COMPTON COLLEGE
STUDENT SERVICES BUILDING
COMPTON COMMUNITY COLLEGE DISTRICT

1111 E. ARTESIA BLVD., COMPTON, CA

DSA BACK-CHECK
09/03/2019

VICINITY MAP

AREA MAP

NORTH

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tBP
Architecture
Planning
Interiors

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-119686 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/14/2019

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architect

consultant

COMPTON COLLEGE
STUDENT SERVICES BLDG.
COMPTON COMMUNITY COLLEGE DISTRICT
1111 E. ARTESIA BLVD.
COMPTON, CA 90221

owner

tBP project number: 20987.00
file name: CC_SS_Central.RVT
drawn by: Z. WEN checked by: T. HALL
date: 9.3.2019

rev:	date:	description:

drawing title:
COVER SHEET

drawing no.:
T-1

ABBREVIATIONS

&	AND	EA.	EACH	LAB.	LABORATORY	S	SEALER
∠	ANGLE	EL	EASEMENT LINE	LAV.	LAVATORY	S.B.	SPLASH BLOCK
@	AT	E.J.	EXPANSION JOINT	LB.	POUND	SC	SOLID CORE
℄	CENTERLINE	ELEC.	ELECTRICAL	LDG	LANDING	SCN	SOLID CORE
Ø	DIAMETER OR ROUND	ELEV.	ELEVATION	LL	LIVE LOAD	S.C.	SOLID CORE
#	NUMBER	EMER.	EMERGENCY	LT	LIGHT	SCHED.	SCHEDULE
		ENCL.	ENCLOSURE	LTG	LIGHTING	S.C.	SOLID CORE
		ENG	ENGINEER	LVL	LEVEL	S.C.	SOLID CORE
AB	ANCHOR BOLT	ENGY	ENERGY	LVR	LOUVER	S.D.	STORM DRAIN
AC	ASPHALTIC CONCRETE	ENTR	ENTRANCE			SECT.	SECTION
ACT	ACOUSTICAL TILE	EP	EPOXY ENAMEL	M	METER	SF	STAIN FINISH
ACOUS	ACOUSTICAL	EPG	EPOXY PAINT GLOSS	MAINT	MAINTENANCE	SFL	
AD	AREA DRAIN	EPSG	EPOXY PAINT SEMI-GLOSS	MAN	MANUAL	SFV	
ADH	ADHESIVE	EQ.	EQUAL	MAS	MASONRY	SHT.	SHEET
ADJ	ADJACENT	EQUIP.	EQUIPMENT	MATL.	MATERIAL	SIM.	SIMILAR
AESS	ARCHITECTURAL EXPOSED STRUCTURAL STEEL	EST.	ESTIMATE	MAX.	MAXIMUM	SPEC.	SPECIFICATIONS
		E.W.C.	ELECTRIC WATER COOLER	M.C.	MEDICINE CABINET	SPLY	SUPPLY
AFF	ABOVE FINISH FLOOR	EWH	ELECTRIC WATER HEATER	MCC	MOTOR CONTROL CENTER	SQ.	SQUARE
AFP	ACCORDIAN FOLDING PARTITION	EXH	EXHAUST	MECH.	MECHANICAL	SR	STEAM RETURN
AGGR	AGGREGATE	EXIST., (E)	EXISTING	MED	MEDIUM	SS	STEAM SUPPLY
ALT	ALTERNATE	EXP.	EXPANSION	MEZZ	MEZZANINE	S.SK.	SERVICE SINK
ALUM	ALUMINUM	EXT.	EXTERIOR	MFR.	MANUFACTURER	SST.	STAINLESS STEEL
AMP	AMPERE			MH	MANHOLE	ST	STREET
ANOD	ANODIZED	F	FACTORY FINISH	MIN.	MINIMUM	STAG	STAGGERED
APPROX	APPROXIMATELY	F.A.	FIRE ALARM	MIR	MIRROR	STC	
ARCH	ARCHITECT	FC	FOOTCANDLE	MISC.	MISCELLANEOUS	STD.	STANDARD
ASB	ASBESTOS	F.D.	FLOOR DRAIN	MKR	MARKER	STL.	STEEL
ASSY	ASSEMBLY	FDC	FIRE DEPARTMENT CONNECTION	MTL.	METAL	STM	STEAM
		FDN	FOUNDATION	MTD.	MOUNTED	STOR	STORAGE
BAT	BATTERY	F.E.	FIRE EXTINGUISHER	MUL	MULLION	STRUCT.	STRUCTURAL
BBD	BULLETIN BOARD	F.E.C.	FIRE EXTINGUISHER CABINET	MVBL	MOVABLE	SURF	SURFACE
BD	BOARD	FFP	FOLDING FABRIC PARTITION			SUSP.	SUSPENDED
BLDG	BUILDING	F.G.	FINISH GRADE	N.	NORTH	SWBD	SWITCHBOARD
BLKG	BLOCKING	F.H.	FIRE HYDRANT	NAT.	NATURAL	SWGR	SWITCHGEAR
BLO	BLOWER	FIN.	FINISH	NEG.	NEGATIVE	SWR	SEWER
BLR	BOILER	FIN. FLR.	FINISH FLOOR	N.I.C.	NOT IN CONTRACT	SYM.	SYMBOL
BLW	BELOW	FLASH.	FLASHING	NO.	NUMBER	SYS	SYSTEM
BM	BEAM	FLR.	FLOOR	NOM.	NOMINAL		
BO	BOTTOM OF	FLUOR.	FLUORESCENT	N.T.S.	NOT TO SCALE	T.	THERMOSTAT
BRKR	BREAKER	F.O.	FACE OF			T. & B.	TOP AND BOTTOM
BUR	BUILT UP ROOF	F.O.C.	FACE OF CONCRETE	O.A.	OVERALL	T. & G.	TONGUE AND GROOVE
BTU	BRITISH THERMAL UNIT	F.O.F.	FACE OF FINISH	OBS.	OBSCURE	T.C.	TOP OF CURB
		F.O.S.	FACE OF STUD	O.C.	ON CENTER	TCN	TOP OF CONCRETE
CAB	CABINET	FPP	FOLDING PANEL PARTITION	O.D.	OUTSIDE DIAMETER	TG	TOP OF GRATE
CARP	CARPET	FPW	FOLDING PANEL WOOD DOOR	O.F.	OVERFLOW DRAIN	TW	TOP OF WALL
CAT	CATALOG	F.R.A.	FIRE RATED ASSEMBLY	OFCI	OWNER FURNISHED-CONTRACTOR INSTALLED		
CB	CATCH BASIN	F.R.P.	FIBERGLASS REINFORCED PANEL			TD	TRENCH DRAIN
CEM	CEMENT	F.S.	FLOOR SINK	OFF	OFFICE	TECH	TECHNICAL
CF	CURB FACE	FT.	FOOT OR FEET	OFOI	OWNER FURNISHED-OWNER INSTALLED	TEL.	TELEPHONE
CFM	CUBIC FEET PER MINUTE	FTG.	FOOTING	OPNG.	OPENING		
CHBD	CHALKBOARD	FURR.	FURRING	OPP.	OPPOSITE	TEMP.	TEMPERATURE
CHEM	CHEMICAL	FXTR	FIXTURE	OVHD	OVERHEAD	THK	THICK
CHWR	CHILLED WATER RETURN					THRES.	THRESHOLD
CHWS	CHILLED WATER SUPPLY	GA	GAGE	PART.	PARTITION	THRU	THROUGH
CI	CAST IRON	GALV.	GALVANIZED	PB	PULL BOX	TKBD	TACKBOARD
CIR	CIRCLE	GB	GRAB BAR	PBD	PARTICLEBOARD	T.O.	TOP OF
CJ	CONTROL JOINT	G.F.R.C.	GLASS FIBER REINFORCED CEMENT	PC	PORTLAND CEMENT	T.O.C.	TOP OF CONCRETE
CL	CENTERLINE	GL.	GLASS			T.O.S.	TOP OF STEEL
CLG	CEILING	GLU.LAM.	GLUE LAMINATED	PERF	PERFORATED	TOT	TOTAL
CLO	CLOSET	GND.	GROUND	PERP	PERPENDICULAR	TR.	TREAD
CLRM	CLASSROOM	GPM	GALLONS PER MINUTE	PE	PAINT EGGSHELL	TRNSF.	TRANSFORMER
CMT	CERAMIC MOSAIC TILE	GR.	GRADE	PF	PAINT FLAT	TYP.	TYPICAL
CMU	CONCRETE MASONRY UNIT	G.R.G.	GLASSFIBREFORCED GYPSUM	PG	PAINT GLOSS		
CND	CONDUIT	GYP.	GYPSUM	PH	PHASE	U	
CO	CLEANOUT			PIV	POST INDICATOR VALVE	UGND	UNDERGROUND
COL	COLUMN			P.L.	PROPERTY LINE	UNFIN.	UNFINISHED
COMM	COMMUNICATION	H.B.	HOSE BIB	PLAS.	PLASTER	U.N.O.	
COMP	COMPOSITION	HCN	HOLLOW CORE NATURAL FINISH	PLAT.	PLATFORM	U.O.S.	
CONC	CONCRETE	HCP	HOLLOW CORE PAINT FINISH	PLBG	PLUMBING	UPG	
CONF	CONFERENCE	HDBD.	HARDBOARD	PLF	POUNDS PER LINEAR FOOT	UPSG	
CONN	CONNECTION	HDR	HEADER	PLYWD.	PLYWOOD	UR.	URINAL
CONT	CONTINUOUS	HDW.	HARDWARE	PNL	PANEL	UTIL	UTILITY
CONTR	CONTRACTOR	HDWD.	HARDWOOD	POS	POSITIVE		
COORD	COORDINATE	HGT.	HEIGHT	PP	PORTABLE PARTITION	V	VOLT
CORR	CORRIDOR	H.M.	HOLLOW METAL	PR.	PAIR	VAC	VACUUM
COV	COVER	HORIZ.	HORIZONTAL	PREFAB	PREFABRICATED	VAV	VARIABLE AIR VOLUME
CP	CONTROL PANEL	HP	HORSEPOWER	PREFIN	PREFINISHED	V.C.T.	
CR	CONDENSATE RETURN	HR.	HOUR	PRELIM	PRELIMINARY	V.I.F.	VERIFY IN FIELD
CSWK	CASEWORK	HSTAT	HUMIDISTAT	PROJ	PROJECT	VERT.	VERTICAL
CT	CERAMIC TILE	HTG.	HEATING	PSF	POUNDS PER SQUARE FOOT	VEST.	VESTIBULE
CTV	CABLE TELEVISION	HTWR	HOT WATER RETURN	PSG	PAINT SEMI-GLOSS	W	WATT
CW	COLD WATER	HTWS	HOT WATER SUPPLY	PSI	POUNDS PER SQUARE INCH	W/	WITH
		HVAC	HEATING, VENTILATING, AIR CONDITIONING	PVC	POLYVINYL CHLORIDE	W.C.	WATER CLOSET
DBL	DOUBLE					WD.	WOOD
DEMO	DEMOLITION	HVY	HEAVY	Q.T.	QUARRY TILE	WDW.	WINDOW
DEPT	DEPARTMENT	HW	HOT WATER	QTY	QUANTITY	WHSE	WAREHOUSE
DET	DETAIL					WL	WIND LOAD
DF	DRINKING FOUNTAIN	I.D.	INSIDE DIAMETER	R.	THERMAL RESISTANCE	WLD	WELDED
DIA	DIAMETER	INSUL.	INSULATION	RAD.	RADIUS	WP	WORKING POINT
DIM	DIMENSION	INT.	INTERIOR	R.D.	ROOF DRAIN	WPG	WATERPROOFING
DISP.	DISPENSER	INV.	INVERT	RDWD.	REDWOOD	WR	WATER RESISTANT
DIST.	DISTANCE	IW	IRRIGATION WATER	REF.	REFERENCE	WSCT.	WAINSCOT
DIV.	DIVISION	JAN.	JANITOR	REFR.	REFRIGERATOR	WT	WEIGHT
D.L.	DEAD LOAD	JCT.	JUNCTION	REG.	REGISTER	W.W.F.	WELDED WIRE FABRIC
DN.	DOWN	JT.	JOINT	REINF.	REINFORCING		
DS.	DOWN SPOUT			REQD.	REQUIRED	XFMR	TRANSFORMER
DWG.	DRAWING	K	KIP (1000 LB)	RESIL	RESILIENT		
		KIT.	KITCHEN	RET	RETURN		
		KO	KNOCKOUT	REV.	REVERSE		
		KVA	KILOVOLT AMPERE	RFG	ROOFING		
				RM.	ROOM		
				R.O.	ROUGH OPENING		

SHEET INDEX

I find that: ☒ All drawings or sheets listed on the cover or index sheet
☐ This drawing or page

☒ Is/are in general conformance with the project design, and
☒ has/have been coordinated with the project plans and specifications

02.28.2019
Signature Date
Architect or Engineer designated to be in general responsible charge

HUNG CHENG
Print Name

C34187 4/30/2021
License Number Expiration Date

☐ Is/are in general conformance with the project design intent, and
☐ has/have been coordinated with the project plans and specifications.

Signature Date
Architect or Engineer delegated responsibility for this portion of the work

Print Name

License Number Expiration Date

Statement of General Conformance
FOR ARCHITECTS/ENGINEERS WHO UTILIZE PLANS,

INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS

(Application No. 03-119686 File No. 19-C1

☒ The drawings or sheets listed on the cover or index sheet
☒ The drawing, page of specifications/calculations

have been prepared by other design professionals or consultants who are licensed and/or authorized to prepare such drawings in this state. It has been examined by me for:

1) design intent and appears to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications prepared by me, and

2) coordination with my plans and specifications and is acceptable for incorporation into the construction of this project.

This Statement of General Conformance "shall not be construed as relieving me of my rights, duties, and responsibilities under Sections 17302 and 81138 of the Education Code and Sections 4-336, 4-341 and 4-344" of Title 24, Part 1. (Title 24, Part 1, Section 4-317 (b))

GENERAL NOTES

1.0 General

1.1 Fire Stopping: Maintain integrity of fire rated walls by providing firestopping material at gaps and voids created by penetrations, structural members, and intersections with adjacent surfaces.

2.0 Site

3.0 Exterior Walls

3.1 Exterior stud walls shall be 600S162-54 metal studs at 16" o.c. per structural drawing, unless noted otherwise.

3.2 All exterior stud walls to be constructed on 3-1/2" high minimum raised concrete curbs, unless detailed otherwise.

3.3 The interior side of all exterior walls shall 5/8" gyp. bd., full-height to the underside of the floor and roof above. The room side shall receive finishes as scheduled.

4.0 Interior Partitions

4.1 Interior partitions shall be 4" x 18 ga. metal studs at 16" o.c. with fulll-height gypsum board both sides, unless noted otherwise.

4.2 All partitions surrounding and between restrooms shall be constructed on 6" minimum concrete curbs.

7.0 Roofing, Insulation, and Waterproofing

7.1 All exterior stud walls shall be insulated with R-19 batt insulation.

7.2 All roofs shall be insulated with R-30 rigid insulation, unless noted otherwise.

7.3 All interior stud partitions shall have 3-1/2" thick sound batt insulation, unless noted otherwise.

8.0 Doors

8.1 Access Doors- Provide metal access doors in partitions and hard ceilings at the location of all building elements which require access. Building elements specifically requiring access include all fire dampers, volume dampers, filters, valves, fusible links, mechanical and electrical junction boxes. Provide additional access doors where shown or scheduled.

PROJECT DESCRIPTION

THE PROJECT SCOPE OF WORK INCLUDES:

1. DEMOLITION OF AN EXISTING ONE STORY BUILDING "B", REMOVAL OF AN EXISTING RELOCATABLE BUILDING, AND ADJACENT EXISTING SITE HARDSCAPE AND LANDSCAPE WITHIN THE LIMITS OF WORK FOR THIS PROJECT.
2. CONSTRUCTION OF A NEW TWO STORY, 34,441 SF, STEEL FRAMED BUILDING AND ASSOCIATED UTILITIES, STORM DRAIN, LANDSCAPE, IRRIGATION AND OTHER SITE DEVELOPMENT WITHIN THE LIMITS OF WORK FOR THIS PROJECT.

PROJECT DIRECTORY

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REFERENCE SYMBOLS

SECTION REFERENCE
4 / A3-3
NUMBER ABOVE - SECTION NUMBER
NUMBER BELOW - SHEET NUMBER

ELEVATION REFERENCE
4 / A3-3
NUMBER ABOVE - ELEVATION NUMBER
NUMBER BELOW - SHEET NUMBER

DETAIL REFERENCE
3 / 7.11
NUMBER ABOVE - DETAIL NUMBER
NUMBER BELOW - SHEET NUMBER

ROOM IDENTIFICATION
1 — SPACE NUMBER
4 103 A3-2 2 — INTERIOR ELEVATION NUMBER
3 — SHEET NUMBER OF INTERIOR ELEVATION

INTERIOR ELEVATION IDENTIFICATION
106 2 — WALL VIEWED
— SPACE NUMBER

ACCESSORY IDENTIFICATION
13 — DENOTES TOILET ROOM ACCESSORIES

CASEWORK IDENTIFICATION
HEIGHT
34 24 — DEPTH
102 — CASEWORK MODEL
48 — WIDTH
L — LOCK

DOOR IDENTIFICATION
001 REFER TO DOOR SCHEDULE

WINDOW IDENTIFICATION
10 REFER TO WINDOW DETAILS

COLOR REFERENCE
LP-1 REFER TO COLOR SCHEDULE SHEET 9.00

WALL TYPES

MASONRY WALL

METAL STUD PARTITION WALL

WALL - 1 HR RATED

METAL STUD PART. WALL - 2 HR RATED

WHEELCHAIR IDENTIFICATION

30" x 48" CLR. FLOOR SPACE
34" MAX. A.F.F. COUNTERTOP
30"W X 27"H X 19"D CLR. KNEE SPACE
MIN.

MATERIAL SYMBOLS

EARTH
STEEL
BATT INSULATION
SAND
WOOD BLOCKING
RIGID INSULATION
CONCRETE
WOOD BLOCKING
LATH AND PLASTER
GROUT
PLYWOOD
GYPSUM BOARD
MASONRY
FINISH WOOD
ACOUSTICAL CEILING BOARD

GENERAL REQUIREMENTS

1. ALL WORK SHALL CONFORM TO TITLE 24, 2016 CALIFORNIA CODE OF REGULATIONS (CCR).

2. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDA OR CHANGE ORDER APPROVED BY THE OFFICE OF THE STATE ARCHITECT, AS REQUIRED BY SECTIONS 4-338, PART 1, TITLE 24, CCR.

3. A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT, SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR. A CLASS 1 INSPECTOR (CONFORMING TO CLASSIFICATION CRITERIA AS PROVIDED IN INTERPRETATION OF REGULATIONS (IR) A-7 DATED SEPTEMBER 18, 2007) WHO IS SPECIALLY QUALIFIED IN MECHANICAL & ELECTRICAL WORK WILL BE REQUIRED FOR THIS PROJECT.

4. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE SCHOOL BOARD SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.

5. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

DEFERRED APPROVAL

THE FOLLOWING ITEMS SHALL NOT BE INSTALLED UNTIL SIGNED ENGINEERING CALCULATIONS, DETAILED PLANS, SPECIFICATIONS AND EQUIPMENT SUBMITTALS HAVE BEEN SUBMITTED, REVIEWED AND APPROVED BY THE ENGINEER, ARCHITECT, AND BY THE DIVISION OF STATE ARCHITECT:

1. ELEVATOR GUIDE RAILS AND BRACKETS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
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LICENSED ARCHITECT · HUNG CHENG · C34187 · STATE OF CALIFORNIA

architect

consultant

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COMPTON COMMUNITY COLLEGE DISTRICT
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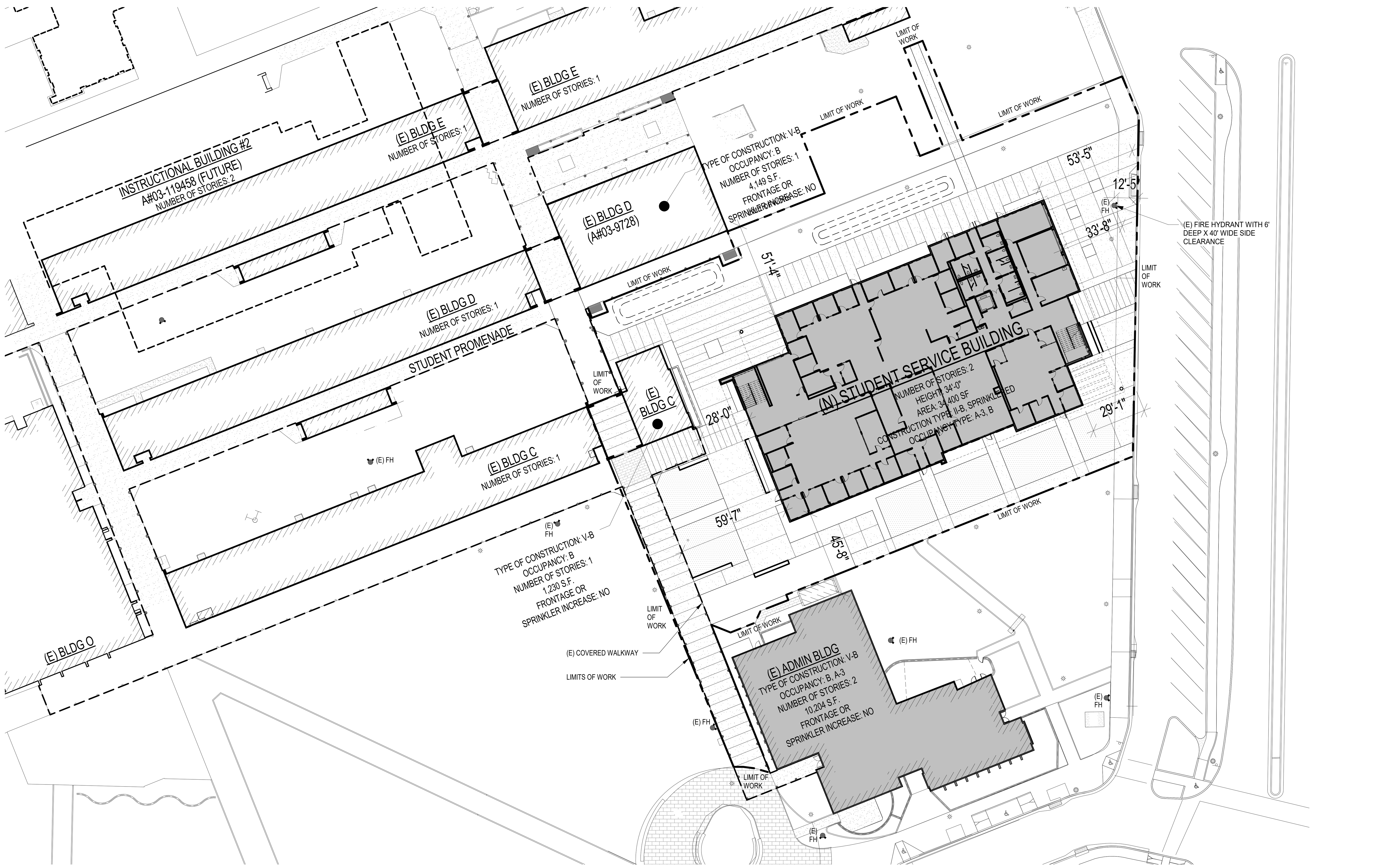
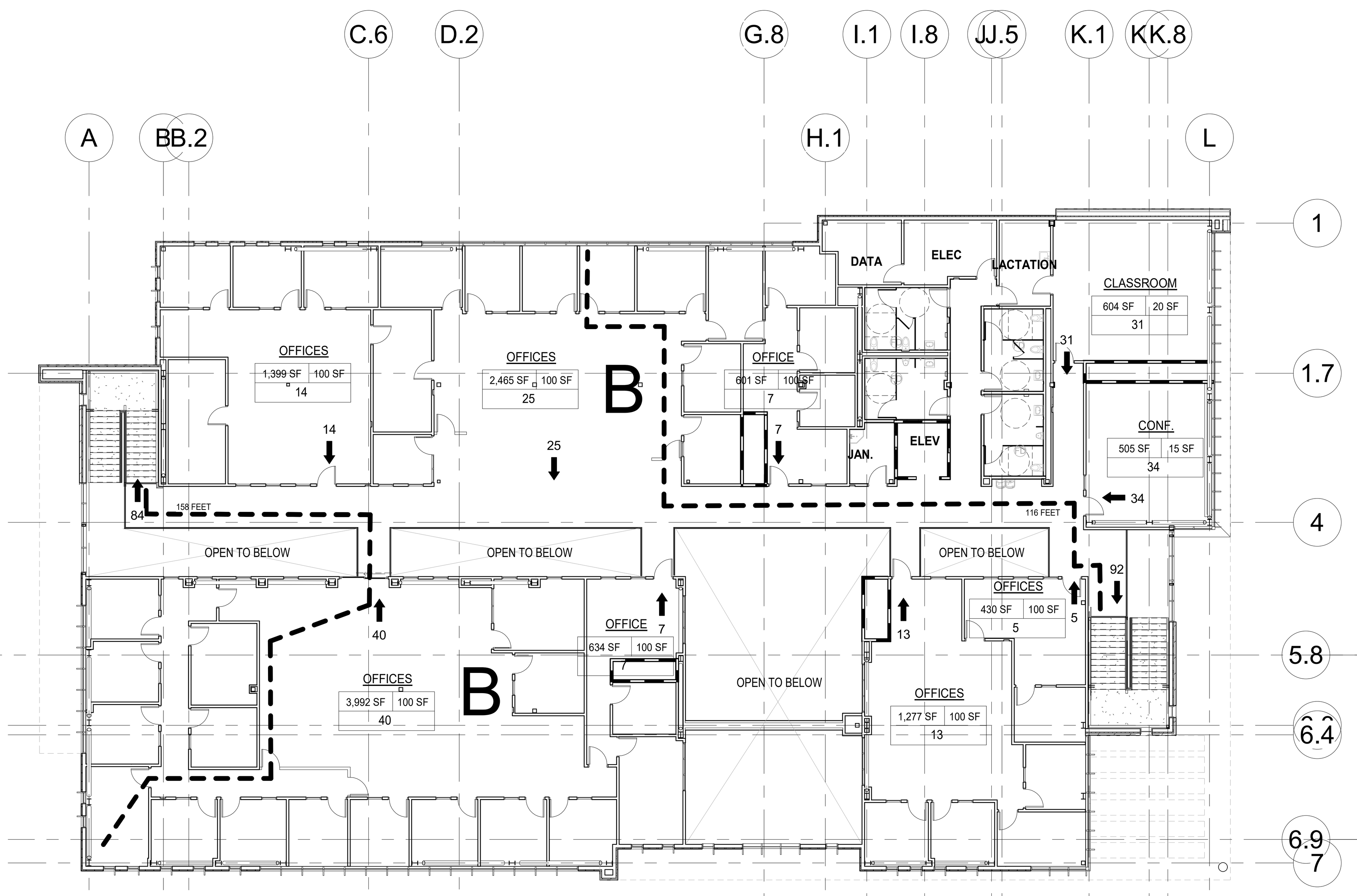
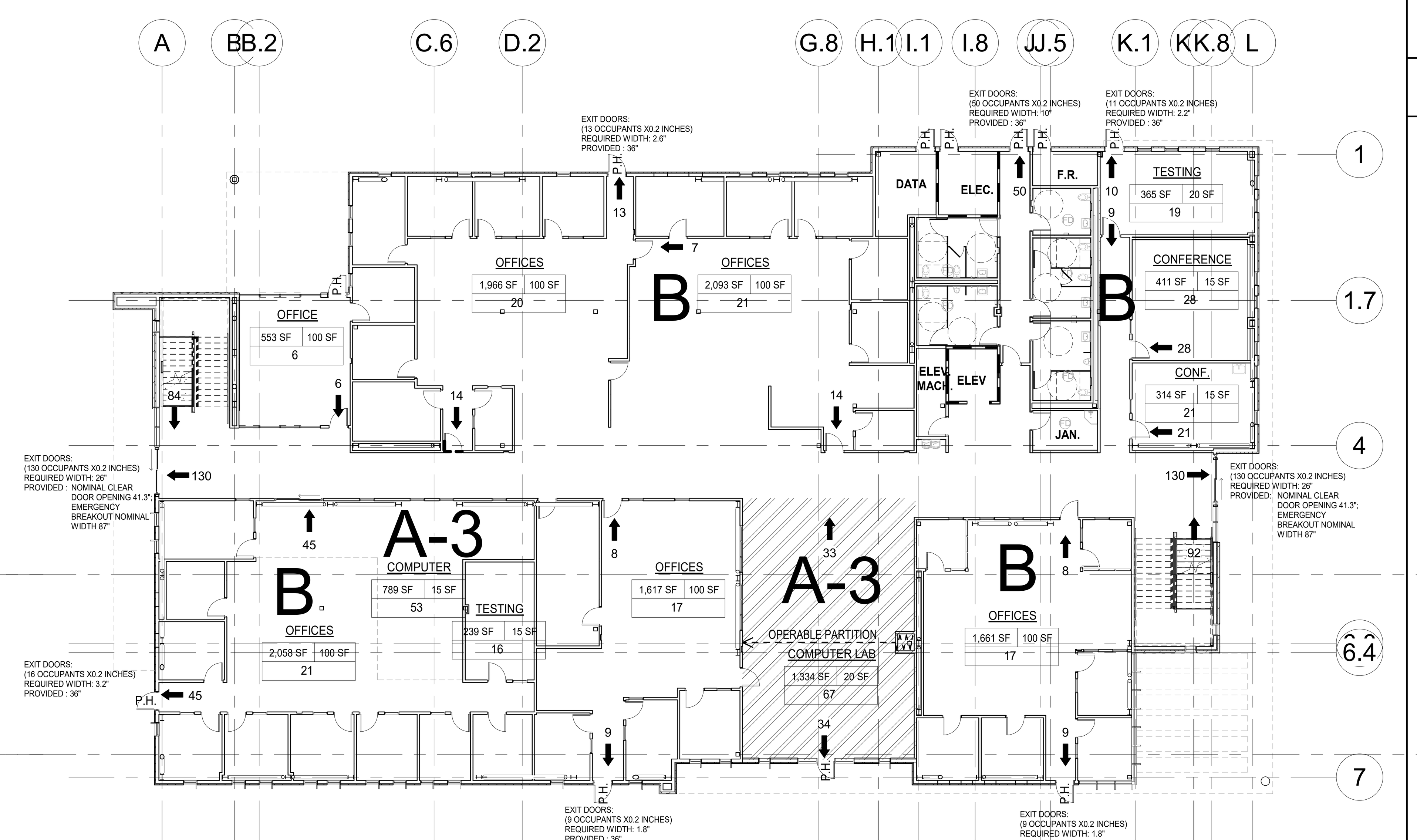
drawing no.:
T-2



CODE ANALYSIS SITE PLAN 4
SCALE 1" = 30'-0"
NORTH



CODE ANALYSIS SECOND FLOOR 2
SCALE 1/16" = 1'-0"
NORTH



CODE ANALYSIS FIRST FLOOR 1
SCALE 1/16" = 1'-0"
NORTH

CODE ANALYSIS

OCCUPANCY GROUPS: A-3 COMPUTER LAB
B OFFICES

CONSTRUCTION TYPE: TYPE II-B, SPRINKLERED

ALLOWABLE HEIGHT PER TABLE 504	ALLOWABLE	ACTUAL
NUMBER OF STORIES	2	2
BUILDING HEIGHT	55'-0"	34'-0"

ALLOWABLE BUILDING AREA - FIRST FLOOR	FIRST FLR	SECOND FLR	TOTAL
BASIC ALLOWABLE AREA A(t) PER TABLE 506.2 & SEC. 506.2.4 (UN-SEPARATED OCCUPANCIES-BASED ON A-3)	28,500 S.F.	28,500 S.F.	
FRONTAGE INCREASE	N/A	N/A	
ALLOWABLE AREA A(a) = A(t) + [NS x I(f)] x S(a) = [28,500 S.F. + (9,500x0)] x 2 = 57,000 S.F. A(t) = tabular allowable area factors (SM w/o height increase) per table 506.2 (A-3 OCCUPANCY)(TYPE IIB) = 28,500 S.F. NS = tabular allowable area factor in accordance w/ table 506.2 for a non sprinklered building) = 9,500 S.F. I(f) = area factor increase due to frontage (percent) as calculated in accordance with section 506.3. = [F/P-0.25]W/30 = 0 (NO FRONTAGE INCREASE) F = Building perimeter that fronts on a public way or open space having a min. dist. of 20 ft P = Perimeter of the entire building (feet). W = Width of public way or open space (ft) per section 506.3.2	28,500 S.F.	28,500 S.F.	57,000 S.F.
ACTUAL BUILDING AREA	18,709 S.F.	15,731 S.F.	34,440 S.F.
ANALYZE	18,709<28,500 OK	15,731<28,500 OK	34,440<57,000 OK

FIRE RESISTANCE OF EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE (TABLE 602)	
WEST STAIR WALL 10 ≤ FIRE SEPARATION DISTANCE < 30'	0 HR.
TYPICAL FIRE SEPARATION DISTANCE > 30'	0 HR.

FIRE RESISTANCE RATING REQUIREMENTS FOR TYPE II-B CONSTRUCTION (TABLE 601)	
STRUCTURAL FRAME	0 HR.
EXTERIOR NON-BEARING WALLS	TABLE 602 (0-HR > 10')
INTERIOR NON-BEARING PARTITIONS	0 HR.
FLOOR CONSTRUCTION	0 HR.
ROOF CONSTRUCTION	0 HR.
SHAFT ENCLOSURES PER 713	0 HR.

MAXIMUM AREA OF EXTERIOR WALL OPENINGS BASED ON FIRE SEPARATION DISTANCE (TABLE 705.8)	
FIRE SEPARATION DISTANCE > 20'	NO LIMIT

LEGEND

OCCUPANT LOAD FACTOR
AREA
465 SF | 20
25
NO. OF OCCUPANTS
OCCUPANT LOAD SYMBOL

5
NUMBER OF OCCUPANTS EXITING

EXIT ACCESS TRAVEL DISTANCE

COMMON PATH OF EXIT TRAVEL

ASSUMED LOT LINE

ONE-HOUR RATED WALLS

P.H. PANIC HARDWARE

APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2017*

2016 CALIFORNIA ADMINISTRATIVE CODE (C.A.C.), PART 1, TITLE 24 C.C.R.*

2016 CALIFORNIA BUILDING CODE (C.B.C.), PART 2, TITLE 24 C.C.R.
(2015 INTERNATIONAL BUILDING CODE VOL. 1-2 AND 2016 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA ELECTRICAL CODE (C.E.C.), PART 3, TITLE 24 C.C.R.
(2014 NATIONAL ELECTRICAL CODE AND 2016 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA MECHANICAL CODE (C.M.C.), PART 4, TITLE 24 C.C.R.
(2015 IAPMO UNIFORM MECHANICAL CODE AND 2016 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA PLUMBING CODE (C.P.C.), PART 5, TITLE 24 C.C.R.
(2015 IAPMO UNIFORM PLUMBING CODE AND 2016 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA ENERGY CODE (C.E.C.), PART 6, TITLE 24 C.C.R.

2016 CALIFORNIA FIRE CODE (C.F.C.), PART 9, TITLE 24 C.C.R.
(2015 INTERNATIONAL FIRE CODE AND 2016 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 C.C.R.
(2015 INTERNATIONAL EXISTING BUILDING CODE AND 2016 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 C.C.R.

2016 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 C.C.R.

2013 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALTORS

TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13	INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED)	2016 EDITION
NFPA 14	INSTALLATION OF STANDPIPE AND HOSE SYSTEMS	2013 EDITION
NFPA 17	DRY CHEMICAL EXTINGUISHING SYSTEMS	2013 EDITION
NFPA 17A	WET CHEMICAL EXTINGUSHING SYSTEMS	2013 EDITION
NFPA 20	INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION	2016 EDITION
NFPA 22	WATER TANKS FOR PRIVATE FIRE PROTECTION	2013 EDITION
NFPA 24	STANDARD FOR THE INSTALLATION OF PRIVATE FIRE MAINS AND THEIR APPURTENANCES	2016 EDITION
NFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED)	2016 EDITION
NFPA 80	STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES	2016 EDITION
NFPA 2001	STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	2015 EDITION
UL 300	STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT	2005 (R2010)
UL 464	AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES	2003 EDITION
UL 521	STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS	1999 EDITION
UL 1971	STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED	2002 EDITION
ICC 300	STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS	2012 EDITION

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS, REFER TO 2016 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.

SEE CALIFORNIA BUILDING CODE, CHAPTER 35, FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

*ALL PARTS OF THE 2016 CALIFORNIA BUILDING CODE BECOME EFFECTIVE JANUARY 1, 2017 EXCEPT THE EFFECTIVE DATE FOR THE USE OF THE 2016 BUILDING ENERGY EFFICIENCY STANDARDS (TITLE 24, PART 1, CHAPTER 10) IS FEBRUARY 25, 2016 AND THE EFFECTIVE DATE FOR THE USE OF THE CALIFORNIA ADMINISTRATIVE CDE (TITLE 24, PART 1, CHAPTER 4) IS JANUARY 20, 2016.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-119686 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/14/2019

DIVISION OF THE STATE ARCHITECT
WELLS FARGO CENTER - SOUTH TOWER
355 SOUTH GRAND AVENUE, SUITE 2100
LOS ANGELES, CA 90071
ph:(213) 897-3995 fx:(213) 897-3159/0726
agency

tBP
architecture
planning
interiors

LICENSED ARCHITECT
HUNG L. CHENG
NO. C34187
REN. 4-30-21
STATE OF CALIFORNIA

tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895
architect

consultant

COMPTON COLLEGE
STUDENT SERVICES BLDG.

COMPTON COMMUNITY COLLEGE DISTRICT
1111 E. ARTESIA BLVD.
COMPTON, CA 90221

owner

tBP project number: 20987.00

file name: CC_SS_Central.RVT

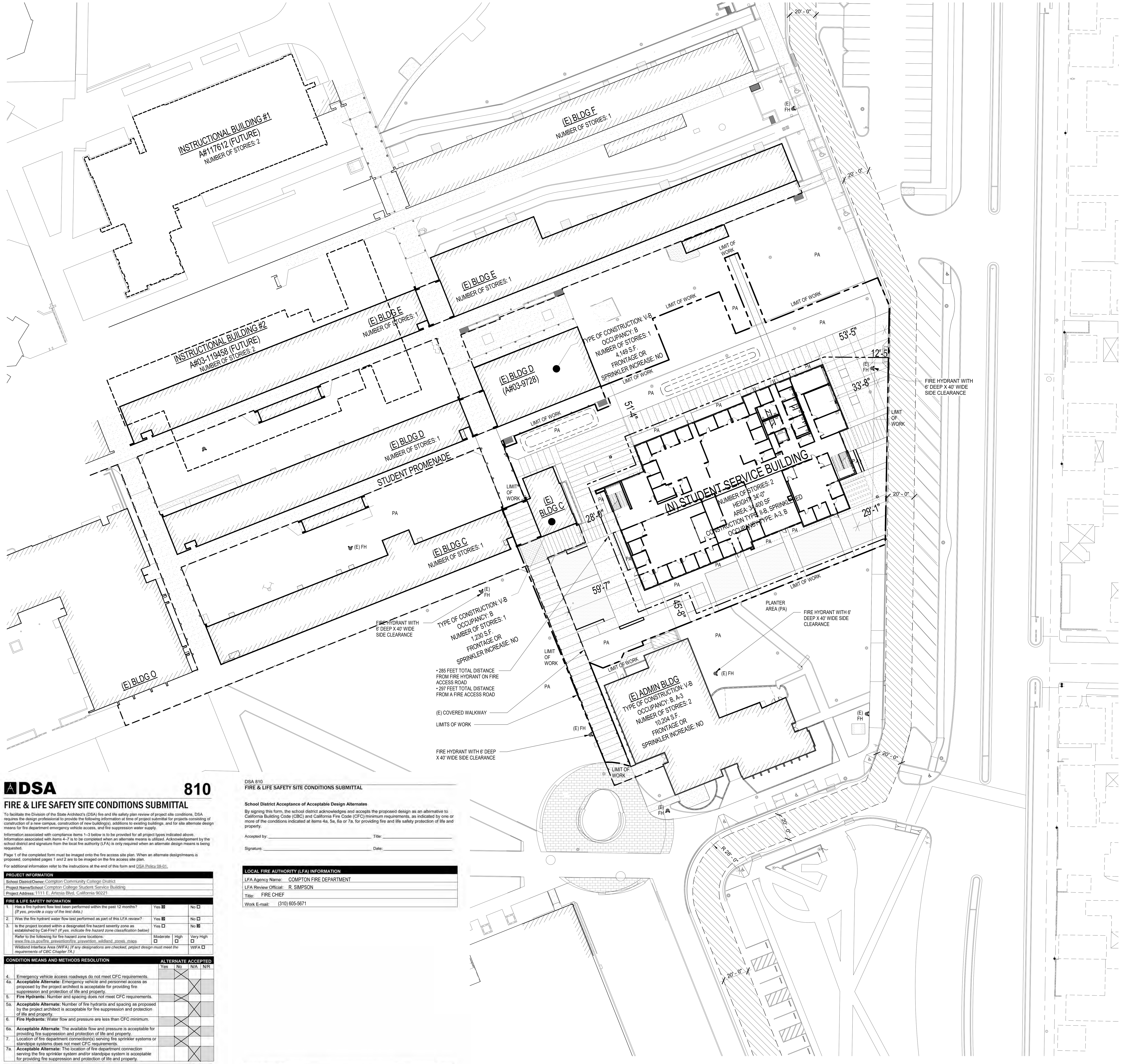
drawn by: Z. WEN checked by: T. HALL

date: 9.3.2019

rev:	date:	description:

drawing title:
CODE ANALYSIS

drawing no.:
T-3



SITE PLAN - FIRE ACCESS 1
SCALE 1" = 30'-0"

![DSA]

DSA 810

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new building(s), additions to existing buildings, and for site alternate design means for fire department emergency vehicle access, and fire suppression water supply.

Information associated with compliance items 1–3 below is to be provided for all project types indicated above. Information associated with items 4–7 is to be completed when an alternate means is utilized. Acknowledgement by the school district and signature from the local fire authority (LFA) is only required when an alternate design means is being requested.

Page 1 of the completed form must be imaged onto the fire access site plan. When an alternate design/means is proposed, completed pages 1 *and* 2 are to be imaged on the fire access site plan.

For additional information refer to the instructions at the end of this form and DSA Policy 09-01.

PROJECT INFORMATION
School District/Owner: Compton Community College District
Project Name/School: Compton College Student Service Building
Project Address: 1111 E. Artesia Blvd, California 90221

FIRE & LIFE SAFETY INFOMATION				
1.	Has a fire hydrant flow test been performed within the past 12 months? *(If yes, provide a copy of the test data.)*	Yes ☒		No ☐
2.	Was the fire hydrant water flow test performed as part of this LFA review?	Yes ☒		No ☐
3.	Is the project located within a designated fire hazard severity zone as established by Cal-Fire? *(If yes, indicate fire hazard zone classification below)*	Yes ☐		No ☒
	Refer to the following for fire hazard zone locations: www.fire.ca.gov/fire_prevention/fire_prevention_wildland_zones_maps	Moderate ☐	High ☐	Very High ☐
	Wildland Interface Area (WIFA) *(If any designations are checked, project design must meet the requirements of CBC Chapter 7A.)*			WIFA ☐

CONDITION MEANS AND METHODS RESOLUTION		ALTERNATE ACCEPTED			
		Yes	No	N/A	N/R
4.	Emergency vehicle access roadways do not meet CFC requirements.		X		
4a.	**Acceptable Alternate:** Emergency vehicle and personnel access as proposed by the project architect is acceptable for providing fire suppression and protection of life and property.			X	
5.	**Fire Hydrants:** Number and spacing does not meet CFC requirements.		X		
5a.	**Acceptable Alternate:** Number of fire hydrants and spacing as proposed by the project architect is acceptable for fire suppression and protection of life and property.			X	
6.	**Fire Hydrants:** Water flow and pressure are less than CFC minimum.		X		
6a.	**Acceptable Alternate**: The available flow and pressure is acceptable for providing fire suppression and protection of life and property.			X	
7.	Location of fire department connection(s) serving fire sprinkler systems or standpipe systems does not meet CFC requirements.		X		
7a.	**Acceptable Alternate:** The location of fire department connection serving the fire sprinkler system and/or standpipe system is acceptable for providing fire suppression and protection of life and property.			X	

DSA 810 (rev 10-22-18) Page 1 of 4
DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES STATE OF CALIFORNIA

DSA 810
FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

School District Acceptance of Acceptable Design Alternates

By signing this form, the school district acknowledges and accepts the proposed design as an alternative to California Building Code (CBC) and California Fire Code (CFC) minimum requirements, as indicated by one or more of the conditions indicated at items 4a, 5a, 6a or 7a, for providing fire and life safety protection of life and property.

Accepted by: ______________________ Title: ______________

Signature: ______________________ Date: ______________

LOCAL FIRE AUTHORITY (LFA) INFORMATION
LFA Agency Name: COMPTON FIRE DEPARTMENT
LFA Review Official: R. SIMPSON
Title: FIRE CHIEF
Work E-mail: (310) 605-5671

DSA 810 (rev 10-22-18) Page 2 of 4
DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES STATE OF CALIFORNIA

FIRE ACCESS AND HYDRANTS

EXISTING (E) 20'-0" WIDE FIRE DEPARTMENT VEHICULAR ACCESS ROADS W/ 13'-6" MINIMUM UNOBSTRUCTED VERTICAL CLEARANCE PER CFC SECTION 503.2.1.

(E) F.H. — EXISTING (E) FIRE HYDRANT

F.H. — NEW FIRE HYDRANT

CODE AND BUILDING DESCRIPTION

LOCAL FIRE AUTHORITY:	CITY OF COMPTON FIRE DEPARTMENT
GOVERNING AUTHORITY:	CALIFORNIA DIVISION OF THE STATE ARCHITECT (DSA)
GOVERNING CODE:	2016 CALIFORNIA FIRE CODE (CFC) INCLUDING APPENDIXES BB, CC AND D.
BUILDING INFORMATION	
AREA:	34,440 SQUARE FEET
CONSTRUCTION TYPE:	II-B
HEIGHT:	2 STORY, 34'-0" HIGH
FIRE PROTECTION:	FIRE SPRINKLER SYSTEM PER NFPA 13 AND 2016 CBC, FIRE STANDPIPE SYSTEM PER NFPA 14 AND 2016 CBC
FIRE ALARM:	FIRE ALARM SYSTEM PER NFPA 72 AND 2016 CBC & CEC
USE:	COMPUTER LAB, MEETING ROOMS, OFFICES, CLASSROOMS, (GROUP A-3 & B OCCUPANCIES)

FIRE FLOW ANALYSIS

MINIMUM REQUIRED FIRE FLOW AND DURATION FOR SCHOOL BUILDINGS - CFC TABLE BB 105.1

CONSTRUCTION TYPE	FIRE AREA	FIRE FLOW	REQUIRED FIRE FLOW AFTER 25% SPRINKLER REDUCTION	FLOW DURATION
II-B	34,440 SF	3,750 GPM	1,500 GPM	3 HOURS

NUMBER AND DISTRIBUTION OF FIRE HYDRANTS FOR SCHOOL BUILDINGS - CFC TABLE CC105.1

FIRE FLOW REQUIREMENT	MINIMUM NUMBER OF REQUIRED FIRE HYDRANTS	MAXIMUM DISTANCE FROM ANY POINT ON FIRE ACCESS ROAD TO REQUIRED FIRE HYDRANT		
		REQUIRED MAXIMUM DISTANCE	50 FOOT REDUCTION FOR DEAD-END FIRE ACCESS ROAD	MAXIMUM DISTANCE PROVIDED
1,500 GPM	1	250 FEET	200 FEET	LESS THAN 10 FEET

NOTE: AN AVAILABLE FIRE FLOW OF 2,042 GPM @20 PSI WAS RECORDED IN THE DECEMBER 19, 2018 FLOW TEST CONDUCTED BY THE CITY OF COMPTON WATER UTILITY DIVISION.

FIRE ACCESS ROADS ANALYSIS

LOCATION OF FIRE ACCESS ROADS - CFC SECTION 503.1.1

MAXIMUM DISTANCE FROM A FIRE ACCESS ROAD TO ALL PORTIONS OF THE PROPOSED BUILDING	
PER SECTION 503.1.1	INCREASE IN DISTANCE AS ALLOWED PER CFC 503.1.1, EXCEPTION 1 FOR SPRINKLERED BUILDING
150 FEET	297 FEET AS INDICATED ON SITE PLAN

LOCATION OF FIRE HYDRANTS - CFC SECTION 507.5.1

MAXIMUM DISTANCE FROM FIRE HYDRANTS ON FIRE ACCESS ROADS TO ALL PORTIONS OF THE PROPOSED BUILDING	
PER SECTION 507.5.1	MAXIMUM DISTANCE AS INDICATED ON SITE PLAN
400 FEET	285 FEET

FIRE ACCESS ROADS SHALL COMPLY WITH CFC CHAPTER 5 AND APPENDIX D AS FOLLOWS:

- 20 FOOT WIDTH PER SECTION 503.2.1.
- 6 FOOT DEEP x 40 FOOT LONG CLEARANCE AT FIRE HYDRANTS PER FIGURE D103.1.
- DEAD-END HAMMERHEAD WITH 20 FOOT WIDE ROAD PER TABLE D103.4 AND FIGURE D103.1.

FIRE ACCESS NOTES

1. THE FIRE DEPARTMENT ACCESS SIGNAGE SHALL BE INSTALLED PRIOR TO COMMENCING THE NEW CONSTRUCTION WORK TO FACILITATE FIRE DEPARTMENT ACCESS DURING CONSTRUCTION. THIS SIGNAGE SHALL ALSO REMAIN IN PLACE UPON COMPLETION OF CONSTRUCTION AND SHALL BE UPDATED AS NEEDED TO FACILITATE FIRE DEPARTMENT ACCESS.
2. FIRE APPARATUS ACCESS ROADS AND WATER SUPPLY FOR FIRE PROTECTION SHALL BE INSTALLED AND MADE SERVICEABLE PRIOR TO AND DURING THE TIME OF CONSTRUCTION EXCEPT WHEN APPROVED ALTERNATIVE METHODS OF PROTECTION ARE PROVIDED. (SEE CFC SECTION 501.4)
3. FIRE DEPARTMENT VEHICULAR ACCESS ROADS MUST BE INSTALLED AND MAINTAINED IN A SERVICEABLE MANNER PRIOR TO AND DURING THE TIME OF CONSTRUCTION. (CFC SECTION 501.4)
4. FIRE DEPARTMENT VEHICULAR ACCESS ROADS SHALL BE HARDSURFACES AND MAINTAINED TO PROVIDE ACCESS BY FIRE APPARATUS AT ALL TIMES. (CFC SECTION 503.2.3)

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APP. 03-119686 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 10/14/2019

DIVISION OF THE STATE ARCHITECT
WELLS FARGO CENTER - SOUTH TOWER
355 SOUTH GRAND AVENUE, SUITE 2100
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tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895

architect

consultant

COMPTON COLLEGE STUDENT SERVICES BLDG.

COMPTON COMMUNITY COLLEGE DISTRICT
1111 E. ARTESIA BLVD.
COMPTON, CA 90221

owner

tBP project number: 20987.00

file name: CC_SS_Central.RVT

drawn by: Z. WEN checked by: T. HALL

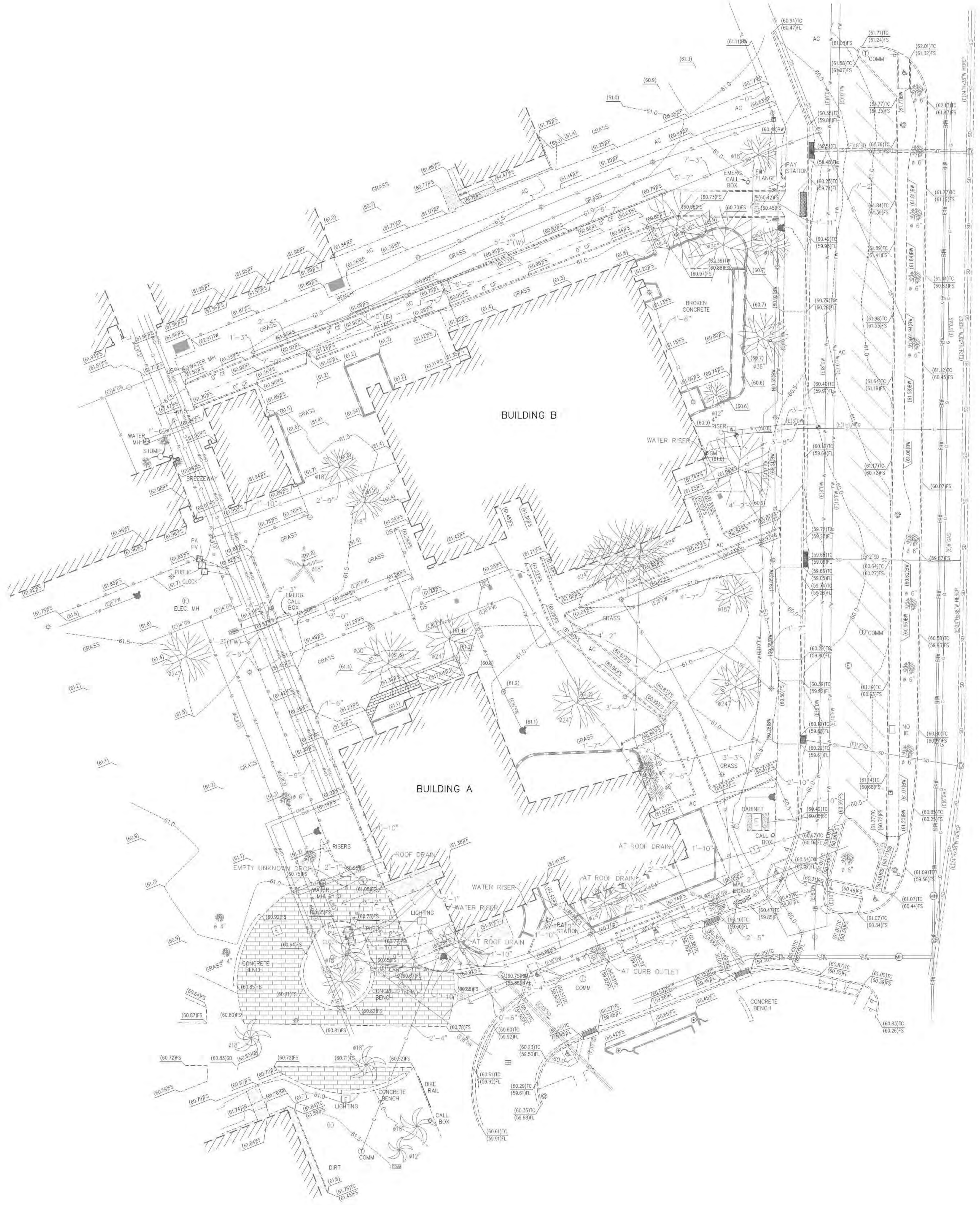
date: 9.3.2019

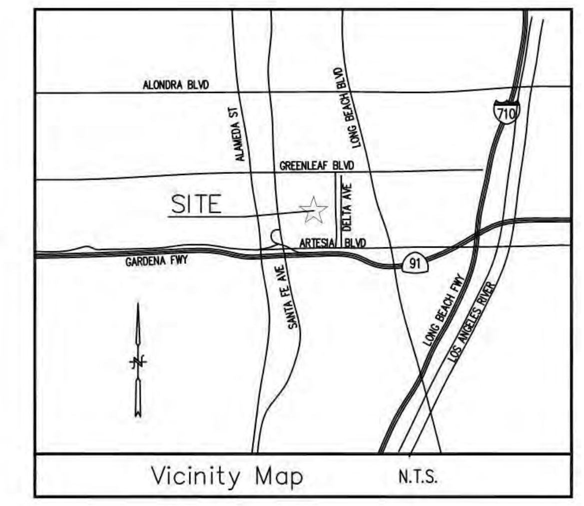
rev: date: description:

drawing title:
FIRE ACCESS SITE PLAN

drawing no.:
T-4

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-119686 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/14/2019



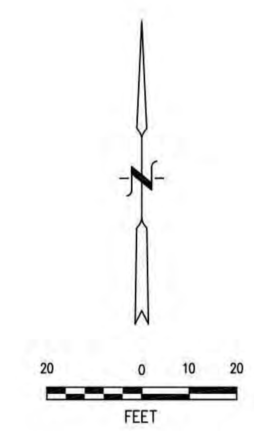


LINETYPE LEGEND

ELECTRICAL	E
GAS	G
COMMUNICATION	C
DOMESTIC WATER	W
FIRE WATER	FW
CHILLED WATER	CHW
SANITARY SEWER	SS
STORM DRAIN	SD
POSSIBLE LINE LOCATION	U
STREET LIGHT	SL
OFFSET FROM REFERENCE	10'-8"
DEPTH FROM SURFACE	1'-6"

LEGEND

●	UTILITY/POWER POLE		SIGNAL PULLBOX	GB	GRADE BREAK
Ⓢ	SEWER MANHOLE		CABLE TV PULLBOX	BFV	BACK FLOW VALVE
Ⓓ	STORM DRAIN MANHOLE		COMMUNICATIONS PULLBOX	BW	BACK OF WALK
Ⓣ	TELEPHONE MANHOLE		UNKNOWN PULLBOX	TW	TOP OF WALL
	FIRE HYDRANT		FIRE DEPT CONNECTION	AC	ASPHALT PAVEMENT
	FLOOD LIGHT		CHAIN LINK FENCE	(12.56)	EXISTING ELEVATION
	HOSE BIB		WOOD FENCE	℄	CENTERLINE
Ⓒ	SEWER CLEANOUT		BLOCK WALL	TPB	TELEPHONE PULL BOX
	WATER VALVE		TREE	EPB	ELECTRIC PULL BOX
	GAS VALVE		PALM		CONCRETE
	WATER METER		PINE	Ⓘ	IRRIGATION VALVE
	GAS METER		BUSH	GP●	GUARD POST
W	WATER VAULT	TE	TRASH ENCLOSURE		CENTERLINE
GV	GAS VAULT	TR	ELECTRICAL TRANSFORMER		PROPERTY LINE
T	TELEPHONE VAULT	FS	FINISHED SURFACE		FLOW LINE
E	ELECTRIC VAULT	FF	FINISHED FLOOR		UTILITY MARKER
SV	SIGNAL VAULT	NG	NATURAL GROUND		GRATE
	MONITORING WELL	TC	TOP OF CURB		HANDICAP
	STREET LIGHT	FL	FLOW LINE		FLAG POLE
	TRAFFIC SIGNAL	TG	TOP OF GRATE	Ⓕ	FIRE SPRINKLER RISER
	PEDESTRIAN BUTTON	TOP	TOP ELEVATION		SURVEY MONUMENT
	GUY WIRE	BTM	BOTTOM ELEVATION		SIGN POST
Ⓡ	RAILROAD SIGNAL		CAR STOP	INV	INVERT
	WATER BLOWOFF VALVE		BENCH	MB	MAIL BOX



REVISIONS

NO.	DESCRIPTION	DATE:	BY:
0	FIRST SUBMITTAL	09/23/17	XS

BASIS OF BEARINGS

THE BASIS OF BEARINGS FOR THIS PROJECT IS NORTH 89° 06' 36" WEST ALONG THE CENTERLINE OF ARTESIA BOULEVARD REFERENCED TO THE NAD83 CALIFORNIA COORDINATE SYSTEM, ZONE 5 GRID, EPOCH 2007.00, DETERMINED LOCALLY BY CONTINUOUSLY OPERATING REFERENCE STATIONS (CORS) OPERATED BY THE CALIFORNIA SPATIAL REFERENCE CENTER.

BENCHMARK

ELEVATION = 62.00' NAVD 88 BASELINE 2005

PREPARED FOR

COMPTON COMMUNITY COLLEGE DISTRICT

PREPARED BY

SALAZAR SURVEYING
1655 E 6TH STREET, SUITE A4A
CORONA, CA 92879
PH (951) 898 - 8328 FAX (951) 898-4732

BOUNDARY & TOPOGRAPHIC SURVEY

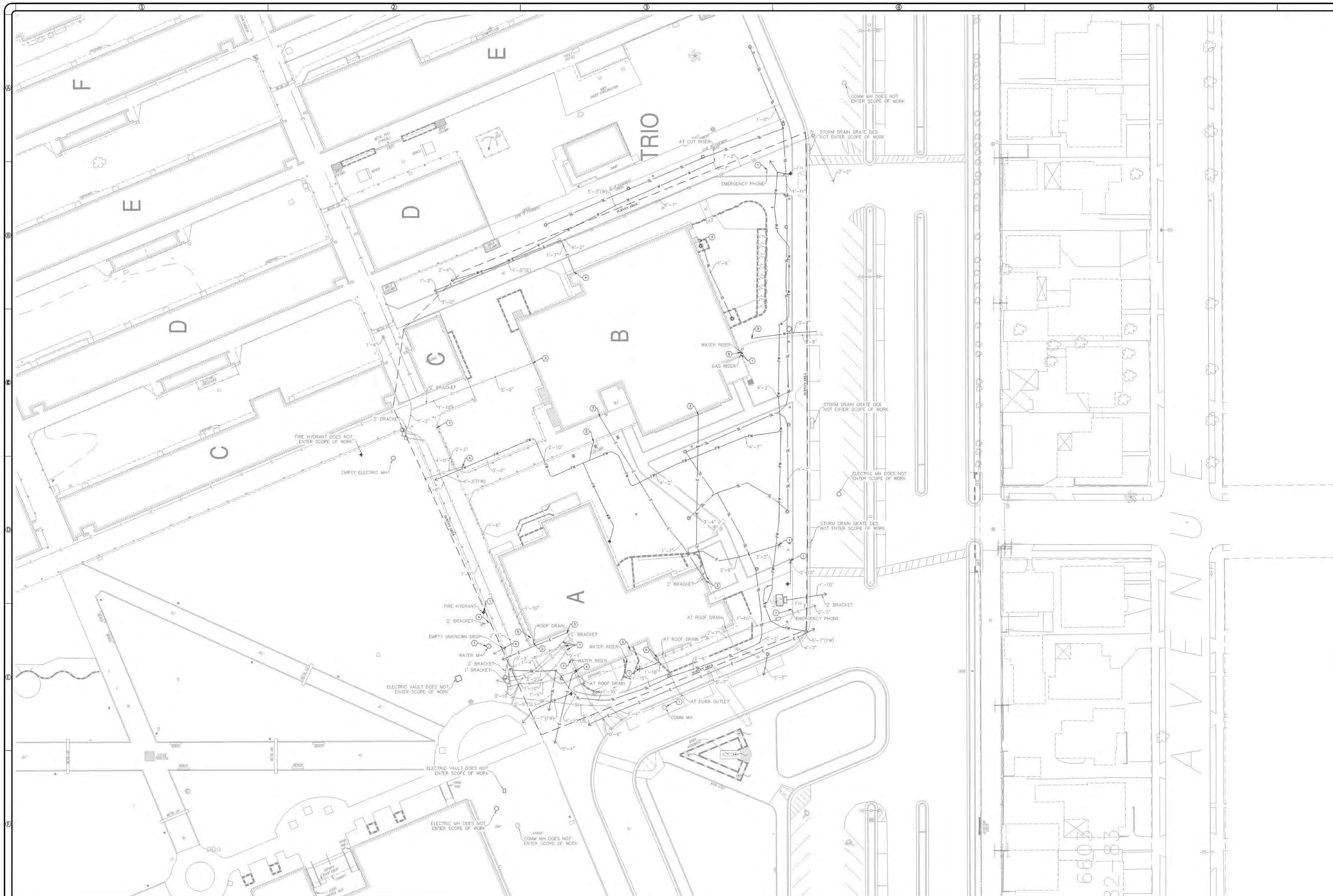
EL CAMINO COLLEGE - COMPTON EDUCATIONAL CENTER
STUDENT SERVICES BUILDING
1111 W. ARTESIA BOULEVARD, COMPTON, CA 90221

DRAWN BY: XS	CHECKED BY: SJS	SCALE: 1" = 20'	DATE: 09/22/17	JOB NO.: SS17039	SHEET 1 OF 1

THIS SURVEY DRAWING BY OTHERS IS INCLUDED FOR REFERENCE ONLY

BOUNDARY & TOPOGRAPHIC SURVEY

T-5



UTILITY NOTES

1. FACILITIES (UTILITY LINES) SHALL BE LOCATED AND MARKED PRIOR TO EXCAVATION. CALL (800) 90-BELOW.
2. CONTRACTOR SHALL HAND-EXPOSE TO A POINT OF NO CONFLICT 24" ON EITHER SIDE OF THE UNDERGROUND FACILITY, REGARDLESS OF THE ESTIMATED DEPTH.
3. DEPTHS SHOWN ARE APPROXIMATE. ESTIMATED DEPTHS ARE FROM THE GROUND SURFACE TO THE CENTER OF THE FACILITY, INVERT OF WASTE LINES, OR TO THE FACILITY TRACER WIRE. DEPTH ESTIMATES SHOULD BE USED WITH CAUTION AND MAY VARY ALONG THE LENGTH OF THE FACILITY.
4. THE SCOPE OF THIS SURVEY DOES NOT INCLUDE FACILITY SIZE OR NUMBER OF CONDUIT IN MULTIPLE CONDUIT RUNS. IRRIGATION LINES ARE NOT INCLUDED IN THIS SURVEY.
5. THE BACKGROUND SITE PLAN USED IN PREPARING THIS MAP WAS PREPARED BY OTHERS AND PROVIDED TO C BELOW BY THE CLIENT. C BELOW MAKES NO REPRESENTATION AS TO THE ACCURACY OF THE PLAN.
6. IN THE EVENT THE INFORMATION SHOWN IN THIS PLAN VARIES FROM THE ACTUAL SITE CONDITIONS, C BELOW SHALL BE NOTIFIED WITHIN 24 HOURS AFTER DISCOVERY OF THE CONFLICT.

LEGEND

ELECTRICAL	E
GAS	G
COMMUNICATION	C
WATER	W
SANITARY SEWER	SS
STORM DRAIN	SD
POSSIBLE LINE LOCATION	U
STREET LIGHT	SL
AIR	AIR
TRAFFIC SIGNAL	TS
FIRE WATER	FW
CHILLED WATER	CHW
DOMESTIC WATER	DW
HOT WATER	HW
OFFSET FROM REFERENCE	10'-8"
DEPTH FROM SURFACE	1'-6"

KEY NOTES

1. NON-CONDUCTIVE, UNABLE TO LOCATE PAST THIS POINT.
2. NO ACCESS, UNABLE TO LOCATE PAST THIS POINT.
3. AT BUILDING
4. AT DROP
5. AT RISER

30 15 0 30 60
SCALE IN FEET
1 inch =30 ft.

C BELOW SUBSURFACE IMAGING
14280 EUCLID AVE
CHINO, CA 91710
GROUND PENETRATING RADAR (GPR)
UTILITY LOCATING
RADIOGRAPHY
POTHOLING
MAPPING
P: 888-902-3569
F: 909-606-6555
www.cbelow.com

NOTES: The services provided by C Below, Inc. do not relieve the Client and/or property owner of the responsibility of having to comply with California Government Code §§4216-4216.9. It is expressly understood by the Client and/or owner that CBSI services are not a substitute for compliance with California Code §§4216-4216.9.

PROJECT:
PARTIAL UNDERGROUND UTILITY MAP FOR:
COMPTON COLLEGE
1111 E. ARTESIA BLVD.
COMPTON, CA 90221

CLIENT:
COMPTON COMMUNITY COLLEGE DISTRICT
1111 E. ARTESIA BLVD.
COMPTON, CA 90221

REVISIONS

NO	DATE	BY	DESCRIPTION

DATE LOCATED:	06/2017
DRAWN BY/DATE:	JP 07/20/2017
TECHNICIAN CHECK BY/DATE:	B. TRAHAN
QC CHECKED BY/DATE:	JP 07/25/2017
SCALE:	1" = 30'
PROJECT NO:	17-0790

SHEET 1 OF 1

UTILITY SURVEY

THIS SURVEY DRAWING BY OTHERS IS INCLUDED FOR REFERENCE ONLY

T-6

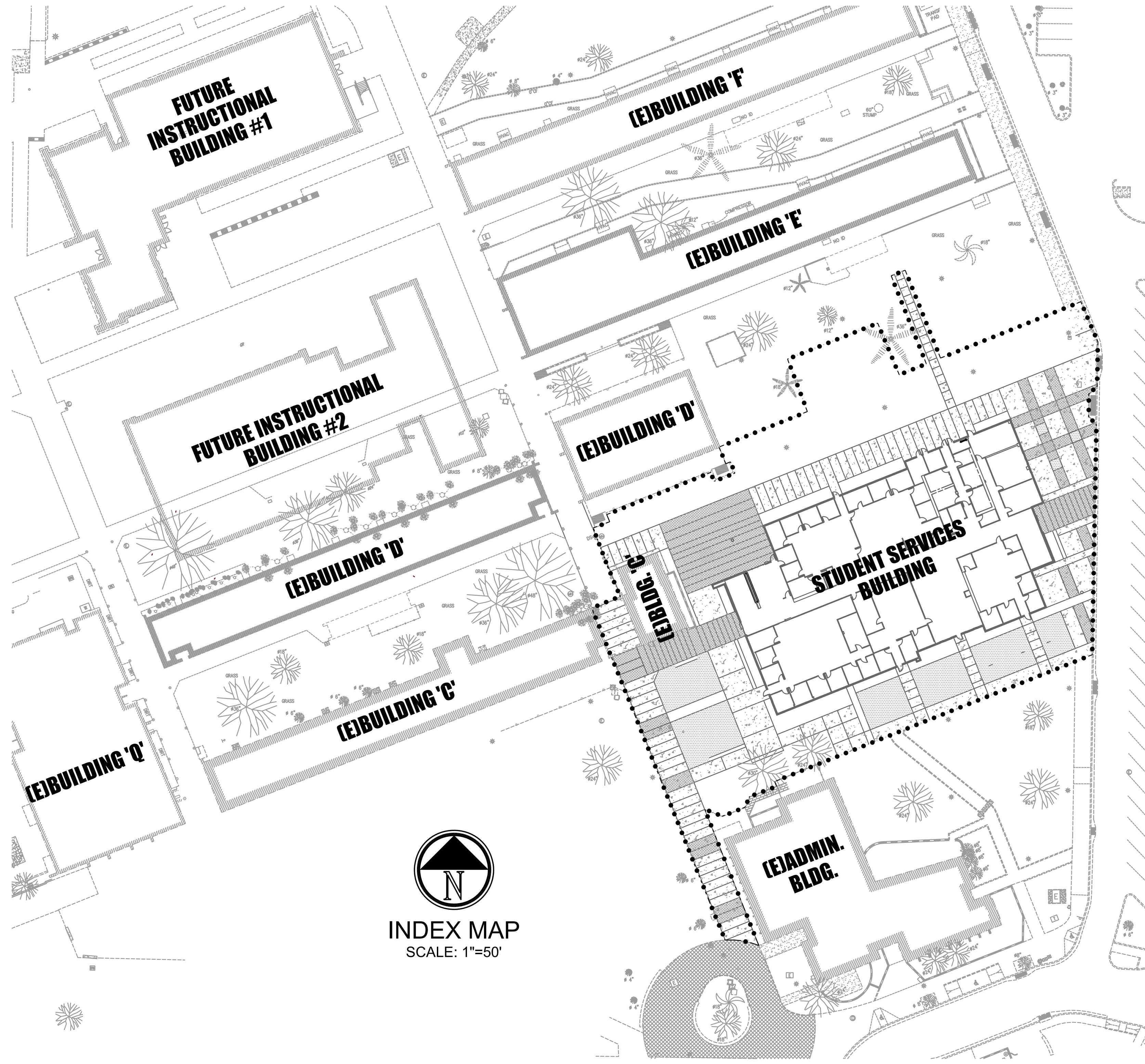
SITE IMPROVEMENT PLANS
FOR
COMPTON COLLEGE
STUDENT SERVICES BUILDING

GENERAL NOTES FOR GRADING

1. ALL WORK SHALL CONFORM WITH THE "GREENBOOK" STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC), 2015 EDITION AND THE LATEST REVISIONS THERETO, THE WORK AREA TRAFFIC CONTROL HANDBOOK (W.A.T.C.H. MANUAL), A.D.A, TITLE 24 REQUIREMENTS, AND THE 2016 C.B.C. UNLESS SPECIFIED OTHERWISE IN THE CONTRACT SPECIFICATIONS.
2. A COPY OF THE DIVISION OF STATE ARCHITECT APPROVED VERSION OF THESE PLANS MUST BE IN THE POSSESSION OF A RESPONSIBLE PERSON AND AVAILABLE AT THE JOB SITE AT ALL TIMES.
3. AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL CONTACT THE REGIONAL NOTIFICATION CENTER (UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA – U.S.A. AT 811) TO OBTAIN AN INQUIRY IDENTIFICATION NUMBER AND TO REQUEST THE UTILITY OWNERS TO MARK OR OTHERWISE INDICATE THE LOCATION OF THEIR SUBSURFACE FACILITIES. THE CONTRACTOR SHALL DETERMINE THE LOCATION AND DEPTH OF ALL UTILITIES, INCLUDING ALL SERVICE CONNECTIONS, WHICH HAVE BEEN MARKED BY THE RESPECTIVE OWNERS AND WHICH MAY AFFECT OR BE AFFECTED BY ITS OPERATIONS. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PROTECT ALL UTILITIES AND ALL STRUCTURES FOUND AT THE SITE.
4. THROUGHOUT ALL PHASES OF CONSTRUCTION, INCLUDING SUSPENSION OF WORK, UNTIL FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL KEEP THE WORK SITE CLEAN AND FREE FROM RUBBISH AND DEBRIS. THE CONTRACTOR SHALL ALSO ABATE DUST NUISANCE BY CLEANING, SWEEPING AND SPRINKLING WITH WATER AND USING DUST FENCES OR OTHER METHODS AS DIRECTED BY THE CONSTRUCTION MANAGER OR FIELD INSPECTOR THROUGHOUT THE CONSTRUCTION OPERATION.
5. KEEP A RECORD OF CHANGES THAT OCCUR DURING CONSTRUCTION AND SUBMIT THIS RECORD TO THE OWNER CERTIFIED AS "AS-CONSTRUCTED DRAWING" PLANS.
6. ALL DAMAGE CAUSED TO PUBLIC STREETS, INCLUDING HAUL ROUTES, ALLEYS, SIDEWALKS, CURBS OR STREET FURNISHINGS, OR TO PRIVATE PROPERTY SHALL BE REPAIRED AT THE SOLE EXPENSE OF THE CONTRACTOR TO THE PUBLIC WORKS INSPECTOR'S & THE PROJECT CIVIL ENGINEER'S SATISFACTION.
7. THE CONTRACTOR SHALL REMOVE AND REPLACE ANY BROKEN OR DAMAGED SIDEWALK, CURB, GUTTER OR ASPHALT PAVING CAUSED BY THEIR WORK AT THE DIRECTION OF THE OWNER AT THE SOLE EXPENSE OF THE CONTRACTOR.
8. TRIM TREE ROOTS AS NECESSARY TO CONSTRUCT PAVEMENT AND INSTALL HEADERS. TRIM ROOTS UNDER THE DIRECTION OF A CERTIFIED ARBORIST. THE OWNERS AUTHORIZED REPRESENTATIVE WILL NOTIFY THE CAMPUS GARDENING SUPERVISOR PRIOR TO TRIMMING ROOTS.
9. UPON MOBILIZATION, AND PRIOR TO DEMOLITION AND CONSTRUCTION OF ANY UTILITIES, THE CONTRACTOR SHALL POTHOLE AND EXPOSE THE EXISTING UTILITIES AT ALL CROSSINGS AND AT THE POINT OF TIE-IN; THEN CONTACT THE ENGINEER TO VERIFY THE ELEVATION OF THE EXISTING FACILITIES.
10. SURVEY MONUMENTS SHALL BE PRESERVED AND REFERENCED BEFORE CONSTRUCTION AND RE-PLACED AFTER CONSTRUCTION PURSUANT TO SECTION 2-9 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC).
11. EITHER WATER OR DUST PALLIATIVE, OR BOTH, MUST BE APPLIED FOR THE ALLEVIATION OR PREVENTION OF EXCESSIVE DUST RESULTING FROM THE LOADING OR TRANSPORTATION OF EARTH FROM OR TO THE PROJECT SITE OR PRIVATE AND PUBLIC ROADWAYS.
12. CONSTRUCT STRAIGHT GRADES BETWEEN ELEVATIONS SHOWN ON PLAN UNLESS INTERRUPTED BY A GRADE CHANGE LINE. ANY DEVIATION FROM THE GRADING PLAN MUST HAVE PRIOR APPROVAL FROM THE ENGINEER.
13. ALL AREAS TO RECEIVE COMPACTED FILL SHALL BE INSPECTED AND APPROVED BY THE SOILS ENGINEER (AND ENGINEERING GEOLOGIST, AS REQUIRED) AFTER REMOVAL OF UNSUITABLE MATERIAL AND EXCAVATION OF KEYWAYS AND BENCHES, AND PRIOR TO PLACEMENT OF SUBSURFACE DRAINAGE SYSTEMS OR ANY FILLS.
14. ALL SOILS OR ROCK MATERIALS DEEMED UNSUITABLE FOR PLACEMENT IN COMPACTED FILL SHALL BE REMOVED FROM THE SITE. ANY IMPORTED MATERIAL SHALL BE TESTED PER DISTRICT REQUIREMENTS AND APPROVED BY THE SCHOOL DISTRICT AND SOILS ENGINEER PRIOR TO USE IN COMPACTED FILL. BLOCKY MATERIAL SHALL BE BROKEN INTO SUITABLE PARTICLE SIZES, BEFORE BEING USED AS FILL IN CONFORMANCE WITH THE PROJECT SOILS REPORT.
15. ALL TREE ROOTS, ABANDONED IRRIGATION LINES, UTILITY SERVICES, SEPTIC TANKS AND SIMILAR MATERIALS SHALL BE REMOVED FROM THE SITE AND VOIDS CREATED THEREBY SHALL BE PROPERLY FILLED AND COMPACTED AS DIRECTED BY THE GEOTECHNICAL ENGINEER WITHIN THE LIMITS OF ALL OVER-EXCAVATED AREAS.
16. ALL EXCAVATED BACK SLOPES AND KEYS FOR BUTTRESS FILLS MUST BE EXAMINED BY THE ENGINEERING GEOLOGIST AND SOILS ENGINEER TO INSURE ALL POTENTIAL PLANES OF FAILURE HAVE BEEN EXPOSED IN THE EXCAVATION AND WILL BE ADEQUATELY SUPPORTED BY THE PROPOSED BUTTRESS FILLS.
17. THE SOILS ENGINEER SHALL SUBMIT RECOMMENDATIONS FOR CORRECTIVE WORK TO INSURE SLOPE STABILITY WHERE UNSTABLE MATERIAL IS EXPOSED AT THE TOP OF CUTS. COORDINATE WITH ARCHITECT OF RECORD AND OWNERS REPRESENTATIVE.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING STORM DAMAGE PREVENTION MEASURES OR EROSION CONTROL DEVICES AND/OR TO PERFORM CERTAIN GRADING TO PREVENT SOIL OR EXCESS RUNOFF FROM FLOWING INTO PUBLIC STREETS OR ADJACENT PROPERTIES. IN THE EVENT OF SUCH AN OCCURRENCE, CLEANUP SHALL COMMENCE IMMEDIATELY. SHOULD CITY FORCES OR THE CITY CONTRACTOR PERFORM ANY CLEANUP RESULTING FROM THIS DEVELOPMENT, THE CONTRACTOR SHALL PAY THE COST INCURRED WITHIN TEN (10) WORKING DAYS UPON RECEIPT OF BILLING.
19. THE CONTRACTOR OR HIS AGENT SHALL BE RESPONSIBLE FOR REMOVAL AND CLEANUP OF ANY SPILL ON PUBLIC STREETS DURING THE GRADING OPERATION. AS WELL AS REPAIR OF DAMAGE TO HAUL ROUTES AND EXISTING FACILITIES.
20. MAXIMUM SLOPES FOR BOTH CUT AND FILL SHALL BE 2:1.
21. NO OVERSIZE OR OVERWEIGHT LOADS ARE PERMITTED WITHOUT A SEPARATE MOVING PERMIT.
22. ALL EQUIPMENT USED TO HAUL EXCAVATION OR FILL MATERIAL FROM OR TO THE SITE SHALL FOLLOW A DESIGNATED ROUTE OR ROUTES IN GOING TO AND FROM THE SITE. THE CONTRACTOR SHALL BE ENTITLED TO THE DESIGNATION OF A ROUTE PROVIDING ACCESS TO A SPECIFIED PLACE OTHER THAN THE SITE, AFTER SHOWING TO THE SATISFACTION OF THE CITY BUILDING OFFICIAL THAT SUCH SPECIFIED PLACE IS A PLACE WHERE EXCAVATION MATERIAL MAY BE REASONABLY DEPOSITED OR FILL MATERIAL MAY BE OBTAINED. A SEPARATE ENCROACHMENT PERMIT IS REQUIRED WHEN IT IS NECESSARY TO FLAG TRAFFIC OR INSTALL ANY TRAFFIC CONTROL DEVICES NO CITY RIGHT-OF-WAY.
23. FINE GRADING TO BE NO LESS THAN THE FOLLOWING UNLESS STATED OTHERWISE ON THE PLANS:

	CROSS-SLOPE	LONGITUDINAL-SLOPE
PERVIOUS SURFACES	2.00%	1.00%
ASPHALT SURFACES	1.00%	1.00%
CONCRETE SURFACES	0.50%	0.50%

24. THE CONTRACTOR SHALL NOTIFY THE DSA INSPECTOR AND OWNERS REPRESENTATIVE AT LEAST 48 HOURS IN ADVANCE OF REQUIRED INSPECTIONS AT FOLLOWING STAGES OF THE WORK:
    (A) INITIAL: WHEN THE SITE HAS BEEN CLEARED OF VEGETATION AND UNAPPROVED FILL AND IT HAS BEEN SCARIFIED, BENCHED OR OTHERWISE PREPARED FOR FILL. NO FILL SHALL HAVE BEEN PLACED PRIOR TO THIS INSPECTION.
    (B) ROUGH: WHEN APPROXIMATE FINAL ELEVATIONS HAVE BEEN ESTABLISHED; DRAINAGE TERRACES, SWALES AND BERMS INSTALLED AT THE TOP OF THE SLOPES.
    (C) FINAL: WHEN GRADING HAS BEEN COMPLETED; ALL DRAINAGE DEVICES INSTALLED; SLOPE PLANTING ESTABLISHED, IRRIGATION SYSTEMS INSTALLED AND THE RECORD PLANS, REQUIRED STATEMENTS, AND REPORTS HAVE BEEN SUBMITTED.
25. ANY EARTH ROCK, GRAVEL, SAND, STONE OR OTHER EXCAVATED MATERIAL DEPOSITED OR CAUSED TO ROLL, FLOW OR WASH UPON ANY PUBLIC PLACE OR PRIVATE PROPERTY SHALL BE REMOVED FROM SUCH PUBLIC PLACE OR PRIVATE PROPERTY BY THE END OF THE WORKDAY BY THE CONTRACTOR RESPONSIBLE FOR THE DEPOSITION. IF AN ADVERSE CONDITION IS CAUSED BY DEPOSIT, THE CONDITION SHALL BE CORRECTED IMMEDIATELY.
26. EVERY EFFORT SHOULD BE MADE TO ELIMINATE THE DISCHARGE OF NON-STORMWATER FROM THE PROJECT SITE AT ALL TIMES.
27. ALL TRUCKS HAULING DIRT, SAND, OIL, OR OTHER LOOSE MATERIALS ON A HIGHWAY ARE TO BE COVERED OR SHOULD MAINTAIN AT LEAST TWO FEET OF FREEBOARD IN ACCORDANCE WITH THE REQUIREMENTS OF CALIFORNIA VEHICLE CODE SECTION 23114. (FREEBOARD MEANS VERTICAL SPACE BETWEEN THE TOP OF THE LOAD AND TOP OF THE TRAILER).
28. RAISE UTILITY BOXES TO ULTIMATE FINISH SURFACE IN SCOPE OF WORK AREAS.
29. CONTRACTOR SHALL HIRE A LICENSED SURVEYOR TO STAKE ALL CATCH BASINS, STORM DRAIN PIPE, SAW-CUT LINES, BUILDING PADS, FINISH FLOORS, SWALES AND GRADE BREAKS. TWO STAKES SHALL BE PROVIDED FOR ALL CATCH BASINS.
30. IN ORDER TO MITIGATE THE IMPACTS ON CULTURAL RESOURCES OR LANDSCAPING, IF CULTURAL MATERIAL SUGGESTIVE OF PREHISTORIC OR HISTORIC ORIGIN IS ENCOUNTERED, WORK IN THE VICINITY OF THE FIND SHALL BE STOPPED, AND THE OWNER SHALL BE NOTIFIED. GRADING, CONSTRUCTION OR LANDSCAPING SHALL NOT RESUME UNTIL THE FIND IS EVALUATED AND IT IS DETERMINED WHETHER THE MATERIAL IS ARCHAEOLOGICALLY SIGNIFICANT AND ADDITIONAL MITIGATION IS REQUIRED.
31. NO PERSON SHALL, WHEN HAULING ANY EARTH, SAND, GRAVEL, ROCK, STONE OR OTHER EXCAVATED MATERIAL OR DEBRIS OVER ANY PUBLIC STREET, ALLEY OR OTHER PUBLIC PLACE, ALLOW SUCH MATERIAL TO BLOW OR SPILL OVER UPON SUCH STREET, ALLEY OR PUBLIC PLACE OR ADJACENT PRIVATE PROPERTY OR ANY WATER BODIES, CREEKS OR STREAMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEANUP AND REMOVAL OF ANY CONSTRUCTION OR SOILS MATERIALS DEPOSITED ON THE PUBLIC RIGHT-OF-WAY, PUBLIC WATERS OR ADJACENT PRIVATE PROPERTY.



INDEX MAP
SCALE: 1"=50'

SHEET INDEX	
SHEET	DESIGNATION
C1.0	SITE IMPROVEMENT PLAN TITLE SHEET
C1.1	DEMOLITION PLAN
C1.2	GRADING PLAN
C1.3	GRADING DETAIL SHEET
C1.4	GRADING DETAIL SHEET
C1.5	UTILITY PLAN
C1.6	UTILITY DETAIL SHEET

NOTE TO CONTRACTOR: BEFORE DEMOLITION OCCURS, THE CONTRACTOR SHALL COMPLETE HIS OWN UNDERGROUND UTILITY MAPPING SURVEY OF THE PROJECT SITE TO DETERMINE WERE EXISTING UTILITIES ARE AND WHERE POSSIBLE UNDERGROUND CONFLICTS MAY OCCUR.

HORIZONTAL CONTROL

AN AUTOCAD GEOMETRIC ELECTRONIC FILE SHALL BE MADE AVAILABLE TO THE CONTRACTOR UPON REQUEST FOR THE CONTRACTOR'S SURVEYOR TO LAYOUT THE CONSTRUCTION STAKING OF THE PROJECT. THE SURVEYOR OR CONTRACTOR WILL NEED TO SIGN A WAIVER FORM BEFORE RELEASE OF ANY CAD ELECTRONIC DRAWINGS.

BENCH MARK INFORMATION:

ADD 0.08 FEET TO ELEVATION SHOWN HEREON TO EQUAL THE LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS 2005 ADJUSTMENT OF THE NORTH AMERICAN DATUM OF 1988 (NAVD88) PER THE FOLLOWING LOS ANGELES COUNTY BENCHMARKS:

GARDENA QUAD, 2005 ADJUSTMENT:

LA COUNTY DPW BM Y12223 2005 ADJ. ELEV. = 63.473' NAVD88 PER COUNTY ELEV.=63.39 PER THIS SURVEY (HENNON & AERIAL MAP) L&DPW TAG IN EAST CURB 1FT. NORTH OF BEGINNING OF CURB RETURN AT NORTHEAST CORNER OF ALAMEDA STREET (EAST BARREL) AND GREENLEAF BLVD. LA COUNTY DPW BM Y12222 2005 ADJ. ELEV.=63.496' NAVD88 PER COUNTY ELEV.=63.42' PER THIS SURVEY (HENNON & AERIAL MAP) L&DPW TAG IN EAST CURB 1 FT. SOUTH OF BEGINNING OF CURB RETURN AT SOUTHEAST CORNER ALAMEDA STREET (EAST BARREL) & GREENLEAF BLVD.

ANY USER OF ELEVATION AND/OR COORDINATES SHOWN HEREON FOR THE CONTROL OF CONSTRUCTION, SHALL VERIFY AT LEAST 3 POINTS SHOWN HEREON, FOR MATHEMATICAL CONSISTENCY PRIOR TO SUCH USE.

EXISTING UNDERGROUND STRUCTURES

THE LOCATIONS OF THE EXISTING UNDERGROUND UTILITIES, AS SHOWN ON THESE PLANS, WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. NO REPRESENTATION IS MADE AS TO THE ACCURACY OR COMPLETENESS OF SAID UTILITY INFORMATION. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE LOCATIONS OF SUCH UNDERGROUND UTILITIES. CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO ANY EXCAVATION OR IMPROVEMENT. THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN TO BE PROTECTED HEREON AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN HEREON.

EARTHWORK NOTICE TO CONTRACTOR: NO EARTHWORK ANALYSIS HAS BEEN COMPLETED WITH RESPECT TO VOLUMES OF SOILS TO BE EXCAVATED, PLACED, OR IMPORTED IN ORDER TO PROVIDE THE FINISHED GRADES SHOWN ON THE PLANS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFYING THE EARTHWORK QUANTITIES NECESSARY TO COMPLETE THE PROJECT.

NPDES STORM WATER CONSTRUCTION GENERAL PERMIT 2009-0009-DWQ (AS AMENDED BY 2010-0014-DWQ & 2012-006-DWQ):
BEFORE CONSTRUCTION ACTIVITY CAN COMMENCE A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) MUST BE IN PLACE AT THE CONSTRUCTION SITE AND A WASTE DISCHARGE IDENTIFICATION NUMBER (WDID #) OBTAINED FROM THE STATE WATER BOARD. THE CONTRACTOR IS RESPONSIBLE FOR THE PREPARATION OF THE SWPPP & OBTAINING THE WDID #. THE CONTRACTOR IS RESPONSIBLE FOR THE IMPLEMENTATION OF THE SWPPP BY UTILIZING A QUALIFIED SWPPP PRACTITIONER (QSP) AS DEFINED IN THE CONSTRUCTION GENERAL PERMIT. THIS INCLUDES MAINTENANCE OF EROSION AND SEDIMENT CONTROL DURING THE LIFE OF THE PROJECT AND SUBMITTAL OF THE ANNUAL REPORTS. THE GENERAL CONTRACTOR SHALL COORDINATE WITH THE OWNER TO PROVIDE ALL APPLICABLE INFORMATION REQUESTED BY THE OWNER TO COMPLETE THE SWPPP.

GENERAL NOTES TO CONTRACTOR

1. THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 7-10, PUBLIC CONVENIENCE AND SAFETY, OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREENBOOK), IN REGARDS TO SAFETY ORDERS.
2. SCOPE OF WORK:
   A. FURNISH ALL LABOR, SUPERVISION, MATERIALS, EQUIPMENT & FACILITIES NECESSARY TO FURNISH, FABRICATE, DELIVER, STORE AND INSTALL ALL WORK NOTED ON THE DRAWINGS.
   B. THE CONTRACTOR SHALL FURNISH & INSTALL ALL WORK NECESSARY TO MAKE A COMPLETE SYSTEM WHETHER OR NOT SUCH DETAILS ARE MENTIONED IN THESE SPECIFICATIONS OR SHOWN ON THE PLANS, BUT WHICH ARE OBVIOUSLY NECESSARY TO MAKE A COMPLETE SYSTEM, EXCEPTING ONLY THOSE PORTIONS THAT ARE SPECIFICALLY MENTIONED HEREIN OR PLAINLY MARKED ON THE ACCOMPANYING DRAWINGS AS BEING INSTALLED UNDER ANOTHER SECTION OF THE SPECIFICATION.
3. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY AVAILABLE SPACES FOR INSTALLING THE WORK.
4. COORDINATION: THE DRAWINGS ARE DIAGRAMMATIC & INTENDED TO SHOW SCOPE. CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES TO PROVIDE BEST ARRANGEMENT OF ALL DUCT, PIPES, CONDUIT, ETC.
5. WORKMANSHIP: THE WORK SHALL BE ACCOMPLISHED BY THE USE OF COMPETENT MECHANICS SKILLED IN THEIR TRADE. THE ENGINEER AND ARCHITECT SHALL HAVE THE RIGHT TO INTERPRET COMPLIANCE OF WORKMANSHIP WITH THE CONTRACT DOCUMENTS.
6. MATERIALS: ALL MATERIALS, APPLIANCES & EQUIPMENT SHALL BE NEW & THE BEST OF THEIR RESPECTIVE KIND. FREE FROM ALL DEFECTS AND OF THE MAKE, BRAND, AND QUANTITY SPECIFIED.
7. CLEAN-UP: UPON COMPLETION OF THE WORK UNDER THIS SECTION THE CONTRACTOR SHALL REMOVE ALL SURPLUS MATERIALS. EQUIPMENT & DEBRIS INCIDENTAL TO THIS WORK & LEAVE THE PREMISES CLEAN AND ORDERLY.

RECOMMENDATIONS AND CONCLUSIONS OF SOILS REPORT No. 10-18469PW, DATED NOVEMBER 13, 2018 BY UNITED-HEIDER INSPECTION GROUP SHALL BE THOROUGHLY COMPLIED WITH. WHERE CONFLICTING INFORMATION BETWEEN THIS GRADING PLAN AND/OR THE PROJECT EARTHWORK SPECIFICATIONS & THE MENTIONED REPORT OCCUR, NOTIFY THE OWNER.

GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

LEGEND

Symbol	Description	Symbol	Description
	POWER POLE		SIGN POST
	SEWER MANHOLE		WIRE FENCE
	STORM DRAIN MANHOLE		CHAIN LINK FENCE
	TELECOMM MANHOLE		BLOCK WALL
	ELECTRICAL MANHOLE		TREE
	FIRE HYDRANT		FLOW DIRECTION
	SEWER CLEANOUT	FS	FINISHED SURFACE
	WATER VALVE	FF	FINISHED FLOOR
	GAS VALVE	FL	FLOW LINE
	WATER METER	CF	CURB FACE
	GAS METER	GB	GRADE BREAK
	WATER VAULT	HP	HIGH POINT
	GAS VAULT	INV	INVERT
	TELEPHONE VAULT	SD — SD	STORM DRAIN
	ELECTRIC VAULT	W — W	DOMESTIC WATER
EPB	ELECTRIC PULLBOX	FW — FW	FIRE WATER
	GUY WIRE	SS — SS	SANITARY SEWER
	LIGHT	G — G	GAS
(62.00)	EXISTING ELEVATION	E — E	ELECTRICAL/POWER
62.00	PROPOSED ELEVATION	C — C	COMMUNICATIONS
-------62 ------	= EXISTING CONTOURS	CHW — CHW	CHILLED/HOT WATER
—62—	= PROPOSED CONTOUR		
···········	= LIMITS OF WORK		

DEPTH FROM SURFACE 1'-6"

DEPTHS SHOWN ARE APPROXIMATE. ESTIMATED DEPTHS ARE FROM THE GROUND SURFACE TO THE CENTER OF THE FACILITY, INVERT OF WASTE LINES, OR TO THE FACILITY TRACER WIRE. DEPTH ESTIMATES SHOULD BE USED WITH CAUTION AND MAY VARY ALONG THE LENGTH OF THE FACILITY.

ABBREVIATIONS

ABND	ABANDONED	L T & T	LEAD TACK AND TAG
AC	ASPHALT PAVEMENT	MH	MANHOLE
AP	ANGLE POINT	NG	NATURAL GROUND
BLDG	BUILDING	N.I.C.	NOT IN CONTRACT
BC	BEGINNING OF CURVE	P.C.C.	PORTLAND CEMENT CONRETE
BW	BACK OF WALK	PL	PROPERTY LINE
CL	CENTERLINE	PIV	POST INDICATOR VALVE
CF	CURB FACE HEIGHT	PP	POWER POLE
CLF	CHAIN LINK FENCE	RCE	REGISTERED CIVIL ENGINEER
CONC	CONCRETE	RR	RAILROAD
DCV	DETECTOR CHECK VALVE	S	SLOPE
DESC	DESCRIBED	SDMH	STORM DRAIN MANHOLE
D/W	DRIVEWAY	SL	STREET LIGHT
DI	DROP INLET	SMH	SEWER MANHOLE
DS	DOWN SPOUT	S.P.P.W.C.	STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION (LATEST EDITION).
EP	EDGE OF PAVEMENT		
EC	END OF CURVE	S.S.P.W.C.	STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREEN BOOK), 2015 EDITION
EX	EXISTING		
FDC	FIRE DEPARTMENT CONNECTION		
FH	FIRE HYDRANT	SW	SIDEWALK
FL	FLOWLINE	TC	TOP OF CURB
FS	FINISH SURFACE	TELE	TELEPHONE
GA	GUY ANCHOR	TG	TOP OF GRATE
GB	GRADE BREAK	TCO	TOP OF CLEANOUT
GP	GUARD POST	TS	TRAFFIC SIGN
GV	GAS VALVE	TW	TOP OF WALL
HB	HOSE BIBB	TYP.	TYPICAL
HP	HIGH POINT	UDG	UNDERGROUND CONDUIT
ICV	IRRIGTION CONTROL VALVE	UTIL	UTILITY
INV	INVERT	WM	WATER METER
IP	IRON PIPE	WV	WATER VALVE
L	LENGTH	W VLT	WATER VAULT
LIP	LIP OF GUTTER	VIF	VERIFY IN FIELD
LP	LIGHT POLE	VLT	VAULT

FLOOD ZONE INFORMATION

Per Flood Insurance Rate Map Number 06037C1815F, dated September 26, 2008, the flood zone for this area is ZONE X (SHADED). ZONE X (SHADED) is an area of 0.2% (500-year) annual chance flood; areas of 1% (100-year) annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile and areas protected by levees from a 1% (100-year) annual chance flood.

CITY OF COMPTON

Date:	July 12, 2016
To:	Division of State Architect, DSA
From:	David Dent, Chief Building Official
Re:	Compton Community College

To whom it may concern,

Most of Compton has been identified to be in flood **Zone X (Unshaded)** or **Zone X (Shaded).** These areas have no base flood elevations and are protected from the base flood by a credited flood protection system. The City of Compton does not require new projects in these zones to be built with specific design considerations to protect them from a possible flood. The City of Compton does not require the finish floor of a building to be elevated above a base flood elevation in these zones. The City of Compton does not require special foundations (such as concrete versus wood) for new projects based on if they are in a Zone X (shaded) or Zone X (unshaded).

Sincerely,

David Dent
Chief Building Official

205 S. Willowbrook Avenue, Compton, CA 90220 * (310) 605-5509 * (310) 605-5598

BIRTHING A NEW COMPTON

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-119686 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/14/2019

DIVISION OF THE STATE ARCHITECT
335 SOUTH GRAND AVENUE, SUITE 2100
LOS ANGELES, CA 90071
ph: 213.897.3995 fx: 213.897.3159
agency

tBP
architecture
planning
interiors

tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895
architect

FPL and Associates, Inc.
Traffic • Transportation • Civil
30 Corporate Park, Suite 401
Irvine, CA 92606
(949) 252-1688

REGISTERED PROFESSIONAL ENGINEER
ALAN WING-CHI LEE
No. C 34971
Exp. 09-30-19
CIVIL
STATE OF CALIFORNIA

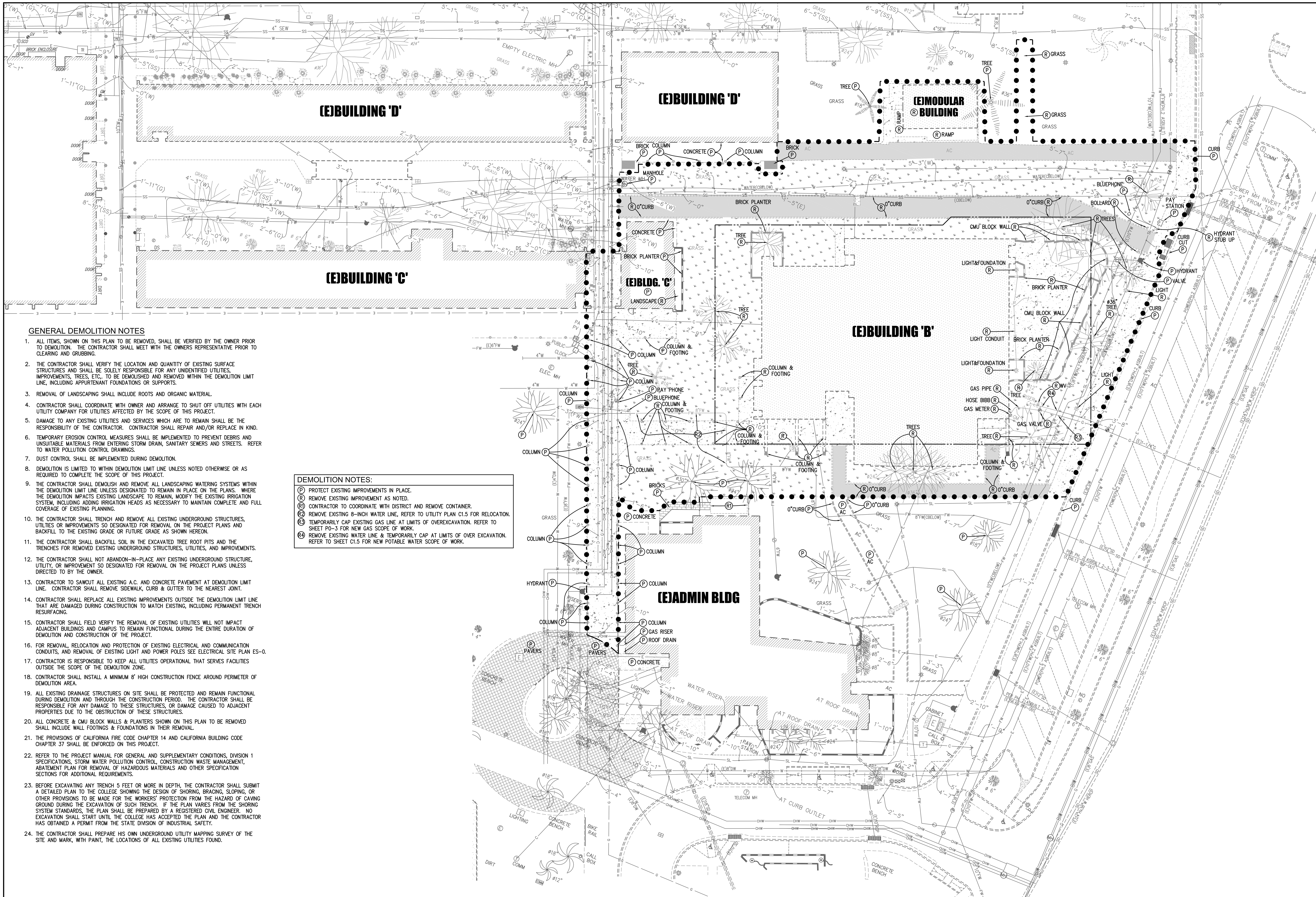
ALAN WING-CHI LEE
R.C.E. 34971
EXP. 09-30-19
consultant

COMPTON COLLEGE
STUDENT SERVICES BLDG.
COMPTON COMMUNITY COLLEGE DISTRICT
1111 E. ARTESIA BLVD.
COMPTON, CA 90221
owner

tBP project number : 20987.00
file name:
drawn by: FPL checked by: A. Lee
date: 9.3.2019
Rev: date: description:

drawing title:
SITE IMPROVEMENT PLAN
TITLE SHEET

drawing no.:
C1.0



GENERAL DEMOLITION NOTES

1. ALL ITEMS, SHOWN ON THIS PLAN TO BE REMOVED, SHALL BE VERIFIED BY THE OWNER PRIOR TO DEMOLITION. THE CONTRACTOR SHALL MEET WITH THE OWNERS REPRESENTATIVE PRIOR TO CLEARING AND GRUBBING.
2. THE CONTRACTOR SHALL VERIFY THE LOCATION AND QUANTITY OF EXISTING SURFACE STRUCTURES AND SHALL BE SOLELY RESPONSIBLE FOR ANY UNIDENTIFIED UTILITIES, IMPROVEMENTS, TREES, ETC,. TO BE DEMOLISHED AND REMOVED WITHIN THE DEMOLITION LIMIT LINE, INCLUDING APPURTENANT FOUNDATIONS OR SUPPORTS.
3. REMOVAL OF LANDSCAPING SHALL INCLUDE ROOTS AND ORGANIC MATERIAL.
4. CONTRACTOR SHALL COORDINATE WITH OWNER AND ARRANGE TO SHUT OFF UTILITIES WITH EACH UTILITY COMPANY FOR UTILITIES AFFECTED BY THE SCOPE OF THIS PROJECT.
5. DAMAGE TO ANY EXISTING UTILITIES AND SERVICES WHICH ARE TO REMAIN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL REPAIR AND/OR REPLACE IN KIND.
6. TEMPORARY EROSION CONTROL MEASURES SHALL BE IMPLEMENTED TO PREVENT DEBRIS AND UNSUITABLE MATERIALS FROM ENTERING STORM DRAIN, SANITARY SEWERS AND STREETS. REFER TO WATER POLLUTION CONTROL DRAWINGS.
7. DUST CONTROL SHALL BE IMPLEMENTED DURING DEMOLITION.
8. DEMOLITION IS LIMITED TO WITHIN DEMOLITION LIMIT LINE UNLESS NOTED OTHERWISE OR AS REQUIRED TO COMPLETE THE SCOPE OF THIS PROJECT.
9. THE CONTRACTOR SHALL DEMOLISH AND REMOVE ALL LANDSCAPING WATERING SYSTEMS WITHIN THE DEMOLITION LIMIT LINE UNLESS DESIGNATED TO REMAIN IN PLACE ON THE PLANS. WHERE THE DEMOLITION IMPACTS EXISTING LANDSCAPE TO REMAIN, MODIFY THE EXISTING IRRIGATION SYSTEM, INCLUDING ADDING IRRIGATION HEADS AS NECESSARY TO MAINTAIN COMPLETE AND FULL COVERAGE OF EXISTING PLANNING.
10. THE CONTRACTOR SHALL TRENCH AND REMOVE ALL EXISTING UNDERGROUND STRUCTURES, UTLTIES OR IMPROVEMENTS SO DESIGNATED FOR REMOVAL ON THE PROJECT PLANS AND BACKFILL TO THE EXISTING GRADE OR FUTURE GRADE AS SHOWN HEREON.
11. THE CONTRACTOR SHALL BACKFILL SOIL IN THE EXCAVATED TREE ROOT PITS AND THE TRENCHES FOR REMOVED EXISTING UNDERGROUND STRUCTURES, UTILITIES, AND IMPROVEMENTS.
12. THE CONTRACTOR SHALL NOT ABANDON-IN-PLACE ANY EXISTING UNDERGROUND STRUCTURE, UTILITY, OR IMPROVEMENT SO DESIGNATED FOR REMOVAL ON THE PROJECT PLANS UNLESS DIRECTED TO BY THE OWNER.
13. CONTRACTOR TO SAWCUT ALL EXISTING A.C. AND CONCRETE PAVEMENT AT DEMOLITION LIMIT LINE. CONTRACTOR SHALL REMOVE SIDEWALK, CURB & GUTTER TO THE NEAREST JOINT.
14. CONTRACTOR SHALL REPLACE ALL EXISTING IMPROVEMENTS OUTSIDE THE DEMOLITION LIMIT LINE THAT ARE DAMAGED DURING CONSTRUCTION TO MATCH EXISTING, INCLUDING PERMANENT TRENCH RESURFACING.
15. CONTRACTOR SHALL FIELD VERIFY THE REMOVAL OF EXISTING UTILITIES WILL NOT IMPACT ADJACENT BUILDINGS AND CAMPUS TO REMAIN FUNCTIONAL DURING THE ENTIRE DURATION OF DEMOLITION AND CONSTRUCTION OF THE PROJECT.
16. FOR REMOVAL, RELOCATION AND PROTECTION OF EXISTING ELECTRICAL AND COMMUNICATION CONDUITS, AND REMOVAL OF EXISTING LIGHT AND POWER POLES SEE ELECTRICAL SITE PLAN ES-0.
17. CONTRACTOR IS RESPONSIBLE TO KEEP ALL UTILITES OPERATIONAL THAT SERVES FACILITIES OUTSIDE THE SCOPE OF THE DEMOLITION ZONE.
18. CONTRACTOR SHALL INSTALL A MINIMUM 8' HIGH CONSTRUCTION FENCE AROUND PERIMETER OF DEMOLITION AREA.
19. ALL EXISTING DRAINAGE STRUCTURES ON SITE SHALL BE PROTECTED AND REMAIN FUNCTIONAL DURING DEMOLITION AND THROUGH THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THESE STRUCTURES, OR DAMAGE CAUSED TO ADJACENT PROPERTIES DUE TO THE OBSTRUCTION OF THESE STRUCTURES.
20. ALL CONCRETE & CMU BLOCK WALLS & PLANTERS SHOWN ON THIS PLAN TO BE REMOVED SHALL INCLUDE WALL FOOTINGS & FOUNDATIONS IN THEIR REMOVAL.
21. THE PROVISIONS OF CALIFORNIA FIRE CODE CHAPTER 14 AND CALIFORNIA BUILDING CODE CHAPTER 37 SHALL BE ENFORCED ON THIS PROJECT.
22. REFER TO THE PROJECT MANUAL FOR GENERAL AND SUPPLEMENTARY CONDITIONS, DIVISION 1 SPECIFICATIONS, STORM WATER POLLUTION CONTROL, CONSTRUCTION WASTE MANAGEMENT, ABATEMENT PLAN FOR REMOVAL OF HAZARDOUS MATERIALS AND OTHER SPECIFICATION SECTIONS FOR ADDITIONAL REQUIREMENTS.
23. BEFORE EXCAVATING ANY TRENCH 5 FEET OR MORE IN DEPTH, THE CONTRACTOR SHALL SUBMIT A DETAILED PLAN TO THE COLLEGE SHOWING THE DESIGN OF SHORING, BRACING, SLOPING, OR OTHER PROVISIONS TO BE MADE FOR THE WORKERS' PROTECTION FROM THE HAZARD OF CAVING GROUND DURING THE EXCAVATION OF SUCH TRENCH. IF THE PLAN VARIES FROM THE SHORING SYSTEM STANDARDS, THE PLAN SHALL BE PREPARED BY A REGISTERED CIVIL ENGINEER. NO EXCAVATION SHALL START UNTIL THE COLLEGE HAS ACCEPTED THE PLAN AND THE CONTRACTOR HAS OBTAINED A PERMIT FROM THE STATE DIVISION OF INDUSTRIAL SAFETY.
24. THE CONTRACTOR SHALL PREPARE HIS OWN UNDERGROUND UTILITY MAPPING SURVEY OF THE SITE AND MARK, WITH PAINT, THE LOCATIONS OF ALL EXISTING UTILITIES FOUND.

DEMOLITION NOTES:

- (P) PROTECT EXISTING IMPROVEMENTS IN PLACE.
- (R) REMOVE EXISTING IMPROVEMENT AS NOTED.
- (R1) CONTRACTOR TO COORDINATE WITH DISTRICT AND REMOVE CONTAINER.
- (R2) REMOVE EXISTING 8-INCH WATER LINE, REFER TO UTILITY PLAN C1.5 FOR RELOCATION.
- (R3) TEMPORARILY CAP EXISTING GAS LINE AT LIMITS OF OVEREXCAVATION. REFER TO SHEET P0-3 FOR NEW GAS SCOPE OF WORK.
- (R4) REMOVE EXISTING WATER LINE & TEMPORARILY CAP AT LIMITS OF OVER EXCAVATION. REFER TO SHEET C1.5 FOR NEW POTABLE WATER SCOPE OF WORK.

LEGEND:

- = (E)BUILDING TO BE DEMOLISHED
- = (E)TURF TO BE REMOVED
- = (E)CONCRETE TO BE REMOVED
- = (E)PAVERS TO REMAIN
- = (E)ASPHALT TO BE REMOVED
- = (E)BUILDING (TO REMAIN)

	LIMITS OF DEMOLITION
	NEW STUDENT SERVICES BUILDING PROPOSED LIMITS OF MAT SLAB
SD — SD	(E)STORM DRAIN
W — W	(E)DOMESTIC WATER
FW — FW	(E)FIRE WATER
SS — SS	(E)SANITARY SEWER
G — G	(E)GAS
E — E	(E)ELECTRICAL/POWER
C — C	(E)COMMUNICATIONS
CHW — CHW	(E)CHILLED/HOT WATER
SL — SL	(E)LIGHTING CONDUIT

NOTE TO CONTRACTOR: BEFORE DEMOLITION OCCURS, THE CONTRACTOR SHALL COMPLETE HIS OWN UNDERGROUND UTILITY MAPPING SURVEY OF THE PROJECT SITE TO DETERMINE WERE EXISTING UTILITIES ARE AND WHERE POSSIBLE UNDERGROUND CONFLICTS MAY OCCUR.

20 10 0 20 40 60
SCALE: 1" = 20'

Plot Date: 8/30/2019 9:18:09 AM Last Save By: ron.canedy Login: Ron Canedy S:\Jobs\2757 - TBP Architects\2757s - Compton CCD Student Services Building\Civil\Student Services - C1.1 Demolition Plan.dwg

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No. C 34971
Exp. 09-30-19
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ALAN WING-CHI LEE R.C.E. 34971
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COMPTON COLLEGE
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COMPTON, CA 90221

owner

tBP project number : 20987.00

file name:

drawn by: FPL checked by: A. Lee

date: 9.3.2019

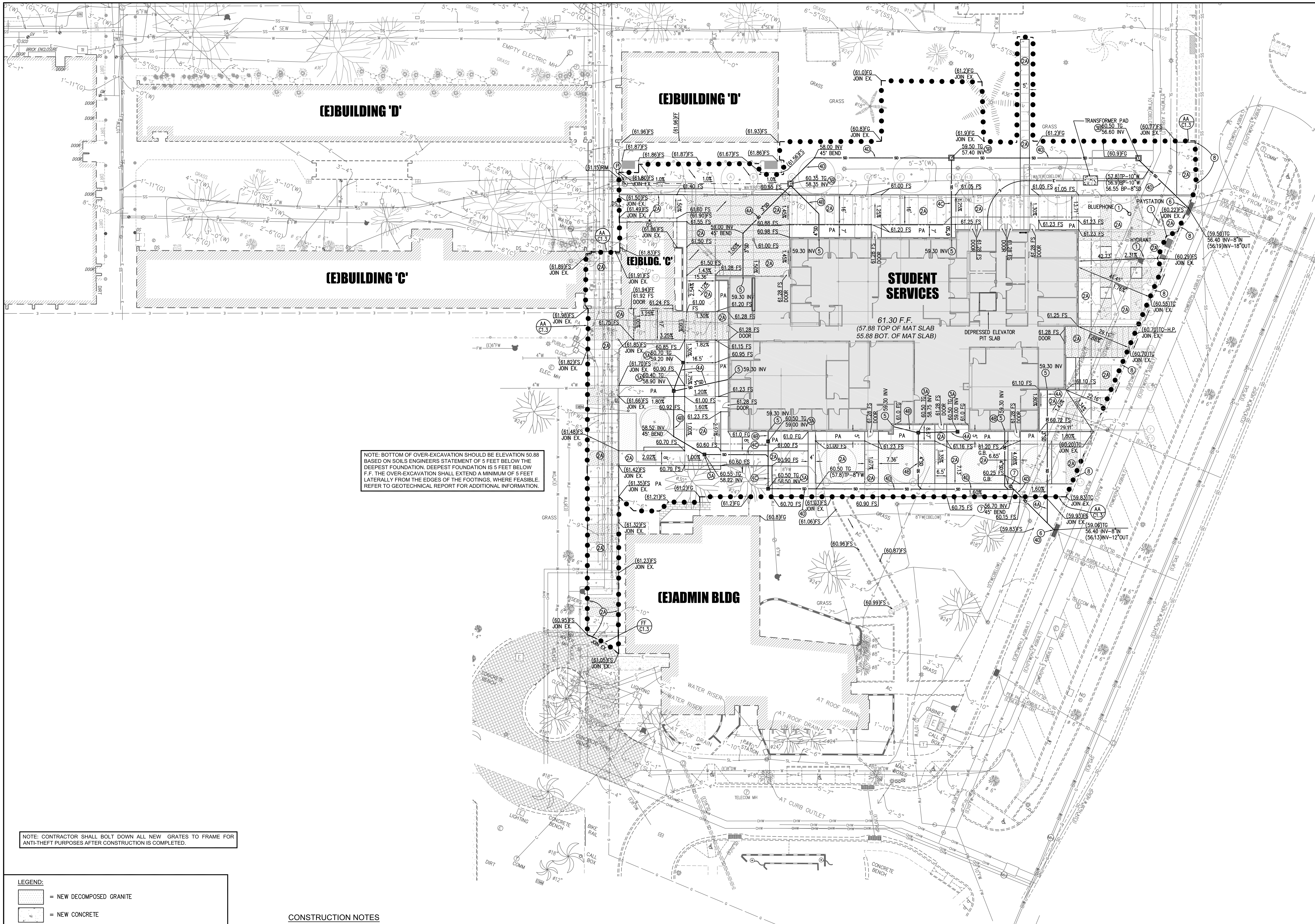
Rev:	date:	description:

drawing title:

DEMOLITION PLAN

drawing no.:

C1.1



NOTE: BOTTOM OF OVER-EXCAVATION SHOULD BE ELEVATION 50.88 BASED ON SOILS ENGINEERS STATEMENT OF 5 FEET BELOW THE DEEPEST FOUNDATION. DEEPEST FOUNDATION IS 5 FEET BELOW F.F. THE OVER-EXCAVATION SHALL EXTEND A MINIMUM OF 5 FEET LATERALLY FROM THE EDGES OF THE FOOTINGS, WHERE FEASIBLE. REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.

NOTE: CONTRACTOR SHALL BOLT DOWN ALL NEW GRATES TO FRAME FOR ANTI-THEFT PURPOSES AFTER CONSTRUCTION IS COMPLETED.

LEGEND:

- = NEW DECOMPOSED GRANITE
- = NEW CONCRETE
- = NEW BUILDING FOOTPRINT
- = (E)PAVERS TO REMAIN
- = (E)BUILDING (TO REMAIN)
- = LIMITS OF WORK
- NEW STUDENT SERVICES BUILDING PROPOSED LIMITS OF MAT SLAB
- SD — NEW STORM DRAIN
- SD — (E)STORM DRAIN
- W — (E)DOMESTIC WATER
- FW — (E)FIRE WATER
- SS — (E)SANITARY SEWER
- G — (E)GAS
- E — (E)ELECTRICAL/POWER
- C — (E)COMMUNICATIONS
- CHW — (E)CHILLED/HOT WATER
- SL — (E)LIGHTING CONDUIT

CONSTRUCTION NOTES

1. PROTECT EXISTING IMPROVEMENTS IN PLACE.
2A. CONSTRUCT CONCRETE PAVEMENT SECTION PER TABLE 1 ON SHEET C1.3.
3A. CONSTRUCT 12" SQUARE CATCH BASIN PER DETAIL 3A ON SHEET C1.4. INSTALL WITH STEEL GALVANIZED GRATE (PARKWAY RATED, A.D.A, BOLT-DOWN TYPE).
3B. CONSTRUCT 24" SQUARE CATCH BASIN PER DETAIL 3B ON SHEET C1.4. INSTALL WITH STEEL GALVANIZED GRATE (PARKWAY RATED, A.D.A, BOLT-DOWN TYPE).
4A. CONSTRUCT 3" NO HUB CAST IRON PIPE WITH STAINLESS STEEL-BANDED HUBLESS COUPLINGS. SEE CORRESPONDING TRENCH DETAILS ON SHEET C1.3
4B. CONSTRUCT 4" SDR-35 P.V.C. DRAINAGE PIPE. SEE CORRESPONDING TRENCH DETAILS ON SHEET C1.3
4C. CONSTRUCT 6" SDR-35 P.V.C. DRAINAGE PIPE. SEE CORRESPONDING TRENCH DETAILS ON SHEET C1.3
4D. CONSTRUCT 8" SDR-35 P.V.C. DRAINAGE PIPE. SEE CORRESPONDING TRENCH DETAILS ON SHEET C1.3
5. CONNECT UNDERGROUND STORM DRAIN TO ROOF DRAIN DOWNSPOUT WITH FERNCO RUBBER COUPLING, OR APPROVED EQUAL, APPROXIMATELY 24-INCHES BELOW FINISH FLOOR.
6. CORE DRILL INTO BACK OF EXISTING CATCH BASIN AND INSTALL PIPE. SEAL VOIDS BETWEEN PIPE AND CATCH BASIN WITH CEMENT MORTAR.
7. CONSTRUCT STORM DRAIN CLEANOUT PER DETAIL S3 ON C1.6. COVER TO BE MARKED "SD" FOR STORM DRAIN.
8. REPAINT EXISTING RED CURB WITH RED PAINT AND WHITE "FIRE LANE NO PARKING".

20 10 0 20 40 60

SCALE: 1" = 20'

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date: 9.3.2019

Rev:	date:	description:

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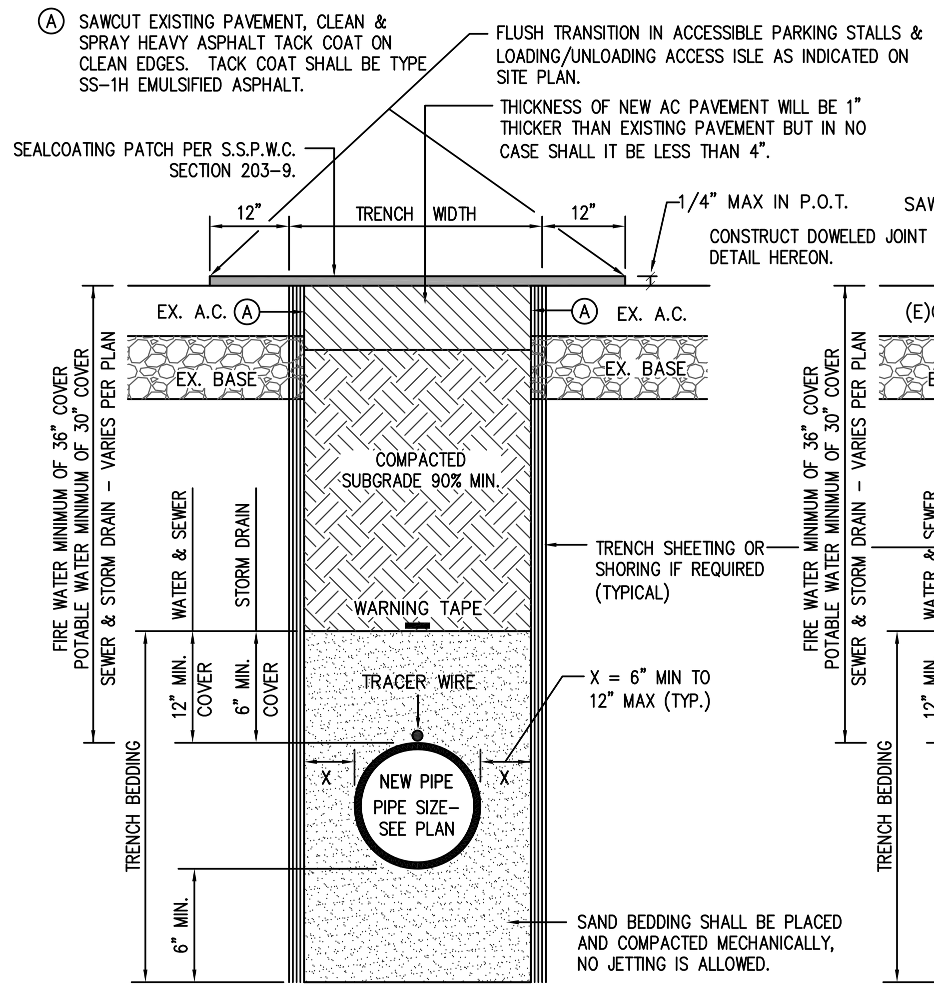
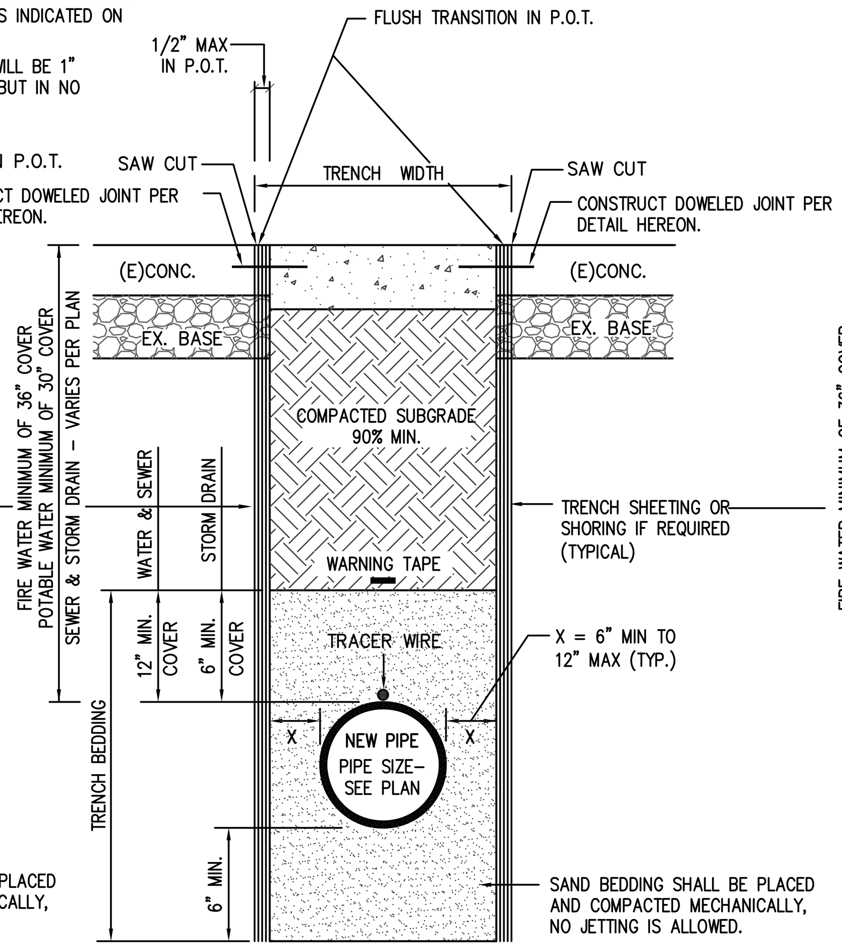
GRADING PLAN

drawing no.:
C1.2

TRENCHING DETAILS - WATER, STORM DRAIN & SANITARY SEWER



EXISTING ASPHALT AREAS
N.T.S.



EXISTING CONCRETE AREAS
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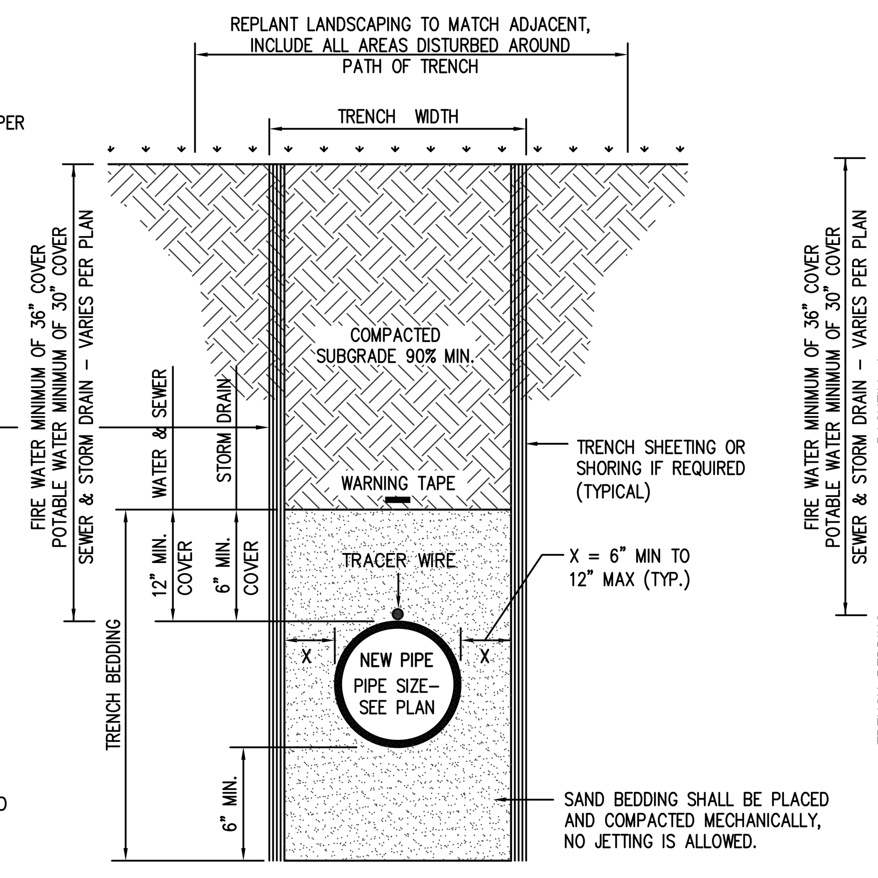
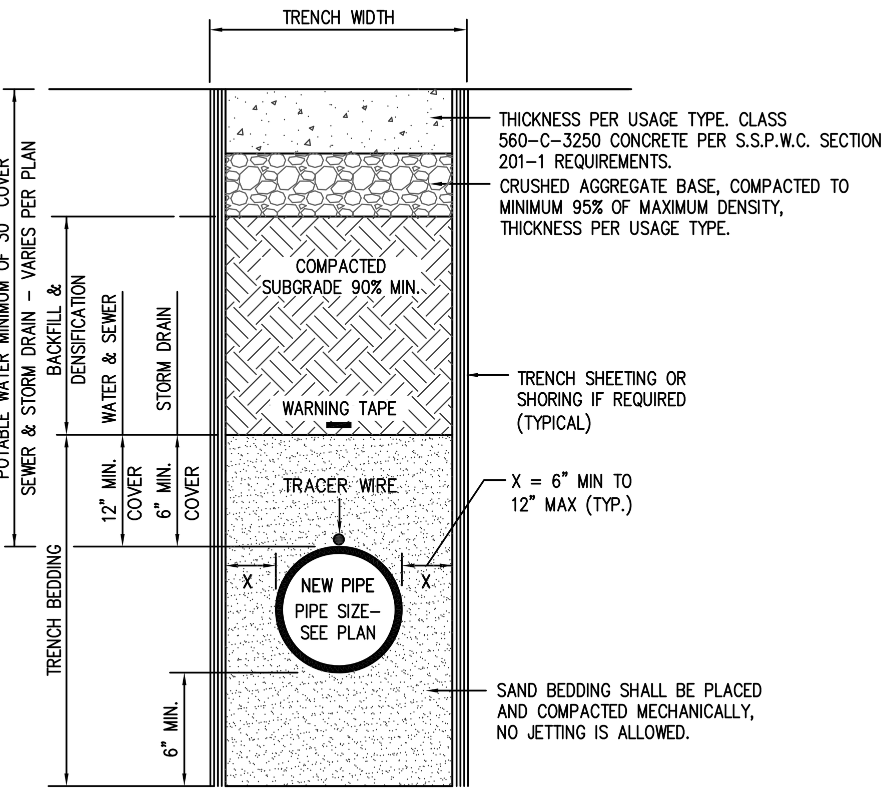
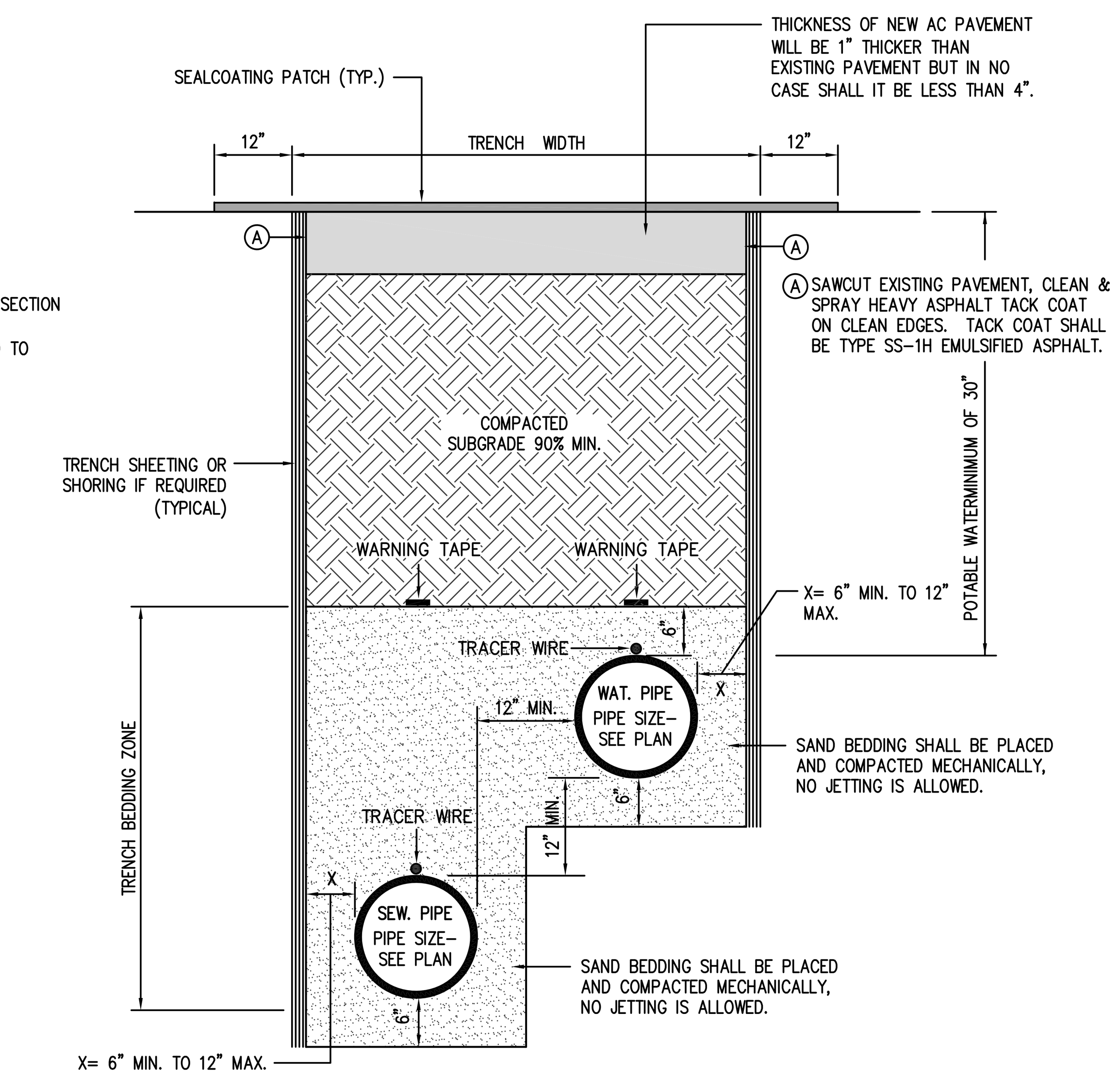


NEW OR EXISTING LANDSCAPED AREAS
N.T.S.

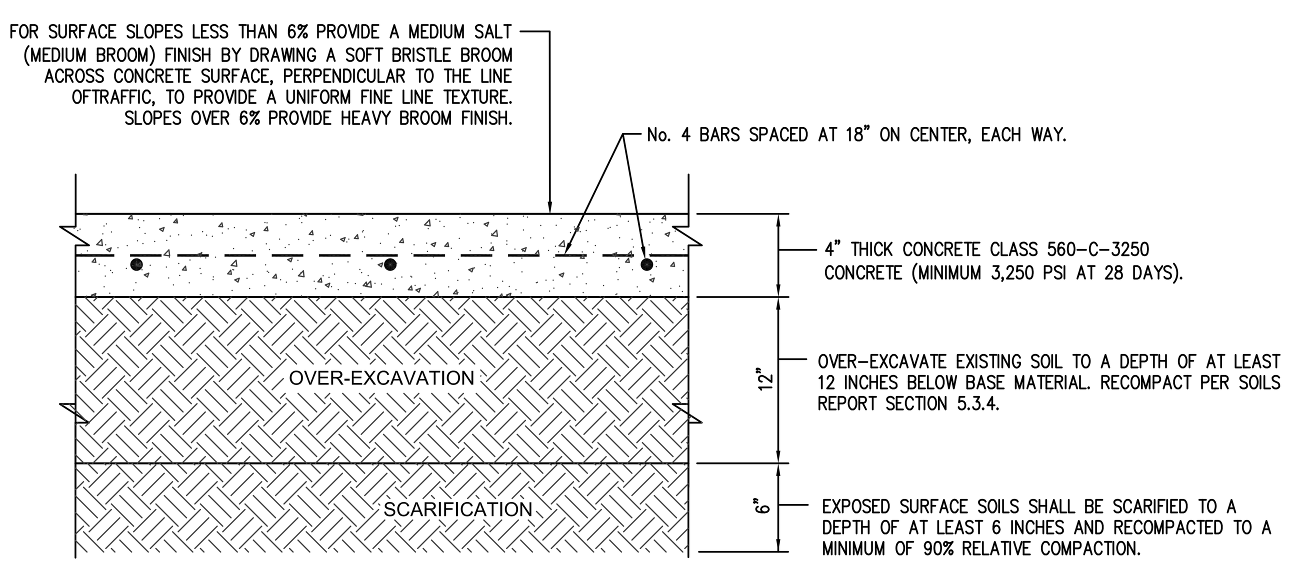


NEW CONCRETE AREAS
N.T.S.

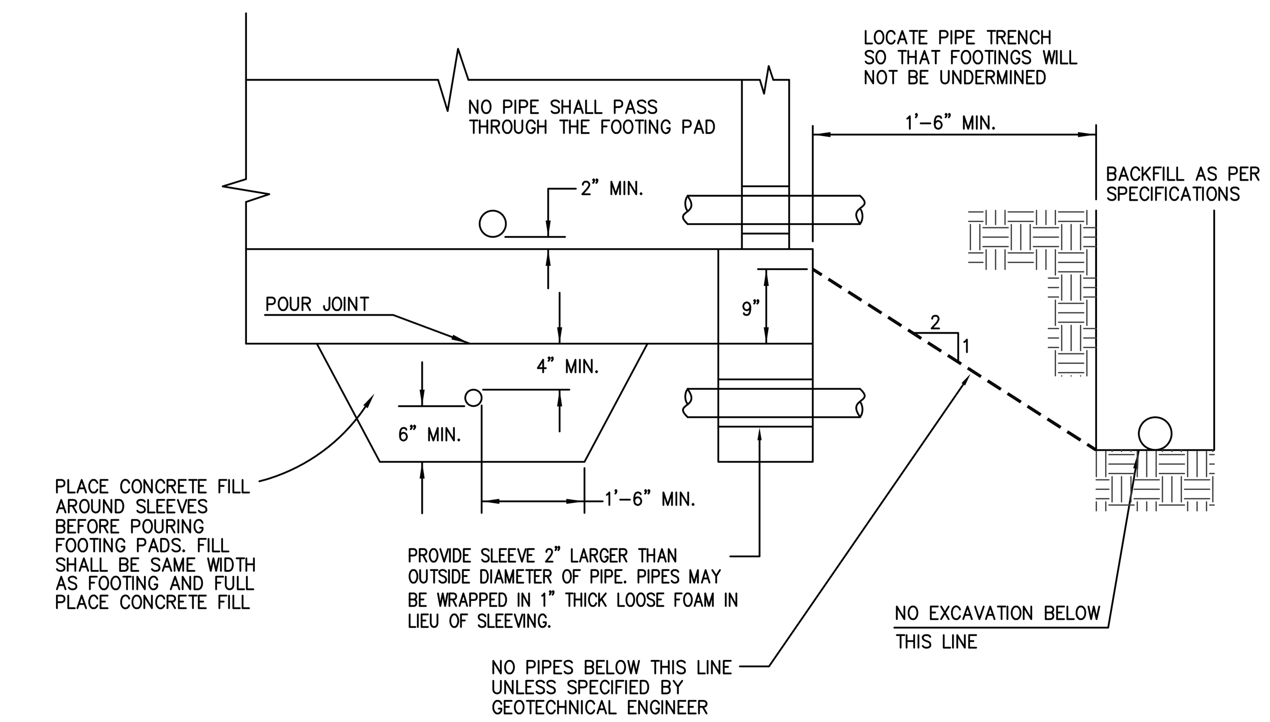


ALTERNATE TRENCH DETAIL IN EXISTING ASPHALT CONCRETE AREAS
(ALLOWABLE WHERE CONDITIONS APPLY)
NOT TO SCALE

(2A) TABLE 1
CONCRETE PAVEMENT STRUCTURAL SECTIONS



NOTES:
1. ADJACENT PAVING, WHERE OCCURS, TO BE FLUSH WITH TOP EDGE OF SLAB.
2. ALL CONCRETE WALKS SHALL BE ASTM C-150 TYPE II PORTLAND CEMENT.
3. ALL CONCRETE WALKS SHALL BE 1" MAXIMUM COARSE AGGREGATE SIZE CONFORMING TO GRADING 'C' OF THE S.P.P.W.C. SECTION 201-1.3.2(A).



TYPICAL PIPE TRENCH / FOOTING DETAIL
NOT TO SCALE

TRENCHING NOTICE TO CONTRACTOR

WATER PIPES SHALL NOT BE RUN OR LAID IN THE SAME TRENCH AS BUILDING SEWER UNLESS BOTH OF THE FOLLOWING CONDITIONS ARE MET PER 2016 CALIFORNIA PLUMBING CODE, SECTION 609.2:

THE BOTTOM OF THE WATER PIPE, AT ALL POINTS, SHALL BE AT LEAST TWELVE (12) INCHES ABOVE THE TOP OF THE SEWER LINE.

THE WATER PIPE SHALL BE PLACED ON A SOLID SHELF EXCAVATED AT ONE SIDE OF THE COMMON TRENCH WITH A MINIMUM CLEAR HORIZONTAL DISTANCE OF AT LEAST TWELVE (12) INCHES FROM THE SEWER.

TRENCH EXCAVATION, BEDDING, & BACKFILL NOTES:

EXCAVATION NOTE: THE 2016 CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH REGULATIONS (CAL/OSHA) WILL REQUIRE A PERMIT FOR THE CONSTRUCTION OF TRENCHES OR EXCAVATIONS WHICH ARE FIVE (5) FEET OR DEEPER AND INTO WHICH A PERSON IS REQUIRED TO DESCEND. FOR PERMIT PURPOSES, "DESCEND" MEANS TO ENTER ANY PART OF THE TRENCH OR EXCAVATION ONCE THE EXCAVATION HAS ATTAINED A DEPTH OF 5 FEET OR MORE. FOR REGULATIONS RELATING TO PERMITS FOR EXCAVATIONS AND TRENCHES, REFER TO THE CALIFORNIA CODE OF REGULATIONS TITLE 8, CHAPTER 3.2, ARTICLE 2, SECTION 341 OF THE CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH REGULATIONS (CAL/OSHA)

THE CONTRACTOR SHALL SUBMIT A DETAIL SHOWING THE DESIGN OR SHORING; BRACING SLOPING OR OTHER PROVISIONS TO BE MADE FOR WORKER PROTECTION FROM THE HAZARDS OF CAVING GROUND DURING THE EXCAVATION. THE PLAN SUBMITTED SHALL BE SIGNED BY A REGISTERED CIVIL OR STRUCTURAL ENGINEER CERTIFIED THAT THE PLAN COMPLIES WITH ALL OSHA CONSTRUCTION SAFETY ORDERS.

BEDDING MATERIAL SHALL BE COARSE SAND WITH SAND EQUIVALENT OF 35 OR GREATER. NO ANGULAR STONES OR PEA GRAVELS WILL BE ALLOWED IN PIPE BEDDING.

COMPACTION METHODS: ALL BEDDING & BACKFILL COMPACTION SHALL BE BY HAND-OPERATED, PLATE-TYPE, VIBRATORY, OR OTHER SUITABLE HAND-TAMPERS IN AREAS NOT ACCESSIBLE TO LARGER ROLLERS OR COMPACTERS. EXTREME CARE SHALL BE TAKEN TO AVOID DAMAGE TO CONDUITS, PIPES, AND ANY APPURTENANCES. WATER DENSIFICATION BY INUNDATION OR JETTING SHALL NOT BE PERMITTED WITHOUT PRIOR WRITTEN APPROVAL FROM CIVIL ENGINEER.

SHEETING: WHEN EXCAVATION DEPTHS OR SOIL CONDITIONS REQUIRE SHORING OR USE OF A TRENCH BOX, THE BOTTOM OF THE SHORING OR TRENCH BOX SHOULD BE PLACED NO LOWER THEN THE TOP OF THE PIPE. THIS PREVENTS DISRUPTION OF THE BACKFILL ENVELOPE WHEN REMOVING THE SHORING OR TRENCH BOX. IF THIS PRACTICE CANNOT BE FOLLOWED, CONSIDERATION SHOULD BE GIVEN TO LEAVING THE SHORING IN PLACE.

* GENERAL NOTES:

IF 90% COMPACTION IS NOT ATTAINABLE DURING CONSTRUCTION THE USE OF A SLURRY BACKFILL MAY BE SUBSTITUTED. SAND SLURRY SHALL CONSIST OF 1 SACK PORTLAND CEMENT (CLASS 100-E-100) PER CUBIC YARD OF SAND SLURRY MIX.

WARNING TAPE NOTES (POTABLE WATER):

A METALLIC LINED TAPED FOR UNDERGROUND PIPES, MARKED "CAUTION BURIED WATER LINE BELOW", IN POLYETHYLENE FILM COLOR BLUE, INSTALLED ABOVE PIPE, 6" WIDE.

WARNING TAPE NOTES (FIRE WATER):

A METALLIC LINED TAPED FOR UNDERGROUND PIPES, MARKED "CAUTION FIRE LINE BELOW", IN POLYETHYLENE FILM COLOR RED, INSTALLED ABOVE PIPE, 6" WIDE.

WARNING TAPE NOTES (STORM DRAIN):

A METALLIC LINED TAPED FOR UNDERGROUND PIPES, MARKED "CAUTION STORM DRAIN LINE BELOW", IN POLYETHYLENE FILM COLOR GREEN, INSTALLED ABOVE PIPE, 6" WIDE.

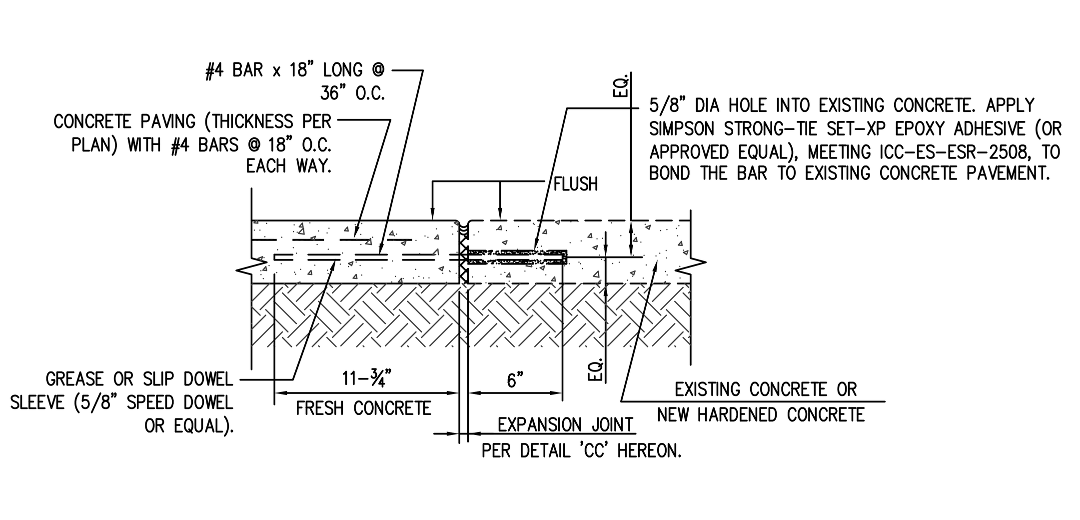
WARNING TAPE NOTES (SANITARY SEWER):

A METALLIC LINED TAPED FOR UNDERGROUND PIPES, MARKED "CAUTION BURIED SEWER LINE BELOW", IN POLYETHYLENE FILM COLOR GREEN, INSTALLED ABOVE PIPE, 6" WIDE.

TRACER WIRE NOTES:

COPPER TRACER WIRE SHALL BE INSTALLED ON ALL NON-METALLIC PIPELINES, 2" AND GREATER, JUST ABOVE THE HORIZONTAL CENTERLINE OF THE PIPE. THE COPPER WIRE SHALL BE #14 AWG.

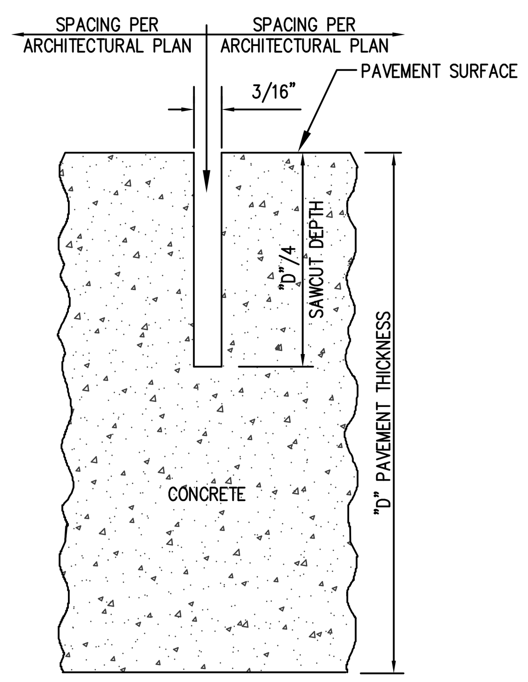
CONCRETE PAVEMENT JOINT DETAILS



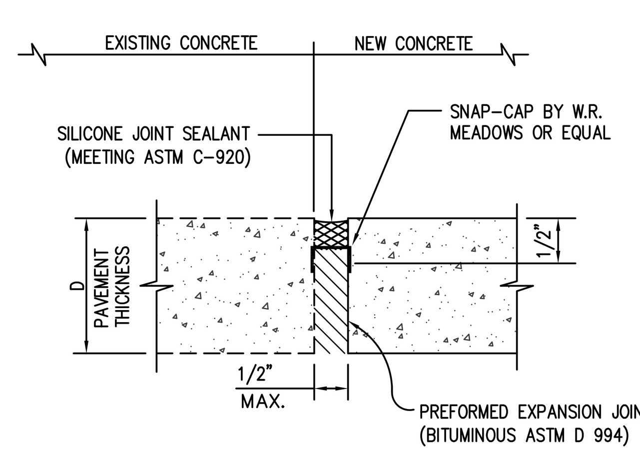
NOTE: 1. VERTICAL CHANGE IN ELEVATION ALONG ACCESSIBLE PATH OF TRAVEL CANNOT EXCEET 1/4" PER CBC 11B-303.2

2. LEVEL CHANGE BETWEEN 1/4"-1/2" MUST BE BEVELED AT 1:2 MAX PER CBC 111B-303.3

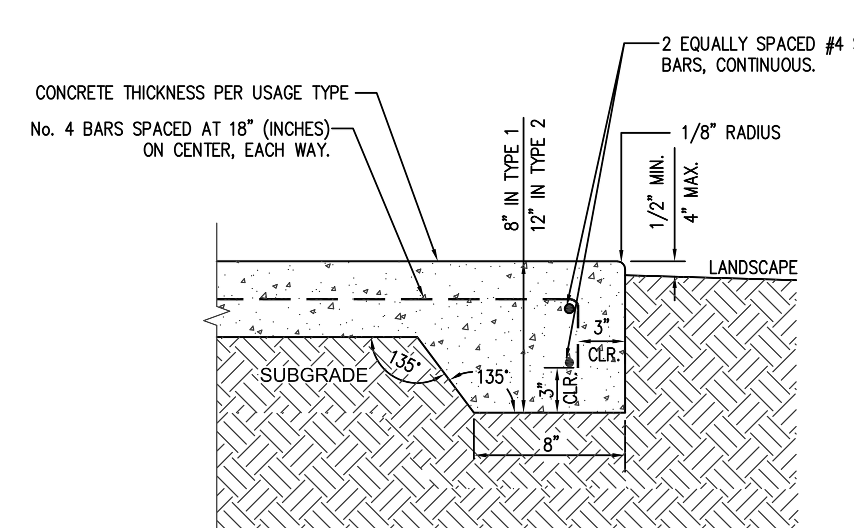
(AA) EXPANSION JOINT (E.J.) WITH REBAR
NOT TO SCALE



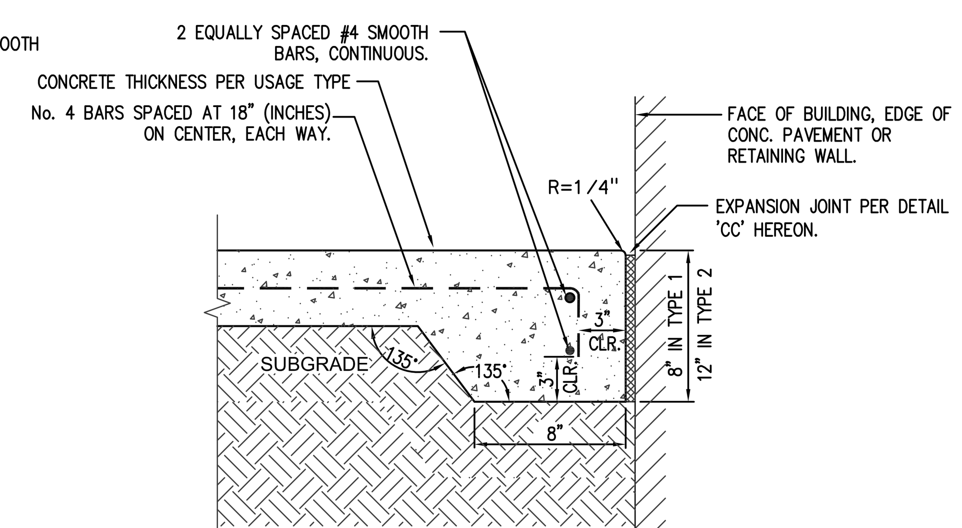
(BB) CONTROL JOINT (C.J.)
NOT TO SCALE



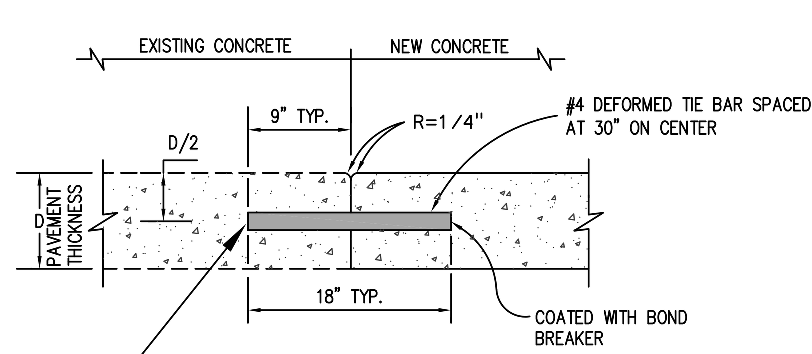
(CC) EXPANSION JOINT (E.J.)
NOT TO SCALE



(DD) EDGE OF CONCRETE SLAB (E.C.S.)
NOT TO SCALE

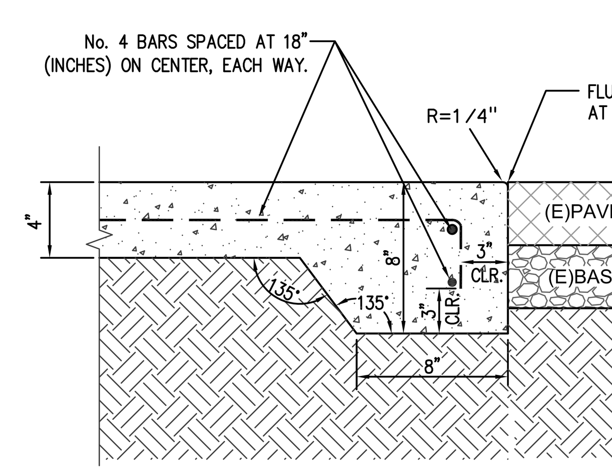


(EE) EDGE OF CONCRETE SLAB (E.C.S.)
NOT TO SCALE



(FF) DOWELED JOINT (D.J.)
NOT TO SCALE

DRILL 5/8" DIA HOLE INTO EXISTING CONCRETE. APPLY SIMPSON SET HIGH STRENGTH EPOXY-TIE (OR APPROVED EQUAL) ICC-ES-ESR-2508 TO BOND THE BAR TO EXISTING CONCRETE PAVEMENT.



(FF) WHERE CONCRETE MEETS PAVERS
NOT TO SCALE

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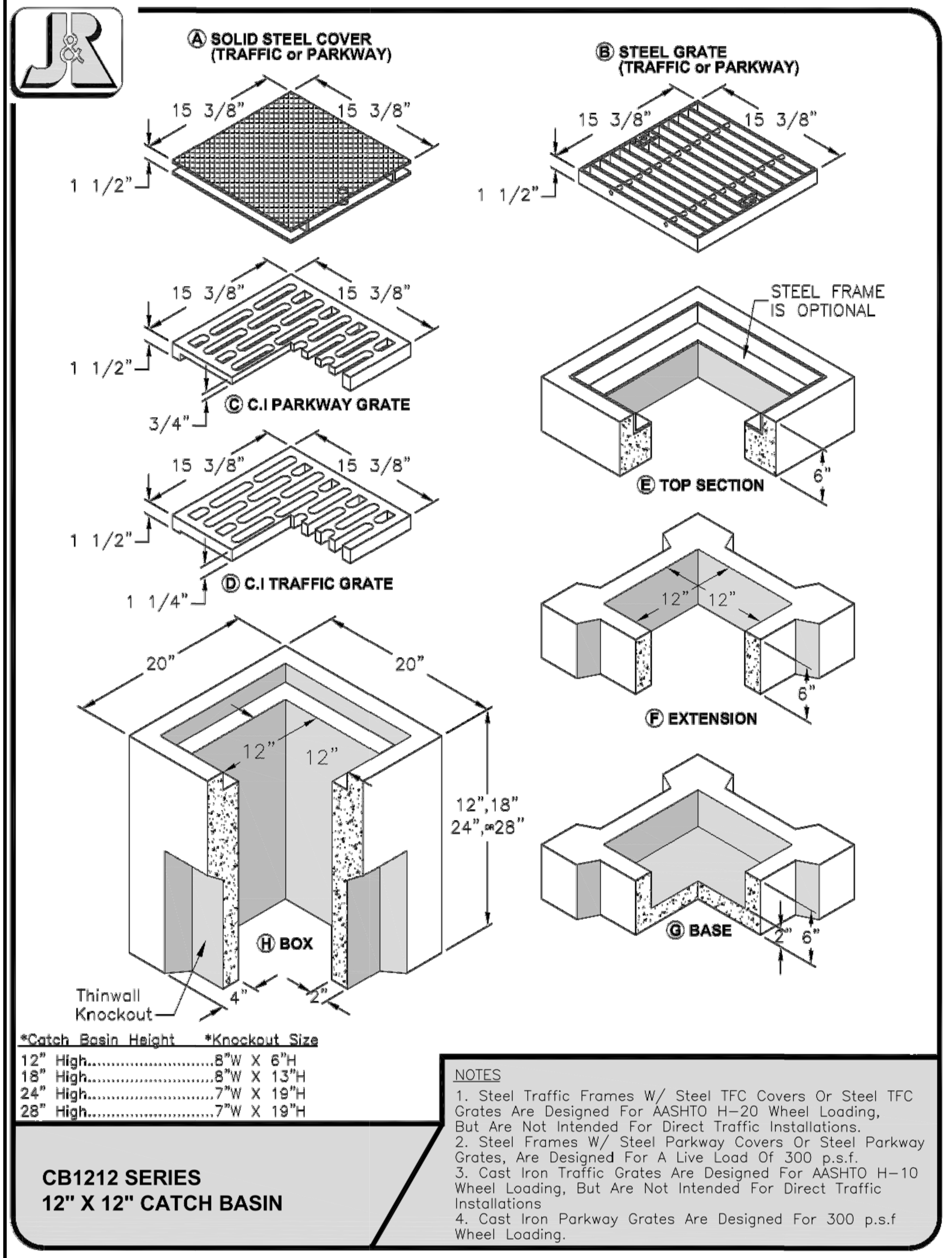
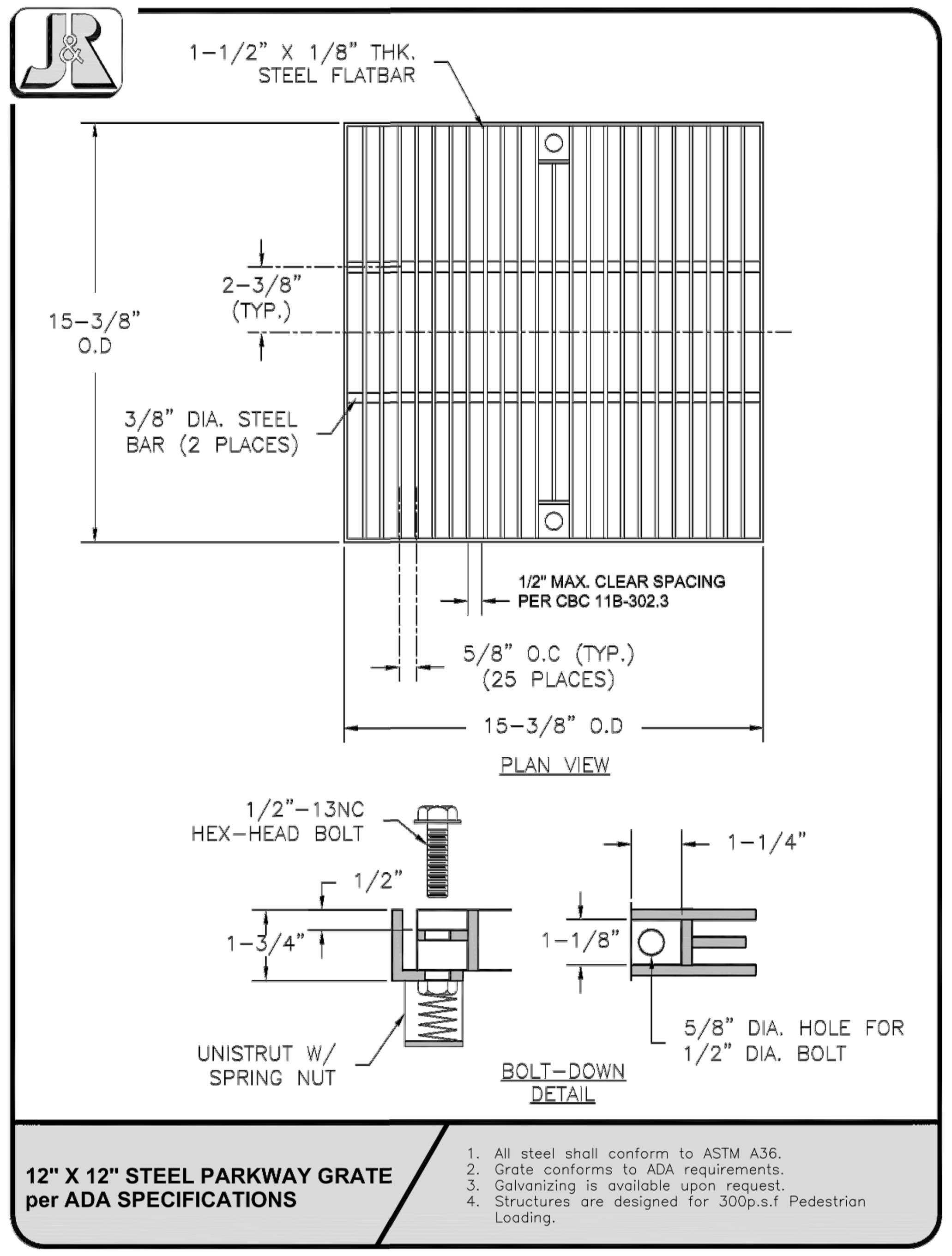


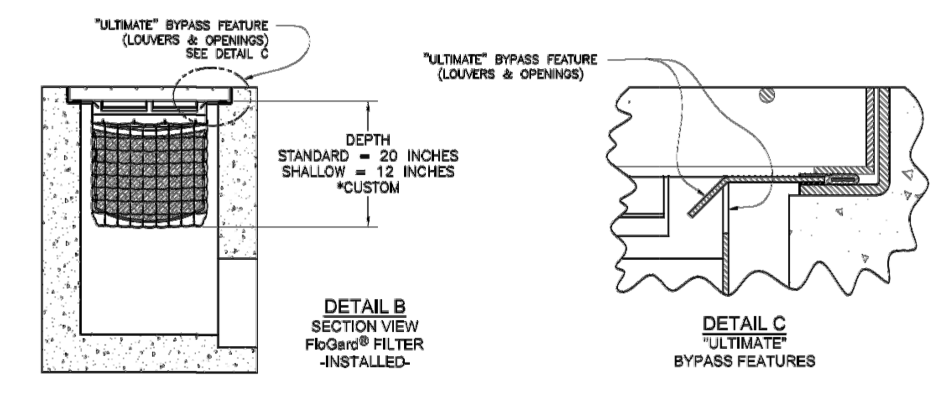
3A 12" x 12" CATCH BASIN DETAIL
NOT TO SCALE



3A 12" ADA PARKWAY GRATE DETAIL
INSTALL IN SOFTSCAPE AREAS

FGP-0001

U.S. PATENT # 6,00,023 & 6,877,029



* MANY OTHER STANDARD & CUSTOM SIZES & DEPTHS AVAILABLE UPON REQUEST.

SPECIFIER CHART

MODEL NO. STANDARD DEPTH	STANDARD & SHALLOW DEPTH (Data in these columns is the same for both STANDARD & SHALLOW versions)			STANDARD DEPTH -20 Inches-		MODEL NO. SHALLOW DEPTH	SHALLOW DEPTH -12 Inches-	
	INLET ID Inside Dimension (inch x inch)	GRATE OD Outside Dimension (inch x inch)	TOTAL BYPASS CAPACITY (cu. ft. / sec.)	SOLIDS STORAGE CAPACITY (cu. ft.)	FILTERED FLOW (cu. ft. / sec.)		SOLIDS STORAGE CAPACITY (cu. ft.)	FILTERED FLOW (cu. ft. / sec.)
FGP-12F	12 X 12	12 X 14	2.8	0.3	0.4	FGP-12F8	.15	.25
FGP-16F	16 X 16	16 X 19	4.7	0.8	0.7	FGP-16F8	.45	.4
FGP-18F	18 X 18	18 X 20	4.7	0.8	0.7	FGP-18F8	.45	.4
FGP-1824F	16 X 22	18 X 24	5.0	1.5	1.2	FGP-1824F8	.85	.7
FGP-1836F	18 X 36	18 X 40	6.9	2.3	1.6	FGP-1836F8	1.3	.9
FGP-2024F	18 X 22	20 X 24	5.9	1.2	1.0	FGP-2024F8	.7	.55
FGP-21F	22 X 22	22 X 24	6.1	2.2	1.5	FGP-21F8	1.25	.85
FGP-24F	24 X 24	24 X 27	6.1	2.2	1.5	FGP-24F8	1.25	.85
FGP-2430F	24 X 30	26 X 30	7.0	2.8	1.8	FGP-2430F8	1.6	1.05
FGP-2436F	24 X 36	24 X 40	8.0	3.4	2.0	FGP-2436F8	1.95	1.15
FGP-2448F	24 X 48	26 X 48	9.3	4.4	2.4	FGP-2448F8	2.5	1.35
FGP-28F	28 X 28	32 X 32	6.3	2.2	1.5	FGP-28F8	1.25	.85
FGP-30F	30 X 30	30 X 34	8.1	3.6	2.0	FGP-30F8	2.05	1.15
FGP-36F	36 X 36	36 X 40	9.1	4.6	2.4	FGP-36F8	2.65	1.35
FGP-3648F	36 X 48	40 X 48	11.5	6.8	3.2	FGP-3648F8	3.9	1.85
FGP-48F	48 X 48	48 X 54	13.2	9.5	3.9	FGP-48F8	5.45	2.25
FGP-SD24F	24 X 24	28 X 28	6.1	2.2	1.5	FGP-SD24F8	1.25	.85

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Catch Basin Insert Filter
Grated Inlet Style

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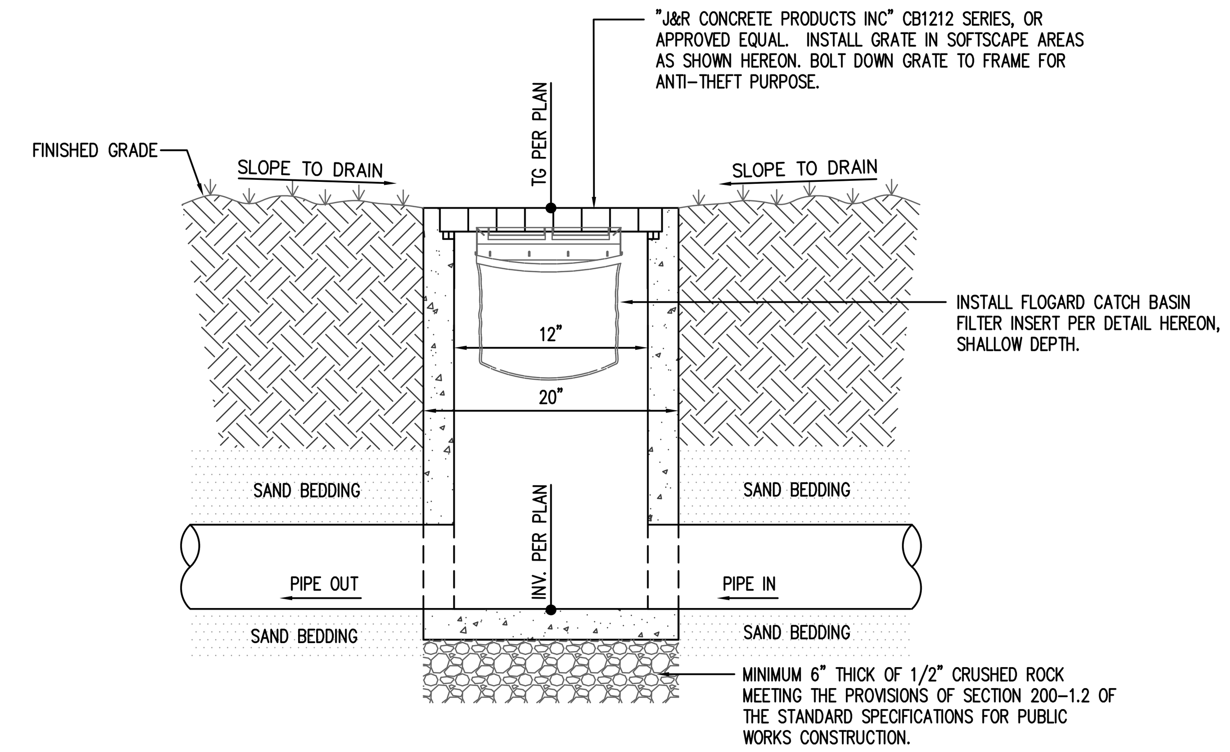
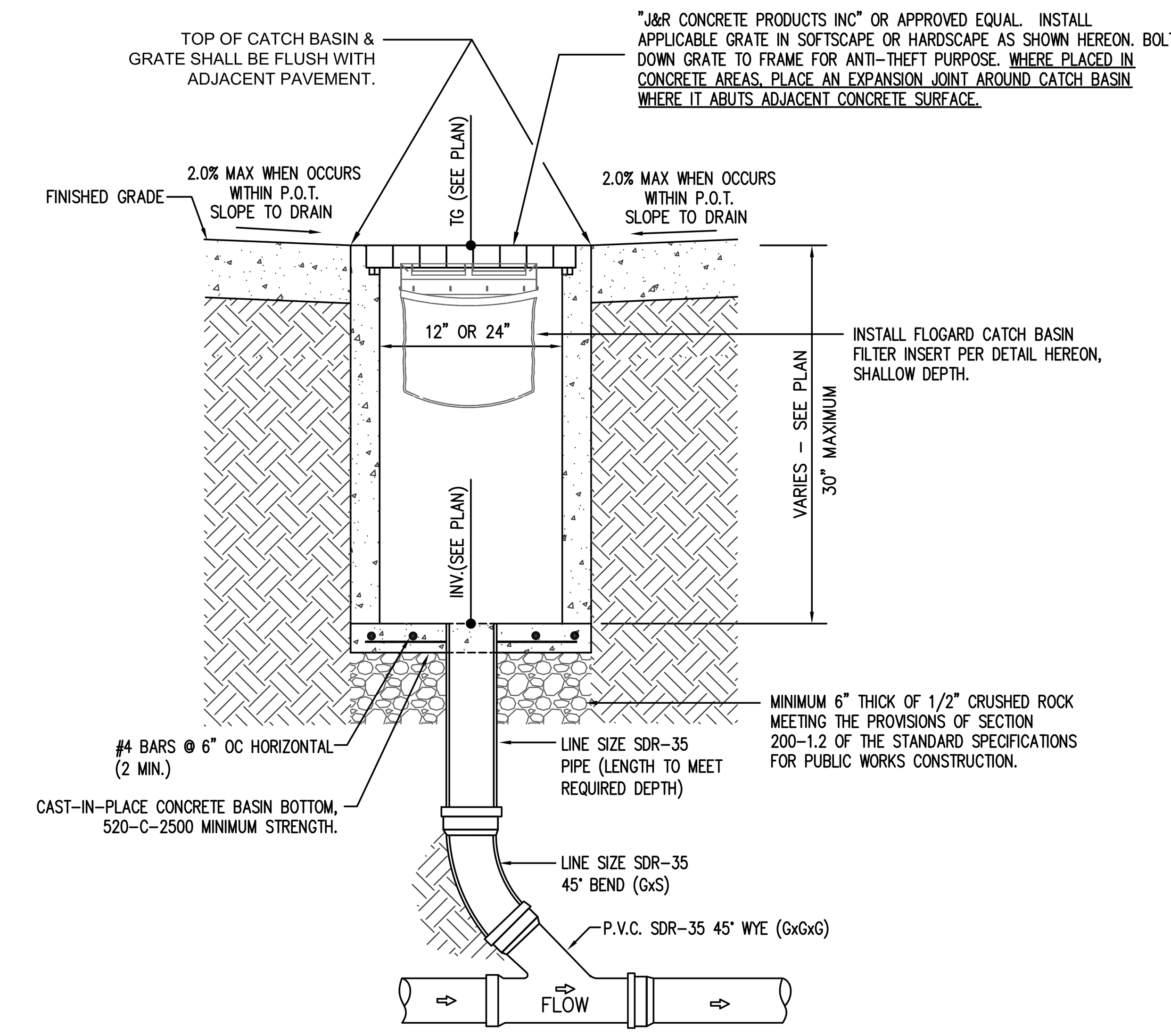
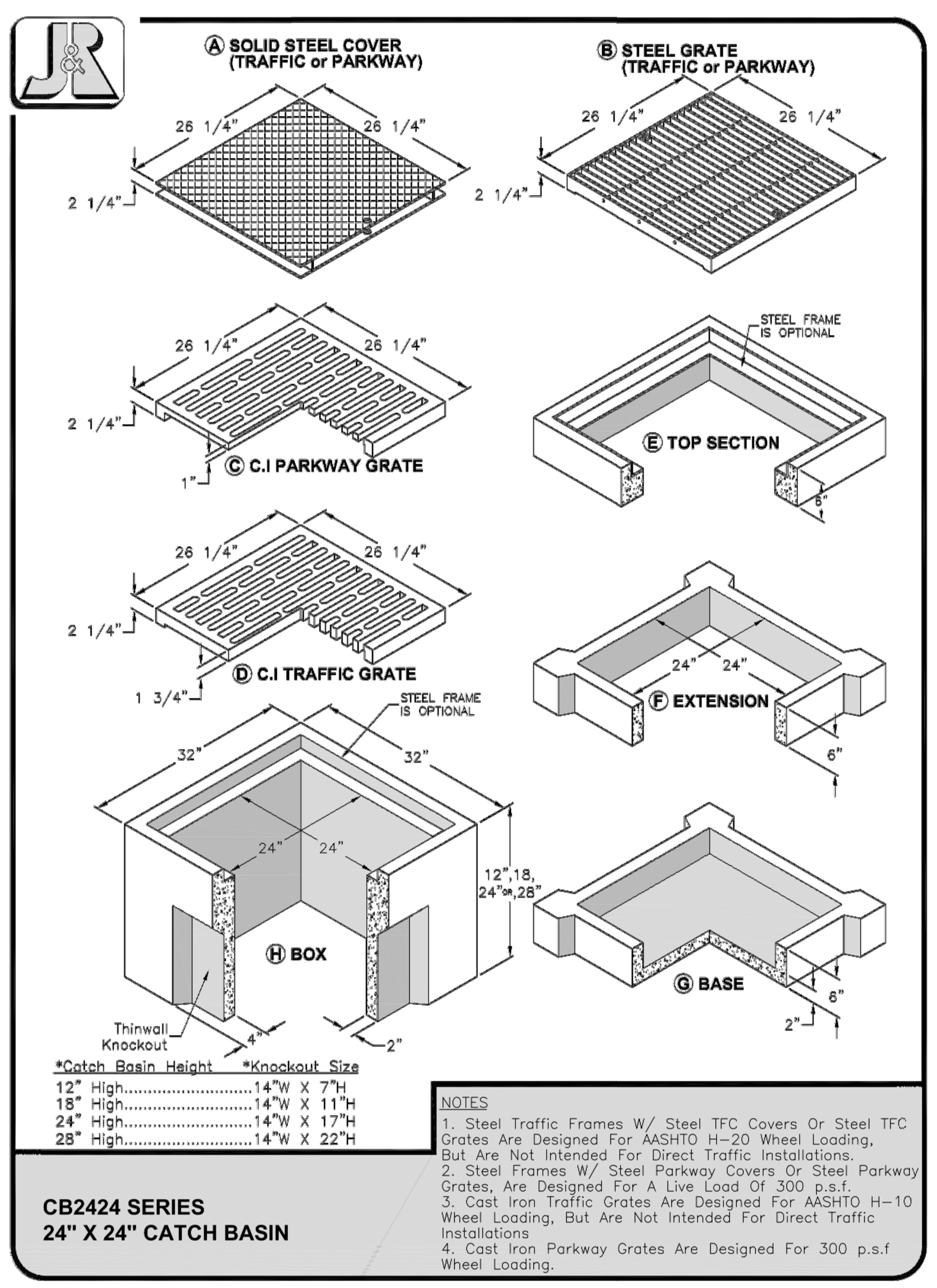
DRAWING NO. FGP-0001 | REV G | ECO ECO-0142 JPR 7/13/16 | DATE JPR 11/3/06 | SHEET 2 OF 2



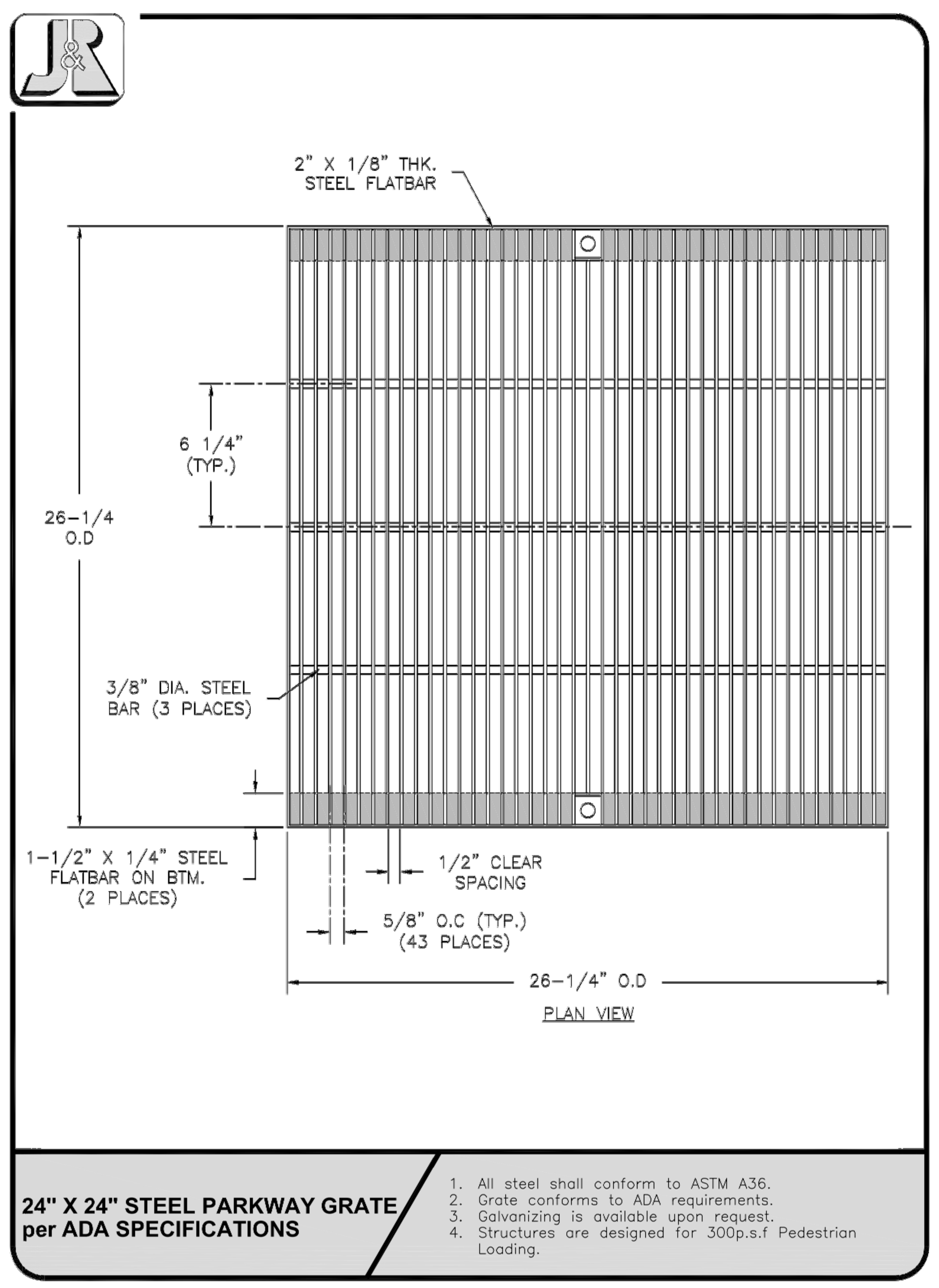
3A 12" SQUARE CATCH BASIN DETAIL



3A 3B CATCH BASIN DETAIL
DEPTH GREATER THAN 2'-6"
NOT TO SCALE



3B 24" x 24" CATCH BASIN DETAIL
NOT TO SCALE



3B 24" ADA PARKWAY GRATE DETAIL

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APP. 03-119686 INC:
REVIEWED FOR
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DATE: 10/14/2019

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REGISTERED PROFESSIONAL ENGINEER ALAN WING-CHI LEE No. C 34971 Exp. 09-30-19 CIVIL STATE OF CALIFORNIA

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COMPTON COLLEGE
STUDENT SERVICES BLDG.

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owner

tBP project number : 20987.00
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drawn by: FPL checked by: A. Lee
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GRADING DETAIL SHEET

drawing no.:
C1.4

POTABLE WATER CONSTRUCTION NOTES:

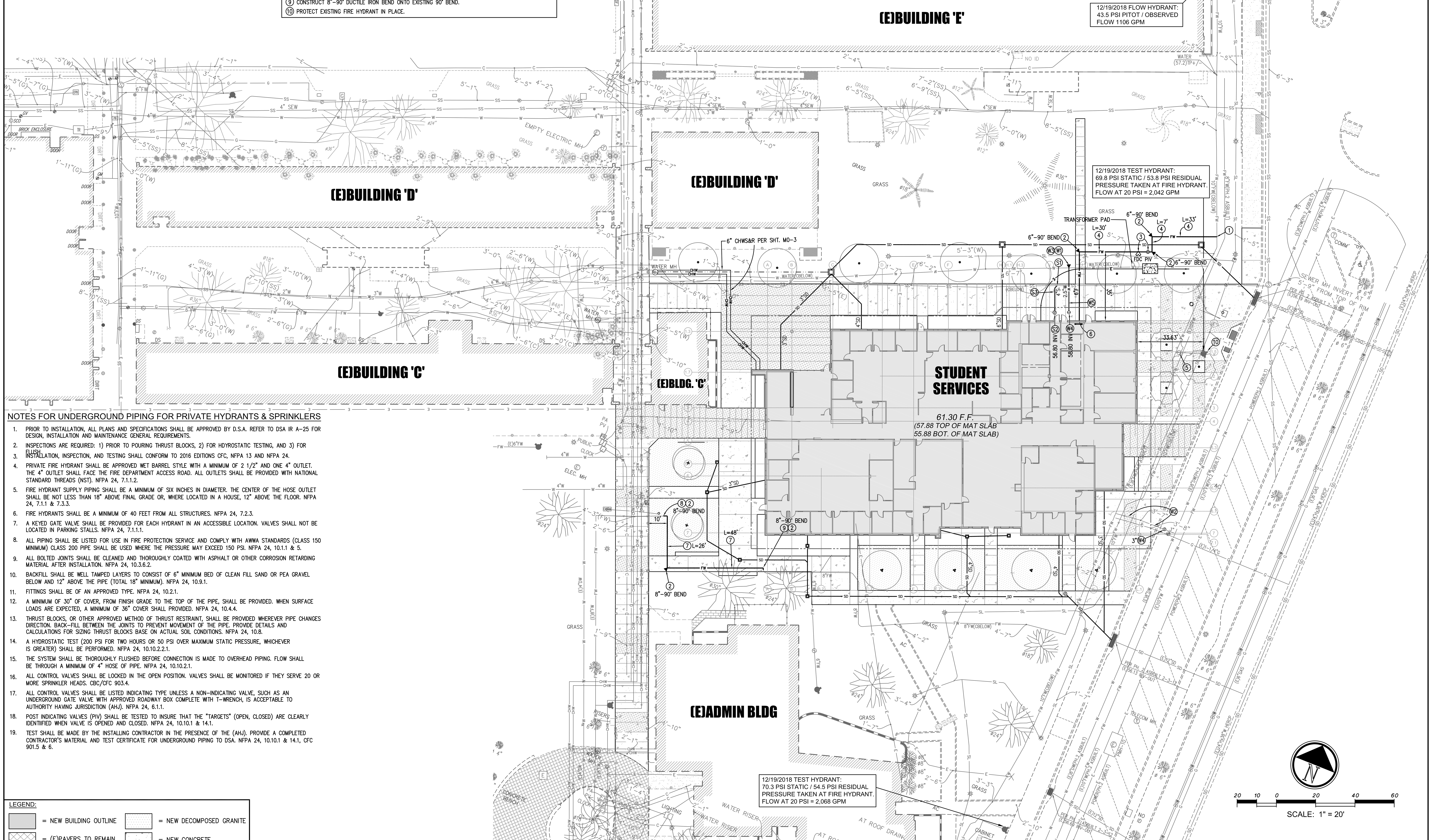
- W1 CONSTRUCT CONCRETE THRUST BLOCK PER DETAIL W1 ON C1.6.
- W2 REMOVE EXISTING 3" WATER LINE.
- W3 CONNECT TO EXISTING 4" WATER LINE WITH APPLICABLE COUPLINGS AND FITTINGS.
- W4 CONSTRUCT EPOXY COATED SHUT-OFF VALVE IN YARDBOX TO MATCH LINE SIZE PER DETAIL W4 ON C1.6.
- W5 CONSTRUCT 2.5" SCH. 80 P.V.C. PIPE, FITTINGS, AND COUPLINGS. CONSTRUCT PER APPLICABLE TRENCHING DETAIL ON SHEET C1.3.

SANITARY SEWER CONSTRUCTION NOTES:

- S1 CONNECT NEW SEWER PIPE TO EXISTING 4" SEWER PIPE WITH FERNCO RUBBER COUPLING OR EQUAL.
- S2 CONSTRUCT SEWER CLEAN OUT & YARD BOX PER DETAIL S3 ON SHEET C1.6.
- S3 CONSTRUCT 4" SDR-35 P.V.C. PIPE AND FITTINGS. CONSTRUCT PER APPLICABLE TRENCHING DETAIL ON SHEET C1.3.

FIRE WATER CONSTRUCTION NOTES:

1. HOT TAP EXISTING 10" WATER LINE WITH EPOXY COATED M.J. SLEEVE. CONTRACTOR SHALL POTHOLE AND ASCERTAIN THE EXACT SIZE OF THE EXISTING PIPING PRIOR TO ORDERING THE TAPPING SLEEVE.
2. CONSTRUCT CONCRETE THRUST BLOCK PER DETAIL W6 ON C1.6.
3. CONSTRUCT POST INDICATOR VALVE & FIRE DEPARTMENT CONNECTION PER DETAIL 3 ON C1.6.
4. CONSTRUCT 6" A.W.W.A. C900, CLASS 235, P.V.C. PIPE. CONSTRUCT PER APPLICABLE TRENCHING DETAIL ON C1.3. CONSTRUCT WATER MAIN VERTICAL OFFSET PER DETAIL 4 ON C1.6 WHERE UTILITY CONFLICTS ARE IDENTIFIED DURING CONSTRUCTION.
5. ADJUST EXISTING WATER VALVE TO BE FLUSH WITH NEW FINISH SURFACE.
6. SEE FIRE SPRINKLER UNDERGROUND STUB-UP DETAIL 6 ON C1.6.
7. CONSTRUCT 8" A.W.W.A. C900, CLASS 235, P.V.C. PIPE. CONSTRUCT PER APPLICABLE TRENCHING DETAIL ON C1.3.
8. CUT INTO EXISTING 8" FIRE WATER LINE PER DETAIL 8 ON C1.6.
9. CONSTRUCT 8"-90° DUCTILE IRON BEND ONTO EXISTING 90° BEND.
10. PROTECT EXISTING FIRE HYDRANT IN PLACE.



NOTES FOR UNDERGROUND PIPING FOR PRIVATE HYDRANTS & SPRINKLERS

1. PRIOR TO INSTALLATION, ALL PLANS AND SPECIFICATIONS SHALL BE APPROVED BY D.S.A. REFER TO DSA IR A-25 FOR DESIGN, INSTALLATION AND MAINTENANCE GENERAL REQUIREMENTS.
2. INSPECTIONS ARE REQUIRED: 1) PRIOR TO POURING THRUST BLOCKS, 2) FOR HDYROSTATIC TESTING, AND 3) FOR FLUSH.
3. INSTALLATION, INSPECTION, AND TESTING SHALL CONFORM TO 2016 EDITIONS CFC, NFPA 13 AND NFPA 24.
4. PRIVATE FIRE HYDRANT SHALL BE APPROVED WET BARREL STYLE WITH A MINIMUM OF 2 1/2" AND ONE 4" OUTLET. THE 4" OUTLET SHALL FACE THE FIRE DEPARTMENT ACCESS ROAD. ALL OUTLETS SHALL BE PROVIDED WITH NATIONAL STANDARD THREADS (NST). NFPA 24, 7.1.1.2.
5. FIRE HYDRANT SUPPLY PIPING SHALL BE A MINIMUM OF SIX INCHES IN DIAMETER. THE CENTER OF THE HOSE OUTLET SHALL BE NOT LESS THAN 18" ABOVE FINAL GRADE OR, WHERE LOCATED IN A HOUSE, 12" ABOVE THE FLOOR. NFPA 24, 7.1.1 & 7.3.3.
6. FIRE HYDRANTS SHALL BE A MINIMUM OF 40 FEET FROM ALL STRUCTURES. NFPA 24, 7.2.3.
7. A KEYED GATE VALVE SHALL BE PROVIDED FOR EACH HYDRANT IN AN ACCESSIBLE LOCATION. VALVES SHALL NOT BE LOCATED IN PARKING STALLS. NFPA 24, 7.1.1.1.
8. ALL PIPING SHALL BE LISTED FOR USE IN FIRE PROTECTION SERVICE AND COMPLY WITH AWWA STANDARDS (CLASS 150 MINIMUM) CLASS 200 PIPE SHALL BE USED WHERE THE PRESSURE MAY EXCEED 150 PSI. NFPA 24, 10.1.1 & 5.
9. ALL BOLTED JOINTS SHALL BE CLEANED AND THOROUGHLY COATED WITH ASPHALT OR OTHER CORROSION RETARDING MATERIAL AFTER INSTALLATION. NFPA 24, 10.3.6.2.
10. BACKFILL SHALL BE WELL TAMPED LAYERS TO CONSIST OF 6" MINIMUM BED OF CLEAN FILL SAND OR PEA GRAVEL BELOW AND 12" ABOVE THE PIPE (TOTAL 18" MINIMUM). NFPA 24, 10.9.1.
11. FITTINGS SHALL BE OF AN APPROVED TYPE. NFPA 24, 10.2.1.
12. A MINIMUM OF 30" OF COVER, FROM FINISH GRADE TO THE TOP OF THE PIPE, SHALL BE PROVIDED. WHEN SURFACE LOADS ARE EXPECTED, A MINIMUM OF 36" COVER SHALL PROVIDED. NFPA 24, 10.4.4.
13. THRUST BLOCKS, OR OTHER APPROVED METHOD OF THRUST RESTRAINT, SHALL BE PROVIDED WHEREVER PIPE CHANGES DIRECTION. BACK-FILL BETWEEN THE JOINTS TO PREVENT MOVEMENT OF THE PIPE. PROVIDE DETAILS AND CALCULATIONS FOR SIZING THRUST BLOCKS BASE ON ACTUAL SOIL CONDITIONS. NFPA 24, 10.8.
14. A HYDROSTATIC TEST (200 PSI FOR TWO HOURS OR 50 PSI OVER MAXIMUM STATIC PRESSURE, WHICHEVER IS GREATER) SHALL BE PERFORMED. NFPA 24, 10.10.2.2.1.
15. THE SYSTEM SHALL BE THOROUGHLY FLUSHED BEFORE CONNECTION IS MADE TO OVERHEAD PIPING. FLOW SHALL BE THROUGH A MINIMUM OF 4" HOSE OF PIPE. NFPA 24, 10.10.2.1.
16. ALL CONTROL VALVES SHALL BE LOCKED IN THE OPEN POSITION. VALVES SHALL BE MONITORED IF THEY SERVE 20 OR MORE SPRINKLER HEADS. CBC/CFC 903.4.
17. ALL CONTROL VALVES SHALL BE LISTED INDICATING TYPE UNLESS A NON-INDICATING VALVE, SUCH AS AN UNDERGROUND GATE VALVE WITH APPROVED ROADWAY BOX COMPLETE WITH T-WRENCH, IS ACCEPTABLE TO AUTHORITY HAVING JURISDICTION (AHJ). NFPA 24, 6.1.1.
18. POST INDICATING VALVES (PIV) SHALL BE TESTED TO INSURE THAT THE "TARGETS" (OPEN, CLOSED) ARE CLEARLY IDENTIIFIED WHEN VALVE IS OPENED AND CLOSED. NFPA 24, 10.10.1 & 14.1.
19. TEST SHALL BE MADE BY THE INSTALLING CONTRACTOR IN THE PRESENCE OF THE (AHJ). PROVIDE A COMPLETED CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR UNDERGROUND PIPING TO DSA. NFPA 24, 10.10.1 & 14.1, CFC 901.5 & 6.

LEGEND:

- = NEW BUILDING OUTLINE
- = NEW DECOMPOSED GRANITE
- = (E)PAVERS TO REMAIN
- = NEW CONCRETE
- = (E)BUILDING (TO REMAIN)

— — - - — —	NEW STUDENT SERVICES BUILDING PROPOSED LIMITS OF MAT SLAB
—SD—SD—	(E)STORM DRAIN
—SD—SD—	NEW STORM DRAIN
—W—W—	(E)DOMESTIC WATER
—W—W—	NEW DOMESTIC WATER
—FW—FW—	(E)FIRE WATER
—FW—FW—	NEW FIRE WATER
—SS—SS—	(E)SANITARY SEWER
—G—G—	(E)GAS
—E—E—	(E)ELECTRICAL/POWER
—C—C—	(E)COMMUNICATIONS
—CHW—CHW—	(E)CHILLED/HOT WATER
—SL—SL—	(E)LIGHTING CONDUIT

1'-6"
DEPTH FROM SURFACE

DEPTH OF (E)UTILITY ARE APPROXIMATE AND PROVIDED FROM THE UNDERGROUND UTILITY MAPPING SURVEY. ESTIMATED DEPTHS ARE FROM THE GROUND SURFACE TO THE CENTER OF THE FACILITY, INVERT OF WASTE LINES, OR TO THE FACILITY TRACER WIRE. DEPTH ESTIMATES SHOULD BE USED WITH CAUTION AND MAY VARY ALONG THE LENGTH OF THE FACILITY.

NOTES TO CONTRACTOR:

A. THE POST INDICATOR VALVE(PIV) SHALL BE SET SO THAT THE TOP OF THE POST WILL BE 32 TO 40" ABOVE FINISHED GRADE PER NFPA 24, 6.3.1.
B. ALL MECHANICAL JOINTS ON FIRE SERVICE LINES AND FIRE SPRINKLER LATERALS SHALL BE CLEANED AND THOROUGHLY COATED WITH CORROSION RETARDING MATERIAL PER NFPA 24, 10.4.1.1.

NOTE TO CONTRACTOR: BEFORE TRENCHING OCCURS, THE CONTRACTOR SHALL COMPLETE AN UNDERGROUND UTILITY MAPPING SURVEY ALONG THE PROPOSED TRENCHING ROUTE TO DETERMINE WERE EXISTING UTILITIES ARE AND WHERE POSSIBLE UNDERGROUND CONFLICTS MAY OCCUR.

CORROSION PROTECTION NOTE: PER PROJECT SPECIFICATION 33 10 00, ALL DUCTILE IRON PIPE AND FITTINGS BURIED UNDERGROUND SHALL BE PROTECTED WITH DOUBLE WRAPPED PLASTIC FILM IN ACCORDANCE WITH AWWA C105 "AMERICAN NATIONAL STANDARD FOR POLYETHYLENE ENCASEMENT FOR DUCTILE-IRON PIPE SYSTEMS". EACH WRAP SHALL BE A MINIMUM THICKNESS OF 8-MIL. GATE VALVES AND MECHANICAL RESTRAINT DEVICES SHALL BE WRAPPED WITH 3 LAYERS OF 8-MIL POLYETHYLENE.

20 10 0 20 40 60
SCALE: 1" = 20'

GENERAL UTILITY NOTES

1. ALL SCOPE OF WORK SHOWN ON THIS PLAN SHALL BE VERIFIED BY THE OWNER PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL MEET WITH THE OWNERS REPRESENTATIVE PRIOR TO CONSTRUCTION.
2. THE CONTRACTOR SHALL VERIFY THE LOCATION AND QUANTITY OF EXISTING UNDERGROUND UTILITIES AND SHALL BE SOLELY RESPONSIBLE FOR THEIR REMOVAL, RELOCATION AND TIE-INS TO PROPOSED UTILITIES
3. CONTRACTOR SHALL COORDINATE WITH OWNER AND ARRANGE TO SHUT OFF UTILITIES WITH EACH UTILITY COMPANY FOR UTILITIES AFFECTED BY THE SCOPE OF THIS PROJECT.
4. DAMAGE TO ANY EXISTING UTILITIES AND SERVICES WHICH ARE TO REMAIN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL REPAIR AND/OR REPLACE IN KIND.
5. THE CONTRACTOR SHALL TRENCH AND REMOVE ALL EXISTING UNDERGROUND STRUCTURES, UTILTIES OR IMPROVEMENTS AS REQUIRED TO COMPLETE THE SCOPE OF WORK AND BACKFILL TO THE EXISTING GRADE OR FUTURE GRADE AS SHOWN ON THE GRADING PLAN..
6. THE CONTRACTOR SHALL NOT ABANDON-IN-PLACE ANY EXISTING UNDERGROUND STRUCTURE, UTILITY, OR IMPROVEMENT SO DESIGNATED FOR REMOVAL ON THE PROJECT PLANS UNLESS DIRECTED TO BY THE OWNER.
7. CONTRACTOR SHALL FIELD VERIFY THE REMOVAL OF EXISTING UTILITIES WILL NOT IMPACT ADJACENT BUILDINGS AND CAMPUS TO REMAIN FUNCTIONAL DURING THE ENTIRE DURATION OF DEMOLITION AND CONSTRUCTION OF THE PROJECT.
8. FOR CONSTRUCTION OF ELECTRICAL, COMMUNICATION CONDUITS, LIGHT AND POWER POLES SEE SHEET ES-2 FOR SITE ELECTRIAL, ES-3 FOR SITE LIGHTING AND EF-4 FOR SITE FIRE ALARM.
9. CONTRACTOR IS RESPONSIBLE TO KEEP ALL UTILITES OPERATIONAL THAT SERVES FACILITIES OUTSIDE THE SCOPE OF THE DEMOLITION ZONE.

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drawing no.:
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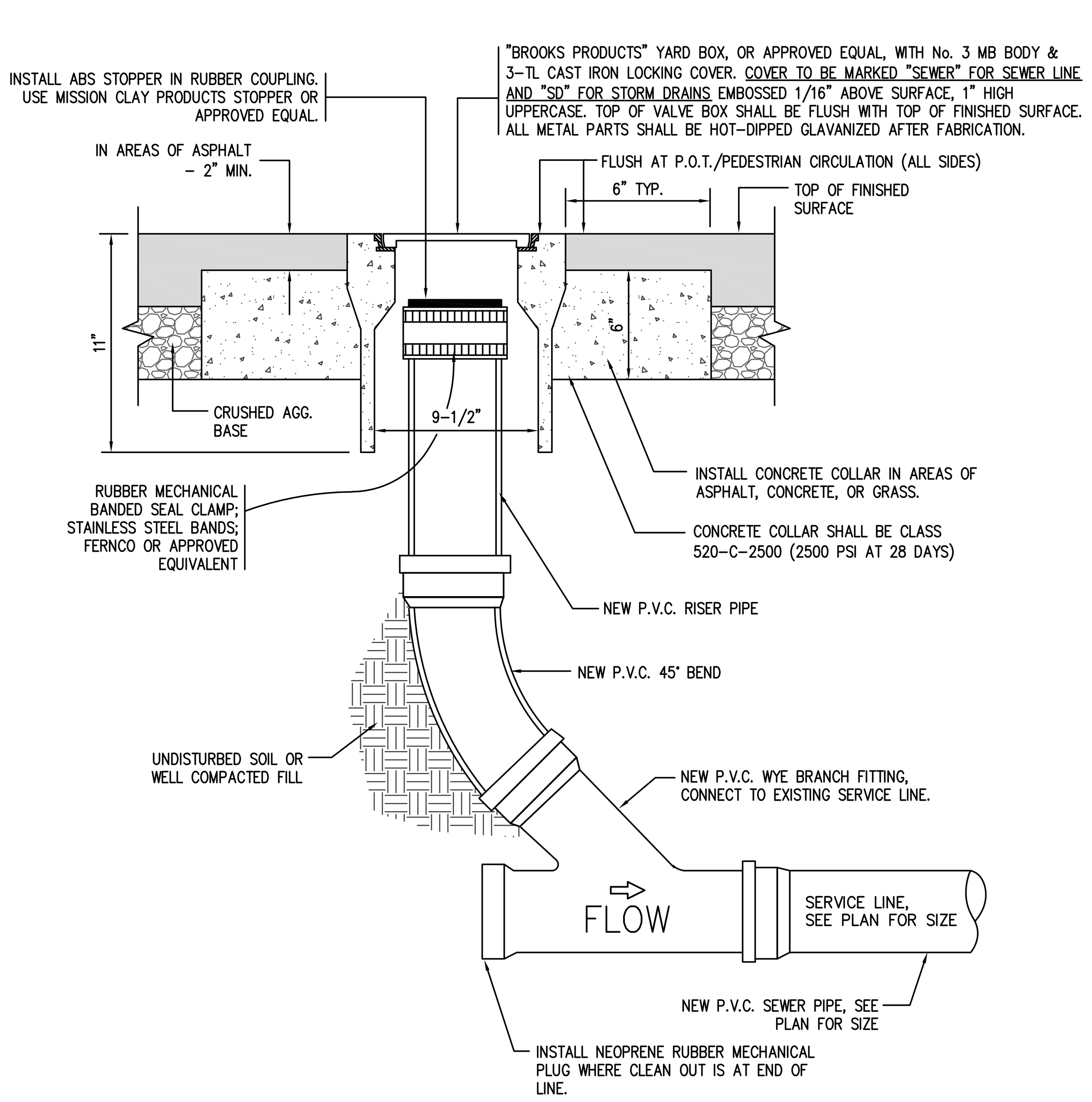
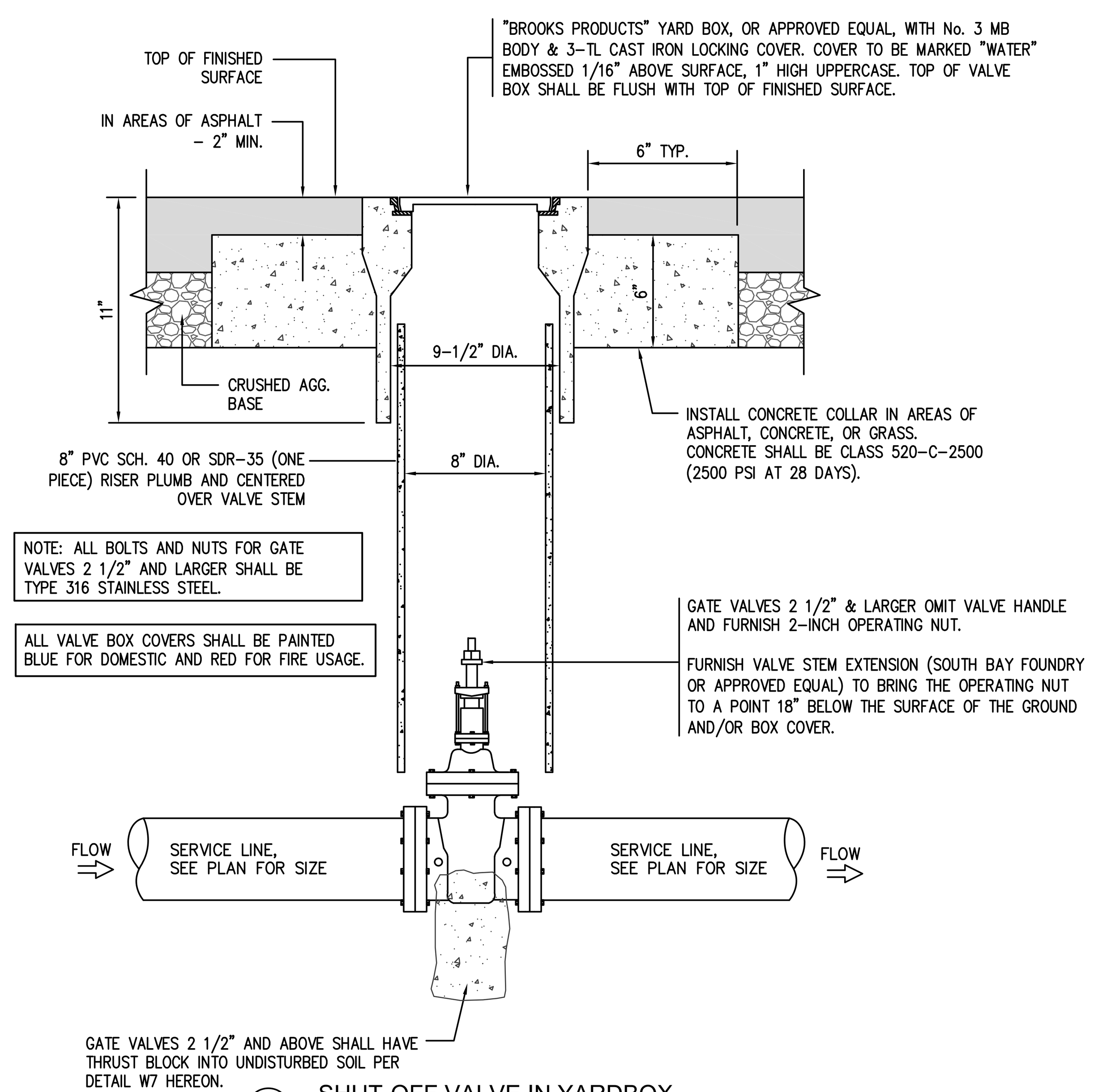
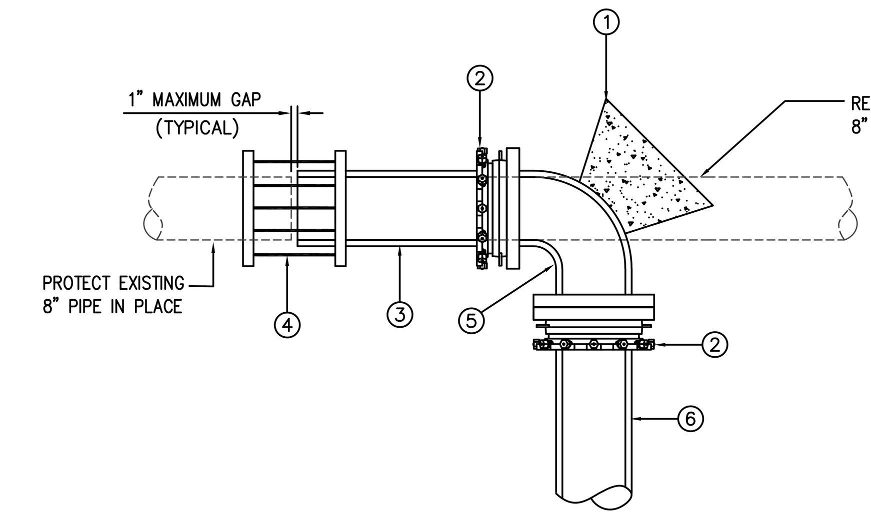


S3 SEWER CLEAN OUT & VALVE BOX DETAIL
NOT TO SCALE



W4 SHUT-OFF VALVE IN YARDBOX
2-1/2" AND ABOVE
NOT TO SCALE



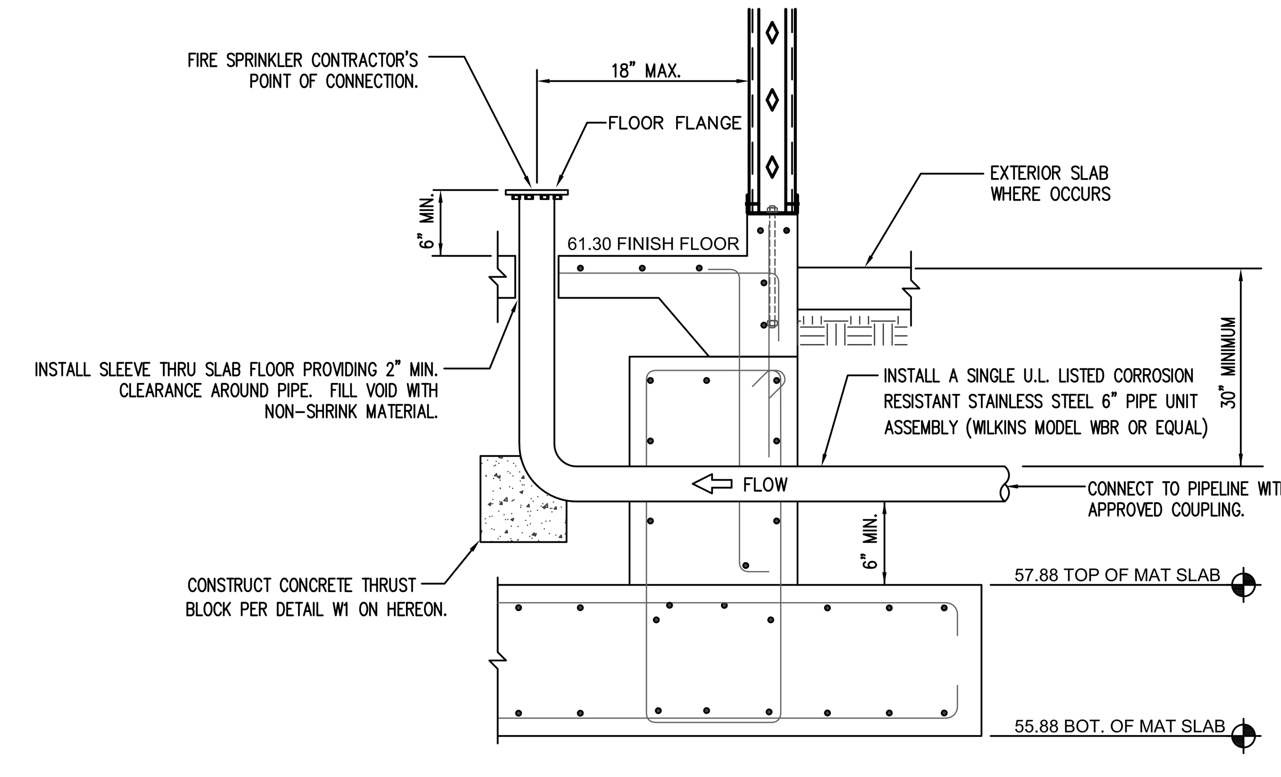
6 CUT-IN DETAIL
NOT TO SCALE

CUT-IN TEE CONSTRUCTION NOTES:

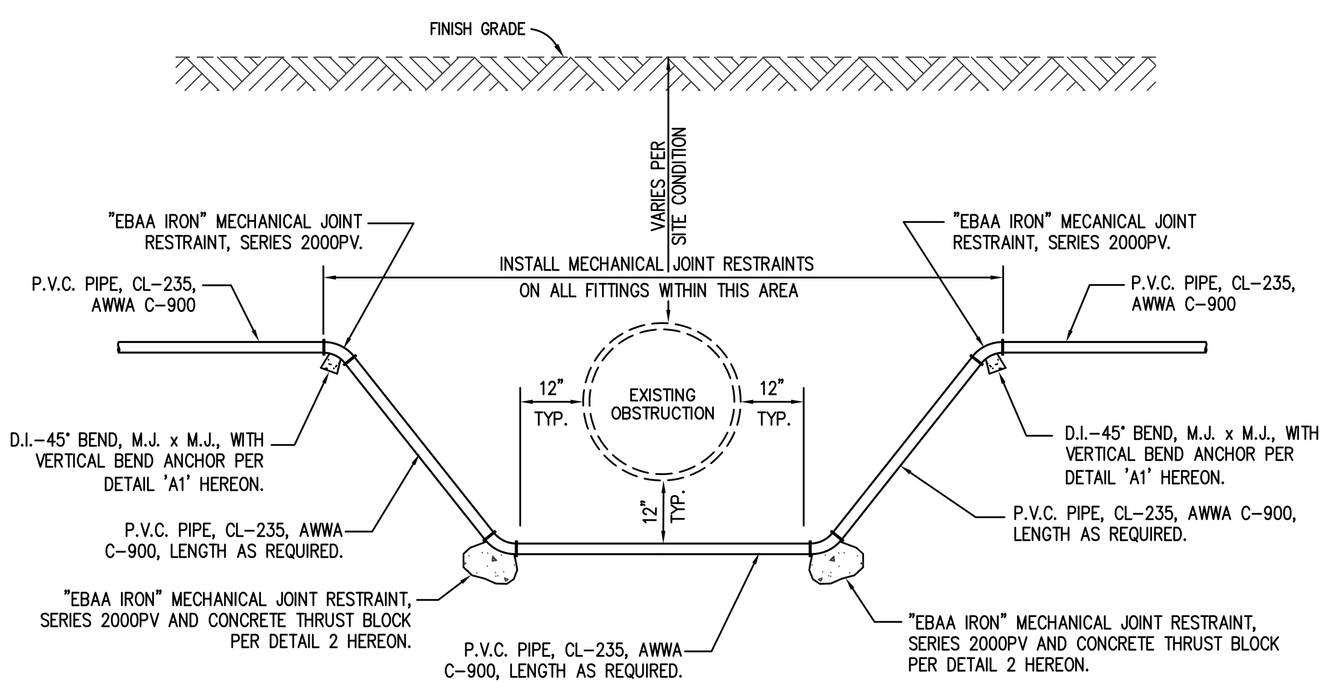
* ALL BOLTS SHALL BE STAINLESS STEEL TYPE 316.

1. CONSTRUCT CONCRETE THRUST BLOCK PER DETAIL W1 HEREON.
2. INSTALL "EBAA IRON" 8" MEGALUG MECHANICAL JOINT RESTRAINT, SERIES 2008PV, OR APPROVED EQUAL.
3. INSTALL 8" P.V.C. PRESSURE PIPE, A.W.W.A. C900, DR 18, MINIMUM LENGTH 18"
4. INSTALL 8" "SMITH-BLAIR" MODEL 411 STEEL COUPLING WITH 10" SLEEVE, OR APPROVED EQUAL.
5. INSTALL 8" D.I. 90° BEND, M.J. X M.J.
6. INSTALL 8" AWWA C-900, DR 18, PVC PIPE.

NOTE: MECHANICAL RESTRAINT DEVICES & COUPLINGS SHALL BE WRAPPED WITH 3 LAYERS OF 8-MIL POLYETHLYENE AFTER ASSEMBLY.

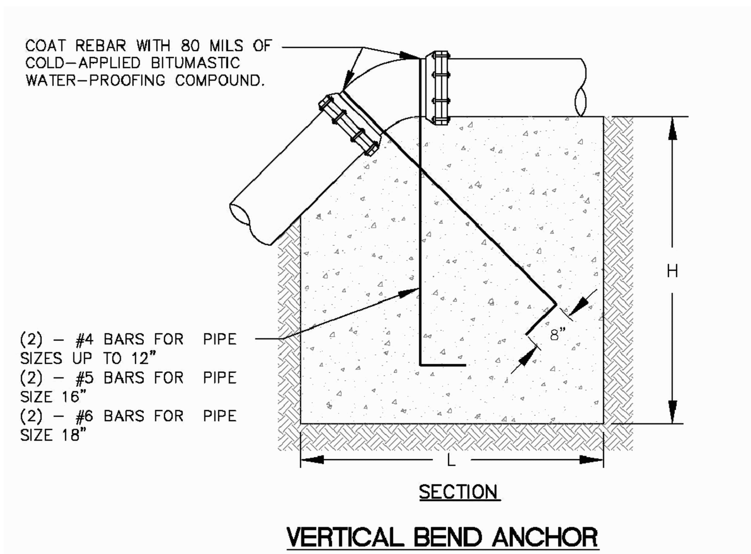


6 FIRE SPRINKLER UNDERGROUND STUB-UP DETAIL
NOT TO SCALE



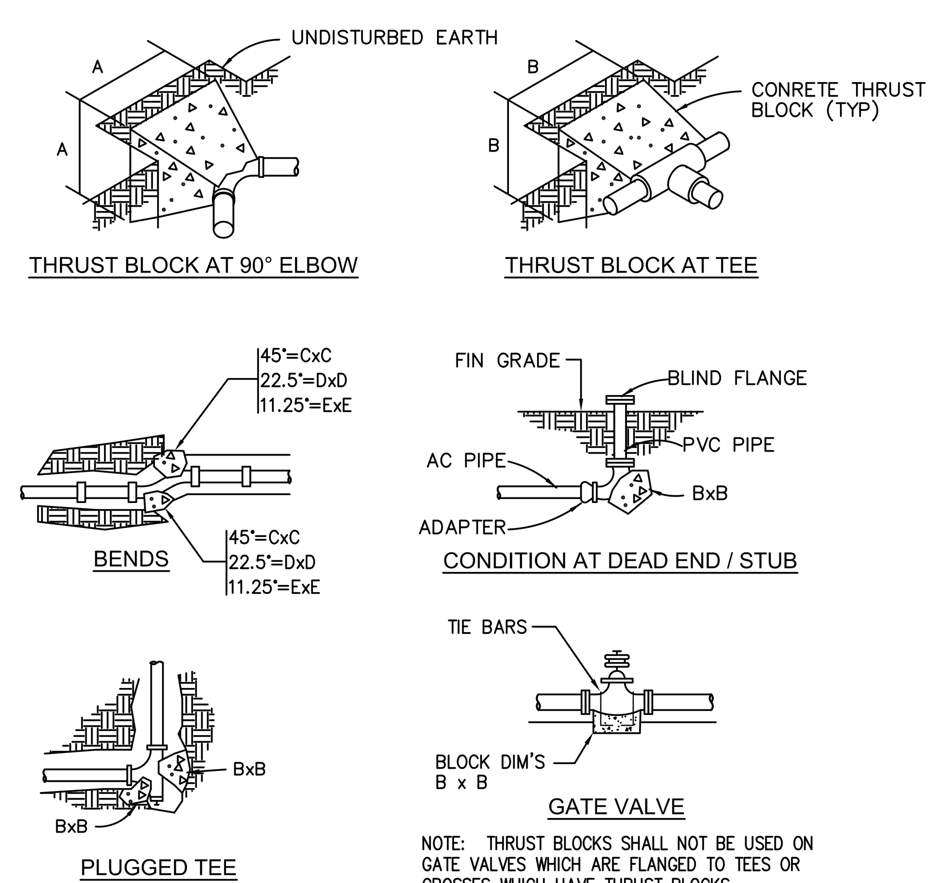
CONSTRUCT WHERE CONDITIONS REQUIRE WATER MAIN VERTICAL OFFSET DUE TO EXISTING OBSTRUCTION
DOES NOT APPLY TO SEWER - WATER SHALL ALWAYS CROSS SEWER OVER TOP

4 WATER MAIN VERTICAL OFFSET
NOT TO SCALE



VERTICAL BEND ANCHOR						
PIPE SIZE	22 1/2° BEND L,H, AND W(IN)	VOLUME (YD³)	THRUST (LBS)	45° BEND L,H, AND W(IN)	VOLUME (YD³)	THRUST (LBS)
4"	26	0.4	1104	32	0.7	2165
6"	34	0.8	2483	42	1.6	4871
8"	41	1.5	4414	51	2.8	8659
10"	47	2.2	6897	59	4.4	13529
12"	53	3.2	9932	67	6.4	19482
16"	64	5.6	17657	81	11.4	34635
18"	70	7.4	22347	87	14.1	43835

A1 VERTICAL BEND ANCHOR DETAIL
NOT TO SCALE



NOTE: THRUST BLOCKS SHALL NOT BE USED ON GATE VALVES WHICH ARE FLANGED TO TEES OR CROSSES WHICH HAVE THRUST BLOCKS.

PIPE SIZE (INCHES)	90° ELBOW	TEE / STUB	45° BEND	22.5° BEND	11.25° BEND
	A	B	C	D	E
2	12"	10"	9"	7"	5"
3	18"	15"	13"	10"	7"
4	24"	20"	18"	13"	9"
6	34"	29"	25"	18"	13"
8	45"	38"	33"	24"	17"
10	55"	46"	40"	29"	21"
12	65"	55"	48"	34"	24"

W1 CONCRETE THRUST BLOCK DETAILS
NOT TO SCALE

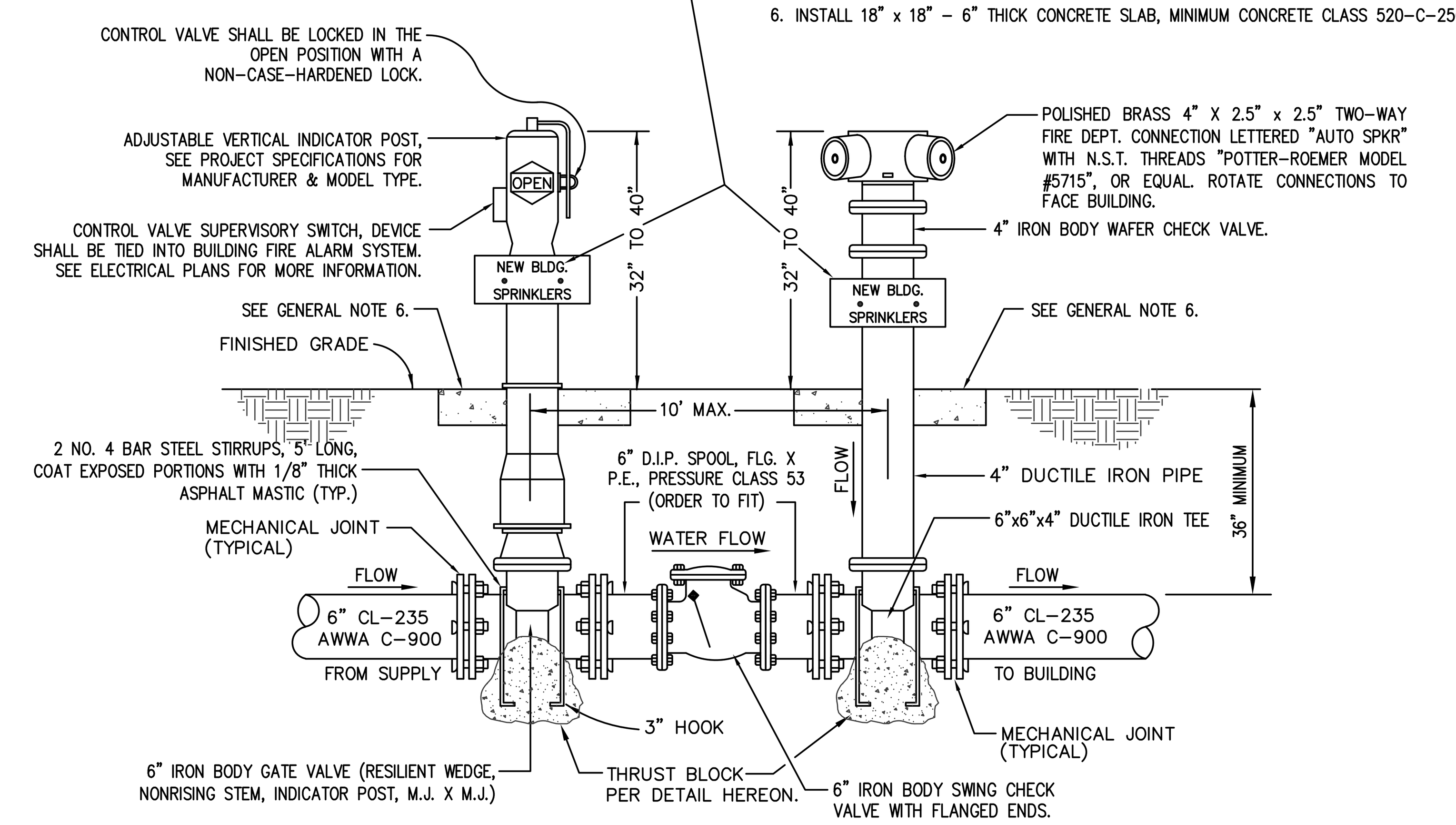
GENERAL NOTES:

1. ALL DUCTILE IRON FITTINGS BURIED UNDERGROUND SHALL BE PROTECTED WITH PLASTIC FILM WRAP IN ACCORDANCE WITH AWWA C105. WRAP SHALL BE A LOOSE 8'-MIL-THICK POLYETHYLENE TUBE. ALL JOINTS BETWEEN PLASTIC TUBES SHALL BE WRAPPED WITH 2-INCH-WIDE POLYETHYLENE ADHESIVE TAPE, POLYKEN 900, SCOTCH WRAP 50, OR APPROVED EQUAL.
2. THRUST BLOCK AREAS ARE BASED ON 200 PSI PRESSURE AND 2,000 PSF ALLOWABLE SOIL BEARING PRESSURE & SIZED PER N.F.P.A. 24, TABLE A.10.6.1(a), 2016 EDITION. SOIL BEARING PRESSURE OF 2,000 ALLOWABLE PER SOILS REPORT.
3. ALL BOLTS AND STUDS SHALL BE TYPE 316 STAINLESS STEEL PER ASTM A193 GRADE B8M. NUTS AND WASHERS SHALL BE TYPE 316 STAINLESS STEEL PER ASTM A194 GRADE 8M.
4. THRUST BLOCKS SHALL BE INSTALLED AT EVERY CHANGE OF DIRECTION.
5. ALL THRUST BLOCKS SHOULD, WHERE POSSIBLE, BE PLACED AGAINST UNDISTURBED SOIL. WHERE IT IS NOT POSSIBLE TO PLACE THE BEARING SURFACE AGAINST UNDISTURBED SOIL, THE FILL BETWEEN THE BEARING SURFACE AND UNDISTURBED SOIL MUST BE COMPACTED TO AT LEAST 90% STANDARD PROCTOR DENSITY (PER N.F.P.A. 24, SECTION A.10.6.1). THEY SHALL BE CENTERED VERTICALLY AND HORIZONTALLY ABOUT THE DIRECTION OF THE THRUST.
6. THRUST BLOCKS SHALL BE CONCRETE CLASS 520-C-2500 PER THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2015 EDITION, SECTION 201-1 WITH TYPE II CEMENT.
7. WHERE WATER MAIN DEAD ENDS ARE BLIND FLANGED OR CAPPED, THE THRUST BLOCK SHALL EXTEND A MINIMUM DISTANCE OF 6" INTO BOTH SIDES OF THE TRENCH.
8. CONCRETE POURED AGAINST PIPE FITTINGS SHALL BE PLACED SO THAT VALVES AND FITTINGS ARE ACCESSIBLE FOR REPAIR.
9. TIE BARS SHALL BE #4 REBAR (PER ASTM 767 AND D3963) OR STAINLESS STEEL WITH ACI HOOKED ENDS. WHEN TIE BARS ARE NOT EMBEDED IN CONCRETE THEY SHALL BE COATED WITH KOPPERS CO. BITUMASTIC NO. 50 OR EQUIVALENT.
10. ALL EXPOSED FLANGES AND OTHER METAL SURFACES AND ALL DAMAGED COATINGS SHALL BE COATED AFTER ASSEMBLY WITH A MASTIC, PER SPECIFICATIONS.
11. CONCRETE SHALL HAVE 3" MINIMUM CLEARANCE AROUND ALL JOINTS.

GENERAL NOTES:

1. ALL DUCTILE IRON FITTINGS BURIED UNDERGROUND SHALL BE PROTECTED WITH PLASTIC FILM WRAP IN ACCORDANCE WITH AWWA C105. WRAP SHALL BE A LOOSE 8'-MIL-THICK POLYETHYLENE TUBE. ALL JOINTS BETWEEN PLASTIC TUBES SHALL BE WRAPPED WITH 2-INCH-WIDE POLYETHYLENE ADHESIVE TAPE, POLYKEN 900, SCOTCH WRAP 50, OR APPROVED EQUAL.
2. ALL BOLTS AND STUDS SHALL BE TYPE 316 STAINLESS STELL PER ASTM A193 GRADE B8M. NUTS AND WASHERS SHALL BE TYPE 316 STAINLESS STEEL PER ASTM A194 GRADE 8M.
3. CONCRETE POURED AGAINST PIPE FITTINGS SHALL BE PLACED SO THAT VALVES AND FITTINGS ARE ACCESSIBLE FOR REPAIR.
4. ALL EXPOSED FLANGES AND OTHER METAL SURFACES AND ALL DAMAGED COATINGS SHALL BE COATED AFTER ASSEMBLY WITH A MASTIC, PER SPECIFICATIONS.
5. THE COMPLETED ABOVE GROUND P.I.V. SHALL BE PAINTED OSHA SAFETY RED.
6. INSTALL 18" x 18" – 6" THICK CONCRETE SLAB, MINIMUM CONCRETE CLASS 520-C-2500.

PROVIDE FDC & PIV SIGNS AS PER NFPA 14, 24 & 13 AS TO TYPE OF SYSTEM AND BUILDINGS SERVED. I.E. "AUTO SPRINKLER" OR "AUTO SPRINKLER & AND BUILDINGS SERVED. I.E. "AUTO SPRINKLER" OR "AUTO SPRINKLER & STANDPIPE" (NFPA 24, 2-6.10). BUILDING UNIT OR NAME TO BE DETERMINED BY OWNER.



6 POST INDICATOR VALVE
NOT TO SCALE

6 FIRE DEPARTMENT CONNECTION
NOT TO SCALE

FIRE DEPARTMENT CONNECTION/
POST INDICATOR VALVE SIGNAGE NOTES

1. ALL SIGNS MUST STATE THE ADDRESS OF THE BUILDING BEING SERVED.
2. THE SIGN SHALL BE METAL, PAINTED WHITE WITH ENGRAVED RED LETTERS 1" HIGH.
3. THE SIGN SHALL INDICATE ONLY ADDRESS OR ZONE AND WHAT IT SERVES, I.E. SPRINKLERS, ON SITE HYDRANTS, ETC.
4. SIGNS SHALL BE A MINIMUM OF FOUR INCHES HIGH BY EIGHT INCHES WIDE.
5. SIGNS SHALL BE PERMANENTLY BANDED TO THE VALVE WITH U-BOLTS.

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drawing no.:
C1.6

Plot Date: 8/30/2019 2:06:05 PM Last Save By: ron.conedy Login: Ron Conedy S:\Jobs\2757 - TBP Architects\2757s - Compton CCD Student Services Building\Civil\Student Services - C1.6 Utility Details.dwg

CONSTRUCTION NOTES:

1. WRITTEN SPECIFICATIONS ARE A PART OF THESE CONSTRUCTION DRAWINGS. DRAWINGS DO NOT CONTAIN ALL INFORMATION NECESSARY FOR CONSTRUCTION.
2. VERIFY LIMITS OF WORK, PROPERTY LINES AND LOTS LINES BEFORE STARTING WORK. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO OFF-SITE PROPERTY.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT, LANDSCAPE ARCHITECT, OR THE ENGINEER, PRIOR TO THE START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED.
4. PRIOR TO BEGINNING OF WORK, VERIFY ALL SITE CONDITIONS INCLUDING UNDERGROUND UTILITIES AND ABOVE GRADE FEATURES SUCH AS GRADING, WALLS, FENCES, LIGHTING, OR OTHER STRUCTURES. CONTRACTOR TO NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY IF ANY ERRORS OR DISCREPANCIES FROM THESE PLANS ARE FOUND, BEFORE PROCEEDING WITH ANY WORK.
5. DO NOT WILLFULLY PROCEED WITH CONSTRUCTION OPERATIONS WHEN IT IS OBVIOUS THAT OBSTRUCTIONS AND/OR GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN APPARENT DURING THE DESIGN PROCESS. BRING THESE CONDITIONS IMMEDIATELY TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR RESOLUTION. ASSUME FULL RESPONSIBILITY FOR COSTS INCURRED AND REQUIRED DUE TO LACK OF PROVIDING SUCH NOTIFICATION.
6. THE LOCATION OF ALL SERVICE RUNS, SUCH AS WATER SUPPLY, ELECTRICAL (OVERHEAD AND UNDERGROUND), TELEPHONE, SANITARY SEWER, ETC. SHOULD BE ASCERTAINED BEFORE WORK IS STARTED, WHERE THEY WILL BE AFFECTED BY EXCAVATION OR WHERE MACHINES MAY BE WORKING NEARBY, THEY SHOULD BE CAREFULLY SEALED, PROTECTED OR DIVERTED. NOTIFY LANDSCAPE ARCHITECT OF ANY CONFLICT WITH PROPOSED IMPROVEMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR COSTS INCURRED DUE TO DAMAGE AND REPLACEMENT OF SAID UTILITIES.
7. WHERE CONFLICTS OCCUR BETWEEN DRAWINGS AND ACTUAL FIELD CONDITION, NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY IN WRITING FOR CLARIFICATION. FAILURE TO PROVIDE NOTIFICATION MAY HOLD CONTRACTOR LIABLE FOR COSTS INCURRED TO RECTIFY THE PROBLEM, IF REQUIRED.
8. PRIOR TO INSTALLATION OF ANY PAVING, REFER TO PROJECT'S GEOTECHNICAL REPORT. REPORT DISCREPANCIES BETWEEN GEOTECHNICAL REPORT'S RECOMMENDATIONS AND INFORMATION NOTED IN THE PAVING SCHEDULE, PAVING DETAILS OR PAVING SPECIFICATIONS.
9. ANY EXISTING MATERIALS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
10. ALL WORK SHALL COMPLY WITH APPLICABLE CODES, STATUTES AND ORDINANCES.
11. COORDINATE CONDUIT, SLEEVES AND EMBEDMENTS PRIOR TO ANY HARDSCAPE CONSTRUCTION.
12. DIMENSION ARE FROM OUTSIDE OF PAVING, WALLS, ETC., UNLESS OTHERWISE NOTED.
13. LOCATIONS OF FEATURES NOT SPECIFICALLY DIMENSIONED MAY BE DETERMINED BY SCALE. CONTACT LANDSCAPE ARCHITECT WHERE CONFLICT OCCURS. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALING OF DRAWINGS.
14. PAVING MOCK-UPS ARE REQUIRED FOR ALL PAVING ON THIS PROJECT. REFER TO PAVING SCHEDULE, PAVING DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
15. OBTAIN APPROVAL OF LANDSCAPE ARCHITECT FOR ALL FORMS PRIOR TO PLACING CONCRETE.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING AND BRACING REQUIRED TO PROTECT PERSONNEL AND ADJACENT PROPERTY DURING CONSTRUCTION. THE CONTRACTOR SHALL ADEQUATELY BRACE ELEMENTS OF THE STRUCTURE DURING CONSTRUCTION TO ENSURE THE SAFETY OF THE SITE AND/OR STRUCTURES.
17. THERE SHALL BE NO DEVIATIONS FROM STRUCTURAL DETAILS WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.
18. NO STRUCTURAL MEMBER SHALL BE CUT, NOTCHED, BORED OR OTHERWISE WEAKENED, EXCEPT AS ALLOWED BY THE 2016 CALIFORNIA BUILDING CODE AND STRUCTURAL ENGINEER ON RECORD.
19. CONTRACTOR SHALL SUBMIT COPIES OF ALL SHOP DRAWINGS TO LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION OF RELATED WORK, AND ALLOW AMPLE TIME FOR LANDSCAPE ARCHITECT'S REVIEW AND COORDINATION PER THE SPECIFICATIONS.
20. THE CONTRACTOR SHALL CAREFULLY STUDY AND COMPARE THE CONTRACT DOCUMENTS WITH EACH OTHER FOR INFORMATION FURNISHED BY THE OWNER AND SHALL IMMEDIATELY REPORT ERRORS, INCONSISTENCIES, OR OMISSIONS DISCOVERED TO THE LANDSCAPE ARCHITECT. THE CONTRACTOR SHALL NOT BE LIABLE TO THE OWNER OR LANDSCAPE ARCHITECT FOR DAMAGE RESULTING FROM ERRORS, INCONSISTENCIES, OR OMISSIONS IN THE CONTRACT DOCUMENTS UNLESS THE CONTRACTOR RECOGNIZED SUCH ERROR, INCONSISTENCY OR OMISSION AND KNOWINGLY FAILED TO REPORT IT TO THE LANDSCAPE ARCHITECT. IF THE CONTRACTOR PERFORMS ANY CONSTRUCTION ACTIVITY KNOWING IT INVOLVES A RECOGNIZED ERROR, INCONSISTENCY OR OMISSION IN THE CONTRACT DOCUMENTS WITHOUT SUCH NOTICE TO THE LANDSCAPE ARCHITECT, THE CONTRACTOR SHALL ASSUME APPROPRIATE RESPONSIBILITY FOR SUCH PERFORMANCE AND SHALL BEAR AND APPROPRIATE AMOUNT OF THE ATTRIBUTABLE COSTS FOR CORRECTION.
21. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, USING THE CONTRACTOR'S BEST SKILL AND ATTENTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR AND HAVE CONTROL OVER CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES, AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
22. TRANSITIONS FROM EXISTING PAVING TO NEW PAVING SHALL BE FLUSH.
23. CONCRETE TO SLOPE FROM FOUNDATIONS AND BUILDINGS TOWARDS DRAIN INLETS AND DRAINAGE SWALES. INSTALL CONCRETE FORMS WITH LONG, SMOOTH GRADIENTS TO ELIMINATE DIPS, RIDGES, ABRUPT CHANGES OF GRADE AND SHARP TRANSITIONS.
24. CONTRACTOR TO NOTIFY LANDSCAPE ARCHITECT WITHIN (4) WORKING DAYS PRIOR TO A CONTRACTOR-REQUESTED SITE MEETING. FAILURE TO PROVIDE APPROPRIATE LEAD TIME MAY RESULT IN CONTRACTOR BEING BACK-CHARGED FOR LANDSCAPE ARCHITECT'S TIME.
25. INSTALL EXPANSION JOINTS AS SHOWN ON PLANS AND WHEREVER PAVING ABUTS ANY VERTICAL SURFACE.
26. SAND THE SEALANT OF EXPANSION JOINTS THAT ABUT VERTICAL SURFACES.
27. SEE ARCHITECT'S DRAWINGS AND SPECIFICATION FOR WATERPROOFING AND WATERPROOFING PROTECTION.
28. VERIFY THAT WATERPROOFING IS COMPLETE AND WATERTIGHT PRIOR TO PAVEMENT INSTALLATION.
29. INSTALL CONCRETE THAT OBTAINS A MINIMUM COMPRESSIVE STRENGTH OF 2,500 P. S. I. AT 28 DAYS UNLESS OTHERWISE SPECIFIED. SUBMIT SAMPLE TO OWNER AND LANDSCAPE ARCHITECT PRIOR TO LAYING OUT FORMS. INSTALL CONCRETE FLATWORK PER RECOMMENDATIONS OF GEOTECHNICAL REPORTS. IN CASE OF CONFLICT BETWEEN SOILS REPORT AND DETAILS, THE MOST STRINGENT REQUIREMENTS WILL APPLY. SEE SPECIFICATIONS.
30. ALL PATHWAYS SHALL HAVE A MAXIMUM SLOPE OF 5% IN THE DIRECTION OF TRAVEL AND A MAXIMUM CROSS-SLOPE OF 2%.

LANDSCAPE SHEET INDEX

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APP. 03-119686 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 10/14/2019

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tBP project number : 20987.00
file name: 117039_L001.dwg
drawn by: WC checked by: EM
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drawing title:
LANDSCAPE NOTES & INDEX

drawing no.:
L0.01

TREE DISPOSITION

EX. TREE	DBH	HGT x WID	DISPOSITION
TREE #131 SEQUOIA SEMPERVIRENS	20"	50' x 20'	PROTECT
TREE #132 JUNIPERUS SPP.	20"	35' x 20'	REMOVE
TREE #133 FRAXINUS SPP.	38"	45' x 50'	REMOVE
TREE #134 SCHNIUS TEREBINTHEFOLIUS	32"	35' x 35'	REMOVE
TREE #135 ILEX SP.	9"	20' x 18'	REMOVE
TREE #136 METASEQUOIA GLYPTOSTROBOIDES	17"	45' x 20'	PROTECT
TREE #140 KOELREUTERIA BIPINNNATA	21"	28' x 32'	REMOVE
TREE #141 ULMUS PARVIFOLIA	21"	50' x 50'	REMOVE
TREE #142 ULMUS PARVIFOLIA	19"	40' x 40'	REMOVE
TREE #143 JACARANDA MIMOSIFOLIA	23"	45' x 30'	PROTECT
TREE #144 JACARANDA MIMOSIFOLIA	35"	50' x 40'	PROTECT
TREE #145 ARAUCARIA SPP.	19"	60' x 15'	REMOVE
TREE #146 ULMUS PARVIFOLIA	23"	55' x 55'	PROTECT
TREE #147 TUPIDANTHUS CALYPTRATUS	7"	40' x 15'	REMOVE
TREE #148 TUPIDANTHUS CALYPTRATUS	9"	42' x 18'	REMOVE
TREE #149 TUPIDANTHUS CALYPTRATUS	10"	30' x 12'	REMOVE
TREE #150 SCHINUS MOLLE	32"	30' x 40'	PROTECT
TREE #151 MAGNOLIA GRANDIFLORA	26"	35' x 40'	PROTECT
TREE #152 TRISTANIA CONFERTA	23"	45' x 45'	PROTECT

TREE PROTECTION NOTES:

1. PROTECTION BARRIER: A PROTECTION BARRIER SHALL BE INSTALLED AROUND THE TREE (OR TREES) TO BE PRESERVED. THE BARRIER SHALL BE CONSTRUCTED OF DURABLE FENCING MATERIAL, SUCH AS PLASTIC CONSTRUCTION FENCING, OR CHAIN-LINK FENCING. THE BARRIER SHALL BE PLACED AS FAR FROM THE BASE OF THE TREE(S) AS POSSIBLE, PREFERABLY AT THE DRIP LINE. THE FENCING SHALL BE MAINTAINED IN GOOD REPAIR THROUGHOUT THE CURATION OF THE PROJECT, AND SHALL NOT BE REMOVED, RELOCATED, OR ENCROACHED UPON WITHOUT PERMISSION OF THE ARBORIST INVOLVED.
2. STORAGE OF MATERIALS: THERE SHALL BE NO STORAGE OF MATERIALS OR SUPPLIES OF ANY KINDS WITHIN THE AREA OF THE PROTECTION BARRIERS. CONCRETE AND CEMENT MATERIALS, BLOCK, STONE, SAND AND SOIL SHALL NOT BE PLACED WITHIN THE DRIPLINE OF THE TREE.
3. NO EQUIPMENT IS TO BE OPERATED OR PARKED UNDER A TREE, NOR ARE ANY MATERIALS TO BE STORED WITHIN THE DRIPLINE OF A TREE OR LEANED AGAINST A TREE TRUNK. DO NOT PILE OR COMPACT SOIL WITHIN A DRIPLINE.
4. NO CHEMICAL HERBICIDES ARE TO BE USED WITHIN 100 FEET OF A TREE'S DRIPLINE.
5. DO NOT STRIP TOPSOIL AROUND TREES. ANY VEGETATION TO BE REMOVED SHOULD BE REMOVED BY CUTTING AT GROUND LEVEL RATHER THAN PULLING OUT BY EQUIPMENT.
6. FUEL STORAGE: FUEL STORAGE SHALL NOT BE PERMITTED WITHIN 150 FEET OF ANY TREE TO BE PRESERVED. REFUELING, SERVICING AND MAINTENANCE OF EQUIPMENT AND MACHINERY SHALL NOT BE PERMITTED WITHIN 150 FEET OF PROTECTED TREES.
7. DEBRIS AND WASTE MATERIALS: DEBRIS AND WASTE FROM CONSTRUCTION OR OTHER ACTIVITIES SHALL NOT BE PERMITTED WITHIN PROTECTED AREAS. WASH DOWN OF CONCRETE OR CEMENT HANDLING EQUIPMENT, IN PARTICULAR, SHALL NOT BE PERMITTED WITHIN 150 FEET OF PROTECTED TREES.
8. GRADE CHANGES: GRADE CHANGES CAN BE PARTICULARLY DAMAGING TO TREES. EVEN AS A LITTLE AS TWO INCHES OF FILL CAN CAUSE THE DEATH OF A TREE. LOWERING THE GRADE CAN DESTROY MAJOR PORTIONS OF THE ROOT SYSTEM. ANY GRADE CHANGES PROPOSED SHOULD BE APPROVED BY A REGISTERED CONSULTING ARBORIST BEFORE CONSTRUCTION BEGINS, AND PRECAUTIONS TAKEN TO MITIGATE POTENTIAL INJURIES.
9. DAMAGES: ANY DAMAGES OR INJURIES TO TREES SHOULD BE REPORTED TO THE PROJECT ARBORIST AS SOON AS POSSIBLE. SEVERED ROOTS SHALL BE PRUNED CLEANLY TO HEALTHY TISSUE USING PROPER PRUNING TOOLS. BROKEN BRANCHES OR LIMBS SHALL BE PRUNED ACCORDING TO INTERNATIONAL SOCIETY OF ARBORCULTURE PRUNING GUIDELINES AND ANSI A-300 PRUNING STANDARDS.
10. PREVENTATIVE MEASURES: BEFORE CONSTRUCTION BEGINS, FERTILIZATION OF AFFECTED TREES IS RECOMMENDED TO IMPROVE TREE VIGOR AND HEALTH. SOIL ANALYSES TESTING SHOULD BE COMPLETED TO ASSURE FERTILIZATION WITH THE APPROPRIATE FERTILIZER PRODUCTS. PRUNING OF THE TREE CANOPIES AND BRANCHES SHOULD BE DONE AT THE DIRECTION OF THE PROJECT ARBORIST TO REMOVE ANY DEAD OR BROKEN BRANCHES AND TO PROVIDE NECESSARY CLEARANCES FOR THE CONSTRUCTION EQUIPMENT.
11. HAND DIG VERTICAL TRENCH AT THE FINAL CUT LINE TO FINAL GRADE AND CLEANLY CUT ANY ROOTS ENCOUNTERS BEFORE SEALING WITH APPROVED TREE SEAL. THIS PROCEDURE IS TO PROTECT THE ROOT SYSTEM FROM UNNECESSARY DAMAGE BY EXCAVATION EQUIPMENT.
12. CONTRACTOR IS RESPONSIBLE FOR THE HEALTH OF EXISTING TREES DURING CONSTRUCTION. DURING CONSTRUCTION THE IMPACTED TREES SHOULD BE CLOSELY MONITORED TO FURTHER MITIGATE SHOCK SYMPTOMS IF THEY OCCUR. THE CONTRACTOR SHOULD BE PREPARED TO PROVIDE TEMPORARY WATER TO IRRIGATE AND WASH THE DUST FROM THE FOLIAGE IF NEEDED. CONTACT THE ARBORIST IF A DECLINE IN TREE CONDITION IS NOTED.

TREE DISPOSITION LEGEND:

TREE TO BE REMOVE:

XXX XXX — TREE SPECIES
— TREE NUMBER

TREE TO BE PROTECT IN PLACE: PER DETAIL 7/L1.51

XXX XXX — TREE SPECIES
— TREE NUMBER

SCALE: 1/16" = 1'-0"

0 8' 16' 32' 64'

IDENTIFICATION STAMP
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APP. 03-119686 INC:
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DATE: 10/14/2019

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LICENSED LANDSCAPE ARCHITECT
CALVIN R. ABE NO. 2023
Signature
10/31/20
Renewal Date
8/16/2019
Date
STATE OF CALIFORNIA

consultant

COMPTON COLLEGE
STUDENT SERVICES BLDG.
COMPTON COMMUNITY COLLEGE DISTRICT
1111 E. ARTESIA BLVD.
COMPTON, CA 90221

owner

tBP project number : 20987.00
file name: 117039_L011.dwg
drawn by: WC checked by: EM
date: 9.3.2019

Rev:	date:	description:

drawing title:
LANDSCAPE TREE DISPOSITION PLAN

drawing no.:
L0.11

PAVING SCHEDULE:

KEY	ITEM / DESCRIPTION	COLOR	FINISH	SUPPLIER	COMMENTS
P-01	CONCRETE PAVING	NATURAL GRAY	TOP CAST #5	–	SAW-CUT SCORE JOINTS SEE CIVIL DWG C1.3 FOR REINFORCEMENT AND CONC. SECTION.
P-02	INTEGRAL COLORED CONCRETE PAVING	KAILUA 677 DAVIS COLOR	TOP CAST #5		SAW-CUT SCORE JOINTS
P-03	STABILIZED DECOMPOSED GRANITE	CALIFORNIA GOLD		SOUTHWEST BOULDER & STONE	ORGANIC STABILIZER
P-04	UNSTABILIZED DECOMPOSED GRANITE	CALIFORNIA GOLD	–	SOUTHWEST BOULDER & STONE	–

SITE AMENITY & WALL SCHEDULE:

KEY	ITEM / DESCRIPTION	COLOR	FINISH	SUPPLIER	COMMENTS
A-01	TABLE AND CHAIRS CAROUSEL – CASUAL HOOP BACKED 4 SEAT			LANDSCAPE FORMS	ANCHORED. SURFACE MOUNTED. SEE DETAIL 4/L1.52
A-02	TABLE AND CHAIRS CAROUSEL – COUNTER BACKLESS			LANDSCAPE FORMS	ANCHORED. SURFACE MOUNTED. SEE DETAIL 4/L1.52
A-03	PRECAST CONCRETE PICNIC TABLE #QSTD90PT	NATURAL	SMOOTH TROWEL	AVAILABLE AT QCP 866-703-3434	SEE DETAIL 9/L1.52
A-04	PRECAST CONCRETE PICNIC TABLE ADA COMPLIANT #QSTD90PT-ADA	NATURAL	SMOOTH TROWEL	AVAILABLE AT QCP 866-703-3434	SEE DETAIL 9,12/L1.52
A-05	TABLE AND CHAIRS CAROUSEL – CASUAL HOOP BACKED 3 SEAT				ANCHORED. SURFACE MOUNTED. SEE DETAIL 4/L1.52
A-06	TABLE AND CHAIRS CAROUSEL – DINING, BACKED 3 SEAT, ADA COMPLIANT				ANCHORED. SURFACE MOUNTED. SEE DETAIL 4 & 6/L1.52
W-01	CAST IN PLACE CONCRETE SEAT WALL	NATURAL	TOP CAST #5		SEE DETAIL 10/L1.52
W-02	CAST IN PLACE CONCRETE SEAT WALL (7'-6"L x 4'-6"W)	NATURAL	TOP CAST #5		SEE DETAIL 10/L1.52
W-03	CAST IN PLACE CONCRETE SEAT WALL (4'-0"L x 2'-6"W)	NATURAL	TOP CAST #5		SEE DETAIL 10/L1.52

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LEGEND & NOTES

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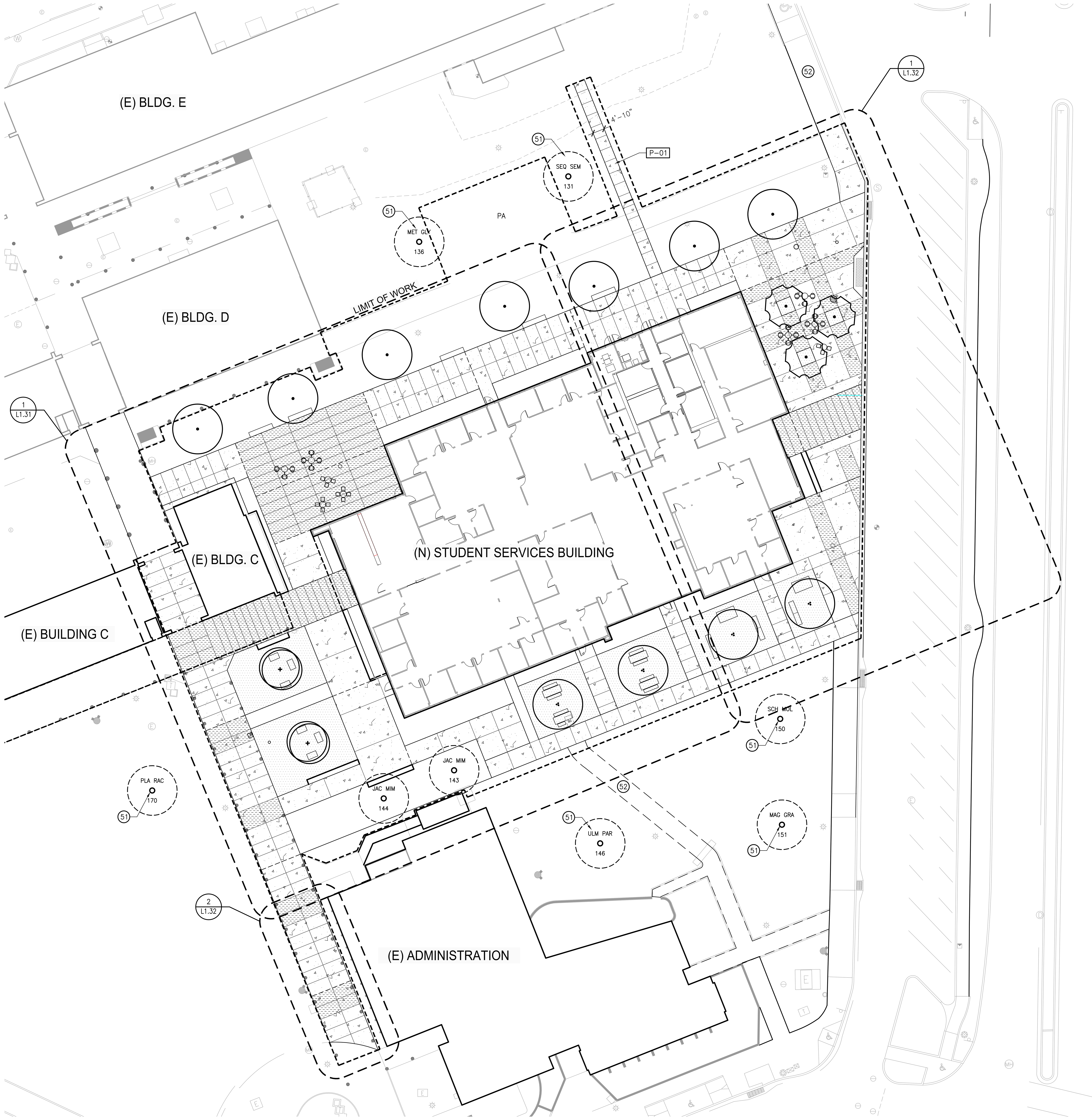
L1.00



CONSTRUCTION KEYNOTES:

1. COLD/EXPANSION JOINT. — — — — — —
2. SAWCUT JOINT. ————————

EXISTING REFERENCES:
51. TREE TO REMAIN.
52. CONCRETE WALK TO REMAIN.
53. NOT USED.
54. BLUE PHONE TO REMAIN.
55. PARKING PAY STATION TO REMAIN.
56. PAY PHONE TO REMAIN.
57. CURB RAMP.

CIVIL REFERENCES:
61. FIRE HYDRANT.

ARCHITECTURAL REFERENCES:
71. OVERHEAD STRUCTURE.

NOTE: SEE SHEET L1.00 FOR LEGENDS.

SCALE: 1/16" = 1'-0"

0 8' 16' 32' 64'

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LANDSCAPE
CONSTRUCTION PLAN

drawing no.:
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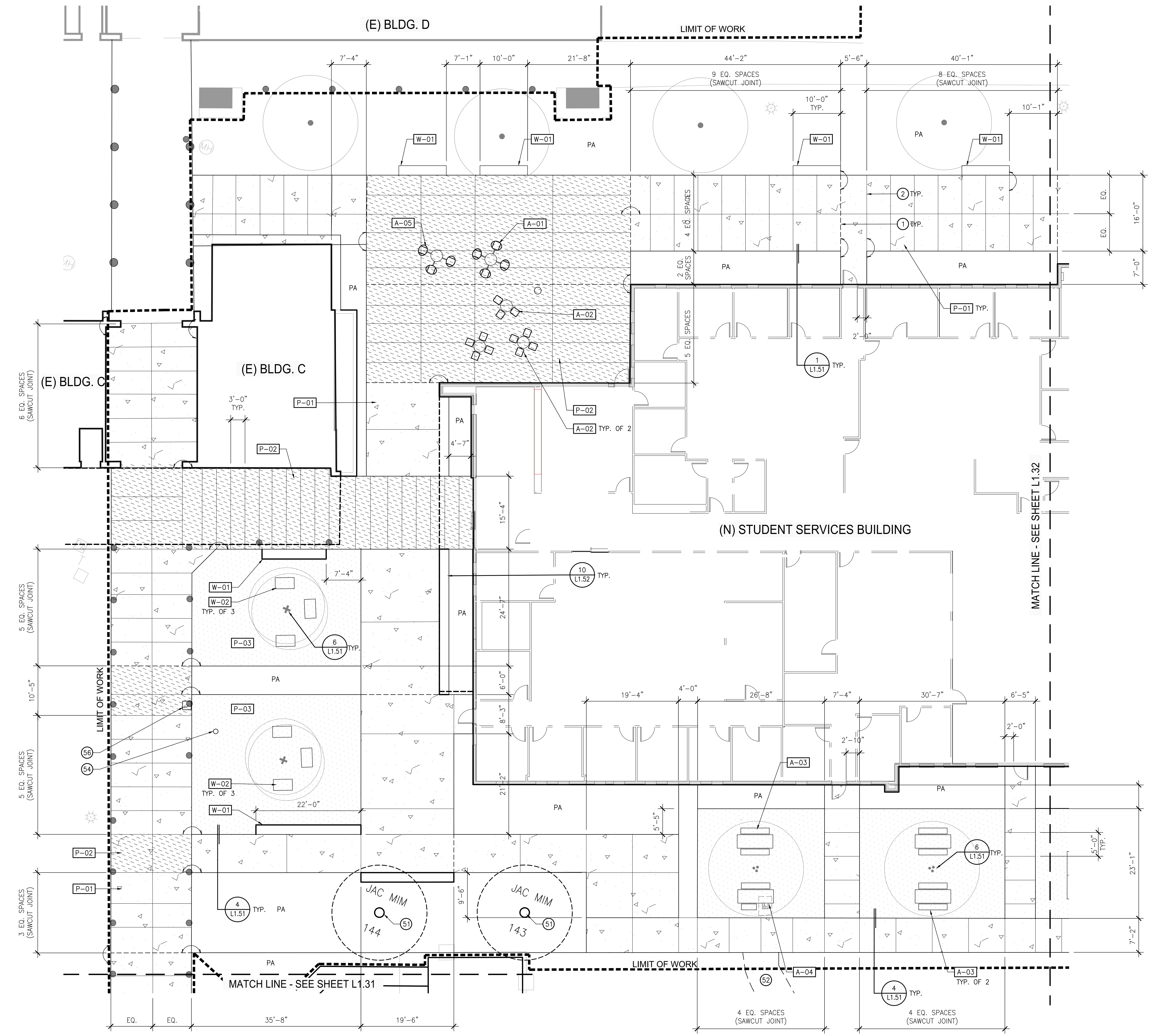

SCALE: 1/8" = 1'-0"

0 4' 8' 16' 32'

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file name: 117039_L131.dwg

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CONSTRUCTION ENLARGEMENT PLAN

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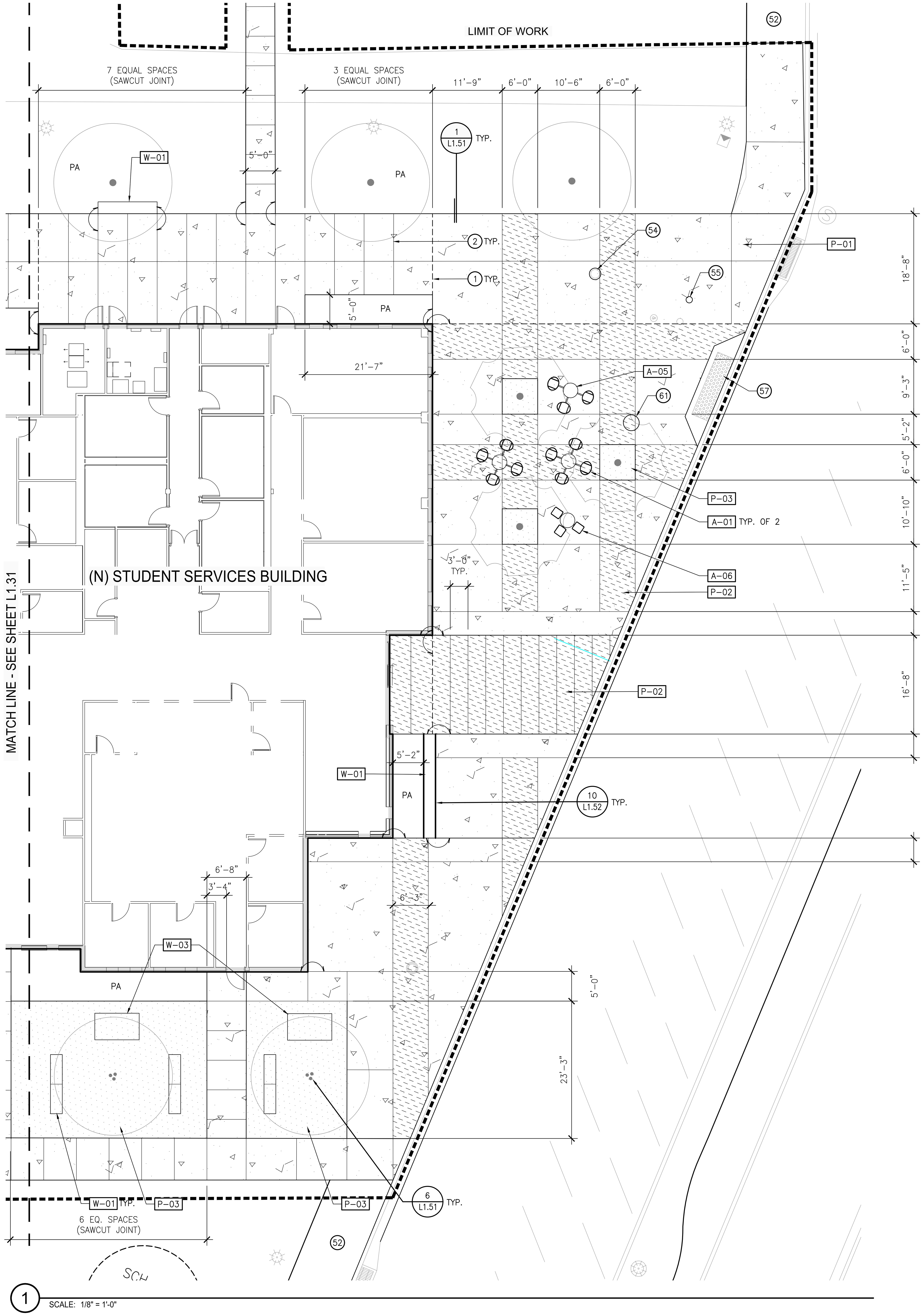

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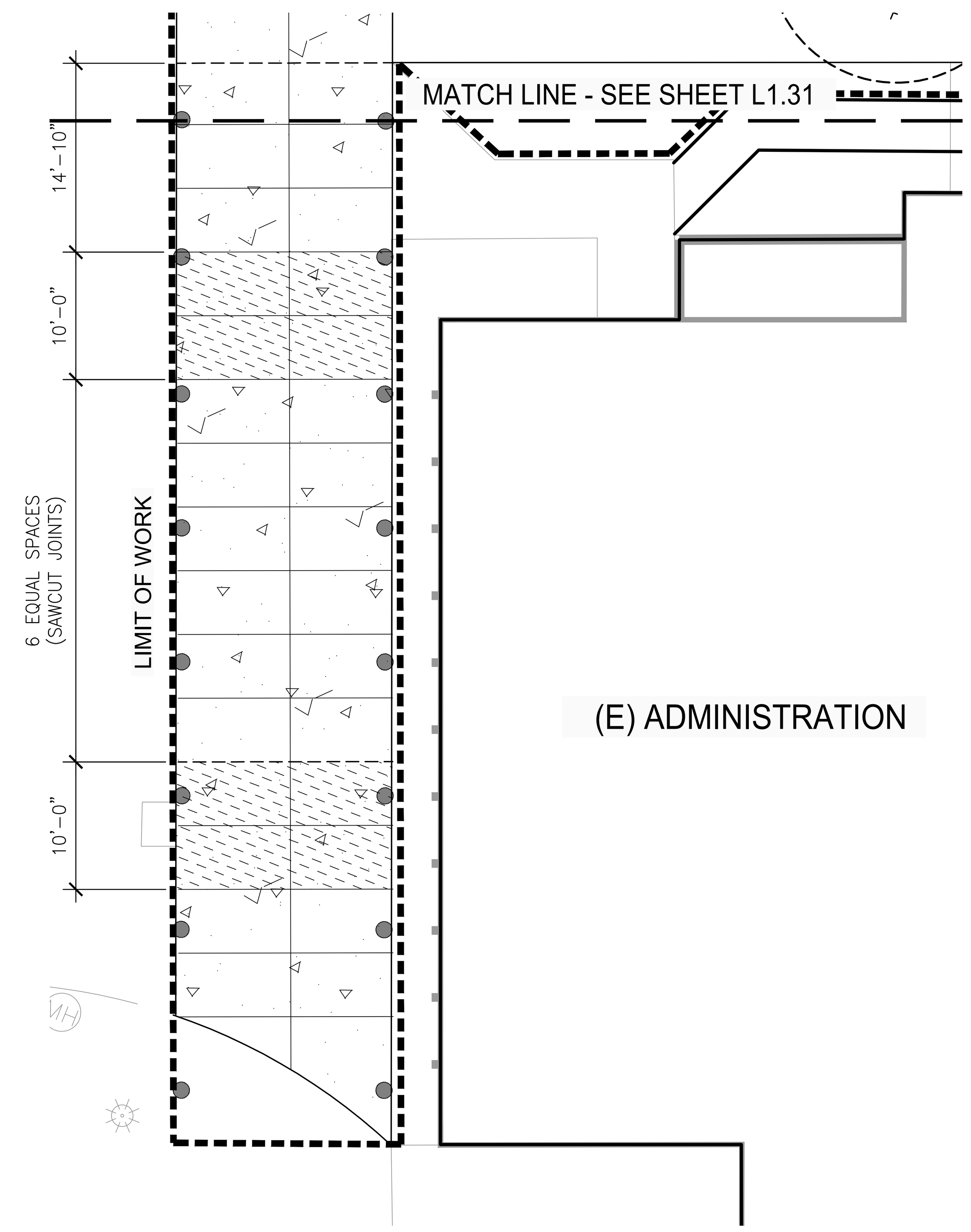

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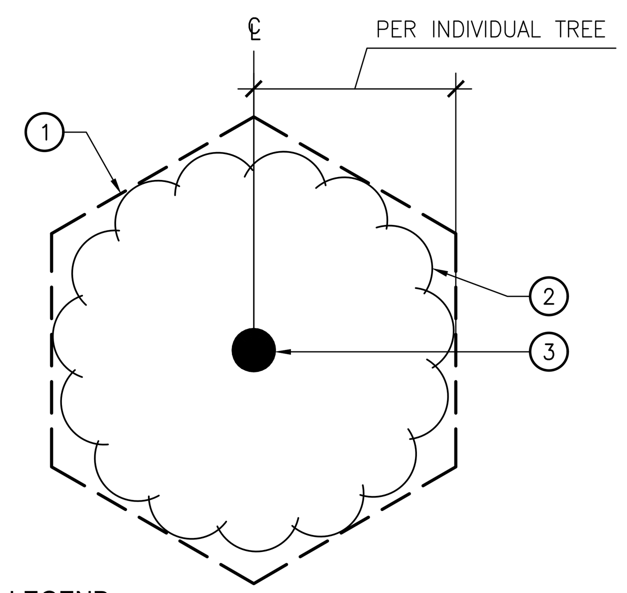
CONSTRUCTION ENLARGEMENT PLAN

drawing no.:
L1.32

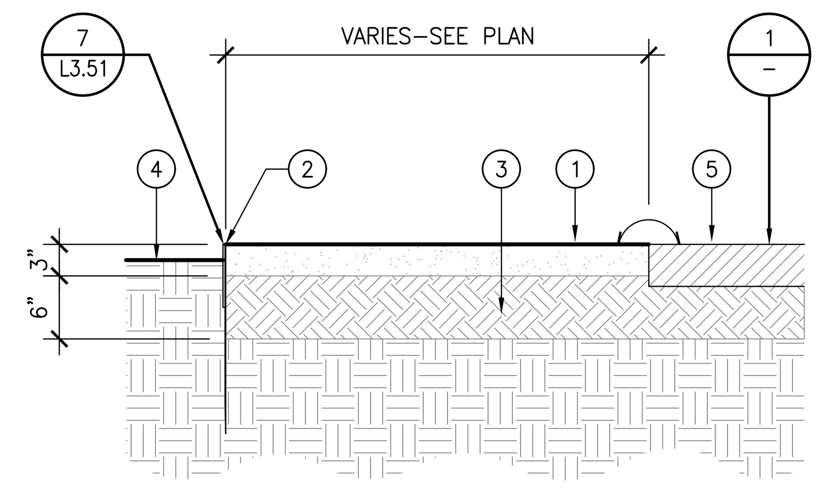
NOTE:
A. TYPICAL FENCE CONFIGURATION SHOWN ACTUAL FIELD CONDTIONS MAY VARY LAYOUT.
B. REFER TO TREE PROTECTION NOTES AND SPECIFICATIONS 32 0190 FOR MORE INFORMATION.



LEGEND

1. TEMPORARY FENCE.
2. EXTENT OF TREE CANOPY (DRIPLINE).
3. TREE TRUNK.

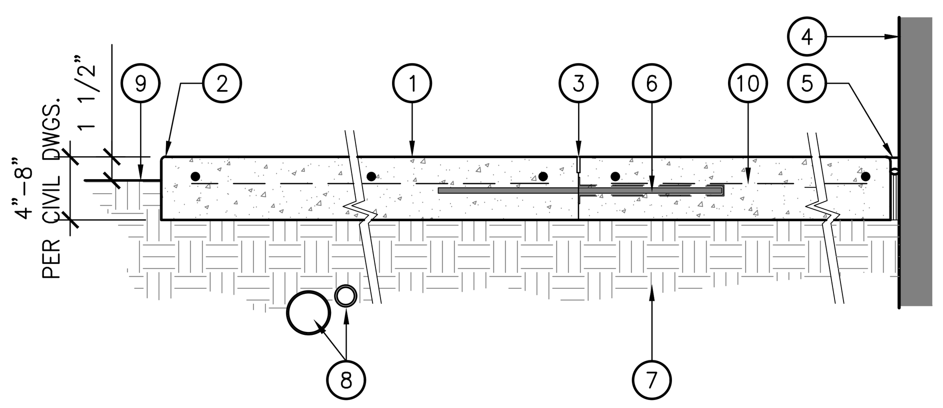
7 TREE PROTECTION ZONE TYP.
SCALE: NOT TO SCALE



LEGEND

1. STABILIZED D.G. SURFACE. 3" DEPTH
2. STEEL EDGING, PLACE ON INTERIOR SIDE OF PATH. INSTALL PER MANUF. RECOMMENDATIONS.
3. 90% COMPACTED SUBGRADE.
4. F.G.
5. ADJ. PAVED SURFACE OR CURB. WHERE D.G. IS ADJ. WALKABLE SURFACE, TOP OF D.G. IS TO BE LEVEL WITH PAVEMENT'S F.S.

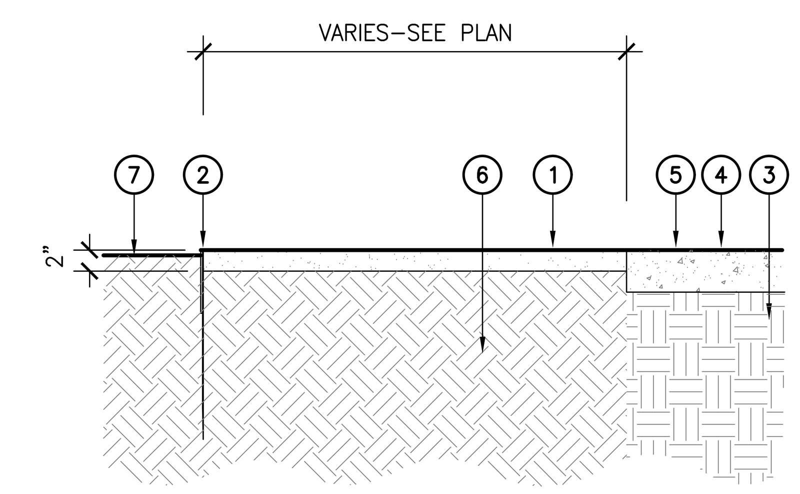
4 DECOMPOSED GRANITE SURFACE
SCALE: 1" = 1'–0"



LEGEND

1. CONC. PAVING – FINISH PER PLAN.
2. 1/4" RADIUS, ALL EXPOSED EDGES.
3. COLD JOINT.
4. BLDG. FACE OR VERTICAL SURFACE.
5. EXPANSION JOINT. SEE CONCRETE JOINTS DETAIL 2/L1.51
6. SPEED DOWEL. SEE CONCRETE JOINTS DETAIL 2/L1.51.
7. COMPACTED SUBGRADE PER GEOTECHNICAL REPORT. – MAINTAIN EVEN SURFACE, FREE OF DEBRIS. SLOPE AS REQUIRED.
8. CONDUITS, SLEEVES, ETC. SHALL BE BENEATH SAND BASE, DEPTH AND BACKFILL PER SPECIFICATIONS.
9. FINISH GRADE.
10. REBAR REINFORCEMENT PER CIVIL DRAWINGS C1.3.

1 CONCRETE PAVING
SCALE: 1–1/2" = 1'–0"

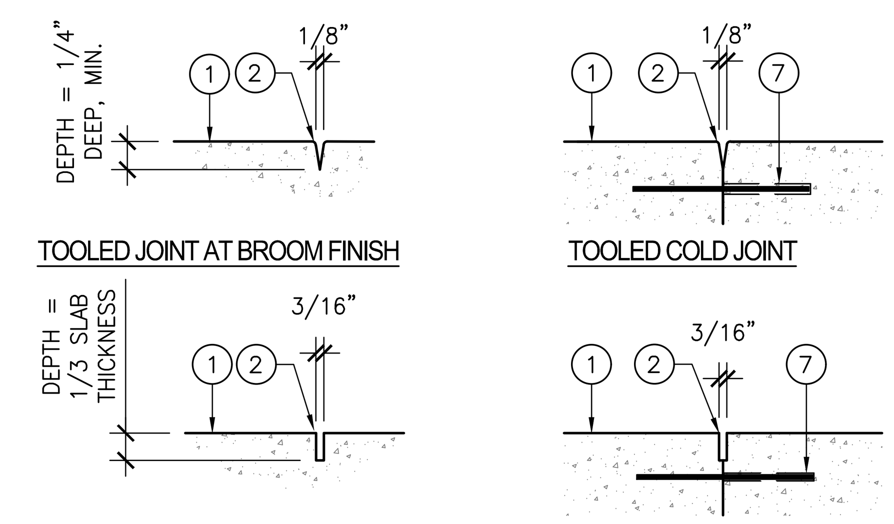


LEGEND

1. $\frac{1}{8}$"MIN. TO $\frac{1}{4}$"MAX. NO FINES D.G. SURFACE.
2. MTL. EDGING, PLACE ON INTERIOR SIDE OF PATH. INSTALL PER MANUF. RECOMMENDATIONS.
3. 90% COMPACTED SUBGRADE.
4. F.S.
5. ADJ. PAVED SURFACE OR CURB. WHERE DG IS ADJ. WALKABLE SURFACE. TOP OF DG IS TO BE LEVEL WITH PAVEMENT'S F.S.
6. PLANTING SOIL
7. F.G.

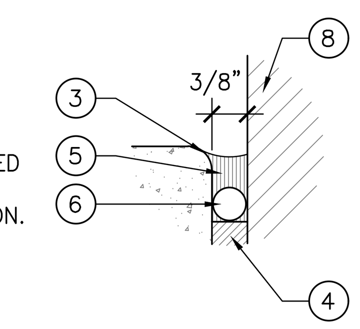
5 NON-STABILIZED DECOMPOSED GRANITE
SCALE: 1" = 1'–0"

.dwg



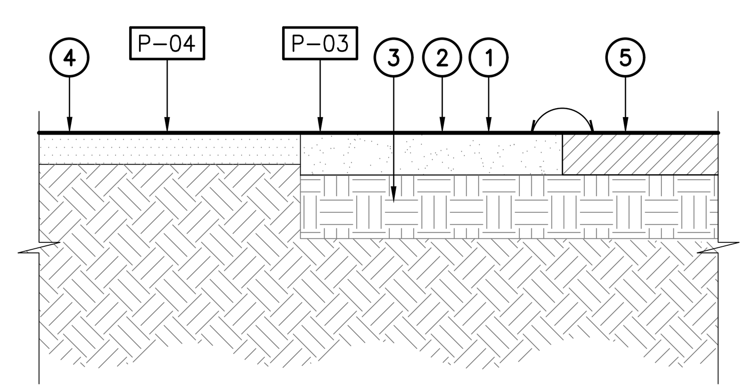
LEGEND

1. PAVING FINISH SURFACE.
2. SCORE JOINT.
3. 1/8" R. AT EDGES. TYP.
4. EXPANSION JOINT FILLER.
5. JOINT SEALANT. COLOR TO BE SELECTED BY LANDSCAPE ARCHITECT. SUBMIT COLOR SAMPLES PRIOR TO INSTALLATION. CONTRACTOR TO APPLY SILICA SAND (30 GRIT) TO EXPOSED SURFACE OF SEALANT AT EXPANSION JOINTS.
6. BACKER ROD.
7. 18" #4 REBAR WITH #4 SPEED DOWEL @ 36" O.C.
8. BLDG. FACE OR VERTICAL SURFACE.



EXPANSION JOINT AT VERT.

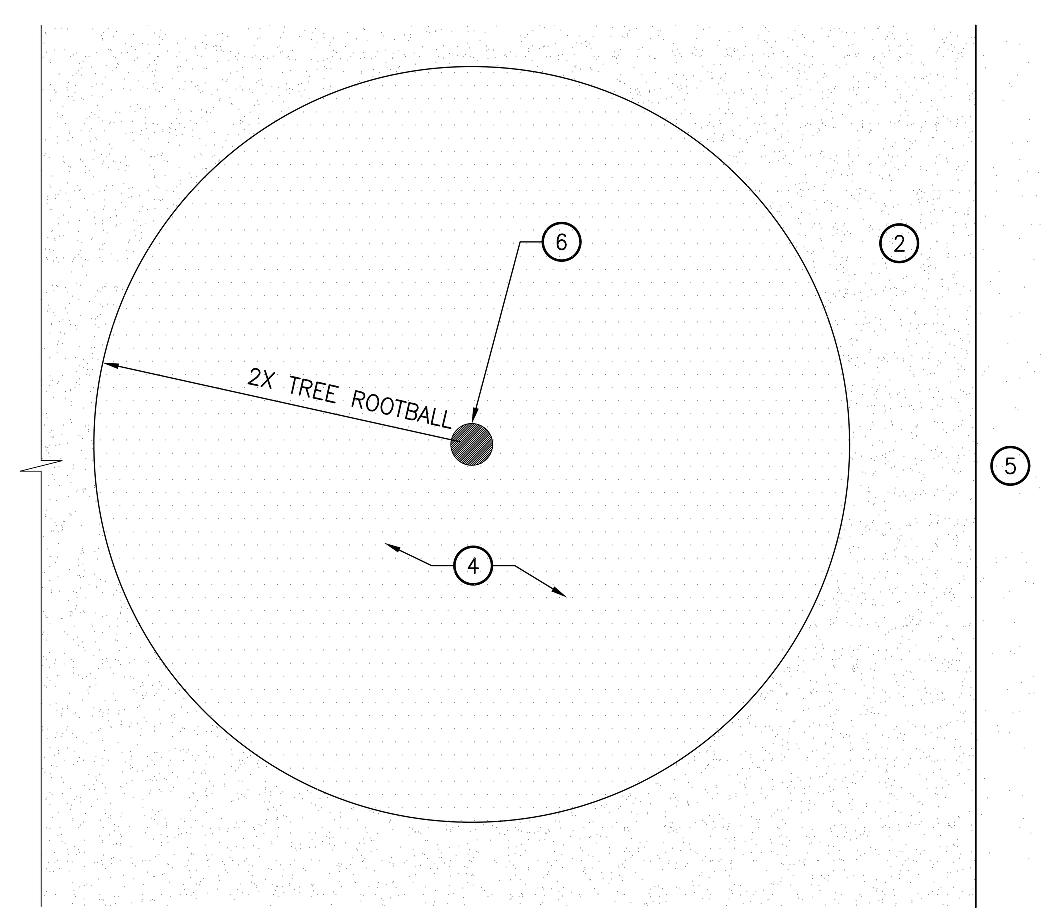
2 CONCRETE PAVING JOINTS
SCALE: N.T.S.



SECTION

LEGEND

1. F.S.
2. STABILIZED D.G. SURFACE 3" DEPTH.
3. COMPACTED SUBGRADE PER GEOTECHINICAL REPORT.
4. F.S., UNSTABILIZED D.G. 2" DEPTH.
5. ADJ. WALKWAY.
6. TREE, SEE PLANTING PLAN.



PLAN

6 STABILIZED AND UNSTABILIZED DG
SCALE: 1" = 1'–0"

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APP. 03-119686 INC:
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DATE: 10/14/2019

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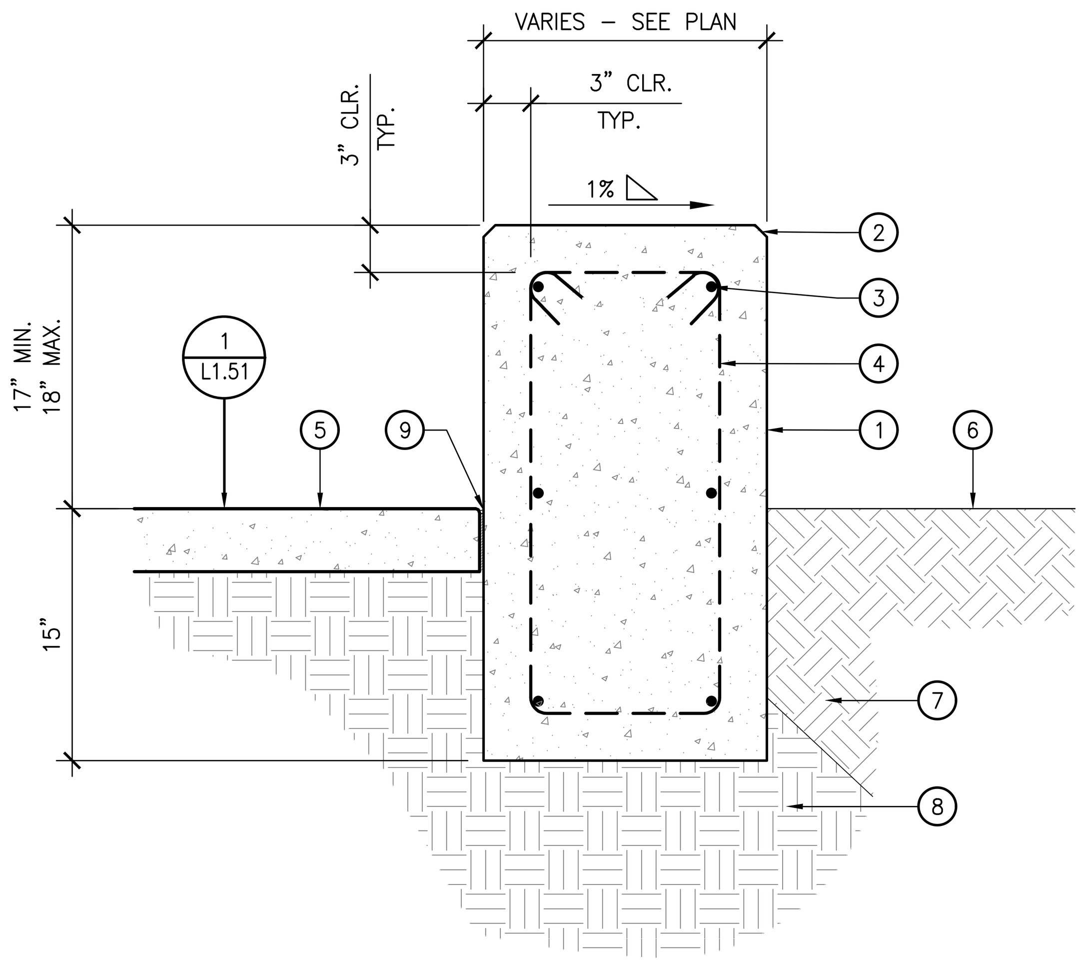


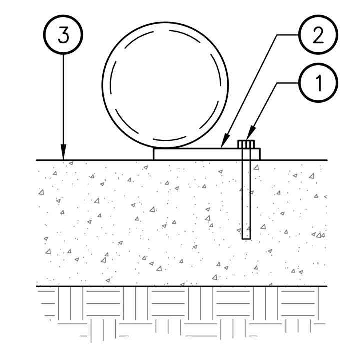
LEGEND

1. C.I.P. CONC. SEAT WALL. LOCATE WALL JOINTS PER PLAN/ELEVATION.
2. 1/2" CHAMFER EDGE (CONT.).
3. 6 – #4 CONT.
4. #4 @ 18" O.C.
5. FINISH SURFACE.
6. FINISH GRADE.
7. AMENDED SOIL PER SPECIFICATIONS.
8. COMPACTED SUBGRADE TO PER GEOTECHNICAL REPORT.
9. EXPANSION JOINT. SEE DETAIL 2/L1.51.

10 CONCRETE SEATWALL

SCALE: 1-1/2" = 1'-0"

.dwg



A. SURFACE MOUNT AT CONCRETE

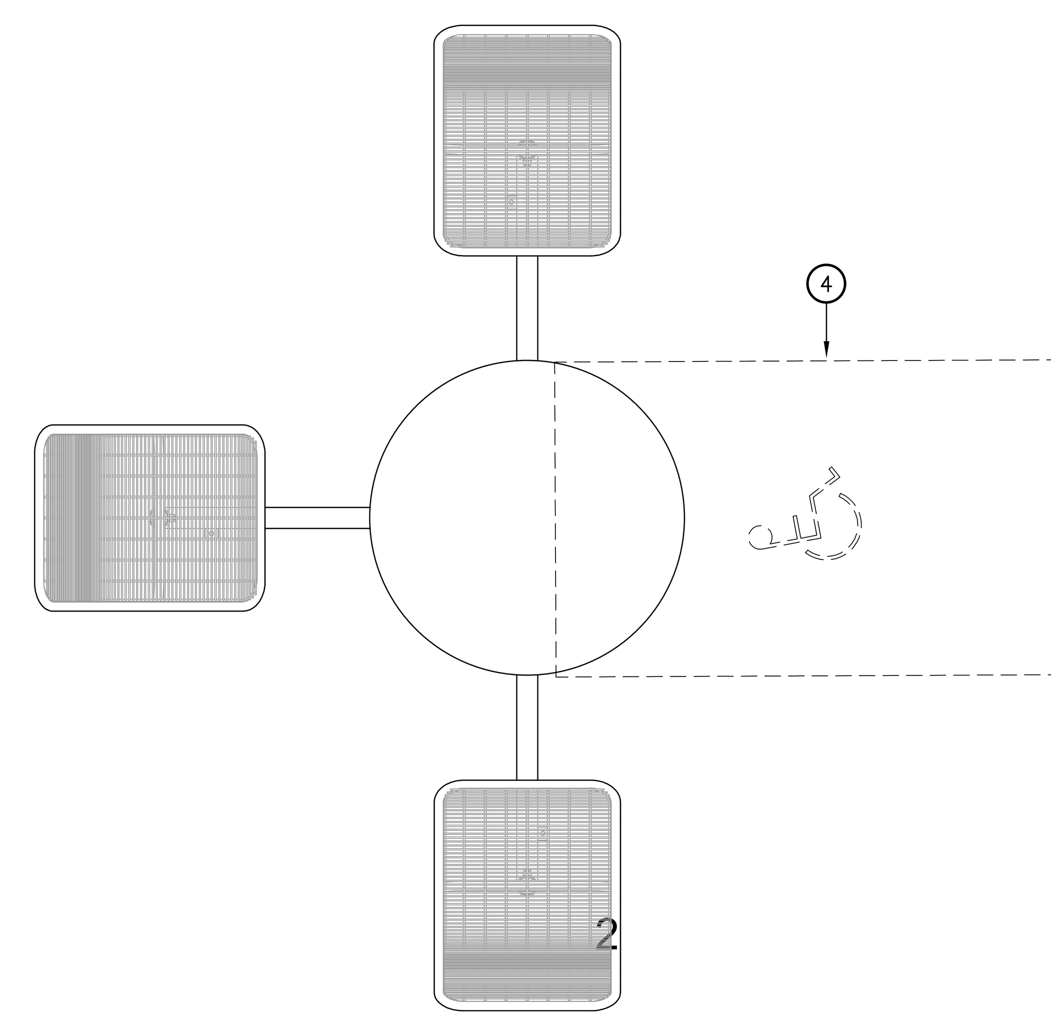
LEGEND

1. SECURE TABLE WITH NON CORROSIVE 3/8" ANCHOR BOLTS. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
2. MANUFACTURER'S SURFACE MOUNT TAB.
3. FINISH SURFACE.

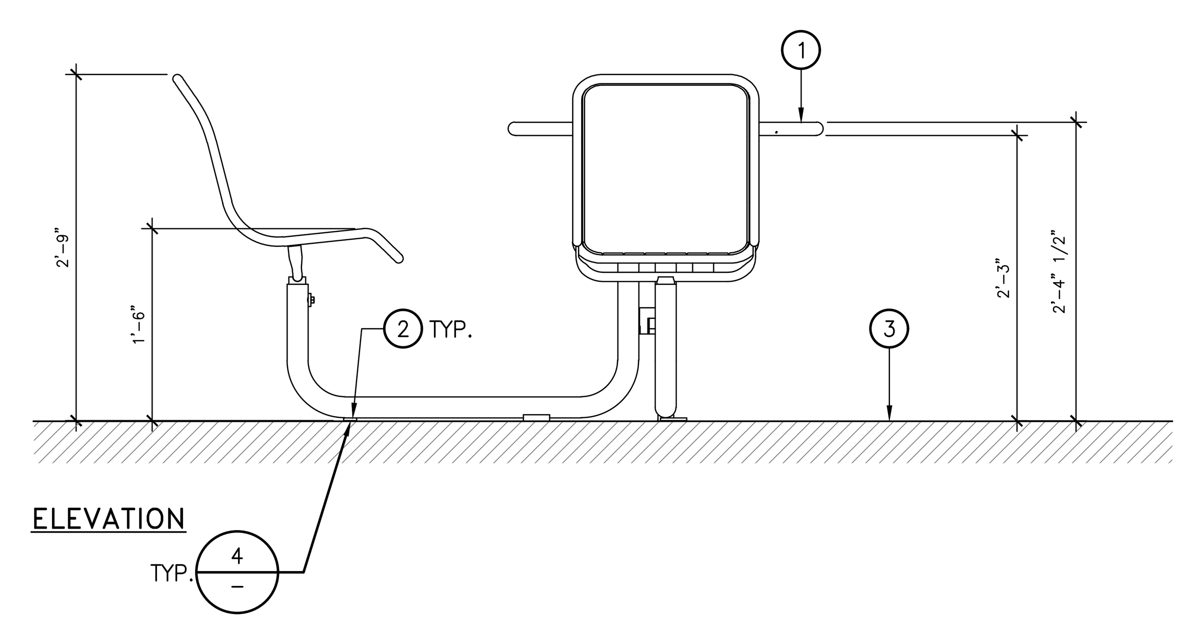
4 TABLE - SURFACE MOUNT

SCALE: 3" – 1'-0"

.dwg



PLAN



ELEVATION

TYP.

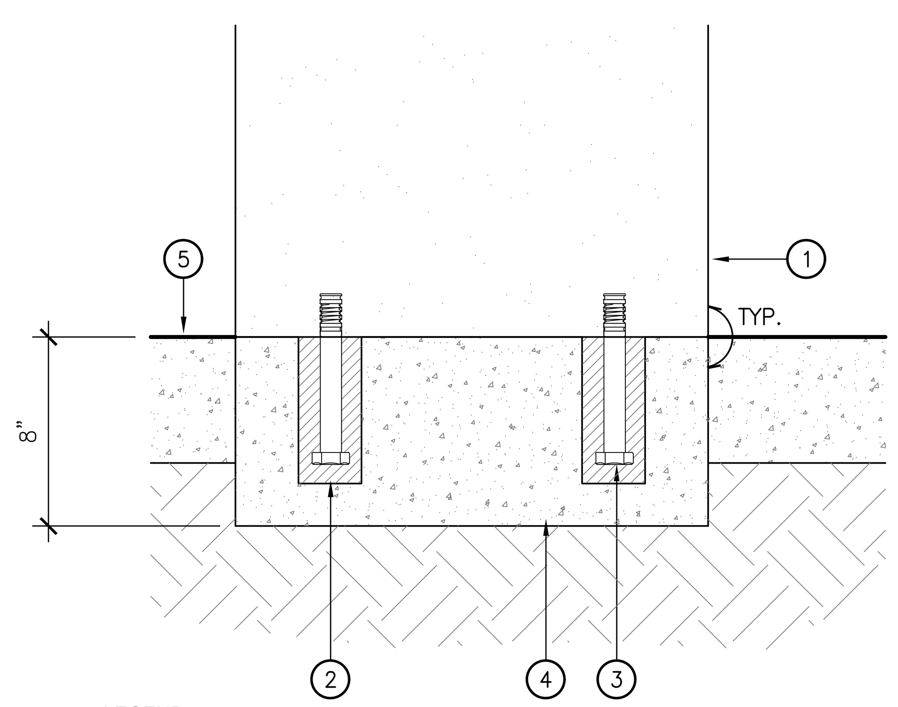
LEGEND

1. SECURE TABLE AT SURFACE MOUNT TAB. SEE DETAIL 4/L1.52.
2. MANUFACTURER'S SURFACE MOUNT TAB. SEE DETAIL 4/L1.52
3. FINISH SURFACE.
4. 30"x42" CLEAR ACCESSIBLE SPACE.

6 TABLE

SCALE: 1" = 1'-0"

.dwg

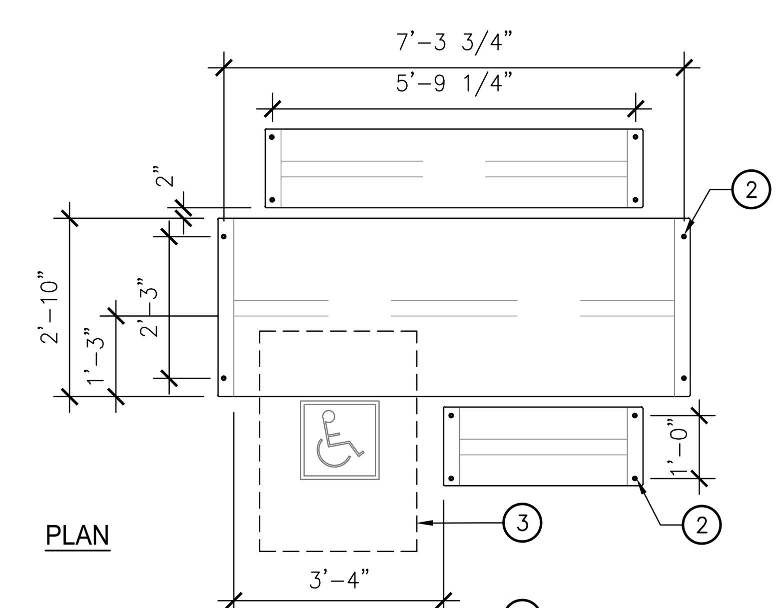


LEGEND

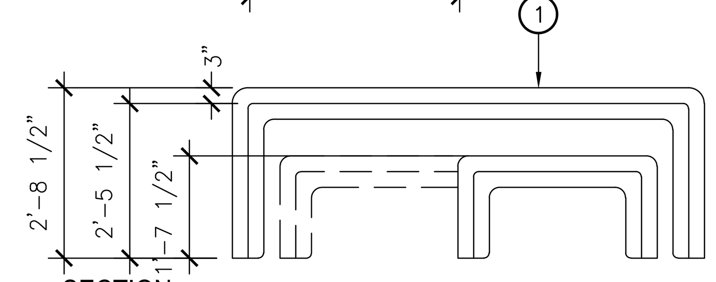
1. TABLE/BENCH LEG.
2. 2" DIA X 5" DEEP GROUT POCKET.
3. 1/2" DIA X 4 1/2" L. S.S. BOLTS. 4" MIN. EMBED WITH SIMPSON SET-XP EPOXY (ESR-2508) WITH 2" EDGE DISTANCE.
4. CONC. FOOTING.
5. CONCRETE PAVING FINISH SURFACE.

12 PICNIC TABLE FOOTING

SCALE: 3" = 1'-0"



PLAN



SECTION

LEGEND

1. PICNIC TABLE; A-04, SEE SITE AMENITY SCHEDULE L1.00.
2. DRILL HOLES FOR ANCHORING. SEE TABLE ANCHOR DETAIL 12/L1.52. INSTALL PER MANUFACTURER'S RECOMMENDATION.
3. ACCESSIBLE SPACE.

9 ACCESSIBLE PICNIC TABLE

SCALE: 1/2" = 1'-0"

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LANDSCAPE
CONSTRUCTION DETAILS

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WATER AUDIT AND MAINTENANCE SCHEDULE

THE CONTRACTOR WILL CONDUCT AN IRRIGATION AUDIT USING A CERTIFIED IRRIGATION AUDITOR, AFTER THE FINAL FIELD OBSERVATION HAS BEEN COMPLETED AND ALL IRRIGATION COMPONENTS ARE INSTALLED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS AND THE IRRIGATION SYSTEM IS ACCEPTED BY THE PROJECT ARCHITECT FOR MAINTENANCE.

THE IRRIGATION AUDIT WILL BE CONDUCTED IN ACCORDANCE WITH THE FOLLOWING SCHEDULE:

1. PLACE FLAGS AT EACH HEAD IN THE ZONE
2. MEASURE SPACING AND MARK MID POINTS BETWEEN HEADS.
3. PLACE WATER MEASURING RECEPTACLES.
4. TAKE READINGS OF WATER LEVEL IN RECEPTACLES AND RECORD RESULTS.
5. MEASURE HEAD PRESSURE IN EACH ZONE AND RECORD RESULTS.
6. AFTER COMPLETING ZONE ADVANCE TO NEXT ZONE AND REPEAT PROCEDURE.
7. SUBMIT THE RESULTS OF THE AUDIT TO THE PROJECT ARCHITECT.

THE IRRIGATION MAINTENANCE SCHEDULE TASKS LISTED BELOW ARE INTENDED AS MINIMUM STANDARDS AND MORE FREQUENT ATTENTION MAY BE REQUIRED DEPENDING ON THE PARTICULAR SITE CONDITIONS.

MAINTENANCE TASK

1. CONTROLLER CABINET - OPEN CABINET AND CLEAN OUT DEBRIS AND REPLACE BATTERY AS NECESSARY. CHECK WIRING AND REPAIR AS NEEDED AND CHECK CLOCK AND RESET IF NECESSARY.
FREQUENCY: QUARTERLY

2. IRRIGATION SCHEDULE - ADJUST SCHEDULE FOR SEASONAL VARIATIONS AND OTHER CONDITIONS WHICH MAY AFFECT THE AMOUNT OF WATER NEEDED TO MAINTAIN PLANT HEALTH ADJUST AS NECESSARY.
FREQUENCY: MONTHLY

3. POC - VISUALLY INSPECT COMPONENTS FOR LEAKS, PRESSURE SETTINGS, SETTLEMENT OR OTHER DAMAGE AFFECTING THE OPERATION OF A COMPONENT. REPAIR AS NEEDED.
FREQUENCY: QUARTERLY

4. REMOTE CONTROL VALVES, ISOLATION VALVES AND QUICK COUPLER VALVES - VISUALLY INSPECT FOR LEAKS, SETTLEMENT, WIRE CONNECTIONS AND PRESSURE SETTINGS. REPAIR OR ADJUST AS NEEDED.
FREQUENCY: QUARTERLY

5. MAINLINE & LATERALS - VISUALLY INSPECT FOR LEAKS OR SETTLEMENT OF TRENCH.
FREQUENCY: QUARTERLY

6. SPRINKLERS - VISUALLY CHECK FOR ANY BROKEN MISALIGNED OR CLOGGED HEADS. HEADS WITH INCORRECT ARC, INADEQUATE COVERAGE OR OVERSPRAY AND LOW HEAD DRAINAGE. REPAIR AS NEEDED.
FREQUENCY: WEEKLY

7. FILTERS AND STRAINERS - VISUALLY CHECK FOR LEAKS, BROKEN FITTING, CLEAN AND FLUSH SCREENS.

AUDIT SHALL BE IN ACCORDANCE WITH THE LATEST STATE OF CALIFORNIA LANDSCAPE WATER MANAGEMENT PROGRAM AS DESCRIBED IN THE LATEST LANDSCAPE IRRIGATION AUDITOR HANDBOOK. THE LANDSCAPE IRRIGATION AUDITS TO BE CONDUCTED BY A QUALIFIED INDIVIDUAL AND THE AUDIT SCHEDULE SHALL BE CONDUCTED AT LEAST ONCE EVERY FIVE YEARS IN ACCORDANCE WITH THE REQUIREMENTS OF TITLE 20, DIVISION 1 OF THE LOS ANGELES COUNTY CODE.

MAINTENANCE SCHEDULES:
MAINTENANCE SCHEDULES. A REGULAR MAINTENANCE SCHEDULE SATISFYING THE FOLLOWING CONDITIONS SHALL BE SUBMITTED AS PART OF THE LANDSCAPE DOCUMENTATION PACKAGE.

LANDSCAPE SHALL BE MAINTAINED TO ENSURE WATER EFFICIENCY. A REGULAR MAINTENANCE SCHEDULE SHALL INCLUDE, BUT NOT BE LIMITED TO, CHECKING, ADJUSTING, AND REPAIRING IRRIGATION EQUIPMENT, RESETTING THE AUTOMATIC CONTROLLER, AERATING AND DETHATCHING TURF AREAS, REPLENISHING MULCH, FERTILIZING, PRUNING, AND WEEDING IN ALL LANDSCAPE AREAS.

WHENEVER POSSIBLE, REPAIR OF IRRIGATION EQUIPMENT SHALL BE DONE WITH THE ORIGINALLY SPECIFIED MATERIALS OR THEIR EQUIVALENTS.

A LANDSCAPE IRRIGATION AUDIT SCHEDULE AS REQUIRED IN CHAPTER 20.09 OF TITLE 20 MAY BE RECOMMENDED, THE MAXIMUM PERIOD BETWEEN AUDITS SHALL BE FIVE YEARS.

IRRIGATION AUDIT SCHEDULES:
LANDSCAPE IRRIGATION AUDIT SCHEDULES. A SCHEDULE OF LANDSCAPE IRRIGATION AUDITS OF AT LEAST EVERY FIVE YEARS MUST BE ESTABLISHED, FOR ALL BUT SINGLE-FAMILY RESIDENCES, AND OTHER PROJECTS WITH LANDSCAPE AREA LESS THAN 1 ACRE (0.405 HA). AS REQUIRED IN CHAPTER 20.09 OF TITLE 20 (UTILITY CODES). AN AUDIT SATISFYING THE FOLLOWING CONDITIONS SHALL BE SUBMITTED TO THE COUNTY AS PART OF THE LANDSCAPE DOCUMENTATION PACKAGE.

AT A MINIMUM, AUDITS SHALL BE IN ACCORDANCE WITH THE LATEST STATE OF CALIFORNIA LANDSCAPE WATER MANAGEMENT PROGRAM AS DESCRIBED IN THE LANDSCAPE IRRIGATION AUDITOR HANDBOOK, PREPARED FOR THE CALIFORNIA DEPARTMENT OF WATER RESOURCES, WATER CONSERVATION OFFICE, THE ENTIRE DOCUMENT, WHICH IS HEREBY INCORPORATED BY REFERENCE.

THE SCHEDULE SHALL PROVIDE FOR LANDSCAPE IRRIGATION AUDITS TO BE CONDUCTED BY A QUALIFIED INDIVIDUAL AS DETERMINED BY THE DIRECTOR AT LEAST ONCE EVERY FIVE YEARS IN ACCORDANCE WITH THE REQUIREMENTS OF TITLE 20, DIVISION 1 OF THE LOS ANGELES COUNTY CODE.

IRRIGATION NOTES

1. ALL LOCAL MUNICIPAL AND STATE LAWS, RULES AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR.
2. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THESE PLANS ARE APPROXIMATE ONLY. ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE.
3. THE CONTRACTOR SHALL OBTAIN THE PERTINENT ENGINEERING OR ARCHITECTURAL PLANS BEFORE BEGINNING WORK.
4. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM THE WORK INDICATED HEREIN BEFORE BEGINNING WORK.
5. THIS DESIGN IS DIAGRAMMATIC. ALL EQUIPMENT SHOWN IN PAVED AREAS IS FOR DESIGN CLARITY ONLY AND IS TO BE INSTALLED WITHIN PLANTING AREAS.
6. THE CONTRACTOR SHALL NOT WILLFULLY INSTALL ANY EQUIPMENT AS SHOWN ON THE PLANS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN CONDITIONS EXIST THAT WERE NOT EVIDENT AT THE TIME THESE PLANS WERE PREPARED. ANY SUCH CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE PRIOR TO ANY WORK OR THE IRRIGATION CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ANY FIELD CHANGES DEEMED NECESSARY BY THE OWNER.
7. INSTALL ALL EQUIPMENT AS SHOWN IN THE DETAILS AND SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH LOCAL CITY, COUNTY AND STATE REQUIREMENTS FOR BOTH EQUIPMENT AND INSTALLATION.
8. ACTUAL LOCATION FOR THE INSTALLATION OF THE BACKFLOW PREVENTER AND THE AUTOMATIC CONTROLLER IS TO BE DETERMINED IN THE FIELD BY THE OWNER'S AUTHORIZED REPRESENTATIVE.
9. CONTRACTOR IS TO PROVIDE AN ADDITIONAL PILOT WIRE FROM CONTROLLER ALONG ENTIRETY OF MAIN LINE TO THE LAST RCV ON EACH AND EVERY LEG OF MAIN LINE. LABEL SPARE WIRES AT BOTH ENDS.
10. ALL PIPE UNDER PAVED AREAS TO BE INSTALLED IN SLEEVING TWICE THE DIAMETER OF THE PIPE CARRIED. SEE LEGEND FOR TYPE. ALL WIRE UNDER PAVED AREAS TO BE INSTALLED IN A SCH. 40 SLEEVE THE SIZE REQUIRED TO EASILY PULL WIRE THROUGH. ALL SLEEVES TO BE INSTALLED WITH A MINIMUM DEPTH AS SHOWN ON THE SLEEVING DETAILS. SLEEVES TO EXTEND AT LEAST 12" PAST THE EDGE OF THE PAVING.
11. ALL QUICK COUPLER AND REMOTE CONTROL VALVES TO BE INSTALLED IN SHRUB OR GROUND COVER AREAS WHERE POSSIBLE. ALL QUICK COUPLER AND REMOTE CONTROL VALVES TO BE INSTALLED AS SHOWN ON THE INSTALLATION DETAILS. INSTALL ALL QUICK COUPLER AND REMOTE CONTROL VALVES WITHIN 18" OF HARDSCAPE.
12. ALL HEADS ARE TO BE INSTALLED WITH THE NOZZLE, SCREEN AND ARCS SHOWN ON THE PLANS. ALL HEADS ARE TO BE ADJUSTED TO PREVENT OVERSPRAY ONTO BUILDINGS, WALLS, FENCES AND HARDSCAPE. THIS INCLUDES, BUT NOT LIMITED TO, ADJUSTMENT OF DIFFUSER PIN OR ADJUSTMENT SCREW, REPLACEMENT OF PRESSURE COMPENSATING SCREENS, REPLACEMENT OF NOZZLES WITH MORE APPROPRIATE RADIUS UNITS AND THE REPLACEMENT OF NOZZLES WITH ADJUSTABLE ARC UNITS.
13. CONTRACTOR SHALL INSTALL ADDITIONAL CHECK VALVES TO HEADS AND LATERALS AS REQUIRED TO PREVENT LOW HEAD DRAINAGE.
14. THE CONTRACTOR SHALL USE PROPER GROUNDING TECHNIQUES FOR GROUNDING THE CONTROLLER AND RELATED EQUIPMENT PER MANUFACTURERS SPECIFICATIONS. SWEENEY AND ASSOCIATES RECOMMENDS MEASURING FOR PROPER GROUND AT LEAST ONCE ANNUALLY, AND NECESSARY ADJUSTMENTS MADE TO COMPLY WITH MANUFACTURER SPECIFICATIONS.
15. THE CONTRACTOR IS REQUIRED TO CONTACT DIGALERT OR 811 A MINIMUM OF TWO (2) DAYS PRIOR TO THE START OF ANY EXCAVATIONS ON THE PROJECT AND SPECIFICALLY PRIOR TO THE INSTALLATION OF ANY GROUNDING RODS. DIAL 811 OR LOG ONTO WWW.DIGALERT.ORG TO START A PROJECT TICKET. DIGALERT AND 811 IS A FREE SERVICE PROVIDED TO THE PROJECT. FAILURE TO CONTACT AND HAVE THE EXISTING UTILITIES IDENTIFIED, LOCATED AND MARKED SHALL MAKE THE CONTRACTOR SOLELY RESPONSIBLE FOR ANY AND ALL DAMAGES.

IRRIGATION MATERIAL LEGEND

SYMBOL (Q T H F)	MANUFACTURER	MODEL NO. / DESCRIPTION	FLOW RATE (GPM)	PSI	RADIUS	P.R. (TRI.)	DETAIL
	RAIN BIRD	RD-12-S-P45-F 12" POP-UP SHRUB HEAD WITH R-VAN14 (Q/T/H) / R-VAN14-360 NOZZLES	.32, .42, .63, 1.27	45	14 FT	0.70 IN./HR.	A/L2.51
	RAIN BIRD	RD-12-S-P45-F 12" POP-UP SHRUB HEAD WITH R-VAN18 (Q/T/H) / R-VAN18-360 NOZZLES	.50, .62, 1.17, 1.85	45	18 FT	0.70 IN./HR.	A/L2.51
	RAIN BIRD	RD-12-S-P45-F 12" POP-UP SHRUB HEAD WITH R-VAN24 (Q/T/H) / R-VAN24-360 NOZZLES	.84, 1.16, 1.68, 3.48	45	24 FT	0.70 IN./HR.	A/L2.51
	RAIN BIRD	RD-06-S-P45-F 6" POP-UP TURF HEAD WITH R-VAN14 (Q/T/H) / R-VAN14-360 NOZZLES	.32, .42, .63, 1.27	45	14 FT	0.70 IN./HR.	A/L2.51
	RAIN BIRD	RD-06-S-P45-F 6" POP-UP TURF HEAD WITH R-VAN18 (Q/T/H) / R-VAN18-360 NOZZLES	.50, .62, 1.17, 1.85	45	18 FT	0.70 IN./HR.	A/L2.51
	RAIN BIRD	RD-06-S-P45-F 6" POP-UP TURF HEAD WITH R-VAN24 (Q/T/H) / R-VAN24-360 NOZZLES	.84, 1.16, 1.68, 3.48	45	24 FT	0.70 IN./HR.	A/L2.51
	RAIN BIRD	RD-06-S 6" POP-UP BUBBLER HEAD WITH A HUNTER MSBN-50Q STREAM BUBBLER NOZZLE EACH SYMBOL REPRESENTS TWO (2) BUBBLER TO PROVIDE A TOTAL OF TWO (2) BUBBLERS PER TREE OR PALM. PLACE THE BUBBLER HEADS SIX (6) INCHES FROM THE ROOT BALL OF THE TREE OR PALM AND ON OPPOSITE SIDES OF TREE OR PALM. ADJUST BUBBLER STREAMS TO WET THE ROOT BALL AND ADJACENT AMENDED SOIL WITHOUT HITTING THE TRUNK OF THE TREE OR PALM.	.50 (1.00 TOTAL)	30	1 FT	1.00 IN./HR.	A,B/L2.51
	RAIN BIRD	XFS-06-12 SUBSURFACE DRIP TUBING (COPPER EXTERIOR COLOR) WITH 0.60 GPH, PRESSURE COMPENSATING EMITTERS INTERNALLY INSTALLED IN THE DRIP TUBING AT 12" O.C. SPACING. DRIP TUBING SHALL BE EQUIPPED WITH COPPER CHIP TECHNOLOGY TO PREVENT ROOT INTRUSION INTO THE DRIP EMITTER. DRIP TUBING SHALL BE INSTALLED 4" BELOW FINISHED SOIL GRADE (NOT COUNTING MULCH) IN SHRUB AREAS AND 6" BELOW DG AREAS, AND IN PARALLEL ROWS A MAXIMUM OF 16" ON CENTER. THE PERIMETER ROW OF DRIP TUBING SHALL BE INSTALLED A MAXIMUM OF 4" FROM THE EDGE OF ANY HARDSCAPE OR TURF EDGE. ALL SUBSEQUENT INTERIOR ROWS SHALL BE ADJUSTED TO PROVIDE AN EVEN SPACING ACROSS THE PLANTER WITHOUT EXCEEDING 16" MAXIMUM SPACING. INSTALL 9" PVC COATED GALVANIZED TUBING STAKES A MAXIMUM OF FIVE (5) FEET ON CENTER ALONG THE LENGTH OF THE TUBING. TUBING STAKES SHALL BE MODEL #GDTS140900 AS MANUFACTURED BY GPH IRRIGATION PRODUCTS (866) 582-9684. THE HATCH PATTERN SYMBOLS ON THE PLANS REPRESENT THE APPROXIMATE DIRECTION AND SPACING OF THE DRIP TUBING ROWS, SEE ACTUAL SPACING REQUIREMENTS ABOVE AND IN DETAILS.					C,D,E/L2.51
NO SYMBOL	RAIN BIRD	CONNECTION BETWEEN XFS DRIP TUBING AND PVC SUPPLY AND DISCHARGE HEADERS SHALL BE MADE USING XF DRIP LINE BARBED FITTINGS, SCH. 40 PVC THREADED FITTINGS, SCH. 80 NIPPLES AND FLEXIBLE NIPPLES. WHEN THE CONNECTION IS AT THE END RUN OF THE TUBING USE A 1/2" SCH. 40 PVC THREADED 90° ELBOW, A 1/2" X LENGTH AS REQUIRED SCH. 80 PVC THREADED NIPPLE, A 1/2" X 6" MIPT X FIPT FLEXIBLE NIPPLE, AND A XFF-MA-050 17mm BARB X 1/2" MIPT ADAPTER FITTING. WHEN THE CONNECTION IS IN THE MIDDLE OF THE TUBING RUN USE A 1/2" SCH. 40 PVC THREADED TEE FITTING, A 1/2" X LENGTH AS REQUIRED SCH. 80 PVC THREADED NIPPLE, A 1/2" X 6" MIPT X FIPT FLEXIBLE NIPPLE, AND TWO (2) XFF-MA-050 17mm BARB X 1/2" MIPT ADAPTERS. ALL END RUNS OF TUBING SHALL BE CONNECTED WITH A PVC DISCHARGE HEADER. FLEXIBLE NIPPLES SHALL BE MODEL #GFN050600 AS MANUFACTURED BY GPH IRRIGATION PRODUCTS (866) 582-9684.					C,D,E/L2.51
NO SYMBOL	RAIN BIRD	XF SERIES 17mm BARBED FITTINGS FOR ALL CONNECTIONS BETWEEN DRIP TUBING (TUBING-TO-TUBING ONLY). ALL BARBED DRIP TUBING FITTINGS SHALL BE INSTALLED USING A FITINS-TOOL FOR PROPER INSERTION OF THE FITTING INTO THE TUBING. NO HEATING OF TUBING SHALL BE ALLOWED.					C,D,E/L2.51
	AS APPROVED	PVC SUPPLY AND DISCHARGE HEADERS SHALL BE PVC LATERAL LINE PIPE (AS SHOWN BELOW), 1" MINIMUM SIZE WITH SCH. 40 PVC FITTINGS.					C,D,E/L2.51
NO SYMBOL	RAIN BIRD	WHERE VINES ARE PLANTED ON WALLS, FENCES OR COLUMNS WITHIN THE DRIP TUBING ZONES, ADDITIONAL DRIP EMITTERS SHALL BE REQUIRED FOR THESE VINE PLANTINGS. THE CONTRACTOR SHALL INSTALL TWO (2) XB-10PC 1 GPH DRIP EMITTERS PER VINE PLANTING. THESE ADDITIONAL EMITTERS SHALL BE PUNCHED DIRECTLY INTO THE DRIP TUBING. EMITTERS SHALL BE INSTALLED USING A XM-TOOL EMITTER INSTALLATION TOOL. EACH DRIP EMITTER SHALL BE INSTALLED WITH AN 18" LENGTH OF XQ-1/4" DISTRIBUTION TUBING, A TS-025 TUBING STAKE AND A DBC-025 DIFFUSER BUG CAP. LOCATE EMITTER OUTLETS DIRECTLY OVER THE ROOT BALL OF THE VINE PLANTING.					F/L2.51
F	GPH IRRIGATION/ RAIN BIRD	GDFN DRIP FLUSH / INDICATOR NOZZLE, ORANGE IN COLOR, INSTALLED ONTO A RAIN BIRD 1812 12" POP-UP SPRINKLER BODY (NO PRS OR CHECK VALVE). THE FLUSH NOZZLE SHALL BE CLOSED FOR NORMAL OPERATION OF THE DRIP SYSTEM.					C,G/L2.51
A	RAIN BIRD	ARV050 AIR/VACUUM RELIEF VALVE INSTALLED WITH A XFD-TFA-075 BARB X BARB X 3/4" FIPT TEE FITTING AND A AND A 3/4" X 1/2" SCH. 40 PVC THREADED REDUCER BUSHING. INSTALL AIR RELIEF ASSEMBLY AT THE HIGH POINT OF EACH PLANTER. SEE PLANS FOR APPROXIMATE LOCATION AND QUANTITY OF ARV'S PER DRIP ZONE. USING AN AIR RELIEF LATERAL CONSTRUCTED OF XFD "BLANK" XF TUBING, CONNECT AIR RELIEF VALVE TO ALL DRIP LINE LATERALS WITHIN THE ELEVATED AREA. MULTIPLE ARV'S MAY BE REQUIRED PER DRIP TUBING ZONE, SEE PLANS. INSTALL INSIDE A 7" ROUND VALVE BOX.					C,H/L2.51
	LASCO	V27101N-SC 2 1/2" SLO-CLOSE SCH. 80 PVC, TRUE-UNION BALL VALVE WITH SOLVENT WELD SOCKET CONNECTIONS, LINE SIZE PER MAINLINE. INSTALL INSIDE A 10" ROUND VALVE BOX.					I/L2.51
	RAIN BIRD	44LRC 1" QUICK COUPLER VALVE WITH LOCKING VINYL COVER AND A LASCO G13S-218 SWING JOINT. INSTALL INSIDE A 10" ROUND VALVE BOX.					J/L2.51
	RAIN BIRD	XXX-PESB-PRS-D PRESSURE REGULATING, PLASTIC REMOTE CONTROL VALVE (RCV), SIZE AS SHOWN (1" AND 1 1/2" SIZES), SET PRS-D PRESSURE REGULATOR TO PROVIDE THE OPERATING PRESSURE OF THE SPRINKLER / BUBBLER HEAD AT THE HIGHEST OR FARTHEST HEAD ON THE CONTROL VALVE ZONE (MEASURE PSI AT HEAD). INSTALL THE RCV INSIDE A STANDARD RECTANGULAR VALVE BOX.					K/L2.51
	RAIN BIRD	PLASTIC DRIP REMOTE CONTROL VALVE ASSEMBLY, SIZE AS SHOWN (1" AND 1 1/2" SIZES). COMPLETE WITH PLASTIC CONTROL VALVE, DRIP FILTER AND PRESSURE REGULATION, AS SHOWN BELOW BY SIZE: FOR 1" DRIP ZONES: 100-PESB VALVE AND A PRB-QKCHK-100 PRESSURE REGULATING, 200 MESH BASKET FILTER. IN A STANDARD RECTANGULAR BOX. FOR 1 1/2" DRIP ZONES: XCZ-150-LCDR PESB VALVE, LCRBY-150D, AND A 1 1/2" 40PSI PRESSURE REGULATOR. IN A JUMBO RECTANGULAR BOX.					L/L2.52
	AS APPROVED	PVC PIPE 3/4" - 2" SCH. 40, SOLVENT WELD WITH SCH. 40 PVC FITTINGS, AS LATERAL LINES INSTALLED 12" BELOW FINISHED GRADE					M/L2.52
	AS APPROVED	PVC PIPE 2 1/2" CL. 315, SOLVENT WELD WITH SCH. 80 PVC FITTINGS, AS MAINLINES INSTALLED 18" BELOW FINISHED GRADE					M,O/L2.52
	AS APPROVED	PVC PIPE SCH. 40 AS SLEEVING, 2 TIMES THE DIAMETER OF PIPE OR WIRE BUNDLE CARRIED (2" MINIMUM SIZE) INSTALL ALL PIPE AND WIRE UNDER PAVING, HARDSCAPE, ETC. (OR AS DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE) INSIDE SLEEVES. SLEEVES UNDER PEDESTRIAN PAVING SHALL BE INSTALLED 24" BELOW FINISHED GRADE. SLEEVES UNDER VEHICULAR PAVING SHALL BE INSTALLED 36" BELOW FINISHED GRADE.					N/L2.52
NO SYMBOL	LASCO	ALL FITTINGS USED WITH SOLVENT WELD MAINLINE PIPE SHALL BE SCH. 80 PVC FITTINGS, GRAY IN COLOR, AND SIZED TO MATCH THE MAINLINE PIPE. ALL FITTINGS USED WITH SOLVENT WELD LATERAL LINE PIPE SHALL BE SCH. 40 PVC, WHITE IN COLOR, AND SIZED TO MATCH THE LATERAL LINE PIPE. ALL THREADED PVC NIPPLES SHALL BE SCH. 80 PVC PIPE, DARK GRAY IN COLOR, WITH MOLDED THREADS.					N/A
NO SYMBOL	AS APPROVED	ALL SOLVENT WELD CONNECTIONS FOR BOTH MAINLINE AND LATERAL LINE SHALL BE MADE USING THE TWO-STEP PROCESS OF PRIMER AND SOLVENT CEMENT. PRIMER SHALL BE LOW VOC "PURPLE PRIMER". MAINLINE SOLVENT CEMENT SHALL BE LOW VOC, "GRAY-HEAVY BODY" CEMENT. LATERAL LINE SOLVENT CEMENT SHALL BE LOW VOC, GRAY OR BLUE COLORED MEDIUM BODIED CEMENT. USE DAUBERS SIZED AT LEAST ONE-HALF THE SIZE OF THE PIPE BEING SOLVENT WELDED. ALL SOLVENT CEMENTED JOINTS SHALL BE MADE PER THE PIPE AND FITTING MANUFACTURER'S RECOMMENDATIONS.					N/A
NO SYMBOL	AS APPROVED	ALL SOLVENT WELD MAINLINES ABOVE 2" IN SIZE SHALL HAVE CONCRETE THRUST BLOCKING INSTALLED AT ALL DIRECTIONAL CHANGES INCLUDING ELBOWS (45° AND 90°) AND TEES. MAINLINE PIPES UNDER 2" SIZE AND ALL LATERAL LINES DO NOT REQUIRE THRUST BLOCKING.					O/L2.52
NO SYMBOL	AS APPROVED	1" SCH. 40 PVC, GRAY ELECTRICAL CONDUIT FOR FLOW SENSOR / MASTER VALVE WIRES, PROVIDE PULL BOX AT A MAXIMUM OF 200 FEET ON CENTER FOR A 3 FOOT WIRE LOOP OR ANY SPLICES. INSTALL INSIDE A STANDARD RECTANGULAR VALVE BOX.					N/A
NO SYMBOL	PAIGE ELECTRIC	P7079D POLYETHYLENE INSULATED, SOLID COPPER CONDUCTOR IRRIGATION CONTROL WIRE #14UF AWG DIRECT BURIAL (U.L. APPROVED). PILOT WIRES SHALL BE RED IN COLOR, COMMON GROUND WIRE SHALL BE WHITE IN COLOR. SPARE WIRES SHALL BE YELLOW IN COLOR. WHERE MULTIPLE CONTROLLERS ARE USED ON THE PROJECT, EACH CONTROLLER SHALL HAVE A DIFFERENT COLOR FOR PILOT WIRES. THE CONTRACTOR SHALL ROUTE TWO (2) SPARE CONTROL WIRES (YELLOW) FROM THE CONTROLLER ALONG THE MAINLINE IN ALL DIRECTIONS AWAY FROM THE CONTROLLER. LOOP SPARE WIRES UP AND INTO EACH VALVE BOX ALONG THE MAINLINE, PROVIDING A 3 FOOT MINIMUM LOOP.					M,N,P/L2.52
NO SYMBOL	GPH IRRIGATION	GDBRY6 DIRECT BURIAL, 100% SILICONE GEL, WATER-PROOF WIRE CONNECTORS FOR USE ON ALL WIRE SPLICES AND CONNECTIONS					P/L2.52
NO SYMBOL	NDS (K.B.I.)	KSC-XXX-S SWING CHECK VALVE, LATERAL LINE SIZE, INSTALL ONE (1) ON THE DOWNSTREAM SIDE OF EACH RCV WHEN THE RCV IS LOWER THAN THE SPRINKLERS, BUBBLERS OR DRIP EMITTERS. INSTALL WITHIN SPRINKLER / BUBBLER / DRIP ZONES AS REQUIRED TO PREVENT LOW HEAD DRAINAGE.					N/A
NO SYMBOL	NDS (K.B.I.)	KC-XXX-S SPRING CHECK VALVE, LATERAL LINE SIZE, INSTALL ONE (1) ON THE DOWNSTREAM SIDE OF EACH RCV WHEN THE RCV IS HIGHER THAN THE SPRINKLERS, BUBBLERS OR DRIP EMITTERS. INSTALL WITHIN SPRINKLER / BUBBLER / DRIP ZONES AS REQUIRED TO PREVENT LOW HEAD DRAINAGE.					N/A
NO SYMBOL	RAIN BIRD	ALL VALVE BOXES SHALL BE VB SERIES, PLASTIC TYPE WITH OVERLAPPING LIDS. VALVE BOX BODIES SHALL BE BLACK IN COLOR. LIDS FOR BOXES IN TURF AREAS SHALL BE GREEN. LIDS FOR VALVE BOXES IN SHRUB AREAS SHALL BE BLACK. ALL BOXES SHALL BE SECURED WITH A RAIN BIRD VB-LOCK-P PENTA HEAD BOLT, WASHER AND CLIP. BOXES SHALL BE AS SHOWN BELOW:					Q/L2.52

DESCRIPTION	TURF AREAS (GREEN LIDS)	SHRUB AREAS (BLACK BOXES AND LIDS)
7" ROUND BOXES	VB-7RND	VB-7RNDB (BOX) AND VB-7RNDBKL (LID)
10" ROUND BOXES	VB-10RND	VB-10RNDB (BOX) AND VB-10RNDBKL (LID)
STANDARD RECTANGULAR BOXES	VB-STD	VB-STDB (BOX) AND VB-STDBKL (LID)
JUMBO RECTANGULAR BOXES	VB-JMB	VB-JMBB (BOX) AND VB-JMBBKL (LID)

VALVE CALLOUT LEGEND

A20	1.5"	35	30
1	S	1.75	1,500

CONTROLLER LETTER / STATION NUMBER
VALVE SIZE IN INCHES
VALVE FLOW RATE IN G.P.M.
OPERATING PRESSURE (PSI)
ZONE AREA (SFT)
ZONE PRECIPITATION RATE (IN./HR.)
IRRIGATION METHOD SEE CHART
HYDROZONE NUMBER SEE CHART

FOR DRIP TUBING ZONES

1,750' TUBING — LENGTH OF DRIP TUBING

HYDROZONE DESCRIPTION CHART			
NUMBER	DESCRIPTION OF THE HYDROZONE	WUCOLS	PLANT FACTOR
HZ 1	LOW WATER USE PLANTINGS	L	0.20
HZ 2	MODERATE WATER USE PLANTINGS	M	0.40
HZ 3	MODERATE WATER USE TURF	M	0.70
HZ 4	LOW WATER USE TREES	L	0.20
HZ 5	MODERATE WATER USE TREES	M	0.40

IRRIGATION METHOD DESCRIPTION CHART			
LETTERS	DESCRIPTION OF THE IRRIGATION	TYPE	IR. EFFICIENCY
S	SPRAY HEADS	SPRAY	0.75
RT	ROTARY HEADS	SPRAY	0.75
DT	DRIP TUBING	DRIP	0.81
TB	TREE BUBBLERS	DRIP	0.81

MWELO INCLUDES IB2 BLDG. AND STUDENT SERVICES BLDG. IRRIGATION

WATER EFFICIENT LANDSCAPE WORKSHEET

This worksheet is filled out by the project applicant and it is a required element of the Landscape Documentation Package

Project Name: Compton College IB2 & Student Services
Project Address: 1111 W. Artesia Blvd. Compton , CA

sweeney + associates IRRIGATION DESIGN AND CONSULTING

Reference Evapotranspiration (ETo) 50.1 In./Yr. Residential Project? No

Hydrozone # / Planting Description*	Plant Factor	Irrigation Method*	Irrigation Efficiency (IE)*	ETAF (PF / IE)	Landscape Area (Sq. Ft.)	ETAF x Area	Estimated Total Water Use (ETWU)*
Regular Landscape Areas							
1. Low Water Use Plantings	0.20	Drip	0.81	0.25	10,833	2,708	84,124
1. Low Water Use Plantings	0.40	Overhead	0.75	0.54	6,549	3,536	109,850
2. Moderate Water Use Plantings	0.20	Drip	0.81	0.25	4,420	1,105	34,324
2. Moderate Water Use Plantings	0.40	Overhead	0.75	0.54	1,384	747	23,214
4. Low Water Use Trees in DG	0.20	Drip	0.81	0.25	4,905	1,226	38,090
5. Moderate Water Use Trees in DG	0.40	Drip	0.81	0.50	3,121	1,561	48,472
				Totals:	31,212	10,884	
Special Landscape Areas							
3. Active Play Turf				1.00	18,363	18,363	570,392
				Totals:	18,363	18,363	
				Estimated Total Water Use (ETWU) Total:			908,465
				Maximum Applied Water Allowance (MAWA)*:			1,006,670

* Hydrozone # / Planting Description	* Irrigation Method	* Irrigation Efficiency
E.g.	*Overhead Spray of*	*0.75 for Spray*
1.) Front Lawn	*Drip*	*0.81 for Drip*
2.) Low Water Use Plantings		
3.) Medium Water Use Plantings		

***ETWU (Annual Gallons Required)** = ETo x 0.62 x ETAF x Area*
Where 0.62 is a conversion factor that converts acre-inches/acre/year to gallons/square foot/year.

***MAWA (Annual Gallons Allowed)** = ETo x 0.62 x [(ETAF x LA) + ((1 - ETAF) x SLA)]*
Where 0.62 is a conversion factor that converts acre-inches/acre/year to gallons/square foot/year, LA is the total landscape area in square feet, SLA is the total special landscape area in square feet, and ETAF is 0.55 for residential projects and 0.45 for non-residential projects.

Evapotranspiration Adjustment Factor (ETAF) Calculations

***This non-residential project complies with the WELO and its average ETAF is less than** 0.45*

Regular Landscape Areas		All Landscape Areas	
Total ETAF x Area	10,884	Total ETAF x Area	29,247
Total Area	31,212	Total Area	49,575
Average ETAF	0.35	Average ETAF	0.59

IRRIGATION CONTROLLER SCHEDULE INCLUDES IB2 BLDG. AND STUDENT SERVICES BLDG. IRRIGATION

IRRIGATION CONTROLLER RUN TIMES

POC or Controller: A	AKc	Pr Rate	IE		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total / Avg.
				ETo / Month (inches):	2.20	2.70	3.70	4.70	5.50	5.80	6.20	5.90	5.00	3.90	2.60	1.90	50.10
				ETo / Day (inches):	0.07	0.10	0.12	0.16	0.18	0.19	0.20	0.19	0.17	0.13	0.09	0.06	0.14
				Irrigation Days / Week:	2	2	3	3	5	5	6	6	5	3	2	2	
Plant / Irrig. Type	AKc	Pr Rate	IE		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
Low Shrubs	0.20	0.79	0.81		4.7	6.3	5.2	6.9	4.7	5.1	4.4	4.2	4.4	5.5	5.7	4.0	Min./Day/Zone
Drip Tubing	Number of Zones:		8		37.3	50.6	41.8	54.8	37.3	40.6	35.0	33.3	35.0	44.0	45.5	32.2	Total Min./Day
Low Shrubs	0.20	0.70	0.75		5.7	7.7	6.4	8.4	5.7	6.2	5.3	5.1	5.3	6.7	6.9	4.9	Min./Day/Zone
Rotary Heads	Number of Zones:		2		11.4	15.4	12.7	16.7	11.4	12.4	10.7	10.2	10.7	13.4	13.9	9.8	Total Min./Day
Moderate Shrubs	0.40	0.79	0.81		9.3	12.7	10.4	13.7	9.3	10.2	8.8	8.3	8.8	11.0	11.4	8.0	Min./Day/Zone
Drip Tubing	Number of Zones:		4		37.3	50.6	41.8	54.8	37.3	40.6	35.0	33.3	35.0	44.0	45.5	32.2	Total Min./Day
Moderate Shrubs	0.70	1.83	0.81		7.0	9.6	7.9	10.4	7.0	7.7	6.6	6.3	6.6	8.3	8.6	6.1	Min./Day/Zone
Sprays	Number of Zones:		4		28.2	38.3	31.6	41.4	28.2	30.7	26.4	25.2	26.4	33.3	34.4	24.3	Total Min./Day
Moderate Shrubs	0.40	0.70	0.75		11.4	15.4	12.7	16.7	11.4	12.4	10.7	10.2	10.7	13.4	13.9	9.8	Min./Day/Zone
Rotary Heads	Number of Zones:		1		11.4	15.4	12.7	16.7	11.4	12.4	10.7	10.2	10.7	13.4	13.9	9.8	Total Min./Day
Moderate Turf	0.70	1.64	0.75		8.5	11.5	9.5	12.5	8.5	9.2	8.0	7.6	8.0	10.0	10.4	7.3	Min./Day/Zone
Rotors	Number of Zones:		4		33.9	46.1	38.0	49.9	33.9	37.0	31.9	30.3	31.9	40.1	41.4	29.3	Total Min./Day
Moderate Turf	0.70	0.70	0.75		19.9	27.0	22.3	29.2	19.9	21.7	18.7	17.8	18.7	23.5	24.3	17.2	Min./Day/Zone
Rotary Heads	Number of Zones:		1		19.9	27.0	22.3	29.2	19.9	21.7	18.7	17.8	18.7	23.5	24.3	17.2	Total Min./Day
Low Trees in DG	0.20	0.79	0.81		4.7	6.3	5.2	6.9	4.7	5.1	4.4	4.2	4.4	5.5	5.7	4.0	Min./Day/Zone
Drip Tubing	Number of Zones:		3		14.0	19.0	15.7	20.6	14.0	15.2	13.1	12.5	13.1	16.5	17.1	12.1	Total Min./Day
Moderate Trees in DG	0.40	0.79	0.81		9.3	12.7	10.4	13.7	9.3	10.2	8.8	8.3	8.8	11.0	11.4	8.0	Min./Day/Zone
Drip Tubing	Number of Zones:		2		18.6	25.3	20.9	27.4	18.6	20.3	17.5	16.7	17.5	22.0	22.8	16.1	Total Min./Day
Low Trees	0.20	1.00	0.75		4.0	5.4	4.5	5.8	4.0	4.3	3.7	3.6	3.7	4.7	4.9	3.4	Min./Day/Zone
Bubblers	Number of Zones:		3		11.9	16.2	13.4	17.5	11.9	13.0	11.2	10.7	11.2	14.1	14.6	10.3	Total Min./Day
Moderate Trees	0.40	1.00	0.75		7.9	10.8	8.9	11.7	7.9	8.7	7.5	7.1	7.5	9.4	9.7	6.9	Min./Day/Zone
Bubblers	Number of Zones:		3		23.8	32.4	26.7	35.1	23.8	26.0	22.4	21.3	22.4	28.2	29.1	20.6	Total Min./Day
Total Number of Zones:			35		248	336	278	364	248	270	233	221	233	293	302	214	Total Min./Day
Total Controller Run Time in Hours:					4.13	5.61	4.63	6.07	4.13	4.50	3.88	3.69	3.88	4.88	5.04	3.56	Total Hrs./Day
					JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	

Note: These schedules are intended only for compliance with local municipal codes and the water efficient landscape ordinance. These calculations represent the MAXIMUM REASONABLE run times and are used to ensure that all irrigation may be completed during the specific watering window allowed. These schedules do not include rainfall, site soil types, specicic exposures (shade versus sun), actual irrigation days, or specific slope position. It is solely the responsibility of the irrigation contractor to program the controller as required to apply the correct amount of irrigation water for the landscape. All smart controllers shall be programmed using the specified ET or weather sensing equipment, satellite provided ET data, soil moisture sensors, and rain shut off devices as required. Contractor shall provide a controller schedule inside the controller cabinet prior to final turnover of the project to the owner.

I AGREE TO COMPLY WITH THE REQUIREMENTS OF THE WATER EFFICIENT LANDSCAPE ORDINANCE AND SUBMIT A COMPLETE LANDSCAPE DOCUMENTATION PACKAGE
SIGNATURE: DATE: 8/14/2019

I HAVE COMPLIED WITH THE CRITERIA OF THE ORDINANCE AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE DESIGN PLANS.

811

sweeney + associates
IRRIGATION DESIGN AND CONSULTING
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Murrieta, Ca 92563
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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-119686 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/14/2019

DIVISION OF THE STATE ARCHITECT
335 SOUTH GRAND AVENUE, SUITE 2100
LOS ANGELES, CA 90071
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tBP/Architecture
4611 Teller Avenue
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architect

AHBE LANDSCAPE ARCHITECTS
617 WEST SEVENTH STREET
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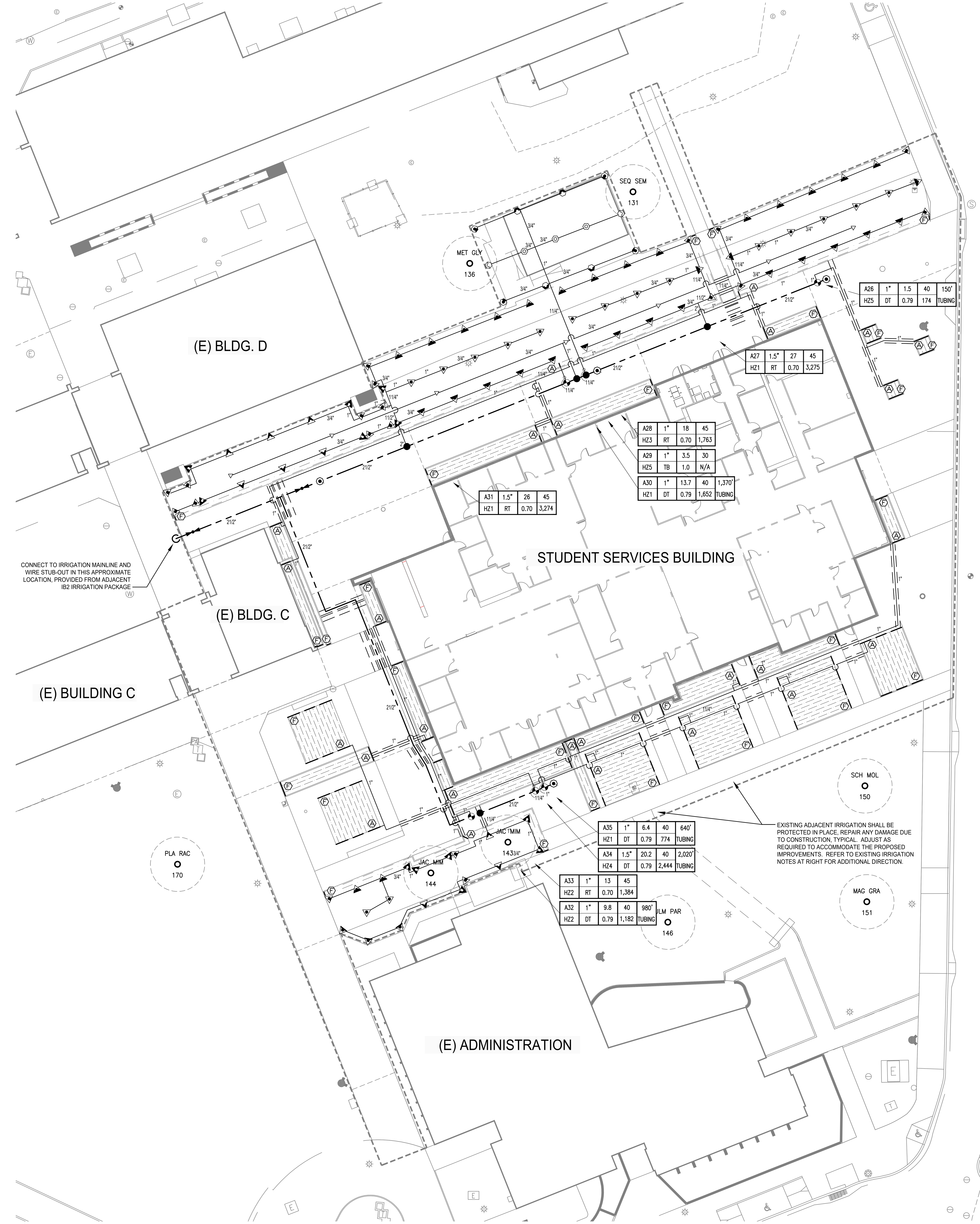
consultant

COMPTON COLLEGE
STUDENT SERVICES BLDG.
COMPTON COMMUNITY COLLEGE DISTRICT
1111 E. ARTESIA BLVD.
COMPTON, CA 90221
owner

tBP project number : 20987.00
file name: 117039_L200.dwg
drawn by: WC checked by: EM
date: 9.3.2019
Rev: date: description:

drawing title:
IRRIGATION LEGEND AND NOTES

drawing no.:
L2.00



NOTE A:
THESE PLANS ARE DIAGRAMMATIC, THE MAINLINE AND RELATED IRRIGATION EQUIPMENT IS SHOWN WITHIN THE PAVING FOR CLARITY ONLY. THE ACTUAL LOCATION OF MAINLINE AND RELATED IRRIGATION EQUIPMENT SHALL BE WITHIN PLANTER AND A MINIMUM OF 18" OFF ADJACENT HARDSCAPE AND OTHER OBSTACLES, TYPICAL.

NOTE B:
CONTRACTOR SHALL ADJUST ALL HEADS AS REQUIRED TO ACCOMMODATE ANY VERTICAL OBSTRUCTIONS THAT MAY OCCUR IN THE LANDSCAPE, INCLUDING BUT NOT LIMITED TO LIGHT POLES, FIRE HYDRANTS, TREES, ETC. WHEN A SLIGHT RELOCATION OF THE HEAD IS NOT SUFFICIENT TO CLEAR THE OBSTACLE, OR IF IT NEGATIVELY AFFECTS THE COVERAGE, AN ADDITIONAL HEAD SHALL BE INSTALLED TO PLACE ONE HEAD ON EITHER SIDE OF THE OBSTACLE. THE NOZZLES OF THESE TWO HEADS SHALL HAVE ARC PATTERNS THAT ADD UP TO THE ORIGINAL ARC PATTERN OF THE HEAD INDICATED ON THE PLANS. THE CONTRACTOR SHALL VERIFY ALL HEAD LAYOUT WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

NOTE C:
THESE PLANS ARE DIAGRAMMATIC, TREE BUBBLERS AND LATERAL LINES ARE SHOWN WITHIN THE PAVING FOR CLARITY ONLY, THE ACTUAL LOCATIONS SHALL BE WITHIN THE PLANTER. THE TREE BUBBLERS SHALL BE ALIGNED WITH TREES AS SHOWN ON THE PLANTING PLANS, AND AS DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE. THE CONTRACTOR SHALL CONFIRM ALL LAYOUT IN FIELD WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

NOTE D:
PRIOR TO START OF CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO THE OWNER AND LANDSCAPE ARCHITECT A SCALED SHOP DRAWING INDICATING THE PROPOSED LOCATIONS FOR THE IRRIGATION EQUIPMENT LISTED BELOW. THE SHOP DRAWING SHALL BE PREPARED TO THE SATISFACTION OF THE OWNER AND LANDSCAPE ARCHITECT. SHOP DRAWINGS MUST INCLUDE THE PROPOSED LOCATIONS FOR THE FOLLOWING ITEMS:

1. POINT OF CONNECTION (INCLUDING WATER POC, BACK FLOW DEVICES, MASTER CONTROL VALVES, FLOW SENSORS, ETC.)
2. ISOLATION VALVES
3. AUTOMATIC CONTROL VALVES (INDICATE STATION NUMBER)
4. QUICK COUPLING VALVES
5. IRRIGATION CONTROLLER(S)
7. RELATED EQUIPMENT (AS MAY BE DIRECTED).

EACH PIECE OF AFOREMENTIONED EQUIPMENT SHALL HAVE IT'S PROPOSED INSTALLED LOCATION SHOWN ON THE SHOP DRAWINGS. THE SYMBOL FOR EACH PRODUCT SHALL BE A SCALED REPRESENTATION OF THE FOOTPRINT OF THE EQUIPMENT OR THE VALVE BOX IN WHICH THE EQUIPMENT IS INSTALLED. CONTRACTOR SHALL INSTALL ALL VALVE BOXES AND RELATED EQUIPMENT PER THE OWNER APPROVED SHOP DRAWINGS. ONCE THE SHOP DRAWING LOCATIONS ARE APPROVED, THE LANDSCAPE ARCHITECT OR OWNER'S AUTHORIZED REPRESENTATIVE WILL ALLOW NO ADJUSTMENTS TO THE APPROVED VALVE BOX PLACEMENT WITHOUT PRIOR WRITTEN ACCEPTANCE. ANY IRRIGATION EQUIPMENT INSTALLED WITHOUT PRIOR APPROVAL WITH SHOP DRAWINGS WILL BE SUBJECT TO RELOCATION BASED ON DIRECTION BY THE LANDSCAPE ARCHITECT AT THE CONTRACTOR'S EXPENSE.

EXISTING IRRIGATION NOTES

NOTE 1:
CONTRACTOR SHALL MAINTAIN EXISTING MAINLINES IN WORKING ORDER. COORDINATE ALL INTERRUPTIONS OF OPERATION OF THE EXISTING IRRIGATION TO A MINIMUM. COORDINATE ALL INTERRUPTIONS WITH THE OWNER'S REPRESENTATIVE.

NOTE 2:
CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING IRRIGATION EQUIPMENT DAMAGED DURING CONSTRUCTION AND IF DAMAGED, SHALL REPLACE WITH SAME MANUFACTURER AND MODEL.

NOTE 3:
ANY EXISTING IRRIGATION CONTROL VALVES CONNECTED TO EXISTING CONTROLLER SHALL BE RECONNECTED TO EXISTING CONTROLLER. CONFIRM PROPER CONTROLLER OPERATION AND INSTALLATION WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK AND UPON COMPLETION OF WORK.

NOTE 4:
CONTRACTOR SHALL CONFIRM THE EXISTING CONTROLLER MAKE AND MODEL AND SHALL CONFIRM THAT SAID CONTROLLER HAS ADEQUATE OPEN STATIONS TO OPERATE ANY ADJUSTED AND ALL PROPOSED IRRIGATION SYSTEM MODIFICATIONS. NOTIFY OWNER'S AUTHORIZED REPRESENTATIVE SHOULD ANY DISCREPANCIES BE NOTED.

NOTE 5:
CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR/MODIFICATION/REROUTING OF ALL ADJACENT IRRIGATION SYSTEM EQUIPMENT THAT IS AFFECTED BY NEW CONSTRUCTION IMPROVEMENTS. CONTRACTOR SHALL REPAIR SAID SYSTEMS TO A LIKE NEW MANNER, PROVIDING NO LESS THAN 100% OF HEAD RADIUS COVERAGE IN ALL AREAS WITH SYSTEM LAYOUT AS APPROVED BY OWNER'S AUTHORIZED REPRESENTATIVE. CONTRACTOR SHALL CONFIRM ALL AREAS REQUIRING MODIFICATION WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO BIDDING WORK AND PRIOR TO STARTING WORK.

NOTE 6:
CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE REMOVAL AND DISPOSAL OF ALL EXISTING IRRIGATION EQUIPMENT AFFECTED BY THE NEW CONSTRUCTION IMPROVEMENTS, IF NECESSARY. CONTRACTOR SHALL VERIFY ALL EQUIPMENT TO BE REMOVED AND DISPOSED OF IN FIELD PRIOR TO BIDDING WORK AND PRIOR TO STARTING WORK.

NOTE 7:
CONTRACTOR SHALL FIELD VERIFY DEPTH AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO BIDDING WORK AND AGAIN PRIOR TO STARTING WORK. VERIFICATION SHALL BE DOCUMENTED AND DELIVERED TO OWNER'S REPRESENTATIVE.

NOTE 8:
CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLACEMENT OF ALL SCH 40 PVC SLEEVING UNDER PAVING, WALLS AND CURBS AT NO LESS THAN 24" BELOW GRADE AND NO LESS THAN 2X DIAMETER OF IRRIGATION PIPE IN AREAS WHERE PIPE CROSSING WILL OCCUR. WHEN PIPE SIZE IS NOT AVAILABLE USE 6" SLEEVING MATERIAL. CONFIRM CROSSINGS WITH OWNER'S REPRESENTATIVE PRIOR TO PAVING AND HARDSCAPE CONSTRUCTION.

NOTE 9:
EXISTING IRRIGATION IN THIS AREA SHALL BE PROTECTED IN PLACE FOR CONTINUED USE. CONTRACTOR SHALL VERIFY THE EXTENT OF THE EXISTING SYSTEM AND MAKE ADJUSTMENTS TO CAP OFF OR MODIFY THE EXISTING SYSTEM TO MEET THE NEW LANDSCAPE CONDITION IF NECESSARY.

NOTE 10:
CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING WITHIN THE DRIPLINE OF EXISTING TREES. NO MECHANICAL TRENCHING WITHIN THE DRIPLINE OF THE EXISTING TREE WILL BE ALLOWED. AIR SPADE SHALL BE UTILIZED FOR ALL TRENCHING WITHIN THE DRIPLINE OF TREES. CONTRACTOR SHALL REFER TO ARBORIST REPORT FOR ADDITIONAL PRECAUTIONS REQUIRED FOR THE EXISTING TREES. VERIFY ALL LAYOUT IN FIELD WITH OWNER'S AUTHORIZED REPRESENTATIVE.

IRRIGATION CONTROLLER IS A WEATHER BASED CONTROLLER.

BUILDINGS ON SITES WITH OVER 2,500 SQ. FT. OF CUMULATIVE IRRIGATED LANDSCAPED AREAS SHALL HAVE IRRIGATION CONTROLLERS WHICH ARE EITHER WEATHER OR SOIL BASED (PER SECTION 4.304.2)

FOR PROJECTS THAT INCLUDE LANDSCAPE WORK, THE LANDSCAPE CERTIFICATION, FORM GRN 12, SHALL BE COMPLETED PRIOR TO FINAL INSPECTION APPROVAL. (PER STATE ASSEMBLY BILL NO. 1881)

AN OPERATION AND MAINTENANCE MANUAL INCLUDING, AT MINIMUM, THE ITEMS LISTED IN SECTION 4.410.1, SHALL BE COMPLETED AND PLACED IN THE BUILDING AT THE TIME OF FINAL INSPECTION.

PRESSURE REGULATING DEVICES ARE REQUIRED IF WATER PRESSURE IS BELOW OR EXCEEDS THE RECOMMENDED PRESSURE OF THE SPECIFIED IRRIGATION DEVICES.

NO OVERHEAD IRRIGATION WITHIN 24" OF ANY NON-PERMEABLE SURFACE

CHECK VALVES OR ANTI-DRAIN VALVES ARE REQUIRED ON ALL SPRINKLER HEADS WHERE LOW POINT DRAINAGE COULD OCCUR.

A CERTIFICATION OF COMPLETION SHALL BE FILLED OUT AND CERTIFIED EITHER BY THE DESIGNER OF THE LANDSCAPE PLANS, IRRIGATION PLANS, OR THE LICENSED LANDSCAPE CONTRACTOR FOR THE PROJECT.

A DIAGRAM OF THE IRRIGATION PLAN SHOWING HYDROZONES SHALL BE KEPT WITH THE IRRIGATION CONTROLLER FOR SUBSEQUENT MANAGEMENT PURPOSES.

AN IRRIGATION AUDIT REPORT SHALL BE COMPLETED AT THE TIME OF FINAL INSPECTION.

AT THE TIME OF FINAL INSPECTION, THE PERMIT APPLICANT MUST PROVIDE THE OWNER OF THE PROPERTY WITH A CERTIFICATE OF COMPLETION, CERTIFICATE OF INSTALLATION, IRRIGATION SCHEDULE OF LANDSCAPE AND IRRIGATION MAINTENANCE.

UNLESS CONTRADICTED BY A SOILS TESTS, COMPOST AT A RATE OF A MINIMUM OF FOUR CUBIC YARDS PER 1,000 SQUARE FEET OF PERMEABLE AREA SHALL BE INCORPORATED TO A DEPTH OF SIX INCHES INTO THE SOIL.

DEDICATED WATER SERVICE METERS OR PRIVATE SUB-METERS ARE TO INSTALLED FOR ALL NON RESIDENTIAL IRRIGATED LANDSCAPES 1,000 SQUARE FEET UP TO 5,000 SQUARE FEET AND RESIDENTIAL IRRIGATED LANDSCAPES OF 5,000 SQUARE FEET OR GREATER.

ALL IRRIGATION EMISSION DEVICES WILL MEET THE CRITERIA AS SET FORTH IN MWELO SECTION 492.7(a)(1)(M) AND SHALL BE INSTALLED AND OPERATED ACCORDING TO MANUFACTURER'S INSTRUCTIONS/RECOMENDATIONS.

RECIRCULATING WATER SYSTEMS SHALL BE USED FOR WATER FEATURES

CONTRACTOR TO PROTECT AND PRESERVE IN PLACE ALL EXISTING SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE RESET BY A LICENSED LAND SURVEYOR AND THE APPROPRIATE CORNER RECORD MUST BE FILED WITH THE COUNTY OF LOS ANGELES.

SCALE: 1/16" = 1'-0"

0 8' 16' 32' 64'

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LICENSED LANDSCAPE ARCHITECT
CALVIN R. ABE NO. 2023
Signature
10/31/20
Renewal Date
8/28/2019
Date
STATE OF CALIFORNIA
consultant

COMPTON COLLEGE STUDENT SERVICES BLDG.

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tBP project number : 20987.00
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drawn by: WC checked by: EM
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Rev:	date:	description:

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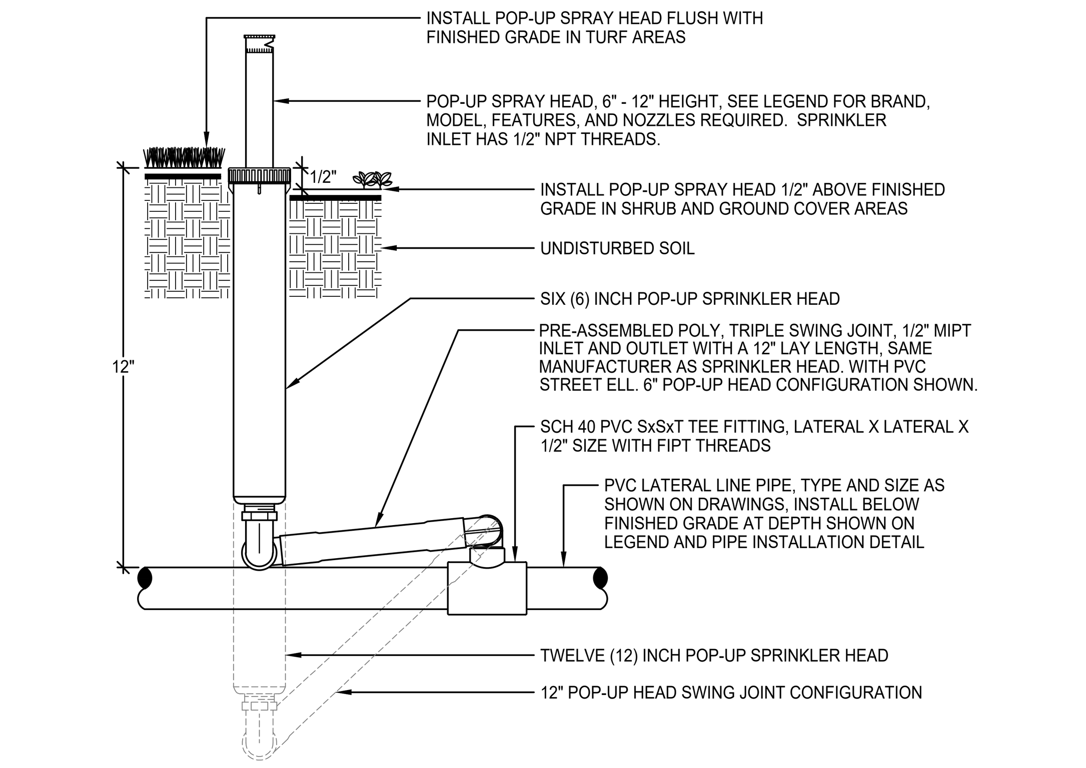
IRRIGATION PLAN

drawing no.:
L2.11

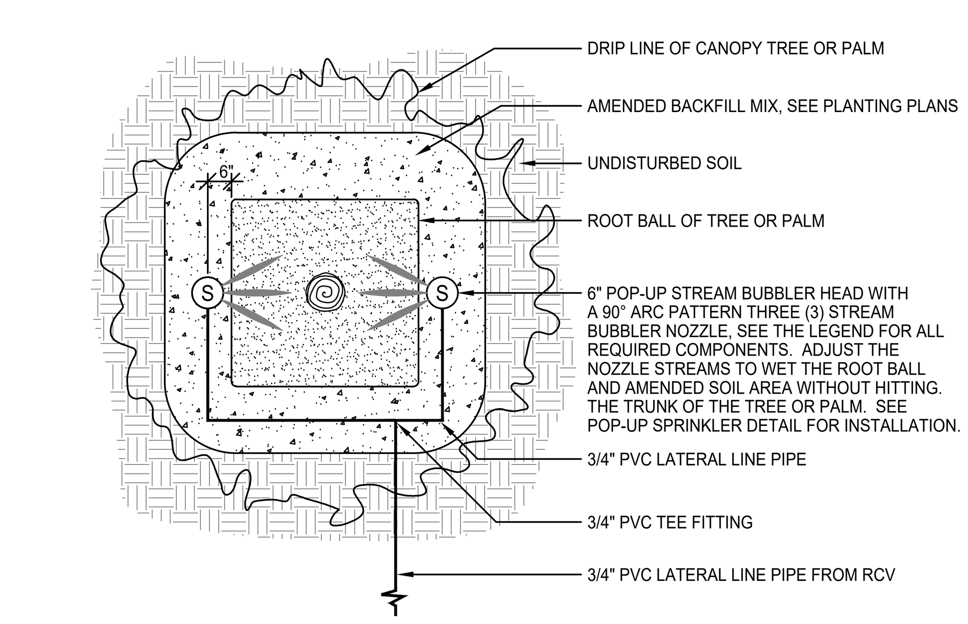


NOTE:
INSTALL SPRAY HEADS 4" FROM PAVING EDGE IN TURF AREAS.
INSTALL SPRAY HEADS 6" FROM PAVING EDGE IN SHRUB AND GROUND COVER AREAS.
INSTALL SPRAY HEADS 12" FROM THE FACE OF BUILDING WALLS OR WINDOWS.

INSTALL SPRAY HEADS PLUMB. ADJUST NOZZLE STREAM TO COVER THE LANDSCAPE AREA WITHOUT OVERSPRAY ONTO PAVING, FENCES, WALLS OR BUILDINGS.

SECTION VIEW - N.T.S.

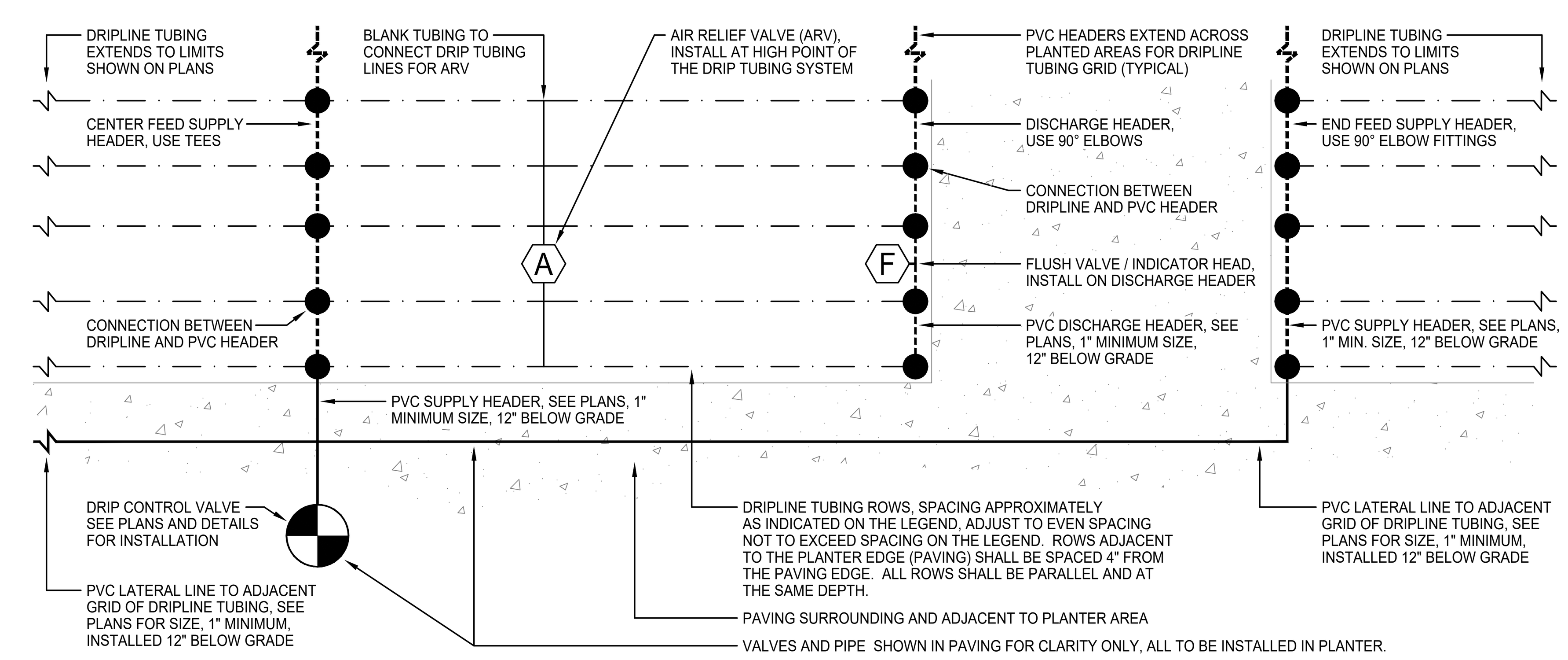
A POP-UP SPRINKLER HEAD



NOTE:
POSITION MSBN-50Q STREAM BUBBLER HEADS 1" FROM THE ROOT BALL.

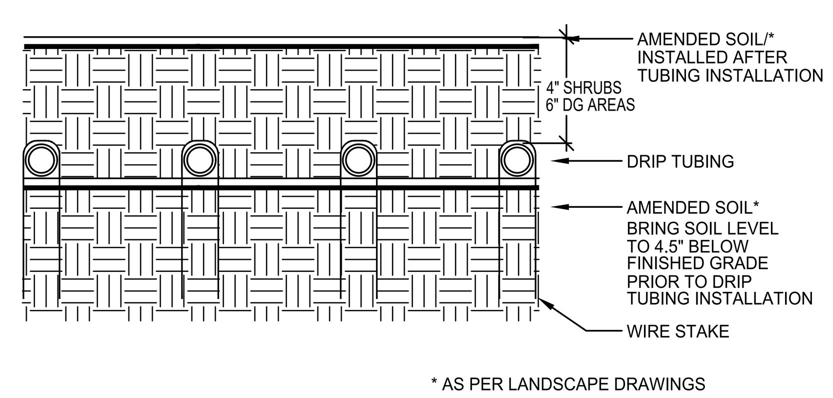
PLAN VIEW - N.T.S.

B TREE BUBBLER LAYOUT



PLAN VIEW - N.T.S.

C DRIP TUBING LAYOUT (PLAN VIEW)



RECOMMENDED INSTALLATION:

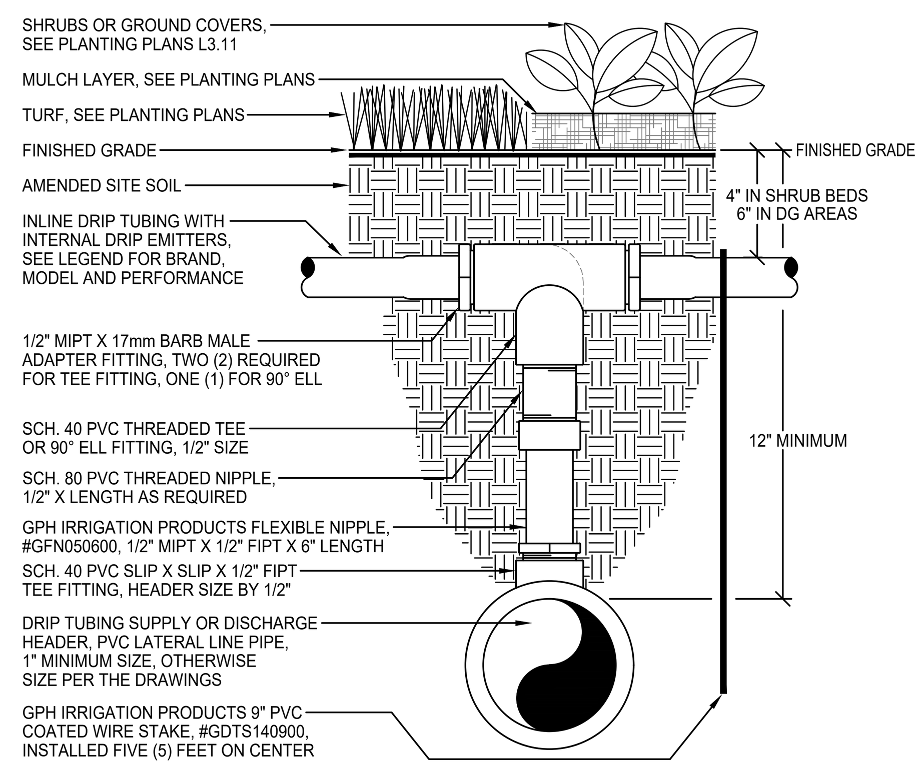
TO INSURE EVEN PARALLEL AND LEVEL TUBING ROWS IT IS RECOMMENDED THAT THE SOIL LEVEL IN THE PLANTER AREAS BE BROUGHT TO 4.5"/6.5" BELOW FINISHED GRADE AND PROPERLY COMPACTED AS PER THE LANDSCAPED DRAWINGS PRIOR TO THE INSTALLATION OF THE TUBING.

INSTALL TUBING AS INDICATED ON THESE DRAWINGS AND SECURE TO GRADE USING WIRE HOOP STAKES AT 5 FEET ON CENTER SPACING.

BACKFILL FINAL 4.5" OF SOIL OVER THE TUBING AFTER INSTALLATION OF THE TUBING AND OBSERVATION BY THE OWNER'S AUTHORIZED REPRESENTATIVE.

SECTION VIEW - N.T.S.

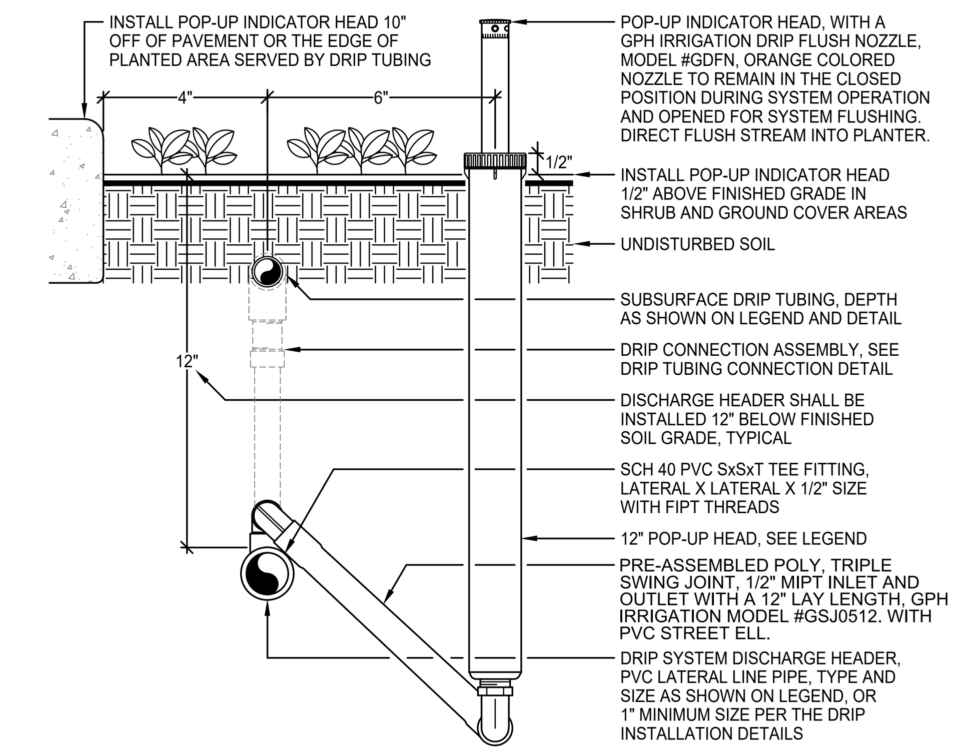
D DRIP TUBING LAYOUT (SECTION VIEW)



NOTE:
DRIP TUBING CONNECTION REQUIRED FOR ALL CONNECTIONS BETWEEN DRIP TUBING AND PVC HEADERS.
FOR CONNECTIONS AT END RUNS OF TUBING, USE A 90° ELL FITTING AND ONE ADAPTER FITTING FOR CONNECTION.
FOR CONNECTIONS IN THE MIDDLE OF RUNS OF TUBING, USE A TEE FITTING AND TWO ADAPTER FITTINGS FOR THE CONNECTION.

SECTION VIEW - N.T.S.

E DRIP TUBING CONNECTION

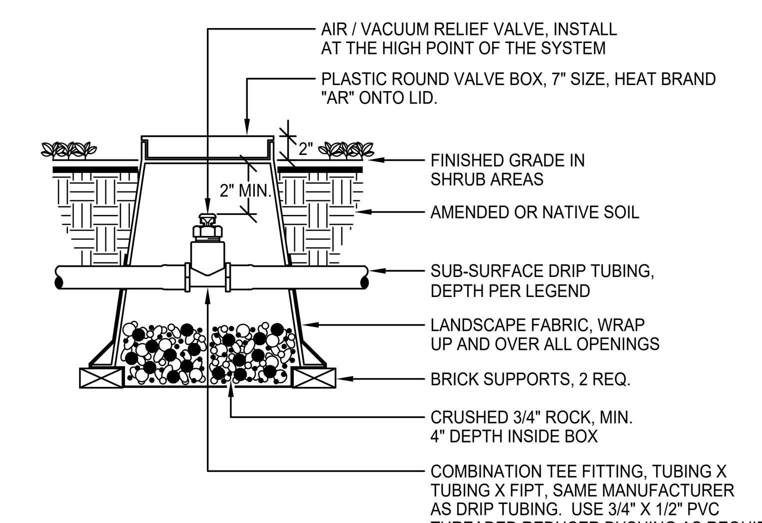


NOTE:
INSTALL INDICATOR HEAD 10" FROM THE EDGE OF PAVING OR THE PLANTER EDGE.

INSTALL ORANGE COLORED INDICATOR NOZZLE ON POP-UP HEAD AND ADJUST TO FULLY CLOSED.

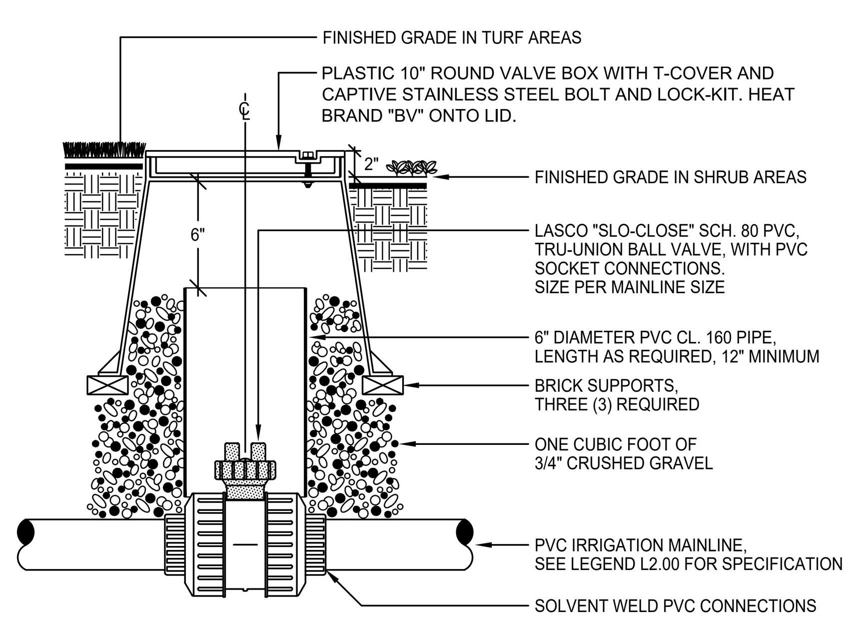
SECTION VIEW - N.T.S.

F FLUSH VALVE/INDICATOR HEAD



SECTION VIEW - N.T.S.

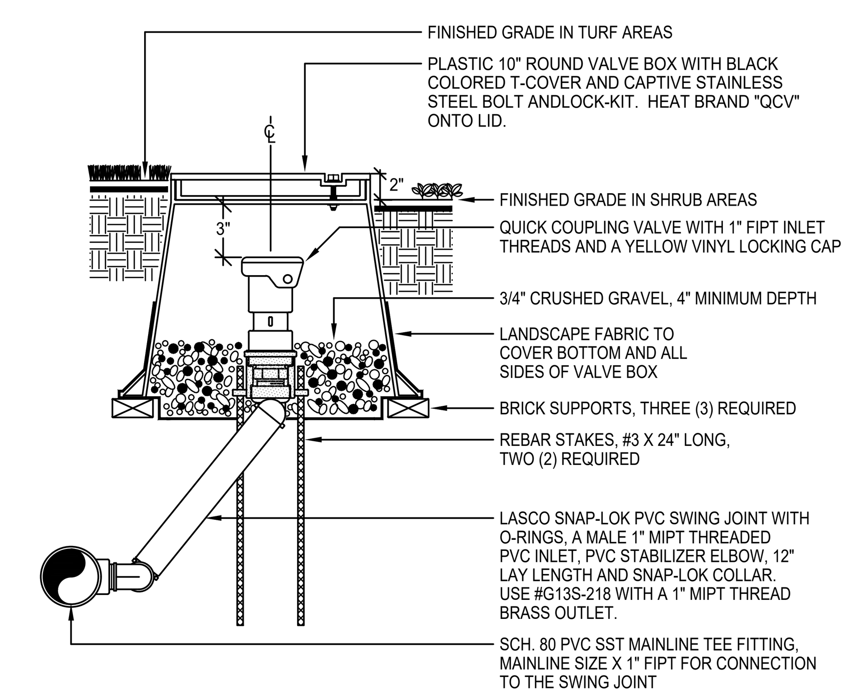
G AIR RELIEF VALVE



NOTE:
PROVIDE ONE (1) 30" LONG STEEL "VALVE KEY" FOR EACH TEN (10) BALL VALVES INSTALLED ON THE PROJECT.

SECTION VIEW - N.T.S.

H BALL VALVE



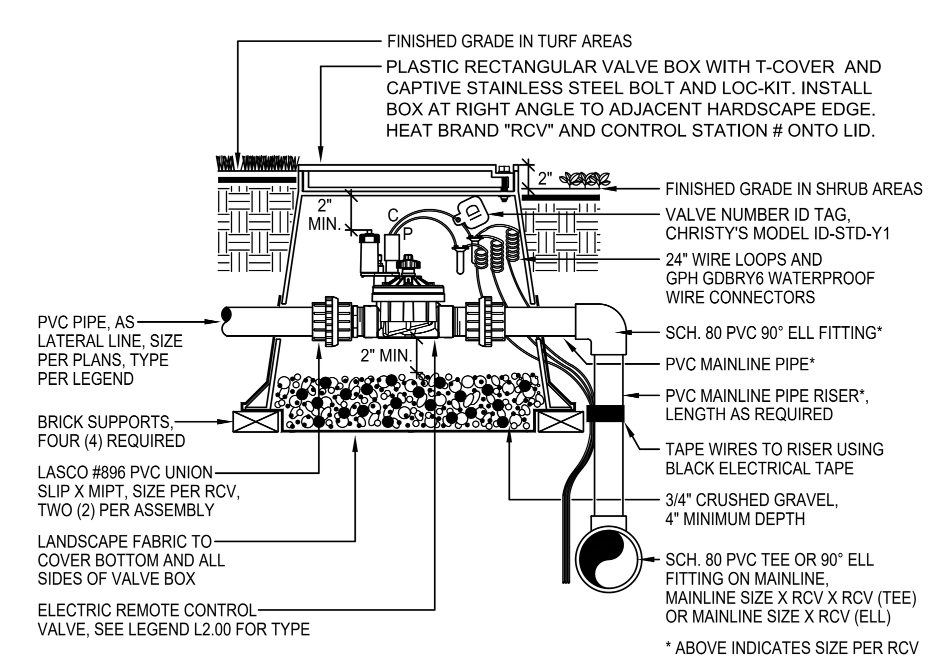
NOTE:
WHEN QCV IS LOCATED ON A MANIFOLD, USE A SCH. 80 SxT 90° ELBOW IN PLACE OF THE TEE FITTING. SIZE THE ELBOW AS MANIFOLD MAINLINE SIZE X 1" FIPT.

WHEN USING A 3/4" QUICK COUPLER VALVE, USE A LASCO G13T-212 SWING JOINT WITH A 3/4" BRASS OUTLET FOR CONNECTION TO THE QCV INLET. ALL OTHER PARTS OF SWING JOINT SHALL REMAIN 1" SIZE.

USE A NON-HARDENING, TEFLON ASSEMBLY PASTE ON ALL THREADED FITTINGS.

SECTION VIEW - N.T.S.

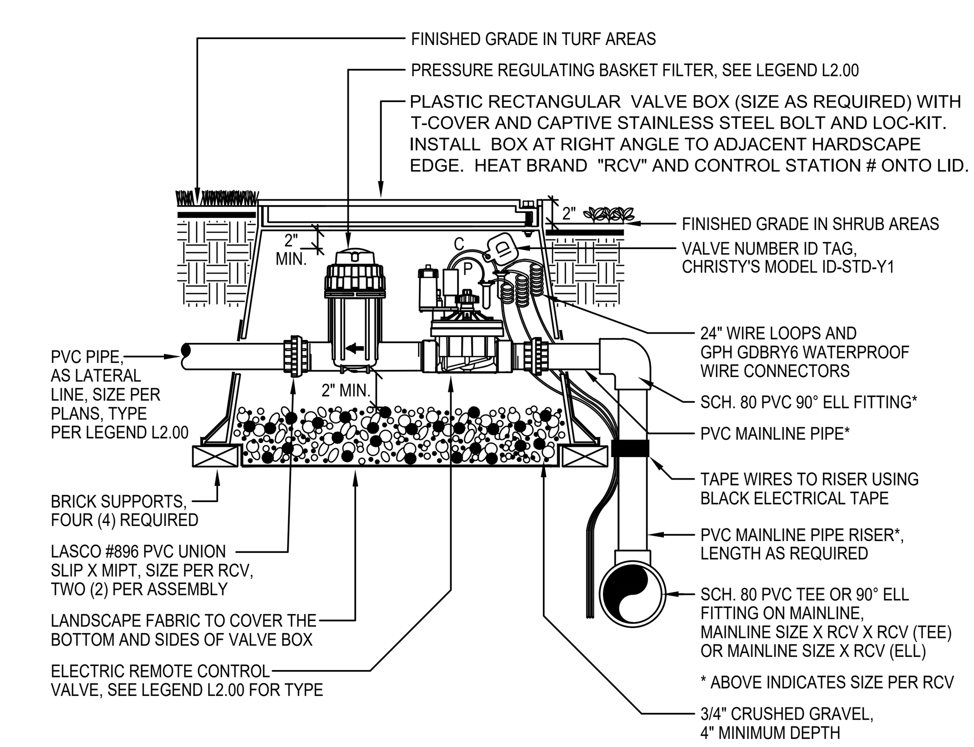
I QUICK COUPLER VALVE



NOTE:
USE AN APPROVED, NON-HARDENING, TEFLON ASSEMBLY PASTE ON ALL THREADED FITTINGS.
USE STANDARD BOX OPENINGS FOR ALL PIPING INTO THE BOX, DO NOT CUT THE BOX.

SECTION VIEW - N.T.S.

J REMOTE CONTROL VALVE



NOTE:
USE AN APPROVED, NON-HARDENING, TEFLON ASSEMBLY PASTE ON ALL THREADED FITTINGS.
USE STANDARD BOX OPENINGS FOR ALL PIPING INTO THE BOX, DO NOT CUT THE BOX.

SECTION VIEW - N.T.S.

K DRIP REMOTE CONTROL VALVE

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drawing title:
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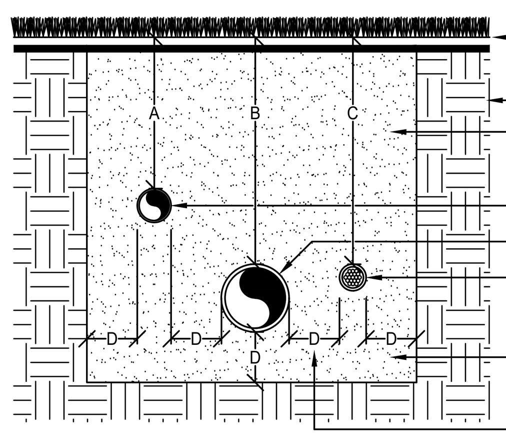
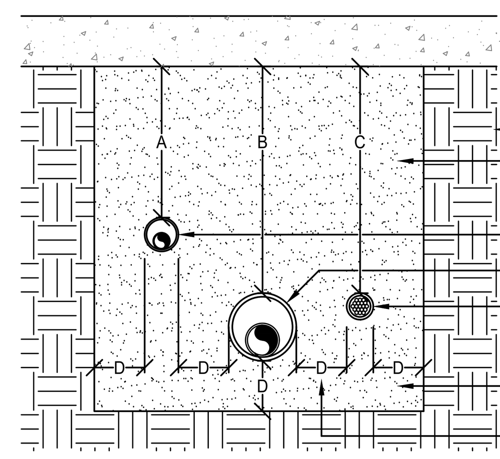


PIPE SIZES	A	B	C	D
SIZES 3/4" TO 2 1/2"	12"	18"	18"	4"
SIZES 3" AND 4"	18"	24"	24"	4"
SIZES 6" AND LARGER		30"	24"	6"

NOTE:
CONTRACTOR IS REQUIRED TO CONTACT 811 OR DIGALERT A MINIMUM OF TWO (2) DAYS PRIOR TO ANY EXCAVATION ON THE PROJECT. DIAL 811 OR LOG ONTO WWW.DIGALERT.ORG.

SECTION VIEW - N.T.S.

(L) PIPE INSTALLATION



PIPE SIZES	A	B	C	D
UNDER PEDESTRIAN PAVING	12"	24"	24"	4"
UNDER VEHICULAR PAVING	24"	36"	36"	6"

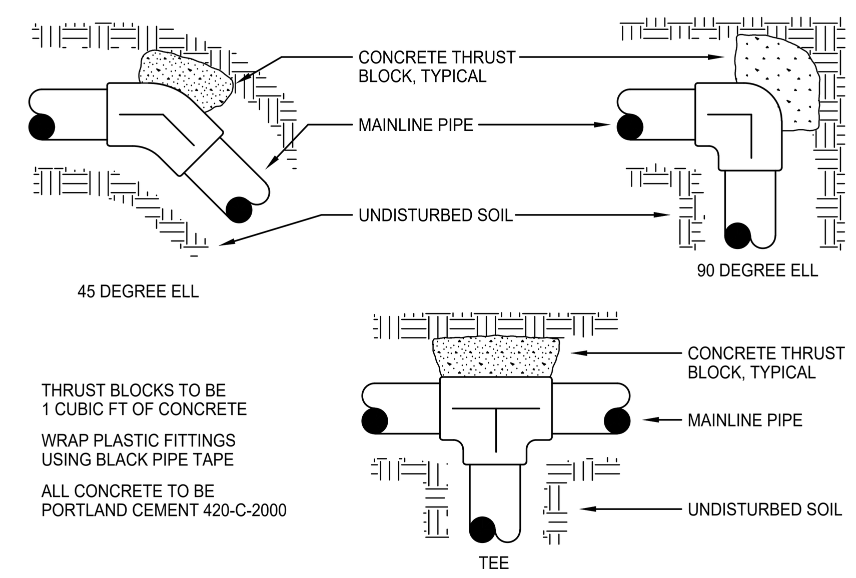
NOTE:
CONTRACTOR IS REQUIRED TO CONTACT 811 OR DIGALERT A MINIMUM OF TWO (2) DAYS PRIOR TO ANY EXCAVATION ON THE PROJECT. DIAL 811 OR LOG ONTO WWW.DIGALERT.ORG.

SLEEVES SHALL BE TWICE THE DIAMETER OF THE PIPE OR WIRE BUNDLE CARRIED WITHIN. EXCEPT WHEN USING BELL AND GASKET PIPING WHERE MAINLINE SLEEVES SHALL BE 2.5 TIMES THE SIZE OF THE PIPE.

SLEEVES SHALL EXTEND 12" PAST THE EDGE OF PAVING INTO THE PLANTER.

SECTION VIEW - N.T.S.

(M) SLEEVE INSTALLATION



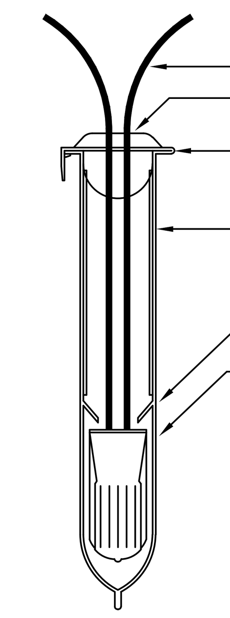
THRUST BLOCKS TO BE 1 CUBIC FT OF CONCRETE

WRAP PLASTIC FITTINGS USING BLACK PIPE TAPE

ALL CONCRETE TO BE PORTLAND CEMENT 420-C-2000

PLAN VIEW - N.T.S.

(N) THRUST BLOCKS

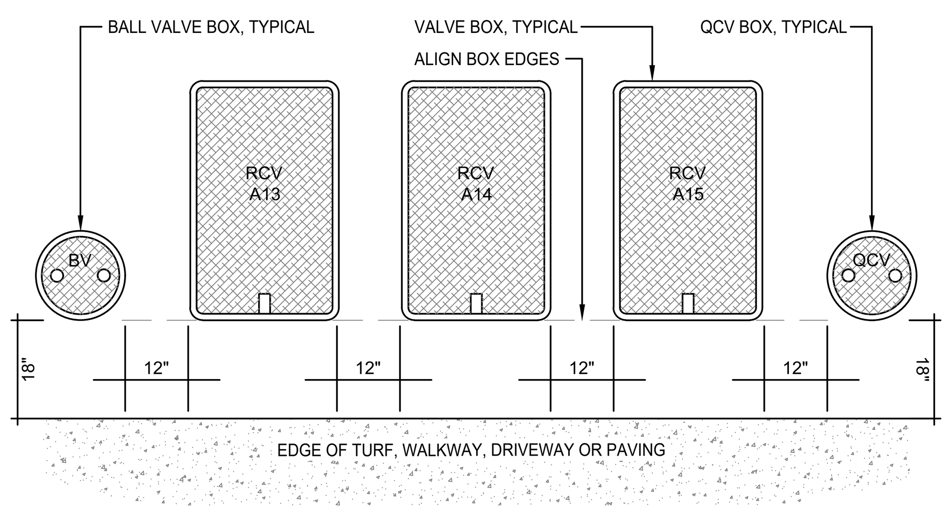


NOTE:
WIRE CONNECTOR SHALL BE A GPH IRRIGATION GDBRY6 DIRECT BURY SPLICE KIT. KIT SHALL INCLUDE A SCOTCHLOK SPRING CONNECTOR, A POLYPROPYLENE TUBE AND A 100% SILICONE WATERPROOF SEALING GEL. TUBE SHALL BE SUPPLIED PRE-FILLED WITH GEL.

SECTION VIEW - N.T.S.

(O) WIRE CONNECTION

NOTE:
1. CENTER VALVE BOX OVER REMOTE CONTROL VALVE OR DRIP ASSEMBLY TO FACILITATE SERVICING OF THE VALVE OR EQUIPMENT.
2. SET RCV AND VALVE BOX ASSEMBLY IN GROUND COVER OR SHRUB AREAS WHERE EVER POSSIBLE, VALVES IN TURF AREAS TO BE APPROVED BY LANDSCAPE ARCHITECT.
3. SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO ADJACENT PAVING EDGE.
4. AVOID HEAVILY COMPACTING SOIL AROUND VALVE BOXES TO PREVENT THE COLLAPSE AND / OR DEFORMATION OF VALVE BOXES.
5. BOX LOCATIONS SHALL BE STAKED IN THE FIELD PRIOR TO MAINLINE INSTALLATION FOR REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT.



NOTE:
VALVE BOXES SHALL BE INSTALLED IN SHRUB AND GROUND COVER AREAS. NO VALVES SHALL BE INSTALLED IN TURF AREAS WITHOUT PRIOR APPROVAL BY THE LANDSCAPE ARCHITECT.

PLAN VIEW - N.T.S.

(P) VALVE BOX LAYOUT

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COMPTON, CA 90221

owner

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IRRIGATION DETAILS

drawing no.:
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FINE GRADING NOTES

1. FINE GRADING SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT IN THE FIELD PRIOR TO IRRIGATION INSTALLATION, SOIL PREPARATION AND PLANTING. ALL PLANTING AREAS SHALL BE GRADES TO THE ELEVATIONS INDICATED ON THE CIVIL ENGINEER'S PLANS.
2. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 2% DRAINAGE AWAY FROM ALL BUILDINGS, STRUCTURES, AND WALLS. FINISHED GRADES SHALL BE SMOOTHED TO ELIMINATE PUDDLING OR STANDING WATER.
3. EXCESS SOIL FROM LANDSCAPE GRADING TO BE REMOVED AND DISPOSED OF OFF-SITE BY CONTRACTOR.
4. REFER TO CIVIL ENGINEER'S DRAWINGS FOR GRADING AND DRAINAGE INFORMATION AND OTHER RELATED NON-LANDSCAPE WORK. VERIFY ON-SITE AND REPORT DISCREPANCIES TO LANDSCAPE ARCHITECT BEFORE START OF ANY WORK ON THIS CONTRACT.
5. COMPACTED SOIL IN ALL PLANTING AREAS SHALL BE RIPPED TO A DEPTH OF EIGHTEEN (18) INCHES PRIOR TO SOIL AMENDMENT WORK.

PLANTING NOTES:

1. THE PLANTING PLAN IS DIAGRAMMATIC. ALL PLANT LOCATIONS ARE APPROXIMATE. ON CENTER SPACING AND SYMBOLS TAKE PRECEDENCE OVER PLANT QUANTITIES SPECIFIED. QUANTITIES, IF SHOWN ON THE PLANTING PLAN ARE APPROXIMATE AND ARE FOR REFERENCE ONLY. CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OF DISCREPANCIES BETWEEN QUANTITIES AND THE SYMBOLS SHOWN. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL PLANT COUNTS AND SQUARE FOOTAGES.
2. TREE LOCATION MAY BE ADJUSTED TO AVOID CONFLICTS WITH UNDERGROUND UTILITIES. CONSULT WITH LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE PRIOR TO ADJUSTMENT OF TREE LOCATIONS, ESPECIALLY THOSE ARRANGED ON A SPECIFIED MODULE OR IN A GRID PATTERN.
3. CONTRACTOR SHALL ACCOMPANY THE PROJECT AGRONOMIST TO THE SITE FOR THE PURPOSE OF TAKING SOIL SAMPLES, CONDUCTING PERCOLATION TESTS, AND REVIEWING EXISTING SITE CONDITIONS. THE QUANTITY OF SAMPLES ARE NOTED IN THE SPECIFICATIONS. SUBMIT SOIL TEST RESULTS AND RECOMMENDATIONS TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO SOIL PREPARATION. THIS REQUIREMENT APPLIES TO ALL SOILS AND CONDITIONS WITHIN THIS PROJECT. REFER TO SPECIFICATIONS FOR FURTHER REQUIREMENTS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT, LANDSCAPE ARCHITECT, OR THE ENGINEER, PRIOR TO THE START OF CONSTRUCTION. SO THAT A CLARIFICATION CAN BE ISSUED.
5. CONTRACTOR SHALL GIVE NOTICE OF PLANTING (3) BUSINESS DAYS PRIOR TO INSTALLATION. CONTRACTOR SHALL LAY OUT PLANT MATERIAL PRIOR TO INSTALLATION FOR LANDSCAPE ARCHITECT'S REVIEW AND APPROVAL.
   a. CENTERPOINTS OF TREES SHOULD BE STAKED WITH GRADE LATH STAKES. CONTAINER SIZE AND PLANT NAME SHALL BE NOTED ON EACH STAKE.
   b. SHRUBS SHALL BE PLACED IN THEIR "FINAL" LOCATIONS.
   c. LANDSCAPE ARCHITECT HAS THE RIGHT TO ADJUST PLANT LOCATIONS AND SPACING UPON REVIEWING IN THE FIELD.
   d. ALL PLANTED AREAS TO BE WEED FREE PRIOR TO PLANTING.
6. IF CONFLICTS ARISE BETWEEN ACTUAL SIZE OF PLANTING AREAS ON-SITE AND THOSE AREAS INDICATED ON DRAWINGS, CONTACT OWNER'S AUTHORIZED REPRESENTATIVE FOR RESOLUTION. FAILURE TO MAKE SUCH CONFLICTS KNOW TO OWNER'S AUTHORIZED REPRESENTATIVE IN A TIMELY FASHION MAY RESULT IN CONTRACTOR'S OWN LIABILITY TO RELOCATE PLANT MATERIALS.
7. REFER TO PLANTING DETAILS FOR ALL INSTALLATION AND STAKING REQUIREMENTS.
8. ALL TREES LOCATED WITHIN 3' OF PAVEMENT OR STRUCTURES ARE TO HAVE ROOT CONTROL BARRIERS INSTALLED AT TIME OF PLANTING. UNLESS OTHERWISE SPECIFIED, A 12' LONG X 18" DEEP LINEAR BARRIER SHALL BE INSTALLED AT EDGE OF PAVEMENT/STRUCTURE, WITH LENGTH CENTERED AT THE TREE TRUNK.
9. NURSERY STAKES ARE TO BE REMOVED AFTER PLANTING TREES AND STAKING OR GUYING AS SHOWN ON PLANS AND AS DIRECTED BY LANDSCAPE ARCHITECT.
10. TREES PLANTED IN TURF AREAS ARE TO HAVE TRUNKS PROTECTED WITH PERFORATED POLYETHYLENE TREE TRUNK PROTECTORS (ARBOR-GARD+ OR EQUAL).
11. CONTRACTOR IS RESPONSIBLE FOR PRUNING TREES AS DIRECTED BY LANDSCAPE ARCHITECT. NO PRUNING IS TO BE DONE UNLESS DIRECTED.
12. TRIANGULAR SPACE GROUNDCOVERS AND SHRUBS, UNLESS OTHERWISE INDICATED ON DRAWINGS.
13. SEE DETAIL FOR PLACEMENT OF SHRUBS IN IRREGULARLY SHAPED PLANTING AREAS.
14. MULCH ALL AREAS (EXCEPT TURF, SLOPES 2:1 AND GREATER, AND AS NOTED ON PLANS) WITH 3" LAYER OF SPECIFIED MATERIAL. AREAS PLANTED WITH FLATTED MATERIAL ARE TO HAVE A 2" LAYER OF MULCH.
15. ALL SLOPES 2:1 OR GREATER ARE TO BE STABILIZED WITH JUTE MESH PRIOR TO PLANTING. DO NOT INSTALL JUTE MESH ON SEEDED SLOPES. SEE SPECIFICATIONS.
16. WHERE GROUNDCOVER IS SHOWN ON PLANS: GROUNDCOVER PLANTING CONTINUES UNDER SHRUBS AND TREES AT SPECIFIED SPACING. DO NOT PLANT GROUNDCOVER IN SHRUB/TREE WATERING BASINS.
17. CONTRACTOR SHALL MAINTAIN ALL PLANTING FOR A PERIOD OF NINETY (90) DAYS AFTER COMPLETION AND ACCEPTANCE BY LANDSCAPE ARCHITECT, UNLESS OTHERWISE NOTED IN SPECIFICATIONS. ALL AREAS SHOULD BE KEPT CLEAN, WATERED AND WEED-FREE.
18. PRIOR TO END OF MAINTENANCE PERIOD, LANDSCAPE CONTRACTOR SHALL CONTACT OWNER AND ARRANGE A FINAL WALKTHROUGH INSPECTION BY LANDSCAPE ARCHITECT. OWNER MUST ACCEPT ALL MAINTAINED AREAS IN WRITING PRIOR TO END OF MAINTENANCE PERIOD. OWNER SHALL BE RESPONSIBLE FOR FUTURE MAINTENANCE AFTER THE MAINTENANCE PERIOD AND FINAL WALK THROUGH.

TREE LEGEND:

SYMBOL	BOTANICAL NAME "COMMON NAME"	SIZE (HTxSPR)	WUCOLS	COMMENTS	DETAIL
	BRACHYCHITON POPULNEUS "KURRAJONG"	36" BOX 12'X5'	L	STANDARD	1/L3.51
	LYONOTHAMNUS FLORIBUNDU SPP. ASPLENIFOLIUS "SANTA CRUZ ISLAND IRONWOOD"	36" BOX 10'X4'	L	STANDARD	1/L3.51
	TIPUANA TIPU "TIPU TREE"	36" BOX 12'X6'	M	STANDARD	1/L3.51
	ULMUS PARVIFOLIA 'DRAKE' CHINESE ELM DRAKE	48" BOX 14'X7'	M	STANDARD	1/L3.51

SHRUB & GROUNDCOVER LEGEND:

SYMBOL	BOTANICAL NAME "COMMON NAME"	SIZE (HTxSPR)	WUCOLS	COMMENTS	DETAIL
	ANIGOZANTHOS 'BIG RED' "BIG RED KANGAROO PAW"	5 GAL. 60"X24"	M	30" O.C.	3/L3.51
	CALLISTEMON 'LITTLE JOHN' "LITTLE JOHN DWARF BOTTLEBRUSH"	1 GAL. 36"X36"	L	30" O.C.	3/L3.51
	DIETES X 'NOLA ALBA' KATRINA® AFRICAN IRIS	5 GAL. 48"X24"	L	30" O.C.	3/L3.51
	DODONAEA VISCOSA "PURPUREA"	7 GAL. 36"X12"	L	30" O.C.	3/L3.51
	HESPERALOE PARVIFLORA 'BREAKLIGHTS' "RED YUCCA"	5 GAL. 36"X48"	L	30" O.C.	3/L3.51
	LIGUSTRUM LUCIDUM "GLOSSY PRIVET"	15 GAL. 36"X24"	M	30" O.C.	3/L3.51
	MYRTUS COMMUNIS 'COMPACTA' "DWARF MYRTLE"	5 GAL. 36"X36"	L	18" O.C.	3/L3.51
	KURAPIA GROUND COVER	SOD	L	AVAILABLE AT WEST COAST TURF 888-893-88873	4/L3.51
	TURF TIFWAY II	SOD	M	-	-

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-119686 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/14/2019

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COMPTON, CA 90221
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LANDSCAPE PLANTING
LEGEND & NOTES

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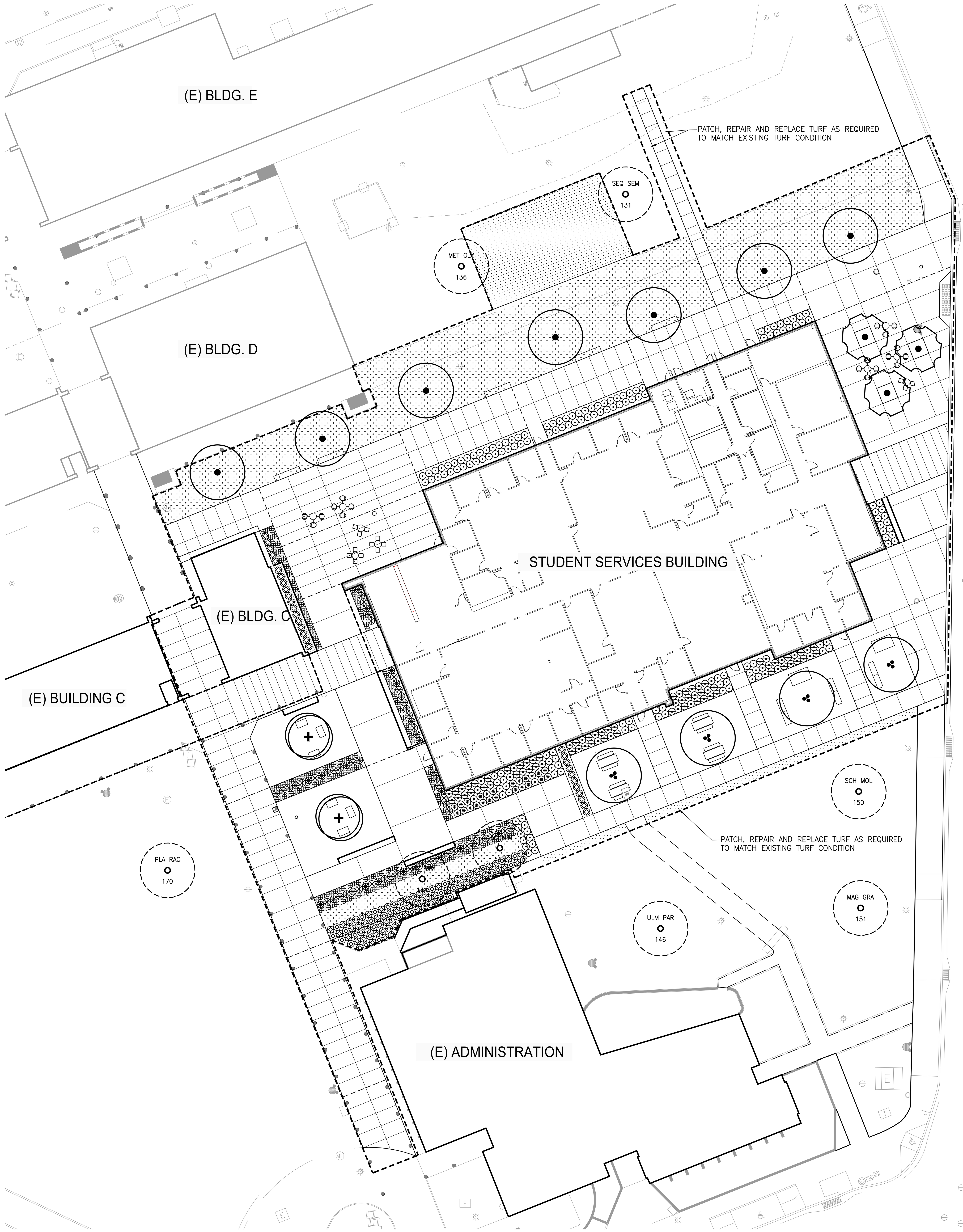
L3.00



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SHRUB & GROUNDCOVER LEGEND:

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	DODONAEA VISCOSA "PURPUREA"
	HESPERALOE PARVIFLORA 'BREAKLIGHTS' "RED YUCCA"
	LIGUSTRUM LUCIDUM "GLOSSY PRIVET"
	MYRTUS COMMUNIS 'COMPACTA' "DWARF MYRTLE"
	KURAPIA GROUND COVER
	TURF TIFWAY II

NOTE: SEE SHEET L3.00 FOR FULL PLANTING LEGENDS.

SCALE: 1/16" = 1'-0"
0 8' 16' 32' 64'

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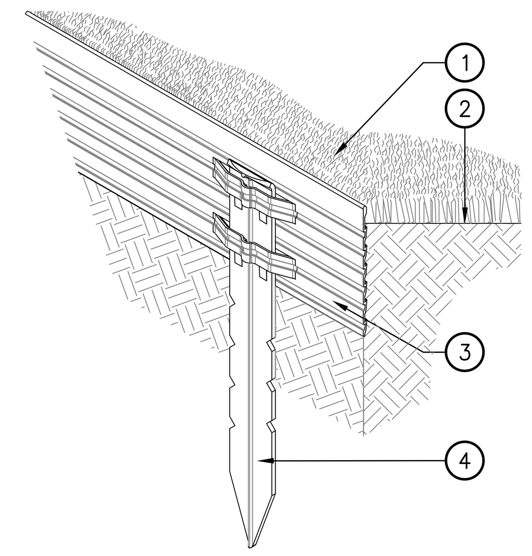


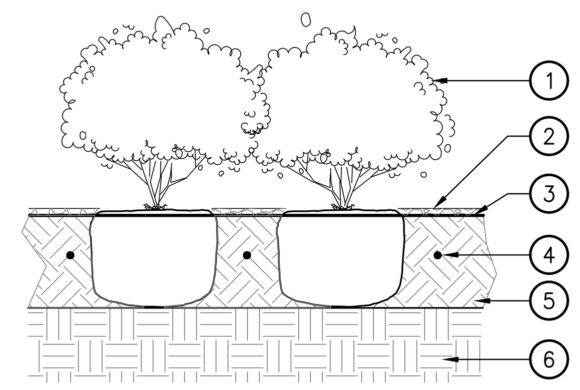
LEGEND

1. PLANTING AREA
2. FINISH GRADE.
3. MTL. EDGING. SEE SPEC FOR THICKNESS AND DIMS.
4. ALUM. STAKE. SECURE STAKE 1/2" BELOW TOP OF EDGING.

NOTES

A. SECURE STAKE INSIDE GRAVEL, GROUND COVER, OR D.G.
B. EDGING TO BE NO MORE THAN 1/2" ABOVE F.G.
C. COMPACT GRADE ADJ. TO EDGING TO PREVENT SETTLING.

7 METAL EDGING
SCALE: N.T.S. 32 90 00 Metal Edging.dwg



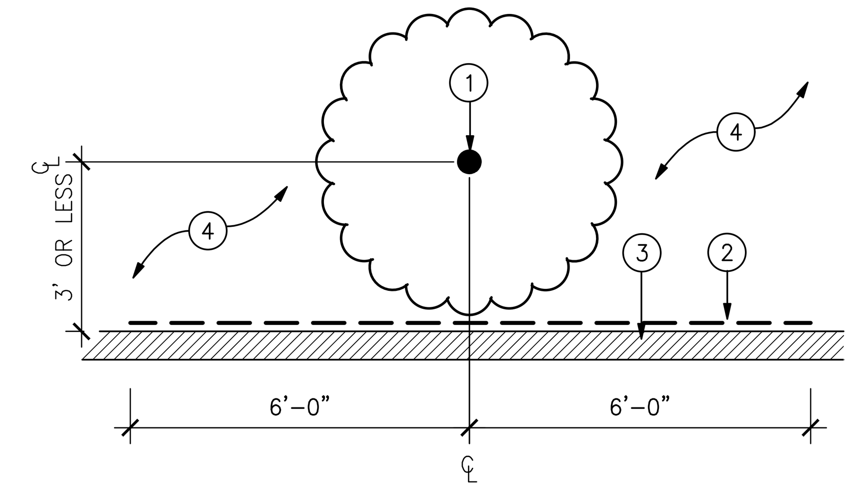
NOTE

1. CONTAINER GROWN SHRUBS – LOOSEN ROOTS AT EDGE OF ROOTBALL.
2. WHERE SHRUBS AND GROUNDCOVER ARE PLANTED IN BEDS, EXCAVATE AND PREPARE ENTIRE BED.
3. REMOVE ALL ROCKS 2" DIA. OR GREATER FROM BACKFILL MIX & DISPOSE OF OUTSIDE OF PLANTED AREAS

LEGEND

1. GROUNDCOVER OR SHRUB, SEE PLAN FOR TYPE AND SPACING. SET TOP OF BALL 1/2"-1" ABOVE FG.
2. MULCH, DO NOT COVER TOP OF ROOTBALL.
3. FINISH GRADE.
4. DRIP TUBING, 4" BELOW FG, SEE IRRIGATION PLANS.
5. PREPARE ENTIRE PLANTING AREA SOIL DEPTH REFER TO SPECIFICATIONS.
6. EXISTING SOIL.

4 GROUNDCOVER PLANTING
SCALE: N.T.S. Groundcover Planting.dwg



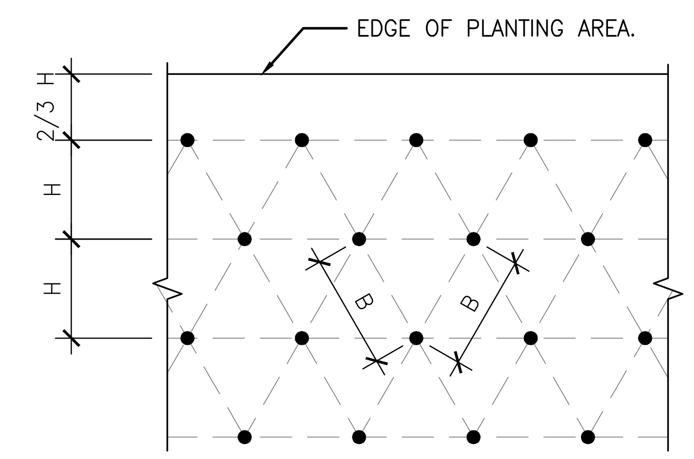
LEGEND

1. TREE TRUNK.
2. 12 LF OF 24"-DEEP ROOT CONTROL BARRIER: DEEPROOT UB-24 OR EQUIVALENT. CENTER BARRIER ON TRUNK OF TREE. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
3. HARDSCAPE ELEMENT: CURB, SIDEWALK, WALL, ETC.
4. PLANTING AREA.

NOTES:

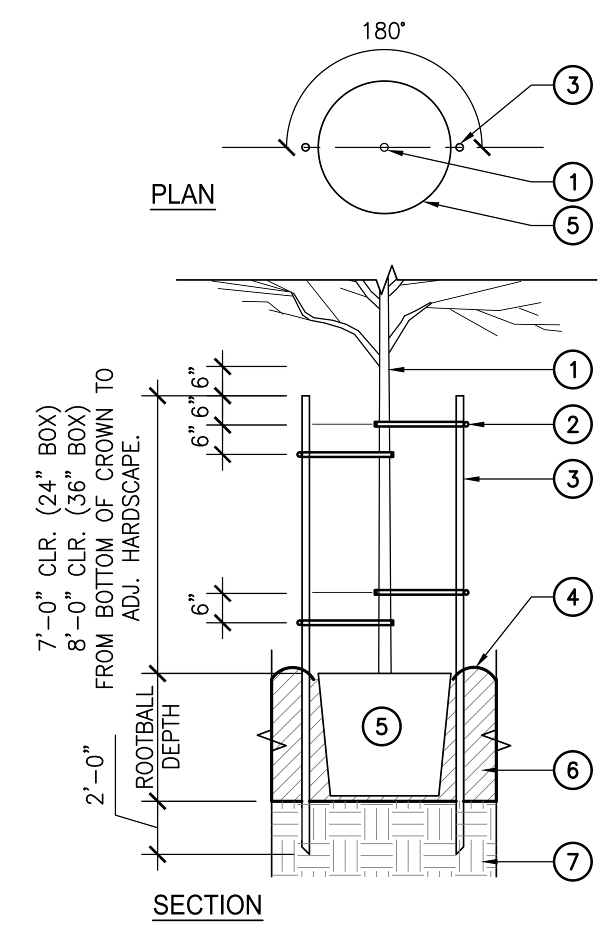
SEE MANUFACTURER'S RECOMMENDED DETAIL 12/L3.51 FOR TREES ADJACENT TO UTILITY LINES.

1 ROOT CONTROL BARRIER
SCALE: NTS 32 90 00 ROOT BARRIER.dwg



TRIANGULAR SPACING = B	DISTANCE BETWEEN ROWS = H	TOTAL AREA (SF) PER PLANT
6"	5"	0.21
8"	7"	0.39
9"	8"	0.50
10"	8 1/2"	0.59
12"	10 1/2"	0.88
15"	13"	1.35
18"	15 1/2"	1.94
21"	18"	2.63
24" (2')	21"	3.50
30"	26"	5.42
12"	31"	7.75
15"	41 1/2"	13.83
18"	62 1/2"	31.25

5 TRIANGULAR PLANT SPACING DIAGRAM
SCALE: N.T.S.



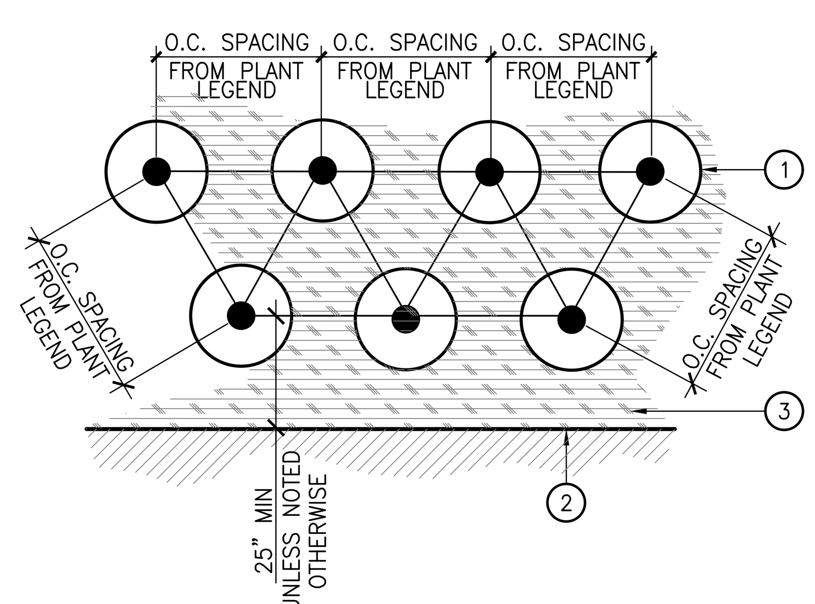
LEGEND

1. TREE TRUNK.
2. COTTON TREE TIES 4 PER TREE.
3. TREE STAKE, INSTALL TIGHT AGAINST ROOTBALL. DO NOT DRIVE STAKE THROUGH ROOTBALL.
4. FINISH GRADE.
5. ROOTBALL.
6. BACKFILL MIX.
7. SUBGRADE SOIL, DRILL 2" DIAMETER PILOT HOLES TO ACCEPT TREE STAKES IF REQUIRED AT HARD SOIL CONDITIONS.

NOTE

1. MULCH OR AGGREGATE PAVING NOT SHOWN ON FINISHED SOIL GRADE FOR CLARITY.
2. PER SPECIFICATIONS, TREE STAKING AND GUYING IS AT CONTRACTOR'S OPTION. CONTRACTOR IS REQUIRED TO KEEP TREE VERTICAL AT ALL TIMES AND TO RIGHT TREE IMMEDIATELY SHOULD IT LEAN WITHIN WARRANTY PERIOD. SHOULD CONTRACTOR CHOOSE TO STAKE TREE, CONSULT WITH LANDSCAPE ARCHITECT PRIOR TO TAKING ACTION TO COORDINATE LOCATION AND SETTING OF GUY WIRES.
3. REMOVE NURSERY STAKE PRIOR TO START OF ESTABLISHMENT PERIOD.

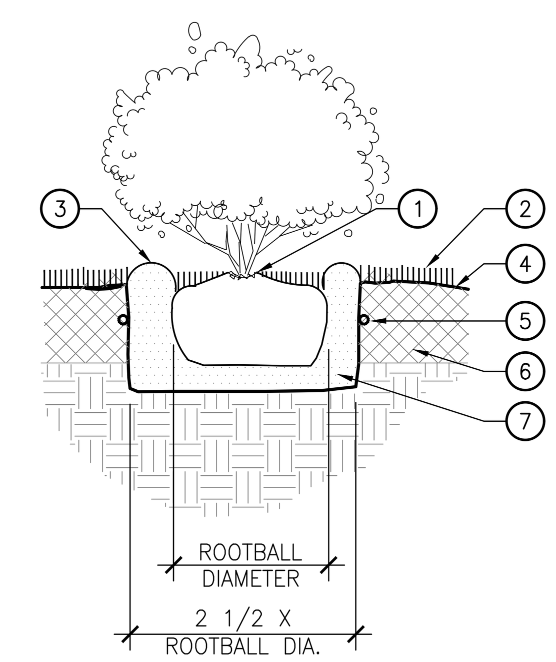
2 TREE PLANTING - DOUBLE STAKE
SCALE: N.T.S. 32 90 00 TREE – DOUBLE STAKE.dwg



LEGEND

1. SHRUB/GROUNDCOVER – TRIANGULATED ROWS.
2. HARDSCAPE ELEMENT: CURB, WALK, ETC.
3. MULCH PER SPECIFICATIONS.

6 SHRUB/GROUNDCOVER SPACING
SCALE: N.T.S. 32 90 00 SHRUB-GC SPACING.dwg



NOTE

1. CONTAINER GROWN SHRUB – LOOSEN ROOTS AT EDGE OF ROOTBALL (EXCEPT BOUGAINVILLEA)
2. RIP SOIL AND PREPARE ENTIRE BED PER SPECIFICATIONS
3. REF. SPECS RE TESTING OF PIT DRAINAGE
4. WIDTH OF PLANTING PIT SHALL NOT BE LESS THAN 1-1/2 TIMES THE WIDTH OF THE ROOTBALL.
5. DEPTH OF PLANTING PIT SHALL NOT BE LESS THAN 1-1/2 TIMES THE DEPTH OF THE ROOTBALL.

LEGEND

1. PLANT SHRUB SO TOP OF THE ROOTBALL IS 1" ABOVE FINISH GRADE.
2. MULCH 2" MIN. DEPTH ENTIRE PLANTING BED REF. SPECS.
3. TEMPORARY WATERING BASIN, FORM SAUCER WITH 3" CONTINUOUS RIM.
4. FINISH GRADE.
5. DRIP IRRIGATION TUBING.
6. CONTINUOUS PREPARED SOIL ZONE REF. SPECS.
7. AMENDED BACK FILL MIXTURE.

3 SHRUB PLANTING
SCALE: N.T.S. SHRUB PLANTING .dwg

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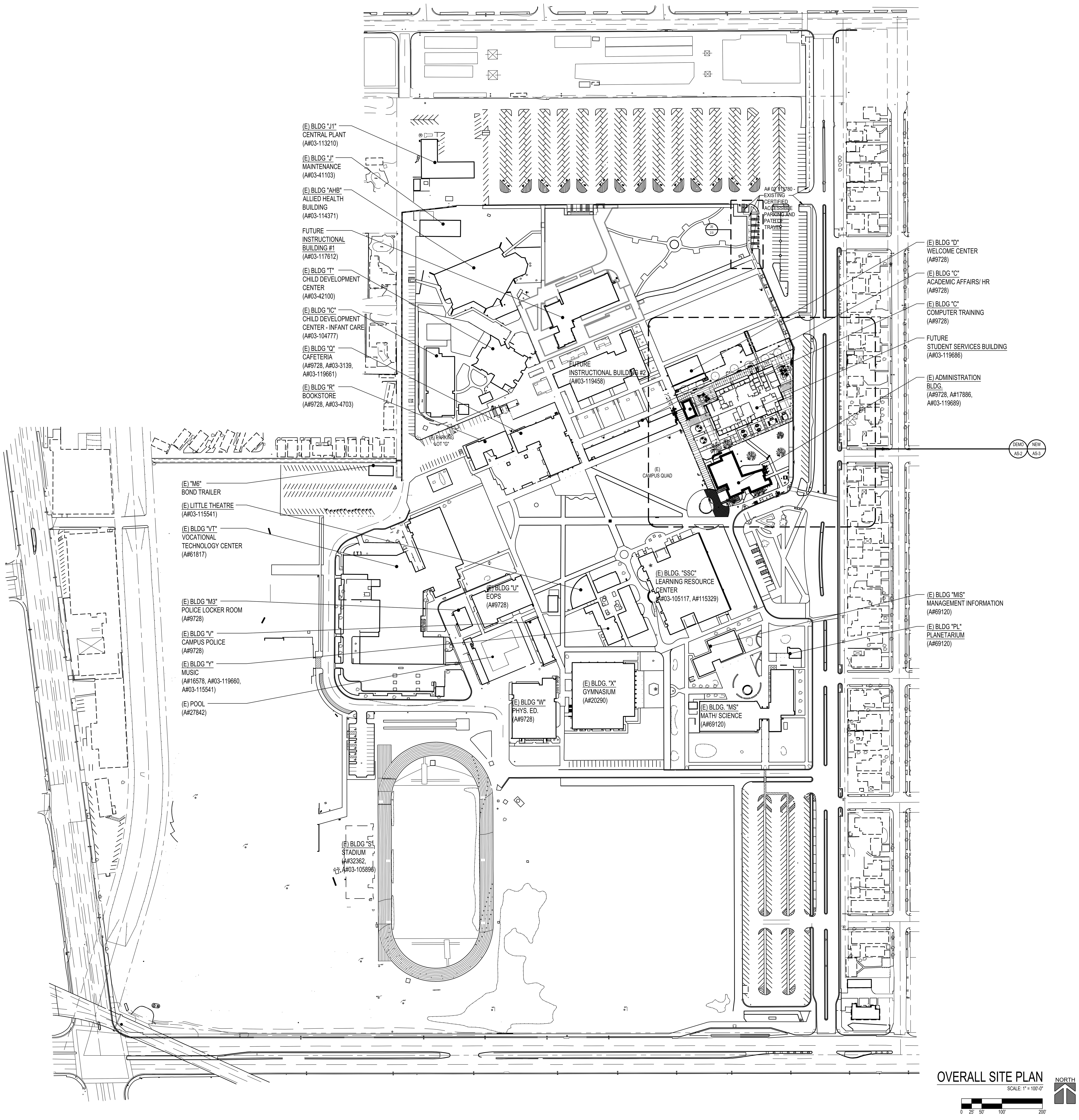

OVERALL SITE PLAN

SCALE: 1" = 100'-0"

0 25 50 100' 200'

NORTH

GENERAL NOTES

1. VERIFY ALL EXISTING & FINISH GRADES, DIMENSIONS & SITE CONDITIONS BEFORE COMMENCING WORK AND REPORT ANY DISCREPANCIES TO THE ARCHITECT.
2. ALL GRADING WORK SHALL CONFORM TO APPLICABLE PROVISIONS OF THE 2016 CALIFORNIA BUILDING CODE, TITLE 24, AND LOCAL CODES OR ORDINANCES. IN THE EVENT OF CONFLICTING PROVISIONS, ALWAYS CONFORM TO THE STRICTER REQUIREMENTS.
3. DETERMINE NECESSARY SUBGRADE ELEVATIONS AND CONSTRUCT SMOOTH TRANSITIONS BETWEEN FINISHED GRADES. FINISHED GRADE ELEVATIONS ADJACENT TO BUILDING PERIMETERS TO BE 6" BELOW FINISHED FLOOR ELEVATIONS, U.N.O.
4. ALL CONCRETE PAVING TO BE MEDIUM BROOM FINISH UNLESS NOTED OTHERWISE.
5. CONTRACTOR TO VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED OR WILL BE REMOVED UNDER THIS PROJECT, AND PATH OF TRAVEL COMPLIES WITH CBC 11B-206.
6. LOCATIONS OF ALL UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING TO AVOID INTERCEPTING EXISTING PIPING OR CONDUITS. THE ARCHITECT IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY OTHER CONTRACTS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
7. COMPLY WITH CALIFORNIA FIRE CODE CHAPTER 33 - FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION.
8. CONTRACTOR OPERATIONS SHALL NOT BLOCK, HINDER, IMPEDE OR OTHERWISE INHIBIT THE USE OF REQUIRED EXITS AT ANY TIME. CONTRACTOR SHALL MAINTAIN UNOBSTRUCTED ACCESS TO FIRE EXTINGUISHERS, FIRE HYDRANTS, TEMPORARY FIRE PROTECTION FACILITIES, STAIRWAYS AND OTHER ACCESS ROUTES FOR FIRE FIGHTING EQUIPMENT AND/OR PERSONNEL.
9. FOR ADDITIONAL SITE SCOPE OF WORK REFER TO
   A. GEOTECHNICAL REPORT
   B. PROJECT MANUAL
   C. CIVIL DRAWINGS C1.1 SITE DEMOLITION, C1.2 GRADING, & C1.5 UTILITIES
   D. LANDSCAPE DRAWINGS L1.11 HARDSCAPE, L2.11 IRRIGATION, AND L3.11 PLANTING
   E. STRUCTURAL OVEREXCAVATION DETAIL ON S0-0.1, AND FOUNDATION PLANS S-2.1 AND S-2.2
   F. PLUMBING SITE PLAN P0-3
   G. FIRE SPRINKLER SITE PLAN FS0-3
   H. MECHANICAL SITE PLAN M0-3
   I. ELECTRICAL SITE DRAWINGS ES-0, ES-1, ES-2, ES-3, AND ES-4

SITE PLAN LEGEND

POST LIGHT

FH FIRE HYDRANT

ACCESSIBLE PATH OF TRAVEL

LIMITS OF WORK

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT: THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR THE PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NONCOMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS. ARCHITECT HAS VERIFIED P.O.T. IS BARRIER FREE.

DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

PATH OF TRAVEL (P.O.T.) AS VERIFIED BY ARCHITECT IS :

- A COMMON BARRIER FREE ACCESSIBLE ROUTE AT LEAST 48" WIDE WITHOUT ANY ABRUPT VERTICAL CHANGED EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL.
- THE PATH SURFACE IS SLIP RESISTANT, STABLE , FIRM AND SMOOTH.
- PASSING SPACES AT LEAST 60"X60" ARE LOCATED NOT MORE THAN 200' APART.
- CONTINUOUS GRADIENTS HAVE 60" LEVEL AREAS NOT MORE THAN 400' APART.
- CROSS-SLOPE DOES NOT EXCEED 2%.
- SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5%, UNLESS OTHERWISE INDICATED AS A RAMP.
- MAINTAIN POT FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM, PROTRUDING OBJECTS GREATER THAN 4". PROJECTION FROM WALL OR EDGE AND 27" ABOVE FINISH GRADE.

ACCESSIBLE PARKING TABULATION

6 STANDARD EXISTING ACCESSIBLE STALLS
2 VAN ACCESSIBLE ACCESSIBLE PARKING STALLS
8 TOTAL ACCESSIBLE PARKING STALLS

ABBREVIATIONS

A.D.	AREA DRAIN
C.B.	CATCH BASIN
C.D.	CONDENSATE DRAIN
C.J.	CONTROL JOINT
C.O.	CLEAN OUT
D.S.	DOWNSPOUT
(E)	EXISTING
E.J.	EXPANSION JOINT
F.D.C.	FIRE DEPARTMENT CONNECTION
F.F.	FINISHED FLOOR ELEVATION
F.G.	FINISHED GRADE
F.H.	FIRE HYDRANT
F.L.	FLOW LINE
G.N.V.	GROUND NOT VISIBLE
I.E.	INVERT ELEVATION
M.H.	MANHOLE
(N)	NEW
U.N.O.	UNLESS NOTED OTHERWISE
P.A.	PLANTER AREA
P.D.	PLANTER DRAIN
R.D.	ROOF DRAIN
S.D.	STORM DRAIN
T.C.	TOP OF CURB
TCN	TOP OF CONCRETE
T.G.	TOP OF GRATE
T.W.	TOP OF WALL
W.G.	WALKWAY GUTTER

IDENTIFICATION STAMP
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APP. 03-119686 INC:
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DATE: 10/14/2019

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tBP project number : 20987.00

file name: 0AS-1_OVERALL SITE PLAN.DWG

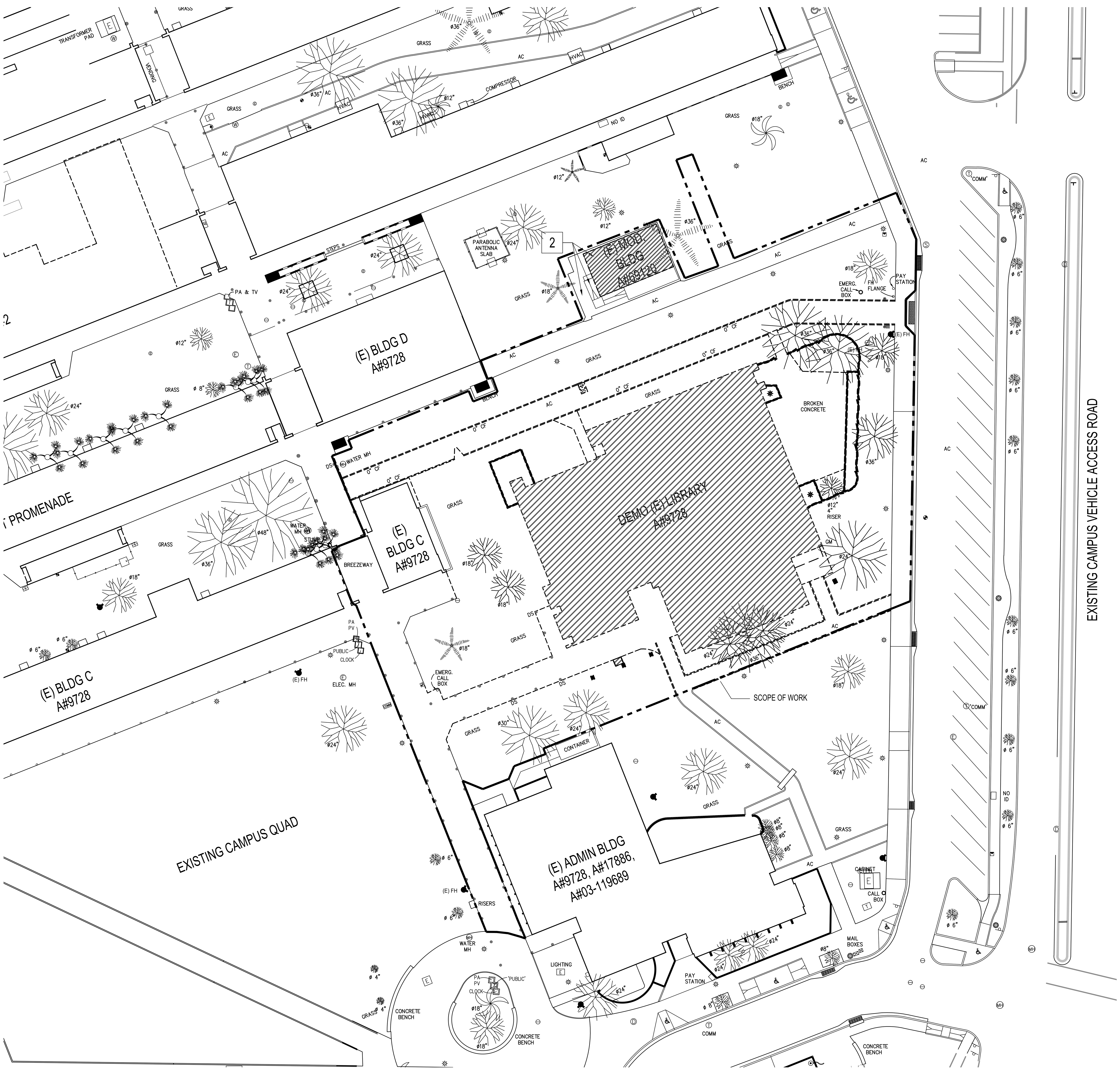
drawn by: tBP checked by: T. HALL

date: 9.3.2019

Rev:	date:	description:

drawing title:
OVERALL SITE PLAN

drawing no.:
AS-1



SITE DEMOLITION PLAN
SCALE: 1" = 20'-0"
NORTH

GENERAL NOTES

1. VERIFY ALL EXISTING & FINISH GRADES, DIMENSIONS & SITE CONDITIONS BEFORE COMMENCING WORK AND REPORT ANY DISCREPANCIES TO THE ARCHITECT.
2. ALL GRADING WORK SHALL CONFORM TO APPLICABLE PROVISIONS OF THE 2016 CALIFORNIA BUILDING CODE, TITLE 24, AND LOCAL CODES OR ORDINANCES. IN THE EVENT OF CONFLICTING PROVISIONS, ALWAYS CONFORM TO THE STRICTER REQUIREMENTS.
3. DETERMINE NECESSARY SUBGRADE ELEVATIONS AND CONSTRUCT SMOOTH TRANSITIONS BETWEEN FINISHED GRADES. FINISHED GRADE ELEVATIONS ADJACENT TO BUILDING PERIMETERS TO BE 6" BELOW FINISHED FLOOR ELEVATIONS, U.N.O.
4. ALL CONCRETE PAVING TO BE MEDIUM BROOM FINISH UNLESS NOTED OTHERWISE.
5. CONTRACTOR TO VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED OR WILL BE REMOVED UNDER THIS PROJECT, AND PATH OF TRAVEL COMPLIES WITH CBC 11B-206.
6. LOCATIONS OF ALL UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING TO AVOID INTERCEPTING EXISTING PIPING OR CONDUITS. THE ARCHITECT IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY OTHER CONTRACTS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
7. COMPLY WITH CALIFORNIA FIRE CODE CHAPTER 33 - FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION.
8. CONTRACTOR OPERATIONS SHALL NOT BLOCK, HINDER, IMPEDE OR OTHERWISE INHIBIT THE USE OF REQUIRED EXITS AT ANY TIME. CONTRACTOR SHALL MAINTAIN UNOBSTRUCTED ACCESS TO FIRE EXTINGUISHERS, FIRE HYDRANTS, TEMPORARY FIRE PROTECTION FACILITIES, STAIRWAYS AND OTHER ACCESS ROUTES FOR FIRE FIGHTING EQUIPMENT AND/OR PERSONNEL.
9. FOR ADDITIONAL SITE SCOPE OF WORK REFER TO
   A) GEOTECHNICAL REPORT
   B) PROJECT MANUAL
   C) CIVIL DRAWINGS C1.1 SITE DEMOLITION, C1.2 GRADING, & C1.5 UTILITIES
   D) LANDSCAPE DRAWINGS L1.11 LANDSCAPE CONSTRUCTION PLAN, L2.11 IRRIGATION PLAN, AND L3.11 LANDSCAPE PLANTING PLAN
   E) STRUCTURAL OVEREXCAVATION DETAIL ON S0-0.1, AND FOUNDATION PLANS S-2.1 AND S-2.2
   F) PLUMBING SITE PLAN P0-3
   G) FIRE SPRINKLER SITE PLAN FS0-3
   H) MECHANICAL SITE PLAN M0-3
   I) ELECTRICAL SITE DRAWINGS ES-0, ES-1, ES-2, ES-3, EF-4, AND ET-4
10. CONTRACTOR TO CONFIRM INVERT ELEVATIONS FOR ALL UTILITY CROSSINGS AT OVEREXCAVATION LIMIT OF WORK TO CONFIRM NO CONFLICTS. CONTRACTOR TO REWORK EXISTING UTILITIES DUE TO OVEREXCAVATION AND / OR MAT FOUNDATION CONFLICTS AS REQUIRED.
11. CONTRACTOR TO REMOVE (E) BUILDING B UNDERGROUND UTILITIES WITHIN AREA OF NEW BUILDING MAT FOUNDATION.

KEYNOTES

1. DEMOLISH AND REMOVE (E) PILES UP TO THE LIMITS OF BOTTOM OF OVEREXCAVATION. REFER TO GEOTECHNICAL SUPPLEMENTAL RECOMMENDATIONS DATED APRIL 22, 2019 FOR ADDITIONAL INFORMATION.
2. REMOVE (E) RELOCATABLE(S), RAMP(S), AND ADJACENT HARDSCAPE. COORDINATE WITH DISTRICT AND RELOCATE (E) RELOCATABLE.

SITE PLAN LEGEND - DEMOLITION

DEMO (E) BUILDING STRUCTURE FOR NEW CONSTRUCTION
LIMITS OF WORK
EXISTING (E) FIRE HYDRANT
(E) FRICTION PILES & PILE CAPS TO BE DEMOLISHED

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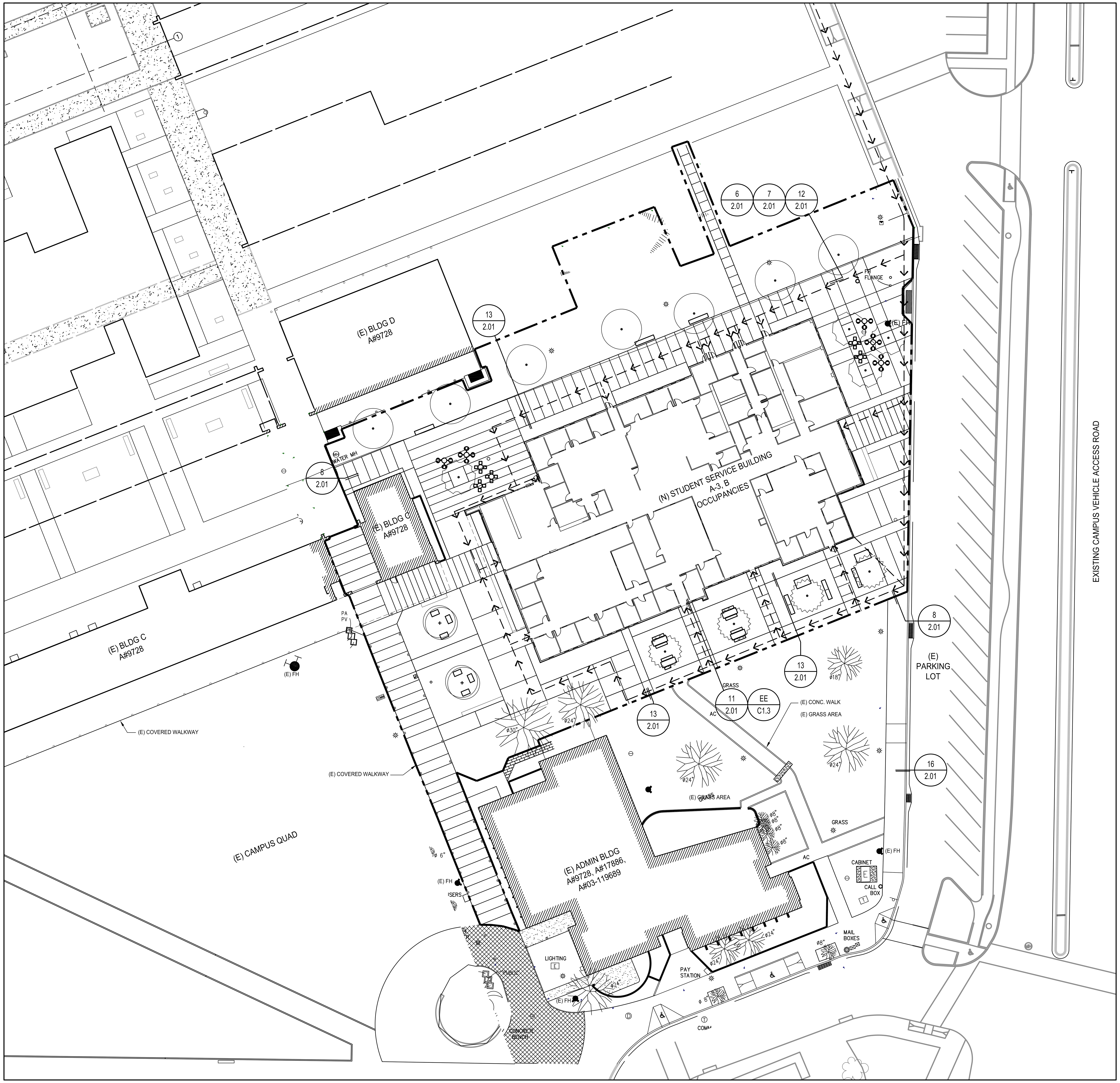
tBP project number : 20987.00
file name: 0AS-2_SITE DEMO PLAN.DWG
drawn by: tBP checked by: T. HALL
date: 9.3.2019

Rev:	date:	description:

drawing title:
ENLARGED SITE PLAN - DEMOLITION

drawing no.:
AS-2



ENLARGED SITE PLAN

SCALE: 1" = 20'-0"

NORTH

0 5 10 20 40

GENERAL NOTES

1. VERIFY ALL EXISTING & FINISH GRADES, DIMENSIONS & SITE CONDITIONS BEFORE COMMENCING WORK AND REPORT ANY DISCREPANCIES TO THE ARCHITECT.
2. ALL GRADING WORK SHALL CONFORM TO APPLICABLE PROVISIONS OF THE CALIFORNIA BUILDING CODE, TITLE 24, AND LOCAL CODES OR ORDINANCES. IN THE EVENT OF CONFLICTING PROVISIONS, ALWAYS CONFORM TO THE STRICTER REQUIREMENTS.
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   F) PLUMBING SITE PLAN P0-3
   G) FIRE SPRINKLER SITE PLAN FS0-3
   H) MECHANICAL SITE PLAN M0-3
   I) ELECTRICAL SITE DRAWINGS ES-0, ES-1, ES-2, ES-3, EF-4, AND ET-4
   J) SITE SECTIONS AS-4

LEGEND

	CONCRETE PAVING CONCRETE PAVING SEE LANDSCAPE PLANS
	LIMITS OF WORK
	POST LIGHT
FH	FIRE HYDRANT
DDC	DOUBLE DETECTOR CHECK VALVE
PIV	POST INDICATOR VALVE
FDC	FIRE DEPARTMENT CONNECTION
← — ←	ACCESSIBLE PATH OF TRAVEL

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT: THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR THE PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NONCOMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS. ARCHITECT HAS VERIFIED P.O.T. IS BARRIER FREE.

DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

PATH OF TRAVEL (P.O.T.) AS VERIFIED BY ARCHITECT IS :

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- MAINTAIN POT FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM, PROTRUDING OBJECTS GREATER THAN 4". PROJECTION FROM WALL OR EDGE AND 27" ABOVE FINISH GRADE

ABBREVIATIONS

A.D.	AREA DRAIN
C.B.	CATCH BASIN
C.D.	CONDENSATE DRAIN
C.J.	CONTROL JOINT
C.O.	CLEAN OUT
D.S.	DOWNSPOUT
(E)	EXISTING
E.J.	EXPANSION JOINT
F.D.C.	FIRE DEPARTMENT CONNECTION
F.F.	FINISHED FLOOR ELEVATION
F.G.	FINISHED GRADE
F.L.	FLOW LINE
G.N.V.	GROUND NOT VISIBLE
I.E.	INVERT ELEVATION
M.H.	MANHOLE
(N)	NEW
U.N.O.	UNLESS NOTED OTHERWISE
P.A.	PLANTER AREA
P.D.	PLANTER DRAIN
R.D.	ROOF DRAIN
S.D.	STORM DRAIN
T.C.	TOP OF CURB
TCN	TOP OF CONCRETE
T.G.	TOP OF GRATE
T.W.	TOP OF WALL
W.G.	WALKWAY GUTTER

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owner

tBP project number : 20987.00

file name: 0AS-3_ENLARGED SITE PLAN.DWG

drawn by: tBP checked by: T. HALL

date: 9.3.2019

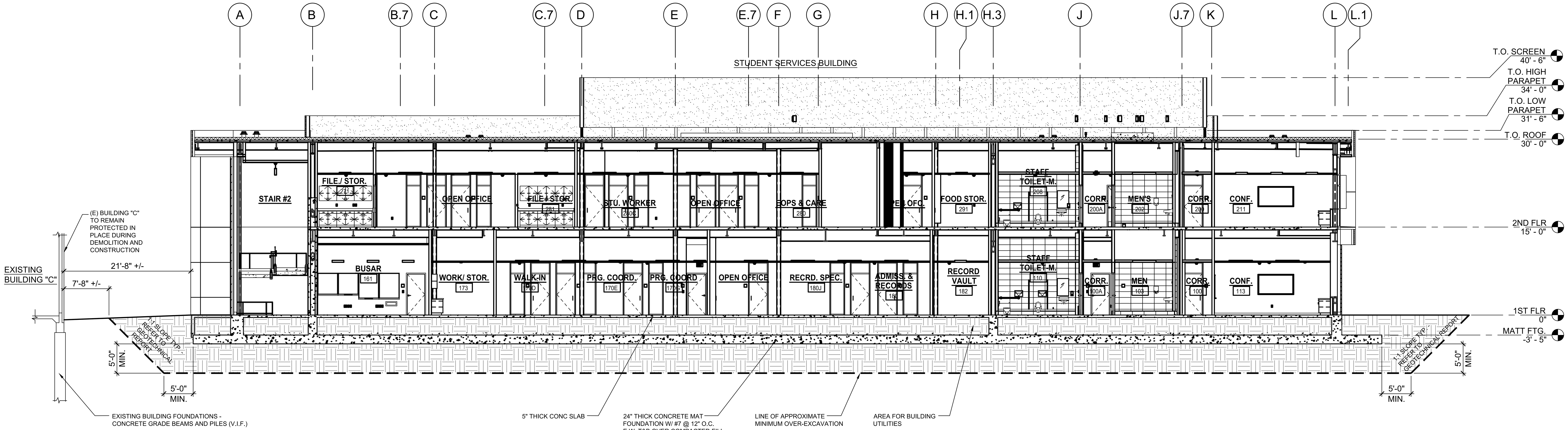
Rev: date: description:

drawing title:

ENLARGED SITE PLAN - CONSTRUCTION

drawing no.:

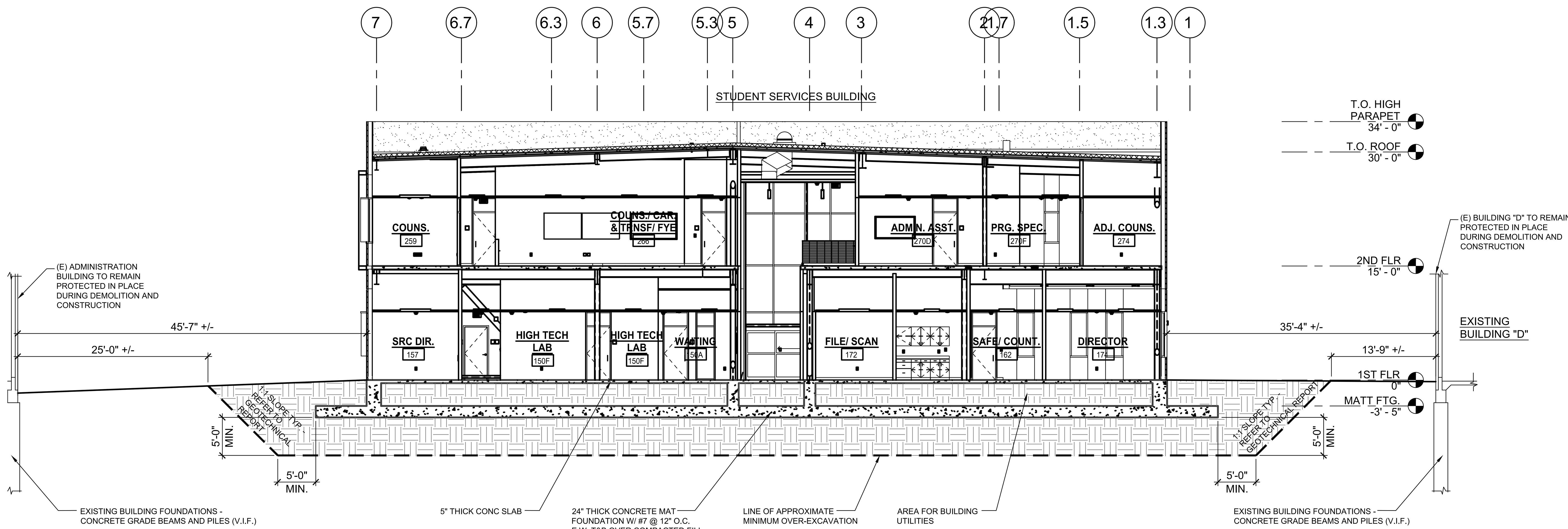
AS-3



SITE & BUILDING SECTION - EAST / WEST 1

SCALE: 1/8" = 1'-0"

0 2' 4' 8' 16'

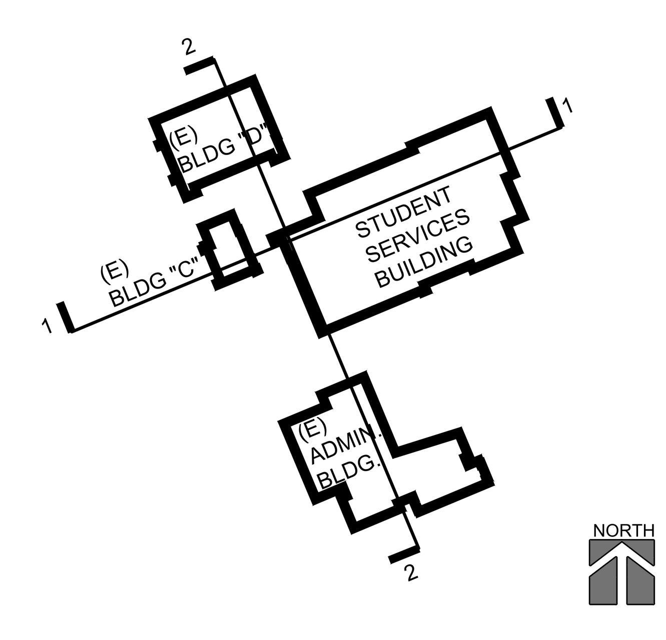


SITE & BUILDING SECTION - NORTH / SOUTH 2

SCALE: 1/8" = 1'-0"

0 2' 4' 8' 16'

KEY PLAN



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tBP project number : 20987.00

file name: 0AS-4_SITE SECTION.DWG

drawn by: tBP checked by: T. HALL

date: 9.3.2019

Rev: date: description:

drawing title:
SITE
SECTIONS

drawing no.:
AS-4

1ST FLOOR CURB/DEPRSSION PLAN 1

SCALE 1/8" = 1'-0"

LEGEND

- 6" HIGH CONCRETE CURB
- 2" DEPRESSED SLB
- 1/2" DEPRESSED SLB
- FLOOR DRAIN

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YUNG L. CHENG
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REN. 4-30-21

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tBP project number: 20987.00

file name: CC_SS_Central.RVT

drawn by: Z. WEN checked by: T. HALL

date: 9.3.2019

rev:	date:	description:

drawing title:
1ST FLOOR
CURB/DEPRESSION PLAN

drawing no.:
A0-1

2ND FLOOR CURB/DEPRESSION PLAN 1
SCALE 1/8" = 1'-0"

LEGEND

6" HIGH CONCRETE CURB

2" DEPRESSED SLB

1/2" DEPRESSED SLB

FD FLOOR DRAIN

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file name: CC_SS_Central.RVT

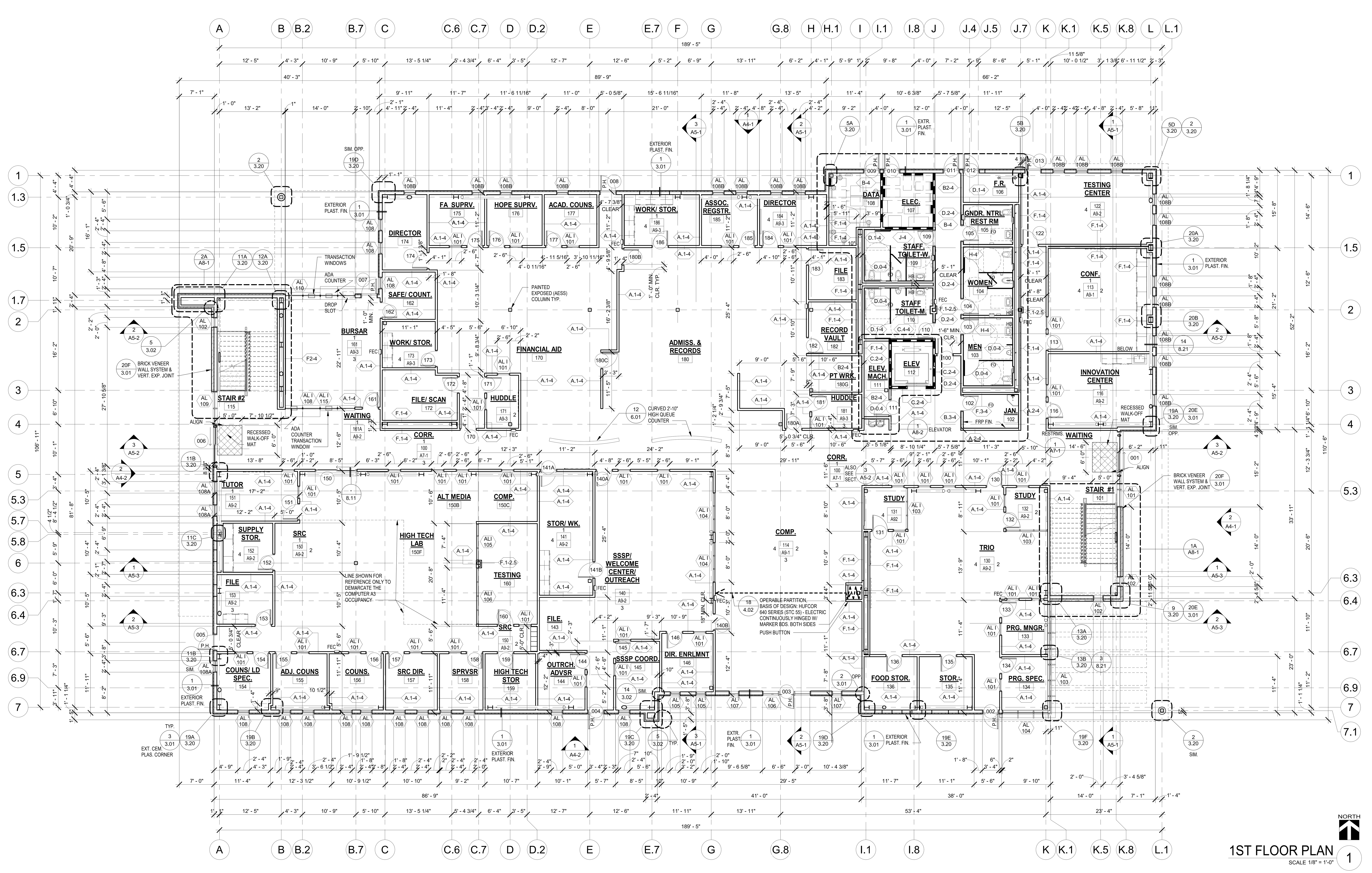
drawn by: Z. WEN checked by: T. HALL

date: 9.3.2019

rev:	date:	description:

drawing title:
2ND FLOOR
CURB/DEPRESSION PLAN

drawing no.:
A0-2



1ST FLOOR PLAN (1)
SCALE 1/8" = 1'-0"

GENERAL NOTES

1. PAINT ALL EXPOSED STEEL COLUMNS, BEAMS AND BRACES - REFER TO COLOR SCHEDULE, SHEET 9.02

LEGEND

NOTE: REFER TO SHEET T-2 FOR ADDITIONAL SYMBOLS

Room name 101 — RM. NO. — ROOM SYMBOL

Room name — RM. NO. — ELEVATION NO. — ELEVATION SHEET NO. — ROOM SYMBOL WITH INTERIOR ELEVATION DESIGNATIOND

A-4 — WALL TYPE, SEE SHEET 4.01

AL 101 — WINDOW TYPE, SEE SHEET 8.51 FOR INTERIOR, SEE SHEETS 8.52 AND 8.53 FOR EXTERIOR

000 — DOOR TYPE, SEE SHEET 8.01 DOOR SCHEDULE

HB — WALL-MOUNT HOSE BIBB, SEE PLUMBING DWGS.

FEC — SEMI-RECESSED FIRE EXTINGUISHER CABINET 12/4.02

P.H. — PANIC HARDWARE, SEE SHEET 8.01 DOOR SCHEDULE

1 HR RATED WALL, SEE SHEET 9/4.01

1 HR SHAFT WALL, SEE SHEET 8/4.01

CEMENT PLASTER WALL SYSTEM 1/3.01

METAL PANEL WALL SYSTEM 1/3.02

BRICK VENEER WALL SYSTEM 20F/3.01

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1ST FLOOR PLAN

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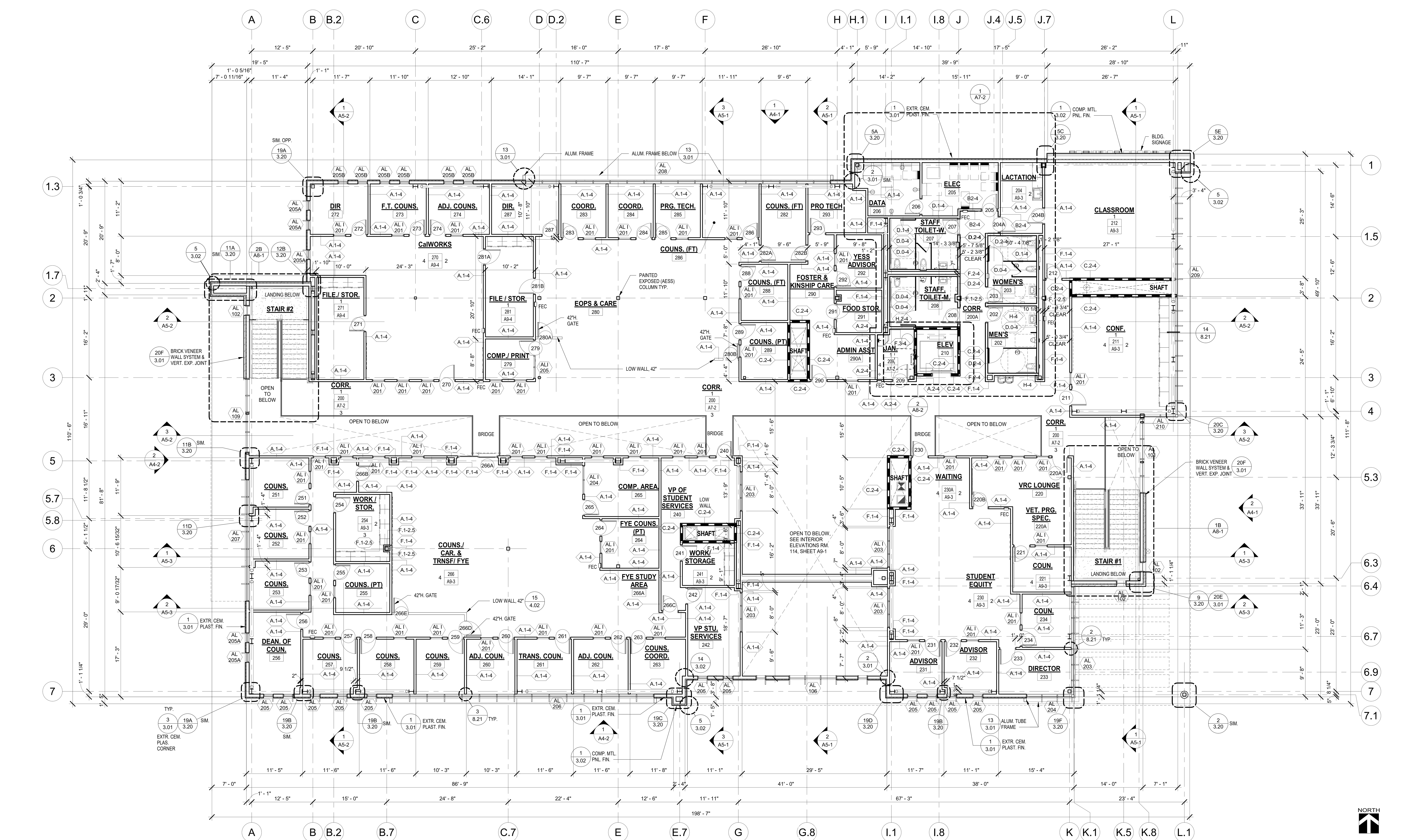
A1-1



2ND FLOOR PLAN 1

SCALE 1/8" = 1'-0"

0' 2' 4' 8' 16'

GENERAL NOTES

1. PAINT ALL EXPOSED STEEL COLUMNS, BEAMS AND BRACES - REFER TO COLOR SCHEDULE, SHEET 9.02

LEGEND

NOTE: REFER TO SHEET T-2 FOR ADDITIONAL SYMBOLS

Symbol	Key	Description
Room name 101	RM. NO.	ROOM SYMBOL
Room name 1 / 101 / A10-X / 2 / 3 / 4	RM. NO. / ELEVATION NO. / ELEVATION SHEET NO.	ROOM SYMBOL WITH INTERIOR ELEVATION DESIGNATIOND
A-4		WALL TYPE, SEE SHEET 4.01
AL 101		WINDOW TYPE, SEE SHEET 8.51 FOR INTERIOR, SEE SHEETS 8.52 AND 8.53 FOR EXTERIOR
000		DOOR TYPE, SEE SHEET 8.01 DOOR SCHEDULE
HB		WALL-MOUNT HOSE BIBB, SEE PLUMBING DWGS.
FEC		SEMI-RECESSED FIRE EXTINGUISHER CABINET 12/4.02
P.H.		PANIC HARDWARE, SEE SHEET 8.01 DOOR SCHEDULE
		1 HR RATED WALL, SEE SHEET 9/4.01
		1 HR SHAFT WALL, SEE SHEET 8/4.01
		CEMENT PLASTER WALL SYSTEM 1/3.01
		METAL PANEL WALL SYSTEM 1/3.02
		BRICK VENEER WALL SYSTEM 20F/3.01

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tBP project number: 20987.00

file name: CC_SS_Central.RVT

drawn by: Z. WEN checked by: T. HALL

date: 9.3.2019

rev:	date:	description:

drawing title:
2ND FLOOR PLAN

drawing no.:
A1-2

1ST FLOOR RCP 1
SCALE 1/8" = 1'-0"
NORTH
0' 2' 4' 8' 16'

GENERAL NOTES

1. REFER TO SUSPENDED ACOUSTICAL CEILING PANEL NOTES AND TYPICAL DETAILS ON SHEET 5.01.
2. REFER TO SUSPENDED GYPSUM BOARD CEILING NOTES AND FRAMED CEILING TYPICAL DETAILS ON SHEET 5.02
3. REFER TO TYPICAL EXTERIOR CEILING DETAILS ON SHEET 5.03

LEGEND

12'-0" — CEILING HEIGHT ABOVE FINISH FLOOR SYMBOL

2x4 SUSP. ACOUST PANEL CLG. (1 / 5.01)

PREFORMED MTL. PANEL CEILING (12 / 5.03)

SUSPENDED GYPSUM BOARD CEILING OR FRAMED GYPSUM BOARD SOFFIT (7 / 5.02) (12 / 5.02) (13 / 5.02)

U.O.S. — EXPOSED UNDERSIDE OF STRUCTURE

ROLLER SHADE NOTATIONS / ABBREVIATIONS:
- MR MOTORIZED SOLAR SHADE
- MS MANUAL SOLAR SHADE
- CS DUAL ROLLER SHADES W/ SOLAR & BLACKOUT SHADE COMBO

FIRE SPRINKLER HEAD, SEE FIRE SPRINKLER PLANS (FS SHEETS)

AIR SUPPLY DIFFUSER

AIR RETURN DIFFUSER

AIR EXHAUST DIFFUSER

A.P. — ACCESS PANEL @ HARD LID CLG., VERIFY LOCATIONS W/ MECHANICAL, PLUMBING & ELECTRICAL DWGS. (19 / 5.02)

EXIT SIGN (CEILING MOUNT), SEE ELECTRICAL LIGHTING PLANS
EXIT SIGN (WALL MOUNT), SEE ELECTRICAL LIGHTING PLANS

T.S. — TUBULAR SKYLIGHT TERMINATION @ GYP. BD. CLG. (20 / 7.02)

CEILING RECESSED LIGHT FIXTURE, SEE ELECTRICAL LIGHTING PLANS

PENDANT LIGHTS PER ELECTRICAL PLANS

RECESSED EXTERIOR CEILING LIGHT FIXTURE, SEE ELECTRICAL LIGHTING PLANS

CAM — SECURITY CAMERA, SEE ELECTRICAL PLANS

ROLLER SHADE ABBREVIATIONS
- DS DUAL ROLLER SHADES WITH SOLAR AND BLACKOUT SHADE COMBINATION
- SS SOLAR SHADES
- MD MOTORIZED DUAL ROLLER SHADES WITH SOLAR AND BLACKOUT SHADE COMBINATION

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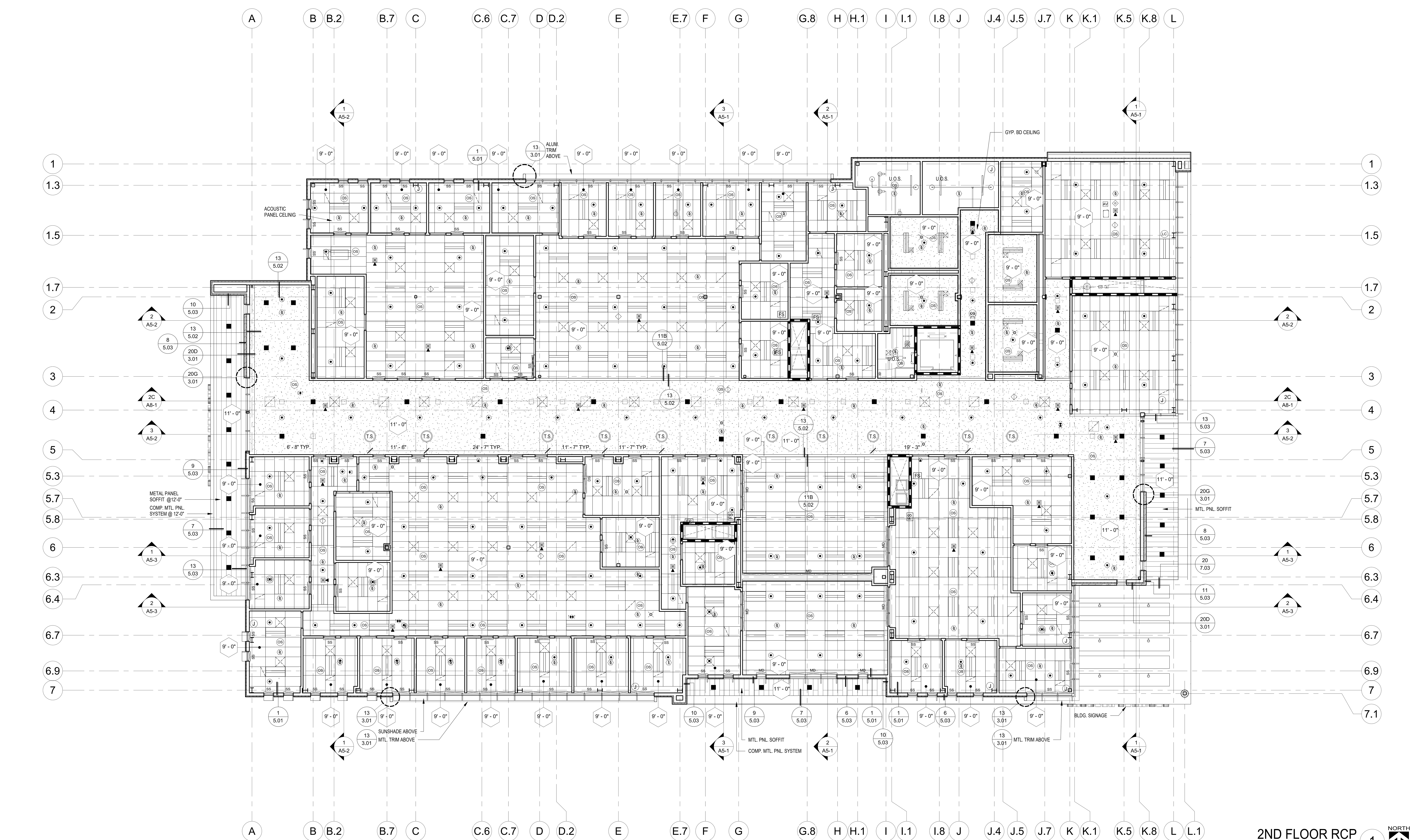
date: 9.3.2019

rev:	date:	description:

drawing title:
REFLECTED CEILING PLAN - 1ST FLOOR

drawing no.:
A2-1



2ND FLOOR RCP 1
SCALE 1/8" = 1'-0"
0' 2' 4' 8' 16'

GENERAL NOTES

1. REFER TO SUSPENDED ACOUSTICAL CEILING PANEL NOTES AND TYPICAL DETAILS ON SHEET 5.01.
2. REFER TO SUSPENDED GYPSUM BOARD CEILING NOTES AND FRAMED CEILING TYPICAL DETAILS ON SHEET 5.02
3. REFER TO TYPICAL EXTERIOR CEILING DETAILS ON SHEET 5.03

LEGEND

Symbol	Description	Detail
12'-0"	CEILING HEIGHT ABOVE FINISH FLOOR SYMBOL	
	2x4 SUSP. ACOUST PANEL CLG.	1/5.01
	PREFORMED MTL. PANEL CEILING	12/5.03
	SUSPENDED GYPSUM BOARD CEILING OR FRAMED GYPSUM BOARD SOFFIT	7/5.02, 12/5.02, 13/5.02
U.O.S.	EXPOSED UNDERSIDE OF STRUCTURE	
	FIRE SPRINKLER HEAD, SEE FIRE SPRINKLER PLANS (FS SHEETS)	
	AIR SUPPLY DIFFUSER	
	AIR RETURN DIFFUSER	
	AIR EXHAUST DIFFUSER	
A.P.	ACCESS PANEL @ HARD LID CLG., VERIFY LOCATIONS W/ MECHANICAL, PLUMBING & ELECTRICAL DWGS.	19/5.02
	EXIT SIGN (CEILING MOUNT), SEE ELECTRICAL LIGHTING PLANS	
	EXIT SIGN (WALL MOUNT), SEE ELECTRICAL LIGHTING PLANS	
T.S.	TUBULAR SKYLIGHT TERMINATION @ GYP. BD. CLG.	20/7.02
	CEILING RECESSED LIGHT FIXTURE, SEE ELECTRICAL LIGHTING PLANS	
	PENDANT LIGHTS PER ELECTRICAL PLANS	
	RECESSED EXTERIOR CEILING LIGHT FIXTURE, SEE ELECTRICAL LIGHTING PLANS	
CAM	SECURITY CAMERA, SEE ELECTRICAL PLANS	

ROLLER SHADE NOTATIONS / ABBREVIATIONS:
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- MS MANUAL SOLAR SHADE
- CS DUAL ROLLER SHADES W/ SOLAR & BLACKOUT SHADE COMBO

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ROLLER SHADE ABBREVIATIONS
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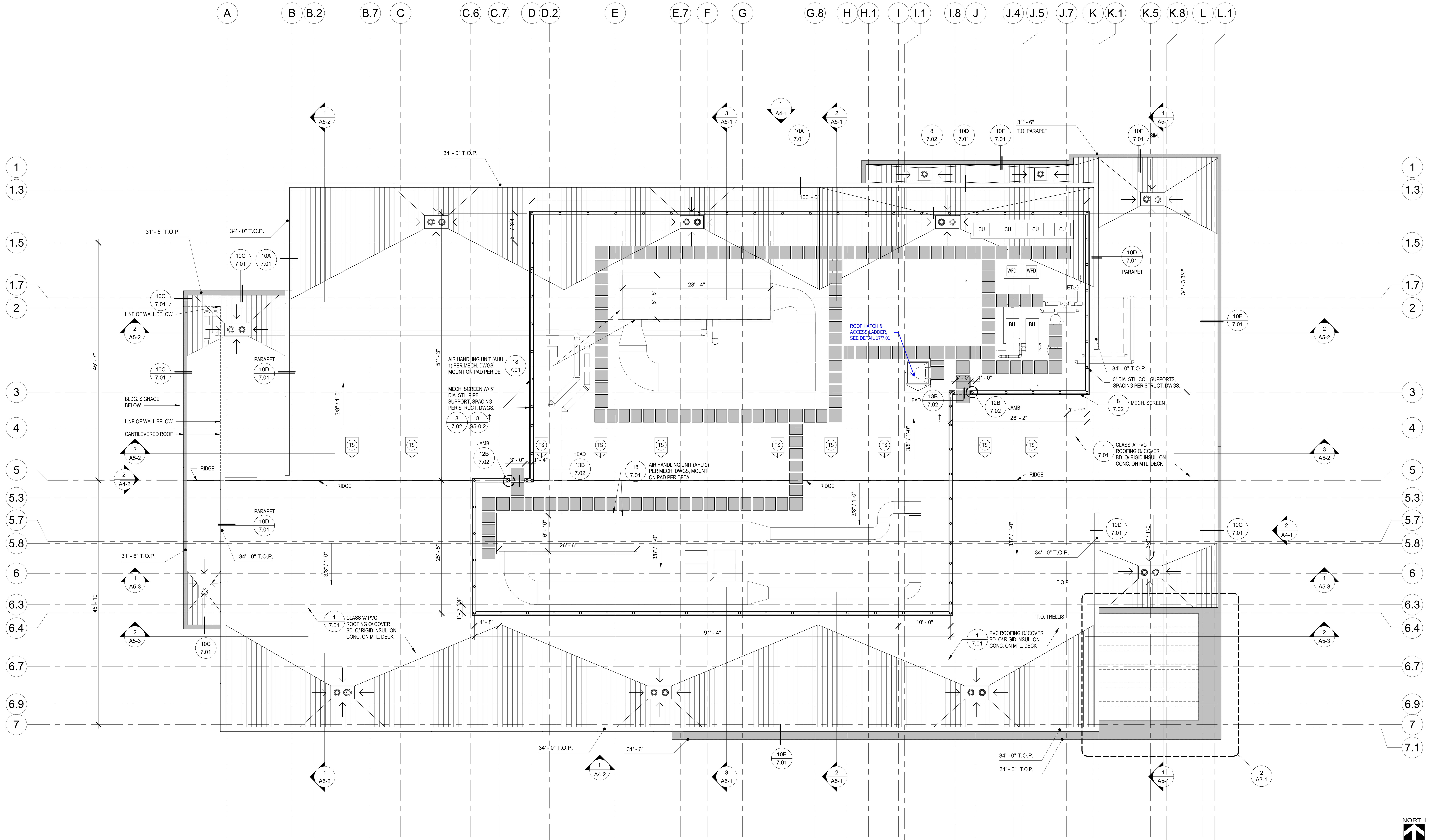
- SS SOLAR SHADES
- MD MOTORIZED DUAL ROLLER SHADES WITH SOLAR AND BLACKOUT SHADE COMBINATION

drawing title:
REFLECTED CEILING PLAN - 2ND FLOOR

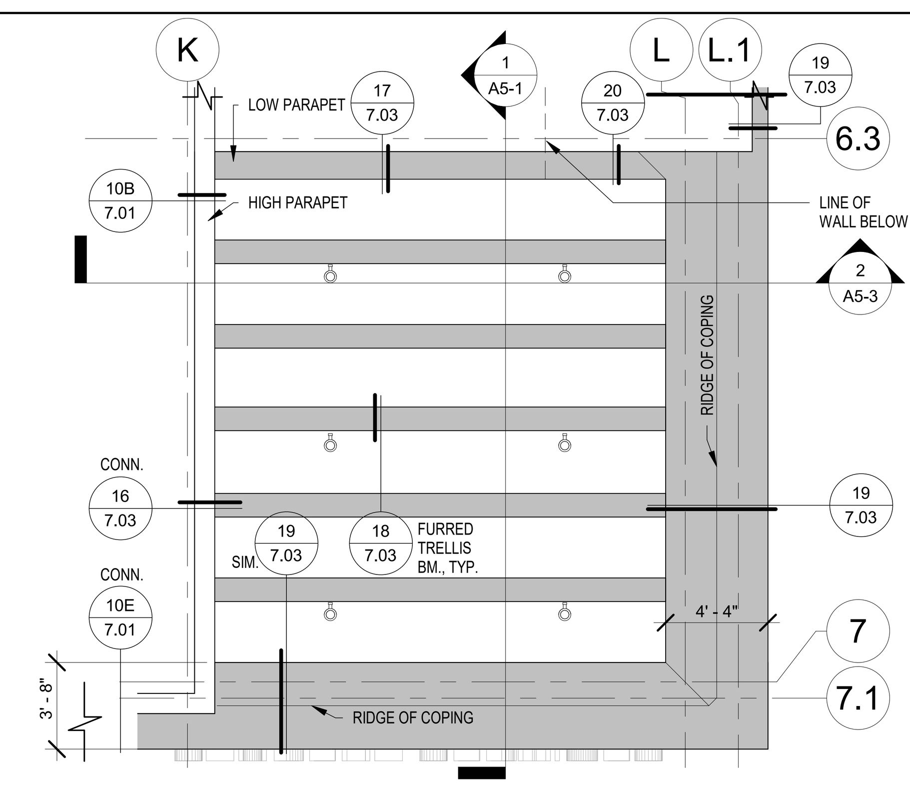
drawing no.:
A2-2



ROOF PLAN 1

SCALE 1/8" = 1'-0"

0' 2' 4' 8' 16'



ENTRY TRELLIS 2

SCALE 3/16" = 1'-0"

LEGEND

NOTE: ALL ROOFING SHALL BE CLASS "A"
WHERE MULTIPLE PIPES OCCUR, PROVIDE CLEARANCE PER 14/7.01

ABBREVIATIONS

O.D.	OVERFLOW DRAIN
R.D.	ROOF DRAIN
T.O.P.	TOP OF PARAPET
T.O.S.	TOP OF STEEL; UNDERSIDE OF DECK (U.N.O.)

EF	EXHAUST FAN PER MECH. DWGS., MOUNT PER 13/7.01, 11/M7-1 & 12/S0-1.6
TS	TUBULAR SKYLIGHT, SEE 5/7.02
	ROOF AND OVERFLOW DRAIN 3/7.02, ROOF DRAIN 4/7.02
	CRICKET 2/7.01
	ROOF HATCH W/ LADDER & GUARDRAIL 17/7.01
	WALKING PAD
CU	CONDENSING UNIT PER MECH. DWGS., MOUNT PER 19/7.01 AND 9/S0-1.6
BU	BOILER UNIT PER MECH. & PLUMBING DWGS., MOUNT PER 9/M7-1
ET	EXPANSION TANK PER MECH. DWGS., MOUNT PER 2/M7-2

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ROOF PLAN

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A3-1

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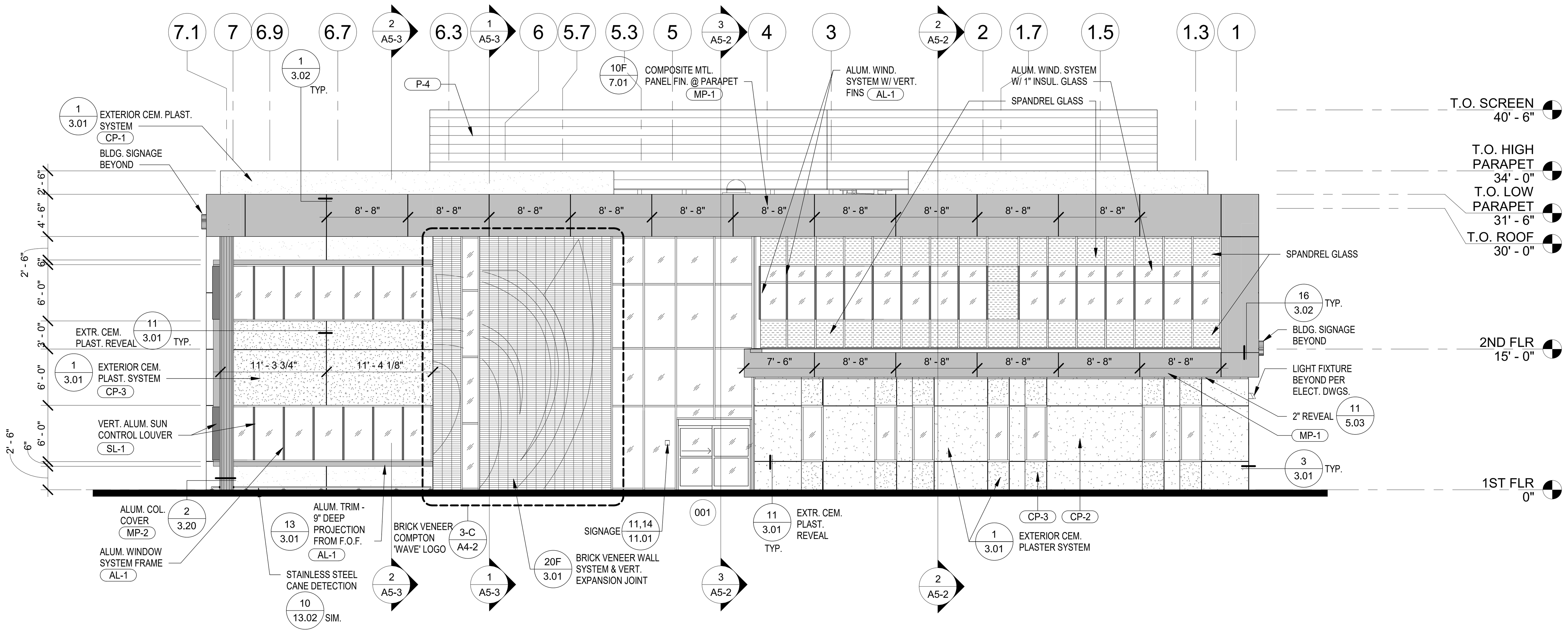
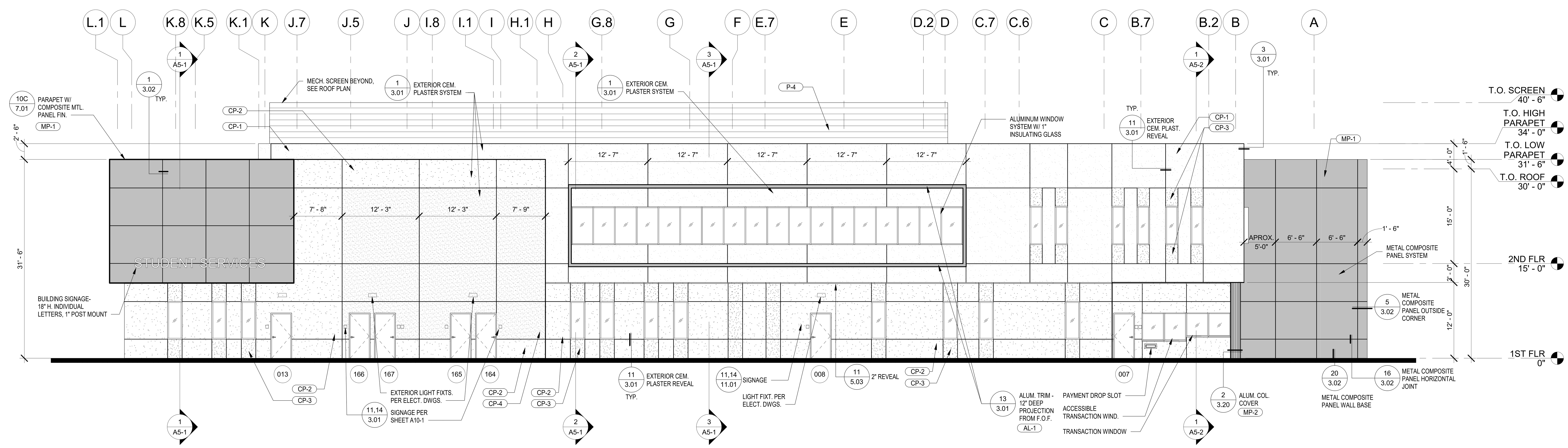


EAST ELEVATION 2

SCALE 1/8" = 1'-0"



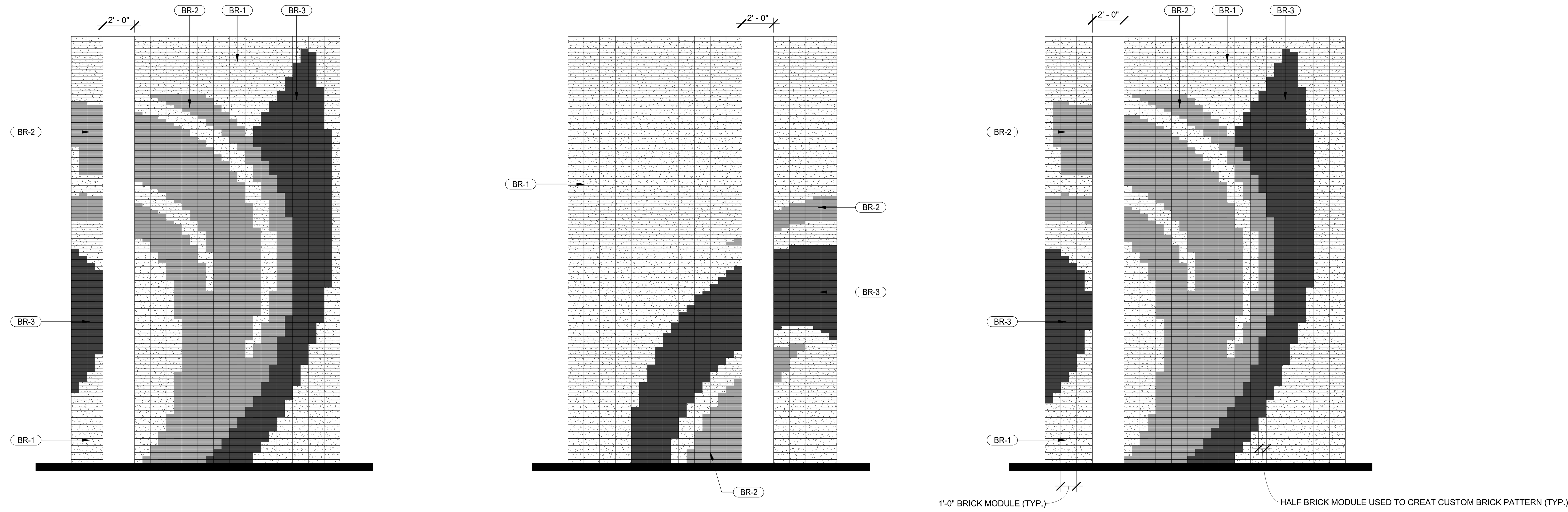
NORTH ELEVATION 1

SCALE 1/8" = 1'-0"

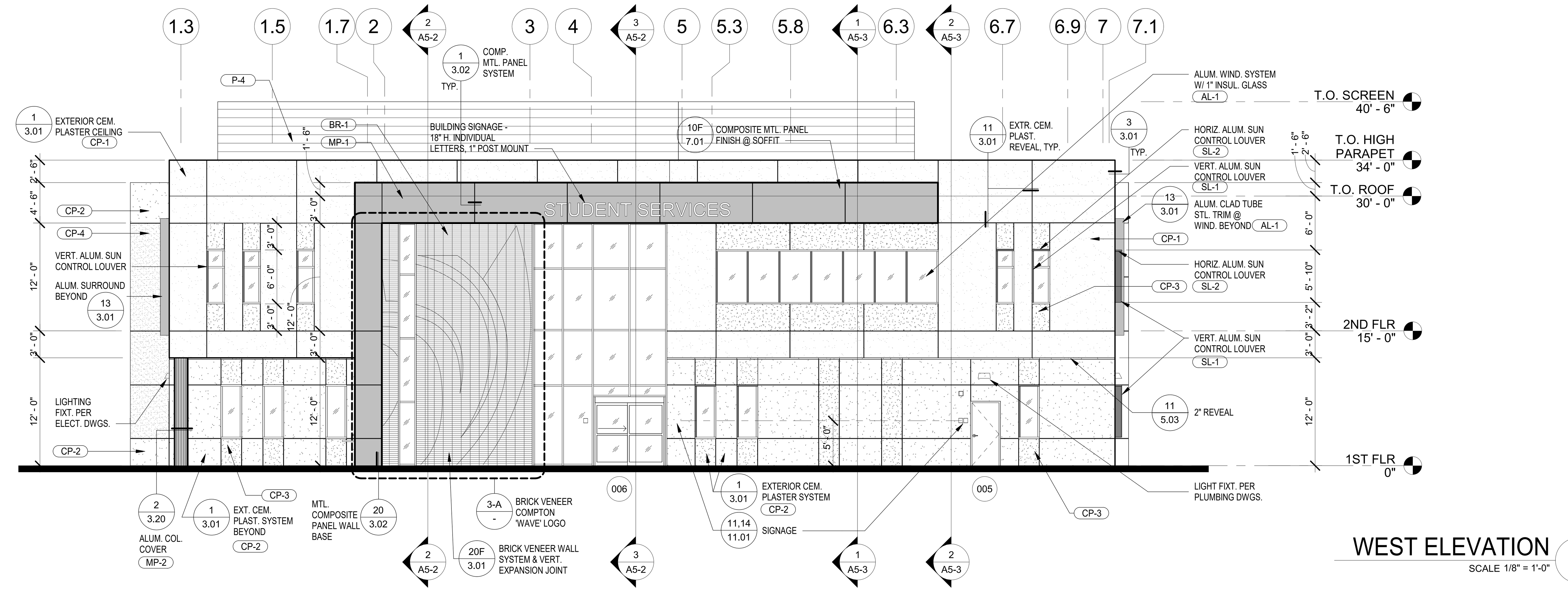
GENERAL NOTES:
1. REFER TO COLOR SCHEDULE ON SHEET 9.02

drawing title:
EXTERIOR ELEVATIONS

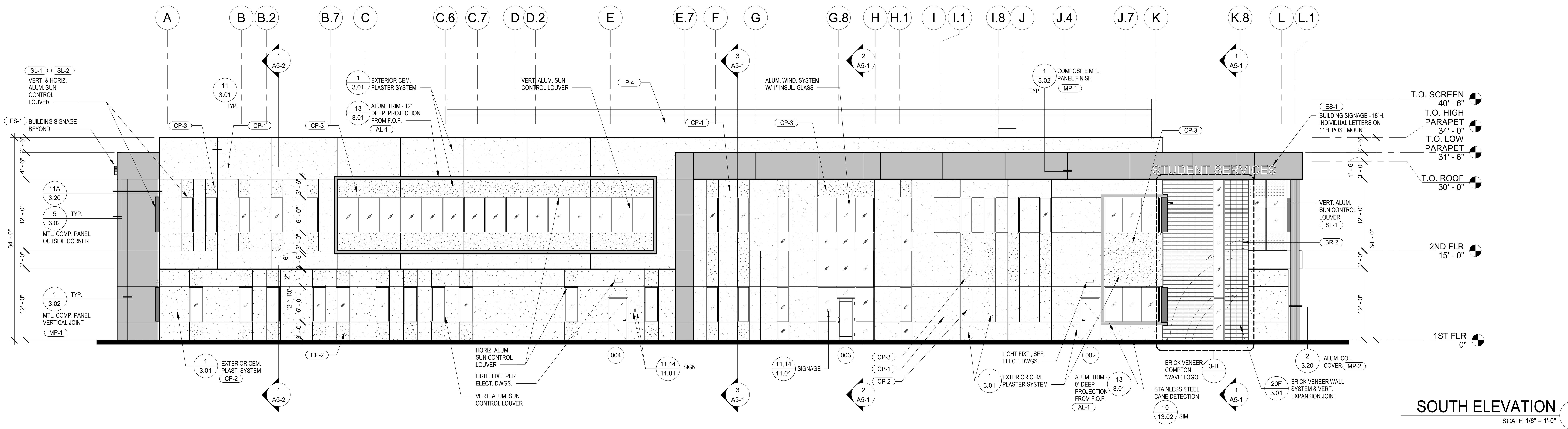
drawing no.:
A4-1



CCCD LOGO ON BRICK WALL 3
SCALE 1/4" = 1'-0"



WEST ELEVATION 2
SCALE 1/8" = 1'-0"



SOUTH ELEVATION 1
SCALE 1/8" = 1'-0"

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EXTERIOR ELEVATIONS

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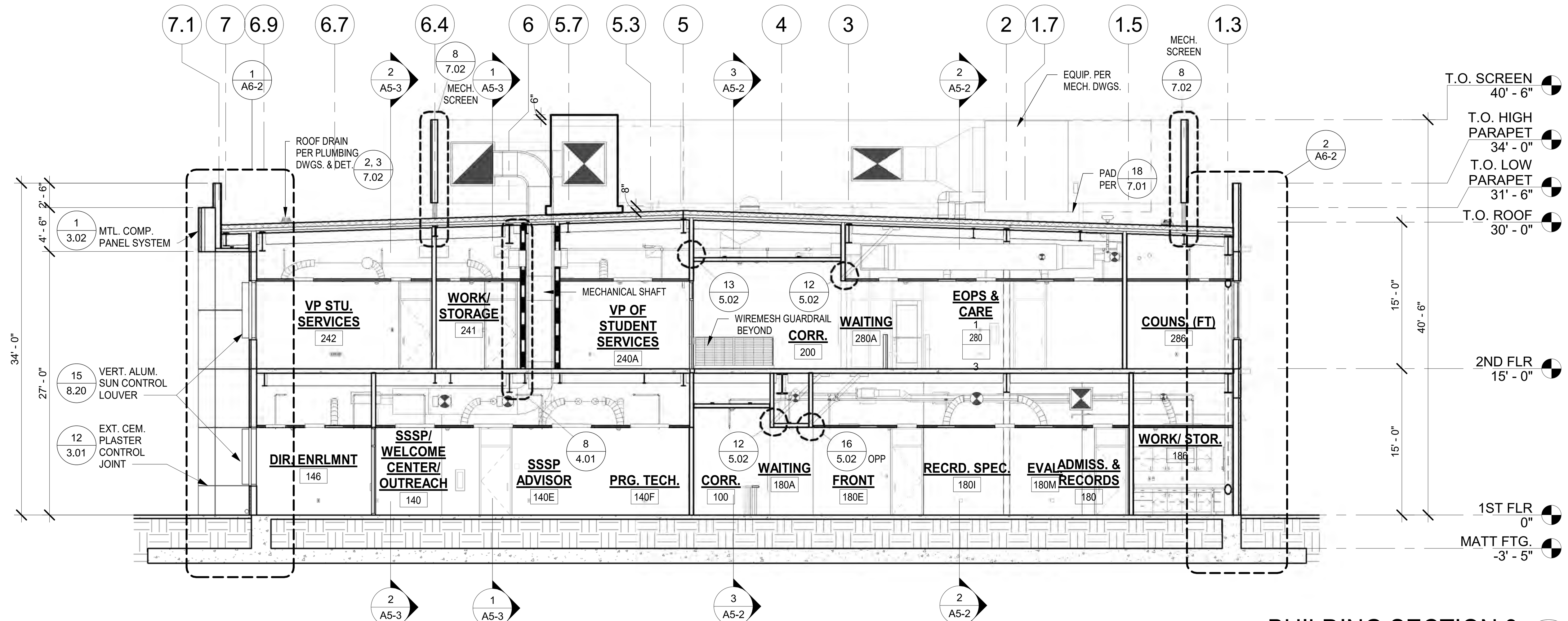
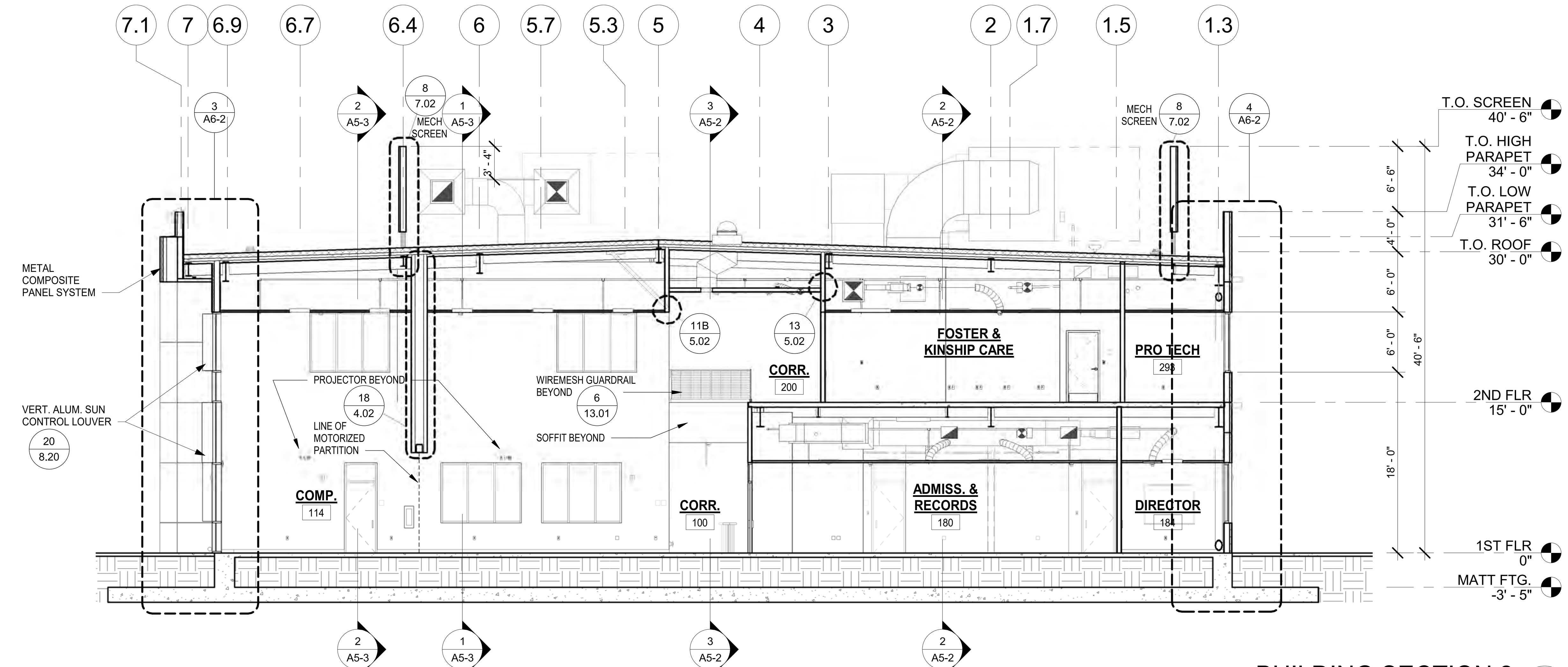
A4-2



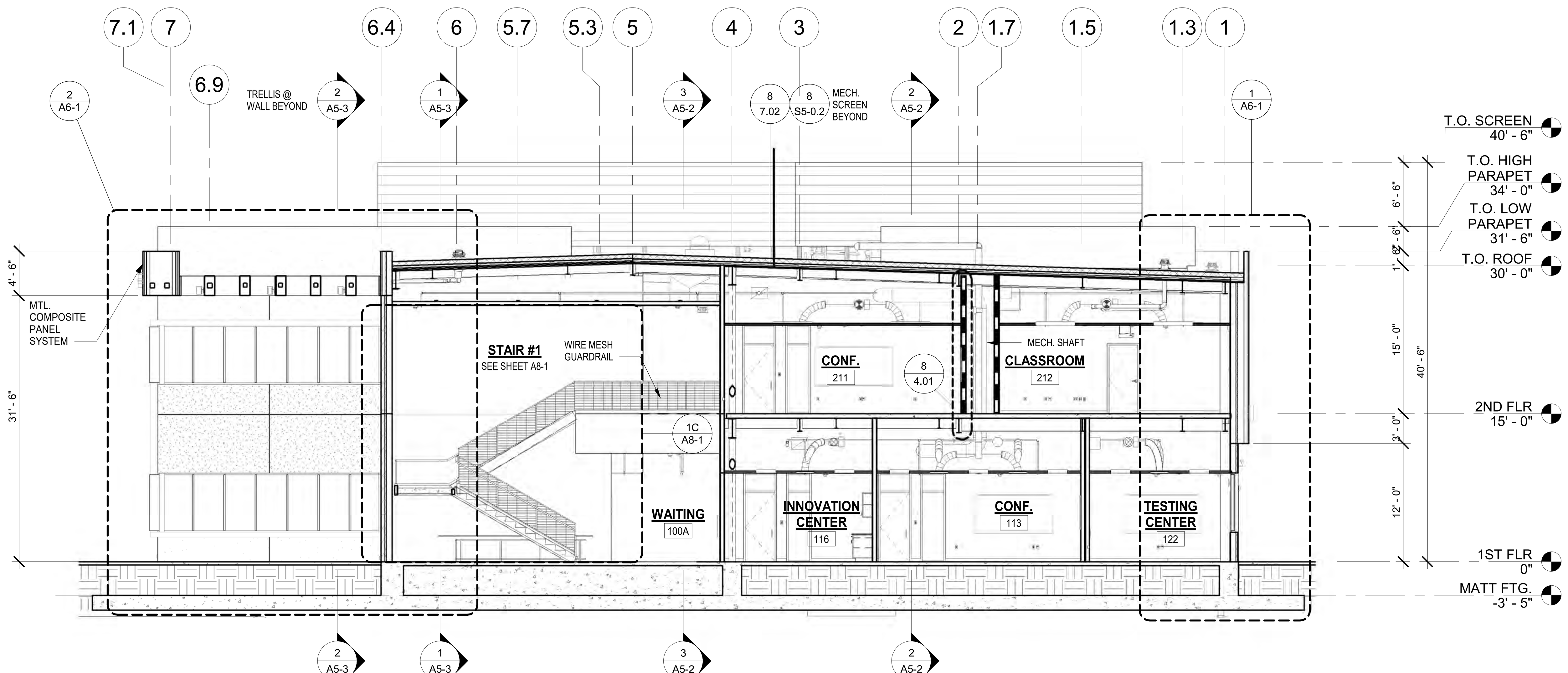
BUILDING SECTION 3

SCALE 1/8" = 1'-0"



BUILDING SECTION 2

SCALE 1/8" = 1'-0"



BUILDING SECTION 1

SCALE 1/8" = 1'-0"

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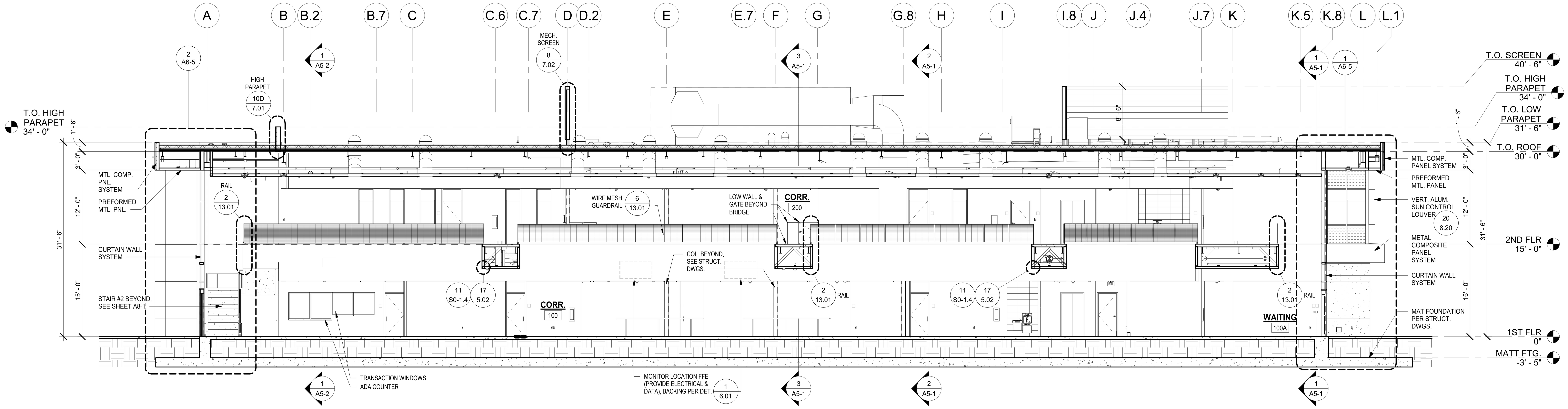
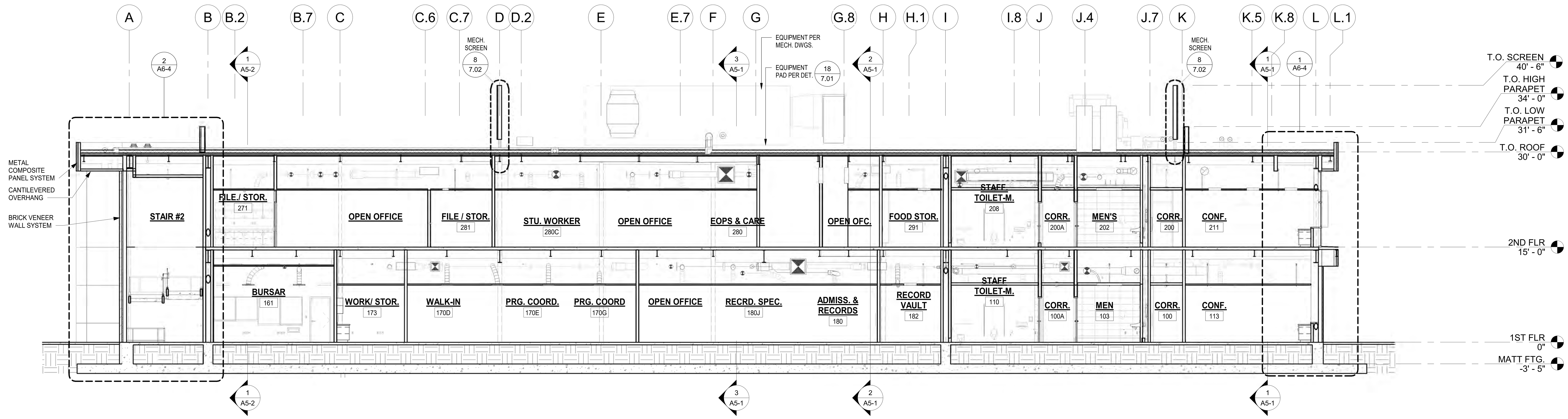
BUILDING SECTIONS

drawing no.:
A5-1



BUILDING SECTION 6 3

SCALE 1/8" = 1'-0"



BUILDING SECTION 5 2

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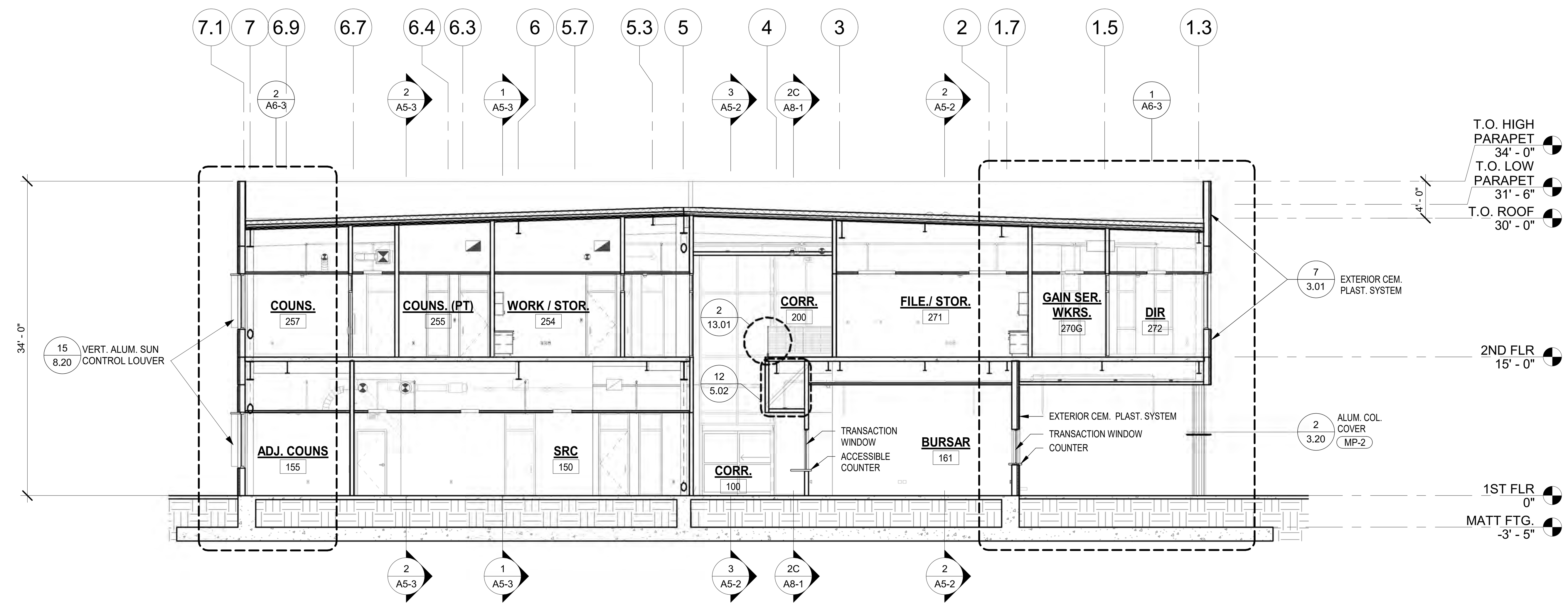

BUILDING SECTION 4 1

SCALE 1/8" = 1'-0"

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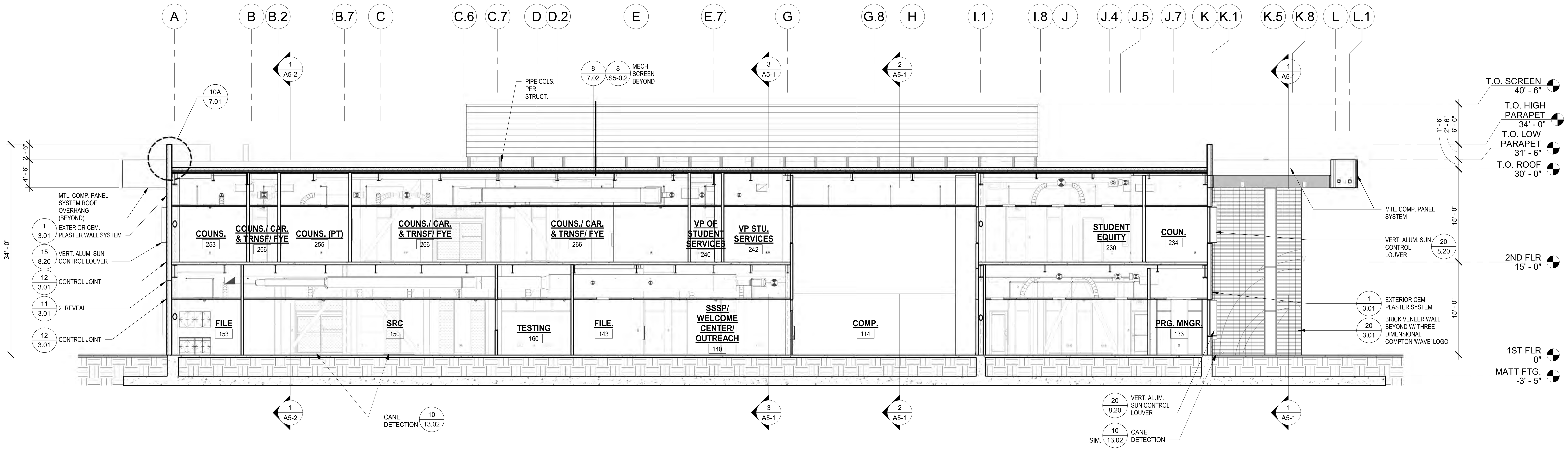
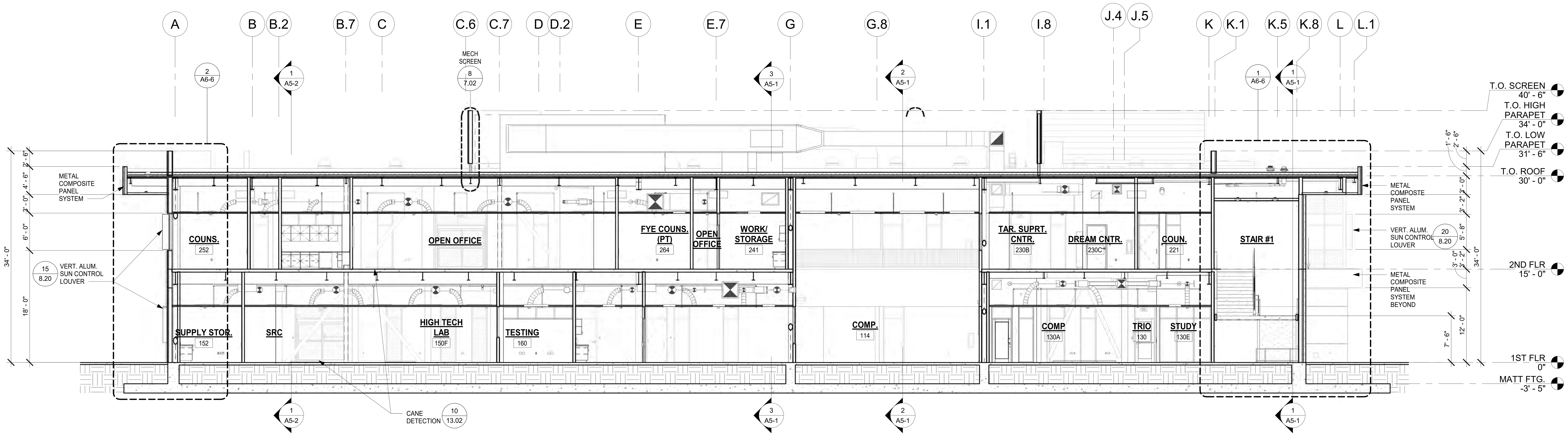
BUILDING SECTIONS

drawing no.:

A5-2



BUILDING SECTION 8 2
SCALE 1/8" = 1'-0"



BUILDING SECTION 7 1
SCALE 1/8" = 1'-0"

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BUILDING SECTIONS

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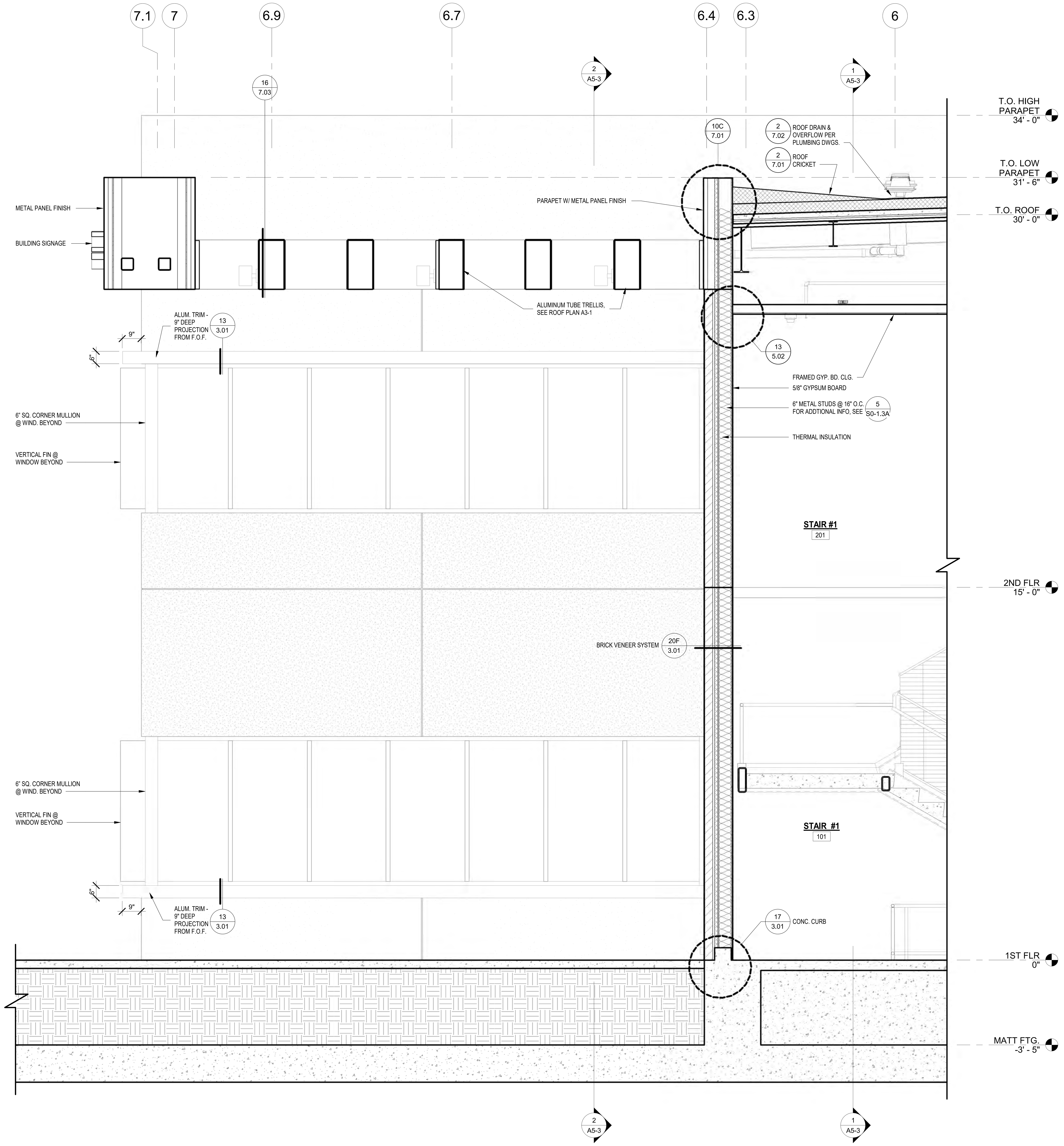
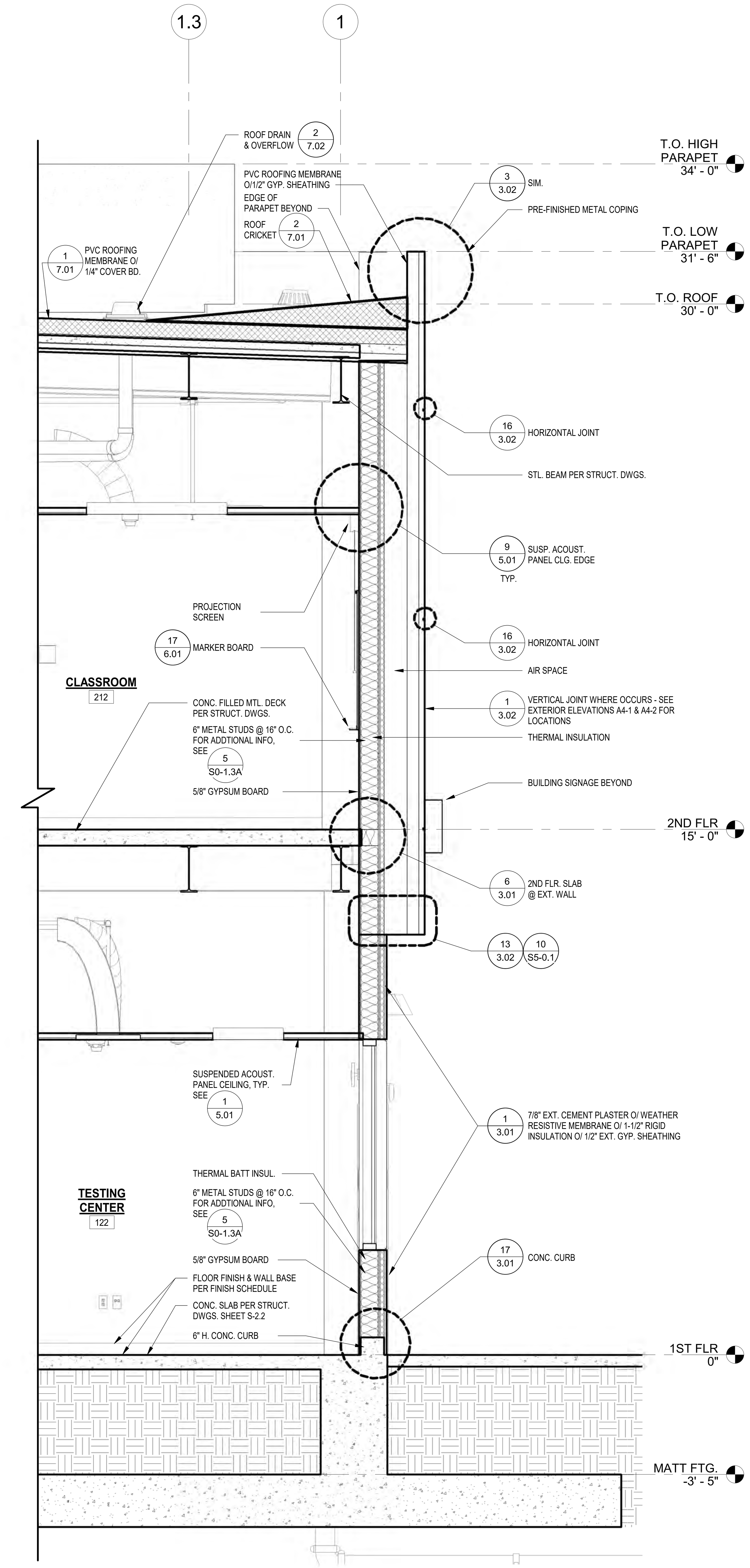
A5-3



WALL SECTION 2 (2)
SCALE 1/2" = 1'-0"



WALL SECTION 1 (1)
SCALE 1/2" = 1'-0"

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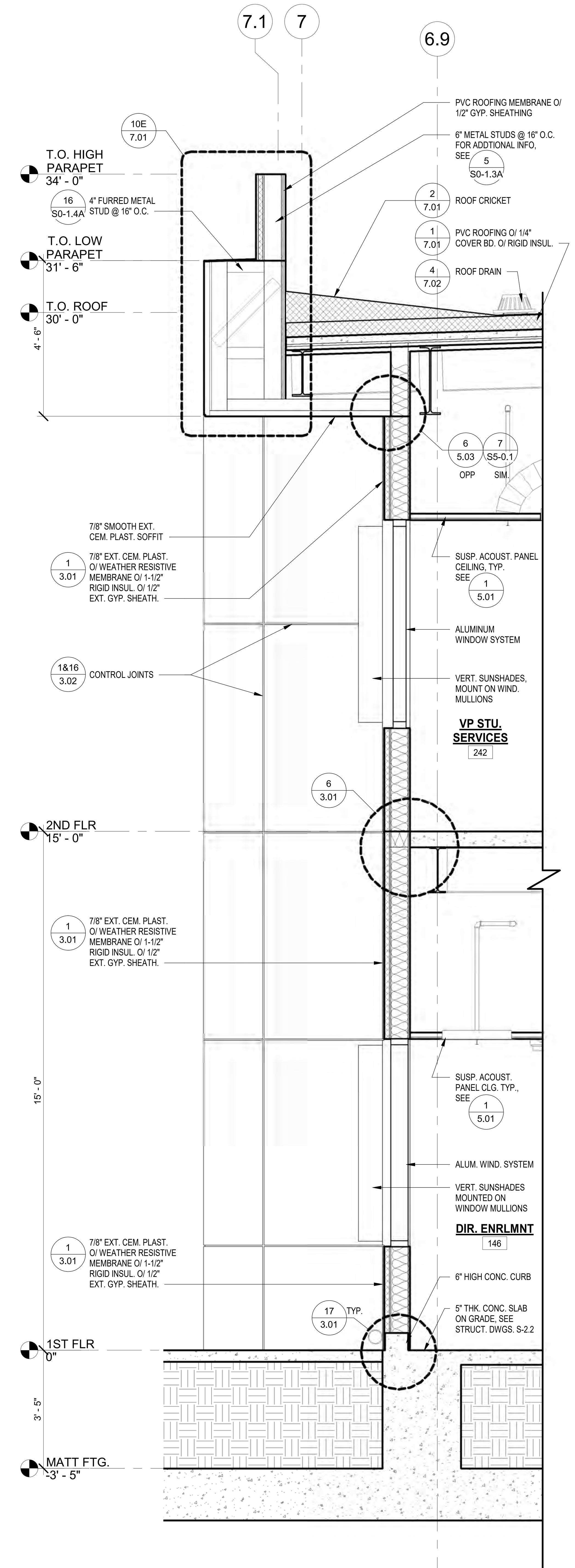
WALL SECTIONS

drawing no.:
A6-1



WALL SECTION 5 1
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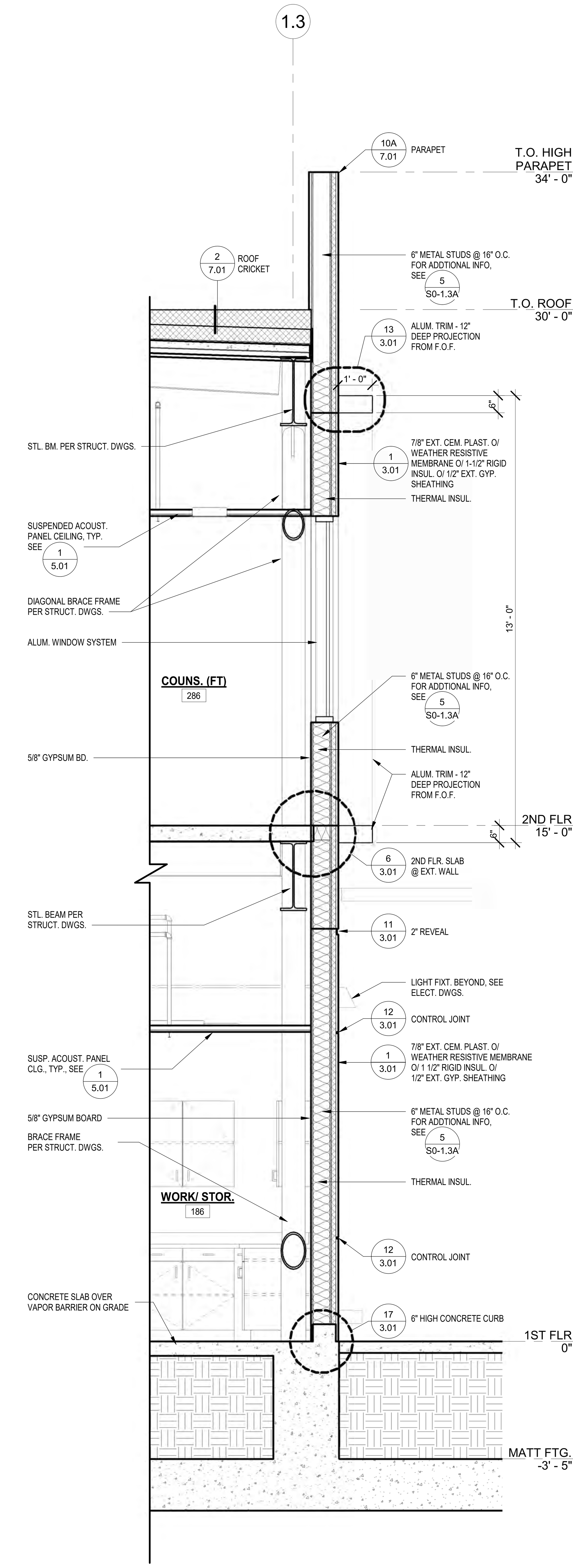

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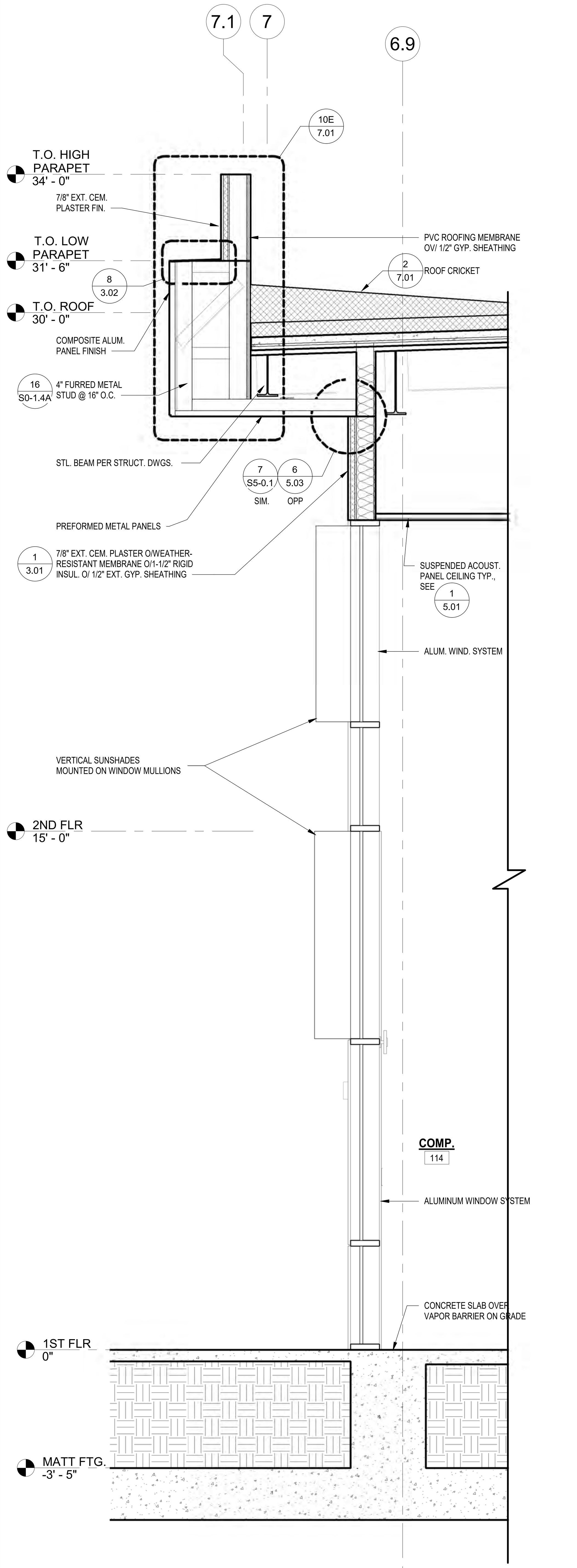
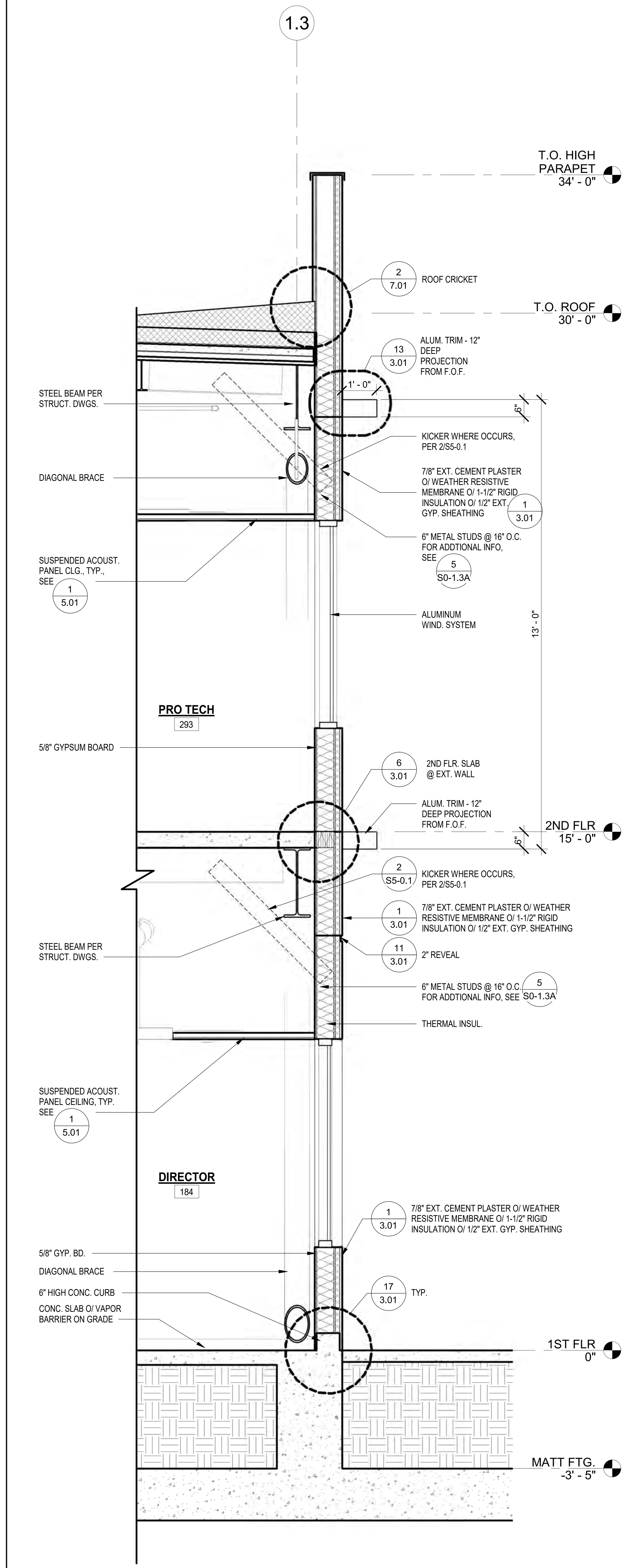
SCALE 1/2" = 1'-0"



WALL SECTION 3 3
SCALE 1/2" = 1'-0"



WALL SECTION 4 4
SCALE 1/2" = 1'-0"

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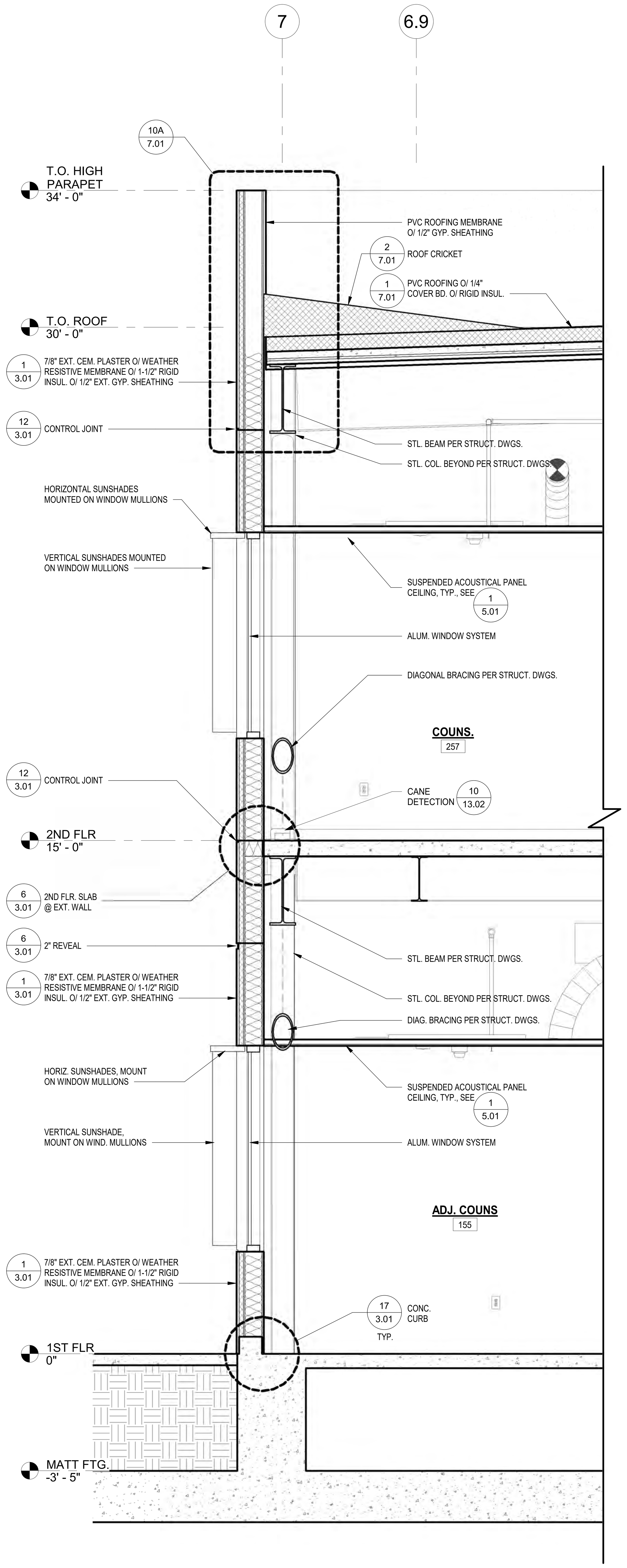
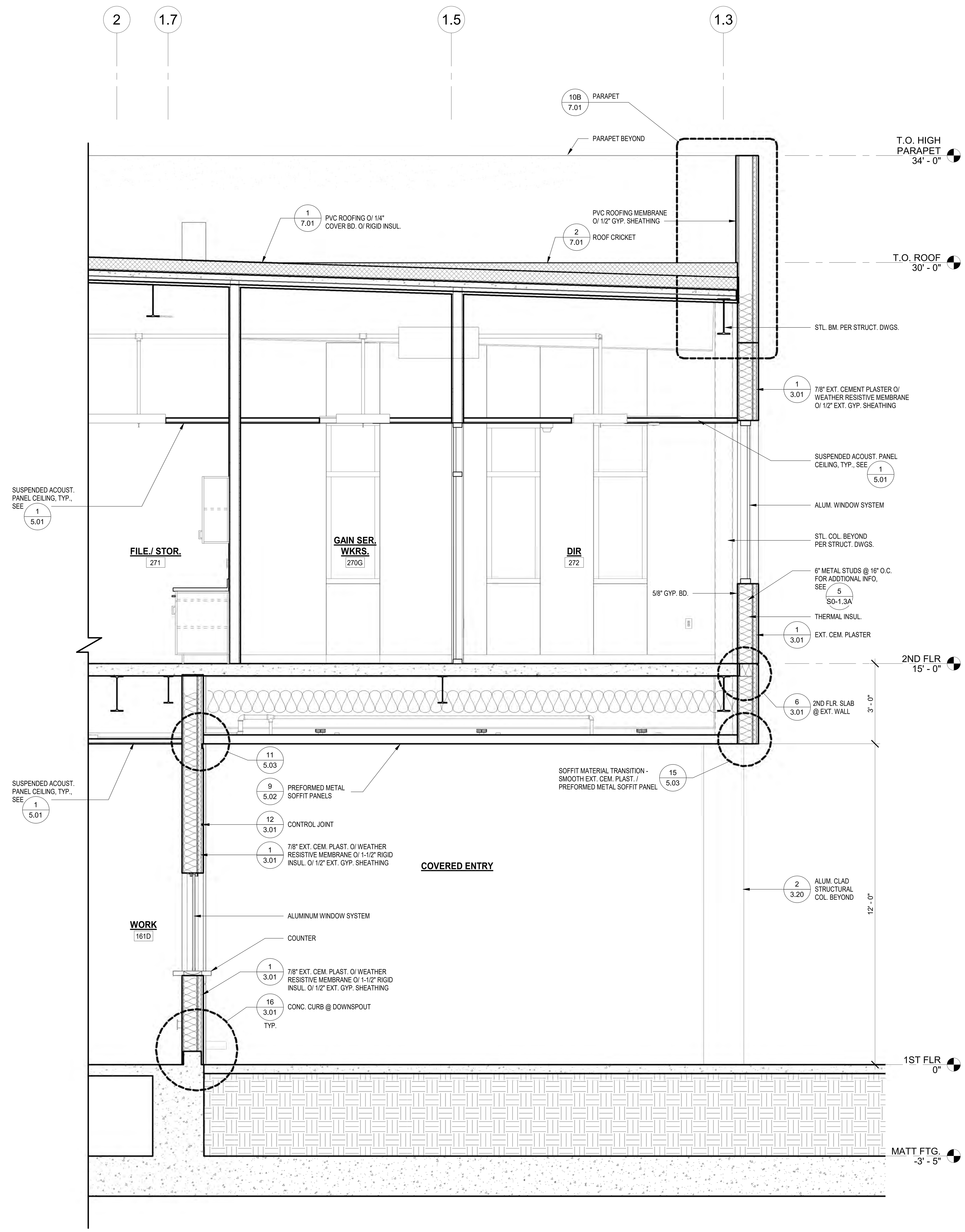
drawing no.:
A6-2



WALL SECTION 7 2
SCALE 1/2" = 1'-0"



WALL SECTION 8 1
SCALE 1/2" = 1'-0"

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APP. 03-119686 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 10/14/2019

DIVISION OF THE STATE ARCHITECT
WELLS FARGO CENTER - SOUTH TOWER
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ph:(213) 897-3995 fx:(213) 897-3159/0726

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ph: 949.673.0300 fx: 949.732.3895

architect

consultant

COMPTON COLLEGE
STUDENT SERVICES BLDG.

COMPTON COMMUNITY COLLEGE DISTRICT
1111 E. ARTESIA BLVD.
COMPTON, CA 90221

owner

tBP project number: 20987.00

file name: CC_SS_Central.RVT

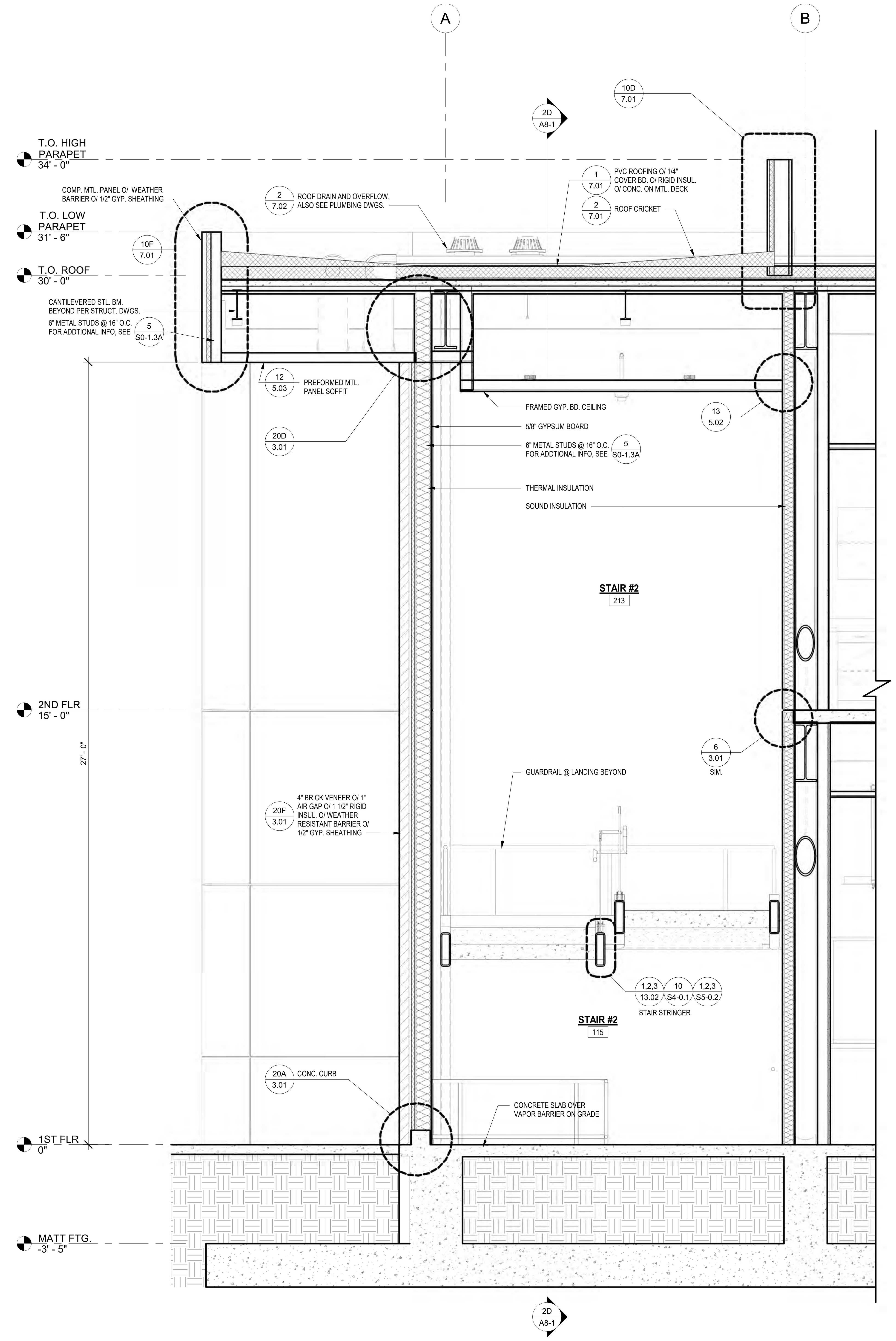
drawn by: Z. WEN checked by: T. HALL

date: 9.3.2019

rev:	date:	description:

drawing title:
WALL SECTIONS

drawing no.:
A6-3



WALL SECTION 10 2
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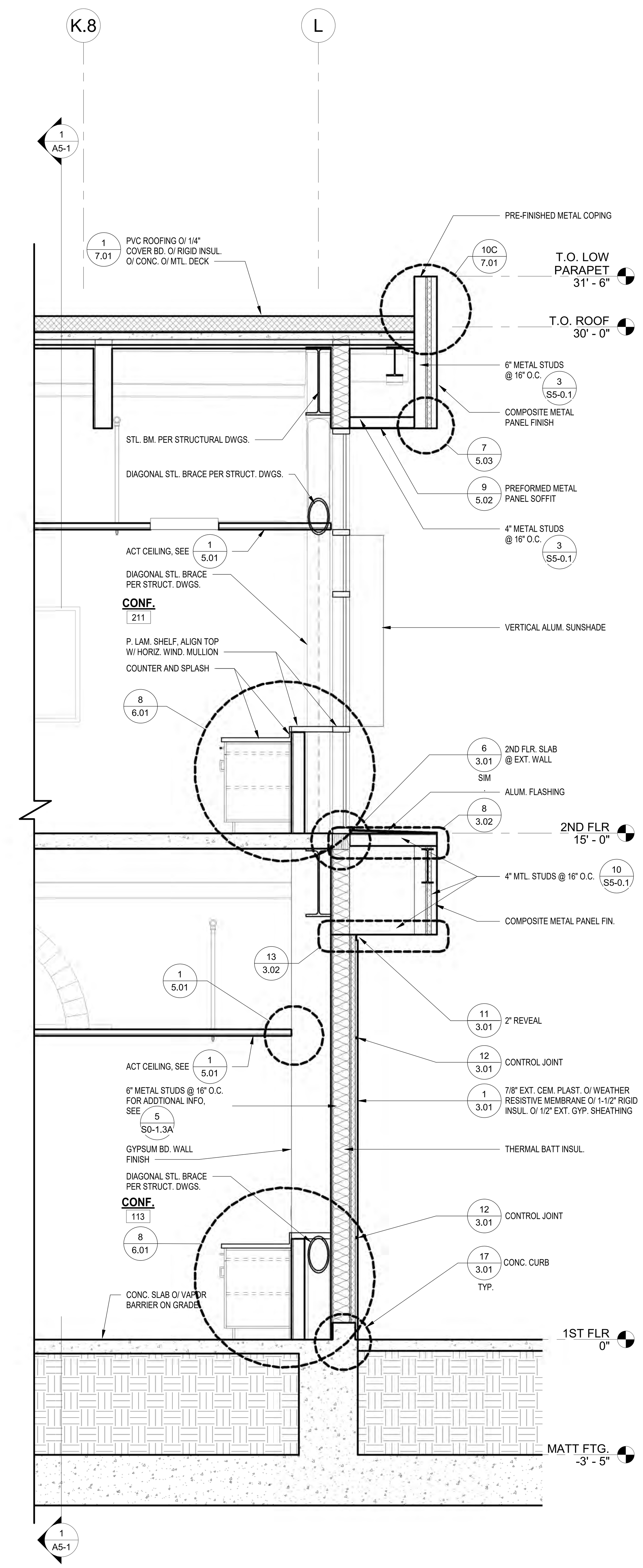

WALL SECTION 9 1
SCALE 1/2" = 1'-0"

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tBP project number: 20987.00
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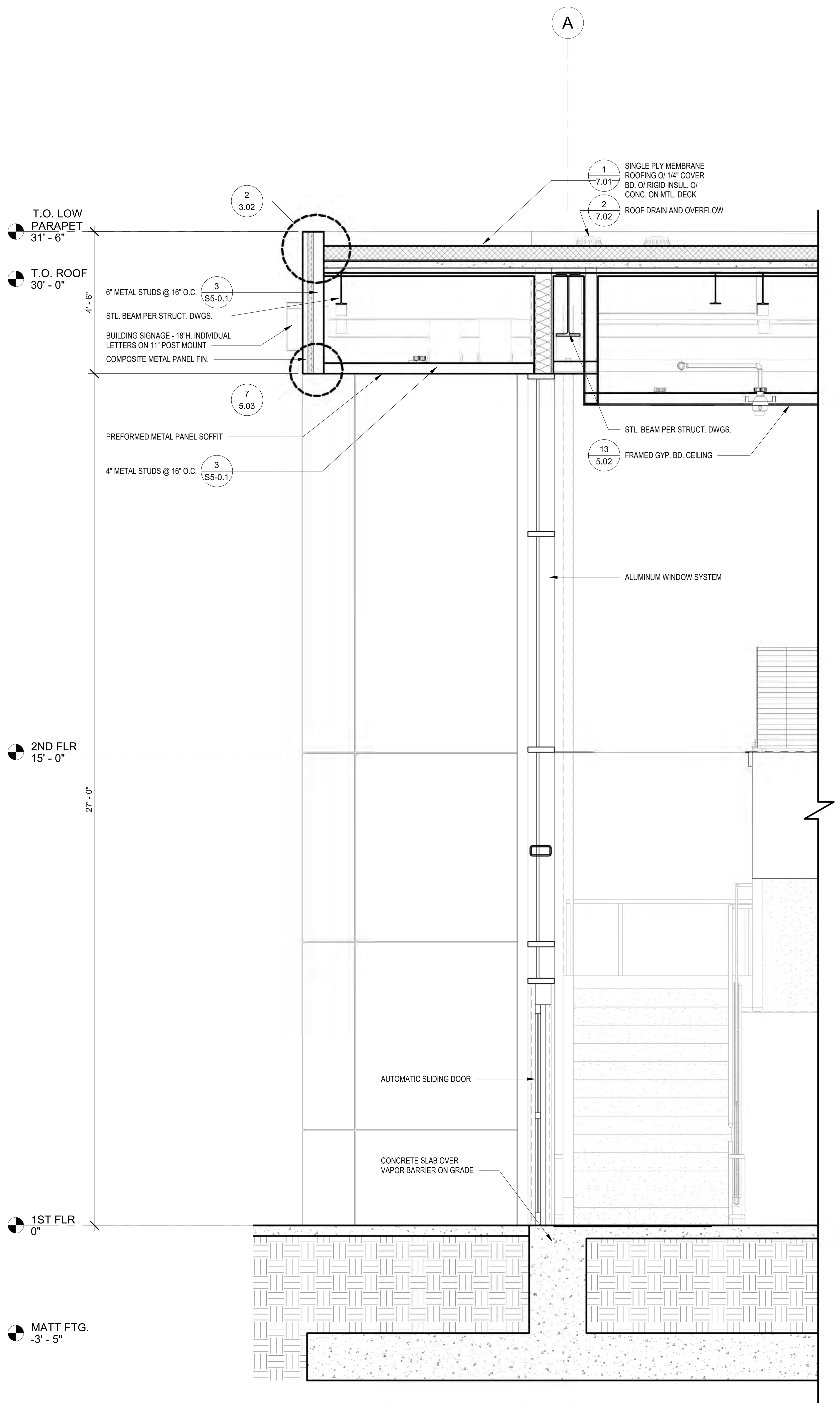
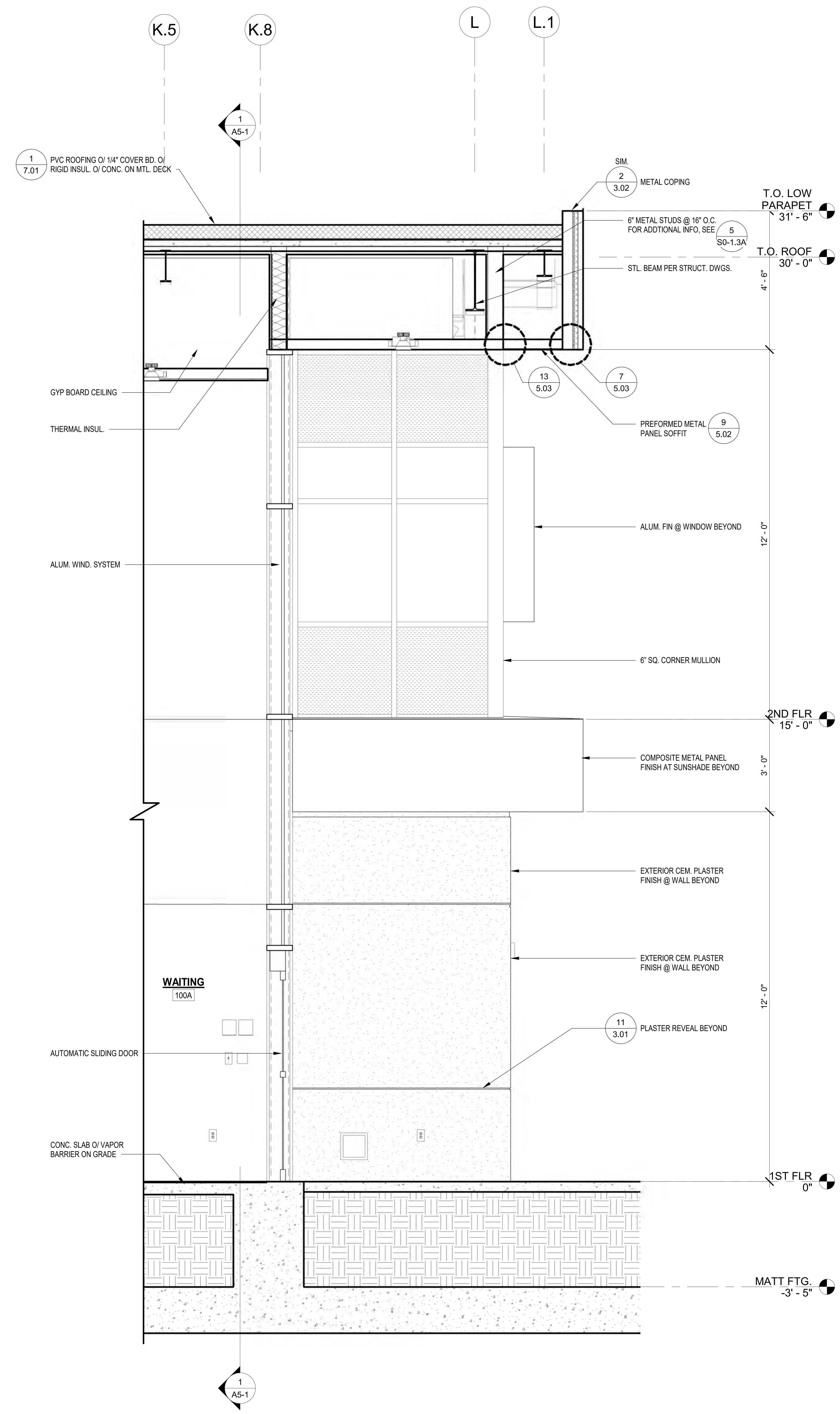
rev:	date:	description:

drawing title:
WALL SECTIONS

drawing no.:
A6-4



WALL SECTION 12 (2)
SCALE 1/2" = 1'-0"



WALL SECTION 11 (1)
SCALE 1/2" = 1'-0"

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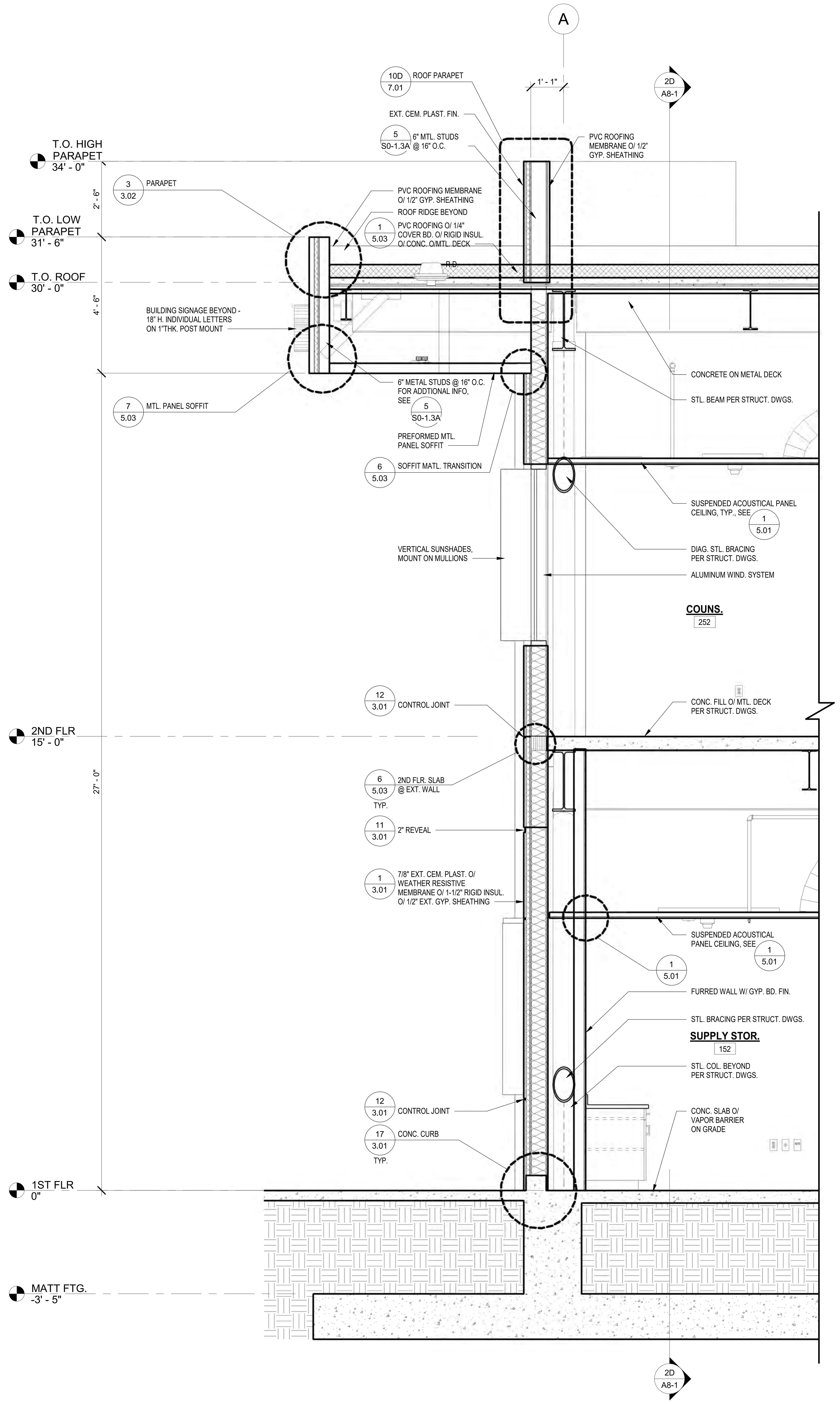
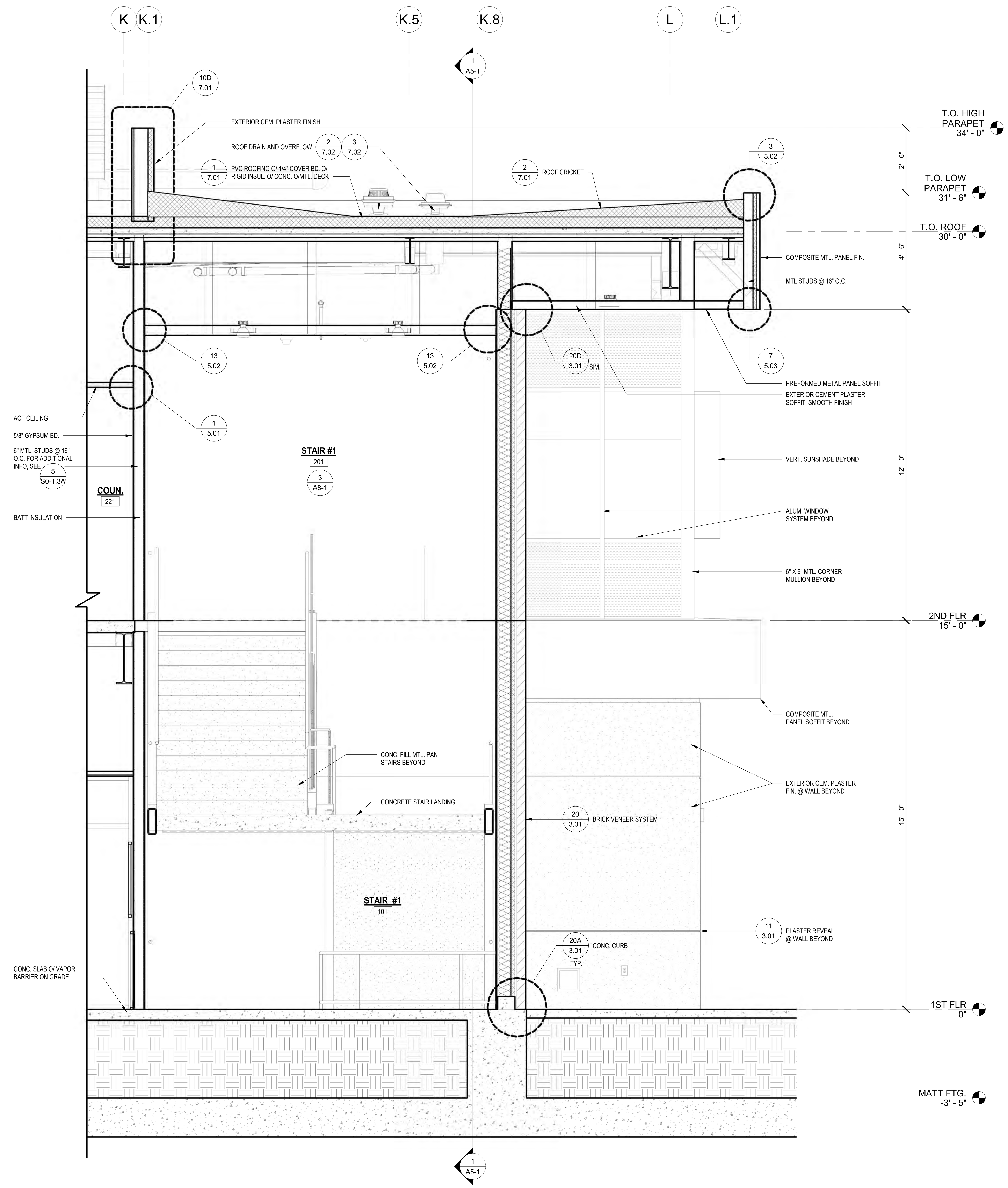
rev:	date:	description:

drawing title:
WALL SECTIONS

drawing no.:
A6-5



WALL SECTION 14 (2)
SCALE 1/2" = 1'-0"



WALL SECTION 13 (1)
SCALE 1/2" = 1'-0"

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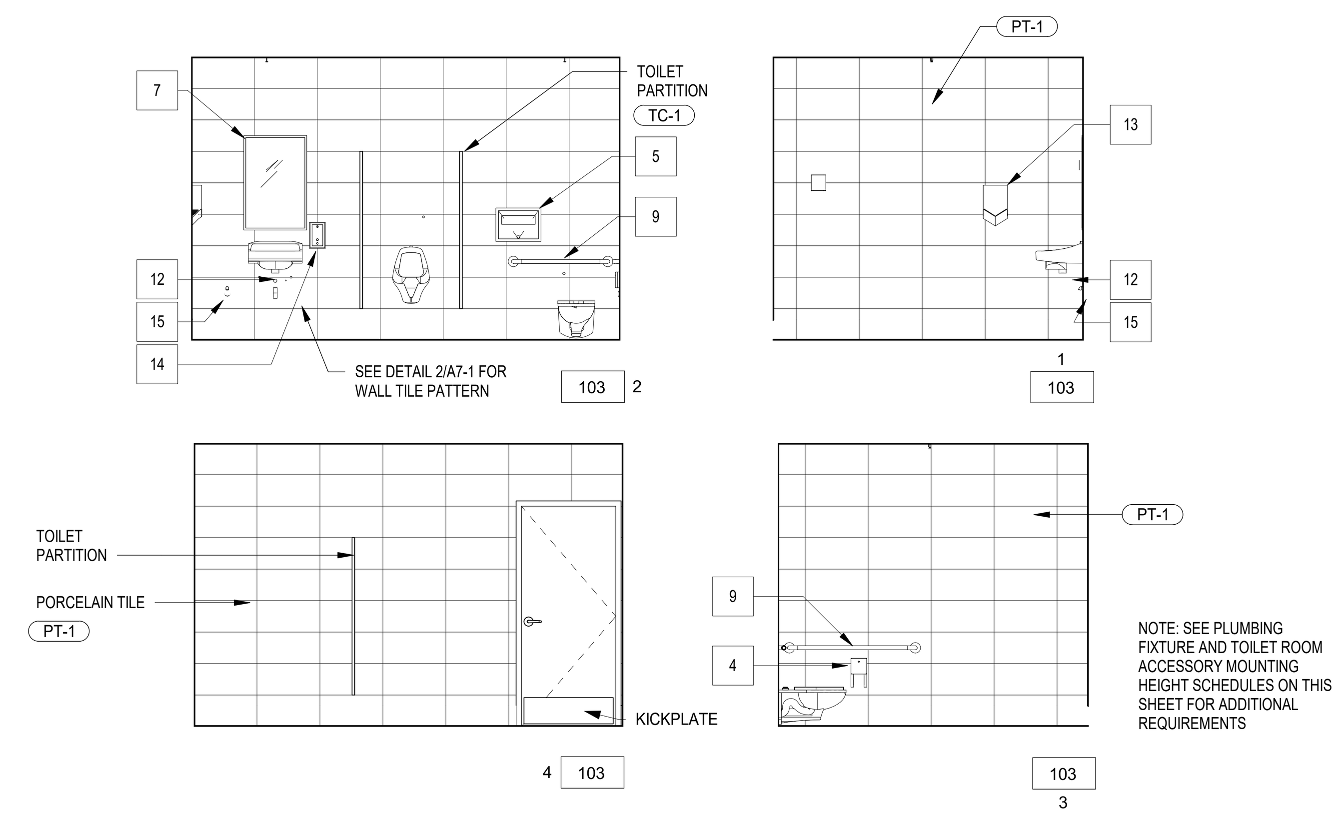
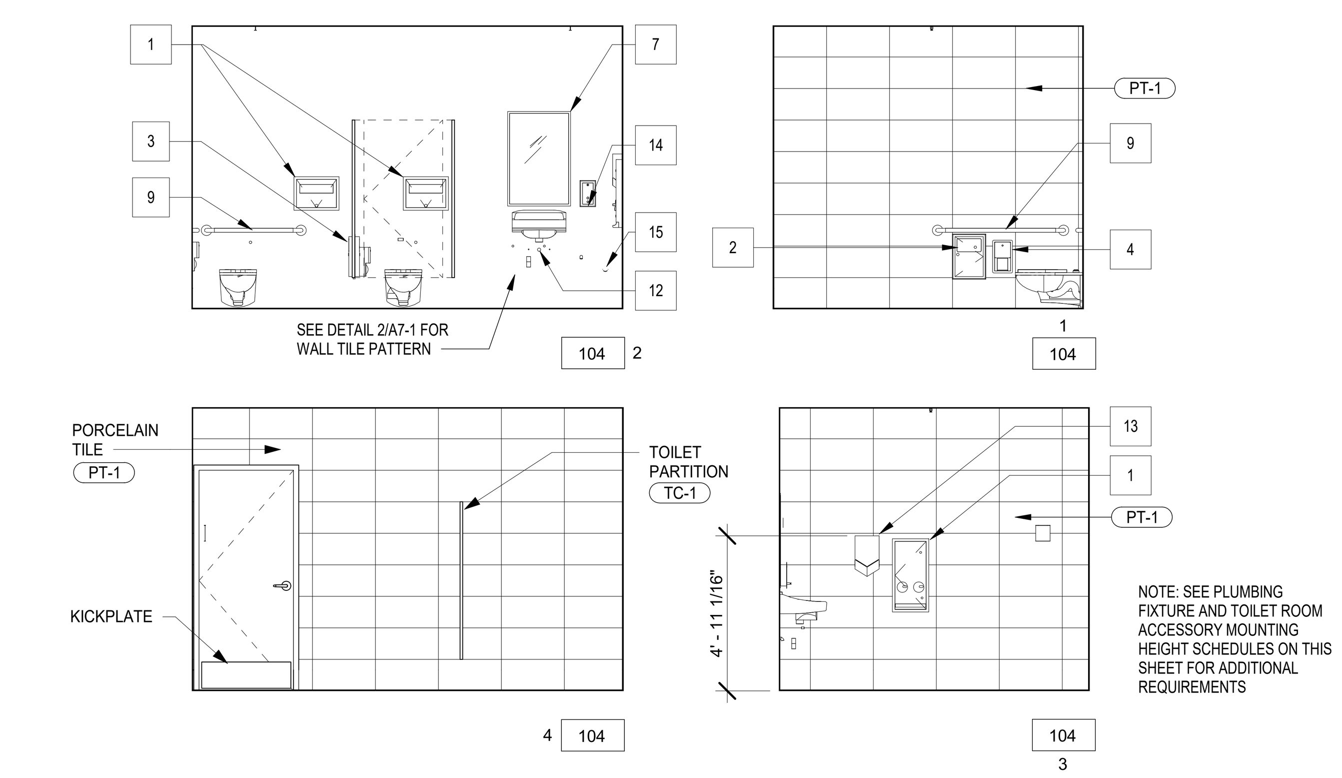
rev:	date:	description:

drawing title:
WALL SECTIONS

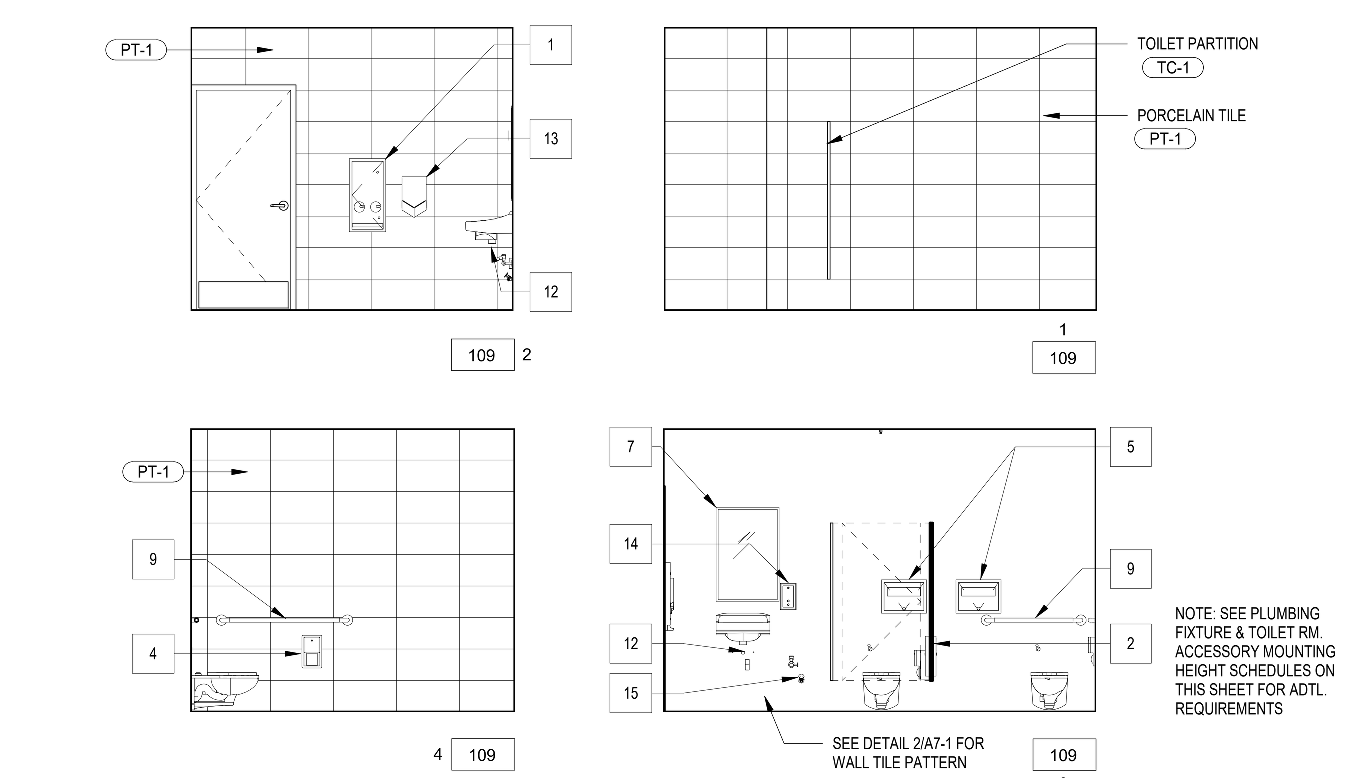
drawing no.:
A6-6



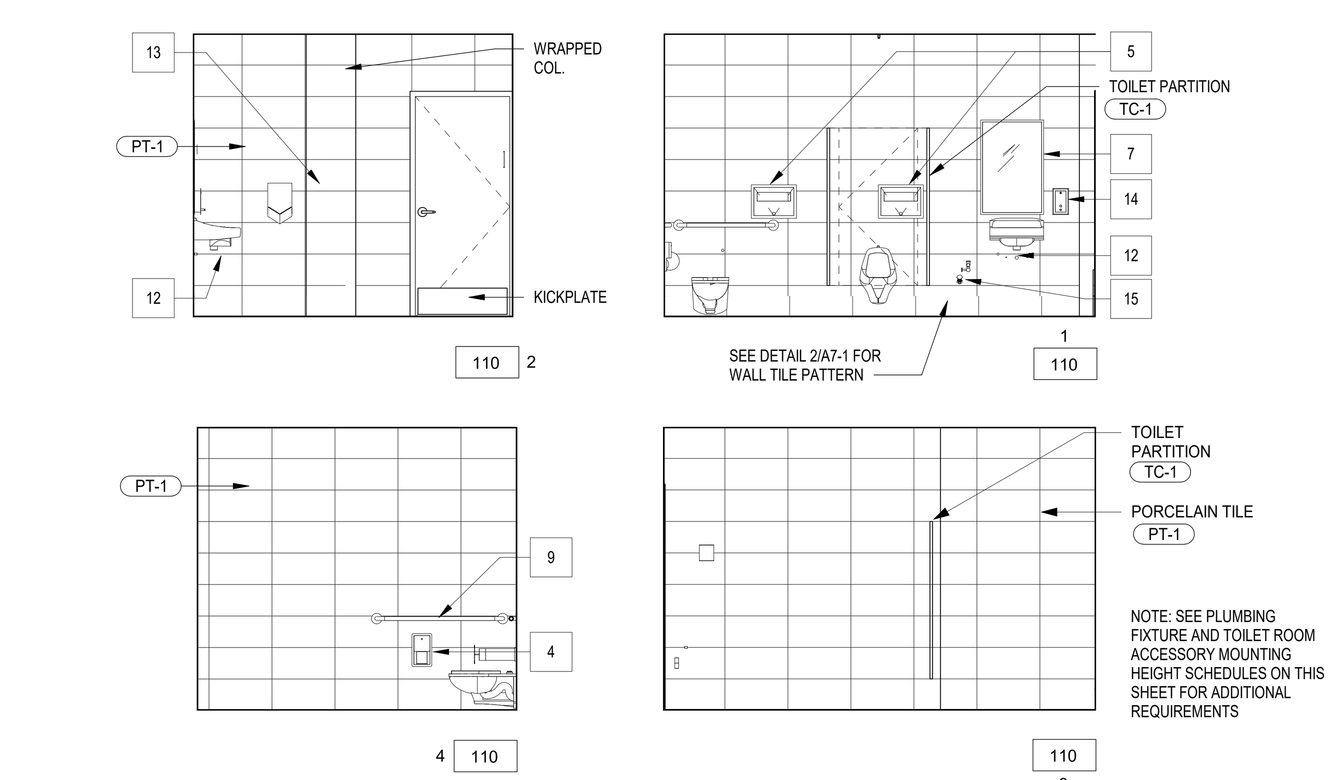
MEN'S RESTROOM 103
SCALE: 1/4"=1'-0"



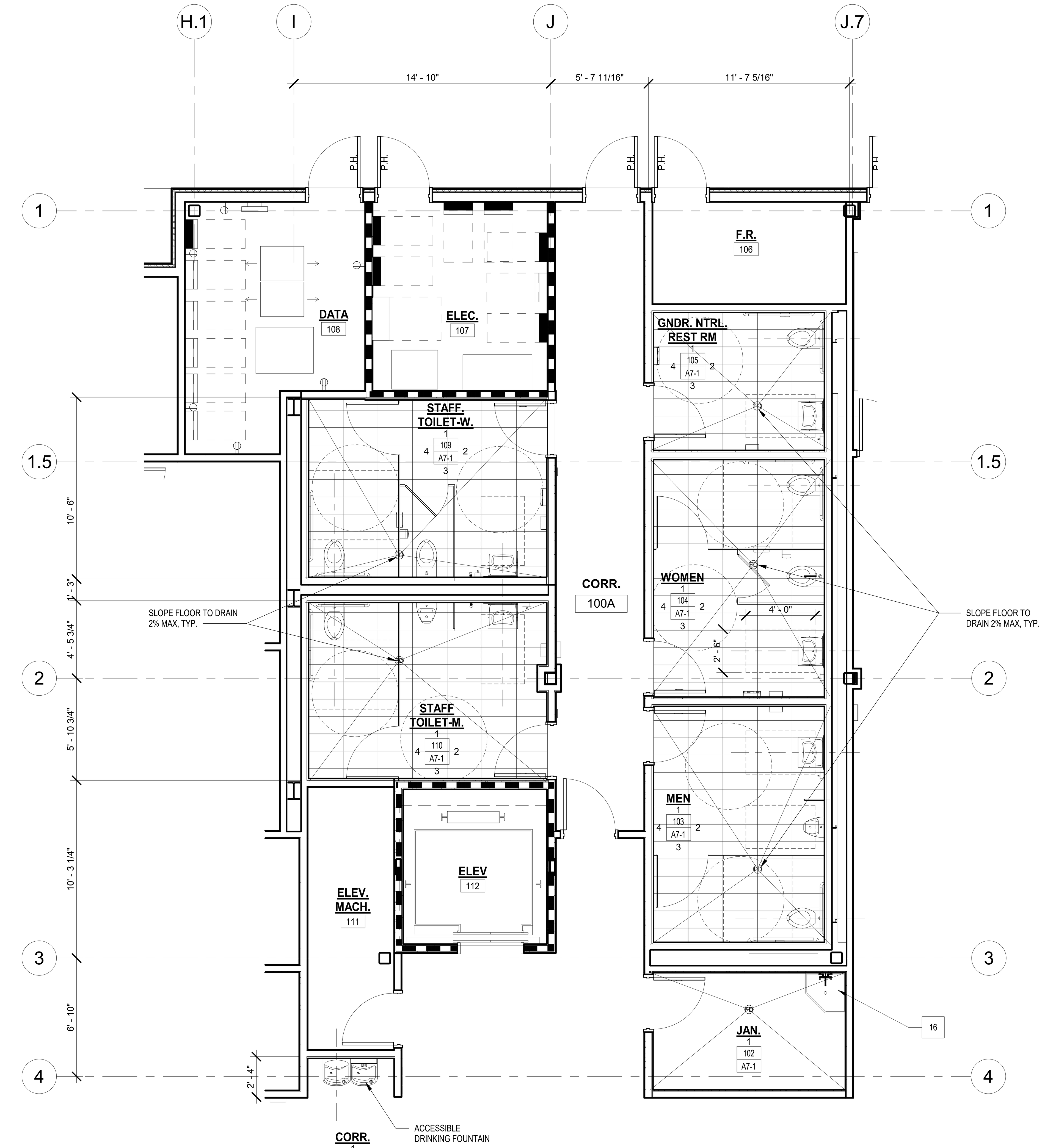
WOMEN'S RESTROOM 104
SCALE: 1/4"=1'-0"



STAFF TOILET - WOMEN 109
SCALE: 1/4"=1'-0"



STAFF TOILET - MEN 110
SCALE: 1/4"=1'-0"



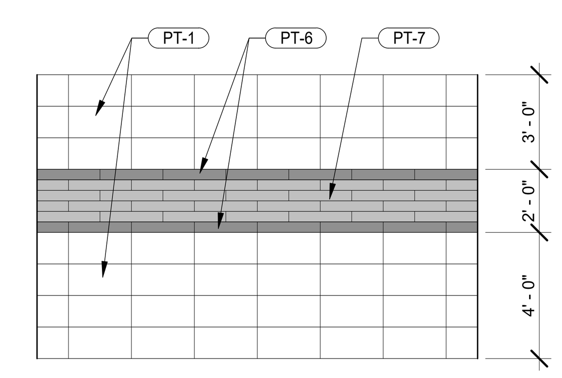
ENLARGED TOILET PLAN - 1ST FLR 1
SCALE 1/4" = 1'-0"

NORTH

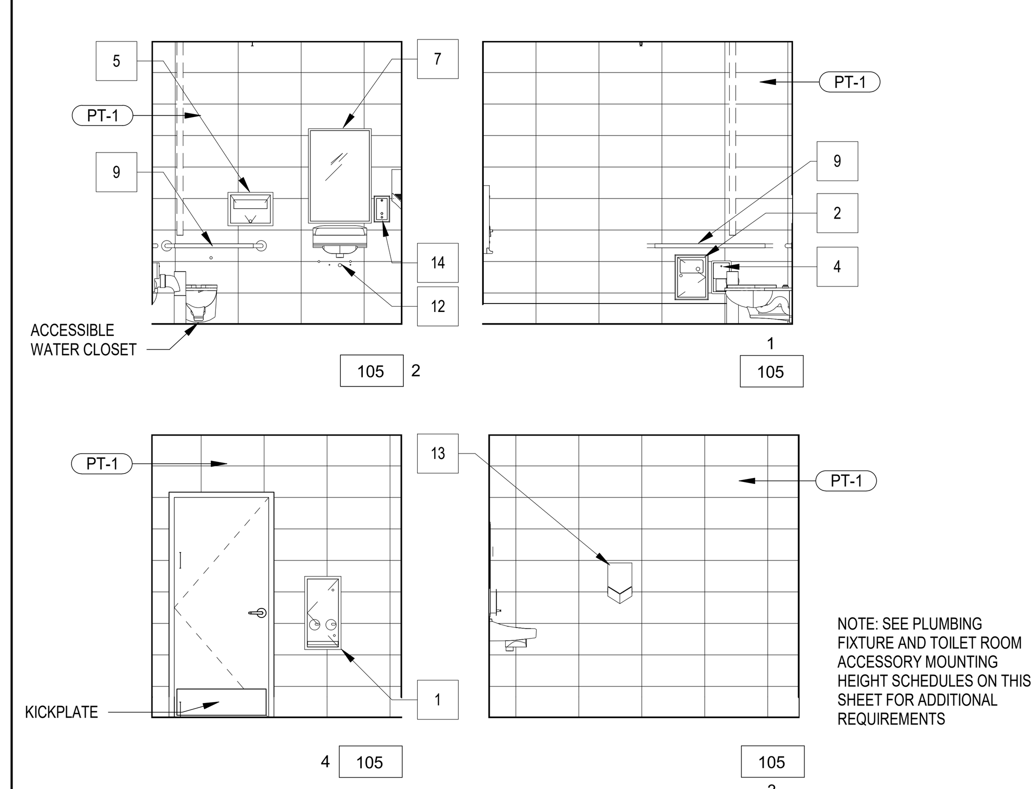
NOTES:

SEE PLUMBING FIXTURE & TOILET RM. ACCESSORY MOUNTING HEIGHT SCHEDULES ON THIS SHEET FOR ADTL. REQUIREMENTS

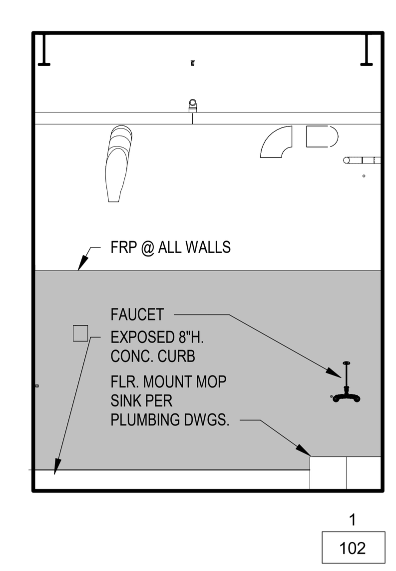
ALL DIMENSIONS IN RESTROOMS ARE TO FACE OF FINISH



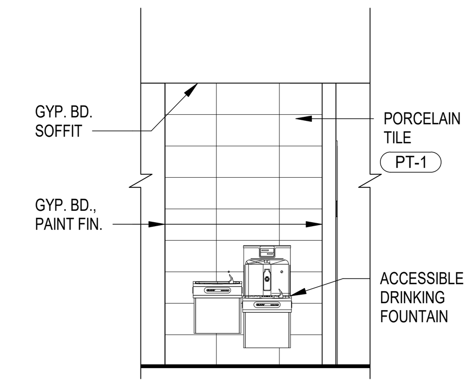
TOILET WALL PATTERN 3
SCALE 1/4" = 1'-0"



GENDER NEUTRAL RESTROOM 105
SCALE: 1/4"=1'-0"



JANITOR 102
SCALE: 1/4"=1'-0"

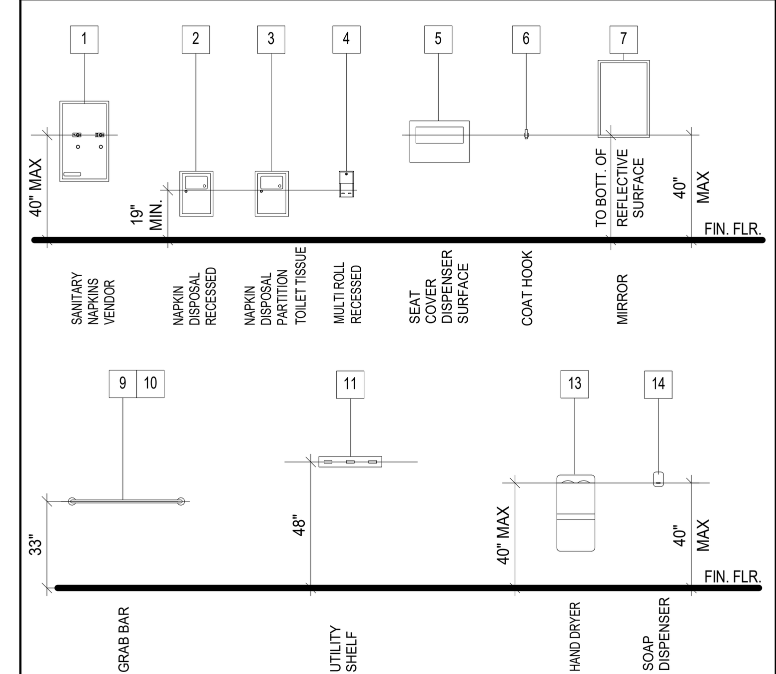


DRINKING FOUNTAIN 100
SCALE: 1/4"=1'-0"

TOILET ROOM ACCESSORY KEYNOTES

1. SANITARY NAPKIN VENDOR, 25 CENT COIN OPERATION, SEMI-RECESSED
2. SANITARY NAPKIN DISPOSAL, RECESSED
3. SANITARY NAPKIN DISPOSAL, PARTITION MOUNTED (SERVES 2 COMPARTMENTS)
4. TOILET TISSUE DISPENSER, RECESSED MULTI-ROLL
5. SEAT COVER DISPENSER, SURFACE MOUNTED
6. COAT HOOK
7. MIRROR, STAINLESS STEEL FRAMED, 24" X 36"
8. MIRROR, FULL WIDTH, FRAMELESS STAINLESS STEEL
9. GRAB BAR
10. GRAB BAR, L-SHAPED
11. UTILITY SHELF WITH MOP AND BROOM HOLDER
12. UNDERLAVATORY GUARDS, MOLDED VINYL COVERING FOR SUPPLY AND DRAIN PIPING WITH FLIP TOPS AT VALVE TO ALLOW SERVICE ACCESS WITHOUT REMOVING COVERINGS
13. ELECTRIC HAND DRYER
14. SOAP DISPENSER, VERTICAL TANK, SURFACE MOUNTED, OFCI
15. HOSE BIBB PER PLUMBING DRAWINGS
16. FLOOR MOUNTED SERVICE SINK PER PLUMBING DRAWINGS
17. GAS WATER HEATER PER PLUMBING DRAWINGS
18. ROOF ACCESS LADDER

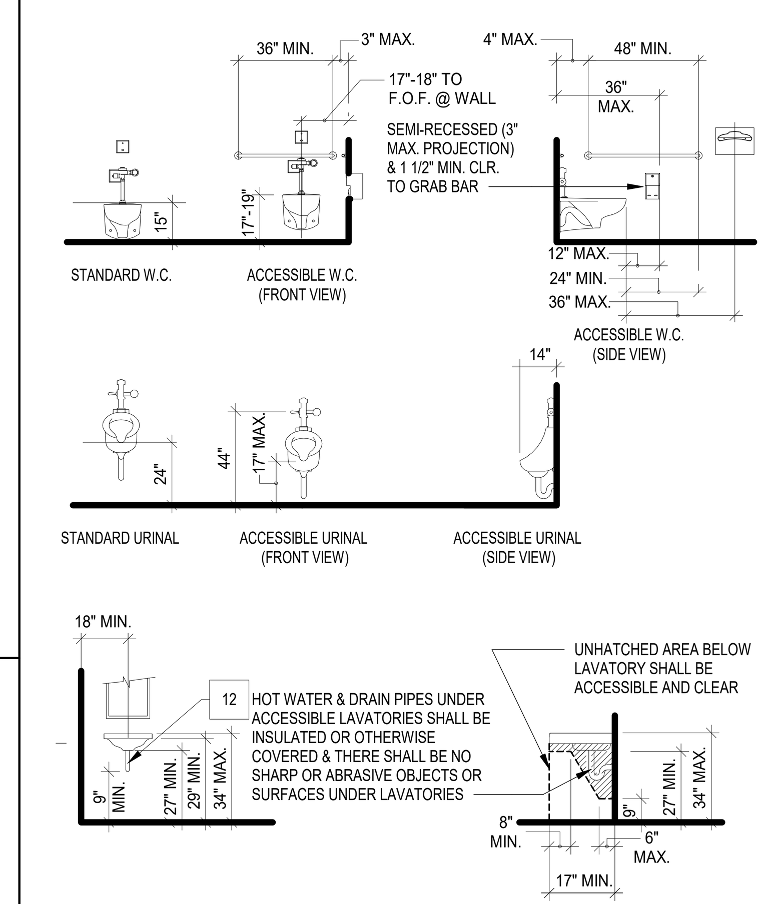
TOILET RM. ACCESSORY MOUNTING HEIGHTS



NOTES:

1. MOUNTING HEIGHTS SHOWN ARE TYPICAL, UNLESS OTHERWISE NOTED.
2. ALL ACCESSORIES SHALL BE ACCESSIBLE WITH A MAXIMUM REACH HEIGHT OF 40" ABOVE FINISH FLOOR.
3. SLOPE FLOORS 1/8" PER FOOT MINIMUM AND 1/4" PER FOOT MAXIMUM, UNLESS NOTED OTHERWISE.
4. SEE ENLARGED TOILET PLAN AND INTERIOR ELEVATION DRAWINGS FOR TOILET ACCESSORY LOCATIONS
5. OWNER FURNISHED ACCESSORIES SHALL BE CONTRACTOR INSTALLED
6. PROVIDE BACKING FOR GRAB BARS AND SHELVES PER 1/6.01

PLUMBING FIXTURE MOUNTING HEIGHTS



PLUMBING FIXTURE / ACCESSORIES CLEARANCES TO FINISHED SURFACE

	ADULT	
TOILET CENTERLINE FROM WALL	18"	
TOILET SEAT HEIGHT (AT SEAT LID)	17"-19"	
GRAB BAR HEIGHT (SIDE)	33"	
TOILET PAPER IN FRONT OF TOILET	12" MAX.	
NAPKIN DISPOSAL IN FRONT OF TOILET	12" MAX.	
DISPENSER OR MIRROR HEIGHT	40" MAX.	
LAVATORY/SINK TOP HEIGHT	34" MAX.	
LAVATORY/SINK KNEE CLEARANCE	29" MAX.	
URINAL LIP HEIGHT	17" MAX.	
URINAL FLUSH HANDLE HEIGHT	44" MAX.	
DRINKING FOUNTAIN BUBBLER HEIGHT	36" MAX.	
DRINKING FOUNTAIN KNEE CLEARANCE	27" MIN.	
RAMP/STAIR HANDRAIL HEIGHT	34"-38"	

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1111 E. ARTESIA BLVD.
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owner

tBP project number: 20987.00

file name: CC_SS_Central.RVT

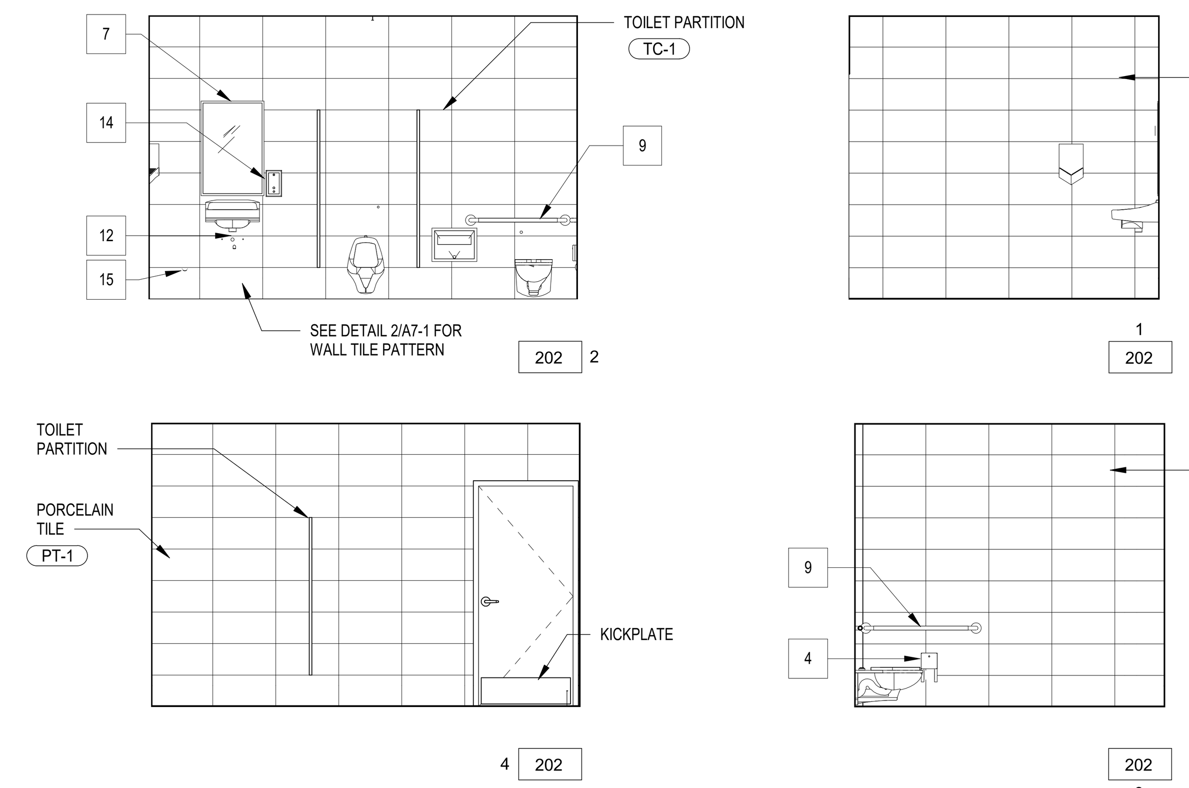
drawn by: Z. WEN checked by: T. HALL

date: 9.3.2019

rev:	date:	description:

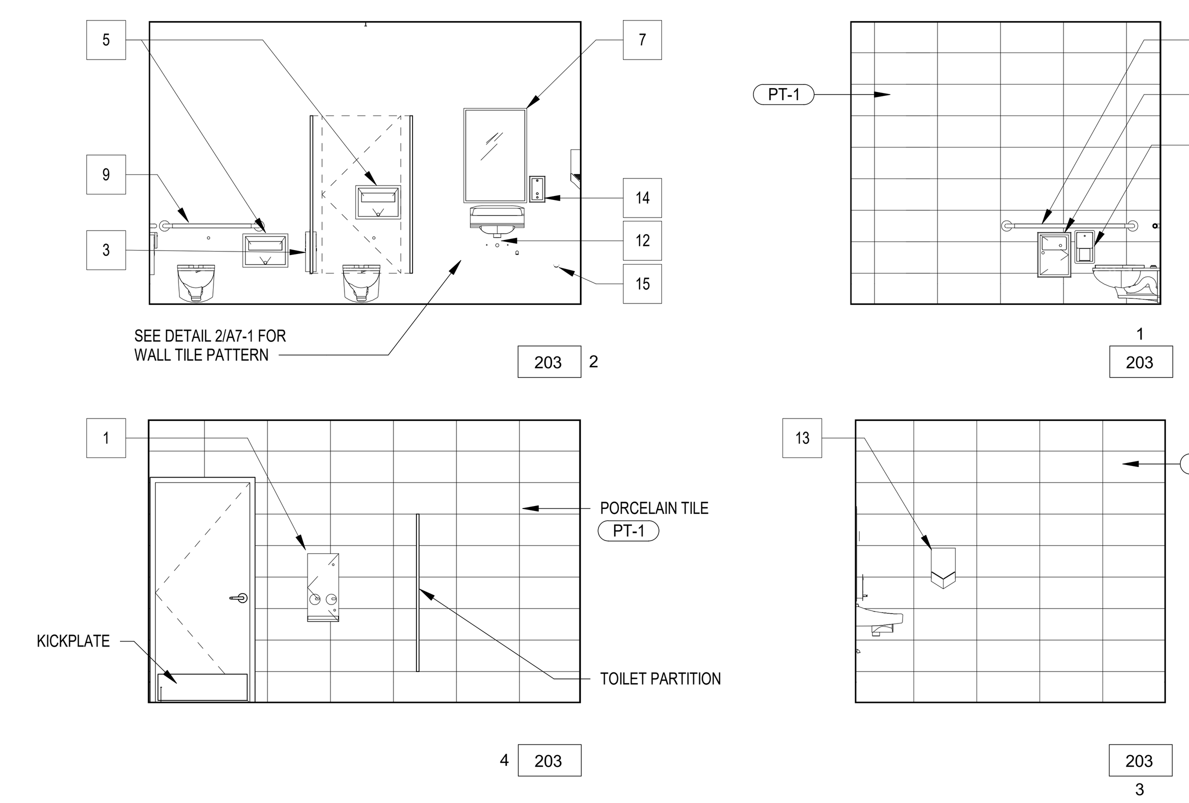
drawing title:
ENLARGED TOILET RM. PLANS & ELEVS. - 1ST FLR

drawing no.:
A7-1



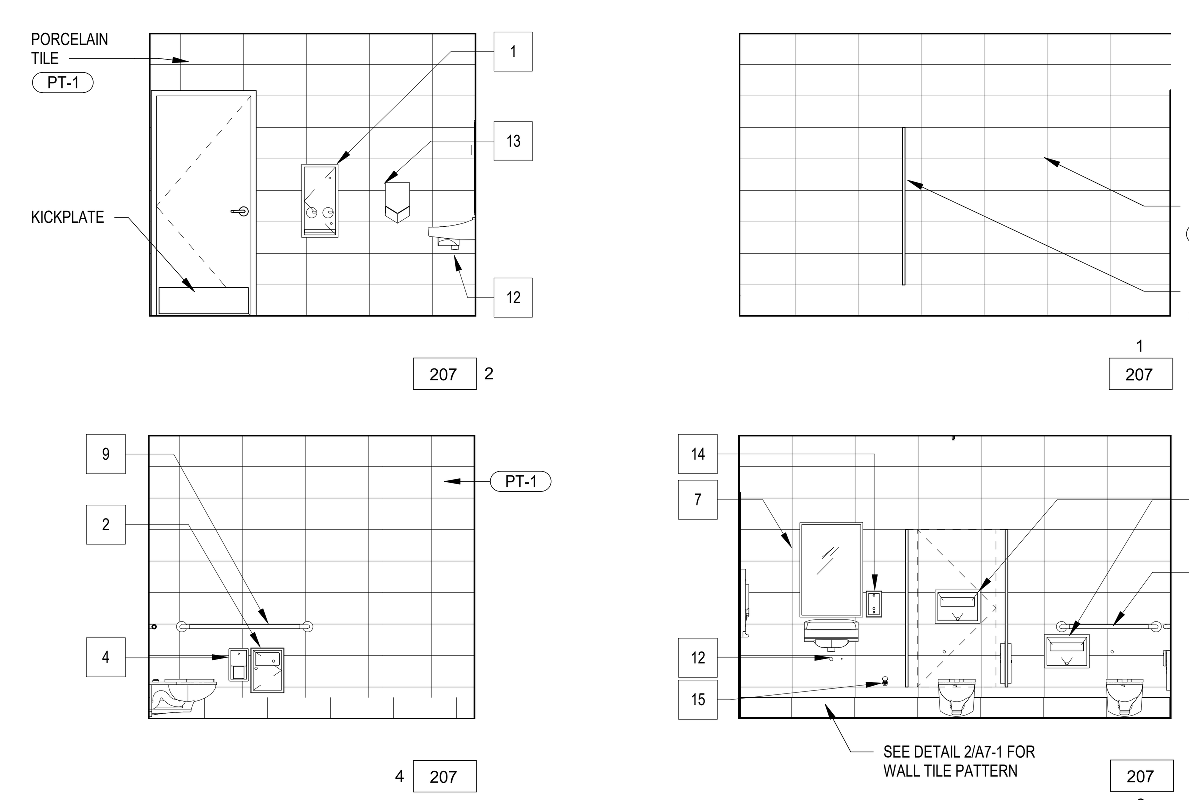
NOTE: SEE PLUMBING FIXTURE & TOILET RM. ACCESSORY MOUNTING HEIGHT SCHEDULES ON THIS SHEET FOR ADTL. REQUIREMENTS

MEN'S RESTROOM 202
SCALE: 1/4"=1'-0"



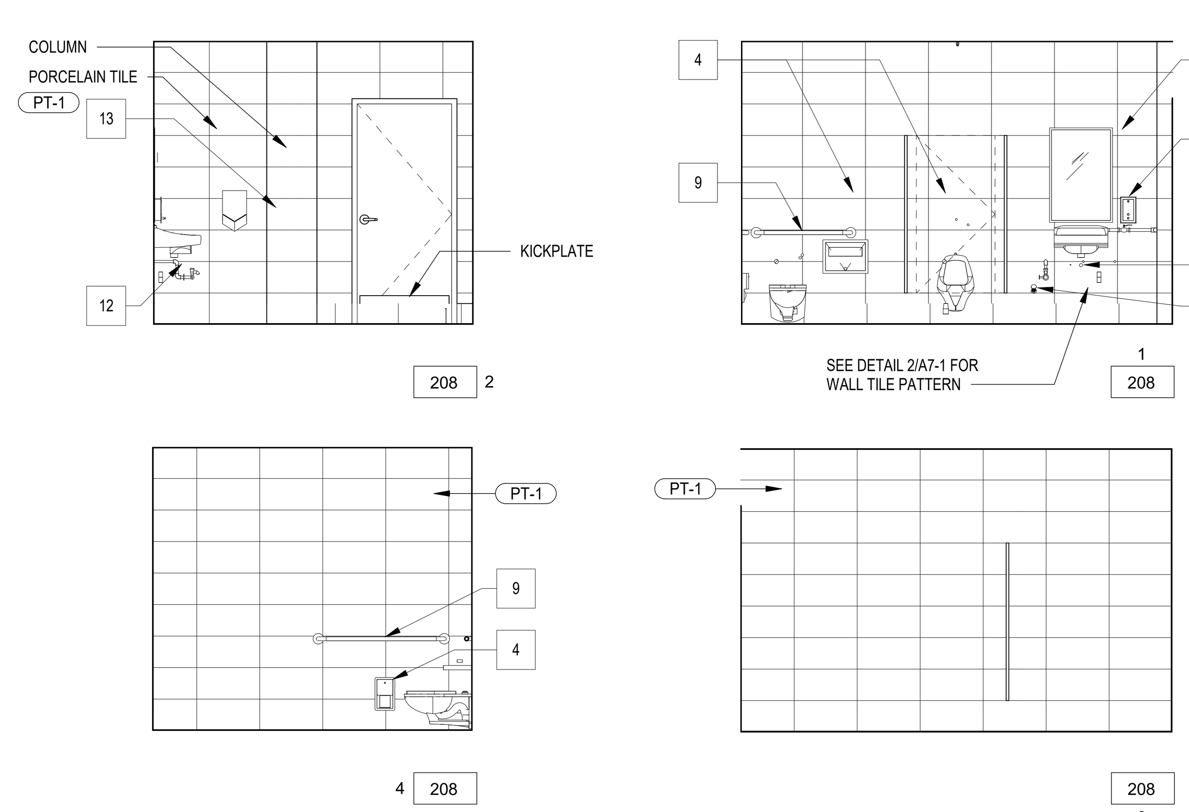
NOTE: SEE PLUMBING FIXTURE & TOILET RM. ACCESSORY MOUNTING HEIGHT SCHEDULES ON THIS SHEET FOR ADTL. REQUIREMENTS

WOMEN'S RESTROOM 203
SCALE: 1/4"=1'-0"



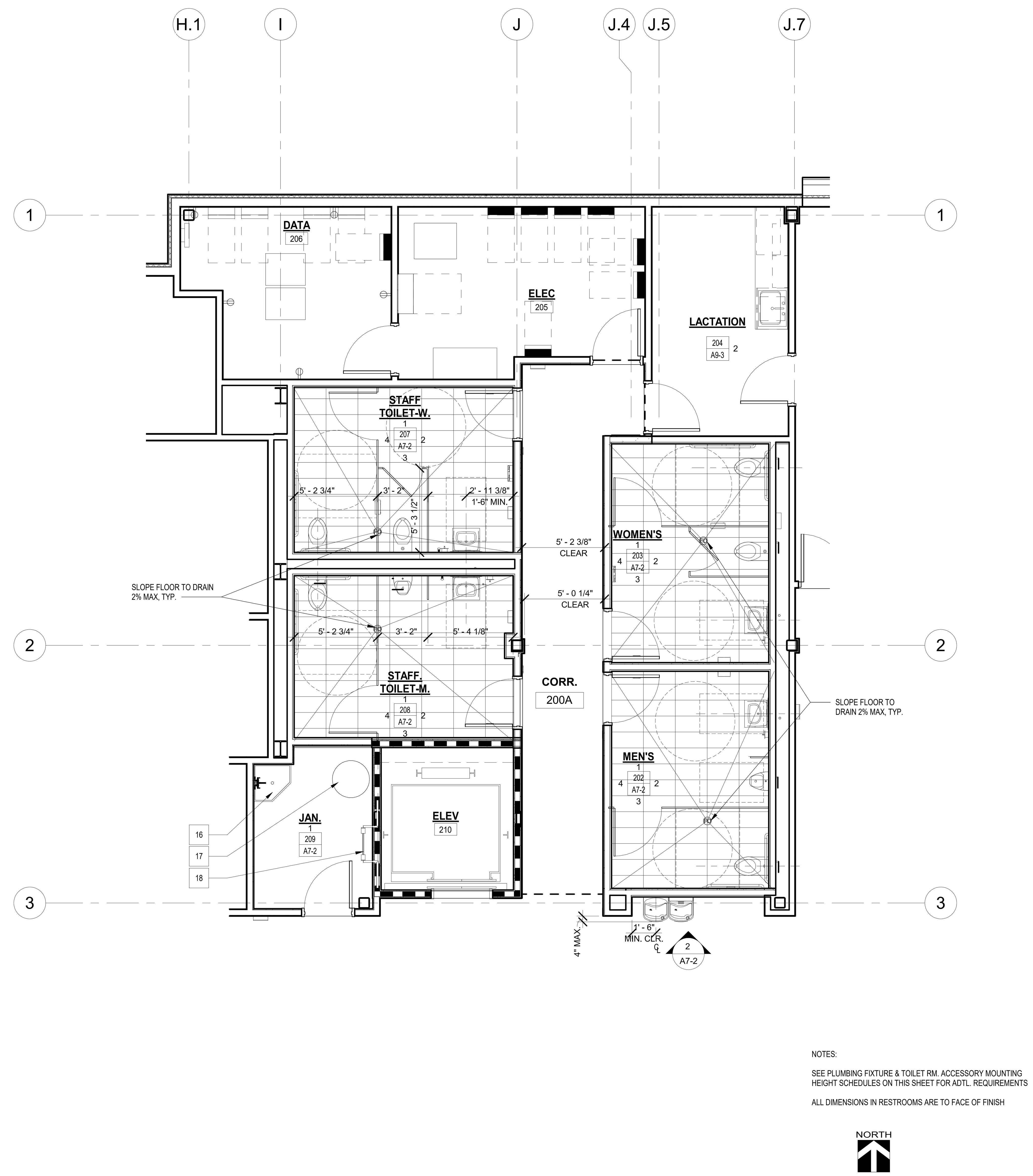
NOTE: SEE PLUMBING FIXTURE & TOILET RM. ACCESSORY MOUNTING HEIGHT SCHEDULES ON THIS SHEET FOR ADTL. REQUIREMENTS

STAFF TOILET - WOMEN 207
SCALE: 1/4"=1'-0"



NOTE: SEE PLUMBING FIXTURE & TOILET RM. ACCESSORY MOUNTING HEIGHT SCHEDULES ON THIS SHEET FOR ADTL. REQUIREMENTS

STAFF TOILET - MEN 208
SCALE: 1/4"=1'-0"

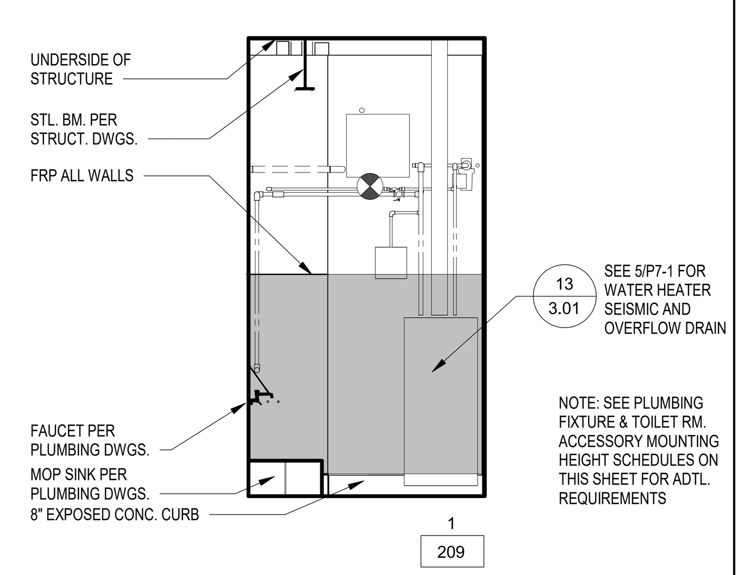


NOTES:

SEE PLUMBING FIXTURE & TOILET RM. ACCESSORY MOUNTING HEIGHT SCHEDULES ON THIS SHEET FOR ADTL. REQUIREMENTS

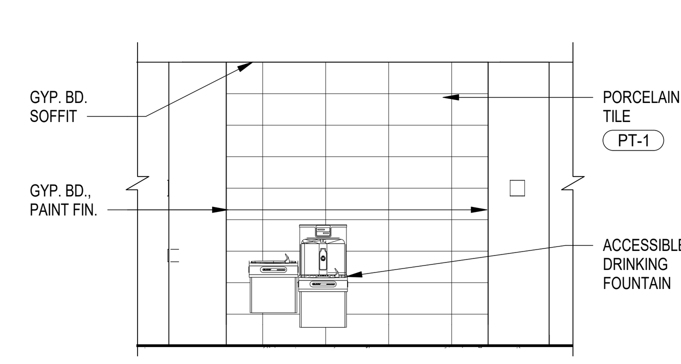
ALL DIMENSIONS IN RESTROOMS ARE TO FACE OF FINISH

ENLARGED TOILET PLAN - 2ND FLR 1
SCALE 1/4" = 1'-0"



NOTE: SEE PLUMBING FIXTURE & TOILET RM. ACCESSORY MOUNTING HEIGHT SCHEDULES ON THIS SHEET FOR ADTL. REQUIREMENTS

JANITOR 209
SCALE: 1/4"=1'-0"



NOTE: SEE PLUMBING FIXTURE & TOILET RM. ACCESSORY MOUNTING HEIGHT SCHEDULES ON THIS SHEET FOR ADTL. REQUIREMENTS

CORRIDOR DRINKING FOUNTAIN 2
SCALE: 1/4"=1'-0"

TOILET ROOM ACCESSORY KEYNOTES

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3. SANITARY NAPKIN DISPOSAL, PARTITION MOUNTED (SERVES 2 COMPARTMENTS)
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5. SEAT COVER DISPENSER, SURFACE MOUNTED
6. COAT HOOK
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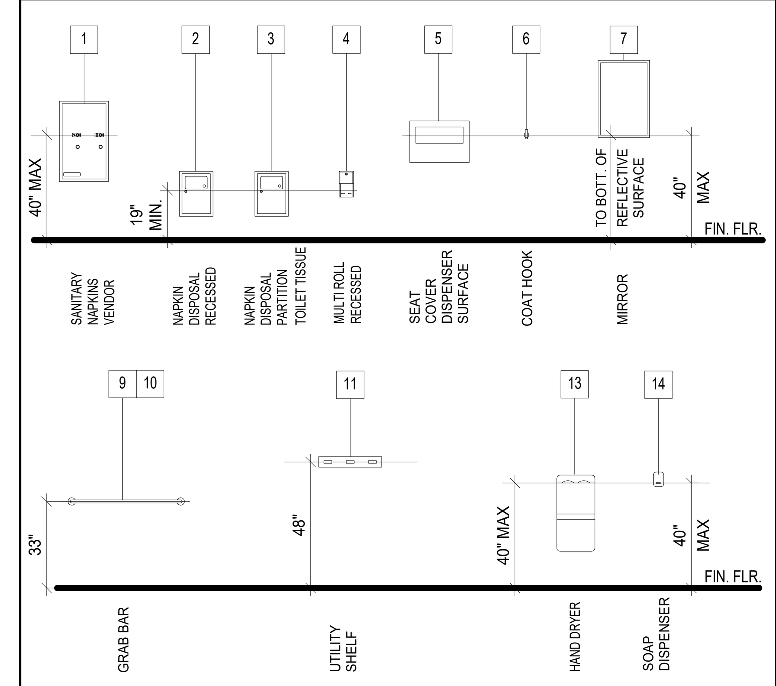
8. MIRROR, FULL WIDTH, FRAMELESS STAINLESS STEEL
9. GRAB BAR
10. GRAB BAR, L-SHAPED
11. UTILITY SHELF WITH MOP AND BROOM HOLDER
12. UNDERLAVATORY GUARDS, MOLDED VINYL COVERING FOR SUPPLY AND DRAIN PIPING WITH FLIP TOPS AT VALVE TO ALLOW SERVICE ACCESS WITHOUT REMOVING COVERINGS
13. ELECTRIC HAND DRYER
14. SOAP DISPENSER, VERTICAL TANK, SURFACE MOUNTED, OFCI
15. HOSE BIBB PER PLUMBING DRAWINGS
16. FLOOR MOUNTED SERVICE SINK PER PLUMBING DRAWINGS
17. GAS WATER HEATER PER PLUMBING DRAWINGS
18. ROOF ACCESS LADDER

TOILET RM. ACCESSORY MOUNTING HEIGHTS



NOTES:

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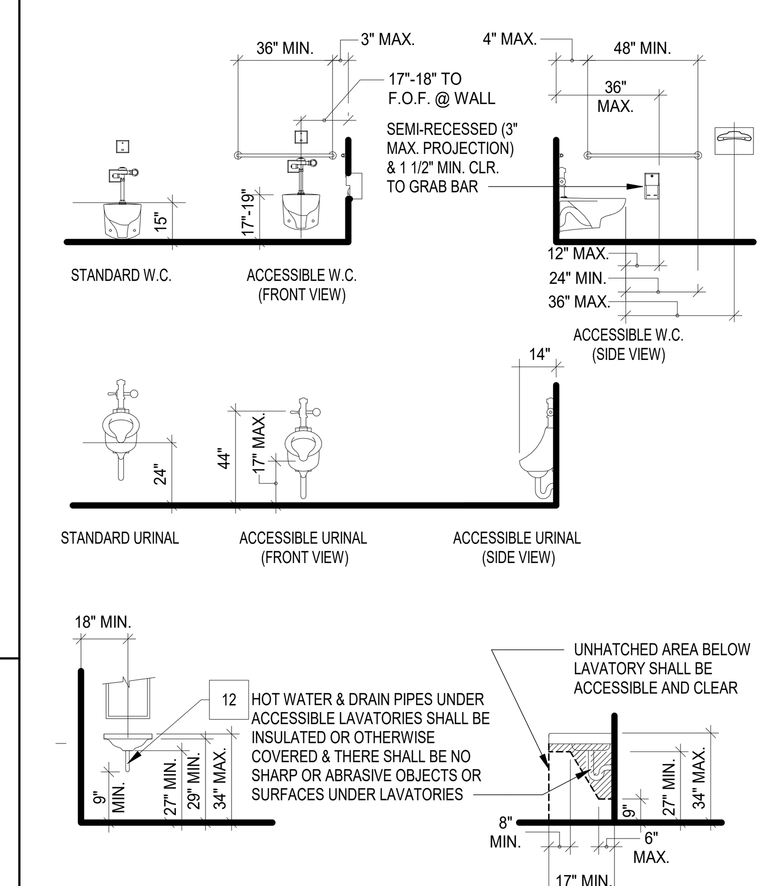
4. SEE ENLARGED TOILET PLAN AND INTERIOR ELEVATION DRAWINGS FOR TOILET ACCESSORY LOCATIONS
5. OWNER FURNISHED ACCESSORIES SHALL BE CONTRACTOR INSTALLED
6. PROVIDE BACKING FOR GRAB BARS AND SHELVES PER 1/6.01

PLUMBING FIXTURE MOUNTING HEIGHTS



PLUMBING FIXTURE / ACCESSORIES CLEARANCES TO FINISHED SURFACE

	ADULT	
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TOILET SEAT HEIGHT (AT SEAT LID)	17"-19"	
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DRINKING FOUNTAIN KNEE CLEARANCE	27" MIN.	
RAMP/STAIR HANDRAIL HEIGHT	34"-38"	

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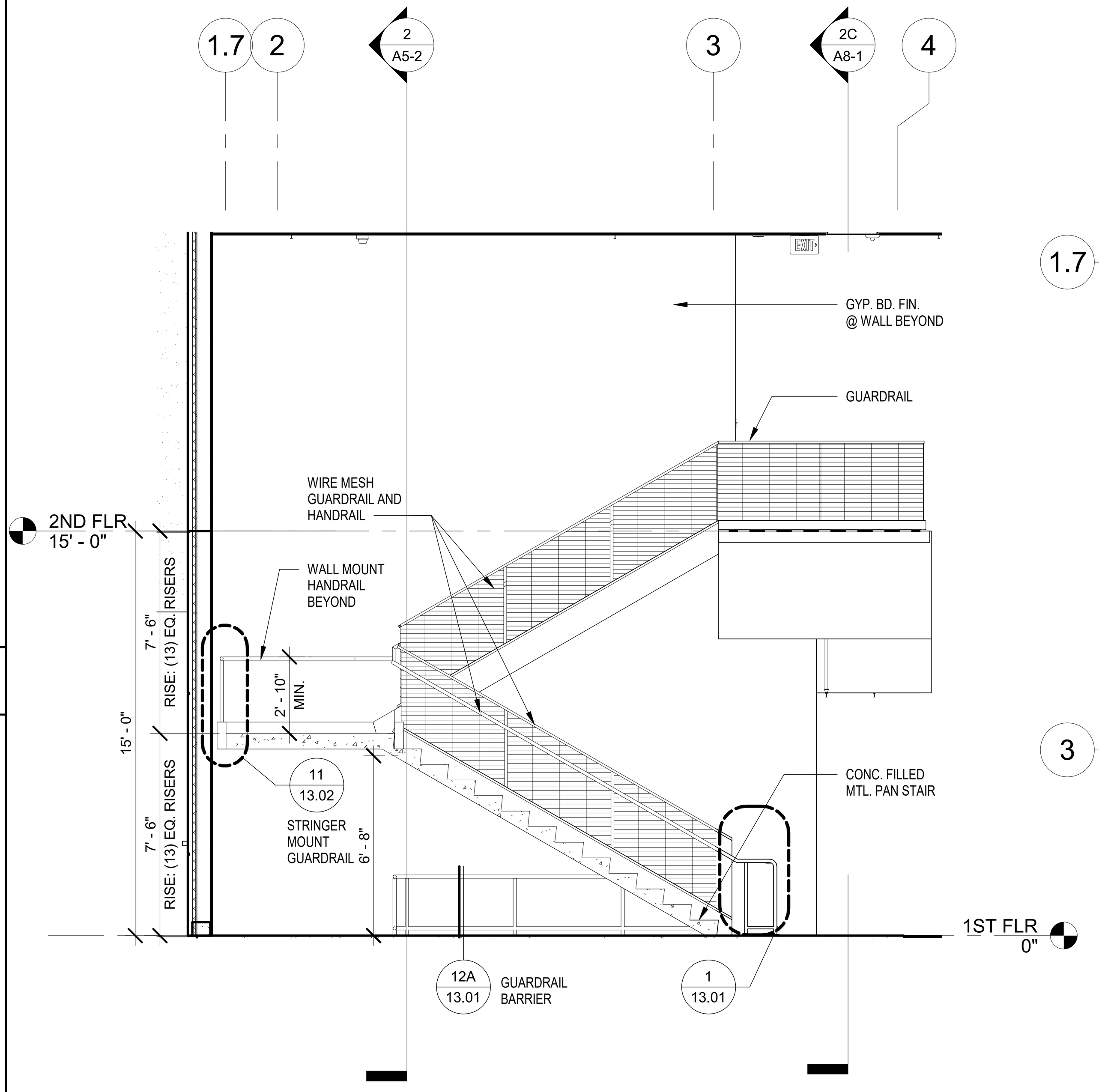
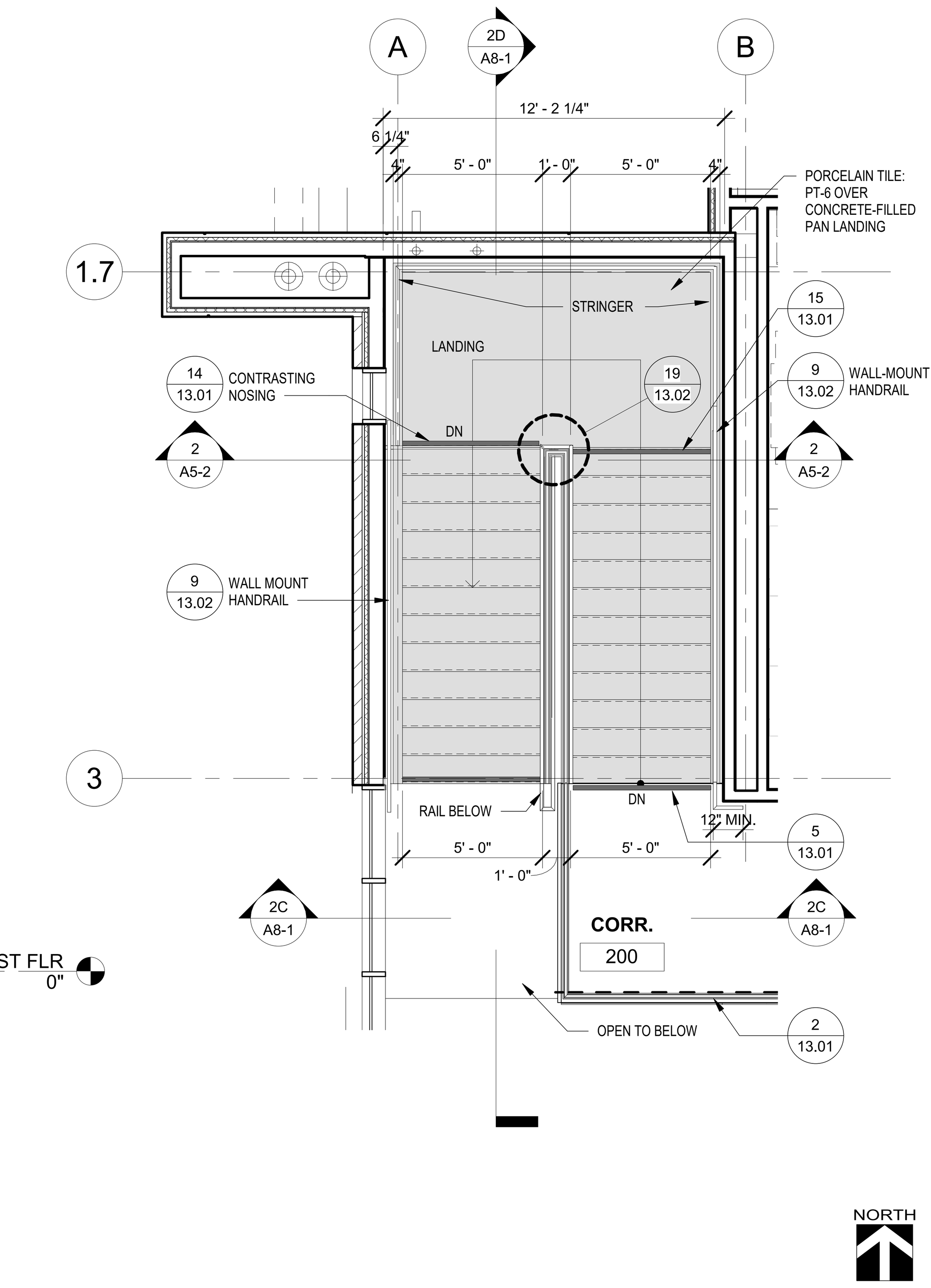
ENLARGED TOILET RM. PLANS & ELEVS. - 2ND FLR

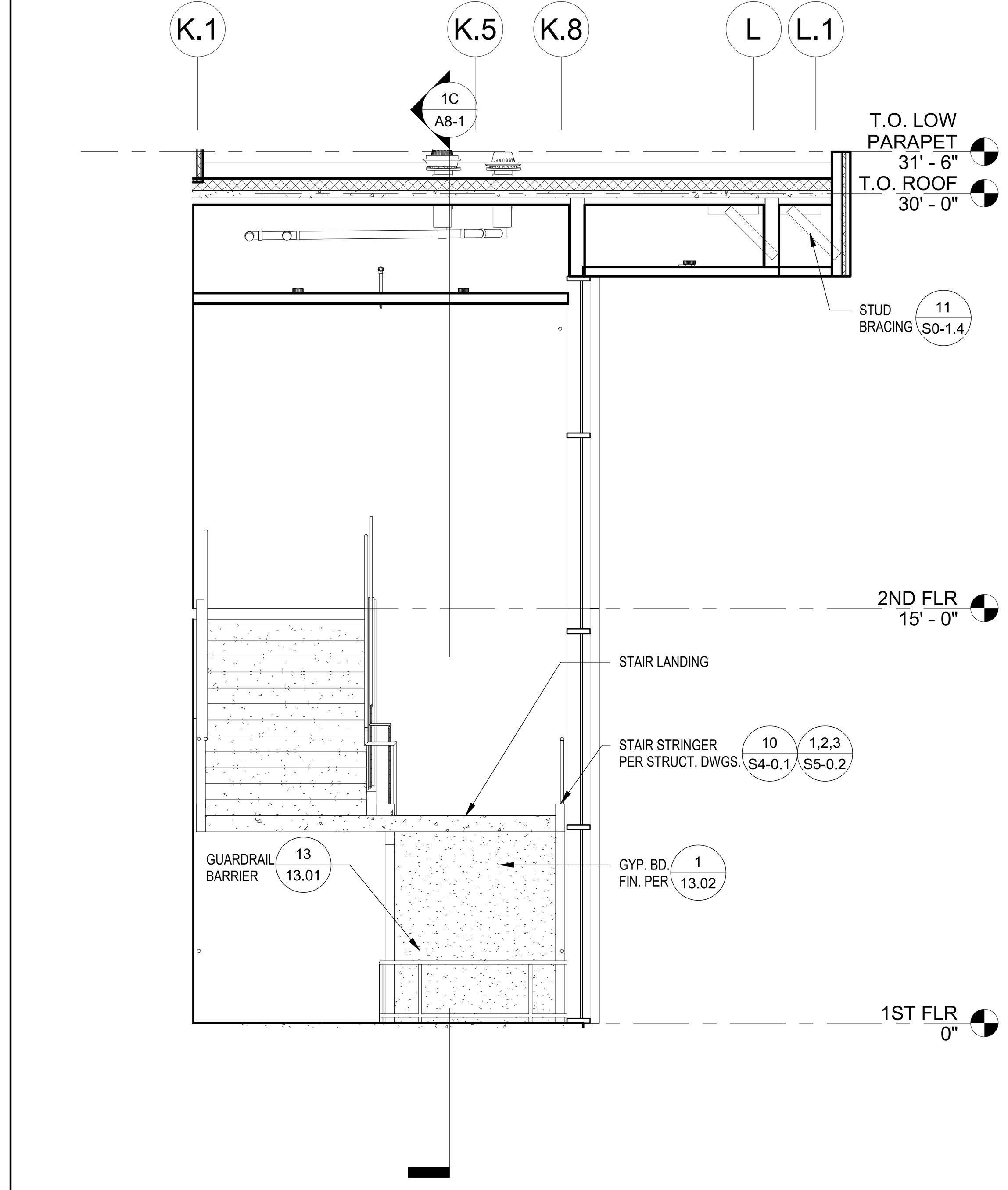
drawing no.:
A7-2



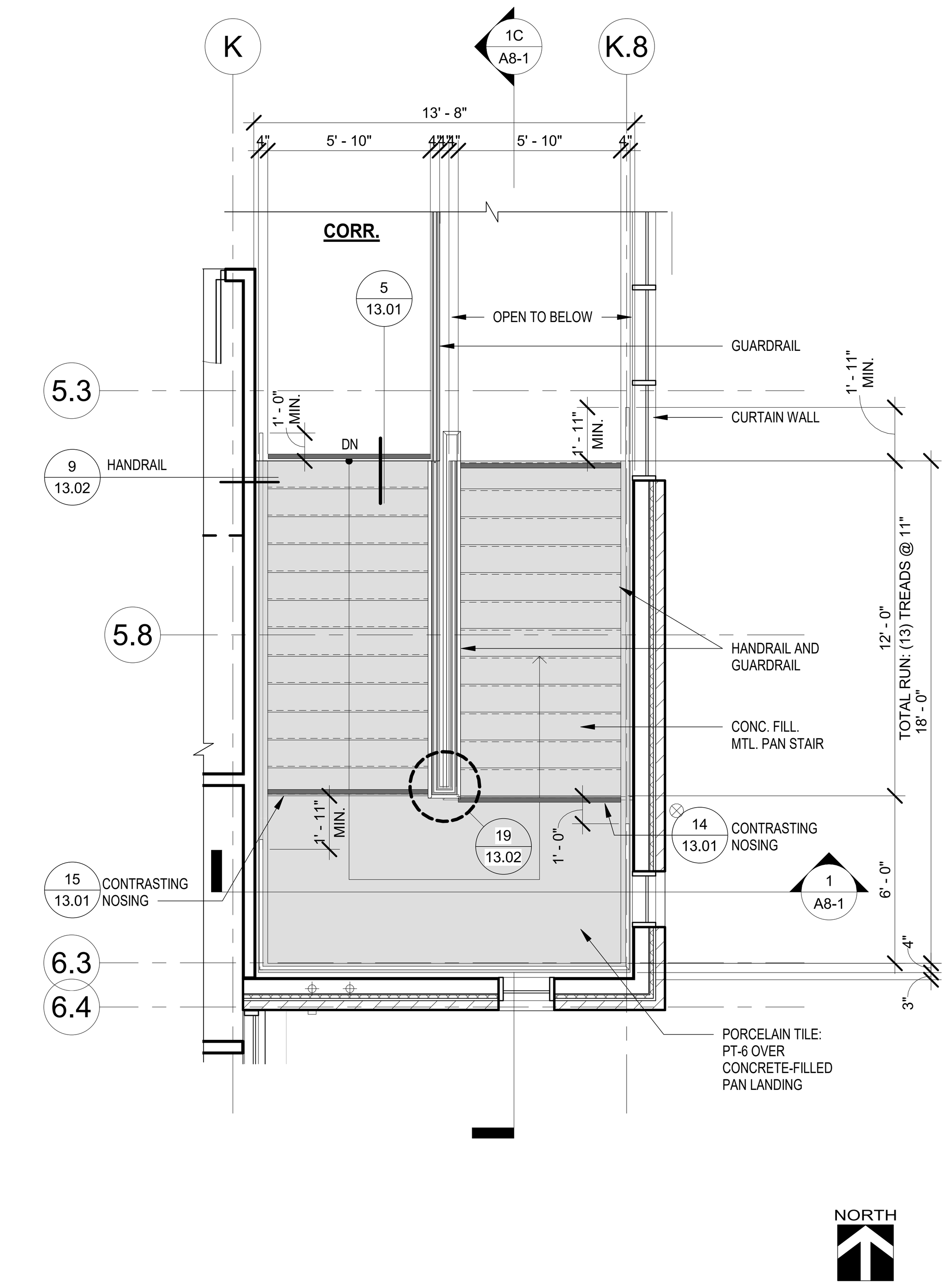
STAIR #2 SECTION 2D
SCALE 1/4" = 1'-0"



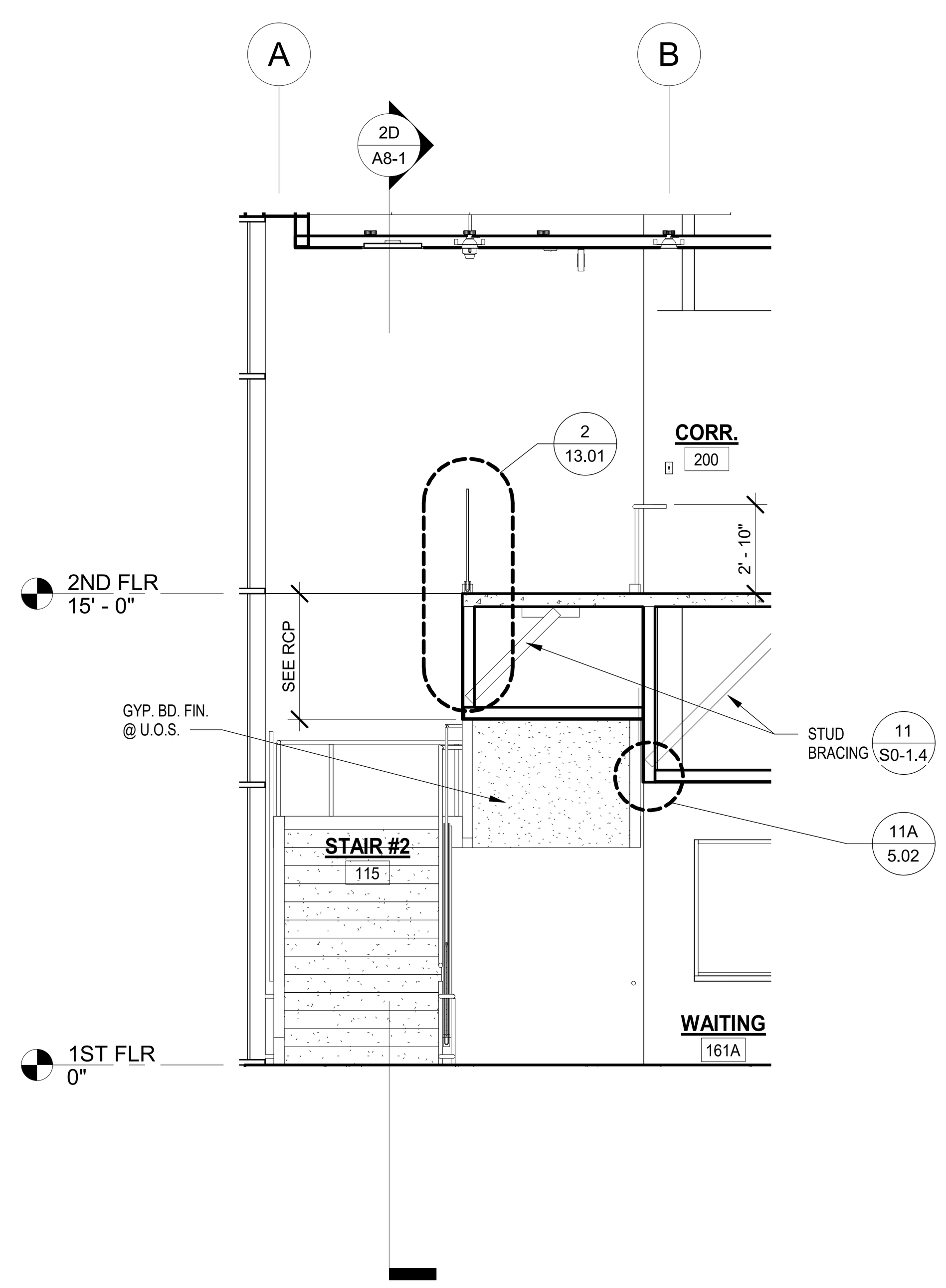
ENLARGED STAIR #2 PLAN - 2ND FLR 2B
SCALE 1/4" = 1'-0"



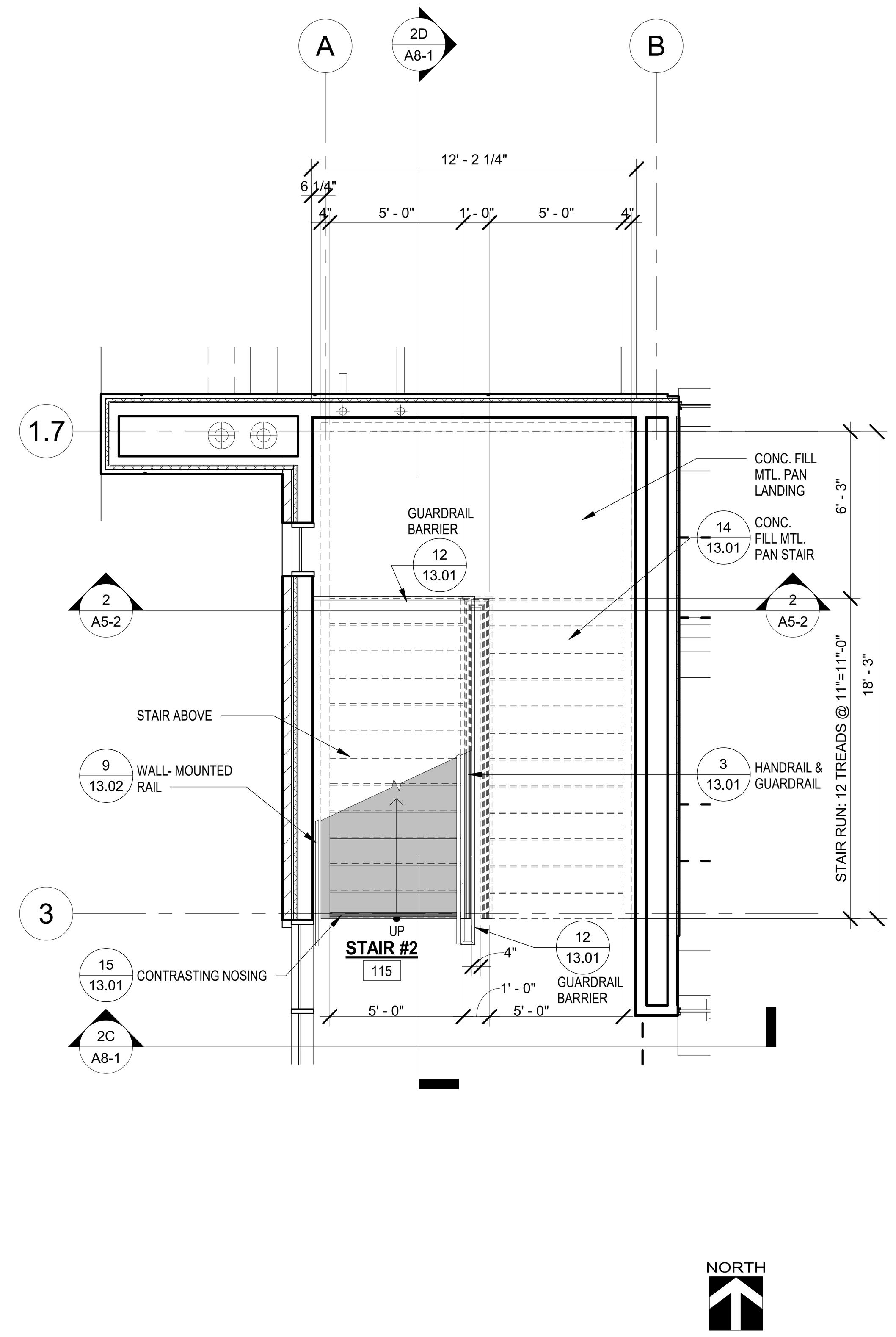
SECTION THRU STAIR #1 LANDING 1
SCALE 1/4" = 1'-0"



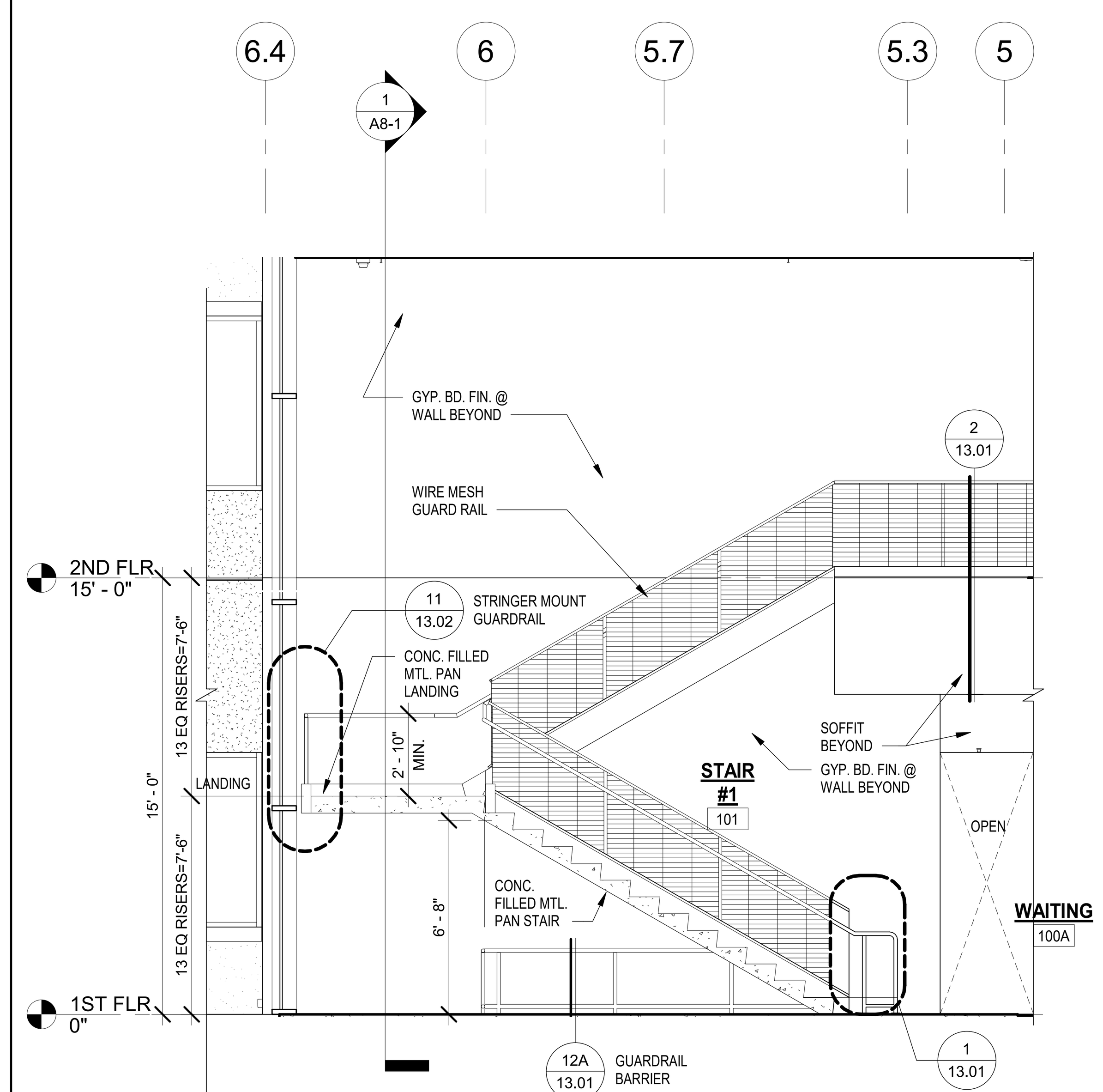
ENLARGED STAIR #1 PLAN - 2nd FLR 1B
SCALE 1/4" = 1'-0"



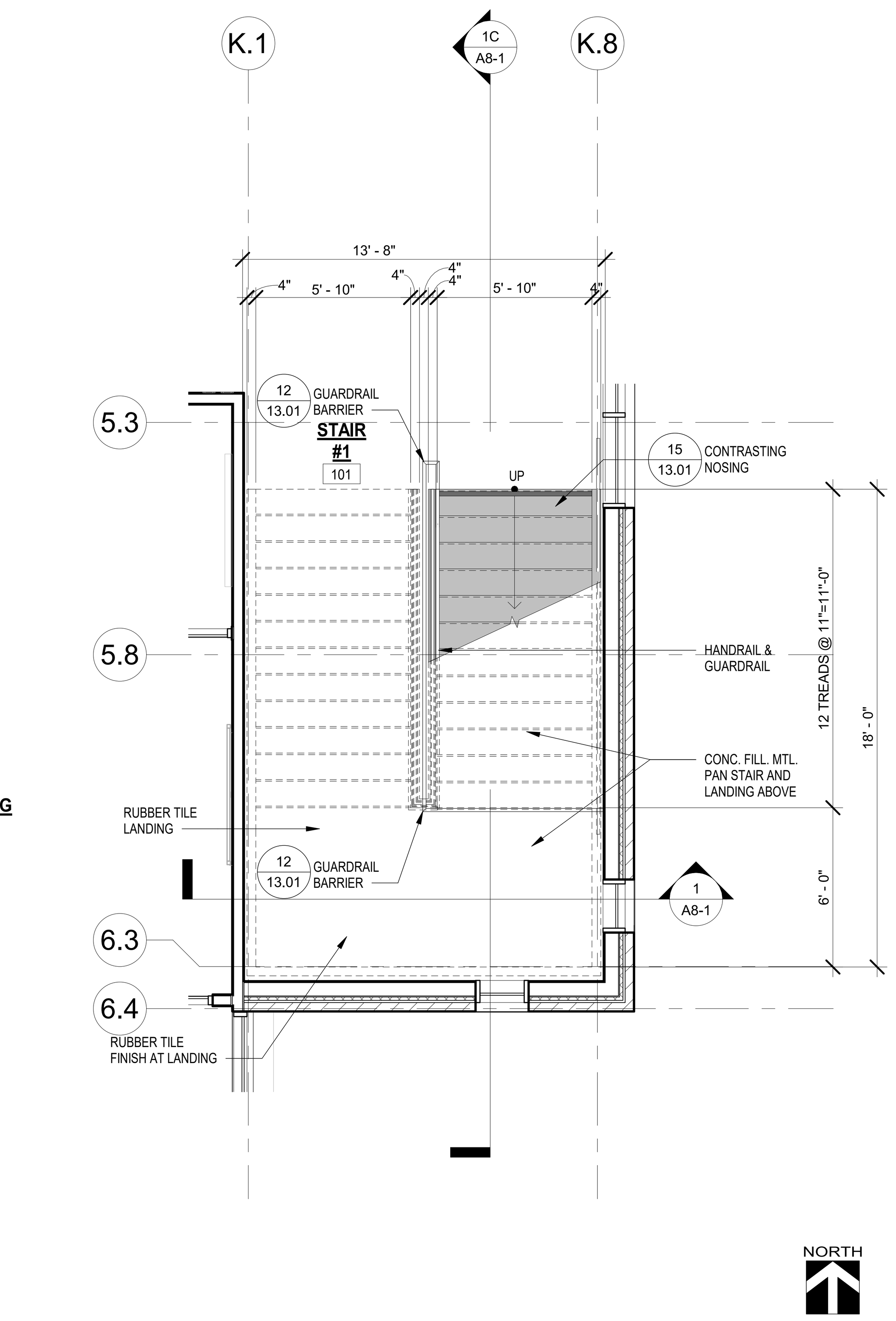
STAIR #2 UPPER LANDING SECTION 2C
SCALE 1/4" = 1'-0"



ENLARGED STAIR #2 PLAN - 1ST FLR 2A
SCALE 1/4" = 1'-0"



STAIR #1 SECTION 1C
SCALE 1/4" = 1'-0"



ENLARGED STAIR #1 PLAN - 1ST FLR 1A
SCALE 1/4" = 1'-0"

STAIR #2

STAIR #1

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owner

tBP project number: 20987.00

file name: CC_SS_Central.RVT

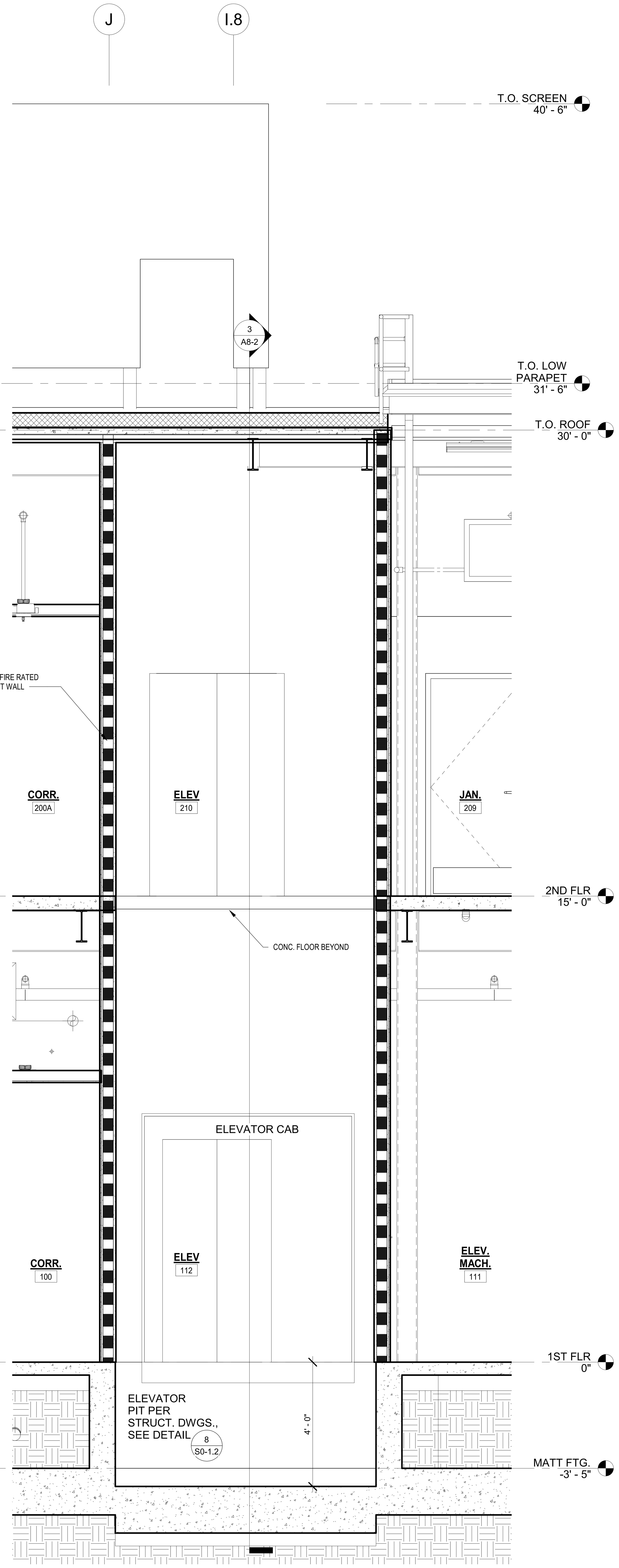
drawn by: Z. WEN checked by: T. HALL

date: 9.3.2019

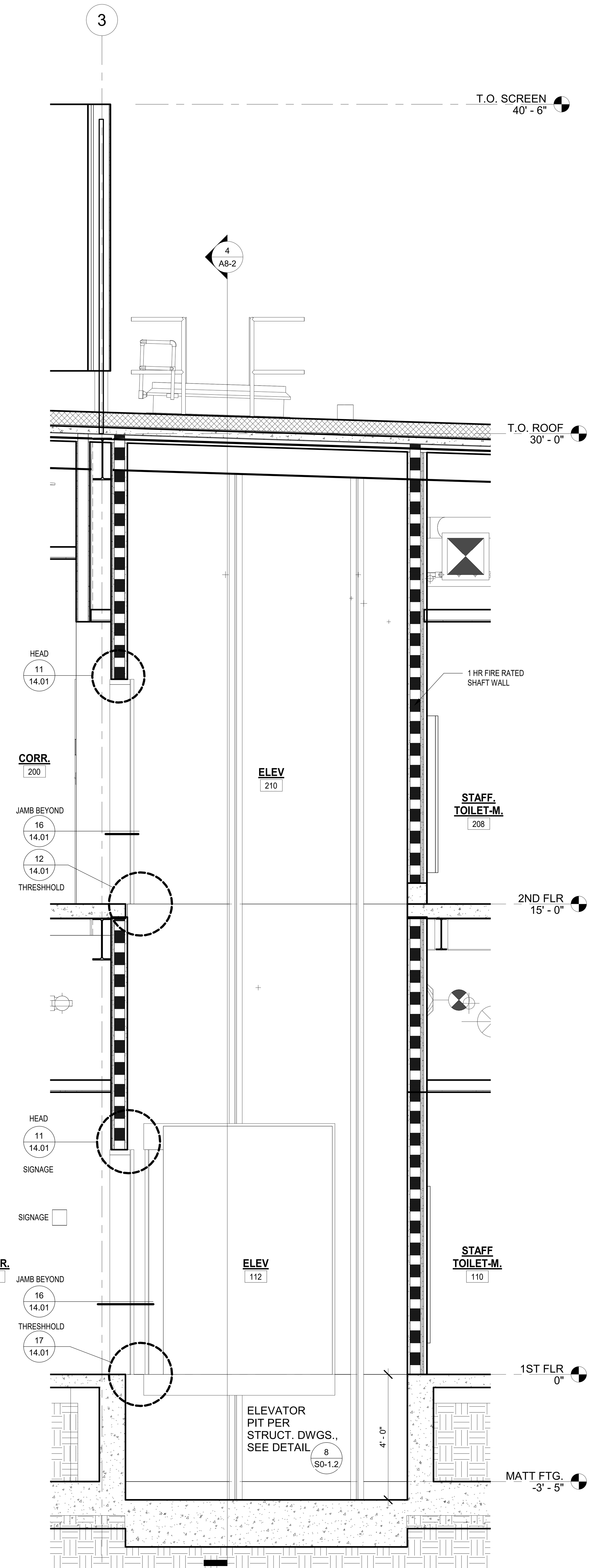
rev:	date:	description:

drawing title:
ENLARGED STAIR PLAN & SECTION

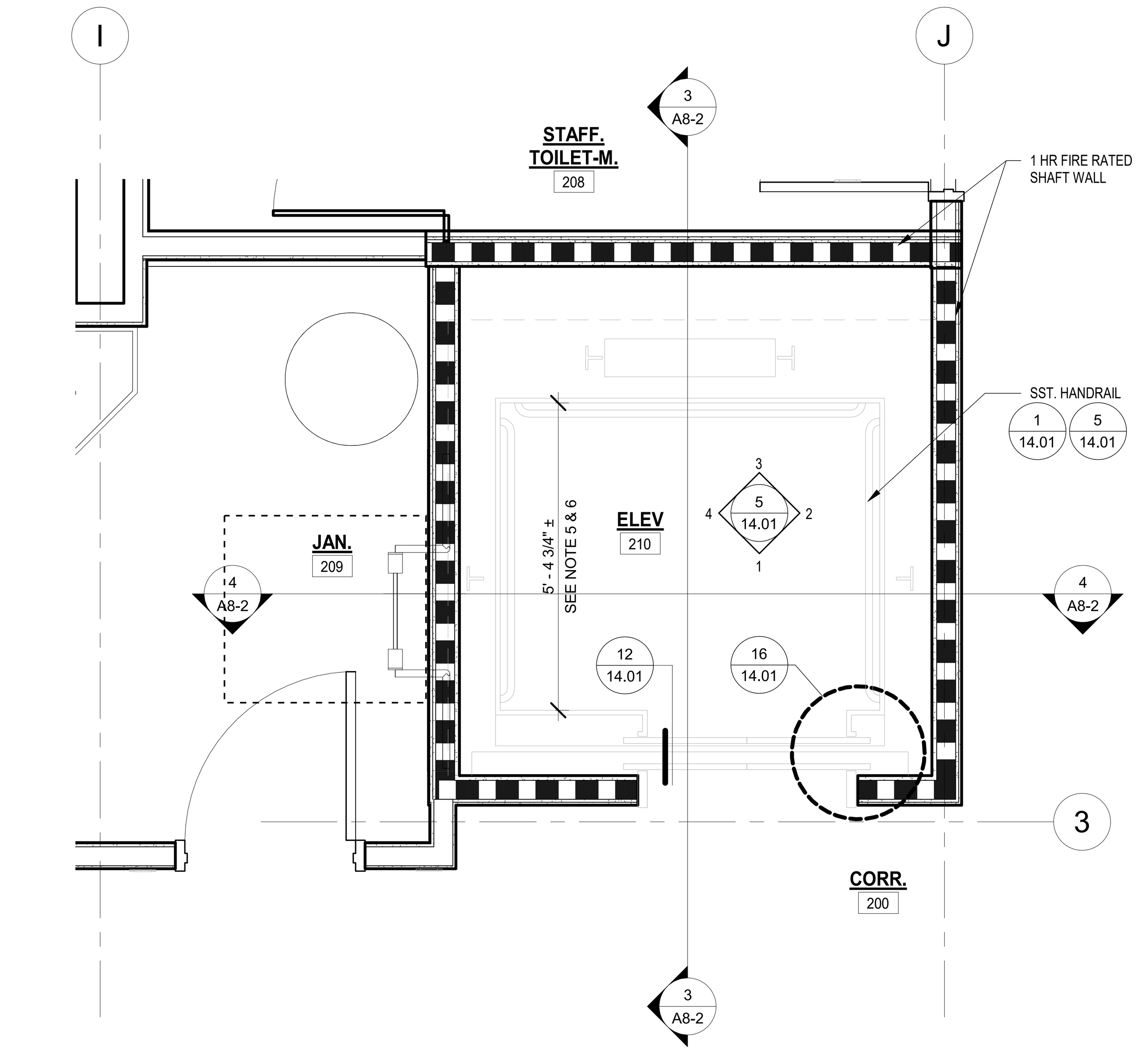
drawing no.:
A8-1



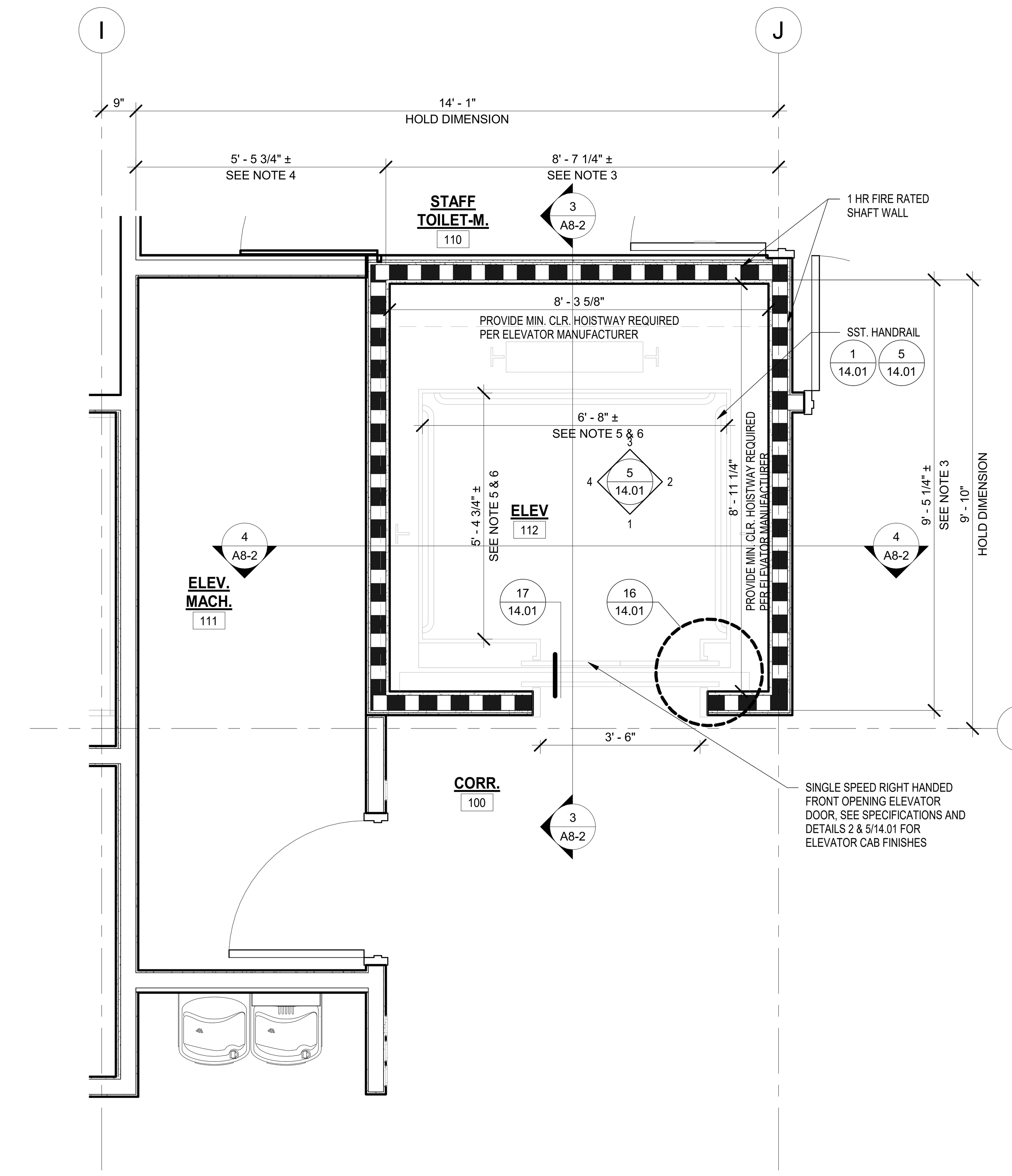
ELEVATOR SECTION 2 (4)
SCALE 1/2" = 1'-0"



ELEVATOR SECTION 1 (3)
SCALE 1/2" = 1'-0"



ENLARGED ELEVATOR PLAN - 2ND FLOOR (2)
SCALE 1/2" = 1'-0"



ENLARGED ELEVATOR PLAN 1ST FLOOR (1)
SCALE 1/2" = 1'-0"

NOTE:
1. DISTANCE OF ELEVATOR TO NEAREST STAIR SHALL NOT EXCEED 200 FEET, ACTUAL DISTANCE IS APPROXIMATELY 55'-0"
2. BASIS OF DESIGN:
MFR: THYSSEN KRUPP
MODEL: ENDURA AMEE 35 HLS
DESCRIPTION: TWIN-POST, ABOVE-GROUND TELESCOPIC 2 STAGE HYDRAULIC ELEVATOR
3. PROVIDE DIMENSION PER ELEVATOR MANUFACTURER REQUIRED HOISTWAY DIMENSION.
4. DIMENSION VARIES BY ELEVATOR MANUFACTURER REQUIRED HOISTWAY DIMENSION.
5. ELEVATOR CAB TO ACCOMODATE 24"x84" STRETCHER USE.
6. ACTUAL CAB DIMENSION VARIES BY ELEVATOR MANUFACTURER.
7. REFER TO A1-1 AND A1-2 FLOOR PLANS FOR PARTITION TYPES.
8. REFER TO DETAIL 3/ 14.01 FOR ELEVATOR CONTROLS AND SIGNAGE.
9. REFER TO ELEVATOR GENERAL NOTES 20/ 14.01.
10. ELEVATOR HOISTWAYS SHALL EITHER BE CONSTRUCTED OF NONCOMBUSTIBLE MATERIALS, OR THE SIDES OF THE HOISTWAY FACING THE ELEVATOR CAB SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25 AND A MAXIMUM SMOKE DEVELOPING RATING OF 50.

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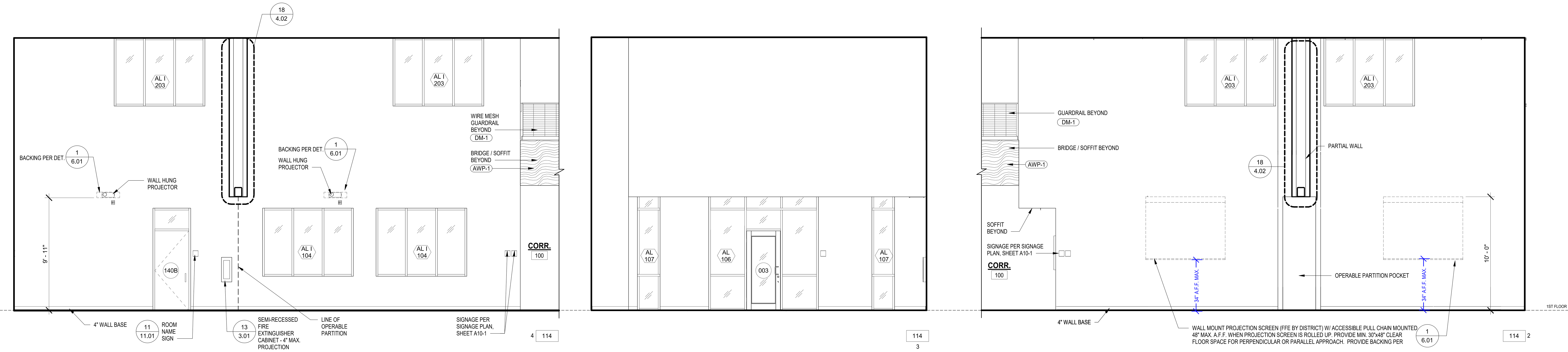
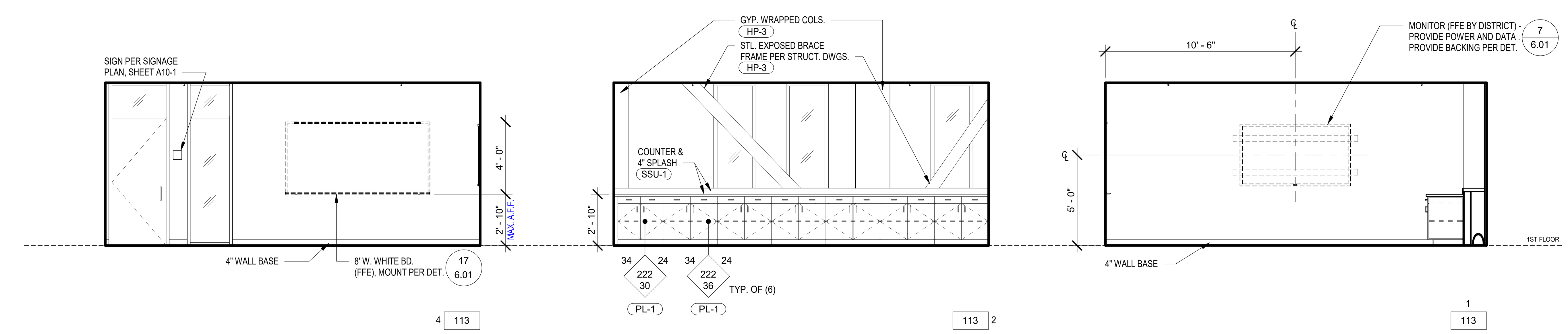
drawing title:
ENLARGED ELEVATOR PLAN & SECTIONS

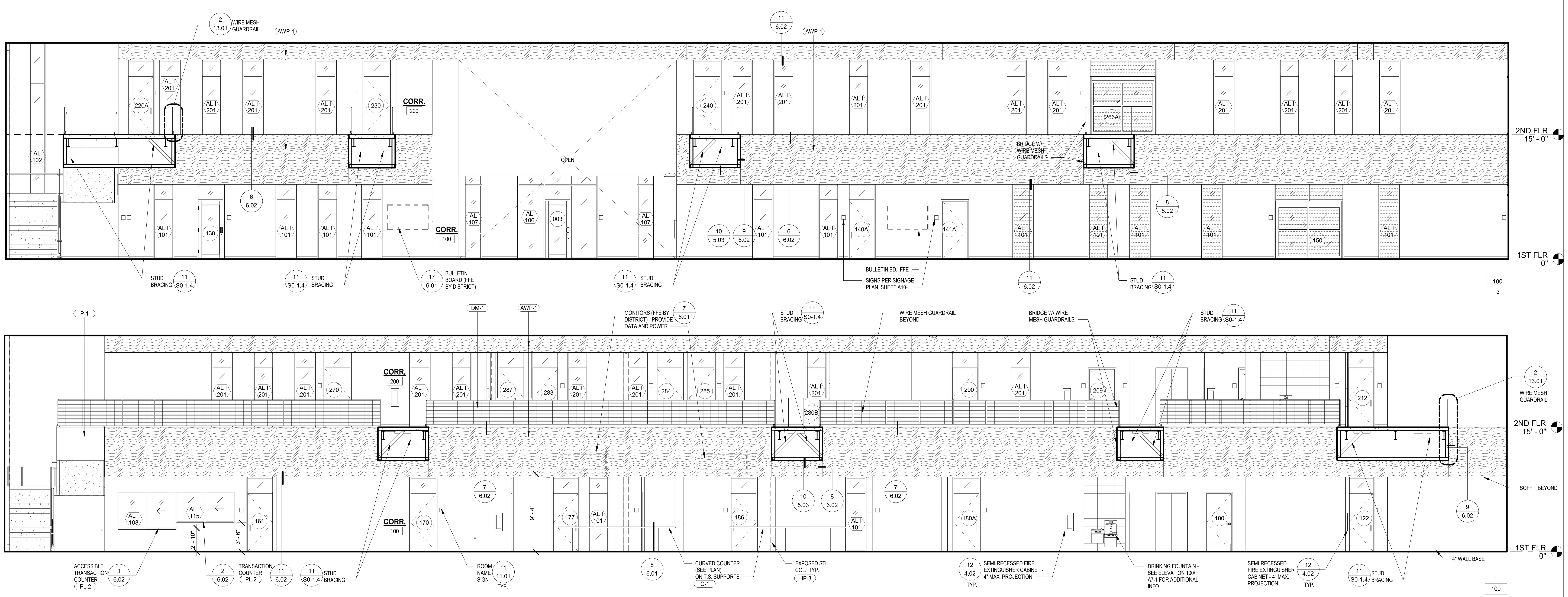
drawing no.:
A8-2



COMPUTER LAB 114
SCALE: 1/4"=1'-0"



CONFERENCE 113
SCALE: 1/4"=1'-0"



CORRIDOR 100, 200
SCALE: 3/16"=1'-0"

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A9-1

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drawing no.:
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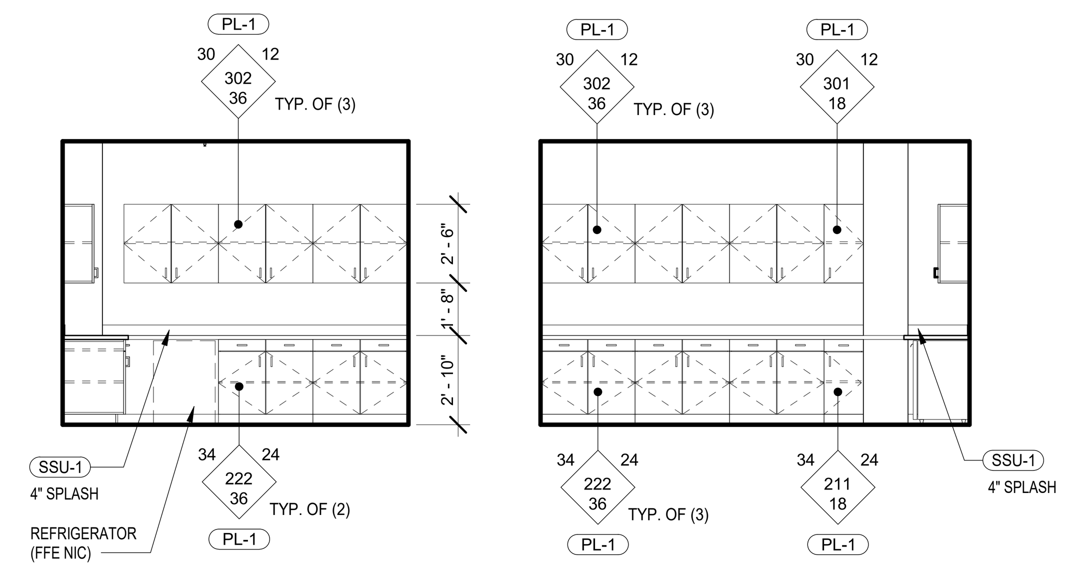
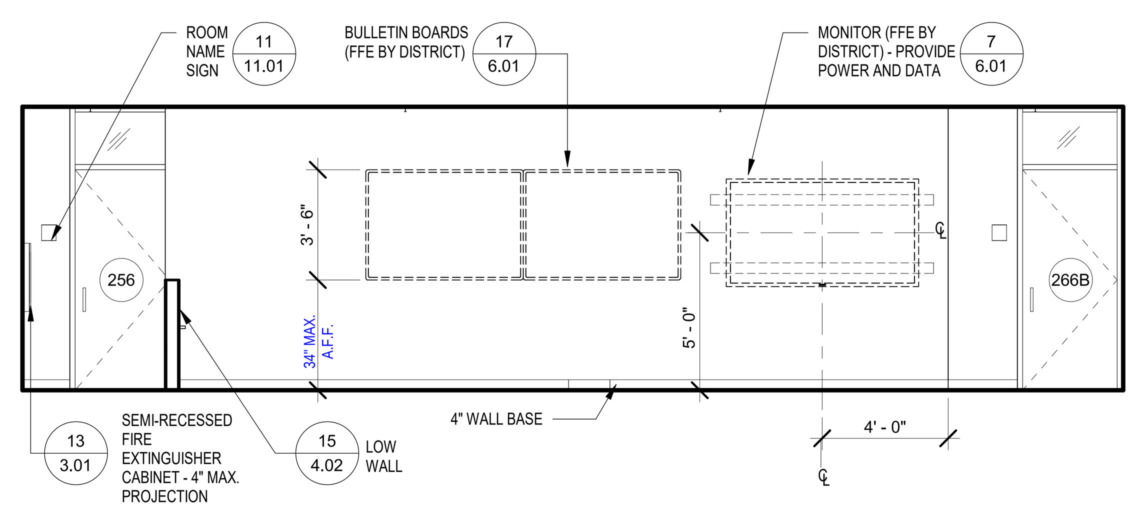
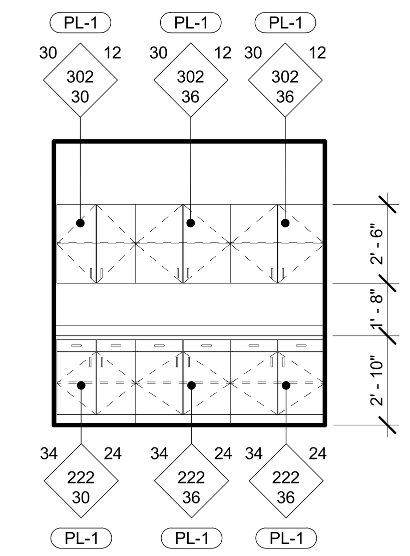


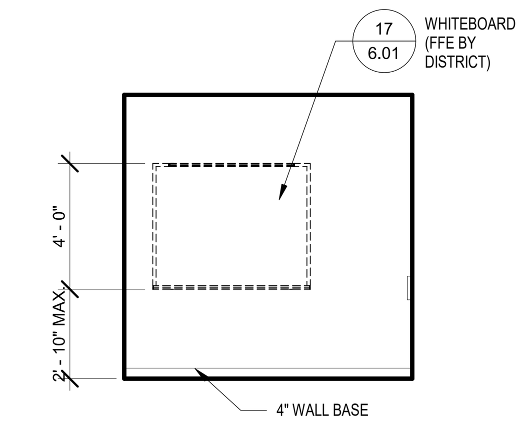
WORK/ STOR. 254
SCALE: 1/4"=1'-0"



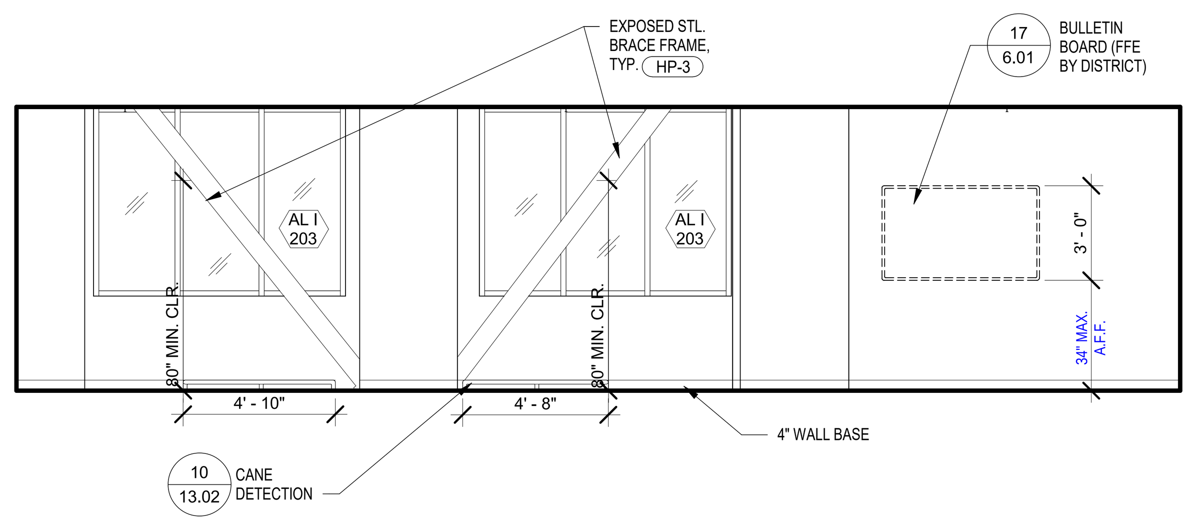
COUNSELING/ CAREER TRANSFER - OPEN OFFICE 266
SCALE: 1/4"=1'-0"



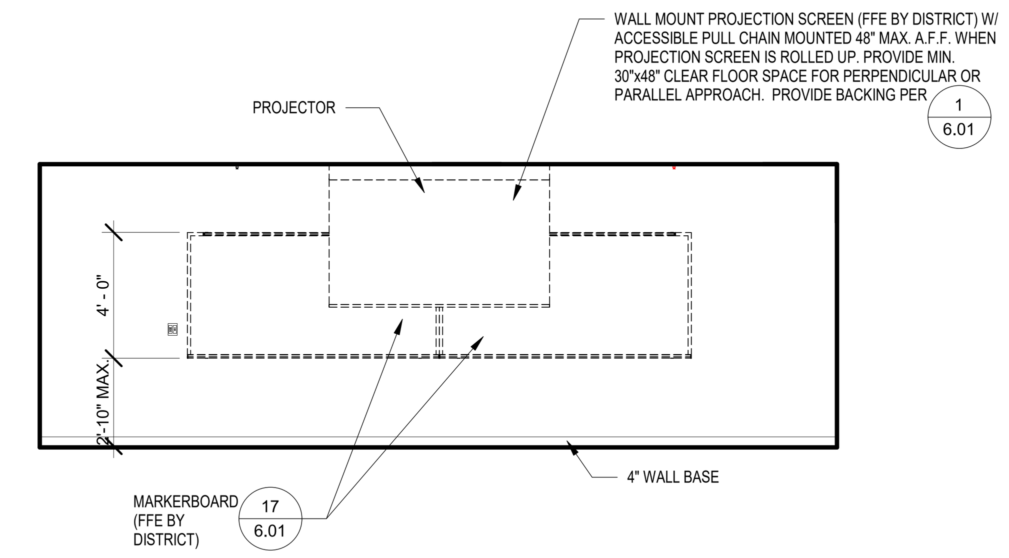
WORK/ STOR. 241
SCALE: 1/4"=1'-0"



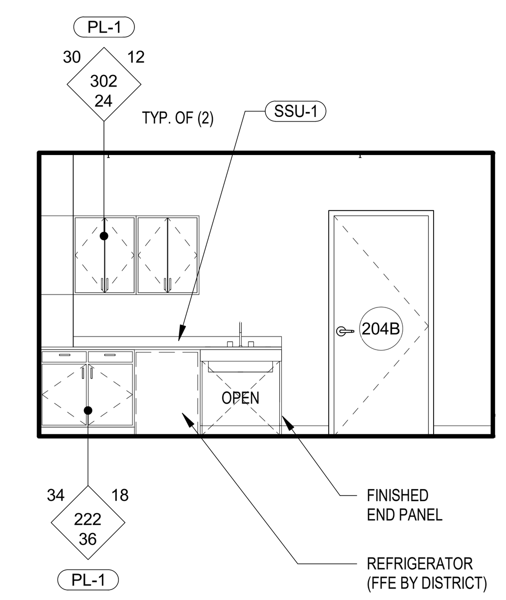
COUNS. 221
SCALE: 1/4"=1'-0"



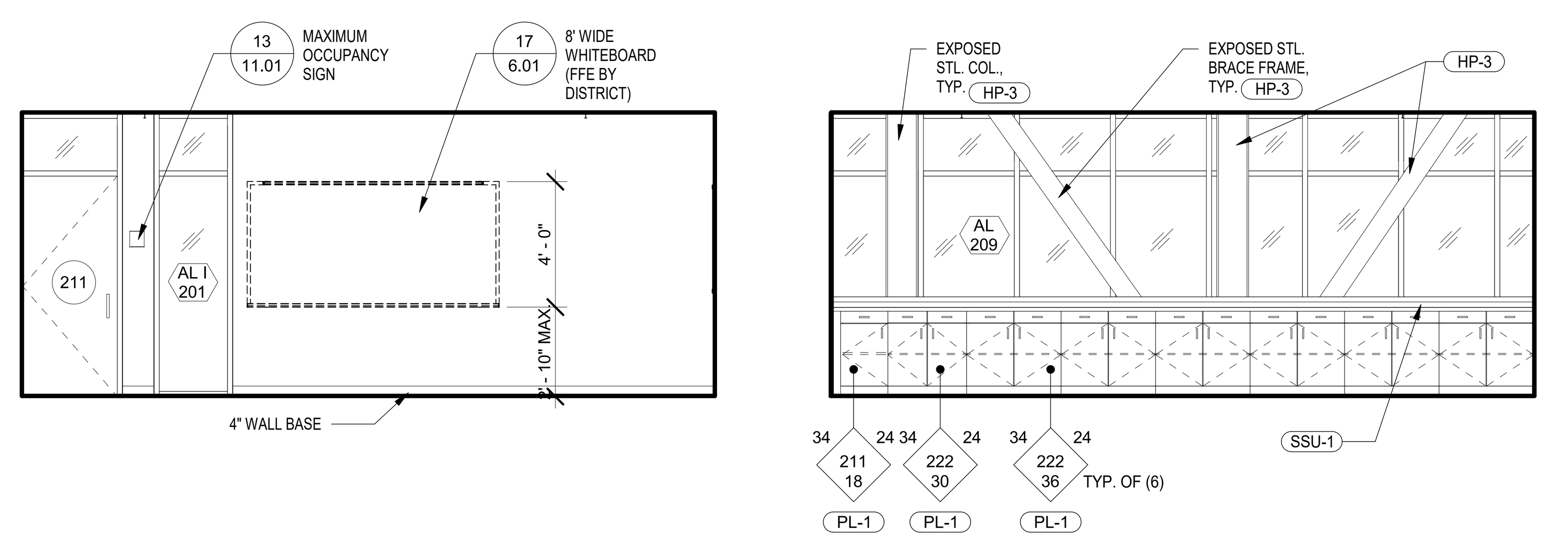
STUDENT EQUITY OPEN OFFICE 230
SCALE: 1/4"=1'-0"



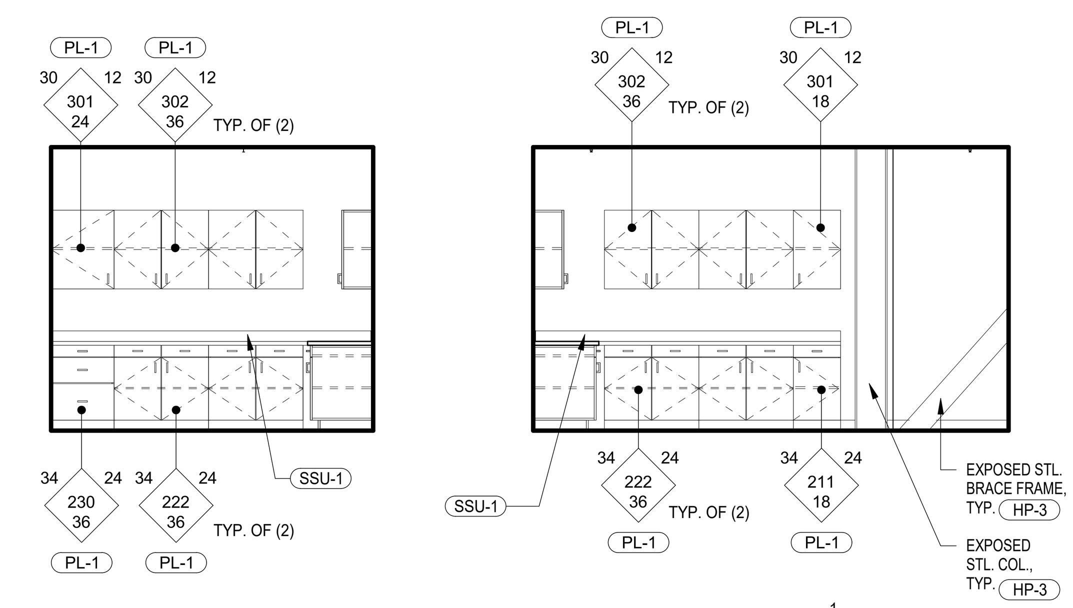
CLASSROOM 212
SCALE: 1/4"=1'-0"



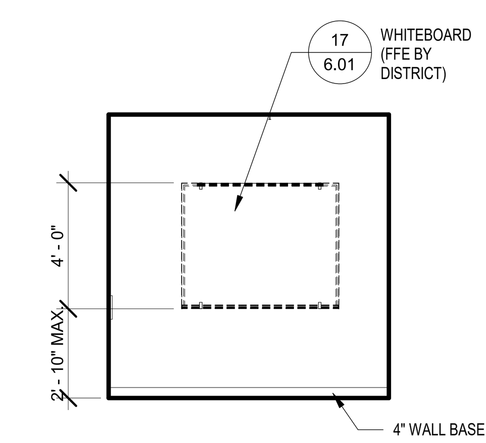
LACTATION 204
SCALE: 1/4"=1'-0"



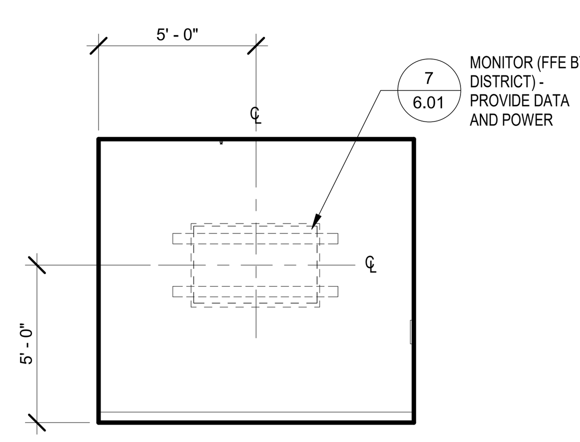
CONFERENCE ROOM 211
SCALE: 1/4"=1'-0"



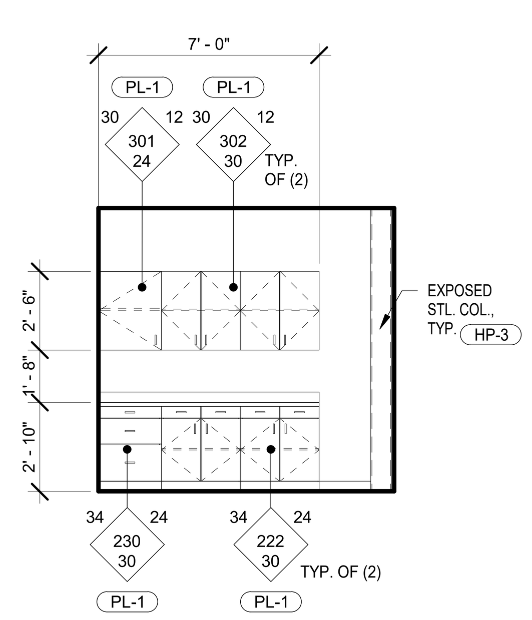
WORK/ STOR. 186
SCALE: 1/4"=1'-0"



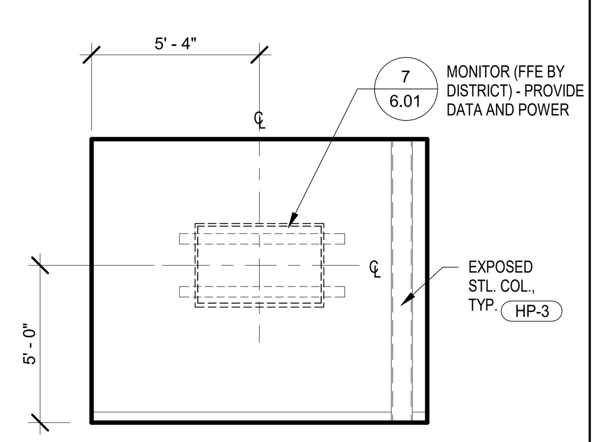
DIRECTOR 184
SCALE: 1/4"=1'-0"



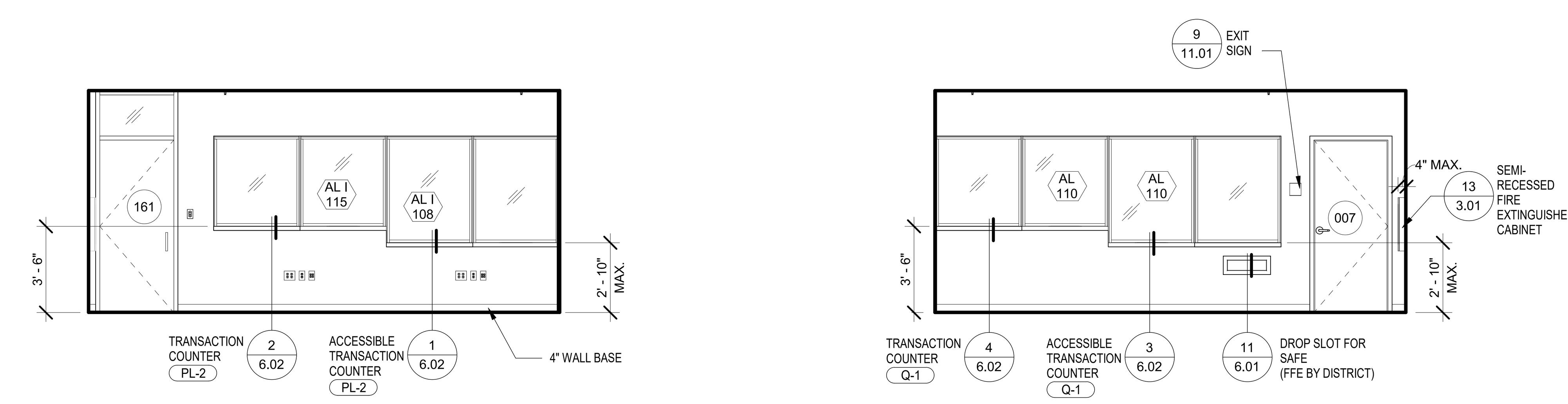
HUDDLE 181
SCALE: 1/4"=1'-0"



WORK/ STOR. 173
SCALE: 1/4"=1'-0"



HUDDLE 171
SCALE: 1/4"=1'-0"



BURSAR OPEN OFFICE 161
SCALE: 1/4"=1'-0"

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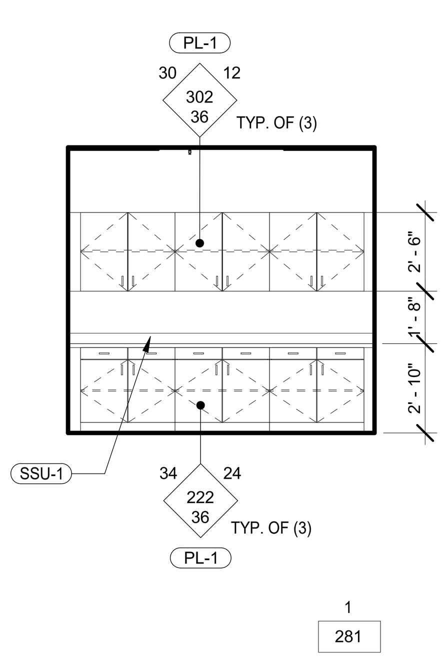
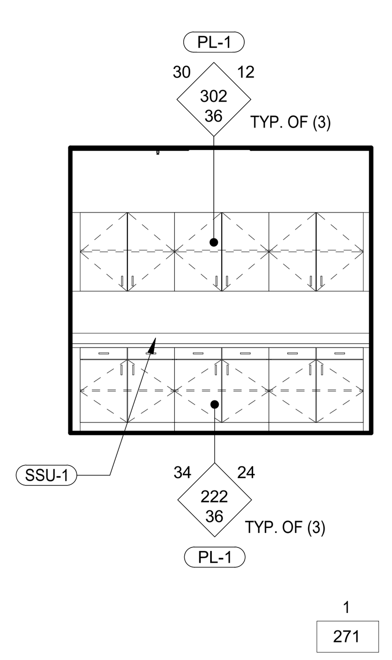
drawing no.:
A9-3



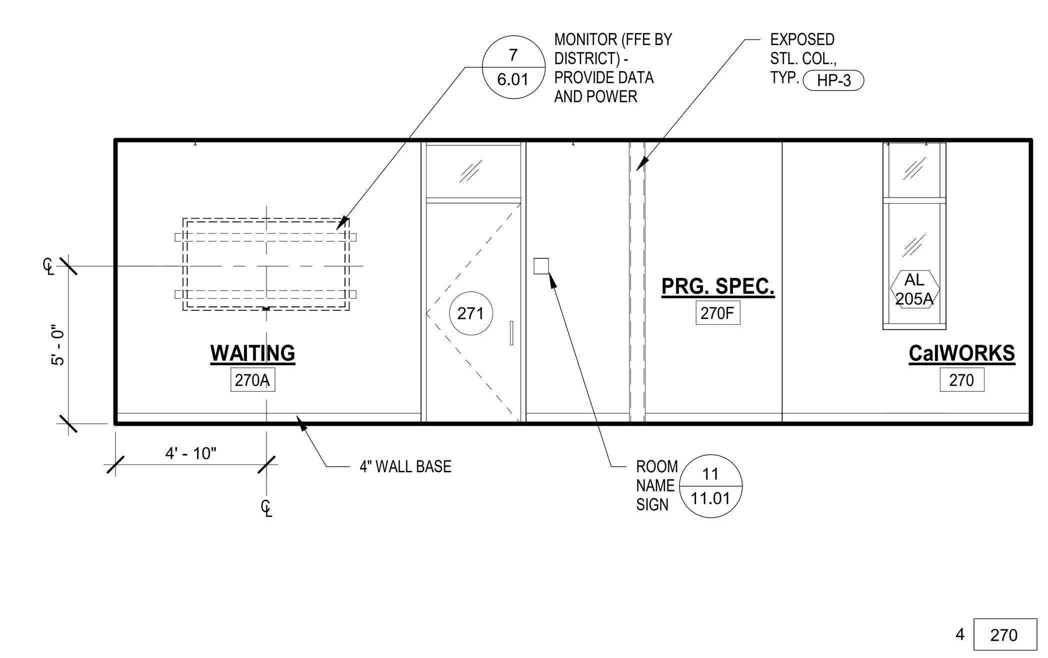
FILE/ STOR. | 281

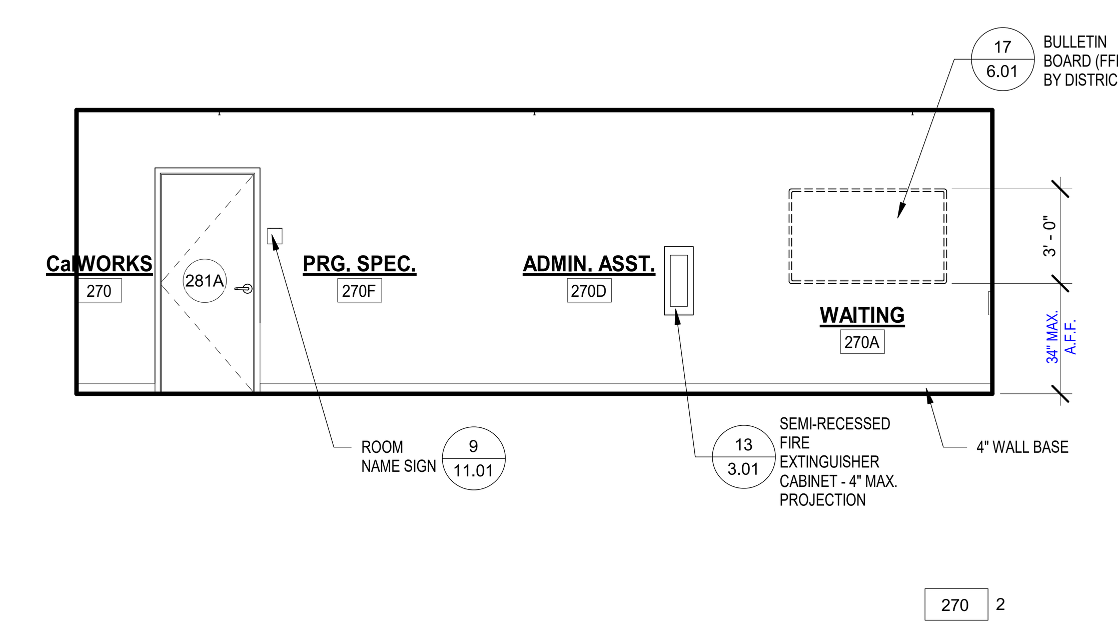
SCALE: 1/4"=1'-0"



FILE/ STOR. | 271

SCALE: 1/4"=1'-0"





CALWORKS OPEN OFFICE | 270

SCALE: 1/4"=1'-0"

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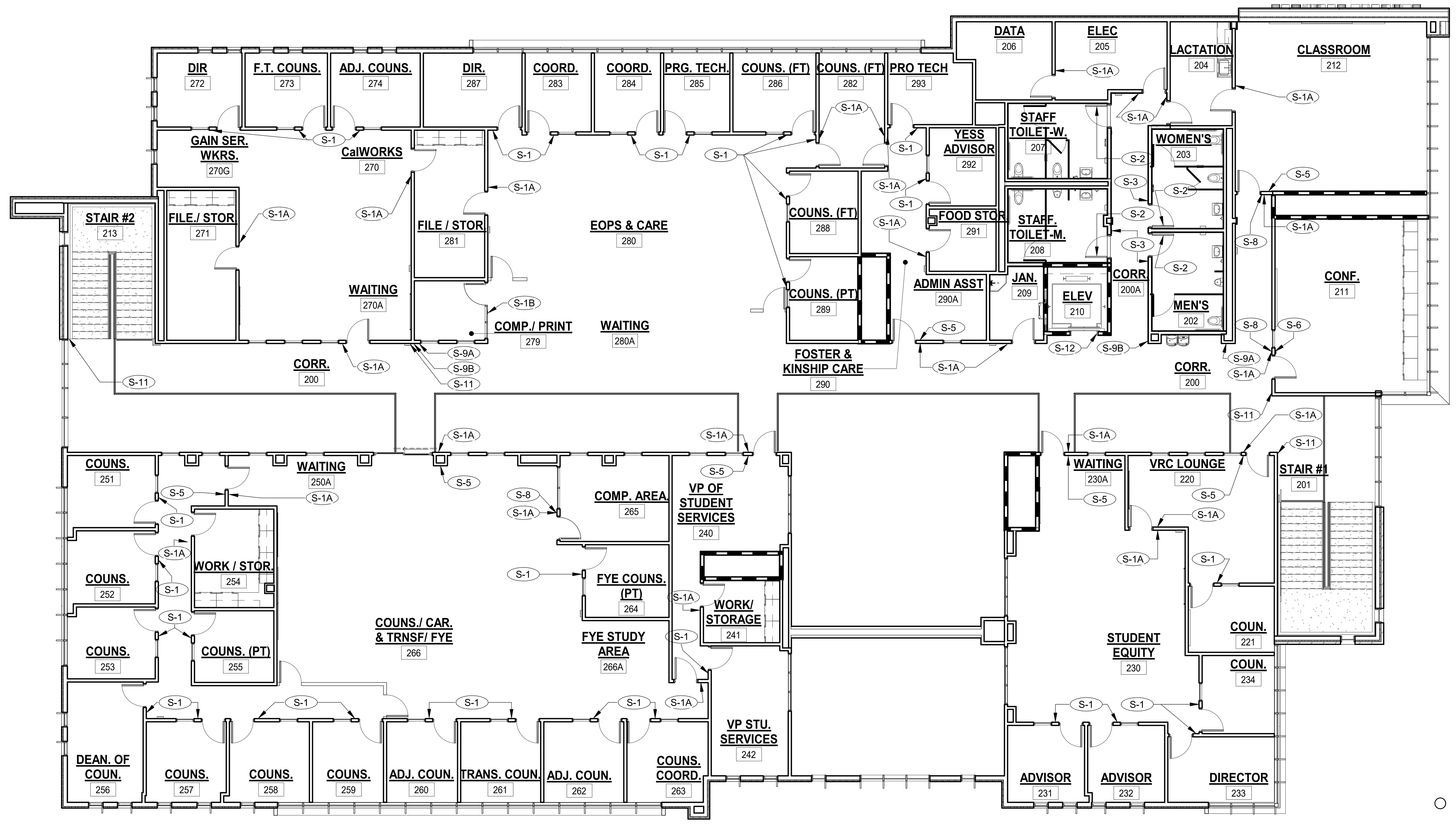
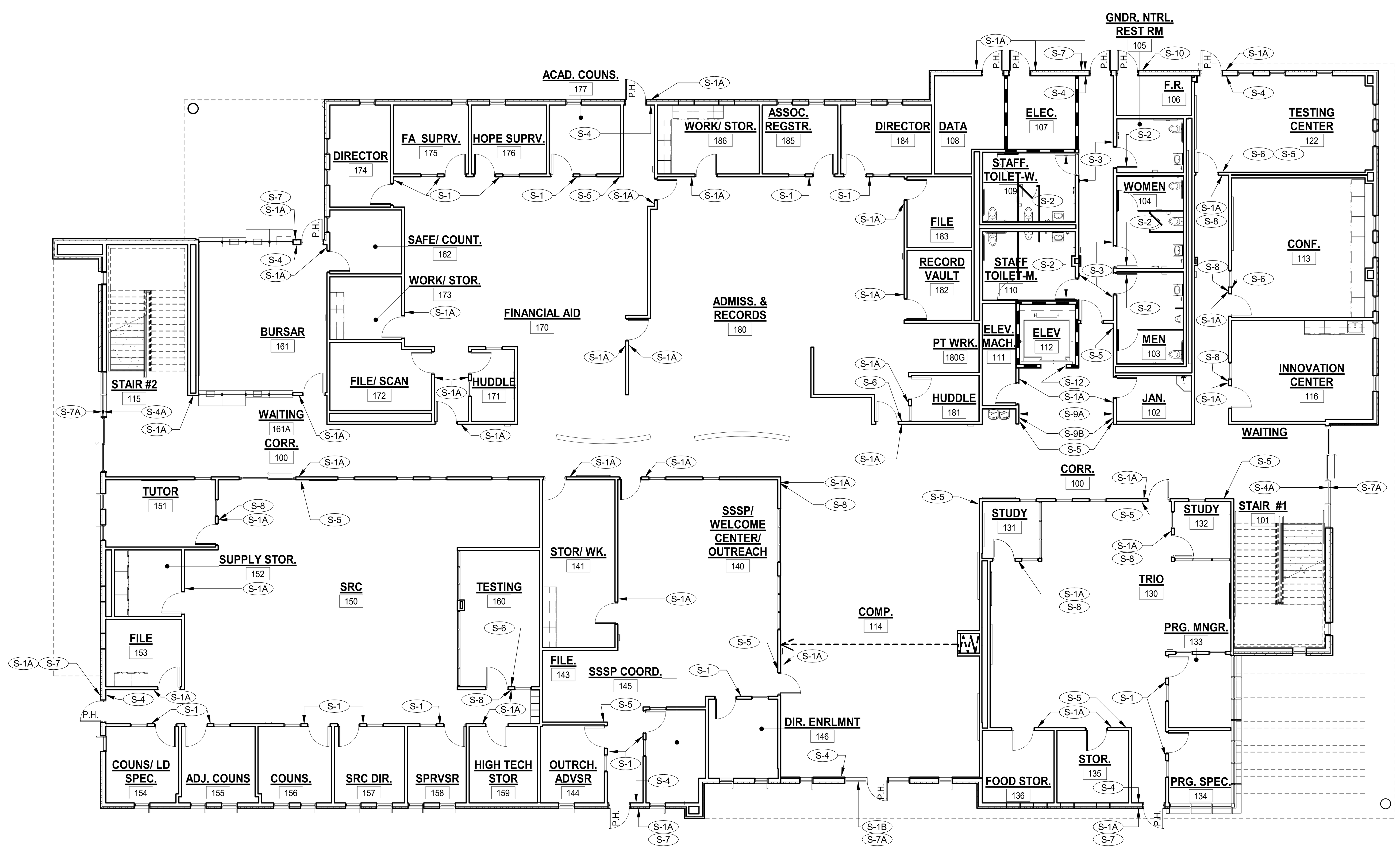
A9-4



2ND FLOOR SIGNAGE PLAN 2
SCALE 1" = 10'-0"



1ST FLOOR SIGNAGE PLAN 1
SCALE 1" = 10'-0"

GENERAL NOTES

1. REFER TO TYPICAL SIGNAGE LOCATION DETAIL 5/ 11.01.
2. REFER TO TYPICAL CHARACTER AND BRAILLE NOTES DETAIL 20/11.01.
3. REFER TO DETAILS 2, 3, 5/ 14.01 FOR ELEVATOR ENTRANCE AND ELEVATOR CAB SIGNAGE.
4. REFER TO DOOR SCHEDULE FOR ADDITIONAL SIGNAGE INFORMATION.

SIGNAGE LEGEND

S-1	ROOM NAME/ NUMBER SIGN WITH INSERT (WALL-MOUNT), SEE DOOR SCHEDULE AND	10/11.01
S-1A	ROOM NAME/ NUMBER SIGN (WALL MOUNT), SEE DOOR SCHEDULE AND	11/11.01
S-1B	ROOM NAME/ NUMBER SIGN (GLASS MOUNT), SEE DOOR SCHEDULE AND	11/11.01
S-2	TOILET ROOM SYMBOL (DOOR MOUNT), SEE DOOR SCHEDULE AND DETAILS	1/11.01, 2/11.01, 5/11.01, 6/11.01
S-3	TOILET ROOM SIGN (WALL MOUNT), SEE DOOR SCHEDULE AND DETAILS	3/11.01, 4/11.01, 7/11.01, 14/11.01
S-4	TACTILE "EXIT SIGN (INTERIOR) (WALL MOUNT), SEE	9/11.01
S-4A	TACTILE "EXIT SIGN (INTERIOR), (GLASS MOUNT), SEE DET.	9/11.01
S-5	TACTILE "EXIT ROUTE" SIGN (INTERIOR), SEE	8/11.01
S-6	"MAXIMUM OCCUPANCY" SIGN (INTERIOR WALL MOUNT), SEE	13/11.01
S-7	ACCESSIBLE ENTRANCE SIGN (EXTERIOR) (WALL MOUNT), SEE	14/11.01
S-7A	ACCESSIBLE ENTRANCE SIGN (EXTERIOR) (GLASS MOUNT), SEE	14/11.01
S-8	"ASSISTIVE LISTENING DEVICE" SIGN (INTERIOR WALL MOUNT), SEE	12/11.01
S-9A	ELEVATOR DIRECTIONAL SIGN, SEE	19A/11.01
S-9B	RESTROOM DIRECTIONAL SIGN, SEE	19B/11.01
S-10	"FIRE SPRINKLER RISER" SIGN (DOOR MOUNT), SEE	16/11.01
S-11	"EXIT STAIR DOWN" SIGN (WALL MOUNT), SEE	18/11.01
S-12	ELEVATOR SIGNAGE (JAMB MOUNT), SEE	3/14.01, 8/14.01, 14/14.01

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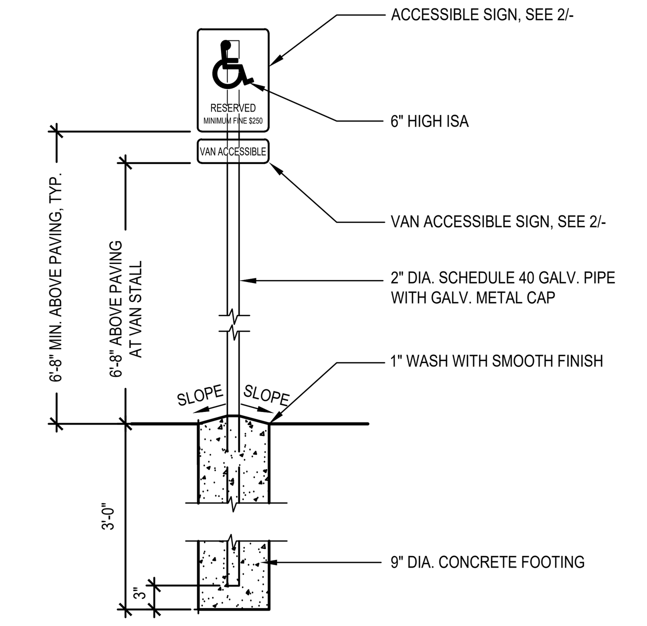
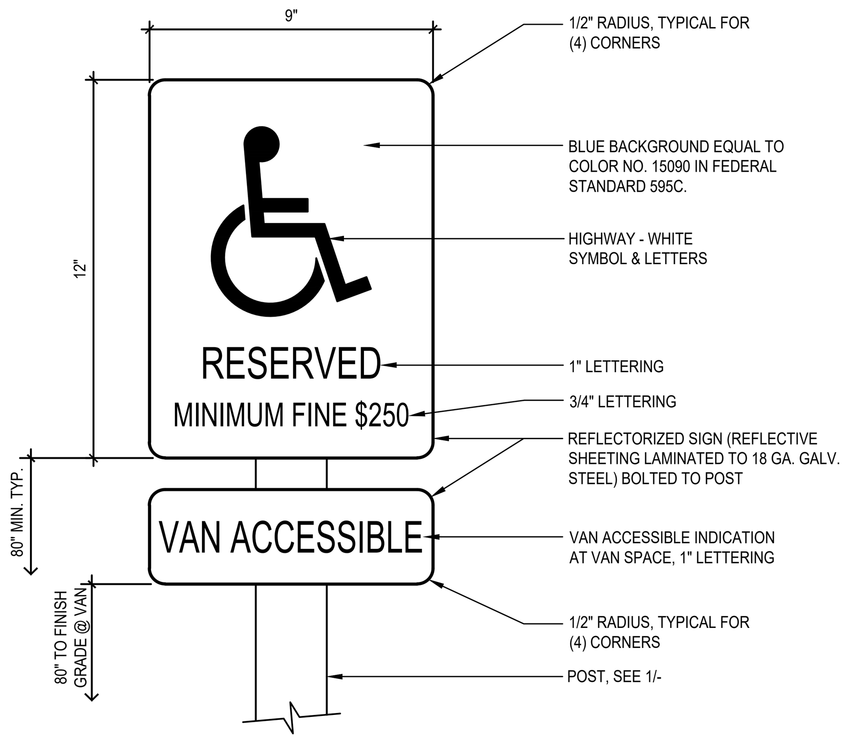
SIGNAGE FLOOR PLANS

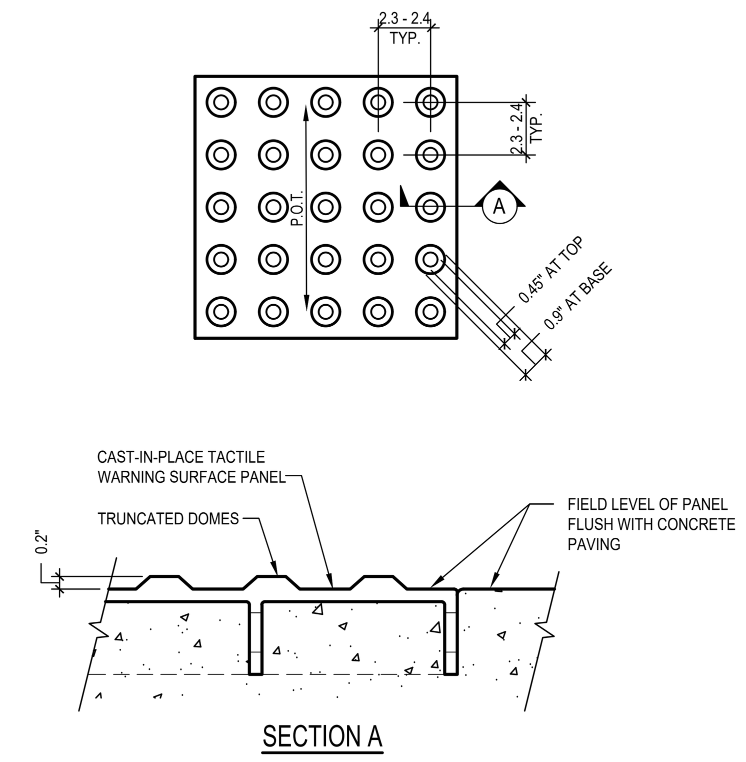
drawing no.:
A10-1



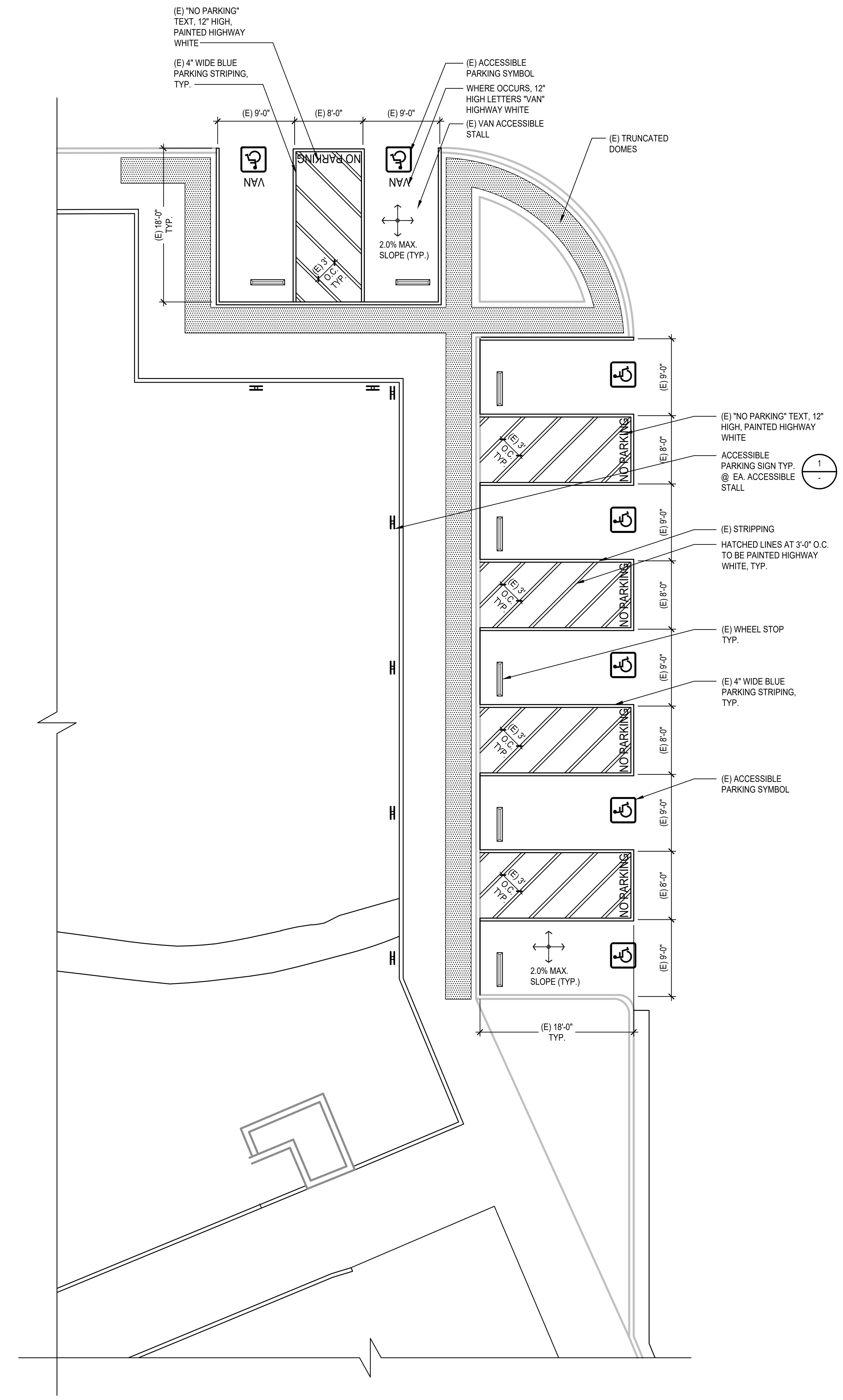
ACCESSIBLE PARKING STALL SIGN 1
SCALE: 3/4" = 1'-0"



ACCESSIBLE PARKING STALL SIGN 2
SCALE: 3" = 1'-0"



TRUNCATED DOMES DETAIL 3
SCALE: 3" = 1'-0"



A# 03 113780 - EXISTING CERTIFIED ACCESSIBLE PARKING AND PATH OF TRAVEL

EXISTING ACCESSIBLE PARKING 20
SCALE: 1/8" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-119686 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/14/2019

DIVISION OF THE STATE ARCHITECT
335 SOUTH GRAND AVENUE, SUITE 2100
LOS ANGELES, CA 90071
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architect

consultant

COMPTON COLLEGE STUDENT SERVICES BLDG.

COMPTON COMMUNITY COLLEGE DISTRICT
1111 E. ARTESIA BLVD.
COMPTON, CA 90221

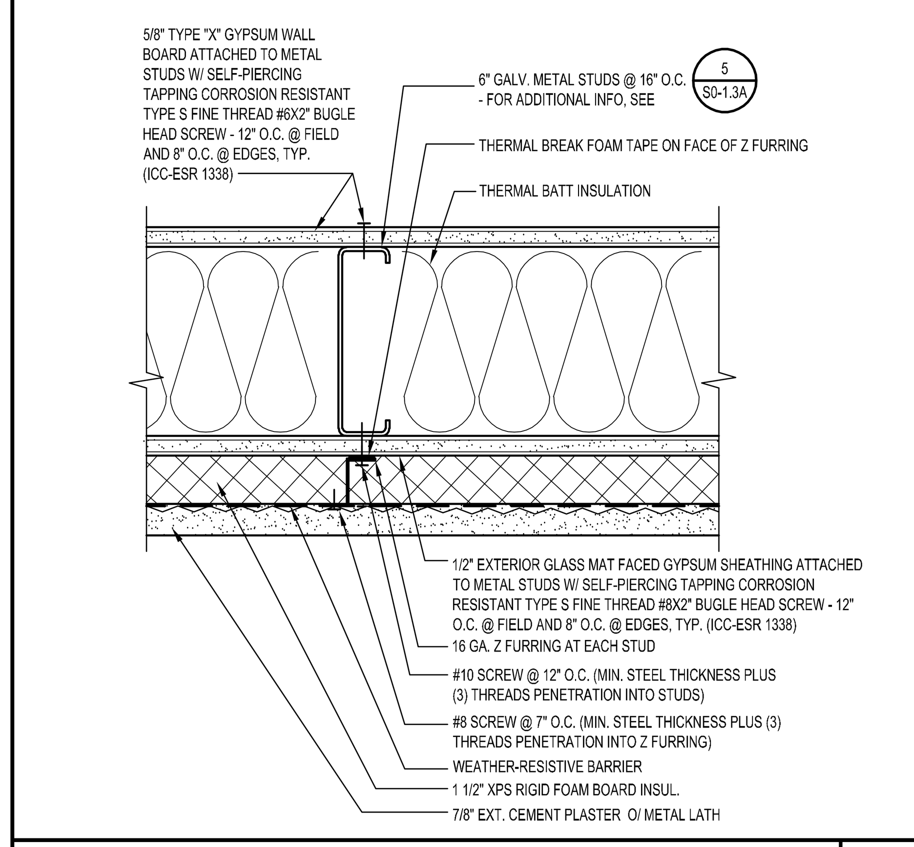
owner

tBP project number : 20987.00
file name: DTL-0201_SITE_DETAIL.DWG
drawn by: tBP checked by: T. HALL
date: 9.3.2019

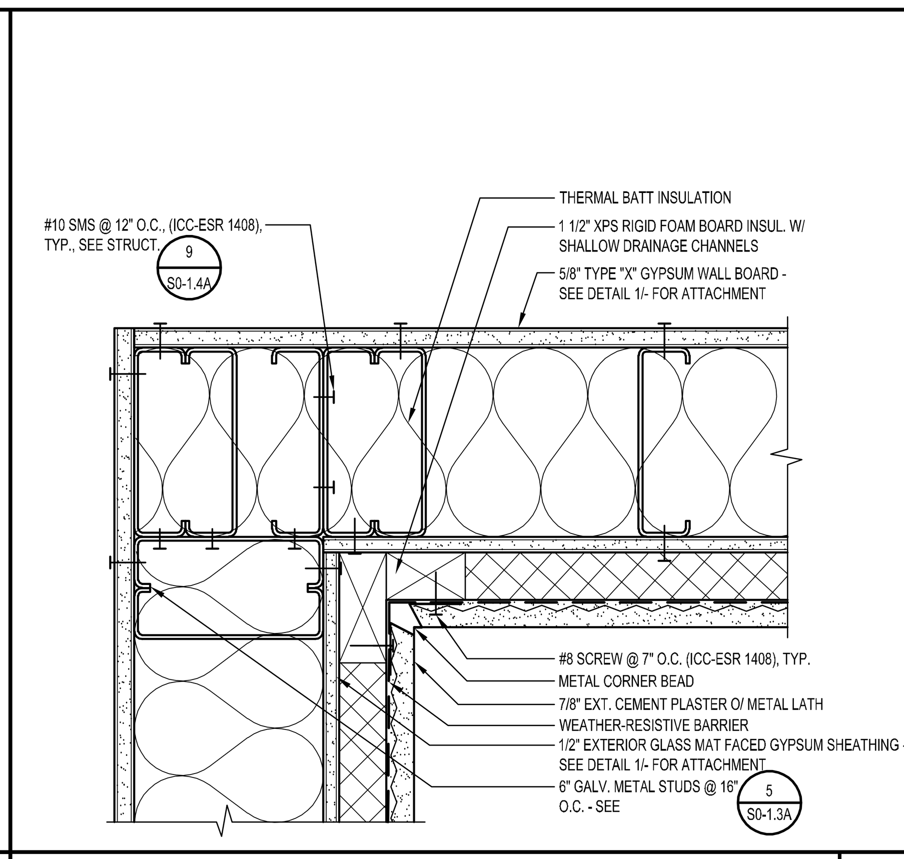
Rev:	date:	description:

drawing title:
SITE DETAILS
/ EXISTING PARKING

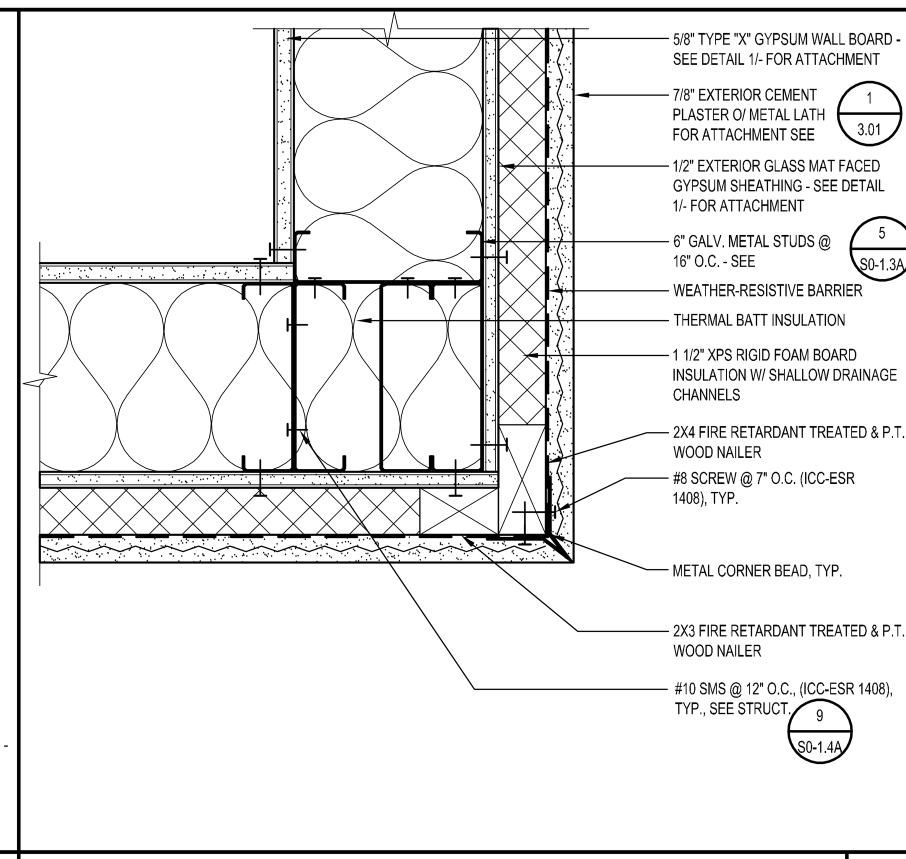
drawing no.:
2.01



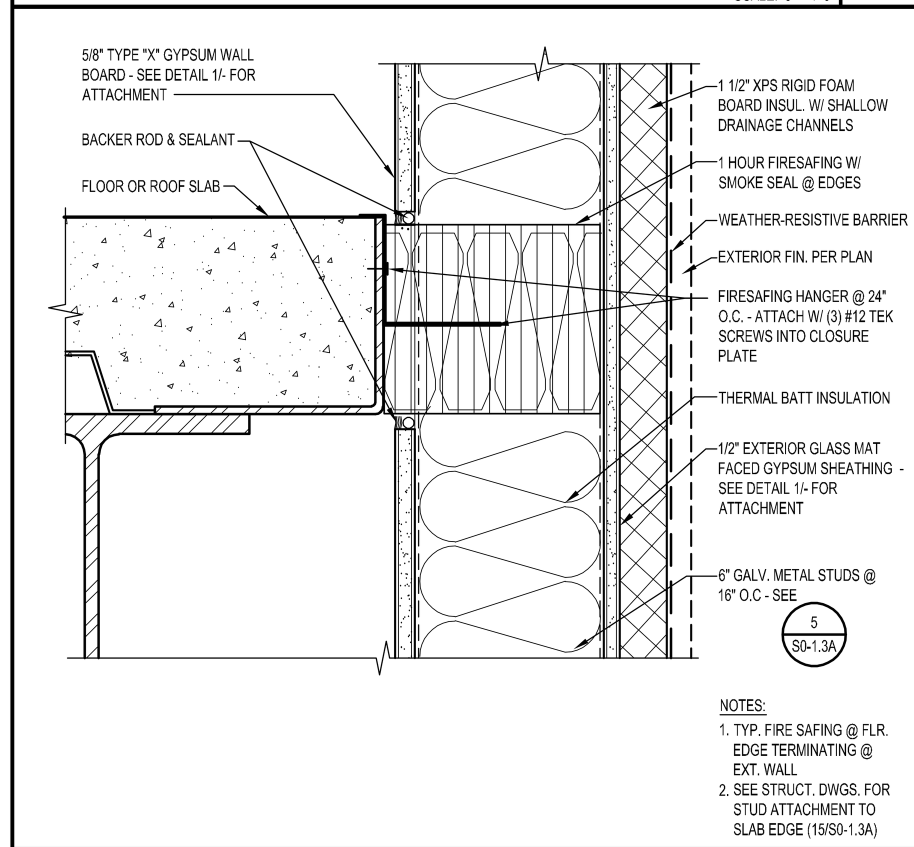
EXTERIOR CEMENT PLASTER WALL 1
SCALE: 3" = 1'-0"



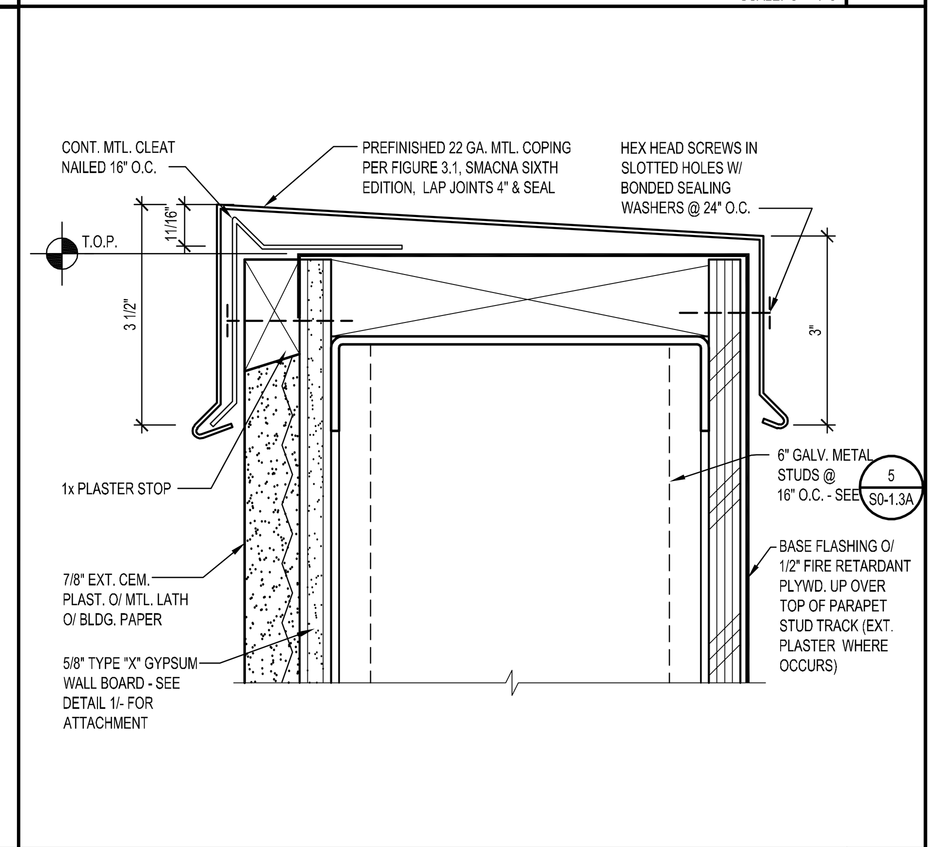
EXTERIOR PLASTER WALL - INSIDE CORNER 2
SCALE: 3" = 1'-0"



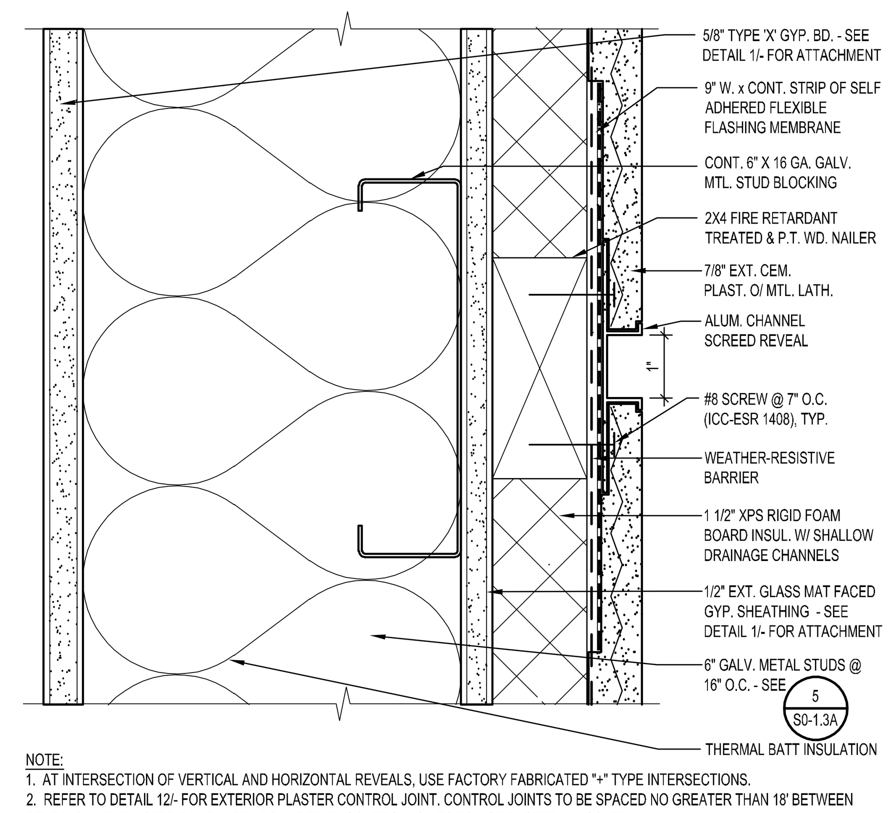
EXTERIOR PLASTER WALL - OUTSIDE CORNER 3
SCALE: 3" = 1'-0"



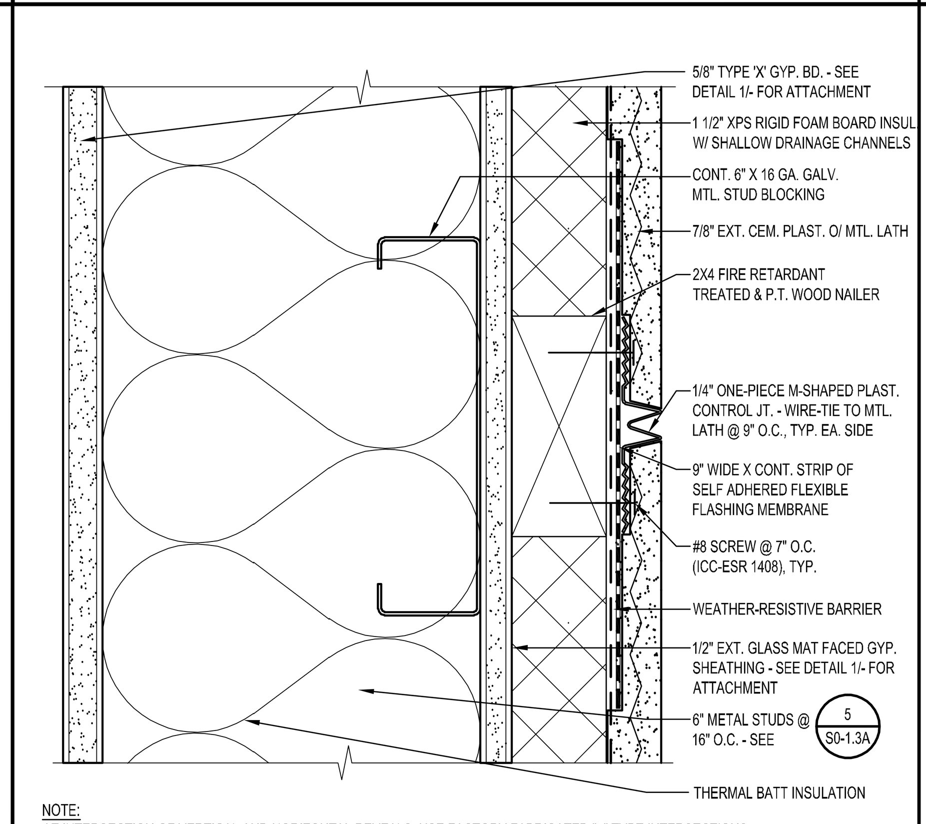
2ND. FLOOR SLAB @ EXT WALL 6
SCALE: 3" = 1'-0"



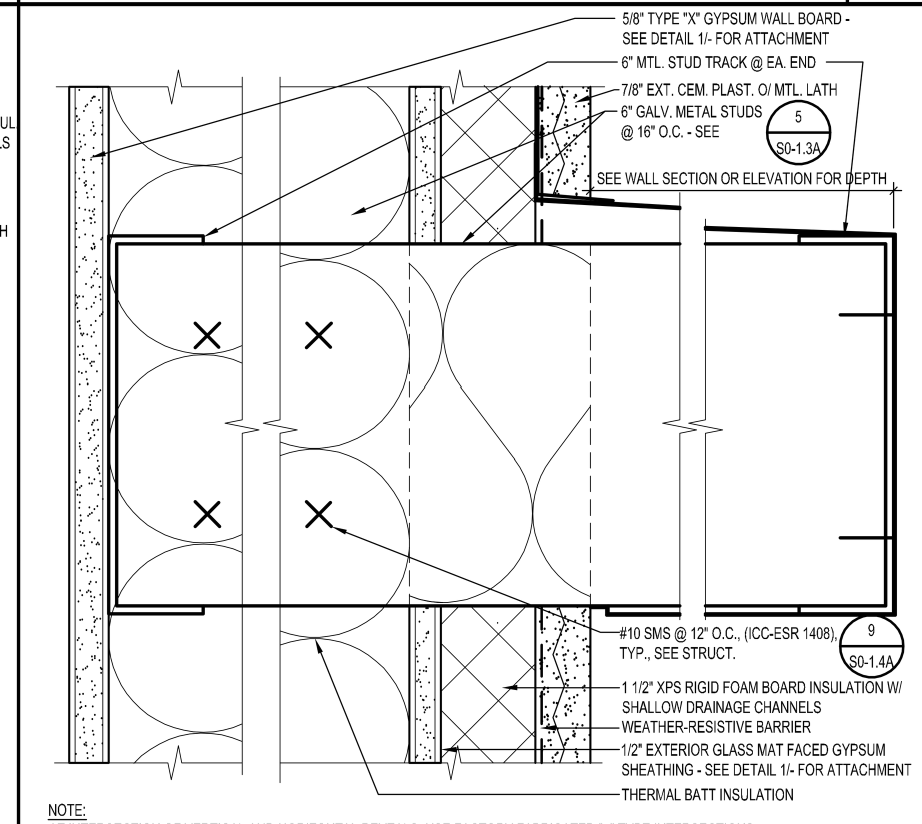
COPING - EXT. CEM. PLAST. PARAPET 8
SCALE: HALF



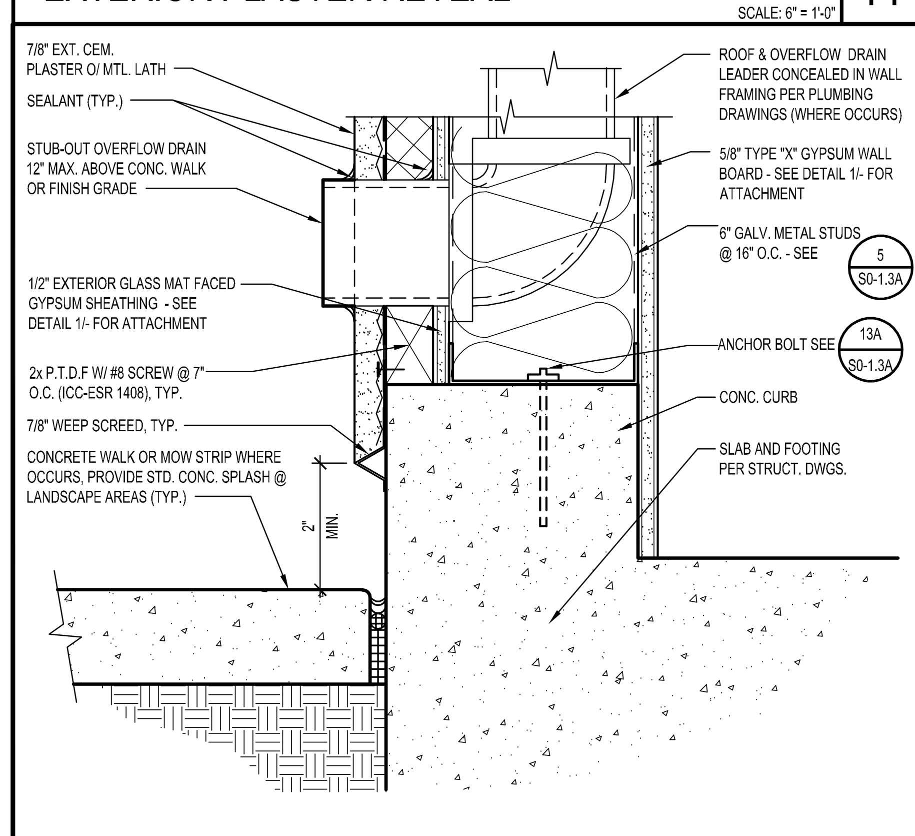
EXTERIOR PLASTER REVEAL 11
SCALE: 6" = 1'-0"



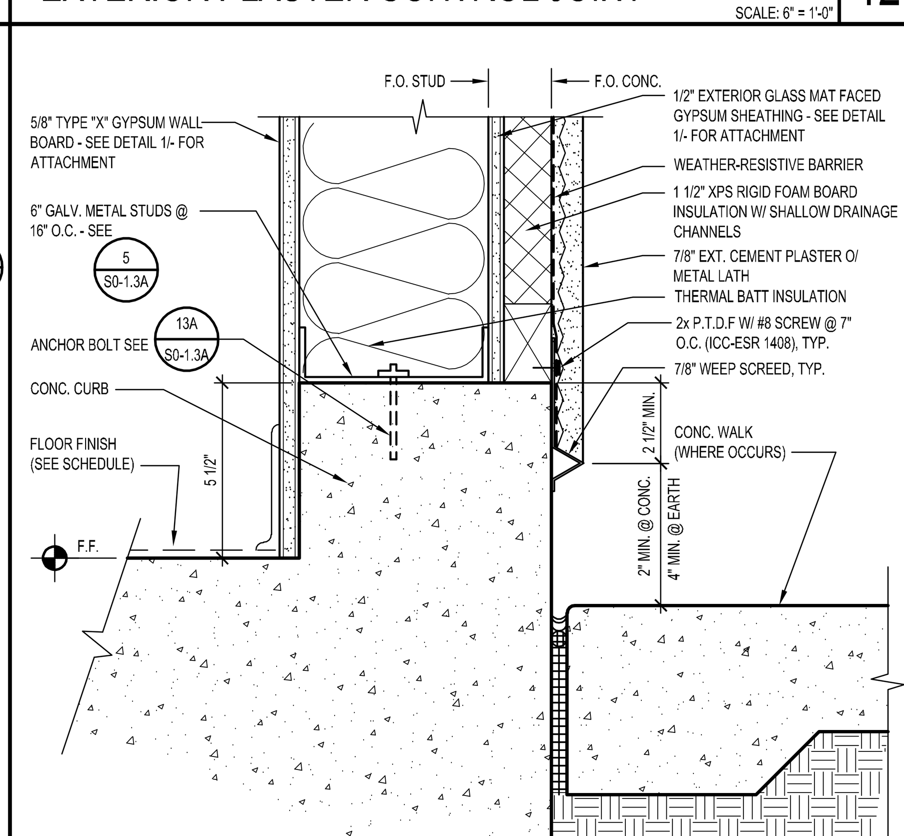
EXTERIOR PLASTER CONTROL JOINT 12
SCALE: 6" = 1'-0"



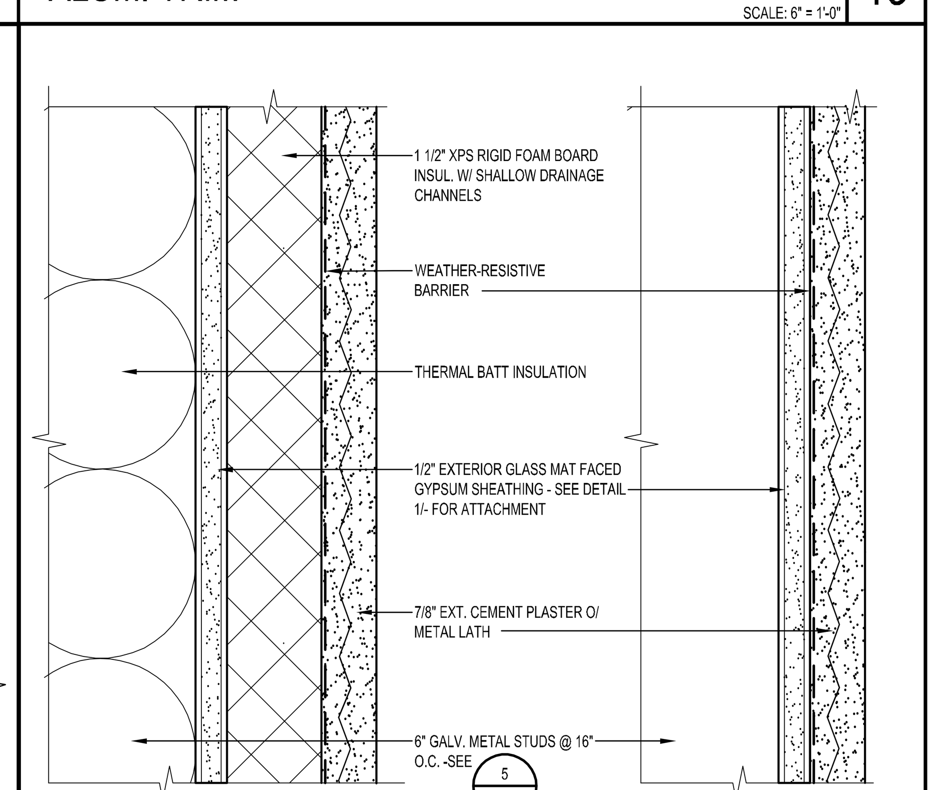
ALUM. TRIM 13
SCALE: 6" = 1'-0"



OVERFLOW DRAIN OUTLET 16
SCALE: 3" = 1'-0"



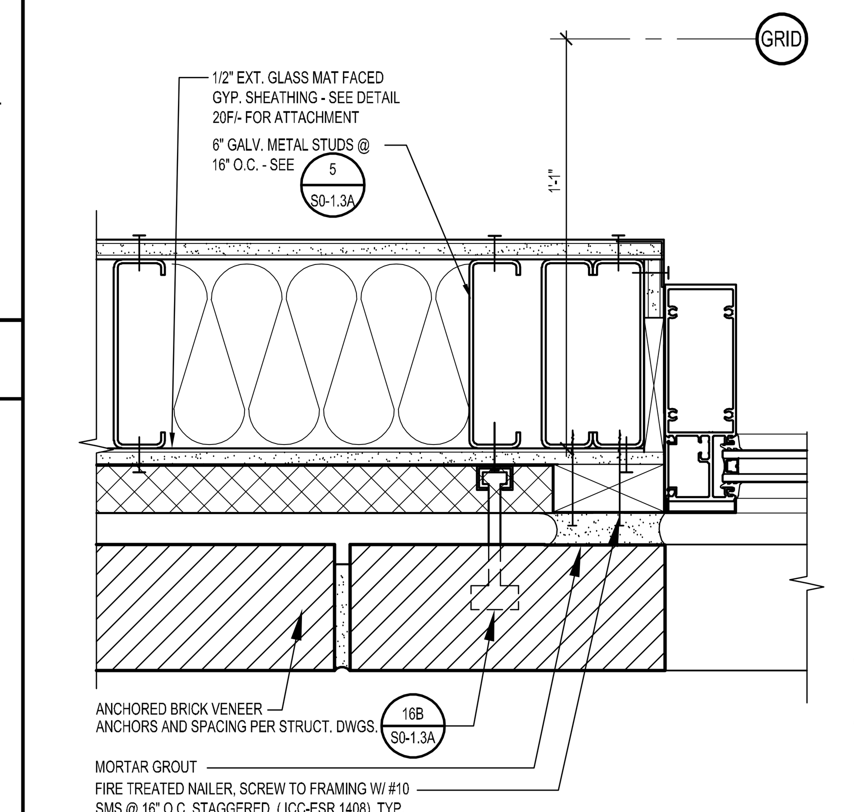
CURB AT EXTERIOR PLASTER WALL 17
SCALE: 3" = 1'-0"



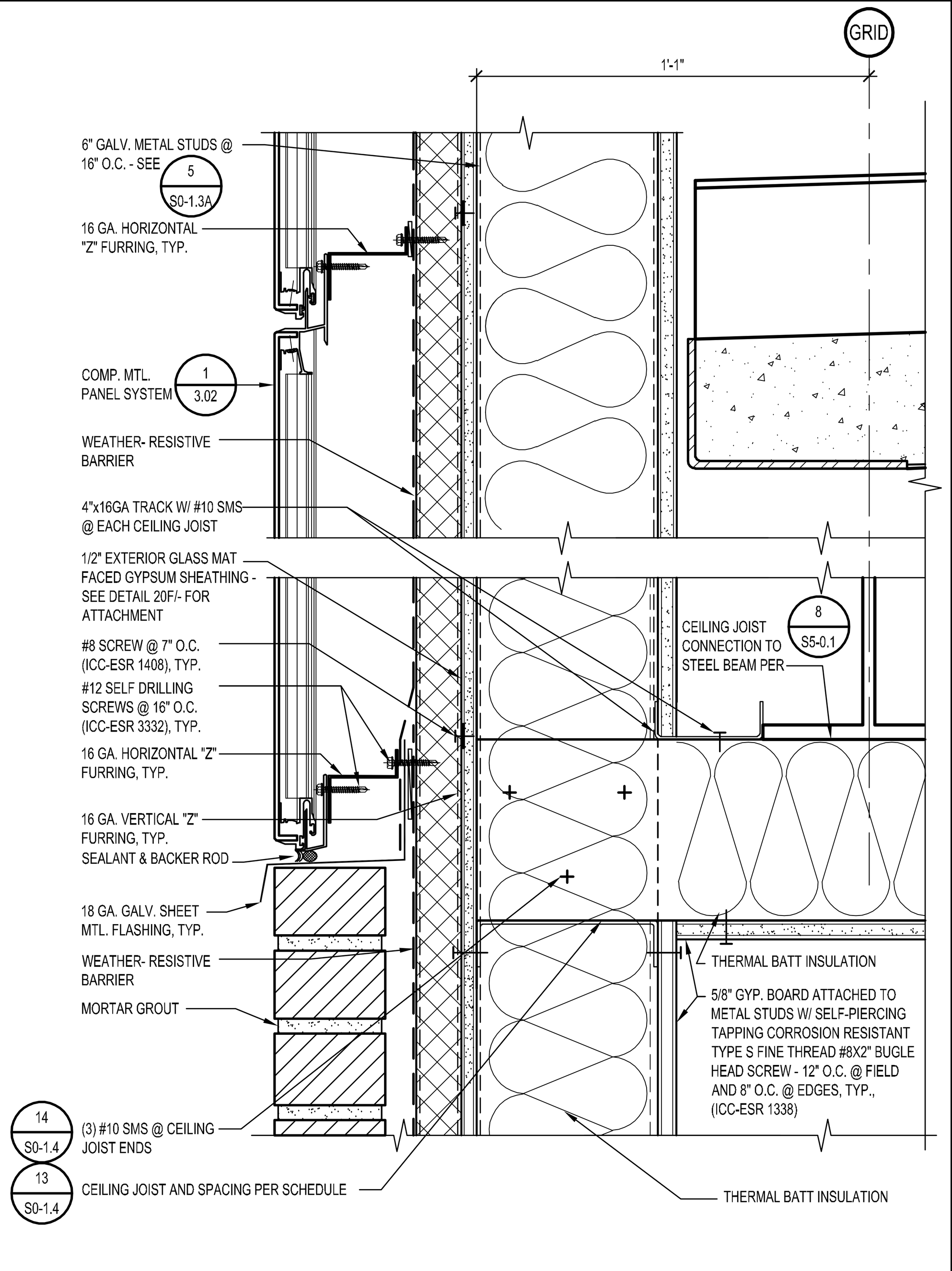
5A @ CONDITIONED SPACE

5B @ UNCONDITIONED

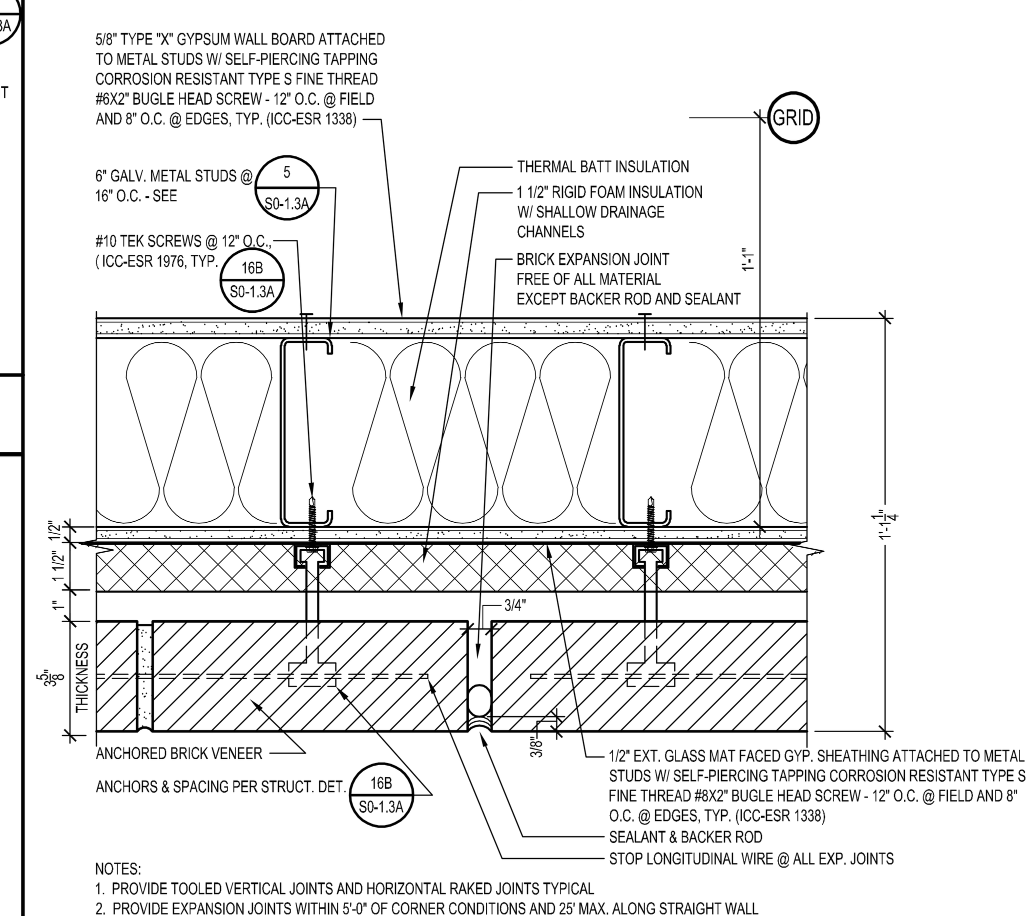
EXTERIOR CEMENT PLASTER SYSTEM 18
SCALE: HALF



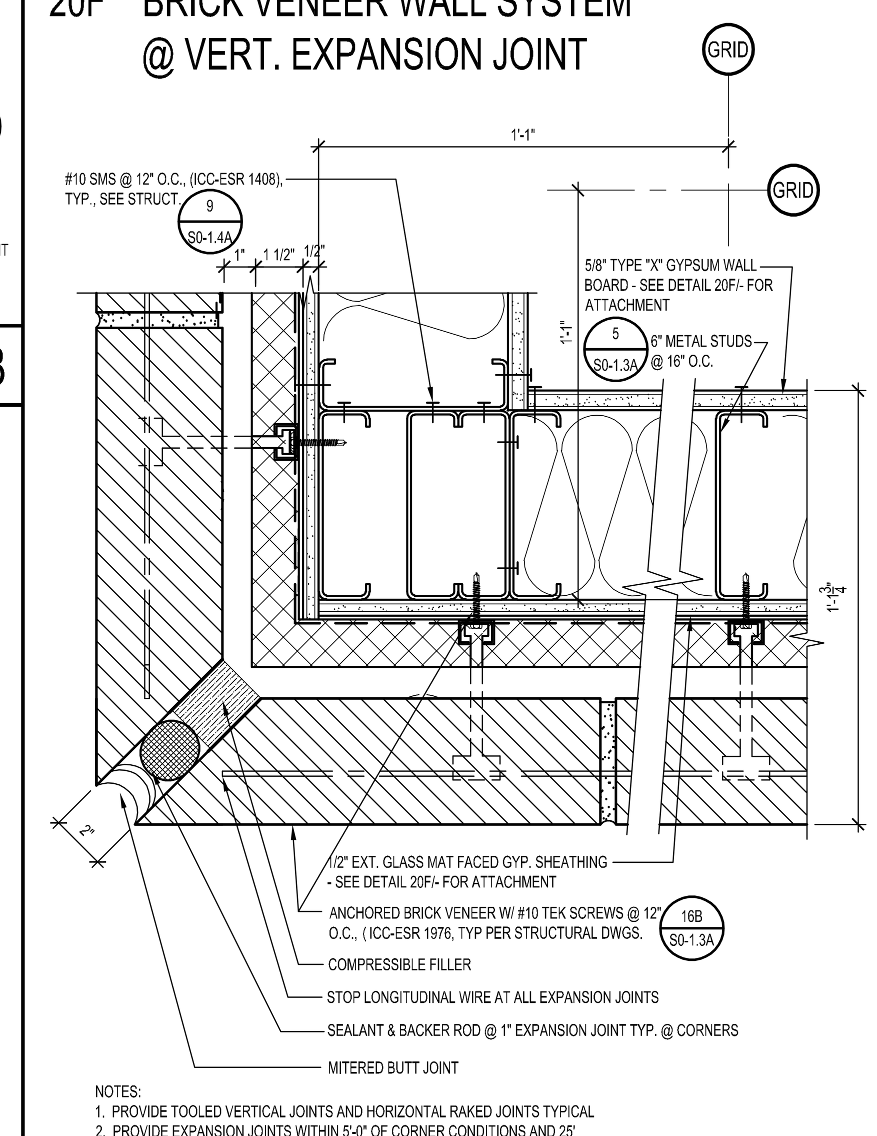
20G BRICK VENEER WALL @ WINDOW JAMB



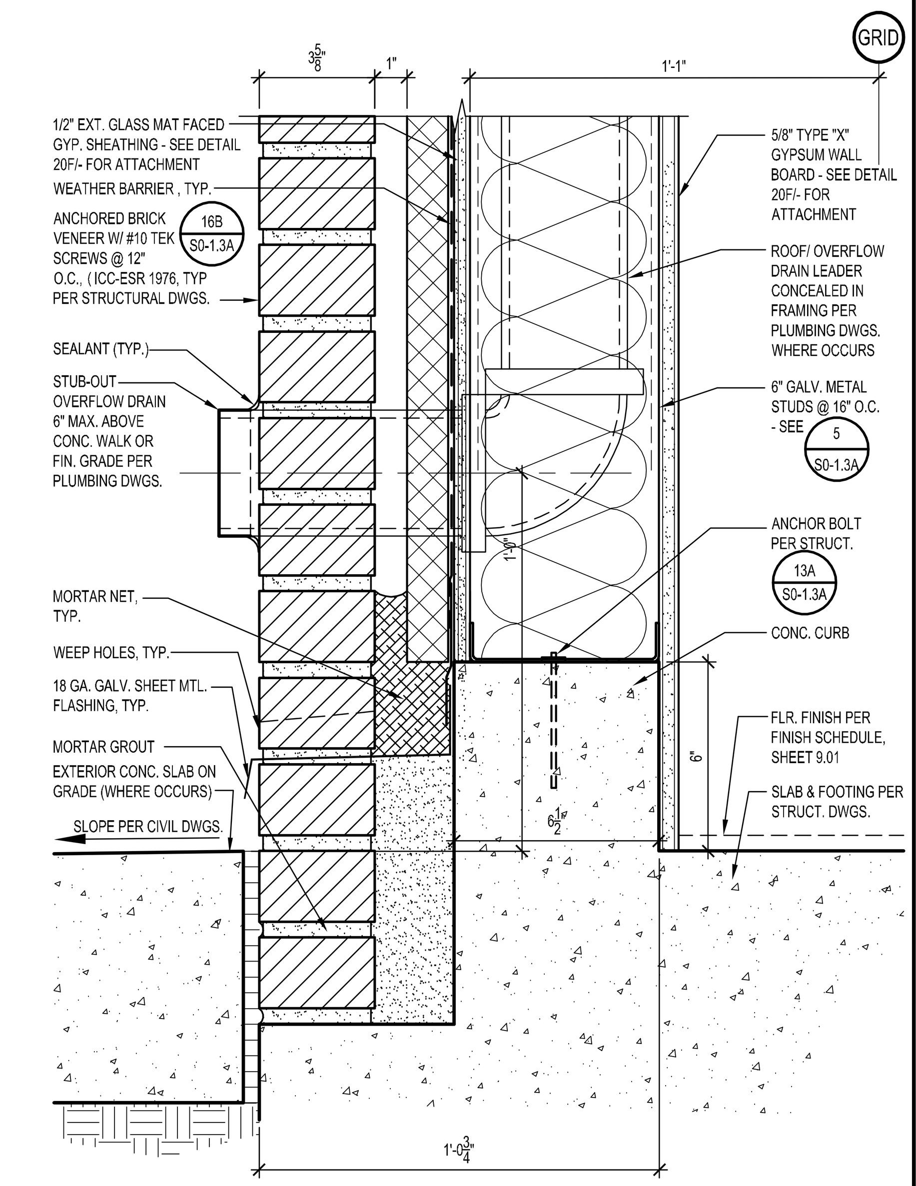
20D BRICK VENEER WALL @ METAL PANEL SOFFIT



20F BRICK VENEER WALL SYSTEM @ VERT. EXPANSION JOINT



20E BRICK VENEER WALL OUTSIDE CORNER



20A BRICK VENEER WALL BASE @ MAT FOUNDATION

BRICK VENEER SYSTEM 20
SCALE: 3" = 1'-0"

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COMPTON COMMUNITY COLLEGE DISTRICT
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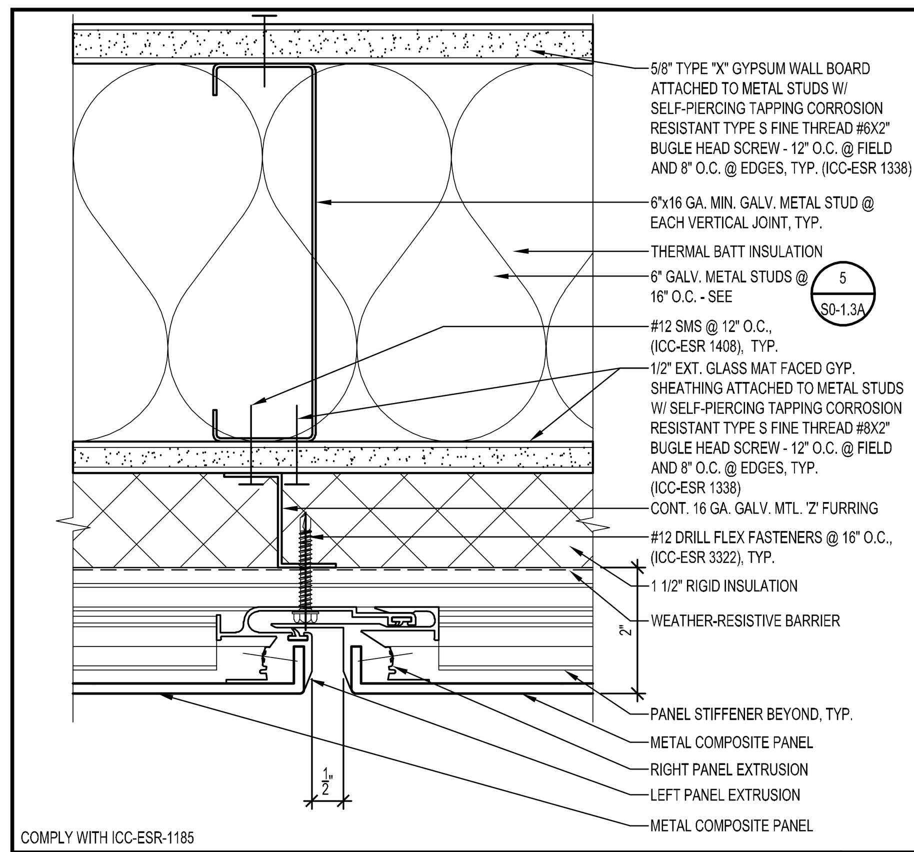
COMPTON, CA 90221

owner

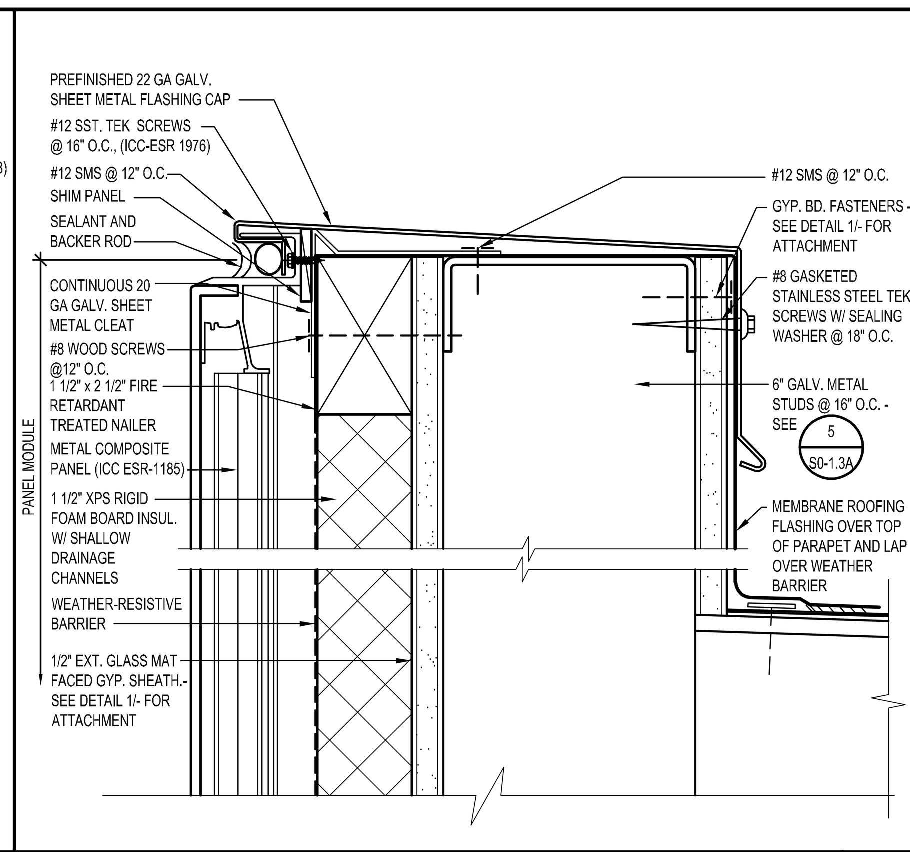
tBP project number : 20987.00
file name: DTL-0301 EXT PLAST.DWG
drawn by: tBP checked by: T. HALL
date: 9.3.2019
Rev: date: description:

drawing title:
EXTERIOR WALL DETAILS

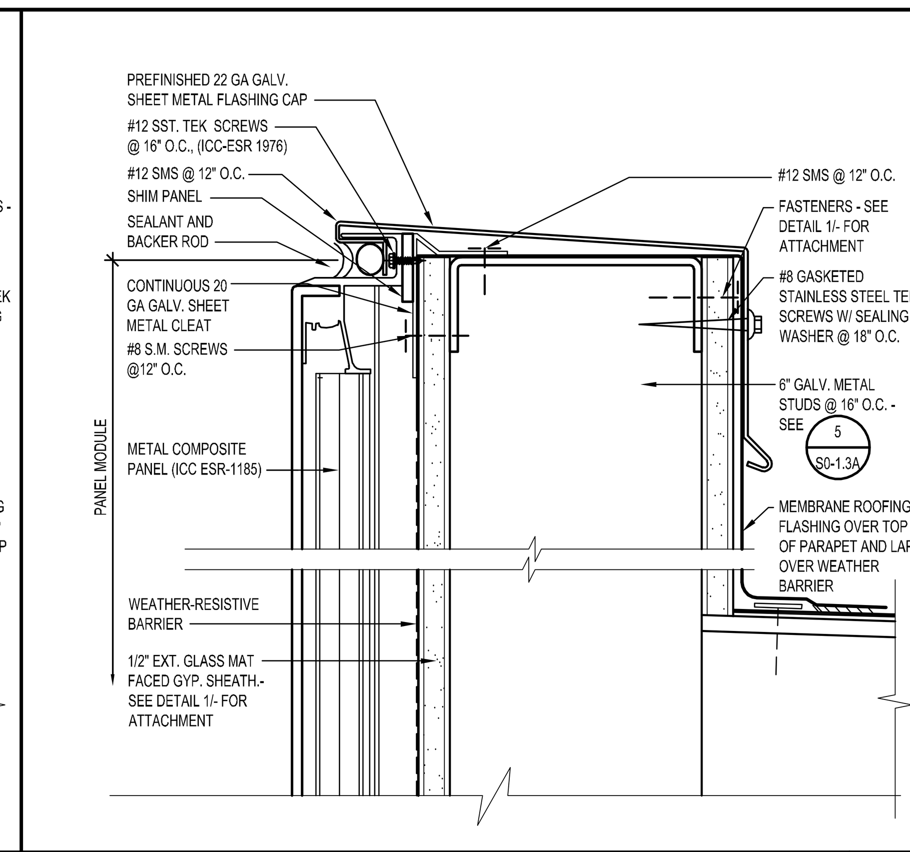
drawing no.:
3.01



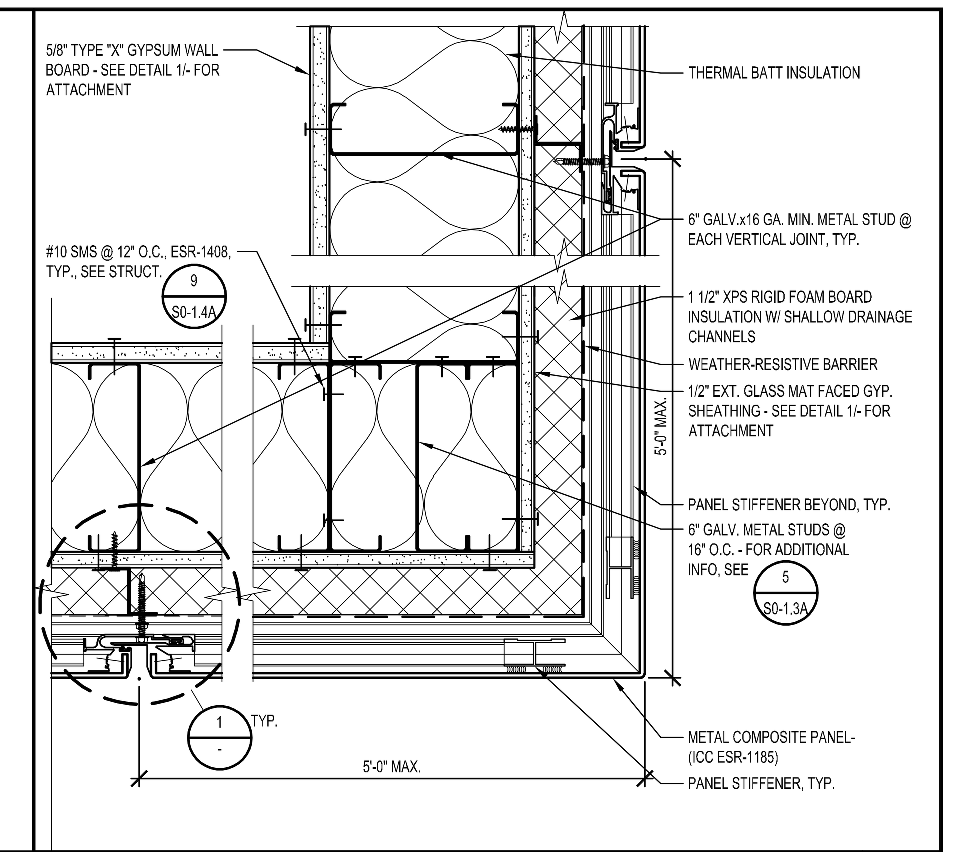
METAL COMP. PANEL VERTICAL JOINT 1
SCALE: HALF



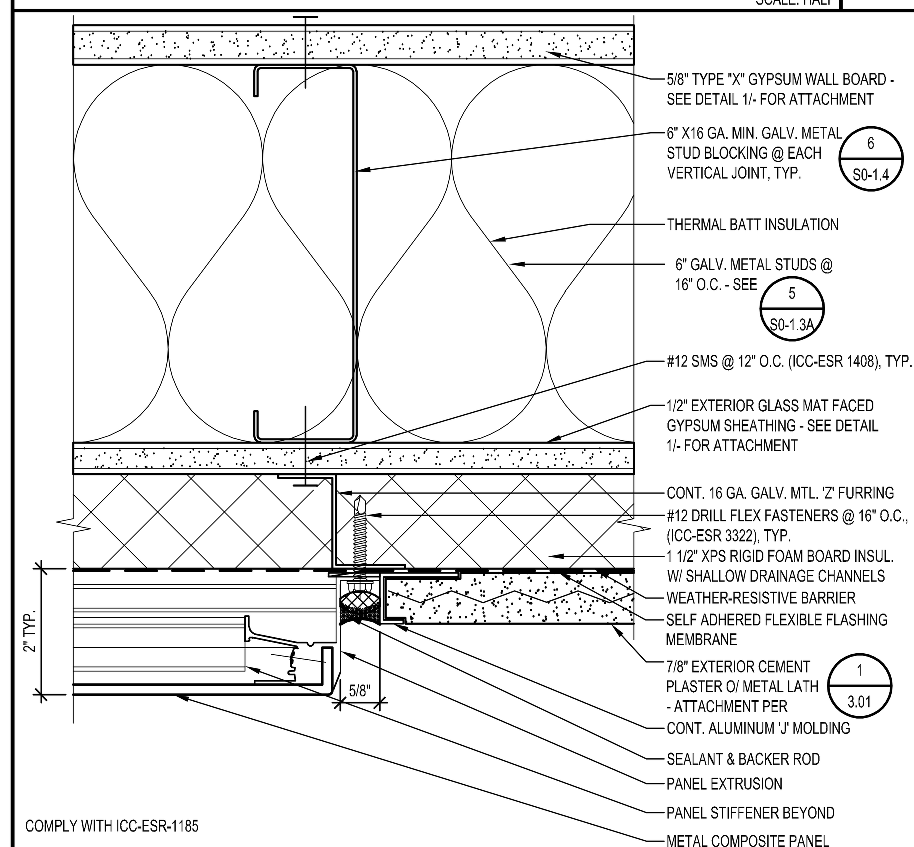
METAL COMPOSITE PANEL @ PARAPET COPING 2
SCALE: HALF



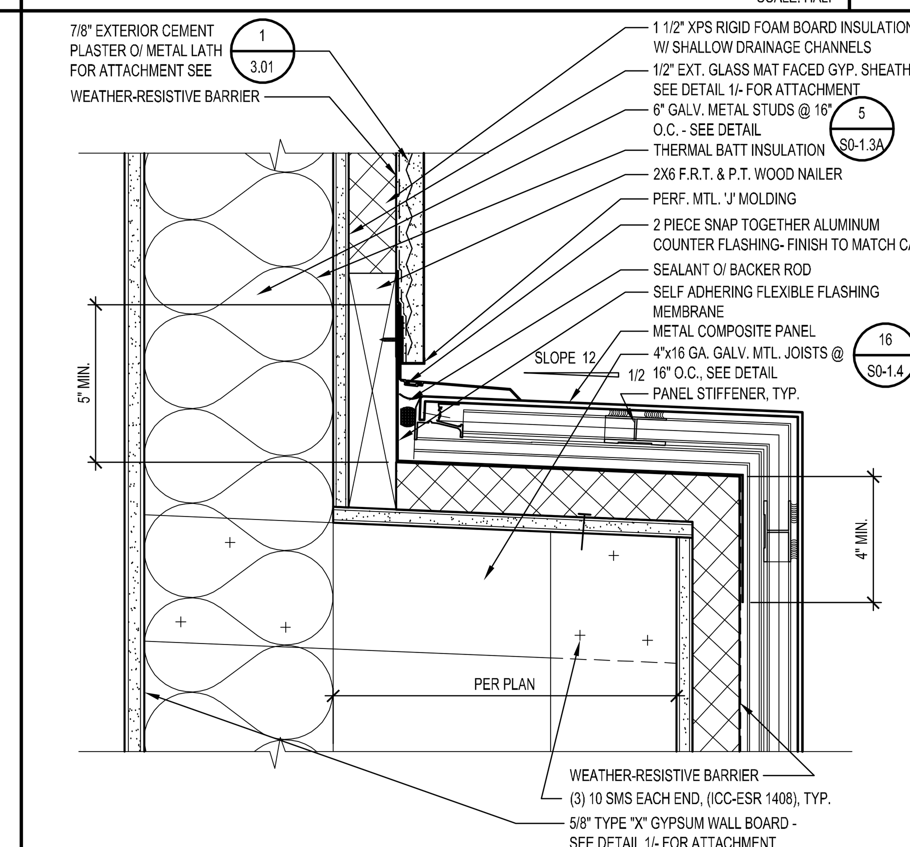
METAL COMPOSITE PANEL @ PARAPET COPING 3
SCALE: HALF



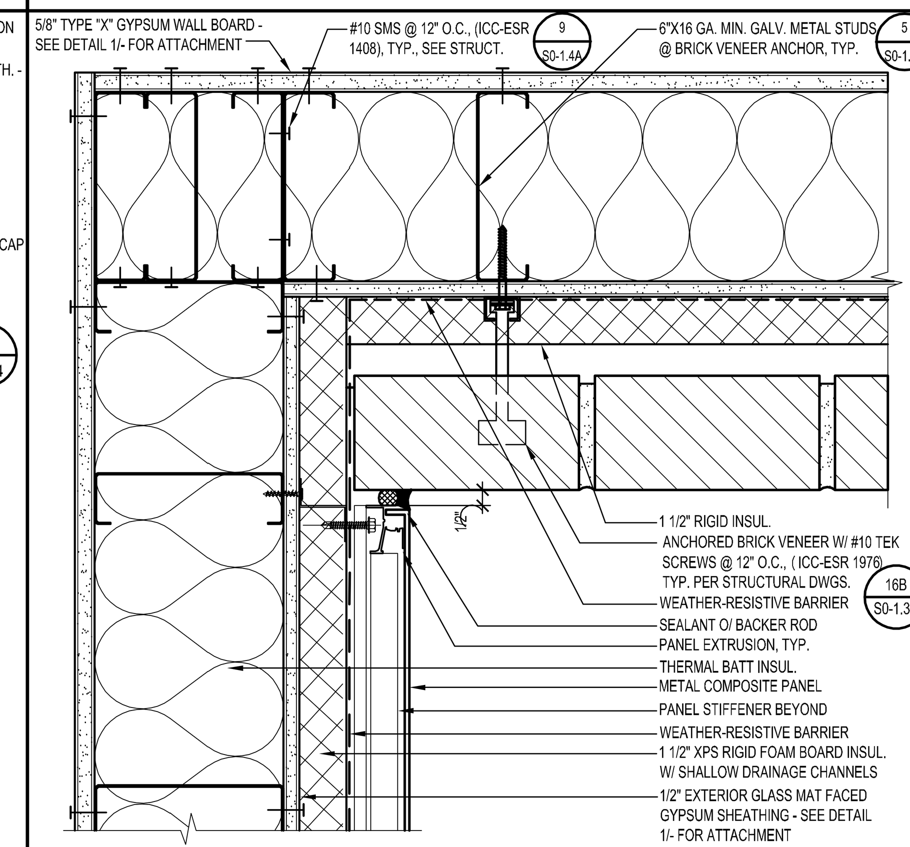
METAL COMPOSITE PANEL OUTSIDE CORNER 5
SCALE: 3" = 1'-0"



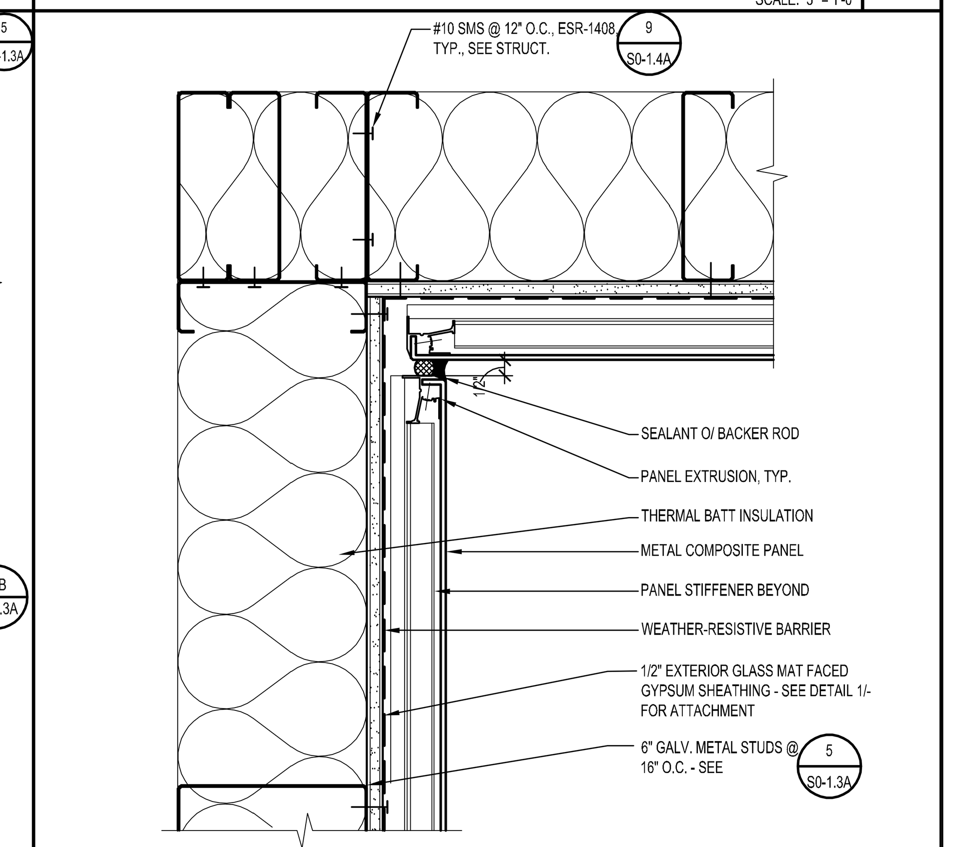
MTL. COMPOSITE PANEL/CEM. PLAS. VERTICAL JOINT 6
SCALE: HALF



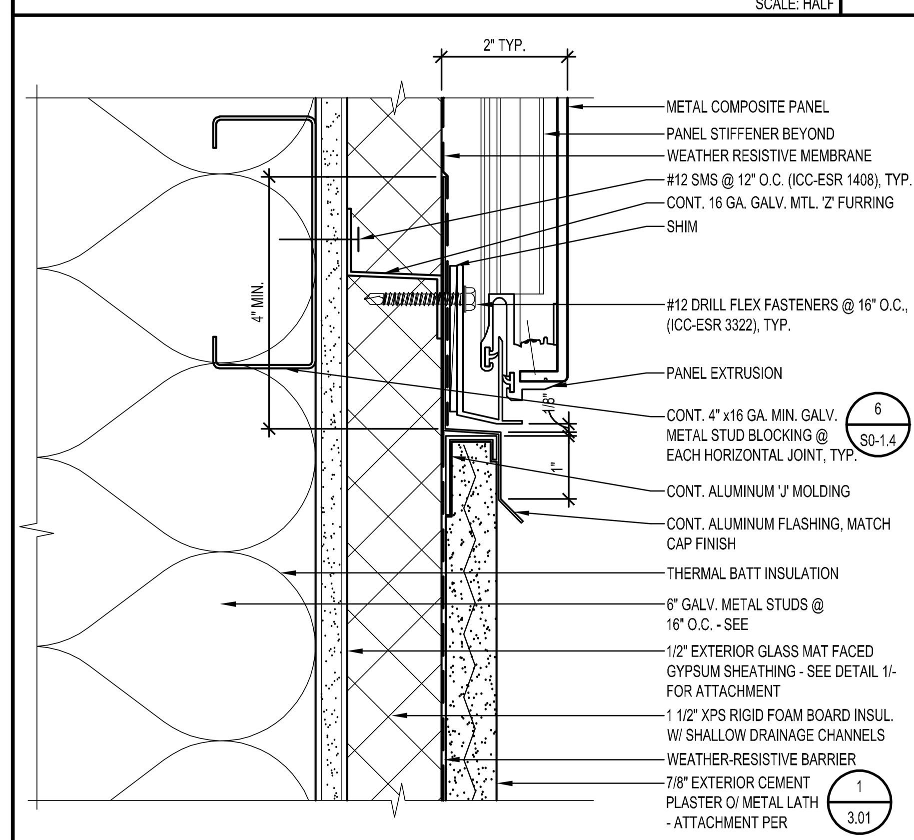
METAL COMPOSITE PANEL PLANE CHANGE 8
SCALE: 3" = 1'-0"



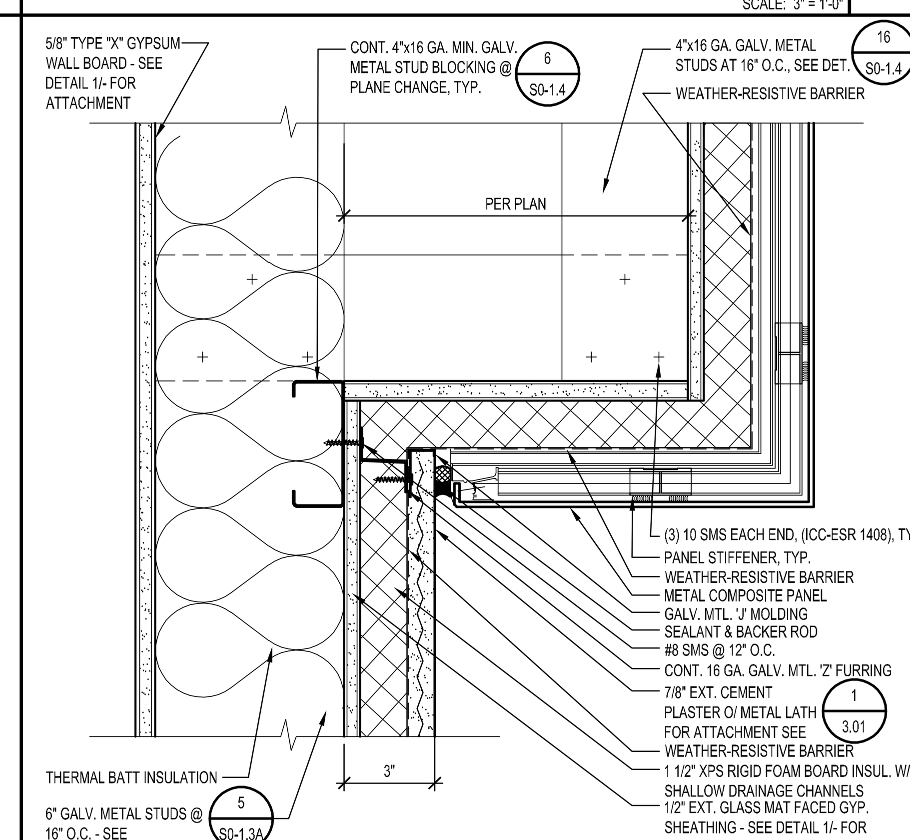
MTL. COMP. PANEL / BRICK INSIDE CORNER 9
SCALE: 3" = 1'-0"



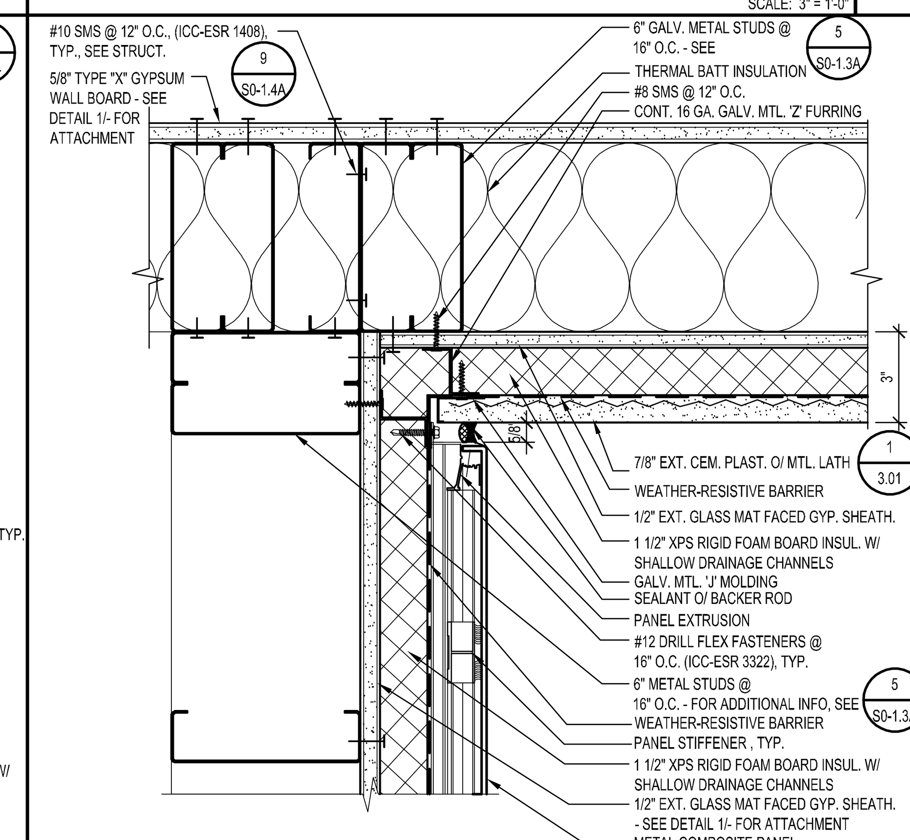
METAL COMPOSITE PANEL INSIDE CORNER 10
SCALE: 3" = 1'-0"



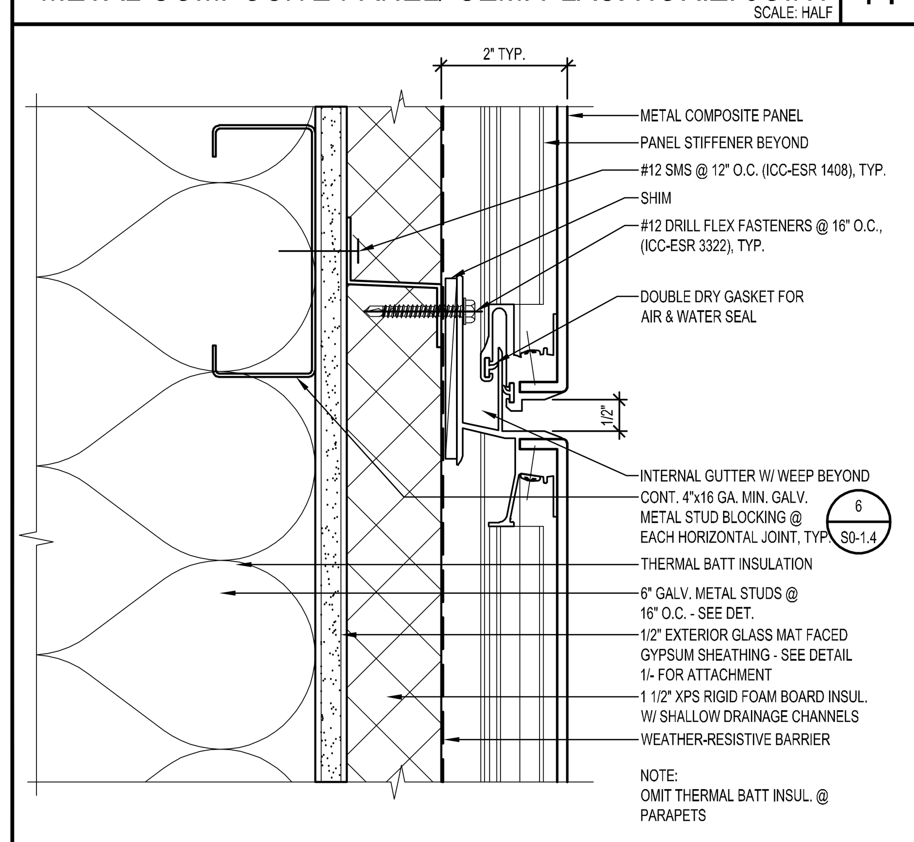
METAL COMPOSITE PANEL/ CEM. PLAS. HORIZ. JOINT 11
SCALE: HALF



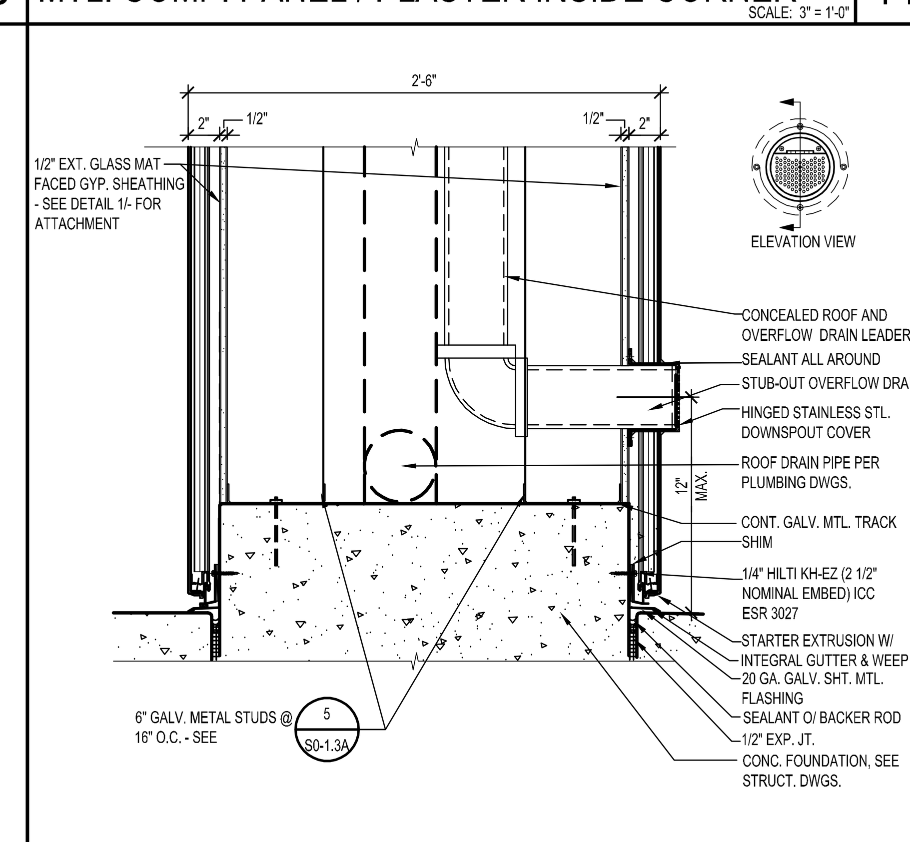
METAL COMPOSITE PANEL PLANE CHANGE 13
SCALE: 3" = 1'-0"



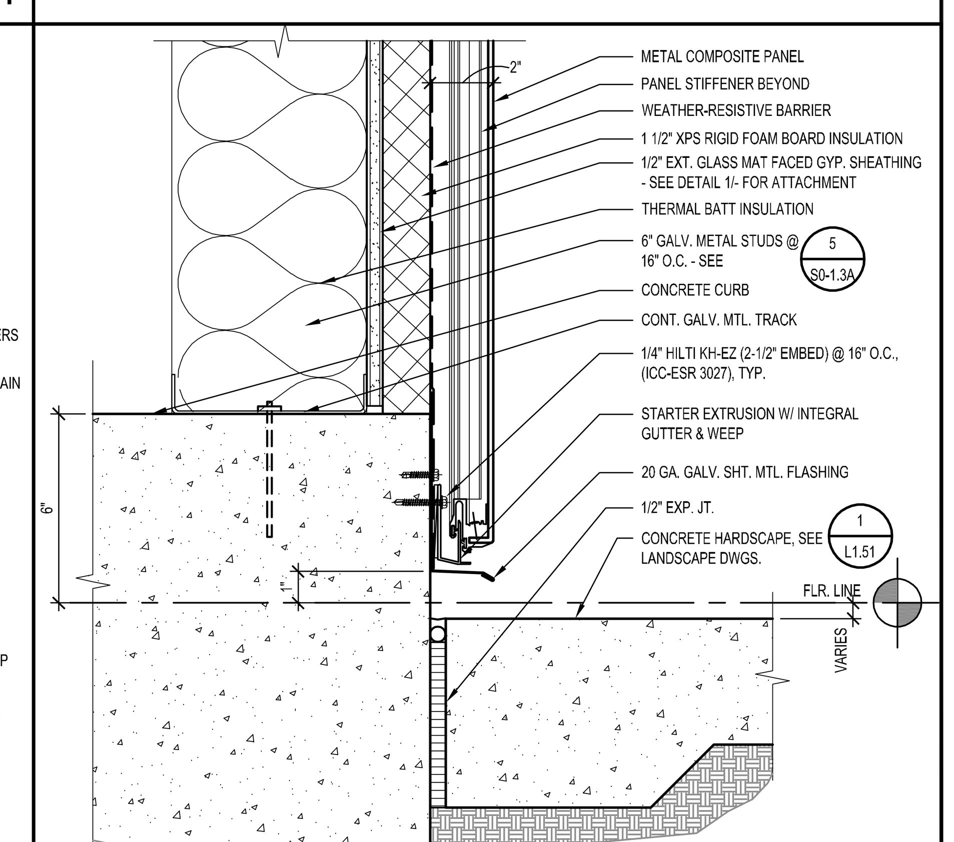
MTL. COMP. PANEL / PLASTER INSIDE CORNER 14
SCALE: 3" = 1'-0"



METAL COMPOSITE PANEL HORIZONTAL JOINT 16
SCALE: HALF



MTL. COMP. PANEL BASE @ OVERFLOW DRAIN 19
SCALE: 1-1/2" = 1'-0"



METAL COMPOSITE PANEL WALL BASE 20
SCALE: 3" = 1'-0"

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COMPTON COLLEGE
STUDENT SERVICES BLDG.

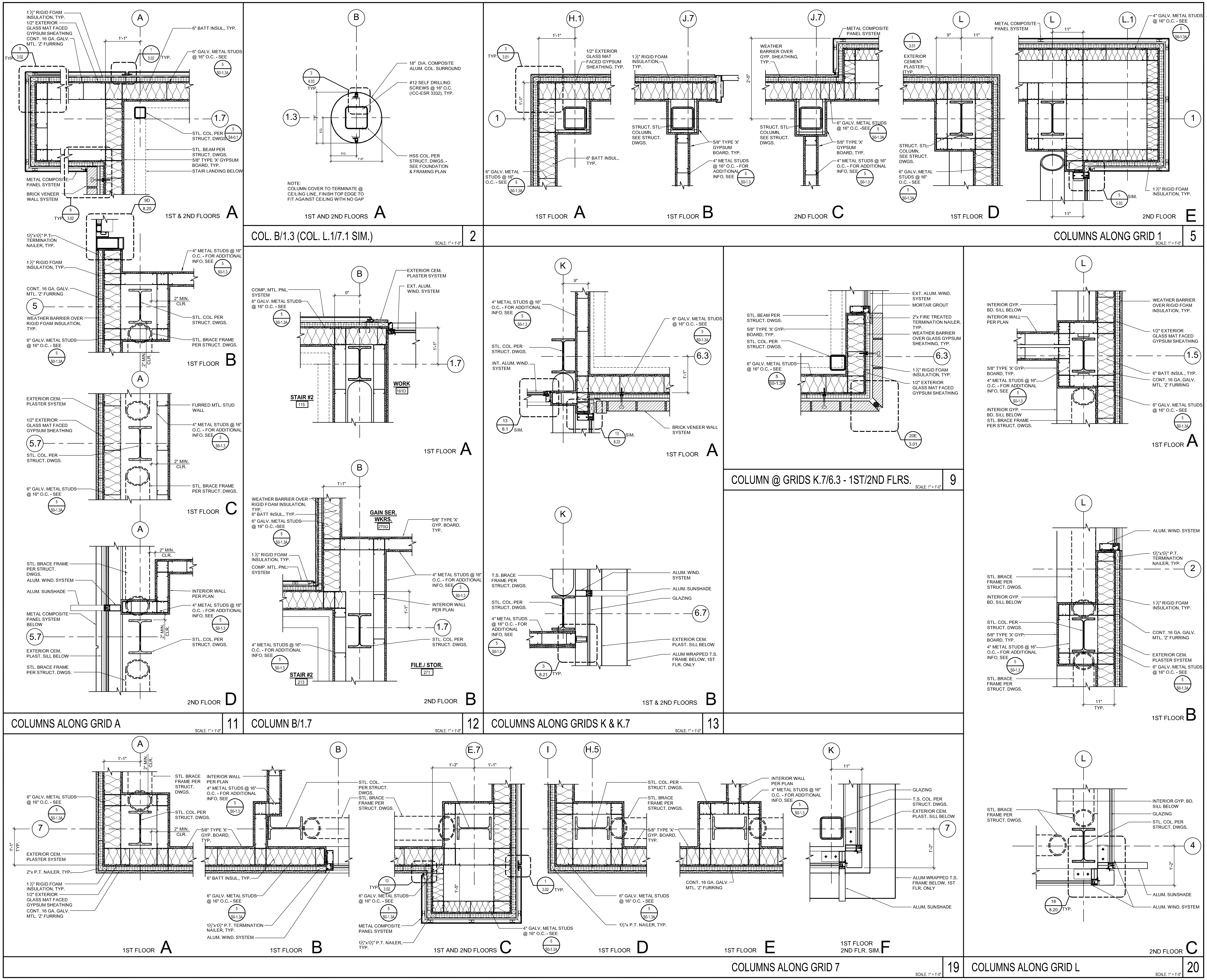
COMPTON COMMUNITY COLLEGE DISTRICT
1111 E. ARTESIA BLVD.
COMPTON, CA 90221

owner

tBP project number : 20987.00
file name: DTL-0302 EXT WALL.DWG
drawn by: tBP checked by: T. HALL
date: 9.3.2019
Rev: date: description:

drawing title:
EXTERIOR WALL - ALUM. COMP. PANEL DETAILS

drawing no.:
3.02



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COMPTON COMMUNITY COLLEGE DISTRICT
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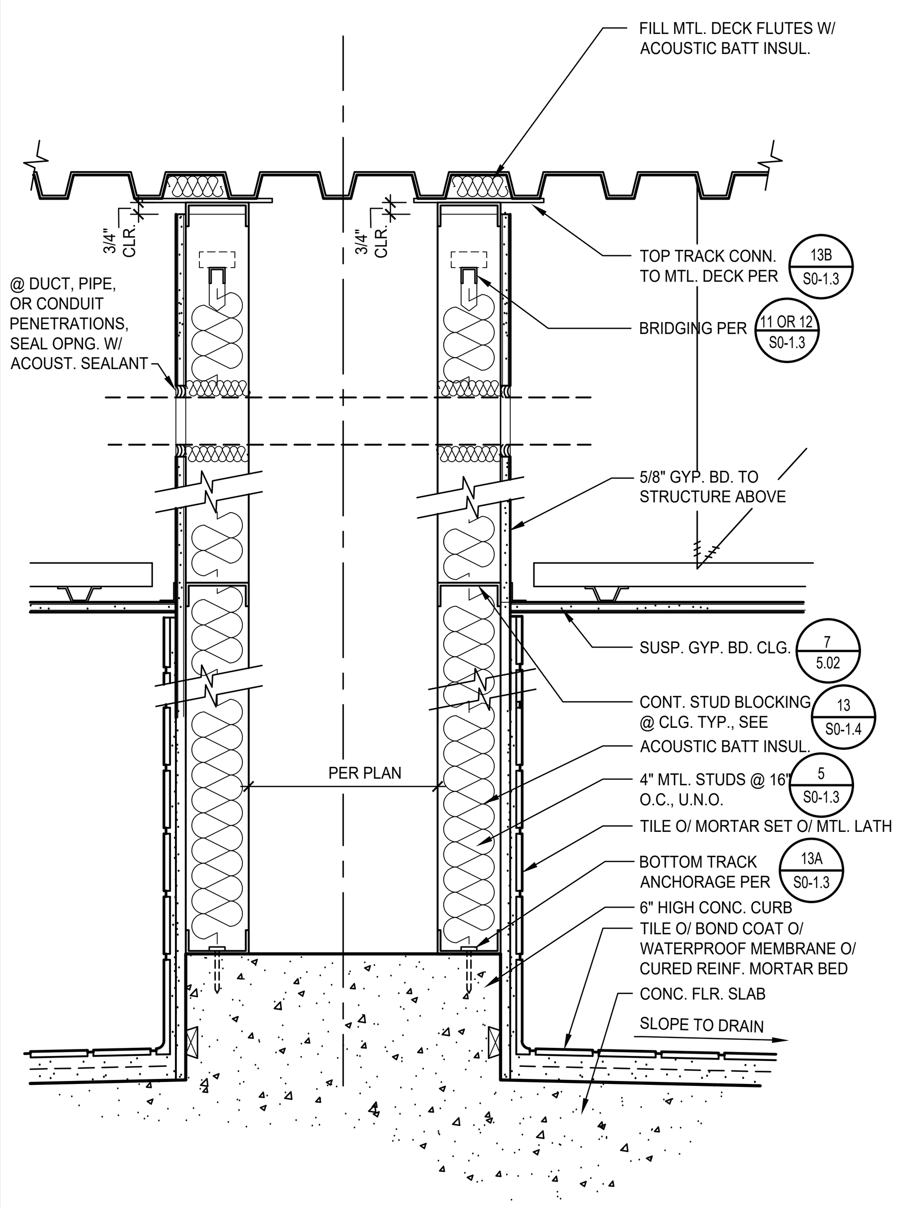
COMPTON, CA 90221

owner

tBP project number: 20987.00
file name: DTL-0811.DWG
drawn by: tBP checked by: T. HALL
date: 9.3.2019
Rev: date: description:

drawing title:
EXTERIOR COLUMNS

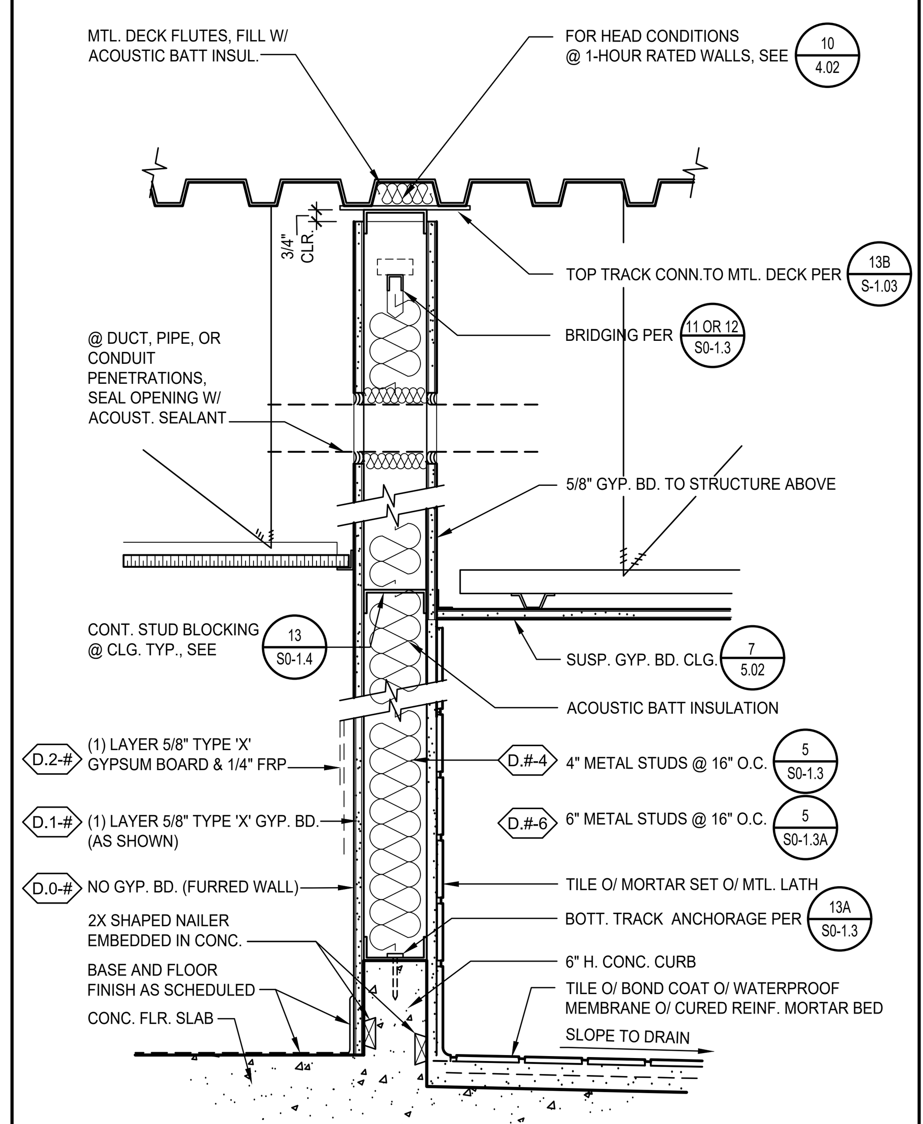
drawing no.:
3.20



WALL TYPE E-#	U.L. #: NONE FIRE RATING: NONE STC:

\# INDICATES WIDTH OF METAL STUDS

PLUMBING WALL 6
SCALE: 1-1/2" = 1'-0"

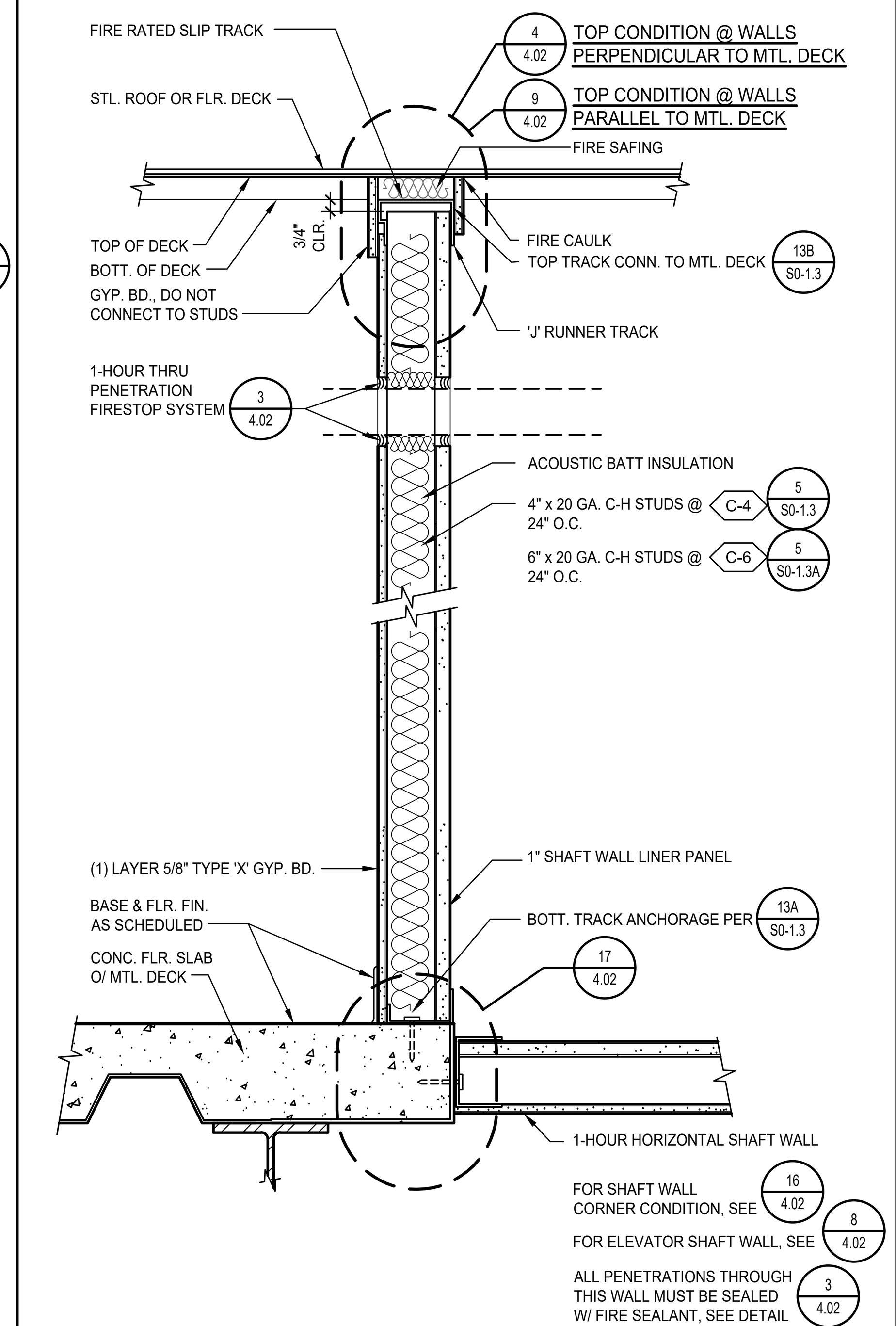


ALL PENETRATIONS THROUGH THIS WALL MUST BE SEALED W/ ACOUSTIC SEALANT, SEE DETAILS 1 4.03, 2 4.03, 6 4.03, 7 4.03, 8 4.03, 13 4.03

WALL TYPE D.2-# D.1-# D.0-#	U.L. #: NONE FIRE RATING: NONE STC:

\- # INDICATES WIDTH OF METAL STUDS

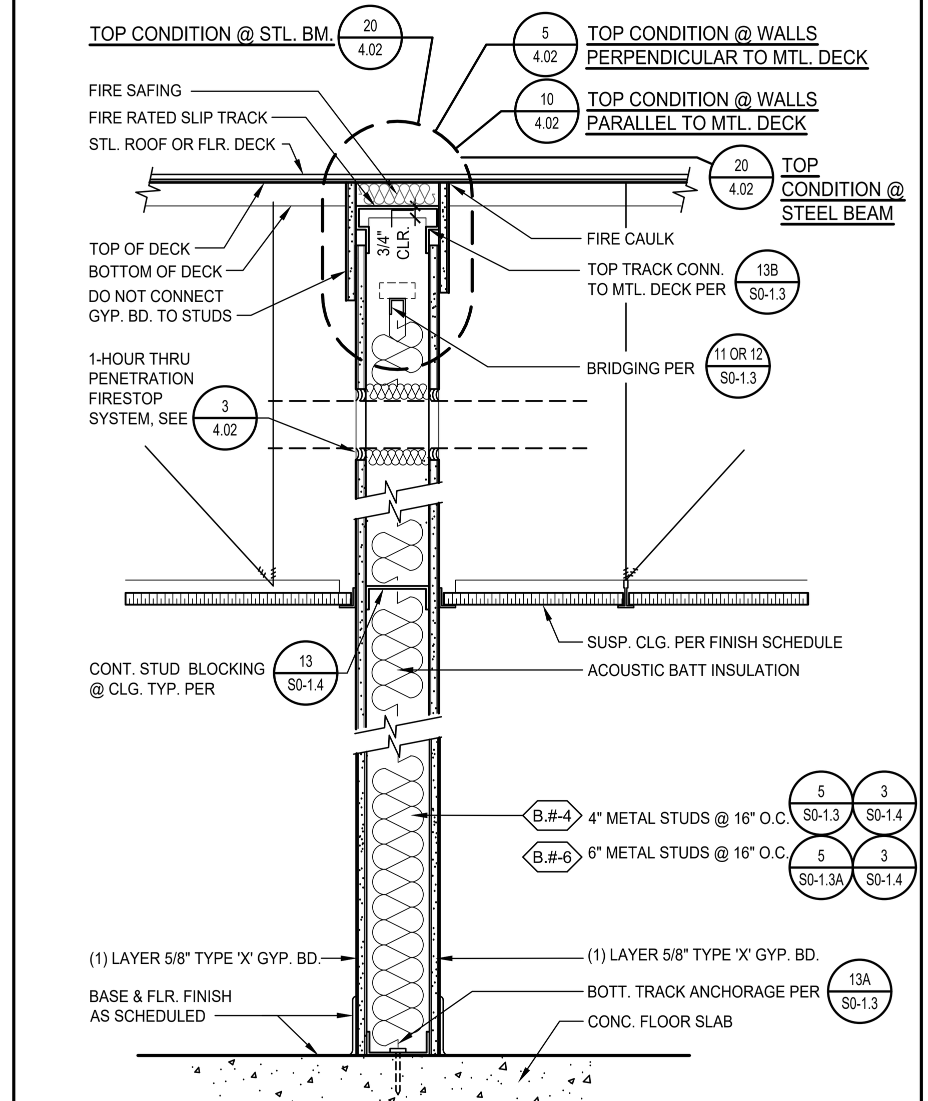
TOILET ROOM WALL 7
SCALE: 1-1/2" = 1'-0"



WALL TYPE C-#	U.L. #: U469 FIRE RATING: 1-HOUR STC:

\# INDICATES WIDTH OF METAL STUDS

1-HOUR SHAFT WALL 8
SCALE: 1-1/2" = 1'-0"

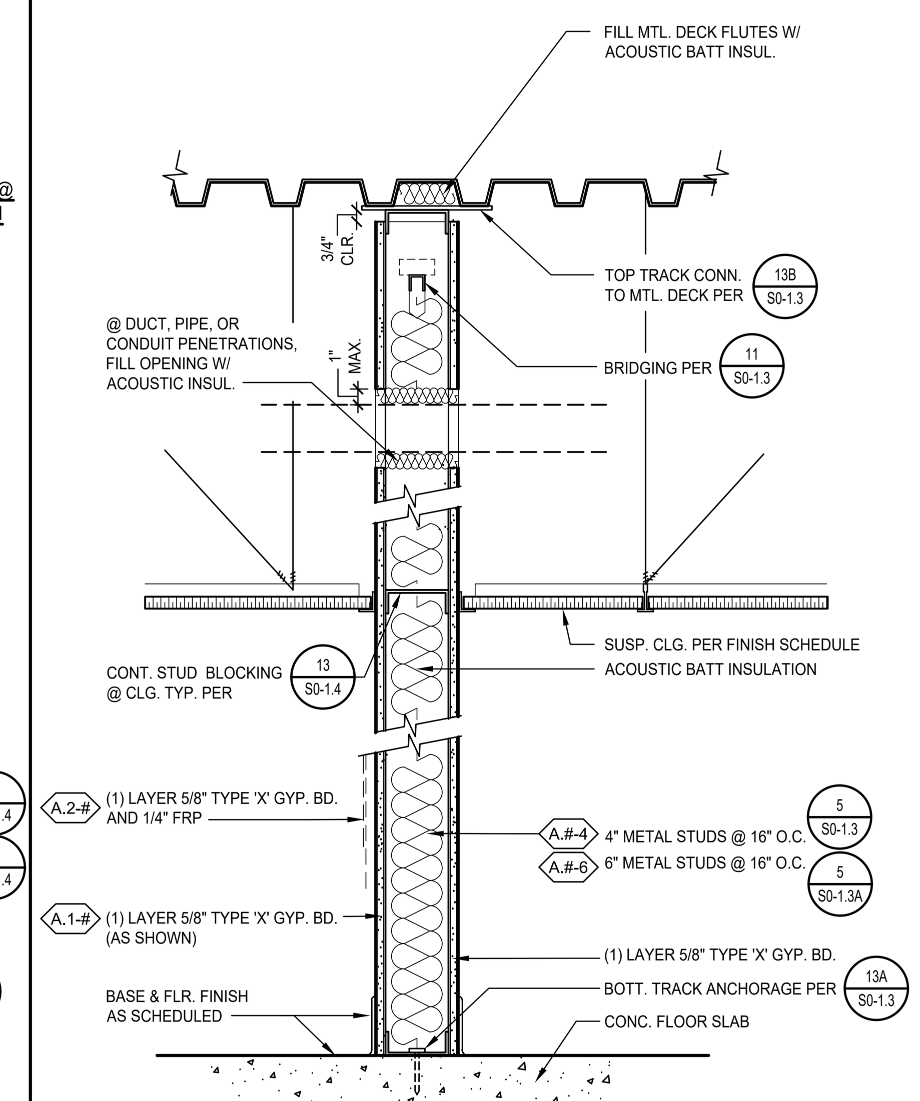


ALL PENETRATIONS THROUGH THIS WALL MUST BE SEALED W/ FIRE SEALANT, SEE 3 4.02

WALL TYPE B-#	U.L. #: U465 FIRE RATING: 1-HOUR STC:

\# INDICATES WIDTH OF METAL STUDS

1-HOUR RATED PARTITION 9
SCALE: 1-1/2" = 1'-0"

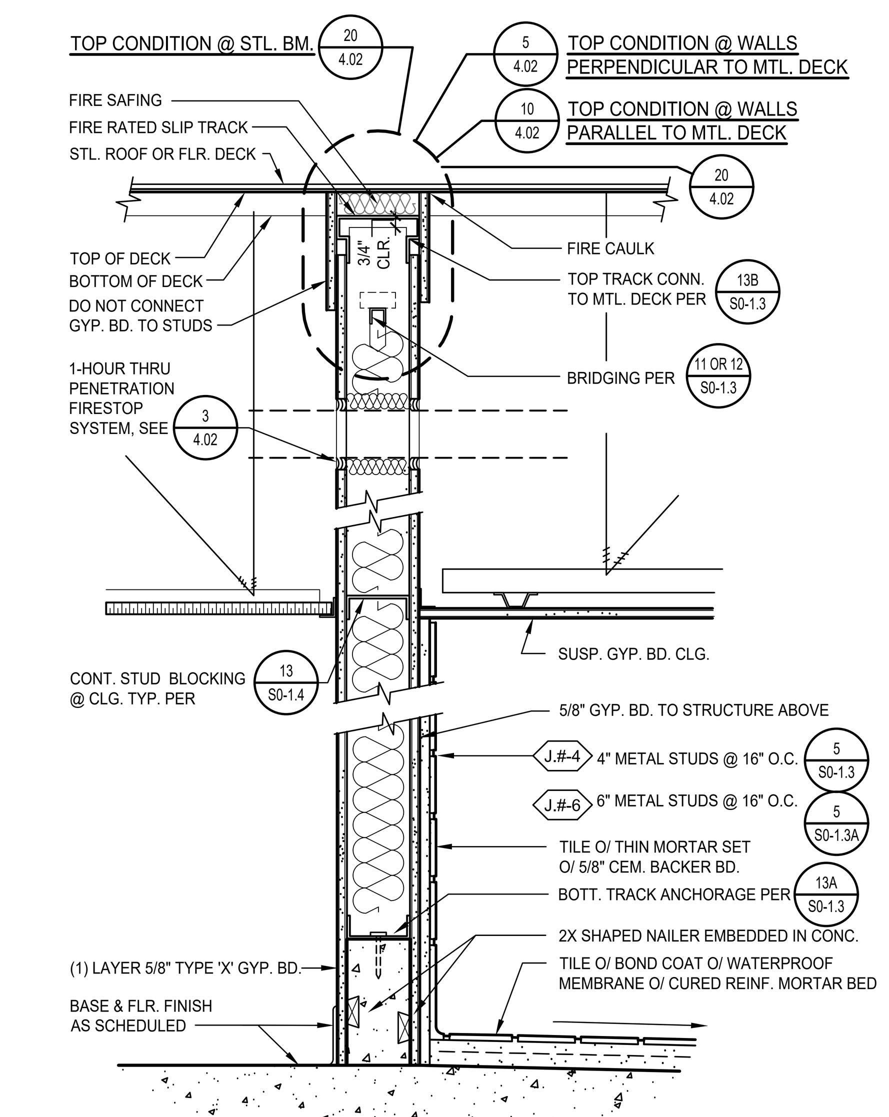


ALL PENETRATIONS THROUGH THIS WALL MUST BE SEALED W/ ACOUSTIC SEALANT, SEE DETAILS 1 4.03, 2 4.03, 6 4.03, 7 4.03, 8 4.03, 13 4.03

WALL TYPE A-#	U.L. #: NONE FIRE RATING: NONE STC:

\# INDICATES WIDTH OF METAL STUDS

TYP. METAL STUD PARTITION 10
SCALE: 1-1/2" = 1'-0"

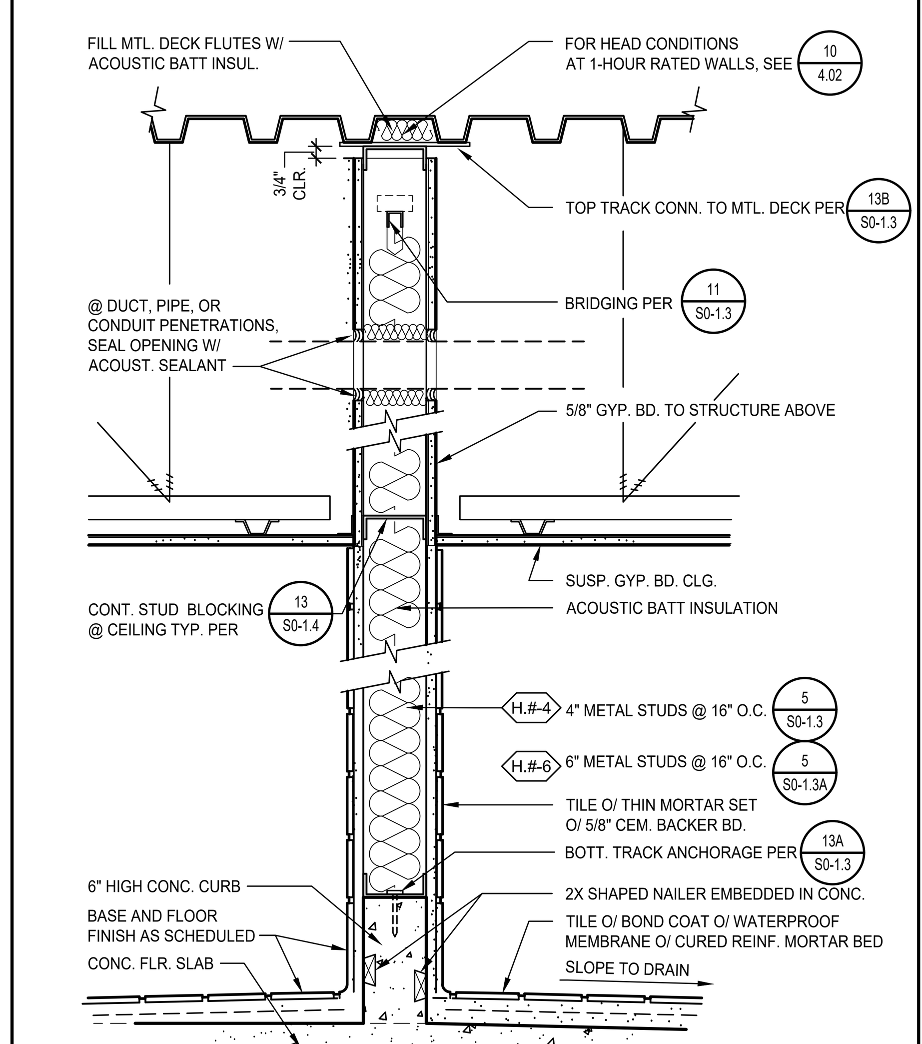


ALL PENETRATIONS THROUGH THIS WALL MUST BE SEALED W/ FIRE SEALANT, SEE 3 4.02

WALL TYPE J-#	U.L. #: U465 FIRE RATING: 1-HOUR

\# INDICATES WIDTH OF METAL STUDS

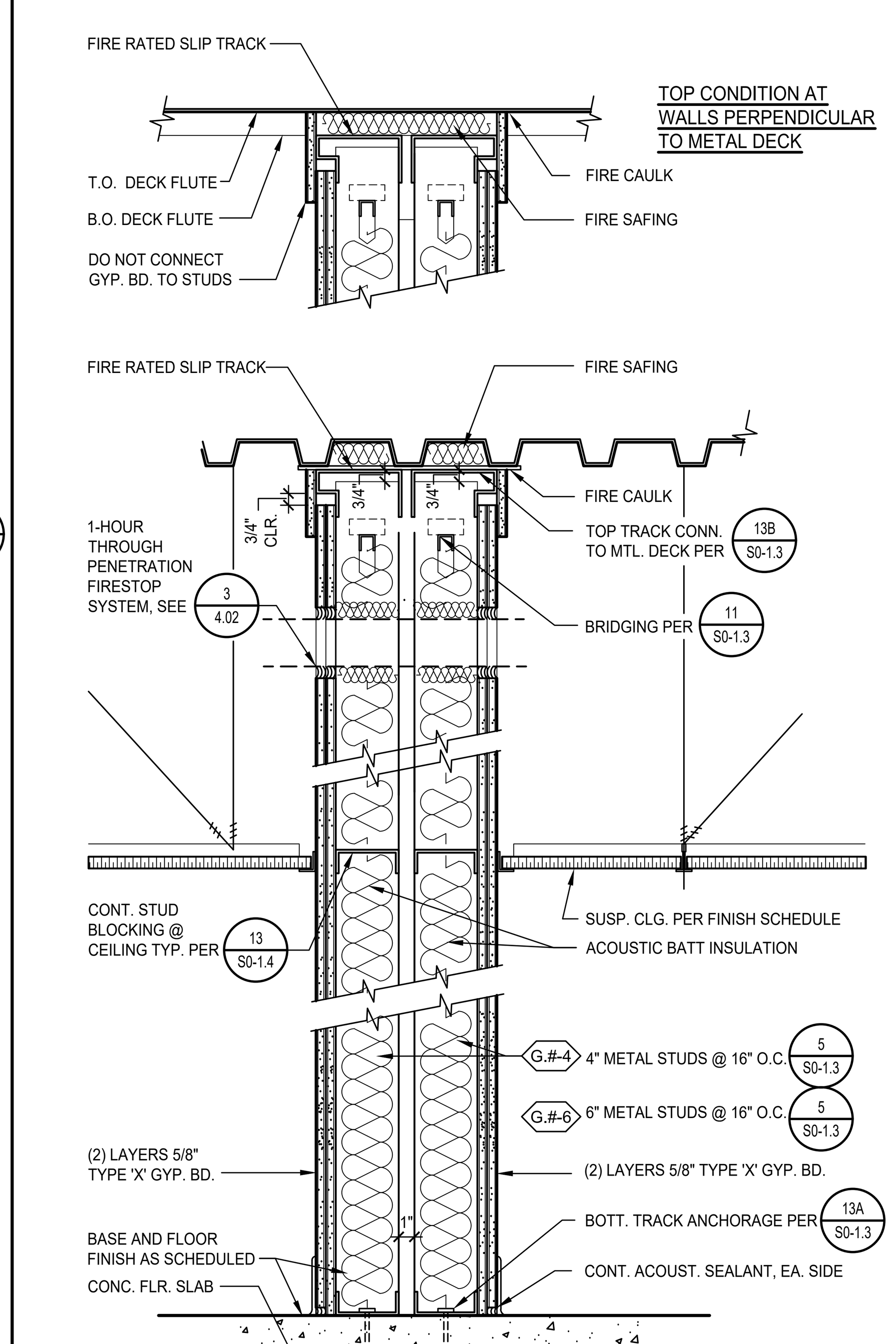
1-HR PARTITION AT TOILET ROOM 16
SCALE: 1-1/2" = 1'-0"



ALL PENETRATIONS THROUGH THIS WALL MUST BE SEALED W/ ACOUSTIC SEALANT, SEE DETAILS 1 4.03, 2 4.03, 6 4.03, 7 4.03, 8 4.03, 13 4.03

WALL TYPE H-#	U.L. #: NONE FIRE RATING: NONE STC:

TOILET ROOM WALL 17
SCALE: 1-1/2" = 1'-0"

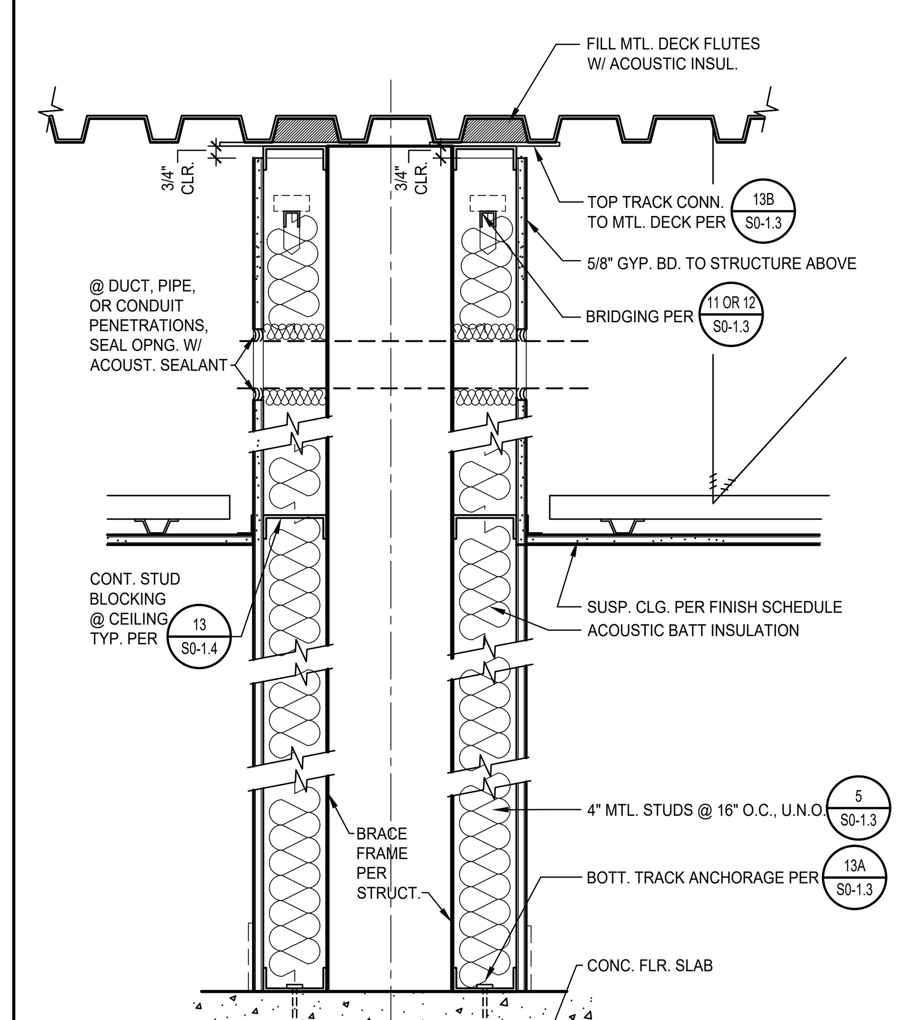


ALL PENETRATIONS THROUGH THIS WALL MUST BE SEALED W/ ACOUSTIC SEALANT, SEE DETAILS 1 4.03, 2 4.03, 6 4.03, 7 4.03, 8 4.03, 13 4.03

WALL TYPE G-#	U.L. #: U420 FIRE RATING: 1-HOUR STC: 55

\# INDICATES WIDTH OF METAL STUDS

ACOUSTICAL PARTITION (FIRE RATED) 18
SCALE: 1-1/2" = 1'-0"

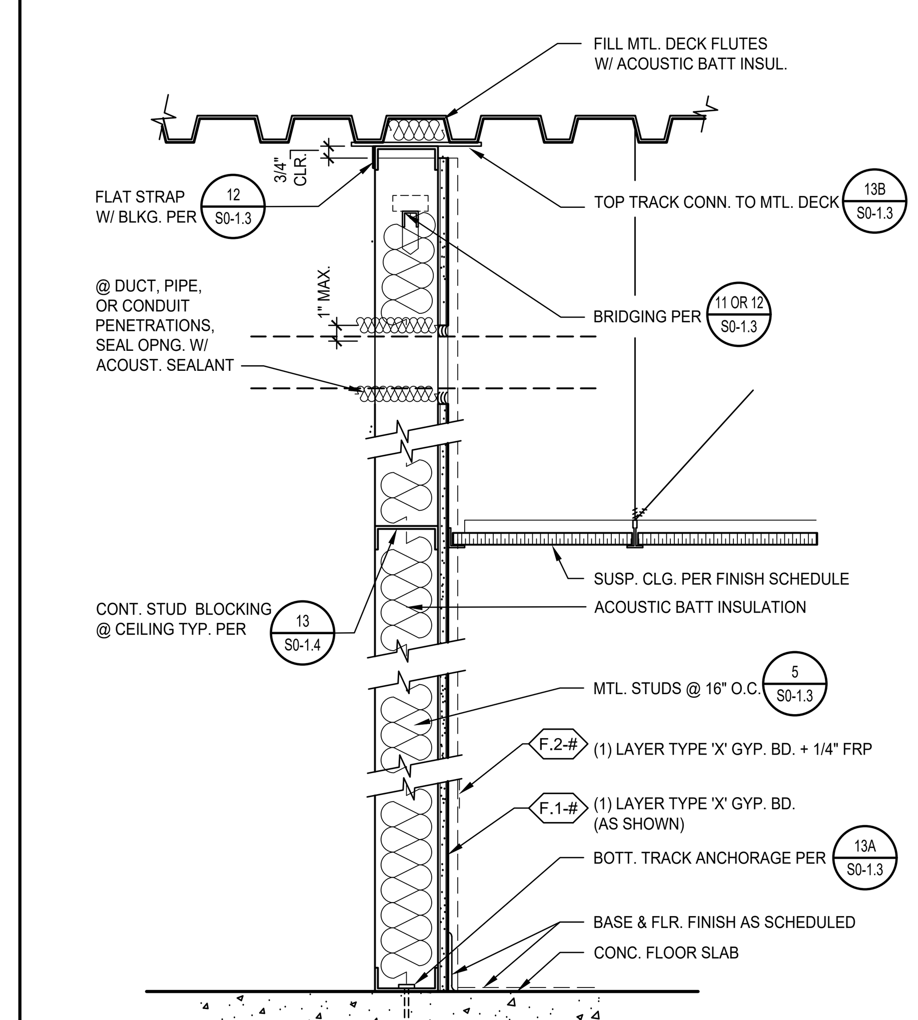


ALL PENETRATIONS THROUGH THIS WALL MUST BE SEALED W/ ACOUSTIC SEALANT, SEE DETAILS 1 4.03, 2 4.03, 6 4.03, 7 4.03, 8 4.03, 13 4.03

DOUBLE 2F-#	U.L. #: NONE FIRE RATING: NONE STC:

\# INDICATES WIDTH OF METAL STUDS

DOUBLE FURRING WALL AT BRACE FRAME 19
SCALE: 1-1/2" = 1'-0"



ALL PENETRATIONS THROUGH THIS WALL MUST BE SEALED W/ ACOUSTIC SEALANT, SEE DETAILS 1 4.03, 2 4.03, 6 4.03, 7 4.03, 8 4.03, 13 4.03

WALL TYPE F.2-# WALL TYPE F.1-#	U.L. #: NONE FIRE RATING: NONE STC:

\# INDICATES WIDTH OF METAL STUDS

TYP. MTL. STUD FURRING PARTITION 20
SCALE: 1-1/2" = 1'-0"

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COMPTON COMMUNITY COLLEGE DISTRICT
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owner

tBP project number: 20987.00
file name: DTL-0401.DWG
drawn by: tBP checked by: T. HALL
date: 9.3.2019

Rev:	date:	description:

drawing title:
METAL STUD PARTITION TYPES

drawing no.:
4.01

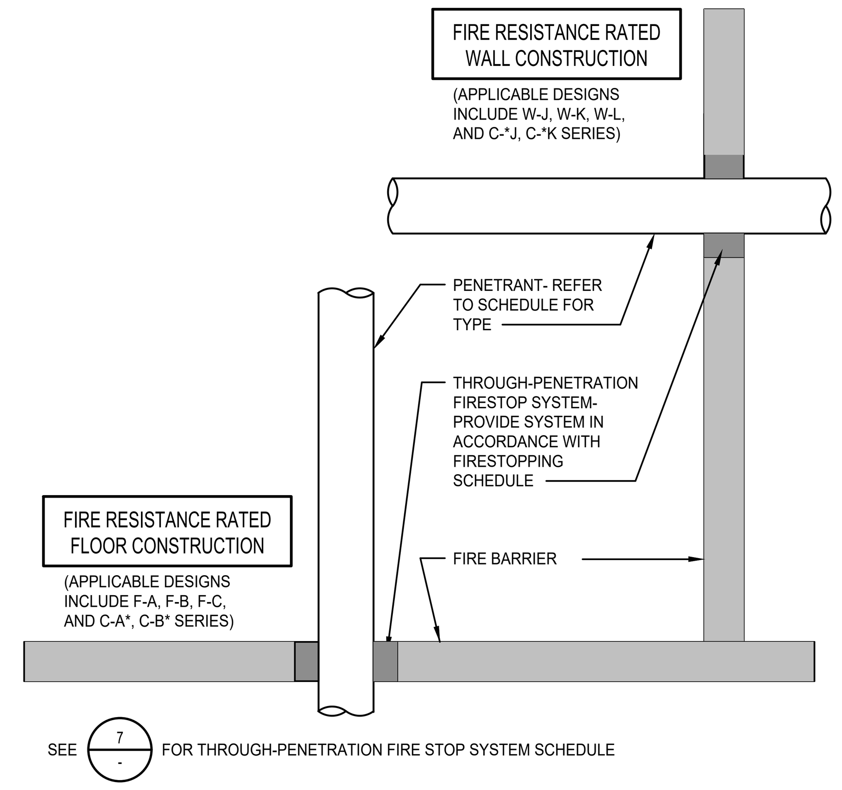
THROUGH-PENETRATION FIRESTOP SYSTEM SCHEDULE

Firestop Systems Are Listed Using the Alpha-Alpha-Numeric identification System Published in UL's Fire Resistance Directory, Vol. 2

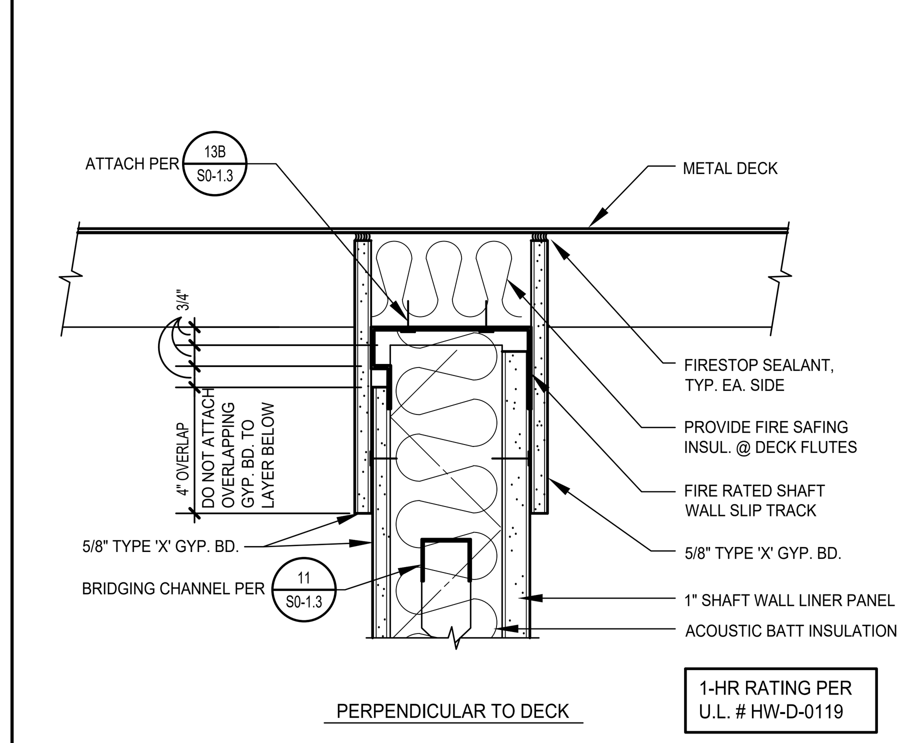
TYPE OF PENETRANT	CONSTRUCTION					
	FLOOR PENETRATION SYSTEMS (First Alpha Component = C or W)			WALL PENETRATION SYSTEMS (First Alpha Component = C or W)		
	Concrete Floors with a Minimum Thickness Less Than or Equal to 5 Inches	Concrete Floors with a Minimum Thickness Greater Than 5 Inches	Framed Floors	Concrete or Masonry Walls with a Minimum Thickness Less Than or Equal to 8 Inches	Concrete or Masonry Walls with a Minimum Thickness Greater Than 8 Inches	Framed Walls
NO PENETRATING ITEMS	C-AJ-0001-0999 OR F-A-0001-0999	C-BJ-0001-0999		C-AJ-0001-0999 OR C-BJ-0001-0999 OR W-J-0001-0999		W-L-0001-0999
METALLIC PIPE, CONDUIT, OR TUBING	C-AJ-1001-1999 OR F-A-1001-1999	C-BJ-1001-1999 OR C-BK-1001-1999 OR F-B-1001-1999	F-C-1001-1999	C-AJ-1001-1999 OR C-BJ-1001-1999 OR W-J-1001-1999	C-BK-1001-1999 OR W-K-1001-1999	W-L-1001-1999
NONMETALLIC PIPE, CONDUIT, OR TUBING	C-AJ-2001-2999 OR F-A-2001-2999	C-BJ-2001-2999 OR F-B-2001-2999	F-C-2001-2999	C-AJ-2001-2999 OR C-BJ-2001-2999 OR W-J-2001-2999		W-L-2001-2999
ELECTRICAL CABLES	C-AJ-3001-3999 OR F-A-3001-3999	C-BJ-3001-3999 OR F-B-3001-3999	F-C-3001-3999	C-AJ-3001-3999 OR C-BJ-3001-3999 OR W-J-3001-3999		W-L-3001-3999
CABLE TRAYS WITH ELECTRICAL CABLES	C-AJ-4001-4999 OR F-A-4001-4999	C-BJ-4001-4999		C-AJ-4001-4999 OR C-BJ-4001-4999 OR W-J-4001-4999	W-K-4001-4999	W-L-4001-4999
INSULATED PIPES	C-AJ-5001-5999 OR F-A-5001-5999	C-BJ-5001-5999	F-C-5001-5999	C-AJ-5001-5999 OR W-J-5001-5999		W-L-5001-5999
MISC. ELECTRICAL PENETRANTS	C-AJ-6001-6999 OR F-A-6001-6999			C-AJ-6001-6999		W-L-6001-6999
MISC. MECHANICAL PENETRANTS	C-AJ-7001-7999		F-C-7001-7999	C-AJ-7001-7999 OR W-J-7001-7999		W-L-7001-7999
GROUPINGS OF PENETRATIONS	C-AJ-8001-8999 OR F-A-8001-8999	C-BJ-8001-8999	F-C-8001-8999	C-AJ-8001-8999 OR C-BJ-8001-8999 OR W-J-8001-8999		W-L-8001-8999

FOR EACH LOCATION WHERE A FIRE-RESISTANCE-RATED FLOOR OR WALL ASSEMBLY IS PENETRATED, PROVIDE A UL-LISTED THROUGH-PENETRATION FIRESTOP SYSTEM SELECTED FROM THE APPLICABLE UL NUMBER RANGE LISTED ABOVE THAT COMPLIES WITH SPECIFICATION SECTION 07 84 00 'THROUGH-PENETRATION FIRESTOP SYSTEMS' AND IS SUITABLE FOR THE PENETRATION CONDITIONS INDICATED FOR THE PROJECT.

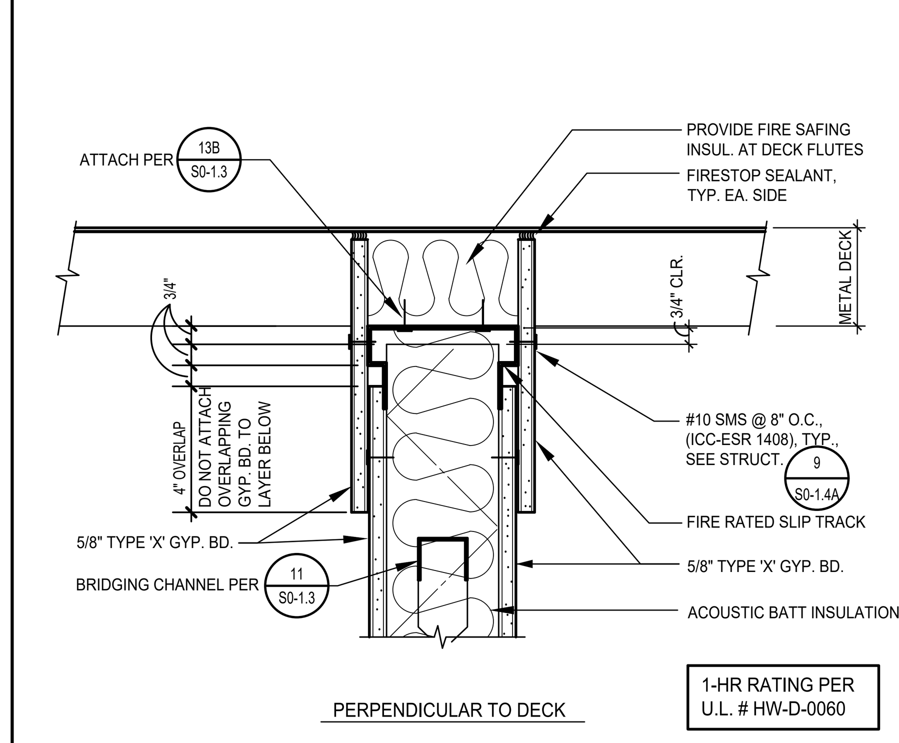
FIRESTOP SYSTEM SCHEDULE 7



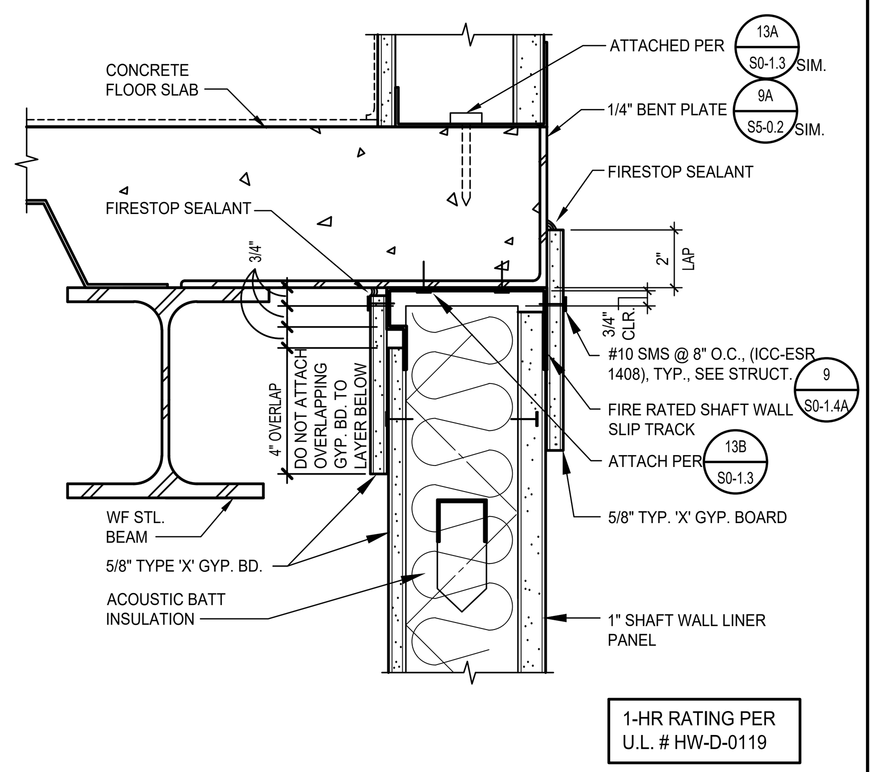
FIRESTOP SYSTEMS KEY 3



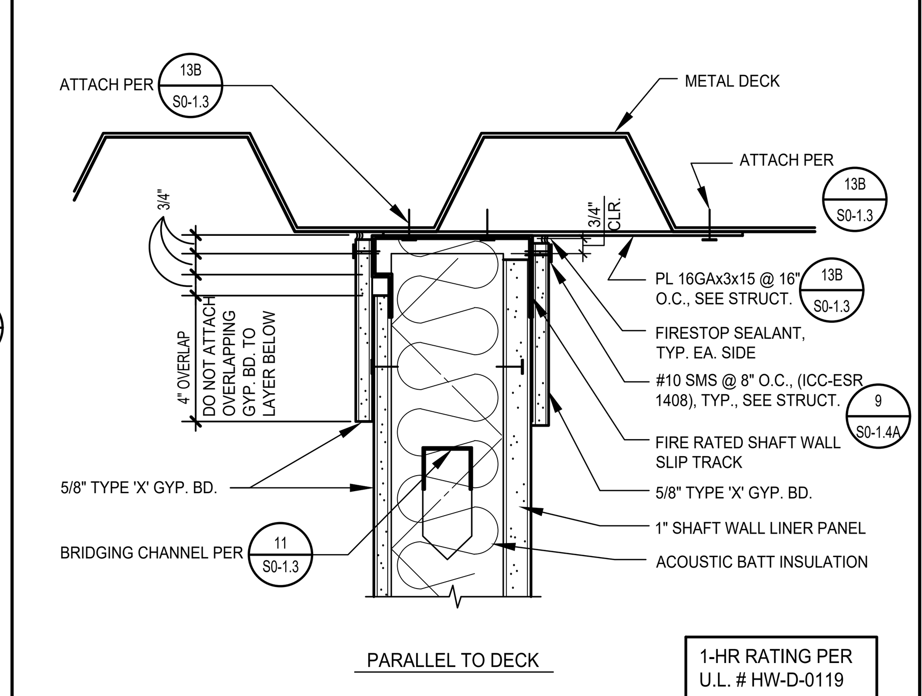
1-HR. SHAFTWALL TOP CONNECTION 4 SCALE: 3" = 1'-0"



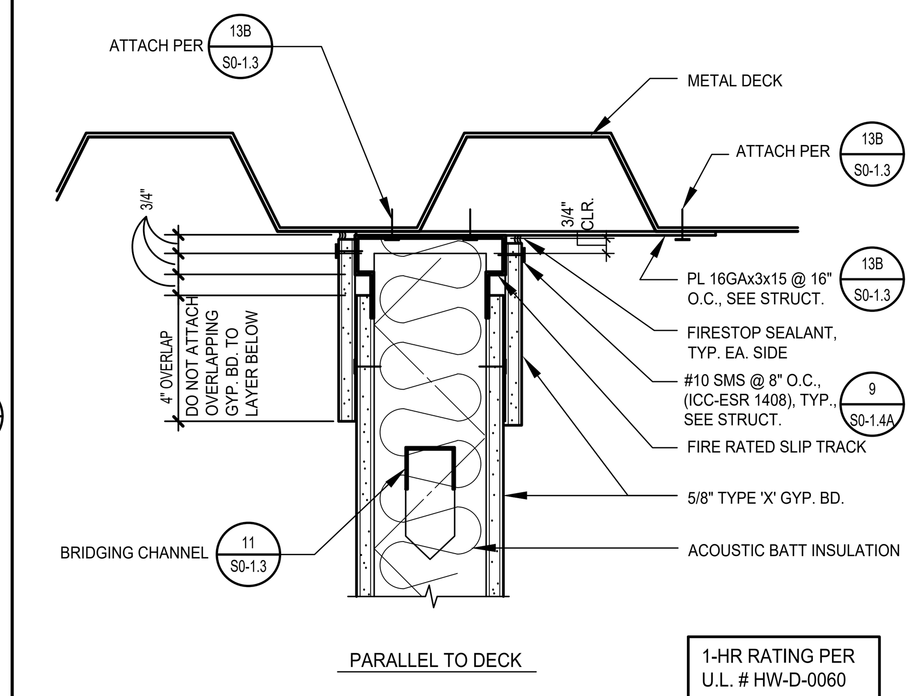
1-HR. PARTITION TOP CONNECTION 5 SCALE: 3" = 1'-0"



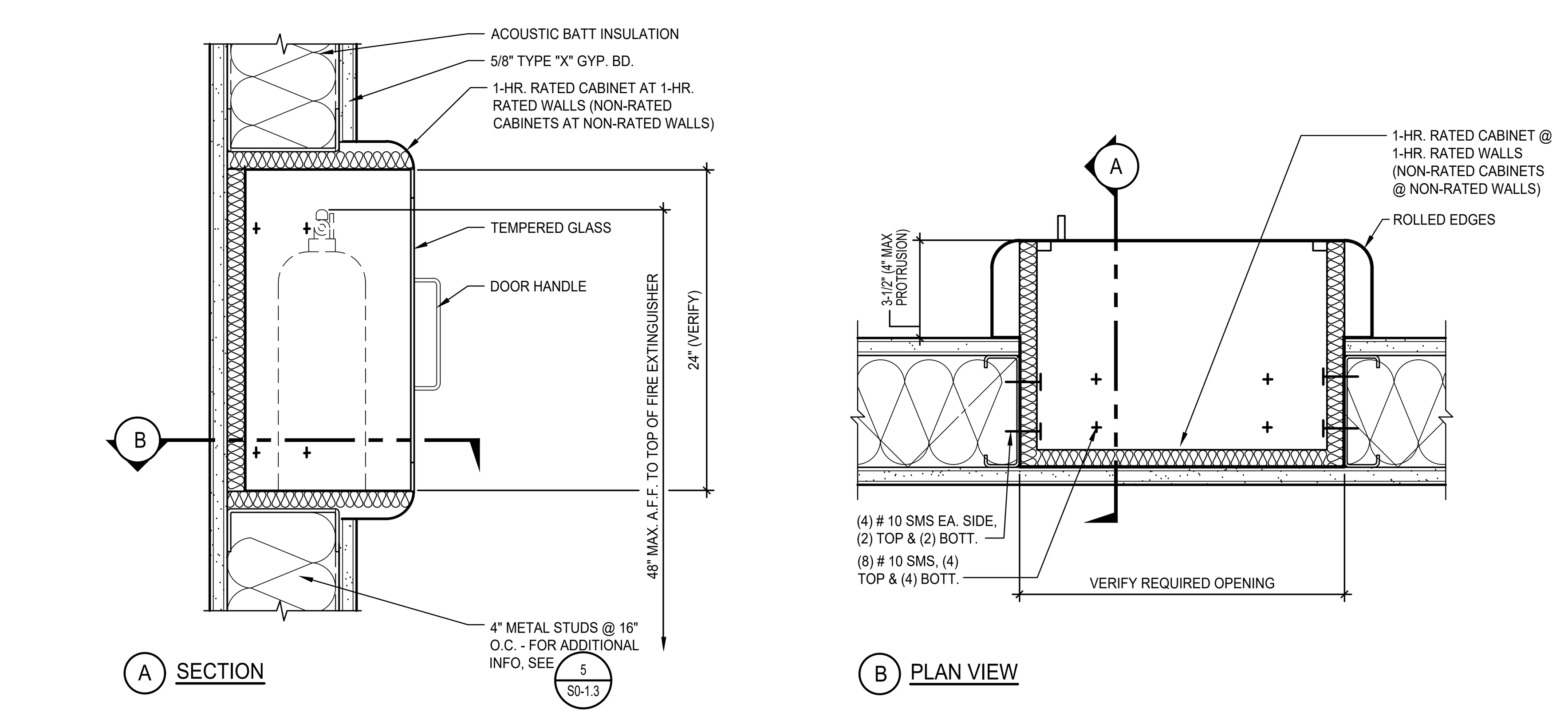
1-HR. RATED PARTITION @ ELEVATOR SHAFT 8 SCALE: 3" = 1'-0"



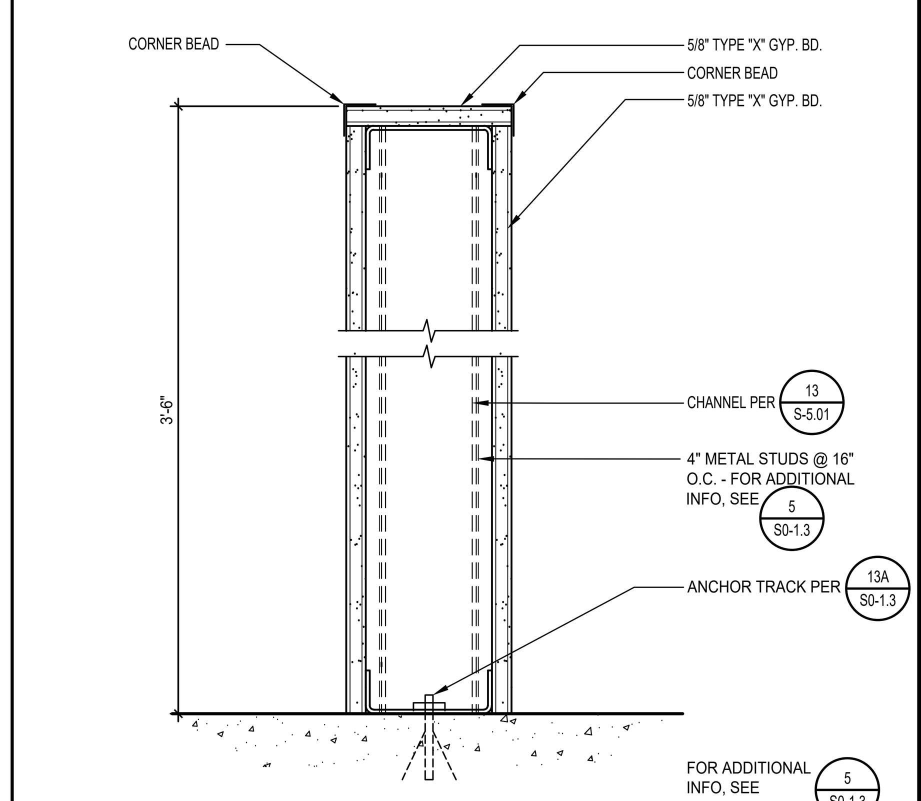
1-HR. SHAFTWALL TOP CONNECTION 9 SCALE: 3" = 1'-0"



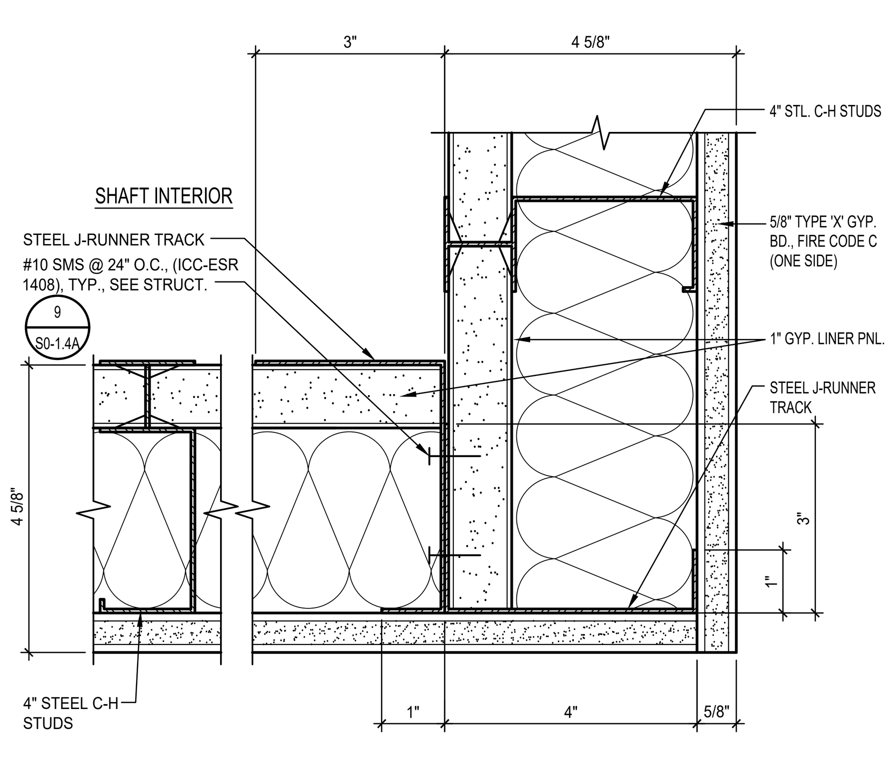
1-HR. PARTITION TOP CONNECTION 10 SCALE: 3" = 1'-0"



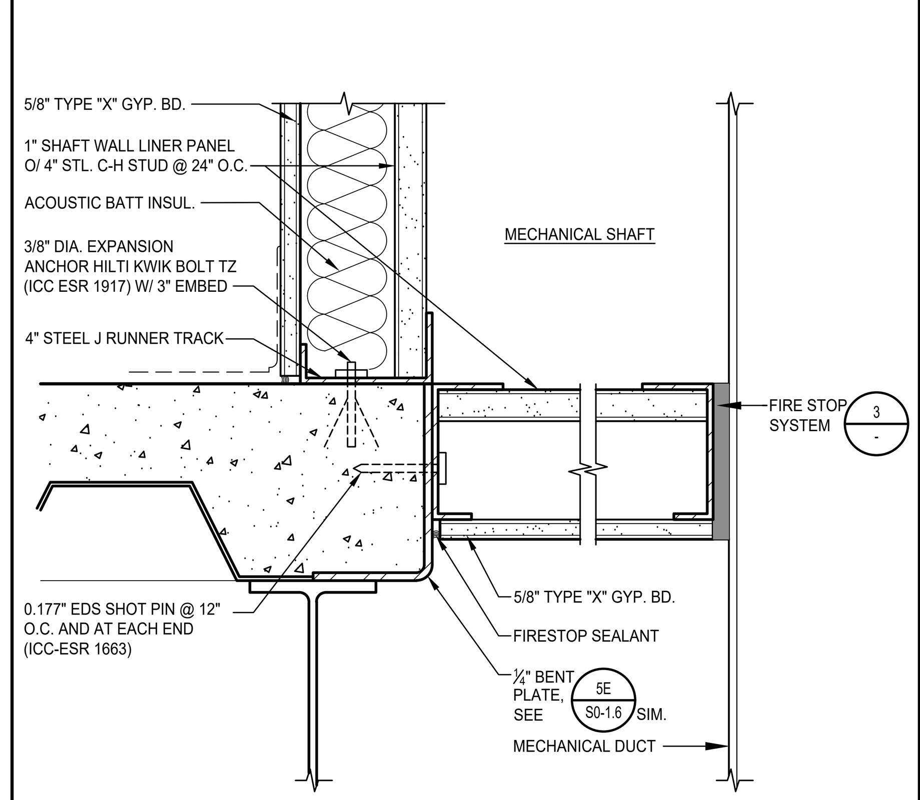
FIRE EXTINGUISHER CABINET IN METAL STUD PARTITION 12 SCALE: 3" = 1'-0"



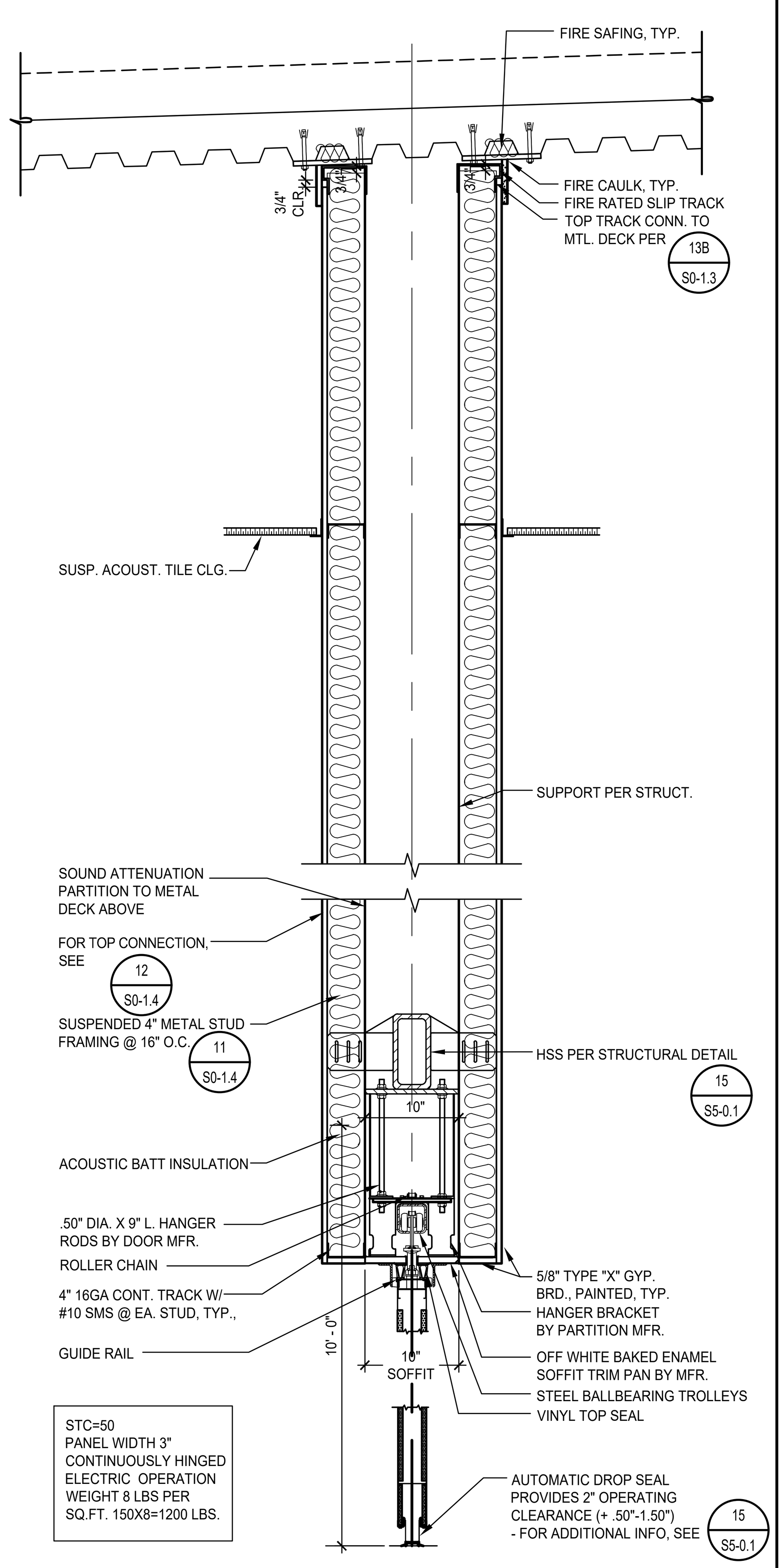
PARTIAL HEIGHT WALL 15 SCALE: 3" = 1'-0"



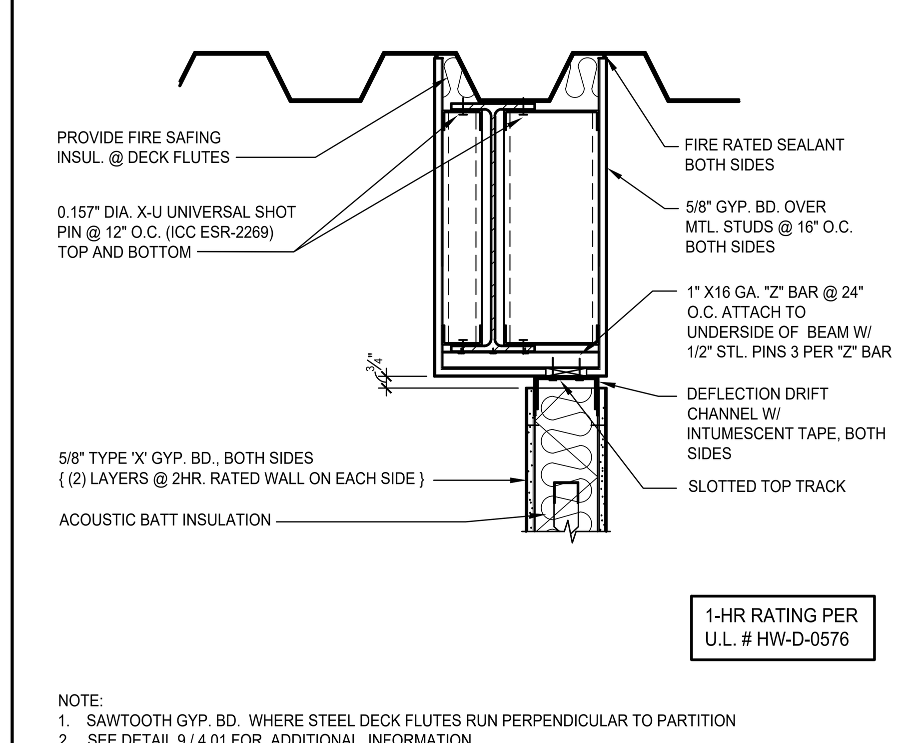
SHAFT WALL CORNER DETAIL 16 SCALE: HALF



1-HR. HORIZONTAL SHAFTWALL 17 SCALE: 3" = 1'-0"



OPERABLE PARTITION VERTICAL SECTION 18 SCALE: 1" = 1'-0"



NOTE:
1. SAWTOOTH GYP. BD. WHERE STEEL DECK FLUTES RUN PERPENDICULAR TO PARTITION
2. SEE DETAIL 9 / 4.01 FOR ADDITIONAL INFORMATION

FIRE RATED WALL UNDER STEEL BEAM 20 SCALE: 1-1/2" = 1'-0"

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APP. 03-119686 INC:
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DATE: 10/14/2019

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COMPTON COMMUNITY COLLEGE DISTRICT
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COMPTON, CA 90221

owner

tBP project number : 20987.00

file name: DTL-0402.DWG

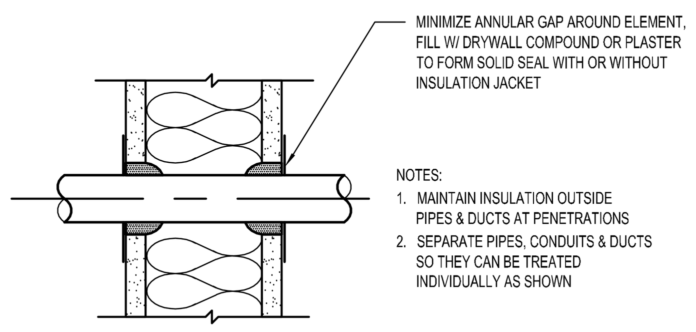
drawn by: tBP checked by: T. HALL

date: 9.3.2019

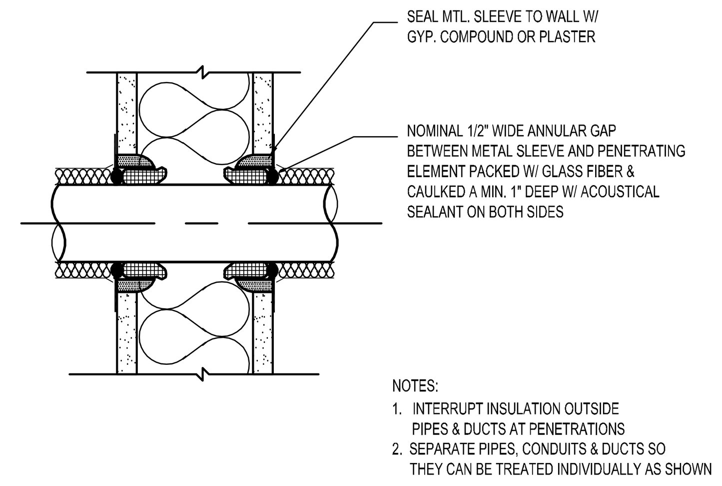
Rev:	date:	description:

drawing title:
METAL STUD PARTITION FIRESTOP DETAILS

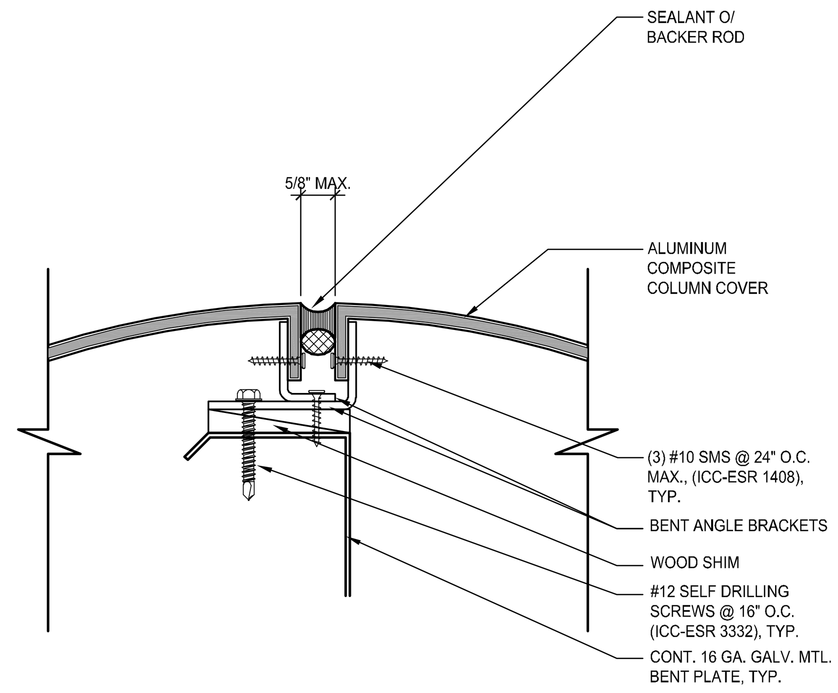
drawing no.:
4.02



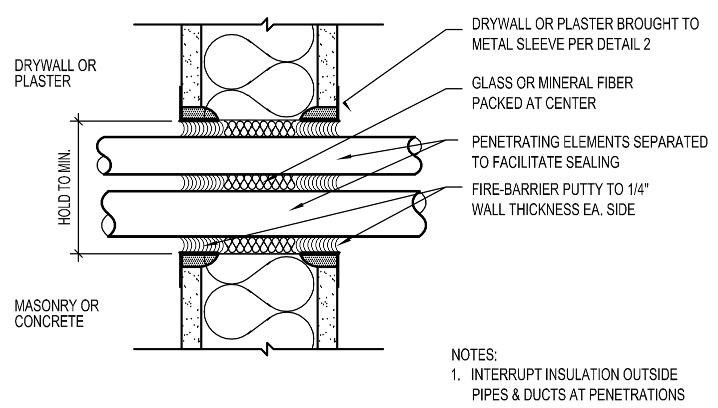
RIGIDLY SUPPORTED PIPE, CONDUIT OR DUCT THROUGH DRYWALL OR PLASTER — 1



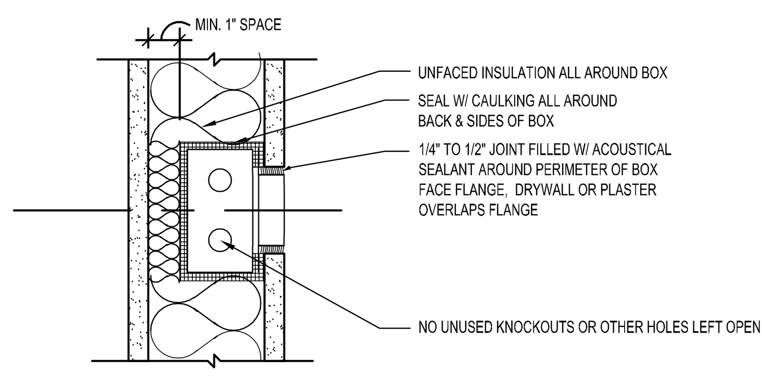
ALL RESILIENTLY SUPPORTED PIPES, DUCTS & CONDUITS THROUGH DRYWALL OR PLASTER — 2



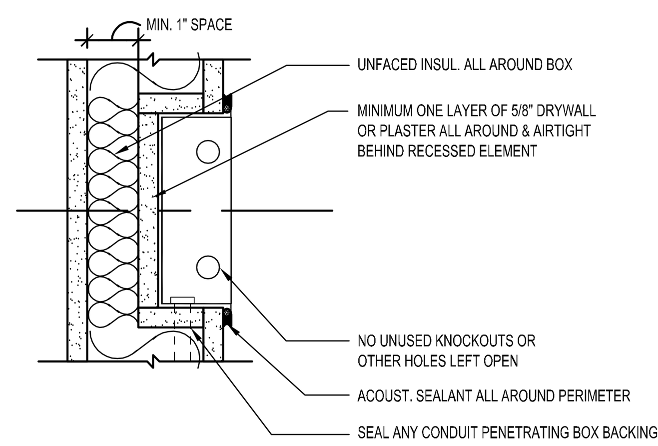
EXTERIOR COLUMN COVER DETAIL — SCALE: 6" = 1'-0" — 3



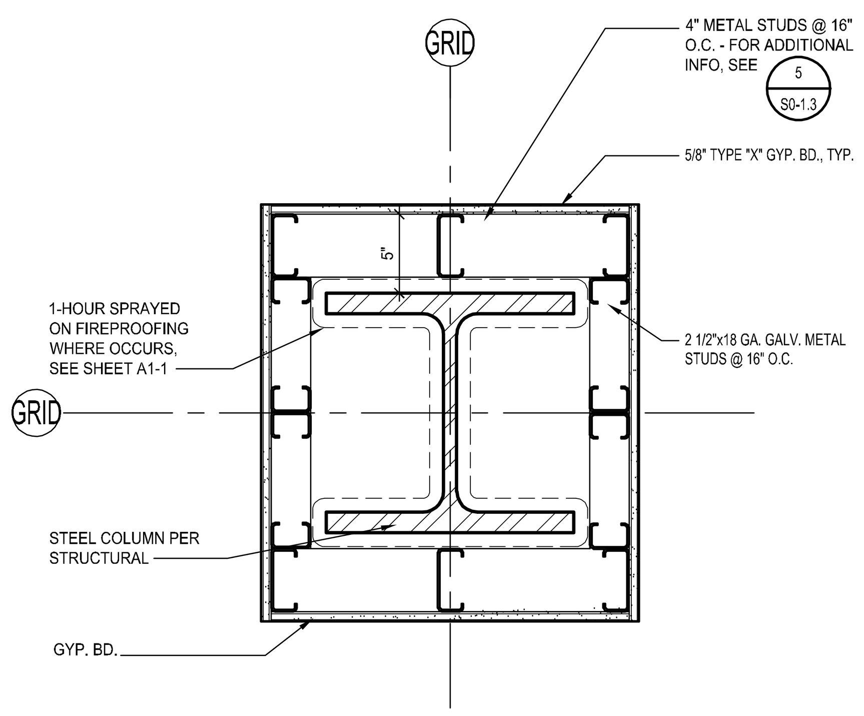
MULTIPLE PIPES OR CONDUITS THRU DRYWALL, PLASTER, MASONRY OR CONCRETE — 6



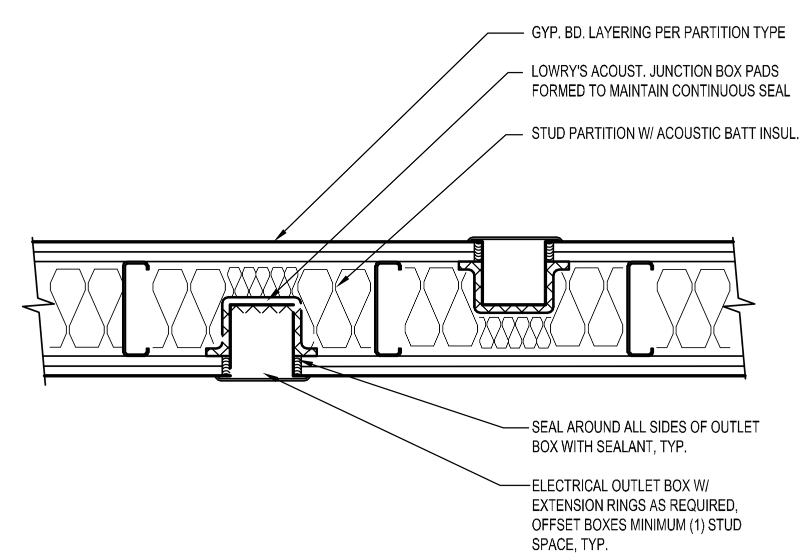
ELECTRICAL BOX UP TO 4" x 8" IN GYP. BD. OR PLASTER — 7



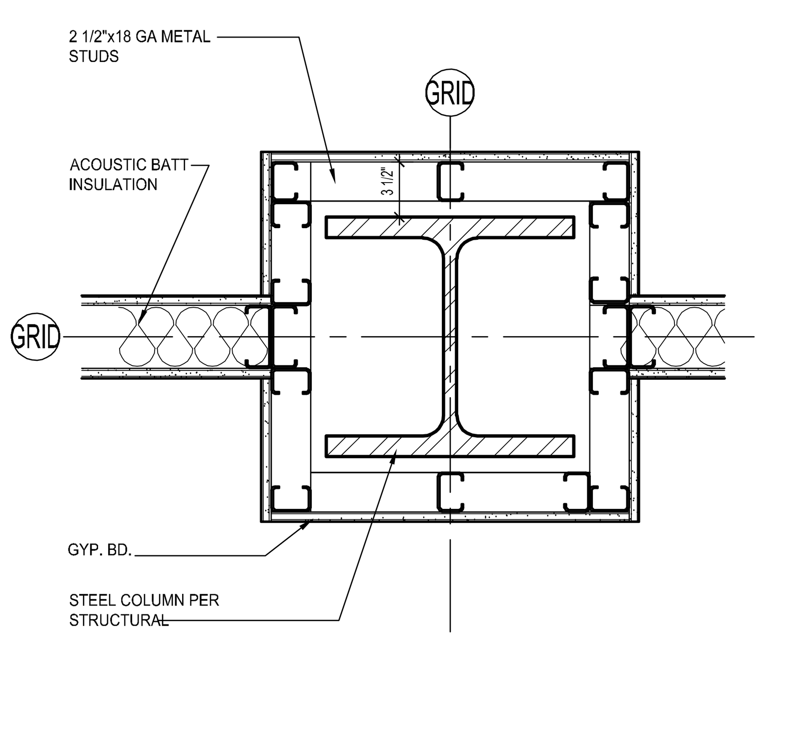
ELECTRICAL BOX OVER 4"x 8" CABINET, FIXTURE, ACCESSORY IN DRYWALL OR PLASTER — 8



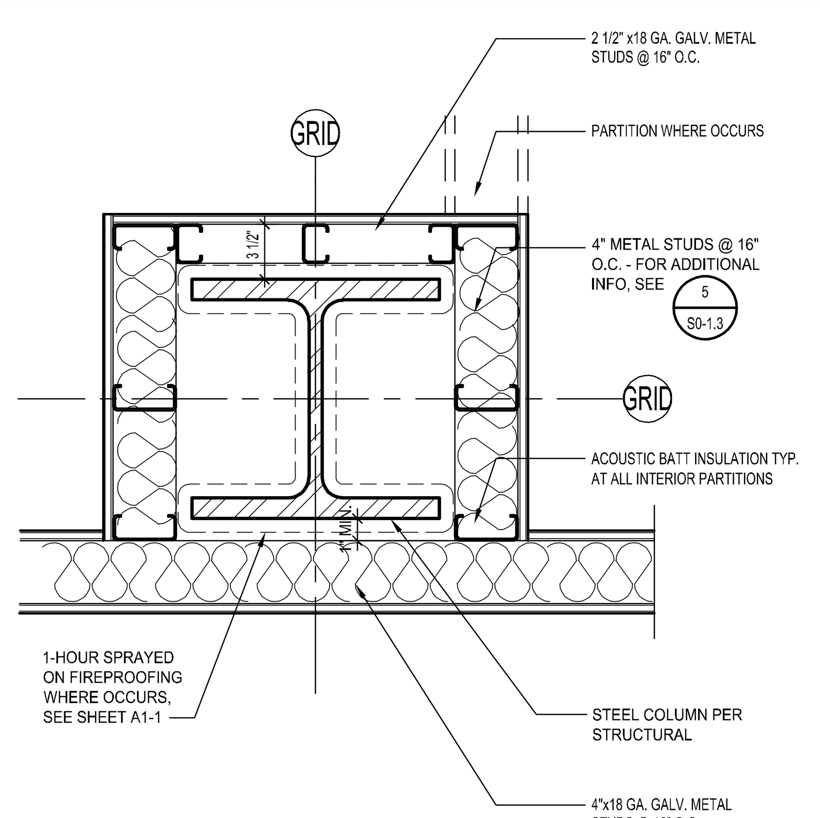
COLUMN DETAIL — SCALE: 1 1/2" = 1'-0" — 11



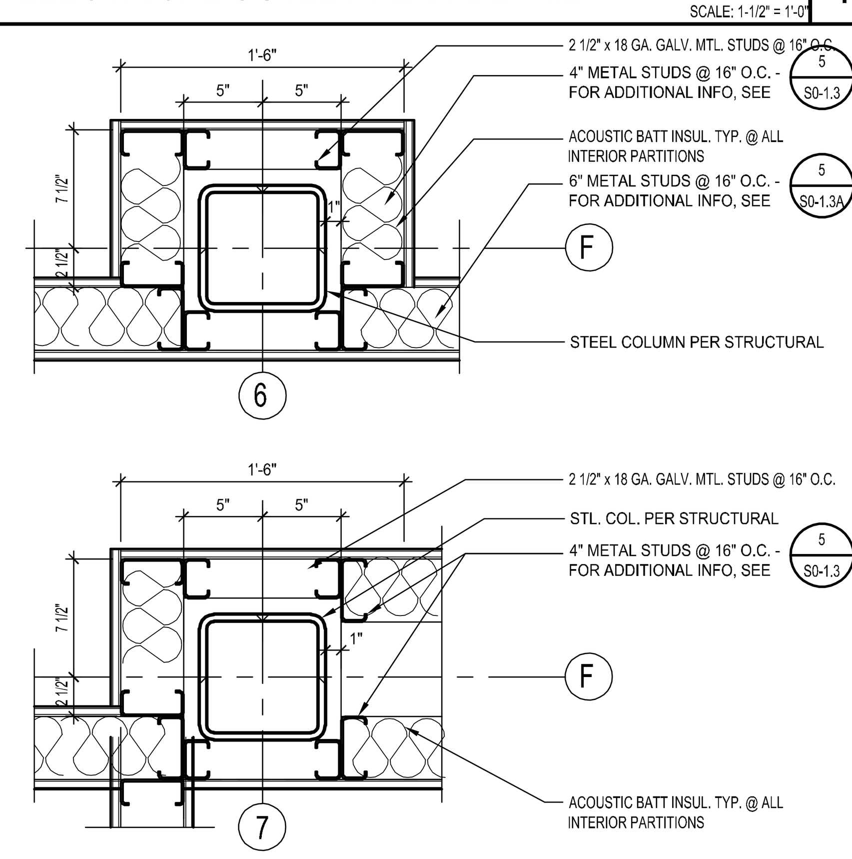
ELECTRICAL OUTLET PLAN DETAIL — SCALE: 1-1/2" = 1'-0" — 13



COLUMN DETAIL — SCALE: 1 1/2" = 1'-0" — 16



COLUMN DETAIL — SCALE: 1 1/2" = 1'-0" — 17



COLUMN DETAILS @ GRID LINE "F" — SCALE: 1 1/2" = 1'-0" — 18

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tBP project number : 20987.00
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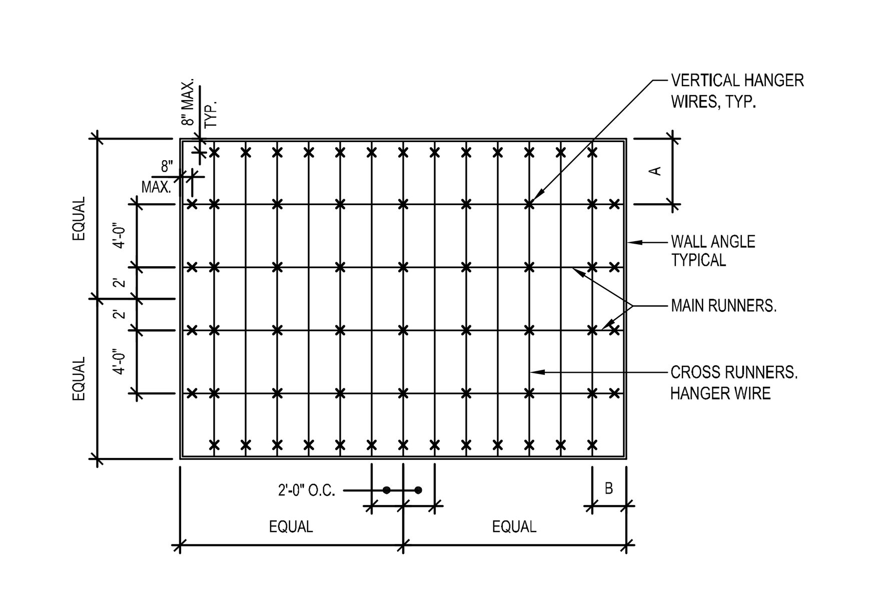
INTERIOR METAL STUD PARTITION DETAILS

drawing no.:
4.03

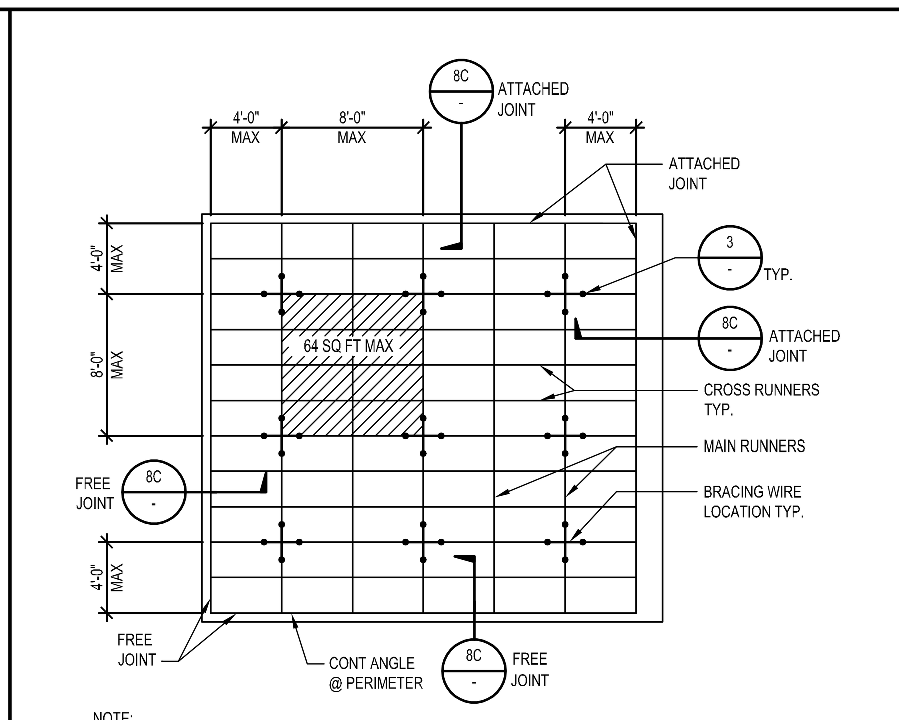


A = 47 1/2" OR LESS TO ACCOMMODATE STANDARD GRID & CEILING BOARD.

B = 24" OR LESS TO ACCOMMODATE STANDARD CEILING BOARD.

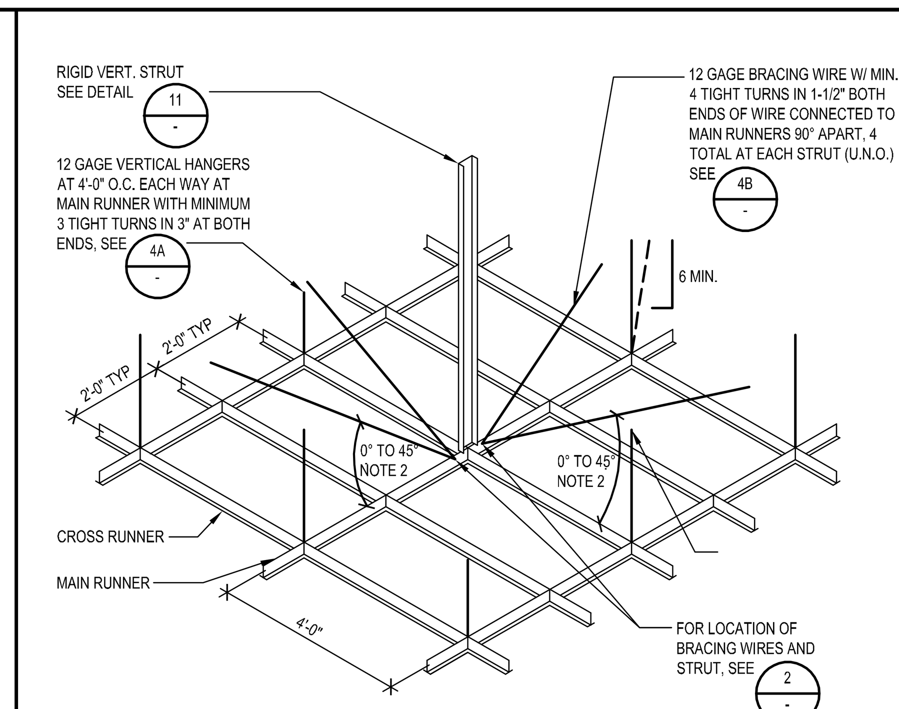
NOTES:
1. ALL COMPONENTS OF CEILING GRID TO BE CLASSIFIED 'HEAVY DUTY'
2. SEE DETAIL 2 3 4
3. FOR LIGHT FIXTURE AND MECHANICAL REGISTER SUPPORT SEE 16

TYPICAL HANGER SUPPORT PLAN 1
SCALE: N.T.S.



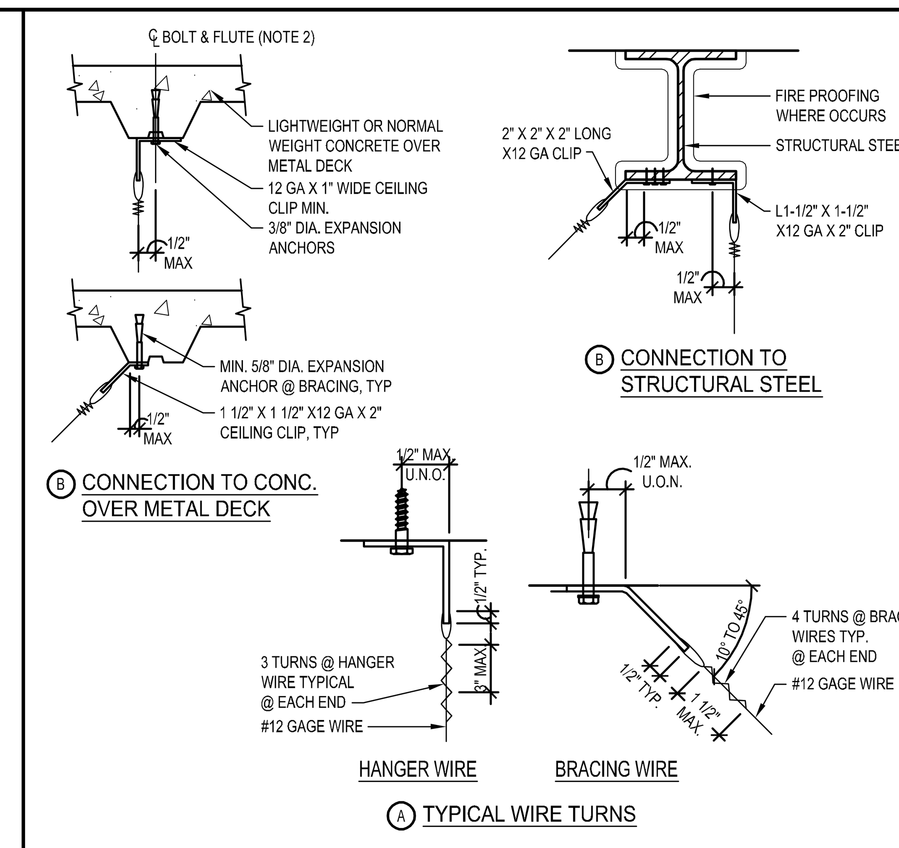
NOTE:
BRACING WIRES AND COMP. STRUT SHALL OCCUR AT EVERY 64 SQ. FT. MAX. IN ROOMS OVER 144 SQ. FT.

TYPICAL LATERAL BRACING PLAN 2
SCALE: N.T.S.



NOTES:
1. STRUTS SHALL NOT REPLACE HANGER WIRES
2. THE MINIMUM ACCEPTABLE ANGLE IS DETERMINED SHALL THAT THE WIRES DO NOT INTERFERE WITH THE RUNNERS, LIGHT FIXTURES, ETC. AND REMAIN STRAIGHT AND UNOBSTRUCTED.

SUSPENSION AND BRACING ASSEMBLY 3
SCALE: N.T.S.



TYP. HANGER AND BRACING WIRE CONNECTIONS 4
SCALE: N.T.S.

SUSPENDED ACOUSTICAL CEILING PANEL SYSTEM NOTES

T-BAR CEILING ASSEMBLY SHALL COMPLY WITH ALL REQUIREMENTS NOTED IN DSA IR 25-2.13

1. CEILING SYSTEM GENERAL NOTES:
1.01 CEILING SYSTEM COMPONENTS SHALL COMPLY WITH ASTM C635-07 AND SECTION 5.1 OF ASTM E580-10A.
1.02 THE CEILING GRID SYSTEM MUST BE RATED HEAVY DUTY AS DEFINED BY ASTM C635-08.
1.03 CEILING SYSTEMS. THE FOLLOWING CEILING SYSTEM(S) IS/ARE PART OF THE SCOPE OF THIS PROJECT:

MANUFACTURER'S NAME ARMSTRONG
PRODUCT EVALUATION REPORT TYPE AND NUMBER ASTM E580/E580M SECTION 5.1.2.
MANUFACTURER'S MODEL NUMBER - MAIN RUNNER PRELUDE XL 7301
MANUFACTURER'S CATALOG NUMBER - CROSS RUNNER XL7328- ICC-ESR-2631

1.04 SEISMIC WALL CLIP:
MANUFACTURER'S MODEL SJCG (ARMSTRONG)
1.05 CEILING PANELS SHALL NOT SUPPORT ANY LIGHT FIXTURES, AIR TERMINALS OR DEVICES.
1.06 FOR CEILING INSTALLATIONS UTILIZING ACOUSTICAL TILE PANELS OF MINERAL OR GLASS FIBER, IT IS NOT MANDATORY TO PROVIDE 3/4" CLEARANCE BETWEEN THE ACOUSTICAL TILE PANELS AND THE WALL ON THE SIDES OF THE CEILING WHICH ARE FREE TO SLIP. FOR ALL OTHER CEILING PANEL TYPES, PROVIDE 3/4" CLEARANCE BETWEEN THE CEILING PANEL AND THE WALL ON THE SIDES OF THE CEILING FREE TO SLIP.

2. MATERIALS:
2.01 CEILING WIRE SHALL BE CLASS 1 ZINC COATED (GALVANIZED) CARBON STEEL CONFORMING TO ASTM A641-09A. WIRE SHALL BE #12 GAGE (0.106" DIAMETER) WITH SOFT TEMPER AND MINIMUM TENSILE STRENGTH = 70 KSI.
2.02 GALVANIZED SHEET STEEL (INCLUDING THAT USED FOR METAL STUD AND TRACK COMPRESSION STRUTS/POST) SHALL CONFORM TO ASTM A653-11, OR OTHER EQUIVALENT SHEET STEEL LISTED IN SECTION A2.1 OF THE NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS 2016 (AISI S100-16). MATERIAL 43 MIL (18 GAGE) AND LIGHTER SHALL HAVE MINIMUM YIELD STRENGTH OF 33 KSI. MATERIAL 54 MIL (16 GAGE) AND HEAVIER SHALL HAVE A MINIMUM YIELD STRENGTH OF 50 KSI.
2.03 ELECTRICAL METALLIC TUBE (EMT) SHALL BE ANSI C80.3/UL 797 CARBON STEEL WITH G90 GALVANIZING. EMT SHALL HAVE MINIMUM YIELD STRENGTH (FY) OF 30 KSI AND MINIMUM ULTIMATE STRENGTH (FU) OF 48 KSI.

3. ATTACHMENT OF HANGER AND BRACING WIRES:
3.01 SEPARATE ALL CEILING HANGER AND BRACING WIRES AT LEAST SIX (6) INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUIT, ETC.
3.02 HANGER AND BRACING WIRES SHALL NOT ATTACH TO OR BEND AROUND OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO: PIPING, DUCTWORK, CONDUIT AND EQUIPMENT.
3.03 HANGER WIRES THAT ARE MORE THAN ONE (HORIZONTAL) IN SIX (VERTICAL) OUT OF PLUMB SHALL HAVE COUNTER-SLOPING WIRES.
3.04 SLACK SAFETY WIRES SHALL BE CONSIDERED HANGER WIRES FOR INSTALLATION AND TESTING REQUIREMENTS.
3.05 HANGER AND BRACING WIRE ANCHORAGE TO THE STRUCTURE SHALL BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE ANCHORAGE ALIGNS CLOSELY WITH THE DIRECTION OF THE WIRE. (E.G. BRACING WIRE CEILING CLIPS MUST BE BENT AS SHOWN IN THE DETAILS AND ROTATED AS REQUIRED TO ALIGN CLOSELY WITH THE DIRECTION OF THE WIRE, SCREW EYES IN WOOD MUST BE INSTALLED SO THEY ALIGN CLOSELY WITH THE DIRECTION OF THE WIRE, ETC.)

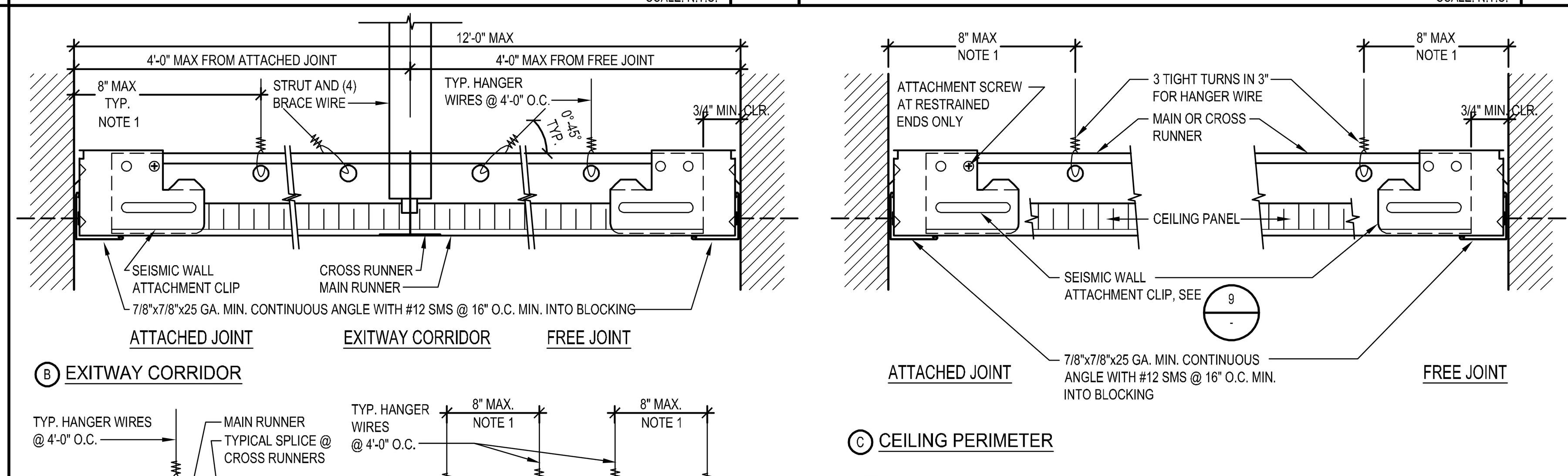
4. FASTENERS AND WELDING:
4.01 SHEET METAL SCREWS SHALL COMPLY WITH ASTM C1513-10, ASME B18.6.4-89 (R2005). PENETRATION OF SCREWS THROUGH JOINED MATERIAL SHALL NOT BE LESS THAN THREE EXPOSED THREADS.
4.02 EXPANSION ANCHORS SHALL BE: HILTI KB-TZ, ESR-1917
4.03 POWER-ACTUATED FASTENERS SHALL BE: HILTI X-C, ESR-1663
4.04 IF NOT OTHERWISE SPECIFIED IN THE EVALUATION REPORT, POWER-ACTUATED FASTENERS INSTALLED IN STEEL SHALL BE INSTALLED SO THE ENTIRE POINTED END OF THE FASTENER IS DRIVEN THROUGH THE STEEL MEMBER.
4.05 POWER-ACTUATED FASTENERS IN CONCRETE ARE NOT PERMITTED FOR BRACING WIRES.
4.06 CONCRETE REINFORCEMENT AND PRESTRESSING TENDONS SHALL BE LOCATED BY NON-DESTRUCTIVE MEANS PRIOR TO INSTALLING POST - INSTALLED ANCHOR.
4.07 WELDING SHALL BE IN ACCORDANCE WITH AWS D1.3 USING E60XX SERIES ELECTRODES.

5. TESTING: ALL FIELD TESTING MUST BE PERFORMED IN THE PRESENCE OF THE PROJECT INSPECTOR.
5.01 POST-INSTALLED ANCHORS IN CONCRETE USED TO SUPPORT HANGER WIRES SHALL BE TESTED AT A FREQUENCY OF 10 PERCENT. POWER ACTUATED FASTENERS IN CONCRETE SHALL BE FIELD TESTED FOR 200 LBS. IN TENSION. ALL OTHER POST-INSTALLED ANCHORS IN CONCRETE SHALL BE TESTED IN ACCORDANCE WITH CBC SECTION 1705A.3.
5.02 POST-INSTALLED ANCHORS IN CONCRETE USED TO ATTACH BRACING WIRES SHALL BE TESTED AT A FREQUENCY OF 50 PERCENT IN ACCORDANCE WITH CBC SECTION 1910A.5.

6. LIGHT FIXTURES:
6.01 ALL LIGHT FIXTURES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURE. A MINIMUM OF TWO SCREWS OR APPROVED FASTENERS ARE REQUIRED AT EACH LIGHT FIXTURE, PER ASTM E580, SECTION 5.3.1.
6.02 SURFACE-MOUNTED LIGHT FIXTURES SHALL BE ATTACHED TO THE MAIN RUNNER WITH AT LEAST TWO POSITIVE CLAMPING DEVICES. THE CLAMPING DEVICE SHALL COMPLETELY SURROUND THE SUPPORTING CEILING RUNNER AND BE MADE OF STEEL WITH A MINIMUM THICKNESS OF #14 GAGE. ROTATIONAL SPRING CATCHES DO NOT COMPLY. A #12 GAGE SLACK SAFETY WIRE SHALL BE CONNECTED FROM EACH CLAMPING DEVICE TO THE STRUCTURE ABOVE. PROVIDE ADDITIONAL SUPPORTS WHEN LIGHT FIXTURES ARE EIGHT (8) FEET OR LONGER OR EXCEED 56 LB. MAXIMUM SPACING BETWEEN SUPPORTS SHALL NOT EXCEED EIGHT (8) FEET.
6.03 LIGHT FIXTURES WEIGHING LESS THAN OR EQUAL TO 10 LB. SHALL HAVE A MINIMUM OF ONE (1) #12 GAGE SLACK SAFETY WIRE CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE.
6.04 LIGHT FIXTURES WEIGHING LESS THAN OR EQUAL TO 10 LB. SHALL HAVE A MINIMUM OF ONE (1) #12 GAGE SLACK SAFETY WIRE CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE.
6.05 LIGHT FIXTURES WEIGHING GREATER THAN 10 LB. BUT LESS THAN OR EQUAL TO 56 LBS. MAY BE SUPPORTED DIRECTLY ON THE CEILING RUNNERS, BUT THEY SHALL HAVE A MINIMUM OF TWO (2) #12 GAGE SLACK SAFETY WIRES CONNECTED FROM THE FIXTURE HOUSING AT DIAGONAL CORNERS TO THE STRUCTURE ABOVE. EXCEPTION: ALL LIGHT FIXTURES GREATER THAN TWO BY FOUR FEET WEIGHING LESS THAN 56 LBS. SHALL HAVE A #12 GAGE SLACK SAFETY WIRE AT EACH CORNER.
6.06 ALL LIGHT FIXTURES WEIGHING GREATER THAN 56 LB. SHALL BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR (4) TAUT #12 GAGE HANGER WIRES (ONE AT EACH CORNER) ATTACHED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE OR OTHER APPROVED HANGERS. THE FOUR (4) TAUT #12 GAGE WIRES OR OTHER APPROVED HANGERS, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, SHALL BE CAPABLE OF SUPPORTING FOUR (4) TIMES THE WEIGHT OF THE FIXTURE.

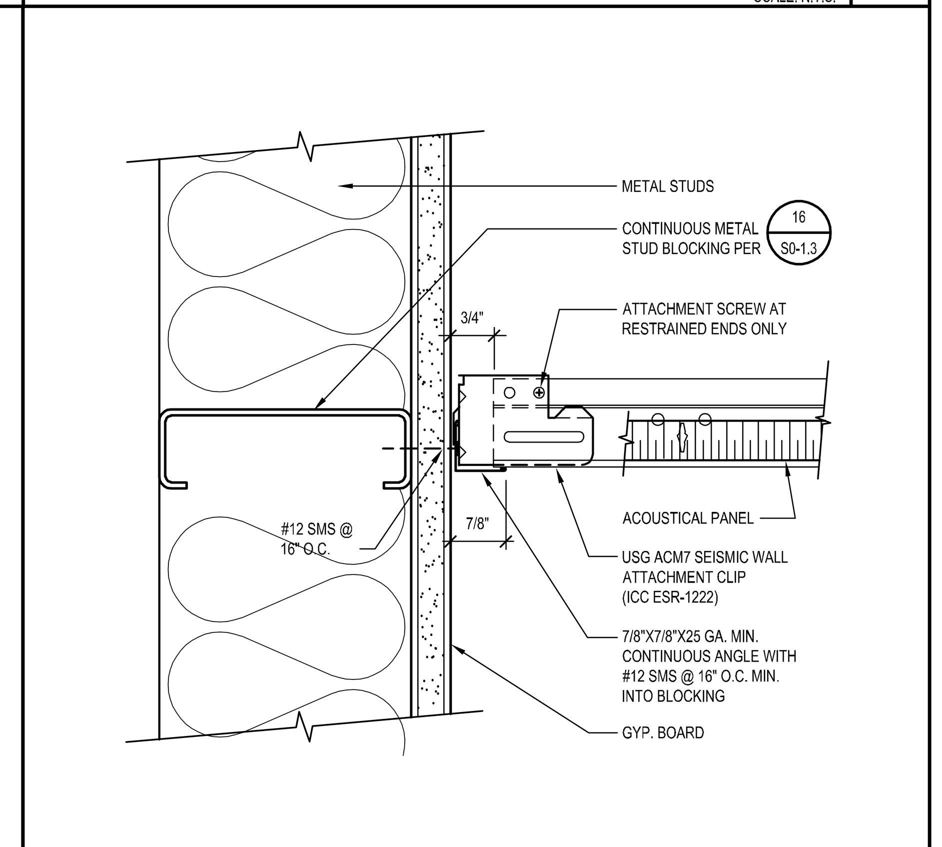
7. SERVICES WITHIN THE CEILING:
7.01 ALL FLEXIBLE SPRINKLER HOSE FITTING MOUNTING BRACKETS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS. SCREWS OR APPROVED FASTENERS ARE REQUIRED. A MINIMUM OF TWO ATTACHMENTS ARE REQUIRED AT EACH COMPONENT.
7.02 CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING LESS THAN OR EQUAL TO 20 LB. SHALL HAVE ONE (1) #12 GAGE SLACK SAFETY WIRE ATTACHED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE.
7.03 FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING MORE THAN 20 LB. BUT LESS THAN OR EQUAL TO 56 LB. SHALL HAVE TWO (2) #12 GAGE SLACK SAFETY WIRES (AT DIAGONAL CORNERS) CONNECTED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE.
7.04 FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING MORE THAN 56 LB. SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE BY NOT LESS THAN FOUR (4) TAUT #12 GAGE HANGER WIRES ATTACHED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE OR OTHER APPROVED HANGERS.

8. OTHER DEVICES WITHIN THE CEILING:
8.01 ALL LIGHTWEIGHT MISCELLANEOUS DEVICES, SUCH AS STROBE LIGHTS, OCCUPANCY SENSORS, SPEAKERS, EXIT SIGNS, ETC., SHALL BE ATTACHED TO THE CEILING GRID. IN ADDITION, DEVICES WEIGHING MORE THAN 10 LBS. SHALL HAVE A #12 GAGE SLACK SAFETY WIRE ANCHORED TO THE STRUCTURE ABOVE. DEVICES WEIGHING MORE THAN 20 LB. SHALL BE SUPPORTED INDEPENDENTLY FROM THE STRUCTURE ABOVE.

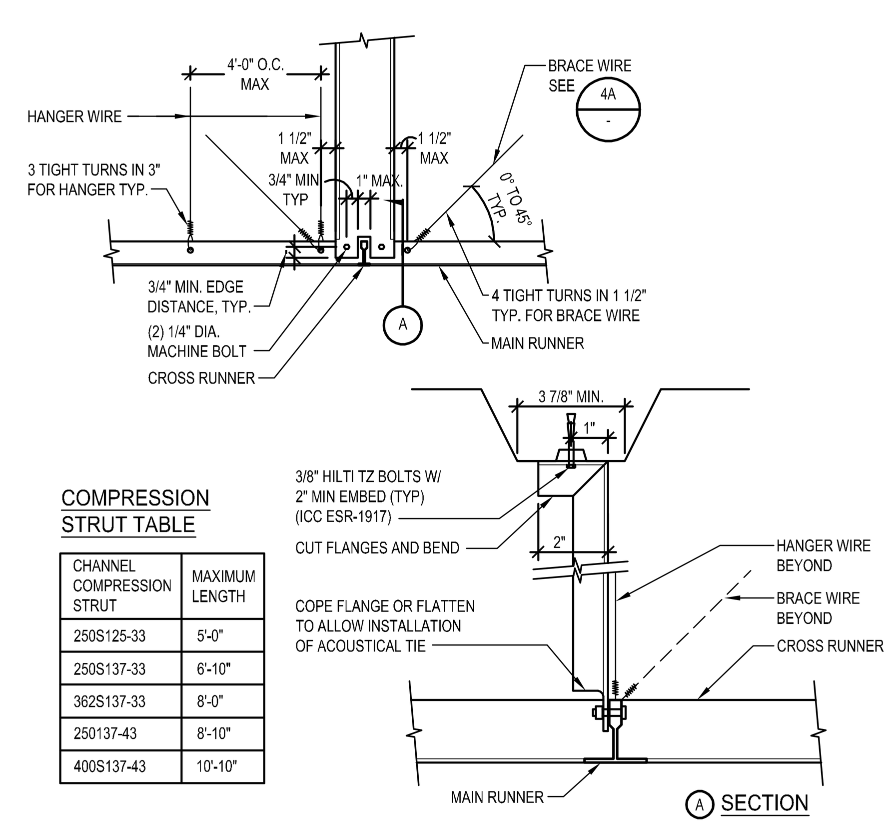


NOTES:
1. PROVIDE #12 GAGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN 8" OF THE SUPPORT OR WITHIN 1/4 OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS, FOR THE PERIMETER OF THE CEILING AREA. PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS 6" OR LESS.

CEILING PERIMETER JOINTS 8
SCALE: N.T.S.



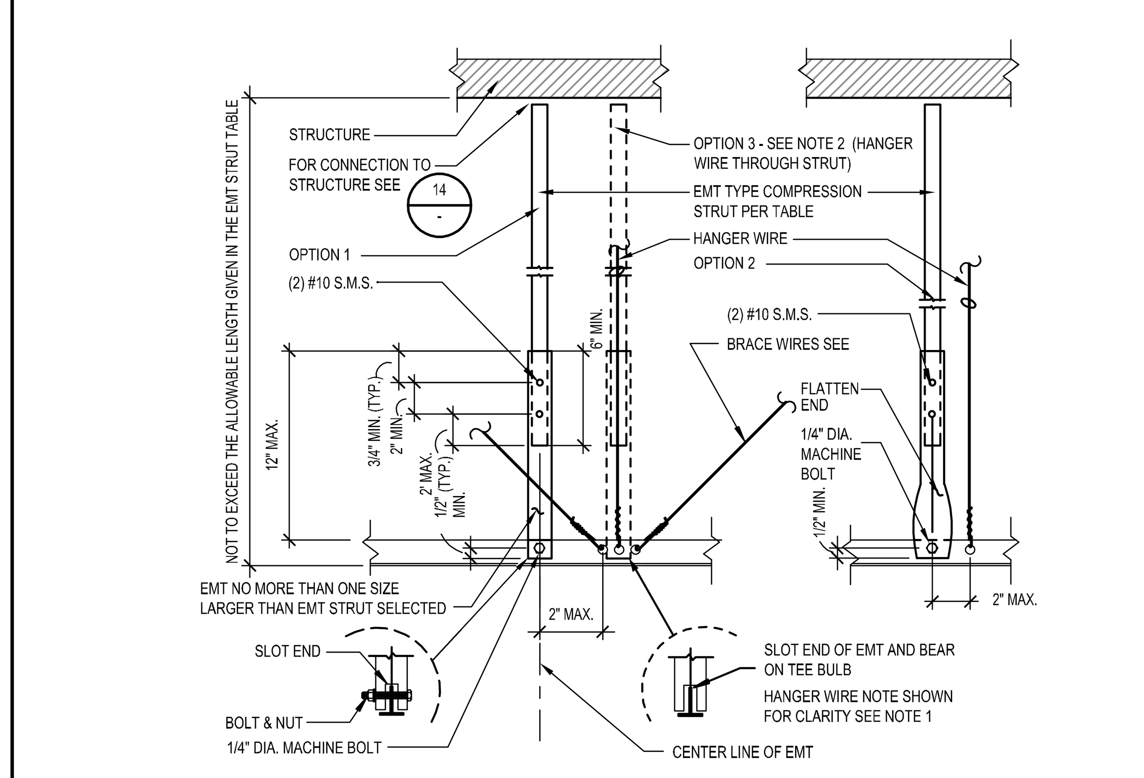
TYPICAL CEILING EDGE W/ ACM7 SEISMIC CLIP 9
SCALE: HALF



COMPRESSION STRUT TABLE

CHANNEL COMPRESSION STRUT	MAXIMUM LENGTH
250S125-33	5'-0"
250S137-33	6'-10"
362S137-33	8'-0"
250137-43	8'-10"
400S137-43	10'-10"

COMPRESSION STRUT 11
SCALE: N.T.S.

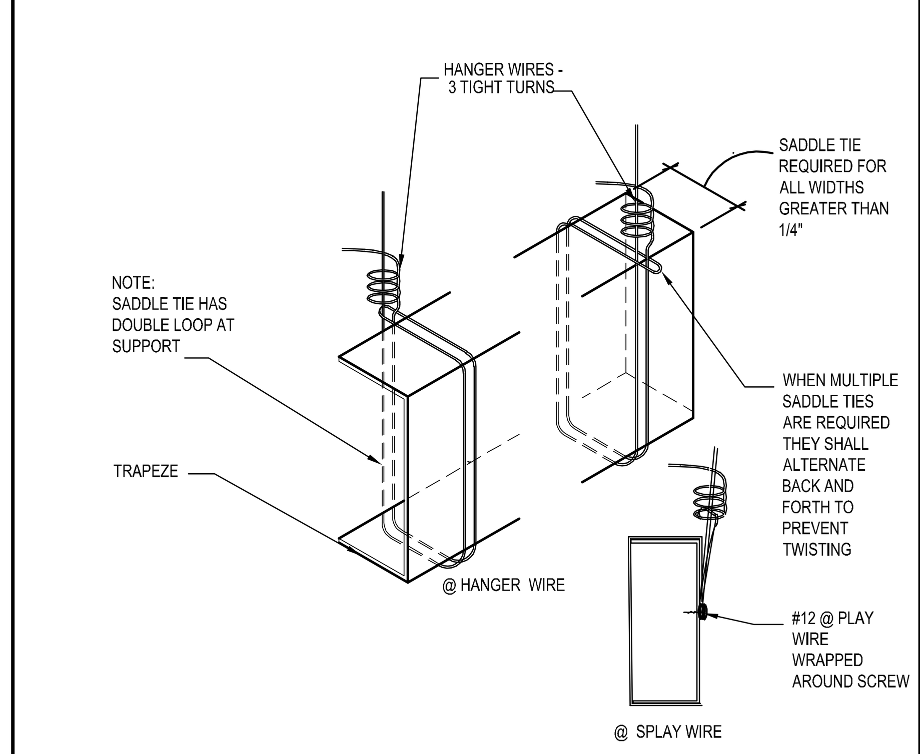


CHANNEL COMPRESSION STRUT TABLE

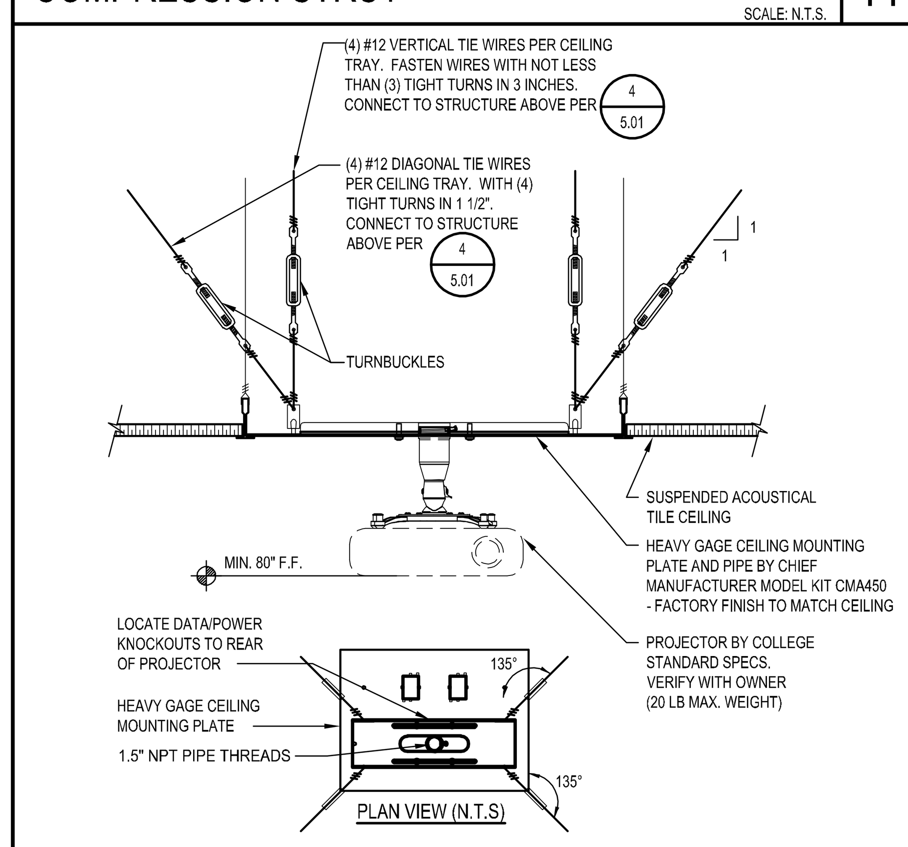
EMT COMPRESSION STRUT	MAXIMUM LENGTH
1/2" DIAMETER EMT (0.042" WALL THICKNESS)	3'-11"
3/4" DIAMETER EMT (0.049" WALL THICKNESS)	9'-9"
1" DIAMETER EMT (0.057" WALL THICKNESS)	6'-4"
1 1/4" DIAMETER EMT (0.065" WALL THICKNESS)	12'-9"
1 1/2" DIAMETER EMT (0.065" WALL THICKNESS)	14'-9"
2" DIAMETER EMT (0.065" WALL THICKNESS)	18'-10"

NOTES:
1. MACHINE BOLT IS NOT REQUIRED ON OPTION 3
2. APPLICABLE TO SAWN TIMBER WITHOUT GYPSUM BOARD ONLY.
3. FOR OPTION 2, SEE OPTION 1 FOR INFORMATION NOT SHOWN.

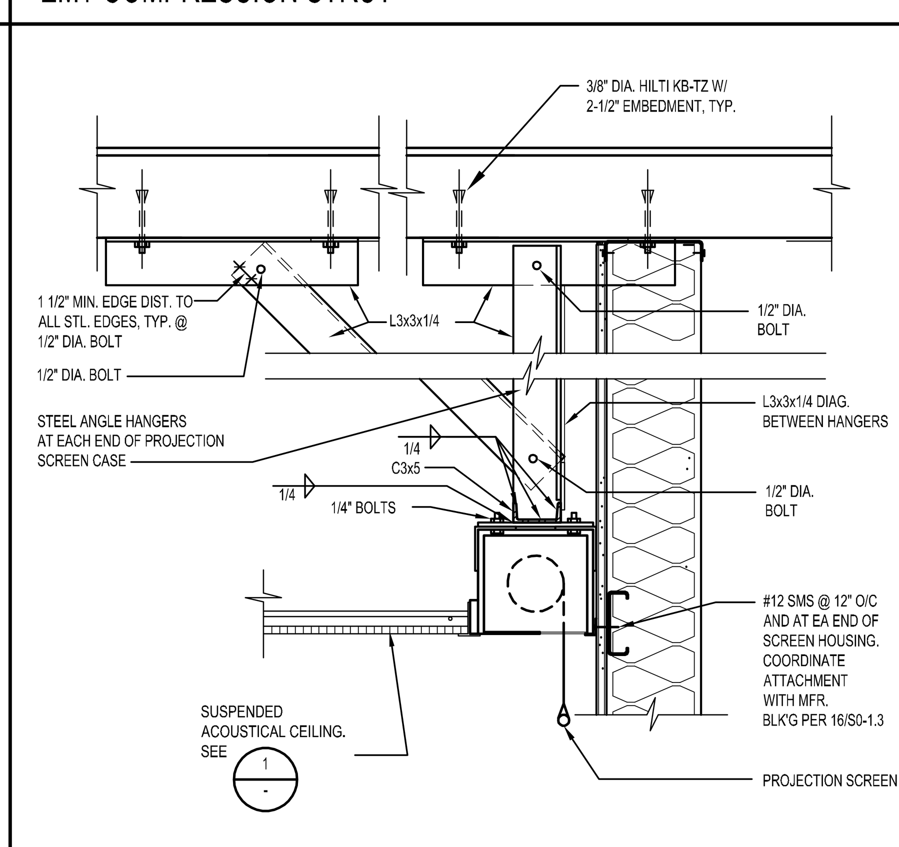
EMT COMPRESSION STRUT 13
SCALE: 1-1/2" = 1'-0"



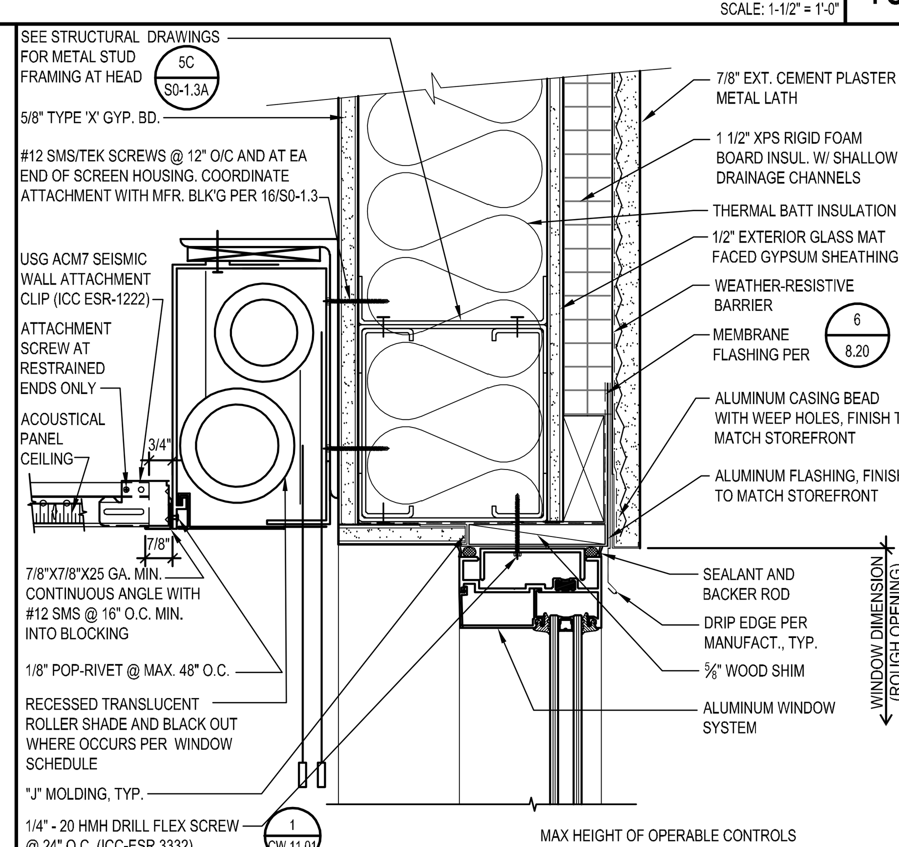
TYPICAL SADDLE TIE 14
SCALE: N.T.S.



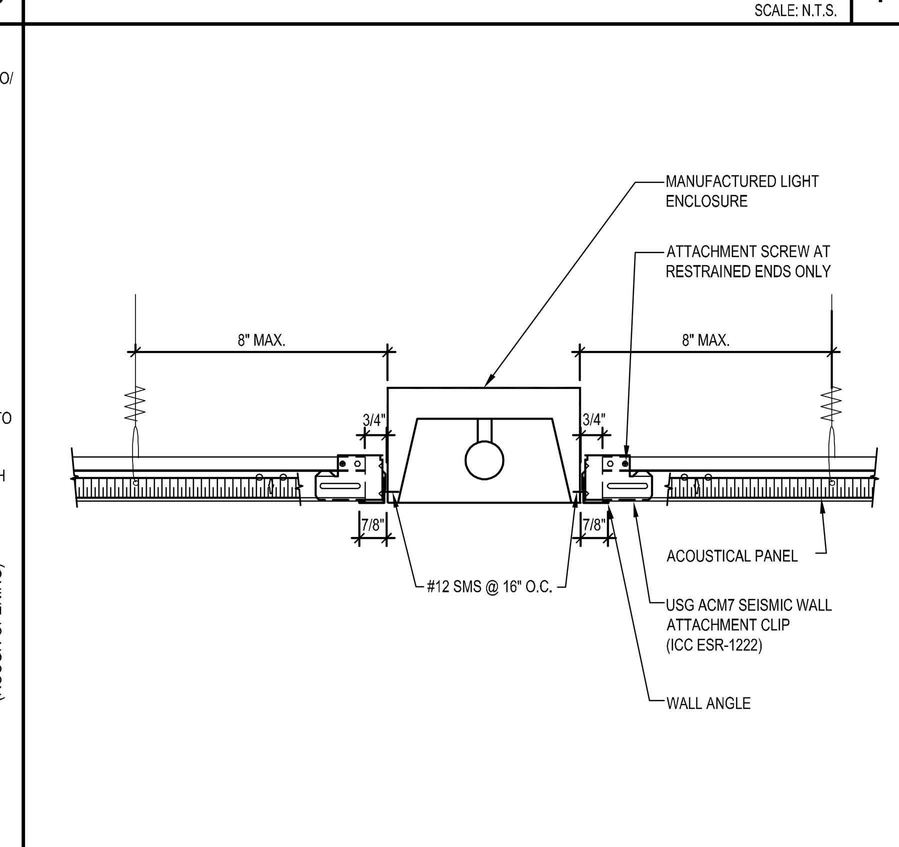
PROJECTOR MOUNT CEILING TRAY 16
SCALE: 1-1/2" = 1'-0"



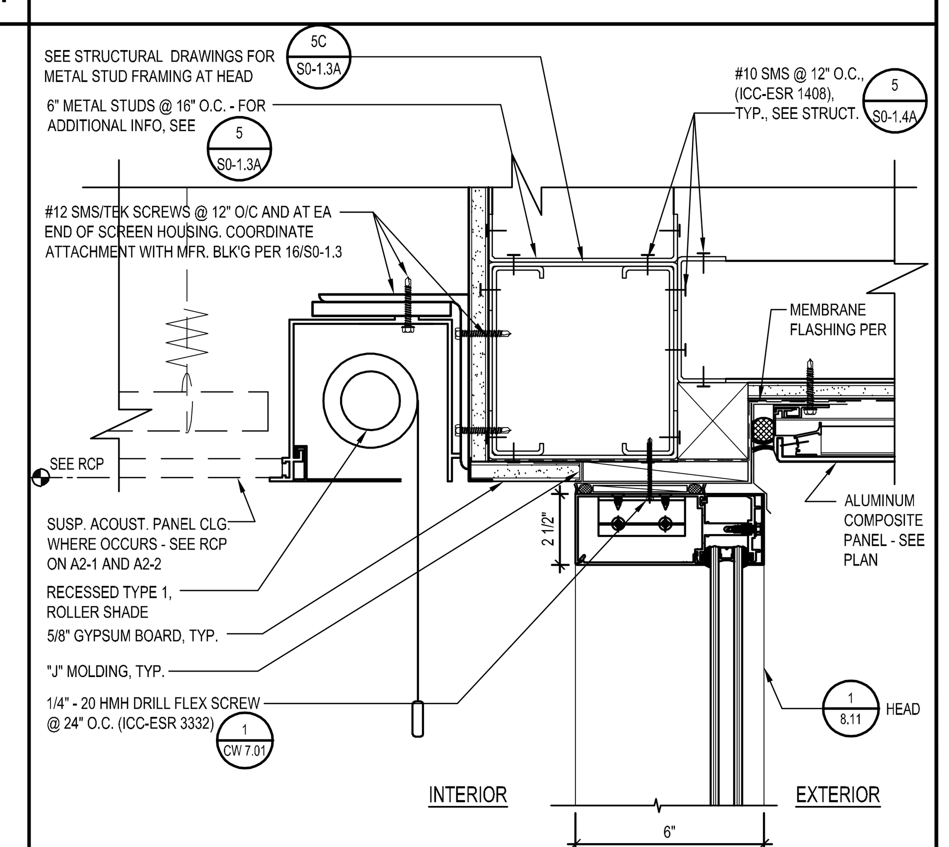
RECESSED PROJECTION SCREEN 17
SCALE: 1-1/2" = 1'-0"



SUSPENDED CEILING EDGE @ ROLLER SHADE 18
SCALE: 3" = 1'-0"



SUSPENDED CEILING EDGE @ CONT. LIGHT FIX. 19
SCALE: 3" = 1'-0"



ROLLER SHADE @ ALUM. CURTAIN WALL 20
SCALE: 3" = 1'-0"

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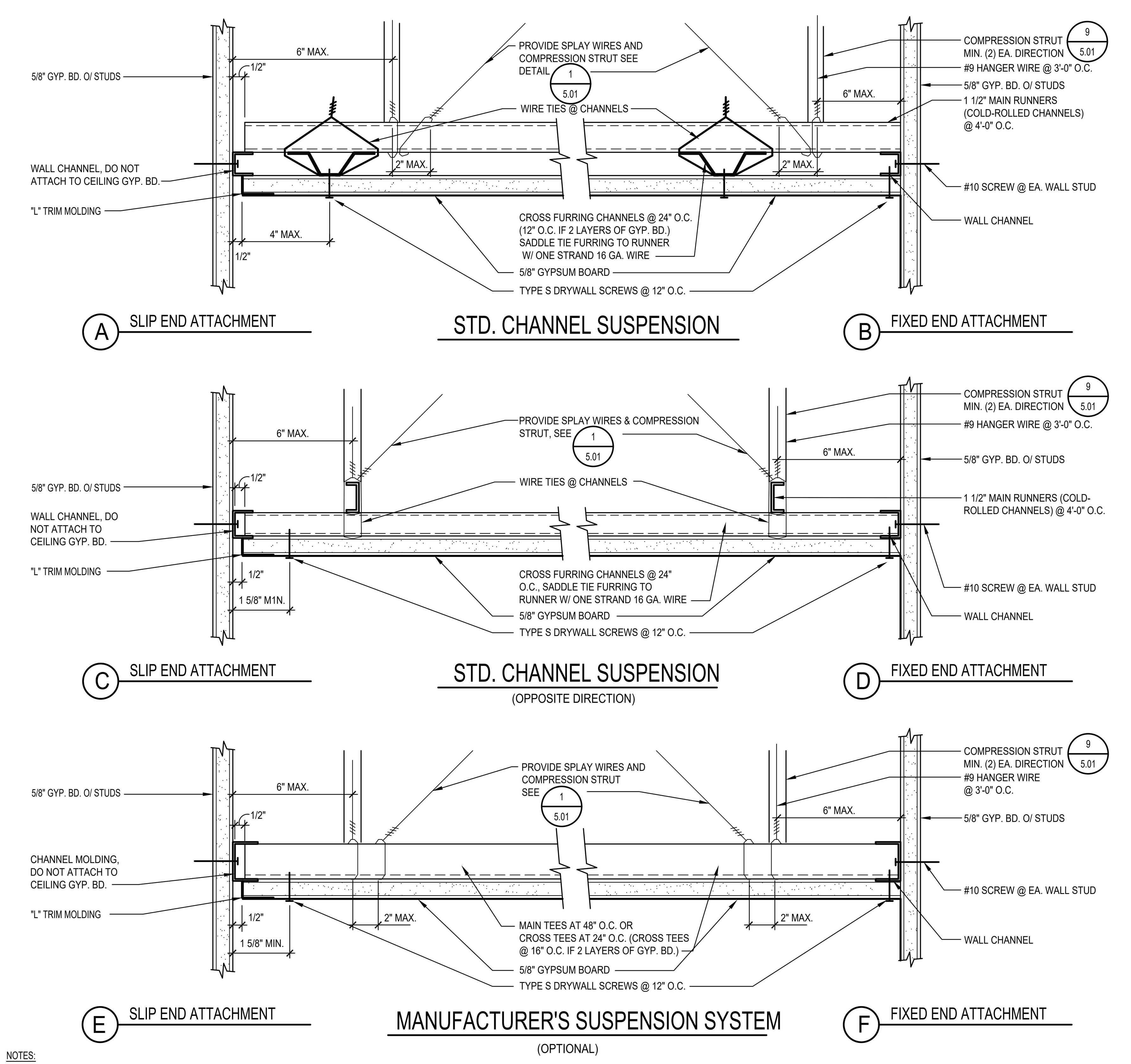
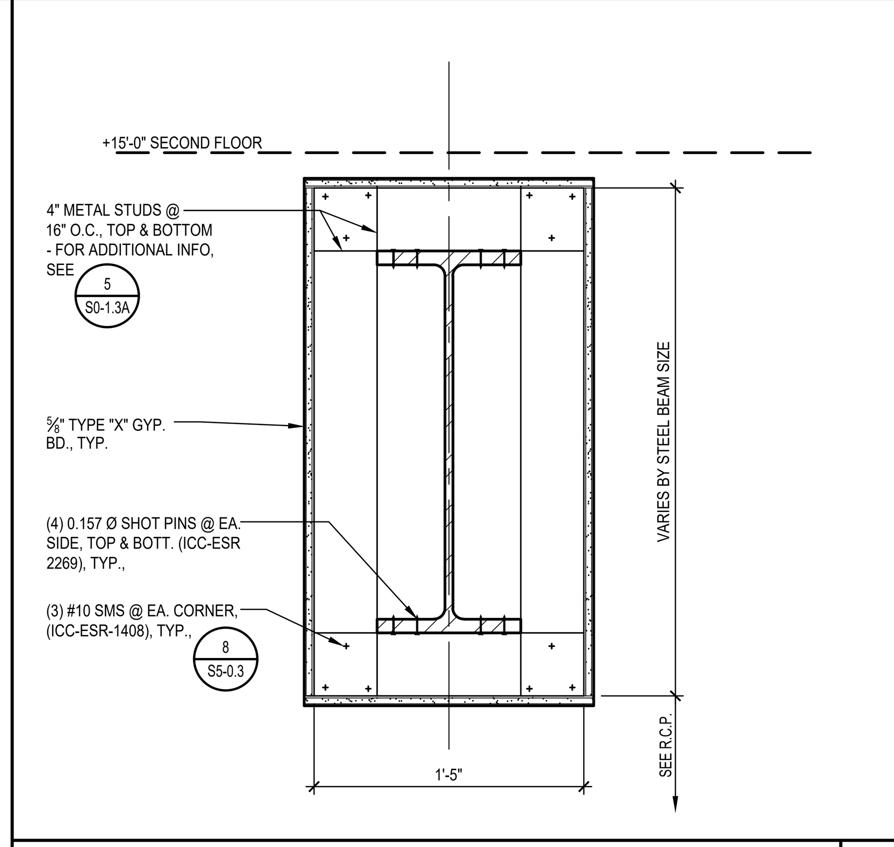
5.01

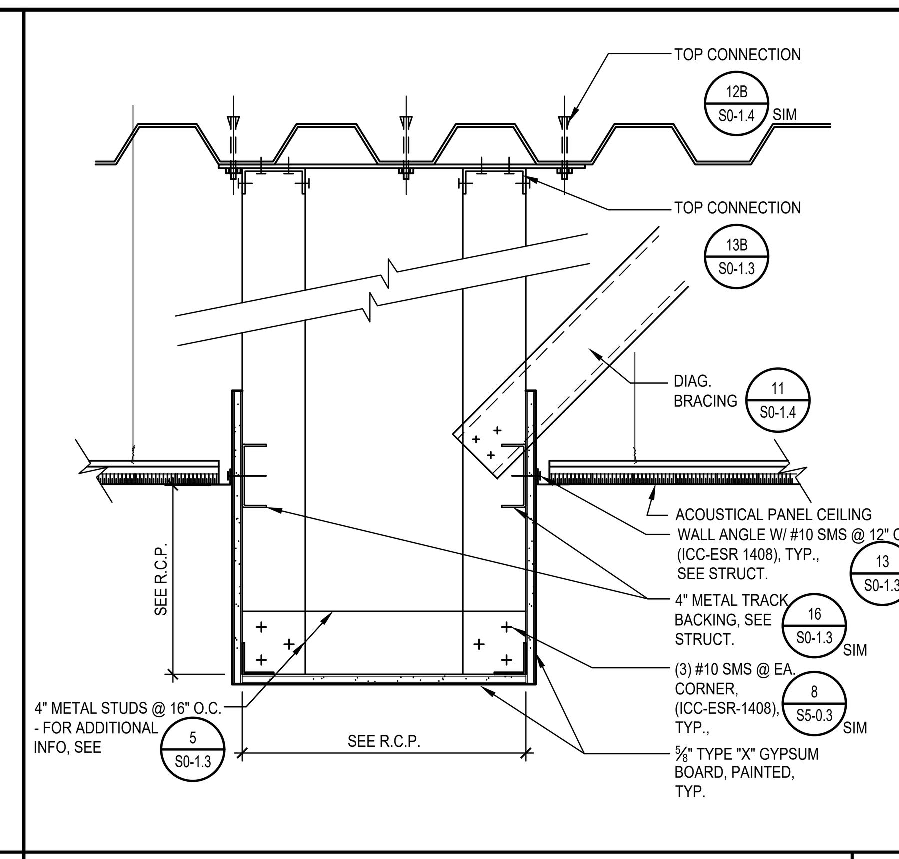


NOTES:
SEE GENERAL NOTES FOR ADDITIONAL INFORMATION
PROVIDE FIXED END ATTACHMENT (DETAILS B, D, & F) @ NOT MORE THAN TWO ADJACENT WALLS PER ROOM, W/ SLIP END ATTACHMENT (DETAILS A, C, & E) AT ALL OPPOSITE WALLS. SEE GENERAL NOTE 5.1 (4).

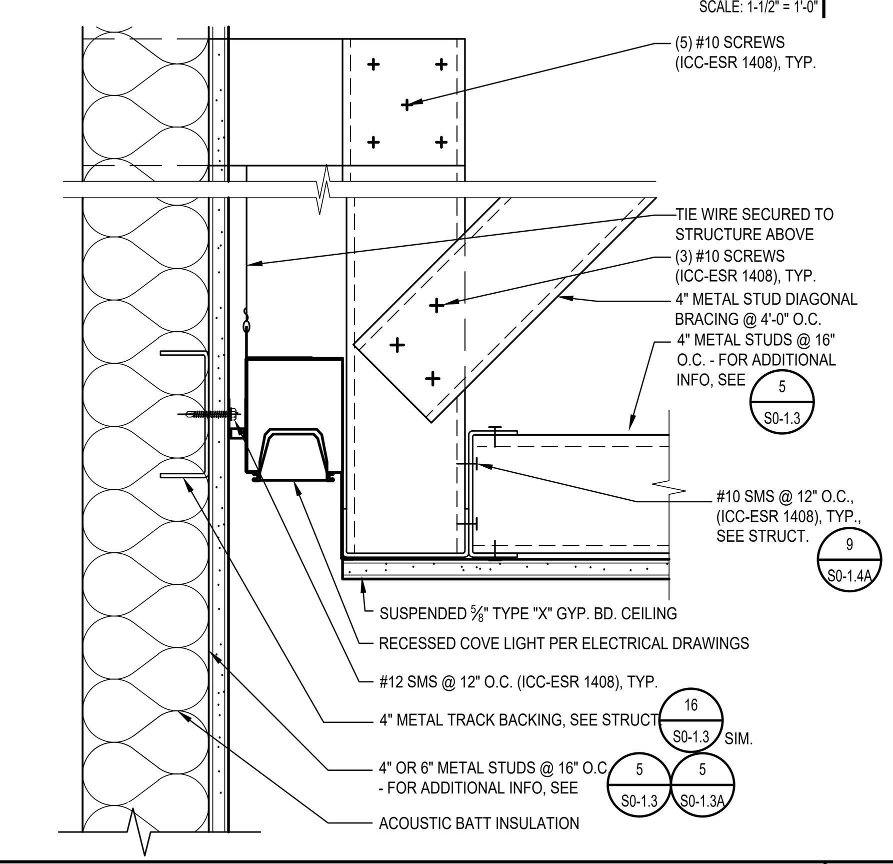
SUSPENDED GYPSUM BOARD CEILING DETAILS 7
SCALE: N.T.S.



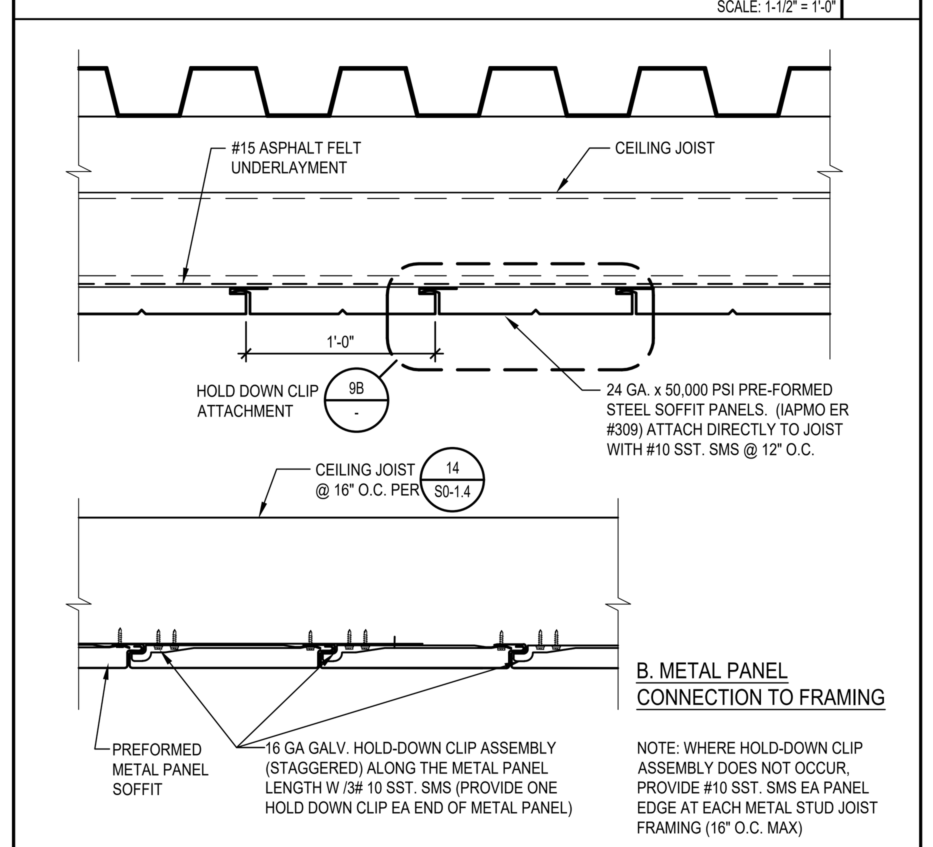
GYP. WRAPPED BEAM 3
SCALE: 1-1/2" = 1'-0"



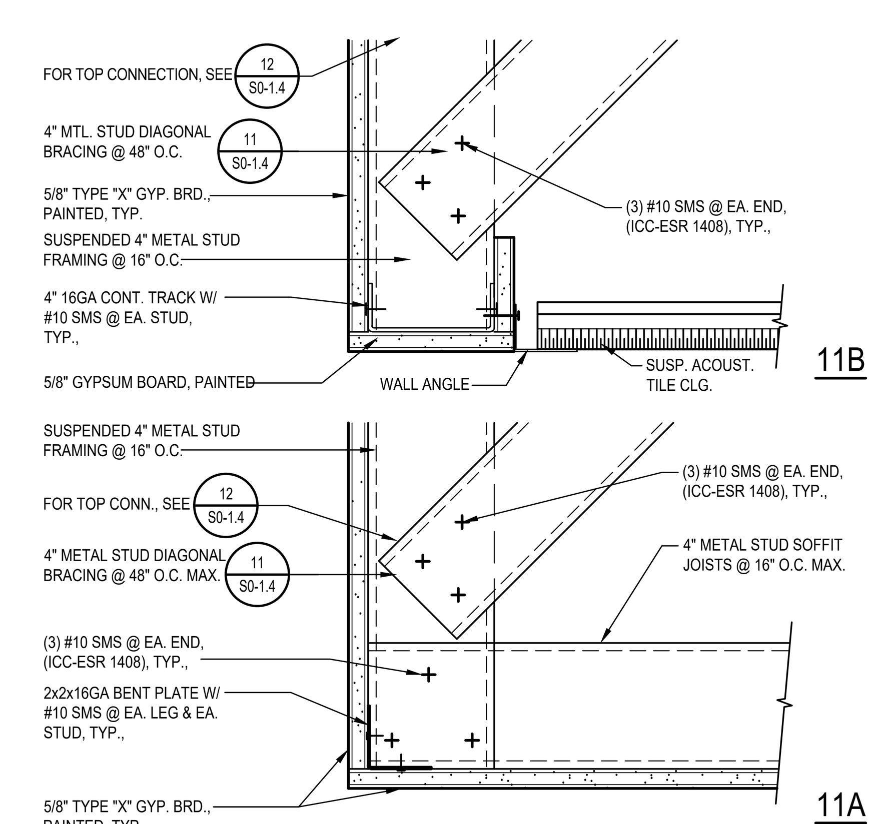
GYPSUM BOARD SOFFIT 4
SCALE: 1-1/2" = 1'-0"



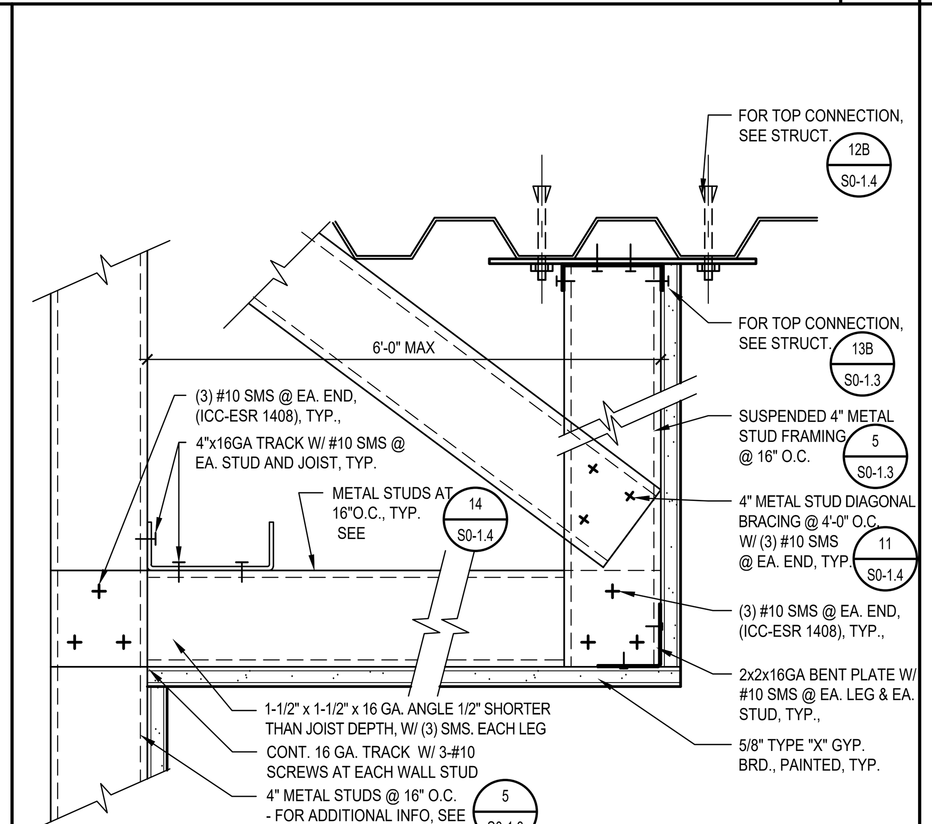
RECESSED COVE LIGHTING 8
SCALE: 3" = 1'-0"



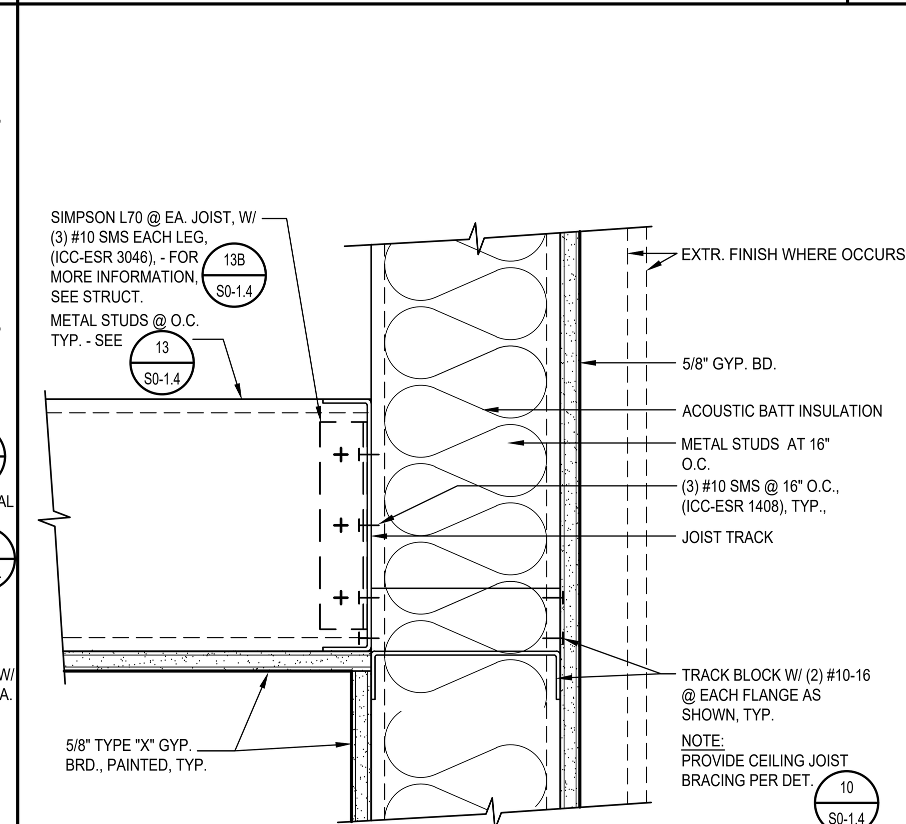
PREFORMED METAL SOFFIT PANELS 9
SCALE: 1-1/2" = 1'-0"



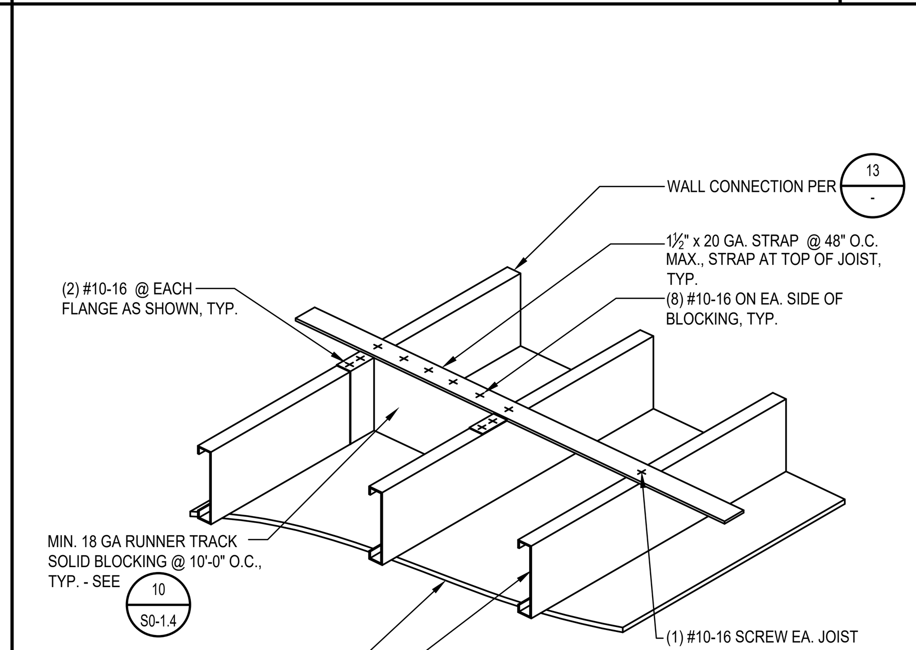
EDGE OF CEILING 11
SCALE: 3" = 1'-0"



TYPICAL SOFFIT FRAMING 12
SCALE: N.T.S.



FRAMED GYP. BD. CEILING CONNECTION AT WALL 13
SCALE: 3" = 1'-0"



NOTE:
1. GYPSUM BOARD SCREW SPACING 8" O.C. FROM EDGE AND 12" O.C. FIELD SPACING

CEILING JOIST SCHEDULE

MAX. SPAN	METAL STUD SIZE	SSMA PRODUCT ID
8'-6"	3 5/8" x 20GA. AT 16" O.C.	362S162-33
9'-6"	4" x 18GA. AT 16" O.C.	400S162-43
11'-0"	6" x 18GA. AT 16" O.C.	600S162-43
12'-0"	8" x 18GA. AT 16" O.C.	800S162-43

CEILING JOIST BRACING 14
SCALE: N.T.S.

GENERAL NOTES

SYSPENDED GYPSUM BOARD CEILING NOTES:

1. MATERIALS.
MATERIALS ARE TO COMPLY WITH APPLICABLE UBC STANDARDS. GYPSUM BOARD IS EITHER 1/2" OR 5/8" IN THICKNESS

2. DESIGN.
FOR LATERAL LOAD REFER TO CBC SECTION 1632A. THE WEIGHT OF THE SUSPENDED CEILING SHALL NOT BE LESS THAN FOUR (4) POUNDS PER SQUARE FOOT FOR DESIGN PURPOSES.

3. DETAILS OF CONSTRUCTION.

3.1 GENERAL.
GYP BOARD CEILINGS SHOULD NOT SUPPORT BUILDING COMPONENTS OTHER THAN AIR CONDITIONING/HEATING GRILLS OR LIGHT FIXTURES. ALL SUCH COMPONENTS SHALL BE SUPPORTED EITHER DIRECTLY FROM MAIN RUNNERS, OR BY SUPPLEMENTAL FRAMING WHICH IS SUPPORTED BY MAIN RUNNERS. NO VERTICAL LOADS OTHER THAN GYP BOARD DEAD LOAD SHALL BE APPLIED TO CROSS FURRING.

3.2 VERTICAL SUPPORT SYSTEM.

3.2.1 MAIN RUNNER AND CROSS RUNNER REQUIREMENTS:

1. VERTICAL HANGER WIRES ARE #9 GAGE AND GALVANIZED SOFT-ANNEALED STEEL.
2. CROSS-FURRING SHALL BE 7/8" , 25 GAGE GALVANIZED HAT SECTIONS AT 24" O.C. MAXIMUM.
3. MAIN RUNNERS SHALL BE SPACED AT 4'-0" O.C., HANGER WIRES SHALL BE SPACED AT 3'-0" O.C. MAXIMUM. MAIN RUNNERS SHALL BE 1-1/2" COLD ROLLED CHANNELS, 0.475 LBS/FT.

3.2.2 THE FOLLOWING REQUIREMENTS APPLY TO ALL WIRE HANGER/RUNNER COMBINATIONS:

1. HANGERS SHOULD BE SADDLE-TIED AROUND MAIN RUNNERS TO DEVELOP THE FULL STRENGTH OF THE HANGERS.
2. CROSS-FURRING SHOULD BE SADDLE-TIED TO THE MAIN RUNNERS WITH ONE STRAND OF #16 GAGE, OR TWO STRANDS OF #18 GAGE TIE WIRE.
3. MAIN RUNNERS SHOULD BE SPLICED BY LAPPING AND INTERLOCKING FLANGES 12" MINIMUM AND TYING NEAR EACH END WITH DOUBLE LOOPS OF #16 GAGE WIRE.
4. CROSS-FURRING SHOULD BE SPLICED BY LAPPING AND INTERLOCKING THE PIECES EIGHT INCH (8") MINIMUM AND TYING NEAR EACH END WITH DOUBLE LOOPS OF #16 GAGE WIRE.

3.2.3 FASTEN HANGER WIRES WITH NOT LESS THAN THREE (3) TIGHT TURNS. FASTEN BRACING WIRES WITH FOUR (4) TIGHT TURNS. MAKE ALL TIGHT TURNS WITHIN A DISTANCE OF 1-1/2 INCHES. HANGER OR BRACING WIRE ANCHORS TO THE STRUCTURE SHOULD BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE ANCHOR ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE WIRE.

NOTE: WIRE TURNS MADE BY MACHINE WHERE BOTH STRANDS HAVE BEEN DEFORMED OR BENT IN WRAPPING CAN WAIVE THE 1-1/2" REQUIREMENT, BUT THE NUMBER OF TURNS SHOULD BE MAINTAINED, AND BE AS TIGHT AS POSSIBLE.

SEPARATE ALL CEILING HANGING AND BRACING WIRES AT LEAST SIX INCHES (6") FROM ALL UNBRACED DUCTS, PIPES, CONDUIT, ETC.

WHEN DRILLED-IN CONCRETE ANCHORS OR SHOT-IN ANCHORS ARE USED IN REINFORCED CONCRETE FOR HANGER WIRES, 1 OUT OF 10 MUST BE FIELD TESTED FOR 200 LBS. IN TENSION. WHEN DRILLED-IN CONCRETE ANCHORS ARE USED FOR BRACING WIRES, 1 OUT OF 2 MUST BE FIELD TESTED FOR 440 LBS. IN TENSION. SHOT-IN ANCHORS IN CONCRETE ARE NOT PERMITTED FOR BRACING WIRES. IF ANY SHOT-IN OR DRILLED-IN ANCHOR FAILS, SEE SECTION 1923A.3.5, TITLE 24.

NOTE: DRILLED-IN OR SHOT-IN ANCHORS REQUIRE SPECIAL DSA APPROVAL WHEN USED IN PRESTRESSED CONCRETE.

PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO TYPICAL HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS OR DISCONTINUOUS AREAS. HANGER WIRES THAT ARE MORE THAN 1 IN 6 OUT OF PLUMB ARE TO HAVE COUNTER SLOPING WIRES.

4. SUPPORT AND ANCHORAGE OF LIGHT FIXTURES AND MECHANICAL SERVICES.

4.1 ALL RECESSED OR DROP-IN LIGHT FIXTURES, AS WELL AS CEILING MOUNTED MECHANICAL AIR TERMINALS AND SERVICES, SHALL BE SUPPORTED DIRECTLY BY MAIN RUNNERS OR BY SUPPLEMENTAL FRAMING WHICH IS SUPPORTED BY MAIN RUNNERS AND POSITIVELY ATTACHED WITH SCREWS OR OTHER APPROVED CONNECTORS..

4.2 SURFACE MOUNTED FIXTURES SHALL BE ATTACHED TO A MAIN RUNNER WITH A POSITIVE CLAMPING DEVICE MADE OF MATERIAL WITH A MINIMUM OF 14 GAGE. ROTATIONAL SPRING CLAMPS DO NOT COMPLY.

5. LATERAL SYSTEM.

5.1 WIRE BRACE SYSTEM.
PROVIDE BRACING ASSEMBLIES PER DETAIL 1/5.01, AS DETERMINED BY CALCULATIONS, WITH THE FOLLOWING LIMITATIONS:

1. FOR SCHOOL BUILDINGS, PLACE BRACING ASSEMBLIES AT A SPACING NOT MORE THAN 12' BY 12' ON CENTER.
2. FOR ESSENTIAL SERVICES BUILDINGS, PLACE BRACING ASSEMBLIES NOT MORE THAN 8' BY 12' ON CENTER.
3. PROVIDE BRACING ASSEMBLIES AT NOT MORE THAN SIX (6) FEET FROM EACH PERIMETER WALL AND AT THE EDGE OF VERTICAL CEILING OFFSETS. THE SLOPE OF THESE WIRES SHALL NOT EXCEED 45 DEGREES FROM THE PLANE OF THE CEILING AND SHALL BE TAUT. SPLICES IN BRACING WIRES ARE NOT PERMITTED WITHOUT SPECIAL DSA APPROVAL.
4. CEILING GRID MEMBERS MAY BE ATTACHED TO NOT MORE THAN TWO (2) ADJACENT WALLS. CEILING GRID MEMBERS SHALL BE AT LEAST 1/2" FREE OF ALL OTHER WALLS. IF WALLS RUN DIAGONALLY TO CEILING GRID SYSTEM RUNNERS, ONE END OF MAIN AND CROSS RUNNERS SHOULD BE FREE, AND A MINIMUM OF 1/2" CLEAR OF WALL.
5. SUSPENDED CEILING SYSTEMS WITH AN AREA OF 144 SQUARE FEET OR LESS, AND FIRE RATED CEILING SYSTEMS WITH AN AREA OF 96 SQUARE FEET OR LESS, SURROUNDED BY WALLS WHICH CONNECT DIRECTLY TO THE STRUCTURE ABOVE, DO NOT REQUIRE BRACING ASSEMBLIES WHEN ATTACHED TO AT LEAST TWO ADJACENT WALLS.

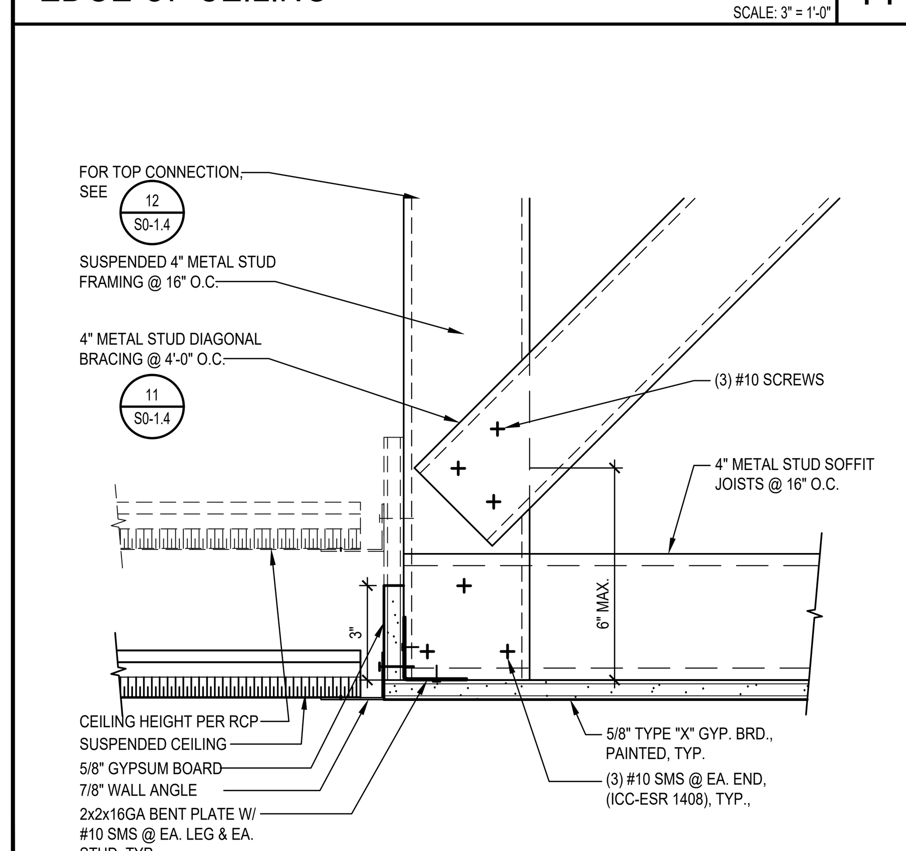
5.2 ALTERNATE SYSTEM:
DESIGN AS A DIAPHRAGM, SIMILAR TO PLYWOOD DIAPHRAGM CONCEPT, SUBJECT TO ACCEPTANCE BY THE DSA REGIONAL OFFICE.

5.2.1 DIAPHRAGM RATIOS:
HORIZONTAL 2:1 MAXIMUM
VERTICAL 1:1 MAXIMUM

5.2.2 A MAXIMUM DIAPHRAGM SHEAR EQUAL TO 50 LBS./FT. IS ALLOWED WITH 1" OR 1-1/4" HI-LO TYPE S OR S-12 BUGLE HEAD SCREWS AT 12" O.C. ALL GYPSUM BOARD EDGES (3/8 INCH SCREW EDGE DISTANCE) AND AT ALL INTERMEDIATE SUPPORTS. A WALL CONSTRUCTED SIMILARLY CAN RESIST THE SAME SHEAR FORCE PROVIDED THE GYPSUM BOARD IS ON THE SAME SIDE OF THE STUDS AS THE CEILING IS, AND A POSITIVE CONNECTION BETWEEN THE CEILING AND THE WALL IS DETAILED. THE GYPSUM BOARD DIAPHRAGMS ARE TO RESIST LATERAL LOADS DUE TO THEIR OWN WEIGHT AND/OR THE CEILING DIAPHRAGM(S) ONLY.

5.2.3 DETAILS ARE REQUIRED PROVIDING FOR LATERAL LOAD TRANSFER FROM THE GYPSUM BOARD TO SHEAR WALLS, OR OTHER LATERAL LOAD RESISTING ELEMENTS, ON ALL FOUR SIDES OF DIAPHRAGM.

* SUSPENDED GYPSUM BOARD CEILING ASSEMBLY SHALL COMPLY WITH ALL REQUIREMENTS NOTED IN DSA IR 25-3.13



CEILING TRANSITION - GYP. BD TO ACT 16
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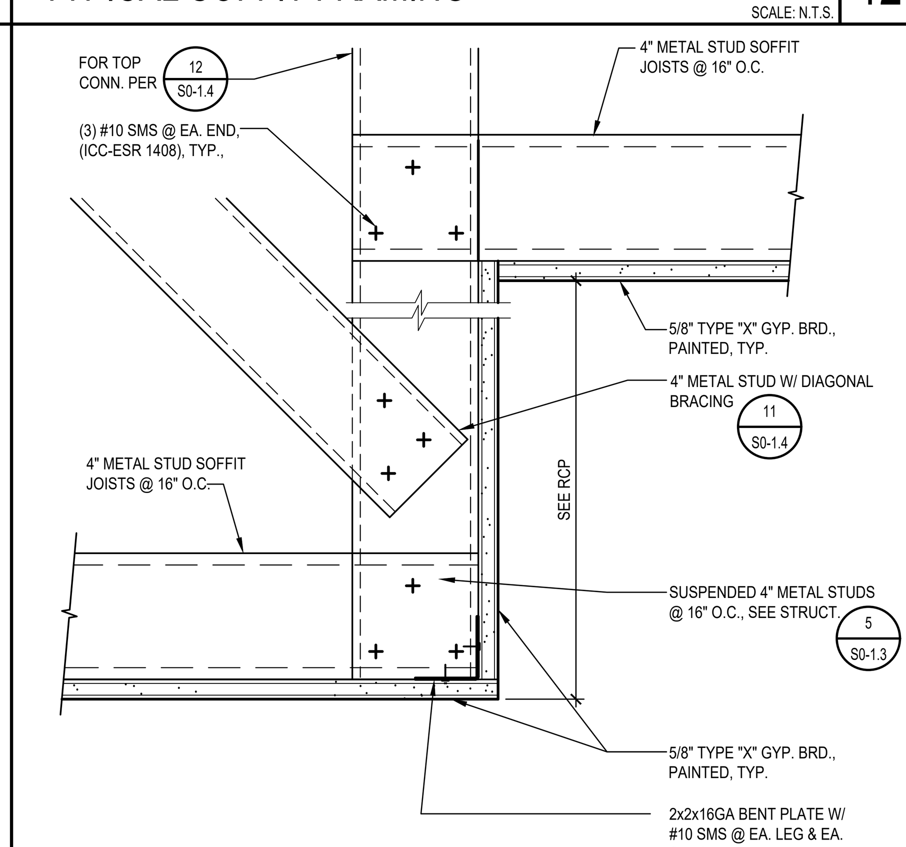

CEILING TRANSITION - GYP. BD. 17
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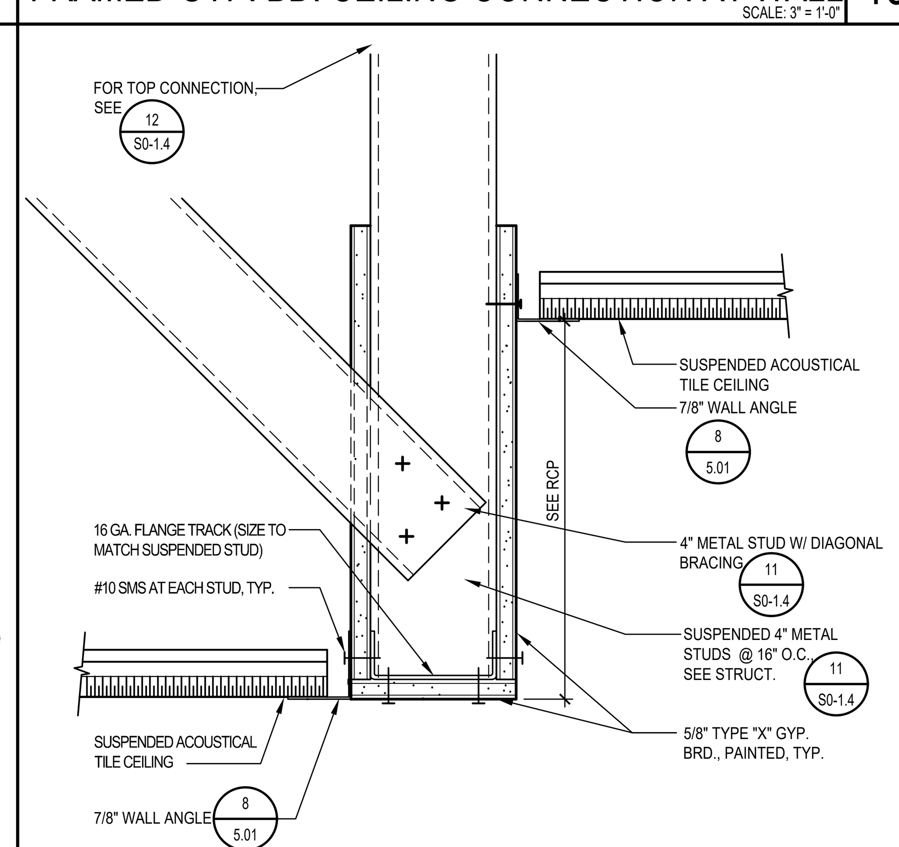

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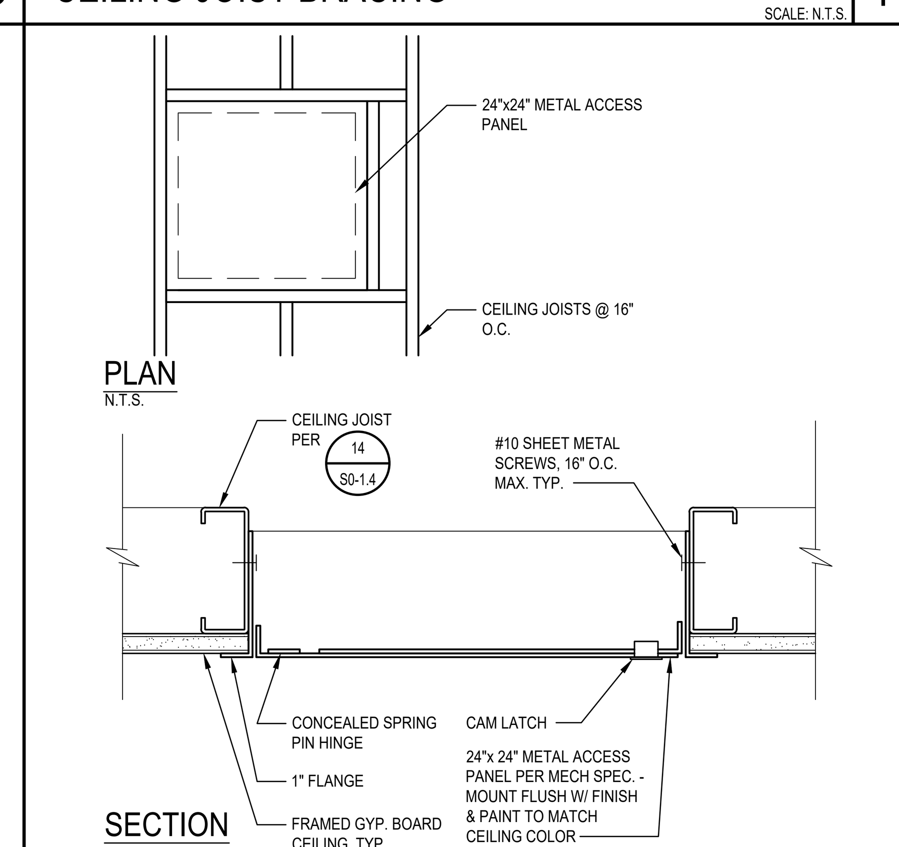
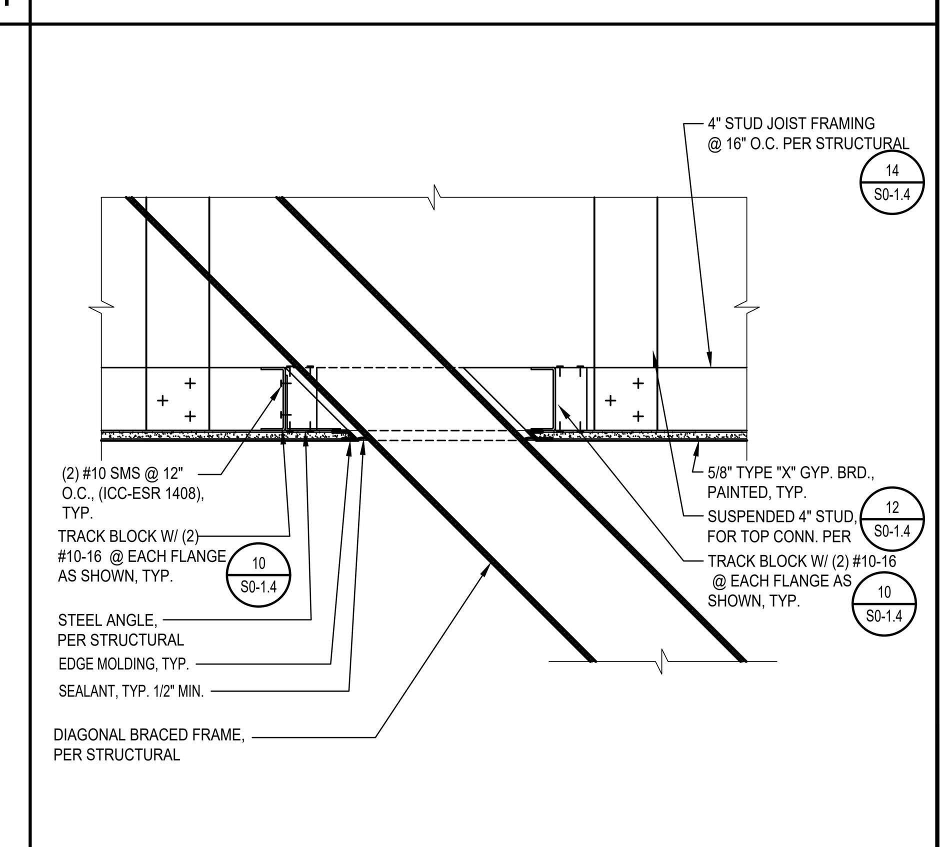


ACCESS PANEL DETAIL @ GYP.BD. 19
SCALE: 3" = 1'-0"



GYP. BD. SOFFIT PENETRATION DETAIL 20
SCALE: 1-1/2" = 1'-0"

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tBP project number : 20987.00
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drawn by: tBP checked by: T. HALL
date: 9.3.2019

Rev:	date:	description:

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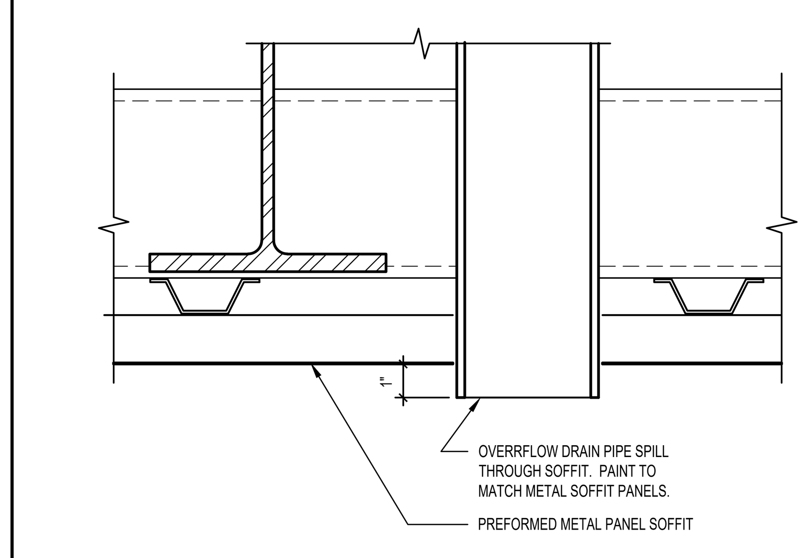
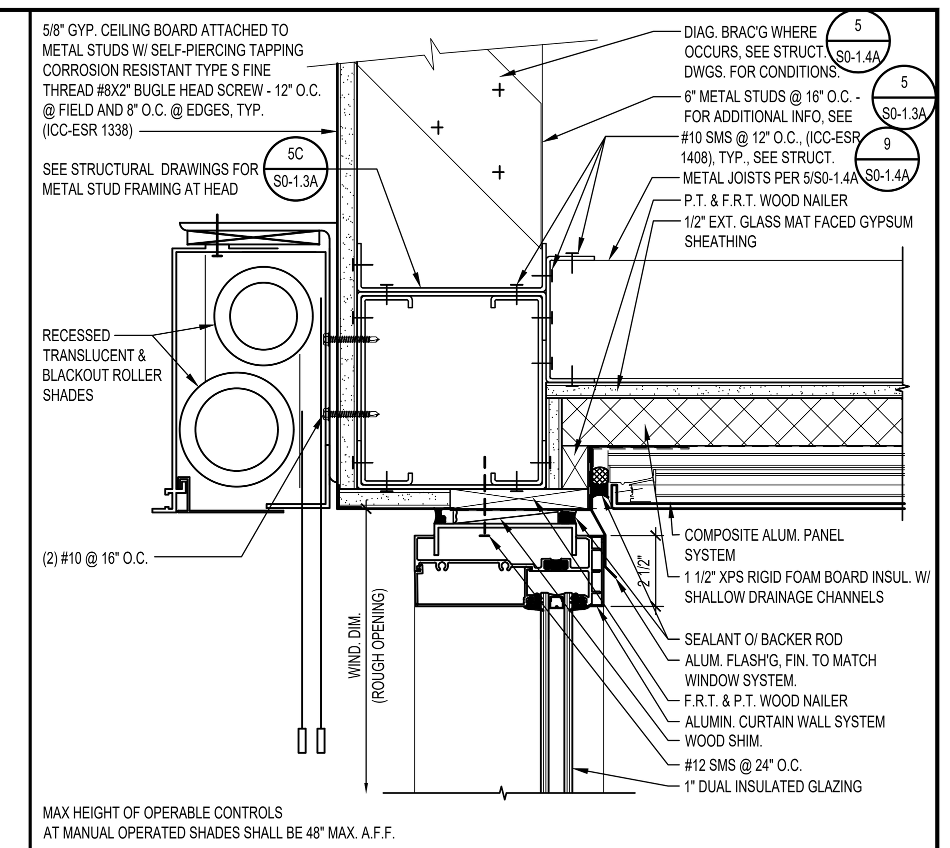
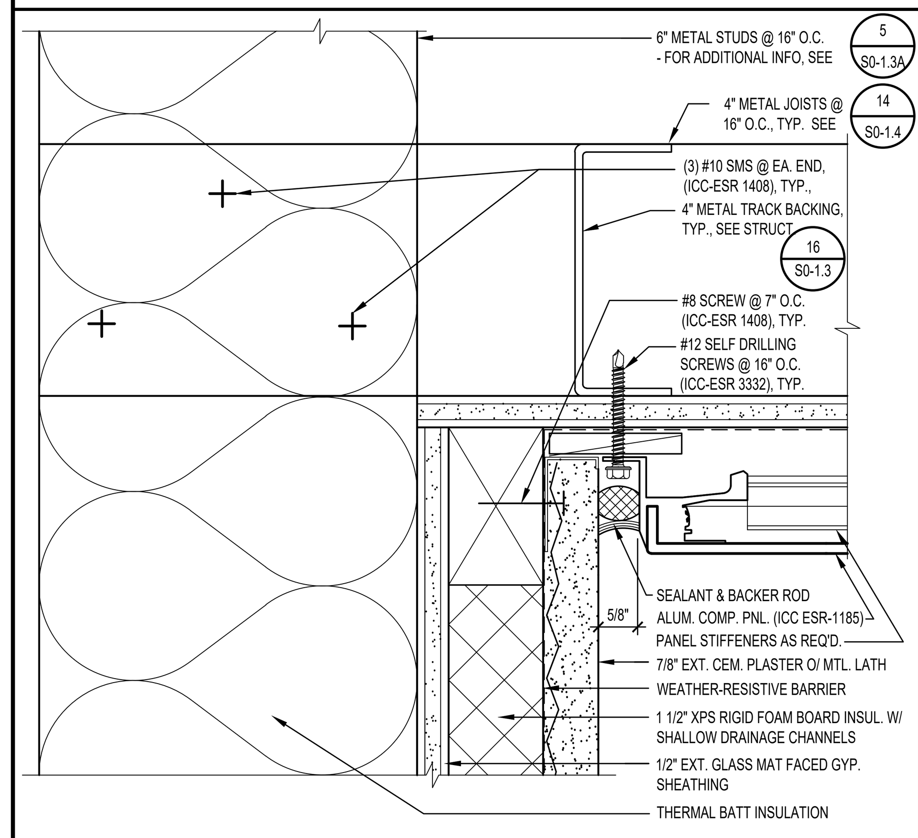
drawing no.:
5.02



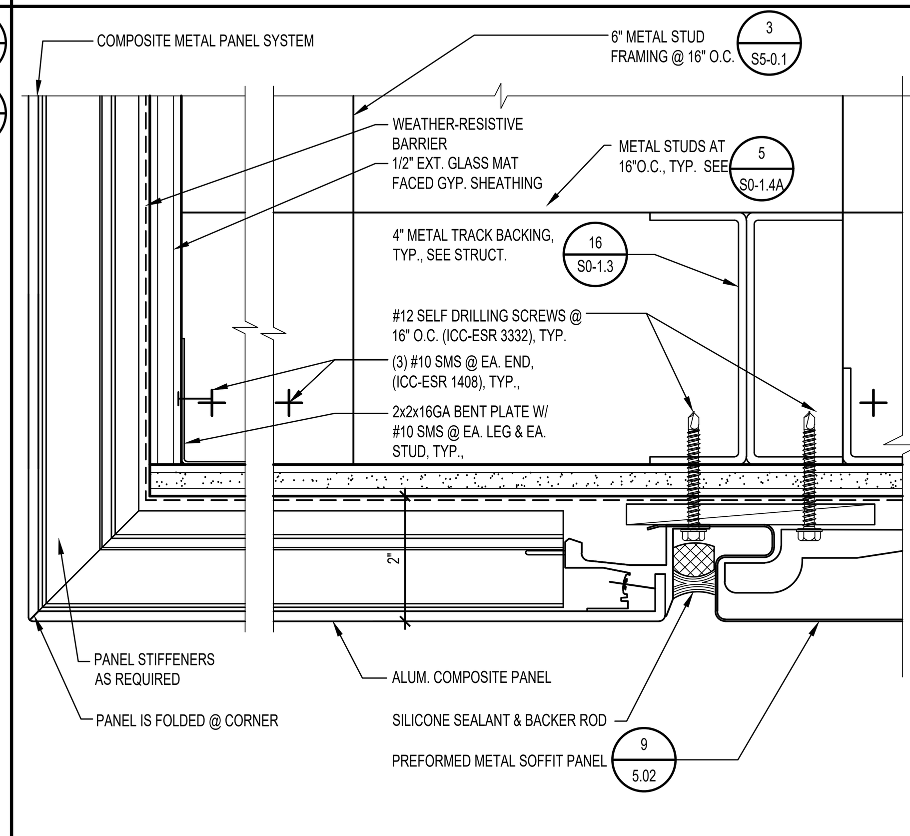
CANOPY OVERFLOW DRAIN 4
SCALE: 3"=1'-0"



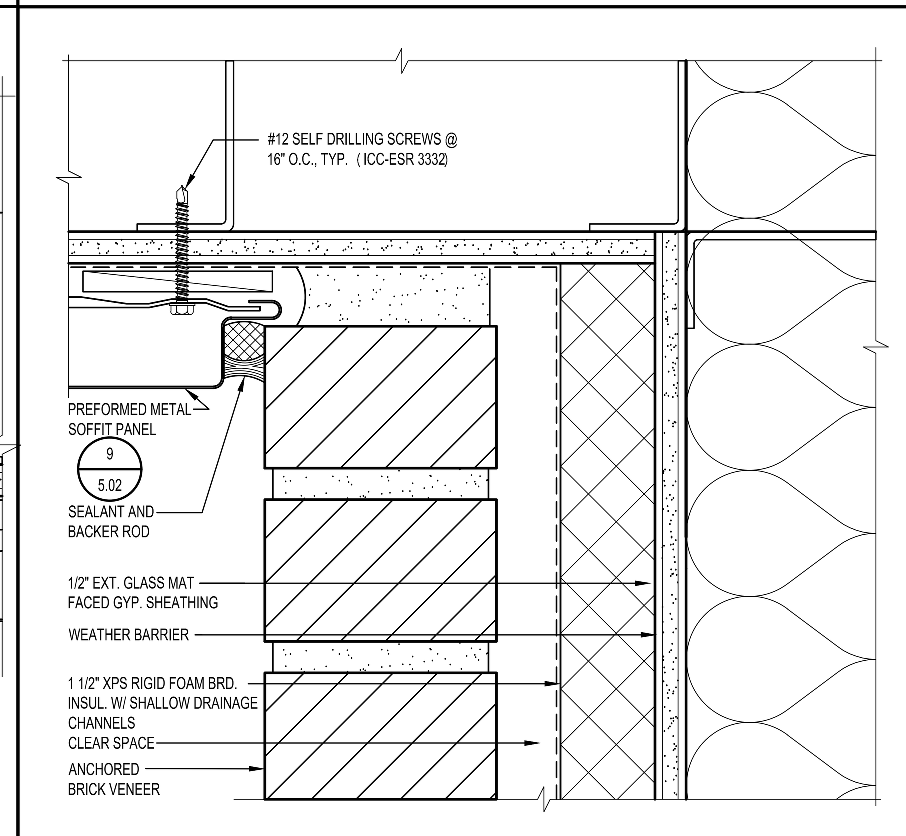
CURTAIN WALL HEAD @ ALUM. COMP. PANEL SOFFIT 5
SCALE: 3" = 1'-0"



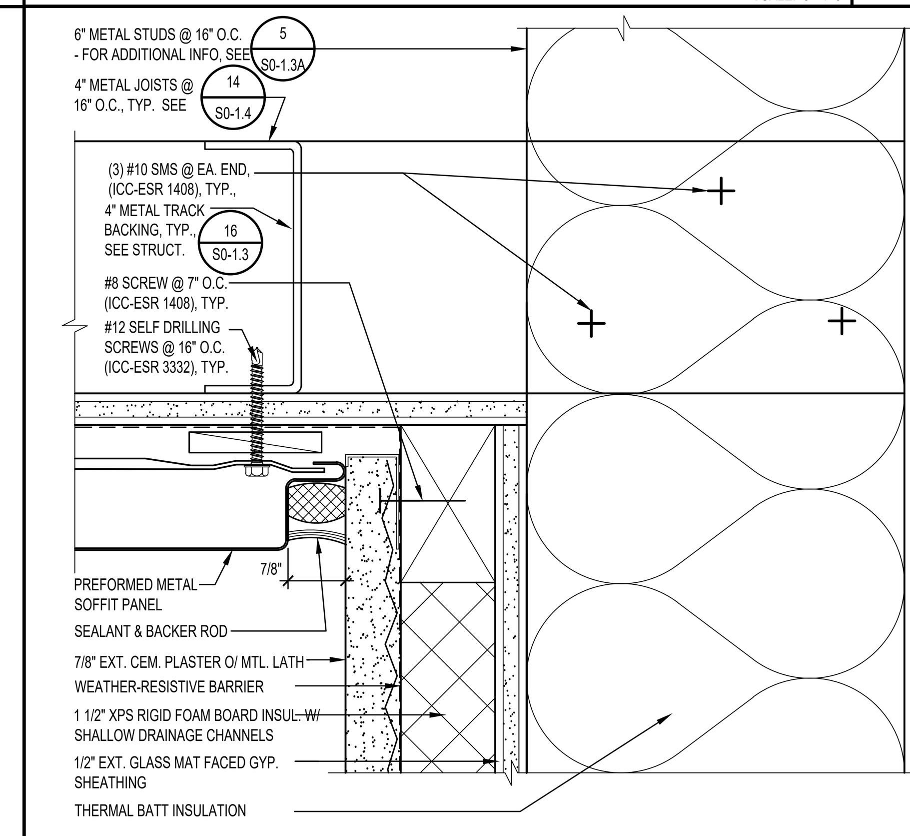
EXTERIOR CAP SOFFIT @ EXT. PLASTER WALL 6
SCALE: HALF



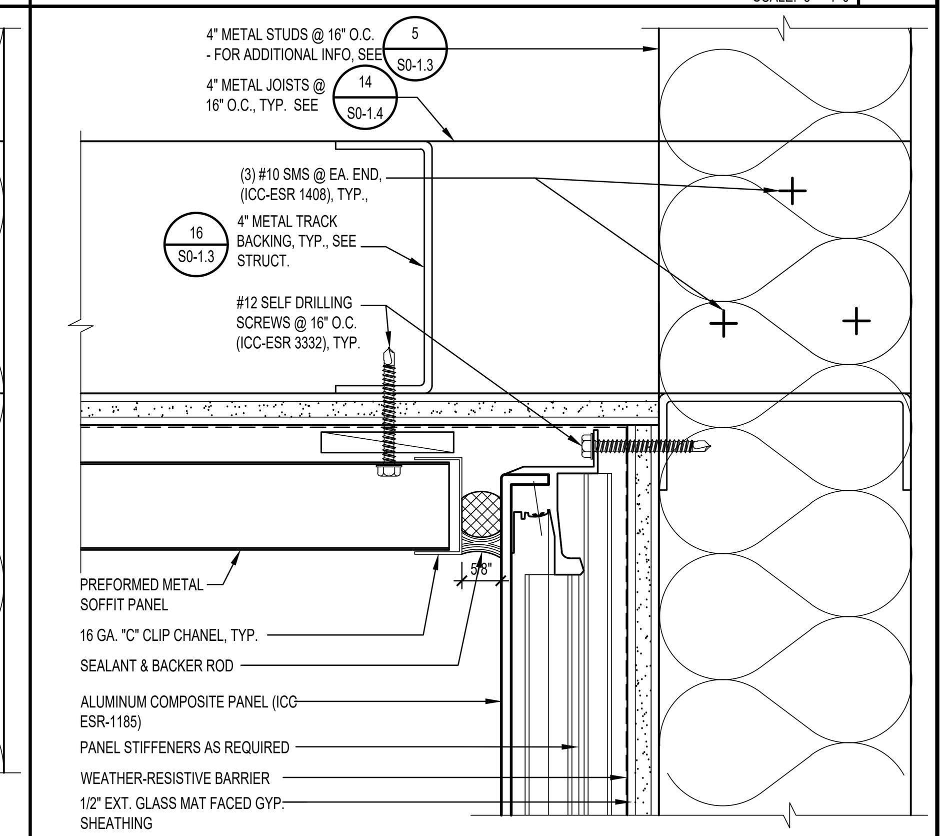
EXTERIOR SOFFIT - MATERIAL TRANSITION 7
SCALE: HALF



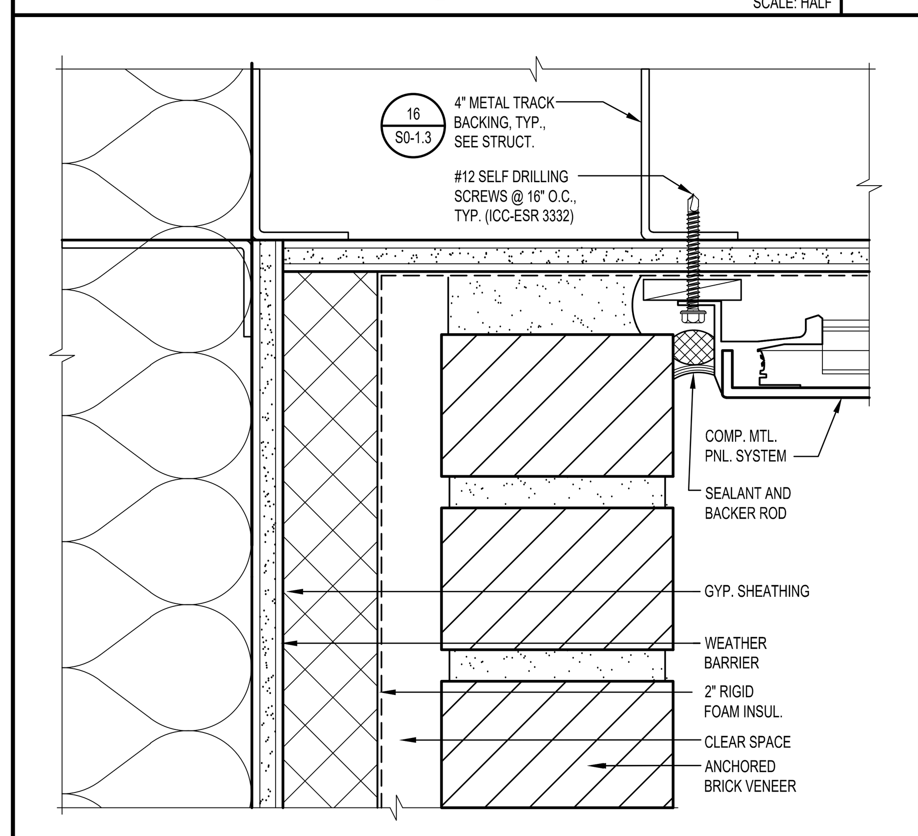
EXTERIOR SOFFIT @ BRICK VENEER WALL 8
SCALE: HALF



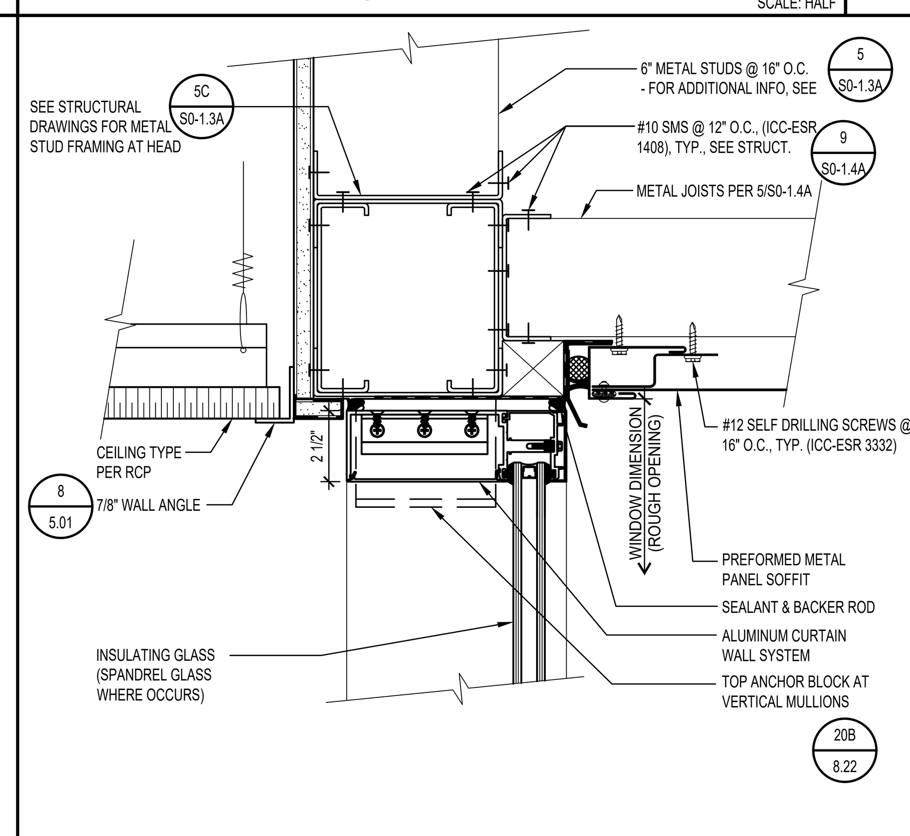
EXTERIOR CAP SOFFIT @ EXT. PLASTER WALL 9
SCALE: HALF



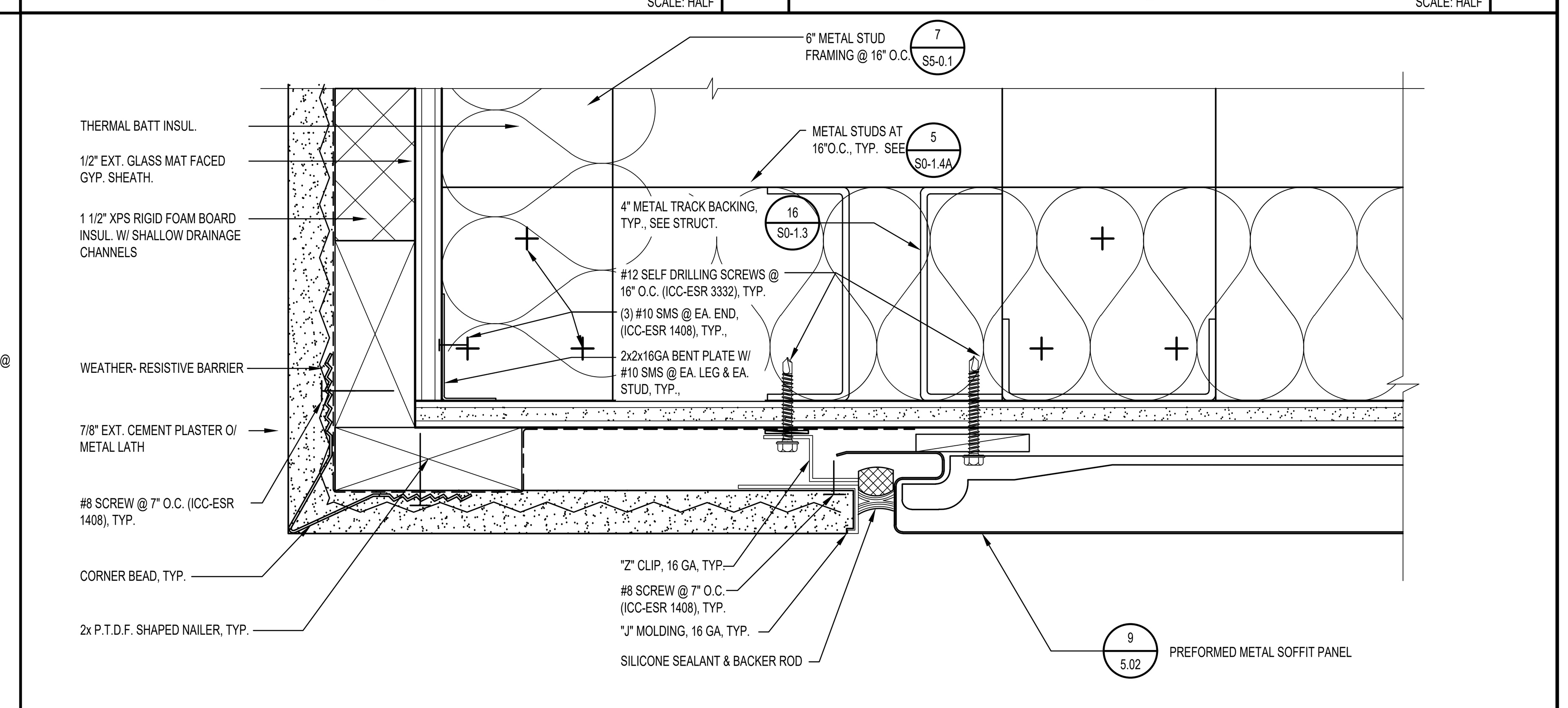
EXTERIOR CAP SOFFIT @ EXT. PLASTER WALL 10
SCALE: HALF



EXTERIOR SOFFIT @ BRICK VENEER WALL 11
SCALE: HALF



CURTAIN WALL HEAD @ METAL PANEL SOFFIT 13
SCALE: 3" = 1'-0"



EXTERIOR SOFFIT MATERIAL TRANSITION - EXT. CEMENT PLASTER / METAL SOFFIT PANEL 15
SCALE: HALF

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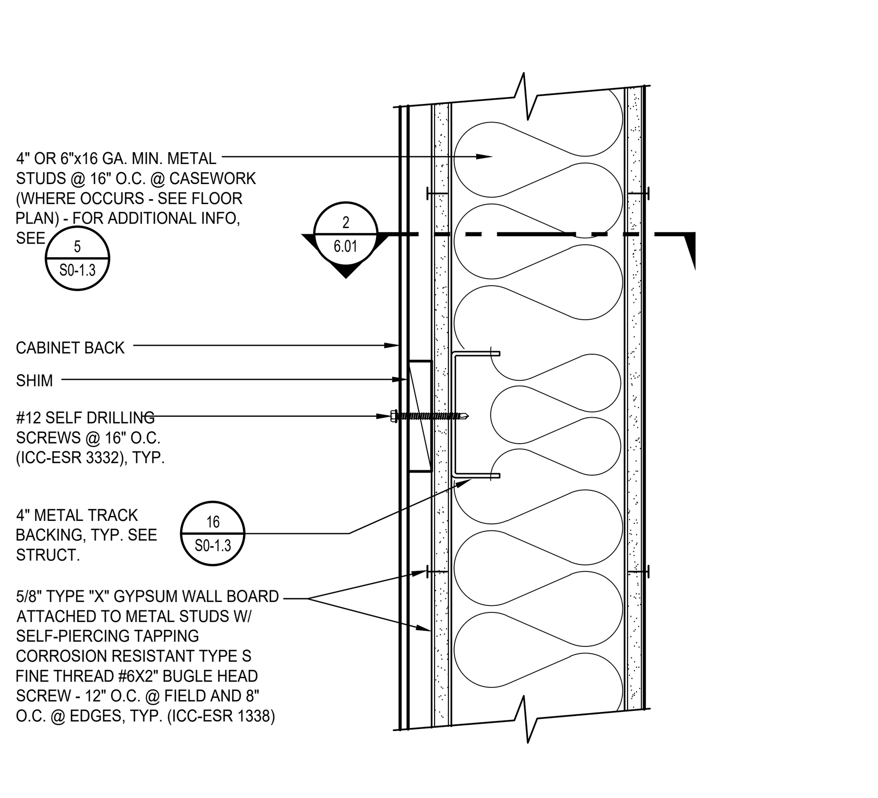
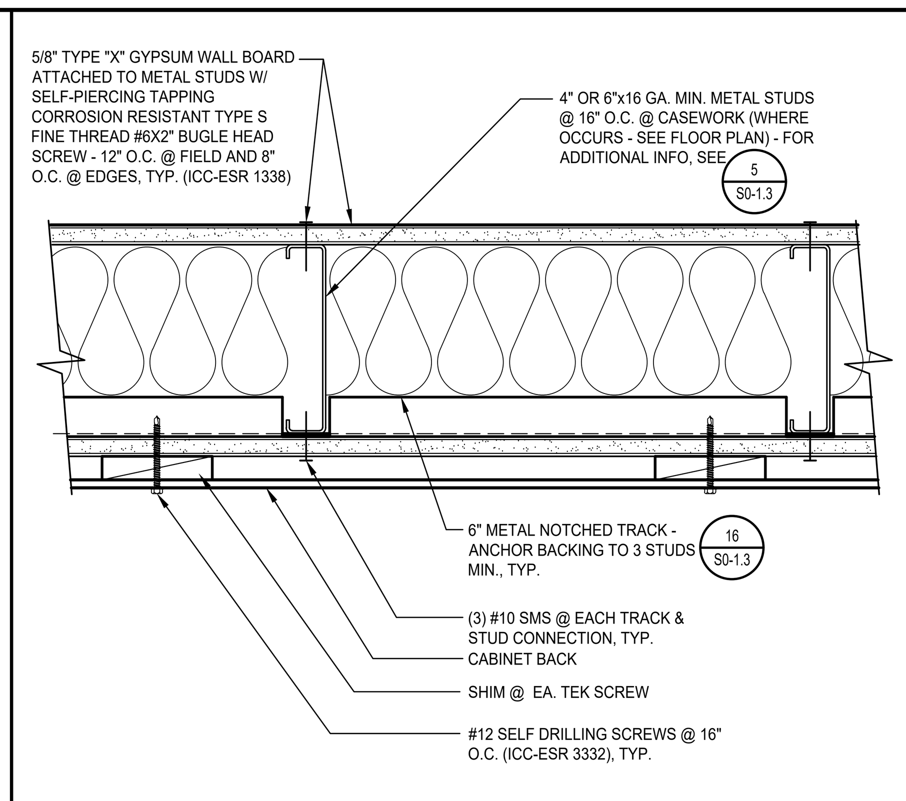
tBP project number : 20987.00
file name: DTL-0503_CLG DETAILS-EXT.DWG
drawn by: tBP checked by: T. HALL
date: 9.3.2019
Rev: date: description:

drawing title:
CEILING DETAILS EXTERIOR

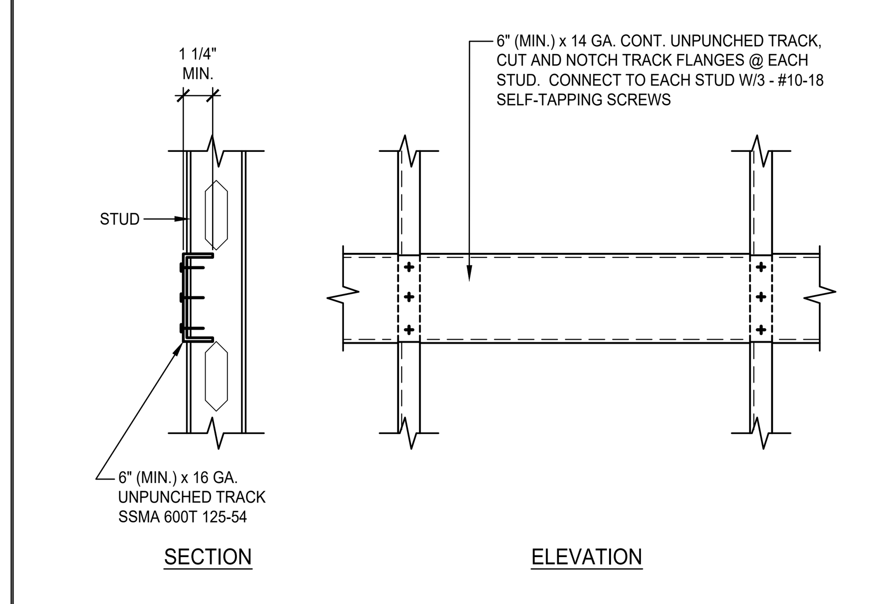
drawing no.:
5.03



BACKING SECTION - METAL STUDS — SCALE: 3" = 1'-0" — 1

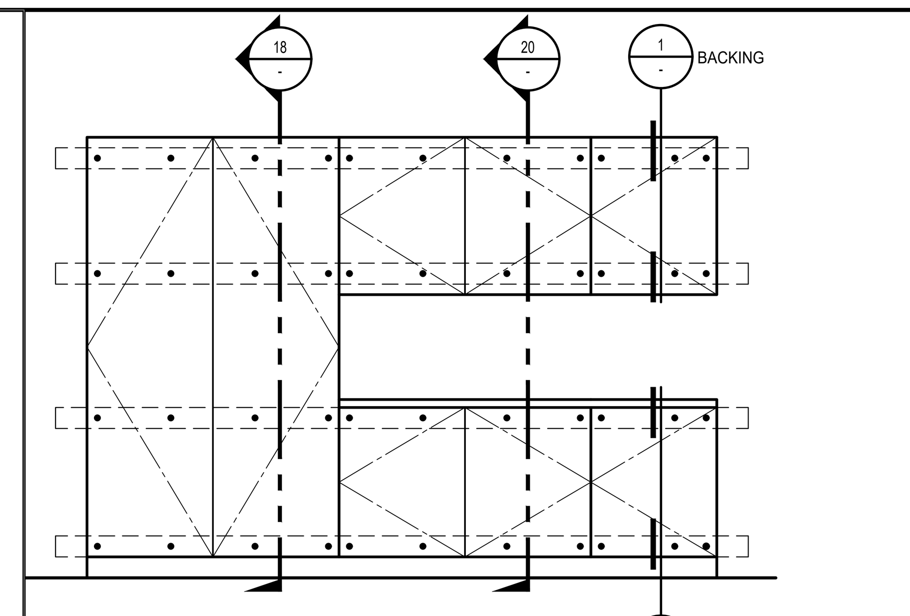


BACKING PLAN @ METAL STUDS — SCALE: 3" = 1'-0" — 2



NOTE: DO NOT CUT WALL STUDS

BACKING PLATE DETAIL — SCALE: NONE — 3



1. #12 LAG SCREWS (AT WOOD STUDS) OR #12 TEK SCREWS (AT METAL STUDS). SPACE ANCHORS AT 16" O.C. W/ MINIMUM OF ONE SCREW @ EA. TOP & BOTT. CORNER OF EACH CABINET UNIT.
2. SEE INTERIOR ELEVATIONS AND FLOOR PLANS FOR CABINET CONFIGURATION AND DIMENSIONS.
3. STUDS OF WALLS BACKING CABINETS SHALL RUN FROM SLAB TO STRUCTURE ABOVE.
4. SEE DETAILS 1/- AND 2/- THIS SHEET, FOR WALL BACKING AT MTL. STUDS.

BACKING AND ANCHORAGE DETAIL — SCALE: 1/2" = 1'-0" — 4

GENERAL NOTES - CASEWORK

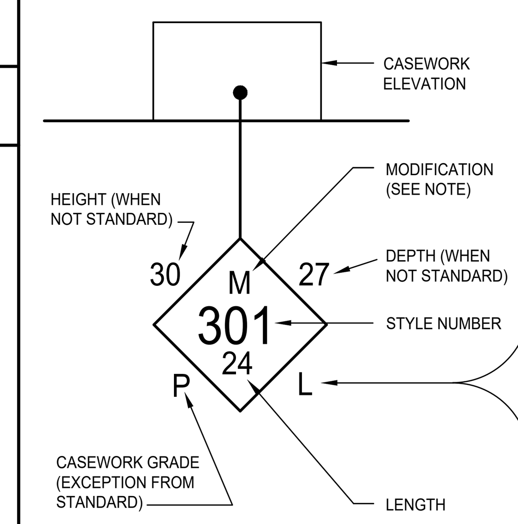
CASEWORK

1. ONLY THOSE CABINETS CALLED OUT ON BUILDING INTERIOR ELEVATIONS AND FLOOR PLANS SHALL BE PROVIDED.
2. DOOR SWINGS SHALL BE AS SHOWN ON INTERIOR ELEVATIONS. IF NOT ELEVATED, SWINGS SHALL BE AS SHOWN ON DETAIL SHEET ILLUSTRATIONS. SYMBOL 'RS' INDICATES REVERSE SWING.
3. ALL CABINET DIMENSIONS INDICATED ARE NOMINAL OUTSIDE DIMENSIONS, AND SHALL NOT BE EXCEEDED; (EXCEPTION - CABINETS ADJACENT TO WALLS MAY BE INCREASED IN LENGTH TO ELIMINATE THE NEED FOR FILLER STRIPS). A 3/4" TOLERANCE IS PERMITTED ON DIMENSIONS OVER 48". FOR 48" AND SMALLER DIMENSIONS, TOLERANCE IS LIMITED TO 1½%. HEIGHT DIMENSION OF BASE CABINETS INCLUDES FINISHED TOP.
4. ALIGN SIDE OF CABINET WITH EDGE OF DOOR FRAME WHERE OCCURS.
5. PAPER AND CHART STORAGE UNITS SHALL BE 27" DEEP UNLESS OTHER WISE NOTED.
6. ALL CASEWORK SHOWN ON INTERIOR ELEVATIONS SHEETS SHALL HAVE ADJUSTABLE SHELVES.

COUNTERTOPS AND BACKSPLASHES

1. WHERE BACKSPLASH IS INDICATED, IT SHALL BE 4" HIGH AT NON-SINK AREAS & 6" HIGH OR TO UNDERSIDE OF UPPER CABINETS AT WET AREAS (SEE INTERIOR ELEVATIONS), TOP MOUNTED TYPE, HAVING SQUARE TOP WITH SELF EDGE.

SYMBOLS AND NOTATIONS FOR CABINETS



SYMBOL NOTATIONS

- C - CHALKBOARD ON BACK
- CD - CHALKBOARD ON DOOR
- ML - METAL LEGS TO REPLACE CASTERS
- WL - WOODEN LEGS TO REPLACE CASTERS
- G - GLIDES TO REPLACE CASTERS
- L - LOCKS REQUIRED AT ALL DOORS AND/OR DRAWERS IN CABINETS
- M - MODIFICATION TO STYLE ONLY
- RS - REVERSE SWING OF DOOR FROM THAT SHOWN ON DETAIL SHEETS
- T - TACK BOARD ON BACK
- TD - TACK BOARD ON DOOR
- X - IN LIEU OF STYLE NO. INDICATES SPECIAL DESIGN NOT ILLUSTRATED ON DETAIL SHEETS
- 7 - SUFFIX ON 100 AND 200 SERIES CONVERTS BASE UNITS TO MOVEABLE UNITS

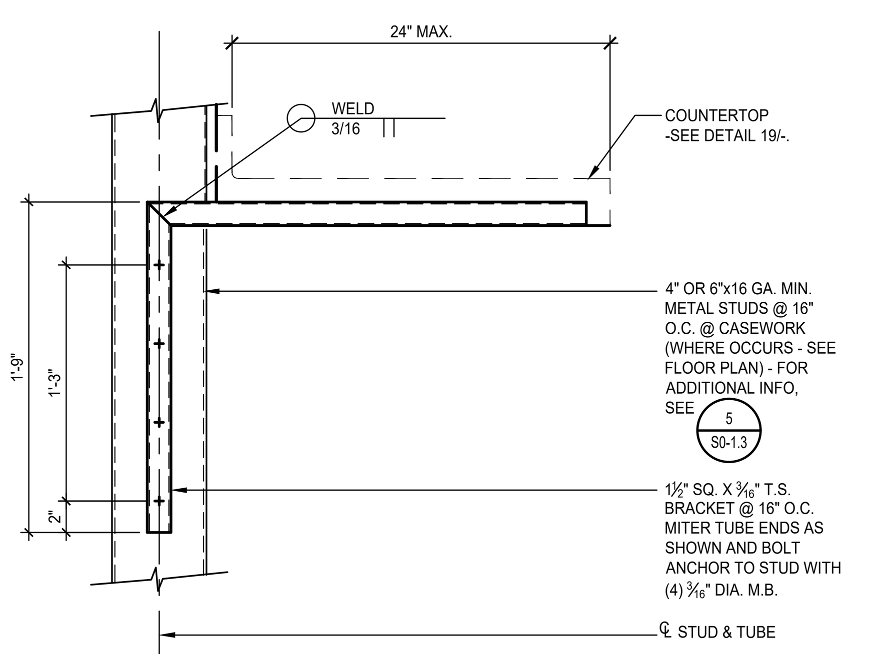
COUNTERTOP NOTATIONS

- LAM. PLAS. - LAMINATED PLASTIC
- HD. BD. - HARDBOARD
- HDWD. - HARDWOOD
- CST - COMPOSITION STONE
- LAB. GRADE - ACID-RESISTANT LAMINATED PLASTIC
- EP. RES. - EPOXY RESIN

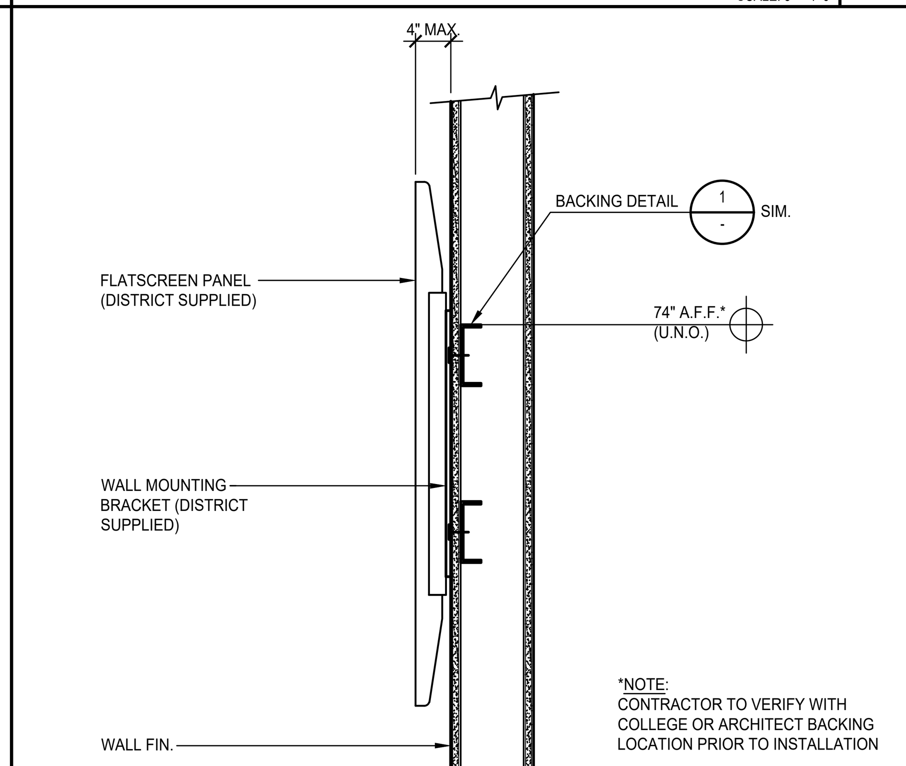
CASEWORK GRADES

- P - PREMIUM
- C - CUSTOM (TYPICAL GRADE U.N.O.)
- E - ECONOMY
- LAB - LABORATORY

SEE DETAIL 14 / - FOR WIC DESIGN REFERENCE



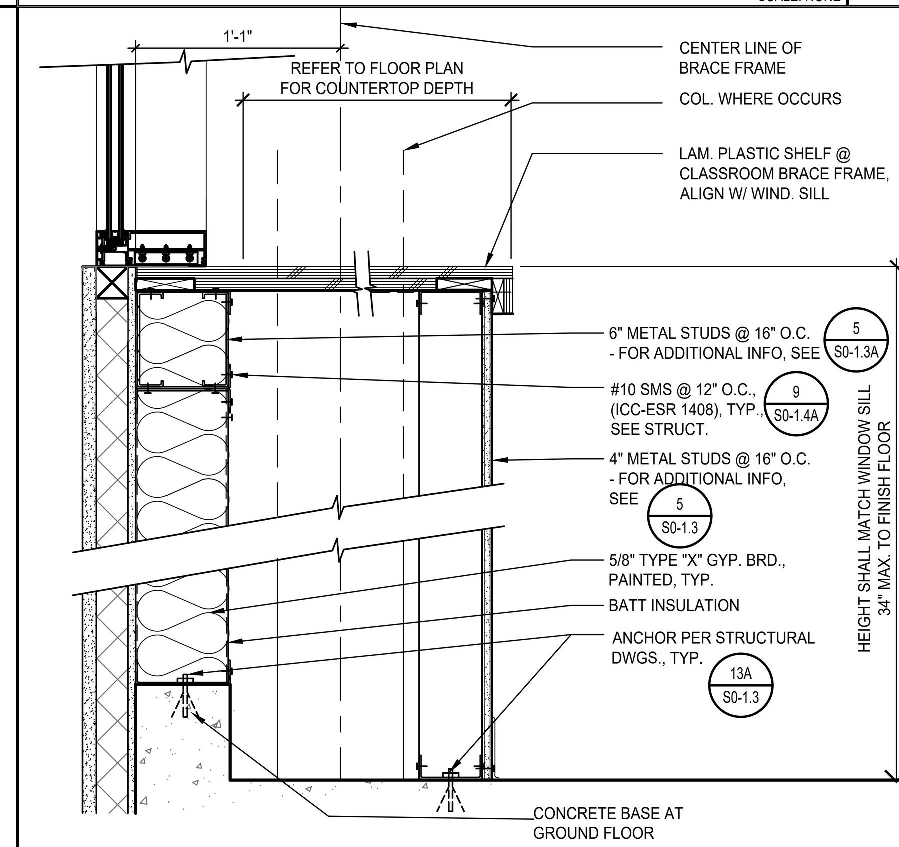
TYPICAL WALL HUNG COUNTER — SCALE: 1-1/2" = 1'-0" — 6



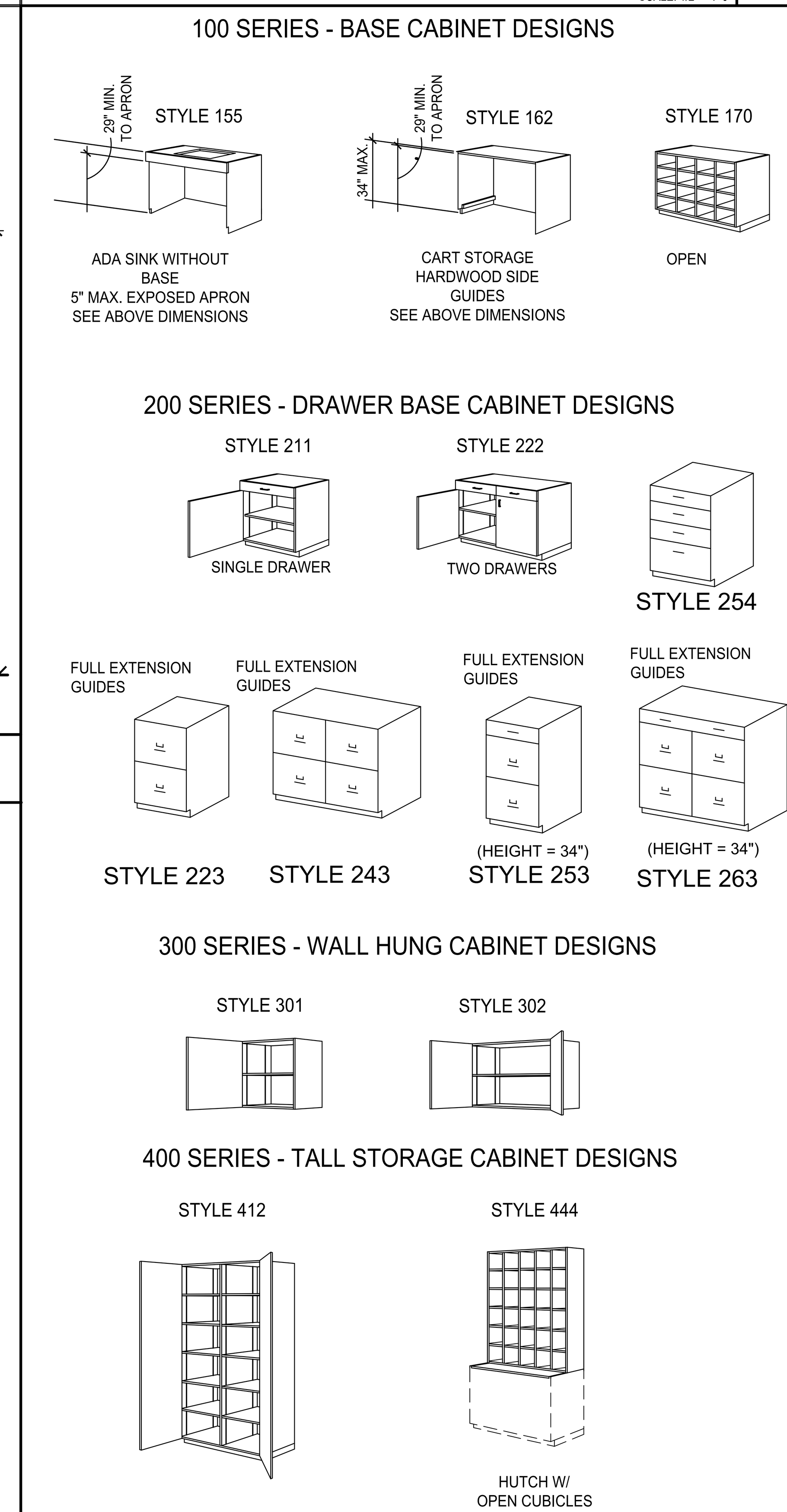
*NOTE: CONTRACTOR TO VERIFY WITH COLLEGE OR ARCHITECT BACKING LOCATION PRIOR TO INSTALLATION

DETAIL IS TYPICAL FOR ALL MONITORS, TV'S AND VISUAL DISPLAY BOARDS

FLAT SCREEN PANEL MOUNT — SCALE: 1-1/2" = 1'-0" — 7



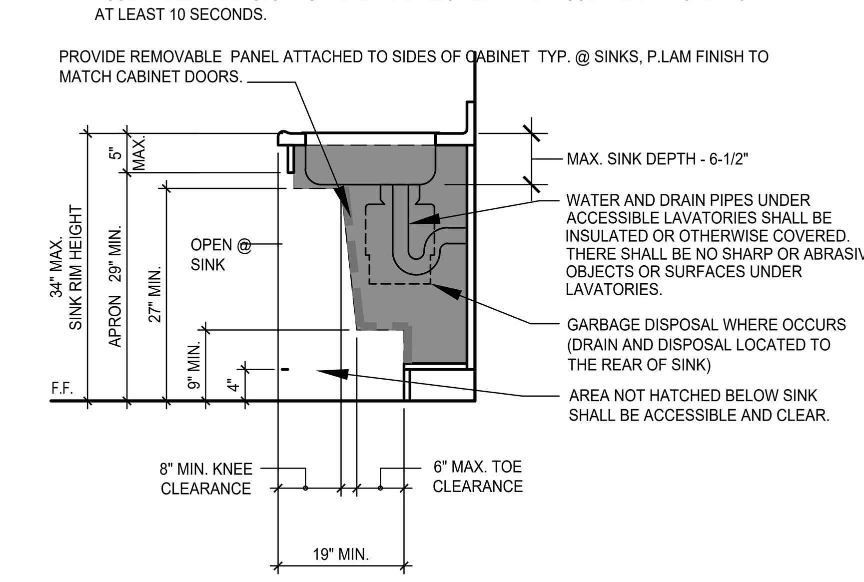
SHELF DETAIL @ BRACE FRAME — SCALE: 1-1/2" = 1'-0" — 8



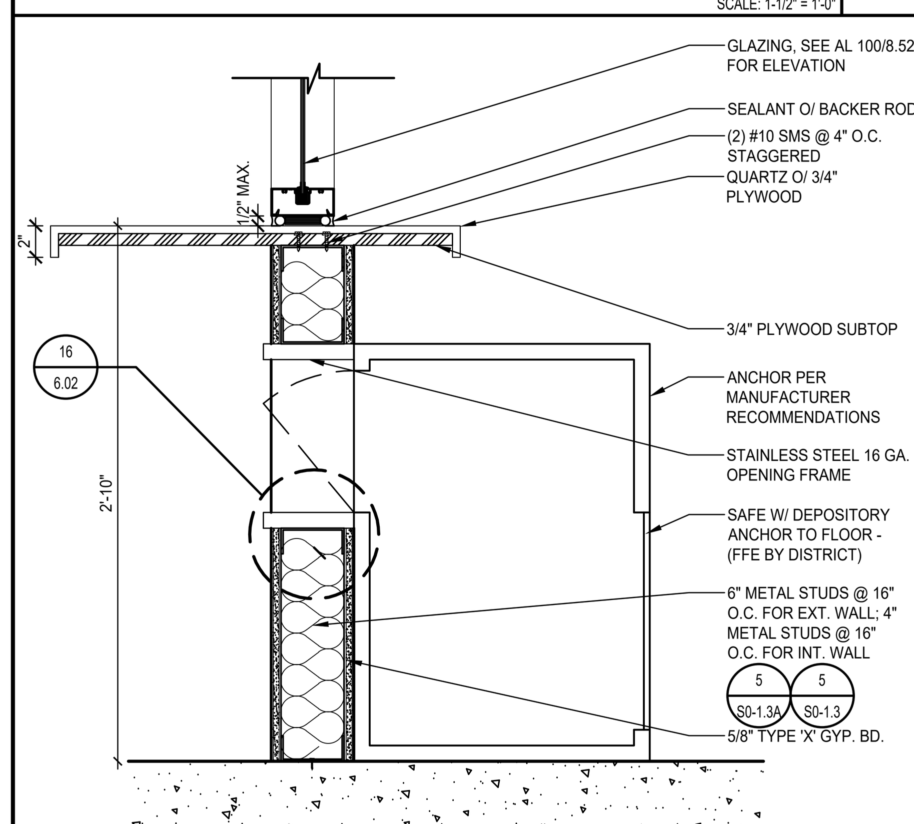
WOODWORK INSTITUTE CABINET DESIGNS — N.T.S. — 14

NOTES

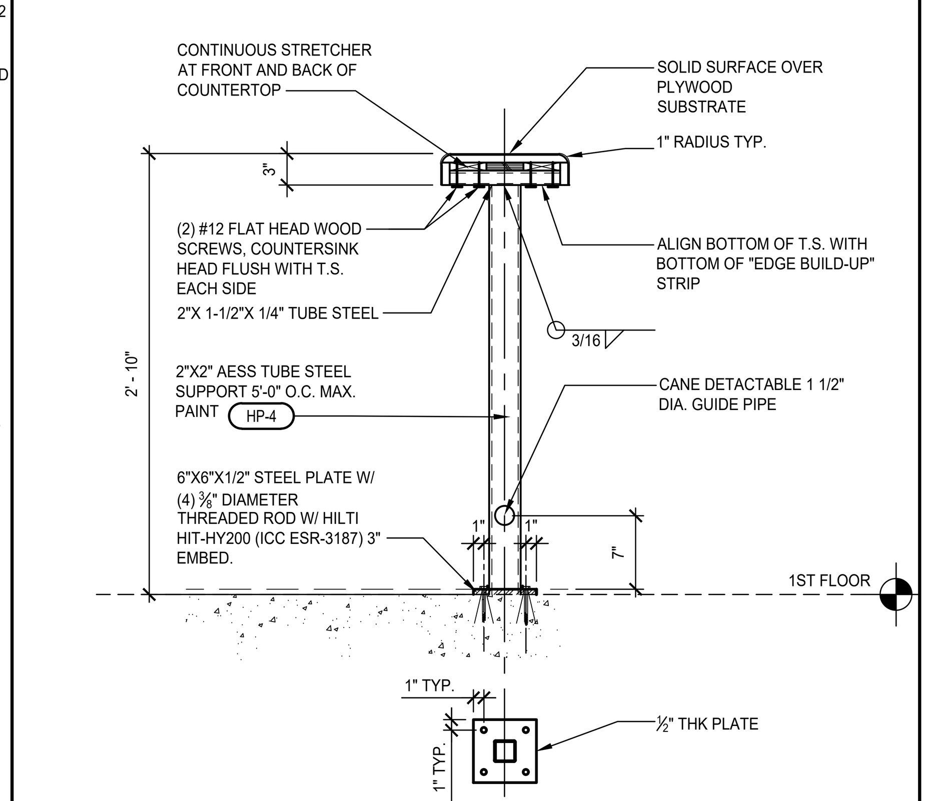
1. FAUCET CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO MORE THAN 5 LBS. LEVER OPERATED, PUSH TYPE AND ELECTRONICALLY CONTROLLED MECHANISMS ARE ACCEPTABLE. SELF CLOSING VALVES ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS.



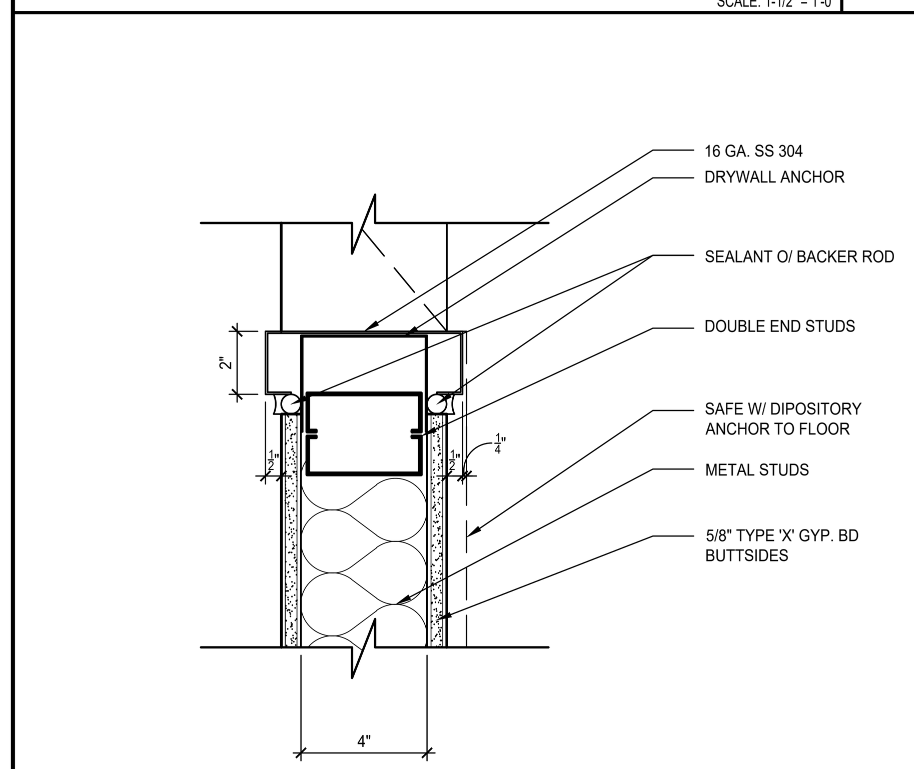
ACCESSIBLE SINK SECTION — SCALE: 3/4" = 1'-0" — 15



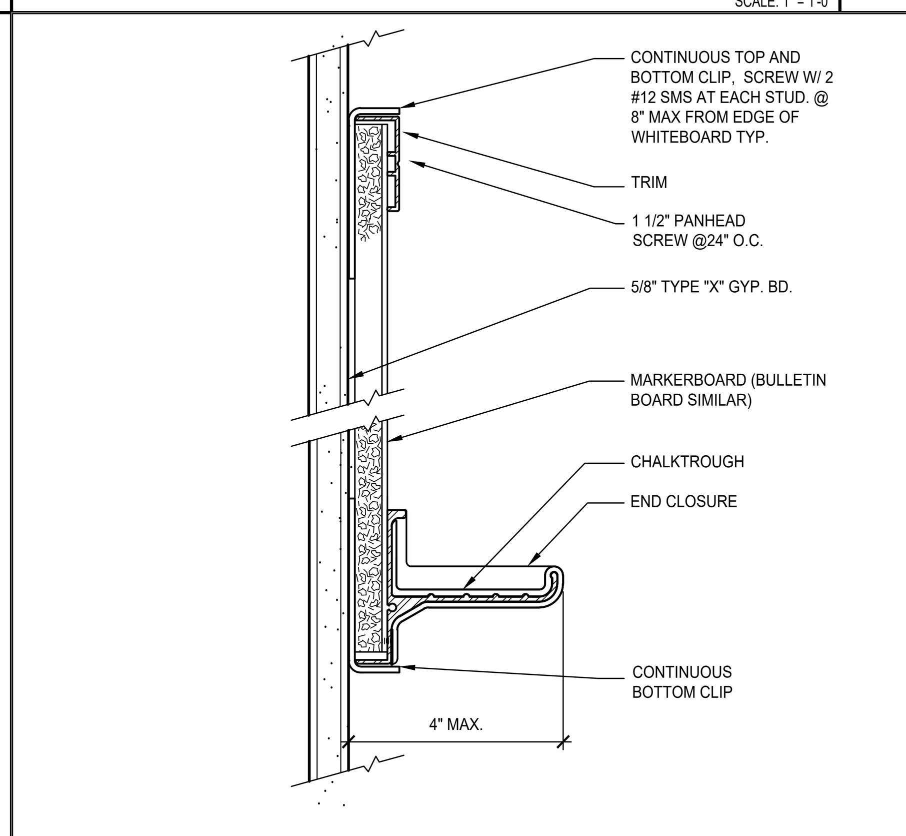
DROP SLOT COUNTER DETAIL — SCALE: 1-1/2" = 1'-0" — 11



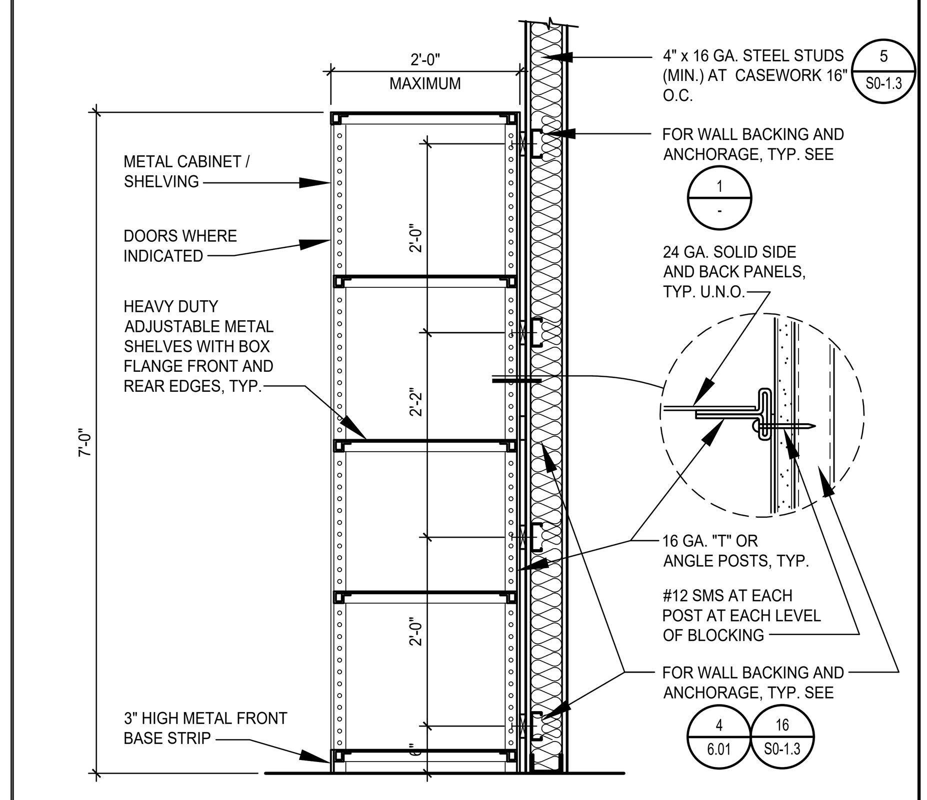
CURVED COUNTER TOP — SCALE: 1" = 1'-0" — 12



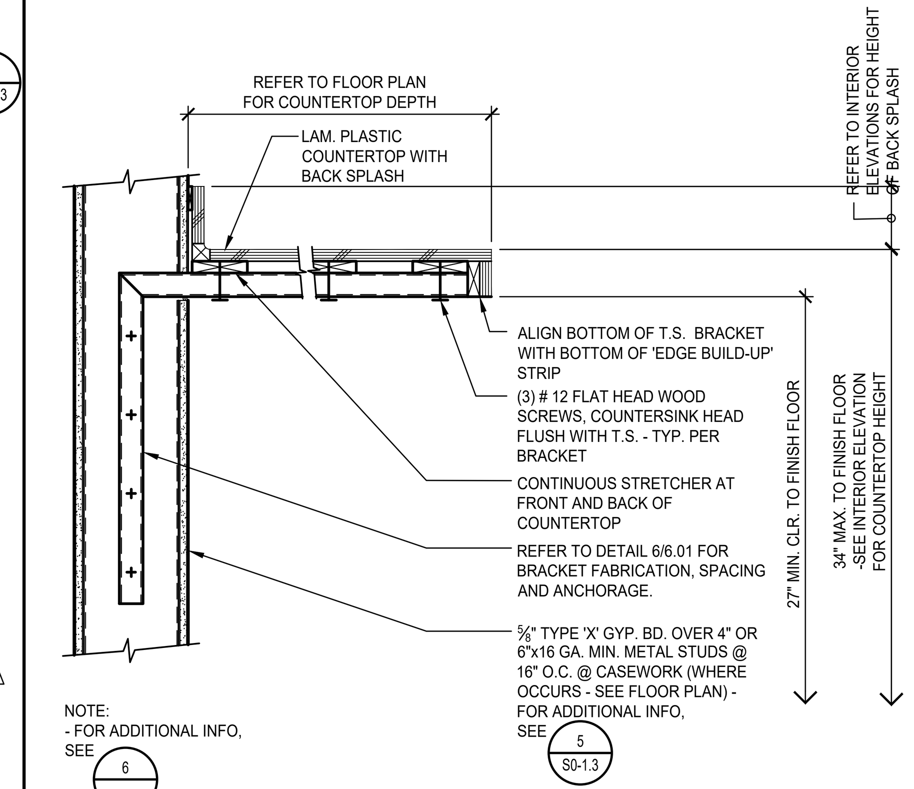
DEPOSITORY FRAME - JAMB/HEAD/SILL — SCALE: 3" = 1'-0" — 16



MARKERBOARD/BULLETIN BOARD ATTACHMENT — SCALE: HALF — 17

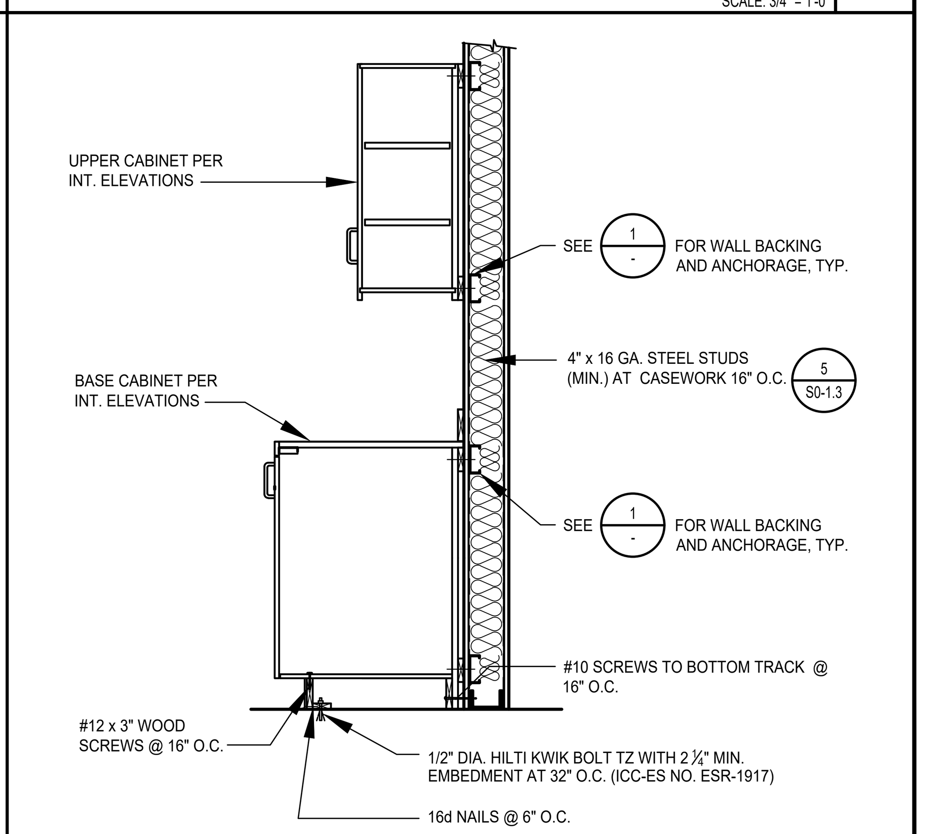


METAL CABINET / SHELVING ANCHORAGE — SCALE: 3/4" = 1'-0" — 18



NOTE: - FOR ADDITIONAL INFO, SEE 6 -

LAM. PLASTIC COUNTERTOP DETAIL — SCALE: 1-1/2" = 1'-0" — 19



TYPICAL CASEWORK ANCHORAGE — SCALE: 3/4" = 1'-0" — 20

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drawn by: tBP checked by: T. HALL

date: 9.3.2019

Rev:	date:	description:

drawing title:
TYPICAL CASEWORK DETAILS

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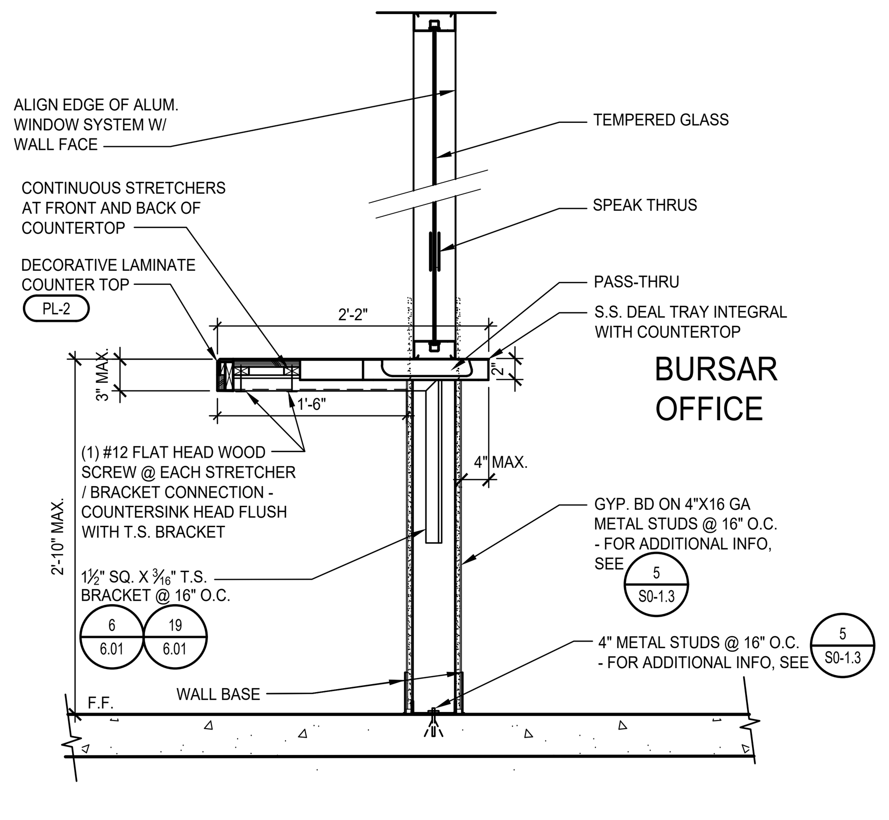
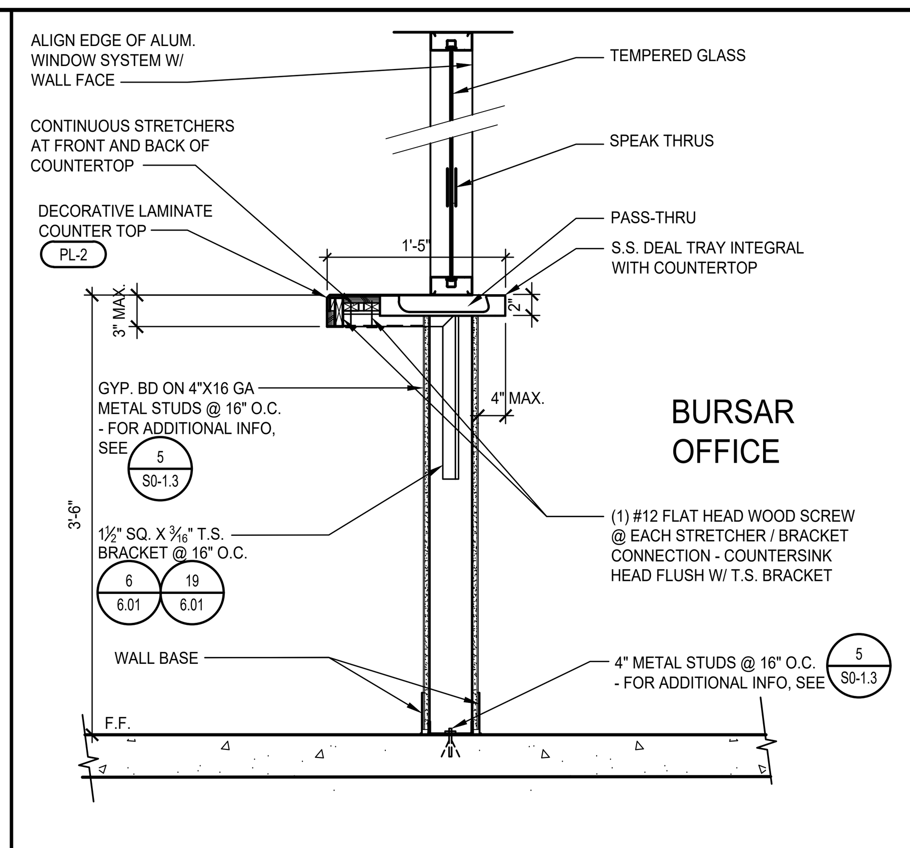
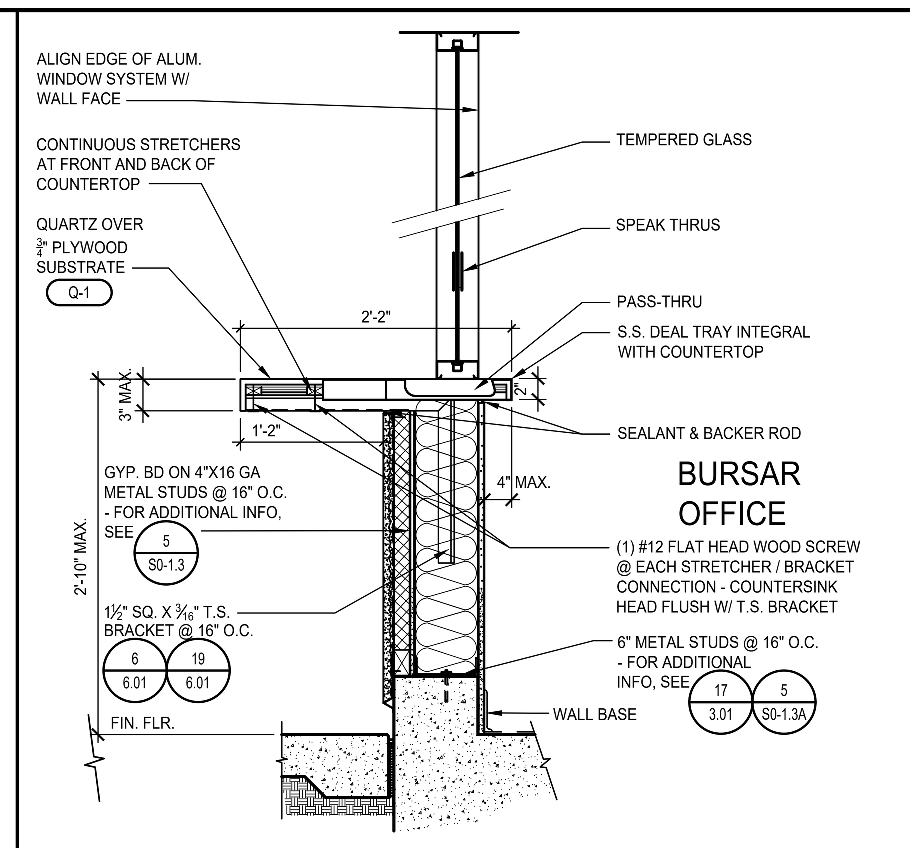


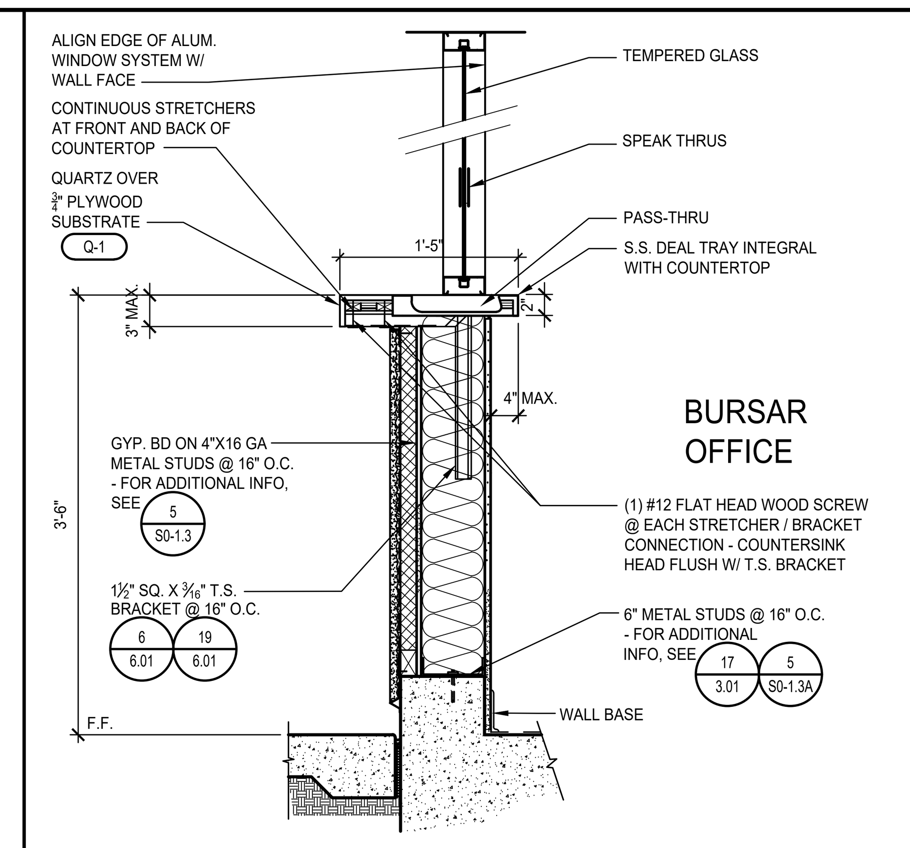
INT. ACCESSIBLE TRANSACTION COUNTER 1 SCALE: 1" = 1'-0"



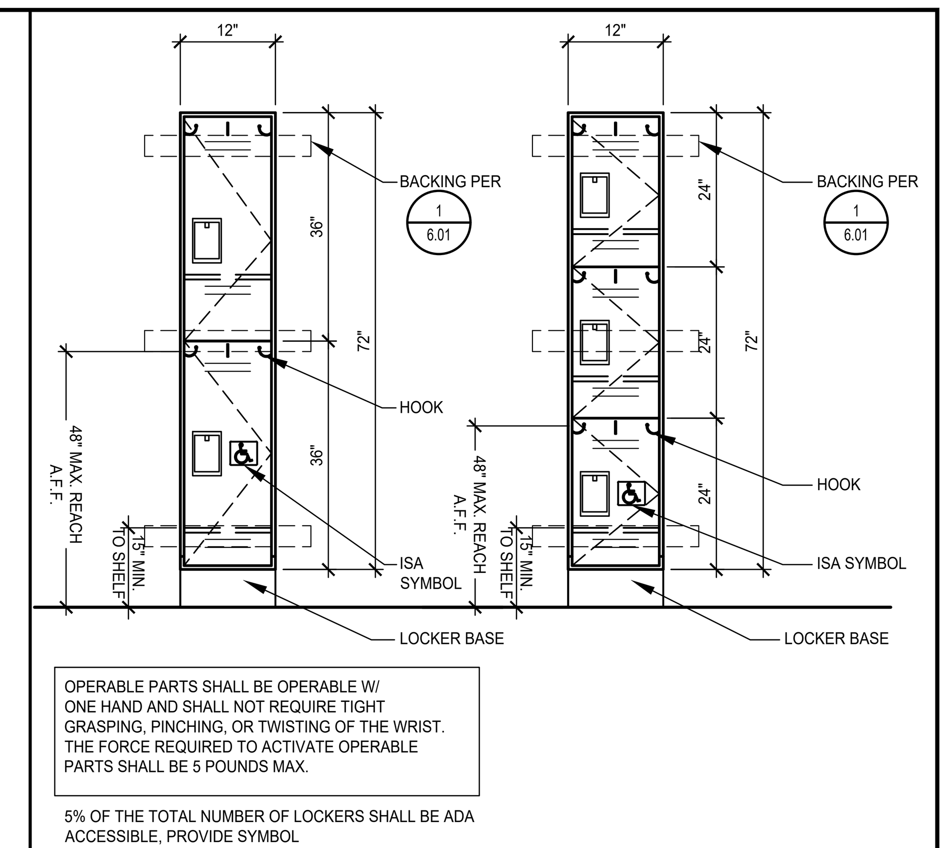
INT. NON- ACCESSIBLE TRANSACTION COUNTER 2 SCALE: 1" = 1'-0"



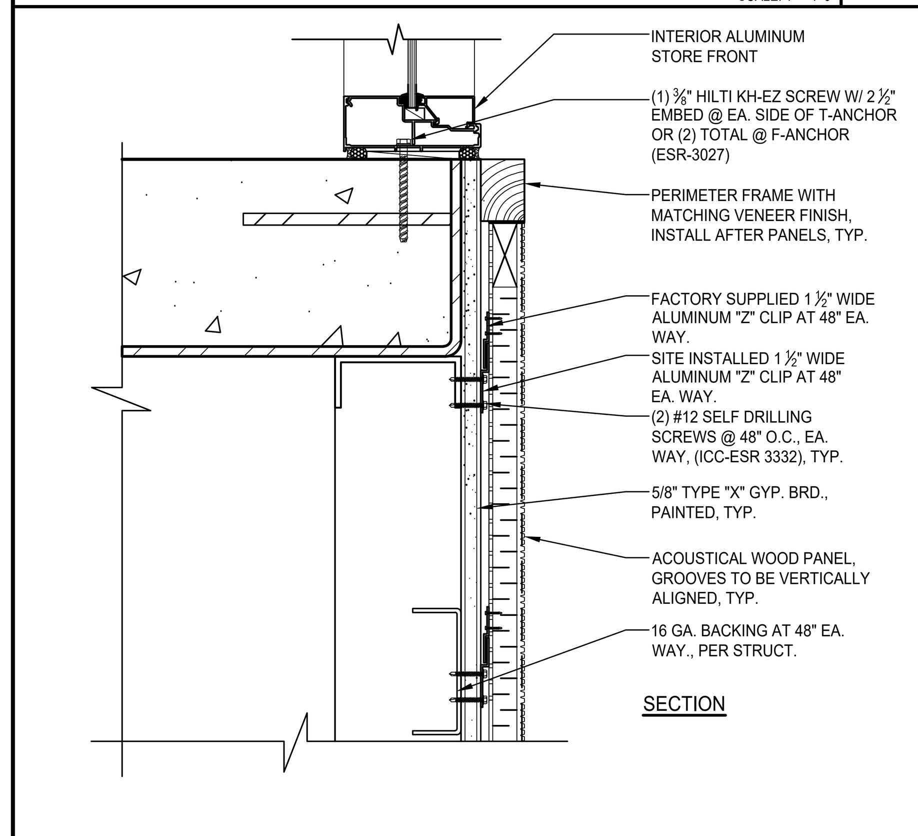
EXT. ACCESSIBLE TRANSACTION COUNTER 3 SCALE: 1" = 1'-0"



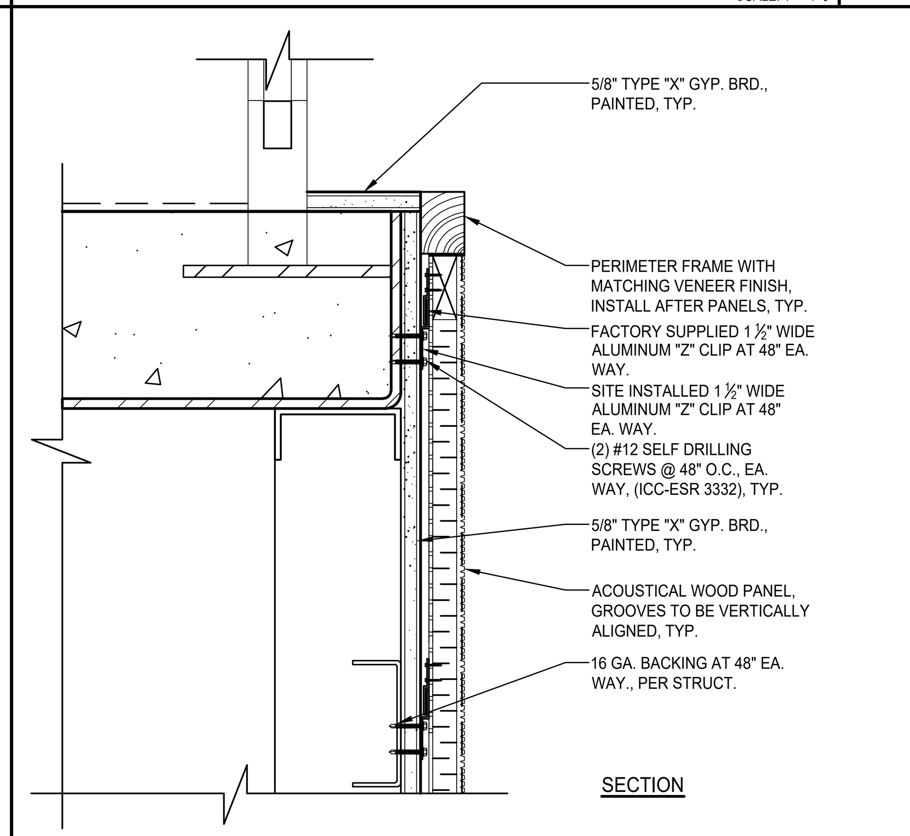
EXT. NON- ACCESSIBLE TRANSACTION COUNTER 4 SCALE: 1" = 1'-0"



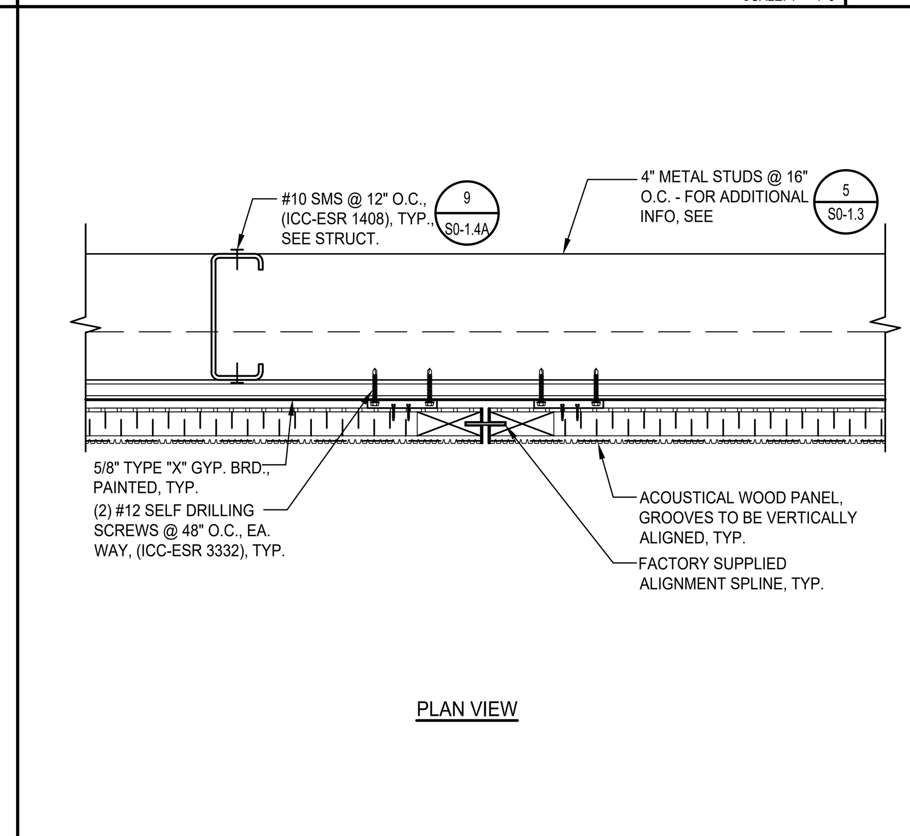
LOCKERS ELEVATION 5 SCALE: 1-1/2" = 1'-0"



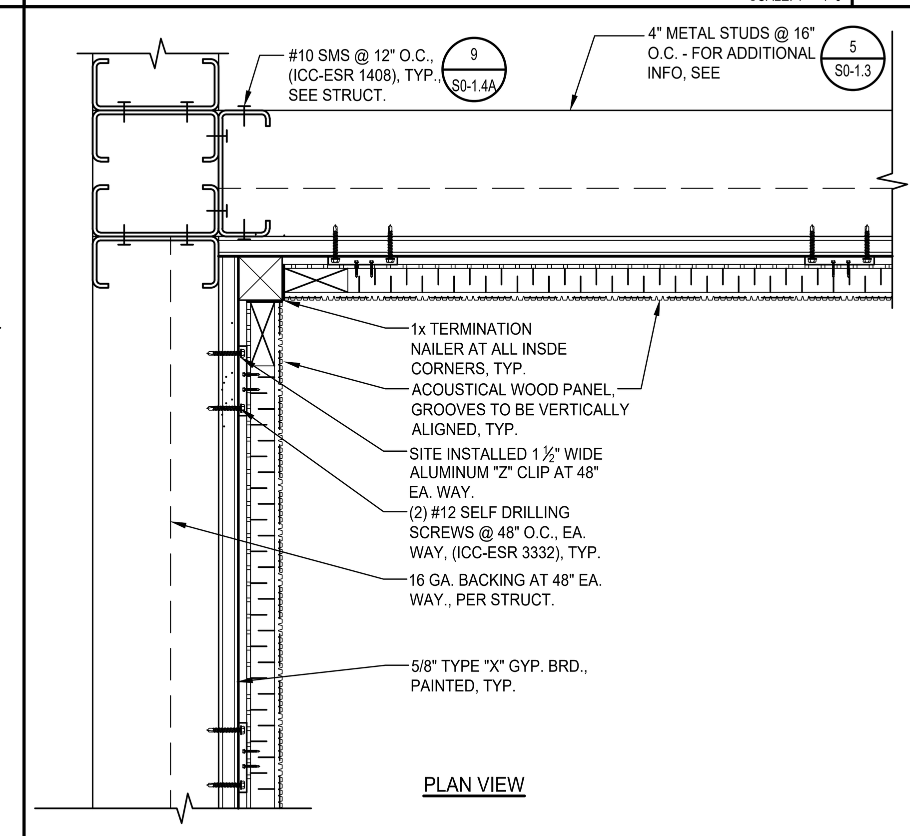
INT. STOREFRONT - SILL 6 SCALE: 3" = 1'-0"



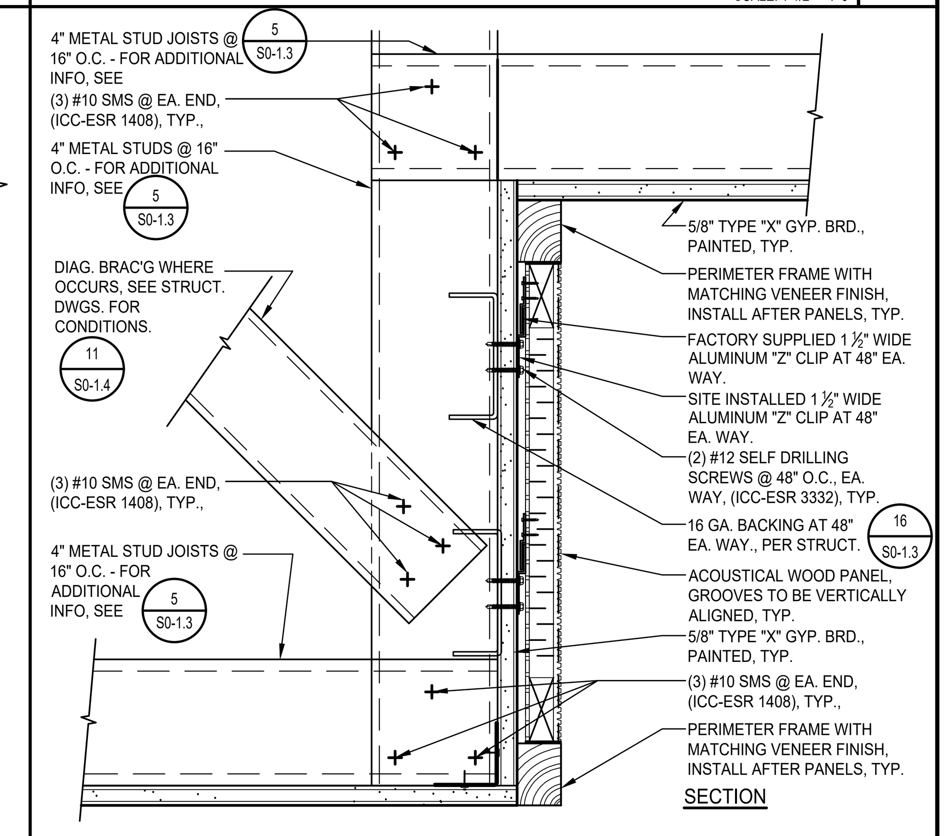
WALL MOUNT. ACOUST. PANELS AT GUARDRAIL 7 SCALE: 3" = 1'-0"



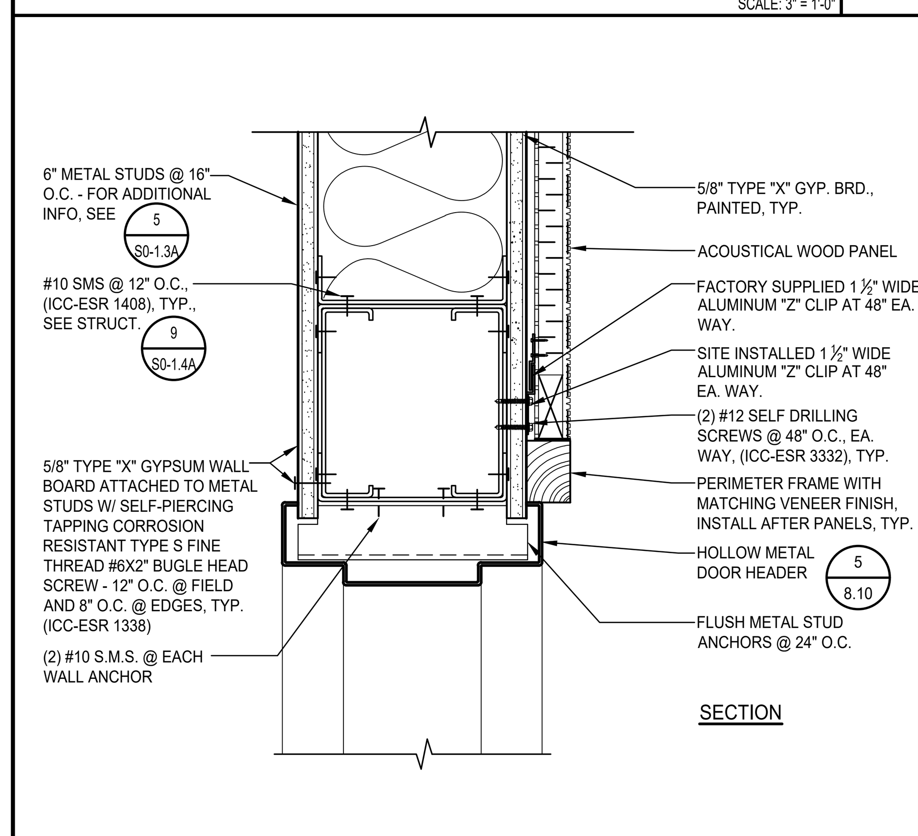
ACOUSTIC PANELS AT VERTICAL JOINTS 8 SCALE: 3" = 1'-0"



WALL MOUNT. ACOUSTIC PANELS AT CORNERS 9 SCALE: 3" = 1'-0"



WALL MOUNT. ACOUSTIC PANELS AT SOFFITS 10 SCALE: 3" = 1'-0"



WALL MOUNT. ACOUSTIC PANELS AT HEADER 11 SCALE: 3" = 1'-0"

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drawing title:
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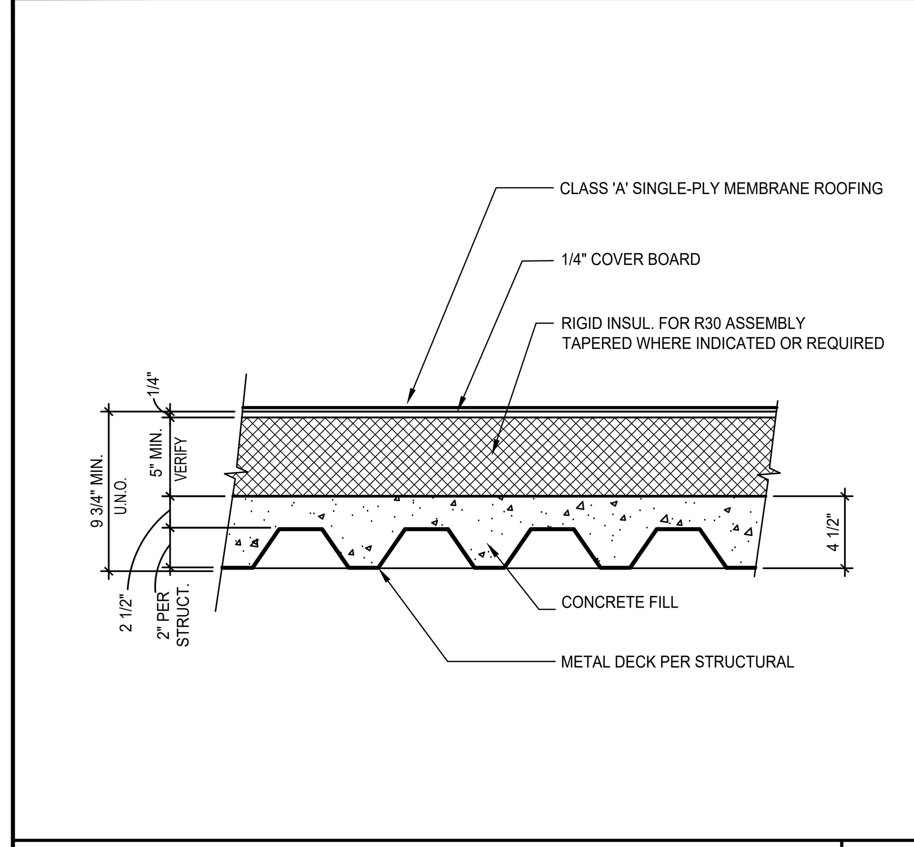
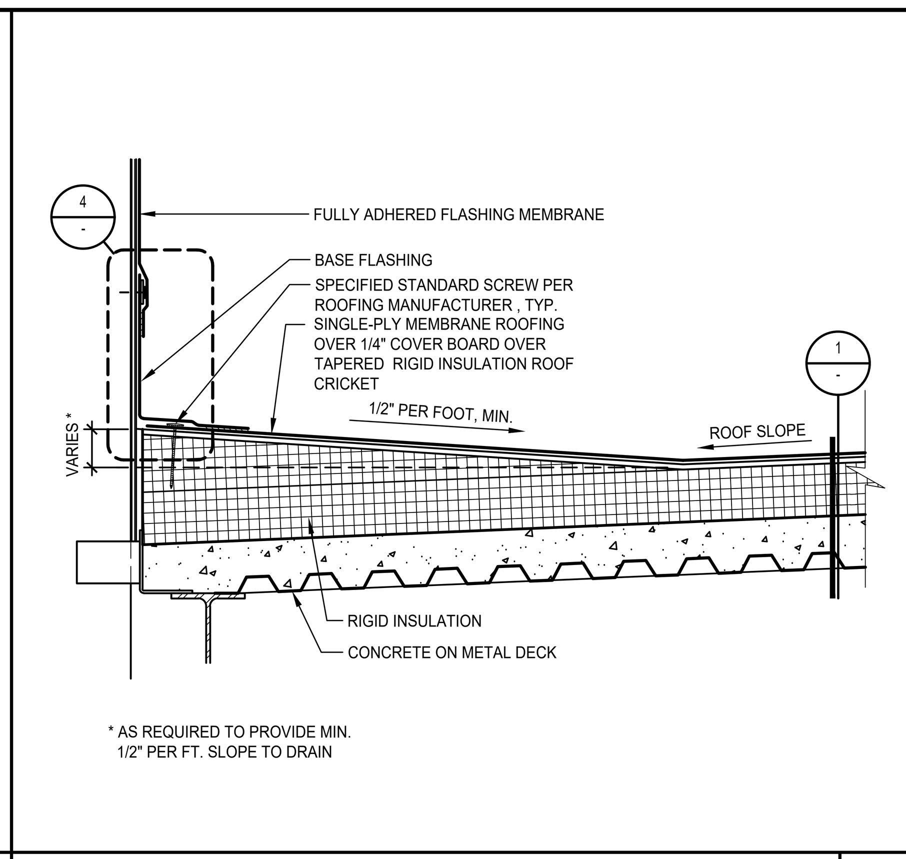
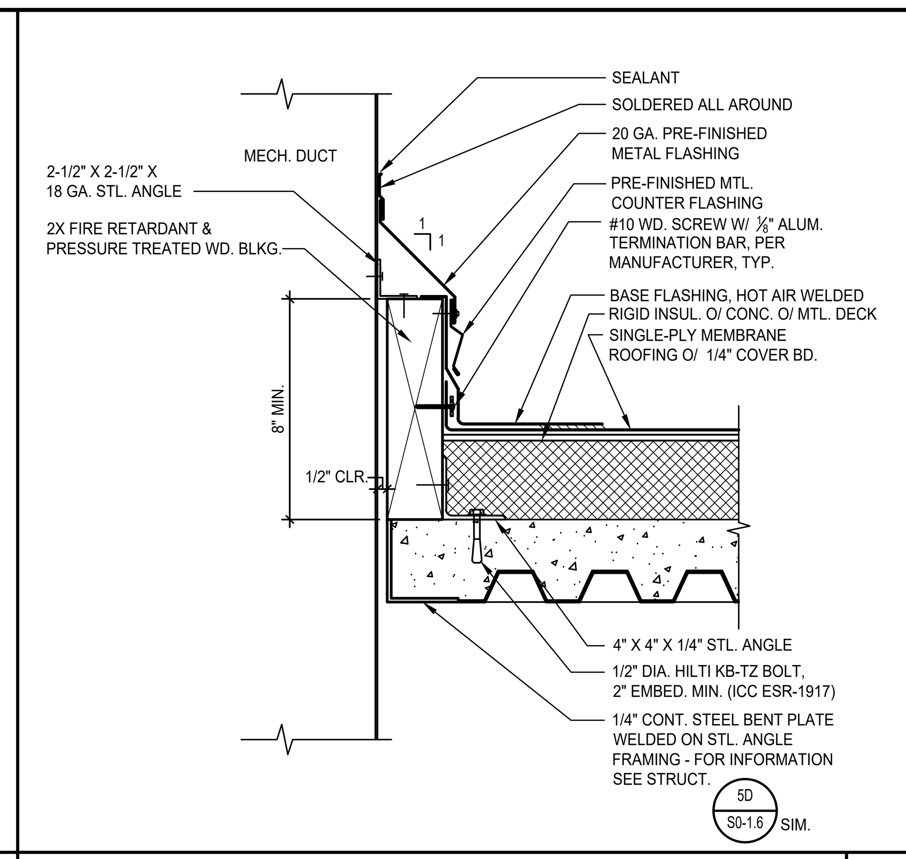


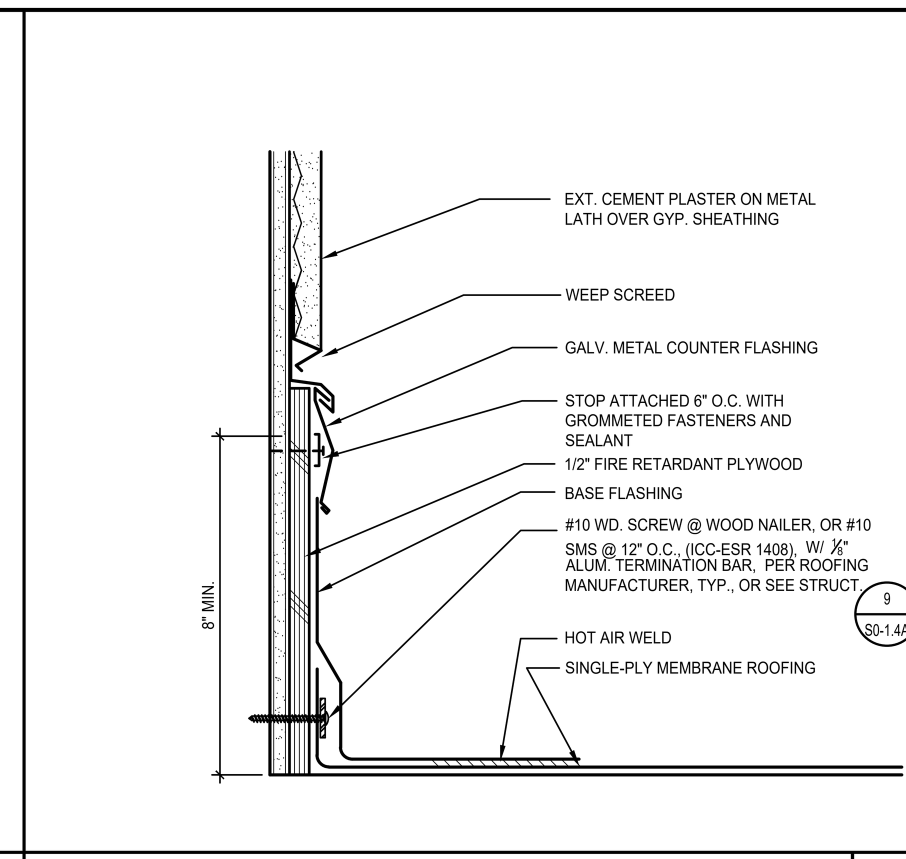
TYP. CONC. ON METAL DECK ROOF SECTION 1
SCALE: 1-1/2" = 1'-0"



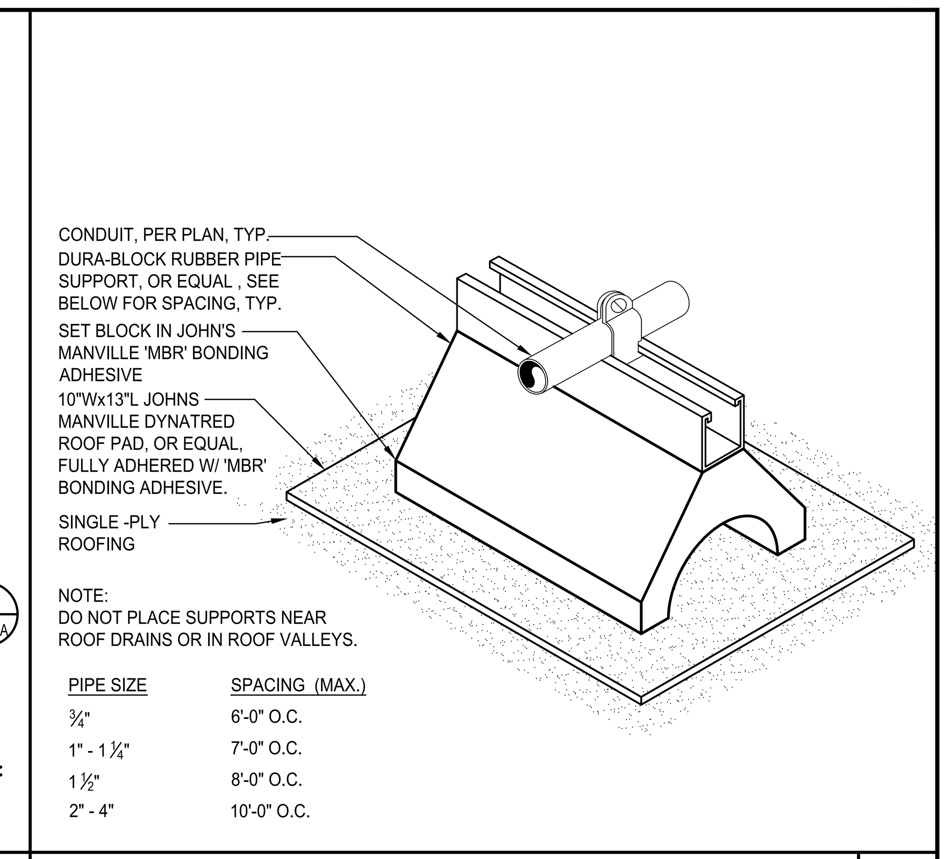
ROOF CRICKET 2
SCALE: 1" - 1'-0"



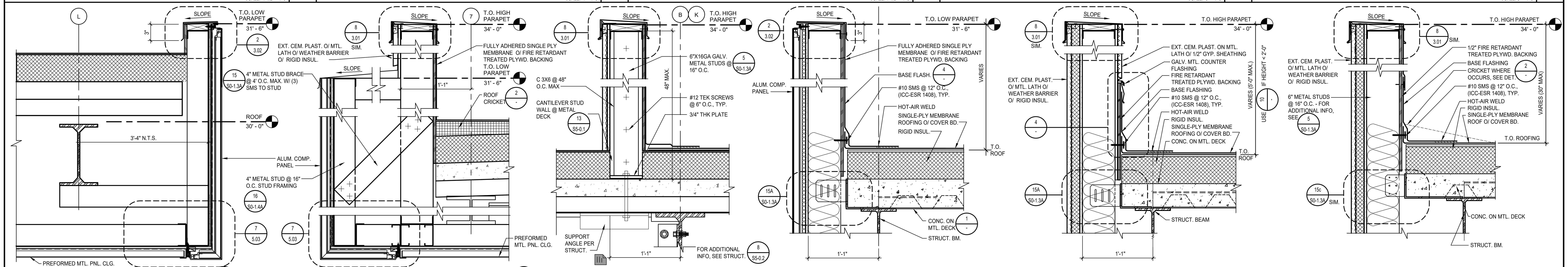
DUCT PENETRATION CURB 3
SCALE: 1-1/2" = 1'-0"



SINGLE PLY ROOFING AT WALL 4
SCALE: 3" = 1'-0"

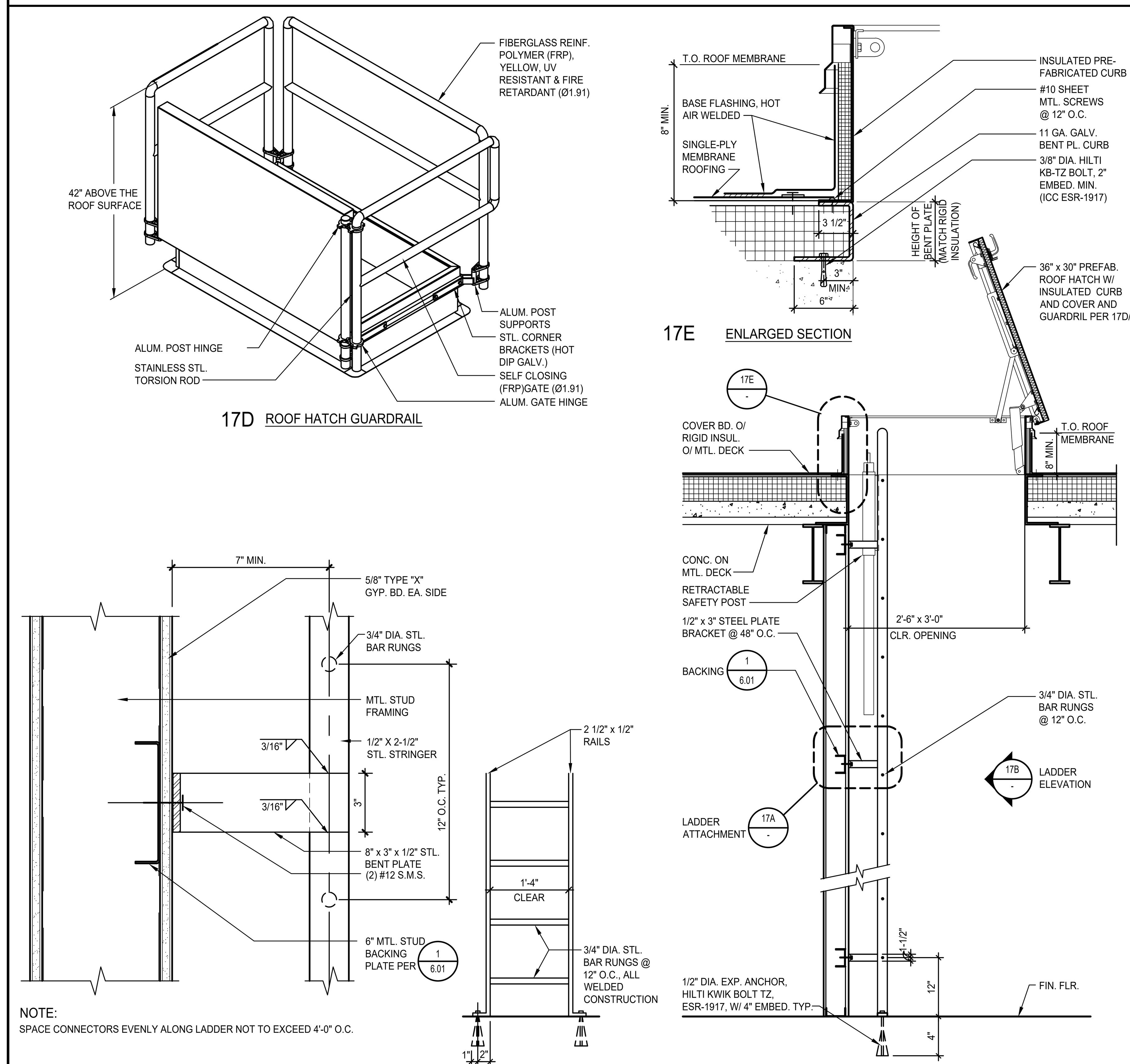


PIPE SUPPORT BLOCK 5
SCALE: 3" = 1'-0"



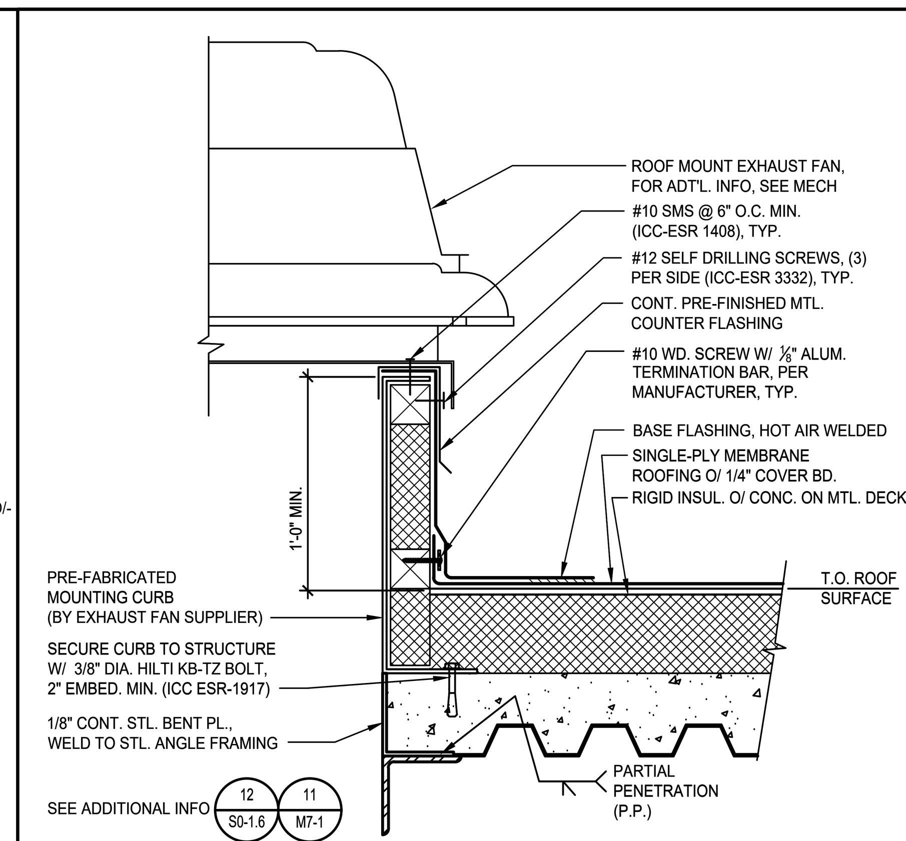
PARAPET W/ SOFFIT - 10F FOR ADDITIONAL INFO, SEE STRUCT.
PARAPET W/ SOFFIT - 10E FOR ADDITIONAL INFO, SEE STRUCT.
ROOFTOP PARAPET WALL - 10D
PARAPET - ALUM. COMPOSITE PNL. 10C
PARAPET @ PLASTER WALL 10B
PARAPET @ PLASTER WALL 10A

ROOF PARAPETS 10
SCALE: 1-1/2" = 1'-0"



17A LADDER ATTACHMENT DETAIL
17B PARTIAL LADDER ELEVATION
17C LADDER SECTION

ROOF HATCH AND LADDER 17
SCALE: 3/4" = 1'-0"



SELF-FLASHED EXHAUST CURB 13
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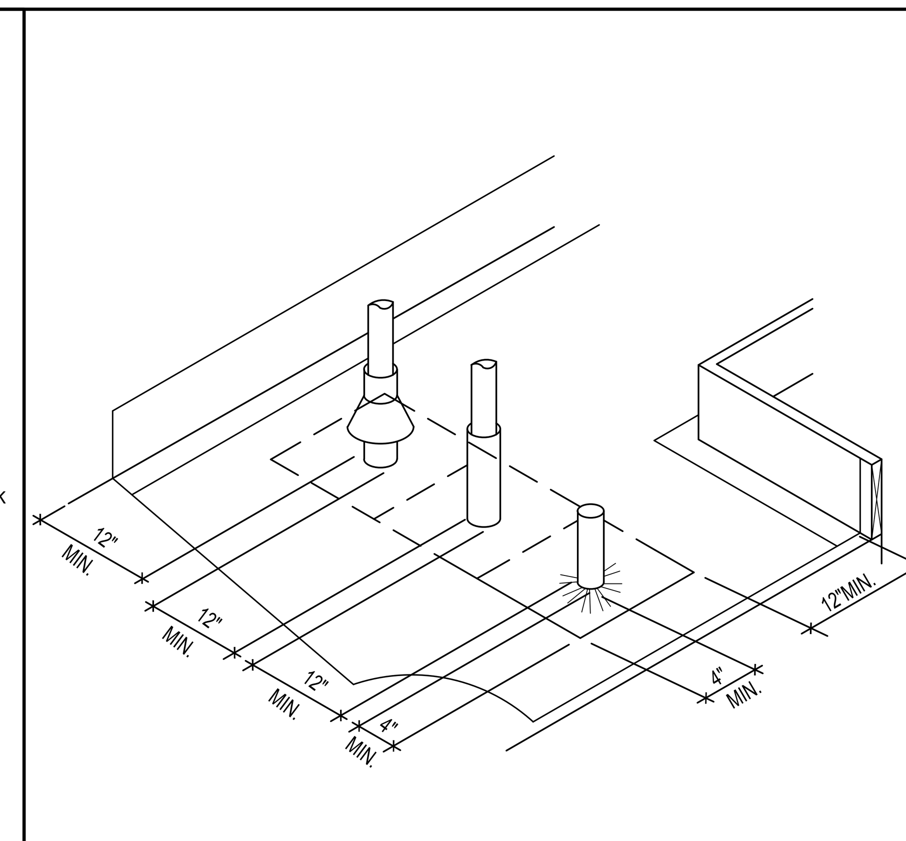

CLEARANCES FOR MULTIPLE PIPES 14
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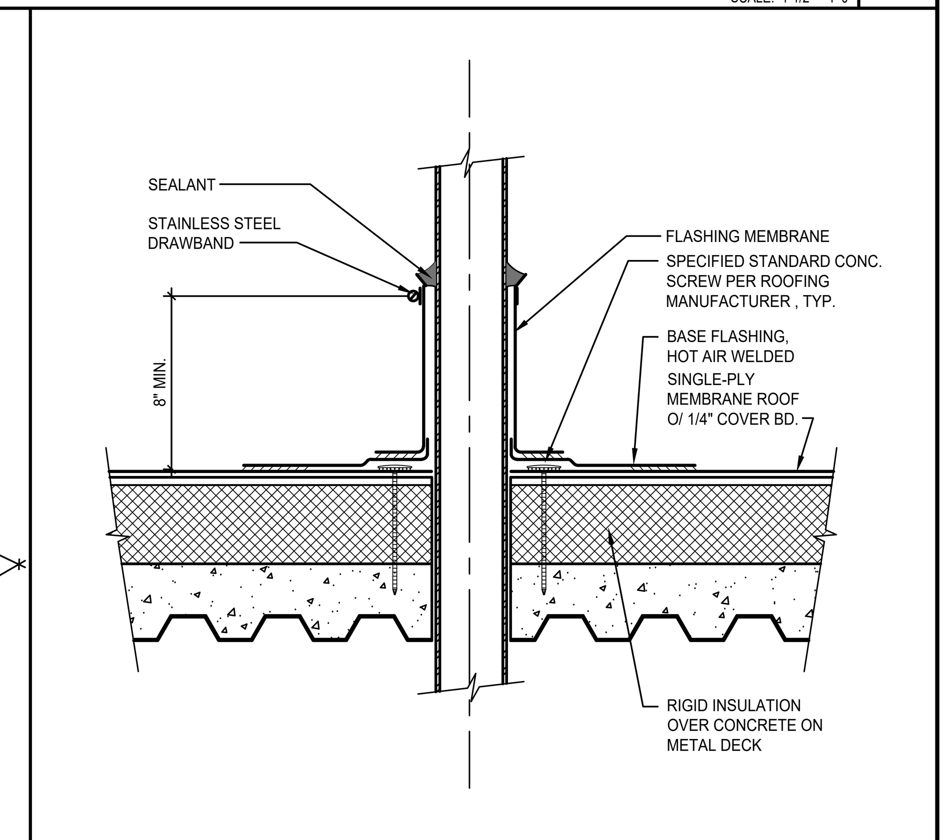

PIPE PENETRATION FLASHING 15
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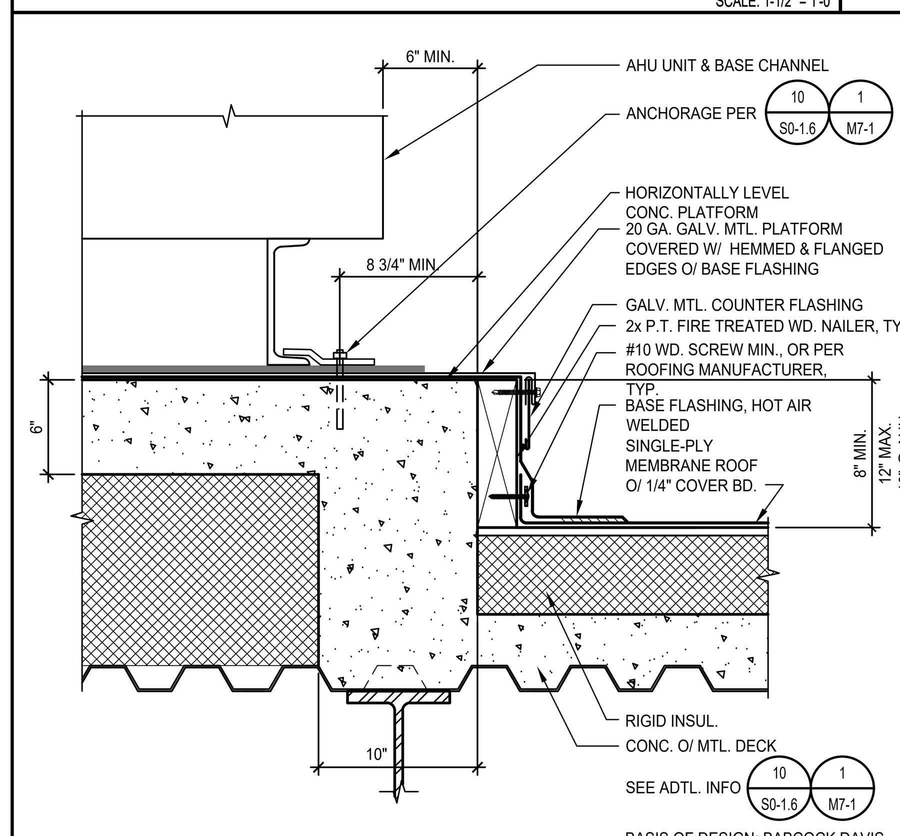

AIR HANDLING UNIT EQUIPMENT PAD 18
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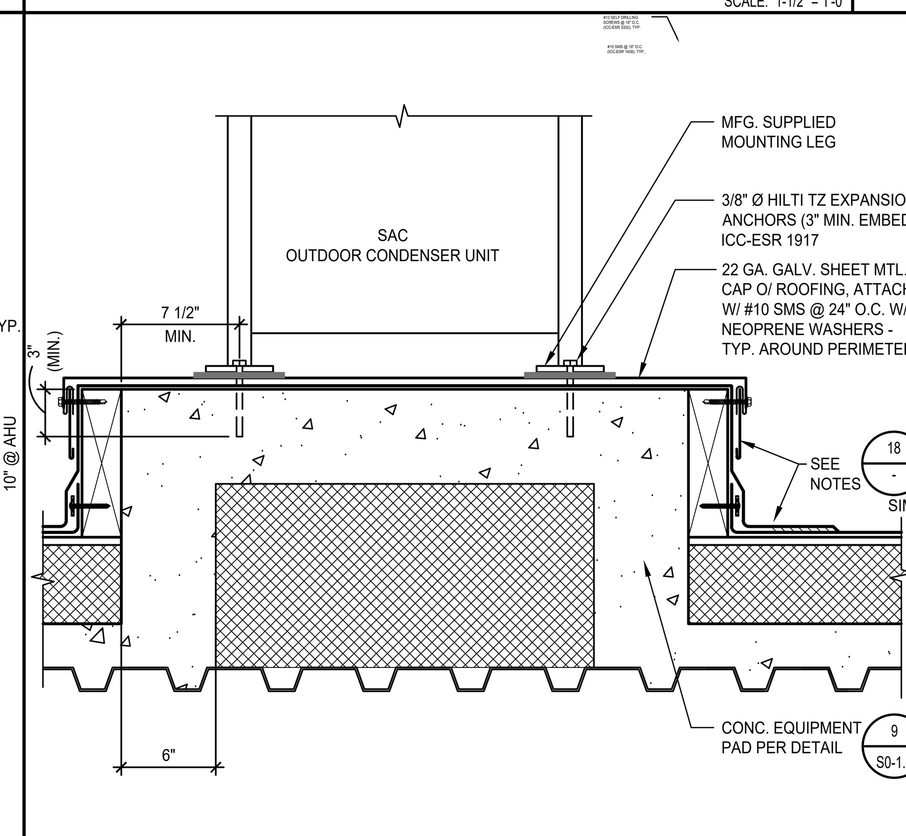

CONDENSER UNIT EQUIPMENT PAD 19
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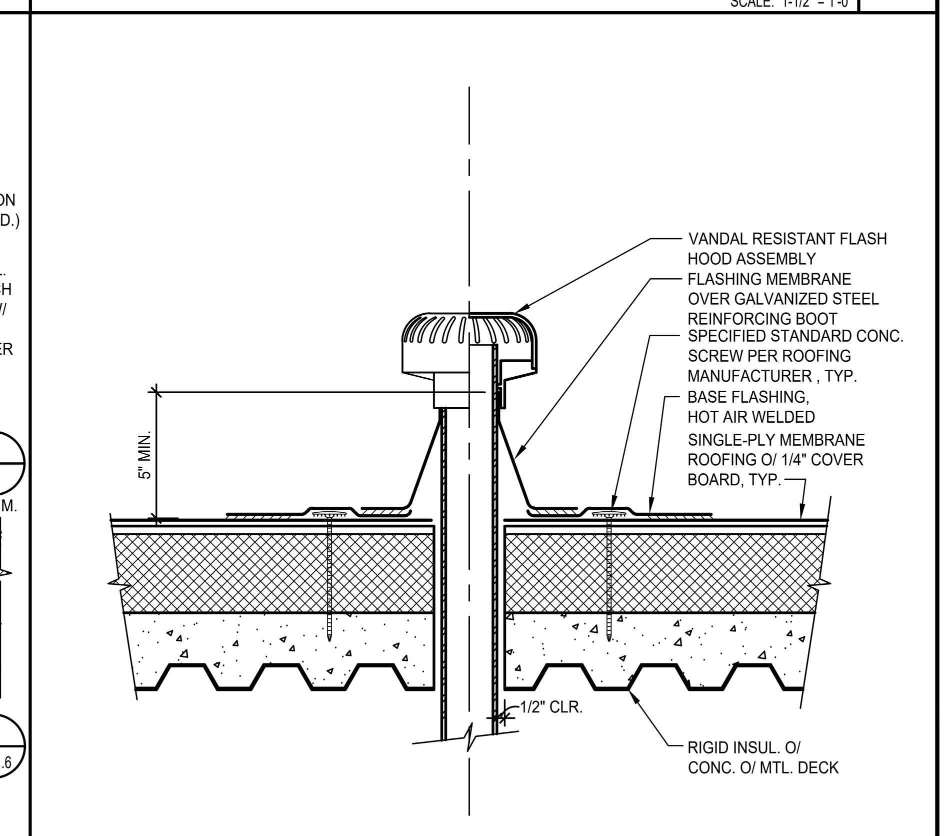

VENT PIPE W/ VANDAL RESISTANT HOOD 20
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SS ☑ FLS ☑ ACS ☑
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COMPTON COLLEGE STUDENT SERVICES BLDG.

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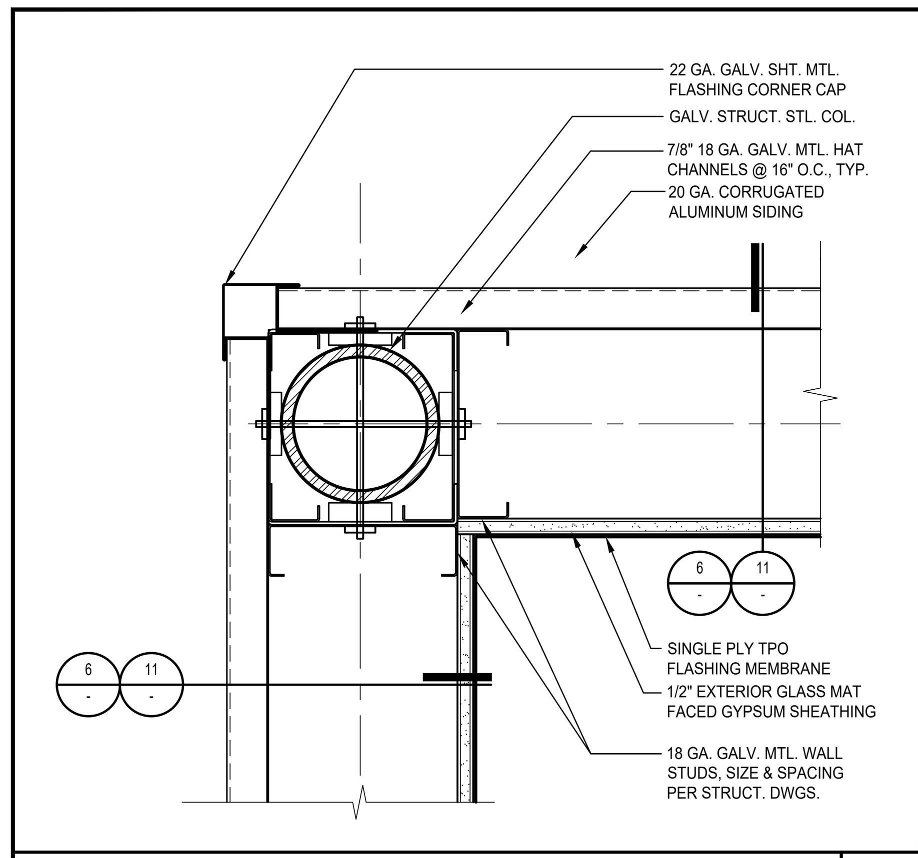
COMPTON, CA 90221

owner

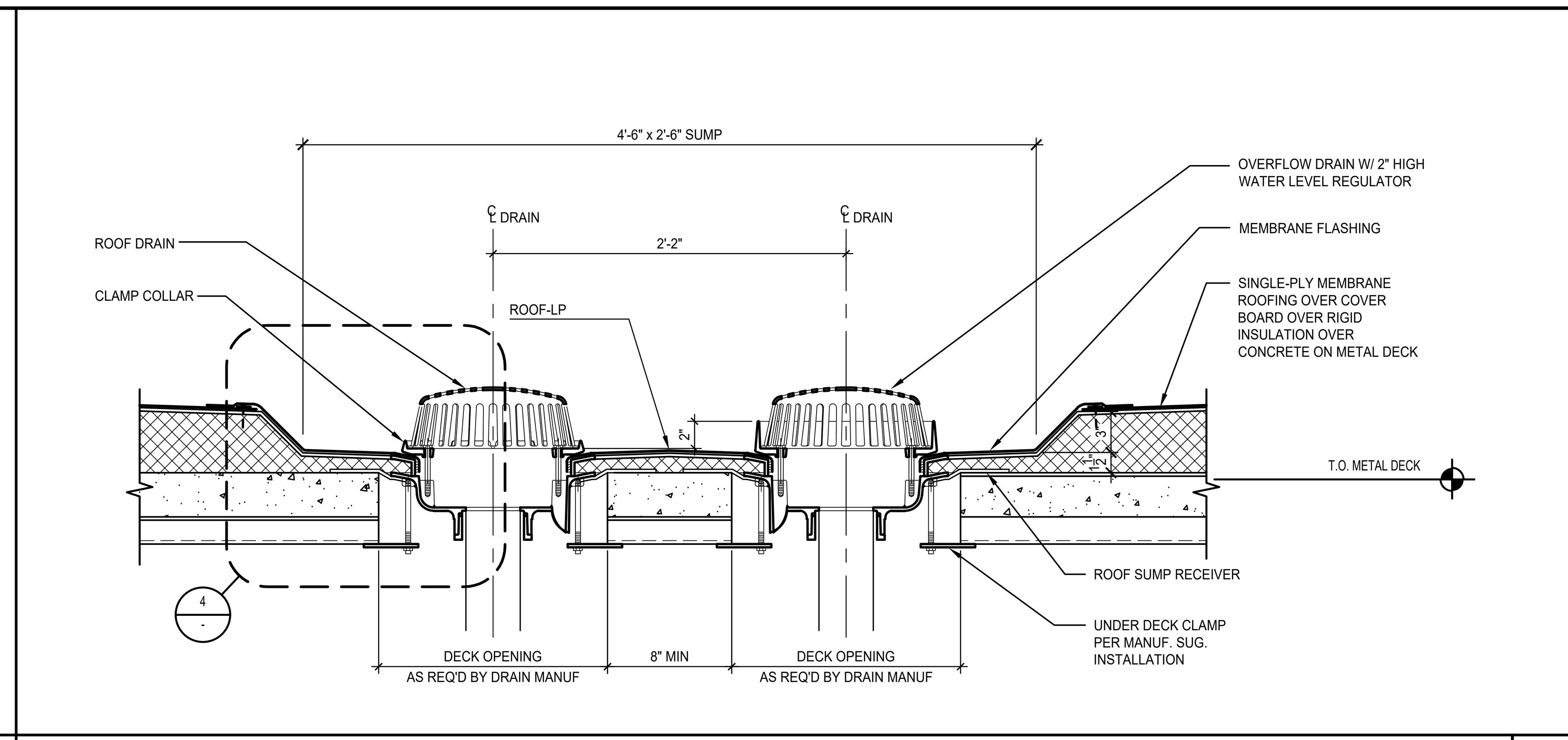
tBP project number : 20987.00
file name: DTL-0701.DWG
drawn by: tBP checked by: T. HALL
date: 9.3.2019
Rev: date: description:

drawing title:
ROOF DETAILS

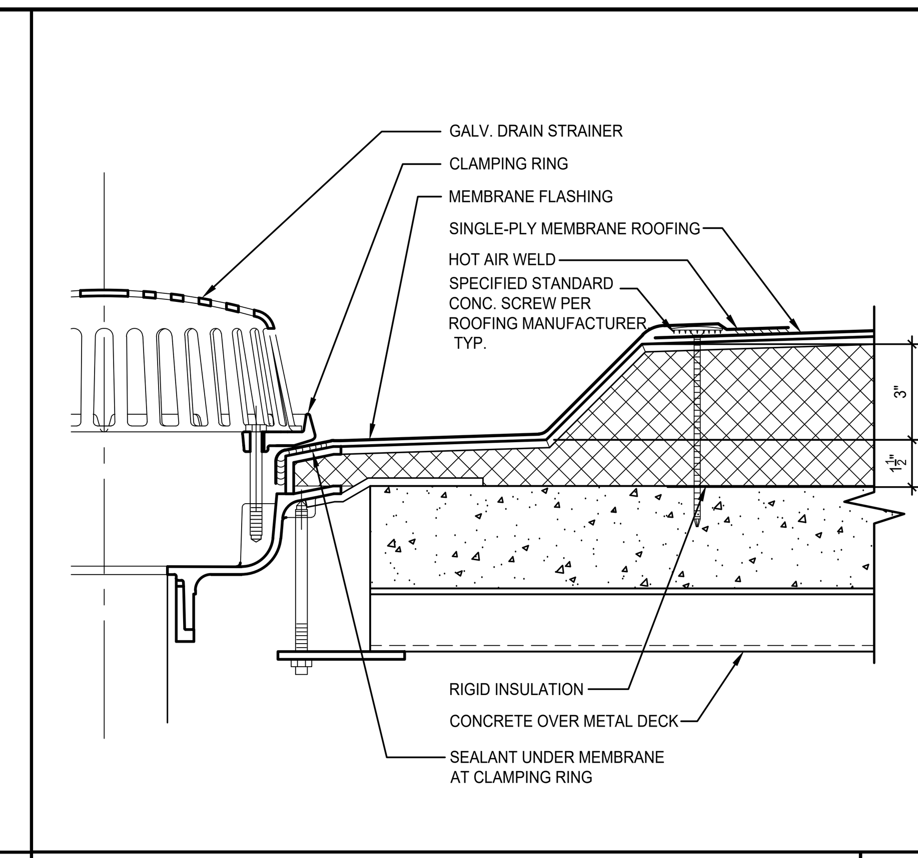
drawing no.:
7.01



MECH. SCREEN CORNER - PLAN 1
SCALE: 3" = 1'-0"



ROOF DRAIN SUMP 3
SCALE: 1-1/2" = 1'-0"



ROOF DRAIN 4
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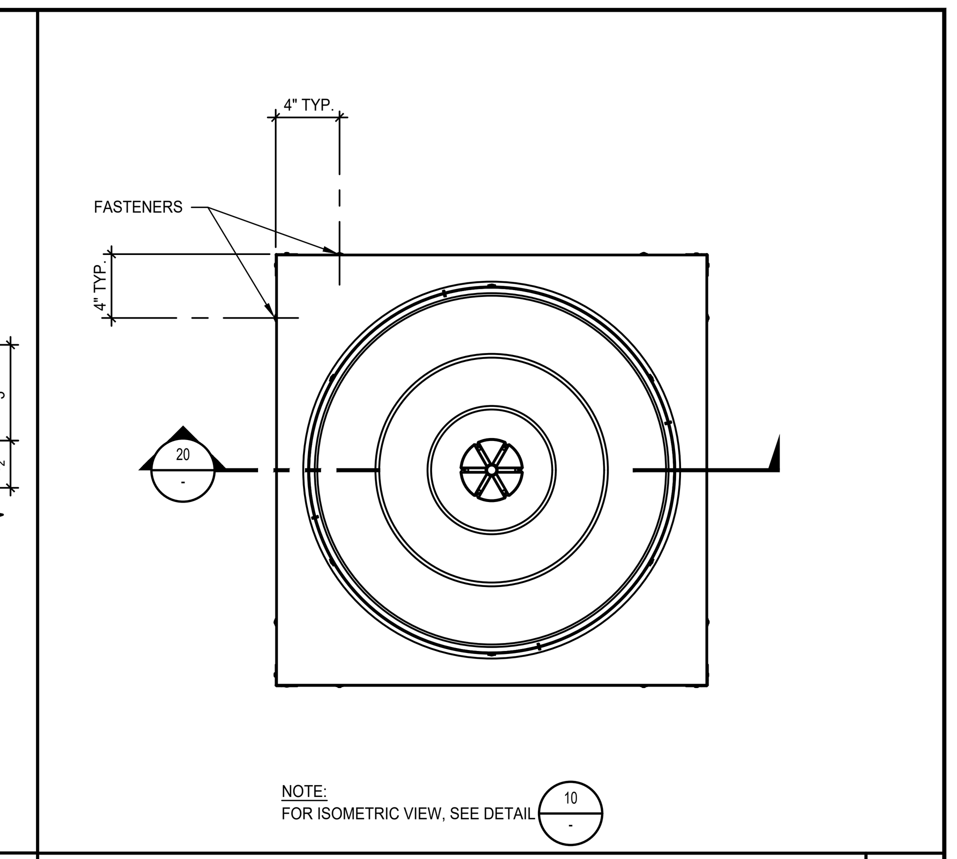
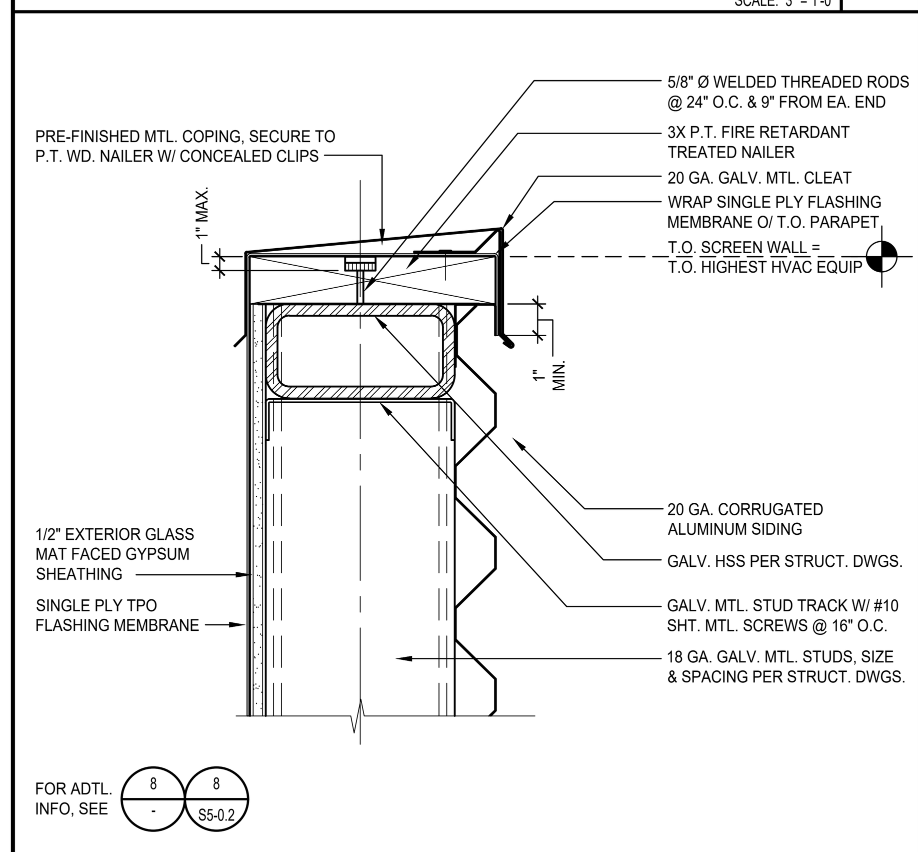
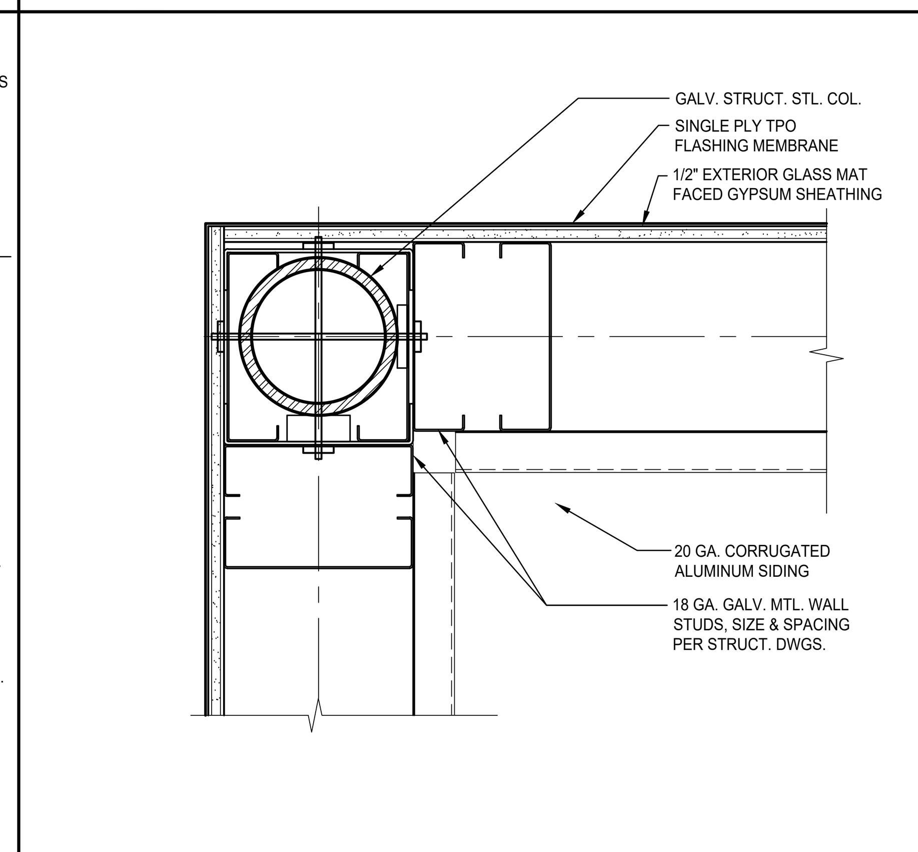


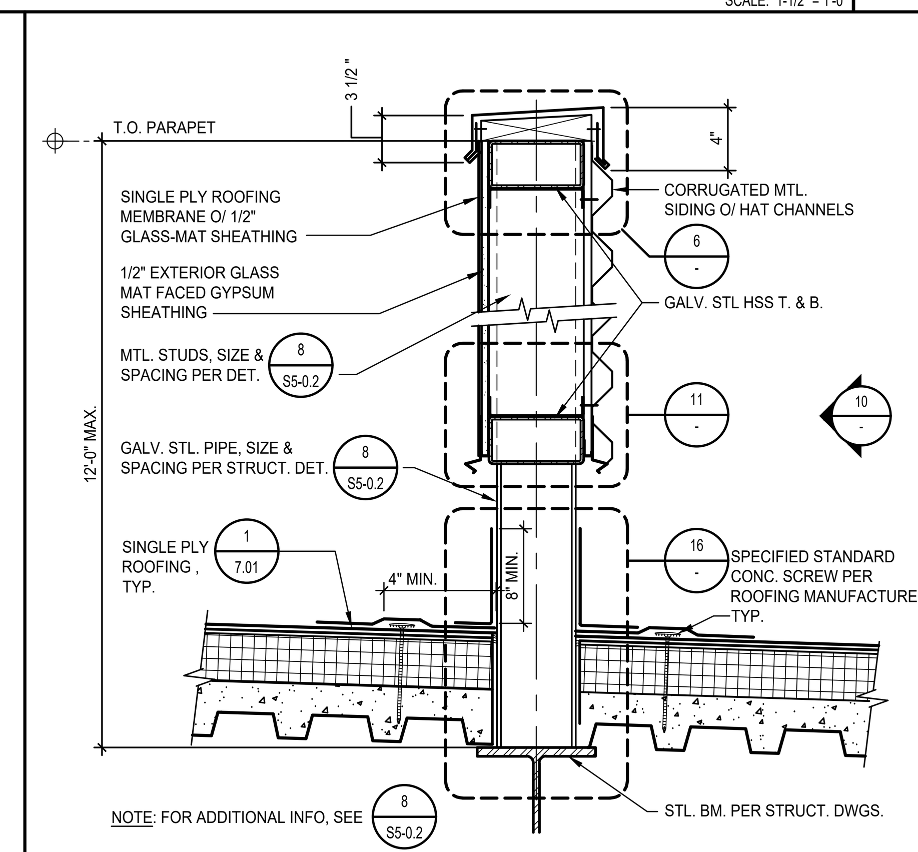
TUBULAR SKYLIGHT- PLAN 5
SCALE: 1-1/2" = 1'-0"



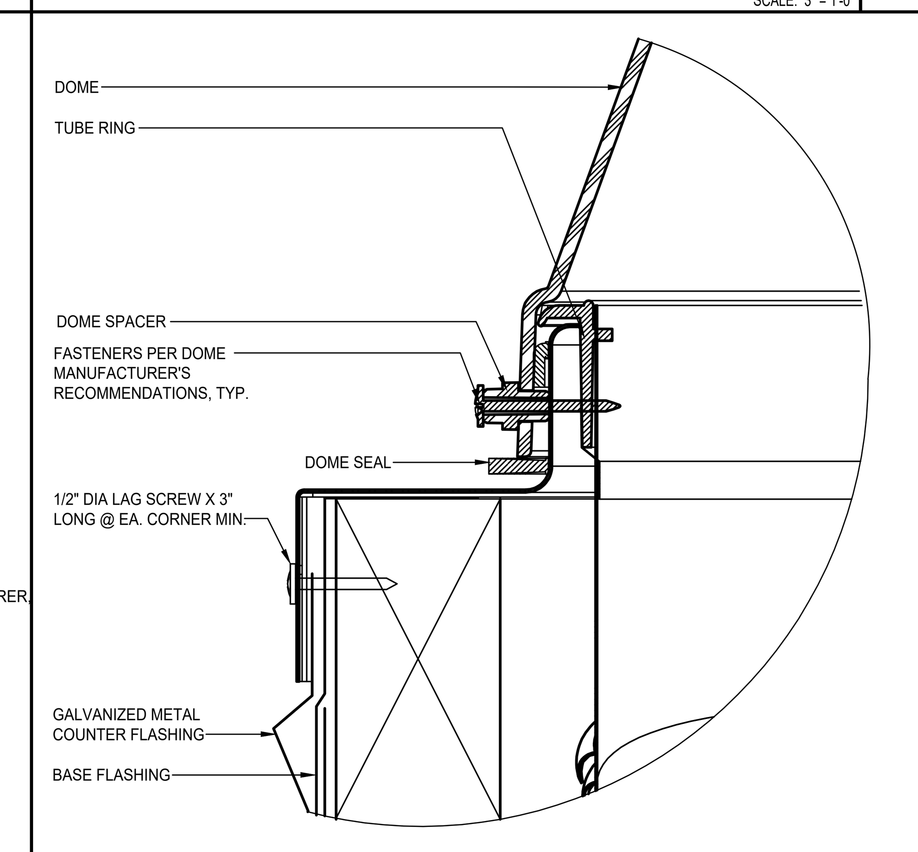
MECHANICAL SCREEN - PARAPET CAP 6
SCALE: 3"=1'-0"



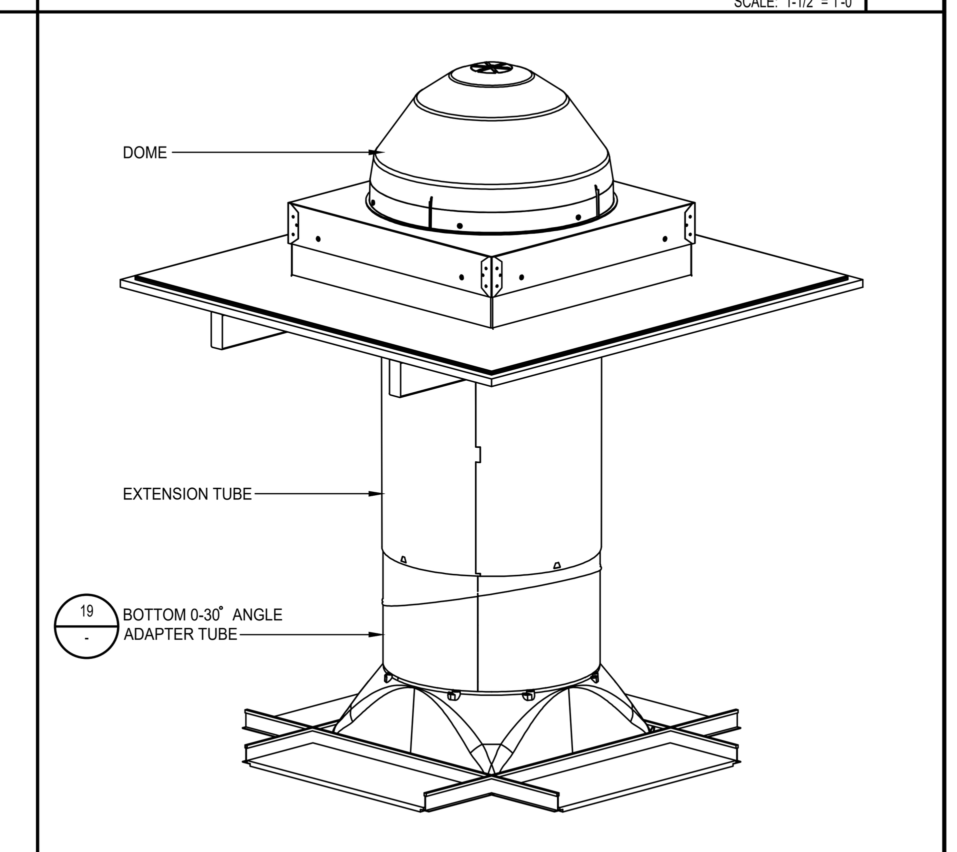
MECH. SCREEN CORNER - PLAN 7
SCALE: 3" = 1'-0"



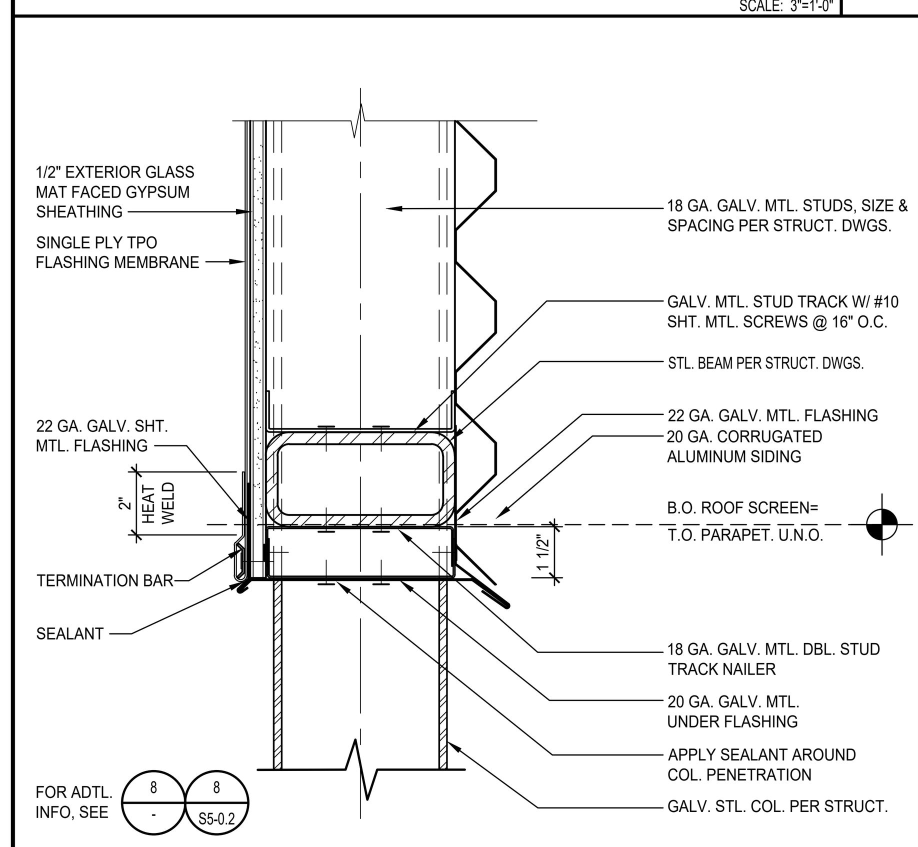
MECHANICAL SCREEN 8
SCALE: 1-1/2" = 1'-0"



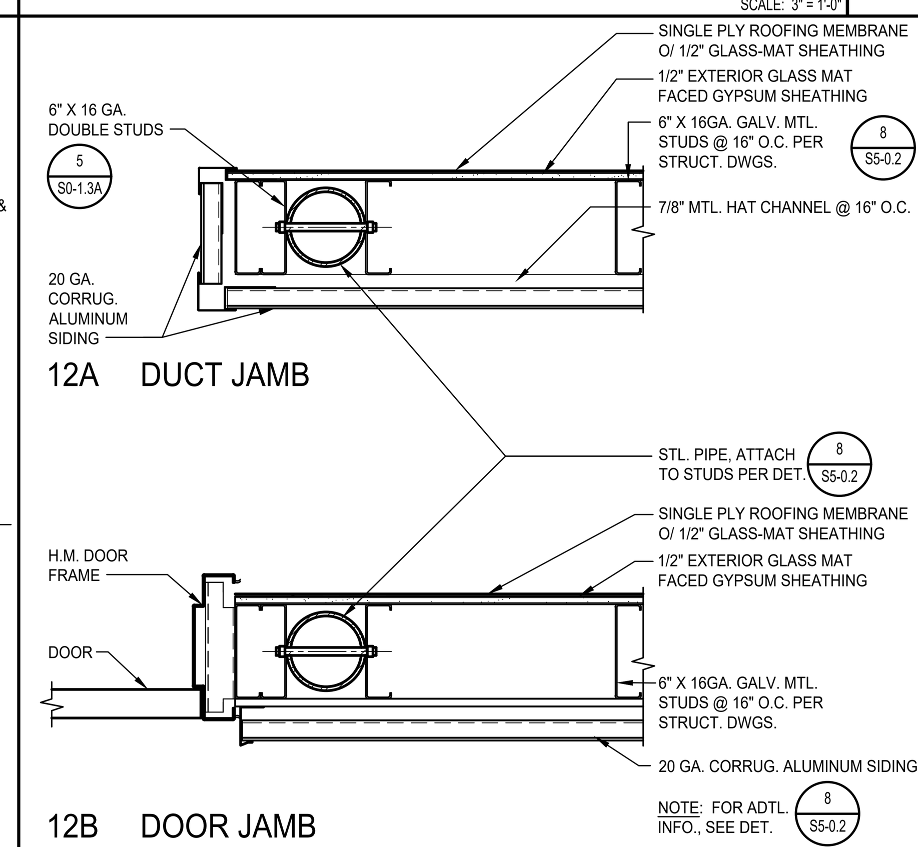
TUBULAR SKYLIGHT - ROOF CURB SECTION 9
SCALE: NOT TO SCALE



TUBULAR SKYLIGHT 10
SCALE: NOT TO SCALE



MECHANICAL SCREEN - WALL BASE 11
SCALE: 3"=1'-0"



MECHANICAL SCREEN - JAMB 12
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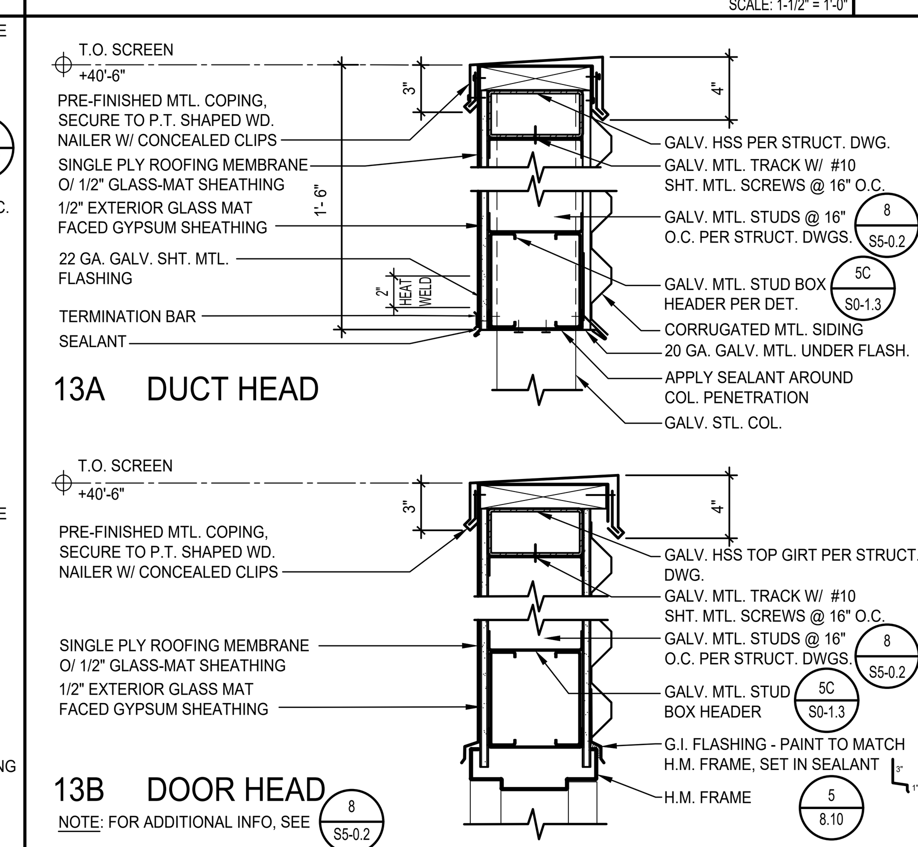
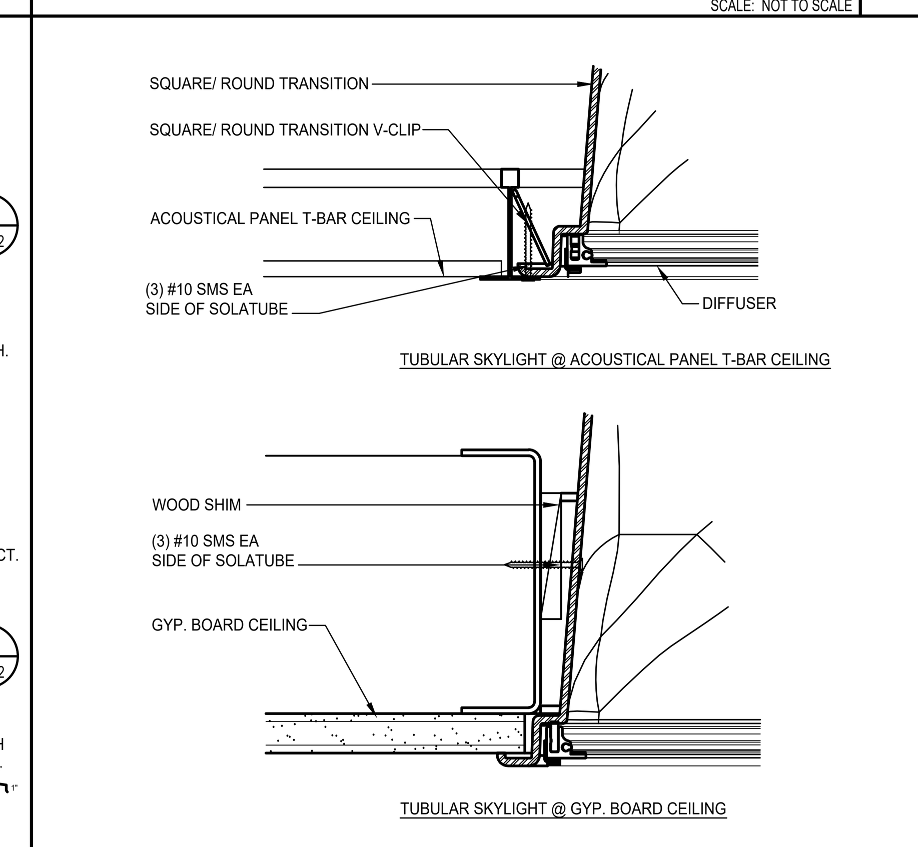
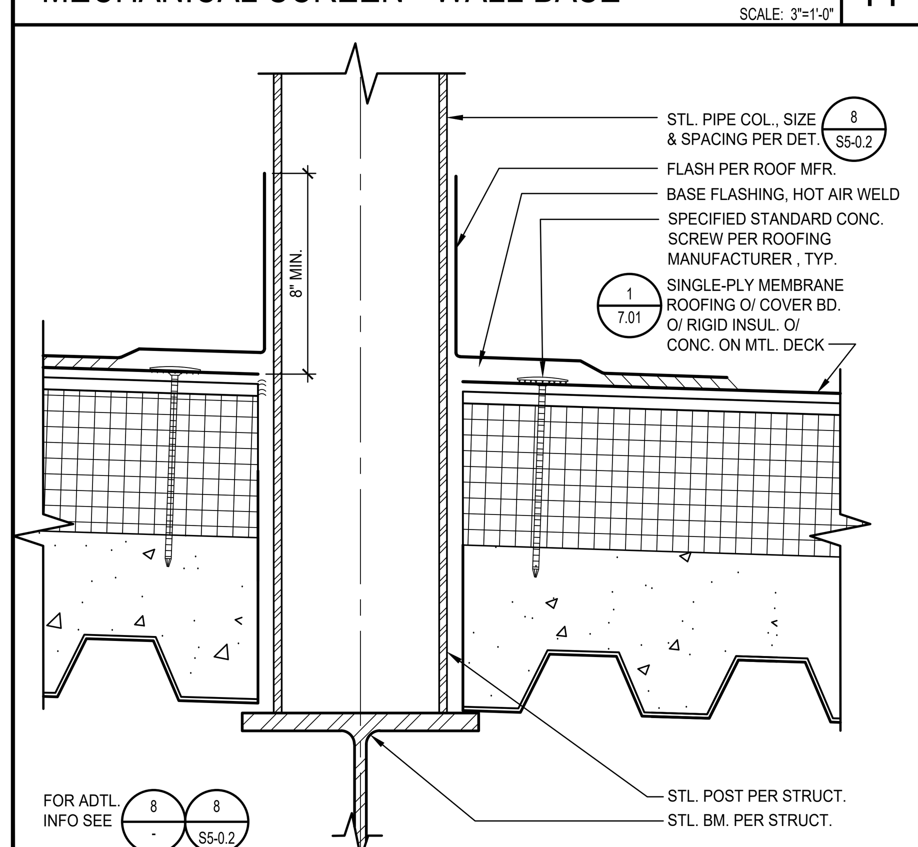


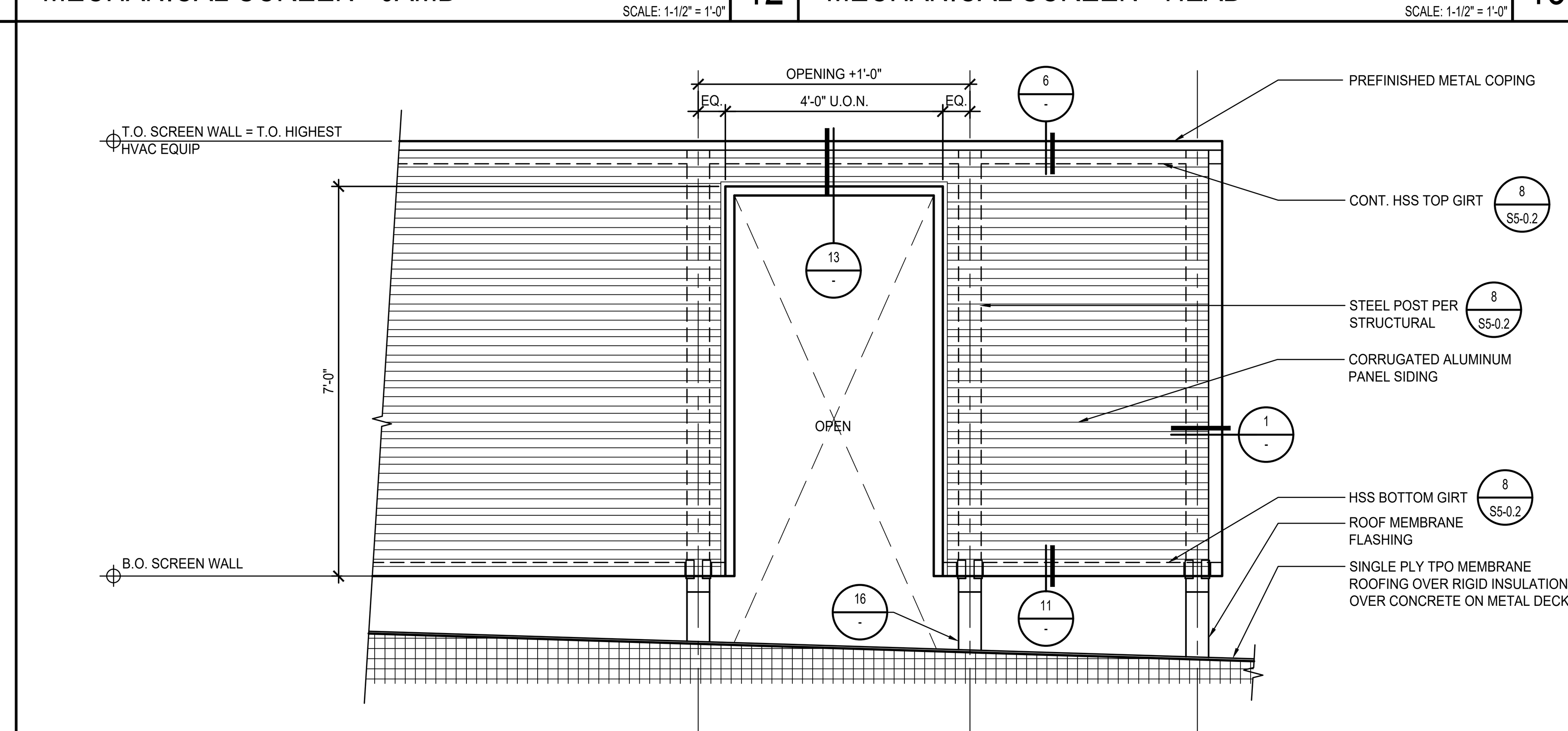
MECHANICAL SCREEN - HEAD 13
SCALE: 1-1/2" = 1'-0"



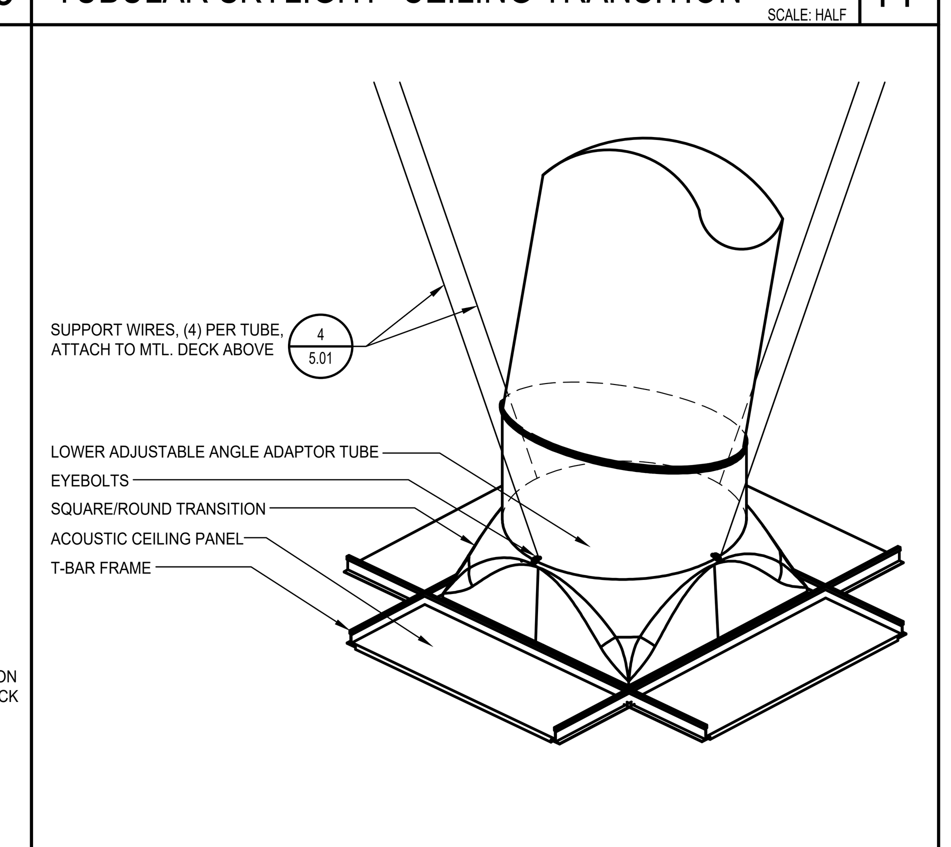
TUBULAR SKYLIGHT- CEILING TRANSITION 14
SCALE: HALF



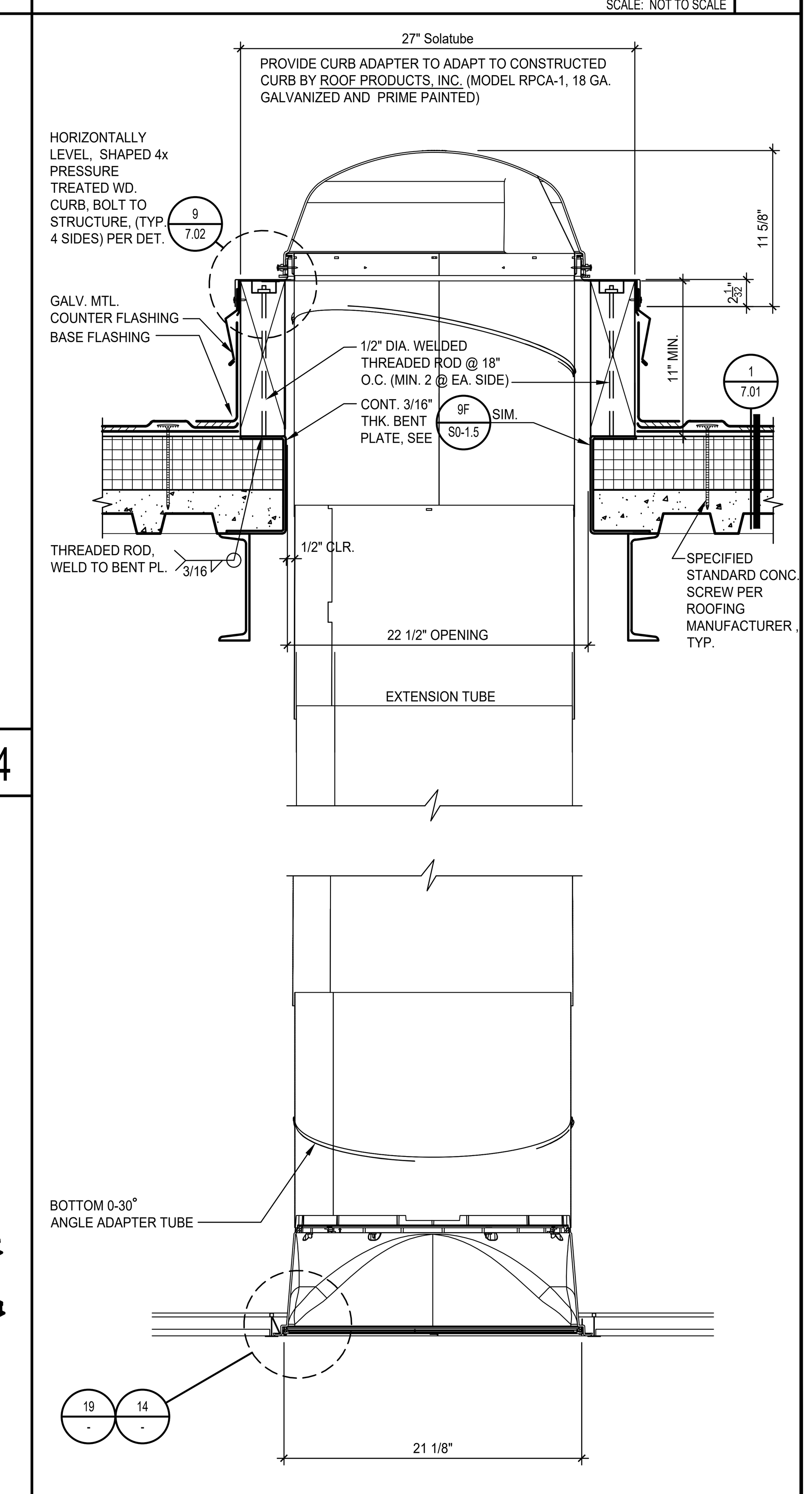
MECHANICAL SCREEN - PIPE PENETRATION 16
SCALE: 1-1/2" = 1'-0"



MECHANICAL SCREEN OPENING 18
SCALE: 1/2" = 1'-0"



TUBULAR SKYLIGHT 19
SCALE: 1-1/2" = 1'-0"



TUBULAR SKYLIGHT- SECTION 20
SCALE: 1-1/2" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-119686 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/14/2019

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tBP project number : 20987.00
file name: DTL-0702.DWG
drawn by: tBP checked by: T. HALL
date: 9.3.2019

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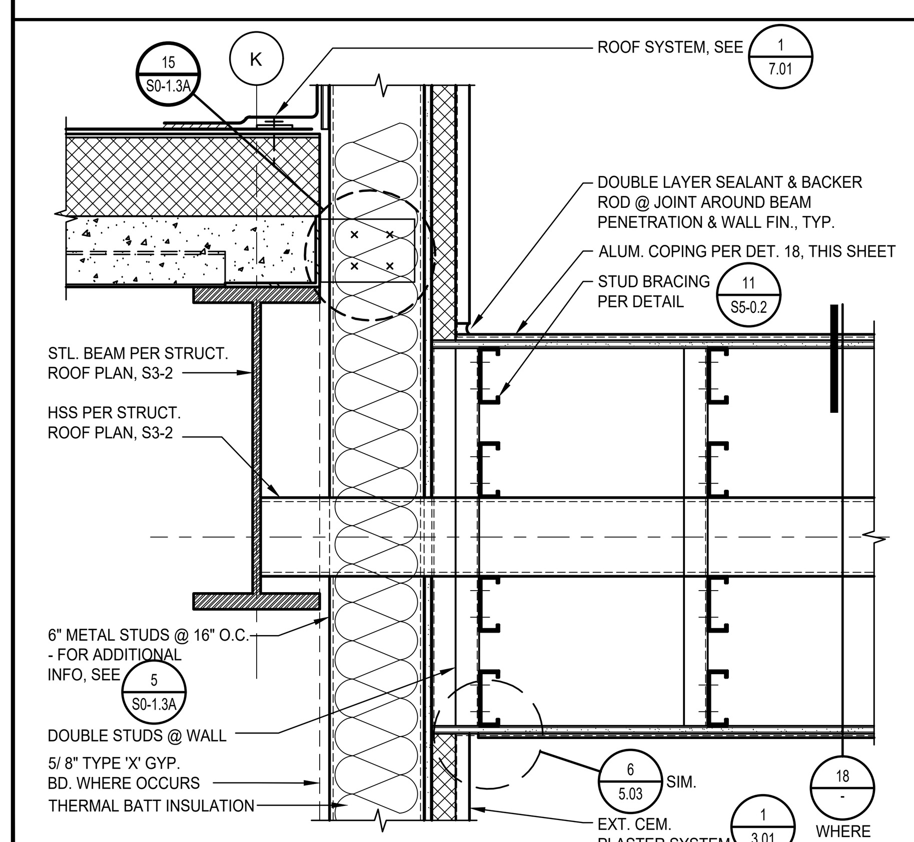
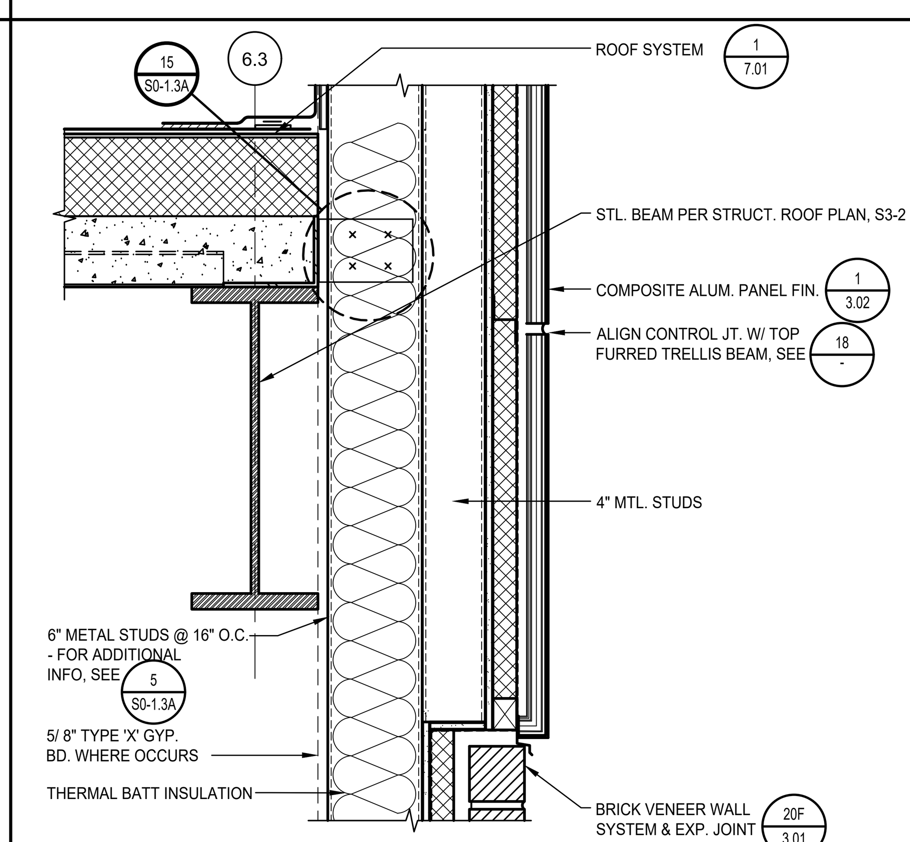
drawing title:
ROOF DETAILS

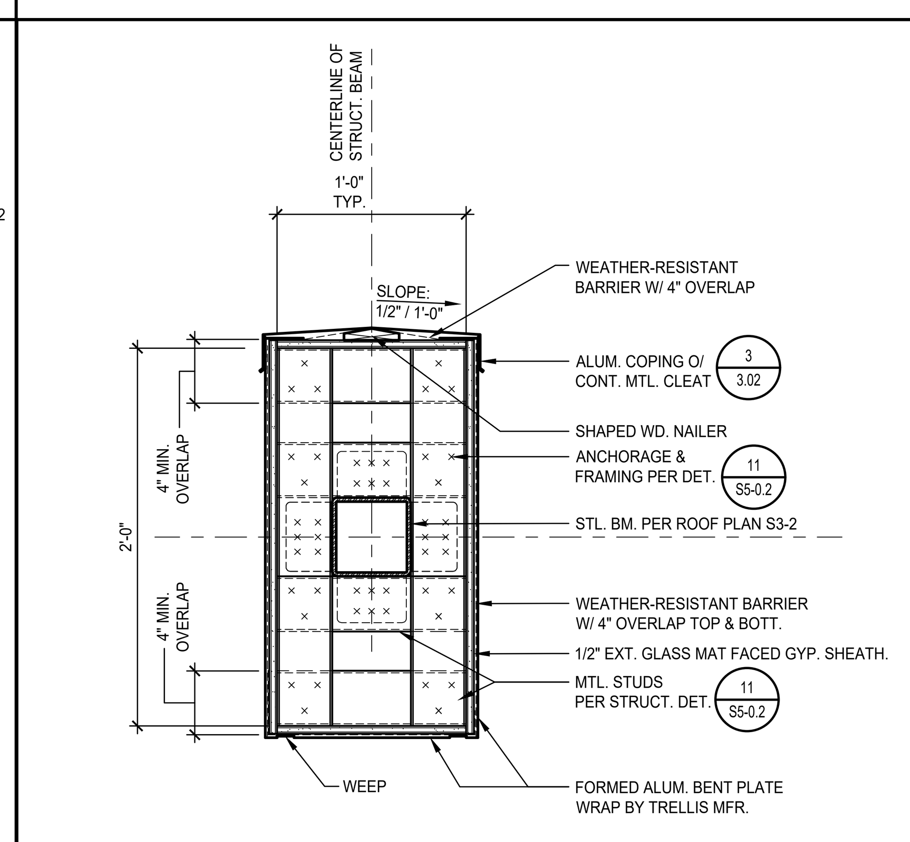
drawing no.:
7.02



TRELLIS BEAM SECTION 16
SCALE: 1-1/2" = 1'-0"



TRELLIS BEAM SECTION 17
SCALE: 1-1/2" = 1'-0"



TRELLIS BEAM SECTION 18
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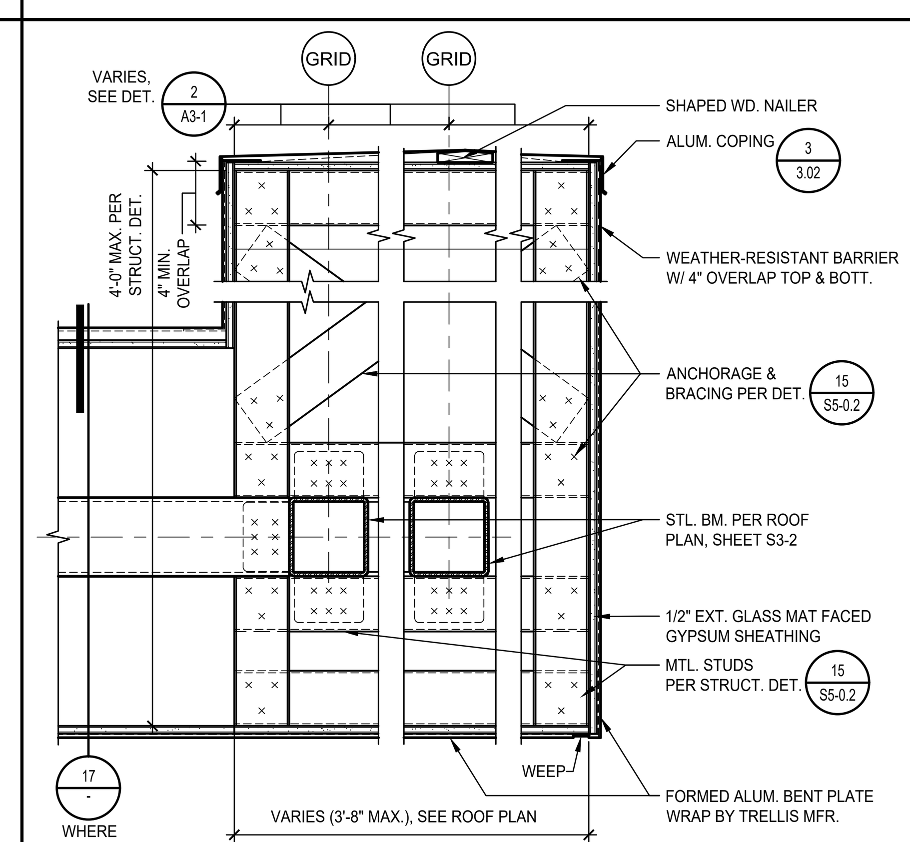
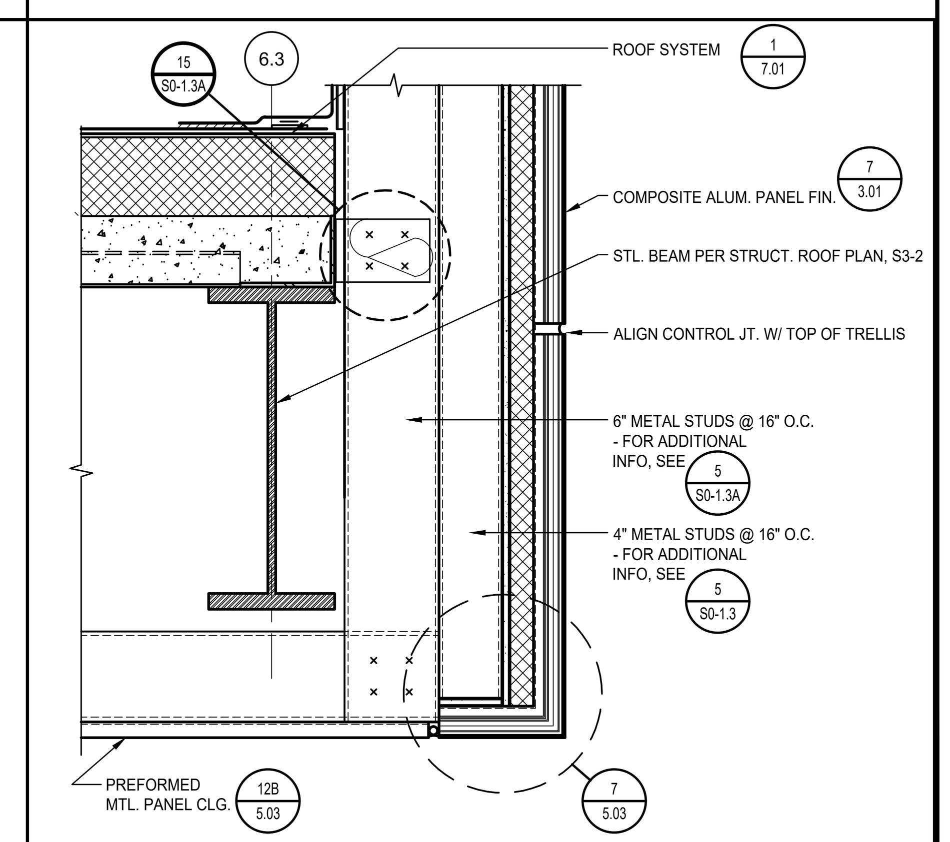


TRELLIS PERIMETER BOX BEAM 19
SCALE: 1-1/2" = 1'-0"



TRELLIS BEAM SECTION 20
SCALE: 1-1/2" = 1'-0"

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file name: DTL-0703.DWG
drawn by: tBP checked by: T. HALL
date: 9.3.2019

Rev:	date:	description:

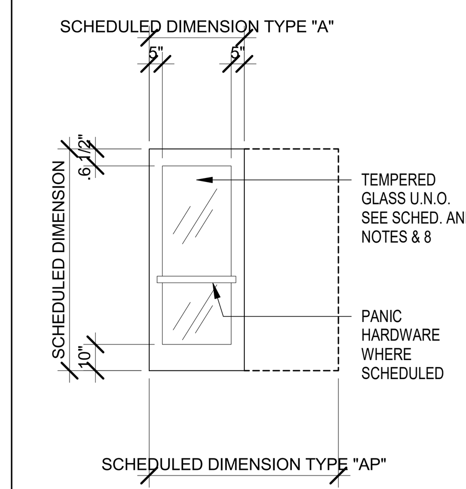
drawing title:
ROOF DETAILS

drawing no.:
7.03

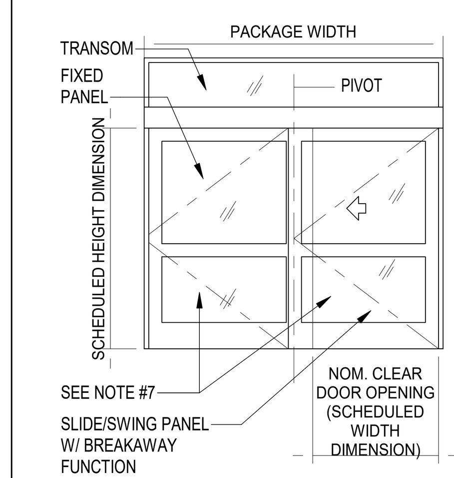
DOOR SCHEDULE

DOOR NO.	WIDTH	HEIGHT	TYPE	DOOR MATERIAL	DOOR FINISH	DOOR COLOR	FRAME MATERIAL	FRAME FINISH	DETAILS HEAD	DETAILS TRANSOM	DETAILS JAMB	DETAILS TRESHOLD	ASSEMBLY FIRE RATING	REMARKS	SIGNAGE TEXT	SIGNAGE DETAIL
Exterior																
001	8' - 0"	7' - 6"		ALUM / GL	F		ALUM / GL	F								
002	3' - 0"	7' - 0"	D	HM	PSG		HM	PSG	3/8.10		8/8.10	19/8.10		CARD READER, PANIC HARDWARE	TRIO / EXIT	9 & 11/11.01
003	3' - 0"	7' - 0"	A	ALUM / GL	F		ALUM / GL	F								
004	3' - 0"	7' - 0"	D	HM	PSG		HM	PSG	3/8.10		8/8.10	19/8.10		CARD READER, PANIC HARDWARE	WELCOME CENTER, EXIT	9 & 11/11.01
005	3' - 0"	7' - 0"	D	HM	PSG		HM	PSG	3/8.10		8/8.10	19/8.10		CARD READER, PANIC HARDWARE	SRC, EXIT	9 & 11/11.01
006	8' - 0"	7' - 8"		ALUM / GL	F		ALUM / GL	F						CARD READER, EMERGENCY BREAKOUT DOOR AND SIDELIGHT		
007	3' - 0"	7' - 0"	D	HM	PSG		HM	PSG	3/8.10		8/8.10	19/8.10		CARD READER, PANIC HARDWARE	BURSAR / EXIT	9 & 11/11.01
008	3' - 0"	7' - 0"	D	HM	PSG		HM	PSG	3/8.10		8/8.10	19/8.10		CARD READER, PANIC HARDWARE	FINANCIAL AID, EXIT	9 & 11/11.01
009	3' - 0"	7' - 0"	D	HM	PSG		HM	PSG	3/8.10		8/8.10	19/8.10		CARD READER, PANIC HARDWARE	MDF ROOM	11/11.01
010	3' - 0"	7' - 0"	D	HM	PSG		HM	PSG	3/8.10		8/8.10	19/8.10		CARD READER	ELECTRICAL ROOM	11/11.01
011	3' - 0"	7' - 0"	D	HM	PSG		HM	PSG	3/8.10		8/8.10	19/8.10		CARD READER	RESTROOMS / EXIT	9 & 11/11.01
012	3' - 0"	7' - 0"	D	HM	PSG		HM	PSG	3/8.10		8/8.10	19/8.10		CARD READER	FIRE RISER	11/11.01
013	3' - 0"	7' - 0"	D	HM	PSG		HM	PSG	3/8.10		8/8.10	19/8.10		CARD READER, PANIC HARDWARE	TESTING CENTER / EXIT	9 & 11/11.01
164	3' - 0"	7' - 0"														
165	3' - 0"	7' - 0"														
166	3' - 0"	7' - 0"														
167	3' - 0"	7' - 0"														
Interior																
100	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10			CARD READER, HOLD OPEN	EXIT ROUTE	8/11.01
102	3' - 0"	7' - 0"	D	SCN	F	WD-1	HM	PSG	10/8.10		10/8.10				JANITOR	11/11.01
103	3' - 0"	7' - 0"	D	SCN	F	WD-1	HM	PSG	10/8.10		9/8.10	18/8.10			MEN'S RESTROOM	2 & 4/11.01
104	3' - 0"	7' - 0"	D	SCN	F	WD-1	HM	PSG	10/8.10		9/8.10	18/8.10			WOMEN'S RESTROOM	1 & 3/11.01
105	3' - 0"	7' - 0"	D	SCN	F	WD-1	HM	PSG	10/8.10		9/8.10	18/8.10			GENDER NEUTRAL RESTROOM	6 & 7/11.01
109	3' - 0"	7' - 0"	D	SCN	F	WD-1	HM	PSG	10/8.10		9/8.10	18/8.10		CARD READER	WOMEN'S RESTROOM	1 & 3/11.01
110	3' - 0"	7' - 0"	D	SCN	F	WD-1	HM	PSG	10/8.10		9/8.10	18/8.10		CARD READER	MEN'S RESTROOM	2 & 4/11.01
111	3' - 0"	7' - 0"	D	SCN	F	WD-1	HM	PSG	10/8.10		10/8.10				ELEVATOR MACHINE ROOM	11/11.01
113	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10			CARD READER	CONFERENCE / EXIT ROUTE	8 & 11/11.01
116	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10			CARD READER	INNOVATION CENTER/ EXIT ROUTE	8 & 11/11.01
122	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10			CARD READER	TESTING CENTER / EXIT ROUTE	8 & 11/11.01
130	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10			CARD READER	TRIO / EXIT ROUTE	8 & 11/11.01
131	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				STUDY / EXIT ROUTE	8 & 11/11.01
132	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				STUDY / EXIT ROUTE	8 & 11/11.01
133	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
134	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
135	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	10/8.10		10/8.10				STORAGE	11/11.01
136	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	10/8.10		10/8.10				STORAGE	11/11.01
140A	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10			CARD READER	WELCOME CENTER / EXIT ROUTE	8 & 11/11.01
140B	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10			CARD READER	WELCOME CENTER / EXIT ROUTE	8 & 11/11.01
141A	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	10/8.10		10/8.10			CARD READER	STORAGE	11/11.01
141B	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	10/8.10		10/8.10				STORAGE	11/11.01
144	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
145	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
146	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
150	8' - 1"	7' - 0"		ALUM / GL	F		ALUM / GL	F						EMERGENCY BREAKOUT DOOR AND SIDELIGHT		
151	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				TUTOR / EXIT ROUTE	8 & 11/11.01
152	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	10/8.10		10/8.10				STORAGE	11/11.01
153	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	10/8.10		10/8.10				STORAGE	11/11.01
154	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
155	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
156	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
157	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
158	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
159	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	10/8.10		10/8.10				STORAGE	11/11.01
160	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				TESTING / EXIT	9 & 11/11.01
161	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10			CARD READER	BURSAR / EXIT ROUTE	8 & 11/11.01
162	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10			CARD READER	COUNTING	11/11.01
170	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10			CARD READER	FINANCIAL AID / EXIT ROUTE	8 & 11/11.01
171	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
172	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	10/8.10		10/8.10				FILE / SCAN	11/11.01
173	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	10/8.10		10/8.10				STORAGE	11/11.01
174	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
175	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
176	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
177	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
180A	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10			CARD READER	ADMISSIONS / EXIT ROUTE	8 & 11/11.01
180B	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				ADMISSIONS / FINANCIAL AID	11/11.01
180C	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				ADMISSIONS / FINANCIAL AID	11/11.01
181	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
182	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	10/8.10		10/8.10			CARD READER	RECORD VAULT	11/11.01
183	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	10/8.10		10/8.10				FILE	11/11.01
184	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
185	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
186	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	10/8.10		10/8.10				STORAGE	11/11.01
202	3' - 0"	7' - 0"	D	SCN	F	WD-1	HM	PSG	10/8.10		9/8.10	18/8.10			WOMEN'S RESTROOM	1 & 3/11.01
203	3' - 0"	7' - 0"	D	SCN	F	WD-1	HM	PSG	10/8.10		9/8.10	18/8.10			MEN'S RESTROOM	2 & 4/11.01
204A	3' - 0"	7' - 0"	D	SCN	F	WD-1	HM	PSG	10/8.10		10/8.10				LACTATION	11/11.01
204B	3' - 0"	7' - 0"	D	SCN	F	WD-1	HM	PSG	10/8.10		10/8.10				LACTATION	11/11.01
205	3' - 0"	7' - 0"	D	SCN	F	WD-1	HM	PSG	10/8.10		10/8.10				ELECTRICAL ROOM	11/11.01
206	3' - 0"	7' - 0"	D	SCN	F	WD-1	HM	PSG	10/8.10		10/8.10				IDF ROOM	11/11.01
207	3' - 0"	7' - 0"	D	SCN	F	WD-1	HM	PSG	10/8.10		9/8.10	18/8.10		CARD READER	WOMEN'S RESTROOM	1 & 3/11.01
208	3' - 0"	7' - 0"	D	SCN	F	WD-1	HM	PSG	10/8.10		9/8.10	18/8.10		CARD READER	MEN'S RESTROOM	2 & 4/11.01
209	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	10/8.10		10/8.10				JANITOR	11/11.01
211	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10			CARD READER	CONFERENCE / EXIT	9 & 11/11.01
212	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10			CARD READER	CLASSROOM / EXIT	9 & 11/11.01
220A	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10			CARD READER	VRC LOUNGE / EXIT ROUTE	8 & 11/11.01
220B	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				STUDENT EQUITY / EXIT ROUTE	8 & 11/11.01
221	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
230	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10			CARD READER	STUDENT EQUITY / EXIT ROUTE	8 & 11/11.01
231	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
232	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
233	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
234	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
240	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10			CARD READER	VP OF STUDENT SERVICES / EXIT ROUTE	8 & 11/11.01
241	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	10/8.10		10/8.10				STORAGE	11/11.01
242	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
251	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
252	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
253	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
254	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	10/8.10		10/8.10				STORAGE	11/11.01
255	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
256	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
257	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
258	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
259	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
260	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
261	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
262	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
263	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
264	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
265	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				COMPUTER ROOM	11/11.01
266A	7' - 10"	7' - 0"	B	ALUM / GL	F		ALUM / GL	F								
266B	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				COUNSELING / EXIT ROUTE	8 & 11/11.01
266C	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				COUNSELING / VP OF STUDENT SERVICES	11/11.01
266D	3' - 0"	3' - 6"	D	SCN	F	WD-1	HM	PSG			10/8.10				COUNSELING	11/11.01
266E	3' - 0"	3' - 6"	D	SCN	F	WD-1	HM	PSG			10/8.10				COUNSELING	11/11.01
270	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10			CARD READER	CAL WORKS / EXIT ROUTE	8 & 11/11.01
271	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	10/8.10		10/8.10				STORAGE	11/11.01
272	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
273	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
274	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
279	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	10/8.10		10/8.10			CARD READER	COMPUTER / PRINT	11/11.01
280A	3' - 0"	3' - 6"	D	SCN	F	WD-1	HM	PSG			10/8.10				EOPS	11/11.01
280B	3' - 0"	3' - 6"	D	SCN	F	WD-1	HM	PSG			10/8.10				EOPS	11/11.01
281A	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	10/8.10		10/8.10				STORAGE	11/11.01
281B	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	10/8.10		10/8.10				STORAGE	11/11.01
282A	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
282B	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
283	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
284	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
285	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
286	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
287	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
288	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
289	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
290	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				FOSTER & KINSHIP CARE / EXIT ROUTE	8 & 11/11.01
291	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	10/8.10		10/8.10				STORAGE	11/11.01
292	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01
293	3' - 0"	7' - 0"	C	SCN	F	WD-1	HM	PSG	4/8.10	1/8.10	10/8.10				VERIFY W/ OWNER	10/11.01

DOOR TYPES



DOOR TYPE A



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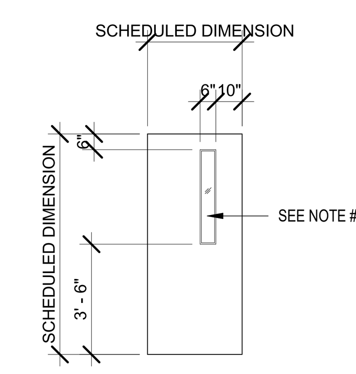
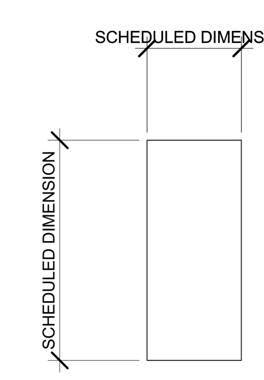
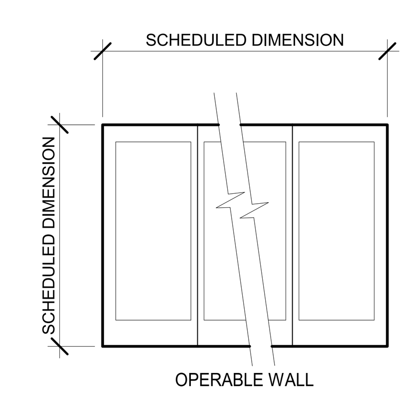


DOOR TYPE C



DOOR TYPE D



DOOR TYPE E

NOTES

1. DOORS SHALL BE 1-3/4" THICK UNLESS NOTED OTHERWISE.
2. THE LETTER 'P' FOLLOWING THE 'DOOR TYPE' DESIGNATION IN THE DOOR SCHEDULE INDICATES PAIR OF DOORS. BOTH LEAVES ARE THE SAME SIZE, UNLESS NOTED OTHERWISE.
3. THE LETTER 'X' FOLLOWING THE 'DOOR TYPE' LETTER IN THE DOOR SCHEDULE INDICATES A FIXED PANEL ABOVE DOOR LEAF. SCHEDULE DIMENSION INCLUDES PANEL, UNLESS NOTED OTHERWISE.
4. FIXED PANELS SHALL BE OF THE SAME MATERIAL, CONSTRUCTION AND THICKNESS AS DOOR LEAF, AND SHALL BE PROVIDED BY THE SAME MANUFACTURER, UNLESS NOTED OTHERWISE.
5. THE LETTER 'L' FOLLOWING 'DOOR TYPE' DESIGNATION IN THE DOOR SCHEDULE INDICATES DOORS WITH LOUVERS. SEE DOOR TYPE FOR SIZE OF LOUVER.
6. LOUVERS IN EXTERIOR DOORS SHALL BE VANDAL-PROOF, SECURITY TYPE.
7. ALL GLAZING TO BE TEMPERED SAFETY GLAZING.
8. EXTERIOR DOOR REQUIREMENTS:

   ALL EXTERIOR DOORS IN BUILDINGS, INCLUDING, BUT NOT LIMITED TO DOORS OF TOILETS AND STORAGE ROOMS, SHALL CONFORM WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE CALIFORNIA BUILDING CODE.

   a. EXIT DOOR SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.

   b. HAND ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 30" AND 44" ABOVE FINISH FLOOR.

   c. DEAD BOLTS ARE NOT PERMITTED UNLESS OPERABLE WITH A SINGLE EFFORT LEVER TYPE HARDWARE.

   d. ALL ROOMS SERVING AN OCCUPANCY LOAD OF 50 OR GREATER AND DOORS LOCATED ON THE DISCHARGE OF EXIT CORRIDORS ARE REQUIRED TO BE PROVIDED WITH PANIC HARDWARE (CBC 1008.1.10).

   e. ALL FIRE DOOR LABELS SHALL COMPLY WITH CBC 715.4.6
9. FIRE ASSEMBLIES REQUIRED TO HAVE A ONE-HOUR FIRE-PROTECTION RATING SHALL BE EITHER AUTOMATIC OR SELF-CLOSING FIRE ASSEMBLIES TO BE ACTIVATED BY AN INCREASE IN TEMPERATURE SHALL HAVE HEAT-ACTIVATING DEVICES INSTALLED ON EACH SIDE OF THE WALL AT THE CEILING HEIGHT WHERE THE CEILING IS MORE THAN 3 FEET ABOVE THE TOP OF THE OPENING OR BY A SINGLE FUSSIBLE LINK IN THE OPENING INCORPORATED IN THE CLOSING DEVICE.
10. ALL FIRE-RESISTIVE ASSEMBLIES FOR PROTECTED OPENING SHALL COMPLY WITH SECTION 713 CBC.
11. SEE SPECIFICATION SECTION 08 71 00 FOR DOOR HARDWARE INDEX AND DOOR HARDWARE SETS.
12. FINAL ROOM NUMBERS AND NAMES FOR SIGNAGE ARE TO BE COORDINATED WITH THE COLLEGE.
13. FOR CARD READER MOUNTING HEIGHT, SEE DETAIL 7/ 8.10

ABBREVIATIONS

AFP	ACCORDION TYPE PARTITION
ALUM	ALUMINUM
AS	ACID STAIN
ATFD	ACCORDION TYPE FIRE DOOR
DEM PART	DEMOUNTABLE PARTITION
(E)	EXISTING
EP	EPOXY PAINT
F	FACTORY FINISH
FFD	FOLDING FABRIC DOOR
FFP	FOLDING PANEL PARTITION
FFWD	FOLDING PANEL WOOD DOOR
GL	GLASS
HCN	HOLLOW CORE NATURAL FINISH
HCP	HOLLOW CORE PAINT FINISH
HM	HOLLOW METAL
LAQ	LACQUER FINISH
MCN	MINERAL CORE NATURAL FINISH
MCP	MINERAL CORE PAINT FINISH
PE	PAINT EGGSHELL
PF	PAINT FLAT
PG	PAINT GLOSS
PSG	PAINT SEMI-GLOSS
S.	SEAL
SCN	SOLID CORE NATURAL FINISH
SCP	SOLID CORE PAINT FINISH
SCPL	SOLID CORE PLASTIC LAMINATE
STN	STAIN FINISH
SST	STAINLESS STEEL
STL	STL
UG	UNGLAZED
VF	VARNISH FINISH
W	WAX

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-119686 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/14/2019

DIVISION OF THE STATE ARCHITECT
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consultant

COMPTON COLLEGE
STUDENT SERVICES BLDG.

COMPTON COMMUNITY COLLEGE DISTRICT
1111 E. ARTESIA BLVD.
COMPTON, CA 90221

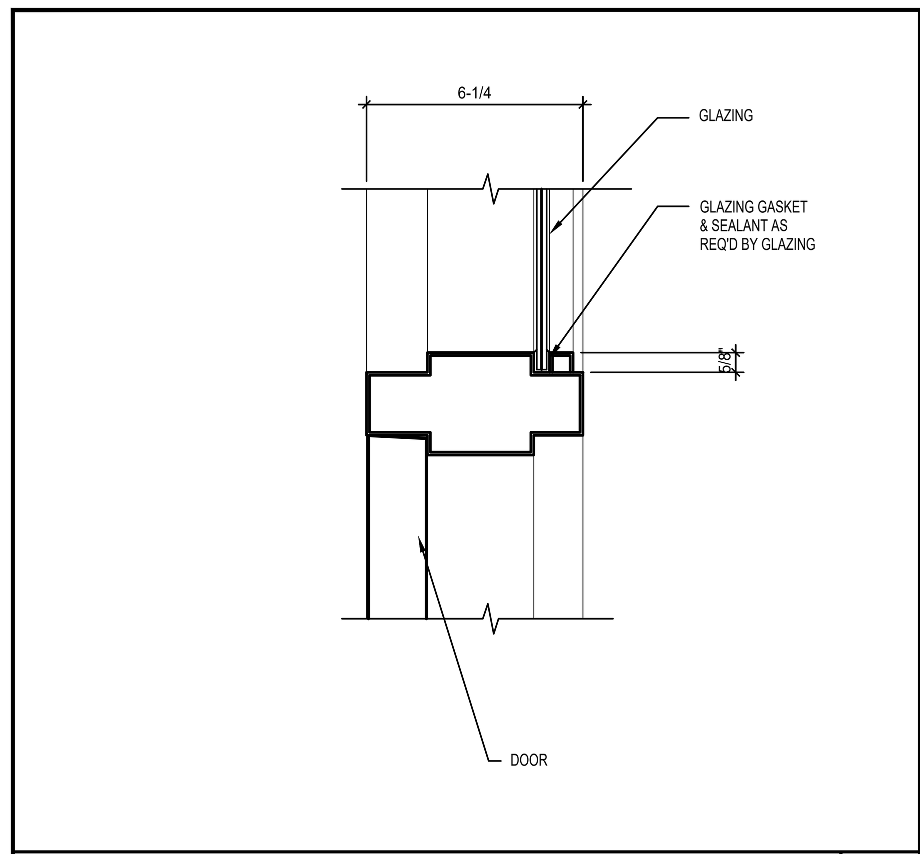
owner

tBP project number: 20987.00
file name: CC_SS_Central.RVT
drawn by: Z. WEN checked by: T. HALL
date: 9.3.2019

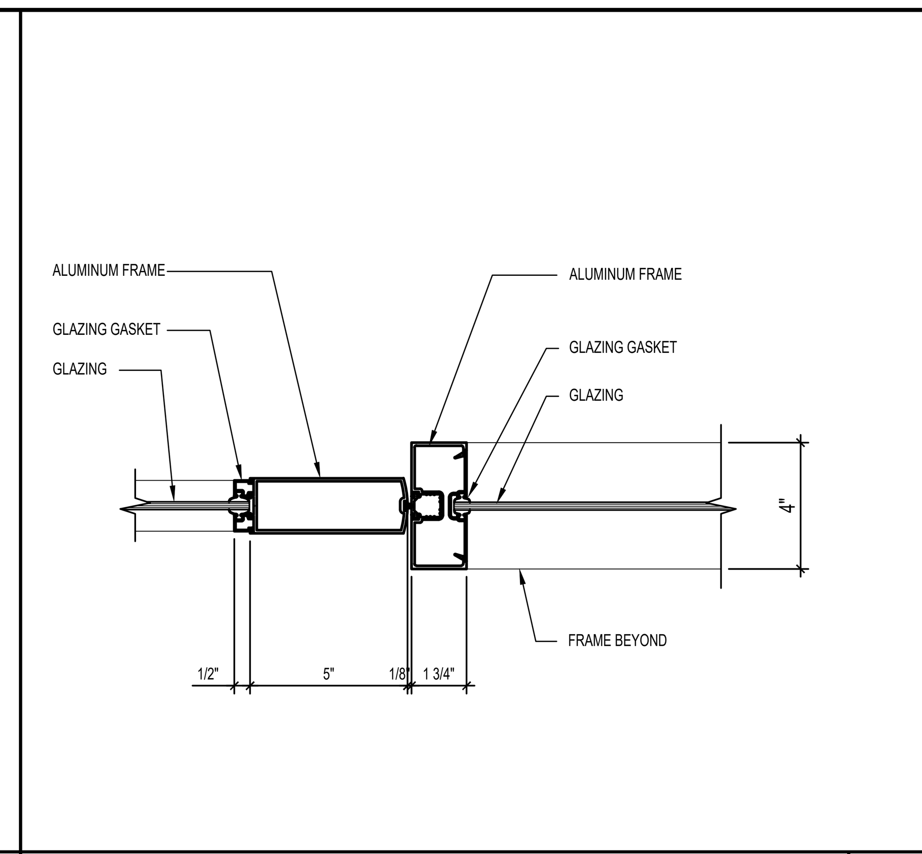
rev: date: description:

drawing title:
DOOR SCHEDULE

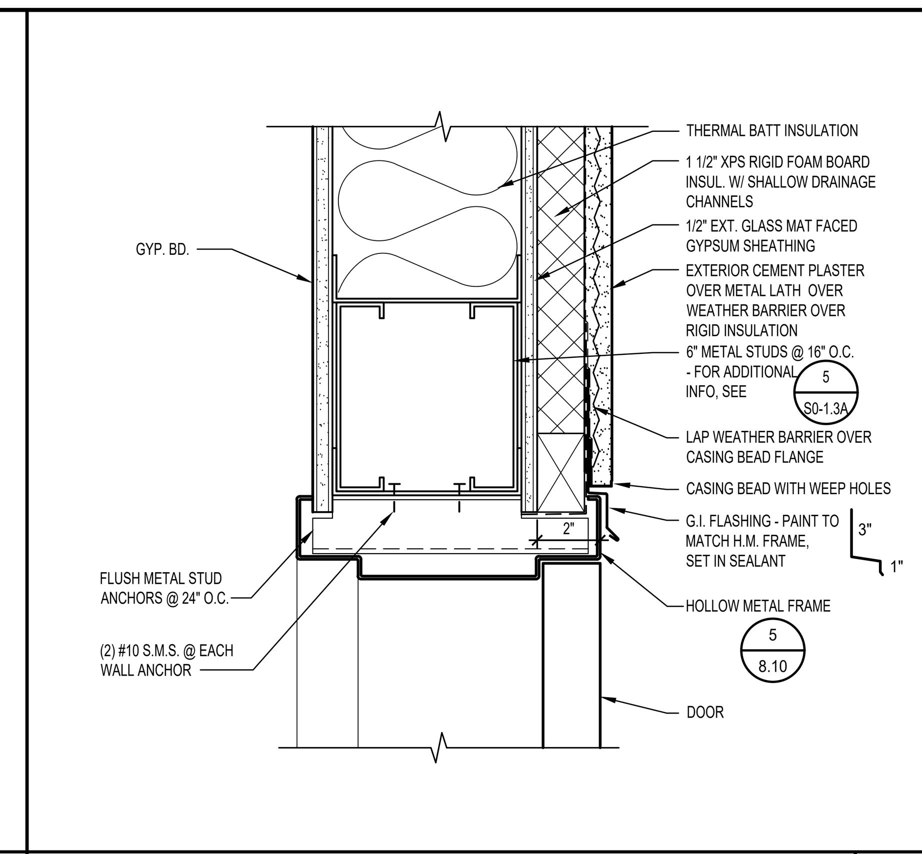
drawing no.:
8.01



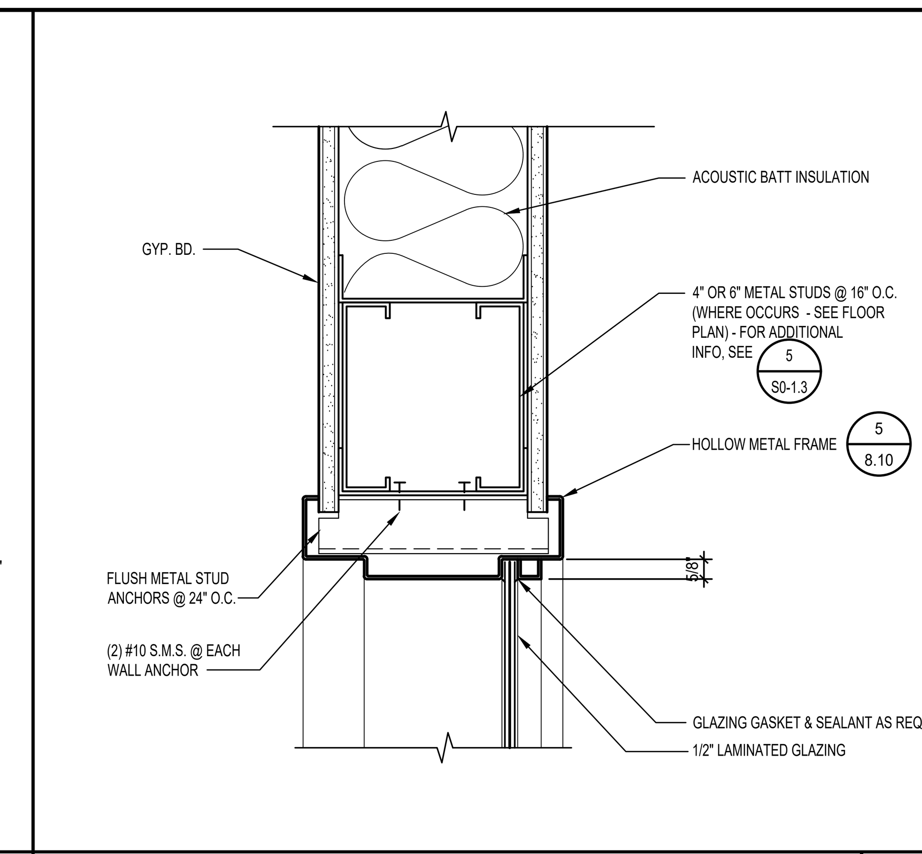
INTERIOR. H.M. DOOR HEAD @ TRANSOM SCALE: 3" = 1'-0" 1



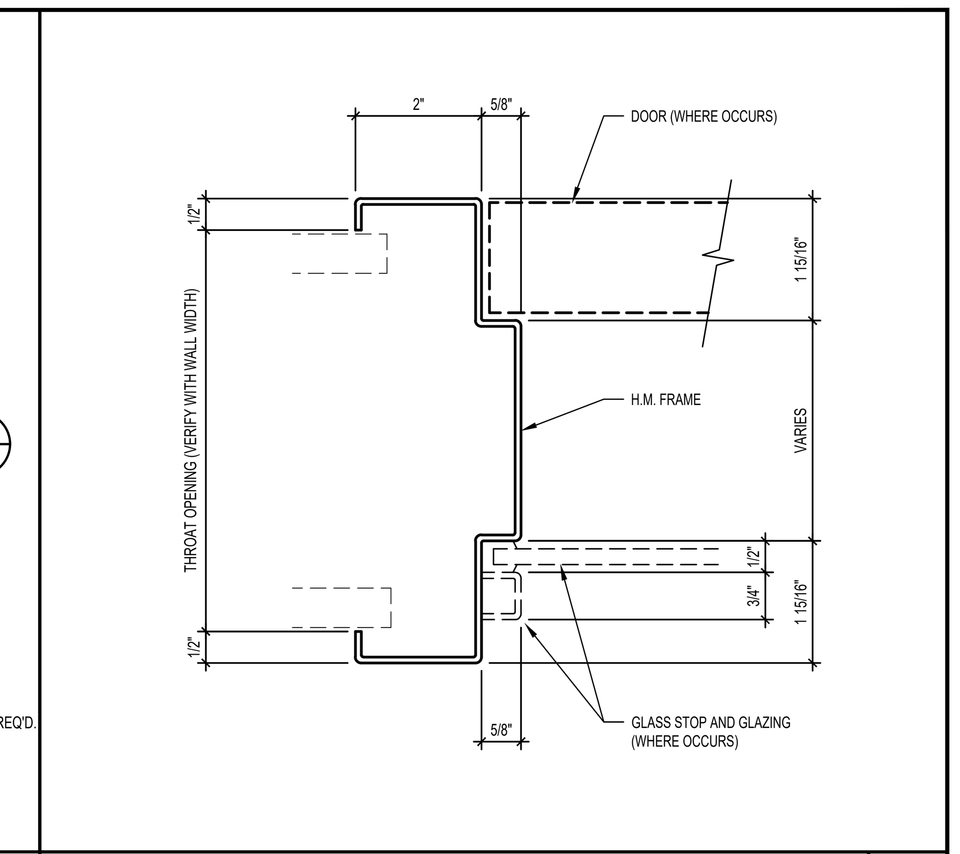
STOREFRONT DOOR HINGE - JAMB SCALE: 3" = 1'-0" 2



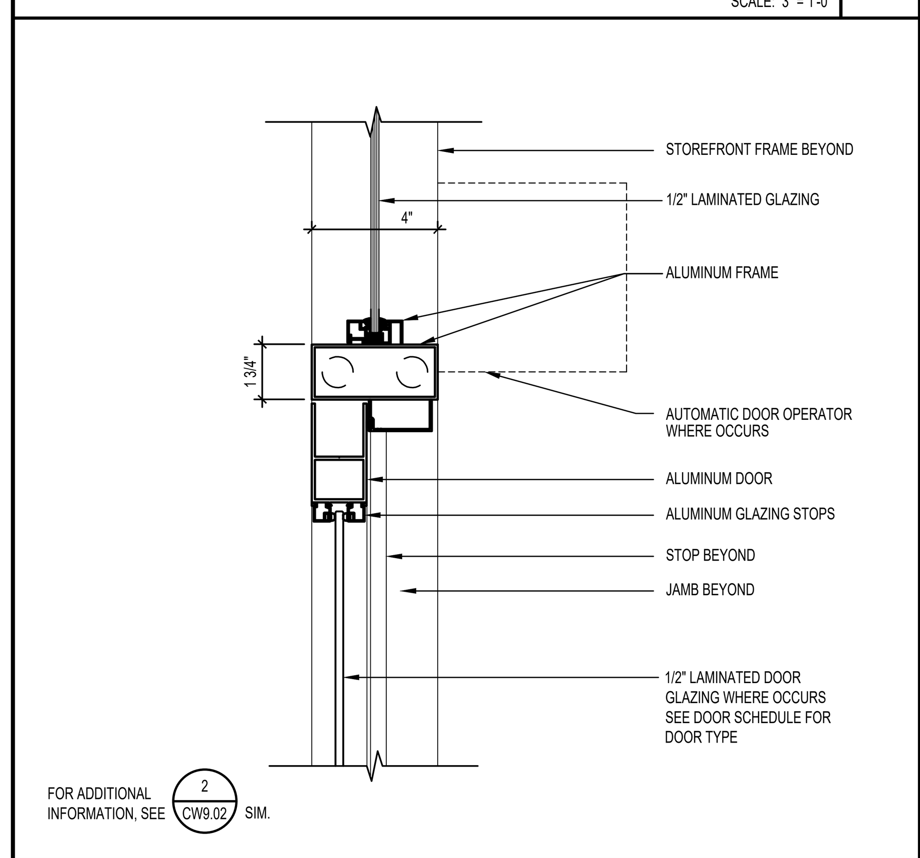
EXTERIOR H.M. DOOR HEAD @ CEM. PLAST. SCALE: 3" = 1'-0" 3



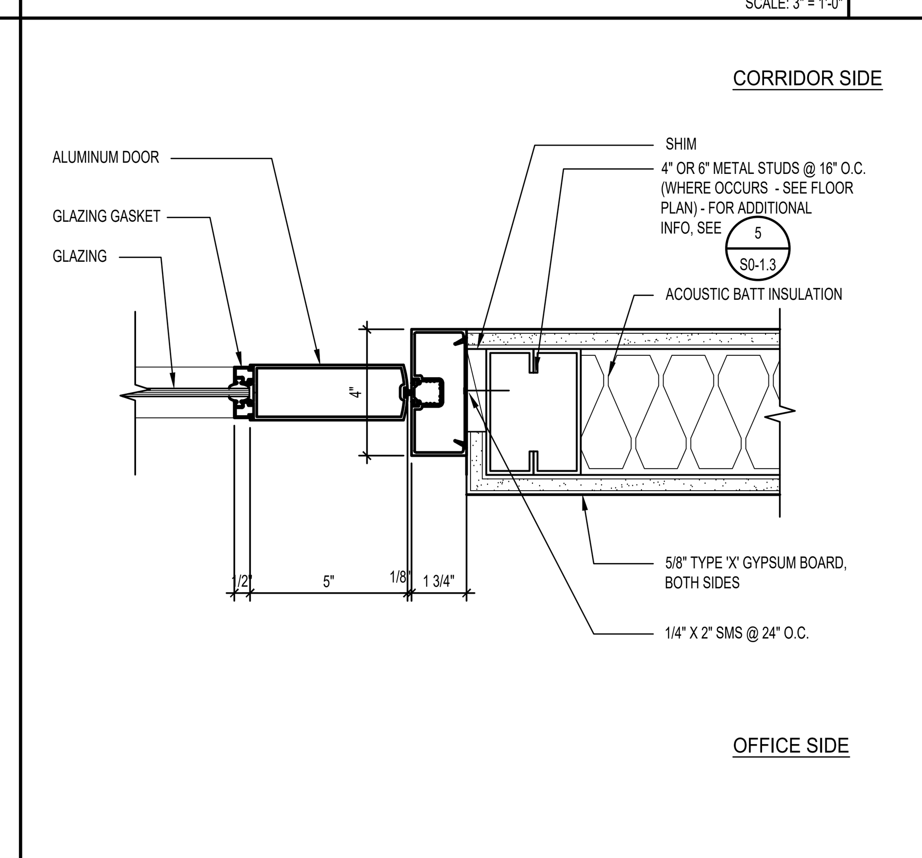
INTERIOR HEAD @ H.M. TRANSOM SCALE: 3" = 1'-0" 4



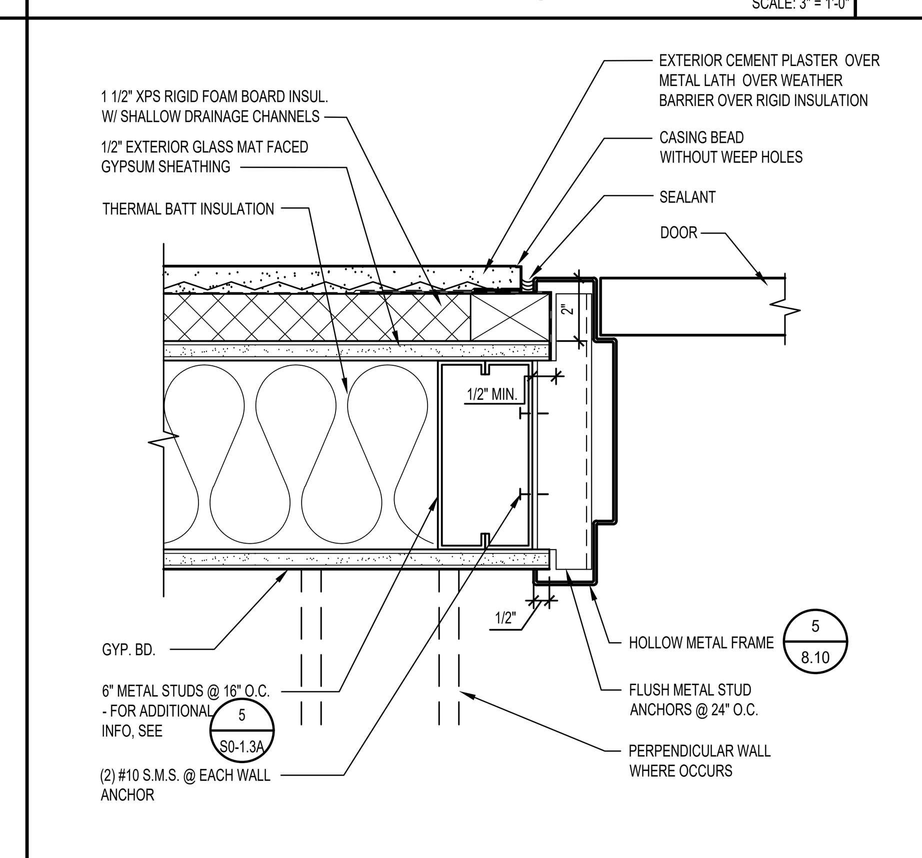
TYPICAL HOLLOW METAL FRAME PROFILE SCALE: HALF 5



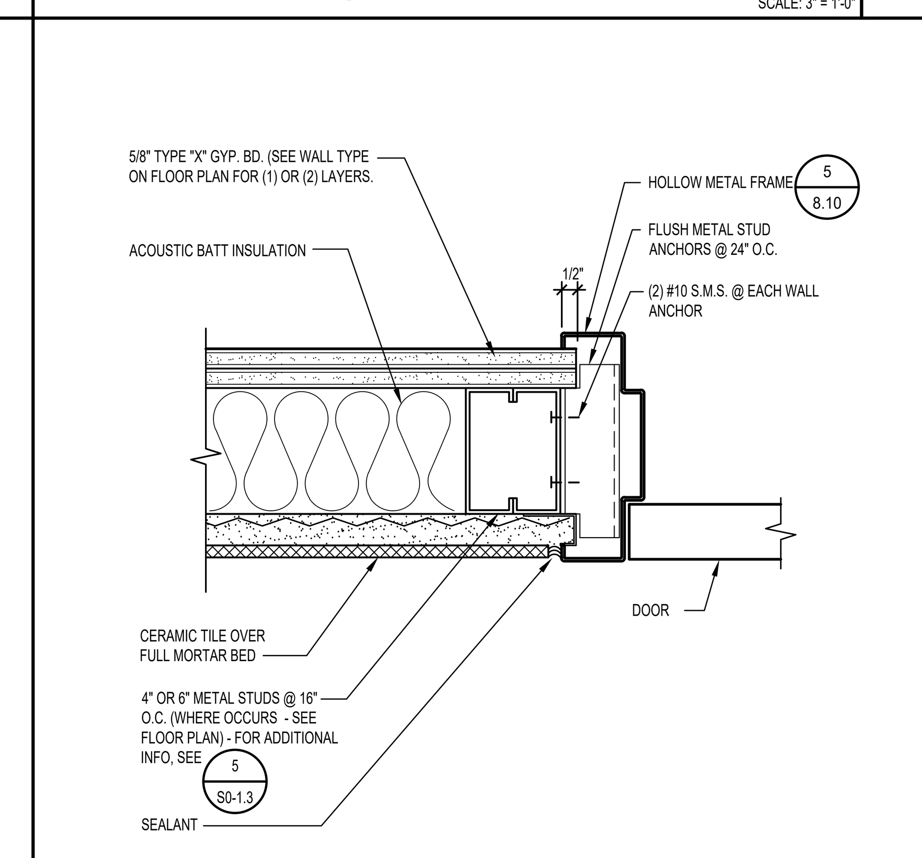
INT. STOREFRONT DOOR HEAD @ ALUM DR. SCALE: 3" = 1'-0" 6



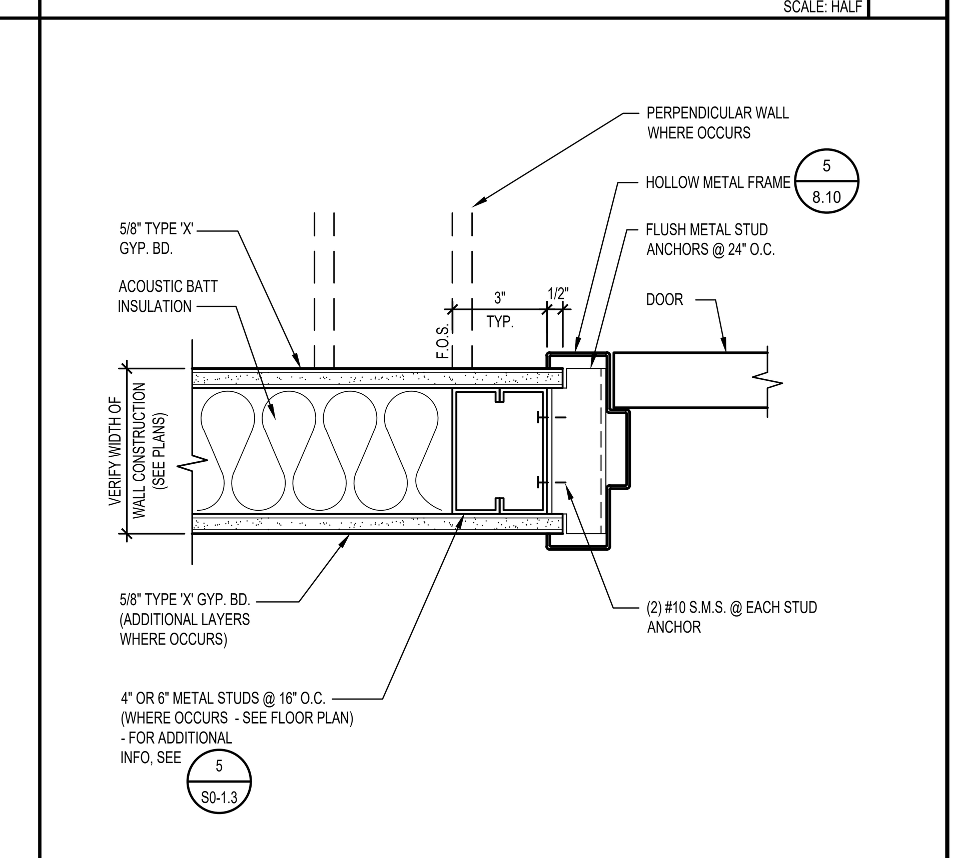
STOREFRONT DOOR JAMB @ HINGE SCALE: 3" = 1'-0" 7



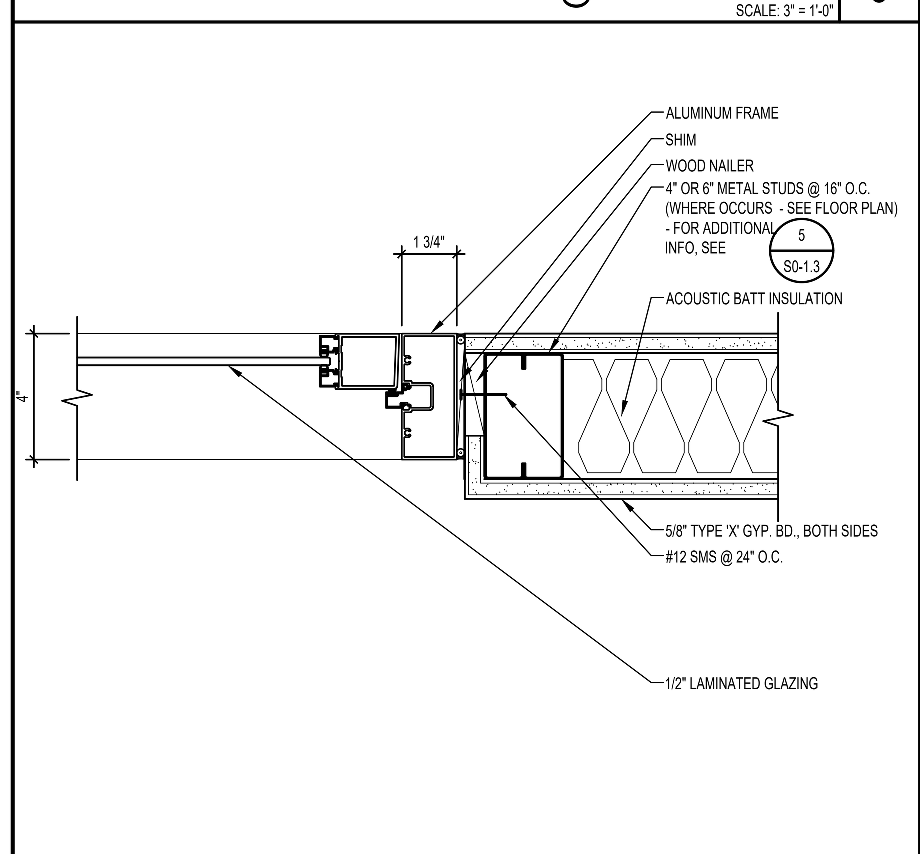
EXTERIOR H.M. JAMB @ CEM. PLAST. SCALE: 3" = 1'-0" 8



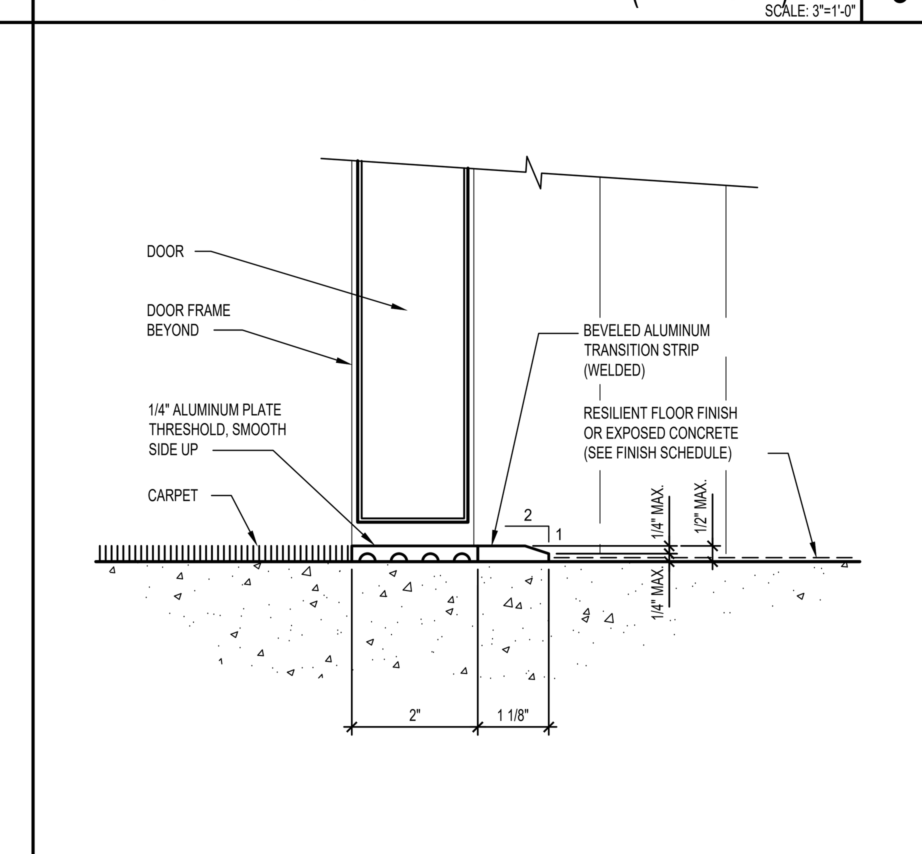
INTERIOR H.M. DOOR JAMB AT TILE WALL (HEAD SIM.) SCALE: 3"=1'-0" 9



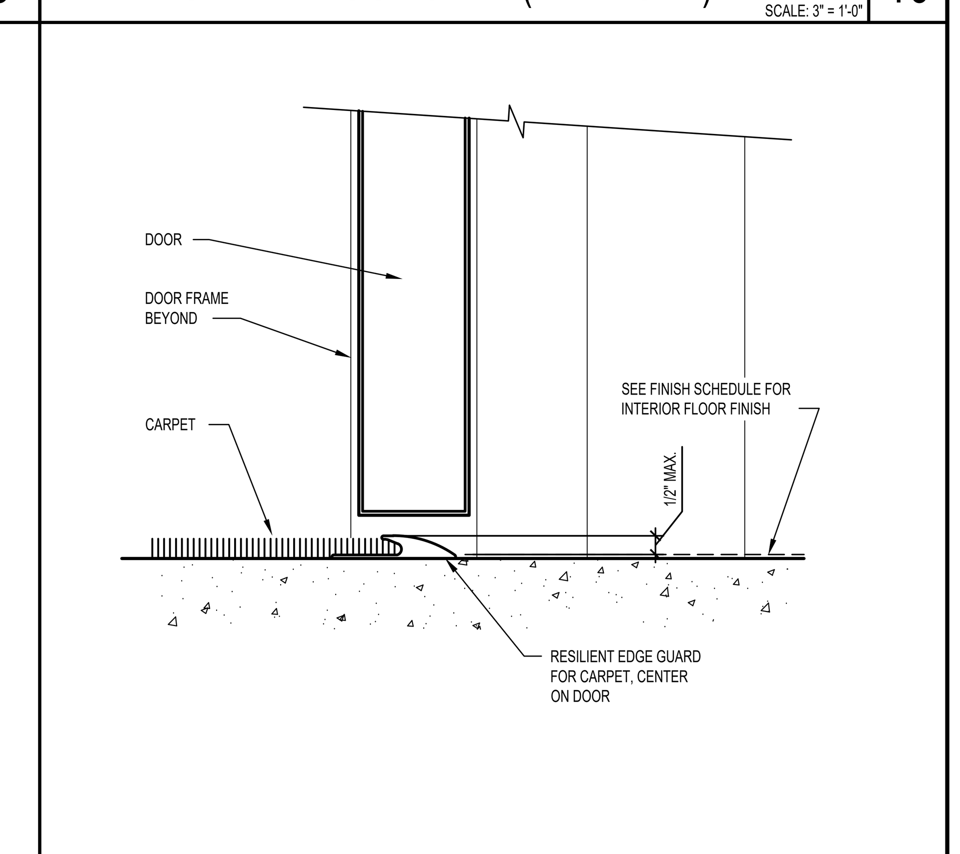
INTERIOR H.M. DOOR JAMB (HEAD SIM.) SCALE: 3" = 1'-0" 10



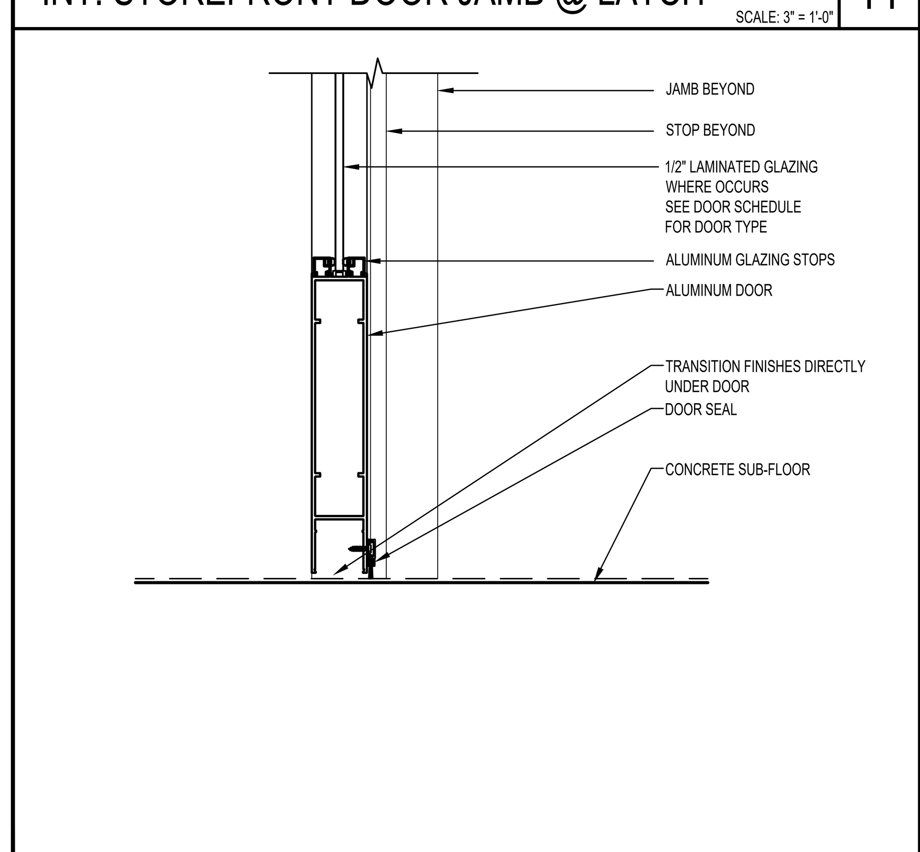
INT. STOREFRONT DOOR JAMB @ LATCH SCALE: 3" = 1'-0" 11



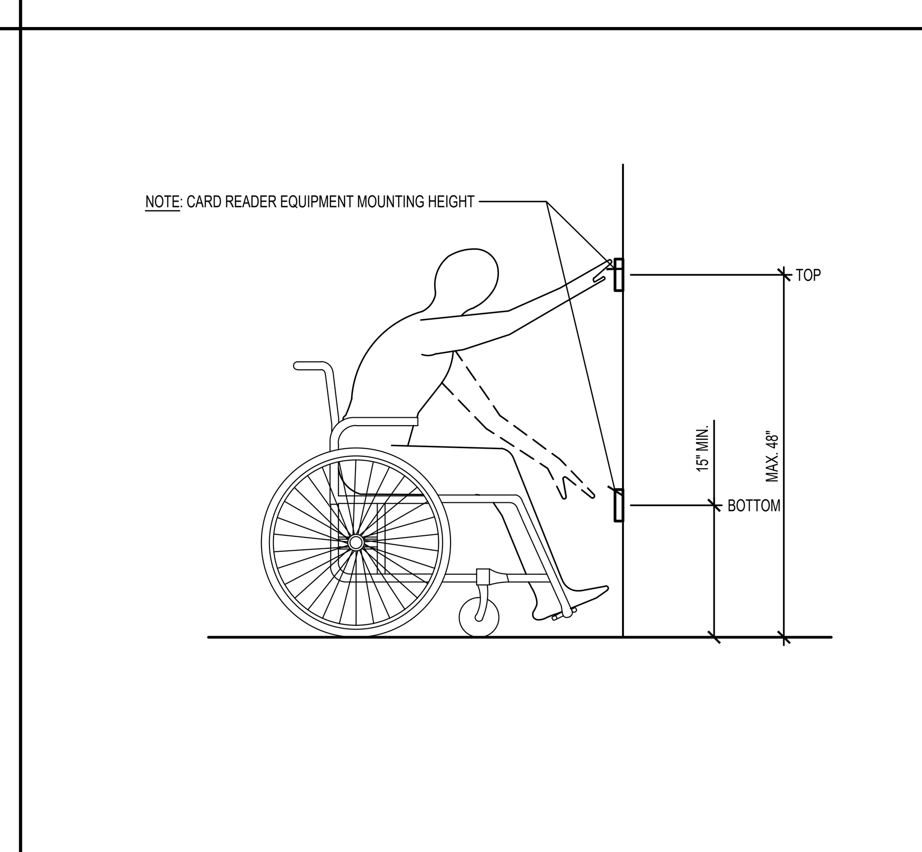
INTERIOR METAL THRESHOLD DETAIL SCALE: HALF 14



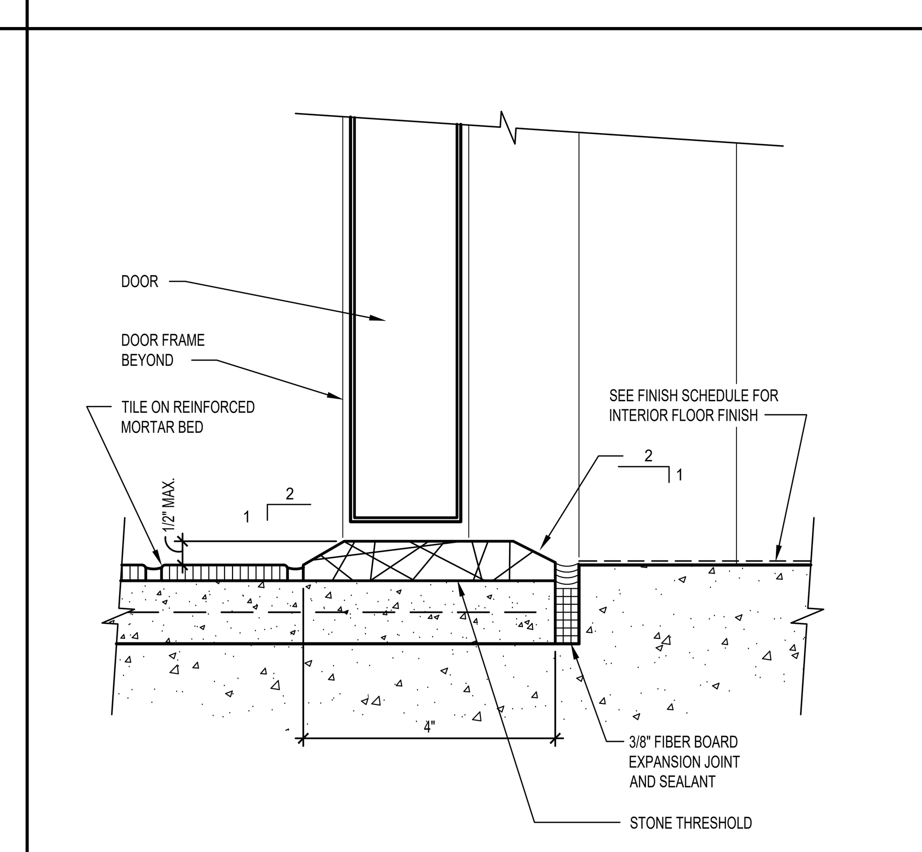
INTERIOR CARPET EDGE THRESHOLD DETAIL SCALE: HALF 15



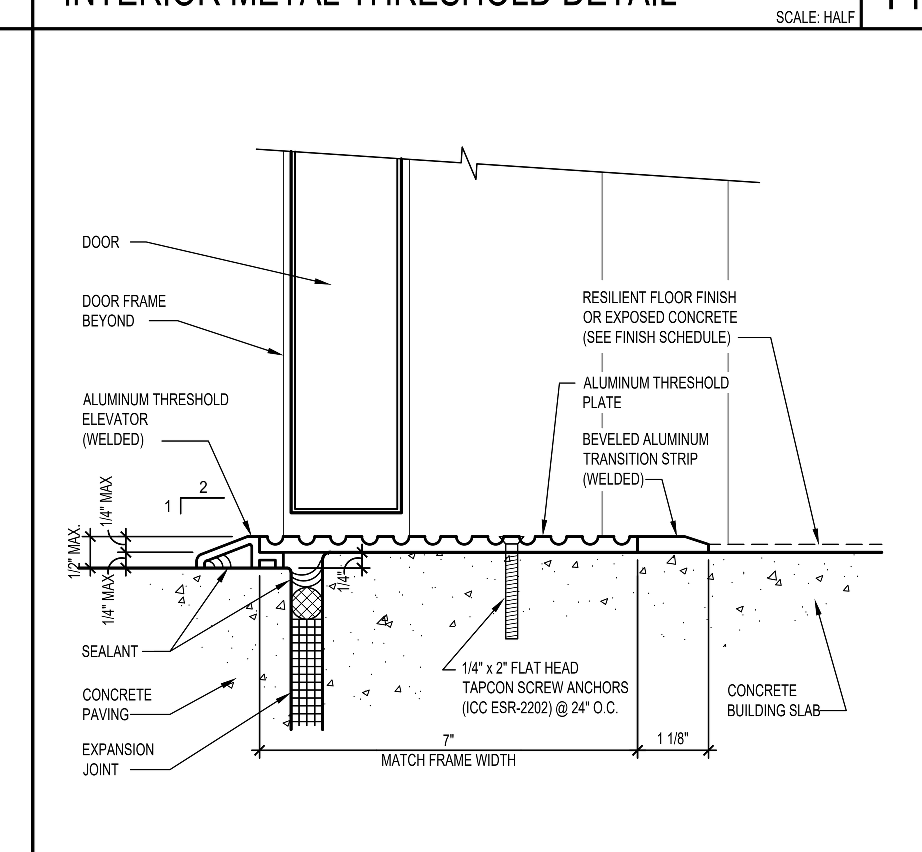
INT. STOREFRONT DOOR THRESHOLD- ALUM DR. SCALE: 3" = 1'-0" 16



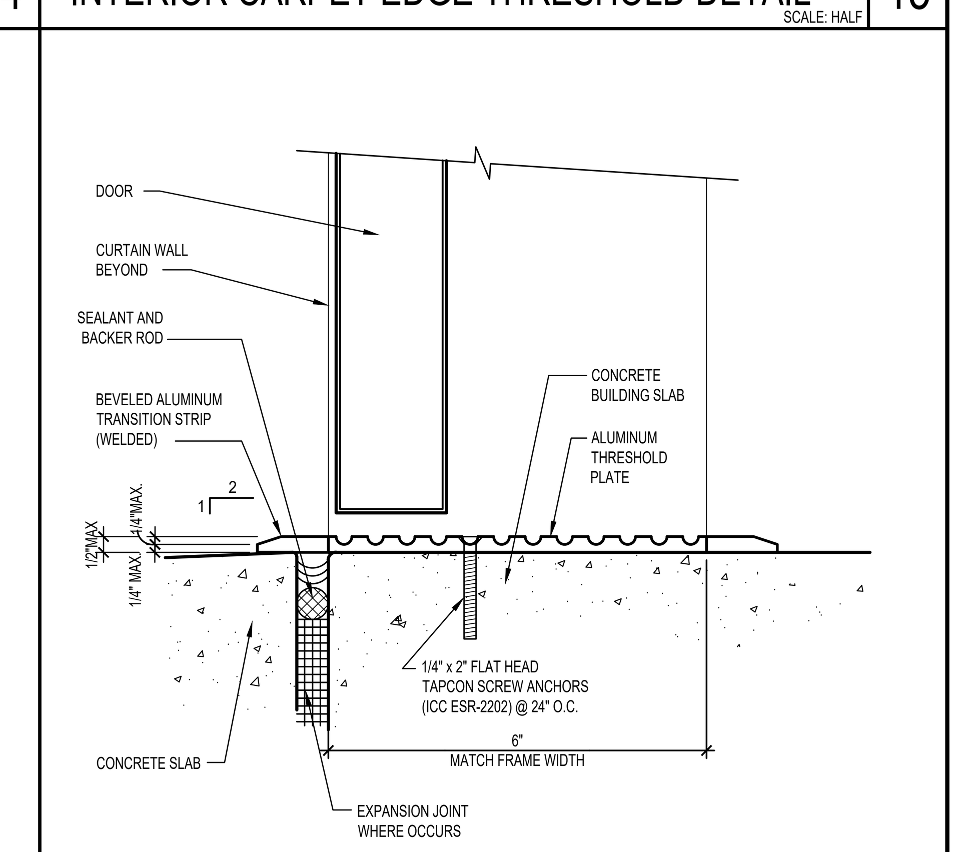
CARD READER MOUNTING HEIGHT SCALE: 3/4" = 1'-0" 17



INTERIOR STONE THRESHOLD AT TILE FLOOR SCALE: HALF 18



EXTERIOR METAL THRESHOLD DETAIL SCALE: HALF 19



EXTERIOR METAL THRESHOLD DETAIL SCALE: HALF 20

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DATE: 10/14/2019

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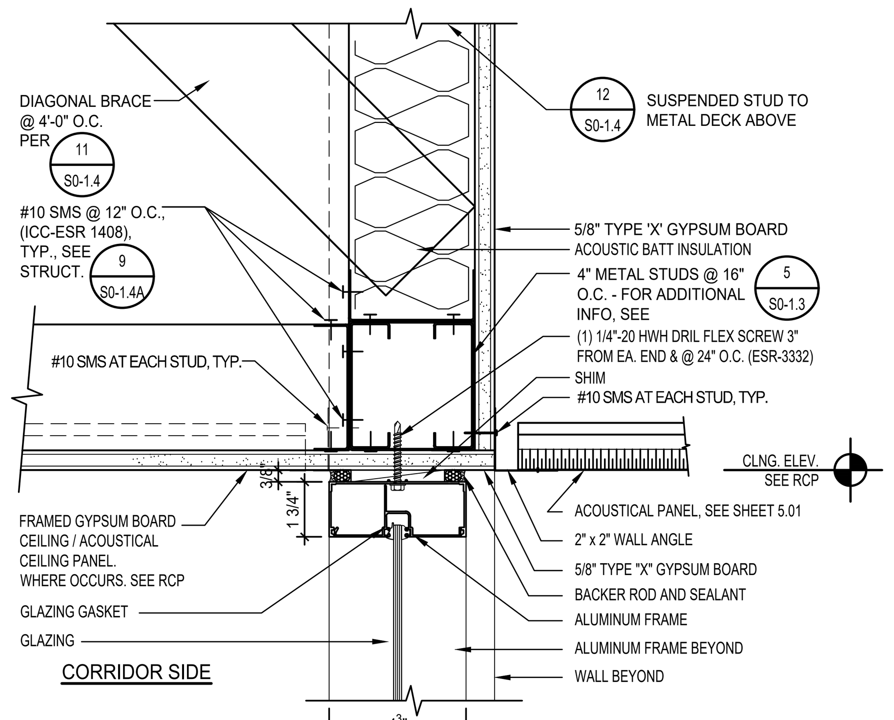
owner

tBP project number : 20987.00
file name: DTL-0810.DWG
drawn by: tBP checked by: T. HALL
date: 9.3.2019

Rev:	date:	description:

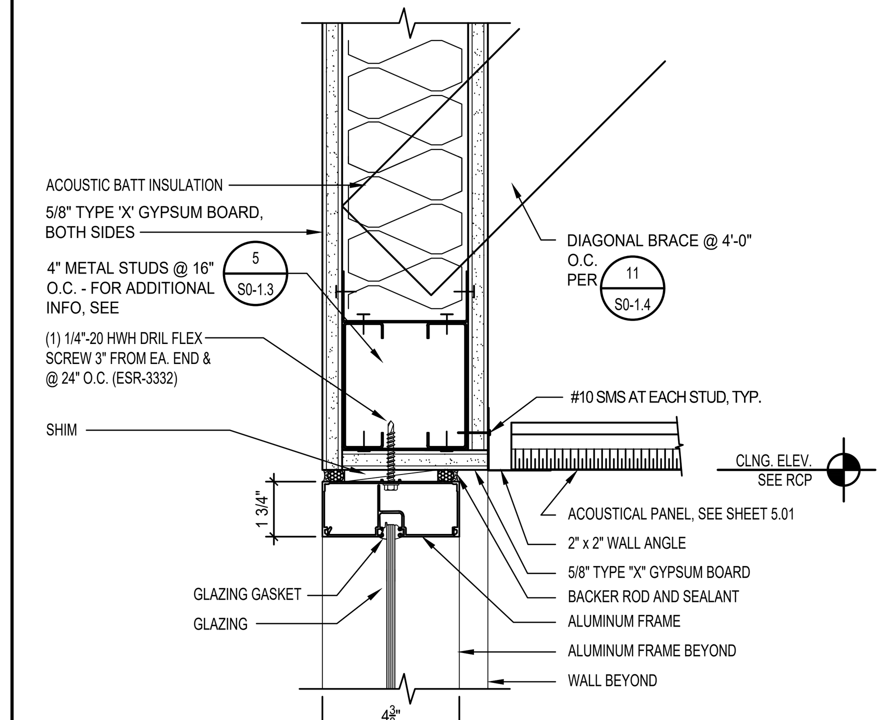
drawing title:
DOOR DETAILS

drawing no.:
8.10



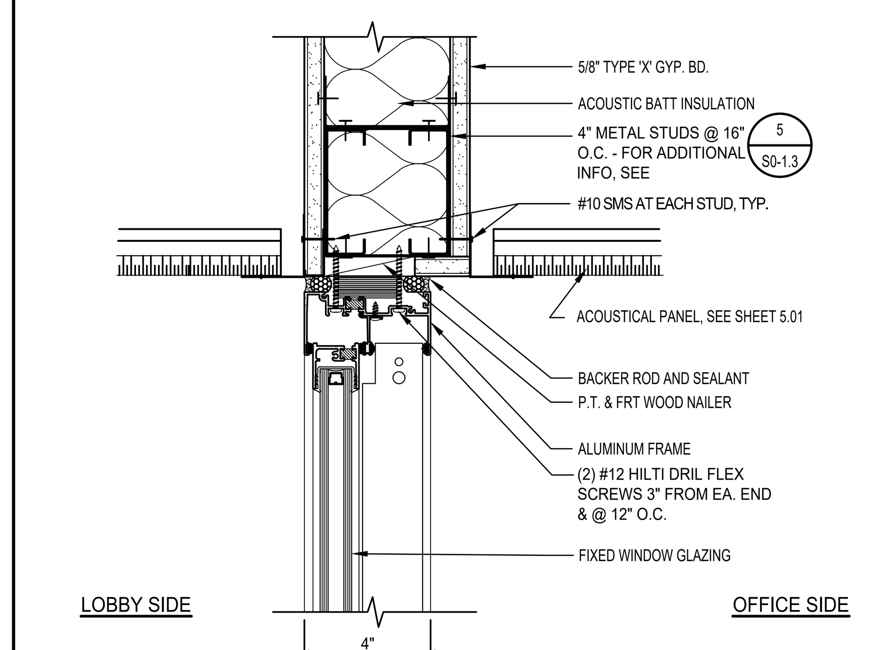
NOTES:
1. FOR ADDITIONAL INFO, REFER TO STOREFRONT SHOP DRAWING 1 CW 13.01
2. SEE REFLECTED CEILING PLAN FOR CEILING TYPE & HEIGHT

INT. STOREFRONT - HEAD 1
SCALE: 3" = 1'-0"



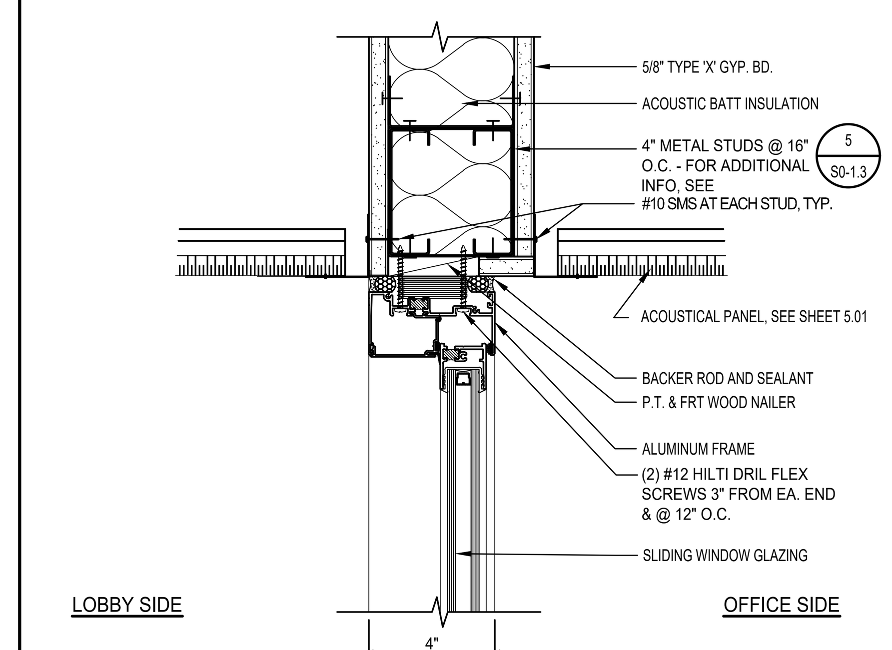
NOTES:
1. FOR ADDITIONAL INFO, REFER TO STOREFRONT SHOP DRAWING 4 CW 13.01
2. SEE REFLECTED CEILING PLAN FOR CEILING TYPE & HEIGHT

INT. STOREFRONT - HEAD 2
SCALE: 3" = 1'-0"



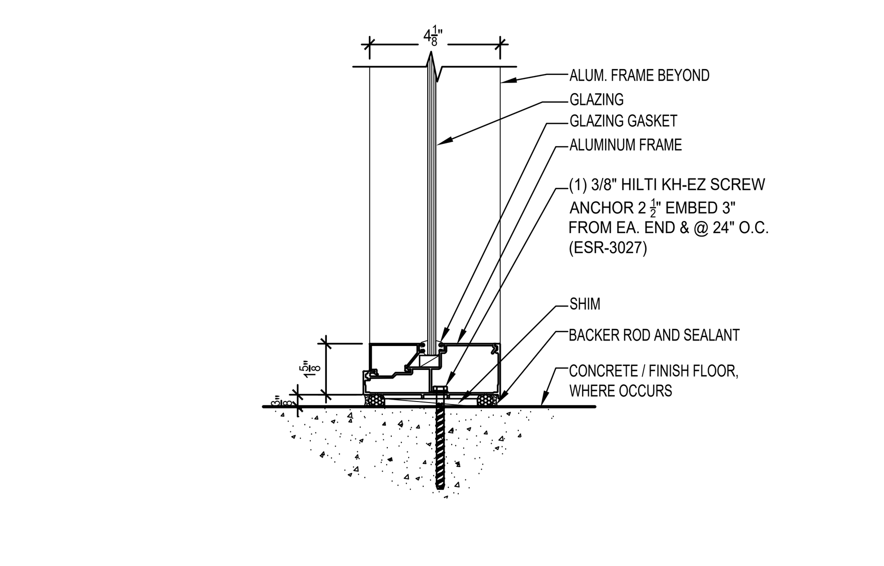
NOTES:
1. FOR ADDITIONAL INFO, REFER TO STOREFRONT SHOP DRAWING 1 CW 11.02

INT. STOREFRONT HEAD @ FIXED TRANSACTION WINDOW 4
SCALE: 3" = 1'-0"



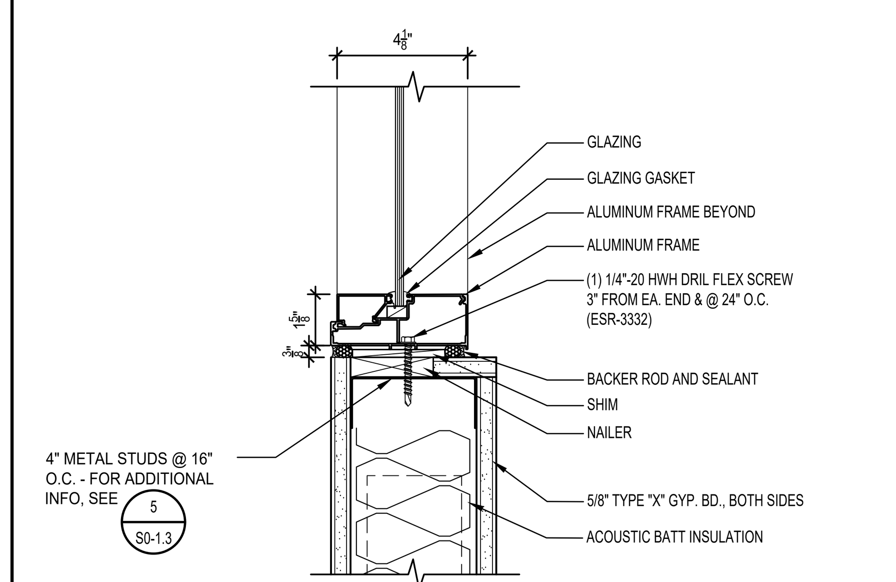
NOTES:
1. FOR ADDITIONAL INFO, REFER TO STOREFRONT SHOP DRAWING 3 CW 11.02

INT. STOREFRONT HEAD @ SLIDING TRANSACT. WINDOW 5
SCALE: 3" = 1'-0"



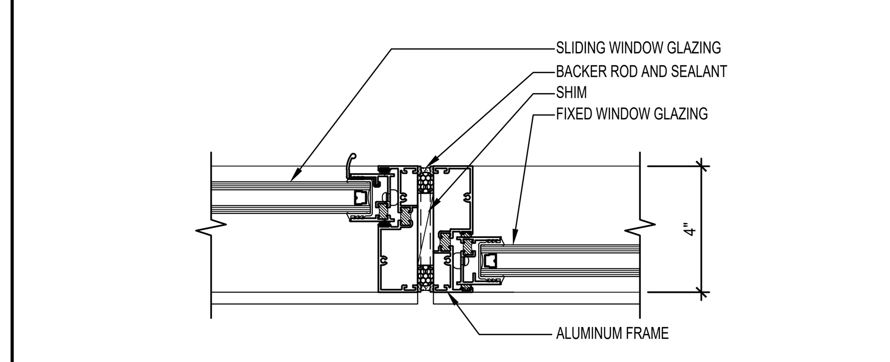
NOTES:
1. FOR ADDITIONAL INFO, REFER TO STOREFRONT SHOP DRAWING 3 CW 13.01

INT. STOREFRONT - SILL 6
SCALE: 3" = 1'-0"



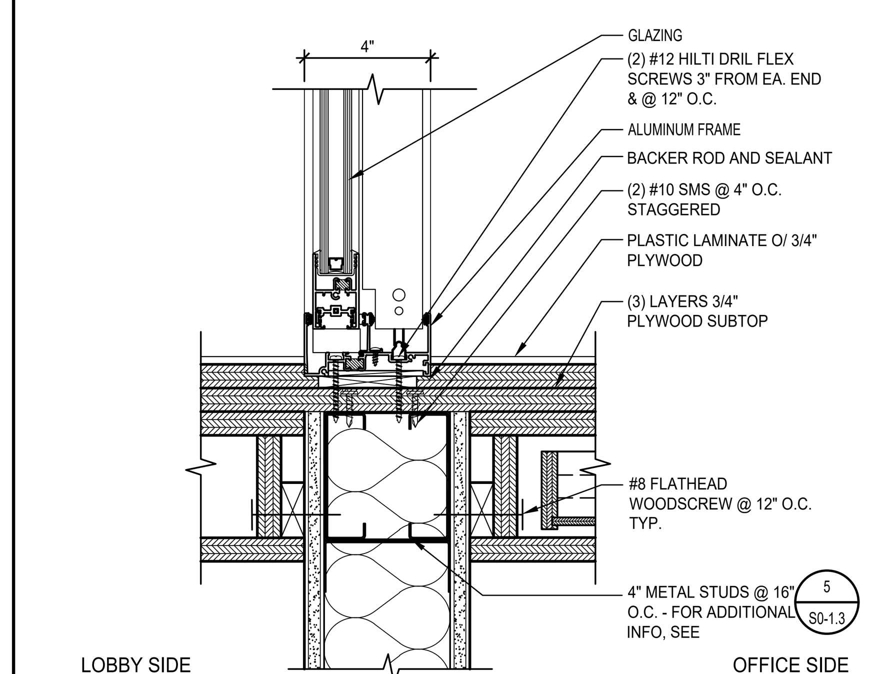
NOTES:
1. FOR ADDITIONAL INFO, REFER TO STOREFRONT SHOP DRAWING 6 CW 13.01

INT. STOREFRONT - SILL 7
SCALE: 3" = 1'-0"



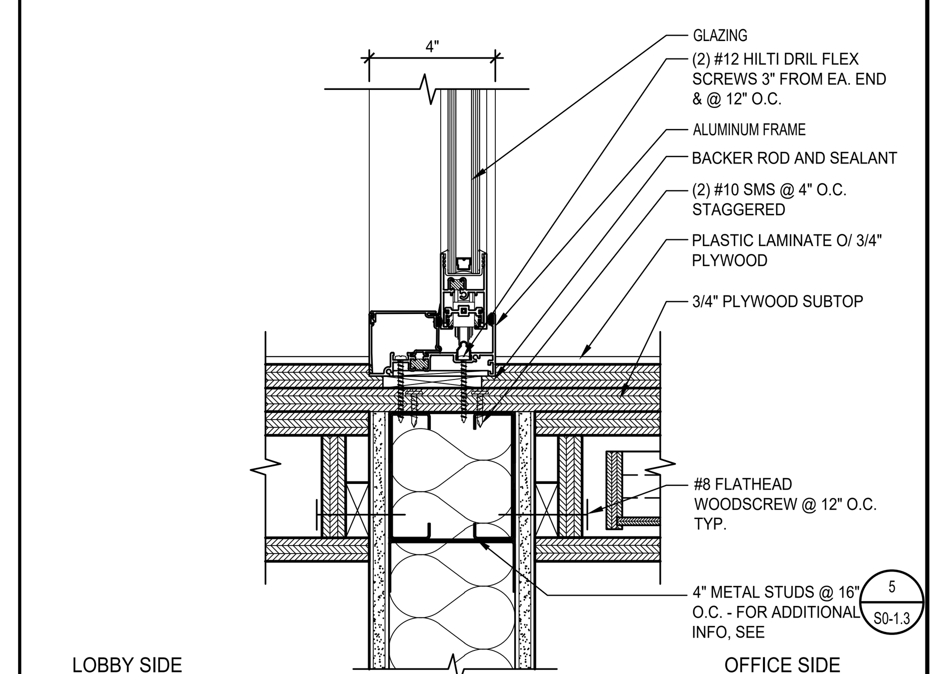
NOTES:
1. FOR ADDITIONAL INFO, REFER TO STOREFRONT SHOP DRAWING 5 CW 12.01

INT. STOREFRONT - SLIDING WINDOW MULLION 8
SCALE: 3" = 1'-0"



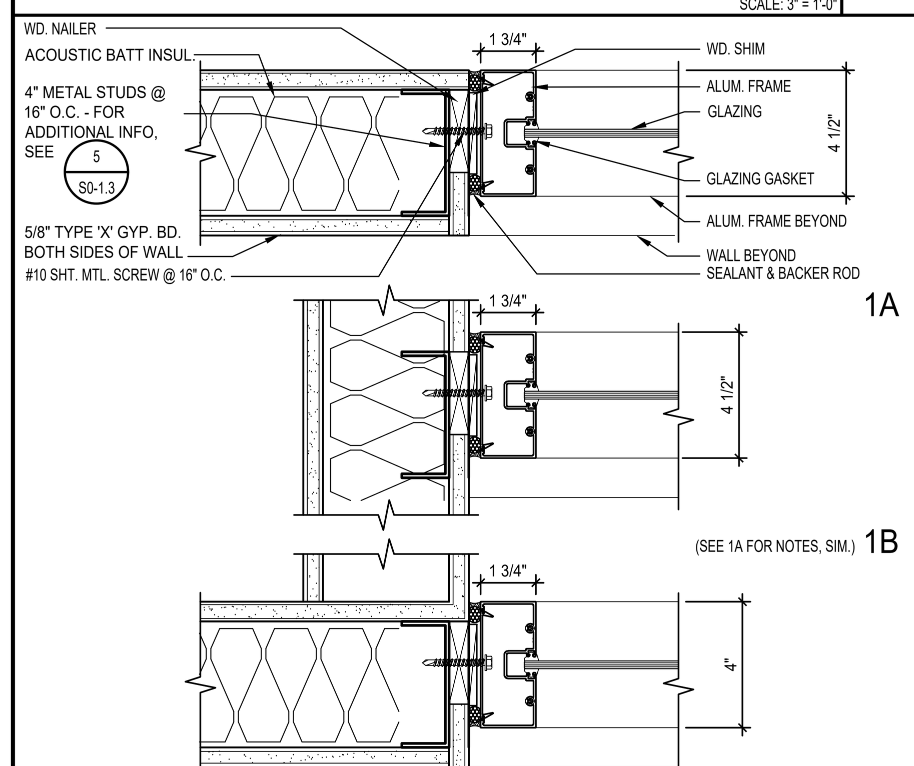
NOTES:
1. FOR ADDITIONAL INFO, REFER TO STOREFRONT SHOP DRAWING 2 CW 11.02

INT. STOREFRONT SILL @ FIXED TRANSACTION WINDOW 9
SCALE: 3" = 1'-0"



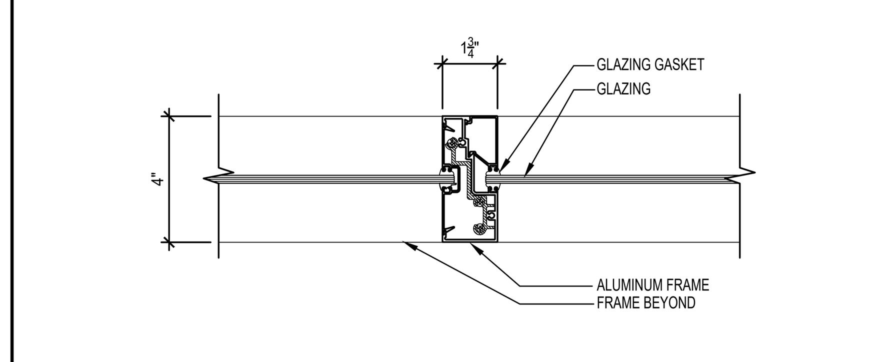
NOTES:
1. FOR ADDITIONAL INFO, REFER TO STOREFRONT SHOP DRAWING 4 CW 11.02

INT. STOREFRONT SILL @ SLIDING TRANSACT. WINDOW 10
SCALE: 3" = 1'-0"



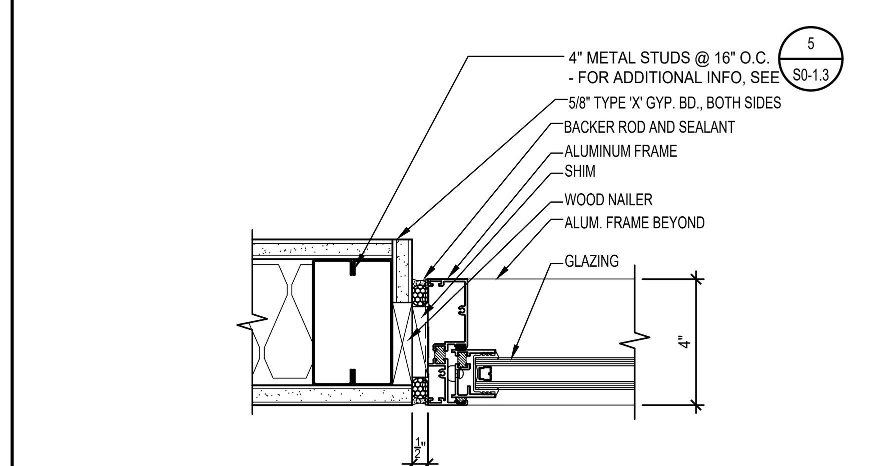
NOTES:
1. FOR ADDITIONAL INFO, REFER TO STOREFRONT SHOP DRAWING 1 CW 14.01

INT. STOREFRONT - JAMB 11
SCALE: 3" = 1'-0"



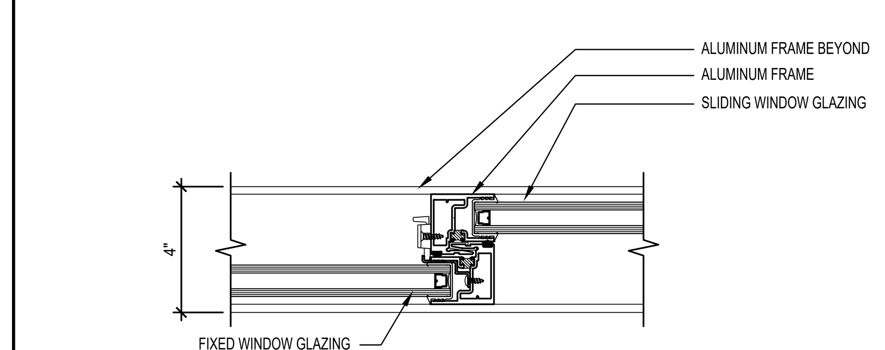
NOTES:
1. FOR ADDITIONAL INFO, REFER TO STOREFRONT SHOP DRAWING 2 CW 13.01 HORIZ. 2 CW 14.01 VERT.

INT. STOREFRONT - VERTICAL/HORIZ. MULLION 12
SCALE: 3" = 1'-0"



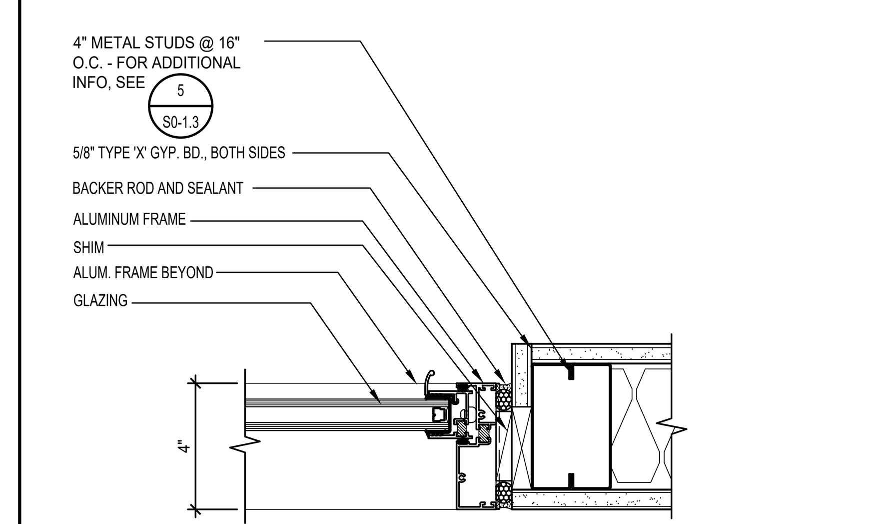
NOTES:
1. FOR ADDITIONAL INFO, REFER TO STOREFRONT SHOP DRAWING 3 CW 12.01

INT. STOREFRONT JAMB @ FIXED TRANSACT. WINDOW 13
SCALE: 3" = 1'-0"



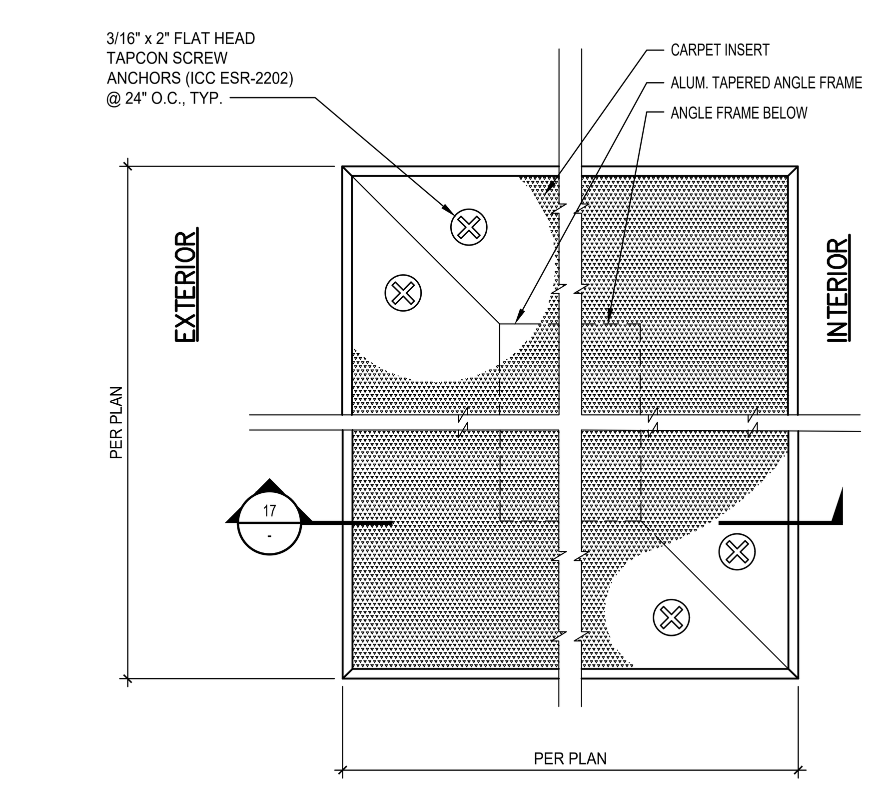
NOTES:
1. FOR ADDITIONAL INFO, REFER TO STOREFRONT SHOP DRAWING 4 CW 12.01

INT. STOREFRONT - FIXED/SLIDING WINDOW JAMB 14
SCALE: 3" = 1'-0"

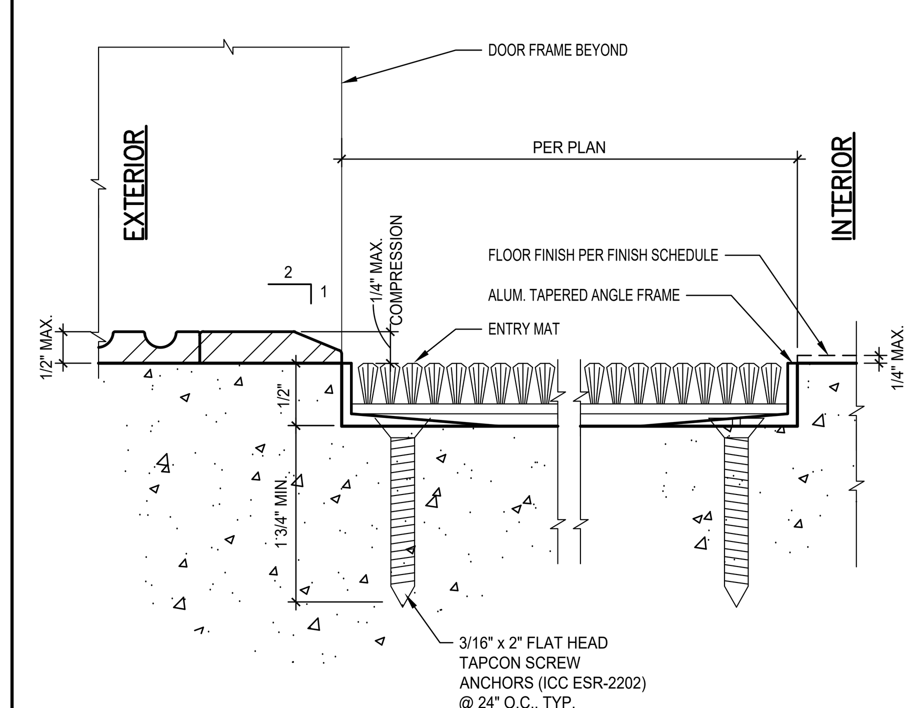


NOTES:
1. FOR ADDITIONAL INFO, REFER TO STOREFRONT SHOP DRAWING 7 CW 12.01

INT. STOREFRONT JAMB @ SLIDING TRANSACT. WINDOW 15
SCALE: 3" = 1'-0"



RECESSED FLOOR MAT - PLAN 16
SCALE: FULL



RECESSED FLOOR MAT @ THRESHOLD SECTION 17
SCALE: FULL

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DATE: 10/14/2019

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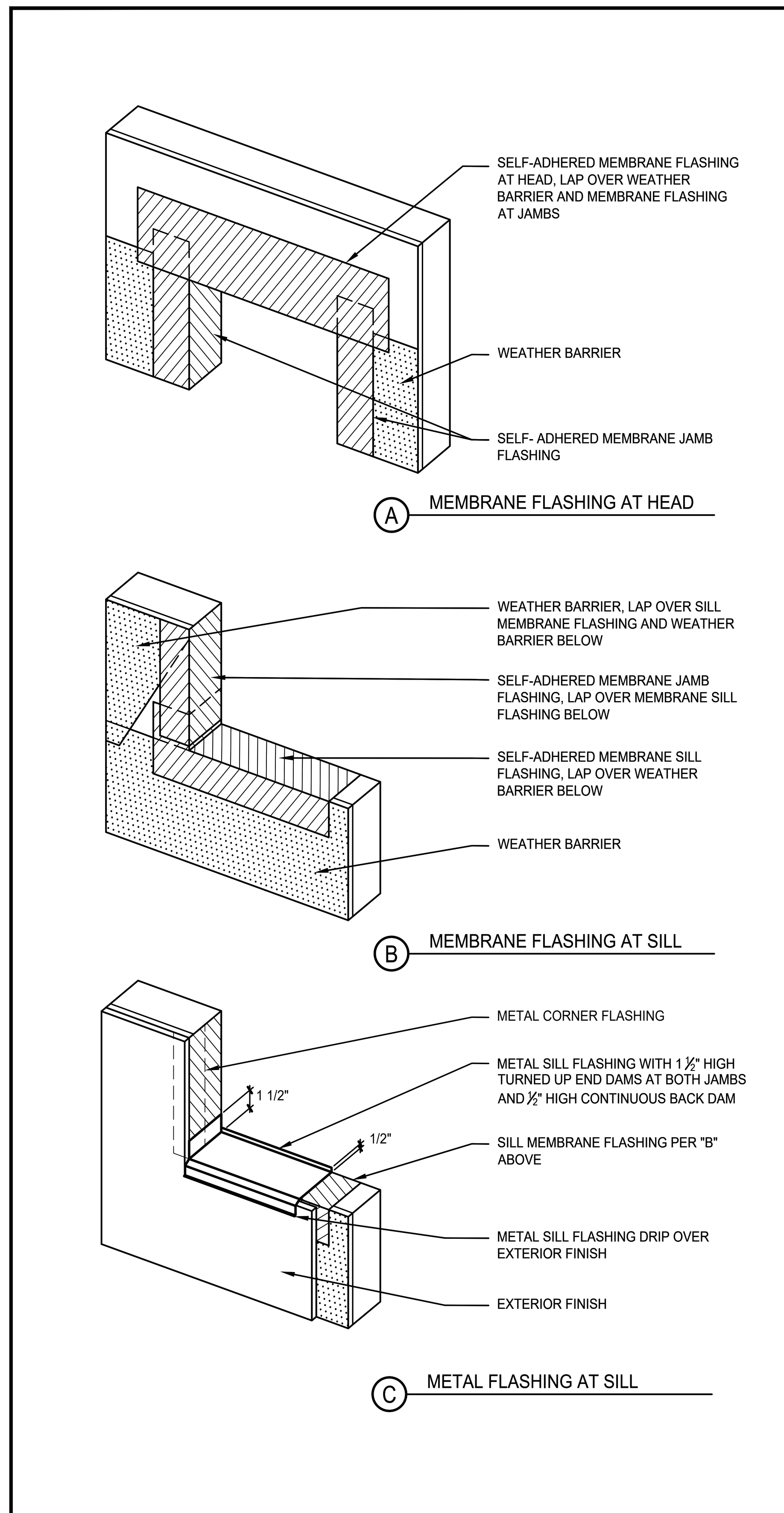
owner

tBP project number : 20987.00
file name: DTL-0811.DWG
drawn by: tBP checked by: T. HALL
date: 9.3.2019

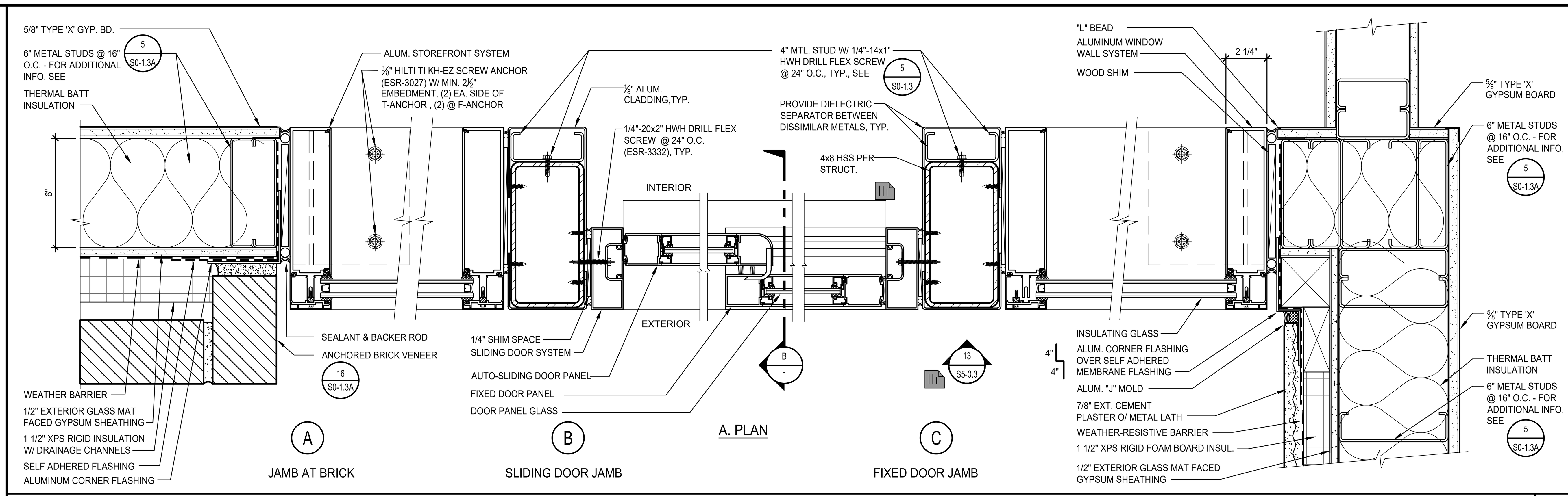
Rev:	date:	description:

drawing title:
INTERIOR STOREFRONT DETAILS

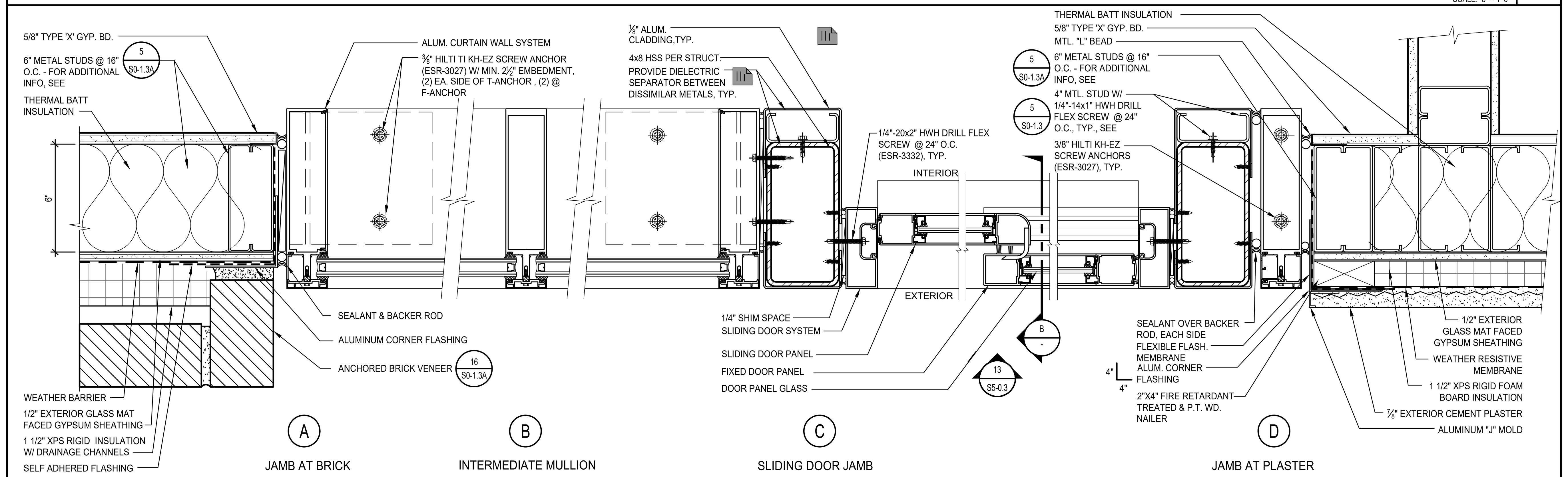
drawing no.:
8.11



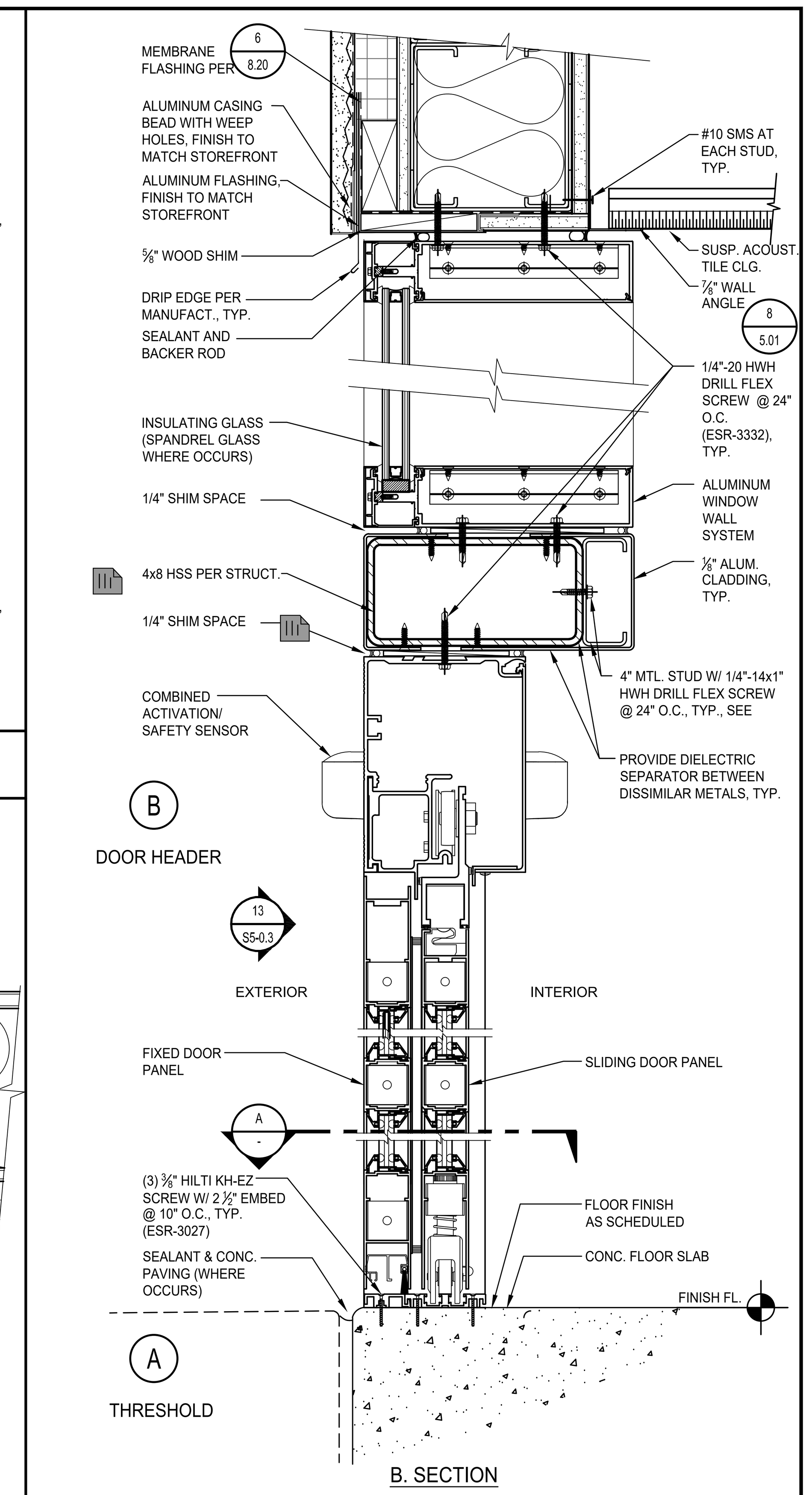
TYPICAL FLASHING AT OPENINGS SCALE: N.T.S. 6



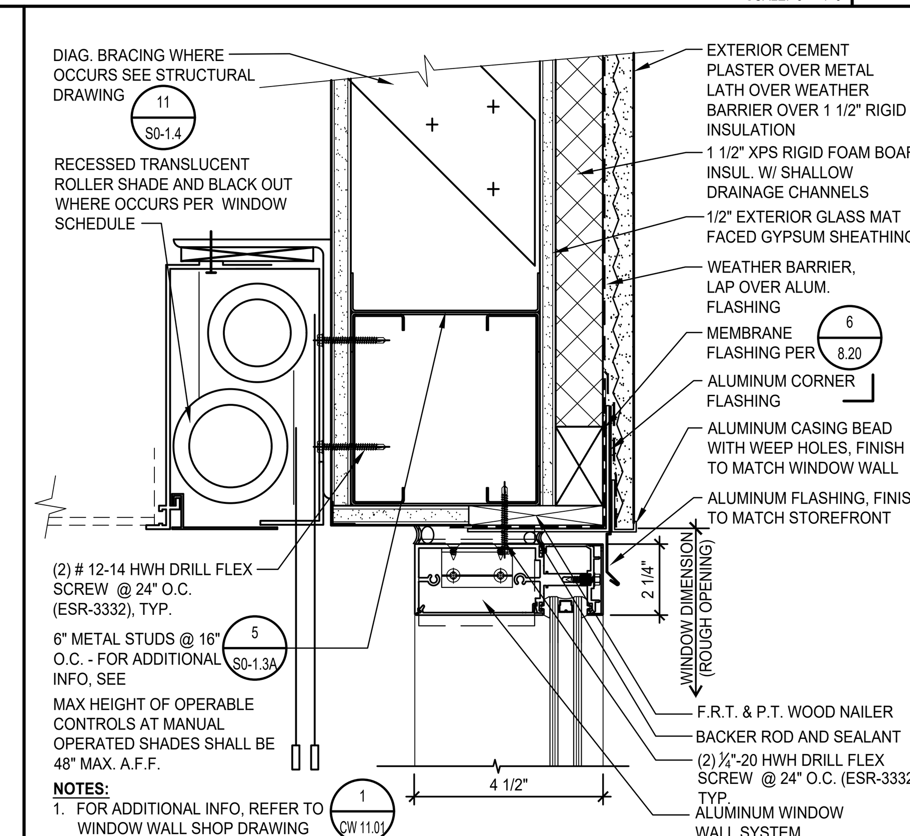
SLIDING INTERMEDIATE DOOR JAMB / CORNER - PLAN VIEW (AL 101) SCALE: 3" = 1'-0" 4



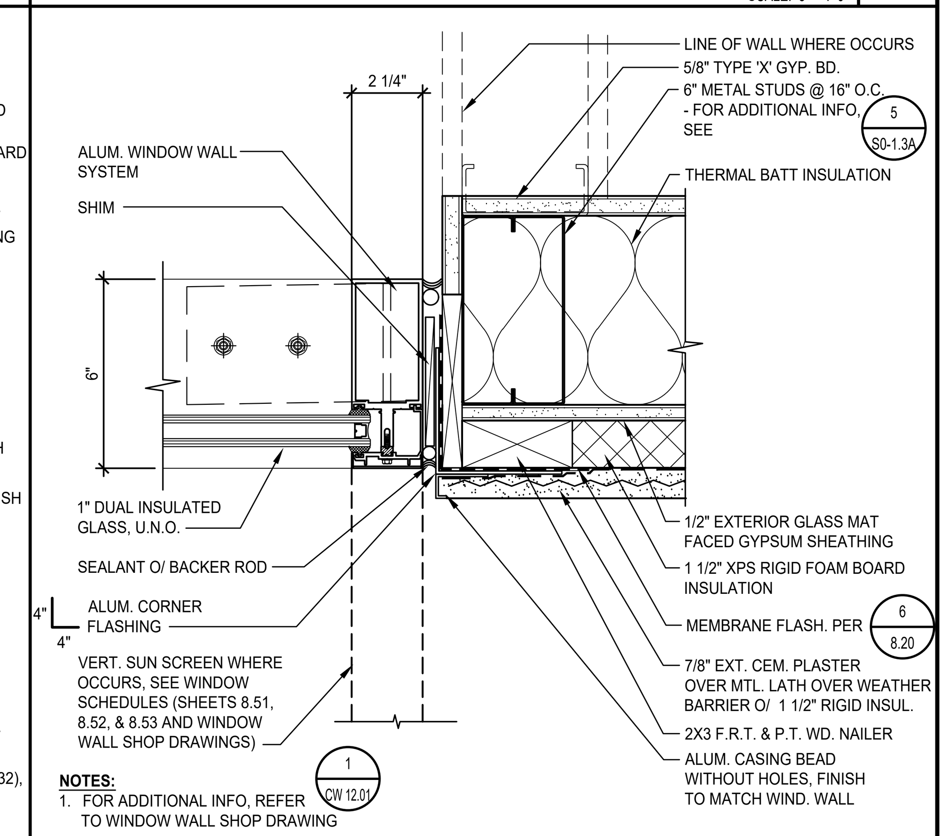
SLIDING INTERMEDIATE DOOR JAMB / CORNER - PLAN VIEW (AL 109) SCALE: 3" = 1'-0" 9



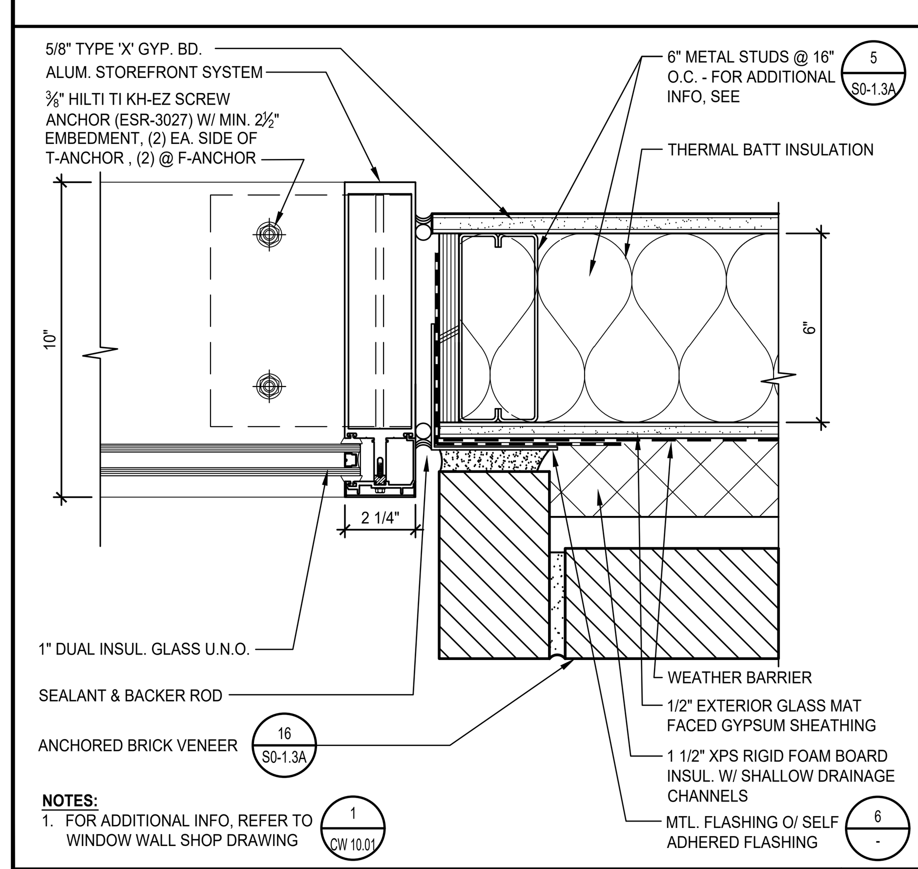
SLIDING DOOR SECTION (AL 101 & AL 109) SCALE: 3" = 1'-0" 10



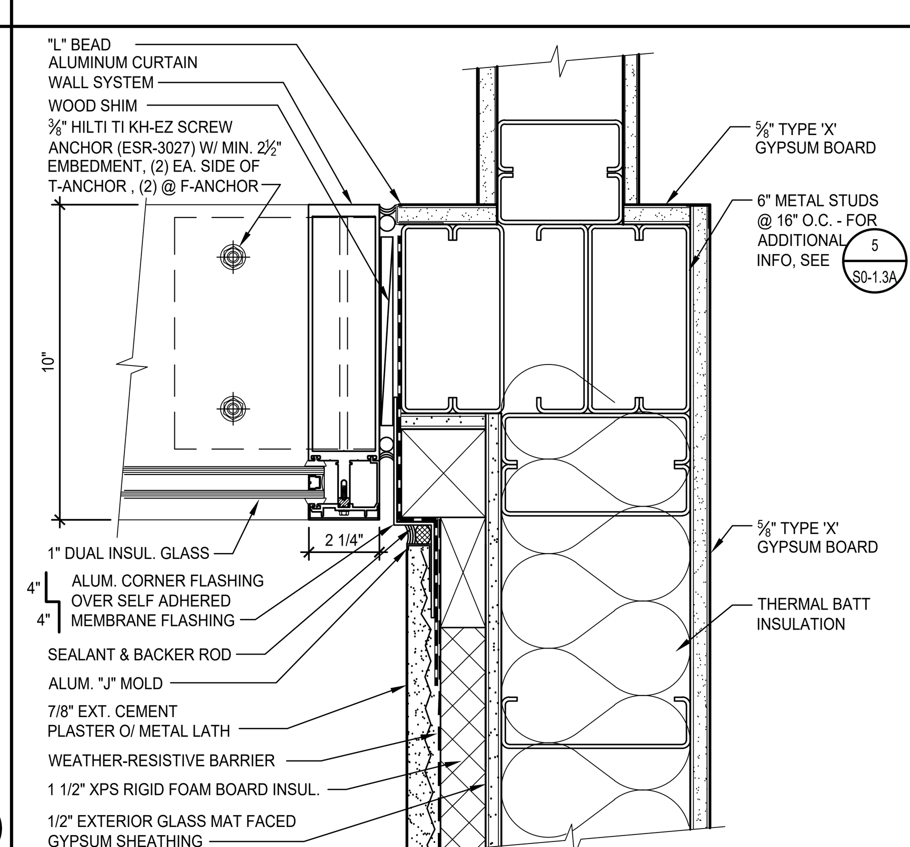
WINDOW WALL HEAD @ EXT. CEM. PLAST. SCALE: 3" = 1'-0" 14



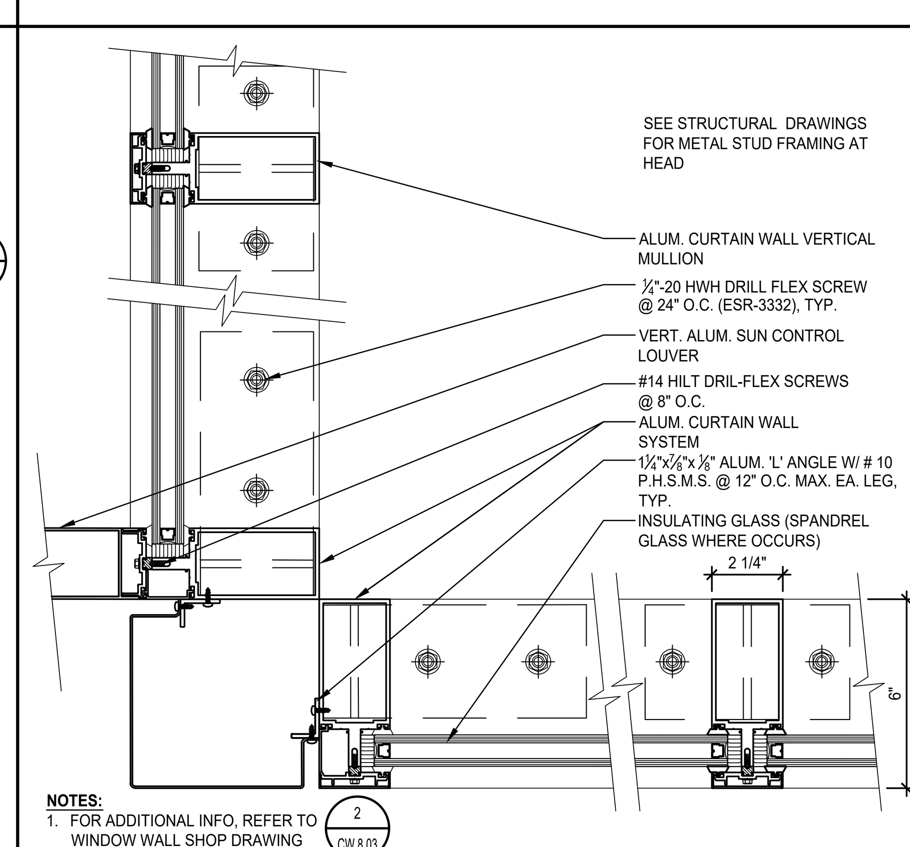
WINDOW WALL JAMB @ EXT. CEM. PLAST. SCALE: 3" = 1'-0" 15



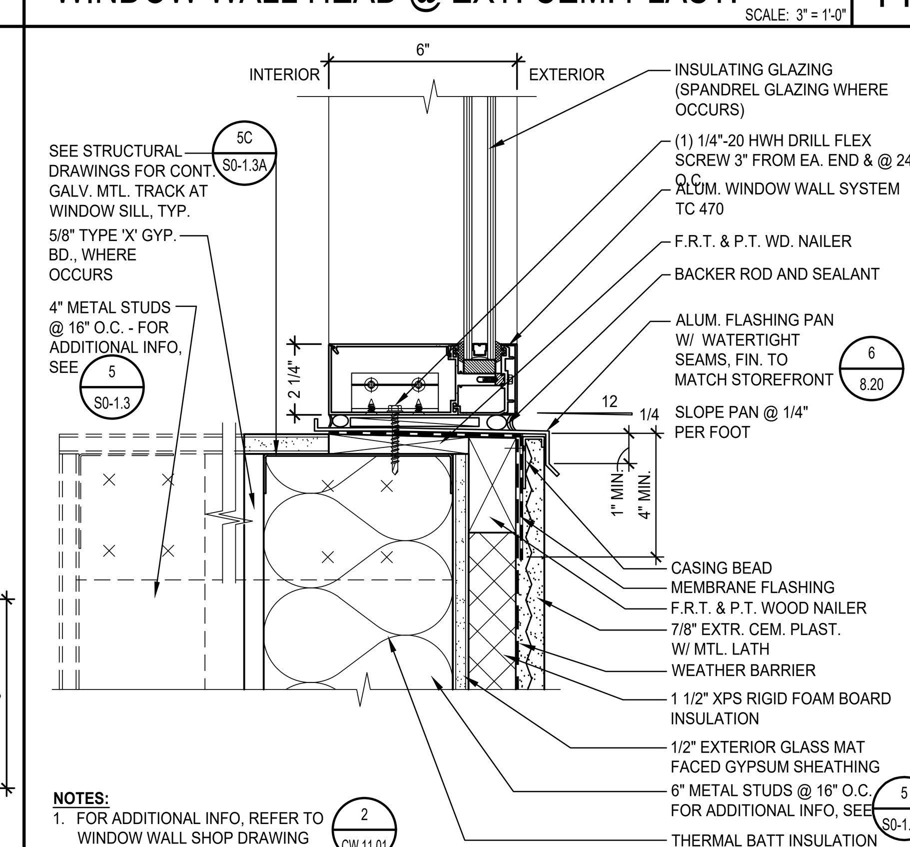
STOREFRONT JAMB @ BRICK VENEER SCALE: 3" = 1'-0" 16



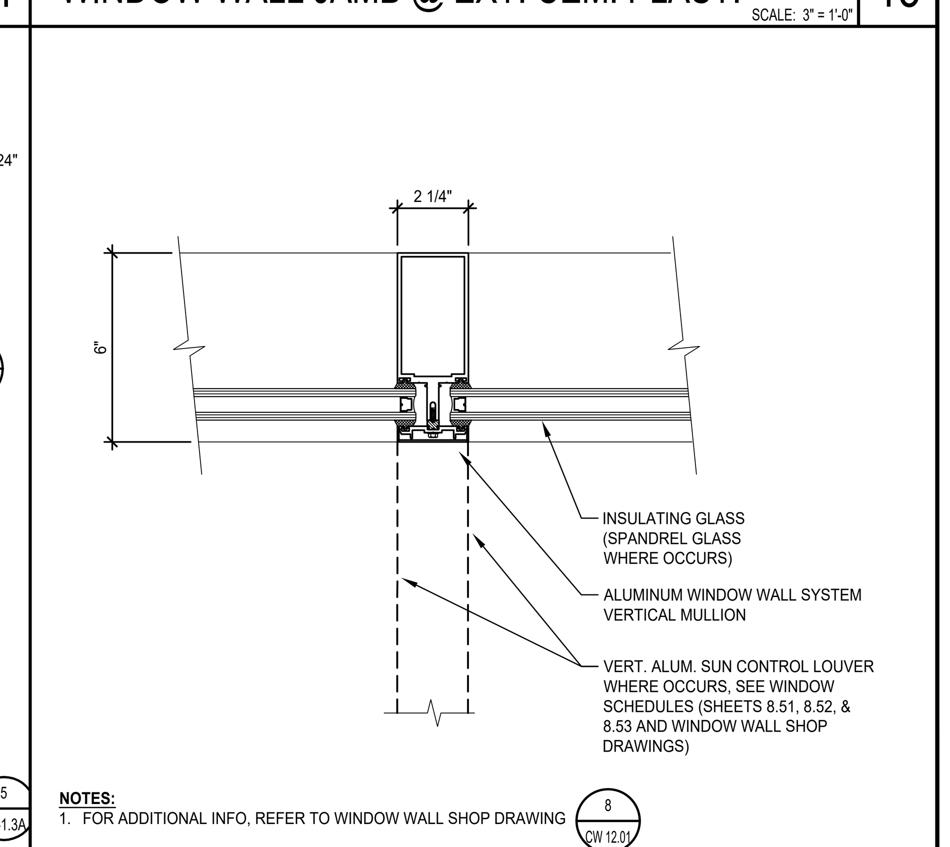
JAMB / CORNER - PLAN VIEW SCALE: 3" = 1'-0" 17



CURTAIN WALL CORNER SCALE: 3" = 1'-0" 18



WINDOW WALL SILL @ EXT. CEM. PLAST. SCALE: 3" = 1'-0" 19



WINDOW WALL INTERMEDIATE VERTICAL MULLION SCALE: 3" = 1'-0" 20

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consultant

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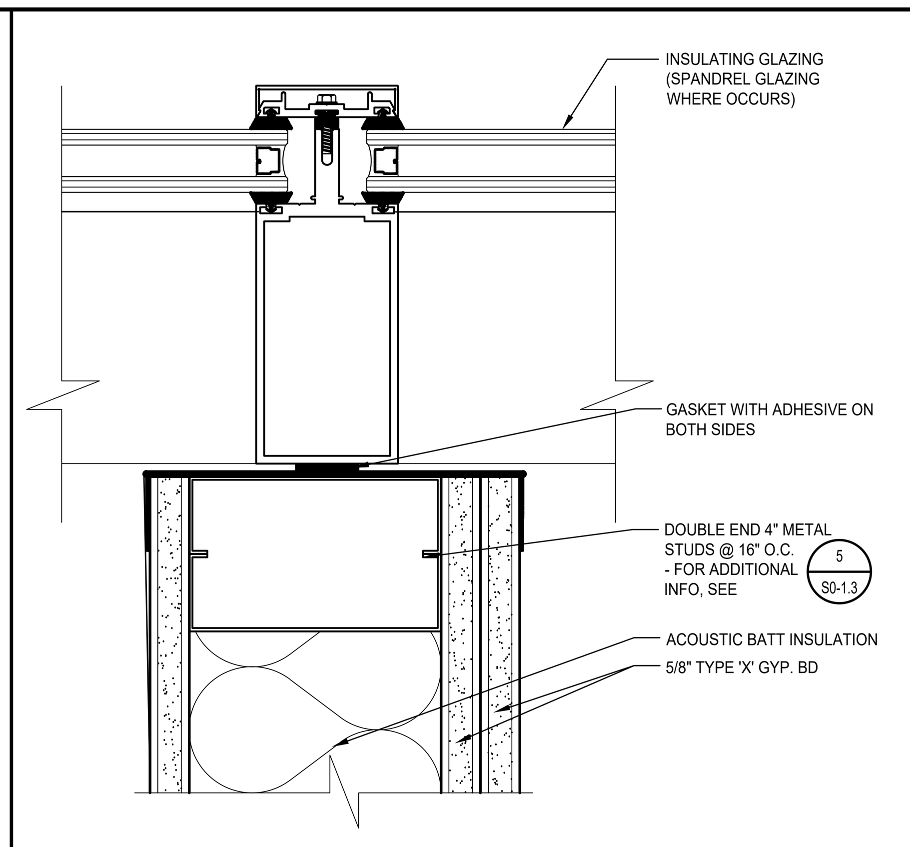
owner

tBP project number : 20987.00
file name: DTL-0820.DWG
drawn by: tBP checked by: T. HALL
date: 9.3.2019

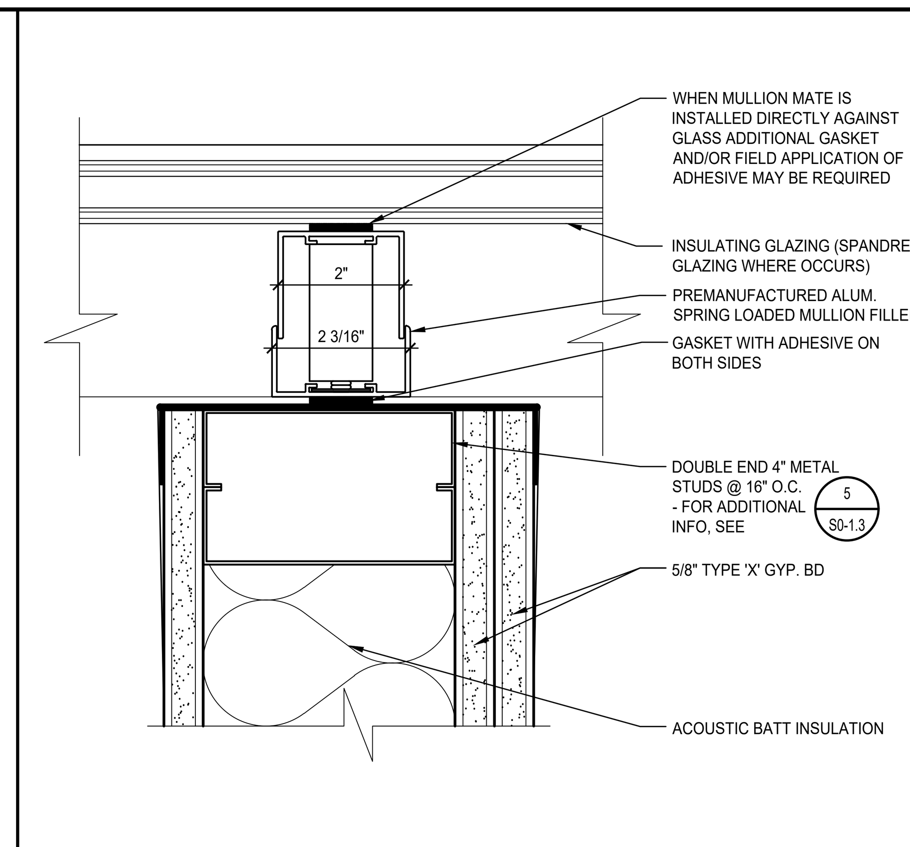
Rev: date: description:

drawing title:
WINDOW & CURTAIN WALL DETAILS

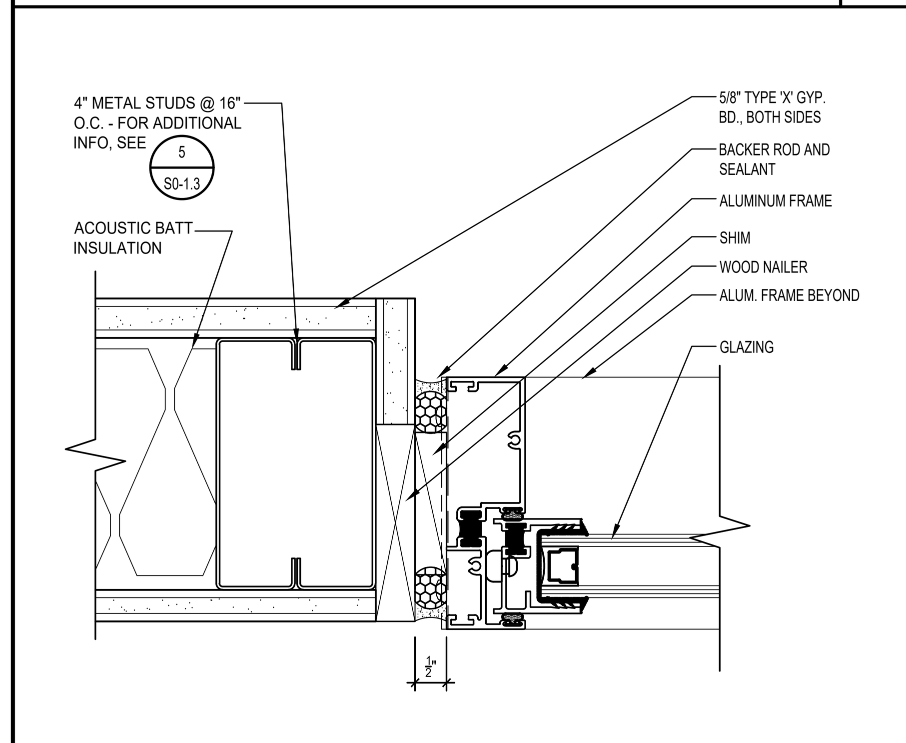
drawing no.:
8.20



WALL @ MULLION - PLAN 2
SCALE: 6" = 1'-0"

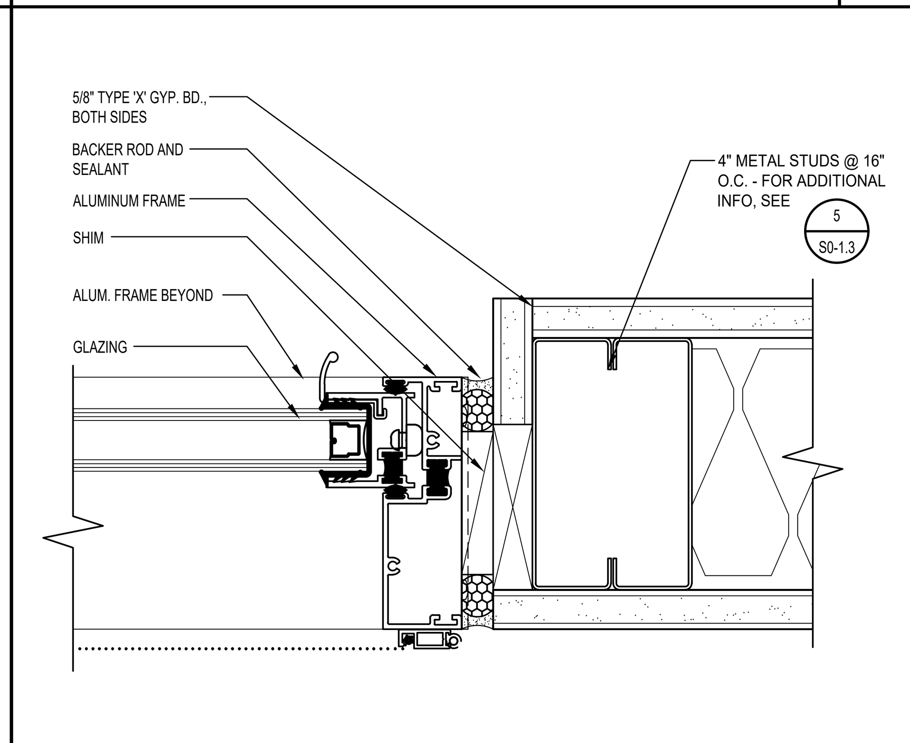


WALL @ MULLION MATE - PLAN 3
SCALE: 6" = 1'-0"



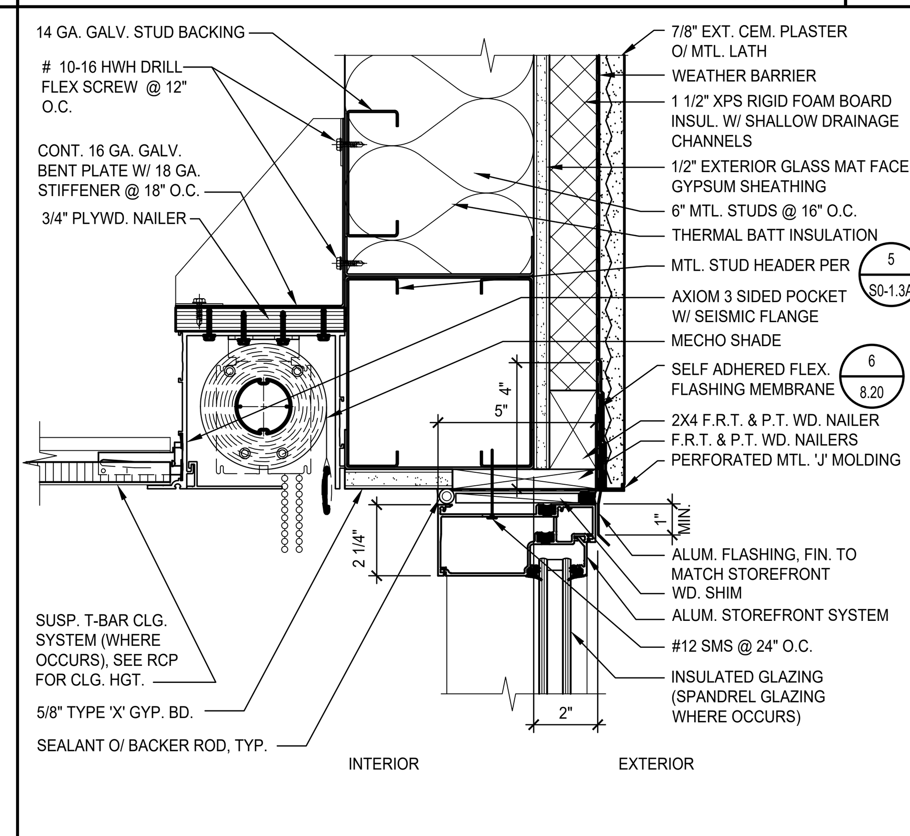
NOTES:
1. FOR ADDITIONAL INFO, REFER TO STOREFRONT SHOP DRAWING 3 CW 12.01

STOREFRONT JAMB @ FIXED TRANSACTION WINDOW 6
SCALE: 6" = 1'-0"

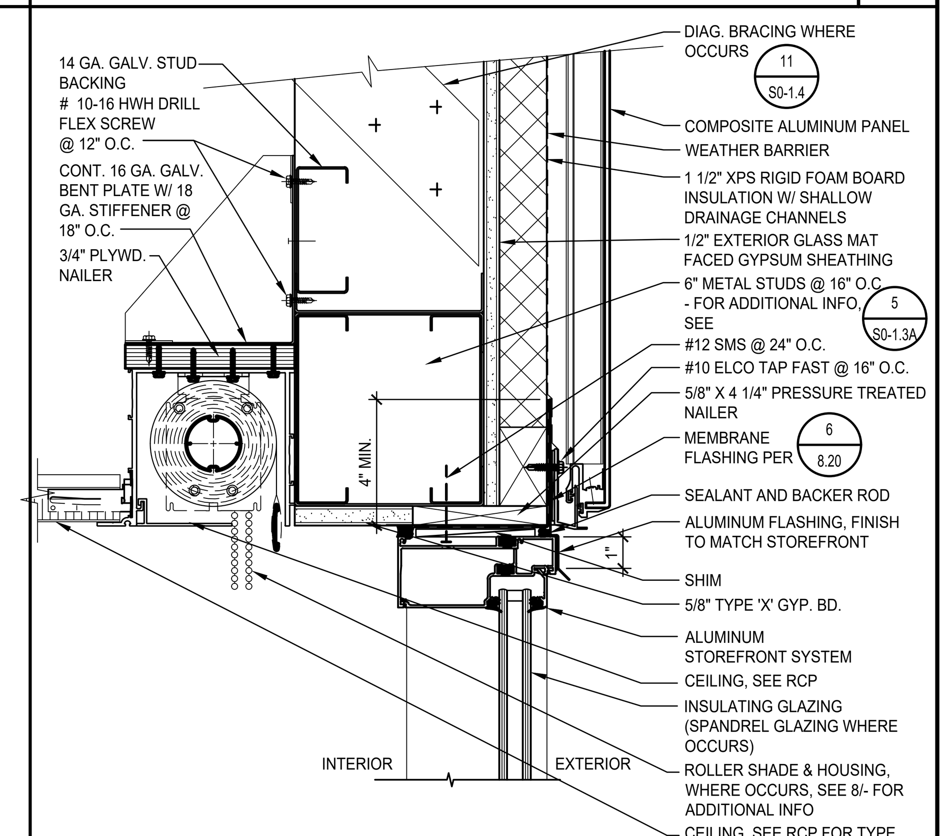


NOTES:
1. FOR ADDITIONAL INFO, REFER TO STOREFRONT SHOP DRAWING 7 CW 12.01

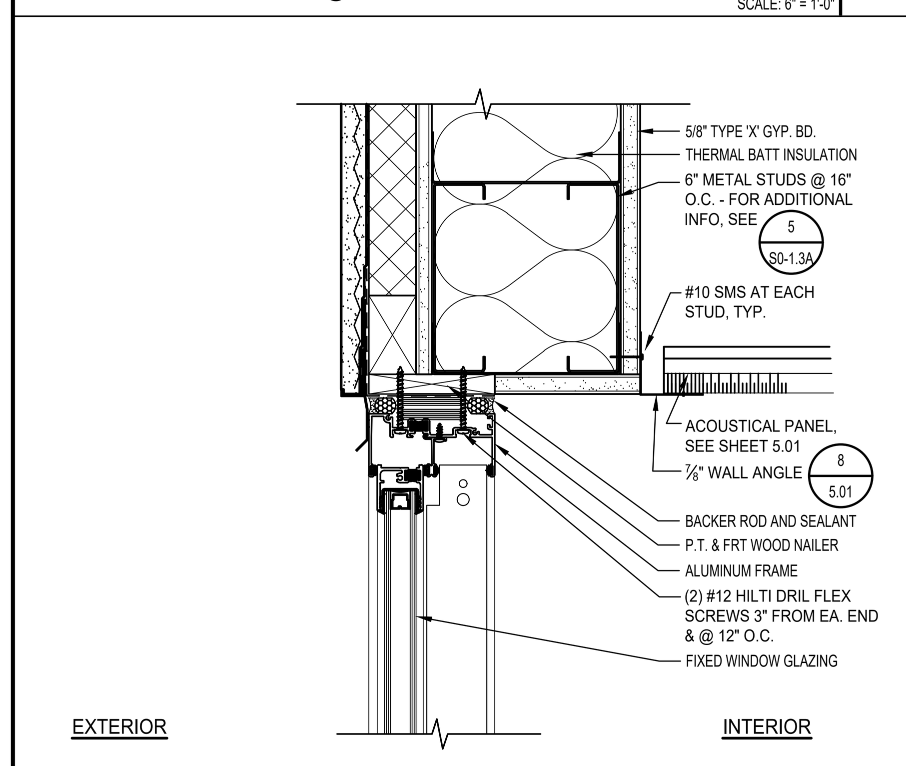
STOREFRONT JAMB @ SLIDING TRANSACTION WINDOW 7
SCALE: 6" = 1'-0"



STOREFRONT HEAD @ EXT. CEM. PLASTER 8
SCALE: 3" = 1'-0"

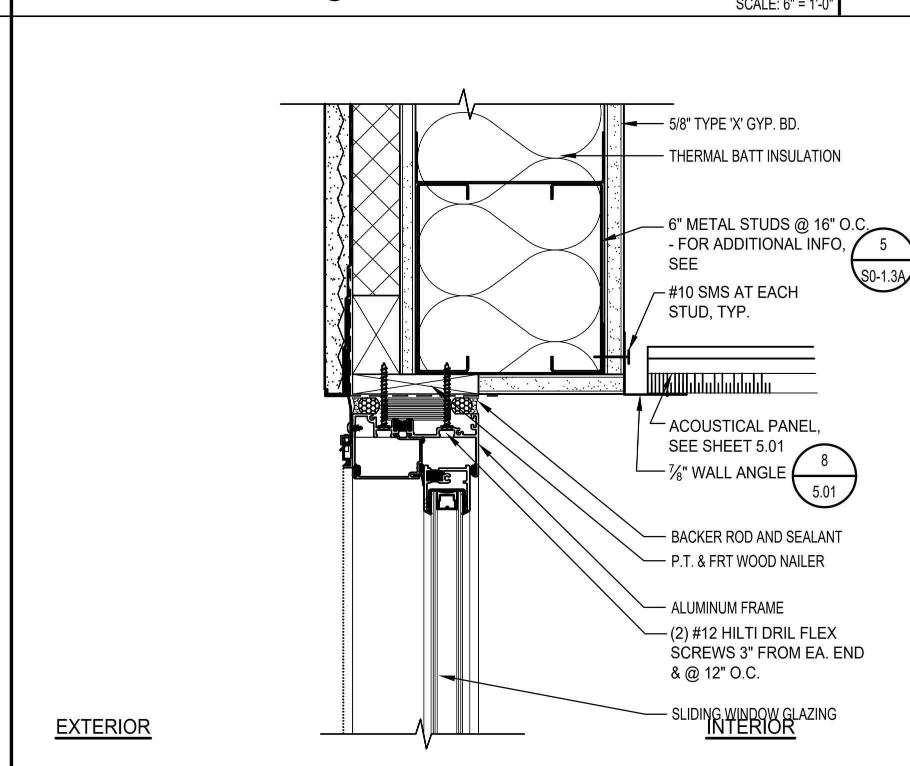


STOREFRONT HEAD @ ALUM. COMPOSITE PANEL 10
SCALE: 3" = 1'-0"



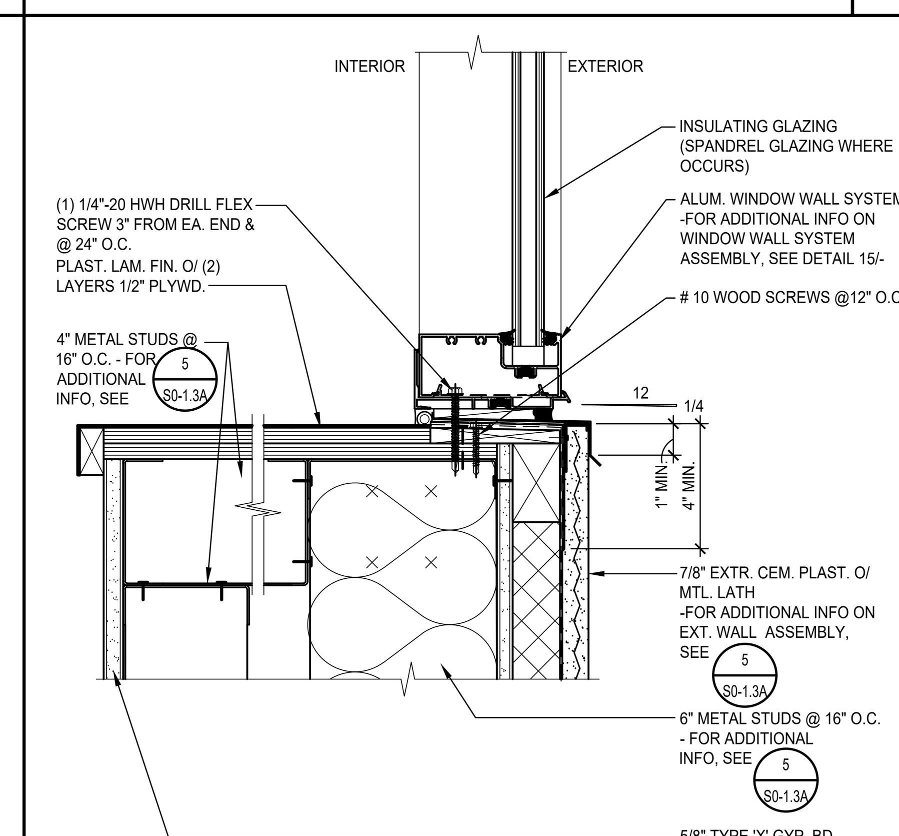
NOTES:
1. FOR ADDITIONAL INFO, REFER TO STOREFRONT SHOP DRAWING 1 CW 11.01

STOREFRONT HEAD @ FIXED TRANSACTION WINDOW 11
SCALE: 3" = 1'-0"

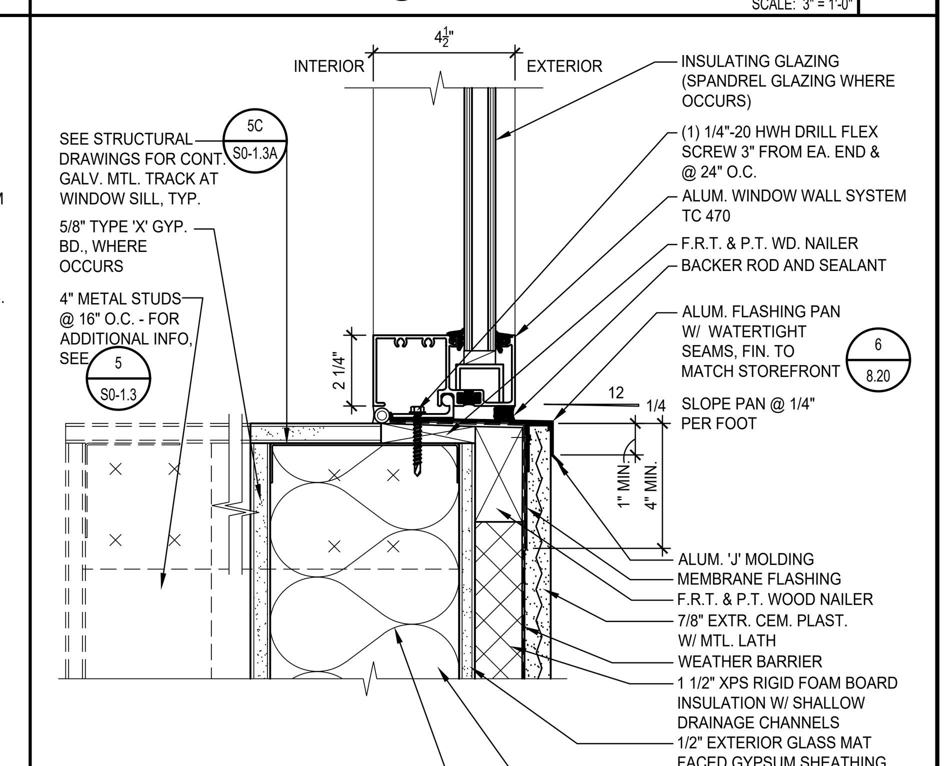


NOTES:
1. FOR ADDITIONAL INFO, REFER TO STOREFRONT SHOP DRAWING 3 CW 11.01

STOREFRONT HEAD @ SLIDING TRANSACTION WINDOW 12
SCALE: 3" = 1'-0"

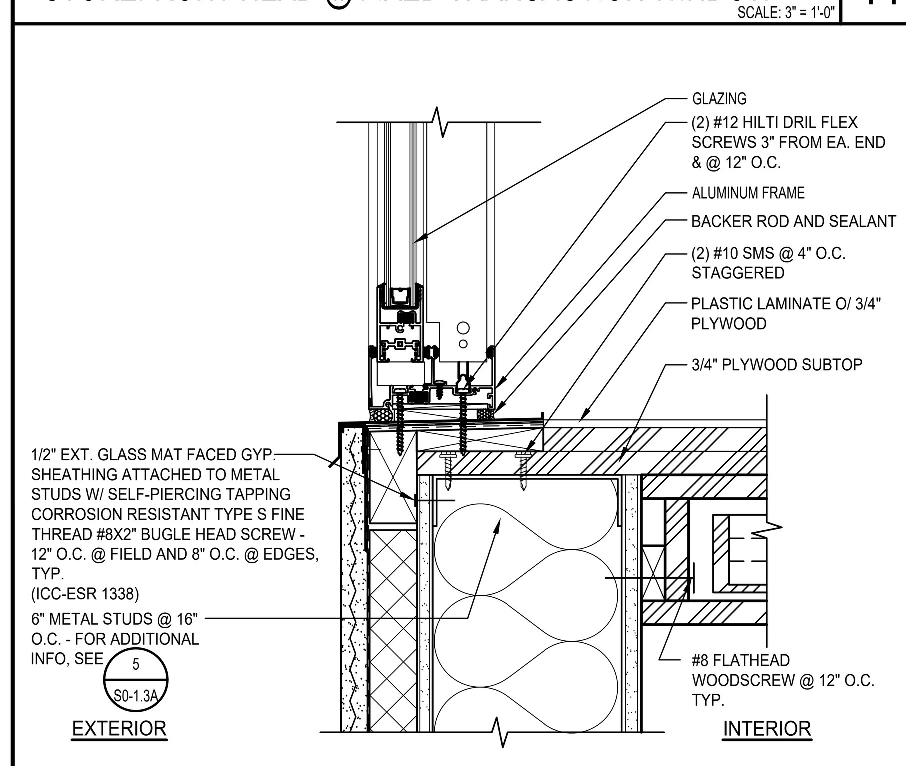


WINDOW WALL SILL/SHELF @ EXT. CEM. PLAST. 14
SCALE: 3" = 1'-0"



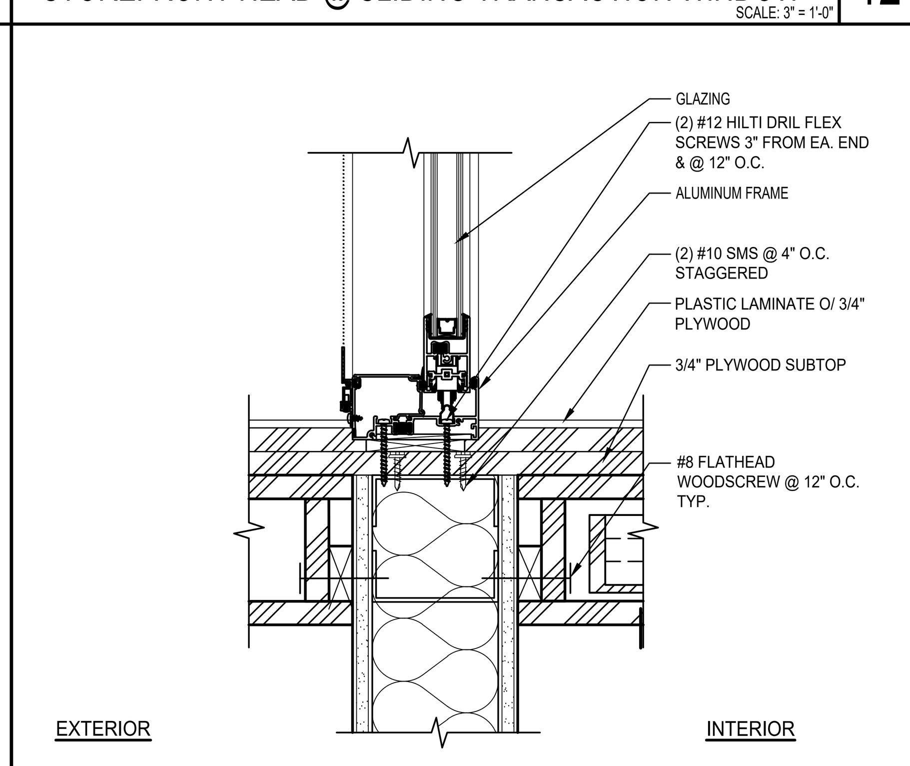
NOTES:
1. FOR ADDITIONAL INFO, REFER TO WINDOW WALL SHOP DRAWING 2 CW 11.01

WINDOW WALL SILL @ EXT. CEM. PLAST. 15
SCALE: 3" = 1'-0"



NOTES:
1. FOR ADDITIONAL INFO, REFER TO STOREFRONT SHOP DRAWING 2 CW 11.02

STOREFRONT SILL @ FIXED TRANSACTION WINDOW 16
SCALE: 3" = 1'-0"



NOTES:
1. FOR ADDITIONAL INFO, REFER TO STOREFRONT SHOP DRAWING 4 CW 11.02

STOREFRONT SILL @ SLIDING TRANSACTION WINDOW 17
SCALE: 3" = 1'-0"

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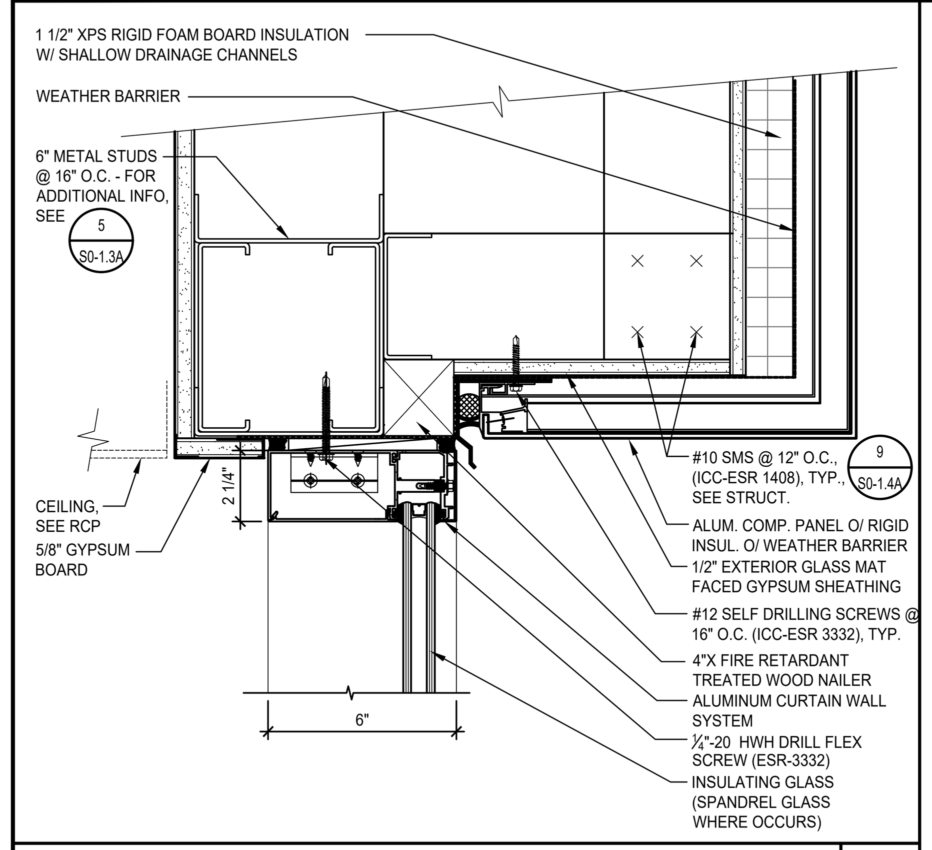
tBP project number : 20987.00
file name: DTL-0821.DWG
drawn by: tBP checked by: T. HALL
date: 9.3.2019

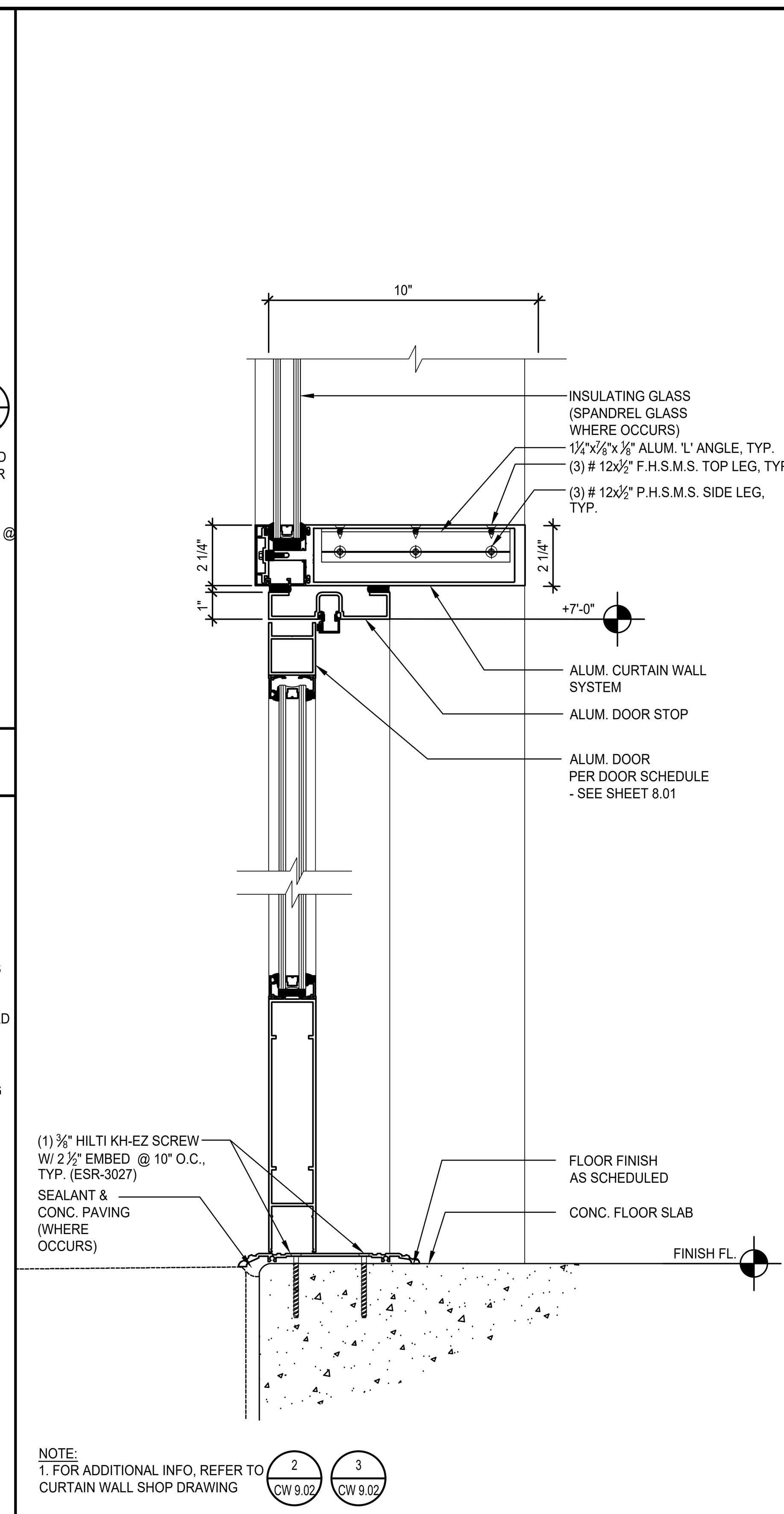
Rev:	date:	description:

drawing title:
STOREFRONT DETAILS

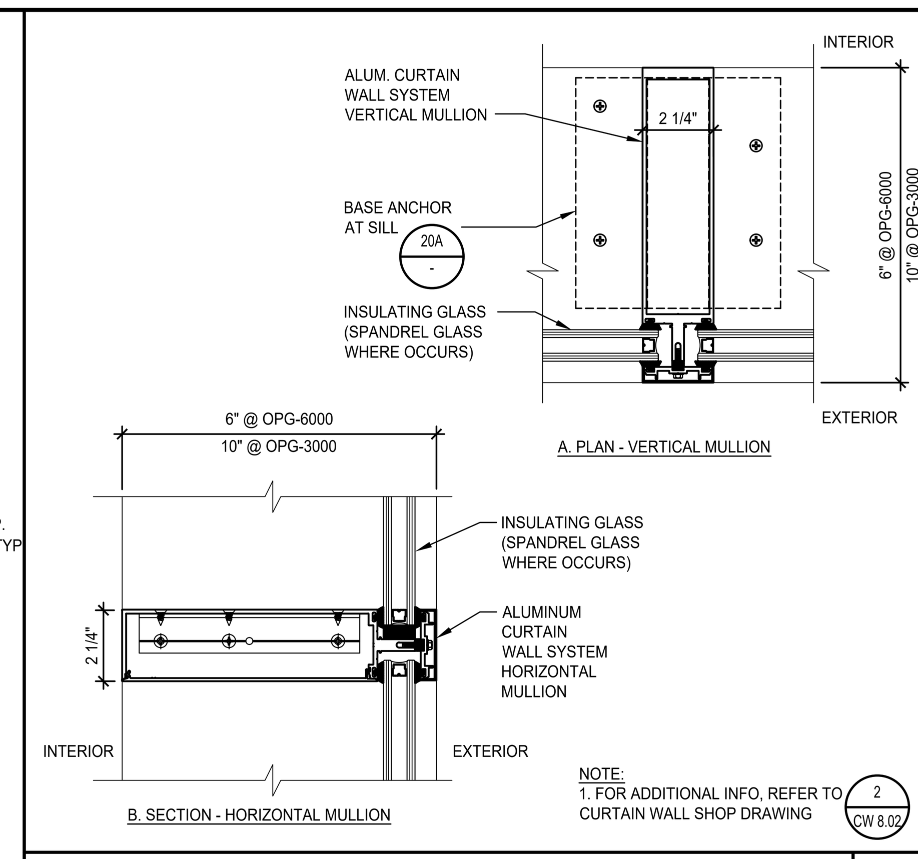
drawing no.:
8.21



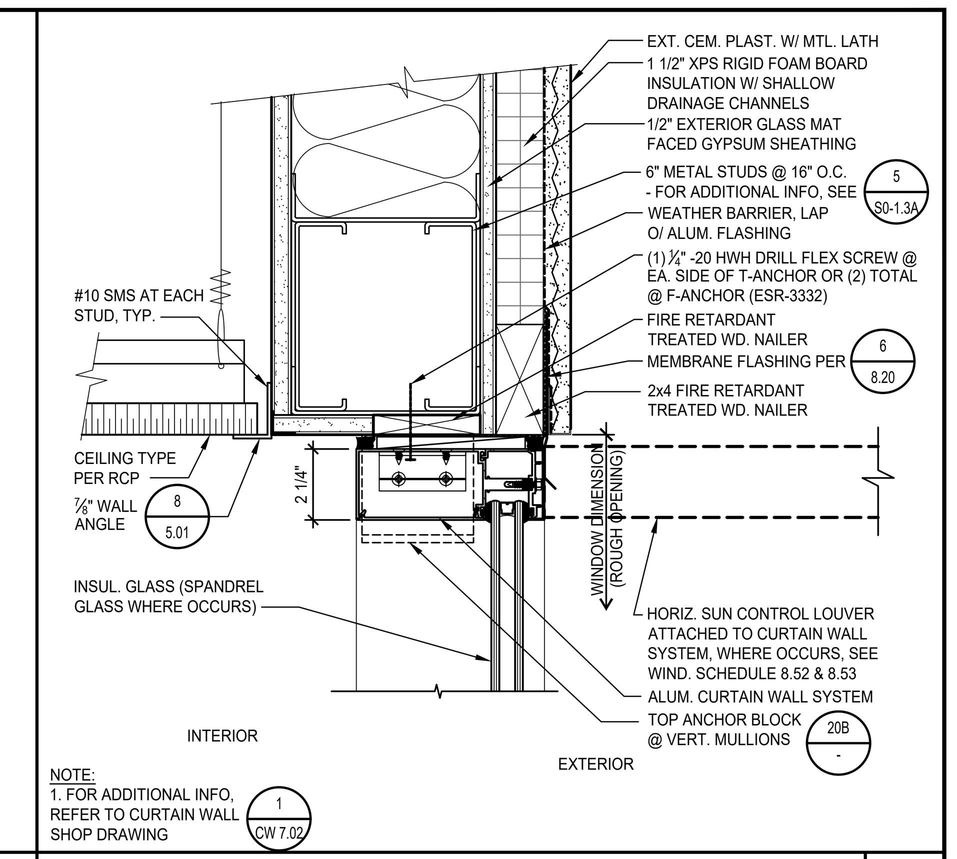
CURTAIN WALL HEAD @ ALUM. COMP. PANEL SOFFIT 1
SCALE: 3" = 1'-0"



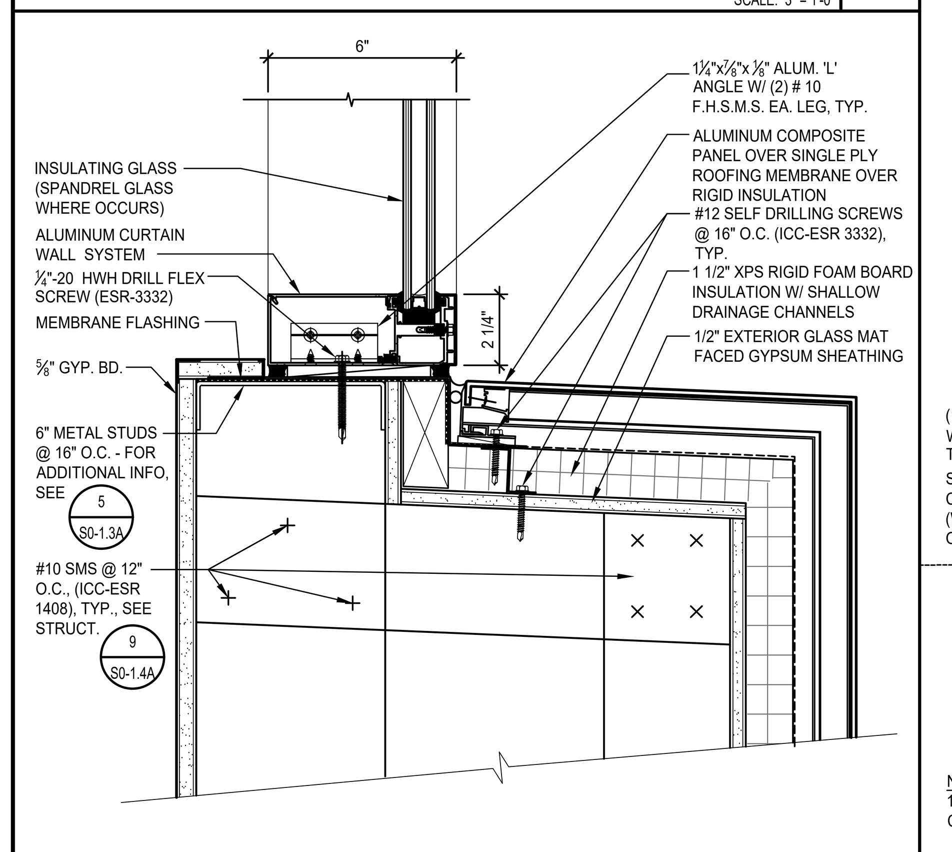
CURTAIN WALL DOOR HEAD & SILL 7
SCALE: 3" = 1'-0"



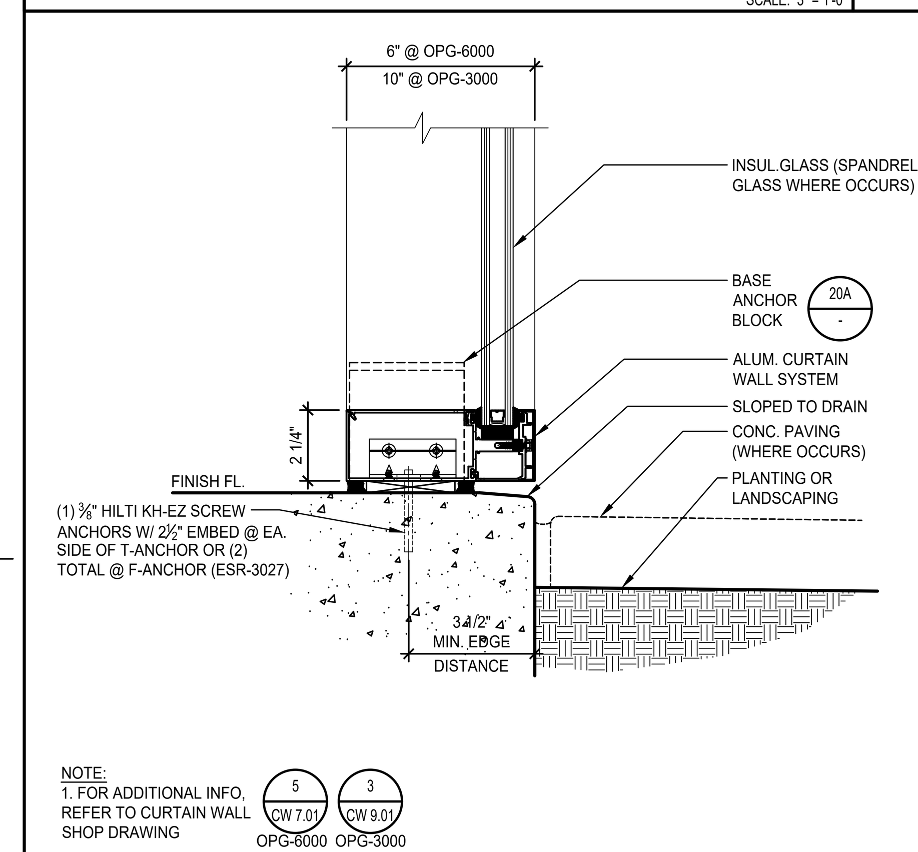
CURTAIN WALL VERTICAL / HORZ MULLION 3
SCALE: 3" = 1'-0"



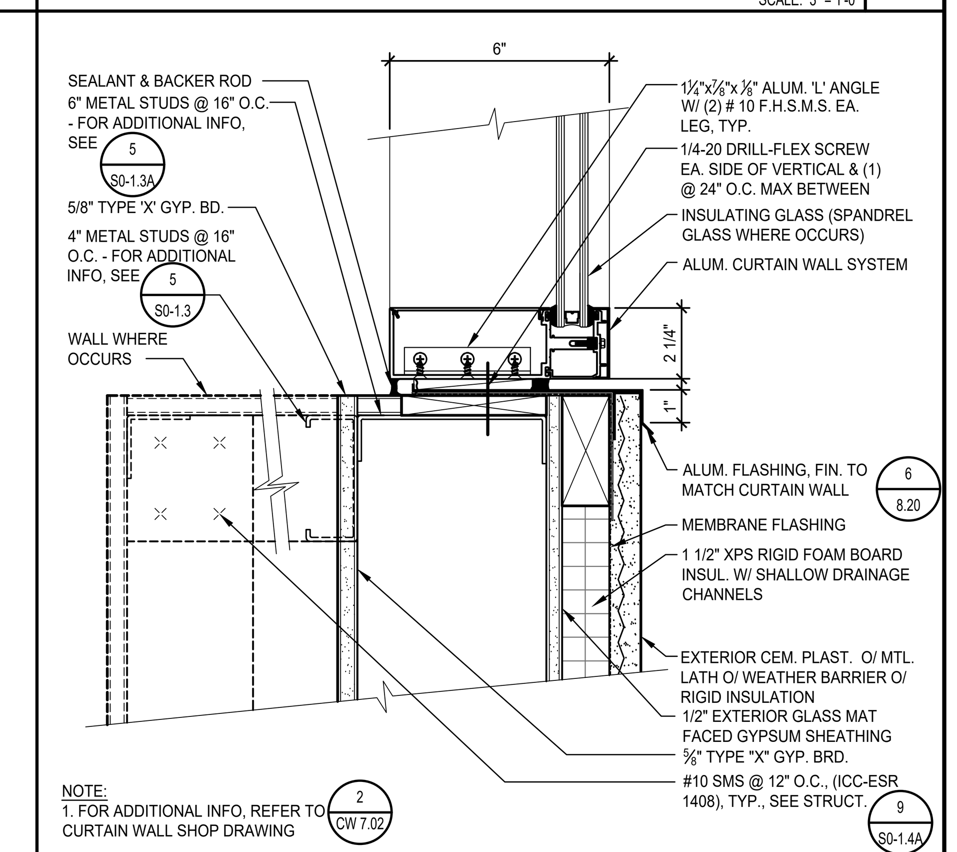
CURTAIN WALL HEAD @ EXT. CEMENT PLASTER 5
SCALE: 3" = 1'-0"



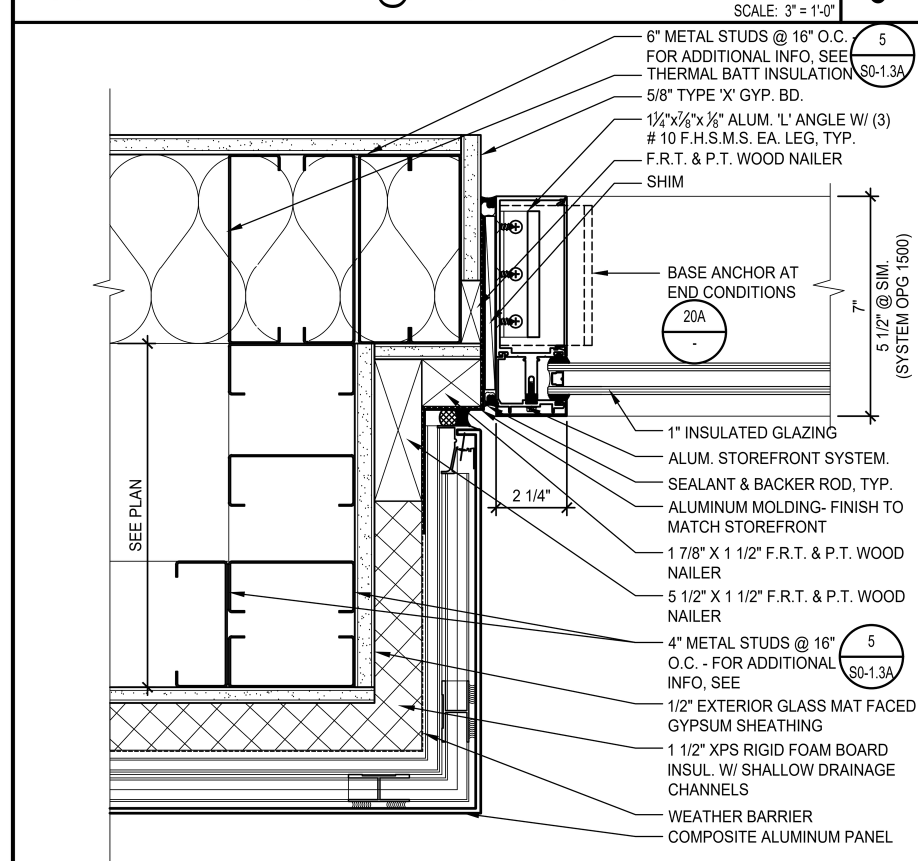
CURTAIN WALL SILL @ ALUM. COMP. PANEL 6
SCALE: 3" = 1'-0"



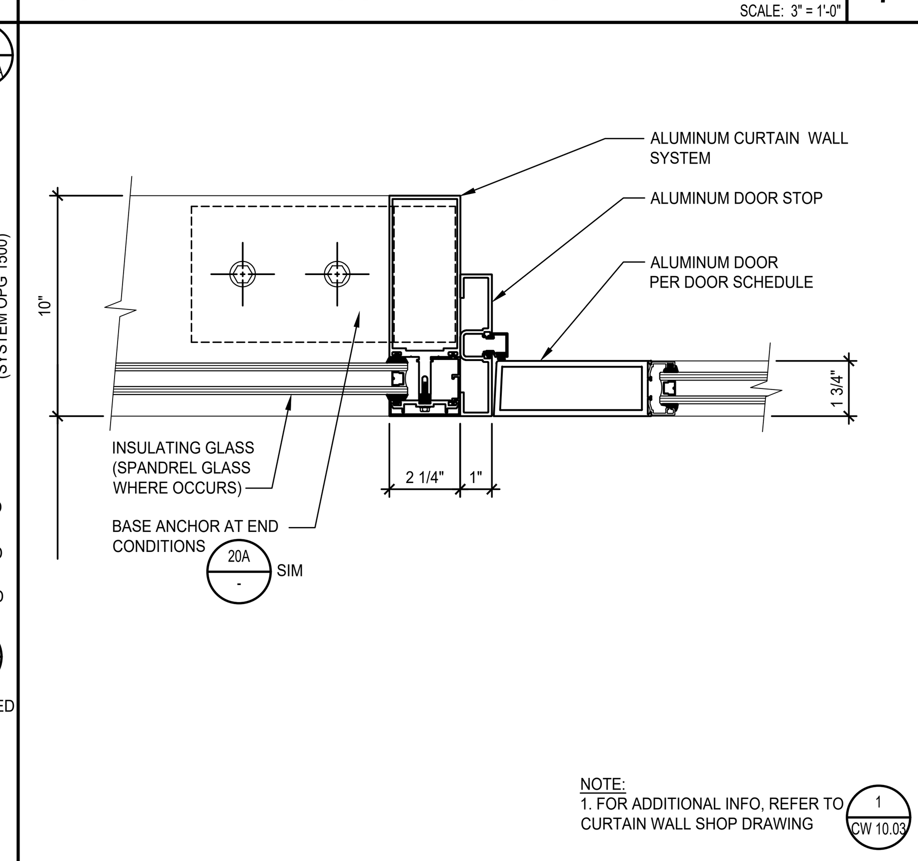
CURTAIN WALL SILL @ SLAB EDGE 8
SCALE: 3" = 1'-0"



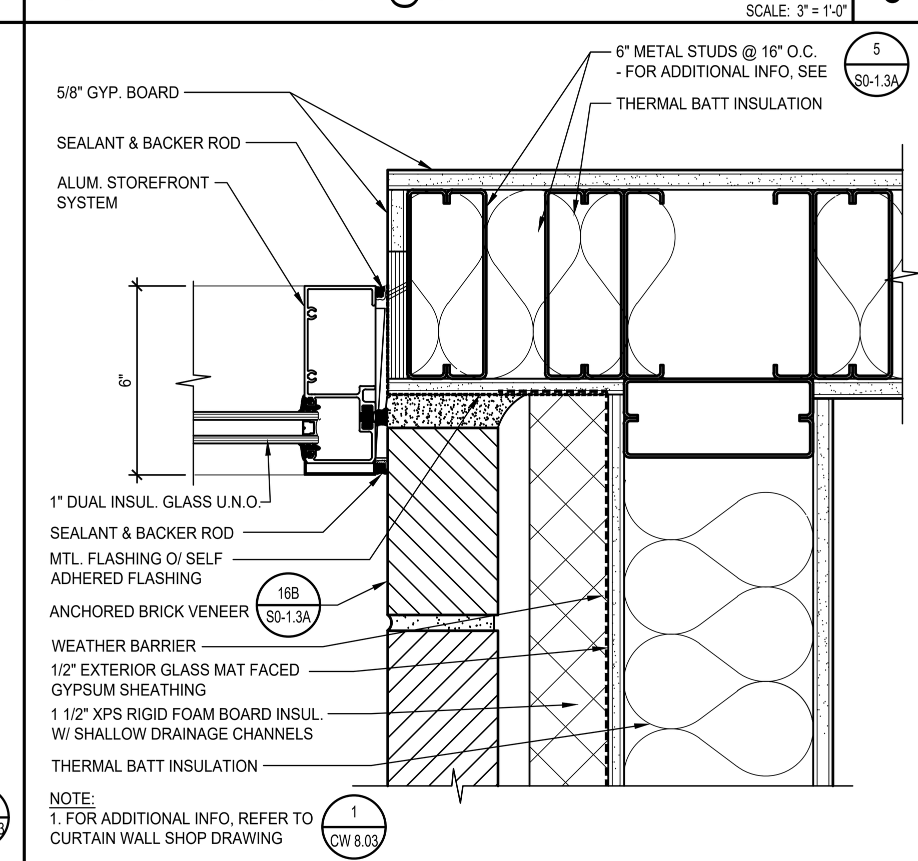
CURTAIN WALL SILL @ EXT. CEMENT PLASTER 10
SCALE: 3" = 1'-0"



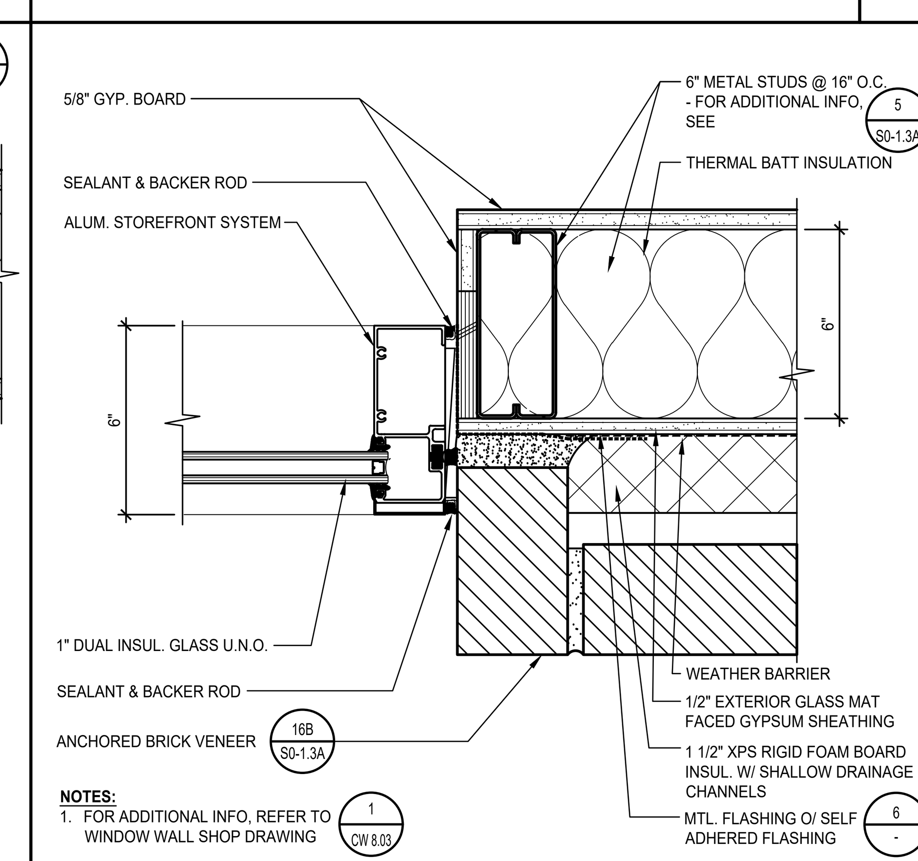
CURTAIN JAMB @ ALUM. COMP. PANEL 11
SCALE: 3" = 1'-0"



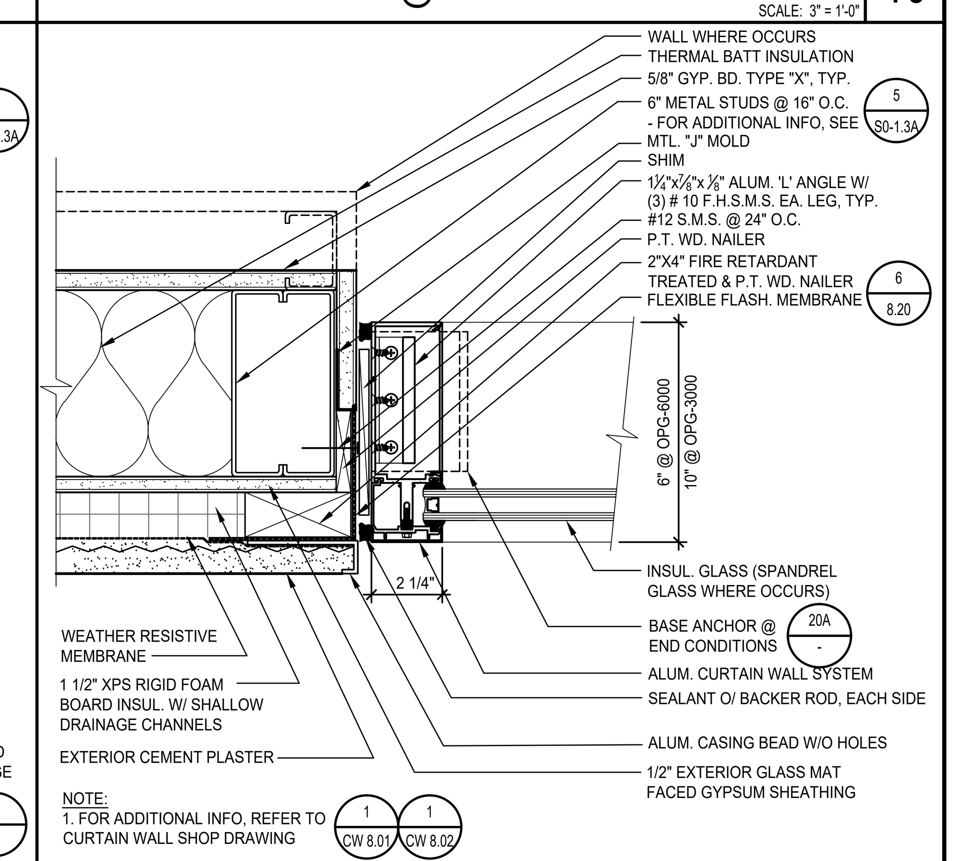
CURTAIN WALL DOOR JAMB 12
SCALE: 3" = 1'-0"



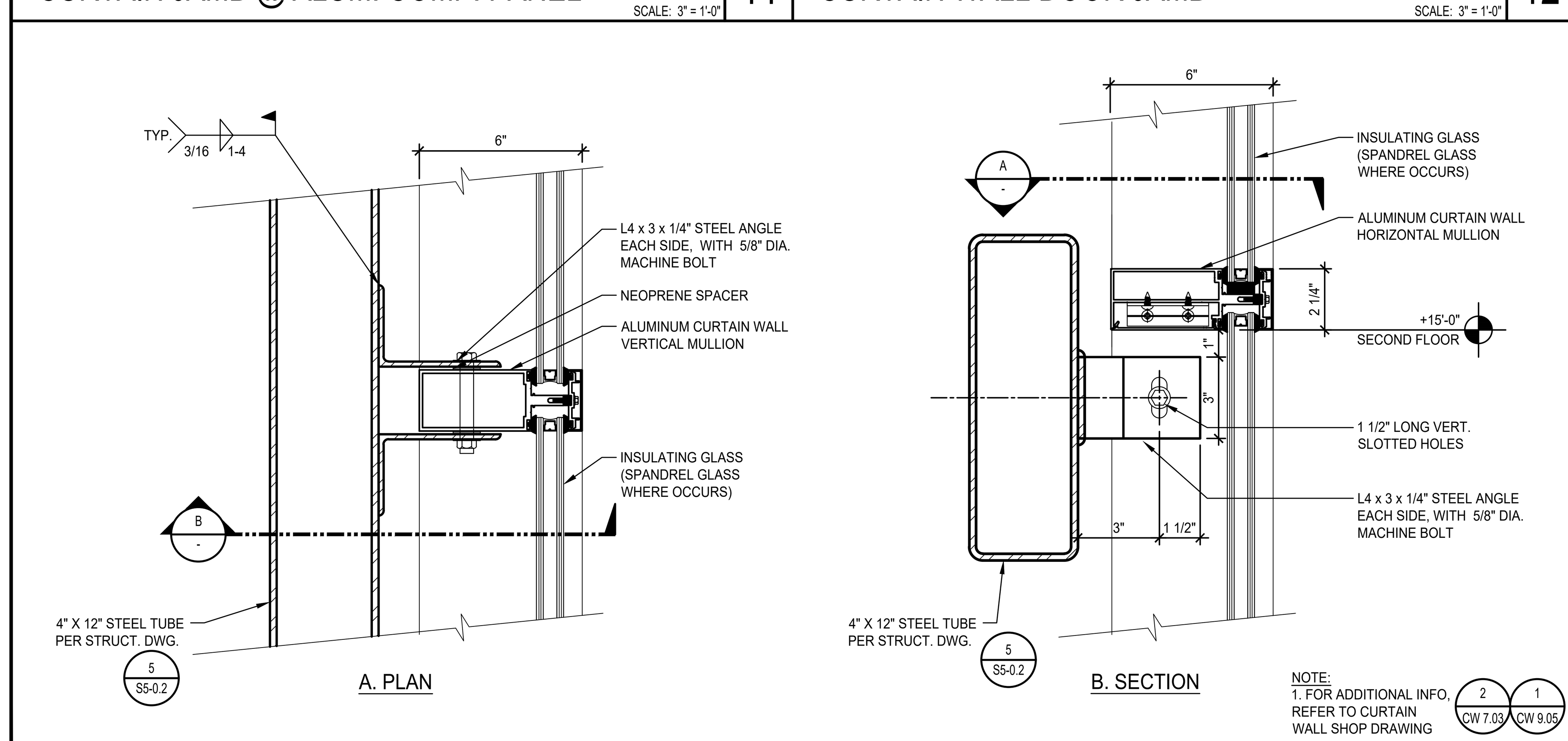
STOREFRONT JAMB @ BRICK VENEER 13
SCALE: 3" = 1'-0"



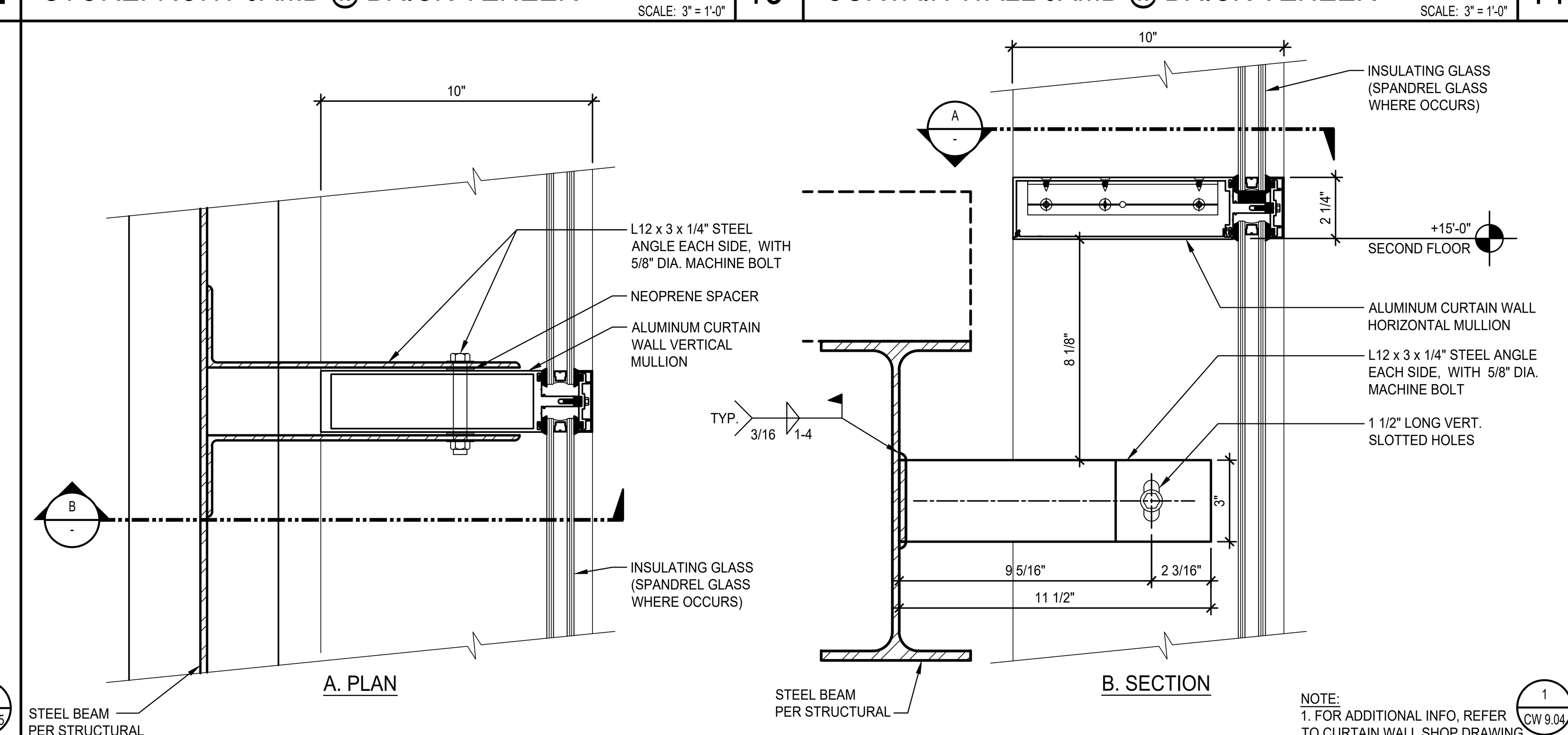
CURTAIN WALL JAMB @ BRICK VENEER 14
SCALE: 3" = 1'-0"



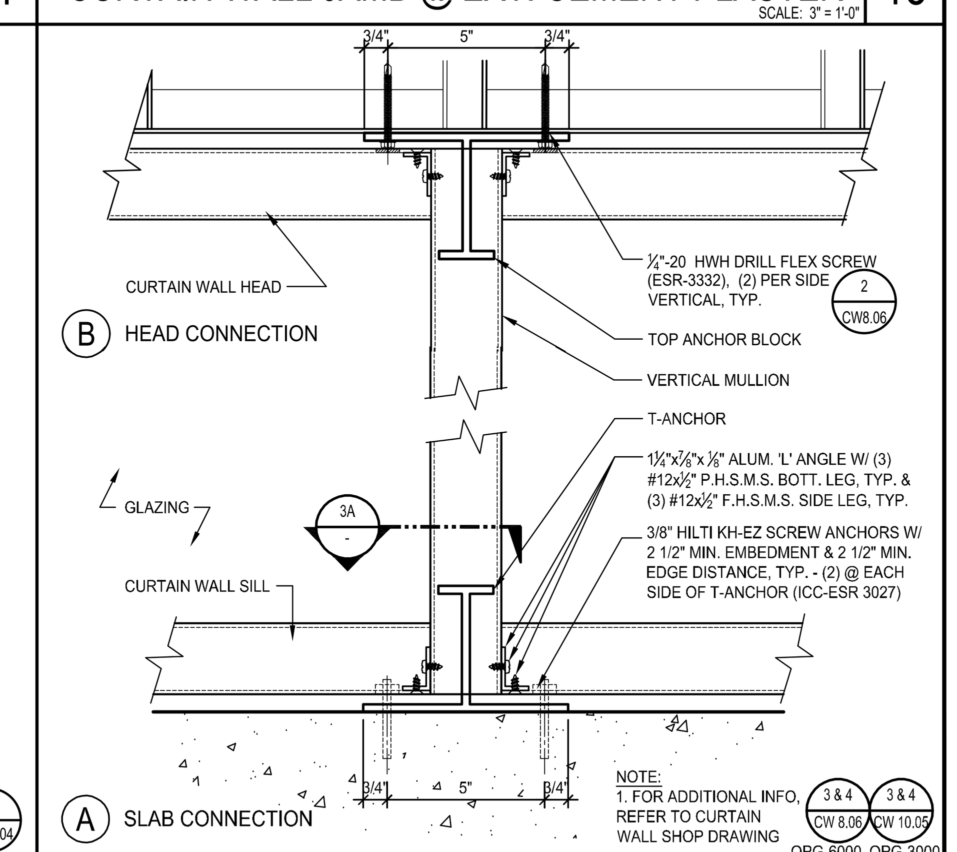
CURTAIN WALL JAMB @ EXT. CEMENT PLASTER 15
SCALE: 3" = 1'-0"



CURTAIN WALL MULLION AT STAIR LANDING SUPPORT 17
SCALE: 3" = 1'-0"



CURTAIN WALL MULLION AT UPPER FLOOR 19
SCALE: 3" = 1'-0"



CURTAIN WALL ANCHORAGE 20
SCALE: 3" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-119686 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/14/2019

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consultant

COMPTON COLLEGE STUDENT SERVICES BLDG.

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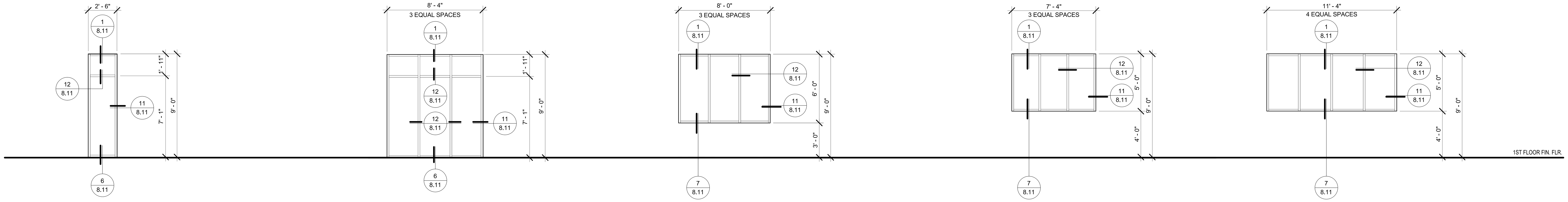
COMPTON, CA 90221

owner

tBP project number : 20987.00
file name: DTL-0822.DWG
drawn by: tBP checked by: T. HALL
date: 9.3.2019
Rev: date: description:

drawing title:
CURTAIN WALL DETAILS

drawing no.:
8.22



AL I 101	GLAZING TYPE	GL-3
	FRAME MATL.	ALUM.
	FRAME FIN.	F
	FRAME COLOR	AL-1

NOTES:
1. BASIS OF DESIGN: ARCADIA 1 3/4"x4" A400 SERIES CENTER-GLAZED.
2. FOR ADDITIONAL INFO, REFER TO INTERIOR STOREFRONT SHOP DRAWING 101A CW 6.01

AL I 103	GLAZING TYPE	GL-3
	FRAME MATL.	ALUM.
	FRAME FIN.	F
	FRAME COLOR	AL-1

NOTES:
1. BASIS OF DESIGN: ARCADIA 1 3/4"x4" A400 SERIES CENTER-GLAZED.
2. FOR ADDITIONAL INFO, REFER TO INTERIOR STOREFRONT SHOP DRAWING 103A CW 6.01

AL I 104	GLAZING TYPE	GL-3
	FRAME MATL.	ALUM.
	FRAME FIN.	F
	FRAME COLOR	AL-1

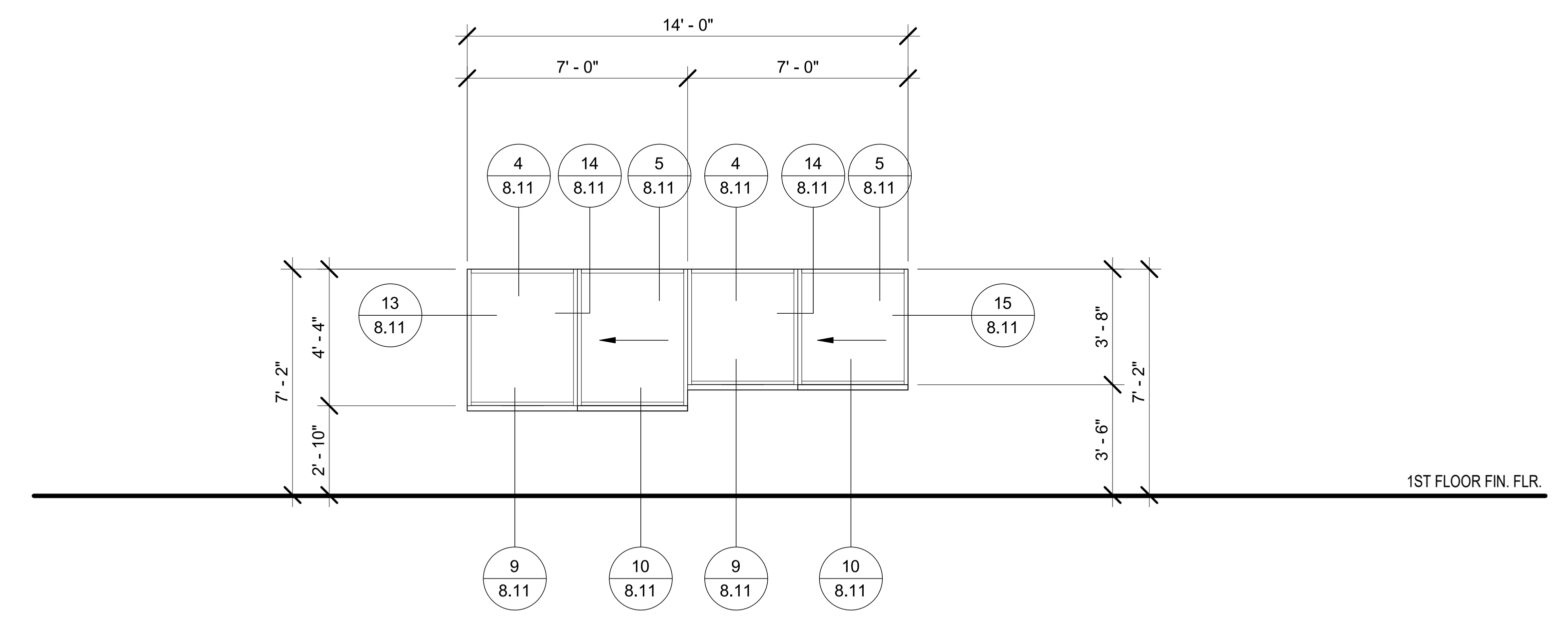
NOTES:
1. BASIS OF DESIGN: ARCADIA 1 3/4"x4" A400 SERIES CENTER-GLAZED.
2. FOR ADDITIONAL INFO, REFER TO INTERIOR STOREFRONT SHOP DRAWING 104A CW 6.01

ALI 105	GLAZING TYPE	GL-3
	FRAME MATL.	ALUM.
	FRAME FIN.	F
	FRAME COLOR	AL-1

NOTES:
1. BASIS OF DESIGN: ARCADIA 1 3/4"x4" A400 SERIES CENTER-GLAZED.
2. FOR ADDITIONAL INFO, REFER TO INTERIOR STOREFRONT SHOP DRAWING - -

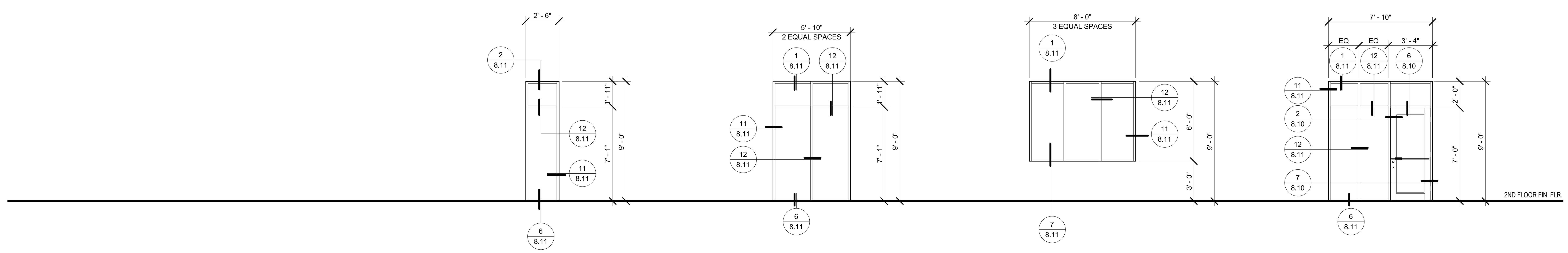
ALI 106	GLAZING TYPE	GL-3
	FRAME MATL.	ALUM.
	FRAME FIN.	F
	FRAME COLOR	AL-1

NOTES:
1. BASIS OF DESIGN: ARCADIA 1 3/4"x4" A400 SERIES CENTER-GLAZED.
2. FOR ADDITIONAL INFO, REFER TO INTERIOR STOREFRONT SHOP DRAWING - -



AL I 108	GLAZING TYPE	GL-3
	FRAME MATL.	2 1/8"x4" ALUM.
	FRAME FIN.	F
	FRAME COLOR	AL-1

AL I 115	GLAZING TYPE	GL-3
	FRAME MATL.	2 1/8"x4" ALUM.
	FRAME FIN.	F
	FRAME COLOR	AL-1



AL I 201	GLAZING TYPE	GL-3
	FRAME MATL.	ALUM.
	FRAME FIN.	F
	FRAME COLOR	AL-1

NOTES:
1. BASIS OF DESIGN: ARCADIA 1 3/4"x4" A400 SERIES CENTER-GLAZED.
2. FOR ADDITIONAL INFO, REFER TO INTERIOR STOREFRONT SHOP DRAWING 201 CW 6.01

AL I 204	GLAZING TYPE	GL-3
	FRAME MATL.	ALUM.
	FRAME FIN.	F
	FRAME COLOR	AL-1

NOTES:
1. BASIS OF DESIGN: ARCADIA 1 3/4"x4" A400 SERIES CENTER-GLAZED.
2. FOR ADDITIONAL INFO, REFER TO INTERIOR STOREFRONT SHOP DRAWING - -

AL I 203	GLAZING TYPE	GL-3
	FRAME MATL.	ALUM.
	FRAME FIN.	F
	FRAME COLOR	AL-1

NOTES:
1. BASIS OF DESIGN: ARCADIA 1 3/4"x4" A400 SERIES CENTER-GLAZED.
2. FOR ADDITIONAL INFO, REFER TO INTERIOR STOREFRONT SHOP DRAWING 203 CW 6.01

ALI 205	GLAZING TYPE	GL-3
	FRAME MATL.	ALUM.
	FRAME FIN.	F
	FRAME COLOR	AL-1

NOTES:
1. BASIS OF DESIGN: ARCADIA 1 3/4"x4" A400 SERIES CENTER-GLAZED.
2. FOR ADDITIONAL INFO, REFER TO INTERIOR STOREFRONT SHOP DRAWING - -

SEE SHEET 8.53 FOR GLAZING SCHEDULE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-119686 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/14/2019

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COMPTON COLLEGE STUDENT SERVICES BLDG.

COMPTON COMMUNITY COLLEGE DISTRICT
1111 E. ARTESIA BLVD.
COMPTON, CA 90221

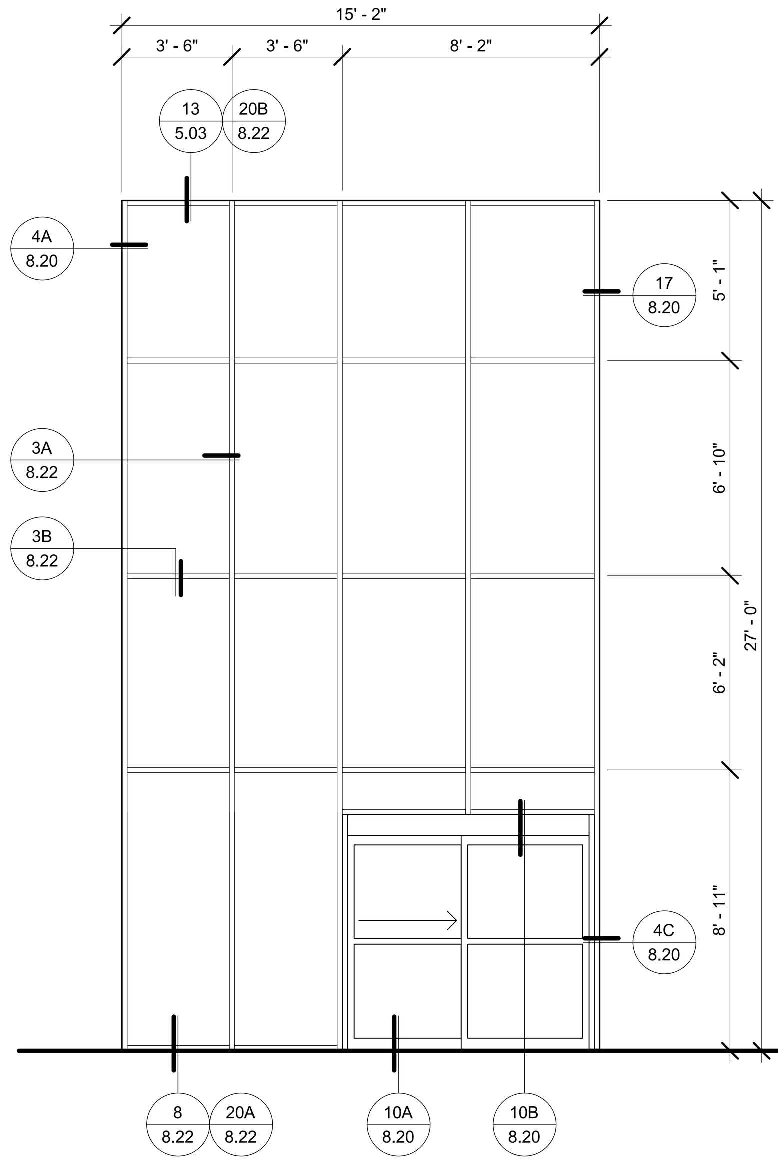
owner

tBP project number: 20987.00
file name: CC_SS_Central.RVT
drawn by: Z. WEN checked by: T. HALL
date: 9.3.2019

rev:	date:	description:

drawing title:
WINDOW SCHEDULE - INTERIOR

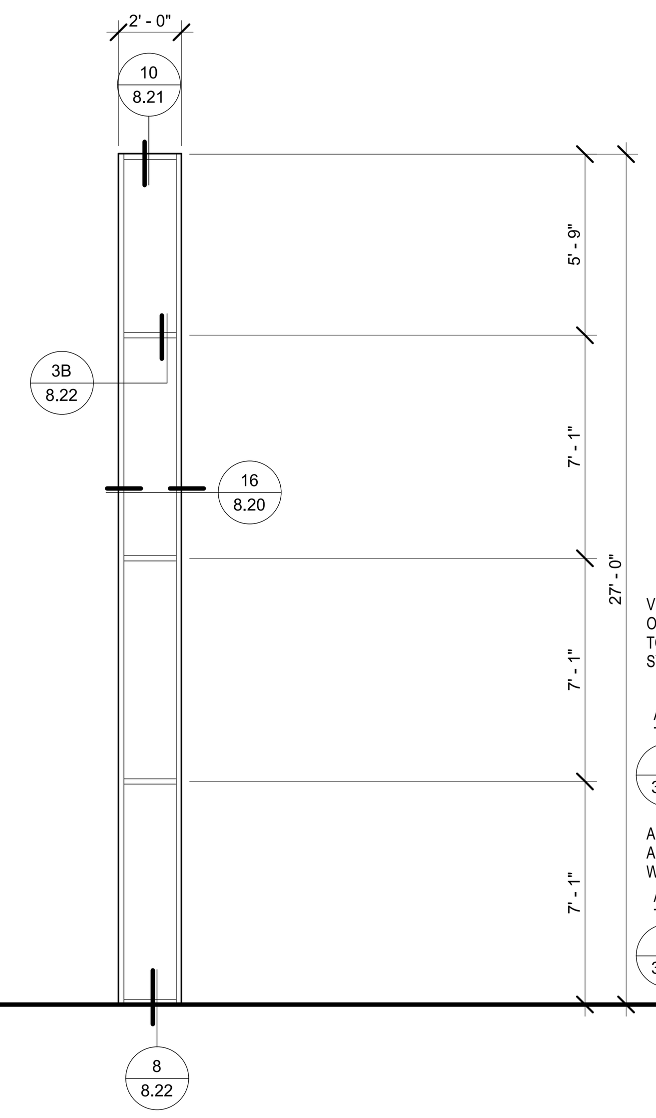
drawing no.:
8.51



AL 101	GLAZING TYPE	GL-1
	FRAME MATL.	ALUM.
	FRAME FIN.	F
	FRAME COLOR	AL-1

NOTES:
1. BASIS OF DESIGN: ARCADIA 2 1/4"x10" T500-OPG-3000 SERIES.
2. FOR ADDITIONAL INFO, REFER TO CURTAIN WALL SHOP DRAWING

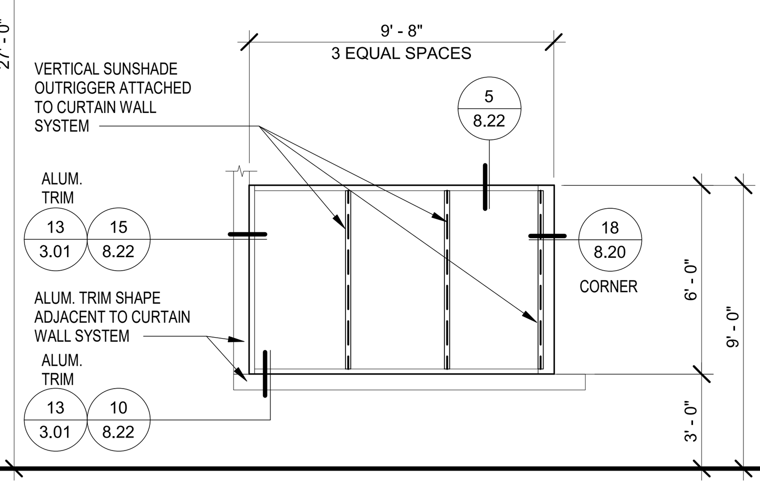
101 CW 4.01



AL 102	GLAZING TYPE	G-1
	FRAME MATL.	ALUM.
	FRAME FIN.	F
	FRAME COLOR	AL-1

NOTES:
1. BASIS OF DESIGN: ARCADIA 2 1/4"x6" T500-OPG-6000 SERIES.
2. FOR ADDITIONAL INFO, REFER TO CURTAIN WALL SHOP DRAWING

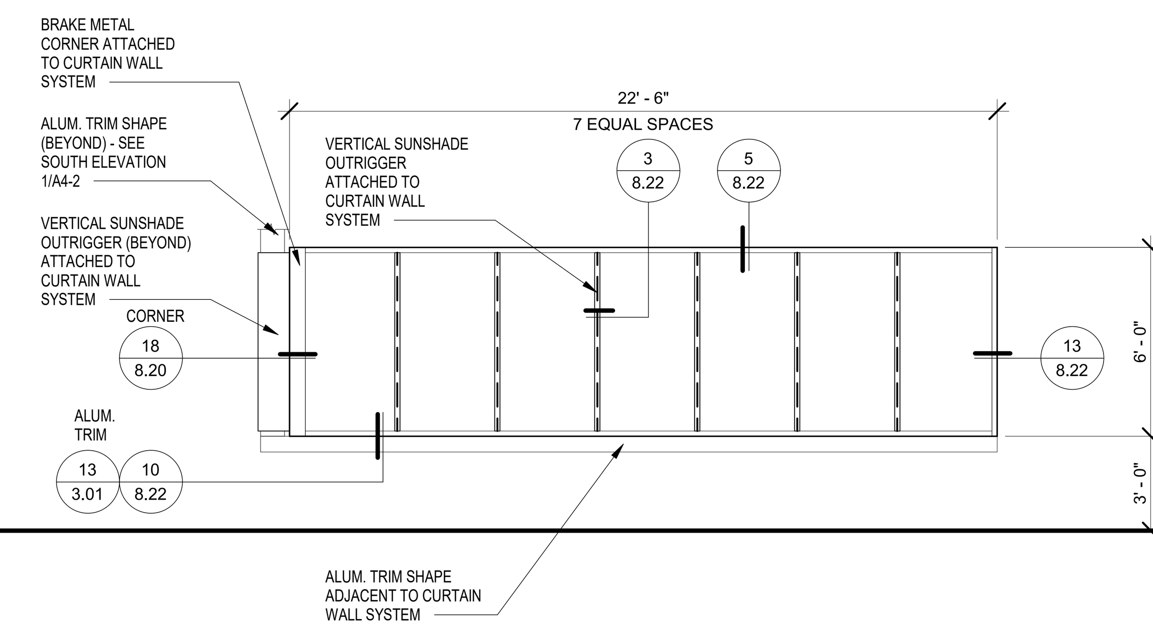
102 CW 3.04



AL 104	GLAZING TYPE	GL-1
	FRAME MATL.	ALUM.
	FRAME FIN.	F
	FRAME COLOR	AL-1

NOTES:
1. BASIS OF DESIGN: ARCADIA 2 1/4"x6" T500-OPG-6000 SERIES.
2. FOR ADDITIONAL INFO, REFER TO CURTAIN WALL SHOP DRAWING

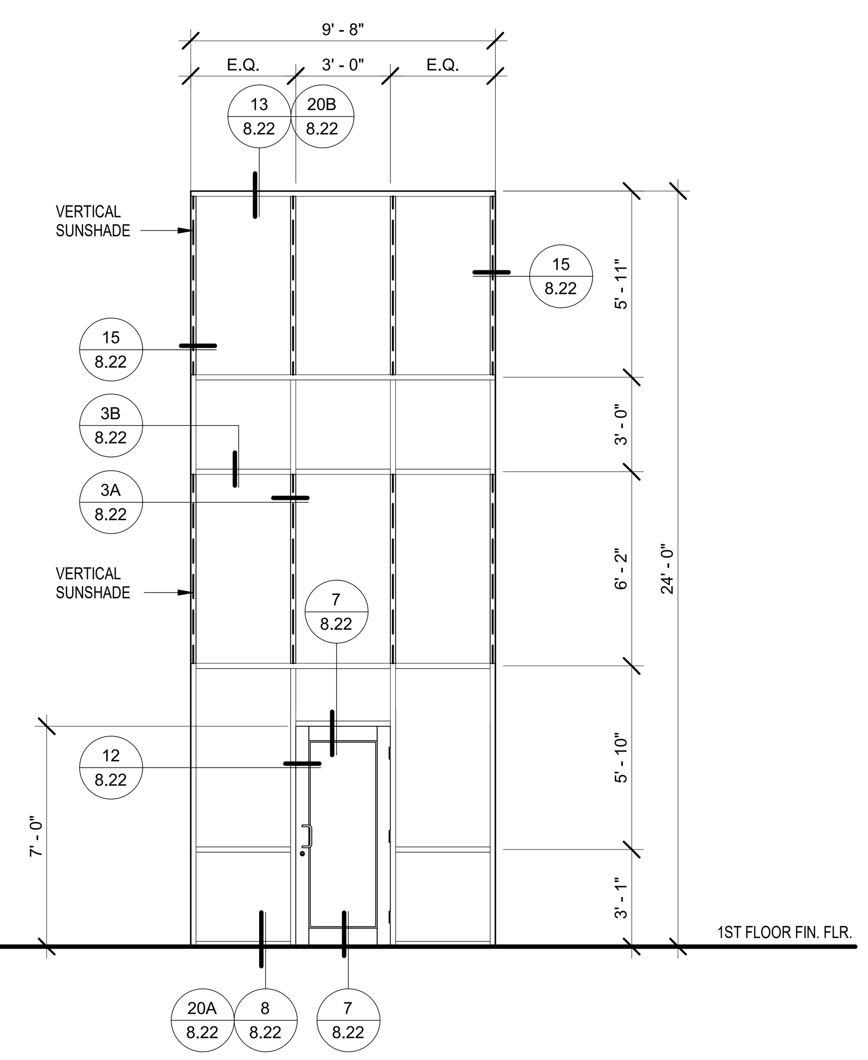
104 CW 3.01



AL 103	GLAZING TYPE	GL-1
	FRAME MATL.	ALUM.
	FRAME FIN.	F
	FRAME COLOR	AL-1

NOTES:
1. BASIS OF DESIGN: ARCADIA 2 1/4"x6" T500-OPG-6000 SERIES.
2. FOR ADDITIONAL INFO, REFER TO CURTAIN WALL SHOP DRAWING

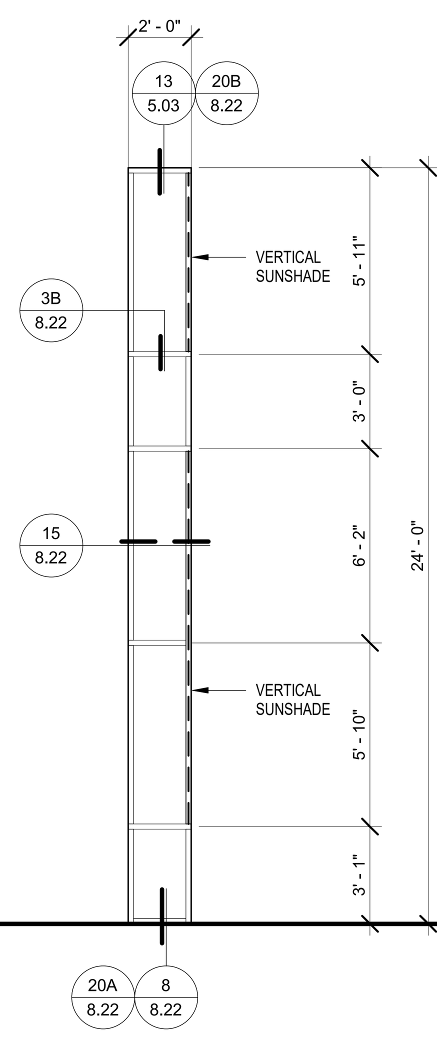
103 CW 3.01



AL 106	GLAZING TYPE	GL-1
	FRAME MATL.	ALUM.
	FRAME FIN.	F
	FRAME COLOR	AL-1

NOTES:
1. BASIS OF DESIGN: ARCADIA 2 1/4"x10" T500-OPG-3000 SERIES.
2. FOR ADDITIONAL INFO, REFER TO CURTAIN WALL SHOP DRAWING

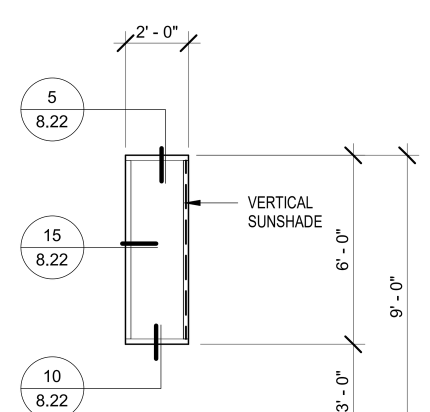
106 CW 4.03



AL 107	GLAZING TYPE	GL-1
	FRAME MATL.	ALUM.
	FRAME FIN.	F
	FRAME COLOR	AL-1

NOTES:
1. BASIS OF DESIGN: ARCADIA 2 1/4"x10" T500-OPG-3000 SERIES.
2. FOR ADDITIONAL INFO, REFER TO CURTAIN WALL SHOP DRAWING

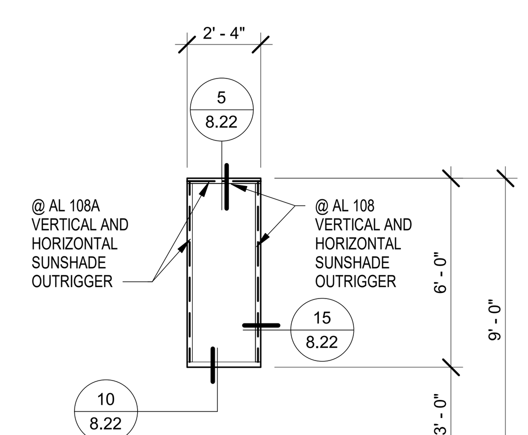
107 CW 4.04



AL 105	GLAZING TYPE	G-1
	FRAME MATL.	ALUM.
	FRAME FIN.	F
	FRAME COLOR	ASF-1

NOTES:
1. BASIS OF DESIGN: ARCADIA 2 1/8"x6" T500-OPG-6000 SERIES.
2. FOR ADDITIONAL INFO, REFER TO CURTAIN WALL SHOP DRAWING

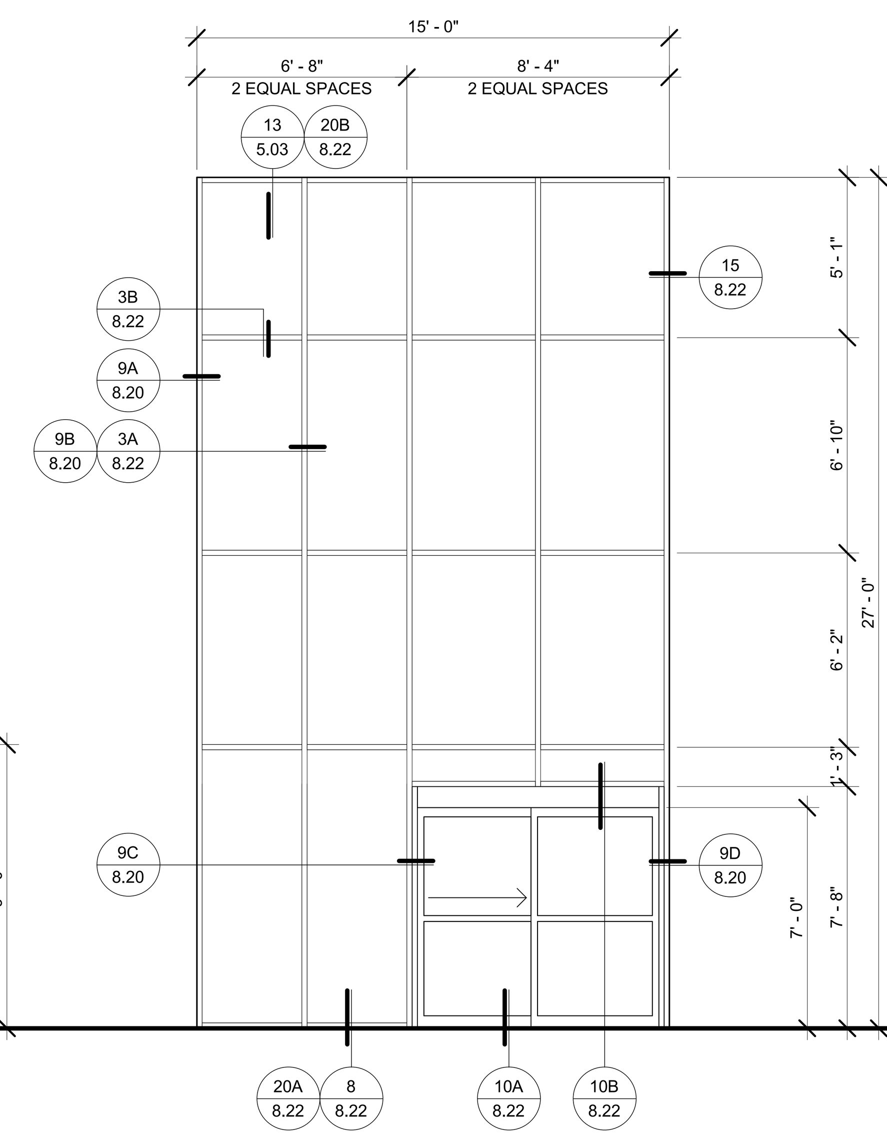
105 CW 3.03



AL 108 / AL 108A	GLAZING TYPE	GL-1
	FRAME MATL.	ALUM.
	FRAME FIN.	F
	FRAME COLOR	AL-1

NOTES:
1. BASIS OF DESIGN: ARCADIA 2 1/4"x6" T500-OPG-6000 SERIES.
2. FOR ADDITIONAL INFO, REFER TO CURTAIN WALL SHOP DRAWING

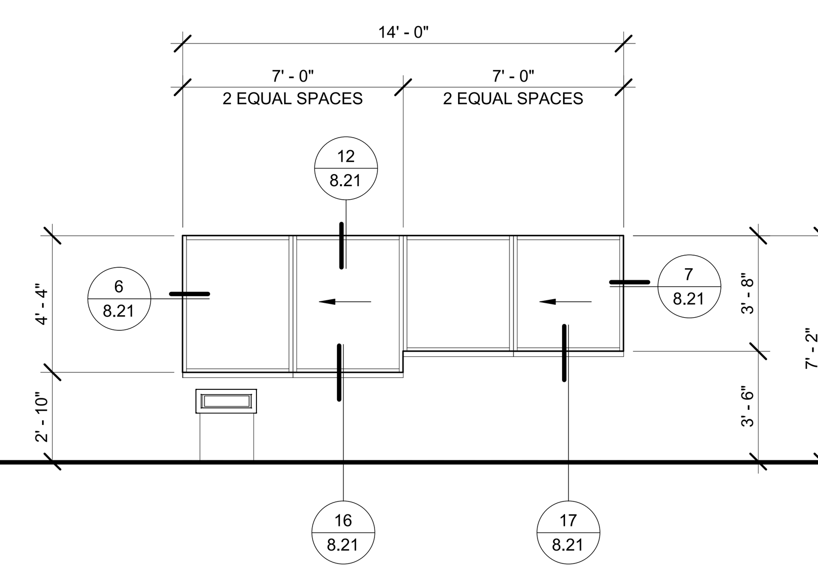
108&108A CW 3.03



AL 109	GLAZING TYPE	GL-1
	FRAME MATL.	ALUM.
	FRAME FIN.	F
	FRAME COLOR	AL-1

NOTES:
1. BASIS OF DESIGN: ARCADIA 2 1/4"x10" T500-OPG-3000 SERIES.
2. FOR ADDITIONAL INFO, REFER TO CURTAIN WALL SHOP DRAWING

109 CW 4.02



AL 110	GLAZING TYPE	GL-4
	FRAME MATL.	ALUM.
	FRAME FIN.	F
	FRAME COLOR	AL-1

NOTES:
1. BASIS OF DESIGN: ARCADIA 2 1/8"x4" ULT-500 SERIES.
2. FOR ADDITIONAL INFO, REFER TO CURTAIN WALL SHOP DRAWING

110 CW 5.01

SEE SHEET 8.53 FOR SUNSHADE AND GLAZING SCHEDULE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-119686 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/14/2019

DIVISION OF THE STATE ARCHITECT
WELLS FARGO CENTER - SOUTH TOWER
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COMPTON COLLEGE
STUDENT SERVICES BLDG.

COMPTON COMMUNITY COLLEGE DISTRICT
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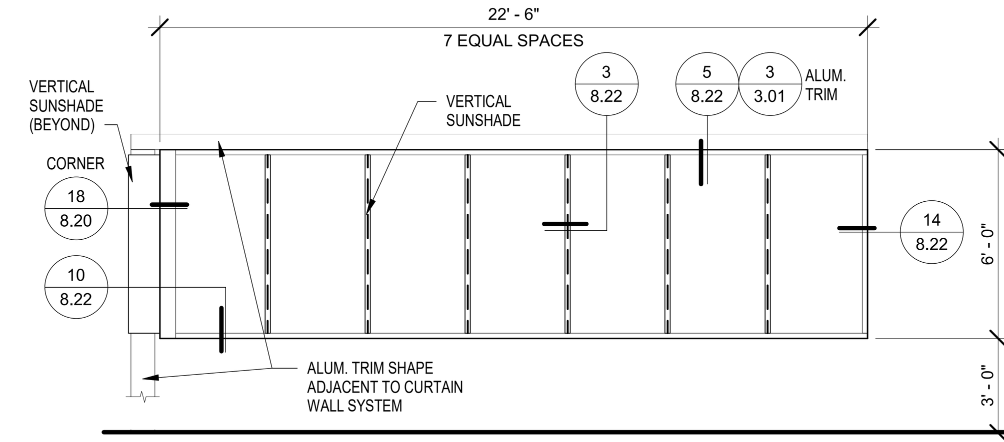
owner

tBP project number: 20987.00
file name: CC_SS_Central.RVT
drawn by: Z. WEN checked by: T. HALL
date: 9.3.2019

rev:	date:	description:

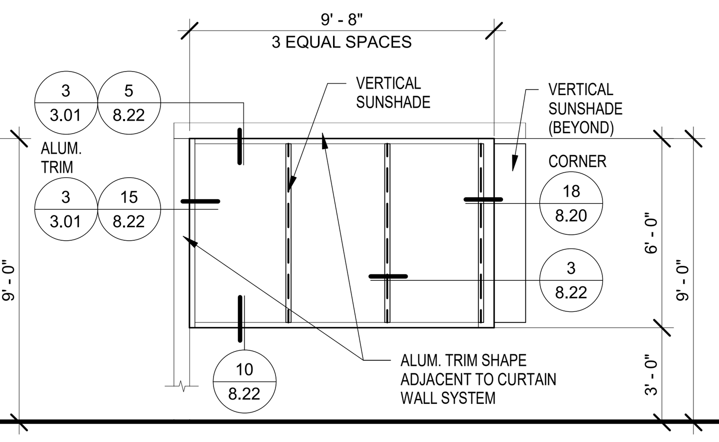
drawing title:
WINDOW SCHEDULE - EXTERIOR

drawing no.:
8.52



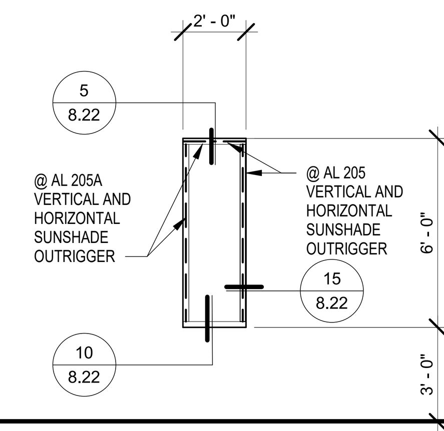
AL 203	GLAZING TYPE	GL-1
	FRAME MATL.	ALUM.
	FRAME FIN.	F
	FRAME COLOR	AL-1

NOTES:
1. BASIS OF DESIGN: ARCADIA 2 1/4"x6" T500-OPG-6000 SERIES.
2. FOR ADDITIONAL INFO, REFER TO CURTAIN WALL SHOP DRAWING 203 CW 3.01



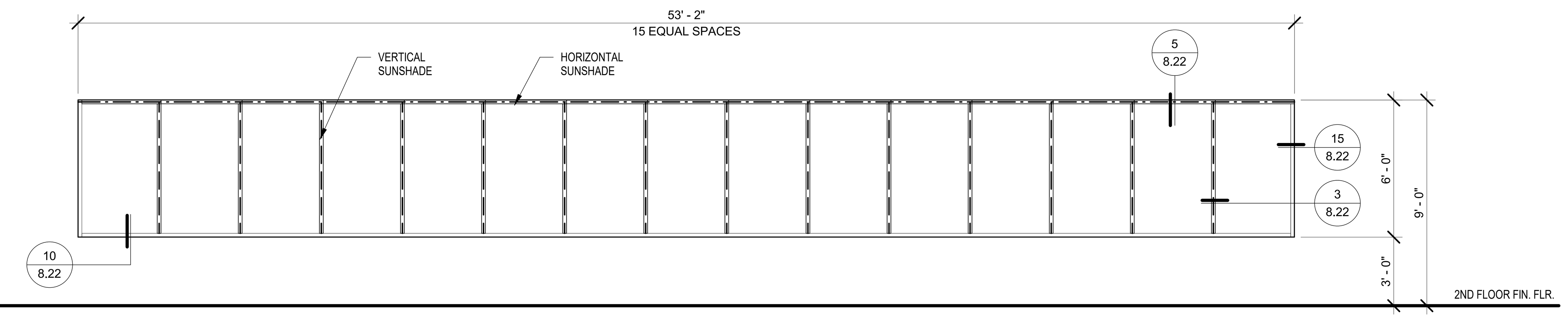
AL 204	GLAZING TYPE	GL-1
	FRAME MATL.	ALUM.
	FRAME FIN.	F
	FRAME COLOR	AL-1

NOTES:
1. BASIS OF DESIGN: ARCADIA 2 1/4"x6" T500-OPG-6000 SERIES.
2. FOR ADDITIONAL INFO, REFER TO CURTAIN WALL SHOP DRAWING 204 CW 3.01



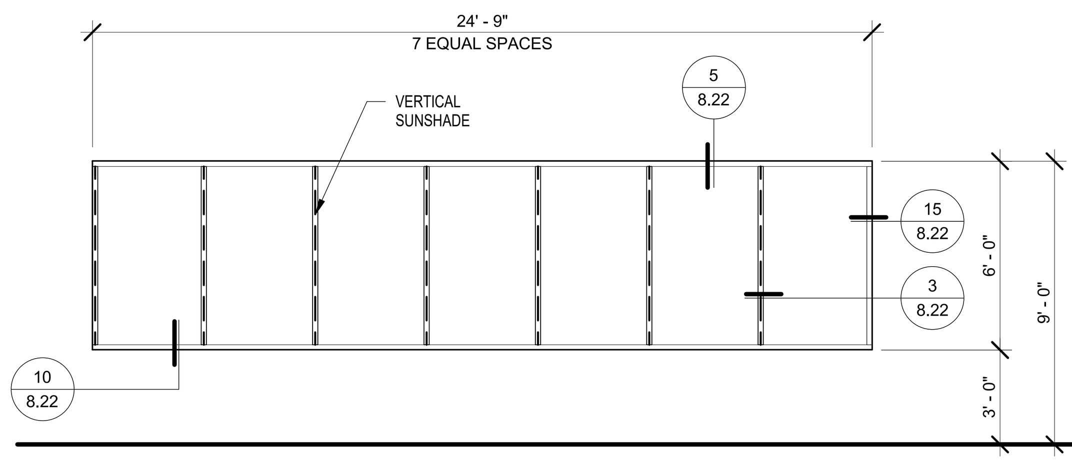
AL 205 / AL 205A	GLAZING TYPE	GL-1
	FRAME MATL.	ALUM.
	FRAME FIN.	F
	FRAME COLOR	AL-1

NOTES:
1. BASIS OF DESIGN: ARCADIA 2 1/4"x6" T500-OPG-6000 SERIES.
2. FOR ADDITIONAL INFO, REFER TO CURTAIN WALL SHOP DRAWING 205 CW 3.03



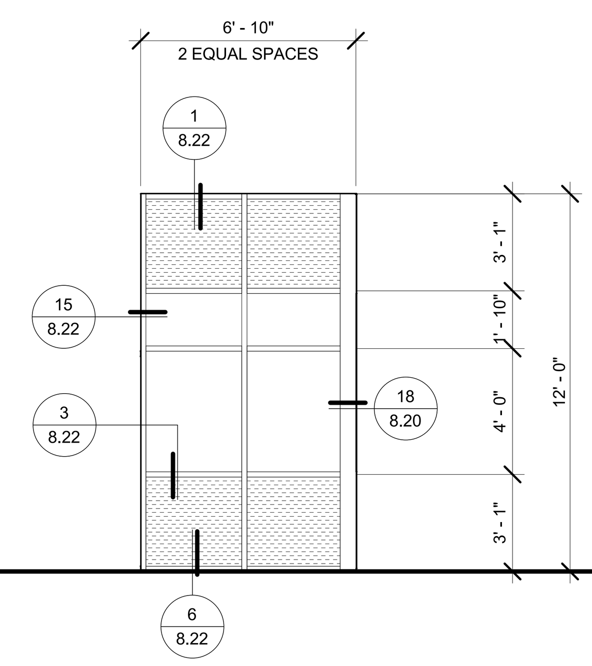
AL 206	GLAZING TYPE	GL-1
	FRAME MATL.	ALUM.
	FRAME FIN.	F
	FRAME COLOR	AL-1

NOTES:
1. BASIS OF DESIGN: ARCADIA 2 1/4"x6" T500-OPG-6000 SERIES.
2. FOR ADDITIONAL INFO, REFER TO CURTAIN WALL SHOP DRAWING 206 CW 3.02



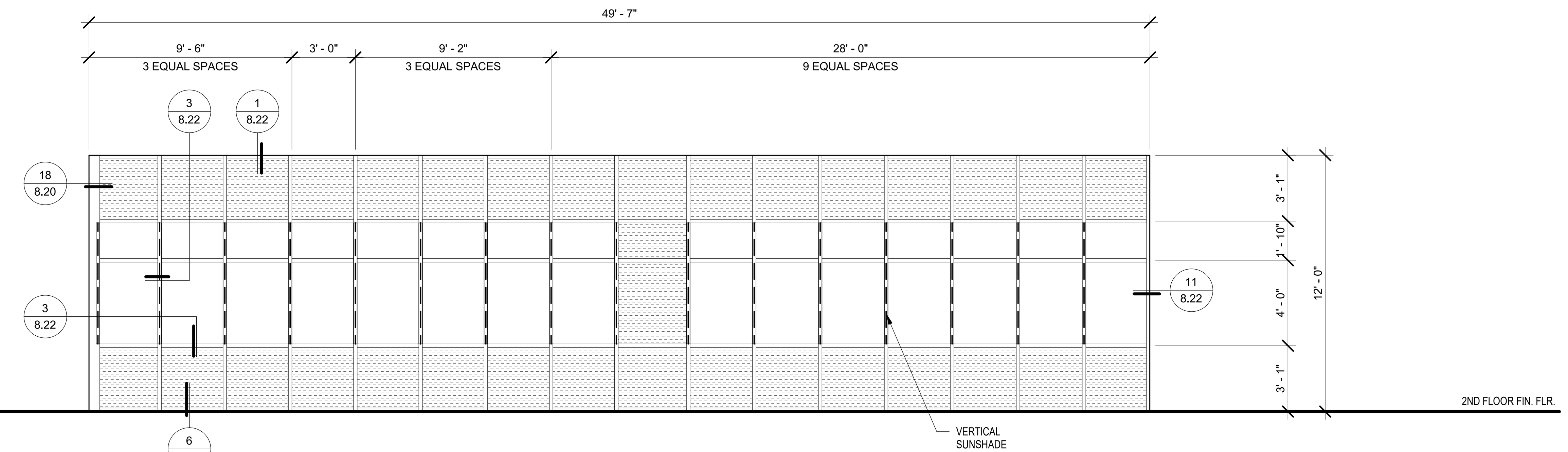
AL 207	GLAZING TYPE	GL-1
	FRAME MATL.	ALUM.
	FRAME FIN.	F
	FRAME COLOR	AL-1

NOTES:
1. BASIS OF DESIGN: ARCADIA 2 1/4"x6" T500-OPG-6000 SERIES.
2. FOR ADDITIONAL INFO, REFER TO CURTAIN WALL SHOP DRAWING 207 CW 3.03



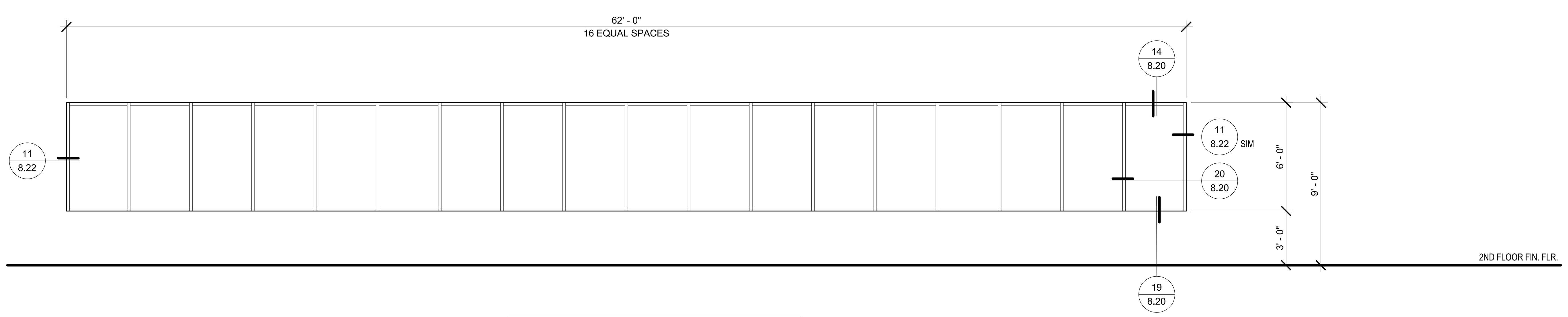
AL 210	GLAZING TYPE	GL-1/ GL-2
	FRAME MATL.	ALUM.
	FRAME FIN.	F
	FRAME COLOR	AL-1

NOTES:
1. BASIS OF DESIGN: ARCADIA 2 1/4"x6" T500-OPG-6000 SERIES.
2. FOR ADDITIONAL INFO, REFER TO CURTAIN WALL SHOP DRAWING 210 CW 3.02



AL 209	GLAZING TYPE	GL-1/ GL-2
	FRAME MATL.	ALUM.
	FRAME FIN.	F
	FRAME COLOR	AL-1

NOTES:
1. BASIS OF DESIGN: ARCADIA 2 1/4"x6" T500-OPG-6000 SERIES.
2. FOR ADDITIONAL INFO, REFER TO CURTAIN WALL SHOP DRAWING 209 CW 3.02



AL 208	GLAZING TYPE	GL-1
	FRAME MATL.	ALUM.
	FRAME FIN.	F
	FRAME COLOR	AL-1

NOTES:
1. BASIS OF DESIGN: ARCADIA 2 1/4"x4 1/2" TC-470 SERIES.
2. FOR ADDITIONAL INFO, REFER TO CURTAIN WALL SHOP DRAWING 208 CW 5.01

SUN SHADE LEGEND AND GLAZING TYPE

ALUM. HORIZONTAL SUNSHADE OUTRIGGER

ALUM. VERTICAL SUNSHADE OUTRIGGER

GL-1 INSULATING VISION GLASS UNIT OF NOMINAL 1" OVERALL THICKNESS
OUTER LIGHT: COATED, TINTED, HEAT TREATED GLASS, FULLY TEMPERED. NOMINAL 1/4" THICK, LOW-E COATING ON #2 SURFACES. AIR SPACE 1/2"
INNER LIGHT: UNCOATED CLEAR, HEAT TREATED GLASS, FULLY TEMPERED, NOMINAL 1/4" THICK

GL-2 INSULATING OPAQUE SPANDREL GLASS UNIT OF NOMINAL 1" OVERALL THICKNESS
OUTER LIGHT: COATED, TINTED, HEAT TREATED GLASS, FULLY TEMPERED. NOMINAL 1/4" THICK, LOW-E COATING ON #2 SURFACES. AIR SPACE 1/2"
INNER LIGHT: BACK PAINTED DECORATIVE, HEAT TREATED GLASS, FULLY TEMPERED, NOMINAL 1/4" THICK, COLOR COATING ON #3 SURFACE

GL-3 CLEAR, HEAT TREATED GLASS, FULLY TEMPERED, 1/4" THICK

GL-4 INSULATING VISION GLASS UNIT OF NOMINAL 1" OVERALL THICKNESS
OUTER LIGHT: COATED, CLEAR, HEAT TREATED GLASS, FULLY TEMPERED. NOMINAL 1/4" THICK. AIR SPACE 1/2"
INNER LIGHT: UNCOATED CLEAR, HEAT TREATED GLASS, FULLY TEMPERED, NOMINAL 1/4" THICK

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-119686 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/14/2019

DIVISION OF THE STATE ARCHITECT
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consultant

COMPTON COLLEGE STUDENT SERVICES BLDG.

COMPTON COMMUNITY COLLEGE DISTRICT
1111 E. ARTESIA BLVD.
COMPTON, CA 90221

owner

tBP project number: 20987.00

file name: CC_SS_Central.RVT

drawn by: Z. WEN checked by: T. HALL

date: 9.3.2019

rev:	date:	description:

drawing title:
WINDOW SCHEDULE - EXTERIOR

drawing no.:
8.53

Room Finish Schedule

SPACE		FLOOR				BASE				WALLS				CEILINGS				
NUMBER	NAME	MATERIAL	TYPE	FINISH	COLOR	MATERIAL	HEIGHT	FINISH	COLOR	MATERIAL	TYPE	FINISH	COLOR	MATERIAL	TYPE	FINISH	COLOR	REMARKS
1ST FLR																		
100	CORR.	PORCELAIN TILE		F	PT-5/PT-6	RUBBER BASE	4"	F	RB-1	GYP. BD./ WOOD PANEL	-	SATIN/ F	P-1/ P-4/ AWP-1	GYP. BD.		SATIN	P-1	
101	STAIR #1	PORCELAIN TILE		F	PT-6	RUBBER BASE	4"	F	RB-1		-			U.O.S.		EXPSD U.O.S.		
102	JAN.	CONCRETE		SEALED	C-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	GLOSS	P-1	U.O.S.		EXPSD U.O.S.		
103	MEN	PORCELAIN TILE		F	PT-4	ALUMINUM COVE TRIM	-	F	ACT-1	PORC. TILE	F		PT-1/2/3	GYP. BD.		GLOSS	P-1	
104	WOMEN	PORCELAIN TILE		F	PT-4	ALUMINUM COVE TRIM	-	F	ACT-1	PORC. TILE	F		PT-1/2/3	GYP. BD.		GLOSS	P-1	
105	GNDR. NTRL. REST RM	PORCELAIN TILE		F	PT-4	ALUMINUM COVE TRIM	-	F	ACT-1	PORC. TILE	F		PT-1/2/3	GYP. BD.		GLOSS	P-1	
106	F.R.	CONCRETE		SEALED	C-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	U.O.S.		EXPSD U.O.S.		
107	ELEC.	CONCRETE		SEALED	C-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	U.O.S.		EXPSD U.O.S.		
108	DATA	CONCRETE		SEALED	C-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	U.O.S.		EXPSD U.O.S.		
109	STAFF. TOILET-W.	PORCELAIN TILE		F	PT-4	ALUMINUM COVE TRIM	-	F	ACT-1	PORC. TILE	F		PT-1/2/3	GYP. BD.		GLOSS	P-1	
110	STAFF TOILET-M.	PORCELAIN TILE		F	PT-4	ALUMINUM COVE TRIM	-	F	ACT-1	PORC. TILE	F		PT-1/2/3	GYP. BD.		GLOSS	P-1	
111	ELEV. MACH.	CONCRETE		SEALED	C-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	U.O.S.		EXPSD U.O.S.		
112	ELEV	PORCELAIN TILE		F	PT-3/PT-4	ALUMINUM COVE TRIM	-	F	ACT-1	METAL	-	F		METAL				
113	CONF.	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
114	COMP.	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
115	STAIR #2	PORCELAIN TILE		F	PT-6	RUBBER BASE	4"	F	RB-1		-			U.O.S.		EXPSD U.O.S.		
116	INNOVATION CENTER	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
122	TESTING CENTER	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
130	TRIO	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
131	STUDY	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
132	STUDY	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
133	PRG. MNGR.	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
134	PRG. SPEC.	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
135	STOR.	RUBBER FLOR		F	LF-2	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
136	FOOD STOR.	RUBBER FLOR		F	LF-2	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
140	SSSP/ WELCOME CENTER/ OUTREACH	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
141	STOR/ WK.	RUBBER FLOR		F	LF-2	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
143	FILE.	RUBBER FLOR		F	LF-2	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
144	OUTRCH. ADVSR	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
145	SSSP COORD.	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
146	DIR. ENRLMNT	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
150	SRC	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
151	TUTOR	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
152	SUPPLY STOR.	RUBBER FLOR		F	LF-2	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
153	FILE	RUBBER FLOR		F	LF-2	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
154	COUNS/ LD SPEC.	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
155	ADJ. COUNS	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
156	COUNS.	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
157	SRC DIR.	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
158	SPRVSR	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
159	HIGH TECH STOR	RUBBER FLOR		F	LF-2	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
160	TESTING	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
161	BURSAR	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
162	SAFE/ COUNT.	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
170	FINANCIAL AID	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
171	HUDDLE	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
172	FILE/ SCAN	RUBBER FLOR		F	LF-2	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
173	WORK/ STOR.	RUBBER FLOR		F	LF-2	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
174	DIRECTOR	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
175	FA SUPRV.	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
176	HOPE SUPRV.	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
177	ACAD. COUNS.	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
180	ADMISS. & RECORDS	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
181	HUDDLE	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
182	RECORD VAULT	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
183	FILE	RUBBER FLOR		F	LF-2	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
184	DIRECTOR	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
185	ASSOC. REGSTR.	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
186	WORK/ STOR.	RUBBER FLOR		F	LF-2	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
2ND FLR																		
200	CORR.	CARPET		F	CPT-3	RUBBER BASE	4"	F	RB-1	GYP. BD./ WOOD PANEL	-	SATIN/ F	P-1/ P-4/ AWP-1	A.C.T.	2X4		ACP-2	
201	STAIR #1	PORCELAIN TILE		F	PT-6	RUBBER BASE	4"	F	RB-1		-			U.O.S.		EXPSD U.O.S.		
202	MEN'S	PORCELAIN TILE		F	PT-4	ALUMINUM COVE TRIM	-	F	ACT-1	PORC. TILE	F		PT-1/2/3	GYP. BD.		GLOSS	P-1	
203	WOMEN'S	PORCELAIN TILE		F	PT-4	ALUMINUM COVE TRIM	-	F	ACT-1	PORC. TILE	F		PT-1/2/3	GYP. BD.		GLOSS	P-1	
204	LACTATION	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
205	ELEC	CONCRETE		SEALED	C-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	U.O.S.		EXPSD U.O.S.		
206	DATA	CONCRETE		SEALED	C-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	U.O.S.		EXPSD U.O.S.		
207	STAFF TOILET-W.	PORCELAIN TILE		F	PT-4	ALUMINUM COVE TRIM	-	F	ACT-1	PORC. TILE	F		PT-1/2/3	GYP. BD.		GLOSS	P-1	
208	STAFF. TOILET-M.	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1		-			U.O.S.		EXPSD U.O.S.		
209	JAN.	CONCRETE		SEALED	C-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	GLOSS	P-1	U.O.S.		EXPSD U.O.S.		
210	ELEV	PORCELAIN TILE		F	PT-3/PT-4	ALUMINUM COVE TRIM	-	F	ACT-1	METAL	-	F		METAL				
211	CONF.	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
212	CLASSROOM	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
213	STAIR #2	PORCELAIN TILE		F	PT-6	RUBBER BASE	4"	F	RB-1		-			U.O.S.		EXPSD U.O.S.		
220	VRC LOUNGE	RUBBER FLOR		F	LF-2	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
221	COUN.	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
230	STUDENT EQUITY	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
231	ADVISOR	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
232	ADVISOR	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
233	DIRECTOR	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
234	COUN.	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
240	VP OF STUDENT SERVICES	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
241	WORK/ STORAGE	RUBBER FLOR		F	LF-2	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
242	VP STU. SERVICES	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
251	COUNS.	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
252	COUNS.	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
253	COUNS.	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
254	WORK / STOR.	RUBBER FLOR		F	LF-2	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
255	COUNS. (PT)	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
256	DEAN. OF COUN.	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
257	COUNS.	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
258	COUNS.	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
259	COUNS.	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
260	ADJ. COUN.	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
261	TRANS. COUN.	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
262	ADJ. COUN.	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
263	COUNS. COORD.	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
264	FYE COUNS. (PT)	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
265	COMP. AREA.	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
266	COUNS./ CAR. & TRNSF/ FYE	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
270	CalWORKS	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
271	FILE./ STOR.	RUBBER FLOR		F	LF-2	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
272	DIR	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
273	F.T. COUNS.	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
274	ADJ. COUNS.	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
279	COMP./ PRINT	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
280	EOPS & CARE	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
281	FILE / STOR.	RUBBER FLOR		F	LF-2	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
282	COUNS. (FT)	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
283	COORD.	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
284	COORD.	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
285	PRG. TECH.	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
286	COUNS. (FT)	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
287	DIR.	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
288	COUNS. (FT)	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
289	COUNS. (PT)	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
290	FOSTER & KINSHIP CARE	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
291	FOOD STOR.	RUBBER FLOR		F	LF-2	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
292	YESS ADVISOR	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	
293	PRO TECH	CARPET		F	CPT-1	RUBBER BASE	4"	F	RB-1	GYP. BD.	-	SATIN	P-1	A.C.T.	2X4		ACP-1	

ABBREVIATIONS

ACP	ACOUSTICAL CEILING PANEL
AGL	AGLOMMERATE TILE
BD	BOARD
CMT	CERAMIC MOSAIC TILE
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
CT	CERAMIC TILE
EPXY	EPOXY
EXPSD	EXPOSED
F	FACTORY FINISH
FRP	FIBER REINFORCED PLASTIC PANEL
GL	GLASS
GYP	GYPSUM
LAM	PLASTIC LAMINATE
LTF	LINOLEUM TILE FLOORING
MTL	METAL
EP	EPOXY PAINT
PE	PAINT EGGSHELL
PF	PAINT FLAT
PG	PAINT GLOSS
PNL	PANEL
PSG	PAINT SEMI GLOSS
QT	QUARRY TILE
RESIL	RESILIENT
RTF	RUBBER TILE FLOORING
SF	SATIN FINISH
SLR	SEALER
SV	SHEET VINYL
VCT	VINYL COMPOSITION TILE
VFWC	VINYL FABRIC WALL COVERING

NOTES

INTERIOR WALL AND CEILING FINISH MATERIALS SHALL BE CLASSIFIED IN ACCORDANCE WITH ASTM 84 OR UL 723. SUCH INTERIOR FINISH MATERIALS SHALL BE GROUPED IN THE FOLLOWING CLASSES IN ACCORDANCE WITH THEIR FLAME AND SMOKE-DEVELOPED INDEXES, REFER TO 803.1.1 (SEE EXCEPTION 803.1.2) AND CFC 803.1.

1. INTERIOR WALL AND CEILING FINISHES SHALL BE CLASSIFIED FOR FIRE PERFORMANCE AND SMOKE DEVELOPMENT PER SECTION 803.
2. INTERIOR WALLS AND CEILING FINISHES SHALL BE CLASSIFIED BY OCCUPANCY PER TABLE 803.9 OR BE TESTED PER SECTION 803.1.2 (NFPA 286 CRITERIA).
3. TEXTILE AND VINYL WALL COVERINGS SHALL BE TESTED PER 803.1.3 ACCEPTANCE CRITERIA OF NFPA 265, OR, PER 803.1.4 ACCEPTANCE CRITERIA TESTED TO ASTM E84 OR UL 723 CLASS A FLAME SPREAD INDEX AND PROTECTED BY AN AUTOMATIC FIRE SPRINKLER SYSTEM PER 903.1.1 OR 903.1.2.

   EXCEPTION: 803.2 MATERIALS LESS THAN 0.036" THICK APPLIED DIRECTLY NEED NOT BE TESTED.
4. INTERIOR FLOOR FINISHES SHALL COMPLY WITH SECTION 804.
5. DECORATIVE TRIM & MATERIALS SHALL COMPLY WITH SECTION 806.
6. THERMAL AND ACOUSTICAL INSULATION SHALL COMPLY WITH SECTION 719.

CALIFORNA REQUIRES ALL FABRIC USED IN PUBLIC PLACES TO BE REGISTERED WITH THE STATE FIRE MARSHAL AND COMPLY WITH TITLE 19 REQUIREMENTS OF THE CALIFORNIA CODE OF REGULATIONS.

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OFFICE OF REGULATION SERVICES

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APP. 03-119686 INC:
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DATE: 10/14/2019

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tBP project number: 20987.00

file name:

drawn by: checked by:

date: 01/18/2019

rev: date: description:

drawing title:
FINISH SCHEDULE

drawing no.:
9.01

COLOR SCHEDULE

SPEC. SECTION	MATERIAL	DESIGNATION	MANUFACTURER	COLOR NO.	COLOR NAME	REMARKS
03 10 00 CONCRETE FORMS	ARCHITECTURAL CONCRETE	AC-1				
03 30 00 CAST-IN-PLACE CONCRETE	CONCRETE FLOORS - POLISHED	C-1				INT-CONCRETE FLOORS W/ ABRASIVE FINISH
	CONCRETE FLOORS - EXPOSED/NATL.	C-2				INT-CONCRETE TREADS/LANDINGS W/ ABRASIVE FINISH & BROOM FINISH. SEE WRITTEN SPECS.
04 20 00 UNIT MASONRY	BRICK VENEER	BR-1	ENDICOTT CLAY PRODUCTS CO. NORMAN		MEDIUM IRON SPOT #77	EXT VELOUR FINISH,SEE WRITTEN SPECIFICATIONS
	BRICK VENEER	BR-2	ENDICOTT CLAY PRODUCTS CO. NORMAN		GOLDEN BUFF	EXT SMOOTH FINISH, SEE WRITTEN SPECIFICATIONS
	BRICK VENEER	BR-3	ENDICOTT CLAY PRODUCTS CO. NORMAN		MANGANESE BROWN	EXT VELOUR FINISH, SEE WRITTEN SPECIFICATIONS
05 70 00 DECORATIVE METAL	STAINLESS STEEL RAIL CAP	SST-1				INT SATIN FINISH
	STAINLESS STEEL DECORATIVE MESH	DM-1	GKD METAL MESH			INT-GURDRAIL@2ND FLOOR CORRIDR, STAIR
06 41 00 ARCHITECTURAL WOOD CASEWORK	PLASTIC LAMINATE	PL-1	WILSONART	4941L-18	COSMIC STRANDZ	INT-CASEWORK, UPPER & LOWER CABINETS VERTICAL SURFACES
	PLASTIC LAMINATE	PL-2	PANOLAM	SR520	PRIMARY RED	INT-SERVICE COUNTER VERTICAL FACE HIGH GLOSS FINISH
	SOLID SURFACE	SSU-1	FORMICA SOLID SURFACING FORMICA CLASSICS	775	LUNA STORM	INT-CASEWORK COUNTERTOPS
	QUARTZ	Q-1	WILSONART QUARTZ	Q1012	LORRAINE	INT-SERVICE COUNTERTOPS
07 42 13 METAL WALL PANELS	METAL SOFFIT	MS-1	AEP SPAN PROFILE SERIES	UC106717XL	PPG DURANAR CINNAGOLD DUST	EXT-BUILDING SOFFIT
07 42 13.23 METAL COMPOSITE MATERIAL WALL PANELS	ALUMINUM CLADDING	MP-1	REYNOBOND PE		BONE WHITE	EXT SEE WRITTEN SPECIFICATIONS
	ALUMINUM CLADDING	MP-2	REYNOBOND PE		ANODIC CLEAR	EXT SEE WRITTEN SPECIFICATIONS
08 11 13 STEEL DOORS & FRAMES	METAL DOOR	HMD-1	DUNN EDWARD	DE6353	SILVER LINED	INT
	METAL DOOR	HMD-2	DUNN EDWARD	DE6368	WALRUS	EXT
	METAL DOOR	HMD-3	DUNN EDWARD	DE6318	ANTIQUE PAPER	EXT
	METAL FRAME	HMF-1	DUNN EDWARD	DE6353	SILVER LINED	INT
	METAL FRAME	HMF-2	DUNN EDWARD	DE6368	WALRUS	EXT
	METAL FRAME	HMF-3	DUNN EDWARD	DE6318	ANTIQUE PAPER	EXT
08 14 16 FLUSH WOOD DOORS	WOOD VENEER	WD-1	SHERMIN WILLIAMS	SW3127	CULINARY CREAM	- -
08 43 13 ALUM. FRAMED ENTRANCES & STOREFRONTS	ALUMINUM FRAME	AL-1			FACTORY FINISH	EXT SEE WRITTEN SPECIFICATIONS
	INSULATED GLASS - STOREFRONT	GL-1	VITRO SOLARBAN 70XL		(2) SOLARGRAY + CLEAR	EXT SEE WRITTEN SPECIFICATIONS
	INSULATED GLASS - STOREFRONT SPANDREL	GL-2	GLAS PRO		ON THE ROCKS	EXT SEE WRITTEN SPECIFICATIONS
	GLASS INTERIOR VISION	GL-3			CLEAR	INT SEE WRITTEN SPECIFICATIONS
	INSULATED GLASS EXTERIOR TRANACTION WINDOW	GL-4			CLEAR	INT @ BURSAR SEE WRITTEN SPECIFICATIONS
	GLASS INTERIOR TRANACTION WINDOW	GL-5			CLEAR	INT @ BURSAR SEE WRITTEN SPECIFICATIONS
09 24 00 CEMENT PLASTERING	EXTERIOR CEMENT PLASTER SYSTEM ACRYLIC FINISH, FIELD	CP-1	LAHABRA, PAREX USA	10400L (X-18052)	SNOWBALL	EXT SEE WRITTEN SPECIFICATIONS
	EXTERIOR CEMENT PLASTER SYSTEM ACRYLIC FINISH, FIELD	CP-2	PAREX USA	3016(29)	PEWTER	EXT SEE WRITTEN SPECIFICATIONS
	EXTERIOR CEMENT PLASTER SYSTEM ACRYLIC FINISH, ACCENT	CP-3	PAREX USA	303I(12)	TUXEDO	EXT SEE WRITTEN SPECIFICATIONS
	EXTERIOR CEMENT PLASTER SYSTEM ACRYLIC FINISH, ACCENT	CP-4	PAREX USA	DUNN EDWARD	DEA149 SPICED BARRY	EXT
09 30 00 TILING	PORCELAIN TILE	PT-1	DALTILE FABRIQUE	P685	BLANC LINEN (12"X24")	INT-RESTROOM WALL TILE, FIELD
	PORCELAIN TILE	PT-2	DALTILE FABRIQUE	P689	NOIR LINEN (12"x24")	INT-RESTROOM FLOOR TILE, FIELD UNPOLISHED,
	PORCELAIN TILE	PT-3	DALTILE FABRIQUE	P686	CREME LINEN (12"x24")	INT-LOBBY FLOOR FIELD
	PORCELAIN TILE	PT-4	DALTILE FABRIQUE	P690	GRIS LINEN (12"x24")	INT-LOBBY FLOOR ACCENT
	PORCELAIN TILE	PT-5	DALTILE FABRIQUE	P685	BLANC LINEN (4"X24")	INT-RESTROOM WALL TILE, ACCENT
	PORCELAIN TILE	PT-6	DALTILE FABRIQUE	P689	NOIR LINEN (4"x24")	INT-RESTROOM WALL TILE, ACCENT
	PORCELAIN TILE	PT-7	DALTILE FABRIQUE	P690	GRIS LINEN (4"x24")	INT-RESTROOM WALL TILE, ACCENT
	ALUMINUM COVE TRIM	ACT-1	SCHLUTER SYSTEMS DILEX AHK	-	SATIN ANODIZED ALUMINUM	INT-RESTROOM
	GROUT	G-1	MAPEI	103	COBBLESTONE	INT-RESTROOM WALL TILE GROUT LOBBY FLOOR TILE GROUT
	GROUT	G-2	MAPEI	19	PEARL GRAY	INT-RESTROOM FLOOR TILE GROUT
	STONE THRESHOLD	T-1	-			
09 51 00 SUSPENDED ACOUSTICAL CEILINGS	ACOUSTICAL CEILING PANELS	ACP-1	ARMSTRONG CIRRUS SECOND LOOK	-	WHITE	INT-LOBBY/ CORRIDOR SEE WRITTEN SPECIFICATIONS
	ACOUSTICAL CEILING PANELS	ACP-2	ARMSTRONG CIRRUS SECOND LOOK	-	WHITE	INT-2X4 W/ 6" LINEAR PATTERN SEE WRITTEN SPECIFICATIONS
09 65 00 RESILIENT FLOORING	RUBBER BASE	RB-1	JOHNSONITE TRADITIONAL WALL BASE	20	CHARCOAL	INT
	LINOLEUM SHEET FLOORING	LF-1	JOHNSONITE, HARMONIUM VENETO	685	ICED SLATE	INT-2ND FLOOR CORRIDOR
	LINOLEUM SHEET FLOORING	LF-2	JOHNSONITE, HARMONIUM VENETO	686	DEEP SPACE	INT-WORKROOM/ STORAGE 2ND FLOOR BRIDGE
	LINOLEUM SHEET FLOORING	LF-3	JOHNSONITE, HARMONIUM VENETO	740	BLAZE	INT-2ND FLOOR BRIDGE
09 68 13 TILE CARPETING	CARPET TILE	CPT-1	TANDUS ISO 04536	48201	WIRED	INT-OFFICE CARPET VERTICAL ASHLAR INSTALLATION
09 84 30 SOUND-ABSORBING WALL AND CEILING UNITS	WOOD WALL PANEL	AWP-1	DECOUSTICS QUADRILLO		BEECH	INT-CORRIDOR

COLOR SCHEDULE

SPEC. SECTION	MATERIAL	DESIGNATION	MANUFACTURER	COLOR NO.	COLOR NAME	REMARKS
09 91 13 EXTERIOR PAINT	PAINT	P-4	DUNN EDWARDS	DEW381	DROPLETS	MECHINCAL SCREEN
	PAINT	P-5				
09 91 23 INTERIOR PAINT	PAINT	P-1	DUNN EDWARDS	DE6232	ABSTRACT WHITE	INT-WALLS (FIELD)
	PAINT	P-2	DUNN EDWARDS	DEA150	SCARLET PAST	INT-WALLS (ACCENT)
	PAINT	P-3	DUNN EDWARDS	-	-	
09 96 00 HIGH PERFORMANCE COATINGS	EXTER. HIGH PERFORMANCE COATING STEEL SUBSTRATES	HP-1	TNEMEC	41 MT	SILVER	EXT SEE WRITTEN SPECIFICATIONS
	EXTER. HIGH PERFORMANCE COATING GALVANIZED METAL SUBSTRATES	HP-2	TNEMEC			EXT SEE WRITTEN SPECIFICATIONS
	INTER. HIGH PERFORMANCE COATING STEEL SUBSTRATES	HP-3	TNEMEC			INT - EXPOSED STRUCTURE MATCH W/ P-1
	INTER. HIGH PERFORMANCE COATING GALVANIZED METAL SUBSTRATES	HP-4	TNEMEC			INT SEE WRITTEN SPECIFICATIONS
10 11 00 VISUAL DISPLAY UNITS	MARKER BOARD	MB-1	CLARIDGE CONCEPT	No. 100	LCS WHITE	INT
	TACKBOARDS	TB-1	CLARIDGE CONCEPT	1113	STEEL GRAY	INT
10 14 00 SIGNAGE	DIMENSIONAL CHARACTERS STAINLESS STEEL	ES-1				EXT SEE WRITTEN SPECIFICATIONS
	DIMENSIONAL LETTER SIGNAGE	-				INT SEE WRITTEN SPECFICATIONS
10 21 13.17 PHENOLIC CORE TOILET COMPARTMENT	TOILET COMPARTMENTS	TC-1	BOBRICK SIERRA SERIES 1090	SC04	FOREST GREEN	INT
10 22 39 FOLDING PANEL PARTITIONS	VINYL FABRIC	FP-1	HUFCOR CAIRN PATTERN	44-557	PEBBLE	INT
	METAL TRIM & SEAL	FP-2	HUFCOR -			INT
	MARKERBOARD (INSET)	FP-3	HUFCOR		WHITE	INT
10 71 13.43 FIXED SUN SCREENS	SUN CONTROL LOUVER	SL-1	ARCADIA BSD001, VERTICAL			EXT SEE WRITTEN SPECIFICATIONS
	SUN CONTROL LOUVER	SL-2	ARCADIA BSD009, HORIZONTAL			EXT SEE WRITTEN SPECIFICATIONS
		-	- -		-	- -
11 52 13 PROJECTION SCREENS	PROJECTION SCREENS	PS-1				INT -
12 24 00 WINDOW SHADES	ROLLER SHADES	RS-1	SKYCO SHEERWEAVE, STYLE 2390 , 5%	P14	OYSTER PEARL GREY	INT INTERIOR ROLLER SHADES
	ROLLER SHADES	RS-2	SKYCO AVILA TWILIGHT	0015	KHAKI	INT INTERIOR BLACK-OUT ROLLER SHADES
12 48 13 ENTRANCE FLR MATS & FRAMES	ENTRANCE FLOOR MATS	EFM-1	MATS INC GRATE MAT XT FOOT GRILLE		CHARCOAL	INT
14 24 00 HYDRAULIC ELEVATOR	ELEVATOR WALL PANEL	EWP-1	- -	-	-	INT SIDE AND REAR WALL PANELS
	ELEVATOR WALL REVEALS	-		-	SATIN STAINLESS STEEL, NO. 4	INT SEE WRITTEN SPECIFICATIONS
	ELEVATOR FLOOR	PT-2	DAL TILE FABRIQUE	P690	GRIS LINEN (12"X24")	INT
	ELEVATOR CEILING	-	-	-	STAINLESS STEEL, NO. 8	INT SEE WRITTEN SPECIFICATIONS
	HANDRAILS	-	-	-	STAINLESS STEEL, NO. 4	INT

TYPICAL FINISH NOTES

1. SUBMIT MANUFACTURER'S STANDARD COLORS FOR COLOR SELECTION
2. ALL INTERIOR FINISHES SHALL COMPLY W/ THE FLAME SPREAD AND SANITATION REQUIREMENTS OF CHAPTER 8, C.B.C.

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DATE: 10/14/2019

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owner

tBP project number : 20987.00
file name: DTL-0902_COLORSCHEDULE.DWG
drawn by: tBP checked by: T. HALL
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Rev:	date:	description:

drawing title:
COLOR SCHEDULE

drawing no.:
9.02

1ST FLOOR FINISH PLAN 1

SCALE 1/8" = 1'-0"

2ND FLOOR FINISH PLAN 2

SCALE 1/8" = 1'-0"

LEGEND

- CONCRETE : CF-1
- CARPET : CPT-1
- PORCELAIN TILE : PT-2
- PORCELAIN TILE : PT-3
- PORCELAIN TILE : PT-4
- LINOLEUM : LF-2
- ENTRANCE FLOOR MAT : EFM-1

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tBP project number: 20987.00

file name: CC_SS_Central.RVT

drawn by: Z. WEN checked by: T. HALL

date: 9.3.2019

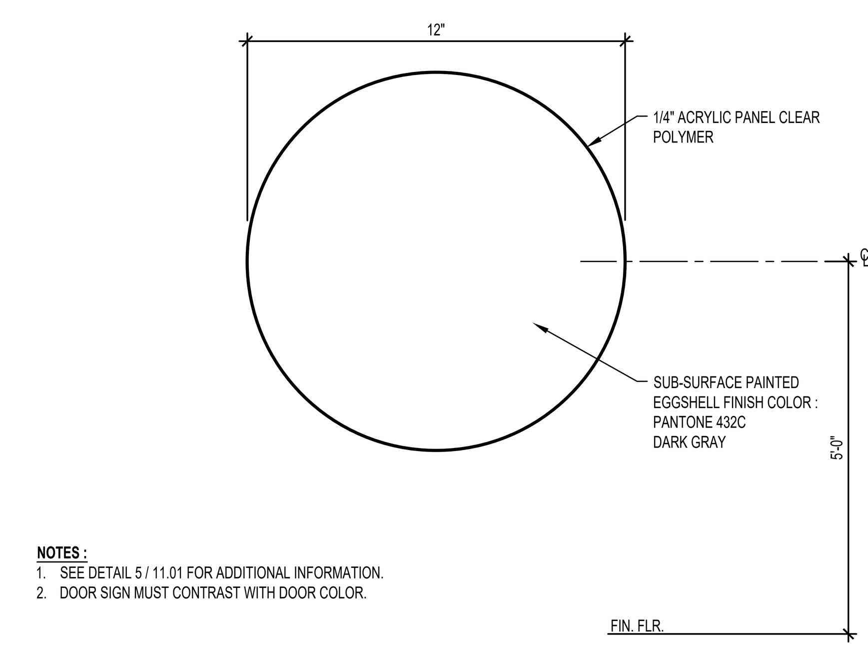
rev:	date:	description:

drawing title:

FLOOR FINISH PLAN - 1ST & 2ND FLR.

drawing no.:

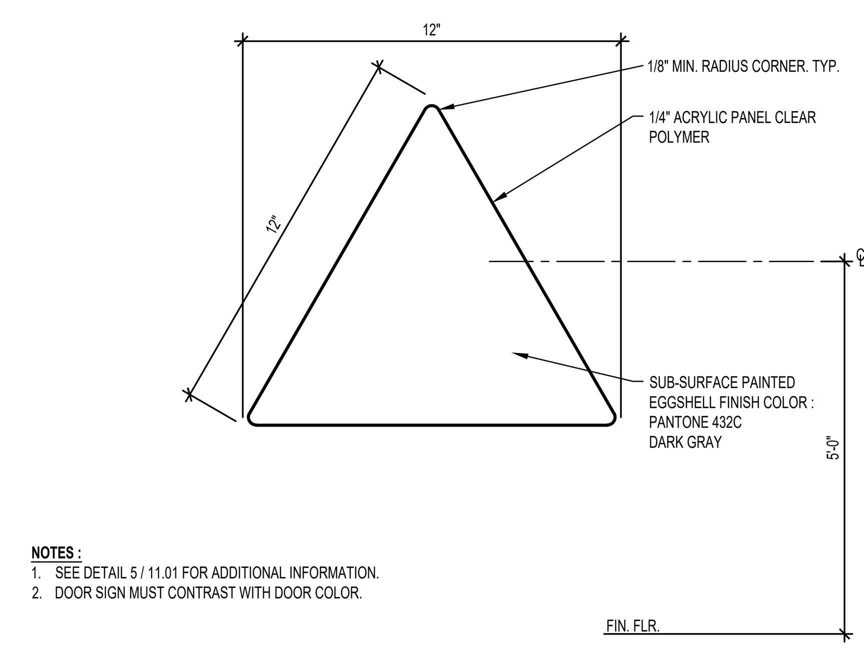
9.11



NOTES :
1. SEE DETAIL 5 / 11.01 FOR ADDITIONAL INFORMATION.
2. DOOR SIGN MUST CONTRAST WITH DOOR COLOR.

FIN. FLR.

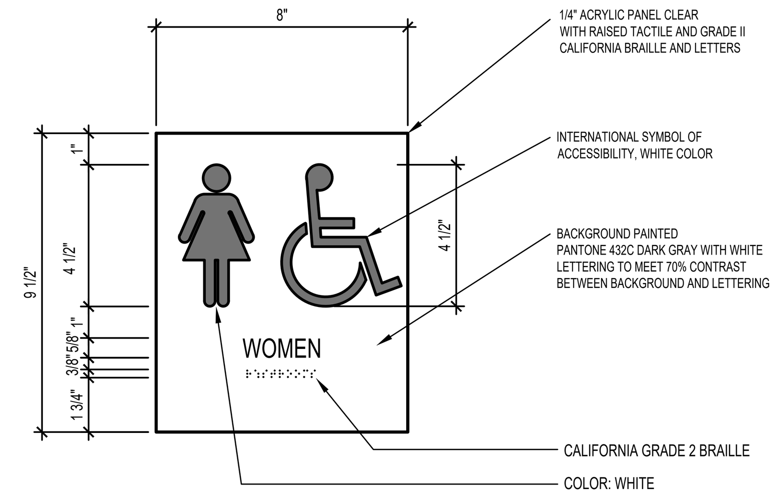
DOOR MNTD. TOILET ROOM SYMBOL (WOMEN) 1
SCALE: 3" = 1'-0"



NOTES :
1. SEE DETAIL 5 / 11.01 FOR ADDITIONAL INFORMATION.
2. DOOR SIGN MUST CONTRAST WITH DOOR COLOR.

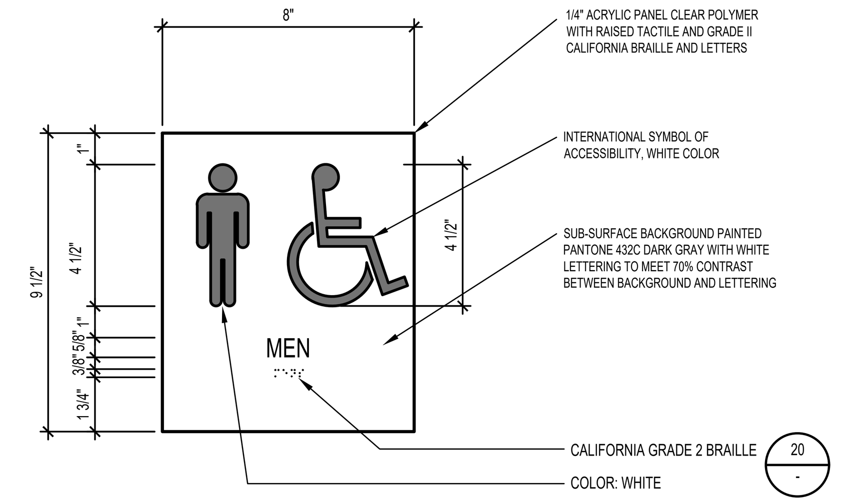
FIN. FLR.

DOOR MNTD. TOILET ROOM SYMBOL (MEN) 2
SCALE: 3" = 1'-0"



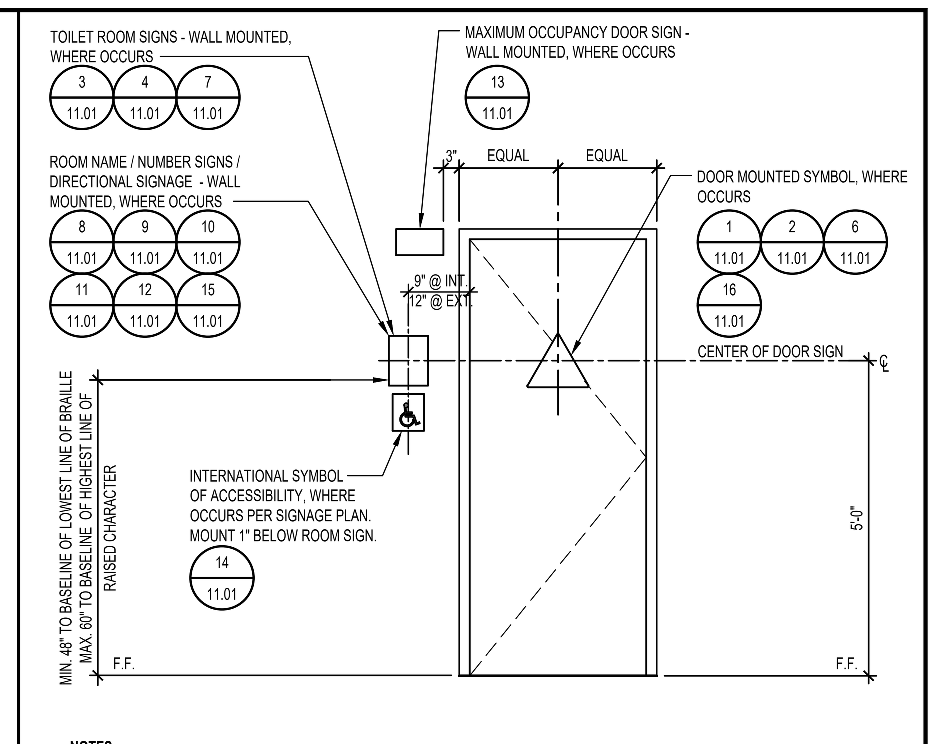
NOTES :
1. SEE DETAIL 5 / 11.01 FOR ADDITIONAL INFORMATION.
2. DOOR SIGN MUST CONTRAST WITH DOOR COLOR.
3. FONT : FRUTIGER 55 ROMAN. OPEN LETTER SPACING TO MEET ADA VISUAL REQUIREMENTS.
4. CENTER TEXT AND CENTER BRAILLE UNDER TEXT (TYP.)

WALL-MOUNTED TOILET ROOM SIGNAGE 3
SCALE: 3" = 1'-0"



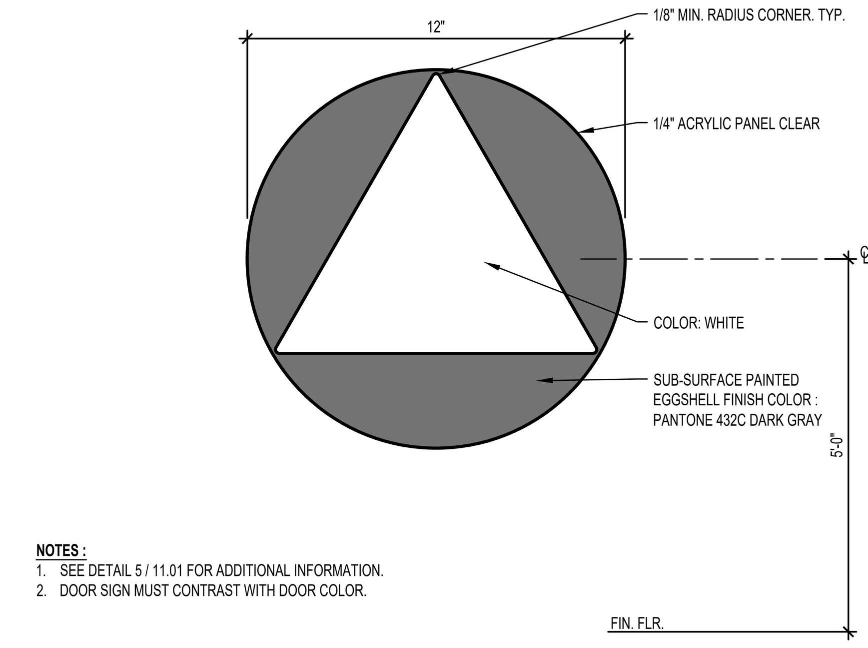
NOTES :
1. SEE DETAIL 5 / 11.01 FOR ADDITIONAL INFORMATION.
2. DOOR SIGN MUST CONTRAST WITH DOOR COLOR.
3. FONT : FRUTIGER 55 ROMAN. OPEN LETTER SPACING TO MEET ADA VISUAL REQUIREMENTS.
4. CENTER TEXT AND CENTER BRAILLE UNDER TEXT (TYP.)

WALL-MOUNTED TOILET ROOM SIGNAGE 4
SCALE: 3" = 1'-0"



NOTES :
1. MOUNT SIGN ON THE WALL ADJACENT TO LATCH SIDE OF DOOR, AT HEIGHT NOTED IN DETAIL ABOVE. WHERE THERE IS NO WALL SPACE ON LATCH SIDE OF DOOR, PLACE SIGNS ON NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT.
2. REFER TO DETAIL 20/- FOR ADDITIONAL SIGNAGE REQUIREMENTS.

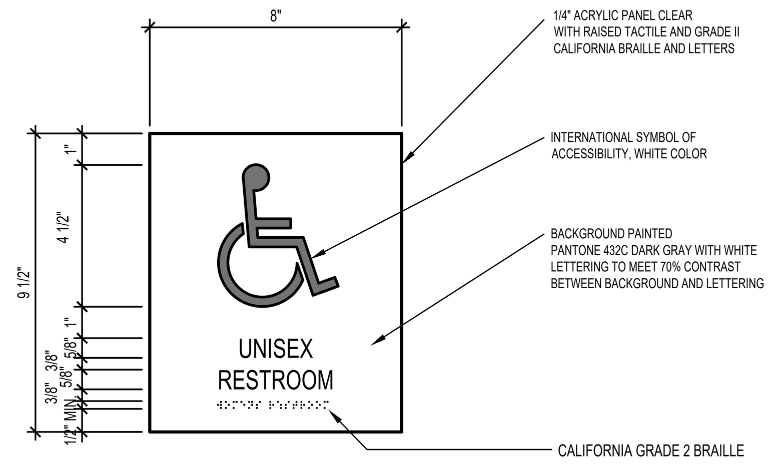
TYPICAL SIGNAGE LOCATION 5
SCALE: 1/2" = 1'-0"



NOTES :
1. SEE DETAIL 5 / 11.01 FOR ADDITIONAL INFORMATION.
2. DOOR SIGN MUST CONTRAST WITH DOOR COLOR.

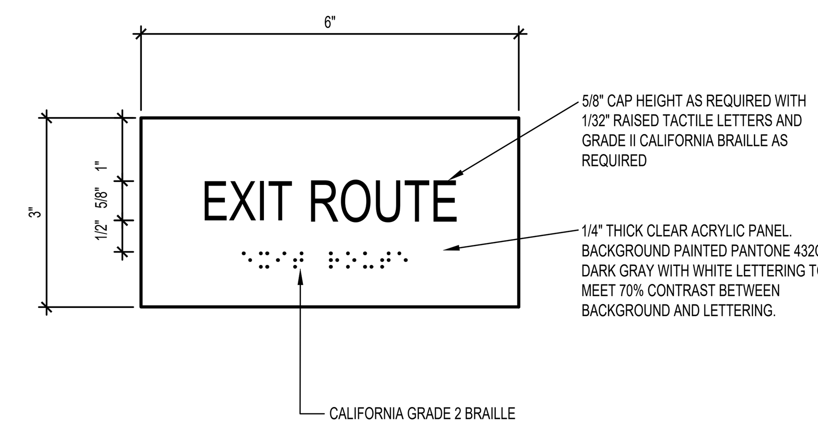
FIN. FLR.

DOOR MOUNTED TOILET ROOM SIGN 6
SCALE: 3" = 1'-0"



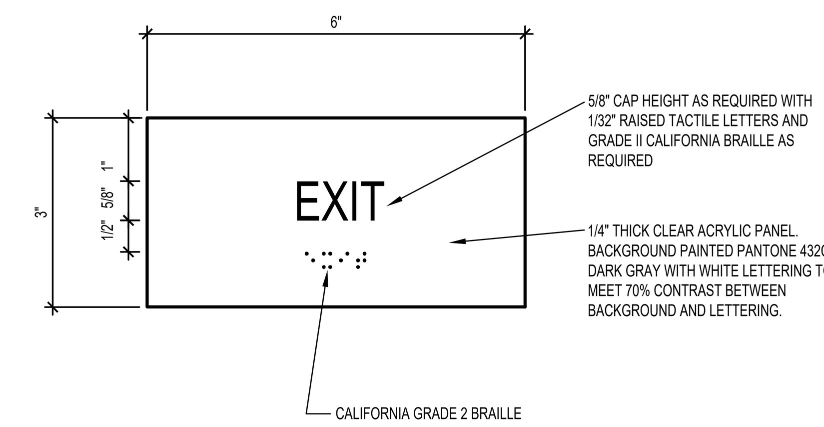
NOTES :
1. SEE DETAIL 5 / 11.01 FOR ADDITIONAL INFORMATION.
2. DOOR SIGN MUST CONTRAST WITH DOOR COLOR.
3. FONT : FRUTIGER 55 ROMAN. OPEN LETTER SPACING TO MEET ADA VISUAL REQUIREMENTS.
4. CENTER TEXT AND CENTER BRAILLE UNDER TEXT (TYP.)

WALL MOUNTED TOILET ROOM SIGN 7
SCALE: 3" = 1'-0"



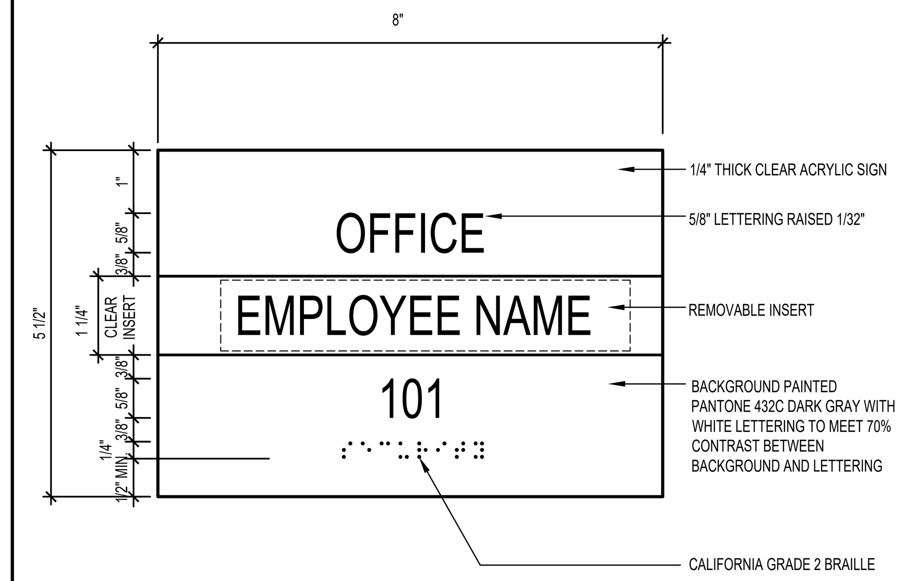
NOTES :
1. SEE DETAIL 5 / 11.01 FOR ADDITIONAL INFORMATION.
2. DOOR SIGN MUST CONTRAST WITH DOOR COLOR.
3. FONT : FRUTIGER 55 ROMAN. OPEN LETTER SPACING TO MEET ADA VISUAL REQUIREMENTS.

TACTILE EXIT ROUTE SIGNAGE 8
SCALE: HALF



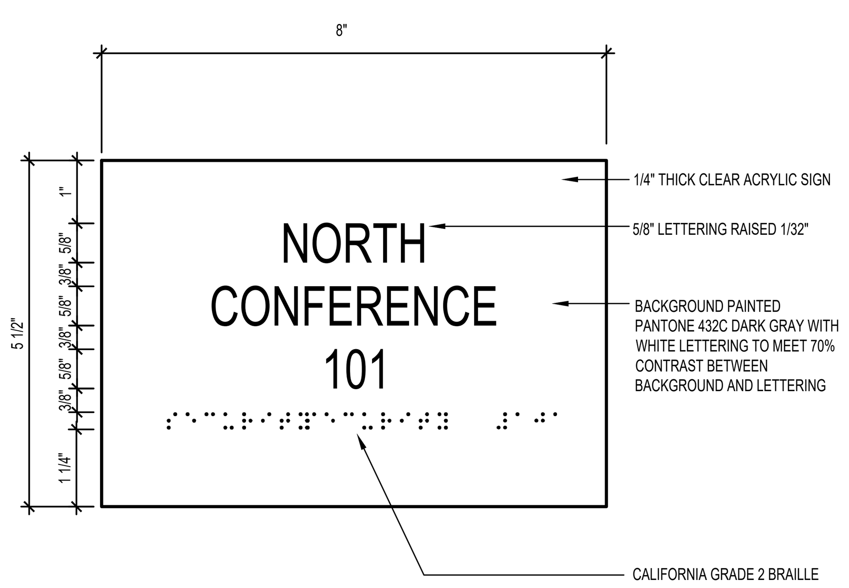
NOTES :
1. SEE DETAIL 5 / 11.01 FOR ADDITIONAL INFORMATION.
2. DOOR SIGN MUST CONTRAST WITH DOOR COLOR.
3. FONT : FRUTIGER 55 ROMAN. OPEN LETTER SPACING TO MEET ADA VISUAL REQUIREMENTS.

TACTILE EXIT SIGNAGE 9
SCALE: HALF



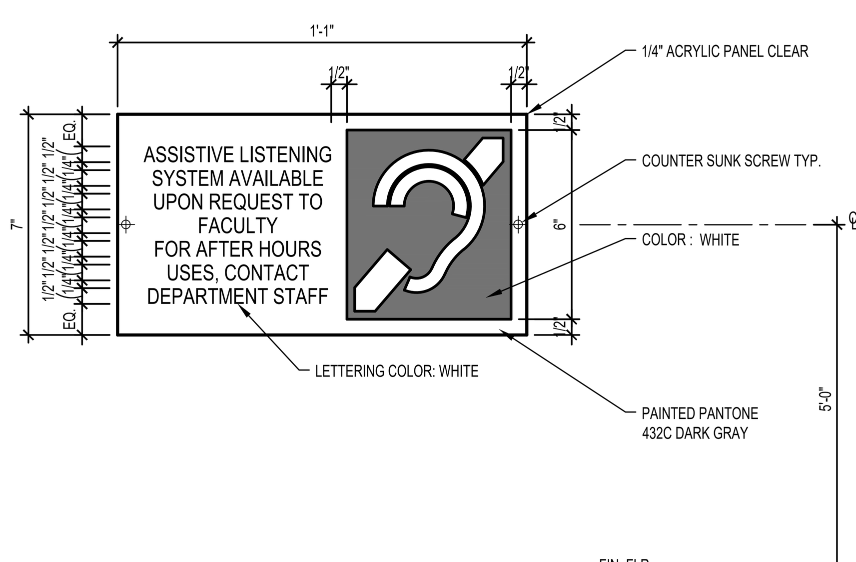
NOTES :
1. SEE DETAIL 5 / 11.01 FOR ADDITIONAL INFORMATION.
2. DOOR SIGN MUST CONTRAST WITH DOOR COLOR.
3. FONT : FRUTIGER 55 ROMAN. OPEN LETTER SPACING TO MEET ADA VISUAL REQUIREMENTS.
4. VERIFY TEXT W/ DOOR SCHEDULE, CONFIRM W/ OWNER.

ROOM NAME / NUMBER SIGN WITH INSERT 10
SCALE: HALF



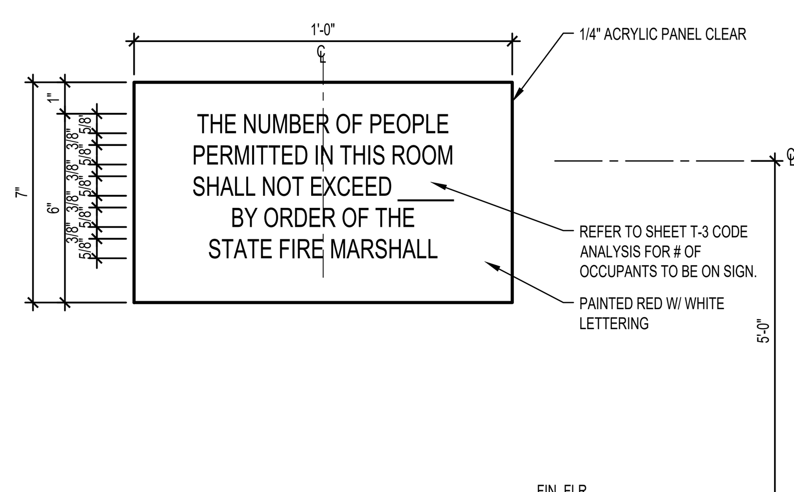
NOTES :
1. SEE DETAIL 5 / 11.01 FOR ADDITIONAL INFORMATION.
2. DOOR SIGN MUST CONTRAST WITH DOOR COLOR.
3. FONT : FRUTIGER 55 ROMAN. OPEN LETTER SPACING TO MEET ADA VISUAL REQUIREMENTS.
4. VERIFY TEXT W/ DOOR SCHEDULE, CONFIRM W/ OWNER

ROOM NAME / NUMBER SIGN 11
SCALE: HALF



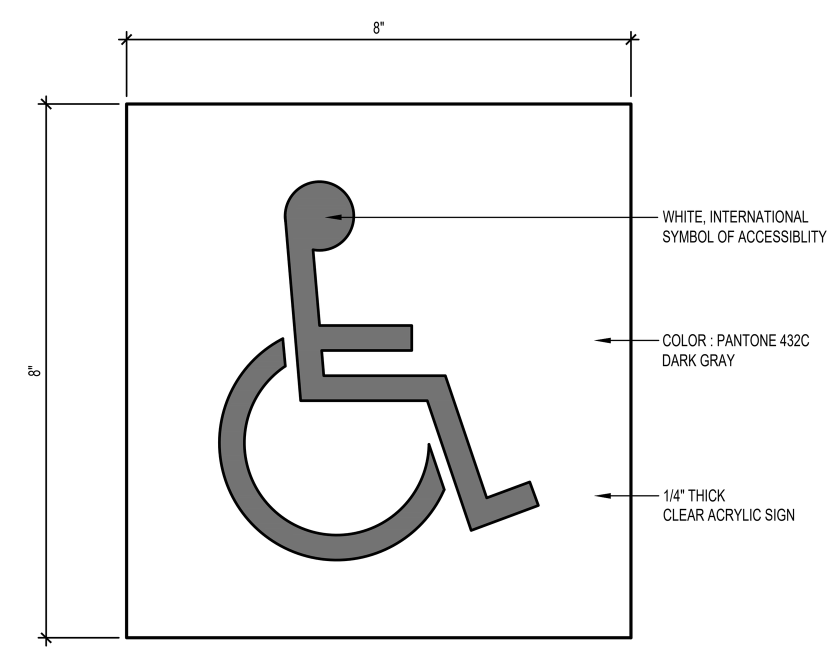
NOTES :
1. SEE DETAIL 5 / 11.01 FOR ADDITIONAL INFORMATION.
2. FONT : FRUTIGER 55 ROMAN. OPEN LETTER SPACING TO MEET ADA VISUAL REQUIREMENTS.

ASSISTIVE-LISTENING DEVICE SIGNAGE 12
SCALE: 3" = 1'-0"

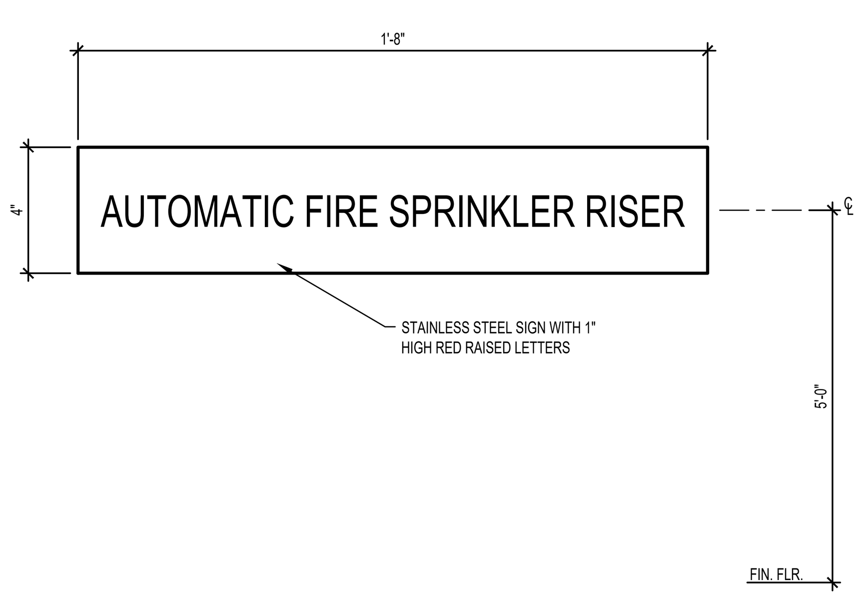


NOTES :
1. SEE DETAIL 5 / 11.01 FOR ADDITIONAL INFORMATION.
2. DOOR SIGN MUST CONTRAST WITH DOOR COLOR.
3. FONT : FRUTIGER 55 ROMAN. OPEN LETTER SPACING TO MEET ADA VISUAL REQUIREMENTS.

MAXIMUM OCCUPANCY SIGN 13
SCALE: 3" = 1'-0"

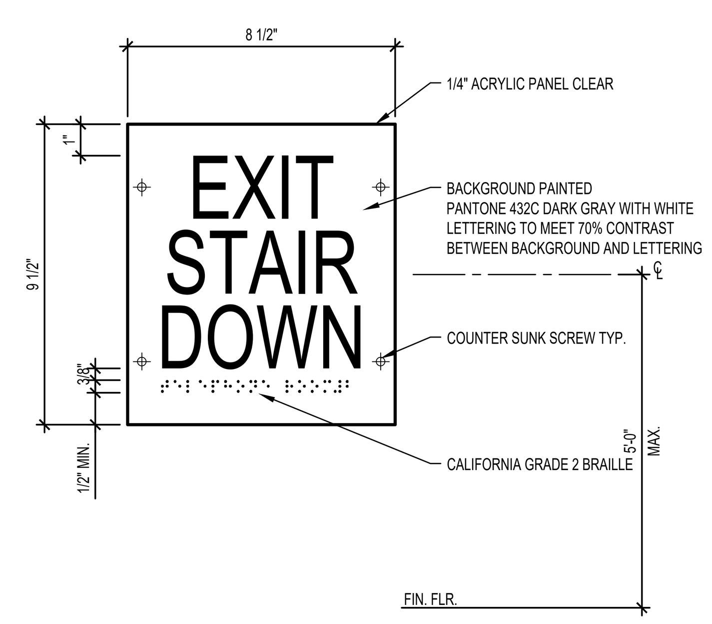


INTERNATIONAL SYMBOL OF ACCESSIBILITY 14
SCALE: HALF



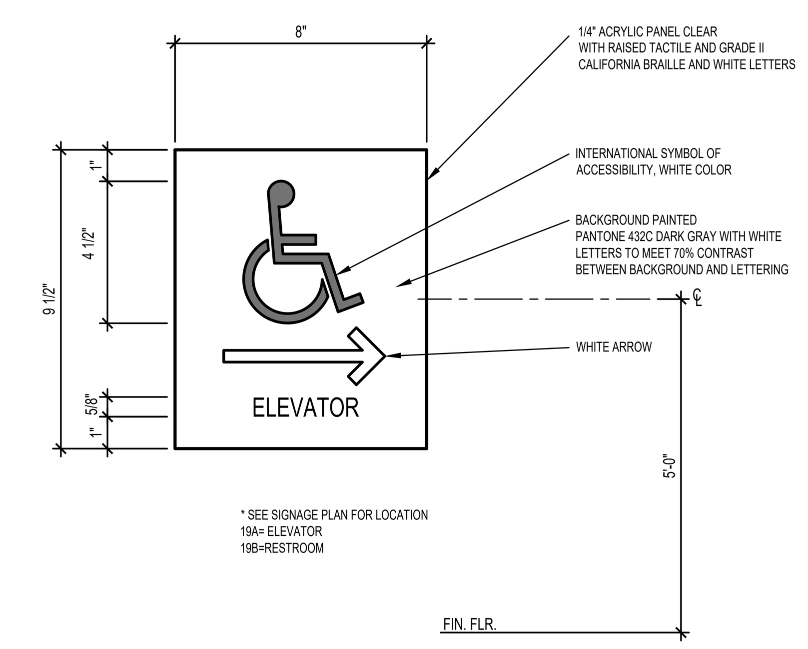
NOTES :
1. SEE DETAIL 5 / 11.01 FOR ADDITIONAL INFORMATION.
2. DOOR SIGN MUST CONTRAST WITH DOOR COLOR.
3. FONT : FRUTIGER 55 ROMAN. OPEN LETTER SPACING TO MEET ADA VISUAL REQUIREMENTS.

FIRE SPRINKLER RISER SIGN 16
SCALE: 3" = 1'-0"



NOTES :
1. SEE DETAIL 5 / 11.01 FOR ADDITIONAL INFORMATION.
2. DOOR SIGN MUST CONTRAST WITH DOOR COLOR.
3. FONT : FRUTIGER 55 ROMAN. OPEN LETTER SPACING TO MEET ADA VISUAL REQUIREMENTS.

TACTILE EXIT ROUTE SIGNAGE 18
SCALE: 3" = 1'-0"



NOTES :
1. SEE DETAIL 5 / 11.01 FOR ADDITIONAL INFORMATION.
2. FONT : FRUTIGER 55 ROMAN. OPEN LETTER SPACING TO MEET ADA VISUAL REQUIREMENTS.
3. DETAIL REFERENCE 15A IS FOR RESTROOM DIRECTIONAL ROUTE SIGNAGE - REFER TO SIGNAGE PLANS FOR LOCATION. LETTERING ON SIGN TO BE "RESTROOM".

DIRECTIONAL ROUTE SIGNAGE 19
SCALE: 3" = 1'-0"

SIGNAGE GENERAL NOTES

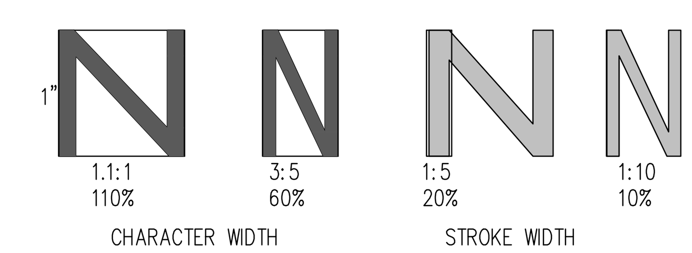
1. CHARACTER TYPE: CHARACTERS ON SIGN SHALL BE RAISED 1/32" MINIMUM AND SHALL BE SANS SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE 2 CONTRACTED BRAILLE.

2. CHARACTER SIZE: RAISED CHARACTERS SHALL BE A MINIMUM OF 5/8" AND A MAXIMUM OF 2" HIGH.

3. FINISH AND CONTRAST: CONTRAST BETWEEN CHARACTERS, SYMBOLS AND THEIR BACKGROUND MUST BE 70% MINIMUM AND HAVE A NON-GLARE FINISH. 11B-703.5.1

4. PROPORTIONS: CHARACTERS ON SIGNS SHALL HAVE A WIDTH-TO-HEIGHT RATIO OF BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH-TO-HEIGHT RATIO OF BETWEEN 1:5 AND 1:10. 11B-703.5.4

ALL LETTERS MEASURED MUST BE UPPERCASE. AFTER CHOOSING A TYPESTYLE TO TEST, BEGIN BY PRINTING THE LETTERS I, X, AND O AT 1" HIGH. PLACE THE TEMPLATE'S 1:1 SQUARE OVER THE X OR O, WHICHEVER IS NARROWER. IF THE CHARACTER IS NOT WIDER THAN 1" NOR NARROWER THAN THE 3:5 RECTANGLE, THE PROPORTIONS ARE CORRECT. USE THE 1:5 RECTANGLE TO DETERMINE IF THE STROKE OF THE I IS TOO BROAD, AND THE 1:10 RECTANGLE TO SEE IF IT IS TOO NARROW. IF ALL THE TESTS ARE PASSED, THE TYPESTYLE IS COMPLIANT WITH PROPORTION CODE.

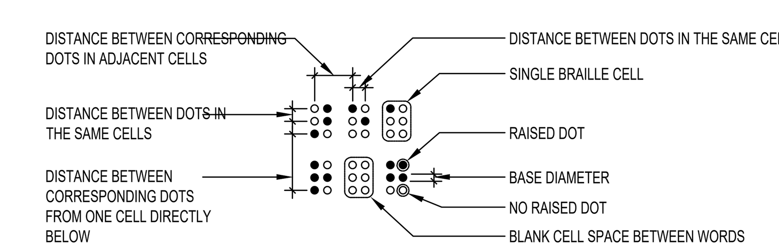


BRAILLE

11B-703.3 BRAILLE. BRAILLE SHALL BE CONTRACTED (GRADE 2) AND SHALL COMPLY WITH SECTIONS 11B-703.3 AND 11B-703.4.

11B-703.3.1 DIMENSIONS AND CAPITALIZATION. BRAILLE DOTS SHALL HAVE A DOMED OR ROUNDED SHAPE AND SHALL COMPLY WITH TABLE 11B-703.3.1. THE INDICATION OF AN UPPERCASE LETTER OR LETTERS SHALL ONLY BE USED BEFORE THE FIRST WORD OF SENTENCES, PROPER NOUNS AND NAMES, INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS, AND ACRONYMS.

11B-703.3.2 POSITION. BRAILLE SHALL BE POSITIONED BELOW THE CORRESPONDING TEXT IN A HORIZONTAL FORMAT, FLUSH LEFT OR CENTERED. IF TEXT IS MULTI-LINED, BRAILLE SHALL BE PLACED BELOW THE ENTIRE TEXT. BRAILLE SHALL BE SEPARATED 3/8 INCH (9.5 MM) MINIMUM AND 1/2 INCH (12.7 MM) MAXIMUM FROM ANY OTHER TACTILE CHARACTERS AND 3/8 INCH (9.5 MM) MINIMUM FROM RAISED BORDERS AND DECORATIVE ELEMENTS.



BRAILLE DIMENSIONS - TABLE 11B-703.3.1

MEASUREMENT RANGE	MINIMUM IN INCHES MAXIMUM IN INCHES
DOT BASE DIAMETER	0.059 (1.5 MM) TO 0.063 (1.6 MM)
DISTANCE BETWEEN TWO DOTS IN THE SAME CELL	0.100 (2.5 MM)
DISTANCE BETWEEN CORRESPONDING DOTS IN ADJACENT CELLS	0.300 (7.6 MM)
DOT HEIGHT	0.025 (0.6 MM) TO 0.037 (0.9 MM)
DISTANCE BETWEEN CORRESPONDING DOTS FROM ONE CELL DIRECTLY BELOW	0.395 (10 MM) TO 0.400 (10.2 MM)

TYPICAL SIGNAGE NOTES 20
SCALE: NONE

IDENTIFICATION STAMP
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APP. 03-119686 INC:
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DATE: 10/14/2019

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COMPTON, CA 90221

owner

tBP project number : 20987.00
file name: DTL-1101.DWG
drawn by: tBP checked by: T. HALL
date: 9.3.2019

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drawing title:
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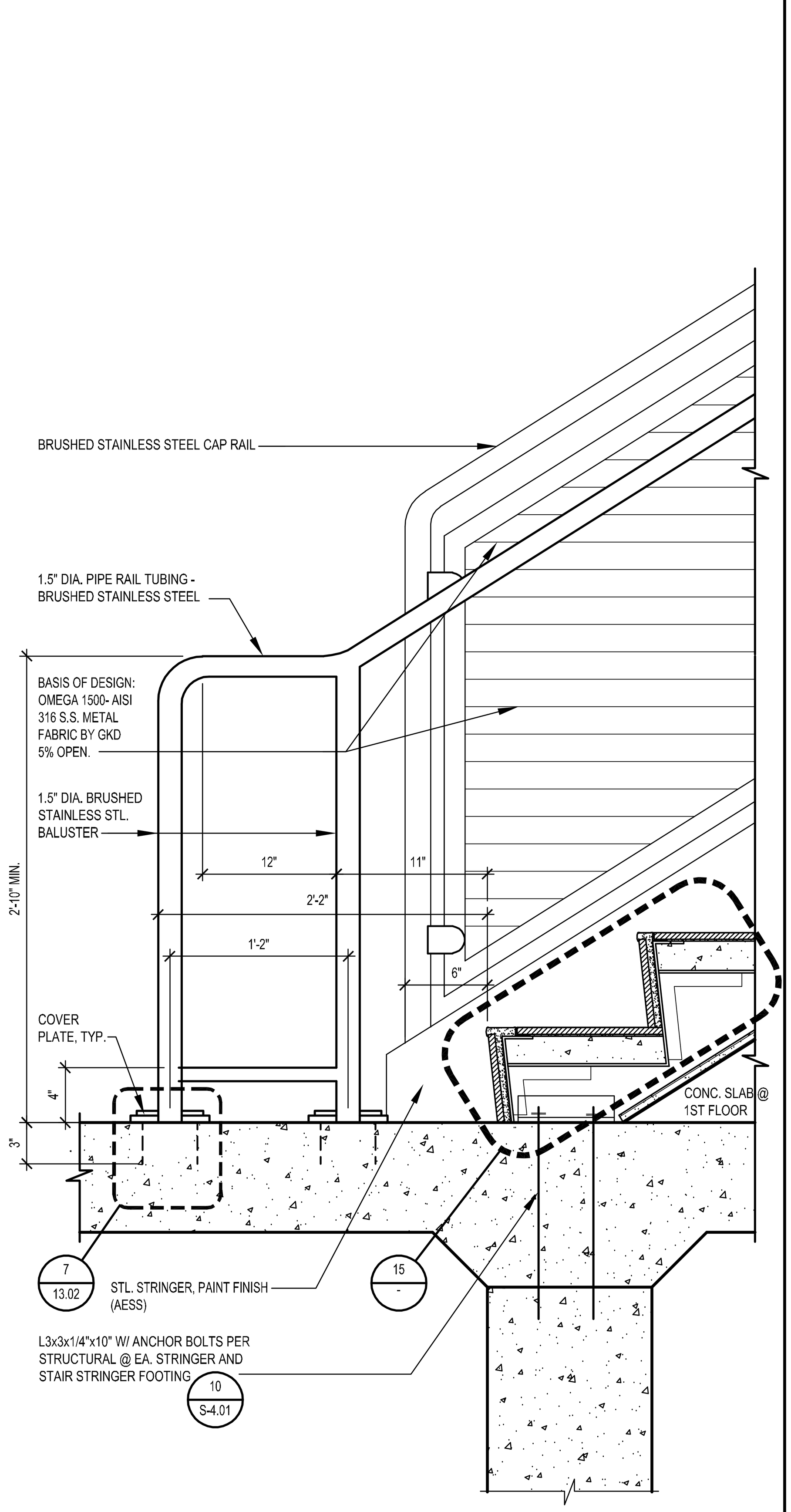
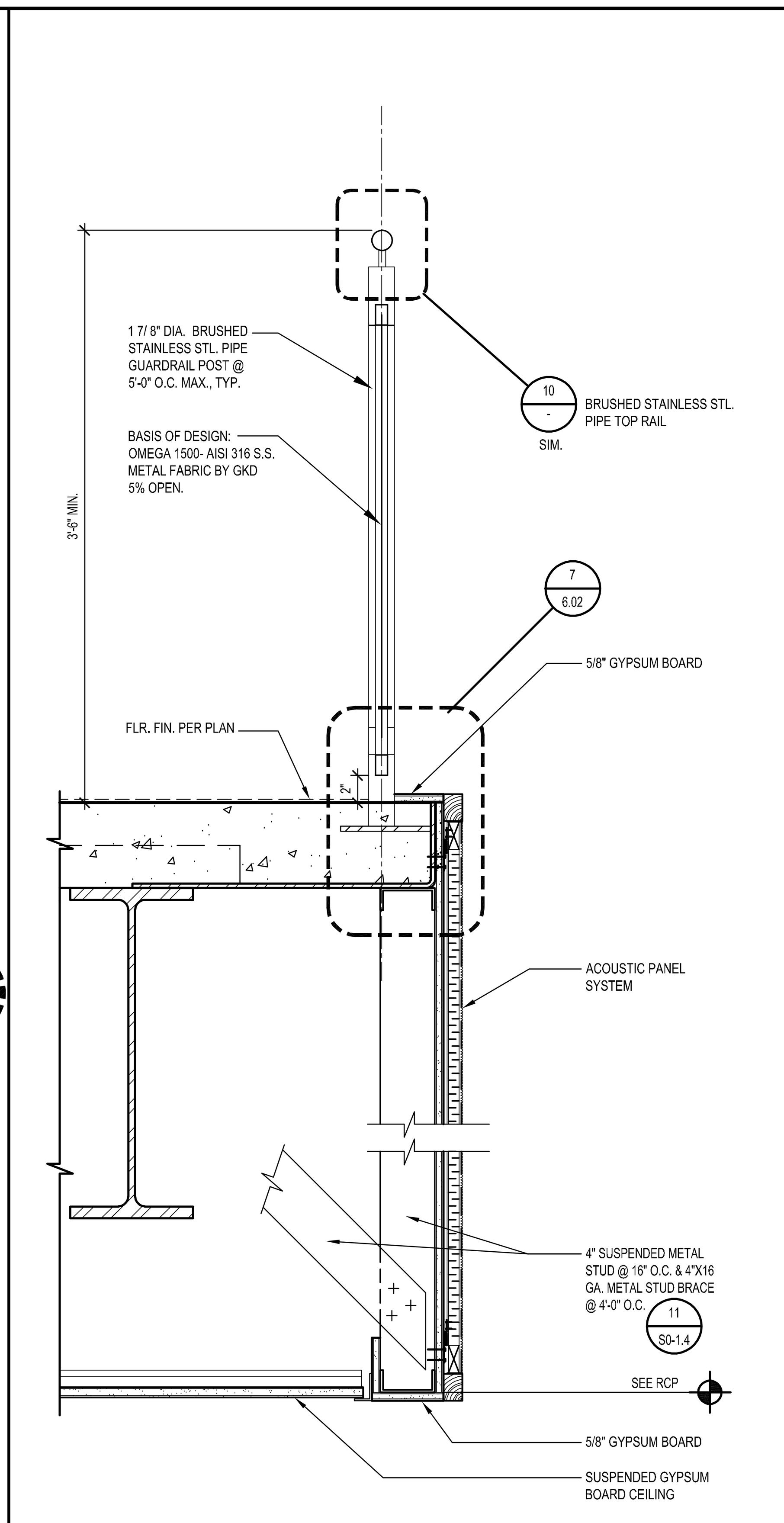
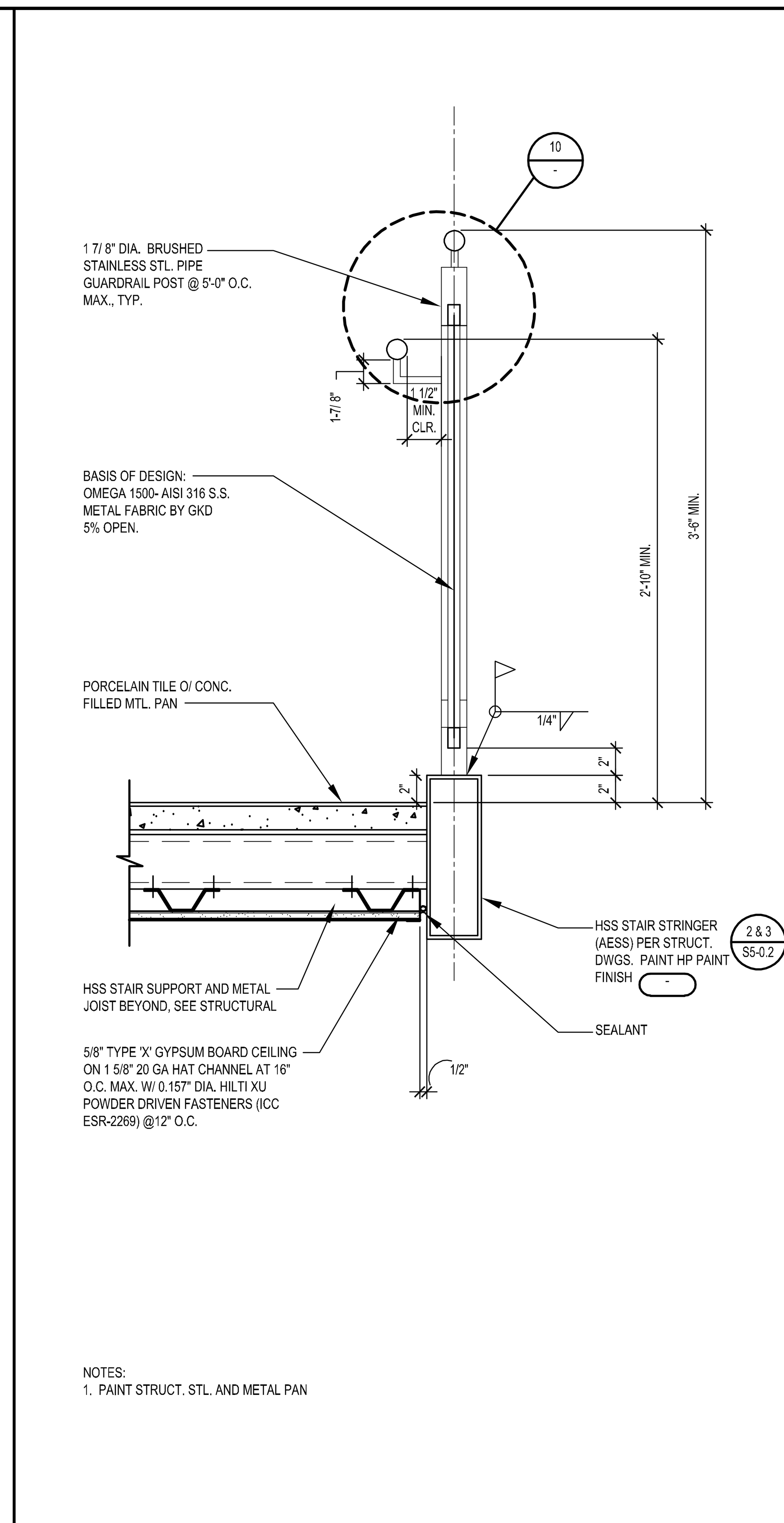


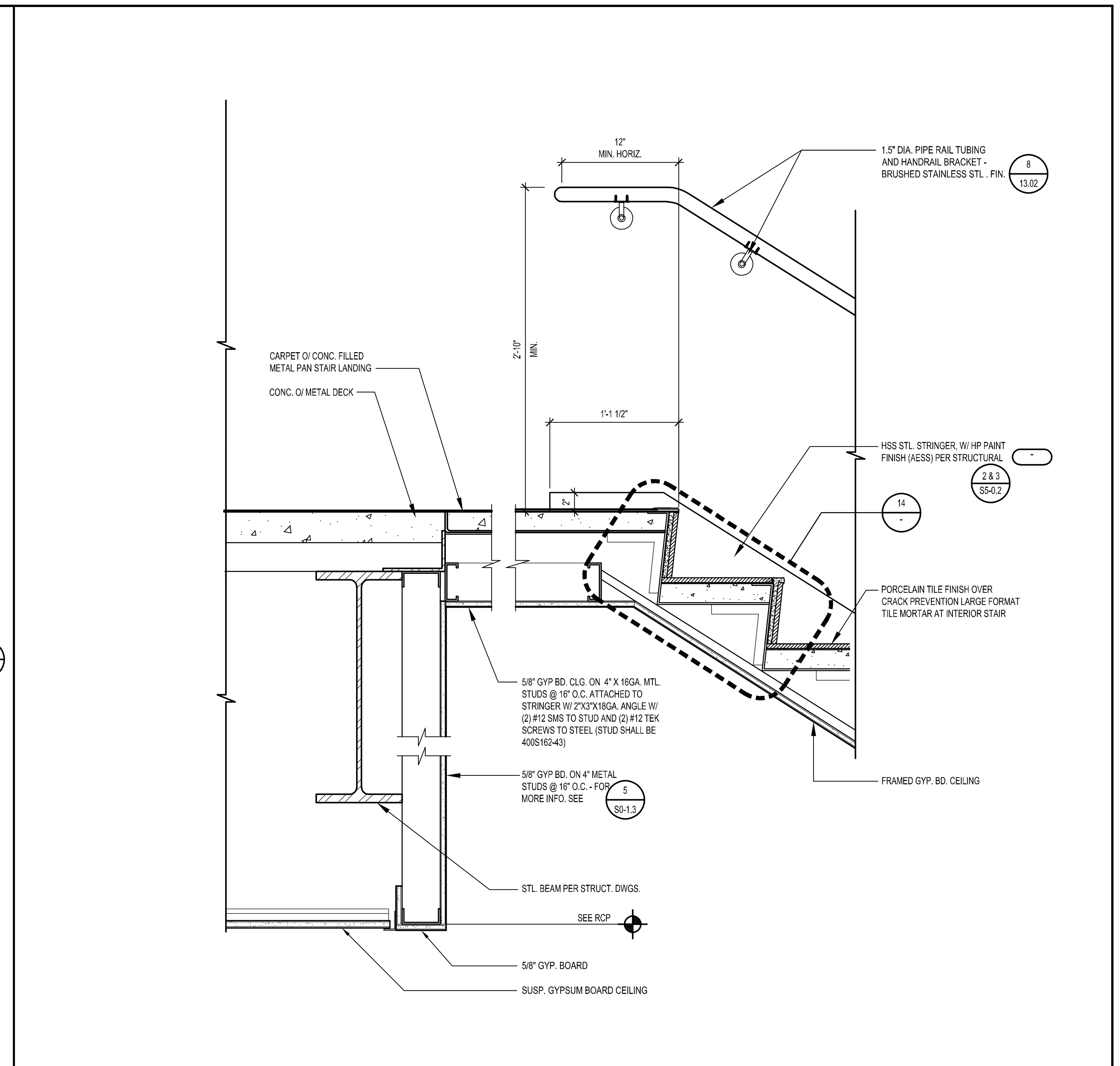
STAIR @ LOWER LANDING 1
SCALE: 1-1/2" = 1'-0"



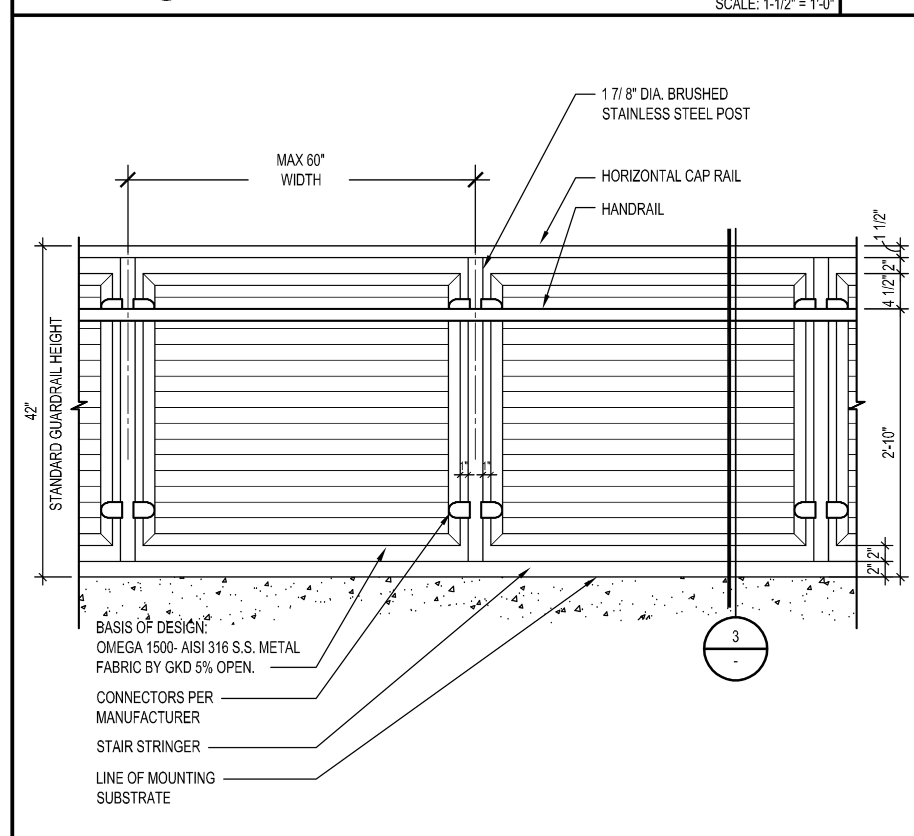
SECTION - STAIR UPPER GUARDRAIL 2
SCALE: 1-1/2" = 1'-0"



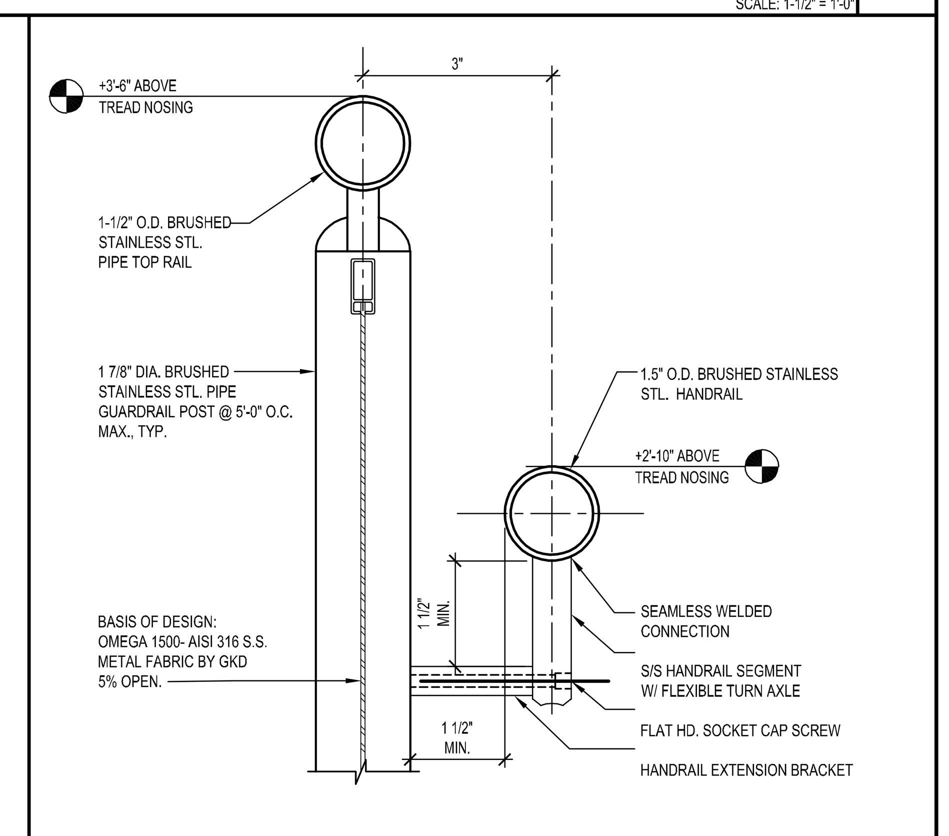
TYPICAL GUARDRAIL AND HANDRAIL @ LANDING 3
SCALE: 1-1/2" = 1'-0"



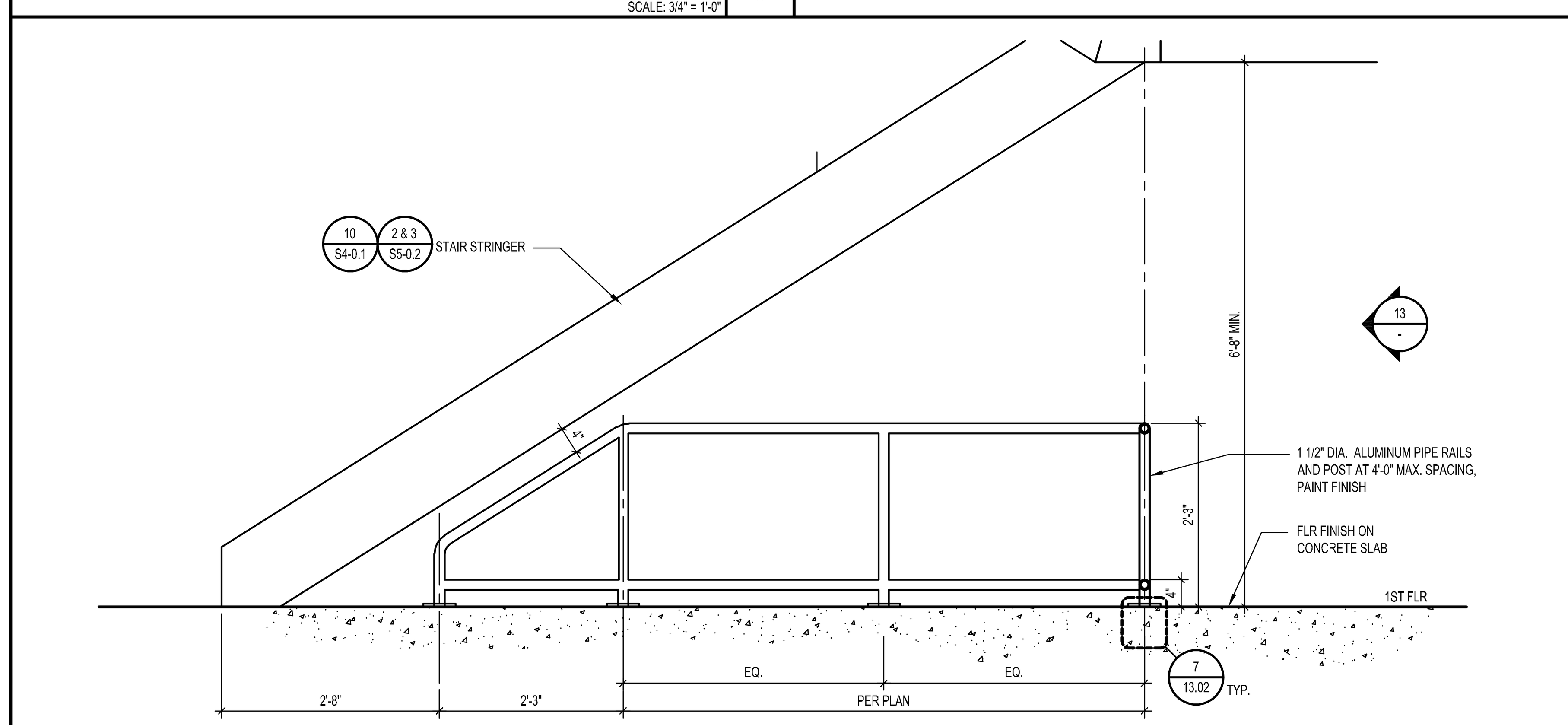
SECTION - STAIR #1 UPPER LANDING 5
SCALE: 1-1/2" = 1'-0"



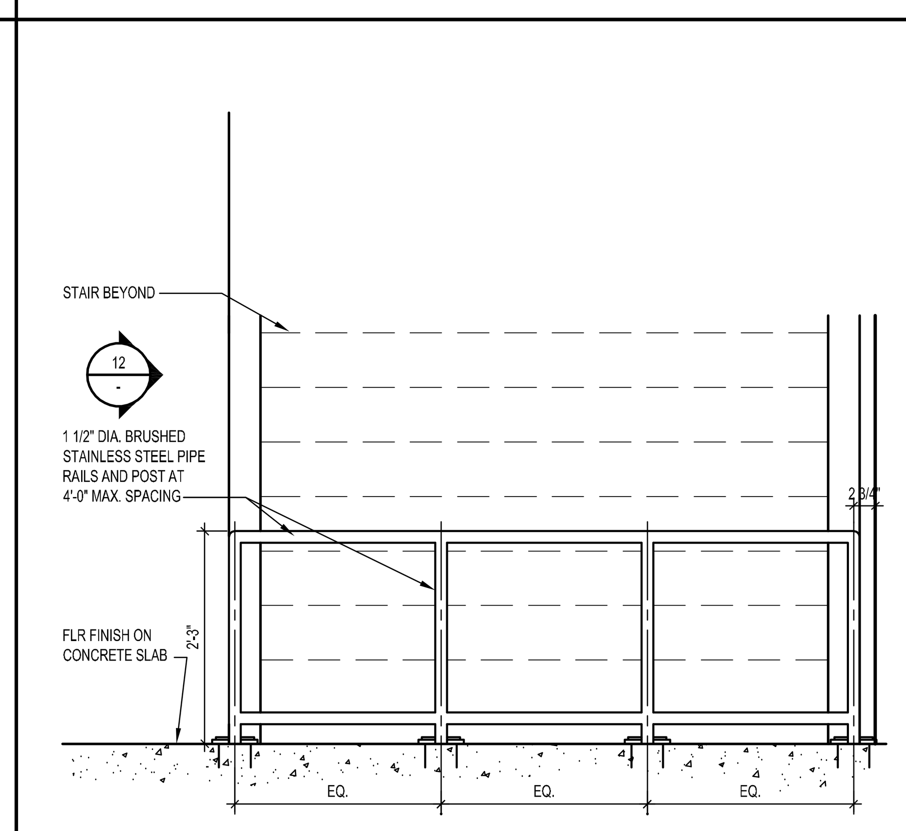
TYPICAL METAL MESH GUARDRAIL ELEVATION 6
SCALE: 3/4" = 1'-0"



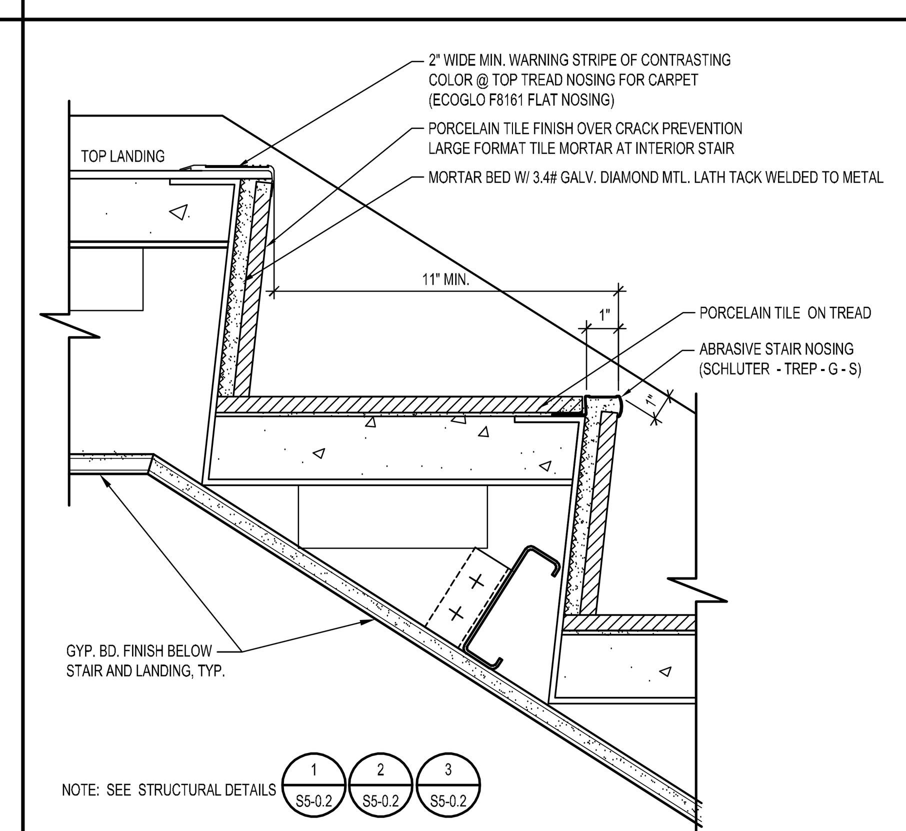
GUARDRAIL & HANDRAIL - SECTION 10
SCALE: HALF



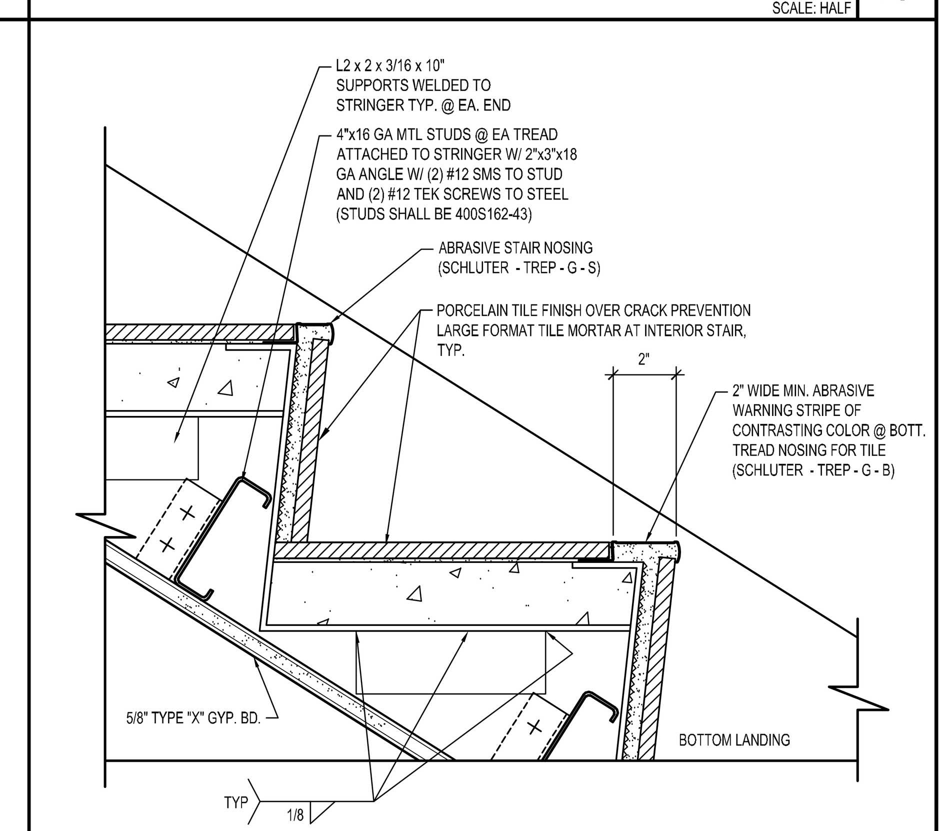
GUARDRAIL BARRIER BELOW STAIR - SIDE ELEVATION 12
SCALE: 3/4" = 1'-0"



GUARDRAIL BARRIER BELOW STAIR - ELEVATION 13
SCALE: 3/4" = 1'-0"



NOSING DETAIL @ TOP LANDING 14
SCALE: 3" = 1'-0"



NOSING DETAIL @ BOTTOM LANDING 15
SCALE: 3" = 1'-0"

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owner

tBP project number : 20987.00
file name: DTL-1301.DWG
drawn by: tBP checked by: T. HALL
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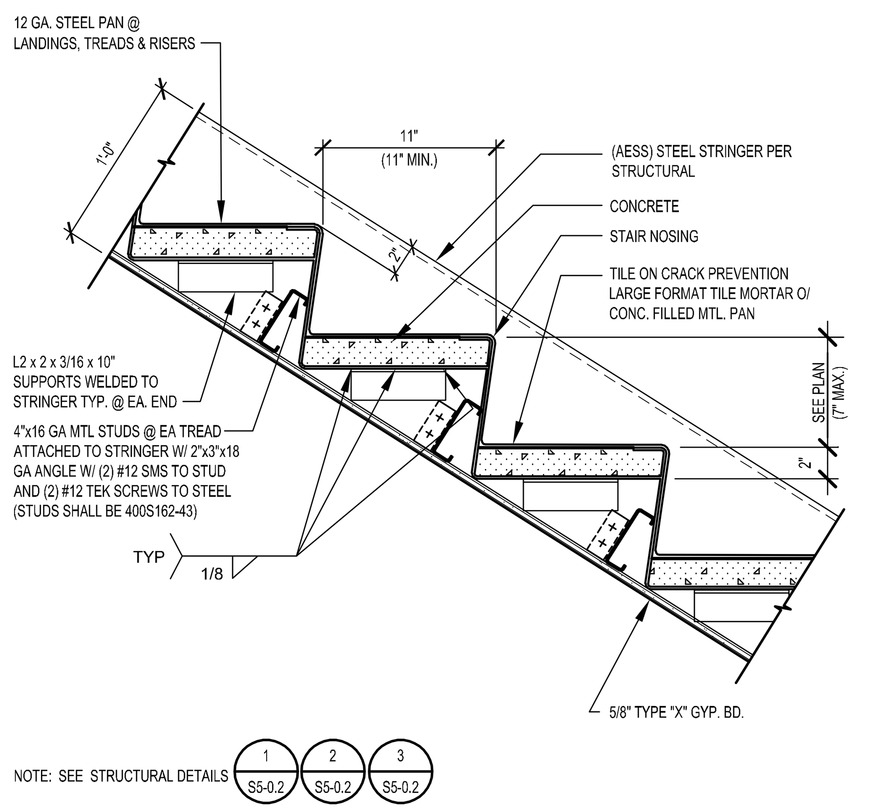
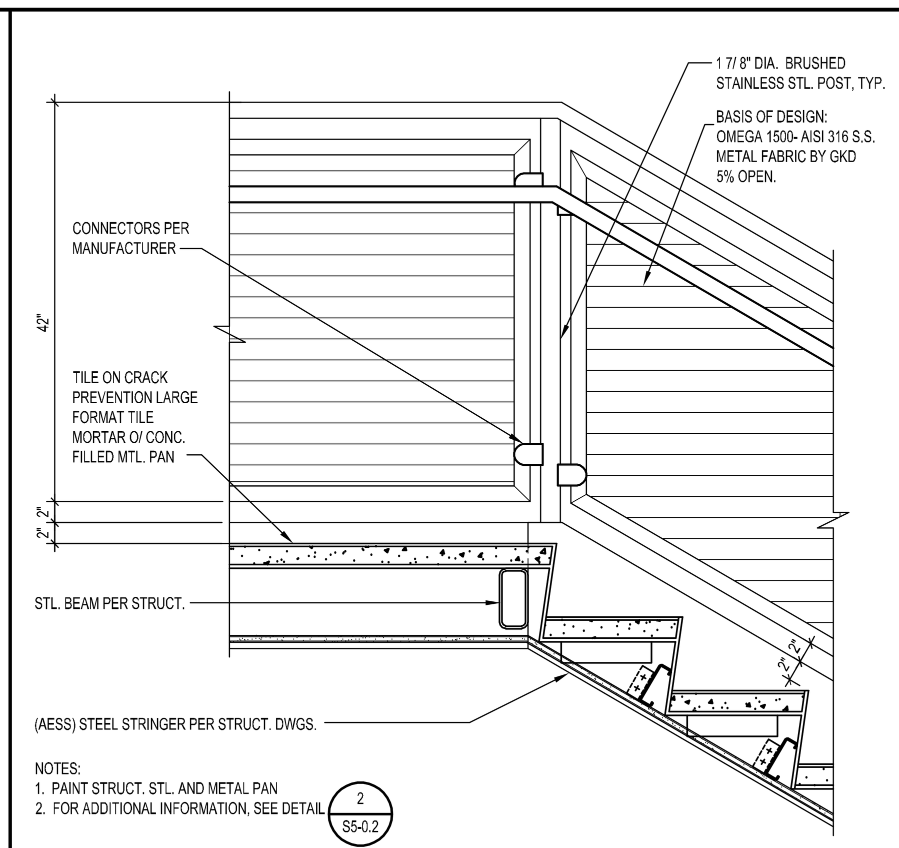
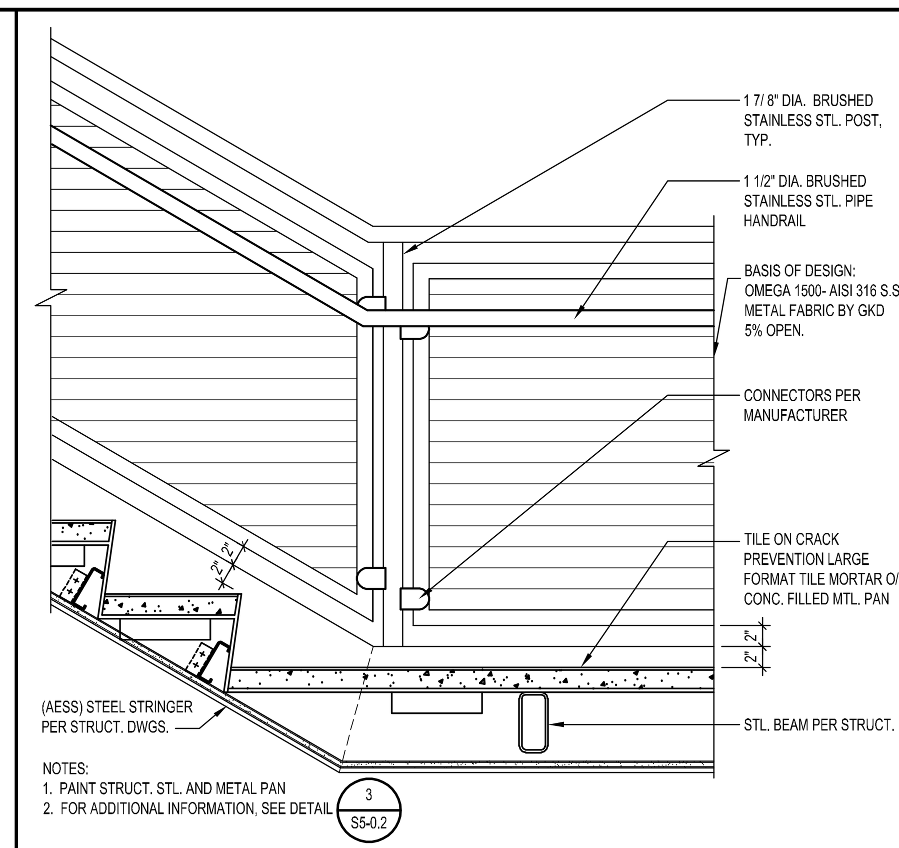


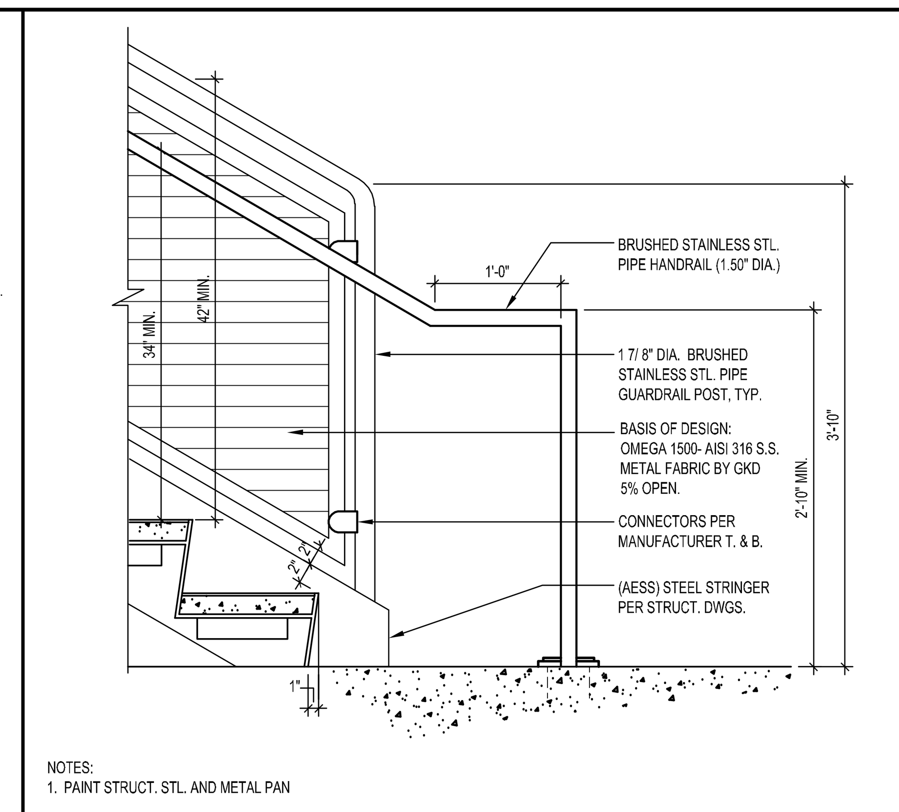
STAIR TYPICAL TREAD AND RISER 1
SCALE: 1-1/2" - 1'-0"



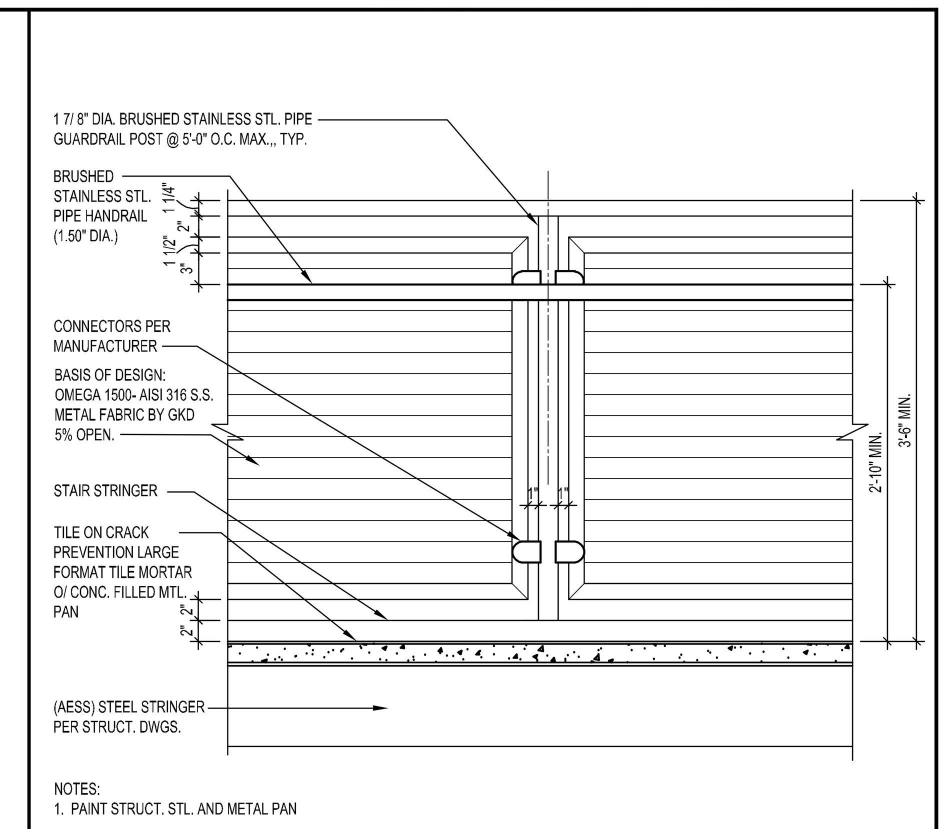
STAIR HANDRAIL & GUARDRAIL DOWN - INTERMED. LANDING 2
SCALE: 1" = 1'-0"



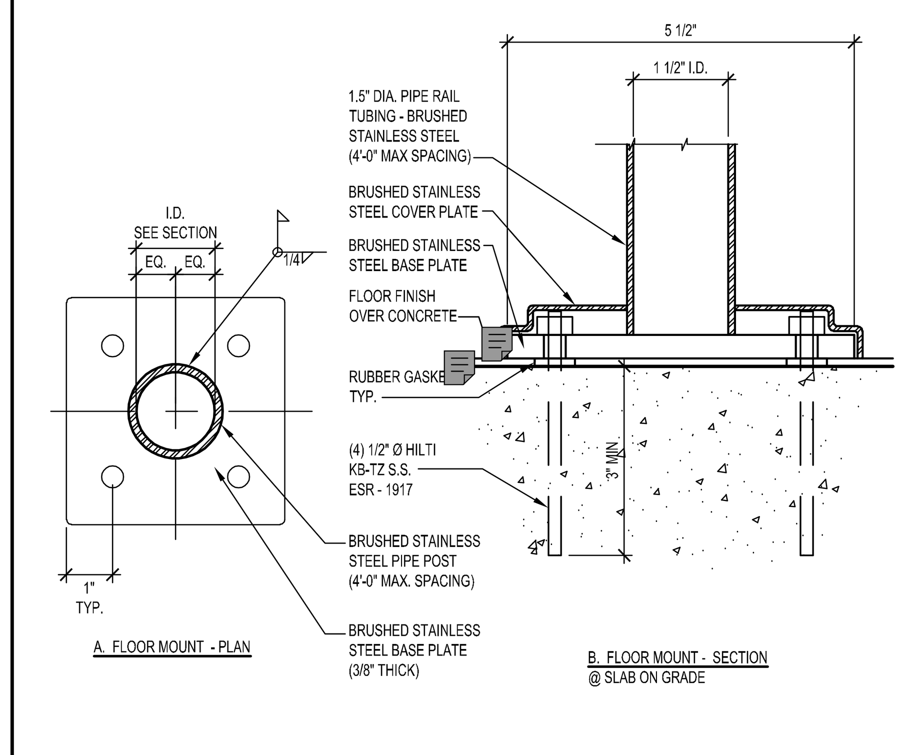
STAIR HANDRAIL & GUARDRAIL UP - INTERMED. LANDING 3
SCALE: 1" = 1'-0"



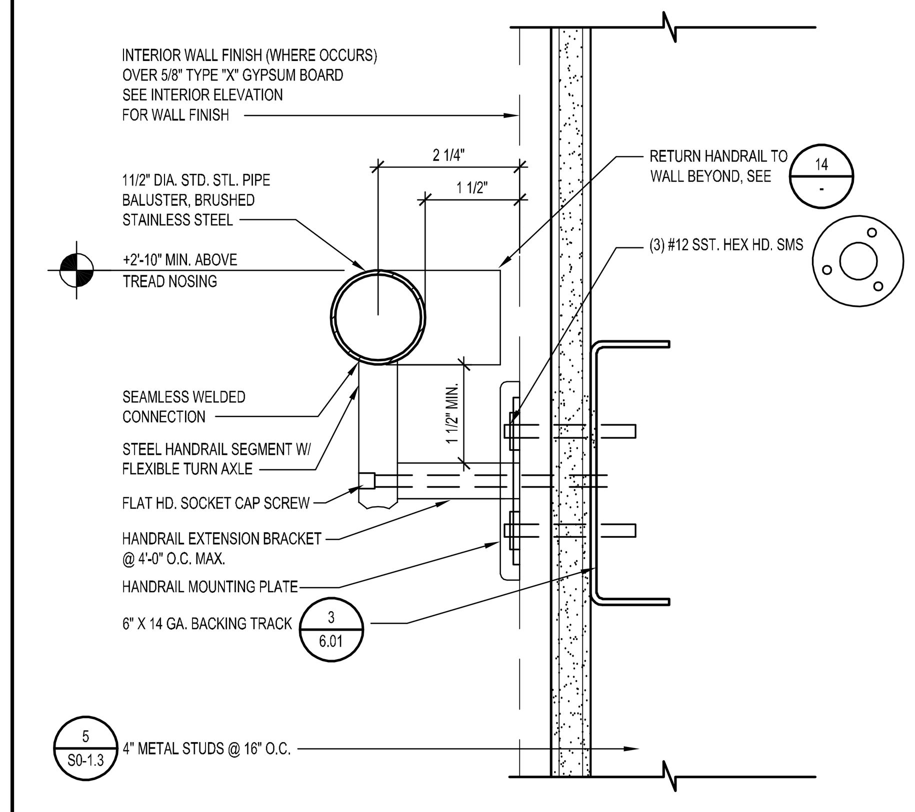
STAIR HANDRAIL & GUARDRAIL UP - LOWER LANDING 4
SCALE: 1" = 1'-0"



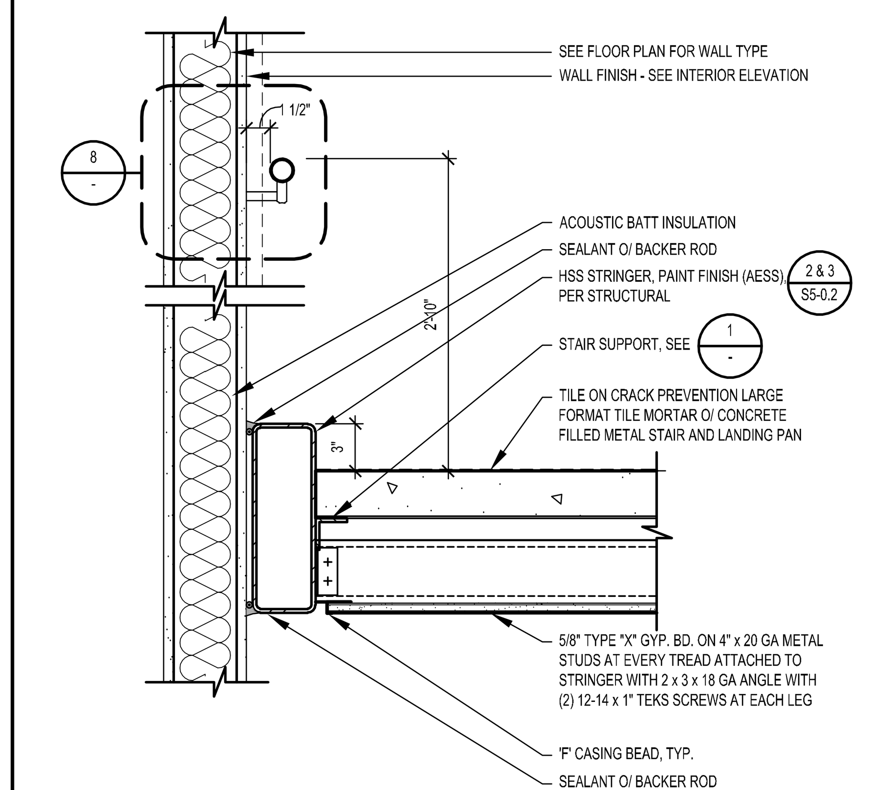
STAIR LANDING - TYP. GUARDRAIL ELEVATION 5
SCALE: 1" = 1'-0"



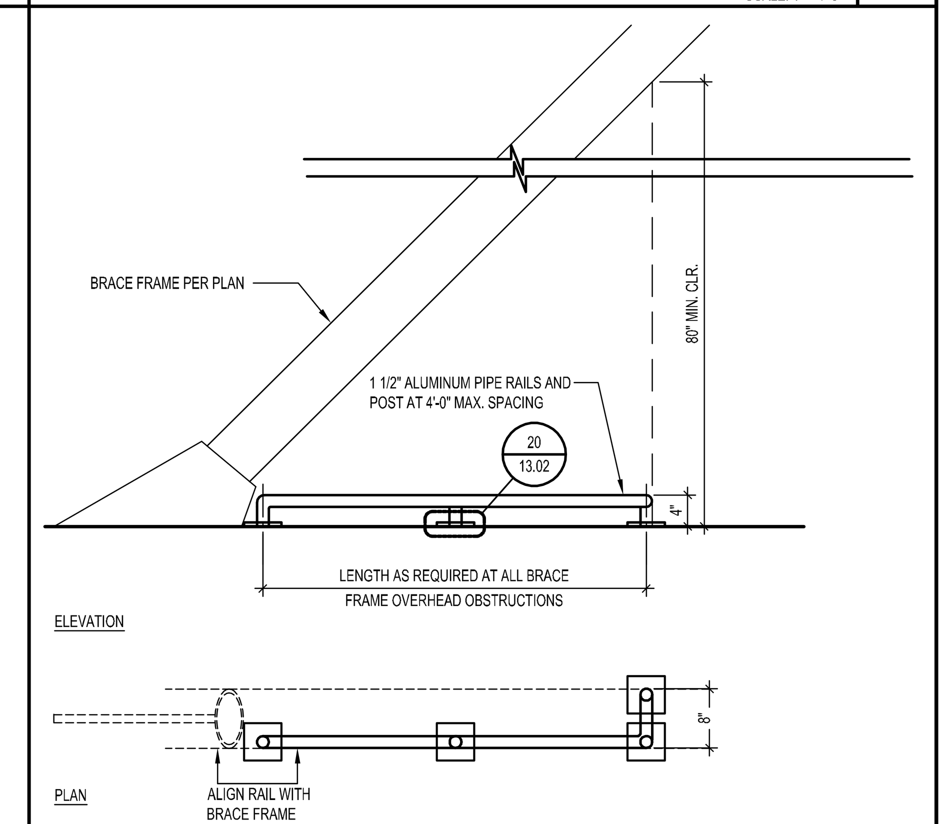
BALUSTER - ROUND POST MOUNT @ SLAB 7
SCALE: HALF



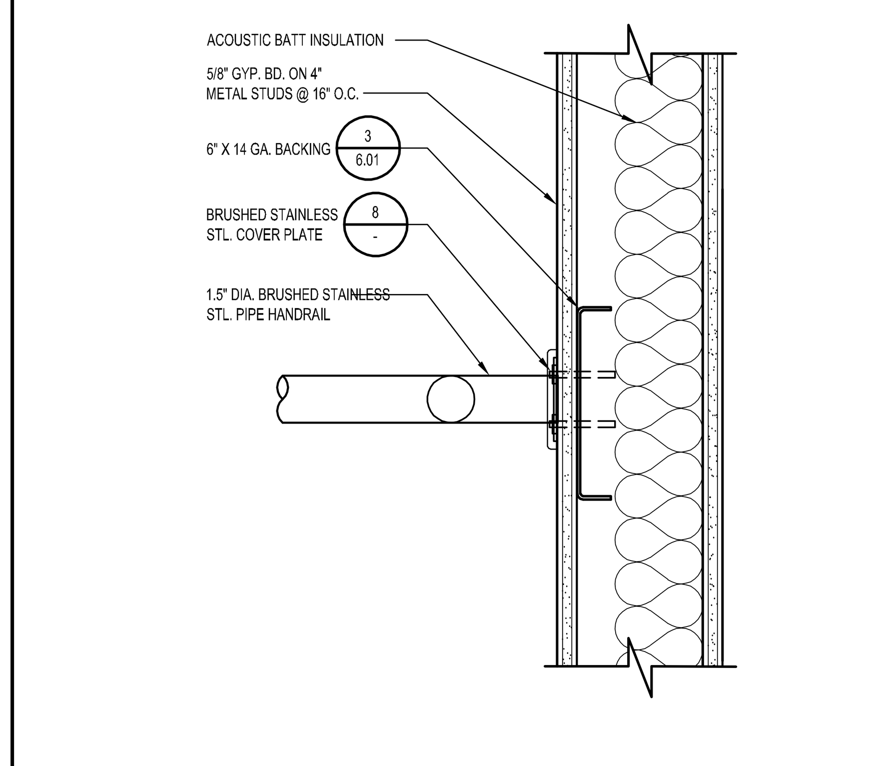
WALL MOUNTED HANDRAIL 8
SCALE: HALF



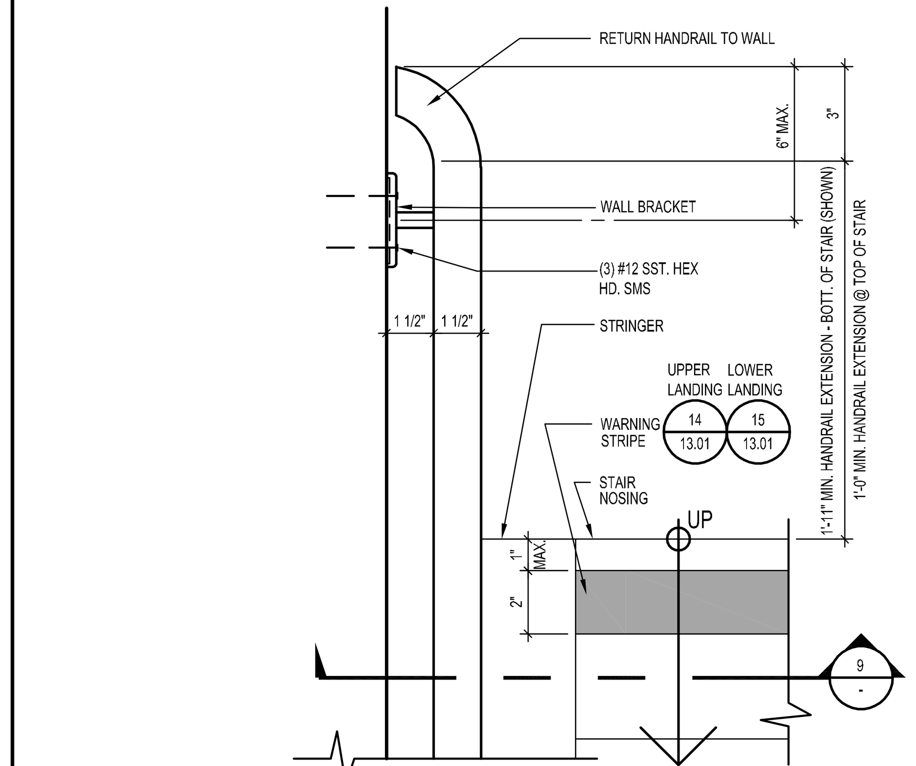
SECTION THROUGH WALL-MOUNTED HANDRAIL 9
SCALE: 1-1/2" - 1'-0"



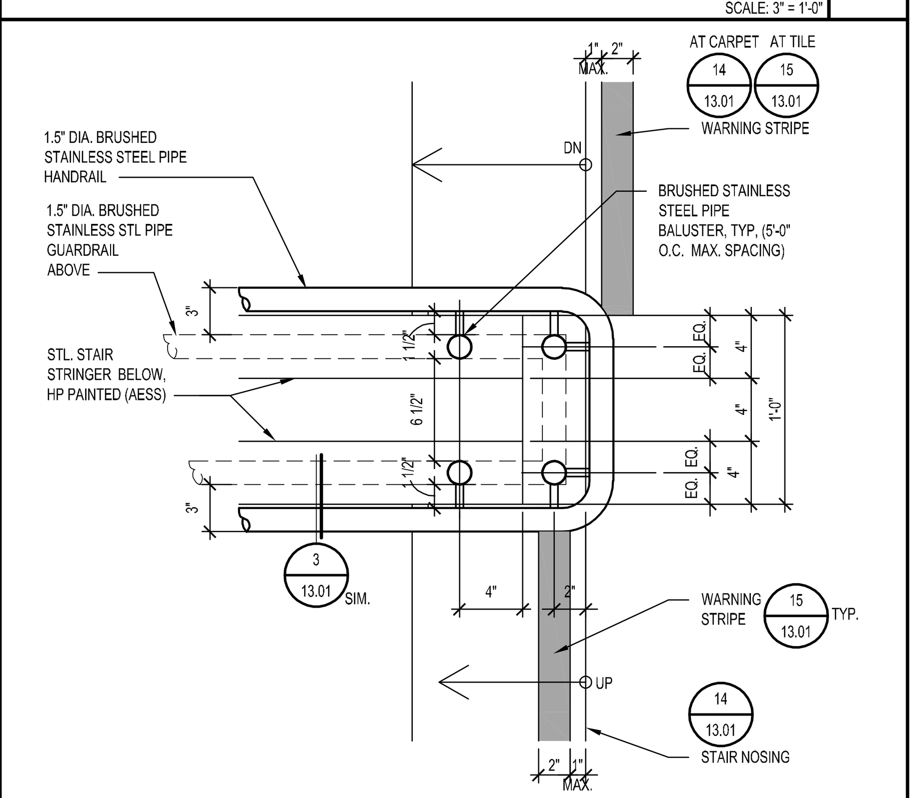
CANE DETECTION @ BRACE FRAME 10
SCALE: 3/4" = 1'-0"



HANDRAIL TERMINATION AT WALL 13
SCALE: 3" = 1'-0"



PLAN - WALL-MOUNTED HANDRAIL RETURN 14
SCALE: 3" = 1'-0"



PLAN - GUARDRAIL AND HANDRAIL AT LANDING 19
SCALE: 1-1/2" - 1'-0"

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date: 9.3.2019

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drawing title:
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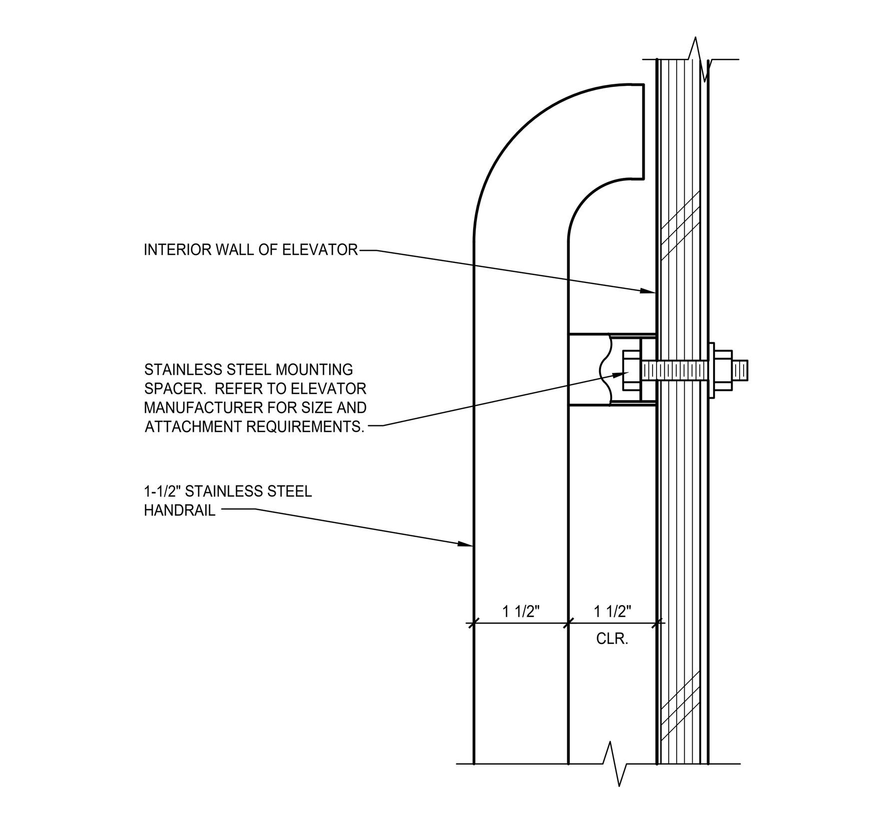
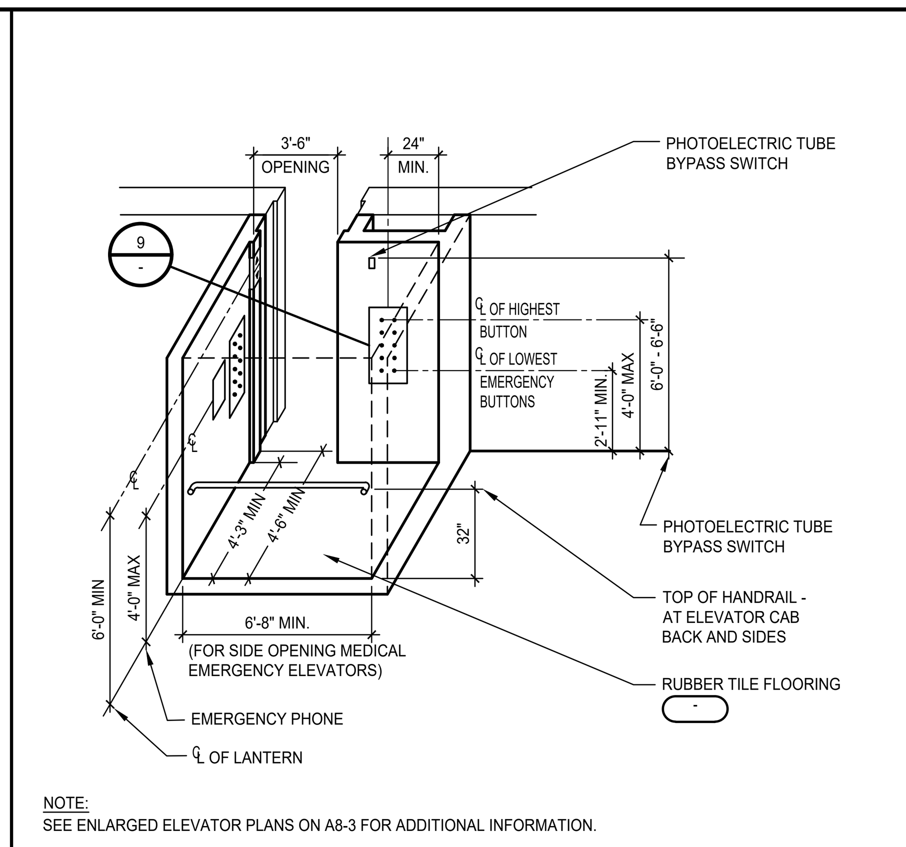
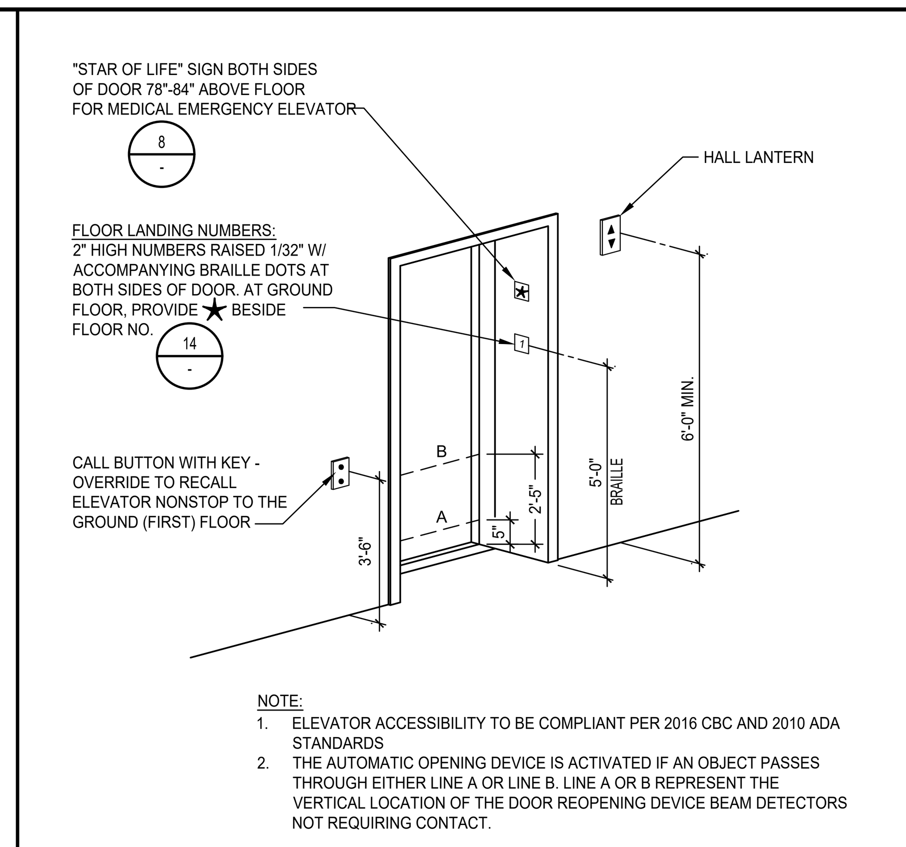
drawing no.:
13.02



ELEVATOR HANDRAIL DETAIL — SCALE: HALF — 1

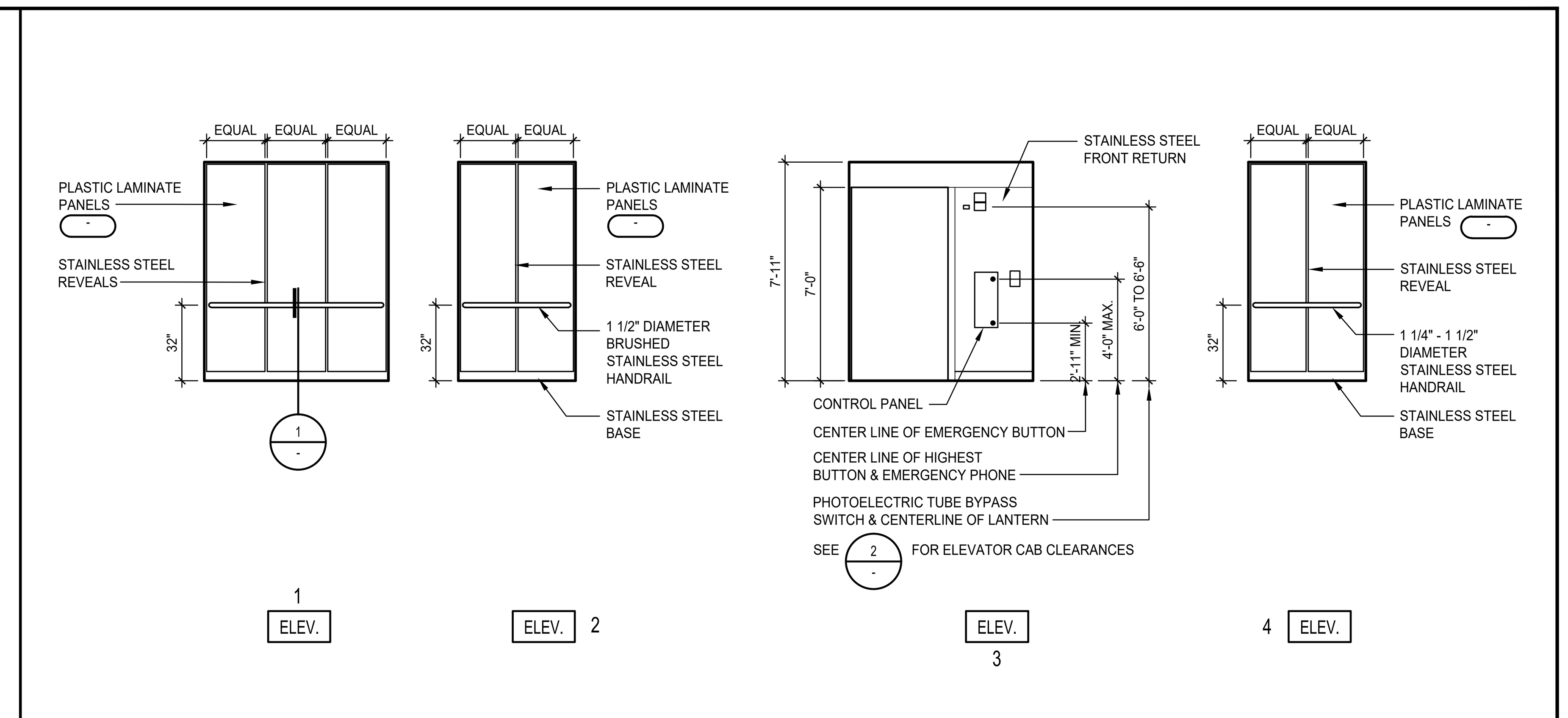


ELEVATOR CAB CLEARANCES — SCALE: 1/4" = 1'-0" — 2

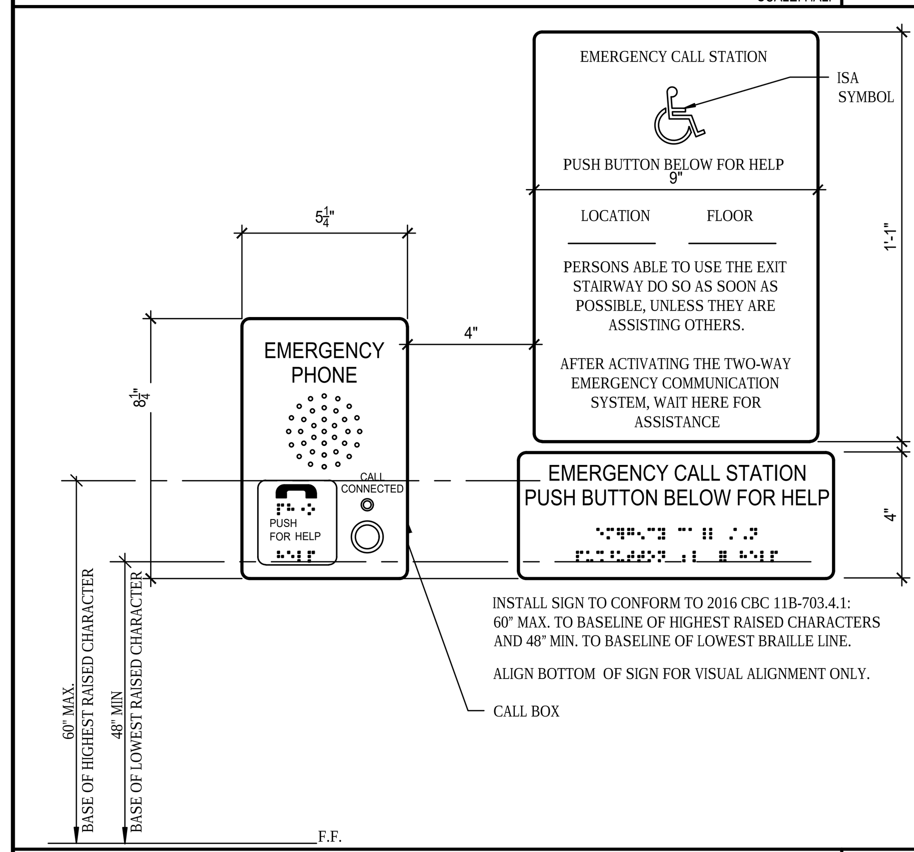


NOTE:
1. ELEVATOR ACCESSIBILITY TO BE COMPLIANT PER 2016 CBC AND 2010 ADA STANDARDS
2. THE AUTOMATIC OPENING DEVICE IS ACTIVATED IF AN OBJECT PASSES THROUGH EITHER LINE A OR LINE B. LINE A OR B REPRESENT THE VERTICAL LOCATION OF THE DOOR REOPENING DEVICE BEAM DETECTORS NOT REQUIRING CONTACT.

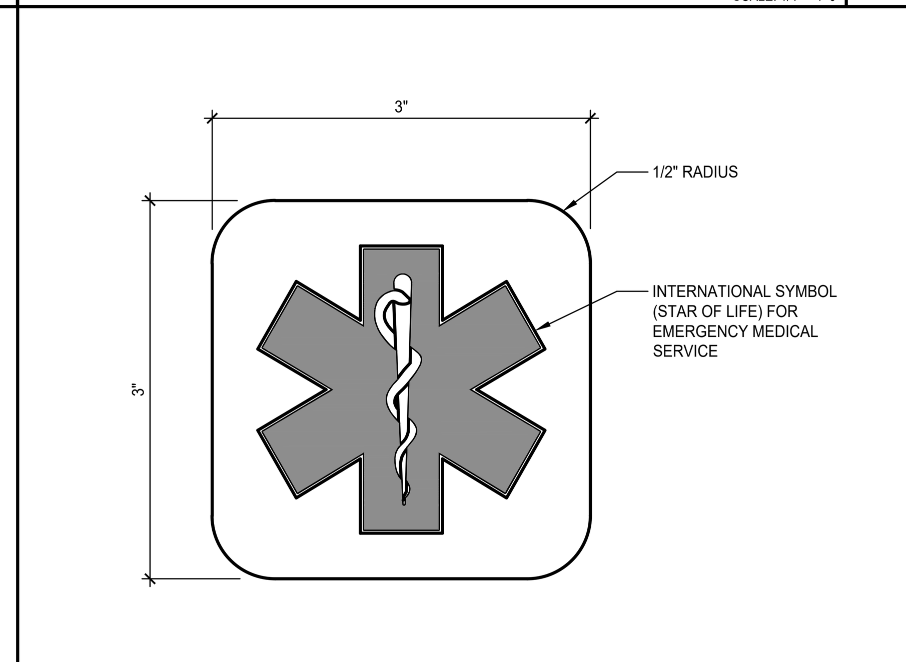
ELEVATOR ENTRANCE CONTROLS AND SIGNAGE — SCALE: 1/4" = 1'-0" — 3



ELEVATOR CAB ELEVATIONS — SCALE: 1/4" = 1'-0" — 5

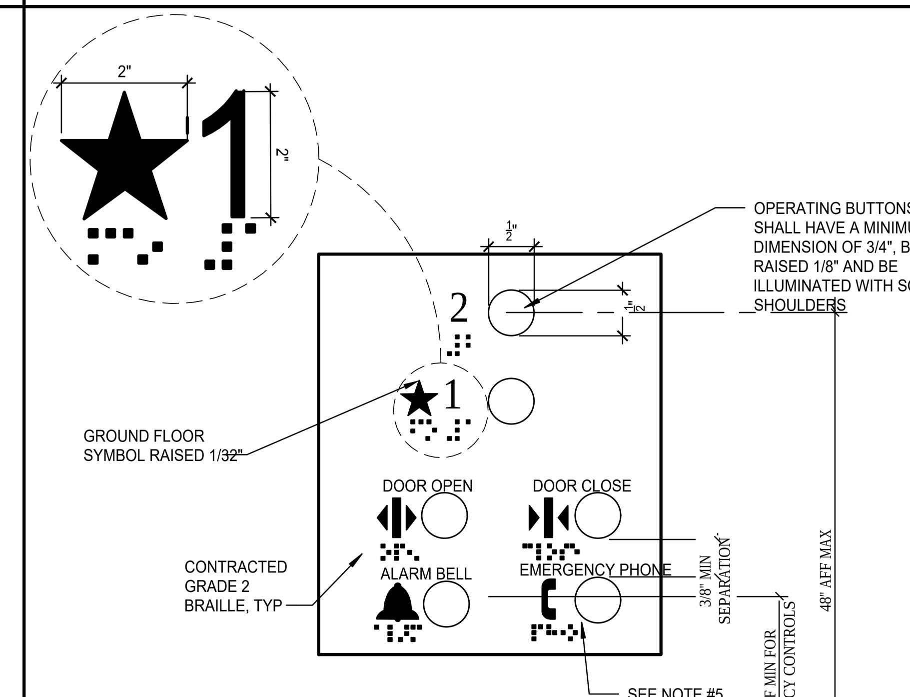


TWO WAY COMMUNICATION SIGN — SCALE: 3" = 1'-0" — 6



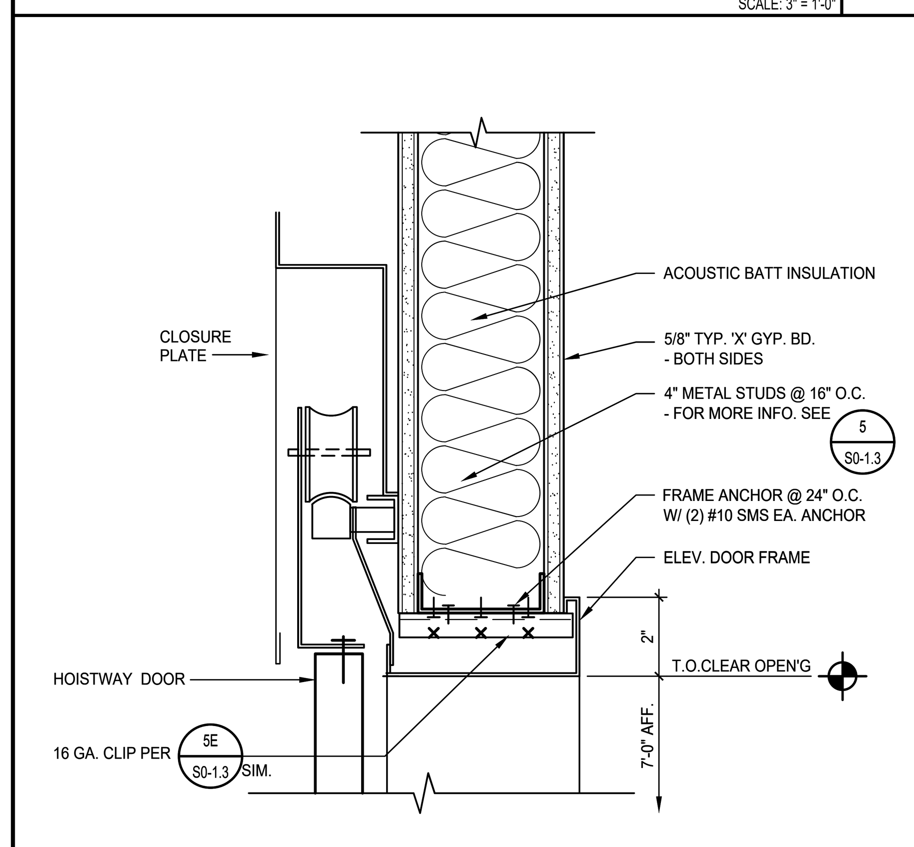
NOTE:
SYMBOL SHALL BE PERMANENTLY ATTACHED TO EACH SIDE OF HOISTWAY DOOR FRAME ON THE PORTION OF THE FRAME AT RIGHT ANGLES TO THE LANDING AREA. EACH SYMBOL SHALL BE NOT LESS THAN 78" AND NOT MORE THAN 84" ABOVE THE FINISH FLOOR.

EMERGENCY MEDICAL ELEVATOR "STAR OF LIFE" — SCALE: FULL — 8

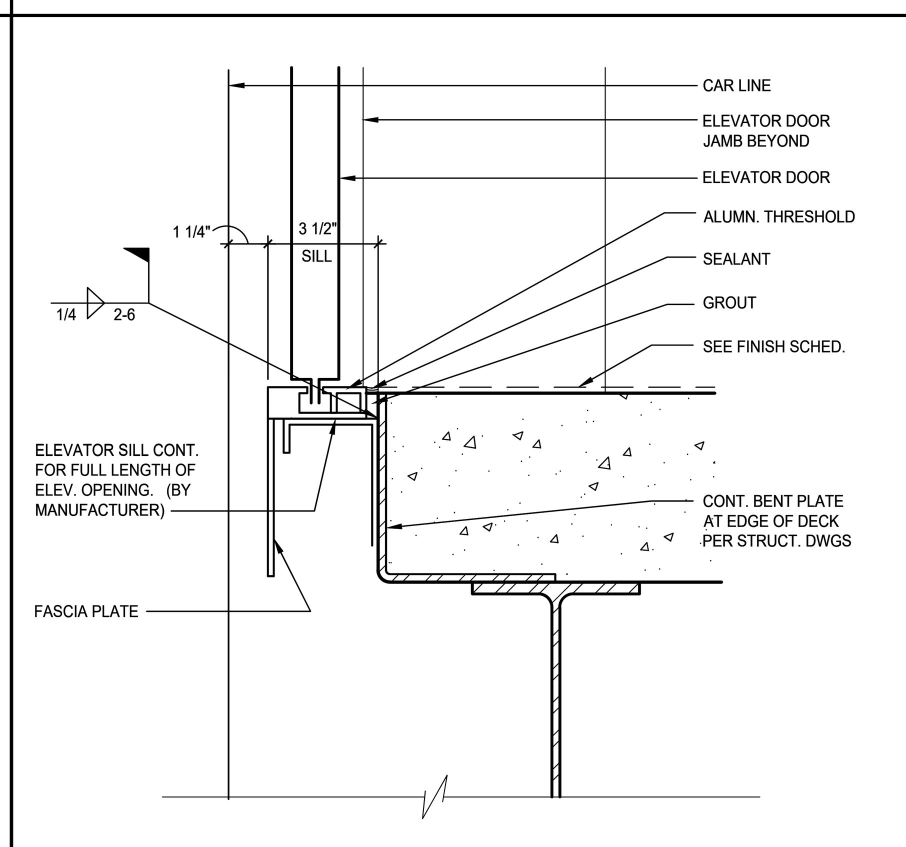


NOTES:
1. LOCATED GRADE 2 BRAILLE SYMBOLS BELOW RAISED CHARACTER OR SYMBOLS.
2. RAISED CHARACTERS AND SYMBOLS SHALL BE WHITE ON BLACK BACKGROUND.
3. PROVIDE USUAL CAR POSITION INDICATOR PER CBC 11B-407.4.5
4. PROVIDE ILLUMINATED PUSH BUTTON, TYP.
5. CHARACTERS AND "FISHTAIL" BRAILLE MARKING ARE COMPLIANT WITH THE AMERICANS DISABILITIES ACT AND CALIFORNIA BUILDING CODE 2016.

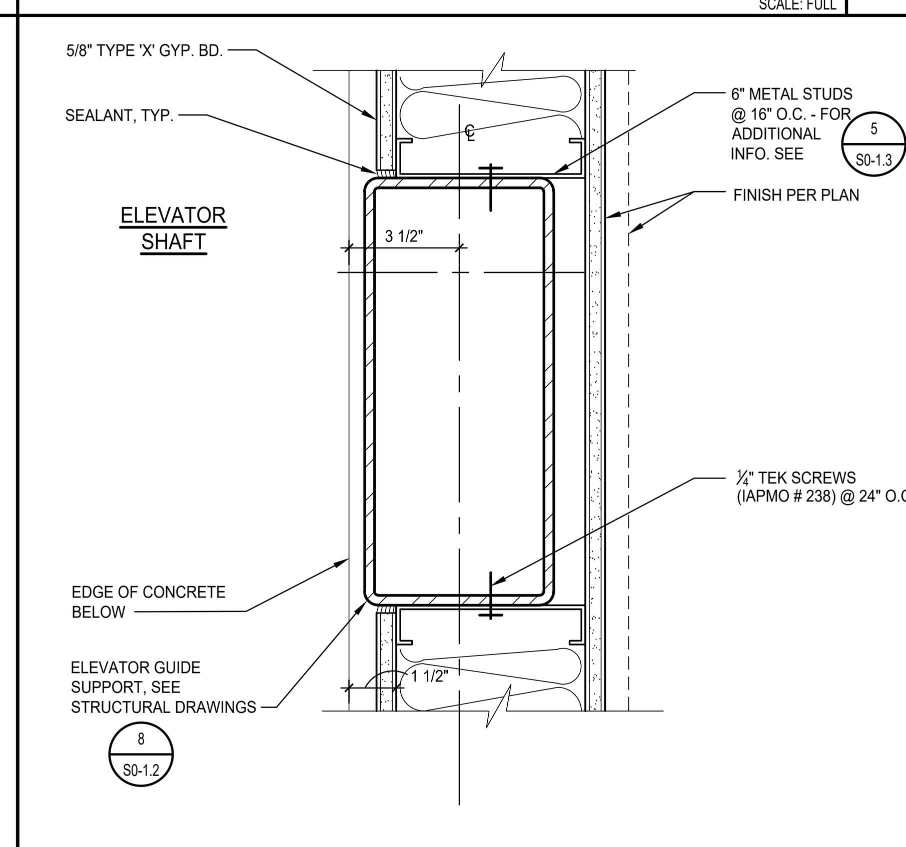
ACCESSIBLE ELEVATOR CONTROLS — SCALE: HALF — 9



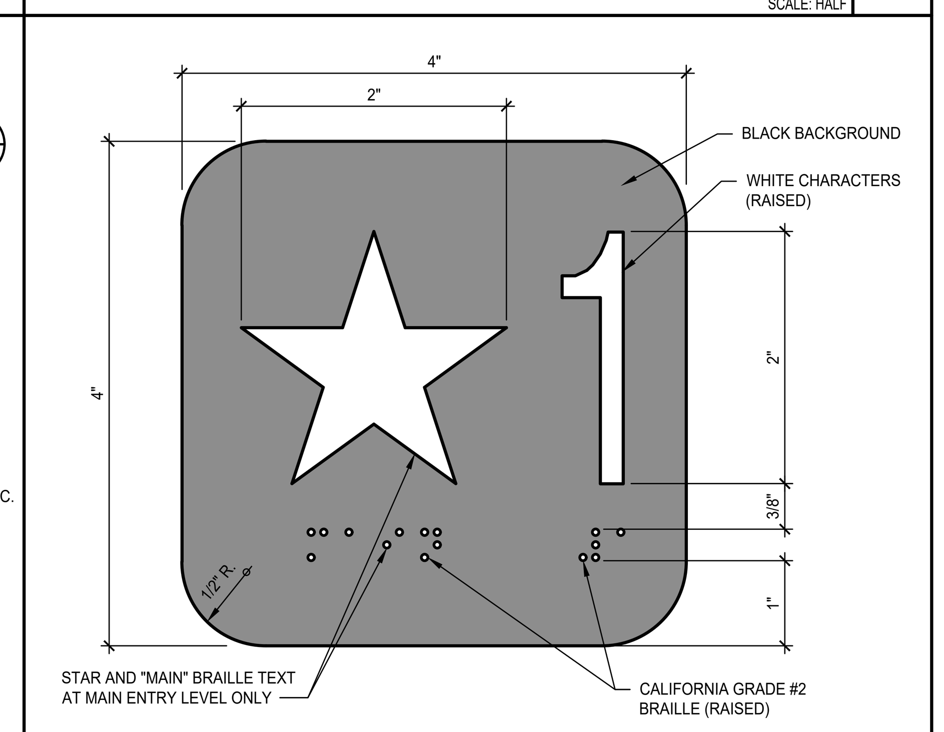
ELEVATOR DOOR HEAD — SCALE: 3" = 1'-0" — 11



ELEVATOR THRESHOLD AT 2nd. FLOOR — SCALE: 3" = 1'-0" — 12

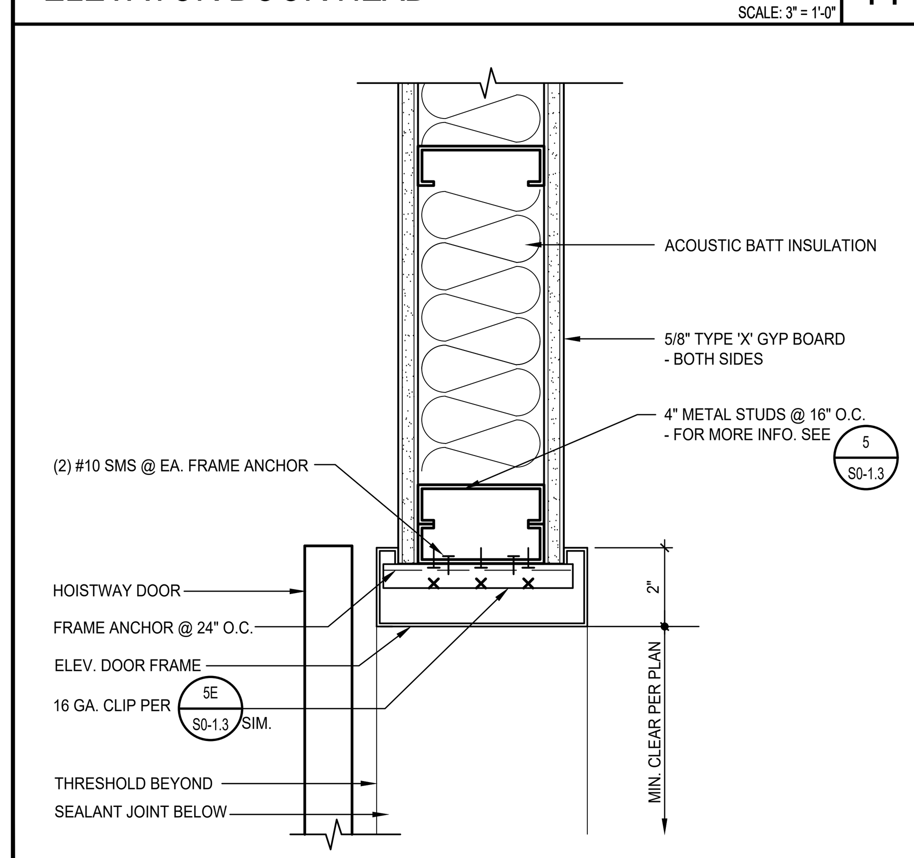


GUIDE RAIL SUPPORT — SCALE: 3" = 1'-0" — 13

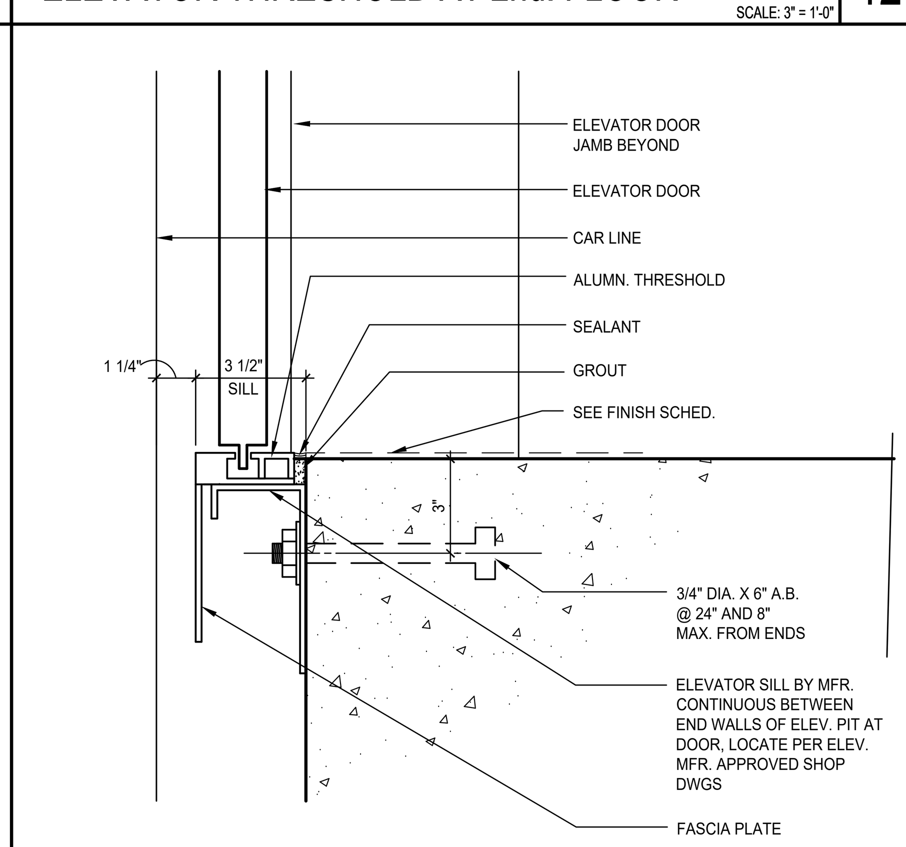


NOTES:
1. SIGN SHALL BE PERMANENTLY ATTACHED TO EACH SIDE OF HOISTWAY DOOR FRAME ON THE PORTION OF THE FRAME AT RIGHT ANGLES TO THE LANDING AREA.
2. SEE DETAIL 3/- FOR MOUNTING HEIGHT.

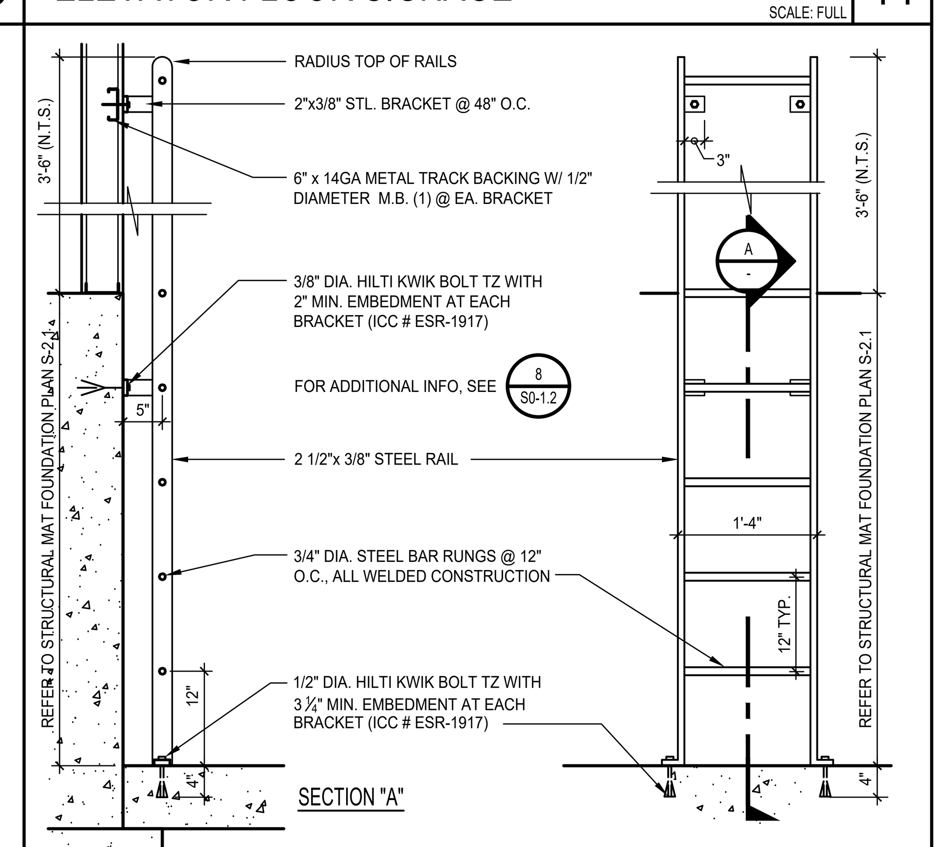
ELEVATOR FLOOR SIGNAGE — SCALE: FULL — 14



ELEVATOR DOOR JAMB — SCALE: 3" = 1'-0" — 16



ELEVATOR THRESHOLD AT 1st. FLOOR — SCALE: 3" = 1'-0" — 17



ELEVATOR PIT LADDER DETAIL — SCALE: 3/4" = 1'-0" — 19

PASSENGER ELEVATOR REQUIREMENTS

TYPICAL FOR ALL ELEVATORS

CHAPTER 11B - 2016 CALIFORNIA BUILDING CODE

1. GENERAL - SIZE OF CAB AND CONTROL LOCATIONS ARE REQUIRED TO ACCOMMODATE PERSONS WITH DISABILITIES. IN BUILDINGS TWO OR MORE STORIES IN HEIGHT, SERVED BY AN ELEVATOR, OR A BUILDING SERVED BY AN ELEVATOR REQUIRED BY CHAPTER 11, OR A BUILDING SERVED BY AN ELEVATOR REQUIRED FOR ACCESSIBILITY, ALL ELEVATORS PROVIDED SHALL ACCOMMODATE A WHEELCHAIR.
2. THE ELEVATOR SHALL BE PROVIDED WITH A SELF-LEVELING DEVICE THAT WILL BRING THE CAR TO THE FLOOR LANDINGS WITHIN A TOLERANCE OF PLUS OR MINUS 1/2 INCH (12.7MM) UNDER NORMAL LOADING AND UNLOADING CONDITIONS. THE CLEARANCE BETWEEN THE CAR PLATFORM SILL AND THE EDGE OF THE HOISTWAY LANDING SHALL BE NO GREATER THAN 1 1/4 INCHES (32MM). (11B-407.4.4)
3. MINIMUM CLEAR WIDTH FOR ELEVATOR DOORS SHALL BE 36 INCHES. (11B-407.4.1)
4. DOORS CLOSED BY AUTOMATIC MEANS SHALL BE PROVIDED WITH A DOOR-REOPENING DEVICE THAT WILL FUNCTION TO STOP AND REOPEN A CAR DOOR AND ADJACENT HOISTWAY DOOR IN CASE THE CAR DOOR IS OBSTRUCTED WHILE CLOSING. THIS DEVICE SHALL BE CAPABLE OF SENSING AN OBJECT OR PERSON IN THE PATH OF A CLOSING DOOR WITHOUT REQUIRING CONTACT FOR ACTIVATION AT A NOMINAL 5 INCHES AND 29 INCHES (127MM AND 737 MM) ABOVE THE FLOOR. (11B-407.3.3)
5. PROVIDE MINIMUM ACCEPTABLE TIME FROM NOTIFICATION THAT A CAR IS ANSWERING A CALL (LANTERN AND AUDIBLE SIGNAL) UNTIL THE DOORS OF THE CAR START TO CLOSE USING FORMULA GIVEN IN SECTION 11B-407.3.4.
6. THE MINIMUM ACCEPTABLE TIME FOR THE DOORS TO REMAIN OPEN SHALL BE NOT LESS THAN FIVE SECONDS (11B-407.3.5).
7. THE CAR INSIDE SHALL ALLOW FOR THE TURNING OF A WHEELCHAIR. THE MINIMUM CLEAR DISTANCE BETWEEN WALLS OR BETWEEN WALL AND DOOR, EXCLUDING RETURN PANELS, SHALL BE NOT LESS THAN 80 INCHES BY 54 INCHES (2032MM BY 1372MM) FOR CENTER OPENING DOORS AND 68 INCHES BY 54 INCHES FOR SIDE-SLIDE OPENING DOORS. SEE 2016 CBC FIGURE 11B-407.4.1. THE CENTERLINE OF ELEVATOR FLOOR BUTTONS SHALL BE NO HIGHER THAN 54 INCHES (1372MM) ABOVE THE FINISH FLOOR FOR SIDE APPROACH AND 48 INCHES (1219MM) FOR FRONT APPROACH. (11B-407.4.1) SEE DETAIL 2, THIS SHEET.
8. FLOOR BUTTONS SHALL BE PROVIDED WITH VISUAL INDICATORS TO SHOW WHEN EACH CALL IS REGISTERED. THE VISUAL INDICATORS SHALL BE EXTINGUISHED WHEN EACH CALL IS ANSWERED (11B-407.4.7.1.4). SEE DET. 3, THIS SHEET.
9. EMERGENCY TWO-WAY COMMUNICATION SYSTEMS SHALL COMPLY WITH SECTION 11B-308. RAISED SYMBOLS OR CHARACTERS, WHITE ON BLACK BACKGROUND, AND BRAILLE SHALL BE PROVIDED ADJACENT TO THE DEVICE AND SHALL COMPLY WITH SECTIONS 11B-703.2 AND 11B-703.3. (11B-407.4.9) SEE DET. 2, THIS SHEET.
10. PASSENGER ELEVATOR CAR CONTROLS SHALL HAVE A MINIMUM DIMENSION OF 3/4 INCH (19.1MM) AND SHALL BE RAISED 1/8 INCH (3.2MM) PLUS OR MINUS 1/32 INCH (0.8MM) ABOVE THE SURROUNDING SURFACE. (11B-407.4.6.2.1) SEE DET. 9, THIS SHEET.
11. CONTROL BUTTONS SHALL BE ILLUMINATED, SHALL HAVE SQUARE SHOULDERS, AND SHALL BE ACTIVATED BY A MECHANICAL MOTION THAT IS DETECTABLE. ALL CONTROL BUTTONS SHALL BE DESIGNATED BY A 5/8 INCH MINIMUM (15.9MM) ARABIC NUMERAL, STANDARD ALPHABET CHARACTER, OR STANDARD SYMBOL IMMEDIATELY TO THE LEFT OF THE CONTROL BUTTON. A BRAILLE SYMBOL SHALL BE LOCATED IMMEDIATELY BELOW THE NUMERAL, CHARACTER OR SYMBOL. A MIN. CLEAR SPACE OF 3/8" (9.5MM) OR OTHER SUITABLE MEANS OF SEPARATION SHALL BE PROVIDED BETWEEN ROWS OF CONTROL BUTTONS. THE RAISED CHARACTERS SHALL BE WHITE ON A BLACK BACKGROUND. (11B-407.4.6.2) SEE DETAIL 9, THIS SHEET.
12. CONTROLS AND EMERGENCY EQUIPMENT IDENTIFIED BY RAISED SYMBOLS SHALL INCLUDE, BUT NOT BE LIMITED TO, DOOR OPEN, DOOR CLOSE, ALARM BELL, EMERGENCY STOP AND TELEPHONE. THE CALL BUTTON FOR THE MAIN ENTRY FLOOR SHALL BE DESIGNATED BY A RAISED STAR AT THE LEFT OF THE FLOOR DESIGNATION. (11B-407.4.6.2) SEE DETAIL 9, THIS SHEET.
13. THE CENTERLINE OF THE HALL CALL BUTTON SHALL BE WITHIN 42 INCHES (1067MM) OF THE FLOOR. BUTTONS SHALL BE A MINIMUM OF 3/4 INCH (19.1MM) IN SIZE AND SHALL BE RAISED 1/8 INCH (3.2MM) PLUS OR MINUS 1/32 INCH (0.8MM) ABOVE SURROUNDING SURFACE. VISUAL INDICATION SHALL BE PROVIDED TO SHOW EACH CALL REGISTERED AND EXTINGUISHED WHEN ANSWERED. OBJECTS ADJACENT TO, AND BELOW, HALL CALL BUTTONS SHALL NOT PROJECT MORE THAN 4 INCHES (102MM) FROM THE WALL (11B-407.2.1).
14. THE MINIMUM ILLUMINATION AT THE CAR CONTROLS, THRESHOLD AND THE LANDING WHEN THE CAR AND LANDING DOORS ARE OPEN SHALL NOT BE LESS THAN 5 FOOT-CANDLES (54 LUX). (11B-407.4.5)
15. A VISUAL AND AUDIBLE SIGNAL SHALL BE PROVIDED AT EACH HOISTWAY ENTRANCE INDICATING TO THE PROSPECTIVE PASSENGER THE CAR ANSWERING THE CALL AND ITS DIRECTION OF TRAVEL AS FOLLOWS:
   A. THE VISUAL SIGNAL FOR EACH DIRECTION SHALL BE A MINIMUM OF 2 1/2 INCHES (64MM) HIGH BY 2 1/2 (64MM) WIDE AND BE VISIBLE FROM THE PROXIMITY OF THE HALL CALL BUTTON
   B. THE AUDIBLE SIGNAL SHALL SOUND ONCE FOR THE UP DIRECTION AND TWICE FOR THE DOWN DIRECTION OR OF A CONFIGURATION THAT DISTINGUISHES BETWEEN UP AND DOWN ELEVATOR TRAVEL
   C. THE CENTERLINE OF THE FIXTURE SHALL BE LOCATED A MINIMUM OF 6 FEET (1829MM) IN HEIGHT FROM THE FLOOR OF THE LOBBY.
   D. THE USE OF IN-CAR LANTERNS, LOCATED IN OR ON THE CAR DOOR JAMBS, VISIBLE FROM PROXIMITY OF THE HALL CALL BUTTONS AND CONFORMING TO THE ABOVE REQUIREMENTS SHALL OR WILL BE ACCEPTABLE.
   E. USE OF ARROW SHAPES IS PREFERRED FOR VISIBLE SIGNALS (11B-407.2.2). SEE DETAIL 3, THIS SHEET.
16. PASSENGER ELEVATOR LANDING JAMBS ON ALL ELEVATOR FLOORS SHALL HAVE THE NUMBER OF THE FLOOR ON WHICH THE JAMB IS LOCATED DESIGNATED BY RAISED ARABIC NUMERALS WHICH ARE A MINIMUM OF 2 INCHES (51 MM) HIGH AND CONFORM TO SECTION 11B-703.2 AND GRADE 2 BRAILLE THAT CONFORMS TO SECTION 11B-703.4.1 LOCATED AT 48" MIN. TO BASELINE OF BRAILLE ABOVE THE FLOOR ON THE JAMB PANELS ON BOTH SIDES OF THE DOOR SO THAT THEY ARE VISIBLE FROM WITHIN THE ELEVATOR. RAISED BRAILLE SYMBOLS SHALL BE PLACED BELOW THE CORRESPONDING ARABIC NUMERALS. THE RAISED CHARACTERS SHALL BE ON A CONTRASTING BACKGROUND, SEE FIGURE 11B-407.2.3.1. (11B-407.2.3.1) SEE DETAILS 3 AND 14, THIS SHEET.
17. PASSENGER ELEVATORS SHALL BE LOCATED NEAR A MAJOR PATH OF TRAVEL AND PROVISIONS SHALL BE MADE TO ENSURE THAT THEY REMAIN ACCESSIBLE AND USABLE AT ALL TIMES THE BUILDING IS OCCUPIED. (11B-108)
18. ELEVATOR HOISTWAYS SHALL EITHER BE CONSTRUCTED OF NONCOMBUSTIBLE MATERIALS OR THE SIDES OF THE HOISTWAY FACING THE ELEVATOR CAB SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25 AND A MAXIMUM SMOKE DEVELOPING RATING OF 50.

GENERAL NOTES - ELEVATOR — SCALE: FULL — 20

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-119686 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/14/2019

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ELEVATOR DETAILS

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14.01

GENERAL NOTES:

1. DETAILS OF CONSTRUCTION NOT SHOWN SHALL BE OF SAME NATURE AS THOSE SHOWN FOR SIMILAR CONDITIONS. REFER TO THE TYPICAL DETAIL SHEETS FOR TYPICAL DETAILS OF CONSTRUCTION. TYPICAL DETAILS APPLY TO ALL CONSTRUCTION UNLESS SPECIFICALLY NOTED OR SHOWN OTHERWISE. WHERE CONDITIONS REQUIRE MODIFICATIONS OF A TYPICAL DETAIL, THE CONTRACTOR SHALL SUBMIT MODIFIED DETAIL FOR APPROVAL BY THE ENGINEER OF RECORD PRIOR TO FABRICATION AND INSTALLATION. DETAILS OF CONSTRUCTION NOT SHOWN SHALL BE OF SAME NATURE AS THOSE SHOWN FOR SIMILAR CONSTRUCTION.
2. CONTRACTOR SHALL CONSIDER THE PROJECT SPECIFICATIONS A PART OF THE CONTRACT DOCUMENTS. WHERE INFORMATION IS CONFLICTING, SPECIFIC DETAILS SHALL GOVERN OVER TYPICAL DETAILS WHICH SHALL GOVERN OVER THESE NOTES WHICH SHALL GOVERN OVER SPECIFICATIONS.
3. REFER TO THE PROJECT SPECIFICATIONS FOR SHOP DRAWING REQUIREMENTS AND SUBMITTALS.
4. ALL DIMENSIONS ON STRUCTURAL DRAWINGS SHALL BE CHECKED AGAINST ARCHITECTURAL DIMENSIONS. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE OMITTED OR NOT CLEAR, CONTACT THE ARCHITECT (ARCH) OR STRUCTURAL ENGINEER OF RECORD (SEOR). ALL DIMENSIONS RELATED TO EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR. DIMENSIONS ARE TO THE FACE OF STUDS, AND TO CENTERLINE OF COLUMNS UNO.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMMEDIATELY NOTIFY THE SEOR OF ANY CONFLICTS BETWEEN THE STRUCTURAL DRAWINGS AND OTHER DRAWINGS; OR EXISTING CONDITIONS NOT SHOWN OR DIFFERENT FROM THOSE SHOWN ON DRAWINGS PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE BUILDING THAT IS IN CONFLICT UNTIL THE CONFLICT IS RESOLVED WITH THE AFFECTED PARTIES.
6. THE STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE SHOWN THEY DO NOT INDICATE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE CONSTRUCTION AND ALL ADJACENT PROPERTIES DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE BUT ARE NOT LIMITED TO BRACING, SHORING OF LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT OR SEOR SHALL NOT INCLUDE OBSERVATION OF THE ABOVE ITEMS.
7. SUBSTITUTION REQUESTS FOR MATERIALS SPECIFIED ON THE STRUCTURAL DRAWINGS MAY BE CONSIDERED WITH MATERIALS HAVING EQUIVALENT OR GREATER CAPACITY AND PERFORMANCE. CURRENT EVALUATION REPORTS AND PRODUCT INFORMATION SHALL BE PROVIDED TO THE STRUCTURAL ENGINEER DEMONSTRATING THE REQUIRED CAPACITY AND PERFORMANCE OF THE MATERIAL TO BE SUBSTITUTED. WRITTEN APPROVAL FROM THE SEOR SHALL BE OBTAINED PRIOR TO THE SUBSTITUTION OF ANY MATERIAL SPECIFIED ON THE STRUCTURAL DOCUMENTS.
8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PERTINENT SECTIONS OF THE "CONSTRUCTION SAFETY ORDERS" ISSUED BY THE STATE OF CALIFORNIA, LATEST EDITION, AND ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT. THE ARCHITECT, SEOR, AND THE OWNER DO NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.
9. ALL WORK IS NEW (N) UNLESS INDICATED AS EXISTING (E).
10. CONSTRUCTION MATERIALS SHALL BE DISTRIBUTED WHEN PLACED ON THE STRUCTURE SUCH THAT LOADS DO NOT EXCEED DESIGN LIVE LOADS OR RESULT IN AN UNBALANCED CONDITION.

STRUCTURAL DESIGN CRITERIA:

1. CODES:
   ALL WORK SHALL BE IN CONFORMANCE WITH THE CALIFORNIA BUILDING CODE (CBC) 2016 EDITION, INCLUDING ALL AMENDMENTS. ALL STANDARDS USED SHALL BE THE LATEST VERSION APPROVED BY THE CODE ENFORCEMENT AGENCY ON THE DATE OF THE PERMIT ISSUANCE UNLESS SPECIFICALLY NOTED OTHERWISE.
2. SEISMIC DESIGN INFORMATION:

I = 1.25	OCCUPANCY CAT. III	SITE CLASS D	DESIGN PROCEDURE: RSA
S_S = 1.674	S_1 = 0.611	S_{DS} = 1.116	S_{D1} = 0.611
SEISMIC DESIGN CATEGORY = D			
SLRS: ORDINARY CONCENTRIC BRACED FRAME			
Rho = 1.3	R =3.25	C_d =3.25	Ω = 2

3. WIND DESIGN INFORMATION:

OCCUPANCY CAT. III	K_d = 1.07	K_z = 0.85	K_{zt} = 1
BASIC WIND SPEED V_{ult} = 115 MPH (3 SEC GUST)		EXPOSURE C	
INTERNAL PRESSURE COEFF. = +/- 0.18			

EXISTING CONDITIONS NOTES:

1. FIELD VERIFY ALL CONDITIONS & DIMENSIONS PRIOR TO SHOP DRAWING PRODUCTION AND FABRICATION OF STRUCTURAL ELEMENTS.
2. WHERE ALL OTHER EXISTING CONDITIONS VARY SIGNIFICANTLY FROM THOSE SHOWN ON THESE DRAWINGS, THE STRUCTURAL ENGINEER SHALL BE NOTIFIED PRIOR TO CONTINUED CONSTRUCTION RELATED TO SUBJECT CONDITIONS.
3. SHORE ALL EXISTING CONSTRUCTION AS REQUIRED.
4. ALL EXISTING (E) CONNECTIONS AT ELEMENTS TO BE REPLACED SHALL BE REPLACED OR RE-ATTACHED TO MATCH EXISTING CONDITIONS.
5. VERIFY LOCATION OF EXISTING (E) REBAR BEFORE FABRICATION USING NON-DESTRUCTIVE TESTING.
6. SPECIAL INSPECTION IS REQUIRED FOR ALL WORK.
7. SEE "AS BUILT" DRAWINGS FOR EXISTING BUILDING DESIGN FOR ITEMS NOT SHOWN OR NOTED.
8. ALL EXISTING (E) WOOD ELEMENTS TO REMAIN SHALL BE FIELD INSPECTED DURING CONSTRUCTION AND TREATED FOR DRYROT REMOVAL / CONTROL. WHERE EXISTING GLB'S TO REMAIN ARE FOUND TO HAVE EXTENSIVE DRYROT DEEPER THAN THE TOP TWO LAMINATIONS (3"), THE STRUCTURAL ENGINEER SHALL BE NOTIFIED PRIOR TO CONTINUED CONSTRUCTION RELATED TO SUBJECT GLB'S.
9. CORE DRILLS REQUIRED SHALL NOT CUT ANY REINFORCING. THE CONTRACTOR IS TO COORDINATE WORK OF ALL TRADES TO ENSURE COMPLIANCE. ALL CORE DRILLS ARE TO BE PRESENTED TO THE IOR FOR VERIFICATION. THE IOR IS TO DOCUMENT CORES EXAMINED INDICATING AN ABSENCE OF REINFORCING.

EXISTING UNDERGROUND UTILITY NOTES:

1. THE ARCHITECT AND ENGINEERS ARE NOT RESPONSIBLE FOR THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES WHETHER OR NOT SHOWN ON THE DRAWINGS. THE LOCATION OF ANY EXISTING UNDERGROUND UTILITIES SHOWN ON THE DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER SHOULD ANY SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES WHICH MAY RESULT FROM HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ALL EXISTING UNDERGROUND UTILITIES.

REINFORCING STEEL NOTES:

1. REINFORCING GRADES FOR CONCRETE OR MASONRY:
   A. ALL BARS EXCEPT THOSE TO BE WELDED................ ASTM A615, GRADE 60
   B. TIES AND STIRRUPS .... ASTM A615, GRADE 60
   C. WELDED WIRE FABRIC .... ASTM A185
   D. ALL BARS TO BE WELDED .... ASTM A706, GRADE 60
2. MAINTAIN MINIMUM CONCRETE COVER FROM FACE OF CONCRETE TO EDGE OF ALL REINFORCEMENT AS FOLLOWS (UNO):

CONDITION	COVER
CONCRETE POURED AGAINST EARTH	3"
CONCRETE POURED IN FORMS AND EXPOSED TO WEATHER OR EARTH	
- #6 BARS AND LARGER	2"
- #5 BARS AND SMALLER	1 1/2"
STRUCTURAL SLABS ON GRADE	
- FROM BOTTOM OF SLAB	2"
- FROM TOP OF SLAB	1 1/2"
OTHER CONCRETE NOT EXPOSED TO WEATHER OR EARTH FOR #11 BARS AND SMALLER	3/4"

   PROVIDE THE LARGEST COVER REQUIRED FOR ALL APPLICABLE CONDITIONS. WHERE #3 STIRRUPS OR TIES ARE USED, ENSURE THAT THE COVER FOR LONGITUDINAL BARS IS ADEQUATE.
3. REINFORCEMENT SHALL BE PLACED IN ACCORDANCE WITH THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI) "MANUAL OF STANDARD PRACTICE". EACH REINFORCING BAR SHALL BE WIRED TO A CROSS BAR AT A MAXIMUM SPACING OF 24" OC. PROVIDE ALL ACCESSORIES NECESSARY TO SUPPORT REINFORCING IN POSITIONS SHOWN ON THE PLANS.
4. SPLICES IN CONTINUOUS REINFORCEMENT AS USED IN WALLS, WALL FOOTINGS, ETC., SHALL HAVE A CLASS "B" LAP (1'-6" MIN) AND THE SPLICES IN ADJACENT BARS SHALL BE NOT LESS THAN 5'-0" APART. VERTICAL WALL BARS SHALL BE SPLICED AT OR NEAR FLOOR LINES. BARS MAY BE WIRED TOGETHER AT SPLICES OR LAPS EXCEPT FOR TOP REINFORCING OF BEAMS AND SLABS OR WHERE SPECIFICALLY DETAILED TO BE SEPARATED. WELDED WIRE FABRIC SHALL BE LAPPED 12" MINIMUM.
5. ALL DOWELS, ANCHOR BOLTS AND OTHER HARDWARE TO BE SET IN CONCRETE SHALL BE TIED IN PLACE PRIOR TO PLACEMENT OF CONCRETE. NO WET SETTING, STABBING, RODDING OR OTHER MOVEMENT OF EMBEDDED ITEMS SHALL BE PERFORMED DURING PLACEMENT OF CONCRETE.
6. BEND REINFORCING BARS COLD. FIELD BENDING OF PARTIALLY EMBEDED REINFOECEMENT IS NOT PERMITTED.
7. STEEL SHALL BE KEPT CLEAN AND FREE OF RUST.
8. DOWELS BETWEEN FOOTING AND WALLS OR COLUMNS SHALL BE THE SAME GRADE, SIZE AND SPACING AS THE MAIN REINFORCING UNO.
9. ALL BARS SHALL BE MARKED SO THEIR IDENTIFICATION CAN BE MADE WHEN THE FINAL IN PLACE INSPECTION IS MADE.
10. CHAIRS OR SPACERS FOR REINFORCING SHALL BE NON-FERROUS OR PLASTIC COATED WHEN RESTING ON EXPOSED SURFACES.

STRUCTURAL CONCRETE NOTES:

1. CONCRETE SHALL BE MIXED, PLACED AND CURED IN ACCORDANCE WITH ACI 318, 2014 EDITION, AND PROJECT SPECIFICATIONS.
2. CONCRETE SHALL NOT BE DROPPED THROUGH REINFORCING STEEL (AS IN WALLS) SO AS TO CAUSE SEGREGATION OF AGGREGATES. IN SUCH CASES, HOPPERS AND VERTICAL CHUTES OR TRUNKS SHALL BE USED. CHUTES OR TRUNKS SHALL BE OF VARIABLE LENGTHS SO THAT FREE UNCONFINED FALL OF CONCRETE SHALL NOT EXCEED SIX FEET. A SUFFICIENT NUMBER OF CHUTES OR TRUNKS SHALL BE PROVIDED TO ENSURE THE CONCRETE IS KEPT LEVEL AT ALL TIMES.
3. CONSTRUCTION JOINTS SHALL BE CLEANED AND ROUGHENED BY REMOVING THE ENTIRE SURFACE TO EXPOSE CLEAN AGGREGATE SOLIDLY EMBEDDED IN THE MORTAR MATRIX. SLUSH WITH A COAT OF NEAT CEMENT BEFORE PLACING CONCRETE. SEE PLANS AND DETAILS FOR LOCATION AND TYPE OF CONSTRUCTION JOINT. LOCATIONS OF ADDITIONAL CONSTRUCTION JOINTS NOT SHOWN ON THESE PLANS SHALL BE SUBMITTED FOR APPROVAL BY THE EOR PRIOR TO PLACING ANY CONCRETE.
4. STRUCTURAL CONCRETE SHALL MEET THE FOLLOWING DESIGN CRITERIA:

LOCATION	MIN 28-DAY COMP STRENGTH	CONC TYPE [a]	MAX AGGR. SIZE	MAX W/C RATIO	MAX SLUMP [b]
FOUNDATIONS STEMWALL, PILASTER	4000 PSI	NWC	1 1/2"	0.45	4"
SLAB ON GRADE	4000 PSI	NWC	1"	0.45	4"
FILL OVER METAL DECK	3000 PSI	LWC [a]	3/4"	0.45	6"
ALL OTHER STRUCTURAL CONCRETE NOT NOTED ABOVE	4000 PSI	NWC	1"	0.50	6"

   a. MAXIMUM DRY WEIGHT OF LIGHTWEIGHT CONCRETE SHALL BE 113 PCF, UNLESS APPROVED BY SEOR.
   b. SLUMP MEASURED PRIOR TO SUPERPLASTICIZER, WHERE OCCURS.
   c. USE TYPE II / TYPE V CEMENT.
5. CONCRETE MIX DESIGN AND TESTING SHALL MEET THE REQUIREMENTS OF THE BUILDING CODE, AND SPECIFICATIONS. ALL CONCRETE MIXES SHALL BE DESIGNED BY A RECOGNIZED TESTING LAB STAMPED AND SEALED BY A LICENSED CALIFORNIA CIVIL ENGINEER AND SUBMITTED TO THE SEOR FOR REVIEW PRIOR TO CONCRETE PLACEMENT. STRUCTURAL CONCRETE MIXES SHALL CONSIST OF 5 SACK MINIMUM UNO.
6. AGGREGATES IN NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C-33 (HARDROCK). AGGREGATES IN LIGHT WEIGHT CONCRETE SHALL CONFORM TO ASTM C-330.
7. COMPRESSIVE STRENGTH TEST REPORTS SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT AND THE SEOR.
8. PORTLAND CEMENT SHALL BE TYPE II FOR ALL CONCRETE CONFORMING TO ASTM C150, LOW ALKALI. MILL TESTS WITH CERTIFICATES OF COMPLIANCE SHALL BE SUBMITTED.
9. FLY ASH OR OTHER POZZOLANS CONFORMING TO ASTM C618 CLASS N OR F MAY BE USED AS A PARTIAL SUBSTITUTION FOR PORTLAND CEMENT UP TO A MAXIMUM OF 15% TOTAL CEMENTITIOUS MATERIALS BY WEIGHT IF THE MIX DESIGN IS PROPORTIONED PER ACI 318, SECTION 5.3.
10. CONCRETE MIXING OPERATIONS, ETC. SHALL CONFORM TO ASTM C94.
11. LEAN CONCRETE, WHERE SPECIFICALLY INDICATED, SHALL CONTAIN 2 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE.
12. DRYPACK OR NONSHRINK GROUT SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2 TIMES THE SUPPORTING CONCRETE STRENGTH, AND SHALL BE OF MASTERFLOW 713, FIVE STAR GROUT, SIKA GROUT 212, EMBECO 636, OR APPROVED EQUAL. FOR THICK GROUT LAYERS FOLLOW MANUFACTURER'S GUIDELINES TO ATTAIN THE REQUIRED STRENGTH, WHICH MAY INCLUDE THE ADDITION OF PEA GRAVEL.
13. DO NOT USE ANY CONCRETE OR GROUT CONTAINING CHLORIDES. WATER USED IN MIX SHALL BE CLEAN AND POTABLE.
14. PRIOR TO ERECTING ANY ELEMENTS THAT LOAD THE FOUNDATION, CONCRETE MUST REACH AN UNCONFINED COMPRESSION STRENGTH OF 2000 PSI MINIMUM AS DETERMINED BY TESTING OR PREVIOUSLY DOCUMENTED DATA FOR THE MIX DESIGN USED UNDER SIMILAR CONDITIONS, AND MUST BE ALLOWED TO CURE FOR A MINIMUM OF 3 DAYS.
15. FOR INTERIOR SLABS-ON-GRADE AND ALL OTHER SLABS RECEIVING ADHERED FLOORING FINISHES (I.E., GLUED, ETC.), THE MAXIMUM W/C RATIO SHALL NOT EXCEED 0.45. CURING COMPOUNDS USED ON CONCRETE THAT IS TO RECIEVE FINISHES SHALL BE COMPATIBLE WITH TILE AND ADHESIVES OR GROUTS IN ACCORDANCE WITH MANUFACTURER'S DATA AND BE APPROVED BEFORE USE.
16. MAINTAIN CONCRETE ABOVE 50 DEGREES FAHRENHEIT AND IN A MOIST CONDITION FOR A MINIMUM OF 7 DAYS AFTER PLACEMENT UNLESS OTHERWISE ACCEPTED BY SEOR.
17. SEE ARCHITECTURAL DRAWINGS FOR WALL OPENINGS, WALL OFFSETS, CHAMFERS, KERFS, DRIPS AND FOR EXTENT OF DEPRESSIONS, RAMPS, ETC. PROVIDE SLEEVES FOR ALL PIPES THROUGH CONCRETE WALLS AND FOOTINGS WHERE SHOWN ON THESE DRAWINGS. CORING IS NOT PERMITTED WITHOUT PRIOR APPROVAL BY THE SEOR.
18. EXPOSED CORNERS OF SLABS, BEAMS, WALLS, COLUMNS, ETC. SHALL BE FORMED WITH 3/4" CHAMFER, UNO.

FOUNDATION AND SLAB ON GRADE NOTES:

1. SEE SOIL REPORT BY: UNITED-HEIDER INSPECTION GROUP
   REPORT NO.: 10-18469PW DATED: NOVEMBER 13, 2018
   SUPPLEMENTAL RECOMMENDATIONS DATED SEPTEMBER 5, 2019
   SOILS REPORT SHALL BE CONSIDER A PART OF THESE CONSTRUCTION DOCUMENTS
2. ALLOWABLE MAT FTG VERTICAL BEARING PRESSURE
   DEAD LOAD + LIVE LOAD = ... 1200 PSF
   DEAD LOAD + LIVE LOAD + LATERAL LOAD = ... 1596 PSF

   ALLOWABLE MAT FTG LATERAL BEARING PRESSURE IS 200 PSF PER FT OF DEPTH. (2000 PSF MAX)

   ALLOWABLE MAT FTG COEFFICIENT OF FRICTION FOR SLIDING: 0.3
3. THE CONTRACTOR SHALL CONFORM TO ALL RECOMMENDATIONS AND CONDITIONS INDICATED IN THE SOIL REPORT. THE GEOTECHNICAL ENGINEER SHALL OBSERVE ALL FOOTING EXCAVATIONS PRIOR TO PLACING CONCRETE.
4. SUBSURFACE SOIL PREPARATION:
   A. ALL EXISTING UNDOCUMENTED FILL SHALL BE REMOVED AND RECOMPACTED. ALL TOPSOILS SHALL BE REMOVED AS REQUIRED BY THE GEOTECHNICAL ENGINEER.
   B. GEOTECHNICAL ENGINEER SHALL BE RETAINED DURING THE OVEREXCAVATION PROCESS. THE ACTUAL DEPTH OF REMOVAL WILL BE DETERMINED DURING GRADING OPERATIONS.
   C. OFFSITE FILL MATERIAL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT.
5. SPREAD FOOTINGS ARE CENTERED UNDER WALLS AND COLUMNS, UNO.
6. FOOTING ELEVATIONS ARE NOTED ON THE PLANS AND DETAILS AND SHALL BE USED FOR BIDDING. IN ANY CASE, FOOTINGS SHALL BEAR ON FIRM UNDISTURBED SOIL OR ENGINEERED FILL, IN ACCORDANCE WITH THE SOIL REPORT AND DETAILS SHOWN.
7. CONTRACTOR SHALL PROTECT ALL UTILITY LINES, ETC. ENCOUNTERED DURING EXCAVATION AND BACKFILLING.
8. FOOTING BACKFILL AND UTILITY TRENCH BACKFILL WITHIN BUILDING AREA SHALL BE MECHANICALLY COMPACTED IN LAYERS WITH THE APPROVAL OF THE GEOTECHNICAL ENGINEER. FLOODING IS NOT PERMITTED.
9. ALL TRENCHES SHALL COMPLY WITH APPLICABLE OSHA REQUIREMENTS.
10. ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED BUT NOT BEHIND RETAINING WALLS BEFORE CONCRETE OR MASONRY ATTAINS ITS FULL DESIGN STRENGTH.
11. THE DESIGN OF ALL RETAINING WALLS AND SUBTERRANEAN BUILDING WALLS INDICATED ON THESE DRAWINGS IS BASED ON DRAINED SOILS.
12. CONSTRUCTION JOINTS (CJ) AND SAWCUT (SC) JOINTS IN SLABS SHALL OCCUR WHERE LOCATED ON PLANS AND DETAILS. CJ'S SHALL HAVE FORMED POUR STOPS. CONSTRUCTION JOINTS IN WALLS AND FOOTINGS NEED NOT OCCUR AT THE SAME LOCATION, UNO.
13. SEE ARCHITECT'S PLANS FOR LOCATIONS OF SLAB SLOPES, DEPRESSIONS, CURBS, DRAINS, NON-STRUCTURAL PARTITIONS AND OTHER EMBEDDED ITEMS NOT SHOWN ON THE STRUCTURAL PLANS.
14. ALL GRADING, FOUNDATION FOOTINGS, AND DRAINAGE PLANS SHALL BE REVIEWED BY THE GEOTECHNICAL ENGINEER UPON SUBMITTAL. A CERTIFIED LETTER BY THE GEOTECHNICAL ENGINEER IS REQUESTED STATING THAT THE RECOMMENDATIONS CONTAINED WITHIN THE SOILS REPORT HAVE BEEN INCORPORATED INTO THE PROJECT PLANS AND SPECIFICATIONS PRIOR TO CONSTRUCTION.
15. PRIOR TO THE CONTRACTOR REQUESTING A BUILDING DEPARTMENT FOUNDATION INSPECTION, THE SOILS ENGINEER SHALL ADVISE THE BUILDING OFFICIAL IN WRITING THAT:
   A. THE BUILDING PAD WAS PREPARED IN ACCORDANCE WITH THE SOILS REPORT.
   B. THE UTILITY TRENCHES HAVE BEEN PROPERLY BACKFILLED AND COMPACTED.
   C. THE FOUNDATION EXCAVATIONS COMPLY WITH THE INTENT OF THE SOILS REPORT.

HIGH-STRENGTH BOLT NOTES:

1. SEE STRUCTURAL STEEL NOTES THIS SHEET FOR ADDITIONAL INFORMATION.
2. JOINT ASSEMBLIES USING HIGH-STRENGTH BOLTS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE "AISC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS". SLIP-CRITICAL BOLTS SHALL BE USED FOR ALL "SEISMIC LOAD RESISTING SYSTEM" (SLRS) MEMBER STEEL TO STEEL CONNECTIONS.
3. ALL HIGH-STRENGTH BOLTS SHALL CONFORM TO ASTM A-325 OR ASTM A-490, NUTS SHALL CONFORM TO ASTM A-563 AND WASHERS SHALL CONFORM TO ASTM F-436.
4. PAINT SHALL NOT BE PERMITTED ON CONTACT SURFACES UNLESS NOTED OTHERWISE. CONTACT SURFACES OF BOLTED PARTS SHALL BE DESCALED AND FREE OF DIRT, OIL, BURRS, PITS, AND OTHER DEFECTS WHICH PREVENT SOLID SEATING OF PARTS. FAYING SURFACE SHALL BE CLASS B.
5. SLIP-CRITICAL JOINT ASSEMBLIES SHALL BE FULLY PRE-TENSIONED BY TURN-OF-NUT TIGHTENING, CALIBRATED WRENCH TIGHTENING, INSTALLATION OF ALTERNATE DESIGN BOLTS OR BY DIRECT TENSION INDICATOR TIGHTENING.
6. TIGHTEN SLIP CRITICAL BOLTS USING ONE OF THE FOLLOWING: TWIST-OFF BOLTS, TENSION CONTROL CALIBRATED WRENCH OR DIRECT TENSION INDICATORS. HIGH STRENGTH BOLTS NOT IN THE SLRS MAY BE INSTALLED SNUG TIGHT.

STRUCTURAL STEEL NOTES:

1. DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE SPECIFICATIONS AND STANDARD OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), AS CONTAINED IN THE 14TH EDITION OF "AISC MANUAL OF STEEL CONSTRUCTION".
2. ALL STRUCTURAL STEEL SHALL BE ERECTED PLUMB AND TRUE TO LINE. TEMPORARY BRACING SHALL BE INSTALLED AND SHALL BE LEFT IN PLACE UNTIL OTHER MEANS IS PROVIDED TO ADEQUATELY BRACE THE STRUCTURE.
3. PROVIDE THE FOLLOWING MATERIALS FOR STRUCTURAL STEEL UNO:

STRUCTURAL STEEL GRADES:		
A.	ALL WIDE FLANGE SECTIONS	ASTM A992
B.	SQUARE OR RECTANGULAR HOLLOW STRUCTURAL SECTIONS (HSS)	ASTM A500, GRADE B (F_y=46 KSI)
C.	ROUND HOLLOW STRUCTURAL SECTIONS (HSS)	ASTM A500, GRADE B (F_y=42 KSI)
D.	PIPES	ASTM A53 TYPE E OR S, GRADE B, (F_y=35 KSI)
E.	PLATES, ANGLES, CHANNELS & TEES	ASTM A36
F.	MOMENT FRAME BASE PLATES, CONTINUITY PLATE	ASTM 572, GRADE 50
G.	MACHINE BOLTS (MB)	ASTM A307
H.	HIGH STRENGTH BOLTS (HSB)	ASTM A325 TYPE N, A490
I.	WELDED HEADED STUDS	ASTM A108
J.	THREADED RODS FOR ANCHOR BOLTS	ASTM F1554, GRADE 36
K.	THREADED ROAD FOR ANCHOR BOLTS AT SLRS	ASTM F1554, GRADE 105

4. 1/8" THICK PLATES AND THICKER SHALL BE GAS CUT OR SAW CUT EXCEPT AS OTHERWISE NOTED, ALL BOLTS SHALL BE HIGH STRENGTH BOLTS. EXCEPT OTHERWISE NOTED, ALL BOLT HOLES SHALL BE STANDARD HOLES.
5. ALL CONNECTIONS NOT SHOWN SHALL CONFORM TO THE "AISC MANUAL OF STEEL CONSTRUCTION" AND SHALL BE SUBMITTED ON SHOP DRAWINGS FOR REVIEW BY SEOR PRIOR TO FABRICATION.
6. ALL WELDED HEADED STUDS, THREADED STUDS, AND DEFORMED BARS SHALL BE NELSON, OR EQUIVALENT, AND WELDED (IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS BY CERTIFIED WELDERS) SO AS TO FULLY DEVELOP THE TENSILE CAPACITY OF THE CONNECTOR.
7. BOLTS WITH UPSET THREADS ARE NOT ALLOWED. USE THE APPROPRIATE NUT AND WASHER TYPE FOR THE SPECIFIED BOLT.
8. ALL STEEL FABRICATION SHALL BE PERFORMED BY A LICENSED FABRICATOR.
9. ALL STRUCTURAL STEEL AND MISCELLANEOUS STEEL PERMANENTLY EXPOSED TO THE ELEMENTS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION UNLESS A WEATHER PROOF COATING IS SPECIFIED BY THE ARCHITECT UNO. STAINLESS AND WEATHERING STEELS ARE EXCEPTED WHERE SPECIFIED.
10. SEE ARCHITECTURAL DRAWINGS FOR NAILER HOLES, WELDED STUDS OR OTHER ITEMS NOT SHOWN IN THESE DRAWINGS. WHERE STEEL IS EMBEDDED IN CONCRETE OR MASONRY, PROVIDE HOLES AS REQUIRED FOR PASSAGE OF CONTINUOUS REINFORCING BARS WHERE INDICATED ON DRAWINGS. DO NOT CUT HOLES IN STRUCTURAL STEEL WITHOUT PRIOR APPROVAL OF SEOR.
11. ALL ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) SHALL COMPLY WITH AISC CODE OF STANDARD PRACTICE, SECTION 10.
12. PLACE NON-SHRINK OR DRYPACK GROUT UNDER ALL BASE PLATES AND ALLOW TO CURE BEFORE APPLYING LOADS.
13. ALL OPEN HSS ENDS SHALL BE CAPPED. MIN. 1/4" STL CAP.

WELDING NOTES:

1. WELDING PROCEDURES, ELECTRODES AND WELDER QUALIFICATIONS SHALL CONFORM TO THE "CODE FOR WELDING IN BUILDING CONSTRUCTION", AMERICAN WELDING SOCIETY (AWS), D1.1, D1.8 AND THE AISC "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
2. ALL WELDERS SHALL HAVE EVIDENCE OF PASSING THE AWS STANDARD QUALIFICATION TESTS, AND SHALL BE CERTIFIED FOR THE WORK THEY ARE PERFORMING.
3. PROJECT WELDING SHALL BE PERFORMED ONLY IN ACCORDANCE WITH WELDING PROCEDURE SPECIFICATIONS (WPS) SUBMITTED BY THE CONTRACTOR AND REVIEWED BY THE SEOR AND PROJECT WELDING INSPECTOR. THE WPS SHALL BE IN ACCORDANCE WITH AWS D1.1-D1.4 & D1.8 CURRENT EDITION.
4. WHERE WELDS ARE DESIGNATED AS DEMAND CRITICAL, THEY SHALL BE MADE WITH A FILLER METAL CAPABLE OF PROVIDING A MINIMUM CHARPY V-NOTCH (CVN) TOUGHNESS OF 20 FT-LB AT -20°F AND 40 FT-LB AT 70°F. SEE AISC 341-10 SECTION A3.4B FOR ADDITIONAL REQUIREMENTS.
5. ALL WELDS WITHIN MEMBERS DESIGNATED AS PART OF THE SEISMIC LOAD RESISTING SYSTEM (SLRS) SHALL CONFORM TO THE DETAILING, MATERIALS, WORKMANSHIP, TESTING, AND INSPECTION REQUIREMENTS PER AWS D1.8 AND MUST HAVE A MIN. CVN TOUGHNESS OF 20 FT-LB @ 0°F PER AISC 341 A3.45B.
6. WELDING OF STRUCTURAL STEEL SHALL BE PERFORMED PER AWS D1.1 & D1.8 USING E70XX ELECTRODES UNLESS OTHERWISED NOTED.
7. WELDING OF REINFORCING BARS SHALL BE PERFORMED PER AWS D1.4 USING E90XX ELECTRODES.
8. WELDING OF METAL DECK AND LIGHT GAGE STEEL SHALL BE IN ACCORDANCE WITH AWS D1.3.
9. ALL FULL PENETRATION WELDS SHALL BE ULTRA-SONIC TESTED PER AWS D1.1 & AISC 341 J6.2.
10. ALL GROOVE OR BUTT WELDS SHALL BE COMPLETE PENETRATION WELDS. ALL EXPOSED BUTT WELDS SHALL BE GROUND SMOOTH.
11. ALL EXPOSED WELDS ON ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) SHALL COMPLY WITH AISC CODE OF STANDARD PRACTICE, SECTION 10.
12. FIELD WELDS HAVE BEEN INDICATED WHERE THEY ARE EXPECTED TO OCCUR. THE CONTRACTOR SHALL DETERMINE THE ACTUAL FIELD WELDING NECESSARY TO COMPLETE THE PROJECT AND INCLUDE ALL ASSOCIATED COSTS WITHIN THE BASE BID.

COLD-FORMED STEEL FRAMING NOTES:

1. DESIGN, FABRICATION AND ERECTION OF COLD-FORMED STEEL FRAMING SHALL CONFORM TO THE SPECIFICATIONS AND STANDARD OF THE AMERICAN IRON AND STEEL INSTITUTE (AISI), AS CONTAINED IN THE "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS", LATEST EDITION, INCLUDING ALL APPLICABLE AMENDMENTS.
2. ALL COLD-FORMED STEEL FRAMING SHALL BE ERECTED PLUMB AND TRUE TO LINE. TEMPORARY BRACING SHALL BE INSTALLED AND LEFT IN PLACE UNTIL OTHER MEANS IS PROVIDED TO ADEQUATELY BRACE THE STRUCTURE.
3. COLD-FORMED STEEL GRADES:
   A. 18 GA (43 MILS) OR THINNER ....ASTM A1003 GRADE 33 (FY = 33 KSI)
   B. 16 GA (54 MILS) AND THICKER ....ASTM A1003 GRADE 50 (FY = 50 KSI)
4. ALL COLD-FORMED STEEL FRAMING SHALL BE BRACED AS REQUIRED BY SECTION D3 OF THE AISI SPECIFICATION.
5. SUBMIT COLD-FORMED STEEL FRAMING SHOP DRAWINGS AND SPECIFICATIONS TO THE SEOR FOR REVIEW PRIOR TO FABRICATION.
6. COLD-FORMED STEEL STUDS AND TRACKS ARE TO BE ATTACHED WITH SHEET METAL SCREWS (SMS) WITH SIZES CALLED OUT ON THE DETAILS. PENETRATION OF SCREWS THROUGH JOINED MATERIAL SHOULD NOT BE LESS THAN 3 EXPOSED THREADS. SCREWS ARE TO BE INSTALLED AND TIGHTENED IN ACCORDANCE WITH SCREW MANUFACTURER'S RECOMMENDATIONS.
7. ALL HOLES FOR BOLTS SHOULD BE SHALL BE STANDARD HOLES.

COMPLETE JOINT PENETRATION CONNECTION NOTES:

WELDING ELECTRODES
A. SMAW E7018*
B. FCAW E70 SERIES*

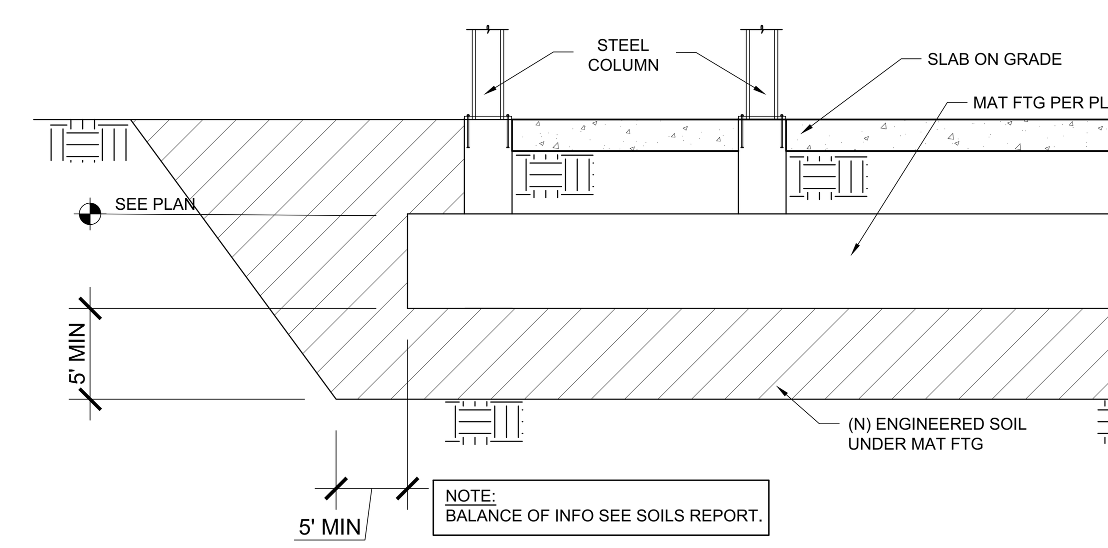
* WELD METAL SHALL BE CAPABLE OF DELIVERING A MINIMUM OF 20 FT-LBS AT -0°F AND 40FT-LBS @ 70°F AS MEASURED BY A CHARPY V-NOTCH IMPACT TEST PER AWS D1.1AND D1.8, APPENDIX III.

* BASE METAL FOR STRUCTURAL SHAPES IN SIZE GROUP 4 & 5 W/ $t_f \geq 1\frac{1}{2}$" SHALL BE CAPABLE OF DELIVERING A MINIMUM OF 20 FT-LBS AT 70°. F AS MEASURED BY A CHARPY V-NOTCH IMPACT TEST PER A.I.S.C. MANUAL OF STEEL CONSTRUCTION, LATEST EDITION.

STRUCTURAL STEEL
1. ALL WELDING SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY (AWS) STRUCTURAL WELDING CODE FOR STEEL AWS D1.1-10 AND D1.8.
2. WELDING PROCEDURE SPECIFICATIONS (WPS) SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL, PRIOR THE ENGINEER FOR APPROVAL, PRIOR TO THE BEGINNING OF WELDING OPERATIONS. THE WPS SHALL INCLUDE THE WELDING PARAMETERS RECOMMENDED BY THE ELECTRODE MANUFACTURER. SEE AWS D1.1 APPENDIX E, FORM E-1. JOINT DETAILS TO SUIT EXISTING CONDITIONS. THE WELDING ELECTRODE MANUFACTURER'S SPECIFICATIONS SHALL BE ATTACHED TO THE WPS. ALL WELDERS AND INSPECTORS SHALL BE INFORMED OF THE WPS AND SHALL RETAIN A COPY.
3. SEE AWS FOR PREQUALIFIED SMAW WPS'S.
4. SEE AWS FOR PREQUALIFIED FCAW WPS'S.
5. WELDING TO BE DONE BY WELDERS CERTIFIED BY AWS.
6. ONLY SHIELDED METAL ARC WELDING (SMAW) WITH LOW HYDROGEN ELECTRODES OR FLUX CORE ARC WELDING (FCAW), EITHER GAS SHIELDED OF SELF SHIELDED, SHALL BE USED. FOR SMAW, THE TYPICAL REQUIREMENTS SHALL BE ACCORDING TO NOTE #3 ABOVE. WELDING PROCEDURES SHALL MEET THE REQUIREMENTS OF AWS D1.1 4.6.2, OR SHALL BE QUALIFIED BY TEST. FOR FCAW, THE TYPICAL REQUIREMENTS SHALL BE ACCORDING TO NOTE #4 ABOVE. THE WELDING PROCEDURE SHALL MEET THE REQUIREMENTS OF AWS D1.1 4.14.1.6.
7. INDIVIDUAL WELDS SHALL BE CARRIED CONTINUOUSLY TO COMPLETION BEFORE THE JOINT IS ALLOWED TO COOL BELOW THE MINIMUM SPECIFIED PREHEAT AND INTERPASS TEMPERATURE.
8. AT ALL COMPLETE PENETRATION WELDS, WELD BEADS SHALL BE PEENED AFTER EACH PASS, WITH THE EXCEPTION OF THE ROOT PASS AND THE SURFACES PASSES, AS FOLLOWS: TURN SLAG GUN 90 DEG. AND MAKE A MINIMUM OF 4 PASSES WITH DULL CHISEL.
9. PREHEATING IS REQUIRED ON ALL TACK WELDS NOT INCORPORATED INTO FINAL WELDS. SEE AWS D1.1, SECTION 3.3.7.
10. FOR BEAM FLANGE REINFORCEMENT PLATES, THE ROLLING DIRECTION OF GRAIN SHALL BE INDICATED ON THE PLATE AND INSTALLED SO THAT THE GRAIN DIRECTION IS PARALLEL TO THE LONGITUDINAL AXIS OF THE MEMBER.
11. FULL TIME VISUAL INSPECTION BY AN AWS QC-1 QUALIFIED INSPECTOR IS REQUIRED FOR ALL WELDING.
12. 100% ULTRASONIC WELD TESTING BY THE INSPECTOR IS REQUIRED FOR ALL COMPLETE PENETRATION WELDS.
13. AMPEREAGE, VOLTAGE, POLARITY AND ELECTRODE STICK OUT SHALL BE VERIFIED TO BE IN COMPLIANCE WITH THE ELECTRODE MANUFACTURER'S RECOMMENDATIONS.
14. REMOVE B.U. BARS AND WELD TABS AT ALL FLANGE COMPLETE JOINT PENETRATION (CJP) WELDS . TYPICAL UNLESS NOTED OTHERWISE.

METAL DECK NOTES (FILLED & UNFILLED):

1. MATERIAL FOR METAL DECK SHALL HAVE A MIN YIELD STRENGTH OF 50 KSI AND CONFORM TO ASTM A653-SS GRADE 50 WITH GALVANIZED G60 COATING COMPLYING WITH ASTM A525.
2. SEE TYPICAL DETAILS FOR REINFORCING OF DECK AROUND OPENINGS. CONTRACTOR SHALL COORDINATE SIZE AND LOCATIONS OF OPENINGS WITH THE VARIOUS TRADES. NO LOADS SHALL BE HUNG FROM DECK WITHOUT APPROVAL OF SEOR.
3. FLOOR AND ROOF DECK IS DESIGNED FOR UNSHORED CONSTRUCTION, UNO. MAINTAIN 3 SPAN CONDITION WHEREVER POSSIBLE (2 SPAN MIN) EXCEPT AT STAIR LANDING AND WHERE NOTED OTHERWISE ON PLANS.
4. PROVIDE 2" MINIMUM BEARING AT ALL SUPPORTS. END LAPS OF METAL DECK SHALL BE A MINIMUM OF 2" AND SHALL OCCUR ONLY OVER SUPPORTS. DECK SHALL BE LAID OUT SO THAT A LOW FLUTE FALLS ON EACH PARALLEL SUPPORT.
5. INSTALL DECK BY WELDING. USE 3/4" DIAMETER PUDDLE WELDS OR WELDED STUDS TO SUPPORTS SPACED AS SHOWN ON CONSTRUCTION DRAWINGS. SPACING FOR TOP SEAM, SIDE SEAM, BUTTON PUNCH, OR PUNCHLOK CONNECTION SHALL BE IN ACCORDANCE WITH DRAWINGS. SEE TYPICAL METAL DECK DETAILS..
6. SUBMIT SHOP DRAWINGS FOR METAL DECK TO THE SEOR FOR REVIEW PRIOR TO FABRICATION. SHOP DRAWINGS SHALL SHOW TYPE OF DECK, LAYOUT OF DECK, THE SIZE AND LOCATION OF ANY OPENINGS OF WIDTH GREATER THAN 1'-0", AND ATTACHMENT METHOD.
7. ALTERNATES TO TYPE OF DECK AND FASTENING MAY BE USED WITH THE APPROVAL OF THE SEOR. DECK PROPERTIES SHALL BE EQUAL TO OR GREATER THAN THOSE SHOWN ON THE PLANS. ANY DECK OR METHOD OF FASTENING SHALL HAVE LATEST EVALUATION REPORT PER CURRENT CODE APPROVING THE DECK FOR THE APPLICATION.
8. METAL DECK WITH CONCRETE FILL SHALL HAVE POSITIVE VENTING. DO NOT EMBED PIPES, SLEEVES, CONDUIT, ETC IN CONCRETE TOPPING UNO.



OVER EXCAVATION DETAIL

IDENTIFICATION STAMP
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APP. 03-119686 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/14/2019

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GENERAL NOTES

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S0-0.1

POST INSTALLED ANCHORS (DSA):

1. ANCHOR DIAMETER REFERS TO THE THREAD SIZE FOR THE WEDGE & SHELL CATEGORIES AND TO THE ANCHOR OUTSIDE DIAMETER FOR THE SLEEVE CATEGORY.
2. APPLY PROOF TEST LOADS TO WEDGE & SLEEVE ANCHORS WITHOUT REMOVING THE NUT IF POSSIBLE. IF NOT, REMOVE NUT & INSTALL A THREADED COUPLER TO THE SAME TIGHTNESS OF THE ORIGINAL NUT USING A TORQUE WRENCH & APPLY LOAD.
3. FOR SLEEVE/SHELL INTERNALLY THREADED CATEGORIES, VERIFY THAT THE ANCHOR IS NOT PREVENTED FROM WITHDRAWING BY A BASEPLATE OR OTHER FIXTURES. IF RESTRAINT IS FOUND, LOOSEN AND SHIM OR REMOVE FIXTURE(S) PRIOR TO TESTING.
4. REACTION LOADS FROM TEST FIXTURES MAY BE APPLIED CLOSE TO THE ANCHOR BEING TESTED, PROVIDED THE ANCHOR IS NOT RESTRAINED FROM WITHDRAWING BY THE FIXTURE(S).
5. SHELL TYPE ANCHORS MUST BE TESTED AS FOLLOWS: VISUALLY INSPECT 25% FOR FULL EXPANSION AS EVIDENCED BY THE LOCATION OF THE EXPANSION PLUG IN THE ANCHOR BODY. PLUG LOCATION OF A FULLY EXPANDED ANCHOR SHOULD BE AS RECOMMENDED BY THE MANUFACTURER, OR, IN THE ABSENCE OF SUCH RECOMMENDATION, AS DETERMINED ON THE JOB SITE FOLLOWING THE MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND; PROOF LOAD 5% AS INDICATED IN THE TABLE ABOVE, BUT NOT LESS THAN THREE ANCHORS PER DAY FOR EACH DIFFERENT PERSON OR CREW INSTALLING ANCHORS, OR; TEST 50% OF THE INSTALLED ANCHORS PER 2624(d).
6. TEST EQUIPMENT IS TO BE CALIBATED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH STANDARD RECOGNIZED PROCEDURES.
7. TORQUE TEST VALUES FOR SHELL TYPE ANCHORS ARE OMMITTED DUE TO LACK OF DATA. TORQUE TESTING CAN OCCUR ON AN INDIVIDUAL BASIS WHEN TEST PROCEDURES ARE SUBMITTED AND APPROVED BY THE ENFORCEMENT AGENCY. TABULATED VALUES MAY BE FORTHCOMING ONCE THE ENFORCEMENT AGENCY HAS MORE DATA TO EVALUATE THE FEASIBLITY OF STANDARD TORQUE VALUES.
8. THE FOLLOWING CRITERIA APPLY FOR THE ACCEPTANCE OF INSTALLED ANCHORS:
   A. HYDRAULIC RAM METHOD: THE ANCHOR SHOULD HAVE NO OBSERVABLE MOVEMENT AT THE APPLCABLE TEST LOAD. FOR WEDGE AND SLEEVE TYPE ANCHORS, A PRACTICAL WAY TO DETERMINE OBSERVABLE MOVEMENT IS THAT THE WASHER UNDER THE NUT BECOMES LOOSE.
   B. TORQUE WRENCH METHOD: THE APPLICABLE TEST TORQUE MUST BE REACHED WITHIN THE FOLLOWING LIMITS: WEDGE OR SLEEVE TYPE: ONE-HALF (1/2) TURN OF THE NUT. 3/8 IN. SLEEVE ANCHOR ONLY: ONE-QUARTER (1/4) TURN OF THE NUT.
9. TESTING SHOULD OCCUR 24 HOURS MINIMUM AFTER INSTALLATION OF THE SUBJECT ANCHORS.
10. WHEN INSTALLING DRILLED-IN ANCHORS AND/OR POWDER DRIVEN PINS IN EXISTING NON-PRESTRESSED REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. WHEN INSTALLING THEM INTO EXISTING PRESTRESSED CONCRETE (PRE- OR POST-TENSIONED) LOCATE THE PRESTRESSED TENDONS BY USING A NON-DESTRUCTIVE METHOD PRIOR TO INSTALLATION. EXERCISE EXTREME CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE TENDONS DURING INSTALLATION. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND THE DRILLED-IN ANCHOR AND/OR PIN.
11. ALL TESTS SHALL BE PERFORMED IN ACCORDANCE W/ CBC 1910.A5. W/ THE PRESENCE OF THE SPECIAL INSPECTOR/INSPECTOR OF RECORD.
12. TEST LOADS:

EPOXY ANCHORS:

EPOXY ANCHORS IN NORMAL WEIGHT CONCRETE(3000PSI MIN)		
THREADED ROD DIAMETER (IN)	EMBEDMENT (IN)	TENSION TEST VALUE (LBS) SIMPSON SET-XP (ICC-ESR-2508)
3/8	3	3650
1/2	4	5540
5/8	5	7440
3/4	6	9520
7/8	7	9550
1	8	13830
1 1/4	10	21610

* LISTED EPOXY ADHESIVE MAY NOT BE USED WITH NOTED ROD SIZES

EPOXY ANCHORS IN NORMAL-WEIGHT CONCRETE (3000 PSI MIN)		
REBAR SIZE	EMBEDMENT (IN)	TENSION TEST VALUE (LBS) SIMPSON SET-XP
#3	3	*
#4	4	5790
#5	5	6250
#6	6	8450
#7	7	11070
#8	8	17050
#9	9	*
#10	10	*

* LISTED EPOXY ADHESIVE MAY NOT BE USED WITH NOTED ROD SIZES

1. TESTING OF EPOXY DOWELS AT JOINTS BETWEEN NEW AND EXISTING SLABS-ON-GRADE IS NOT REQUIRED
2. TESTING OF #3 EPOXY DOWELS AT CURBS AND HOUSEKEEPING PADS IS NOT REQUIRED.

SCREW ANCHOR: SIMPSON TITEN HD (ICC-ESR-2713)

SIMPSON TITEN HD IN NORMAL WEIGHT CONCRETE (3000PSI MIN)		
ANCHOR DIAMETER (IN)	NOMINAL EMBEDMENT (IN)	TENSION TEST VALUE (LBS)
3/8	2 1/2	1200
1/2	3 1/4	2973
3/4	5 1/2	5895

EXPANSION ANCHOR IN MASONRY: HILTI KWIK-BOLT 3 (ICC-ESR-1385)

HILTI KWIK-BOLT 3 IN MASONRY		
ANCHOR DIAMETER (IN)	H (IN)	TORQUE TEST VALUE (FT-LBS)
3/8	2 1/2	15
1/2	3 1/2	25
5/8	4	65
3/4	4 3/4	120

1. H IS MEASURED FROM FACE OF CONCRETE SUBSTRATE TO THE END OF THE BOLT.
2. CONTRACTOR SHALL PROVIDE ANCHORS WITH SUFFICIENT TOTAL LENGTH FOR THE SPECIFIED EMBEDMENT LENGTH, THICKNESS OF FASTENED PART, WASHER, AND NUT.

EXPANSION ANCHOR IN CONCRETE: HILTI KWIK-BOLT TZ (ICC-ESR-1917)

HILTI KWIK BOLT TZ IN NORMAL-WEIGHT CONCRETE			
ANCHOR DIAMETER (IN)	Hef (IN)	MINIMUM HOLE DEPTH (IN)	TORQUE TEST VALUE (FT-LBS)
3/8	2	2 5/8	25
1/2	2	2 5/8	40
5/8	4	4 3/4	60
3/4	4 3/4	5 3/4	110

HILTI KWIK BOLT TZ IN LIGHTWEIGHT CONCRETE			
ANCHOR DIAMETER (IN)	Hef (IN)	MINIMUM HOLE DEPTH (IN)	TORQUE TEST VALUE (FT-LBS)
3/8	2	2 5/8	25
1/2	2	2 5/8	40
5/8	3 1/8	3 3/4	60

1. Hef IS MEASURED FROM FACE OF CONCRETE SUBSTRATE TO THE TEETH END OF THE EXPANSION ELEMENT.
2. CONTRACTOR SHALL PROVIDE ANCHORS WITH SUFFICIENT TOTAL LENGTH FOR THE SPECIFIED EMBEDMENT LENGTH, THICKNESS OF FASTENED PART, WASHER, AND NUT.

POWDER-ACTUATED FASTENER (PAF):

1. POWDER-ACTUATED FASTENERS SHALL BE ONE OF THE FOLLOWING, UON:

   HILTI X-U (ICC-ESR 2269) AT METAL.
2. PROVIDE 0.08" THK X 1.1" SQUARE OR 1.425" ROUND WASHERS FOR ALL PODER-ACTUATED FASTENERS.
3. FASTENER DIAMETER AND EMBEDMENT SHALL BE AS SPECIFICALLY DETAILED ELSEWHERE IN THE DRAWINGS.
4. TESTING IS NOT REQUIRED FOR POWER-ACTUATED FASTENERS USED TO ATTACH TRACKS/SILL OF INTERIOR NON-SHEAR WALL PARTITIONS FOR SHEAR ONLY, WHERE THERE ARE AT LEASE THREE FASTENERS PER SEGMENT OF TRACK/SILL

STRUCTURAL OBSERVATIONS:

1. VISUAL OBSERVATIONS WILL BE PERFORMED AT THE DISCRETION OF THE OWNER, ARCHITECT, SEOR, AND AS REQUIRED BY THE BUILDING OFFICIAL IN ACCORDANCE WITH THE BUILDING CODE.
2. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO NOTIFY THE STRUCTURAL ENGINEER AS TO WHEN EACH MAJOR PHASE OF CONSTRUCTION IS READY FOR OBSERVATION A MINIMUM OF FIVE (5) WORKING DAYS IN ADVANCE.
3. THE FOLLOWING MAJOR PHASES OF CONSTRUCTION REQUIRE A SITE VISIT AND STRUCTURAL OBSERVATION REPORT FROM THE SEOR:
   - FOUNDATION REBAR AND ANCHORS - PRIOR TO POUR OF CONCRETE
   - STRUCTURAL FRAMING - AFTER ERECTION AND PRIOR TO CLOSING IN
   - RAISED FLOOR SLABS AND REBAR - PRIOR TO POUR OF CONCRETE
   - COMPLETION OF THE STRUCTURAL SYSTEM
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT NAILING, REINFORCEMENT, WELDS, CONNECTIONS, ETC. ARE VISIBLE FOR OBSERVATION WHEN THE SEOR IS ON SITE AND FOR ANY SCHEDULING DELAYS DUE TO NONCOMPLIANT ITEMS FOUND DURING THE OBSERVATION.

CONTRACTOR RESPONSIBILITY NOTE: (DSA)

1. EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN LATERAL-FORCE-RESISTING SYSTEM, DESIGNATED ON PLANS SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN THE FOLLOWING:
   A. ACKNOWLEDGMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS.
   B. ACKNOWLEDGMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL.
   C. PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING AND THE DISTRIBUTION OF THE REPORTS.
   D. IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.

STATEMENT OF SPECIAL INSPECTIONS:

1. THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTIONS DURING CONSTRUCTION. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
2. SPECIAL INSPECTIONS ARE NOT REQUIRED WHERE THE WORK IS DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION. APPROVED FABRICATORS MUST SUBMIT A CERTIFICATE OF COMPLIANCE FOR OFFSITE FABRICATIONS SUCH AS STRUCTURAL STEEL, PRECAST CONCRETE, GLUED LAMINATED TIMBER, ETC.
3. ALL INSPECTIONS SHALL BE PERFORMED BY INDEPENDENT SPECIAL INSPECTORS. JOB SITE VISITS BY THE STRUCTURAL ENGINEER OR BUILDING OFFICIAL DO NOT CONSTITUTE AND ARE NOT A SUBSTITUTE FOR INSPECTIONS BY A SPECIAL INSPECTOR.
4. ALL INSPECTION REPORTS SHALL BE SUBMITTED TO DSA AND SEOR. THE FINAL REPORTS BY THE SPECIAL INSPECTOR(S) MUST CERTIFY THAT THE ENTIRE STRUCTURAL SYSTEM COMPLIES WITH THE APPROVED PLANS AND SPECIFICATIONS.
5. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO SEE THAT THESE INSPECTIONS ARE PERFORMED.
6. WORK REQUIRING SPECIAL INSPECTION SHALL BE INSPECTED BY THE SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS PERFORMED AND AT THE COMPLETION OF WORK. CONTINUOUS INSPECTION CONSISTS OF FULL-TIME INSPECTION; PERIODIC INSPECTION CONSISTS OF PART-TIME OR INTERMITTENT INSPECTION.
7. THE FOLLOWING SPECIAL INSPECTIONS ARE IN ADDITION TO INSPECTIONS BY THE BUILDING OFFICIAL. THIS LIST IS NOT INTENDED TO BE ALL INCLUSIVE.
8. REFER TO DSA 103 SPECIAL INSPECTION FORM FOR ALL TEST AND INSPECTION REQUIRED, AS WELL AS CALIFORNIA BUILDING CODE CHAPTER 17A.

TYPICAL ABBREVIATIONS

AB	ANCHOR BOLT	INT	INTERIOR
ABV	ABOVE	JST	JOIST
ADDT'L	ADDITIONAL	KLF	KIPS PER LINEAR FOOT
ADJ	ADJACENT	KSL	KIPS PER SQUARE FOOT
AFF	ABOVE FINISH FLOOR	KSI	KIPS PER SQUARE INCH
ALT	ALTERNATE	L	ANGLE
ARCH	ARCHITECT(URAL)	LFRS	LATERAL FORCE RESISTING SYSTEM
BLDG	BUILDING	LLH	LONG LEG HORIZONTAL
BLKG	BLOCKING	LLV	LONG LEG VERTICAL
BLW	BELOW	LP	LOW POINT
BM	BEAM	LWC	LIGHTWEIGHT CONCRETE
BN	BOUNDARY NAILING	MAX	MAXIMUM
B.O.	BOTTOM OF	MB	MACHINE BOLT
BOTT	BOTTOM	MECH	MECHANICAL
BRG	BEARING	MFR	MANUFACTURER
BS	BOTH SIDES	MIN	MINIMUM
BTWN	BETWEEN	MTL	METAL
C	CAMBER	(N)	NEW
CIP	CAST IN PLACE	NS	NEAR SIDE OR NON-SHRINK
CJ	CONTROL/ CONSTRUCTION JOINT	NTS	NOT TO SCALE
CL	CENTERLINE	NWC	NORMAL WEIGHT CONCRETE
CLR	CLEAR	OC	ON CENTER
CMU	CONCRETE MASONRY UNIT	O.F.	OUTSIDE FACE
COL	COLUMN	OH	OPPOSITE HAND
CONC	CONCRETE	OPNG	OPENING
CONN	CONNECTION	PDF	POWDER DRIVEN FASTENER
CONT	CONTINUOUS	PJ	PANEL JOIST
CP	COMPLETE PENETRATION	PL	PLATE
CSK	COUNTERSINK	PLC(S)	PLACE(S)
CTR(D)	CENTER(ED)	PLF	POUND PER LINEAR FOOT
D_B	BAR OR BOLT DIAMETER	PLYWD	PLYWOOD
DC	DEMAND CRITICAL	PREFAB	PREFABRICATED
DBL	DOUBLE	PSF	POUND PER SQUARE FOOT
DEMO	DEMOLITION	PSI	POUND PER SQUARE INCH
DET	DETAIL	PT	PRESSURE TREATED OR POST TENSION
DIA	DIAMETER	QTY	QUANTITY
DIAG	DIAGONAL	RAD, R	RADIUS
DIM	DIMENSION	REF	REFERENCE
DO	DITTO	REINF	REINFORCING
DWG	DRAWING	REQD	REQUIRED
(E)	EXISTING	SB	SILL BOLT
EA	EACH	SC	SAW CUT OR SLIP CRITICAL
EF	EACH FACE	SCHED	SCHEDULE
EJ	EXPANSION JOIST	SEOR	STRUCTURAL ENGINEER ON RECORD
EMBED	EMBEDMENT	SHTG	SHEATHING
ELEC	ELECTRICAL	SIM	SIMILAR
ELEV	ELEVATION	SLRS	SEISMIC LOAD RESISTING SYSTEM
EN	EDGE NAILING	SMS	SHEET METAL SCREW
E.O.	EDGE OF	SN	SILL NAIL
EOR	ENGINEER OF RECORD	SOG	SLAB ON GRADE
EQ	EQUAL	SQ	SQUARE
EQUIP	EQUIPMENT	SS	STAINLESS STEEL
ES	EACH SIDE OR EDGE SCREW	STD	STANDARD
EW	EACH WAY	STGRD	STAGGERED
EXP	EXPANSION	STIFF	STIFFENER
EXT	EXTERIOR	STL	STEEL
FIN	FINISH	STRUCT	STRUCTURAL
FLR	FLOOR	T&B	TOP AND BOTTOM
FN	FIELD NAILING	THK	THICK
FND	FOUNDATION	T.O.	TOP OF
F.O.	FACE OF	TOM	TOP OF MASONRY
FS	FAR SIDE OR FIELD SCREW	TOS	TOP OF STEEL
FRMG	FRAMING	TYP	TYPICAL
FT	FOOT OR FEET	UNO	UNLESS NOTED OTHERWISE
FTG	FOOTING	VERT	VERTICAL
G	GIRDER	W/	WITH
GA	GAGE	W/O	WITHOUT
GALV	GALVANIZED	WF	WIDE FLANGE
HAB	HEADED ANCHOR BOLT	WLD	WELDED
HD	HOLDDOWN	WO	WHERE OCCURS
HDR	HEADER	WP	WORK POINT
HGR	HANGER	WT	WEIGHT
HK	HOOK	WWF	WELDED WIRE FABRIC
HORIZ	HORIZONTAL		
HP	HIGH POINT		
HS	HIGH STRENGTH		
HSS	HOLLOW STRUCTURAL STEEL		
HT	HEIGHT		
IN	INCH		

Ø = DIAMETER

= REFERENCE ELEVATION OR WORK POINT

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tBP project number : 20987.00

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GENERAL NOTES

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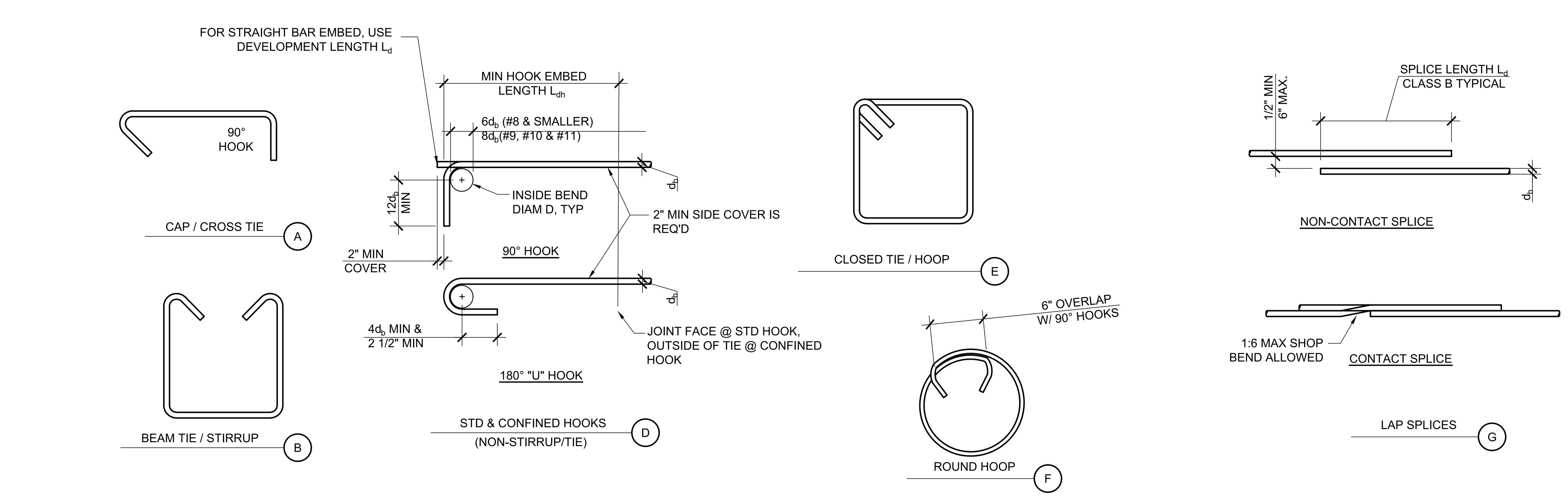
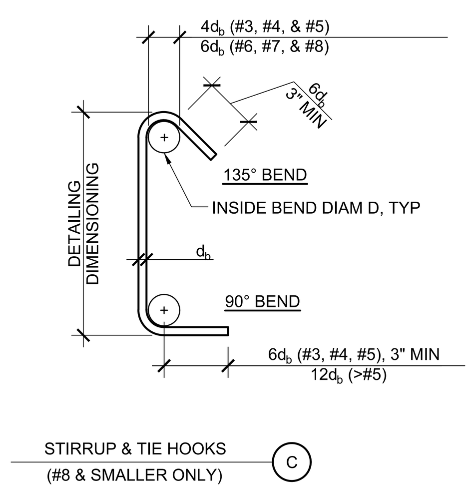
S0-0.2





BAR SIZE	FINISHED BEND DIAMETER "D" IN INCHES
#9	9 1/2"
#10	10 3/4"
#11	12"
#14	18 1/4"
#18	24"

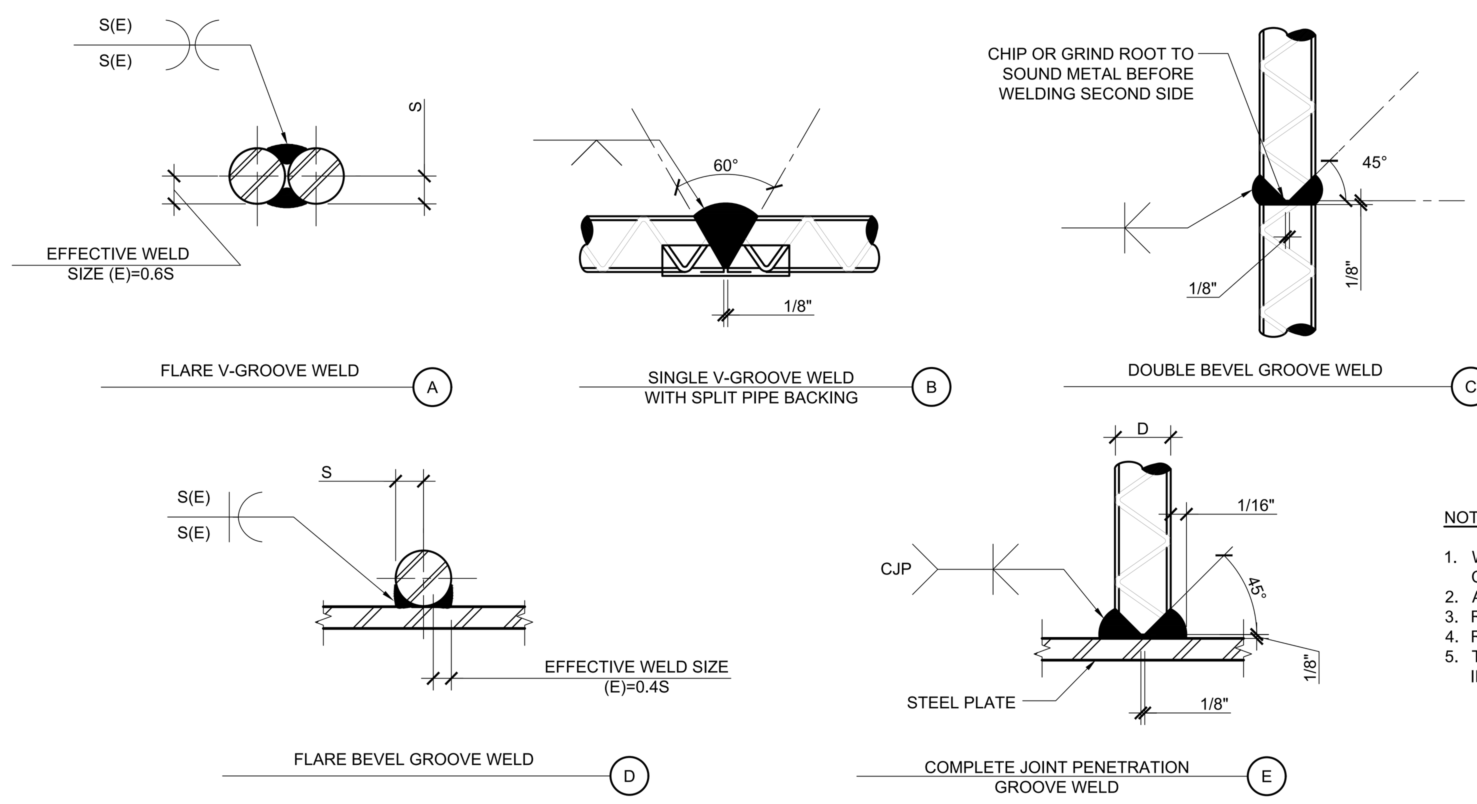
STANDARD HOOKS

	BAR SIZE	L_{dh} (in) STD HOOK	LAP SPLICE (in) CLASS B		L_d (in) DEVELOPMENT LENGTH	
			TOP	OTHER	TOP	OTHER
3000 PSI NWC	#3	6	29	23	22	17
	#4	8	38	29	29	22
	#5	10	47	37	36	28
	#6	12	56	43	43	33
	#7	14	82	63	63	48
	#8	16	94	72	72	55
	#9	18	106	81	81	62
	#10	20	119	91	91	70
	#11	22	132	102	101	78
4000 PSI NWC	#3	6	25	20	19	15
	#4	7	33	25	25	19
	#5	9	41	32	31	24
	#6	10	49	38	37	29
	#7	12	71	55	54	42
	#8	14	81	63	62	48
	#9	15	91	71	70	54
	#10	17	103	80	79	61
	#11	19	114	88	87	67
5000 PSI NWC	#3	6	23	17	17	13
	#4	6	30	23	23	17
	#5	8	37	29	28	22
	#6	9	45	34	34	26
	#7	11	64	50	49	38
	#8	12	73	56	56	43
	#9	14	82	63	63	48
	#10	16	93	71	71	54
	#11	17	102	78	78	60

NOTES:
1. L_{dh} - HOOK DEVELOPMENT LENGTH.
2. L_d - DEVELOPMENT LENGTH.
3. SEE BUILDING CODE AND ACI 318-14 VERSION FOR ALL REQUIREMENTS NOT NOTED.
4. FOR LIGHTWEIGHT CONCRETE MULTIPLY L_{dh} AND L_d VALUES SHOWN BY 1.3.
5. "TOP" BARS ARE HORIZONTAL WITH MORE THAN 12" OF FRESH CONCRETE CAST BELOW BARS. ALL OTHER BARS ARE "OTHER" BARS.
6. STD HOOK L_{dh} DOES NOT ACCOUNT FOR THE EFFECT OF TIES. CONFINED HOOK L_{dh} MAY BE USED WHERE ACI 318-14 25.4.3.1 APPLIES.
7. VALUES SHOWN ABOVE ARE FOR GRADE 60 (FY=60 KSI) REINFORCEMENT.
8. SPLICE LENGTHS SHOWN ARE FOR CLEAR SPACING NOT LESS THAN $2d_b$, CONCRETE COVER NOT LESS THAN d_b.
9. FOR EPOXY-COATED REINFORCEMENT, SEE BUILDING CODE

5 TYPICAL REINFORCEMENT DETAILS AND DEVELOPMENT LENGTHS

1" = 1'-0"

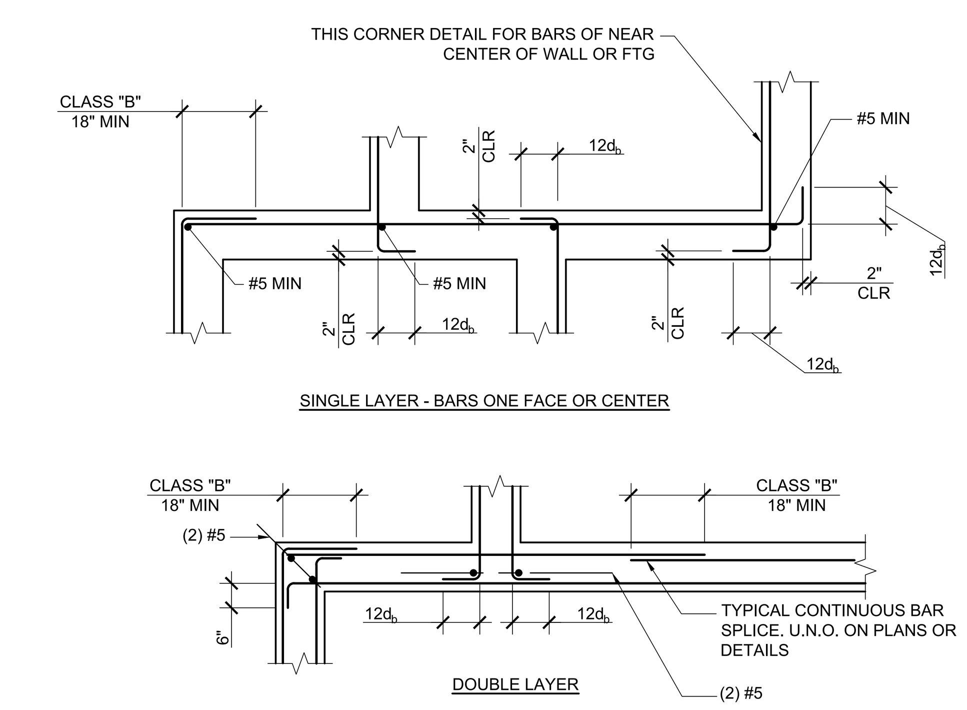


WELD SCHEDULE	
BAR SIZE	MIN WELD LENGTH
#3	3"
#4	3"
#5	3"
#6	4"
#7	5"
#8	5"
#9	6"
#10	6"

NOTES:
1. WELDING SHALL BE WITH LOW HYDROGEN ELECTRODES E90XX AND SHALL CONFORM TO AWS-D1.4.
2. ALL WELDING SHALL BE SUBJECT TO CONTINUOUS INSPECTION.
3. REINFORCING BARS TO BE WELDED SHALL MEET THE REQUIREMENT OF ASTM A706.
4. RADIUS OF REINFORCING BAR = S.
5. THESE ARE SECTIONAL VIEWS. BAR DEFORMATIONS ARE SHOWN ONLY FOR ILLUSTRATIVE PURPOSES.

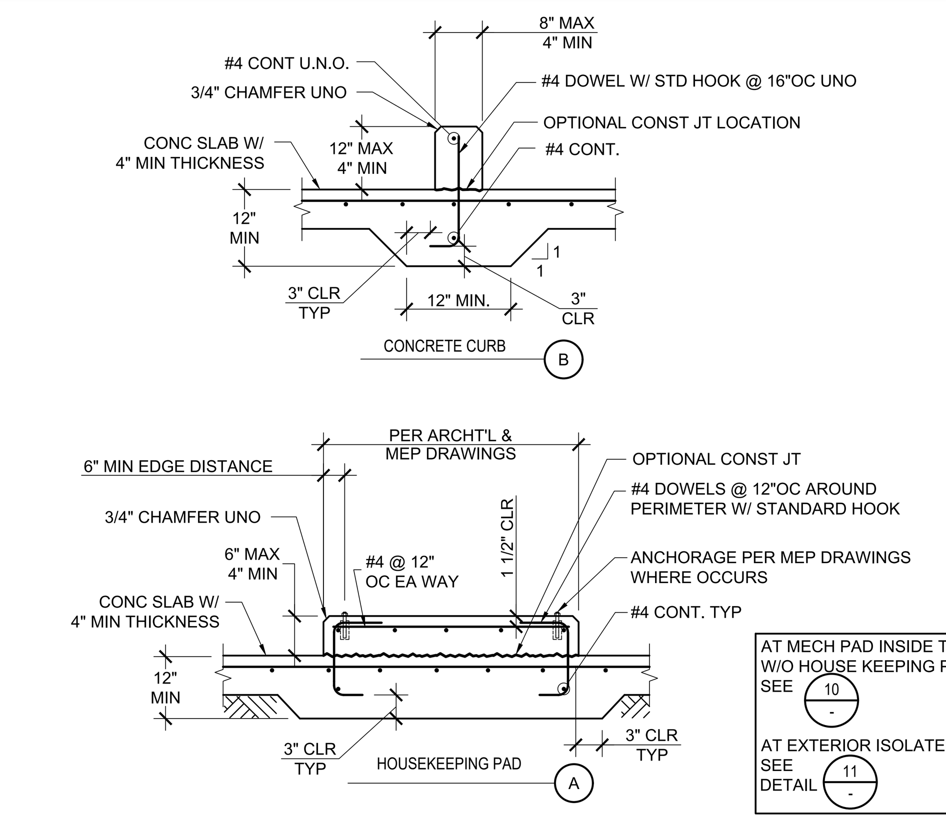
3 TYPICAL REINFORCING BAR WELDING

NTS



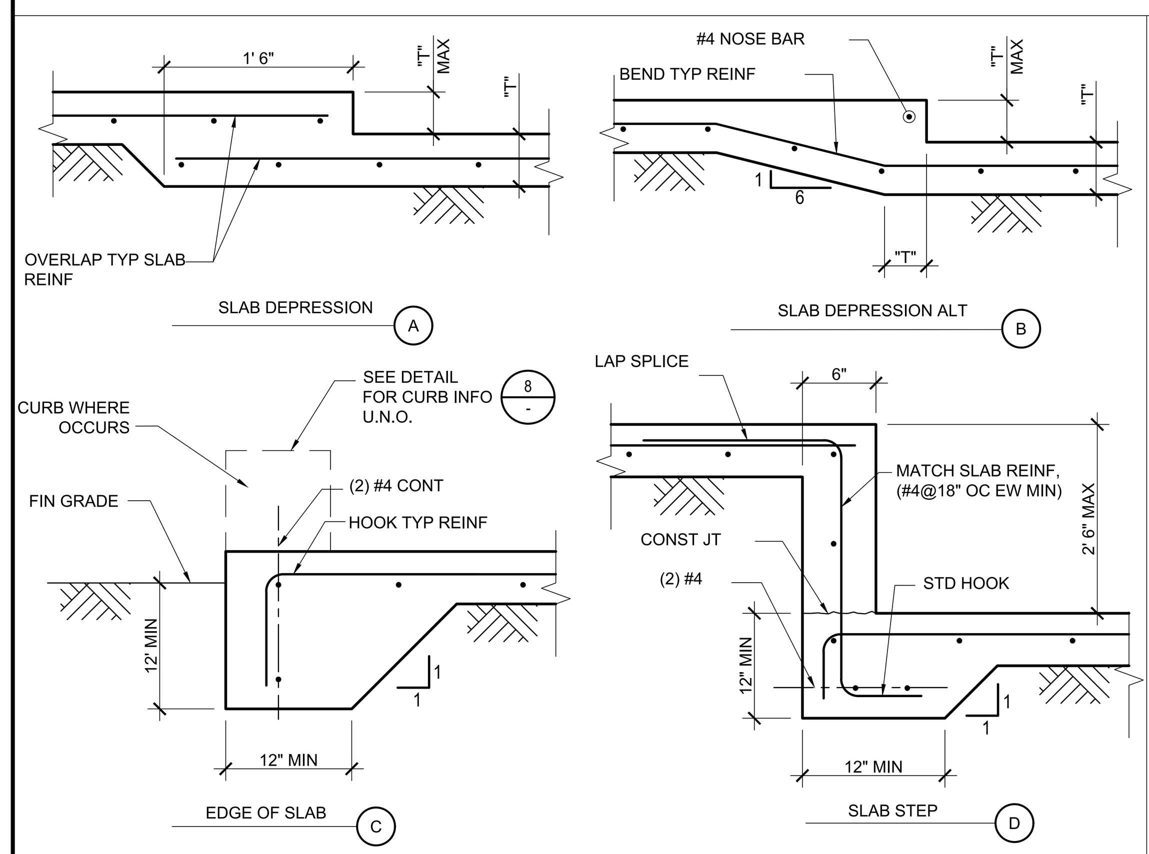
7 REINF BAR SPLICES AT CONT WALL FTGS INTERSECTIONS

NTS



8 TYPICAL CONCRETE PAD AND CURB @ ON GRADE

NTS



9 TYPICAL SLAB ON GRADE DETAILS

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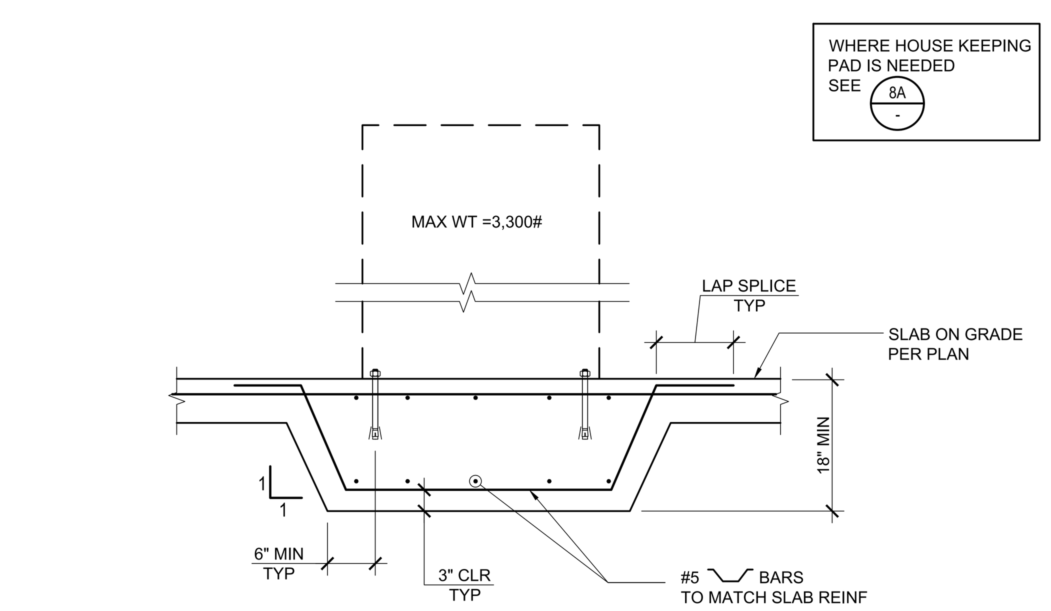
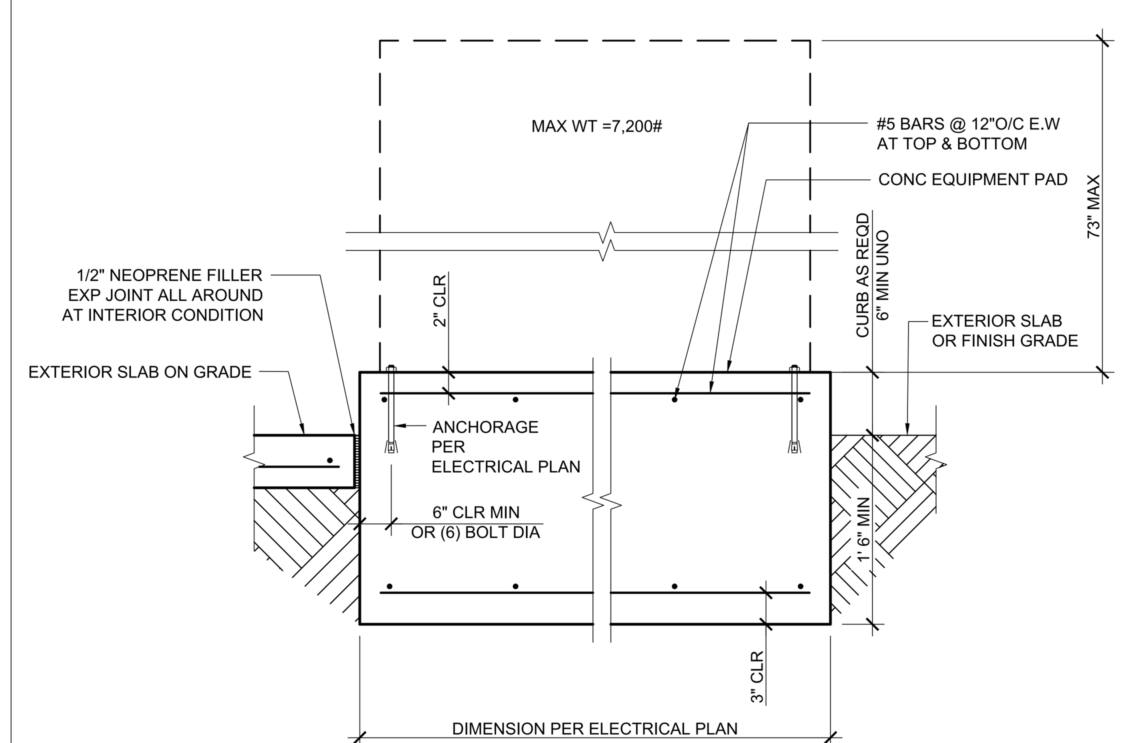


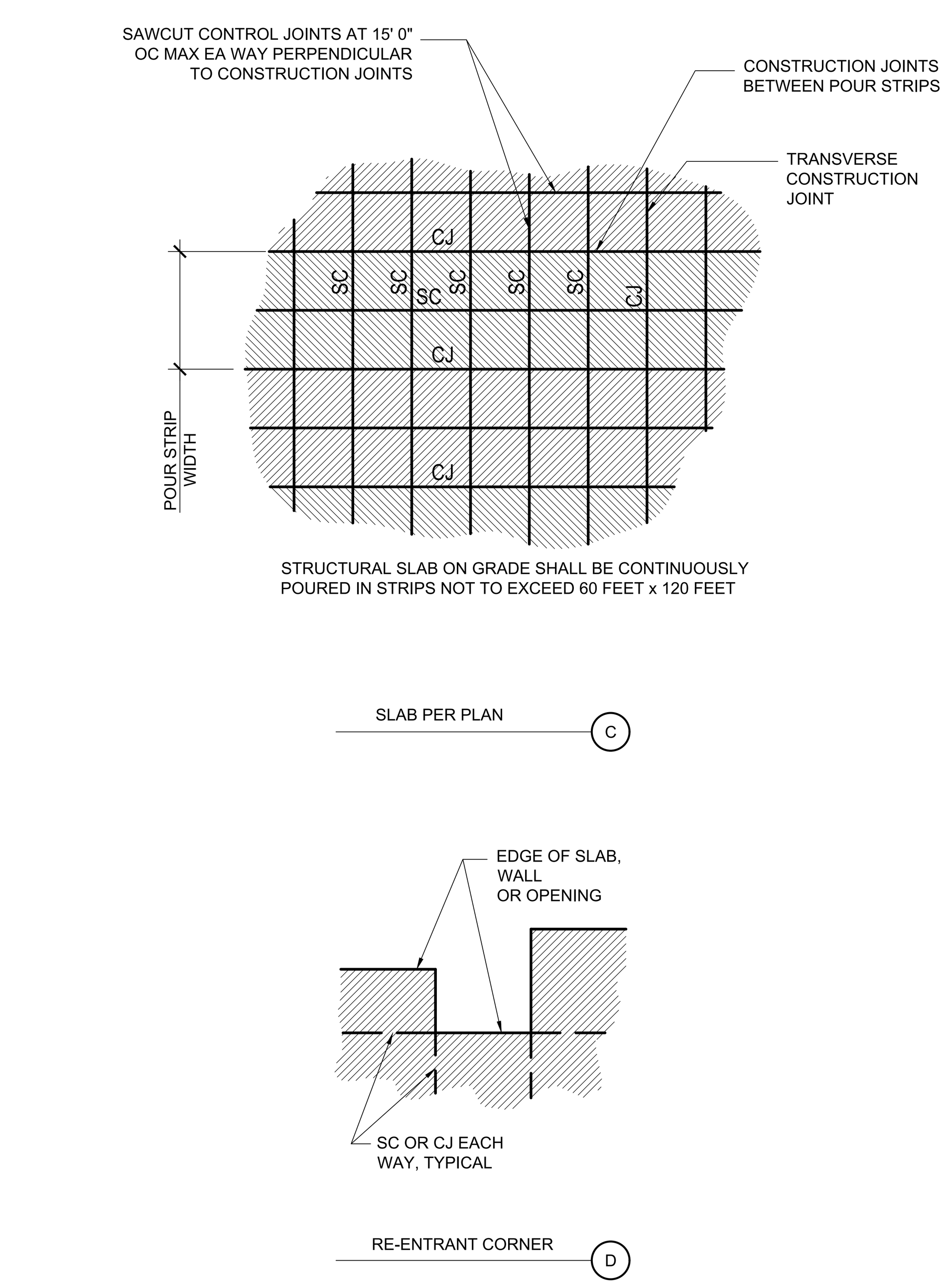
10 EQUIPMENT PAD ON GRADE (INTERIOR)

NTS

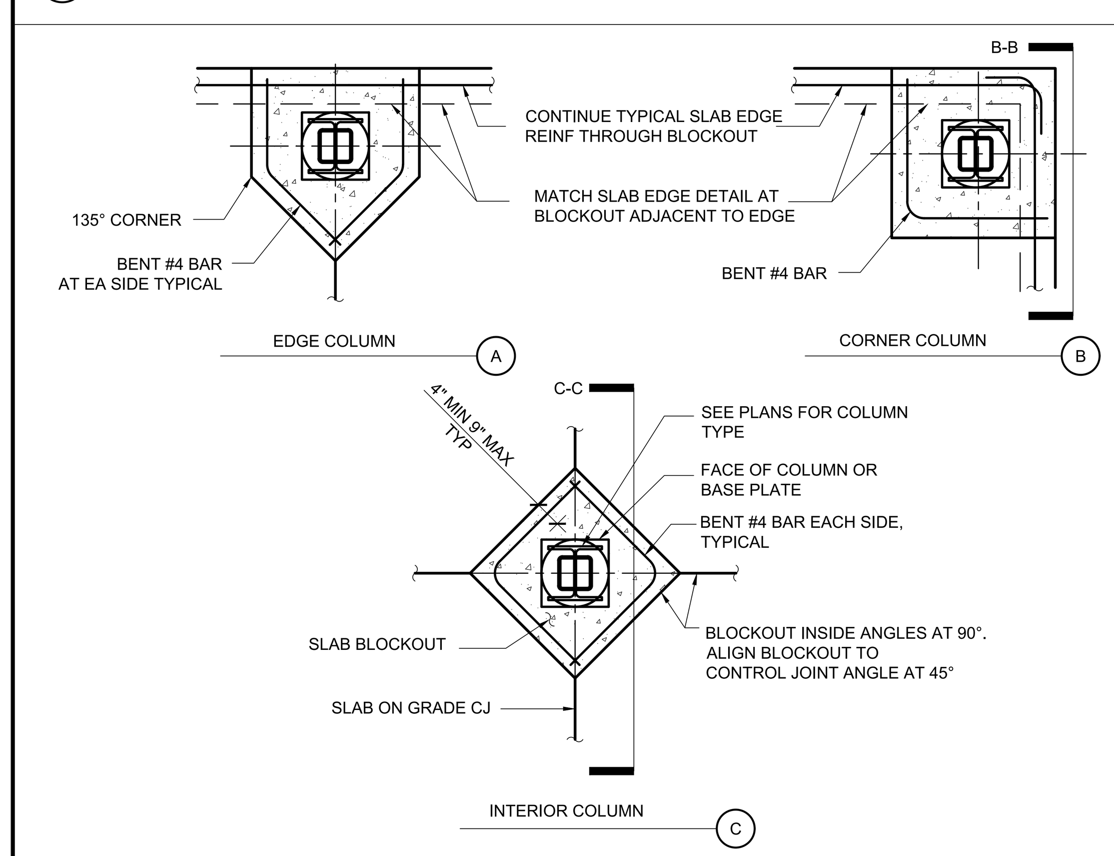


11 TYPICAL ISOLATED EQUIPMENT PAD (EXTERIOR)

NTS

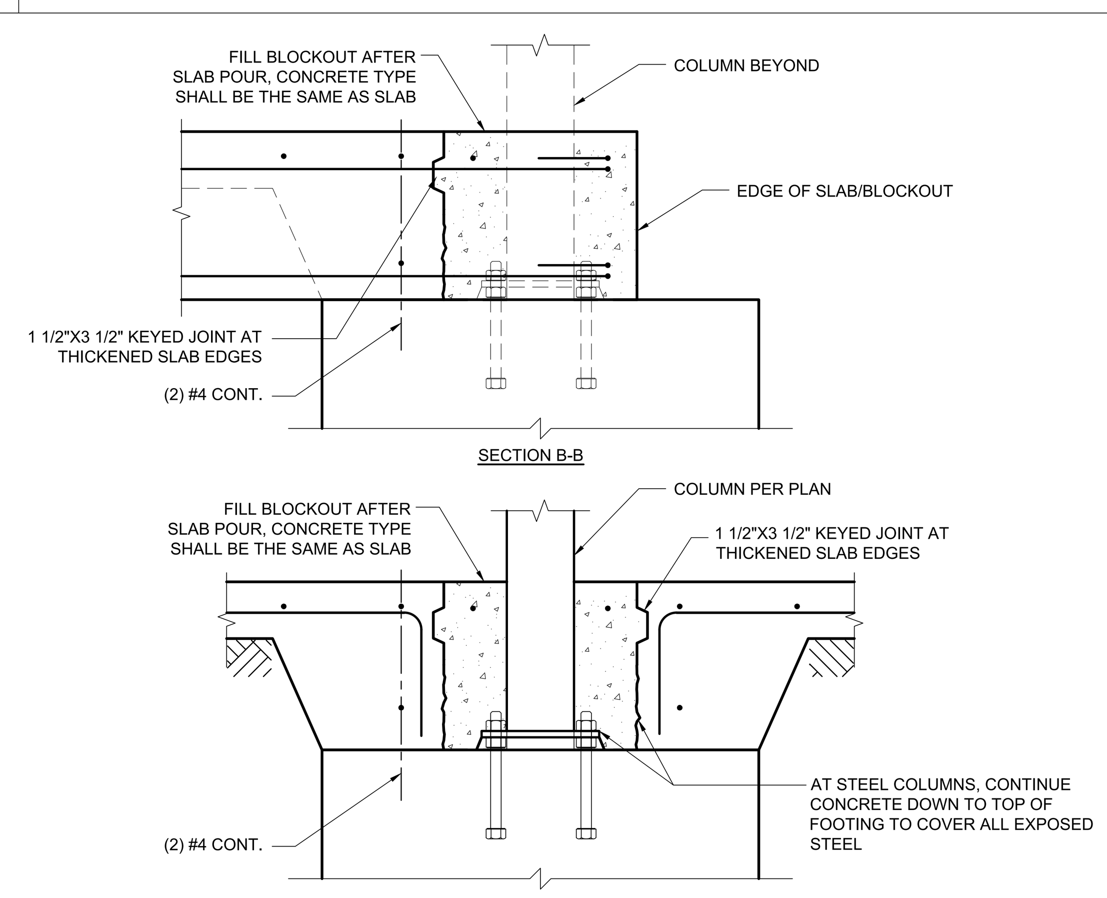


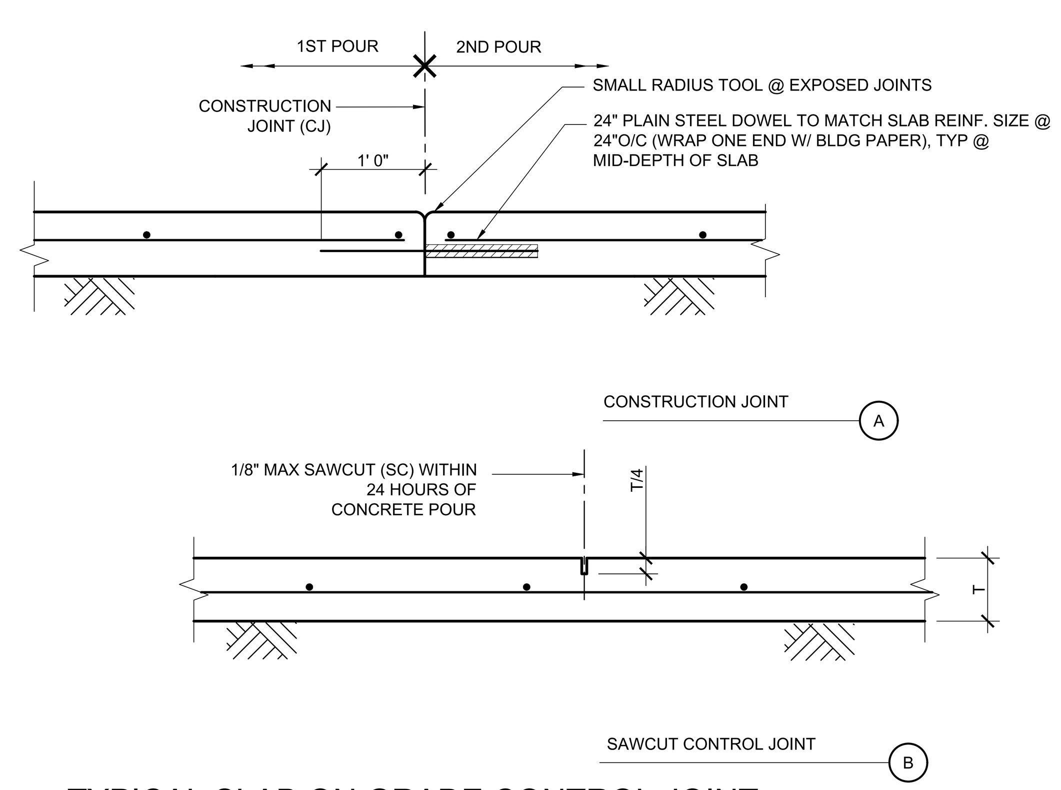
NOTES:
1. SEE ARCHITECTURAL PLANS FOR LOCATIONS OF VISUALLY EXPOSED CONTROL JOINTS.
2. FOR POURING SEQUENCE OTHER THAN THAT SHOWN ON THESE PLANS, SUBMIT SHOP DRAWINGS TO SEOR FOR REVIEW 7 DAYS PRIOR TO POUR.
3. SEE DETAIL 15 FOR SC AND CJ DETAIL.



13 TYPICAL SLAB ON GRADE BLOCKOUT AT COLUMN

NTS





15 TYPICAL SLAB ON GRADE CONTROL JOINT (FOR SLAB THICKNESS 4" TO 6")

NTS

16 TYPICAL SLAB ON GRADE CONTROL JOINT

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TYPICAL DETAILS

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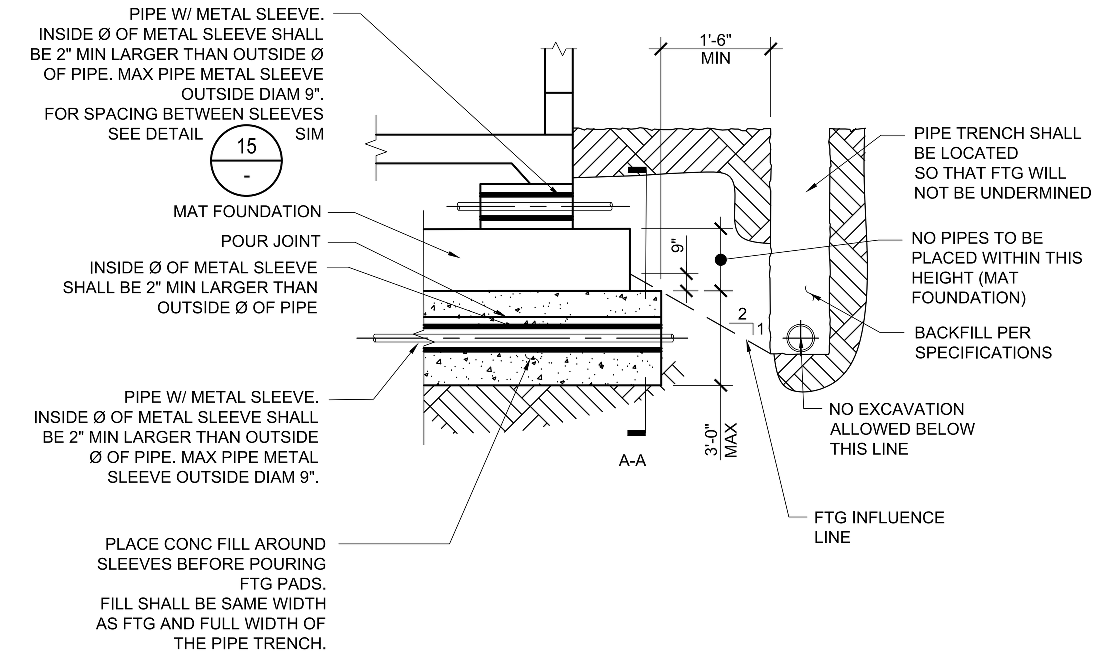
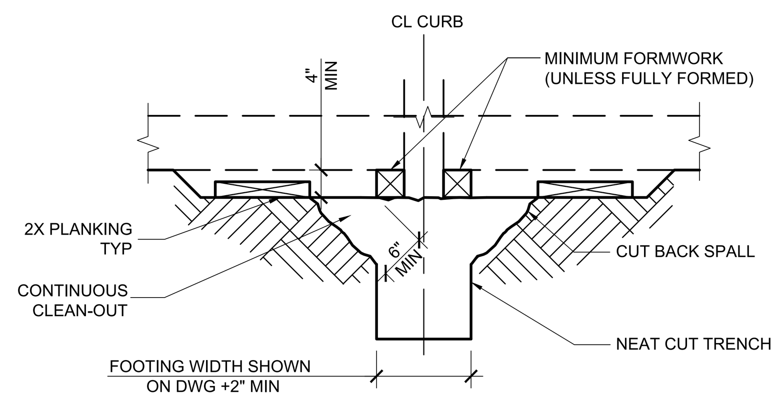
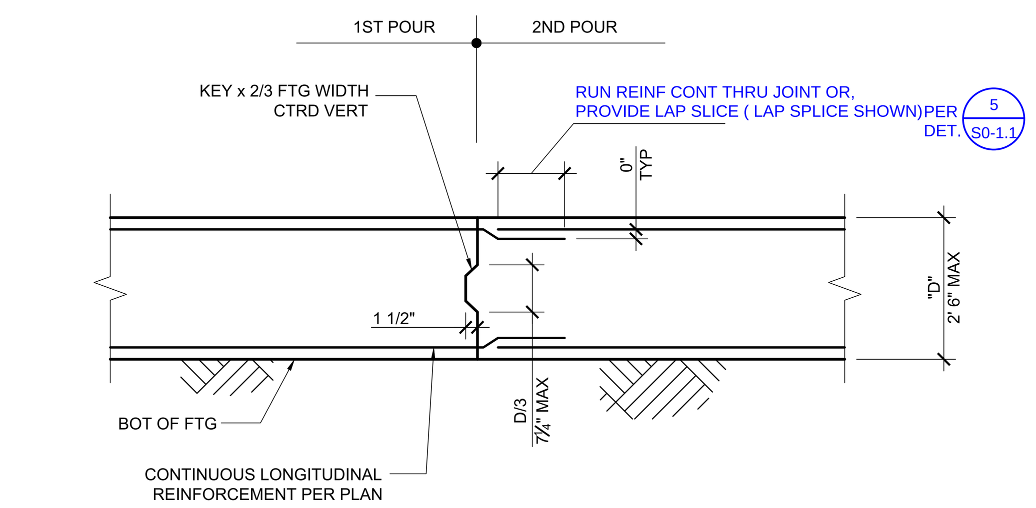




NOTES:
1. FOOTINGS POURED AGAINST EARTH ARE SUBJECT TO APPROVAL OF GEOTECH. ENGR.
2. FOOTING WIDTHS SHALL NOT BE MORE THAN 4" WIDER THAN SHOWN ON PLAN.
3. FORMWORK NOT PERMITTED BELOW GRADE UNLESS FULLY FORMED.
4. FOUNDATION CONCRETE MAY BE PLACED DIRECTLY INTO NEAT EXCAVATIONS PROVIDED THE FOUNDATION TRENCH WALLS ARE STABLE AS DETERMINED BY THE GEOTECHNICAL ENGINEER. THE MINIMUM FORMWORK SHOWN ON THE DRAWINGS IS MANDATORY TO ENSURE CLEAN EXCAVATIONS IMMEDIATELY PRIOR TO AND DURING THE PLACING OF CONCRETE.
5. CONT CLEAN-OUT STAKES NOT PERMITTED IN THE FTG AREA.
6. AFTER CONCRETE HAS SET, REMOVE LAITANCE AND SCUM.

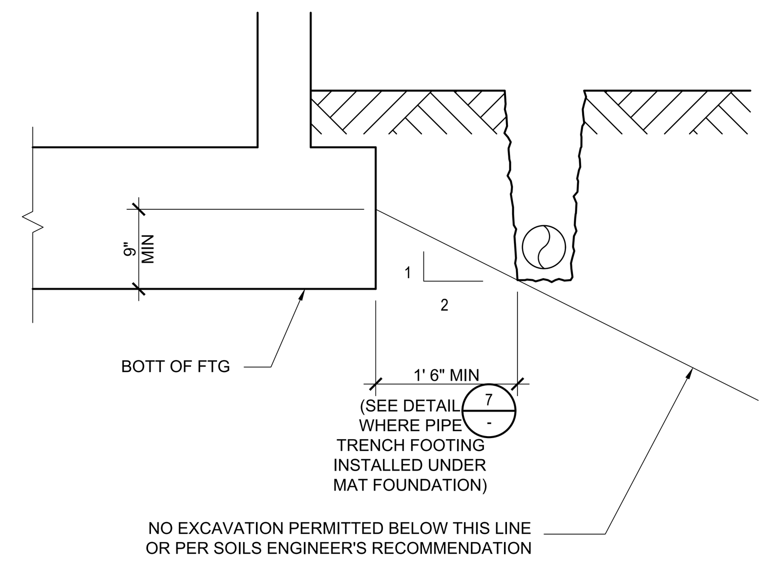


NOTES:
1. PROVIDE ADEQUATE SUPPORT FOR LONGITUDINAL REINF WITHIN 6" OF JT USING FTG TIES, VERT DOWELS OR OTHER MEANS.
2. SECTIONS SHOWN ARE AT CENTER OF FTG IN LONGITUDINAL DIRECTION.

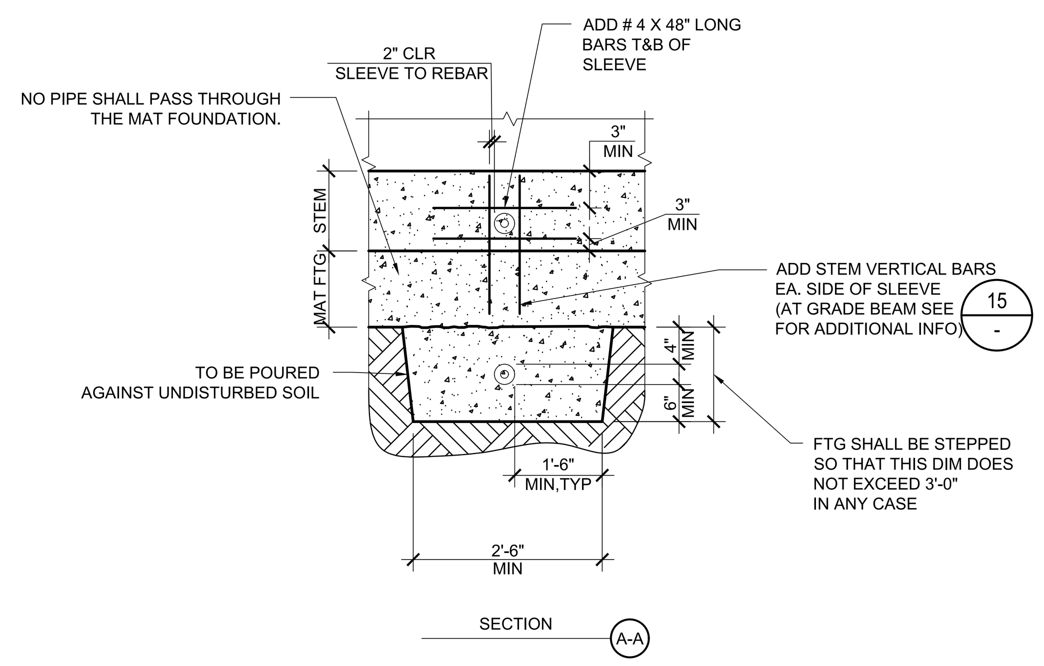
1 NOT USED
NTS

2 FOOTING POURED AGAINST EARTH
NTS

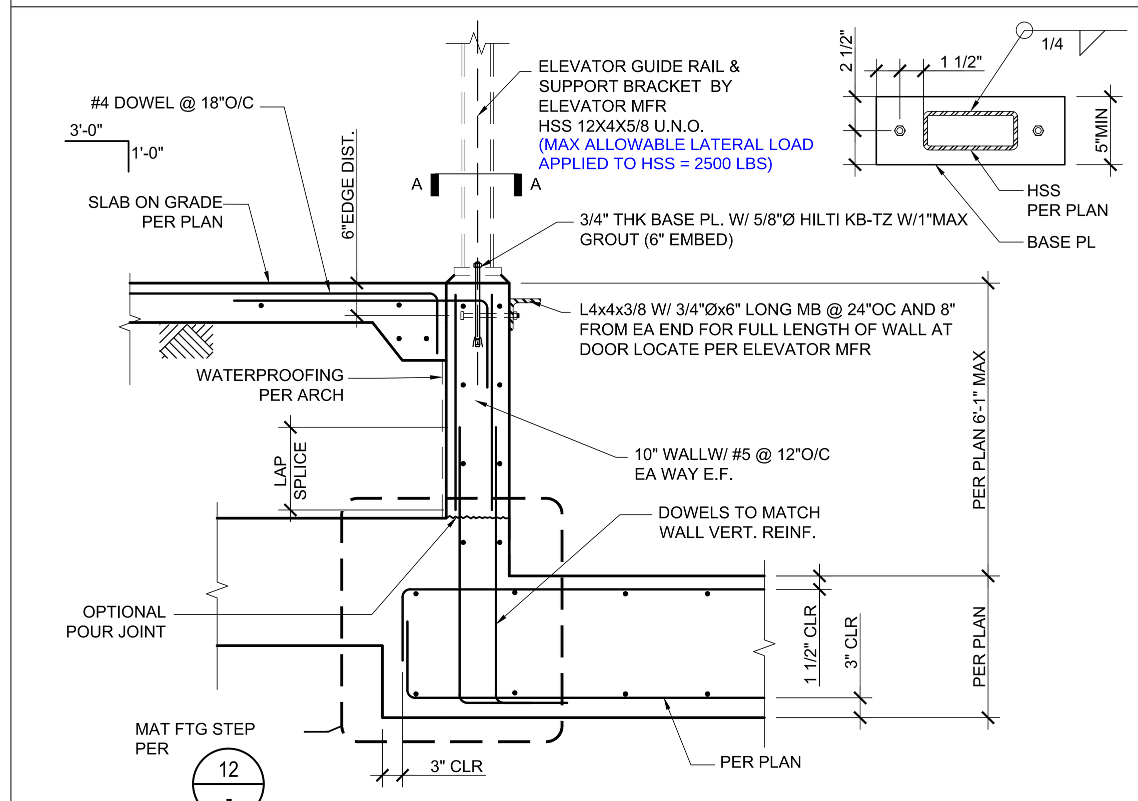
4 CONSTRUCTION JOINT AT FOOTING/GRADE BEAM
NTS



NOTE:
THE CONTRACTOR SHALL BE RESPONSIBLE FOR SHORING OR OTHERWISE MAINTAINING THE SIDES OF THE EXCAVATION FROM CAVE-INS UNTIL ALL BACKFILL IS COMPLETED PER SPECIFICATIONS AND GEOTECHNICAL REPORT.



NOTES:
1. CONTRACTOR SHALL COORDINATE ALL PIPE LOCATIONS WITH BUILDING FOUNDATION REQUIREMENTS.
2. IF REQUIREMENTS AS SHOWN CANNOT BE MET, STEP FOOTING PER TYPICAL 'STEPPED FOOTING' DETAIL.
3. REFERENCE CBC SECTION 1805A.4.7

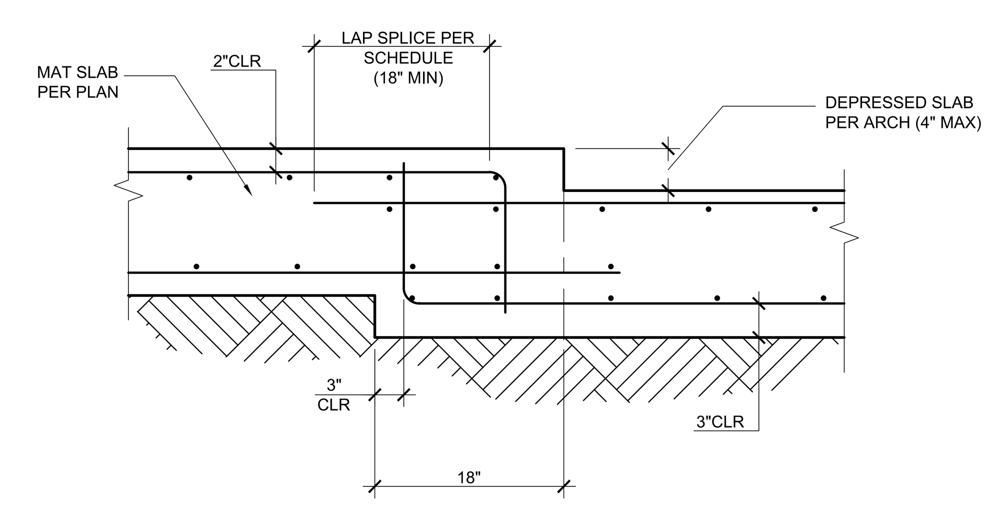


5 NOT USED
NTS

6 TYPICAL EXCAVATION PARALLEL TO FOOTING
NTS

7 PIPE TRENCH FOOTING DETAIL
NTS

8 ELEVATOR PIT DETAIL
NTS

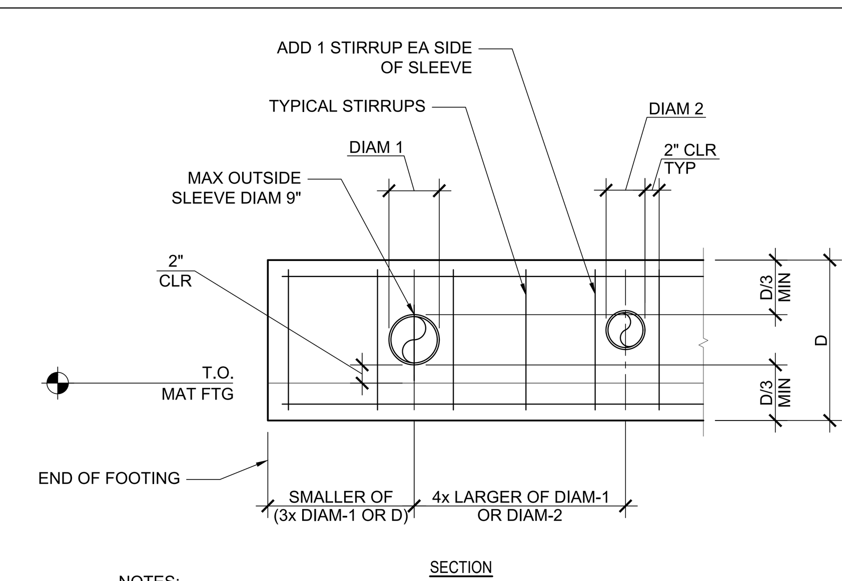


9 NOT USED
NTS

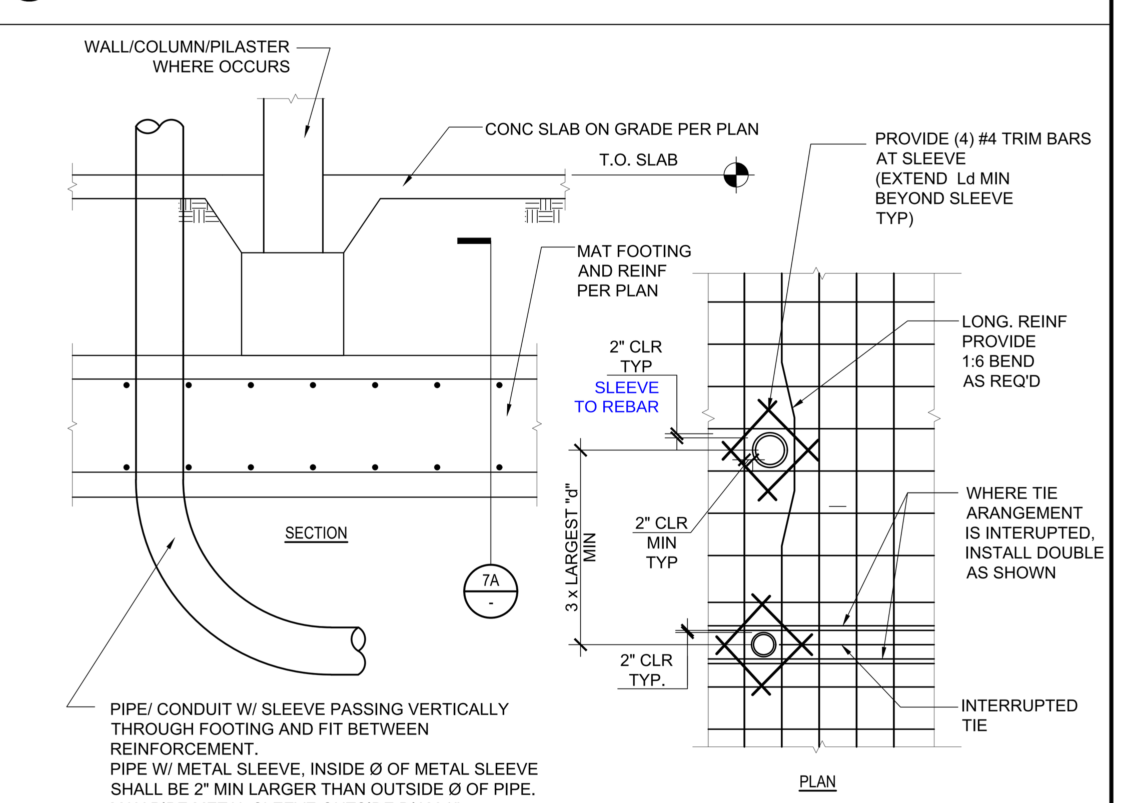
10 NOT USED
NTS

11 NOT USED
NTS

12 DETAIL
NTS



NOTES:
1. INSIDE Ø OF METAL SLEEVE SHALL BE 2" MIN LARGER THAN OUTSIDE Ø OF PIPE
2. PROVIDE MINIMUM 2" CLEAR BETWEEN SLEEVE AND REINFORCING.
3. SEE DETAIL 7 ON THIS SHEET FOR SLEEVE-TO-PIPE/CONDUIT CLEARANCE & INFO NOT NOTED
4. IF PIPE OR CONDUIT PENETRATION INTERRUPTS STIRRUPS, PROVIDE 2 ADDITIONAL SHEAR STIRRUPS FOR A TOTAL OF 4 SHEAR STIRRUPS ON EACH SIDE OF PENETRATION.



PIPE/ CONDUIT W/ SLEEVE PASSING VERTICALLY THROUGH FOOTING AND FIT BETWEEN REINFORCEMENT.
PIPE W/ METAL SLEEVE, INSIDE Ø OF METAL SLEEVE SHALL BE 2" MIN LARGER THAN OUTSIDE Ø OF PIPE. MAX PIPE METAL SLEEVE OUTSIDE DIAM 9".

SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION

13 NOT USED
NTS

14 NOT USED
NTS

15 TYPICAL PIPE OR CONDUIT PENETRATIONS THRU CONTINUOUS FOOTINGS / GRADE BEAM
NTS

16 PIPE/ CONDUIT SWEEP THRU FOOTING
NTS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-119686 INC:
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No. S4029
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STATE OF CALIFORNIA

consultant

COMPTON COLLEGE STUDENT SERVICES BLDG.

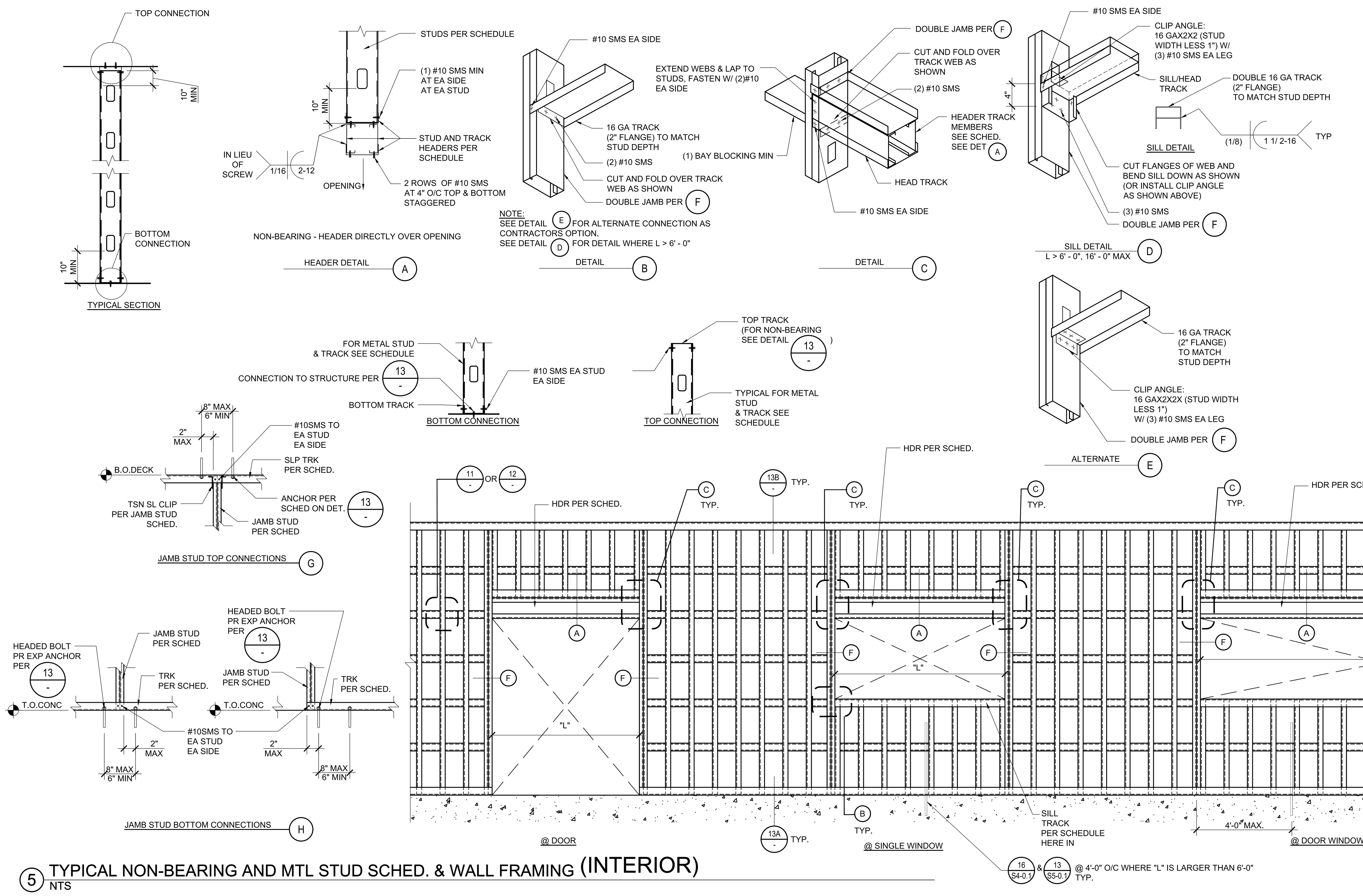
COMPTON COMMUNITY COLLEGE DISTRICT
1111 E. ARTESIA BLVD.
COMPTON, CA 90221

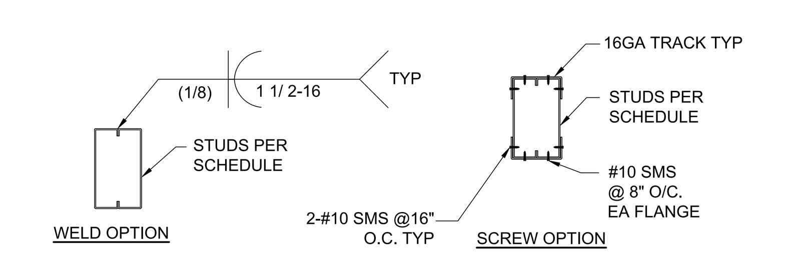
owner

tBP project number : 20987.00
file name:
drawn by: tBP checked by: T. HALL
date: 9.3.2019
Rev: date: description:

drawing title:
TYPICAL DETAILS

drawing no.:
S0-1.2





NOTE:
1. PROVIDE STUDS, TRACKS AND BRACING PER SCHEDULE BELOW:

METAL STUD TRACK SCHEDULE UNO ON PLAN REF: STEEL STUD MANUFACTURER'S ASSOCIATION (ESR-3064P)					
TRACK	NOMINAL STUD SIZE	SSMA PRODUCT IDENTIFICATION	MINIMUM PROPERTIES		
			Ix (in^4)	Sx (in^4)	Ma (in-k)
BOTTOM TRACK	6"x1 1/2"x16GA 4"x1 1/2"x16GA	600T150-54 400T150-54	2.400 1.025	0.609 0.489	18.24 11.19
TOP TRACK	6"x1 1/2"x16GA 4"x1 1/2"x16GA	600T150-54 400T150-54	2.400 1.025	0.609 0.489	18.24 11.19
CAPPING TRACK	6"x2"x16GA 4"x1 1/2"x16GA	600T200-54 400T150-54	2.641 1.025	0.717 0.489	21.48 11.19

JAMB STUD SCHEDULE		
MAX OPENING "L"	HT < 16'-0" (INTERIOR)	
	STUDS	CONN AT TOP TRACK
"L" ≤ 4'-0"	(2) 400S125- 43	SL400*
	(2) 600S125 - 33	SL600*
4' 0" < "L" ≤ 10' 0"	(2) 400S125 - 43	SL400*
	(2) 600S125 - 43	SL600*

NOTES:
1. JAMB STUDS DEPTHS SHALL MATCH TYPICAL WALL STUD DEPTHS.
2. * DENOTES TSN (THE STEEL NETWORK) CLIPS. (ICC-ESR-2049)
3. FOR JAMB TO TRACK TOP CONNECTION SEE G, AND FOR BOTTOM CONNECTION SEE H

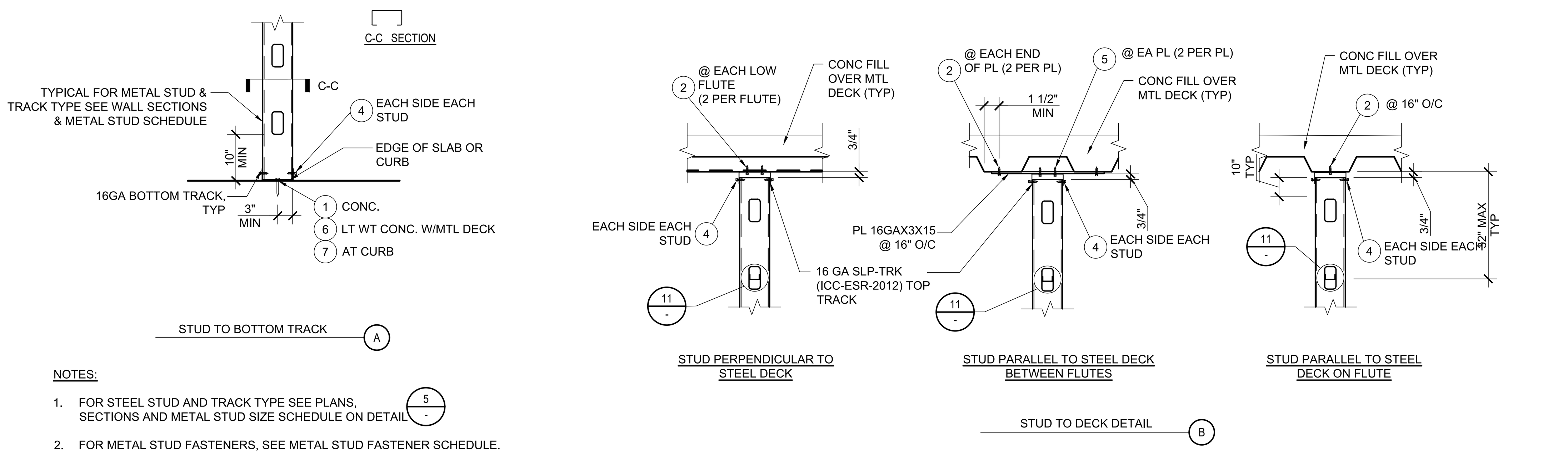
TYP. JAMB SHCEDULE F

INTERIOR METAL STUD SIZE @ 16"O/C ,MAX HEIGHT =15ft (FOR CONDITIONS , SEE OPD - 0001 - 13, SHEET ST2.00)				
WALL WIDTH	CONDITION "A"	CONDITION "B"	CONDITION "C"	CONDITION "D"
4" WALL	400S137 - 43	400S137 - 54	400S250 - 97	400S250 - 97
6" WALL	600S137 - 33	600S137 - 43	600S137 - 54	600S137 - 54

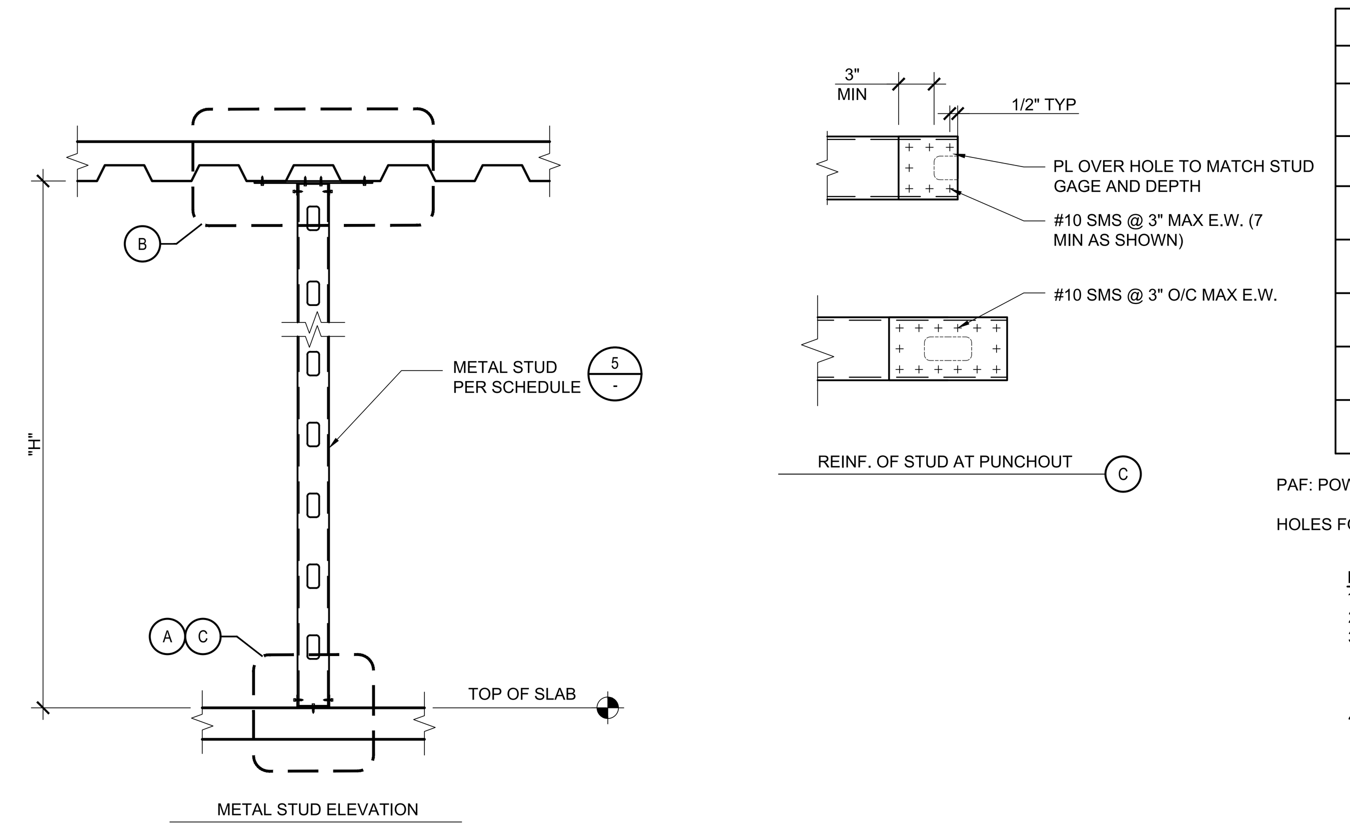
HEADER BEAM SCHEDULE PER 5A (INTERIOR NON-BEARING PARTITIONS) — FOR SILLS , SEE DETAILS 5B ,5D, 5E, ON THIS SHEET	
MAX OPENING "L"	STUD AND TRACK SIZE
"L" < 4'-0"	(2) 400T137 - 54 W/ (2) 400S137 - 54 (2) 600T137 - 54 W/ (2) 600S137 - 54
4' 0" < "L" < 10' 0"	(2) 400T137 - 54 W/ (2) 400S137 - 54 (2) 600T137 - 54 W/ (2) 600S137 - 54

2. ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY OR ON ANGLE (SUCH AS BRACING) TO SQUARELY FIT AGAINST ABUTTING MEMBERS. MEMBERS SHALL BE HELD FIRMLY POSITION UNTIL PROPERLY FASTENED.
3. STUD AND TRACKS SHALL BE ATTACHED BY WELDING AND SHEET METAL SCREWS AS NOTED ON THE DRAWINGS.
4. MANUFACTURER PROVIDED PUNCH-OUTS MAY BE LOCATED ALONG THE CENTERLINE OF THE WEBS OF THE FRAMING MEMBERS. PUNCH-OUTS SHALL HAVE A MINIMUM CENTER-TO-CENTER SPACING OF 24". PUNCH-OUT SHALL HAVE A MAXIMUM WIDTH OF HALF THE MEMBER DEPTH OR 2 1/2", WHICHEVER IS LESS, AND MAXIMUM LENGTH OF 4 1/2".
5. SPLICES IN STUDS AND BRACES SHALL NOT PERMITTED.
6. ALL FRAMING SHALL BE COORDINATED WITH GLAZING MANUFACTURERS, MECHANICAL, ELECTRICAL, PLUMBING AND OTHER TRADES.
7. PROVIDE 0.08" THICK x 1.1" SQUARE OR 1.425" ROUND WASHERS FOR ALL POWDER ACTUATED FASTENERS.
8. LOCATE PUNCHOUTS 10" CLEAR OF CONNECTIONS. IF PUNCH IS CLOSER THAN 10" TO CONNECTION, SEE DETAIL 13C
9. FOR TOP TRACK, LEDGER AND SILL SPLICE SEE DETAIL 6/0-1.4A

5 TYPICAL NON-BEARING AND MTL STUD SCHED. & WALL FRAMING (INTERIOR)
NTS



NOTES:
1. FOR STEEL STUD AND TRACK TYPE SEE PLANS, SECTIONS AND METAL STUD SIZE SCHEDULE ON DETAIL 5
2. FOR METAL STUD FASTENERS, SEE METAL STUD FASTENER SCHEDULE.
3. ALL POWER DRIVEN FASTENERS TO HAVE A MINIMUM PENETRATION OF 1 1/4".



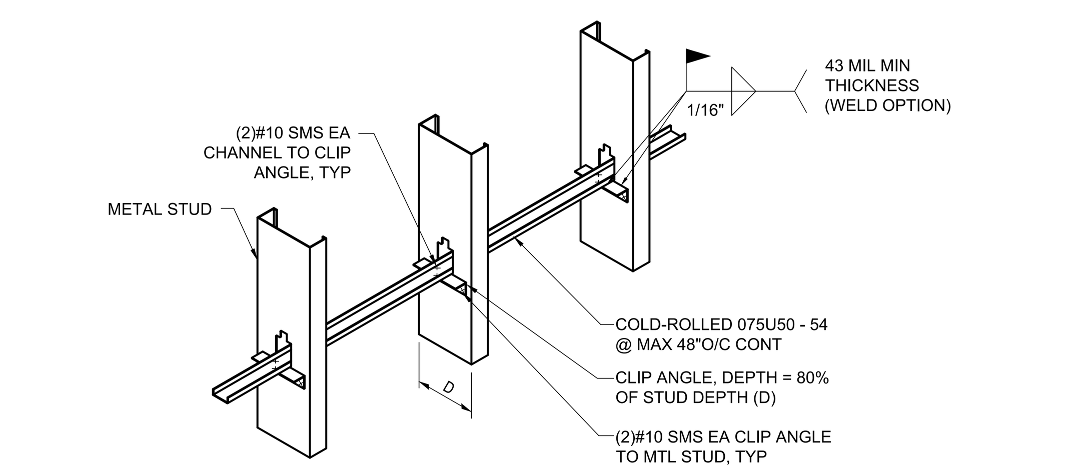
METAL STUD FASTENER SCHEDULE		
MARK	FASTENERS SIZE & SPACING	REMARKS
1	HILTI 0.157" DIA. X-U SHOT PIN @ 32" O/C W. 1 1/2 " MIN EMBED	ESR-2269
2	HILTI 0.157" DIA. X-U SHOT PIN @COMPOSITE DECK	ESR-2269
3	NOT USED	-
4	#10 SHEET METAL SCREW	ESR-1408
5	#12 SHEET METAL SCREW	ESR-1408
6	HILTI KH-EZ 1/4" X 1.18" EMBED. SCREW ANCHOR @ 24" O/C	ESR-3027
7	5/8" X 12" HEADED BOLT @ 32"O/C W/ STD WASHER TYP. (MIN.7"EMBED)	-

PAF: POWER ACTUATED FASTENER (LOW VELOCITY) OR POWER DRIVEN FASTENER 5

HOLES FOR A.B. SHALL BE 1/16" LARGER THAN BOLT SIZE.

NOTES:
1. MAXIMUM STUD HEIGHT "H" FOR STUDS @ 16" O/C PER SCHEDULE ON DETAIL 5
2. SEE ARCHITECTURAL FOR OTHER CONDITIONS.
3. LIMIT PER (2016 CBC TABLE 1604A.3)
L/360 - W/ PLASTER AND STUCCO FINISHES.
L/240 - W/ OTHER BRITTLE FINISHES.
L/120 - W/ FLEXIBLE FINISHES.
4. STUDS CARRYING EQUIPMENT OR CASEWORK WEIGHING 40 LBS OR MORE SHALL BE 16GA MIN.

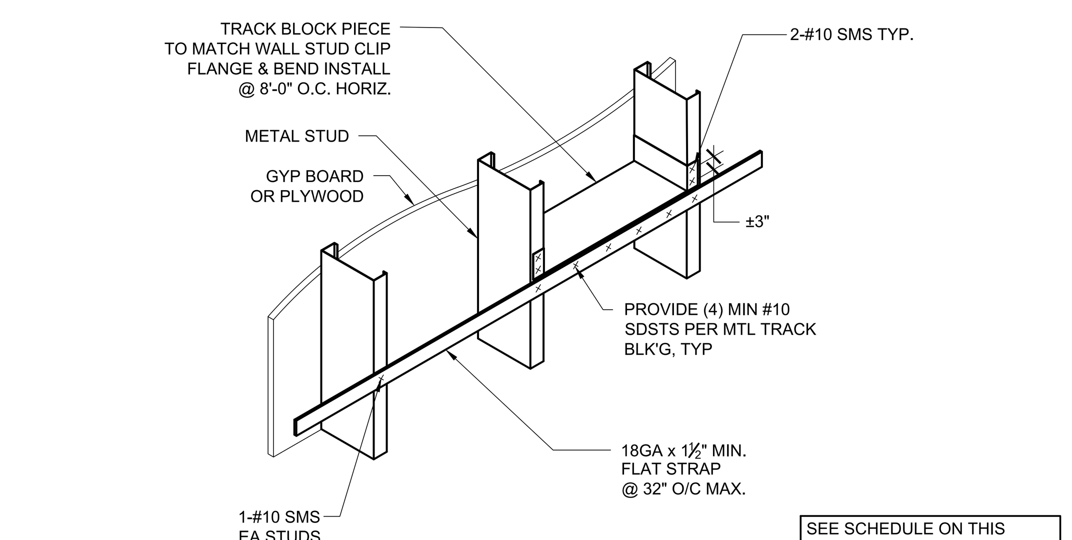
13 STEEL STUD FLANGE BRACING DETAIL (INTERIOR ONLY)
NTS



SEE SCHEDULE ON THIS SHEET FOR METAL STUD & TRACK SIZES

WHERE GYP BOARD OR PLYWOOD OCCURS ON ONE SIDE SEE DET. 12

11 BRIDGING CHANNEL W/ CLIP ANGLE (WITHOUT PLYWOOD/GYP BOARD)
NTS



GYPSUM BOARD REQUIREMENTS INFO:
MINIMUM 5/8" THK TYPE X GYPSUM BOARD
GYPSUM BOARD SHALL BE FULL HEIGHT (TOP TRACK TO BOTTOM TRACK)
ATTACHMENT SHALL BE WITH #6 TYPE S DRYWALL SCREWS SPACED AT 16" O/C MAX
SEE ICC ESR 3064P FOR ADDITIONAL INFORMATION/REQUIREMENTS.

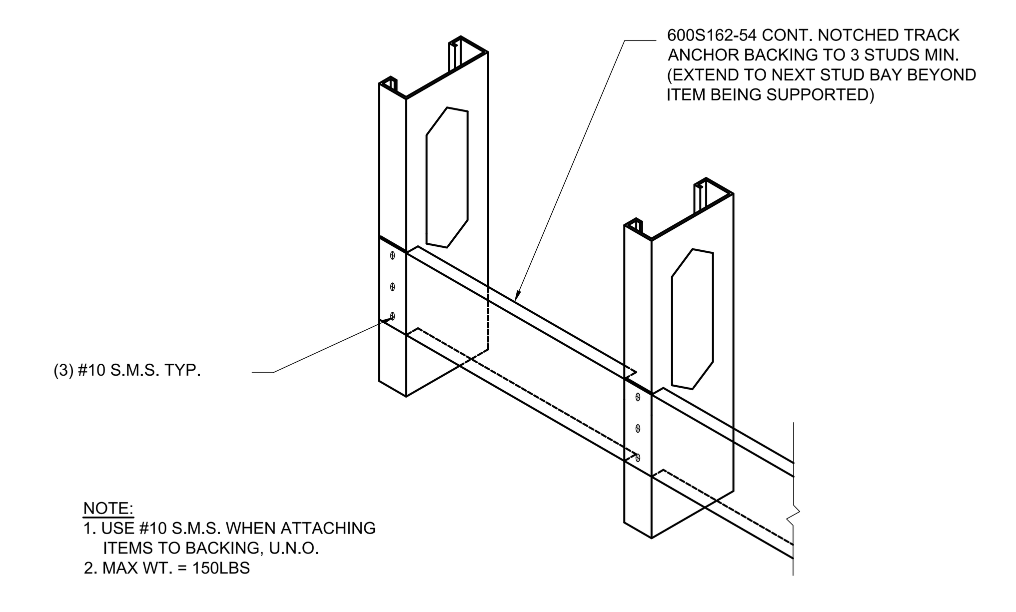
WHERE GYPSUM BOARD IS ATTACHED AS DESCRIBED ABOVE ON BOTH SIDES OF WALL, STRAPS/BRIDGING MAY BE OMITTED.

SEE SCHEDULE ON THIS SHEET FOR METAL STUD & TRACK SIZES

WHERE GYP BOARD OR PLYWOOD DOES NOT OCCUR SEE DET. 11

12 SINGLE FLAT STRAP BRIDGING W/ BLOCKING (WITH PLYWOOD/GYP BOARD ON ONE SIDE)
NTS

15 NOT USED
NTS



NOTE:
1. USE #10 S.M.S. WHEN ATTACHING ITEMS TO BACKING, U.N.O.
2. MAX WT. = 150LBS

16 BACKING DETAIL
NTS

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consultant

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COMPTON COMMUNITY COLLEGE DISTRICT
1111 E. ARTESIA BLVD.
COMPTON, CA 90221

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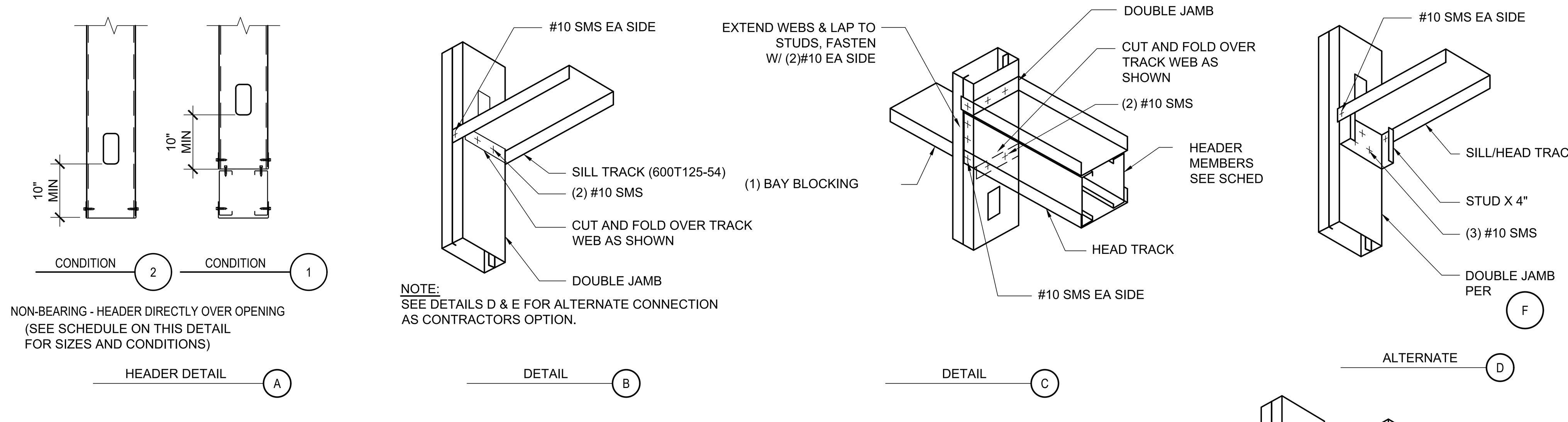
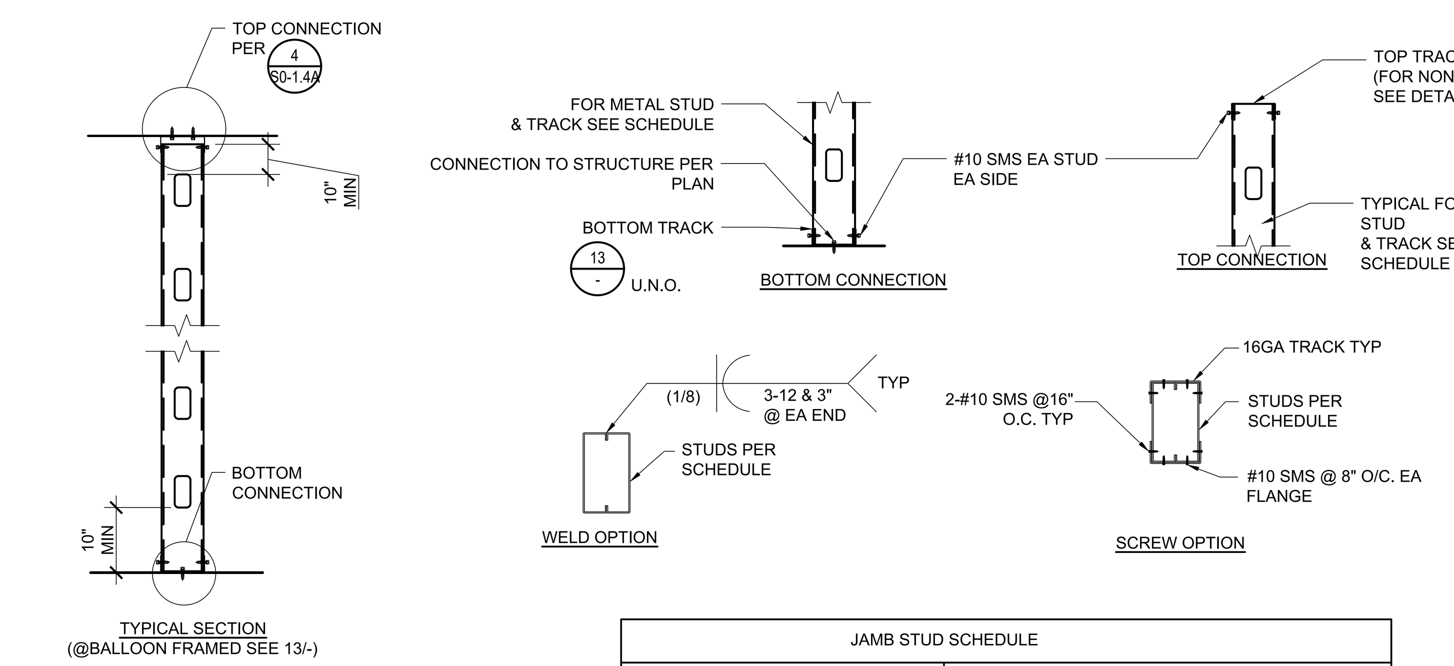
S0-1.3

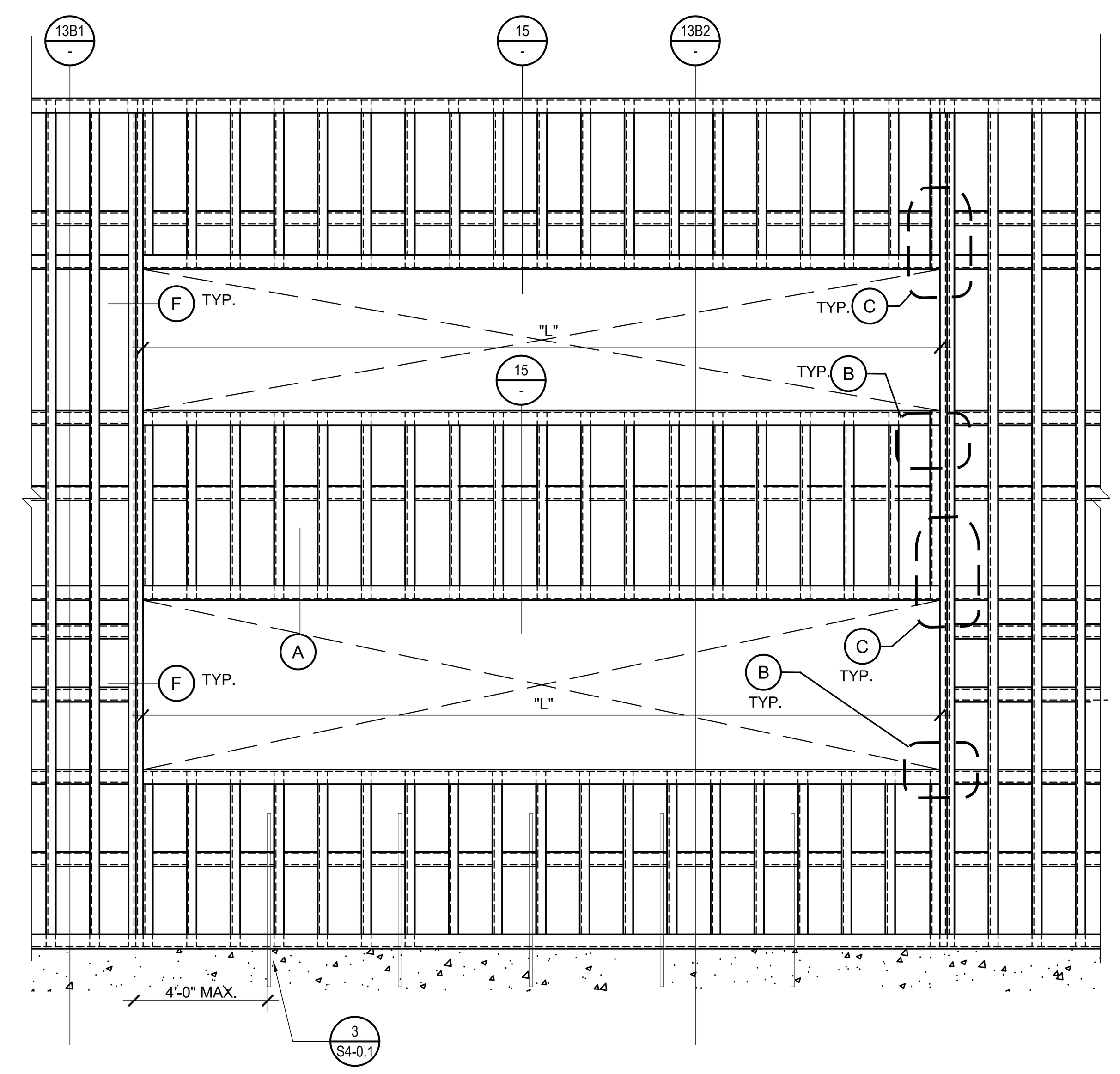




JAMB STUD SCHEDULE		
MAX OPENING "L"	HT ≤ 16'-0"	
	STUDS	CONN AT TOP TRACK
L ≤ 6'-0"	(2) 600S162-54	SL600*
6'-0" ≤ L ≤ 10'-0"	(2) 600S162-68	SL600*

NOTES:
1. JAMB STUDS DEPTHS SHALL MATCH TYPICAL WALL STUD DEPTHS.
2. * DENOTES TSN (THE STEEL NETWORK) CLIPS. (ICC-ESR-2049)

F TYP. JAMB SHCEDULE



TYP. WALL ELEVATION

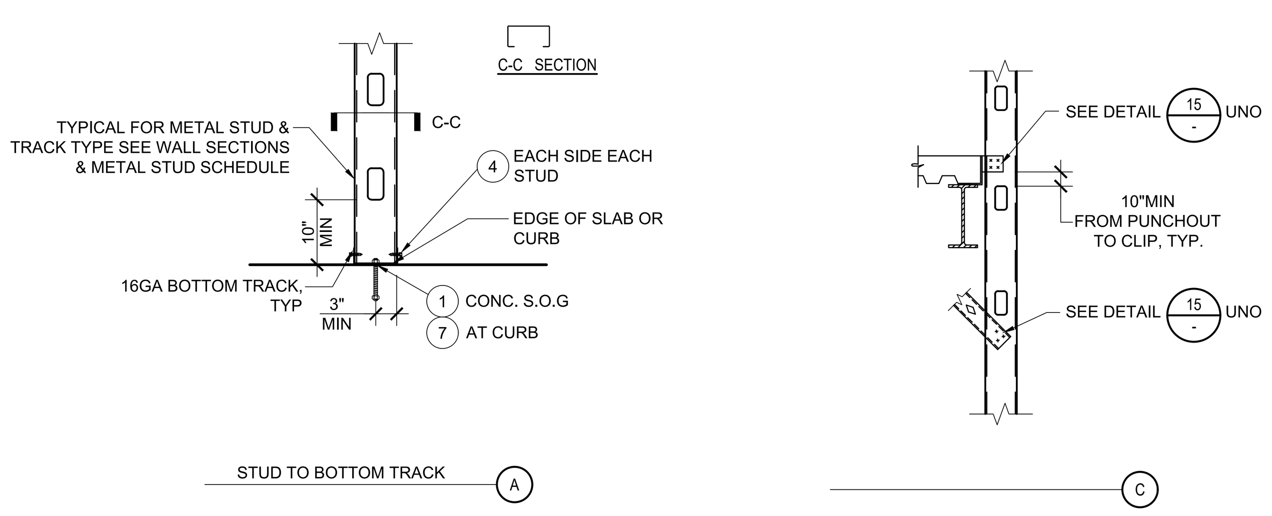
NOTE:
1. PROVIDE STUDS PER S5-## SHEET SERIES. TRACKS AND BRACING PER SCHEDULE BELOW:

METAL STUD SCHEDULE UNO ON PLAN REF: STEEL STUD MANUFACTURER'S ASSOCIATION (ESR-3064P)					
TRACK	NOMINAL STUD SIZE	SSMA PRODUCT IDENTIFICATION	MINIMUM PROPERTIES		
			Ix (in^4)	Sx (in^4)	Ma (in-k)
BOTTOM TRACK	6"x1 1/2"x16GA	600T150-54	2.400	0.609	18.24
TOP TRACK	6"x1 1/2"x16GA	600T150-54	2.400	0.609	18.24
CAPPING TRACK	6"x2"x16GA	600T200-54	2.641	0.717	21.48

HEADER BEAM SCHEDULE UNO ON PLAN (EXTERIOR CURTAIN WALLS)		MAX WIND = 43PSF
SPAN "L"	CONDITION	LINTEL SIZE
≤ 6' 0"	DET. A - 1	(2) 600T125-43 W/ (2) 600S162-43
> 6' 0" - ≤ 10' 0"	DET. A - 1	(2) 600T125-54 W/ (2) 600S162-54

2. ALL STUDS AND TRACKS SHALL CONFORM TO ASTM A1003.
   a. 18GA AND LIGHTER: MINIMUM YIELD POINT OF 33 KSI
   b. 16GA AND HAVIER: MINIMUM YIELD POINT OF 50 KSI.
   c. ALL STUDS AND TRACKS SHALL BE MANUFACTURED BY CURRENT MEMBERS OF THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) LISTED IN ICC REPORT NO. ESR-3064P. ALL STUDS AND TRACKS SHALL COMPLY WITH ICC REPORT NO. ESR-3064P.
3. ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY OR ON ANGLE (SUCH AS BRACING) TO SQUARELY FIT AGAINST ABUTTING MEMBERS. MEMBERS SHALL BE HELD FIRMLY POSITION UNTIL PROPERLY FASTENED.
4. STUD AND TRACKS SHALL BE ATTACHED BY WELDING AND SHEET METAL SCREWS AS NOTED ON THE DRAWINGS.
5. MANUFACTURER PROVIDED PUNCH-OUTS MAY BE LOCATED ALONG THE CENTERLINE OF THE WEBS OF THE FRAMING MEMBERS. PUNCH-OUTS SHALL HAVE A MINIMUM CENTER-TO-CENTER SPACING OF 24". PUNCH-OUT SHALL HAVE A MAXIMUM WIDTH OF HALF THE MEMBER DEPTH OR 2 1/2", WHICHEVER IS LESS, AND MAXIMUM LENGTH OF 4 1/2".
6. SPLICES IN STUDS AND BRACES SHALL NOT PERMITTED.
7. ALL FRAMING SHALL BE COORDINATED WITH GLAZING MANUFACTURERS, MECHANICAL, ELECTRICAL, PLUMBING AND OTHER TRADES.
8. NOT USED.
9. LOCATE PUNCHOUTS 10" CLEAR OF CONNECTIONS.

5 TYPICAL NON-BEARING AND MTL STUD SCHED. & WALL FRAMING (EXTERIOR)
NTS

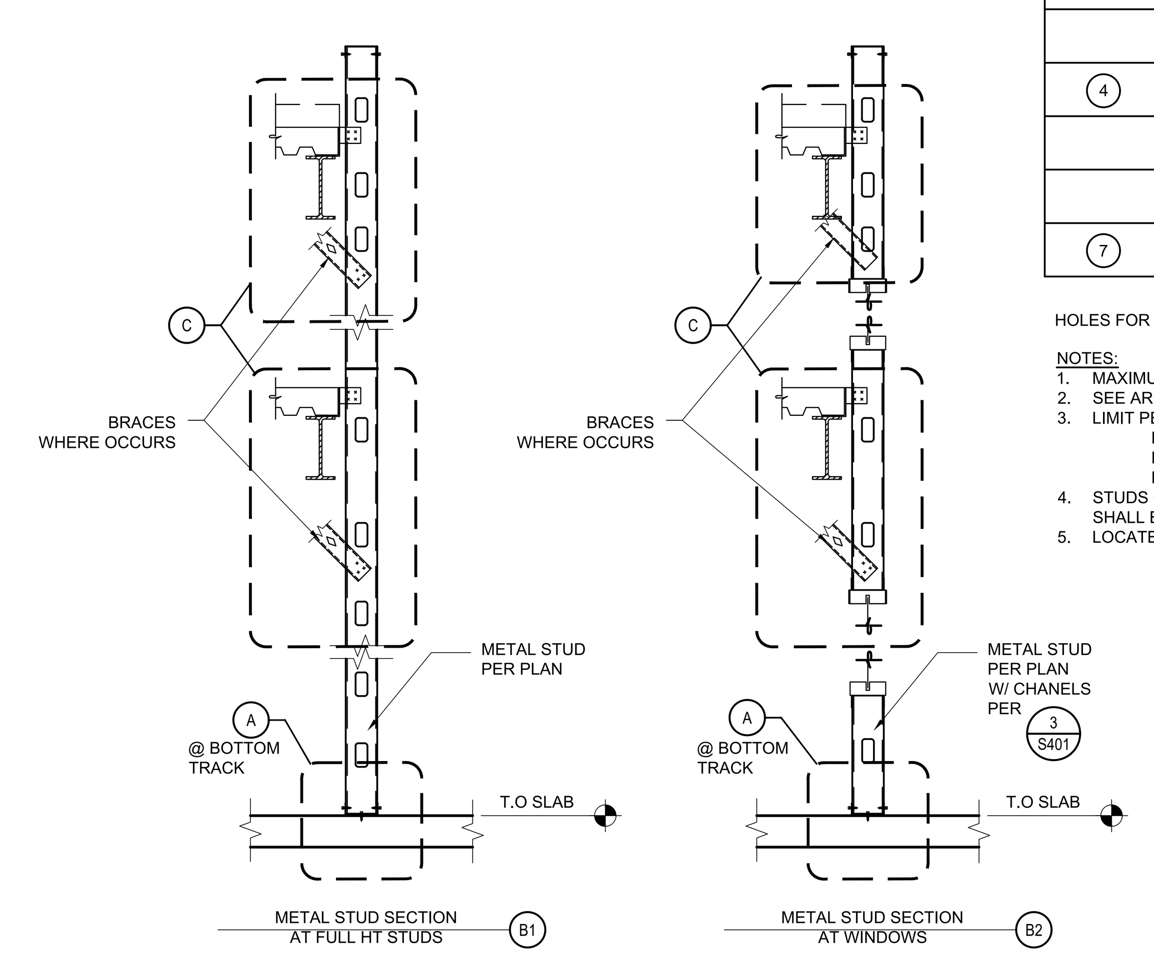


NOTES:
1. FOR STEEL STUD AND TRACK TYPE SEE PLANS, SECTIONS AND METAL STUD SIZE SCHEDULE ON DETAIL 5
2. FOR METAL STUD FASTENERS, SEE METAL STUD FASTENER SCHEDULE.

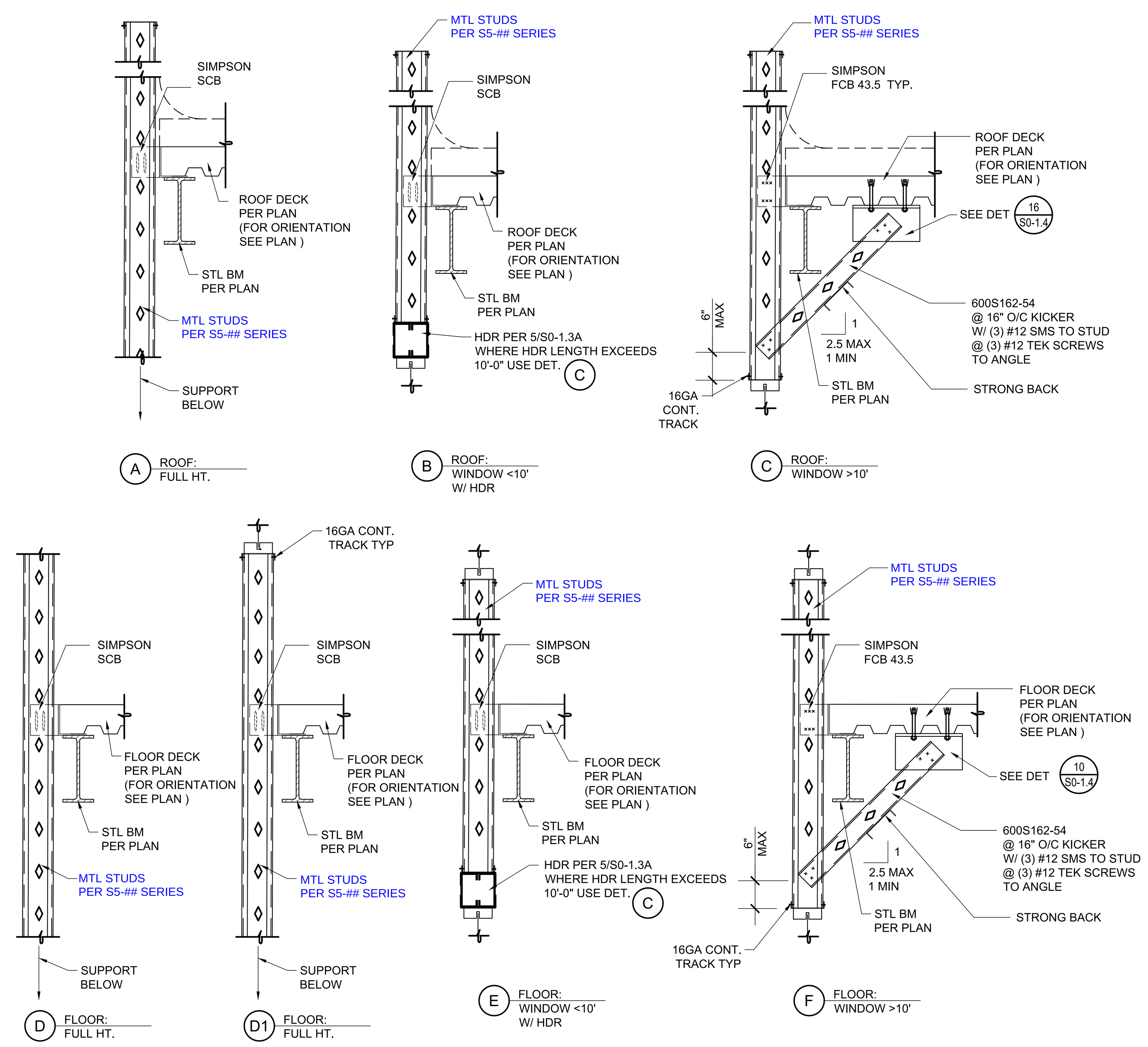
METAL STUD FASTENER SCHEDULE		
MARK	FASTENERS SIZE & SPACING	REMARKS
1	5/8" X 12" HEADED BOLT @ 32"O/C W/ STD WASHER TYP. (MIN.7"EMBED)	-
	NOT USED.	
	NOT USED.	
4	#10 SHEET METAL SCREW	ESR-1408
	NOT USED.	
	NOT USED.	
7	5/8" X 12" HEADED BOLT @ 32"O/C W/ STD WASHER TYP. (MIN.7"EMBED)	-

HOLES FOR A.B. SHALL BE 1/16" LARGER THAN BOLT SIZE.

NOTES:
1. MAXIMUM STUD HEIGHT "H" FOR STUDS @ 16" O/C PER SCHEDULE 5
2. SEE ARCHITECTURAL FOR OTHER CONDITIONS.
3. LIMIT PER (2016 CBC TABLE 1604A.3)
   L/360 - W/ PLASTER AND STUCCO FINISHES.
   L/240 - W/ OTHER BRITTLE FINISHES.
   L/120 - W/ FLEXIBLE FINISHES.
4. STUDS CARRYING EQUIPMENT OR CASEWORK WEIGHING 40 LBS OR MORE SHALL BE 16GA MIN.
5. LOCATE PUNCHOUTS 10" CLEAR OF CONNECTIONS.



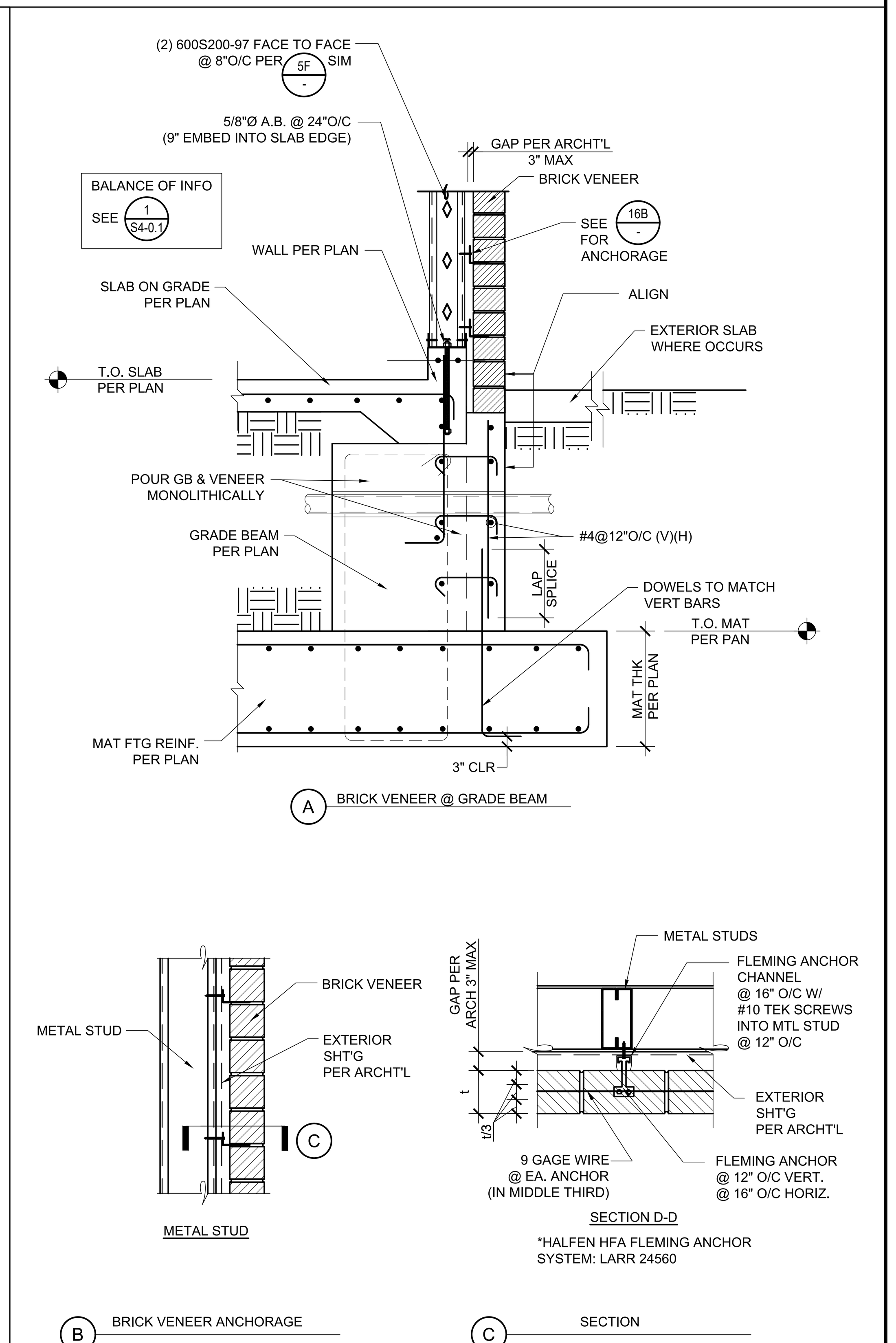
13 STEEL STUD FLANGE BRACING DETAIL (EXTERIOR ONLY)
NTS



SIMPSON SCB	W/ (2) #14 SHOULDERED SCREWS MIN INTO STUD & (4) #12 TEK SCREW INTO 1/4" THK CLOSURE PL (IAPMO #238)
SIMPSON FCB 43.5	W/ (6) #12 SMS INTO STUD & (4) #12 TEK SCREW INTO 1/4" THK CLOSURE PL (IAPMO #238)

STRONG BACK	600S162- 54 (ICC ESR-3064P) W/ (2) #10 SMS TO EA BRACE IF BRACE EXCEEDS 9'-0" LONG

15 TYPICAL EXT. WALL CONNECTION TO BLDG
NTS



16 DETAIL
NTS

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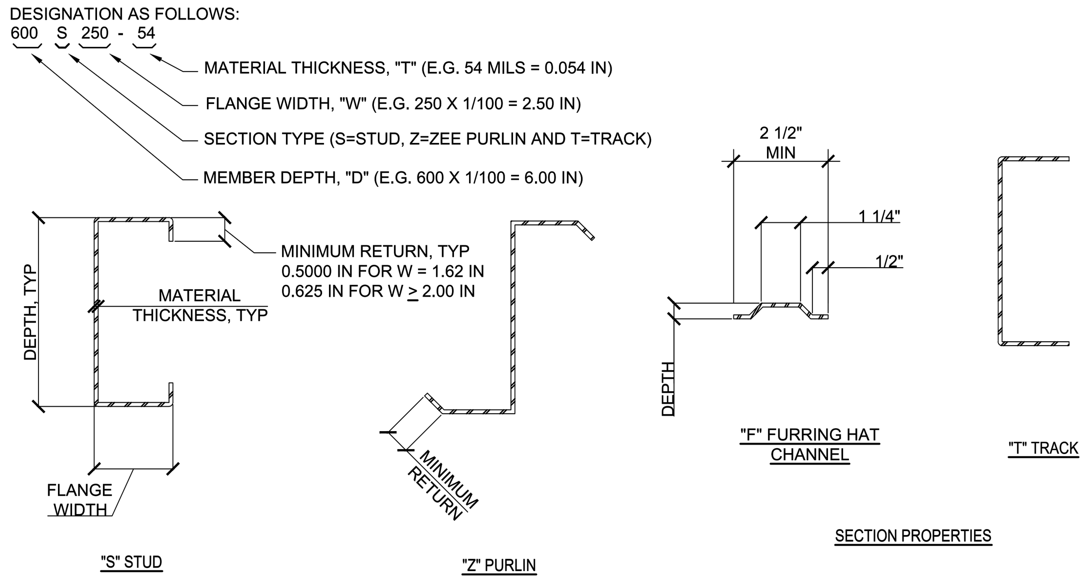
TYPICAL DETAILS

drawing no.:
S0-1.3A

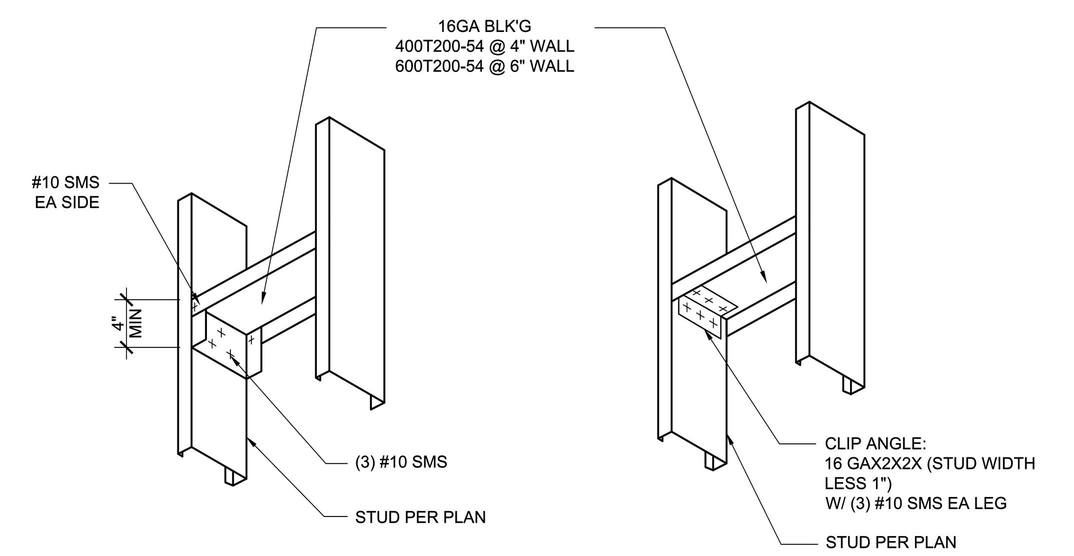
SCHEDULE (SSMA ER-4943P)						
SPECIFIED FOR THIS PROJECT	MEMBER DESIGNATION	DESIGN THICKNESS IN	REFERENCE GAUGE NO.	SECTION PROPERTIES		
				AREA IN^2	Ixx IN^4	Iyy IN^4
*	250S137-54	0.0566	16	0.316	0.318	0.080
*	400S162-54	0.0566	16	0.433	1.098	0.159
*	400S200-54	0.0566	16	0.500	1.292	0.287
*	400S200-68	0.0713	14	0.622	1.581	0.349
*	400S250-54	0.0566	16	0.566	1.509	0.515
*	400S250-68	0.0713	14	0.696	1.834	0.630
*	600S200-33	0.0346	20	0.379	2.075	0.209
*	600S250-68	0.0713	14	0.836	4.686	0.688
*	800S250-68	0.0713	14	0.976	9.209	0.752
*	400T150-33	0.0346	20	0.242	0.622	0.051
*	400T200-54	0.0566	16	0.452	1.269	0.182
*	400T200-68	0.0713	14	0.569	1.617	0.227
*	600T150-33	0.0346	20	.0311	1.590	0.057
*	600T200-97	0.1017	12	1.015	5.773	0.354
*	800T200-97	0.1017	12	1.218	11.212	0.379
*	400Z250-54	0.0566	16	0.566	1.544	1.079
*	400Z250-68	0.0713	14	0.696	1.819	1.288
*	600Z250-54	0.0566	16	0.680	3.910	1.079
*	600Z250-68	0.0713	14	0.836	4.662	1.288
*	800Z250-54	0.0566	16	0.794	7.628	1.079
*	800Z250-68	0.0713	14	0.976	9.176	1.289
*	1000Z250-68	0.0713	14	1.116	15.641	1.289
*	087F125-27	0.0283	22	0.104	0.013	-

NOTES:

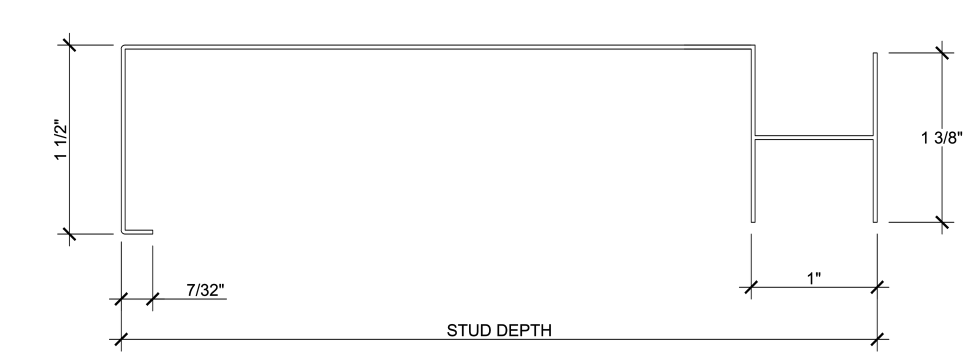
1. ALL STEEL 54 MILS AND THICKER (16 GA AND THICKER) SHALL BE MINIMUM YIELD STRENGTH FY = 50 KSI, COMPLYING WITH ASTM A653 SS GRADE 50 OR ASTM A1011 SS GRADE 50. STEEL 43 MILS AND THINNER, (18 GA AND THINNER) SHALL BE MINIMUM YIELD STRENGTH FY = 33 KSI, COMPLYING WITH ASTM A653 SS GRADE 33 OR ASTM A1011 SS GRADE 33, GALVANIZED COATING SHALL COMPLY WITH ASTM A924.
2. STUD AND TRACK DESIGNATIONS PER STEEL STUD MANUFACTURER'S ASSOCIATION (SSMA), ICC ESR-3064P.
3. PROVIDE SECTIONS HAVING PROPERTIES MEETING OR EXCEEDING ABOVE TABULATED GROSS SECTION PROPERTIES, ICC ER-5912P SECTIONS ACCEPTABLE.



5 TYPICAL COLD-FORMED STEEL MEMBER PROPERTIES
NTS



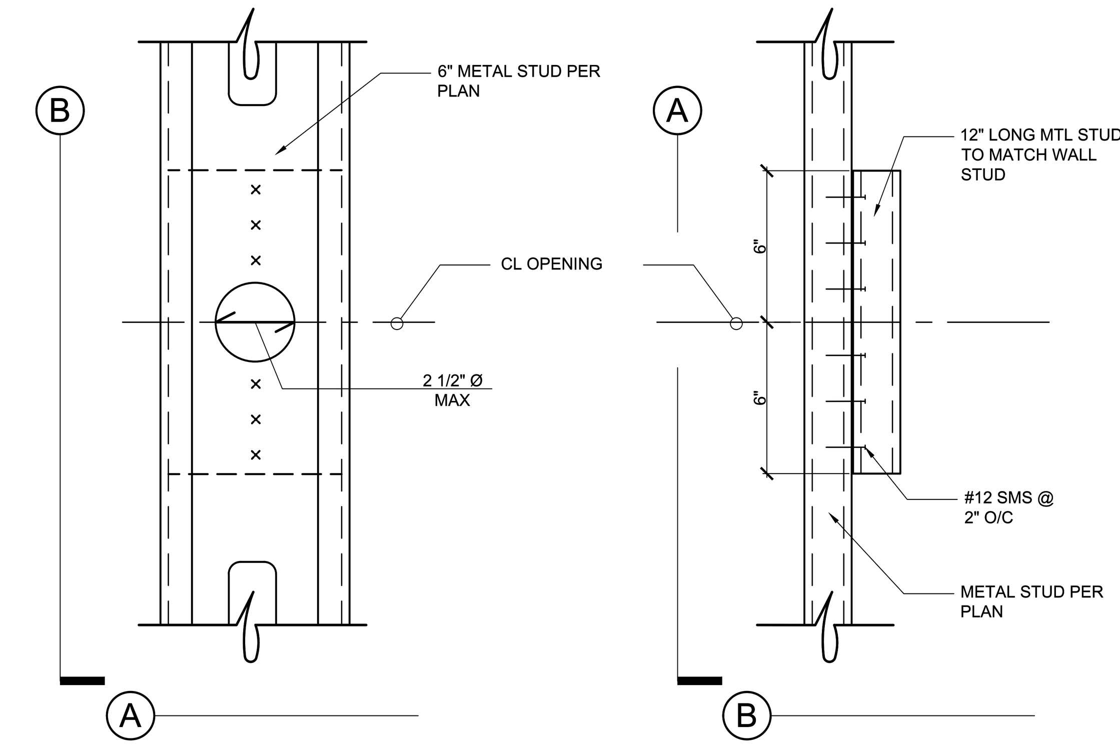
6 NON-STRUCTURAL BLOCKING
NTS



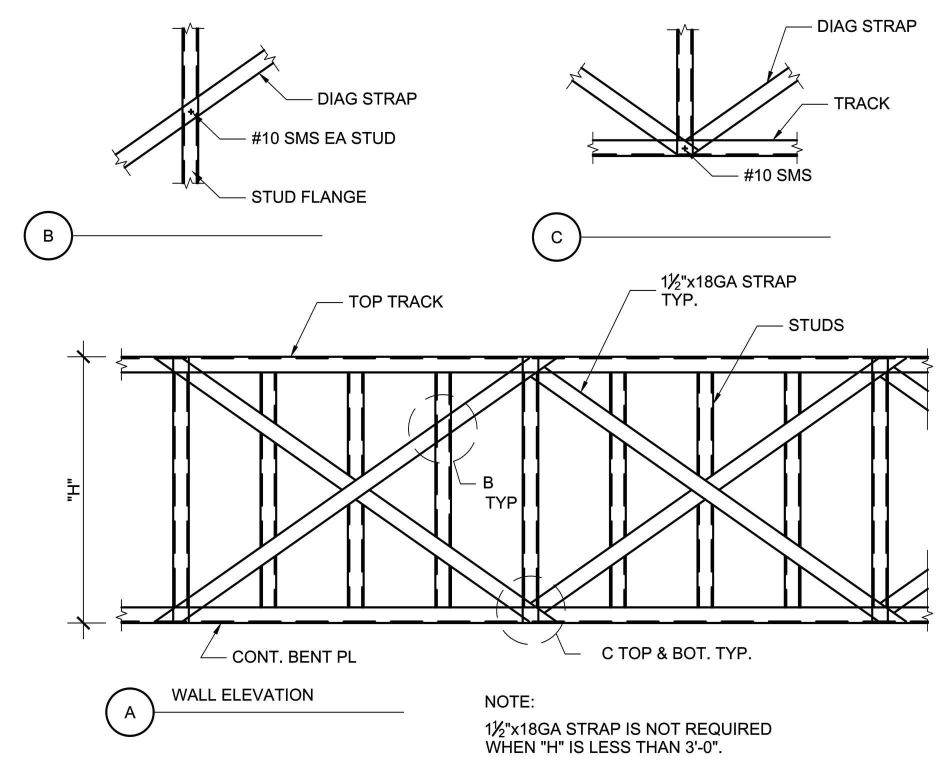
6" STEEL C-H STUD: DESIGN THICKNESS = 0.0359 in
AREA = 0.6364 in^2
$Ix = 3.4\ in^4$
$Sx = 1.094\ in^3$

4" STEEL C-H STUD: DESIGN THICKNESS = 0.0359 in
AREA = 0.3433 in^2
$Ix = 0.730\ in^4$
$Sx = 0.318\ in^3$

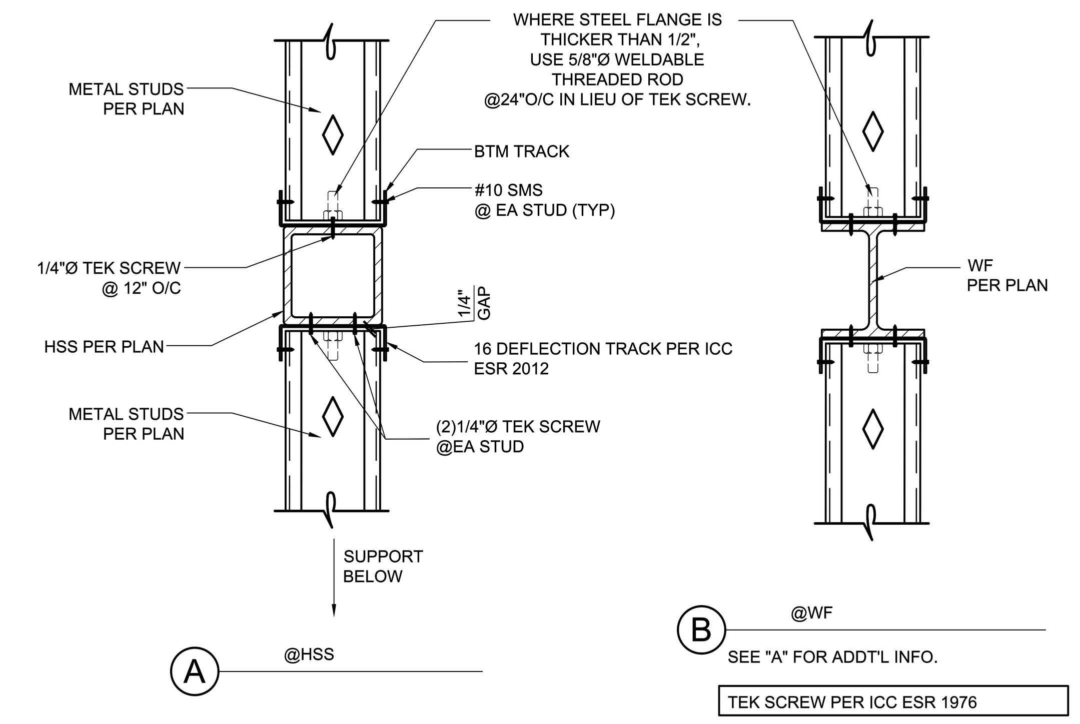
3 COLD FORMED STEEL STUD AER-09038
NTS



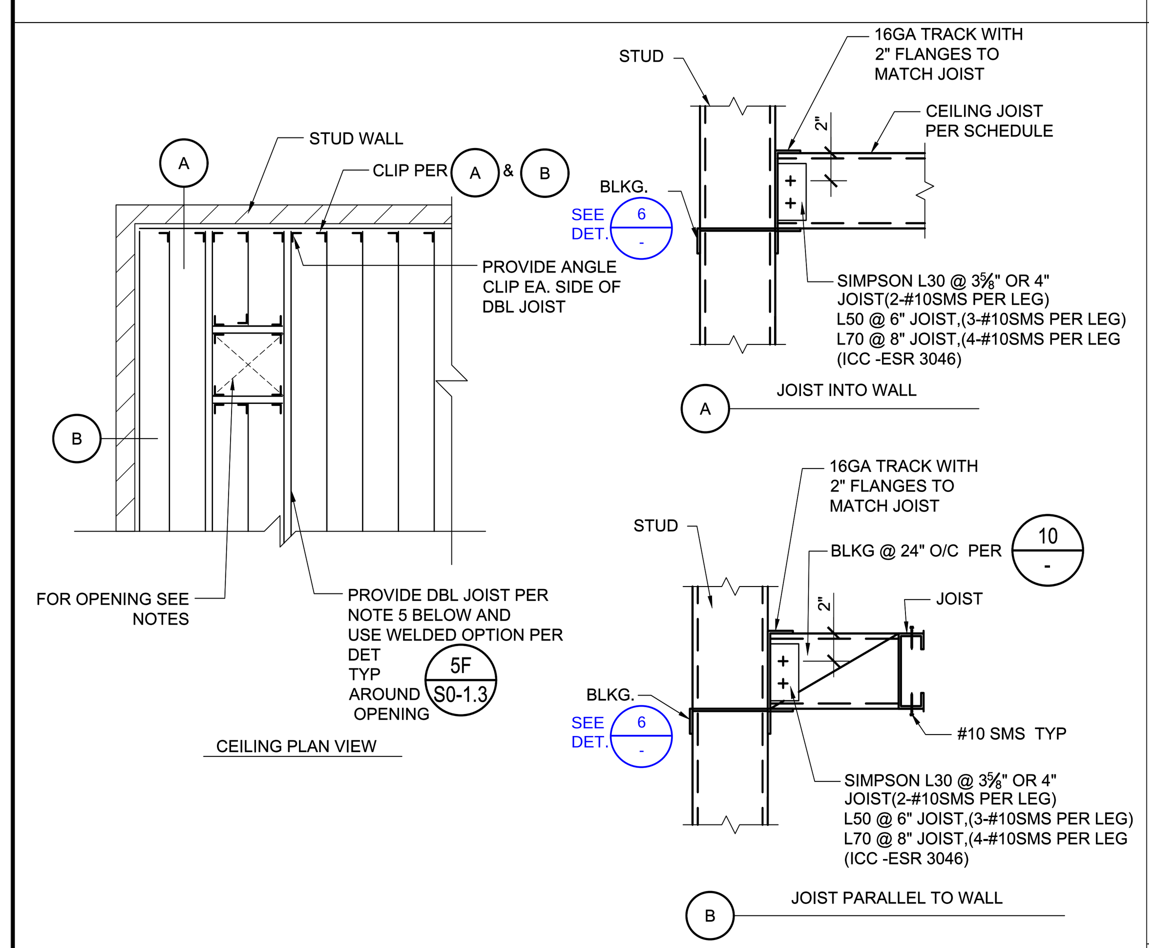
4 REINFORCING OF OPENING IN METAL STUD FOR PLUMBING
NTS



7 IN-PLANE BRACING
NTS



8 METAL STUD TO HSS BEAM CONNECTION (SIM @WF)
NTS



INTERIOR METAL CEILING JOIST SCHEDULE					
NOMINAL SIZE	SSMA PRODUCT IDENTIFICATION	Ixx(IN^4)	Sxx(IN^3)	SPACING (IN)	MAXIMUM SPAN (L1) SEE DET 14/-
3⅝"x20GA	362S162-33	0.551	0.304	16	8'-6"
4"x18GA	400S162-43	0.892	0.446	16	9'-6"
6"x18GA	600S162-43	2.316	0.772	16	11'-0"
8"x18GA	800S162-43	4.633	1.158	16	12'-0"

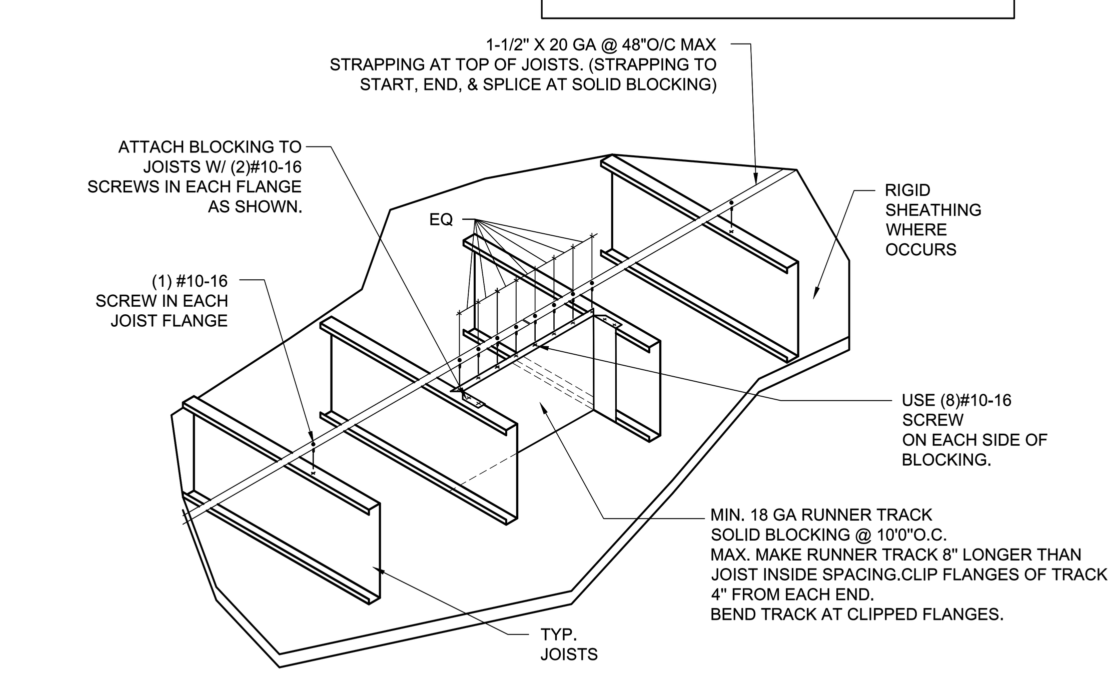
NOTES:

1. JOIST AND TRACK DESIGNATIONS ARE BASED ON STEEL STUD MANUFACTURER'S ASSOCIATION(ICC ER-3064P).
2. DESIGN LOADS:
DEAD LOAD = 20 PSF
3. SEE TYP. CEILING JOIST FRAMING DETAIL 14/-
4. PROVIDE IN-PLANE AND OUT-OF-PLANE BRACING PER 11/-
5. WHERE JOIST IS CUT, PROVIDE DOUBLE JOIST TO ADJ. CEILING JOIST NEXT TO CUT JOIST (DO NOT CUT MORE THAN ONE JOIST).
6. SEE DETAIL 10/- FOR BRACING REQUIREMENTS.

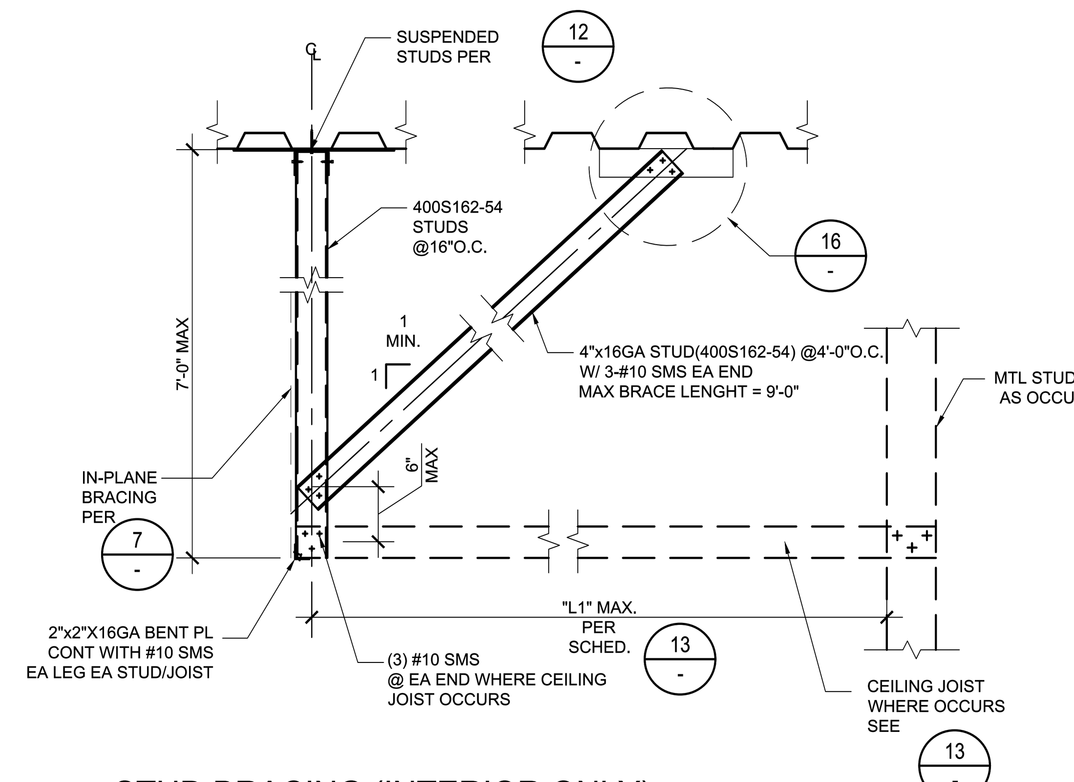
13 METAL CEILING JOIST SCHEDULE (INTERIOR ONLY)
NTS

BLOCKING NOTE:
PLACE SOLID BLOCKING AT ENDS OF FLOOR SYSTEM, ADJACENT TO ALL OPENINGS, AND AT 10'-0"O.C. MAX.

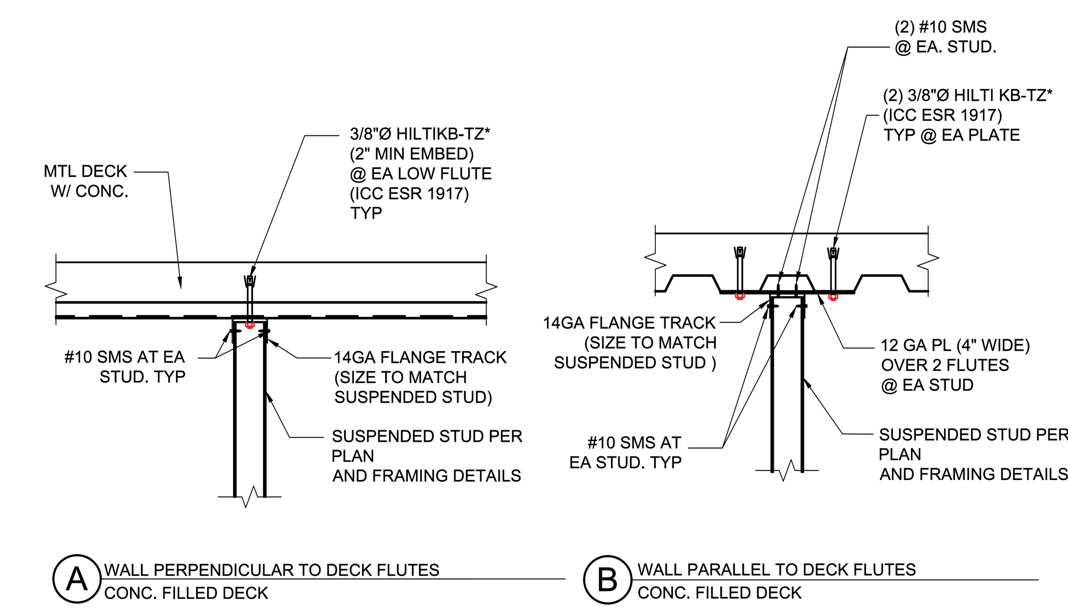
STRAP NOTE:
TOP STRAP NOT REQ'D, IF CONTINUOUSLY ATTACHED RIGID SHEATHING IS USED. TEMPORARY BRACING OF TOP FLANGE DURING CONSTRUCTION MAY BE REQ'D.



10 CEILING JOISTS FLANGE BRACING
NTS



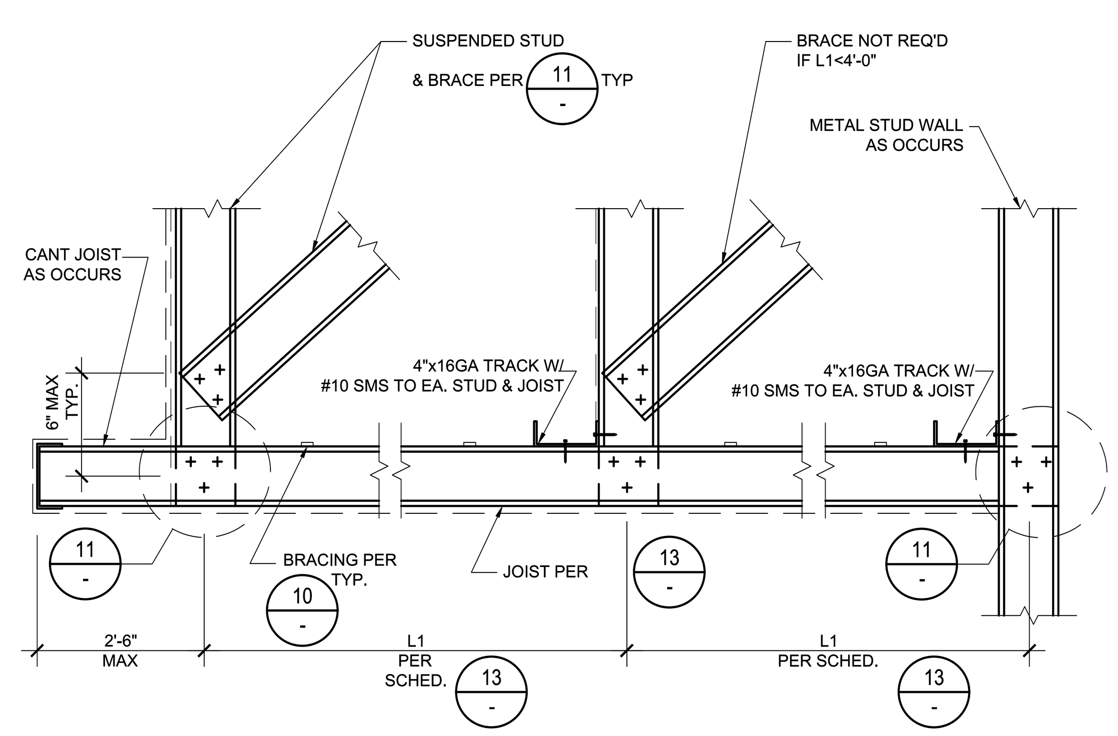
11 STUD BRACING (INTERIOR ONLY)
NTS



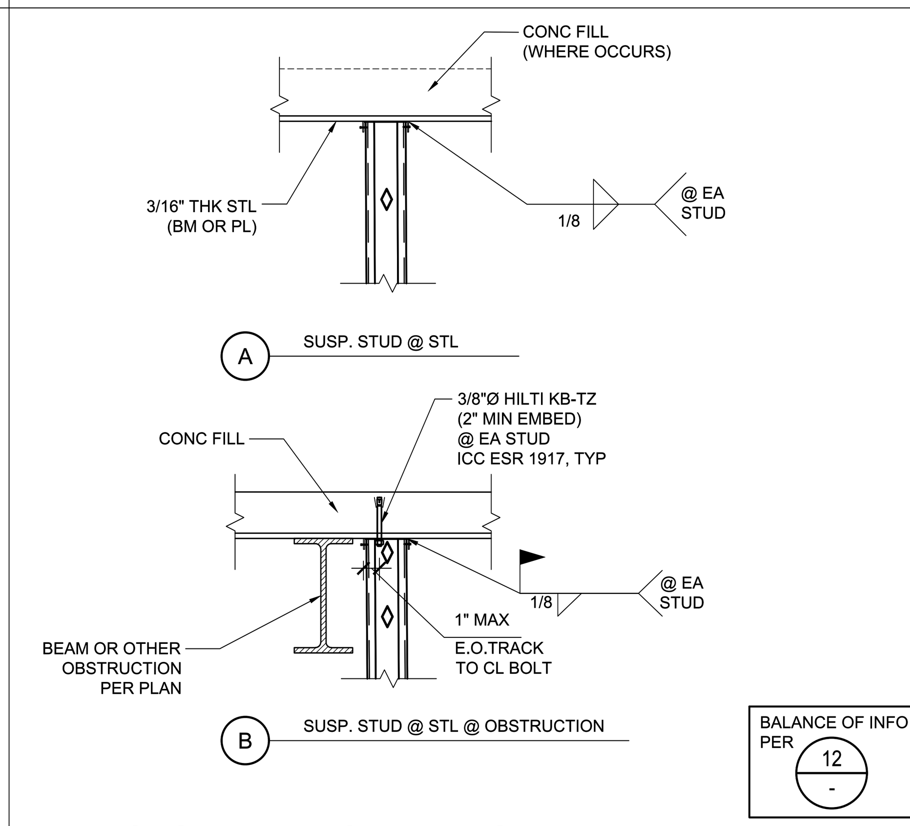
* AT EXTERIOR USE WALL SUPPORT 5/8"Ø HILTI KB-TZ W/ 3 1/2" EMBED (ICC ESR 1917)

AT CONNECTION TO STEEL SEE DETAIL 15/-

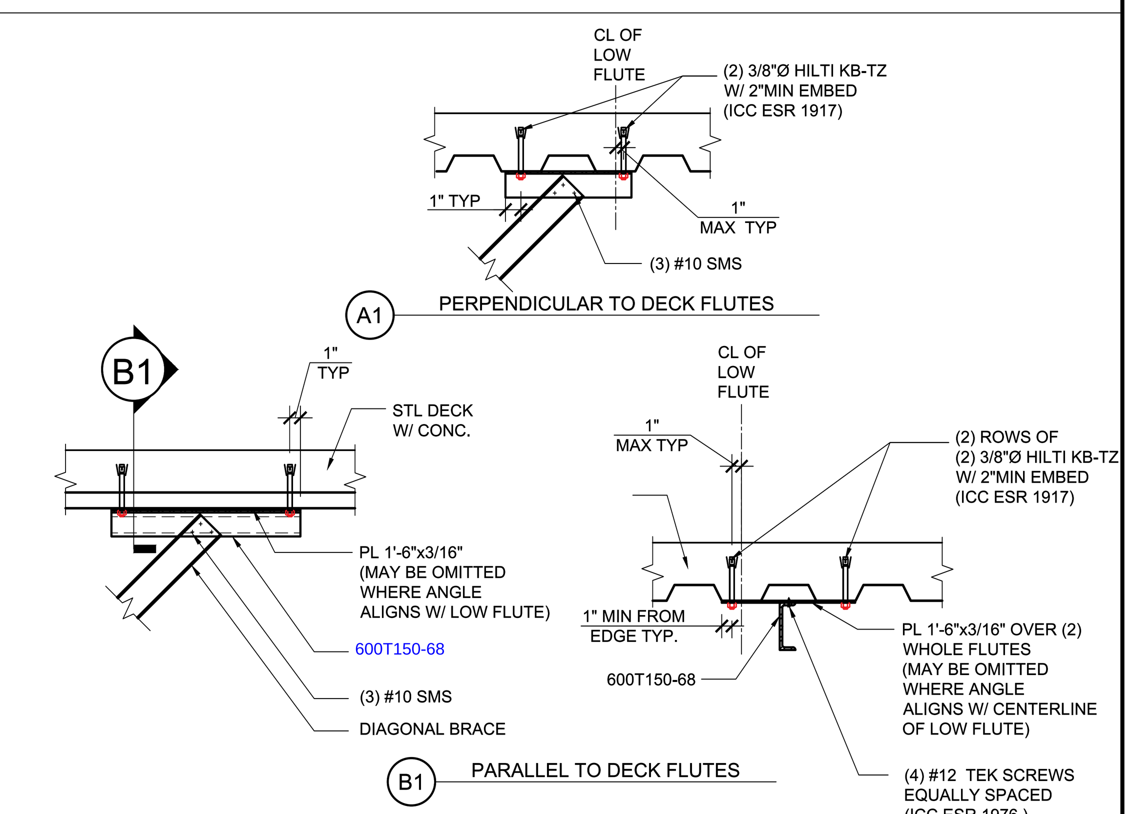
12 SUSPENDED STUD TO METAL DECK DETAIL
NTS



14 INTERIOR CEILING FRAMING
NTS



15 SUSPENDED STUD AT STEEL
NTS



16 WALL BRACE
NTS

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Fax. 949.679.9370
Project No.: D322

REGISTERED PROFESSIONAL ENGINEER No. S4029 Exp. 9/30/20 STRUCTURAL STATE OF CALIFORNIA

consultant

COMPTON COLLEGE STUDENT SERVICES BLDG.

COMPTON COMMUNITY COLLEGE DISTRICT
1111 E. ARTESIA BLVD.
COMPTON, CA 90221

owner

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file name:
drawn by: tBP checked by: T. HALL
date: 9.3.2019
Rev: date: description:

drawing title:
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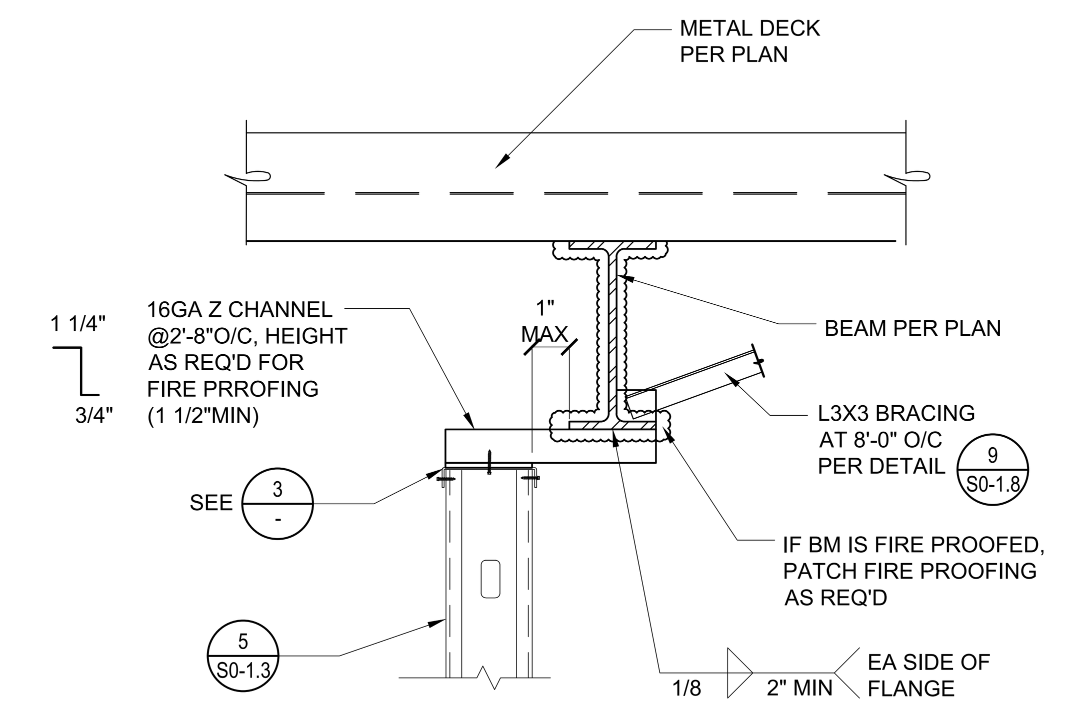
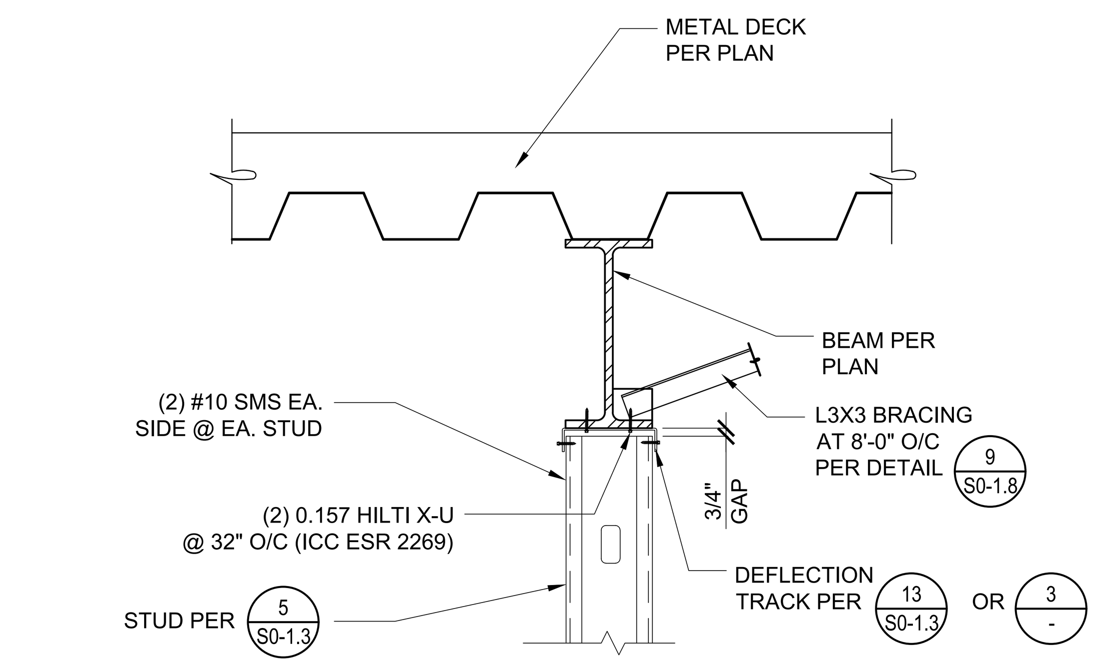
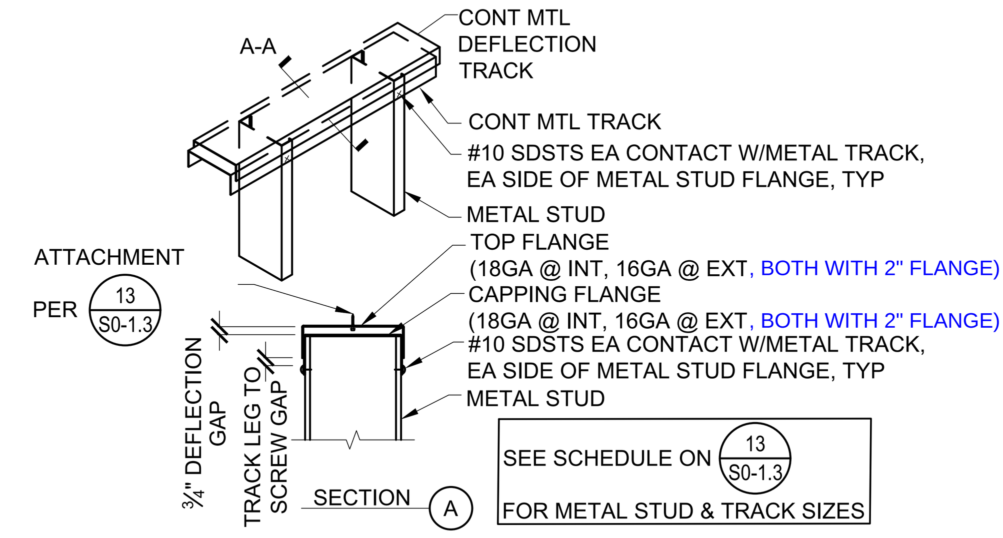
S0-1.4



1 TYPICAL WALL BRACE NEAR BEAM (INTERIOR ONLY)
NTS

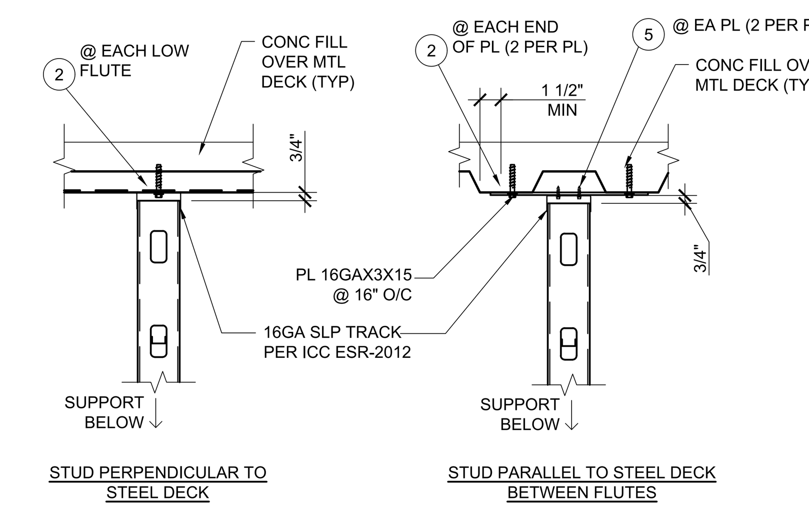


2 TYP TOP TRACK AT WALL UNDER BEAM
NTS

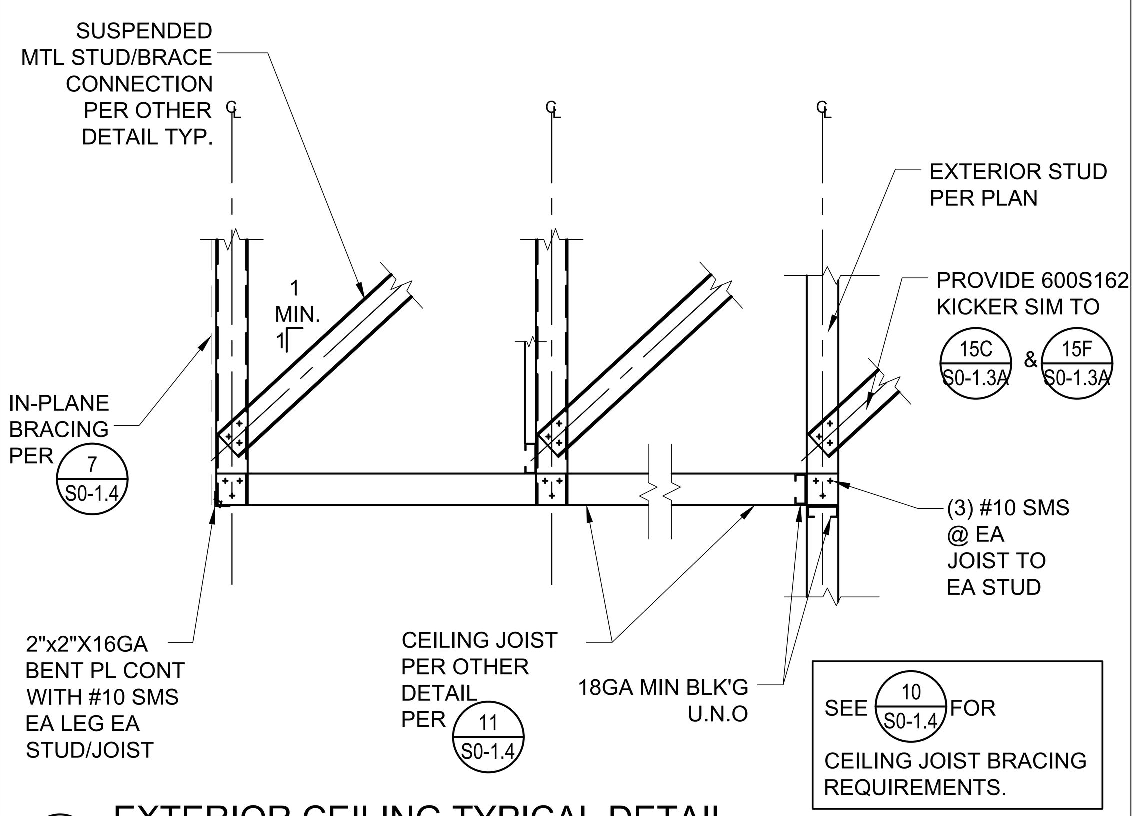


3 DEFLECTION TRACK ASSEMBLY DOUBLE DEFLECTION TRACK
NTS

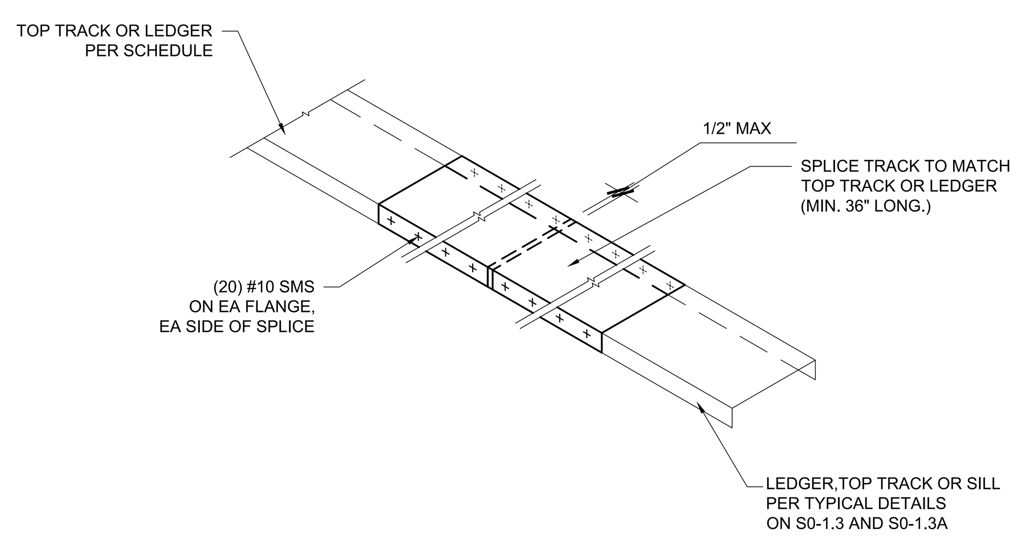
METAL STUD FASTENER SCHEDULE		
MARK	FASTENERS SIZE & SPACING	REMARKS
2	HILTI KH-EZ 3/8"X2 1/2"EMBED. @COMPOSITE DECK	ESR-3027
5	#12 SHEET METAL SCREW	ESR-1408



4 STUD TO DECK
NTS



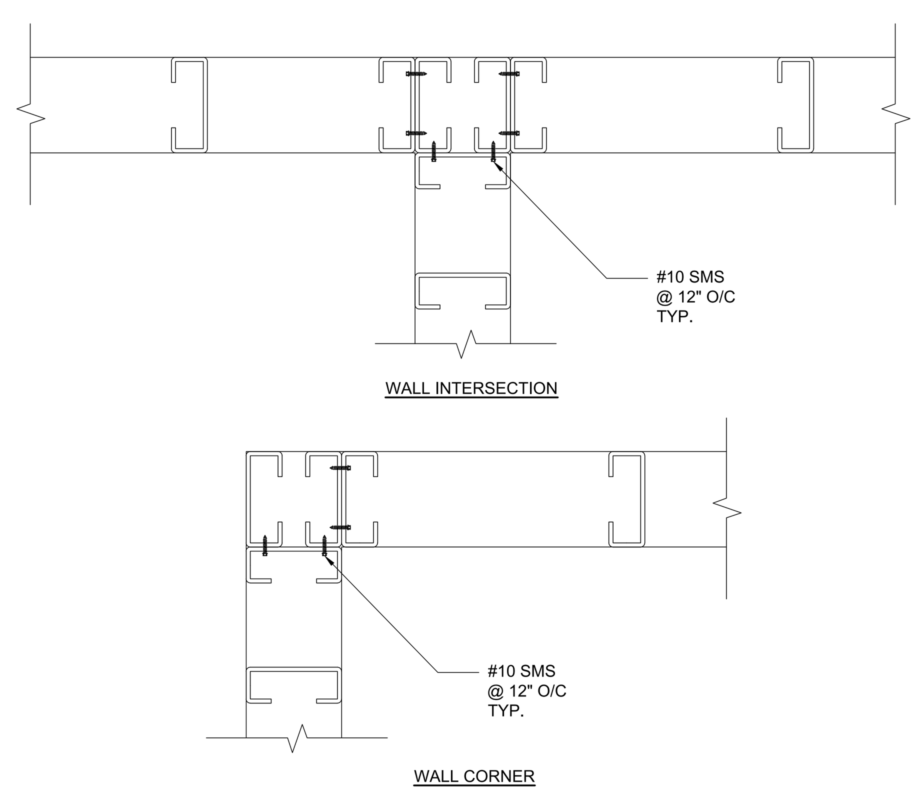
5 EXTERIOR CEILING TYPICAL DETAIL
NTS



6 TOP TRACK, LEDGER & SILL SPLICE DETAIL
NTS

7 NOT USED
NTS

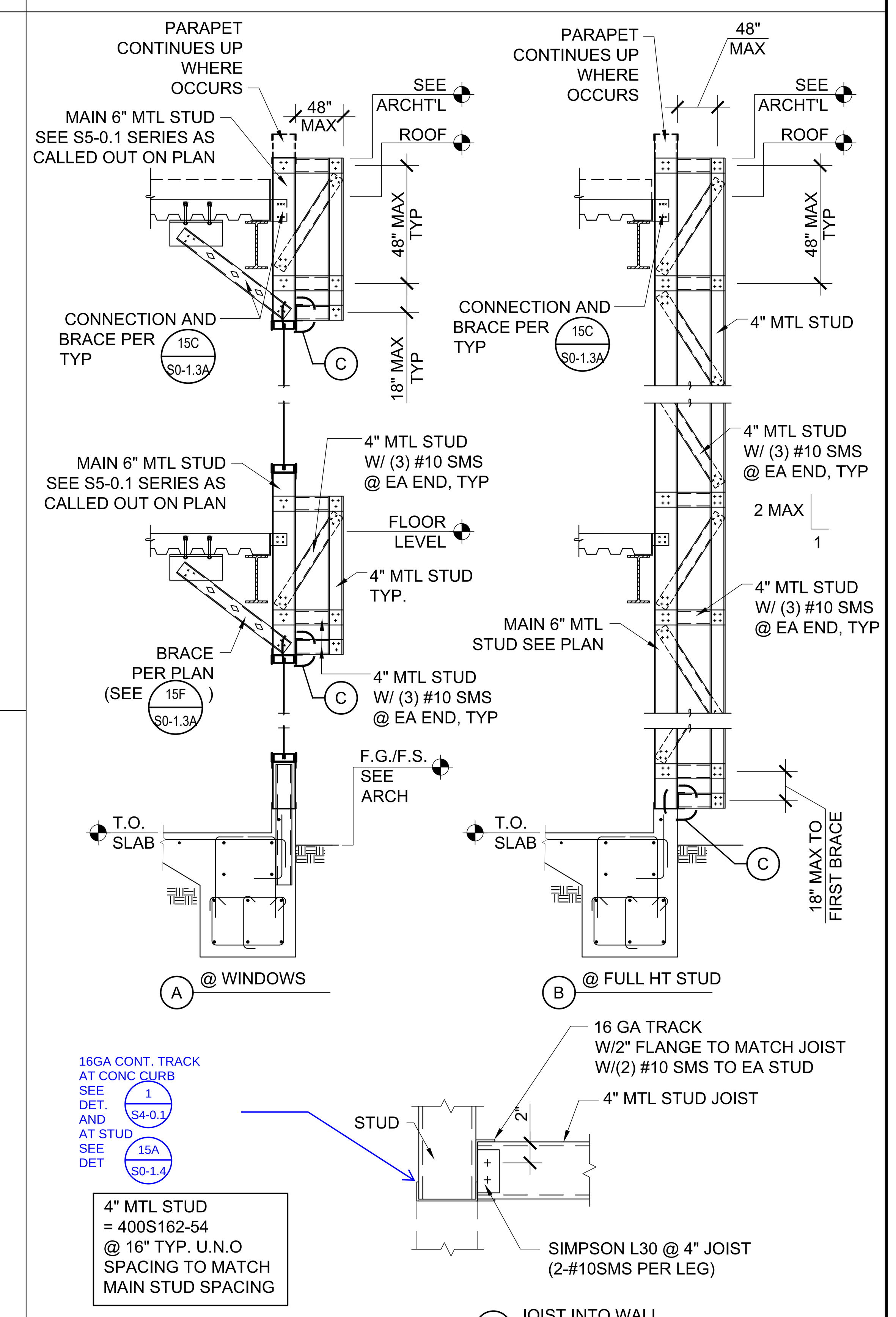
8 NOT USED
NTS



9 TYP. METAL STUD WALL AT INTERSECTION DETAILS
NTS

10 NOT USED
NTS

11 NOT USED
NTS



13 NOT USED
NTS

14 NOT USED
NTS

15 NOT USED
NTS

16 FURRED STUD DETAIL
NTS

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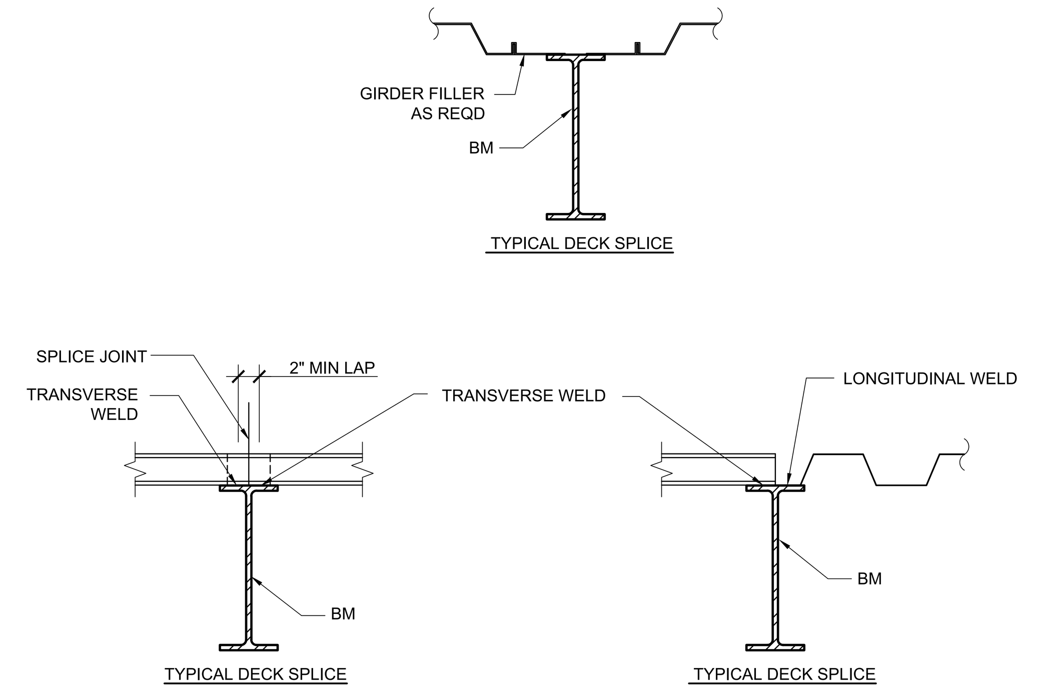


METHOD OF CONNECTIONS:

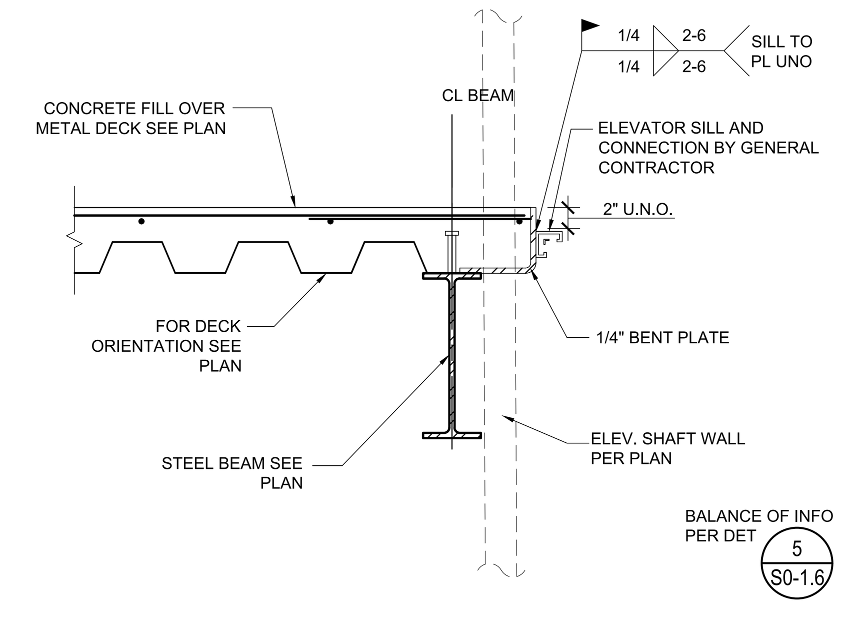
1. ROOF DECK:
   A. STEEL DECK SHALL BE FASTENED TO STEEL FRAMING AT ENDS OF UNITS AND AT ALL INTERMEDIATE SUPPORTS BY MINIMUM (4) 3/4" DIAMETER FUSION (PUDDLE) WELDS EACH PANEL. WHEN TWO PANELS ABUT, EACH PANEL SHALL BE SO ATTACHED.
   B. SIDESEAMS SHALL BE BUTTON PUNCHED AT 12" O/C
   C. AT ALL LONGITUDINAL SUPPORTS AND MEMBERS PARALLEL TO FLUTES, FASTEN WITH 3/4" DIAMETER FUSION (PUDDLE) WELDS @ 12"O/C
2. FLOOR:
   A. STEEL DECK SHALL BE FASTENED TO STEEL FRAMING AT ENDS OF UNITS AND AT ALL INTERMEDIATE SUPPORTS BY (4) 3/4"Ø DIAMETER FUSION (PUDDLE) WELDS EACH PANEL. WHEN TWO PANELS ABUT, EACH PANEL SHALL BE SO ATTACHED.
   B. SIDESEAMS SHALL BE BUTTON PUNCHED @ 36" O/C
   C. AT ALL LONGITUDINAL SUPPORTS AND MEMBERS PARALLEL TO FLUTES, FASTEN WITH 3/4"Ø FUSION (PUDDLE) WELDS @ 12" O/C

NOTES:

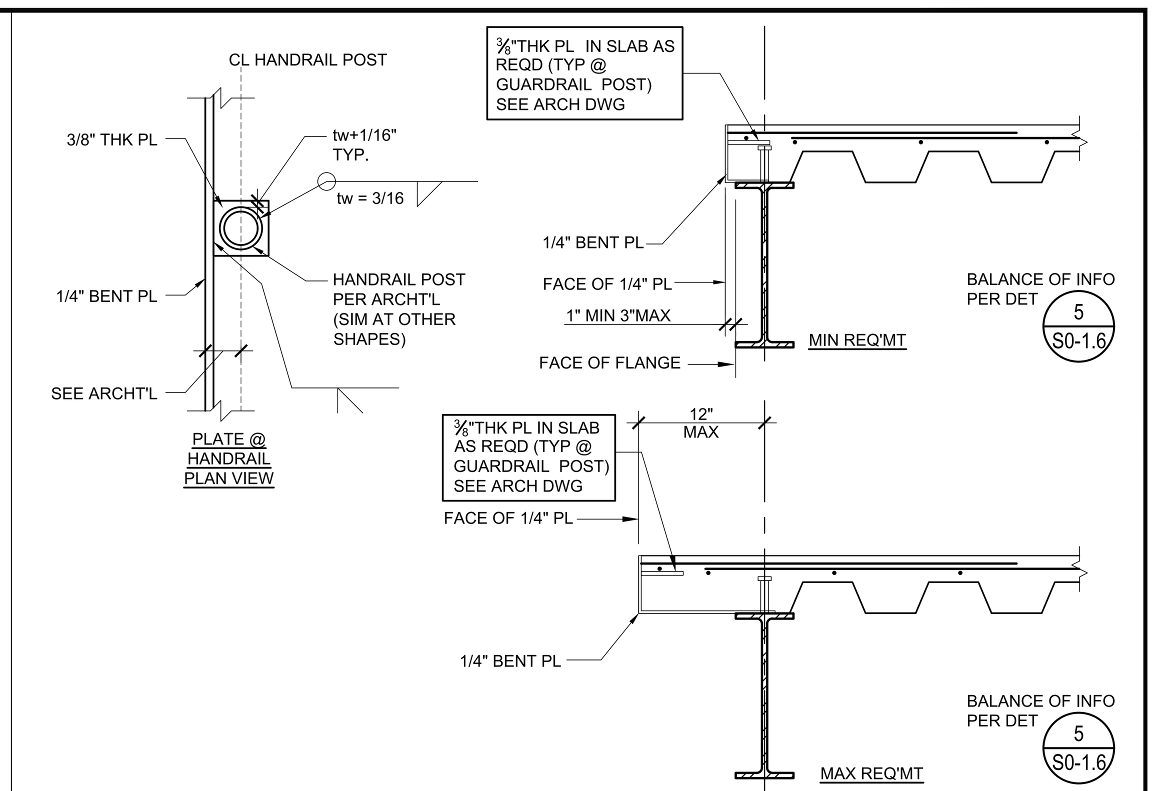
1. PLACE REINFORCEMENT 3/4" CLEAR FROM TOP OF CONCRETE.
2. NOT USED.
3. SEE DET. 8/S0-1.8 FOR TYPICAL WELDED STUD DETAIL FOR WELDED HEADED STUDS.
4. NOT USED.
5. SEE DET. 16/S0-1.8 FOR TYPICAL FRAMING @ COLUMN
6. NOT USED.
7. SEE DET. 4/- FOR TYP. ELEVATOR AND STAIR OPENING. AT ELEVATOR SILL, SEE DETAIL 3/-.
8. SEE DET. 15/- FOR SLOPED DECK TO STEEL BEAM.
9. SEE DET. 12/- FOR DECK WELD/SIDE LAP DETAIL.
10. SEE DET. BELOW FOR WELD /PATTERN.

7 - WELD PATTERN

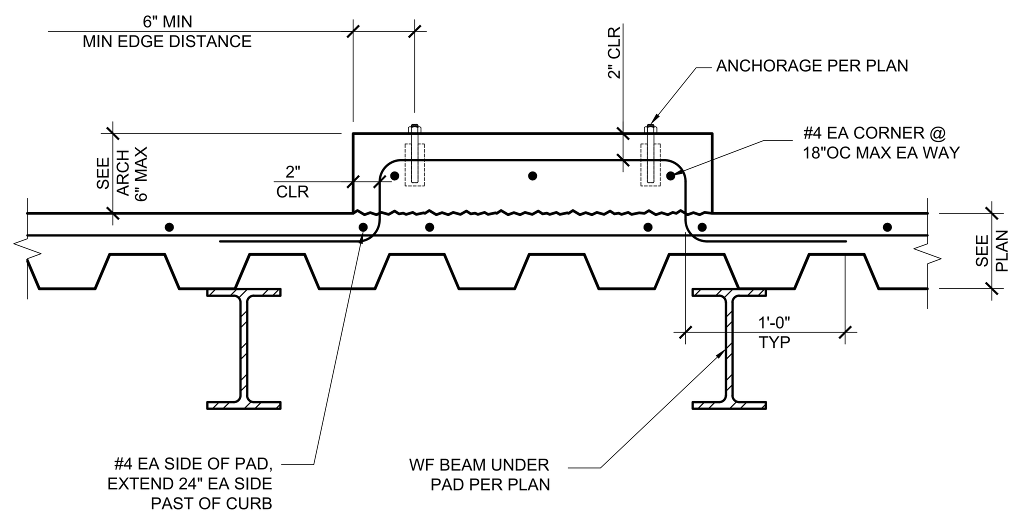
1 TYPICAL METAL DECK CONNECTIONS & PROPERTIES
NTS



3 EDGE CLOSURE AT ELEVATOR SILL SUPPORT
NTS

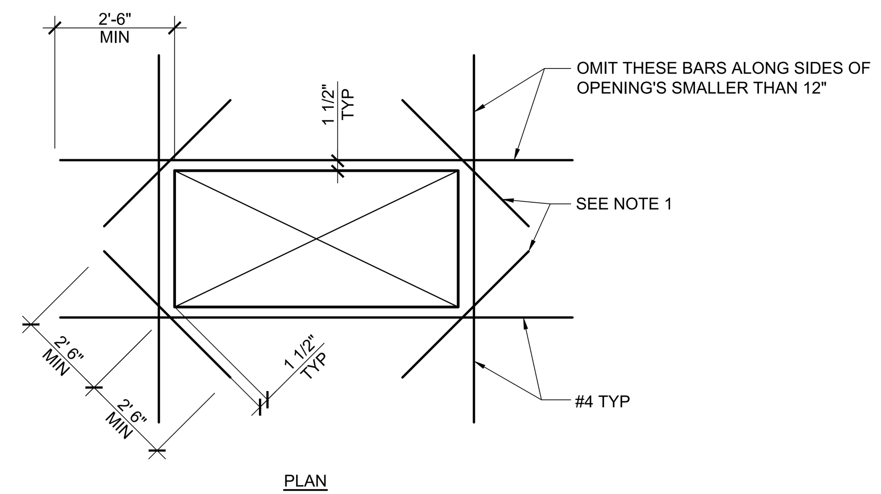


4 TYP SECTION @ STAIR & ELEVATOR OPENING UNO DECK PERP. TO FRAMING WHERE OCCURS
NTS



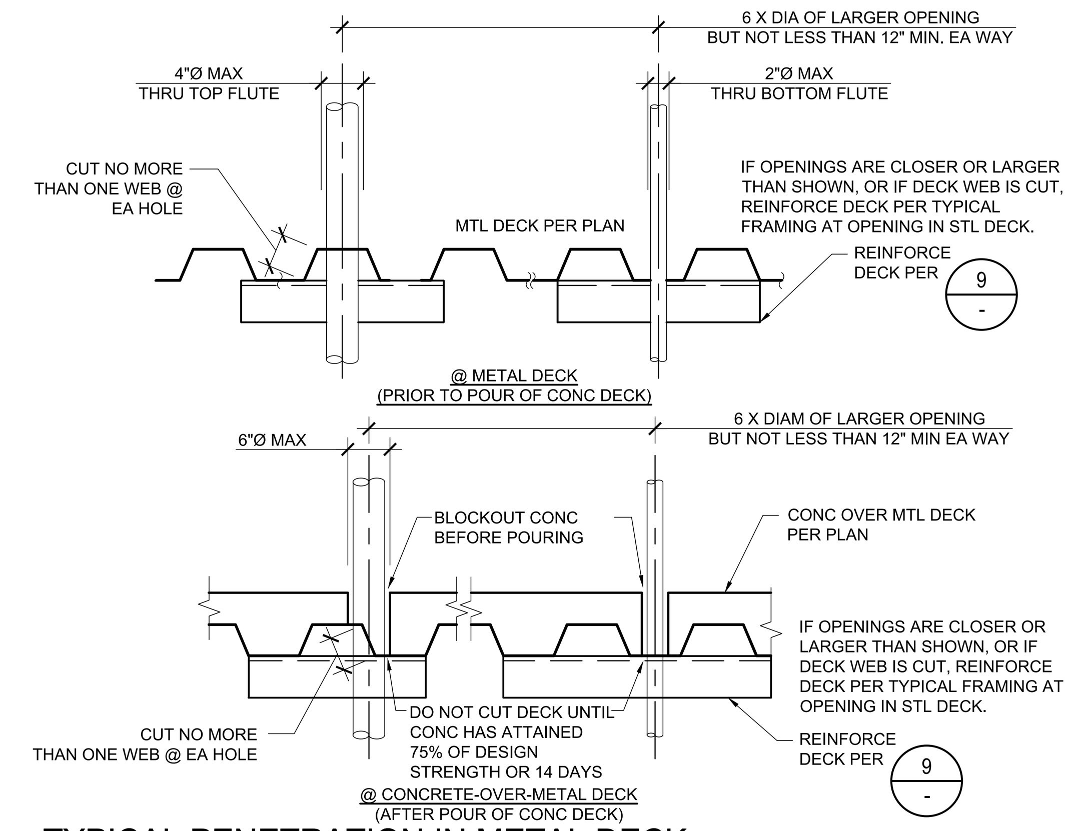
NOTE:
1. REFER TO MECHANICAL , ELECTRICAL DRAWINGS & ARCHITECTURAL DRAWING FOR ADDITIONAL INFORMATION

5 EQUIPMENT PAD @ FLOOR
NTS

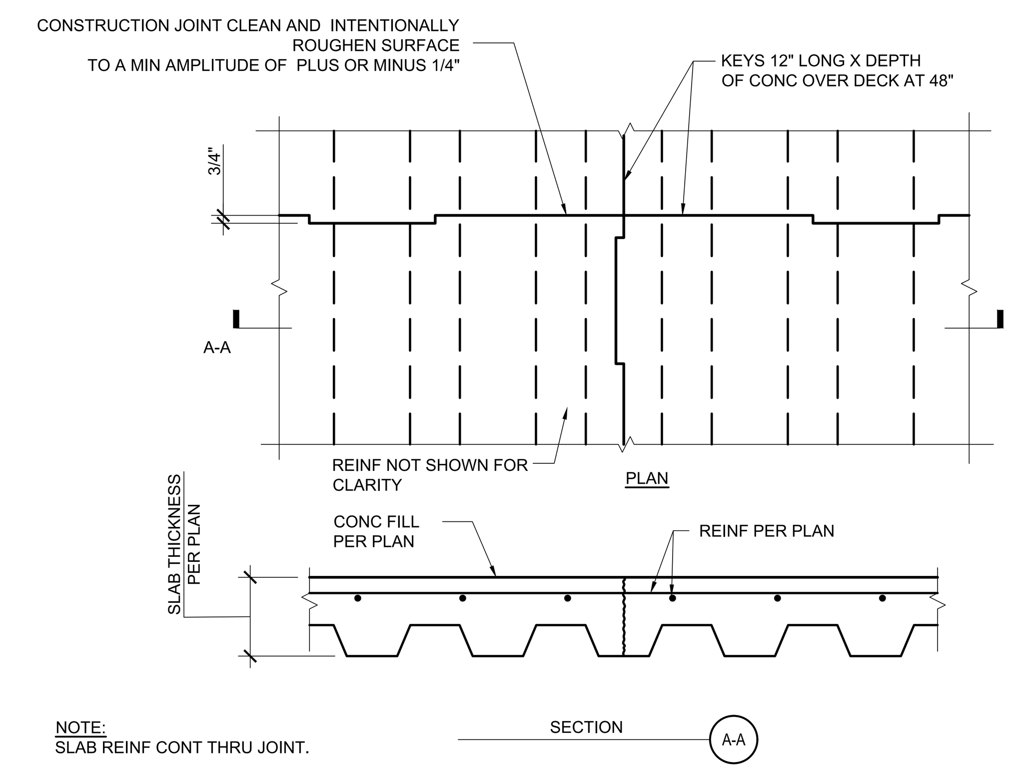


NOTES:
1. PROVIDE (2) #3X5' 0" SIDE BY SIDE AT ALL RE-ENTRANT CORNERS AND AT ALL OPENINGS GREATER THAN 6' 0" SUCH AS ELEVATOR, STAIR OPENINGS AND AIR SHAFTS.
2. ALL OPENINGS LARGER THAN 2' 0" SQ REQUIRE PERIMETER SUPPORT AND ARE TO BE APPROVED BY STRUCTURAL ENGINEER.

6 TYPICAL SLAB ON METAL DECK OPENING
NTS

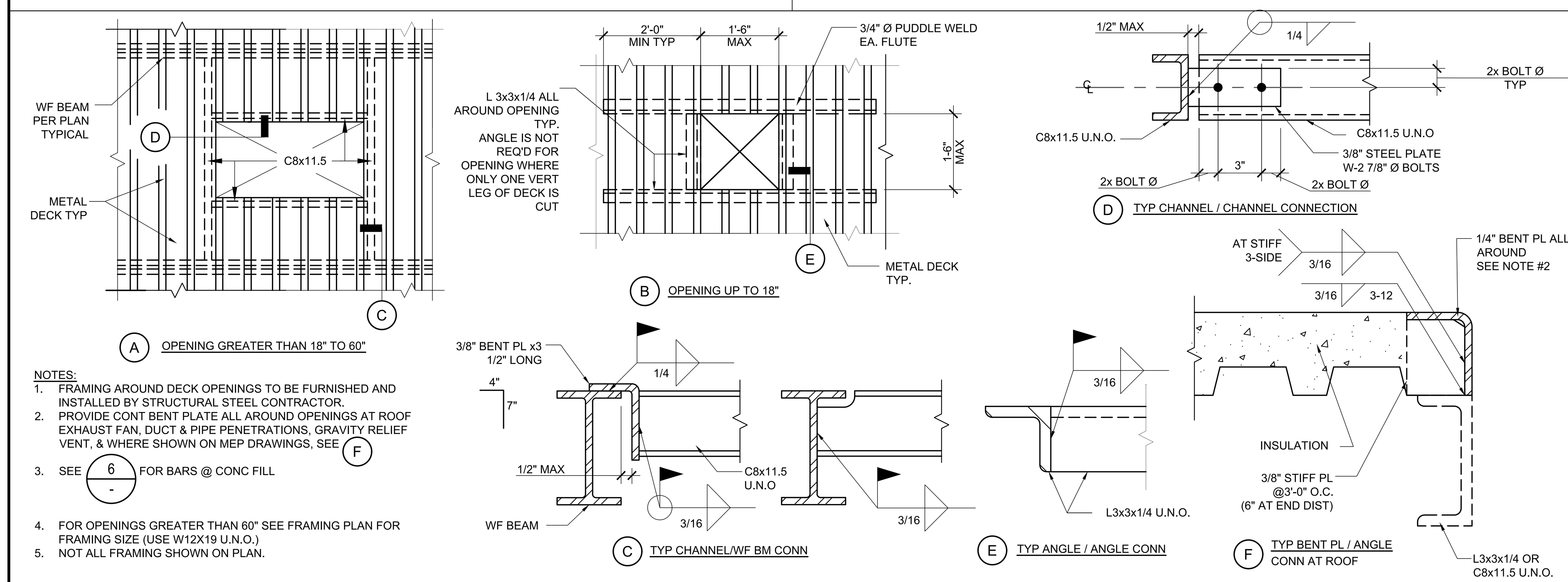


7 TYPICAL PENETRATION IN METAL DECK
NTS



NOTE:
SLAB REINF CONT THRU JOINT.

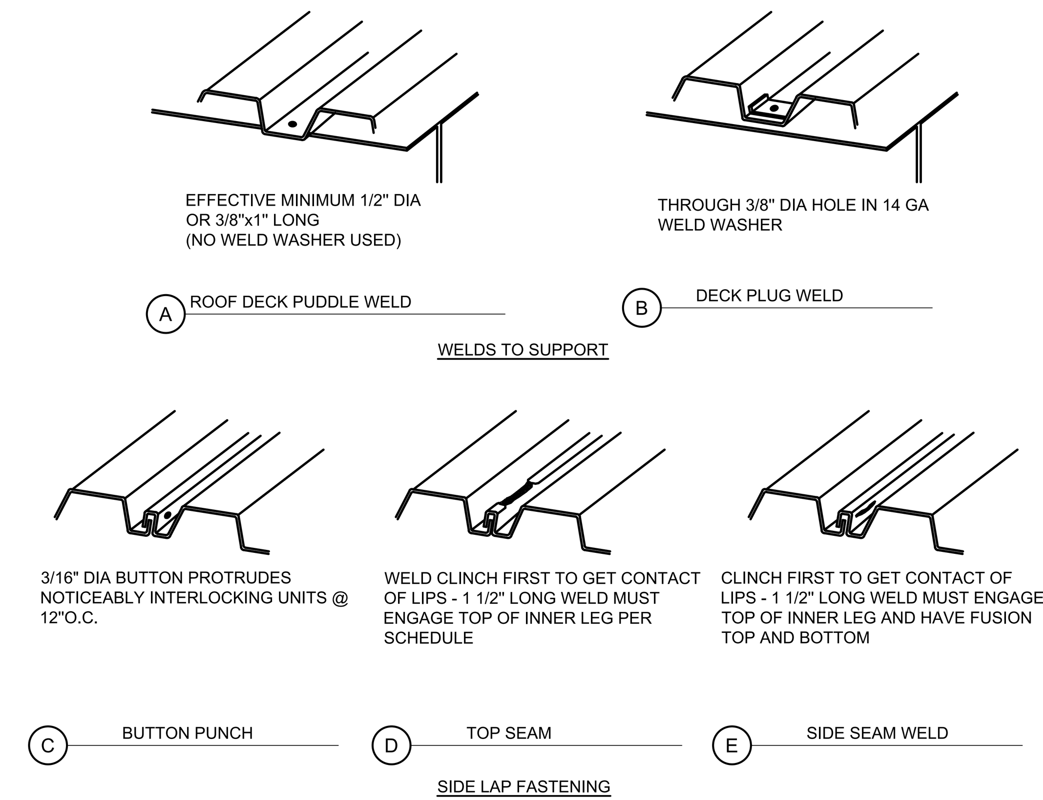
8 TYPICAL CONST JOINT AT DECK WITH CONC FILL
NTS



NOTES:
1. FRAMING AROUND DECK OPENINGS TO BE FURNISHED AND INSTALLED BY STRUCTURAL STEEL CONTRACTOR.
2. PROVIDE CONT BENT PLATE ALL AROUND OPENINGS AT ROOF EXHAUST FAN, DUCT & PIPE PENETRATIONS, GRAVITY RELIEF VENT, & WHERE SHOWN ON MEP DRAWINGS, SEE F
3. SEE 6 - FOR BARS @ CONC FILL
4. FOR OPENINGS GREATER THAN 60" SEE FRAMING PLAN FOR FRAMING SIZE (USE W12X19 U.N.O.)
5. NOT ALL FRAMING SHOWN ON PLAN.

9 TYPICAL FRAMING AT OPENING IN STEEL DECK
NTS

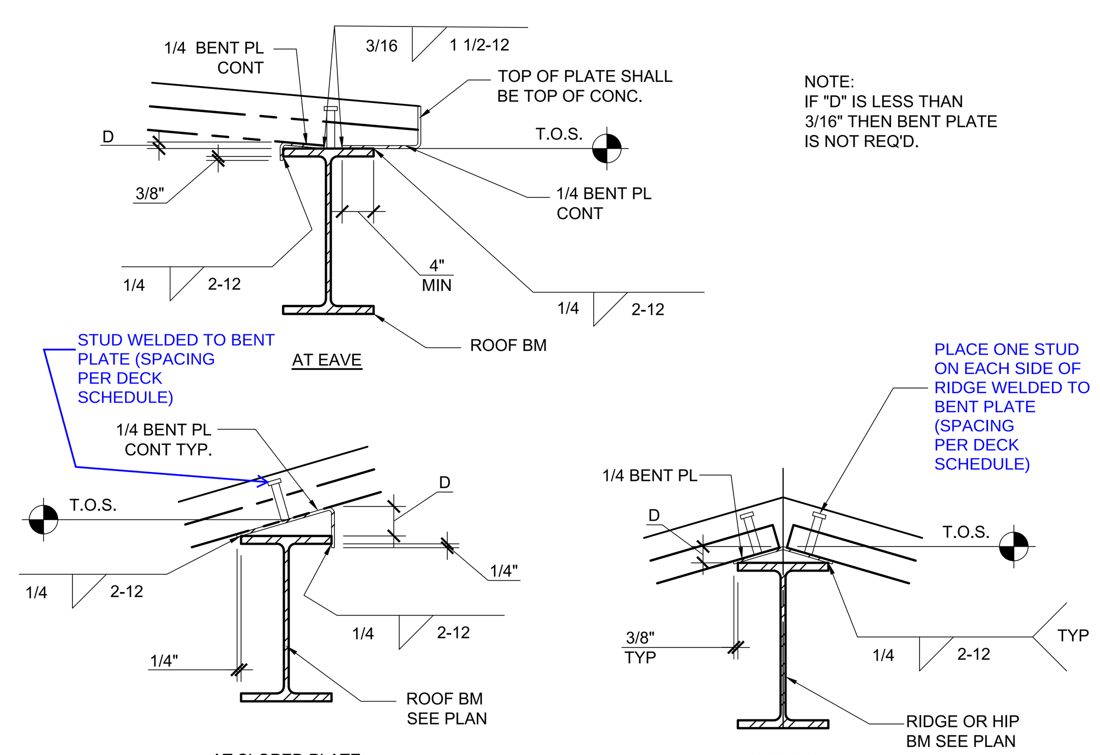
11 NOT USED
NTS



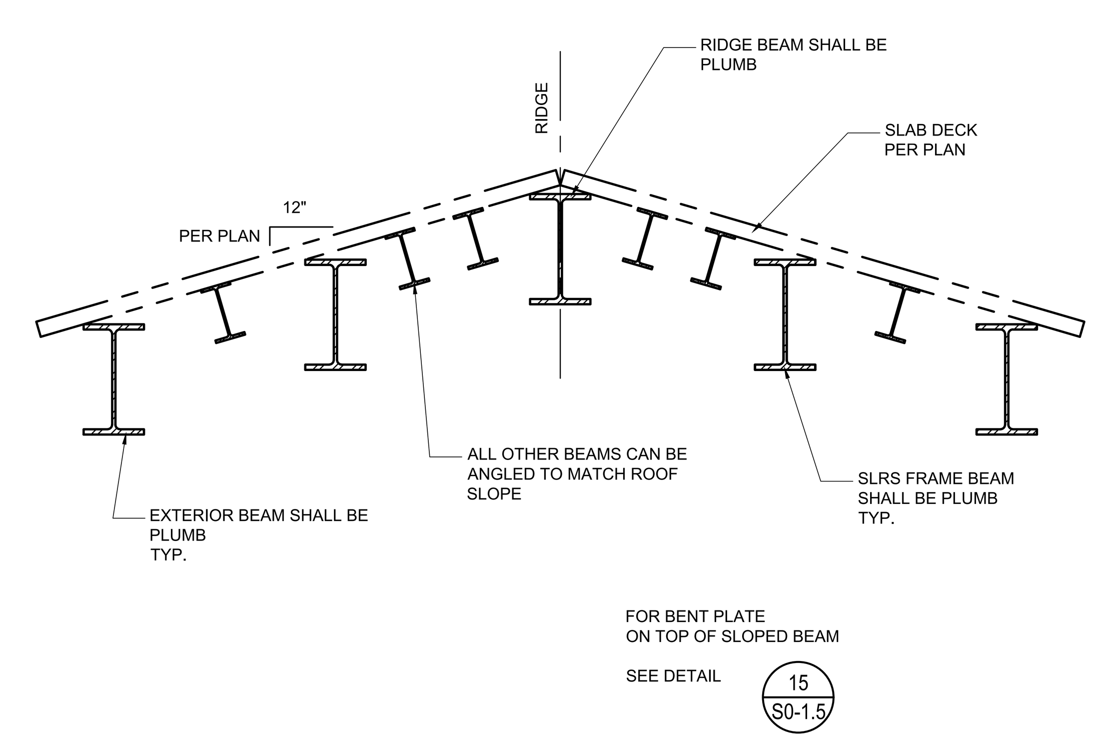
12 TYPICAL METAL DECK WELDING
NTS

13 NOT USED
NTS

14 NOT USED
NTS



15 TYP SLOPED DECK TO BEAM DETAIL
NTS



16 DETAIL
NTS

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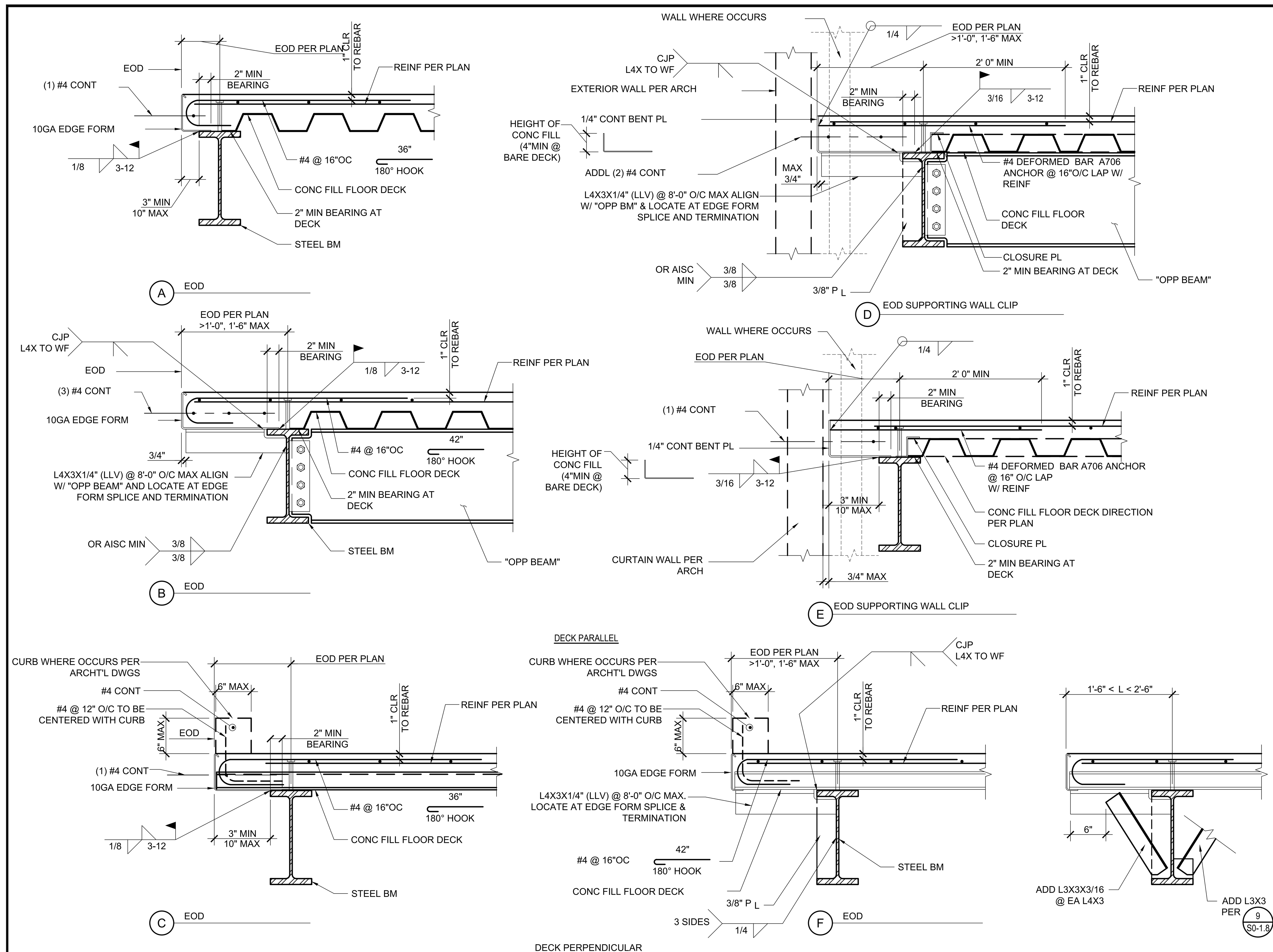
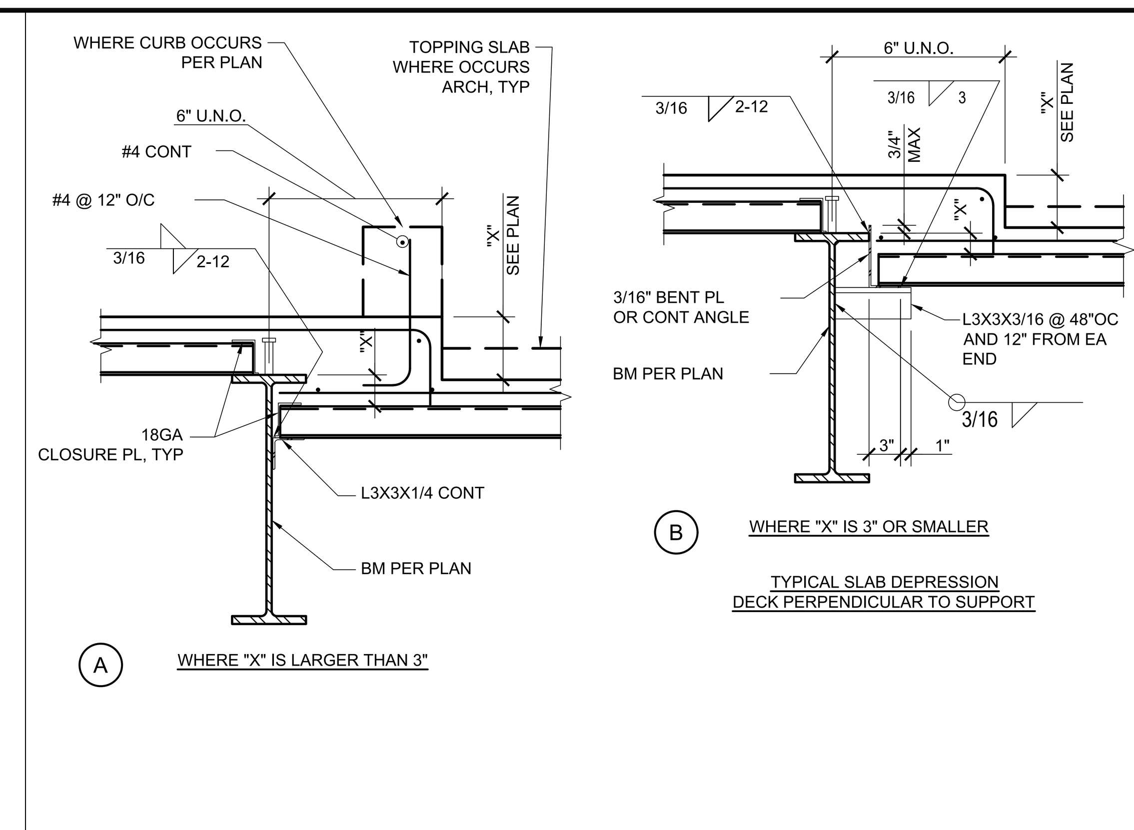
S0-1.5

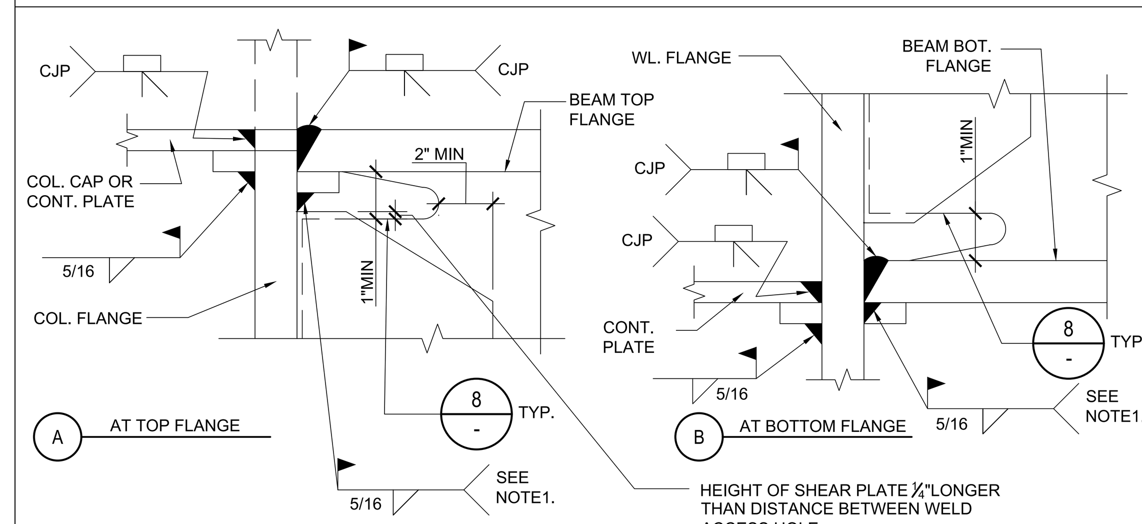


NOTE:
DO NOT USE (A) (B) (C) (F) WHERE CURTAIN WALL OR EXTERIOR STUD WALL ARE ATTACHED TO DECK EDGE.

5 EDGE OF CONCRETE FILL DECK (EOD) AT FLOOR/ROOF
NTS

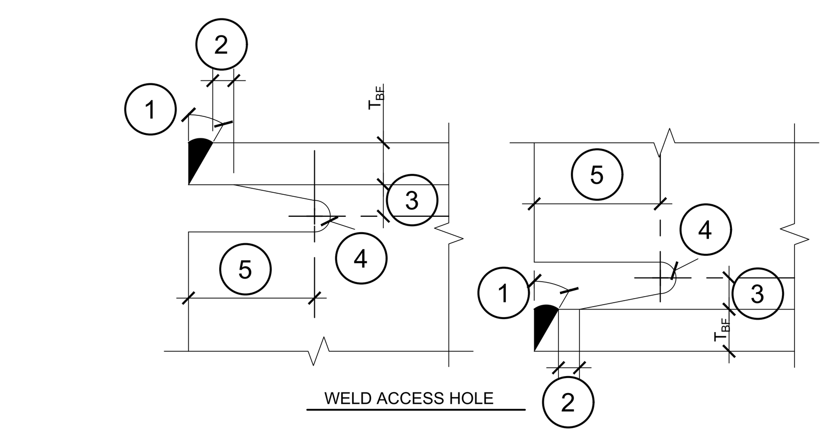


3 TYPICAL STEPPED SLAB
NTS



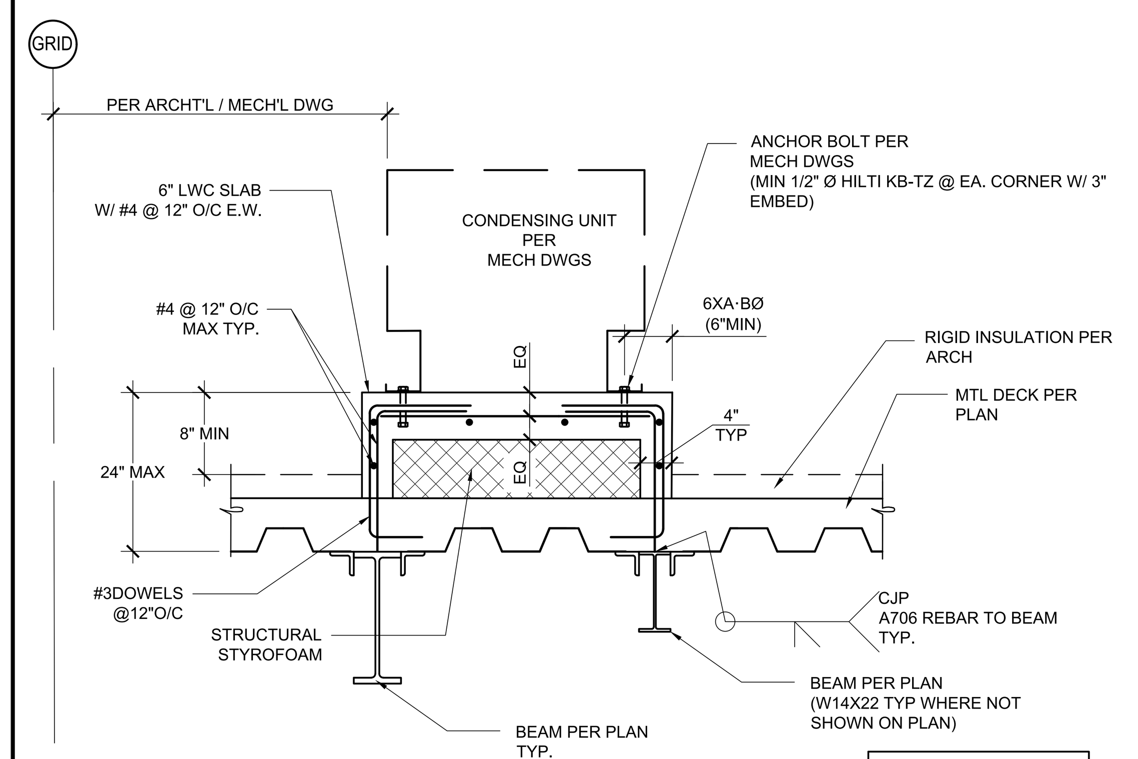
NOTES:
1. REMOVE BACKING
THE ROOT PASS SHALL BE BACKGOUGED TO SOUND WELD METAL AND BACKWELDED WITH A REINFORCING FILLET.(MIN.5/16")
2. WHERE STEEL BACK IS USED AT THE CONTINUITY PLATE, THE BACKING NEED NOT TO BE REMOVED, BUT FOR BACKING LEFT IN PLACE SHALL BE ATTACHED TO COLUMN, FLANGE WITH A 5/16" FILLET WELD BELOW THE CJP WELD (CONT PLATE TO COLUMN FLANGE, NON DC WELD PER AISC 341 E4.6F)EDGE. (AISC 358-10 3.3.1)
3. NOT USED.
4. AT WELDING IN THE K AREA, TEST WEB FOR CRACKS USING MAGNETIC PARTICLE TESTING (MT). THE MT INSPECTION AREA SHALL INCLUDE THE K-AREA BASE METAL WITHIN 3" OF THE WELD. REF. AISC 341-10 J6.2A.
5. NON-DESTRUCTIVE TESTING (NDT) FOR MOMENT CONNECTIONS: SHALL BE PROVIDED FOR ALL CJP WELDED CONNECTION, K-AREA WELDS, ETC PER AISC 341-10 J6.2 IN ADDITION TO AISC 360-10 N5.5, AND PER DSA IR 17-2 QA REQUIREMENTS.

7 OCBF BEAM TO COL FLANGE WELDS
NTS



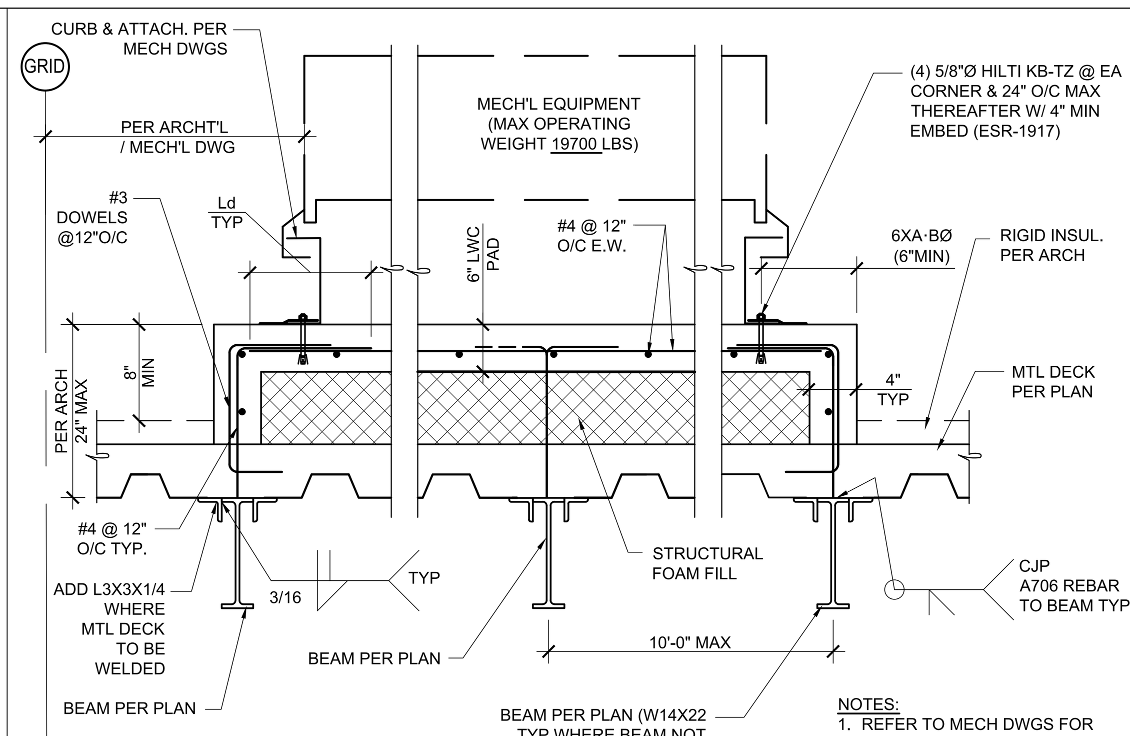
NOTES:
1. BEVEL AS REQD BY AWS D1.1 FOR GROOVE WELD PROCEDURE.
2. LARGER OF T_{BF} OR 1/2".
3. 3/4" T_{BF} TO T_{BF}, 3/4" MIN.
4. 3/8" MIN RADIUS.
5. 3 T_{BF}.
6. WELD ACCESS HOLE: SHALL PER AISC 360-10 J1.6 PER 2/-.
7. SEE AWS D1.8 SECTION 6.10.2 FOR FABRICATION DETAILS INCLUDING CUTTING METHODS AND SMOOTHNESS REQUIREMENTS.
8. TOLERANCE SHALL NOT ACCUMULATE TO THE EXTEND THAT THE ANGLE OF THE ACCESS HOLE CUT TO THE FLANGE SURFACE EXCEEDS 25°

8 WELD ACCESS HOLE
NTS



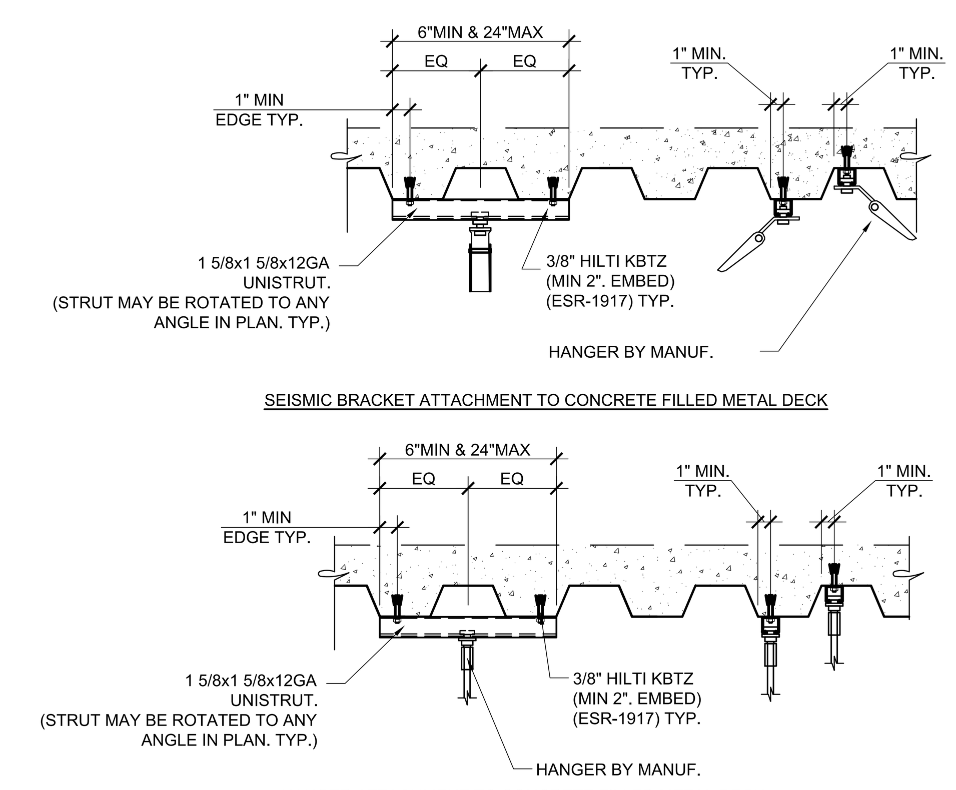
SEE DETAIL 10 FOR BALANCE OF INFO

9 CONDENSING UNIT @ ROOF
NTS

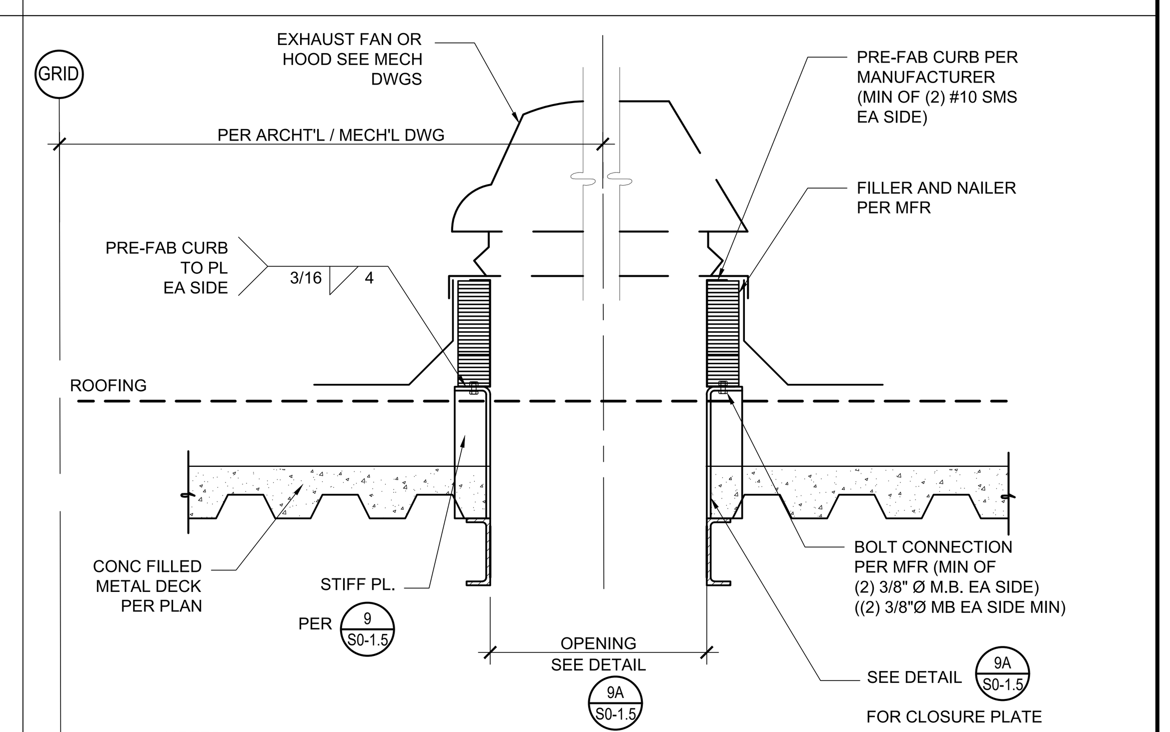


NOTES:
1. REFER TO MECH DWGS FOR ADDITIONAL INFO.
2. REFER TO ARCH DWGS FOR DIMENSIONS & LOCATIONS

10 SECTION AT EQUIPMENT PAD @ ROOF
NTS



11 UNISTRUT ATTACHMENT
NTS



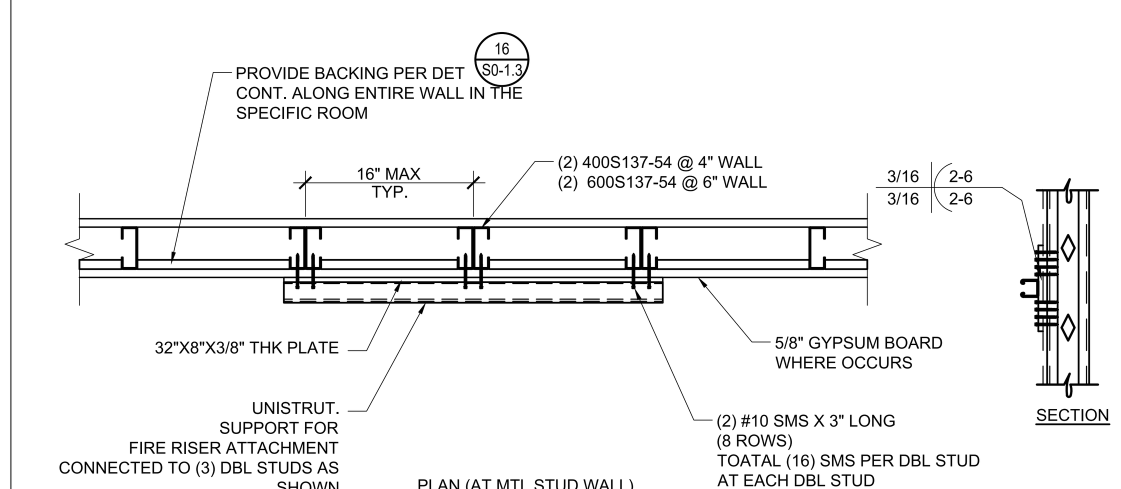
NOTES:
1. SEE MECHANICAL DOCUMENTS FOR BALANCE OF INFORMATION.
2. SEE DETAIL 9A S0-1.5 FOR STEEL SIZE AND CONNECTION.

12 TYP EXHAUST FAN & INTAKE HOOD ANCHOR AGE DETAIL
NTS

13 NOT USED
NTS

14 NOT USED
NTS

15 NOT USED
NTS



16 UNISTRUT TO METAL STUD CONNECTION
NTS

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Project No.: D322

REGISTERED PROFESSIONAL ENGINEER No. S4029 Exp. 9/30/20 STRUCTURAL STATE OF CALIFORNIA

consultant

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COMPTON, CA 90221

owner

tBP project number : 20987.00
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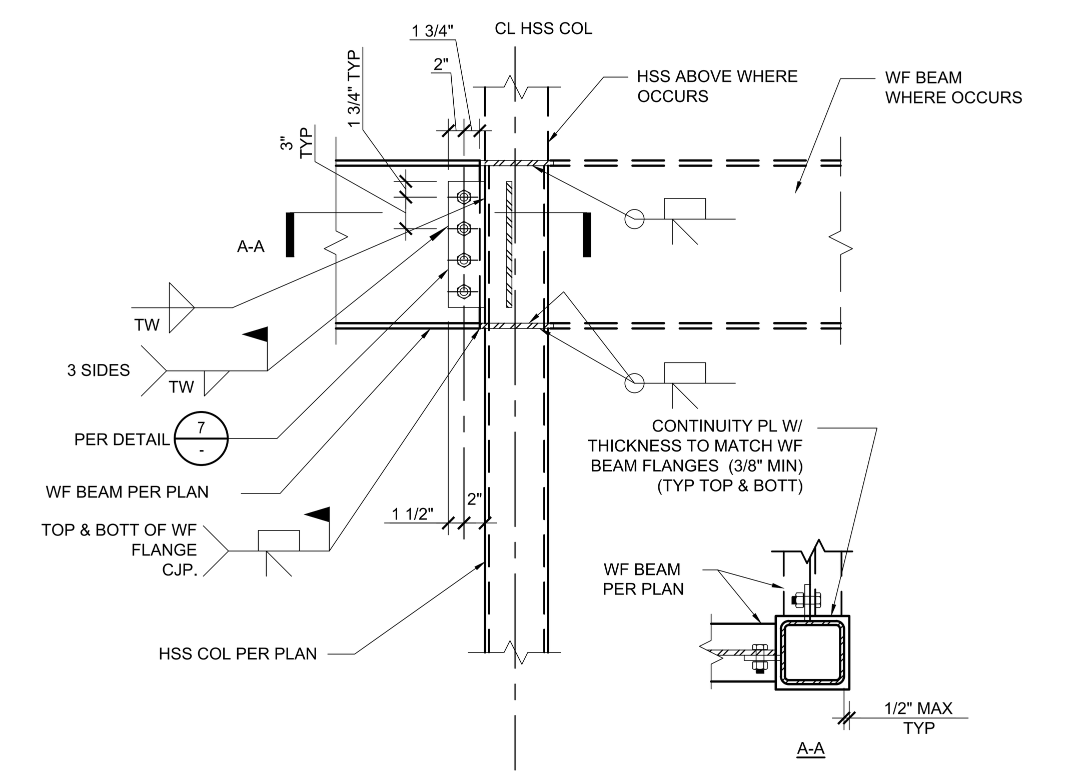
Rev: date: description:

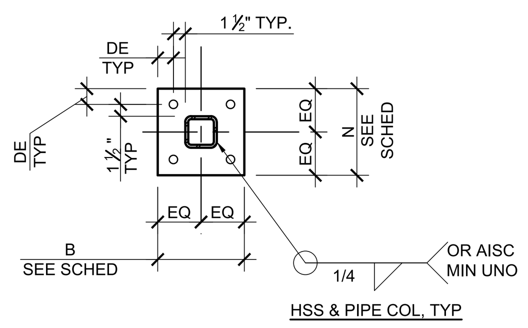
drawing title:
TYPICAL DETAILS

drawing no.:
S0-1.6



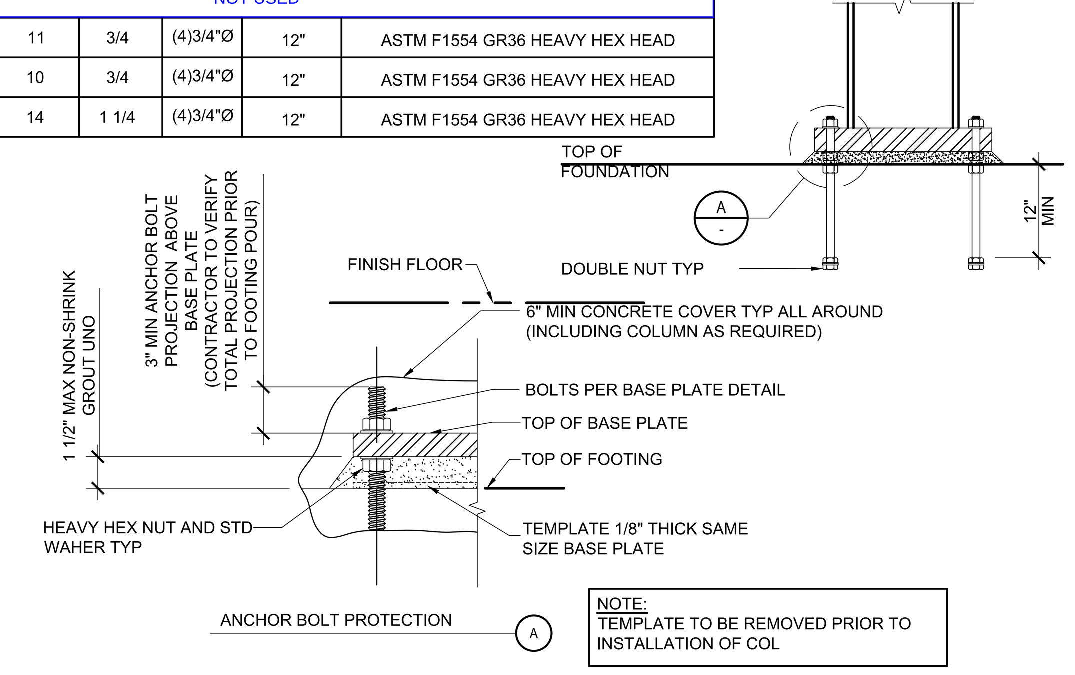
1 WF BEAM TO HSS COL. MOMENT CONNECTION

N.T.S.



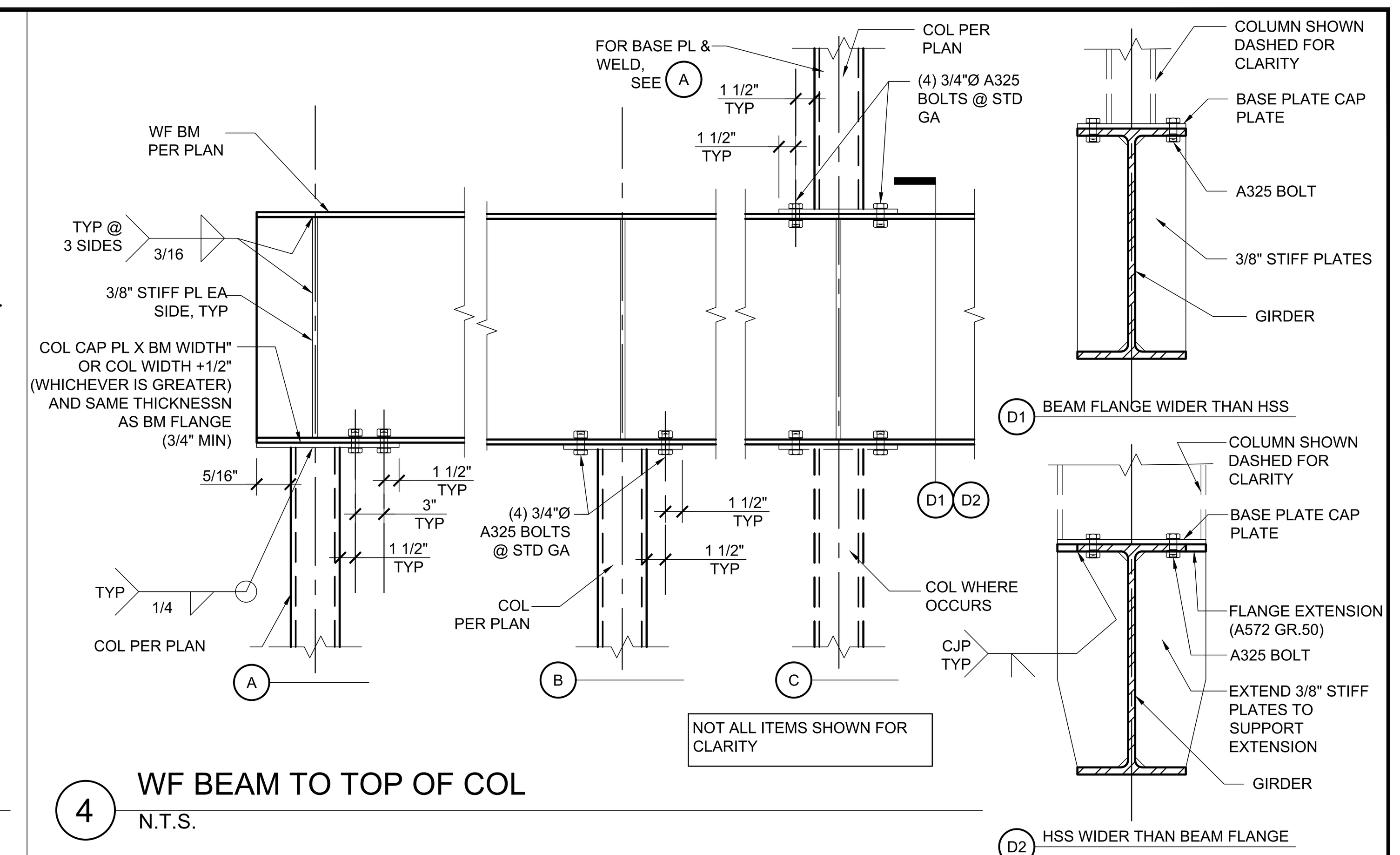
COLUMN BASE PLATE SCHEDULE						
COLUMN SIZE	BASE PLATE			ANCHOR ROD		REMARKS
	B (in)	N (in)	t (in)	DIA	EMBED(in)	
NOT USED						
HSS5.5X5.5	11	11	3/4	(4)3/4"Ø	12"	ASTM F1554 GR36 HEAVY HEX HEAD
HSS 8X4	14	10	3/4	(4)3/4"Ø	12"	ASTM F1554 GR36 HEAVY HEX HEAD
HSS 8X8	14	14	1 1/4	(4)3/4"Ø	12"	ASTM F1554 GR36 HEAVY HEX HEAD

EDGE DISTANCE SCHEDULE	
BOLT DIAMETER (IN)	EDGE DISTANCE, "DE" (IN)
3/4"Ø , 7/8"Ø	1 1/2"
1"Ø	1 3/4"
1 1/8"Ø	2"
1 1/4"Ø	2 1/4"



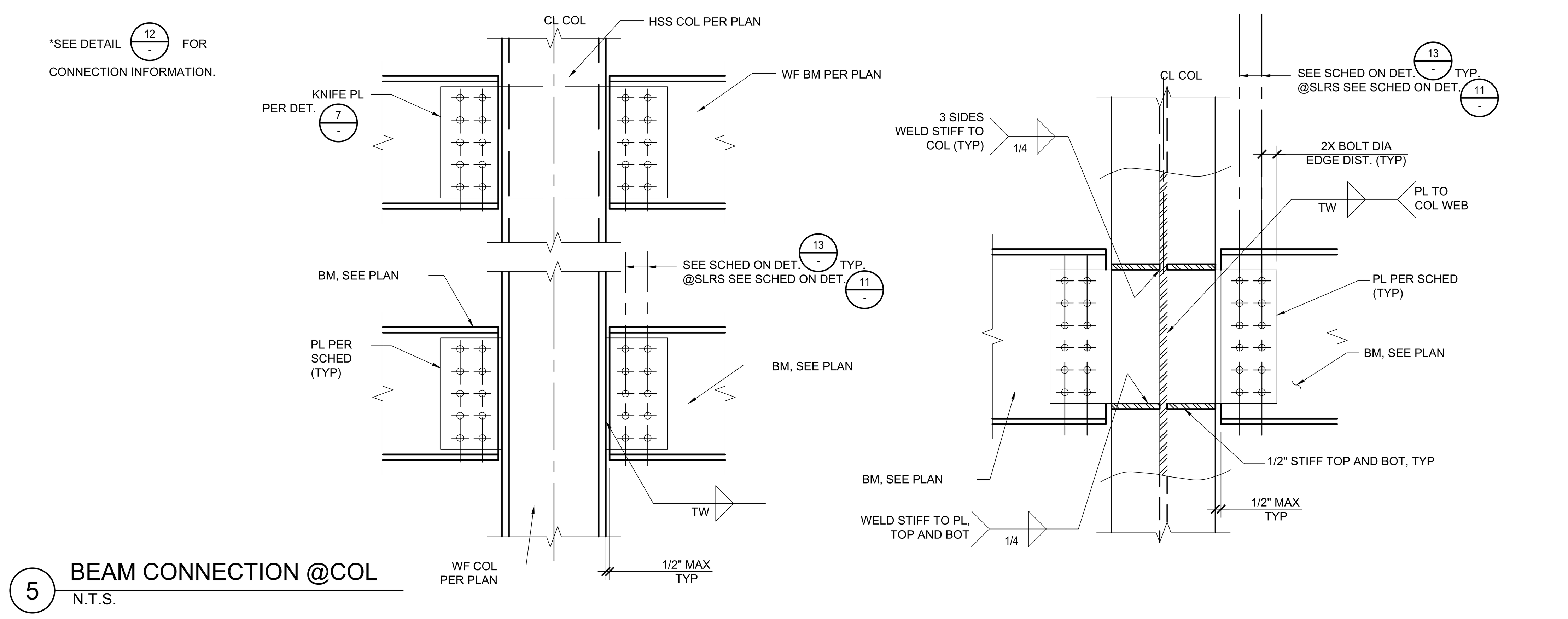
2 GRAVITY COLUMN BASE PLATE DETAIL

N.T.S.



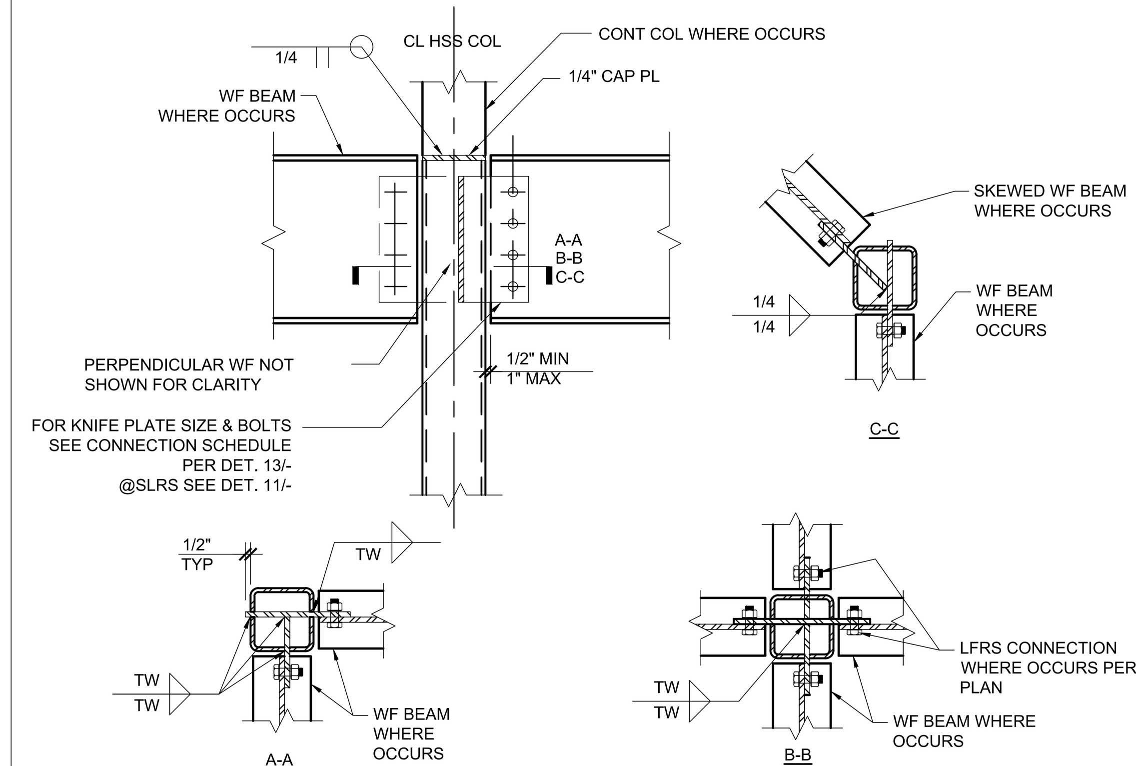
4 WF BEAM TO TOP OF COL

N.T.S.



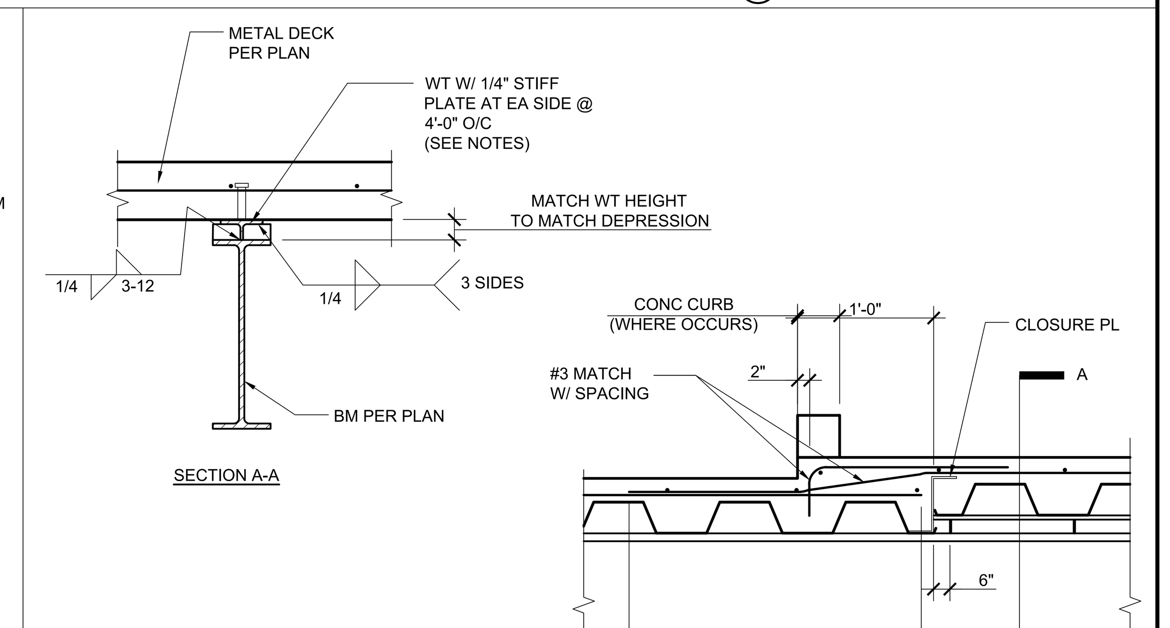
5 BEAM CONNECTION @COL

N.T.S.



7 TYPICAL BEAM TO HSS COL

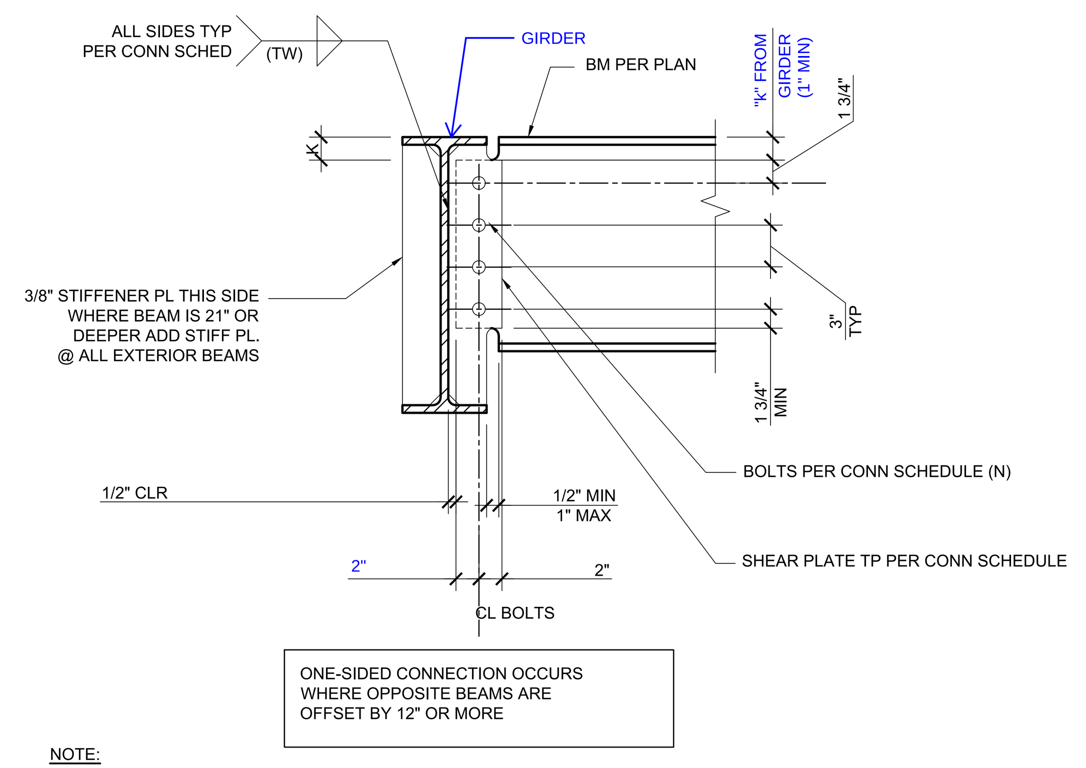
N.T.S.



NOTES:
1. PROVIDE WT WHERE REQUIRED. NOTE THAT WT IS NOT SHOWN ON PLAN.
2. WT TO MATCH BM t_f, t_w, 4" MIN FLANGE WIDTH
3. MAX WT HEIGHT IS 6".

8 DROPPED BEAM W/T

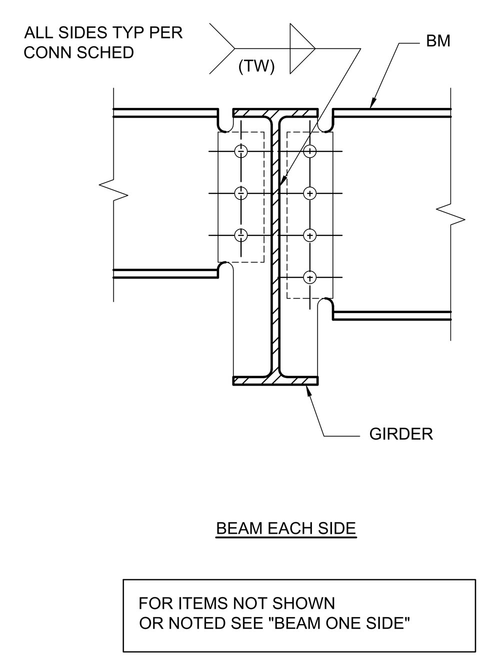
N.T.S.



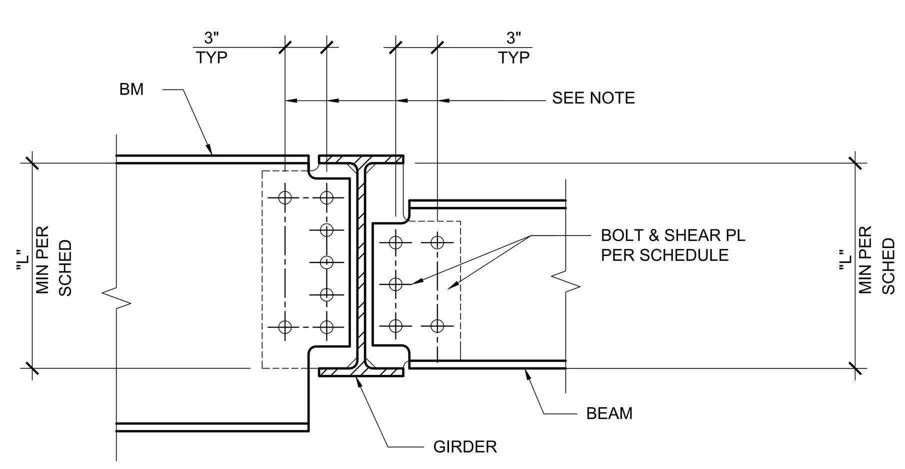
NOTE:

1. USE STANDARD BOLT HOLES

BEAM ONE SIDE



TYP WF BEAM TO WF BEAM



DROP BEAM OR DEEPER BEAM THAN GIRDER CONNECTION

WF BM & GIRDER CONNECTION SCHEDULE				
WF BM	(N) A325N BOLTS UNO	(L) MIN PLATE / WELD LENGTH	(TP) MIN PLATE THICKNESS	(TW) 1 MIN WELD THICKNESS
NOT USED				
W10	(2) 3/4"Ø	6"	3/8"	1/4"
W12	(3) 1"Ø	9"	3/8"	1/4"
W14	(3) 1"Ø	9"	3/8"	1/4"
W16	(4) 1"Ø	12"	3/8"	1/4"
W18	(5) 1"Ø	15"	1/2"2	3/8"
W21,24	(6) 1"Ø	18"	1/2"2	3/8"
NOT USED				

NOTES:
1. 5/16" MIN FOR COLUMN FLANGES GREATER THAN 3/4" THICK
2. PL 1/2" & THICKER SHALL BE GAS OR SAW CUT
3. ALL BOLT HOLES SHALL BE STD HOLES UNO.

NOTE:
1. WHERE NUMBER OF REQUIRED BOLTS PER PLAN OR SCHEDULE ARE MORE THAN NUMBER OF BOLTS THAT FIT AT ONE ROW, USE MAXIMUM BOLTS AT FIRST ROW & BALANCE IN SECOND ROW (2 BOLTS MIN AT SECOND ROW).
2. PROVIDE TILTED SHEAR PLATE WHERE BEAMS ARE TILTED PER 16/S0-1.5

13 TYPICAL BEAM TO COLUMN AND BEAM TO BEAM CONNECTION

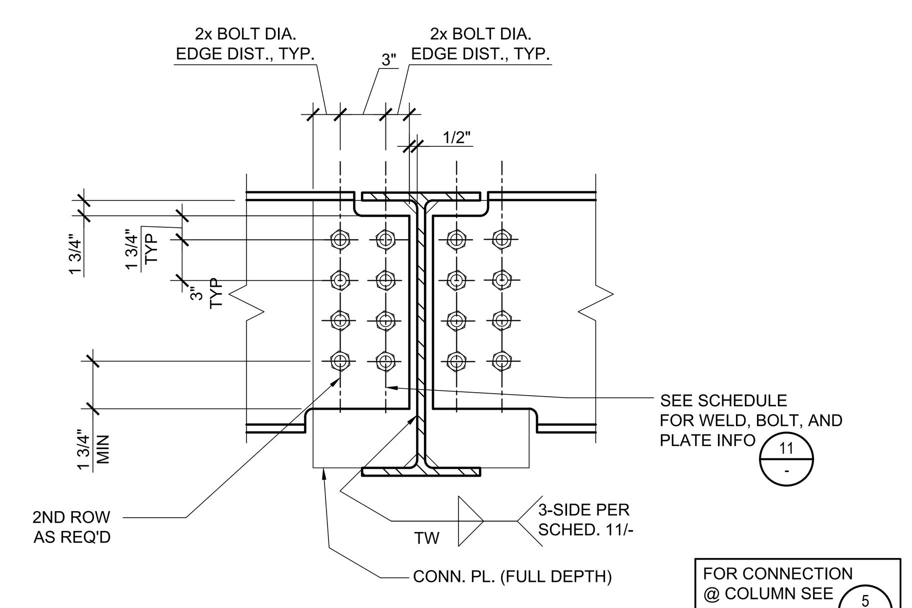
N.T.S.

DRAG STRUT CONNECTION SCHEDULE				
MEMBER	CONN. PL THICKNESS "t" U.N.O.	# OF BOLTS A490 - SC PER ROW	NO. OF ROWS	WELD SIZE TW
W12-14	3/4"	3 - 1" DIA	SEE PLAN	3/8"
W16	1"	4 - 1" DIA		1/2"
W18	1"	5 - 1" DIA		1/2"
W21	1"	6 - 1" DIA		1/2"
W24	1 1/4"	6 - 1" DIA		3/4"

NOTES:
1. FILLET WELDS INDICATED PER SCHEDULE SHALL BE REPLACED WITH COMPLETE PENETRATION GROOVE WELDS WHERE SKEWED BEAM CONNECTIONS WITH ANGLES SMALLER THAN 60° (BETWEEN BEAM AND GIRDER) OCCUR, TYP. U.N.O.
2. INSTALLATION OF HIGH STRENGTH BOLTS SHALL BE TESTED BY USING CALIBRATED WRENCH AS PER AISC SPECIFICATIONS. WRENCH SHALL BE CALIBRATED AT LEAST TWICE A DAY

11 DRAG STRUT CONNECTION SCHEDULE

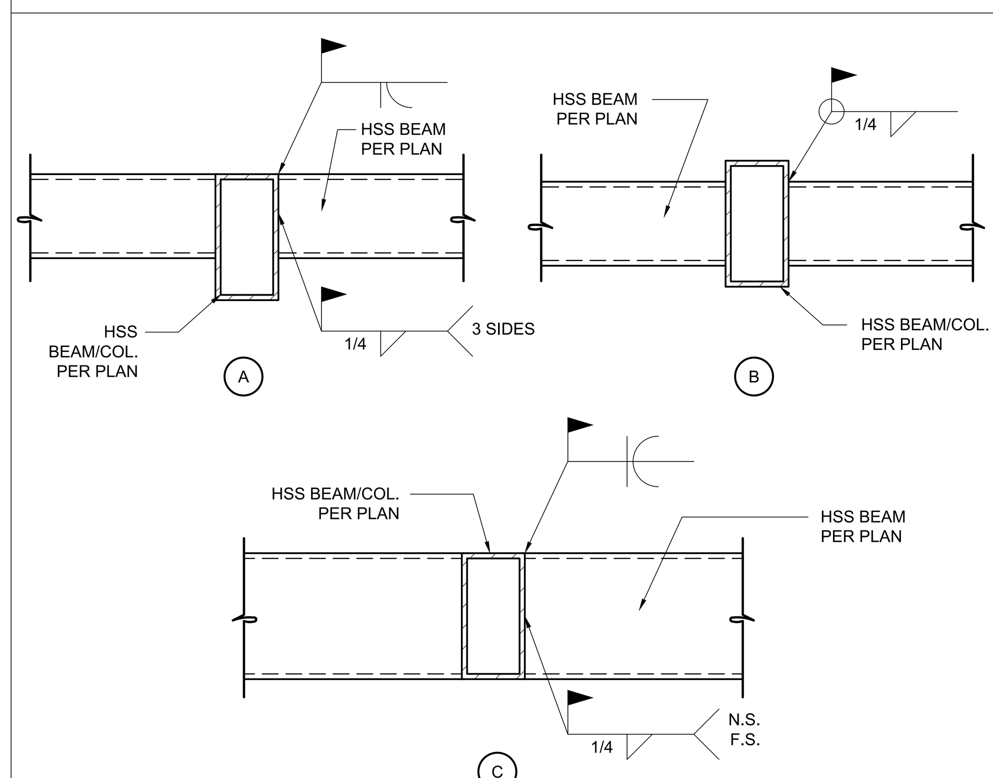
N.T.S.



DRAG STRUT CONNECTION

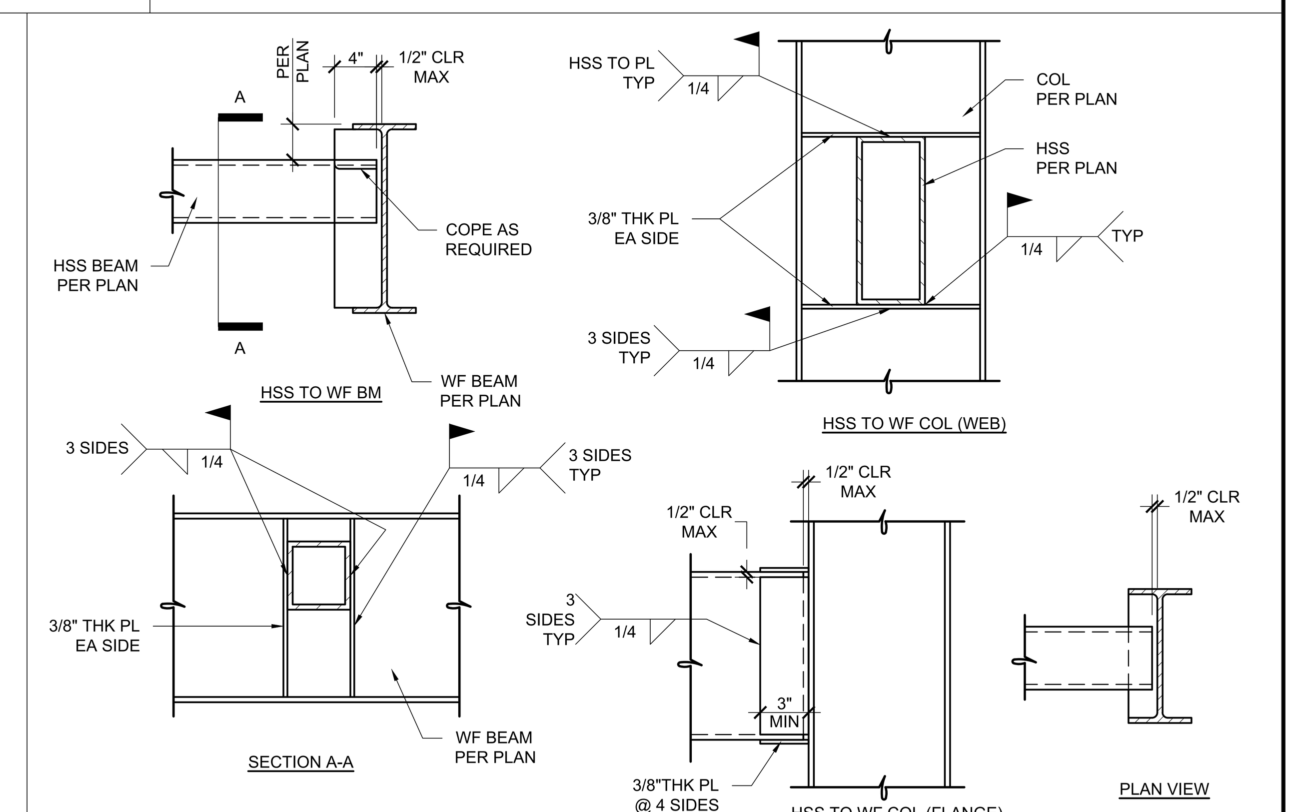
12 DRAG STRUT CONNECTION AT GIRDER

N.T.S.



15 HSS BEAM TO HSS CONNECTION

N.T.S.



16 HSS BEAM TO WF BEAM CONNECTION

N.T.S.

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drawn by: tBP checked by: T. HALL

date: 9.3.2019

Rev: date: description:

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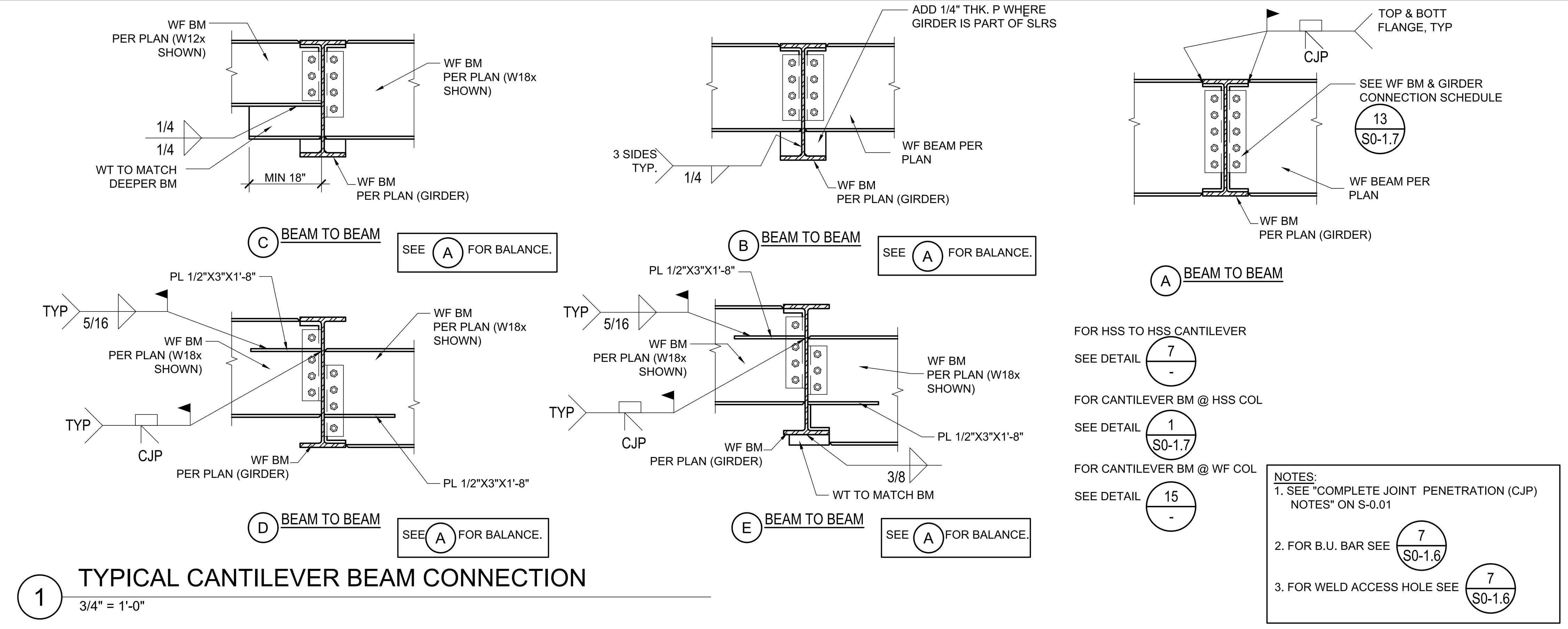
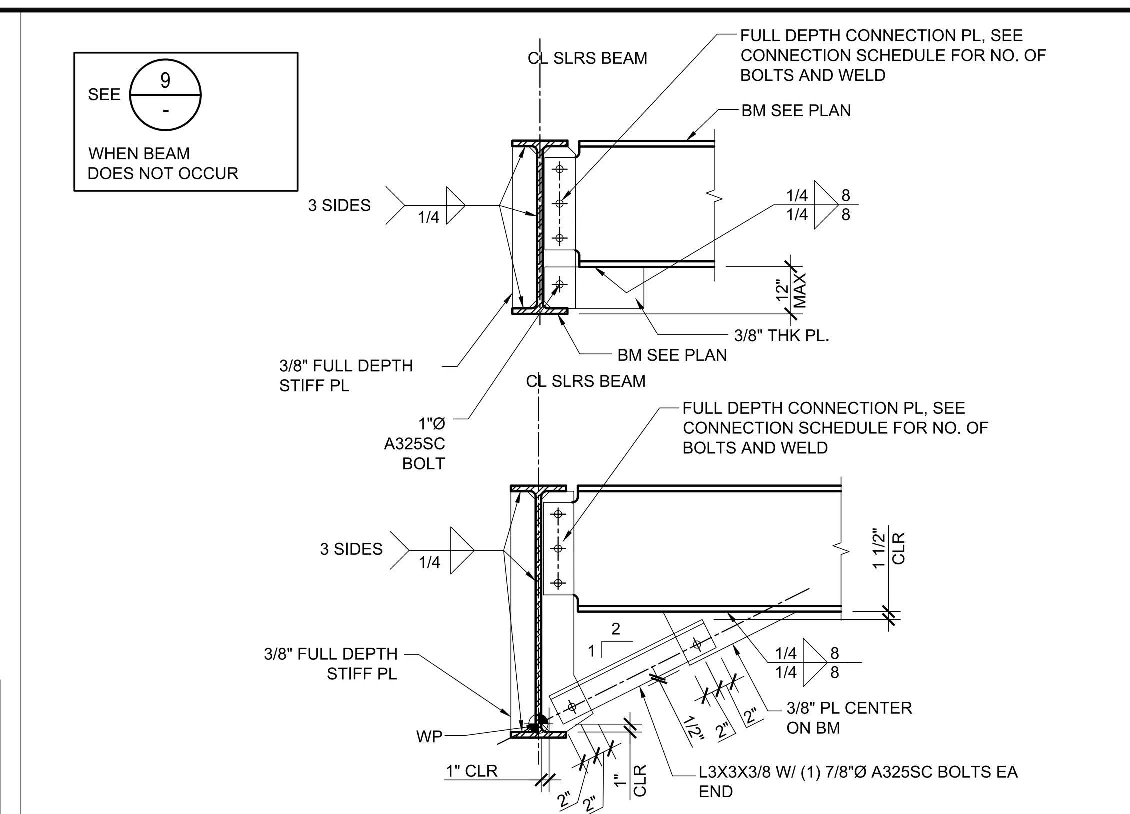
TYPICAL DETAILS

drawing no.:

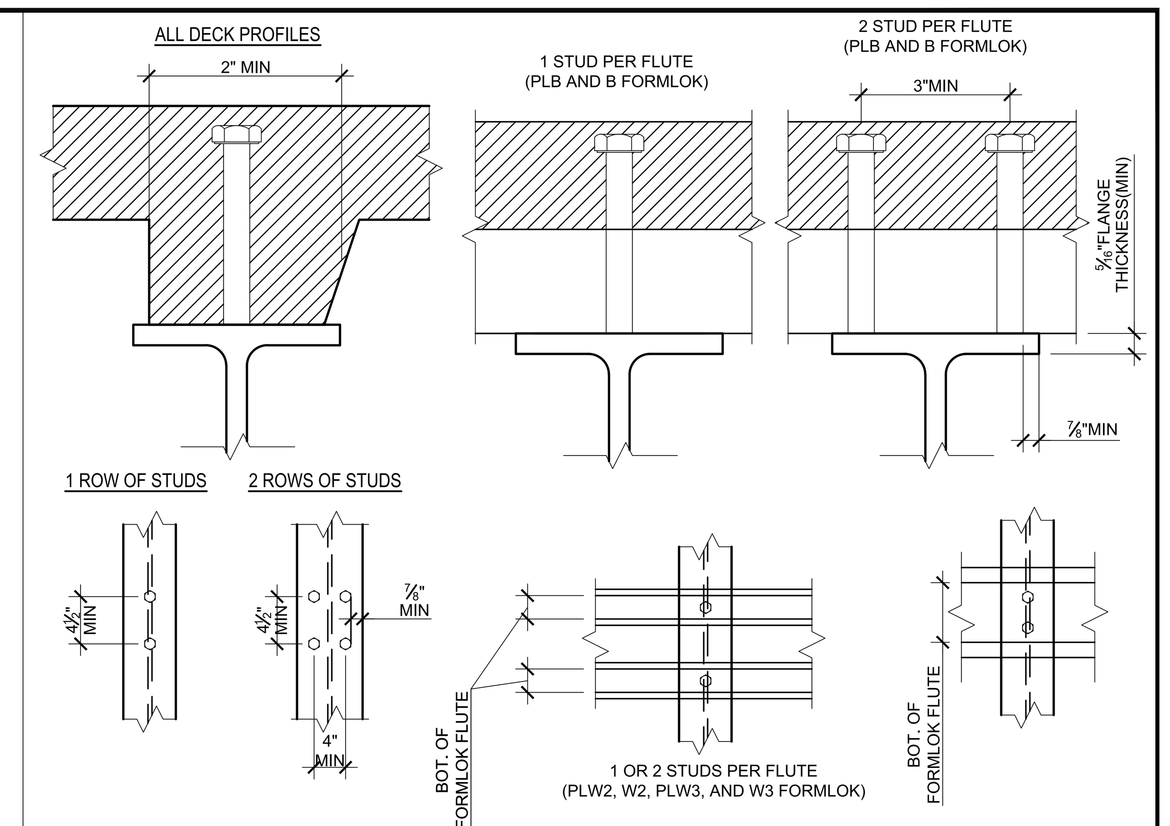
S0-1.7

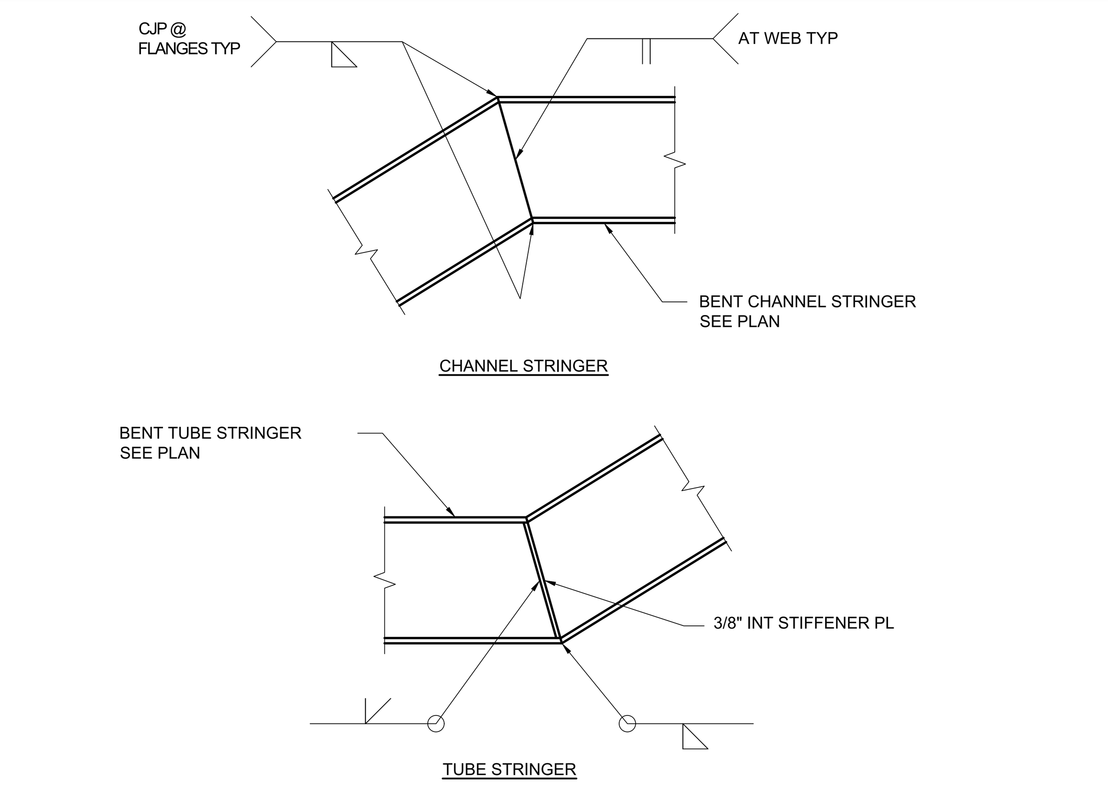


1 TYPICAL CANTILEVER BEAM CONNECTION
3/4" = 1'-0"

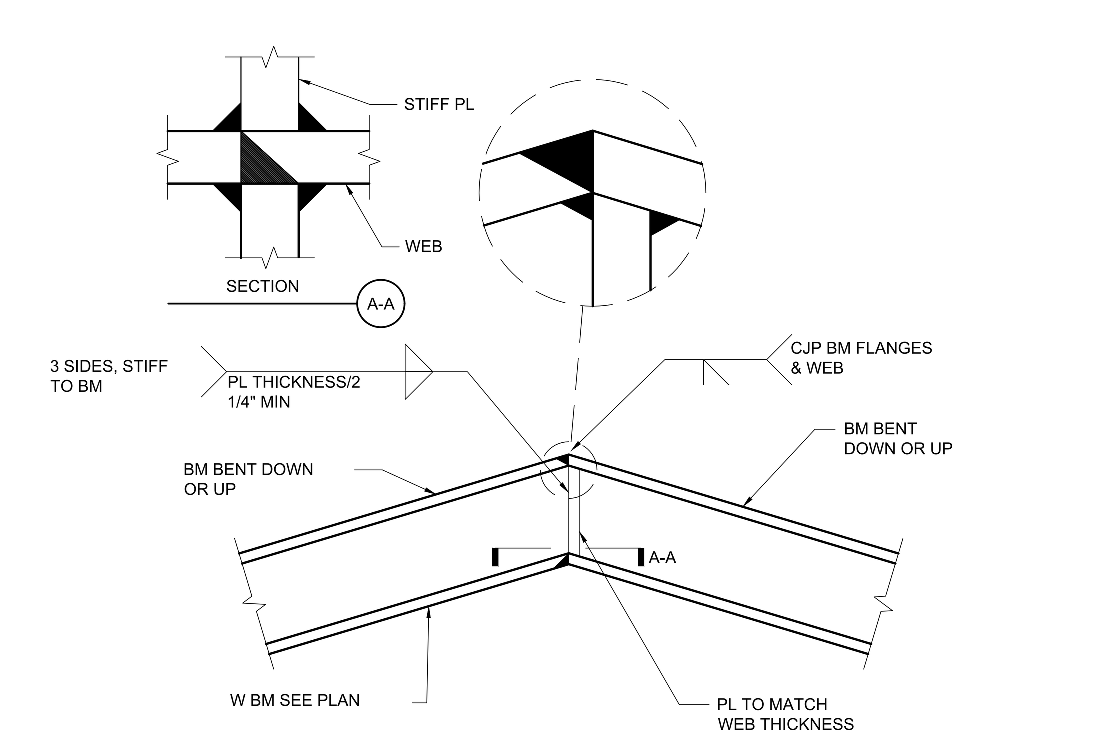


3 BEAM BOTTOM FLANGE BRACING DETAIL @ SLRS
3/4" = 1'-0"

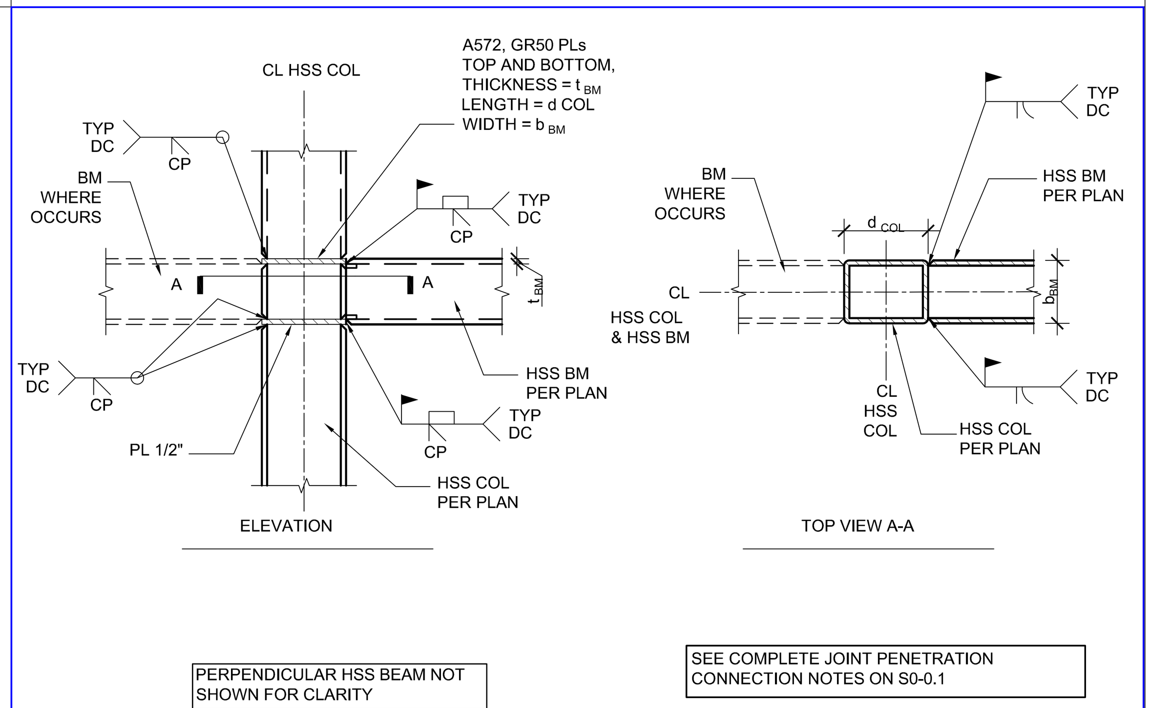




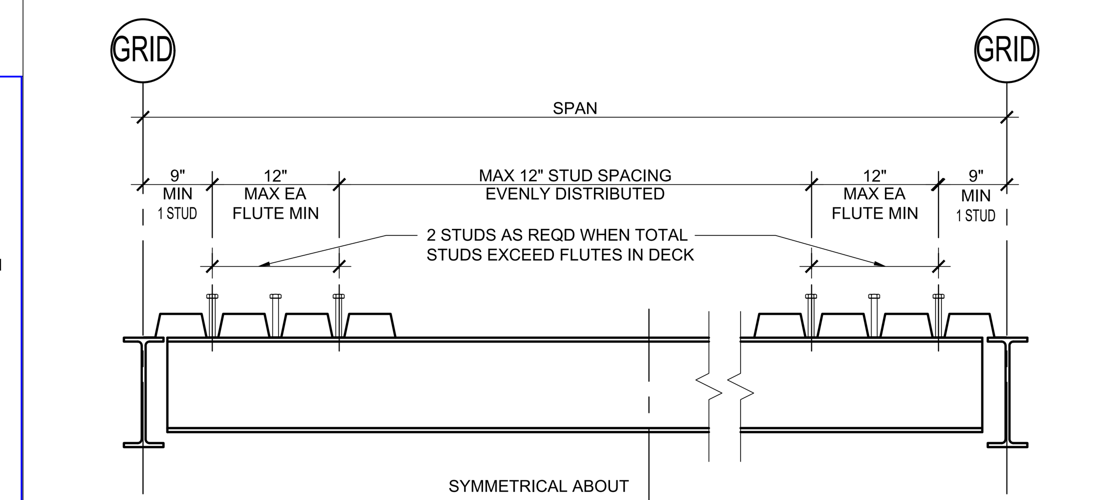
5 TYPICAL BENT STRINGERS
1" = 1'-0"



6 TYPICAL BENT BEAM
1" = 1'-0"

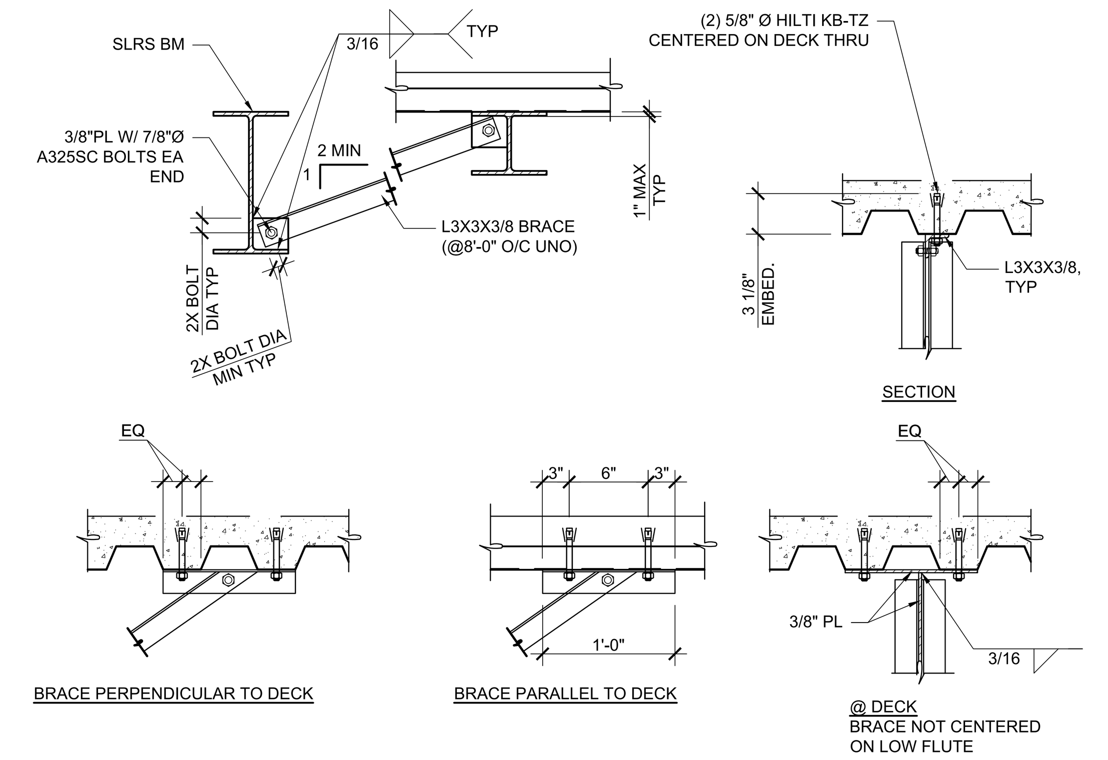


7 TYPICAL HSS MOMENT CONNECTION
NTS

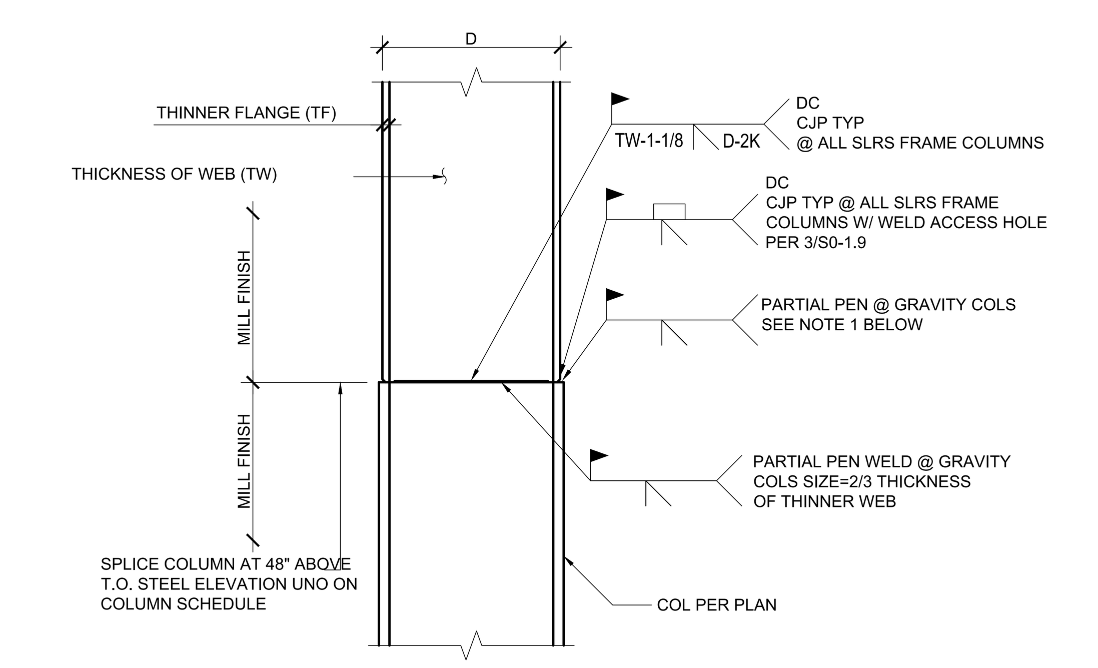


NOTES:
1. ALL WELDED STUDS SHALL BE 3/4"Ø x AS REQUIRED.
2. SPACE STUDS EVENLY ALONG LENGTH OF SPAN @ 12" (MAX) CENTERS.
3. DISTRIBUTE REMAINDER OF STUDS SYMMETRICAL FROM EACH END WITH ONE STUD EACH FLUTE, OR AT 6" O.C.
4. WHERE DECKING IS PARALLEL TO BEAM, DISTRIBUTE STUDS SYMMETRICALLY IN SIMILAR MANNER TO THAT SHOWN AND NOTED IN DETAIL ABOVE.
5. CUT DECKING AND PROVIDE GAP AS REQUIRED TO MAINTAIN STUD CENTERING. (ADD 16 GA. (MIN) CLOSURES AS REQUIRED).

8 WELDED STUDS
1" = 1'-0"

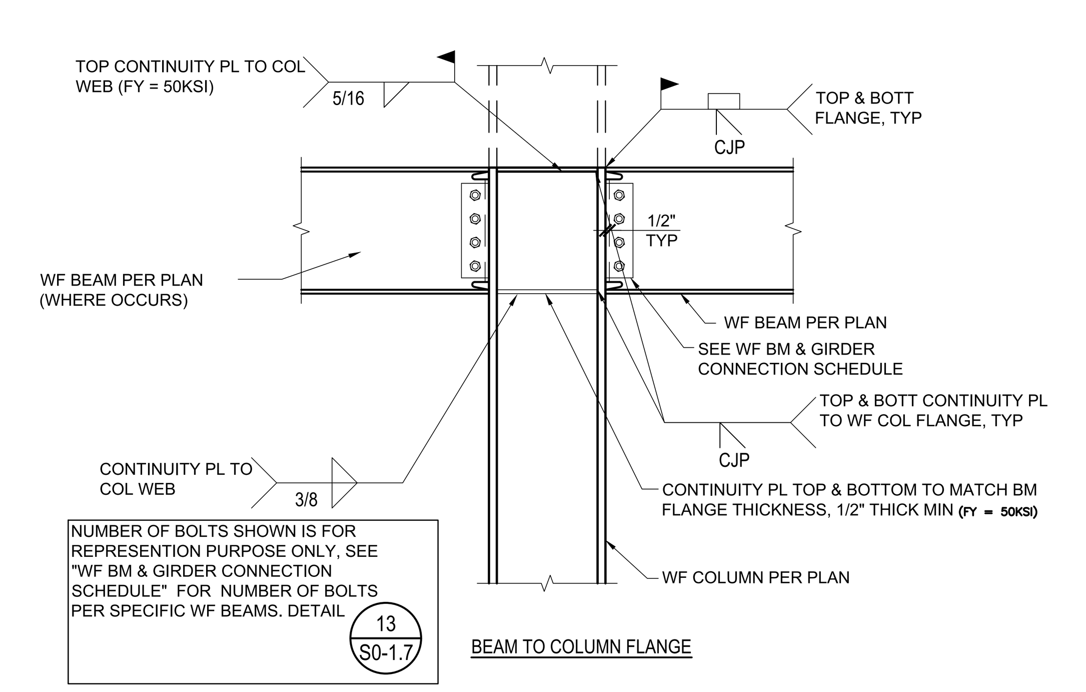


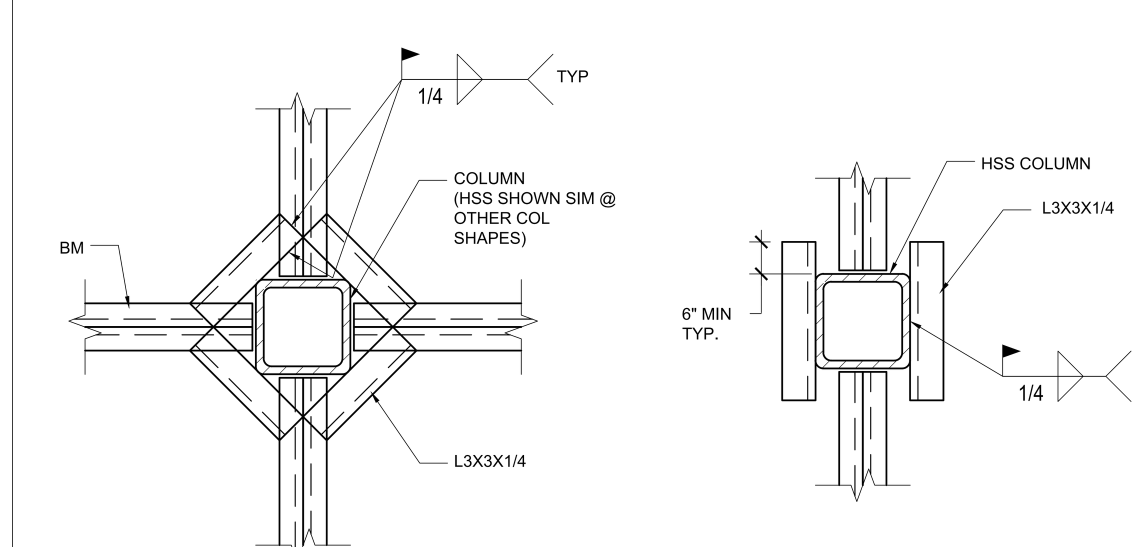
9 BEAM BOTTOM FLANGE BRACE DETAILS
1" = 1'-0"

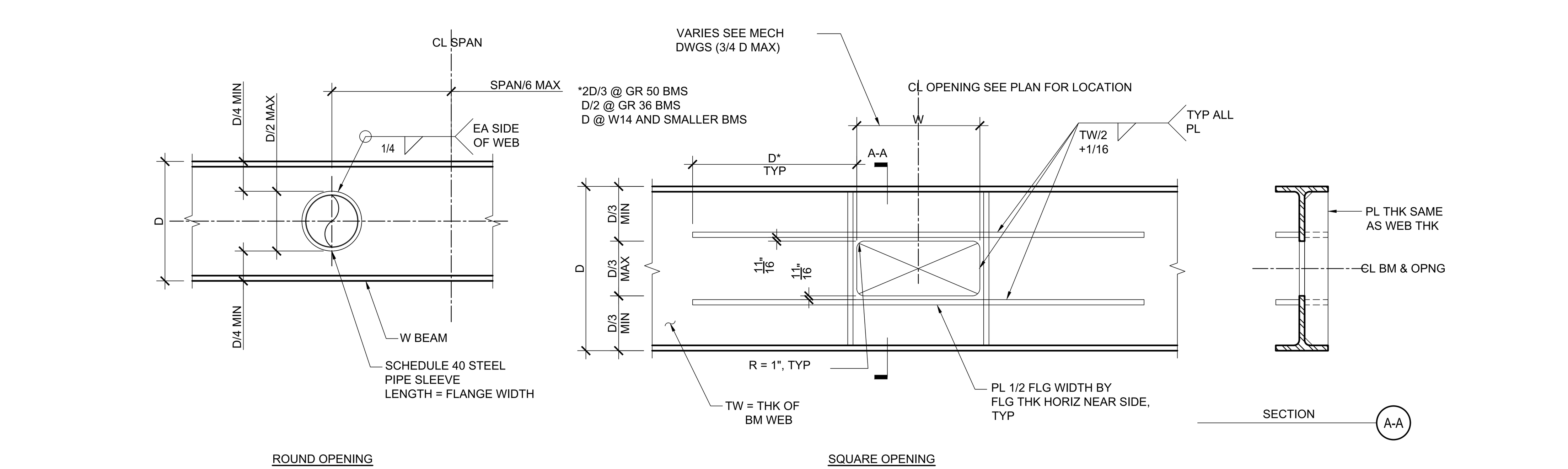


NOTES:
1. PARTIAL PEN WELD SIZE : TF/6 +1/8" FOR TF < 1 1/4"; TF/2 FOR TF ≤ 1 1/4" UNO.
2. STEEL FABRICATOR TO DESIGN AND PROVIDE ALL REQUIRED ERRECTION PL'S.
3. FOR FINISH SURFACES AT COLUMN ENDS SEE AISC "CODE OF STANDARD PRACTICE" SECTION 6.2.2.

10 TYPICAL COLUMN SPLICE UNO
3/4" = 1'-0"

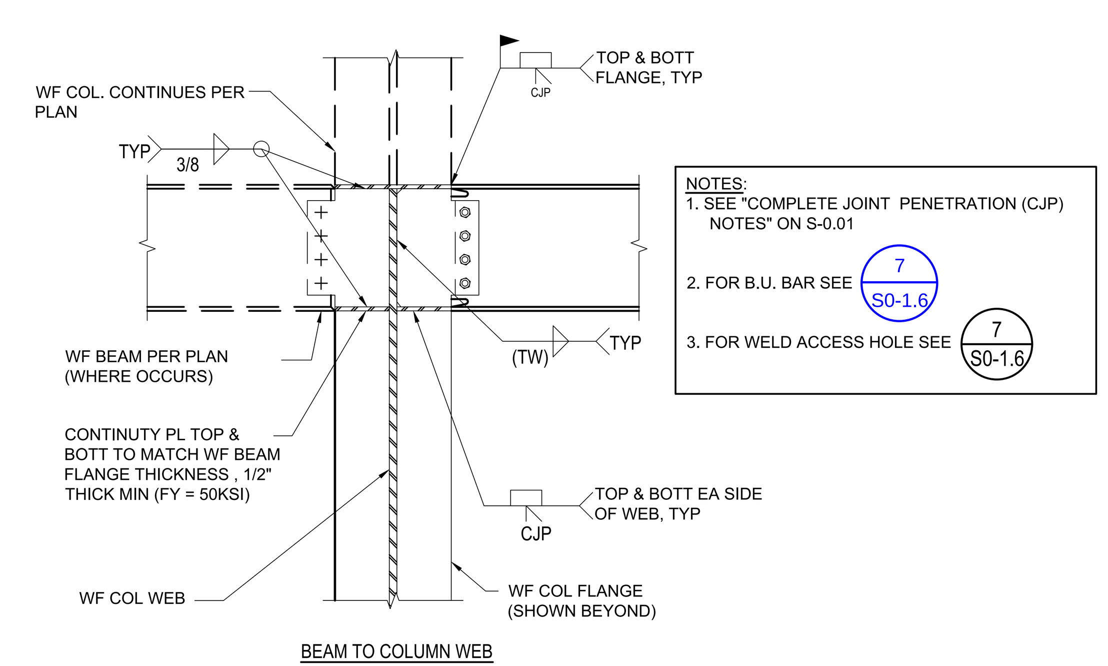




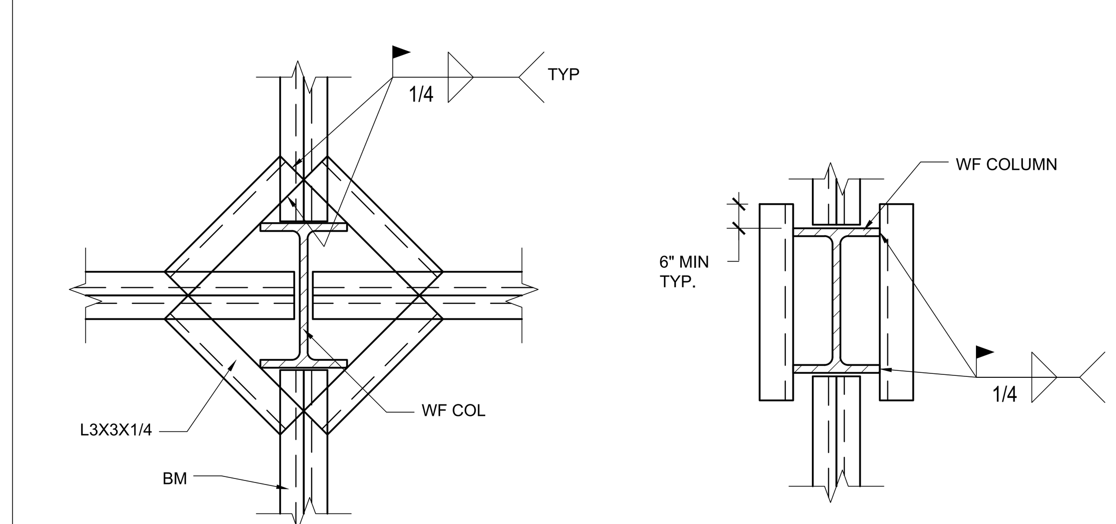


NOTES:
1. THIS DETAIL MAY NOT BE USED WITHOUT PRIOR WRITTEN APPROVAL OF SEOR.
2. CONTINUITY PLATES AND STIFFENERS SHALL BE 1/2 FLANGE WIDTH; GRADE SHALL MATCH BASE BEAM.
3. FLANGE & STIFFENER NOT REQD FOR 4" SQ HOLES & LESS IN W12 OR DEEPER.
4. WHERE ROUND OPENINGS ARE D/6 OR LESS, REINFORCING SHOWN IS NOT REQUIRED.

13 TYPICAL HOLE THRU STEEL BEAM WEB
NTS



15 TYP CANTILEVER / MOMENT BEAM CONNECTION
NTS



16 TYPICAL DECK SUPPORT AT COLUMN
NTS

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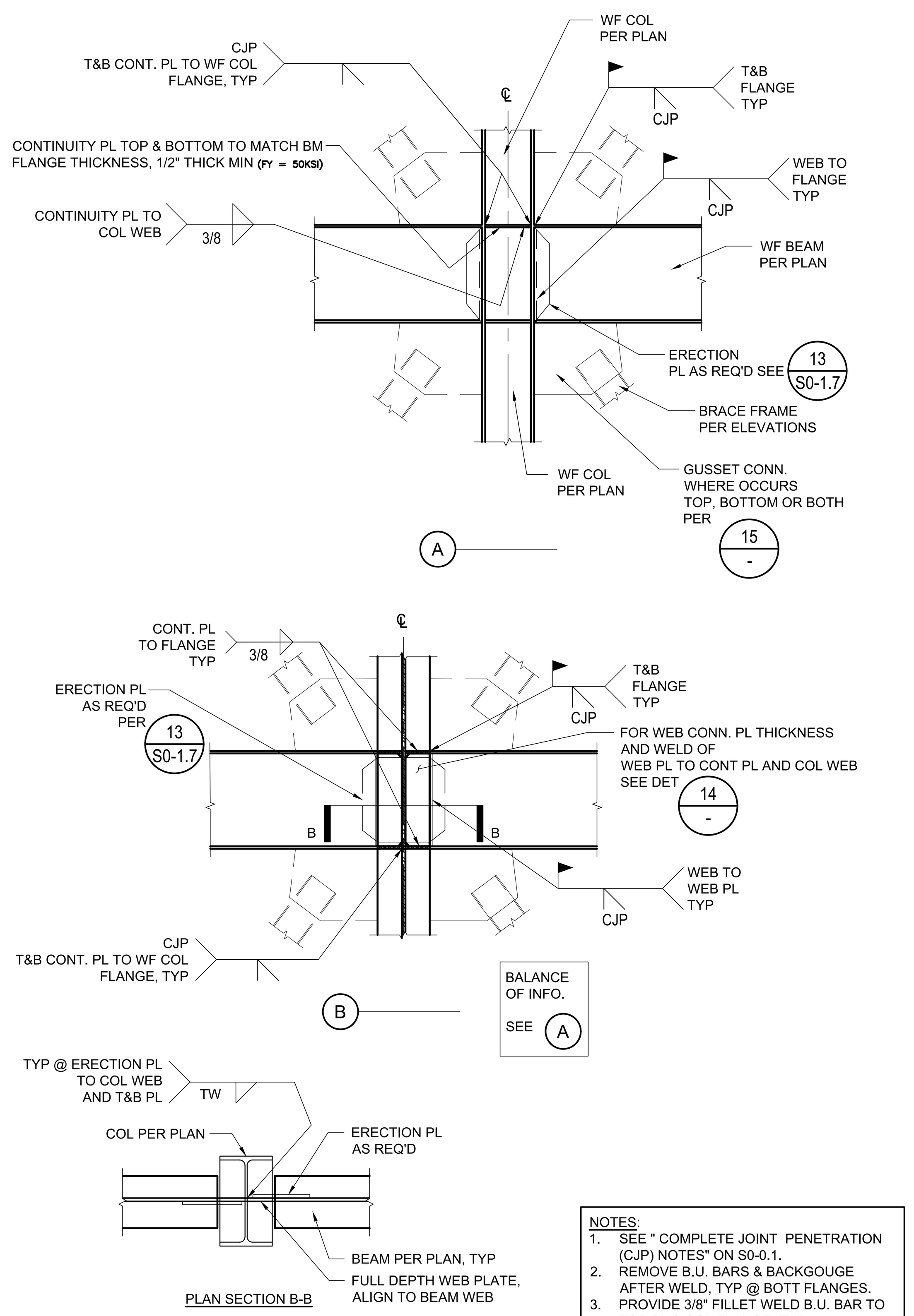
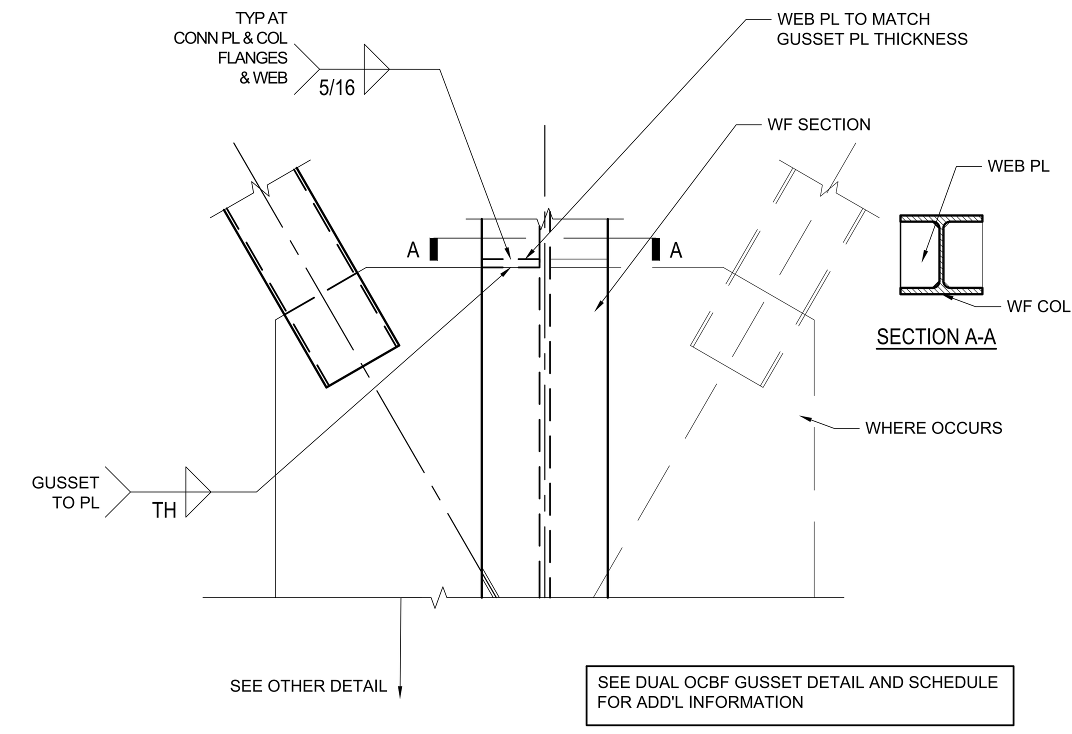


NOTES:
1. SEE " COMPLETE JOINT PENETRATION (CJP) NOTES" ON S0-0.1.
2. REMOVE B.U. BARS & BACKGOUGE AFTER WELD, TYP @ BOTT FLANGES.
3. PROVIDE 3/8" FILLET WELD B.U. BAR TO TOP PL & COL FLANGE, TYP

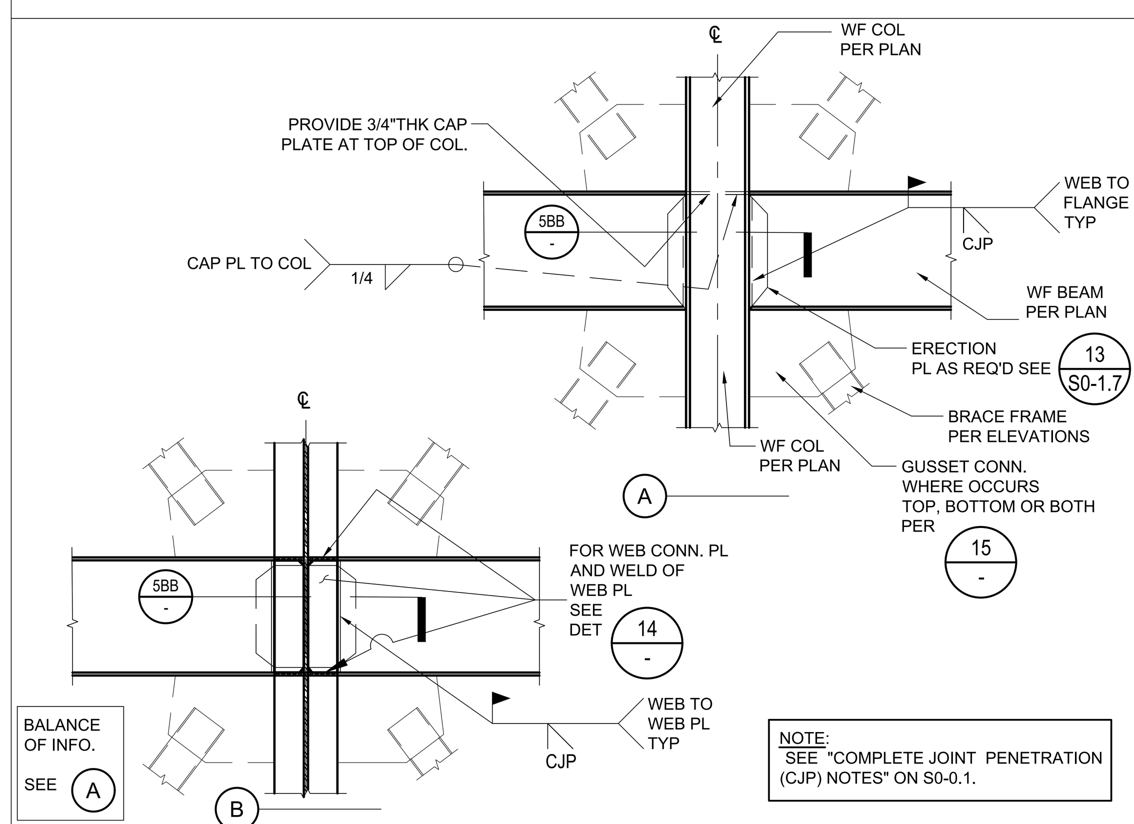
5 OCBF BM TO COL (FIXED CONN.)
NTS

2 NOT USED
NTS



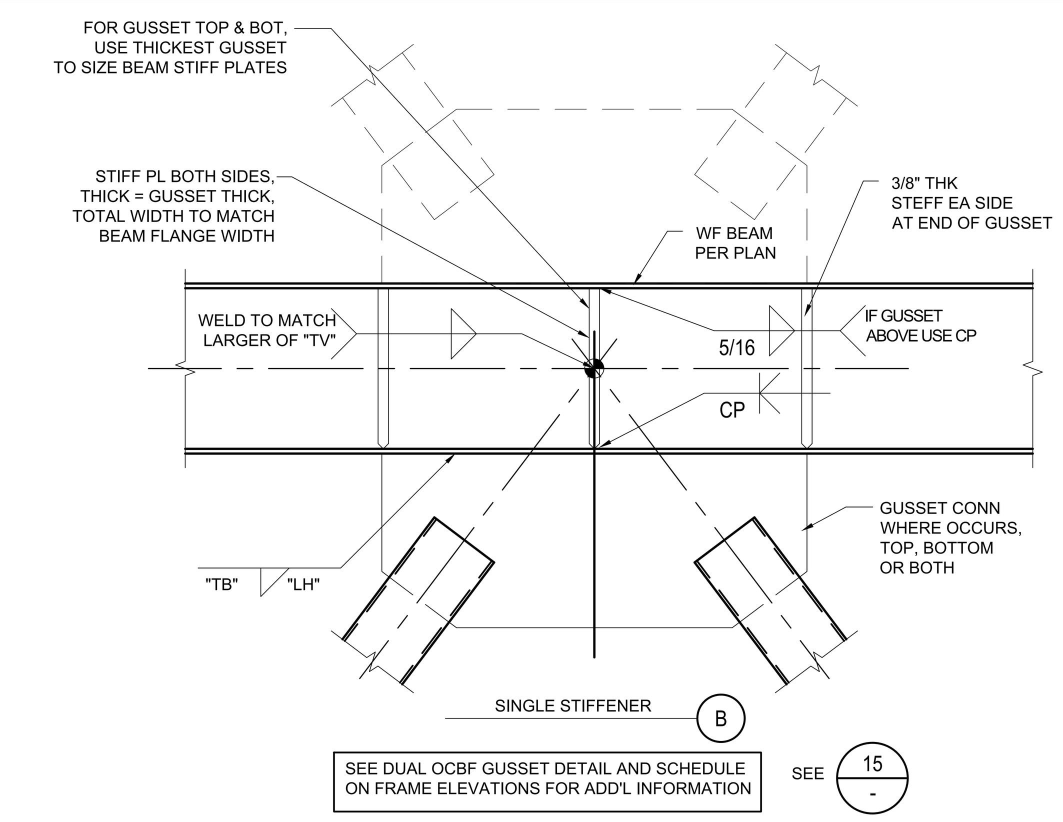
3 GUSSET CONNECTION TO WF WEB
NTS

4 NOT USED
NTS



NOTE:
SEE "COMPLETE JOINT PENETRATION (CJP) NOTES" ON S0-0.1.

6 OCBF BM TO COL(PINNED CONN.)
NTS



7 TYPCIAL OCBF GUSSET TO BEAM
NTS

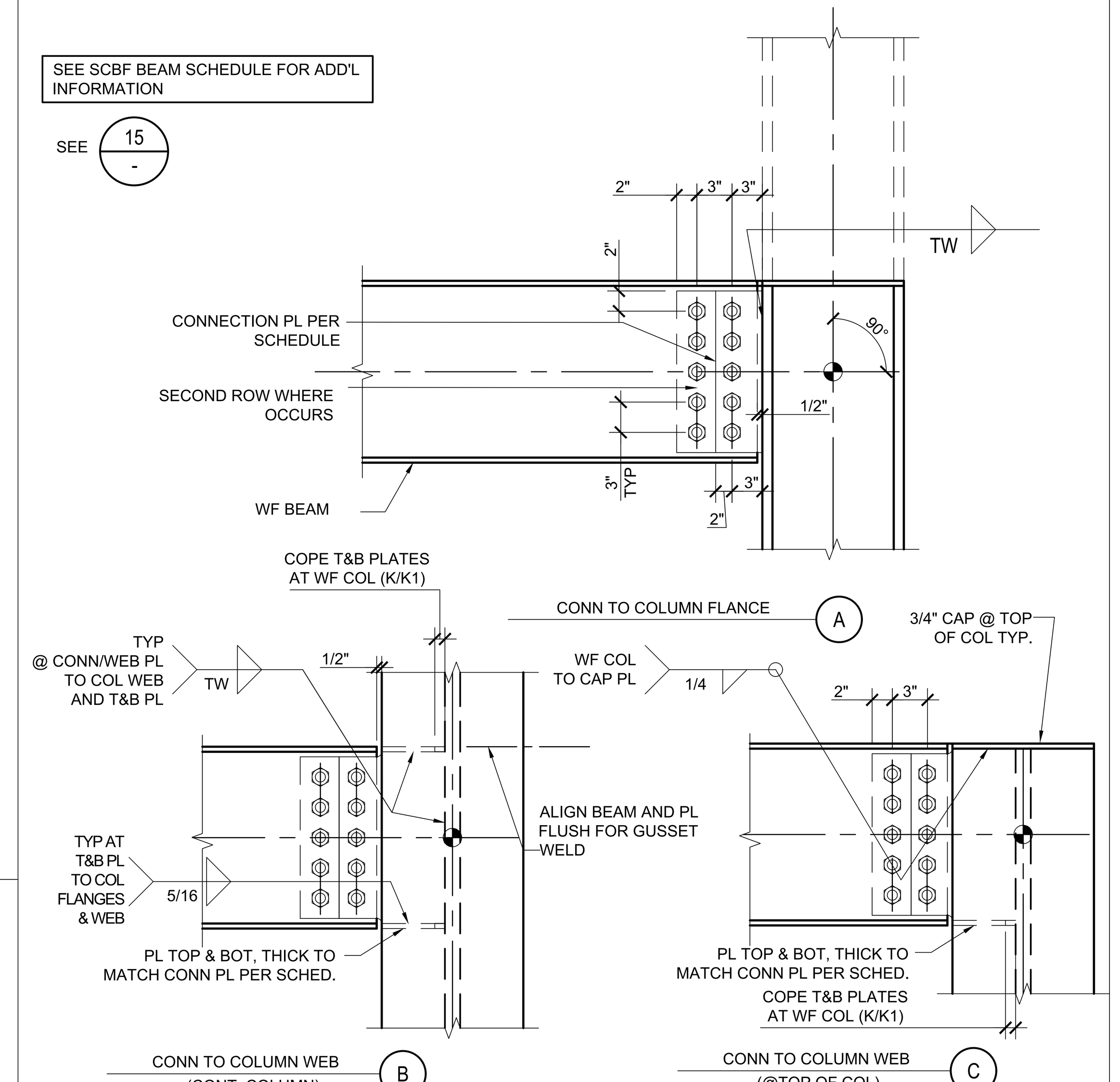
8 NOT USED
NTS

9 NOT USED
NTS

13 NOT USED
NTS

SEE SCBF BEAM SCHEDULE FOR ADD'L INFORMATION

SEE 15



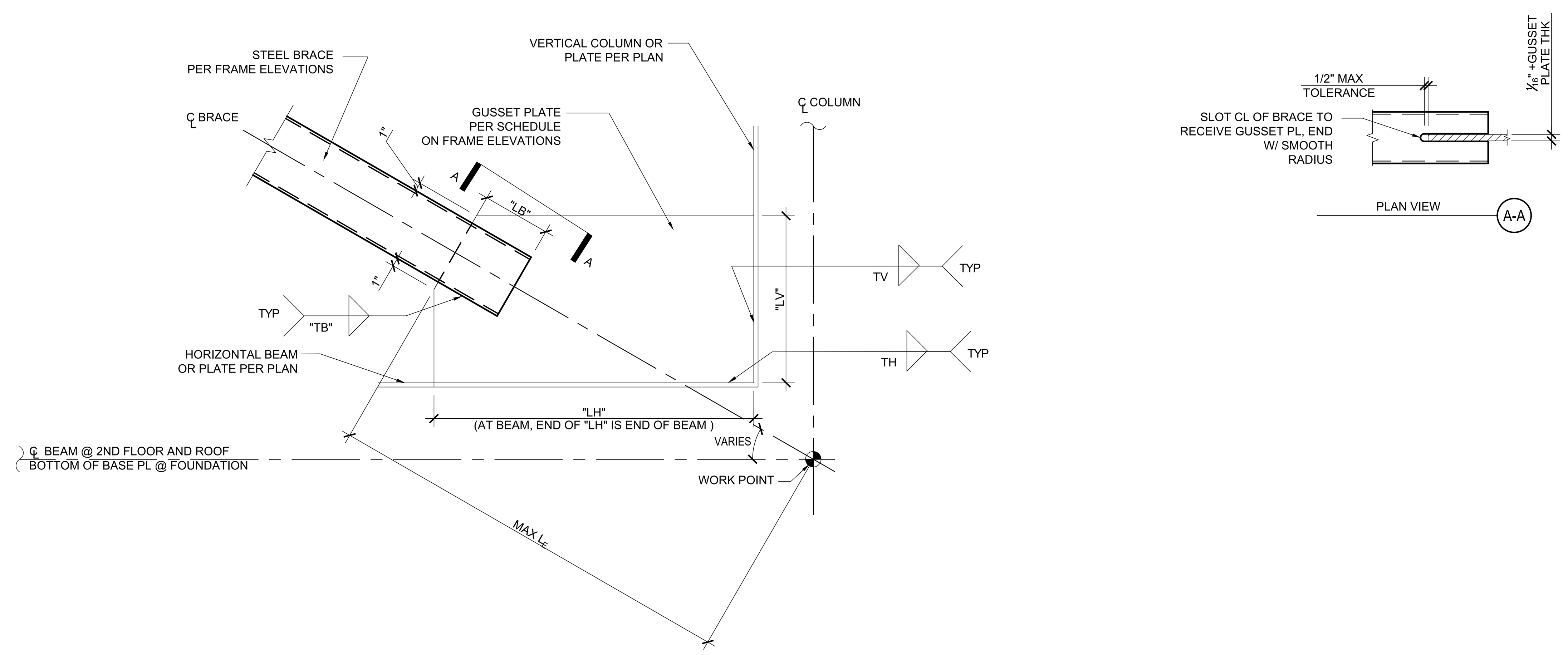
SEE CONDITION A FOR INFO NOT NOTED

OCBF BM CONN SCHEDULE

BEAM SIZE	NO. 1"Ø A490-SC BOLTS 1ST ROW	NO. 1"Ø A490-SC BOLTS 2ND ROW	CONN PL THICKNESS	WELD TW
W24x	6	6	1 1/8"	5/8"

NOTES
1. SPECIFY ERECTION PROCEDURES FOR FITTING AND WELDING OF THIS CONNECTION ON SHOP DRAWINGS.

14 TYPICAL OCBF BEAM TO COLUMN
NTS



SCBF NOTES
1. ALL DIMENSIONS ARE IN INCHES.
2. OCBF RELATED STEEL PLATES SHALL BE ASTM A572 GRADE 50, THIS INCLUDES GUSSETS, SIDE PLATES, STIFFENERS, SHEAR TABS, BASE PLATES, SPLICES, ETC.
3. REVIEW ALL GUSSET PLATE DETAILS ON THIS SHEET.
4. UNLESS OTHERWISE NOTED, THE TOLERANCE FOR WELDED LENGTHS SHOWN IN THIS TABLE ARE ± 5% OR 1/2" MAXIMUM.
5. WELDED LENGTHS LH AND LV SHOWN ARE MIN. LENGTHS, REVIEW THE GUSSET GEOMETRY FOR ACTUAL WELDED LENGTH.
6. THE WELD LENGTHS LH AND LV ACCOUNT FOR GAPS NOTED ON DETAILS, BACKUP BARS MAY BE USED AND LEFT IN PLACE TO AID IN LAYING WELDS AT THESE AREAS.
7. WORK POINT LOCATIONS ARE NOTED ON FRAME ELEVATIONS AND DETAILS, AND ARE BASED ON AS BUILT CENTERLINE DIMENSIONS OF ERECTED AND FABRICATED MEMBERS. THE CONTRACTOR SHALL FIELD MEASURE ERECTED FRAME GEOMETRY TO VERIFY THAT THE REQUIRED GUSSET AND BRACE TOLERANCES HAVE BEEN ACHIEVED. THE TOLERANCE FOR A BRACE CENTERLINE MISSING A WORKPOINT IS ±3/4" IN THE PLANE OF THE BRACE. NOTIFY THE INSPECTOR AND ENGINEER OF RECORD OF ALL NONCOMPLIANT CONNECTIONS.
8. CLEARLY NOTE ERECTION AIDS SUCH AS TEMPORARY BOLTS AND TACK WELDS ON SHOP DWGS FOR OCBF CONN.
9. DO NOT WELD ITEMS TO OR CUT PASS THROUGH HOLES AT SCBF GUSSETS, BRACES, BEAMS OR COLUMNS UNLESS SPECIFICALLY DETAILED OR APPROVED BY THE ENGINEER OF RECORD.

15 TYPICAL STEEL OCBF GUSSET
NTS

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APP. 03-119686 INC:
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DATE: 10/14/2019

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REGISTERED PROFESSIONAL ENGINEER No. S4029 Exp. 9/30/20 STRUCTURAL STATE OF CALIFORNIA
consultant

COMPTON COLLEGE STUDENT SERVICES BLDG.

COMPTON COMMUNITY COLLEGE DISTRICT
1111 E. ARTESIA BLVD.
COMPTON, CA 90221

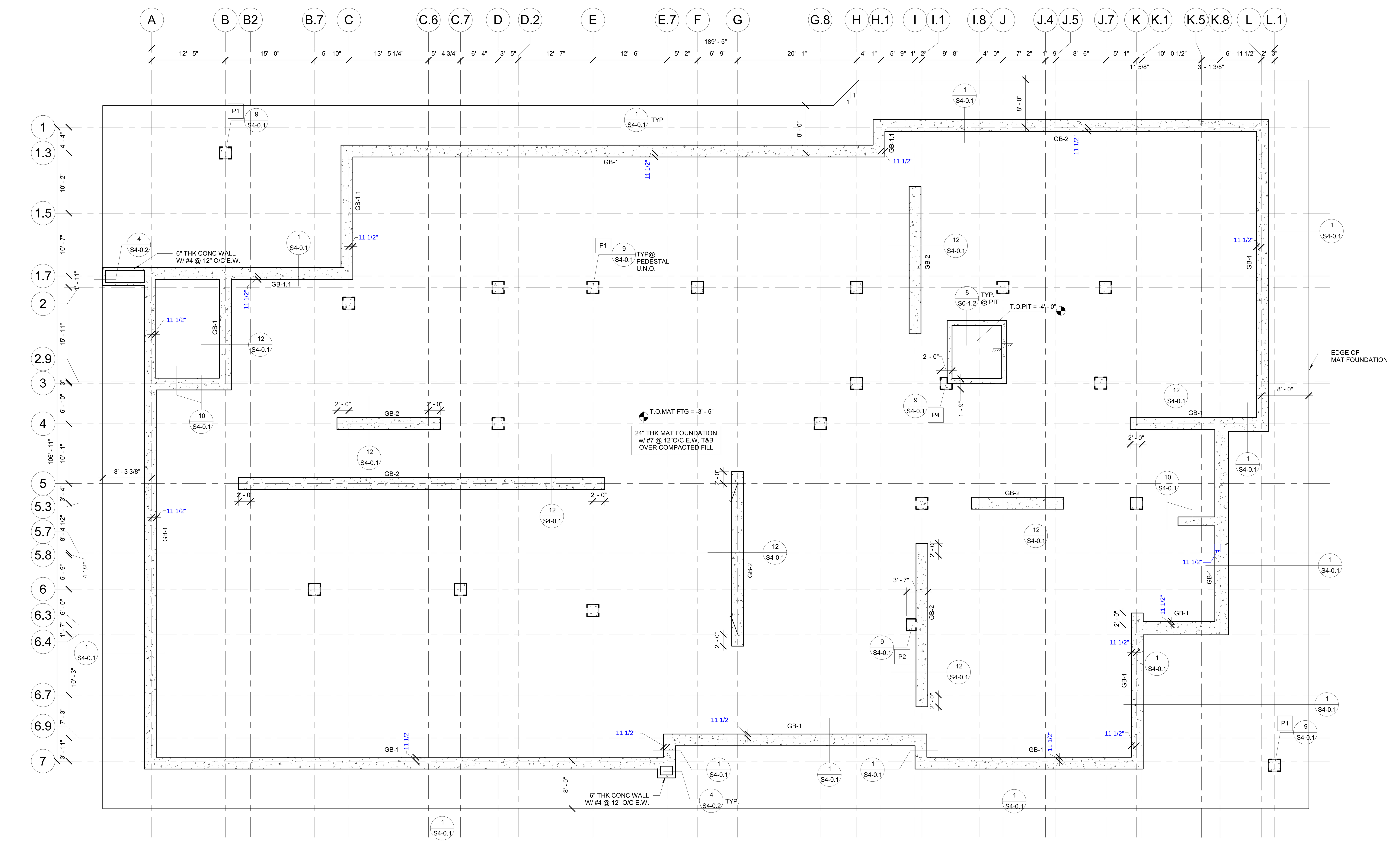
owner

tBP project number : 20987.00	
file name:	
drawn by: tBP	checked by: T. HALL
date: 9.3.2019	

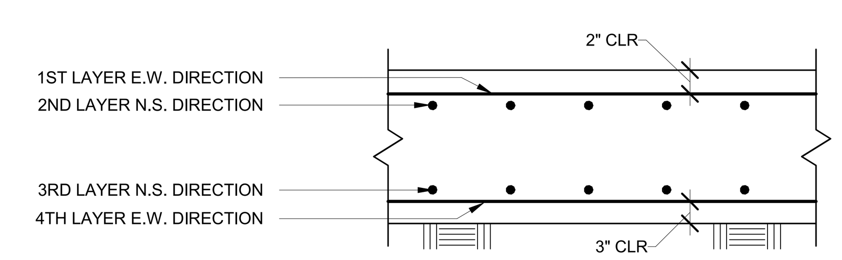
Rev: date: description:

drawing title:
TYPICAL DETAILS

drawing no.:
S0-1.10



1 MAT FOUNDATION PLAN
SCALE: 1/8" = 1'-0"



MAT FTG REINF. LAYOUT

MAT FOUNDATION NOTES:

1. FOR GENERAL NOTES, SEE S0-0.0 SERIES.
2. FOR TYPICAL DETAILS, SEE S0-1.0 SERIES.
3. DRAWING DATUM = 0'-0": REF. ELEV. +/61.30' @ GROUND FLOOR FINISH FLOOR (SEE CIVIL & ARCH FOR ACTUAL ELEVATION).
4. UNDERGROUND UTILITY NOTE:
   CONTRACTOR SHALL COORDINATE ALL NEW AND EXISTING UTILITIES PRIOR TO ANY FOUNDATION WORK.
5. GB-# INDICATES GRADE BEAM. SEE GRADE BEAM SCHEDULE FOR ADDITIONAL INFO.
   GRADE BEAM TO BE CENTERED ON GRID-LINE UNLESS NOTED OTHERWISE.

MARK	MIN. WIDTH	DEPTH (MIN)	TOP BARS	BOTTOM BARS	TIES
			(SEE ELEV. FOR ADDT'L REBAR AT 2ND LAYER WHERE OCCURS)		
GB-1	24"	53"	(3) #10	(3) #10	#4 @ 10"O/C
GB-1.1	24"	53"	(3) #10	(3) #10	#4 @ 6"O/C
GB-2	24"	53"	(3) #10	(6) #10	#4 @ 10"O/C

6. DENOTES STEP IN MAT SLAB.SEE DETAIL 12/S0-1.2
7. P# DENOTES PILASTER. SEE DETAIL 9/S4-0.1

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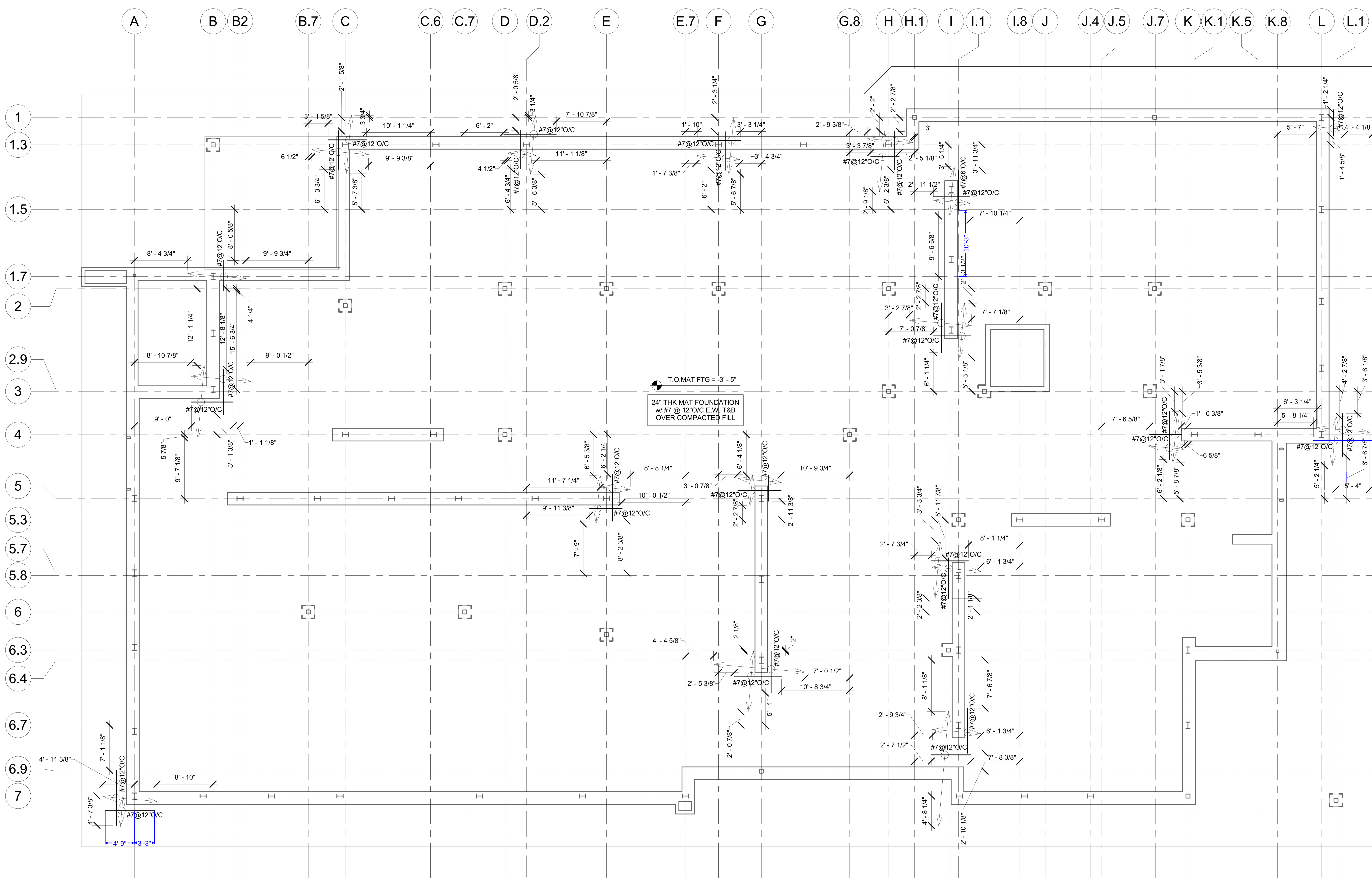
owner

tBP project number: 20987.00
file name: CC_SS_Central.RVT
drawn by: A.N. checked by: A.Q.
date: 9.3.2019

rev:	date:	description:

drawing title:
MAT FOUNDATION PLAN

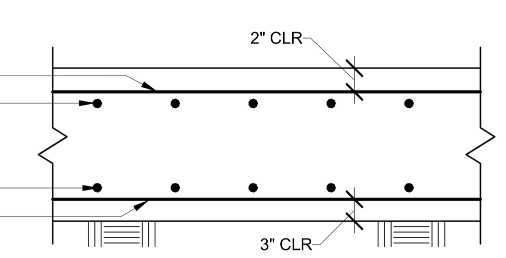
drawing no.:
S-2.1



1 MAT FOUNDATION ADDITIONAL TOP BARS

SCALE: 1/8" = 1'-0"

NORTH



MAT FTG REINF. LAYOUT

MAT FOUNDATION NOTES:

1. FOR GENERAL NOTES, SEE S0-0.0 SERIES.
2. FOR TYPICAL DETAILS, SEE S0-1.0 SERIES.
3. SEE SHEET S-2.1 FOR TYPICAL SLAB REINFORCEMENT & ADDT'L INFORMATION. THE REINFORCEMENT SHOWN IN THIS SHEET IS ADDITIONAL REINFORCEMENT.

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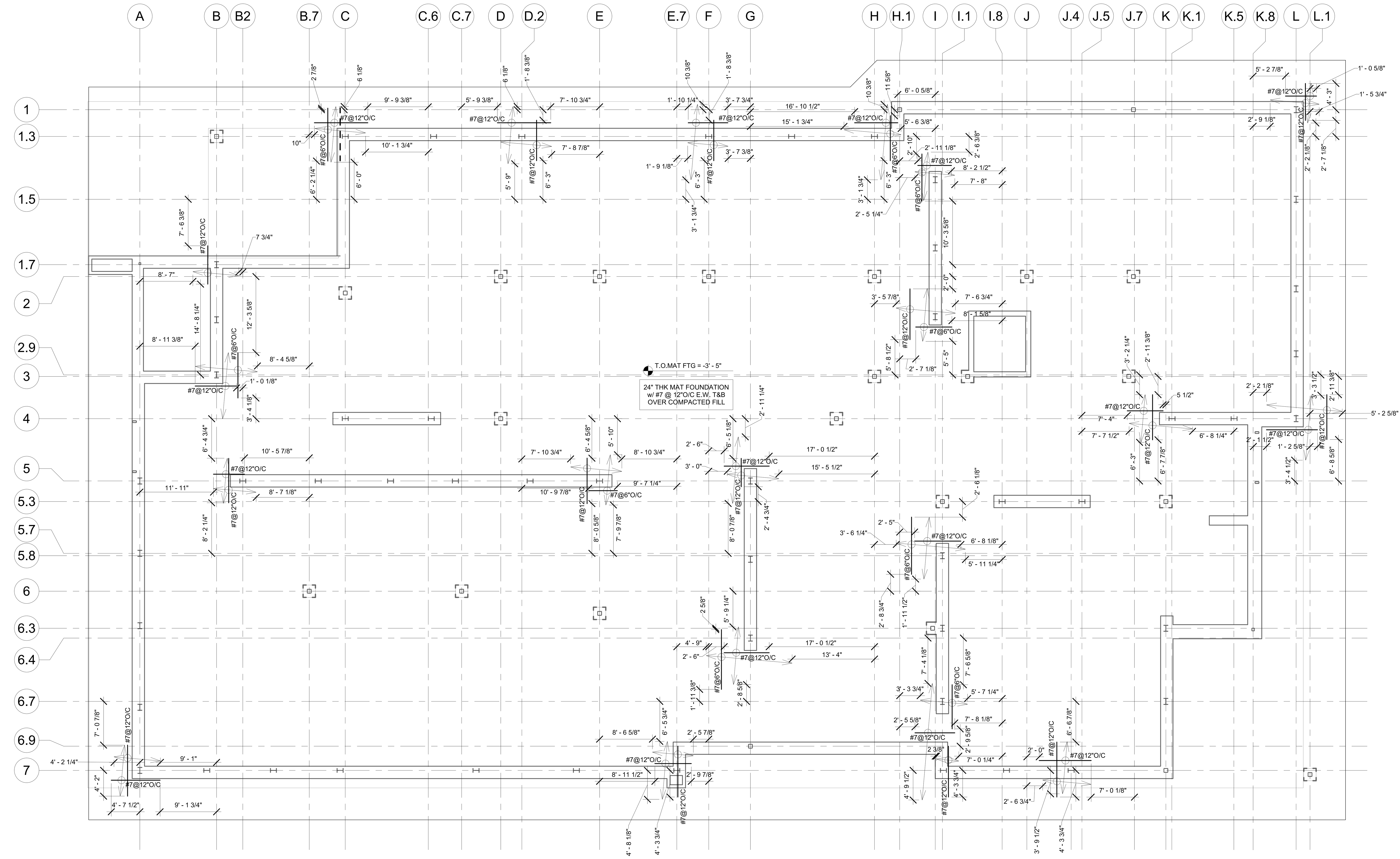
date: 9.3.2019

rev:	date:	description:

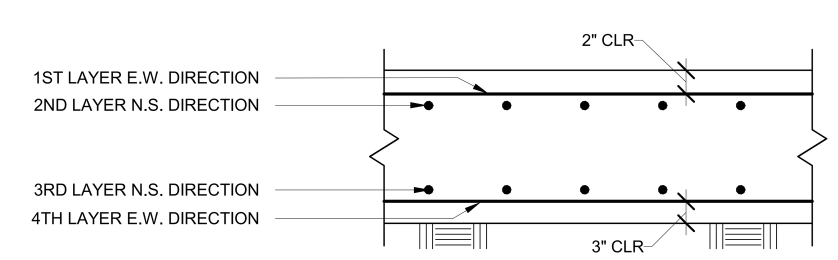
drawing title:
MAT FOUNDATION PLAN ADDT'L TOP BARS

drawing no.:
S-2.1A



1 MAT FOUNDATION ADDITIONAL BOTTOM BARS
SCALE: 1/8" = 1'-0"

NORTH



MAT FTG REINF. LAYOUT

MAT FOUNDATION NOTES:

1. FOR GENERAL NOTES, SEE S0-0.0 SERIES.
2. FOR TYPICAL DETAILS, SEE S0-1.0 SERIES.
3. SEE SHEET S-2.1 FOR TYPICAL SLAB REINFORCEMENT & ADDT'L INFORMATION. THE REINFORCEMENT SHOWN IN THIS SHEET IS ADDITIONAL REINFORCEMENT.

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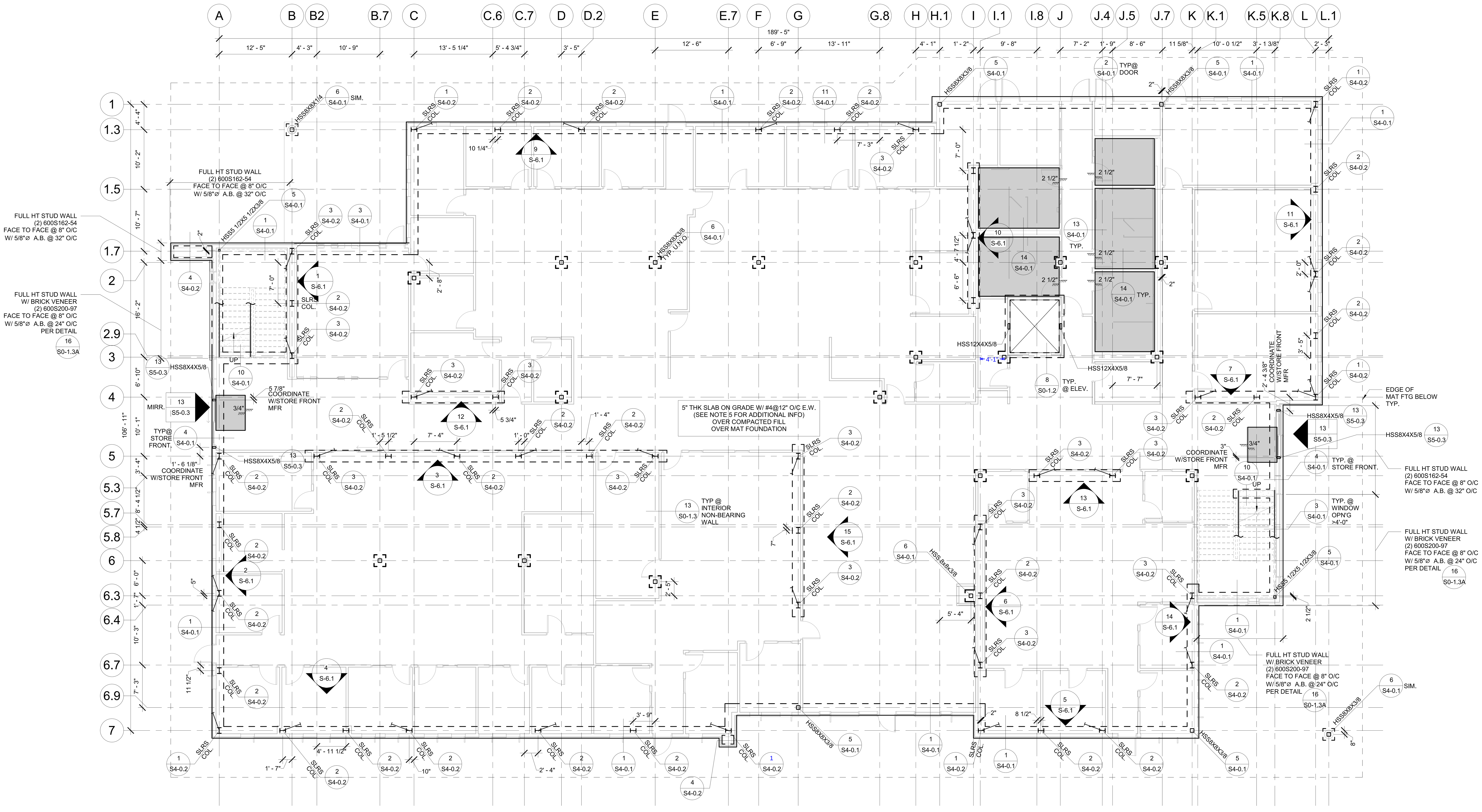
date: 9.3.2019

rev: date: description:

drawing title:
MAT FOUNDATION PLAN
ADDT'L BOTTOM BARS

drawing no.:
S-2.1B



1 GROUND SLAB PLAN
SCALE: 1/8" = 1'-0"

NORTH

FOUNDATION NOTES:

1. FOR GENERAL NOTES, SEE S0-0.0 SERIES.
2. FOR TYPICAL DETAILS, SEE S0-1.0 SERIES.
3. SEE DETAIL ON SHEETS S0-1.3, S0-1.3A AND S0-1.4 FOR ALL INTERIOR METAL STUDS WALL CONSTRUCTION.
4. DRAWING DATUM = 0'-0": REF. ELEV. +/61.30' @ GROUND FLOOR FINISH FLOOR (SEE CIVIL & ARCH FOR ACTUAL ELEVATION).
5. SLAB SHALL BE UNDERLAYED BY 15 MIL VAPOR BARRIER OVER 4" CLEAN AGGREGATE (OR 4" CLEAN SAND) OVER COMPACTED FILL. CONTACTOR TO PROTECT VAPOR BARRIER FROM PUNTURE.
6. NOT USED.
7. FOR GRAVITY BASE PLATE DETAIL CALLOUT, SEE DETAIL 2/S0-1.7
8. FOR SLAB SAWCUT AND CONTROL JOINT, SEE DETAIL 16/S0-1.1
9. UNDERGROUND UTILITY NOTE:
   CONTRACTOR SHALL COORDINATE ALL NEW AND EXISTING UTILITIES PRIOR TO ANY FOUNDATION WORK.
10. NOT USED.
11. INDICATES DEPRESSED SLAB. SEE DETAIL 9/S0-1.1 REFER TO ARCHT'L DRAWINGS FOR ADDITIONAL INFORMATION.
12. SHOWS ELEVATION OF STEEL FRAME.
13. FOR SLRS COLUMNS ,REFER TO FRAME ELEVATIONS ON S-6.1 FOR ADDITIONAL INFORMATION.
14. DENOTES OCBF BRACE SEE FRAME ELEVATION ON S-6.1 FOR ADDITIONAL INFO.

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STUDENT SERVICES BLDG.

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COMPTON, CA 90221

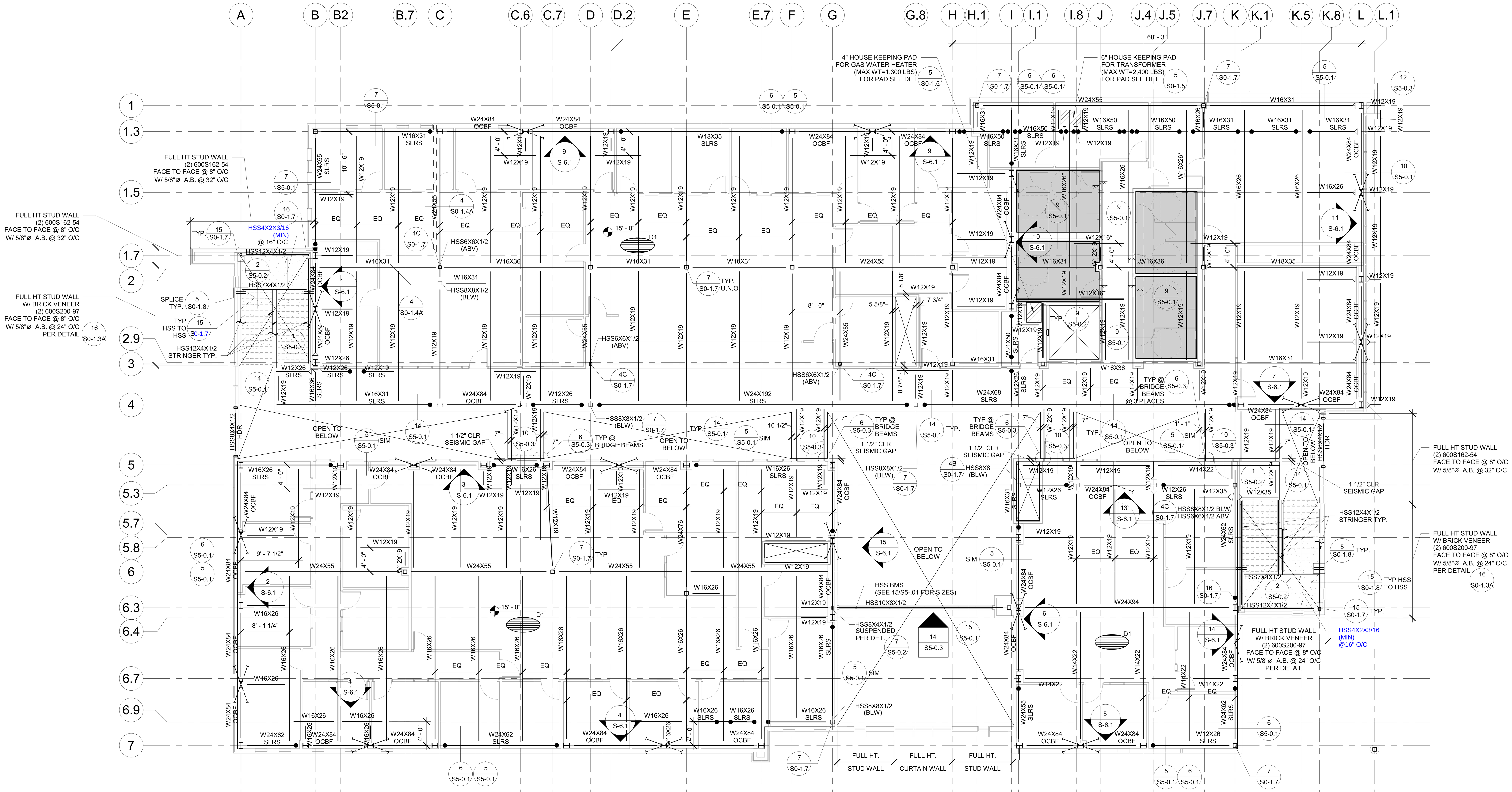
owner

tBP project number: 20987.00
file name: CC_SS_Central.RVT
drawn by: A.N. checked by: A.Q.
date: 9.3.2019

rev:	date:	description:

drawing title:
GROUND FLOOR SLAB PLAN

drawing no.:
S-2.2



1 2ND FLOOR FRAMING PLAN
SCALE: 1/8" = 1'-0"

NORTH

FLOOR FRAMING NOTES:

1. FOR GENERAL NOTES, SEE S0-0.0 SERIES.
2. FOR TYPICAL DETAILS, SEE S0-1.0 SERIES.
3. ALL STEEL BEAMS SHALL HAVE WELDED STUDS, SEE DETAIL 8/S0-1.8
4. METAL DECK W/ LT. WT. CONC. SEE 5/S0-1.6 FOR ADDITIONAL INFORMATION.
5. TOS = 14'-6 1/2" TYP. UNO
6. FOR TYPICAL BEAM TO BEAM CONNECTIONS, SEE DETAIL 13/S0-1.7
7. CANTILEVER BEAM MOMENT CONNECTION SEE DETAIL 1/S0-1.8
8. HSS COLUMNS: SEE S-2.2 FOR SIZES NOT SHOWN.
9. BEAM SPLICE. SEE DETAIL 6/S0-1.8
10. INDICATES BOLT CONNECTION AT SLRS SEE DETAIL 12/S0-1.7
    INDICATES (3) ROWS OF A490SC, ●●●
    INDICATES (2) ROWS OF A490SC, ●●
    NDICATES (1) ROW OF A490SC, ●
11. INDICATES DEPRESSED SLAB. SEE DETAIL 3/S0-1.6 REFER TO ARCHT'L DRAWINGS FOR ADDITIONAL INFORMATION.
12. FOR BEAMS MARKED W/ "*" NEXT TO DESIGNATION, DENOTES DEPRESSED BEAM WITH WT SECTION ON TOP PER 8/S0-1.7
13. SHOWS ELEVATION OF STEEL FRAME
14. AT ALL SLRS BEAMS (DRAG BEAMS, SMRF BEAMS, OCBF BEAMS) PROVIDE BRACING PER 3/S0-1.8 @ 8'-0" O/C MAX
15. SEE ARCHT'L/MEP DRAWINGS FOR ACTUAL LOCATIONS AND SIZE OF OPENINGS.
16. SECONDARY BEAMS SHALL BE SPACED EQUALLY UNLESS NOTED OTHERWISE.
17. DENOTES OCBF BRACE ABOVE (DASHED DENOTES BELOW) SEE FRAME ELEVATIONS ON S-6.1 FOR ADDITIONAL INFO.

METAL DECK SCHEDULE

DECK MARK	TYPE	GAGE	I (IN4/FT)	S (TOP +) (IN3/FT)	S (BOT -) (IN3/FT)	TOTAL DEPTH(IN)	CONC FILL TYPE	REINF.	WELDED STUDS
D1	VERCO W3 IAPMO 0212	18	1.213	0.752	0.768	5 1/2"	LWC	#3@12"O/C E.W.	3/4 DIAM. X 5" LONG @12"O/C
D2	VERCO W2 IAPMO 0212	18	1.213	0.752	0.768	4 1/2"	LWC	#3@12"O/C E.W.	3/4 DIAM. X 4" LONG @12"O/C

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Project No.: D322

REGISTERED PROFESSIONAL ENGINEER
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No. S4029
Exp. 9/30/20
STRUCTURAL
STATE OF CALIFORNIA
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COMPTON COLLEGE
STUDENT SERVICES BLDG.

COMPTON COMMUNITY COLLEGE DISTRICT
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COMPTON, CA 90221
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tBP project number: 20987.00
file name: CC_SS_Central.RVT
drawn by: A.N. checked by: A.Q.
date: 9.3.2019
rev: date: description:

drawing title:
SECOND FLOOR FRAMING PLAN

drawing no.:
S-3.1

1 ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"

NORTH

ROOF FRAMING NOTES:

1. FOR GENERAL NOTES, SEE S0-0.0 SERIES.
2. FOR TYPICAL DETAILS, SEE S0-1.0SERIES.
3. NOT USED
4. METAL DECK. SEE 1/S0-1.5 FOR ADDITIONAL INFORMATION.
5. TOS = VARIES. SEE PLAN & VERIFY WITH ARCHT'L DRAWINGS REFER TO ARCHT'L FOR ROOF SLOPES
6. FOR TYPICAL BEAM TO BEAM CONNECTIONS, SEE DETAIL 13/S0-1.7
7. CANTILEVER BEAM MOMENT CONNECTION SEE DETAIL 1/S0-1.8
8. HSS COLUMNS: SEE S-2.2 FOR SIZES.
9. BEAM SPLICE. SEE DETAIL 6/S0-1.8
10. INDICATES BOLT CONNECTION AT SLRS SEE DETAIL 12/S0-1.7
INDICATES (3) ROWS OF A490SC,
INDICATES (2) ROWS OF A490SC,
NDICATES (1) ROW OF A490SC,
11. INDICATES APPROXIMATE LOCATION OF MECH UNIT CONC PAD. SEE DET. 9/S0-1.6 10/S0-1.6
REFER TO MECH AND ARCH DWGS FOR ADDITIONAL INFO.
12. FRAME OPENING IN ROOF FOR SKYLIGHTS,SOLAR TUBES & ROOF DRAINS,ETC
PER DETAIL 9/S0-1.5 U.N.O. SEE ARCHT'L/MEP DRAWINGS FOR ACTUAL LOCATIONS AND SIZE OF OPENINGS.
NOTE, WHERE OPENING FOR ROOF DRAIN OCCURS OVER STEEL BEAM, PROVIDE CLEAR OPENING IN SLAB AS NEEDED FOR ROOF DRAIN SUMP SUPPORT. SEE ARCHITECTURAL DETAIL 3/7.02.
13. INDICATES PIPE @ MECH SCREEN SEE DETAIL 8/S5-0.2
14. ALL STEEL BEAMS SHALL HAVE WELDED STUDS, SEE DETAIL 8/S0-1.8
15. AT ALL SLRS BEAMS (DRAG BEAMS, SMRF BEAMS, OCBF BEAMS) PROVIDE BRACING
PER 3/S0-1.8 @ 8'-0" O/C MAX

METAL DECK SCHEDULE

DECK MARK	TYPE	GAGE	I (IN4/FT)	S (TOP +) (IN3/FT)	S (BOT -) (IN3/FT)	TOTAL DEPTH(IN)	CONC FILL TYPE	REINF.	WELDED STUDS
D1	VERCO W3 IAPMO 0212	18	1.213	0.752	0.768	5 1/2"	LWC	#3@12"O/C E.W.	3/4 DIAM. X 5" LONG @12"O/C
D2	VERCO W2 IAPMO 0212	18	1.213	0.752	0.768	4 1/2"	LWC	#3@12"O/C E.W.	3/4 DIAM. X 4" LONG @12"O/C

16. SECONDARY BEAMS SHALL BE SPACED EQUALLY UNLESS NOTED OTHERWISE.
17. DENOTES OCBF BRACE BELOW. SEE FRAME ELEVATIONS ON S-6.1 FOR ADDITIONAL INFO.
18. # / # DENOTES MECH'L UNTIL WITH MAX WEIGHT. SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION (UNITS THAT WEIGHT LESS THAN 200 LBS SEE MECH'L DRAWINGS)

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YOUNG-KEUN NAM
No. S4029
Exp. 9/30/20
STRUCTURAL
STATE OF CALIFORNIA
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STUDENT SERVICES BLDG.

COMPTON COMMUNITY COLLEGE DISTRICT
1111 E. ARTESIA BLVD.
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owner

tBP project number: 20987.00
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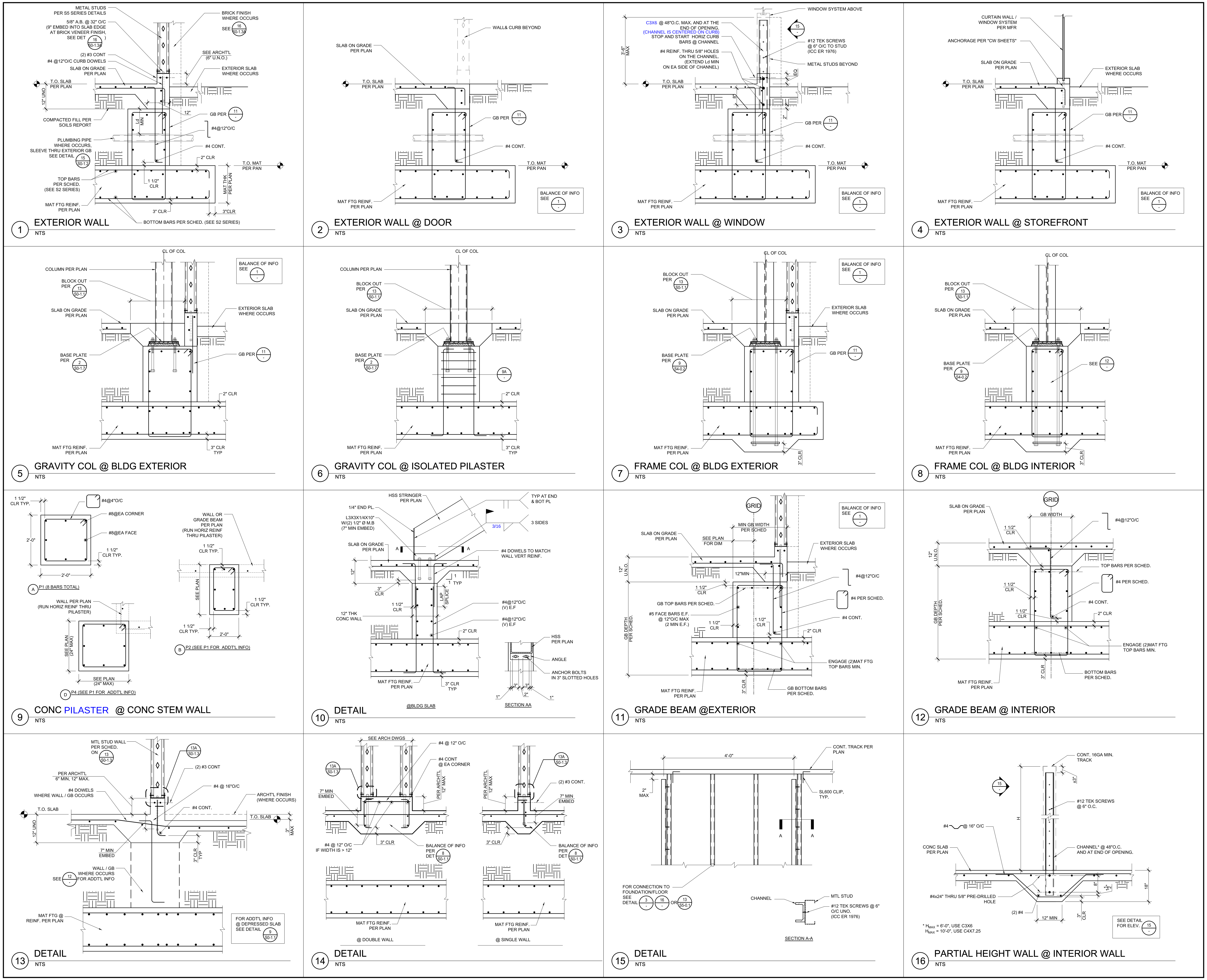
date: 9.3.2019

rev:	date:	description:

drawing title:
ROOF FRAMING PLAN

drawing no.:
S-3.2



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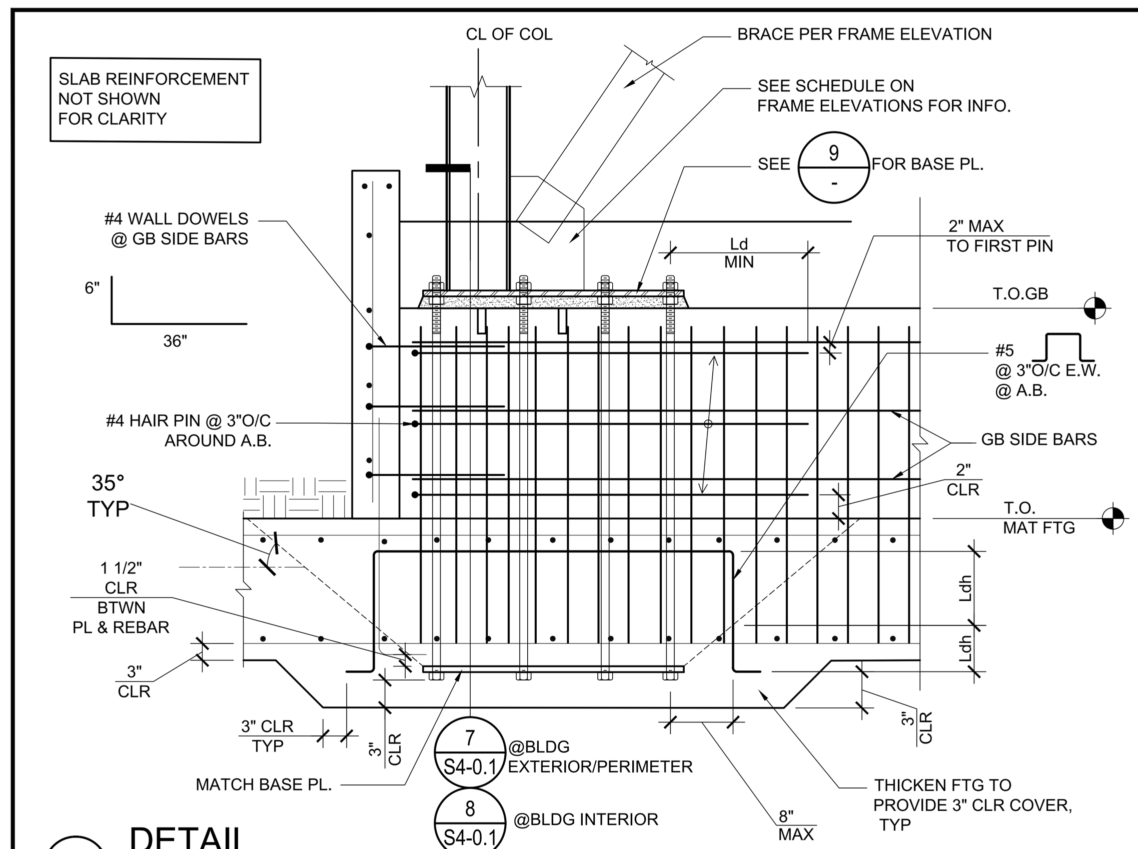
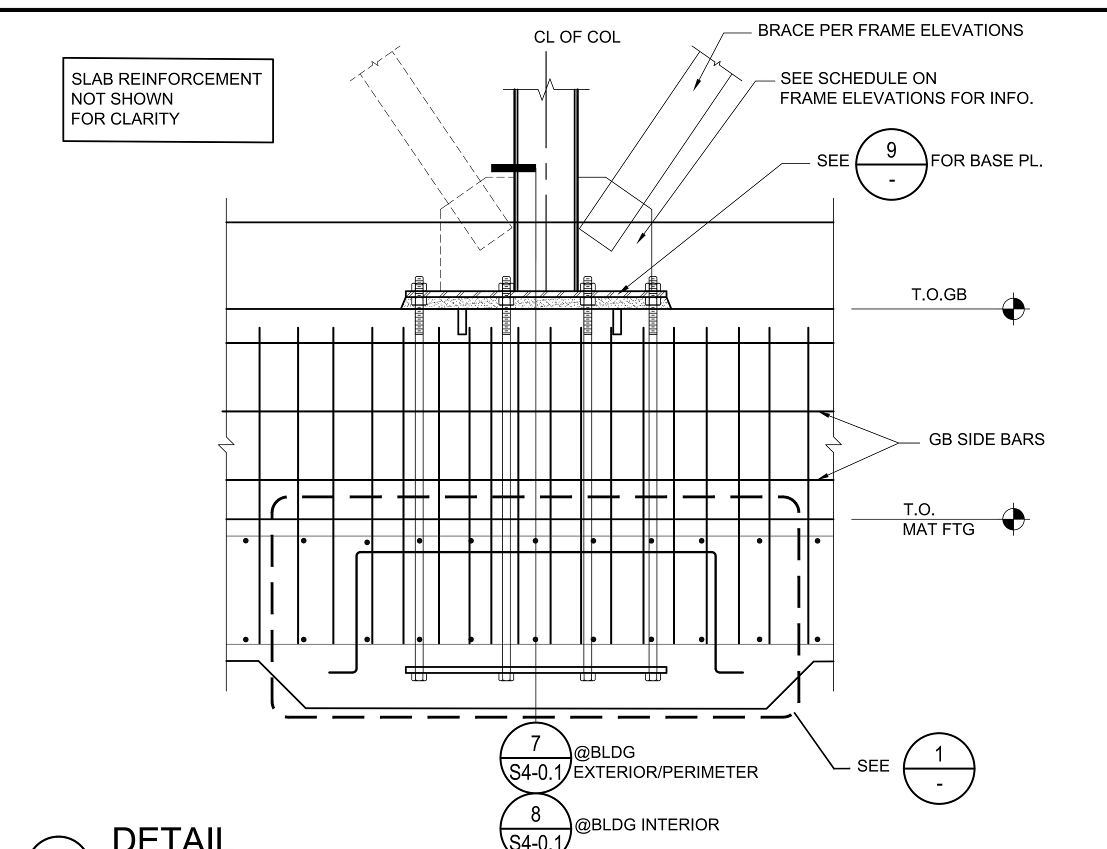
Rev: date: description:

drawing title:
FOUNDATION DETAILS

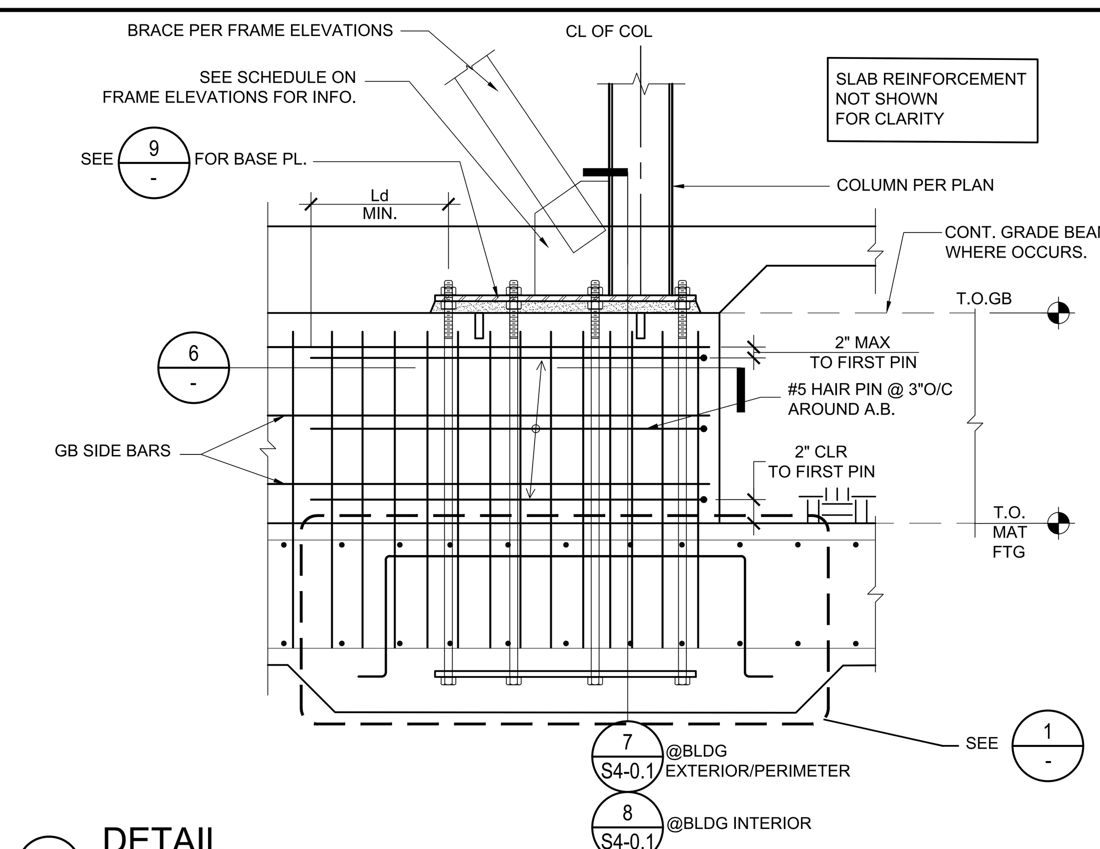
drawing no.:
S4-0.1



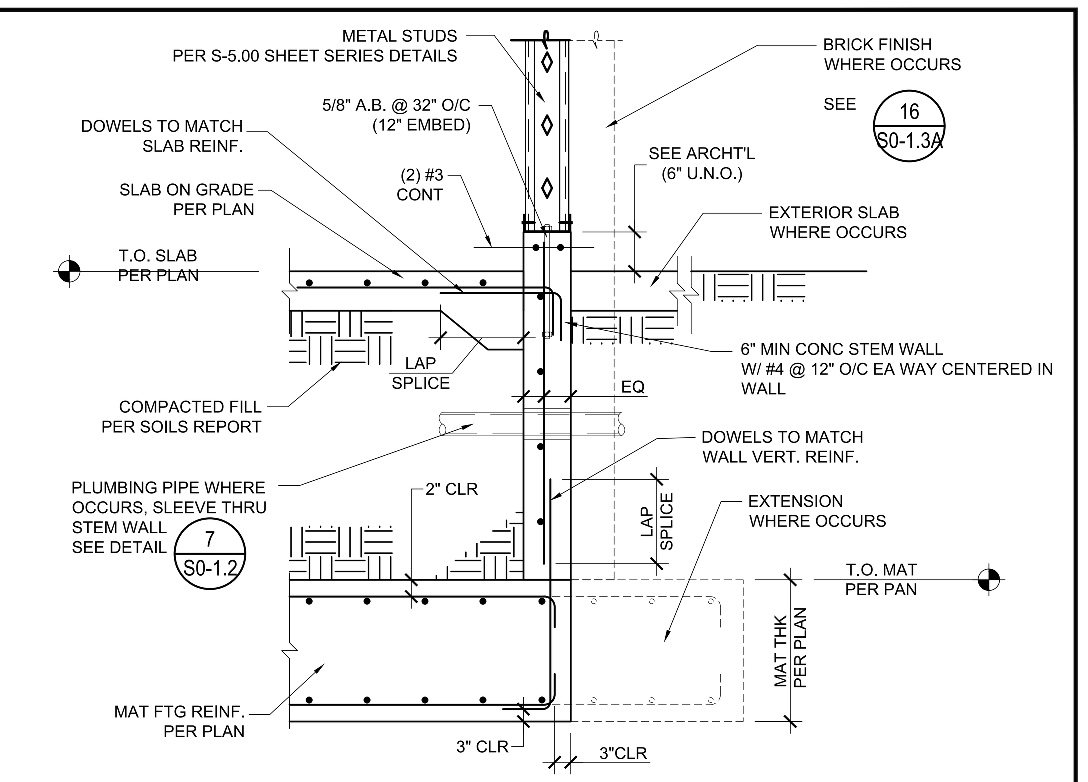
1 DETAIL
NTS



2 DETAIL
NTS

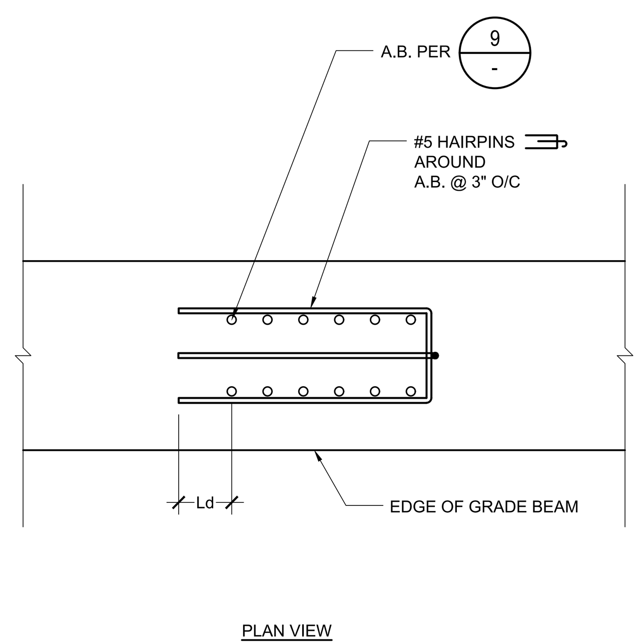


3 DETAIL
NTS

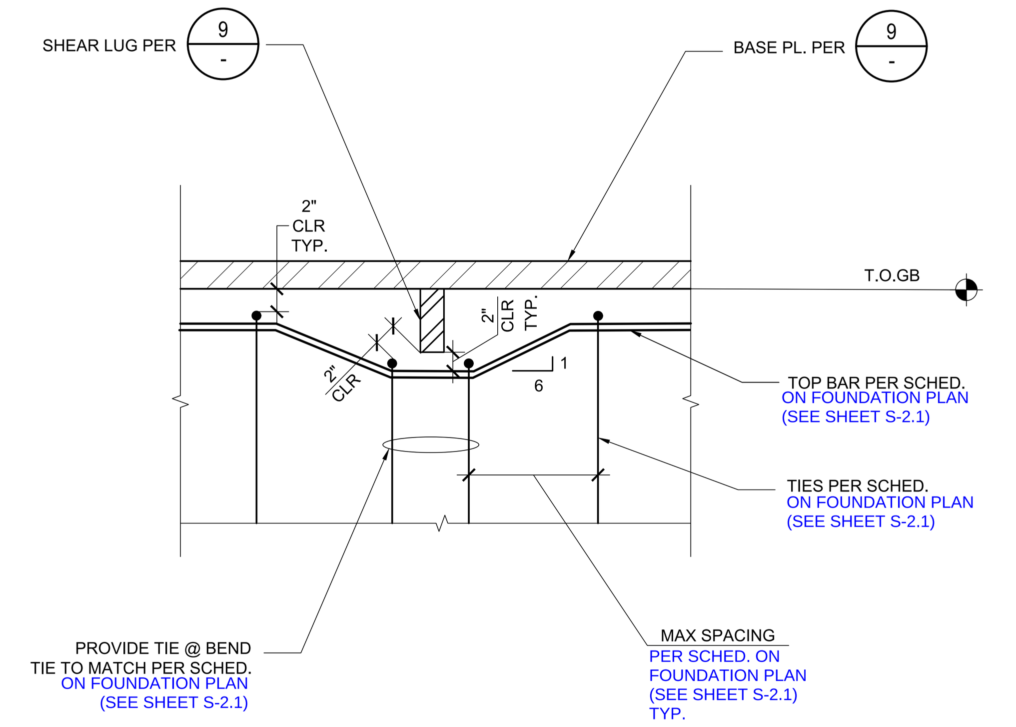


4 EXTERIOR WALL @ CONC WALL
NTS

5 NOT USED
NTS

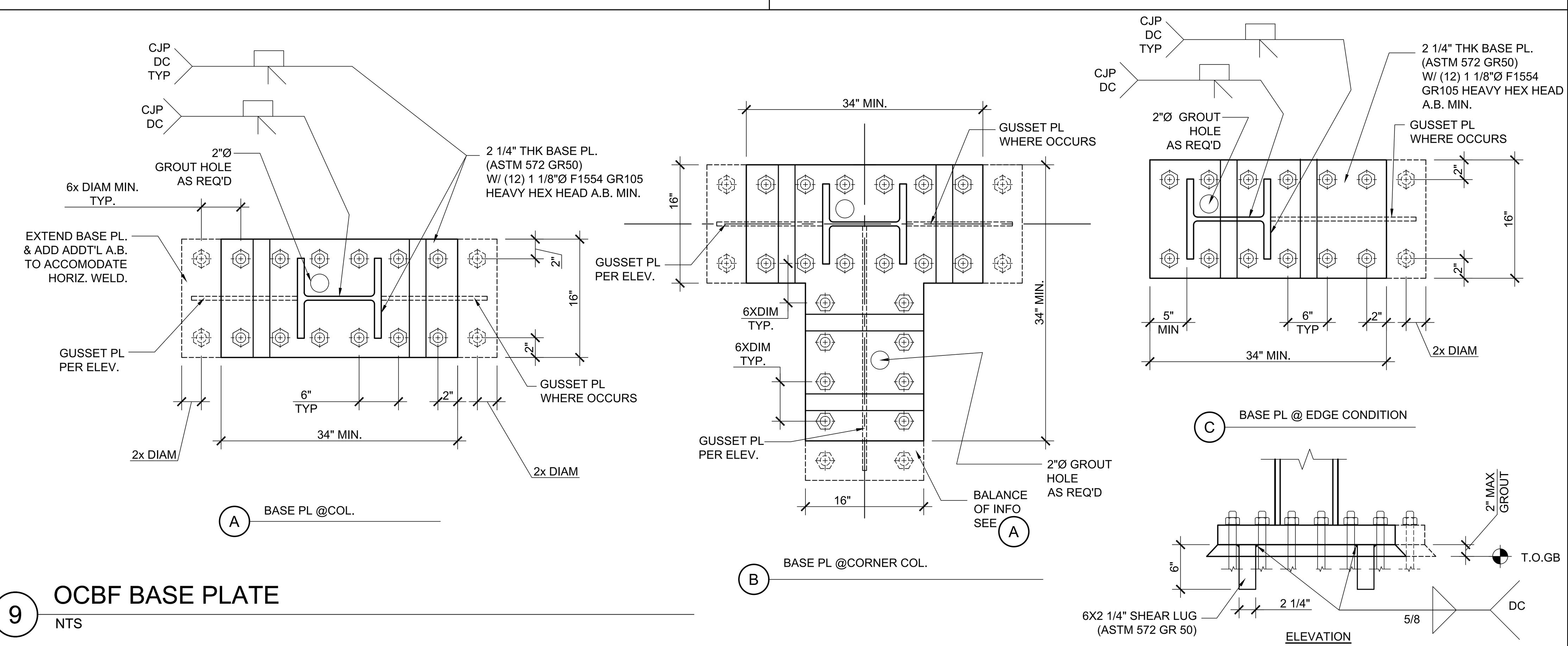


6 HAIRPIN DETAIL
NTS

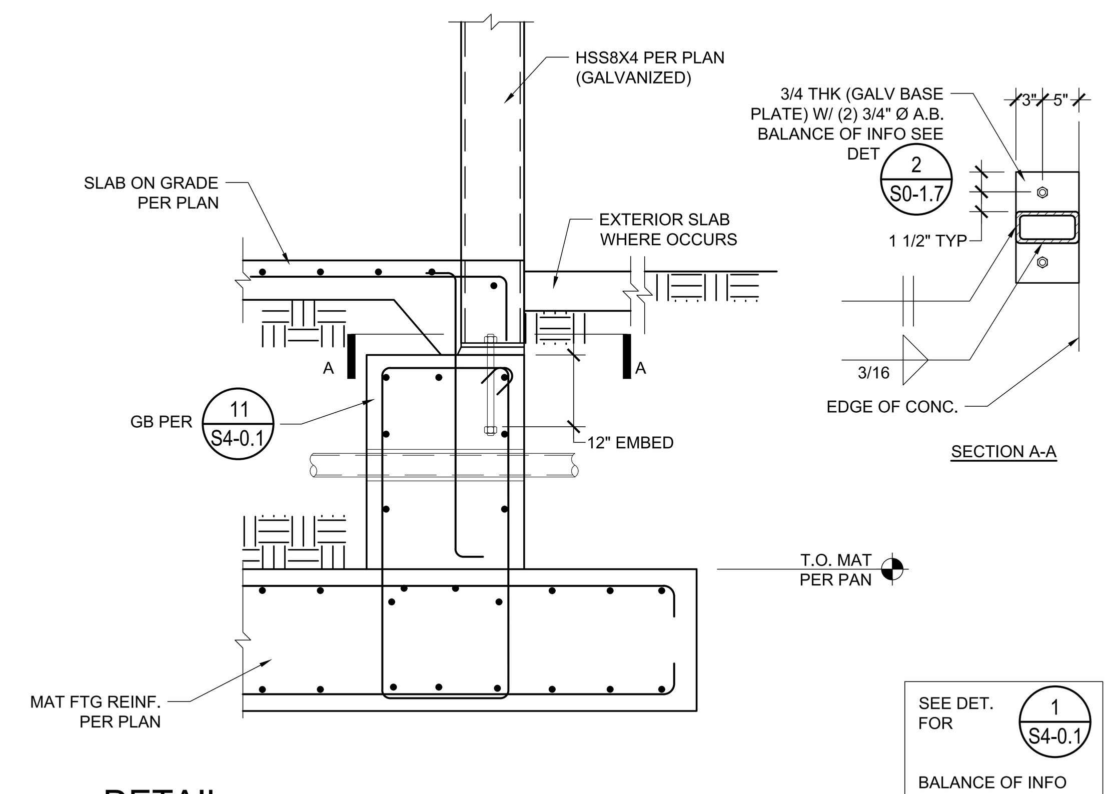


7 ADDITIONAL BAR @SHEARLUG
NTS

8 NOT USED
NTS

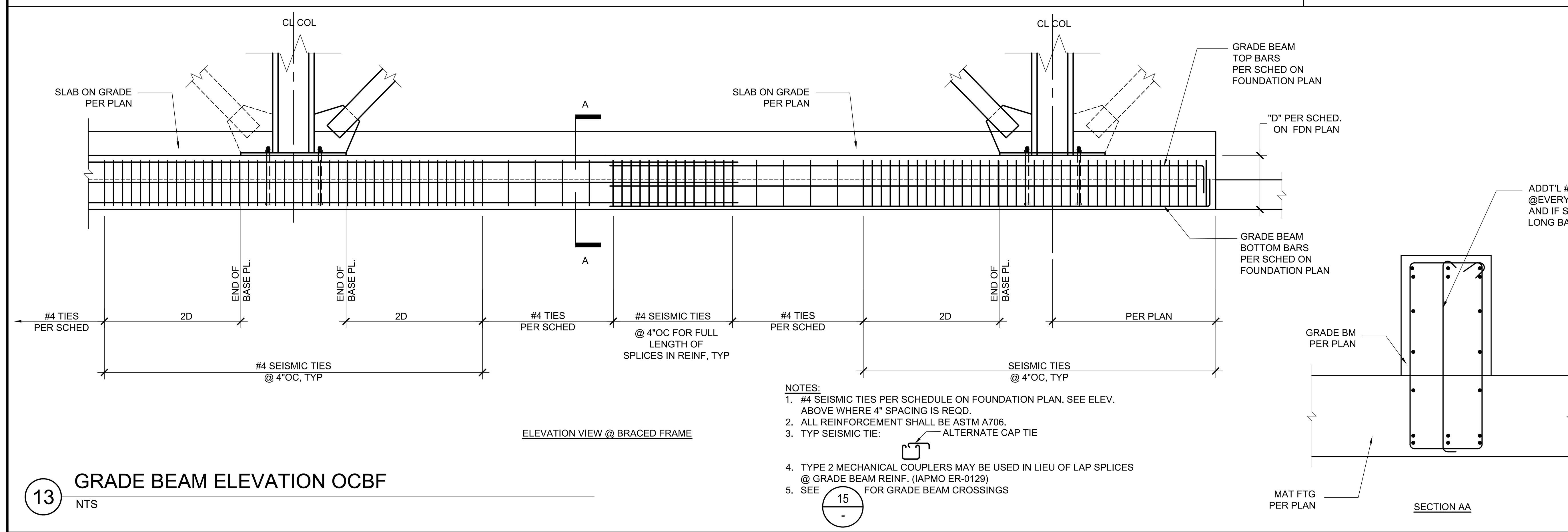


9 OCBF BASE PLATE
NTS



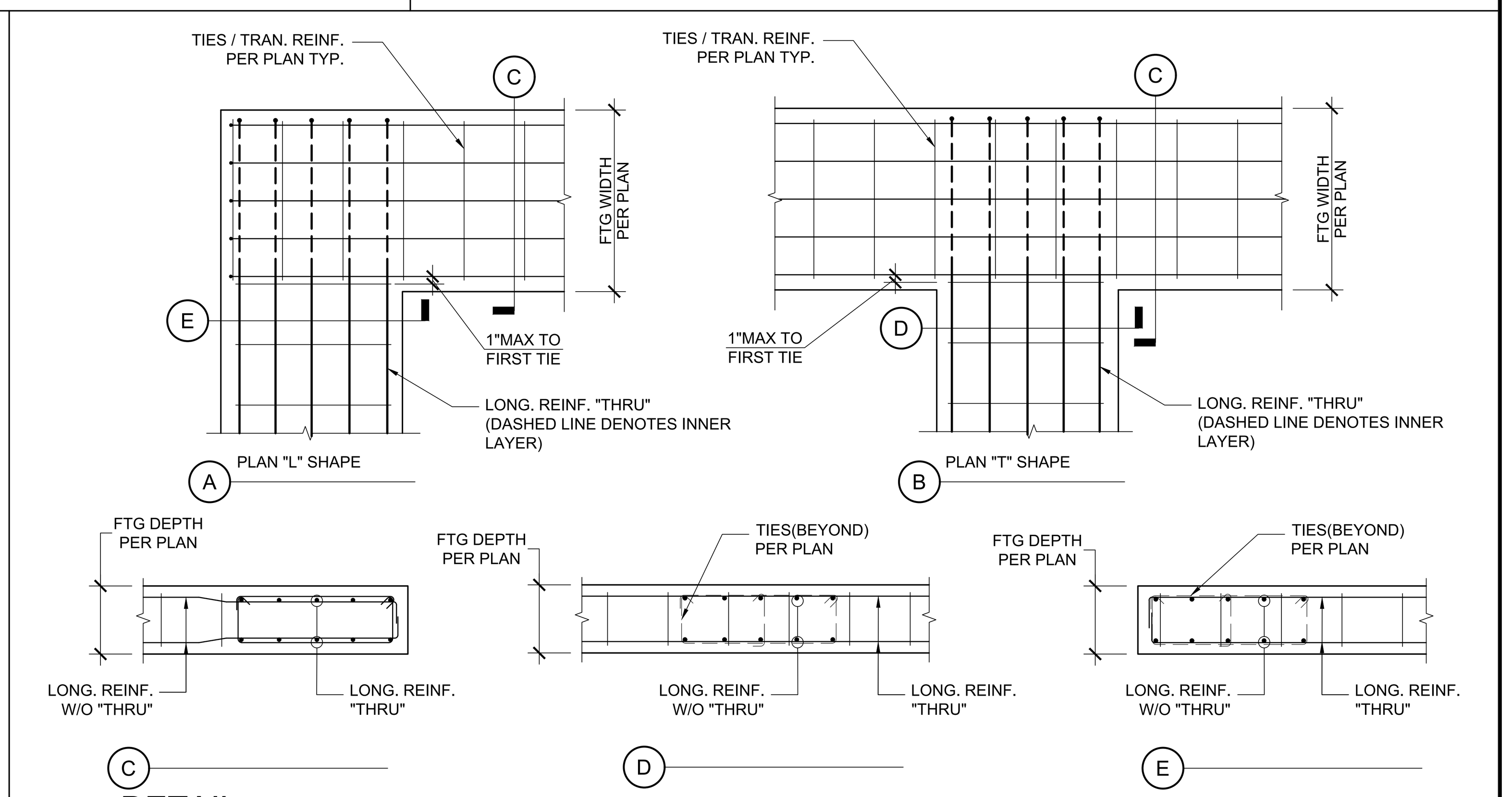
11 DETAIL
NTS

12 NOT USED
NTS



NOTES:
1. #4 SEISMIC TIES PER SCHEDULE ON FOUNDATION PLAN. SEE ELEV. ABOVE WHERE 4" SPACING IS REQD.
2. ALL REINFORCEMENT SHALL BE ASTM A706.
3. TYP SEISMIC TIE: ALTERNATE CAP TIE
4. TYPE 2 MECHANICAL COUPLERS MAY BE USED IN LIEU OF LAP SPLICES @ GRADE BEAM REINF. (IAPMO ER-0129)
5. SEE 15 FOR GRADE BEAM CROSSINGS

13 GRADE BEAM ELEVATION OCBF
NTS



15 DETAIL
NTS

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Project No.: D322

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consultant

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STUDENT SERVICES BLDG.
COMPTON COMMUNITY COLLEGE DISTRICT
1111 E. ARTESIA BLVD.
COMPTON, CA 90221

owner

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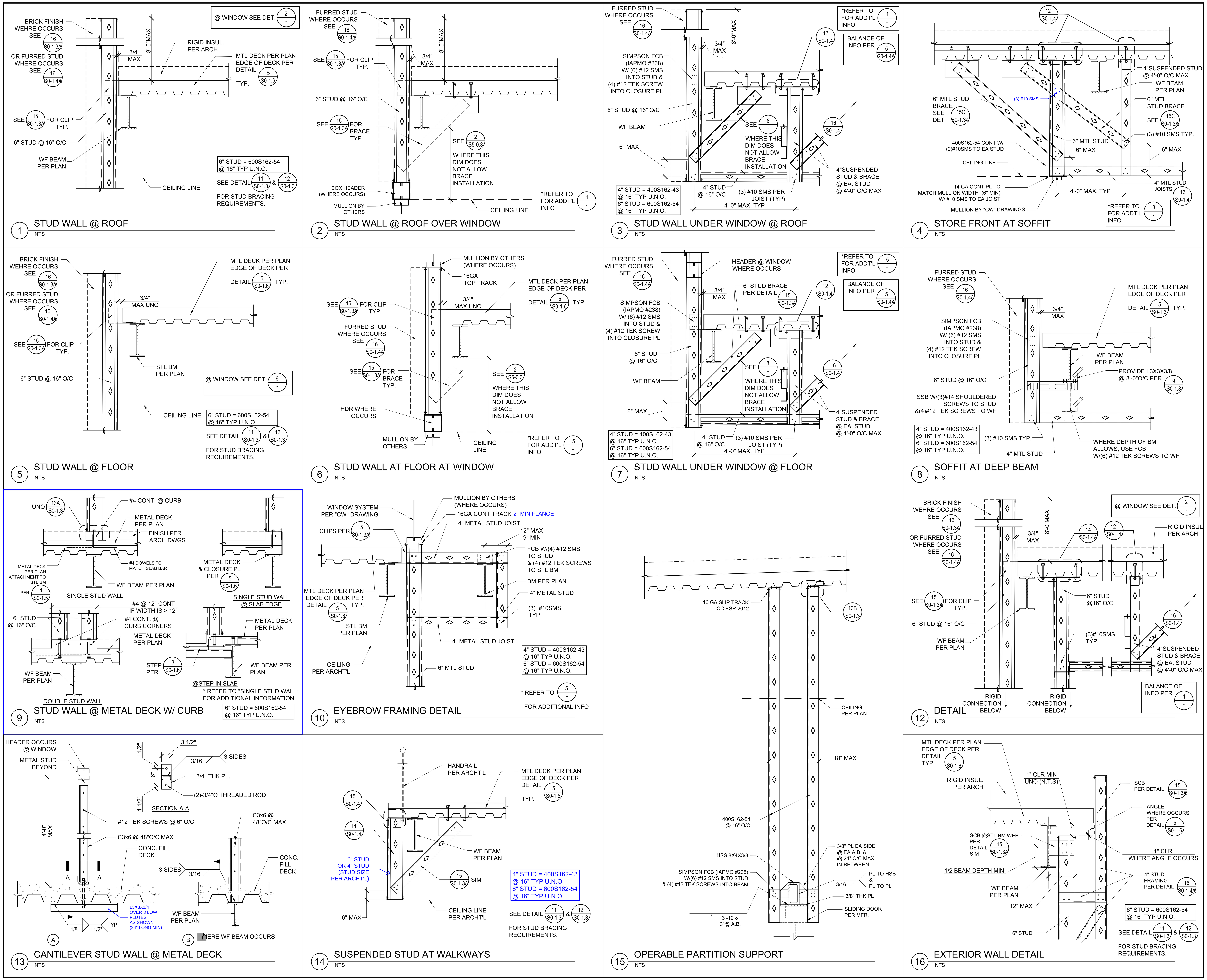
file name:
drawn by: tBP checked by: T. HALL
date: 9.3.2019

Rev:	date:	description:

drawing title:
FOUNDATION DETAILS

drawing no.:
S4-0.2



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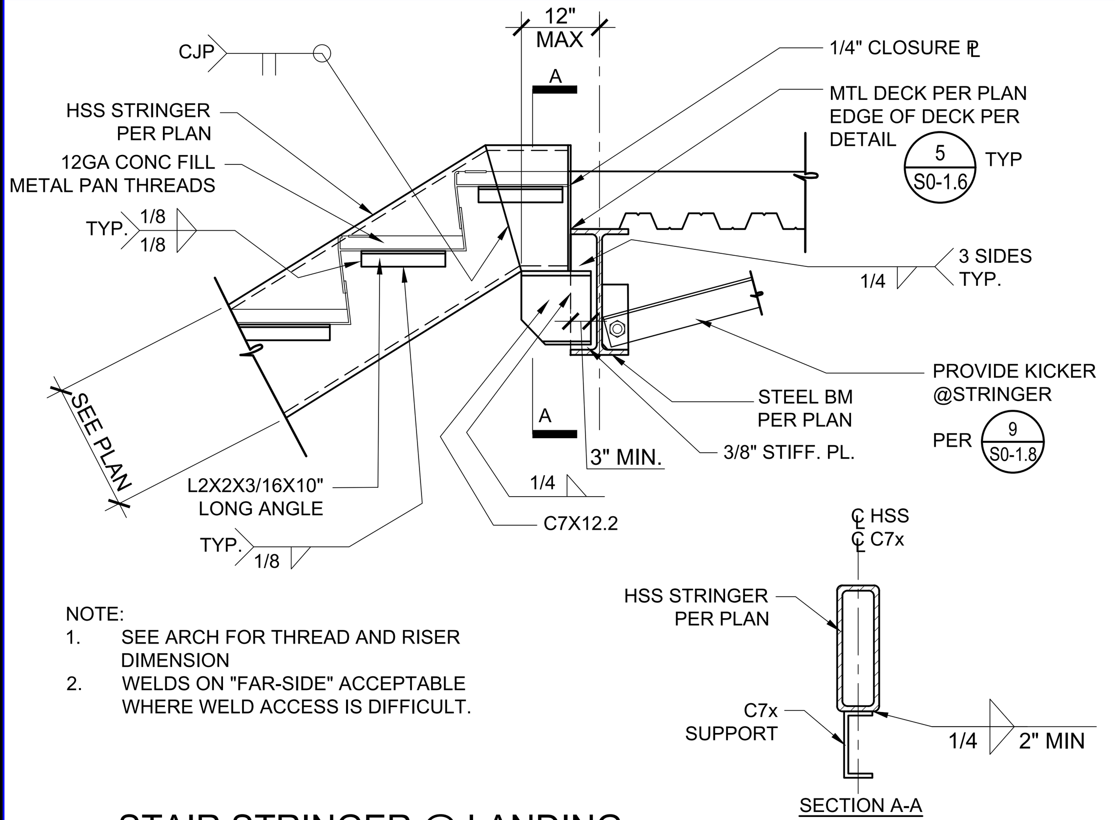
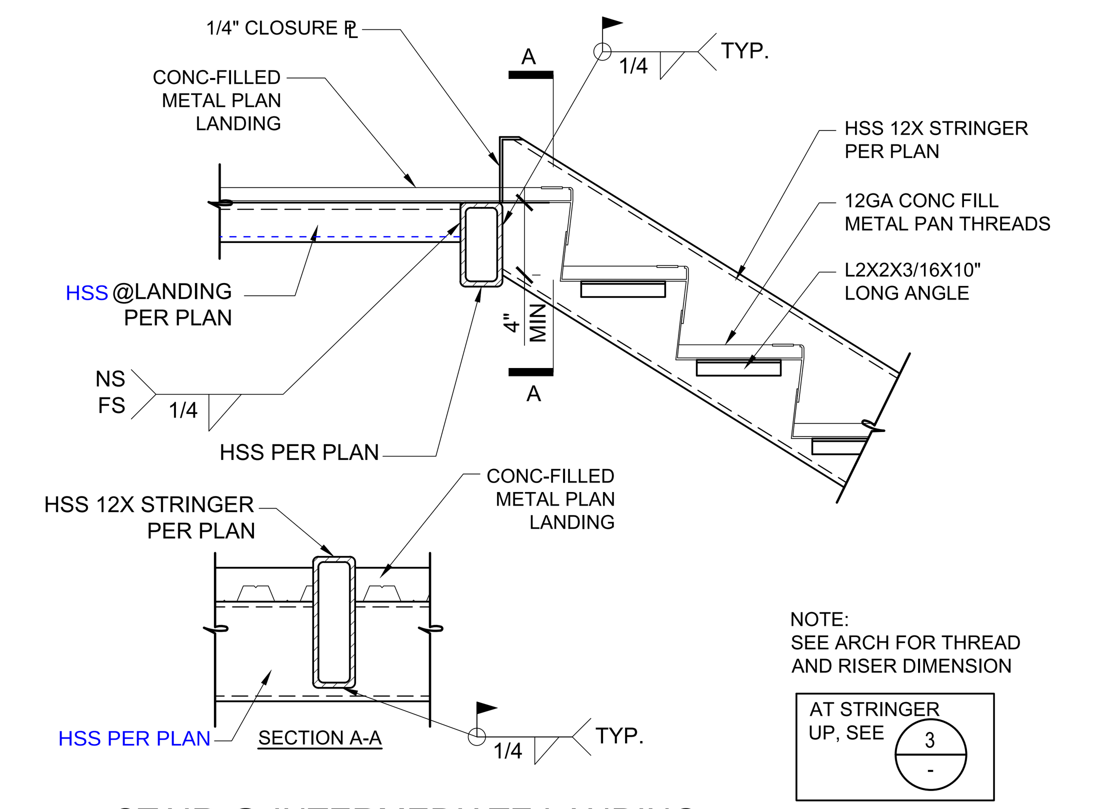
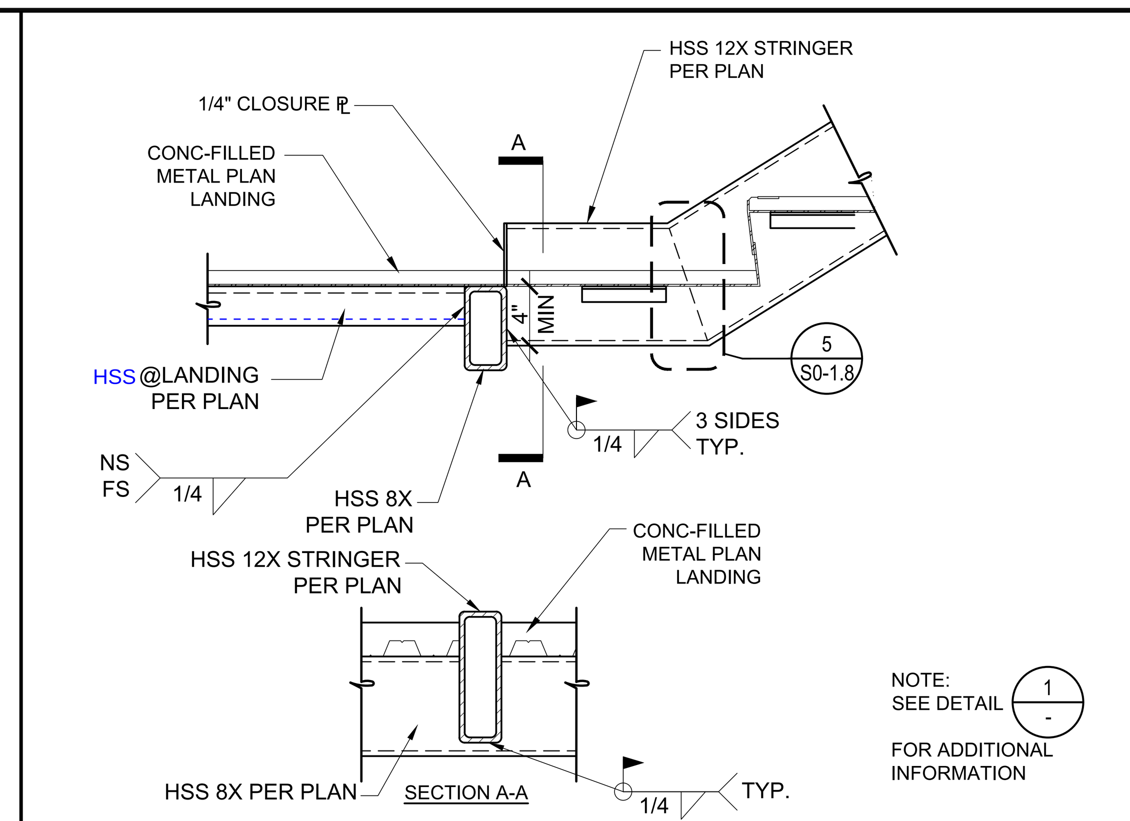
drawing no.:
S5-0.1



1 STAIR STRINGER @ LANDING
NTS



2 STAIR @ INTERMEDIATE LANDING
NTS



3 STAIR @ INTERMEDIATE LANDING
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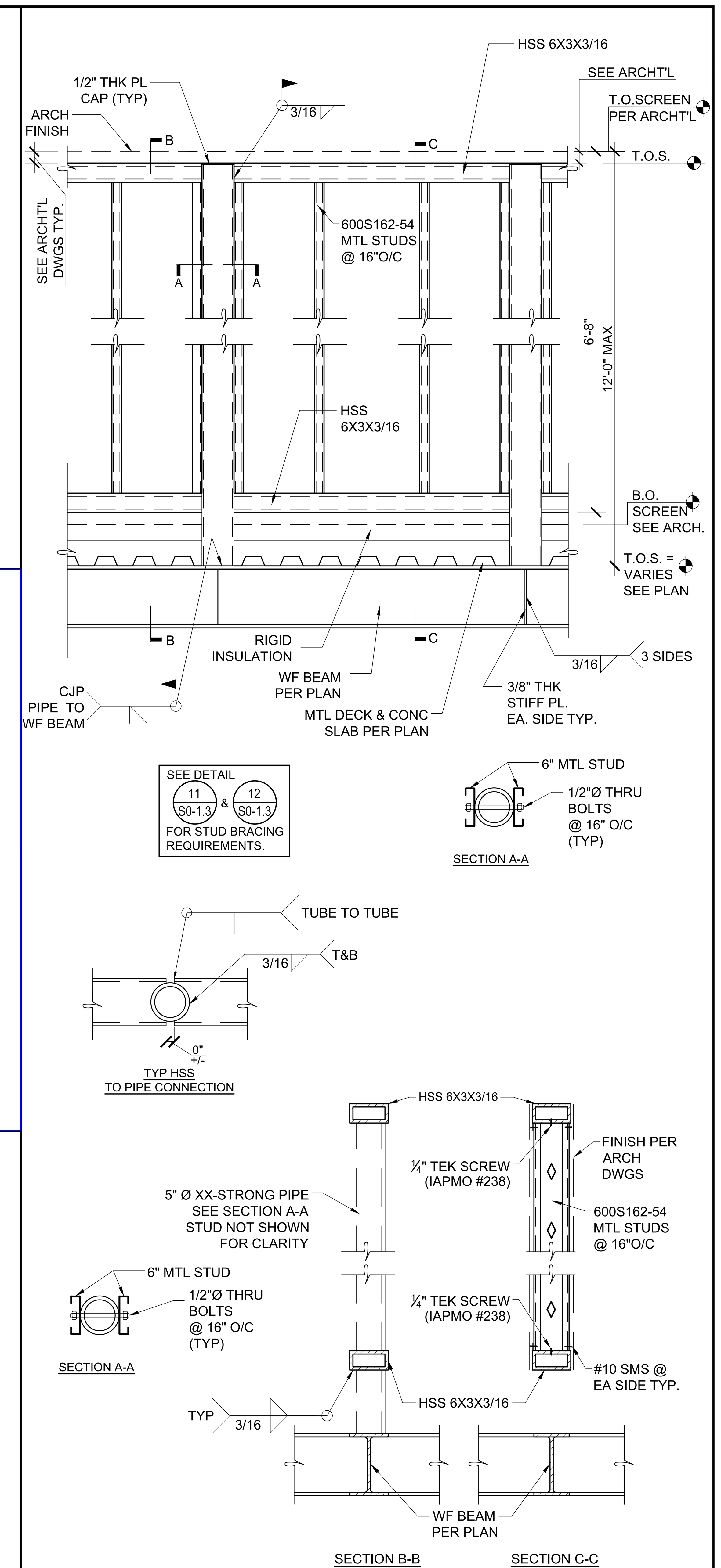
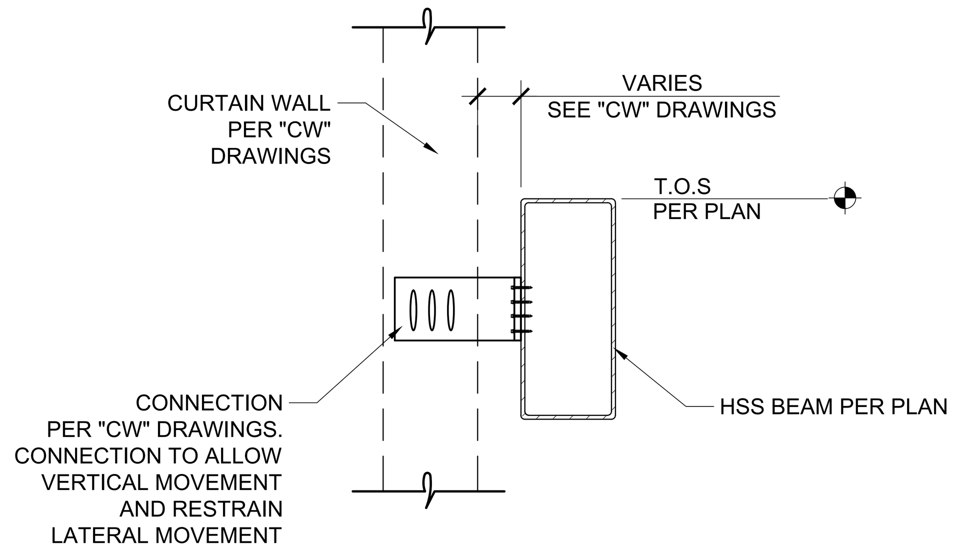
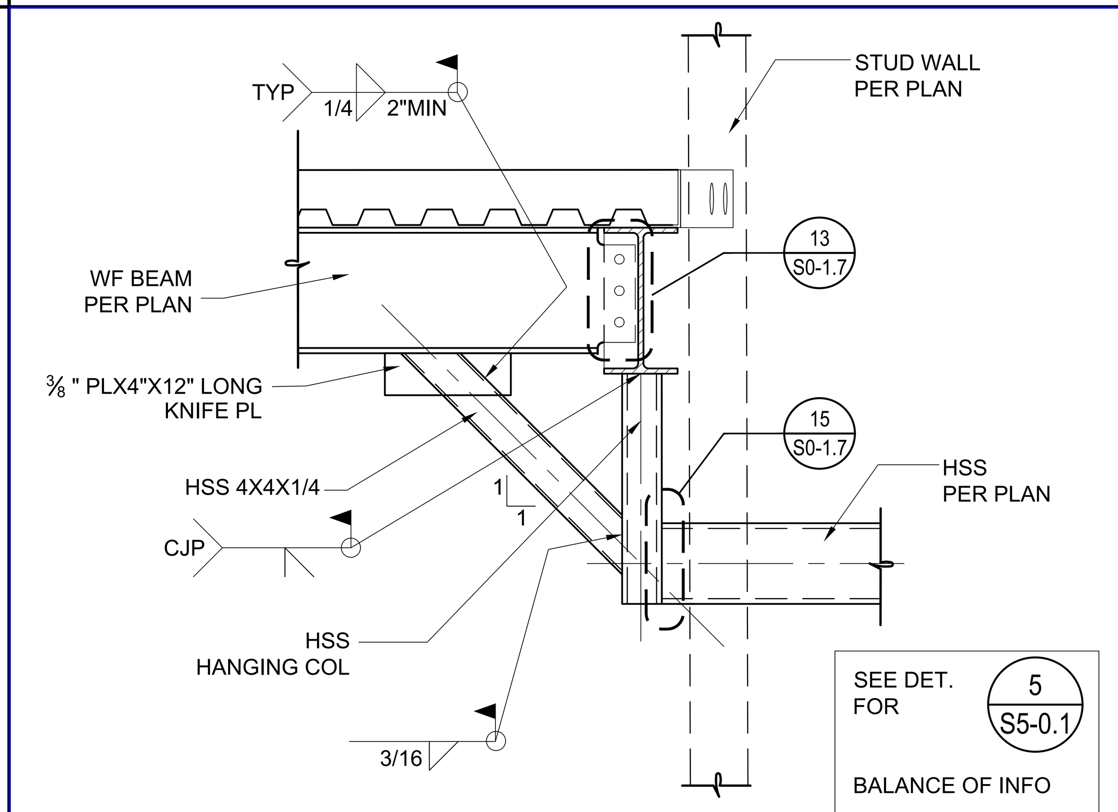


8 CANTILEVER WALL @ROOF
NTS

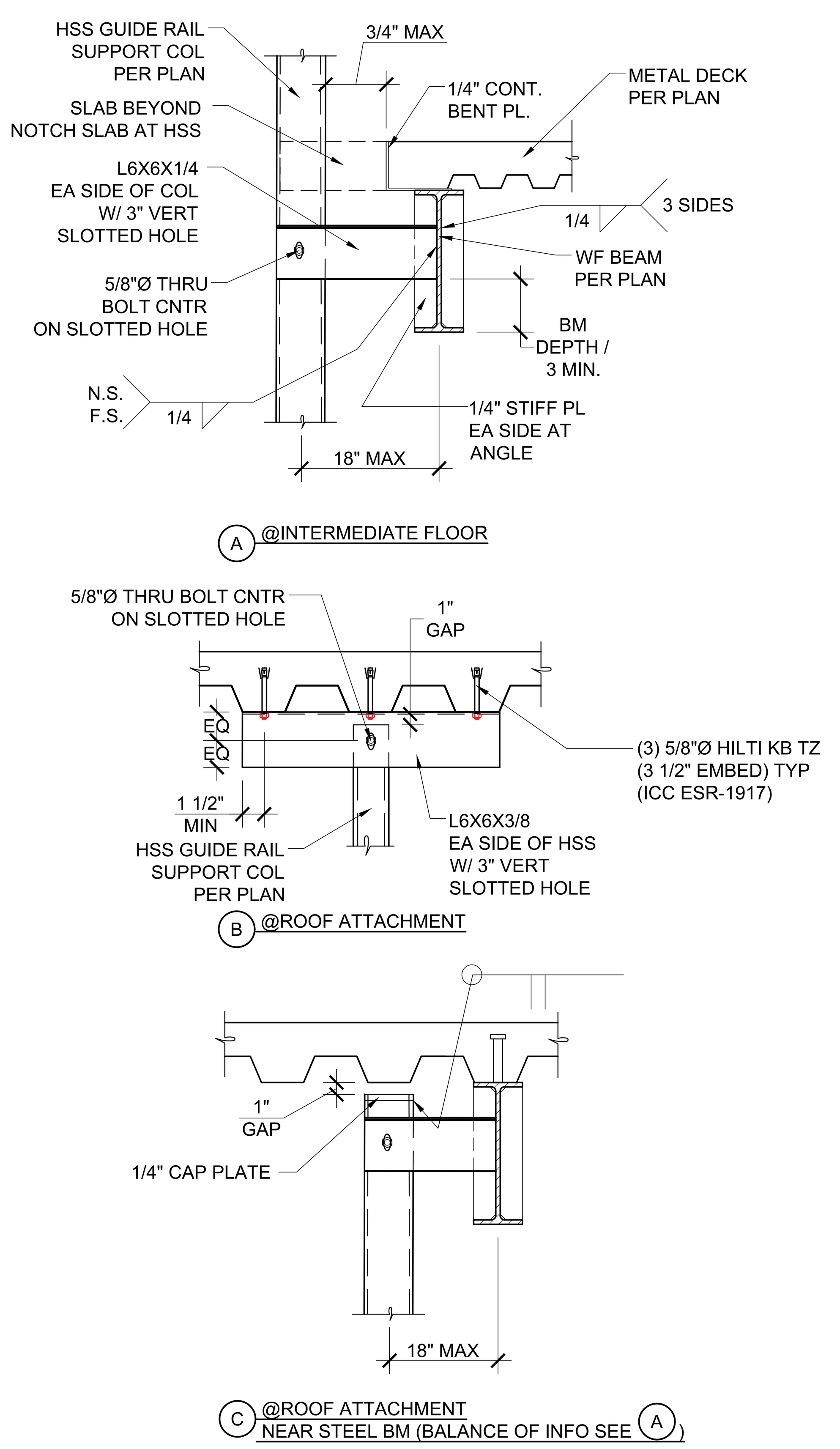


5 CURTAIN WALL TO HSS BEAM
NTS

6 NOT USED
NTS

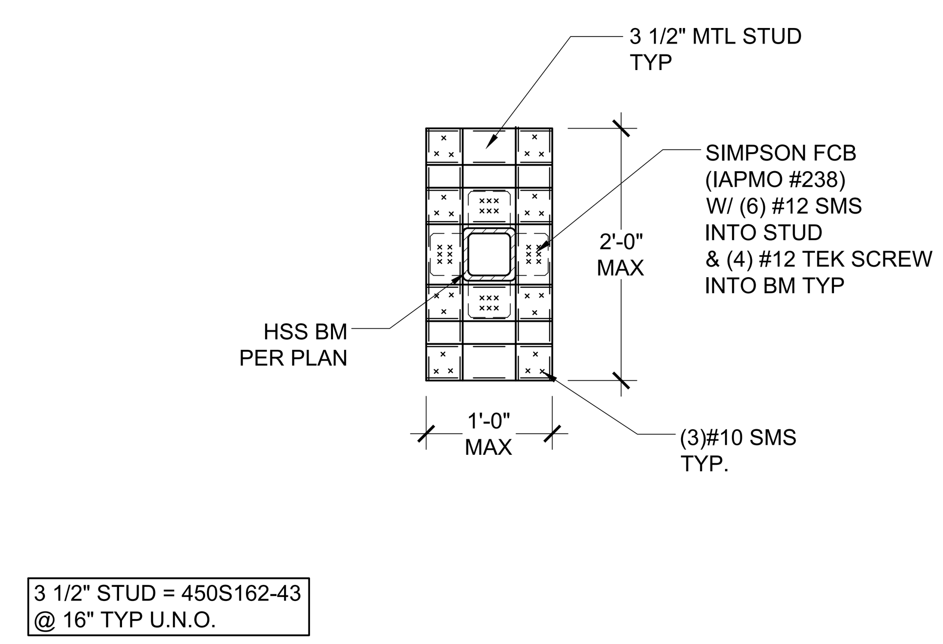


7 DETAIL
NTS



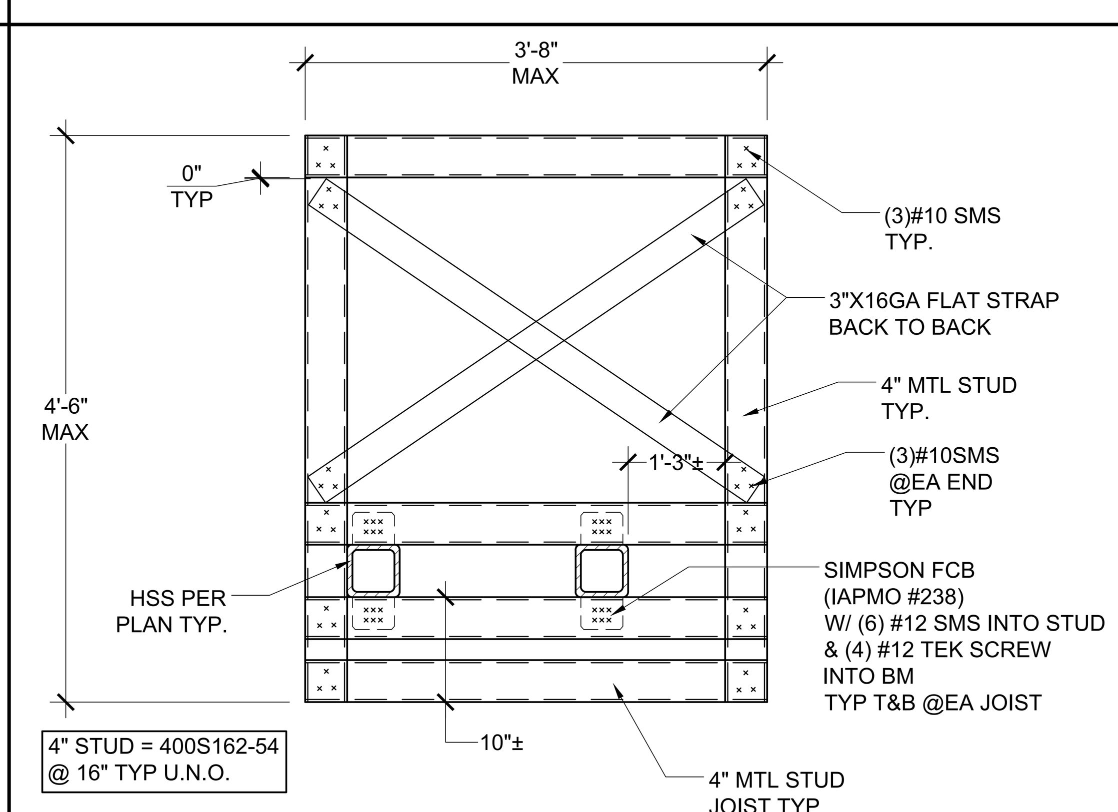
9 COL LATERAL SUPPORT
NTS

10 NOT USED
NTS



11 DETAIL
NTS

14 NOT USED
NTS



15 DETAIL
NTS

16 NOT USED
NTS

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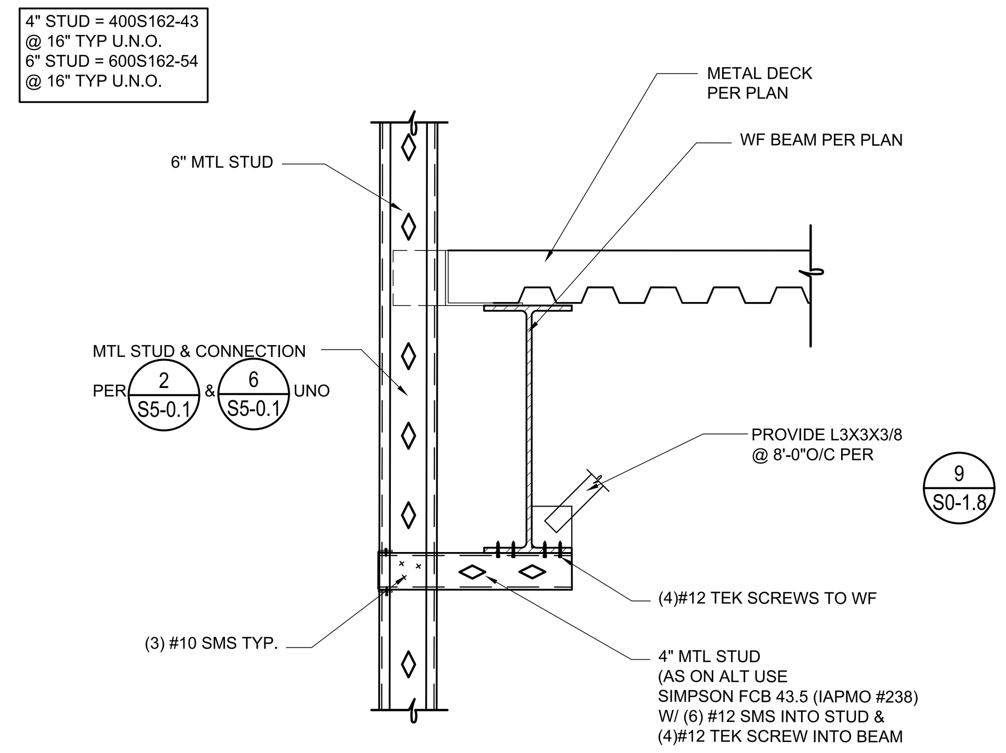
FRAMING DETAILS

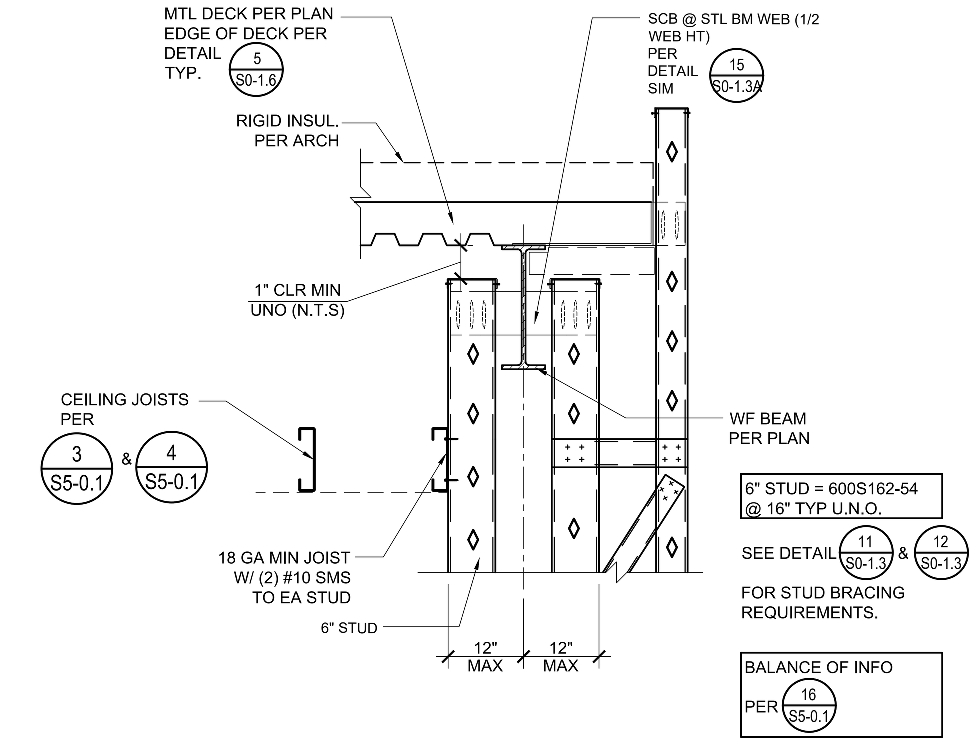
drawing no.:
S5-0.2

1 NOT USED
NTS



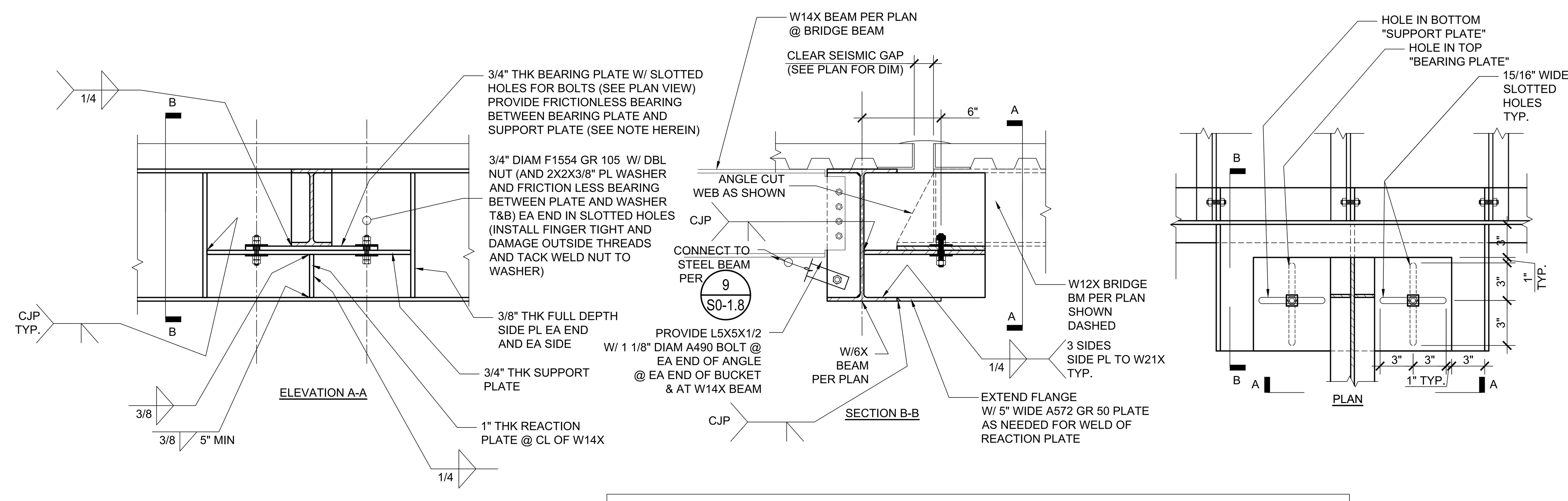
2 ALTERNATE WALL BRACING DETAIL
NTS

3 NOT USED
NTS



4 EXTERIOR WALL FRAMING DETAIL
NTS

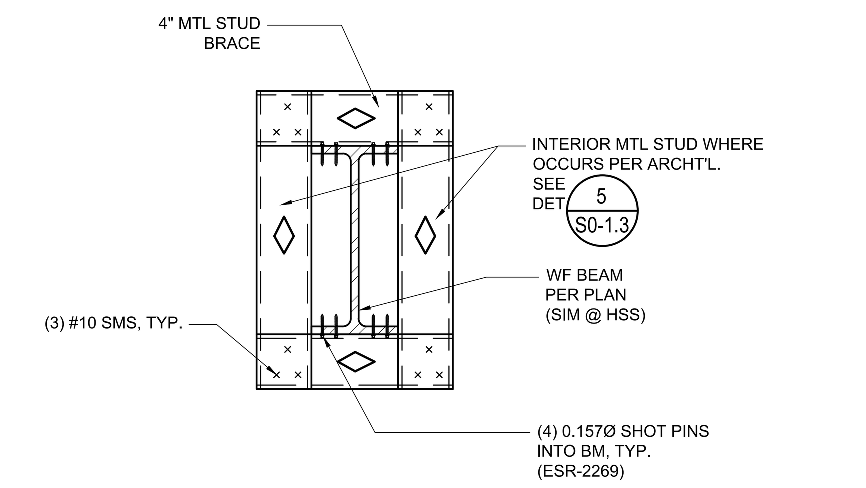
5 NOT USED
NTS



ALL PLATES ON THIS DETAIL SHALL BE A572 GR 50

FRICTIONLESS BEARING MATERIAL NOTE:
PROVIDE RBC LUBRON BEARING SYSTEMS, LUBRON TR (OR EQUAL).
RBC TO PROVIDE DESIGN FOR EACH PAD FOR A DL+LL OF 40 KIPS.
FRICTIONLESS BEARING MATERIAL SHALL COVER THE ENTIRE AREA SURFACE AREA OF THE PLATES AND WASHERS.

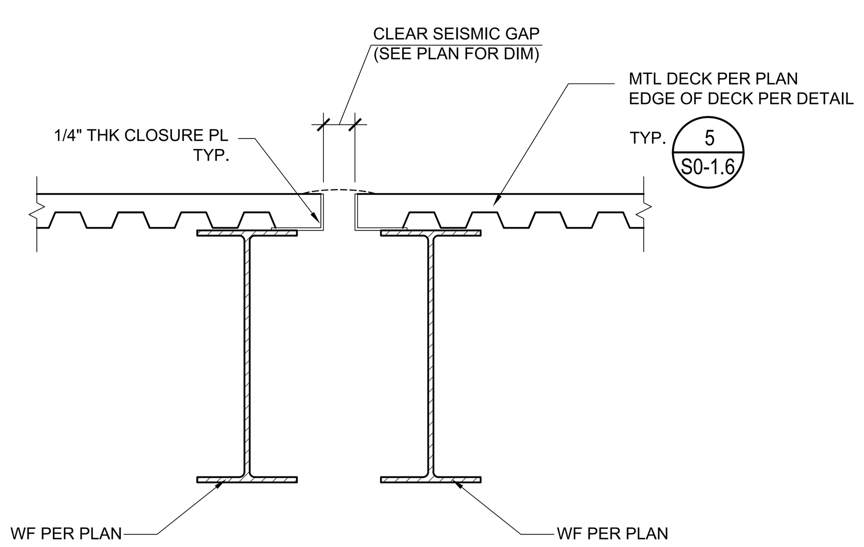
6 DETAIL
NTS



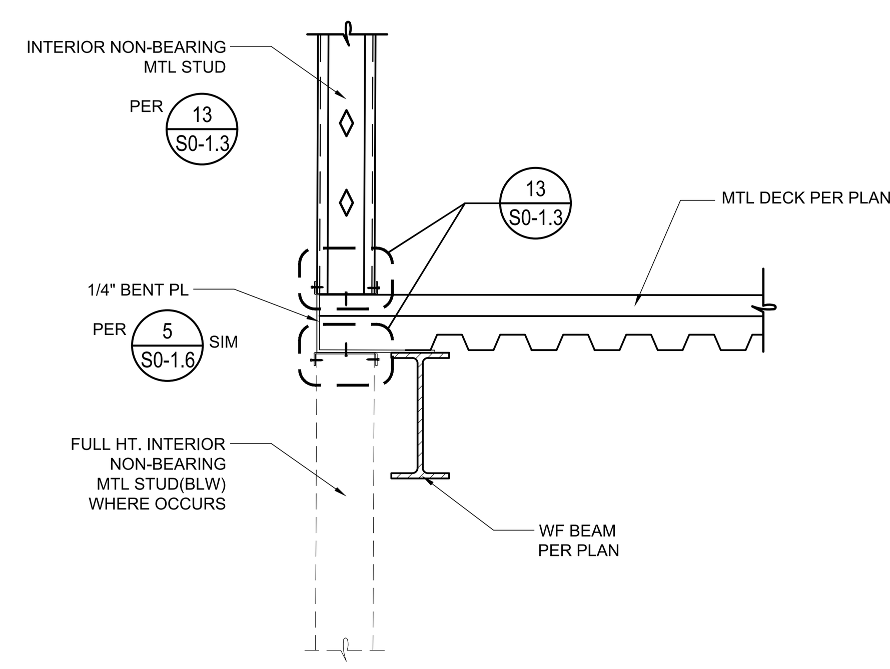
4" STUD = 400S162-43
@ 16" TYP U.N.O.

8 DETAIL
NTS

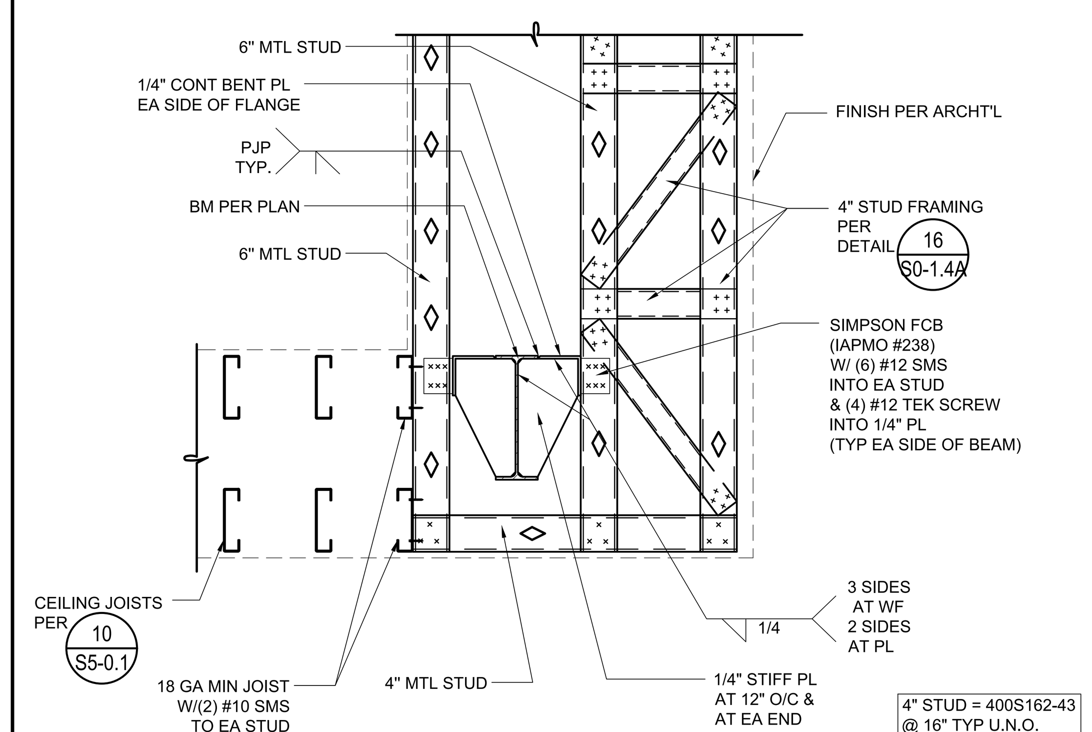
9 NOT USED
NTS



10 SEISMIC GAP DETAIL
NTS

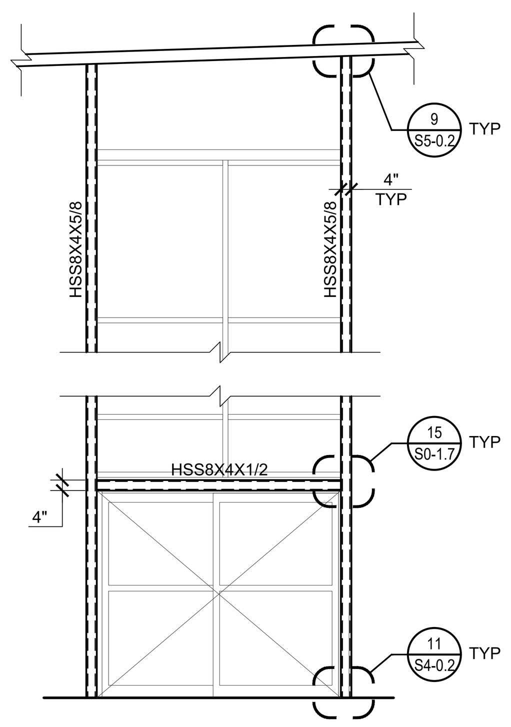


11 DETAIL
NTS

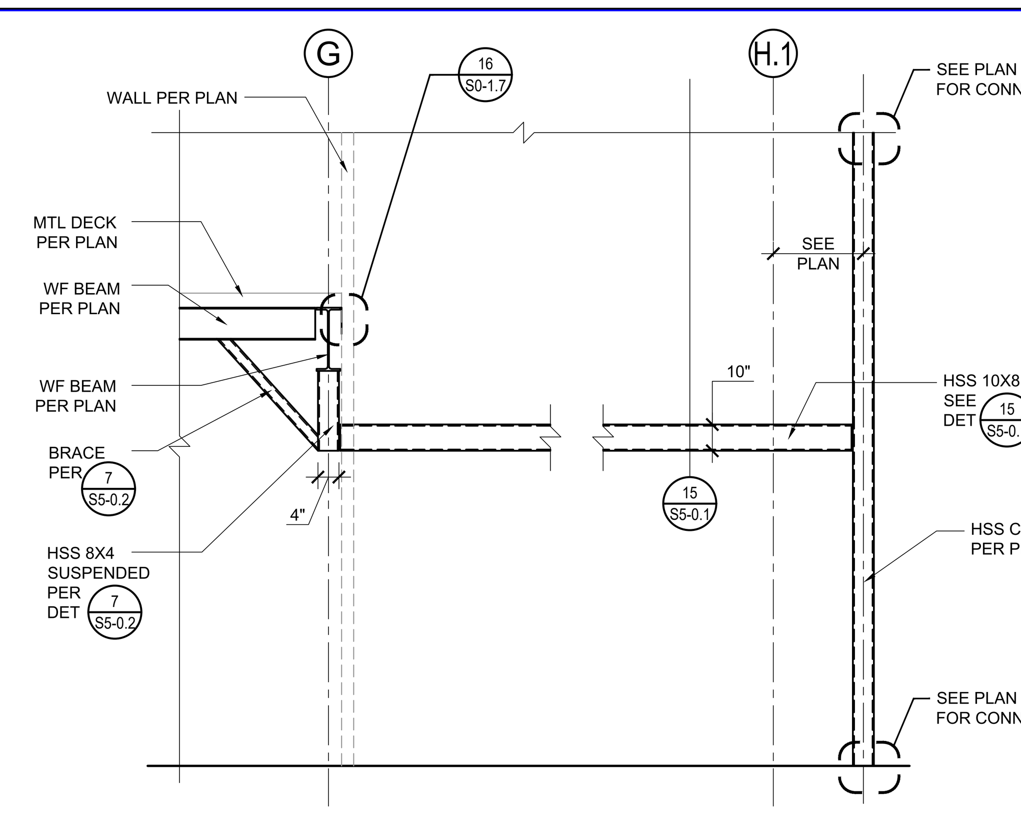


4" STUD = 400S162-43
@ 16" TYP U.N.O.
6" STUD = 600S162-54
@ 16" TYP U.N.O.

12 EXTERIOR WALL FRAMING DETAIL
NTS



13 STORE FRONT ELEVATION
NTS



14 OPERABLE PARTITION ELEVATION
NTS

15 NOT USED
NTS

16 NOT USED
NTS

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tBP project number : 20987.00
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drawn by: tBP checked by: T. HALL
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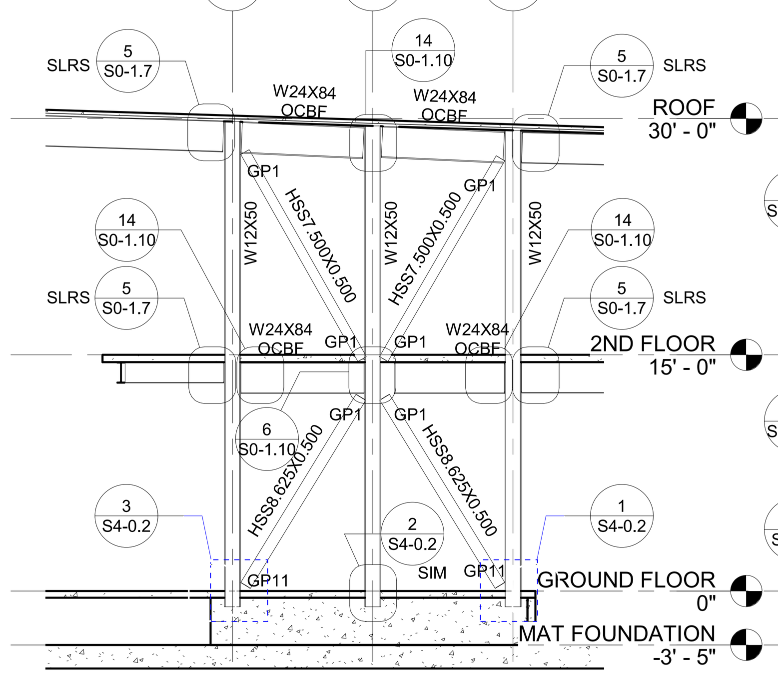
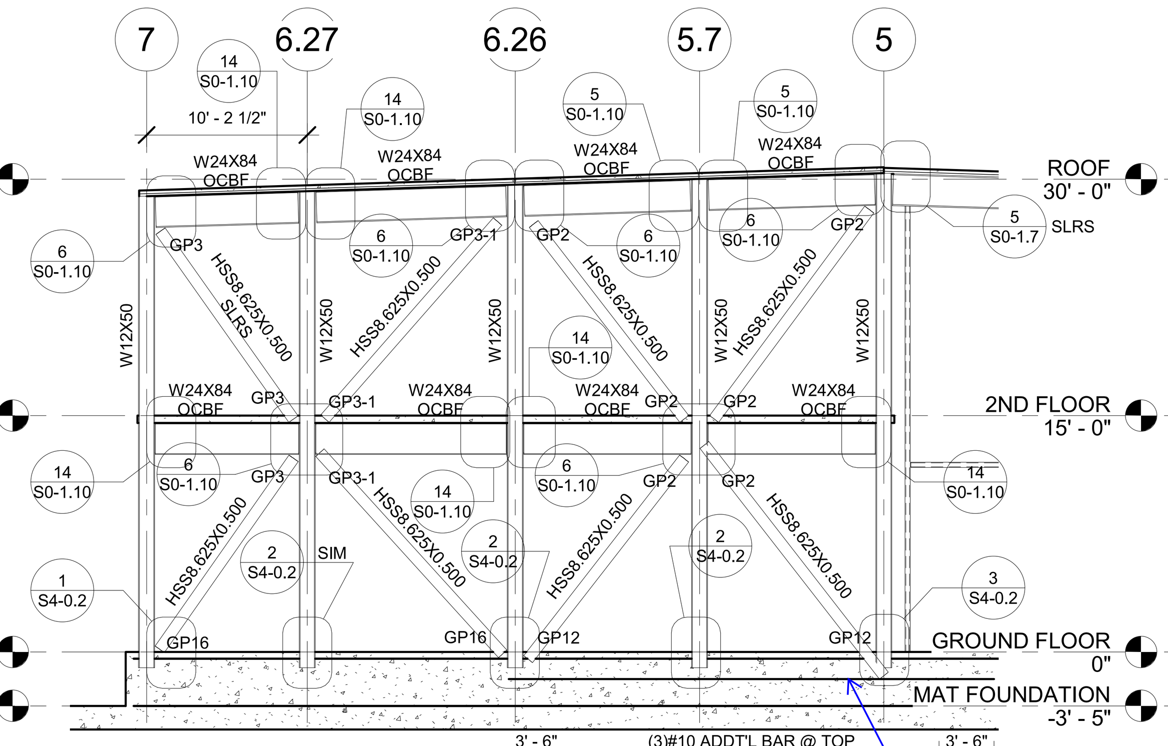
drawing title:
FRAMING
DETAILS

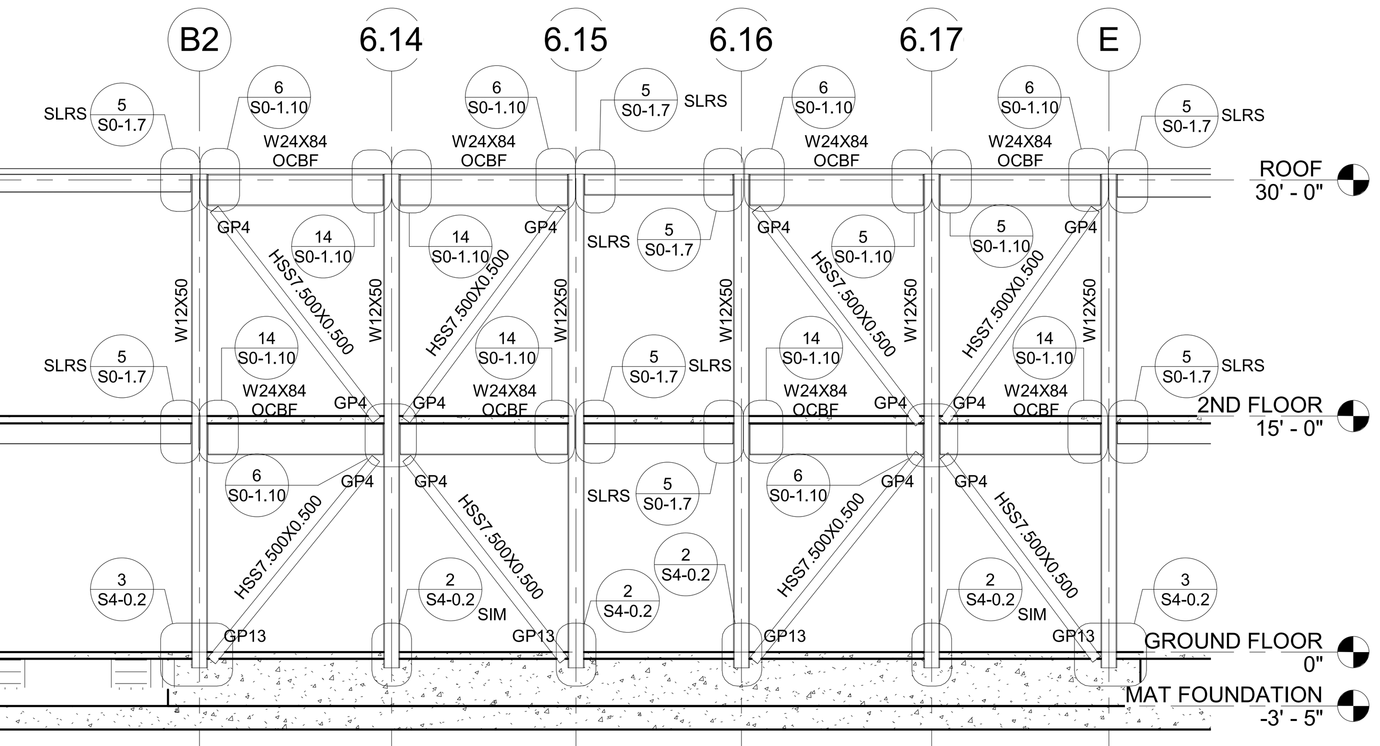
drawing no.:
S5-0.3



1 FRAME ELEVATION (GL-B)
SCALE: 1/8" = 1'-0"



2 FRAME ELEVATION (GL-A)
SCALE: 1/8" = 1'-0"



3 FRAME ELEVATION (GL-5)
SCALE: 1/8" = 1'-0"

ELEVATION SHEET NOTES:

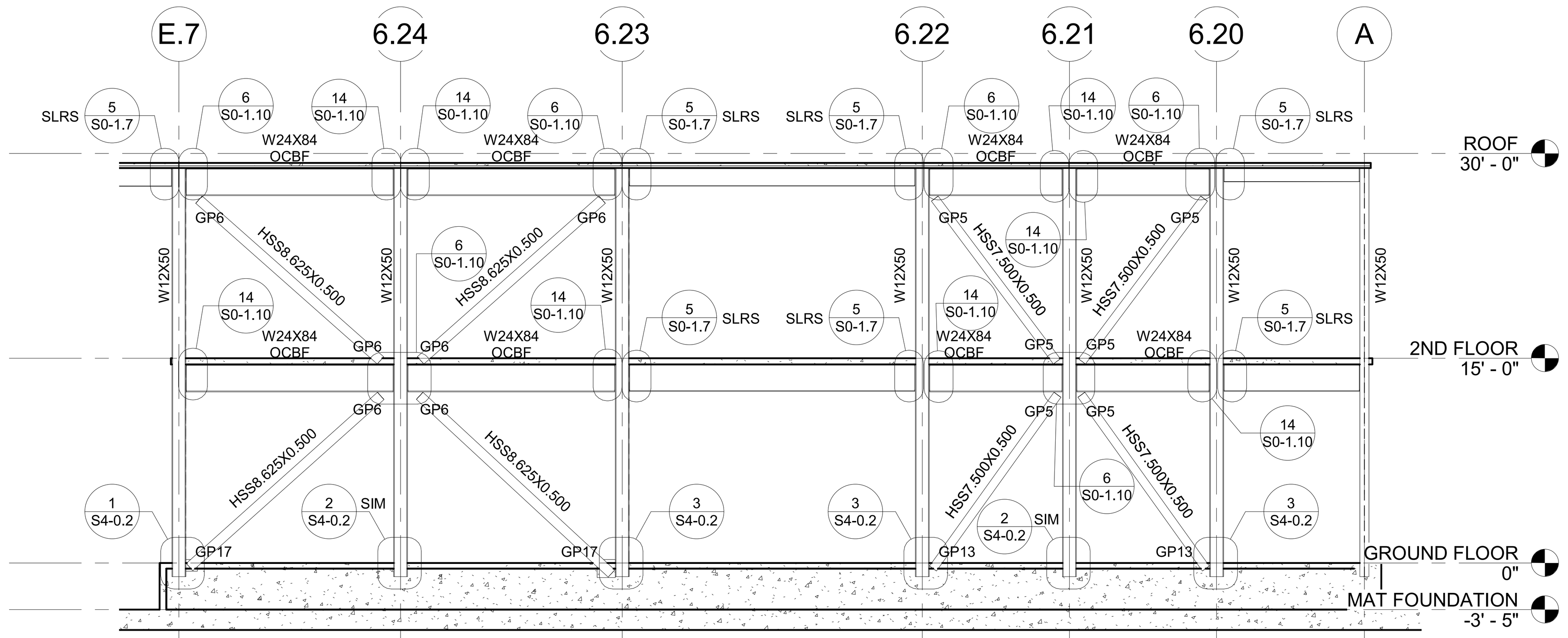
1. COLUMN CAN BE SPLICED @ 48" ABOVE 2ND FLOOR PER DETAIL 10/S0-1.8
2. NOT USED
3. OCBF GUSSET PLATE SCHEDULE. FOR ABBREVIATION MEANINGS SEE DET 15/S0-1.10

OCBF GUSSET PLATE SCHEDULE

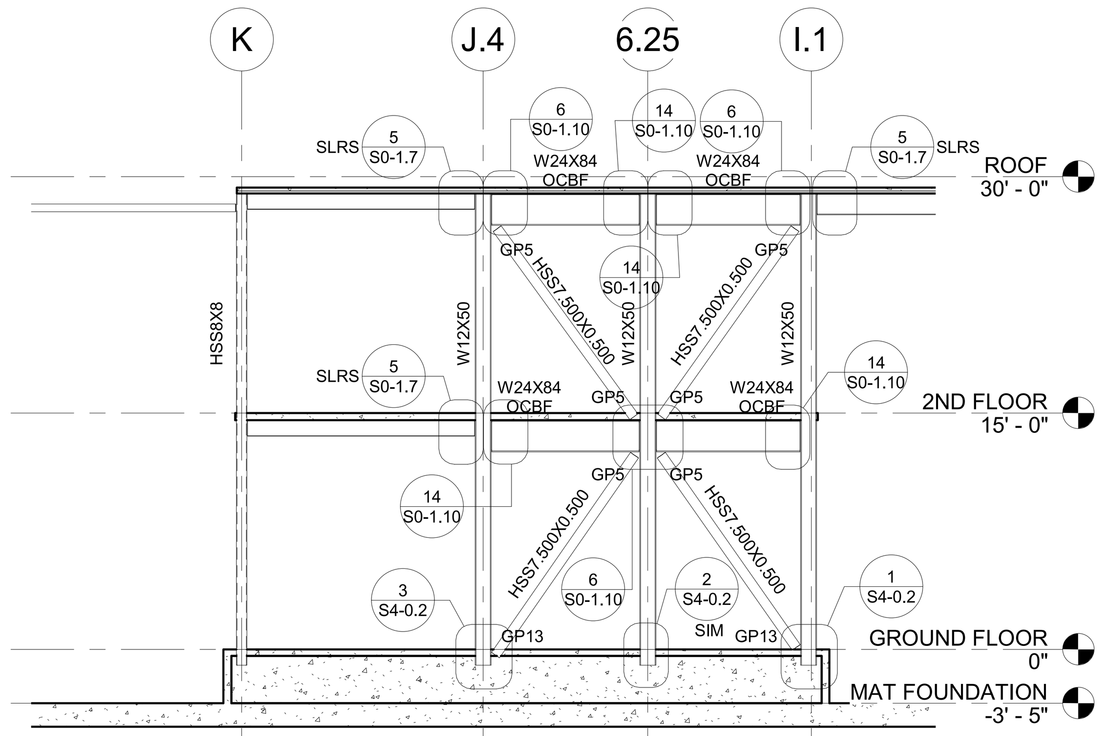
CONN ID	GUSSET PL THICKNESS		TB	LB	TH	TV	LH	LV	LE
GP1	1"	TABLE COLUMN NOT USED	1/2"	12"	1/2"	1/2"	12"	17"	32"
GP2	1"			12"			19.5"	17"	32"
GP3	1"			11.5"			26"	16.5"	33"
GP3-1	1"			11.5"			22"	16.5"	30.5"
GP4	1"			7.5"			15"	12.5"	27.4"
GP5	1"			7.5"			14"	12.5"	26.8"
GP6	1"			9"			22"	14.5"	33"
GP7	1"			10"			22"	14.5"	33"
GP8	1"			7.5"			34"	-	32.9"
GP9	1"			7.5"			21"	12.5"	29"
GP11	1"			12"			12.5"	30"	41.5"
GP12	1"			9"			12.5"	27"	32.5"
GP13	1"			7.5"			12"	25"	31"
GP14	1"			9"			12.5"	28"	35"
GP16	1"			10"			12.5"	27"	33.5"
GP17	1"			9"			15"	24"	31.5"
GP18	1"			7.5"			10"	35"	45"
GP19	1"		1/2"	7.5"	1/2"	1/2"	12.5"	21"	30"

4. SEE 13/S4-0.2 FOR TYP. GRADE BM ELEVATION

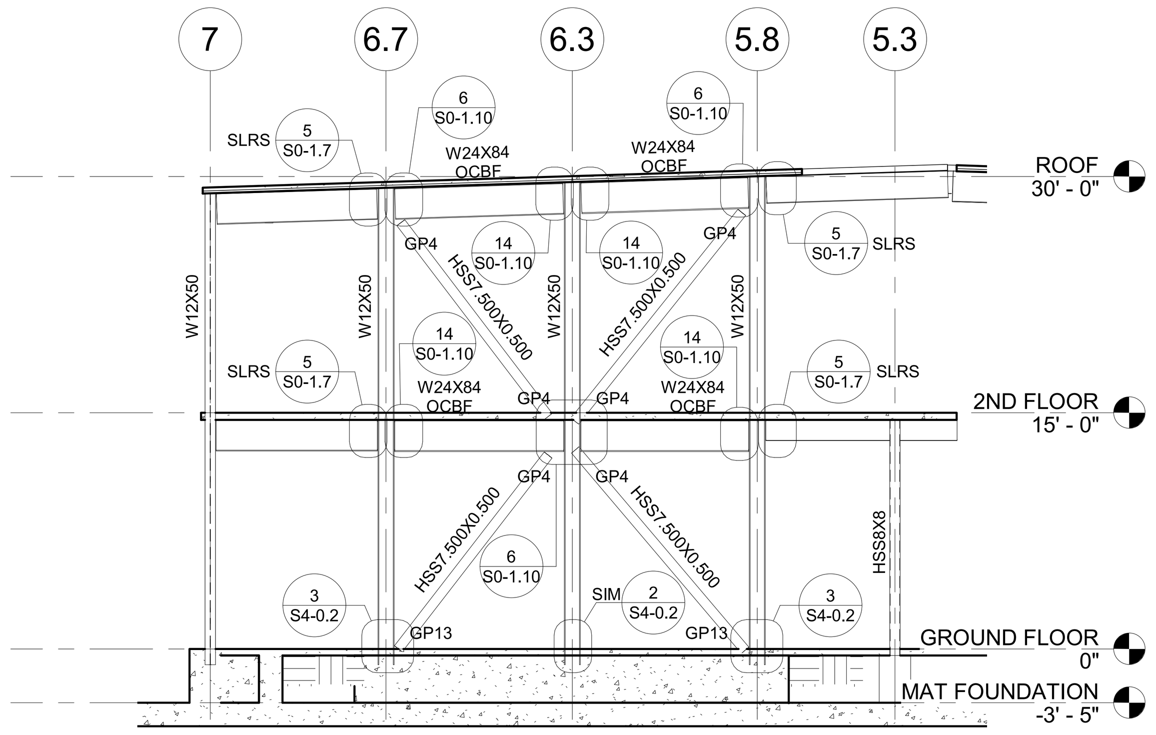
5. ALL BEAMS, COLS, BRACES, PLATES, ECT ARE PART OF THE SLRS.



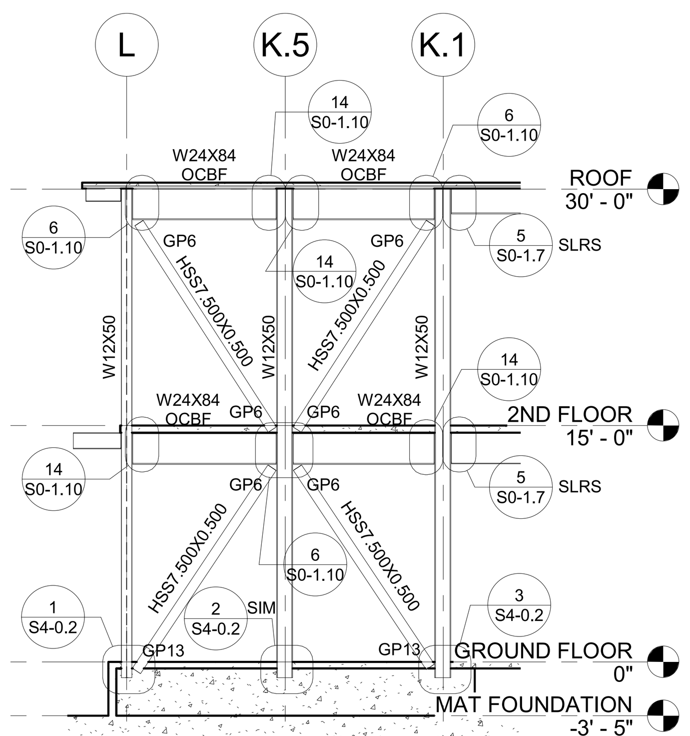
4 FRAME ELEVATION 1 (GL-7)
SCALE: 1/8" = 1'-0"



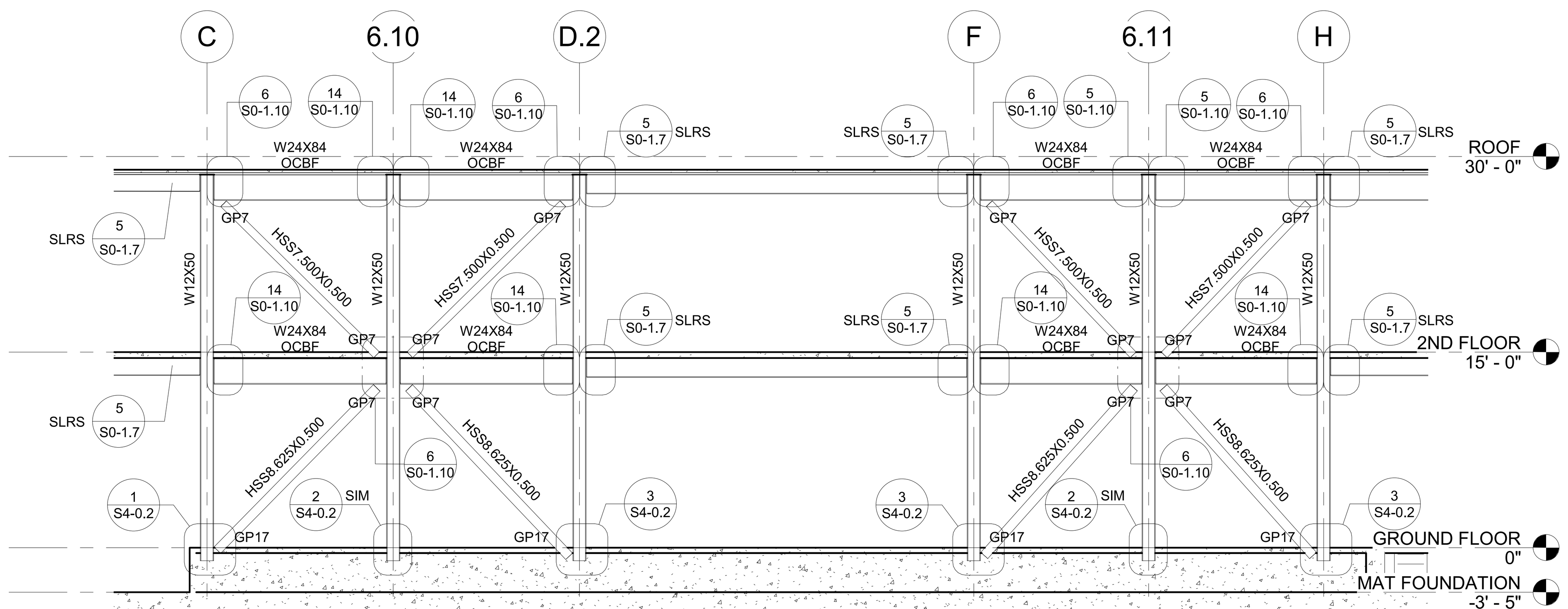
5 FRAME ELEVATION 2 (GL-7)
SCALE: 1/8" = 1'-0"



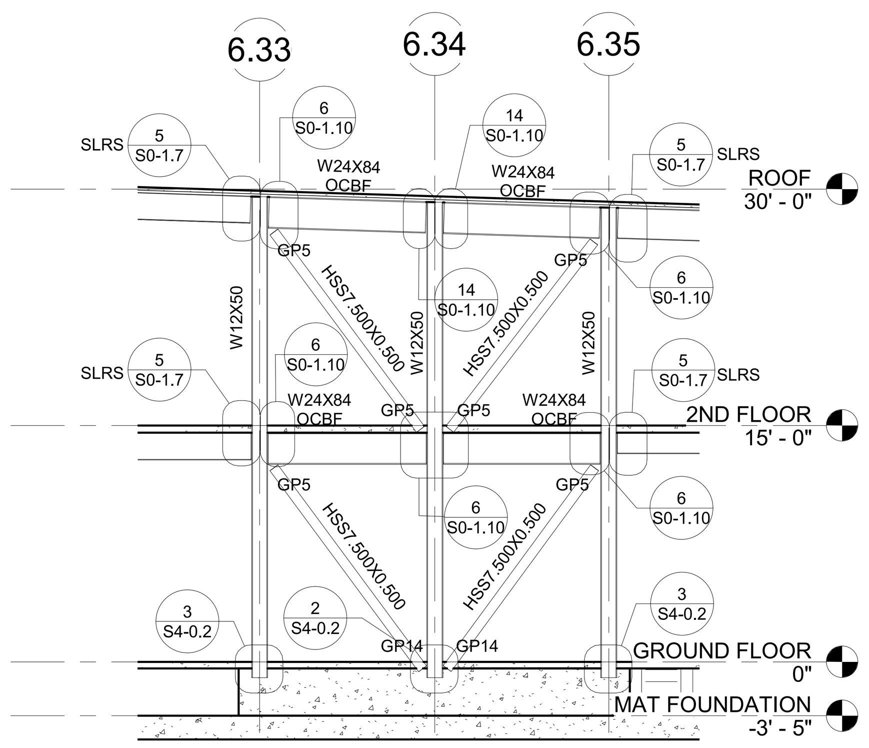
6 FRAME ELEVATION (GL-I.1)
SCALE: 1/8" = 1'-0"



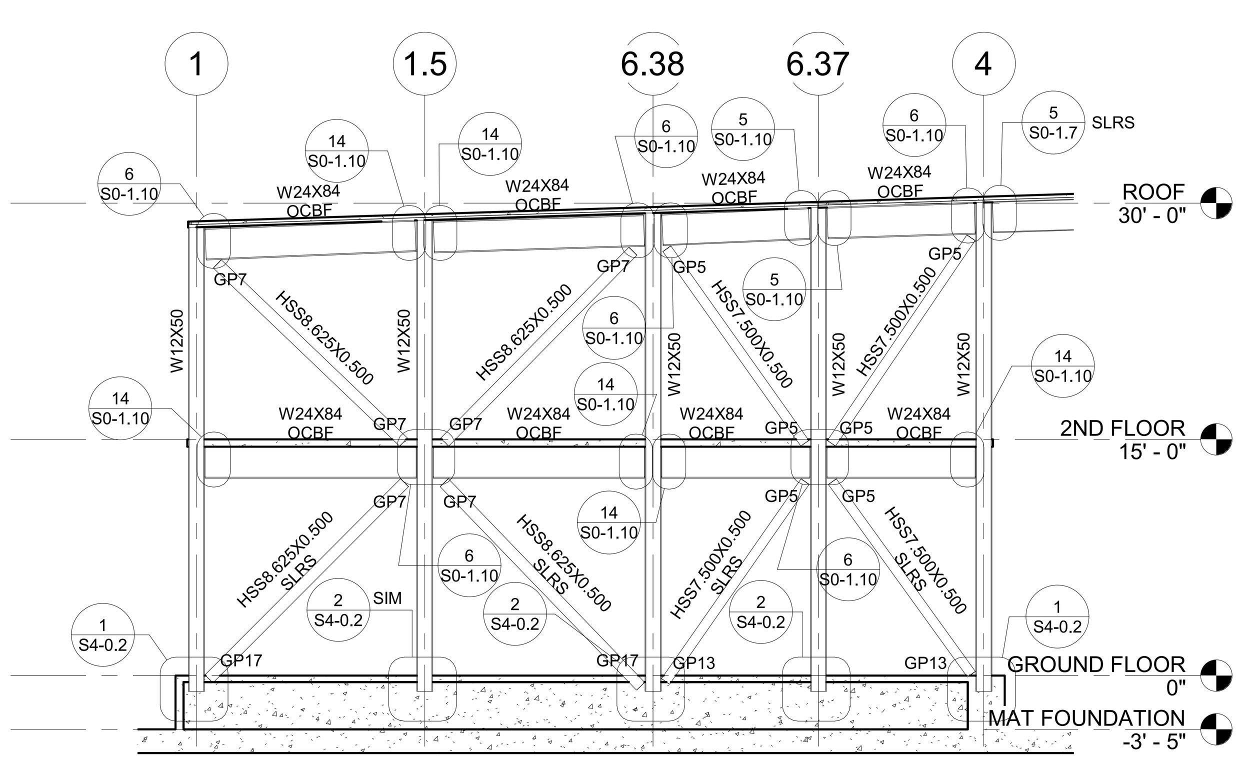
7 FRAME ELEVATION 1 (GL-4)
SCALE: 1/8" = 1'-0"



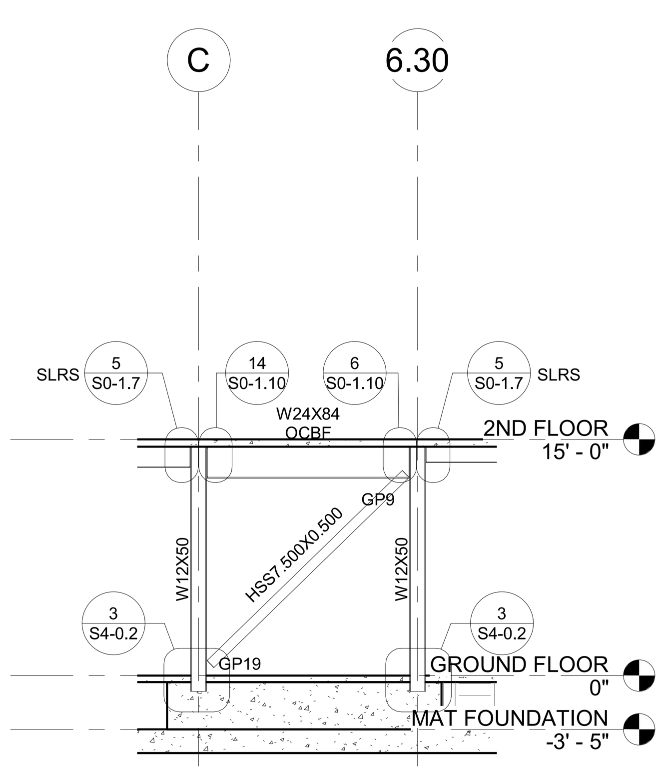
9 FRAME ELEVATION (GL-1.3)
SCALE: 1/8" = 1'-0"



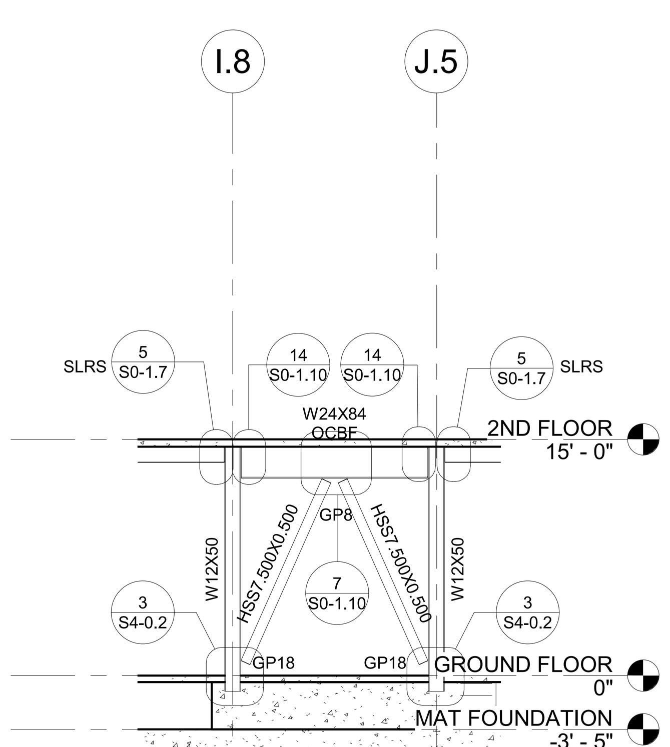
10 FRAME ELEVATION (GL-I)
SCALE: 1/8" = 1'-0"



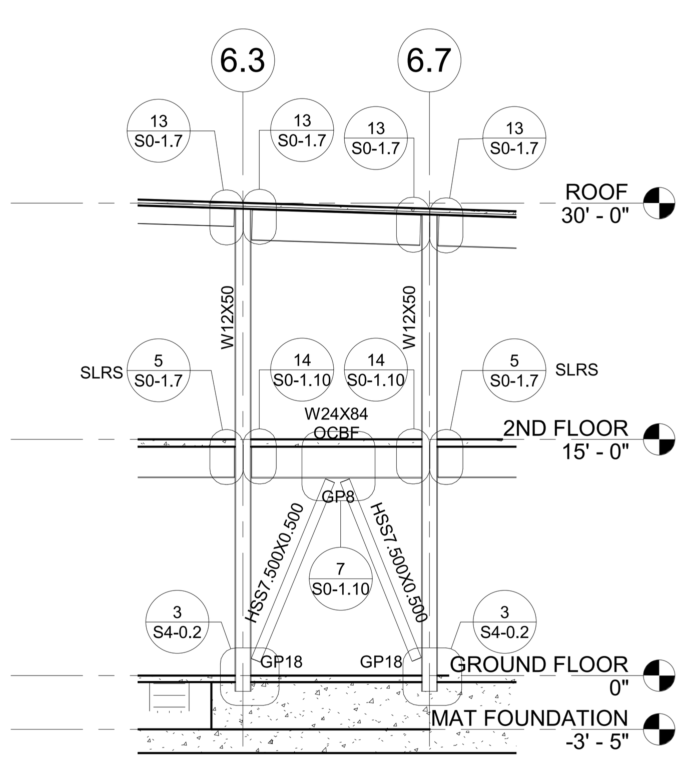
11 FRAME ELEVATION (GL-L)
SCALE: 1/8" = 1'-0"



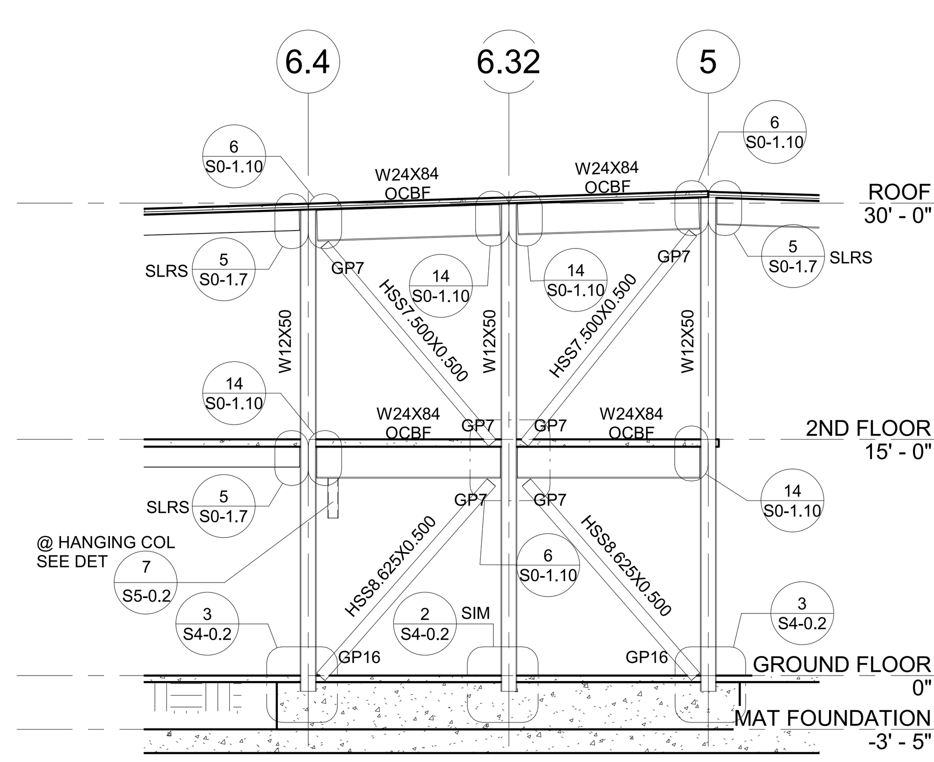
12 FRAME ELEVATION 2 (GL-4)
SCALE: 1/8" = 1'-0"



13 FRAME ELEVATION (GL-5.3)
SCALE: 1/8" = 1'-0"



14 FRAME ELEVATION (GL-K)
SCALE: 1/8" = 1'-0"



15 FRAME ELEVATION (GL-G)
SCALE: 1/8" = 1'-0"

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file name: CC_SS_Central.RVT

drawn by: A.N. checked by: A.Q.

date: 9.3.2019

rev:	date:	description:

drawing title:
FRAME ELEVATIONS

drawing no.:
S-6.1

GENERAL NOTES

1. ALL PRODUCTS AND EXECUTION OF WORK SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS AND AS SHOWN ON PLANS.

2. IN THE EVENT OF A DISCREPANCY BETWEEN CONTRACT DRAWINGS AND SPECIFICATIONS, THE MOST STRINGENT SHALL GOVERN.

3. ALL WORK TO BE IN ACCORDANCE WITH REQUIREMENTS OF GOVERNING FIRE, BUILDING, MECHANICAL, PLUMBING, AND ELECTRICAL CODES.

4. PRIOR TO SUBMISSION OF ANY BID, THE CONTRACTOR SHALL PERFORM A THOROUGH FIELD SURVEY OF THE EXISTING SITE CONDITIONS AND FEATURES. ANY SITE CONDITIONS WHICH MAY CAUSE SIGNIFICANT DEVIATION FROM THE DESIGN DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF ARCHITECT/ENGINEER OF RECORD FOR CLARIFICATION PRIOR TO SUBMISSION OF THE CONTRACTOR'S BID. VERIFY DIMENSIONS OF ALL PRODUCTS INCLUDING OWNER FURNISHED EQUIPMENT TO ENSURE PROPER COORDINATION WITH CONSTRUCTION. CONTRACTOR SHALL BEAR ALL COSTS FOR RELOCATION OF EQUIPMENT, PIPE, DUCTS, ETC. FROM FAILURE TO ADVISE OF CONFLICT IN WRITING PRIOR TO SUBMISSION OF ANY BID, AND/OR FROM FAILURE TO PROPERLY COORDINATE INSTALLATIONS OF SYSTEMS.

5. IF ANY PART OF THIS CONTRACTOR'S WORK DEPENDS UPON THE WORK OF A SEPARATE CONTRACTOR, THIS CONTRACTOR SHALL INSPECT SUCH OTHER WORK AND PROMPTLY REPORT IN WRITING TO THE OWNER ANY DEFECTS IN SUCH OTHER WORK THAT RENDERS IT UNSUITABLE TO PERFORM THE WORK OF THIS CONTRACTOR. FAILURE OF THIS CONTRACTOR TO SO INSPECT AND REPORT SHALL CONSTITUTE AN ACCEPTANCE OF THE OTHER CONTRACTOR'S WORK, EXCEPT AS TO DEFECTS WHICH MAY DEVELOP IN OTHER CONTRACTOR'S WORK AFTER EXECUTION OF THIS CONTRACTOR'S WORK.

6. MECHANICAL CONTRACTOR SHALL BE COGNIZANT WITH BUILDING STRUCTURE AND CEILING SPACE ALLOWED FOR INSTALLATION OF EQUIPMENT PRIOR TO BID, INCLUDE IN THE BID ADDITIONAL OFFSETS OF DUCTS AND PIPING THAT ARE NOT SHOWN ON DRAWING.

7. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ARCHITECT AND GC AND PROVIDING ALL CEILING ACCESS. PATCHING AND REPAIR REQUIRED IN THE IMMEDIATE AREA OF THE WORK AND ANY ACCESS OUTSIDE THE IMMEDIATE AREA OF THE WORK REQUIRED TO PROVIDE COMPLETE ACCESSIBLE AND PROPERLY FUNCTIONING SYSTEMS.

8. DUCT PENETRATIONS THROUGH FIRE OR SMOKE BARRIERS SHALL BE PROVIDED WITH PROPER CODE REQUIRED PROTECTION. ADVISE OWNER'S REPRESENTATIVE IN WRITING IN EVENT OF DISCREPANCIES BETWEEN CONTRACT DOCUMENTS PRIOR TO BID. CONTRACTOR SHALL BEAR ALL COSTS FOR ADDITIONAL DAMPERS FROM FAILURE TO ADVISE DISCREPANCIES PRIOR TO BID.

9. ALL DUCT DIMENSIONS ARE SHOWN IN INCHES. ALL DIMENSIONS ARE CLEAR INSIDE SIZES. FIRST FIGURE OF DUCT SIZE INDICATES DIMENSION OF FACE SHOWN OR INDICATED.

10. ALL DUCTWORK AND PIPING SHOWN ON PLANS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED TO DETERMINE EXACT LOCATION. EXACT LOCATION SHALL BE COORDINATED BY THE CONTRACTOR AND DIMENSIONED ON THE SHOP DRAWINGS.

11. CERTAIN VERTICAL AND HORIZONTAL DIMENSIONS ARE SHOWN IN DUCTS TO INDICATE THEIR GENERAL POSITION IN RELATIONSHIP TO THE SYSTEMS WITHIN THE SPACE AVAILABLE FOR SYSTEM INSTALLATION, PROVIDE ADDITIONAL OFFSETS SIMILAR TO THOSE SHOWN AS REQUIRED, AND COORDINATE WITH INSTALLATION REQUIREMENTS OF OTHER SYSTEMS AT NO ADDITIONAL COST TO OWNER.

12. IN LIEU OF RECTANGULAR DUCT AS SHOWN ON PLAN, CONTRACTOR HAS OPTION TO USE ROUND OR OVAL DUCTWORK WHERE SPACE PERMITS, SIZING SHALL BE BASED ON EQUAL FRICTION METHOD. FOR DUCTWORK ABOVE EXPOSED CEILINGS, REVISIONS SHALL BE APPROVED BY THE ARCHITECT.

13. COORDINATE REGISTER, DIFFUSER AND GRILLE LOCATIONS WITH CEILING SUPPORT MEMBERS AND LIGHTING FIXTURES. FINISHED CEILING CONFIGURATION SHALL FORM A FULLY INTEGRATED INSTALLATION IN EACH FINISHED SPACE; REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR REQUIRED COORDINATED LAYOUT.

14. INSTALL ALL PIPING AND DUCTWORK TO AVOID ARCHITECTURAL, FRAMING, STRUCTURAL MEMBERS. AND OTHER OBSTRUCTIONS. COORDINATE PIPING AND DUCTWORK LOCATION WITH ALL APPLICABLE CONTRACT DRAWINGS AND INSTALLATION WORK OF OTHER TRADES PRIOR TO PLACING SLEEVES IN FLOORS OR WALLS.

15. INSTALL ALL DUCTWORK CONCEALED IN FURRED WALL AND CEILING UNLESS OTHERWISE NOTED.

16. TOTAL AIR STATIC PRESSURE NOTED IN SCHEDULES INCLUDES DUCT SYSTEM, TERMINAL UNITS, FILTERS, COILS, ETC. IT DOES NOT INCLUDE INTERNAL CASING LOSS OR SYSTEM EFFECT UNLESS OTHERWISE NOTED. TOTAL AIR STATIC PRESSURE DOES NOT INCLUDE CONTRACTOR'S DEVIATIONS FROM CONTRACT DOCUMENT.

17. SCHEDULE ALL WORK WITH THE FACILITY INCLUDING CONSTRUCTION ACCESS AND STORAGE. THE CONSTRUCTION SCHEDULE PROCEDURE SHALL BE APPROVED BY THE FACILITY PRIOR TO THE START OF CONSTRUCTION.

18. CONTRACTOR SHALL PROVIDE DUST COVERS AS REQUIRED TO CONTAIN DUST AND DEBRIS WITHIN CONSTRUCTION AREA. BROOM CLEAN ALL AREAS EACH DAY. KEEP DIRT AND DUST TO A MINIMUM.

19. WORK SHALL BE EXECUTED IN A CAREFUL AND ORDERLY MANNER WITH THE LEAST POSSIBLE DISTURBANCE TO THE PUBLIC AND OCCUPANTS OF THE FACILITY.

20. CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR SAFETY OF ALL PERSONS ON OR ABOUT THE CONSTRUCTION SITE, IN ACCORDANCE WITH APPLICABLE LAWS AND CODES. GUARD ALL HAZARDS IN ACCORDANCE WITH THE SAFETY PROVISIONS OF THE LATEST MANUAL OF ACCIDENT PREVENTION PUBLISHED BY THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA AND OSHA.

21. SECURELY FASTEN ALL PIPING AND DUCTWORK WITHIN STRUCTURES TO THE BUILDING CONSTRUCTION BY MEANS OF HANGERS, SUPPORTS, GUIDE ANCHORS, AND SWAY BRACE SEISMIC RESTRAINTS TO MAINTAIN ALIGNMENT. TO PREVENT SAGGING, AND TO PREVENT NOISE AND EXCESSIVE STRAIN DUE TO MOVEMENT UNDER OPERATING CONDITIONS. COORDINATE ANCHORING POINTS TO ASSURE STRUCTURAL INTEGRITY DURING NORMAL OPERATION AND SEISMIC EVENTS.

22. PIPE SUPPORTS SHALL BE DESIGNED TO INCLUDE THE WEIGHT OF THE PIPE, FITTINGS, VALVES, AND WEIGHT OF THE CONTENTS OF THE PIPE.

23. INSTALL WALL-MOUNTED ROOM THERMOSTATS SO THEY ARE ACCESSIBLE IN ACCORDANCE WITH T-24 AND REASONABLE INTERPRETATIONS OF ADA. OTHERWISE, COORDINATE INSTALLATION LOCATION AND HEIGHT WITH ALL TRADES PRIOR TO THERMOSTAT ROUGH-IN.

24. PROVIDE FLEXIBLE CONNECTIONS AT ALL VIBRATION ISOLATED EQUIPMENT AND AS INDICATED ON FLOW DIAGRAMS, DETAILS, AND AS OTHERWISE SPECIFIED.

25. PROVIDE A TIGHT SEAL OF INCOMBUSTIBLE MATERIAL (U.L. APPROVED) AROUND ALL DUCTWORK AND PIPING WHICH PENETRATE FIRE SEPARATIONS.

26. COORDINATE THE LOCATION AND QUANTITY OF ALL ACCESS PANELS. PANELS ARE REQUIRED IN CEILINGS FOR ALL TERMINAL BOXES, DAMPERS, VALVES, CONTROLS, AND OTHER ITEMS REQUIRING ROUTINE MAINTENANCE OR ADJUSTMENT, AND SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH ARCHITECTURAL SPECIFICATIONS. WHERE ACCESS PANELS ARE NOT SHOWN FOR VOLUME DAMPER ACCESS, PROVIDE CEILING MOUNTED REMOTE OPERATED VOLUME DAMPER CONTROL.

27. PROVIDE PIPE SUPPORTS NOT MORE THAN 12 INCHES FROM THE POINT OF CHANGE OF DIRECTION OF A PIPE RUN IN BOTH HORIZONTAL AND VERTICAL PLANES.

28. PROVIDE OPERATING HANDLES FOR ALL VALVES AND COCKS SUPPLIED WITHOUT INTEGRAL OPERATORS.

29. ALL PIPE SIZES ARE IN INCHES. PIPE SIZES NOT SHOWN ON PLAN SHALL BE SIZED NOT TO EXCEED 3-FEET OF HEAD PER 100-FEET LENGTH.

30. PROVIDE VALVES AND OTHER PIPING SPECIALTIES SAME SIZE AS LINE SIZE UNLESS OTHERWISE NOTED.

31. FURNISH AND INSTALL MANUAL AIR DAMPERS AT ALL DUCT BRANCH TAKEOFFS TO A SINGLE SUPPLY DIFFUSER.

FIRE MARSHAL NOTES

1. FIRE DAMPERS AND COMBINATION FIRE/SMOKE DAMPERS SHALL BE INSTALLED STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. MANUFACTURER'S INSTRUCTIONS SHALL BE MADE AVAILABLE TO THE INSPECTING AUTHORITY. DETAILS SHOWN ARE FOR REFERENCE ONLY.

2. AIR MOVING SYSTEMS SUPPLY AN EXCESS OF 2000 CUBIC FEET PER MINUTE (CFM) TO ENCLOSED SPACES WITHIN BUILDINGS SHALL BE EQUIPPED WITH AN AUTOMATIC SHUTOFF. AUTOMATIC SHUTOFF SHALL BE ACCOMPLISHED BY INTERRUPTING THE POWER SOURCE IF THE AIR-MOVING EQUIPMENT UPON DETECTION OF SMOKE IN THE MAIN SUPPLY-AIR DUCT SERVED BY SUCH EQUIPMENT. SEE EXCEPTION (608.1, CMC).

3. WHEN THE AUTOMATIC ACTIVATION OF A FIRE/SMOKE DAMPER OCCURS, THE HVAC SYSTEM SERVING SUCH DAMPERS SHALL IMMEDIATELY SHUT DOWN. THE HVAC SYSTEM SHALL NOT BE RESTARTED AGAIN UNTIL ALL SUCH DAMPERS ARE RESET AND FULLY OPENED.

4. COMPLIANCE WITH THE 2016 CMC REQUIREMENT 608 (PREVIOUSLY 609) SHALL BE MET FOR AIR HANDLING UNITS (AHU) / AIR MOVING SYSTEM GLOBAL / AGGREGATE SIMULTANEOUS SMOKE SHUTDOWN OF AREA SERVED PER CSFM INTERPRETATION # 02-024 & 08-065 UPON ACTIVATION OF ANY SINGLE DUCT SMOKE DETECTOR.

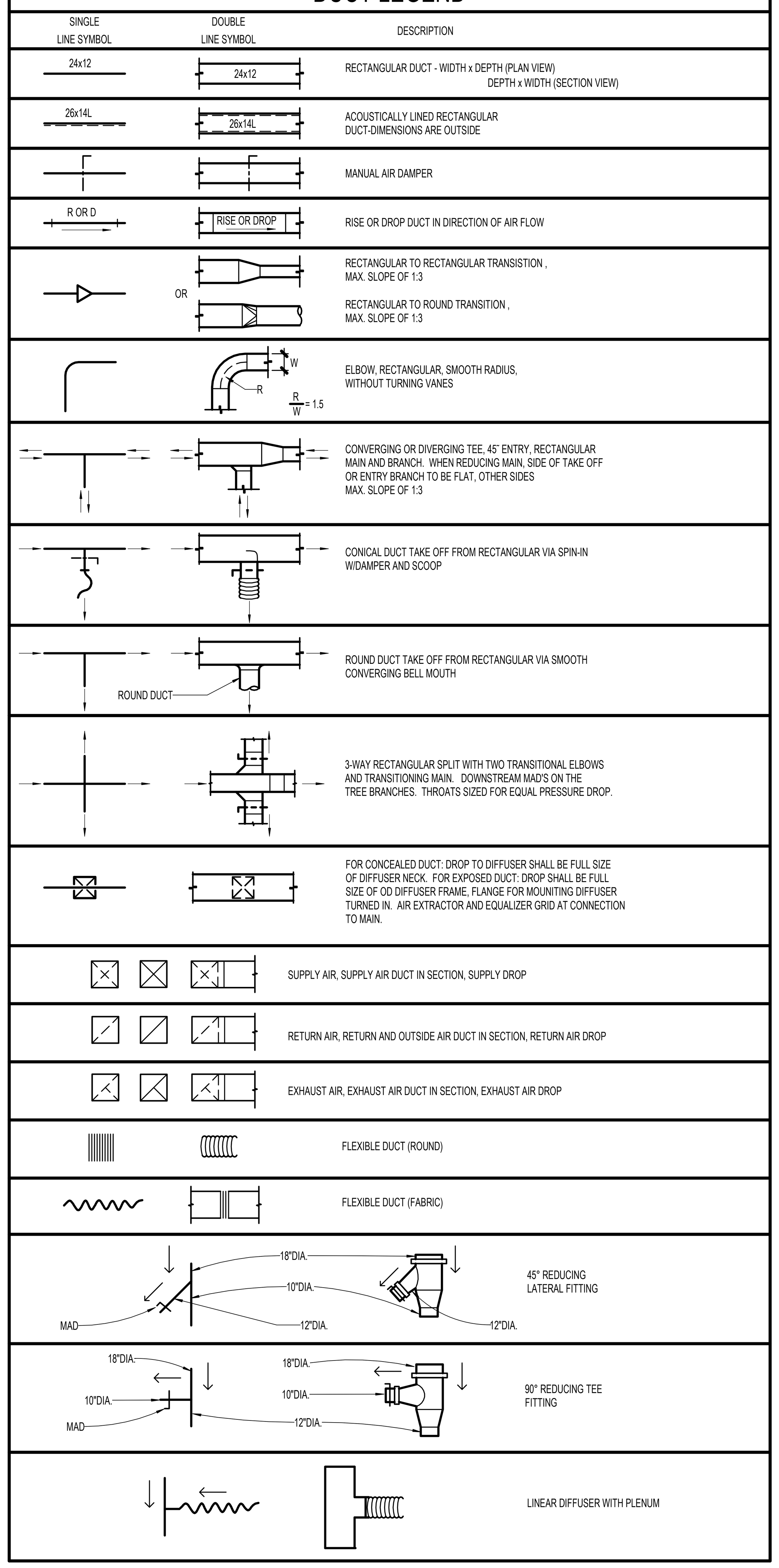
5. ALL AHU / HVAC UNIT DUCT-SMOKE DETECTORS SHALL BE CONNECTED TO BUILDING FIRE ALARM PANEL TO INITIATE A SUPERVISORY SIGNAL UPON ACTIVATION, BE INTERCONNECTED AND SHALL ALL SHUT DOWN SIMULTANEOUSLY UPON ACTIVATION OF ANY ONE SINGLE DETECTOR.

6. ALL AHU / HVAC UNIT DUCT-SMOKE DETECTORS SHALL BE TESTED BY MANOMETER TO INSURE AIR VOLUME AND VELOCITIES ARE WITHIN THE TOLERANCE SPECIFICATIONS OF THE RATINGS REQUIRED BY THE MANUFACTURER'S DATA ON EACH DUCT-SMOKE DETECTOR INSTALLED WITHIN THE UNIT / DUCTWORK PER 2016 NFPA 72-17.7.4 & 2016 CMC 608.

MECHANICAL SHEET LIST

SHEET NUMBER	SHEET NAME
M0-1	LEGEND, ABBR., & GENERAL NOTES
M0-2	MECHANICAL SCHEDULES
M0-4	TITLE 24 COMPLIANCE
M0-5	TITLE 24 COMPLIANCE
M0-6	TITLE 24 COMPLIANCE
MZ1-1	MECHANICAL ZONING PLAN FIRST FLOOR PLAN
MZ1-2	MECHANICAL ZONING PLAN SECOND FLOOR PLAN
M1-1	MECHANICAL FIRST FLOOR PLAN
M1-2	MECHANICAL SECOND FLOOR PLAN
M3-1	MECHANICAL ROOF PLAN
M4-1	MECHANICAL SECTIONS
M5-1	CONTROLS
M5-2	CONTROLS
M5-3	CONTROLS
M7-1	DETAILS
M7-2	DETAILS
M7-3	DETAILS
M7-4	DETAILS
M7-5	DETAILS
MP1-1	MECHANICAL PIPING FIRST FLOOR PLAN
MP1-2	MECHANICAL PIPING SECOND FLOOR PLAN
MP3-1	MECHANICAL PIPING ROOF PLAN

DUCT LEGEND



SINGLE LINE SYMBOL	DOUBLE LINE SYMBOL	DESCRIPTION
24x12	24x12	RECTANGULAR DUCT - WIDTH x DEPTH (PLAN VIEW) DEPTH x WIDTH (SECTION VIEW)
26x14L	26x14L	ACOUSTICALLY LINED RECTANGULAR DUCT-DIMENSIONS ARE OUTSIDE
		MANUAL AIR DAMPER
R OR D	RISE OR DROP	RISE OR DROP DUCT IN DIRECTION OF AIR FLOW
OR		RECTANGULAR TO RECTANGULAR TRANSITION, MAX. SLOPE OF 1:3 RECTANGULAR TO ROUND TRANSITION, MAX. SLOPE OF 1:3
	W, R, R/W = 1.5	ELBOW, RECTANGULAR, SMOOTH RADIUS, WITHOUT TURNING VANES
		CONVERGING OR DIVERGING TEE, 45° ENTRY, RECTANGULAR MAIN AND BRANCH. WHEN REDUCING MAIN, SIDE OF TAKE OFF OR ENTRY BRANCH TO BE FLAT, OTHER SIDES MAX. SLOPE OF 1:3
		CONICAL DUCT TAKE OFF FROM RECTANGULAR VIA SPIN-IN W/DAMPER AND SCOOP
ROUND DUCT		ROUND DUCT TAKE OFF FROM RECTANGULAR VIA SMOOTH CONVERGING BELL MOUTH
		3-WAY RECTANGULAR SPLIT WITH TWO TRANSITIONAL ELBOWS AND TRANSITIONING MAIN. DOWNSTREAM MAD'S ON THE TREE BRANCHES. THROATS SIZED FOR EQUAL PRESSURE DROP.
		FOR CONCEALED DUCT: DROP TO DIFFUSER SHALL BE FULL SIZE OF DIFFUSER NECK. FOR EXPOSED DUCT: DROP SHALL BE FULL SIZE OF OD DIFFUSER FRAME, FLANGE FOR MOUNTING DIFFUSER TURNED IN. AIR EXTRACTOR AND EQUALIZER GRID AT CONNECTION TO MAIN.
		SUPPLY AIR, SUPPLY AIR DUCT IN SECTION, SUPPLY DROP
		RETURN AIR, RETURN AND OUTSIDE AIR DUCT IN SECTION, RETURN AIR DROP
		EXHAUST AIR, EXHAUST AIR DUCT IN SECTION, EXHAUST AIR DROP
		FLEXIBLE DUCT (ROUND)
		FLEXIBLE DUCT (FABRIC)
MAD; 18"DIA; 10"DIA; 12"DIA		45° REDUCING LATERAL FITTING
18"DIA; 10"DIA; MAD	18"DIA; 10"DIA; 12"DIA	90° REDUCING TEE FITTING
		LINEAR DIFFUSER WITH PLENUM

MECHANICAL LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	ABBR	ABBREVIATIONS
	ABV	ABOVE
	ABC	ABOVE CEILING
	AF	ABOVE FLOOR
	AFF	ABOVE FINISHED FLOOR
	AFG	ABOVE FINISHED GRADE
	AD , AP	ACCESS DOOR , ACCESS PANEL
	AC	AIR CONDITIONING
	AHU	AIR HANDLING UNIT
	APD	AIR PRESSURE DROP, INCHES WATER COLUMN
	AB	ANCHOR BOLT
	ANV	ANGLE VALVE
	AAV	AUTOMATIC AIR VENT
	BV	BALL VALVE
	BDD	BACK DRAFT DAMPER
	BFP	BACKFLOW PREVENTER
	BF	BELOW FLOOR
	BHP	BRAKE HORSE POWER
	BTU(H)	BRITISH THERMAL UNITS (PER HOUR)
	BFV	BUTTERFLY VALVE
BPT	BPT	BYPASS TIMER
	CBV	CALIBRATED BALANCE VALVE
	CC	CENTER TO CENTER
	CLG	CEILING
	CEF	CEILING EXHAUST FAN
	CKV	CHECK VALVE
CHWS	CHWS	CHILLED WATER SUPPLY PIPING
CHWR	CHWR	CHILLED WATER RETURN PIPING
	CP	CIRCULATING PUMP
	CLR	CLEAR
	CONC	CONCRETE
		CONCENTRIC REDUCER
CD	CD	CONDENSATE DRAIN
	COND	CONDENSER
	CONN	CONNECT OR CONNECTION
	CONT	CONTINUATION
	CONTR	CONTRACTOR
	CFM	CUBIC FEET OF AIR FLOW PER MINUTE
	DPR	DAMPER
°F		DEGREES FAHRENHEIT
Ø	DIA	DIAMETER , PHASE
	DL	DOOR LOUVER
	DN	DOWN
	DR	DRAIN
	DB	DRY BULB (DEGREES FAHRENHEIT)
DS	DS	DYNAMIC SENSOR
		ECCENTRIC REDUCER
	EP	ELECTRICAL PANEL
	EL	ELEVATION
	ENT	ENTERING
	EDB	ENTERING DRY BULB
	EW	ENTERING WATER
	EWT	ENTERING WATER TEMPERATURE
	EWB	ENTERING WET BULB
	EVAP	EVAPORATOR
	EC	EVAPORATIVE COOLER
	EA	EXHAUST AIR
	EAD	EXHAUST AIR DAMPER
	EF	EXHAUST FAN
	(E), EXIST	EXISTING
	(E)	EXISTING TO BE REMOVED
	ESP	EXTERNAL STATIC PRESSURE
	FPM	FEET PER MINUTE
	FIN	FINISH
F	FD	FIRE DAMPER
FS	FS	FIRE/SMOKE DAMPER
	FC	FLEXIBLE CONNECTION
	FLR	FLOOR
		FLOW IN DIRECTION OF ARROW
	FLV	FLOW LIMITING VALVE
	FA	FROM ABOVE
	FB	FROM BELOW
	FLA	FULL LOAD AMPS
	GCK	GAGE COCK
	GPH	GALLONS PER HOUR
	GPM	GALLONS PER MINUTE
	GV	GATE VALVE
	GLV	GLOBE VALVE
	GALV	GALVANIZED
	GI	GALVANIZED IRON
	GA	GAUGE
	HTG	HEATING
HWS	HWS	HOT WATER SUPPLY PIPING
HWR	HWR	HOT WATER RETURN PIPING

MECHANICAL LEGEND cont'd

SYMBOL	ABBREVIATION	DESCRIPTION
	IE	INVERT ELEVATION
	KW	KILOWATTS
	KWH	KILOWATT HOUR
	KXA	KITCHEN EXHAUST AIR
	LDB	LEAVING DRY BULB IN DEGREES FAHRENHEIT
	LWB	LEAVING WET BULB IN DEGREES FAHRENHEIT
	LRA	LOCKED ROTOR AMPERES
	LVR	LOUVER
	MA	MAKE UP AIR
	MAD, MD	MANUAL AIR DAMPER
	MAV	MANUAL AIR VENT
	MFR	MANUFACTURER
	MAX	MAXIMUM
	MIN	MINIMUM
	MCC	MOTOR CONTROL CENTER
	(N)	NEW
	OC	ON CENTER
	OSA	OUTSIDE AIR
	OD	OUTSIDE DIAMETER
	OV	OUTLET VELOCITY
	OH	OVERHEAD
		PETE'S PLUG
		PIPE ANCHOR
		PIPE DROP
		PIPE GUIDE
		PIPE RISE
		PITCH DOWN IN DIRECTION OF FLOW
	POC	POINT OF CONNECTION
	LBS	POUNDS
	PSI (G) (A)	POUNDS PER SQUARE INCH (GAUGE) (ABSOLUTE)
	PD	PRESSURE DROP
	PG	PRESSURE GAUGE
	PRV	PRESSURE REDUCING VALVE
RG	RG	REFRIGERANT GAS PIPING
RS	RS	REFRIGERANT SUCTION PIPING
RL	RL	REFRIGERANT LIQUID PIPING
	RV or P&TRV	RELIEF VALVE OR PRESSURE & TEMPERATURE RELIEF VALVE
	RA	RETURN AIR
	RAD	RETURN AIR DAMPER
	RPM	REVOLUTIONS PER MINUTE
	RLA	RUNNING LOAD AMPERES
	SB	SECURITY BARS
	SM	SHEET METAL
	SWR	SIDE WALL REGISTER
SD	SD	SMOKE DAMPER
SD	SKD	SMOKE DETECTOR
	SQFT, FT2	SQUARE FEET
	SQIN, IN2	SQUARE INCHES
	SP	STATIC PRESSURE
	SPD	STATIC PRESSURE DROP
	STR	STRAINER
	SA	SUPPLY AIR
	SF	SUPPLY FAN
	TCP	TEMPERATURE CONTROL PANEL
	TCV	TEMPERATURE CONTROL VALVE
TS X		TEMPERATURE SENSOR, "X" INDICATES DEVICE CONTROLLED
		THERMOMETER
T X	T	THERMOSTAT, "X" INDICATES DEVICE CONTROLLED
	MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
	TA	TO ABOVE
	TB	TO BELOW
	TD	TRANSFER DUCT
	TP	TOTAL PRESSURE
	TSP	TOTAL STATIC PRESSURE
	TYP	TYPICAL
	UG	UNDERGROUND
	UCD	UNDER CUT DOOR
	UON	UNLESS OTHERWISE NOTED
	VFD	VARIABLE FREQUENCY DRIVE
	VLV	VALVE
		VALVE IN RISER (TYPE AS INDICATED OR NOTED)
		VALVE IN VALVE BOX
	WPD	WATER PRESSURE DROP
	W	WATTS
	WT	WEIGHT
	WB	WET BULB
	WMS	WIRE MESH SCREEN
	WP	WORKING PRESSURE
		2-WAY CONTROL VALVE
		3-WAY CONTROL VALVE

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE ATTACHEMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT THE ATTACHMENT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.

B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTION SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

GREEN BUILDING CODE NOTES

1. A FINAL REPORT FOR THE TESTING AND ADJUSTING OF ALL NEW SYSTEMS SHALL BE COMPLETED PRIOR TO FINAL APPOROVAL BY THE FIELD INSPECTOR. THIS REPORT SHALL BE SIGNED BY THE INVIDIVIDUAL RESPONSIBLE FOR PERFORMING THESE SERVICES.
2. AN OPERATING & SYSTEMS MANUAL SHALL BE PROVIDED TO THE OWNER OR REPRESENTATIVE AND TO THE FIELD INSPECTOR AT THE TIME OF FINAL INSPECTION.
3. IF THE NEW HVAC SYSTEM IS USED DURING CONSTRUCTION, USE RETURN AIR FILTERS WITH A MERV OF 8. REPLACE ALL FILTERS IMEEDIATELY PRIOR TO OCCUPANCY.
4. ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENING SHALL BE COVERED WITH TAPE, PLASTIC, OR SHEET METAL UNTIL THE FINAL STARTUP OF THE HEATING, COOLING AND VENTILATING EQUIPMENT.
5. THE HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT SHALL NOT CONTAIN CFC OR HALONS.
6. HVAC AND WATER SYSTEMS TO BE BALANCED PER AABBC STANDARDS.
7. SYSTEM DESCRIPTION: HVAC SYSTEM CONSIST OF MULTIPLE ZONE VARIABLE VOLUME & CONSTANT VOLUME AIR HANDLING SYSTEMS AND STAND ALONE SPLIT SYSTEM DX UNITS.

PIPING, DUCTWORK & ELECTRICAL DISTRIBUTION SYSTEM EMBRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8, AND 2016 CBC, SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON PREAPPROVED INSTALLATION GUIDE (e.g., SMACNA OR OSHPD OPM). COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP ☐ MD ☐ PP ☐ E ☐ — OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS

MP ☒ MD ☐ PP ☐ E ☐ — OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM #) # OPM-0052-13

MP ☐ MD ☒ PP ☐ — OPTION 3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL. OSHPD EDITION (2009), INCLUDING ANY ADDENDA. FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL A AND CONNECTION LEVEL 1 FOR THE PROJECT AND CONDITIONS.

DSA NOTES

1. ALL WORK SHALL CONFORM TO 2016 EDITION TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
2. THE SCOPE OF WORK; CLEARLY INDICATED THE SCOPE OF WORK ON THE COVER SHEET OR GENERAL NOTE SHEET OF THE DRAWINGS.
3. FABRICATION AND INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTOR'S DRAWINGS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS FOR THE ACTUAL SYSTEMS TO BE INSTALLED HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER AND APPROVED BY THE DSA. LIST DEFERRED SUBMITTAL ITEMS FOR THIS PROJECT.
4. CHANGE TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DSA, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
5. A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.
6. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
7. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24; CCR)
8. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-119686 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 10/14/2019

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architect

CAPITAL ENGINEERING CONSULTANTS, INC.
LONG BEACH, CALIFORNIA
RH - TS/SL/DV 170822.00
PM - DESIGN TEAM PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
M 34011
EXPIRES 3/30/20
MECHANICAL
STATE OF CALIFORNIA
DATE SIGNED: 08/16/19
consultant

COMPTON COLLEGE
STUDENT SERVICES BLDG.
COMPTON COMMUNITY COLLEGE DISTRICT
1111 E. ARTESIA BLVD.
COMPTON, CA 90221
owner

tBP project number: 20987.00
file name: CECI_COMPTON CC STUDENT SERVICES_MP18_CENTRAL.RVT
drawn by: CECI checked by: CM
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drawing title:
LEGEND, ABBR., & GENERAL NOTES

drawing no.:
M0-1

AIR HANDLING UNIT SCHEDULE

MODEL NO.	UNIT TAG	LOCATION	MANUFACTURER	SUPPLY AIR FANS: FAN TYPE	SIZE (IN)	SA CFM	ESP (IN WG)	%Eff	Number of Fans	BHP EACH FAN	MOTOR HP EACH FAN	ELECTRICAL Volts/Phase/Hz	RETURN/EXHAUST AIR FANS: FAN TYPE	SIZE (IN)	RA CFM	ESP (IN WG)	%EFF	Number of Fans	BHP EACH FAN	MOTOR HP EACH FAN	ELECTRICAL Volts/Phase/Hz	COOLING COILS: EAT DB (F)	EAT WB (F)	LAT DB (F)	LAT WB (F)	TOTAL CAP (MBH)	COIL AREA (SF)	FLOW (GPM)	EWT (F)	HEATING COILS: EAT DB (F)	LAT DB (F)	TOTAL CAP MBH	COIL AREA (SF) EACH	FLOW (GPM)	EWT (F)	LWT (F)	MIN OSA CFM	FILTERS PRE-FILTERS MERV 8 (SF)	UNIT WEIGHT (LBS)	REMARKS	MTG. DTL.
C102102-FC-L	AHU-1	ROOF	ENERGY LABS	PLUG FAN	22.2	25,000	2.50	91.7	4	8.81	10	460/3/60	PLUG FAN	20.0	25,000	1.25	89.5	4	3.25	5	460/3/60	71.5	63.0	48.3	48.3	1,045	87	209	44	-	-	-	-	-	-	-	8,750	66	19,700	1-7	1/M7-1
C10282-FC-L	AHU-2	ROOF	ENERGY LABS	PLUG FAN	18.2	19,000	2.50	91.7	4	6.7	7.5	460/3/60	PLUG FAN	20.0	19,000	1.25	89.5	4	2.5	3	460/3/60	71.5	63.0	48.6	48.6	766	66	153	44	-	-	-	-	-	-	-	6,650	66	16,500	1-7	1/M7-1

1. WITHIN THE AIR HANDLING UNITS SOUND TRAPS SHALL BE PROVIDED ON THE INLET SECTION OF THE RETURN AIR FAN AND ON THE OUTLET SECTION OF THE SUPPLY AIR FAN.
2. PROVIDE FACTORY APPLIED ANTI-CORROSION COATING FOR MAINE REQUIREMENT.
3. ALL FAN MOTORS SHALL BE EQUIPPED WITH VFD SYSTEM.
4. SINGLE-POINT ELECTRICAL POWER SUPPLY FOR 480 V (MOTRS & COMPRESSORS) AND 120V (LIGHTS & CONTROLS).
5. MODULATING ECONOMIZER OUTSIDE AND RETUR AIR DAMPER.
6. MAGNEHELIC GAGUE.
7. CONNECT TO FACILITY'S EXISTING BAS. COORDINATE WITH BUILDING FACILLITY FOR COMPATIBILITY.

AIR DISTRIBUTION SCHEDULE

SUPPLY: TAGGED	AIRFLOW RANGE	NECK SIZE: ROUND	SQUARE	RETURN/EXHAUST: TAGGED	AIRFLOW RANGE	NECK SIZE: ROUND	SQUARE
CD	100	6" DIA		RG,CE	100	6" DIA	
	120		6x6		120		6x6
	170	8" DIA			170	8" DIA	
	220		8x8		220		8x8
	270	10" DIA			270	10" DIA	
	340		10x10		340		10x10
	390	12" DIA			390	12" DIA	
	500		12x12		500		12x12
	530	14" DIA			530	14" DIA	
	690	16" DIA			690	16" DIA	
_x_SG/SR	7	7		_x_RG/EG	7	7	

NOTE:

1. AIRFLOW RANGE SELECTION ARE BASED ON NECK VELOCITY OF 500 FPM.
2. SUPPLY DIFFUSER THROWS SHALL BE 4-WAY DISCHARGE PATTERN UNLESS OTHERWISE INDICATED ON THE PLAN.
3. AIR DISTRIBUTION TYPE.

APPLICATION	SUPPLY MANUFACTURER: TITUS	PRICE	KRUEGER	NOTE	RETURN/EXHAUST MANUFACTURER: TITUS	PRICE	KRUEGER	NOTE
LAY-IN CEILING	PAS, PMC	PDS	1240P	8	PAR	PDDR	6690	8
HARD LID CEILING	PAS	PDDS	1240PE	9	PAR	PDDR	6490, 6690	9
WALL MOUNTED	350	540	880	5	300	710	S80	6
OPEN SPACE	TMR	RCD	RM1	7				

NOTE:

4. LINEAR AIR DIFFUSER, REFER TO SPECIFICATION AND FLOOR PLAN.
5. GRILLE SHALL HAVE ADJUSTABLE DOUBLE DEFLECTION BLADES. SEE FLOOR PLAN FOR SIZE.
6. GRILLE SHALL HAVE ZERO (0) AND SINGLE DEFLECTION BLADE. REFER TO FLOOR PLAN FOR SIZE.
7. SIZE AND AIRFLOW INFORMATION SHALL BE AS SHOWN ON FLOOR PLAN.
8. FACE MODULE SIZE SHALL BE 24x24
9. FACE MODULE SIZE BASED ON AIR DISTRIBUTION STANDARD DIMENSION.

AIR TERMINAL UNIT (VAV) SCHEDULE

UNIT TAG: TYPE	MARK	AHU SERVED	FLOOR LEVEL	AREA SERVED	"TITUS" ESV SERIES	MAX COOLING CFM	MAX TOTAL AIR PRESSURE DROP	2-ROW REHEAT COIL: MBH	GPM	PD (FT H2O)	CO2	WT
VAV	1-101	AHU-1	Level 1		8	480	0.5	5.5	0.5	0.00	Yes	35
VAV	1-102	AHU-1	Level 1		6	250	0.5	2.8	0.5	0.00	No	30
VAV	1-103	AHU-1	Level 1		6	240	0.5	2.7	0.5	0.00	No	30
VAV	1-104	AHU-1	Level 1		6	350	0.5	4.0	0.5	0.00	No	30
VAV	1-105	AHU-1	Level 1		6	250	0.5	2.8	0.5	0.00	No	30
VAV	1-106	AHU-1	Level 1		8	500	0.5	5.7	0.5	0.00	No	35
VAV	1-107	AHU-1	Level 1		7	420	0.5	4.8	0.5	0.00	No	35
VAV	1-108	AHU-1	Level 1		12	1280	0.5	14.6	1	0.00	Yes	50
VAV	1-109	AHU-1	Level 1		12	1600	0.5	18.2	1.2	0.00	Yes	50
VAV	1-110	AHU-1	Level 1		8	620	0.5	7.1	0.5	0.00	No	35
VAV	1-111	AHU-1	Level 1		8	370	0.5	5.1	0.5	0.00	No	35
VAV	1-112	AHU-1	Level 1		8	510	0.5	5.8	0.5	0.00	No	35
VAV	1-113	AHU-1	Level 1		8	620	0.5	7.1	0.5	0.00	No	35
VAV	1-114	AHU-1	Level 1		8	400	0.5	4.6	0.5	0.00	Yes	35
VAV	1-115	AHU-1	Level 1		8	480	0.5	5.5	0.5	0.00	Yes	35
VAV	1-116	AHU-1	Level 1		6	360	0.5	4.1	0.5	0.00	Yes	30
Level 1: 16						8730		100.4	9.2			
VAV	1-201	AHU-1	Level 2		8	500	0.5	5.7	0.5	0.00	No	35
VAV	1-202	AHU-1	Level 2		8	520	0.5	5.9	0.5	0.00	No	35
VAV	1-203	AHU-1	Level 2		8	520	0.5	5.9	0.5	0.00	No	35
VAV	1-204	AHU-1	Level 2		8	400	0.5	4.6	0.5	0.00	No	35
VAV	1-205	AHU-1	Level 2		6	300	0.5	3.4	0.5	0.00	No	30
VAV	1-206	AHU-1	Level 2		6	300	0.5	3.4	0.5	0.00	No	30
VAV	1-207	AHU-1	Level 2		10	760	0.5	8.7	0.6	0.00	Yes	40
VAV	1-208	AHU-1	Level 2		12	1060	0.5	12.1	0.8	0.00	No	50
VAV	1-209	AHU-1	Level 2		12	1200	0.5	13.7	0.9	0.00	Yes	50
VAV	1-212	AHU-1	Level 2		8	480	0.5	5.5	0.5	0.00	No	35
VAV	1-213	AHU-1	Level 2		10	710	0.5	8.1	0.5	0.00	No	40
VAV	1-214	AHU-1	Level 2		10	800	0.5	9.1	0.6	0.00	Yes	40
VAV	1-215	AHU-1	Level 2		8	640	0.5	7.3	0.5	0.00	Yes	35
VAV	1-216	AHU-1	Level 2		6	360	0.5	4.1	0.5	0.00	No	30
VAV	1-217	AHU-1	Level 2		8	480	0.5	5.5	0.5	0.00	No	35
Level 2: 15						9030		102.9	8.4			
AHU-1: 31						17760		203.2	17.6			
VAV	2-101	AHU-2	Level 1		8	410	0.5	4.7	0.5	0.00	No	35
VAV	2-102	AHU-2	Level 1		8	420	0.5	4.8	0.5	0.00	No	35
VAV	2-103	AHU-2	Level 1		8	420	0.5	4.8	0.5	0.00	No	35
VAV	2-104	AHU-2	Level 1		8	420	0.5	4.8	0.5	0.00	No	35
VAV	2-105	AHU-2	Level 1		10	900	0.5	10.3	0.7	0.00	No	40
VAV	2-106	AHU-2	Level 1		12	1050	0.5	12.0	0.8	0.00	Yes	50
VAV	2-107	AHU-2	Level 1		8	440	0.5	5.0	0.5	0.00	No	35
VAV	2-108	AHU-2	Level 1		6	300	0.5	3.4	0.5	0.00	No	30
VAV	2-109	AHU-2	Level 1		12	1020	0.5	11.6	0.8	0.00	Yes	50
VAV	2-110	AHU-2	Level 1		12	1000	0.5	14.2	0.8	0.00	No	50
VAV	2-111	AHU-2	Level 1		10	1000	0.5	8.5	0.8	0.00	No	40
VAV	2-112	AHU-2	Level 1		8	450	0.5	5.1	0.5	0.00	No	35
VAV	2-113	AHU-2	Level 1		8	600	0.5	6.8	0.5	0.00	Yes	35
VAV	2-114	AHU-2	Level 1		6	280	0.5	3.2	0.5	0.00	No	30
VAV	2-115	AHU-2	Level 1		8	400	0.5	4.6	0.5	0.00	No	35
VAV	2-116	AHU-2	Level 1		6	240	0.5	2.7	0.5	0.00	No	30
Level 1: 16						9350		106.5	9.4			
VAV	2-201	AHU-2	Level 2		6	320	0.5	3.6	0.5	0.00	No	30
VAV	2-202	AHU-2	Level 2		8	400	0.5	4.6	0.5	0.00	No	35
VAV	2-203	AHU-2	Level 2		10	680	0.5	7.7	0.5	0.00	No	40
VAV	2-204	AHU-2	Level 2		8	510	0.5	5.8	0.5	0.00	No	35
VAV	2-205	AHU-2	Level 2		10	675	0.5	7.7	0.5	0.00	No	40
VAV	2-206	AHU-2	Level 2		6	370	0.5	4.2	0.5	0.00	No	30
VAV	2-207	AHU-2	Level 2		12	1225	0.5	14.0	1	0.00	Yes	50
VAV	2-208	AHU-2	Level 2		12	1050	0.5	12.0	0.8	0.00	No	50
VAV	2-209	AHU-2	Level 2		8	480	0.5	5.5	0.5	0.00	No	35
VAV	2-210	AHU-2	Level 2		6	340	0.5	3.9	0.5	0.00	No	30
VAV	2-211	AHU-2	Level 2		6	370	0.5	4.2	0.5	0.00	No	30
VAV	2-212	AHU-2	Level 2		8	550	0.5	6.3	0.5	0.00	No	35
VAV	2-213	AHU-2	Level 2		12	1020	0.5	11.6	0.8	0.00	Yes	50
Level 2: 13						7990		91.0	7.6			
AHU-2: 29						17340		197.5	17			
Grand total: 60						35100		400.8	34.7			

VRF - SPLIT SYSTEM - FAN COIL SCHEDULE FOR IT ROOMS

UNIT TAG	LOCATION	MANUFACTURER	MODEL	AREA SERVED	SERVING	SENS. CAP.	TOTAL CAP (BTUH)	CFM	ELECTRICAL: V	PH	HZ	AMPS	WEIGHT (LBS)	Remarks	MTG. DTL
FCU-1-117	1ST FLOOR	LG	ARNU363SVA4	IT ROOM	TER	-	35,500	920	208-230	1	60	3	100	1-4	10/M7-3
FCU-1-118	1ST FLOOR	LG	ARNU363SVA4	ELECT ROOM	TER	-	35,500	920	208-230	1	60	3	100	1-4	10/M7-3
FCU-1-210	2ND FLOOR	LG	ARNU363SVA4	IT ROOM	TER	-	35,500	920	208-230	1	60	3	100	1-4	10/M7-3
FCU-1-211	2ND FLOOR	LG	ARNU363SVA4	ELECT ROOM	TER	-	35,500	920	208-230	1	60	3	100	1-4	10/M7-3

NOTES:

1. PROVIDE 30% EFF FILTER.
2. PROVIDE SECONDARY DRAIN PAN.
3. PROVIDE WITH CONDENSATE PUMP.

VRF - SPLIT SYSTEM - CONDENSING UNIT SCHEDULE

UNIT TAG	LOCATION	MANUFACTURER	MODEL	AREA SERVED	CAPACITY (BTU/H)	AIRFLOW CAP	REF CHARGE (LBS)	ELECTRICAL: V	PH	HZ	MCA	WEIGHT (LBS)	Remarks	MTG. DTL
CU-1	ROOF	LG	ARUN038GSS4	IT ROOM	38,000	3,885	6.6	208-230	1	60	25.0	250	1	9/S0-1.6
CU-2	ROOF	LG	ARUN038GSS4	ELEC. ROOM	38,000	3,885	6.6	208-230	1	60	25.0	250	1	9/S0-1.6
CU-3	ROOF	LG	ARUN038GSS4	IT ROOM	38,000	3,885	6.6	208-230	1	60	25.0	250	1	9/S0-1.6
CU-4	ROOF	LG	ARUN038GSS4	ELEC. ROOM	38,000	3,885	6.6	208-230	1	60	25.0	250	1	9/S0-1.6

NOTES:

1. ---

PUMP SCHEDULE

UNIT TAG	LOCATION	SYSTEM SERVED	MANUFACTURER AND TYPE	SERIES NO.	MODEL NO.	GPM	TOTAL HEAD (FT)	MIN. EFF. (%)	RPM	BHP	MOTOR HP	ELECTRICAL DATA VOLTS/PHASE/HZ	VFD	ISOLATION BASE	UNIT WEIGHT (LBS)	MTG. DTL.	REMARKS
P-1	ROOF	HHW	B&G End Suction	e-1510	2AD-ES	112	40	76	1750	1.4	2.0	480/3/60	yes	yes	180	6&7/ M7-4	1-4
P-2	ROOF	HHW	B&G End Suction	e-1510	2AD-ES	112	40	76	1750	1.4	2.0	480/3/60	yes	yes	180	6&7/ M7-4	1-4
P-3	ROOF	CHW	B&G In-Line	e-80	3X3X9.5C	360	40	71	1750	6.7	7.5	480/3/60	yes	yes	250	6&7/ M7-4	1-4

1. PROVIDE FACTORY SUPPLIED VFD.
2. SUCTION DIFFUSER WITH PUMP AND SYSTEM CONNECTION.
3. MECHANICAL SEAL.
4. INTERNAL VOLUTE WEAR RINGS, GALVANIZED DRIP PAN AND SPECIAL SPACER COUPLING

BOILER SCHEDULE

UNIT TAG	LOCATION	SYSTEM SERVED	MANUFACTURER AND TYPE	MODEL NO.	INPUT MBH	OUTPUT MBH	FLOW GPM	ENTERING WATER TEMP	LEAVING WATER TEMP	EFF %	ELECTRICAL V/PH/HZ	ISOLATION BASE	UNIT WEIGHT (LBS)	REMARKS
B-1	ROOF	HHW	Lochinvar Condensing	OFN 1751	1750	1680	112	150	180	96	120/1/60	Yes	2,500	1-5
B-2	ROOF	HHW	Lochinvar Condensing	OFN 1751	1750	1680	112	150	180	96	120/1/60	Yes	2,500	1-5

1. PROVIDE BACNET INTERFACE CARD (MODBUS COMMUNICATION CARD).
2. LOW WATER CUT-OFF WITH MANUAL RESET AND TEST.
3. OUTDOOR KIT.
4. PROVIDE CONDENSATE NEUTRALIZATION KIT.
5. SEE 9/M7-1 FOR BOILER MOUNTING DETAIL.

EXHAUST FANS SCHEDULE

MODEL NO.	UNIT TAG	LOCATION	AREA SERVED	MANUFACTURER	FAN TYPE	CFM	SP (IN WG)	BHP EACH FAN	FAN MOTOR HP	RPM	ELECTRICAL Volts/Phase/Hz	UNIT WEIGHT (LBS)	REMARKS
CUE-121-VG	EF-1	ROOF	1ST & 2ND FLOOR	Greenheck CUE Series	Upblast	2,400	0.65	0.49	3/4	1,081	208/3/60	110	1-7

1. PROVIDE FACTORY SUPPLIED ROOF CURB.
2. DRAIN CONNECTION.
3. BIRDSCREEN.
4. MOTOR STARTER.
5. MOTORIZED DAMPER.
6. CONNECT FACILITY EXISTING BAS. COORDINATE WITH BUILDING FACILITY FOR COMPATIBILITY.
7. SEE 7/M7-4 FOR EXHAUST FAN MOUNTING DETAIL.

INTAKE VENTILATOR

UNIT TAG	LOCATION	MANUFACTURER	MODEL NO.	SYSTEM SERVED	OPERATING WEIGHT (LBS)	REMARKS
IV-1	ROOF	GREENHECK	GRSI-8	WH-1	10 LBS	1-6

NOTES:

1. INSTALLATION SHALL BE PER MANUFACTURER'S RECOMMENDATION.
2. PROVIDE WITH ROOF CURB.

CHEMICAL POT FEEDER SCHEDULE

UNIT TAG	LOCATION	MANUFACTURER	MODEL NO.	SYSTEM SERVED	CAPACITY (GAL)	MAX PRESSURE (PSI)	MAX TEMPERATURE (°F)	OPERATING WEIGHT (LBS)	REMARKS
CPF-1	ROOF	JL WINGERT	DB-5HD	BOILER	6	200	200	40	1, 2

NOTES:

1. INSTALLATION SHALL BE PER MANUFACTURER'S RECOMMENDATION.
2. SEE 10/S0-1.16 FOR CHEMICAL POT FEEDER MOUNTING DETAIL.

AIR AND DIRT SEPERATOR SCHEDULE

UNIT TAG	LOCATION	MANUFACTURER	MODEL NO.	SYSTEM SERVED	FLOW (GPM)	CONNECTION SIZE (IN)	OPERATING WEIGHT (LBS)	REMARKS
AS-1	ROOF	SPIROTHERM	VHT-300	HHW	170	3	180	1-6

NOTES:

1. INSTALLATION SHALL BE PER MANUFACTURER'S RECOMMENDATION.
2. PROVIDE WITH BRONZE BLOW DOWN VALVE.
3. PROVIDE WITH BRASS AIR VENT
4. PROVIDE WITH BRONZE SKIM VALVE
5. PROVIDE WITH STAINLESS STEEL COALSCING MEDIUM.
6. INLINE AIR SEPERATOR SUPPORTED BY ATTACHED PIPES.

EXPANSION TANK SCHEDULE

UNIT TAG	LOCATION	MANUFACTURER	MODEL	SYSTEM SERVED	TANK VOLUME (GAL)	TANK SIZE (IN): DIAMETER	HEIGHT	TANK PRESSURE (PSI): CHARGE	MAX	OPERATING WEIGHT (LBS)	Remarks
ET-1	ROOF	ARMSTRONG	A300L	BOILERS	80	24	53	-	125.0	290	1-5

NOTES:

1. INSTALLATION SHALL BE PER MANUFACTURER'S RECOMMENDATION.
2. PROVIDE WITH ASME RATED, FACTORY MOUNTED SEISMIC MOUNTING BRACKETS.
3. EXPANION TANKS SHALL BE PRE-CHARGED @ 12 PSIG.
4. EXPANSION TANK SHALL BE PROVIDED WITH A FACTORY FITTED SIGH GLASS, AS REQUIRED BY CALIFORNIA CODE.
5. SEE 2/M7-2 FOR EXPANSION TANK MOUNTING DETAIL.

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CAPITAL
ENGINEERING CONSULTANTS, INC.
LONG BEACH, CALIFORNIA
RH - TS/SL/DV 170822.00
PM - DESIGN TEAM PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER V. MERCURIO
M 34011
EXPIRES 3/30/20
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED: 08/16/19
consultant

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STUDENT SERVICES BLDG.
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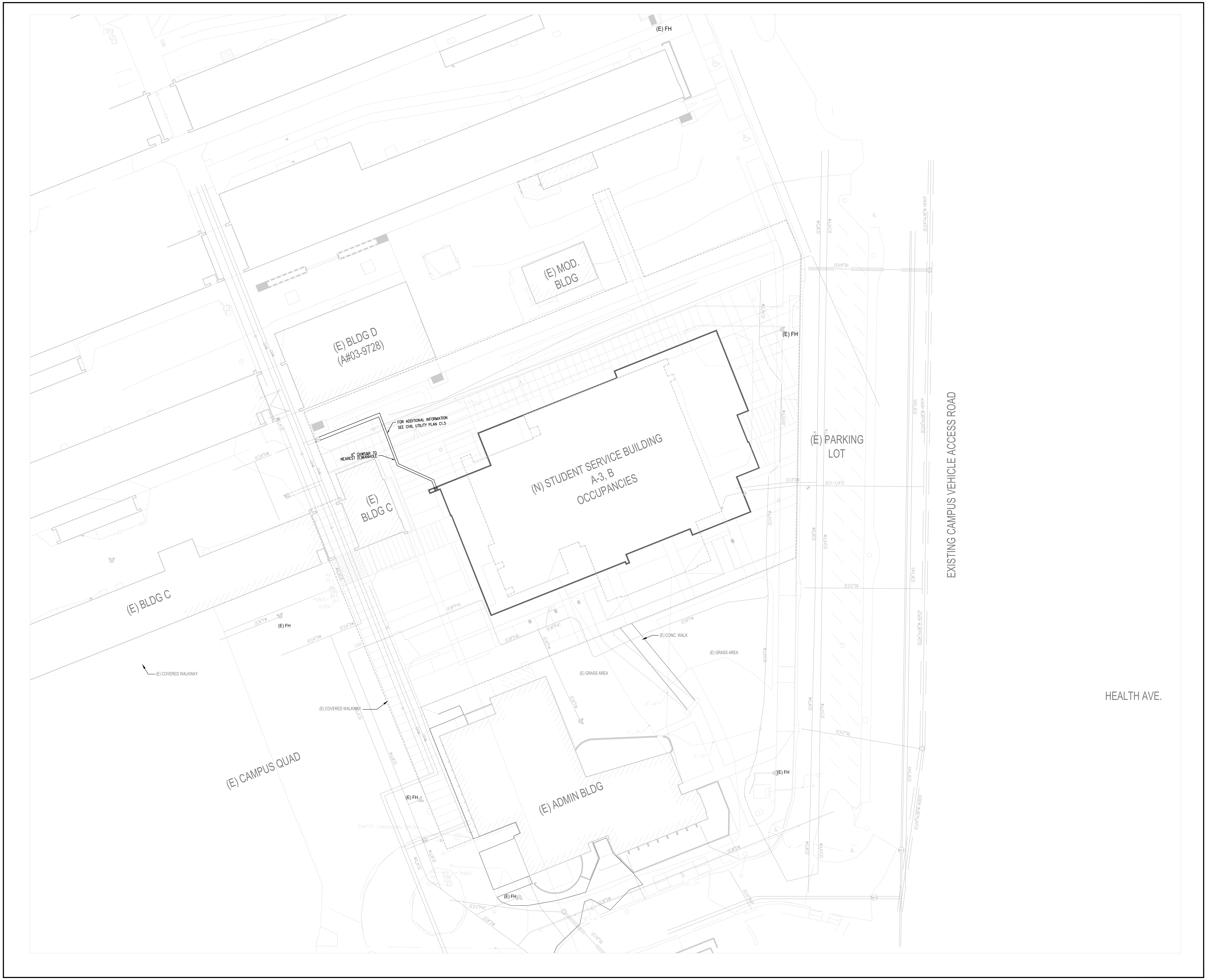

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architect

CAPITAL
ENGINEERING CONSULTANTS, INC.
LONG BEACH, CALIFORNIA

RH - TS/DV/SL — PM - DESIGN TEAM
170822.00 — PROJECT NO.

consultant

COMPTON COLLEGE STUDENT SERVICES BLDG.

COMPTON COMMUNITY COLLEGE DISTRICT
1111 E. ARTESIA BLVD.
COMPTON, CA 90221

owner

tBP project number : 20987.00

file name: CECI_COMPTON CC STUDENT SERVICES_MP18_CENTRAL.RVT

drawn by: CECI checked by: CM

date: 9.03.2019

Rev:	date:	description:

drawing title:
SITE PLAN

drawing no.:
M-03

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Compliance Scope:	NewEnvelopeAndMechanical	Input File Name:	Compton SS SBD Combo-3-CUP-T24.cibd16x

A. PROJECT GENERAL INFORMATION

1.	Project Location (city)	Compton	8.	Standards Version	Compliance2016
2.	CA Zip Code	90221	9.	Compliance Software (version)	EnergyPro 7.2
3.	Climate Zone	8	10.	Weather File	HAWTHORNE-NORTHROP-FLD_722956_CZ2010.epw
4.	Total Conditioned Floor Area in Scope	30,655 ft²	11.	Building Orientation (deg)	(N) 0 deg
5.	Total Unconditioned Floor Area	0 ft²	12.	Permitted Scope of Work	NewEnvelopeAndMechanical
6.	Total # of Stories (Habitable Above Grade)	1	13	Building Type(s)	Nonresidential
7.	Total # of dwelling units	0	14	Gas Type	NaturalGas

B. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft²-yr) § 140.1

BUILDING COMPLIES

1. Energy Component	2. Standard Design (TDV)	3. Proposed Design (TDV)	4. Compliance Margin (TDV)	5. Percent Better than Standard
Space Heating	8.79	3.54	5.25	59.7%
Space Cooling	61.36	12.20	49.16	80.1%
Indoor Fans	21.51	29.45	-7.94	-36.9%
Heat Rejection	--	0.04	-0.04	--
Pumps & Misc.	0.92	25.99	-25.07	-2725.0%
Domestic Hot Water	4.62	4.27	0.35	7.6%
Indoor Lighting	46.31	46.31	--	0.0%
COMPLIANCE TOTAL	**143.51**	**121.80**	**21.71**	**15.1%**
Receptacle	83.46	83.46	0.0	0.0%
Process	--	--	--	--
Other Ltg	--	--	--	--
Process Motors	--	--	--	--
TOTAL	**226.97**	**205.26**	**21.7**	**9.6%**

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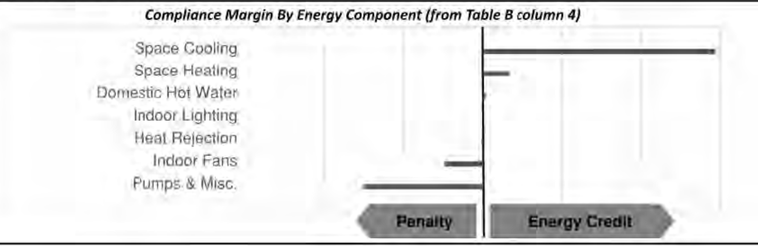
C. PRIORITY PLAN CHECK/ INSPECTION ITEMS (in order of highest to lowest TDV energy savings)

1st	Space Cooling: Check envelope and mechanical
2nd	Space Heating: Check envelope and mechanical
3rd	Domestic Hot Water: Check mechanical
4th	Indoor Lighting: Check lighting
5th	Heat Rejection: Check envelope and mechanical
6th	Indoor Fans: Check envelope and mechanical
7th	Pumps & Misc.: Check mechanical

Compliance Margin By Energy Component (from Table B column 4)



D. EXCEPTIONAL CONDITIONS

This project includes partial performance compliance scope options. The building must show compliance with all other applicable compliance scope options (performance or prescriptively) before occupying.

The aged solar reflectance and aged thermal emittance must be listed in the Cool Roof Rating Council database of certified products. For projects where initial reflectance is used, the initial reflectance must be listed, and the aged reflectance is calculated by the software program and used in the compliance model.

This project uses the Simplified Geometry Performance Modeling Approach which is not capable of modeling daylighting controls and assumes the prescriptive Secondary Daylit Control requirements are met. PRESCRIPTIVE COMPLIANCE documentation (form NRCC-LTI-02-E) for the requirements of section 140.6(d) Automatic Daylighting Controls in Secondary Daylit Zones is required.

This project includes Domestic Hot Water in the analysis. Please verify that Domestic Hot Water is included in the design for the permitted scope of work.

E. HERS VERIFICATION

This Section Does Not Apply

F. ADDITIONAL REMARKS

None Provided

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G. COMPLIANCE PATH & CERTIFICATE OF COMPLIANCE SUMMARY

Identify which building components use the performance or prescriptive path for compliance. "NA"= not in project

For components that utilize the performance path, indicate the sheet number that includes mandatory notes on plans.

Building Component	Compliance Path	Compliance Forms *(required for submittal)*	Location of Mandatory Notes on Plans
Envelope	☒ Performance	NRCC-PRF-ENV-DETAILS (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-ENV-01 / 02 / 03 / 04 / 05 / 06-E	
	☐ NA		
Mechanical	☒ Performance	NRCC-PRF-MCH-DETAILS (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-MCH-01 / 02 / 03 / 04 / 05 / 06 / 07-E	
	☐ NA		
Domestic Hot Water	☒ Performance	NRCC-PRF-PLB-DETAILS (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-PLB-01-E	
	☐ NA		
Lighting (Indoor Conditioned)	☐ Performance	NRCC-PRF-LTI-DETAILS (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-LTI-01 / 02 / 03 / 04 / 05-E	
	☒ NA		
Covered Process: Commercial Kitchens	☐ Performance	S2 (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-PRC-01/ 03-E	
	☒ NA		
Covered Process: Computer Rooms	☐ Performance	S3 (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-PRC-01/ 04-E	
	☒ NA		
Covered Process: Laboratory Exhaust	☐ Performance	S4 (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-PRC-01/ 09-E	
	☒ NA		

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G. COMPLIANCE PATH & CERTIFICATE OF COMPLIANCE SUMMARY

The following building components are only eligible for prescriptive compliance. Indicate which are relevant to the project.				*The following building components may have mandatory requirements per Part 6. Indicate which are relevant to the project.*			
Yes	NA	Prescriptive Requirement	Compliance Forms	Yes	NA	Mandatory Requirement	Compliance Forms
☐	☒	Lighting (Indoor Unconditioned) §140.6	NRCC-LTI-01 / 02 / 03 / 04 / 05-E	☐ ☐	☒ ☒	Commissioning: §120.8 Simple Systems Complex Systems	NRCC-CXR-01 / 02 / 03 / 05-E NRCC-CXR-01 / 02 / 04 / 05-E
☐	☒	Lighting (Outdoor) §140.7	NRCC-LTO-01 / 02 / 03-E	☐	☒	Electrical: §130.5	NRCC-ELC-01-E
☐	☒	Lighting (Sign) §140.8	NRCC-LTS-01-E	☐	☒	Solar Ready: §110.10	NRCC-SRA-01 / 02-E
☐	☒	Solar Thermal Water Heating: §140.5	NRCC-STH-01-E	☐ ☐ ☐ ☐ ☐ ☐	☒ ☒ ☒ ☒ ☒ ☒	Covered Process: §120.6 Parking Garage Commercial Refrigeration Warehouse Refrigeration Compressed Air Process Boilers	NRCC-PRC-01-E NRCC-PRC-02-E NRCC-PRC-05-E NRCC-PRC-06/07/08-E NRCC-PRC-10-E NRCC-PRC-11-E

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H. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRCV) –
Documentation Author to indicate which Certificates must be submitted for the features to be recognized for compliance
(Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).
See Tables G. and H. in MCH and LTI Details Sections for Acceptance Tests and forms by equipment.

Building Component	Compliance Forms *(required for submittal)*	Confirmed Pass	Confirmed Fail
Envelope	☒ NRCI-ENV-01-E - For all buildings	☐	☐
	☒ NRCA-ENV-02-F- NFRC label verification for fenestration	☐	☐
Mechanical	☒ NRCI-MCH-01-E - For all buildings with Mechanical Systems	☐	☐
	☒ NRCA-MCH-02-A- Outdoor Air	☐	☐
	☐ NRCA-MCH-03-A – Constant Volume Single Zone HVAC	☐	☐
	☐ NRCA-MCH-04-H- Air Distribution Duct Leakage	☐	☐
	☒ NRCA-MCH-05-A- Air Economizer Controls	☐	☐
	☒ NRCA-MCH-06-A- Demand Control Ventilation	☐	☐
	☒ NRCA-MCH-07-A – Supply Fan Variable Flow Controls	☐	☐
	☒ NRCA-MCH-08-A- Valve Leakage Test	☐	☐
	☒ NRCA-MCH-09-A – Supply Water Temp Reset Controls	☐	☐
	☒ NRCA-MCH-10-A- Hydronic System Variable Flow Controls	☐	☐
	☒ NRCA-MCH-11-A – Auto Demand Shed Controls	☐	☐
	☐ NRCA-MCH-12-A- Packaged Direct Expansion Units	☐	☐
	☐ NRCA-MCH-13-A- Air Handling Units and Zone Terminal Units	☐	☐
	☐ NRCA-MCH-14-A- Distributed Energy Storage	☐	☐
	☐ NRCA-MCH-15-A – Thermal Energy Storage	☐	☐
	☒ NRCA-MCH-16-A- Supply Air Temp Reset Controls	☐	☐
	☒ NRCA-MCH-17-A – Condensate Water Temp Reset Controls	☐	☐
	☐ NRCA-MCH-18-A- Energy Management Controls Systems	☐	☐
	☐ NRCV-MCH-04-H- Duct Leakage Test	☐	☐

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(Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).
See Tables G. and H. in MCH and LTI Details Sections for Acceptance Tests and forms by equipment.

Building Component	Compliance Forms *(required for submittal)*	Confirmed Pass	Confirmed Fail
Plumbing	☒ NRCI-PLB-01-E - For all buildings with Plumbing Systems	☐	☐
	☐ NRCI-PLB-02-E - required on central systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-PLB-03-E - Single dwelling unit systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-PLB-21-E - HERS verified central systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-PLB-22-E - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCV-PLB-21-H- HERS verified central systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCV-PLB-22-H - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-STH-01-E - Any solar water heating	☐	☐
Indoor Lighting	☐ NRCI-LTI-01-E - For all buildings	☐	☐
	☐ NRCI-LTI-02-E - Lighting control system, or for an Energy Management Control System (EMCS)	☐	☐
	☐ NRCI-LTI-03-E - Line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting	☐	☐
	☐ NRCI-LTI-04-E - Two interlocked systems serving an auditorium, a convention center, a conference room, or a theater	☐	☐
	☐ NRCI-LTI-05-E - Lighting Control Credit Power Adjustment Factor (PAF)	☐	☐
	☐ NRCI-LTI-06-E - Additional wattage installed in a video conferencing studio	☐	☐
	☐ NRCA-LTI-02-A - Occupancy sensors and automatic time switch controls.	☐	☐
	☒ NRCA-LTI-03-A - Automatic daylighting controls	☐	☐
	☐ NRCA-LTI-04-A - Demand responsive lighting controls	☐	☐
Outdoor Lighting	☐ NRCI-LTO-01-E – Outdoor Lighting	☐	☐
	☐ NRCI-LTO-02-E- EMCS Lighting Control System	☐	☐
	☐ NRCA-LTO-02-A - Outdoor Lighting Control	☐	☐
Sign Lighting	☐ NRCI-LTS-01-E – Sign Lighting	☐	☐
Electrical	☐ NRCI-ELC-01-E - Electrical Power Distribution	☐	☐
Photovoltaic	☐ NRCI-SPV-01-E Photovoltaic Systems	☐	☐

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Documentation Author to indicate which Certificates must be submitted for the features to be recognized for compliance
(Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).
See Tables G. and H. in MCH and LTI Details Sections for Acceptance Tests and forms by equipment.

Building Component	Compliance Forms *(required for submittal)*	Confirmed Pass	Confirmed Fail
Covered Process	☐ NRCI-PRC-01-E Covered Processes	☐	☐
	☐ NRCA-PRC-01-F- Compressed Air Systems	☐	☐
	☐ NRCA-PRC-02-F- Kitchen Exhaust	☐	☐
	☐ NRCA-PRC-03-F- Garage Exhaust	☐	☐
	☐ NRCA-PRC-04-F- Refrigerated Warehouse- Evaporator Fan Motor Controls	☐	☐
	☐ NRCA-PRC-05-F- Refrigerated Warehouse- Evaporative Condenser Controls	☐	☐
	☐ NRCA-PRC-06-F- Refrigerated Warehouse- Air Cooled Condenser Controls	☐	☐
	☐ NRCA-PRC-07F- Refrigerated Warehouse- Variable Speed Compressor	☐	☐
	☐ NRCA-PRC-08-F- Electrical Resistance Underslab Heating System	☐	☐

I. ENVELOPE GENERAL INFORMATION (See NRCC-PRF-ENV-DETAILS for more information)

						Confirmed Pass	Confirmed Fail
1.	Total Conditioned Floor Area	30,655 ft²	5.	Number of Floors Above Grade	1		
2.	Total Unconditioned Floor Area	0 ft²	6.	Number of Floors Below Grade	0		
3.	Addition Conditioned Floor Area	0 ft²					
4.	Addition Unconditioned Floor Area	0 ft²					

7. Opaque Surfaces & Orientation	8. Total Gross Surface Area	9. Total Fenestration Area	10. Window to Wall Ratio	Pass	Fail
North Wall	3,017 ft²	779 ft²	25.8%	☐	☐
East Wall	1,812 ft²	1,245 ft²	68.7%	☐	☐
South Wall	3,334 ft²	1,635 ft²	49.0%	☐	☐
West Wall	1,659 ft²	730 ft²	44.0%	☐	☐
Total	**9,822 ft²**	**4,389 ft²**	**44.7%**	☐	☐
Roof	14,210 ft²	0 ft²	00.0%	☐	☐

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J. FENESTRATION ASSEMBLY SUMMARY § 110.6 Confirmed

1. Fenestration Assembly Name / Tag or I.D.	2. Fenestration Type / Product Type / Frame Type	3. Certification Method[1]	4. Assembly Method	5. Area ft²	6. Overall U-factor	7. Overall SHGC	8. Overall VT	9. Status[2]	Pass	Fail
PPG Solarban 70XL	VerticalFenestration CurtainWall N/A	NFRC Rated	SiteBuilt	4347	0.29	0.27	0.63	N	☐	☐
Residential Prescriptive	VerticalFenestration FixedWindow N/A	NFRC Rated	Manufactured	42	0.32	0.25	0.50	N	☐	☐

[1] Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass-only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.
[2] Status: N - New, A – Altered, E – Existing

Taking compliance credit for fenestration shading devices? (if "Yes", see NRCC-PRF-ENV-DETAILS for more information)	No

K. OPAQUE SURFACE ASSEMBLY SUMMARY § 120.7/ § 140.3 Confirmed

1. Surface Name	2. Surface Type	3. Area (ft²)	4. Framing Type	5. Cavity R-Value	6. Continuous R-Value	7. U-Factor / F-Factor / C-Factor	8. Status[1]	Pass	Fail
R-30 Insulation CRRC10	Roof	14210	NA	0	30	U-Factor: 0.032	N	☐	☐
R-8 Rigid o R-19 Metal Fr12	ExteriorWall	9570	Metal	19	8	U-Factor: 0.071	N	☐	☐
R-11 Floor No Crawlspace15	InteriorFloor	14210	Wood	11	NA	U-Factor: 0.068	N	☐	☐
Slab On Grade165	UndergroundFloor	16445	NA	0	NA	F-Factor: 0.730	N	☐	☐
R-8 Rigid o R-19 Metal Fr121	InteriorWall	225	Metal	19	8	U-Factor: 0.068	N	☐	☐
R-19 Wall292	ExteriorWall	252	Wood	19	NA	U-Factor: 0.072	N	☐	☐

[1] Status: N - New, A – Altered, E – Existing

L. ROOFING PRODUCT SUMMARY § 140.3 Confirmed

1. Product Type	2. Product Density (lb/ft²)	3. Aged Solar Reflectance	4. Thermal Emittance	5. SRI	6. Cool Roof Credit	7. Roofing Product Description	Pass	Fail
R-30 Insulation CRRC10	6.408	0.70	0.80	Not Provided	Yes	CRRC Prod. ID: R-30 Insulation CRRC	☐	☐

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M. HVAC SYSTEM SUMMARY (see NRCC-PRF-MCH-DETAILS for more information) § 110.1 / § 110.2

Dry System Equipment [1] (Fan & Economizer info included below in Table N) Confirmed

1. Equip Name	2. Equip Type	3. System Type (Simple [2] or Complex [3])	4. Qty	5. Total Heating Output (kBtu/h)	6. Supp Heat Source (Y/N)	7. Supp Heat Output (kBtuh)	8. Total Cooling Output (kBtu/h)	9. Efficiency Cooling	9. Efficiency Heating	10. Acceptance Testing Required? (Y/N) [4]	11. Status[5]	Pass	Fail
AHU-South	VAV (Packaged3Phase)	Complex	1	1240	No	0	765	NA	NA	Yes	N	☐	☐
AHU-North	VAV (Packaged3Phase)	Complex	1	1400	No	0	765	NA	NA	Yes	N	☐	☐

[1] Dry System Equipment includes furnaces, air handling units, heat pumps, etc.
[2] Simple Systems must complete NRCC-CXR-03-E commissioning design review form
[3] Complex Systems must complete NRCC-CXR-04-E commissioning design review form
[4] A summary of which acceptance tests are applicable is provided in NRCC-PRF-MCH-DETAILS
[5] Status: N New, A – Altered, E – Existing

Wet System Equipment [1]								Pumps					Confirmed	
12. Equip Name	13. Equip Type	14. Qty	15. Vol (gal)	16. Rated Capacity (kBtu/h)	17. Efficiency	18. Standby Loss	19. Tank Ext. R Value	20. Qty	21. GPM	22. HP	23. VSD (Y/N)	24. Status[2]	Pass	Fail
Laars Condensing Gas Boil2-0	HotWater	NA	NA	1663	Thrml. Eff: 0.95	NA	NA	1	100.0	1.000	Yes	N	☐	☐
Standard Gas Tankless3	Instantaneous	1	1.00	199	EF: 0.82	SBLF: NA	NA		NA		No	N	☐	☐
151 Ton Tower	OpenTower	NA	NA	1812	NA	NA	NA	1	453.0	7.500	No	N	☐	☐
Undefined Plant1 - ChillSys Undefined Plant1 - ChillSys2SSeg	Chilled Water, Primary/Secondary	NA	NA	NA	NA	NA	NA	1	270.0	4.000	Yes	N	☐	☐
151 Ton Water Cooled Scre-1-1-1	Screw	NA	NA	1812	kW/ton: 0.680	NA	NA	1	270.0	6.000	No	N	☐	☐

[1] Wet System Equipment includes boilers, chillers, cooling towers, water heaters, etc.
[2] Status: N - New, A – Altered, E – Existing

Discrepancy between modeled and designed equipment sizing? (if "Yes", see Table F. "Additional Remarks" for an explanation)	No

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-119686 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/14/2019

DIVISION OF THE STATE ARCHITECT
WELLS FARGO CENTER - SOUTH TOWER
355 SOUTH GRAND AVENUE, SUITE 2100
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architect

CAPITAL ENGINEERING CONSULTANTS, INC.
LONG BEACH, CALIFORNIA
RH - TS/SL/DV 170822.00
PM - DESIGN TEAM PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER CHRISTOPHER V. MERCURIO M 34011 EXPIRES 3/30/20 MECHANICAL STATE OF CALIFORNIA
DATE SIGNED: 08/16/19
consultant

COMPTON COLLEGE STUDENT SERVICES BLDG.

COMPTON COMMUNITY COLLEGE DISTRICT
1111 E. ARTESIA BLVD.
COMPTON, CA 90221
owner

tBP project number: 20987.00
file name: CECI_COMPTON CC STUDENT SERVICES_MP18_CENTRAL.RVT
drawn by: CECI checked by: CM
date: 9.03.2019

rev:	date:	description:

drawing title:
TITLE 24 COMPLIANCE

drawing no.:
M0-4

N. ECONOMIZER & FAN SYSTEMS SUMMARY[1] § 140.4

1.	2.	3.					4.					5.	Confirmed	
Equip Name	Outside Air	Supply Fan					Return Fan					Economizer Type (if present)	Pass	Fail
	CFM	CFM	HP	BHP	TSP (inch WC)	Control	CFM	HP	BHP	TSP (inch WC)	Control			
AHU-South	3755	19000	13.400	13.400	2.77	VariableSpeedDrive	19000	9.000	9.000	1.80	VariableSpeedDrive	DifferentialDryBulb	☐	☐
AHU-North	3638	19000	13.400	13.400	2.77	VariableSpeedDrive	19000	9.000	9.000	1.80	VariableSpeedDrive	DifferentialDryBulb	☐	☐

[1] Mechanical ventilation calculations and exhaust fans are included in the NRCC-PRF-MCH-DETAILS section

O. EQUIPMENT CONTROLS § 120.2

1.	2.	3.	Confirmed	
Equip Name	Equip Type	Controls	Pass	Fail
AHU-South	VAV	2 Zones With CO2Sensor Vent. Control, DDC Controls and Dual Maximum Reheat Controls Differential Drybulb Economizer Warmest Zone Supply Air Temp. Reset Optimum Start No Evaporative Cooler No Heat Recovery	☐	☐
AHU-North	VAV	4 Zones With CO2Sensor Vent. Control, DDC Controls and Dual Maximum Reheat Controls Differential Drybulb Economizer Warmest Zone Supply Air Temp. Reset Optimum Start No Evaporative Cooler No Heat Recovery	☐	☐
Undefined Plant1 - HotWater	Heating Hot Water, Primary Only	Fixed Temperature Control, DDC No Heat Recovery	☐	☐
Undefined Plant1 - SHW	Service Hot Water, Primary Only	Fixed Temperature Control, No DDC No Heat Recovery	☐	☐
Undefined Plant1 - CW	Condenser Water, Primary Only	Fixed Temperature Control, DDC No Heat Recovery	☐	☐
Undefined Plant1 - ChillSys	Chilled Water, Primary/Secondary	Fixed Temperature Control, DDC No Heat Recovery	☐	☐

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT § 10-103

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Jessica Hughey	Signature:
Company: Capital Engineering Consultants Inc.	
Address: 11020 Sun Center Drive	Signature Date: 2/21/2019
City/State/Zip: Rancho Cordova CA 95670	CEA Identification (if applicable):
Phone: (916) 851-3500	

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation; and that I am licensed in the State of California as a civil engineer, mechanical engineer, electrical engineer, or I am a licensed architect.
2. I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code by section 5537.2 or 6737.3 to sign this document as the person responsible for its preparation; and that I am a licensed contractor performing this work.
3. I affirm that I am eligible under Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537, 5538 and 6737.1.

Responsible Envelope Designer Name: Christopher Mercurio	Signature:	
Company: Capital Engineering Consultants Inc.		
Address: 11020 Sun Center Drive	Date Signed: 2/26/2019	
City/State/Zip: Rancho Cordova CA 95670	Declaration Statement Type:	
Phone: (916) 851-3500	Title:	License #:
Responsible Lighting Designer Name:	Signature: NOT IN SCOPE	
Company:		
Address:	Date Signed:	
City/State/Zip:	Declaration Statement Type:	
Phone:	Title:	License #:
Responsible Mechanical Designer Name: - specify -	Signature:	
Company:		
Address:	Date Signed:	
City/State/Zip:	Declaration Statement Type:	
Phone:	Title:	License #:

NRCC-PRF-MCH-DETAILS -SECTION START-

A. MECHANICAL VENTILATION AND REHEAT *(Adapted from 2016-NRCC-MCH-03-E)*

CONDITIONED ZONE NAME	1. DESIGN AIR FLOWS: HEATING/COOLING SYSTEM ID	DESIGN PRIMARY AIR FLOW (CFM)	DESIGN PRIMARY MINIMUM AIR FLOW (CFM)	MINIMUM PRIMARY AIR FLOW FRACTION	MAXIMUM HEATING AIR FLOW (CFM)	MAXIMUM HEATING AIR FLOW FRACTION	DDC CONTROL (Y/N)	2. VENTILATION (§ 120.1): VENT SYSTEM ID	CONDITIONED AREA (ft2)	MIN. VENT PER AREA (CFM/ft2)	DESIGN NUM. OF PEOPLE	MIN. VENT PER PERSON (CFM/person)	REQ'D VENT AIR FLOW (CFM)	DESIGN VENT AIR FLOW (CFM)	TRANSFER AIRFLOW (CFM)	DCV (Y/N)	Operable Window Interlock § 140.4(n) (Y/N)	Confirmed: Pass	Fail
1-2-30	AHU-South	633	190	0.30	316	1	Y	AHU-South	403	NA	4.03	15.00	60	60	NA	N	NA	☐	☐
2-2-29	AHU-South	360	108	0.30	360	1	Y	AHU-South	229	NA	2.29	15.00	34	34	NA	N	NA	☐	☐
3-2-28	AHU-South	390	117	0.30	195	1	Y	AHU-South	248	NA	2.48	15.00	37	37	NA	N	NA	☐	☐
4-2-27	AHU-South	1,171	351	0.30	586	1	Y	AHU-South	746	NA	7.46	15.00	112	112	NA	N	NA	☐	☐
5-2-26	AHU-South	700	210	0.30	350	1	Y	AHU-South	445	NA	4.45	15.00	67	67	NA	N	NA	☐	☐
6-2-25	AHU-South	286	86	0.30	143	1	Y	AHU-South	182	NA	1.82	15.00	27	27	NA	N	NA	☐	☐
7-2-24	AHU-South	1,950	585	0.30	975	1	Y	AHU-South	1,239	NA	12.39	15.00	186	186	NA	N	NA	☐	☐
8-2-23	AHU-South	520	156	0.30	260	1	Y	AHU-South	329	NA	3.29	15.00	49	49	NA	N	NA	☐	☐
9-2-21	AHU-South	750	225	0.30	375	1	Y	AHU-South	440	NA	4.40	15.00	66	66	NA	N	NA	☐	☐
10-2-22	AHU-South	1,460	438	0.30	730	1	Y	AHU-South	928	NA	9.28	15.00	139	139	NA	N	NA	☐	☐
11-2-20	AHU-South	660	198	0.30	330	1	Y	AHU-South	418	NA	4.18	15.00	63	63	NA	N	NA	☐	☐
12-2-19	AHU-South	505	152	0.30	250	1	Y	AHU-South	321	NA	3.21	15.00	48	48	NA	N	NA	☐	☐
13-2-18	AHU-South	350	105	0.30	175	1	Y	AHU-South	222	NA	2.22	15.00	33	33	NA	N	NA	☐	☐
14-1-17	AHU-South	2,160	648	0.30	1,080	1	Y	AHU-South	1,375	NA	13.75	15.00	206	206	NA	N	NA	☐	☐
15-1-18	AHU-South	1,750	525	0.30	871	1	Y	AHU-South	1,110	NA	11.10	15.00	167	167	NA	N	NA	☐	☐
16-1-19	AHU-South	560	168	0.30	280	1	Y	AHU-South	356	NA	3.56	15.00	53	53	NA	N	NA	☐	☐
17-1-20	AHU-South	540	162	0.30	280	1	Y	AHU-South	340	NA	3.40	15.00	51	51	NA	N	NA	☐	☐
18-1-21	AHU-South	1,450	435	0.30	725	1	Y	AHU-South	914	NA	9.14	15.00	137	137	NA	N	NA	☐	☐

P. SYSTEM DISTRIBUTION SUMMARY § 120.4/ § 140.4(l)

1.	2.	Dry System Distribution: 3.	4.	5.		6.	Confirmed	
Equip Name	Equip Type	Duct Leakage and Sealing Required per 140.4(l)	Duct Leakage will be verified per NA1 and NA2	Ducts: Insulation R-Value	Location	Status[1]	Pass	Fail
AHU-South	VAV	No	No	8.0	Unconditioned	N	☐	☐
AHU-North	VAV	No	No	8.0	Unconditioned	N	☐	☐

[1] Status: N - New, E - Existing

Does the Project Include Zonal Systems? (If "Yes", see NRCC-PRF-MCH-DETAILS for system information)	No
Does the Project Include a Solar Hot Water System? (If "Yes", see NRCC-PRF-MCH-DETAILS for system information)	No
Multifamily or Hotel/ Motel Occupancy? (If "Yes", see NRCC-PRF-MCH-DETAILS for DHW system information)	No

Q. INDOOR CONDITIONED LIGHTING GENERAL INFO (see NRCC-PRF-LTI-DETAILS for more info)

This Section Does Not Apply

R. INDOOR CONDITIONED LIGHTING SCHEDULE (Adapted from NRCC-LTI-01-E)[1] § 130.0

This Section Does Not Apply

[1] If lighting power densities were used in the compliance model Building Departments will need to check prescriptive forms for Luminaire Schedule details.

S1. COVERED PROCESS SUMMARY – ENCLOSED PARKING GARAGES § 140.9

This Section Does Not Apply

S2. COVERED PROCESS SUMMARY – COMMERCIAL KITCHENS § 140.9

This Section Does Not Apply

S3. COVERED PROCESS SUMMARY – COMPUTER ROOMS § 140.9

This Section Does Not Apply

S4. COVERED PROCESS SUMMARY – LABORATORY EXHAUSTS § 140.9

This Section Does Not Apply

NRCC-PRF-ENV-DETAILS -SECTION START-

A. OPAQUE SURFACE ASSEMBLY DETAILS

1. Surface Name	2. Surface Type	3. Description of Assembly Layers	4. Notes	Confirmed: Pass	Fail
R-30 Insulation CRRC10	Roof	Built-up roofing - 3/8 in. Compliance Insulation R30.00 Plywood - 1/2 in. Metal Deck - 1/16 in.		☐	☐
R-8 Rigid o R-19 Metal Fr12	ExteriorWall	Stucco - 7/8 in. Compliance Insulation R8.00 Vapor permeable felt - 1/8 in. Metal framed wall, 16in. OC, 7.25in., R-19 Gypsum Board - 1/2 in.		☐	☐
R-11 Floor No Crawlspace15	InteriorFloor	Wood framed floor, 16in. OC, 5.5in., R-11 Plywood - 1/2 in. Carpet - 3/4 in.		☐	☐
Slab On Grade165	UndergroundFloor	Slab Type = UnheatedSlabOnGrade Insulation Orientation = None Insulation R-Value = R0		☐	☐
R-8 Rigid o R-19 Metal Fr121	InteriorWall	Stucco - 7/8 in. Compliance Insulation R8.00 Vapor permeable felt - 1/8 in. Metal framed wall, 16in. OC, 7.25in., R-19 Gypsum Board - 1/2 in.		☐	☐
R-19 Wall292	ExteriorWall	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Wood framed wall, 16in. OC, 5.5in., R-19 Gypsum Board - 1/2 in.		☐	☐

B. OVERHANG DETAILS (Adapted from NRCC-ENV-02-E)

1. Fenestration Tag/ID	2. Fenestration Orientation	3. Overhang Dimensions: Horizontal Projection	Distance Above Window	4. Side fin: Vertical Projection	Confirmed: Pass	Fail
Window13	East	10.0 ft.	0.1 ft.	Left: 0 ft., Right: 0 ft.	☐	☐

A. MECHANICAL VENTILATION AND REHEAT *(Adapted from 2016-NRCC-MCH-03-E)*

CONDITIONED ZONE NAME	1. DESIGN AIR FLOWS: HEATING/COOLING SYSTEM ID	DESIGN PRIMARY AIR FLOW (CFM)	DESIGN PRIMARY MINIMUM AIR FLOW (CFM)	MINIMUM PRIMARY AIR FLOW FRACTION	MAXIMUM HEATING AIR FLOW (CFM)	MAXIMUM HEATING AIR FLOW FRACTION	DDC CONTROL (Y/N)	2. VENTILATION (§ 120.1): VENT SYSTEM ID	CONDITIONED AREA (ft2)	MIN. VENT PER AREA (CFM/ft2)	DESIGN NUM. OF PEOPLE	MIN. VENT PER PERSON (CFM/person)	REQ'D VENT AIR FLOW (CFM)	DESIGN VENT AIR FLOW (CFM)	TRANSFER AIRFLOW (CFM)	DCV (Y/N)	Operable Window Interlock § 140.4(n) (Y/N)	Confirmed: Pass	Fail
19-1-22	AHU-South	510	153	0.30	255	1	Y	AHU-South	325	NA	3.25	15.00	49	49	NA	N	NA	☐	☐
20-1-23	AHU-South	1,510	453	0.30	750	1	Y	AHU-South	961	NA	48.05	15.00	721	721	NA	Y	NA	☐	☐
21-1-24	AHU-South	605	182	0.30	305	1	Y	AHU-South	385	NA	3.85	15.00	58	58	NA	N	NA	☐	☐
22-1-25	AHU-South	570	171	0.30	285	1	Y	AHU-South	361	NA	3.61	15.00	54	54	NA	N	NA	☐	☐
23-1-26	AHU-South	1,235	371	0.30	618	1	Y	AHU-South	786	NA	7.86	15.00	118	118	NA	N	NA	☐	☐
24-1-27	AHU-South	2,076	623	0.30	1,040	1	Y	AHU-South	1,322	NA	66.10	15.00	991	991	NA	Y	NA	☐	☐
25-1-28	AHU-South	770	231	0.30	385	1	Y	AHU-South	489	NA	4.89	15.00	73	73	NA	N	NA	☐	☐
26-1-29	AHU-South	700	210	0.30	350	1	Y	AHU-South	442	NA	4.42	15.00	66	66	NA	N	NA	☐	☐
27-1-30	AHU-South	315	95	0.30	160	1	Y	AHU-South	201	NA	2.01	15.00	30	30	NA	N	NA	☐	☐
28-1-31	AHU-South	320	96	0.30	160	1	Y	AHU-South	203	NA	2.03	15.00	30	30	NA	N	NA	☐	☐
29-1-32	AHU-South	281	84	0.30	141	1	Y	AHU-South	179	NA	1.79	15.00	27	27	NA	N	NA	☐	☐
30-1-1	AHU-North	725	218	0.30	360	1	Y	AHU-North	434	NA	28.93	15.00	434	434	NA	Y	NA	☐	☐
31-1-2	AHU-North	560	168	0.30	275		Y	AHU-North	427	NA	4.27	15.00	64	64	NA	N	NA	☐	☐
32-1-3	AHU-North	540	162	0.30	270	1	Y	AHU-North	414	NA	20.70	15.00	310	310	NA	Y	NA	☐	☐
33-1-4	AHU-North	280	84	0.30	286	1	Y	AHU-North	443	NA	4.43	15.00	66	66	NA	N	NA	☐	☐
34-1-5	AHU-North	460	138	0.30	230	1	Y	AHU-North	353	NA	3.53	15.00	53	53	NA	N	NA	☐	☐
35-1-6	AHU-North	200	60	0.30	100	1	Y	AHU-North	100	NA	0.30	50.00	15	15	NA	N	NA	☐	☐
36-1-7	AHU-North	170	51	0.30	85	1	Y	AHU-North	131	NA	0.39	50.00	20	20	NA	N	NA	☐	☐
37-1-8	AHU-North	430	129	0.30	215	1	Y	AHU-North	330	NA	3.30	15.00	50	50	NA	N	NA	☐	☐
38-1-9	AHU-North	900	270	0.30	450	1	Y	AHU-North	373	NA	3.73	15.00	56	56	NA	N	NA	☐	☐

T. UNMET LOAD HOURS

This Section Does Not Apply

U. ENERGY USE SUMMARY

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	0.0	--	--	175.5	67.3	108.2
Space Cooling	53.4	10.2	43.2	--	--	--
Indoor Fans	26.8	38.0	-11.2	--	--	--
Heat Rejection	--	0.0	--	--	--	--
Pumps & Misc.	1.5	27.8	-26.3	--	--	--
Domestic Hot Water	--	--	--	98.4	91.0	7.4
Indoor Lighting	57.4	57.4	0.0	--	--	--
COMPLIANCE TOTAL	**139.1**	**133.4**	**5.7**	**273.9**	**158.3**	**115.6**
Receptacle	101.2	101.2	0.0	--	--	--
Process	--	--	--	--	--	--
Other Ltg	--	--	--	--	--	--
Process Motors	--	--	--	--	--	--
TOTAL	**240.3**	**234.6**	**5.7**	**273.9**	**158.3**	**115.6**

B. OVERHANG DETAILS (Adapted from NRCC-ENV-02-E)

1. Fenestration Tag/ID	2. Fenestration Orientation	3. Overhang Dimensions: Horizontal Projection	Distance Above Window	4. Side fin: Vertical Projection	Confirmed: Pass	Fail
Window24	South	2.0 ft.	0.1 ft.	Left: 0 ft., Right: 0 ft.	☐	☐
Window26	East	10.0 ft.	0.1 ft.	Left: 0 ft., Right: 0 ft.	☐	☐
Window30	East	10.0 ft.	0.1 ft.	Left: 0 ft., Right: 0 ft.	☐	☐
Window34	South	2.0 ft.	0.1 ft.	Left: 0 ft., Right: 0 ft.	☐	☐
Window35	South	2.0 ft.	0.1 ft.	Left: 0 ft., Right: 0 ft.	☐	☐
Window42	South	2.0 ft.	0.1 ft.	Left: 0 ft., Right: 0 ft.	☐	☐
Window43	South	2.0 ft.	0.1 ft.	Left: 0 ft., Right: 0 ft.	☐	☐
Window142	West	2.0 ft.	0.1 ft.	Left: 0 ft., Right: 0 ft.	☐	☐
Window143	West	2.0 ft.	0.1 ft.	Left: 0 ft., Right: 0 ft.	☐	☐
Window154	West	2.0 ft.	0.1 ft.	Left: 0 ft., Right: 0 ft.	☐	☐
Window158	West	2.0 ft.	0.1 ft.	Left: 0 ft., Right: 0 ft.	☐	☐
Window162	West	2.0 ft.	0.1 ft.	Left: 0 ft., Right: 0 ft.	☐	☐
Window406	East	4.0 ft.	0.1 ft.	Left: 0 ft., Right: 0 ft.	☐	☐
Window408	South	4.0 ft.	0.1 ft.	Left: 0 ft., Right: 0 ft.	☐	☐
Window413	East	4.0 ft.	0.1 ft.	Left: 0 ft., Right: 0 ft.	☐	☐
Window528	West	10.0 ft.	0.1 ft.	Left: 0 ft., Right: 0 ft.	☐	☐
Window529	West	10.0 ft.	0.1 ft.	Left: 0 ft., Right: 0 ft.	☐	☐
Window535	West	10.0 ft.	0.1 ft.	Left: 0 ft., Right: 0 ft.	☐	☐
Window554	West	10.0 ft.	0.1 ft.	Left: 0 ft., Right: 0 ft.	☐	☐
Window558	East	10.0 ft.	0.1 ft.	Left: 0 ft., Right: 0 ft.	☐	☐

C. OPAQUE DOOR SUMMARY

This Section Does Not Apply

A. MECHANICAL VENTILATION AND REHEAT *(Adapted from 2016-NRCC-MCH-03-E)*

CONDITIONED ZONE NAME	1. DESIGN AIR FLOWS: HEATING/COOLING SYSTEM ID	DESIGN PRIMARY AIR FLOW (CFM)	DESIGN PRIMARY MINIMUM AIR FLOW (CFM)	MINIMUM PRIMARY AIR FLOW FRACTION	MAXIMUM HEATING AIR FLOW (CFM)	MAXIMUM HEATING AIR FLOW FRACTION	DDC CONTROL (Y/N)	2. VENTILATION (§ 120.1): VENT SYSTEM ID	CONDITIONED AREA (ft2)	MIN. VENT PER AREA (CFM/ft2)	DESIGN NUM. OF PEOPLE	MIN. VENT PER PERSON (CFM/person)	REQ'D VENT AIR FLOW (CFM)	DESIGN VENT AIR FLOW (CFM)	TRANSFER AIRFLOW (CFM)	DCV (Y/N)	Operable Window Interlock § 140.4(n) (Y/N)	Confirmed: Pass	Fail
39-1-10	AHU-North	1,730	519	0.30	865	1	Y	AHU-North	1,339	NA	13.39	15.00	201	201	NA	N	NA	☐	☐
40-1-11	AHU-North	500	150	0.30	500	1	Y	AHU-North	212	NA	2.12	15.00	32	32	NA	N	NA	☐	☐
41-1-12	AHU-North	1,300	390	0.30	650	1	Y	AHU-North	1,007	NA	10.07	15.00	151	151	NA	N	NA	☐	☐
42-1-13	AHU-North	325	98	0.30	161	1	Y	AHU-North	250	NA	2.50	15.00	38	38	NA	N	NA	☐	☐
43-1-14	AHU-North	270	81	0.30	135	1	Y	AHU-North	208	NA	2.08	15.00	31	31	NA	N	NA	☐	☐
44-1-15	AHU-North	333	100	0.30	166	1	Y	AHU-North	258	NA	2.58	15.00	39	39	NA	N	NA	☐	☐
45-1-16	AHU-North	540	162	0.30	270	1	Y	AHU-North	417	NA	4.17	15.00	63	63	NA	N	NA	☐	☐
46-2-1	AHU-North	760	228	0.30	330		Y	AHU-North	456	NA	30.40	15.00	456	456	NA	Y	NA	☐	☐
47-2-2	AHU-North	1,000	300	0.30	500	1	Y	AHU-North	700	NA	35.00	15.00	525	525	NA	Y	NA	☐	☐
48-2-3	AHU-North	750	225	0.30	375	1	Y	AHU-North	579	NA	5.79	15.00	87	87	NA	N	NA	☐	☐
49-2-4	AHU-North	470	141	0.30	233	1	Y	AHU-North	361	NA	3.61	15.00	54	54	NA	N	NA	☐	☐
50-2-5	AHU-North	185	56	0.30	100	1	Y	AHU-North	142	NA	0.43	50.00	21	21	NA	N	NA	☐	☐
51-2-6	AHU-North	140	42	0.30	70	1	Y	AHU-North	105	NA	0.32	50.00	16	16	NA	N	NA	☐	☐
52-2-7	AHU-North	360	108	0.30	180	1	Y	AHU-North	277	NA	2.77	15.00	42	42	NA	N	NA	☐	☐
53-2-8	AHU-North	440	132	0.30	218	1	Y	AHU-North	337	NA	3.37	15.00	51	51	NA	N	NA	☐	☐
54-2-9	AHU-North	300	90	0.30	144		Y	AHU-North	223	NA	2.23	15.00	33	33	NA	N	NA	☐	☐
55-2-10	AHU-North	420	126	0.30	420	1	Y	AHU-North	324	NA	3.24	15.00	49	49	NA	N	NA	☐	☐
56-2-11	AHU-North	935	281	0.30	470	1	Y	AHU-North	724	NA	7.24	15.00	109	109	NA	N	NA	☐	☐
57-2-12	AHU-North	425	128	0.30	215	1	Y	AHU-North	329	NA	3.29	15.00	49	49	NA	N	NA	☐	☐
58-2-13	AHU-North	1,025	308	0.30	515	1	Y	AHU-North	792	NA	7.92	15.00	119	119	NA	N	NA	☐	☐

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-119686 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/14/2019

DIVISION OF THE STATE ARCHITECT
WELLS FARGO CENTER - SOUTH TOWER
355 SOUTH GRAND AVENUE, SUITE 2100
LOS ANGELES, CA 90071
ph:(213) 897-3995 fx:(213) 897-3159/0726

agency

tBP
architecture
planning
interiors

tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895

architect

CAPITAL
ENGINEERING CONSULTANTS, INC.
LONG BEACH, CALIFORNIA

RH - TS/SL/DV	170822.00
PM - DESIGN TEAM	PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER V. MERCURIO
M 34011
EXPIRES 3/30/20
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED: 08/16/19

consultant

COMPTON COLLEGE STUDENT SERVICES BLDG.

COMPTON COMMUNITY COLLEGE DISTRICT
1111 E. ARTESIA BLVD.
COMPTON, CA 90221

owner

tBP project number: 20987.00

file name: CECI_COMPTON CC STUDENT SERVICES_MP18_CENTRAL.RVT

drawn by: CECI checked by: CM

date: 9.03.2019

rev:	date:	description:

drawing title:
TITLE 24 COMPLIANCE

drawing no.:
M0-5

Project Name:	Compton CC	NRCC-PRF-01-E	Page 19 of 24
Project Address:	1111 E. Artesia Blvd. Compton 90221	Calculation Date/Time:	16:02, Wed, Feb 20, 2019
Compliance Scope:	NewEnvelopeAndMechanical	Input File Name:	Compton SS SBD Combo-3-CUP-T24.cibd16x

A. MECHANICAL VENTILATION AND REHEAT *(Adapted from 2016-NRCC-MCH-03-E)* — Confirmed

	1. DESIGN AIR FLOWS							2. VENTILATION (§ 120.1)											Confirmed	
CONDITIONED ZONE NAME	HEATING/COOLING SYSTEM ID	DESIGN PRIMARY AIR FLOW (CFM)	DESIGN PRIMARY MINIMUM AIR FLOW (CFM)	MINIMUM PRIMARY AIR FLOW FRACTION	MAXIMUM HEATING AIR FLOW (CFM)	MAXIMUM HEATING AIR FLOW FRACTION	DDC CONTROL (Y/N)	VENT SYSTEM ID	CONDITIONED AREA (ft2)	MIN. VENT PER AREA (CFM/ft2)	DESIGN NUM. OF PEOPLE	MIN. VENT PER PERSON (CFM/person)	REQ'D VENT AIR FLOW (CFM)	DESIGN VENT AIR FLOW (CFM)	TRANSFER AIRFLOW (CFM)	DCV (Y/N)	Operable Window Interlock § 140.4(n) (Y/N)	Pass	Fail
59-2-14	AHU-North	466	140	0.30	233	1	Y	AHU-North	361	NA	3.61	15.00	54	54	NA	N	NA	☐	☐
60-2-15	AHU-North	1,250	375	0.30	625	1	Y	AHU-North	969	NA	9.69	15.00	145	145	NA	N	NA	☐	☐
61-2-16	AHU-North	950	285	0.30	475	1	Y	AHU-North	732	NA	7.32	15.00	110	110	NA	N	NA	☐	☐
62-2-17	AHU-North	840	252	0.30	420	1	Y	AHU-North	649	NA	6.49	15.00	97	97	NA	N	NA	☐	☐
								TOTAL	30,655		489.52		7,392	7,392	NA			☐	☐

B. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY — § 140.4

1.	2.	3.	4.		5.	6.	7.			8.			Confirmed	
System ID	System Type	Qty	Rated Capacity (kBtuh)		Economizer	Zone Name	Airflow (cfm)			Fan			Pass	Fail
			Heating	Cooling			Design	Min.	Min. Ratio	BHP	Cycles	ECM Motor		
29-1-32-Trm	VAVReheatBox	1	40.00	NA	NA	29-1-32	281	84	0.30	NA	NA	☐	☐	☐
28-1-31-Trm	VAVReheatBox	1	40.00	NA	NA	28-1-31	320	96	0.30	NA	NA	☐	☐	☐
27-1-30-Trm	VAVReheatBox	1	40.00	NA	NA	27-1-30	315	95	0.30	NA	NA	☐	☐	☐
26-1-29-Trm	VAVReheatBox	1	40.00	NA	NA	26-1-29	700	210	0.30	NA	NA	☐	☐	☐
25-1-28-Trm	VAVReheatBox	1	40.00	NA	NA	25-1-28	770	231	0.30	NA	NA	☐	☐	☐
24-1-27-Trm	VAVReheatBox	1	40.00	NA	NA	24-1-27	2076	623	0.30	NA	NA	☐	☐	☐
23-1-26-Trm	VAVReheatBox	1	40.00	NA	NA	23-1-26	1235	371	0.30	NA	NA	☐	☐	☐
22-1-25-Trm	VAVReheatBox	1	40.00	NA	NA	22-1-25	570	171	0.30	NA	NA	☐	☐	☐

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B. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY — § 140.4

1.	2.	3.	4.		5.	6.	7.			8.			Confirmed	
System ID	System Type	Qty	Rated Capacity (kBtuh)		Economizer	Zone Name	Airflow (cfm)			Fan			Pass	Fail
			Heating	Cooling			Design	Min.	Min. Ratio	BHP	Cycles	ECM Motor		
21-1-24-Trm	VAVReheatBox	1	40.00	NA	NA	21-1-24	605	182	0.30	NA	NA	☐	☐	☐
20-1-23-Trm	VAVReheatBox	1	40.00	NA	NA	20-1-23	1510	453	0.30	NA	NA	☐	☐	☐
19-1-22-Trm	VAVReheatBox	1	40.00	NA	NA	19-1-22	510	153	0.30	NA	NA	☐	☐	☐
18-1-21-Trm	VAVReheatBox	1	40.00	NA	NA	18-1-21	1450	435	0.30	NA	NA	☐	☐	☐
17-1-20-Trm	VAVReheatBox	1	40.00	NA	NA	17-1-20	540	162	0.30	NA	NA	☐	☐	☐
16-1-19-Trm	VAVReheatBox	1	40.00	NA	NA	16-1-19	560	168	0.30	NA	NA	☐	☐	☐
15-1-18-Trm	VAVReheatBox	1	40.00	NA	NA	15-1-18	1750	525	0.30	NA	NA	☐	☐	☐
14-1-17-Trm	VAVReheatBox	1	40.00	NA	NA	14-1-17	2160	648	0.30	NA	NA	☐	☐	☐
13-2-18-Trm	VAVReheatBox	1	40.00	NA	NA	13-2-18	350	105	0.30	NA	NA	☐	☐	☐
12-2-19-Trm	VAVReheatBox	1	40.00	NA	NA	12-2-19	505	152	0.30	NA	NA	☐	☐	☐
11-2-20-Trm	VAVReheatBox	1	40.00	NA	NA	11-2-20	660	198	0.30	NA	NA	☐	☐	☐
10-2-22-Trm	VAVReheatBox	1	40.00	NA	NA	10-2-22	1460	438	0.30	NA	NA	☐	☐	☐
9-2-21-Trm	VAVReheatBox	1	40.00	NA	NA	9-2-21	750	225	0.30	NA	NA	☐	☐	☐
8-2-23-Trm	VAVReheatBox	1	40.00	NA	NA	8-2-23	520	156	0.30	NA	NA	☐	☐	☐
7-2-24-Trm	VAVReheatBox	1	40.00	NA	NA	7-2-24	1950	585	0.30	NA	NA	☐	☐	☐
6-2-25-Trm	VAVReheatBox	1	40.00	NA	NA	6-2-25	286	86	0.30	NA	NA	☐	☐	☐
5-2-26-Trm	VAVReheatBox	1	40.00	NA	NA	5-2-26	700	210	0.30	NA	NA	☐	☐	☐
4-2-27-Trm	VAVReheatBox	1	40.00	NA	NA	4-2-27	1171	351	0.30	NA	NA	☐	☐	☐
3-2-28-Trm	VAVReheatBox	1	40.00	NA	NA	3-2-28	390	117	0.30	NA	NA	☐	☐	☐
2-2-29-Trm	VAVReheatBox	1	40.00	NA	NA	2-2-29	360	108	0.30	NA	NA	☐	☐	☐
1-2-30-Trm	VAVReheatBox	1	40.00	NA	NA	1-2-30	633	190	0.30	NA	NA	☐	☐	☐
62-2-17-Trm	VAVReheatBox	1	40.00	NA	NA	62-2-17	840	252	0.30	NA	NA	☐	☐	☐
61-2-16-Trm	VAVReheatBox	1	40.00	NA	NA	61-2-16	950	285	0.30	NA	NA	☐	☐	☐
60-2-15-Trm	VAVReheatBox	1	40.00	NA	NA	60-2-15	1250	375	0.30	NA	NA	☐	☐	☐

Project Name:	Compton CC	NRCC-PRF-01-E	Page 21 of 24
Project Address:	1111 E. Artesia Blvd. Compton 90221	Calculation Date/Time:	16:02, Wed, Feb 20, 2019
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B. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY — § 140.4

1.	2.	3.	4.		5.	6.	7.			8.			Confirmed	
System ID	System Type	Qty	Rated Capacity (kBtuh)		Economizer	Zone Name	Airflow (cfm)			Fan			Pass	Fail
			Heating	Cooling			Design	Min.	Min. Ratio	BHP	Cycles	ECM Motor		
59-2-14-Trm	VAVReheatBox	1	40.00	NA	NA	59-2-14	466	140	0.30	NA	NA	☐	☐	☐
58-2-13-Trm	VAVReheatBox	1	40.00	NA	NA	58-2-13	1025	308	0.30	NA	NA	☐	☐	☐
57-2-12-Trm	VAVReheatBox	1	40.00	NA	NA	57-2-12	425	128	0.30	NA	NA	☐	☐	☐
56-2-11-Trm	VAVReheatBox	1	40.00	NA	NA	56-2-11	935	281	0.30	NA	NA	☐	☐	☐
55-2-10-Trm	VAVReheatBox	1	40.00	NA	NA	55-2-10	420	126	0.30	NA	NA	☐	☐	☐
54-2-9-Trm	VAVReheatBox	1	40.00	NA	NA	54-2-9	300	90	0.30	NA	NA	☐	☐	☐
53-2-8-Trm	VAVReheatBox	1	40.00	NA	NA	53-2-8	440	132	0.30	NA	NA	☐	☐	☐
52-2-7-Trm	VAVReheatBox	1	40.00	NA	NA	52-2-7	360	108	0.30	NA	NA	☐	☐	☐
51-2-6-Trm	VAVReheatBox	1	40.00	NA	NA	51-2-6	140	42	0.30	NA	NA	☐	☐	☐
50-2-5-Trm	VAVReheatBox	1	40.00	NA	NA	50-2-5	185	56	0.30	NA	NA	☐	☐	☐
49-2-4-Trm	VAVReheatBox	1	40.00	NA	NA	49-2-4	470	141	0.30	NA	NA	☐	☐	☐
48-2-3-Trm	VAVReheatBox	1	40.00	NA	NA	48-2-3	750	225	0.30	NA	NA	☐	☐	☐
47-2-2-Trm	VAVReheatBox	1	40.00	NA	NA	47-2-2	1000	300	0.30	NA	NA	☐	☐	☐
46-2-1-Trm	VAVReheatBox	1	40.00	NA	NA	46-2-1	760	228	0.30	NA	NA	☐	☐	☐
45-1-16-Trm	VAVReheatBox	1	40.00	NA	NA	45-1-16	540	162	0.30	NA	NA	☐	☐	☐
44-1-15-Trm	VAVReheatBox	1	40.00	NA	NA	44-1-15	333	100	0.30	NA	NA	☐	☐	☐
43-1-14-Trm	VAVReheatBox	1	40.00	NA	NA	43-1-14	270	81	0.30	NA	NA	☐	☐	☐
42-1-13-Trm	VAVReheatBox	1	40.00	NA	NA	42-1-13	325	98	0.30	NA	NA	☐	☐	☐
41-1-12-Trm	VAVReheatBox	1	40.00	NA	NA	41-1-12	1300	390	0.30	NA	NA	☐	☐	☐
40-1-11-Trm	VAVReheatBox	1	40.00	NA	NA	40-1-11	500	150	0.30	NA	NA	☐	☐	☐
39-1-10-Trm	VAVReheatBox	1	40.00	NA	NA	39-1-10	1730	519	0.30	NA	NA	☐	☐	☐
38-1-9-Trm	VAVReheatBox	1	40.00	NA	NA	38-1-9	900	270	0.30	NA	NA	☐	☐	☐
37-1-8-Trm	VAVReheatBox	1	40.00	NA	NA	37-1-8	430	129	0.30	NA	NA	☐	☐	☐
36-1-7-Trm	VAVReheatBox	1	40.00	NA	NA	36-1-7	170	51	0.30	NA	NA	☐	☐	☐

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B. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY — § 140.4

1.	2.	3.	4.		5.	6.	7.			8.			Confirmed	
System ID	System Type	Qty	Rated Capacity (kBtuh)		Economizer	Zone Name	Airflow (cfm)			Fan			Pass	Fail
			Heating	Cooling			Design	Min.	Min. Ratio	BHP	Cycles	ECM Motor		
35-1-6-Trm	VAVReheatBox	1	40.00	NA	NA	35-1-6	200	60	0.30	NA	NA	☐	☐	☐
34-1-5-Trm	VAVReheatBox	1	40.00	NA	NA	34-1-5	460	138	0.30	NA	NA	☐	☐	☐
33-1-4-Trm	VAVReheatBox	1	40.00	NA	NA	33-1-4	280	84	0.30	NA	NA	☐	☐	☐
32-1-3-Trm	VAVReheatBox	1	40.00	NA	NA	32-1-3	540	162	0.30	NA	NA	☐	☐	☐
31-1-2-Trm	VAVReheatBox	1	40.00	NA	NA	31-1-2	560	168	0.30	NA	NA	☐	☐	☐
30-1-1-Trm	VAVReheatBox	1	40.00	NA	NA	30-1-1	725	218	0.30	NA	NA	☐	☐	☐

C. EXHAUST FAN SUMMARY

This Section Does Not Apply

D. DHW EQUIPMENT SUMMARY – *(Adapted from NRCC-PLB-01)* — § 110.3 — Confirmed

1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Confirmed	
DHW Name	Heater Element Type	Tank Type	Qty	Tank Vol (gal)	Rated Input (kBtu/h)	Efficiency	Tank Insulation R-value (Int/Ext)	Standby Loss Fraction	Heat Pump Type	Tank Location or Ambient Condition	Pass	Fail
Standard Gas Tankless3	Gas	Instantaneous	1	1.00	199	EF: 0.82	NA	SBLF: NA	NA	NA	☐	☐

E. MULTI-FAMILY CENTRAL DHW SYSTEM DETAILS

This Section Does Not Apply

F. SOLAR HOT WATER HEATING SUMMARY (Adapted from NRCC-STH-01)

This Section Does Not Apply

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G. MECHANICAL HVAC ACCEPTANCE TESTS & FORMS *(Adapted from 2016-NRCC-MCH-01-E)* — § RA4

Declaration of Required Acceptance Certificates (NRCA) – Acceptance Certificates that may be submitted. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).

Test Description		MCH-02A	MCH-03A	MCH-04A	MCH-05A	MCH-06A	MCH-07A	MCH-08A	MCH-09A	MCH-10A	MCH-11A	MCH-12A	MCH-13A	MCH-14A	MCH-15A	MCH-16A	MCH-17A	MCH-18A	Confirmed	
Equipment Requiring Testing or Verification	# of units	Outdoor Air	Single Zone Unitary	Air Dist. Ducts	Economizer Controls	DCV	Supply Fan VAV	Valve leakage	Supply Water Temp. Reset	Hyd. Variable Flow Control	Auto Demand Shed Control	FDD for DX Units	Auto FDD for Air & Zone	Dist. Energy Storage DX AC	TES Systems	Supply Air Temp. Reset	Condenser Water Reset Controls	ECMS	Pass	Fail
Undefined Plant1 - HotWater	1	--	--	--	--	--	--	X	X	X	--	--	--	--	--	--	--	--	☐	☐
Undefined Plant1 - SHW	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
Undefined Plant1 - CW	1	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	X	--	☐	☐
Undefined Plant1 - ChillSys	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
AHU-South	1	X	--	--	X	X	X	--	--	--	X	--	--	--	--	X	--	--	☐	☐
AHU-North	1	X	--	--	X	X	X	--	--	--	X	--	--	--	--	X	--	--	☐	☐

H. EVAPORATIVE COOLER SUMMARY

This Section Does Not Apply

Project Name:	Compton CC	NRCC-PRF-01-E	Page 24 of 24
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NRCC-PRF-LTI-DETAILS -SECTION START-

A. INDOOR CONDITIONED LIGHTING CONTROL CREDITS (Adapted from NRCC-LTI-02-E) — § 140.6

This Section Does Not Apply

B. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROLS (Adapted from NRCC-LTI-02-E) — § 130.1

This Section Does Not Apply

C. TAILORED METHOD CONDITIONED LIGHTING POWER ALLOWANCE SUMMARY AND CHECKLIST (Adapted from NRCC-LTI-04-E) — § 140.6

This Section Does Not Apply

D. GENERAL LIGHTING POWER (Adapted from NRCC-LTI-04-E) — § 140.6-D

This Section Does Not Apply

E. GENERAL LIGHTING FROM SPECIAL FUNCTION AREAS (Adapted from NRCC-LTI-04-E) — § 140.6(c) 3H

This Section Does Not Apply

F. ROOM CAVITY RATIO (Adapted from NRCC-LTI-04-E)

This Section Does Not Apply

G. ADDITIONAL "USE IT OR LOSE IT" (Adapted from NRCC-LTI-04-E)

This Section Does Not Apply

H. INDOOR & OUTDOOR LIGHTING ACCEPTANCE TESTS & FORMS (Adapted from NRCC-LTI-01-E and NRCC-LTO-01-E) — § 130.4

This Section Does Not Apply

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-119686 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/14/2019

DIVISION OF THE STATE ARCHITECT
WELLS FARGO CENTER - SOUTH TOWER
355 SOUTH GRAND AVENUE, SUITE 2100
LOS ANGELES, CA 90071
ph:(213) 897-3995 fx:(213) 897-3159/0726
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tBP/Architecture
4611 Teller Avenue
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architect

CAPITAL
ENGINEERING CONSULTANTS, INC.
LONG BEACH, CALIFORNIA
RH - TS/SL/DV — PM - DESIGN TEAM
170822.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER V. MERCURIO
M 34011
EXPIRES 3/30/20
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED: 08/16/19
consultant

COMPTON COLLEGE STUDENT SERVICES BLDG.

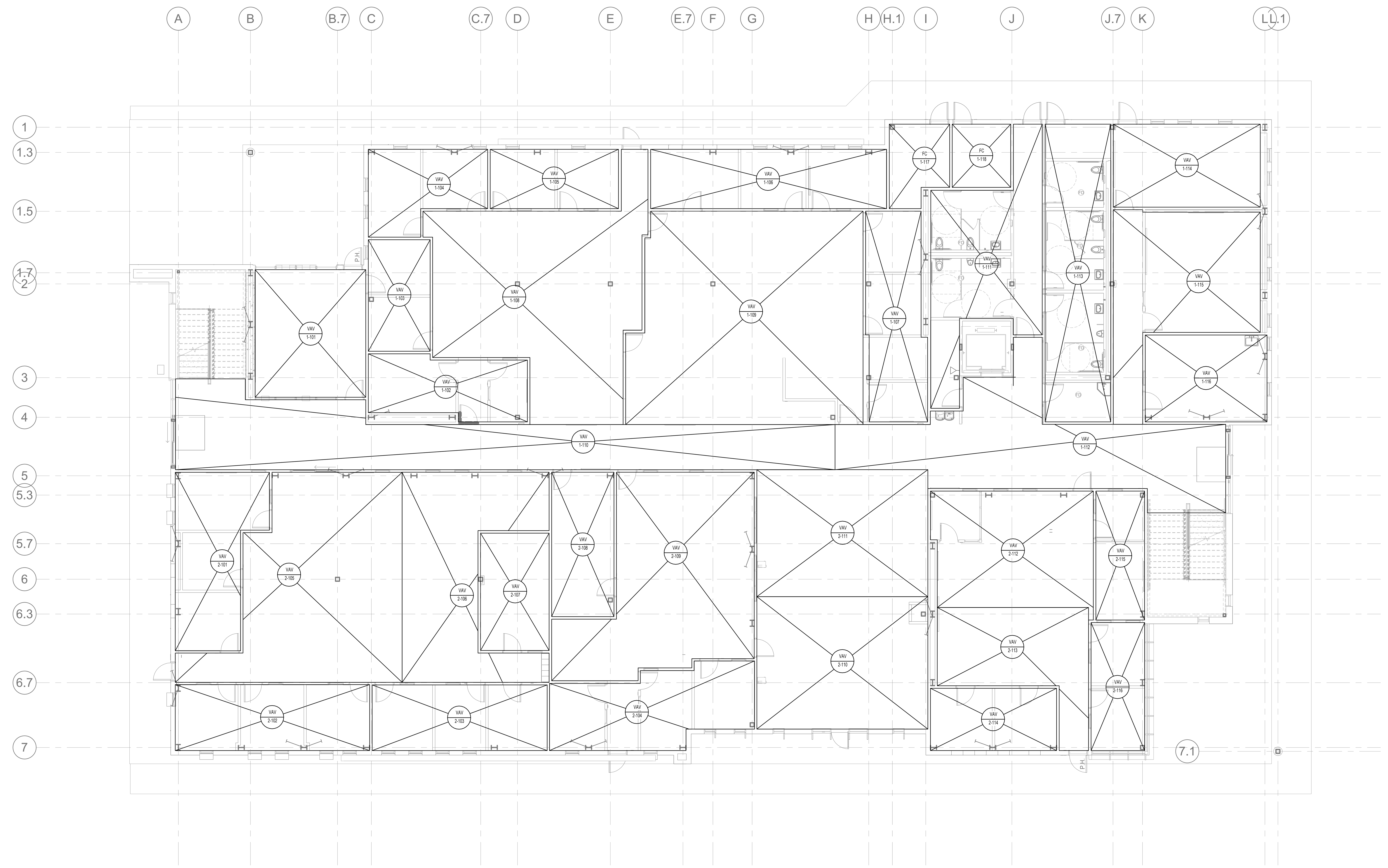
COMPTON COMMUNITY COLLEGE DISTRICT
1111 E. ARTESIA BLVD.
COMPTON, CA 90221
owner

tBP project number: 20987.00
file name: CECI_COMPTON CC STUDENT SERVICES_MP18_CENTRAL.RVT
drawn by: CECI checked by: CM
date: 9.03.2019

rev:	date:	description:

drawing title:
TITLE 24 COMPLIANCE

drawing no.:
M0-6



FIRST FLOOR ZONING PLAN 1
SCALE 1/8" = 1'-0"

NORTH

MECHANICAL ZONING PLAN LEGEND

VAV NUMBER

X - YZZ

X: AHU IDENTIFIER

Y: FLOOR LEVEL

ZZ: VAV NUMBER

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-119686 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/14/2019

DIVISION OF THE STATE ARCHITECT
WELLS FARGO CENTER - SOUTH TOWER
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architect

CAPITAL ENGINEERING CONSULTANTS, INC.
LONG BEACH, CALIFORNIA
RH - TS/SL/DV 170822.00
PM - DESIGN TEAM PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER V. MERCURIO
M 34011
EXP. 9-30-20
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED: 08/16/19

consultant

COMPTON COLLEGE
STUDENT SERVICES BLDG.

COMPTON COMMUNITY COLLEGE DISTRICT
1111 E. ARTESIA BLVD.
COMPTON, CA 90221

owner

tBP project number: 20987.00

file name: CECI_COMPTON CC STUDENT SERVICES_MP18_CENTRAL.RVT

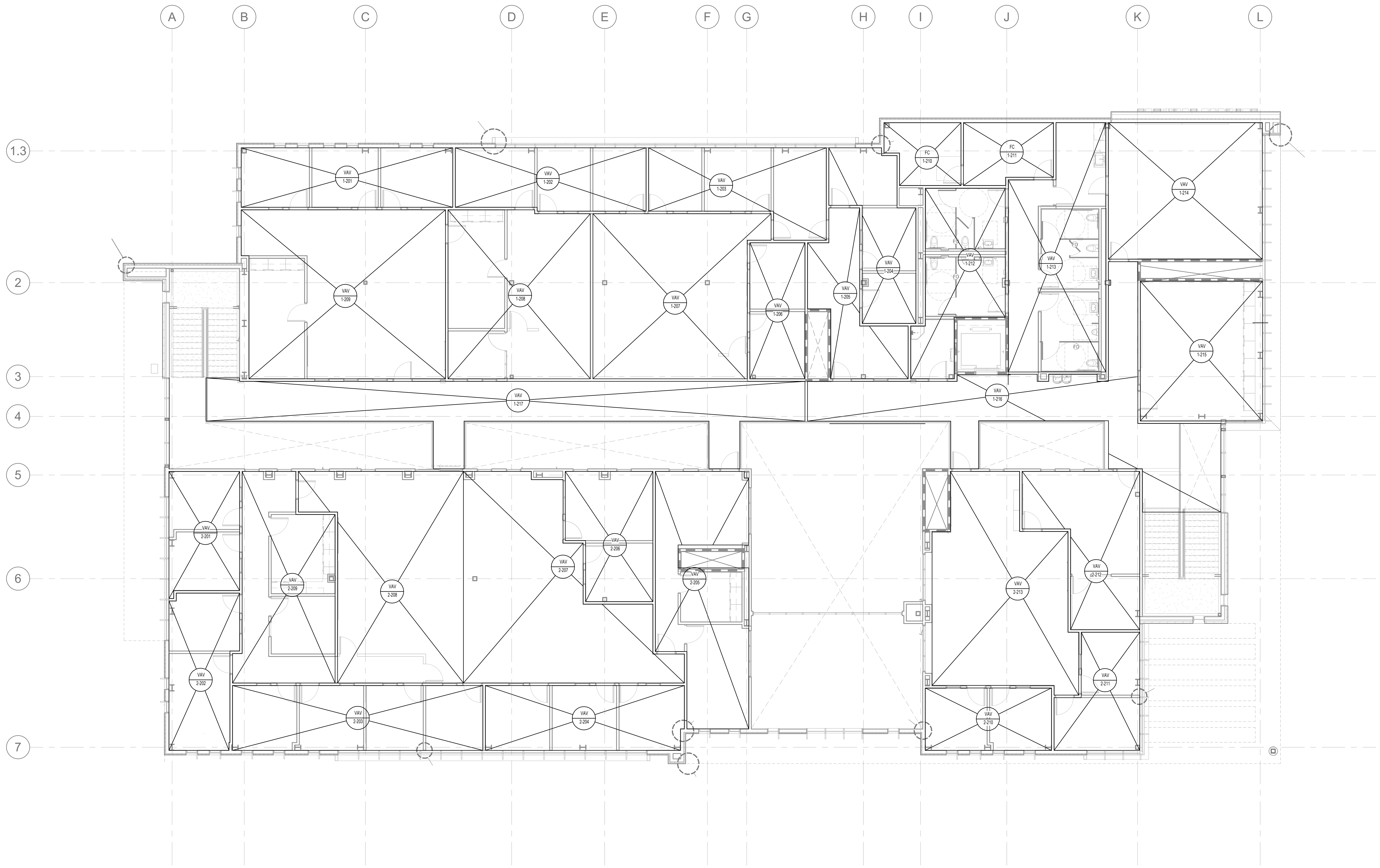
drawn by: CECI checked by: CM

date: 9.03.2019

rev: date: description:

drawing title:
MECHANICAL ZONING PLAN FIRST FLOOR PLAN

drawing no.:
MZ1-1



SECOND FLOOR ZONING PLAN 1
SCALE 1/8" = 1'-0"
NORTH

MECHANICAL ZONING PLAN LEGEND

VAV NUMBER

X - YZZ

X: AHU IDENTIFIER

Y: FLOOR LEVEL

ZZ: VAV NUMBER

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-119686 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/14/2019

DIVISION OF THE STATE ARCHITECT
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architect

CAPITAL ENGINEERING CONSULTANTS, INC.
LONG BEACH, CALIFORNIA
RH - TS/SL/DV 170822.00
PM - DESIGN TEAM PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
M 34011
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED: 08/16/19

consultant

COMPTON COLLEGE
STUDENT SERVICES BLDG.

COMPTON COMMUNITY COLLEGE DISTRICT
1111 E. ARTESIA BLVD.
COMPTON, CA 90221

owner

tBP project number: 20987.00

file name: CECI_COMPTON CC STUDENT SERVICES_MP18_CENTRAL.RVT

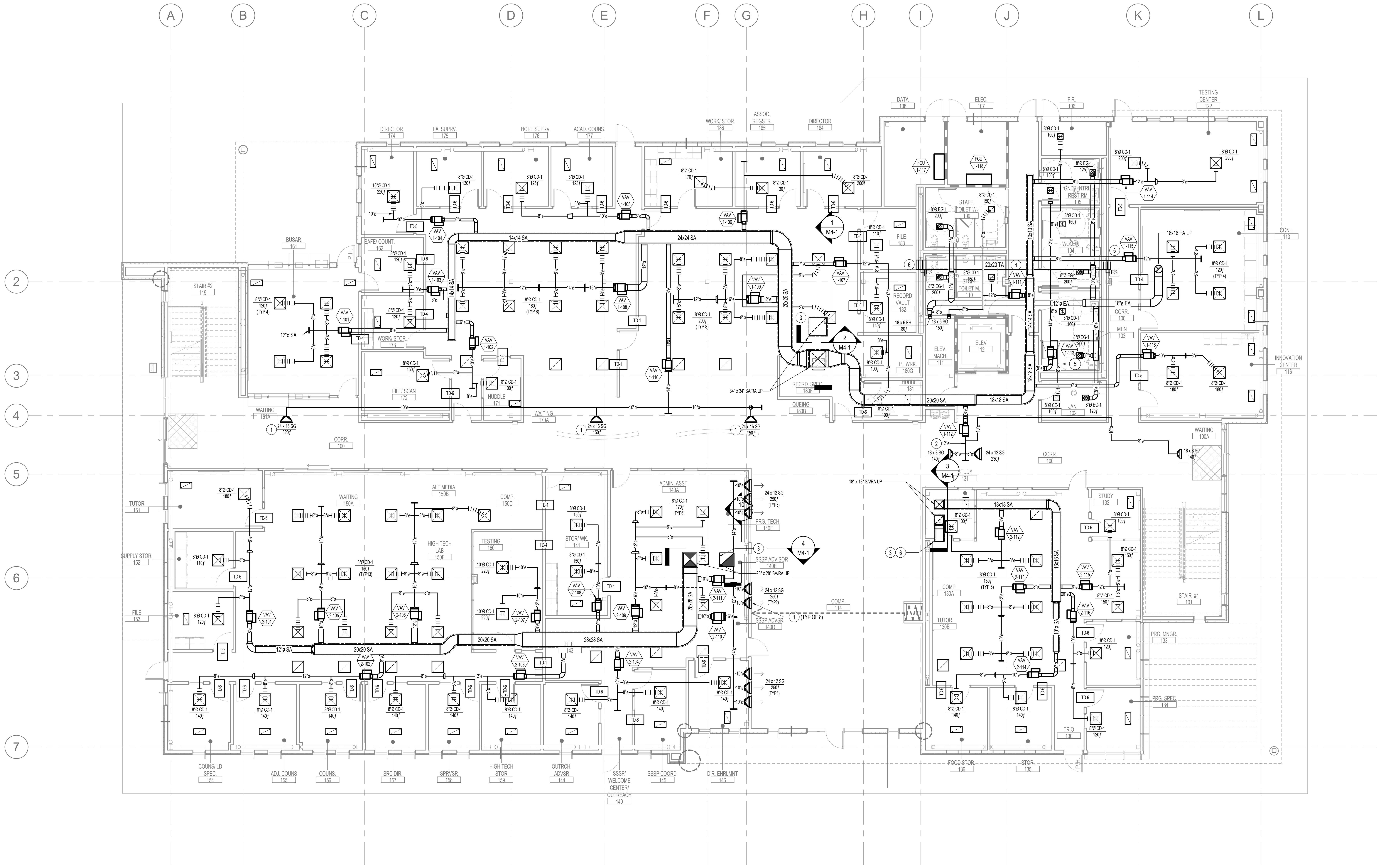
drawn by: CECI checked by: CM

date: 9.03.2019

rev:	date:	description:

drawing title:
MECHANICAL ZONING PLAN SECOND FLOOR PLAN

drawing no.:
MZ1-2



MECHANICAL FIRST FLOOR PLAN (1)

SCALE 1/8" = 1'-0"

NORTH

GENERAL NOTES:

1. RETURN AIR SYSTEM IS A CEILING PLENUM. SOUND ELBOWS ARE TO BE INSTALLED AT ALL FULL HEIGHT WALLS. FOR RETURN PLENUM SEE SHEET M4-1.
2. FOR ROOM T-STATS SEE SHEET MP1-1
3. FOR TRANSFER DUCT SIZE SEE DETAIL 6/M7-1
4. MATERIALS EXPOSED WITHIN DUCTS OR PLENUMS SHALL BE NON-BOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX NOT TO EXCEED 25 AND A SMOKE DEVELOPED INDEX NOT TO EXCEED 50 WHERE TESTED AS A COMPOSITE PRODUCT IN ACCORDANCE WITH ASTM E84 OR UL 723; C.M.C.602.2.

KEY NOTES:

1. WALL MOUNTED SUPPLY REGISTER
2. DUCT ROUTED BELOW WALKWAY ABOVE.
3. RETURN AIR DUCT OPEN TO CEILING PLENUM.
4. 20" x 20" R.A. TRANSFER DUCT.
5. 24 x 24 ACCESS DOOR HATCH CEILING COLOR.
6. RETURN AIR WITH WIRE MESH SCREEN

MECHANICAL LEGEND:

- 24 x 12 RETURN GRILLE
- 24 x 24 RETURN GRILLE

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WELLS FARGO CENTER - SOUTH TOWER
355 SOUTH GRAND AVENUE, SUITE 2100
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LONG BEACH, CALIFORNIA
RH - TS/SL/DV 170822.00
PM - DESIGN TEAM PROJECT NO.

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M 34011
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED: 08/16/19

consultant

COMPTON COLLEGE STUDENT SERVICES BLDG.

COMPTON COMMUNITY COLLEGE DISTRICT
1111 E. ARTESIA BLVD.
COMPTON, CA 90221

owner

tBP project number: 20987.00

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drawn by: CECI checked by: CM

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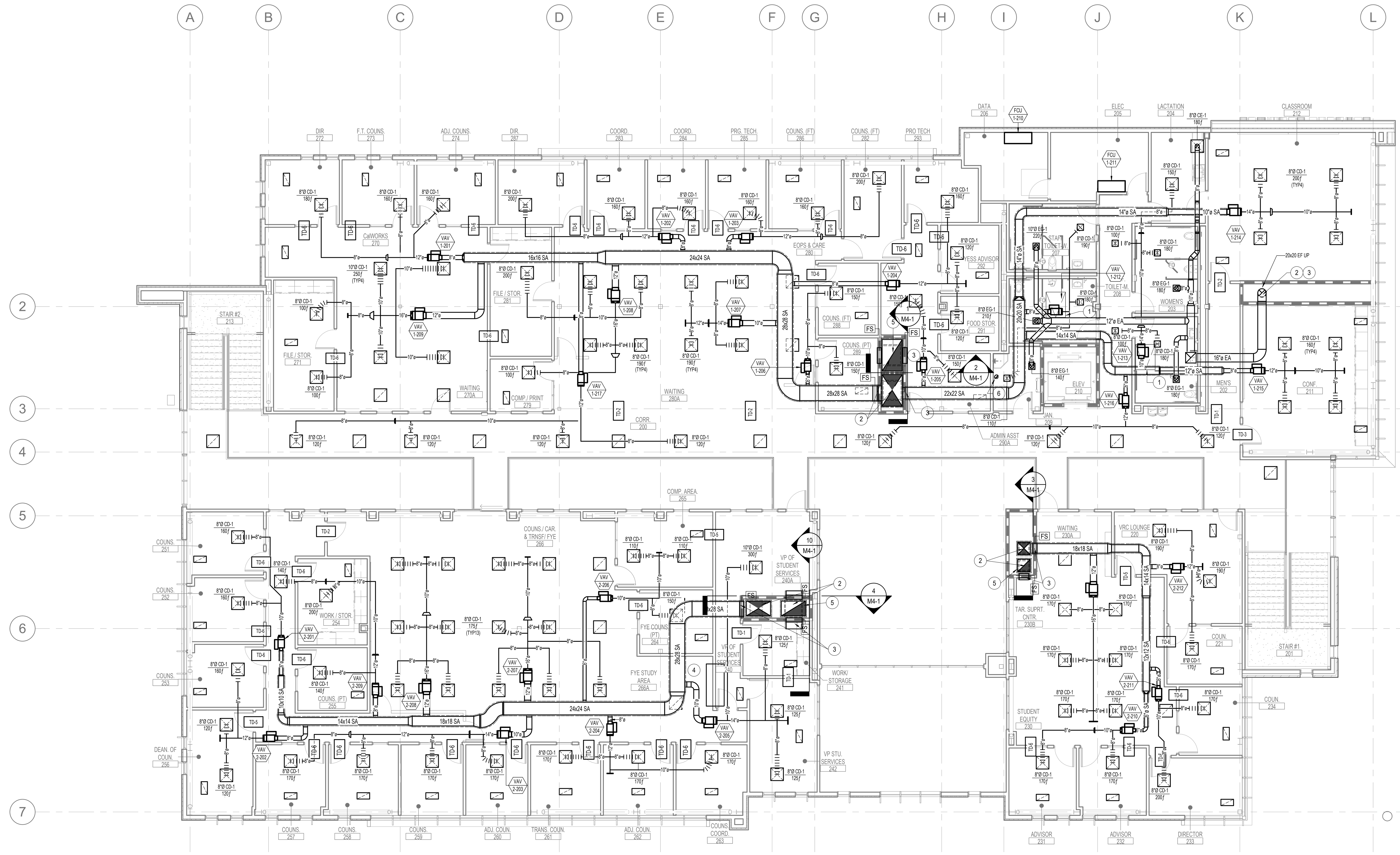
drawing title:
MECHANICAL FIRST FLOOR PLAN

drawing no.:
M1-1



MECHANICAL SECOND FLOOR PLAN 1
SCALE 1/8" = 1'-0"

NORTH

GENERAL NOTES:

1. RETURN AIR SYSTEM IS A CEILING PLENUM. SOUND ELBOWS ARE TO BE INSTALLED AT ALL FULL HEIGHT WALLS. FOR RETURN PLENUM SEE SHEET M4-1.
2. FOR ROOM T-STATS SEE SHEET MP1-2.
3. FOR TRANSFER DUCT SIZE SEE DETAIL 6/M7-1.
4. MATERIALS EXPOSED WITHIN DUCTS OR PLENUMS SHALL BE NON-BOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX NOT TO EXCEED 25 AND A SMOKE DEVELOPED INDEX NOT TO EXCEED 50 WHERE TESTED AS A COMPOSITE PRODUCT IN ACCORDANCE WITH ASTM E84 OR UL 723; C.M.C.602.2.

KEY NOTES:

1 24 x 24 ACCESS DOOR HATCH CEILING COLOR.
2 PROVIDE AND INSTALL HORIZONTAL TYPE CSFD. PRIOR TO FLOOR PENETRATION.
3 PROVIDE AND INSTALL 24 x 24 ACCESS DOOR AT 6" AFF.
4 80 x 20 RA OPENING
5 FOR RA DUCT SIZES SEE SHEET M4-1
6 8X8 COMBUSTION AIR DUCT FROM IV-1 ON ROOF TRANSITION TO 8"DIA. DUCT, TERMINATE 12" ABOVE TOP OF WATER HEATER WITH 1/4" WIRE MESH GRILLE.

MECHANICAL LEGEND:

24 x 12 RETURN GRILLE
24 x 24 RETURN GRILLE

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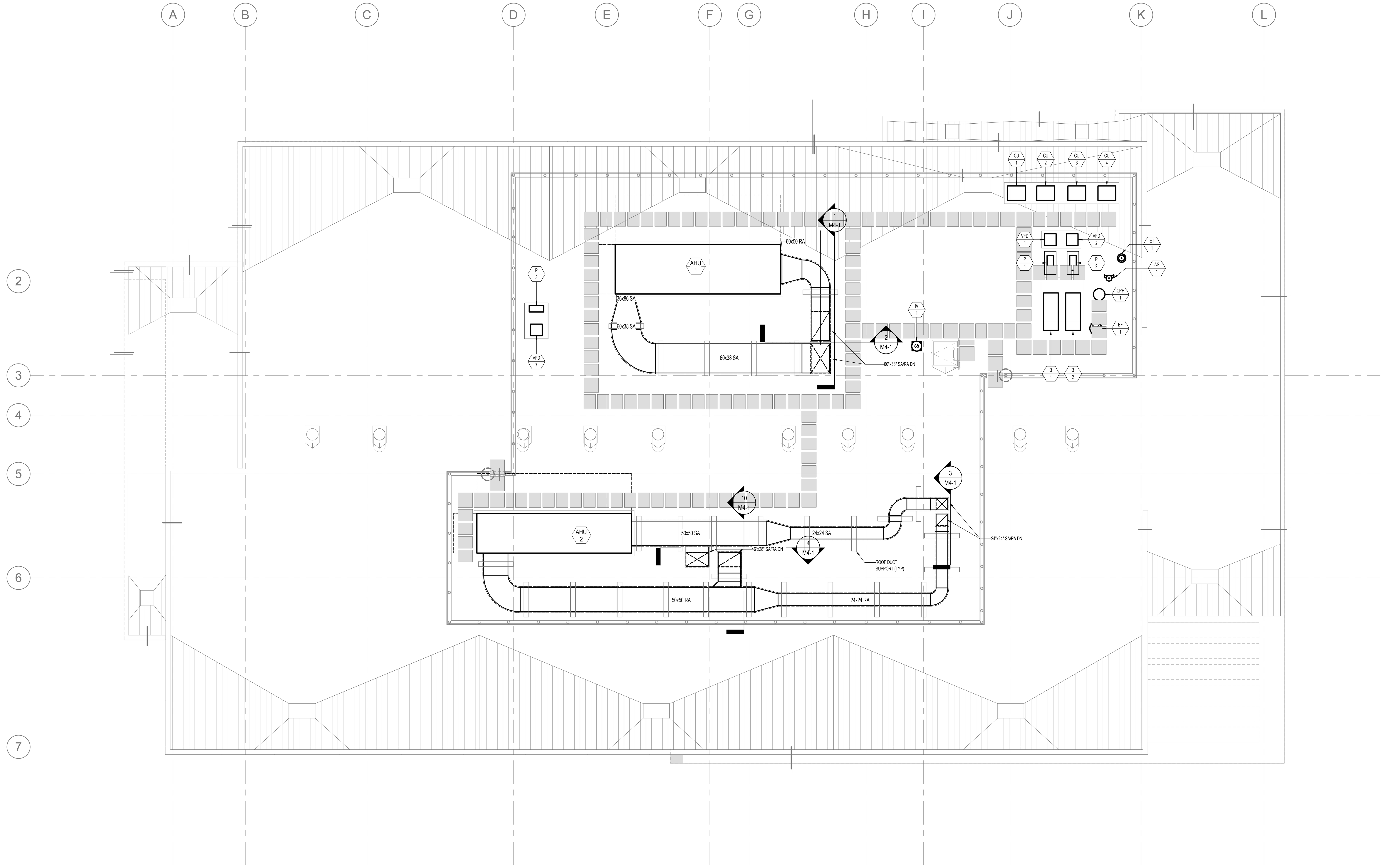
drawing title:
MECHANICAL SECOND FLOOR PLAN

drawing no.:
M1-2



MECHANICAL ROOF PLAN (1)

SCALE 1/8" = 1'-0"

NORTH

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REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER V. MERCURIO
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EXPIRES 3/30/20
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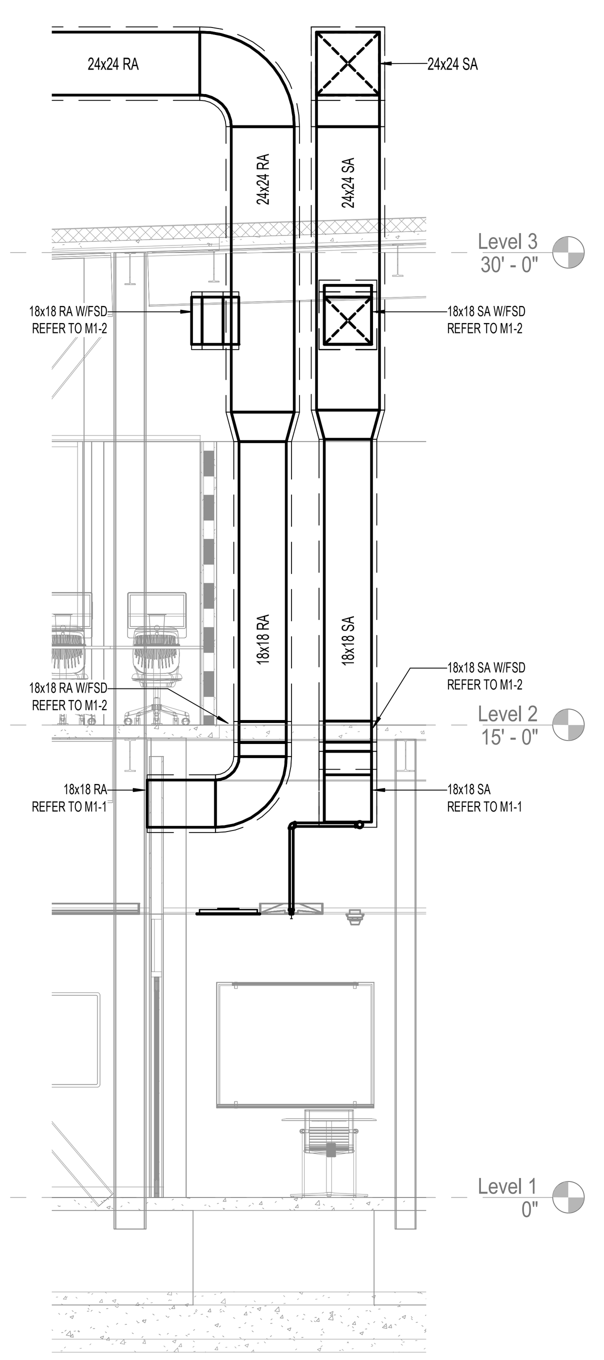
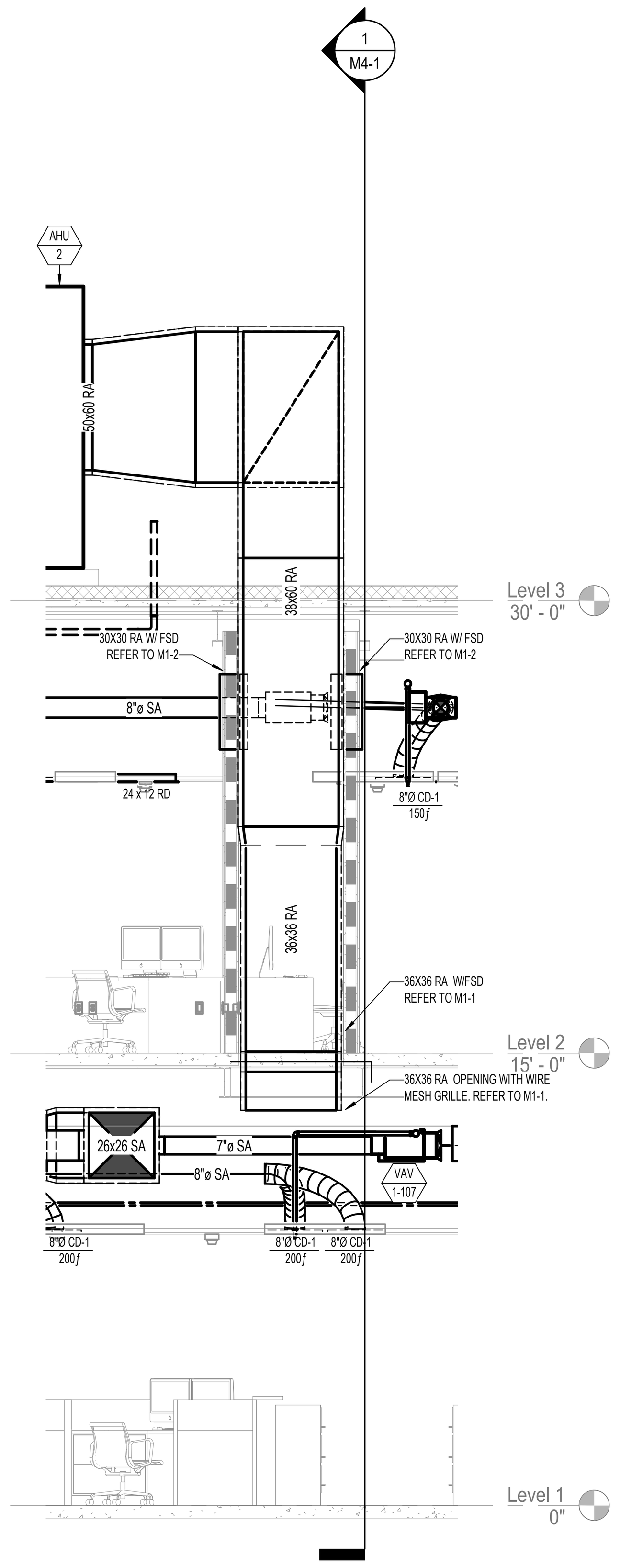
MECHANICAL ROOF PLAN

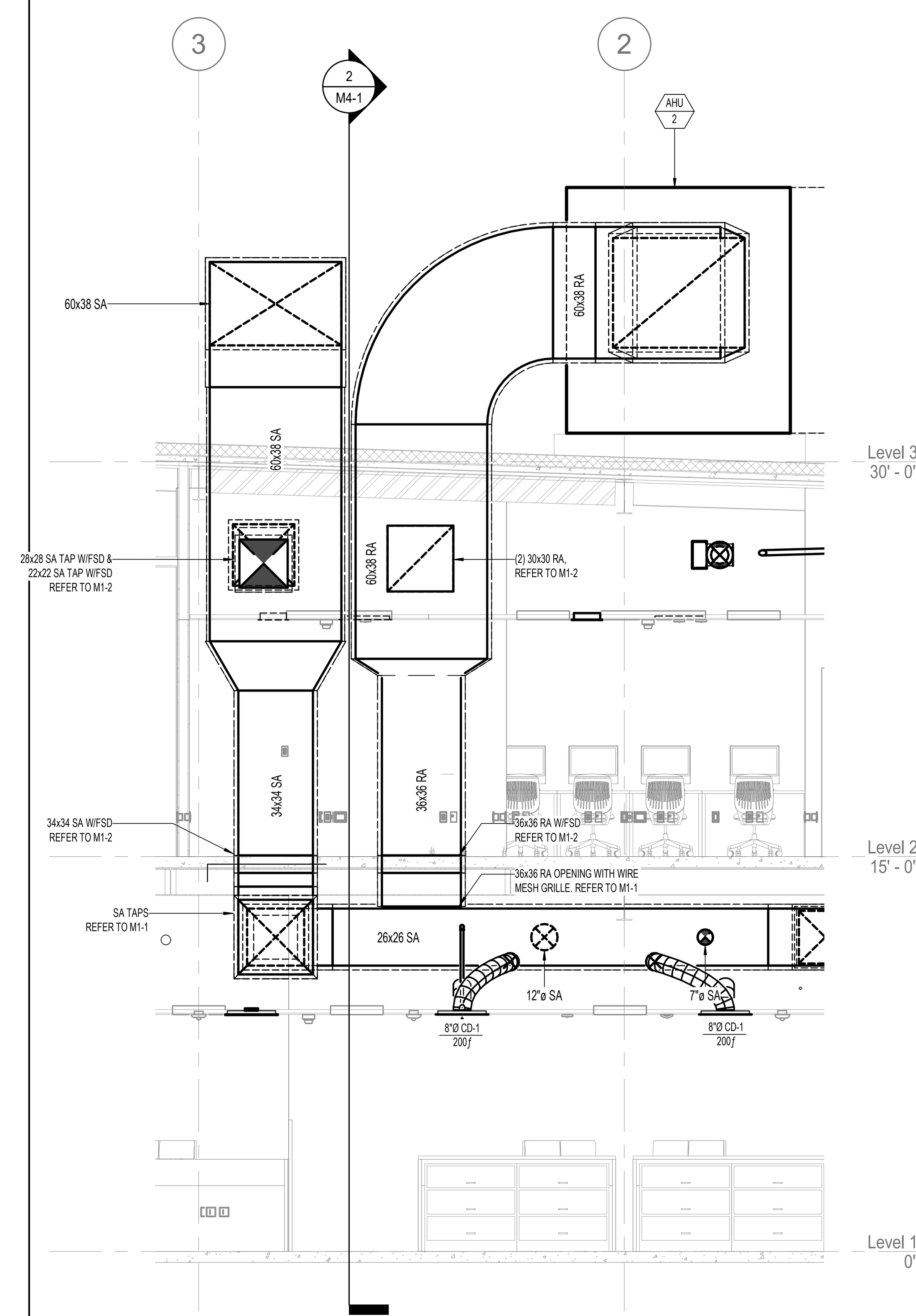
drawing no.:
M3-1



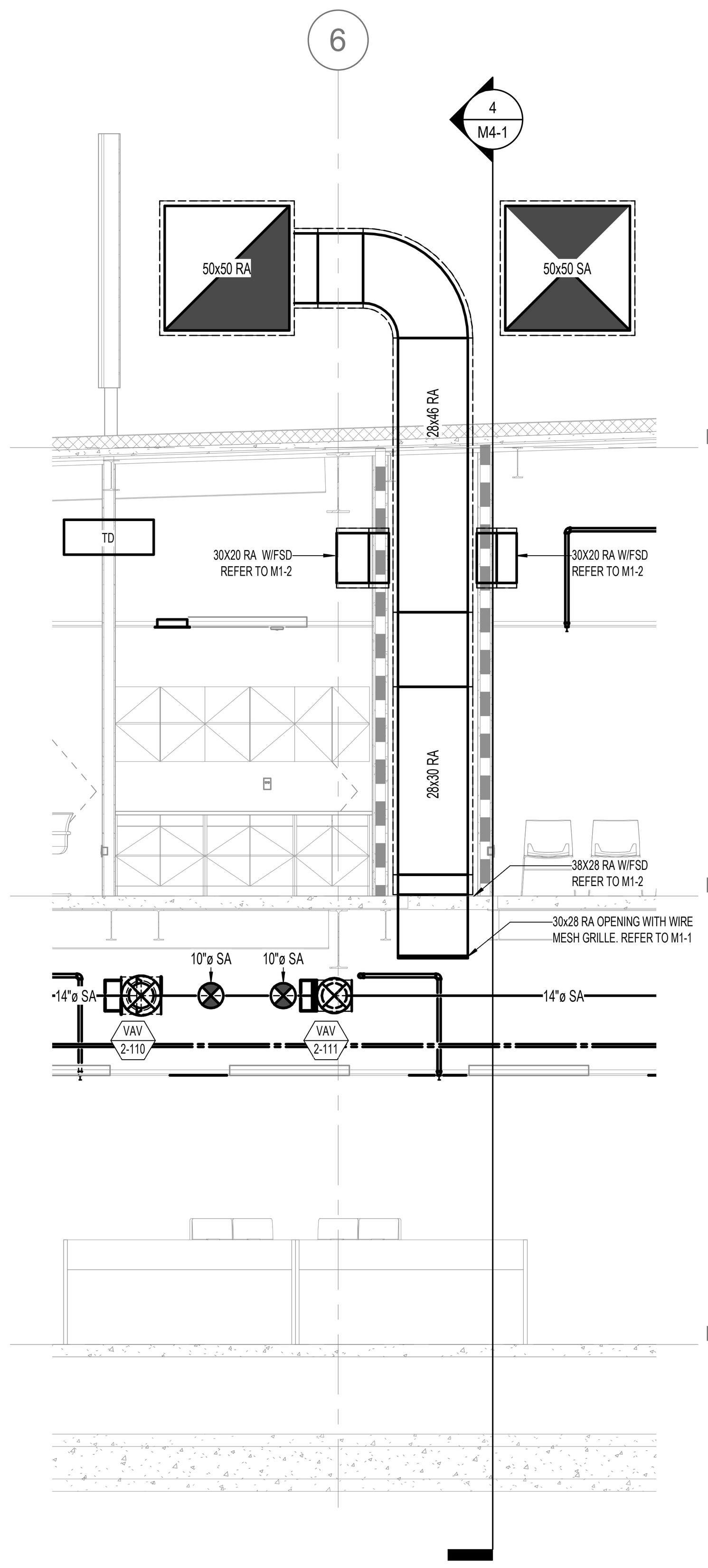
3 AHU-2 EAST SHAFT - 1
M4-1 SCALE: 1/4" = 1'-0"



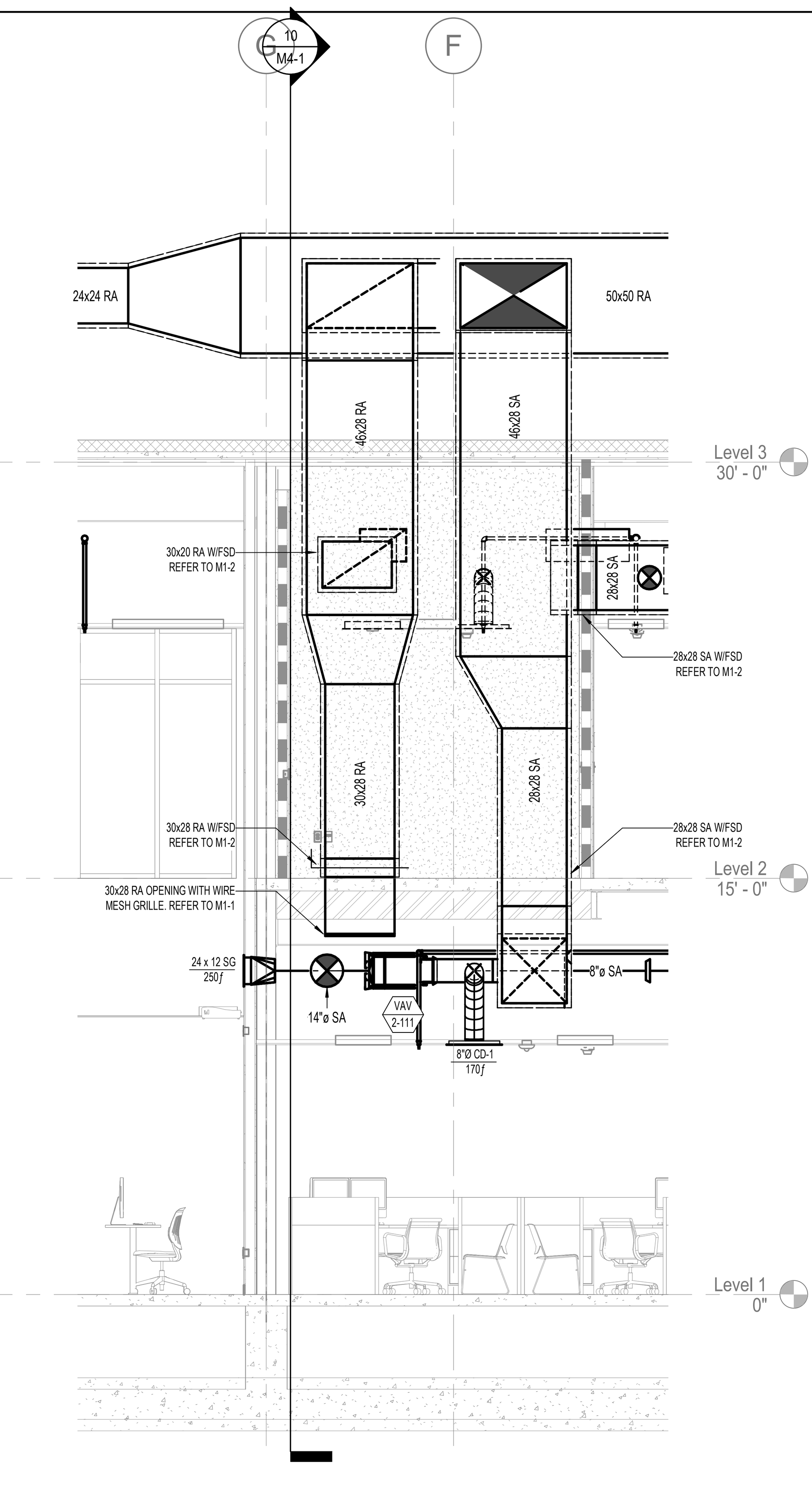
2 AHU-1 SHAFT SECTION - 2
M4-1 SCALE: 1/4" = 1'-0"



1 AHU-1 SHAFT SECTION - 1
M4-1 SCALE: 1/4" = 1'-0"



10 AHU-2 WEST SHAFT - 2
M4-1 SCALE: 1/4" = 1'-0"



4 AHU-2 WEST SHAFT - 1
M4-1 SCALE: 1/4" = 1'-0"

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MECHANICAL SECTIONS

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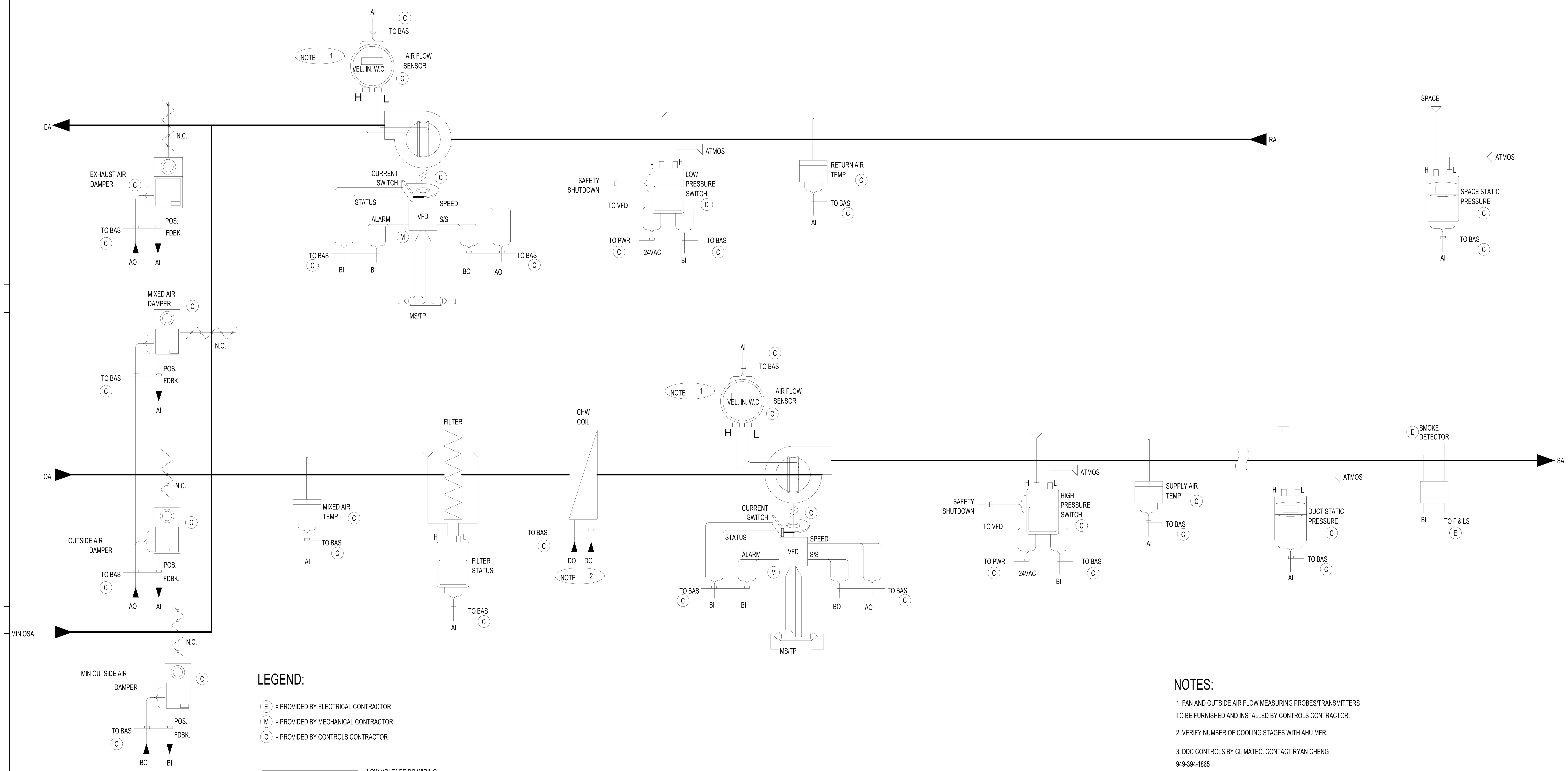
M4-1



LEGEND:

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- (M) = PROVIDED BY MECHANICAL CONTRACTOR
- (C) = PROVIDED BY CONTROLS CONTRACTOR

LOW VOLTAGE DC WIRING

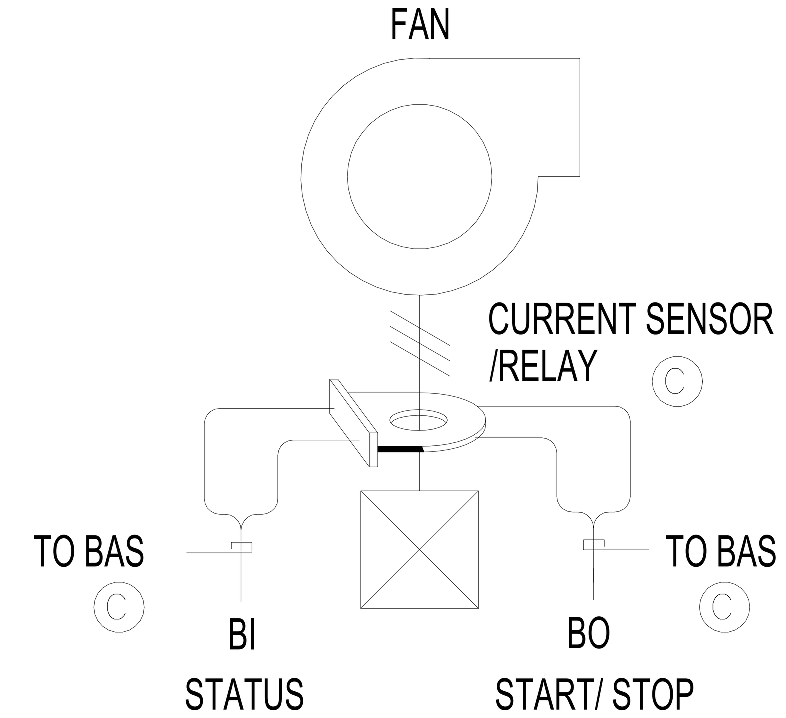
LINE VOLTAGE AC WIRING

CAT-5 CABLING

NOTES:

1. FAN AND OUTSIDE AIR FLOW MEASURING PROBES/TRANSMITTERS TO BE FURNISHED AND INSTALLED BY CONTROLS CONTRACTOR.
2. VERIFY NUMBER OF COOLING STAGES WITH AHU MFR.
3. DDC CONTROLS BY CLIMATEC. CONTACT RYAN CHENG 949-394-1865

AHU CONTROL DIAGRAM (TYPICAL)



EXHAUST FAN CONTROL DIAGRAM (TYP.)

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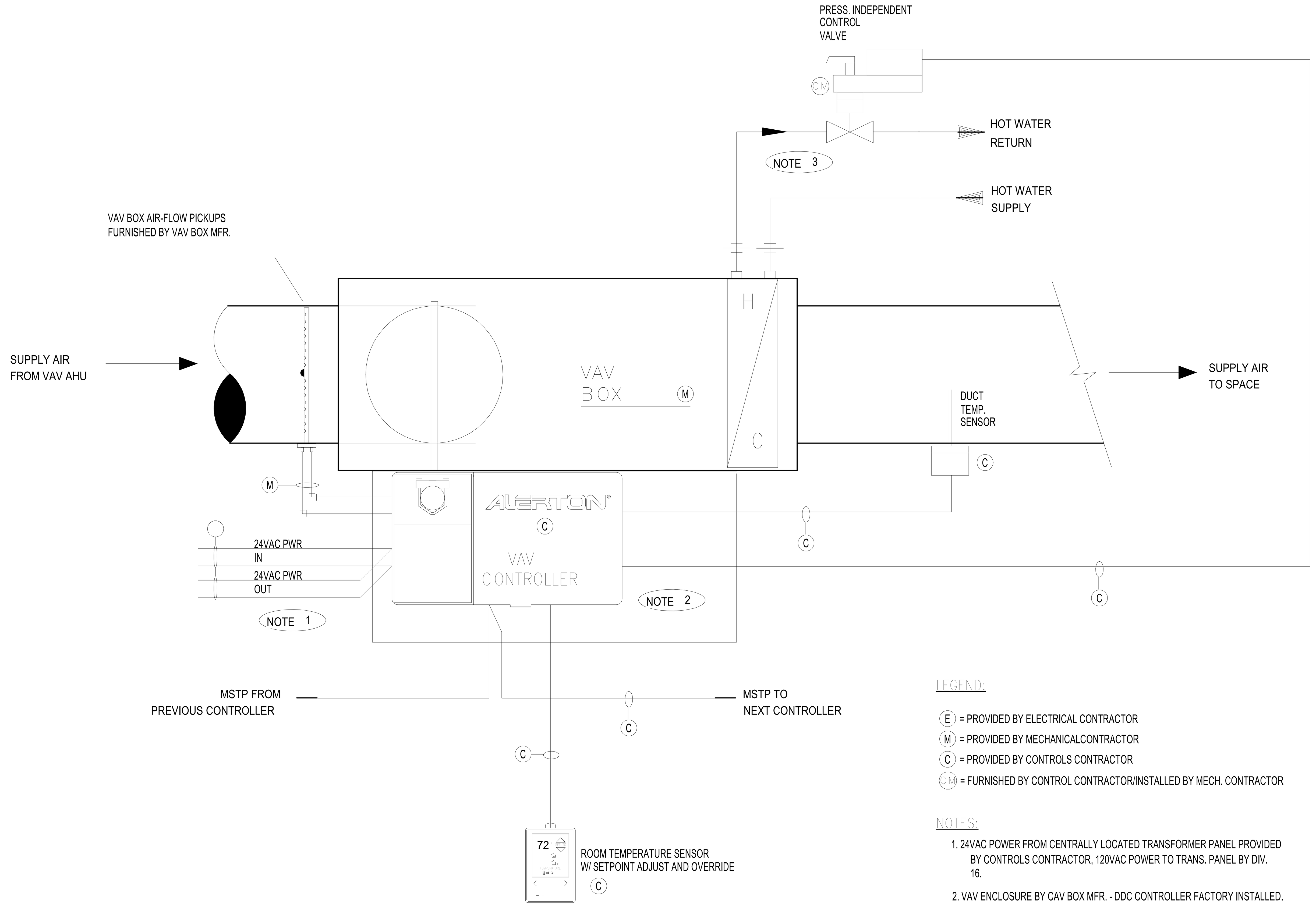
M5-1



LEGEND:

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(M) = PROVIDED BY MECHANICALCONTRACTOR
(C) = PROVIDED BY CONTROLS CONTRACTOR
(CM) = FURNISHED BY CONTROL CONTRACTOR/INSTALLED BY MECH. CONTRACTOR

NOTES:

1. 24VAC POWER FROM CENTRALLY LOCATED TRANSFORMER PANEL PROVIDED BY CONTROLS CONTRACTOR, 120VAC POWER TO TRANS. PANEL BY DIV. 16.
2. VAV ENCLOSURE BY CAV BOX MFR. - DDC CONTROLLER FACTORY INSTALLED.
3. PROVIDE 3-WAY CONTROL VALVE AT END OF EACH LOOP.

VAV BOX WITH REHEAT CONTROL DIAGRAM

VARIABLE AIR VOLUME BOX WITH HOT WATER REHEAT (TITLE 24 COMPLIANT)

SCHEDULED ZONE SPACE TEMPERATURE SETPOINT CONTROL:

THE DDC CONTROLS WILL MAINTAIN THE FOLLOWING (ADJ.) OCCUPIED ZONE TEMPERATURE SETPOINTS:
COOLING SETPOINT = 74°F
HEATING SETPOINT = 70°F

THE DDC CONTROLS WILL MAINTAIN THE FOLLOWING (ADJ.) UNOCCUPIED ZONE TEMPERATURE SETPOINTS:
COOLING SETPOINT = 85°F
HEATING SETPOINT = 55°F

ZONE SETPOINT ADJUST:
THE OCCUPANT SHALL BE ABLE TO ADJUST THE ZONE TEMPERATURE HEATING AND COOLING SETPOINTS AT THE SPACE TEMPERATURE SENSOR, +/- 2°F (ADJ.)

ZONE UNOCCUPIED OVERRIDE:
A TIMED LOCAL OVERRIDE CONTROL SHALL ALLOW AN OCCUPANT TO OVERRIDE THE SCHEDULE AND PLACE THE ZONE INTO AN OCCUPIED MODE FOR 30MINS/PULSE (MAX 1HR AND 30MINS, ADJ.). AT THE EXPIRATION OF THIS TIME, CONTROL OF THE ZONE SHALL AUTOMATICALLY RETURN TO THE SCHEDULE.

DUAL MAXIMUM AIRFLOW - HOT WATER REHEAT VALVE CONTROL:
1. WHEN THE ZONE IS IN THE COOLING MODE, THE COOLING LOOP OUTPUT IS MAPPED TO THE AIRFLOW SETPOINT FROM THE COOLING MAXIMUM TO THE MINIMUM AIRFLOW SETPOINTS. THE HOT WATER VALVE IS CLOSED.

2. WHEN THE ZONE IS IN THE DEADBAND MODE, THE AIRFLOW SETPOINT SHALL BE THE MINIMUM AIRFLOW SETPOINT. THE HOT WATER VALVE IS CLOSED.

3. WHEN THE ZONE IS IN THE HEATING MODE, THE HEATING LOOP SHALL MAINTAIN SPACE TEMPERATURE AT THE HEATING SETPOINT AS FOLLOWS:

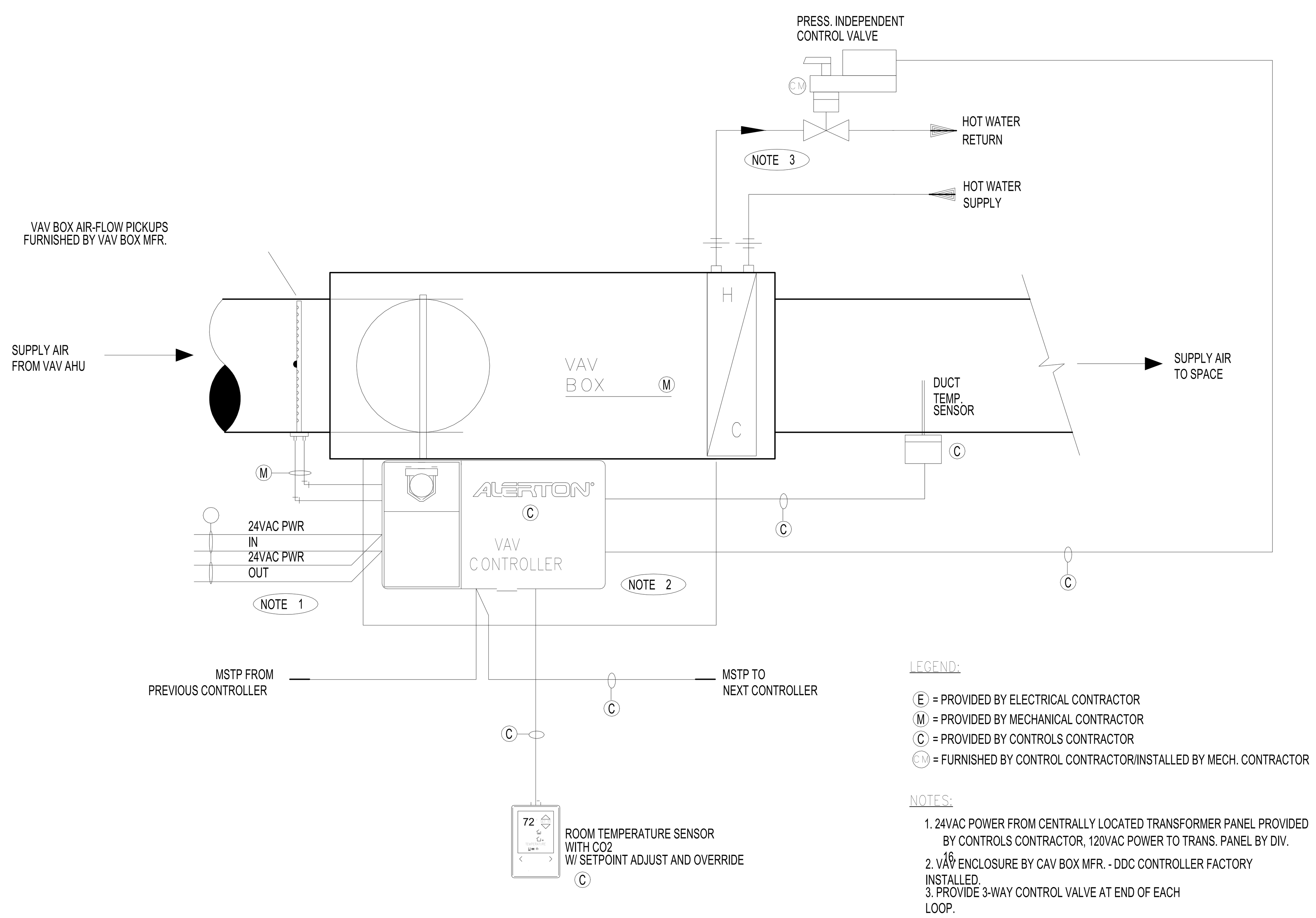
- FROM 0%-50% LOOP SIGNAL, THE HEATING LOOP OUTPUT SHALL RESET THE DISCHARGE TEMPERATURE FROM SUPPLY AIR TEMPERATURE SETPOINT (E.G.,55°F) TO 90°F. NOTE THE UPPER TEMPERATURE IS LIMITED TO PREVENT STRATIFICATION DURING HEATING.
- FROM 50%-100% LOOP SIGNAL, THE HEATING LOOP OUTPUT SHALL RESET THE ZONE AIRFLOW SETPOINT FROM THE MINIMUM AIRFLOW SETPOINT TO THE MAXIMUM HEATING AIRFLOW SETPOINT. THE SUPPLY AIR DISCHARGE TEMPERATURE REMAINS AT 90°F.

4. THE HOT WATER VALVE SHALL BE MODULATED USING A PI CONTROL LOOP TO MAINTAIN THE DISCHARGE TEMPERATURE AT SETPOINT. NOTE THAT DIRECTLY CONTROLLING THE HOT WATER VALVE FROM THE ZONE TEMPERATURE PI LOOP IS NOT ACCEPTABLE SINCE IT SHALL NOT ALLOW SUPPLY AIR TEMPERATURE TO BE UNDER
CONTROL AND LIMITED IN TEMPERATURE TO PREVENT STRATIFICATION.

5. THE VAV DAMPER SHALL BE MODULATED TO MAINTAIN THE MEASURED AIRFLOW AT SETPOINT.

DISCHARGE AIR TEMPERATURE:
THE CONTROLLER SHALL MONITOR THE DISCHARGE AIR TEMPERATURE.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
HIGH ZONE TEMP: IF THE ZONE TEMPERATURE IS GREATER THAN THE COOLING SETPOINT BY 4°F (ADJ.).
LOW ZONE TEMP: IF THE ZONE TEMPERATURE IS LESS THAN THE HEATING SETPOINT BY 4°F (ADJ.).



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(C) = PROVIDED BY CONTROLS CONTRACTOR
(CM) = FURNISHED BY CONTROL CONTRACTOR/INSTALLED BY MECH. CONTRACTOR

NOTES:

1. 24VAC POWER FROM CENTRALLY LOCATED TRANSFORMER PANEL PROVIDED BY CONTROLS CONTRACTOR, 120VAC POWER TO TRANS. PANEL BY DIV. 16.
2. VAV ENCLOSURE BY CAV BOX MFR. - DDC CONTROLLER FACTORY INSTALLED.
3. PROVIDE 3-WAY CONTROL VALVE AT END OF EACH LOOP.

VAV BOX WITH REHEAT & CO2 CONTROL DIAGRAM

VARIABLE AIR VOLUME BOX WITH HOT WATER REHEAT & CO2 CONTROL (TITLE 24 COMPLIANT)

SCHEDULED ZONE SPACE TEMPERATURE SETPOINT CONTROL:

THE DDC CONTROLS WILL MAINTAIN THE FOLLOWING (ADJ.) OCCUPIED ZONE TEMPERATURE SETPOINTS:
COOLING SETPOINT = 74°F
HEATING SETPOINT = 70°F
THE DDC CONTROLS WILL MAINTAIN THE FOLLOWING (ADJ.) UNOCCUPIED ZONE TEMPERATURE SETPOINTS:
COOLING SETPOINT = 85°F
HEATING SETPOINT = 55°F

ZONE SETPOINT ADJUST:
THE OCCUPANT SHALL BE ABLE TO ADJUST THE ZONE TEMPERATURE HEATING AND COOLING SETPOINTS AT THE SPACE TEMPERATURE SENSOR, +/- 2°F (ADJ.)

ZONE UNOCCUPIED OVERRIDE:
A TIMED LOCAL OVERRIDE CONTROL SHALL ALLOW AN OCCUPANT TO OVERRIDE THE SCHEDULE AND PLACE THE ZONE INTO AN OCCUPIED MODE FOR 30MINS/PULSE (MAX 1HR AND 30MINS, ADJ.). AT THE EXPIRATION OF THIS TIME, CONTROL OF THE ZONE SHALL AUTOMATICALLY RETURN TO THE SCHEDULE.

DUAL MAXIMUM AIRFLOW - HOT WATER REHEAT VALVE CONTROL:
1. WHEN THE ZONE IS IN THE COOLING MODE, THE COOLING LOOP OUTPUT IS MAPPED TO THE AIRFLOW SETPOINT FROM THE COOLING MAXIMUM TO THE MINIMUM AIRFLOW SETPOINTS. THE HOT WATER VALVE IS CLOSED.

2. WHEN THE ZONE IS IN THE DEADBAND MODE, THE AIRFLOW SETPOINT SHALL BE THE MINIMUM AIRFLOW SETPOINT. THE HOT WATER VALVE IS CLOSED.

3. WHEN THE ZONE IS IN THE HEATING MODE, THE HEATING LOOP SHALL MAINTAIN SPACE TEMPERATURE AT THE HEATING SETPOINT AS FOLLOWS:
- FROM 0%-50% LOOP SIGNAL, THE HEATING LOOP OUTPUT SHALL RESET THE DISCHARGE TEMPERATURE FROM SUPPLY AIR TEMPERATURE SETPOINT (E.G.,55°F) TO 95°F. NOTE THE UPPER TEMPERATURE IS LIMITED TO PREVENT STRATIFICATION DURING HEATING.
- FROM 50%-100% LOOP SIGNAL, THE HEATING LOOP OUTPUT SHALL RESET THE ZONE AIRFLOW SETPOINT FROM THE MINIMUM AIRFLOW SETPOINT TO THE MAXIMUM HEATING AIRFLOW SETPOINT. THE SUPPLY AIR DISCHARGE TEMPERATURE REMAINS AT 95°F.

4. THE HOT WATER VALVE SHALL BE MODULATED USING A PI CONTROL LOOP TO MAINTAIN THE DISCHARGE TEMPERATURE AT SETPOINT. NOTE THAT DIRECTLY CONTROLLING THE HOT WATER VALVE FROM THE ZONE TEMPERATURE PI LOOP IS NOT ACCEPTABLE SINCE IT SHALL NOT ALLOW SUPPLY AIR TEMPERATURE TO BE UNDER
CONTROL AND LIMITED IN TEMPERATURE TO PREVENT STRATIFICATION.

5. THE VAV DAMPER SHALL BE MODULATED TO MAINTAIN THE MEASURED AIRFLOW AT SETPOINT.

THE CONTROLLER SHALL MONITOR THE DISCHARGE AIR TEMPERATURE.

6. CO2 CONTROL - SPACE CO2 WILL BE MONITORED CONTINUOUSLY DURING OCCUPIED HOURS. UPON A RISE IN SPACE CO2 LEVEL ABOVE THE (ADJ) CO2 SETPOINT OF 1000 PPM, THE VAV BOX CONTROLLER SHALL MODULATE THE VAV BOX DAMPER OPEN TO INCREASE AIR-FLOW TO THE SPACE. IF VAV BOX CO2 MAXIMUM AIR FLOW (ADJ) IS REACHED AND SPACE CO2 LEVELS ARE STILL ABOVE SETPOINT THE CONTROLLER SHALL SEND A SIGNAL TO THE UPSTREAM VAV AIR HANDLER CONTROLLER TO MODULATE THE OUTSIDE AIR DAMPER OPEN.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
HIGH ZONE TEMP: IF THE ZONE TEMPERATURE IS GREATER THAN THE COOLING SETPOINT BY 4°F (ADJ.).
LOW ZONE TEMP: IF THE ZONE TEMPERATURE IS LESS THAN THE HEATING SETPOINT BY 4°F (ADJ.).

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COMPTON COMMUNITY COLLEGE DISTRICT
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CONTROLS

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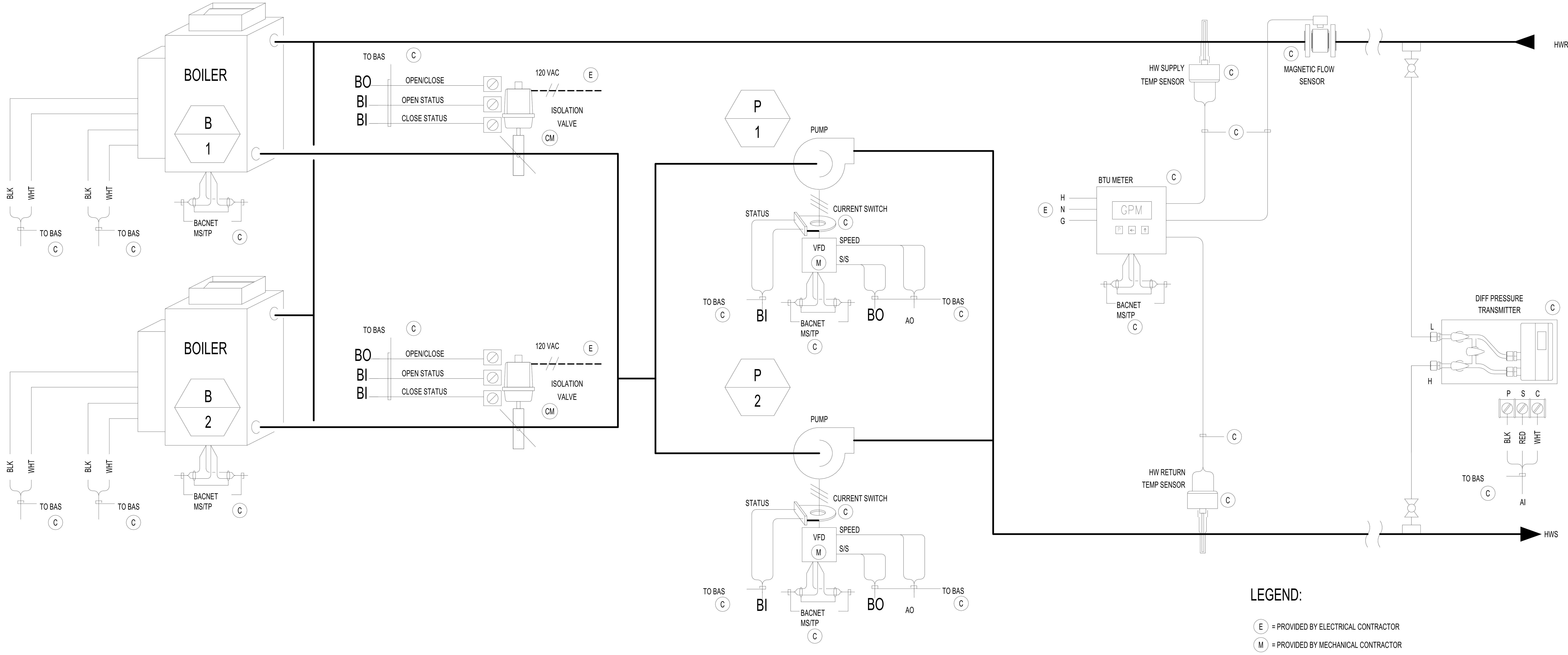

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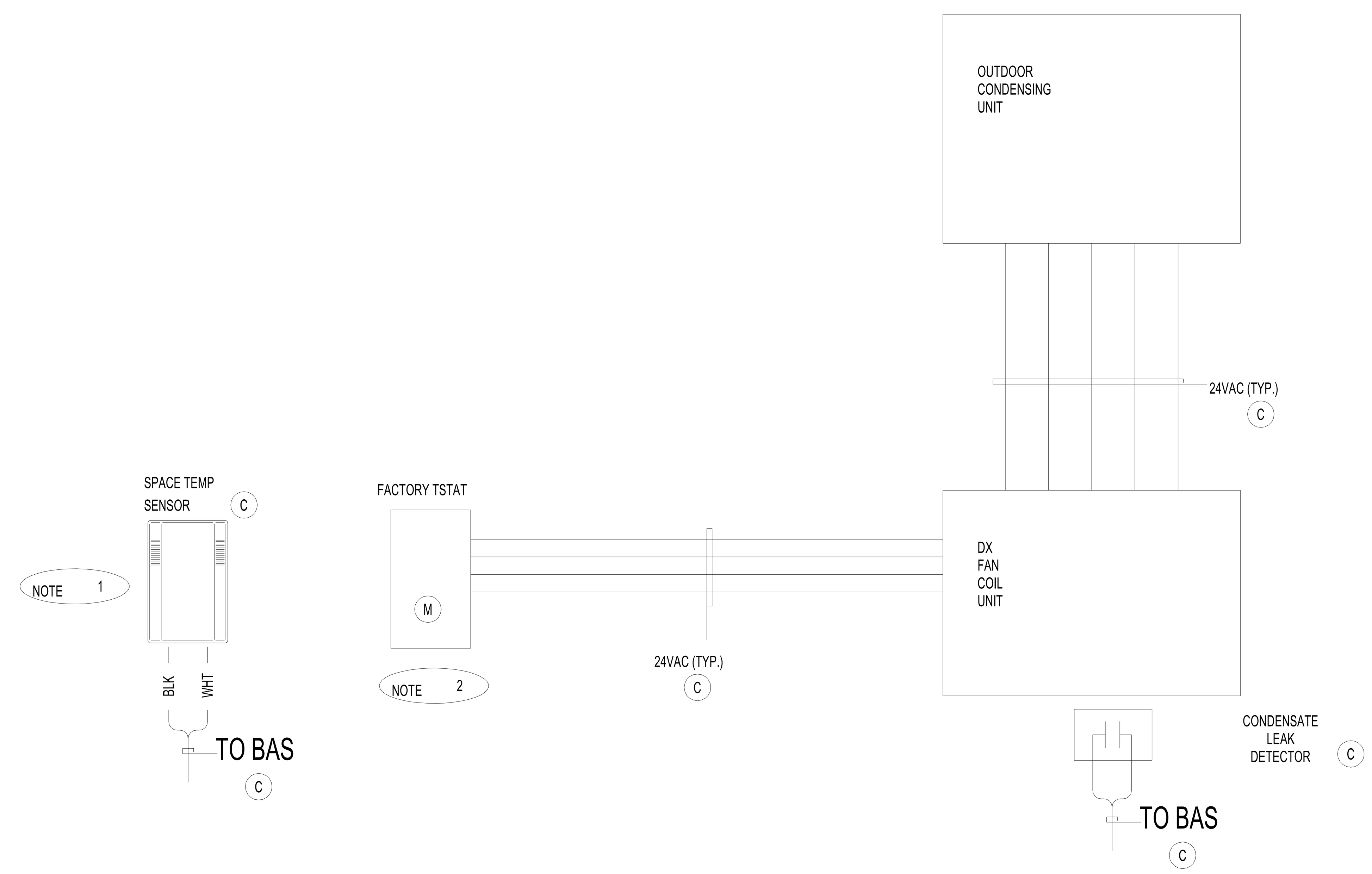
LOW VOLTAGE DC WIRING

LINE VOLTAGE AC WIRING

BOILER SYSTEM FLOW DIAGRAM



NOTES:

1. SPACE TEMP SENSOR TO BE CONNECTED TO DDC CONTROLLER. ALARM ON HIGH TEMPERATURE.
2. SPACE THERMOSTAT FURNISHED BY UNIT MANUFACTURER.

LEGEND:

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LOW VOLTAGE AC WIRING

IT ROOM SPLIT DX FAN COIL CONTROL & MONITORING DIAGRAM

(TYPICAL)

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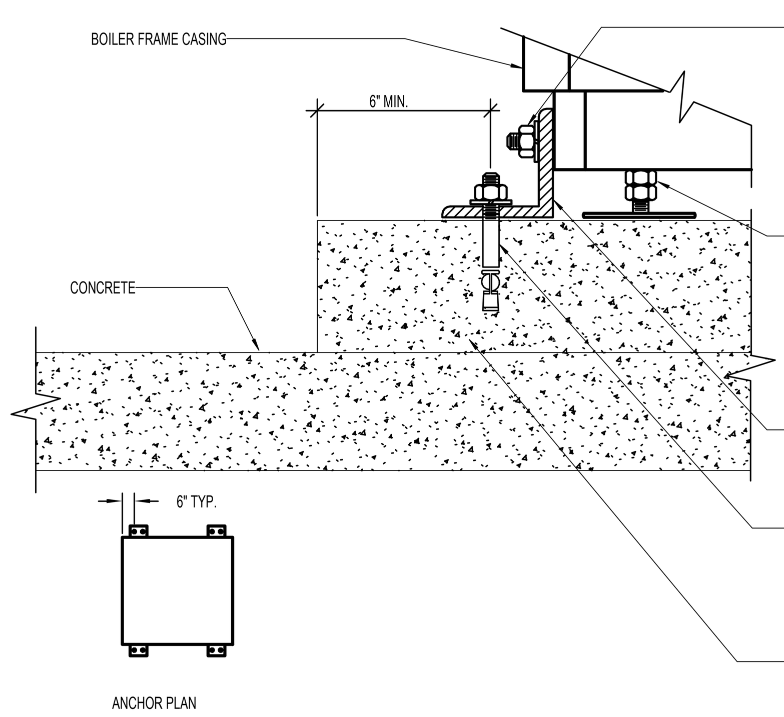
drawing no.:
M5-3

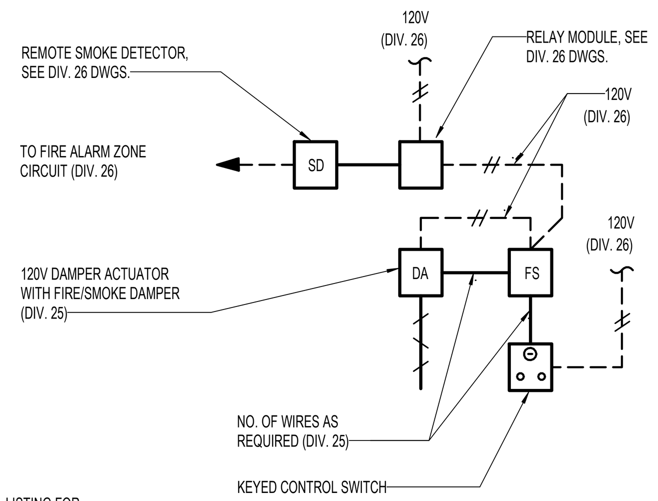


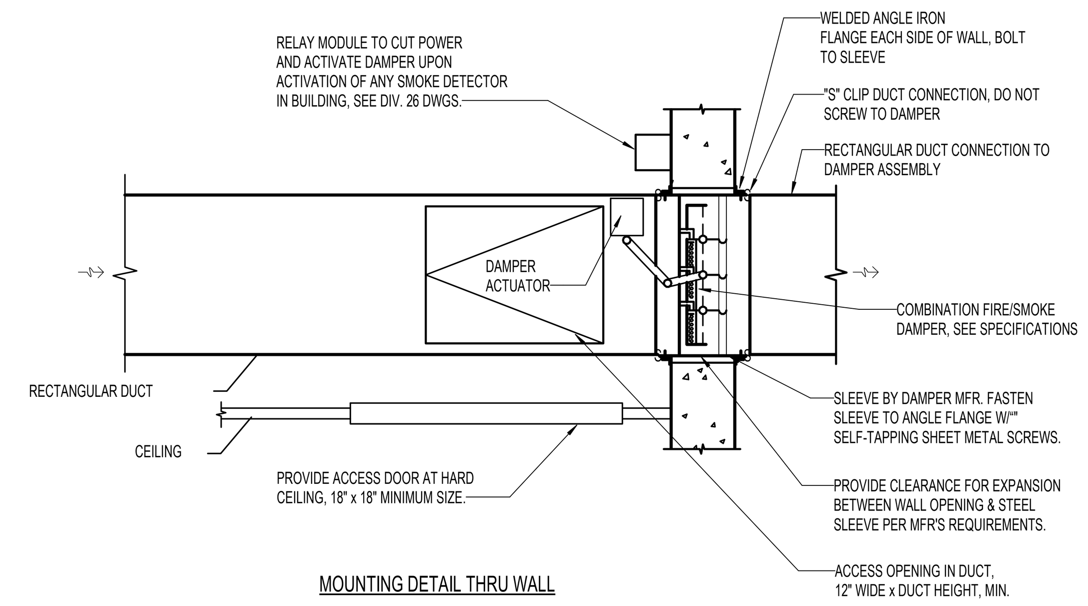
9 | M7-1
BOILER MOUNTING
SCALE: 1" = 1'-0"

FIRE DAMPERS SHALL BE STATE FIRE MARSHAL APPROVED AND INSTALLED STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. MANUFACTURER'S INSTRUCTIONS SHALL BE MADE AVAILABLE TO THE INSPECTING AUTHORITY. DETAILS SHOWN ARE FOR REFERENCE ONLY.

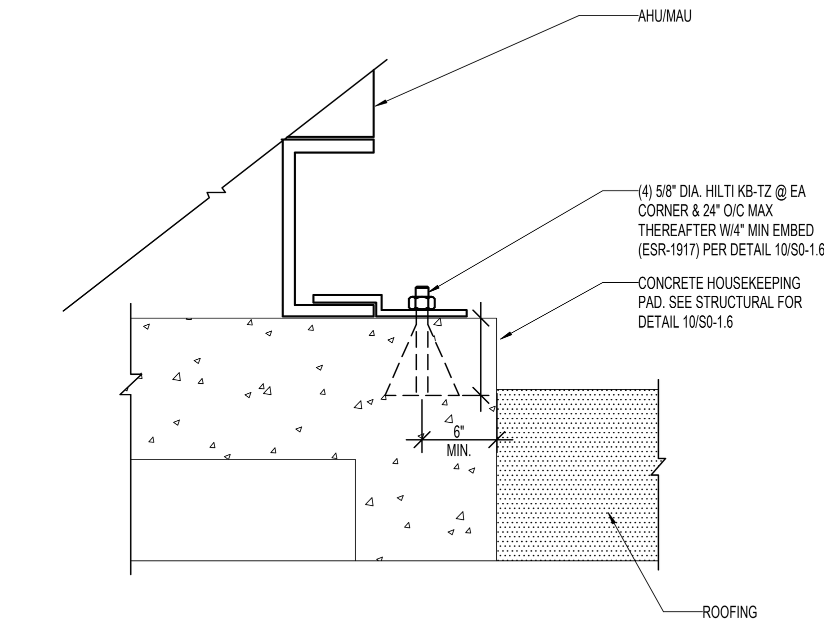
NOTES :

1. INSTALLATION SHALL BE PER THE DAMPER MANUFACTURER'S U.L. LISTING FOR DAMPER IN THE PLANE OF THE WALL AND ACTUATOR OUTSIDE OF THE DUCT. MANUFACTURER SHALL PROVIDE ALL COMPONENTS NECESSARY TO INSTALL THE DAMPERS PER THIS REQUIREMENT.
2. WIRE TO CLOSE DAMPER UPON SENSING OF SMOKE IN AIR STREAM. FOR WIRING DIAGRAM SEE ABOVE. PROVIDE ALL WIRING, CONDUIT, RELAYS, ETC. REQUIRED TO RENDER SYSTEM COMPLETE.
3. PROVIDE UNIT RELAY LISTED FOR USE WITH SMOKE DETECTORS TO CUT POWER TO UNIT CONTROLS TO SHUTDOWN FAN OPERATION WHEN FIRE/SMOKE DAMPER DETECTOR IN DUCT SERVED BY AC IS ENERGIZED, FAN SHUTDOWN SHALL BE PER 2016 CMC 606.8.

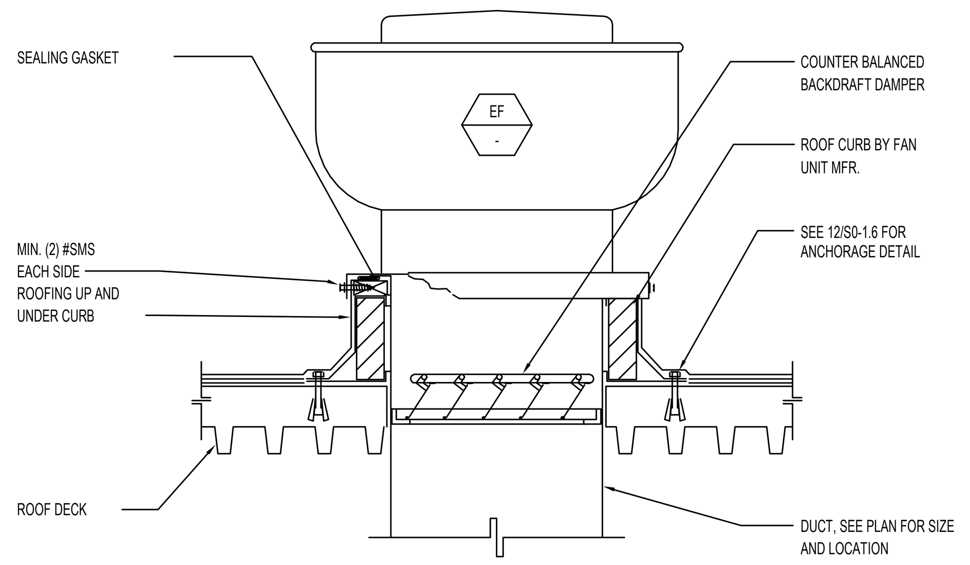




5 | M7-1
COMBINATION FIRE/SMOKE DAMPER DETAIL
SCALE: NONE



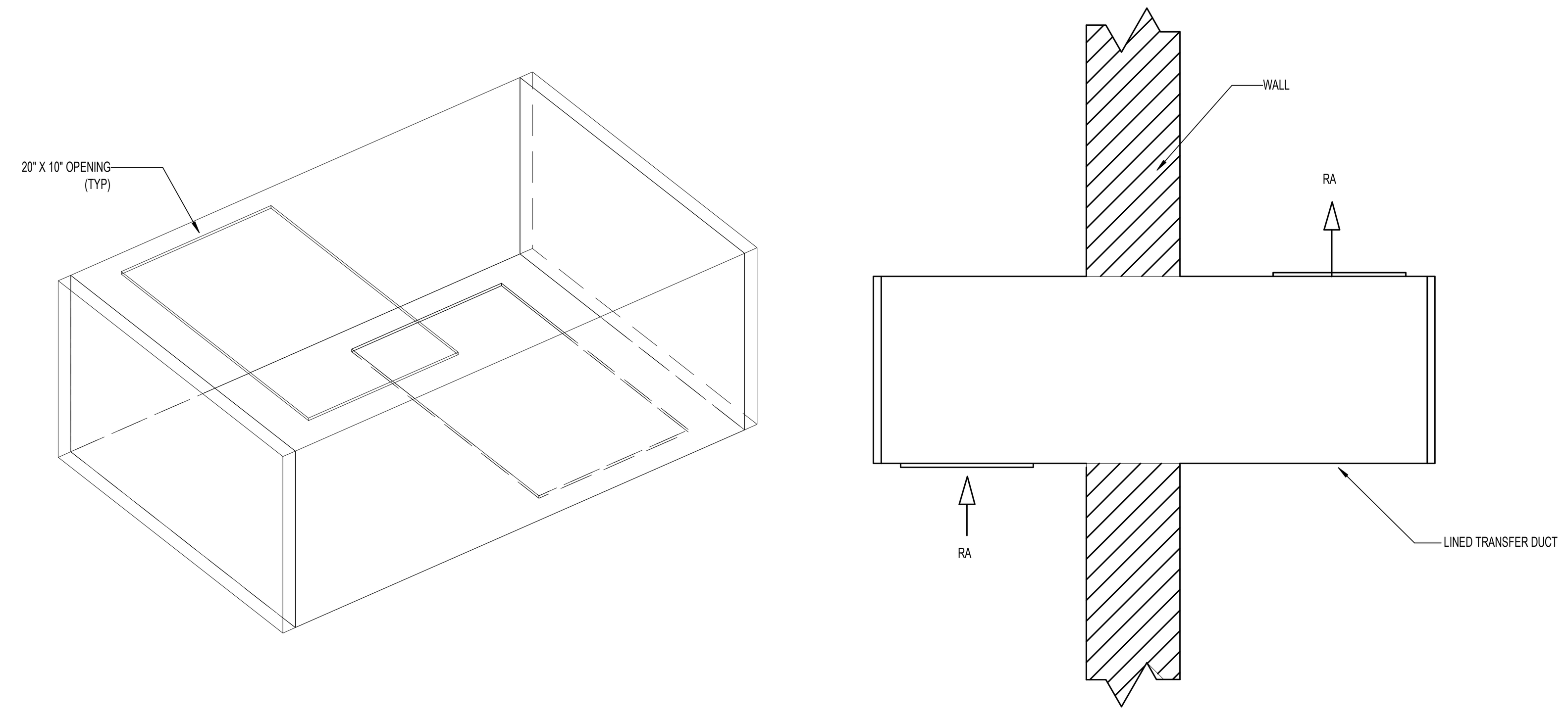
1 | M7-1
AHU MOUNTING DETAIL
SCALE: NONE



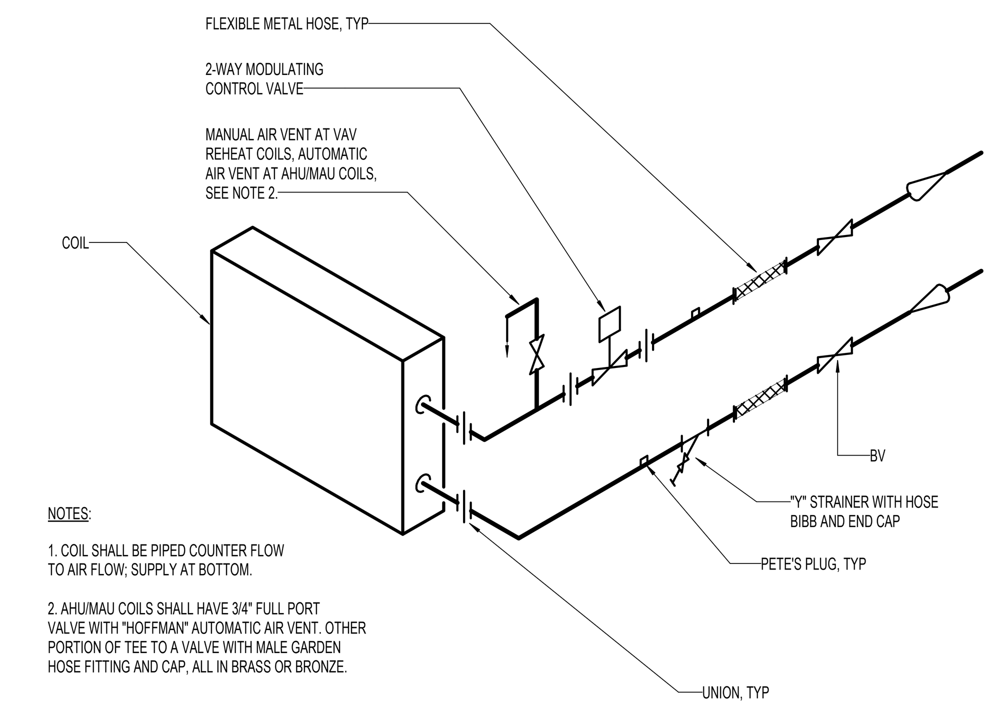
11 | M7-1
EXHAUST FANS MOUNTING
SCALE: NONE

TRANSFER DUCT SCHEDULE

NAME	CFM	SIZE
TD-1	1200	20X20
TD-2	1000	18X18
TD-3	800	16X16
TD-4	600	14X14
TD-5	400	12X12
TD-6	200	8X8



6 | M7-1
TRANSFER DUCT DETAIL
SCALE: NTS



NOTES:

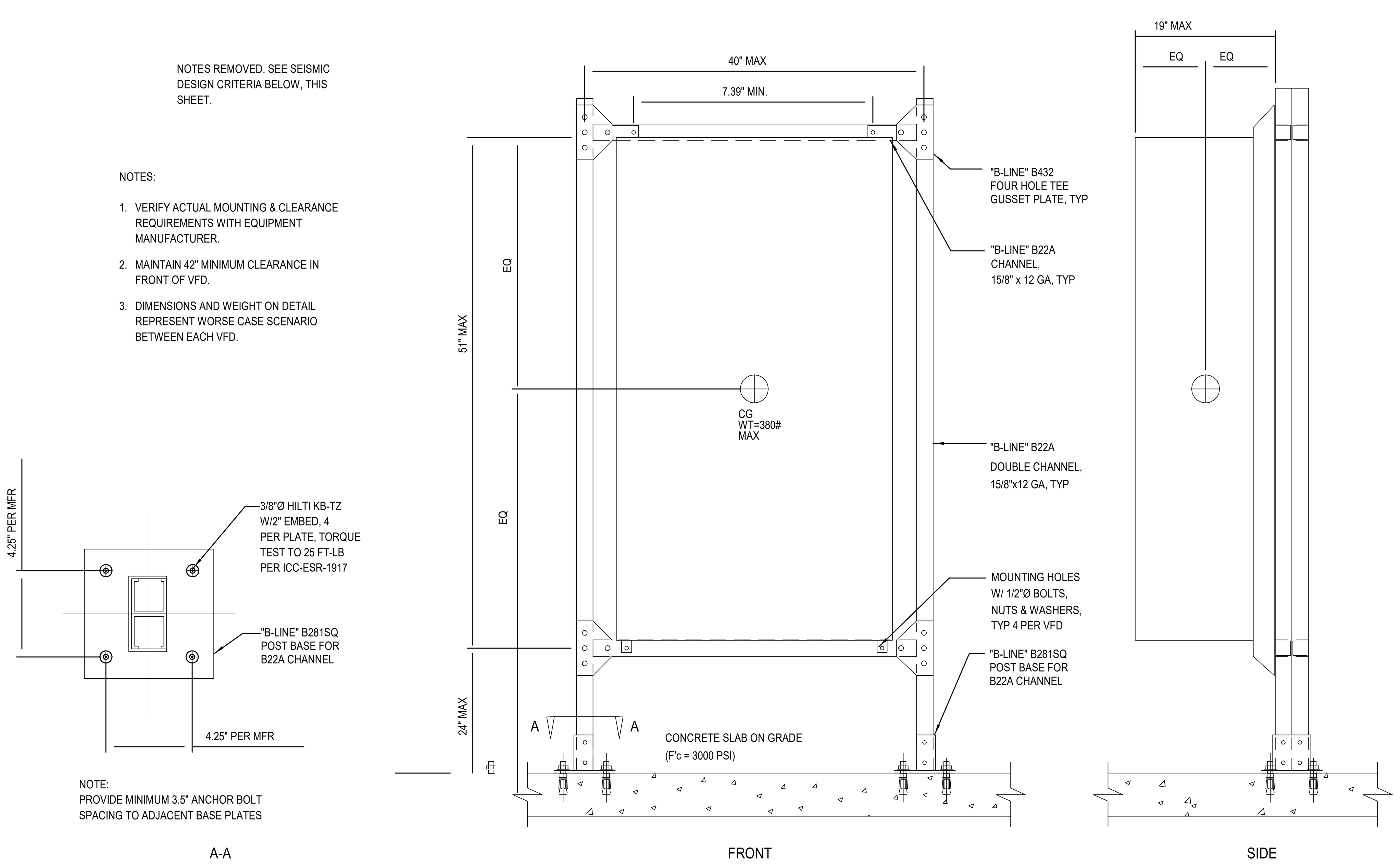
1. COIL SHALL BE PIPED COUNTER FLOW TO AIR FLOW; SUPPLY AT BOTTOM.
2. AHU/MAU COILS SHALL HAVE 3/4" FULL PORT VALVE WITH "HOFFMAN" AUTOMATIC AIR VENT. OTHER PORTION OF TEE TO A VALVE WITH MALE GARDEN HOSE FITTING AND CAP, ALL IN BRASS OR BRONZE.

2 | M7-1
CHW & HHW COIL PIPING DETAIL (2-WAY)
SCALE: NONE

NOTES REMOVED. SEE SEISMIC DESIGN CRITERIA BELOW, THIS SHEET.

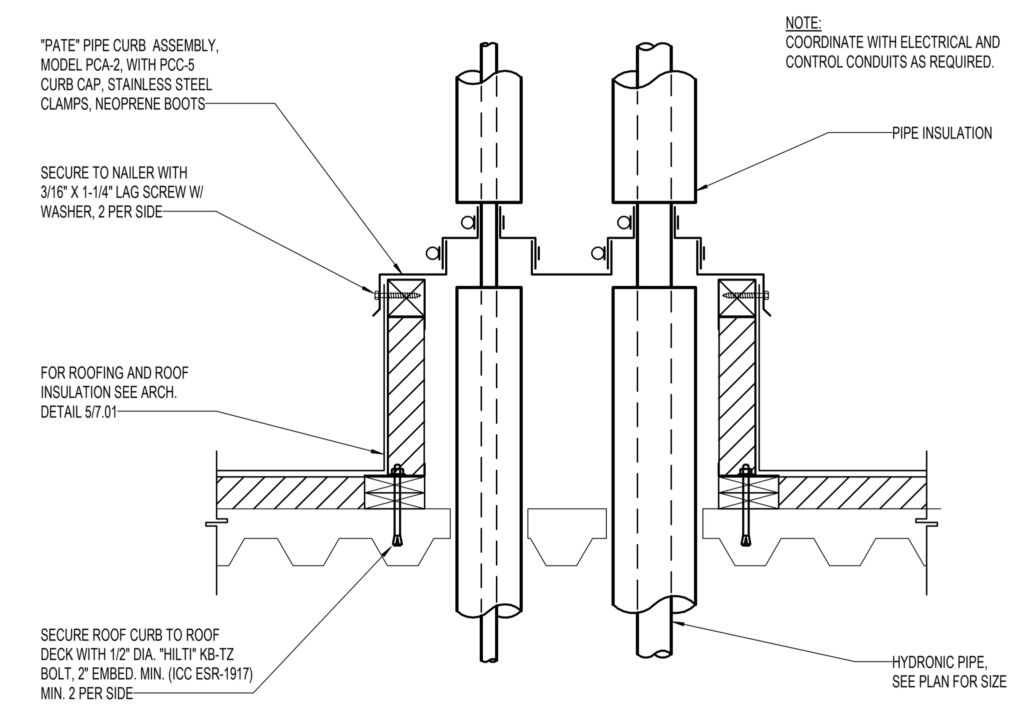
NOTES:

1. VERIFY ACTUAL MOUNTING & CLEARANCE REQUIREMENTS WITH EQUIPMENT MANUFACTURER.
2. MAINTAIN 42" MINIMUM CLEARANCE IN FRONT OF VFD.
3. DIMENSIONS AND WEIGHT ON DETAIL REPRESENT WORSE CASE SCENARIO BETWEEN EACH VFD.

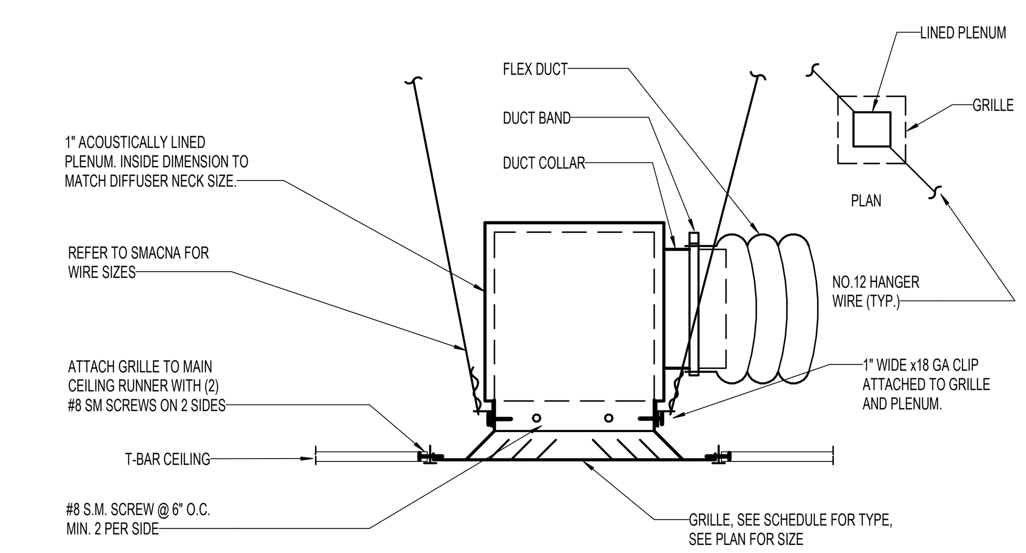


NOTE:
PROVIDE MINIMUM 3.5" ANCHOR BOLT SPACING TO ADJACENT BASE PLATES

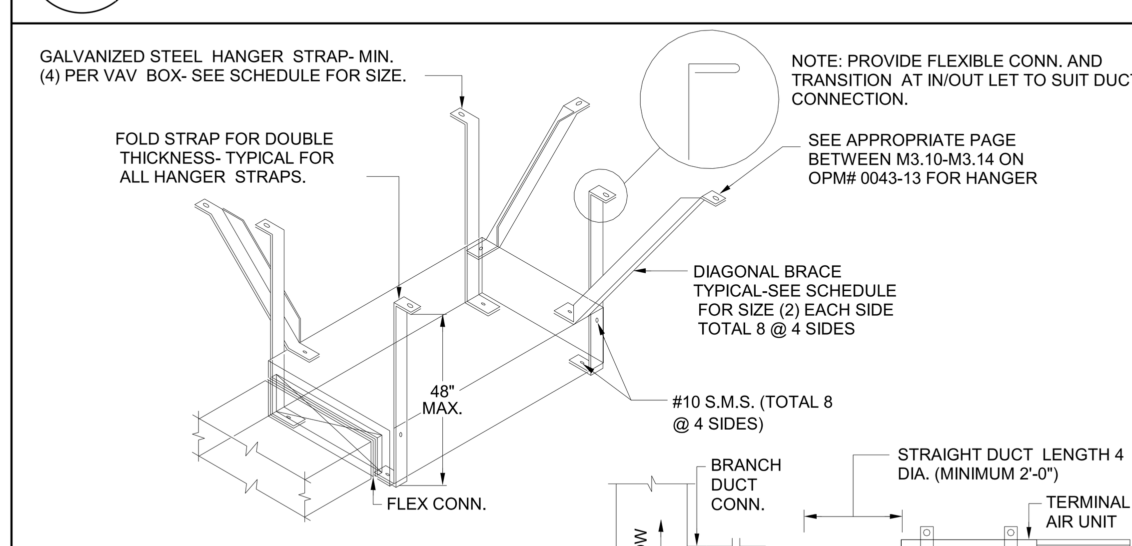
10 | M7-1
SINGLE VFD MNTG
SCALE: 12" = 1'-0"

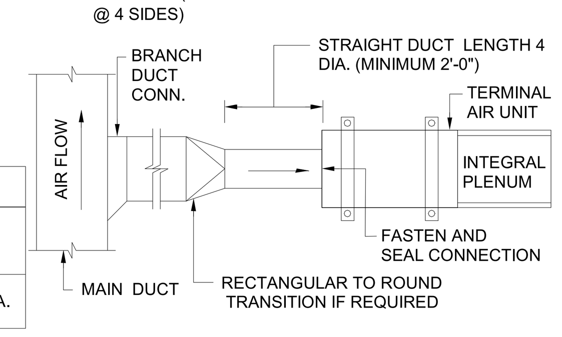


7 | M7-1
PIPE THRU ROOF
SCALE: 1" = 1'-0"



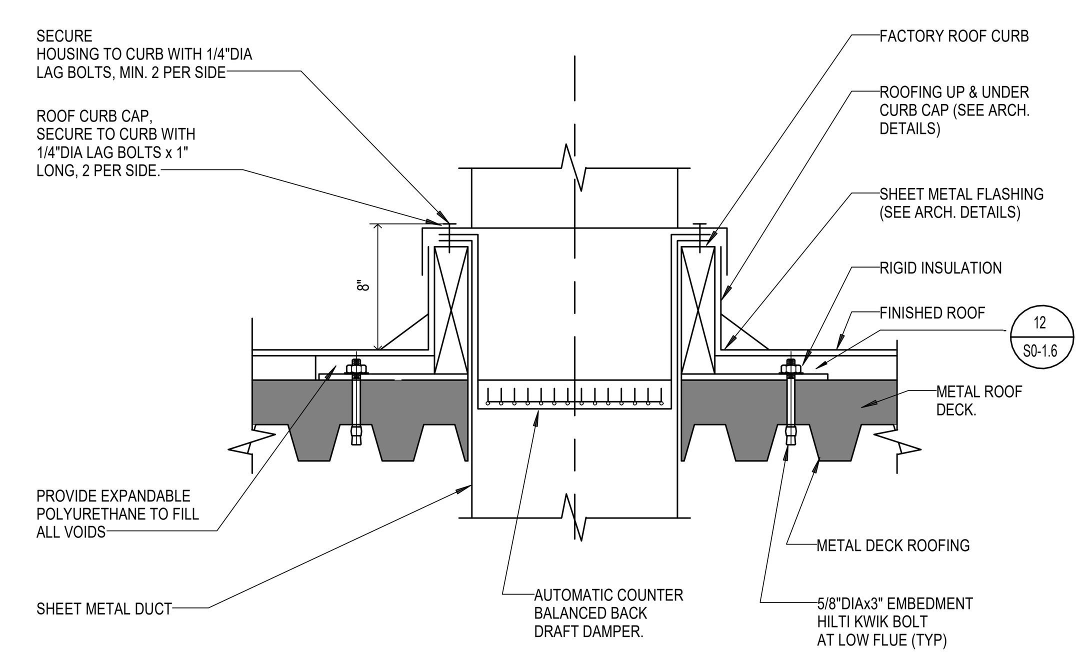
3 | M7-1
LAY-IN DIFFUSER/GRILLE MOUNTING
SCALE: NONE





HANGER AND BRACE SCHEDULE			
MIXING BOX WEIGHT (LBS)	MAX. LOAD EACH HANGER	HANGER STRAP SIZE	DIAGONAL BRACE SIZE
UP TO 100	72#/HANGER	1 1/2"x 18 GA.	1 1/2"x1 1/2"x18 GA.

8 | M7-1
TERMINAL UNIT MOUNTING DETAIL
SCALE: NTS



4 | M7-1
DUCT THROUGH ROOF
SCALE: NONE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-119686 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 10/14/2019

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CAPITAL ENGINEERING CONSULTANTS, INC.
LONG BEACH, CALIFORNIA
RH - TS/SL/DV 170822.00
PM - DESIGN TEAM PROJECT NO.

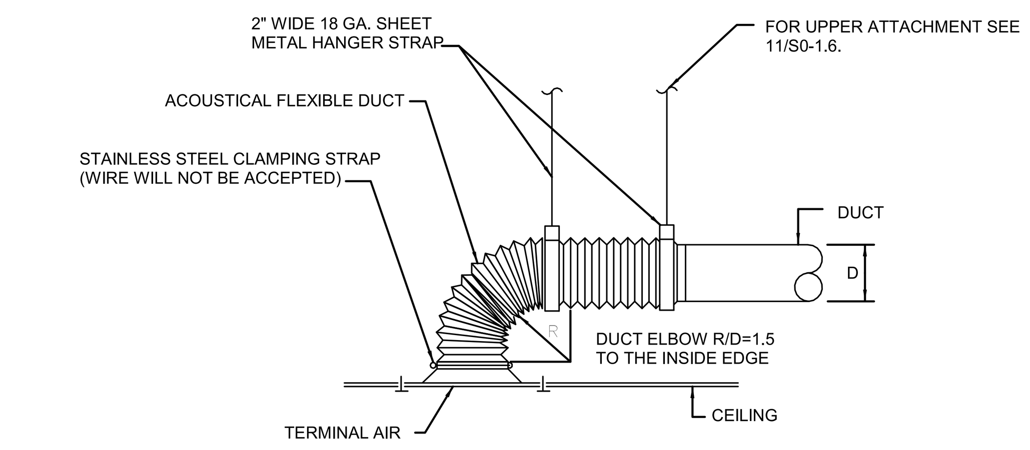
REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER V. MENCKO
M 34011
EXPIRES 3/31/20
MECHANICAL
STATE OF CALIFORNIA
DATE SIGNED: 08/16/19
consultant

COMPTON COLLEGE STUDENT SERVICES BLDG.
COMPTON COMMUNITY COLLEGE DISTRICT
1111 E. ARTESIA BLVD.
COMPTON, CA 90221
owner

tBP project number: 20987.00
file name: CECI_COMPTON CC STUDENT SERVICES_MP18_CENTRAL.RVT
drawn by: CECI checked by: CM
date: 9.03.2019
rev: date: description:

drawing title:
DETAILS

drawing no.:
M7-1

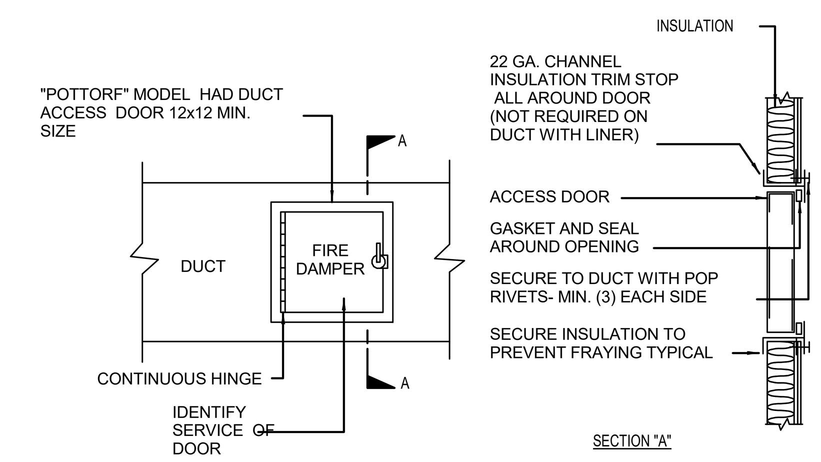


NOTES:

1. FLEXIBLE DUCT FOR DIFFUSER/GRILLE CONNECTION SHOWN. SIMILAR FOR TERMINAL UNIT CONNECTION.
2. FLEXIBLE DUCT SHALL NOT BE USE TO SERVE EXHAUST AIR SYSTEM. PROVIDE AND INSTALL RIGID DUCT MATERIAL.
3. FLEXIBLE DUCT MAX. LENGTH OF 5FT. & MAX. BEND OF ONE (1) 90 AIR DUCTS ONLY. HARD CONNECTION FOR RETURN & EXHAUST AIR DUCTS.

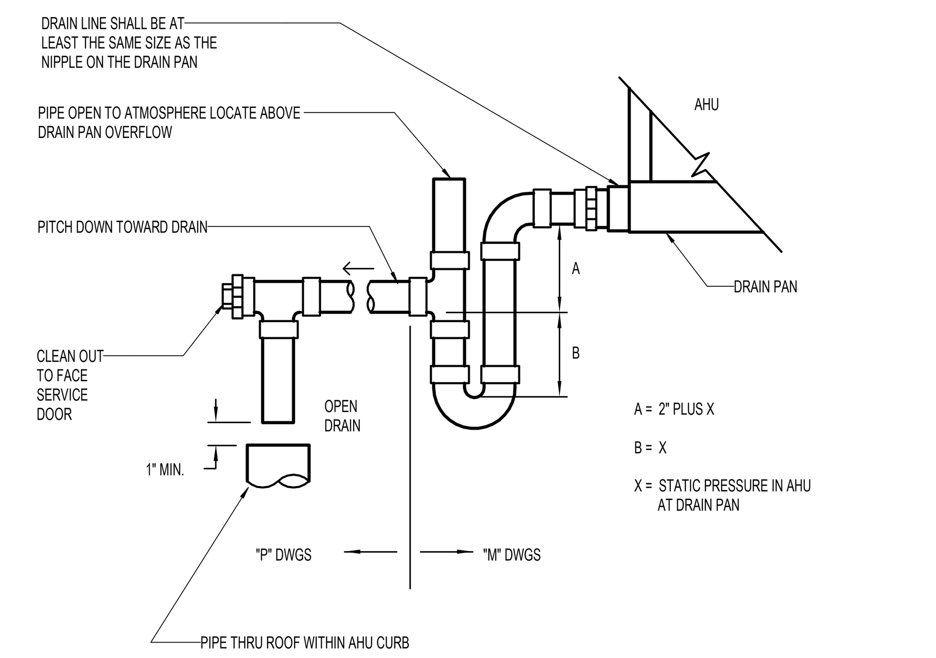
8 M7-2 FLEXIBLE DUCT AND SUPPORT DETAIL

SCALE: NONE



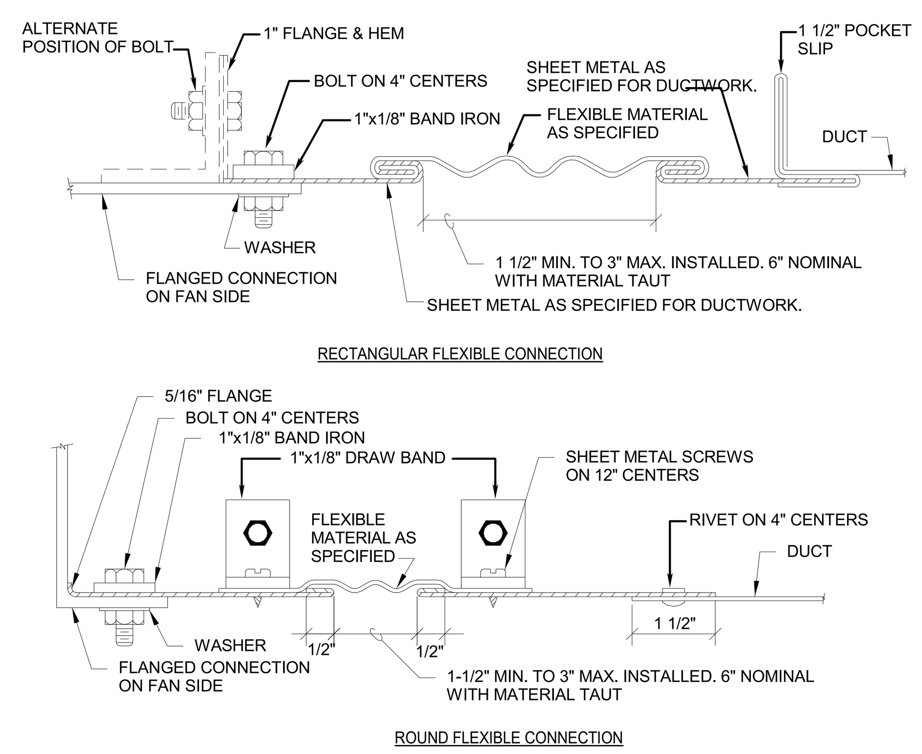
5 M7-2 DUCT ACCESS DOOR DETAIL

SCALE: NONE



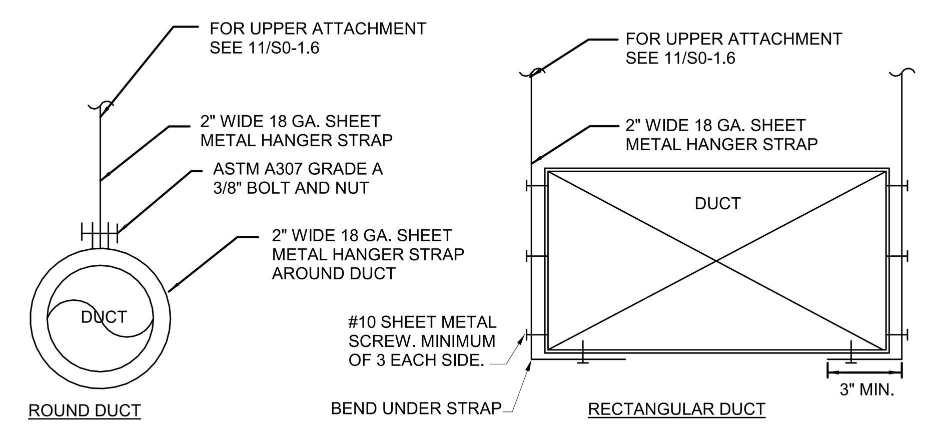
1 M7-2 CONDENSATE DRAIN CONNECTION

SCALE: NONE



9 M7-2 FLEXIBLE DUCT CONNECTION DETAIL

SCALE: NONE

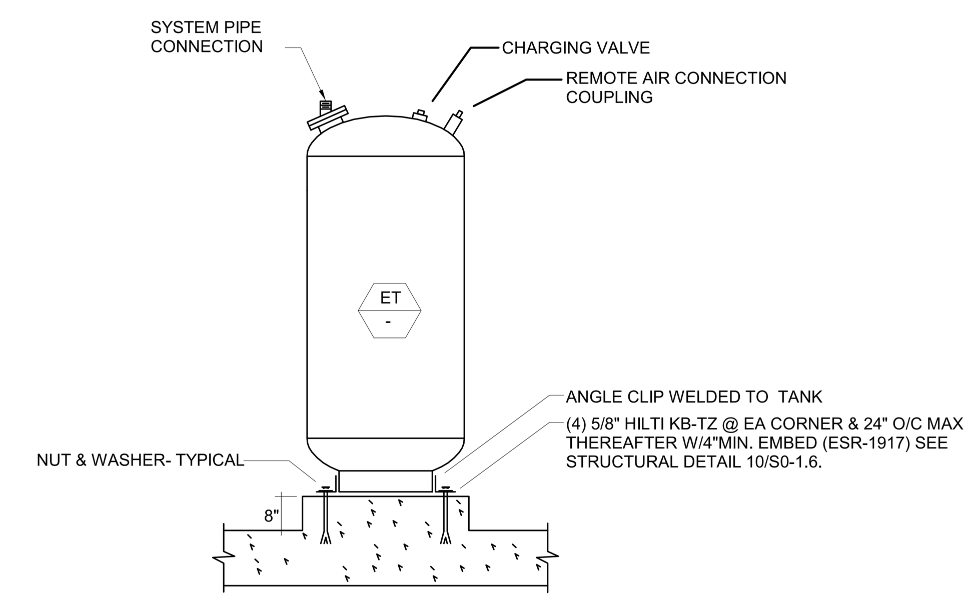


NOTE:
1. APPLICABLE FOR DUCTWORK LESS THAN 6 SQ.FT.

RETANGULAR DUCT			ROUND DUCT		
MAX. OF DUCT PERIMETER (INCH)	STRAP	MAX. LOAD EACH HANGER (LBS.)	DIAMETER (INCHES)	STRAP	MAX. LOAD EACH HANGER (LBS.)
P/2 =72	2"X 18 GA.	20	UP TO 20"	1"X 20 GA.	20
P/2 =96	2"X 16 GA.	30	21" TO 36"	1"X 18 GA.	30

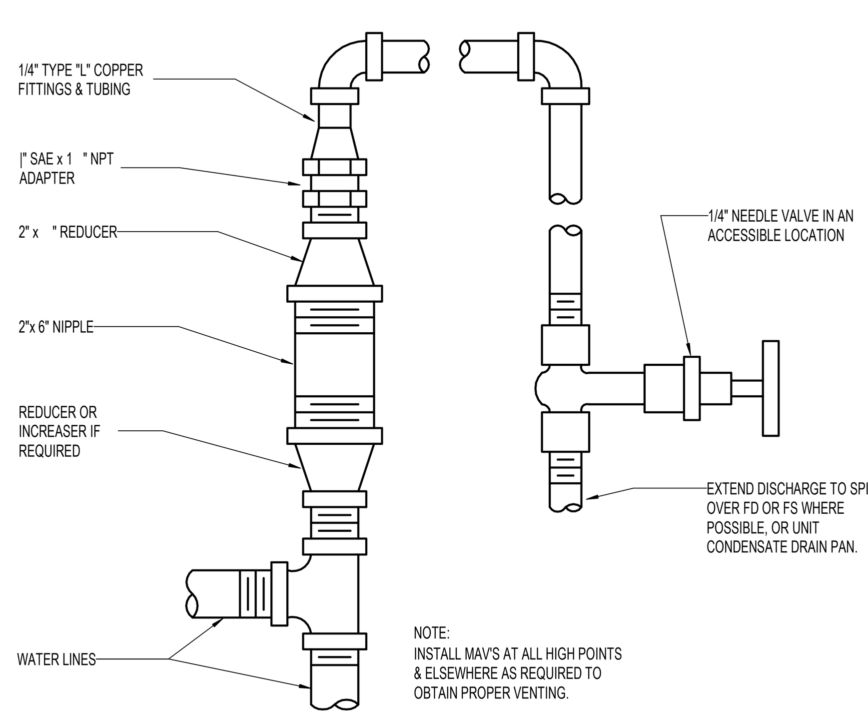
6 M7-2 DUCT HANGER AND SUPPORT DETAIL

SCALE: NONE



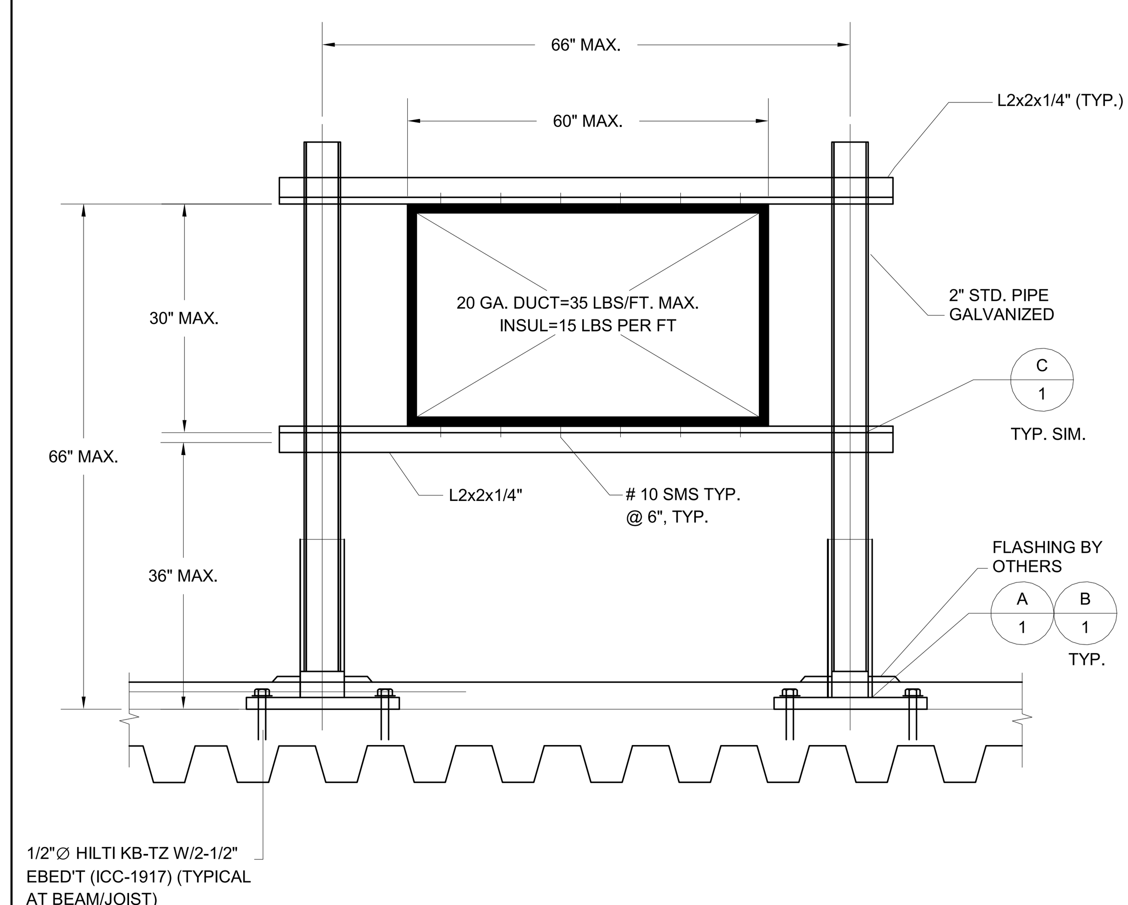
2 M7-2 EXPANSION TANK MOUNTING DETAIL

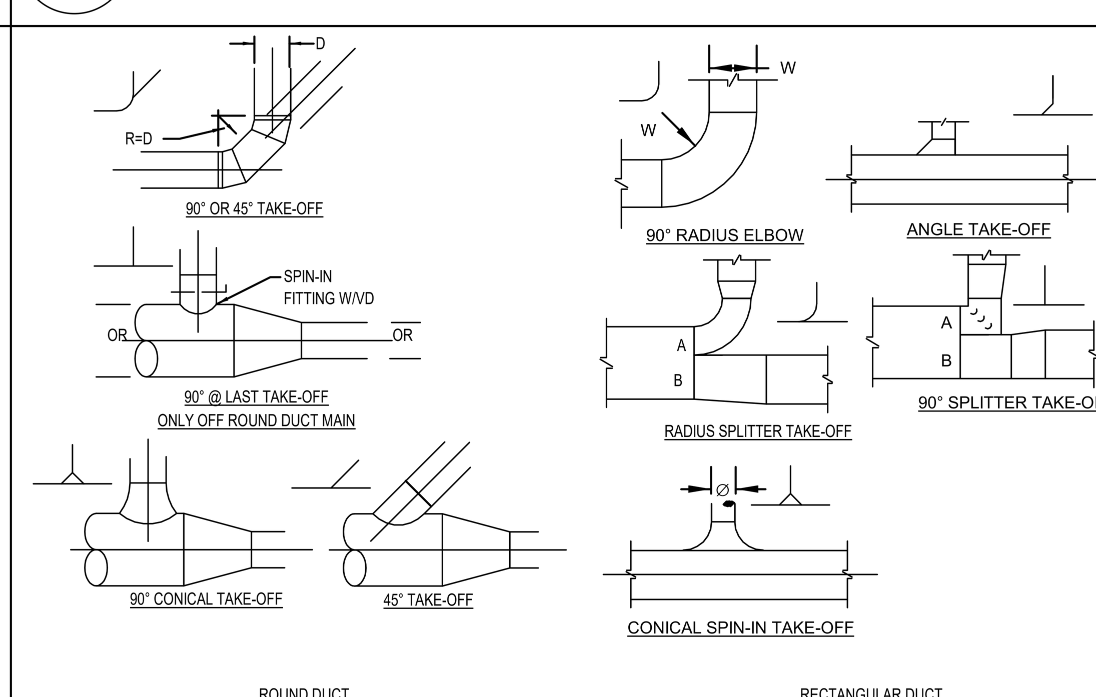
SCALE: NONE



10 M7-2 AIR VENT DETAIL

SCALE: NONE



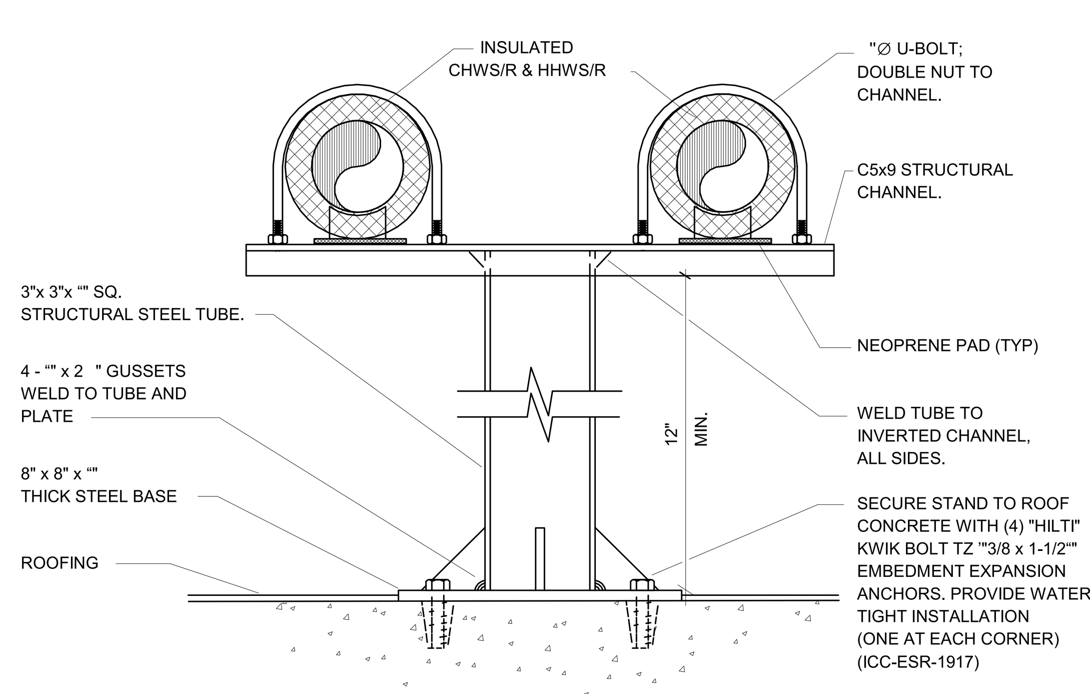


NOTES:

1. SINGLE-LINE ILLUSTRATIONS ARE SYMBOLS USED ON DRAWINGS.
2. SIZE A & B DIMENSIONS IN PROPORTION TO AIR QUANTITIES IN EACH LEGS OF SPLIT UNLESS OTHERWISE NOTED.

3 M7-2 BRANCH DUCT DETAIL

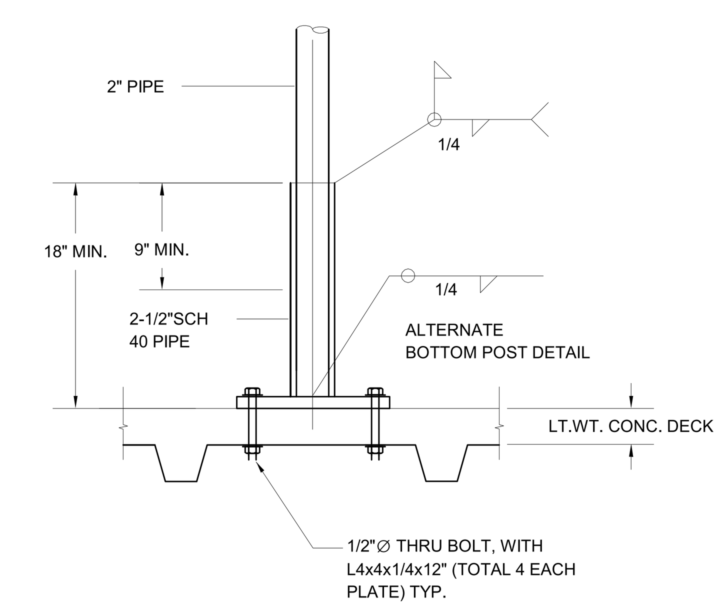
SCALE: NONE



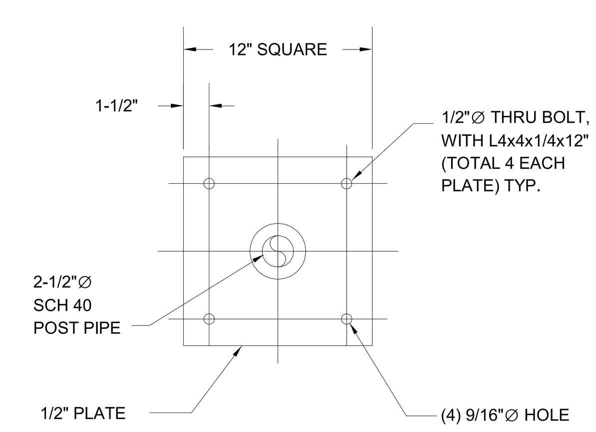
11 M7-2 MECHANICAL PIPE ON ROOF SUPPORT

SCALE: NONE

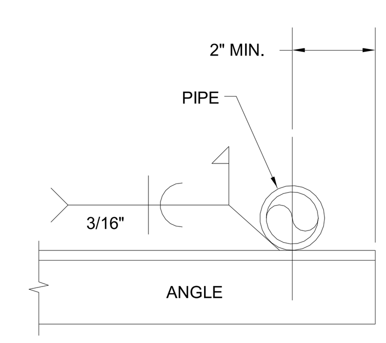
NOTE:
1. MAX. WEIGHT PER SUPPORT FRAME = 400 LBS.
2. 8' ON CENTER MAX. SUPPORT FRAME SPACING



DETAIL A : POST BOTTOM DETAIL



DETAIL B: BASE PLATE



DETAIL C: WELDING DETAIL

7 M7-2 DUCT SUPPORT ON ROOF DETAIL

SCALE: NONE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
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DATE: 10/14/2019

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WELLS FARGO CENTER - SOUTH TOWER
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architect

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consultant

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drawn by: CECI checked by: CM

date: 9.03.2019

rev:	date:	description:

drawing title:
DETAILS

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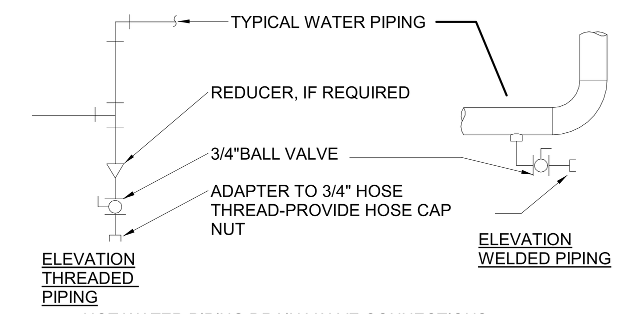
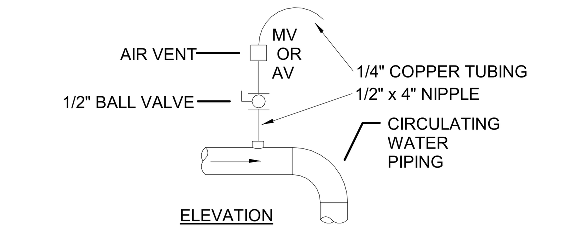
M7-2



HOT WATER PIPING DRAIN VALVE CONNECTIONS

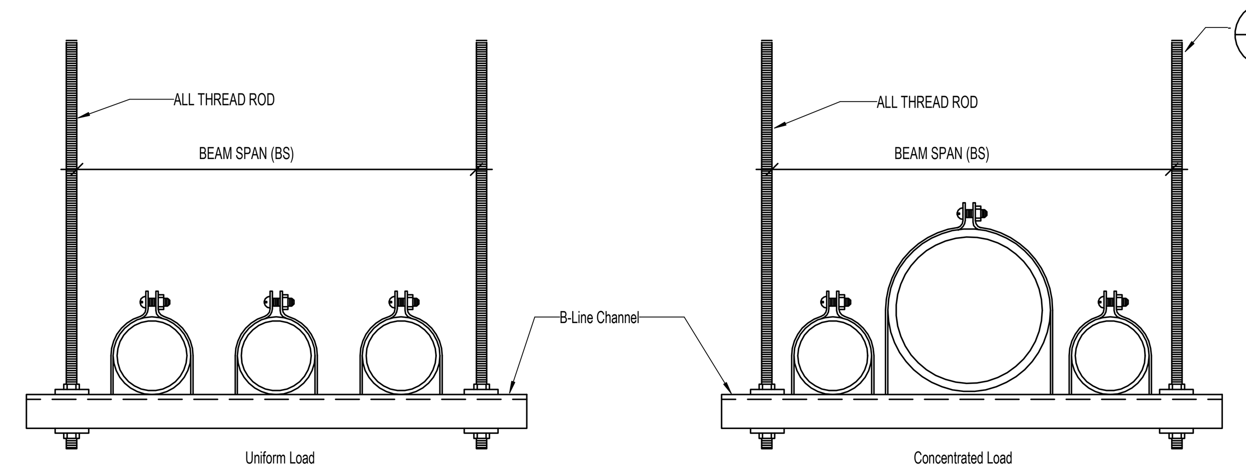
NOTES:
1. DRAIN ALL LOW POINTS AS INDICATED ABOVE.
2. WHERE SCALE POCKETS ARE SHOWN ON PIPE RISER DIAGRAMS AND/OR PLANS LOCATE DRAIN AT BOTTOM OF SCALE POCKET.



TYPICAL MANUAL AIR VENT

NOTES:
1. VENT ALL HIGH POINTS INDICATED ABOVE.
2. IF AUTOMATIC AIR VENTS ARE USED, PIPE DISCHARGE TO DRAIN.

1 M7-3 DRAIN VALVE AND AIR VENT CONNECTON DETAIL
SCALE: 12" = 1'-0"

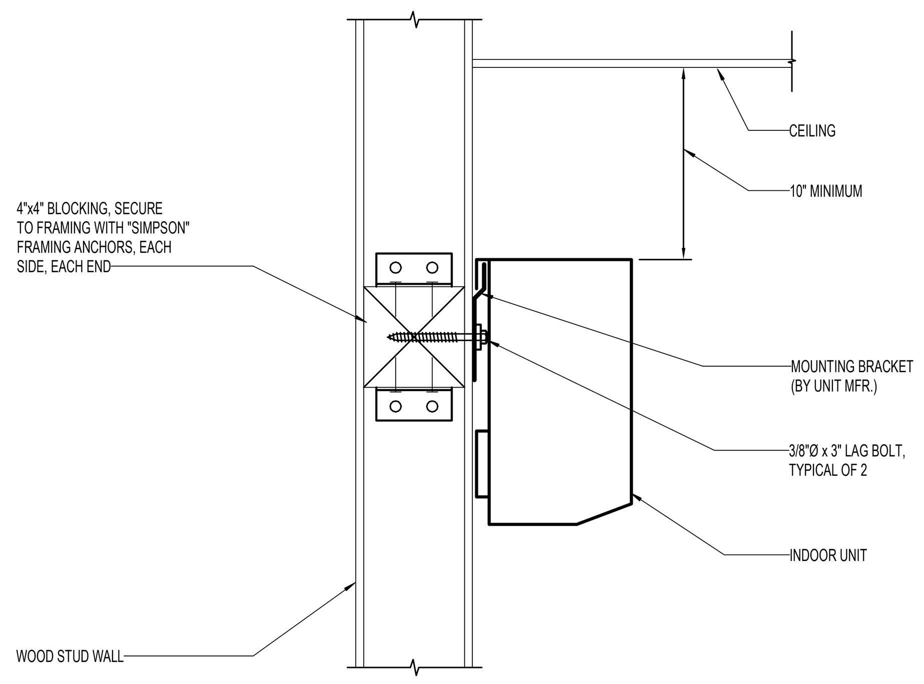


Beam Span (BS)		Channel Type & Uniform Beam Load Rating													
		B22SH		B22		B22A		B12		B12A*		B11		B11A*	
In.	(mm)	Lbs.	(kN)	Lbs.	(kN)	Lbs.	(kN)	Lbs.	(kN)	Lbs.	(kN)	Lbs.	(kN)	lbs.	(kN)
12"	(305)	2553	(11.35)	2837	(12.62)	8165	(36.32)	5498	(24.45)	3259	(14.49)	4395	(19.54)	4309	(19.16)
24"	(610)	1276	(5.68)	1418	(6.31)	4083	(18.16)	2750	(12.23)	3259	(14.49)	4395	(19.54)	4309	(19.16)
36"	(914)	851	(3.78)	946	(4.21)	2722	(12.11)	1833	(8.15)	3259	(14.49)	2930	(13.03)	4309	(19.16)
48"	(1219)	638	(2.84)	709	(3.15)	2042	(9.08)	1374	(6.11)	3259	(14.49)	2197	(9.77)	4309	(19.16)
60"	(1524)	511	(2.27)	568	(2.52)	1633	(7.26)	1100	(4.89)	3231	(14.37)	1758	(7.82)	4309	(19.16)
72"	(1829)	426	(1.89)	473	(2.10)	1361	(6.05)	916	(4.07)	2693	(11.98)	1465	(6.51)	4309	(19.16)
84"	(2133)	365	(1.62)	405	(1.80)	1167	(5.19)	785	(3.49)	2308	(10.26)	1256	(5.58)	3824	(17.01)
96"	(2438)	319	(1.42)	354	(1.57)	1021	(4.54)	687	(3.05)	2019	(8.98)	1011	(4.49)	3346	(14.88)
108"	(2743)	284	(1.26)	315	(1.40)	908	(4.04)	611	(2.72)	1795	(7.98)	977	(4.34)	2974	(13.23)
120"	(3048)	255	(1.13)	283	(1.26)	817	(3.63)	550	(2.44)	1616	(7.19)	879	(3.91)	2677	(11.91)

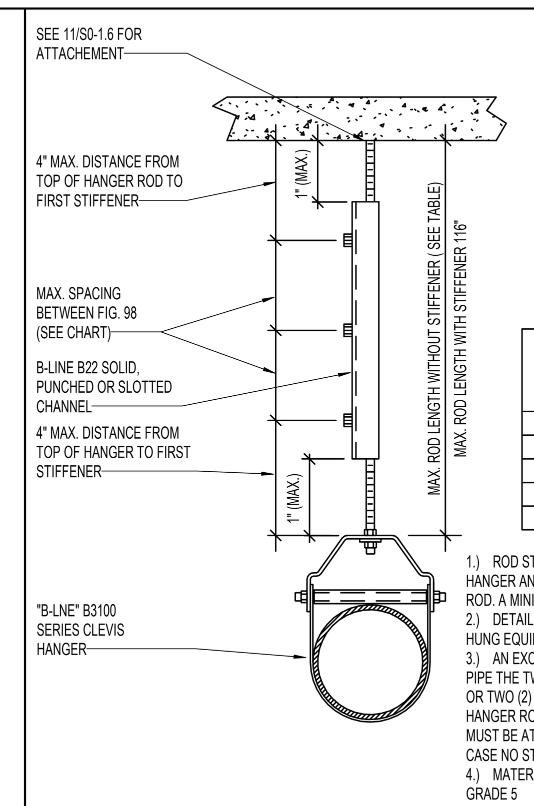
- Loads shown in chart have a safety factor of 2
- Based on a uniformly loaded simple span with adequate lateral bracing using an allowable stress of 21,000 psi (144.7 MPa)
- To determine concentrated load capacity at mid-span, multiply the uniform load by 0.5.
- Use 90% of the solid channel loads for corresponding SH and SHA channels.
- These back to back channels are mig welded.

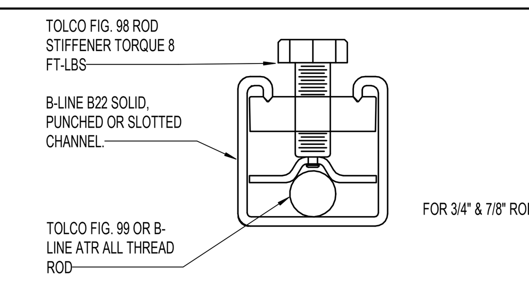
Structure Connection Type	Channel type and maximum beam span for longitudinal beam loading													
	B22SH		B22		B22A		B12		B12A*		B11		B11A*	
	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)
I	176	(4470)	196	(4978)	391	(9931)	276	(7010)	552	(14021)	357	(9068)	714	(18135)
II	103	(2616)	114	(2895)	228	(5791)	161	(4089)	322	(8179)	208	(5283)	416	(10566)
III	68	(1727)	76	(1930)	152	(3861)	107	(2718)	215	(5461)	139	(3530)	278	(7061)
IV	46	(1168)	51	(1295)	101	(2565)	72	(1829)	143	(3632)	93	(2362)	185	(4699)
V	32	(813)	35	(889)	70	(1778)	50	(1270)	99	(2514)	64	(1625)	128	(3251)

5 M7-3 TRAPEZE TABLES
SCALE: 1" = 1'-0"



10 M7-3 WALL MOUNTED FAN COIL UNIT
SCALE: 1" = 1'-0"



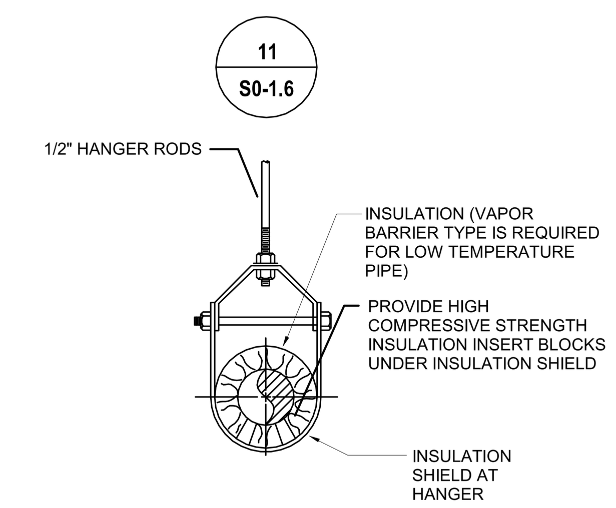


ROD STIFFENER CHART

ATR Size	MAX. ROD LENGTH WITHOUT ROD STIFFENER	MAX. COMPRESSION FORCE WITHOUT STIFFENER	MAX. SPACING BETWEEN TOLCO FIG. 98	MAX. COMPRESSION FORCE WITH STIFFENER
3/8"	18"	410	13"	1246
1/2"	25"	730	18"	2105
5/8"	31"	1160	23"	3187
3/4"	37"	1690	28"	4493
7/8"	43"	2320	33"	6021

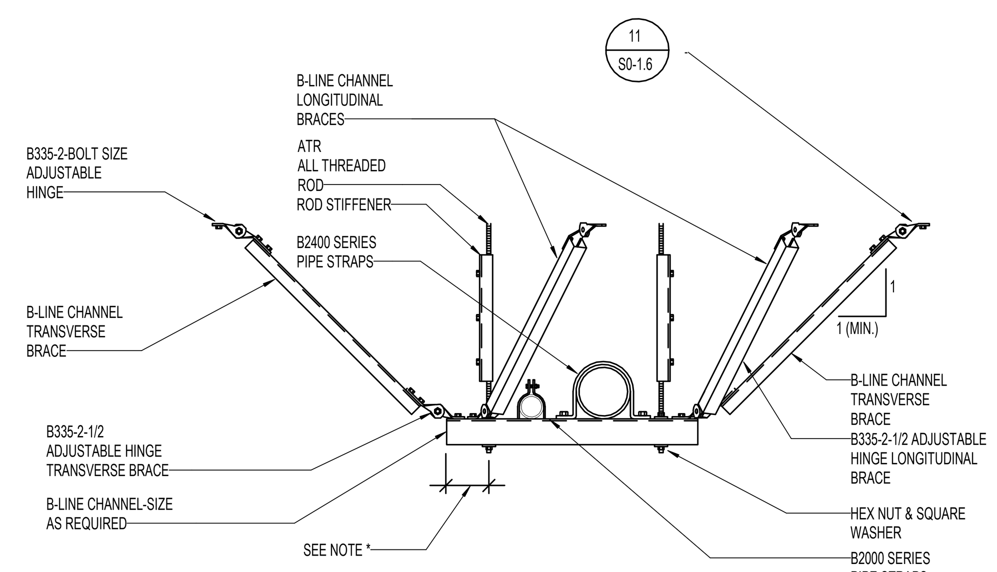
1.) ROD STIFFENERS ARE REQUIRED ONLY ON VERTICAL STRUT COMPONENT OF THE SEISMIC BRACE SYSTEM ON HANGER AND TRAPEZE ASSEMBLIES THAT HAVE SEISMIC BRACING BRACING ATTACHED AT OR WITHIN 4" OF THE ROD. A MINIMUM OF TWO ROD STIFFENERS (TOLCO FIG. 98) MUST BE INSTALLED.
2.) DETAIL APPLIES TO ALL HUNG UTILITIES INCLUDING SINGLE HUNG UTILITIES, TRAPEZE HUNG UTILITIES, AND HUNG EQUIPMENT.
3.) AN EXCEPTION IS THE USE OF TWO OPPOSING RIGID BRACES AT THE SAME LOCATION. FOR INDIVIDUALLY HUNG PIPE THE TWO OPPOSING RIGID BRACES MUST BE AT THE SAME HANGER ROD; TOTAL OF TWO (2) FOR TRANSVERSE, OR TWO (2) FOR LONGITUDINAL. FOR A TRAPEZE HANGER THE TWO OPPOSING RIGID BRACES MUST BE AT THE SAME HANGER ROD; TOTAL OF TWO (2) FOR TRANSVERSE, OR FOUR (4) FOR LONGITUDINAL. THE TWO OPPOSING BRACES MUST BE AT THE SAME ANGLE FROM HORIZONTAL AND WITHIN 5-DEGREES OF 180 DEGREES FROM EACH OTHER. IN THIS CASE NO STIFFENING OF VERTICAL ROD IS NECESSARY.
4.) MATERIAL SPECIFICATIONS FOR TOLCO FIG. 98, BODY: ASTM A-1011-CS TYPE B SAE 1006, BOLT: HEX BOLT GRADE 5

6 M7-3 ROD STIFFENER
SCALE: 1" = 1'-0"



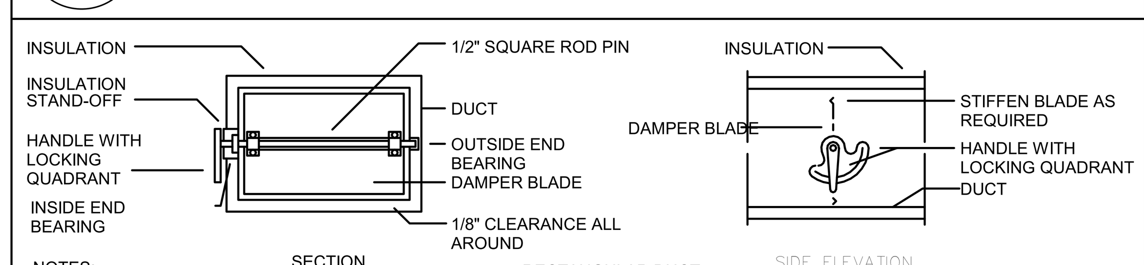
ADJUSTABLE CLEVIS HANGER

3 M7-3 PIPE HANGER AND SUPPORT DETAIL
SCALE: 12" = 1'-0"

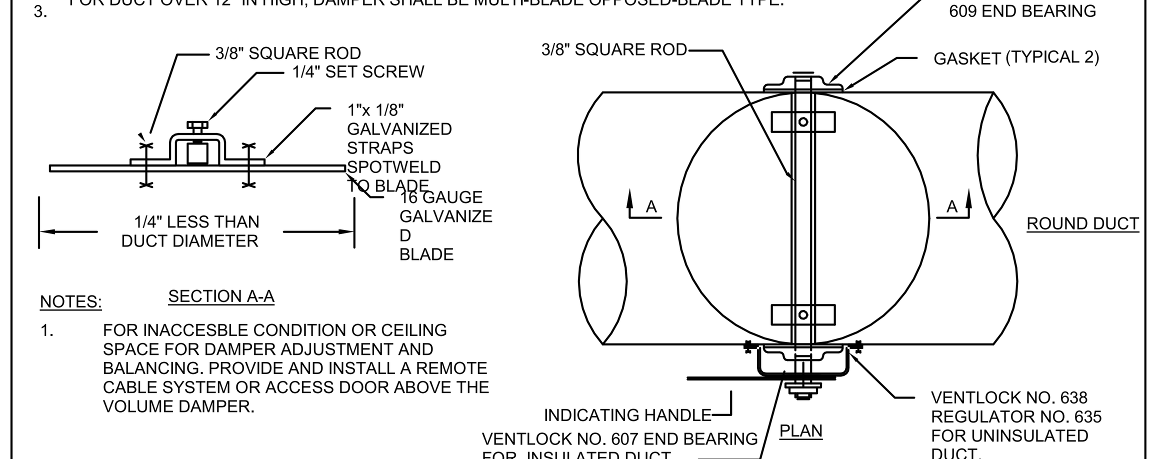


NOTES:
1). B335-2 ADJUSTABLE HINGES FOR LONGITUDINAL BRACES MAY BE ATTACHED ON EITHER SIDE ADJACENT TO THE ALL THREAD ROD, OR ATTACHED TO THE ALL THREAD ROD ITSELF.
2). B335-2 ADJUSTABLE HINGES FOR TRANSVERSE BRACES MAY BE ATTACHED TO THE ALL THREAD ROD.
3). TWO B335-2 ADJUSTABLE HINGES MAY BE ATTACHED TO THE STRUT TRAPEZE USING THE SAME BOLT OR ALL THREAD-ROD.
4). IT IS NOT NECESSARY TO INSTALL BOTH TRANSVERSE BRACES AND LONGITUDINAL BRACES ON THE SAME TRAPEZE SUPPORT. EITHER SET OF BRACES MAY BE REMOVED TO FORM A LONGITUDINAL BRACE ONLY OR A TRANSVERSE BRACE ONLY IF DESIRED.
5). LONGITUDINAL BRACES, WHEN NEEDED, MUST BE INSTALLED AT BOTH ENDS OF TRAPEZE.
6). THE EQUIPMENT SHOWN ON THIS TRAPEZE SUPPORT IS GENERIC IN NATURE. ANY NUMBER OF PIPES, CONDUITS, DUCTWORK OR CABLE TRAY MAY BE SUPPORTED FOLLOWING THE SYSTEM WEIGHT AND SUPPORT SPANS LISTED IN APPENDIX 2 - TABLE 1 (OPM-0052-13).
* DETERMINE LENGTH OF TRAPEZE, MAKING SURE SUFFICIENT LENGTH IS ADDED TO ATTACH THE ALL THREAD ROD AND BRACING ATTACHMENTS.

8 M7-3 TRAPEZE BRACING
SCALE: 1" = 1'-0"



NOTES:
1. DELETE INSULATION STAND-OFF ON DUCTWORK WITHOUT EXTERIOR INSULATION.
2. DETAIL SHOWS SINGLE BLADE DAMPER. DAMPER INSTALLATION SHALL BE SIMILAR FOR MULTI-BLADE DAMPERS AND ROUND DAMPERS.
3. FOR DUCT OVER 12" IN HIGH, DAMPER SHALL BE MULTI-BLADE OPPOSED-BLADE TYPE.

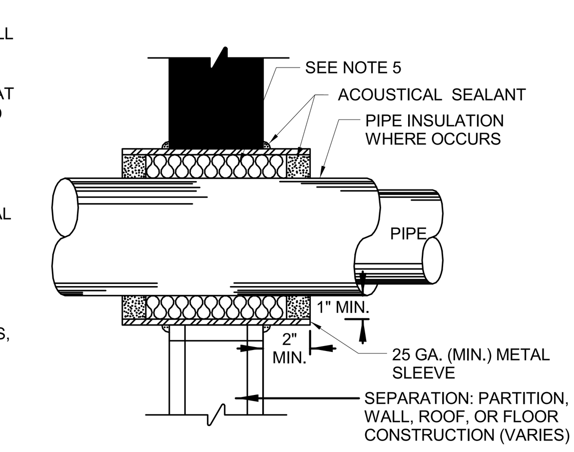


NOTES:
1. FOR INACCESSBLE CONDITION OR CEILING SPACE FOR DAMPER ADJUSTMENT AND BALANCING, PROVIDE AND INSTALL A REMOTE CABLE SYSTEM OR ACCESS DOOR ABOVE THE VOLUME DAMPER.

7 M7-3 MANUAL VOLUME DAMPER DETAIL
SCALE: 12" = 1'-0"

NOTES:
1. PROVIDE ESCUTCHEONS AT EXPOSED LOCATIONS.
2. SPACE BETWEEN PIPE AND SLEEVE SHALL BE FREE OF ANY FOREIGN MATERIALS.
3. PIPE SHALL NOT CONTACT STRUCTURE AT ANY TIME. WEDGES SHALL NOT BE USED TO MAINTAIN PIPE IN POSITION.
4. PIPE MUST BE APPROXIMATELY CENTERED IN OPENING. PROVIDE ADDITIONAL CLEARANCE FOR POSITIONAL CHANGE OF PIPE DUE TO LOADING OF PIPE OR OPERATION OF SYSTEM.
5. AT FIRE-RATED SEPARATIONS, PROVIDE FIRE STOPPING SEALANT (SEE NOTE A) AND FOR NON-FIRE-RATED SEPARATIONS, PROVIDE FIBERGLASS INSULATION 24 KG/CU M MAX. 100% FILL.

NOTES:
A. SEAL W/ 3M #CP25N/S FIRE BARRIER NO SAG CAULK OR EQUAL



4 M7-3 PIPE THRU FIRE-RATED WALL DETAIL
SCALE: 12" = 1'-0"

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MECHANICAL

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owner

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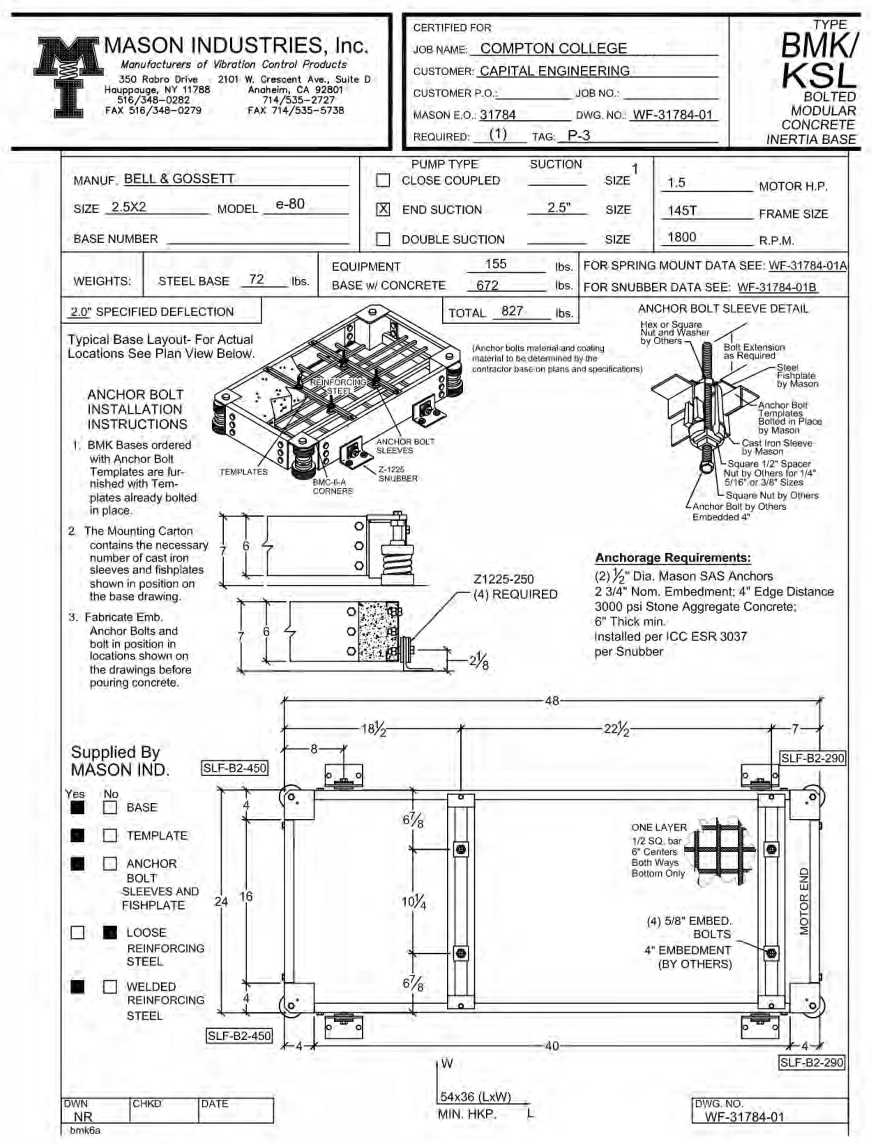
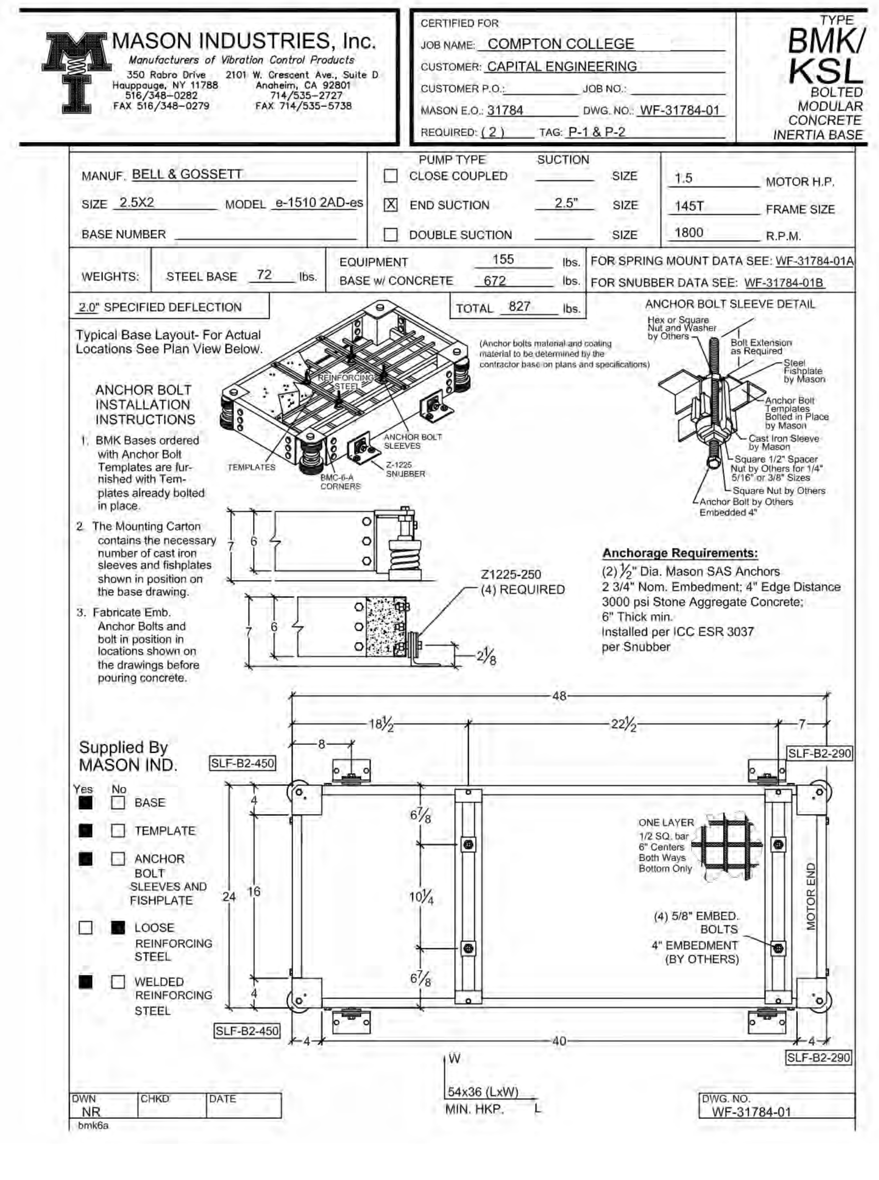


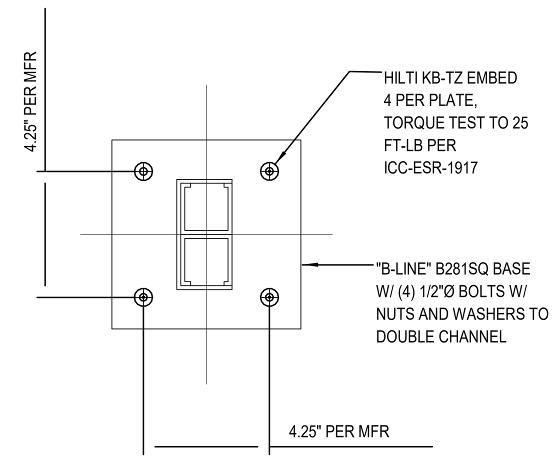
7 ISOLATION FOR P-3
M7-4 SCALE: NTS



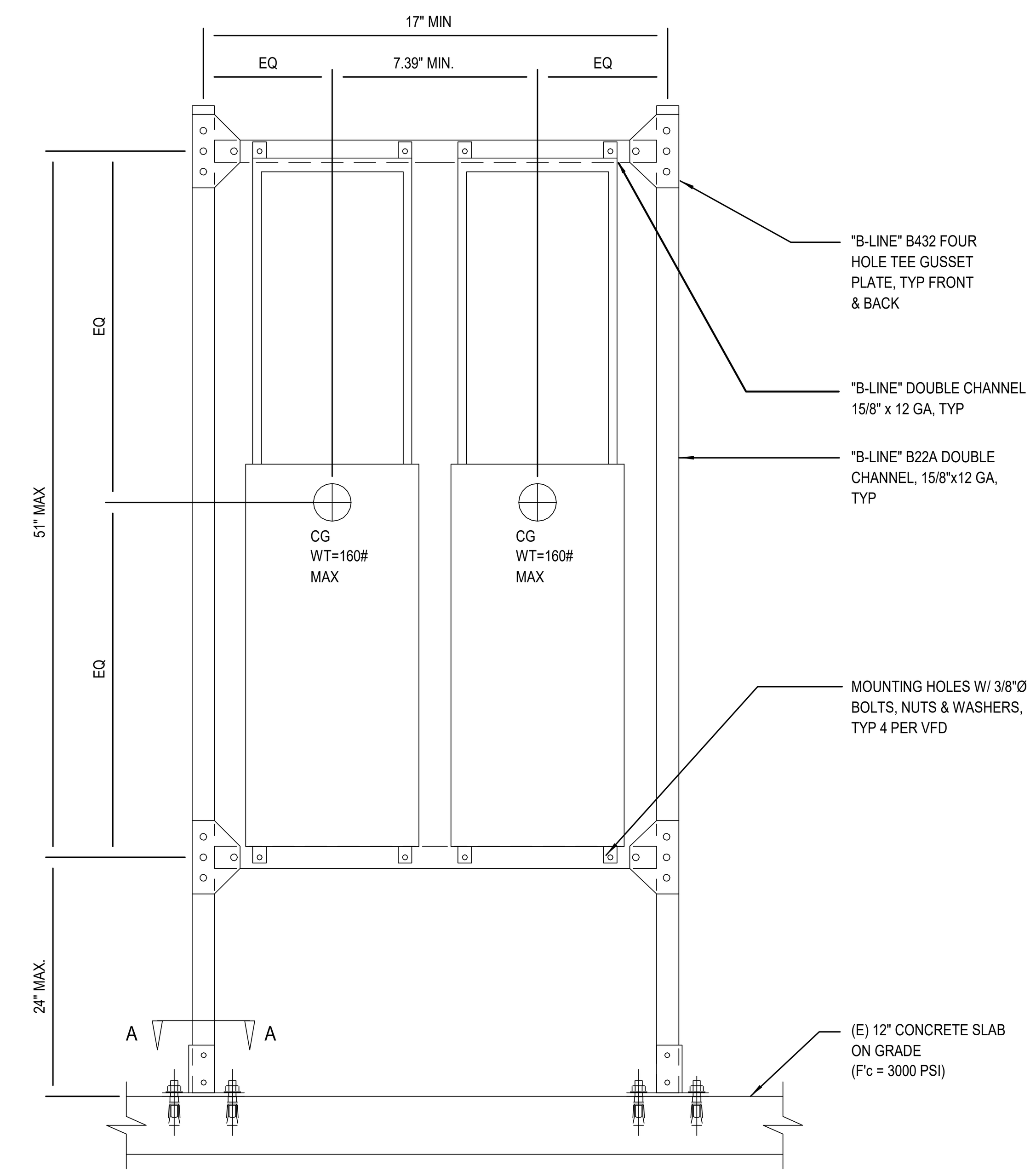
6 ISOLATION FOR P-1 & P-2
M7-4 SCALE: NTS

NOTES:

1. VERIFY ACTUAL MOUNTING & CLEARANCE REQUIREMENTS WITH EQUIPMENT MANUFACTURER.
2. MAINTAIN 42" MINIMUM CLEARANCE IN FRONT OF VFD.
3. DIMENSIONS AND WEIGHT ON DETAIL REPRESENT WORSE CASE SCENARIO BETWEEN EACH VFD.

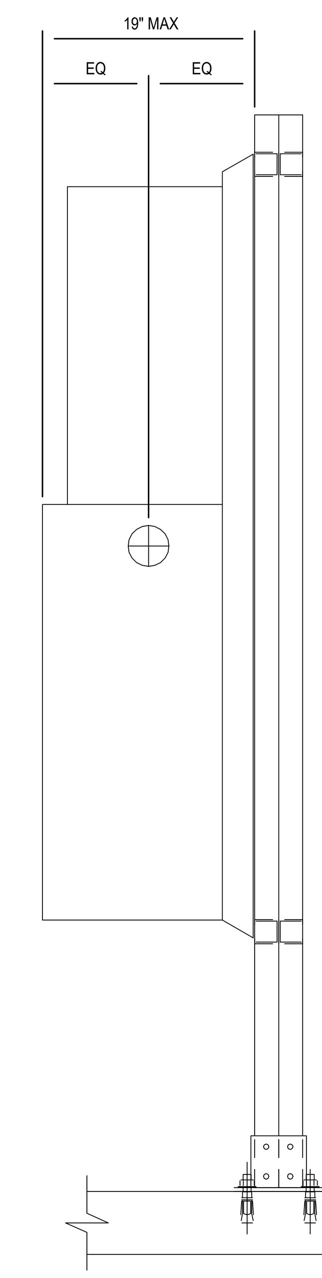


A-A



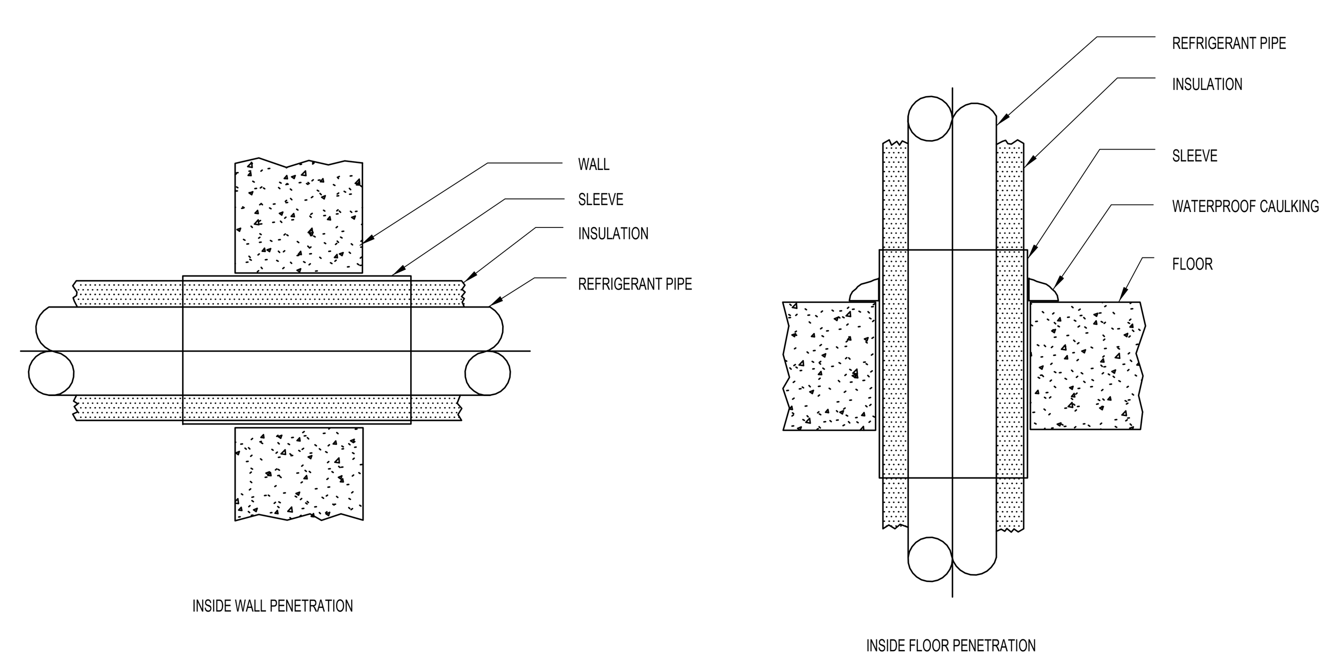
FRONT

NOTE:
CONDITION WITH RACK SUPPORTING ONLY ONE VFD IS SIMILAR.



SIDE

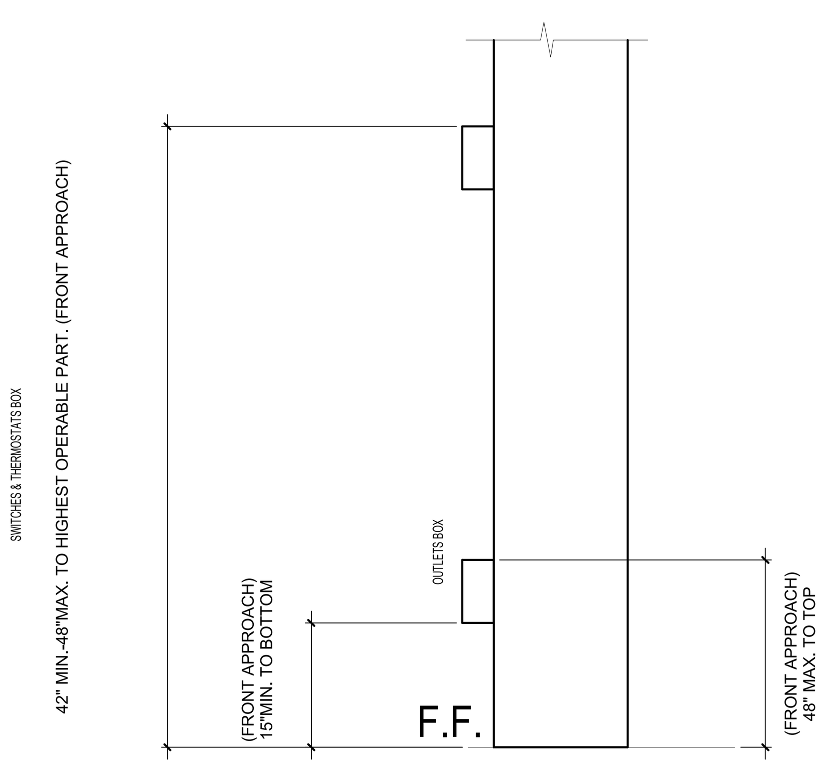
1 MULTI VFD MOUNTING
M7-4 SCALE: 12" = 1'-0"



INSIDE WALL PENETRATION

INSIDE FLOOR PENETRATION

5 REFRIGERENT PIPE PENETRATION
M7-4 SCALE: NONE



2 ELECTRICAL MOUNTING HEIGHTS
M7-4 SCALE: 12" = 1'-0"

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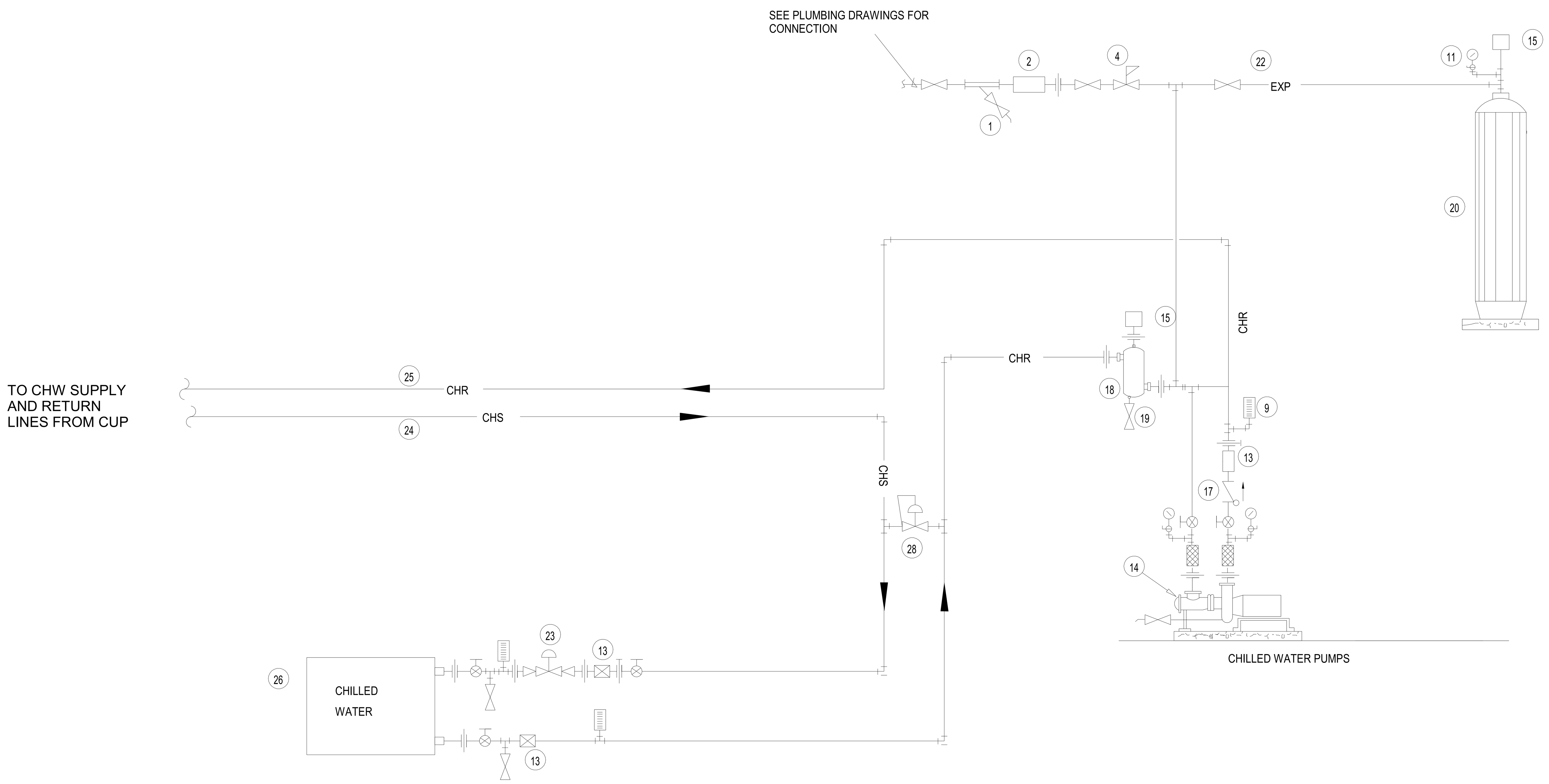

PIPING SCHEMATIC DIAGRAM

NO SCALE

CHILLER PIPING LEGEND

1. STRAINER WITH BLOW DOWN VALVE (TYPICAL).
2. REDUCED PRESSURE BACKFLOW PREVENTER WITH 3/4" DRAIN LINE TO FLOOR DRAIN.
4. PRV SELF FILL VALVE SET AT 12 PSIG.
5. 3" OVERFLOW TO DRAIN.
9. TEMPATURE GAUGE
11. PRESSURE GAUGE
13. FLOW METER WITH BALANCE COCK.
14. SUCTION DIFFUSER REQUIRED AT ALL FLOOR MOUNTED PUMPS. DIFFUSER SHALL MATCH PUMP INLET AND SYSTEM LINE SIZE AND SHALL BE SAME MANUFACTURER AS PUMP.
15. AIR VENT, (TYPICAL). INSTALL AT ALL RISES, DROPS, AND HIGH POINTS OF SYSTEM.
17. SPRING LOADED CHECK VALVE (TYPICAL).
18. AIR SEPARATOR (FULL LINE SIZE).
19. 3/4" GATE VALVE, TYPICAL PROVIDE THREADED HOSE CONNECTION WHEN USED AS A DRAIN VALVE.
20. BLADDER EXPANSION TANK
22. EXPANSION WATER PIPING.
23. TWO-WAY TCV CONTROL VALVE (TYPICAL).
24. CHILLED WATER SUPPLY PIPING.
25. CHILLED WATER RETURN PIPING.
26. CHILLED WATER COIL.
28. PRESSURE MODULATING VALVE (TYPICAL).

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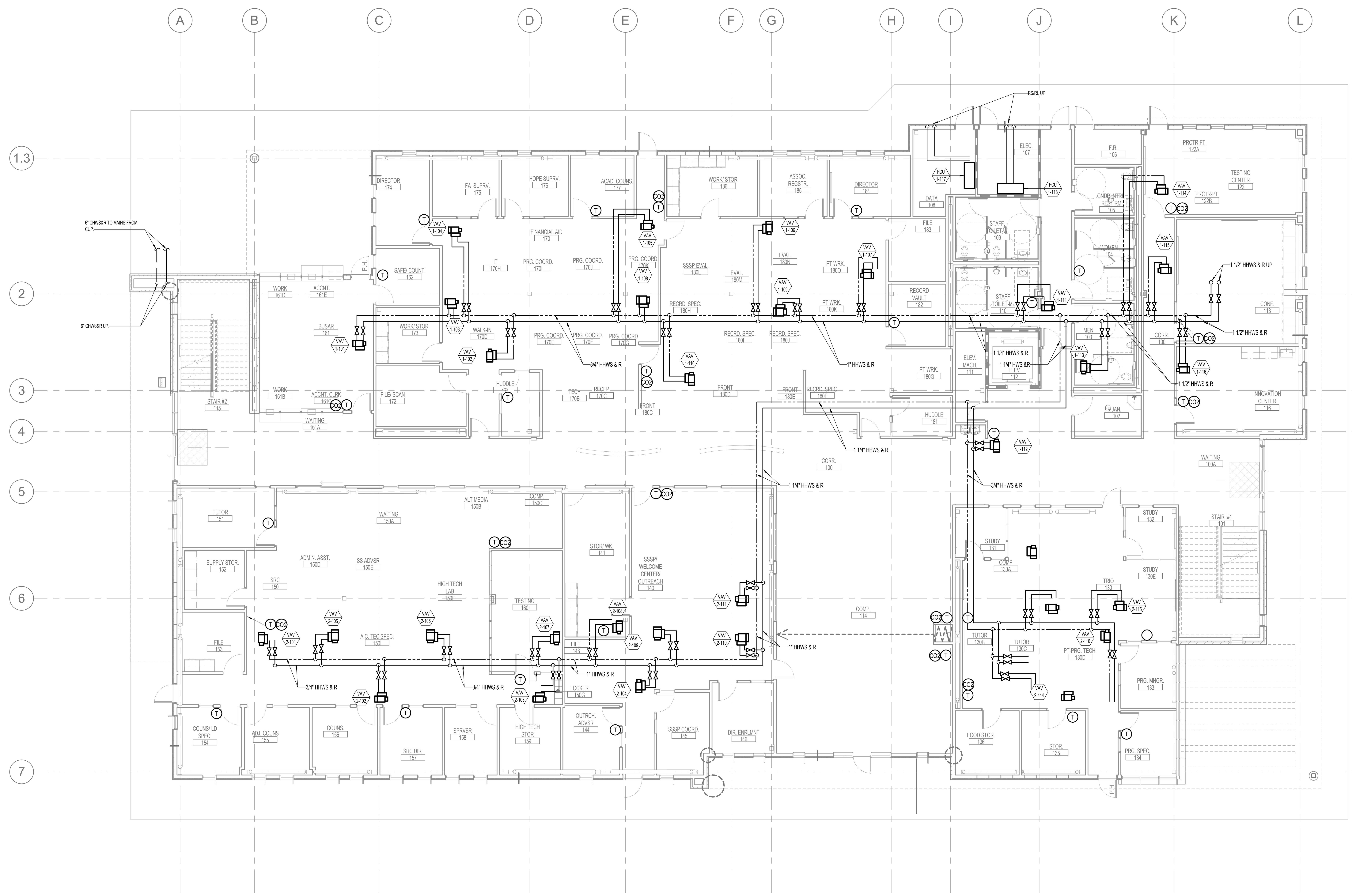

MECHANICAL PIPING FIRST FLOOR PLAN 1

SCALE 1/8" = 1'-0"

NORTH

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MECHANICAL PIPING
FIRST FLOOR PLAN

drawing no.:
MP1-1

MECHANICAL PIPING SECOND FLOOR PLAN 1

SCALE 1/8" = 1'-0"

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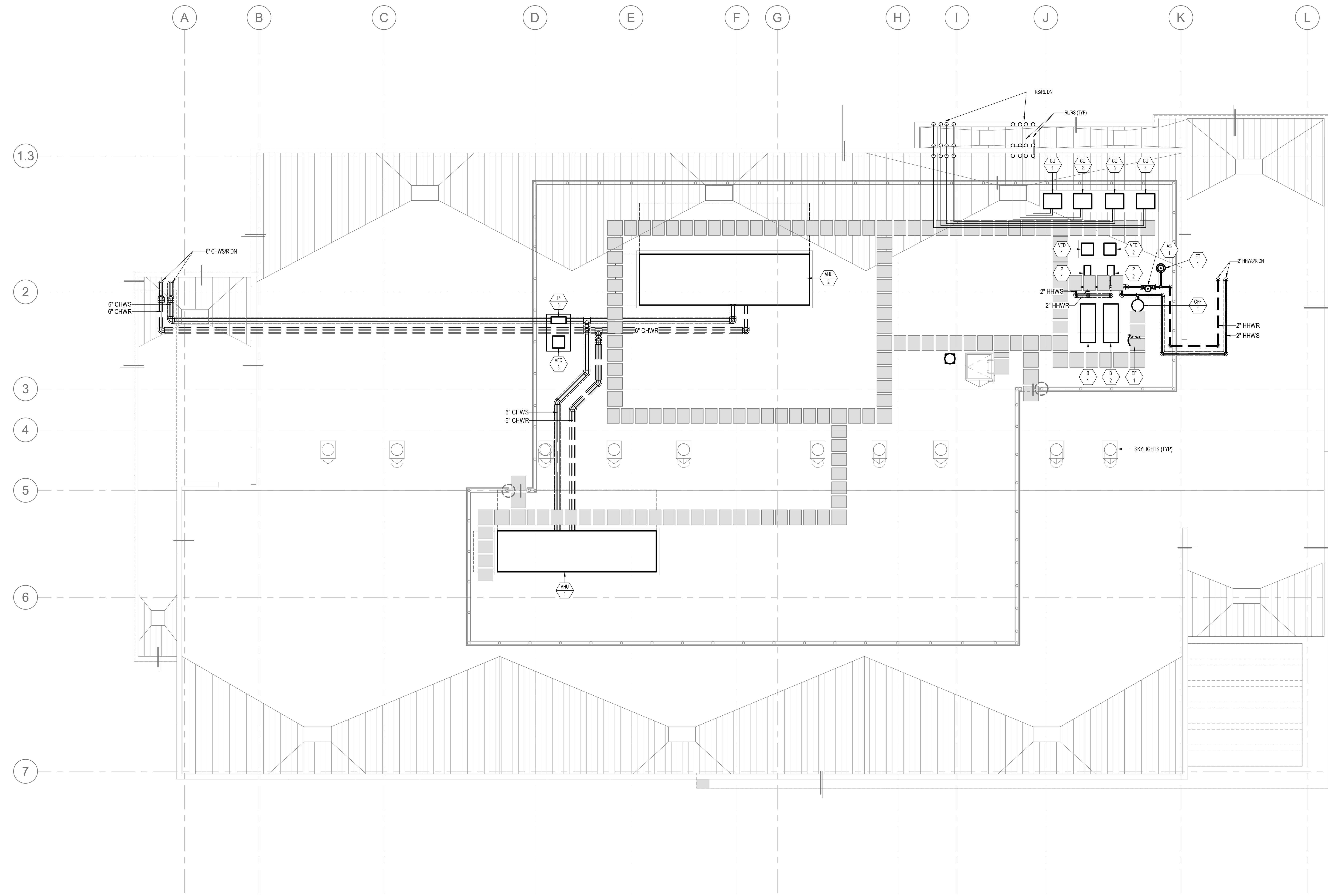
MECHANICAL PIPING SECOND FLOOR PLAN

drawing no.:
MP1-2



MECHANICAL PIPING ROOF PLAN (1)
SCALE 1/8" = 1'-0"

NORTH

GENERAL NOTES:

1. REFER TO DETAIL 11/M7-2 FOR MECHANICAL PIPE ON ROOF SUPPORT DETAIL.

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MECHANICAL PIPING ROOF PLAN

drawing no.:
MP3-1

GREEN BUILDING CODE NOTES

1. A FINAL REPORT FOR THE TESTING AND ADJUSTING OF ALL NEW SYSTEMS SHALL BE COMPLETED PRIOR TO FINAL APPROVAL BY THE FIELD INSPECTOR. THIS REPORT SHALL BE SIGNED BY THE INVIDIVIDUAL RESPONSIBLE FOR PERFORMING THESE SERVICES.
2. AN OPERATING & SYSTEMS MANUAL SHALL BE PROVIDED TO THE OWNER OR REPRESENTATIVE AND TO THE FIELD INSPECTOR AT THE TIME OF FINAL INSPECTION.
3. IF THE NEW HVAC SYSTEM IS USED DURING CONSTRUCTION, USE RETURN AIR FILTERS WITH A MERV OF 8. REPLACE ALL FILTERS IMEEDIATELY PRIOR TO OCCUPANCY.
4. ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENING SHALL BE COVERED WITH TAPE, PLASTIC, OR SHEET METAL UNTIL THE FINAL STARTUP OF THE HEATING, COOLING AND VENTILATING EQUIPMENT.
5. THE HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT SHALL NOT CONTAIN CFC OR HALONS.
6. HVAC AND WATER SYSTEMS TO BE BALANCED PER AABC STANDARDS.
7. SYSTEM DESCRIPTION: HVAC SYSTEM CONSIST OF MULTIPLE ZONE VARIABLE VOLUME & CONSTANT VOLUME AIR HANDLING SYSTEMS AND STAND ALONE SPLIT SYSTEM DX UNITS.

DSA NOTES

1. ALL WORK SHALL CONFORM TO 2016 EDITION TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
2. THE SCOPE OF WORK; CLEARLY INDICATED THE SCOPE OF WORK ON THE COVER SHEET OR GENERAL NOTE SHEET OF THE DRAWINGS.
3. FABRICATION AND INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTOR'S DRAWINGS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS FOR THE ACTUAL SYSTEMS TO BE INSTALLED HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER AND APPROVED BY THE DSA. LIST DEFERRED SUBMITTAL ITEMS FOR THIS PROJECT.
4. CHANGE TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DSA, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
5. A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.
6. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
7. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR)
8. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

GENERAL NOTES

1. ACCESS PANELS SHALL BE PROVIDED AS NECESSARY TO PROPERLY ACCESS THE PLUMBING SYSTEM INCLUDING VALVES, REFER TO SPECIFICATION SECTION 08310. ARCHITECT TO APPROVE TYPE/FINISH PRIOR TO INSTALLATION.
2. OFFSET VENT THROUGH ROOFS 10'-0" MINIMUM FROM AIR INTAKES AND 4'-0" FROM OUTSIDE WALLS.
3. HVAC EQUIPMENT IS SHOWN FOR THE COORDINATION OF UTILITIES ONLY. REFER TO 'M' SHEETS FOR MORE INFORMATION.
4. THE CONNECTION OF CONDENSATE DRAIN LINES TO HVAC EQUIPMENT SHALL INCLUDE A MINIMUM 4" DEEP "P"-TRAP AND PLUGGED TEE AT ALL OFFSETS.
5. PROVIDE WATER HAMMER ARRESTORS (WHA) AS INDICATED ON PLUMBING PLANS AND AS DESCRIBED WITHIN DIVISION 22 SPECIFICATIONS. SIZING SHALL BE IN ACCORDANCE WITH PDI STANDARD WH-201.
6. FOR PIPES PASSING THROUGH, UNDER OR PARALLEL TO BUILDING FOOTINGS, RETAINING WALLS ETC. REFER TO STRUCTURAL DETAILS, 'S' SHEETS, FOR TYPICAL ARRANGEMENT.
7. CONTRACTOR SHALL FIELD VERIFY ALL POINTS OF CONNECTION TO SITE PIPING (LOCATIONS AND INVERT) PRIOR TO EXCAVATION, FABRICATION AND INSTALLATION OF ASSOCIATED PIPING RUNS. NOTIFY THE PROJECT ARCHITECT AND CIVIL ENGINEER IMMEDIATELY IF POINTS OF CONNECTION OR INVERTS ARE DIFFERENT THAN REPRESENTED ON THE DRAWINGS.
8. OFFSET ALL RISERS AND DROPS TO AVOID PENETRATIONS AT STRUCTURAL TOP PLATES.
9. PENETRATION OF PIPES, CONDUIT, ETC., IN WALLS AND/OR FLOORS REQUIRING PROTECTED OPENINGS SHALL BE FIRE STOPPED. MATERIAL SHALL BE A UL LISTED & TESTED ASSEMBLY APPROVED BY THE STATE FIRE MARSHAL.
10. SEAL ALL PIPE PENETRATIONS THRU FLOORS WATERTIGHT.
11. DRAWINGS SHALL BE CONSIDERED DIAGRAMMATIC ONLY. CONTRACTOR SHALL FIELD VERIFY WHERE POSSIBLE, EXACT LOCATIONS, SIZES, AND ELEVATIONS OF ALL ITEMS SHOWN PRIOR TO THE INSTALLATION OF ANY NEW WORK.
12. THE DRAWINGS ARE NOT INTENDED TO SHOW EVERY OFFSET OR FITTING OR EVERY STRUCTURAL DIFFICULTY THAT MAY BE ENCOUNTERED DURING INSTALLATION OF THE WORK. LOCATION OF ALL ITEMS NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. EXACT LOCATIONS NECESSARY TO SECURE BEST CONDITIONS AND RESULTS MUST BE DETERMINED AT THE JOB SITE AND SHALL HAVE THE APPROVAL OF THE ARCHITECT BEFORE BEING INSTALLED.
13. ALL VALVES SHOWN SHALL BE FULL LINE SIZE UNLESS OTHERWISE NOTED.
14. CLOSELY COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO TRENCHING OR INSTALLATION OF NEW. IDENTIFY SIZE AND LOCATIONS OF ALL PENETRATIONS THROUGH FOUNDATIONS, WALLS OR ROOFS PRIOR TO FABRICATION OF ANY SYSTEMS OR ORDERING MATERIALS AFFECTED BY POSSIBLE COORDINATION CONFLICTS.
15. CONCRETE ANCHORS SHALL BE HILTI, KWIK BOLT TZ 3/8" - SEE STRUCTURAL PLAN, S0-0.2.
16. PIPING SHALL BE SUPPORTED AND BRACED IN STRICT COMPLIANCE WITH DIVISION 22 SPECIFICATIONS.
17. PENETRATION OF PIPES, CONDUITS, ETC., IN WALLS AND/OR FLOORS REQUIRING PROTECTED OPENINGS SHALL BE FIRE STOPPED. MATERIAL SHALL BE A TESTED ASSEMBLY APPROVED BY THE STATE FIRE MARSHAL.
18. ALL NEW SANITARY WASTE PIPING SHOWN SHALL BE SLOPED AT 1/4" PER FOOT MINIMUM UNLESS OTHERWISE NOTED ON PLANS. WHERE SLOPES LESS THAN 1/4" PER FOOT ARE INDICATED, CONTRACTOR SHALL SLOPE NEW PIPING UNIFORMLY BETWEEN UPPER TERMINAL OF PIPE AND THE POINT OF CONNECTION TO THE SITE PIPING (AS INDICATED ON THE CIVIL PLANS) TO ACHIEVE MAXIMUM SLOPE POSSIBLE AND IN NO CASE SHALL THE PIPING BE SLOPED LESS THAN THE MINIMUM INDICATED.
19. CONCEAL ALL PIPING IN WALL FURRING, PARTITIONS, ETC., EXCEPT AT MECHANICAL ROOMS.
20. REFER TO ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS AND EXACT LOCATIONS OF PLUMBING FIXTURES.
21. THE CONNECTION OF NATURAL GAS LINES TO HVAC EQUIPMENT SHALL, BE FULL LINE SIZE & INCLUDE A LINE SIZE UNION, GAS SHUT-OFF VALVE AND A MINIMUM 6" LONG DIRT LEG WITH ACCESSIBLE END CAP.
22. PIPE, PLUMBING FITTINGS, FIXTURES, SOLDER AND FLUX SHALL COMPLY WITH LEAD FREE REQUIREMENTS OF THE CALIFORNIA HEALTH AND SAFETY CODE SECTION 116875. PROVIDE PRODUCTS LISTED AND LABELED AS COMPLYING WITH NSF 61, ANNEX G, OR PROVIDE OTHER EVIDENCE OF COMPLIANCE WITH THE CALIFORNIA HEALTH AND SAFETY CODE SECTION 116875. PROVIDE PRODUCT SUBMITTAL INFORMATION PROVING COMPLIANCE WITH LEAD FREE REQUIREMENTS. ALSO REFER TO SPECIFICATION SECTIONS 22 00 50, 22 10 00 AND 22 40 00.

PIPING, DUCTWORK & ELECTRICAL DISTRIBUTION SYSTEM EMBRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8, AND 2016 CBC, SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON PREAPPROVED INSTALLATION GUIDE (e.g., SMACNA OR OSHPD OPM), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP ☐ MD ☐ PP ☐ E ☐ — OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS

MP ☐ MD ☐ PP ☐ E ☐ — OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM #) #_0043-13_____

MP ☐ MD ☐ PP ☐ E ☐ — OPTION 3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL: OSHP EDITION (2009), INCLUDING ANY ADDENDA. FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL: OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL ____ AND CONNECTION LEVEL ____ FOR THE PROJECT AND CONDITIONS.

PLUMBING SHEET LIST

SHEET NUMBER	SHEET TITLE
P0-1	LEGEND, ABBR. & GENERAL NOTES,
P0-1	LEGEND, ABBR. & GENERAL NOTES
P0-2	PLUMBING SCHEDULES
P0-2	PLUMBING SCHEDULES
P0-3	PLUMBING SITE PLAN
P0-3	SITE PLAN
P1-1	PLUMBING FIRST FLOOR PLAN - GRAVITY
P1-1	PLUMBING FIRST FLOOR PLAN - GRAVITY
P1-2	PLUMBING FIRST FLOOR PLAN - PRESSURE
P1-2	PLUMBING FIRST FLOOR PLAN - PRESSURE
P2-1	PLUMBING SECOND FLOOR PLAN - GRAVITY
P2-1	PLUMBING SECOND FLOOR PLAN - GRAVITY
P2-2	PLUMBING SECOND FLOOR PLAN - PRESSURE
P2-2	PLUMBING SECOND FLOOR PLAN - PRESSURE
P2-3	PLUMBING ROOF PLAN
P2-3	PLUMBING ROOF PLAN
P4-1	PLUMBING ENLARGED FLOOR PLANS
P4-1	PLUMBING ENLARGED FLOOR PLANS
P4-2	PLUMBING ENLARGED FLOOR PLANS
P4-2	PLUMBING ENLARGED FLOOR PLANS
P7-1	PLUMBING DETAILS
P7-1	PLUMBING DETAILS

PLUMBING LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	ABBR	ABBREVIATION
	ABV CLG	ABOVE CEILING
	BFP	BACKFLOW PREVENTER ASSEMBLY
	BLV	BALANCING VALVE
	BLW	BELOW
	BV, BAL VLV	BALL VALVE
		BRANCH - TOP CONNECTION
		BRANCH - BOTTOM CONNECTION
or		BRANCH - SIDE CONNECTION
	COP	CAP ON END OF PIPE
	RD	ROOF DRAIN
CL		CENTER LINE
	CKV	CHECK VALVE
	CW	COLD WATER
CD	CD	CONDENSATE DRAIN LINE
CO CO	CO	CLEANOUT
°F		DEGREES FAHRENHEIT
F	F	FIRE PROTECTION WATER SUPPLY
	FR	FROM
	FU	FIXTURE UNIT
Ø	CO	CLEANOUT
	FCO	FLOOR CLEANOUT
	FD	FLOOR DRAIN
	FS	FLOOR SINK
	FLR	FLOOR
		FLOW IN DIRECTION OF ARROW
FV , FT		FLUSH VALVE , FLUSH TANK
(FA) , (TA)		FROM ABOVE , TO ABOVE
(FB) , (TB)		FROM BELOW , TO BELOW
	GSOV	GAS SHUT-OFF VALVE
	HDR	HEADER
ICW	ICW	INDUSTRIAL COLD WATER
NGLP	NGLP	NATURAL GAS - LOW PRESSURE
MPG	MPG	NATURAL GAS - MEDIUM PRESSURE
R	GPR	GAS PRESSURE REGULATOR
	GV	GREASE VENT
	GPM	GALLONS PER MINUTE
Ø	CO	CLEANOUT
GW	GW	GREASE WASTE PIPING
	HB	HOSE BIBB
	HW	HOT WATER PIPING
	HWR	HOT WATER RETURN PIPING
	(N) , (E)	NEW , EXISTING
	(NTS)	NOT TO SCALE
	OH	OVERHEAD
	OD	OVERFLOW DRAIN
		PIPING TO BE REMOVED
	POC	POINT OF CONNECTION
	PG	PRESSURE GAUGE
P & TRV	P & TRV	PRESSURE & TEMPERATURE RELIEF VALVE PIPING
RWL	RWL	RAINWATER LEADER
	IE.	INVERT ELEVATION
	(R) , (D)	RISE , DROP
		RISER DOWN (ELBOW)
		RISER UP (ELBOW)
	(R) (D)	RISE OR DROP
	S, W	SOIL, WASTE OR SANITARY SEWER ABOVE FLOOR
	S, W	SOIL, WASTE OR SANITARY SEWER BELOW FLOOR
	SMR	SIMILAR
	SV	SOLENOID VALVE WITH MOTOR ACTUATOR
SD	SD	STORM DRAIN
SS	SS	SANITARY SEWER
	TH	THERMOMETER
	TP w/AD	TRAP PRIMER VALVE IN WALL BOX WITH ACCESS DOOR. SEE PLUMBING DETAILS.
TP		TRAP PRIMER PIPING
	(TYP.)	TYPICAL
	UN	UNION OR FLANGE
	UR	URINAL
	VB	VALVE IN VALVE BOX (REFER TO SPECIFICATIONS FOR VALVE TYPE).
	V	VENT PIPING
V , VR , VTR		VENT , VENT RISER , VENT THRU ROOF
	WCO	WALL CLEANOUT
	WHA	WATER HAMMER ARRESTER
	TDL	TOTAL DEVELOPED LENGTH

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT THE ATTACHMENT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTION SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-119686 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/14/2019

DIVISION OF THE STATE ARCHITECT
WELLS FARGO CENTER - SOUTH TOWER
355 SOUTH GRAND AVENUE, SUITE 2100
LOS ANGELES, CA 90071
ph:(213) 897-3995 fx:(213) 897-3159/0726
agency

tBP architecture planning interiors
tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895
architect

CAPITAL ENGINEERING CONSULTANTS, INC.
LONG BEACH, CALIFORNIA
RH - TS/SL/DV — PM - DESIGN TEAM
170822.00 — PROJECT NO.
REGISTERED PROFESSIONAL ENGINEER — M 34011 — EXPIRES [illegible] — MECHANICAL — STATE OF CALIFORNIA
DATE SIGNED: 08/16/19
consultant

COMPTON COLLEGE
STUDENT SERVICES BLDG.

COMPTON COMMUNITY COLLEGE DISTRICT
1111 E. ARTESIA BLVD.
COMPTON, CA 90221
owner

tBP project number: 20987.00
file name: CECI_COMPTON CC STUDENT SERVICES_MP18_CENTRAL.RVT
drawn by: CECI checked by: CM
date: 9.03.2019

rev:	date:	description:

drawing title:
LEGEND, ABBR. & GENERAL NOTES,

drawing no.:
P0-1

Cold Water Calc

DESIGN CRITERIA

Total estimated demand (GPM) from fixture calc sheet:		74
1. Pressure @ Street Main (Static Pressure - information can be aquired from the local Water Purveyor)	Static Pressure=70 PSI	49
2. Pressure loss due to height (from buried depth below grade to the highest most point in the system - above ceiling, floor level of a multi-story building, etc...)	30 ft. x .434	13.02
3. Pressure loss thru meter (<u>Note</u>: losses may vary from 2 PSI up to 5 PSI - verify meter type and losses with the local Water Purveyor)	N/A	0
4. Pressure loss thru other devices (i.e., BFP) (Note: losses may vary from 8 PSI up to 15 PSI - verify BFP type and losses with the local Water Purveyor)		0
5. Total pressure loss (add lines 2, 3 & 4)		13.02
6. Pressure required at highest fixture (Note: 20 PSI for a Flush Tank Water Closet and 25 PSI for a Flush Valve Water Closet)		30
7. Pressure available for Friction Loss (line1-line 5-line 6)		5.98
8. Total developed length of run (Note: Add an addition 25% of total pipe length to account for equivalent length of fittings and vales).		125

FRICTION LOSS CALCULATION

from line 7 5.98 / from line 8 125 PSI X 100 = 4.78 PSI/100 ft. (Use 3# / 100 ft. loss)

***NOTE** : IF YOU END UP WITH A (-) NEGATIVE VALUE, A BOOSTER PUMP WILL BE REQUIRED. IF SO, REFER TO BOOSTER PUMP CALCULATION SHEET.*

Cold Water Service Required: 2-1/2"

Water meter size required, based on above demand: N/A (Water Meter at Site Loop)

GAS LOAD SUMMARY -CC STUDENT SERVICES

SYSTEM PRESSURE: 8" W.C.
DOWNSTREAM OF GAS PRESSURE REGULATOR

TDL FROM GAS METER OR REGULATING VALVE TO THE FURTHEST EQMT: 200 FT.

DESCRIPTION	CFH
BOILER B-1 (HVAC EQUIPMENT)	1750
BOILER B-2 (HVAC EQUIPMENT)	1750
GAS WATER HEATER	120
TOTAL GAS DEMAND	3620

PLUMBING FIXTURE SPECIFICATION & CONNECTION SCHEDULE

ADA	SYMBOL	FIXTURE	FIXTURE MANUFACTURER AND MODEL No.	FAUCET OR VALVE MANUFACTURER AND MODEL No.	TRIM MANUFACTURER AND MODEL No.	REMARKS	VENT	WASTE		COLD WATER		HOT WATER	
								BRANCH	OUTLET	BRANCH	OUTLET	BRANCH	OUTLET
	WC-1	WATER CLOSET WALL MOUNTED FLUSH VALVE	"KOHLER" KINGSTON 1.28, NO. K-4325, WALL HUNG, VITREOUS CHINA, ELONGATED, SIPHON JET ACTION, 1-1/2" TOP SPUD. 1.28 GPF	"SLOAN" ROYAL 111 HET 1.28, ADA COMPLIANT, 1.28 GPF (MANUAL)	SEAT: "CHURCH" MODEL 295SSCT OR "BEMIS" MODEL 1955SSCT. PROVIDE WITH SELF- SUSTAINING CONCEALED CHECK HINGES, ONE PIECE STAINLESS STEEL POST HINGES, WHITE COLOR. CARRIER: "JAY R. SMITH" 100 OR 200 SERIES OR 500# RATED "ZURN" Z1201 AND Z1202 SERIES PROVIDE REAR SUPPORT LUG AND ANCHOR FOOT ASSEMBLY.	MOUNT AT HEIGHT INDICATED ON ARCHITECTURAL DRAWINGS. WHERE USED FOR CBC ACCESSIBLE WATER CLOSETS, THE FLUSH VALVE HANDLE SHALL BE MOUNTED ON THE WIDE SIDE OF THE WATER CLOSET ENCLOSURE.	2"	4"	4"	1-1/4"	1"	--	--
	WC-2	WATER CLOSET WALL MOUNTED FLUSH VALVE ACCESSIBLE	"KOHLER" KINGSTON 1.28, NO. K-4325, WALL HUNG, VITREOUS CHINA, ELONGATED, SIPHON JET ACTION, 1-1/2" TOP SPUD. 1.28 GPF	"SLOAN" ROYAL 111 HET 1.28, ADA COMPLIANT, 1.28 GPF (MANUAL)	SEAT: "CHURCH" MODEL 295SSCT OR "BEMIS" MODEL 1955SSCT. PROVIDE WITH SELF- SUSTAINING CONCEALED CHECK HINGES, ONE PIECE STAINLESS STEEL POST HINGES, WHITE COLOR. CARRIER: "JAY R. SMITH" 100 OR 200 SERIES OR 500# RATED "ZURN" Z1201 AND Z1202 SERIES PROVIDE REAR SUPPORT LUG AND ANCHOR FOOT ASSEMBLY.	MOUNT AT HEIGHT INDICATED ON ARCHITECTURAL DRAWINGS. WHERE USED FOR CBC ACCESSIBLE WATER CLOSETS, THE FLUSH VALVE HANDLE SHALL BE MOUNTED ON THE WIDE SIDE OF THE WATER CLOSET ENCLOSURE.	2"	4"	4"	1-1/4"	1"	--	--
	UR-1	URINAL WALL MOUNTED FLUSH VALVE ACCESSIBLE	"KOHLER" BARDON 1/8 GPF NO. K-4991-ET WALL HUNG, VITREOUS CHINA, SIPHON JET ACTION. 3/4" TOP SPUD, 2" THREADED OUTLET, 0.125 GPF	"SLOAN" ROYAL HEU 186-0.125, 0.125 GPF (MANUAL)	CARRIER: "JAY R. SMITH" 637 SERIES OR "ZURN" Z1222	MOUNT AT HEIGHT INDICATED ON ARCHITECTURAL DRAWINGS.	1-1/2"	2"	2"	1"	3/4"	--	--
	L-1	LAVATORY WALL MOUNTED HOT AND COLD WATER STD/ACCESSIBLE	"KOHLER" KINGSTON NO. K-2005 WALL HUNG, VITREOUS CHINA WITH CONTOURED BACK AND SIDE SPLASH SHIELDS, FRONT OVERFLOW, CONCEALED ARM RECESS, 4" CENTERS, 21-1/4" x 18-1/8" D SHAPED BOWL.	"CHICAGO" 3600-E2805AB FAUCET, PUSH LEVER WITH AERATOR WITH 0.5 GPM FLOW RATE. WITH VANDAL RESISTANT ECONO-FLO SPRAY OUTLET. WITH IPS CONNECTIONS, ADA COMPLIANT.	ADA COMPLIANT. INSTALL INSULATION PROTECTION FOR EXPOSED PIPES AND FITTINGS UNDER FIXTURE LAVATORY GRID DRAIN WITH 1-1/4" OFFSET TAILPIECE, INTEGRAL PERFORATED GRID NO. 7723.018, CHROME FINISH. MOUNT P-TRAP FLUSH TO WALL. CARRIER: "JAY R. SMITH" 0700 OR ZURN Z1231	MOUNT AT HEIGHT INDICATED ON ARCHITECTURAL DRAWINGS. PROVIDE CONCEALED ARMS AND FLOOR SUPPORT, WITH FEET OF SUPPORT SECURELY ANCHORED TO FLOOR. IN ADDITION ANCHOR TOP OF SUPPORT TO WALL CONSTRUCTION.	1-1/2"	2"	1-1/2"	3/4"	1/2"	3/4"	1/2"
	S-1	SINK COUNTER MOUNTED HOT AND COLD WATER	"JUST" SL-ADA-2131-A-GR 21" FRONT TO BACK, 31" WIDE x 6" DEPTH OVERALL. 18 GAUGE STAINLESS STEEL, LEDGE BACK WITH SELF- RIM. PROVIDE 3 HOLES FAUCET HOLE. PROVIDE CENTER REAR DRAIN LOCATION, FACTORY ADHERED VANDAL RESISTANT BACKING PLATE AT FAUCET, AND SLOT AT FAUCET FOR VANDAL RESISTANT BACKING PLATE SHALL BE 14 GA SS FORMED AS CHANNEL.	"CHICAGO" ECAST MODEL 201-AE35-317XKABCP GOOSENECK FAUCET, 1.5 GPM VANDAL RESISTANT, FLOW AERATOR AND RIGID/SWING FAUCET, 4" CENTER. PROVIDE VANDAL RESISTANT PIN IN FAUCET, ARRANGED TO MATE WITH SLOT IN SINK.	"JUST" J-ADA-35-SSF-VR DRAIN SYSTEM. INSTALL P-TRAP FLUSH TO WALL. "JUST" JTS-150 P-TRAP, SWIVEL STYLE WITH CLEAN OUT ADA COMPLIANT. INSTALL INSULATION PROTECTION FOR EXPOSED PIPES AND FITTINGS UNDER FIXTURE		1-1/2"	2"	1-1/2"	3/4"	1/2"	3/4"	1/2"
	S-2	SINK COUNTER MOUNTED HOT AND COLD WATER	"JUST" SL-ADA-2125-A-GR 21" FRONT TO BACK, 25" WIDE x 6" DEPTH OVERALL. 18 GAUGE STAINLESS STEEL, LEDGE BACK WITH SELF- RIM. PROVIDE SINGLE FAUCET HOLE. PROVIDE CENTER REAR DRAIN LOCATION, FACTORY ADHERED VANDAL RESISTANT BACKING PLATE AT FAUCET, AND SLOT AT FAUCET FOR VANDAL RESISTANT BACKING PLATE SHALL BE 14 GA SS FORMED AS CHANNEL.	"CHICAGO" ECAST MODEL 201-AE35-317XKABCP GOOSENECK FAUCET, 1.5 GPM VANDAL RESISTANT, FLOW AERATOR AND RIGID/SWING FAUCET, 4" CENTER. PROVIDE VANDAL RESISTANT PIN IN FAUCET, ARRANGED TO MATE WITH SLOT IN SINK.	"JUST" J-ADA-35-SSF-VR DRAIN SYSTEM. INSTALL P-TRAP FLUSH TO WALL. "JUST" JTS-150 P-TRAP, SWIVEL STYLE WITH CLEAN OUT ADA COMPLIANT. INSTALL INSULATION PROTECTION FOR EXPOSED PIPES AND FITTINGS UNDER FIXTURE	"INSINK-ERATOR" BADGER 1 1/3 HP, 120 HP, 60 HZ, 6.3 AMP (AVG) WEIGHT 13 LBS.	1-1/2"	2"	1-1/2"	3/4"	1/2"	3/4"	1/2"
	SS-1	SERVICE SINK FLOOR MOUNTED HOT AND COLD WATER	"ACORN TCR-28, TERRAZO-WARE, 28"X28"X12" DEEP FLOOR MOUNTED, TERRAZZO WITH STAINLESS STEEL CAP. UNIT SHALL INCLUDE MODEL KH36 HOSE WITH WALL HANGER, KMH MOP HANGER WITH 3 SPRING LOADED GRIP ON A STAINLESS STEEL BRACKET.	"CHICAGO" MODEL 897-CP WALL MOUNTED POLISHED CHROME FAUCET WITH VACUUM BREAKER, ADJUSTABLE TOP BRACE AND 3/4" MALE THREADED HOSE OUTLET.		AS PART OF ROUGH-IN FOR FAUCET, PROVIDE SUITABLE BLOCKING FOR TOP BRACE. PROVIDE CAP WITH FLANGE ON. SIDES ADJACENT TO WALLS.	2"	3"	3"	3/4"	3/4"	3/4"	3/4"
	DF-1	DRINKING FOUNTAIN WALL MOUNTED STD/ACCESSIBLE DUAL HEIGHT	"HAWS" H1117.8 HI-LO WALL MTD BARRIER-FREE WATER COOLER, ADA COMPLIANT, 14 GAUGE 304 SS, 8 GPH, 115 V, 60 HZ, 5 FLA. PROVIDE WITH HCR8 WATER CHILLER AND MTGFR.17 IN-WALL MOUNTING FRAME.	INTEGRAL	WITH P-TRAP	SURPORT SYSTEM: MODEL 6717 MOUNTING PLATE AND 6800 SUPPORT CARRIER. PROVIDE MANUFACTURER'S INTERNAL SUPPORT SYSTEM. WHERE INSTALLED ON CONCRETE OR CMU WALL, PROVIDE TWO MODEL 6700 MOUNTING PLATES & INSTALL WITH ONE PLATE ON EACH SIDE OF WALL. SET AT HEIGHT INDICATED ON ARCH DWGS.	1-1/2"	2"	1-1/2"	1/2"	1/2"	-	-
	HB-1	HOSE BIBB	<u>INTERIOR WALL MOUNTED - ACORN MODEL 8121CP-LF</u>	WITH INTEGRAL VACUUM BREAKER PROTECTED, CARTRIDGE OPERATED HOSE VALVE WITH LOCK SHIELD BONNET AND REMOVABLE KEY HANDLE.		SET HEIGHT AT 18" ABOVE FINISHED FLOOR	-	-	-	3/4"	3/4"	-	-
	HB-2	HOSE BIBB	<u>EXTERIOR WALL MOUNTED - ACORN MODEL 8121CR-LF</u>	WITH INTEGRAL VACUUM BREAKER PROTECTED, CARTRIDGE OPERATED HOSE VALVE WITH LOCK SHIELD BONNET AND REMOVABLE KEY HANDLE.		SET HEIGHT AT 18" ABOVE FINISHED FLOOR	-	-	-	3/4"	3/4"	-	-
	WH-1	WALL HYDRANT	<u>RECESSED WALL HYDRANT - ACORN MODEL 8151CR-LF</u>	RECESSED WALL HOSE BOX WITH DOOR AND VACUUM BREAKER. ONE PIECE BOX WITH FLANGE, VANDAL RESISTANT SCREWS WITH LOCKABLE DOOR AND LOOSE KEY HANDLE.		SET HEIGHT AT 18" ABOVE FINISHED FLOOR	-	-	-	3/4"	3/4"	-	-
	TP-1	TRAP PRIMER	MIFAB "M-500" SERIES, PRECISION PLUMBING PRODUCTS "PRIME-RITE" OR SIOUX CHIEF MANUFACTURING CO. "PRIME PERFECT"				-	-	-	1/2"	1/2"	-	-
	FD-1	FLOOR DRAIN	<u>GENERAL SERVICE FD - JR SMITH MODEL 2005-Y, OR EQUAL,</u> WITH TYPE "A" STRAINER FOR EXPOSED CONCRETE AND TYPE "B" STRAINER FOR TILE FLOOR. PROVIDE NICKLE BRONZE TRIM.				2"	2"	2"	-	-	-	-
	RR-1	ROOF RECEPTOR	JR SMITH #3960 CAST IRON RECEPTOR WITH WATER DAM AND DOME BOTTOM STRAINER, NO-HUB OUTLET, SECURED WITH VANDAL PROOF SCREWS.				2"	2"	2"	-	-	-	-
	RD-1	ROOF DRAIN	JAY R. SMITH MODEL 1010Y OR EQUAL	SECURE DECK PLATE TO ROOF. PROVIDE 6" HIGH CAST IRON VANDAL PROOF DOME TYPE STRAINER INLET AND CLAMPING COLLAR. PROVIDE WITH EXTENSION AS REQUIRED TO SUIT JOB CONDITIONS.			-	SEE PLAN	SEE PLAN	-	-	-	-
	OD-1	OVERFLOW DRAIN	JAY R. SMITH MODEL 1080Y WITH 2" HIGH DAM OR EQUAL	SECURE DECK PLATE TO ROOF. PROVIDE 6" HIGH CAST IRON VANDAL PROOF DOME TYPE STRAINER INLET AND CLAMPING COLLAR. PROVIDE WITH 2" OR 4" WATER DAM AS REQUIRED TO SUIT JOB CONDITIONS. PROVIDE WITH EXTENSION AS REQUIRED TO SUIT JOB CONDITIONS.			-	SEE PLAN	SEE PLAN	-	-	-	-

GAS PRESSURE REGULATOR SCHEDULE

UNIT	LOCATION	QTY	"MFR" MODEL NO.	CAPACITY (CFH)	INLET PRESSURE	OUTLET PRESSURE	TOTAL DEVELOPED LENGTH	NOTES
GPR 1	OUTSIDE OF FOOD STOR. RM 136	1	PIETRO FIORENTINI 30153OPD - 1 1/4"	3620	5-PSI	8" W.C.	200 FEET	W/OVER PRESSURE DEVICE

1. CONFORMS WITH CSA ANSI Z21.80

GAS WATER HEATER SCHEDULE

UNIT	LOCATION	"MFR" MODEL NO.	QTY.	STORAGE CAPACITY GALLONS	MBTU INPUT	RECOVERY GALLONS @ 100 F RISE	TEMP SETTING	GAS CONN	VOLTAGE	WEIGHT (FULL)	PIPING DETAIL	MOUNTING DETAIL	NOTES
GWH 1	JAN. 209	LOCHINVAR CLN 120 080	1	81	120	115	125	3/4"	120V/1	1,300	5 P7-01	10 P7-01	80% THERMAL EFF.,MEETS SCAQMD RULE 1146.2, DIMENSION: 64"HIGH x 28"DIA., 6" DIA. TYPE B FLUE

COMBUSTION AIR REQURIED PER CPC 506.4: 1 sq. in. / 3,000 BTU, 120,000 BTU / 3,000 = 40 sq. in. 40 sq.in. / 75% FREE AREA = 54 sq.in. REQUIRED. 8"x8" DUCT PROVIDED (64 sq.in.). REFER TO MECHANICAL DRAWING M0-2.

EARTHQUAKE VALVE SCHEDULE

UNIT	LOCATION	QTY	"MFR" MODEL NO.	CAPACITY (CFH)	INLET PRESSURE	MAX. PRESSURE	NOTES
EQV 1	OUTSIDE OF FOOD STOR. RM 136	1	PACIFIC SEISMIC PRODUCTS 1-1/2" MODEL 303(7)	3,989	5-PSI	7.0 PSI	CA-DSA NO. 13-05

EXPANSION TANK SCHEDULE

UNIT	LOCATION	QTY	"MFR" MODEL NO.	VOLUME	MAX. WORKING PRESSURE	OPER. WEIGHT	DETAIL	NOTES
ET 1	JAN. 209	1	AMTROL THERM-X-TROL ST-5C	2.0	150 PSI	10 LBS.	5 P7-01	--

CIRCULATING PUMP SCHEDULE

UNIT	LOCATION	QTY	"MFR" MODEL NO.	GPM	FT OF HEAD	HP	VOLT / PH / HZ	CONTROLS	OPER. WEIGHT	NOTES
CP 1	JAN. 209	1	BELL & GOSSETT NBF-25	5	10	1/25	115 / 1 / 60HZ	7-DAY/24-HR TIME CLOCK TC-1 W/ AQUASTAT AQS-3/4	11 LBS	

BACKFLOW PREVENTER

MARK	LOCATION	MANUFACTURER AND MODEL NO.	EQUIPMENT	QTY.	SIZE	DIMENSIONS	WEIGHT (LBS)	REMARKS
RPBFP 1	JAN 209	WATTS 009QT-S	REDUCED PRESSURE ZONE	1	1-1/4"	21-13/16"	15	

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-119686 INC:
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DATE: 10/14/2019

DIVISION OF THE STATE ARCHITECT
WELLS FARGO CENTER - SOUTH TOWER
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ENGINEERING CONSULTANTS, INC.
LONG BEACH, CALIFORNIA
RH - TS/SL/DV 170822.00
PM - DESIGN TEAM PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER V. MERCURIO
M 34011
EXPIRES 3/30/20
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED: 08/16/19
consultant

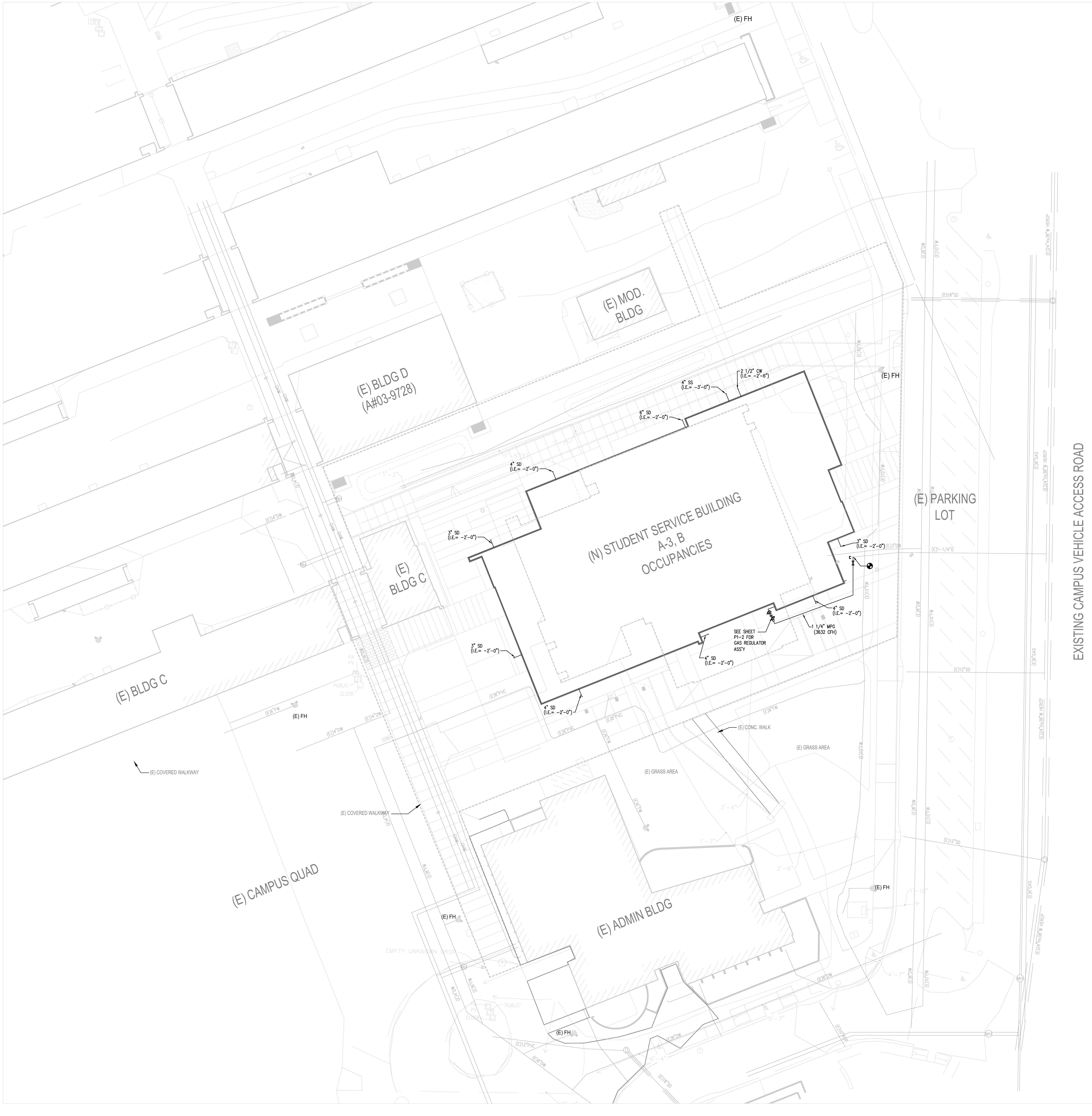
COMPTON COLLEGE STUDENT SERVICES BLDG.

COMPTON COMMUNITY COLLEGE DISTRICT
1111 E. ARTESIA BLVD.
COMPTON, CA 90221
owner

tBP project number: 20987.00
file name: CECI_COMPTON CC STUDENT SERVICES_MP18_CENTRAL.RVT
drawn by: CECI checked by: CM
date: 9.03.2019
rev: date: description:

drawing title:
PLUMBING SCHEDULES

drawing no.:
P0-2



GENERAL NOTES:

1. CONTRACTOR SHALL PERFORM FIELD INVESTIGATION OF EXISTING CONDITIONS BEFORE BEGINNING DEMOLITION WORKS AND SHALL INCLUDE IN THE BID THE COSTS OF FIELD INVESTIGATION, SELECTIVE DEMOLITION AND UTILITY LOCATION IN THE AREA OF DEMOLITION.
2. REMOVE ALL EXISTING PLUMBING FIXTURES, EQUIPMENT INSIDE THE EXISTING BUILDING.
3. REMOVE ALL EXISTING WATER, SEWER, STORM DRAIN AND FIRE LINES INCLUDING UNDERGROUND PIPING UP TO 5 FEET BEYOND BUILDING EXTERIOR.
4. REMOVE ALL EXISTING FIRE LINE UP INCLUDING UNDERGROUND PIPING UP TO 5 FEET BEYOND BUILDING EXTERIOR, SEE CIVIL DWG FOR CONT.
5. REMOVE ALL EXISTING GAS PIPING INCLUDING UNDERGROUND PIPING UP TO THE BUILDING EXTERIOR.

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tBP project number : 20987.00
file name:
drawn by: checked by:
date: 2.28.2019

Rev:	date:	description:

drawing title:
SITE PLAN

drawing no.:
P0-3

PLUMBING FIRST FLOOR PLAN - GRAVITY 1
SCALE 1/8" = 1'-0"

NORTH

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drawn by: CECI checked by: CM

date: 9.03.2019

rev:	date:	description:

drawing title:
PLUMBING FIRST FLOOR PLAN - GRAVITY

drawing no.:
P1-1

PLUMBING FIRST FLOOR PLAN - PRESSURE 1
SCALE 1/8" = 1'-0"
NORTH

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rev:	date:	description:

drawing title:
PLUMBING FIRST FLOOR PLAN - PRESSURE

drawing no.:
P1-2

PLUMBING SECOND FLOOR PLAN - GRAVITY (1)
SCALE 1/8" = 1'-0"
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drawing title:
PLUMBING SECOND FLOOR PLAN - GRAVITY

drawing no.:
P2-1

PLUMBING SECOND FLOOR PLAN - PRESSURE 1

SCALE 1/8" = 1'-0"

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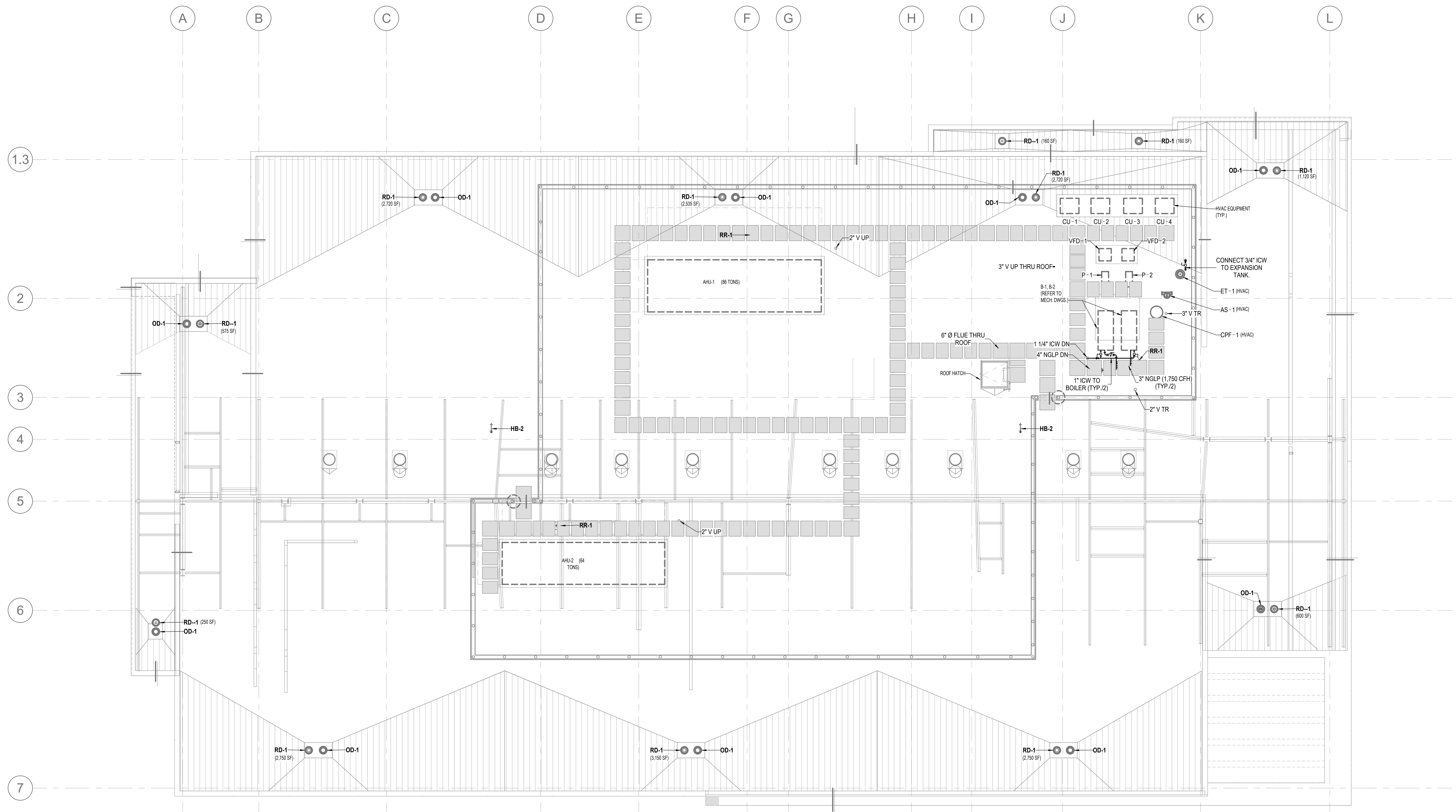
date: 9.03.2019

rev:	date:	description:

drawing title:
PLUMBING SECOND FLOOR PLAN - PRESSURE

drawing no.:
P2-2



PLUMBING ROOF PLAN 1

SCALE 1/8" = 1'-0"

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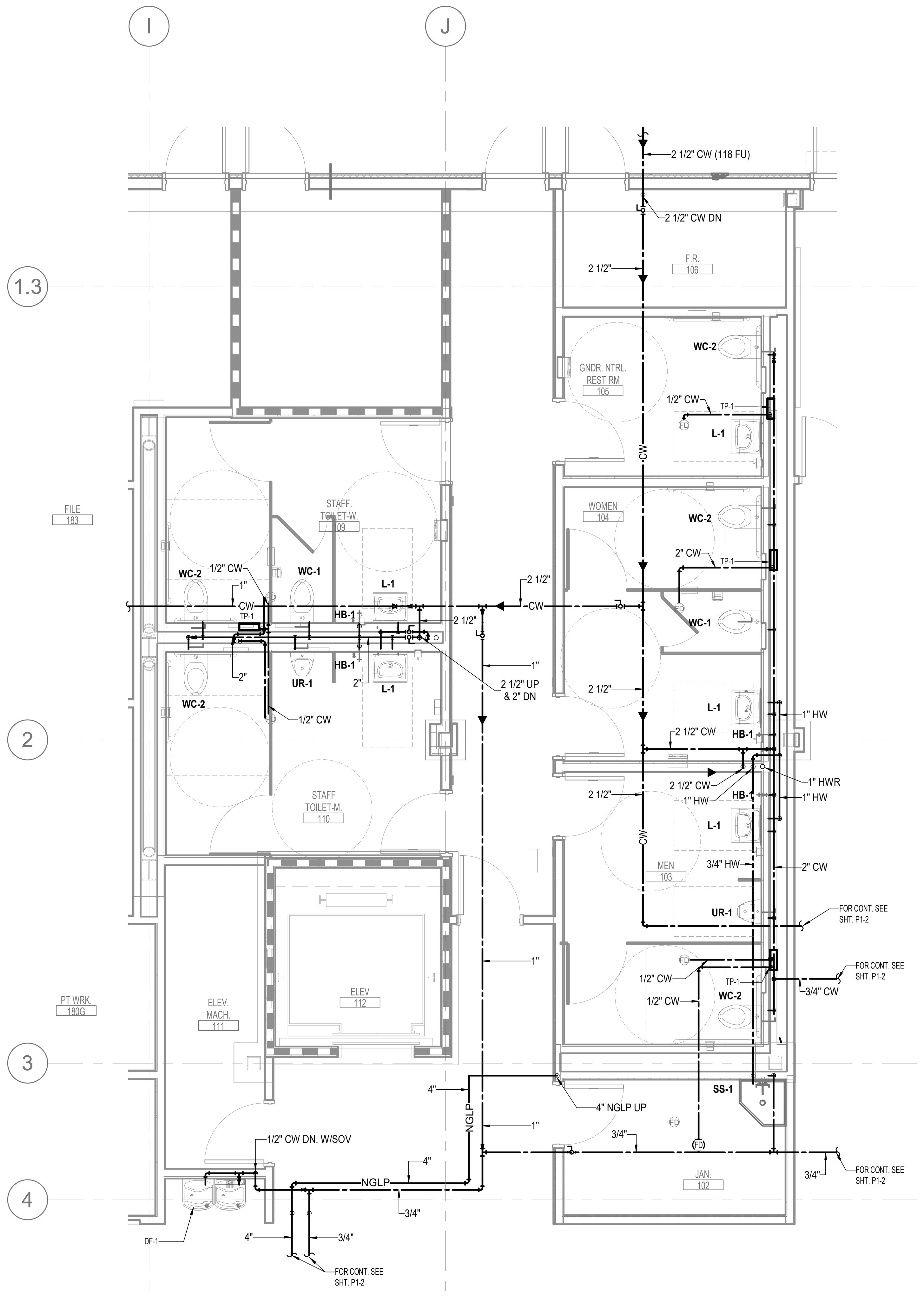
rev:	date:	description:

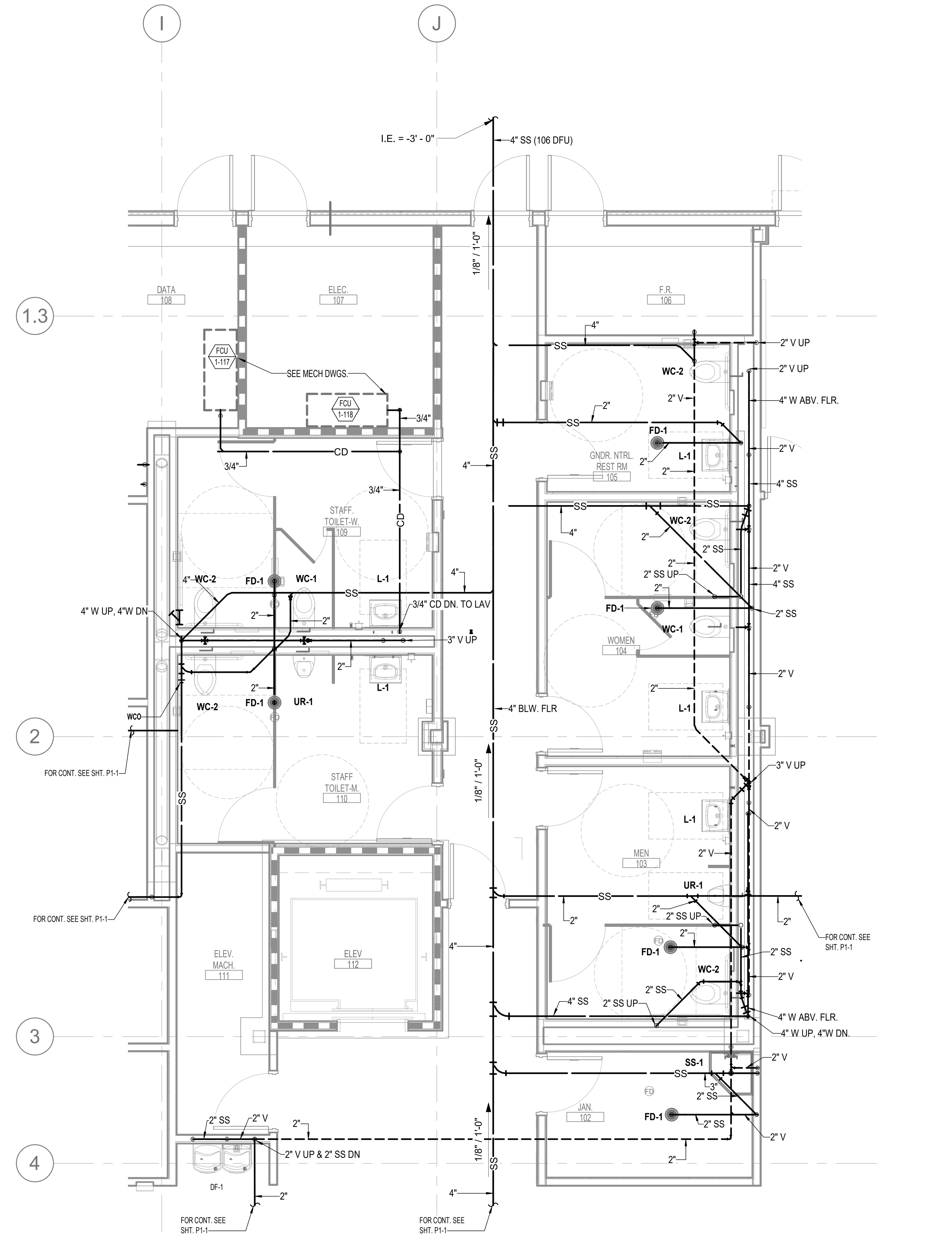
drawing title:
PLUMBING ROOF PLAN

drawing no.:
P2-3



ENLARGED FIRST FLOOR PLAN - RM 103, 104, 105, 109, 110 - PRESSURE (2)

SCALE 1/4" = 1'-0"



ENLARGED FIRST FLOOR PLAN - RM 103, 104, 105, 109, 110 - GRAVITY (1)

SCALE 1/4" = 1'-0"

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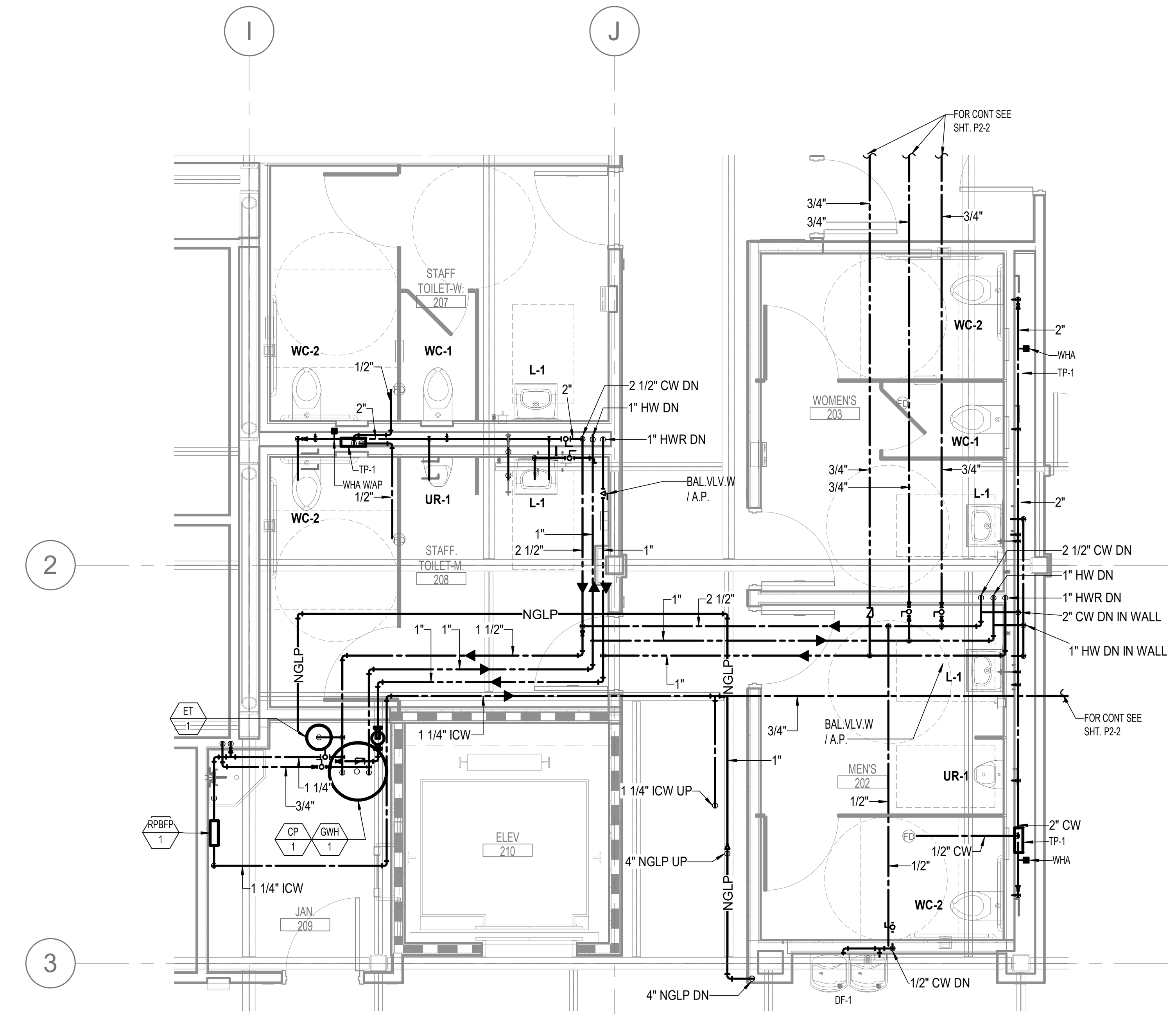
rev:	date:	description:

drawing title:

PLUMBING ENLARGED FLOOR PLANS

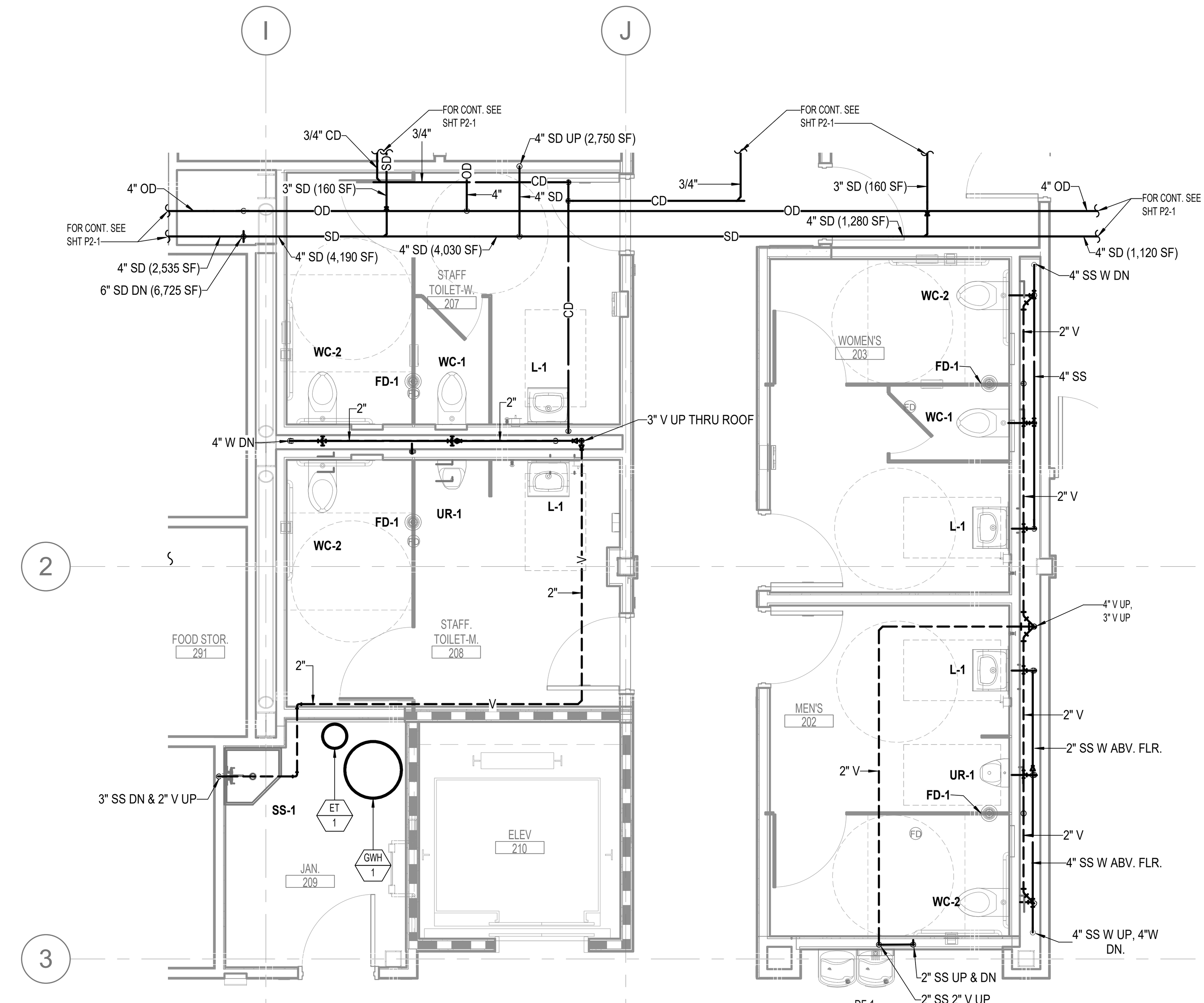
drawing no.:

P4-1



ENLARGED SECOND FLOOR PLAN - RM 202, 203, 207, 208, 209 - PRESSURE (2)

SCALE 1/4" = 1'-0"



ENLARGED SECOND FLOOR PLAN - RM 202, 203, 207, 208, 209 - GRAVITY (1)

SCALE 1/4" = 1'-0"

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PLUMBING ENLARGED FLOOR PLANS

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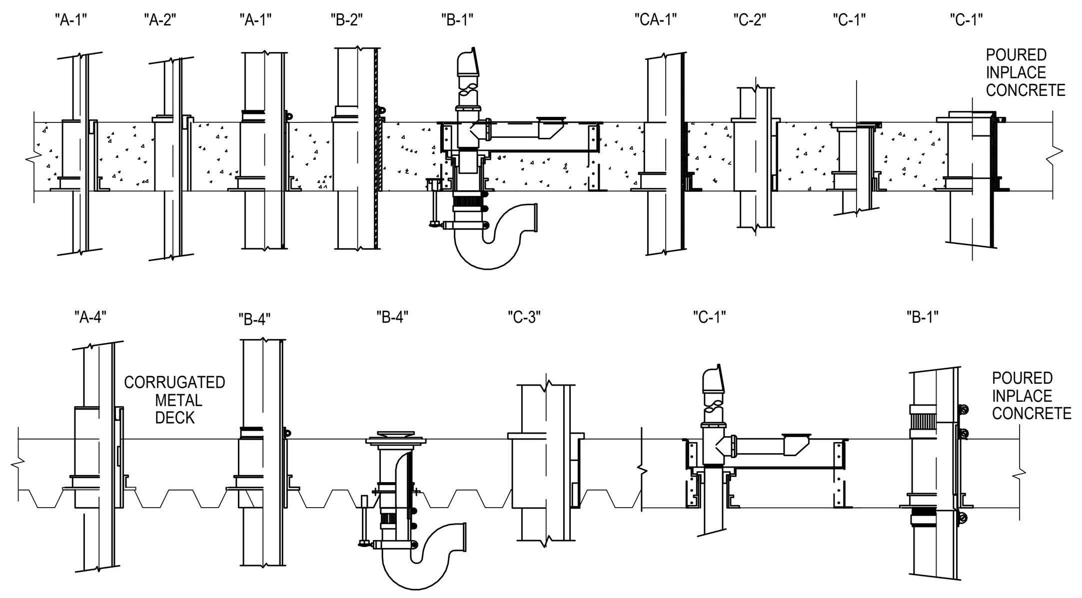
P4-2



SLEEVES AND FIRESTOPPING

USE PROSET "FIRESTOP PENETRATORS", U.L. OR WARNOCK HERSEY CLASSIFIED AND LISTED IN THE BUILDING MATERIALS DIRECTORY. TESTED IN ACCORDANCE WITH THE ASTM E-814, U.L. 1479 AND CSA/ULC CAN S-115 TES STANDARDS. USE FOR ALL APPLICABLE PIPE PENETRATIONS AND PLUMBING FIXTURE FLOOR OPENINGS THROUGH FIRE RATED FLOORS, WALLS OR FLOOR/CEILING ASSEMBLIES IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.

A. USE SYSTEM "A" PENETRATORS FOR WATER LINES, HEATING AND COOLING LINES, FIRE STANDPIPE AND SPRINKLER LINES, TEMPERATURE CONTROL, ACID WASTE GLASS OR DURION PIPE AND ELECTRIC AND COMMUNICATION CONDUIT PENETRATING FLOORS OR WALLS.

B. USE SYSTEM "B" PENETRATORS FOR CAST IRON OR COPPER DWV PIPES FOR STACKS AND DRAINS PENETRATING FLOORS OR WALLS.

C. USE SYSTEM "C" PENETRATORS FOR PLASTIC DWV PIPES FOR STACKS AND DRAINS PENETRATING FLOORS OR WALLS.

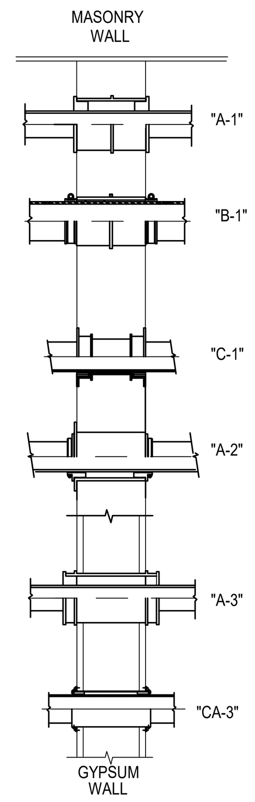
CA. USE SYSTEM "CA" PENETRATORS FOR POLYPROPYLENE ACID WASTE PIPE PENETRATING FLOORS OR WALLS.

1. USE CAST-IN-COUPLING PENETRATORS FOR POURED-IN-PLACE CONCRETE ON STEEL OR WOOD FORMS IN FLOORS OR WALLS.

2. USE C.H. PVC OR METAL COUPLING PENETRATORS FOR CORED HOLES THROUGH PRECAST OR EXISTING CONCRETE IN FLOORS OR WALLS.

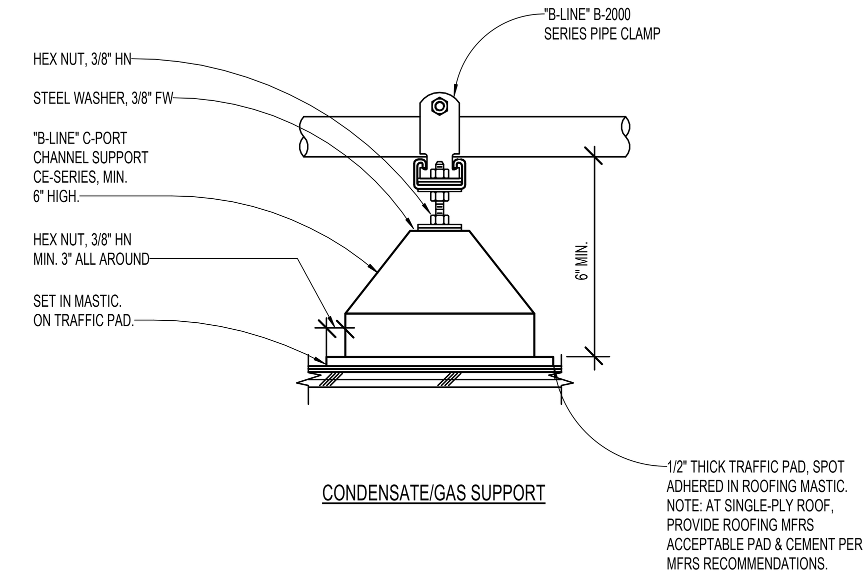
3. USE P-90 WALL SLEEVE PENETRAORS FOR PIPES PASSING THROUGH GYPSUM WALLS OR FLOOR/CEILING ASSEMBLIES.

4. USE CM METAL OR PVC SLIP FLANGE CM COUPLING FOR POURED-IN-PLACE CONCRETE ON CORRUGATED METAL DECK.



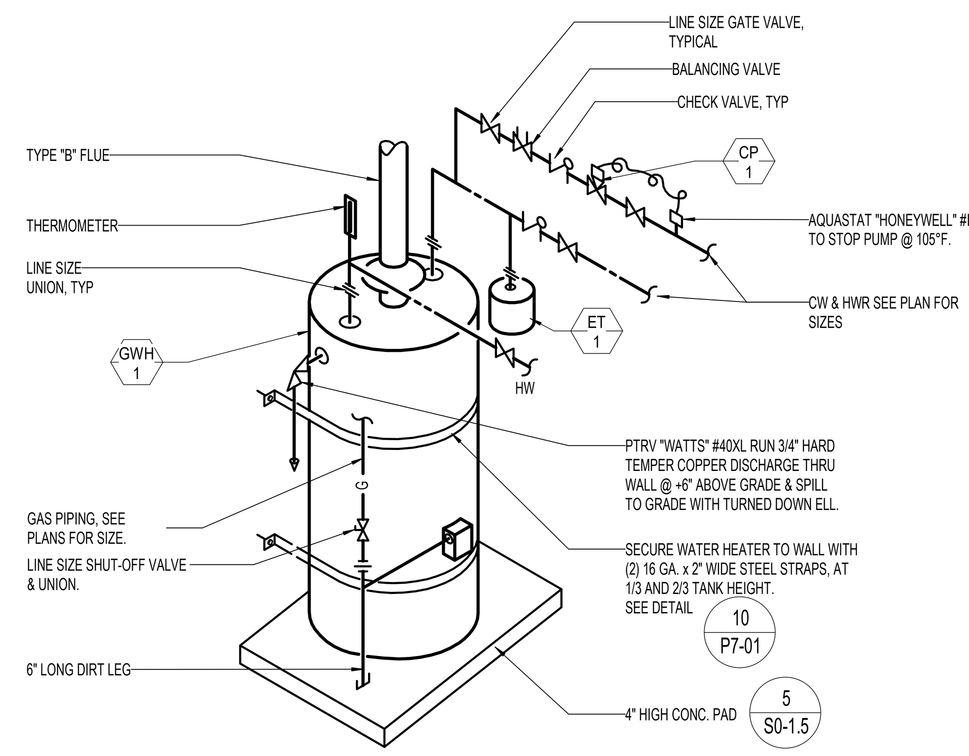
NOTE:
PENETRATIONS IN WALLS, FLOORS OR CEILINGS REQUIRING PROTECTED OPENINGS SHALL BE FIRE-STOPPED. FIRE STOPPING SHALL BE OF AN APPROVED MATERIAL; SECURELY INSTALLED AND CAPABLE OF MAINTAINING ITS INTEGRITY WHEN SUBJECTED TO THE TIME TEMPERATURE CURVE OF SFM STANDARD 12-43-3 AND 12-43-1. MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE MADE AVAILABLE TO THE INSPECTION AUTHORITY AND KEPT AT THE JOB SITE.

8 / P7-1 FIRESTOP PENETRATIONS
SCALE: NTS

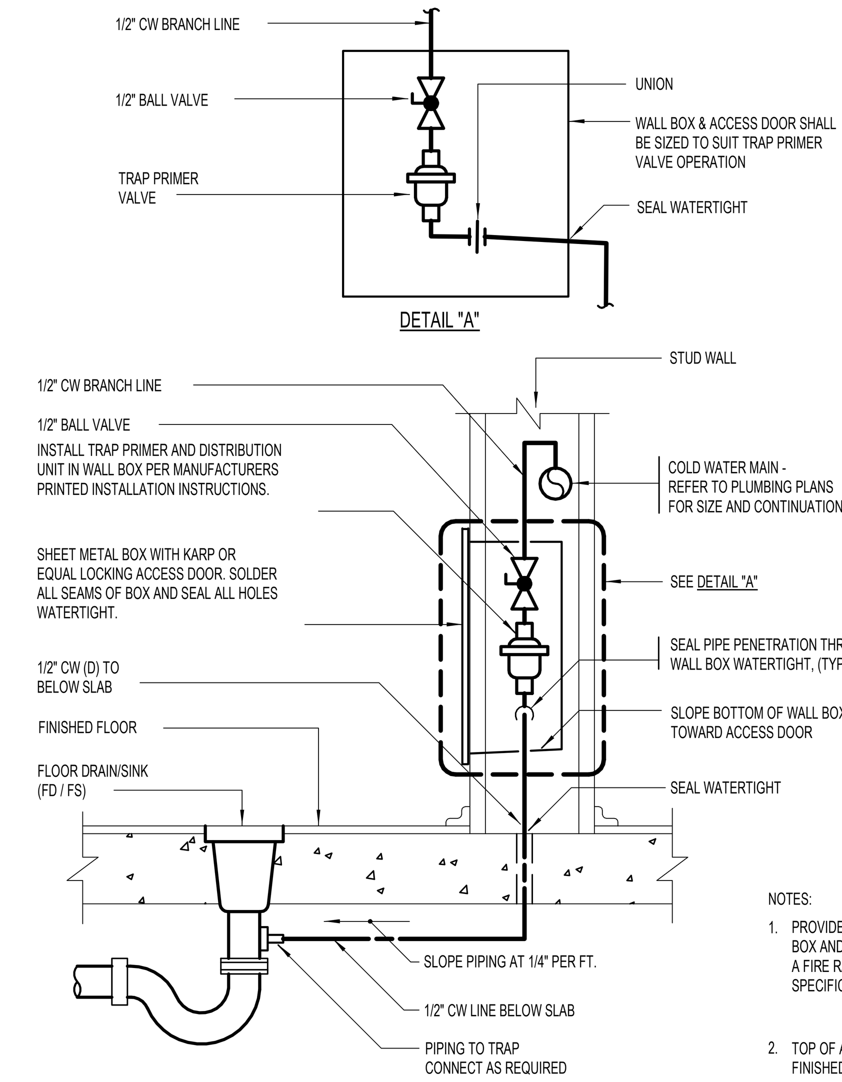


CONDENSATE/GAS SUPPORT

4 / P7-1 PIPE ON ROOF MOUNTING DETAIL
SCALE: NTS



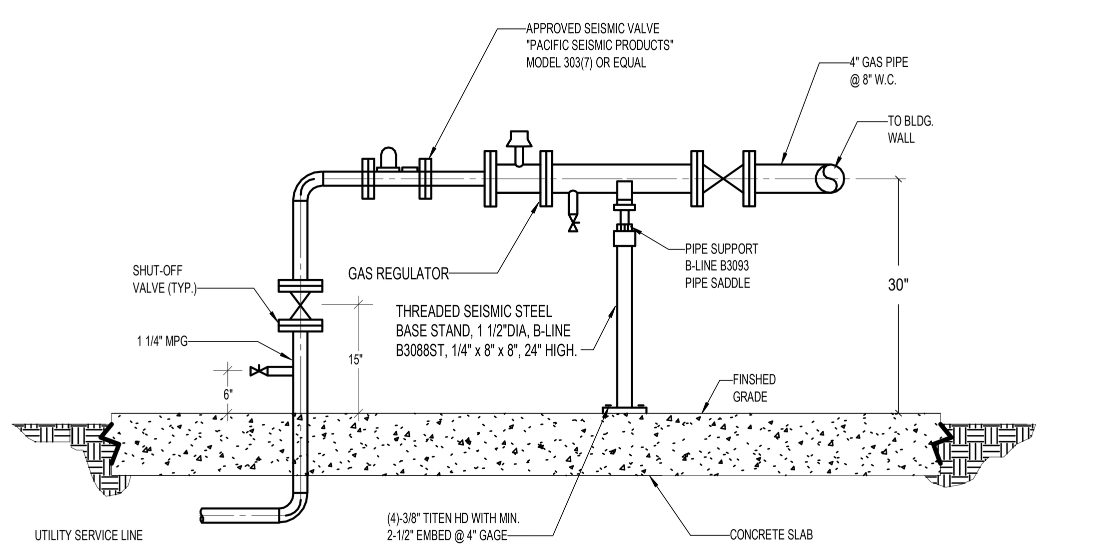
5 / P7-1 GAS WATER HEATER
SCALE: NTS



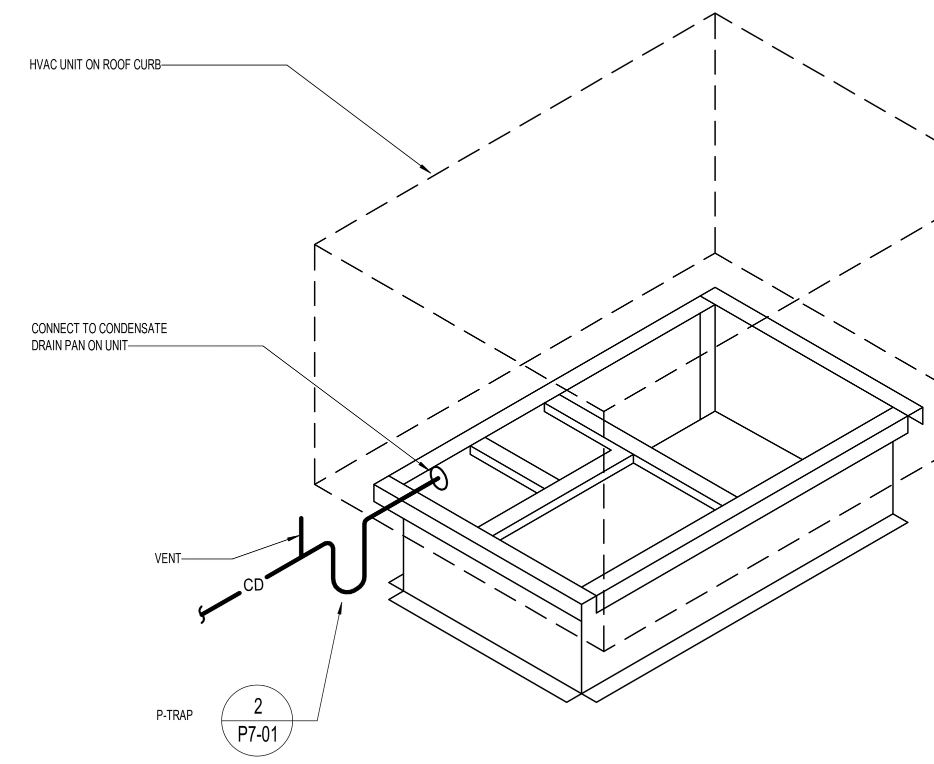
NOTES:

1. PROVIDE UL APPROVED FIRE WRAP AROUND SHEET METAL BOX AND A FIRE RATED ACCESS DOOR WHEN INSTALLED IN A FIRE RATED ASSEMBLY. FOR CONTINUATION REFER TO SPECIFICATIONS SECTION 22 00 50.
2. TOP OF ACCESS DOOR SHALL BE A MAXIMUM OF 28" ABOVE FINISHED FLOOR.
3. CONTRACTOR SHALL CONFIRM FINAL LOCATION OF TRAP PRIMER/ACCESS DOOR WITH THE PROJECT ARCHITECT AND PROVIDE ELEVATION PLANS INDICATING ACCESS DOOR LOCATIONS WITH THEIR FINAL AS-BUILT/SHOP DRAWING SUBMITTAL.

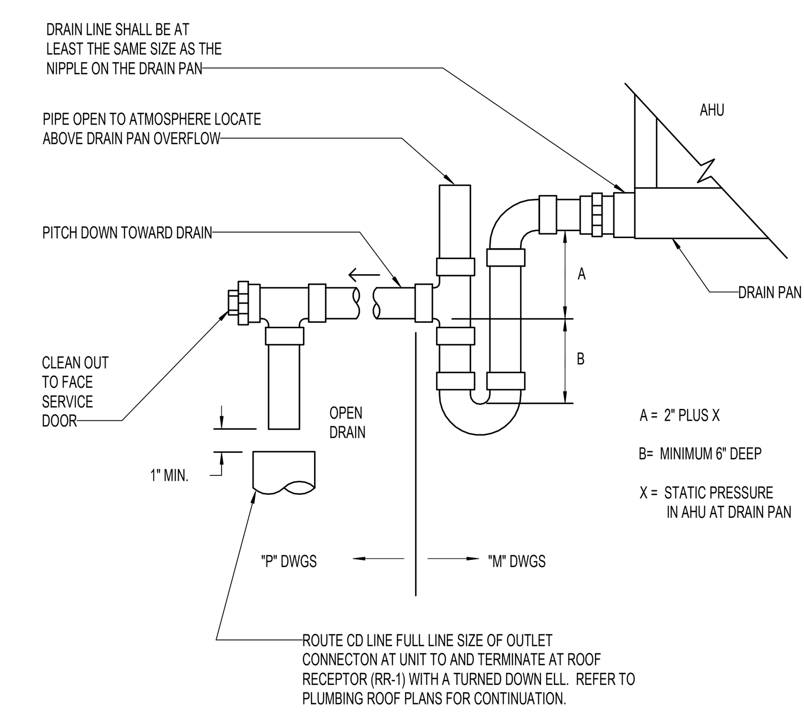
1 / P7-1 TRAP PRIMER TO FLOOR DRAIN
SCALE: NTS



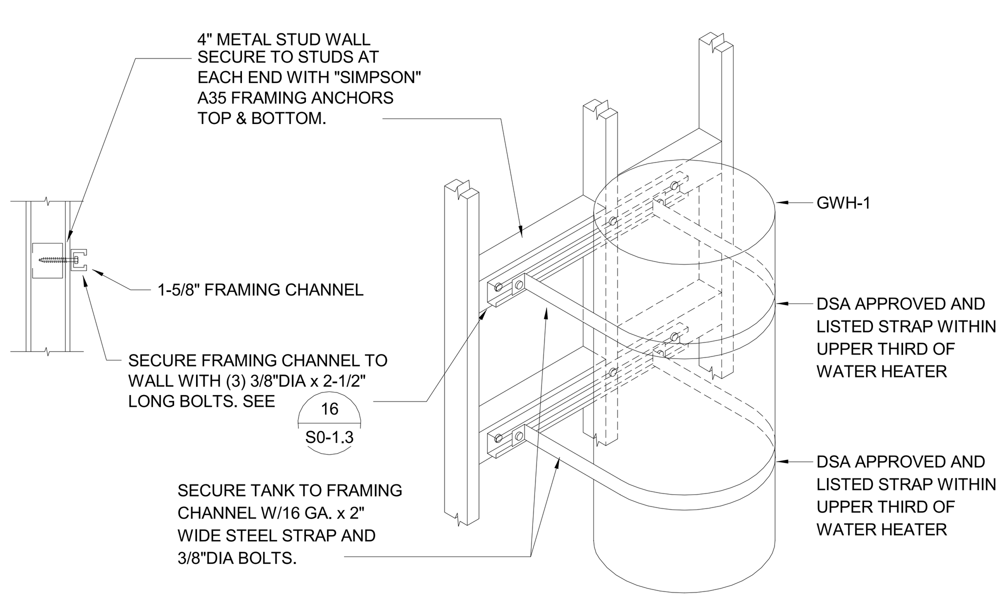
9 / P7-1 GAS REGULATOR AND SEISMIC VALVE
SCALE: NTS



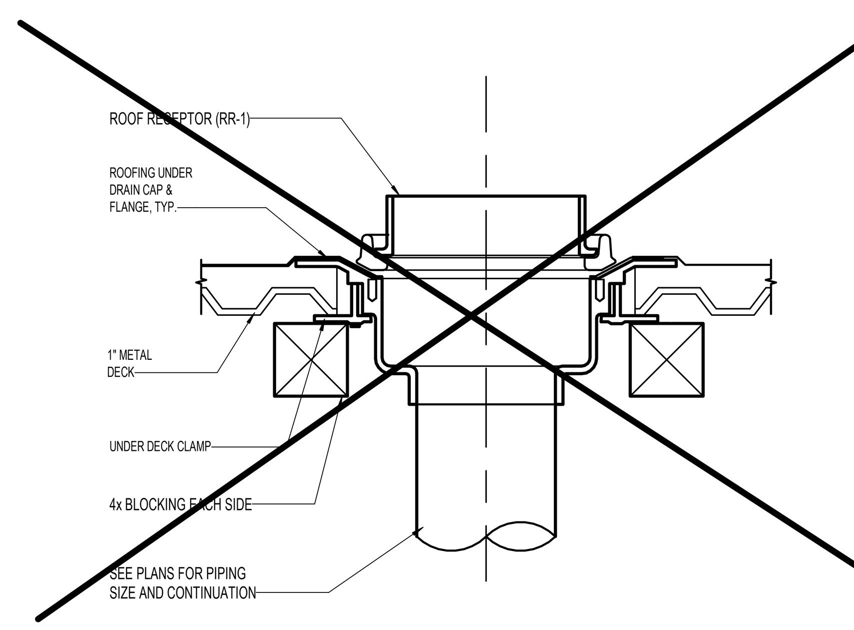
6 / P7-1 PLUMBING PIPING AT AC UNIT
SCALE: NTS



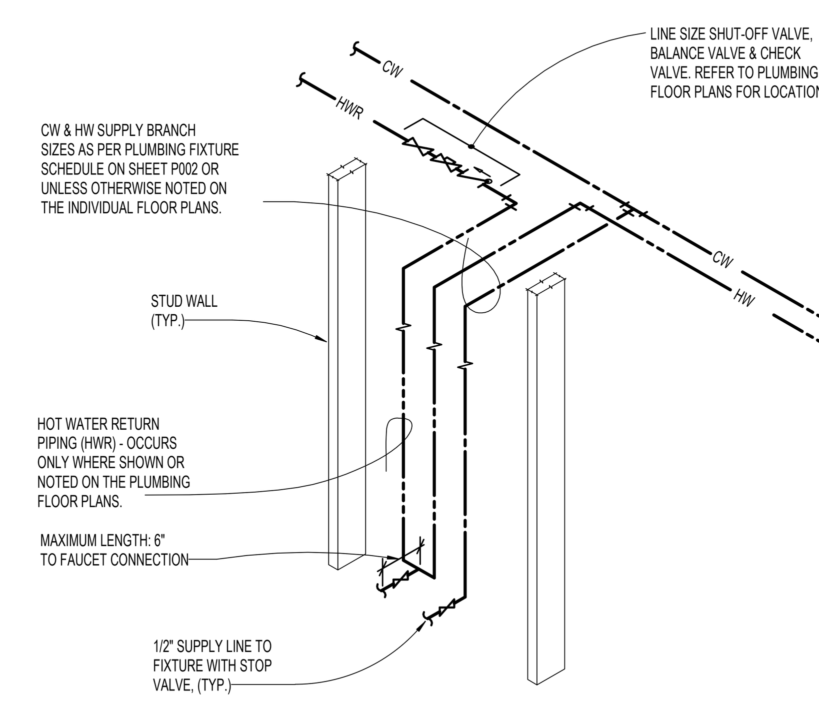
2 / P7-1 CONDENSATE DRAIN TRAP AT HVAC EQUIPMENT
SCALE: NTS



10 / P7-1 WATER HEATER SUPPORT
SCALE: NTS



7 / P7-1 ROOF RECEPTOR
SCALE: NTS



3 / P7-1 HOT WATER RETURN PIPE DETAIL
SCALE: NTS

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consultant

COMPTON COLLEGE STUDENT SERVICES BLDG.

COMPTON COMMUNITY COLLEGE DISTRICT
1111 E. ARTESIA BLVD.
COMPTON, CA 90221

owner

tBP project number: 20987.00
file name: CECI_COMPTON CC STUDENT SERVICES_MP18_CENTRAL.RVT
drawn by: CECI checked by: CM
date: 9.03.2019

rev:	date:	description:

drawing title:
PLUMBING DETAILS

drawing no.:
P7-1

BUILDING DATA

PROJECT OWNER:	COMPTON COMMUNITY COLLEGE DISTRICT 1111 E. ARTESIA BLVD. COMPTON, CA 90221
PROJECT DESCIPTION:	INSTALL NEW WET PIPE SPRINKLER SYSTEM IN NEW STUDENT SERVICES BUILDING
OVERALL BUILDING SIZE:	34,440 SF SCHOOL BUILDING
OCCUPANCY GROUP:	MIXED (A-3, B)
CONSTRUCTION TYPE:	TYPE II-B SPRINKLED STRUCTURAL FRAME: 0 HOURS INTERIOR NON-BEARING PARTITION 0 HOURS FLOORS AND ROOF: 0 HOURS
GROSS FLOOR AREAS:	NEW 1ST FLOOR 18,709 SF 2ND FLOOR 15,731 SF TOTAL 34,440 SF

SPRINKLER DESIGN CRITERIA: CLASSROOMS, COORIDORS

CLASSIFICATION OF OCCUPANCY: LIGHT HAZZARD
DESIGN DENSITY: 0.10 GPM/ SQ.FT.
DESIGN AREA MIN.: 1,500 SQ.FT.
AREA OF COVERAGE/ SP HEAD: 225 SQ.FT. MAX/ HEAD

SPRINKLER DESIGN CRITERIA: MECHANICAL, ELETRICAL, TELECOM, CUSTODIAL, STORAGE ROOMS
CLASSIFICATION OF OCCUPANCY: ORDINARY HAZZARD II
DESIGN DENSITY: 0.15 GPM/ SQ.FT.
DESIGN AREA MIN.: 1,500 SQ.FT.
AREA OF COVERAGE/ SP HEAD: 130 SQ.FT. MAX/ HEAD

GOVERNING CODES:

2016 BUILDING CODE (CBC)
2016 FIRE CODE (CFC)
NFPA 13 AUTOMARIC SPRINKLER SYSTEMS
NFPA 14 STANDPIPE SYSTEMS
NFPA 22/24 WATER TANKS FOR PRIVATE FIRE PROTECTION PRIVATE FIRE MAINS
NFPA 72 NATIONAL FIRE ALARM CODE
NFPA 80 FIRE DOORS AND OTHER OPENING PROTECTIVES

ABBREVIATIONS

(E)	EXISTING
(N)	NEW
ABBR	ABBREVIATION
AFF	ABOVE FINISHED FLOOR
AFSR	AUTOMATIC FIRE SPRINKLER RISER
BFV	BUTTERFLY VALVE
DCDA	DOUBLE CHECK DETECTOR ASSEMBLY
DI	DUCTILE IRON
DN	DOWN
FACP	FIRE ALARM CONTROL PANEL
FDC	FIRE DEPARTMENT CONNECTION
FH	FIRE HYDRANT
FW	FIRE WATER
PIV	POST INDICATOR VALVE
POC	POINT OF CONNECTION
PVC	POLYVINYL CHLORIDE
RN	RISER NIPPLE
SSP	STANDARD SPRAY PENDANT
SSU	STANDARD SPRAY UPRIGHT
UG	UNDERGROUND

FIRE PROTECTION NOTES

1 A LICENSED (C-16) CONTRACTOR SHALL ROUTE AND SUPPORT AUTOMATIC SPRINKLER SYSTEM PER REQUIREMENTS OF NFPA 13 (2016), CBC CHAPTER 9, NFPA 25 (2011) AND ANY OTHER APPLICABLE CODE PER AHJ.

2 EXISTING WORK DAMAGED OR CUT INTO DURING CONSTRUCTION SHALL BE PATCHED OR REPAIRED, PAINTED AND FINISHED TO MATCH EXISTING FINISHES.

3 NO HOLES SHALL BE DRILLED OR CUT IN OR THROUGH ANY STRUCTURAL ELEMENT WITHOUT WRITTEN APPROVAL OF THE ARCHITECT AND STRUCTURAL ENGINEER.

4 SEE SPECIFICATION SECTION 211000 FOR ADDITIONAL REQUIREMENTS.

5 ALL DEVICES AND COMPONENTS TO BE EITHER LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY FOR FIRE PROTECTION SERVICE OR APPROVED BY THE AUTHORITY HAVING JURISDICTION.

6 THE FIRE SPRINKLER SYSTEM SHALL BE MONITORED BY AN APPROVED LISTED CENTRAL MONITORING STATION.

7 A SPARE SPRINKLER CABINET SHALL BE INSTALLED NEAR THE RISER WITH THE QUANTITY OF SPARE SPRINKLERS REQUIED PER NFPA 13 SECTION 6.2.9.

8 PIPE SIZES SHOWN ON DRAWINGS ARE NOMINAL (NPS). LENGTHS OF PIPE ARE CENTER TO CENTER DIMENSIONS.

9 ITEMS SHOWN ON PLANS DESCRIBE GENERAL LAYOUT REQUIREMENTS, AND ARE NOT INTENDED TO SHOW A COMPLETE LAYOUT OF REQUIRED FIRE PROTECTION SYSTEM PIPING AND COMPONENTS. REFER TO ARCHITECTURAL, MECHANICAL AND PLUMBING SHEETS, FIRE PROTECTION SPECIFICATIONS, AS WELL AS OTHER PORTIONS OF THE CONTRACT DOCUMENTS FOR ADDITIONAL COORDINATION REQUIREMENTS.

10 THE LAYOUT REQUIREMENTS DESCRIBED IN THESE PLANS SHALL BE ADHERED TO AS CLOSELY AS POSSIBLE BUT SHALL NOT SUPERSEDE CODE CONSTRAINTS AND/OR REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION (AHJ'S). WHERE CODE OR AHJ REQUIREMENTS SUPERSEDE ITEMS SHOWN ON THIS PLAN, CONTRACTOR SHALL INCLUDE ALL ASSOCIATED PROVISIONS IN THE BID, AND SHALL MAKE THEM AT NO ADDITIONAL COST TO THE OWNER. PROPOSED DEVIATIONS FROM THIS PLAN SHALL BE SUBJECT TO ENGINEER OF RECORD REVIEW AND APPROVAL PRIOR TO IMPLEMENTATION.

11 ALL AREAS OF THE BUILDING NOT COVERED BY NOTES HERIN SHALL BE FULLY SPRINKLED IN ACCORDANCE WITH SPECIFICATIONS AND NFPA 13

12 WHERE PLAN INDICATES EXPOSED FIRE SPRINKLER PIPING DIRECTION OF LAYOUT, ASSOCIATED CONNECTED FIRE SPRINKLER PIPING RUNNING IN PERPENDICULAR DIRECTIONS SHALL BE INSTALLED ONLY IN CONCEALED LOCATIONS UNLESS INDICATED OTHERWISE.

13 INSTALLING CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS AND IS RESPONSIBLE FOR PREPARING A DESIGN TO ACCOMMODATE ALL EXISTING CONDITIONS.

14 EXPOSED FIRE SPRINKLER SYSTEM PIPING SHALL BE RUN STRAIGHT AND TIGHT TO UNDERSIDE OF STRUCTURAL MEMEBERS.

15 ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN COMPLIANCE WITH THE FOLLOWING CODES AS AMENDED AND ADOPTED BY THE INSPECTION AUTHORITY. NOTHING IN THESE PLANS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES OR OTHERS APPLICABLE TO THIS PROJECT.
A. SEISMIC RESTRAINT: ALL HUNG PIPING SHALL CONFORM TO NFPA 13, SECTION 9.3.
B. LATERAL BRACING MAY BE ELIMINATED IF PIPING 2-1/2" AND LARGER IS SUSPENDED BY INDIVIDUAL HANGERS 6" OR LESS IN LENGTH FROM THE TOP OF PIPE TO THE BOTTOM OF THE ATTACHMENT TO STRUCTURE.
C. NO TRAPEZE ASSEMBLIES SHALL BE USED TO SUPPORT PIPING.
D. WHERE LATERAL RESTRAINTS ARE OMITTED PIPING SHALL BE INSTALLED SUCH THAT LATERAL MOTION OF THE PIPING WILL NOT CAUSE DAMAGING IMPACT WITH OTHER SYSTEMS OR STRUCTURAL MEMBER, OR LOSS OF VERTICAL SUPPORT.
IF AT THE CONTRACTOR'S OPTION, PIPING IS NOT INSTALLED IN CONFORMANCE WITH THESE CONDITIONS, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS (1/4" = 1'-0") OF SEISMIC BRACING SYSTEM IN ACCORDANCE WITH "MASON INDUSTRIES" SEISMIC RESTRAINTS GUIDELINES FOR SUSPENDING PIPING AND DUCTWORK (OR APPROVED EQUAL) TO THE ARCHITECT FOR APPROVAL.

16 THE STRUCTURAL ENGINEER OF RECORD SHALL BE RESPONSIBLE TO VERIFY THE ADEQUANCY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACING LOADS.

17 THE CONTRACTOR SHALL SURVEY EXISTING FIELD CONDITIONS PRIOR TO BIDDING. IF AWARDED THE CONTRACT, THE CONTRACTOR SHALL SURVEY EXISTING FIELD CONDITIONS IN DETAIL AND COORDINATE THE WORK WITH EXISTING BUILDING SYSTEMS.

18 ANY DAMAGE TO NEW BUILDING ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL SYSTEMS THAT OCCURS DURING THE WORK SHALL BE RESTORED TO THE ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE. IF LANDSCAPED AREAS INCLUDING NATURAL SPACES MUST BE USED FOR BUILDING ACCESS, THE LANDSCAPING SHALL BE RETURNED TO IT ORIGINAL CONDITION. THE CONTRACTOR SHALL INCLUDE COSTS IN THE BID FOR THIS WORK IF THIS APPROACH IS USED. THE OWNER WILL NOT PAY ANY ADDITIONAL COSTS TO COVER DAMAGE TO THE BUILDING SYSTEMS, LANDSCAPING OR DRIVE AREAS.

19 COORDINATE THE FOLLOWING WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS AND ELEMENTS AS INSTALLED, INCLUDING EXISTING BUILDING SYSTEMS:
A. EXACT LOCATION OF ALL EQUIPMENT.
B. ALL PENETRATIONS THRU ROOF, WALLS AND FLOORS.
C. EXACT SIZE AND ROUTING OF PIPING.

20 DRAWINGS INDICATE DIAGRAMMATICALLY THE ARRANGEMENT OF PRINCIPAL APPARATUS, PIPING, AND OTHER MATERIAL. FOLLOW DRAWING AS CLOSELY AS POSSIBLE, IN ORDER TO ACHIEVE A NEAT ARRANGEMENT OF PIPING AND EQUIPMENT WHILE STILL OVERCOMING OBSTRUCTIONS.

21 INSTALLATION OF THE SPRINKLER SYSTEM SHALL NOT BE STARTED UNTIL COMPLETE PLANS AND SPECIFICATIONS, INCLUDING WATER SUPPLY INFORMATION, HAVE BEEN APPROVED BY THE LOCAL FIRE MARSHALL. AT VARIOUS STAGES AND UPON COMPLETION, THE SYSTEM MUST BE TESTED IN THE PRESENCE OF THE LOCAL AUTHORITY HAVING JURISDICTION.

22 ALL EXISTING FIRE PROTECTION SYSTEMS SHALL REMAIN IN OPERATION DURING PHASES OF CONTRUCTION. NO SYSTEMS ARE TO BE SHUTDOWN WITHOUT AUTHORIZATION FROM THE OWNER AND LOCAL FIRE DISTRICT.

23 THE LOCATION OF FIRE SPRINKLER HEADS SHALL BE COORDINATED WITH THE NEW CEILING LAYOUTS AND ALL OTHER TRADES FOR COMPLETE FORE PROTECTION COVERAGE OF ALL AREAS. PROVIDE DETAILED PLANS FOR APPROVAL PRIOR TO INSTALLATION.

24 HEADS SHALL BE SYMMETRICALLY LOCATED IN CENTER OF CEILING PANELS. COORDINATE LAYOUT WITH CEILING OR SOFFIT LIGHT FIXTURES, AND HVAC DIFFUSERS,RETURNS, ETC. PROVIDE PENDENT AND/OR UPRIGHT TYPE SPRINKLER HEAD WHERE REQUIRED.

25 WORKMANSHIP
ALL WORK SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER ACCORDING TO THE BEST TRADE PRACTICE BY THOSE SKILLED IN THE PARTICULAR TRADE. PIPES, EQUIPMENT, ETC., TO BE INSTALLED LEVEL, SQUARE OR CENTERED, ETC., TO GIVE A NEAT AND PLEASING APPEARANCE. ALL EQUIPMENT IS TO BE INSTALLED STRICTLY PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE ALL WORK WITH OTHER TRADES.

26 THE ANNULAR SPACE BETWEEN PIPE SLEEVESAND THE PIPE THOUGH ALL RATED WALLS AND FLOORS SHALL BE FIRESTOPPED. FIRESTOPPING OF ALL PIPE PENETRATIONS OF ALL PIPE PENETRATIONS SHALL COMPLY WITH U.L. REQUIREMENTS. MANUFACTURER PREAPPROVED UL PENETRATION FOR PIPE MATERIAL AND SURFACE PENETRATED SHALL BE USED. PENETRATIONS SHALL BE 3M, PROSET, OR APPROVED EQUAL. SUBMIT SHOP DRAWINGS.

27 BY OTHERS:
D. ELECTRICAL CONTRACTOR: ALL POWER AND ALARM WIRING, CONDUITS, DISCONNECTS, AND FINAL CONNECTIONS. NO FIELD SUPPLIED ELECTRICAL DEVICE SHALL BE MOUNTED ON PIPING AND NO RIGID ELECTRICAL CONNECTIONS SHALL BE MADE.
E. GENERAL CONTRACTOR: CUTTING, FRAMING, PATCHING, FURRING, AND PAINTING.

28 ALL MATERIALS AND EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL BE GUARANTEED FREE FROM ALL FIRE PROTECTION, ELECTRICAL AND WORKMANSHIP DEFECTS FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO THE PREMISES CAUSED BY LEAKS AND/OR BREAKS IN PIPES AND FIXTURES INSTALLED UNDER THIS CONTRACT.

29 IT IS THE INTENTION OF THE PLANS AND SPECIFICATIONS TO COVER ALL THINGS REQUIRED TO PROVIDE COMPLETE AND OPERATIVE SYSTEMS. THE CONTRACTOR IS TO FURNISH ALL LABOR, MATERIALS, TRANSPORTATION, EQUIPMENT, MISCELLANEOUS SERVICES, ETC., REQUIRED TO NECESSARY PART OF THE INSTALLATION IS TO BENCLUDED, WHETHER SPECIFICALLY SHOWN OR MENTIONED. THE ENGINEER WILL GIVE ANY INTERPRETATIONS NECESSARY FOR THE CONTRACTOR TO PROPERLY ESTIMATE THE JOB.

30 IT IS THE CONTRACTORS' RESPONSIBILITY TO PROVIDE TO PROVIDE FABRICATION OR SHOP DRAWINGS. CAD FILES WILL NOT BE PROVIDED.

31 ALL PIPE 1/2" - 2-1/4" SHALL BE BLACK STEEL SCH. 40. PIPES 2-1/2" - 6" MAYBE BE BLACK STEEL SCH. 10. REFER TO SPEC. SECTION 211313.

SHEET INDEX

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LONG BEACH, CALIFORNIA
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PM - DESIGN TEAM PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER V. MERCURIO
M 34011
EXPIRES 3/30/20
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED: 08/16/19
consultant

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GENERAL NOTES,

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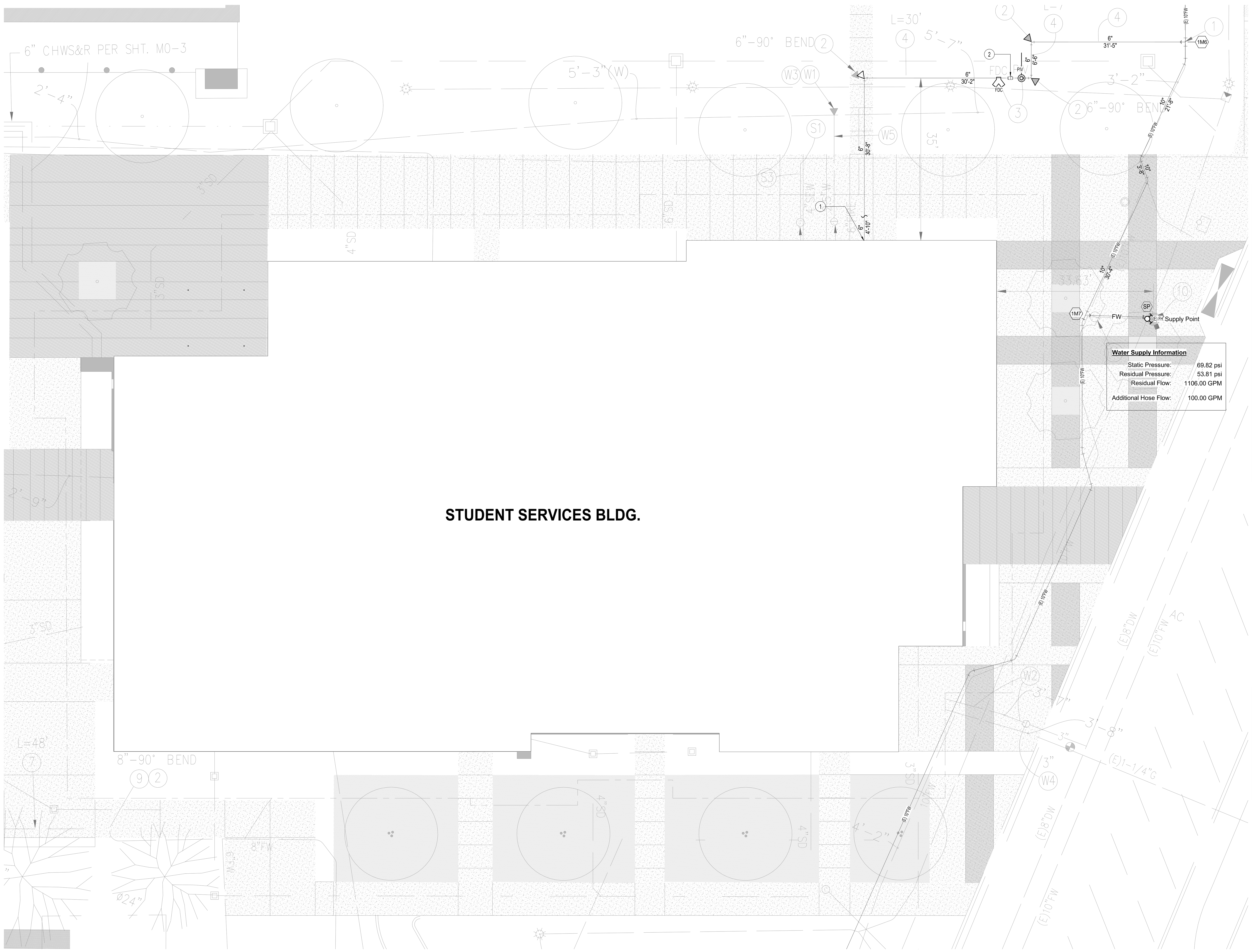

FIRE SPRINKLER SITE PLAN 1
SCALE 1" = 10'-0"

HYDRANT FLOW TEST FORM
CITY OF COMPTON WATER UTILITY DIVISION
205 S Willowbrook Ave.,Compton CA 90220
Phone (310) 605-5524 Fax (310) 763-
4567

I.PROJECT INFORMATION(TO BE FILLED BY APPLICANT)
Name:
Company Address:
Project Address: COMPTON COLLEGE_(Student Services Bldg)
Nearest Cross Street/Distance (ft)
Occupancy(Use fo Building)
Square Footage :

II.**FLOW TEST DATA (TO BE COMPLETED BY WATER UTILITY DIVISION)**
FLOW HYDRANT:_Student Services Bldg NEW ATLAS PAGE :_M 66
SIZE & MATERIAL OF WATER MAIN: unknown OUTLET DIAMETER : 2 ½"
TOTAL WATER DISCHARGED 5075.951 gals
Pitot PSI _43.577 Observed Flow (GPM) 1106.462
Duration of Flow 2 mins Date and Time 2018-12-19 15:13:00 to 15:15:00
TEST(RESIDUAL) HYDRANT:_NE NEW ATLAS PAGE_M 66
SIZE &MATERIAL OF WATER MAIN:__unknown
Static PSI _69.818 Residual PSI_53.808 FIREFLOW @20 PSI_2042 gpm
TEST(RESIDUAL) HYDRANT: SE NEW ATLAS PAGE__M 66
SIZE &MATERIAL OF WATER MAIN:__unknown
Static PSI _70.326 Residual PSI_54.525 FIREFLOW @20 PSI_2068 gpm
III. **PUBLIC FIRE HYDRANT FIREFLOW REQUIREMENTS (TO BE COMPLETED BY WATER UTILITY DIVISION)**
Alex Santos ALEX SANTOS
Signature of Water Utility Division Witness Please Print Name
TIME __15:30 (pm)
DATE__19_/DEC_/_2018__ TITLE:WATER PRODUCTION &DISTRIBUTION SUPERVISOR

IV.**TESTER INFORMATION**
Flow Test Conducted by:__D Bennett Phone (310_)_605 5690_
Tester Name
Business License #
Company Address:
Date / / Signature

FORMS 2018-10-02

Fire Flow Calculator 12/19/2018 COMPTON COLLEGE GREEN

Hydrant Locations:

Flowed Hydrant Designation	SE BUILDING F	SE BUILDING F	
Residual Hydrant Designation	NORTHEAST	SOUTHEAST	
Flow Calculation Data:			
Static psi before flowing	69.819	70.326	psi
Residual psi while flowing	53.808	54.525	psi
Pitot psi gage reading	43.577	43.577	psi
Diameter size of opening tested	2.50	2.50	inches
GPM from the test outlet	1106.462	1106.462	gpm
Projected available hydrant flow in GPM @ 20 psi	2042.00	2068.00	gpm

KEYNOTES:

1. 6" FIRE WATER LINE SERVING BUILDING.
2. 6" SWING CHECK VALVE IN-BETWEEN PIV & FDC. REFER TO CIVIL DETAIL 3/C1.6.

SHEET NOTES:

1. SITE UNDERGROUND PIPE AND APPURTENANCES AS SHOWN ON SITE PLAN ARE FOR REFERENCE AND CONTINUITY OF HYDRAULIC CALCULATIONS ONLY. WORK WITHIN THIS CONTRACT TO START AT A POINT 6" ABOVE FINISHED FLOOR AT RISER LOCATION PER PLAN SEE DETAIL 1/FS7-1.
2. REFER TO CIVIL DRAWINGS C1.5 FOR UNDERGROUND UTILITY ROUTINGS INCLUDING THRUST BLOCK LOCATIONS, FIRE DEPARTMENT CONNECTIONS, POST INDICATOR VALVES AND ADDITIONAL INFORMATION.
3. THIS PROJECT SITE HAS A DEDICATED FIRE WATER CAMPUS LOOP.
4. REFER TO FS6-1 & FS6-2 FOR OVERALL CALCULATION NODE LAYOUT.

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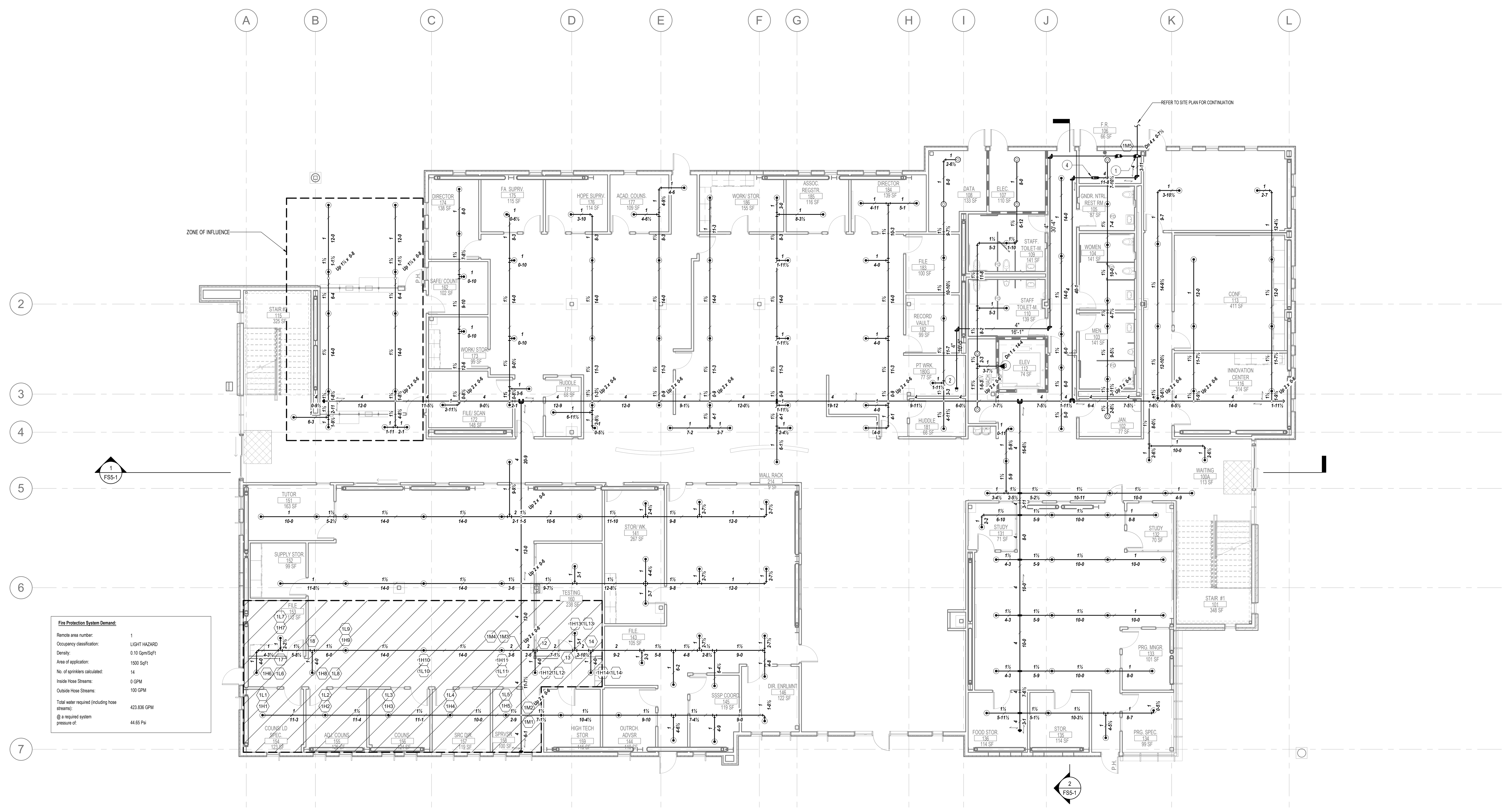
FIRE SPRINKLER SITE PLAN

drawing no.:
FS0-3



Fire Protection System Demand:

Remote area number:	1
Occupancy classification:	LIGHT HAZARD
Density:	0.10 Gpm/SqFt
Area of application:	1500 SqFt
No. of sprinklers calculated:	14
Inside Hose Streams:	0 GPM
Outside Hose Streams:	100 GPM
Total water required (including hose streams):	423.836 GPM
@ a required system pressure of:	44.65 Psi

1ST FLOOR SPRINKLER PLAN (1)

SCALE 1/8" = 1'-0"

NORTH

1ST FLOOR SPRINKLER HEAD SCHEDULE AND LEGEND

SYMBOL	LOCATION	MANUFACTURER	SIN#	K-FACTOR	RESPONSE	DESCRIPTION	TEMP.	FINISH	THREAD SIZE	COMMENTS	COUNT
○	EXPOSED STRUCTURE	VIKING	VK300	5.6	Quick	SSU	155 °F	BRASS	1/2"	UPRIGHT	8
◀	ELEVATOR PIT	VIKING	VK305	5.6	Quick	-	175 °F	BRASS	1/2"	SIDEWALL	1
◉	GYP. BRD. ACC. TILE	VIKING	VK462	5.6	Quick	SSP	155 °F	-	1/2"	PENDENT	152

LEGEND:

- HANGER
- LATERAL BRACING PROVIDE BRACING @ 40FT MAX ON MAIN LINE
- LONGITUDINAL BRACING PROVIDE BRACING @ 60FT MAX ON MAIN LINE AND AT THE ENDS
- X HYDRAULIC REFERENCE POINTS (NODES)
- X KEYED NOTE

KEYNOTES:

1 4" FIRE RISER TO 1ST FLOOR SPRINKLER SYSTEM.

2 4" FIRE RISER TO 2ND FLOOR SPRINKLER SYSTEM.

3 SIDEWALL SPRINKLER TO BE INSTALLED WITHIN 24" OF THE BOTTOM OF PIT PER NFPA 13, SEC. 8.15.5.1. PROVIDE TAMPER SWITCH AND INTERLOCK WITH FIRE ALARM PANEL.

4 PROVIDE AGF MODEL#M7950ILV AUTOMATIC AIR VENT VALVE.

SHEET NOTES:

1. PENDANT FIRE SPRINKLERS ARE TO BE LOCATED IN THE CENTERLINE OF THE CEILING TILE IN THE 2'-0" DIMENSION AND AT 12" INCREMENTS IN THE 4'-0" DIMENSION (TYP).
2. PROVIDE END OF LINE RESTAINTS AS REQUIRED PER NFPA 13 SEC. 9.3.6.1
3. AREA BELOW STAIRS WITH NO ACCESS FOR STORAGE AND IS NON-COMBUSTIBLE MAY BE OMITTED OF SPRINKLER REQUIREMENTS PER NFPA 13 2016: 8.15.3.2.3.1
4. IN ALL CEILINGS OVER 1,000 SF CONTRACTOR TO PROVIDE CONCEALED SPRINKLER HEADS WITH SPRINKLER HEADS ACCESSORY, EXPANSION PLATE. EXPANSION PLATE PROVIDED TO COMPLY WITH ALL REQUIREMENTS OF NFPA 13, SEC. A.9.3.4.
5. PROVIDE BRANCH LINE RESTRAINTS AND END OF LINE RESTRAINTS PER DETAIL 8 / FS7-1.

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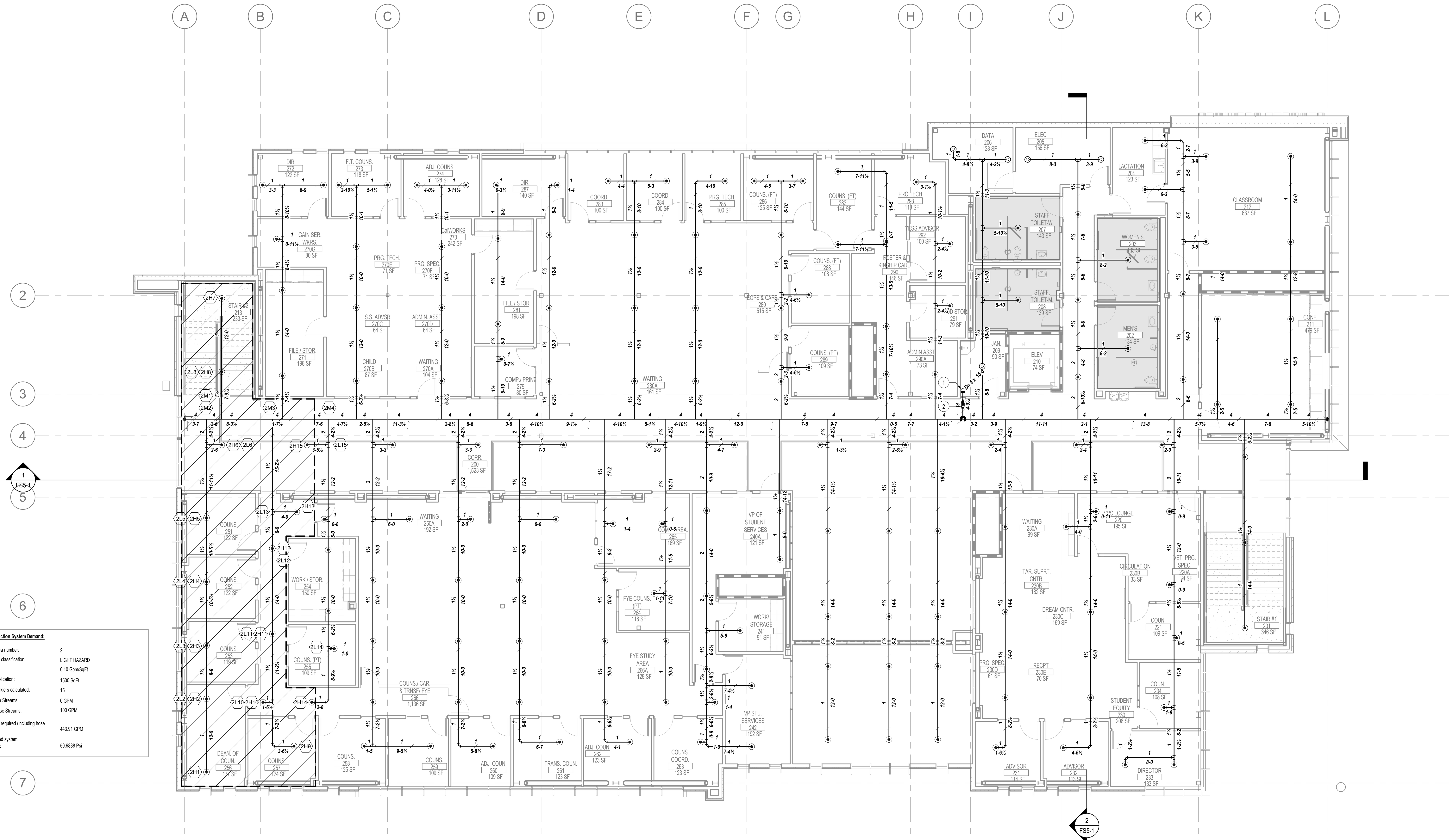
FIRE SPRINKLER FIRST FLOOR PLAN

drawing no.:

FS1-1



Fire Protection System Demand:

Remote area number:	2
Occupancy classification:	LIGHT HAZARD
Density:	0.10 Gpm/SqFt
Area of application:	1500 SqFt
No. of sprinklers calculated:	15
Inside Hose Streams:	0 GPM
Outside Hose Streams:	100 GPM
Total water required (including hose streams):	443.91 GPM
@ a required system pressure of:	50.6838 Psi

SECOND FLOOR SPRINKLER PLAN 1

SCALE 1/8" = 1'-0"

NORTH

2ND FLOOR SPRINKLER HEAD SCHEDULE AND LEGEND

SYMBOL	LOCATION	MANUFACTURER	SIN#	K-FACTOR	RESPONSE	DESCRIPTION	TEMP.	FINISH	THREAD SIZE	COMMENTS	COUNT
○	EXPOSED STRUCTURE	VIKING	VK300	5.6	Quick	SSU	155 °F	BRASS	1/2"	UPRIGHT	5
⦿	GYP. BRD. ACC. TILE	VIKING	VK462	5.6	Quick	SSP	155 °F	-	1/2"	PENDENT	161

LEGEND:

- HANGER
- LATERAL BRACING PROVIDE BRACING @ 40FT MAX ON MAIN LINE
- LONGITUDINAL BRACING PROVIDE BRACING @ 60FT MAX ON MAIN LINE AND AT THE ENDS
- X HYDRAULIC REFERENCE POINTS (NODES)
- X KEYED NOTE

KEYNOTES:

1 4" FIRE RISER TO 2ND FLOOR SPRINKLER SYSTEM.

2 PROVIDE AGF MODEL#M7950ILV AUTOMATIC AIR VENT VALVE.

SHEET NOTES:

1. PENDANT FIRE SPRINKLERS ARE TO BE LOCATED IN THE CENTERLINE OF THE CEILING TILE IN THE 2'-0" DIMENSION AND AT 12" INCREMENTS IN THE 4'-0" DIMENSION (TYP).
2. PROVIDE END OF LINE RESTAINTS AS REQUIRED PER NFPA 13 SEC. 9.3.6.1
3. AREA BELOW STAIRS WITH NO ACCESS FOR STORAGE AND IS NON-COMBUSTIBLE MAY BE OMITTED OF SPRINKLER REQUIREMENTS PER NFPA 13 2016: 8.15.3.2.3.1
4. IN ALL CEILINGS OVER 1,000 SF CONTRACTOR TO PROVIDE CONCEALED SPRINKLER HEADS WITH SPRINKLER HEADS ACCESSORY, EXPANSION PLATE. EXPANSION PLATE PROVIDED TO COMPLY WITH ALL REQUIREMENTS OF NFPA 13, SEC. A.9.3.4.
5. PROVIDE BRANCH LINE RESTRAINTS AND END OF LINE RESTRAINTS PER DETAIL 8 / FS7-1.

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PM - DESIGN TEAM PROJECT NO.

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COMPTON COLLEGE STUDENT SERVICES BLDG.

COMPTON COMMUNITY COLLEGE DISTRICT
1111 E. ARTESIA BLVD.
COMPTON, CA 90221
owner

tBP project number: 20987.00

file name: CECI_COMPTON CC STUDENT SERVICES_MP18_CENTRAL.RVT

drawn by: CECI checked by: CM

date: 9.03.2019

rev:	date:	description:

drawing title:
FIRE SPRINKLER SECOND FLOOR PLAN

drawing no.:
FS1-2

FIRST FLOOR SPRINKLER RCP

1 SCALE 1/8" = 1'-0" NORTH

1ST FLOOR SPRINKLER HEAD SCHEDULE AND LEGEND											
SYMBOL	LOCATION	MANUFACTURER	SIN#	K-FACTOR	RESPONSE	DESCRIPTION	TEMP.	FINISH	THREAD SIZE	COMMENTS	COUNT
○	EXPOSED STRUCTURE	VIKING	VK300	5.6	Quick	SSU	155 °F	BRASS	1/2"	UPRIGHT	8
◀	ELEVATOR PIT	VIKING	VK305	5.6	Quick	-	175 °F	BRASS	1/2"	SIDEWALL	1
⦿	GYP. BRD. ACC. TILE	VIKING	VK462	5.6	Quick	SSP	155 °F	-	1/2"	PENDENT	152

KEYNOTES:

1 -

SHEET NOTES:

1. PENDANT FIRE SPRINKLERS ARE TO BE LOCATED IN THE CENTERLINE OF THE CEILING TILE IN THE 2'-0" DIMENSION AND AT 12" INCREMENTS IN THE 4'-0" DIMENSION (TYP).
2. PROVIDE END OF LINE RESTAINTS AS REQUIRED PER NFPA 13 SEC. 9.3.6.1
3. AREA BELOW STAIRS WITH NO ACCESS FOR STORAGE AND IS NON-COMBUSTIBLE MAY BE OMITTED OF SPRINKLER REQUIREMENTS PER NFPA 13 2016: 8.15.3.2.3.1
4. IN ALL CEILINGS OVER 1,000 SF CONTRACTOR TO PROVIDE CONCEALED SPRINKLER HEADS WITH SPRINKLER HEADS ACCESSORY, EXPANSION PLATE. EXPANSION PLATE PROVIDED TO COMPLY WITH ALL REQUIREMENTS OF NFPA 13, SEC. A.9.3.4.

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drawing title:
FIRE SPRINKLER FIRST FLOOR RCP

drawing no.:
FS2-1

SECOND FLOOR FIRE SPRINKLER RCP

SCALE 1/8" = 1'-0"

1

NORTH

2ND FLOOR SPRINKLER HEAD SCHEDULE AND LEGEND											
SYMBOL	LOCATION	MANUFACTURER	SIN#	K-FACTOR	RESPONSE	DESCRIPTION	TEMP.	FINISH	THREAD SIZE	COMMENTS	COUNT
○	EXPOSED STRUCTURE	VIKING	VK300	5.6	Quick	SSU	155 °F	BRASS	1/2"	UPRIGHT	5
⊙	GYP. BRD. ACC. TILE	VIKING	VK462	5.6	Quick	SSP	155 °F	-	1/2"	PENDENT	161

KEYNOTES:

1 -

SHEET NOTES:

1. PENDANT FIRE SPRINKLERS ARE TO BE LOCATED IN THE CENTERLINE OF THE CEILING TILE IN THE 2'-0" DIMENSION AND AT 12" INCREMENTS IN THE 4'-0" DIMENSION (TYP).
2. PROVIDE END OF LINE RESTAINTS AS REQUIRED PER NFPA 13 SEC. 9.3.6.1
3. AREA BELOW STAIRS WITH NO ACCESS FOR STORAGE AND IS NON-COMBUSTIBLE MAY BE OMITTED OF SPRINKLER REQUIREMENTS PER NFPA 13 2016: 8.15.3.2.3.1
4. IN ALL CEILINGS OVER 1,000 SF CONTRACTOR TO PROVIDE CONCEALED SPRINKLER HEADS WITH SPRINKLER HEADS ACCESSORY, EXPANSION PLATE. EXPANSION PLATE PROVIDED TO COMPLY WITH ALL REQUIREMENTS OF NFPA 13, SEC. A.9.3.4.

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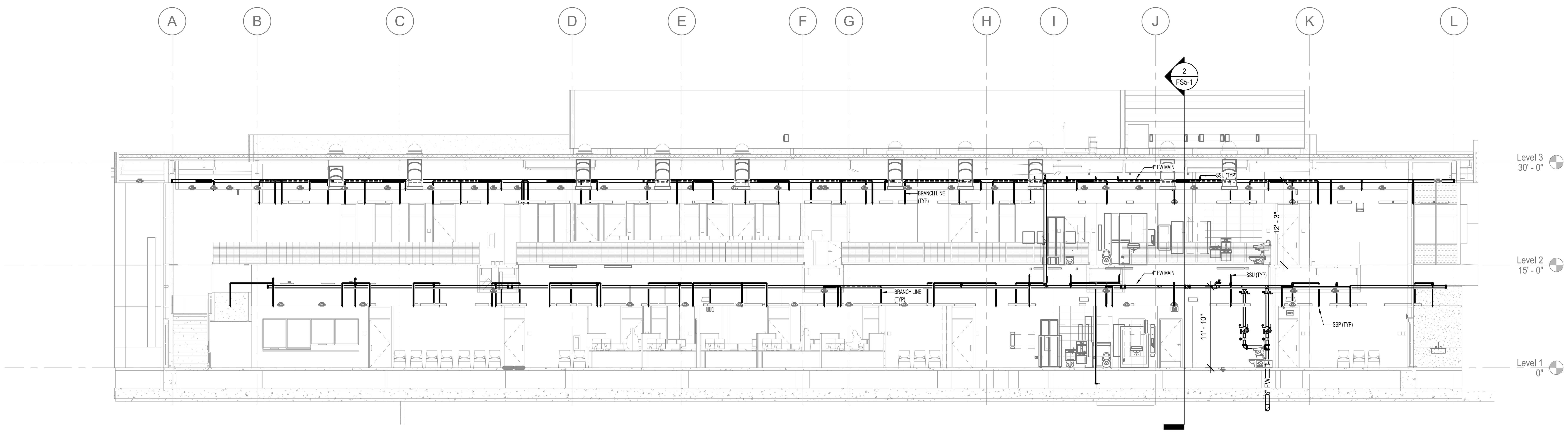
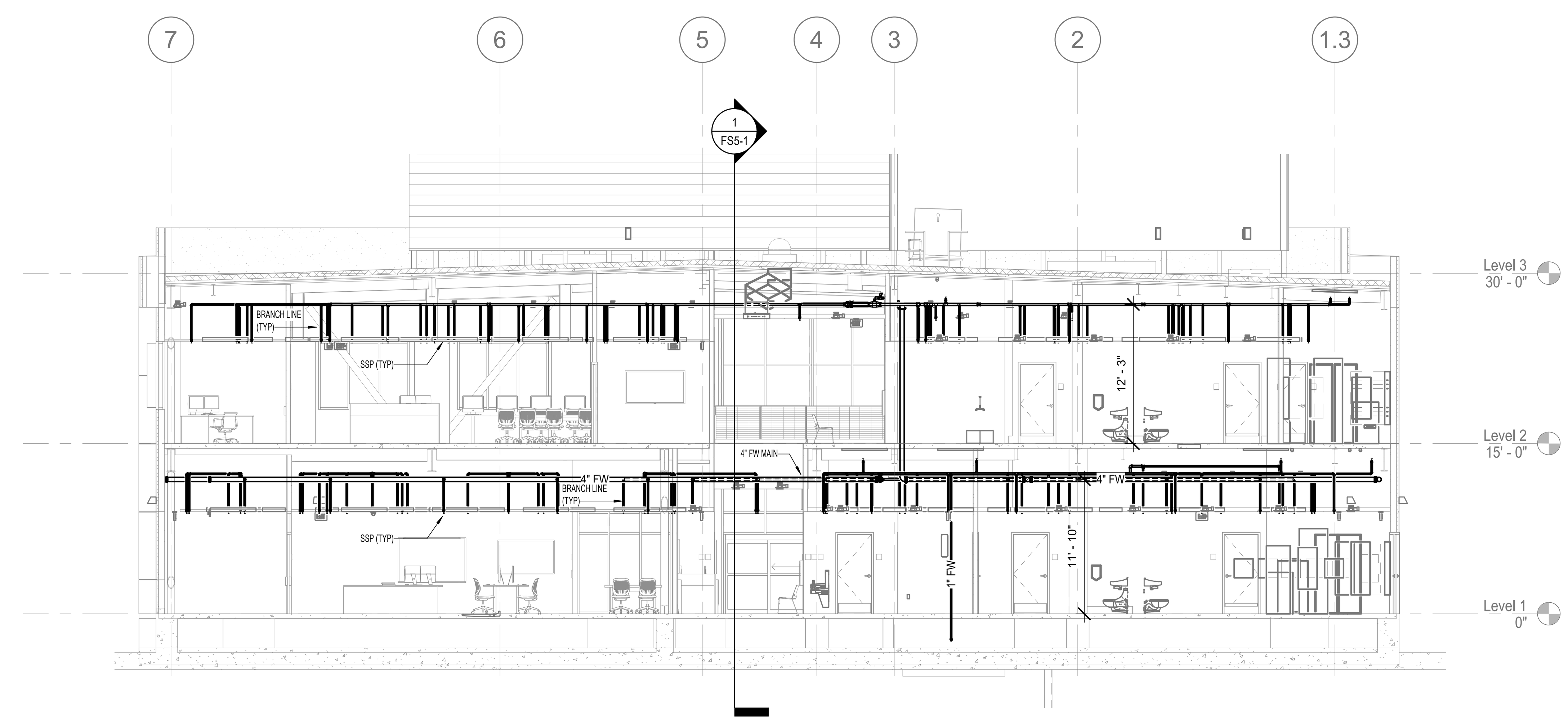
FIRE SPRINKLER SECOND FLOOR RCP

drawing no.:

FS2-2



1 East to West Building Section
FS5-1
SCALE: 1/8" = 1'-0"



2 North to South Building Section
FS5-1
SCALE: 1/8" = 1'-0"

SHEET NOTES:

1. SPRINKLERS SHALL BE PERMITTED TO BE OMITTED IN CONCEALED SPACES ABOVE CEILINGS CONSTRUCTED OF NON-COMBUSTIBLE MATERIALS PER NFPA 13 SEC. 8.15.1.2 TYPICAL THROUGHOUT.

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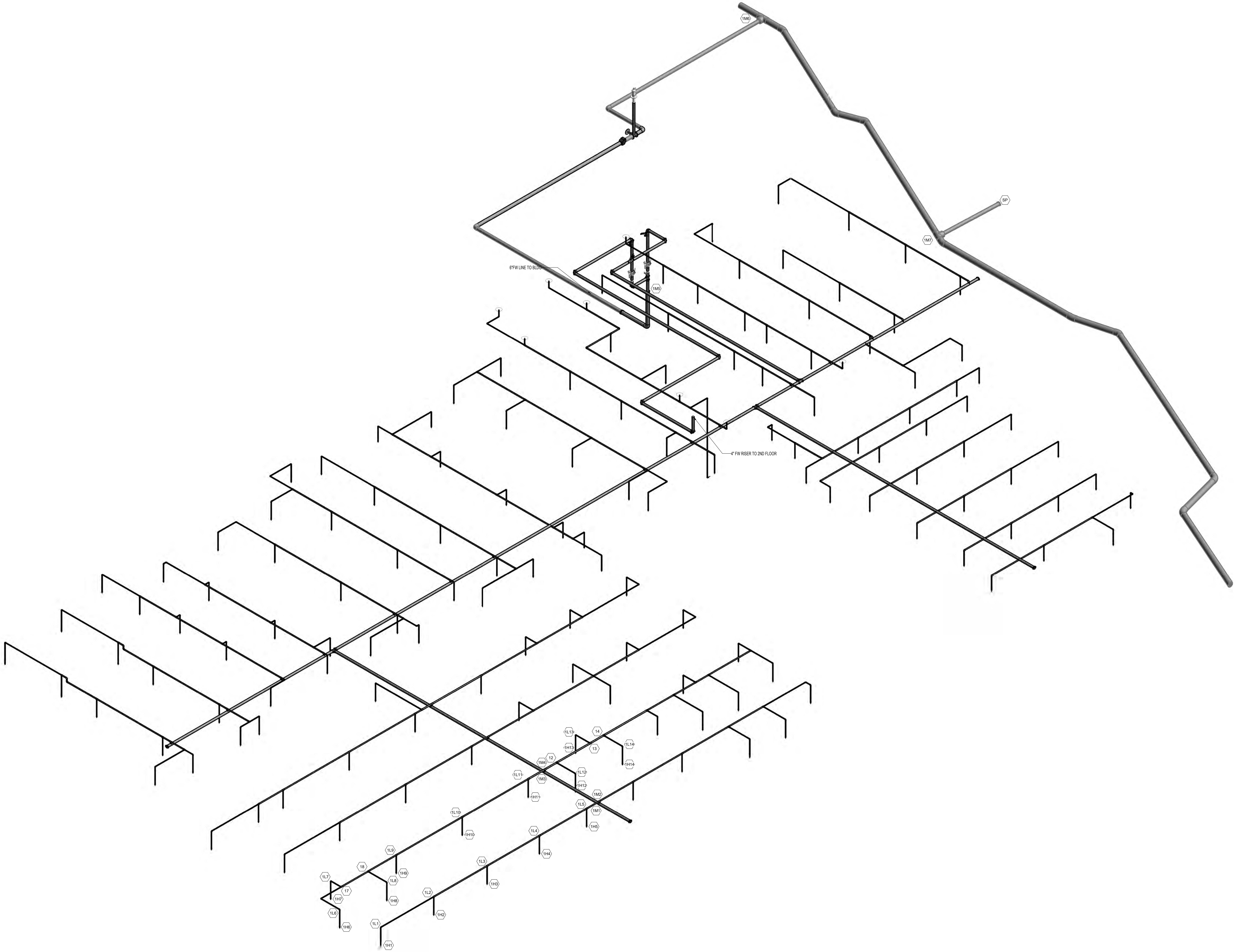
drawing title:
BUILDING SECTIONS

drawing no.:
FS5-1



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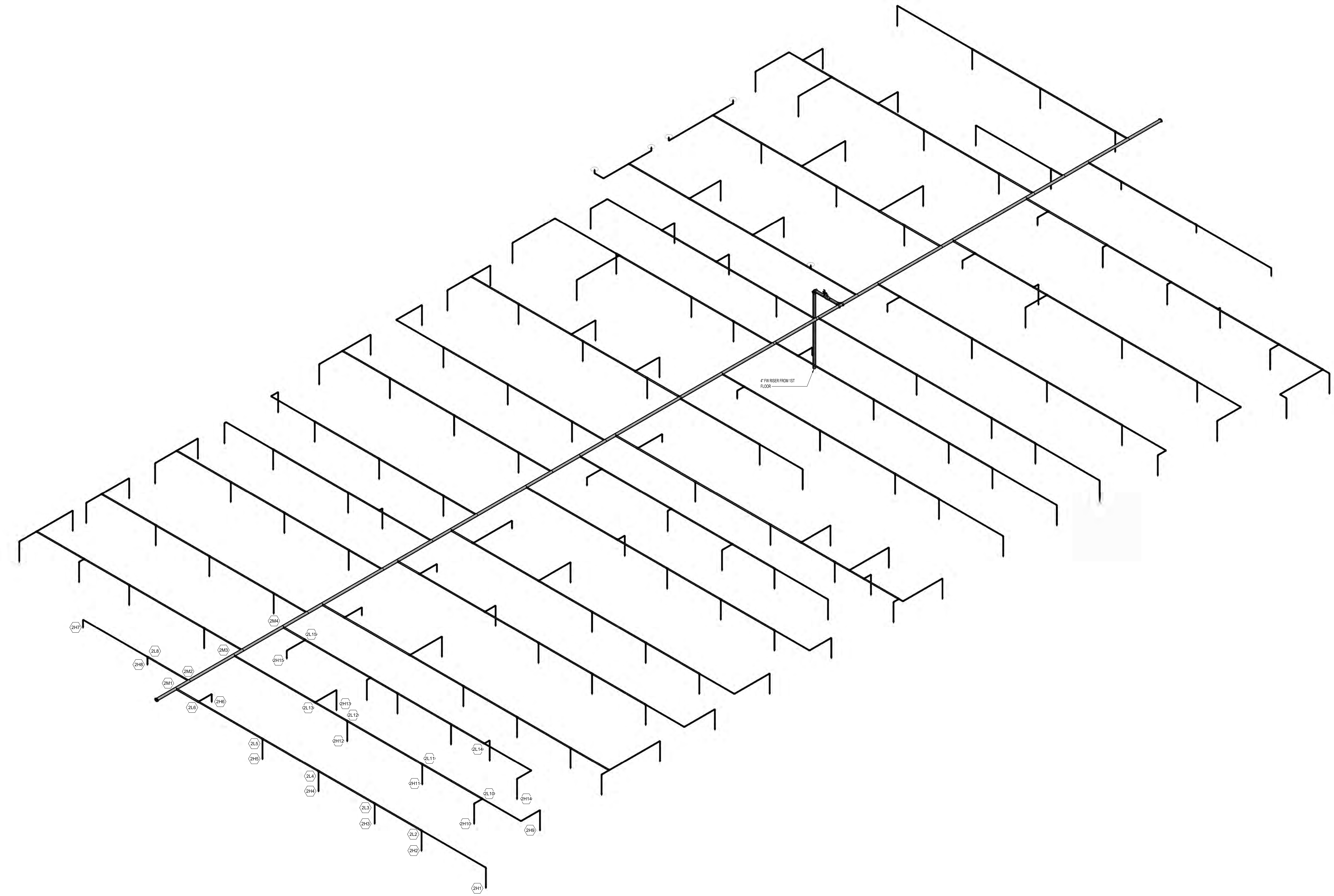
FIRST FLOOR ISOMETRIC

drawing no.:
FS6-1



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drawing title:
SECOND FLOOR ISOMETRIC

drawing no.:
FS6-2

AUTOMATIC FIRE SPRINKLER SYSTEM
SEISMIC LOADING CALCULATION - NFPA 13 2016

SWAY BRACE ASSEMBLIES

BRACE INFORMATION		SEISMIC BRACE ATTACHMENT	
LENGHT OF BRACE:	7'-0"	STRUCTURAL ATTACHMENT FITTING:	
		MAKE: TOLCO FIG. 800	
DIAMETER OF BRACE:	1"	LISTED LOAD RATING:	2,015
		ADJUSTED PER TABLE 9.3.5.2.3 (45-59)	1,425
TYPE OF BRACE:	SCH. 40 PIPE		
		PIPE ATTACHMENT FITTING:	
ANGLE OF BRACE:	45° TO 59°	MAKE: TOLCO FIG. 1001	
		LISTED LOAD RATING:	2,015
LEAST RADIUS OF GYRATION:	0.42	ADJUSTED PER TABLE 9.3.5.2.3 (45-59)	1,425
L/R VALUE:	200	MAKE: TOLCO FIG. 910	
		LISTED LOAD RATING:	1,600
MAX. HORIZONTAL LOAD:	1,310	ADJUSTED PER TABLE 9.3.5.2.3 (45-59)	1,131
		MAKE: TOLCO FIG.4L	
		LISTED LOAD RATING:	2,015
		ADJUSTED PER TABLE 9.3.5.2.3 (45-59)	1,425

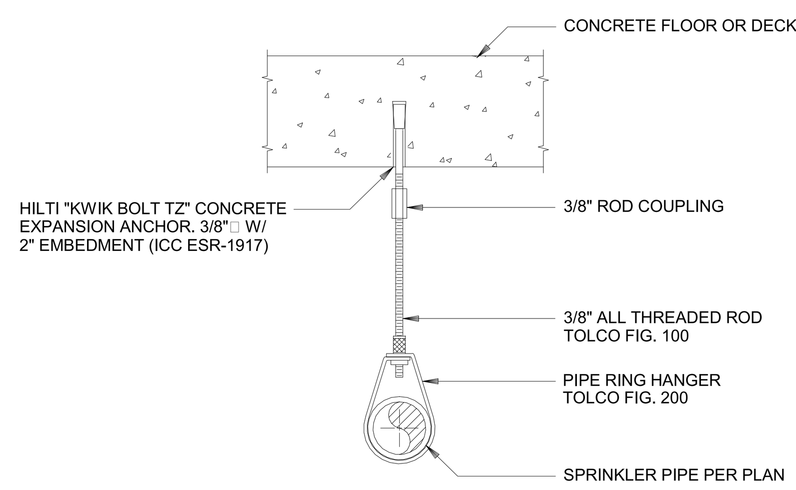
SEISMIC BRACE FASTENER	SEISMIC BRACE ASSEMBLY DETAIL
ORIENTATION OF CONNECTING SURFACE : B (NFPA 13 2016 FIG 9.3.5.9.1)	
FASTENER :	SEE DETAIL 2 & 3 THIS SHEET.
TYPE: ATTACHMENT TO STEEL BEAM - TOLCO FIG. 800	
MAX LOAD : 2,015 LBS.	
ADJUSTED PER TABLE 9.3.5.10.3: 1,425 LBS	BRACE IDENTIFICATION NO. (TO BE USED ON PLANS) :
	X LATERAL BRACE / LONGITUDINAL BRACE

SPRINKLER SYSTEM LOAD CALCULATION Fpw = Cp X Wp

DIA	TYPE	LENGTH	Ss = 1.67 - Cp = 0.79		TOTAL WEIGHT	
1"	SCH 40	40.00'	X 2.05	LBS / FT	82.00	LBS
1 1/4"	SCH 40	0.00'	X 2.93	LBS / FT	0.00	LBS
1 1/2"	SCH 40	40.00'	X 3.61	LBS / FT	144.4	LBS
2"	SCH 40	1.50'	X 5.13	LBS / FT	7.7	LBS
3"	SCH 40	0.00'	X 10.82	LBS / FT	0.00	LBS
4"	SCH 10	30.00'	X 11.78	LBS / FT	353.4	LBS
6"	SCH 10	0.00'	X 23.03	LBS / FT	0.00	LBS
		TOTAL WEIGHT OF WATER FILLED PIPE			587.5	LBS
		Wp (incl 15%)			675.63	LBS
		TOTAL (Fpw)			533.74	LBS
		X	LATERAL BRACE			
DIA	TYPE	LENGTH	Ss = 1.67 - Cp = 0.79		TOTAL WEIGHT	
1"	SCH 40	0.00'	X 2.05	LBS / FT	0.00	LBS
1 1/4"	SCH 40	0.00'	X 2.93	LBS / FT	0.00	LBS
1 1/2"	SCH 40	0.00'	X 3.61	LBS / FT	0.00	LBS
2"	SCH 40	0.00'	X 5.13	LBS / FT	0.00	LBS
3"	SCH 40	0.00'	X 10.82	LBS / FT	0.00	LBS
4"	SCH 10	60.00'	X 11.78	LBS / FT	706.8	LBS
6"	SCH 10	0.00'	X 23.03	LBS / FT	0.00	LBS
		TOTAL WEIGHT OF WATER FILLED PIPE			706.8	LBS
		Wp (incl 15%)			812.82	LBS
		TOTAL (Fpw)			642.13	LBS

REFER TO SHEET FS1-1 FOR ZONE OF INFLUENCE.

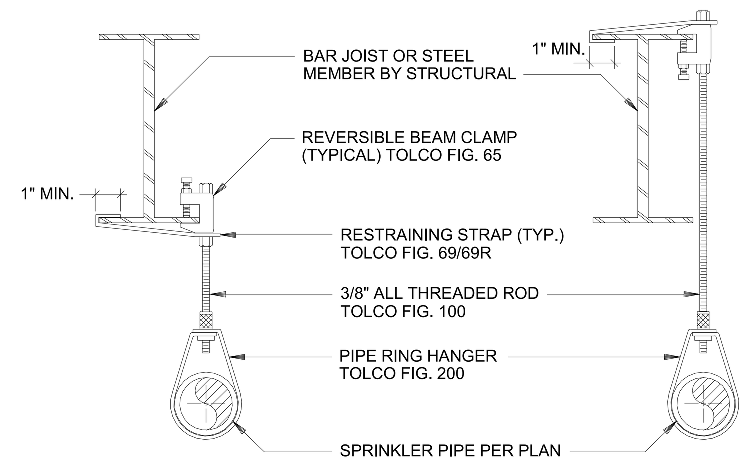
SEISMIC BRACE CALC, LEGEND & SCHEDULE 9
SCALE NTS



"KWIK-BOLT TZ" ANCHOR, ROD, COUPLING AND RING

PIPE SIZE	MAXIMUM SPACING
1" & 1 1/4"	12'-0"
1 1/2" - 3"	15'-0"
4" & LARGER	10'-0"

PIPE HANGER TO CONCRETE



BEAM CLAMP, ROD, COUPLING AND RING

PIPE SIZE	MAXIMUM SPACING
1" & 1 1/4"	12'-0"
1 1/2" - 3"	15'-0"
4" & LARGER	10'-0"

PIPE HANGER TO STEEL

NOTE:

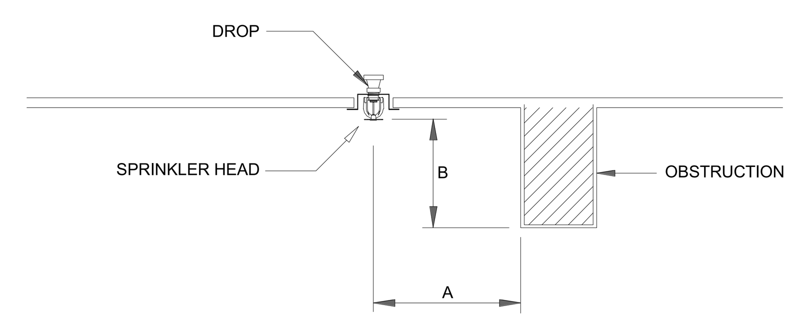
A. FOR STEEL PIPE, THE UNSUPPORTED HORIZONTAL LENGTH BETWEEN THE END SPRINKLER AND THE LAST HANGER ON THE LINE SHALL BE AS FOLLOWS;

PIPE SIZE	HORIZONTAL LENGTH
1"	NOT GREATER THAN 36"
1 1/4"	NOT GREATER THAN 48"
1 1/2" & LARGER	NOT GREATER THAN 60"

(NFPA 13, SEC. 9.2.3.4.1, 2013 EDITION)

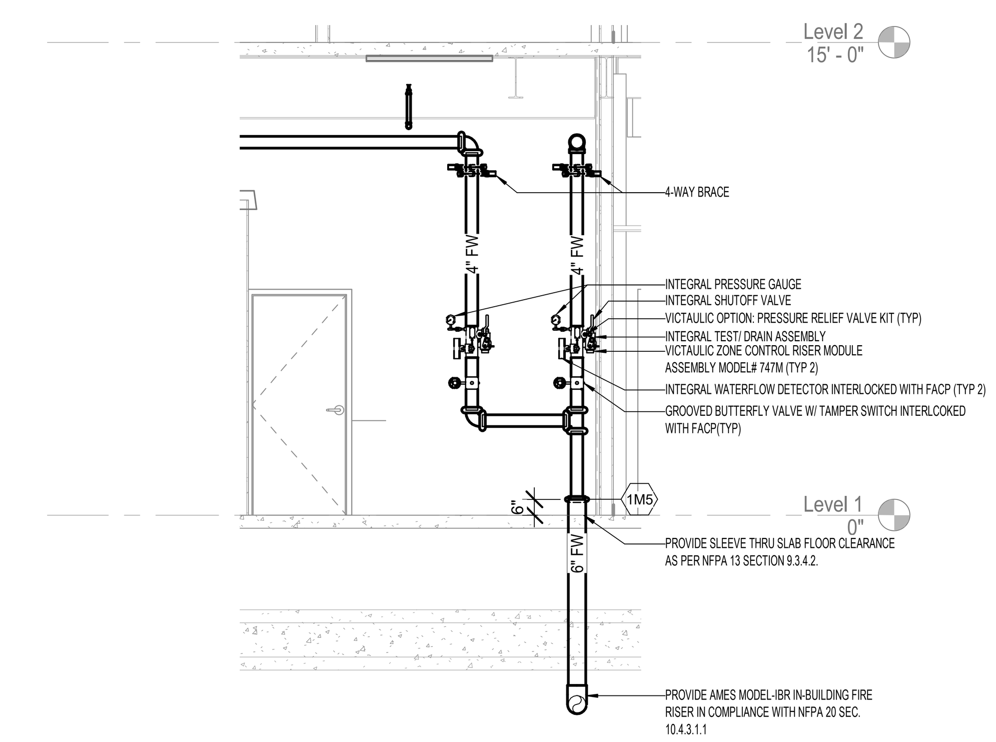
SYMBOL

PIPE HANGER DETAIL 7
SCALE NTS

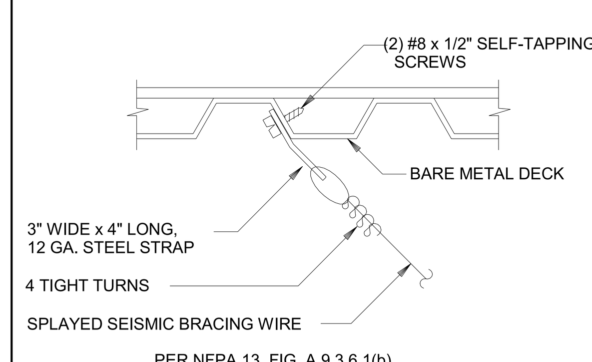


DISTANCE FROM SPRINKLERS TO SIDE OF OBSTRUCTION (A)	MAX. ALLOWANCE DISTANCE OF DEFLECTOR ABOVE BOTTOM OF OBSTRUCTION (IN.) (B)
LESS THAN 1 FT.	0
1'-0" TO LESS THAN 1'-6"	2-1/2
1'-6" TO LESS THAN 2'-0"	3-1/2
2'-0" TO LESS THAN 2'-6"	5-1/2
2'-6" TO LESS THAN 3'-0"	7-1/2
3'-0" TO LESS THAN 3'-6"	9-1/2
3'-6" TO LESS THAN 4'-0"	12
4'-0" TO LESS THAN 4'-6"	14
4'-6" TO LESS THAN 5'-0"	16-1/2
5'-0" TO LESS THAN 5'-6"	18
5'-6" TO LESS THAN 6'-0"	20
6'-0" TO LESS THAN 6'-6"	24
6'-6" TO LESS THAN 7'-0"	30
7'-0" TO LESS THAN 7'-6"	35

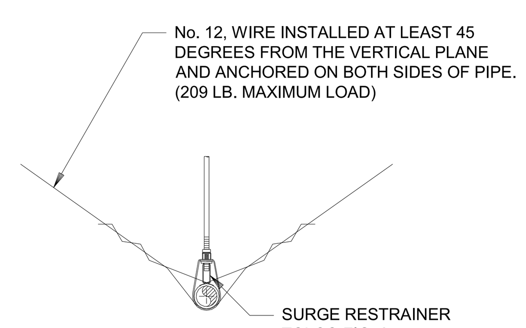
OBSTRUCTION TABLE 4
SCALE NTS



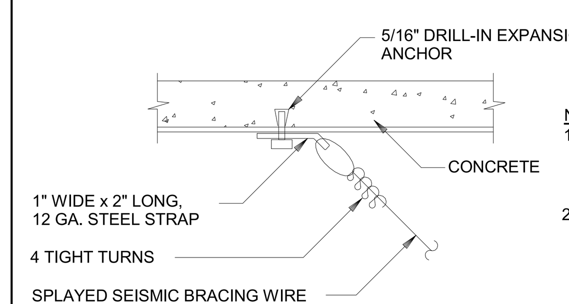
FIRE RISER 1
SCALE 1/4" = 1'-0"



PER NFPA 13, FIG. A.9.3.6.1(b)



END OF BRANCH LINE SEISMIC RESTRAINT
(NFPA 13, SECTION 9.3.6.1)

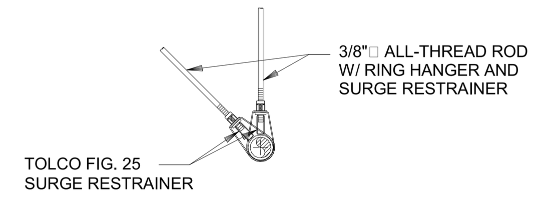


PER NFPA 13, FIG. A.9.3.6.1(d)

NOTES:

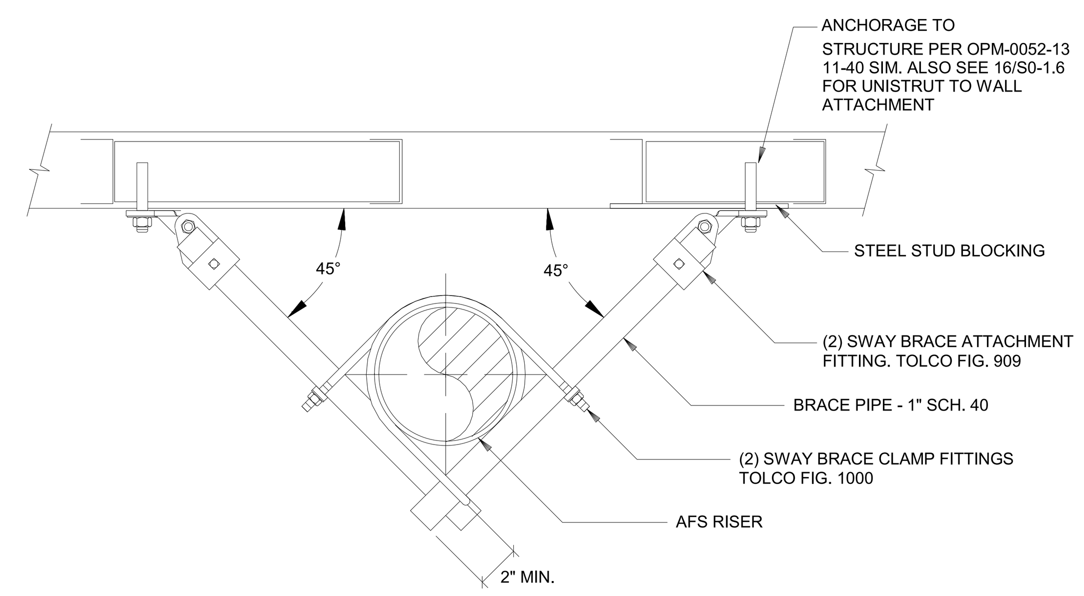
1. THE END SPRINKLER ON A BRANCH LINE SHALL BE RESTRAINED AGAINST EXCESSIVE VERTICAL OR LATERAL MOVEMENT (NFPA 13, 9.3.6.3, 2013 EDITION.)
2. THE ABOVE DETAIL CAN ALSO BE USED WHERE THE UPWARD OR LATERAL MOVEMENT OF THE SYSTEM PIPING WOULD RESULT IN DAMAGE TO THE SPRINKLER THROUGH THE IMPACT AGAINST THE BUILDING STRUCTURE, EQUIPMENT OR FINISH MATERIALS. (NFPA 13, TABLE 9.3.6.4(a), 2013 EDITION.)

PIPE SIZE	MAXIMUM SPACING
1"	26' INTERVALS
1 1/4"	27' INTERVALS
1 1/2"	29' INTERVALS
2"	31' INTERVALS



ALTERNATE END OF BRANCH LINE SEISMIC RESTRAINT
(NFPA 13 SECTION 9.3.6.1)

BRANCH LINE RESTRAINT 8
SCALE NTS



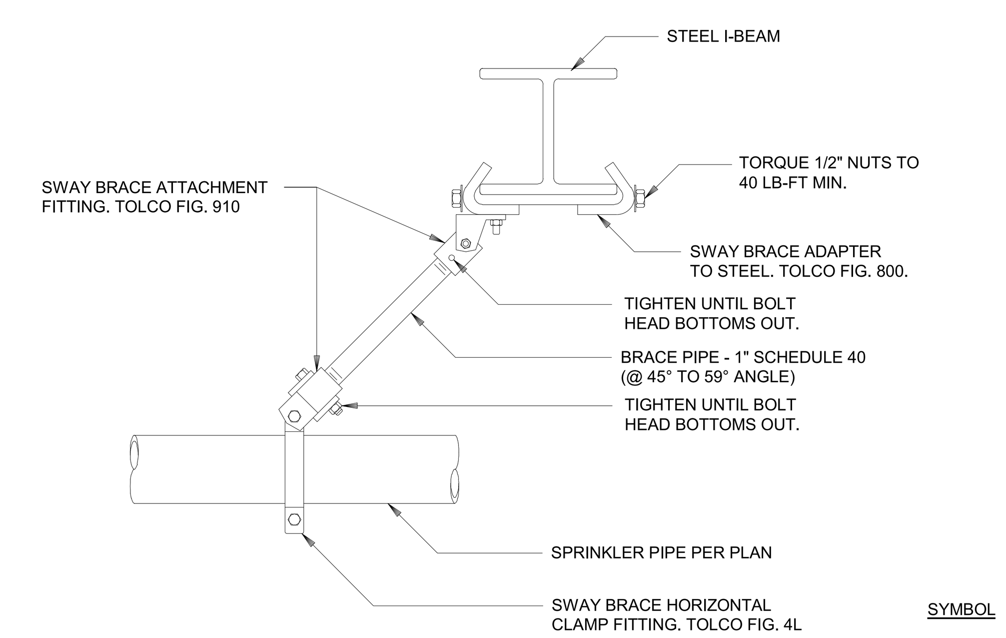
NOTE:

A. UTILIZE TWO LATERAL SEISMIC BRACES FOR 4-WAY RISER BRACE

B. USE OPM-0052-13 FOR SUPPORT MEMBER SIZES AND ATTACHMENTS (R1-A & R1-B)

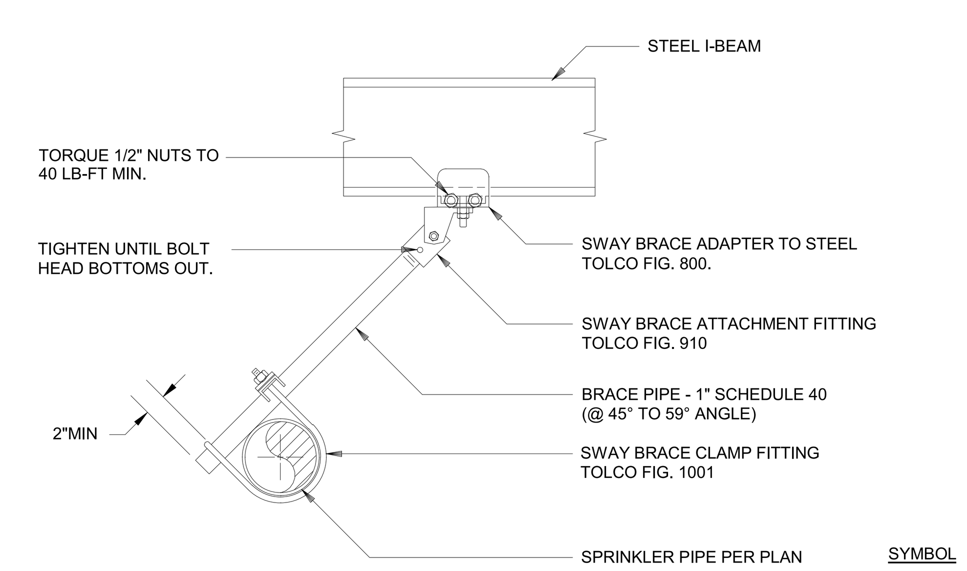
SYMBOL

4-WAY SWAY BRACING 5
SCALE NTS



SYMBOL

LONGITUDINAL SEISMIC BRACE TO STEEL 2
SCALE NTS



SYMBOL

LATERAL SEISMIC BRACE TO STEEL 3
SCALE NTS

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DETAILS

drawing no.:
FS7-1

GENERAL NOTES

1. THESE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO COVER A COMPLETE INSTALLATION OF SYSTEMS. THE OMISSION OR EXPRESSED REFERENCE TO ANY ITEM OF LABOR OR MATERIALS REQUIRED FOR THE PROPER EXECUTION OF THE WORK IN ACCORDANCE WITH PRESENT PRACTICE OF THE TRADE SHALL NOT RELIEVE THE CONTRACTOR FROM PROVIDING SUCH ADDITIONAL LABOR AND MATERIALS.

2. THESE PLANS, SPECIFICATIONS, AND ALL MATERIALS SHALL BE IN FULL ACCORDANCE WITH ALL LEGAL AND INDUSTRY REQUIREMENTS, AND STANDARDS INCLUDING WITHOUT LIMITATION TO THE FOLLOWING:
   a. CALIFORNIA CODE OF REGULATIONS TITLE 24, PARTS 1 AND 2 (CALIFORNIA BUILDING CODE), 2016 EDITION.
   b. CALIFORNIA CODE OF REGULATIONS TITLE 24, PART 3 (CALIFORNIA ELECTRICAL CODE), 2016 EDITION.
   c. CALIFORNIA CODE OF REGULATIONS TITLE 24, PART 6 (CALIFORNIA ENERGY CODE), 2016 EDITION.
   d. CALIFORNIA CODE OF REGULATIONS TITLE 24, PART 9 (CALIFORNIA FIRE CODE), 2016 EDITION.
   e. OTHER REGULATING AGENCIES WHICH MAY HAVE AUTHORITY OVER ANY PORTION OF THE WORK, INCLUDING THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY, AND THOSE CODES AND STANDARDS LISTED IN THESE NOTES AND SPECIFICATIONS.
   f. THE ELECTRICAL SYSTEMS FUNCTIONALITY STANDARDS SET FORTH IN TITLE 7 OF THE CALIFORNIA CIVIL CODE (THE "RIGHT TO REPAIR ACT").
   g. THE MANUFACTURER'S REQUIREMENTS OR RECOMMENDATIONS FOR ANY INCORPORATED PRODUCTS.
   h. THE MOST CURRENT APPROVED ISSUES OF ANY NOTED SPECIFICATIONS, CODES AND STANDARDS, INCLUDING SUPPLEMENTS, UNLESS NOTED OTHERWISE.

3. THE PLANS REPRESENT ONLY THE FINISHED ELECTRICAL, FIRE ALARM, AND LOW VOLTAGE SYSTEMS, AND THEY ARE NOT INTENDED TO INDICATE OR REQUIRE ANY CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES.

4. IN USING THE PLANS FOR BIDDING OR CONSTRUCTION PURPOSES, THE CONTRACTOR IS REQUIRED TO REVIEW ALL OF THE PROJECT'S CONSTRUCTION DOCUMENTS AS A WHOLE IN ORDER TO IDENTIFY ALL REQUIREMENTS THAT DIRECTLY OR INDIRECTLY AFFECT ITS PORTION OF THE WORK OR OTHER WORK, EVEN REQUIREMENTS LOCATED IN SECTIONS DESIGNATED AS APPLICABLE TO OTHER TRADES. IN CASE OF CONFLICTS, THE CONTRACTOR SHALL EITHER OBTAIN DIRECTION FROM AN APPROPRIATE OWNER REPRESENTATIVE OR OTHERWISE APPLY THE MORE STRINGENT REQUIREMENT.

5. IN INTERPRETATING THE PLANS, THE FOLLOWING GENERAL RULES APPLY:
   a. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DRAWINGS.
   b. SCALED DIMENSIONS AND GRAPHICALLY SHOWN LOCATIONS ARE TO BE CONSIDERED ONLY APPROXIMATE. FIELD VERIFY DIMENSIONS PRIOR TO BID.

6. IN IMPLEMENTING THE PLANS, THE FOLLOWING GENERAL RULES APPLY:
   a. BECAUSE THE PLANS ARE INTENDED TO SET FORTH THE REQUIREMENTS FOR CONSTRUCTION IN ONLY AN INDUSTRY-STANDARD LEVEL OF QUALITY AND DETAIL, AND THEREFORE ARE INTENDED TO BE SUPPLEMENTED BY APPROPRIATE REQUESTS FOR CLARIFICATION AND INFORMATION, ERRORS AND OMISSIONS ARE TO BE EXPECTED AND ANTICIPATED; AND THE CONTRACTOR IS REQUIRED TO CAREFULLY REVIEW THE PLANS FOR ERRORS AND OMISSIONS AND TO BRING THESE ERRORS AND OMISSIONS TO THE ATTENTION OF AN APPROPRIATE OWNER REPRESENTATIVE IN A TIMELY MANNER AS ASSUME THE RISK OF THE CONSEQUENCES OF FAILING TO DO SO BEFORE BIDDING OR OTHERWISE PROCEEDING.
   b. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION, AND NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR INCONSISTENCIES..

7. SUBMITTALS WILL BE REVIEWED BY THE ELECTRICAL ENGINEER, IF AT ALL, ONLY PURSUANT TO THE INDUSTRY-STANDARD PROTOCOL SET FORTH IN A1A DOCUMENT A201, AND IN NO EVENT WILL THE SUBMITTAL REVIEW PROCESS RELIEVE OR LESSEN THE SUBMITTING CONTRACTOR'S RESPONSIBILITY FOR AN INAPPROPRIATE SUBMITTAL.

8. IN NO EVENT WILL ANY SITE VISITS BY THE ELECTRICAL ENGINEER CONCERN CONSTRUCTION MEANS AND METHODS OR CONSTRUCTION SAFETY, AND ALL SUCH MATTERS SHALL REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

9. COPIES OF THE PLANS PROVIDED IN ANY ELECTRONIC FORM ARE SUBJECT TO THE SAME PROVISIONS AS THE OTHER INSTRUMENTS OF SERVICE PREPARED BY OR ON BEHALF OF ELECTRICAL ENGINEER FOR THE PROJECT, INCLUDING WITHOUT LIMITATION THE ENGINEER'S COMMON LAW, STATUTORY OR OTHER RESERVED RIGHTS, INCLUDING COPYRIGHTS. A RECIPIENT IS GRANTED AT MOST A TRANSFERABLE NONEXCLUSIVE LICENSE TO REUSE THE PLANS SOLELY FOR PROJECT PURPOSES; AND NO RECIPIENT IS AUTHORIZED TO USE OR TO ALLOW THE USE OF ALL OR ANY PORTION OF THESE PLANS FOR ANY OTHER PURPOSE, AND ANY USE FOR ANY OTHER PURPOSE WOULD CONSTITUTE ACTIONABLE PLAGIARISM. ELECTRICAL ENGINEER PROVIDES DOCUMENTS IN AN ELECTRONIC FORM ONLY IN ITS STANDARD FORMATS AND CONVENTIONS AND WITH NO GUARANTEE OF COMPATIBILITY WITH ANY RECEIPIENT'S SOFTWARE OR HARDWARE, AND ANY USE WITH OR CONVERSION TO OTHER FORMATS OR CONVENTIONS, OR THE USE WITH ANY PARTICULAR SOFTWARE OR HARDWARE, IS AT THE RECIPIENT'S SOLE RISK.

10. REFER TO THE DRAWINGS AND SHOP DRAWINGS OF OTHER TRADES FOR ADDITIONAL DETAILS WHICH AFFECT THE PROPER INSTALLATION OF THIS WORK.

11. BEFORE SUBMITTING A BID, THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH ALL FEATURES OF THE BUILDING, AND ALL BUILDING DRAWINGS WHICH MAY AFFECT THE EXECUTION OF THE WORK. NO EXTRA PAYMENT WILL BE ALLOWED FOR FAILURE TO OBTAIN THIS INFORMATION.

12. PROTECT ALL WORK, MATERIALS AND EQIPMENT FROM DAMAGE FROM ANY CAUSE WHATEVER AND PROVIDE ADEQUATE AND PROPER STORAGE FACILITIES DURING THE PROGRESS OF THE WORK. PROVIDE FOR THE SAFETY AND GOOD CONDITION OF ALL THE WORK UNTIL FINAL ACCEPTANCE OF THE WORK BY THE OWNER AND REPLACE ALL DAMAGED OR DEFECTIVE WORK, MATERIALS AND EQUIPMENT BEFORE REQUESTING FINAL ACCEPTANCE.

13. THE DRAWINGS INDICATE IN A DIAGRAMMATIC MANNER, THE DESIRED LOCATIONS OF ARRANGEMENT OF THE COMPONENTS OF ELECTRICAL WORK. DETERMINE EXACT CONDUIT ROUTING, CONDUIT BENDS, AUXILIARY JUNCTION BOXES, SUPPORTS, AND UNDEFINED CONSTRUCTION DETAILS AS A JOB CONDITION TO BE EXECUTED IN ACCORDANCE WITH THE APPLICABLE CODE REQUIREMENTS. PROPER JUDGEMENT MUST BE EXERCISED IN EXECUTING THE WORK SO AS TO SECURE THE BEST POSSIBLE INSTALLATION IN THE AVAILABLE SPACE, AND TO OVERCOME LOCAL DIFFICULTIES DUE TO SPACE LIMITATIONS OR INTERFERENCE OF CONDITIONS ENCOUNTERED.

14. IN THE EVENT CHANGES IN THE INDICATED LOCATIONS OR ARRANGEMENTS ARE NECESSARY, DUE TO DEVELOPED CONDITIONS IN THE BUILDING CONSTRUCTION OR REARRANGEMENTOF EQUIPMENT, SUCH CHANGES SHALL BE MADE WITHOUT COST PROVIDING THE CHANGE IS ORDERED BEFORE THE CONDUIT RUNS, ETC., AND WORK DIRECTLY CONNECTED TO SAME IS INSTALLED AND NO EXTRA MATERIALS ARE REQUIRED.

15. THE DRAWINGS INDICATE APPROXIMATE LOCATIONS OF EXISTING CONDUITS. THE EXACT ROUTING SHALL BE VERIFIED IN FIELD AND LENGTH OF CONDUCTORS SHALL BE ADJUSTED TO THE LENGTH REQUIRED.

16. PERFORM CUTTING AND PATCHING ON THE CONSTRUCTION WORK WHICH MAY BE REQUIRED FOR THE PROPER INSTALLATION OF THE ELECTRICAL WORK. PATCHING SHALL BE OF THE SAME MATERIAL, WORKMANSHIP AND FINISH AS SPECIFIED AND ACCURATELY MATCH SURROUNDING WORK TO SATISFACTION OF THE ARCHITECT.

17. PROVIDE ALL EQUIPMENT WITH ENCLOSURES LISTED OR LABELED FOR USE AND LOCATION WHERE SUCH EQUIPMENT IS INSTALLED.

18. PROVIDE UL LISTED FIRE STOP FOR ALL PENETRATIONS THROUGH FIRE RATED FLOORS, WALLS AND CEILINGS TO MAINTAIN ALL FIRE RATINGS. THE FIRE STOP MATERIALS SHALL BE RE-ENTERABLE AND REUSABLE.

19. PROVIDE COORDINATED SHOP DRAWINGS. INDICATING DIMENSIONED LOCATIONS AND SIZES OF ALL CORE DRILLS FOR REVIEW AND APPROVAL. ALL CORE DRILL LOCATIONS SHALL BE VERIFIED AND APPROVED WITH OWNERS REPRESENTATIVE, STRUCTURAL AND ARCHITECT PRIOR TO CORE DRILL. UTILIZE X-RAY EQUIPMENT TO LOCATE AND VERIFY EXISTING STRUCTUREAL ELEMENTS WITHIN SLAB.

20. GROUNDING SHALL BE EXECUTED IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS, BOTH OF THE STATE OF CALIFORNIA AND LOCAL AUTHORITIES HAVING JURISDICTION.

21. PROVIDE GROUND WIRE IN EACH CONDUIT CONTAINING CIRCUITS FEEDING RECEPTACLES. THE CONDUIT SHALL NOT BE PERMITTED TO SERVE AS THE ONLY ELECTRICAL GROUND RETURN PATH.

22. WHERE CIRCUIT CHANGES OR ADDITIONS OCCUR IN PANELBOARDS UPDATE PANEL DIRECTORY CARDS WITH NEW TYPEWRITTEN CARDS INDICATING DESCRIPTION OF ALL CIRCUITS.

23. PROVIDE HANDLE TIES AT CIRCUIT BREAKERS TO SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS OF MULTI-WIRE BRANCH CIRCUITS WITH A SHARED NEUTRAL.

24. UNLESS NOTED OTHERWISE ALL 120 VOLT HOMERUNS OVER 100 FEET SHALL BE #10 AWG MINIMUM. ADJUST CONDUIT SIZE ACCORDINGLY.

25. UNLESS NOTED OTHERWISE ALL 277 VOLT HOMERUNS OVER 200 FEET SHALL BE #10 AWG MINIMUM, OVER 300 FEET SHALL BE #8 AWG MINIMUM. ADJUST CONDUIT SIZE ACCORDINGLY.

26. CONDUIT FOR TELEPHONE/DATA CABLING SHALL COMPLY WITH THE FOLLOWING ADDITIONAL REQUIREMENTS:
   a. INSIDE BEND RADIUS SHALL BE AT LEAST 10 TIMES ITS INTERNAL DIAMETER.
   b. PROVIDE PULL BOXES WHENEVER CONDUIT LENGTH EXCEEDS 150 FEET AND WHEN COMBINED BENDS ARE GREATER THAN 180 DEGREES.
   c. ALL CONDUIT SHALL BE PROVIDED WITH INSULATED BUSHINGS.
   d. MAINTAIN A MINIMUM CLEARANCE OF 4 FEET FROM MOTORS AND TRANSFORMERS.
   e. MAINTAIN A MINIMUM CLEARANCE OF 12 INCHES FROM POWER CIRCUITS.

27. COORDINATE MOUNTING HEIGHTS OF RECEPTACLES, SWITCHES, A/V DEVICES, SECURITY DEVICES, ETC. MOUNTED ON COMMON WALLS SO THAT ALL OUTLETS ARE MOUNTED TO ALIGN HORIZONTALLY.

28. NOTIFY THE ARCHITECT IN WRITING WHEN INSTALLATION IS COMPLETE AND THAT A FINAL INSPECTION OF THIS WORK CAN BE PERFORMED. IN THE EVENT DEFECTS OR DEFICIENCIES ARE FOUND DURING THIS FINAL INSPECTION, THEY SHALL BE CORRECTED TO THE SATISFACTION OF THE ARCHITECT BEFORE FINAL ACCEPTANCE CAN BE ISSUED.

SYMBOL LIST

(ALL SYMBOL NOT NECESSARILY USED ON THESE DRAWINGS)
ALL SYMBOL DESCRIPCTION ARE SUBJECT TO MODIFICATION AS NOTED ON THE DRAWINGS . VERIFY EXACT LOCATION AND HEIGHT OF OUTLETS WITH ARCHITECTURAL INTERIOR ELEVATIONS PRIOOR TO ROUGH-IN.

AM-FM ANTENNA (VERIFY MOUNTING LOCATION)

OUTLET BOX FOR CLOSED CIRCUIT CAMERA. PROVIDE 1" C. TO BUILDING'S ACCESSIBLE CEILING. (VERIFY MOUNTING LOCATION)

MCA-11 — HOME RUN TO MCA-11, INDICATES MOTOR CONTROL CENTER "MCA" CIRCUIT NO. 11. SEE RESPECTIVE SCHEDULE FOR WIRE AND CONDUIT.

PUSH BUTTON STATION WITH "STOP-START" PUSH BUTTONS AND RED INDICATING PILOT LIGHT ON FLUSH WALL MOUNTED OUTLET BOX, +45".

CONDUIT, INSTALLED CONCEALED IN WALL OR IN CEILING SPACE.

CONDUIT, INSTALLED CONCEALED IN OR UNDER FLOOR OR BELOW GRADE, 3/4" CONDUIT MINIMUM.

CONDUIT, INSTALLED EXPOSED.

B-5,7,9 — HOMERUN TO PANEL "B" FOR CIRCUITS 5, 7, 9 WITH COMMON NEUTRAL.

UNDERGROUND CONDUIT STUBOUT, STUB 5'-0" FROM BUILDING OR WALKWAY, CAP, MARK AND RECORD.

MOTOR CONNECTION. PROVIDE FUSED SAFETY SWITCH (DISCONNECT), HORSE POWER RATED, WALL MOUNTED, +45" OR EQUIPMENT MOUNTED, +36". PROVIDE SWITCH AND FUSES SIZED PER EQUIPMENT MANUFACTURER REQUIREMENTS.

JUNCTION BOX, FLUSH IN FLOOR. "P" INDICATES PEDESTAL TYPE ON FLUSH FLOOR MOUNTED OUTLET BOX.

FIRE ALARM BELL

COMBINATION DATA/POWER/AUDIO VIDEO FLOOR BOX FLUSH WITH GRADE WITH MINIMUM TWO (2) DATA OUTLET, TWO (2) POWER OUTLET AND AUDIO VISUAL CONNECTORS. REFER TO TELECOM PLANS FOR MORE INFORMATION.

PT — COMBINATION DATA/POWER/AUDIO VIDEO POKE THROUGH DEVICE WITH MINIMUM TWO (2) DATA OUTLET, TWO (2) POWER OUTLET AND AUDIO VISUAL CONNECTORS. REFER TO TELECOM PLANS AND SPECIFICATIONS FOR MORE INFORMATION.

(4) — COMBINATION DATA/POWER FLOOR BOX WITH FOUR (4) DATA OUTLETS AND TWO (2) DUPLEX RECEPTACLES. REFER TO TELECOM PLANS AND SPECIFICATIONS FOR MORE INFORMATION.

(6) R — COMBINATION DATA/POWER FLOOR BOX WITH SIX (6) DATA OUTLETS AND THREE (3) DUPLEX RECEPTACLES. REFER TO TELECOM PLANS AND SPECIFICATIONS FOR MORE INFORMATION.

(4) PT — COMBINATION DATA/POWER POKE-THRU, DEVICE WITH TWO (2) DUPLEX RECEPTACLES AND FOUR (4) DATA JACKS. REFER TO TELECOM PLANS AND SPECIFICATIONS FOR MORE INFORMATION.

(6) PT — COMBINATION DATA/POWER POKE-THRU, DEVICE WITH TWO (2) DUPLEX RECEPTACLES AND SIX (6) DATA JACKS. REFER TO TELECOM PLANS AND SPECIFICATIONS FOR MORE INFORMATION.

AUDIO/VIDEO OUTLET, ON FLUSH WALL MOUNTED OUTLET BOX WITH COVERPLATE AND GROMETTED OPENING. PROVIDE OUTLET BOX, COVERPLATE AND 1.5" CONDUIT CONCEALED IN WALL TO THE ACCESSIBLE CEILING SPACE UNLESS NOTED OTHERWISE. PROVIDE AV CABLES FROM THE INSTRUCTORS DESK TO THE LCD DISPLAY OR SHORT THROW PROJECTOR LOCATED AT THE TEACHING WALL. MOUNT AV OUTLET AT INSTRUCTOR'S DESK AT +18". MOUNT AV OUTLET AT LCD DISPLAY OR SHORT THROW PROJECTORS AT +70".

AUDIO/VIDEO CONTROL PANEL, ON FLUSH IN WALL MOUNTED OUTLET BOX, +45" A.F.F. LOCATED AT INSTRUCTOR'S DESK. PROVIDE CONTROL PANEL, OUTLET BOX AND 1" CONDUIT CONCEALED IN WALL DOWN TO AV CONNECTOR PLATE AT +18" A.F.F. PROVIDE AV CABLING BETWEEN AV CONTROL PANEL AND AV CONNECTOR PLATE IN ACCORDANCE WITH THE AV SYSTEM REQUIREMENTS.

LIGHTING FIXTURE, RECESS MOUNTED, WITH OUTLET BOX.

LIGHTING FIXTURE, SURFACE OR PENDANT MOUNTED ON FLUSH MOUNTED OUTLET BOX.

INDUSTRIAL LIGHTING FIXTURE, SURFACE, CHAIN OR PENDANT MOUNTED ON FLUSH MOUNTED OUTLET BOX.

LIGHTING FIXTURE, SURFACE OR PENDANT MOUNTED, ON FLUSH CEILING MOUNTED OUTLET BOX.

LIGHTING FIXTURE, RECESS MOUNTED, WITH OUTLET BOX.

LIGHTING FIXTURE, SURFACE OR FLUSH MOUNTED AS INDICATED ON FIXTURE SCHEDULE, ON WALL MOUNTED OUTLET BOX, +90". STEM INDICATES WALL MOUNTED OUTLET BOX, TYPICAL.

OUTLET ON EMERGENCY OR NIGHT LIGHT LIGHTING CIRCUIT.

POST TOP LIGHTING STANDARD, POLE MOUNTED LUMINAIRE AND POLE SUPPORT BASE.

LIGHTING FIXTURE WITH LAMPS ON NORMAL AND EMERGENCY LIGHTING CIRCUITS, PROVIDE SEPARATE LAMP BALLASTS AS REQUIRED.

LIGHTING FIXTURE RECESSED MOUNTED WITH OUTLET BOX AND REMOTE MOUNTED JUNCTION BOX CONCEALED ABOVE ACCESSIBLE CEILING. PROVIDE FLEXIBLE CONDUIT CONNECTION 6 FT. MAXIMUM LENGTH, 1/2" DIAMETER MINIMUM, FROM JUNCTION BOX TO FIXTURE OUTLET. PROVIDE CONDUCTORS IN CONDUIT, QUANTITY AS REQUIRED FOR INDICATED CIRCUITS AND SWITCHING CONTROLS, #12 (AWG) MINIMUM.

LIGHTING STANDARD WITH SINGLE ARM MOUNTED LUMINAIRE AND POLE SUPPORT BASE.

LIGHTING STANDARD WITH TWIN ARM MOUNTED LUMINARIES AND POLE SUPPORT BASE.

UPLIGHT, MOUNTED FLUSH WITH FINISH GRADE.

FLOODLIGHTING FIXTURE WITH WEATHERPROOF OUTLET BOX.

TRACK LIGHTING WITH FIXTURE(S), CEILING, PENDANT, OR WALL MOUNTED, WITH FLUSH OUTLET BOX.

EXIT SIGN SINGLE FACE, ON FLUSH CEILING MOUNTED OUTLET BOX. ARROW INDICATES DIRECTIONAL ARROW ON EXIT SIGN FACE. REFER TO ARCHITECTURAL DRAWINGS FOR PHOTOLUMINESCENT, FLOOR-LEVEL EXIT MARKERS AND EXIT PATH MARKINGS.

EXIT SIGN DOUBLE FACE, ON FLUSH CEILING MOUNTED OUTLET BOX. REFER TO ARCHITECTURAL DRAWINGS FOR PHOTOLUMINESCENT, FLOOR-LEVEL EXIT MARKERS AND EXIT PATH MARKINGS.

EXIT SIGN, ON FLUSH WALL MOUNTED OUTLET BOX, +90". REFER TO ARCHITECTURAL DRAWINGS FOR PHOTOLUMINESCENT, FLOOR-LEVEL EXIT MARKERS AND EXIT PATH MARKINGS.

2 / 100 — FIXTURE SCHEDULE DESIGNATION: "2" INDICATES FIXTURE TYPE, "100" INDICATES FIXTURE TOTAL WATTAGE.

S 2,P a,b — SINGLE POLE TOGGLE SWITCH, ON FLUSH WALL MOUNTED OUTLET BOX, +45". INSTALL MULTIPLE SWITCHES UNDER COMMON COVER PLATE. SUBSCRIPT OR SUPERSCRIPT AT SWITCH SYMBOL INDICATES THE FOLLOWING:

2 - DOUBLE POLE
3 - THREE WAY
4 - FOUR WAY
P - PILOT LIGHT
M - MANUAL MOTOR STARTERS
K - KEY OPERATED
R - SPDT MOMENTARY CONTACT RELAY SWITCH
V - VAPOR PROOF
a,b,c,d, ETC. - MULTIPLE SWITCHES WITH IDENTIFICATION OF OUTLET CONTROLLED

$ — SWITCH FOR CONTROL OF LOW VOLTAGE LIGHTING RELAY(S), ON FLUSH WALL MOUNTED OUTLET BOX, +45". INSTALL MULTIPLE SWITCHES UNDER COMMON COVER PLATE.

D — DIMMING SYSTEM LIGHTING CONTROL STATION ON FLUSH IN WALL MOUNTED OUTLET BOX, +45".

L — LOW VOLTAGE LIGHTING ON/OFF CONTROL SWITCH IN FLUSH IN WALL OUTLET BOX, +45".

E — LOW VOLTAGE CLASSROOM LIGHTING ENTRANCE CONTROL STATION IN FLUSH IN WALL OUTLET BOX, +45"

I — LOW VOLTAGE INSTRUCTORS CLASSROOM LIGHTING DIMMING CONTROL STATION IN FLUSH IN WALL OUTLET BOX, +45".

OS — LIGHTING CONTROL OCCUPANCY MOTION SENSOR ON FLUSH CEILING MOUNTED OUTLET BOX. MOUNT CENTERED IN CEILING TILE.

LC — LIGHTING LEVEL CONTROLLER (PHOTO SENSOR) ON FLUSH CEILING MOUNTED OUTLET BOX. MOUNT CENTERED IN CEILING TILE.

LIGHTING CONTROL OCCUPANCY SENSOR ON FLUSH WALL MOUNTED OUTLET BOX, +45".

DUPLEX CONVENIENCE RECEPTACLE VERTICAL ON FLUSH WALL MOUNTED OUTLET BOX, +18". STEM INDICATES WALL MOUNTED OUTLET BOX, TYPICAL.

DUPLEX CONVENIENCE RECEPTACLE HORIZONTAL ON FLUSH WALL MOUNTED OUTLET BOX, + 6" ABOVE COUNTER SPLASH.

DUPLEX CONVENIENCE RECEPTACLE SPLIT WIRED, ON FLUSH WALL MOUNTED OUTLET BOX, + 18".

DOUBLE DUPLEX (FOUR-PLEX) CONVENIENCE RECEPTACLE ON ONE FLUSH WALL MOUNTED OUTLET BOX +18".

DUPLEX CONVENIENCE RECEPTACLE WITH INTERNAL GROUND FAULT INTERRUPTER, VERTICAL ON FLUSH WALL MOUNTED OUTLET BOX +18". U.N.O.

DOUBLE DUPLEX CONVENIENCE RECEPTACLE WITH INTERNAL GROUND FAULT INTERRUPTER, VERTICAL ON FLUSH WALL MOUNTED OUTLET BOX +18". U.N.O.

DUPLEX CONVENIENCE RECEPTACLE WITH INTERNAL GROUND FAULT INTERRUPTER, HORIZONTAL ON FLUSH WALL MOUNTED OUTLET BOX, +6" ABOVE COUNTER SPLASH. U.N.O.

WP — DUPLEX CONVENIENCE RECEPTACLE, WITH INTERNAL GROUND FAULT INTERRUPTER, IN FLUSH WALL MOUNTED ENCLOSURE WITH HINGED DOOR, LOCK AND KEY, +18".

WP — DUPLEX CONVENIENCE RECEPTACLE, WITH INTERNAL GROUND FAULT INTERRUPTER, ON FLUSH WALL MOUNTED OUTLET BOX WITH SPRING DOOR COVER, +18" U.N.O.

LC — DUPLEX CONVENIENCE RECEPTACLE, IN FLUSH IN WALL OUTLET BOX, +18". CONTROLLED BY THE ROOM'S LIGHTING CONTROL SYSTEM IN ACCORDANCE WITH CEC TITLE 24 LIGHTING REQUIREMENTS. PROVIDE GREEN COVER PLATE.

R — DOUBLE DUPLEX CONVENIENCE RECEPTACLE IN FLUSH FLOOR OUTLET BOX. "R" DESIGNATION INDICATES RECESSED FLOOR BOX WITH MULTI-SERVICE FITTINGS, WIREMOLD "RFB" SERIES BOX OR EQUAL.

DUPLEX CONVENIENCE RECEPTACLE, IN FLUSH FLOOR OUTLET BOX, UNLESS NOTED OTHERWISE. "R" DESIGNATION INDICATES RECESSED FLOOR BOX WITH MULTI SERVICE FITTINGS, WIREMOLD "RFB" SERVICE BOX OR EQUAL.

P — DUPLEX CONVENIENCE RECEPTACLES, BACK TO BACK, "P" INDICATES PEDESTAL TYPE ON SURFACE MOUNTED OUTLET BOX.

P — DUPLEX CONVENIENCE RECEPTACLE, ON FLUSH CEILING MOUNTED OUTLET BOX FOR PROJECTOR.

J — JUNCTION BOX, FLUSH WALL MOUNTED, +18" U.N.O.

J — JUNCTION BOX CONCEALED ABOVE ACCESSIBLE CEILING OR ON EXPOSED CEILING. U.N.O.

J — INDICATES CONNECTION TO EQUIPMENT AS REQUIRED, TYPICAL. U.N.O.

T — THERMOSTAT ON FLUSH WALL MOUNTED OUTLET BOX, REFER TO MECHANICAL DRAWINGS FOR HEIGHT AND LOCATION.

A / E-1 — PANELBOARD, ADJACENT LINE INDICATES PANEL FRONT. ADJACENT BALLOON INDICATES PANEL DESIGNATION "A", SEE DRAWING E-1 FOR PANEL SCHEDULE.

TERMINAL CABINET OR EQUIPMENT CABINET. ADJACENT LINE INDICATES CABINET FRONT.

DBA / E-1 — FLOOR STANDING SWITCHGEAR ADJACENT BALLOON INDICATES EQUIPMENT DESIGNATION "DBA", SEE DRAWING E-1 FOR SINGLE LINE DIAGRAM AND/OR SCHEDULE.

TERMINAL CABINET OR EQUIPMENT CABINET. ADJACENT LINE INDICATES CABINET FRONT.

CIRCUIT BREAKER WITH ZERO SEQUENCE GROUND FAULT RELAY SYSTEM.

TRANSFORMER; KVA, LINE AND LOAD VOLTAGE RATINGS AS INDICATED.

FUSED SAFETY SWITCH (DISCONNECT), HORSE POWER RATED. MOUNT ON WALL +45", OR ON EQUIPMENT +36". PROVIDE SWITCH AND FUSES SIZED PER EQUIPMENT MANUFACTURER REQUIREMENTS.

— PLAN NOTE

— ROOM NOTE CALLOUT

A / # — MECHANICAL/PLUMBING EQUIPMENT DESIGNATION: "A" INDICATES EQUIPMENT TYPE, "#" INDICATES EQUIPMENT TAG BASED ON MECHANICAL/PLUMBING SCHEDULE.

ABBREVIATIONS

A.F.F.	ABOVE FINISH FLOOR
A.F.G.	ABOVE FINISH GRADE
AWG	AMERICAN WIRE GAUGE
AMP, A	AMPERE
A.I.C.	AMPERES INTERRUPTING CAPACITY (SYMMETRICAL)
AF/AT	AMP FRAME, AMP TRIP
AS/AF	AMP SWITCH, AMP FUSE
CIRC., CKT.	CIRCUIT
CB	CIRCUIT BREAKER
C	CONDUIT
C.O.	CONDUIT ONLY
CONN	CONNECTED
CLCB	CURRENT LIMITING CIRCUIT BREAKER
DIA	DIAMETER
EMCS	ENERGY MANAGEMENT CONTROL SYSTEM
EMT	ELECTRICAL METALLIC TUBING
EWC	ELECTRIC WATER COOLER
E-O-L	END-OF-LINE CIRCUIT TERMINATOR
EF	EXHAUST FAN
FT OR '	FEET
FA	FIRE ALARM
FF	FURNITURE FURNISHED
FLA	FULL LOAD AMPS
GFI	GROUND FAULT INTERRUPTER
GRD	GROUND
HOA	HAND-OFF-AUTO
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
H.,W.,D.,L.	HEIGHT, WIDTH, DEPTH, LENGTH
HID	HIGH INTENSITY DISCHARGE
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
IN. OR "	INCHES
IG	ISOLATED GROUND
J-BOX	JUNCTION BOX
KVA	KILOVOLT AMPERES
KW	KILOWATT
LCL	LONG CONTINUOUS LOAD
L.F.	LINEAR FEET
LTG, LTS	LIGHTING
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUGS ONLY
MH	METAL HALIDE
MCC	MOTOR CONTROL CENTER
MCM	THOUSAND CIRCULAR MILS
MCP	MOTOR CIRCUIT PROTECTOR
MTD	MOUNTED
MW	MICROWAVE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRIC CODE
NF	NON-FUSED
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NO. OR #	NUMBER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
PRIMARY	OVER 600 VOLTS
PH. OR ⌀	PHASE
PROVIDE	FURNISH, INSTALL AND CONNECT
PA	PUBLIC ADDRESS
REC, RECEPT	RECEPTACLE
U.N.O.	UNLESS NOTED OTHERWISE

FIRE ALARM NOTES

FIRE ALARM SUBMITTAL IS A COMPLETE PLAN SUBMITTAL IN ACCORDANCE WITH PROJECT SUBMITTAL GUIDELINE, GL-2(FFL) DATED 2/10/11

CABLE INSTALLATION NOTES

(APPLIES ONLY TO DATA NETWORK)

1. WHERE ACCESSIBLE SUSPENDED T-BAR CEILINGS OCCUR, CABLING FOR THE ABOVE REFERENCED SYSTEMS SHALL BE PROVIDED ROUTED VIA CABLE TRAY/BASKET TRAY. SEE SPECIFICATIONS FOR PERFORMANCE NOTES ON CABLE INSTALLATION.

2. CONDUITS SHALL BE PROVIDED WHERE CABLES ARE INSTALLED IN WALLS, BELOW GRADE AND AREAS OTHER THAN ABOVE ACCESSIBLE SUSPENDED T-BAR CEILINGS. CABLING INSTALLED UNDERGROUND SHALL BE SUITABLE FOR UNDERGROUND INSTALLATIONS.

ANCHORAGE NOTES

Revised: July 18, 2016

MEP Component Anchorage Note
All mechanical, plumbing, and electrical components shall be anchored and installed per the details on the DSA approved construction documents. Where no detail is indicated, the following components shall be anchored or braced to meet the force and displacement requirements prescribed in the 2013 CBC, Sections 1616A.1.18 through 1616A.1.26 and ASCE 7-10 Chapter 13, 26 and 30.

1. All permanent equipment and components.
2. Temporary or movable equipment that is permanently attached (e.g. hard wired) to the building utility services such as electricity, gas or water.
3. Movable equipment which is stationed in one place for more than 8 hours and heavier than 400 pounds are required to be anchored with temporary attachments.

The following mechanical and electrical components shall be positively attached to the structure, but the attachment need not be detailed on the plans. These components shall have flexible connections provided between the component and associated ductwork, piping, and conduit.

A. Components weighing less than 400 pounds and have a center of mass located 4 feet or less above the adjacent floor or roof level that directly support the component.
B. Components weighing less than 20 pounds, or in the case of distributed systems, less than 5 pounds per foot, which are suspended from a roof or floor or hung from a wall.

For those elements that do not require details on the approved drawings, the installation shall be subject to the approval of the design professional in general responsible charge or structural engineer delegated responsibility and the DSA District Structural Engineer. The project inspector will verify that all components and equipment have been anchored in accordance with above requirements.

Piping, Ductwork, and Electrical Distribution System Bracing Note
Piping, ductwork, and electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7-10 Section 13.3 as defined in ASCE 7-10 Section 13.6.5.6, 13.6.7, 13.6.8, and 2013 CBC, Sections 1616A.1.23, 1616A.1.24, 1616A.1.25 and 1616A.1.26.

The method of showing bracing and attachments to the structure for the identified distribution system are as noted below. When bracing and attachments are based on a preapproved installation guide (e.g., SMACNA or OSHPD OPM), copies of the bracing system installation guide or manual shall be available on the jobsite prior to the start of and during the hanging and bracing of the distribution systems. The Structural Engineer of Record shall verify the adequacy of the structure to support the hanger and brace loads.

Mechanical Piping (MP), Mechanical Ducts (MD), Plumbing Piping (PP), Electrical Distribution Systems (E):

MP☐MD☐PP☐ E☐ - Option 1: Detailed on the approved drawings with project specific notes and details.

MP☐MD☐PP☐ E☐ - Option 2: Shall comply with the applicable OSHPD Pre-Approval (OPM #) #__________.

MP☐MD☐PP☐ - Option 3: Shall comply with the SMACNA Seismic Restraint Manual, OSHPD Edition (2009), including any addenda. Fasteners and other attachments not specifically identified in the SMACNA Seismic Restraint Manual, OSHPD Edition, are detailed on the approved drawings with project specific notes and details. The details shall account for the applicable Seismic Hazard Level _____ and Connection Level _____ for the project and conditions.

GENERAL NOTES

1. UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBER SHALL BE CUT. NEITHER DRILLED NOR NOTCHED. WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT.

2. CONDUITS RUN ABOVE GRADE: PROVIDE OZ COMPANY TYPE "DX" EXPANSION/DEFLEXION FITTINGS WITH BONDING JUMPER ON ALL CONDUITS AT ALL BUILDING EXPANSION OR SEISMIC JOINT CROSSINGS.

ELECTRICAL DRAWING INDEX

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APP. 03-119686 INC:
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consultant

COMPTON COLLEGE
STUDENT SERVICES BLDG.

COMPTON COMMUNITY COLLEGE DISTRICT
1111 E. ARTESIA BLVD.
COMPTON, CA 90221
owner

tBP project number: 20987.00
file name: CC_SS_E_R18_Central.rvt
drawn by: FBA checked by: RR
date: 9.03.2019

rev: date: description:

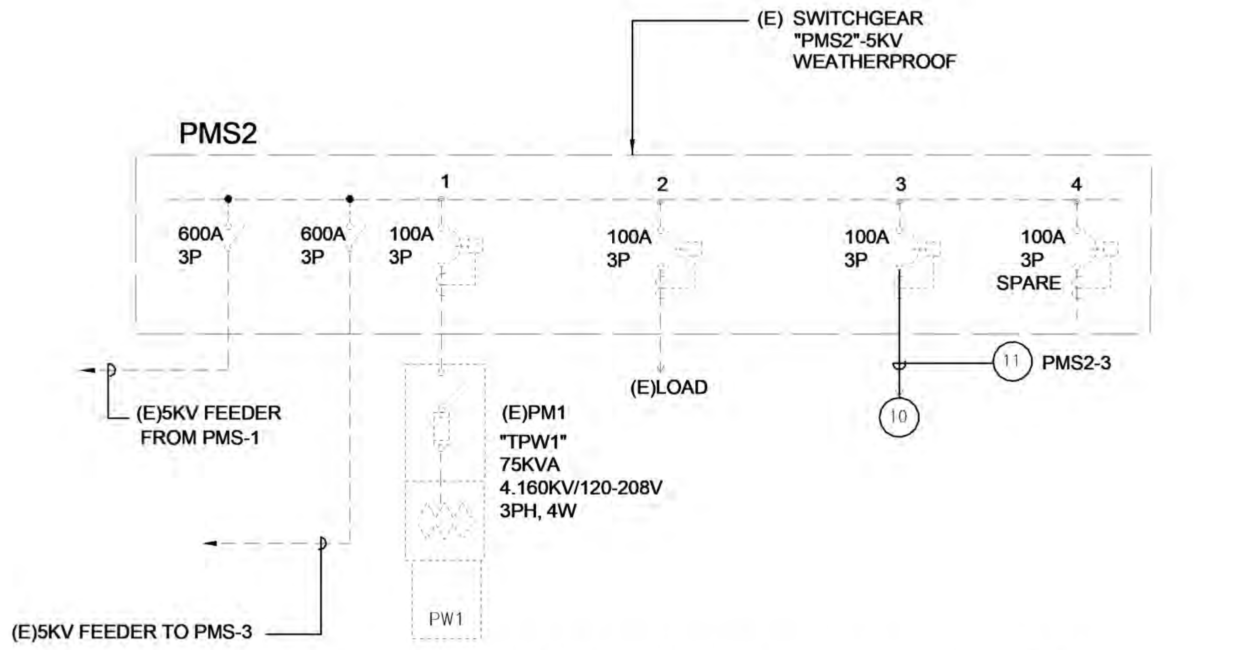
drawing title:
SYMBOL LIST, NOTES AND DETAILS

drawing no.:
E0-1

FEEDER SCHEDULE

COPPER CONDUCTORS
THW 600V (AWG)

FEEDER TYPE	CONDUIT SIZE AND QUANTITY		CONDUCTORS IN EACH CIRCUIT		
			PHASE/NEUTRAL		EQUIPMENT GROUND WIRE SIZE
	QUAN.	SIZE	QUAN.	SIZE	
F20	1	3/4"	4	12	12
F30	1	3/4"	4	10	10
F40	1	1"	4	8	10
F50	1	1 1/4"	4	6	10
F60	1	1 1/2"	4	4	10
F70	1	1 1/2"	4	4	8
F80	1	2"	4	2	8
F90	1	2"	4	2	8
F100	1	2"	4	1	8
F110	1	2"	4	1	6
F125	1	2"	4	1/0	6
F150	1	2"	4	1/0	6
F175	1	2"	4	2/0	6
F200	1	2 1/2"	4	3/0	6
F225	1	3"	4	4/0	4
F250	1	3"	4	250MCM	4
F275	1	4"	4	350MCM	4
F300	1	4"	4	350MCM	4
F350	1	4"	4	500MCM	2
F400	2	2 1/2"	4	3/0	2
F500	2	3"	4	250MCM	2
F600	2	4"	4	350MCM	1
F700	2	4"	4	500MCM	1/0
F800	3	4"	4	350MCM	1/0
F900	3	4"	4	350MCM	2/0
F1000	3	4"	4	500MCM	2/0
F1200	4	4"	4	350MCM	3/0
F1600	5	4"	4	500MCM	4/0
F2000	6	4"	4	500MCM	250MCM
F2500	7	4"	4	500MCM	350MCM
F3000	8	4"	4	500MCM	500MCM
F4000	11	4"	4	500MCM	500MCM
F20/N	1	3/4"	3	12	12
F30/N	1	3/4"	3	10	10
F40/N	1	1"	3	8	10
F50/N	1	1"	3	6	10
F60/N	1	1 1/4"	3	4	10
F70/N	1	1 1/4"	3	4	8
F80/N	1	1 1/4"	3	2	8
F90/N	1	1 1/4"	3	2	8
F100/N	1	1 1/2"	3	1	8
F110/N	1	1 1/2"	3	1	6
F125/N	1	2"	3	1/0	6
F150/N	1	2"	3	1/0	6
F175/N	1	2"	3	2/0	6
F200/N	1	2"	3	3/0	6
F225/N	1	2 1/2"	3	4/0	4
F250/N	1	2 1/2"	3	250MCM	4
F275/N	1	3"	3	350MCM	4
F300/N	1	3"	3	350MCM	4
F350/N	1	4"	3	500MCM	2
F400/N	2	2"	3	3/0	2
F500/N	2	2 1/2"	3	250MCM	2
F600/N	2	3"	3	350MCM	1
F700/N	2	4"	3	500MCM	1/0
F800/N	3	3"	3	350MCM	1/0
F350/U	-	-	-	-	-
F400/U	2	3"	4	4/0	2
F500/U	2	4"	4	350MCM	1/0
F600/U	2	4"	4	500MCM	2/0
F700/U	2	4"	4	500MCM	2/0
F800/U	3	4"	4	350MCM	2/0
F900/U	3	4"	4	500MCM	4/0
F1000/U	3	4"	4	500MCM	4/0
F1200/U	4	4"	4	500MCM	250MCM
F1600/U	6	4"	4	500MCM	250MCM
F2000/U	8	4"	4	500MCM	350MCM
F2500/U	9	4"	4	500MCM	500MCM
F3000/U	11	4"	4	500MCM	500MCM
F4000/U	15	4"	4	500MCM	500MCM
F350/NU	-	-	-	-	-
F400/NU	2	3"	3	4/0	2
F500/NU	2	4"	3	350MCM	1/0
F600/NU	2	4"	3	500MCM	1/0
F700/NU	2	4"	3	500MCM	1/0
F800/NU	3	4"	3	350MCM	2/0
F60/DN	1	1 1/2"	3/1	4/1	10
F100/DN	1	2"	3/1	1/2/0	8
F125/DN	1	2 1/2"	5	1/0	6
F150/DN	1	2 1/2"	5	1/0	4
F225/DN	1	3"	5	4/0	4
F300/DN	1	4"	5	350MCM	2
F400/DN	2	3"	5	3/0	2
F600/DN	2	4"	5	350MCM	1
F800/DN	3	5"	5	350MCM	1/0
F1200/DN	4	4"	5	350MCM	3/0
F1600/DN	5	5"	5	500MCM	4/0



SINGLE LINE DIAGRAM - PMS2 A
NTS E0-2

REFER TO SHEET E0-3 FOR SHORT CIRCUIT, VOLTAGE DROP AND LOAD CALCULATIONS.

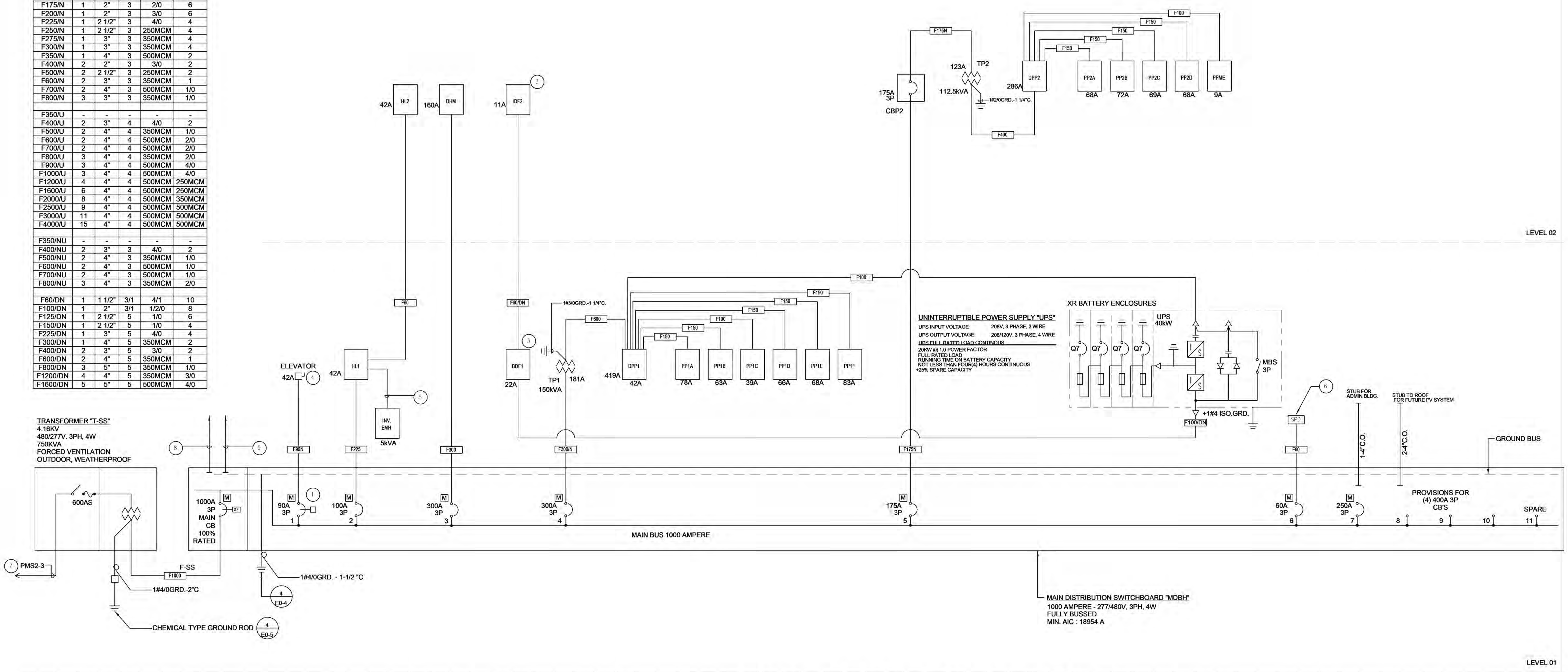
PLAN NOTES:

1. PROVIDE SHUNT TRIP MECHANISM ON MAIN CIRCUIT BREAKER SERVING THE ELEVATOR. THE HEAT DETECTORS IN THE ELEVATOR MACHINE ROOM AND ON TOP OF ELEVATOR SHAFT, UPON DETECTION OF HEAT, SHALL SHUTDOWN POWER TO THE ELEVATOR. INSTALL IN ACCORDANCE WITH ASME 17.1, NFPA AND ELEVATOR MANUFACTURER'S REQUIREMENTS.
2. PROVIDE (3) 2/0, 8KV, 115 MIL/133%, EPR, MV-105 UL CLASS & TEMP RATING, T5 SHIELDING, COPPER, (1) #1/0 GRD. - (N) 5"C.
3. 225 AMPERE - 120/208V.3PH.4W ELECTRONIC GRADE PANELBOARD WITH MAIN CIRCUIT BREAKER, INTERNAL TRANSIENT VOLTAGE SURGE SUPPRESSION (TVSS), EQUIPMENT GROUND AND ISOLATED GROUND BUS.
4. PROVIDE HEAVY DUTY DISCONNECT SWITCH WITH 100A-90AF-600Vac-3P IN NEMA 3R ENCLOSURE.
5. PROVIDE 3/4"C - 2#10, 1#10 GRD.
6. PROVIDE SURGE PROTECTION DEVICE.
7. TO PMS2. SEE PMS2 SINGLE LINE ON THIS SHEET.
8. PROVIDE 1" CONDUIT WITH SPECIFIED CONDUCTOR TO BUILDING EMS PANEL.
9. PROVIDE 1" CONDUIT WITH SPECIFIED CONDUCTORS TO BDF DATA RACK.
10. TO "T-SS" COMBINATION OF HV SWITCH AND TRANSFORMER.
11. PROVIDE SHUNT TRIP TYPE CIRCUIT BREAKER FOR ELEVATOR MOTOR. INTERCONNECT THE BREAKER WITH FIRE ALARM CONTROL RELAY MODULE IN ELEVATOR'S MACHINE ROOM.

SINGLE LINE DIAGRAM GENERAL NOTES:

1. ALL FEEDER LENGTHS INDICATED ON THE SINGLE LINE DIAGRAM ARE ONLY FOR CALCULATION PURPOSES AND NOT FOR TAKE-OFF.
2. THE GROUNDING ELECTRODE, CONDUCTOR SIZE, AND THE NEUTRAL BOND AT THE GENERATOR AND SWITCHBOARD BOTH REQUIRE SIGNS INSTALLED AT THE SERVICE.
3. UNLESS NOTED OTHERWISE, ALL 480/277V PANELS SHALL BE RATED FOR MINIMUM 14,000 AMP. AIC. REFER TO SHORT CIRCUIT CALCULATIONTABLE ON SHEET E0-3 FOR PANEL WITH LARGER AIC RATING THAN 1400A.
4. UNLESS NOTED OTHERWISE, ALL 208/120V PANELS SHALL BE RATED FOR MINIMUM 10,000 AMP. AIC.
5. MAIN SWITCHBOARD SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT. THE FIELD MARKING(S) SHALL INCLUDE THE DATE THE FAULT-CURRENT CALCULATION WAS PERFORMED. CEC 110.24(A).
6. ARC FLUSH HAZARD WARNING LABEL ON SWITCHBOARD SHALL BE PROVIDED IN ACCORDANCE WITH CEC 110.16.
7. MAIN SERVICE DISCONNECT SHALL BE MARKED PERMANENTLY IN ACCORDANCE WITH CEC 230.70(B).

ROOF



SINGLE LINE DIAGRAM - STUDENT SERVICES B
NTS E0-2

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rev:	date:	description:

drawing title:
SINGLE LINE DIAGRAMS

drawing no.:
E0-2

PLAN NOTES:

1. PROVIDE PANIC HARDWARE FOR ELECTRICAL ROOM DOOR. SEE SHEET A1-1 AND DETAIL #010, SHEET 8.01 DOOR SCHEDULE.
2. ONE-HOUR FIRE RATED WALL. SEE SHEET A1-1 AND DETAILS #9 AND #16, SHEET 4.01.

PROJECT NAME:COMPTON COLLEGE STUDENT SERVICE BLDG.							TRANSFORMER:"2T"						
COMPTON COMMUNITY COLLEGE DISTRICT							PRIMARY VOLTAGE(P-P): 480V 4160V			SECONDARY VOLTAGE(P-P):			480
SUBJECT:SHORT CIRCUIT CALCULATION AT 480 V PANELS							TRANS. Z=	4.5		TRANS. KVA=		750	
							TRANS. SEC. X=			0.01382			
							MOTOR CONTRIBUTION:100%			AIC AT SECON.		25058.6	
SOURCE PANEL	DESTINATION PANEL	FEEDER DESIG.	WIRE SIZE		R 1000'	X 1000'	FDR L	FDR R	FDR X	TOTAL R	TOTAL X	TOTAL Z	AIC AT PANEL
T-SS	MDBH	TF-SS	500MCM	4	0.007	0.010	80	0.0005	0.0008	0.0005	0.01460	0.015	18954.5
MDBH	HL1	MDBH2	1	1	0.150	0.046	15	0.0023	0.0007	0.0028	0.01529	0.016	17817.6
MDBH	DHM	MDBH3	350MCM	1	0.038	0.040	25	0.0010	0.0010	0.0015	0.01560	0.016	17671.5
MDBH	TP1	MDBH-4	1/O	1	0.120	0.044	15	0.0018	0.0007	0.0156	0.00066	0.016	17713.3
MDBH	CBP2	MDBH-5	2/O	1	0.100	0.043	25	0.0025	0.0011	0.0030	0.01568	0.016	17343.9
HL1	HL2	HL1-1	4	1	0.190	0.045	10	0.0019	0.0005	0.0047	0.01574	0.016	16861.8
MDBH	TP1	MDBH-4	1/O	1	0.120	0.044	15	0.0018	0.0007	0.0023	0.01526	0.015	17937.7

PROJECT NAME:COMPTON COLLEGE STUDENT SERVICE BLDG.							TRANSFORMER:"TP1"						
COMPTON COMMUNITY COLLEGE DISTRICT							PRIMARY VOLTAGE(P-P): 480V			SECONDARY VOLTAGE(P-P):			208
SUBJECT:SHORT CIRCUIT CALCULATION AT 208 V PANELS							TRANS. Z=	4.5		TRANS. KVA=		150	
							TRANS. SEC. X=			0.01298			
							MOTOR CONTRIBUTION:100%			AIC AT SECON.		11565.5	
SOURCE PANEL	DESTINATION PANEL	FEEDER DESIG.	WIRE SIZE		R 1000'	X 1000'	FDR L	FDR R	FDR X	TOTAL R	TOTAL X	TOTAL Z	AIC AT PANEL
TP1	DPP1	TP1-1	350MCM	2	0.019	0.020	10	0.0002	0.0002	0.0002	0.01318	0.013	9104.3
DPP1	PP1A*	DPP1-1	1/O	1	0.120	0.044	10	0.0012	0.0004	0.0014	0.01362	0.014	8765.6

* TYPCAL FOR PANELS PP1B, PP1C, PP1D, PP1E AND PP1F

PROJECT NAME:COMPTON COLLEGE STUDENT SERVICE BLDG.							TRANSFORMER:"TP2"						
COMPTON COMMUNITY COLLEGE DISTRICT							PRIMARY VOLTAGE(P-P): 480V			SECONDARY VOLTAGE(P-P):			208
SUBJECT:SHORT CIRCUIT CALCULATION AT 208 V PANELS							TRANS. Z=	4.5		TRANS. KVA=		112.5	
							TRANS. SEC. X=			0.01731			
							MOTOR CONTRIBUTION:100%			AIC AT SECON.		8674.13	
SOURCE PANEL	DESTINATION PANEL	FEEDER DESIG.	WIRE SIZE		R 1000'	X 1000'	FDR L	FDR R	FDR X	TOTAL R	TOTAL X	TOTAL Z	AIC AT PANEL
TP2	DPP2	TP2-1	3/O	2	0.039	0.021	10	0.0004	0.0002	0.0004	0.01752	0.018	6849.4
DPP2	PP2A*	DPP1-1	1/O	1	0.120	0.044	10	0.0012	0.0004	0.0016	0.01796	0.018	6657.3

* TYPCAL FOR PANELS PP2B, PP2C, PP2D, PPME

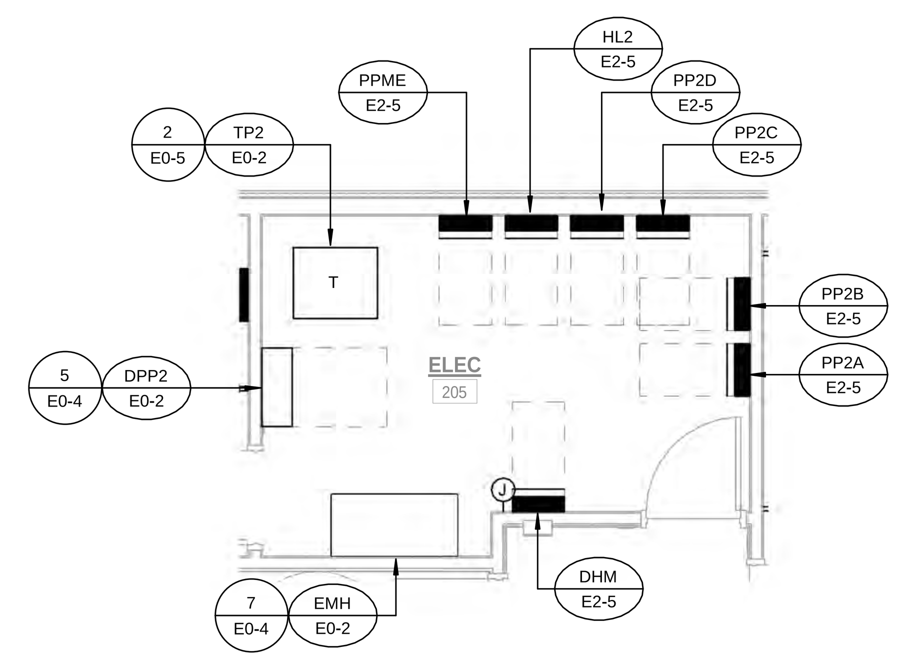
COMPTON COLLEGE STUDENT SERVICE BLDG

MAIN SWITCHBOARD "MDBH" LOAD CALCULATION

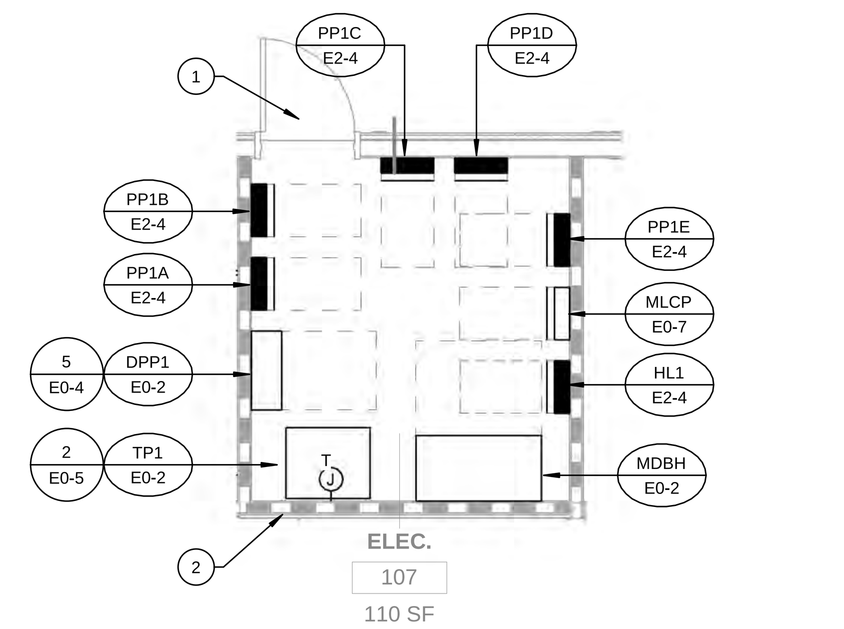
LOAD DESCRIPTION	CONNECTED (KVA)	CONNECTED CURRENT(A)	REMARKS
PANEL HL1	23268	28	
ELEVATOR	34902	42	
PANEL DHM	147918	178	
PANEL DPP1	150411	181	
PANEL DPP2	237666	286	
ADMIN BLDG BACKFEED, 9800 SF AT 15W/SF	147000	176.9	
TOTAL CONNECTED LOADS	741165	892	
DEMAND LOAD CALCULATION:			
ADMIN AND SS BLDGS AREAS(SF):	46800		
WATTS/SF:	15.84		
FIRST 3 WATTS AT 100%	140400		
3-20 WATTS AT 75%	450574		
TOTAL CONNECTED POWER(VA) :	590974		
TOTAL CONNECTED CURRENT(A):	711.16		

PROJECT:	COMPTON COLLEGE STUDENT SERVICE BLDG.									SUBJECT:	VOLTAGE DROP CALCULATION				
	212220.000									480/277 V					
DISTRIBUTION BOARD	DESTINATION PANEL	FEEDER DESIG.	WIRE SIZE		R (1000')	X (1000')	L(feet)	RL	XL	PHASE	V	I	COS(pf)	SIN	VD%
T-SS	MDBH	F1000	500MCM	3	0.0097	0.0160	80	0.0008	0.0013	3	277	1000	0.85	0.53	0.48
MDBH	ELEVATOR	F90/N	1	3	0.0533	0.0190	30	0.0016	0.0006	3	277	42	0.85	0.53	0.03
MDBH	HL1	F100	1	3	0.0533	0.0190	10	0.0005	0.0002	3	277	28	0.85	0.53	0.01
MDBH	DHM	F-400	3/O	2	0.0395	0.0260	120	0.0047	0.0031	3	277	30	0.85	0.53	0.06
MDBH	TP1	F250/N	250mcm	1	0.0540	0.0520	15	0.0008	0.0008	3	277	172	0.85	0.53	0.07
MDBH	TP2	F175/N	2/O	1	0.1000	0.0540	15	0.0015	0.0008	3	277	172	0.85	0.53	0.11

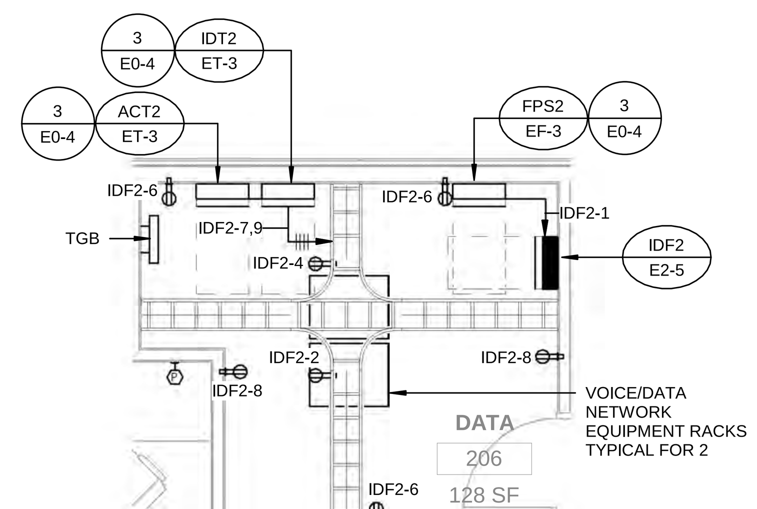
PROJECT:	COMPTON COLLEGE STUDENT SERVICE BLDG.									SUBJECT:	VOLTAGE DROP CALCULATION				
PROJECT NO:	212220.000									208/120 V					
DISTRIBUTION BOARD	FEEDER NO	FEEDER DESIG.	WIRE SIZE		R (1000')	X (1000')	L(feet)	RL	XL	PHASE	V	I	COS(pf)	SIN	VD%
DPP1	DPP1-1	F-150	1/O	1	0.1200	0.0550	20	0.0024	0.0011	3	120	78	0.85	0.53	0.17
DPP1	DPP1-2	F-150	1/O	1	0.1200	0.0550	20	0.0024	0.0011	3	120	63	0.85	0.53	0.14
DPP1	DPP1-3	F-150	1	1	0.1600	0.0570	20	0.0032	0.0011	3	120	39	0.85	0.53	0.11
DPP1	DPP1-4	F-150	1/O	1	0.1200	0.0550	20	0.0024	0.0011	3	120	66	0.85	0.53	0.14
DPP1	DPP1-5	F-150	1/O	1	0.1200	0.0550	20	0.0024	0.0011	3	120	68	0.85	0.53	0.15
DPP1	DPP1-6	F-150	1/O	1	0.1200	0.0550	20	0.0024	0.0011	3	120	83	0.85	0.53	0.18
DPP2	DPP2-1	F-150	1/O	1	0.1200	0.0550	20	0.0024	0.0011	3	120	68	0.85	0.53	0.15
DPP2	DPP2-2	F-150	1/O	1	0.1200	0.0550	20	0.0024	0.0011	3	120	72	0.85	0.53	0.16
DPP2	DPP2-3	F-150	1/O	1	0.1200	0.0550	20	0.0024	0.0011	3	120	69	0.85	0.53	0.15
DPP2	DPP2-4	F-150	1/O	1	0.1200	0.0550	20	0.0024	0.0011	3	120	68	0.85	0.53	0.15
DPP2	DPP2-5	F-150	1	1	0.1600	0.0570	20	0.0032	0.0011	3	120	9	0.85	0.53	0.02



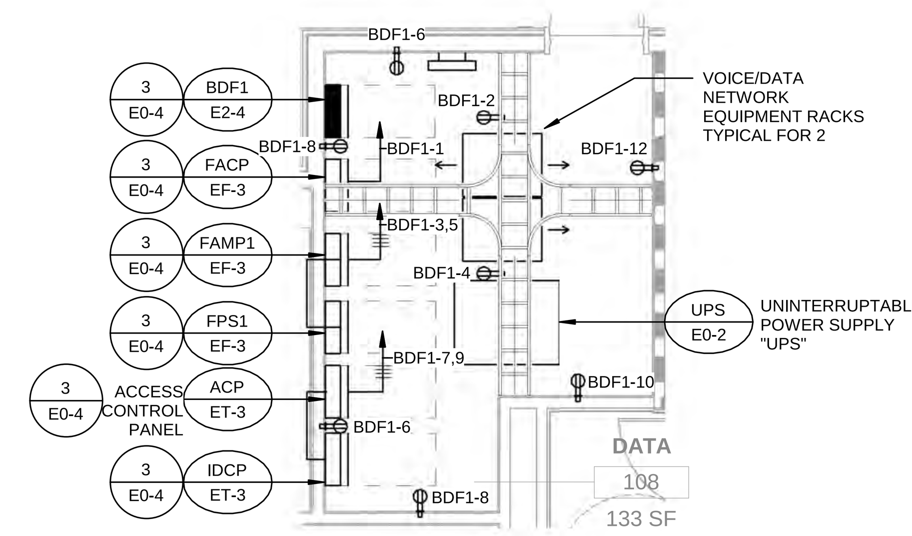
2ND FLOOR ENLARGED ELECTRICAL ROOM 2
SCALE 1/4" = 1'-0"



1ST FLOOR ENLARGED ELECTRICAL ROOM 1
SCALE 1/4" = 1'-0"



2ND FLOOR ENLARGED IDF ROOM 4
SCALE 1/4" = 1'-0"



1ST FLOOR ENLARGED BDF ROOM 3
SCALE 1/4" = 1'-0"

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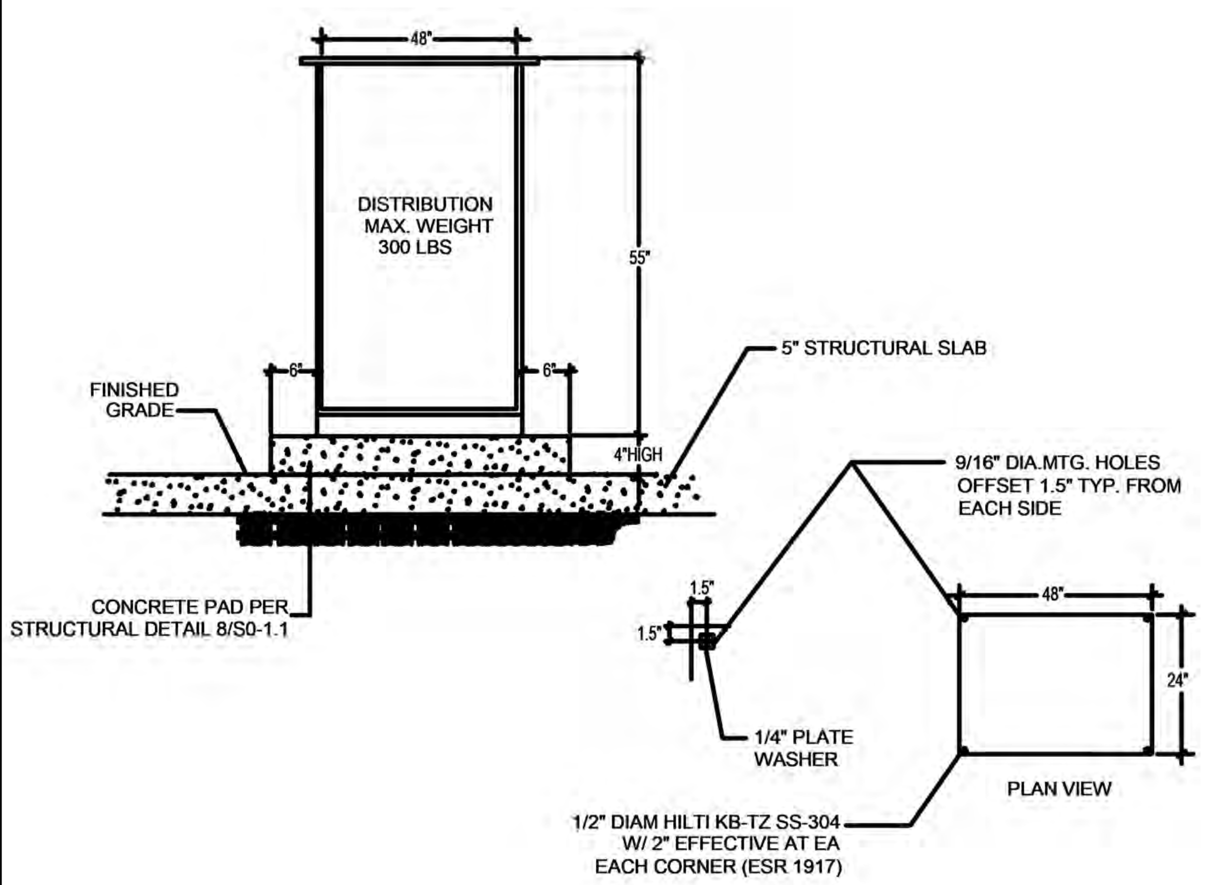
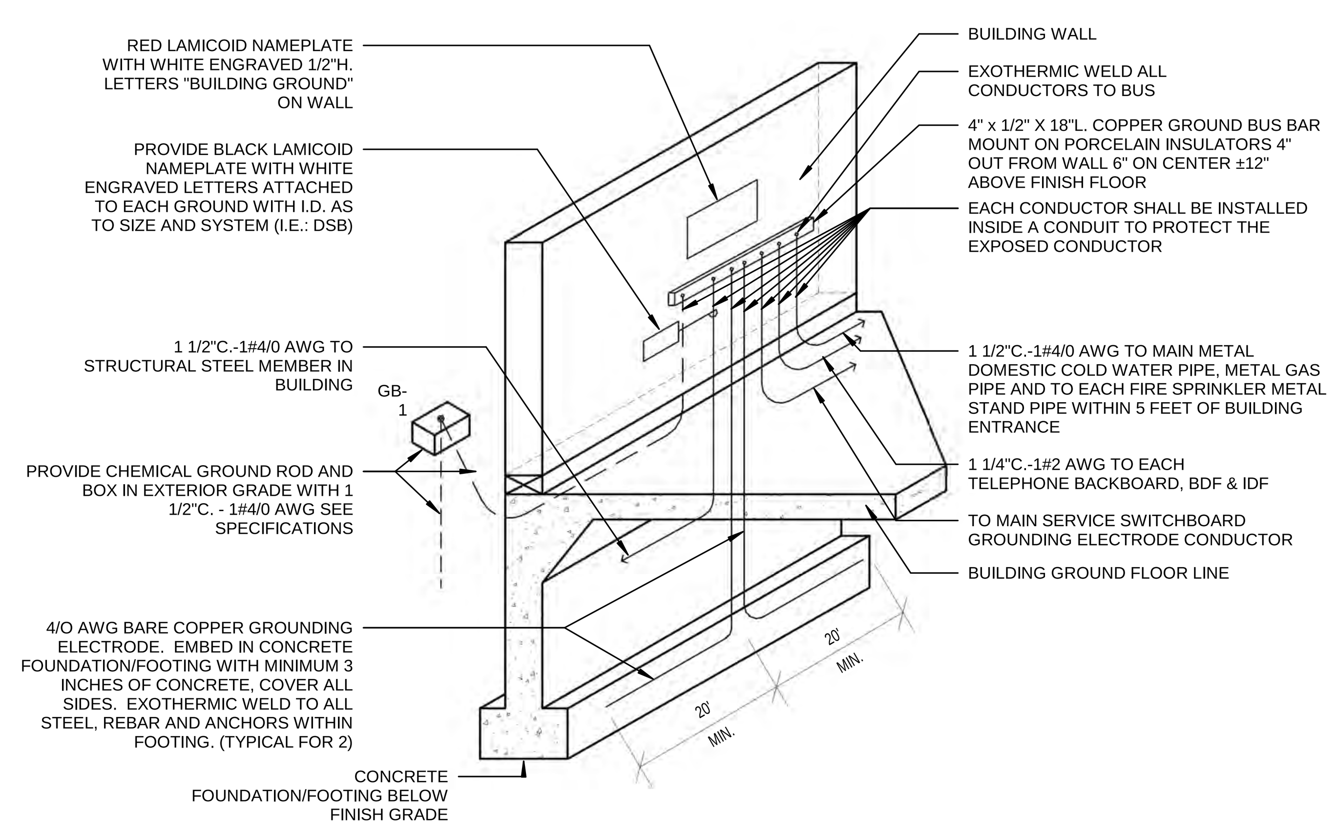
ENLARGED ELECTRICAL AND TELECOM ROOMS

drawing no.:
E0-3



INVERTER ANCHORAGE DETAIL | SCALE N.T.S. | 7



BUILDING ELECTRICAL SERVICE GROUND BUS DETAIL | SCALE N.T.S. | 4

1. WALL ASSEMBLY -- THE 1 OR 2 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED THE MATERIALS AND IN THE MANNER SPECIFIED IN OF THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

A. STUDS -- WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. OC. STEEL STUDS TO BE MIN 2-1/2 IN. WIDE AND SPACED MAX 24 IN. OC. WHEN STEEL STUDS ARE USED AND THE DIAM OF OPENING EXCEEDS THE WIDTH OF STUD CAVITY, THE OPENING SHALL BE FRAMED ON ALL SIDES USING LENGTHS OF STEEL STUD INSTALLED BETWEEN THE VERTICAL STUDS AND SCREW-ATTACHED TO THE STEEL STUDS AT EACH END. THE FRAMED OPENING IN THE WALL SHALL BE 4 TO 6 IN. WIDER AND 4 TO 6 IN. HIGHER THAN THE DIAM. OF THE PENETRATING ITEM SUCH THAT WHEN THE PENETRATING ITEM IS INSTALLED IN THE OPENING, A 2 TO 3 IN. CLEARANCE IS PRESENT BETWEEN THE PENETRATING ITEM AND THE FRAMING ON ALL FOUR SIDES.

B. GYPSUM BOARD* -- 5/8 IN. THICK, 4 FT WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM BOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 32-1/4 IN. FOR STEEL STUD WALLS. MAX DIAM OF OPENING IS 14-1/2 IN. FOR WOOD STUD WALLS. THE F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE FIRE RATING OF THE WALL ASSEMBLY.

2. THROUGH-PENETRANTS -- ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE SHALL BE MIN 0 IN. TO MAX 2-1/4 IN. PIPE MAY BE INSTALLED WITH CONTINUOUS POINT CONTACT. PIPE, CONDUIT OR TUBING MAY BE INSTALLED AT AN ANGLE NOT GREATER THAN 45 DEGREES FROM PERPENDICULAR. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:

A. STEEL PIPE -- NOM 30 IN DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.

B. IRON PIPE -- NOM 30 IN. DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE.

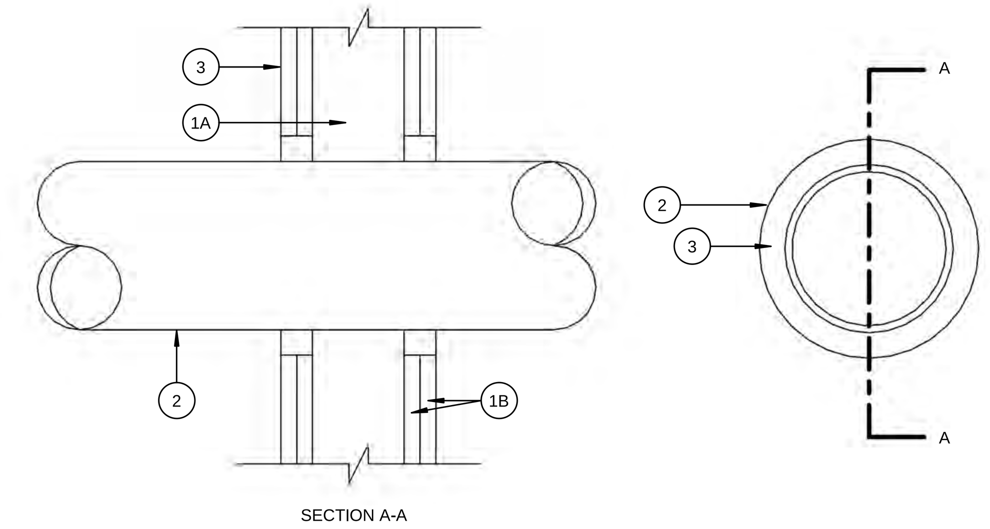
C. CONDUIT -- NOM 4 IN DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR 6 IN. DIAM STEEL CONDUIT.

D. COPPER TUBING -- NOM 6 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.

E. COPPER PIPE -- NOM 6 IN. DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.

3. FILL, VOID OR CAVITY MATERIAL* -- SEALANT -- MIN 5/8 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. AT THE POINT OR CONTINUOUS CONTACT LOCATIONS BETWEEN PIPE AND WALL, A MIN 1/2 IN. DIAM BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE PIPE WALL INTERFACE ON BOTH SURFACES OF WALL .

HILTI CONSTRUCTION CHEMICALS, DIV OF
HILTI INC -- FS-ONE SEALANT
*BEARING THE UL CLASSIFICATION MARK

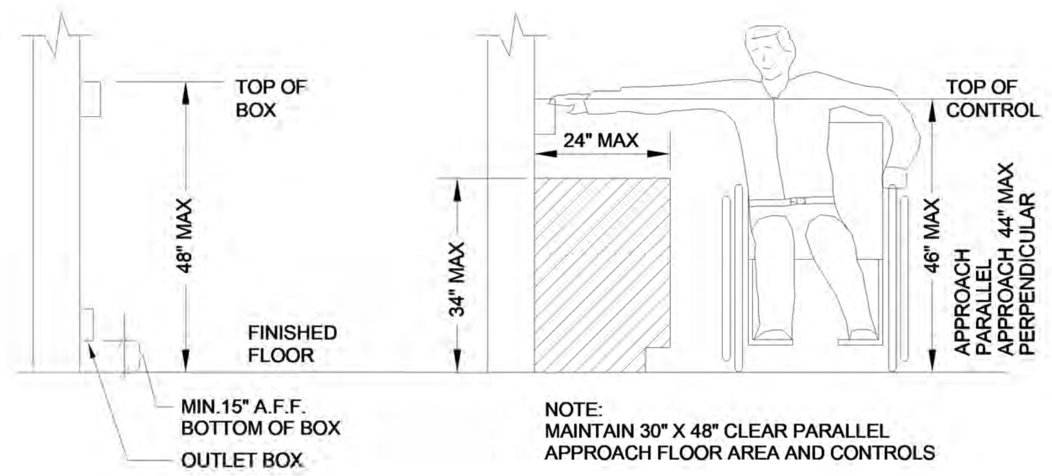


SECTION A-A

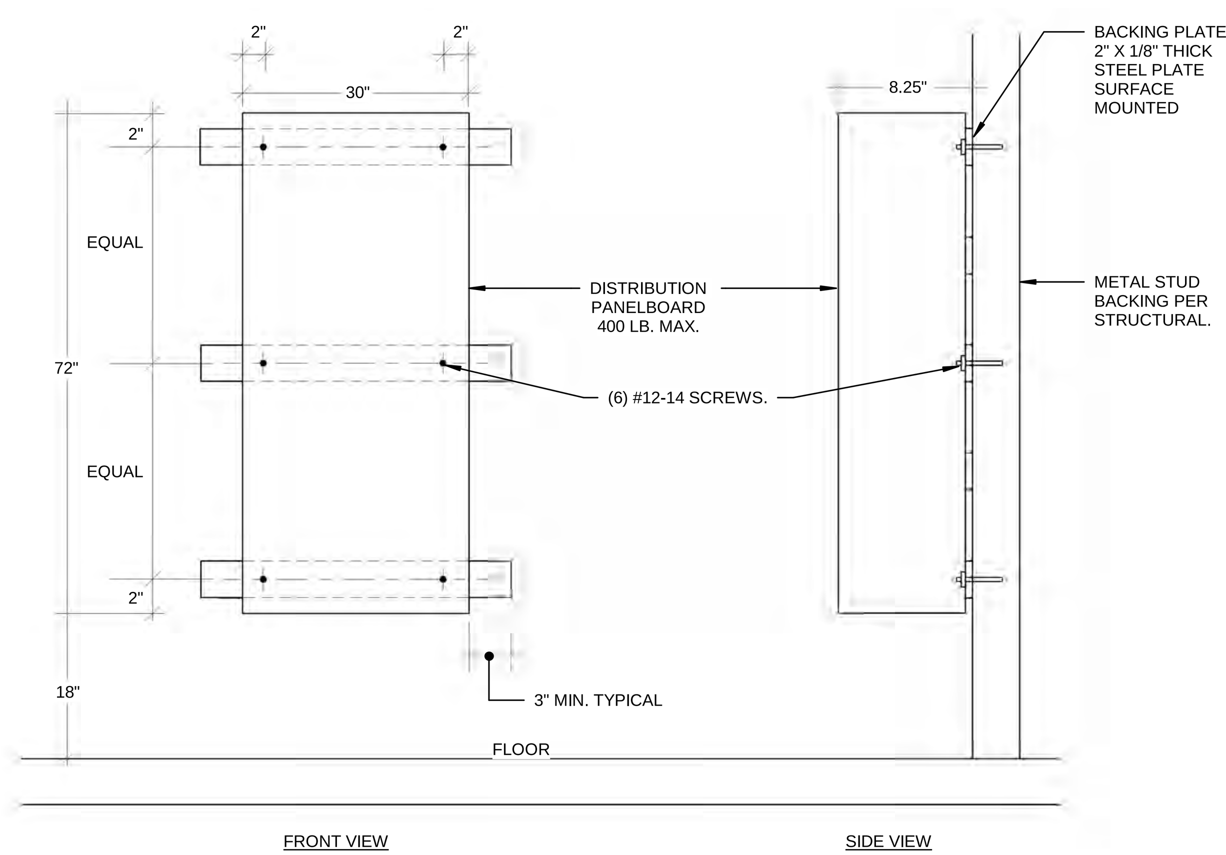
System No. W-L-1054
F Ratings - 1 and 2 Hr (See Items 1 and 3)
T Rating - 0 Hr

L Rating At Ambient - Less Than 1 CFM/Sq Ft
L Rating At 400 F - 4 CFM/Sq Ft

RATED STUD WALL FIRE STOP DETAIL | SCALE N.T.S. | 1



MOUNTING HEIGHT OVER OBSTRUCTION | SCALE N.T.S. | 8



DISTRIBUTION PANELBOARD ANCHORAGE | SCALE N.T.S. | 5

1. FLOOR OR WALL ASSEMBLY MIN 4-1/2 IN. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX DIAM OF OPENING IS 32 IN.

2. METALLIC SLEEVE (OPTIONAL) NOM 32 IN. DIAM (OR SMALLER) SCHEDULE 40 (OR HEAVIER) STEEL SLEEVE CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY, FLUSH WITH FLOOR OR WALL SURFACES.

3. THROUGH-PENETRANT ONE METALLIC PIPE OR CONDUIT TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND PERIPHERY OF OPENING SHALL BE MIN 0 IN. (POINT CONTACT) TO MAX 1-7/8 IN. PIPE MAY BE INSTALLED WITH CONTINUOUS POINT CONTACT. PIPE OR CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR CONDUITS MAY BE USED:

A. STEEL PIPE: NOM 30 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.

B. IRON PIPE: NOM 30 IN. DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE.

C. COPPER PIPE: NOM 6 IN. DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.

D. COPPER TUBING: NOM 6 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.

E. CONDUIT: NOM 6 IN. DIAM (OR SMALLER) STEEL CONDUIT.

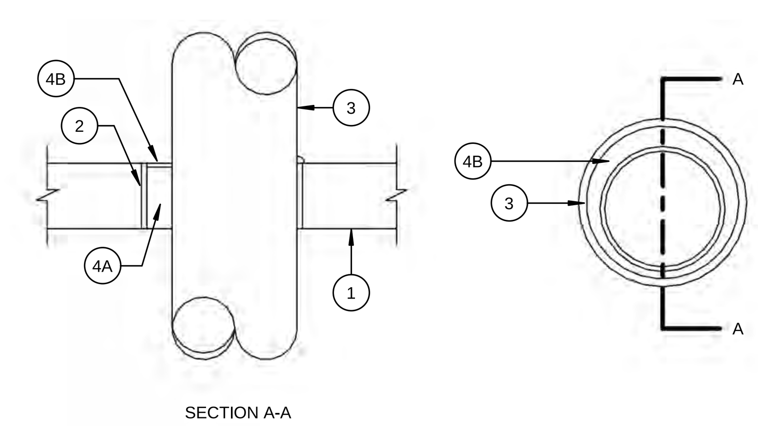
F. CONDUIT: NOM 4 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING (EMT).

4. FIRE STOP SYSTEM THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:

A. PACKING MATERIAL MIN 4 IN. THICKNESS OF MIN 4 PCF MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.

B. FILL, VOID OR CAVITY MATERIAL* -- SEALANT MIN 1/4 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR OR WITH BOTH SURFACES OF WALL. AT THE POINT OR CONTINUOUS CONTACT LOCATIONS BETWEEN PIPE AND CONCRETE, A MIN 1/4 IN. DIAM BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE CONCRETE/PIPE INTERFACE ON THE TOP SURFACE OF FLOOR AND ON BOTH SURFACES OF WALL.

HILTI CONSTRUCTION CHEMICALS, DIV OF
HILTI INC - FS-One Sealant
*Bearing the UL Classification Marking

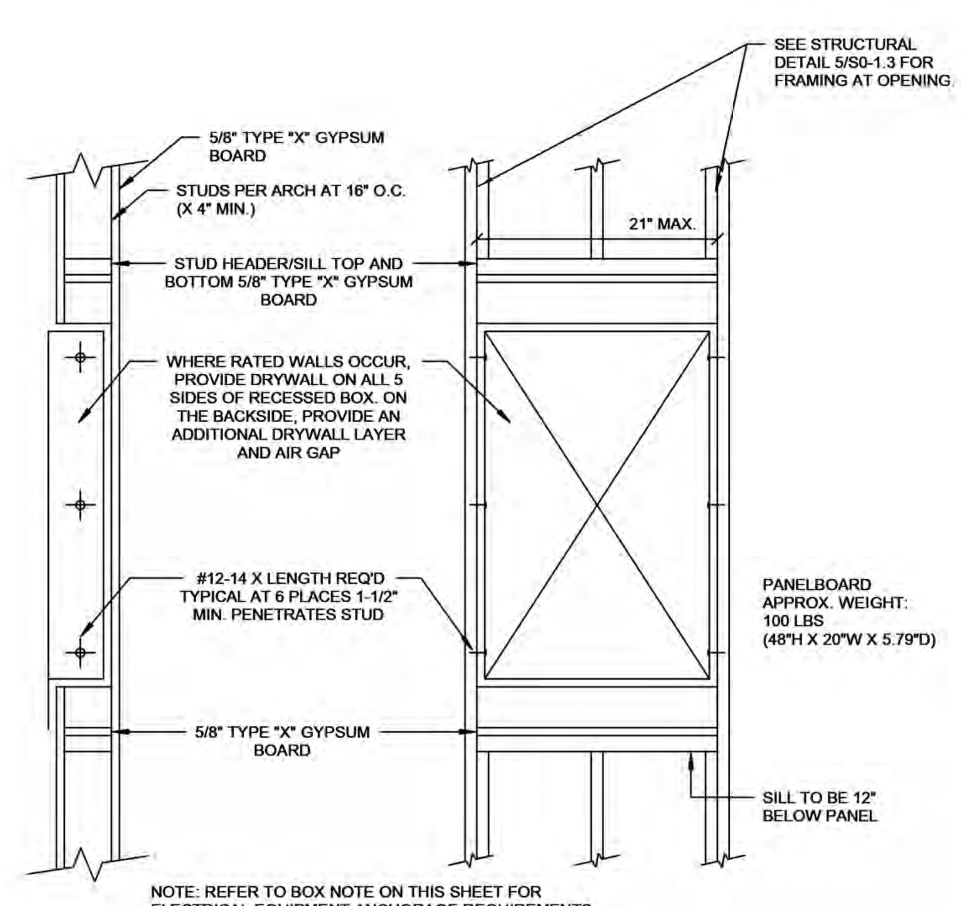


SECTION A-A

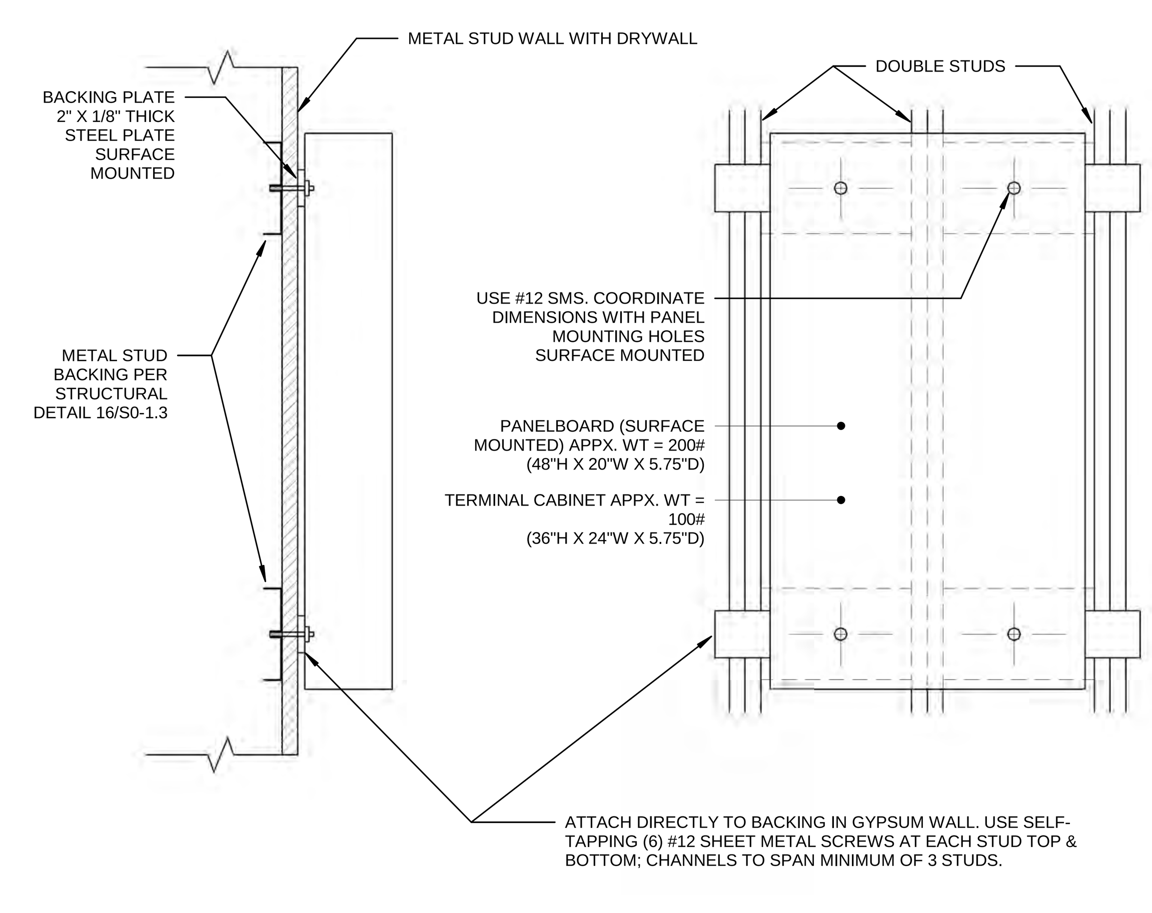
System No. C-AJ-1226
F RATING = 3-HR.
T RATING = 0-HR.

L Rating At Ambient - Less than 1 CFM/Sq Ft
L Rating At 400 F - 4 CFM/Sq Ft

RATED CONCRETE FLOOR/WALL SINGLE CONDUIT FIRE STOP DETAIL | SCALE N.T.S. | 2



PANELBOARD/TERMINAL CABINET ANCHORAGE - FLUSH | SCALE N.T.S. | 6



SURFACE MOUNTED PANELBOARD/TERMINAL CABINET ANCHORAGE | SCALE N.T.S. | 3

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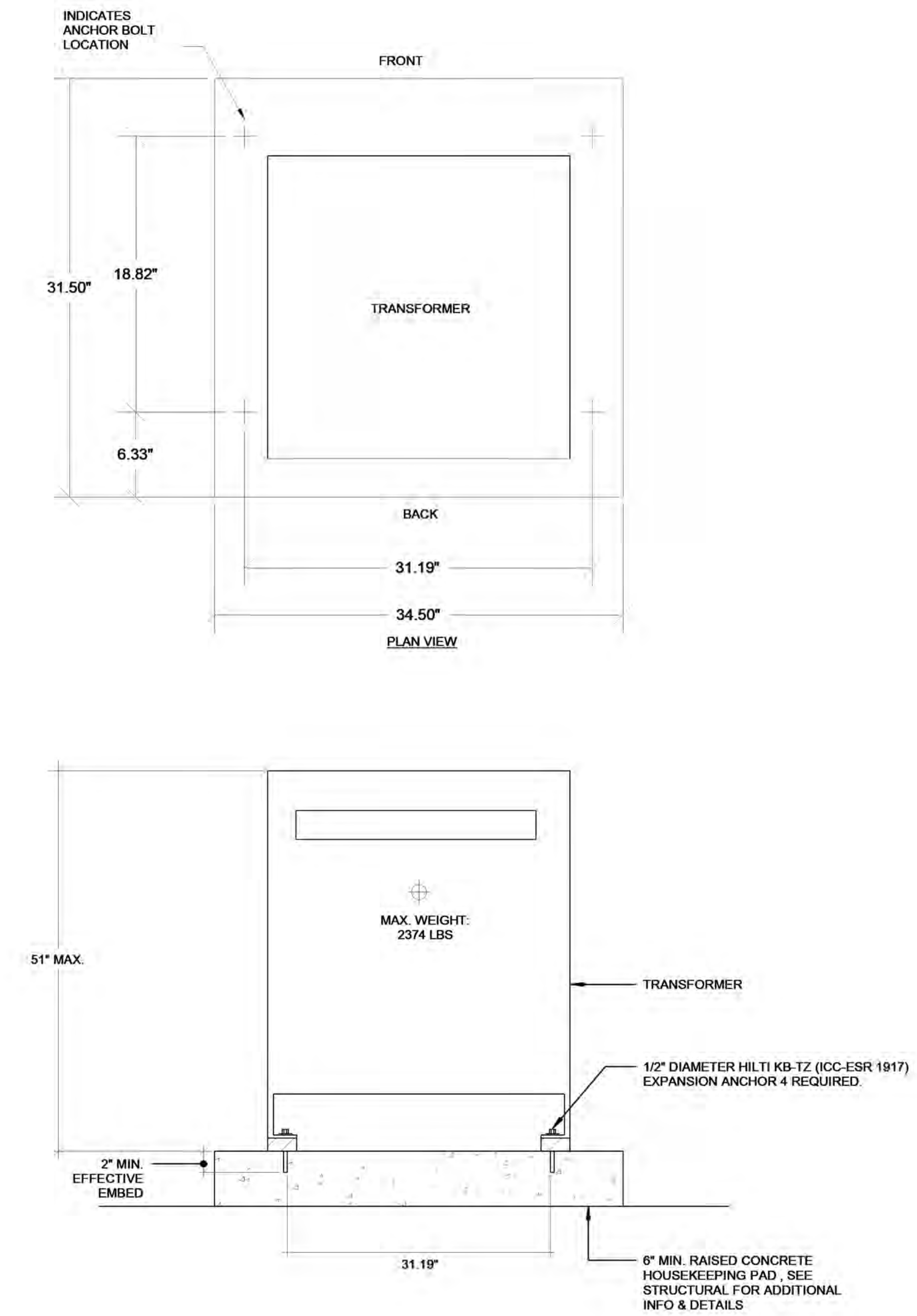
FBAEngineering
consultant

COMPTON COLLEGE
STUDENT SERVICES BLDG.
COMPTON COMMUNITY COLLEGE DISTRICT
1111 E. ARTESIA BLVD.
COMPTON, CA 90221
owner

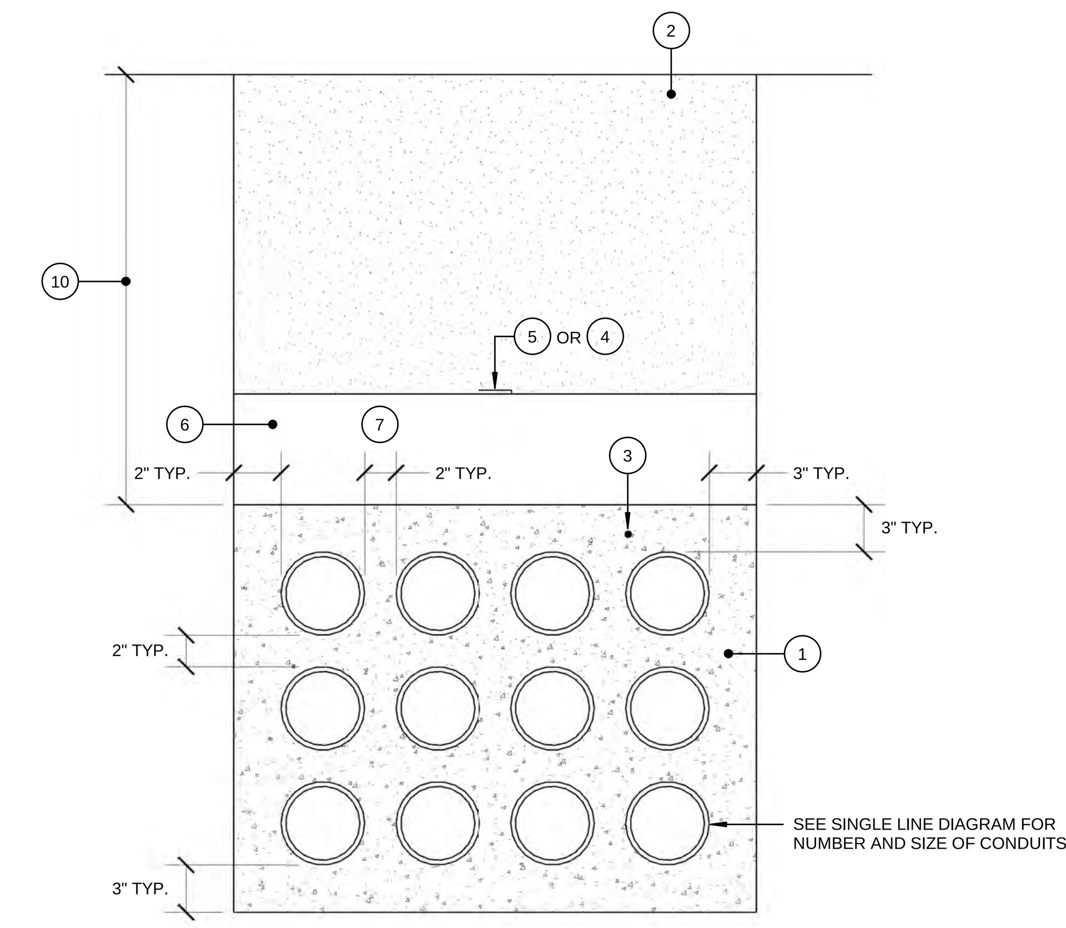
tBP project number: 20987.00
file name: CC_SS_E_R18_Central.rvt
drawn by: FBA checked by: RR
date: 9.03.2019
rev: date: description:

drawing title:
DETAILS

drawing no.:
E0-4



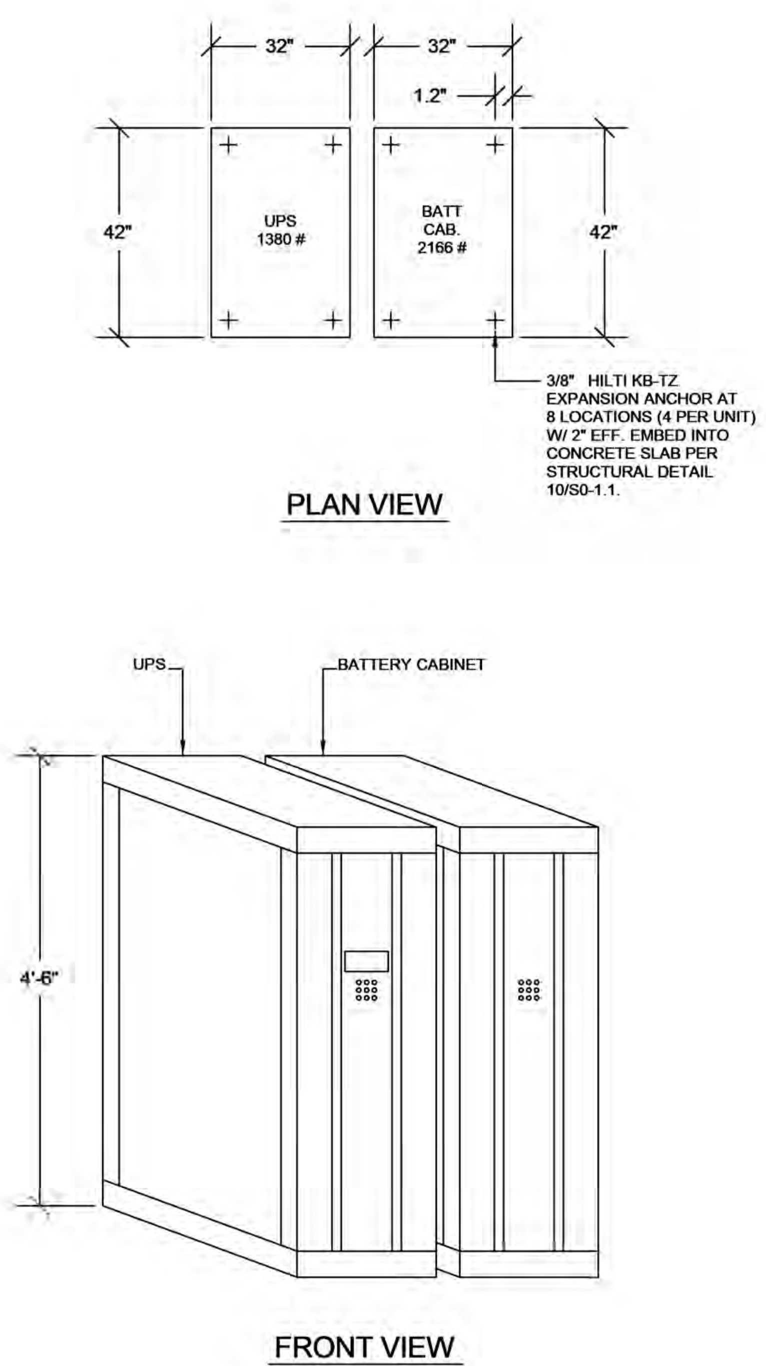
TYPICAL TRANSFORMER ANCHORAGE DETAIL | SCALE N.T.S. | 2



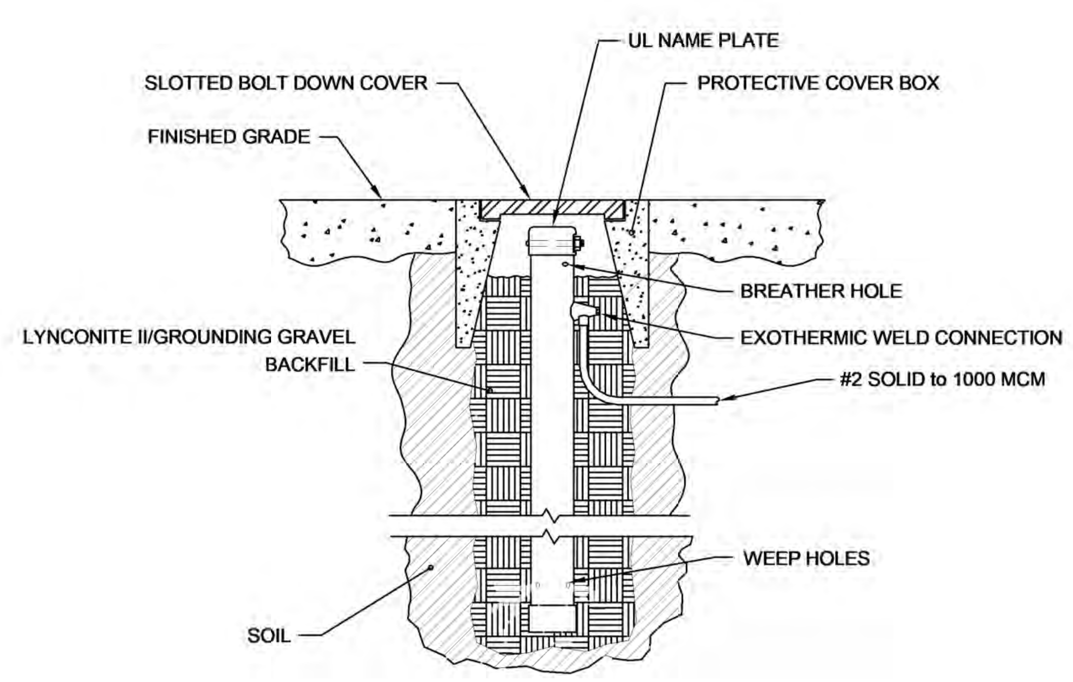
DRAWING SHEET PLAN NOTES

1. CAST-IN PLACE RED MIX CONCRETE CONTINUOUS ENTIRE LENGTH.CONCRETE COVERAGE NOT LESS THAN 3-INCH ALL SIDES OF CONDUIT DUCT BANK.
2. NATIVE SOIL BACKFILL.
3. CONTINUOUS 1#4/0 BARE COPPER DUCT BANK BONDING/GROUND CONDUCTOR.
4. CONTINUOUS 5 INCH CONDUIT AND 4160 VOLT CIRCUIT POWER CONDUCTORS.
5. 3" WIDE WARNING TAPE LOCATED 12" BELOW GRADE. TAPE SHALL INDICATE: "CAUTION BURIED ELECTRICAL CONDUIT".
6. DAMP SAND BACKFILL TO WITHIN 12" OF FINISH GRADE.
7. INTRA-CONDUIT SPACING 2 INCH.
8. HOMERUN AND CONNECT EQUIPMENT BOND CONDUCTOR TO BUILDING EQUIPMENT GROUND BUS - GB.
9. 1"C. - 1#8, CONNECT TO CABLE TRENCH EXPOSED METAL COVER/FRAME FOR CONTINUOUS BOND/GROUND OF EACH ISOLATED METAL COMPONENTS.
10. 36" IN TRAFFIC AREAS, 24" IN NON-TRAFFIC AREAS.

UNDERGROUND CONDUIT DUCT BANK DETAIL | SCALE N.T.S. | 1



UPS ANCHORAGE DETAIL | SCALE N.T.S. | 5



LYNCOLE XIT GROUNDING SYSTEM

STRAIGHT SHAFT MODEL: INFORMATION & SPECIFICATIONS

A. Manufacturer: Lyncole XIT Grounding, 3547 Voyager St., Ste. 204 Torrance, CA 90503, Phone 800-962-2610. www.Lyncole.com

B. Shaft configuration: Straight.
Standard lengths: 10', 12', 20' & 40', or custom.

C. UL and CSA Listing: 467.

D. Lynconite II and Grounding Gravel backfill meet ANSI/NSF Enviromental Standard 60.

E. Material: Type K Copper 0.083" nominal wall thickness.

F. Construction: Hollow tube, 2.125" O.D., filled with non-hazardous salts (Calsolyte).

G. Weight: 3.5 lbs per lineal foot.

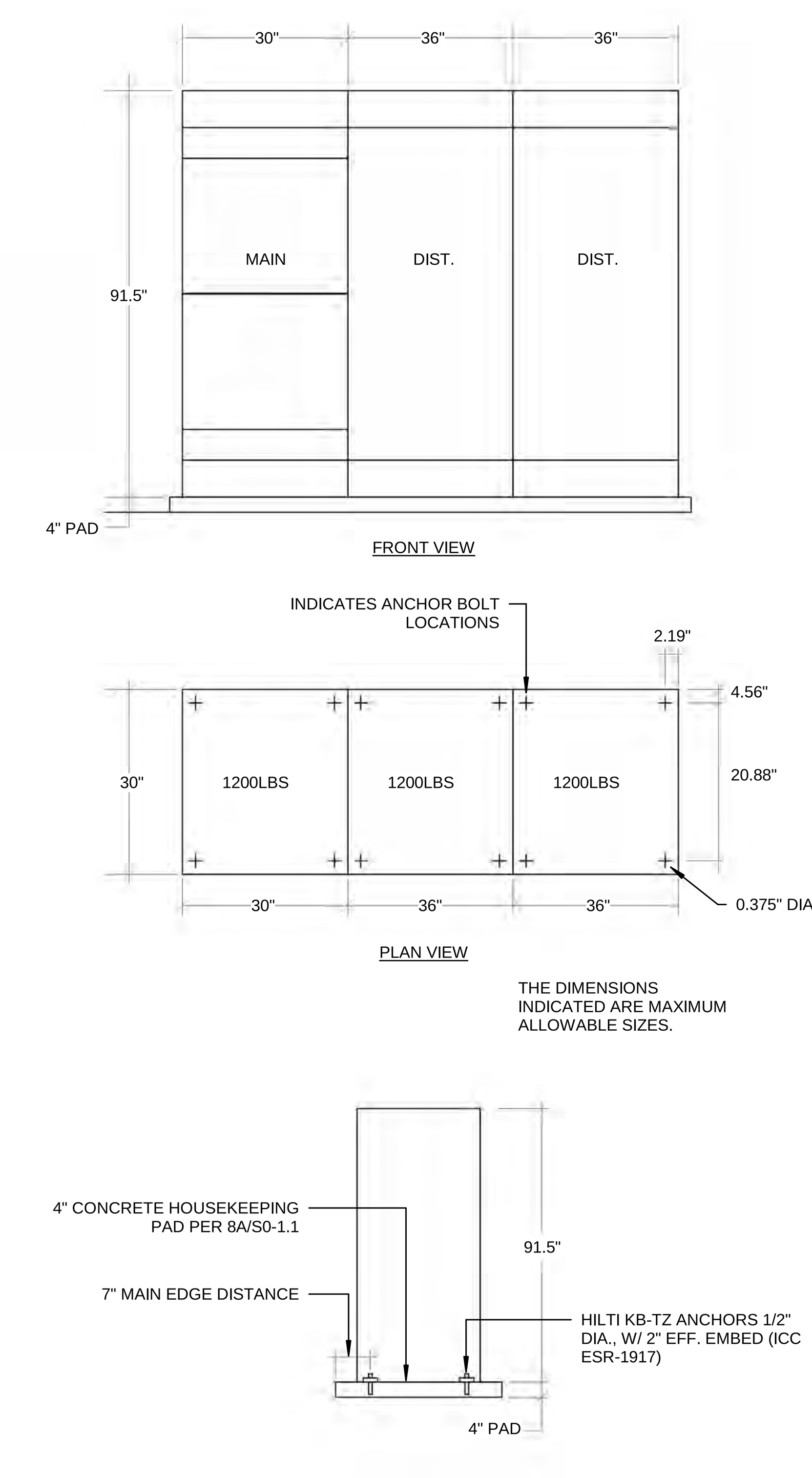
H. Ground Wire Termination: Exothermic connection to conductors from #2 solid AWG to 1000 MCM. U-bolt with pressure plate provided as test point.

I. Warranty: 30 years. Minimum Life Expectancy: 50 years.

J. Straight Shaft Model No: K2-10CS, K2-12CS, K2-20CS, K2-2-40CS (coupled 20 ft. sections)

K. GSA Contract pricing Available.

CHEMICAL GROUND ROD DETAIL | SCALE N.T.S. | 4



DISTRIBUTION SWITCHBOARD ANCHORAGE | SCALE N.T.S. | 3

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architect

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drawn by: FBA checked by: RR
date: 9.03.2019
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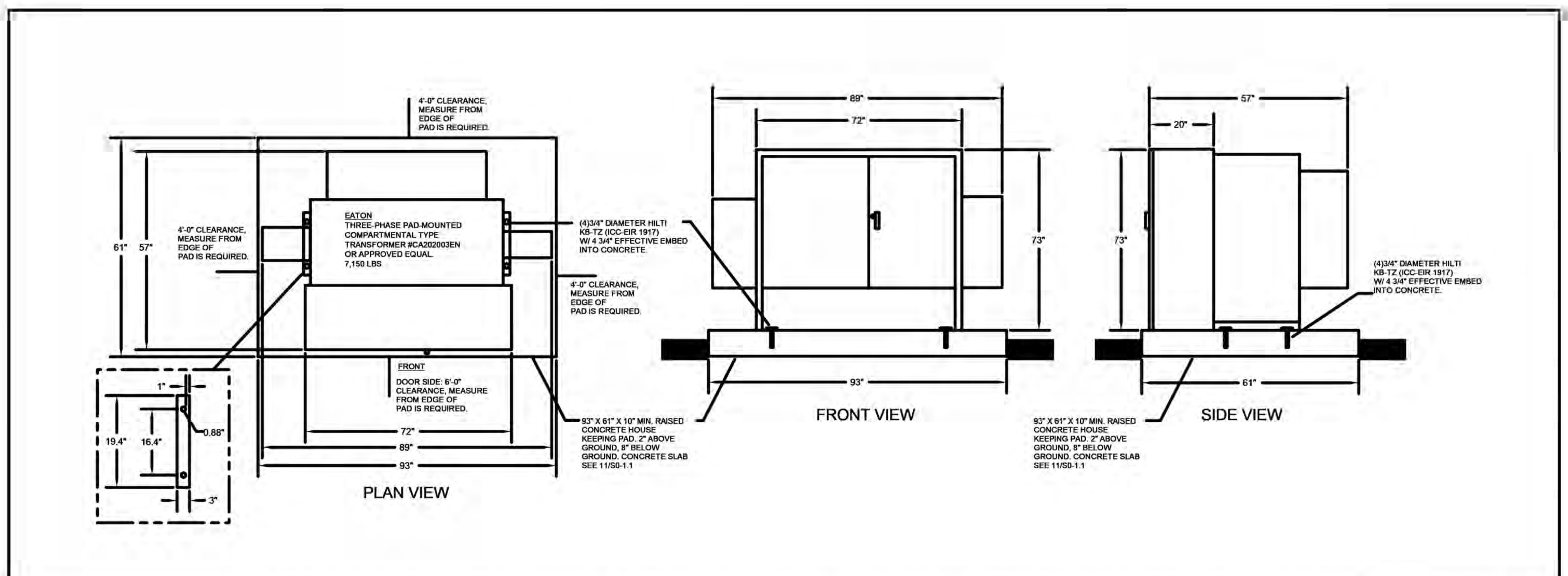
drawing title:
DETAILS

drawing no.:
E0-5

ELECTRICAL EQUIPMENT SCHEDULE

Panel Name	Location	SHEET NUMBER	EQUIPMENT/SYSTEM DESCRIPTION	MAX WEIGHT (LBS.)	HEIGHT (IN.)	LENGTH (IN.)	WIDTH (IN.)	MOUNTING TYPE	ANCHOR DETAIL
LEVEL 1									
PP1C	ELEC. 107	E0-3	PANELBOARD	200	48	20	6	WALL	3/E0-4
PP1B	ELEC. 107	E0-3	PANELBOARD	200	48	20	6	WALL	3/E0-4
DPP1	ELEC. 107	E0-3	DISTRIBUTION BOARD	400	90	36	24	FLOOR	3/E0-5
TP1	ELEC. 107	E0-3	TRANSFORMER	620	49	41	32	FLOOR	2/E0-5
MBDH	ELEC. 107	E0-3	SWITCHBOARD	1200	90	45	36	FLOOR	3/E0-5
HL1	ELEC. 107	E0-3	PANELBOARD	200	48	20	6	WALL	3/E0-4
LCP	ELEC. 107	E0-3	PANELBOARD	200	48	20	6	WALL	3/E0-4
PP1A	ELEC. 107	E0-3	PANELBOARD	200	48	20	6	WALL	3/E0-4
PP1D	ELEC. 107	E0-3	PANELBOARD	200	48	20	6	WALL	3/E0-4
PP1E	ELEC. 107	E0-3	PANELBOARD	200	48	20	6	WALL	3/E0-4
LEVEL 2									
PP2D	ELEC 205	E0-3	PANELBOARD	200	48	20	6	WALL	3/E0-4
PP2C	ELEC 205	E0-3	PANELBOARD	200	48	20	6	WALL	3/E0-4
PP2B	ELEC 205	E0-3	PANELBOARD	200	48	20	6	WALL	3/E0-4
PP2A	ELEC 205	E0-3	PANELBOARD	200	48	20	6	WALL	3/E0-4
DPP2	ELEC 205	E0-3	DISTRIBUTION BOARD	400	90	36	24	FLOOR	3/E0-5
HL2	ELEC 205	E0-3	PANELBOARD	200	48	20	6	WALL	3/E0-4
TP2	ELEC 205	E0-3	TRANSFORMER	620	49	41	32	FLOOR	2/E0-5
PPME	ELEC 205	E0-3	PANELBOARD	200	48	20	6	WALL	3/E0-4
DHM	ELEC 205	E0-3	PANELBOARD	200	48	20	6	WALL	3/E0-4
EMH	ELEC 205	E0-3	INVERTER	605	76	25	48	FLOOR	4/E0-4



TRANSFORMER WITH LOAD INTERRUPTER SWITCH ANCHORAGE DETAIL

SCALE NONE 1

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EQUIPMENT ANCHORAGE SCHEDULE

drawing no.:
E0-6

LIGHTING FIXTURE SCHEDULE

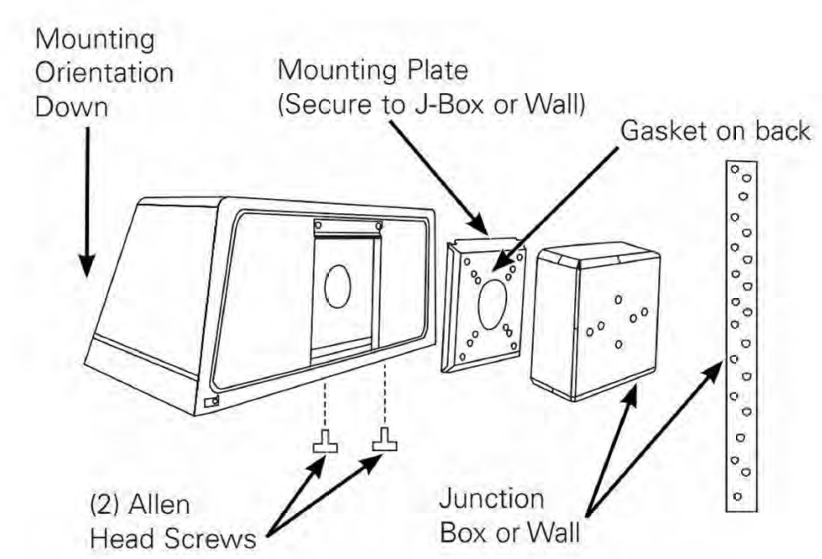
FIXTURE TYPE	Count	Image	LIGHT FIXTURE DESCRIPTION	FIXTURE MAXIMUM TOTAL INPUT WATTS	FIXTURE MOUNTING	LAMP TYPE	LAMP COLOR TEMPERA TURE K	LAMP CRI, NOT LESS THAN	TOTAL ALL LAMPS INITIAL MINIMUM LUMEN OUTPUT	LAMP QUANTITY	WEIGHT	MOUNTIN G DETAIL	CATALOG NUMBER
A1	306		LED 2X4 LUMINAIRE WITH STEEL HOUSING AND DIE FORMED WHITE PAINTED REFLECTOR; SINGLE PIECE DIFFUSED LENS WITH CONVEX WINGS; LUMINOUS CENTER SPLINE WITH WHITE TRIM. INTEGRAL 0-10V. DIMMABLE DRIVER(S).	53	RECESSED	LED	4000	80	5500		27.3 LBS	B/E0-7	FOCAL POINT "EQUATION 2" SERIES #FEQ2-24-MG-5500LH-40K-1C-UNV-LH1-G-WH. FINELITE, NC. HPR-A-2X4-SCO-H-LED1(LUTRON)-VOLT-SC-C1 OR EQUAL
B1	87		LED DOWNLIGHT; 6" APERTURE.	29	RECESSED/CEILING	LED	4000	80	2500		5 LBS		FOCAL POINT "ID +6" SERIES #FLC6D-RO-2500L-277-LH1-T-BH-LC6-RD-40K-DN-CD-NP V2 LIGHTING C3CP-N-Z(LED1 LUTRON)-30-83-40-40-S-XX-XX-WH OR EQUAL.
C1	13		LED STRIP LIGHT, LENSED, 4 FOOT LENGTH; INTEGRAL 0-10V. DIMMING BALLAST.	25	SURFACE	LED	4000	80	3186		8.2 LBS		METALUX "SNLED" SERIES #4SNLED-LD5-LN-UNV-L840-CD-1-AYC HE WILLIAMS, INC. 75R-4-L30/840-(2)VBY-3/PWU-DIM-UNV OR EQUAL.
D1	18		LED 1X4 LUMINAIRE WITH STEEL HOUSING AND DIE FORMED WHITE PAINTED REFLECTOR; SINGLE PIECE DIFFUSED LENS WITH CONVEX WINGS; LUMINOUS CENTER SPLINE WITH WHITE TRIM. INTEGRAL 0-10V. DIMMABLE DRIVER(S).	26	RECESSED	LED	4000	80	2500		19.4 LBS		FOCAL POINT "EQUATION 2" SERIES #FEQ2-14-AC-2500L-40K-1C-UNV-LH1-F-WH FINELITE, INC. HPR-A-1X4-DCO-S-LED1(LUTRON)-VOLT-SC-C1 OR EQUAL.
SL1	23		LED DOWNLIGHT; 6" APERTURE.	29	RECESSED/CEILING	LED	4000	80	2500		5 LBS		FOCAL POINT "ID +6" SERIES #FLC6D-RO-2500L-277-LH1-T-BH-LC6-RD-40K-DN-CD-NP HE WILLIAMS, INC. 6DR-TL-L30/840-ELDO ECO1-UNV-OW-OF-SG-N-F1 OR EQUAL.
SL2	7		LED SHARP CUT OFF WALL LIGHT; TRAPEZOIDAL SHAPE; INTEGRAL DRIVER; WET LOCATION.	27	WALL	LED	4000	80	2420		25.10 LBS	C/E0-7	WE-FE LIGHTING "OLV344 LED" SERIES #622-7721-40K-80-2420LM HE WILLIAMS, INC. VWPV-L30/740-T3-DBZ-CGL-DIM-UNV OR EQUAL
SL3	13		LED DECORATIVE WALKWAY LIGHT; TYPE IV DISTRIBUTION; ON 12'-0", 4" DIAMETER, 7 GUAGE STEEL POLE; 120 LUXEON LED EMITTERS; ADVANCE DRIVER; INTERNAL WIRELESS LED CONTROLLER; OCCUPANCY SENSOR; FIXTURE AND POLE FINISH AS SELECTED BY ARCHITECTS; PROVIDE COMPLETE WITH ANCHOR BOLTS AND BOLT COVER.	140	POLE	LED	4000	82	5816		20 LBS	A/E0-7	FORMULA TECHNOLOGIES #SBMTL-2626-IV-120LED-208V-350MA 12'(4" ROUND) 7 GUAGE STRAIGHT STEEL POLE. FINISH AS SELECTED BY ARCHITECT.
SL4	6		LED DOWNLIGHT; 6" APERTURE. INTEGRAL DIMMING DRIVER. WET LOCATION LISTED.	44.1	WALL	LED	4000	80	3977.5				LITHONIA LIGHTING "LDN6CYL" SERIES #LDN6CYL-40K-40L-L06-AR-LSS-MVOLT-GZ10-WM-WL. V2 LIGHTING C4SS-D-V-W-40-83-40-51-XX OR EQUAL.
X1	22		LED EXIT SIGN, EDGE LIT, GREEN LETTERS, MIRRORED BACKING, WALL MOUNT.	3	CEILING	LED							ISOLITE "ELT-FT" SERIES #ELT-AC-G-1M-2M-WH-RC EMERGI-LITE WLX-42/43N-G-M-UA-2CKT OR EQUAL.

Grand total: 495

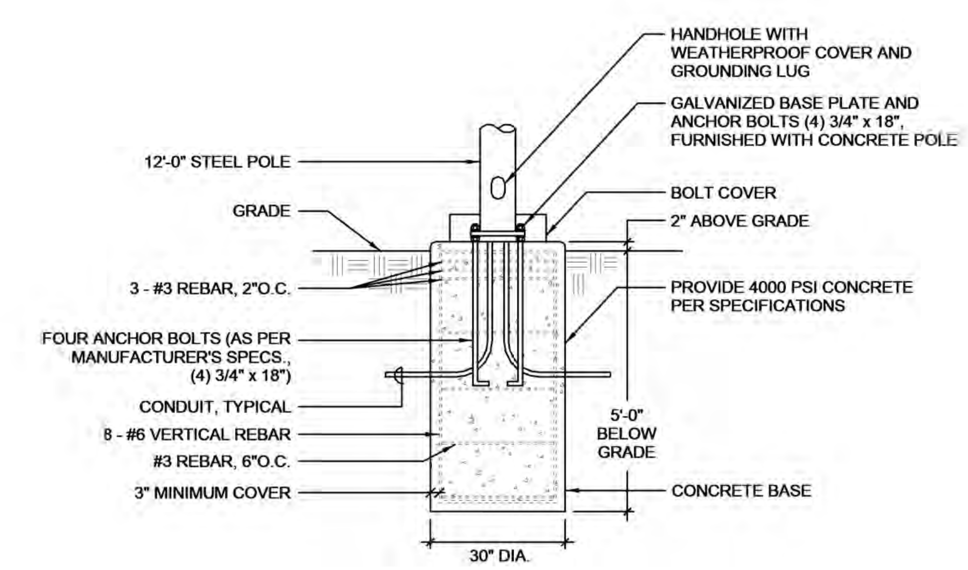
FIXTURE NOTES

(NOTE: REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

1. FIXTURES LOCATED OUTDOORS SHALL BE RATED FOR STARTING AND OPERATING TEMPERATURES BELOW 0-DEGREES FAHRENHEIT.
2. FIXTURES WITH THE SAME TYPE # SHALL BE THE PRODUCTS OF THE SAME MANUFACTURER, (I.E., TYPE #1, 1A, 1B, ETC., SHALL BE THE SAME MANUFACTURER).
3. THE CONTRACTOR SHALL VERIFY ACTUAL CEILING AND WALL CONSTRUCTION TYPE AS DEFINED ON THE ARCHITECTURAL DRAWINGS AND FURNISH LIGHTING FIXTURES WITH THE CORRECT AND COMPLETE MOUNTING HARDWARE AND MOUNTING DEVICES TO ACCOMMODATE BUILDING CONSTRUCTION AT EACH INSTALL LOCATION, WHETHER OR NOT SUCH VARIATIONS ARE INDICATED BY THE FIXTURE CATALOG NUMBER.
4. THE CONTRACTOR SHALL VERIFY DEPTH OF ALL RECESSED LIGHTING FIXTURES WITH ARCHITECTURAL DRAWINGS PRIOR TO ORDERING FIXTURES. ANY DISCREPANCIES THAT WILL CAUSE RECESSED FIXTURES NOT TO FIT INTO CEILING/WALL SPACES SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE PRIOR TO SUBMITTING SHOP DRAWINGS AND PRIOR TO ORDERING FIXTURES.
5. LIGHT FIXTURES RECESSED IN CEILING OR WALL WITH A ONE HOUR OR MORE FIRE RATING BUILDING CONSTRUCTION, EACH FIXTURE SHALL BE ENCLOSED IN A BOX WHICH HAS A FIRE RATING EQUAL TO THAT OF THE BUILDING CONSTRUCTION. PROVIDE MINIMUM OF 3" CLEAR FROM ALL SIDES AND TOP OF RECESSED LIGHT FIXTURES.
6. WALL AND CEILING INSULATION SHALL BE INSTALLED TO ALLOW 3" MINIMUM CLEARANCE FROM BOTTOM, SIDES AND TOP OF RECESSED LIGHT FIXTURES.
7. VERIFY MOUNTING HEIGHT OF ALL WALL MOUNTED FIXTURES WITH ARCHITECT PRIOR TO ROUGH-IN.
8. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS AND WALL ELEVATIONS FOR EXACT INSTALL LOCATION OF ALL FIXTURES.
9. VERIFY VOLTAGE BEING SUPPLIED TO FIXTURES PRIOR TO SUBMITTING SHOP DRAWINGS AND PRIOR TO ORDERING. FIXTURE VOLTAGE SHALL MATCH BRANCH CIRCUITS CONNECTING TO RESPECTIVE FIXTURE.
10. SUSPENDED MOUNT LIGHT FIXTURES THAT MAY STRIKE STRUCTURAL ELEMENTS, WALL OR MECHANICAL DUCT WORK IF SWIVELED AT +45-DEGREES SHALL BE SWAY BRACED WITH AIR CRAFT CABLE TO PREVENT STRIKING SAID APPURTENANCES DURING SEISMIC EVENTS, AS REQUIRED.
11. OCCUPANCY MOTION SENSOR SYSTEM SHALL BE PROVIDED IN EVERY ROOM/SPACE LOCATION THROUGHOUT THE FACILITY AND AS DESCRIBED IN THE SPECIFICATIONS, WHETHER SYMBOLS ARE SHOWN OR NOT SHOWN ON THE PLANS.
12. PROVIDE TESTING CERTIFICATION AND COMMISSIONING OF LIGHTING FIXTURES, INSTALLATION, LIGHTING CONTROL SYSTEM AND LIGHTING SYSTEM OPERATION.
13. CONTRACTOR SHALL COORDINATE INSTALLATION OF RECESSED LIGHTING FIXTURES IN HARD LID OR STUCCO CEILING AREAS WITH FRAMING CONTRACTOR.
14. ALL EDGE-LIT EXIT SIGNS SHALL HAVE MIRRORED BACKING.



WALL MOUNTED OUTDOOR LIGHT FIXTURE DETAIL | C



POLE BASE DETAIL - WALKWAY | A

PERFORMANCE NOTES:

1. ALL LED DRIVERS SHALL BE DIMMABLE AND COMPATIBLE WITH THE SPECIFIED LIGHTING CONTROL SYSTEM.

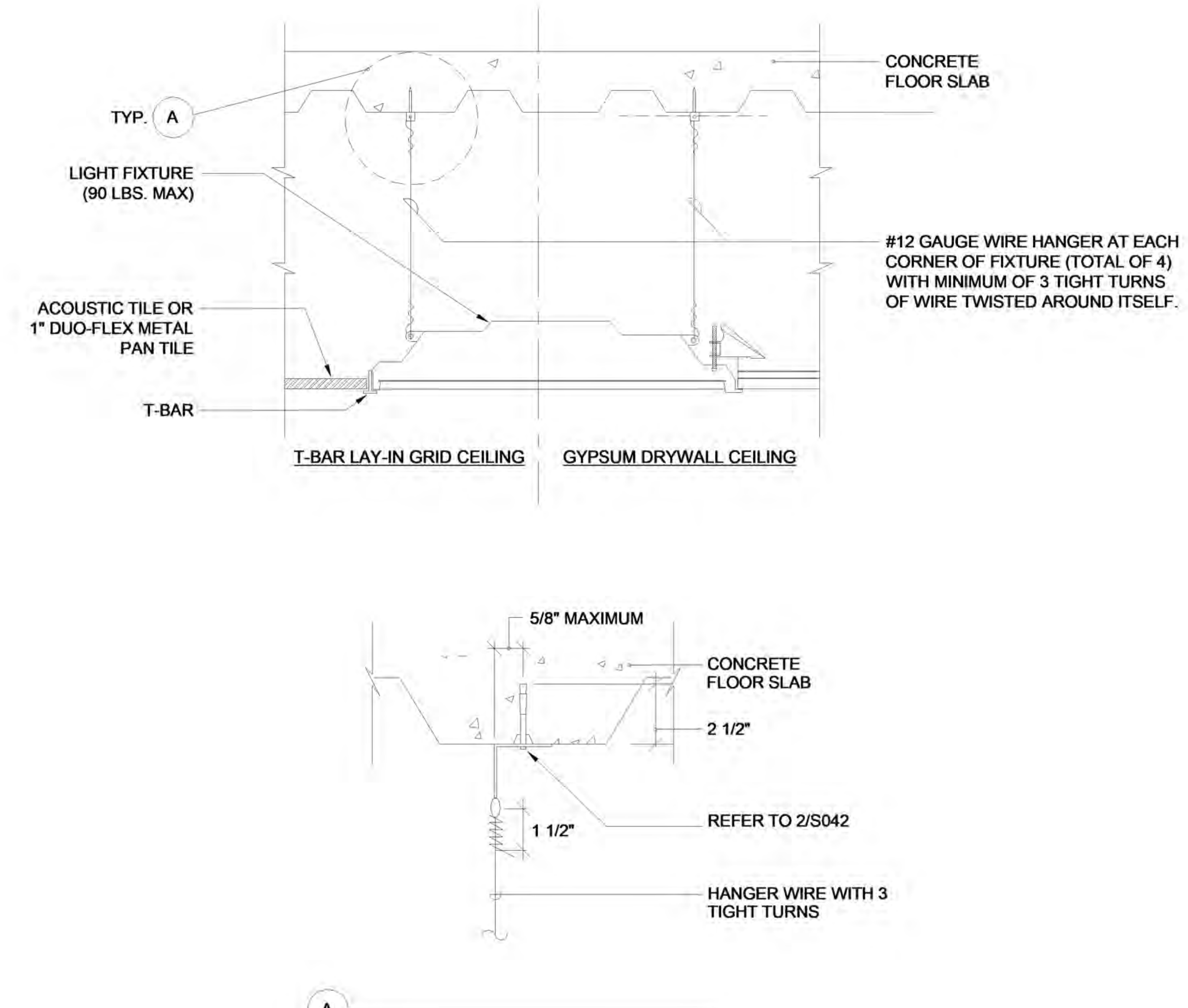
LIGHTING CONTROL RELAY SCHEDULE "MLCP"

RELAY	CKT. NO.	SWITCH	MASTER SWITCH	AREA CONTROLLED
1	HL1-	P/T	-	BOLLARDS
2	HL1-	P/T	-	TREE UPLIGHTS
3	HL1-	P/T	-	WALKWAY LIGHTS
4	HL1-	P/T	-	TREE UPLIGHTS
5	HL1-	P/T	-	WALKWAY LIGHTS
6	HL1-	P/T	-	TREE UPLIGHTS
7	HL1-	P/T	-	WALKWAY LIGHTS
8	HL1-	P/T	-	TREE UPLIGHTS
9	HL1-	P/T	-	WALKWAY LIGHTS
10	HL1-	P/T	-	SEAT WALL LIGHTS
11	HL1-	P/T	-	SEAT WALL LIGHTS
12	HL1-	P/P	-	CANOPY/STAIR LIGHTS
13	HL1-	P/P	-	WALKWAY LIGHTS
14	HL1-	P/P	-	WALKWAY LIGHTS
15	HL1-	P/P	-	WALKWAY LIGHTS
16	HL1-	P/P	-	WALKWAY LIGHTS
17	HL1-	-	-	-
18	HL1-	-	-	-
19				SPARE
20				SPARE
21				SPARE
22				SPARE
23				SPARE
24				SPARE

P/P = PHOTOCELL ON / PHOTOCELL OFF

P/T = PHOTOCELL ON / TIMECLOCK OFF

T/T = TIMECLOCK ON / TIMECLOCK OFF



NOTE:
METHOD OF FIXTURE INSTALLATION SHALL COMPLY WITH REQUIREMENTS FOR EARTHQUAKE RESISTANT CONSTRUCTION OF THE STATE OF CALIFORNIA,SEE DSA IR 25-2, 10

POLE BASE DETAIL - WALKWAY | B

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STUDENT SERVICES BLDG.
COMPTON COMMUNITY COLLEGE DISTRICT
1111 E. ARTESIA BLVD.
COMPTON, CA 90221

owner

tBP project number: 20987.00
file name: CC_SS_E_R18_Central.rvt
drawn by: FBA checked by: RR
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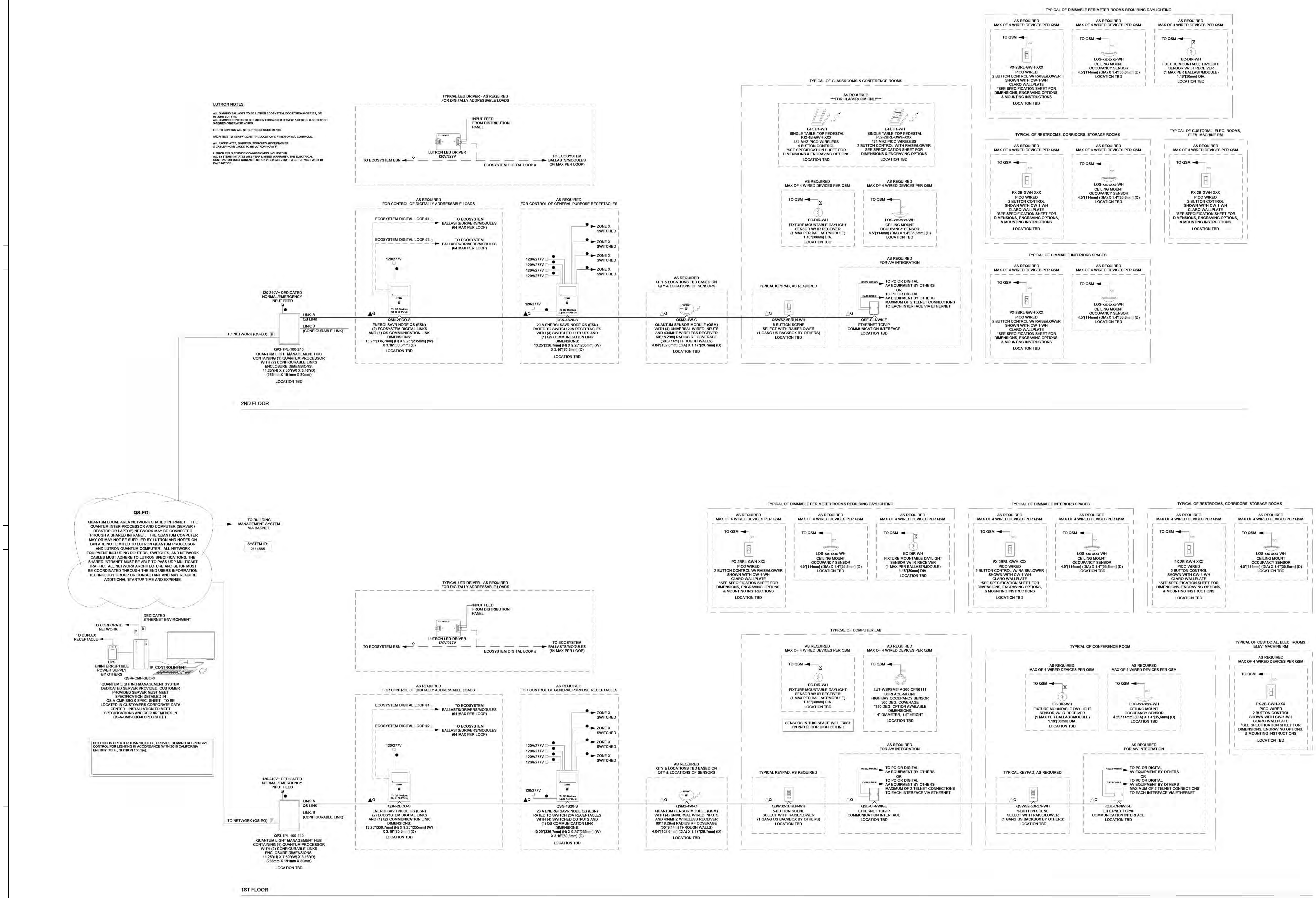
drawing title:
LIGHTING FIXTURE SCHEDULE AND DETAILS

drawing no.:
E0-7



WIRING LEGEND:

Q QS CONTROL LINK (SEE WIRE DESCRIPTION BELOW)

▲Q QS CONTROL LINK (SEE WIRE DESCRIPTION BELOW) (CONNECT WIRES 1, 3 AND 4. DO NOT CONNECT WIRE # 2)

QS WIRING AS REQUIRED BY CONTROL LINK LENGTH
(REFER TO QS SMART PANEL POWER SUPPLY WIRING GUIDE FOR SHADE WIRING NOTES):

TOTAL CONTROL LINK LENGTH	WIRE GAUGE	AVAILABLE FROM LUTRON IN ONE CABLE:
LESS THAN 500ft (152.4 m)	POWER (TERMINALS 1&2): 1 PAIR 18 AWG (1.0 mm²)	GRX-CBL-346S (NON-PLENUM) OR GRX-PCBL-346S (PLENUM)
	DATA (TERMINALS 3&4): 1 PAIR 22 AWG (0.5 mm²), TWISTED AND SHIELDED*	
500ft (152.4 m) TO 2,000ft (610 m)**	POWER (TERMINALS 1&2): 1 PAIR 12 AWG (4.0 mm²)	GRX-CBL-46L (NON-PLENUM) OR GRX-PCBL-46L (PLENUM)
	DATA (TERMINALS 3&4): 1 PAIR 22 AWG (0.5 mm²), TWISTED AND SHIELDED*	

*ALTERNATE DATA-ONLY CABLE: USE APPROVED DATA LINK CABLE (22 AWG [0.5 mm²] TWISTED/SHIELDED) FROM BELDEN (MODEL # 9461).

**TOTAL LENGTH OF THE QS LINK MUST NOT EXCEED 2,000 ft (600 m).

- INPUT POWER (NORMAL-EMERGENCY)
- INPUT POWER (NORMAL)
- 2 #12AWG (4 mm²)
- 0-10V SIGNAL: 2 #18AWG (1.0 mm²)
- ECOSYSTEM BUS/LOOP: LUTRON CABLE C-CBL-216-GR-1 (2 #16 CONDUCTOR NON-PLENUM) OR C-PCBL-216-CL-1 (2 #16 CONDUCTOR PLENUM RATED). OTHERWISE USE 2 #16 AWG (1.5 mm²).
- 1-WAY RF COMMUNICATION
- 2 #18AWG (1.0 mm²)
- 3 #18AWG (1.0 mm²)
- LUTRON SENSOR CABLE C-CBL-522S OTHERWISE USE 3 #22 AWG (1.0 mm²)
- E CAT5E OR BETTER CABLE FOR LUTRON NETWORK TERMINATED WITH RJ45 CONNECTORS. 328 ft (100 m) MAXIMUM RUN.

WIRING NOTES:

QS LINK RULES

THE FOLLOWING LINK RULES MUST BE OBSERVED FOR PROPER OPERATION:

- THIS IS A TOPOLOGY-FREE LINK (T-TAP, HOME-RUN, ETC. IS OK); REFER TO TABLE BELOW FOR WIRE RUN LIMITS.
- IF WIRED DIFFERENTLY THAN WHAT IS SHOWN, POWER DRAW UNIT REQUIREMENTS NEED TO BE CONFIRMED; SEE POWER DRAW UNITS (PDUs) SPECIFICATION SHEET INCLUDED IN THIS SUBMITTAL.
- MAXIMUM OF 512 OUTPUTS (BALLASTS, SHADES, CONTACT CLOSURES, ETC).
- MAXIMUM OF 100 OCCUPANCY SENSORS, 100 DAYLIGHT SENSORS/RADIO SHADOW SENSORS AND 100 KEYPADS.
- MAXIMUM OF 100 QS DEVICES (SUCH AS A GRAFIK EYE® QS, SEETOUCH® QS KEYPAD, SMART PANEL POWER SUPPLY [QSPS-Px-10-60], ESN, OR SIVOIA® QS SHADE / DRAPERY DRIVE UNIT). QUANTUM PROCESSOR COUNTS AS 1 DEVICE PER LINK.
- MAXIMUM OF 100 ZONES - SUCH AS A SIVOIA QS SHADE / DRAPERY DRIVE UNIT, OR A LIGHTING ZONE ON A GRAFIK EYE QS (DOES NOT APPLY TO QUANTUM SYSTEMS).
- THE 10 OUTPUTS ON A QSPS-Px-10-60 CANNOT EXCEED A COMBINED LENGTH OF 2,000 ft (600 m).

ECOSYSTEM BUS/LOOP RULES

THE FOLLOWING LOOP RULES MUST BE OBSERVED FOR PROPER OPERATION:

- THIS IS TOPOLOGY-FREE AND POLARITY FREE WIRING (T-TAP, HOME-RUN, ETC. IS OK).
- KEEP ALL THE BALLASTS/MODULES IN ONE ROOM ON THE SAME LOOP WHENEVER POSSIBLE.
- WIRE DAYLIGHT SENSORS, OCCUPANCY SENSORS AND PERSONAL CONTROLS TO THE CLOSEST ECOSYSTEM BALLAST/SENSOR MODULE IN THE SAME ROOM.
- ECOSYSTEM LOOPS ARE SHOWN ON THE LIGHTING PLANS. IF THERE IS A DISCREPANCY, AND ROOMS ARE WIRED TO A DIFFERENT LOOP THAN THE ONE SHOWN, LUTRON NEEDS TO BE NOTIFIED. THIS INFORMATION IS IMPORATANT FOR PROGRAMMING THE SYSTEM.
- UP TO 64 BALLASTS/DRIVERS/MODULES PER ECOSYSTEM LOOP
- UP TO 64 IR CONTROLS PER LOOP
- UP TO 16 DAYLIGHT SENSORS PER LOOP
- UP TO 32 OCCUPANT SENSORS PER LOOP

QUANTUM NETWORK

WHEN A LIGHTING MANAGEMENT NETWORK (LMN) IS REQUIRED TO ENABLE COMMUNICATIONS BETWEEN INDIVIDUAL LIGHT MANAGEMENT HUBS (LMH) AND BETWEEN LMH AND THE SYSTEM SERVER/DESKTOP/LAPTOP (Q-MANAGER). THE LMN REQUIRES A DEDICATED LAN OR VLAN. IT IS THE RESPONSIBILITY OF THE NETWORK PROVIDER TO ENSURE THE RELIABILITY AND SECURITY OF THE LMN.

CAT5E OR BETTER ETHERNET CABLE TO BE RUN FOR DEDICATED LMN TERMINATED WITH RJ45 CONNECTORS (PROVIDED BY OTHERS). THE NUMBER OF ETHERNET HOPS/SEGMENTS BETWEEN THE SERVER/DESKTOP/LAPTOP (Q-MANAGER) AND ANY LMN NODE SHALL NOT EXCEED 6. TOTAL LENGTH OF ETHERNET CABLE SHALL NOT EXCEED 328 FT (100M) POINT-TO-POINT.

IF LONGER RUNS ARE REQUIRED, MULTI-MODE FIBER OPTIC CABLE CAN BE USED INSTEAD WITH APPROPRIATE FIBER OPTIC CONNECTORS (PROVIDED BY OTHERS). CONSULT WITH NETWORK PROVIDER FOR STANDARD ETHERNET AND FIBER OPTIC WIRING RULES FOR DISTANCE AND SEPARATION AS WELL AS FOR PLACEMENT OF SWITCHES, ROUTERS, HUBS, ETC.

FOR MORE INFORMATION REGARDING NETWORK EQUIPMENT REQUIREMENTS AND NETWORK CONFIGURATION, PLEASE REFER TO THE QUANTUM LIGHTING MANAGEMENT NETWORK SPECIFICATION SHEET OR CONTACT LUTRON.

LED DIMMING REQUIRES AN EXACT MATCH BETWEEN THE LED ARRAY, DRIVER AND CONTROL. LUTRON CANNOT GUARANTEE COMPATIBILITY OR PERFORMANCE WITHOUT TESTING THIS COMBINATION.

TO CONFIRM WHAT PRODUCTS LUTRON HAS AVAILABLE OR WHAT INTERFACES MAY BE REQUIRED, CALL 1-877-DIM-LED8 OR CHECK LUTRON'S PRODUCT COMPATIBILITY MATRIX ON-LINE AT WWW.LUTRON.COM/LED.

TO REQUEST THE TESTING OF AN LED PRODUCT BY LUTRON MANUFACTURERS CAN FILL OUT AN LED EVALUATION REQUEST FORM ON-LINE AT WWW.LUTRON.COM/LED OR CONTACT LEDS@LUTRON.COM.

LUTRON CAN GUARANTEE COMPATIBILITY AND PERFORMANCE OF LUTRON HI-LUME A-SERIES LED DRIVERS USED WITH APPROPRIATE LUTRON CONTROLS. THE HI-LUME A-SERIES LED DRIVER CAN BE USED ON PRODUCTS UNDER 40 WATTS WITH SUITABLE MOUNTING LOCATIONS. PLEASE REFER TO THE SPECIFICATION SUBMITTAL SHEET FOR FURTHER INFORMATION.

IF USING UNTESTED, NON-LUTRON LED DRIVERS REQUIRING 0-10V CONTROL, PERFORMANCE AND COMPATIBILITY CANNOT BE GUARANTEED BY LUTRON. PRODUCTS FOLLOWING THE IEC STANDARD 60929 ARE MORE LIKELY TO PROVIDE ACCEPTABLE PERFORMANCE RESULTS. DETERMINATION OF RESULT ACCEPTABILITY IS UP TO THE USER'S DISCRETION.

IF USING UNTESTED, NON-LUTRON LED DRIVERS REQUIRING PHASE CONTROL, PERFORMANCE AND COMPATIBILITY CANNOT BE GUARANTEED BY LUTRON. A-SERIES OR ELV PRODUCTS PROVIDING HIGH END AND LOW END TRIM ADJUSTMENTS ARE MORE LIKELY TO PROVIDE ACCEPTABLE PERFORMANCE RESULTS. DETERMINATION OF RESULT ACCEPTABILITY IS UP TO THE USER'S DISCRETION.

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drawing title:
LIGHTING CONTROLS DETAILS

drawing no.:
E0-8

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E (Created 7/18)

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-LTI-E

This document is used to demonstrate compliance with requirements in §110.9, §130.0, §130.1, §140.6, and §141.0(b)2 for indoor lighting scopes using the prescriptive path.

Project Name:	COMPTON COLLEGE STUDENT SERVICES BLDG.	Report Page:	Page 1 of 7
Project Address:	1111 E. ARTESIA BLVD.	Date Prepared:	2/27/2019

A. GENERAL INFORMATION

01	Project Location (city)	COMPTON	04	Total Conditioned Floor Area (ft²)	30,633
02	Climate Zone	8	05	Total Unconditioned Floor Area (ft²)	0
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	2

☑ Office ☐ Retail ☐ Warehouse ☐ Hotel/Motel ☐ School ☑ Support Areas
☐ Parking Garage ☐ High-Rise Residential ☐ Relocatable ☑ Other (write in):

B. PROJECT SCOPE

Table Instructions: Include any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)2 for alterations. WARNING: Changing the Calculation Method in this table will result in the deletion of data previously input. If you need to change the calculation method, please open a new form or use "Save As".

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☑ New Lighting System	Area Category	30,633	Area Category	0
☐ Altered Lighting System				
Total Area of Work (ft²)	30,633		0	

C. COMPLIANCE RESULTS

Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)1.	01 Complete Building §140.6(c)1 (See Table I)	02 Area Category §140.6(c)2 (See Table I)	03 Area Category Footnotes §140.6(c)2G (+) (See Table K)	04 Tailored §140.6(c)3 (+) (See Table L)	=	05 Total Allowed (Watts)	≥	06 Total Designed (Watts) (See Table F)	07 Adjustments: Portable Lighting §140.6(a) (-) (See Table J)	08 Adjustments: PAF Control Credits §140.6(a)2 (-) (See Table R)	=	09 Total Actual (Watts) *Includes Adjustments	10 Compliance Results: 05 Must be ≥ 09 §140.6
Conditioned:		25,543.35			=	25,543.35	≥	19,645			=	19,645	COMPLIES
Unconditioned:					=		≥				=		

Allowed Lighting Power per §140.6(b) (Watts); Actual Lighting Power per §140.6(a) (Watts)

Controls Compliance (See Table H for Details)	COMPLIES
Rated Power Reduction Compliance (See Table S for Details)	Not Applicable

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Project Name:	COMPTON COLLEGE STUDENT SERVICES BLDG.	Report Page:	Page 2 of 7
Project Address:	1111 E. ARTESIA BLVD.	Date Prepared:	2/27/2019

D. EXCEPTIONAL CONDITIONS
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

No exceptional conditions apply to this project.

E. ADDITIONAL REMARKS
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. INDOOR LIGHTING FIXTURE SCHEDULE
Table Instructions: Include all permanent designed lighting and all portable lighting in offices.

01 Name or Item Tag	02 Complete Luminaire Description	03 Specialized Luminaire Types: Track	03 Portable	04 Watts per luminaire¹	05 How Wattage is determined	06 Total number luminaires	07 Exempt per §140.6(a)3	08 Design Watts	09 Field Inspector: Pass	Fail
A1	LED 2x4 LUMINAIRE WITH 0-10V DIM	☐	☐	53	Mfr. Spec¹	303	☐	16,059	☐	☐
B1	LED CYLINDER DOWNLIGHT; 4.5" APE	☐	☐	36	Mfr. Spec¹	51	☐	1,836	☐	☐
C1	LED STRIP LIGHT WITH INTEGRAL 0-1	☐	☐	25	Mfr. Spec¹	13	☐	325	☐	☐
D1	LED 1x4 LUMINAIRE WITH 0-10V DIM	☐	☐	26	Mfr. Spec¹	18	☐	468	☐	☐
E1	LED DOWNLIGHT; 6" APERTURE	☐	☐	29	Mfr. Spec¹	33	☐	957	☐	☐
						Total Designed Watts CONDITIONED SPACES:		19,645		

¹NOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c). Wattage used must be the maximum rated for the luminaire, not the lamp.

G. TRACK LIGHTING
This Section Does Not Apply

H. INDOOR LIGHTING CONTROLS (Not Including PAFs)

*Table Instructions: Please include lighting controls for conditioned and unconditioned spaces in this table. When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.*

Building Level Controls: 01 Mandatory Demand Response §130.1(e)	02 Shut-off Controls §130.1(c)	03 Field Inspector: Pass	Fail
Required > 10,000 SF	See Area Level Controls	☐	☐

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Project Address:	1111 E. ARTESIA BLVD.	Date Prepared:	2/27/2019

Area Level Controls

04 Area Description	05 Complete Building or Area Category Primary Function Area	06 Area Controls §130.1(a)	07 Multi-Level Controls §130.1(b)	08 Shut-Off Controls §130.1(c)	09 Primary/Skylit Daylighting §130.1(d)	10 Secondary Daylighting §140.6(d)	11 Interlocked Systems §140.6(a)1	12 Field Inspector: Pass	Fail
		Manual ON/OFF	Dimmer	Occ Sensor			☐	☐	☐
OPEN OFFICE	Office (> 250 square feet)	Manual ON/OFF	Dimmer	Occ Sensor			☐	☐	☐
OFFICE	Office (<= 250 square feet)	Manual ON/OFF	Dimmer	Occ Sensor			☐	☐	☐
CORRIDOR	Corridor, Restrm, Stair, Support	Manual ON/OFF	Dimmer	Occ Sensor			☐	☐	☐
ELEC/MECH	Elec, Mech, Telephone	Manual ON/OFF	Dimmer	Occ Sensor			☐	☐	☐
CONFERENCE	Convention, Conf., Meeting	Manual ON/OFF	Dimmer	Occ Sensor			☐	☐	☐
COPY/PRINT	Corridor, Restrm, Stair, Support	Manual ON/OFF	Dimmer	Occ Sensor			☐	☐	☐
STORAGE	Corridor, Restrm, Stair, Support	Manual ON/OFF	Dimmer	Occ Sensor			☐	☐	☐
CLASSROOM/ LECTURE/TRAINING	Class, Lecture, Trg, Vocational	Manual ON/OFF	Dimmer	Occ Sensor			☐	☐	☐
LOUNGE	Lounge	Manual ON/OFF	Dimmer	Occ Sensor			☐	☐	☐

*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)2

13 Plan Sheet Showing Daylit Zones:

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS
Table Instructions: Complete the table for each area complying using the Complete Building or Area Category Methods per §140.6(b). Indicate if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used.

Conditioned Spaces

01 Area Description	02 Complete Building or Area Category Primary Function Area	03 Allowed Density (W/ft²)	04 Area (ft²)	05 Allowed Wattage (Watts)	06 Additional Allowances / Adjustments: Footnotes	PAF	Portable Ltg
OPEN OFFICE > 250 SQFT-1ST FLOOR	Office (> 250 square feet)	0.75	4,858	3,643.5	☐	☐	☐
OFFICE < 250 SQFT-1ST FLOOR	Office (<= 250 square feet)	1	2,322	2,322	☐	☐	☐
CORRIDOR-1ST FLOOR	Corridor, Restrm, Stair, Support	0.6	2,441	1,464.6	☐	☐	☐
RESTROOM-1ST FLOOR	Corridor, Restrm, Stair, Support	0.6	650	390	☐	☐	☐
ELECTRICAL/MECHANICAL ROOM	Elec, Mech, Telephone	0.55	385	211.75	☐	☐	☐

Table Continued

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Project Name:	COMPTON COLLEGE STUDENT SERVICES BLDG.	Report Page:	Page 4 of 7
Project Address:	1111 E. ARTESIA BLVD.	Date Prepared:	2/27/2019

01 Area Description	02 Complete Building or Area Category Primary Function Area	03 Allowed Density (W/ft²)	04 Area (ft²)	05 Allowed Wattage (Watts)	06 Additional Allowances / Adjustments: Footnotes	PAF	Portable Ltg
CONFERENCE/MEETING-1ST FLOOR	Convention, Conf., Meeting	1.2	547	656.4	☐	☐	☐
COPY/PRINT ROOM-1ST FLOOR	Corridor, Restrm, Stair, Support	0.6	347	208.2	☐	☐	☐
STORAGE-1ST FLOOR	Corridor, Restrm, Stair, Support	0.6	911	546.6	☐	☐	☐
LECTURE/TRAINING-1ST FLOOR	Class, Lecture, Trg, Vocational	1.2	3,323	3,987.6	☐	☐	☐
JANITOR CLOSET-1ST FLOOR	Corridor, Restrm, Stair, Support	0.6	77	46.2	☐	☐	☐
OFFICE < 250 SQFT-2ND FLOOR	Office (<= 250 square feet)	1	4,287	4,287	☐	☐	☐
ELECTRICAL/MECHANICAL ROOM	Elec, Mech, Telephone	0.55	284	156.2	☐	☐	☐
CLASSROOM-2ND FLOOR	Class, Lecture, Trg, Vocational	1.2	635	762	☐	☐	☐
CONFERENCE/MEETING-2ND FLOOR	Convention, Conf., Meeting	1.2	513	615.6	☐	☐	☐
RESTROOM-2ND FLOOR	Corridor, Restrm, Stair, Support	0.6	694	416.4	☐	☐	☐
JANITOR CLOSET-2ND FLOOR	Corridor, Restrm, Stair, Support	0.6	73	43.8	☐	☐	☐
STORAGE-2ND FLOOR	Corridor, Restrm, Stair, Support	0.6	725	435	☐	☐	☐
OPEN OFFICE > 250 SQFT-2ND FLOOR	Office (> 250 square feet)	0.75	4,842	3,631.5	☐	☐	☐
CORRIDOR-2ND FLOOR	Corridor, Restrm, Stair, Support	0.6	1,849	1,109.4	☐	☐	☐
LOUNGE-2ND FLOOR	Lounge	0.9	292	262.8	☐	☐	☐
STAIR-2ND FLOOR	Corridor, Restrm, Stair, Support	0.6	578	346.8	☐	☐	☐
	TOTAL:		30,633	25,543.35	See Tables J, K, R for detail		

J. POWER ADJUSTMENT: PORTABLE LIGHTING IN OFFICES
This Section Does Not Apply

K. ADDITIONAL LIGHTING ALLOWANCE: AREA CATEGORY METHOD FOOTNOTES
This Section Does Not Apply

L. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE
This Section Does Not Apply

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED SPECIAL FUNCTION AREAS
This Section Does Not Apply

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E (Created 7/18)

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-LTI-E

Project Name:	COMPTON COLLEGE STUDENT SERVICES BLDG.	Report Page:	Page 5 of 7
Project Address:	1111 E. ARTESIA BLVD.	Date Prepared:	2/27/2019

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY
This Section Does Not Apply

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING
This Section Does Not Apply

P. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS
This Section Does Not Apply

Q. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE
This Section Does Not Apply

R. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (PAF)
This Section Does Not Apply

S. RATED POWER REDUCTION COMPLIANCE BY SPACE
This Section Does Not Apply

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E (Created 7/18)

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-LTI-E

Project Name:	COMPTON COLLEGE STUDENT SERVICES BLDG.	Report Page:	Page 6 of 7
Project Address:	1111 E. ARTESIA BLVD.	Date Prepared:	2/27/2019

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at http://www.energy.ca.gov/2015publications/CEC-400-2015-033/appendices/forms/NRCI

YES	NO	Form/Title	Field Inspector: Pass	Fail
◉	○	NRCI-LTI-01-E - Must be submitted for all buildings	☐	☐
◉	○	NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐	☐
○	◉	NRCI-LTI-03-E - Must be submitted for a line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting, to be recognized for compliance.	☐	☐
○	◉	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance.	☐	☐
○	◉	NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	☐	☐
○	◉	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	☐	☐

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

YES	NO	Form/Title	Field Inspector: Pass	Fail
◉	○	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐	☐
◉	○	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	☐	☐
◉	○	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	☐	☐
○	◉	NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF).	☐	☐

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E (Created 7/18)

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-LTI-E

Project Name:	COMPTON COLLEGE STUDENT SERVICES BLDG.	Report Page:	Page 7 of 7
Project Address:	1111 E. ARTESIA BLVD.	Date Prepared:	2/27/2019

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

Documentation Author Name:	Steve R. Zajicek	Documentation Author Signature:	
Company:	FBA Engineering	Signature Date:	2/27/2019
Address:	150 Paularino Avenue Suite A120	CEA/ HERS Certification Identification (if applicable):	
City/State/Zip:	Costa Mesa, California 92626	Phone:	9498529995

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	Stephen R. Zajicek	Responsible Designer Signature:	
Company :	FBA Engineering	Date Signed:	2/27/2019
Address:	150 Paularino	License:	E10372
City/State/Zip:	Costa Mesa, CA 92626	Phone:	949-852-9995

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-119686 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/14/2019

DIVISION OF THE STATE ARCHITECT
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planning
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architect

REGISTERED PROFESSIONAL ENGINEER
STEPHEN R. ZAJICEK
No. E 10372
Exp. 09-30-20
ELECTRICAL
STATE OF CALIFORNIA

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FBA Job Number: 212.220
consultant

COMPTON COLLEGE
STUDENT SERVICES BLDG.

COMPTON COMMUNITY COLLEGE DISTRICT
1111 E. ARTESIA BLVD.
COMPTON, CA 90221

owner

tBP project number: 20987.00
file name: CC_SS_E_R18_Central.rvt
drawn by: FBA checked by: RR
date: 9.03.2019

rev:	date:	description:

drawing title:
INDOOR TITLE 24 CALCULATIONS

drawing no.:
E0-9

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E (Created 9/17)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-LTO-E

This document is used to demonstrate compliance with requirements in §110.9, §130.0, §130.2, §140.7, and §141.0(b)2L for outdoor lighting scopes using the prescriptive path.

Project Name: COMPTON COLLEGE STUDENT SERVICES BLDG. — Report Page: Page 1 of 7
Project Address: 1111 E. ARTESIA BLVD. — Date Prepared: 2/27/2019

A. GENERAL INFORMATION

01	Project Location (city)	COMPTON	04	Total Illuminated Hardscape Area (ft^2)	30,083
02	Climate Zone	8			
03	Outdoor Lighting Zone per Title 24, Part 1 §10-114 or as designated by Authority Having Jurisdiction (AHJ):				

- ☐ LZ-0: Very Low - Undeveloped Parkland
- ☐ LZ-1: Low - Developed Parkland
- ☐ LZ-2: Moderate - Rural Areas
- ☑ LZ-3: Moderately High - Urban Areas
- ☐ LZ-4: High - Must be reviewed by CA Energy Commission for Approval

B. PROJECT SCOPE

Table Instructions: Include any outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.7 or §141.0(b)2L for alterations.

My project consists of:

01	02
☑ New Lighting System	Must Comply with Allowances from §140.7.
☐ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)? ○ Yes ○ No

[1] *FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100*

C. COMPLIANCE RESULTS

Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Calculation of Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)2L / Compliance Results

01		02		03		04		05		06		07		08	09
General Hardscape Allowance §140.7(d)1	+	Per Application §140.7(d)2	+	Sales Frontage §140.7(d)2	+	Ornamental §140.7(d)2	+	Per Specific Area §140.7(d)2	OR	Existing Power §141.0(b)2L	=	Total Allowed (Watts)	≥	Total Actual (Watts)	07 Must be ≥ 08
(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)		(See Table N)				(See Table F)	
2,078.57	+	189	+		+		+	809.88	OR		=	3,077.45	≥	2,940.6	COMPLIES

Cutoff Compliance (See Table G for Details): Not Applicable
Controls Compliance (See Table H for Details): COMPLIES

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E (Created 9/17)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-LTO-E
Project Name: COMPTON COLLEGE STUDENT SERVICES BLDG. — Report Page: Page 2 of 7
Project Address: 1111 E. ARTESIA BLVD. — Date Prepared: 2/27/2019

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

No exceptional conditions apply to this project.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

Table Instructions: For new or altered lighting systems demonstrating compliance with §140.7 (ie Table I has expanded for input), include all luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)2L (ie Table N has expanded for input), include only new luminaires being installed and replacement luminaires being installed as part of the project scope (ie, do not include existing luminaires remaining or existing luminaires being moved).

Designed Wattage:

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Watts per luminaire[1]	How Wattage is determined	Total number luminaires	Luminaire Status[2]	Excluded per §140.7(a)	Design Watts	Cutoff Req. > 150W §130.2(b)[3]	Field Inspector Pass	Field Inspector Fail
SL1	LED DOWNLIGHT; 6" APERTURE	29	Mfr. Spec[1]	23	New	☐	667		☐	☐
SL2	LED WALL LIGHT; INTEGRAL DRIVER'	27	Mfr. Spec[1]	7	New	☐	189		☐	☐
SL3	LED POLE DECORATIVE WALKWAY LI	140	Mfr. Spec[1]	13	New	☐	1,820		☐	☐
SL4	LED DOWNLIGHT; 6' APERTURE WITH	44.1	Mfr. Spec[1]	6	New	☐	264.6		☐	☐
						Total Designed Watts:	2,940.6			

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
EX: Luminaire is lighting a statue; EXCEPTION 2 to §130.2(b).

G. CUTOFF REQUIREMENTS (BUG)

This Section Does Not Apply

H. OUTDOOR LIGHTING CONTROLS

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E (Created 9/17)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-LTO-E
Project Name: COMPTON COLLEGE STUDENT SERVICES BLDG. — Report Page: Page 3 of 7
Project Address: 1111 E. ARTESIA BLVD. — Date Prepared: 2/27/2019

Table Instructions: Complete this table demonstrating compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
*When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank. For each requirement in columns 02 through 07, do not leave the field blank, instead select NA or Exempt* from the dropdown list to indicate not applicable or an exemption.*

Mandatory Controls

01	02	03	04	05	06	07	08	
Area Description	Motion Sensor: Incandescent>100W §130.2(a)	Shut-Off §130.2(c)1	Auto-Schedule §130.2(c)2	Motion Sensor §130.2(c)3	Sales Frontage §130.2(c)4	Façade, Ornament, Outdoor Dining §130.2(c)5	Field Inspector Pass	Field Inspector Fail
	NA: No Incand>100W	Astronomical Timer	Yes	NA: Pole≤75W	NA: No Sales Front Ltg	No Applicable Ltg	☐	☐
NON SALES CANOPY	NA: No Incand>100W	Astronomical Timer	Yes	NA: Mounted>24ft	NA: No Sales Front Ltg	No Applicable Ltg	☐	☐
OTHER ENTRANCE/EXIT	NA: No Incand>100W	Astronomical Timer	Yes	NA: Wall≤30W	NA: No Sales Front Ltg	No Applicable Ltg	☐	☐
PEDESTRIAN HARDSCAPE	NA: No Incand>100W	Astronomical Timer	Yes	NA: Pole≤75W	NA: No Sales Front Ltg	No Applicable Ltg	☐	☐

*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
EX: Not permitted by health & safety to be turned off; EXCEPTION 1 to §130.2(c).

I. LIGHTING POWER ALLOWANCE (per §140.7)

Table Instructions: Please complete this table for areas using the allowance calculations per §140.7. General Hardscape Allowance is per Table 140.7-A while "Use it or lost it" Allowances are per Table 140.7-B. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.

01 — "Use it or lose it" Allowance (Watts)

☑ General Hardscape Allowance	☑ Per Application	☐ Sales Frontage	☐ Ornamental	☑ Per Specific Area
Table I (below)	Table J	Table K	Table L	Table M

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A

02	03	04	05	06	07	08	09
	Area Wattage Allowance (AWA)			Linear Wattage Allowance (LWA)			
Area Description	Illuminated Area (ft^2)	Allowed Density (W/ft^2)	Area Allowance (Watts)	Perimeter Length (lf)	Allowed Density (W/lf)	Linear Allowance (Watts)	Total General AWA + LWA (Watts)
PEDESTRIAN HARDSCAPE	30,083	0.04	1,203.32	1,015	0.35	355.25	1,558.57

Initial Wattage Allowance for Entire Site (Watts): **520**

Table Continued

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E (Created 9/17)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-LTO-E
Project Name: COMPTON COLLEGE STUDENT SERVICES BLDG. — Report Page: Page 4 of 7
Project Address: 1111 E. ARTESIA BLVD. — Date Prepared: 2/27/2019

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A

Total General Hardscape Allowance (Watts): **2,078.57**

J. LIGHTING ALLOWANCE: PER APPLICATION

Table Instructions: Please complete this table for areas using the wattage allowance per application from Table-140.7-B.

01	02	03	04	05	06	07	08	09	10
		CALCULATED ALLOWANCE (Watts)			DESIGN WATTS				
Area Description	Application per Table 140.7-B[1]	# of Locations	Allowance per Location[2] (Watts)	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Design Watts	Additional Allowance (Watts)
OTHER ENTRANCE/EXIT	Bldg Entrance/ Exit	9	35	315	SL2	27	7	189	
							Total Design Watts for this Area:	189	189
							Total Allowance (Watts) All Areas:		189

[1] *FOOTNOTES: Primary entrance applications are only available for senior care facilities, police stations, hospitals, fire stations, and emergency vehicle facilities.*
[2] *The Allowance per Location for ATMs is 250W for the first ATM and 70W for each additional per Table 140.7-B.*

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This Section Does Not Apply

L. LIGHTING ALLOWANCE: ORNAMENTAL

This Section Does Not Apply

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

Table Instructions: Please complete this table for areas using the wattage allowance per specific area type from Table 140.7-B. More than one specific area allowance may be taken in a single project, if applicable. However, multiple specific area allowances may not be taken for the exact same area on the site.

01	02	03	04	05	06	07	08	09	10
		CALCULATED ALLOWANCE (Watts)			DESIGN WATTS				
Area Description	Specific Area Type per Table 140.7-B	Specific Area (ft^2)[1]	Allowed Density (W/ft^2)	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Design Watts	Additional Allowance (Watts)
NON SALES CANOPY	Non-sales Canopies/Tunnels	1,985	0.408	809.88	SL1	29	23	667	

Table Continued

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E (Created 9/17)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-LTO-E
Project Name: COMPTON COLLEGE STUDENT SERVICES BLDG. — Report Page: Page 5 of 7
Project Address: 1111 E. ARTESIA BLVD. — Date Prepared: 2/27/2019

01	02	03	04	05	06	07	08	09	10
		CALCULATED ALLOWANCE (Watts)			DESIGN WATTS				
Area Description	Specific Area Type per Table 140.7-B	Specific Area (ft^2)[1]	Allowed Density (W/ft^2)	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Design Watts	Additional Allowance (Watts)
NON SALES CANOPY	Non-sales Canopies/Tunnels	1,985	0.408	809.88	SL4	44.1	6	264.6	
							Total Design Watts for this Area:	931.6	809.88
							Total Allowance (Watts) All Areas:		809.88

[1] *FOOTNOTES: See Table 140.7-B for the rules for calculating the specific areas (ft^2) for these additional lighting allowances.*

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This Section Does Not Apply

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

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YES	NO	Form/Title	Field Inspector Pass	Field Inspector Fail
◉	○	NRCI-LTO-01-E - Must be submitted for all buildings.	☐	☐
◉	○	NRCI-LTO-02-E - Must be submitted for a lighting control system; or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐	☐

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E (Created 9/17)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-LTO-E
Project Name: COMPTON COLLEGE STUDENT SERVICES BLDG. — Report Page: Page 6 of 7
Project Address: 1111 E. ARTESIA BLVD. — Date Prepared: 2/27/2019

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

YES	NO	Form/Title	Field Inspector Pass	Field Inspector Fail
◉	○	NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls area added to ≤ 20 luminaires.	☐	☐

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E (Created 9/17)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-LTO-E
Project Name: COMPTON COLLEGE STUDENT SERVICES BLDG. — Report Page: Page 7 of 7
Project Address: 1111 E. ARTESIA BLVD. — Date Prepared: 2/27/2019

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

Documentation Author Name:	Steve R. Zajicek	Documentation Author Signature:	
Company:	FBA Engineering	Signature Date:	2/27/2019
Address:	150 Paularino Avenue Suite A120	CEA/ HERS Certification Identification (if applicable):	
City/State/Zip:	Costa Mesa, California 92626	Phone:	9498529995

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. **The information provided on this Certificate of Compliance is true and correct.**
2. **I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)**
3. **The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.**
4. **The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.**
5. **I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.**

Responsible Designer Name:	Stephen R. Zajicek	Responsible Designer Signature:	
Company :	FBA Engineering	Date Signed:	2/27/2019
Address:	150 Paularino	License:	E10372
City/State/Zip:	Costa Mesa, CA 92626	Phone:	949-852-9995

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
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architect

FBAEngineering
consultant

COMPTON COLLEGE
STUDENT SERVICES BLDG.
COMPTON COMMUNITY COLLEGE DISTRICT
1111 E. ARTESIA BLVD.
COMPTON, CA 90221
owner

tBP project number: 20987.00
file name: CC_SS_E_R18_Central.rvt
drawn by: FBA checked by: RR
date: 9.03.2019
rev: date: description:

drawing title:
OUTDOOR TITLE 24 CALCULATIONS

drawing no.:
E0-10

STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E (Created 5/18)

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-ELC-E

This document is used to demonstrate compliance with mandatory requirements in §130.5 for electrical systems in newly constructed nonresidential, high-rise residential and hotel/motel occupancies. Additions and alterations to electrical service systems in these occupancies will also use this document to demonstrate compliance per §141.0(a) or §141.0(b)2P for alterations.

Project Name:	COMPTON COLLEGE STUDENT SERVICES BLDG.	Report Page:	Page 1 of 5
Project Address:	1111 E. ARTESIA BLVD.	Date Prepared:	2/27/2019

A. GENERAL INFORMATION

01 Project Location (city)		COMPTON	02 Occupancy Types Within Project:		
☑ Office	☐ Retail	☐ Warehouse	☐ Hotel/ Motel	☐ School	☑ Support Areas
☐ Parking Garage	☐ High-Rise Residential	☐ Relocatable	☑ Other (Write In):		

B. PROJECT SCOPE

Table Instructions: Include any electrical service systems that are within the scope of the permit application.

01	02	03	04	05
Electrical Service Designation/ Description	Scope of Work[1]	Rating (kVA)	Utility Provided Metering System Exception to §130.5(a)[2]	Demand Response Controls: Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections §120.2, §130.1 and §130.3 and compliance documents NRCC-MCH, NRCC-LTI and NRCC-LTS will indicate when demand response controls are required.
MDBH	New electrical service equipment & meter	750	☐	

[1] FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c), no other requirements from 130.5 are required.
[2] Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.

C. COMPLIANCE RESULTS

Table Instructions: If this table says "DOES NOT COMPLY" refer to Table D. for guidance and review the Table that indicates "No".

01		02		03		04	05
Service Electrical Metering §130.5(a)	AND	Separation for Monitoring §130.5(b)	AND	Voltage Drop §130.5(c)	AND	Controlled Receptacles §130.5(d)	**Compliance Results**
(See Table F)		(See Table G)		(See Table H)		(See Table I)	
Yes	AND	Yes	AND	Yes	AND	Yes	**COMPLIES**

STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E (Created 5/18)

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-ELC-E

Project Name:	COMPTON COLLEGE STUDENT SERVICES BLDG.	Report Page:	Page 2 of 5
Project Address:	1111 E. ARTESIA BLVD.	Date Prepared:	2/27/2019

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

No exceptional conditions apply to this project.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. SERVICE ELECTRICAL METERING

Table Instructions: Complete the table below for new or replacement electrical service systems OR equipment to demonstrate compliance with §130.5(a).

01	02	03				04	05	
		Required Metering Capabilities per Table 130.5-A					Field Inspector	
Electrical Service Designation/ Description	Rating (kVA)	Instantaneous Demand (kW)	Historical Peak Demand (kW)	Tracking kWh for user-defined period	kWh per rate period	Location of Requirements in Construction Documents	Pass	Fail
	50	☑	☐	☑	☐	E0-2	☐	☐

G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING

Table Instructions: Complete this table for entirely new or complete replacement electrical power distribution systems to demonstrate compliance with §130.5(b). Using the dropdown choices in column 01, indicate the load types included for each service. Any load types that are not included in the service do not need to be shown.

Electrical Service Designation/Description:

01	02	03	04	05	
				Field Inspector	
Load Type per Table 130.5-B[1]	Minimum Required Separation of Load per Table 130.5-B	Compliance Method[2]	Location of Requirements in Construction Documents	Pass	Fail
Plug Loads and appliances < 25kVA		Method 1	E0-2	☐	☐
Lighting including exit, egress and exterior		Method 1	E0-2	☐	☐

Table Continued

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01	02	03	04	05	
				Field Inspector	
Load Type per Table 130.5-B[1]	Minimum Required Separation of Load per Table 130.5-B	Compliance Method[2]	Location of Requirements in Construction Documents	Pass	Fail
HVAC systems and components		Method 1	E0-2	☐	☐
Elevators, escalators, moving walkways		Method 1	E0-2	☐	☐

** NOTES: If "Other*" is selected under Compliance Method above, please indicate how compliance has been achieved in the space provided below.*

[1] FOOTNOTES: For each separate load type, up to 10% of the connected load may be of any type.
[2] Method 1: Switchboards/ motor control centers/ panelboard loads disaggregated for each load type
Method 2: Switchboards/ motor control centers/ panelboard supply other distribution equipment with loads disaggregated for each load type
Method 3: Complete metering system measures and reports loads by type
See Chapter 8 of the Nonresidential Compliance Manual for more detail on Compliance Methods.

H. VOLTAGE DROP

Table Instructions: Please complete this table for entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with §130.5(c). For alterations, only the altered circuits must demonstrate compliance per §141.0(b)2Piii.

01	02		03	04	05	
					Field Inspector	
Electrical Service Designation/ Description	Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method		Location of Voltage Drop Calculations[1]	Sheet Number for Voltage Drop Calculations in Construction Documents	Pass	Fail
	☑ Voltage drop < 5%	☐ Permitted by CA Elec Code (Exception to §130.5(c))*	In construction documents	E0-2	☐	☐

**NOTES If "Permitted by CA Elec Code*" is selected under Compliance Method above, please indicate where the exception applies in the space provided below.*
[1] FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".

I. CIRCUIT CONTROLS FOR 120-VOLT RECEPTACLES AND CONTROLLED RECEPTACLES

Table Instructions: Please complete this table for entirely new or complete replacement electrical power distribution systems to demonstrate compliance with §130.5(d). Both controlled and uncontrolled receptacles must be provided in office areas, lobbies, conference rooms, kitchen areas in office spaces, copy rooms and hotel/motel guest rooms.

Table Continued

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Electrical Power Distribution
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CERTIFICATE OF COMPLIANCE — NRCC-ELC-E

Project Name:	COMPTON COLLEGE STUDENT SERVICES BLDG.	Report Page:	Page 4 of 5
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01	02	03	04	05	06	
					Field Inspector	
Electrical Service Designation/ Description	Location/ Type of Controlled Receptacles	Shut-Off Controls	Permanent Durable Marking Will be Used	Location of Requirements in Construction Documents	Pass	Fail
	Within 6ft of uncontrolled receptacles	Occupancy Sensor	☐	E2-1	☐	☐
	Within 6ft of uncontrolled receptacles	Occupancy Sensor	☐	E2-2	☐	☐

Add Row | Remove Last

** If "Other*" is selected under Compliance Method above, please indicate how compliance has been achieved in the space provided below.*

J. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at http://www.energy.ca.gov/2015publications/CEC-400-2015-033/appendices/forms/NRCI

YES	NO	Form/Title	Field Inspector	
			Pass	Fail
◉	○	NRCI-ELC-01-E - Must be submitted for all buildings.	☐	☐

K. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no Certificates of Acceptance applicable to electrical power distribution requirements.

STATE OF CALIFORNIA
Electrical Power Distribution
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CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-ELC-E

Project Name:	COMPTON COLLEGE STUDENT SERVICES BLDG.	Report Page:	Page 5 of 5
Project Address:	1111 E. ARTESIA BLVD.	Date Prepared:	2/27/2019

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

Documentation Author Name:	Steve R. Zajicek	Documentation Author Signature:	
Company:	FBA Engineering	Signature Date:	2/27/2019
Address:	150 Paularino Avenue Suite A120	CEA/ HERS Certification Identification (if applicable):	
City/State/Zip:	Costa Mesa, California 92626	Phone:	9498529995

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. **The information provided on this Certificate of Compliance is true and correct.**
2. **I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)**
3. **The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.**
4. **The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.**
5. **I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.**

Responsible Designer Name:	Stephen R. Zajicek	Responsible Designer Signature:	
Company :	FBA Engineering	Date Signed:	2/27/2019
Address:	150 Paularino	License:	E10372
City/State/Zip:	Costa Mesa, CA 92626	Phone:	949-852-9995

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COMPTON COLLEGE
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COMPTON COMMUNITY COLLEGE DISTRICT
1111 E. ARTESIA BLVD.
COMPTON, CA 90221

owner

tBP project number: 20987.00

file name: CC_SS_E_R18_Central.rvt

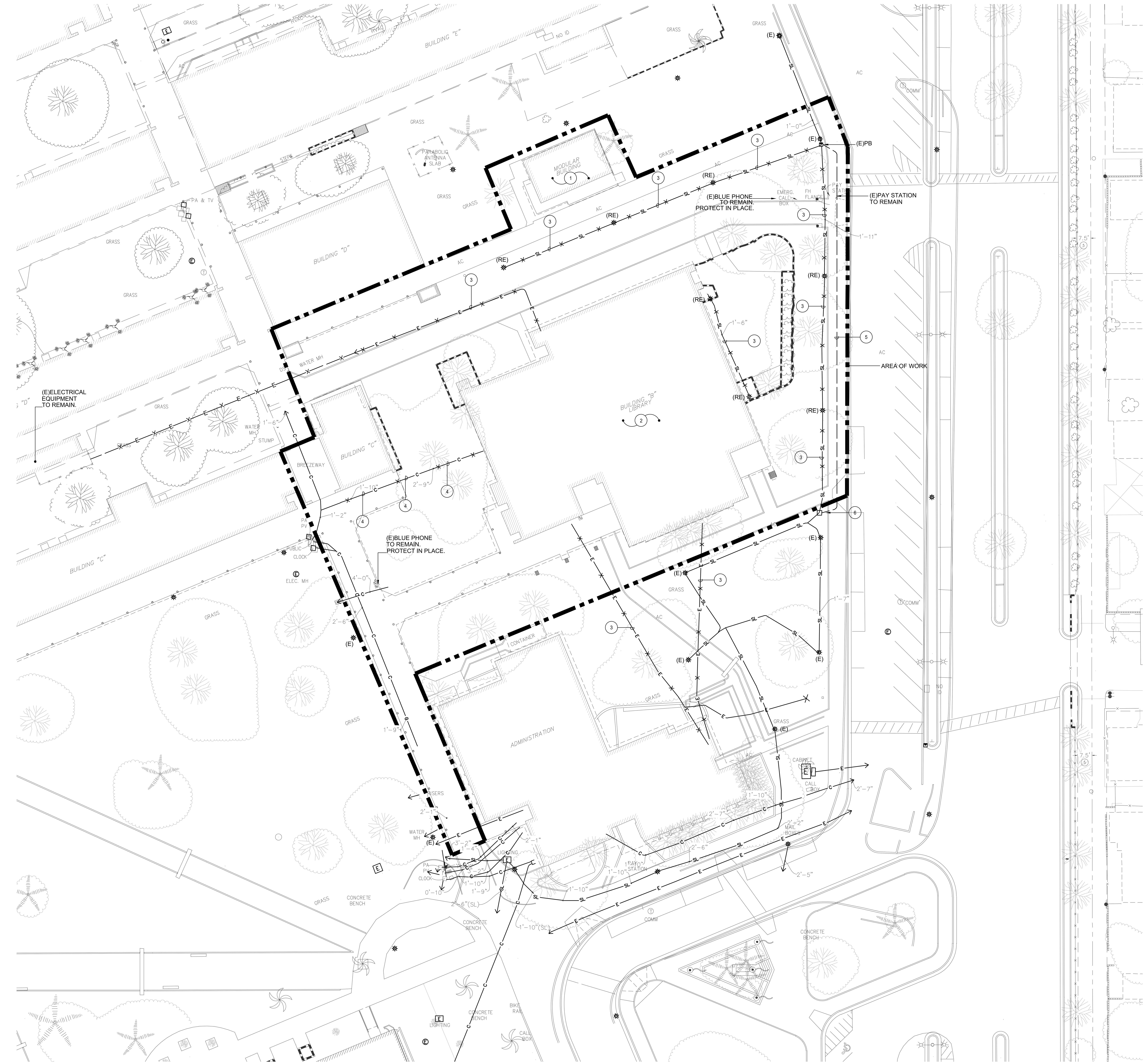
drawn by: FBA checked by: RR

date: 9.03.2019

rev:	date:	description:

drawing title:
POWER DISTRIBUTION
TITLE 24 CALCULATIONS

drawing no.:
E0-11



SITE ELECTRICAL DEMOLITION PLAN

SCALE: 1" = 20'-0"

0 5 10 20 40

NORTH

KEY NOTES

1. DISCONNECT AND REMOVE ALL ELECTRICAL AND COMMUNICATIONS SERVICES TO THE EXISTING MODULAR BUILDING. ANY ELECTRICAL EQUIPMENT AND DEVICES DEEMED SALVEAGABLE SHALL BE TURNED OVER TO THE COLLEGE AND STORED IN A LOCATION AS DETERMINED BY THE COLLEGE. REMOVE EXISTING ELECTRICAL FEEDER CONDUCTORS BACK TO THE SERVICE POINT OF CONNECTION. CUT BACK ALL ASSOCIATED CONDUIT AND WIRING INTO A 24 IN. 30 IN X 36 IN. DEEP PRECAST CONCRETE PULL BOX, ONE BOX FOR POWER AND ANOTHER FOR COMMUNICATIONS. ALL COMMUNICATIONS CABLING SHALL BE COILED AND TAGGED WITHIN THE PULLBOX. ENGRAVE COVER OF PULLBOXES AS "ELECTRICAL" OR "COMMUNICATIONS".

2. DISCONNECT AND REMOVE ALL ELECTRICAL AND COMMUNICATIONS SERVICES TO THE EXISTING BUILDING. ANY ELECTRICAL EQUIPMENT AND DEVICES DEEMED SALVEAGABLE SHALL BE TURNED OVER TO THE COLLEGE AND STORED IN A LOCATION AS DETERMINED BY THE COLLEGE. REMOVE EXISTING ELECTRICAL FEEDER CONDUIT AND CONDUCTORS BACK TO THE SERVICE POINT OF CONNECTION. ALL COMMUNICATIONS CABLING SHALL BE REMOVED BACK TO THE EXISTING HEADEND POINT OF CONNECTION.

3. DISCONNECT AND REMOVE THE EXISTING UNDERGROUND ELECTRICAL CONDUIT AND WIRING IN ITS ENTIRETY.

4. DISCONNECT AND REMOVE THE EXISTING UNDERGROUND COMMUNICATIONS CONDUIT AND CABLING.

5. PROVIDE (N) 4#8-1-1/2"C. TO MAINTAIN CONTINUITY OF EXISTING SITE LIGHTING CIRCUIT(S).

6. PROVIDE (N) 17" x 30" x 36" DEEP INTERCEPT TYPE PULLBOX WITH BOLT DOWN SLIP RESISTANT COVER. ENGRAVE COVER TO READ: "LIGHTING".

LEGEND:

(E)	EXISTING ELECTRICAL TO REMAIN. PROTECT IN PLACE.
(RE)	REMOVE EXISTING ELECTRICAL DEVICE AND ASSOCIATED CONDUIT AND WIRING.
	EXISTING WALK LIGHT AND CONCRETE BASE
— E — / — SL —	EXISTING UNDERGROUND ELECTRICAL
— C —	EXISTING UNDERGROUND COMMUNICATIONS
—X— E —X— / —X— SL —X—	DISCONNECT AND REMOVE EXISTING UNDERGROUND ELECTRICAL
—X— C —X—	DISCONNECT AND REMOVE EXISTING UNDERGROUND COMMUNICATIONS

DEMOLITION PERFORMANCE NOTES

ALL EXISTING ELECTRICAL WITHIN THE DEMOLITION AREAS OF THE SITE SHALL BE REMAIN UNLESS SPECIFICALLY INDICATED OTHERWISE ON THE ELECTRICAL DRAWINGS. REFER TO ARCHITECTURAL DEMOLITION DRAWINGS INCLUDED IN THIS SET FOR DEMOLITION AREAS. THE SCOPE OF THE DEMOLITION WORK SHALL INCLUDE ALL LABOR, MATERIALS, SERVICES AND EQUIPMENT REQUIRED FOR THE REMOVAL OF ALL EXISTING ELECTRICAL NOT INDICATED AS BEING REUSED. THIS WORK INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING:

a. ALL EXISTING WIRE SHALL BE REMOVED FROM CONDUIT.

b. ALL EXISTING CONDUIT, THAT INTERFERES WITH ANY NEW CONSTRUCTION SHALL BE CUT BACK AS REQUIRED TO CLEAR NEW CONSTRUCTION.

c. REMOVE ALL EXISTING EXPOSED CONDUIT, SURFACE RACEWAYS AND CONDUIT CONCEALED IN EXISTING CONSTRUCTION THAT IS TO BE REMOVED. RECONNECT OUTLETS AND LIGHTING FIXTURES WHICH ARE NOW FED THROUGH THE OUTLETS TO BE REMOVED.

d. REMOVE ALL EXPOSED CONDUIT, WIRE, OUTLETS, DISCONNECT SWITCHES AND ELECTRICAL MOUNTING HARDWARE FOR MECHANICAL EQUIPMENT BEING REMOVED. PROVIDE WEATHERPROOF CAPS ON ALL CONDUIT PENETRATING ROOF AND ABANDON CONDUIT. REPAIR ROOFING DAMAGED BY REMOVAL OF EXISTING ELECTRICAL.

e. EXCEPT WHERE EXPOSED CONDUITS ARE SHOWN ON PLANS, INSTALL ALL NEW CONDUITS CONCEALED IN WALLS, FURRED CEILING, OR UNDER FLOOR SPACE.

f. LIGHT FIXTURES AND ELECTRICAL DEVICES INDICATED TO BE REMOVED AND REINSTALLED SHALL BE REMOVED AND PROPERLY STORED TO PROTECT FROM DAMAGE UNTIL SUCH TIME THAT IT IS REINSTALLED. ALL FIXTURES TO BE REINSTALLED SHALL BE FULLY OPERABLE AND SHALL FIRST BE CLEANED, RELAMPED, DEFECTIVE BALLASTS REPLACED AND CRACKED OR BROKEN DIFFUSERS/LENSES REPLACED.

g. ALL REMOVED MATERIALS AND EQUIPMENT WHICH IN THE OPINION OF THE OWNER ARE SALVAGEABLE, SHALL REMAIN THE PROPERTY OF THE OWNER. DELIVER SUCH SALVAGED MATERIALS AND EQUIPMENT ON PREMISES AS DIRECTED, AND NEATLY PILE OR STORE THEM AND PROTECT FROM DAMAGE.

h. DO NOT REUSE SALVAGED MATERIALS AND EQUIPMENT, UNLESS SPECIFICALLY INDICATED ON PLANS OR SPECIFIED. REMOVE FROM PREMISES AND DISPOSE OF ALL MATERIALS CONSIDERED BY THE OWNER TO BE SCRAP.

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COMPTON, CA 90221

owner

tBP project number : 20987.00

file name:

drawn by: FBA checked by: RR

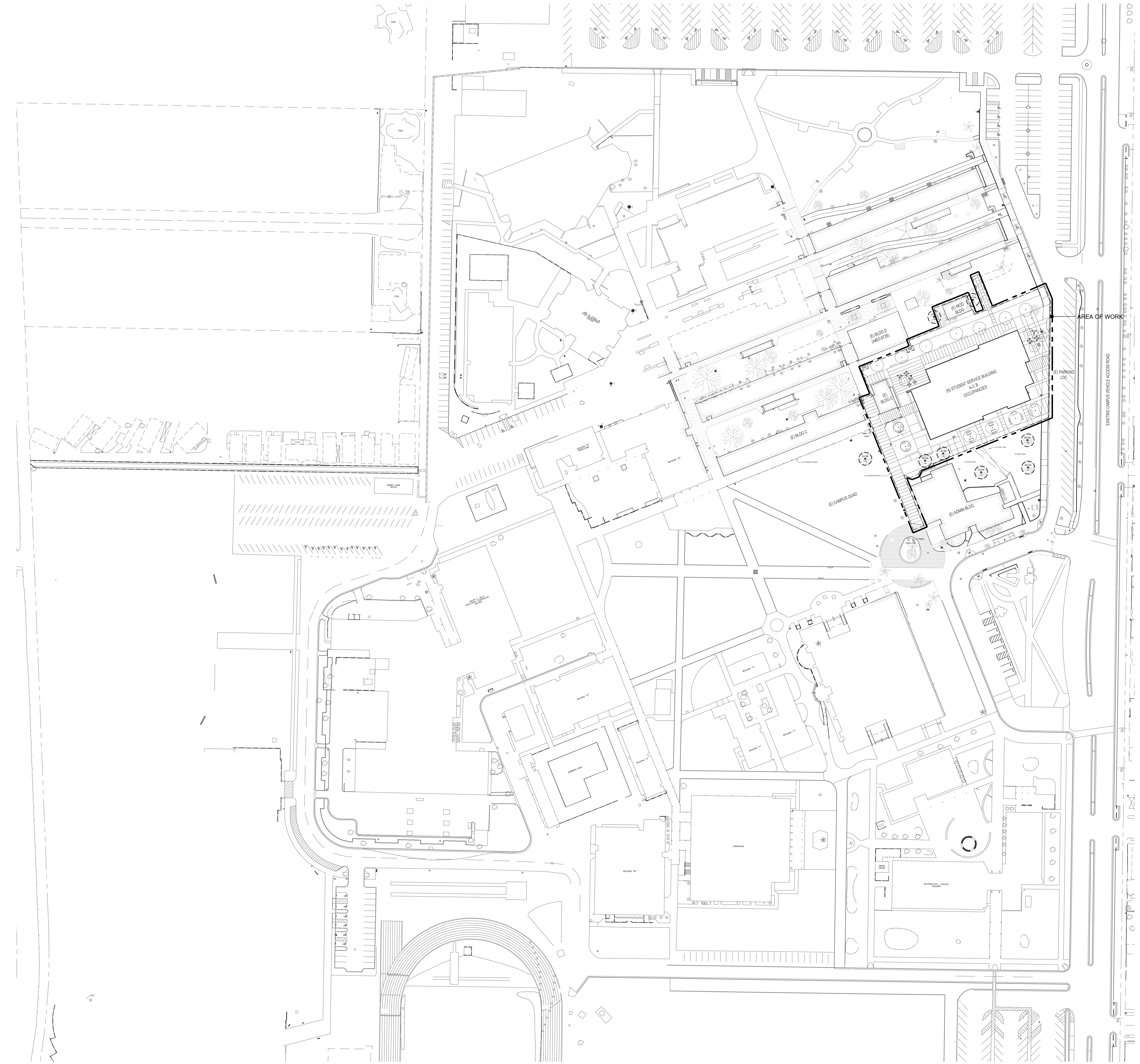
date: 9.03.2019

Rev:	date:	description:

drawing title:
SITE ELECTRICAL DEMOLITION PLAN

drawing no.:
ES-0

KEY NOTES



OVERALL SITE ELECTRICAL PLAN

SCALE: 1" = 60'-0"

0 15 30 60

NORTH

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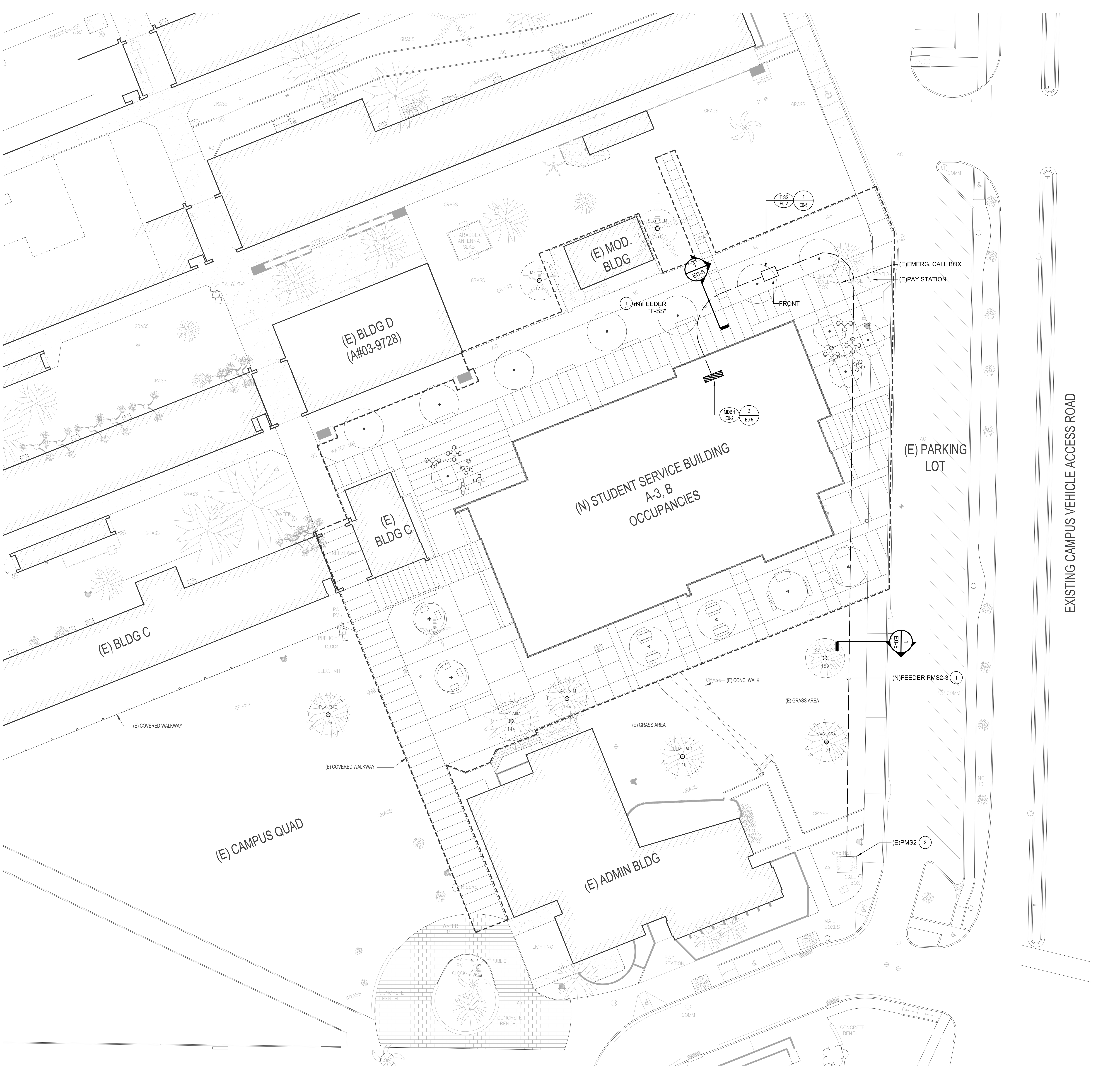
drawn by: FBA	checked by: RR
date: 9.03.2019	

Rev:	date:	description:

drawing title:
OVERALL SITE ELECTRICAL PLAN

drawing no.:
ES-1



ENLARGED SITE ELECTRICAL PLAN

SCALE: 1" = 20'-0"

0 5 10 20 40

NORTH

KEY NOTES

1. REFER TO SINGLE LINE DIAGRAM SHEET E0-2 FOR FEEDER REQUIREMENTS.
2. REFER TO PMS2 SINGLE LINE DIAGRAM SHEET E0-2.

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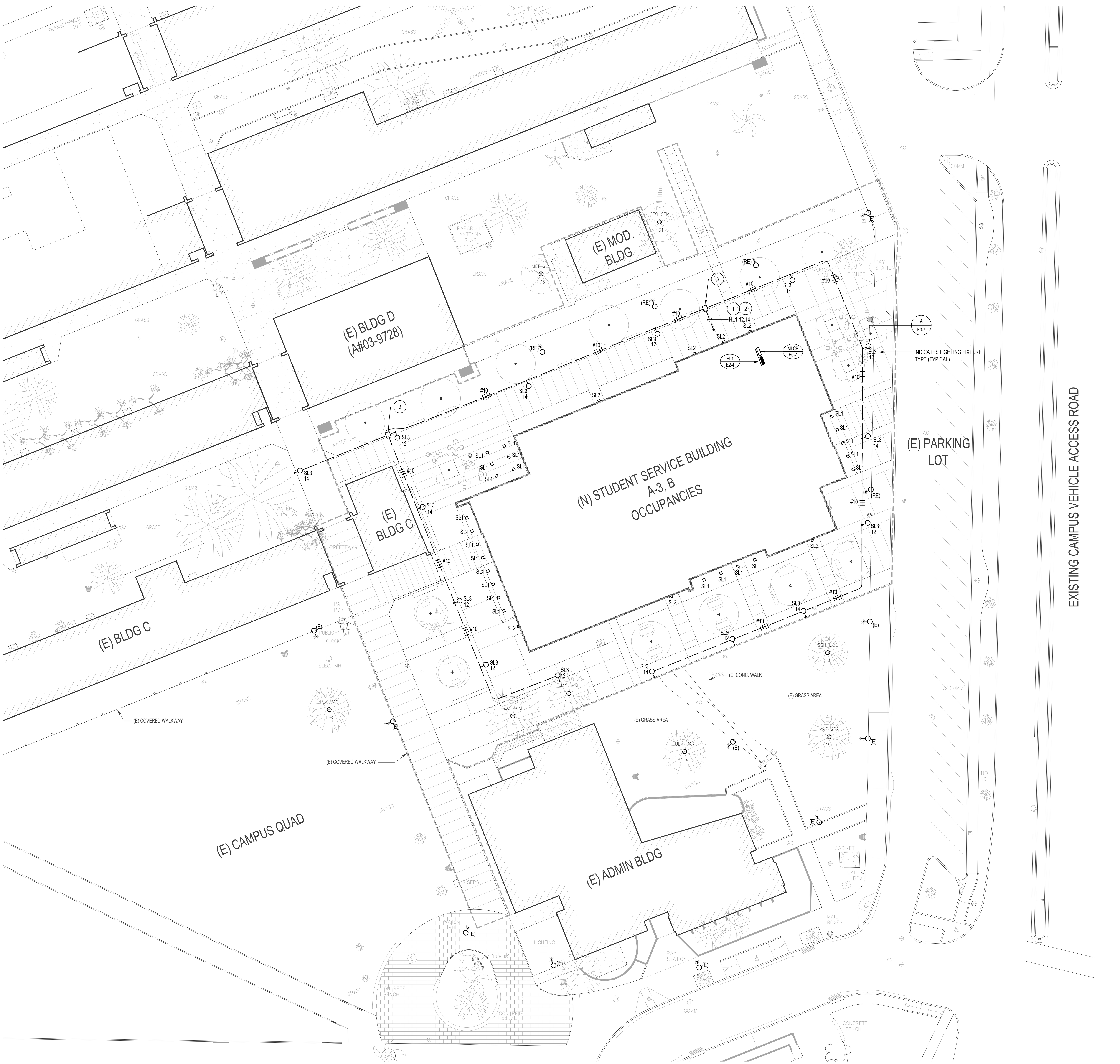
Rev:	date:	description:

drawing title:
ENLARGED SITE ELECTRICAL PLAN

drawing no.:
ES-2



ENLARGED SITE LIGHTING PLAN

SCALE: 1" = 20'-0"

NORTH

KEY NOTES

1. ROUTE VIA LIGHTING CONTROL RELAY PANEL "MLCP".
2. PROVIDE 4#10, 1#10 GRD. - 1"C.
3. PROVIDE 17" x 30" x 36" DEEP PRECAST CONCRETE PULLBOX WITH BOLT DOWN SLIP RESISTANT COVER. LABEL COVER TO READ "LIGHTING".

SITE LIGHTING NOTES

ALL INSTALLED OUTDOOR LIGHTING, WHERE THE BOTTOM OF THE LUMINAIRE IS MOUNTED 24 FEET OR LESS ABOVE THE GROUND, SHALL BE CONTROLLED WITH MOTION SENSORS AND AUTOMATIC LIGHTING CONTROLS THAT CAPABLE OF AUTOMATICALLY TURN ON/OFF AND REDUCING THE LIGHTING POWER OF EACH LUMINAIRE BY AT LEAST 40 PERCENT BUT NOT EXCEEDING 90 PERCENT, OR PROVIDE CONTINUOUS DIMMING THROUGH A RANGE THAT INCLUDES 40 PERCENT THROUGH 90 PERCENT. 2016 CALIFORNIA ENERGY CODE, SEC. 130.2(c)3A, B, C.

LEGEND:

(E) EXISTING WALKWAY LIGHTING FIXTURE, CONCRETE BASE AND ASSOCIATED CONDUIT AND WIRING TO REMAIN.

(RE) REMOVE EXISTING WALKWAY LIGHTING FIXTURE AND CONCRETE BASE.

SL3 NEW WALKWAY LUMINAIRE, POLE, CONCRETE BASE AND ASSOCIATED CONDUIT AND WIRING.

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COMPTON COLLEGE STUDENT SERVICES BLDG.

COMPTON COMMUNITY COLLEGE DISTRICT
1111 E. ARTESIA BLVD.
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owner

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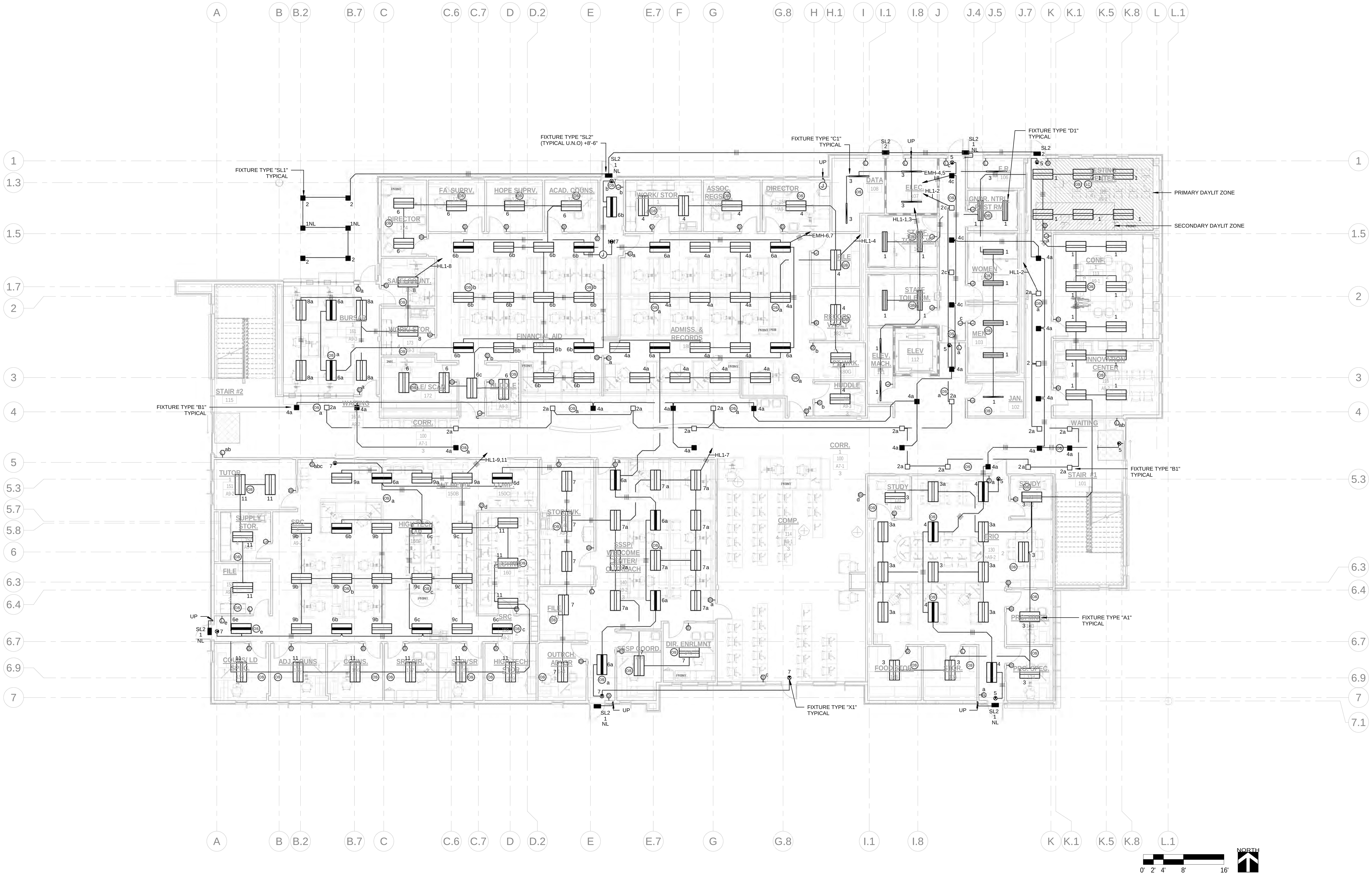
drawn by: FBA	checked by: RR
date: 9.03.2019	

Rev:	date:	description:

drawing title:
ENLARGED SITE LIGHTING PLAN

drawing no.:
ES-3



1ST FLOOR LIGHTING PLAN

1

SCALE 1/8" = 1'-0"

LIGHTING CONTROL SYMBOLS

- (OS) LIGHTING OCCUPANCY SENSOR ON FLUSH CEILING MOUNTED OUTLET BOX.
- (LC) LIGHT LEVEL PHOTOCELL CONTROLLER ON FLUSH CEILING MOUNTED OUTLET BOX.
- (L) LIGHTING ON/OFF CONTROLLER ON FLUSH IN WALL OUTLET BOX, +45".
- (D) LIGHTING DIMMING CONTROLLER ON FLUSH IN WALL OUTLET BOX, +45".
- (E) LIGHTING ENTRANCE CONTROLLER ON FLUSH IN WALL OUTLET BOX, +45".
- (I) INSTRUCTOR LIGHTING CONTROLLER ON FLUSH IN WALL OUTLET BOX, +45".

GENERAL NOTE

ALL BUILDING MOUNTED OUTDOOR LIGHTING INDICATED ON EMERGENCY, IS CONNECTED TO EMERGENCY LIGHTING BATTERY INVERTER TO PROVIDE 90 MINUTES OF EMERGENCY ILLUMINATION.

LIGHTING CONTROL PERFORMANCE NOTES

1. LIGHTING CONTROL WIRING NOT SHOWN ON LIGHTING PLANS FOR CLARITY. REFER TO LIGHTING CONTROL DIAGRAMS AND SPECIFICATIONS FOR LIGHTING CONTROL SYSTEM DEVICE AND WIRING REQUIREMENTS. CONTRACTOR SHALL INCLUDE ALL COSTS IN BID FOR A COMPLETE AND OPERABLE SYSTEM.
2. THE ABOVE CEILING SPACE IS AN OPEN-AIR PLENUM. CONTRACTOR SHALL PROVIDE ALL LIGHTING CONTROL WIRING IN MINIMUM 3/4 IN. CONDUIT. INCLUDE ALL COSTS IN BID TO COMPLY WITH THIS PROVISION.
3. PLACEMENT OF LIGHTING OCCUPANCY SENSORS AND LIGHT LEVEL CONTROL SENSORS ARE DIAGRAMMATIC. ALL SENSORS SHALL BE MOUNTED CENTERED IN THE CEILING TILES.
4. LIGHTING OCCUPANCY SENSORS SHALL BE PLACED 4 FEET FROM ANY HVAC REGISTERS WHEREVER POSSIBLE TO AVOID AIR FLOW.
5. CONTRACTOR SHALL INCLUDE ALL PROGRAMMING AND START UP IN BID. ALL LIGHTING CONTROLS SHALL BE SET TO THE COLLEGE'S SATISFACTION.
6. PROVIDE LIGHTING CONTROL SYSTEM CONTROLLED RECEPTACLES IN ACCORDANCE WITH CEC TITLE-24 REQUIREMENTS. REFER TO POWER PLANS FOR CONTROLLED RECEPTACLE LOCATIONS.

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COMPTON, CA 90221

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tBP project number: 20987.00

file name: CC_SS_E_R18_Central.rvt

drawn by: FBA checked by: RR

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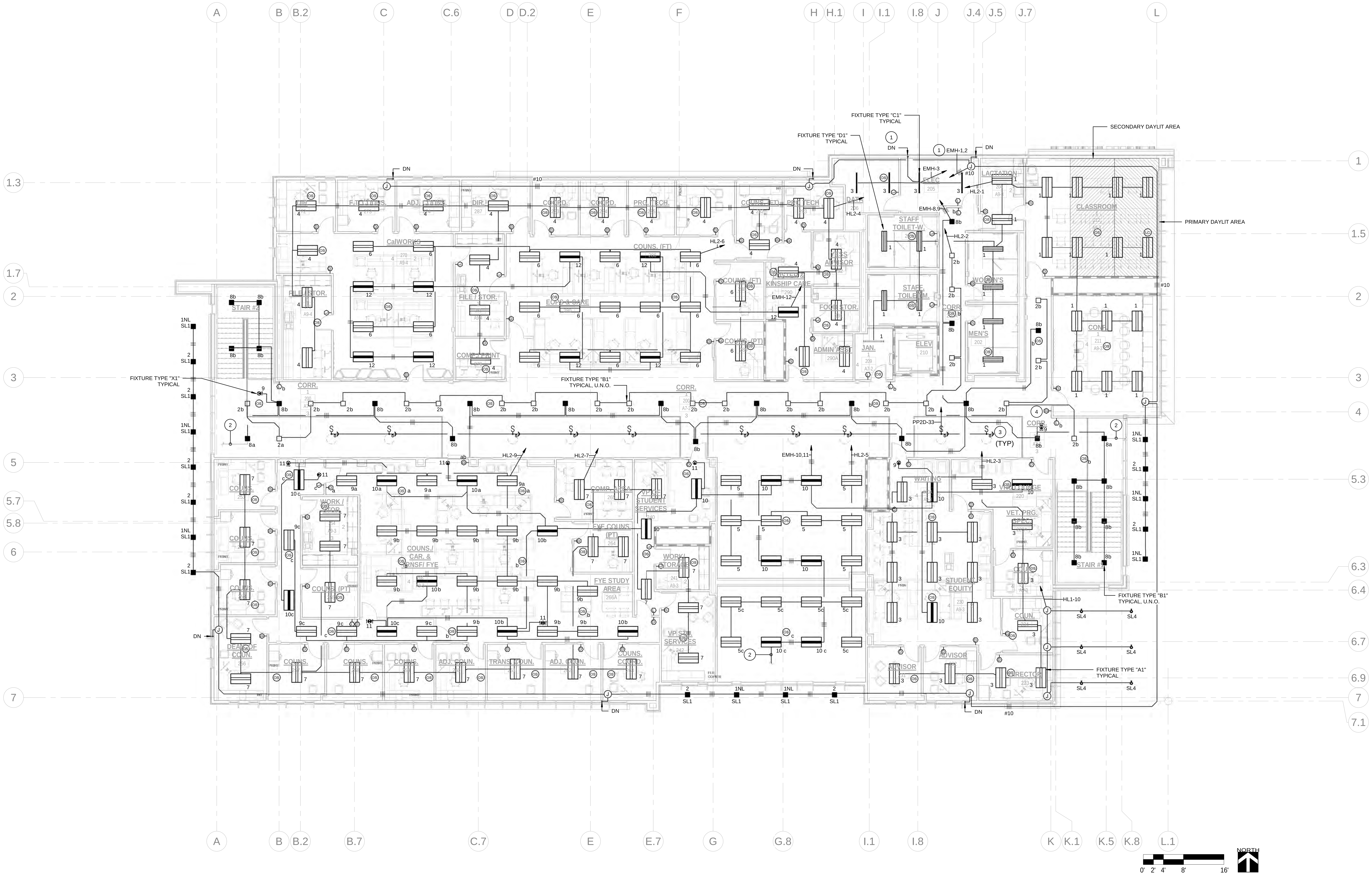
drawing title:
1ST FLOOR LIGHTING PLAN

drawing no.:
E1-1



2ND FLOOR LIGHTING PLAN 1
SCALE 1/8" = 1'-0"

LIGHTING CONTROL SYMBOLS

- OS LIGHTING OCCUPANCY SENSOR ON FLUSH CEILING MOUNTED OUTLET BOX.
- LC LIGHT LEVEL PHOTOCELL CONTROLLER ON FLUSH CEILING MOUNTED OUTLET BOX.
- L LIGHTING ON/OFF CONTROLLER ON FLUSH IN WALL OUTLET BOX, +45".
- D LIGHTING DIMMING CONTROLLER ON FLUSH IN WALL OUTLET BOX, +45".
- E LIGHTING ENTRANCE CONTROLLER ON FLUSH IN WALL OUTLET BOX, +45".
- I INSTRUCTOR LIGHTING CONTROLLER ON FLUSH IN WALL OUTLET BOX, +45".

KEY NOTES

1 ROUTE VIA LIGHTING CONTROL RELAY PANEL "MLCP".
2 PROVIDE AND INSTALL 2#12, 1#12 GRD. - 1/2"C. DOWN TO EXIT SIGN.
3 CONNECT TO TUBULAR SKYLIGHT POWER SUPPLY AND TO SKYLIGHT DIMMER MOTOR PER MANUFACTURER'S INSTRUCTION.
4 SOLATUBE DIMMER, FLUSH WALL MOUNTED OUTLET BOX AT +45", UNO.

GENERAL NOTE

ALL BUILDING MOUNTED OUTDOOR LIGHTING INDICATED ON EMERGENCY, IS CONNECTED TO EMERGENCY LIGHTING BATTERY INVERTER TO PROVIDE 90 MINUTES OF EMERGENCY ILLUMINATION.

LIGHTING CONTROL PERFORMANCE NOTES

1. LIGHTING CONTROL WIRING NOT SHOWN ON LIGHTING PLANS FOR CLARITY. REFER TO LIGHTING CONTROL DIAGRAMS AND SPECIFICATIONS FOR LIGHTING CONTROL SYSTEM DEVICE AND WIRING REQUIREMENTS. CONTRACTOR SHALL INCLUDE ALL COSTS IN BID FOR A COMPLETE AND OPERABLE SYSTEM.
2. THE ABOVE CEILING SPACE IS AN OPEN-AIR PLENUM. CONTRACTOR SHALL PROVIDE ALL LIGHTING CONTROL WIRING IN MINIMUM 3/4 IN. CONDUIT. INCLUDE ALL COSTS IN BID TO COMPLY WITH THIS PROVISION.
3. PLACEMENT OF LIGHTING OCCUPANCY SENSORS AND LIGHT LEVEL CONTROL SENSORS ARE DIAGRAMMATIC. ALL SENSORS SHALL BE MOUNTED CENTERED IN THE CEILING TILES.
4. LIGHTING OCCUPANCY SENSORS SHALL BE PLACED 4 FEET FROM ANY HVAC REGISTERS WHEREVER POSSIBLE TO AVOID AIR FLOW.
5. CONTRACTOR SHALL INCLUDE ALL PROGRAMMING AND START UP IN BID. ALL LIGHTING CONTROLS SHALL BE SET TO THE COLLEGE'S SATISFACTION.
6. PROVIDE LIGHTING CONTROL SYSTEM CONTROLLED RECEPTACLES IN ACCORDANCE WITH CEC TITLE-24 REQUIREMENTS. REFER TO POWER PLANS FOR CONTROLLED RECEPTACLE LOCATIONS.

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2ND FLOOR LIGHTING PLAN

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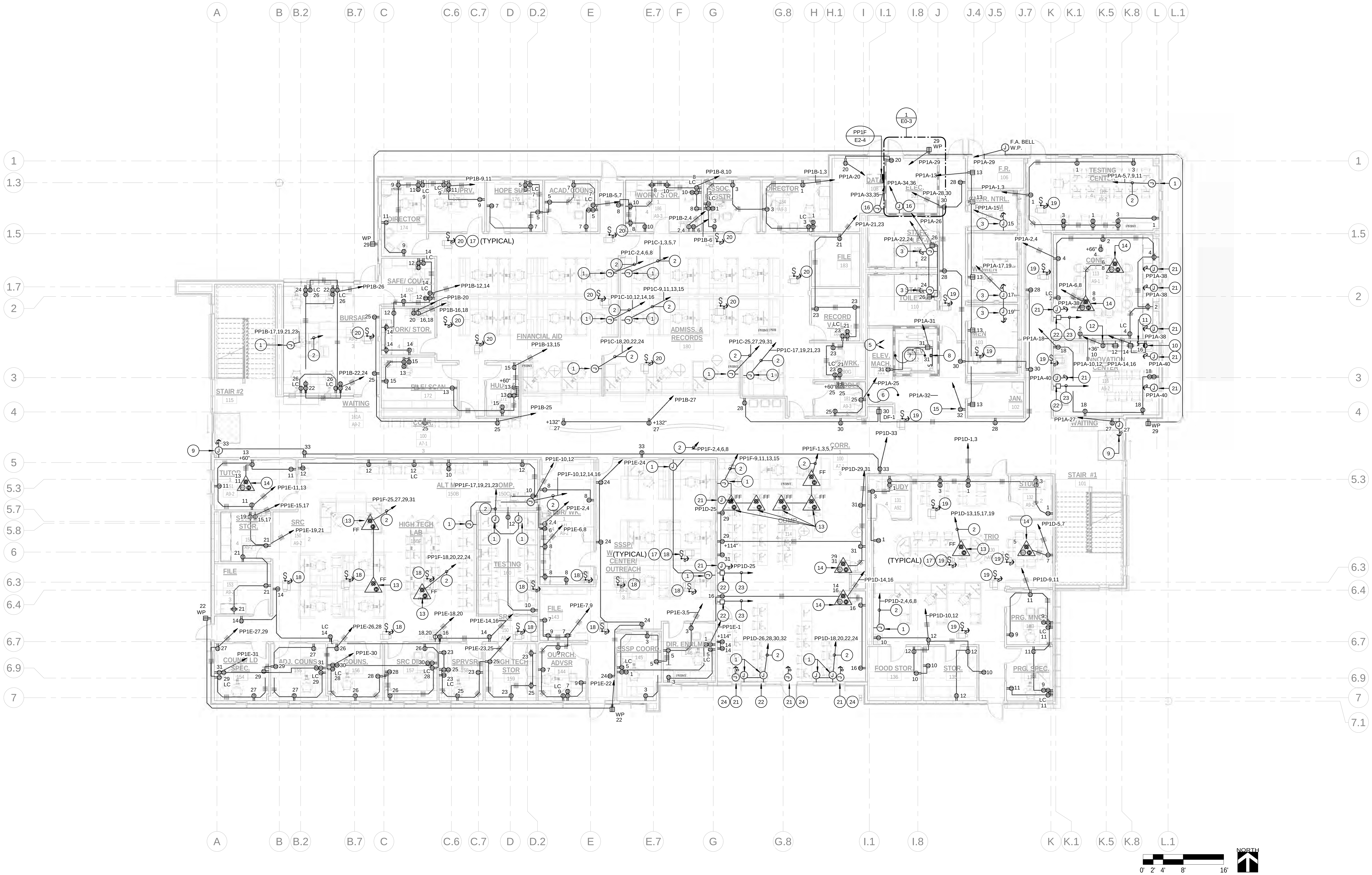
E1-2



1ST FLOOR POWER PLAN (1)

SCALE 1/8" = 1'-0"

KEY NOTES

1. PROVIDE SEAL-TITE FLEX CONNECTION TO ELECTRIFIED FURNITURE SYSTEM WIRING HARNESS. THE FURNITURE SYSTEM IS A "2 GENERAL PURPOSE + 2 ISOLATED CIRCUIT" SYSTEM. VERIFY EXACT POINT OF CONNECTION LOCATION WITH THE FURNITURE SYSTEMS DRAWINGS. INSTALL IN ACCORDANCE WITH THE FURNITURE SYSTEM MANUFACTURER'S WIRING REQUIREMENTS.
2. PROVIDE 4#10 (H.), 1#10 (COMMON NEUTRAL), 1#10 (ISOLATED NEUTRAL), 1#10 (COMMON GROUND) AND 1#10 (ISOLATED GROUND)-1.25 IN. CONDUIT.
3. CONNECT TO ELECTRIC HAND DRYER IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S REQUIREMENTS. REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR LOCATIONS AND MOUNTING HEIGHTS OF HAND DRYERS.
4. CONNECT TO ELEVATOR SMOKE CURTAIN SYSTEM. INSTALL ALL ELECTRICAL IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION REQUIREMENTS.
5. CONNECT TO ELEVATOR CONTROLLER IN ACCORDANCE WITH THE ELEVATOR MANUFACTURER'S REQUIREMENTS.
6. PROVIDE AND INSTALL ALL ELECTRICAL DEVICES IN THE ELEVATOR MACHINE ROOM IN LOCATIONS IN ACCORDANCE WITH THE ELEVATOR MANUFACTURER'S SHOP DRAWINGS. PROVIDE ALL CODE REQUIRED CLEARANCES.
7. PROVIDE AND INSTALL ALL ELECTRICAL DEVICES IN THE ELEVATOR PIT IN ACCORDANCE WITH THE ELEVATOR MANUFACTURER'S SHOP DRAWINGS.
8. PROVIDE AND INSTALL 2'-0" LONG SURFACE MOUNTED LED LIGHTING FIXTURE IN ELEVATOR PIT IN ACCORDANCE WITH THE ELEVATOR MANUFACTURER'S REQUIREMENTS. LIGHTING FIXTURE SHALL BE METALUX #2VT2-LD4-DR100-UNV-L940-WL OR EQUAL BY LITHONIA, PHILIPS DAYBRITE.
9. CONNECT TO POWER ASSISTED DOOR IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S REQUIREMENTS.
10. PROVIDE AND INSTALL RECEPTACLE BELOW SINK FOR CONNECTION TO DISPOSAL.
11. ENGRAVE SWITCH COVERPLATE TO READ: "DISPOSAL".
12. PROVIDE AND INSTALL RECEPTACLE FOR CONNECTION TO REFRIGERATOR, +36 IN. AFF.
13. PROVIDE AND INSTALL COMBINATION POWER/DATA FLOOR BOX, FLUSH IN FLOOR, WITH FURNITURE FEED COVER IN FINISH AS SELECTED BY ARCHITECT AND CONNECTION TO THE FURNITURE SYSTEM. PROVIDE SEAL-TITE FLEX CONDUIT CONNECTION, MINIMUM 1.0 IN. FOR POWER AND 1.25 IN. FOR TELECOM. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONED LOCATIONS.
14. PROVIDE AND INSTALL COMBINATION POWER/DATA/AV FLOOR BOX, FLUSH IN FLOOR, WITH IN USE COVERPLATE IN FINISH AS SELECTED BY ARCHITECT. PROVIDE 1.0 IN. MINIMUM POWER CONDUIT, 1.25 IN. MINIMUM VOICE/DATA CONDUIT AND 1.25 IN. MINIMUM AV CONDUIT FROM BELOW GRADE, UP INTO WALL TO ABOVE THE ACCESSIBLE CEILING. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONED LOCATIONS.
15. PROVIDE AND INSTALL RECEPTACLE FOR KWIKBOOST CHARGING STATION. INSTALL IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S REQUIREMENTS.
16. CONNECT TO FCU/FAN COIL UNIT. INSTALL IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S REQUIREMENTS.
17. PROVIDE CONNECTION TO VAV BOX.. INSTALL IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. VERIFY EXACT LOCATION AND QUANTITY WITH MECHANICAL DRAWINGS.
18. PROVIDE 2#12, 1#12 GRD - 3/4"C. CONNECT TO CIRCUIT "PP1F-26".
19. PROVIDE 2#12, 1#12 GRD - 3/4"C. CONNECT TO CIRCUIT "PP1D-21".
20. PROVIDE 2#12, 1#12 GRD - 3/4"C. CONNECT TO CIRCUIT "PP1C-26".
21. CONNECT TO MOTOR OPERATED SHADES IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S REQUIREMENTS.
22. PROVIDE SHADE CONTROLLER IN FLUSH WALL OUTLET BOX, +45".
23. PROVIDE 3/4"C., WITH CONTROL WIRING IN ACCORDANCE WITH THE SHADE MANUFACTURER'S REQUIREMENTS.
24. CONNECT TO CIRCUIT "PP1D-23".

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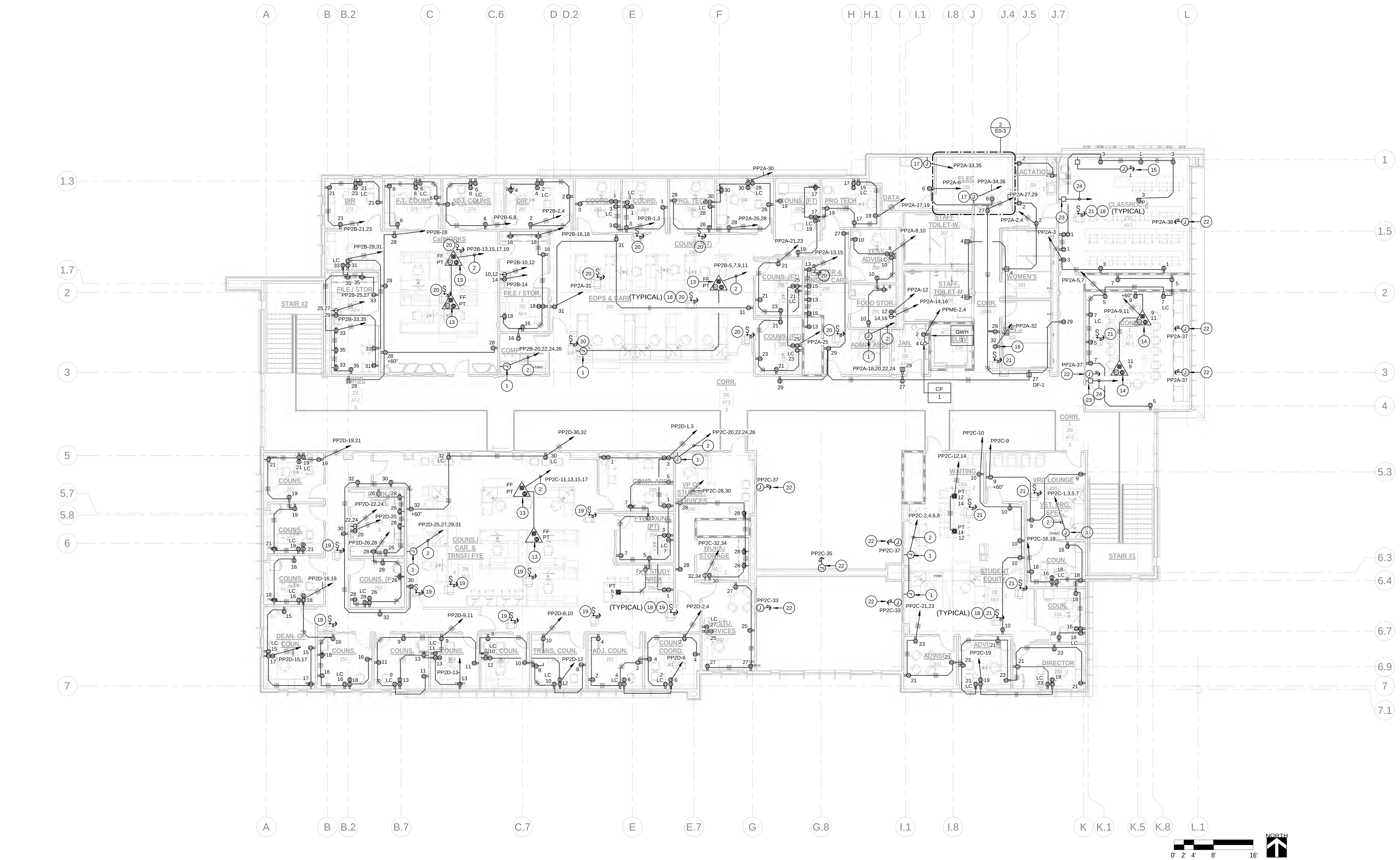

2ND FLOOR POWER PLAN

SCALE 1/8" = 1'-0"

1

KEY NOTES

1. PROVIDE SEAL-TITE FLEX CONNECTION TO ELECTRIFIED FURNITURE SYSTEM WIRING HARNESS. THE FURNITURE SYSTEM IS A "2 GENERAL PURPOSE + 2 ISOLATED CIRCUIT" SYSTEM. VERIFY EXACT POINT OF CONNECTION LOCATION WITH THE FURNITURE SYSTEMS DRAWINGS. INSTALL IN ACCORDANCE WITH THE FURNITURE SYSTEM MANUFACTURER'S WIRING REQUIREMENTS.
2. PROVIDE 4#10 (H.), 1#10 (COMMON NEUTRAL), 1#10 (ISOLATED NEUTRAL), 1#10 (COMMON GROUND) AND 1#10 (ISOLATED GROUND)-1.25 IN. CONDUIT.
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6. PROVIDE AND INSTALL ALL ELECTRICAL DEVICES IN THE ELEVATOR MACHINE ROOM IN LOCATIONS IN ACCORDANCE WITH THE ELEVATOR MANUFACTURER'S SHOP DRAWINGS. PROVIDE ALL CODE REQUIRED CLEARANCES.
7. PROVIDE AND INSTALL ALL ELECTRICAL DEVICES IN THE ELEVATOR PIT IN ACCORDANCE WITH THE ELEVATOR MANUFACTURER'S SHOP DRAWINGS.
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15. CONNECT TO MOTOR OPERATED PROJECTION SCREEN IN ACCORDANCE WITH THE SCREEN MANUFACTURERS RECOMMENDATIONS.
16. PROVIDE AND INSTALL RECEPTACLE FOR KWIKBOOST CHARGING STATION. INSTALL IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S REQUIREMENTS.
17. CONNECT TO FCU/FAN COIL UNIT. INSTALL IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S REQUIREMENTS.
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19. PROVIDE 2#12, 1#12 GRD - 3/4"C. CONNECT TO CIRCUIT "PP2C-29".
20. PROVIDE 2#12, 1#12 GRD - 3/4"C. CONNECT TO CIRCUIT "PP2B-30".
21. PROVIDE 2#12, 1#12 GRD - 3/4"C. CONNECT TO CIRCUIT "PP2C-31".
22. CONNECT TO MOTOR OPERATED SHADES IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S REQUIREMENTS.
23. PROVIDE SHADE CONTROLLER IN FLUSH WALL OUTLET BOX, +45".
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2ND FLOOR POWER PLAN

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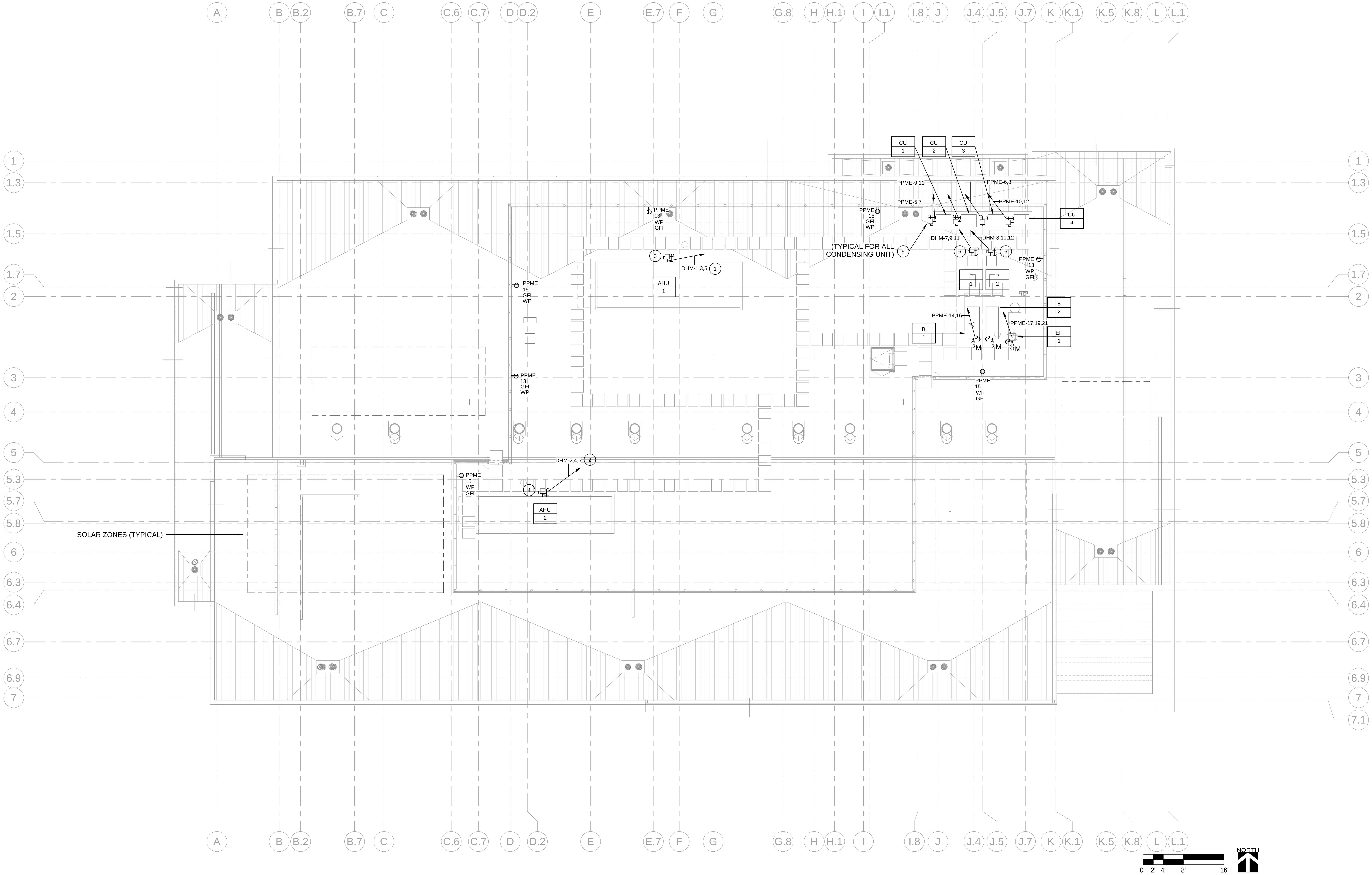

ROOF ELECTRICAL PLAN 1
SCALE 1/8" = 1'-0"

PLAN NOTES

1. PROVIDE 2"C - 3#1/0, 1#6 GRD.
2. PROVIDE 2"C - 3#1, 1#8 GRD.
3. PROVIDE 600V - 3P - 150A FUSED DISCONNECT SWITCH. THE FUSE SIZE SHALL MATCH THE BREAKER SIZE OF SAME BRANCH CIRCUIT/FEEDER IN THE PANEL.
4. PROVIDE 600V - 3P - 100A FUSED DISCONNECT SWITCH. THE FUSE SIZE SHALL MATCH THE BREAKER SIZE OF SAME BRANCH CIRCUIT/FEEDER IN THE PANEL.
5. PROVIDE 240V - 2P - 20A FUSED DISCONNECT SWITCH. THE FUSE SIZE SHALL MATCH THE BREAKER SIZE OF SAME BRANCH CIRCUIT/FEEDER IN THE PANEL.
6. PROVIDE 240V - 3P - 20A FUSED DISCONNECT SWITCH. THE FUSE SIZE SHALL MATCH THE BREAKER SIZE OF SAME BRANCH CIRCUIT/FEEDER IN THE PANEL.

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ROOF ELECTRICAL PLAN

drawing no.:
E2-3

Branch Panel: PP1B

Project Name

Location: ELEC. 107 **Supply From:** DPP1 **Mounting:** Surface
Volts: 120/208 Wye **Phases:** 3 **Wires:** 4 **Isolated Ground Bus:**
A.I.C. Rating: 10K **Mains Type:** **Mains Rating:** 225 A **MCB Rating:** 150 A

CKT	Circuit Description	Quan	Trip	Pole	A	A	B	B	C	C	Pole	Trip	Quan	Circuit Description	CKT
1	Receptacle DIRECTOR 184, ASSOC. 185	3	20 A	1	980 VA	600 VA					2	20 A	1	Copier WORK/ STOR. 186	2
3	Receptacle DIRECTOR 184, ASSOC. 185	5	20 A	1			900 VA	600 VA			--	--	--	--	4
5	Receptacle ACAD. COUNS. 177, HOPE 176	4	20 A	1					1160...	1200...	1	20 A	1	Copier WORK/ STOR. 186	6
7	Receptacle ACAD. COUNS. 177, HOPE 176	6	20 A	1	1080...	900 VA					1	20 A	5	Receptacle WORK/ STOR. 186	8
9	Receptacle FA SUPRV. 175, DIR. 174	5	20 A	1			900 VA	940 VA			1	20 A	4	Receptacle WORK/ STOR. 186	10
11	Receptacle FA SUPRV. 175, DIR. 174	5	20 A	1					980 VA	980 VA	1	20 A	3	Receptacle WORK/ STOR. 162, STOR. 173	12
13	Receptacle FILE/ SCAN 172, HUDDLE 171	4	20 A	1	1280...	1080...					1	20 A	6	Receptacle WORK/ STOR. 162, STOR. 173	14
15	Receptacle FILE/SCAN 172, HUDDLE 171	4	20 A	1			940 VA	600 VA			2	20 A	1	Copier STOR. 173	16
17	Furniture System OPEN OFC. 161	1	20 A	1					500 VA	600 VA	--	--	--	--	18
19	Furniture System OPEN OFC. 161	1	20 A	1	500 VA	1200...					1	20 A	1	Copier STOR. 173	20
21	Furniture System OPEN OFC. 161	1	20 A	1			500 VA	800 VA			1	20 A	2	Receptacle OPEN OFC. 161	22
23	Furniture System OPEN OFC. 161	1	20 A	1					500 VA	800 VA	1	20 A	2	Receptacle OPEN OFC. 161	24
25	Receptacle CORRIDOR 161A	4	20 A	1	720 VA	720 VA					1	20 A	4	Receptacle OPEN OFC. 161	26
27	TV Monitors WAITING 1421	2	20 A	1			600 VA	0 VA			1	20 A	--	Spare	28
29	Spare	--	20 A	1					0 VA	0 VA	1	20 A	--	Spare	30
31	Spare	--	20 A	1	0 VA	0 VA					1	20 A	--	Spare	32
33	Spare	--	20 A	1			0 VA	0 VA			1	20 A	--	Spare	34
35	Spare	--	20 A	1					0 VA	0 VA	1	20 A	--	Spare	36
37	Provision	--	--	--	0 VA	0 VA					--	--	--	Provision	38
39	Provision	--	--	--			0 VA	0 VA			--	--	--	Provision	40
41	Provision	--	--	--					0 VA	0 VA	--	--	--	Provision	42
				Total Load:	9060 VA		6780 VA		6720 VA						
				Total Amps:	76 A		57 A		56 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	2000 VA	100.00%	2000 VA		
Receptacle	20560 VA	74.32%	15280 VA	Total Conn. Load:	22560 VA
				Total Est. Demand:	17280 VA
				Total Conn.:	63 A
				Total Est. Demand:	48 A

Notes:

Branch Panel: PP1A

Project Name

Location: ELEC. 107 **Supply From:** DPP1 **Mounting:** Surface
Volts: 120/208 Wye **Phases:** 3 **Wires:** 4 **Isolated Ground Bus:**
A.I.C. Rating: 10K **Mains Type:** **Mains Rating:** 225 A **MCB Rating:** 150 A

CKT	Circuit Description	Quan	Trip	Pole	A	A	B	B	C	C	Pole	Trip	Quan	Circuit Description	CKT
1	Receptacle TESTING 122	4	20 A	1	940 VA	720 VA					1	20 A	4	Receptacle CONF 113	2
3	Receptacle TESTING 122	3	20 A	1			980 VA	840 VA			1	20 A	4	Receptacle CONF 113	4
5	Furniture System TESTING 122	1	20 A	1					500 VA	1000...	1	20 A	2	Receptacle CONF 113	6
7	Furniture System TESTING 122	1	20 A	1	500 VA	1000...					1	20 A	2	Receptacle CONF 113	8
9	Furniture System TESTING 122	1	20 A	1			500 VA	810 VA			1	20 A	1	Refrigerator INNOVATION 116	10
11	Furniture System TESTING 122	1	20 A	1					500 VA	1200...	1	20 A	1	Receptacle @Counter INNOVATION 116	12
13	Receptacle RM. 106,105,104,103,102	5	20 A	1	900 VA	1200...					1	20 A	1	Receptacle @Counter INNOVATION 116	14
15	Hand Dryer GNDR. NTRL. REST RM 105	1	20 A	1			1500...	700 VA			1	20 A	1	Garbage Disposal INNOVATION 116	16
17	Hand Dryer WOMEN'S 104	1	20 A	1					1500...	900 VA	1	20 A	4	Receptacle INNOVATION 116	18
19	Hand Dryer MEN'S 103	1	20 A	1	1500...	360 VA					1	20 A	2	Receptacle DATA 108, ELEC. 107	20
21	Receptacle RM. 183,182,180G	3	20 A	1			980 VA	1500...			1	20 A	1	Hand Dryer STAFF. RM 109	22
23	Receptacle RM. 182,180G	5	20 A	1					900 VA	1500...	1	20 A	1	Hand Dryer STAFF. RM 110	24
25	Receptacle HUDDLE 181	4	20 A	1	840 VA	360 VA					1	20 A	2	Receptacle STAFF. RM 109,110	26
27	Receptacle/Door Assist WAI 100A	2	20 A	1			780 VA	900 VA			1	20 A	5	Receptacle CORR 100	28
29	Receptacle OUTDOOR	3	20 A	1					540 VA	1320...	1	20 A	5	Receptacle/DF-1 CORR 100	30
31	Receptacle/Lighting ELEV 112	3	20 A	1	389 VA	1800...					1	20 A	1	KwikBoost CORR.-1 100-1	32
33	FCU-1-117 DATA 108	1	20 A	2			312 VA	312 VA			2	20 A	1	FCU-1-118 ELEC. 107	34
35	--	--	--	--					312 VA	312 VA	--	--	--	--	36
37	F.A. BELL F.R. 106	1	20 A	1	180 VA	1000...					1	20 A	4	Motor Shades CONF 113	38
39	Provision	--	--	--			0 VA	750 VA			1	20 A	3	Motor Shades INNOVATION CENTER 116	40
41	Provision	--	--	--					0 VA	0 VA	--	--	--	Provision	42
				Total Load:	11689 VA		10864 VA		10484 VA						
				Total Amps:	98 A		91 A		87 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	1277 VA	100.00%	1277 VA		
Motor	1750 VA	100.00%	1750 VA	Total Conn. Load:	33037 VA
Other	2000 VA	100.00%	2000 VA	Total Est. Demand:	28172 VA
Power	8280 VA	100.00%	8280 VA	Total Conn.:	92 A
Receptacle	19730 VA	75.34%	14865 VA	Total Est. Demand:	78 A

Notes:

Branch Panel: HL1

Project Name

Location: ELEC. 107 **Supply From:** MBDH **Mounting:** Surface
Volts: 480/277 Wye **Phases:** 3 **Wires:** 4 **Isolated Ground Bus:**
A.I.C. Rating: 22K **Mains Type:** **Mains Rating:** 225 A **MCB Rating:** 100 A

CKT	Circuit Description	Quan	Trip	Pole	A	A	B	B	C	C	Pole	Trip	Quan	Circuit Description	CKT
1	Lighting 1ST FLOOR	29	20 A	1	1111...	522 VA					1	20 A	18	Lighting 1ST FLOOR	2
3	Lighting 1ST FLOOR	15	20 A	1			795 VA	1113...			1	20 A	21	Lighting 1ST FLOOR	4
5	Spare	--	20 A	1					0 VA	1007...	1	20 A	19	Lighting 1ST FLOOR	6
7	Lighting 1ST FLOOR	16	20 A	1	848 VA	318 VA					1	20 A	6	Lighting 1ST FLOOR	8
9	Lighting 1ST FLOOR	14	20 A	1			742 VA	264 VA			1	20 A	6	Lighting OUTDOOR	10
11	Lighting 1ST FLOOR	13	20 A	1					689 VA	1155...	1	20 A	7	Lighting SITE	12
13	Spare	--	20 A	1	0 VA	990 VA					1	20 A	6	Lighting SITE	14
15	Spare	--	20 A	1			0 VA	0 VA			1	20 A	--	Spare	16
17	Spare	--	20 A	1					0 VA	5508...	1	30 A	1	EMH Inverter Panel	18
19	Spare	--	20 A	1	0 VA	0 VA					1	20 A	--	Spare	20
21	Spare	--	20 A	1			0 VA	0 VA			1	20 A	--	Spare	22
23	Spare	--	20 A	1					0 VA	0 VA	1	20 A	--	Spare	24
25	Spare	--	20 A	1	0 VA	0 VA					1	20 A	--	Spare	26
27	Spare	--	20 A	1			0 VA	0 VA			1	20 A	--	Spare	28
29	Spare	--	20 A	1					0 VA	0 VA	1	20 A	--	Spare	30
31	HL2	1	60 A	3	2995...	0 VA					1	20 A	--	Spare	32
33	--	--	--	--			3127...	0 VA			1	20 A	--	Spare	34
35	--	--	--	--					1643...	0 VA	1	20 A	--	Spare	36
37	Spare	--	20 A	1	0 VA	0 VA					1	20 A	--	Spare	38
39	Spare	--	20 A	1			0 VA	0 VA			1	20 A	--	Spare	40
41	Spare	--	20 A	1					0 VA	0 VA	1	20 A	--	Spare	42
				Total Load:	6703 VA		6041 VA		9911 VA						
				Total Amps:	25 A		22 A		36 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	5808 VA	100.00%	5808 VA		
Other	16950 VA	100.00%	16950 VA	Total Conn. Load:	22640 VA
				Total Est. Demand:	22640 VA
				Total Conn.:	27 A
				Total Est. Demand:	27 A

Notes:

Branch Panel: PP1E

Project Name

Location: ELEC. 107 **Supply From:** DPP1 **Mounting:** Surface
Volts: 120/208 Wye **Phases:** 3 **Wires:** 4 **Isolated Ground Bus:**
A.I.C. Rating: 10K **Mains Type:** **Mains Rating:** 225 A **MCB Rating:** 150 A

CKT	Circuit Description	Quan	Trip	Pole	A	A	B	B	C	C	Pole	Trip	Quan	Circuit Description	CKT
1	Receptacle OUTRCH. ADVSR 146, 145	2	20 A	1	800 VA	600 VA					2	20 A	1	Copier STOR 141	2
3	Receptacle OUTRCH. ADVSR 146, 145	4	20 A	1			720 VA	600 VA			--	--	--	--	4
5	Receptacle OUTRCH. ADVSR 146 145	4	20 A	1					720 VA	1200...	1	20 A	1	Copier STOR 141	6
7	Receptacle FILE. 143, OUTRCH. ADVSR 144	4	20 A	1	940 VA	900 VA					1	20 A	5	Receptacle STOR 141	8
9	Receptacle FILE. 143, OUTRCH. ADVSR 144	4	20 A	1			720 VA	760 VA			1	20 A	3	Receptacle COMP. 150C, WAI 150A,TESTIN...	10
11	Receptacle TUTOR 151	4	20 A	1					1040...	900 VA	1	20 A	5	Receptacle COMP. 150C, WAI 150A,TESTIN...	12
13	Receptacle TUTOR 151	2	20 A	1	800 VA	720 VA					1	20 A	4	Receptacle SRC 150	14
15	Receptacle SUPPLY STOR. 1702	1	20 A	2			600 VA	1200...			1	20 A	1	Copier SRC 150	16
17	--	--	--	--					600 VA	600 VA	2	20 A	1	Copier SRC 150	18
19	Receptacle SUPPLY STOR. 152,FILE 153	1	20 A	1	1200...	600 VA					--	--	--	--	20
21	Receptacle SUPPLY STOR. 152,FILE 153	4	20 A	1			720 VA	360 VA			1	20 A	2	Receptacle OUTDOOR	22
23	Receptacle STOR 159, SPRVSR 158	5	20 A	1					900 VA	720 VA	1	20 A	4	Receptacle CORRIDOR	24
25	Receptacle STOR 159, SPRVSR 158	4	20 A	1	940 VA	720 VA					1	20 A	4	Receptacle SRC DIR. 157,COUNS. 156	26
27	Receptacle ADJ. COUNS 155,154	4	20 A	1			720 VA	720 VA			1	20 A	4	Receptacle SRC DIR. 157,COUNS. 156	28
29	Receptacle ADJ. COUNS 155,154	4	20 A	1					720 VA	800 VA	1	20 A	2	Receptacle SRC DIR. 157,COUNS. 156	30
31	Receptacle ADJ. COUNS 155,154	2	20 A	1	800 VA	0 VA					1	20 A	--	Spare	32
33	Spare	--	20 A	1			0 VA	0 VA			1	20 A	--	Spare	34
35	Spare	--	20 A	1					0 VA	0 VA	1	20 A	--	Spare	36
37	Provision	--	--	--	0 VA	0 VA					--	--	--	Provision	38
39	Provision	--	--	--			0 VA	0 VA			--	--	--	Provision	40
41	Provision	--	--	--					0 VA	0 VA	--	--	--	Provision	42
				Total Load:	9020 VA		7120 VA		8200 VA						
				Total Amps:	77 A		59 A		70 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	24340 VA	70.54%	17170 VA		
				Total Conn. Load:	24340 VA
				Total Est. Demand:	17170 VA
				Total Conn.:	68 A
				Total Est. Demand:	48 A

Notes:

Branch Panel: PP1D

Project Name

Location: ELEC. 107 **Supply From:** DPP1 **Mounting:** Surface
Volts: 120/208 Wye **Phases:** 3 **Wires:** 4 **Isolated Ground Bus:**
A.I.C. Rating: 10K **Mains Type:** **Mains Rating:** 225 A **MCB Rating:** 150 A

CKT	Circuit Description	Quan	Trip	Pole	A	A	B	B	C	C	Pole	Trip	Quan	Circuit Description	CKT
1	Receptacle STUDY 131,132	4	20 A	1	1080...	500 VA					1	20 A	1	Furniture System TRIO 130	2
3	Receptacle STUDY 131,132	3	20 A	1			900 VA	500 VA			1	20 A	1	Furniture System TRIO 130	4
5	Receptacle TRIO 130	1	20 A	1					500 VA	500 VA	1	20 A	1	Furniture System TRIO 130	6
7	Receptacle TRIO 130	2	20 A	1	680 VA	500 VA					1	20 A	1	Furniture System TRIO 130	8
9	Receptacle MNGR. 133, SPEC. 134	3	20 A	1			980 VA	720 VA			1	20 A	4	Receptacle STOR. 136,135	10
11	Receptacle MNGR. 133, SPEC. 134	5	20 A	1					900 VA	720 VA	1	20 A	4	Receptacle STOR. 136,135	12
13	Receptacle COMP 130A	1	20 A	1	500 VA	980 VA					1	20 A	3	Receptacle/Floor Box COMP. 114	14
15	Receptacle COMP 130A	1	20 A	1			500 VA	1040...			1	20 A	4	Receptacle/Floor Box COMP. 114	16
17	Receptacle COMP 130A	1	20 A	1					500 VA	1000...	1	20 A	2	Furniture System COMP. 114	18
19	Receptacle COMP 130A	1	20 A	1	500 VA	1000...					1	20 A	2	Furniture System COMP. 114	20
21	VAV Boxes 1ST FLOOR	11	20 A	1			550 VA	1000...			1	20 A	2	Furniture System COMP. 114	22
23	Motor Shades COMP. 114	3	20 A	1					750 VA	1000...	1	20 A	2	Furniture System COMP. 114	24
25	Motor Shades COMP. 114	2	20 A	1	500 VA	1000...					1	20 A	2	Furniture System COMP. 114	26
27	Spare	--	20 A	1			0 VA	1000...			1	20 A	2	Furniture System COMP. 114	28
29	Receptacle/Floor BOx COMP. 114	3	20 A	1					980 VA	1000...	1	20 A	2	Furniture System COMP. 114	30
31	Receptacle/Floor Box COMP. 114	4	20 A	1	1040...	1000...					1	20 A	2	Furniture System COMP. 114	32
33	Receptacle/Door Assist CORRIDOR 100	4	20 A	1			1140...	0 VA			1	20 A	--	Spare	34
35	Spare	--	20 A	1					0 VA	0 VA	1	20 A	--	Spare	36
37	Provision	--	--	--	0 VA	0 VA					--	--	--	Provision	38
39	Provision	--	--	--			0 VA	0 VA			--	--	--	Provision	40
41	Provision	--	--	--					0 VA	0 VA	--	--	--	Provision	42
				Total Load:	9280 VA		8227 VA		7850 VA						
				Total Amps:	78 A		69 A		65 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	1250 VA	100.00%	1250 VA		
Other	10000 VA	100.00%	10000 VA	Total Conn. Load:	25352 VA
Power	1091 VA	100.00%	1091 VA	Total Est. Demand:	23822 VA
Receptacle	13060 VA	88.28%	11530 VA	Total Conn.:	70 A
				Total Est. Demand:	66 A

Notes:

Branch Panel: PP1C

Project Name

Location: ELEC. 107 **Supply From:** DPP1 **Mounting:** Surface
Volts: 120/208 Wye **Phases:** 3 **Wires:** 4 **Isolated Ground Bus:**
A.I.C. Rating: 10K **Mains Type:** **Mains Rating:** 225 A **MCB Rating:** 150 A

CKT	Circuit Description	Quan	Trip	Pole	A	A	B	B	C	C	Pole	Trip	Quan	Circuit Description	CKT
1	Furniture System RECRD. 180	1	20 A	1	500 VA	500 VA					1	20 A	1	Furniture System AID 170	2
3	Furniture System RECRD. 180	1	20 A	1			500 VA	500 VA			1	20 A	1	Furniture System AID 170	4
5	Furniture System RECRD. 180	1	20 A	1					500 VA	500 VA	1	20 A	1	Furniture System AID 170	6
7	Furniture System RECRD. 180	1	20 A	1	500 VA	500 VA					1	20 A	1	Furniture System AID 170	8
9	Furniture System RECRD. 180	1	20 A	1			500 VA	500 VA			1	20 A	1	Furniture System AID 170	10
11	Furniture System RECRD. 180	1	20 A	1					500 VA	500 VA	1	20 A	1	Furniture System AID 170	12
13	Furniture System RECRD. 180	1	20 A	1	500 VA	500 VA					1	20 A	1	Furniture System AID 170	14
15	Furniture System RECRD. 180	1	20 A	1			500 VA	500 VA			1	20 A	1	Furniture System AID 170	16
17	Furniture System RECRD. SPEC. 180	1	20 A	1					500 VA	500 VA	1	20 A	1	Furniture System RECEP 170C	18
19	Furniture System RECRD. SPEC. 180	1	20 A	1	500 VA	500 VA					1	20 A	1	Furniture System RECEP 170C	20
21	Furniture System RECRD. SPEC. 180	1	20 A	1			500 VA	500 VA			1	20 A	1	Furniture System RECEP 170C	22
23	Furniture System RECRD. SPEC. 180	1	20 A	1					500 VA	500 VA	1	20 A	1	Furniture System RECEP 170C	24
25	Furniture System FRONT 180E	1	20 A	1	500 VA	500 VA					1	20 A	10	VAV Boxes 1ST FLOOR	26
27	Furniture System FRONT 180E	1	20 A	1			500 VA	0 VA			1	20 A	--	Spare	28
29	Furniture System FRONT 180E	1	20 A	1					500 VA	0 VA	1	20 A	--	Spare	30
31	Furniture System FRONT 180E	1	20 A	1	500 VA	0 VA					1	20 A	--	Spare	32
33	Spare	--	20 A	1			0 VA	0 VA			1	20 A	--	Spare	34
35	Spare	--	20 A	1					0 VA	0 VA	1	20 A	--	Spare	36
37	Provision	--	--	--	0 VA	0 VA					--	--	--	Provision	38
39	Provision	--	--	--			0 VA	0 VA			--	--	--	Provision	40
41	Provision	--	--	--					0 VA	0 VA	--	--	--	Provision	42
				Total Load:	5408 VA		4500 VA		4500 VA						
				Total Amps:	45 A		38 A		38 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	14000 VA	100.00%	14000 VA		
Power	500 VA	100.00%	500 VA	Total Conn. Load:	14403 VA
				Total Est. Demand:	14403 VA
				Total Conn.:	40 A
				Total Est. Demand:	40 A

Notes:

INVERTER PANEL SCHEDULE: EMH

Project: Project Name **Mains:**
Location: ELEC 205
Supply From: HL1
Volts: 480/277 Wye

CKT	Circuit Description	Voltage	Quantity	Rating	Number of Poles	Load	Control
1	Lighting EXTERIOR	277 V	15	20 A	1	416 VA	
2	Lighting EXTERIOR	277 V	15	20 A	1	426 VA	
3	Lighting 1ST FLOOR	277 V	9	20 A	1	225 VA	
4	Lighting 1ST FLOOR	277 V	23	20 A	1	763 VA	
5	Exit Sign 1ST FLOOR	277 V	6	20 A	1	240 VA	
6	Lighting 1ST FLOOR	277 V	23	20 A	1	1219 VA	
7	Exit Sign 1ST FLOOR	277 V	6	20 A	1	120 VA	
8	Lighting 2ND FLOOR	277 V	27	20 A	1	783 VA	
9	Exit Sign 2ND FLOOR	277 V	3	20 A	1	0 VA	
10	Lighting 2ND FLOOR	277 V	20	20 A	1	1060 VA	
11	Exit Sign 2ND FLOOR	277 V	6	20 A	1	0 VA	
12	Lighting 2ND FLOOR	277 V	9	20 A	1	477 VA	
13	Spare	--	--	20 A	1	0 VA	
14	Spare	--	--	20 A	1	0 VA	
15	Spare	--	--	20 A	1	0 VA	
16	Spare	--	--	20 A	1	0 VA	
17	Spare	--	--	20 A	1	0 VA	
18	Spare	--	--	20 A	1	0 VA	
19	Spare	--	--	20 A	1	0 VA	
20	Spare	--	--	20 A	1	0 VA	
						Total Conn. Load:	5508 VA
						Total Amps:	7 A

Notes:
PT/TC - PHOTOCELL ON / TIMECLOCK OFF FUNCTION OF LIGHTING CONTROL PANEL
PC/PC - PHOTOCELL ON / PHOTOCELL OFF FUNCTION OF LIGHTING CONTROL PANEL
LC - LIGHTING CONTROL SYSTEM

Branch Panel: BDF1

Project Name

Location: DATA 108 **Supply From:** UPS **Mounting:** Surface
Volts: 120/208 Wye **Phases:** 3 **Wires:** 4 **Isolated Ground Bus:**
A.I.C. Rating: 10K **Mains Type:** **Mains Rating:** 100 A **MCB Rating:** 100 A

CKT	Circuit Description	Quan	Trip	Pole	A	A	B	B	C	C	Pole	Trip	Quan	Circuit Description	CKT
1	FACP1 DATA 108	1	20 A	1	500 VA	1500...					1	20 A	1	Receptacle DATA 108	2
3	FAMP DATA 108	1	20 A	1			500 VA	1500...			1	20 A	1	Receptacle DATA 108	4
5	FPS1 DATA 108	1	20 A	1					500 VA	360 VA	1	20 A	2	Receptacle DATA 108	6
7	ACP DATA108	1	20 A	1	500 VA	360 VA					1	20 A	2	Receptacle DATA 108	8
9	ID PANEL DATA 108	1	20 A	1			500 VA	180 VA			1	20 A	1	Receptacle DATA 108	10
11	Spare	--	20 A	1					0 VA	180 VA	1	20 A	1	Receptacle DATA 108	12
13	Spare	--	20 A	1	0 VA	0 VA					1	20 A	--	Spare	14
15	Spare	--	20 A	1			0 VA	0 VA			1	20 A	--	Spare	16
17	Spare	--	20 A	1					0 VA	0 VA	1	20 A	--	Spare	18
19	Spare	--	20 A	1	0 VA	0 VA					1	20 A	--	Spare	20
21	Spare	--	20 A	1			0 VA	0 VA			1	20 A	--	Spare	22
23	Spare	--	20 A	1					0 VA	0 VA	1	20 A	--	Spare	24
25	Spare	--	20 A	1	0 VA	2860...					3	100 A	1	IDF2 DATA 206	26
27	Spare	--	20 A	1			0 VA	2000...			--	--	--	--	28
29	Spare	--	20 A	1					0 VA	540 VA	--	--	--	--	30
				Total Load:	5720 VA		4680 VA		1580 VA						
				Total Amps:	52 A		43 A		13 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	7980 VA	100.00%	7980 VA		
				Total Conn. Load:	7980 VA
				Total Est. Demand:	7980 VA
				Total Conn.:	22 A
				Total Est. Demand:	22 A

Notes:

Branch Panel: PP1F

Project Name

Location: DATA 108 **Supply From:** DPP1 **Mounting:** Surface
Volts: 120/208 Wye **Phases:** 3 **Wires:** 4 **Isolated Ground Bus:**
A.I.C. Rating: 10K **Mains Type:** **Mains Rating:** 225 A **MCB Rating:** 150 A

CKT	Circuit Description	Quan	Trip	Pole	A	A	B	B	C	C	Pole	Trip	Quan	Circuit Description	CKT
1	Receptacle COMP. 114	3	20 A	1	1500...	1000...					1	20 A	2	Furniture System PRG. TECH. 140F	2
3	Receptacle COMP. 114	3	20 A	1			1500...	1000...			1	20 A	2	Furniture System PRG. TECH. 140F	4
5	Receptacle COMP. 114	3	20 A	1					1500...	1000...	1	20 A	2	Furniture System PRG. TECH. 140F	6
7	Receptacle COMP. 114	3	20 A	1	1500...	1000...					1	20 A	2	Furniture System PRG. TECH. 140F	8
9	Receptacle COMP. 114	3	20 A	1			1500...	1000...			1	20 A	2	Furniture System COMP. 150C	10
11	Receptacle COMP. 114	3	20 A	1					1500...	1000...	1	20 A	2	Furniture System COMP. 150C	12
13	Receptacle COMP. 114	3	20 A	1	1500...	1000...					1	20 A	2	Furniture System COMP. 150C	14
15	Receptacle COMP. 114	3	20 A	1			1500...	1000...			1	20 A	2	Furniture System COMP. 150C	16
17	Furniture System TESTING 160	2	20 A	1					1000...	500 VA	1	20 A	1	Receptacle HIGH TECH LAB 150F	18
19	Furniture System TESTING 160	2	20 A	1	1000...	500 VA					1	20 A	1	Receptacle HIGH TECH LAB 150F	20
21	Furniture System TESTING 160	2	20 A	1			1000...	500 VA			1	20 A	1	Receptacle HIGH TECH LAB 150F	22
23	Furniture System TESTING 160	2	20 A	1					1000...	500 VA	1	20 A	1	Receptacle HIGH TECH LAB 150F	24
25	Receptacle SS ADVSR 150	2	20 A	1	1000...	550 VA					1	20 A	11	VAV BOXES 1ST FLOOR	26
27	Receptacle SS ADVSR 150	2	20 A	1			1000...	0 VA			1	20 A	--	Spare	28
29	Receptacle SS ADVSR 150	2	20 A	1					1000...	0 VA	1	20 A	--	Spare	30
31	Receptacle SS ADVSR 150	2	20 A	1	1000...	0 VA					1	20 A	--	Spare	32
33	Spare	--	20 A	1			0 VA	0 VA			1	20 A	--	Spare	34
35	Spare	--	20 A	1					0 VA	0 VA	1	20 A	--	Spare	36
37	Provision	--	--	--	0 VA	0 VA					--	--	--	Provision	38
39	Provision	--	--	--			0 VA	0 VA			--	--	--	Provision	40
41	Provision	--	--	--					0 VA	0 VA	--	--	--	Provision	42
				Total Load:	11445 VA		10000 VA		9000 VA						
				Total Amps:	97 A		85 A		75 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	14000 VA	100.00%	14000 VA		
Power	550 VA	100.00%	550 VA	Total Conn. Load:	30442 VA
Receptacle	16000 VA	81.25%	13000 VA	Total Est. Demand:	27442 VA
				Total Conn.:	84 A
				Total Est. Demand:	76 A

Notes:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-119686 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/14/2019

DIVISION OF THE STATE ARCHITECT
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consultant

COMPTON COLLEGE
STUDENT SERVICES BLDG.

COMPTON COMMUNITY COLLEGE DISTRICT
1111 E. ARTESIA BLVD.
COMPTON, CA 90221
owner

tBP project number: 20987.00
file name: CC_SS_E_R18_Central.rvt
drawn by: FBA checked by: RR
date: 9.03.2019

rev:	date:	description:

drawing title:
PANEL SCHEDULES

drawing no.:
E2-4

Branch Panel: PP2B

Project Name

Location: ELEC 205 | Volts: 120/208 Wye | A.I.C. Rating: 10K
Supply From: DPP2 | Phases: 3 | Mains Type:
Mounting: Surface | Wires: 4 | Mains Rating: 225 A
Isolated Ground Bus: | MCB Rating: 150 A

CKT	Circuit Description	Quan	Trip	Pole	A		B		C		Pole	Trip	Quan	Circuit Description	CKT
1	Receptacle COORD. 284,283	3	20 A	1	980 VA	540 VA					1	20 A	3	Receptacle DIR. 287	2
3	Receptacle COORD. 284,283	5	20 A	1			900 VA	580 VA			1	20 A	2	Receptacle DIR. 287	4
5	Receptacle EOPS & CARE 280	2	20 A	1					1000...	1080...	1	20 A	6	Receptacle ADJ. COUNS. 274,273	6
7	Receptacle EOPS & CARE 280	2	20 A	1	1000...	980 VA					1	20 A	3	Receptacle ADJ. COUNS. 274,273	8
9	Receptacle EOPS & CARE 280	2	20 A	1			1000...	600 VA			2	20 A	1	Copier FILE / STOR. 281	10
11	Receptacle EOPS & CARE 280	2	20 A	1					1000...	600 VA	--	--	--	--	12
13	Receptacle PRG. SPEC. 2507	2	20 A	1	1000...	1200...					1	20 A	1	Copier FILE / STOR. 281	14
15	Receptacle PRG. SPEC. 2507	2	20 A	1			1000...	720 VA			1	20 A	4	Receptacle FILE / STOR. 281	16
17	Receptacle PRG. SPEC. 2507	2	20 A	1					1000...	760 VA	1	20 A	3	Receptacle FILE / STOR. 281	18
19	Receptacle PRG. SPEC. 2507	2	20 A	1	1000...	500 VA					1	20 A	1	Furniture System COMP./ PRINT 280B	20
21	Receptacle DIR 2503	4	20 A	1			720 VA	500 VA			1	20 A	1	Furniture System COMP./ PRINT 280B	22
23	Receptacle DIR 2503	1	20 A	1					400 VA	500 VA	1	20 A	1	Furniture System COMP./ PRINT 280B	24
25	Copier FILE / STOR. 271	1	20 A	2	600 VA	500 VA					1	20 A	1	Furniture System COMP./ PRINT 280B	26
27	--	--	--	--			600 VA	1020...			1	20 A	5	Receptacle OPEN OFC 270,CORR. 200	28
29	Copier FILE./ STOR. 271	1	20 A	1					1200...	500 VA	1	20 A	10	VAV Boxes 2ND FLOOR	30
31	Receptacle GAIN 270G,STOR. 271	3	20 A	1	1200...	0 VA					1	20 A	--	Spare	32
33	Receptacle GAIN 270G,STOR. 271	4	20 A	1			720 VA	0 VA			1	20 A	--	Spare	34
35	Receptacle FILE./ STOR. 271	4	20 A	1					720 VA	0 VA	1	20 A	--	Spare	36
37	Provision	--	--	--	0 VA	0 VA					--	--	--	Provision	38
39	Provision	--	--	--			0 VA	0 VA			--	--	--	Provision	40
41	Provision	--	--	--					0 VA	0 VA	--	--	--	Provision	42
				Total Load:	9500 VA		8360 VA		8665 VA						
				Total Amps:	80 A		70 A		73 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	4000 VA	100.00%	4000 VA		
Power	500 VA	100.00%	500 VA	Total Conn. Load:	26522 VA
Receptacle	22120 VA	72.60%	16060 VA	Total Est. Demand:	20462 VA
				Total Conn.:	74 A
				Total Est. Demand:	57 A

Notes:

Branch Panel: PP2A

Project Name

Location: ELEC 205 | Volts: 120/208 Wye | A.I.C. Rating: 10K
Supply From: DPP2 | Phases: 3 | Mains Type:
Mounting: Surface | Wires: 4 | Mains Rating: 225 A
Isolated Ground Bus: | MCB Rating: 150 A

CKT	Circuit Description	Quan	Trip	Pole	A		B		C		Pole	Trip	Quan	Circuit Description	CKT
1	Receptacle CLASS. 212	5	20 A	1	1240...	720 VA					1	20 A	4	Receptacle LACTATION 204	2
3	Receptacle CLASS. 212	2	20 A	1			1020...	720 VA			1	20 A	4	Receptacle WOMEN'S 203,MEN'S 202	4
5	Receptacle CONF. 211	4	20 A	1					720 VA	360 VA	1	20 A	2	Receptacle ELEC 205,DATA 206	6
7	Receptacle CONF. 211	4	20 A	1	720 VA	580 VA					1	20 A	2	Receptacle YESS ADVISOR 292,STOR. 291	8
9	Receptacle CONF. 211	3	20 A	1			1300...	720 VA			1	20 A	4	Receptacle YESS ADVISOR 292,STOR. 291	10
11	Receptacle CONF. 211	2	20 A	1					1000...	1200...	1	20 A	1	Copier FOOD STOR. 291	12
13	Receptacle FOSTER 290	3	20 A	1	1200...	600 VA					2	20 A	1	Copier FOOD STOR. 291	14
15	Receptacle FOSTER 290	2	20 A	1			800 VA	600 VA			--	--	--	--	16
17	Receptacle PRO TECH 293,COUNS. 282	4	20 A	1					1160...	500 VA	1	20 A	1	Furniture System ADMIN ASST 290A	18
19	Receptacle PRO TECH 293,COUNS. 282	6	20 A	1	1080...	500 VA					1	20 A	1	Furniture System ADMIN ASST 290A	20
21	Receptacle COUNS. 288,289	5	20 A	1			900 VA	500 VA			1	20 A	1	Furniture System ADMIN ASST 290A	22
23	Receptacle COUNS. 288,289	3	20 A	1					540 VA	500 VA	1	20 A	1	Furniture System ADMIN ASST 290A	24
25	Receptacle COUNS. 288,289	2	20 A	1	800 VA	360 VA					1	20 A	2	Receptacle COUNS. (FT) 2404	26
27	Receptacle/DF-1 CORRIDOR 200	4	20 A	1			1140...	720 VA			1	20 A	4	Receptacle COUNS. (FT) 2404	28
29	Receptacle CORRIDOR 200	5	20 A	1					900 VA	980 VA	1	20 A	3	Receptacle COUNS. (FT) 2404	30
31	Receptacle CORRIDOR 2400	3	20 A	1	540 VA	1800...					1	20 A	1	KwikBoost CORR. 200	32
33	FCU-1-210 DATA 206	1	20 A	2			312 VA	312 VA			2	20 A	1	FCU-1-211 ELEC 205	34
35	--	--	--	--					312 VA	312 VA	--	--	--	--	36
37	Motor Shades CONF 211	3	20 A	1	750 VA	250 VA					1	20 A	1	Motor Shades CLASSROOM 212	38
39	Spare	--	20 A	1			0 VA	0 VA			--	--	--	Provision	40
41	Provision	--	--	--					0 VA	0 VA	--	--	--	Provision	42
				Total Load:	11140 VA		9044 VA		8484 VA						
				Total Amps:	94 A		76 A		71 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	1248 VA	100.00%	1248 VA		
Motor	1300 VA	100.00%	1300 VA	Total Conn. Load:	28668 VA
Other	2000 VA	100.00%	2000 VA	Total Est. Demand:	21608 VA
Receptacle	24120 VA	70.73%	17060 VA	Total Conn.:	80 A
				Total Est. Demand:	60 A

Notes:

Branch Panel: HL2

Project Name

Location: ELEC 205 | Volts: 480/277 Wye | A.I.C. Rating: 22K
Supply From: HL1 | Phases: 3 | Mains Type:
Mounting: Surface | Wires: 4 | Mains Rating: 100 A
Isolated Ground Bus: | MCB Rating: 60 A

CKT	Circuit Description	Quan	Trip	Pole	A		B		C		Pole	Trip	Quan	Circuit Description	CKT
1	Lighting 2ND FLOOR	25	20 A	1	1056...	667 VA					1	20 A	23	Lighting 2ND FLOOR	2
3	Lighting 2ND FLOOR	17	20 A	1			901 VA	1219...			1	20 A	23	Lighting 2ND FLOOR	4
5	Lighting 2ND FLOOR	14	20 A	1					742 VA	901 VA	1	20 A	17	Lighting 2ND FLOOR	6
7	Lighting 2ND FLOOR	24	20 A	1	1272...	0 VA					1	20 A	--	Spare	8
9	Lighting 2ND FLOOR	19	20 A	1			1007...	0 VA			1	20 A	--	Spare	10
11	Spare	--	20 A	1					0 VA	0 VA	1	20 A	--	Spare	12
13	Spare	--	20 A	1	0 VA	0 VA					1	20 A	--	Spare	14
15	Spare	--	20 A	1			0 VA	0 VA			1	20 A	--	Spare	16
17	Spare	--	20 A	1					0 VA	0 VA	1	20 A	--	Spare	18
19	Spare	--	20 A	1	0 VA	0 VA					1	20 A	--	Spare	20
21	Spare	--	20 A	1			0 VA	0 VA			1	20 A	--	Spare	22
23	Spare	--	20 A	1					0 VA	0 VA	1	20 A	--	Spare	24
25	Spare	--	20 A	1	0 VA	0 VA					1	20 A	--	Spare	26
27	Spare	--	20 A	1			0 VA	0 VA			1	20 A	--	Spare	28
29	Spare	--	20 A	1					0 VA	0 VA	1	20 A	--	Spare	30
				Total Load:	2995 VA		3127 VA		1643 VA						
				Total Amps:	12 A		12 A		6 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	667 VA	100.00%	667 VA		
Other	7098 VA	100.00%	7098 VA	Total Conn. Load:	7765 VA
				Total Est. Demand:	7765 VA
				Total Conn.:	9 A
				Total Est. Demand:	9 A

Notes:

Branch Panel: IDF2

Project Name

Location: DATA 206 | Volts: 120/208 Wye | A.I.C. Rating: 10K
Supply From: BDF1 | Phases: 3 | Mains Type:
Mounting: Surface | Wires: 4 | Mains Rating: 100 A
Isolated Ground Bus: | MCB Rating: 60 A

CKT	Circuit Description	Quan	Trip	Pole	A		B		C		Pole	Trip	Quan	Circuit Description	CKT
1	FPS2 DATA 206	1	20 A	1	500 VA	1500...					1	20 A	1	Receptacle DATA 206	2
3	Spare	--	20 A	1			0 VA	1500...			1	20 A	1	Receptacle DATA 206	4
5	Spare	--	20 A	1					0 VA	540 VA	1	20 A	3	Receptacle DATA 206	6
7	IDCP DATA 206	1	20 A	1	500 VA	360 VA					1	20 A	2	Receptacle DATA 206	8
9	ACT2 DATA 206	1	20 A	1			500 VA	0 VA			1	20 A	--	Spare	10
11	Spare	--	20 A	1					0 VA	0 VA	1	20 A	--	Spare	12
13	Spare	--	20 A	1	0 VA	0 VA					1	20 A	--	Spare	14
15	Spare	--	20 A	1			0 VA	0 VA			1	20 A	--	Spare	16
17	Spare	--	20 A	1					0 VA	0 VA	1	20 A	--	Spare	18
19	Spare	--	20 A	1	0 VA	0 VA					1	20 A	--	Spare	20
21	Spare	--	20 A	1			0 VA	0 VA			1	20 A	--	Spare	22
23	Spare	--	20 A	1					0 VA	0 VA	1	20 A	--	Spare	24
25	Spare	--	20 A	1	0 VA	0 VA					1	20 A	--	Spare	26
27	Spare	--	20 A	1			0 VA	0 VA			1	20 A	--	Spare	28
29	Spare	--	20 A	1					0 VA	0 VA	1	20 A	--	Spare	30
				Total Load:	2860 VA		2000 VA		540 VA						
				Total Amps:	26 A		19 A		5 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	3900 VA	100.00%	3900 VA		
				Total Conn. Load:	3900 VA
				Total Est. Demand:	3900 VA
				Total Conn.:	11 A
				Total Est. Demand:	11 A

Notes:

Branch Panel: PP2D

Project Name

Location: ELEC 205 | Volts: 120/208 Wye | A.I.C. Rating: 10K
Supply From: DPP2 | Phases: 3 | Mains Type:
Mounting: Surface | Wires: 4 | Mains Rating: 225 A
Isolated Ground Bus: | MCB Rating: 150 A

CKT	Circuit Description	Quan	Trip	Pole	A		B		C		Pole	Trip	Quan	Circuit Description	CKT
1	Receptacle COMP. 250H,STUDY 265	3	20 A	1	1200...	720 VA					1	20 A	4	Receptacle COUNS. COORD. 263,262	2
3	Receptacle COMP. 250H,COUNS. 264	2	20 A	1			800 VA	720 VA			1	20 A	4	Receptacle COUNS. COORD. 263,262	4
5	Receptacle COMP. 250H,COUNS. 264,STUD...	4	20 A	1					1040...	800 VA	1	20 A	2	Receptacle COUNS. COORD. 263,262	6
7	Receptacle COMP. 250H,COUNS. 264,STUD...	5	20 A	1	1220...	540 VA					1	20 A	3	Receptacle TRANS. COUN. 261,260	8
9	Receptacle COUNS. 259,258	3	20 A	1			540 VA	720 VA			1	20 A	4	Receptacle TRANS. COUN. 261,260	10
11	Receptacle COUNS. 259,258	4	20 A	1					720 VA	800 VA	1	20 A	2	Receptacle TRANS. COUN. 261,260	12
13	Receptacle COUNS. 259,258	4	20 A	1	1160...	0 VA					1	20 A	--	Spare	14
15	Receptacle DEAN. OF COUN. 256	3	20 A	1			540 VA	1080...			1	20 A	6	Receptacle COUNS. 257,253	16
17	Receptacle DEAN. OF COUN. 256	2	20 A	1					580 VA	1160...	1	20 A	4	Receptacle COUNS. 257,253	18
19	Receptacle COUNS. 251,525	5	20 A	1	900 VA	1200...					1	20 A	1	Copier WORK / STOR. 254	20
21	Receptacle COUNS. 251,252	4	20 A	1			1160...	600 VA			2	20 A	1	Copier WORK / STOR. 254	22
23	Spare	--	20 A	1					0 VA	600 VA	--	--	--	--	24
25	Furniture System EXPS. COUN. 250E	1	20 A	1	500 VA	1240...					1	20 A	5	Receptacle WORK / STOR. 254,255	26
27	Furniture System EXPS. COUN. 250E	1	20 A	1			500 VA	1080...			1	20 A	6	Receptacle WORK / STOR. 254,255	28
29	Furniture System EXPS. COUN. 250E	1	20 A	1					500 VA	720 VA	1	20 A	4	Receptacle WAITING 250A,CORRIDOR	30
31	Furniture System EXPS. COUN. 250E	1	20 A	1	500 VA	840 VA					1	20 A	4	Receptacle WAITING 250A,CORRIDOR	32
33	Tubular Skylight CORR 200	10	20 A	1			1200...	0 VA			1	20 A	--	Spare	34
35	Spare	--	20 A	1					0 VA	0 VA	1	20 A	--	Spare	36
37	Provision	--	--	--	0 VA	0 VA					--	--	--	Provision	38
39	Provision	--	--	--			0 VA	0 VA			--	--	--	Provision	40
41	Provision	--	--	--					0 VA	0 VA	--	--	--	Provision	42
				Total Load:	10020 VA		8730 VA		6920 VA						
				Total Amps:	86 A		75 A		58 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	3000 VA	100.00%	3000 VA		
Power	1200 VA	100.00%	1200 VA	Total Conn. Load:	25650 VA
Receptacle	21680 VA	73.06%	15840 VA	Total Est. Demand:	19813 VA
				Total Conn.:	71 A
				Total Est. Demand:	55 A

Notes:

Branch Panel: PP2C

Project Name

Location: ELEC 205 | Volts: 120/208 Wye | A.I.C. Rating: 10K
Supply From: DPP2 | Phases: 3 | Mains Type:
Mounting: Surface | Wires: 4 | Mains Rating: 225 A
Isolated Ground Bus: | MCB Rating: 150 A

CKT	Circuit Description	Quan	Trip	Pole	A		B		C		Pole	Trip	Quan	Circuit Description	CKT
1	Furniture System VET. PRG. SPEC. 220A	1	20 A	1	500 VA	1000...					1	20 A	2	Furniture System TAR. SUPRT. CNTR. 230B	2
3	Furniture System VET. PRG. SPEC. 220A	1	20 A	1			500 VA	1000...			1	20 A	2	Furniture System TAR. SUPRT. CNTR. 230B	4
5	Furniture System VET. PRG. SPEC. 220A	1	20 A	1					500 VA	1000...	1	20 A	2	Furniture System TAR. SUPRT. CNTR. 230B	6
7	Furniture System VET. PRG. SPEC. 220A	1	20 A	1	500 VA	1000...					1	20 A	2	Furniture System TAR. SUPRT. CNTR. 230B	8
9	Receptacle VRC 220	3	20 A	1			660 VA	900 VA			1	20 A	5	Receptacle WAITING 2908	10
11	Receptacle COUNS. 266	2	20 A	1					1000...	1000...	1	20 A	2	Floor Receptacle TAR. SUPRT. CNTR. 230B	12
13	Receptacle COUNS. 266	2	20 A	1	1000...	1000...					1	20 A	2	Floor Receptacle TAR. SUPRT. CNTR. 230B	14
15	Receptacle COUNS. 266	2	20 A	1			1000...	980 VA			1	20 A	3	Receptacle COUN. 221,234	16
17	Receptacle COUNS. 266	2	20 A	1					1000...	1080...	1	20 A	6	Receptacle COUN. 221,234	18
19	Receptacle ADVISOR 232,DIR 233	2	20 A	1	800 VA	500 VA					1	20 A	1	Furniture System ADMIN ASST. 240B	20
21	Receptacle ADVISOR 231,232/DIR 233	6	20 A	1			1080...	500 VA			1	20 A	1	Furniture System ADMIN ASST. 240B	22
23	Receptacle ADVISOR 231,232/DIR 233	5	20 A	1					900 VA	500 VA	1	20 A	1	Furniture System ADMIN ASST. 240B	24
25	Receptacle VP STU. SERVICES 242	2	20 A	1	580 VA	500 VA					1	20 A	1	Furniture System ADMIN ASST. 240B	26
27	Receptacle VP STU. SERVICES 242	4	20 A	1			720 VA	900 VA			1	20 A	5	Receptacle VP OF SUDENT SERVICES 240	28
29	VAV Boxes 2ND FLOOR	9	20 A	1					450 VA	1200...	1	20 A	1	Copier WORK/ STOR. 241	30
31	Power CLASSROOM 212	7	20 A	1	350 VA	600 VA					2	20 A	1	Copier WORK/ STOR. 241	32
33	Motor Shades COMP 114	2	20 A	1			500 VA	600 VA			--	--	--	--	34
35	Motor Shades COMP 114	1	20 A	1					250 VA	0 VA	1	20 A	--	Spare	36
37	Motor Shades COMP 114	2	20 A	1	500 VA	0 VA					--	--	--	Provision	38
39	Provision	--	--	--			0 VA	0 VA			--	--	--	Provision	40
41	Provision	--	--	--					0 VA	0 VA	--	--	--	Provision	42
				Total Load:	8763 VA		9340 VA		8794 VA						
				Total Amps:	73 A		78 A		73 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	1250 VA	100.00%	1250 VA		
Other	10000 VA	100.00%	10000 VA	Total Conn. Load:	26894 VA
Power	800 VA	100.00%	800 VA	Total Est. Demand:	24395 VA
Receptacle	15000 VA	83.33%	12500 VA	Total Conn.:	75 A
				Total Est. Demand:	68 A

Notes:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-119686 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/14/2019

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COMPTON COLLEGE
STUDENT SERVICES BLDG.

COMPTON COMMUNITY COLLEGE DISTRICT
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COMPTON, CA 90221

owner

tBP project number: 20987.00

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drawing title:
PANEL SCHEDULES

drawing no.:
E2-5

FIRE ALARM EQUIPMENT SCHEDULE

FIRE ALARM SYSTEM EQUIPMENT SCHEDULE

QTY	ITEM DESCRIPTION	SYMBOL	MOUNTING	CATALOG NUMBER	CSFM LISTING NUMBER
1	FIRE ALARM CONTROL PANEL WITH VOICE EVACUATION "FACP"		+72" AFF TO TOP OF CABINET	SIMPLEX 4100ES 4100-9114	7165-0026-0369
2	FIRE ALARM 70.7V REMOTE AMPLIFIER FLEX 50, 50WATT AMPLIFIER "FAMP_"		+60" AFF TO TOP OF CABINET	SIMPLEX 4100-1313	7165-0026-0369
1	FIRE ALARM LCD REMOTE ANNUNCIATOR "FANN"		+66" AFF TO TOP OF CABINET	SIMPLEX 4603-9101	7120-0026-0225
2	FIRE ALARM REMOTE POWER SUPPLY "FPS_"		+60" AFF TO TOP OF CABINET	SIMPLEX EPS	7300-0026-0214
1	ADDRESSABLE MANUAL PULL STATION ON FLUSH WALL MOUNTED OUTLET BOX	F	+48" AFF TO CENTER	SIMPLEX 4099-9006	7150-0026:0224
176	ADDRESSABLE PHOTO SMOKE DETECTOR ON FLUSH CEILING MOUNTED OUTLET BOX		CEILING	SIMPLEX 4098-9714	7272-0026:0218
1	ADDRESSABLE HEAT DETECTOR ON FLUSH CEILING MOUNTED OUTLET BOX	C	CEILING	SIMPLEX 4098-9733	7270-0026:0216
5	ADDRESSABLE MONITOR MODULE MOUNTS TO 4S DEEP BOX W/4S EXT	MM	FIELD VERIFY	SIMPLEX 4090-9001	7300-0026:0223
2	ADDRESSABLE CONTROL MODULE MOUNTS TO 4S DEEP BOX W/4S EXT	CM	FIELD VERIFY	SIMPLEX 4090-9002	7300-0026:0223
8	ADDRESSABLESINGLE INPUT RELAY MODULE MOUNTS TO 4S DEEP BOX W/4S EXT	CR	FIELD VERIFY	SIMPLEX 4090-9007	7300-0026:0223
12	WEATHERPROOF SPEAKER ON FLUSH WALL MOUNTED IN WEATHERPROOF BACKBOX	WP 1W	+90" AFF TO TOP	COOPER/WHEELOCK ET1010-R	7320-0785:0105
38	FIRE ALARM SPEAKER/STROBE CEILING MOUNTED IN A 4S DEEPBOX W/4S EXT (#CD DENOTES CANDELA)	#CD	CEILING	COOPER/WHEELOCK E90-24MCC-FW	7125-0785:0152
25	FIRE ALARM CEILING MOUNTED STROBE ON 4S DEEP BOX (#CD DENOTES CANDELA)	#CD	CEILING	COOPER/WHEELOCK LSTC3	7125-0785:0169
2	FIRE ALARM WALL MOUNTED STROBE ON 4S DEEP BOX (#CD DENOTES CANDELA)	#CD	+80" - 96" AFF TO BOTTOM OF LENS	COOPER/WHEELOCK LST	7125-0785:0169
1	FIRE ALARM SPRINKLER SYSTEM WATERFLOW SWITCH		FIELD VERIFY	SYSTEM SENSOR WFD SERIES	7770-1653:0145
2	FIRE ALARM SPRINKLER SYSTEM TAMPER SWITCH		FIELD VERIFY	SYSTEM SENSOR PIBV2	7270-1653:0118
1	120VAC FIRE ALARM SPRINKLER BELL		90" A.F.F SURFACE MOUNT WP BOX	POTTER ELECTRIC PBA12010	7135-0328:0119

FIRE ALARM GENERAL NOTES

1. THE FIRE ALARM SYSTEM SHALL CONFORM TO ARTICLE 760 OF THE CALIFORNIA ELECTRICAL CODE.

2. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESCENCE OF THE AUTHORITY HAVING JURISDICTION (FIRE MARSHAL). THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TEST EQUIPMENT (e.g. DIGITAL AMMETER, DECIBEL METER) AND VERIFY THAT THE GROUND FAULT DETECTION FOR THE FIRE ALARM SYSTEM IS OPERATIONAL DURING TESTING AND REMAINS SO ONCE THE SYSTEM IS APPROVED. UPON APPROVAL OF THE FIRE ALARM SYSTEM, THE CONTRACTOR SHALL PROVIDE THE OWNER WITH COMPLETE SET OF OPERATING INSTRUCTIONS FOR THE SYSTEM.

3. A MINIMUM OF 48 HOURS NOTICE SHALL BE REQUIRED PRIOR TO ANY INSPECTION AND/OR TEST.

4. AN APPROVED, STAMPED SET OF THE FIRE ALARM PLANS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION. ANY DEVIATIONS FROM THE APPROVED PLANS, INCLUDING SUBSTITUTION OF DEVICES, SHALL BE APPROVED BY THE INSPECTOR OF RECORD.

5. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF THE INSPECTOR OF RECORD.

6. ALL DEVICES OF THE FIRE ALARM SYSTEM SHALL BE APPROVED AND LISTED BY THE CALIFORNIA STATE FIRE MARSHAL.

7. A "RECORD OF COMPLETION" SHALL BE PREPARED BY THE INSTALLER AND GIVEN TO THE FIRE MARSHAL UPON COMPLETION OF THE INSTALLATION.

8. ALL TERMINAL CABINETS AND JUNCTION BOXES SHALL BE CLEARLY MARKED THAT THE ENCLOSURE IS PART OF THE FIRE ALARM SYSTEM.

9. THE CONTRACTOR SHALL LOCATE ALL SMOKE DETECTION DEVICES A MINIMUM OF 36" FROM ANY MECHANICAL REGISTERS.

10. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE. WIRE LENGTHS USED TO CALCULATE VOLTAGE DROPS REPRESENT ESTIMATES BASED ON MEASUREMENTS OF SCALED FLOOR PLAN DRAWINGS. CONTRACTOR TO ROUTE CONDUIT AS FIELD CONDITIONS REQUIRE. CONTRACTOR TO INSTALL ALL DEVICES ACCORDING TO MANUFACTURERS INSTRUCTIONS AND IN COMPLIANCE WITH ALL APPLICABLE CODES.

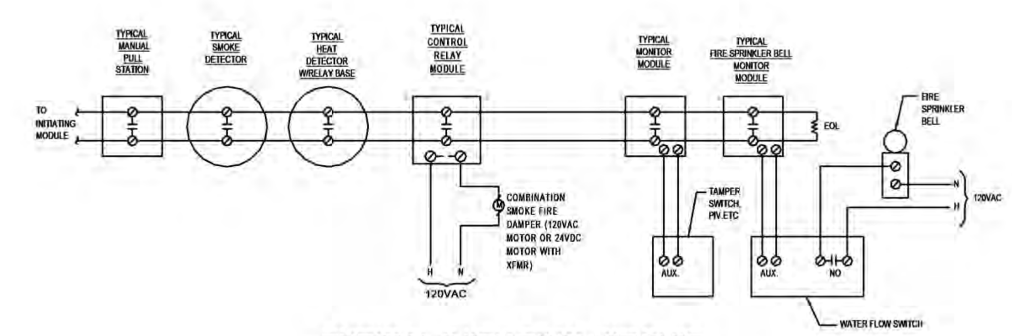
11. CONTRACTOR SHALL VERIFY LOCATION OF POST INDICATOR VALVES (PIV's) AND/OR OUTSIDE STEM & YOKE (OS&Y) VALVES INSTALLED ON FIRE SPRINKLER SERVICE. CONTRACTOR SHALL PROVIDE AND INSTALL TAMPER SWITCH(ES) AT EACH OF THESE VALVES AND INTERCONNECT TAMPER SWITCH(ES) TO THE FIRE ALARM CONTROL PANEL (FACP).

12. ALL WIRING TO BE IN CONDUIT. ALL CONDUIT IS TO BE A 3/4" MINIMUM. IF FLEX CONDUIT IS USED TO TRANSITION DOWN TO CEILING DEVICE THE FLEX CAN BE NO LONGER THAN 5 FEET.

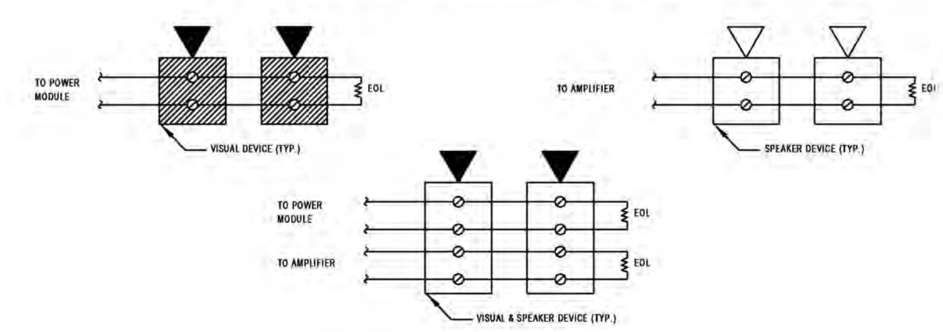
13. CONTRACTOR SHALL EXTEND AND MAKE ALL FINAL CONNECTIONS TO EXISTING FIRE ALARM AND CENTRAL MONITORING FOR A COMPLETE AND FULLY CAMPUS WIDE FIRE ALARM NETWORK SYSTEM.

14. VISIT THE SITE PRIOR TO BID AND INVESTIGATE THE EXISTING FIRE ALARM SYSTEM EQUIPMENT. COORDINATE WITH THE EXISTING SYSTEMS MANUFACTURERS FOR ALL REQUIRED EQUIPMENT MODIFICATIONS, CONDUITS, WIRING AND UPGRADING REQUIRED TO EXTEND/NETWORK THE EXISTING SYSTEM TO THE NEW BUILDINGS. INCLUDE ALL COSTS IN BID. ALL NEW COMPONENTS SHALL BE COMPATIBLE WITH THE EXISTING SYSTEM.

15. FIRE ALARM SYSTEM SPLICES ARE NOT PERMITTED IN UNDERGROUND PULLBOXES.



TYPICAL INITIATING CIRCUIT



TYPICAL NOTIFICATION CIRCUIT

FIRE ALARM WIRING DIAGRAM

FIRE ALARM SYSTEM NOTES

FIRE ALARM COMPLETE PLAN SUBMITTAL

1.0 PROJECT INFORMATION

A. OCCUPANCY GROUP

REFER TO ARCHITECTURAL DRAWINGS.

B. CONSTRUCTION TYPE

REFER TO ARCHITECTURAL DRAWINGS.

FIRE ALARM NOTE:
FIRE ALARM SUBMITTAL IS A COMPLETE PLAN SUBMITTAL IN ACCORDANCE WITH CFC-901.1 AND 907.1.1.

C. PENETRATIONS OF FIRE RATED WALLS SHALL BE PROTECTED IN ACCORDANCE WITH CALIFORNIA BUILDING CODE, PART 2, CHAPTER 7, TITLE 24. REFER TO THE ARCHITECTURAL PLANS FOR FIRE-RATE CORRIDOR(S), OCCUPANCY SEPARATION(S) AND AREA SEPARATION WALL(S).

D. UPON COMPLETION OF SYSTEM INSTALLATION, THE SYSTEM SHALL BE TESTED IN THE PRESENCE OF AND IN A MANNER ACCEPTABLE TO THE ENFORCING AGENCY.

E. PROVIDE A STATEMENT OF COMPLIANCE WHEN REQUESTING INSPECTION CFC 901.2.1

F. THE FIRE ALARM SYSTEM DESIGN FOR THIS PROJECT IS ADDRESSABLE AND FULLY AUTOMATIC.

2.0 APPLICABLE CODES AND STANDARDS

A. PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2017*

2016 CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.*

2016 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
(2015 INTERNATIONAL BUILDING CODE VOL. 1-2 AND 2016 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
(2014 NATIONAL ELECTRICAL CODE AND 2016 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.
(2015 IAPMO UNIFORM MECHANICAL CODE AND 2016 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
(2015 IAPMO UNIFORM PLUMBING CODE AND 2016 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA ENERGY CODE (CEC), PART6, TITLE 24 C.C.R.

2016 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 C.C.R.
(2015 INTERNATIONAL FIRE CODE AND 2016 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
(2015 INTERNATIONAL EXISTING BUILDING CODE AND 2016 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGreen), PART 11, TITLE 24 CCR

TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHALL REGULATIONS.

2013 ASME A17.1 SAFETY CODE FOR ELEVATORS AND ESCALATORS.

B. PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13	STANDARD FOR INSTALL OF SPRINKLER SYSTEMS (CA AMENDED)	2016 EDITION
NFPA 14	STANDARD FOR INSTALL OF STANDPIPE & HOSE SYSTEMS	2013 EDITION
NFPA 17	STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS	2013 EDITION
NFPA 17A	STANDARD FOR WET CHEMICAL SYSTEMS	2013 EDITION
NFPA 20	INSTALL OF STATIONARY PUMPS FOR FIRE PROTECTION	2016 EDITION
NFPA 22	STANDARD FORWATER TANKS FOR PRIVATE FIRE PROTECTION	2013 EDITION
NFPA 24	STANDARD FOR THE INSTALL OF PRIVATE FIRE MAINS AND THEIR APPURTENANCES	2016 EDITION
NFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED)	2016 EDITION
NFPA 80	STANDARD FOR FIRE DOORS & OTHER OPENING PROTECTIVES	2016 EDITION
NFPA 2001	STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	2015 EDITION
UL 300	STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT	2005 (R2010)
UL 464	AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES	2003 EDITION
UL 521	STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS	1999 EDITION
UL 1971	STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPARED	2002 EDITION
ICC 300	STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS	2012 EDITION

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2016 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.

SEE CALIFORNIA BUILDING CODE, CHAPTER 35, FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

*ALL PARTS OF THE 2016 CALIFORNIA BUILDING CODE BECOME EFFECTIVE JANUARY 1, 2017 EXCEPT THE EFFECTIVE DATE FOR THE USE OF THE 2016 BUILDING ENERGY EFFICIENCY STANDARDS (TITLE 24, PART 1 CHPATER 10) IS FEBRUARY 25, 2016 AND THE EFFECTIVE DATE FOR THE USE OF THE CALIFORNIA ADMINISTRATIVE CODE ((TITLE 24, PART 1, CHAPTER 4) IS JANUARY 20, 2016.

3.0 UPON RECEIPT OF THE CERTIFICATE OF COMPLIANCE, THE INSTALLER SHALL SUPPLY THE OWNER WITH A WRITTEN OPERATING, TESTING AND MAINTENANCE INSTRUCTIONS, POINT-TO-POINT AS BUILD DRAWINGS AND EQUIPMENT SPECIFICATIONS.

4.0 NFPA 72 CHAPTER 10,14 INSPECTION TESTING AND MAINTENANCE COMPLETE THE INSPECTION AND TESTING FORM IN ITS ENTIRETY SUBMIT A COPY TO THE DISTRICT, ARCHITECT AND DSA DIVISION OF FIRE AND LIFE SAFETY.

5.0 OCCUPANCY PROHIBITED TO ANY PORTION OF BUILDING UNTIL FIRE ALARM SYSTEM HAS BEEN TESTED AND APPROVED. CBC 901.5; CFC 901.5.1
RECORD DRAWINGS OF ALL INSPECTION, TEST SHALL BE MAINTAINED ON PREMISES MINIMUM THREE YEARS. CFC 901.6.2 (5 YEARS PER TITLE 14)
SMOKE DETECTORS TO UTILIZE CALIBRATED MANUFACTURE SENSITIVITY TEST INSTRUMENT. CFC 907.9.4

6.0 CONTRACTOR TO FIELD VERIFY AND PROVIDE DECIBEL METER FOR TESTING OF AMBIENT NOISE LEVELS (MINIMUM 15db ABOVE AMBIENT NOISE LEVELS REQUIRED - SEE NPFA 72 TABLE 14.4.3.2). INSTALL ADDITIONAL AUDIBLE DEVICE AS NEEDED TO ATTAIN REQUIRED NOISE LEVELS AND INTELLIGIBILITY IN ALL REQUIRED AREAS. PROVIDE UPDATED PLANS AND CALCULATIONS THROUGH THE "CHANGE ORDER" PROCESS WHEN INSTALLING ADDITIONAL DEVICES AND OR EQUIPMENT. INSPECTOR OF RECORD (IOR) TO WITNESS FINAL TEST OF THE SYSTEM. CONTRACTOR(S) TO PROVIDE FINAL TEST RESULTS AND PROVIDE THE "RECORD OF COMPLETION FORM" TO THE ARCHITECT OF RECORD, OWNER, DIVISION OF THE STATE ARCHITECT, INSPECTOR OF RECORD (IOR)AND LOCAL FIRE AUTHORITY (AHJ).

6.1 FIRE ALARM NOTIFICATION DEVICES WITHIN THE NOTIFICATION ZONE WILL BE SYNCHRONIZED IN ACCORDANCE WITH NFPA 72 18.5.5.7

6.2 CONTRACTOR SHALL PROVIDE 24 HOUR FIRE WATCH IN CASE EXISTING CAMPUS FIRE ALARM SYSTEM IS SHUTDOWN OR DURING THE DURATION OF THE CONSTRUCTION PHASE.(IF APPLICABLE TO THE PROJECT).

6.3 EXISTING FIRE ALARM SYSTEM SHALL REMAIN OPERATIONAL DURING THE BUILDING MODERNIZATION CONSTRUCTION UNTIL THE NEW FIRE ALARM SYSTEM IS INSTALLED AND FULLY OPERABLE. UPON COMPLETE FINAL TEST AND APPROVAL OF THE NEW SYSTEM, EXISTING SYSTEM AND ITS DEVCES SHALL BE DISCONNECTED AND REMOVED AS REQUIRED.(IF APPLICABLE TO THE PROJECT).

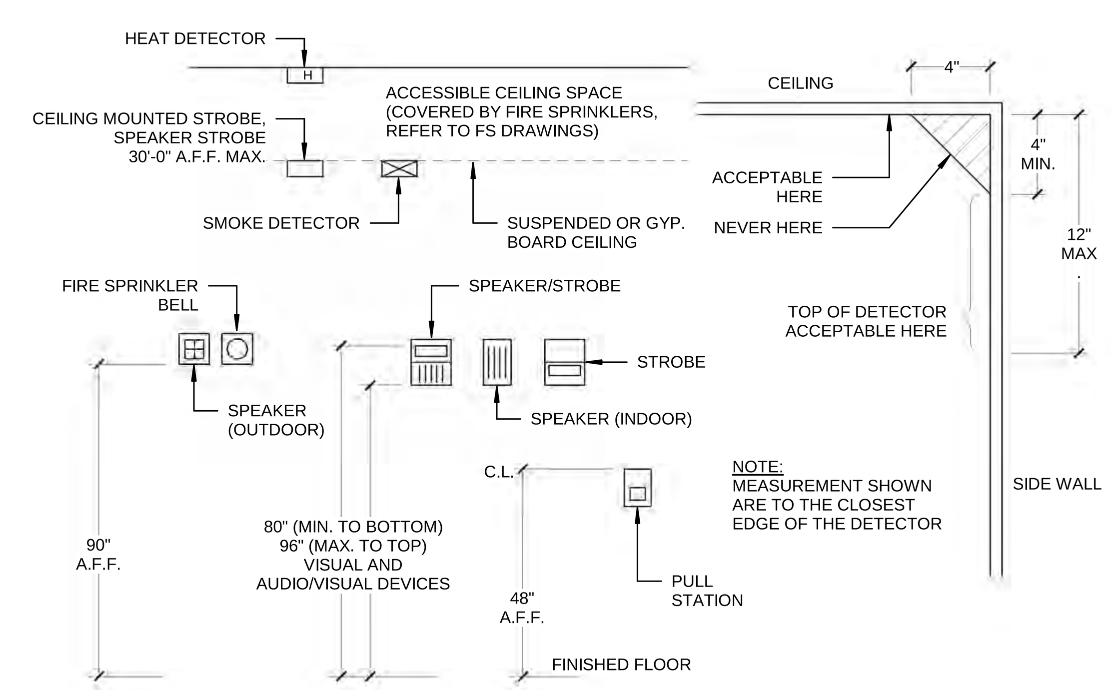
ACTION \ DEVICE	MANUAL PULL STATION	AREA SMOKE DETECTOR	AREA HEAT DETECTOR	SPRINKLER WATERFLOW SWITCH	SPRINKLER TAMPER SWITCH	SPRINKLER POST INDICATOR VALVE (PIV)	DOUBLE DETECTOR CHECK VALVE (DDCV)	CLASSROOM CARBON MONOXIDE DETECTOR	ELEVATOR MACHINE RM SMOKE DETECTOR	ELEVATOR LOBBY SMOKE DETECTOR	ELEVATOR MACHINE ROOM HEAT DETECTOR	GROUND FAULT	SHORT CIRCUIT	LOW BATTERY	FACP 120VAC POWER FAILURE	NOTES
ANNUNCIATE / SOUND ALARM SIGNAL AT FACP AND REMOTE ANNUNCIATOR	X	X	X	X				X	X	X	X					
ANNUNCIATE / SOUND SUPERVISORY SIGNAL CONDITION AT FACP AND REMOTE ANNUNCIATOR					X	X	X	X				X	X	X		
ANNUNCIATE / SOUND TROUBLE SIGNAL AT FACP AND REMOTE ANNUNCIATOR	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	[1]
ACTIVATE ALL AUDIBLE/VISUAL SIGNALS THROUGHOUT THE FACILITY ON GENERAL ALARM	X	X	X	X					X	X	X					1
TRANSMIT ALARM, TROUBLE OR SUPERVISORY TO UL LISTED 24HR CENTRAL MONITORING STATION	X	X	X	X	X	X	X		X	X	X	X	X	X	X	
SHUTDOWN AIR HANDLING EQUIPMENT		X							X	X	X					[2]
CLOSE RESPECTIVE SMOKE FIRE DAMPERS		X							X	X	X					[3]
ELEVATOR POWER SHUNT TRIP											X					
PRIMARY / ALT. ELEVATOR RECALL									X	X						[4]
SOUND SPRINKLER BELL				X												

NOTES:
[1] INDICATE TROUBLE ON WIRING FAULT OR DEVICE AS REQUIRED.
[2] SHUTDOWN ONLY AIR HANDLER EQUIPMENT IN THE BUILDING OR AREA WHERE ALARM CONDITION OCCURS.
[3] CLOSE ONLY SMOKE AND FIRE DAMPERS IN THE BUILDING OR AREA HERE ALARM CONDTION OCCURS.
[4] RECALL ONLY THE ELEVATORS IN THE BUILDING WHERE THE ALARM CONDITION HAS OCCURRED.
[5] IN MULTI-PURPOSE ROOMS, AUDITORIUMS AND SIMILAR AREAS EQUIPPED WITH LIGHTING CONTROLS, THE GENERAL HOUSE LIGHTING SHALL COME TO FULL BRIGHT IN THE EVENT OF A FIRE ALARM CONDITION.

1 PRE-RECORDED FIRE ALARM VOICE EVACUATION SIGNAL SHALL BE A FEMALE VOICE, AND SOUND OFF:
"MAY I HAVE YOUR ATTENTION PLEASE, MAY I HAVE YOUR ATTENTION PLEASE A FIRE HAS BEEN REPORTED IN THE BUILDING. PLEASE PROCEED TO THE NEAREST EXIT AND EXIT THE BUILDING".
MESSAGE SHALL REPEAT UNTIL MANUALLY DISABLED/SILENCED AT MAIN FIRE CONTROL PANEL OR ANNUNCIATOR PANEL.

**FIRE ALARM SYSTEM SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS THROUGH THE TELEPHONE LINES TO AN APPROVED MONITOR COMPANY IN ACCORDANCE WITH NFPA 72. THE MONITOR COMPANY SHALL BE LISTED AS EITHER UUFX (CENTRAL STATION) OR UUJS (REMOTE & PROPRIETARY) BY THE UNDERWRITERS LABORATORY INC.

SEQUENCE OF OPERATION



PULL STATION / HORN / STROBE ELEVATION

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tBP project number: 20987.00
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FIRE ALARM SCHEDULE, NOTES AND DETAILS

drawing no.:
EF-1

FIRE ALARM VOLTAGE DROP CALCULATIONS

VOLTAGE DROP CALCULATION

COOPER WHEELOCK DEVICES

DEVICE	DEVICE CURRENT (AMPS)	SIGNAL V1 QTY	CIRCUIT FPS1 CURR.	SIGNAL V2 QTY	CIRCUIT FPS1 CURR.	SIGNAL V3 QTY	CIRCUIT FPS1 CURR	SIGNAL SPARE QTY	CIRCUIT FPS1 CURR.	SIGNAL V5 QTY	CIRCUIT FPS2 CURR.	SIGNAL V6 QTY	CIRCUIT FPS2 CURR.	SIGNAL V7 QTY	CIRCUIT FPS2 CURR.	SIGNAL SPARE QTY	CIRCUIT FPS2 CURR	QTY TOTAL
Ceiling Strobes																		
15CD	0.041	9	0.369		0.000	2	0.082		0.000	5	0.205	1	0.041	3	0.123		0.000	**20**
30CD	0.058		0.000	1	0.058	3	0.174		0.000	1	0.058		0.000		0.000		0.000	**5**
Wall Strobes																		
75CD	0.150		0.000		0.000	2	0.300		0.000		0.000		0.000		0.000		0.000	**2**
Ceiling Speaker/Strobes																		
15CD	0.065	5	0.325		0.000	2	0.130		0.000	3	0.195	1	0.065	5	0.325		0.000	**16**
30CD	0.105	3	0.315		0.000		0.000		0.000	2	0.210	2	0.210		0.000		0.000	**7**
75CD	0.189	3	0.567		0.000	3	0.567		0.000	2	0.378	2	0.378	1	0.189		0.000	**11**
95CD	0.249		0.000		0.000		0.000		0.000	1	0.249	2	0.498	1	0.249		0.000	**4**
TOTAL CURRENT ON CIRCUIT		1.576	CURR. AMPS	0.058	CURR. AMPS	1.253	CURR. AMPS	0.000	CURR. AMPS	1.295	CURR. AMPS	1.192	CURR. AMPS	0.886	CURR. AMPS	0.000	CURR. AMPS	
TOTAL WIRE LENGTH		350	FT.	300	FT.	300	FT.	0	FT.	300	FT.	300	FT.	300	FT.	0	FT.	
% VOLTAGE DROP		**7.60**	%	**0.24**	%	**5.18**	%	**0.00**	%	**5.35**	%	**4.93**	%	**3.66**	%	**0.00**	%	
WIRE SIZE	# AWG	12	6530	12	6530	12	6530	12	6530	12	6530	12	6530	12	6530	12	6530	
CIRCUIT LOCATION		**1ST FLOOR**		**1ST FLOOR**		**1ST FLOOR**		X		**2ND FLOOR**		**2ND FLOOR**		**2ND FLOOR**		X		

Speaker

VOLTAGE DROP CALCULATION

DEVICE	DEVICE CURRENT (AMPS)	SIGNAL S1 QTY	FROM FAMP1 CURR.	SIGNAL S2 QTY	FROM FAMP1 CURR	SIGNAL S3 QTY	FROM FAMP1 CURR.	SIGNAL SPARE QTY	FROM AMP-1 CURR	SIGNAL S5 QTY	FROM FAMP2 CURR.	SIGNAL S6 QTY	FROM FAMP2 CURR.	SIGNAL S7 QTY	FROM FAMP2 CURR.	SIGNAL SPARE QTY	FROM FAMP2 CURR.	QTY TOTAL
Speakers																		
1/2 Watt Speaker (70.7v)	0.007	11	0.077	9	0.063	5	0.035		0.000	8	0.056	7	0.049	7	0.049		0.000	**47**
1 Watt Speaker (70.7v)	0.014	4	0.056	3	0.042	5	0.070		0.000		0.000		0.000		0.000		0.000	**12**
TOTAL CURRENT ON CIRCUIT		0.133	CURR. AMPS	0.105	CURR. AMPS	0.105	CURR. AMPS	0.000	CURR. AMPS	0.056	CURR. AMPS	0.049	CURR. AMPS	0.049	CURR. AMPS	0.000	CURR. AMPS	
TOTAL WIRE LENGTH		300	FT.	300	FT.	300	FT.	0	FT.	300	FT.	300	FT.	300	FT.	450	FT.	
% VOLTAGE DROP		**1.39**	%	**1.10**	%	**1.10**	%	**0.00**	%	**0.59**	%	**0.51**	%	**0.51**	%	**0.00**	%	
WIRE SIZE	# AWG	16	2580	16	2580	16	2580	16	2580	16	2580	16	2580	16	2580	16	2580	
CIRCUIT LOCATION		**1ST FLOOR**		**1ST FLOOR**		**1ST FLOOR**		X		**2ND FLOOR**		**2ND FLOOR**		**2ND FLOOR**		X		

FIRE ALARM BATTERY CALCULATIONS

SIMPLEX 4100ES FIRE ALARM BATTERY CALCULATIONS

QTY	DEVICE	STAND BY CURRENT	ALARM CURRENT
1	4100ES-S1 BASIC PANEL	0.3730	0.4700
1	4603-9101 LCD ANNUNCIATOR	0.1100	0.0500
1	4100-1288 64/64 LED SWITCH CONTROLLER	0.0200	0.2600
2	4100-1327 50 WATT AMPLIFIER	0.4400	9.4000
1	4100-5111 SPS POWER SUPPLY	0.1750	0.4750
92	SMOKE DETECTOR	0.2760	2.5760
1	HEAT DETECTOR	0.0030	0.0065
1	MANUAL PULL STATION	0.0003	0.0003
10	MONITOR MODULE	0.0038	0.0065
10	CONTROL MODULE	0.0038	0.0650
	TOTAL CURRENT DRAW	1.405	13.309

TOTAL STAND-BY CURRENT X 24 HOURS = 1.405 X 24 = 33.715 A-HR

TOTAL ALARM CURRENT X 15 MINUTES = 13.31 X 0.250 = 3.327 A-HR

TOTAL MINIMUM AMP HOURS OF BATTERIES = 37.043A-HR

20% SAFETY DERATING FACTOR = 44.451A-HR

NOTES:
1. BATTERY CALCULATION SHALL BE BASED ON 24 HOURS OF STAND BY AND 10 MINUTES OF ALARM CURRENT
2. PROVIDE MINIMUM OF 50 A-HOURS STANDBY BATTERY POWER. ADD EXTERNAL BATTERY CABINET IF REQUIRED.

4009-9201 REMOTE POWER SUPPLY BATTERY CALCULATIONS - "FPS1"

QTY	DEVICE	STAND BY CURRENT	ALARM CURRENT
1	MAIN CIRCUIT BOARD	0.085	0.185
1	NAC CKT. V1	0.000	1.046
1	NAC. CKT. V2	0.000	0.947
1	NAC. CKT. V3	0.000	0.767
0	NAC. CKT. SPARE	0.000	0.000
	TOTAL CURRENTS	0.085	2.945

TOTAL STAND-BY CURRENT X 24 HOURS = 0.085 X 24 = 2.040 A-HR

TOTAL ALARM CURRENT X 15 MINUTES = 2.95 X 0.250 = 0.736 A-HR

TOTAL MINIMUM AMP HOURS OF BATTERIES = 2.776A-HR

ADDITIONAL 20% DERATING SAFETY FACTOR = **3.332A-HR**

NOTES:
1. BATTERY CALCULATION SHALL BE BASED ON 24 HOURS OF STAND BY AND 15 MINUTES OF ALARM CURRENT
2. PROVIDE MINIMUM OF 7 A-HOURS ADDITIONAL STANDBY BATTERY POWER.

4009-9201 REMOTE POWER SUPPLY BATTERY CALCULATIONS - "FPS2"

QTY	DEVICE	STAND BY CURRENT	ALARM CURRENT
1	MAIN CIRCUIT BOARD	0.085	0.185
1	NAC CKT. V4	0.000	0.981
1	NAC. CKT. V5	0.000	0.882
1	NAC. CKT. V6	0.000	0.790
0	NAC. CKT. SPARE	0.000	0.000
	TOTAL CURRENTS	0.085	2.838

TOTAL STAND-BY CURRENT X 24 HOURS = 0.085 X 24 = 2.040 A-HR

TOTAL ALARM CURRENT X 15 MINUTES = 2.84 X 0.250 = 0.710 A-HR

TOTAL MINIMUM AMP HOURS OF BATTERIES = 2.750A-HR

ADDITIONAL 20% DERATING SAFETY FACTOR = **3.299A-HR**

NOTES:
1. BATTERY CALCULATION SHALL BE BASED ON 24 HOURS OF STAND BY AND 15 MINUTES OF ALARM CURRENT
2. PROVIDE MINIMUM OF 7 A-HOURS ADDITIONAL STANDBY BATTERY POWER.

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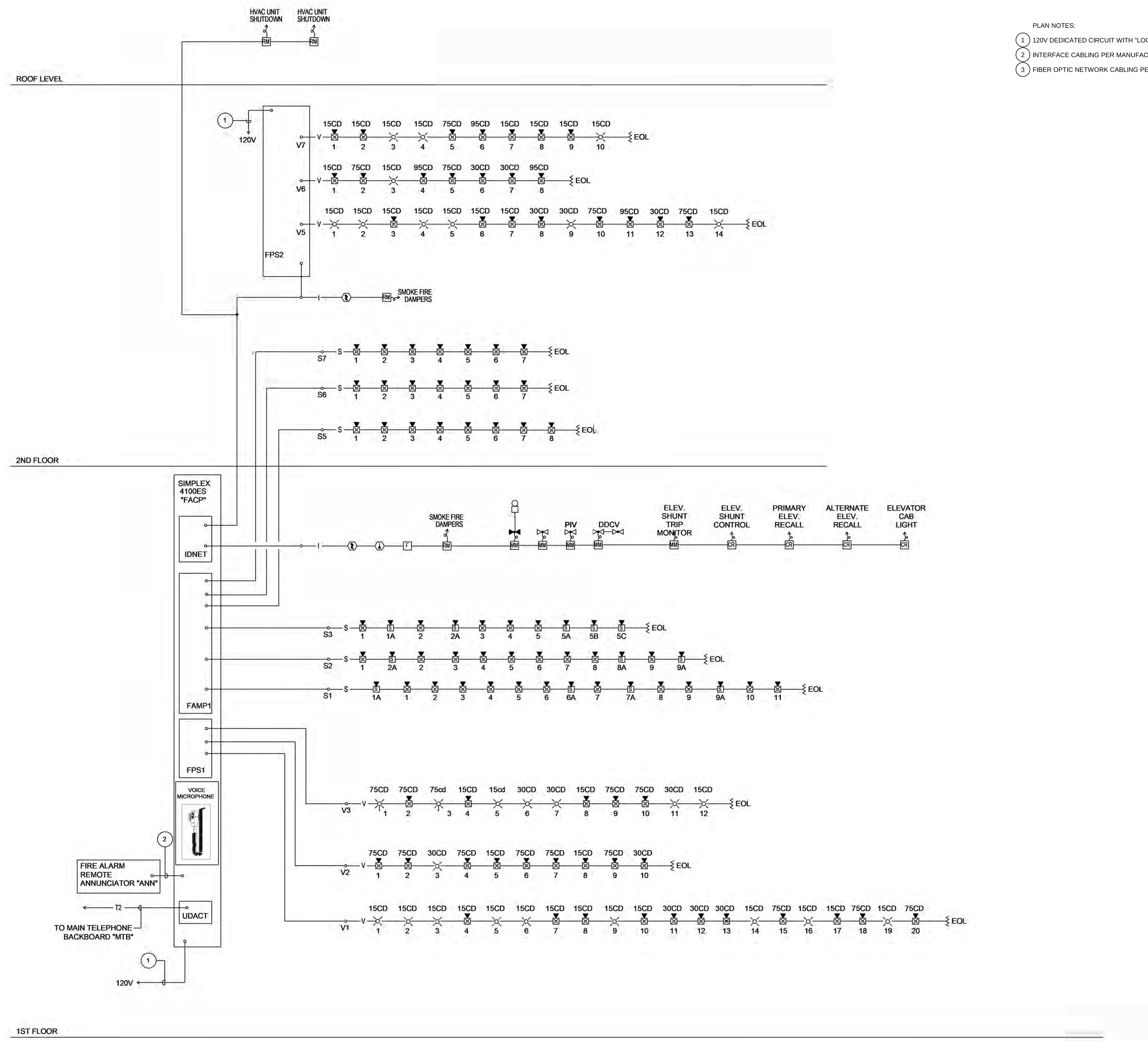
drawing title:
FIRE ALARM CALCULATIONS

drawing no.:
EF-2



PLAN NOTES:

1. 120V DEDICATED CIRCUIT WITH "LOCK-ON" DEVICE.
2. INTERFACE CABLING PER MANUFACTURER'S REQUIREMENTS.
3. FIBER OPTIC NETWORK CABLING PER MANUFACTURER'S REQUIREMENTS.

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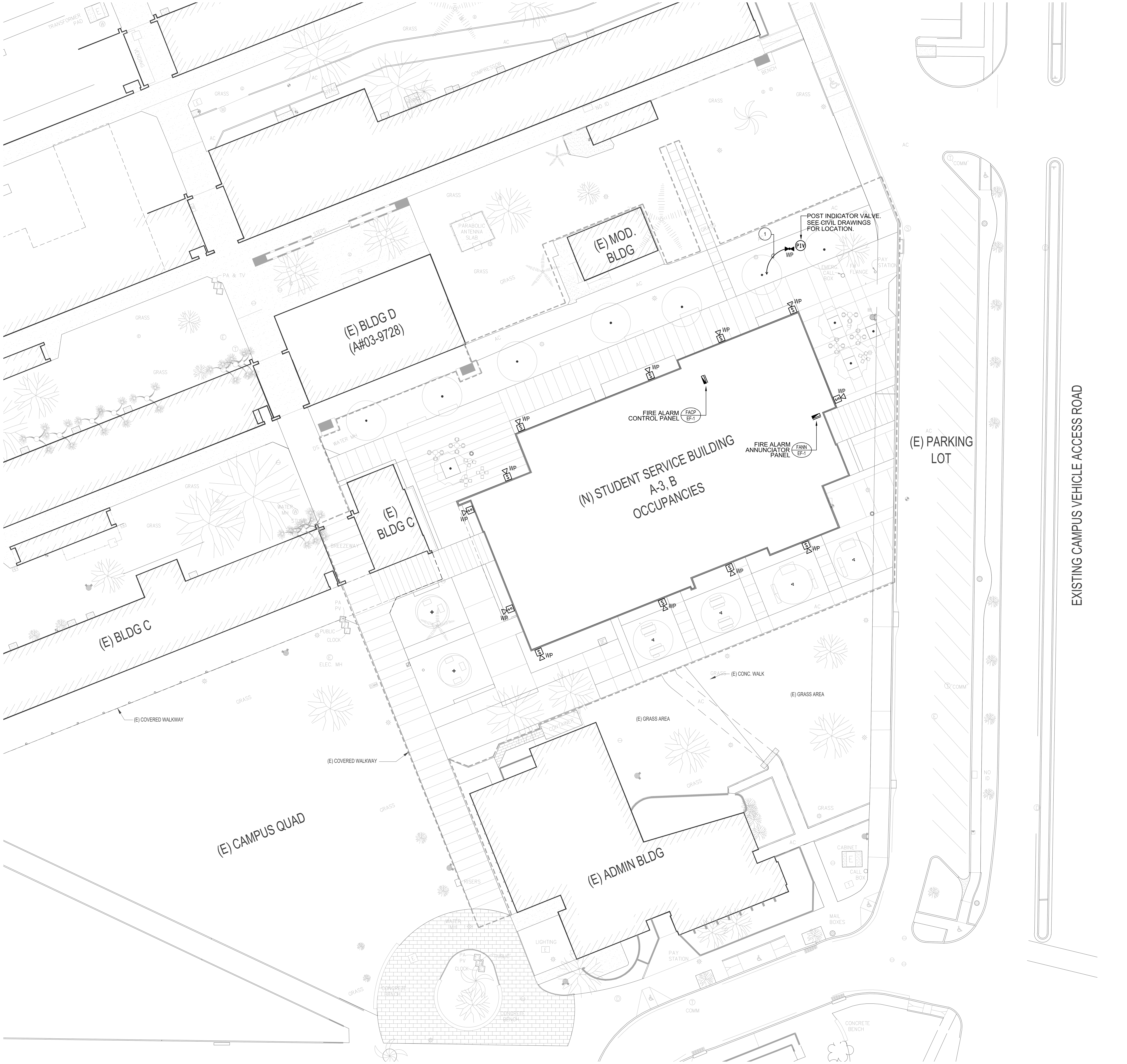
drawing title:
FIRE ALARM RISER DIAGRAM

drawing no.:
EF-3

KEY NOTES

1. PROVIDE 2#16 THWN IN 3/4" C. TO FIRE RISER ROOM.



ENLARGED SITE FIRE ALARM PLAN

SCALE: 1" = 20'-0"

0 5 10 20 40

NORTH

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-119686 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/14/2019

DIVISION OF THE STATE ARCHITECT
335 SOUTH GRAND AVENUE, SUITE 2100
LOS ANGELES, CA 90071
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agency

tBP architecture planning interiors

tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895

architect

FBA Engineering
Consulting Electrical Engineers

consultant

COMPTON COLLEGE STUDENT SERVICES BLDG.

COMPTON COMMUNITY COLLEGE DISTRICT
1111 E. ARTESIA BLVD.
COMPTON, CA 90221

owner

tBP project number : 20987.00

file name:

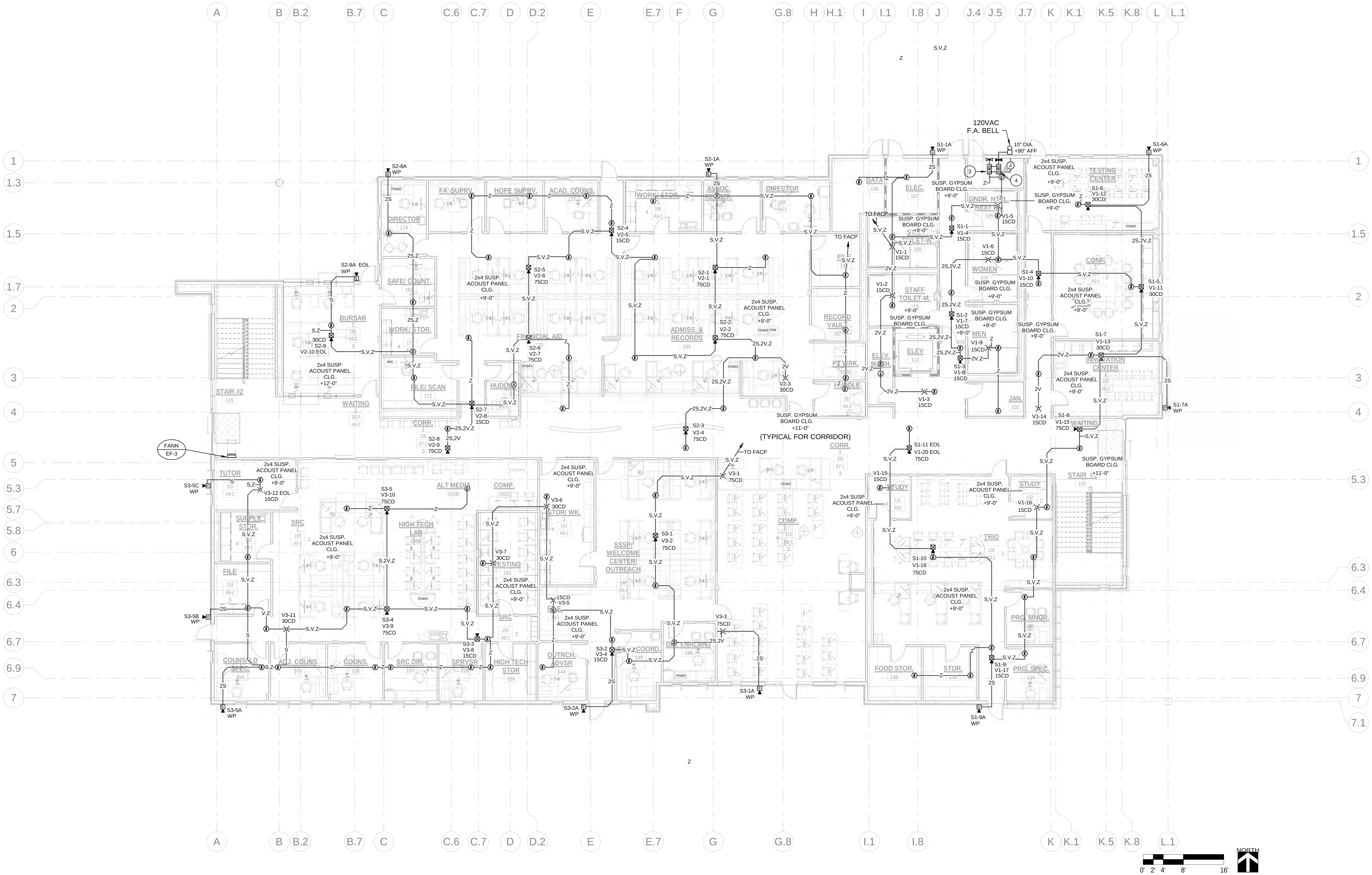
drawn by: FBA checked by: RR

date: 9.03.2019

Rev:	date:	description:

drawing title:
ENLARGED SITE FIRE ALARM PLAN

drawing no.:
EF-4



1ST FLOOR FIRE ALARM PLAN 1

SCALE 1/8" = 1'-0"

KEY NOTES

PLAN NOTES:

1. ALL INTERIOR SPEAKER TO BE TAPPED @ 1/2 WATT.
2. ALL EXTERIOR SPEAKER TO BE TAPPED @ 1 WATT.
3. MONITOR MODULE FOR SITE PIV.
4. MONITOR MODULE FOR DOUBLE DETECTOR CHECK VALVE. VERIFY LOCATION WITH SPRINKLER PLANS.

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FBA Job Number: 212.220

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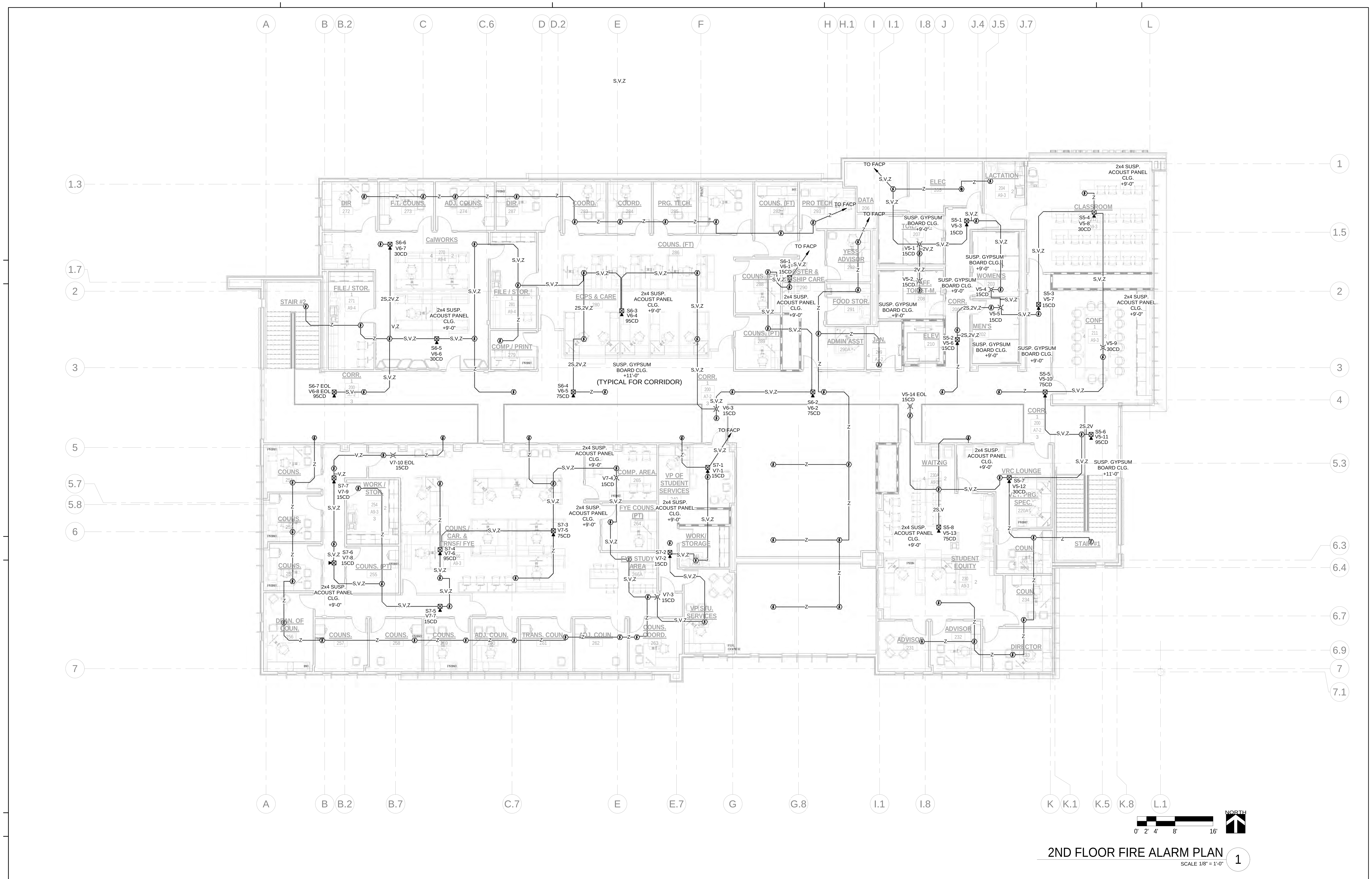
drawing title:
1ST FLOOR FIRE ALARM PLAN

drawing no.:
EF-5



2ND FLOOR FIRE ALARM PLAN

SCALE 1/8" = 1'-0"

KEY NOTES

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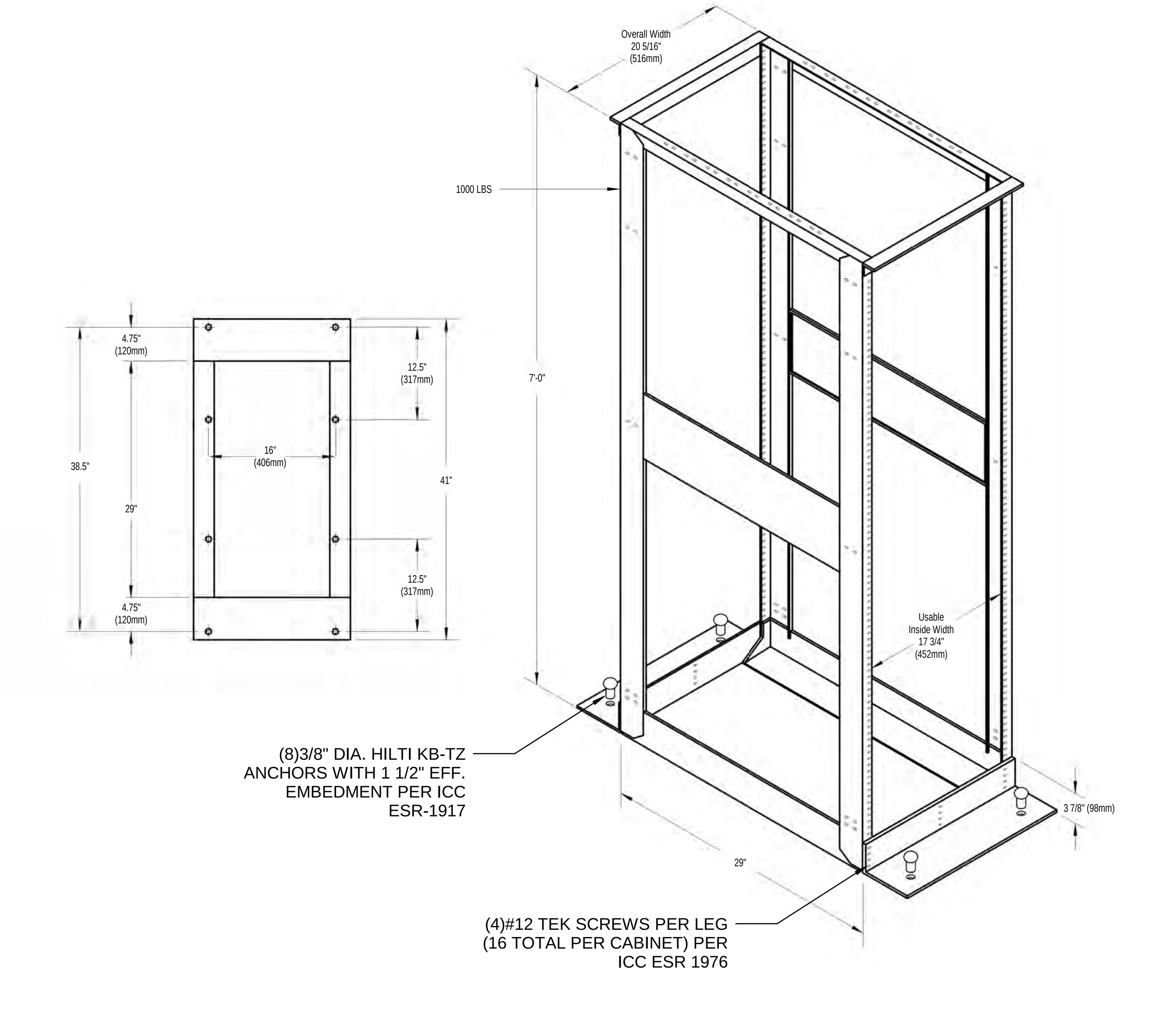
rev:	date:	description:

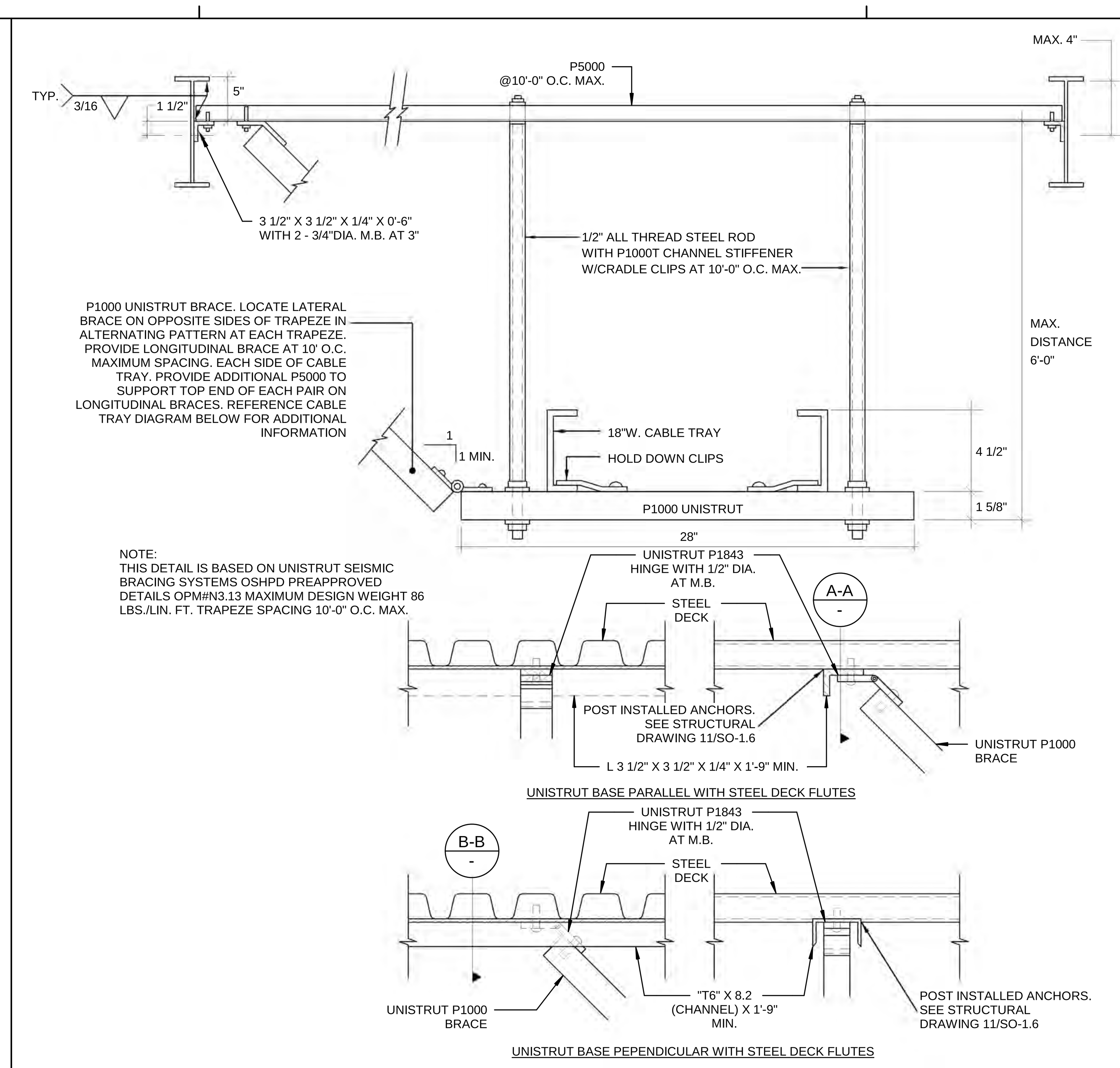
drawing title:
2ND FLOOR FIRE ALARM PLAN

drawing no.:
EF-6



4 - POST RACK ANCHORAGE DETAIL

SCALE N.T.S. | 6

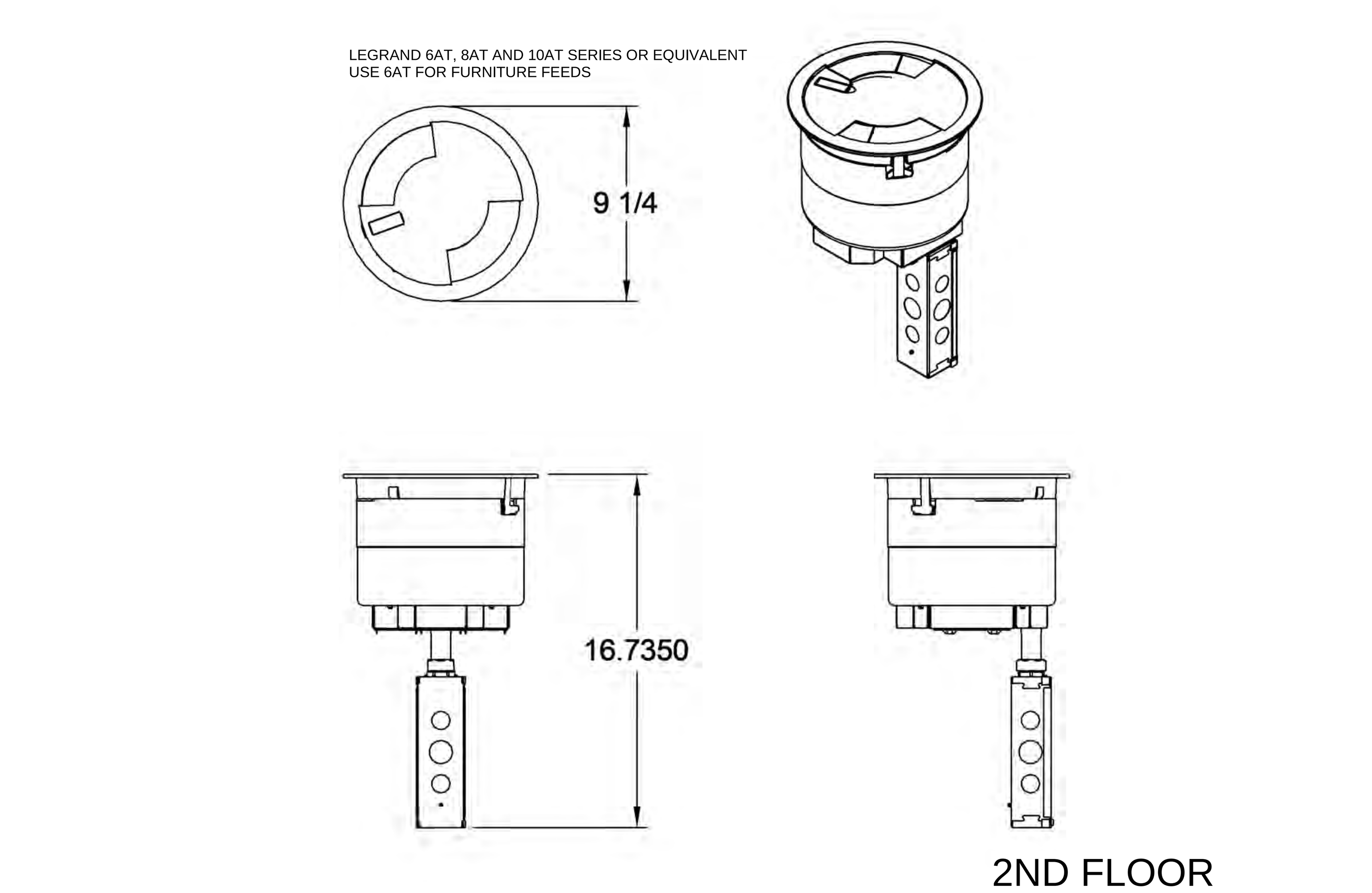


CABLE TRAY ANCHORAGE DETAIL

SCALE N.T.S. | 3

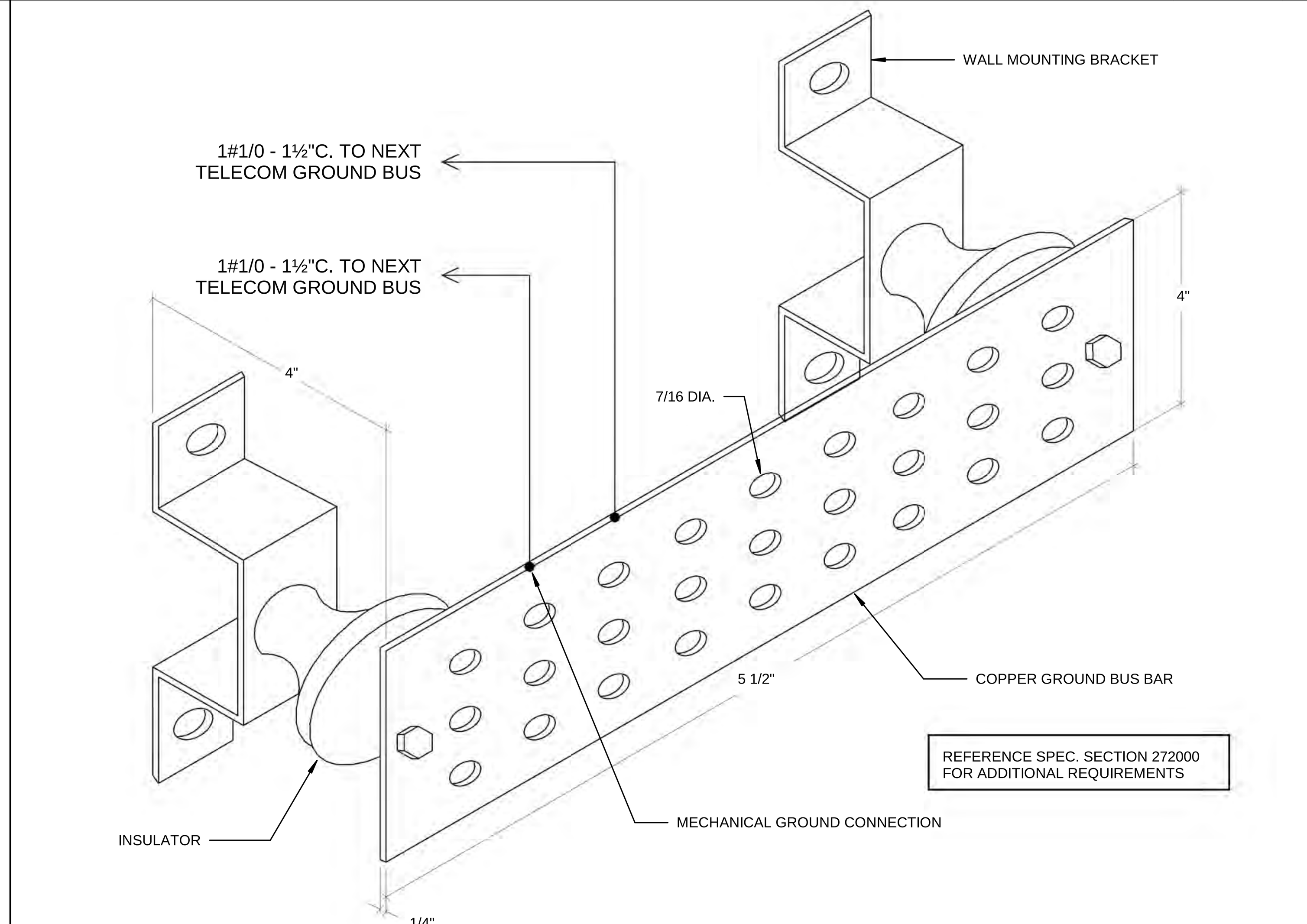
PERFORMANCE NOTES

1. REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR CASEWORK LOCATIONS AND INSTALL ALL OUTLETS IN MOUNTING HEIGHTS AND LOCATIONS AS DIRECTED BY THE ARCHITECT. VERIFY ALL MOUNTING HEIGHTS AND LOCATIONS PRIOR TO ROUGH-IN. CONTRACTOR SHALL INCLUDE ALL COSTS IN BID TO COMPLY WITH THIS PROVISION.



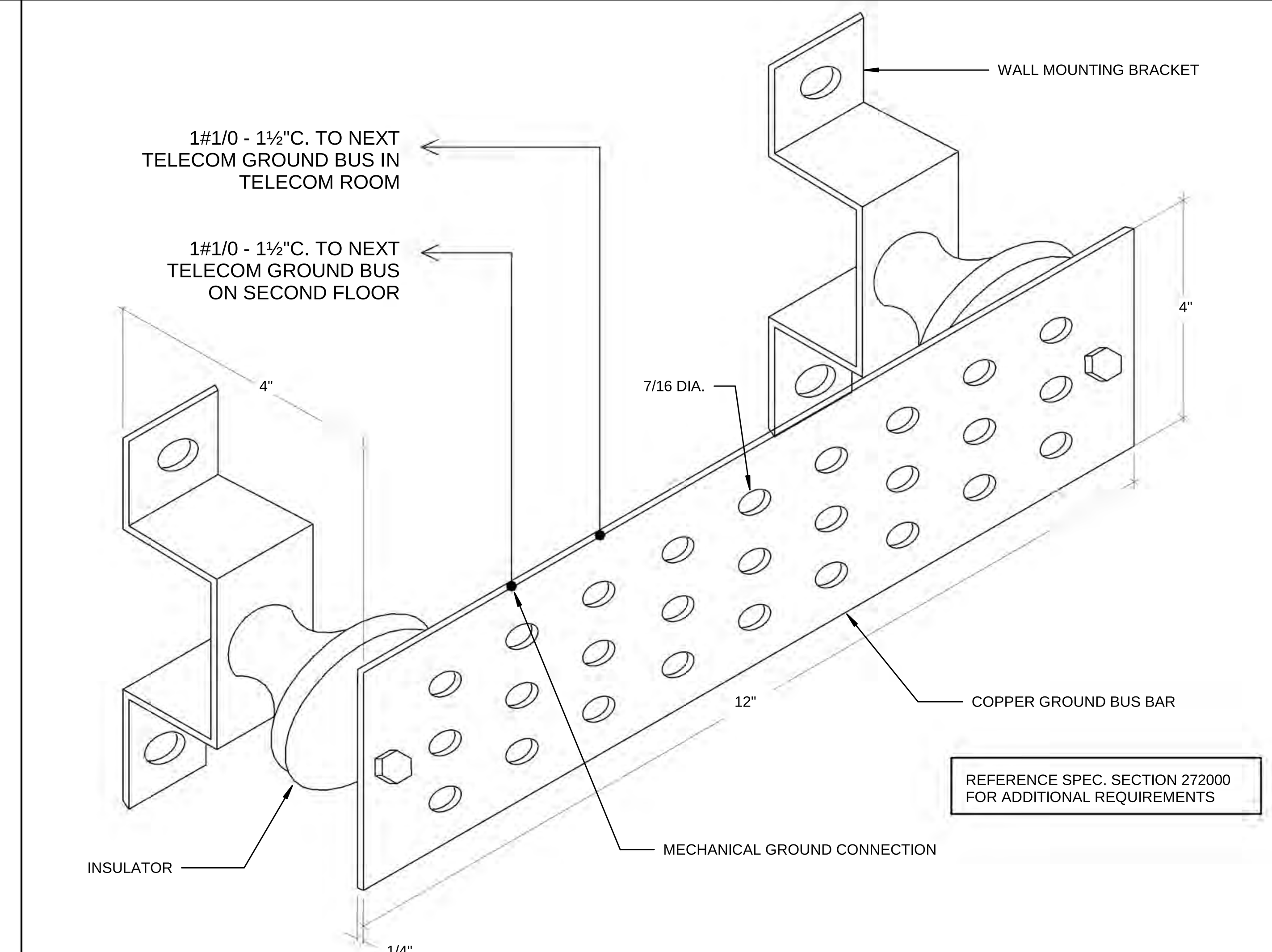
POKE-THRU DETAIL

SCALE N.T.S. | 5



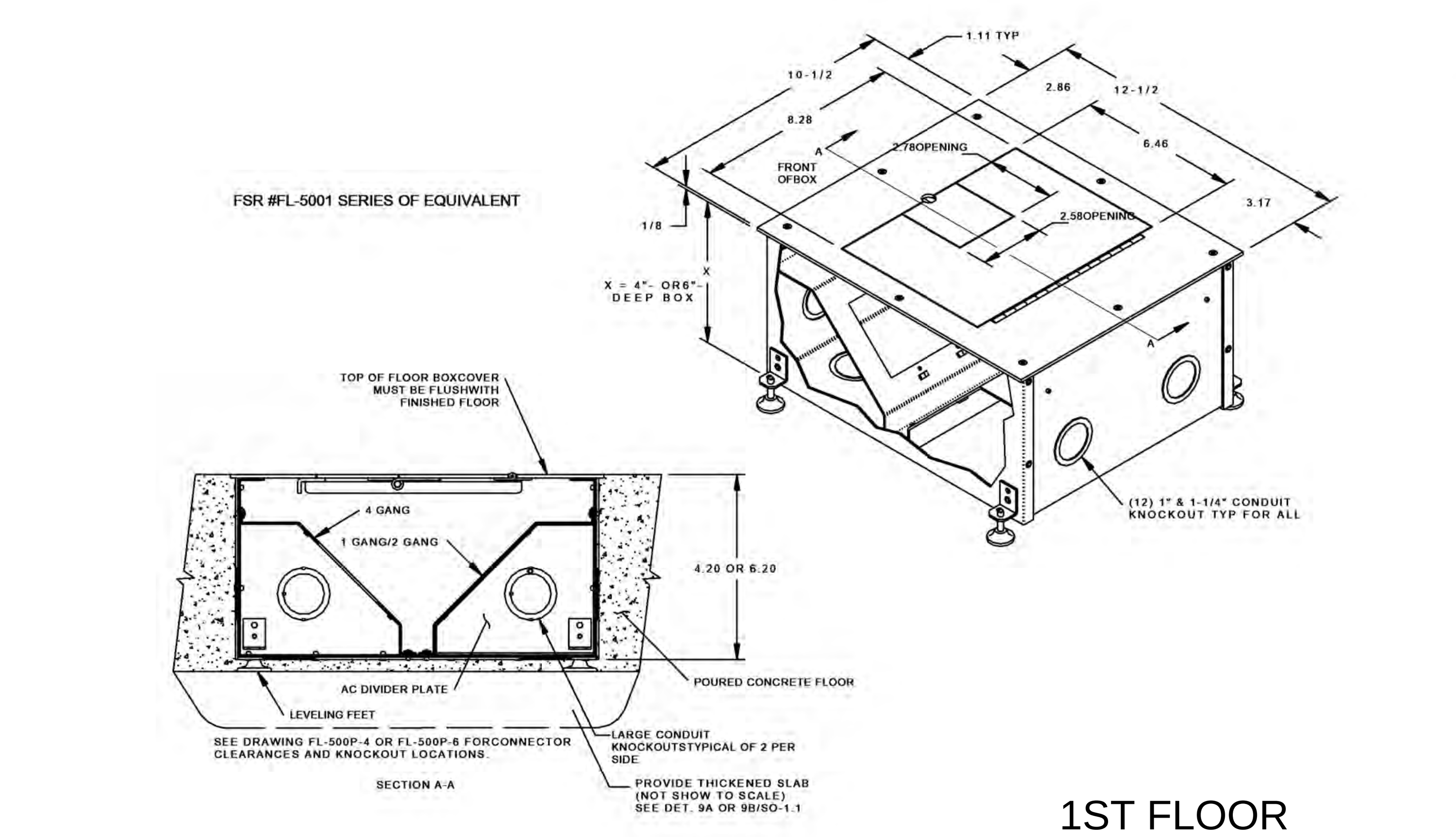
TECHNICAL GROUND BUS - ALL IDF'S

SCALE N.T.S. | 2



TECHNICAL GROUND BUS - BDF

SCALE N.T.S. | 1



FLOOR BOX DETAIL

SCALE N.T.S. | 4

Symbol	Description
TV	TELEVISION/COAX SYSTEM - 1"C. WITH COAX CABLES AS SPECIFIED.
M1	MICROPHONE SYSTEM - 3/4"C. WITH CABLING AS SPECIFIED. M2 - 1"C. WITH CABLING AS SPECIFIED. M3 - 1 1/4"C. WITH CABLING AS SPECIFIED. M4 - (2) 1"C. WITH CABLING AS SPECIFIED.
ID	INTRUSION DETECTION SYSTEM - 3/4"C., WITH INTRUSION DETECTION SYSTEM CABLING AS SPECIFIED.
1V	TELEPHONE/VOICE SYSTEM - 3/4"C. WITH ONE (1) TELEPHONE SYSTEM CABLE AS SPECIFIED: 2V - 1"C. WITH TWO (2) TELEPHONE SYSTEM CABLES AS SPECIFIED. 3V - 1 1/4"C. WITH THREE (3) TELEPHONE SYSTEM CABLES AS SPECIFIED. 4V - 1 1/4"C. WITH FOUR (4) TELEPHONE SYSTEM CABLES AS SPECIFIED.
P	PUBLIC ADDRESS SYSTEM - 3/4"C., WITH PA SYSTEM CABLING AS SPECIFIED.
1D	COMPUTER/DATA PROCESSING SYSTEM - 1"C., WITH ONE (1) DATA NETWORK CABLE AS SPECIFIED. 2D - 1"C. WITH TWO (2) DATA NETWORK CABLES AS SPECIFIED. 3D - 1 1/4"C. WITH THREE (3) DATA NETWORK CABLES AS SPECIFIED. 4D - 1 1/4"C. WITH FOUR (4) DATA NETWORK CABLES AS SPECIFIED.
2D AP	COMPUTER/DATA OUTLET, WITH TWO (2) OUTLET CONNECTORS, ON FLUSH CEILING MOUNTED OUTLET BOX FOR WIRELESS ACCESS POINT. PROVIDE OUTLET BOX, DATA JACKS AND TWO (2) CAT6A DATA NETWORKS CABLES AS SPECIFIED FROM THE OUTLET TO THE RESPECTIVE IDF/MDF. PROVIDE 15'-0" ADDITIONAL SLACK CABLE COILED ABOVE CEILING FOR POTENTIAL ADJUSTMENT OF WIRELESS ACCESS POINT LOCATION.
2D	COMPUTER/DATA OUTLET, WITH TWO (2) OUTLET CONNECTORS, ON FLUSH WALL MOUNTED OUTLET BOX +18". PROVIDE OUTLET BOX, DATA JACKS AND 1" CONDUIT TO ACCESSIBLE CEILING SPACE UNLESS NOTED OTHERWISE. PROVIDE TWO (2) CAT6E DATA NETWORK CABLES AS SPECIFIED FROM THE OUTLET TO THE RESPECTIVE IDF/MDF. "C" DESIGNATION INDICATES MOUNT OUTLET +6" ABOVE THE COUNTER SPLASH.
1D	COMPUTER/DATA OUTLET, WITH A SINGLE OUTLET CONNECTOR, ON FLUSH WALL MOUNTED OUTLET BOX +18". PROVIDE OUTLET BOX, DATA JACKS AND 1" CONDUIT TO ACCESSIBLE CEILING SPACE UNLESS NOTED OTHERWISE. PROVIDE ONE(1) CAT6E DATA NETWORK CABLES AS SPECIFIED FROM THE OUTLET TO THE RESPECTIVE IDF/MDF. "W" INDICATES WALL MOUNT AT +45" FOR VOICE. "C" DESIGNATION INDICATES MOUNT OUTLET +6" ABOVE THE COUNTER SPLASH. "P" DESIGNATION INDICATES AT PROJECTOR. "S" DESIGNATON INDICATES FOR SECURITY.
2V	VOICE OUTLET, WITH A TWO (2) OUTLET CONNECTORS, ON FLUSH WALL MOUNTED OUTLET BOX +18". PROVIDE OUTLET BOX, VOICE JACKS AND 1" CONDUIT TO ACCESSIBLE CEILING SPACE UNLESS NOTED OTHERWISE. PROVIDE TWO(2) CAT6E DATA NETWORK CABLES AS SPECIFIED FROM THE OUTLET TO THE RESPECTIVE IDF/MDF. "W" INDICATES WALL MOUNT AT +45" FOR VOICE, PROVIDE STAINLESS STEEL WALL PLATE WITH HANGER. "C" DESIGNATION INDICATES MOUNT OUTLET +6" ABOVE THE COUNTER SPLASH. "P" DESIGNATION INDICATES AT PROJECTOR. "S" DESIGNATION INDICATES FOR SECURITY.
"E"	DESIGNATION INDICATES DEDICATED TELEPHONE LINES FOR ELEVATOR.
M	INTERCOM MICROPHONE ON FLUSH CEILING MOUNTED OUTLET BOX.
S	AUDIO ENHANCEMENT SPEAKER IN FLUSH CEILING MOUNTED BACKBOX.
	12.5" DIA. ANALOG SELF CORRECTING 120V. OPERATED CLOCK, +90" A.F.F. REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS.
+45"	MOUNTING HEIGHT TO CENTER LINE OF DEVICE FROM FINISH FLOOR OR EXTERIOR GRADE
1	PLAN NOTE CALLOUT. REFER TO CORRESPONDING NOTE ON DRAWING WHERE CALLOUT OCCURS.
	WEATHERPROOF EXTERIOR LONG THROW PUBLIC ADDRESS HORN SPEAKER, WALL MOUNTED.
AV	AUDIO/VIDEO CONNECTOR PLATE, ON FLUSH WALL MOUNTED OUTLET BOX. PROVIDE OUTLET BOX AND 1 1/2"C., CONDUIT CONCEALED IN WALL TO THE ACCESSIBLE CEILING SPACE UNLESS NOTED OTHERWISE. PROVIDE HDMI CABLE FROM THE INSTRUCTOR'S DESK TO THE SHORT THROW PROJECTOR OR LCD DISPLAY OUTLET LOCATED AT THE TEACHING WALL. MOUNT AV OUTLET AT INSTRUCTOR'S DESK AT +18". MOUNT AV OUTLET AT PROJECTOR ON DISPLAY AT + 70".
C AV	AUDIO/VIDEO CONTROL PANEL, ON FLUSH IN WALL MOUNTED OUTLET BOX, +45"A.F.F. LOCATED AT INSTRUCTOR'S DESK. PROVIDE CONTROL PANEL, OUTLET BOX AND 1" CONDUIT CONCEALED IN WALL TO THE AV CONNECTOR PLATE. AT +18"A.F.F. PROVIDE AV CABLING BETWEEN AV CONTROL PANEL AND AV CONNECTOR PLATE IN ACCORDANCE WITH THE AV SYSTEM REQUIREMENTS.
G	GLASS BREAK DETECTOR.
K	INTRUSION DETECTION KEY PAD, ON FLUSH WALL MOUNTED OUTLET BOX, +45".
C	INTRUSION DETECTION SYSTEM DOOR CONTACT SWITCH. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.
S	MINI INTRUSION SIREN
ID	INTRUSION DETECTION OCCUPANCY MOTION SENSOR, ON FLUSH CEILING MOUNTED OUTLET BOX.
P	INTRUSION PANIC BUTTON IN FLUSH IN WALL OUTLET BOX, +45".
M	MICROPHONE OUTLET, ON FLUSH WALL MOUNTED OUTLET BOX, +18".
E	ASSISTIVE LISTENING SYSTEM EMITTER, +90".
VP	HANDS-FREE IP CALL BOX, FLUSH WALL MOUNT, +45".
AV	A/V SYSTEM - PROVIDE 1-1/2"C FROM AV CONTROLLER TO SWITCH AT PROJECTOR ON DISPLAY.
TV	TELEVISION/COAX OUTLET ON FLUSH IN WALL OUTLET, +60"U.O.N.
1V 2D	COMBINATION VOICE/DATA NETWORK OUTLET ON FLUSH IN WALL OUTLET BOX, +18", U.O.N. PROVIDE ONE (1) VOICE AND TWO (2) COMPUTER NETWORK CONNECTORS AND COVER PLATES AS SPECIFIED. PROVIDE ONE (1) VOICE AND TWO (2) DATA NETWORK CABLES AS SPECIFIED FROM OUTLET, TO ABOVE CEILING, AND ON TO THE CABLE TRAY. TERMINATE CABLING AT THE RESPECTIVE BDF/MDF/IDF.
AV	COMBINATION DATA/POWER/AUDIO VIDEO FLOOR BOX FLUSH IN FLOOR WITH TWO (2) DATA OUTLETS, TWO (2) DUPLEX RECEPTACLES AND EXTRON AV CONNECTOR PLATE, FLOOR BOX AS MANUFACTURED BY FSR OR EQUAL.
(4)	COMBINATION DATA/POWER FLOOR BOX WITH FOUR (4) DATA OUTLETS AND TWO (2) DUPLEX RECEPTACLES, MANUFACTURED BY FSR OR EQUAL.
(6) R	COMBINATION DATA/POWER FLOOR BOX WITH SIX (6) DATA OUTLETS AND THREE (3) DUPLEX RECEPTACLES, MANUFATURED BY FSR OR EQUAL.
(4) PT	COMBINATION DATA/POWER FLUSH IN FLOOR POKE THROUGH DEVICE WITH FOUR (4) DATA OUTLETS AND TWO (2) DUPPLEX RECEPTACLES, WIREMOLD 8AT SERIES OR EQUAL.
(6) PT	COMBINATION DATA/POWER FLUSH IN FLOOR POKE THROUGH DEVICE WITH SIX (6) DATA OUTLETS AND THREE (3) DUPLEX RECEPTACLES, WIREMOLD 10AT SERIES OR EQUAL.
(4) PT AV	COMBINATION DATA/POWER/AUDIO-VISUAL FLUSH IN FLOOR POKE THROUGH DEVICE WITH FOUR (4) DATA OUTLETS AND TWO (2) DUPLEX RECEPTACLES AND EXTRON AV CONNECTOR PLATE, WIREMOLD 10AT SERIES OR EQUAL.
CR	CARD READER ON FLUSH IN WALL OUTLET BOX, +45". PROVIDE MULLION MOUNT TYPE WHERE NO WALL EXIST. PROVIDE 3/4"C. ABOVE ACCESSIBLE CEILING SPACE.
C	CLOSED CIRCUIT TELEVISION CAMERA. PROVIDE CAMERA AND WEATHERPROOF OUTLET BOX WITH 1" CONDUIT TO CLOSEST CABLE TRAY. PROVIDE INSULATED BUSHINGS ON CONDUIT ENDS. PROVIDE TWO (2) CAT6E COMPUTER/DATA NETWORK CABLES AS SPECIFIED TO THE RESPECTIVE BDF/IDF AND CONNECT AS REQUIRED.
	TELEPHONE OUTLET ON FLUSH IN WALL OUTLET BOX, +18"AFF U.O.N. "W" DESIGNATION INDICATES MOUNT AT +45" AFF. "E" DESIGNATION INDICATES FOR ELEVATOR. "F" DESIGNATION INDICATES FOR FAX MACHINE. PROVIDE 3/4"C. TO ABOVE CEILING. PROVIDE MULTI PAIR CABLE FROM OUTLET TO THE RESPECTIVE BDF/IDF.

TELECOM SYMBOL LIST

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TELECOM SYMBOL LIST, NOTES AND DETAILS

drawing no.:
ET-1

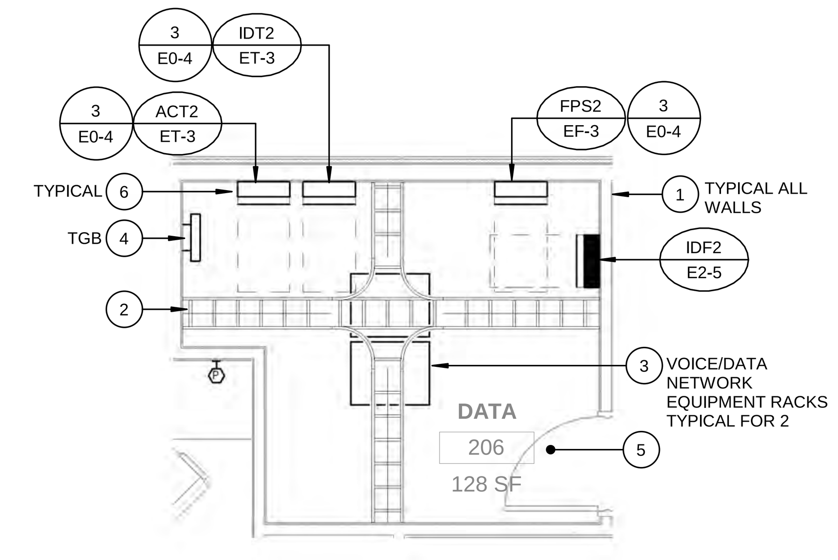
LOW VOLTAGE TASK RESPONSIBILITY MATRIX					
ITEM	**GC**	**EC**	**CC**	**AVC**	**SC**
EQUIPMENT					
AV EQUIPMENT - AV SPEAKER SYSTEMS	Y			Z	
AV EQUIPMENT - ALL OTHER AV EQUIPMENT				X	
SECURITY EQUIPMENT AND CONFIGURATIONS					X
INFRASTRUCTURE / COMMISSIONING					
INTRA-BUILDING LOW VOLTAGE CONTINUOUS CONDUITS		X			
INTRA-BUILDING LOW VOLTAGE CONDUIT ID LABELING & PULL STRINGS		X			
BUILDING INTERIOR LOW VOLTAGE BACK BOXES / CONDUIT		X			
TELECOM & AV FLOOR BOXES & POKE THRUS		X			
BDF/IDF ROOM CABLE TERMINATION HARDWARE			X		
BDF/IDF ROOM CABLE MANAGEMENT HARDWARE			X		
HORIZONTAL STATION CABLE			X		
BDF/IDF ROOM CABLE RUNWAY			X		
BDF/IDF ROOM & AV ROOM POWER		X			
INTRA-BUIDLING GROUND SYSTEM TO TELECOM AND AV ROOMS		X			
TELECOM ROOM EQUIPMENT GROUNDING			X		
AV CABLING AND TERMINATION				X	
AV SYSTEM TEST, COMMISSIONING AND TRAINING				X	
SECURITY CONDUIT ID LABELING, PULL STRINGS		X			
SECURITY ROOM ACCESS POWER		X			
SECURITY SYSTEM CONDUIT AND PULLBOXES		X			
SECURTY CAMERA CABLING			X		
SECURITY ACCESS CONTROL CABLING					X
SECURITY ACCESS CONTROL CABLING SUPPORTS					X
SECURITY SYSTEM PROGRAMMING					X
SECURITY SYSTEM TEST, COMMISSIONING AND TRAINING					X
STRUCTURAL / SUPPORTS					
BDF/IDF ROOM BACKBOARDS	X				
LOW VOLTAGE/SECURITY ROOM BACKBOARDS	X				
BDF/IDF ROOM EQUIPMENT RACKS LADDER RACKS & BRACKETS			X		
SECURITY RACKS & BRACKETS					X
BACKING, BLOCKING & OTHER STRUCTURAL SUPPORTS FOR LOW VOLTAGE, AV, SECURITY EQUIPMENT	X				
DOOR LOCKING HARDWARE AND INSTALLATION	X				
MATRIX NOTES:					
X - PROVIDED AND FULLY INSTALLED/TEST BY TRADE ENTITY					
Y - PROVIDED AND PARTIALLY INSTALLED BY TRADE ENTITY PER SPECIFICATION SECTION					
Z - FINAL ASSEMBLY, CABLE TERMINATION AND TESTING BY TRADE ENTITY PER SPECIFICATION SECTION					
GENERAL NOTES:					
1. GC = GENERAL CONTRACTOR					
2. SC = SECURITY CONTRACTOR					
3. EC = ELECTRICAL CONTRACTOR					
4. CC = CABLE CONTRACTOR					
5. AVC = AUDIO VISUAL CONTRACTOR					

PCM3, Inc.

Low Voltage Task Responsibility Matrix 180828.xlsx

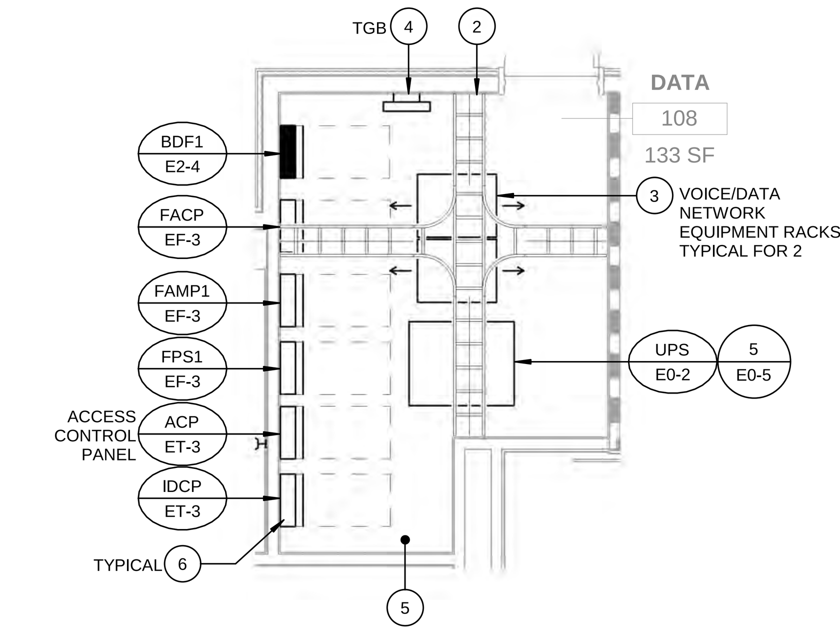
ENLARGED KEY NOTES:

1. PROVIDE 8'-0" X 3/4" THICK FIRE TREATED PLYWOOD BACKBOARD, PAINT OFF WHITE PER DISTRICTS IT STANDARDS.
2. PROVIDE 18" WIDE X 4" DEEP LADDER RACK CABLE TRAY SYSTEM. SEISMIC BRACE ALL CABLE RACEWAYS AND RACKS USING 1/2" ALL THREAD TO CEILING STRUCTURE PER MANUFACTURER'S INSTRUCTION AND CODE REQUIREMENTS.
3. PROVIDE CABLE WATERFALL TROUGHS OVER EACH RACK.
4. PROVIDE MAIN TECHNICAL GROUND BUS PER DETAIL 1/ET-1. BOND ALL METAL COMPONENTS TO THE TECHNICAL GROUND BUS. ALL RACKS TO BOND INDIVIDUALLY MINIMUM #6 AWG CONDUCTOR. WALL MOUNT GROUND BUS ON WALL AT +7'-0".
5. ALL COMPONENTS TO COLOR MATCH (BLACK). SEE SPECIFICATIONS.
6. 24"W X 36"H X 6"D, SURFACE MOUNT.



2ND FLOOR ENLARGED IDF-SS ROOM 2

SCALE 1/4" = 1'-0"



1ST FLOOR ENLARGED BDF-SS ROOM 1

SCALE 1/4" = 1'-0"

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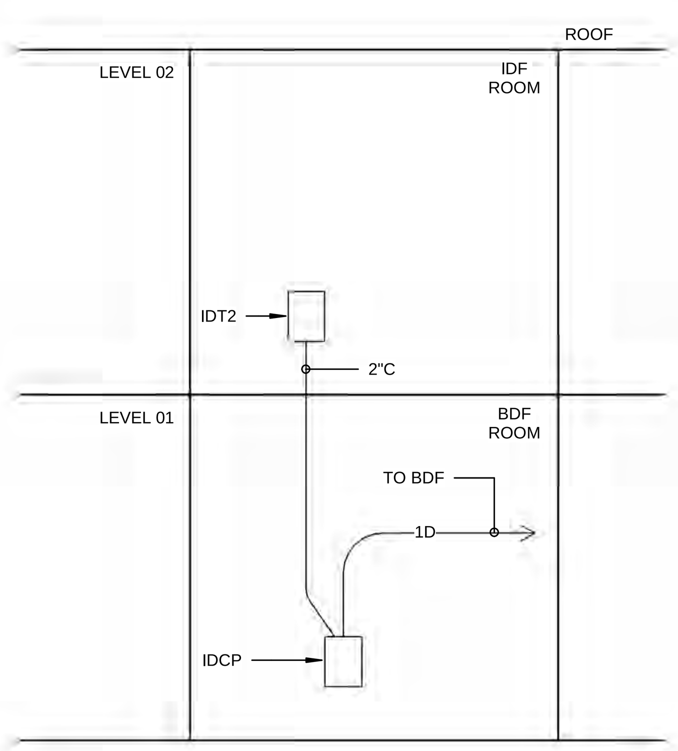
ENLARGED TELECOM ROOMS

drawing no.:
ET-2

NOTE:
ALL CABLE SHALL BE RISER RATED INSIDE OF BUILDING

REFERENCE SECTION 272000 FOR ADDITIONAL REQUIREMENTS

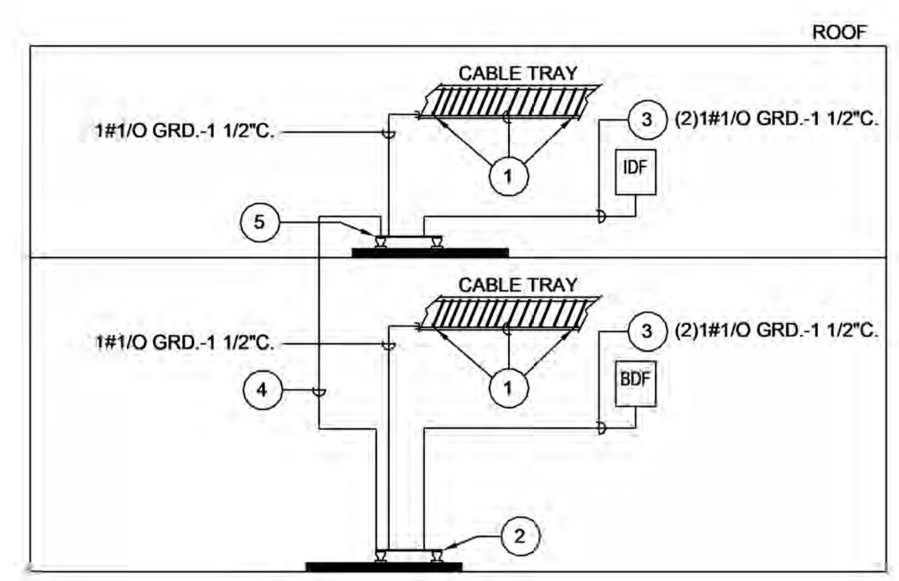


INTRUSION ALARM RISER DIAGRAM

SCALE N.T.S. G

BUILDING GROUNDING RISER DIAGRAM NOTES:

1. THE CABLE TRAY SHALL BE GROUNDED WITH 1#6 INSULATED GREEN COLORED GROUND CONDUCTOR RUN THE ENTIRE LENGTH OF THE CABLE TRAY. EACH CABLE TRAY SECTION SHALL BE CONNECTED TO THE GROUNDING CONDUCTOR VIA A LAY-IN TYPE LUG.
2. GROUND BUS. SEE DETAIL #1 ON SHEET ET-1.
3. PROVIDE 1#1/0 GRD. 1 1/2"C. TO EACH MDF RACK AND BOND AS REQUIRED.
4. DAISY CHAIN 1#1/0 GROUND BUS TO EACH FLOOR GROUND BUS.
5. GROUND BUS. SEE DETAIL #2 ON SHEET ET-1.



BUILDING GROUNDING RISER DIAGRAM

SCALE N.T.S. E

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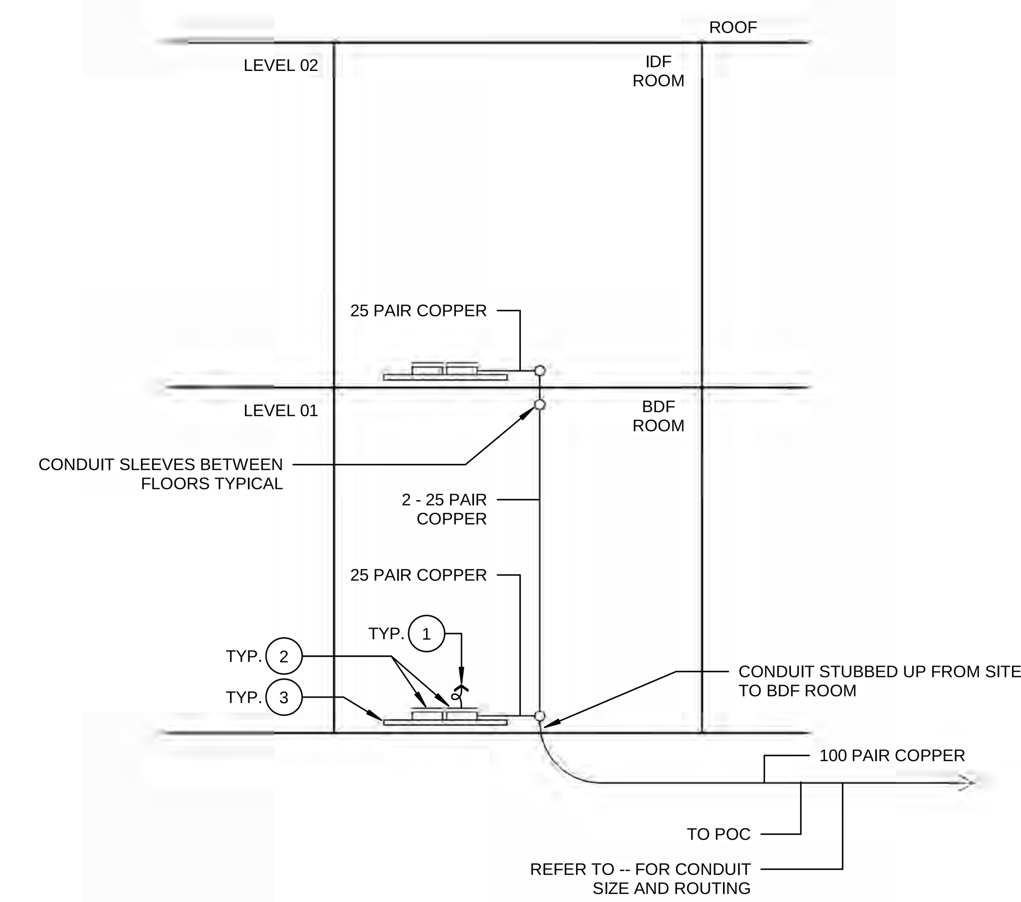
REFERENCE SECTION 272000 FOR ADDITIONAL REQUIREMENTS

PLAN NOTES:

1. CONNECT TELEPHONE WIRES TO COMPUTER RACK PATCH PANEL AS REQUIRED.
2. TELEPHONE PUNCH DOWN BLOCK (66 TERMINAL BLOCKS), QUANTITY AS REQUIRED.
3. FIRE RESISTANT PLYWOOD BACKBOARD. SIZE/QUANTITY AS REQUIRED.



COPPER RISER DIAGRAM

SCALE N.T.S. C

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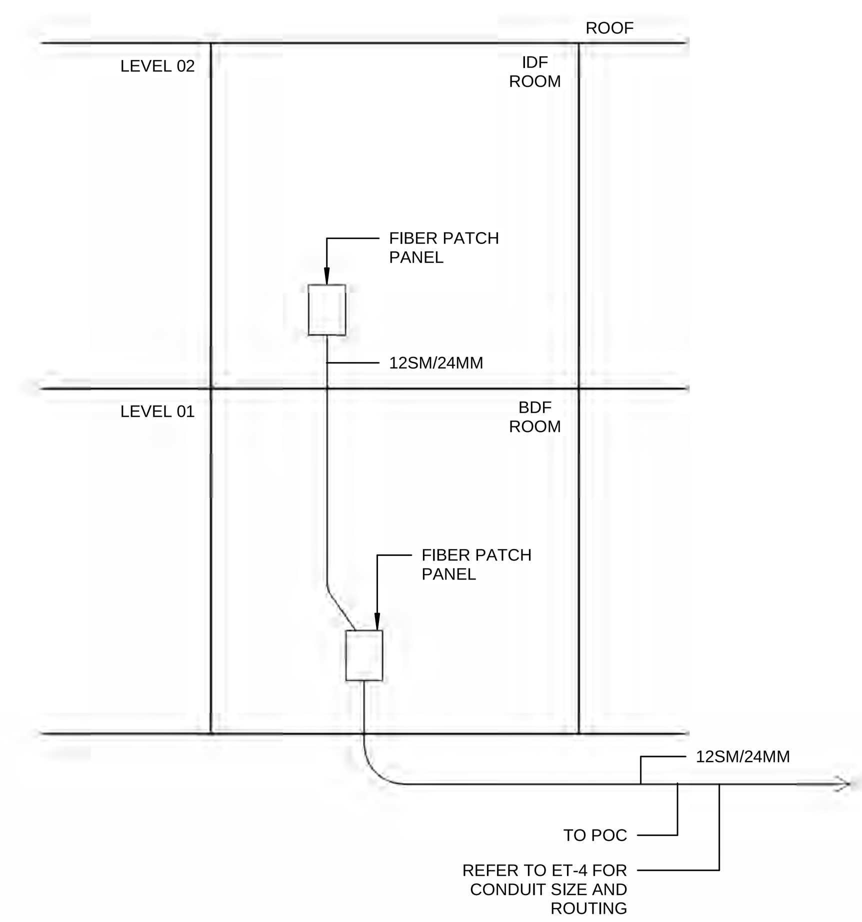

FIBER RISER DIAGRAM

SCALE N.T.S. A

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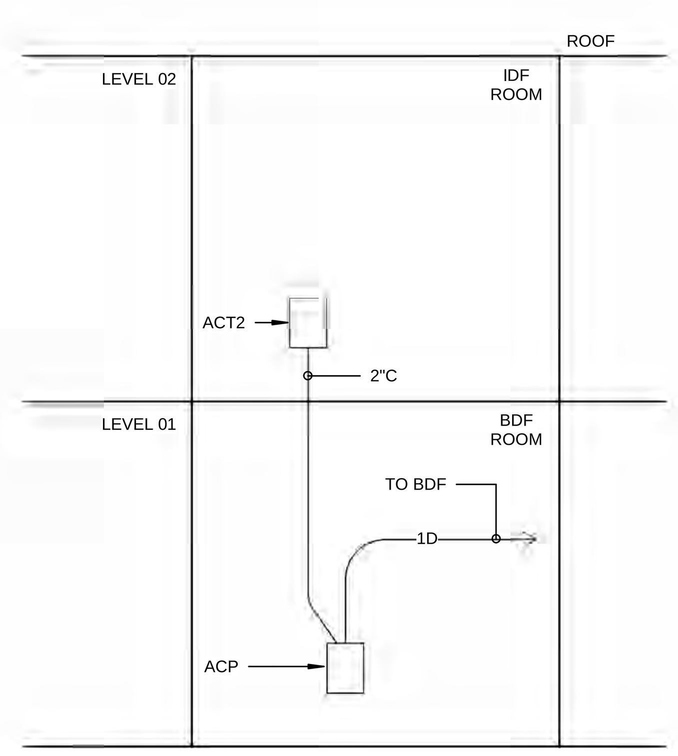
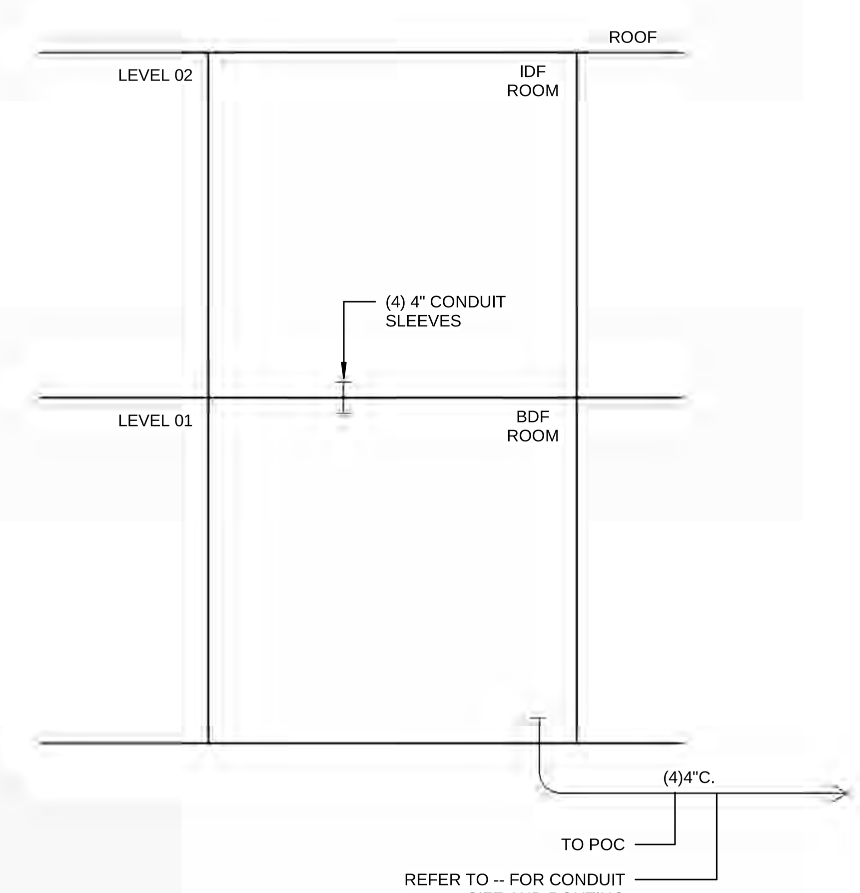


ACCESS CONTROL RISER DIAGRAM

SCALE N.T.S. F

NOTE:
ALL CABLE SHALL BE RISER RATED INSIDE OF BUILDING

REFERENCE SECTION 272000 FOR ADDITIONAL REQUIREMENTS

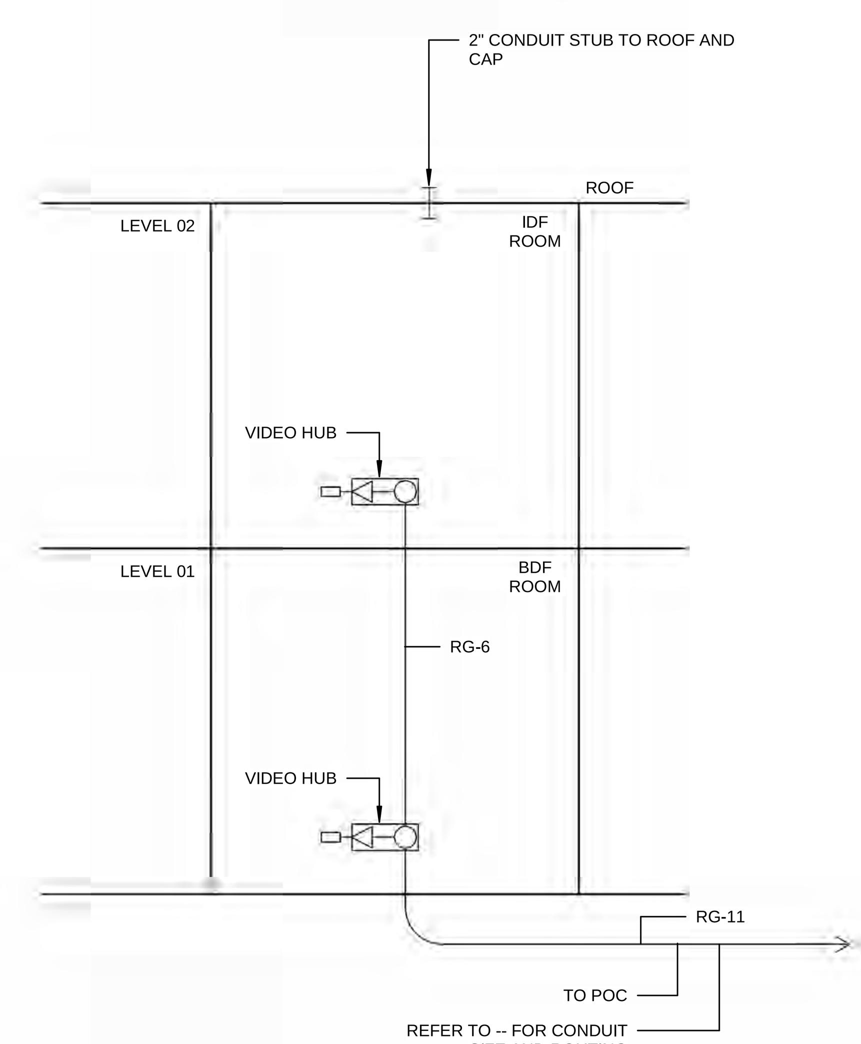


TELECOM CONDUIT RISER DIAGRAM

SCALE N.T.S. D

NOTE:
ALL CABLE SHALL BE RISER RATED INSIDE OF BUILDING

REFERENCE SECTION 272000 FOR ADDITIONAL REQUIREMENTS



COAX RISER DIAGRAM

SCALE N.T.S. B

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DIVISION OF THE STATE ARCHITECT
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architect

FBAEngineering

consultant

COMPTON COLLEGE
STUDENT SERVICES BLDG.

COMPTON COMMUNITY COLLEGE DISTRICT
1111 E. ARTESIA BLVD.
COMPTON, CA 90221

owner

tBP project number: 20987.00

file name: CC_SS_E_R18_Central.rvt

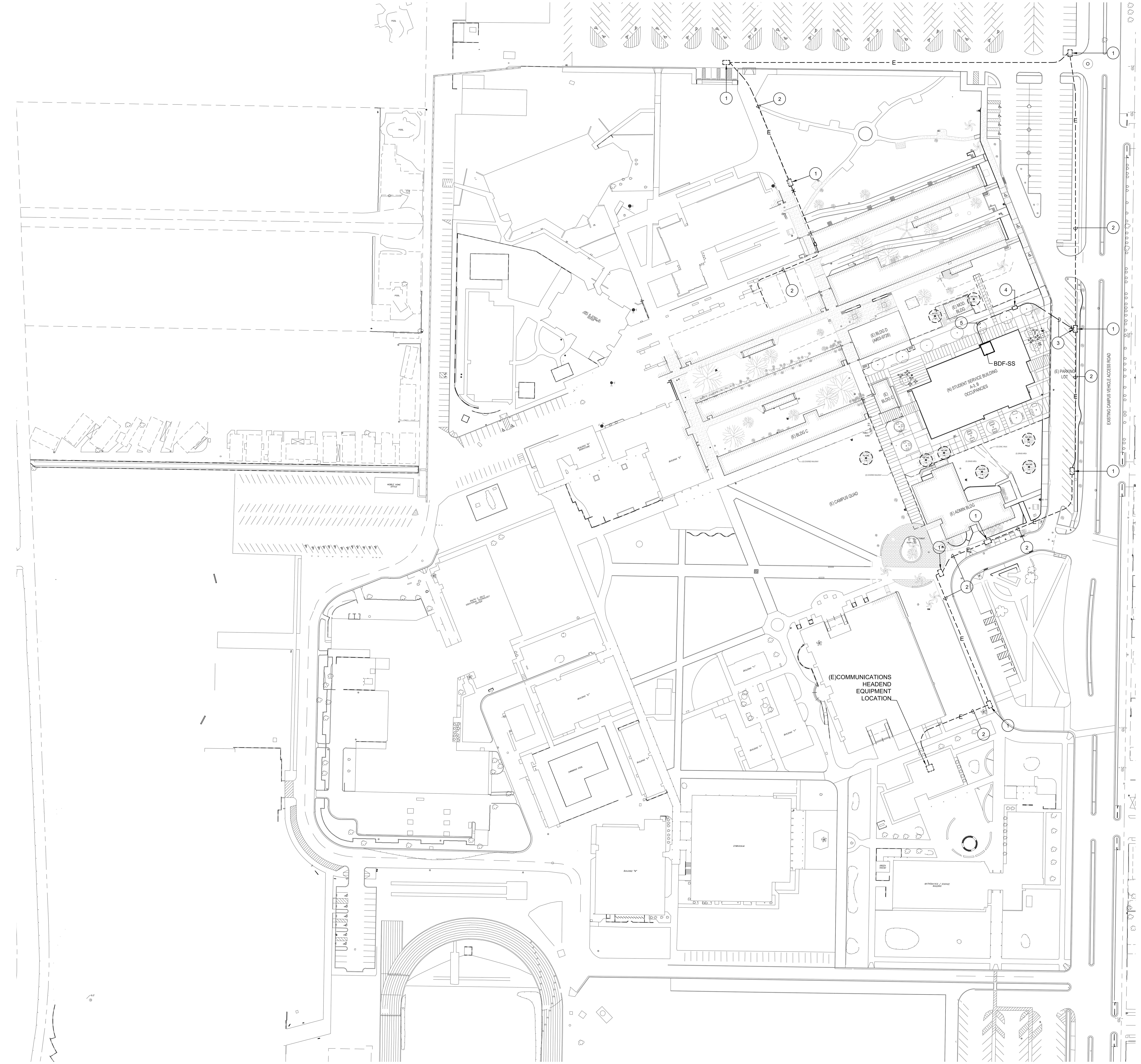
drawn by: FBA checked by: RR

date: 9.03.2019

rev: date: description:

drawing title:
TELECOM SYSTEM
RISER DIAGRAMS

drawing no.:
ET-3



ENLARGED SITE TELECOM PLAN

SCALE: 1" = 60'-0"

0 15 30 60

NORTH

KEY NOTES

1. EXISTING COMMUNICATIONS MANHOLE TO REMAIN. PROTECT IN PLACE.
2. EXISTING UNDERGROUND OPTICAL FIBER COMMUNICATIONS CONDUITS WITH TWO(2) 4" SPARE CONDUITS.
3. INTERCEPT AT EXISTING COMMUNICATIONS MANHOLE AND EXTEND THREE (3) 4" CONDUITS TO NEW BUILDING'S BDF.
4. PROVIDE 3'-0" X 5'-0" X 3'-6" DEEP PRECAST CONCRETE PULLBOX WITH BOLT-DOWN TRAFFIC RATED, NON-SLIP COVER. ENGRAVE COVER TO READ: "COMMUNICATIONS."
5. PROVIDE THREE (3) 4" CONDUITS FOR COMMUNICATIONS. PROVIDE INNER DUCT AS SPECIFIED.

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architect

REGISTERED PROFESSIONAL ENGINEER
STEPHEN R. ... LICEK
No. E 10372
Exp. 09-30-20
ELECTRICAL
STATE OF CALIFORNIA

FBA Engineering
Consulting Electrical Engineers
150 Paularino Avenue Suite A120
Costa Mesa, CA 92626
949.852.9995 • 949.852.1657 (fax)
fbaengr.com
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consultant

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tBP project number : 20987.00

file name:

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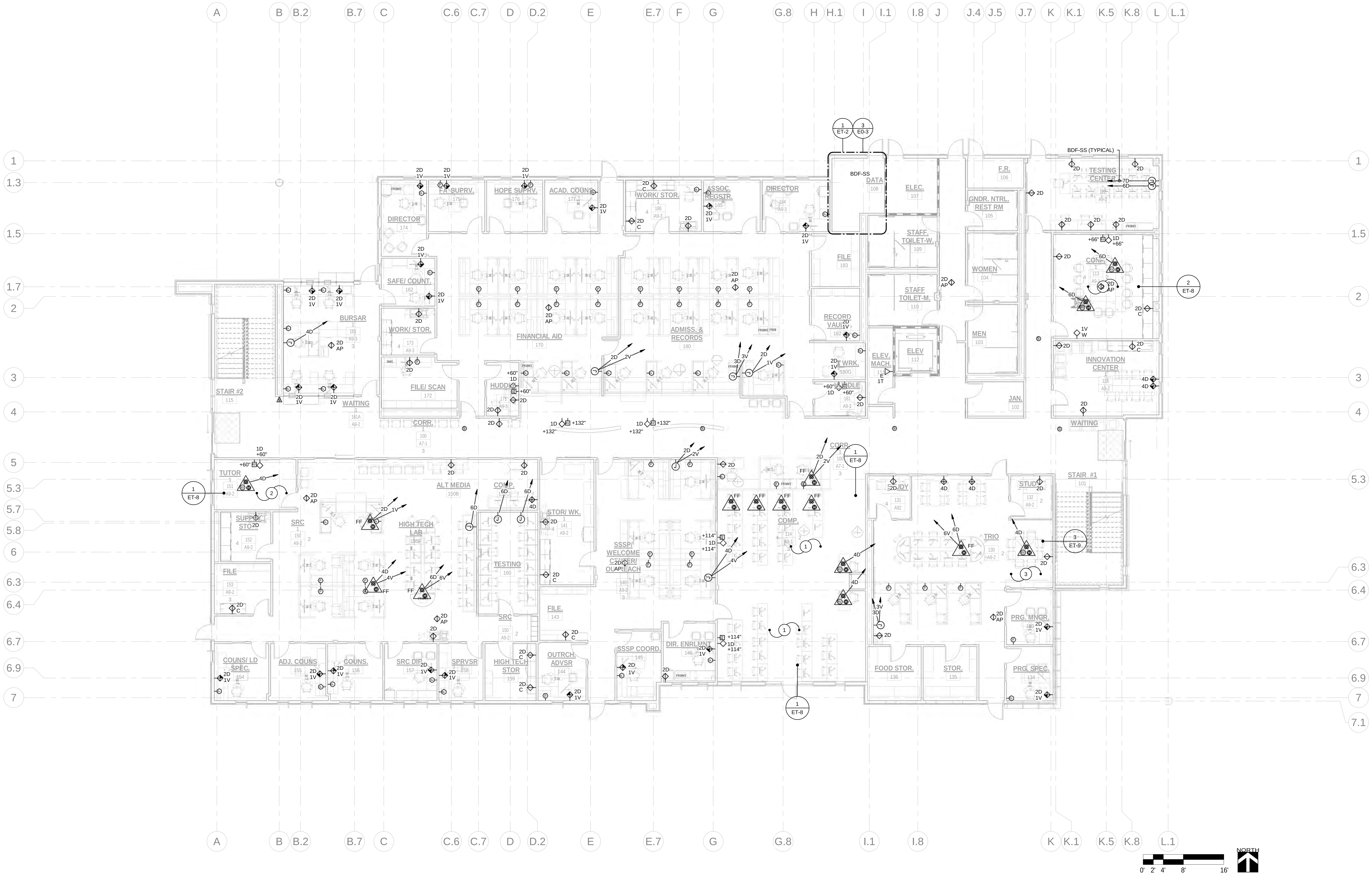
Rev:	date:	description:

drawing title:
ENLARGED SITE TELECOM PLAN

drawing no.:
ET-4



1ST FLOOR TELECOM PLAN 1
SCALE 1/8" = 1'-0"

KEY NOTES

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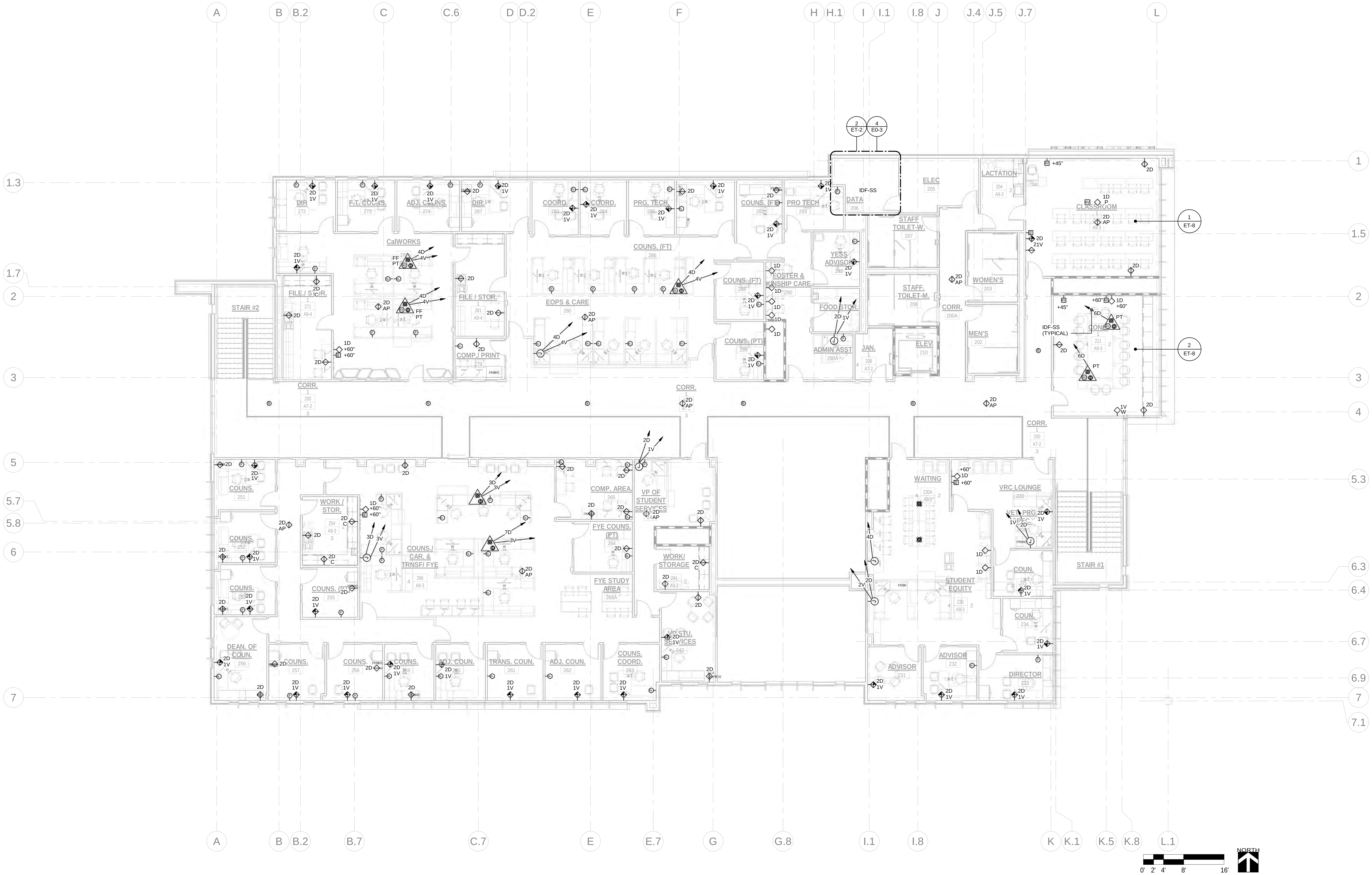
drawing title:
1ST FLOOR TELECOM PLAN

drawing no.:
ET-5



2ND FLOOR TELECOM PLAN 1

SCALE 1/8" = 1'-0"

KEY NOTES

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owner

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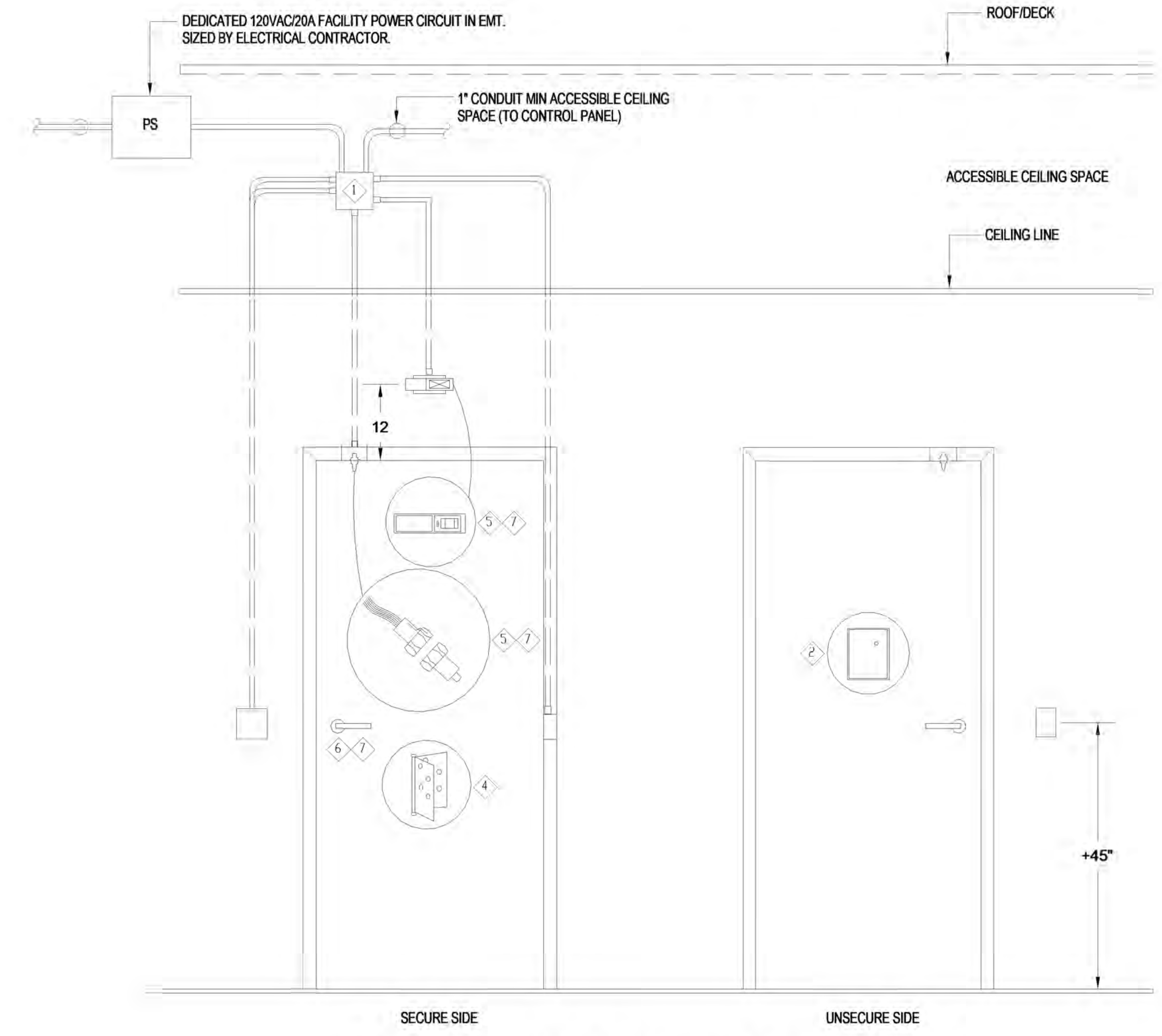
rev:	date:	description:

drawing title:
2ND FLOOR TELECOM PLAN

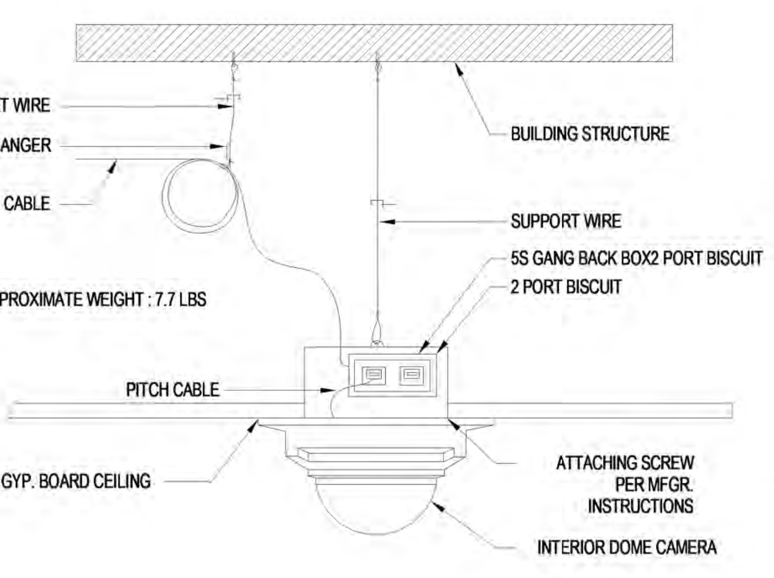
drawing no.:
ET-6

DEVICE SCHEDULE		
1	DOOR HEADER JUNCTION BOX	DOOR HEADER JUNCTION BOX FOR HYBRID/COMPOSITE CABLE BREAKOUT AND OTHER CONNECTIONS AS REQUIRED. SIZE VERIFIED AND ENCLOSURE PROVIDED BY SECURITY CONTRACTOR.
2	CARD READER	CARD READER - SURFACE MOUNTED TO 4S JUNCTION BOX WITH 1 GANG VERTICAL MUD RING @42" AFF ON UNSECURED SIDE, REFER TO RISER DIAGRAM FOR CABLE TYPE.
3	DOOR CONTACTS	EXTERNAL DOOR CONTACT EMBEDDED IN DOOR FRAME 6" FROM DOOR EDGE. REFER TO RISER DIAGRAM FOR CABLE TYPE.
4	HINGE	POWER TRANSFER HINGE - LOCK POWER, REX, DOOR POS. STATUS.
5	REX	REX-EXTERNAL-PIR SENSOR ON HORIZ. 1G CENTERED 12" ABOVE DOOR ON SECURE SIDE. REFER TO RISER DIAGRAM FOR CABLE TYPE.
6	ELECTRIFIED DOOR HARDWARE	ELECTRIFIED DOOR HARDWARE - MORTISE OR CYLINDRICAL LEVER/LOCK SET - EGRESS FROM SECURE SIDE. REFER TO RISER DIAGRAM FOR CABLE TYPE.
7	SUPERVISION	NO NC (4)STATE END-OF-LINE.
8	LOCKING HARDWARE POWER SUPPLY	LOCKING HARDWARE POWER SUPPLY-REQUIRES 120VAC, 20A DEDICATED CIRCUIT IN EMT. CODE REQUIRES LOCATION WITHIN 30 FEET OF DOOR. MULTIPLE DOORS CAN BE SERVED WHERE DISTANCE PERMITS
9	LOCAL DOOR ALARM	

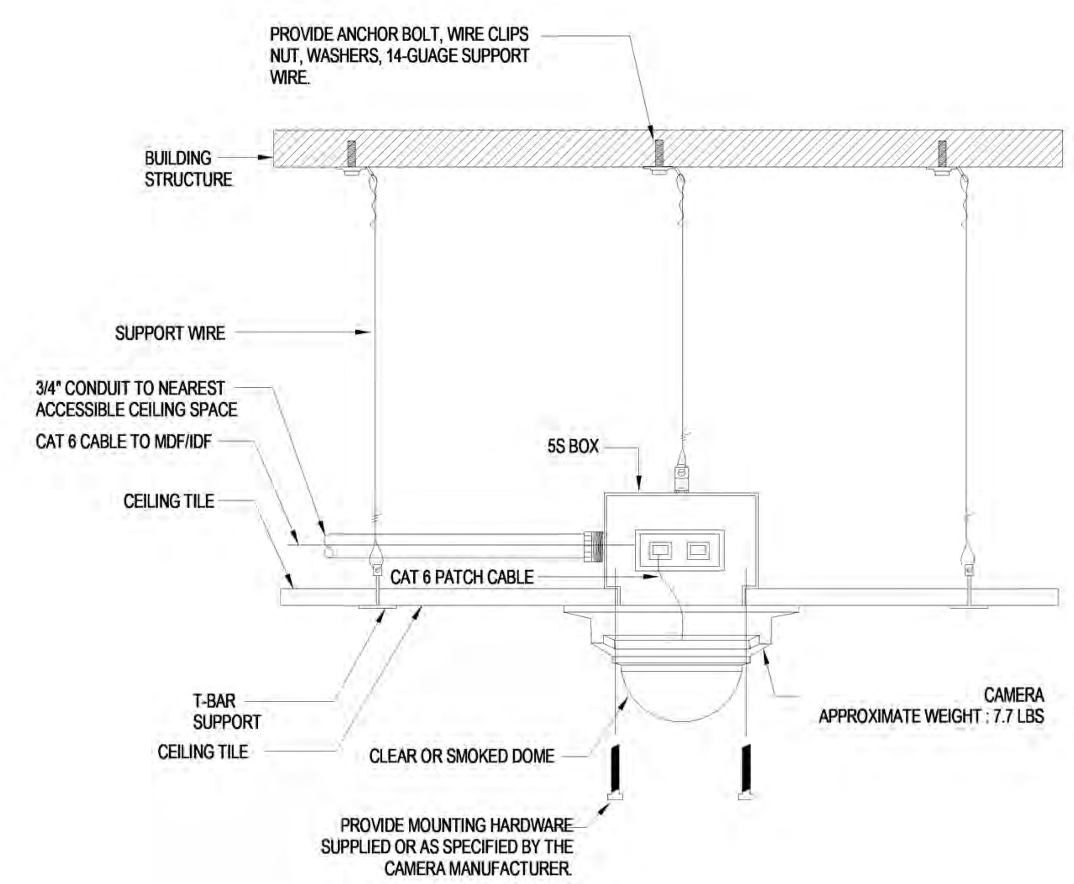


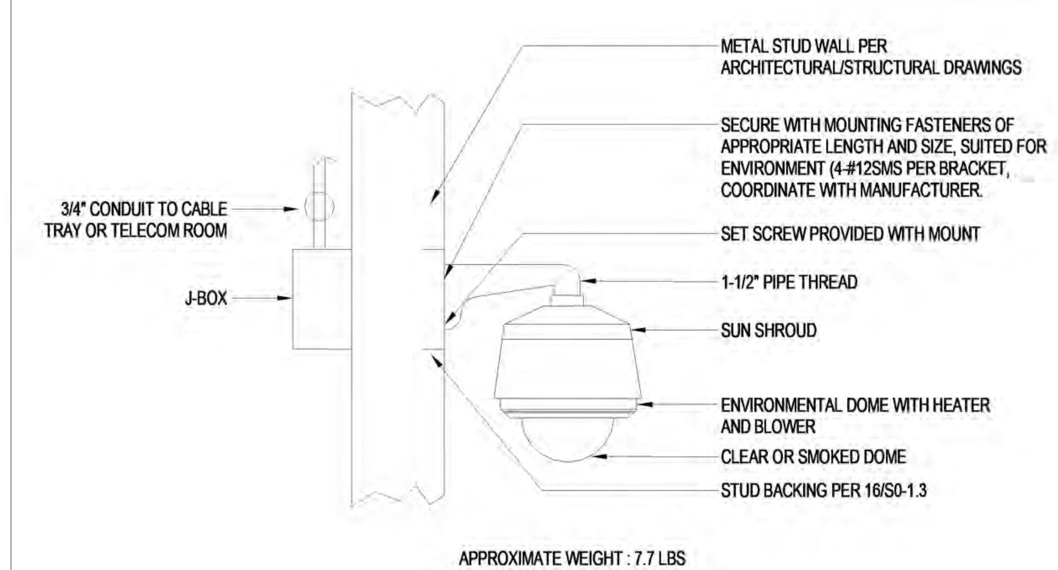
1. DETAIL IS DIAGRAMMATIC ONLY. REFER TO ARCHITECTURAL DOOR HARDWARE LIST FOR DETAILS.
2. COORDINATE WITH OTHERS TRADES TO DELIVER A COMPLETE, FUNCTIONAL SYSTEM
3. ALL CONDUIT SHALL BE 3/4" EMT COMPLETE WITH BUSHING AND PULLSTRINGS.
4. CONTRACTOR SHALL COORDINATE WITH DIVISION 8 DOOR HARDWARE CONTRACTOR AND REFERENCE ARCHITECTURAL DRAWINGS FOR DOOR HARDWARE SCHEDULE DETAIL.

TYPICAL SINGLE DOOR ACCESS CONTROL DETAIL — SCALE: NTS. — 1



HARD LID MOUNT CAMERA — SCALE: NTS. — 2





DROP TILE MOUNT CAMERA — SCALE: NTS. — 4

WALL MOUNT CAMERA — SCALE: NTS. — 3

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COMPTON COMMUNITY COLLEGE DISTRICT
1111 E. ARTESIA BLVD.
COMPTON, CA 90221

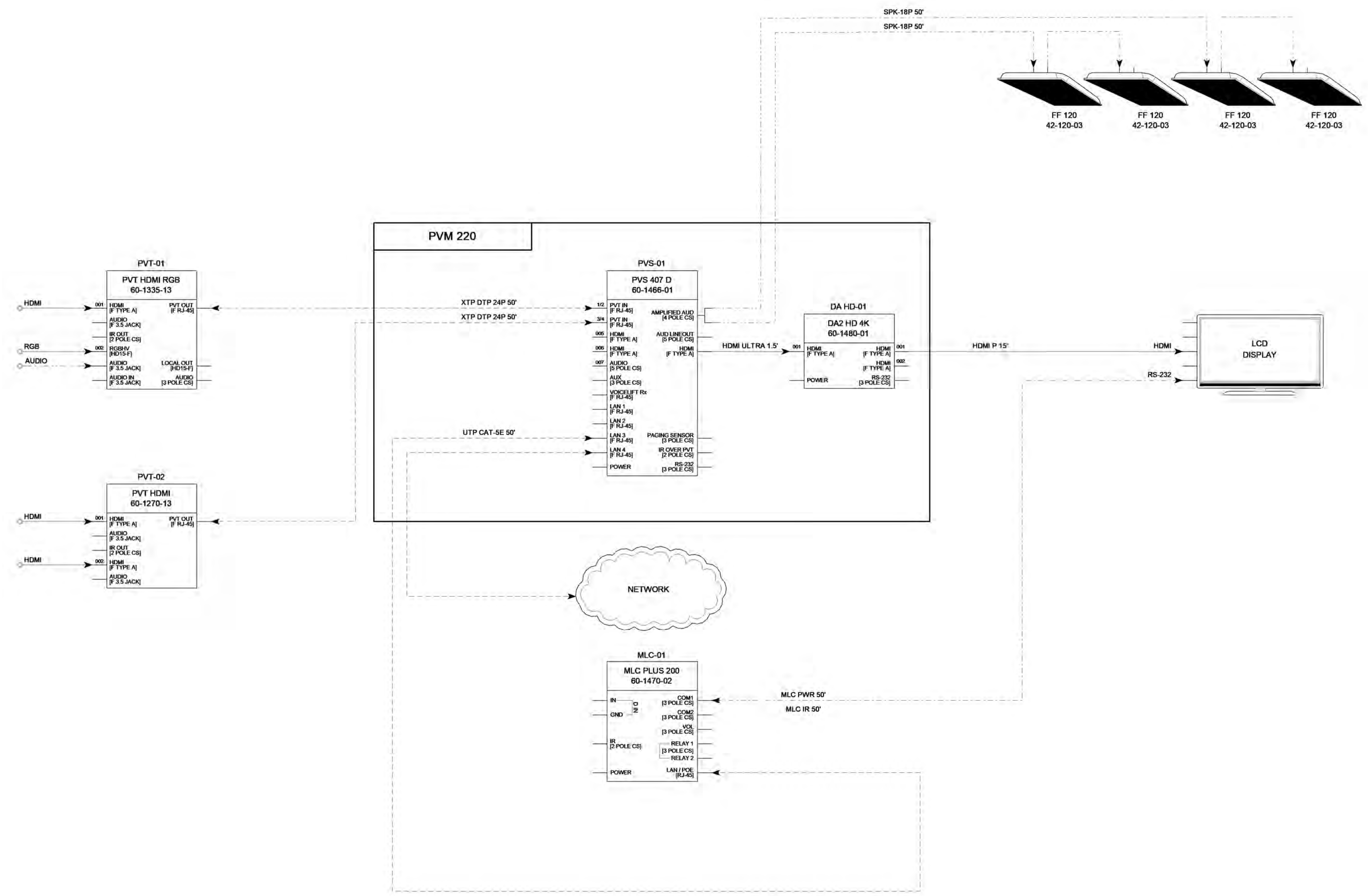
owner

tBP project number: 20987.00
file name: CC_SS_E_R18_Central.rvt
drawn by: FBA checked by: RR
date: 9.03.2019

rev:	date:	description:

drawing title:
TELECOM DETAILS

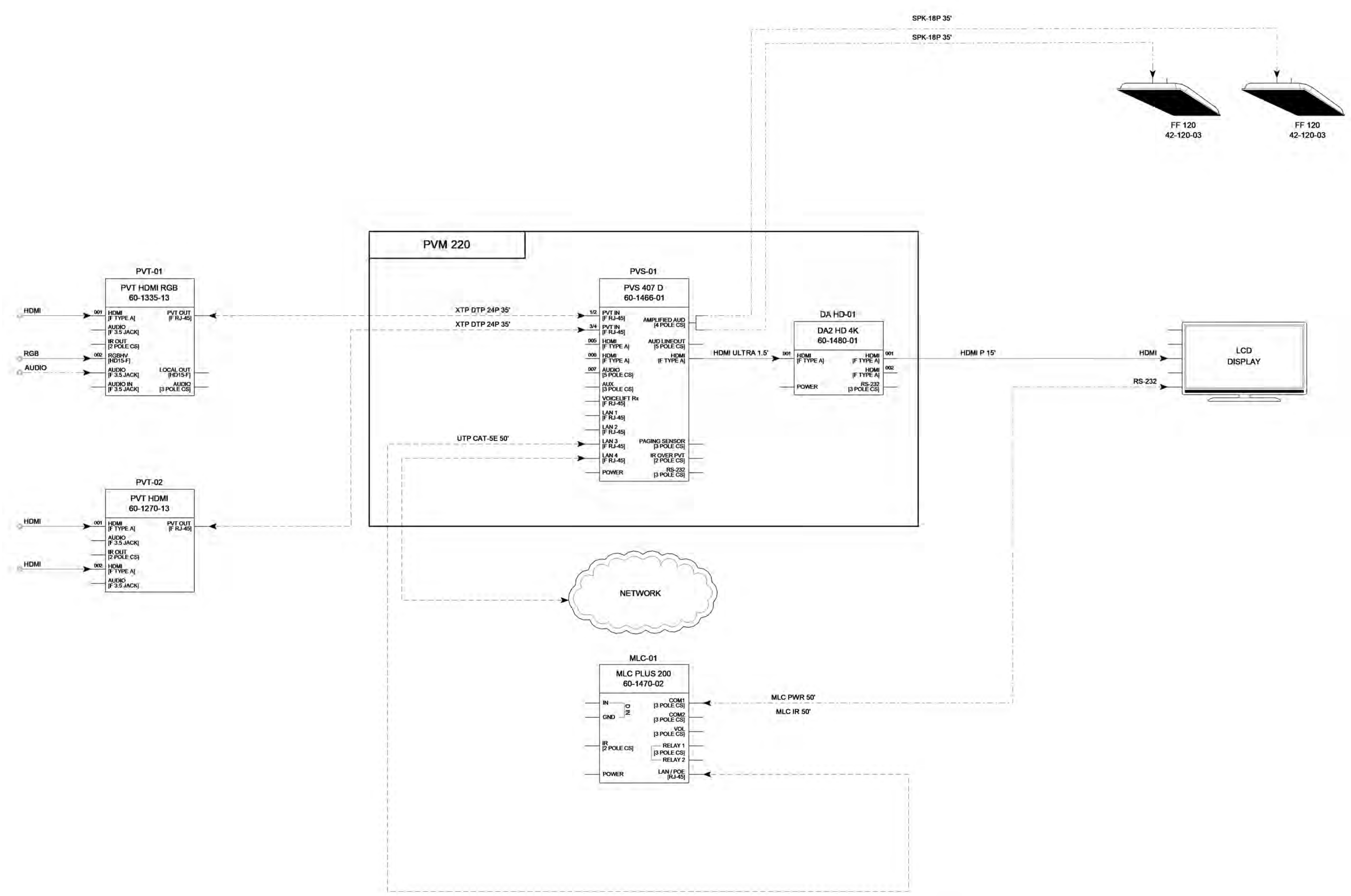
drawing no.:
ET-7



CLASSROOM

NTS

1
ET-8



CONFERENCE ROOM

NTS

2
ET-8

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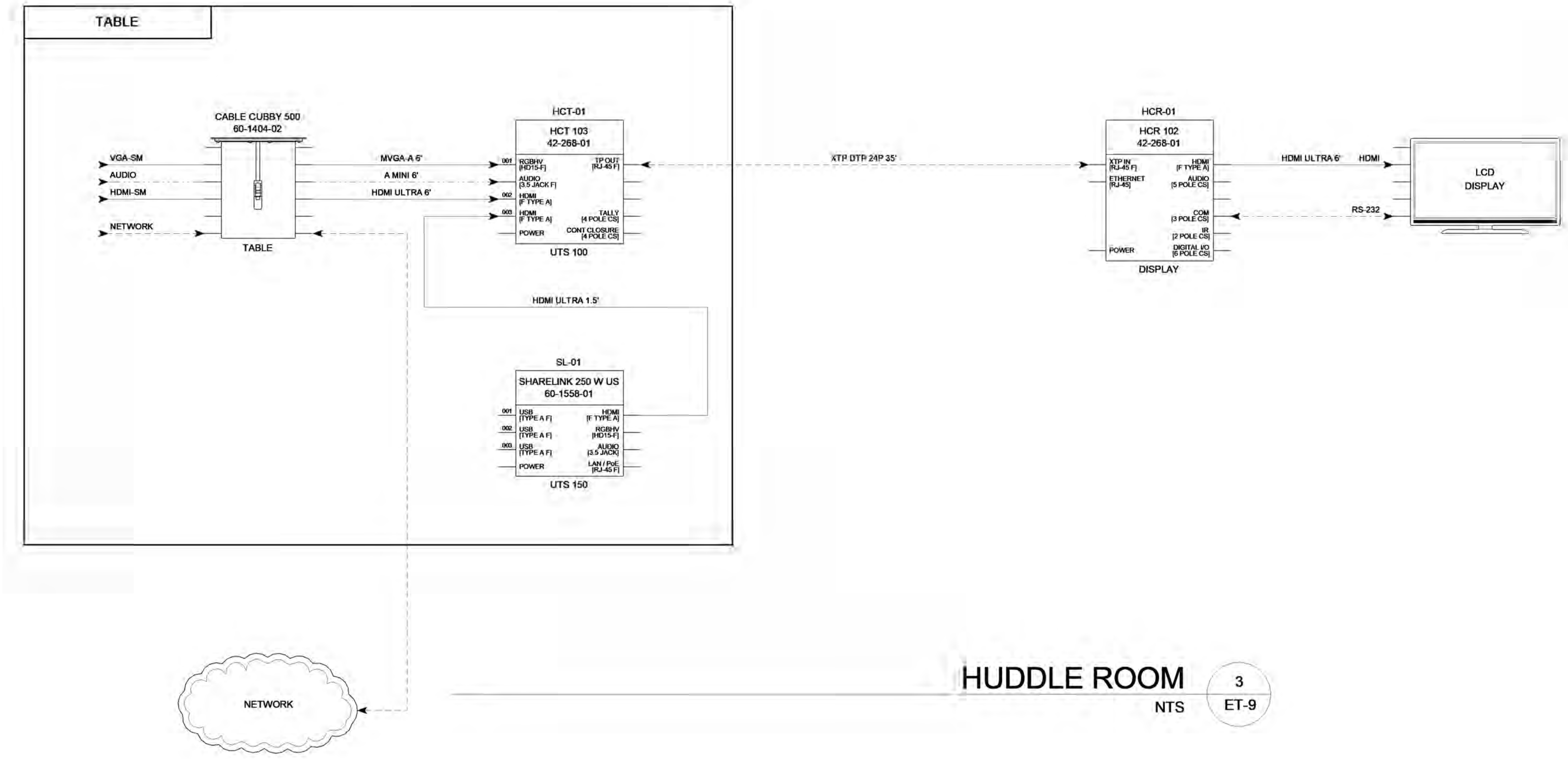
drawing title:
AV WIRING DIAGRAMS

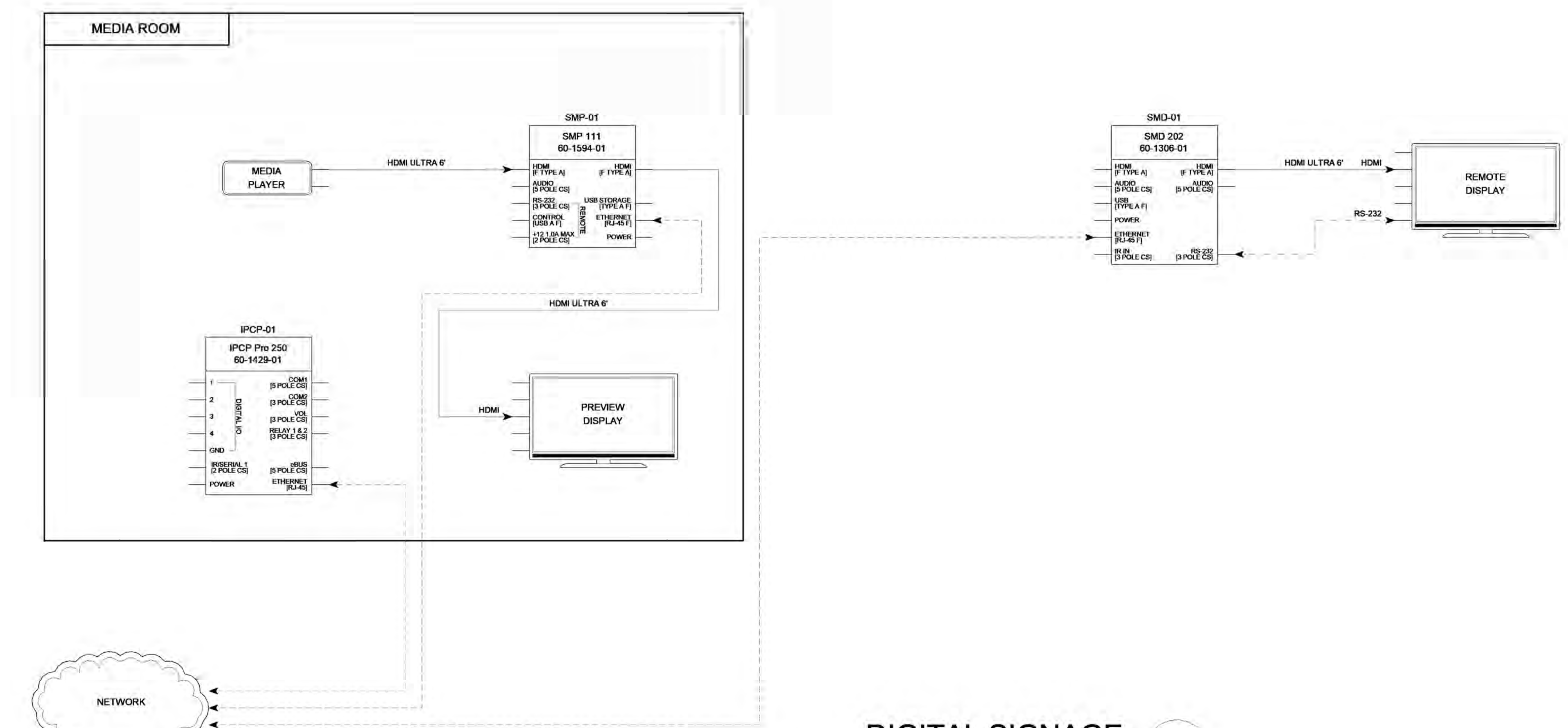
drawing no.:
ET-8



HUDDLE ROOM

NTS

3
ET-9



DIGITAL SIGNAGE

NTS

4
ET-9

IDENTIFICATION STAMP
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rev: date: description:

drawing title:
AV WIRING DIAGRAMS

drawing no.:
ET-9

ALUMINUM STOREFRONT, CURTAINWALL, DOORS, WINDOWS SHOP DRAWINGS

Submittal No. 2 DATE: 10/04/19

THESE DRAWINGS WERE PRODUCED USING THE FOLLOWING RESOURCES:
ARCHITECTURE DRAWINGS DATED 12-21-2018
AAE303

COMPTON COLLEGE
STUDENT SERVICES BUILDING

1111 E. ARTESIA BLVD.
COMPTON, CA 90221

PROJECT INFORMATION :

PROJECT:

COMPTON COLLEGE
STUDENT SERVICES BUILDING
1111 E. ARTESIA BLVD.
COMPTON, CA 90221

ARCHITECT:
TBP ARCHTIECTURE
4611 TELLER AVE.
NEWPORT BEACH, CA 92660
Phone: 949.673.0300
Fax: 949.732.3895

GENERAL CONTRACTOR :
Phone:
Fax:

GLAZING CONTRACTOR:
Phone:
Fax:

FRAMING:

Storefront	: 1 3/4" x 4" A400 Series Center-Glazed
Curtain Wall	: 2 1/4" x 6" T500-OPG-6000 Series
	2 1/4" x 10" T500-OPG-3000 Series
Window Wall	: 2 1/4" x 4 1/2" TC-470 Series Offset-Glazed
Windows	: ULT-500 Series
Doors	: MS362HD Series

FRAME FINISH: TBD

DESIGN CRITERIA: PLEASE PROVIDE

Arch ref: Structural Note S0-0.1

BUILDING CODE : CALIFORNIA BUILDING CODE 2016 EDITION

MATERIAL:
- ALUMINUM FRAMING MEMBERS HAVE BEEN DESIGNED PER THE ALUMINUM DESIGN MANUAL. ALUMINUM FRAMING MATERIAL TO BE 6063-T6 TEMPER ALLOY UNLESS NOTED OTHERWISE. THE MAIN FRAMING MEMBERS HAVE EITHER BEEN DESIGNED AS CHANNEL MEMBERS OR TUBULAR MEMBERS. THESE MEMBERS ARE TREATED AS BEAMS AND ARE SUBJECT TO COMPRESSION IN THEIR GROSS SECTION AND EXTREME FIBERS. THE ALUMINUM SPECIFICATION SECTIONS THAT APPLY ARE 3.4.11 FOR CHANNEL SHAPES AND 3.4.14 FOR TUBULAR SHAPES. SPECIFICATION SECTIONS 3.4.15, 3.4.16, 3.4.16.2, AND 3.4.18 APPLY FOR BOTH CHANNEL AND TUBULAR SHAPES.
- ALL FASTENERS SHALL BE ZINC PLATED STEEL UNLESS NOTED OTHERWISE.
- SEALANT SEE SEPARATE SUBMITTAL
- GLASS AND GLAZING SEE SEPARATE SUBMITTAL
- HARDWARE SEE SEPARATE SUBMITTAL

SEISMIC DESIGN:

I = 1.25
SITE CLASS = D
OCCUPANCY CAT. = III
DESIGN PROCEDURE = RSA
Ss = 1.674
S1 = 0.611
SDS = 1.116
SD1 = 0.611
Rho = 1.3
R = 3.25
Cd = 3.25
Ω = 2
BUILDING DRIFT : Roof Displacement = $1\frac{1}{2}$"
2nd Floor Displacement = 1"

WIND DESIGN:

OCCUPANCY CAT. = III
Kz = 1.07
Kd = 0.85
Kzt = 1
BASIC WIND SPEED = 115 MPH
EXPOSURE = C
INTERNAL PRESS. COEFF = +/- 0.18
LIVE LOAD DEFLECTION = $\frac{3}{4}$"

GLAZING CONTRACTOR, GENERAL CONTRACTOR, & ARCHITECT NOTES:

1. THE FOLLOWING SHOP DRAWING ARE FOR THE SPECIFIC ALUMINUM WINDOWS, STOREFRONTS, CURTAIN WALLS, DOORS MATERIAL ONLY. UNLESS SPECIFICALLY NOTED:
   A. SURROUNDING STRUCTURES / SUBSTRATE DETAILS ARE FOR REFERENCE ONLY AND MUST BE VERIFIED BY ARCHITECT, CONTRACTORS AND SUB-TRADES AS REQUIRED
   B. ALL DIMENSIONS, QUANTITIES AND CONDITIONS SHOWN MUST BE VERIFIED IN FIELD BEFORE FABRICATION AND INSTALLATION
   C. THESE SHOP DRAWINGS WHEN APPROVED WILL SUPERSEDE ALL OTHER DOCUMENTS WITH WHICH THE JOB WILL BE MANUFACTURED. ANY SUBSEQUENT CHANGES ARE SUBJECT TO THE APPROVAL OF ARCADIA INC.
   D. TOLERANCE OF ROUGH OPENING SHALL BE A MINIMUM +/- 3/16"
2. ARCADIA INC IS NOT RESPONSIBLE FOR WORK AND/OR ERRORS INCURRED BY OTHER TRADES THROUGH THE USE OF THIS SHOP DRAWING
3. ALL APPROVALS OF THESE SHOP DRAWING BY CONSULTANT, PUBLIC AGENCY ARCHITECT ETC. MUST BE OBTAINED BEFORE DIES ARE CUT, MATERIAL FABRICATED OR SHIPPED. ARCADIA INC. IS NOT RESPONSIBLE FOR MATERIAL FABRICATED, SHIPPED OR ERECTED PRIOR TO ALL APPROVALS.
4. THE CAPACITY OF THE BUILDING STRUCTURE TO SUPPORT THE DEAD AND WIND LOADING HAS NOT BEEN EVALUATED. A COPY OF THESE SHOP DRAWING AND CALCULATIONS SHOULD BE SUBMITTED TO THE PROJECT STRUCTURAL ENGINEER SO THAT THE ADEQUACY OF THE BUILDING STRUCTURE CAN BE EVALUATED.
5. ALL GASKET JOINTS, BUTT JOINTS, HORIZONTAL AND VERTICAL JOINT, LAP JOINTS AND WEEP HOLES SHOULD BE SEALED AND INSTALLED WATERTIGHT PER THE INSTALLATION INSTRUCTION AND/OR TEST REPORT AND FOLLOWING SEALANT MANUFACTURER RECOMMENDATIONS AS TO SIZE, METHOD OF APPLICATION AND COMPATIBILITY WITH ADJOINING MATERIAL.
6. IF CONNECTION CONFIGURATION OR MATERIALS DIFFER FROM THOSE USED IN THIS SET OF SHOP DRAWING IT SHALL BE BROUGHT TO THE ATTENTION OF ARCADIA INC. PRIOR TO FABRICATION OR INSTALLATION.
7. ALL SHEAR BLOCKS SHALL BE ALUMINUM WITH A DRILLED HOLE OF MAX. DIAMETER EQUAL TO BOLT DIAMETER PLUS 1/32".
8. ALL BOLTS, LAG SCREWS, AND CONCRETE ANCHORS SHALL BE INSTALLED WITH AMERICAN STANDARD PLAIN WASHERS UNLESS NOTED OTHERWISE. ALL BOLTS SHALL BE ASTM A307 UNLESS NOTED OTHERWISE.
9. ALL POST-INSTALLED CONCRETE ANCHORS ARE SUBJECT TO SPECIAL INSPECTION PER THE ESR AND LOCAL ADOPTED BUILDING CODES.
10. INTERNAL STEEL STIFFENERS WHERE SPECIFIED SHALL BE FABRICATED USING ASTM A-36 STEEL FOR STRUCTURAL SHAPES AND ASTM A-569 FOR COLD FORMED SECTIONS. DIMENSIONS SHOWN IN THESE SHOP DRAWING AND CALCULATIONS ARE APPROXIMATE; ACTUAL FABRICATED SIZE SHALL PROVIDE FOR A TIGHT FIT WITH A MAXIMUM OF 1/8" CLEARANCE.
11. ALL WELDING OF ALUMINUM SHALL BE IN ACCORDANCE WITH BUILDING CODE. WELDING OF ALUMINUM TO OCCUR ONLY AT LOCATIONS SPECIFICALLY SHOWN ON SHOP DRAWING.
12. ALL ALUMINUM IN CONTACT WITH MASONRY, STUCCO, STEEL OR OTHER DISSIMILAR MATERIALS SHALL BE SEPARATED WITH VINYL TAPE OR POLYSTYRENE SHIMS. INTERNAL STEEL REINFORCING SHALL BE SHOP COATED WITH ALKYD TYPE ZINC CHROMATE PRIMER COMPLYING WITH FS TT-P-645.
13. ALL GLASS AND GLAZING SHALL MEET THE REQUIREMENTS FOR THE CURRENT BUILDING CODE. SAFETY GLAZING SHALL BE USED IN ALL AREAS WHERE REQUIRED.
14. GLASS SETTING BLOCKS SHALL BE INSTALLED AT GLASS LITE 1/4 POINTS EXCEPT AS SPECIFICALLY NOTED OTHERWISE ON THE WINDOW WALL ELEVATIONS.
15. ARCADIA INC. IS NOT RESPONSIBLE FOR THE TYPE, SIZE, OR LOCATION OF ANY LOAD BEARING STRUCTURAL MEMBERS OF THE BUILDING. THE DESIGN OF THE WINDOW WALL IS BASED ON THE ASSUMPTION THAT THE BUILDING MEMBERS ARE CAPABLE OF ADEQUATELY SUPPORTING ALL WIND AND DEAD LOADS IMPOSED ON THEM BY THE SYSTEM. THIS SYSTEM, AS DETAILED, SHALL BE DESIGNED TO ACCOMMODATE A BUILDING DEFLECTION OF + OR - 1/4" VERTICALLY. THE STRUCTURAL ENGINEER OF RECORD FOR THE BUILDING SHALL VERIFY THAT ALL SURROUNDING STRUCTURES TO WHICH WINDOW WALL FRAMING IS TO BE ANCHORED ARE STRUCTURALLY SOUND AND CAPABLE OF SUPPORTING THE WEIGHTS AND REACTIONS OF THESE SYSTEMS UNDER MAXIMUM DESIGN LOADS.
16. STRUCTURAL ATTACHMENT BETWEEN ALUMINUM FRAMING AND STEEL STUD FRAMING SHALL BE ADEQUATE TO ACCEPT ALL LOADS IMPOSED BY THE WINDOW OR CURTAIN WALL FRAMING.(STEEL STUD FRAMING DESIGN AND SUPPLY BY OTHER)
17. THE WINDLOAD REACTIONS ACT PERPENDICULAR TO THE ELEVATION AT EACH MULLION LOCATION
    THE DEAD LOAD REACTIONS ACT IN THE DOWNWARD DIRECTION AT EACH MULLION LOCATION.
    THE WINDLOAD AND DEAD LOAD REACTIONS SHOWN ARE THE WORST CASE REACTIONS PER ELEVATION.
18. USE 100% ELONGATION SILICONE SEALANT AT ALL LOCATIONS.
19. ALL SCREWS TO BE 18-8 STAINLESS STEEL OR SAE J429 GRADE 2 MINIMUM.

SHEET INDEX

SHEET INDEX

NO.	SHEET NO.	SHEET TITLE	REVISION △	△	△	△

ARCADIA, INC.® PRODUCT USE & WARRANTY

Product Use
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Warranties
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REVIEW NOTES

Statement of General Conformance

FOR ARCHITECTS/ENGINEERS WHO UTILIZE PLANS, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS

(Application No. 03-119686 **File No.** ______________ **)**

☒ The drawings or sheets listed on the cover or index sheet
☐ This drawing, page of specifications/calculations

have been prepared by other design professionals or consultants who are licensed and/or authorized to prepare such drawings in this state. It has been examined by me for:

1) design intent and appears to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications prepared by me, and
2) coordination with my plans and specifications and is acceptable for incorporation into the construction of this project.

The Statement of General Conformance "shall not be construed as relieving me of my rights, duties, and responsibilities under Sections 17302 and 81138 of the Education Code and Sections 4-336, 4-341 and 4-344" of Title 24, Part 1. *(Title 24, Part 1, Section 4-317 [b])*

I find that: ☒ All drawings or sheets listed on the cover or index sheet
☐ This drawing or page

☒ is/are in general conformance with the project design intent, and	☐ is/are in general conformance with the project design intent, and
☒ has/have been coordinated with the project plans and specifications.	☐ has/have been coordinated with the project plans and specifications.
Signature **Date** 10/01/19	**Signature** **Date**
Architect or Engineer designated to be in general responsible charge	**Architect or Engineer delegated responsibility for this portion of the work**
YOUNG K. NAM **Print Name**	**Print Name**
S4029 **License Number** 09/30/20 **Expiration Date**	**License Number** **Expiration Date**

FIELD TESTING

REFER TO AAMA 502-12 VOLUNTARY SPECIFICATION FOR FIELD TESTING OF NEWLY INSTALLED FENESTRATION PRODUCTS FOR COMPLETE TESTING METHODS AND GUIDELINES

FIELD TESTING OF INSTALLED SPECIMENS, (IF REQUIRED), SHALL BE TESTED AT A $\frac{1}{3}$ REDUCTION OF THE TEST PRESSURE LISTED IN PROJECT SPECIFICATIONS. (PER AMMA 502-12)

REF: SECTION 5.3.2 TEST PROCEDURES; NOTE 6.
Unless otherwise specified, **water penetration resistance tests shall be conducted at a static test pressure equal to $\frac{2}{3}$ of the tested and rated laboratory performance test pressure** as indicated by the applicable product designation in AAMA/ WDMA/ CSA 101/ I.S. 2/ A440. For example, a product tested or rated as H-CW40 shall be field tested at a pressure differential of 0.0667 x 360Pa (8 psf) = 240 Pa (5.33 psf)

NARRATIVE NOTE 6:
The default pressures used for water penetration resistance tests conducted in the field are not the same as the laboratory test pressure, to allow for field conditions and test methods that vary from the laboratory test conditions and test methods. These conditions are primarily related to the ambient environmental conditions and the installation. The certified product performance is based on laboratory testing performed under controlled laboratory conditions. The temperature, wind, and barometric pressure conditions during a field test will typically vary from the standard laboratory conditions.

The field installation conditions also influence the product performance. Products tested in the laboratory are perfectly plumb, level and square in a precise opening. Field test specimens, although installed within acceptable industry tolerances, are rarely perfectly plumb, level and square in a precision opening. Shipping, handling, acts of subsequent trades, aging and other environmental conditions all may have and adverse effect upon the performance of the installed specimen. ***A $\frac{1}{3}$ reduction of the test pressure for field testing is specified as a reasonable amount adjustment for the difference between a laboratory test environment and a field test environment.***

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-119686 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 10/14/2019

agency

tBP
architecture
planning
interiors

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4611 Teller Avenue
Newport Beach, CA 92660
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architect

REGISTERED PROFESSIONAL ENGINEER
CRAIG M. HORNER
No. 84674
CIVIL
STATE OF CALIFORNIA

October 07, 2019

consultant

COMPTON COLLEGE
STUDENT SERVICES BLDG.
COMPTON COMMUNITY COLLEGE DISTRICT
1111 E. ARTESIA BLVD.
COMPTON, CA 90221

owner

tBP project number: 20987.00
file name:
drawn by: checked by:
date: 9.2.2019

rev:	date:	description:

drawing title:
COVER SHEET

drawing no.:
CW 0.01

GLASS SCHEDULE / MATERIAL LEGEND

SYMBOL	DESCRIPTION G= Glass Type, X = Equivalent ARCH. ref. number, s = Spandrel, T = Tempered
GL1	1" VISION INSULATED GLAZING - $\frac{1}{4}$" COATED, TINTED, HEAT TREATED GLASS, FULLY TEMPERED, LOW-E COATING ON #2 SURFACE - $\frac{1}{2}$" AIR SPACE - $\frac{1}{4}$" CLEAR HEAT TREATED GLASS, FULLY TEMPERED
GL2	1" OPAQUE SPANDREL INSULATED GLAZING - $\frac{1}{4}$" COATED, TINTED, HEAT TREATED GLASS, FULLY TEMPERED, LOW-E COATING ON #2 SURFACE - $\frac{1}{2}$" AIR SPACE - $\frac{1}{4}$" BACK PAINTED DECORATIVE, HEAT TREATED GLASS, FULLY TEMPERED, COLOR COATING ON #3 SURFACE
GL3	1/4" CLEAR HEAT TREATED GLASS, FULLY TEMPERED
GL4	1" VISION INSULATED GLAZING - $\frac{1}{4}$" COATED, CLEAR, HEAT TREATED GLASS, FULLY TEMPERED - $\frac{1}{2}$" AIR SPACE - $\frac{1}{4}$" UNCOATED CLEAR HEAT TREATED GLASS, FULLY TEMPERED
T	TEMPERED GLASS

MATERIALS:

01 - ALUMINUM SHALL BE 6063-T6 ALLOY (TYPICAL - UNLESS NOTED OTHERWISE)
02 - ALL FASTENERS SHALL BE ZINC PLATED STEEL (UNLESS NOTED OTHERWISE) STAINLESS STEEL FASTENERS WHERE EXPOSED TO WEATHER
03 - PERIMETER FASTENERS PROVIDED BY CUSTOMER
04 - ALL SETTING BOCKS WILL BE SILICONE
05 - ALL GASKETS WILL BE EPDM (UNLESS NOTED OTHERWISE) GASKETS IN CONTACT WITH SEALANT WILL BE SILICONE

SEALANT & SPACER SCHEDULE

TYPE	SPEC REF.	SPEC SECTION	COLOR	DESCRIPTION
STRUCTURAL SEALANT	-	-	BLACK	DOW CORNING 795 (LARR # 24637) WITH $\frac{3}{8}$" MIN BITE.
WEATHER SEALANT	-	-	BLACK	DOW CORNING 795 (LARR # 24637)
SPACER	-	-	BLACK	

REPETITIVE NOTES:

NO	DESCRIPTION
01	SILICONE SEALANT WITH OPEN-CELL BACKER ROD (NOT BY ARCADIA)
01a	WEATHER SEAL SEALANT WITH BACKER ROD (NOT BY ARCADIA)
02	3/4" X 5/16" WEEP HOLE APPROX. 6" FROM EACH END
03	3/4" X 5/16" WEEP HOLE APPROX. 3"" FROM EACH END WITH WEEP BAFFLE - 2 PER LITE
07	SEAL AT FASTENER LOCATIONS
08	1/8" thk END DAM BEDDED IN SEALANT AND SEALED THOROUGHLY
10	5/16" x 5/8" WEEP SLOT @ 4" FROM END SIDE OF MULLION WITH WEEP BAFFLE - 2 PER LITE
13	CLEAR HOLE FOR FASTENER

XXX FASTENERS:

TAG FT.SL.X	DESCRIPTION FT = Fastener Type, SL = Size and Length, X = P for Zinc Plated or S for Stainless Steel		
	1/4"-20 HEX HEAD DRIL-FLEX SCREW		ESR-3332
	#12x1/2" FLAT HEAD SHEET METAL SCREW		
	#12x1/2" PAN HEAD SHEET METAL SCREW		
	3/8" DIA X 2 1/2" HILTI HUS-EZ		ESR-3027
	#10x1/2" PAN HEAD SHEET METAL SCREW		
	1/2" DIA 2" LONG, A307 MACHINE BOLT		
	#12x1 1/2" FLAT HEAD SHEET METAL SCREW		
	#12 HILTI DRIL FLEX SCREW		

GASKET TABLE:

GASKET No.	GASKET	Shop Drawing Reference	SYMBOL	DESCRIPTION
OPG 1985 Gasket			G01	1" Glazing gasket for T-500 OPG series at Front and Back
OPG 1986IP ISOLATOR			G02	Thermal/Pressure Bar Isolator Gasket for OPG-1500
NG106			G03	
AWB-C4375			G04	Anti Walk Block
VTL-9.5 Gasket			G05	1" Glazing Gasket for TC470 at Front and Back
E260 Front Gasket			G06	Front Gasket
E150 Back Gasket			G07	Back Gasket

SETTING BLOCKS

PART No.	BLOCK	Shop Drawing Reference	SYMBOL	DESCRIPTION
			SB01	Setting Block [1" x 7/16" x 4"] SB_1.0000X0.4375X4
			SB02	3/8" x 1"Silicone Setting Block
			SB03	3/4" x 1 1/2" Silicone Setting Block
			SB04	5/8" x 3/8" Silicone Setting Block

LEGEND

REFERENCE	DESCRIPTION	REFERENCE	DESCRIPTION	REFERENCE	DESCRIPTION
X / XX	ELEVATION # SHEET #			●	WIND LOAD
T / B	DETAIL # SHEET #			●	DEAD LOAD
DETNO / SHTNO	DETAIL # SHEET #			▶	= ANCHOR LOCATION INDICATOR(@ D.L)
				▷	= ANCHOR LOCATION INDICATOR(@ W.L)
				◇	= SPLICE LOCATION

ABBREVIATIONS

REFERENCE	DESCRIPTION	REFERENCE	DESCRIPTION
B.O.W.	BOTTOM OF WINDOW	R. O.	ROUGH OPENING DIMENSION
℄	CENTER LINE	T .O.C.	TOP OF CONCRETE
D .L .O.	DAYLIGHT OPENING DIMENSION	T .O.H.	TOP OF HORIZONTAL
D. O.	DOOR OPENING DIMENSION	T.O.W.	TOP OF WINDOW
D. P.	DIMENSION POINT REFERENCE	TYP.	TYPICAL
F. D.	FRAME DIMENSION	V.I.F.	VERIFY IN FIELD
OPP.	OPPOSITE HAND	W.O.	WINDOW OPENING
N.B.A.	NOT BY ARCADIA	L.O.C	LINE OF CENTER

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owner

tBP project number: 20987.00
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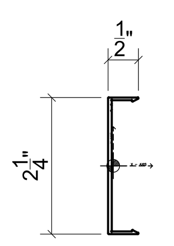
drawn by: checked by:
date: 9.2.2019
rev: date: description:

drawing title:
GENERAL NOTES

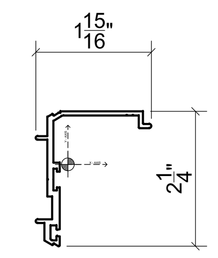
drawing no.:
CW 0.02

OPG1912



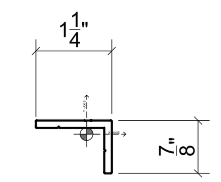
Area: 0.1735
Perimeter: 6.4400
Bounding box: X: -0.0858 -- 0.4142
Y: -1.1233 -- 1.1267
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.1039
Y: 0.0025
Product of inertia: XY: 0.0000
Radii of gyration: X: 0.7737
Y: 0.1196
Principal moments and X-Y directions about centroid:
I: 0.0025 along [0.0001 1.0000]
J: 0.1039 along [-1.0000 0.0001]

OPG1979



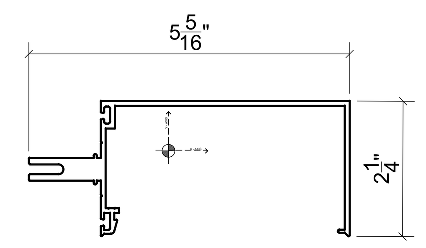
Area: 0.4261
Perimeter: 10.1895
Bounding box: X: -0.5300 -- 1.3780
Y: -1.3489 -- 0.8752
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.2321
Y: 0.1049
Product of inertia: XY: 0.0883
Radii of gyration: X: 0.7381
Y: 0.4963
Principal moments and X-Y directions about centroid:
I: 0.0597 along [0.4559 0.8900]
J: 0.2773 along [-0.8900 0.4559]

OPG1999



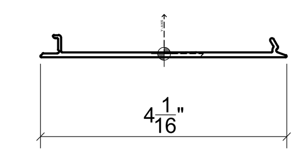
Area: 0.2486
Perimeter: 4.2738
Bounding box: X: -0.8363 -- 0.4137
Y: -0.6486 -- 0.2264
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.0157
Y: 0.0388
Product of inertia: XY: -0.0143
Radii of gyration: X: 0.2514
Y: 0.3950
Principal moments and X-Y directions about centroid:
I: 0.0089 along [0.9019 -0.4319]
J: 0.0457 along [0.4319 0.9019]

OPG6052



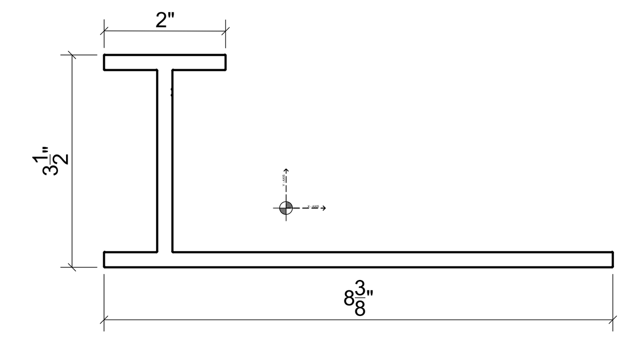
Area: 1.0963
Perimeter: 22.4542
Bounding box: X: -2.3016 -- 2.9844
Y: -1.4085 -- 0.8205
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.4661
Y: 3.5002
Product of inertia: XY: -0.3200
Radii of gyration: X: 0.6521
Y: 1.7868
Principal moments and X-Y directions about centroid:
I: 0.4328 along [0.9946 0.1037]
J: 3.5336 along [-0.1037 0.9946]

OPG6001



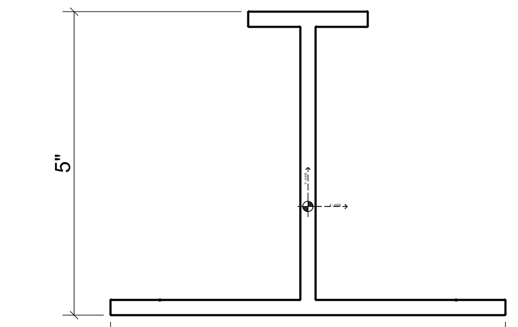
Area: 0.34773 sq in
Perimeter: 9.36438 in
Bounding box: X: -2.04083 -- 2.02317 in
Y: -0.05651 -- 0.30549 in
Centroid: X: 0.00000 in
Y: 0.00000 in
Moments of inertia: X: 0.00137 sq in sq in
Y: 0.51264 sq in sq in
Product of inertia: XY: -0.00174 sq in sq in
Radii of gyration: X: 0.06285 in
Y: 1.21418 in
Principal moments (sq in sq in) and X-Y directions about centroid:
I: 0.00137 along [0.99999 -0.00341]
J: 0.51264 along [0.00341 0.99999]

OPG1552



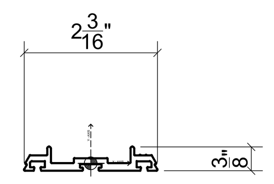
Area: 3.3433
Perimeter: 27.2213
Bounding box: X: -2.9961 -- 5.3789
Y: -0.9752 -- 2.5248
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 5.4178
Y: 20.3583
Product of inertia: XY: 5.6744
Radii of gyration: X: 1.2730
Y: 2.4676
Principal moments and X-Y directions about centroid:
I: 3.5070 along [0.9477 -0.3191]
J: 22.2690 along [0.3191 0.9477]

OPG1550



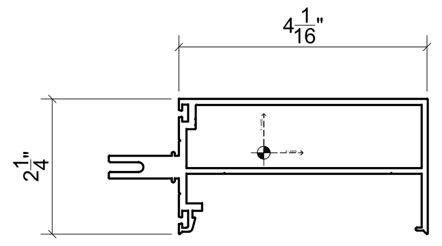
Area: 3.2420
Perimeter: 26.4031
Bounding box: X: -3.2500 -- 3.2500
Y: -1.6703 -- 3.3297
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 11.6188
Y: 5.8841
Product of inertia: XY: 0.0000
Radii of gyration: X: 1.8931
Y: 1.3472
Principal moments and X-Y directions about centroid:
I: 5.8841 along [0.0000 1.0000]
J: 11.6188 along [-1.0000 0.0000]

OPG1902



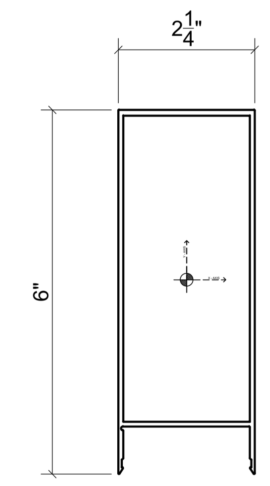
Area: 0.3363
Perimeter: 7.2055
Bounding box: X: -1.0999 -- 1.0981
Y: -0.1209 -- 0.2741
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.0023
Y: 0.1390
Product of inertia: XY: 0.0000
Radii of gyration: X: 0.0829
Y: 0.6430
Principal moments and X-Y directions about centroid:
I: 0.0023 along [1.0000 0.0003]
J: 0.1390 along [-0.0003 1.0000]

OPG6000



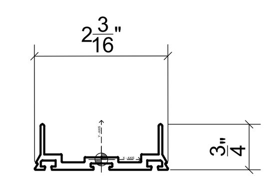
Area: 1.6673
Perimeter: 30.0066
Bounding box: X: -2.5534 -- 2.7016
Y: -1.3416 -- 0.8874
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.5994
Y: 4.7016
Product of inertia: XY: 0.2616
Radii of gyration: X: 0.5996
Y: 1.6793
Principal moments and X-Y directions about centroid:
I: 0.5828 along [0.9980 0.0634]
J: 4.7183 along [-0.0634 0.9980]

OPG600225



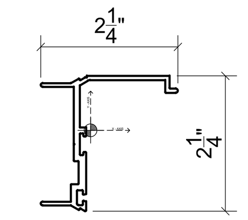
Area: 1.3104
Perimeter: 32.3095
Bounding box: X: -1.1264 -- 1.1236
Y: -3.2022 -- 2.7978
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 5.2280
Y: 1.2465
Product of inertia: XY: -0.0046
Radii of gyration: X: 1.9974
Y: 0.9753
Principal moments and X-Y directions about centroid:
I: 1.2465 along [0.0011 -1.0000]
J: 5.2280 along [1.0000 0.0011]

OPG5002



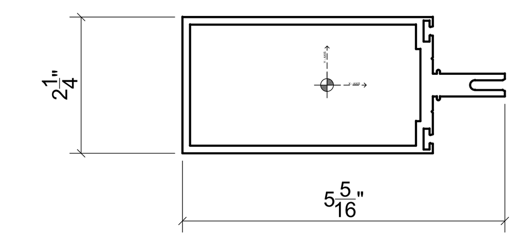
Area: 0.3786
Perimeter: 8.6042
Bounding box: X: -1.0990 -- 1.0990
Y: -0.1709 -- 0.5791
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.0102
Y: 0.1871
Product of inertia: XY: 0.0000
Radii of gyration: X: 0.1645
Y: 0.7030
Principal moments and X-Y directions about centroid:
I: 0.0102 along [1.0000 0.0000]
J: 0.1871 along [0.0000 1.0000]

OPG5072



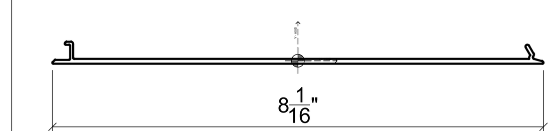
Area: 0.4697
Perimeter: 11.5019
Bounding box: X: -0.8216 -- 1.4414
Y: -1.3294 -- 0.8946
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.2845
Y: 0.1249
Product of inertia: XY: 0.0950
Radii of gyration: X: 0.7782
Y: 0.5156
Principal moments and X-Y directions about centroid:
I: 0.0806 along [0.4223 0.9065]
J: 0.3287 along [-0.9065 0.4223]

OPG6010



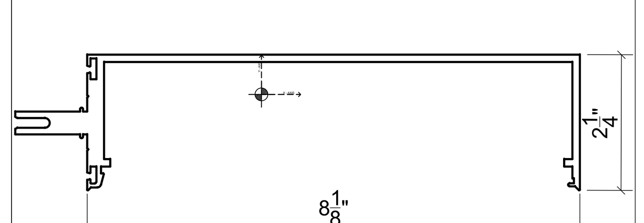
Area: 2.02796 sq in
Perimeter: 29.39038 in
Bounding box: X: -1.12500 -- 1.12500 in
Y: -2.66947 -- 2.64153 in
Centroid: X: 0.00000 in
Y: 0.00000 in
Moments of inertia: X: 5.65318 sq in sq in
Y: 1.36229 sq in sq in
Product of inertia: XY: 0.00000 sq in sq in
Radii of gyration: X: 1.66962 in
Y: 0.81961 in
Principal moments (sq in sq in) and X-Y directions about centroid:
I: 1.36229 along [0.00000 -1.00000]
J: 5.65318 along [1.00000 0.00000]

OPG3001



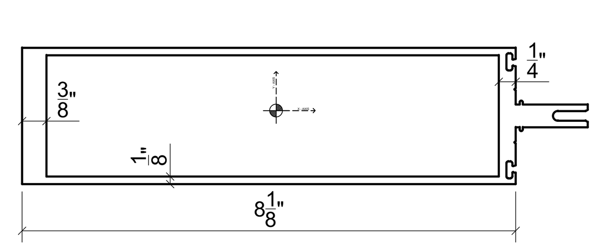
Area: 0.6699259 sq in
Perimeter: 17.4021211 in
Bounding box: X: -4.0407035 -- 4.0418701 in
Y: -0.0486372 -- 0.3133628 in
Centroid: X: 0.0000000 in
Y: 0.0000000 in
Moments of inertia: X: 0.0016035 sq in sq in
Y: 3.8399725 sq in sq in
Product of inertia: XY: -0.0044999 sq in sq in
Radii of gyration: X: 0.0489245 in
Y: 2.3941462 in
Principal moments (sq in sq in) and X-Y directions about centroid:
I: 0.0015983 along [0.9999993 -0.0011724]
J: 3.8399778 along [0.0011724 0.9999993]

OPG3078



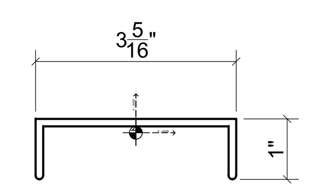
Area: 2.1167059 sq in
Perimeter: 30.5941751 in
Bounding box: X: -4.0617294 -- 5.2492706 in
Y: -1.5812190 -- 0.6546389 in
Centroid: X: 0.0000000 in
Y: 0.0000000 in
Moments of inertia: X: 0.8917094 sq in sq in
Y: 22.0988389 sq in sq in
Product of inertia: XY: 1.1851816 sq in sq in
Radii of gyration: X: 0.6490549 in
Y: 3.2311303 in
Principal moments (sq in sq in) and X-Y directions about centroid:
I: 0.8256799 along [0.9984517 0.0556263]
J: 22.1648683 along [-0.0556263 0.9984517]

OPG3011



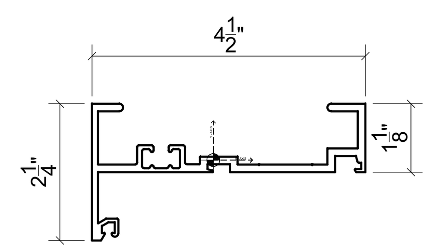
Area: 3.6824792 sq in
Perimeter: 44.4798171 in
Bounding box: X: -1.1250000 -- 1.1250000 in
Y: -5.1812182 -- 4.1927818 in
Centroid: X: 0.0000000 in
Y: 0.0000000 in
Moments of inertia: X: 38.1594158 sq in sq in
Y: 2.7007250 sq in sq in
Product of inertia: XY: 0.0000000 sq in sq in
Radii of gyration: X: 3.2190721 in
Y: 0.8563869 in
Principal moments (sq in sq in) and X-Y directions about centroid:
I: 2.7007250 along [0.0000000 -1.0000000]
J: 38.1594158 along [1.0000000 0.0000000]

TH411



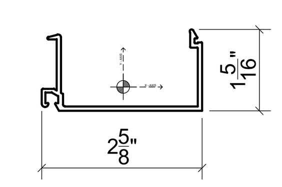
Area: 0.6279
Perimeter: 10.2427
Bounding box: X: -1.6500 -- 1.6500
Y: -0.7682 -- 0.2318
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.0483
Y: 0.9175
Product of inertia: XY: 0.0000
Radii of gyration: X: 0.2774
Y: 1.2088
Principal moments and X-Y directions about centroid:
I: 0.0483 along [1.0000 0.0000]
J: 0.9175 along [0.0000 1.0000]

TH403



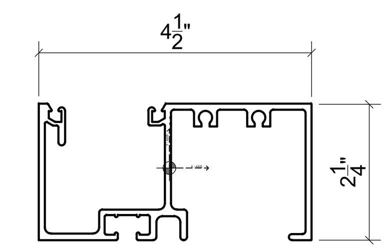
Area: 1.1829
Perimeter: 22.1066
Bounding box: X: -1.9983 -- 2.5017
Y: -1.3239 -- 0.9261
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.3021
Y: 3.2854
Product of inertia: XY: 0.3621
Radii of gyration: X: 0.5053
Y: 1.6666
Principal moments and X-Y directions about centroid:
I: 0.2587 along [0.9929 0.1188]
J: 3.3287 along [-0.1188 0.9929]

TH404



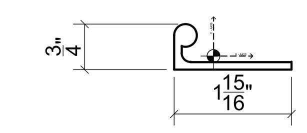
Area: 0.3956
Perimeter: 11.3853
Bounding box: X: -1.3420 -- 1.2990
Y: -0.3916 -- 0.9484
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.0701
Y: 0.3945
Product of inertia: XY: 0.0128
Radii of gyration: X: 0.4211
Y: 0.9986
Principal moments and X-Y directions about centroid:
I: 0.0696 along [0.9992 0.0395]
J: 0.3950 along [-0.0395 0.9992]

TH481



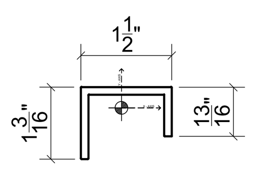
Area: 1.5483
Perimeter: 30.3173
Bounding box: X: -2.1564 -- 2.3436
Y: -1.1896 -- 1.0605
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 1.0600
Y: 3.5549
Product of inertia: XY: -0.4678
Radii of gyration: X: 0.8274
Y: 1.5152
Principal moments and X-Y directions about centroid:
I: 0.9752 along [0.9840 0.1784]
J: 3.6397 along [-0.1784 0.9840]

TH410



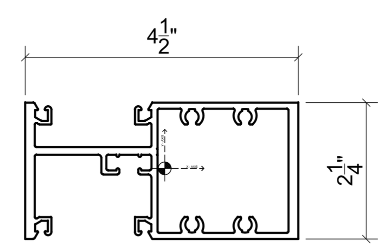
Area: 0.3956
Perimeter: 5.5741
Bounding box: X: -0.6509 -- 1.2831
Y: -0.2247 -- 0.5253
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.0207
Y: 0.1390
Product of inertia: XY: -0.0309
Radii of gyration: X: 0.2290
Y: 0.5927
Principal moments and X-Y directions about centroid:
I: 0.0132 along [0.9712 -0.2383]
J: 0.1466 along [0.2383 0.9712]

UCH13613



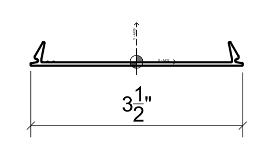
Area: 0.4060
Perimeter: 6.7222
Bounding box: X: -0.6706 -- 0.8294
Y: -0.8448 -- 0.3422
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.0452
Y: 0.1362
Product of inertia: XY: 0.0212
Radii of gyration: X: 0.3335
Y: 0.5791
Principal moments and X-Y directions about centroid:
I: 0.0405 along [0.9764 0.2159]
J: 0.1409 along [-0.2159 0.9764]

TH480



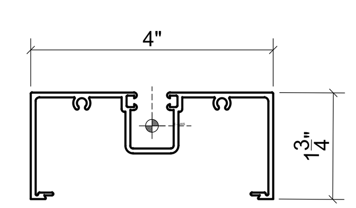
Area: 2.0219
Perimeter: 35.9187
Bounding box: X: -2.2996 -- 2.2004
Y: -1.1656 -- 1.0847
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 1.2022
Y: 4.9202
Product of inertia: XY: -0.0960
Radii of gyration: X: 0.7711
Y: 1.5599
Principal moments and X-Y directions about centroid:
I: 1.1997 along [0.9997 -0.0258]
J: 4.9226 along [0.0258 0.9997]

FF200



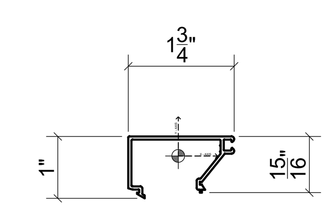
Area: 0.2520
Perimeter: 8.4812
Bounding box: X: -1.7482 -- 1.7518
Y: -0.0642 -- 0.3267
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.0017
Y: 0.3311
Product of inertia: XY: 0.0000
Radii of gyration: X: 0.0812
Y: 1.1463
Principal moments and X-Y directions about centroid:
I: 0.0017 along [1.0000 0.0000]
J: 0.3311 along [0.0000 1.0000]

M102



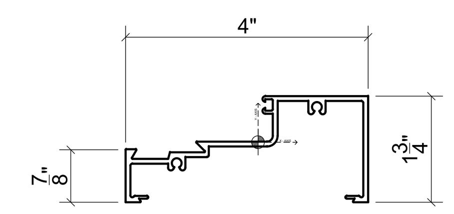
Area: 0.8594
Perimeter: 22.3404
Bounding box: X: -2.0000 -- 2.0000
Y: -1.2033 -- 0.5467
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.2524
Y: 1.6961
Product of inertia: XY: 0.0000
Radii of gyration: X: 0.5419
Y: 1.4049
Principal moments and X-Y directions about centroid:
I: 0.2524 along [1.0000 0.0000]
J: 1.6961 along [0.0000 1.0000]

HM103ST



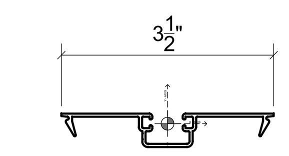
Area: 0.2198
Perimeter: 8.4912
Bounding box: X: -0.8228 -- 0.9192
Y: -0.6996 -- 0.3204
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.0228
Y: 0.0830
Product of inertia: XY: -0.0089
Radii of gyration: X: 0.3221
Y: 0.6145
Principal moments and X-Y directions about centroid:
I: 0.0215 along [0.9897 0.1429]
J: 0.0843 along [-0.1429 0.9897]

HM103



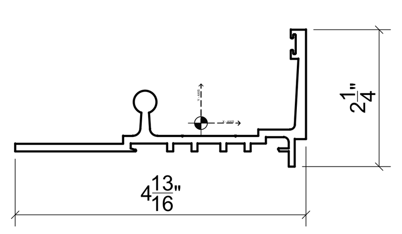
Area: 0.7399
Perimeter: 18.6182
Bounding box: X: -2.1851 -- 1.8149
Y: -0.9881 -- 0.7619
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.2034
Y: 1.4549
Product of inertia: XY: 0.2372
Radii of gyration: X: 0.5244
Y: 1.4023
Principal moments and X-Y directions about centroid:
I: 0.1600 along [0.9836 0.1802]
J: 1.4984 along [-0.1802 0.9836]

GF100



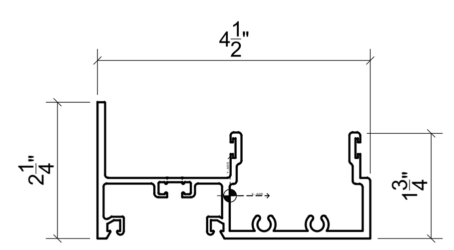
Area: 0.3087
Perimeter: 11.5606
Bounding box: X: -1.7504 -- 1.7496
Y: -0.3842 -- 0.1678
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.0101
Y: 0.3098
Product of inertia: XY: 0.0000
Radii of gyration: X: 0.1808
Y: 1.0017
Principal moments and X-Y directions about centroid:
I: 0.0101 along [1.0000 -0.0001]
J: 0.3098 along [0.0001 1.0000]

TH475



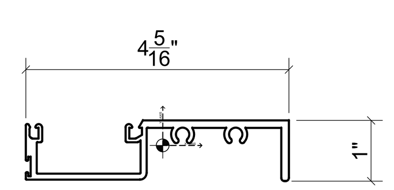
Area: 1.2010
Perimeter: 18.1364
Bounding box: X: -3.0568 -- 1.7282
Y: -0.7167 -- 1.5383
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.3272
Y: 2.5072
Product of inertia: XY: 0.4542
Radii of gyration: X: 0.5220
Y: 1.4449
Principal moments and X-Y directions about centroid:
I: 0.2364 along [0.9806 0.1961]
J: 2.5981 along [-0.1961 0.9806]

TH438



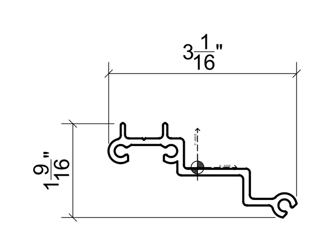
Area: 1.3970
Perimeter: 27.1169
Bounding box: X: -2.1879 -- 2.3121
Y: -0.7066 -- 1.5434
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.4625
Y: 3.3737
Product of inertia: XY: -0.3874
Radii of gyration: X: 0.5754
Y: 1.5540
Principal moments and X-Y directions about centroid:
I: 0.4118 along [0.9916 -0.1297]
J: 3.4244 along [0.1297 0.9916]

TH437



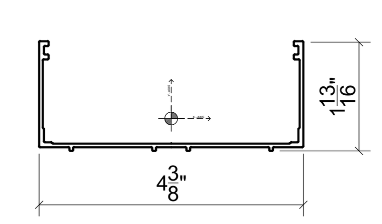
Area: 0.9182
Perimeter: 17.9115
Bounding box: X: -2.2570 -- 2.0780
Y: -0.5868 -- 0.4132
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.1117
Y: 1.8282
Product of inertia: XY: 0.2057
Radii of gyration: X: 0.3487
Y: 1.4110
Principal moments and X-Y directions about centroid:
I: 0.0874 along [0.9931 0.1173]
J: 1.8525 along [-0.1173 0.9931]

103 CLIP



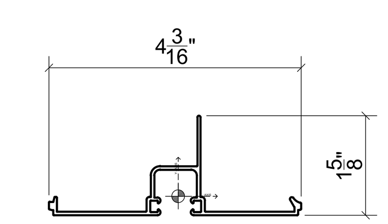
Area: 0.5839
Perimeter: 10.9398
Bounding box: X: -1.4634 -- 1.6291
Y: -0.8238 -- 0.7292
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.0913
Y: 0.4768
Product of inertia: XY: -0.1852
Radii of gyration: X: 0.3953
Y: 0.9036
Principal moments and X-Y directions about centroid:
I: 0.0167 along [0.9277 -0.3734]
J: 0.5513 along [0.3734 0.9277]

HC120



Area: 0.5302
Perimeter: 16.4901
Bounding box: X: -2.1760 -- 2.1760
Y: -0.5352 -- 1.2768
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.1892
Y: 1.5875
Product of inertia: XY: 0.0000
Radii of gyration: X: 0.5973
Y: 1.7303
Principal moments and X-Y directions about centroid:
I: 0.1892 along [1.0000 0.0000]
J: 1.5875 along [0.0000 1.0000]

HCF121



Area: 0.4503
Perimeter: 15.0030
Bounding box: X: -2.1325 -- 2.0275
Y: -0.3131 -- 1.3309
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.0692
Y: 0.5375
Product of inertia: XY: 0.0156
Radii of gyration: X: 0.3921
Y: 1.0926
Principal moments and X-Y directions about centroid:
I: 0.0687 along [0.9994 0.0333]
J: 0.5380 along [-0.0333 0.9994]

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-119686 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/14/2019

agency

tBP
architecture
planning
interiors

tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
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architect

REGISTERED PROFESSIONAL ENGINEER
CRAIG M. HORNER
No. 84674
CIVIL
STATE OF CALIFORNIA
October 07, 2019

consultant

COMPTON COLLEGE STUDENT SERVICES BLDG.

COMPTON COMMUNITY COLLEGE DISTRICT
1111 E. ARTESIA BLVD.
COMPTON, CA 90221

owner

tBP project number: 20987.00
file name:
drawn by: checked by:
date: 9.2.2019
rev: date: description:

drawing title:

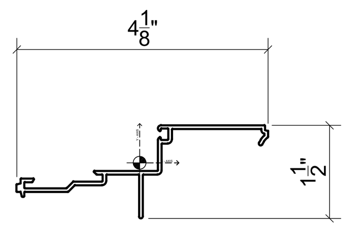
SECTION PROPERTIES

drawing no.:

CW 0.03

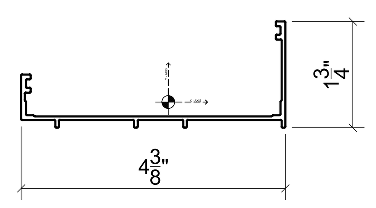
Xref Y:\AAE\2018\AAE288 Orange Coast College_Language Art-Social Scients Bldg\01 - Drawings and Specs\03 - Shop Drawings\Architect's titleblock 11.20.dwg

SCF123



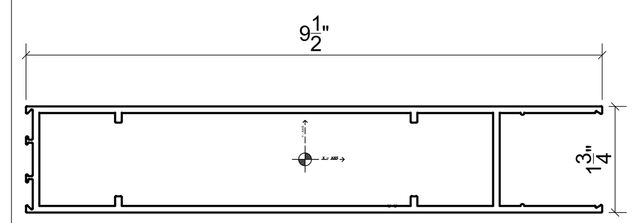
Area: 0.4100
Perimeter: 13.5786
Bounding box: X: -2.0310 -- 2.1150
Y: -0.9147 -- 0.6153
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.0806
Y: 0.5442
Product of inertia: XY: 0.1663
Radii of gyration: X: 0.4434
Y: 1.1521
Principal moments and X-Y directions about centroid:
I: 0.0271 along [0.9520 0.3062]
J: 0.5977 along [-0.3062 0.9520]

SC122



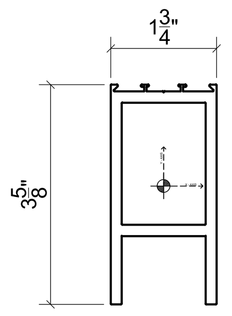
Area: 0.4778
Perimeter: 14.7570
Bounding box: X: -2.4242 -- 1.9278
Y: -0.4211 -- 1.3289
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.0994
Y: 1.2825
Product of inertia: XY: 0.1311
Radii of gyration: X: 0.4560
Y: 1.6383
Principal moments and X-Y directions about centroid:
I: 0.0850 along [0.9941 0.1088]
J: 1.2968 along [-0.1088 0.9941]

DRB950



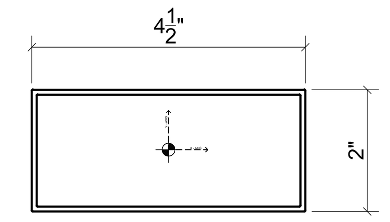
Area: 2.4868
Perimeter: 46.3359
Bounding box: X: -4.6014 -- 4.8986
Y: -0.8751 -- 0.8749
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 1.4932
Y: 21.2535
Product of inertia: XY: 0.0004
Radii of gyration: X: 0.7749
Y: 2.9234
Principal moments and X-Y directions about centroid:
I: 1.4932 along [1.0000 0.0000]
J: 21.2535 along [0.0000 1.0000]

31330HVY



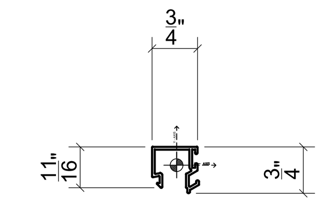
Area: 1.8176
Perimeter: 20.8868
Bounding box: X: -0.8700 -- 0.8700
Y: -1.9517 -- 1.6733
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 2.1400
Y: 0.8697
Product of inertia: XY: 0.0000
Radii of gyration: X: 1.0851
Y: 0.6917
Principal moments and X-Y directions about centroid:
I: 0.8697 along [0.0000 -1.0000]
J: 2.1400 along [1.0000 0.0000]

T245



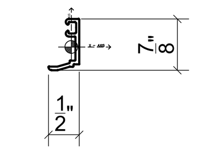
Area: 1.0144
Perimeter: 25.3085
Bounding box: X: -2.2500 -- 2.2500
Y: -1.0000 -- 1.0000
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.7470
Y: 2.6530
Product of inertia: XY: 0.0000
Radii of gyration: X: 0.8581
Y: 1.6172
Principal moments and X-Y directions about centroid:
I: 0.7470 along [1.0000 0.0000]
J: 2.6530 along [0.0000 1.0000]

DS45



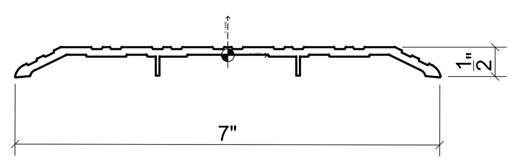
Area: 0.1238
Perimeter: 5.4729
Bounding box: X: -0.4063 -- 0.3666
Y: -0.4630 -- 0.3030
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.0070
Y: 0.0093
Product of inertia: XY: -0.0009
Radii of gyration: X: 0.2369
Y: 0.2737
Principal moments and X-Y directions about centroid:
I: 0.0066 along [0.9421 -0.3354]
J: 0.0096 along [0.3354 0.9421]

DS001



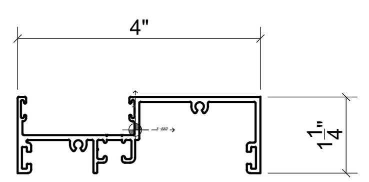
Area: 0.0923
Perimeter: 3.2699
Bounding box: X: -0.3766 -- 0.1284
Y: -0.3842 -- 0.4639
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.0074
Y: 0.0015
Product of inertia: XY: 0.0017
Radii of gyration: X: 0.2838
Y: 0.1285
Principal moments and X-Y directions about centroid:
I: 0.0011 along [0.2525 0.9676]
J: 0.0079 along [-0.9676 0.2525]

T700



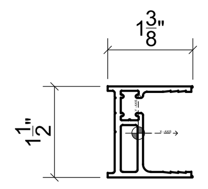
Area: 0.9976
Perimeter: 16.5173
Bounding box: X: -3.5016 -- 3.5015
Y: -0.3657 -- 0.1333
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.0135
Y: 4.2496
Product of inertia: XY: 0.0000
Radii of gyration: X: 0.1164
Y: 2.0639
Principal moments and X-Y directions about centroid:
I: 0.0135 along [1.0000 0.0000]
J: 4.2496 along [0.0000 1.0000]

00500910



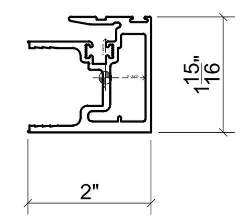
Area: 0.7690
Perimeter: 20.3172
Bounding box: X: -1.9338 -- 2.0662
Y: -0.7090 -- 0.5410
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.1107
Y: 1.4272
Product of inertia: XY: -0.1241
Radii of gyration: X: 0.3794
Y: 1.3623
Principal moments and X-Y directions about centroid:
I: 0.0991 along [0.9957 0.0930]
J: 1.4388 along [-0.0930 0.9957]

0500939



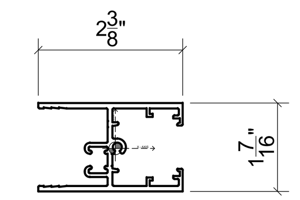
Area: 0.4933
Perimeter: 11.1806
Bounding box: X: -0.5029 -- 0.8971
Y: -0.7302 -- 0.7698
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.1524
Y: 0.0613
Product of inertia: XY: 0.0010
Radii of gyration: X: 0.5558
Y: 0.3526
Principal moments and X-Y directions about centroid:
I: 0.1524 along [0.9999 0.0107]
J: 0.0613 along [-0.0107 0.9999]

500932



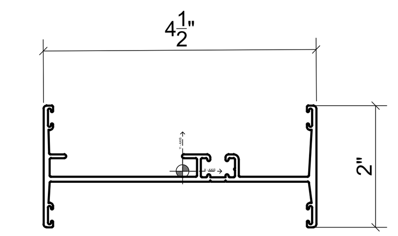
Area: 1.0273
Perimeter: 18.4602
Bounding box: X: -1.2765 -- 0.7485
Y: -0.8989 -- 1.0074
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.4728
Y: 0.2804
Product of inertia: XY: -0.0374
Radii of gyration: X: 0.6784
Y: 0.5224
Principal moments and X-Y directions about centroid:
I: 0.4798 along [0.9829 -0.1843]
J: 0.2734 along [0.1843 0.9829]

500951



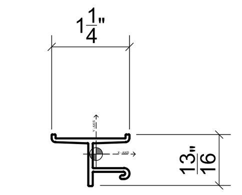
Area: 0.6919
Perimeter: 17.8038
Bounding box: X: -1.2681 -- 1.1069
Y: -0.7111 -- 0.7489
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.2375
Y: 0.2626
Product of inertia: XY: -0.0047
Radii of gyration: X: 0.5859
Y: 0.6160
Principal moments and X-Y directions about centroid:
I: 0.2367 along [0.9842 0.1768]
J: 0.2634 along [-0.1768 0.9842]

500919



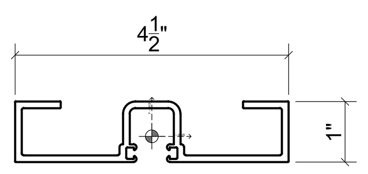
Area: 0.8383
Perimeter: 21.6827
Bounding box: X: -2.2931 -- 2.2069
Y: -0.9220 -- 1.0780
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.1433
Y: 2.5293
Product of inertia: XY: 0.0021
Radii of gyration: X: 0.4134
Y: 1.7370
Principal moments and X-Y directions about centroid:
I: 0.1433 along [1.0000 -0.0009]
J: 2.5293 along [0.0009 1.0000]

500975



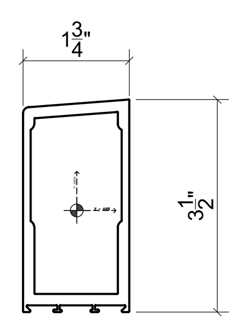
Area: 0.0812
Perimeter: 2.8174
Bounding box: X: -0.2547 -- 0.3796
Y: -0.2454 -- 0.2826
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.0015
Y: 0.0028
Product of inertia: XY: 0.0015
Radii of gyration: X: 0.1379
Y: 0.1844
Principal moments and X-Y directions about centroid:
I: 0.0006 along [0.8321 -0.5546]
J: 0.0037 along [0.5546 0.8321]

M459



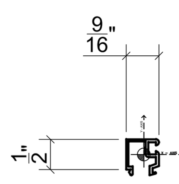
Area: 1.0406
Perimeter: 19.7642
Bounding box: X: -2.2500 -- 2.2500
Y: -0.4229 -- 0.5771
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.1473
Y: 2.2891
Product of inertia: XY: 0.0000
Radii of gyration: X: 0.3762
Y: 1.4832
Principal moments and X-Y directions about centroid:
I: 0.1473 along [1.0000 0.0000]
J: 2.2891 along [0.0000 1.0000]

DSO901H



Area: 1.6048
Perimeter: 20.1716
Bounding box: X: -0.8868 -- 0.8632
Y: -1.6738 -- 1.8262
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 2.4301
Y: 0.7596
Product of inertia: XY: 0.0365
Radii of gyration: X: 1.2306
Y: 0.6880
Principal moments and X-Y directions about centroid:
I: 0.7588 along [0.0218 0.9998]
J: 2.4309 along [-0.9998 0.0218]

DS002



Area: 0.0878
Perimeter: 4.2259
Bounding box: X: -0.2887 -- 0.2493
Y: -0.3422 -- 0.2518
Centroid: X: 0.0000
Y: 0.0000
Moments of inertia: X: 0.0031
Y: 0.0031
Product of inertia: XY: 0.0000
Radii of gyration: X: 0.1872
Y: 0.1893
Principal moments and X-Y directions about centroid:
I: 0.0031 along [0.9766 -0.2149]
J: 0.0031 along [0.2149 0.9766]

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APP. 03-119686 INC:
REVIEWED FOR
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DATE: 10/14/2019

agency

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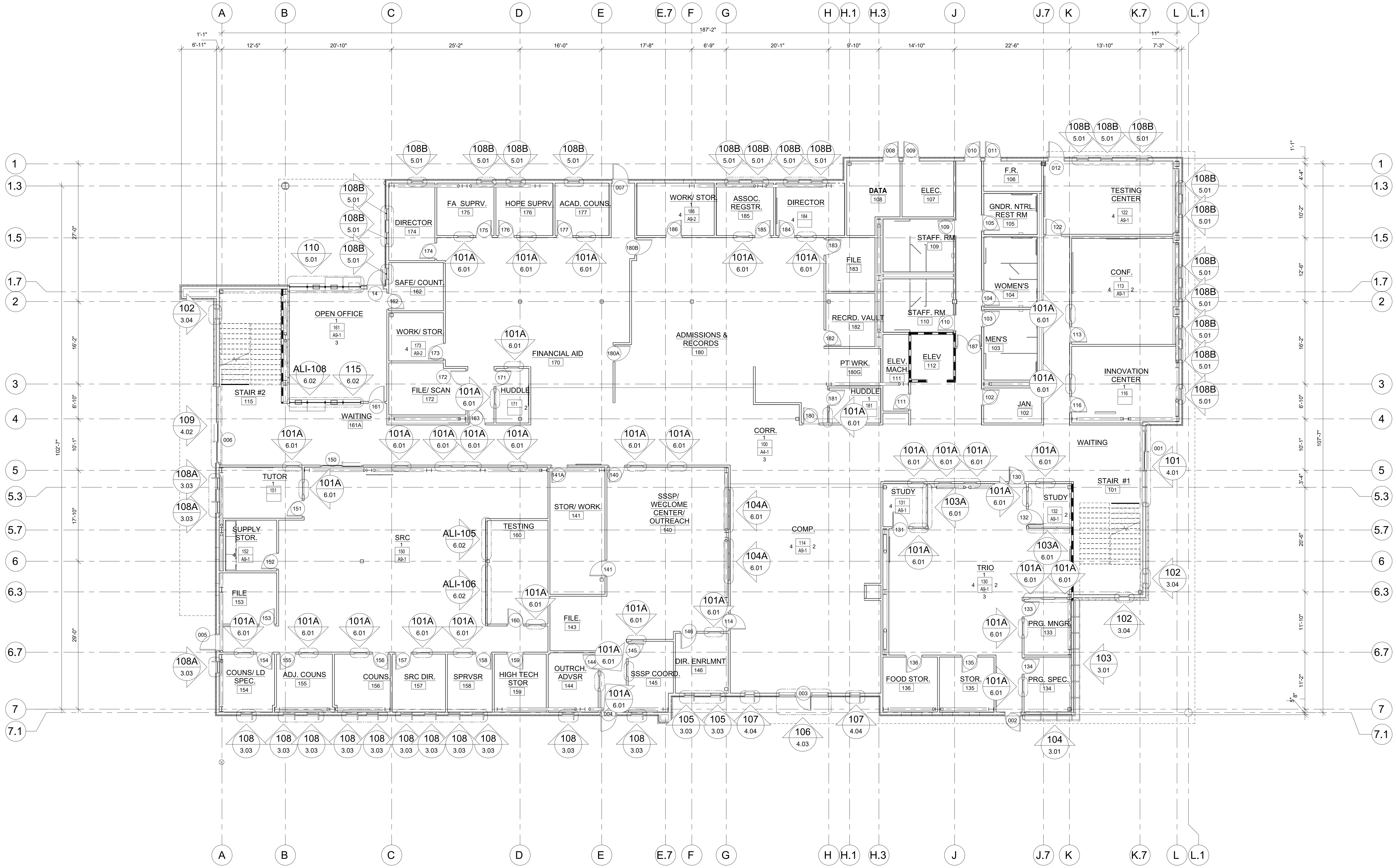
COMPTON, CA 90221

owner

tBP project number: 20987.00
file name:
drawn by: checked by:
date: 9.2.2019
rev: date: description:

drawing title:
SECTION PROPERTIES

drawing no.:
CW 0.04



1 FIRST FLOOR PLAN

ARCH REF: 1/ A1.1

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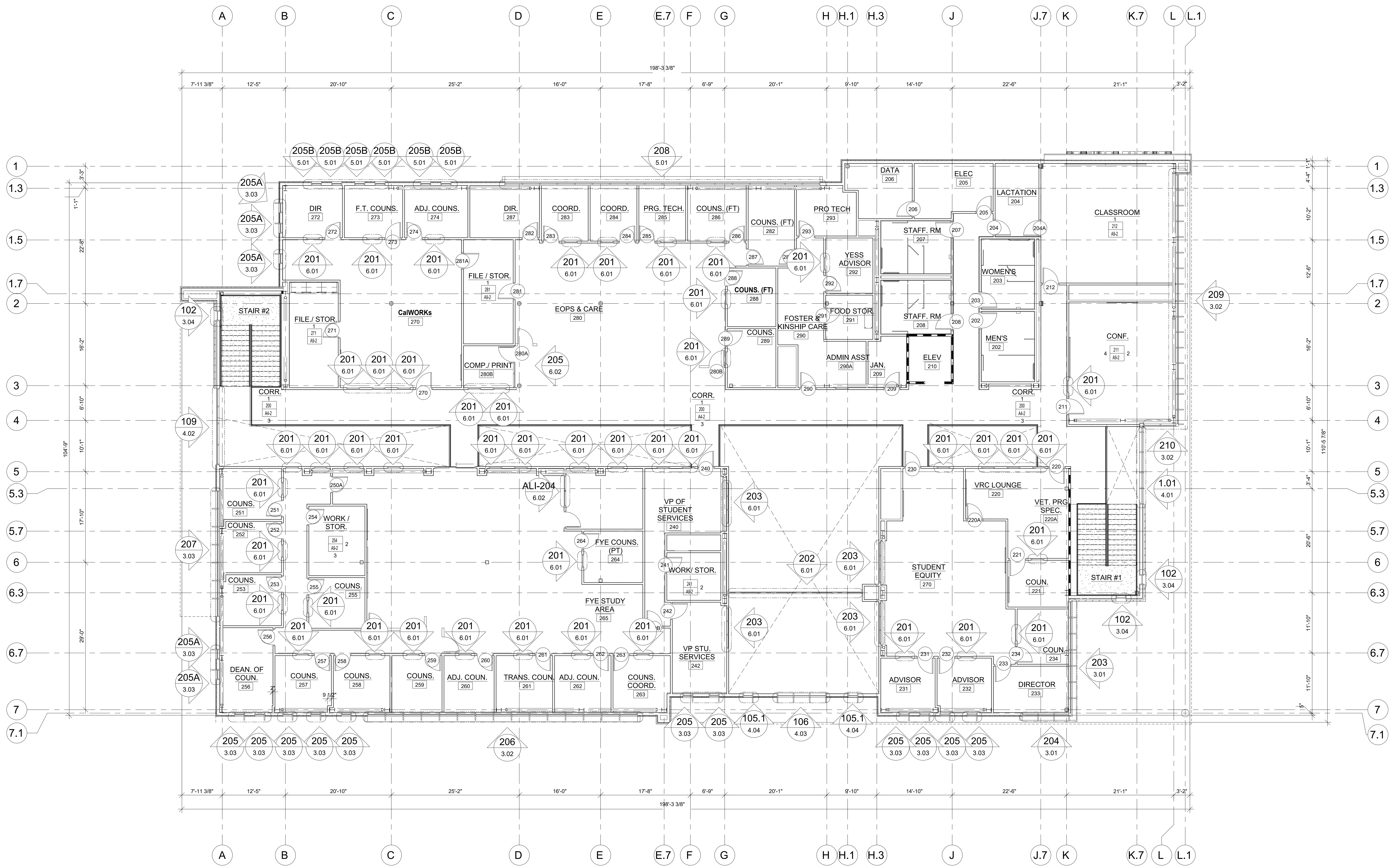
date:	9.2.2019
rev: date:	description:

drawing title:

FIRST FLOOR PLAN

drawing no.:

CW 1.01



1 SECOND FLOOR PLAN
ARCH REF: 1/ A1.2

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drawn by:	checked by:
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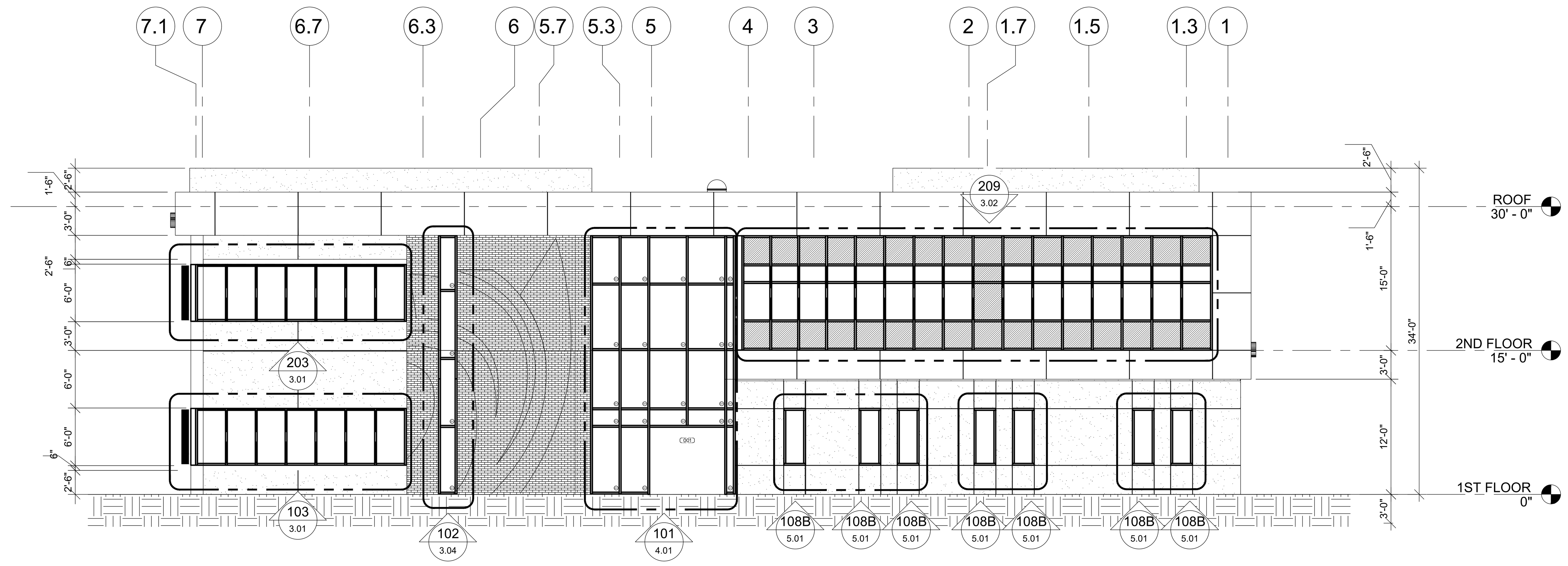
rev: date:	description:

drawing title:

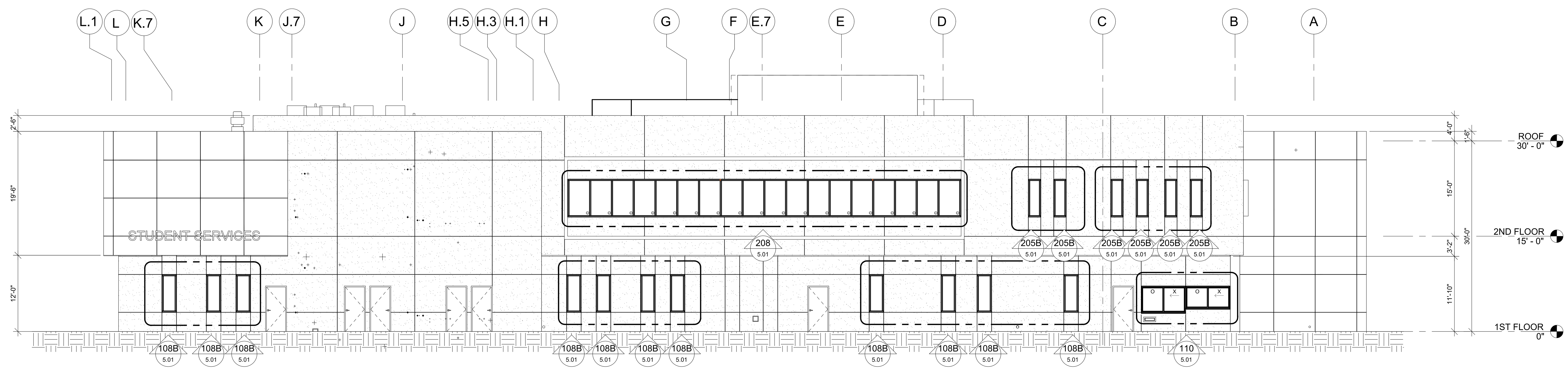
SECOND FLOOR PLAN

drawing no.:

CW 1.02



2 EAST ELEVATION
Arch Ref: 2/A4.1



1 NORTH ELEVATION
Arch Ref: 1/A4.1

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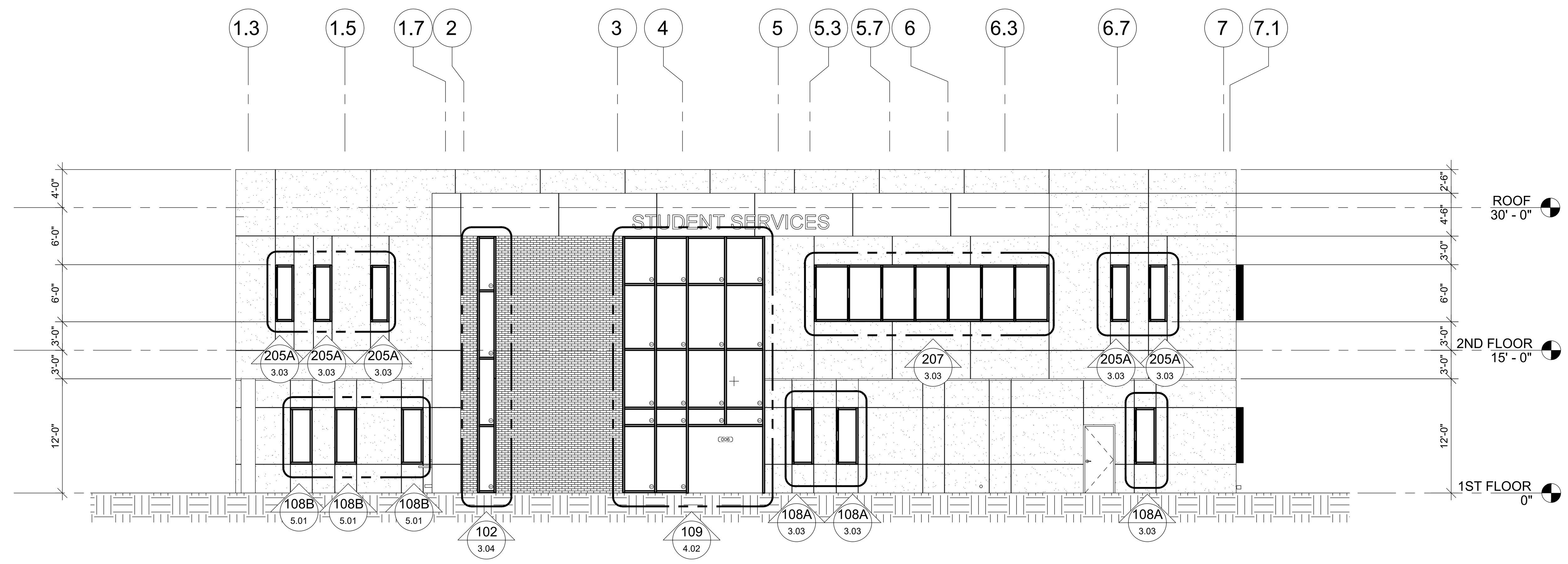
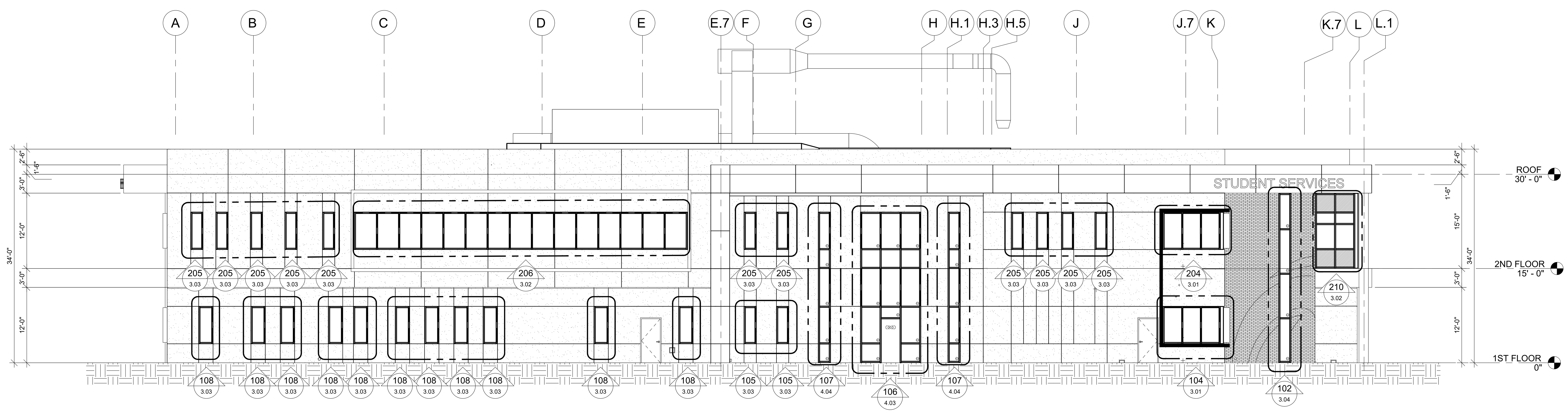
tBP project number: 20987.00
file name:
drawn by: checked by:
date: 9.2.2019
rev: date: description:

drawing title:
BUILDING ELEVATIONS

drawing no.:
CW 2.01



2 WEST ELEVATION
Arch Ref: 2/A4.2



1 SOUTH ELEVATION
Arch Ref: 1/A4.2

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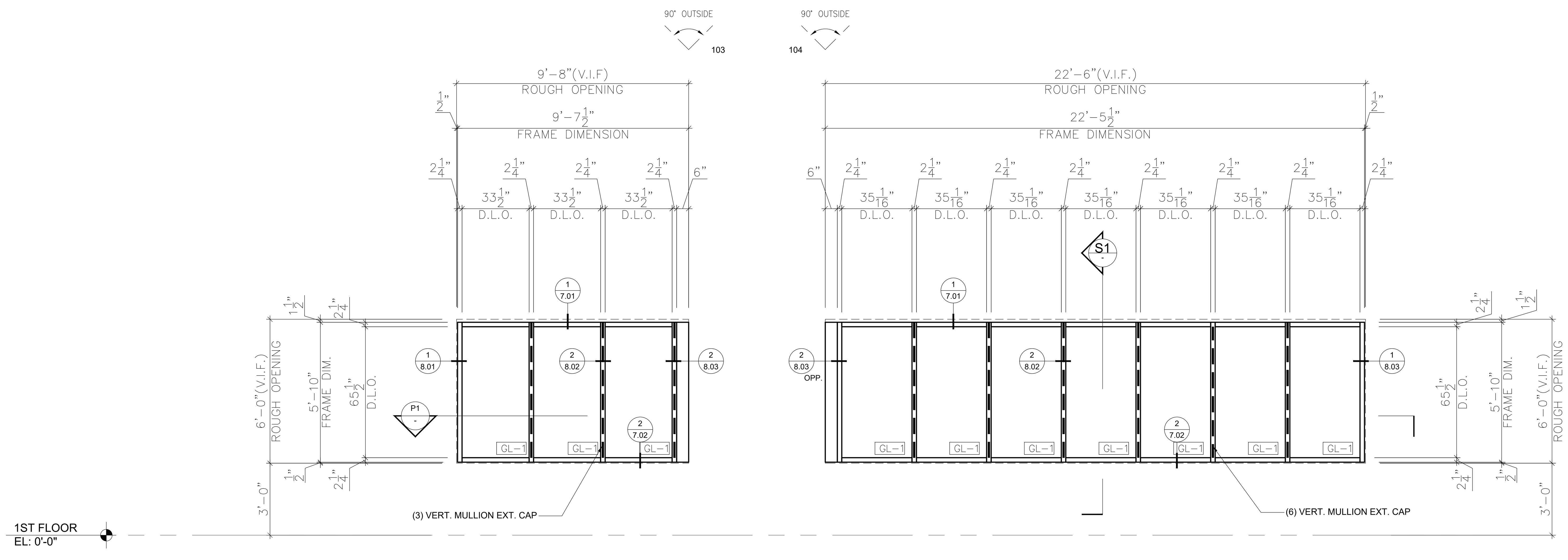
tBP project number: 20987.00
file name:
drawn by: checked by:
date: 9.2.2019
rev: date: description:

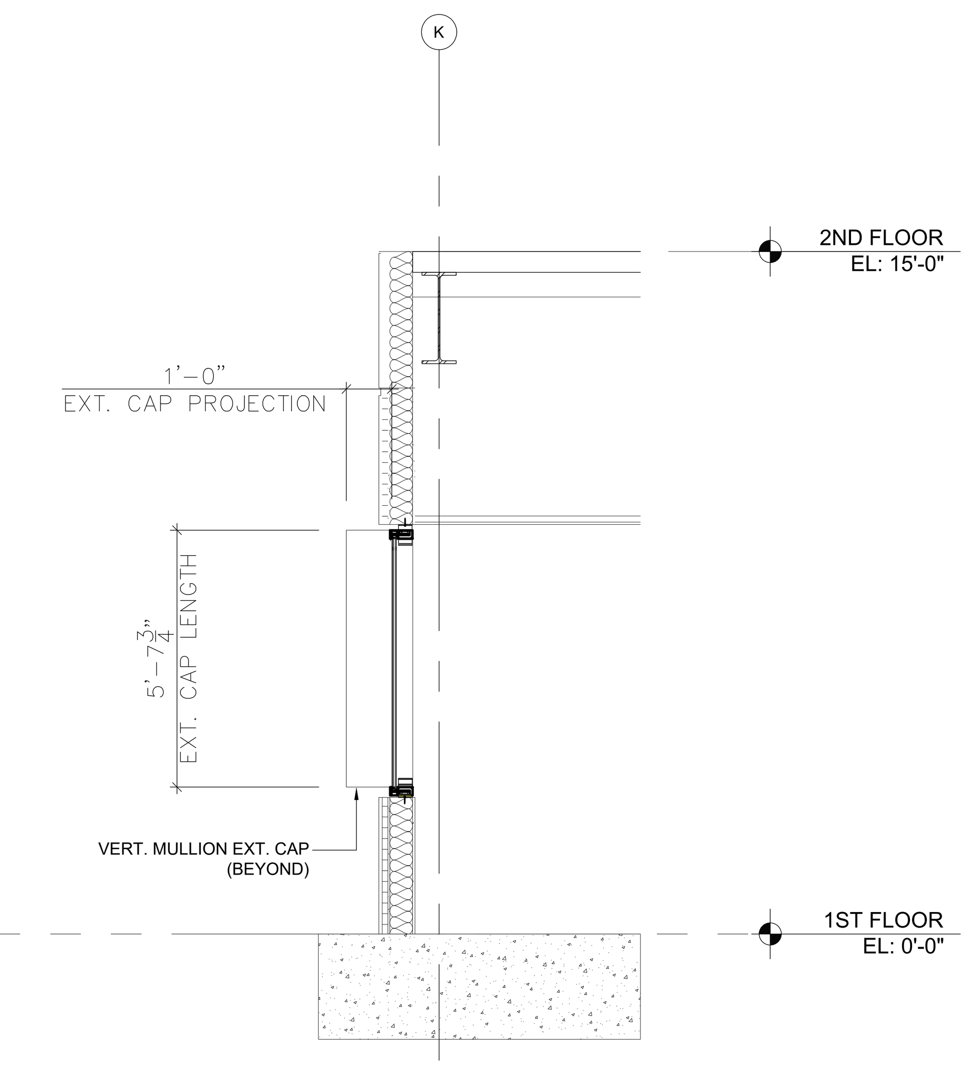
drawing title:

BUILDING ELEVATIONS

drawing no.:

CW 2.02

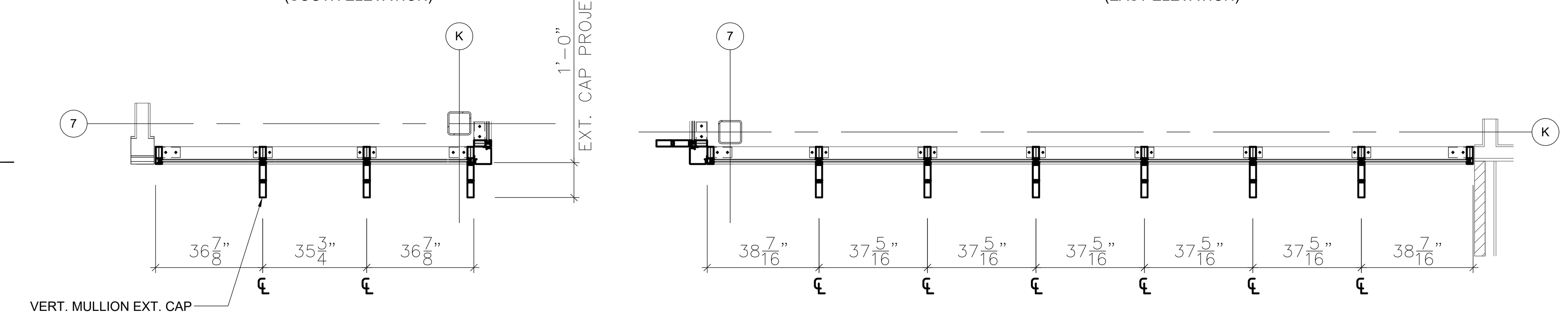




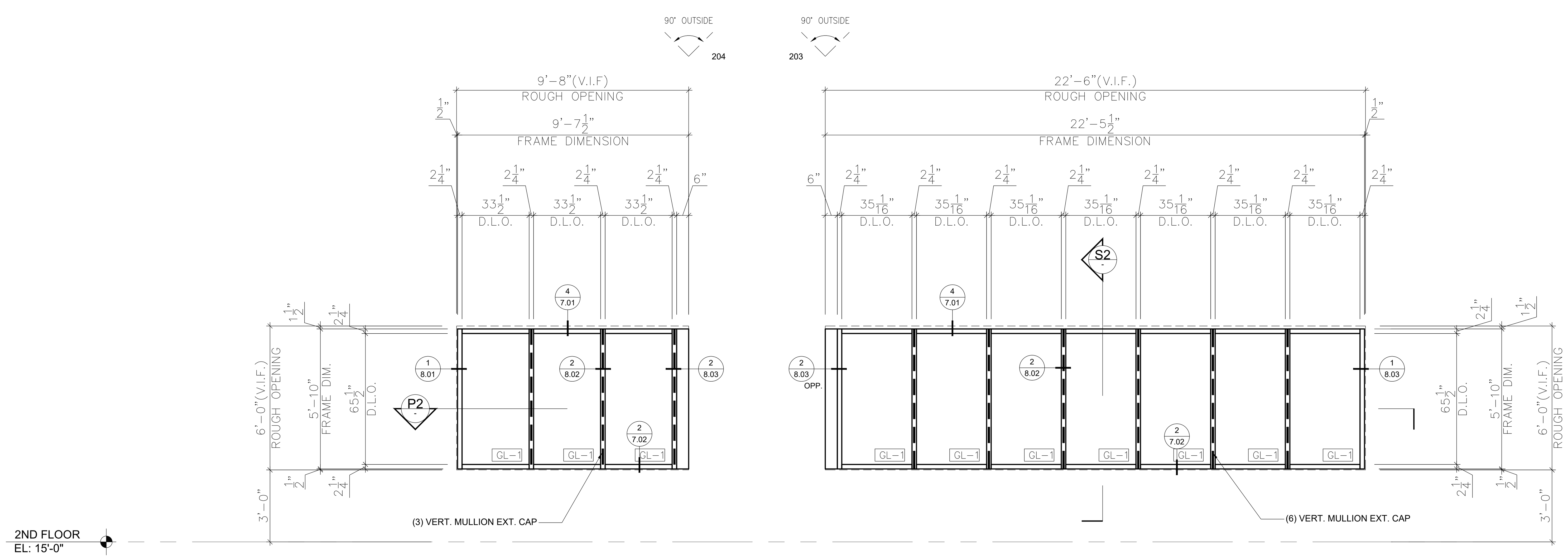
104 CURTAIN WALL ELEVATION
(Ref. Arch : AL104/8.52)
- FRAME : 2 1/4" x 6" OPG-6000 SERIES
- GLASS : 1" GLASS
- Q'TY : 1 SET @ PRG. SPEC. RM 134 (SOUTH ELEVATION)

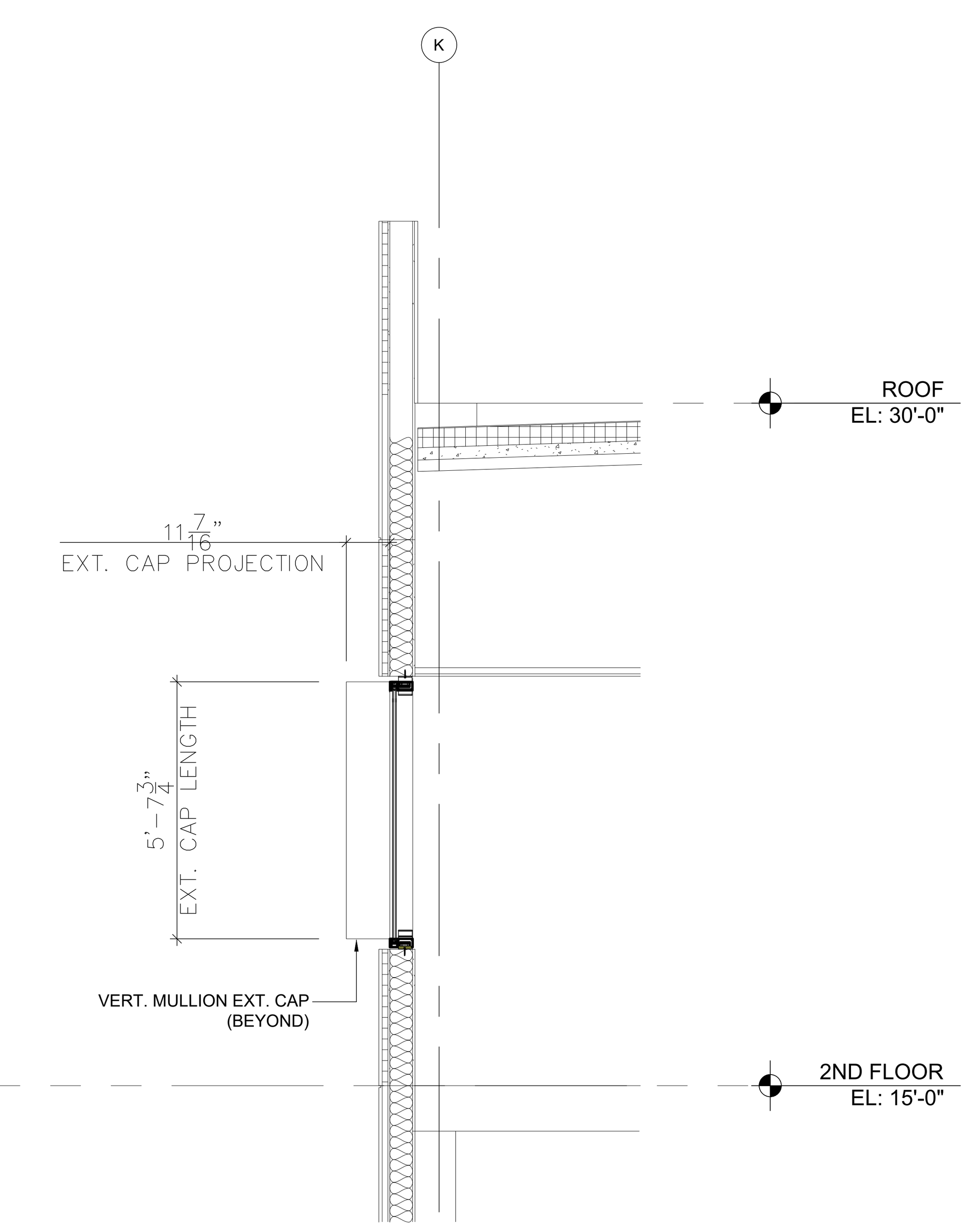
103 CURTAIN WALL ELEVATION
(Ref. Arch : AL103/8.52)
- FRAME : 2 1/4" x 6" OPG-6000 SERIES
- GLASS : 1" GLASS
- Q'TY : 1 SET @ PRG. MNGR. RM 133 (EAST ELEVATION)

S1 WALL SECTION
Ref. Arch : 2 / A6.3



P1 PLAN SECTION
Ref. Arch : 1 / A1.1

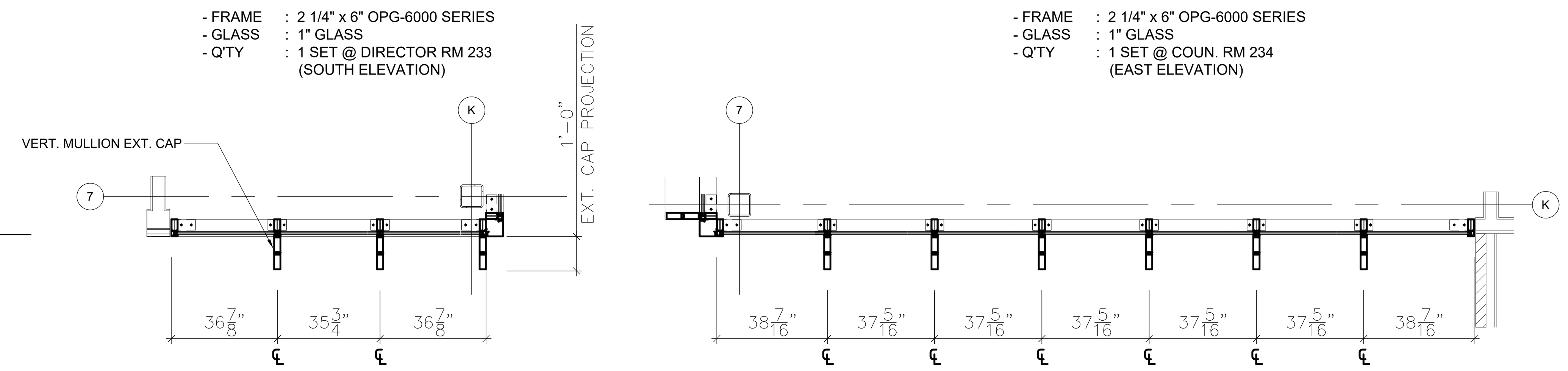




204 CURTAIN WALL ELEVATION
(Ref. Arch : AL204/8.53)
- FRAME : 2 1/4" x 6" OPG-6000 SERIES
- GLASS : 1" GLASS
- Q'TY : 1 SET @ DIRECTOR RM 233 (SOUTH ELEVATION)

203 CURTAIN WALL ELEVATION
(Ref. Arch : AL203/8.53)
- FRAME : 2 1/4" x 6" OPG-6000 SERIES
- GLASS : 1" GLASS
- Q'TY : 1 SET @ COUN. RM 234 (EAST ELEVATION)

S2 WALL SECTION
Ref. Arch : 2 / A6.3



P2 PLAN SECTION
Ref. Arch : 1 / A1.2

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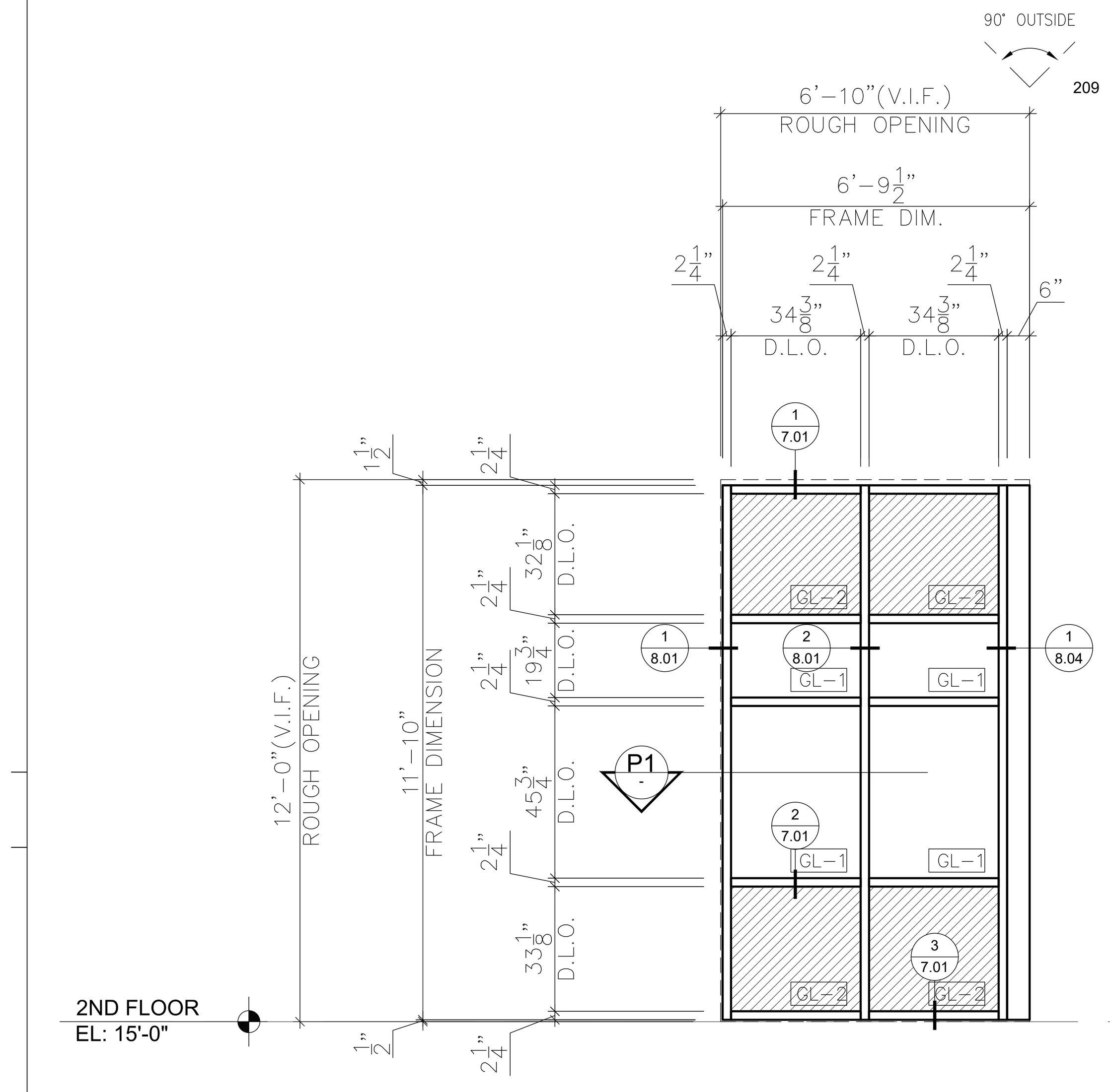
owner

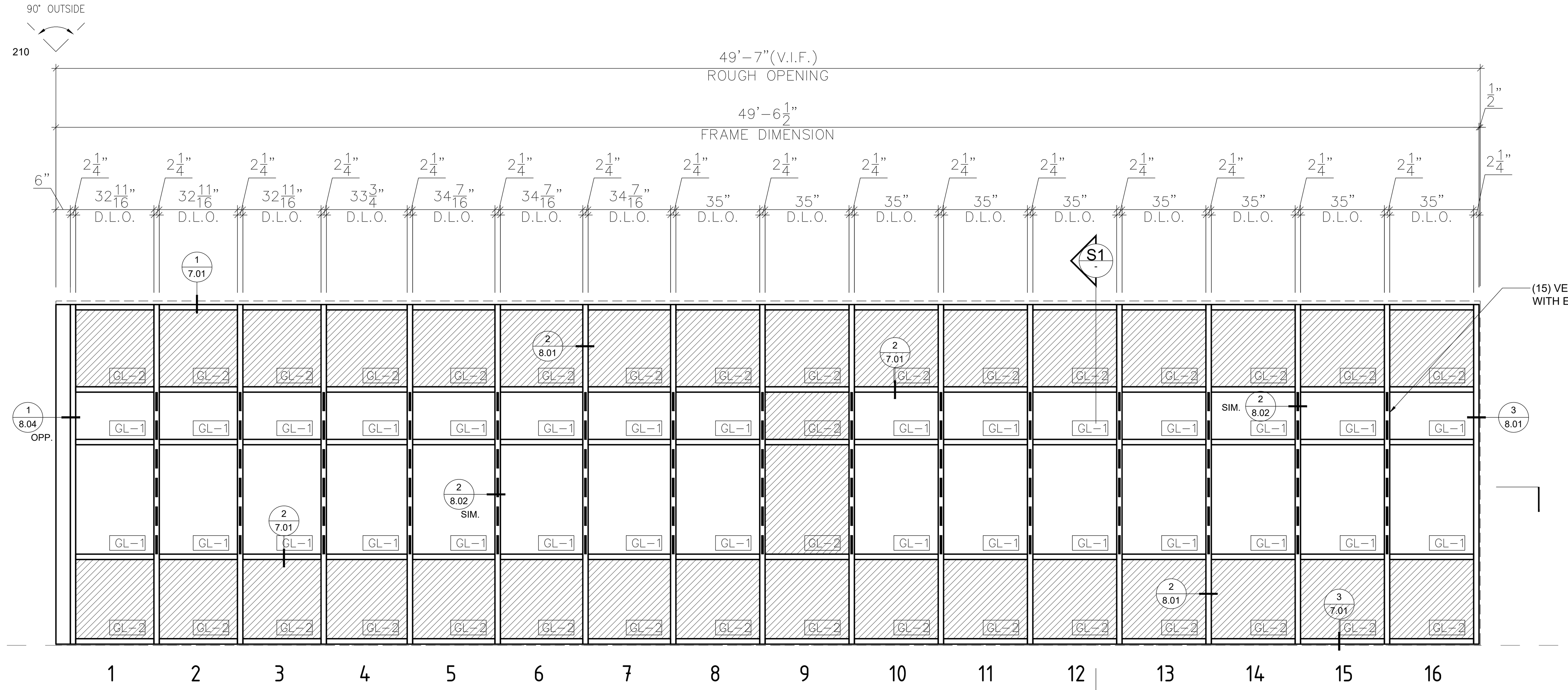
tBP project number: 20987.00
file name:
drawn by: checked by:
date: 9.2.2019
rev: date: description:

drawing title:
ELEVATIONS
OPG-6000

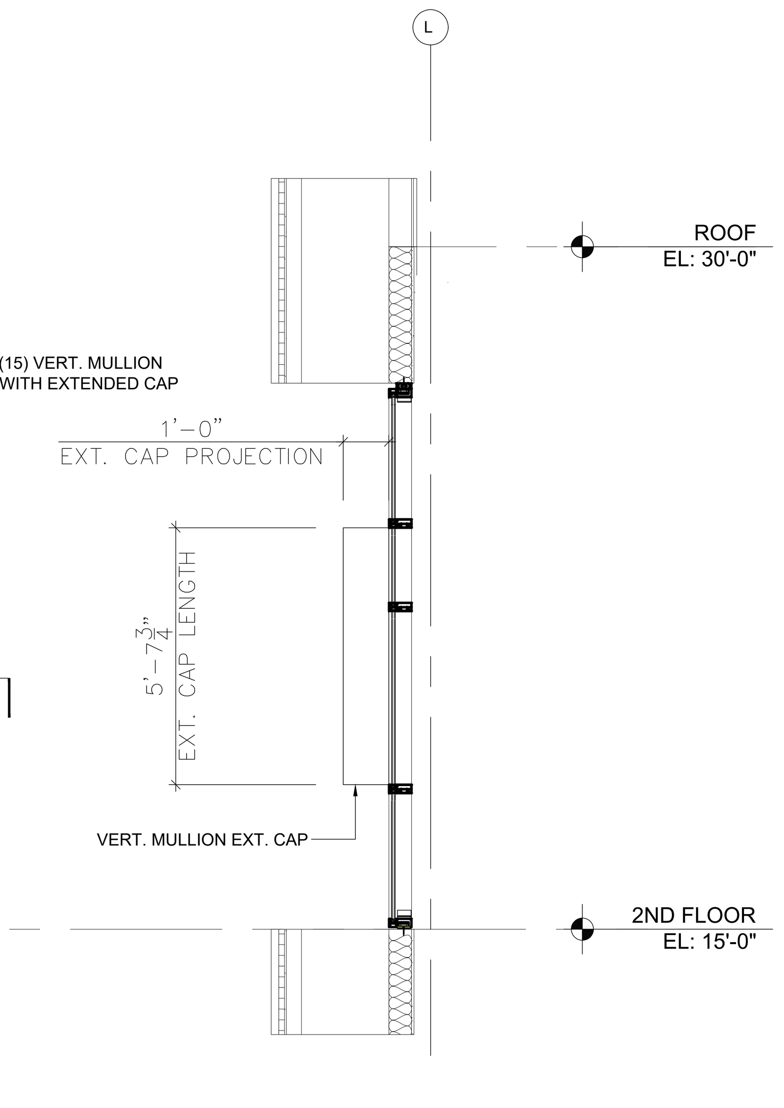
drawing no.:
CW 3.01



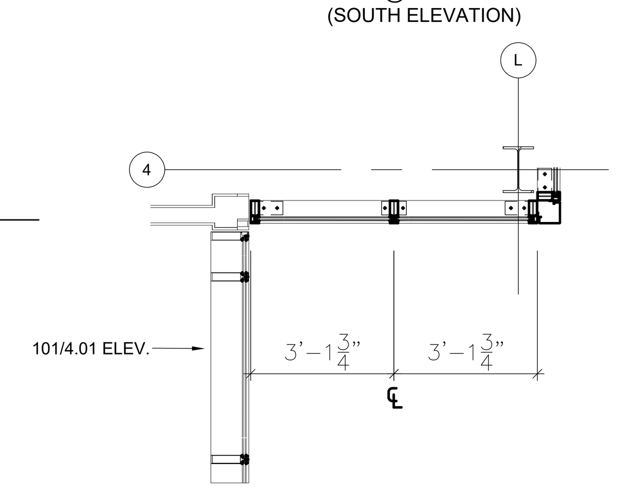
210 CURTAIN WALL ELEVATION
(Ref. Arch : AL2210/8.53)
- FRAME : 2 1/4" x 6" OPG-6000 SERIES
- GLASS : 1" GLASS
- Q'TY : 1 SET @ CONF. RM 211 (SOUTH ELEVATION)



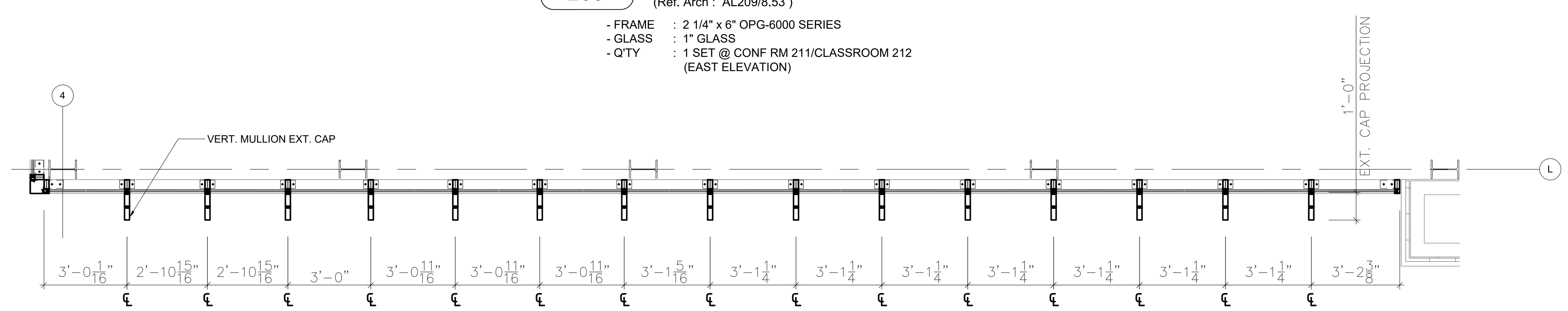
209 CURTAIN WALL ELEVATION
(Ref. Arch : AL209/8.53)
- FRAME : 2 1/4" x 6" OPG-6000 SERIES
- GLASS : 1" GLASS
- Q'TY : 1 SET @ CONF RM 211/CLASSROOM 212 (EAST ELEVATION)

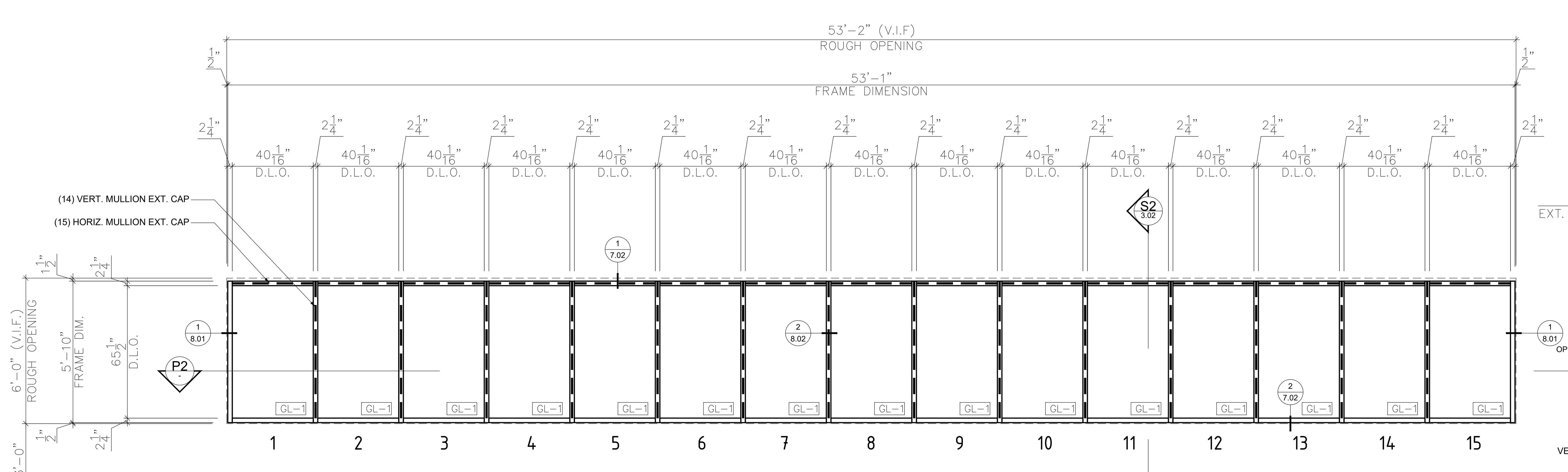


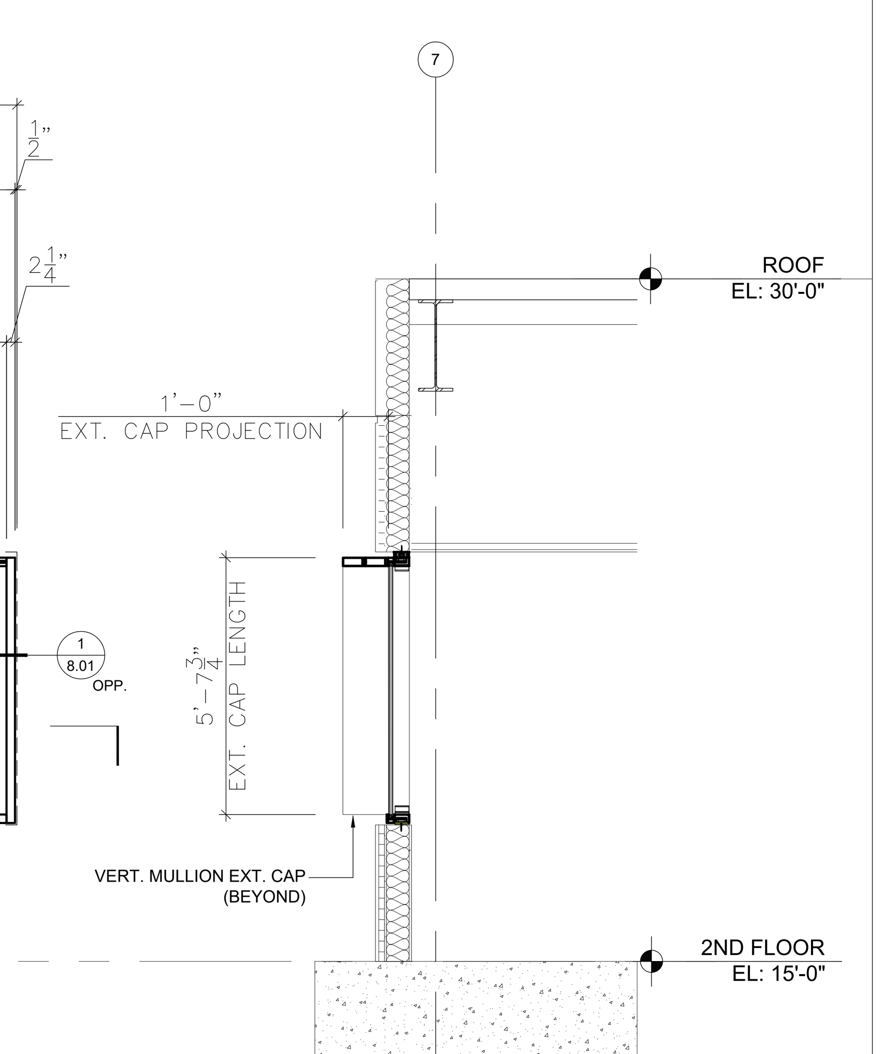
S1 WALL SECTION
Ref. Arch : 2 / A5.2



P1 PLAN SECTION
Ref. Arch : 1 / A1.2

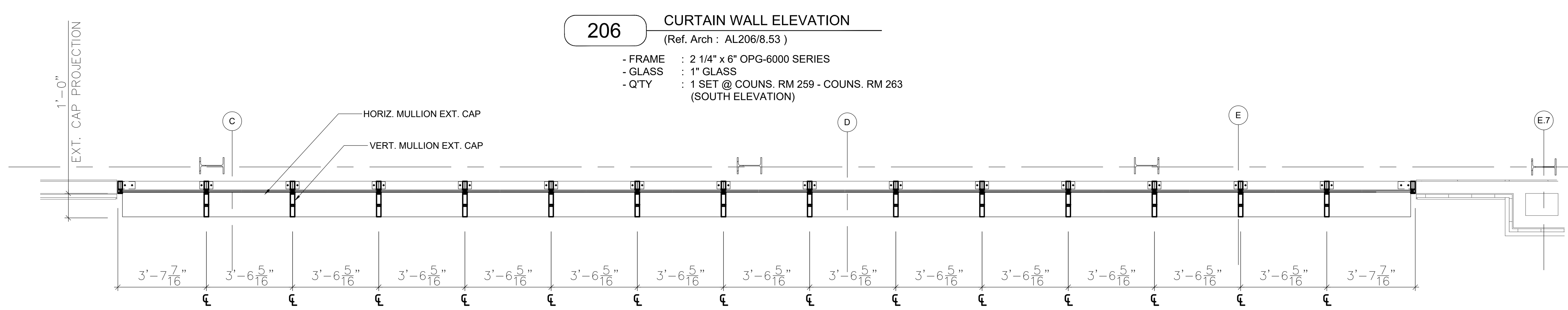






206 CURTAIN WALL ELEVATION
(Ref. Arch : AL206/8.53)
- FRAME : 2 1/4" x 6" OPG-6000 SERIES
- GLASS : 1" GLASS
- Q'TY : 1 SET @ COUNS. RM 259 - COUNS. RM 263 (SOUTH ELEVATION)

S2 WALL SECTION
Ref. Arch : 2 / A6.3



P2 PLAN SECTION
Ref. Arch : 1 / A1.2

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October 07, 2019

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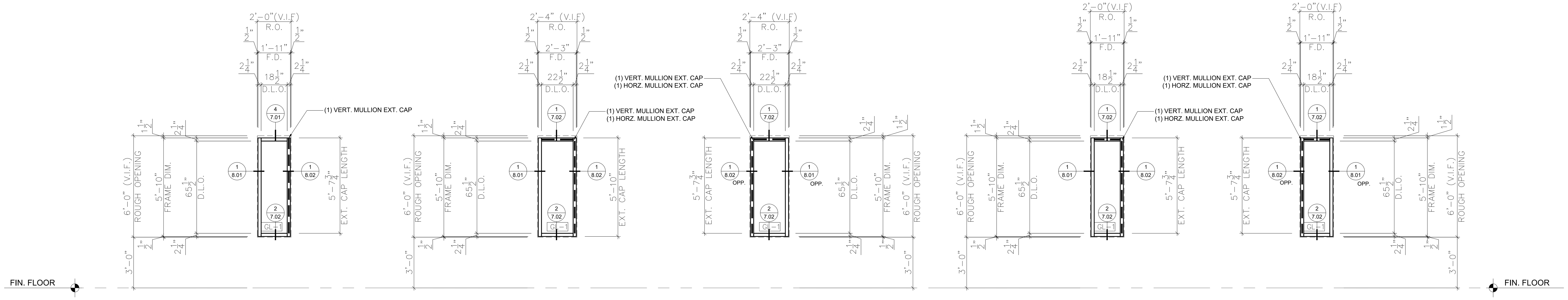
tBP project number: 20987.00
file name:
drawn by: checked by:
date: 9.2.2019
rev: date: description:

drawing title:
ELEVATIONS
OPG-6000

drawing no.:
CW 3.02



105 CURTAIN WALL ELEVATION
(Ref. Arch : -)

- FRAME : 2 1/4" x 6" OPG-6000 SERIES
- GLASS : 1" GLASS
- Q'TY : (SEE TABLE FOR LOCATIONS)

DISTRIBUTION

FLOOR	ELEVATION				Q'TY (SETS)
	NORTH	EAST	SOUTH	WEST	
1ST	0	0	2	0	2
QTY TOTAL					2

108 CURTAIN WALL ELEVATION
(Ref. Arch : AL108/8.52)

- FRAME : 2 1/4" x 6" OPG-6000 SERIES
- GLASS : 1" GLASS
- Q'TY : (SEE TABLE FOR LOCATIONS)

DISTRIBUTION

FLOOR	ELEVATION				Q'TY (SETS)
	NORTH	EAST	SOUTH	WEST	
1ST	0	0	11	0	11
QTY TOTAL					11

108A CURTAIN WALL ELEVATION
(Ref. Arch : AL108/8.52)

- FRAME : 2 1/4" x 6" OPG-6000 SERIES
- GLASS : 1" GLASS
- Q'TY : (SEE TABLE FOR LOCATIONS)

DISTRIBUTION

FLOOR	ELEVATION				Q'TY (SETS)
	NORTH	EAST	SOUTH	WEST	
1ST	0	0	0	3	3
QTY TOTAL					3

205 CURTAIN WALL ELEVATION
(Ref. Arch : AL205/8.53)

- FRAME : 2 1/4" x 6" OPG-6000 SERIES
- GLASS : 1" GLASS
- Q'TY : (SEE TABLE FOR LOCATIONS)

DISTRIBUTION

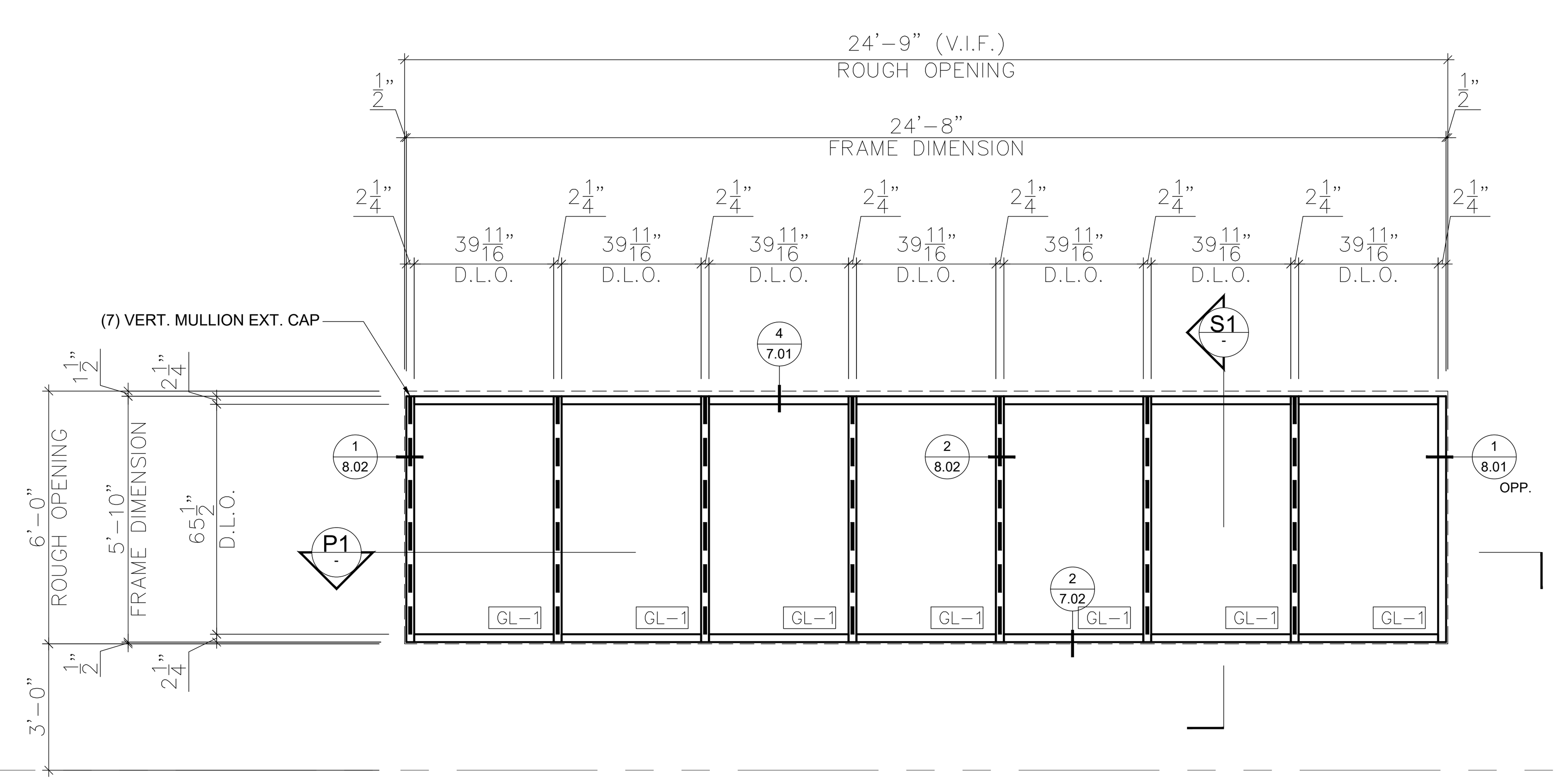
FLOOR	ELEVATION				Q'TY (SETS)
	NORTH	EAST	SOUTH	WEST	
2ND	0	0	11	0	11
QTY TOTAL					11

205A CURTAIN WALL ELEVATION
(Ref. Arch : AL205A/8.53)

- FRAME : 2 1/4" x 6" OPG-6000 SERIES
- GLASS : 1" GLASS
- Q'TY : (SEE TABLE FOR LOCATIONS)

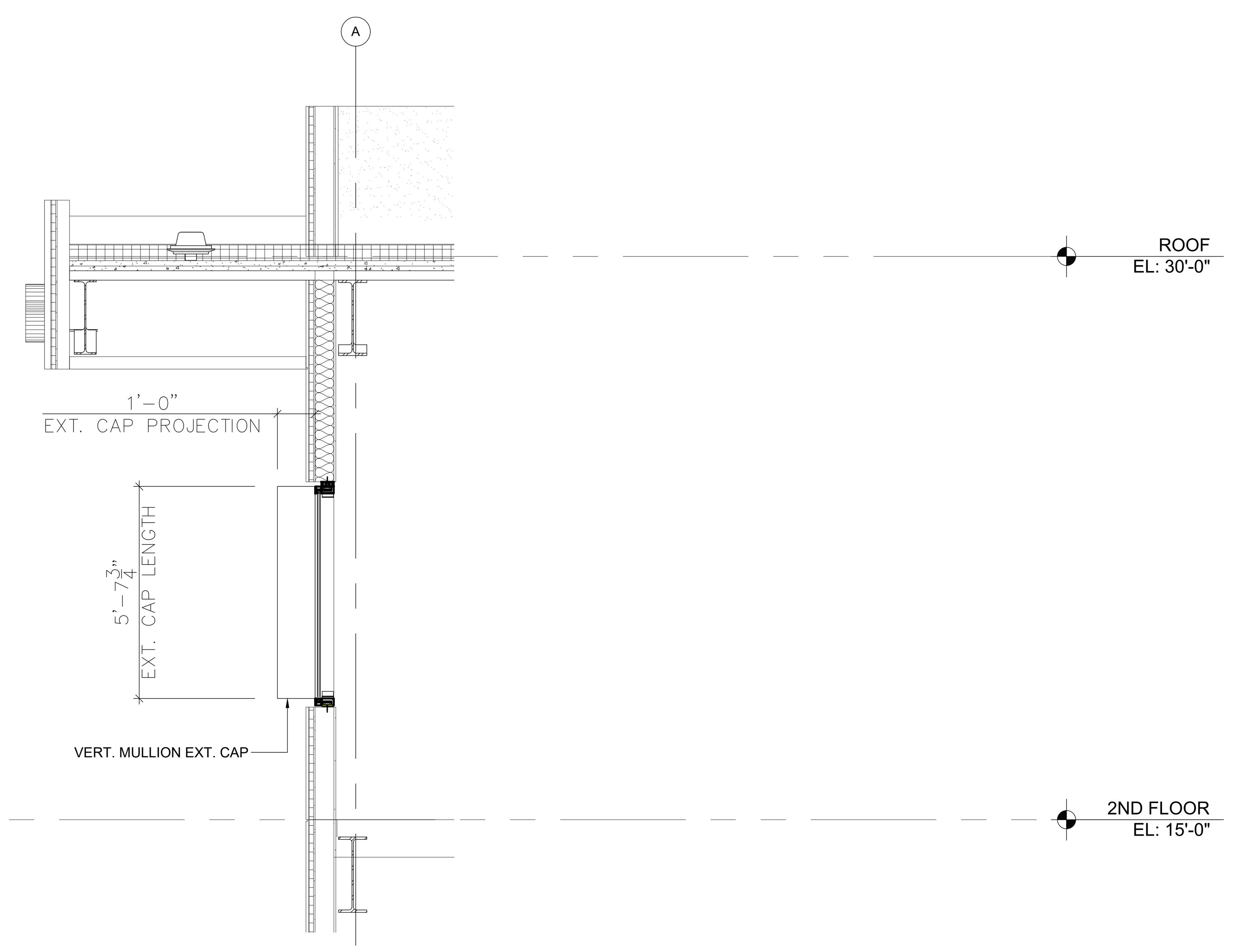
DISTRIBUTION

FLOOR	ELEVATION				Q'TY (SETS)
	NORTH	EAST	SOUTH	WEST	
2ND	0	0	0	5	5
QTY TOTAL					5

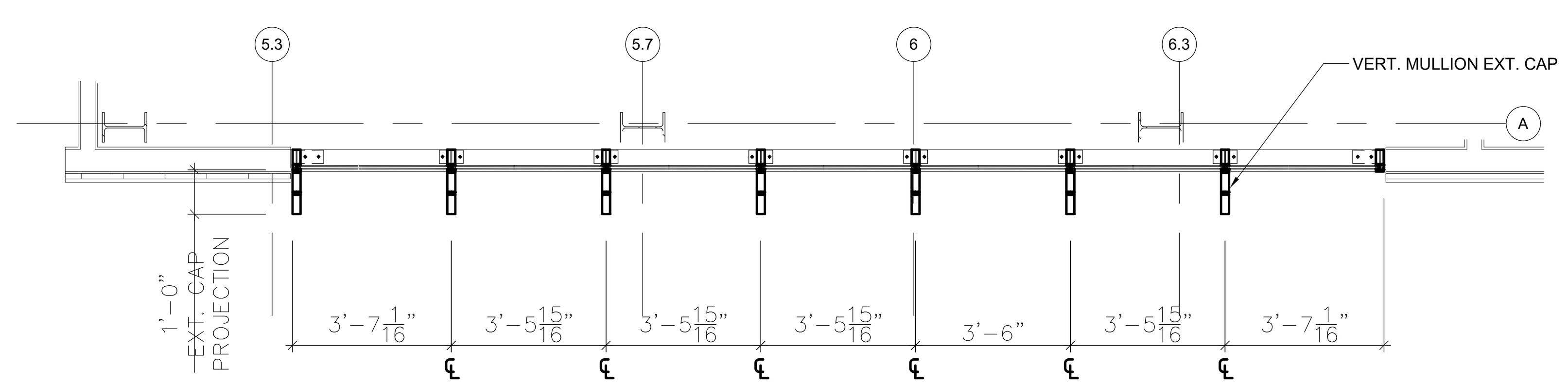


207 CURTAIN WALL ELEVATION
(Ref. Arch : AL207/8.53)

- FRAME : 2 1/4" x 6" OPG-6000 SERIES
- GLASS : 1" GLASS
- Q'TY : 1 SET @ COUNS. RM 251 - 253



S1 WALL SECTION
Ref. Arch : 2 / A6.6



P1 PLAN SECTION
Ref. Arch : 1 / A1.2

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owner

tBP project number: 20987.00
file name:
drawn by: checked by:
date: 9.2.2019
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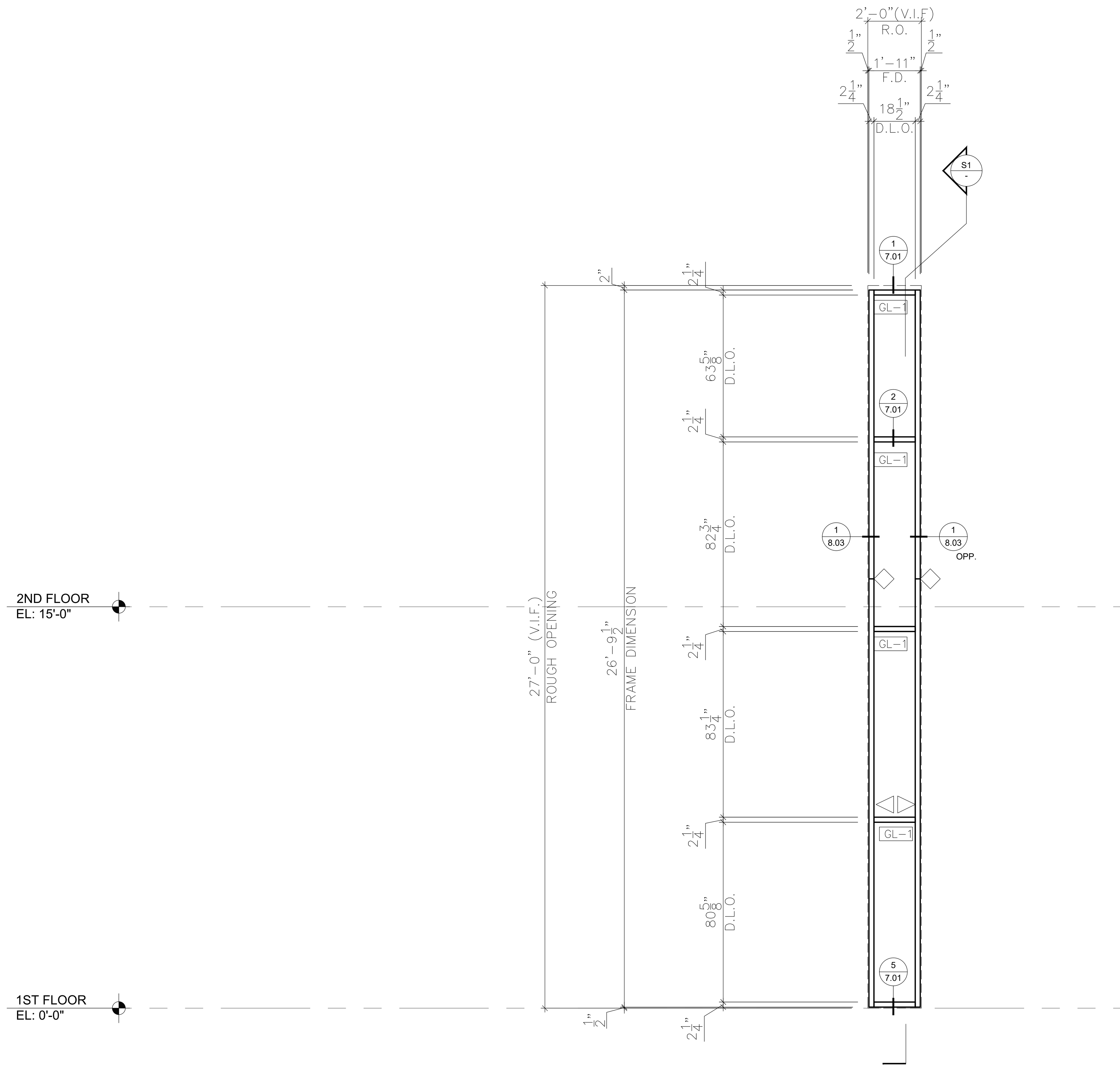
drawing title:

ELEVATIONS OPG-6000

drawing no.:

CW 3.03

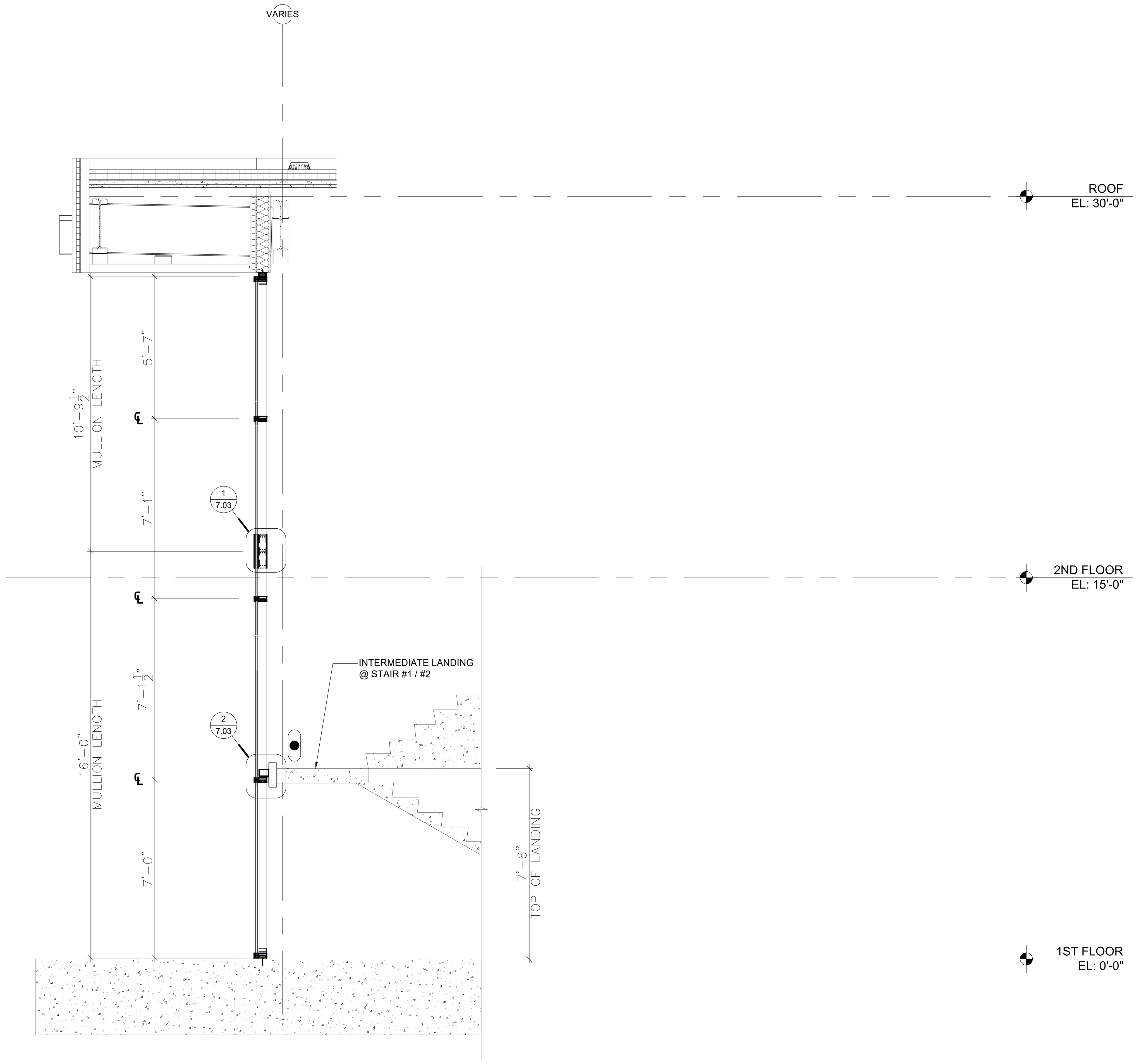


102 CURTAIN WALL ELEVATION
(Ref. Arch : AL102/8.52)

- FRAME : 2 1/4" x 6" OPG-6000 SERIES
- GLASS : 1" GLASS
- Q'TY : (SEE TABLE FOR LOCATIONS)

DISTRIBUTION

FLOOR	ELEVATION				Q'TY (SETS)
	NORTH	EAST	SOUTH	WEST	
1ST-ROOF	0	1	1	1	3
QTY TOTAL					3



S1 WALL SECTION
Ref. Arch : 2 / A6.5 SIM.

ANCHOR LEGEND

- WIND LOAD ANCHOR LOCATION
- WIND LOAD ANCHOR
- HARD SPLICE LOCATION

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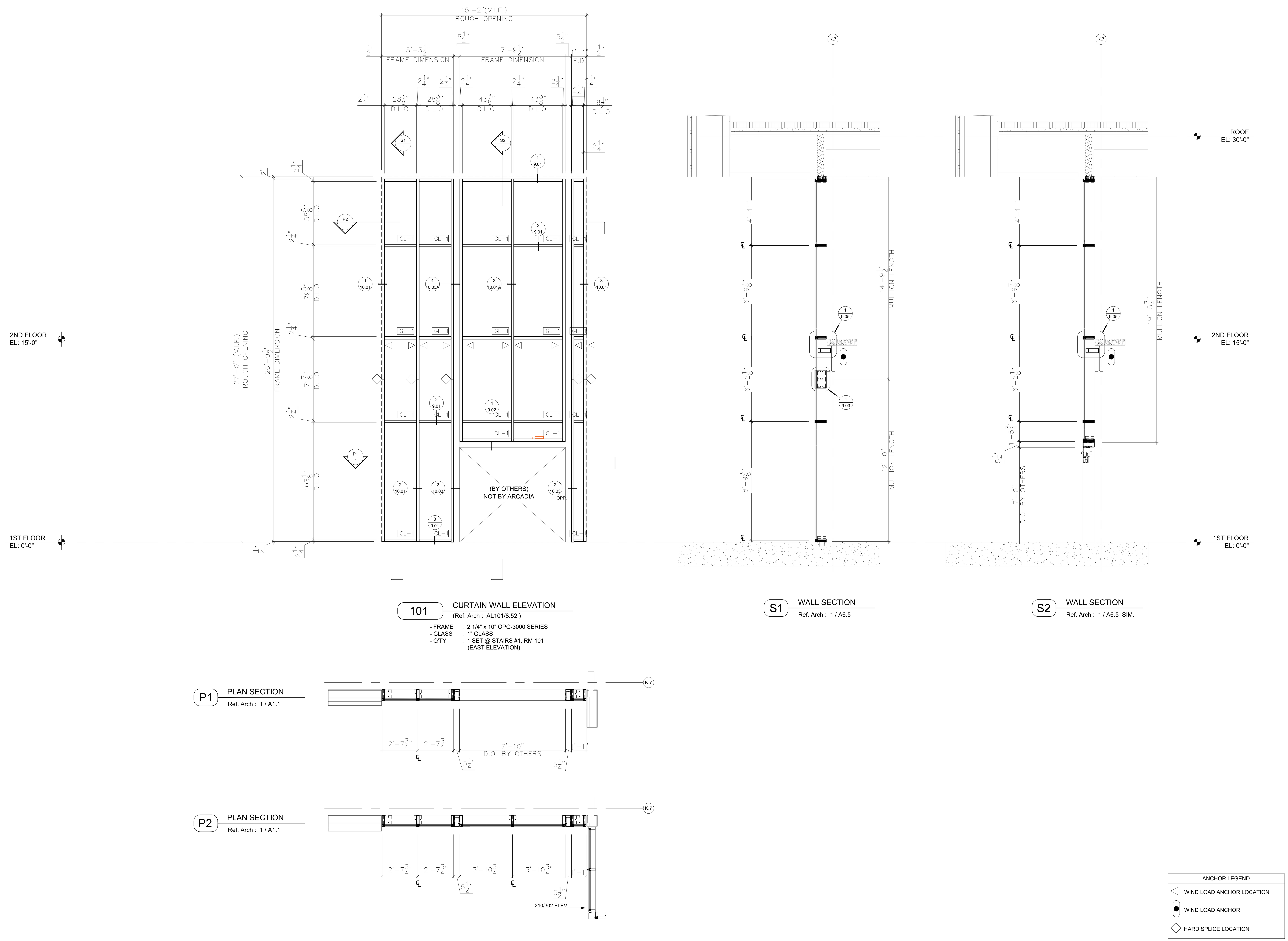
tBP project number: 20987.00
file name:
drawn by: checked by:
date: 9.2.2019
rev: date: description:

drawing title:
ELEVATIONS
OPG-6000

drawing no.:
CW 3.04



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tBP project number: 20987.00
file name:
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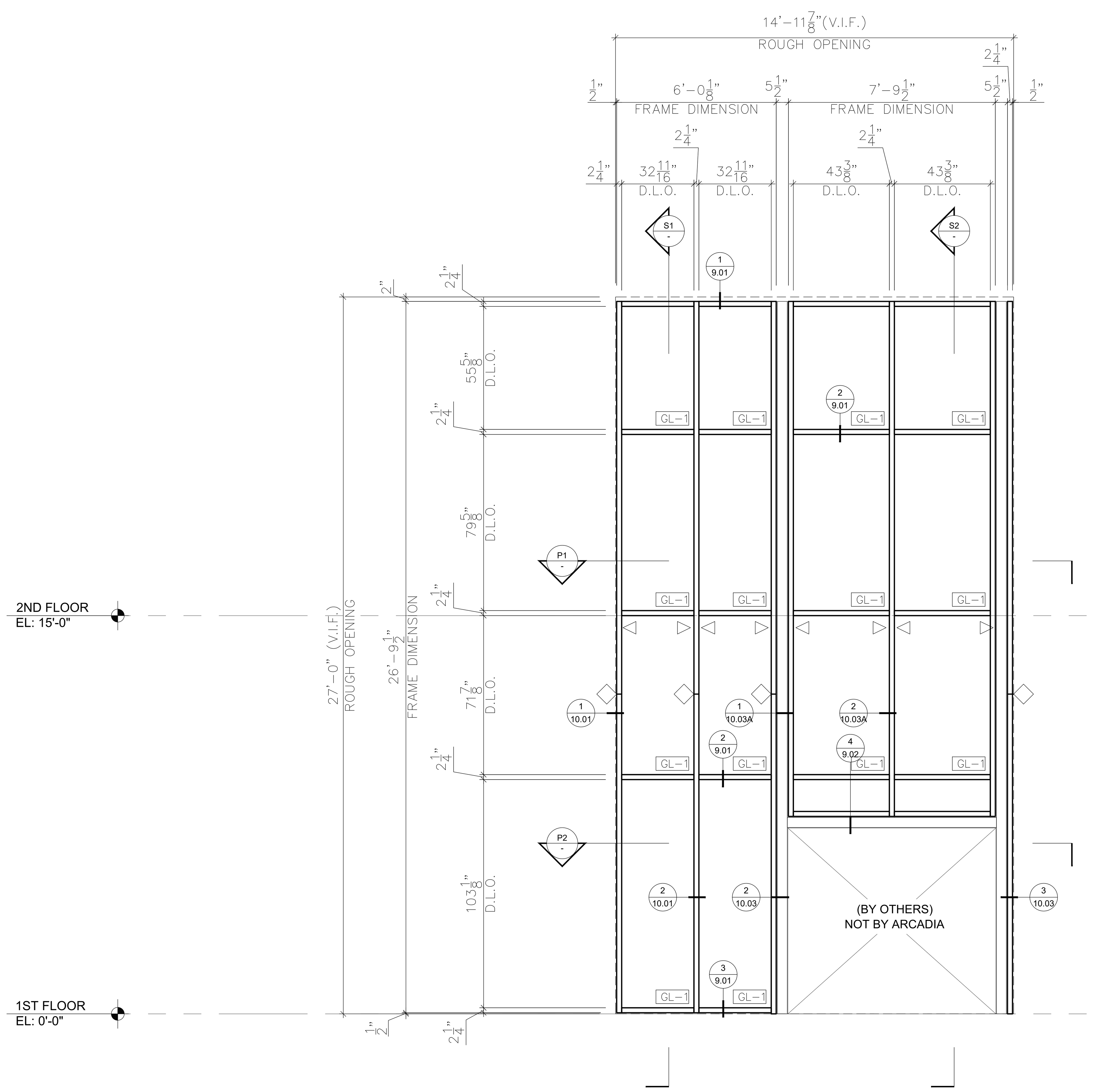
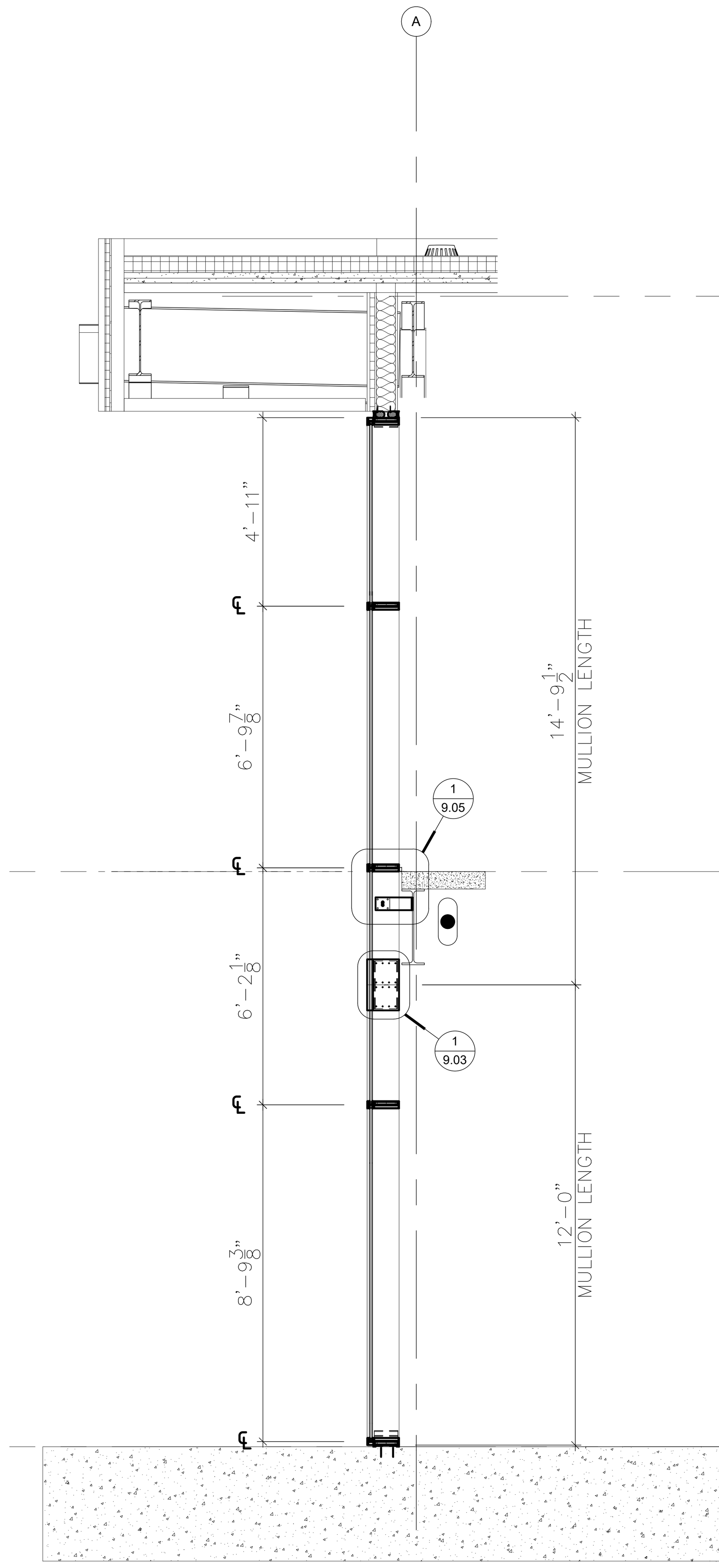
drawing title:
ELEVATIONS
OPG-3000

drawing no.:
CW 4.01

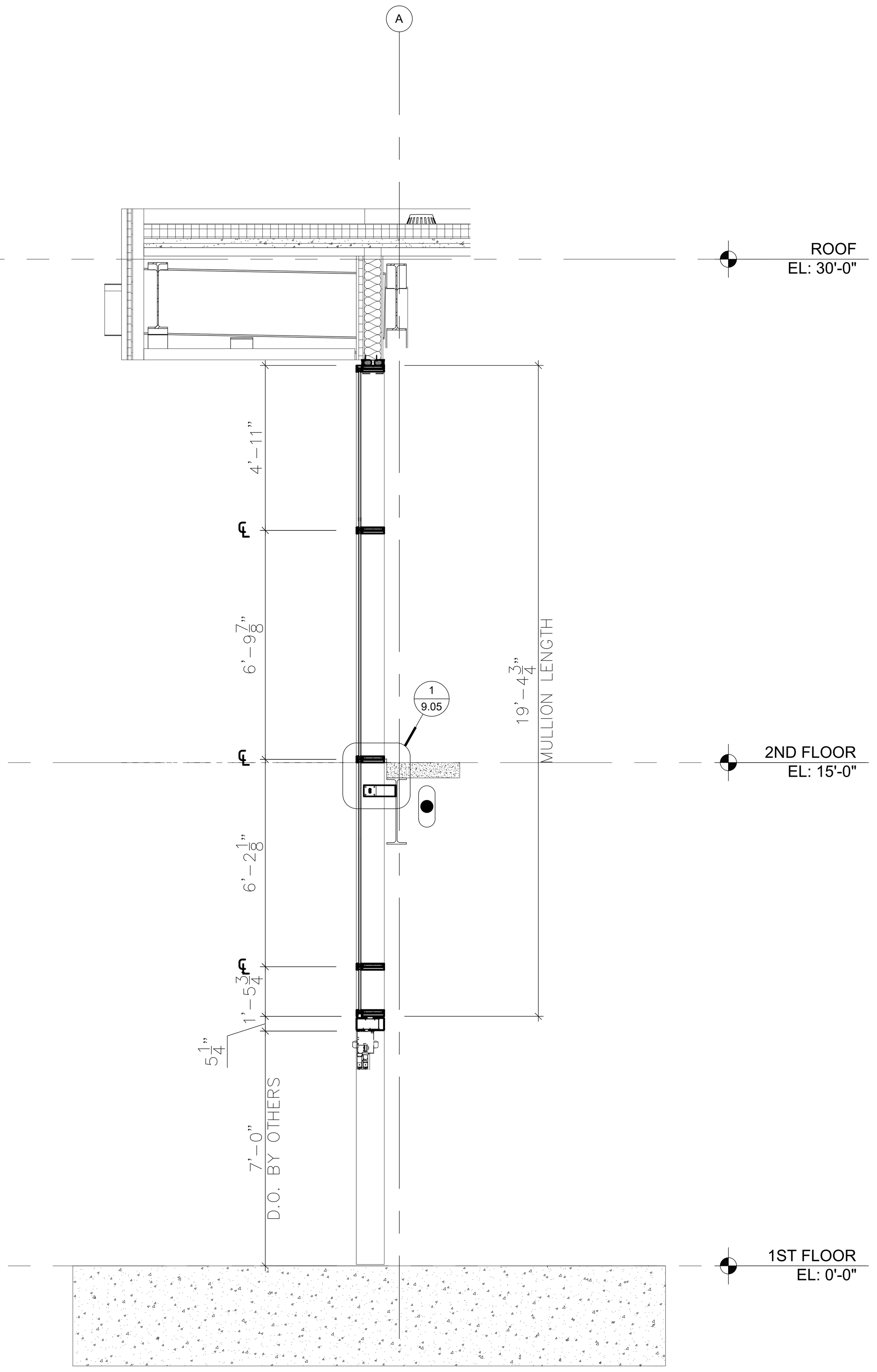


109 CURTAIN WALL ELEVATION
(Ref. Arch : AL109/8.52)

- FRAME : 2 1/4" x 10" OPG-3000 SERIES
- GLASS : 1" GLASS
- Q'TY : 1 SET @ STAIRS #2; RM 115 (WEST ELEVATION)

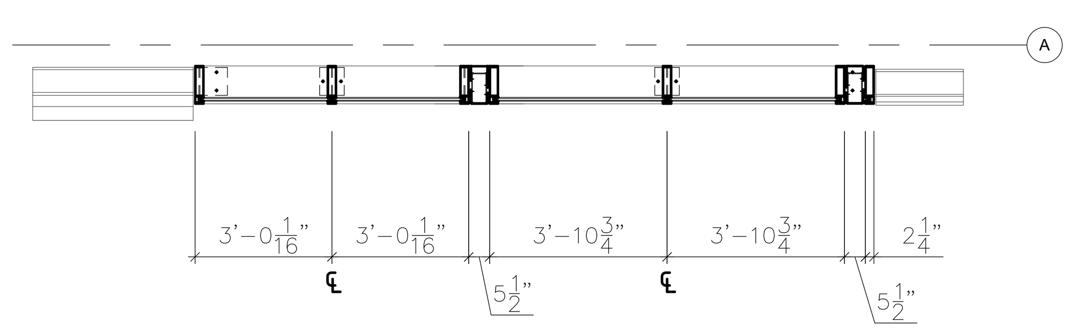


S1 WALL SECTION
Ref. Arch : 3 / A5.2 SIM.

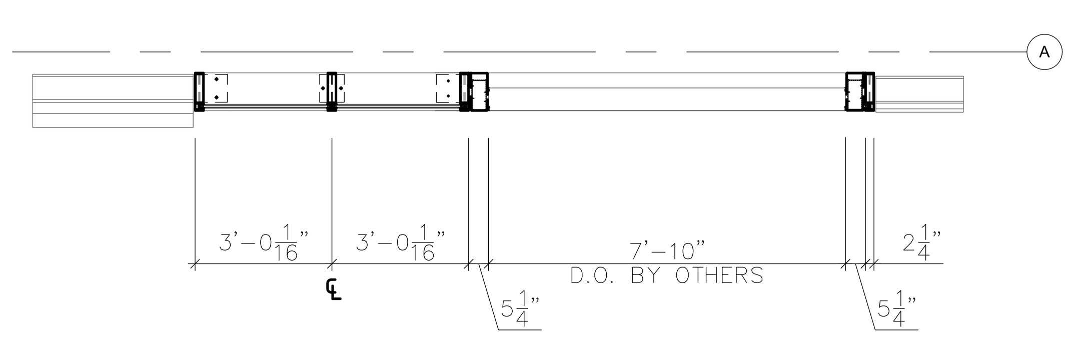


S2 WALL SECTION
Ref. Arch : 3 / A5.2 SIM.

P1 PLAN SECTION
Ref. Arch : 1 / A1.1



P2 PLAN SECTION
Ref. Arch : 1 / A1.1



ANCHOR LEGEND
WIND LOAD ANCHOR LOCATION
WIND LOAD ANCHOR
HARD SPLICE LOCATION

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tBP project number: 20987.00
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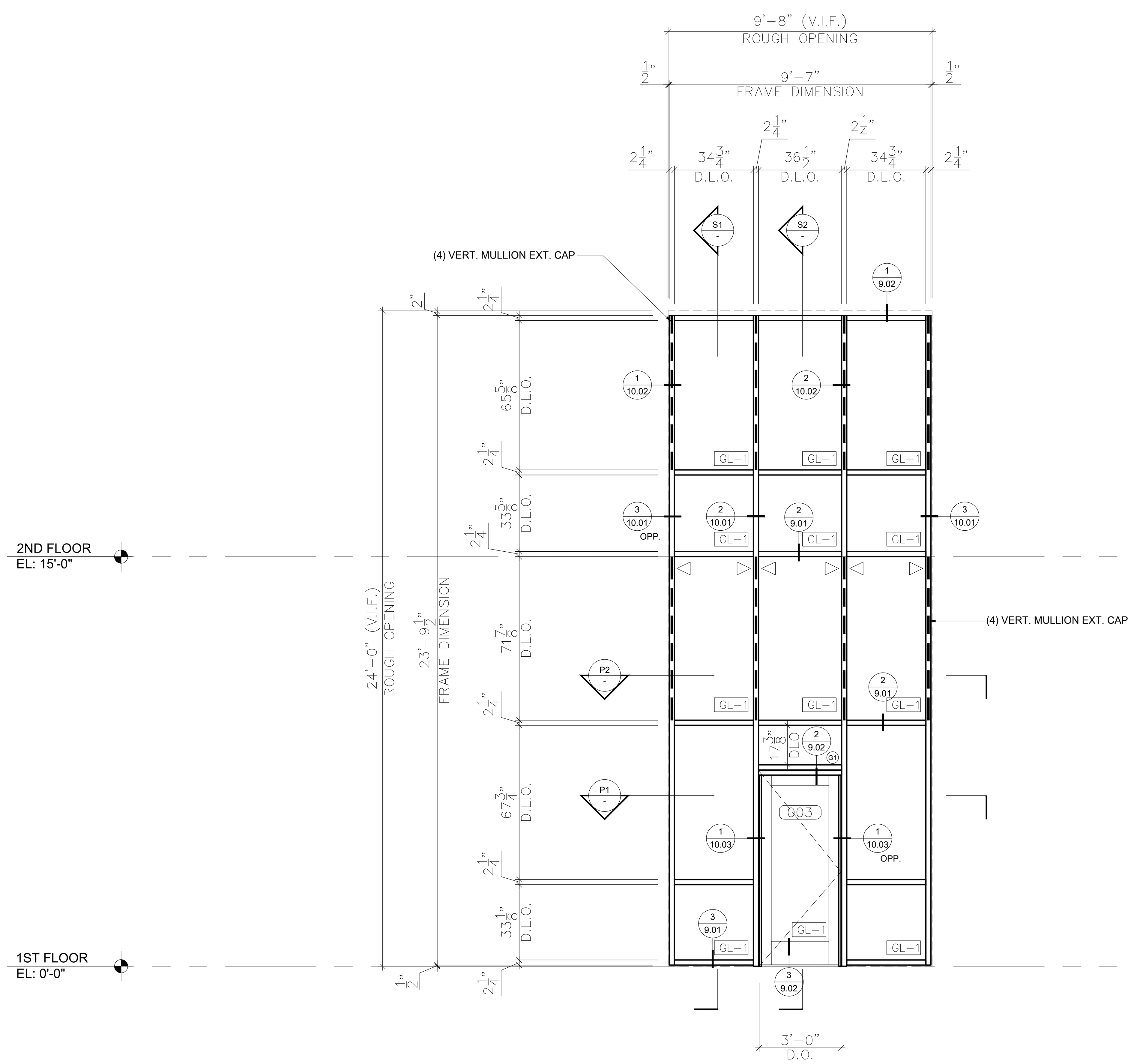
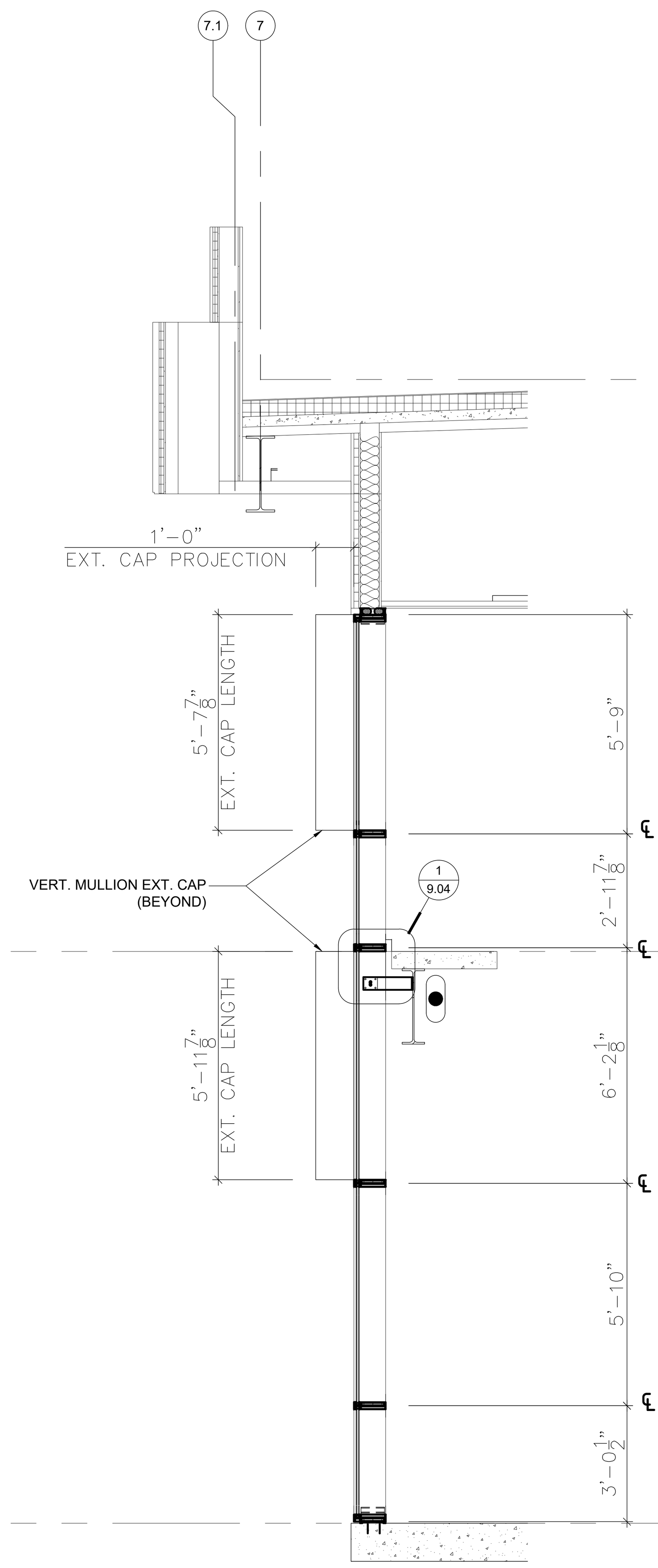
drawing title:
ELEVATIONS
OPG-3000

drawing no.:
CW 4.02

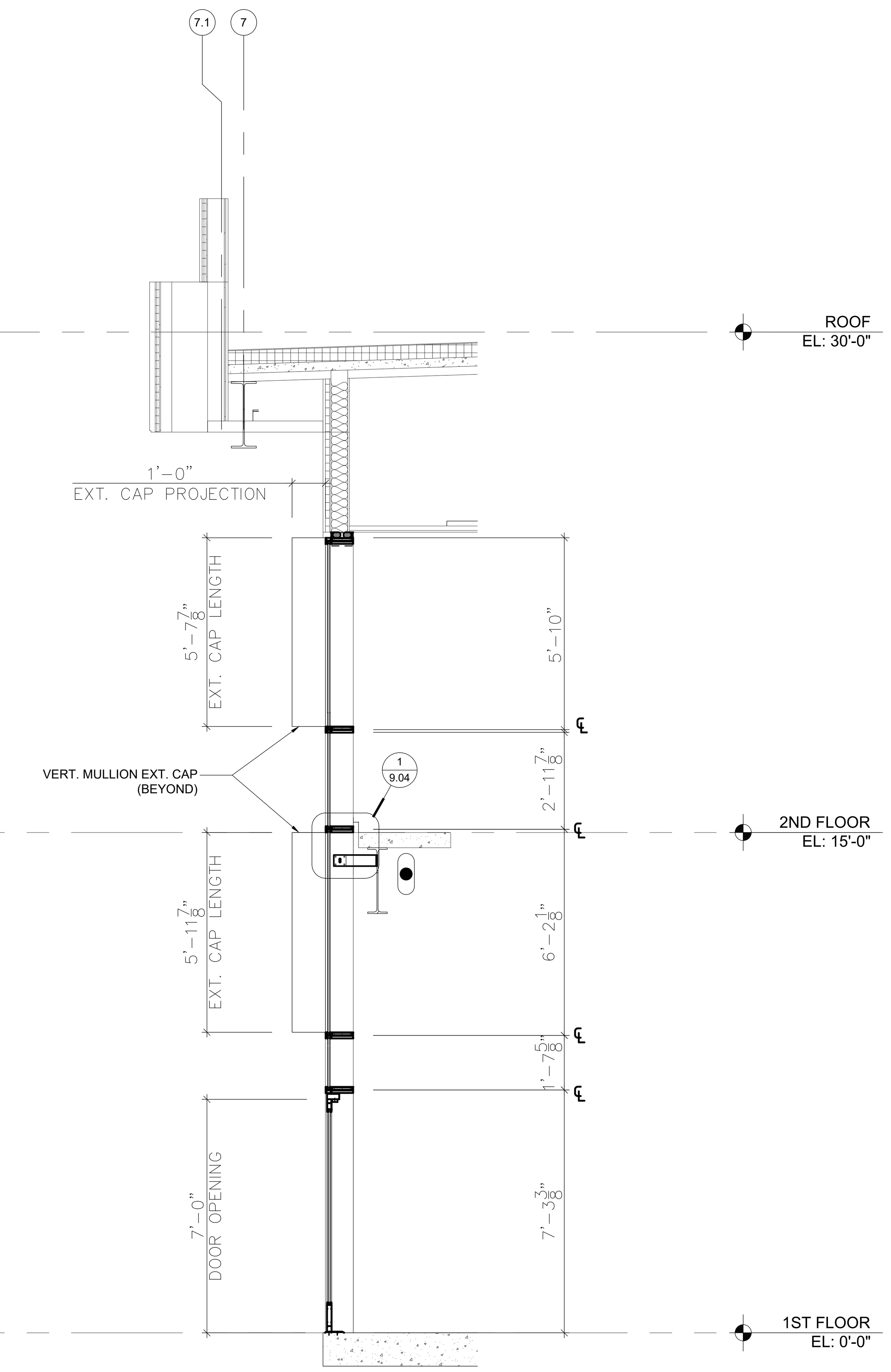


106 CURTAIN WALL ELEVATION
(Ref. Arch : AL106/8.52)

- FRAME : 2 1/4" x 10" OPG-3000 SERIES
- DOOR : MS362HD SERIES
- GLASS : 1" GLASS
- Q'TY : 1 SET @ COMPUTER RM 114 (SOUTH ELEVATION)

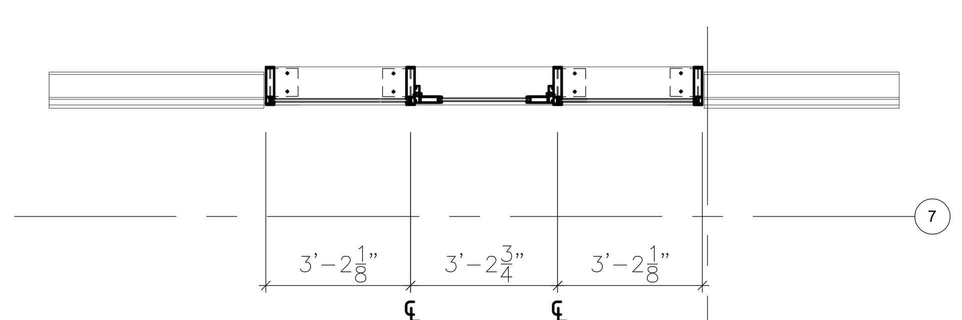


S1 WALL SECTION
Ref. Arch : 2 / A5.1, 3 / A6.2



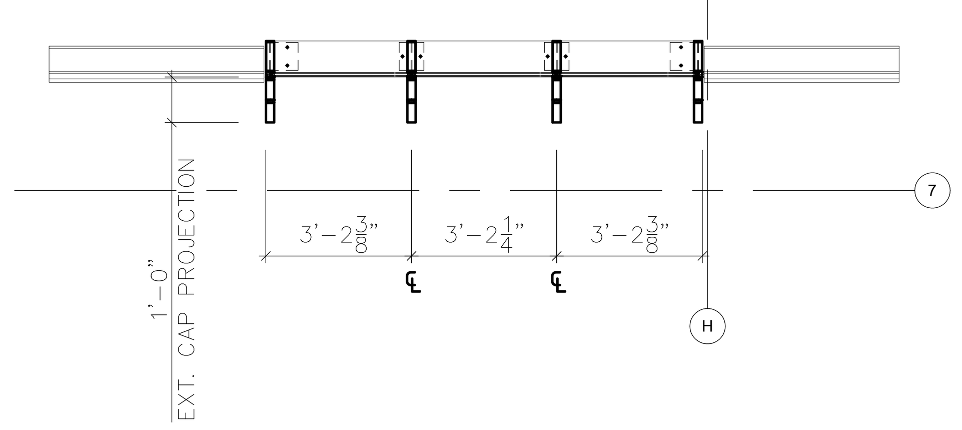
S2 WALL SECTION
Ref. Arch : 2 / A5.1 (SIM.)

P1 PLAN SECTION
Ref. Arch : 1 / A1.1



SINGLE DOOR #003
H/W GROUP -
WxH= 3'-0" X 7'-0"
HINGE RIGHT SWING OUT

P2 PLAN SECTION
Ref. Arch : 1 / A1.1



ANCHOR LEGEND

- WIND LOAD ANCHOR LOCATION
- WIND LOAD ANCHOR
- HARD SPLICE LOCATION

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tBP project number: 20987.00
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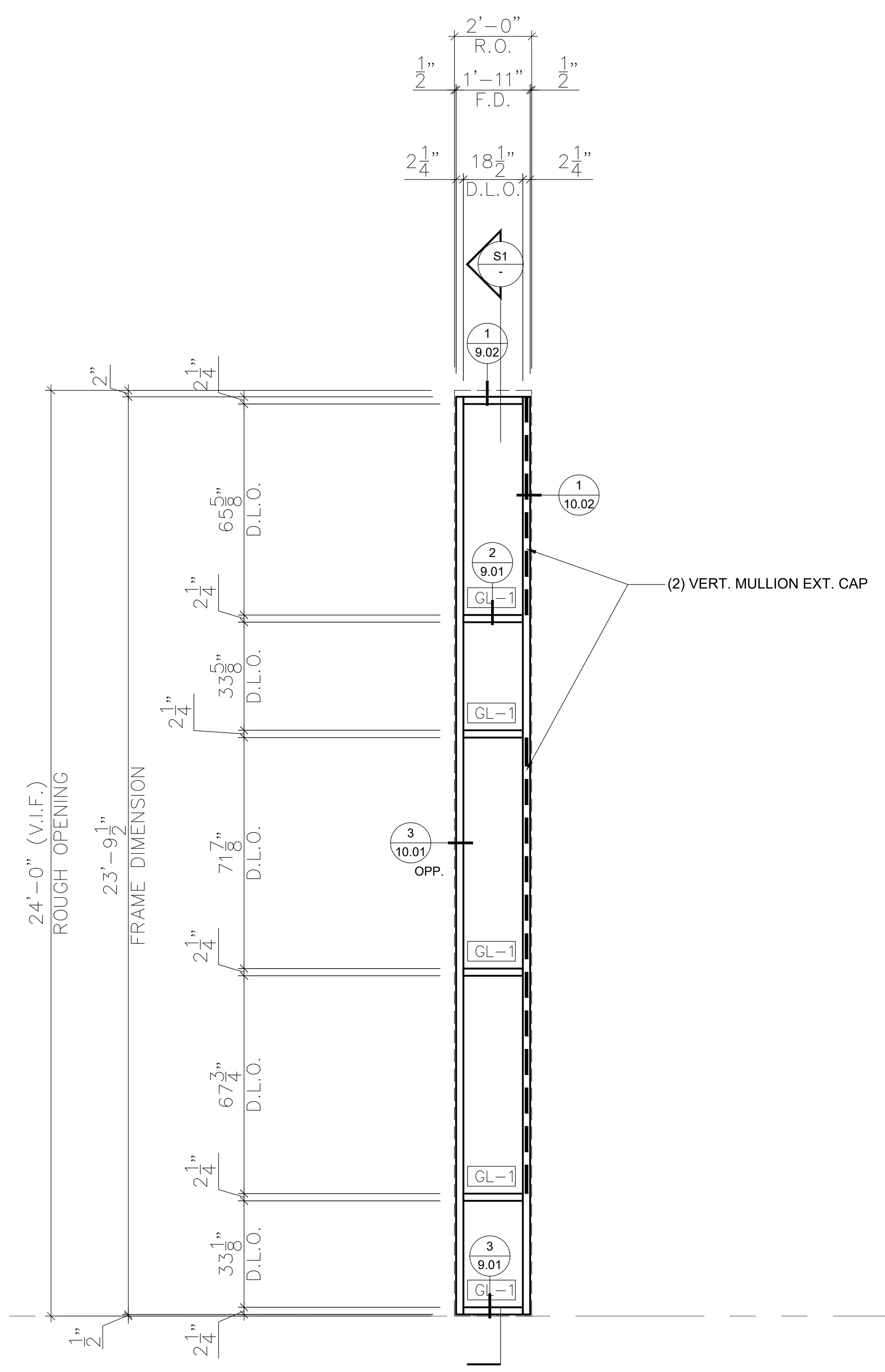
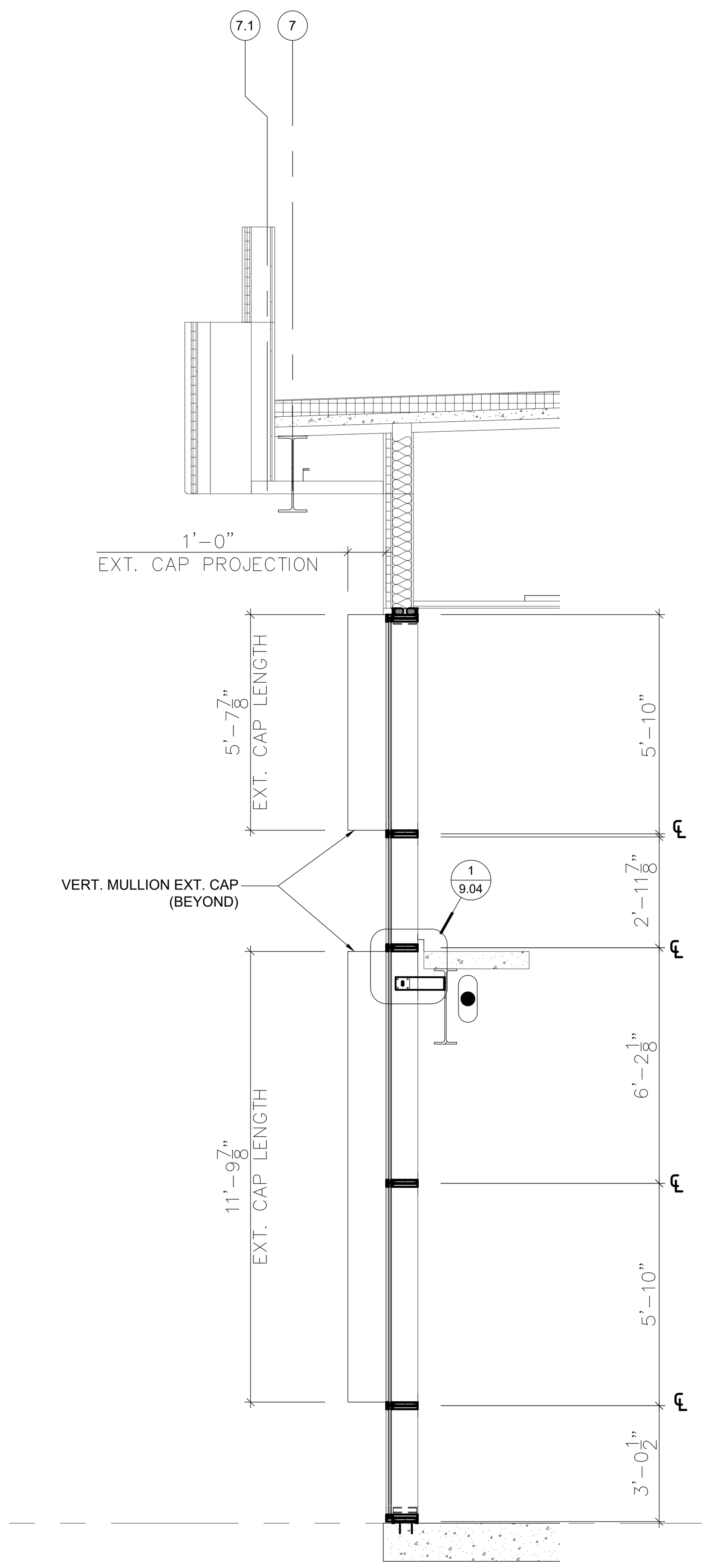
drawing title:
ELEVATIONS
OPG-3000

drawing no.:
CW 4.03



107 CURTAIN WALL ELEVATION
(Ref. Arch : AL107/8.52)
- FRAME : 2 1/4" x 10" OPG-3000 SERIES
- GLASS : 1" GLASS
- Q'TY : 2 SET(S) @ SOUTH



S1 WALL SECTION
Ref. Arch : 2 / A5.1, 3 / A6.2

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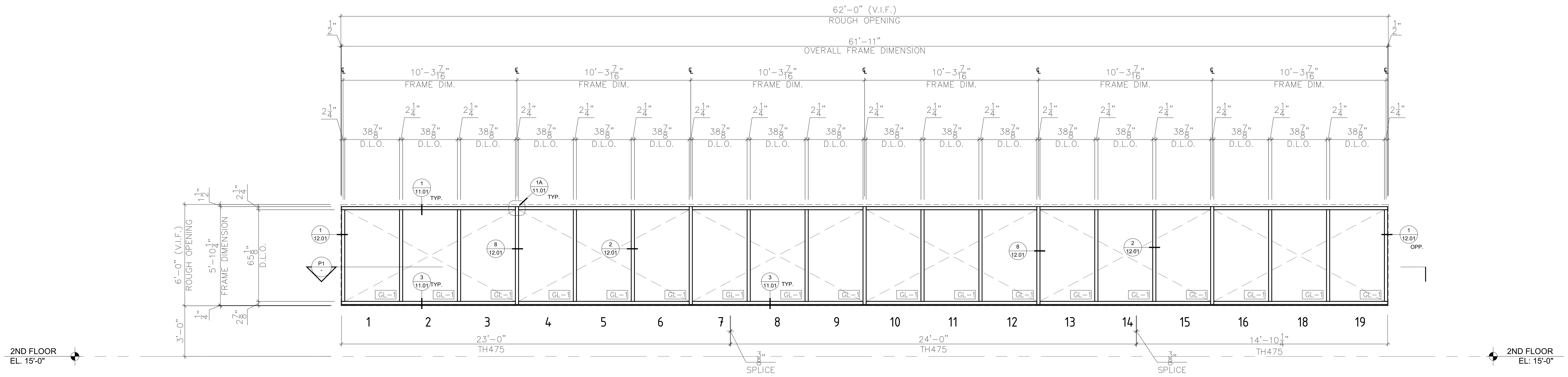
date: 9.2.2019
rev: date: description:

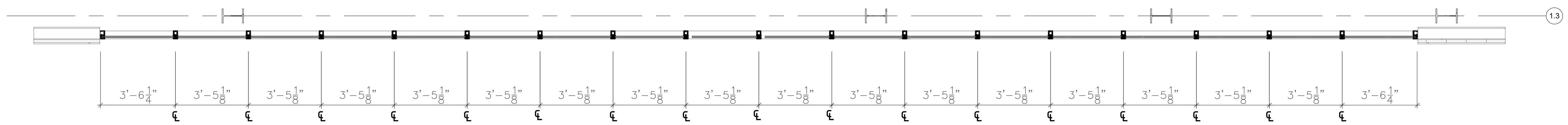
drawing title:
ELEVATIONS
OPG-3000

drawing no.:
CW 4.04

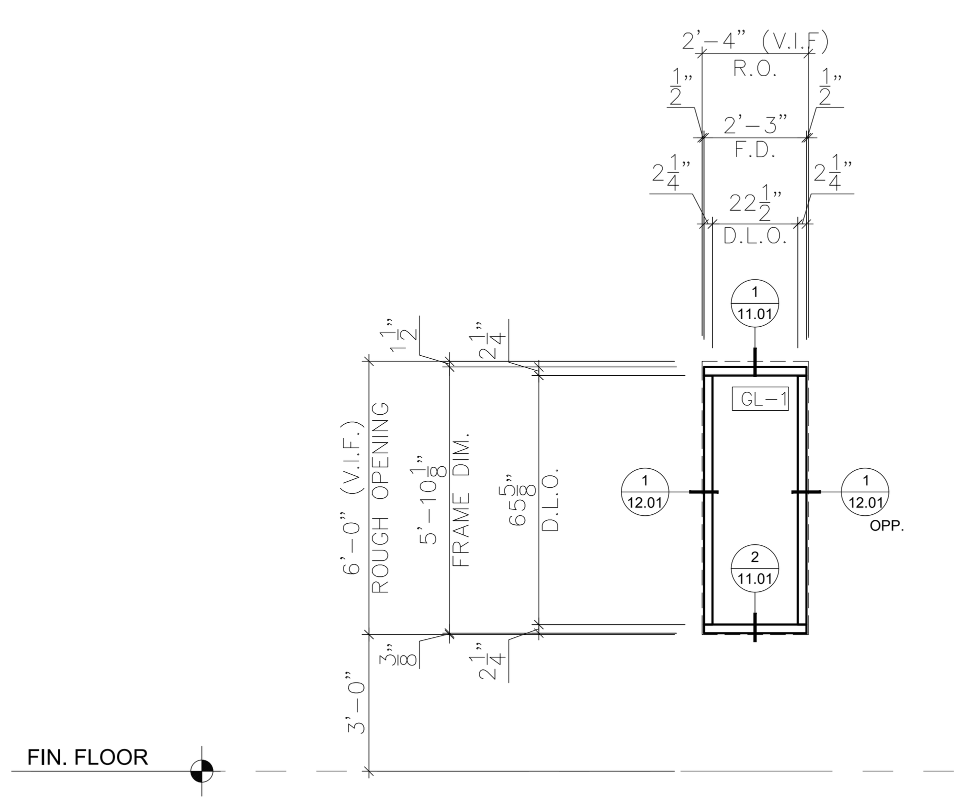


208 **WINDOW WALL ELEVATION**
(Ref. Arch : AL208/8.53)

- FRAME : 2 1/4" x 4 1/2" TC-470 SERIES
- GLASS : 1" GLASS
- Q'TY : 1 SET @ DIR. RM # 287 - PRO TECH. RM # 293 (NORTH ELEVATION)



P1 **PLAN SECTION**
Ref. Arch : 1 / A1.1

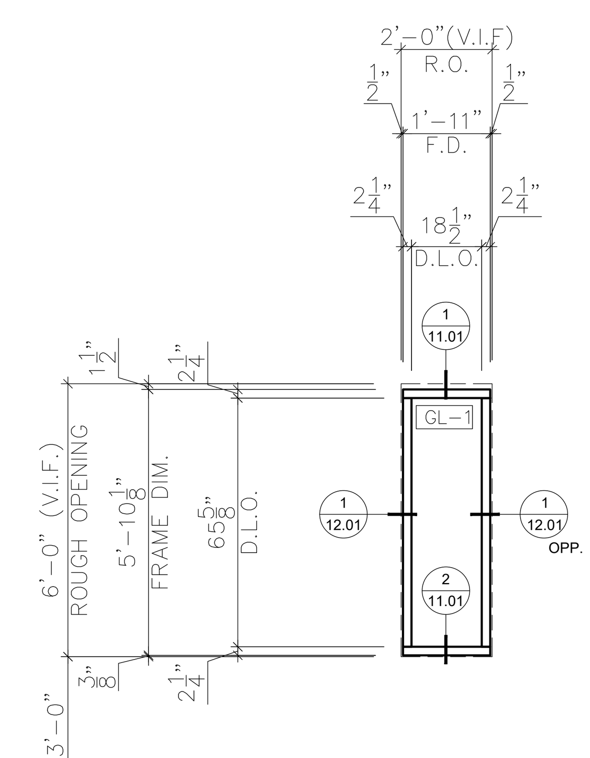


108B **WINDOW WALL ELEVATION**
(Ref. Arch : AL108/8.52 SIM.)

- FRAME : 2 1/4" x 4 1/2" TC-470 SERIES
- GLASS : 1" GLASS
- Q'TY : (SEE TABLE FOR LOCATIONS)

DISTRIBUTION

FLOOR	ELEVATION				Q'TY (SETS)
	NORTH	EAST	SOUTH	WEST	
1ST	11	7	0	3	21
QTY TOTAL					21

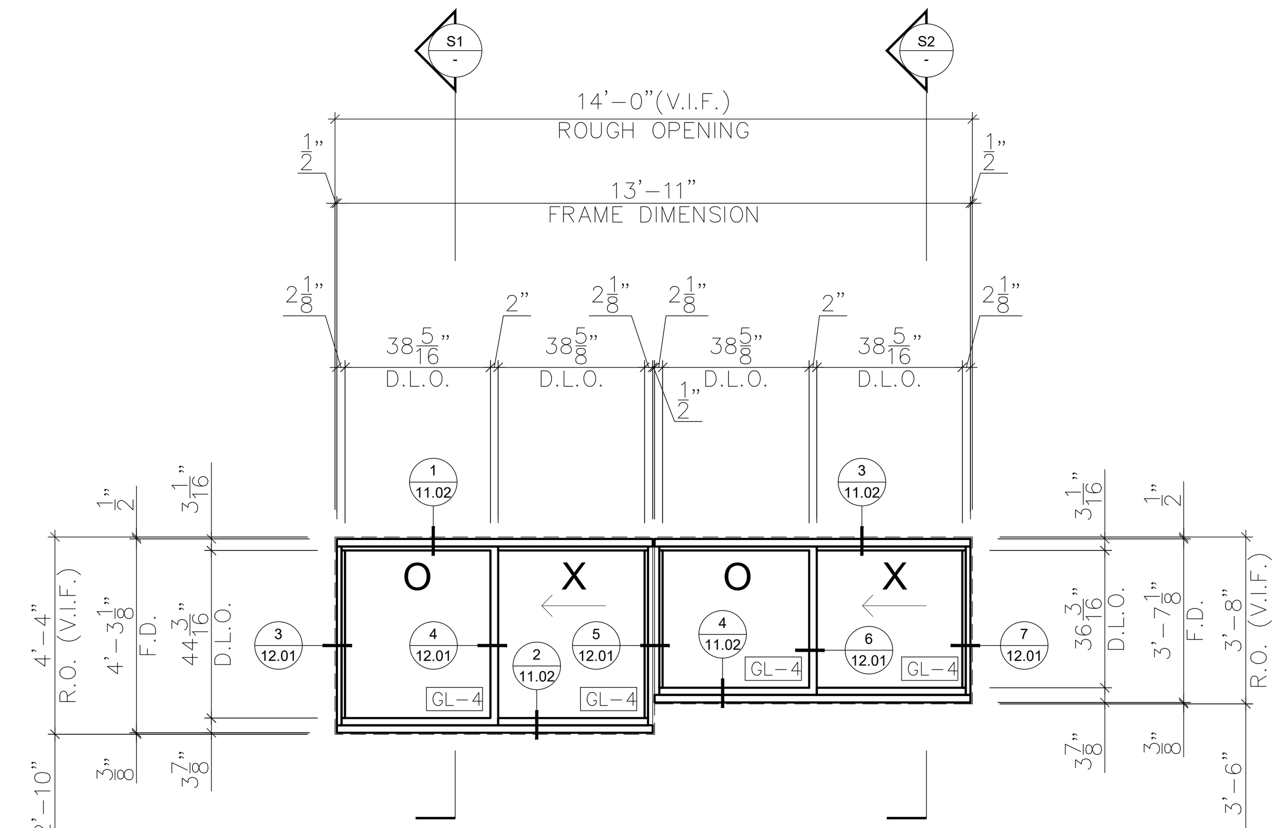


205B **WINDOW WALL ELEVATION**
(Ref. Arch : AL205/8.53 SIM.)

- FRAME : 2 1/4" x 4 1/2" TC-470 SERIES
- GLASS : 1" GLASS
- Q'TY : (SEE TABLE FOR LOCATIONS)

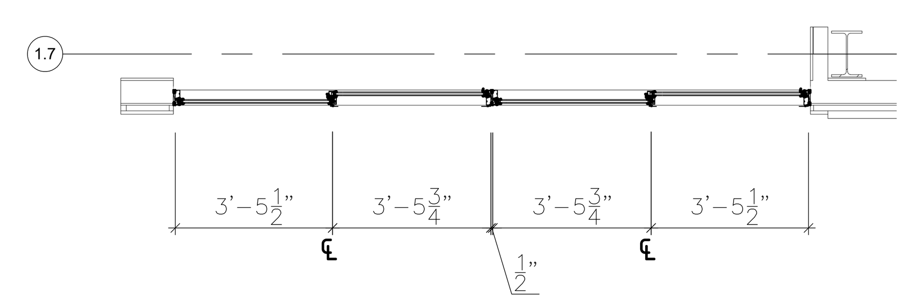
DISTRIBUTION

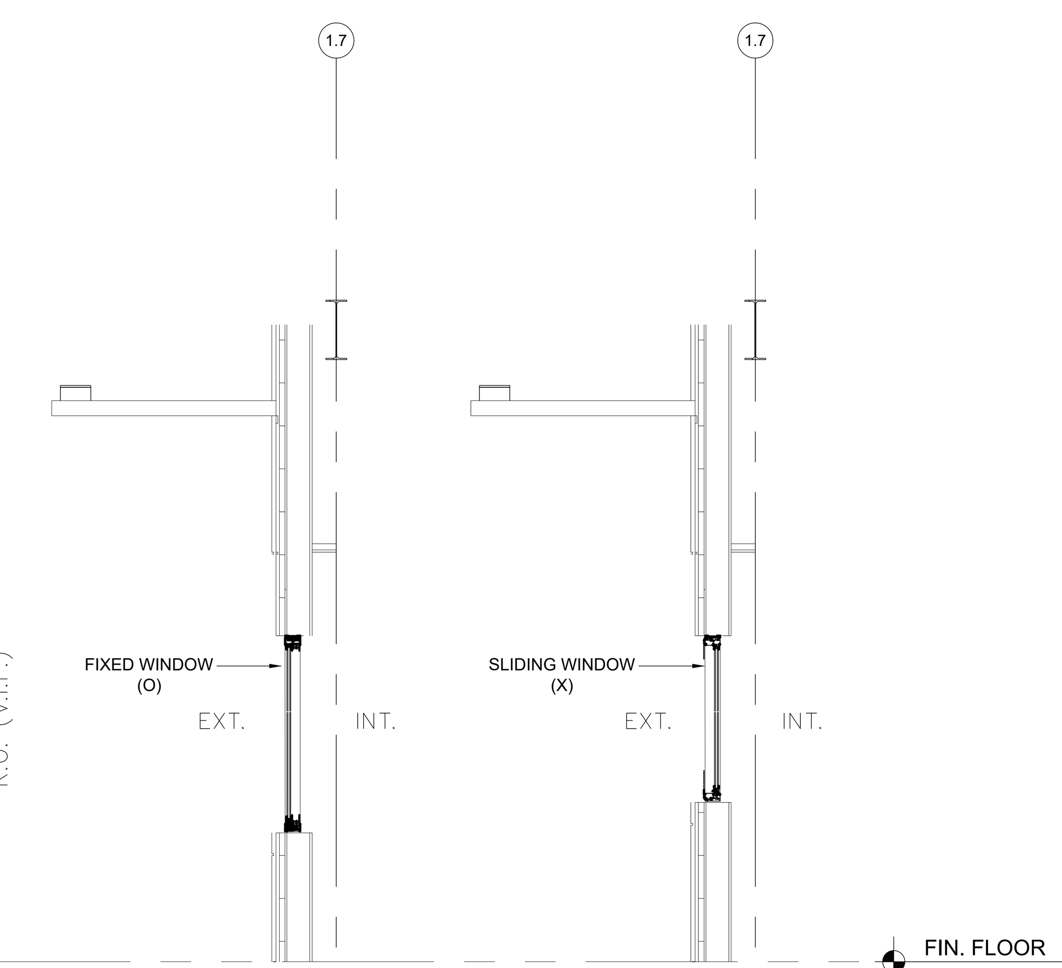
FLOOR	ELEVATION				Q'TY (SETS)
	NORTH	EAST	SOUTH	WEST	
2ND	6	0	0	0	6
QTY TOTAL					6



110 **WINDOW ELEVATION**
(Ref. Arch : AL110/8.52)

- FRAME : 2 1/8" Sightline 4" Frame ULT-500 Series
- GLASS : 1" GLASS
- Q'TY : 1 SET @ OPEN OFFICE RM # 161 (NORTH ELEVATION)





S1 **WALL SECTION**
Ref. Arch : 1 / A5.2

S2 **WALL SECTION**
Ref. Arch : 1 / A5.2

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file name:
drawn by: checked by:
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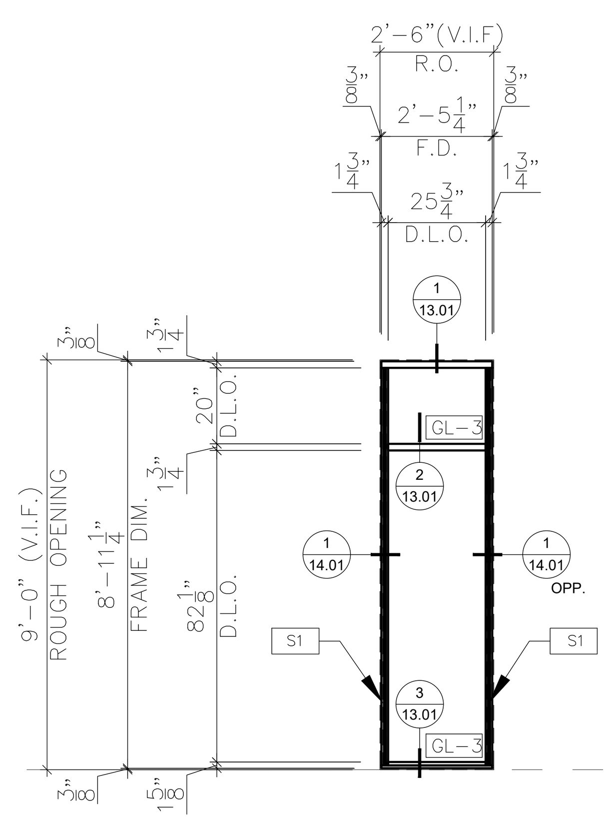
drawing title:
ELEVATIONS
TC-470

drawing no.:
CW 5.01

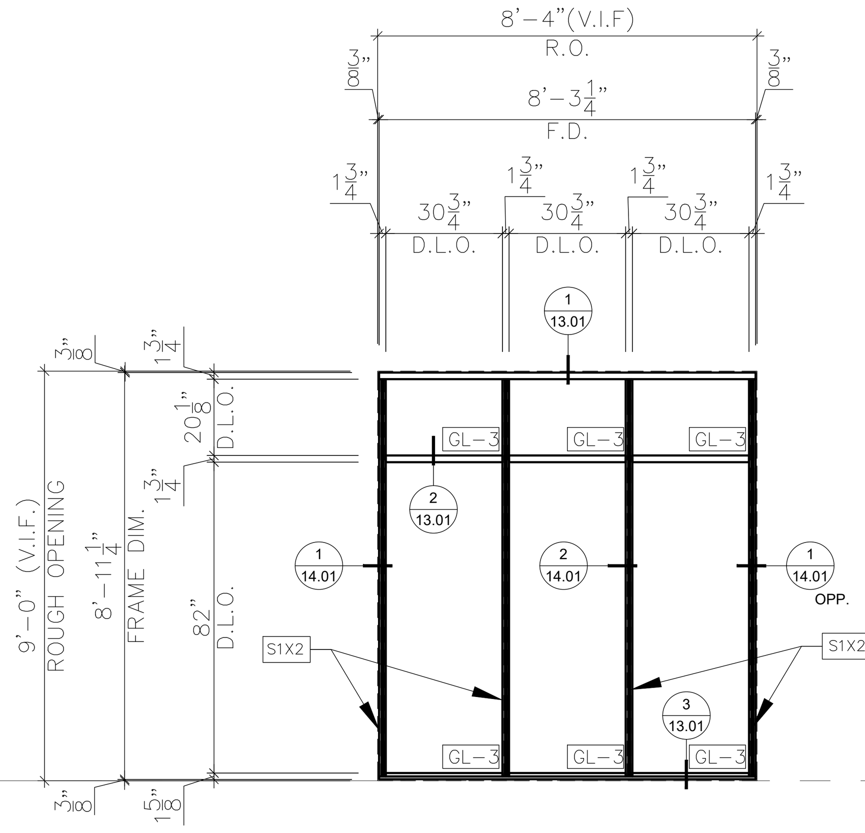


DISTRIBUTION

FLOOR	ROOM # / LOCATION	QTY'S (SETS)
1ST	175	1
	176	1
	177	1
	185	1
	184	1
	170	2
	181	1
	113	1
	116	1
	161A	4
	151	2
	154	1
	155	1
	156	1
	157	1
	158	1
	160	1
	144	1
	145	2
	146	1
	140	2
	134	1
	133	3
	132	2
	131	2
	130	2
QTY'S TOTAL		38

101A STOREFRONT ELEVATION
(Ref. Arch : ALI101 / 8.51)

- FRAME : 1 3/4" x 4" A-400 SERIES
- GLASS : 1/4" GLASS
- Q'TY : (SEE TABLE FOR LOCATIONS)

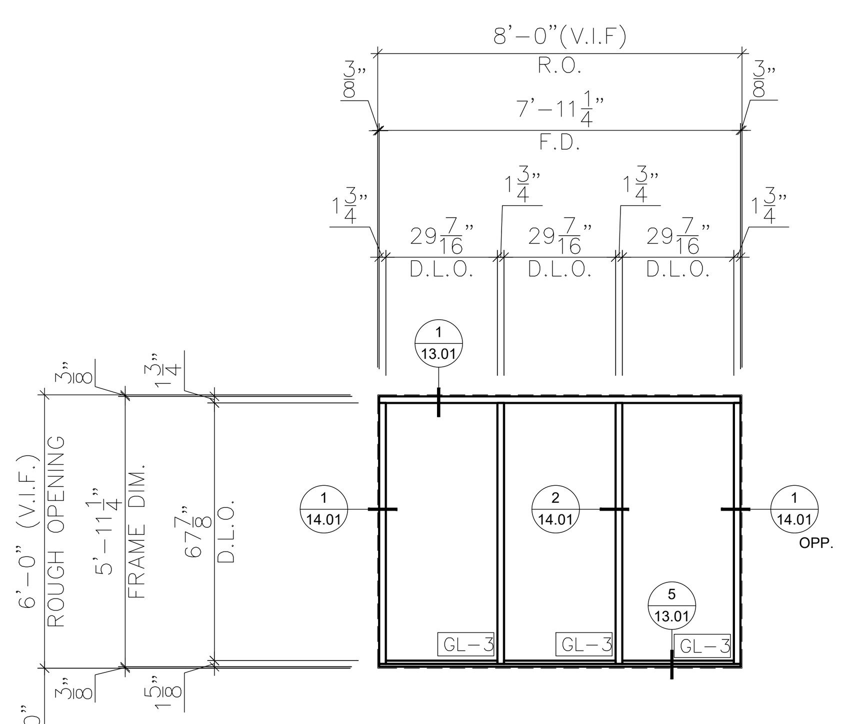


DISTRIBUTION

FLOOR	ROOM # / LOCATION	QTY'S (SETS)
1ST	131	1
	132	1
QTY'S TOTAL		2

103A STOREFRONT ELEVATION
(Ref. Arch : ALI103 / 8.51)

- FRAME : 1 3/4" x 4" A-400 SERIES
- GLASS : 1/4" GLASS
- Q'TY : (SEE TABLE FOR LOCATIONS)

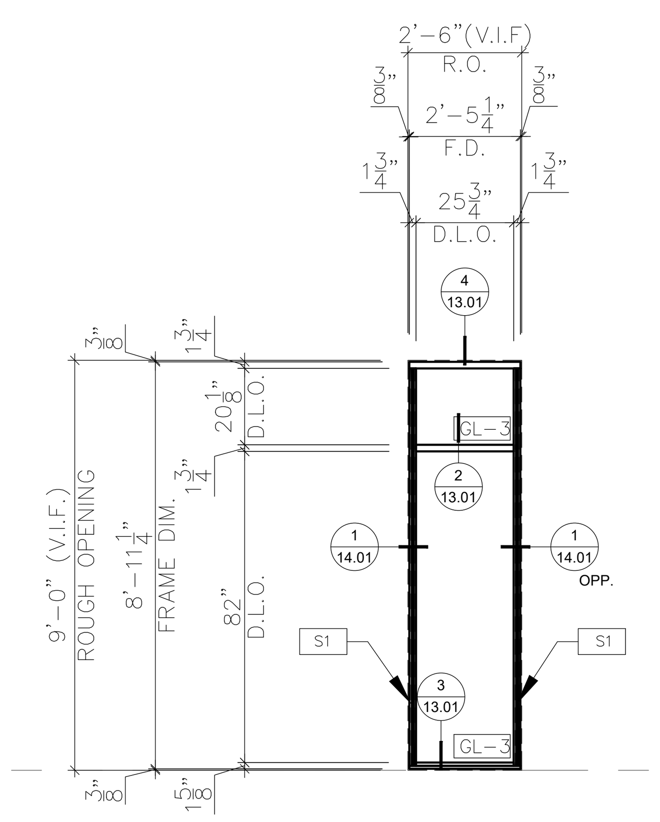


DISTRIBUTION

FLOOR	ROOM # / LOCATION	QTY'S (SETS)
1ST	114	2
QTY'S TOTAL		2

104A STOREFRONT ELEVATION
(Ref. Arch : ALI104/ 8.51)

- FRAME : 1 3/4" x 4" A-400 SERIES
- GLASS : 1/4" GLASS
- Q'TY : (SEE TABLE FOR LOCATIONS)

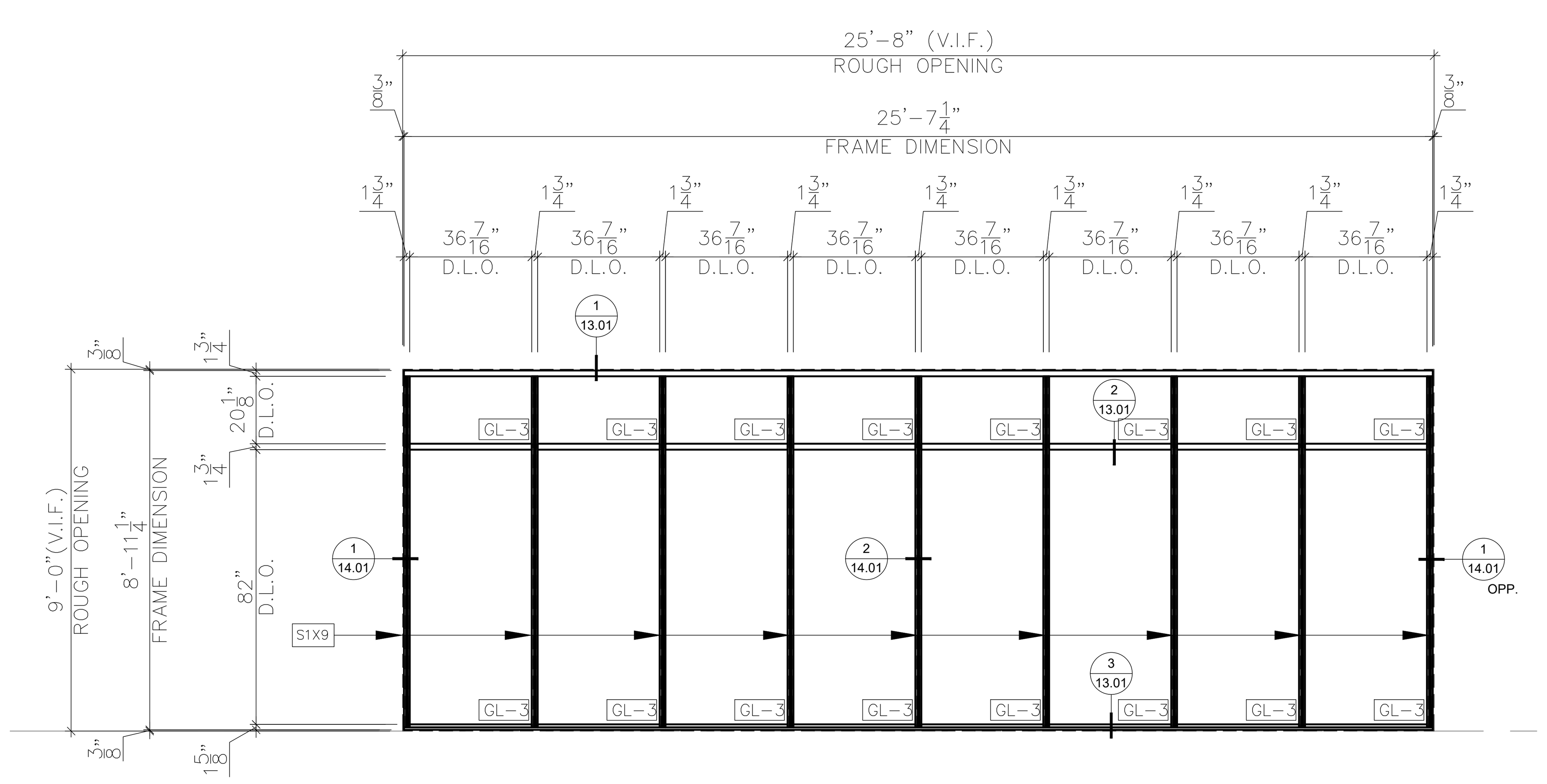


DISTRIBUTION

FLOOR	ROOM # / LOCATION	QTY'S (SETS)
2ND	272	1
	273	1
	274	1
	283	1
	284	1
	285	1
	286	1
	292	1
	288	1
	289	4
	211	2
	270	3
	280B	2
	200	8
	251	1
	252	1
	253	1
	255	1
	257	1
	258	1
	259	1
	260	1
	261	1
	262	1
	263	1
	264	1
	240	2
	270	1
	220	3
	221	1
	234	1
	232	1
	231	1
QTY'S TOTAL		40

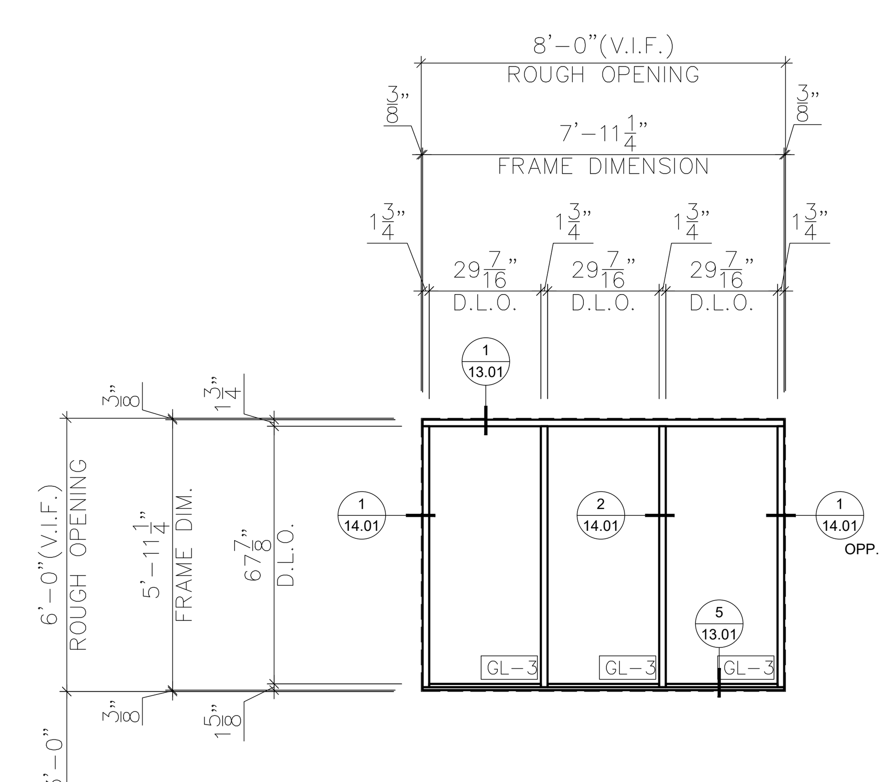
201 STOREFRONT ELEVATION
(Ref. Arch : ALI201 / 8.51)

- FRAME : 1 3/4" x 4" A-400 SERIES
- GLASS : 1/4" GLASS
- Q'TY : (SEE TABLE FOR LOCATIONS)



202 STOREFRONT ELEVATION
(Ref. Arch : ALI202/ 8.51)

- FRAME : 1 3/4" x 4" A-400 SERIES
- GLASS : 1/4" GLASS
- Q'TY : 1 SET @ 2ND FLOOR; ABOVE COMP. RM. 114 GRID G - H.3



203 STOREFRONT ELEVATION
(Ref. Arch : ALI203 / 8.51)

- FRAME : 1 3/4" x 4" A-400 SERIES
- GLASS : 1/4" GLASS
- Q'TY : 4 SET(S) @ 2ND FLOOR; ABOVE COMP. RM. 114 GRID 5 - 7

STEEL LEGEND
S1 = 1" x 3 3/4" 10 GA.

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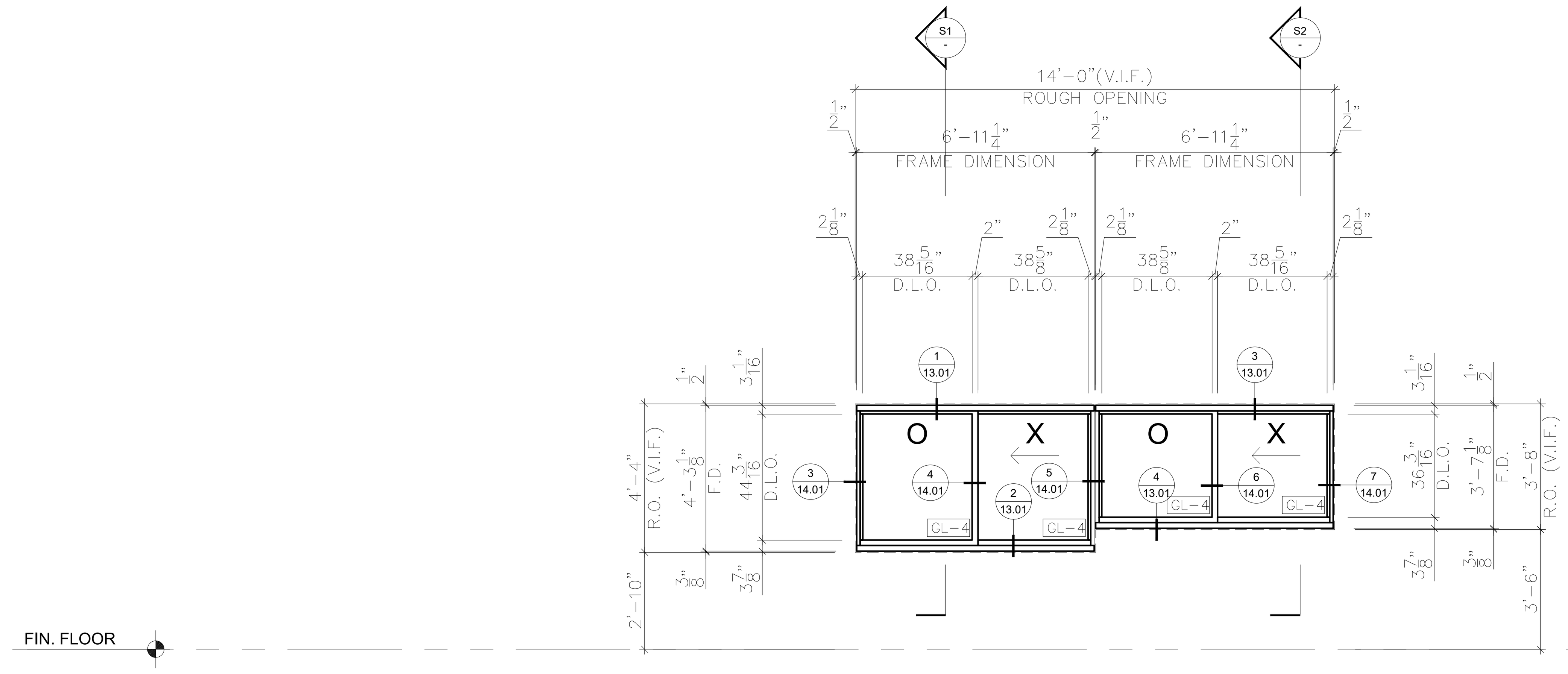
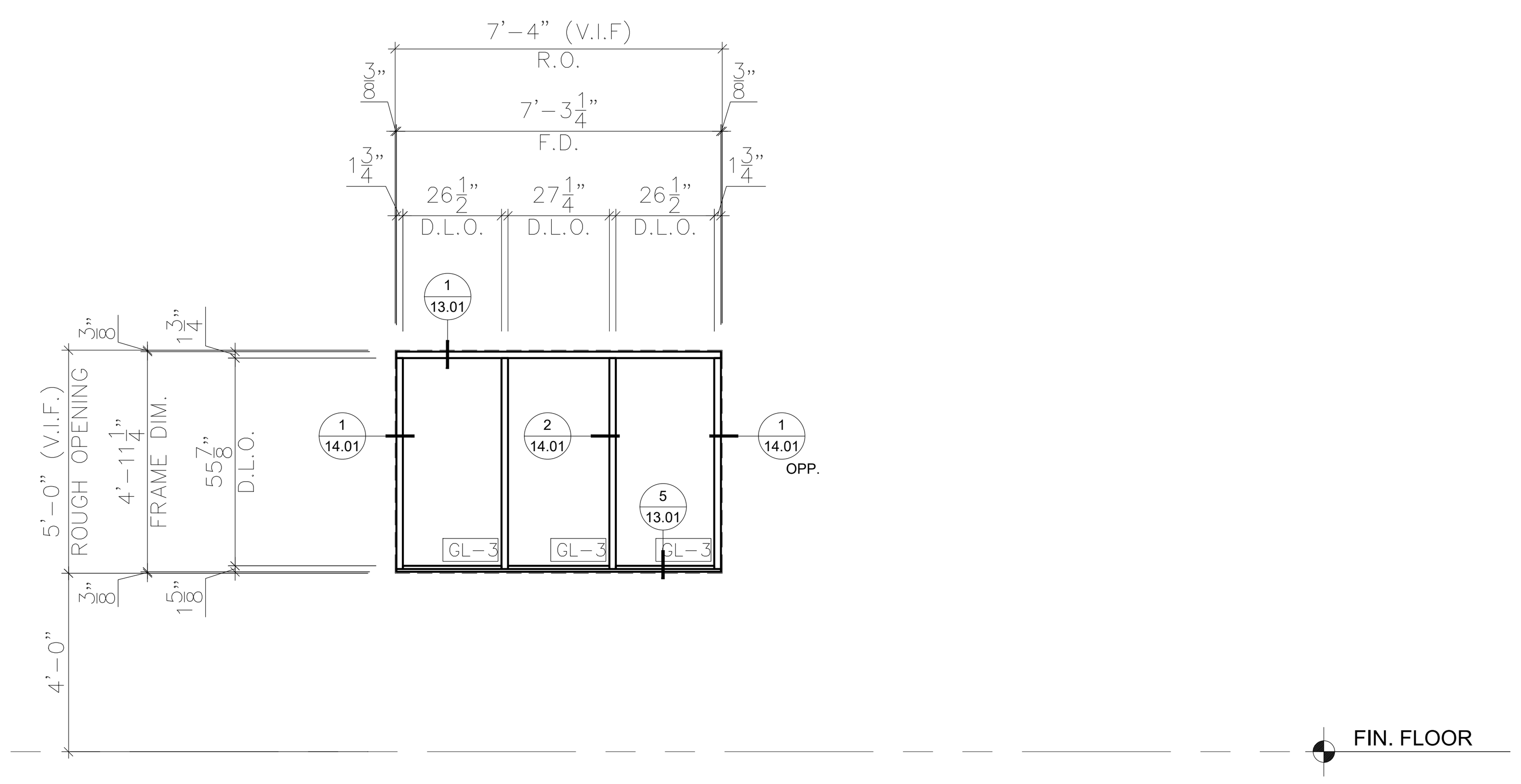
drawing title:
ELEVATIONS
A-400 (INTERIOR)

drawing no.:
CW 6.01

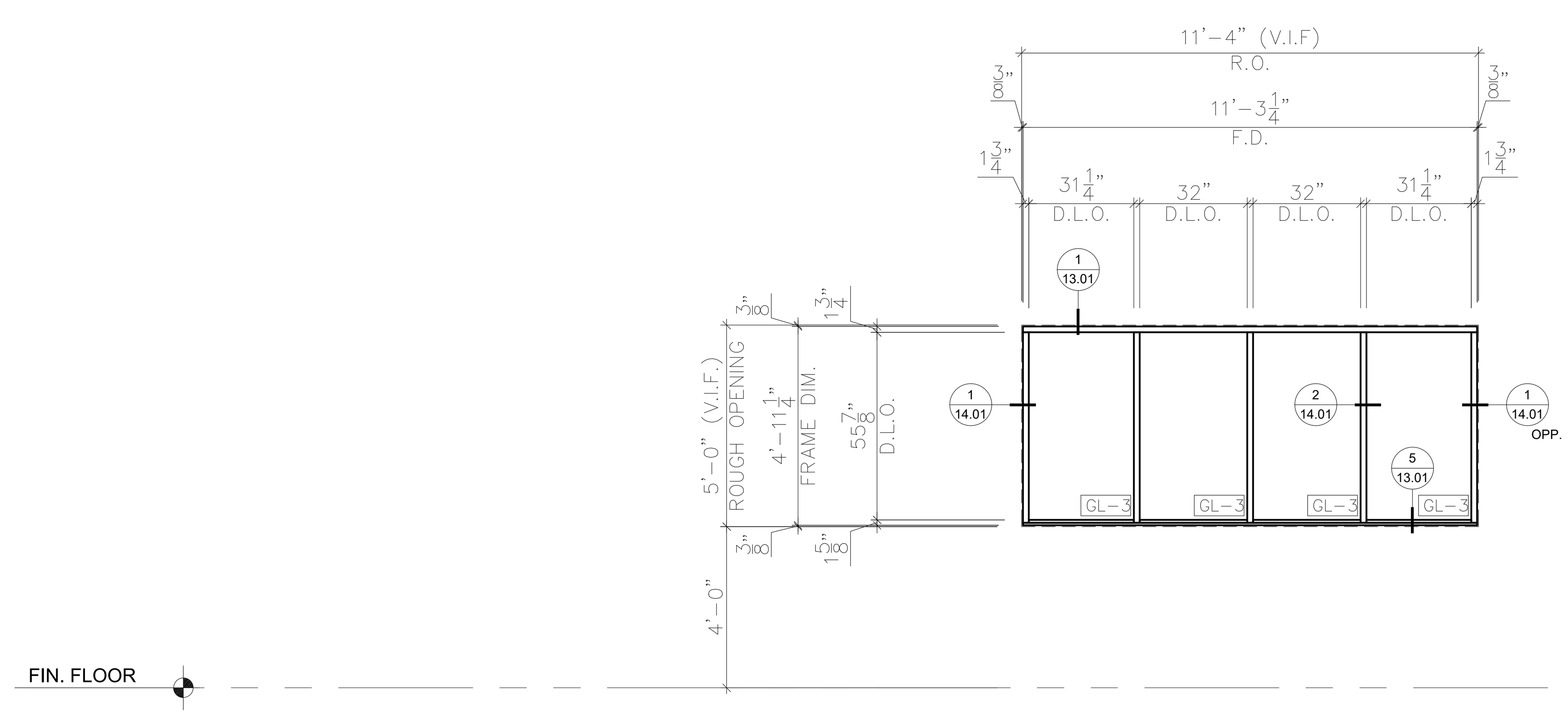


ALI-108 WINDOW ELEVATION
(Ref. Arch : AL110/8.51)
- FRAME : 2 1/8" Sightline 4" Frame ULT-500 Series
- GLASS : 1" GLASS
- Q'TY : 1 SET @ OPEN OFFICE RM # 161 (INTERIOR ELEVATION)

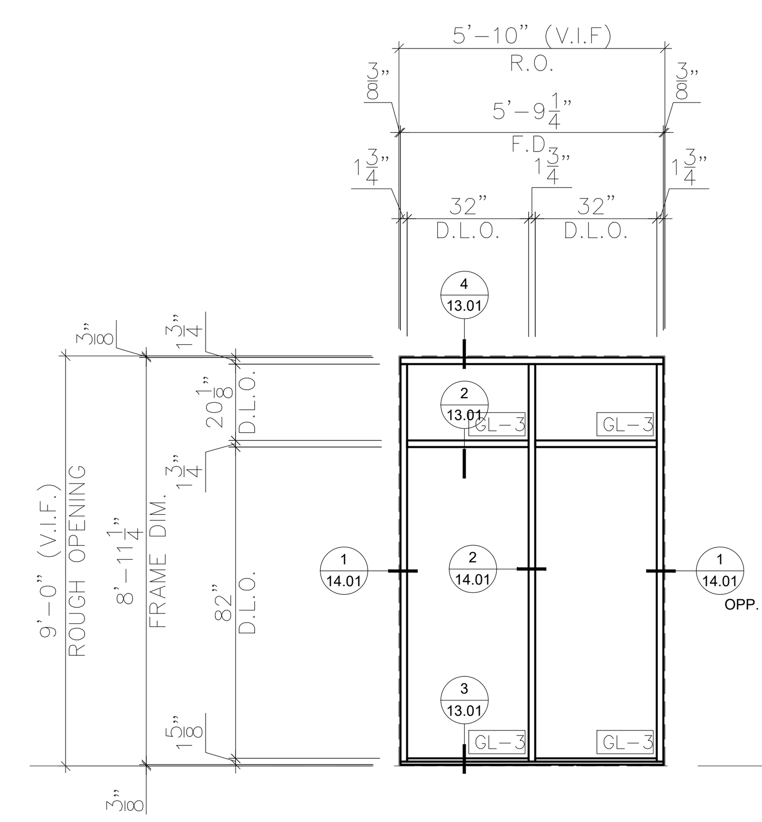
ALI-115 WINDOW ELEVATION
(Ref. Arch : AL115/8.51)
- FRAME : 2 1/8" Sightline 4" Frame ULT-500 Series
- GLASS : 1" GLASS
- Q'TY : 1 SET @ OPEN OFFICE RM # 161 (INTERIOR ELEVATION)



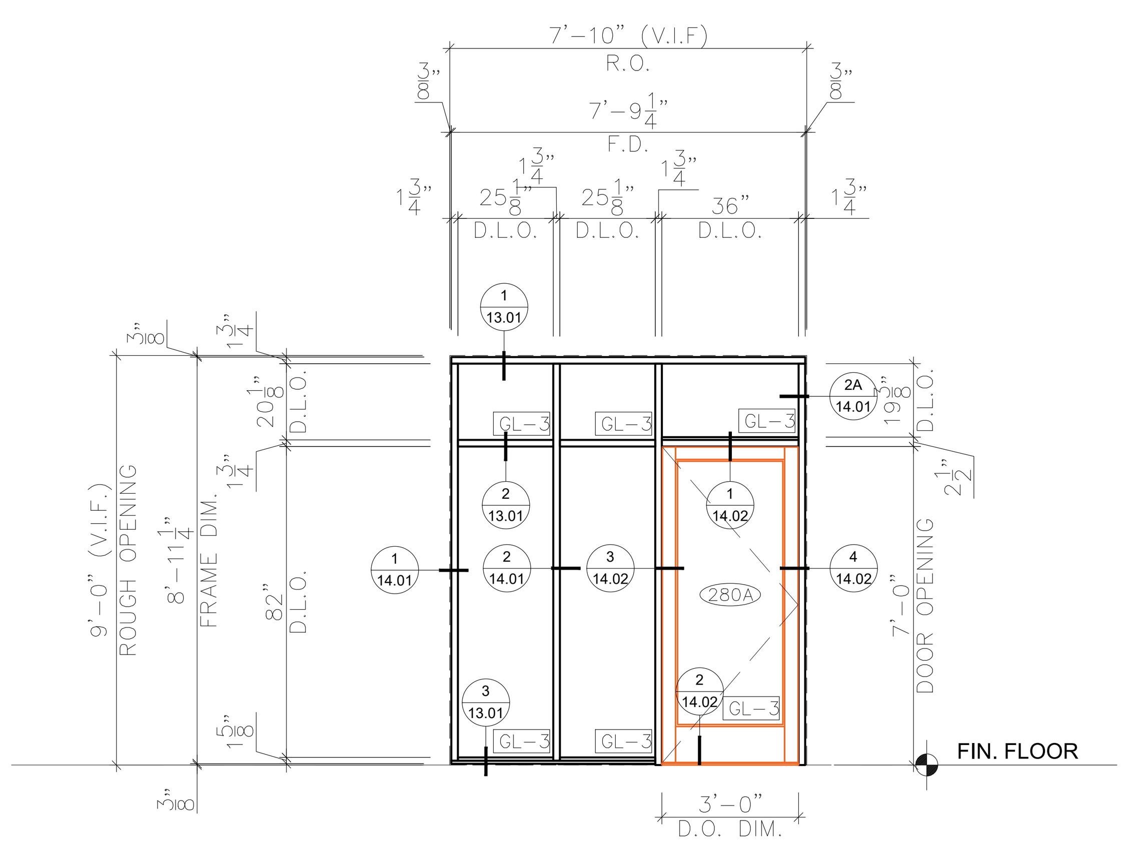
ALI-105 WINDOW WALL ELEVATION
(Ref. Arch : ALI-105/8.51)
- FRAME : 1 3/4" x 4" A-400 SERIES
- GLASS : 1/4" GLASS
- Q'TY : 1 SET(S) @ RM 160 (INTERIOR ELEVATION)



ALI-106 WINDOW WALL ELEVATION
(Ref. Arch : ALI-106/8.51)
- FRAME : 1 3/4" x 4" A-400 SERIES
- GLASS : 1/4" GLASS
- Q'TY : 1 SET(S) @ RM 160 (INTERIOR ELEVATION)



ALI-204 WINDOW WALL ELEVATION
(Ref. Arch : ALI-204/-)
- FRAME : 1 3/4" x 4" A-400 SERIES
- GLASS : 1/4" GLASS
- Q'TY : 1 SET(S) (INTERIOR ELEVATION)



ALI-205 WINDOW WALL ELEVATION
(Ref. Arch : ALI-205/-)
- FRAME : 1 3/4" x 4" A-400 SERIES
- GLASS : 1/4" GLASS
- DOOR : ARCADIA MEDIUM STILE MS362HD
- Q'TY : 1 SET(S) @ RM 280B (INTERIOR ELEVATION)

DOOR #280A
HINGE RIGHT SWING IN
H/W: TBA
WxH=3'-0"x7'-0"

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tBP project number: 20987.00

file name:

drawn by: checked by:

date: 9.2.2019

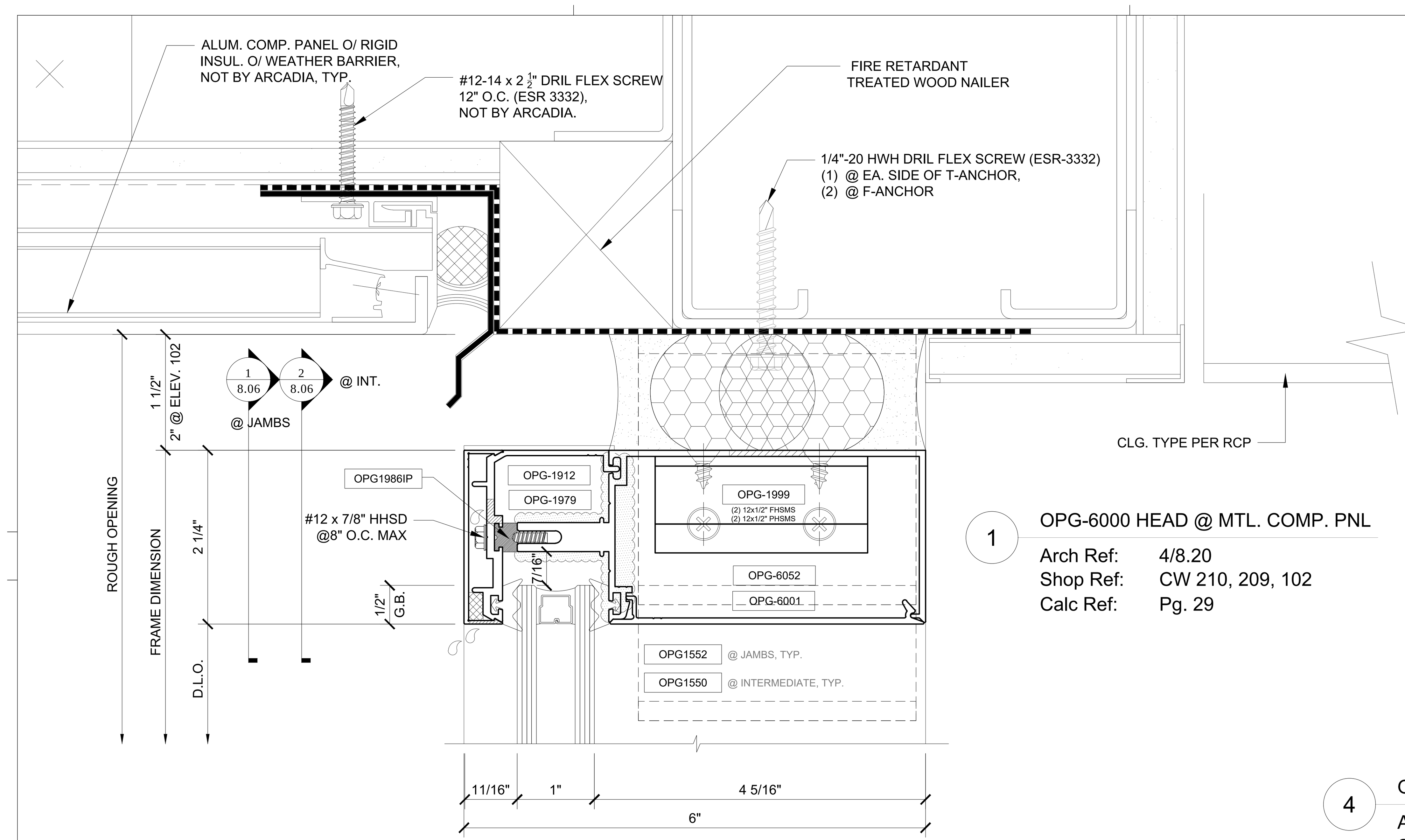
rev: date: description:

drawing title:

ELEVATIONS A-400 (INTERIOR)

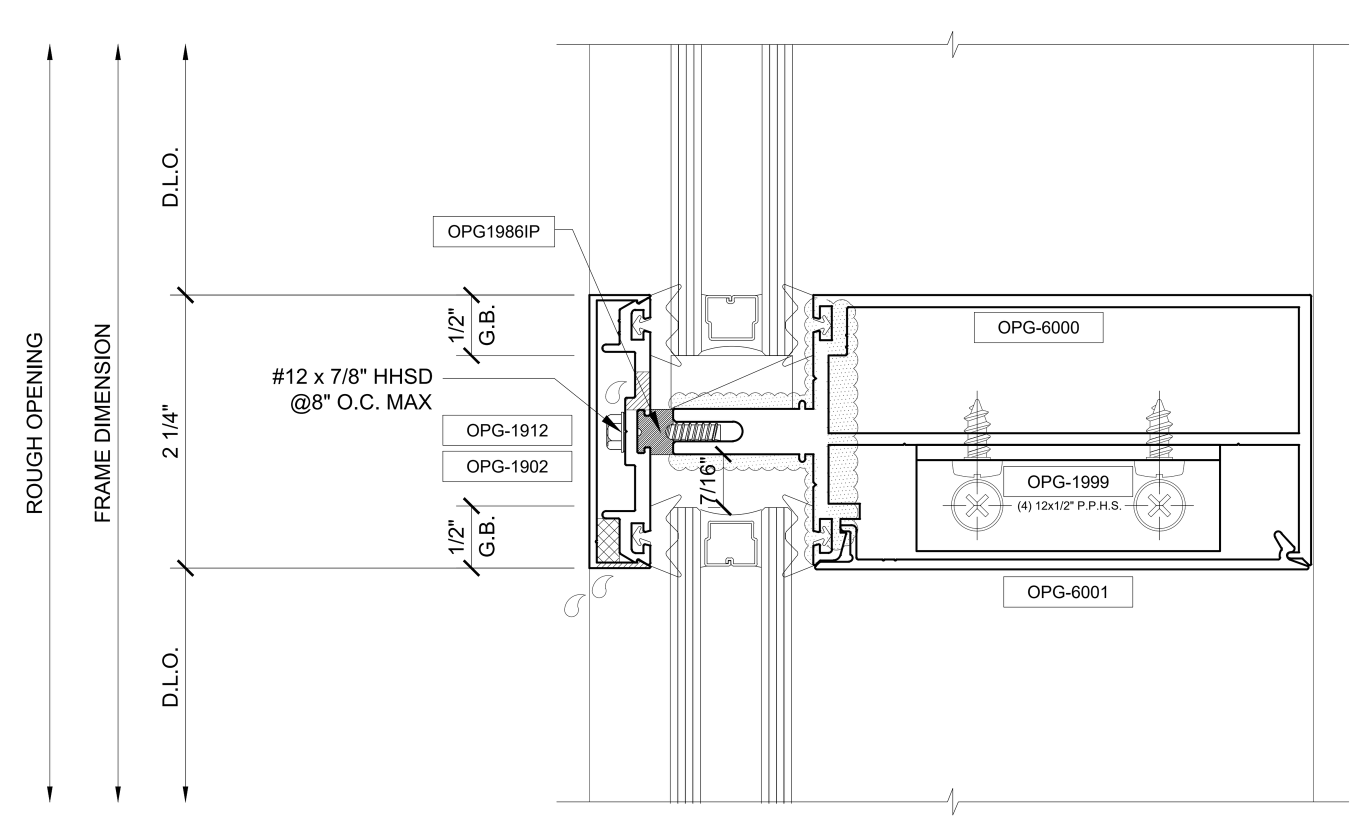
drawing no.:

CW 6.02



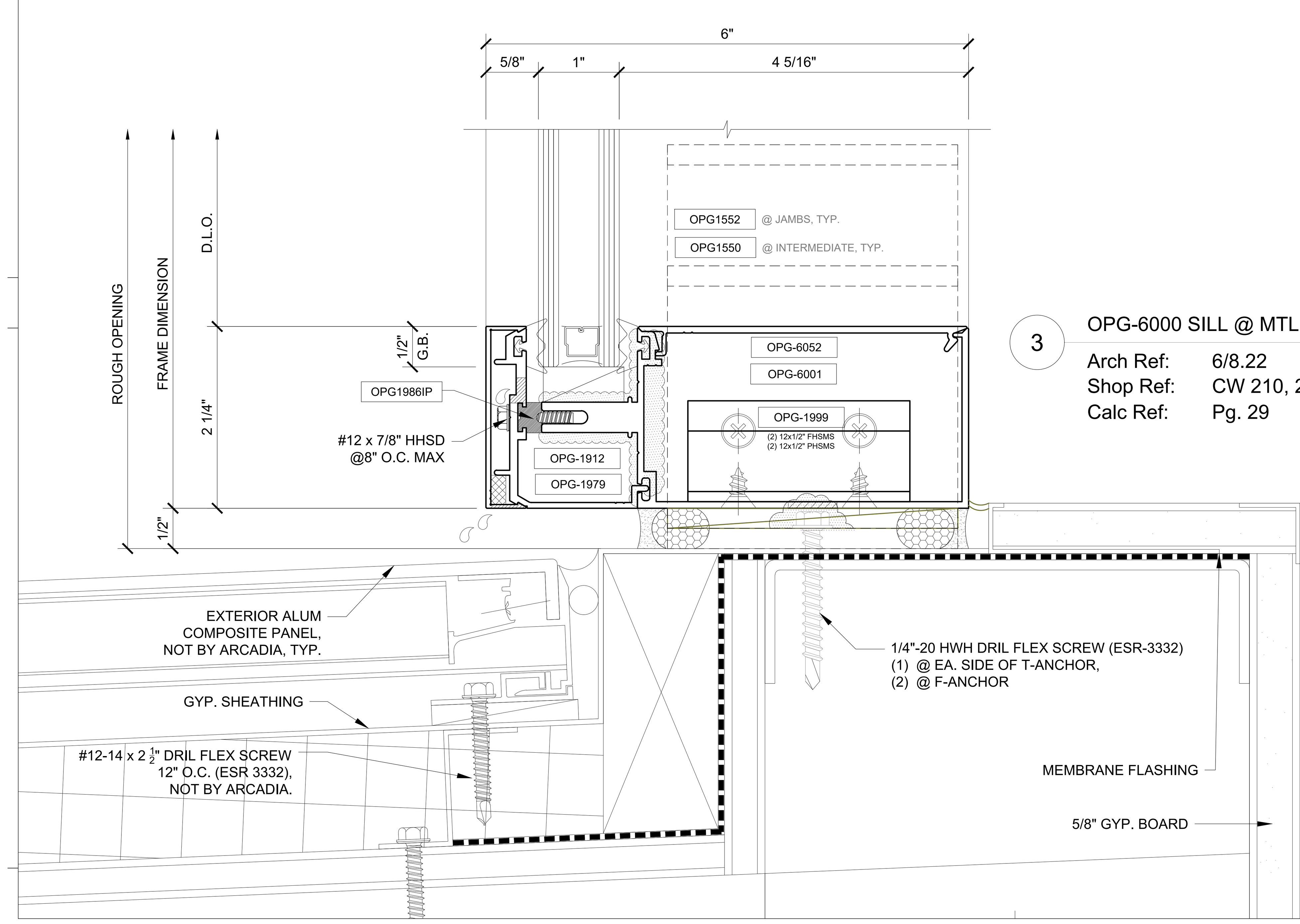
1 OPG-6000 HEAD @ MTL. COMP. PNL

Arch Ref: 4/8.20
Shop Ref: CW 210, 209, 102
Calc Ref: Pg. 29



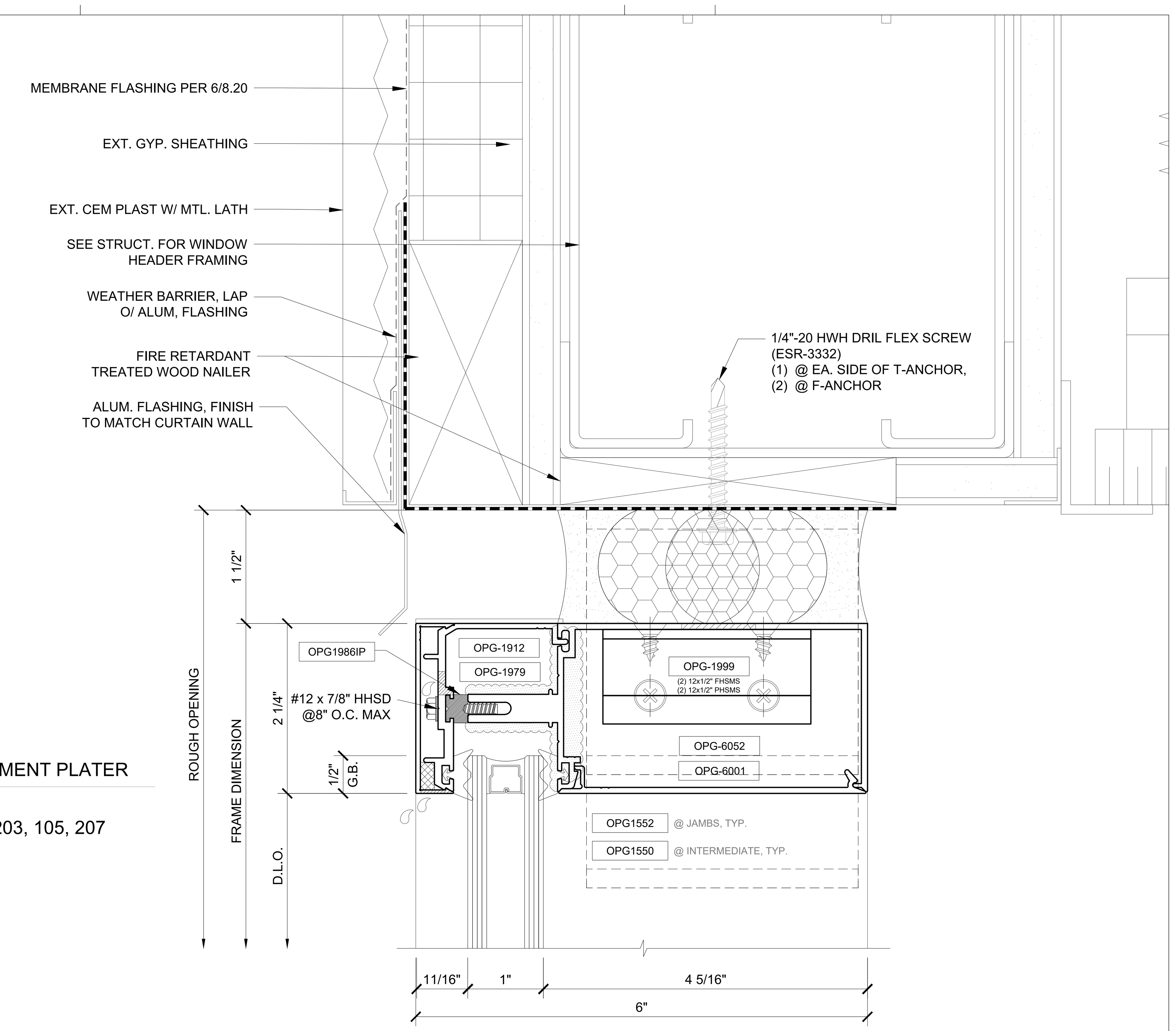
2 OPG-6000 INTERMEDIATE HORIZ.

Arch Ref: 10B/8.22
Shop Ref: CW 210, 209, 102
Calc Ref: -



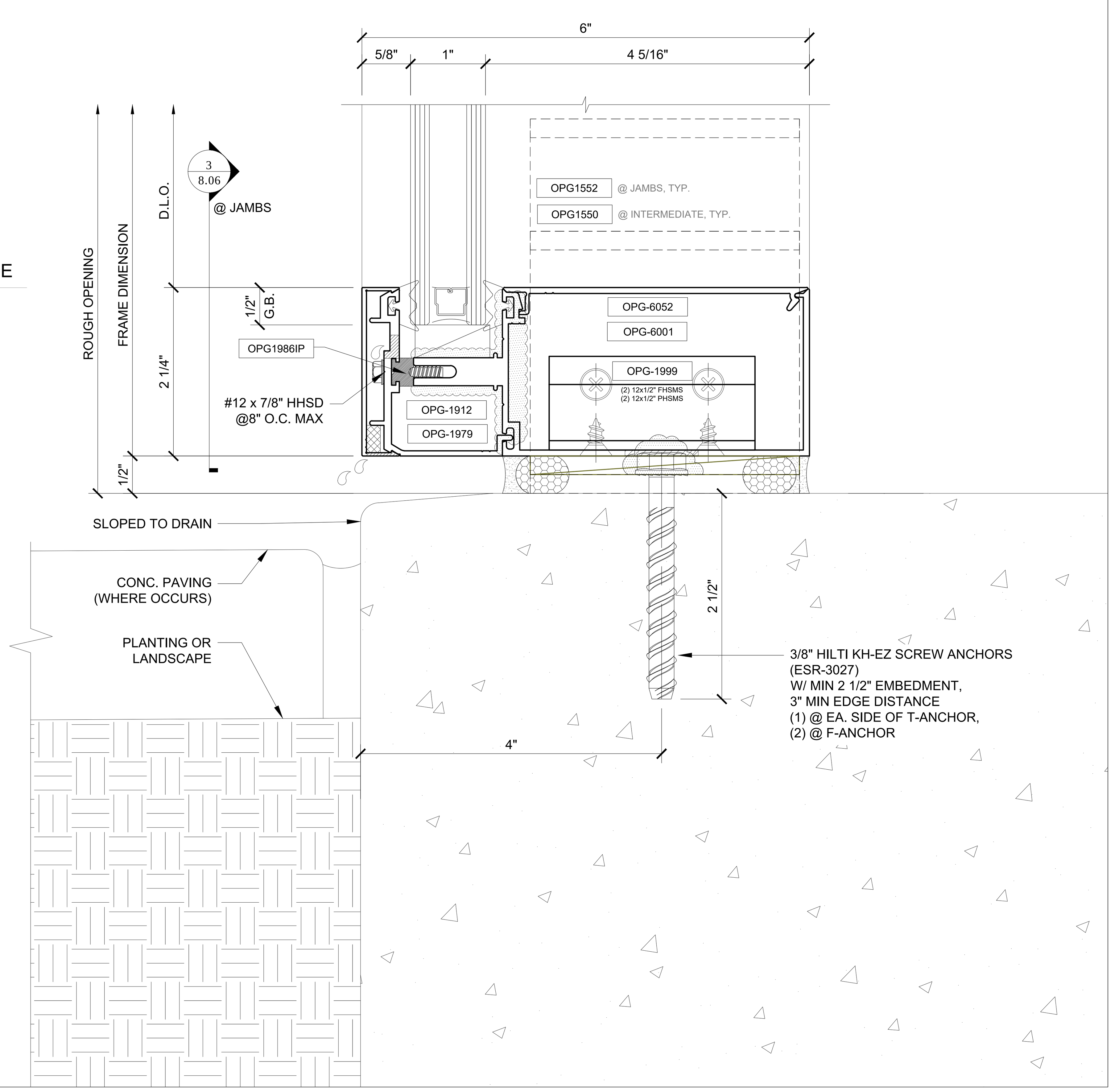
3 OPG-6000 SILL @ MTL. PNL.

Arch Ref: 6/8.22
Shop Ref: CW 210, 209
Calc Ref: Pg. 29



4 OPG-6000 HEAD @ CEMENT PLATER

Arch Ref: 5/8.22
Shop Ref: CW 204, 203, 105, 207
Calc Ref: Pg. 29



5 OPG-6000 SILL @ GRADE

Arch Ref: 8/8.22
Shop Ref: CW 102
Calc Ref: Pg. 30

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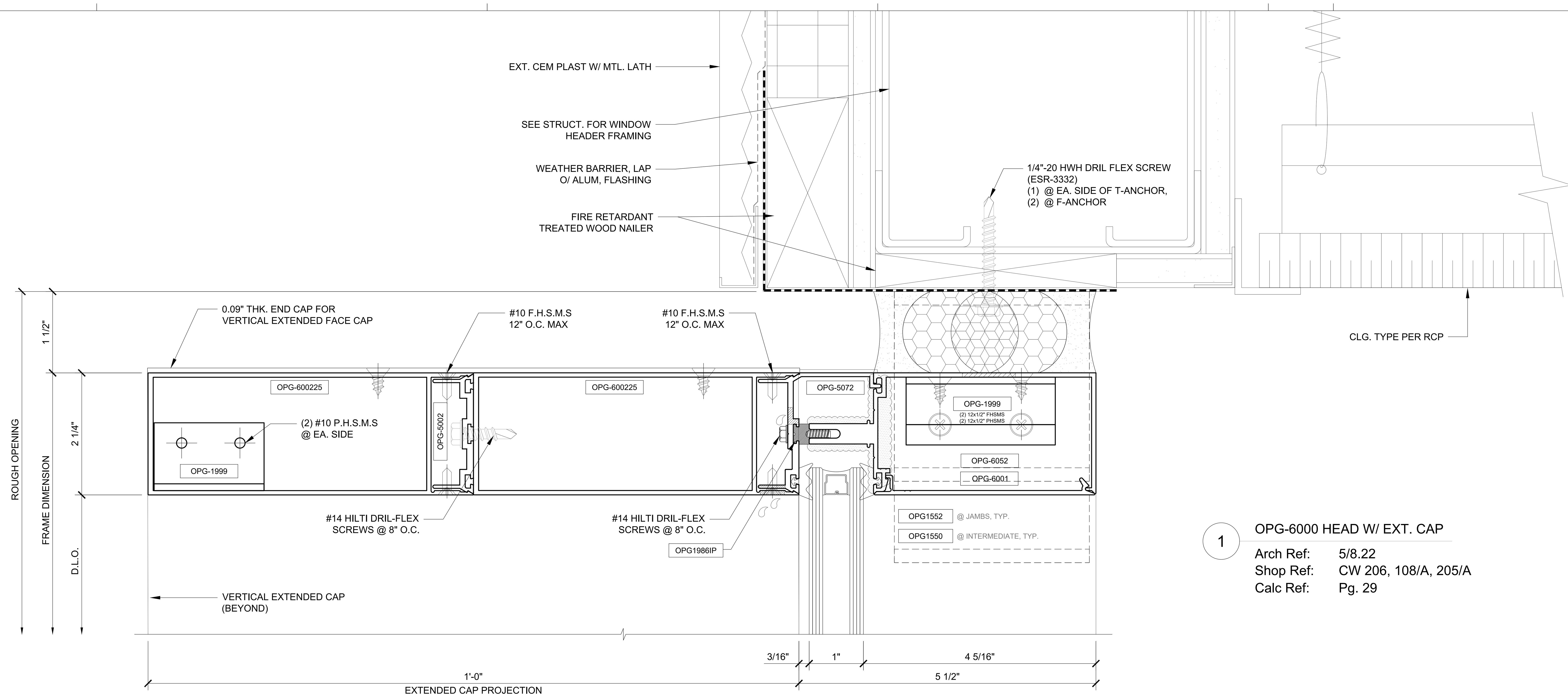
tBP project number: 20987.00
file name:
drawn by: checked by:
date: 9.2.2019
rev: date: description:

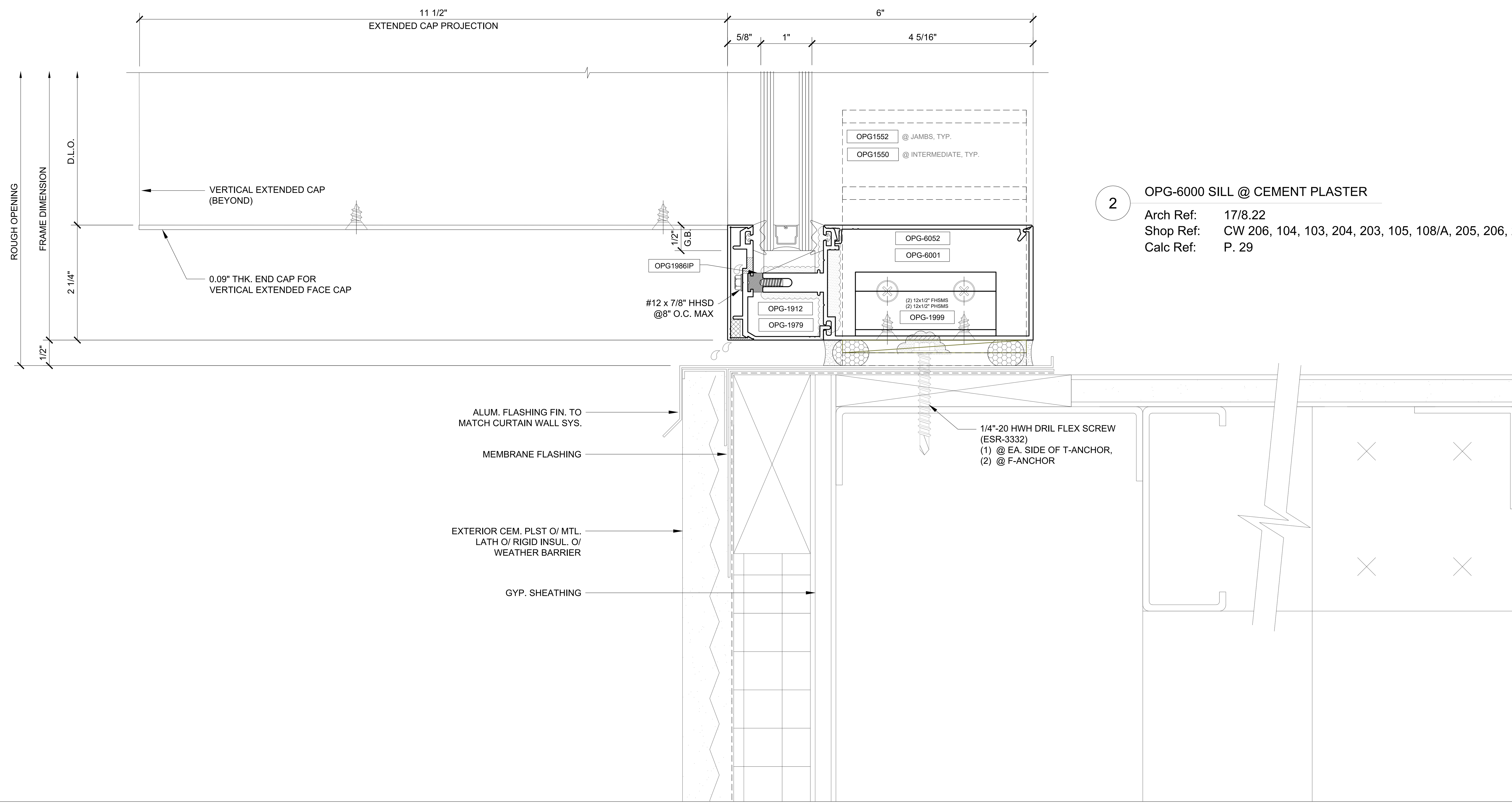
drawing title:
HORIZ. DETAILS
OPG-6000

drawing no.:
CW 7.01



1 OPG-6000 HEAD W/ EXT. CAP

Arch Ref: 5/8.22
Shop Ref: CW 206, 108/A, 205/A
Calc Ref: Pg. 29



2 OPG-6000 SILL @ CEMENT PLASTER

Arch Ref: 17/8.22
Shop Ref: CW 206, 104, 103, 204, 203, 105, 108/A, 205, 206, 207
Calc Ref: P. 29

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drawing title:
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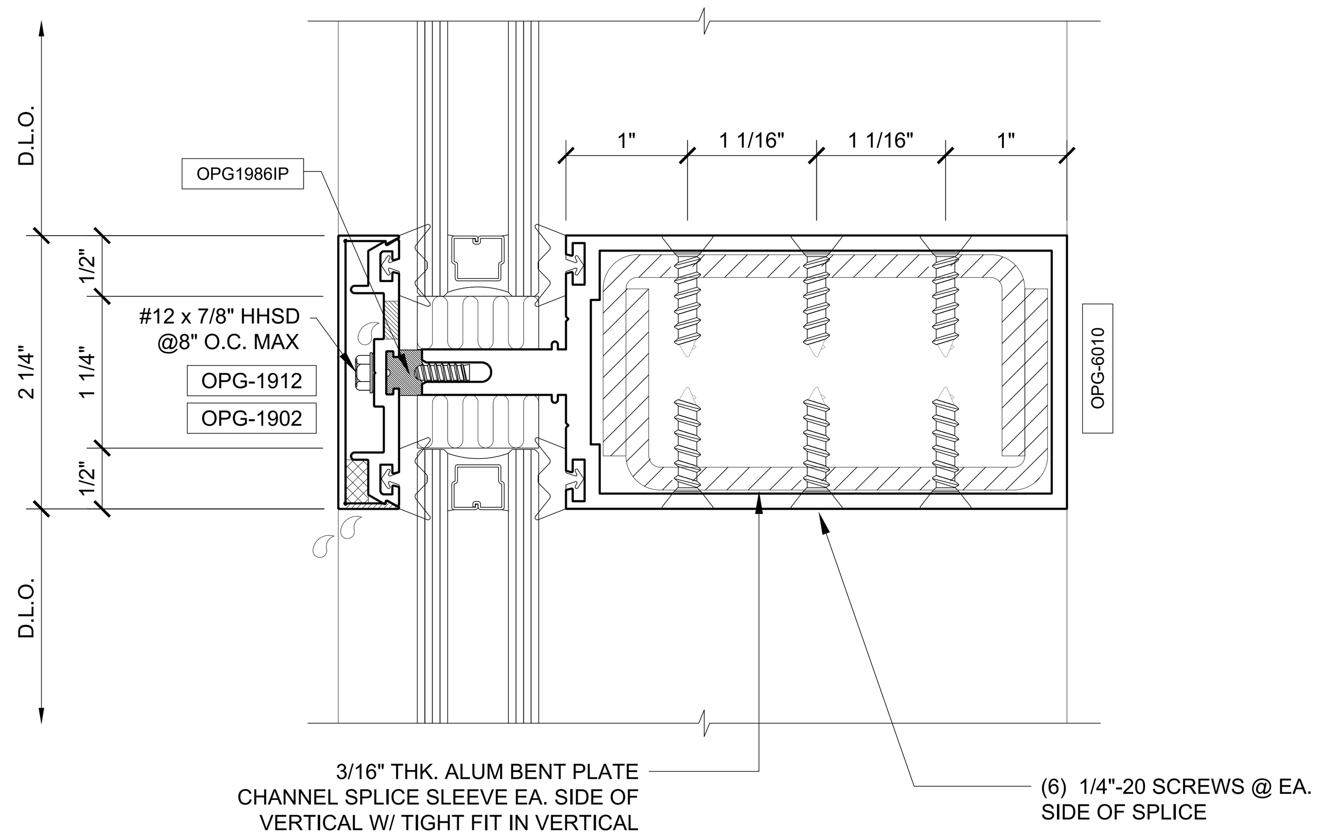
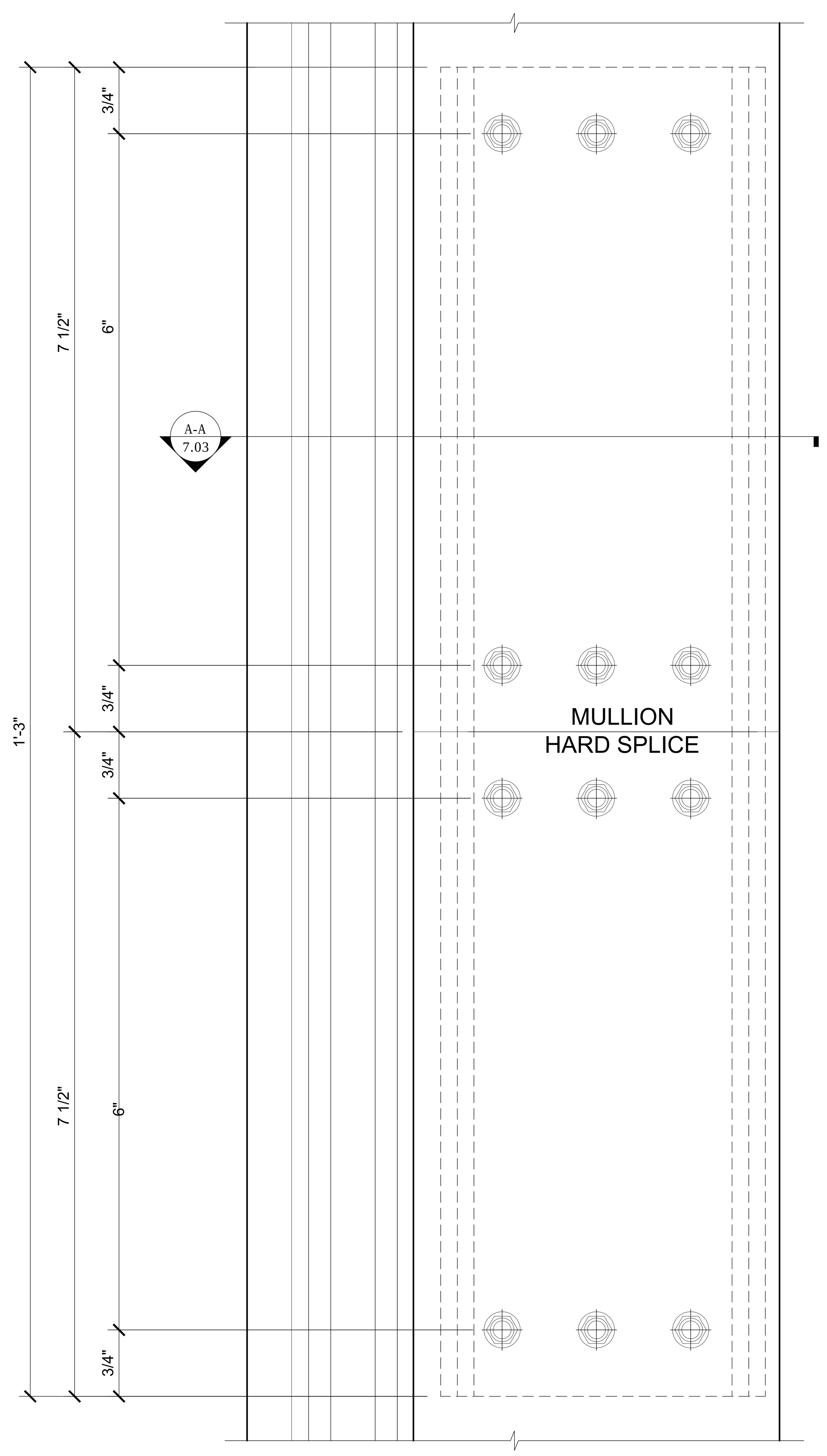
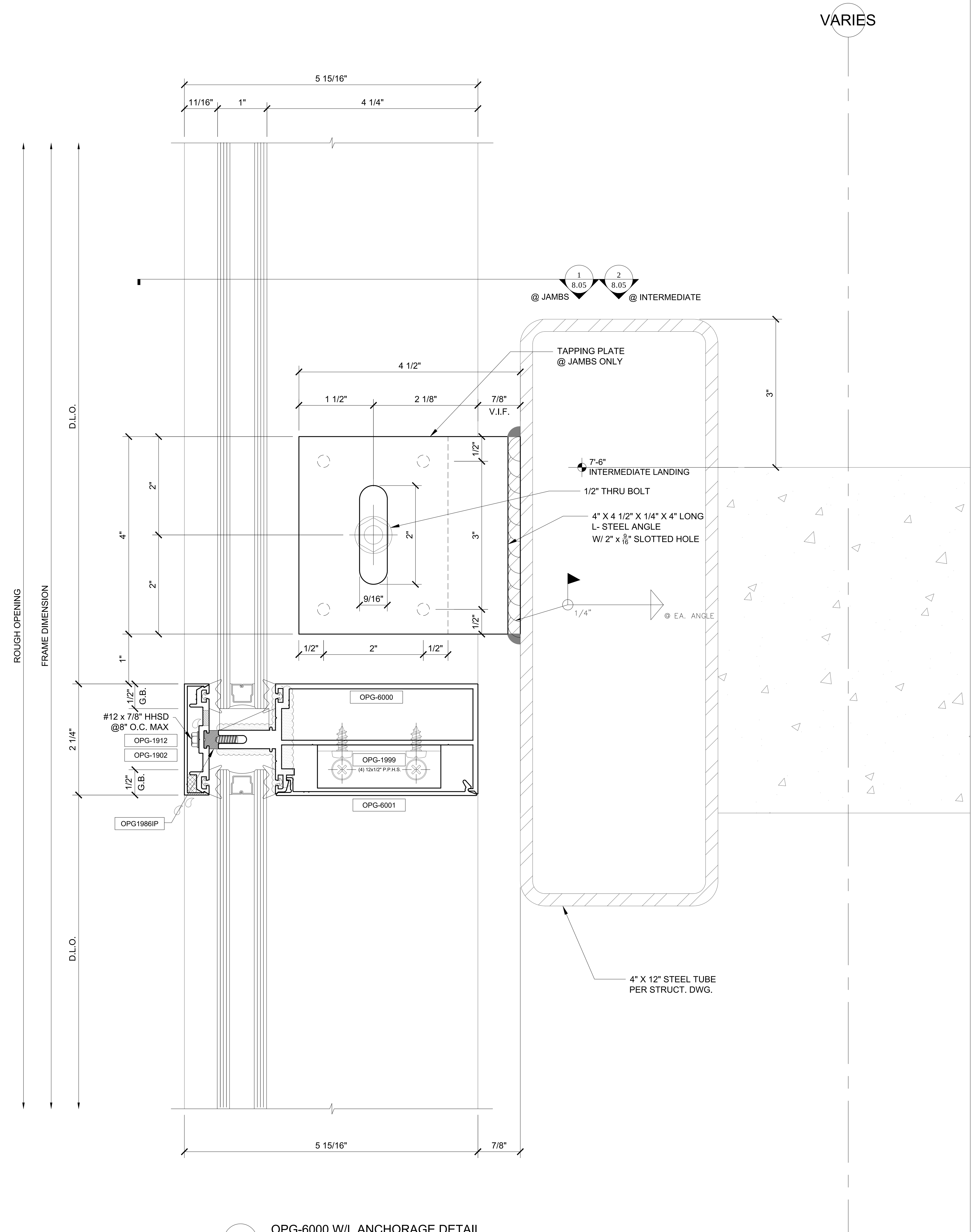
OPG-6000

drawing no.:
CW 7.02



SECTION A-A





1 OPG-6000 MULLION @ HARD SPLICE JOINT

Arch Ref: -
Shop Ref: CW 102
Calc Ref: Pg. 54

2 OPG-6000 W/L ANCHORAGE DETAIL

Arch Ref: 11/13.02
Shop Ref: CW 102
Calc Ref: Pg. 53

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drawing title:
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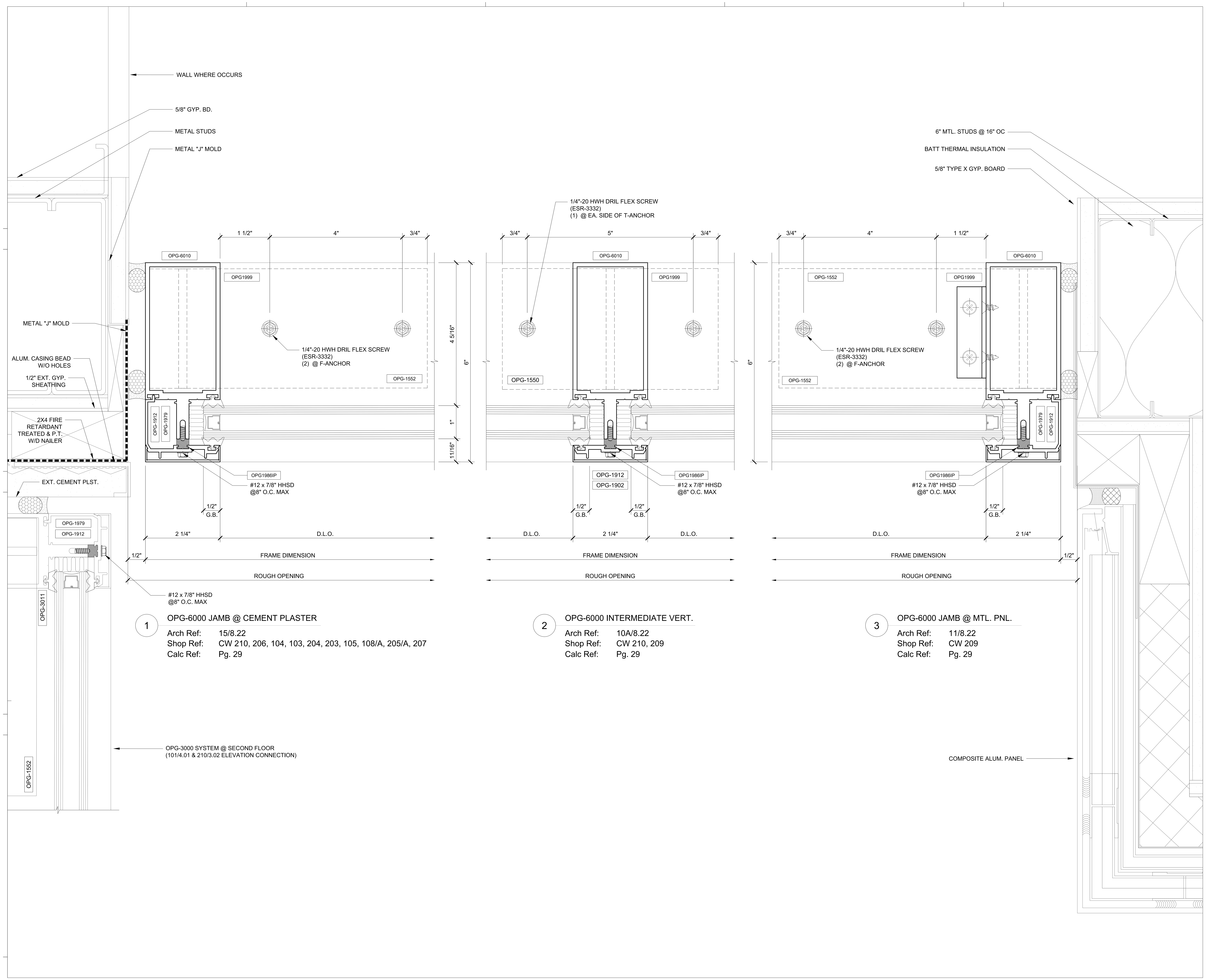
OPG-6000

drawing no.:
CW 7.03



1 OPG-6000 JAMB @ CEMENT PLASTER

Arch Ref: 15/8.22
Shop Ref: CW 210, 206, 104, 103, 204, 203, 105, 108/A, 205/A, 207
Calc Ref: Pg. 29

2 OPG-6000 INTERMEDIATE VERT.

Arch Ref: 10A/8.22
Shop Ref: CW 210, 209
Calc Ref: Pg. 29

3 OPG-6000 JAMB @ MTL. PNL.

Arch Ref: 11/8.22
Shop Ref: CW 209
Calc Ref: Pg. 29

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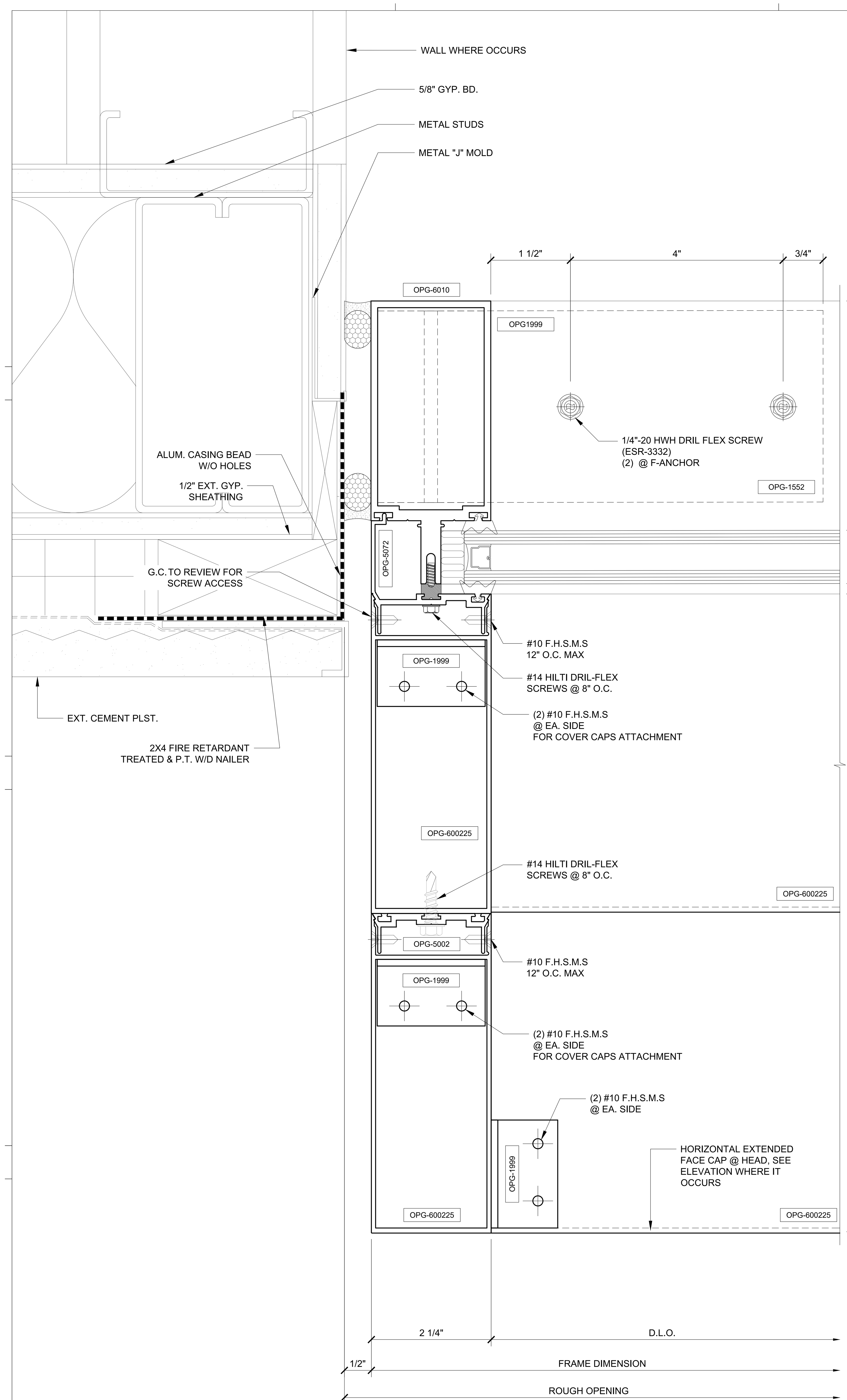
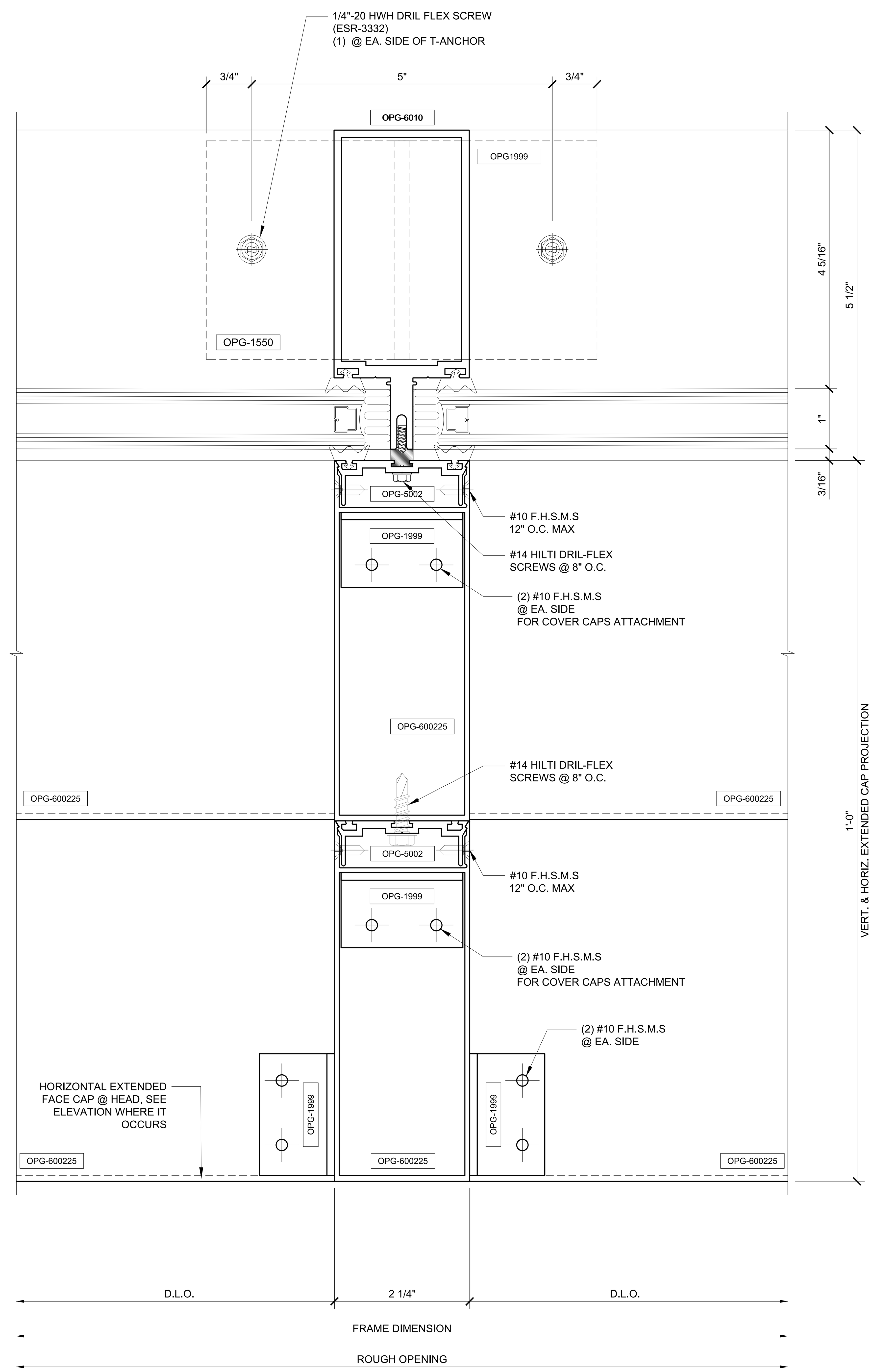
file name:
drawn by: checked by:
date: 9.2.2019
rev: date: description:

drawing title:
VERT. DETAILS
OPG-6000

drawing no.:
CW 8.01



1 OPG-6000 JAMB W/ EXT. CAP
Arch Ref: 15/8.22
Shop Ref: CW 105, 108, 108A, 205, 205A, 207
Calc Ref: Pg. 29, 55



2 OPG-6000 INT. W/ EXT. CAP
Arch Ref: 10A/8.22
Shop Ref: CW 209, 206, 104, 103, 204, 203, 207
Calc Ref: Pg. 29, 55

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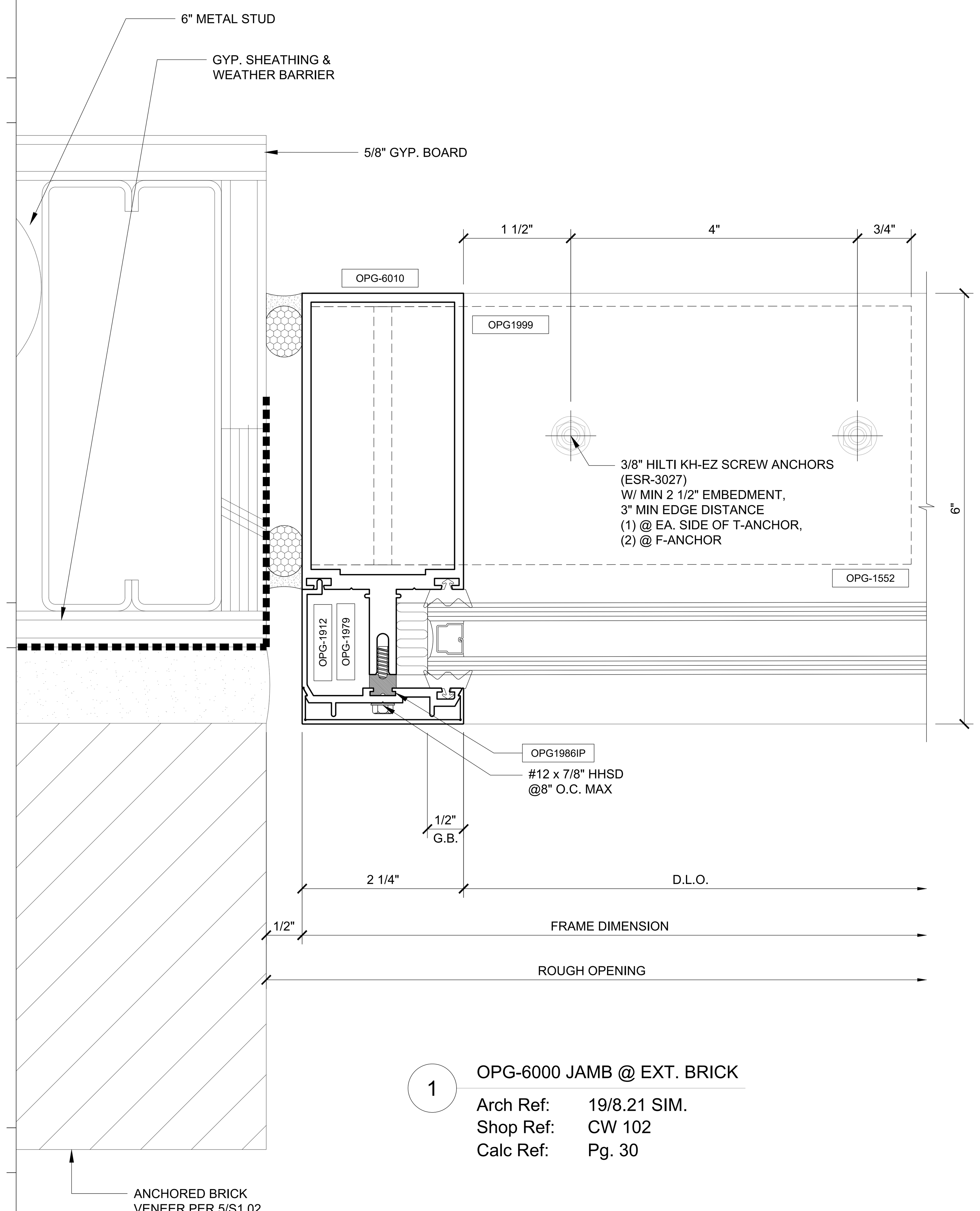
rev: date: description:

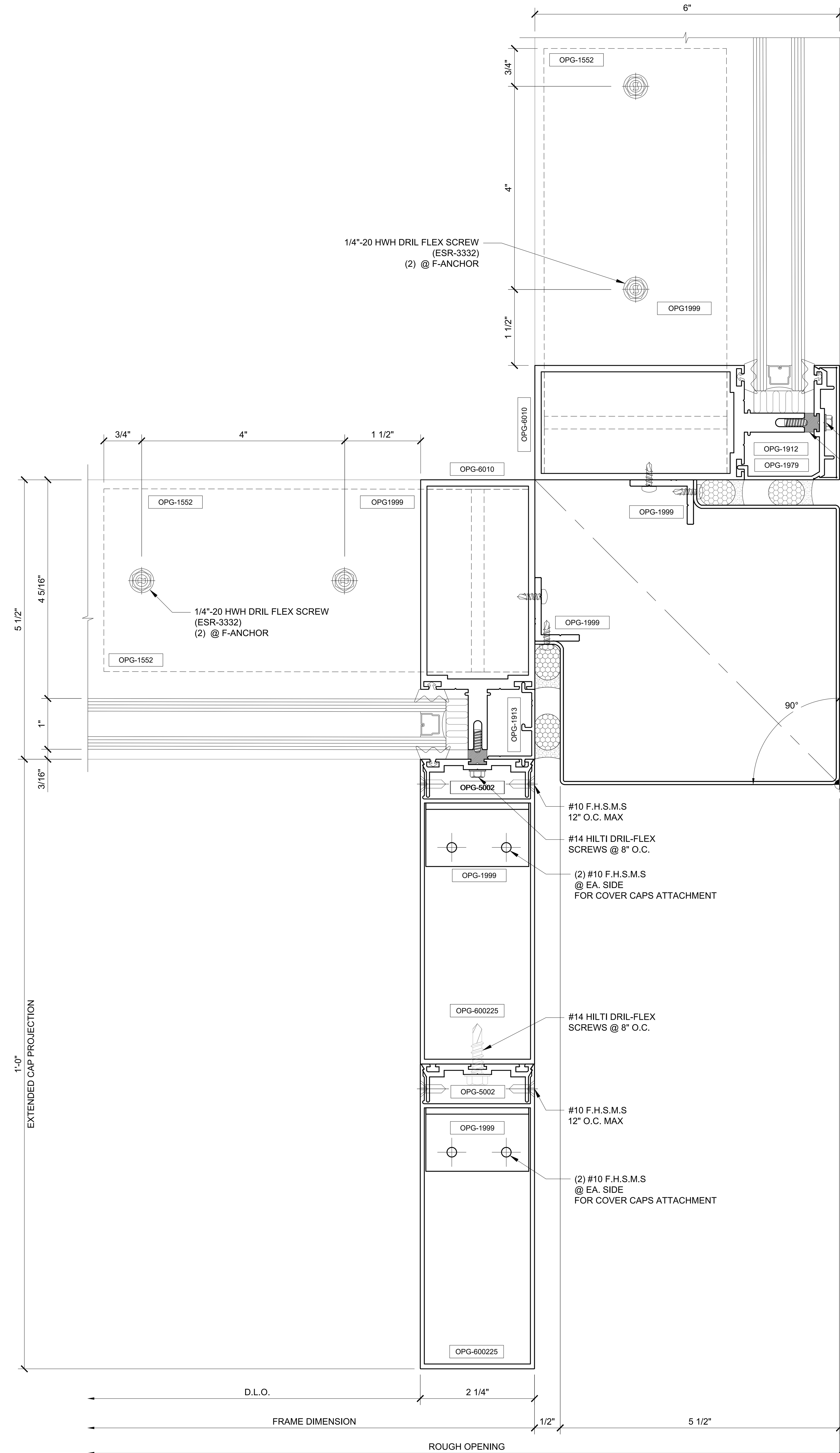
drawing title:
VERT. DETAILS
OPG-6000

drawing no.:
CW 8.02



1 OPG-6000 JAMB @ EXT. BRICK

Arch Ref: 19/8.21 SIM.
Shop Ref: CW 102
Calc Ref: Pg. 30



2 90° CORNER W/ EXTENDED CAP

Arch Ref: 18/8.20
Shop Ref: CW 104, 103, 204, 203
Calc Ref: Pg. 29, 55

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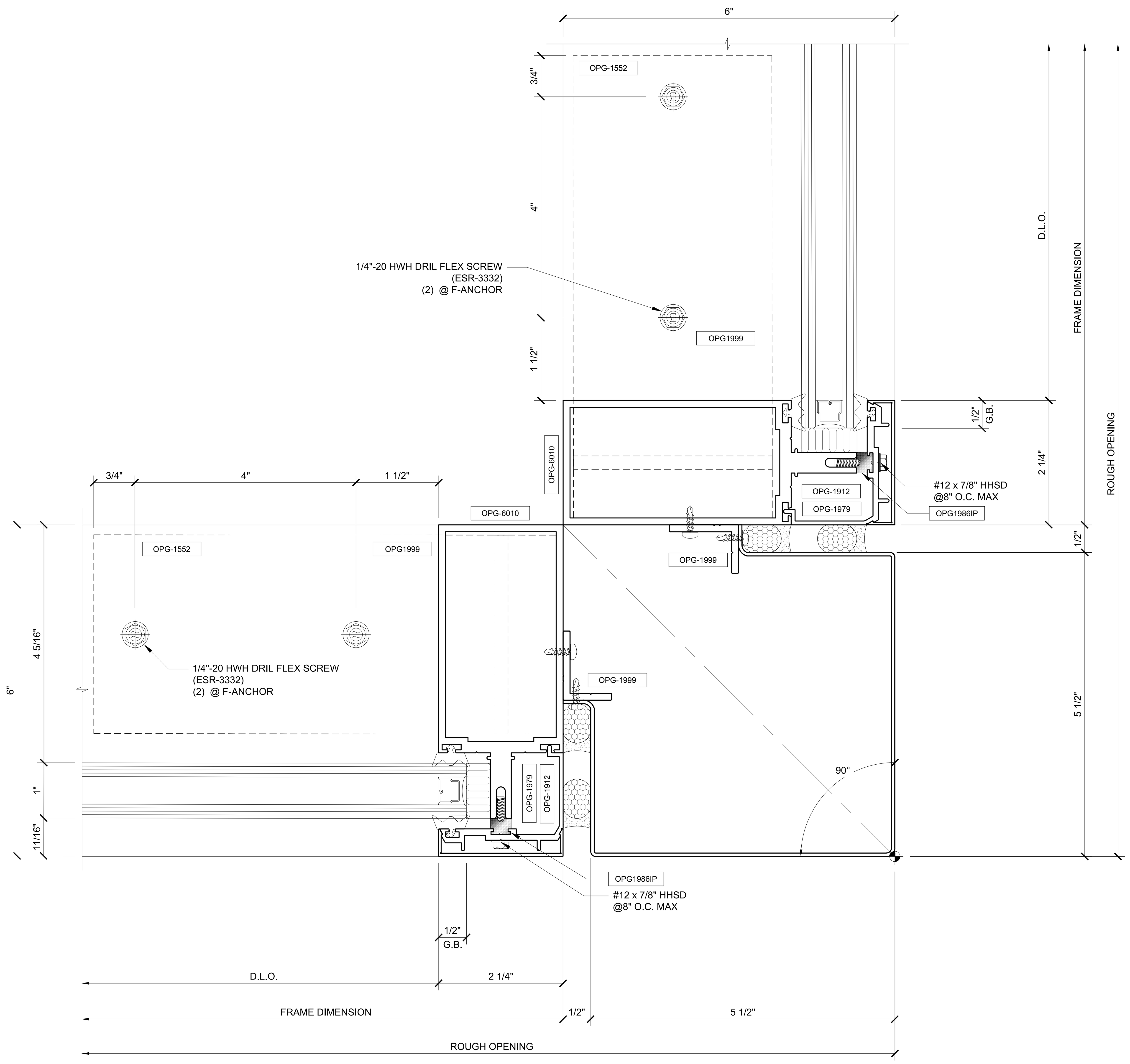
tBP project number: 20987.00
file name:
drawn by: checked by:
date: 9.2.2019
rev: date: description:

drawing title:

VERT. DETAILS OPG-6000

drawing no.:

CW 8.03



1 OPG-6000 JAMBS @ 90° CORNER

Arch Ref: -
Shop Ref: CW 210, 209
Calc Ref: Pg. 6

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tBP project number: 20987.00
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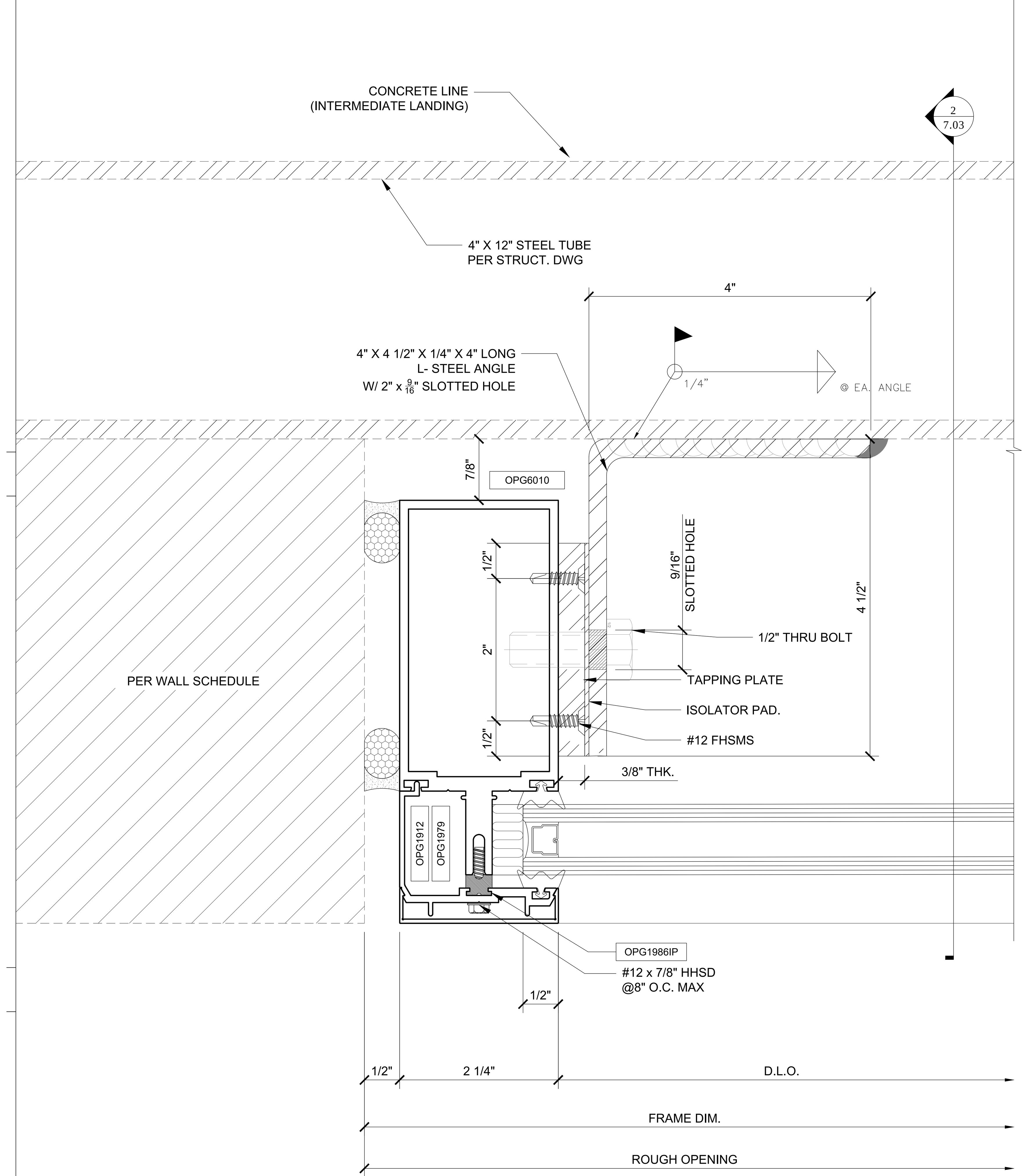
rev: date: description:

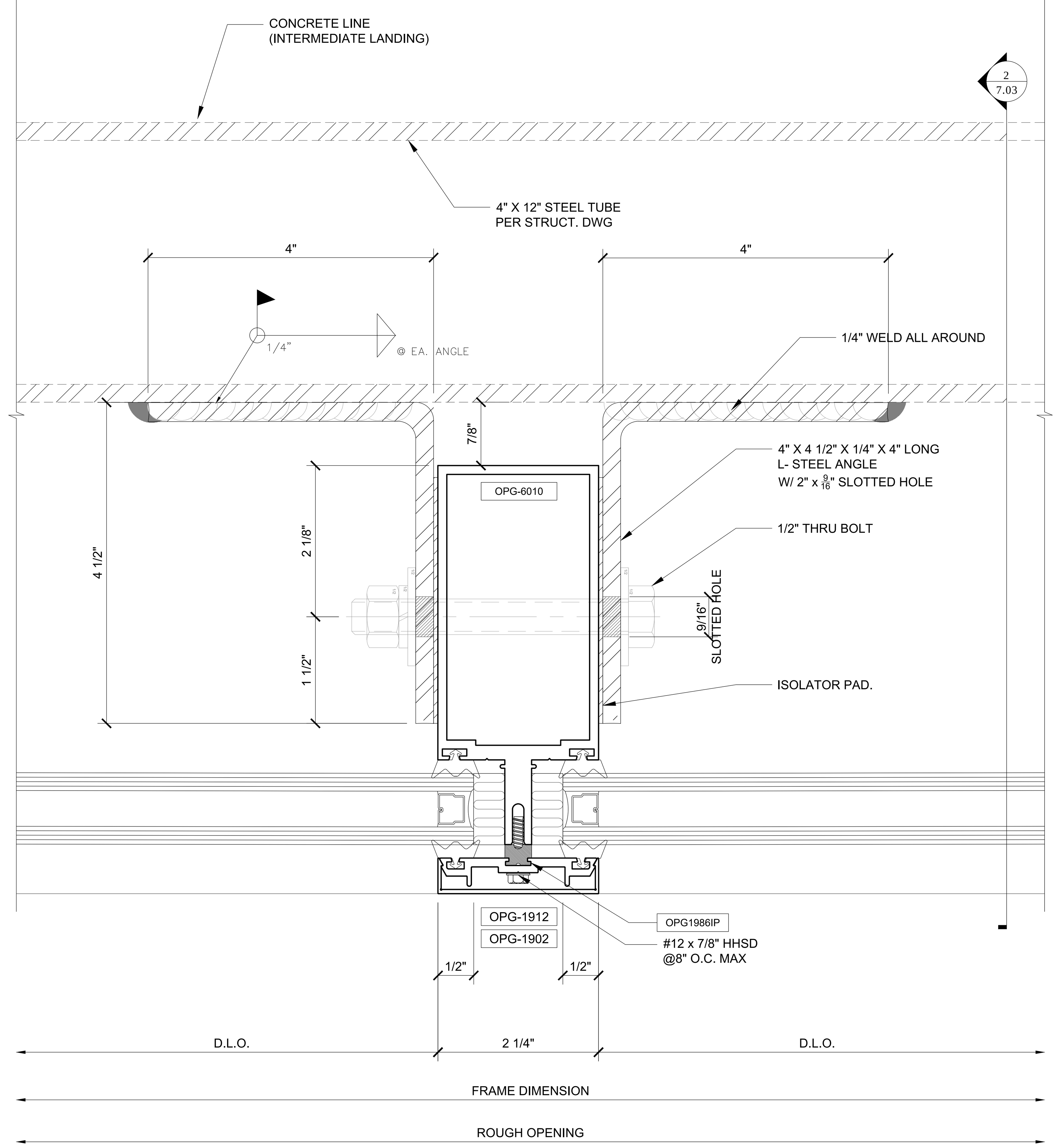
drawing title:
VERT. DETAILS
OPG-6000

drawing no.:
CW 8.04



1 OPG-6000 JAMB @ W/L ANCHOR

Arch Ref: 19A/8.22
Shop Ref: CW 102
Calc Ref: Pg. 53



2 OPG-6000 INT. @ W/L ANCHOR

Arch Ref: 19A/8.22 SIM.
Shop Ref: CW 102
Calc Ref: Pg. 53

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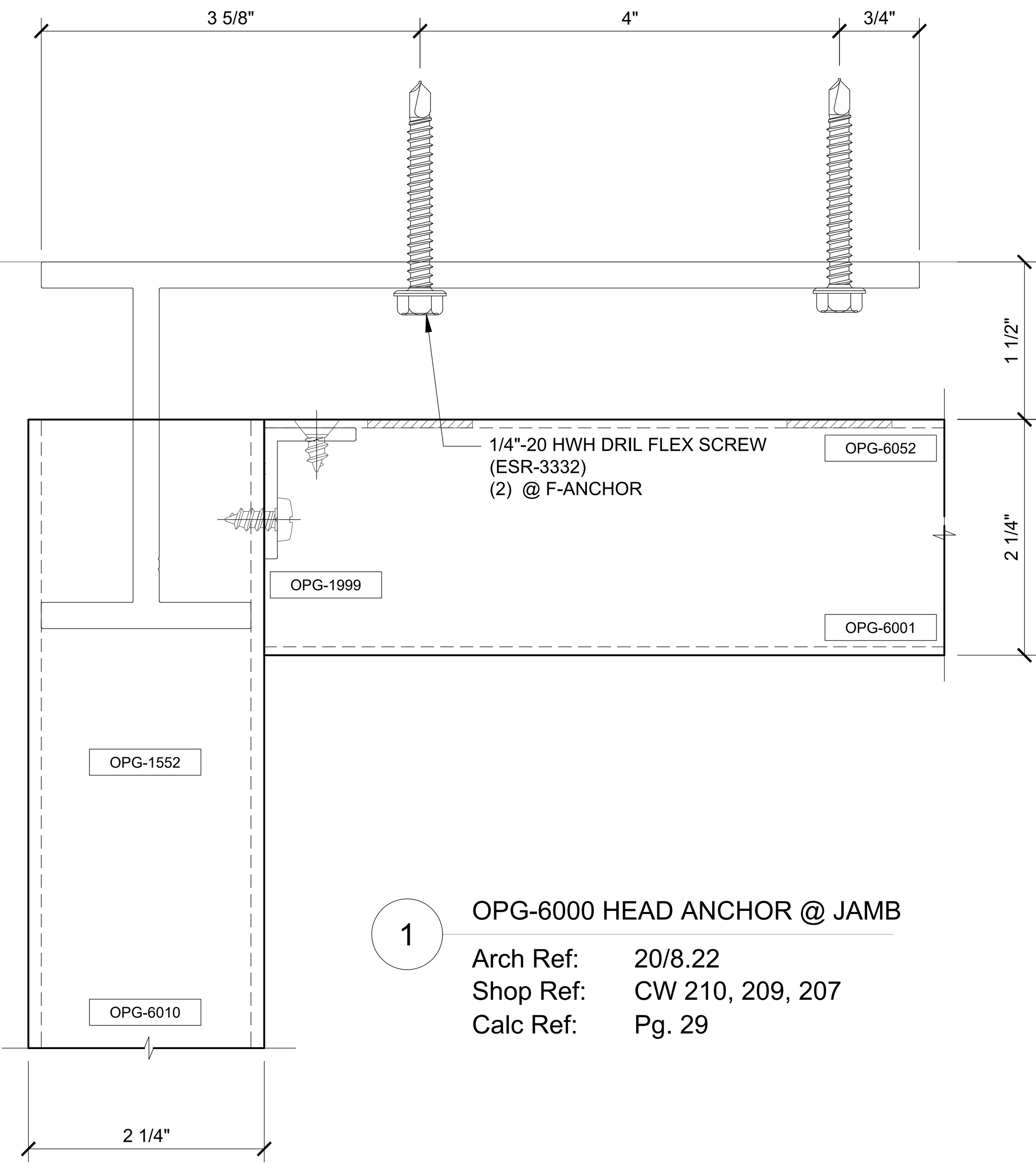
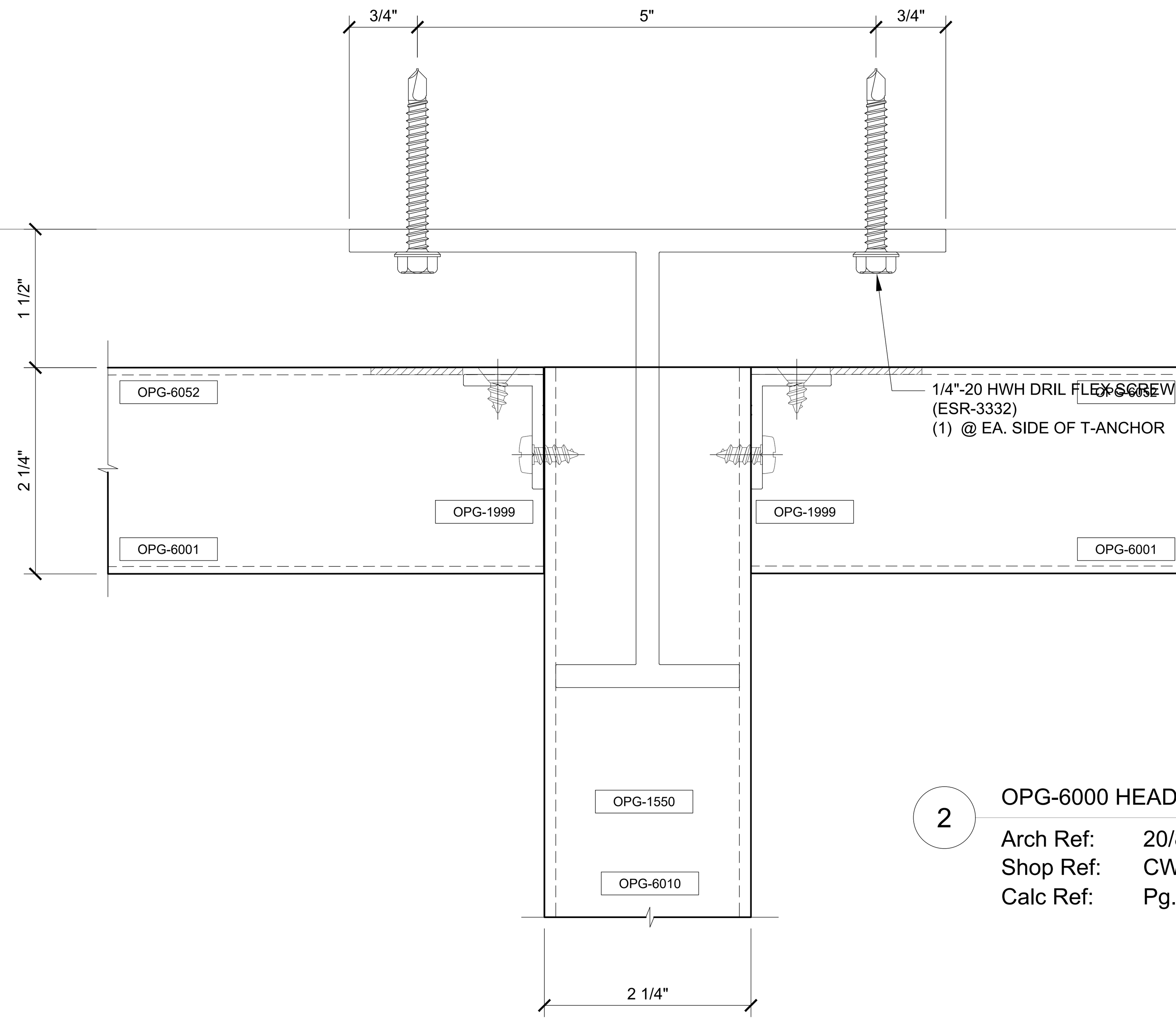
CW 8.05



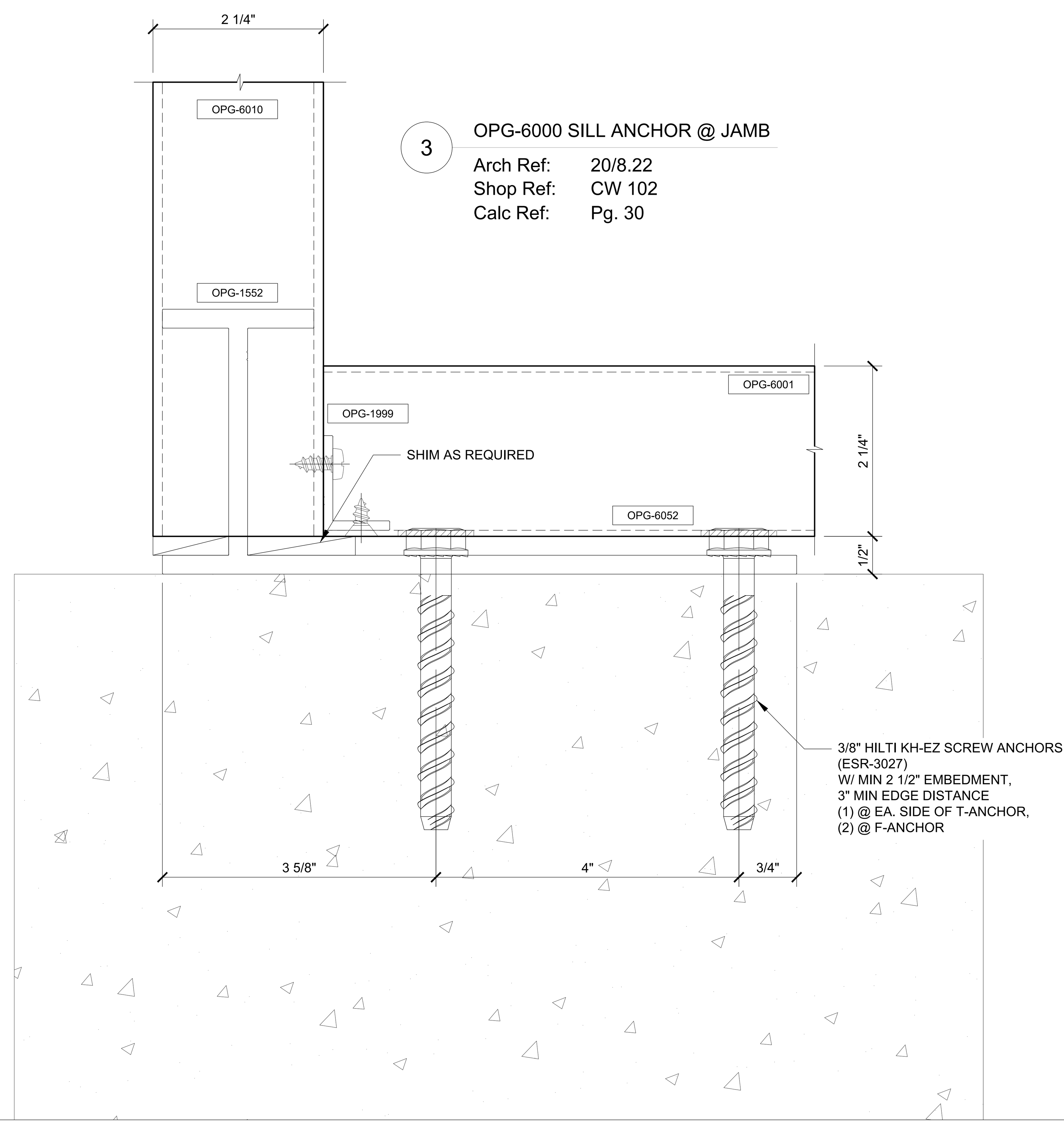
1 OPG-6000 HEAD ANCHOR @ JAMB

Arch Ref: 20/8.22
Shop Ref: CW 210, 209, 207
Calc Ref: Pg. 29



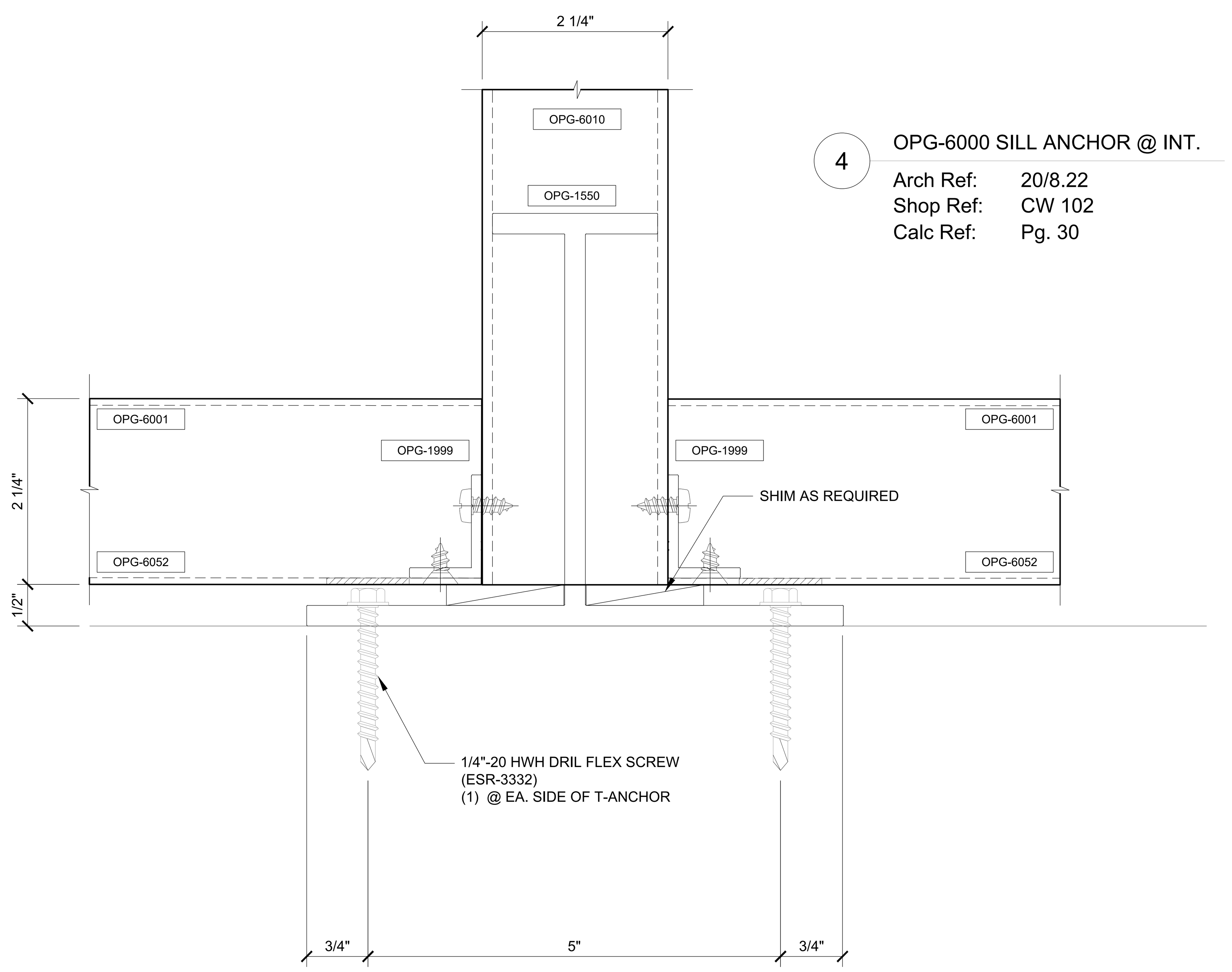
2 OPG-6000 HEAD ANCHOR @ INT.

Arch Ref: 20/8.22
Shop Ref: CW 210, 209, 207
Calc Ref: Pg. 29



3 OPG-6000 SILL ANCHOR @ JAMB

Arch Ref: 20/8.22
Shop Ref: CW 102
Calc Ref: Pg. 30



4 OPG-6000 SILL ANCHOR @ INT.

Arch Ref: 20/8.22
Shop Ref: CW 102
Calc Ref: Pg. 30

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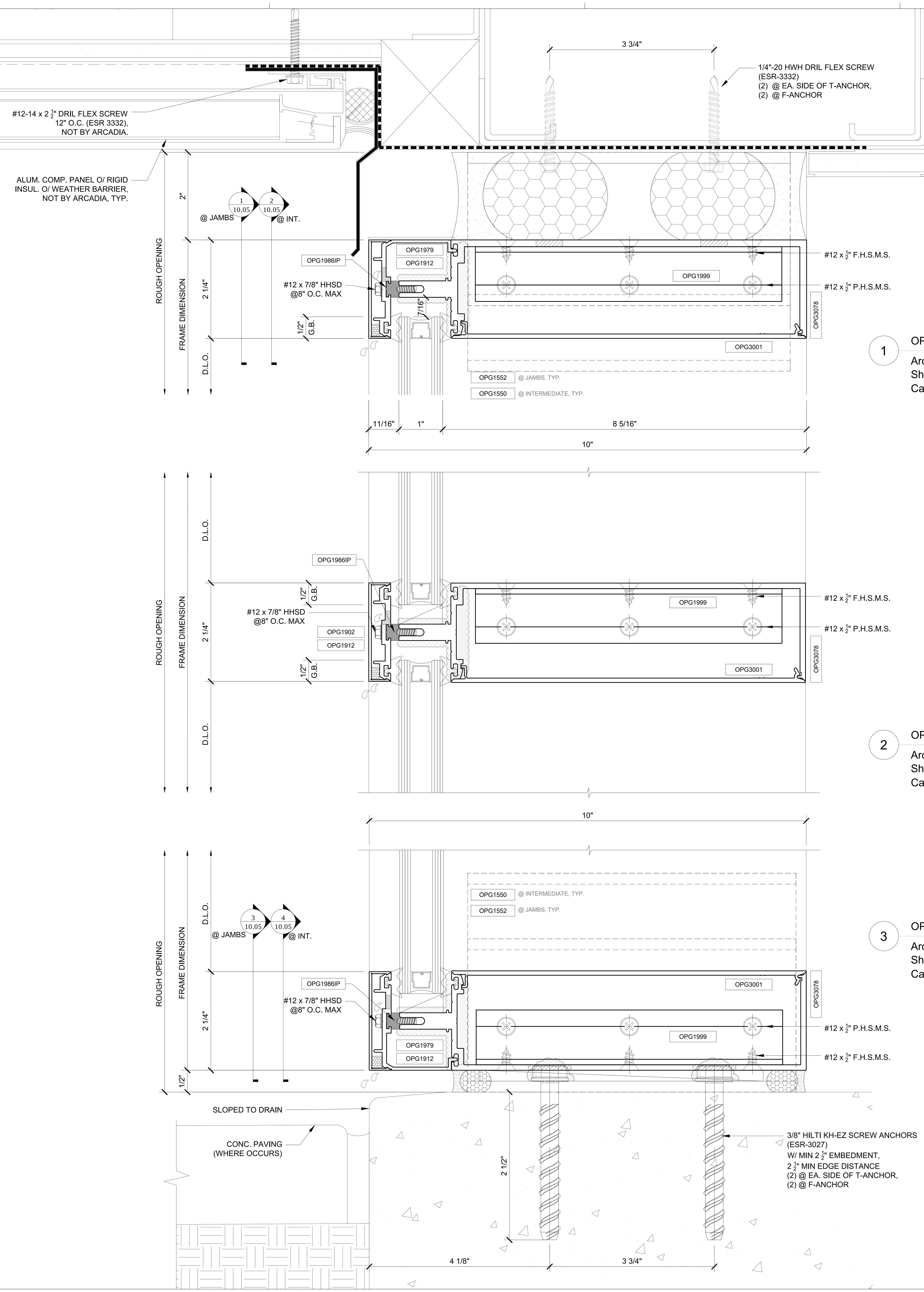
drawing title:
VERT. DETAILS
OPG-6000

drawing no.:
CW 8.06



1 OPG-3000 HEAD @ MTL. COMP. PNL

Arch Ref: -
Shop Ref: CW 101, 109
Calc Ref: Pg. 29

2 OPG-3000 INT. @ MTL. COMP. PNL

Arch Ref: 10B/8.22 SIM.
Shop Ref: CW 101, 109, 106
Calc Ref: -

3 OPG-3000 INT. @ MTL. COMP. PNL

Arch Ref: 8/8.22 SIM.
Shop Ref: CW 101, 109, 106
Calc Ref: Pg. 30

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tBP project number: 20987.00
file name:
drawn by: checked by:
date: 9.2.2019

rev:	date:	description:
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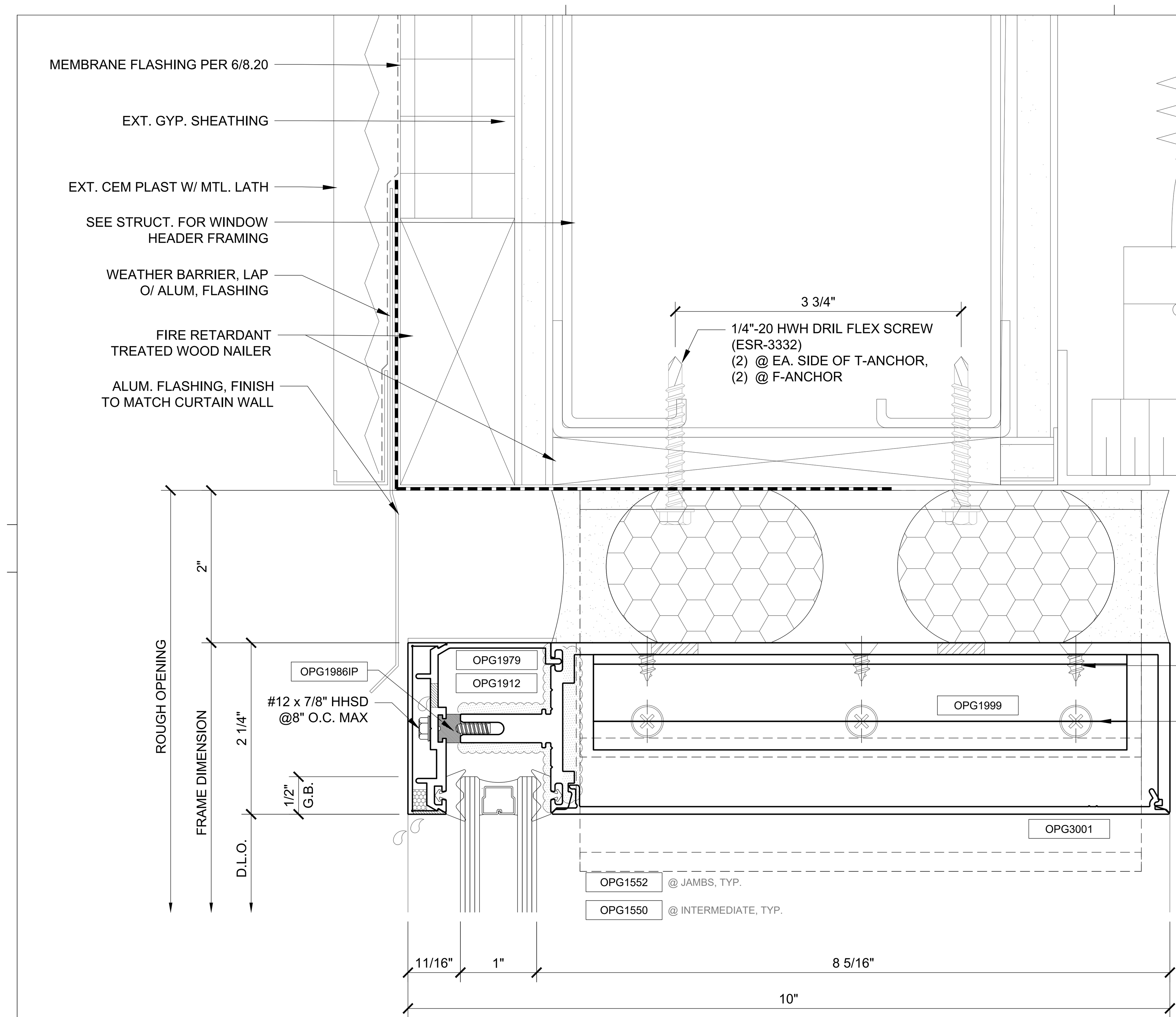
	9.2.19	DSA BACK-CHECK

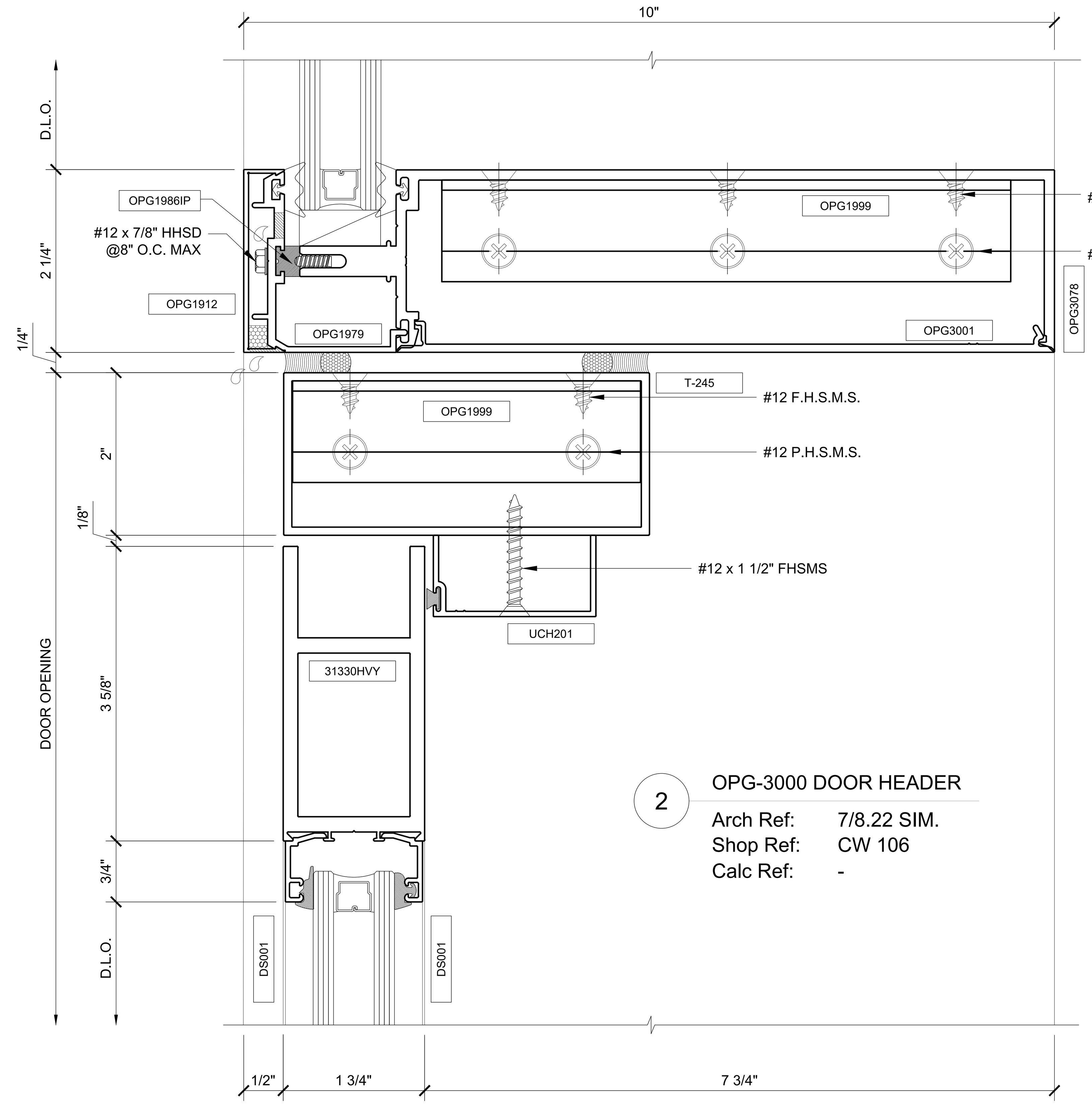
drawing title:
HORIZ. DETAILS
OPG-3000

drawing no.:
CW 9.01



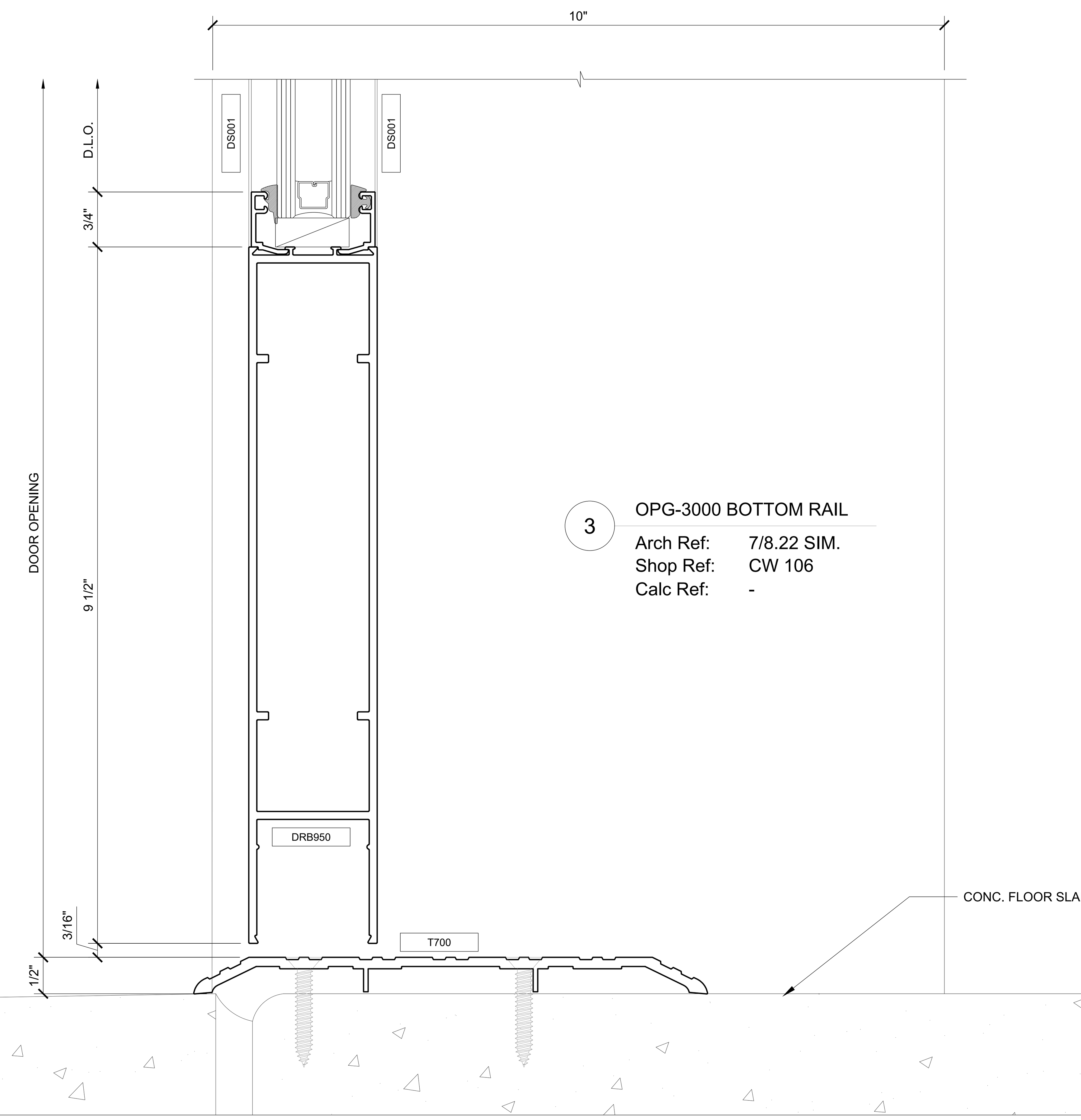
1 OPG-3000 HEAD @ CEM. PLST.

Arch Ref: 5/8.22 SIM.
Shop Ref: CW 106
Calc Ref: Pg. 29



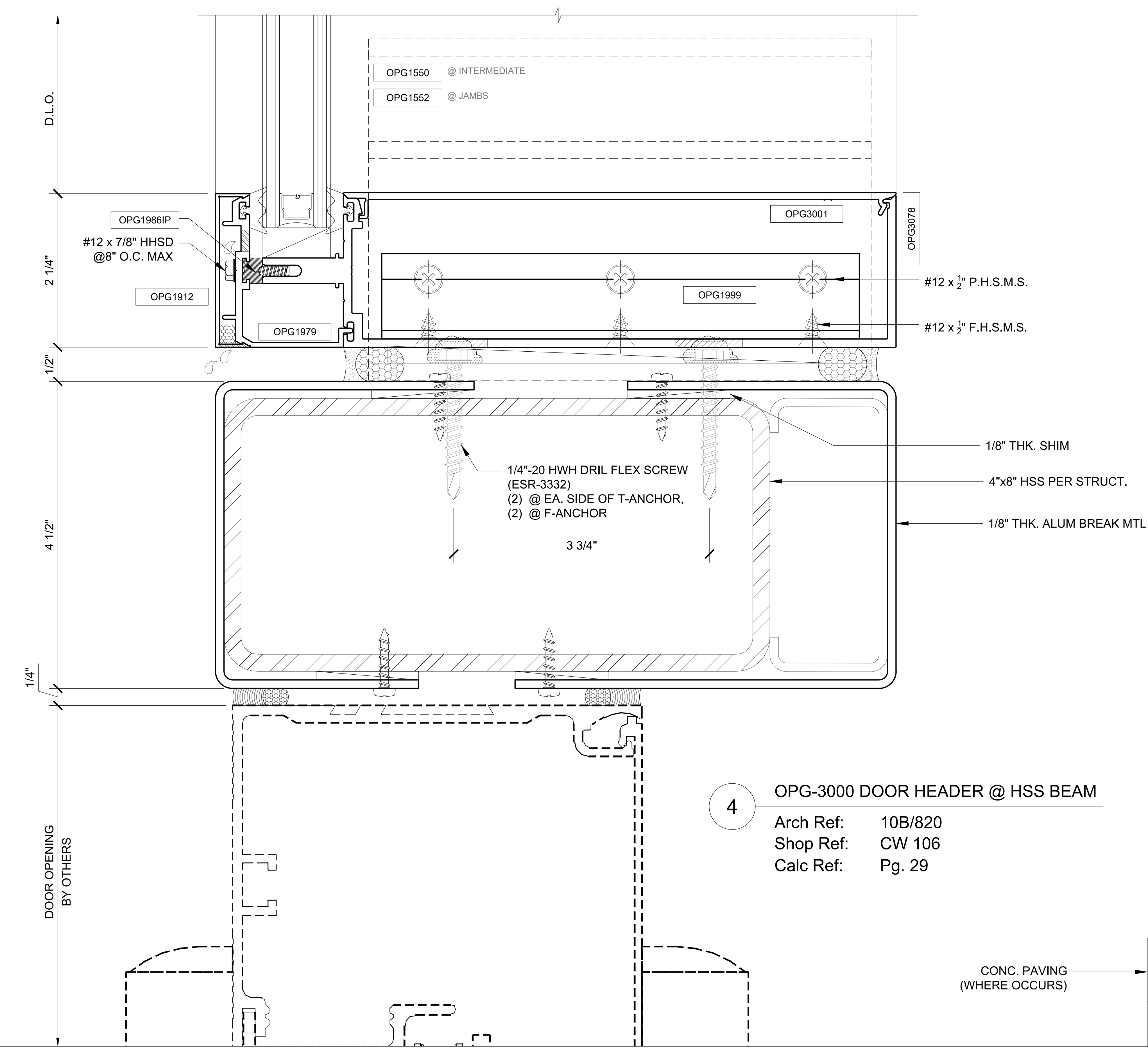
2 OPG-3000 DOOR HEADER

Arch Ref: 7/8.22 SIM.
Shop Ref: CW 106
Calc Ref: -



3 OPG-3000 BOTTOM RAIL

Arch Ref: 7/8.22 SIM.
Shop Ref: CW 106
Calc Ref: -



4 OPG-3000 DOOR HEADER @ HSS BEAM

Arch Ref: 10B/820
Shop Ref: CW 106
Calc Ref: Pg. 29

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COMPTON COMMUNITY COLLEGE DISTRICT
1111 E. ARTESIA BLVD.
COMPTON, CA 90221

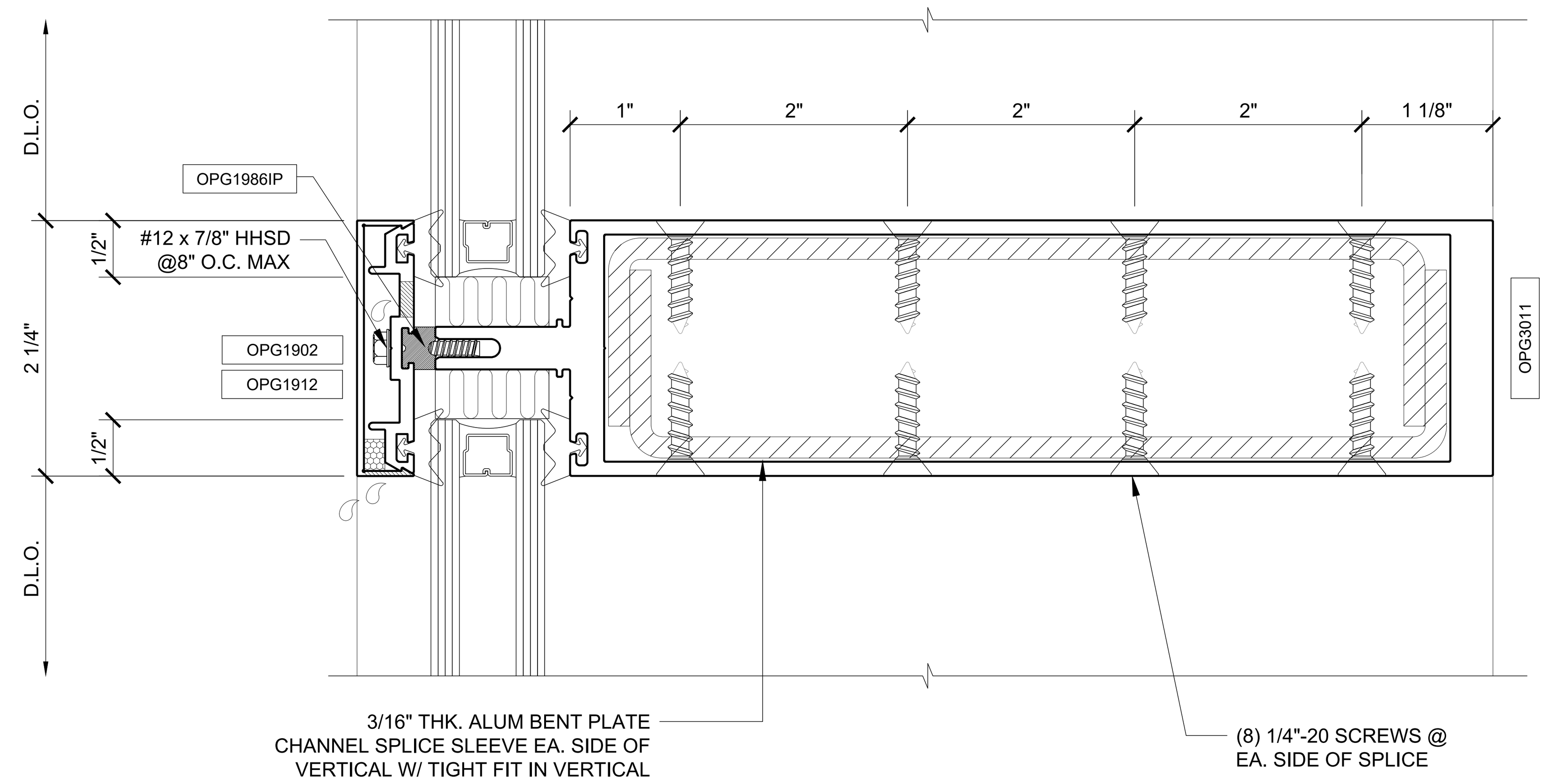
owner

tBP project number: 20987.00
file name:
drawn by: checked by:
date: 9.2.2019

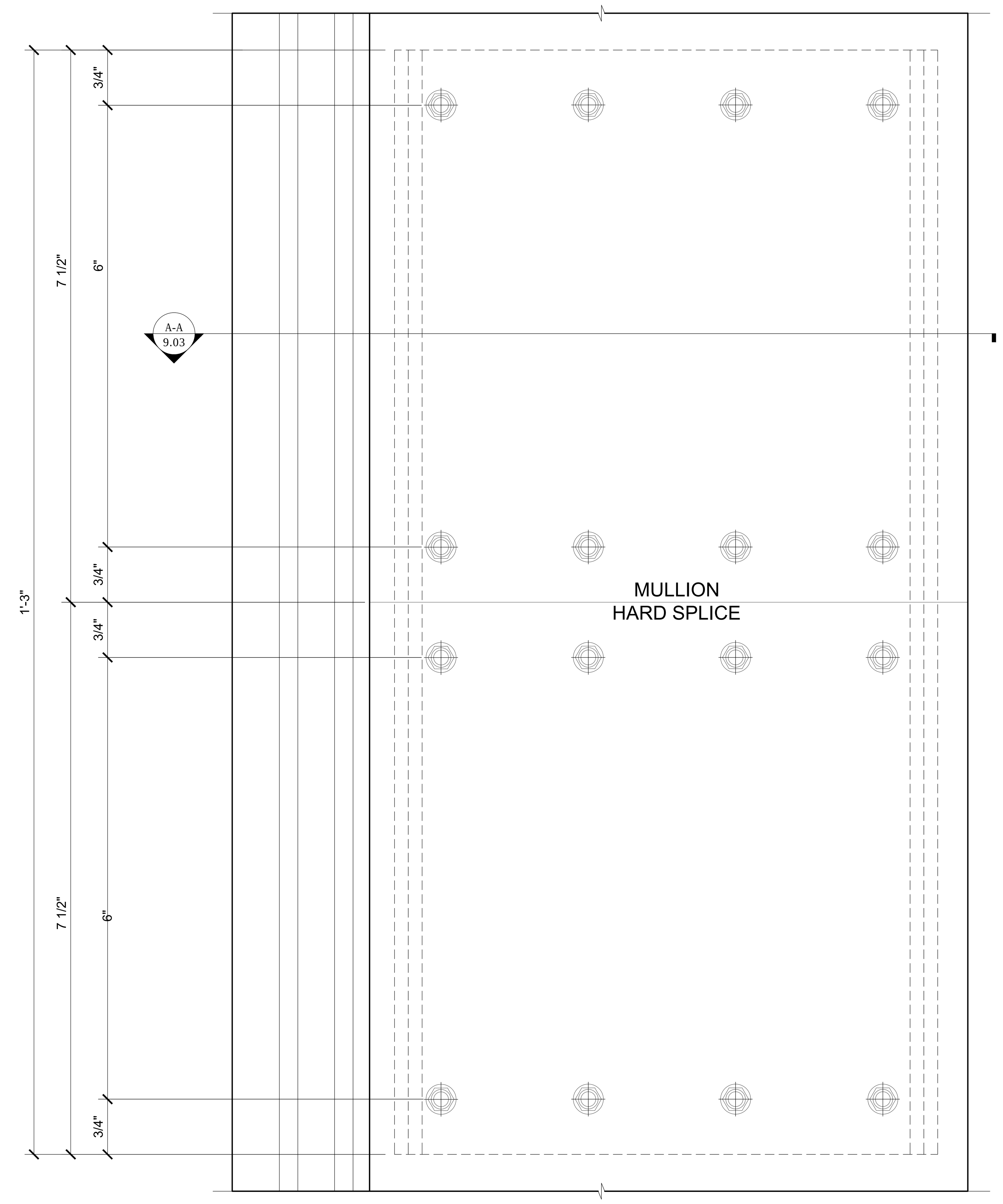
rev:	date:	description:
	2.28.19	DSA SUBMITTAL
	9.2.19	DSA BACK-CHECK

drawing title:
HORIZ. DETAILS
OPG-3000

drawing no.:
CW 9.02



SECTION A-A



1 OPG-3000 MULLION @ HARD SPLICE JOINT

Arch Ref: -
Shop Ref: CW 101, 109, 106
Calc Ref: Pg. 54

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file name:

drawn by: checked by:

date: 9.2.2019

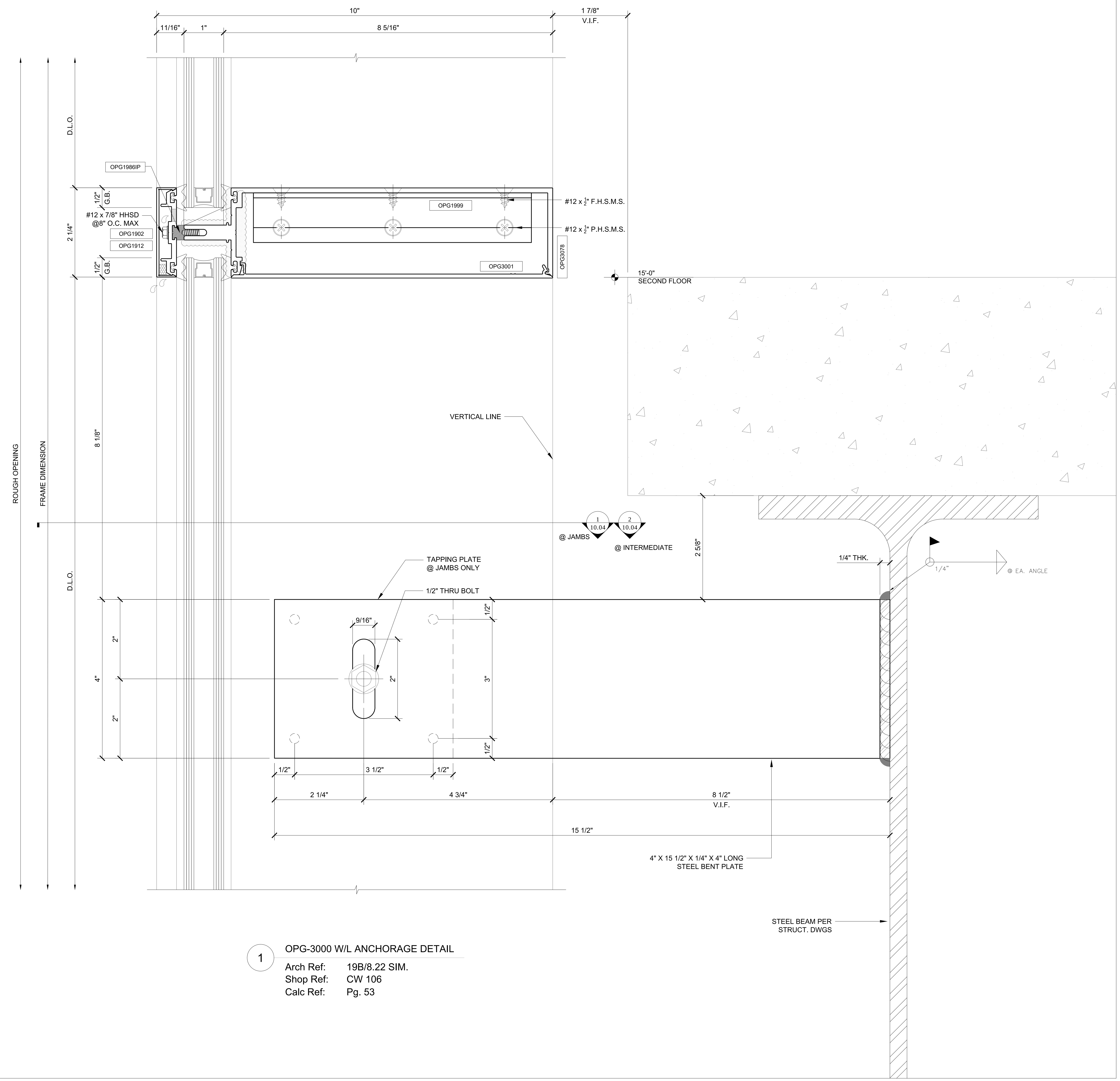
rev:	date:	description:
	2.28.19	DSA SUBMITTAL
	9.2.19	DSA BACK-CHECK

drawing title:

HORIZ. DETAILS
OPG-3000

drawing no.:

CW 9.03



1 OPG-3000 W/L ANCHORAGE DETAIL

Arch Ref: 19B/8.22 SIM.
Shop Ref: CW 106
Calc Ref: Pg. 53

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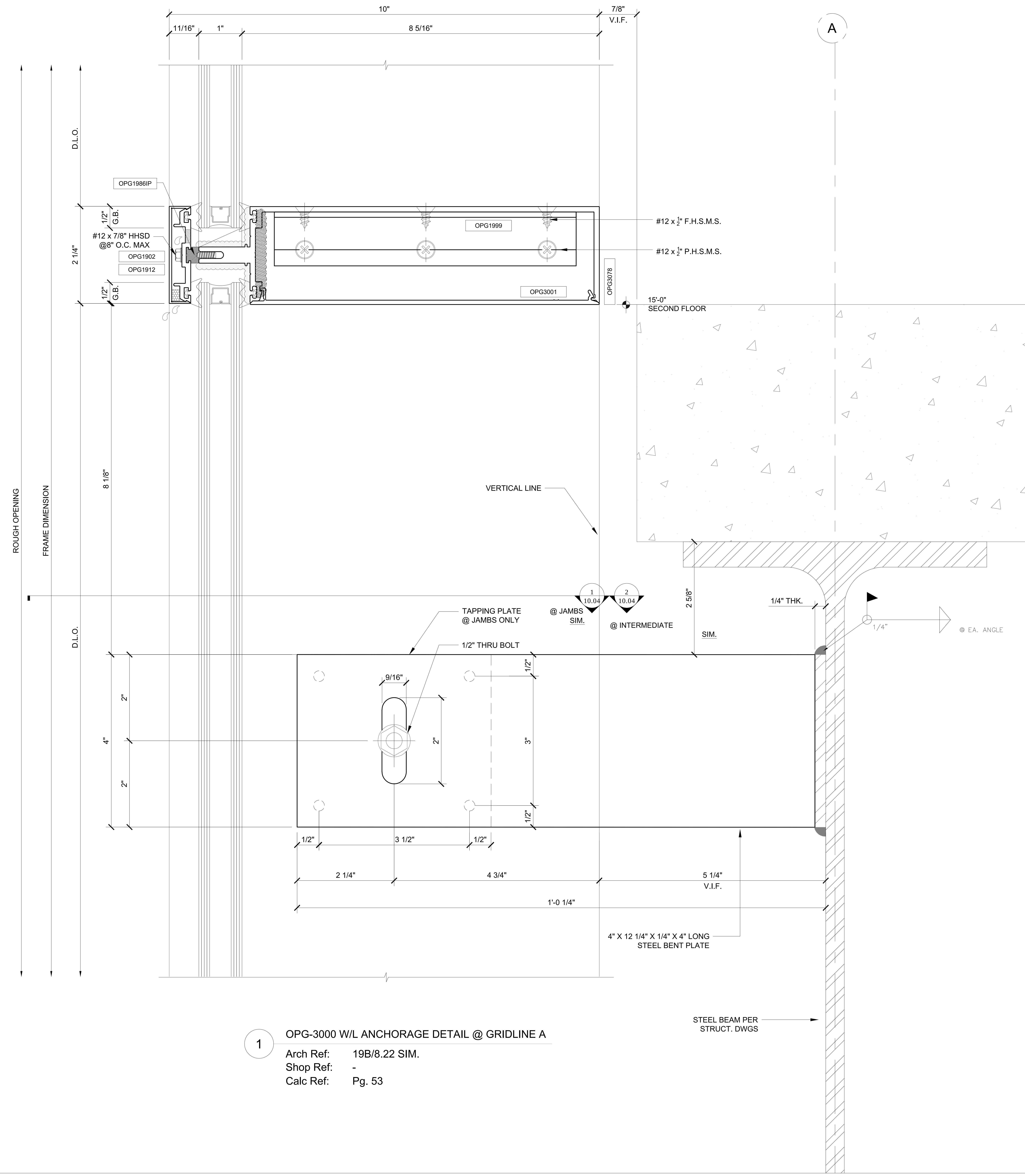
tBP project number: 20987.00
file name:
drawn by: checked by:
date: 9.2.2019

rev:	date:	description:
	2.28.19	DSA SUBMITTAL
	9.2.19	DSA BACK-CHECK

drawing title:
HORIZ. DETAILS
OPG-3000

drawing no.:
CW 9.04



1 OPG-3000 W/L ANCHORAGE DETAIL @ GRIDLINE A

Arch Ref: 19B/8.22 SIM.
Shop Ref: -
Calc Ref: Pg. 53

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file name:
drawn by: checked by:
date: 9.2.2019

rev:	date:	description:
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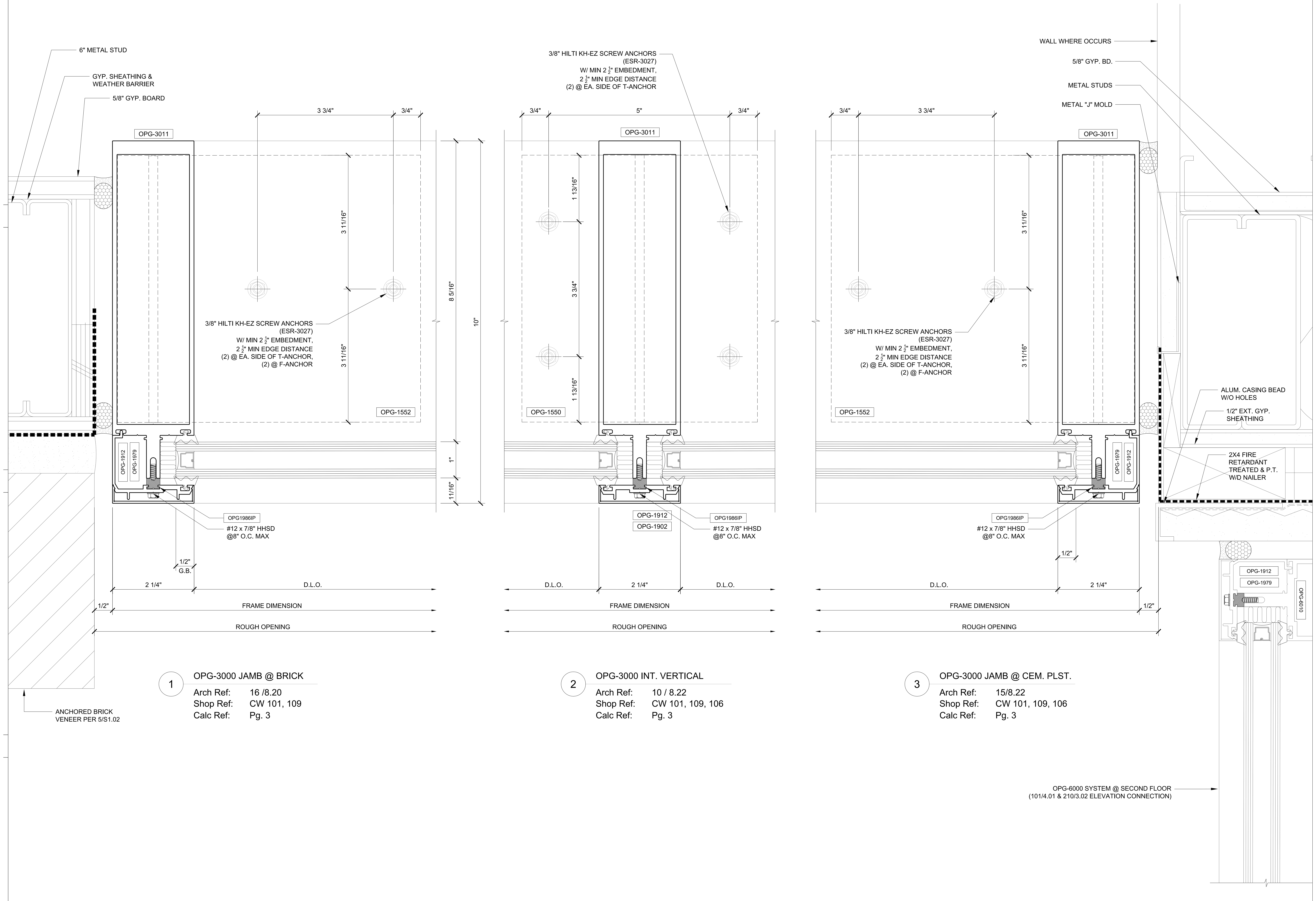
	9.2.19	DSA BACK-CHECK

drawing title:

HORIZ. DETAILS OPG-3000

drawing no.:

CW 9.05



1 OPG-3000 JAMB @ BRICK
Arch Ref: 16 /8.20
Shop Ref: CW 101, 109
Calc Ref: Pg. 3

2 OPG-3000 INT. VERTICAL
Arch Ref: 10 / 8.22
Shop Ref: CW 101, 109, 106
Calc Ref: Pg. 3

3 OPG-3000 JAMB @ CEM. PLST.
Arch Ref: 15/8.22
Shop Ref: CW 101, 109, 106
Calc Ref: Pg. 3

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file name:
drawn by: checked by:
date: 9.2.2019

rev:	date:	description:
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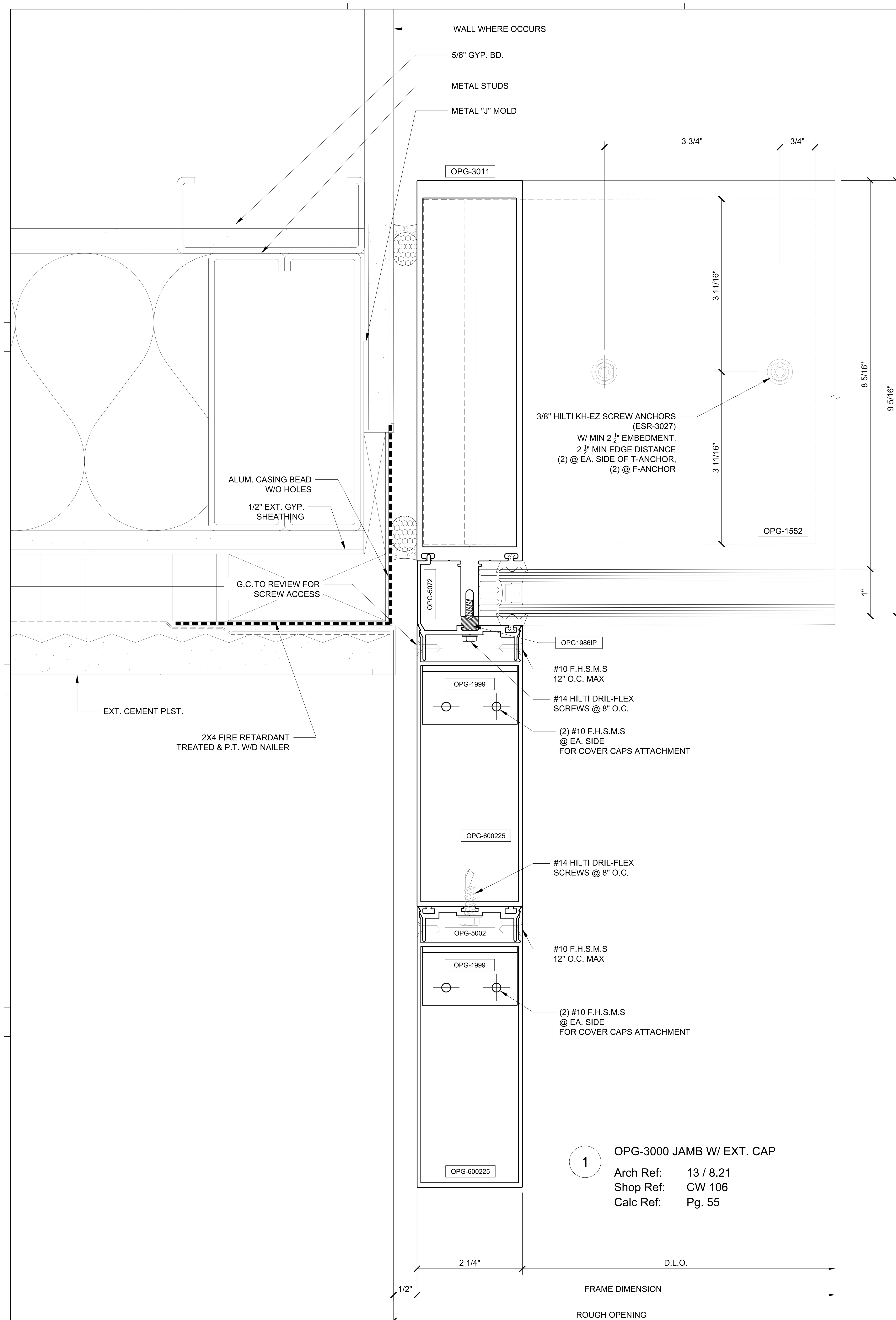
	9.2.19	DSA BACK-CHECK

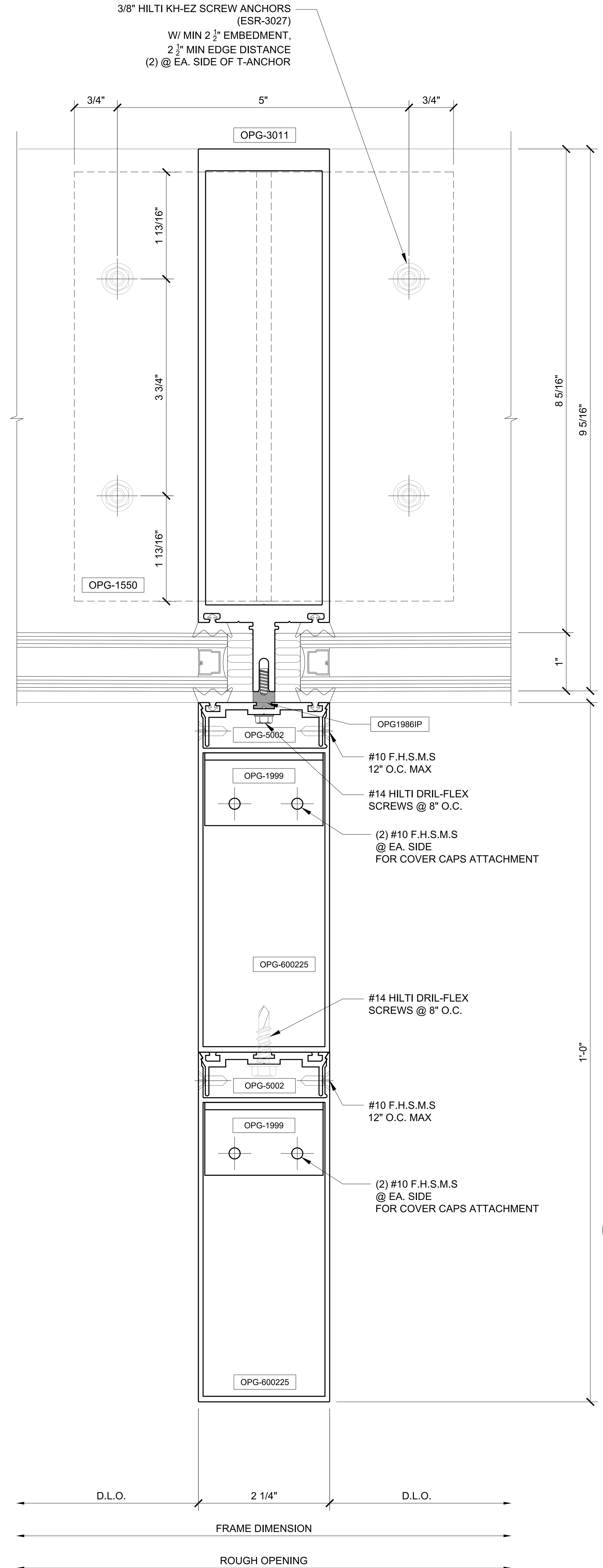
drawing title:
VERT. DETAILS
OPG-3000

drawing no.:
CW 10.01



1 OPG-3000 JAMB W/ EXT. CAP

Arch Ref: 13 / 8.21
Shop Ref: CW 106
Calc Ref: Pg. 55



2 OPG-3000 INT. W/ EXT. CAP

Arch Ref: 13 /8.21 SIM.
Shop Ref: CW 106
Calc Ref: Pg. 55

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owner

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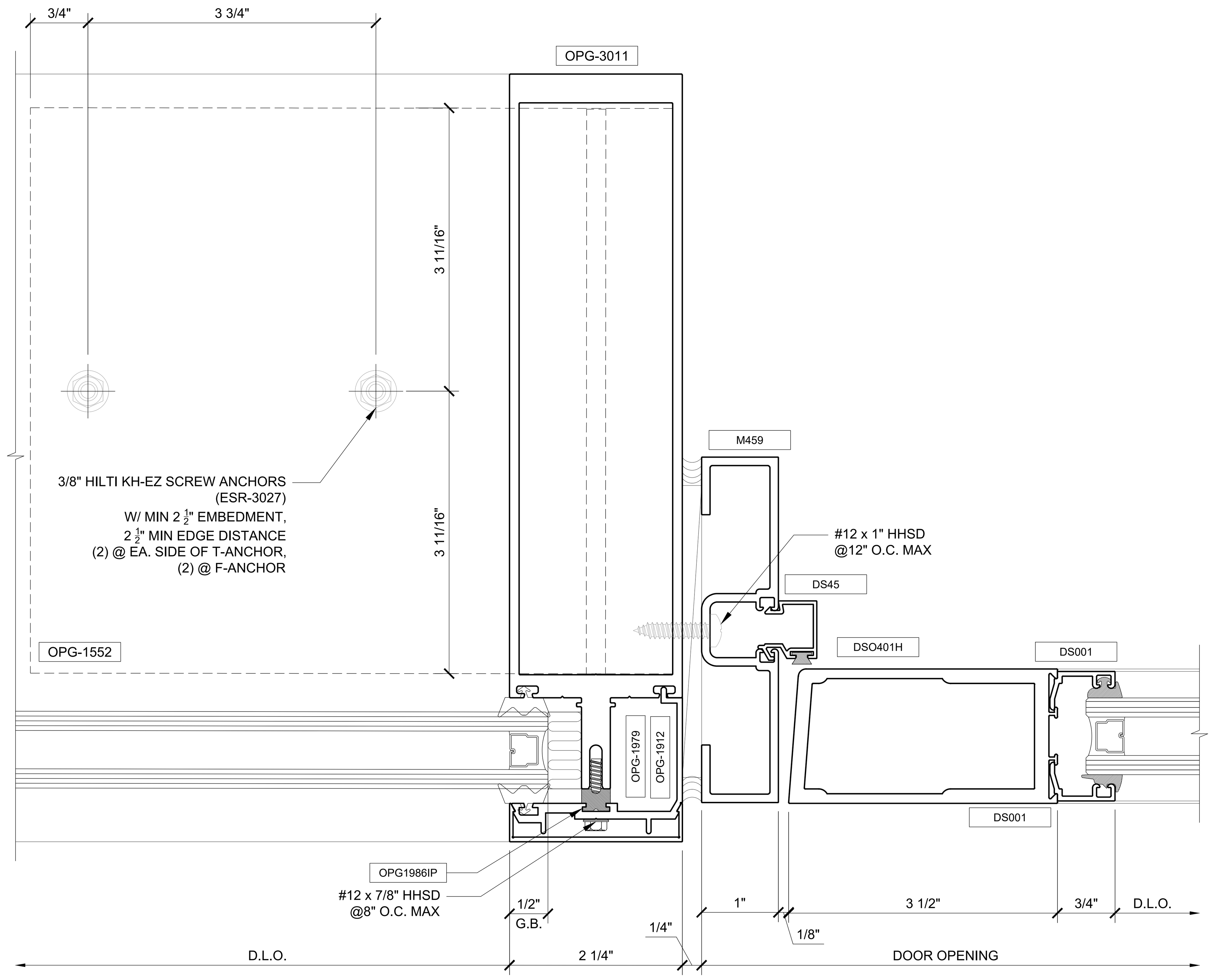
file name:
drawn by: checked by:
date: 9.2.2019

rev:	date:	description:
	2.28.19	DSA SUBMITTAL
	9.2.19	DSA BACK-CHECK

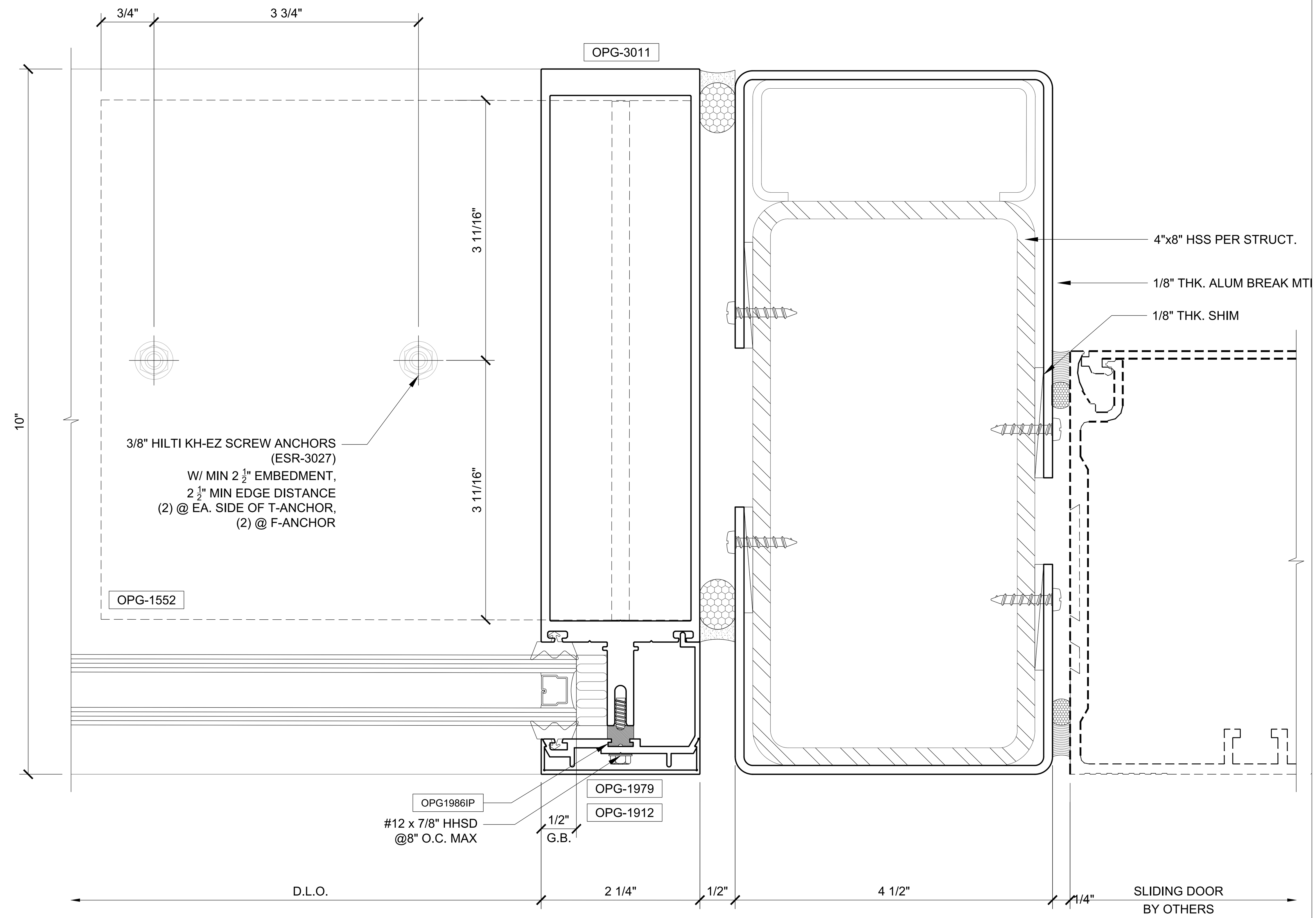
drawing title:
VERT. DETAILS
OPG-3000

drawing no.:
CW 10.02



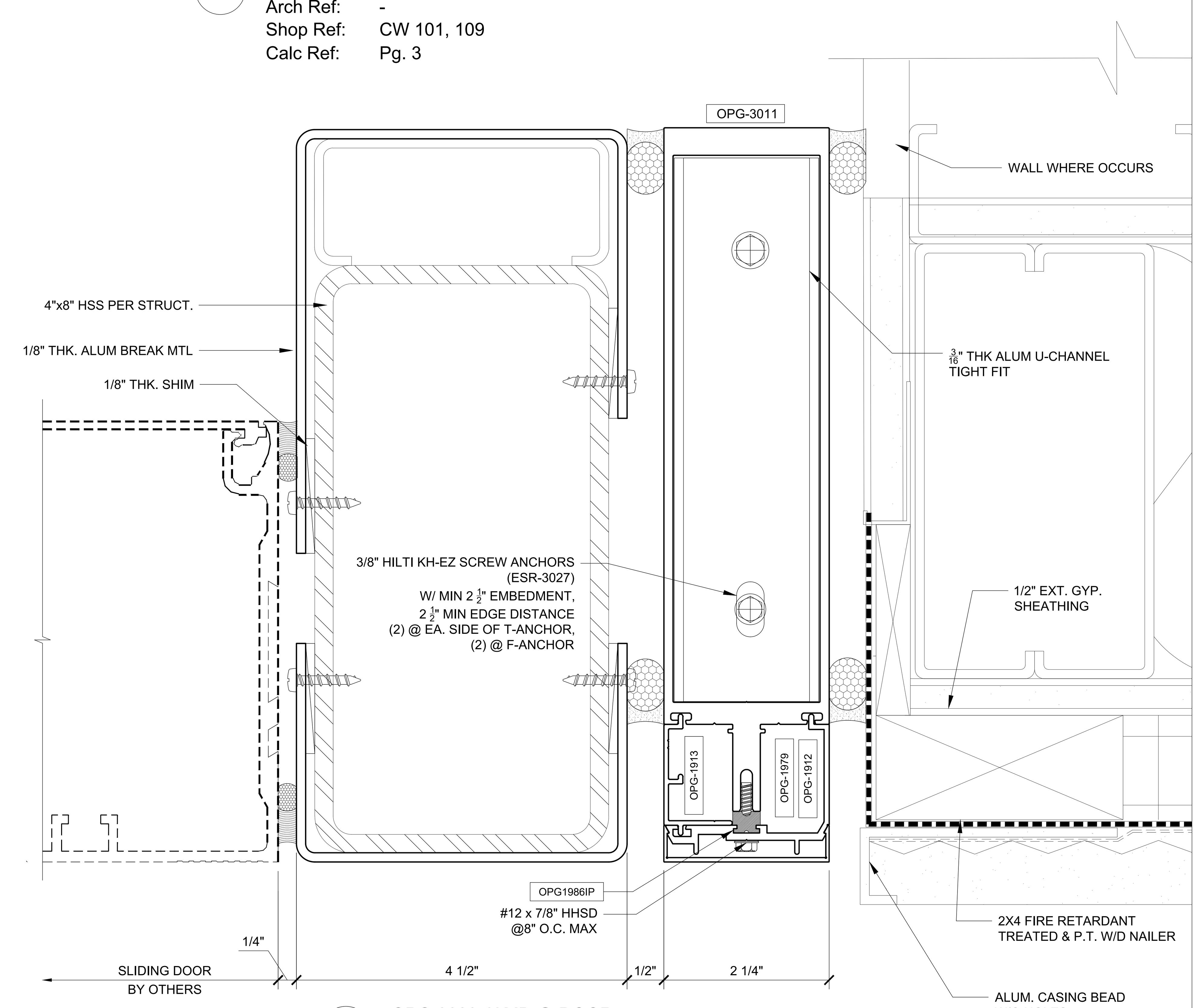
1 OPG-3000 @ DOOR JAMB

Arch Ref: 12/8.22
Shop Ref: CW 106
Calc Ref: Pg. 3



2 OPG-3000 @ SLIDING DOOR JAMB

Arch Ref: -
Shop Ref: CW 101, 109
Calc Ref: Pg. 3



3 OPG-3000 JAMB @ DOOR

Arch Ref: -
Shop Ref: CW 109
Calc Ref: -

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rev:	date:	description:
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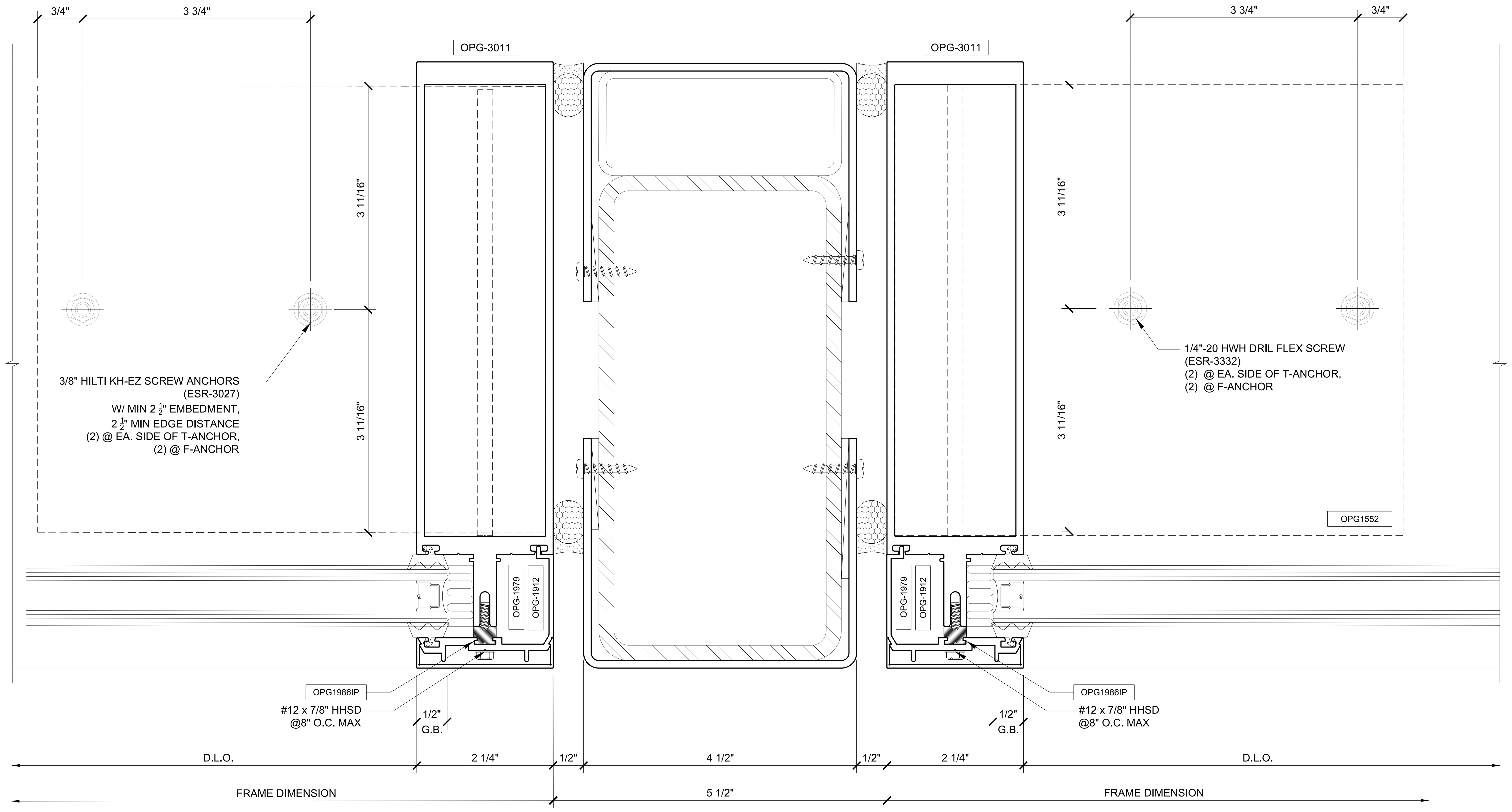
	9.2.19	DSA BACK-CHECK

drawing title:

VERT. DETAILS
OPG-3000

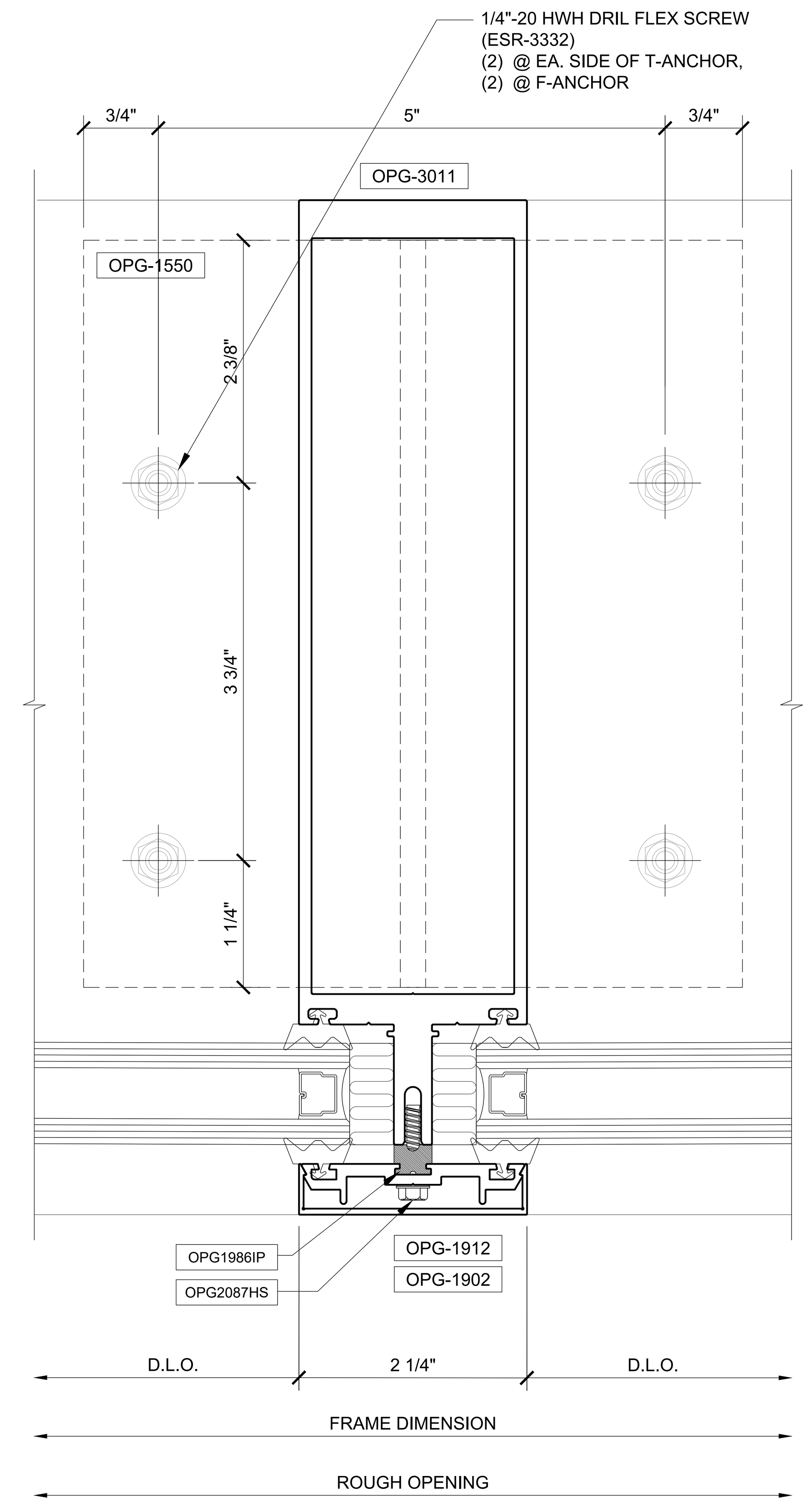
drawing no.:

CW 10.03



1 OPG-3000 VERTICALS @ HSS BEAM

Arch Ref: -
Shop Ref: CW 109
Calc Ref: -



2 OPG-3000 INT. VERTICAL

Arch Ref: 10 / 8.22
Shop Ref: CW 109
Calc Ref:

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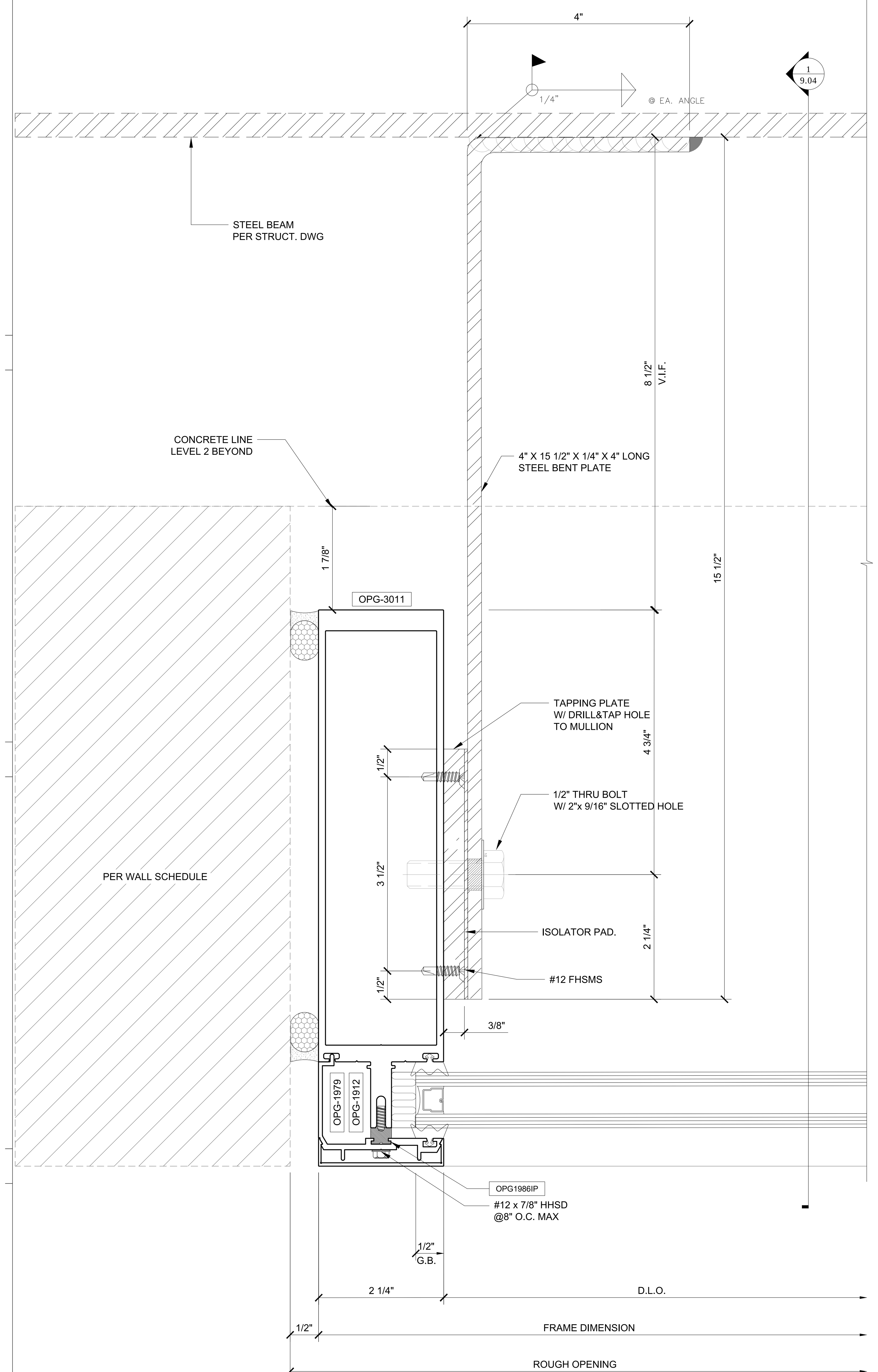
tBP project number: 20987.00
file name:
drawn by: checked by:
date: 9.2.2019
rev: date: description:

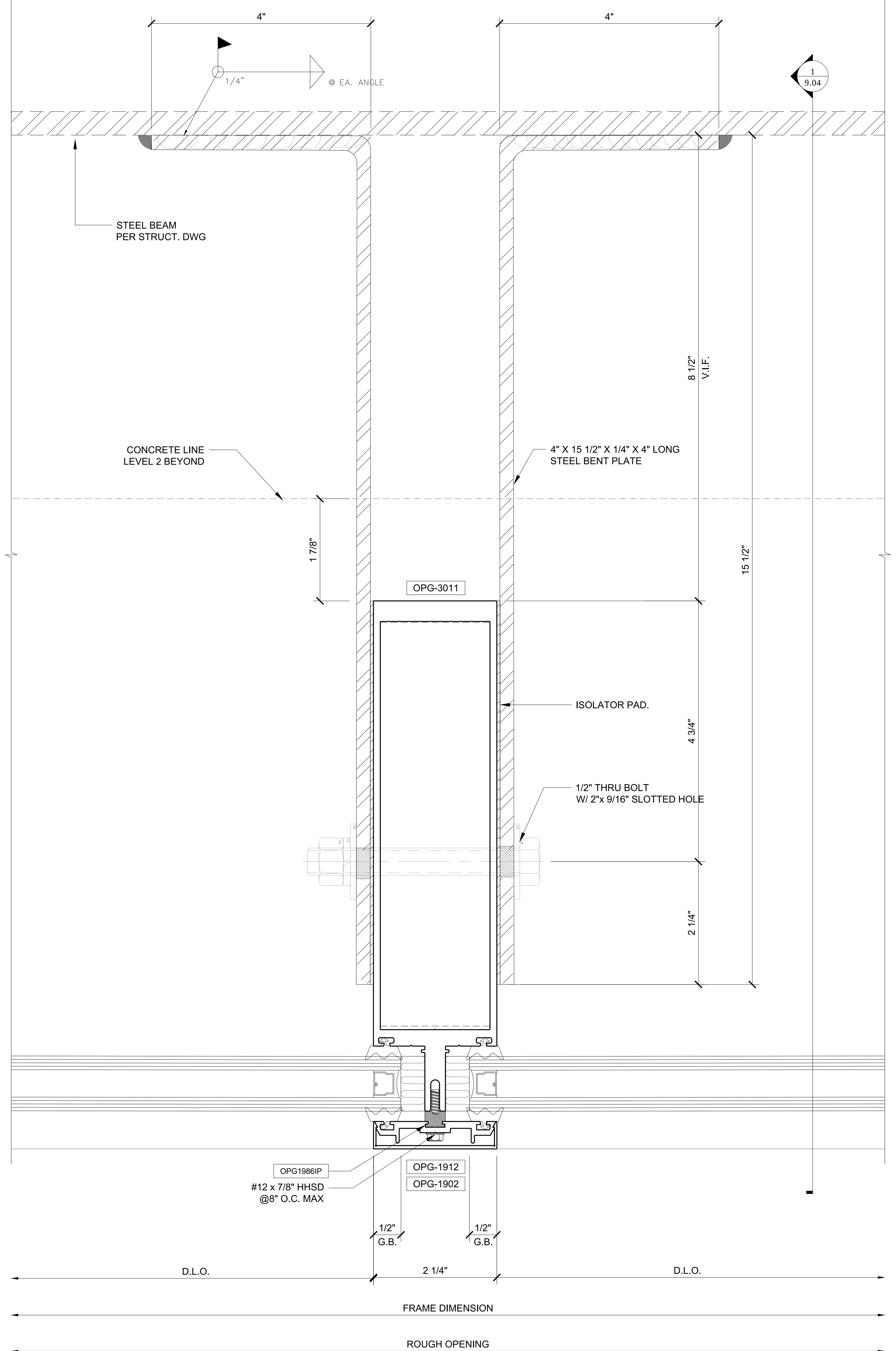
drawing title:
VERT. DETAILS
OPG-3000

drawing no.:
CW 10.03A



1 OPG-3000 JAMB @ W/L ANCHOR

Arch Ref: 19A/8.22 SIM.
Shop Ref: CW 101, 109, 106
Calc Ref: Pg. 53



2 OPG-3000 INT. @ W/L ANCHOR

Arch Ref: 19A/8.22 SIM.
Shop Ref: CW 101, 109, 106
Calc Ref: Pg. 53

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tBP project number: 20987.00
file name:
drawn by: checked by:
date: 9.2.2019
rev: date: description:

drawing title:
VERT. DETAILS
OPG-3000

drawing no.:
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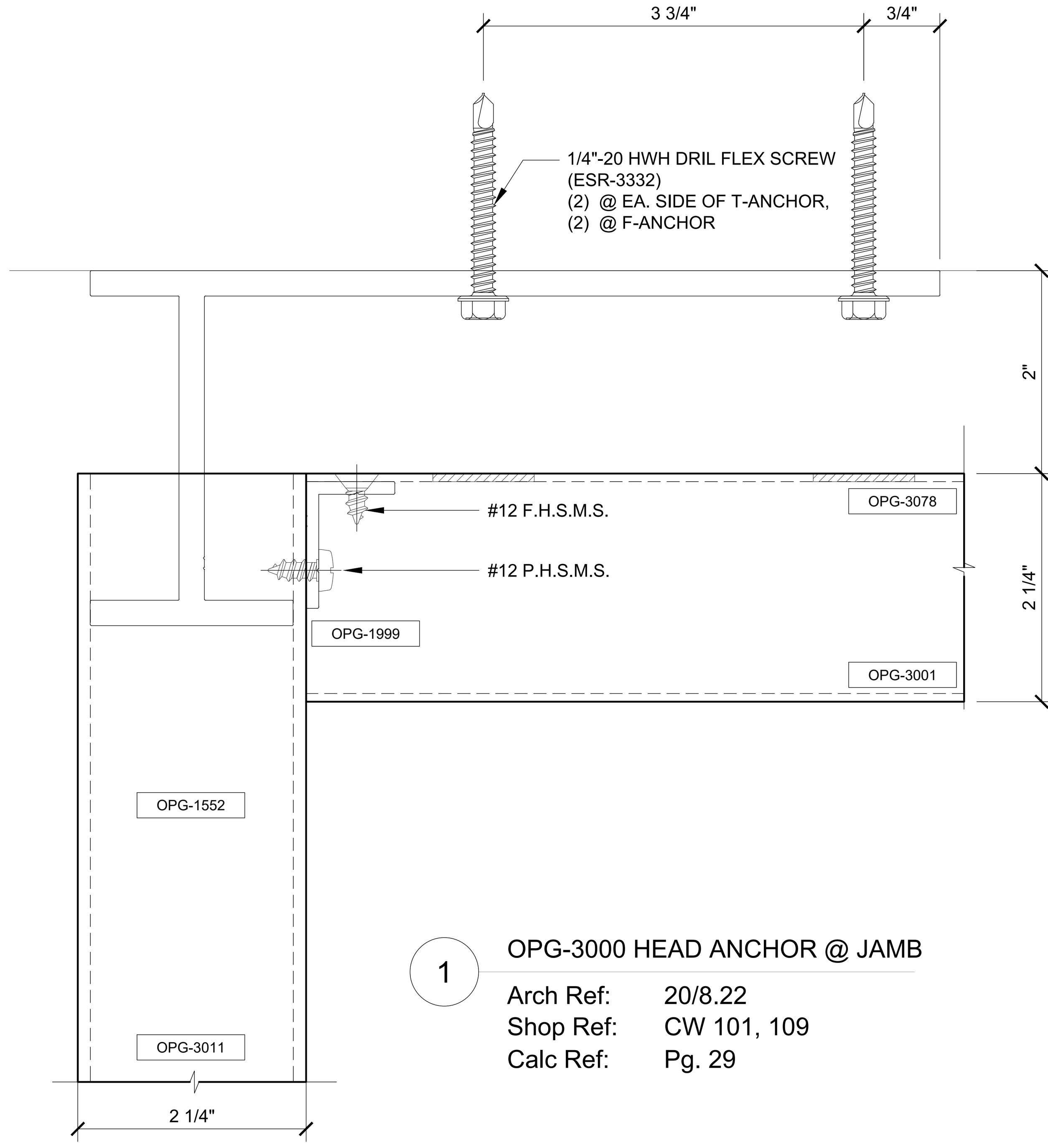
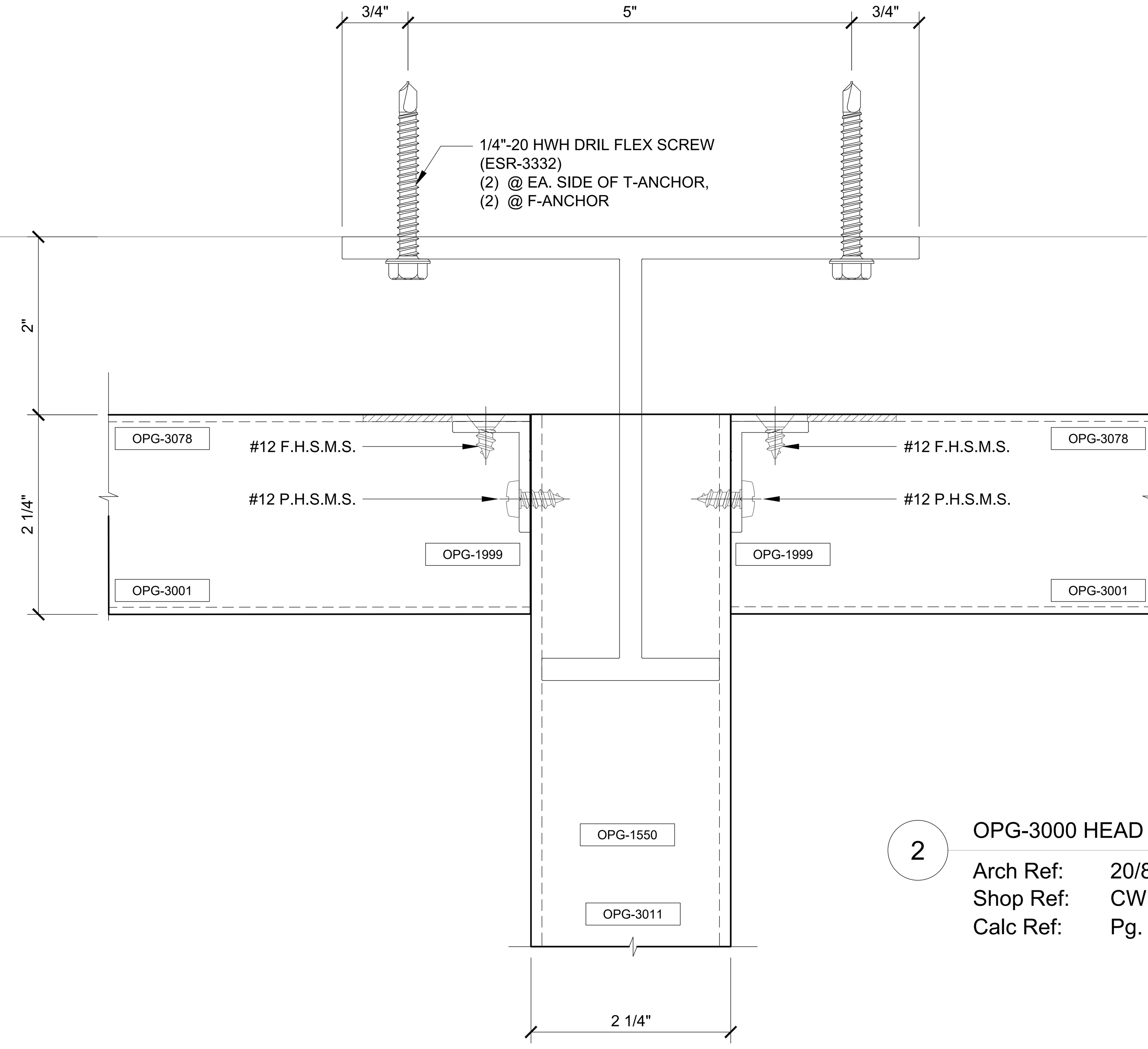


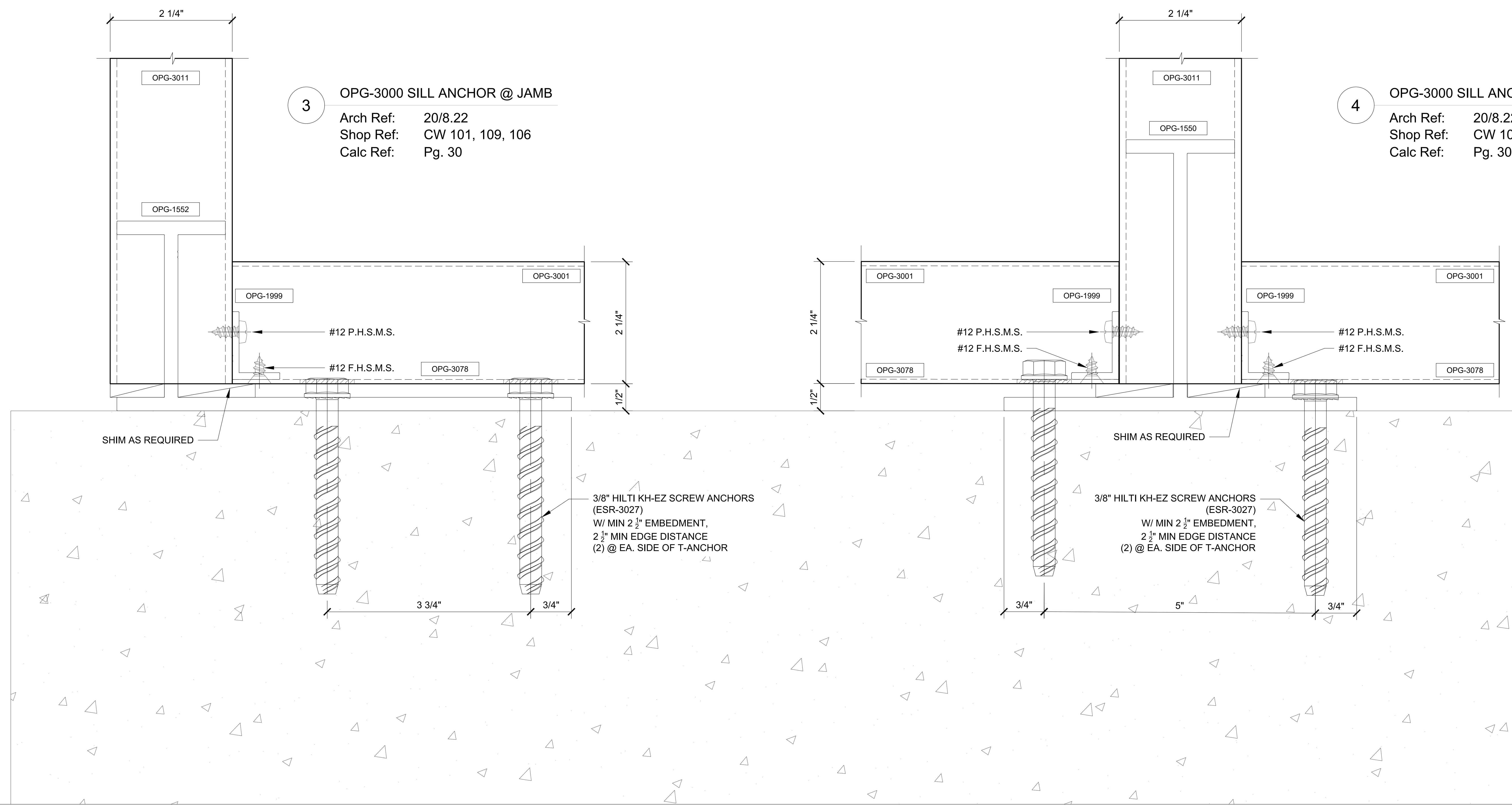
1 OPG-3000 HEAD ANCHOR @ JAMB
Arch Ref: 20/8.22
Shop Ref: CW 101, 109
Calc Ref: Pg. 29



2 OPG-3000 HEAD ANCHOR @ INT.
Arch Ref: 20/8.22
Shop Ref: CW 101, 109
Calc Ref: Pg. 29

3 OPG-3000 SILL ANCHOR @ JAMB
Arch Ref: 20/8.22
Shop Ref: CW 101, 109, 106
Calc Ref: Pg. 30

4 OPG-3000 SILL ANCHOR @ INT.
Arch Ref: 20/8.22
Shop Ref: CW 101, 109, 106
Calc Ref: Pg. 30



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drawing title:
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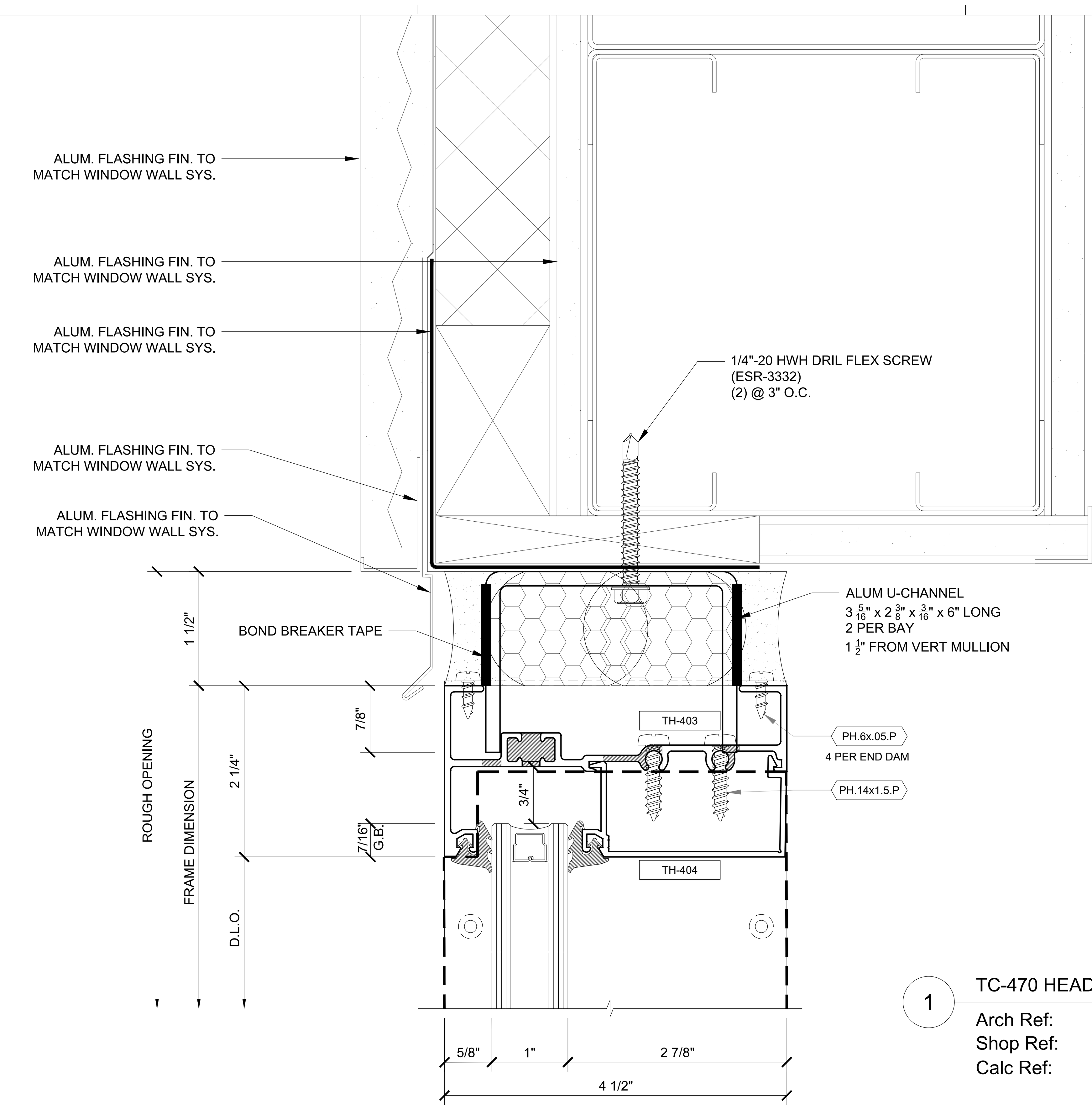
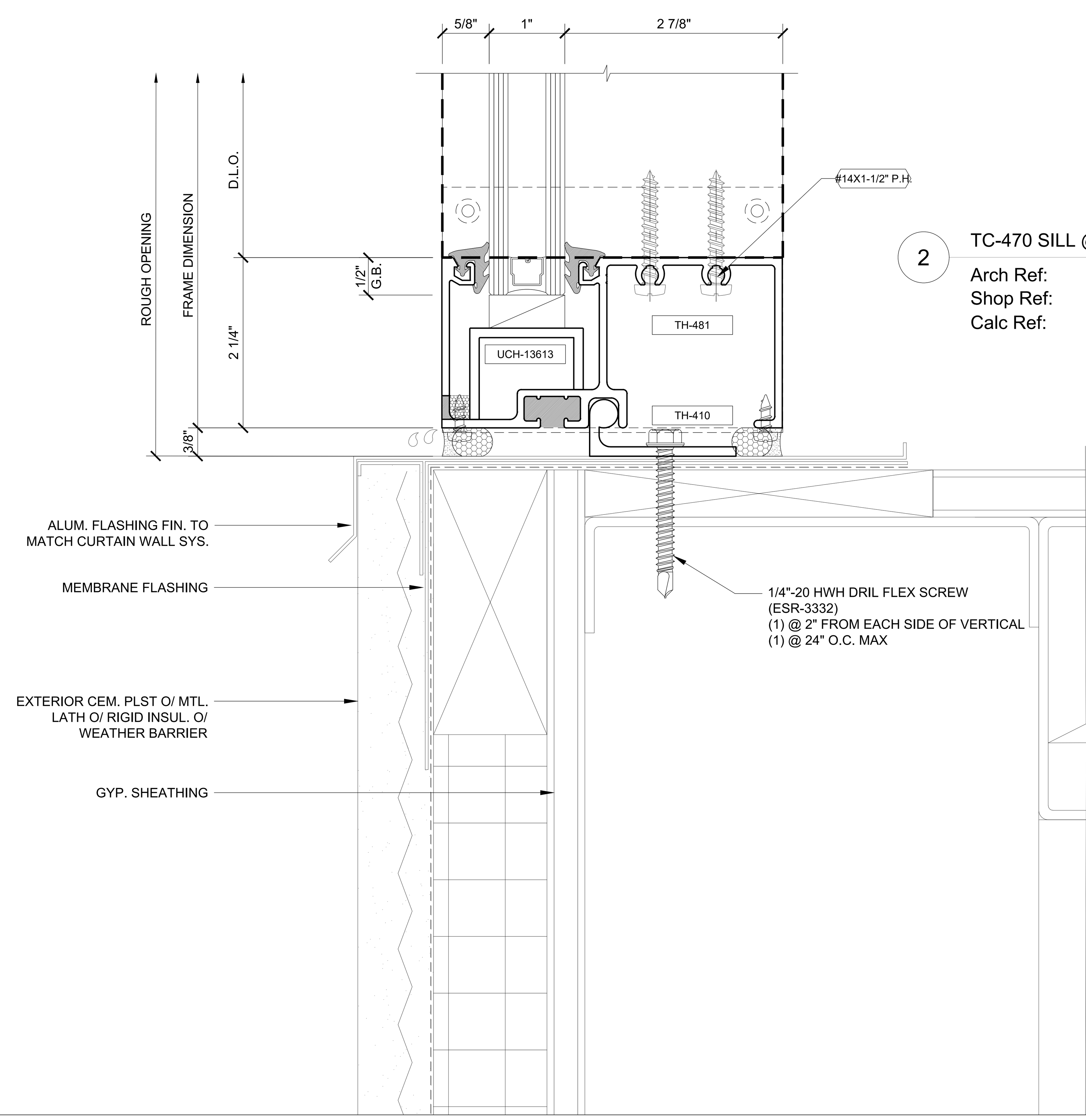
OPG-3000

drawing no.:
CW 10.05



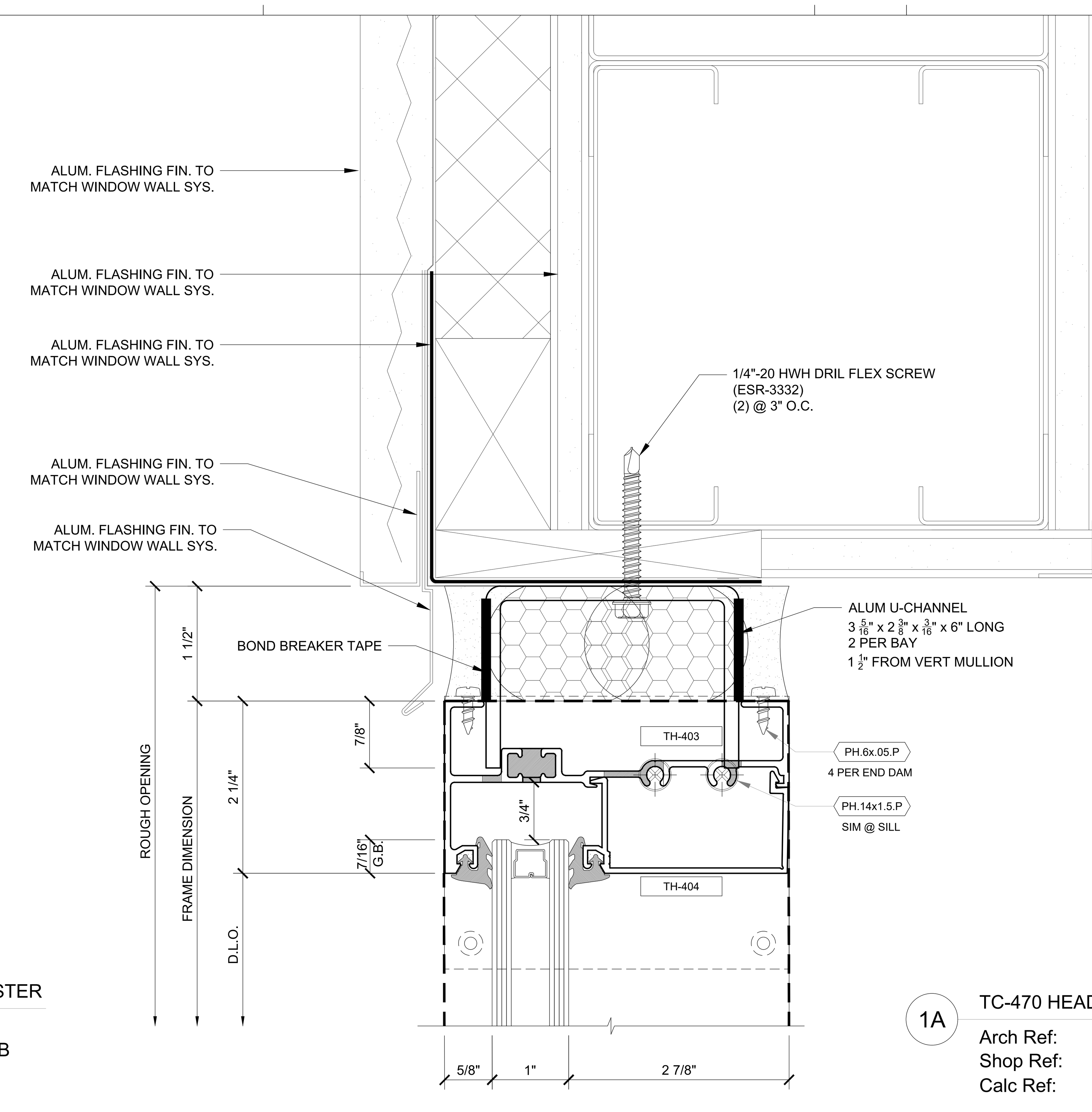
1 TC-470 HEAD @ CEMENT PLASTER

Arch Ref:	2/8.20
Shop Ref:	SF 208, 108B, 205B
Calc Ref:	Pg. 43



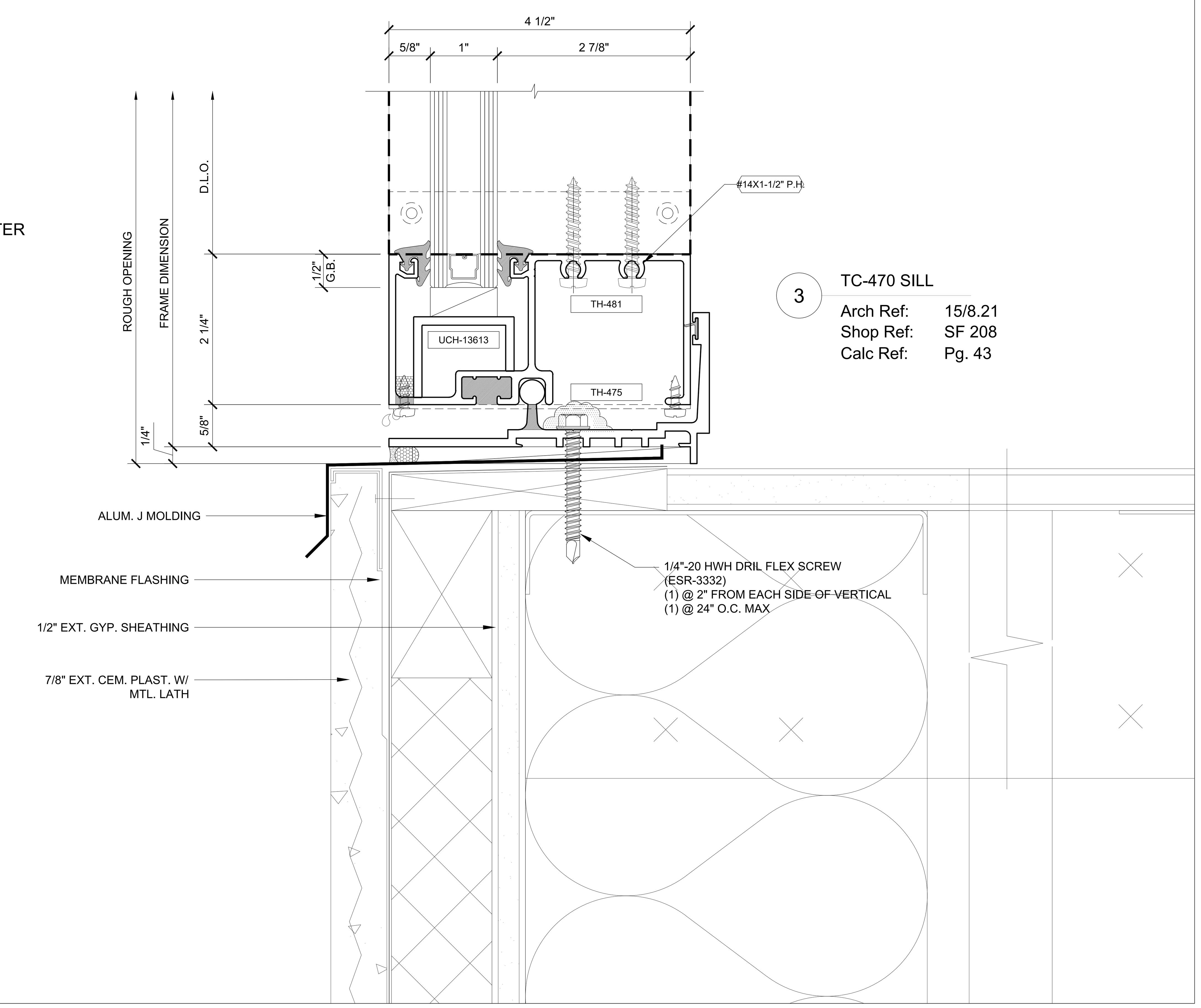
2 TC-470 SILL @ CEMENT PLASTER

Arch Ref:	17/8.22 SIM.
Shop Ref:	SF 108A, 205B
Calc Ref:	Pg. 43



1A TC-470 HEAD @ SPLIT MULLION

Arch Ref:	2/8.20
Shop Ref:	SF 208, 108B, 205B
Calc Ref:	Pg. 43



3 TC-470 SILL

Arch Ref:	15/8.21
Shop Ref:	SF 208
Calc Ref:	Pg. 43

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tBP project number: 20987.00

file name:

drawn by: checked by:

date: 9.2.2019

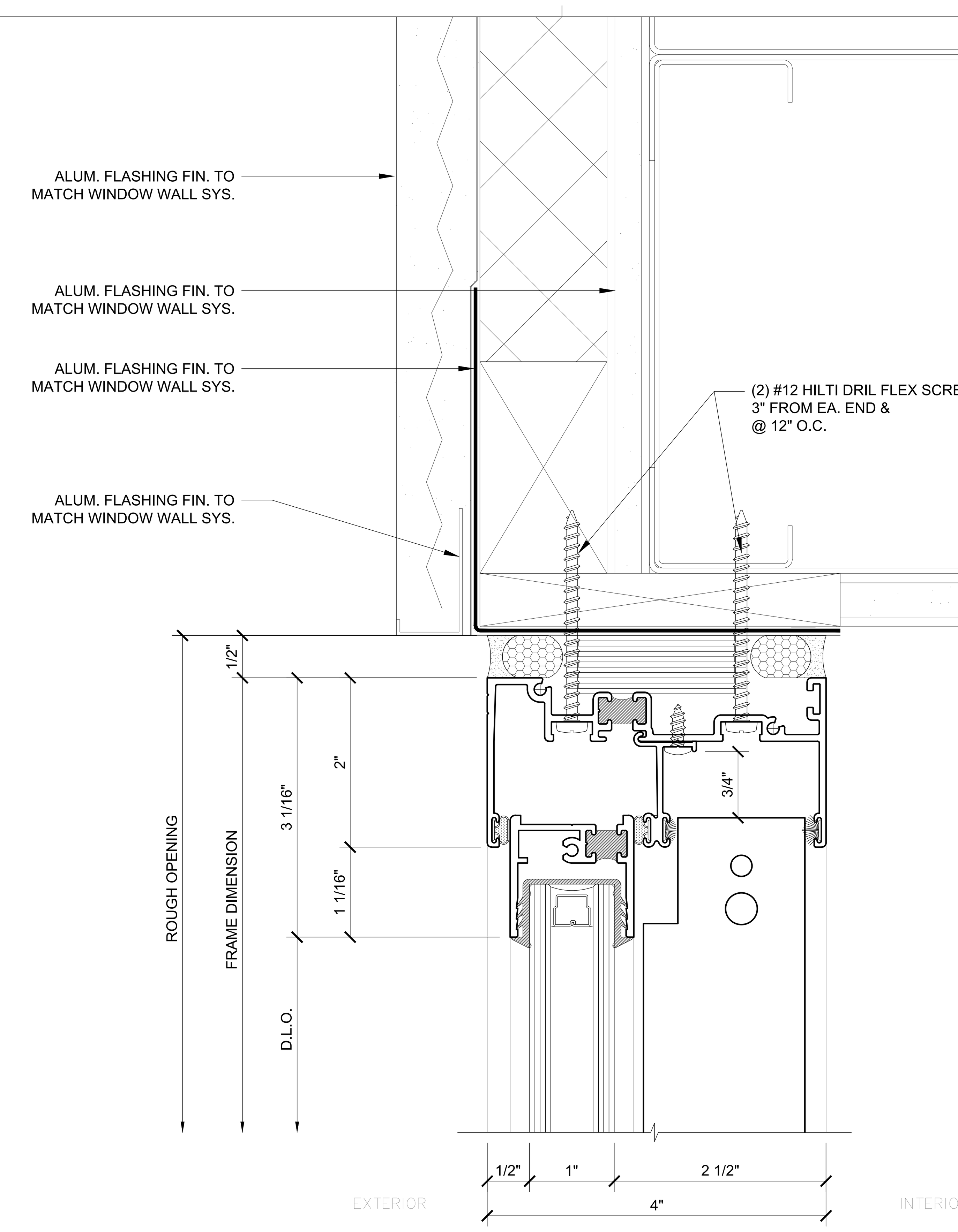
rev:	date:	description:

drawing title:

HORIZ. DETAILS
TC-470

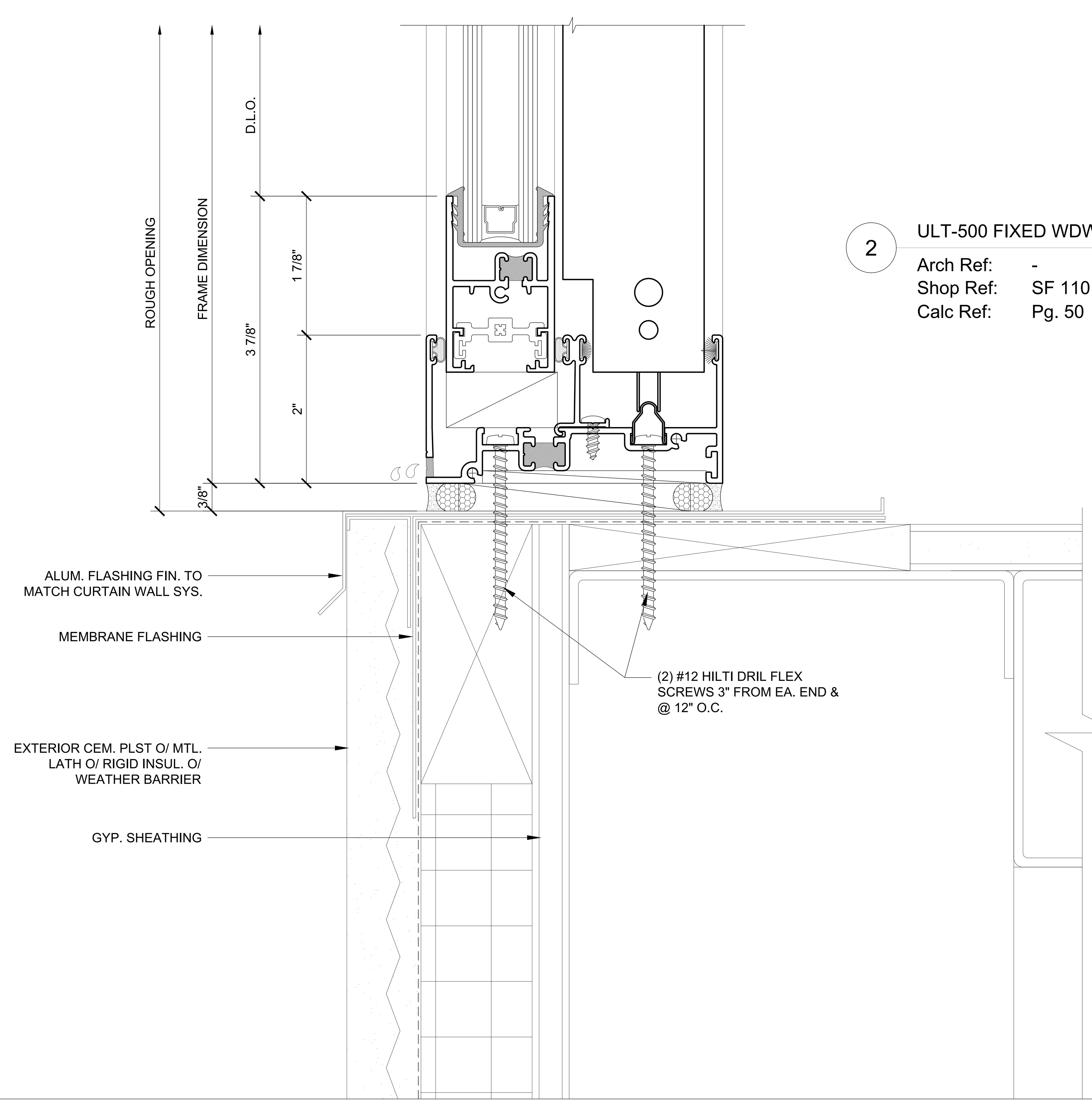
drawing no.:

CW 11.01



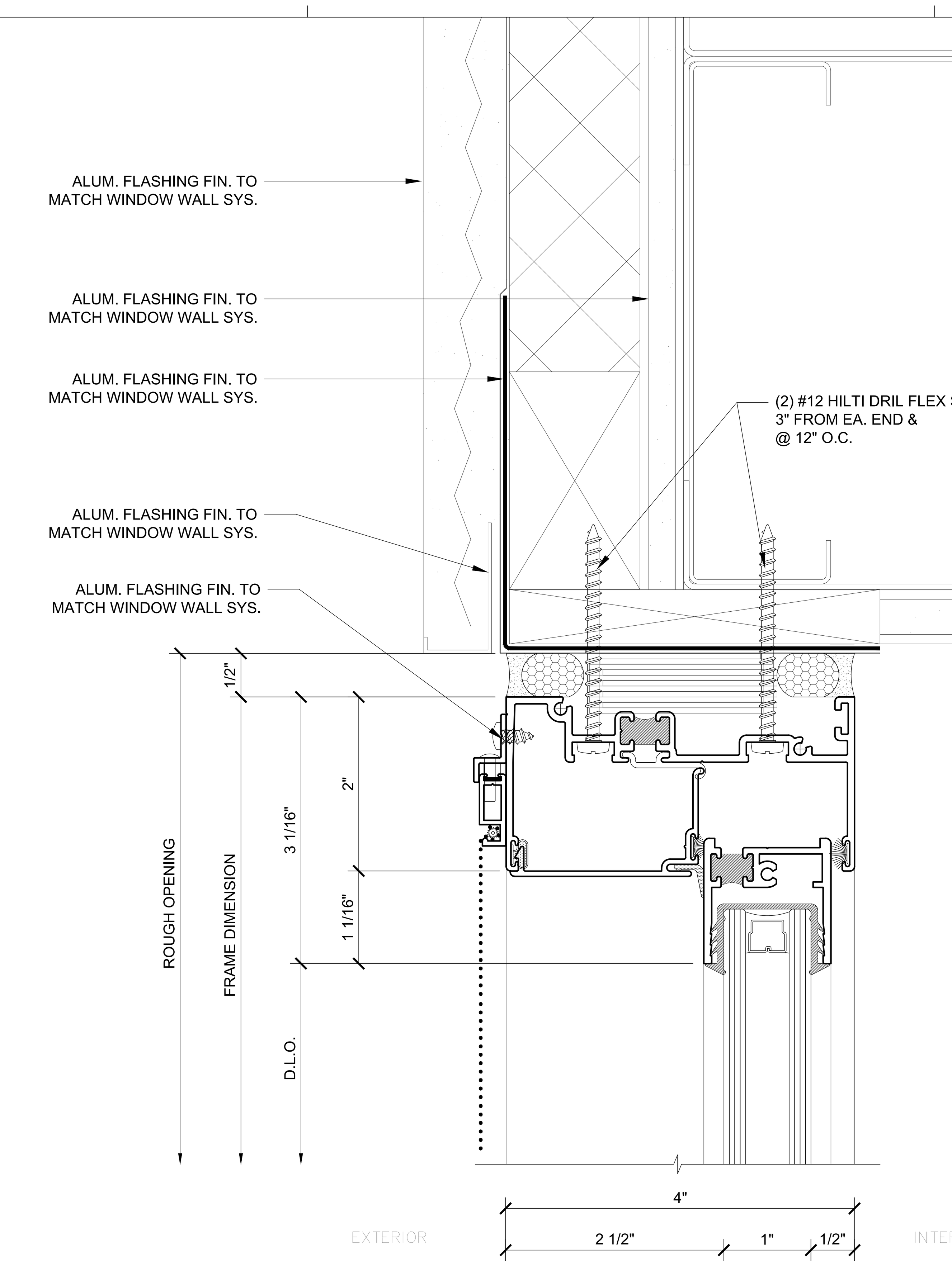
1 ULT-500 FIXED WDW HEAD

Arch Ref: -
Shop Ref: SF 110
Calc Ref: Pg. 50



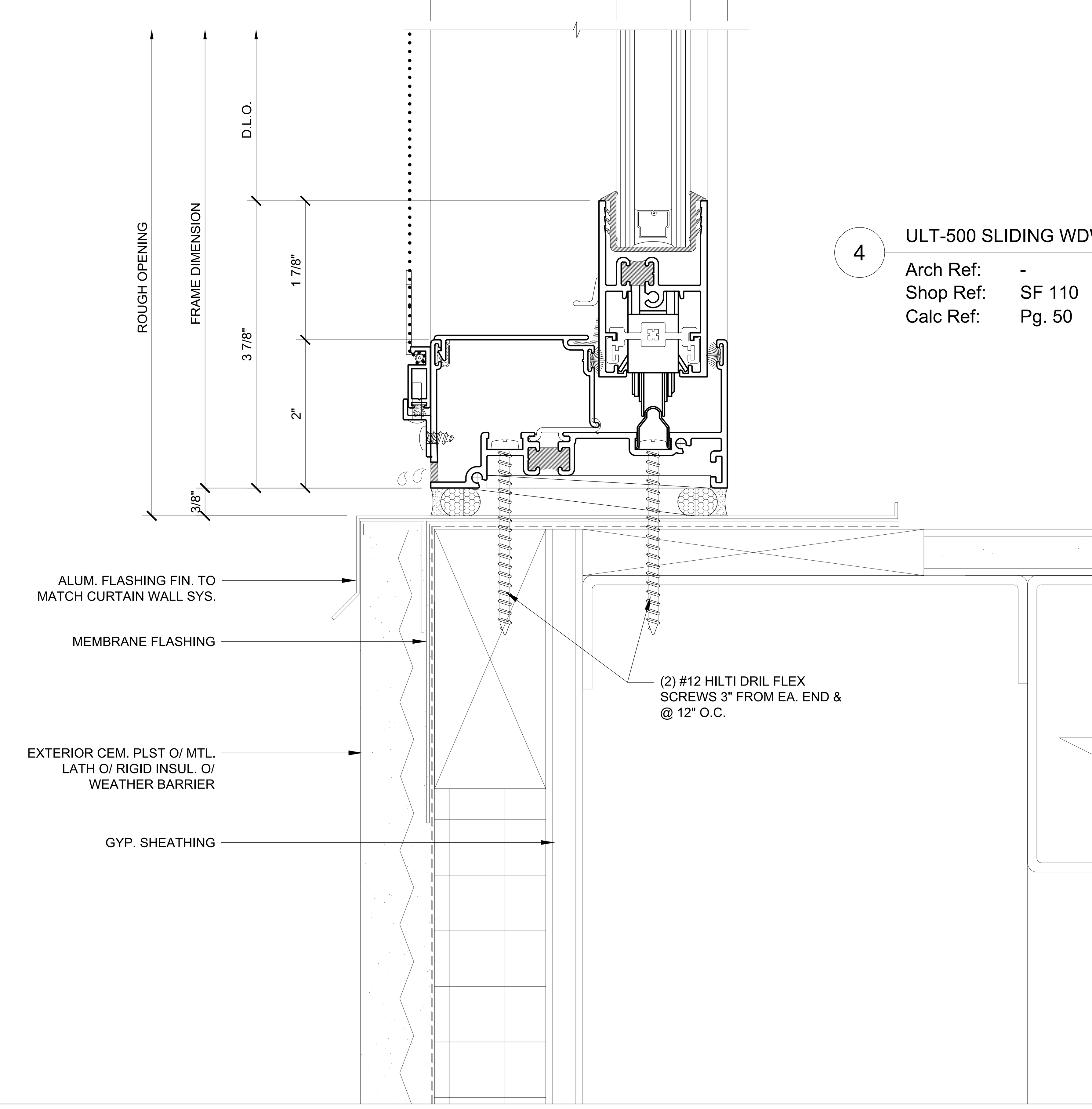
2 ULT-500 FIXED WDW SILL

Arch Ref: -
Shop Ref: SF 110
Calc Ref: Pg. 50



3 ULT-500 SLIDING WDW HEAD

Arch Ref: -
Shop Ref: SF 110
Calc Ref: Pg. 50



4 ULT-500 SLIDING WDW SILL

Arch Ref: -
Shop Ref: SF 110
Calc Ref: Pg. 50

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tBP project number: 20987.00
file name:
drawn by: checked by:
date: 9.2.2019
rev: date: description:

drawing title:
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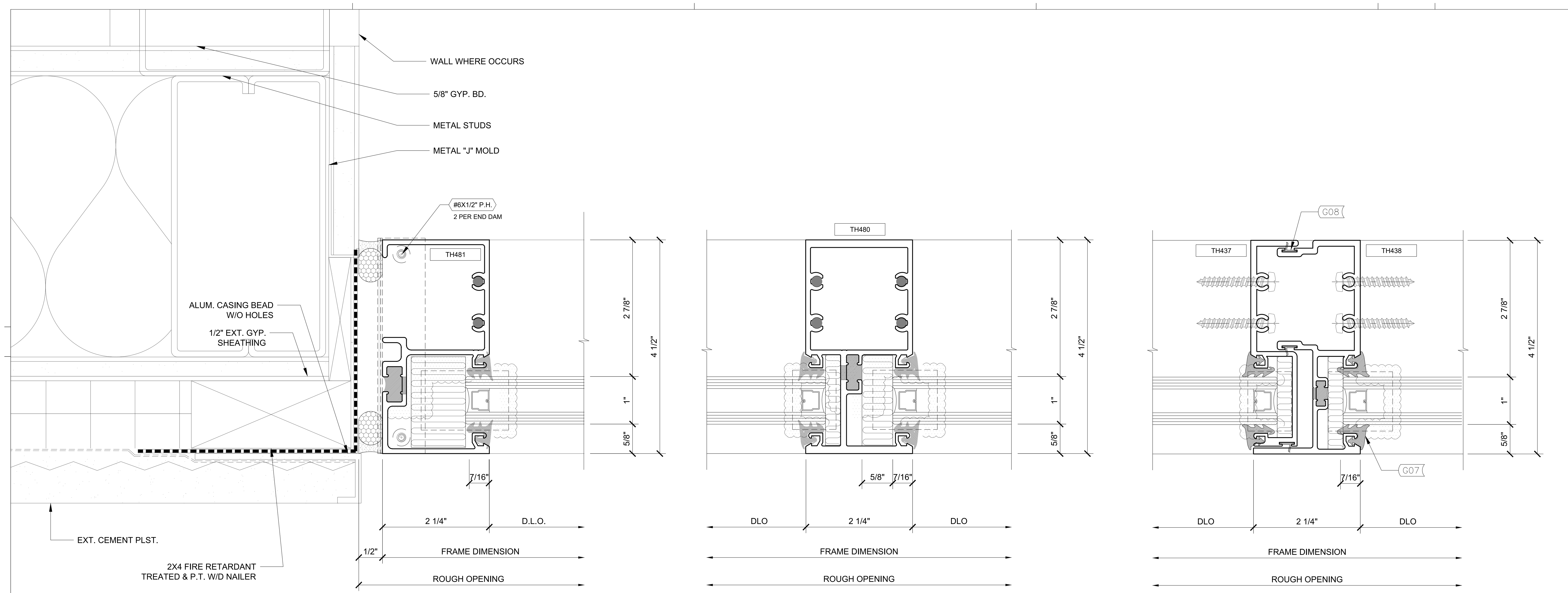
ULT-500

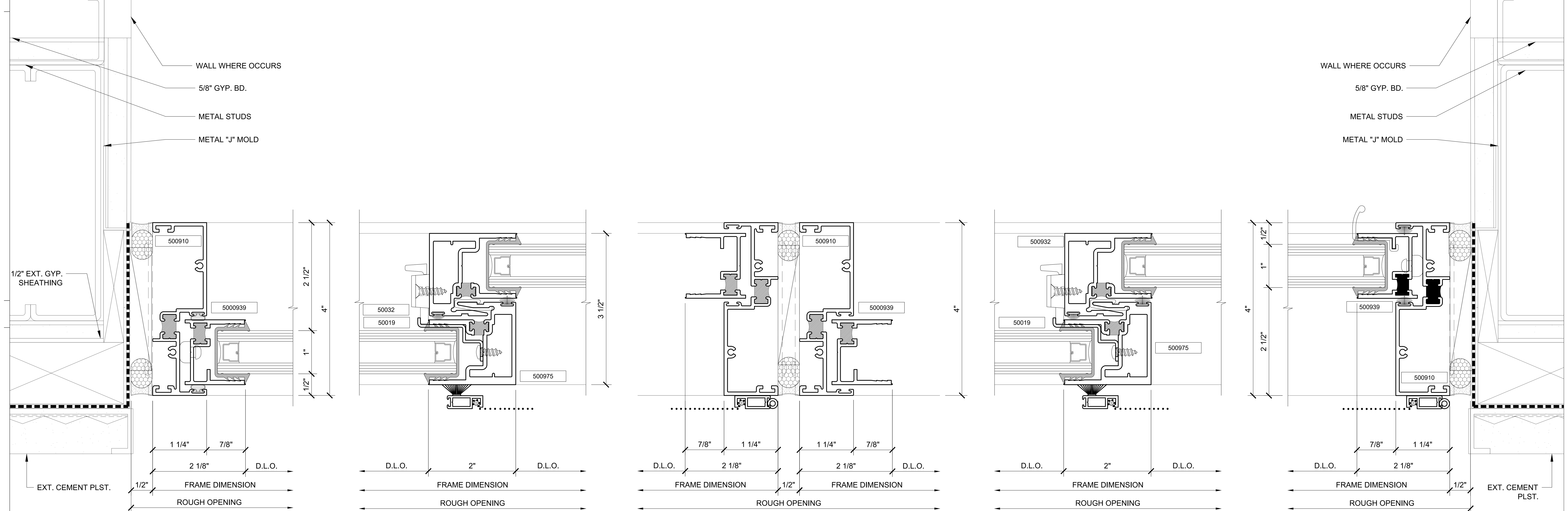
drawing no.:
CW 11.02



1 TC-470 JAMB @ CEM. PLST.
Arch Ref: 15/8.20
Shop Ref: SF 208
Calc Ref: Pg. 15

2 TC-470 INT. @ CEM. PLST.
Arch Ref: 9/8.20
Shop Ref: SF 208
Calc Ref: Pg. 12

8 TC-470 INTERMEDIATE
Arch Ref: 9/8.20
Shop Ref: SF 208
Calc Ref: Pg. 9



3 ULT-500 FIXED WDW JAMB
Arch Ref: -
Shop Ref: SF 110
Calc Ref: Pg. 18

4 ULT-500 WDW INTERLOCKER
Arch Ref: -
Shop Ref: SF 110
Calc Ref: Pg. 21

5 ULT-500 SLIDING/FIXED WDW
Arch Ref: -
Shop Ref: SF 110
Calc Ref: Pg. 18

6 ULT-500 WDW INTERLOCKER
Arch Ref: -
Shop Ref: SF 110
Calc Ref: Pg. 21

7 ULT-500 SLIDING WDW JAMB
Arch Ref: -
Shop Ref: SF 110
Calc Ref: Pg. 18

IDENTIFICATION STAMP
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APP. 03-119686 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/14/2019

agency

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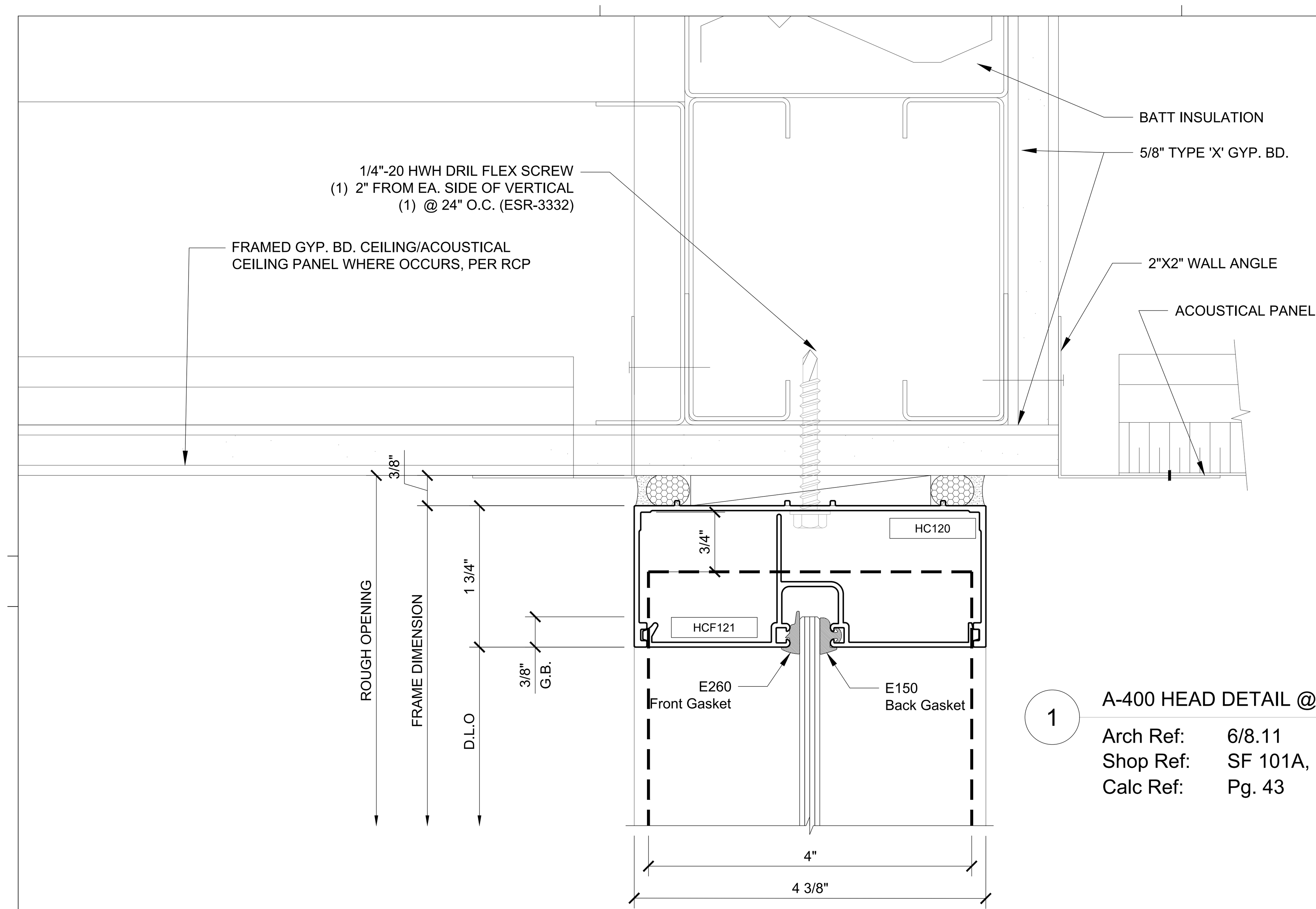
COMPTON, CA 90221

owner

tBP project number: 20987.00
file name:
drawn by: checked by:
date: 9.2.2019
rev: date: description:

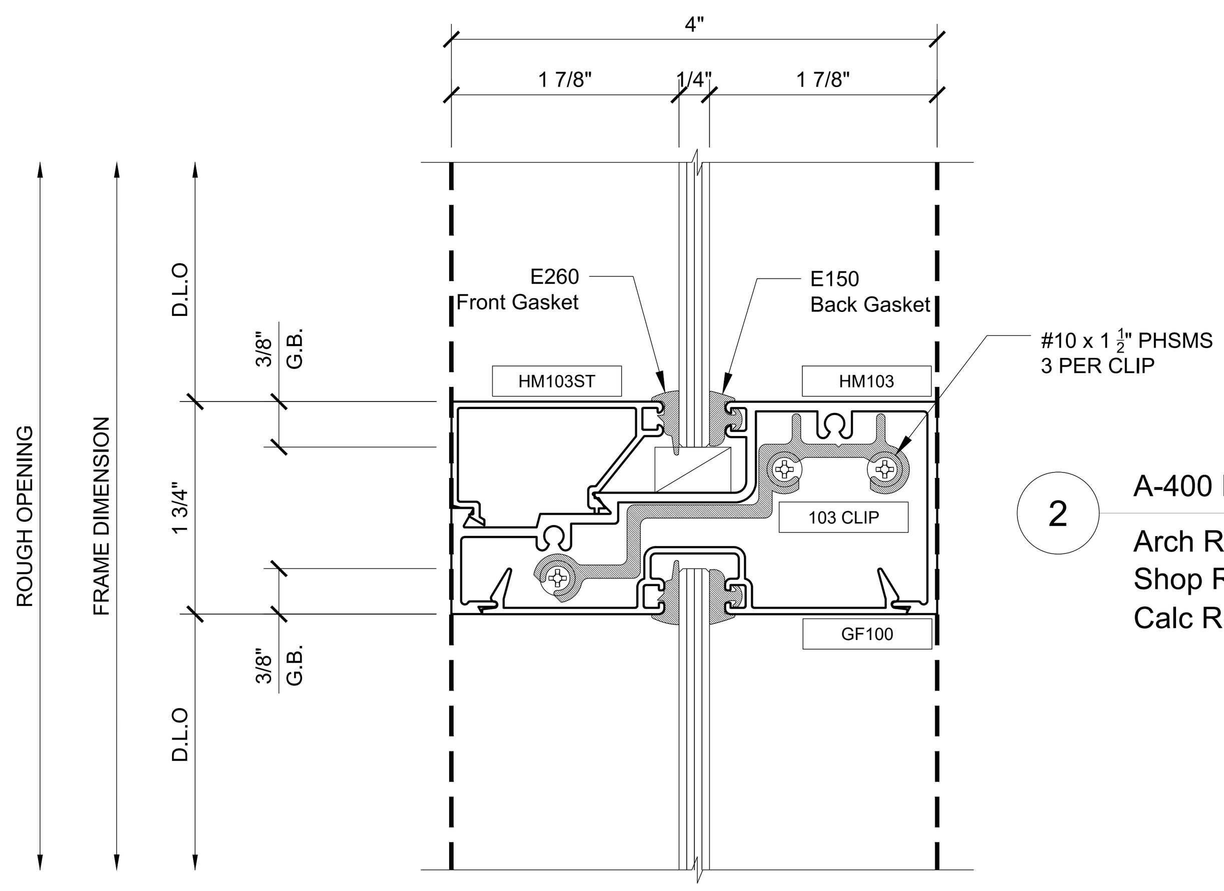
drawing title:
VERT. DETAILS
TC-470 / ULT-500

drawing no.:
CW 12.01



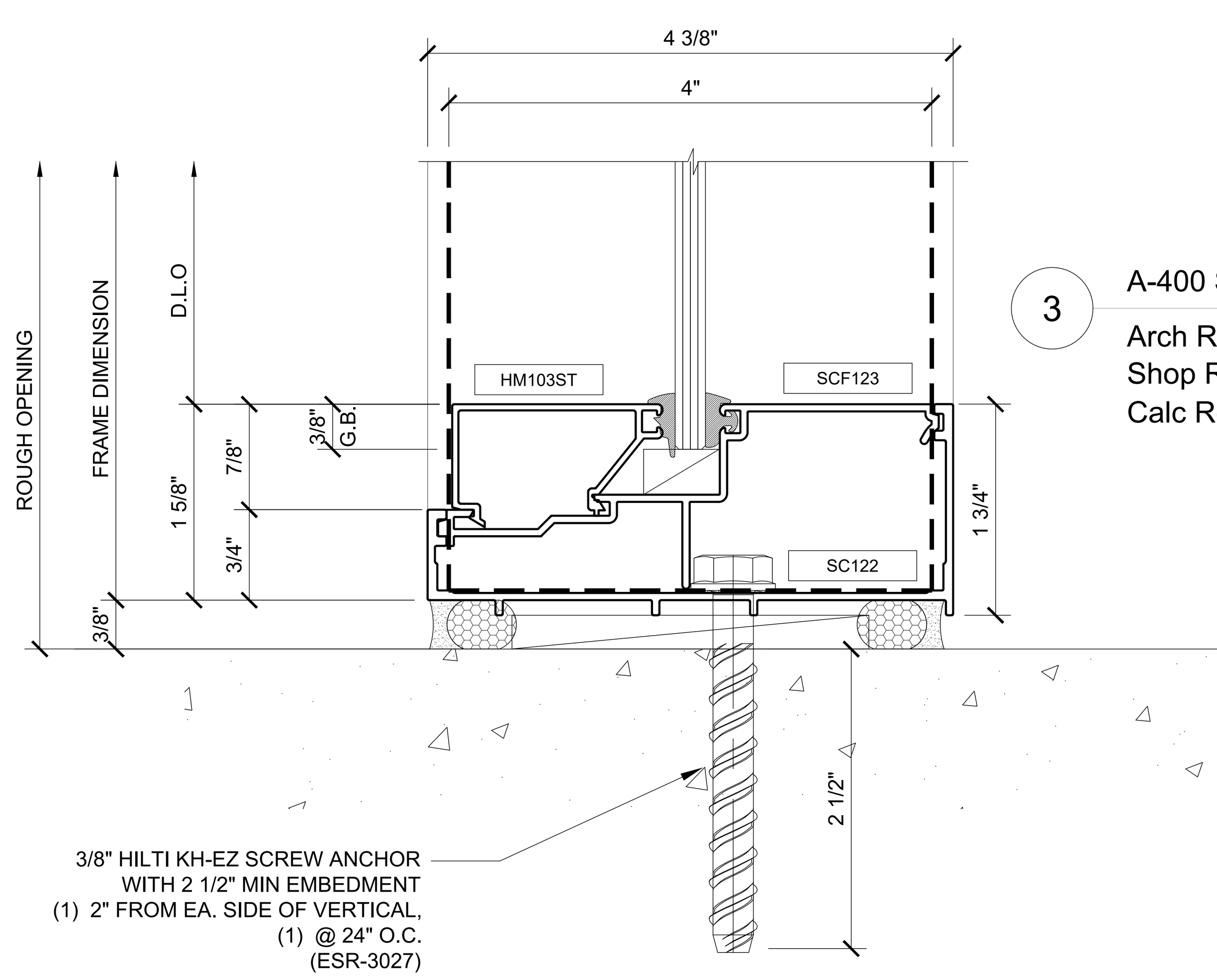
1 A-400 HEAD DETAIL @ CEILING

Arch Ref: 6/8.11
Shop Ref: SF 101A, 103A, 104A, 202, 203
Calc Ref: Pg. 43



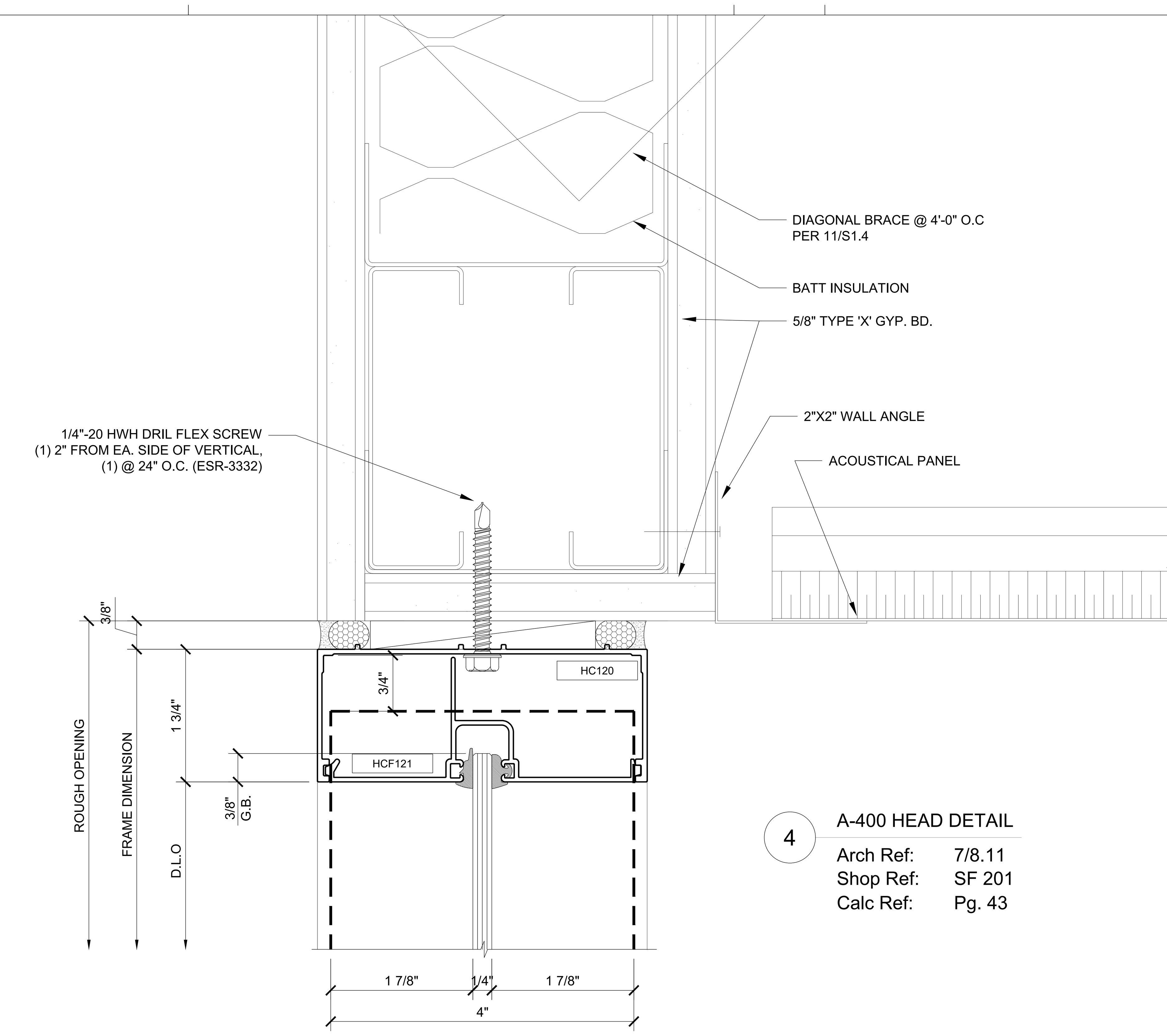
2 A-400 HORIZ. INTERMEDIATE

Arch Ref: 12/8.11
Shop Ref: SF 101A, 103A, 201, 202
Calc Ref: -



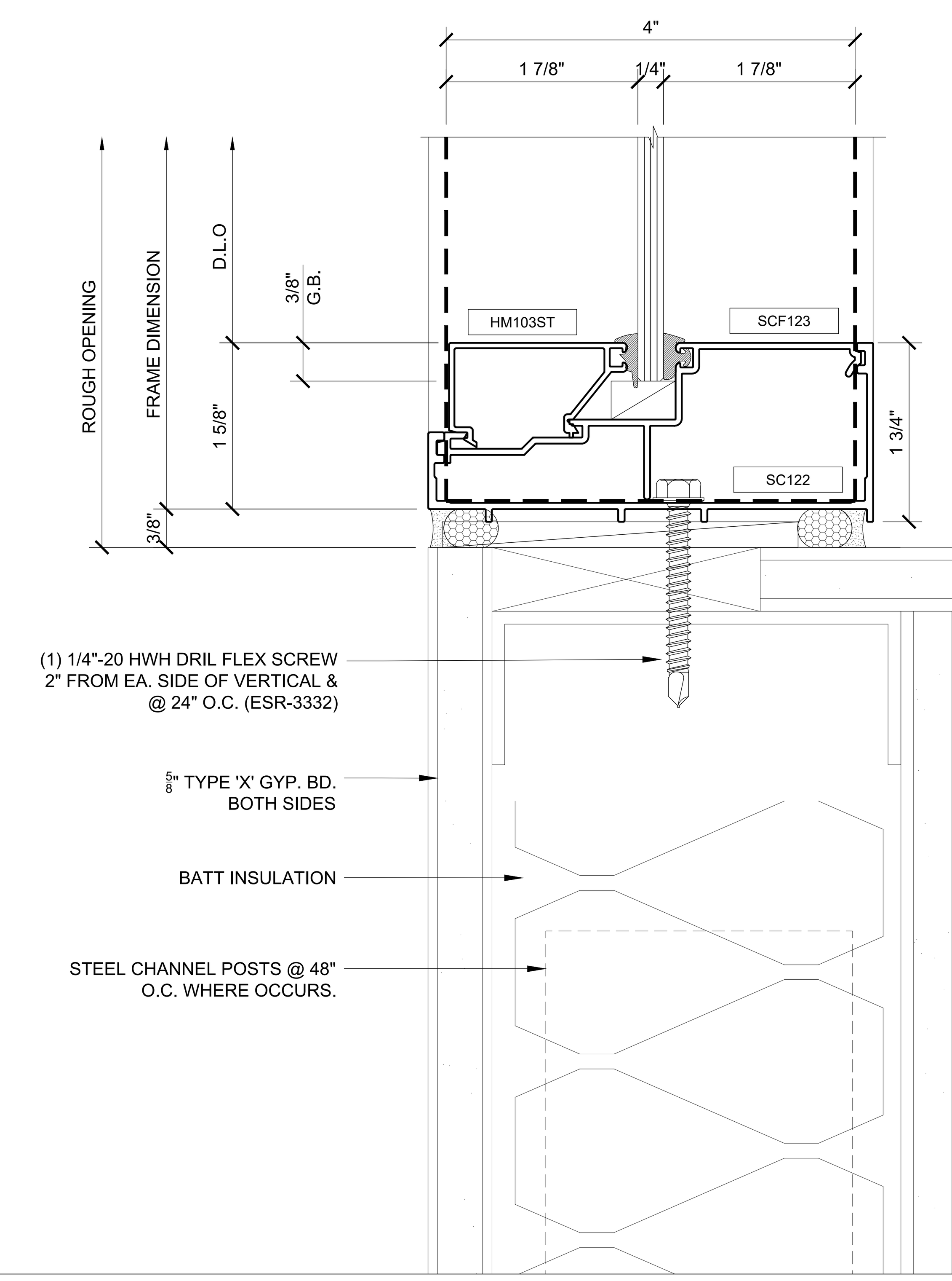
3 A-400 SILL DETAIL @ F.F

Arch Ref: 11/8.11
Shop Ref: SF 101A, 103A, 201, 202
Calc Ref: Pg. 43



4 A-400 HEAD DETAIL

Arch Ref: 7/8.11
Shop Ref: SF 201
Calc Ref: Pg. 43



5 A-400 SILL DETAIL

Arch Ref: 1/8.11
Shop Ref: SF 104A, 203
Calc Ref: Pg. 43

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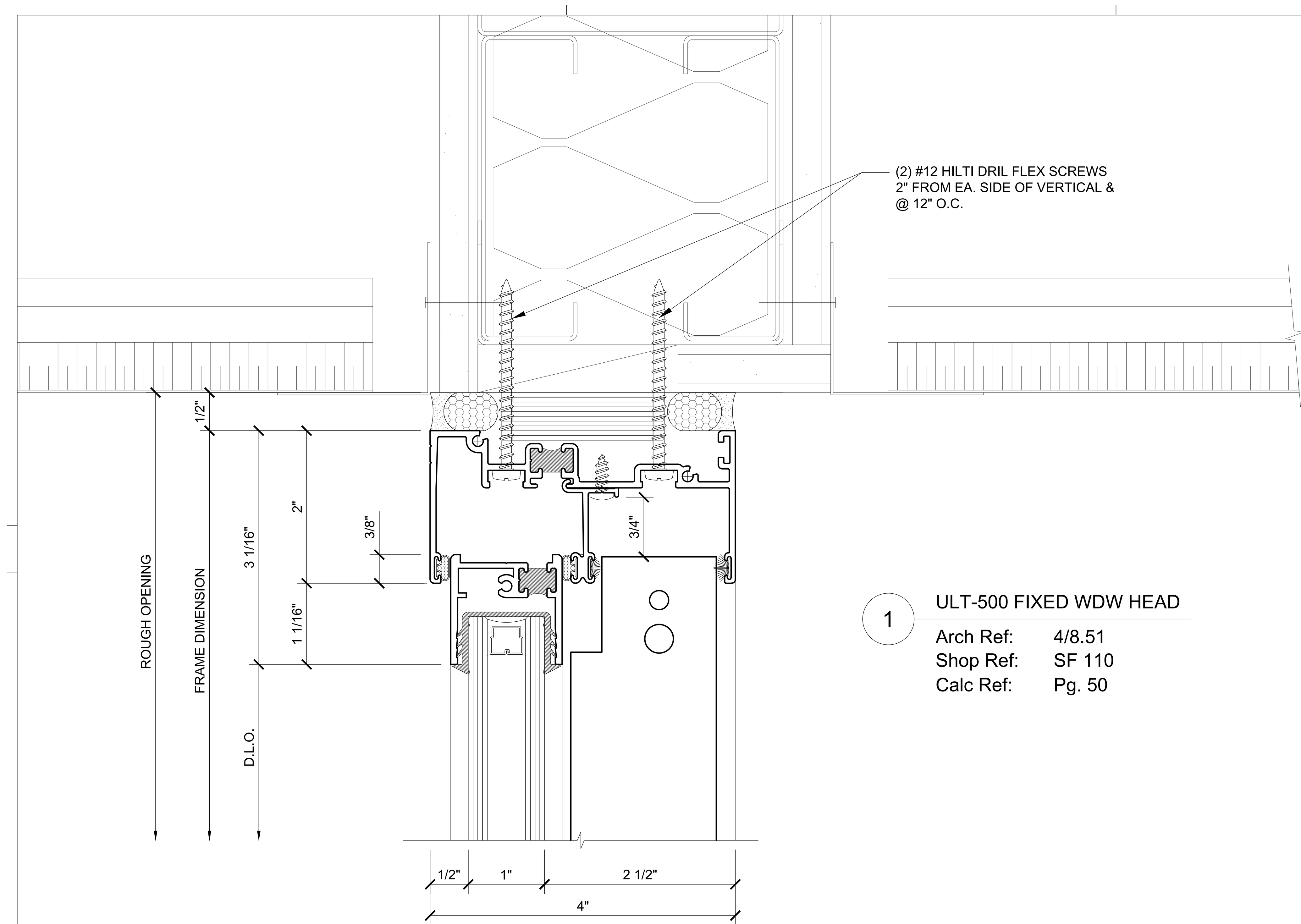
tBP project number 20987.00
file name:
drawn by: checked by:
date: 9.2.2019
rev: date: description:

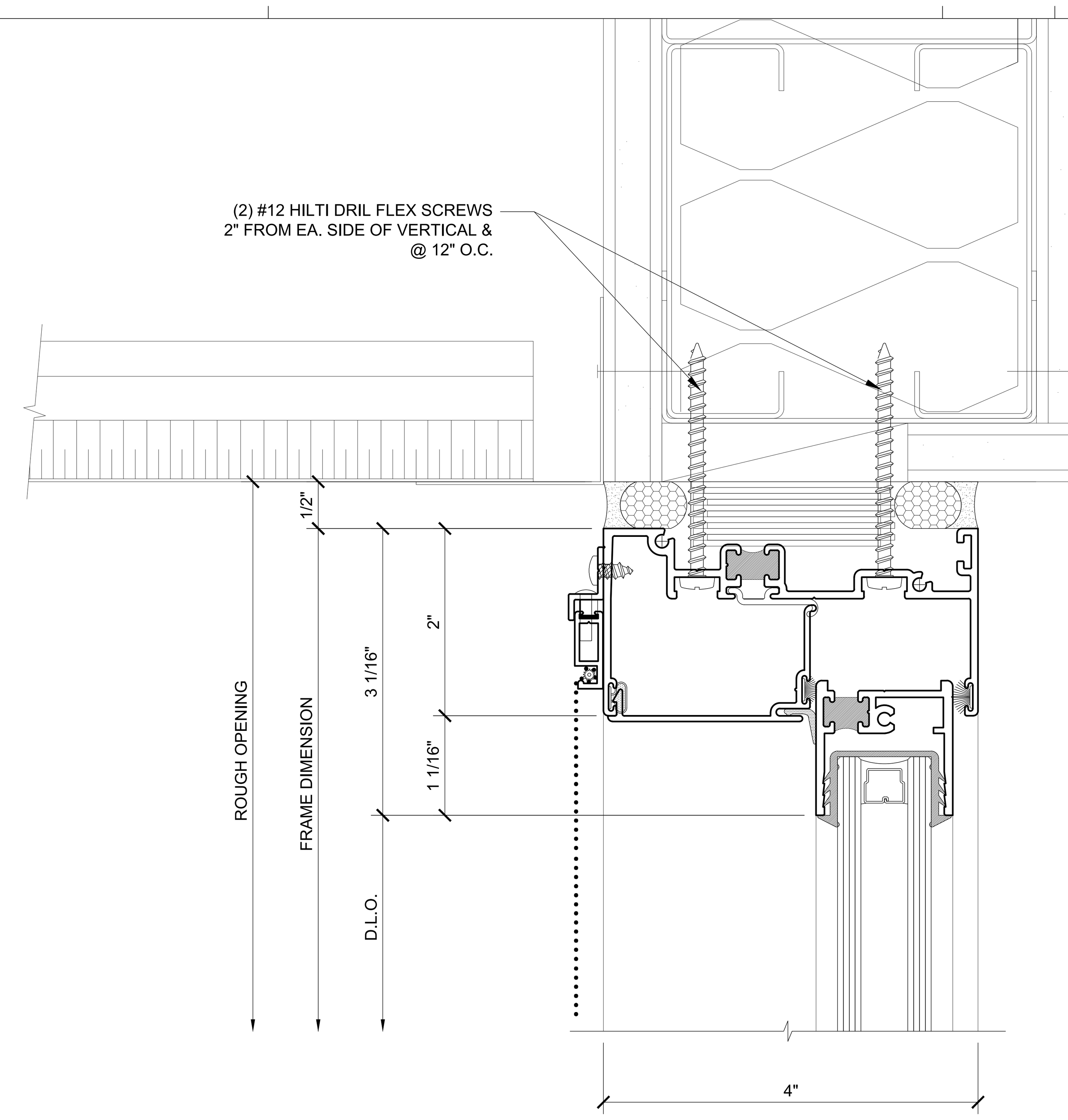
drawing title:
HORIZ. DETAILS
A-400 (INTERIOR)

drawing no.:
CW 13.01



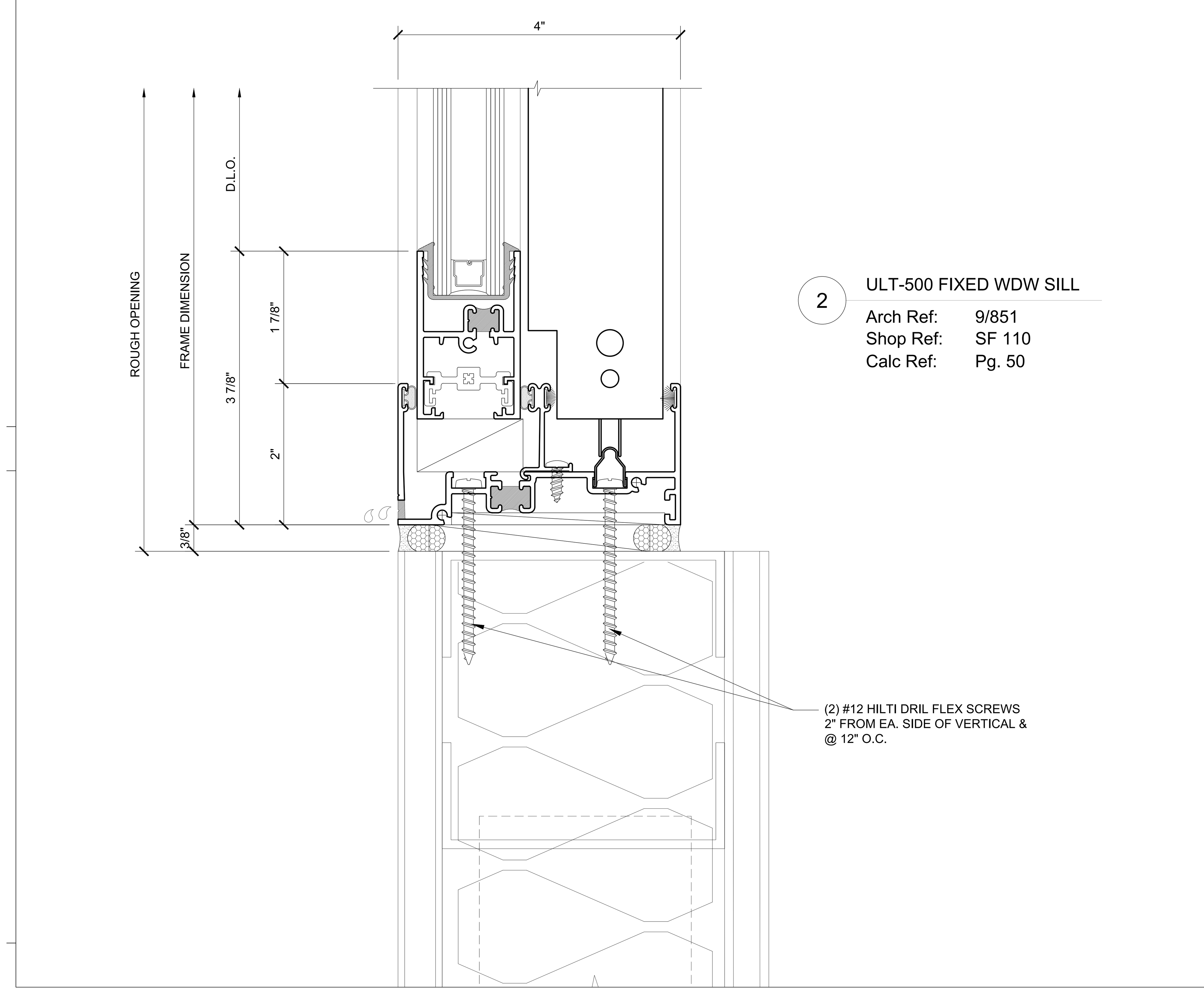
1 ULT-500 FIXED WDW HEAD

Arch Ref: 4/8.51
Shop Ref: SF 110
Calc Ref: Pg. 50



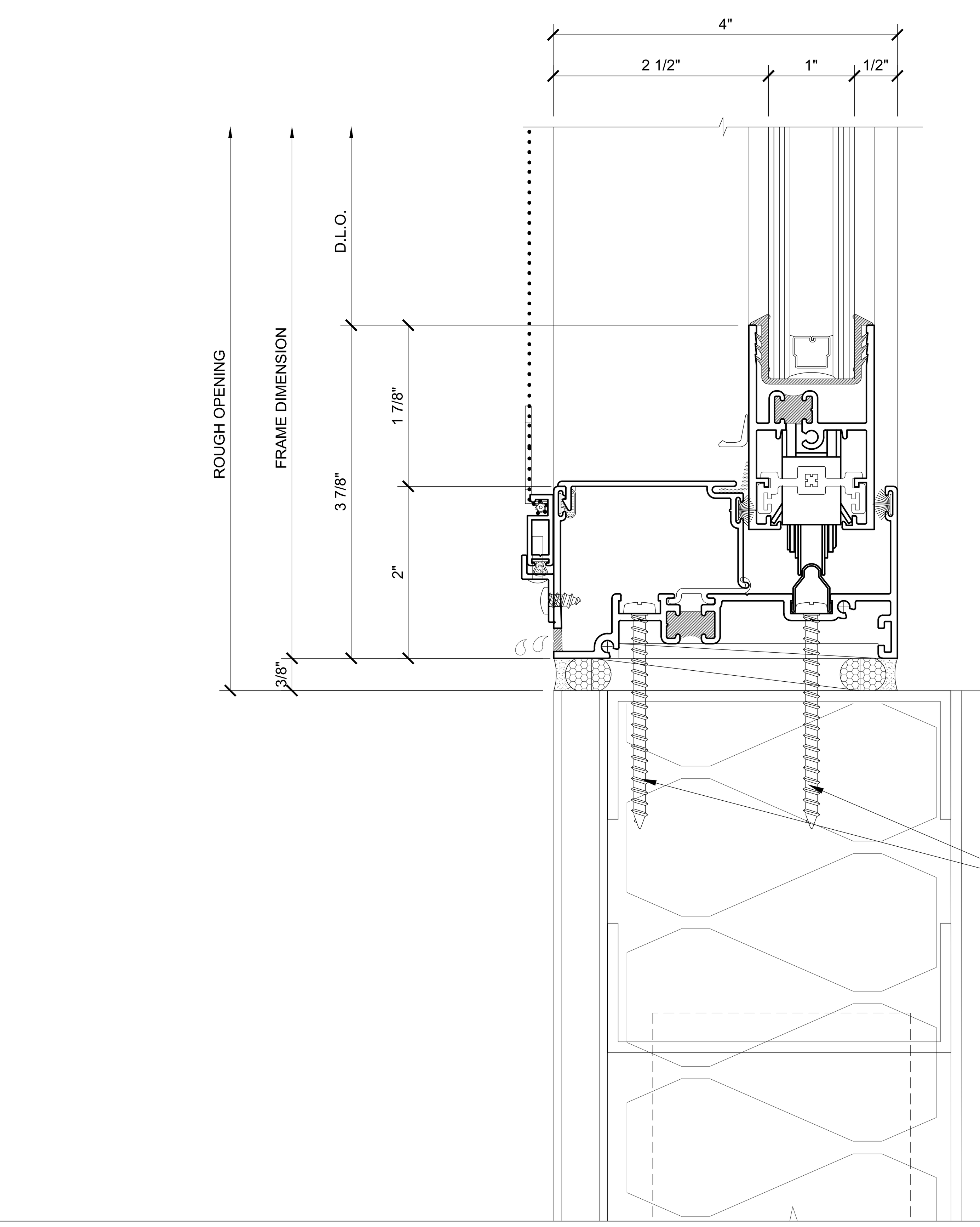
3 ULT-500 SLIDING WDW HEAD

Arch Ref: 14/851
Shop Ref: SF 110
Calc Ref: Pg. 50



2 ULT-500 FIXED WDW SILL

Arch Ref: 9/851
Shop Ref: SF 110
Calc Ref: Pg. 50



4 ULT-500 SLIDING WDW SILL

Arch Ref: 10/851
Shop Ref: SF 110
Calc Ref: Pg. 50

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file name:

drawn by: checked by:

date: 9.2.2019

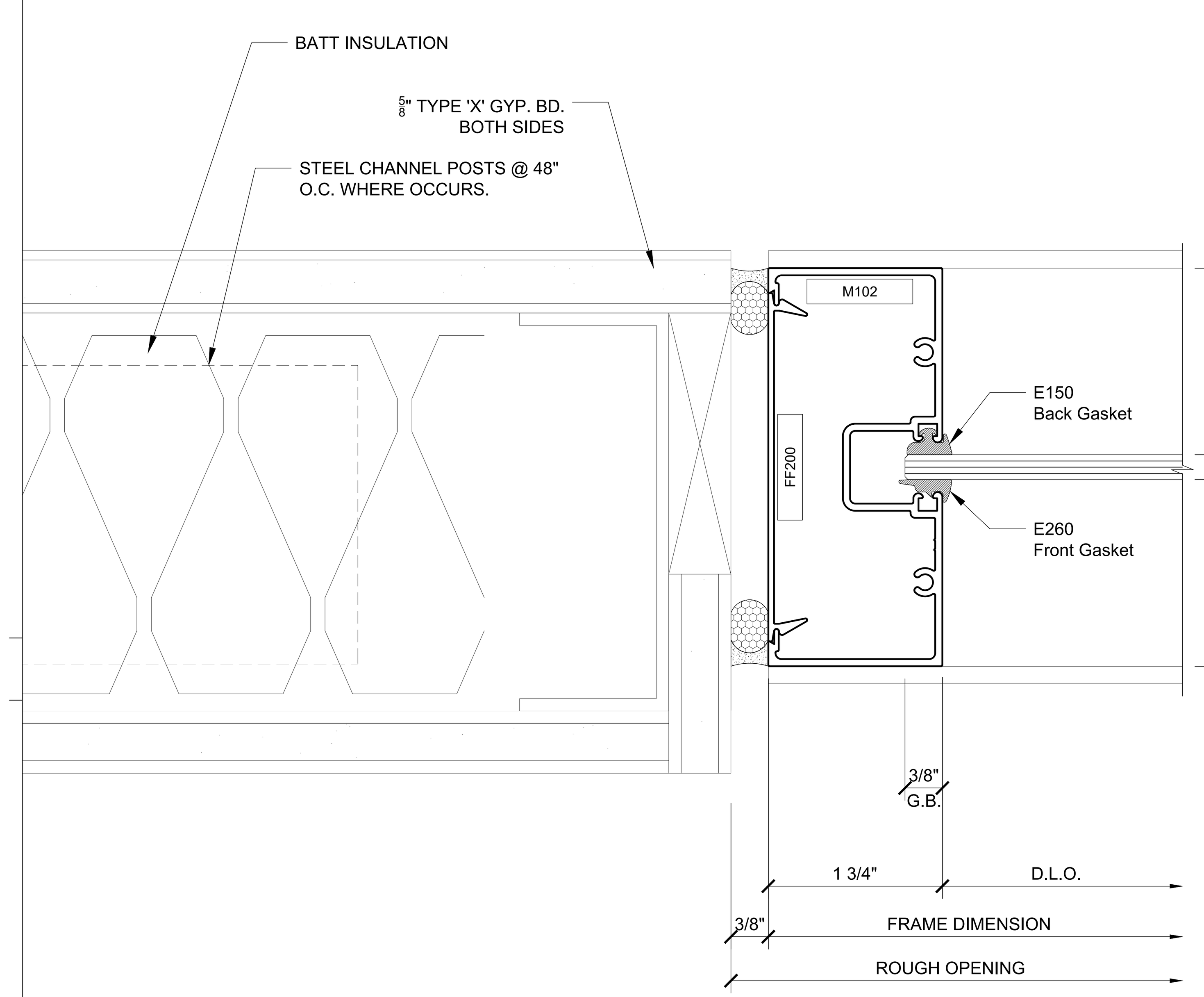
rev: date: description:

drawing title:

HORIZ. DETAILS
A-400 (INTERIOR)

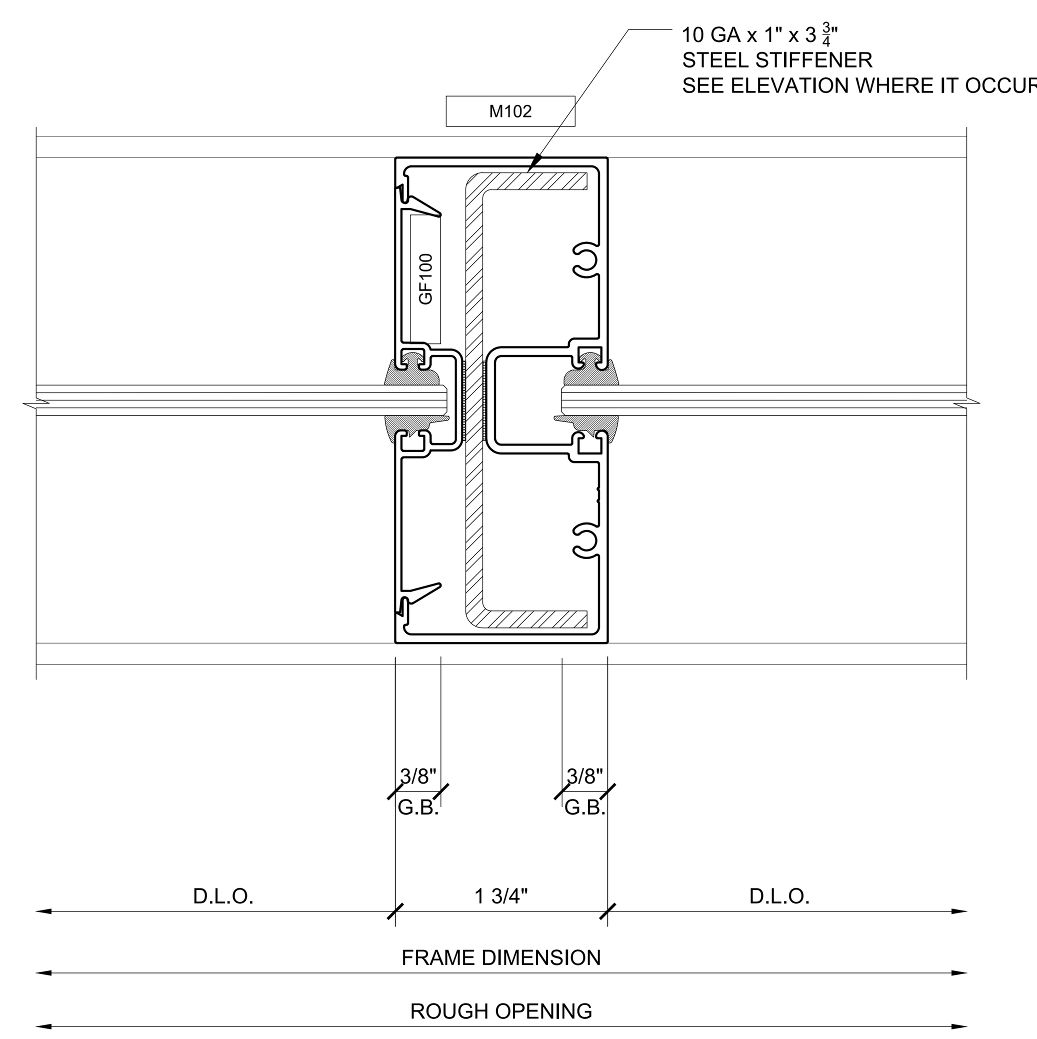
drawing no.:

CW 13.02



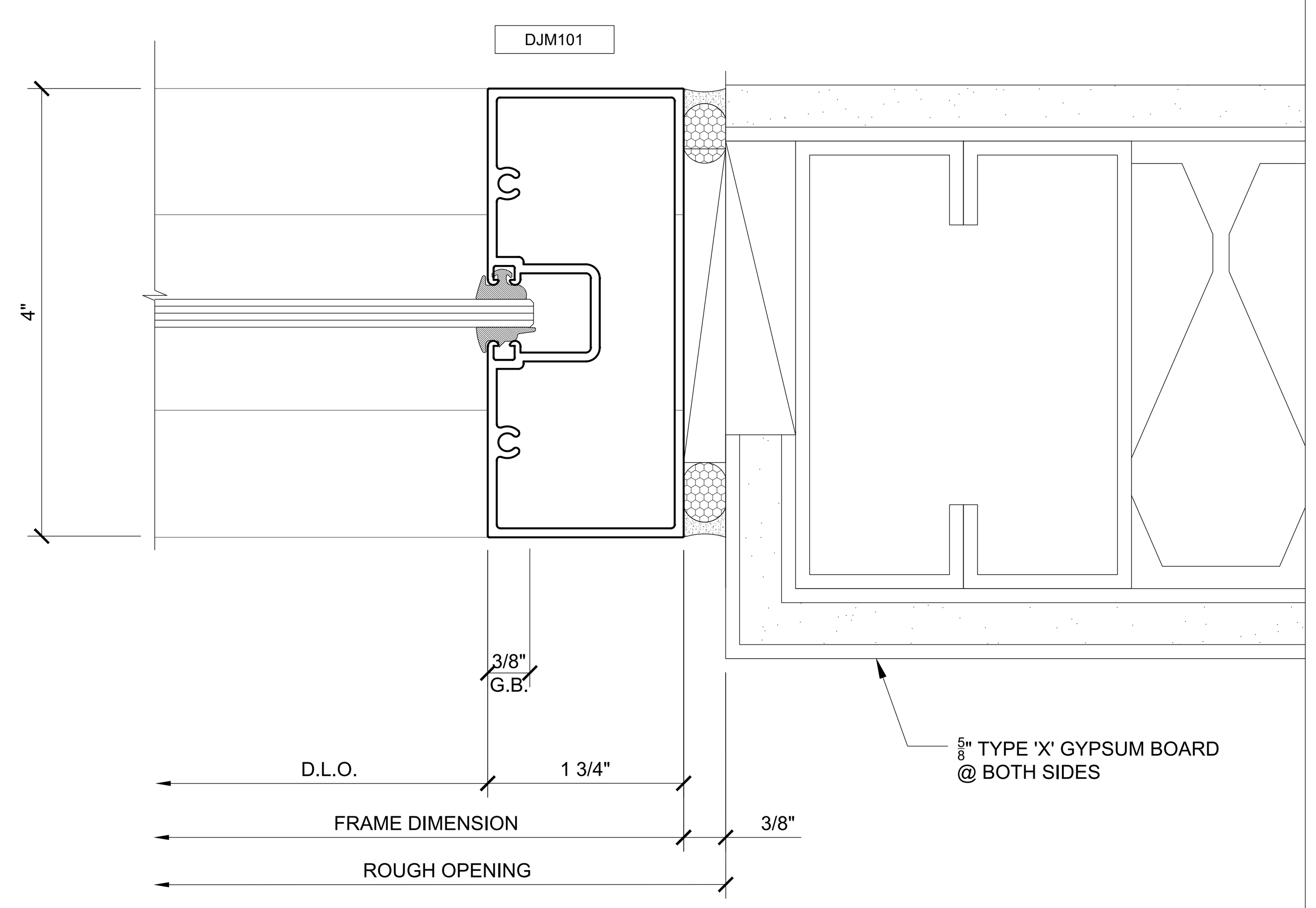
1 A-400 JAMB DETAIL

Arch Ref: 1/8.11
Shop Ref: SF 101A, 103A, 104A, 201, 202, 203
Calc Ref: Pg. 24



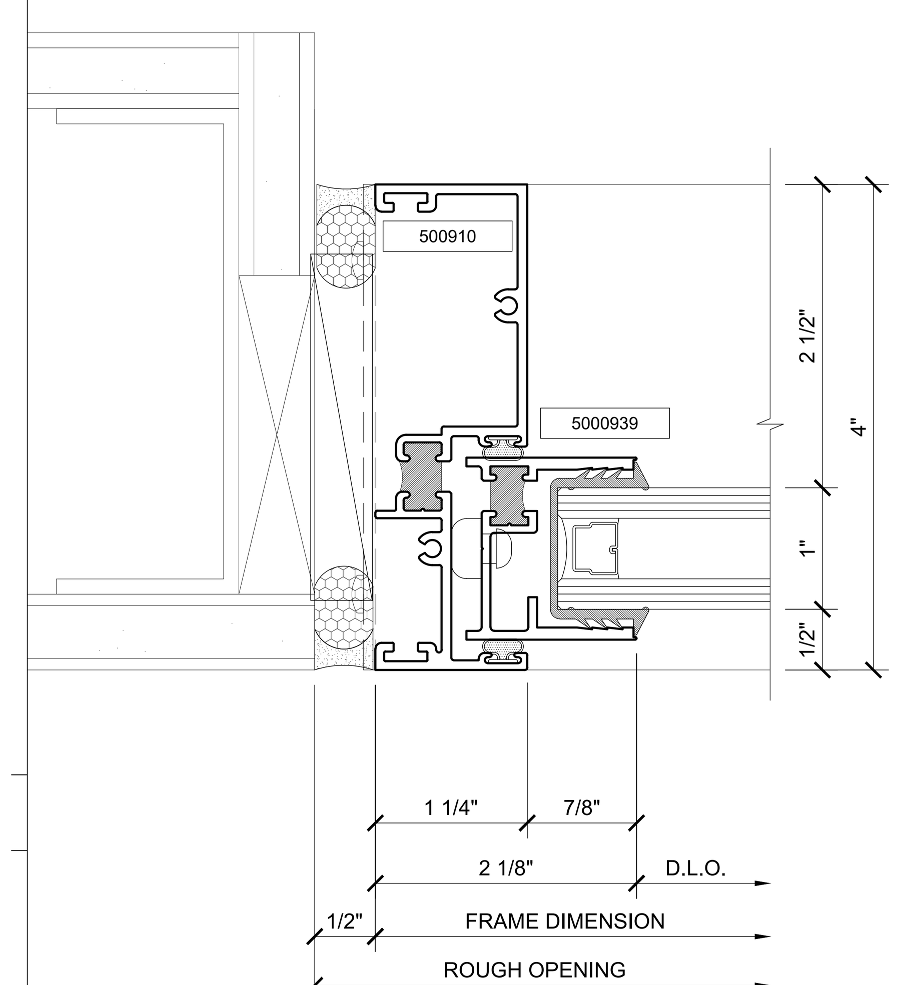
2 A-400 VERTICAL INTERMEDIATE

Arch Ref: 12/8.11
Shop Ref: SF 103A, 104A, 202, 203
Calc Ref: Pg. 24



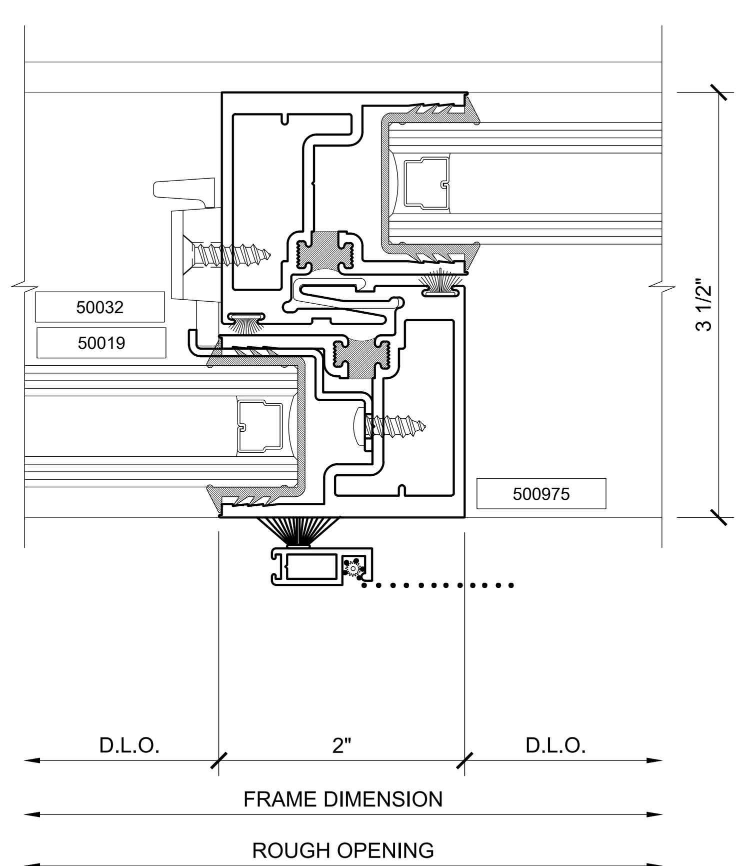
2A A-400 DOOR JAMB TRANSOM

Arch Ref: -
Shop Ref: 205/6.02
Calc Ref:



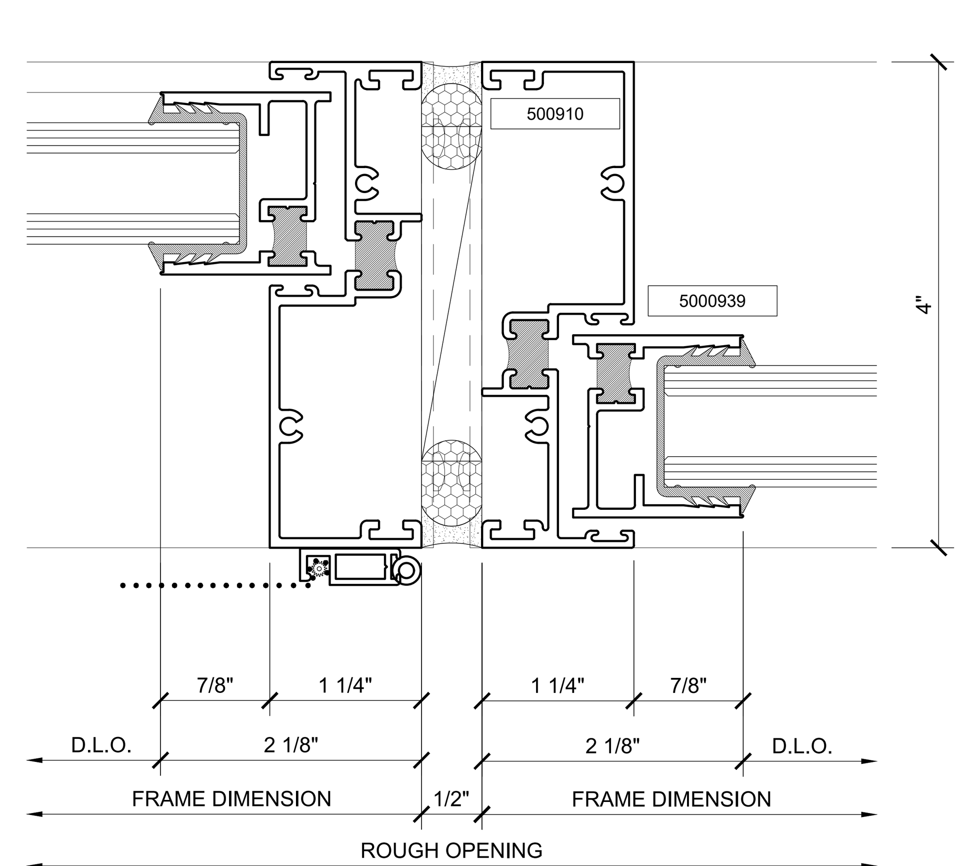
3 ULT-500 FIXED WDW JAMB

Arch Ref: -
Shop Ref: SF 110
Calc Ref: Pg. 18



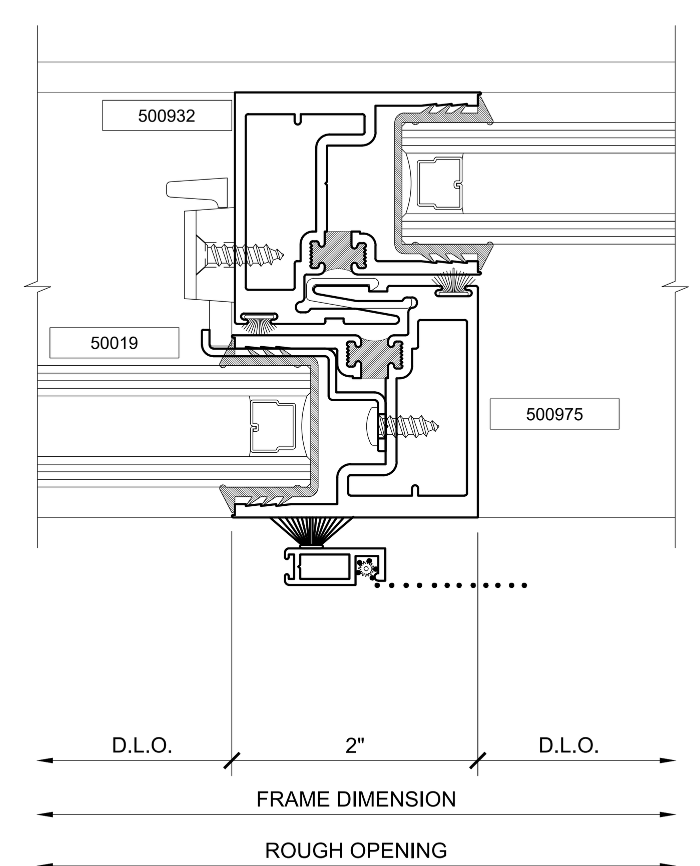
4 ULT-500 WDW INTERLOCKER

Arch Ref: -
Shop Ref: SF 110
Calc Ref: Pg. 21



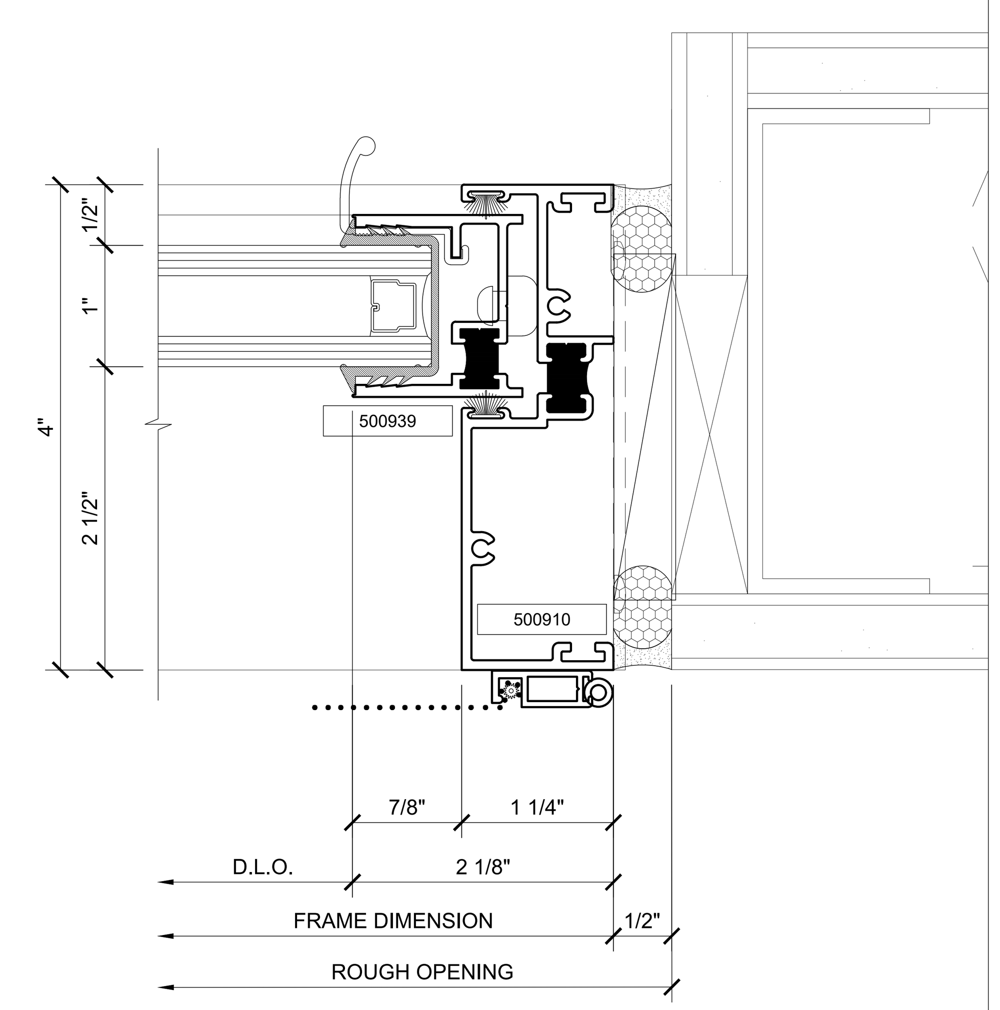
5 ULT-500 SLIDING/FIXED WDW

Arch Ref: -
Shop Ref: SF 110
Calc Ref: Pg. 18



6 ULT-500 WDW INTERLOCKER

Arch Ref: -
Shop Ref: SF 110
Calc Ref: Pg. 21



7 ULT-500 SLIDING WDW JAMB

Arch Ref: -
Shop Ref: SF 110
Calc Ref: Pg. 18

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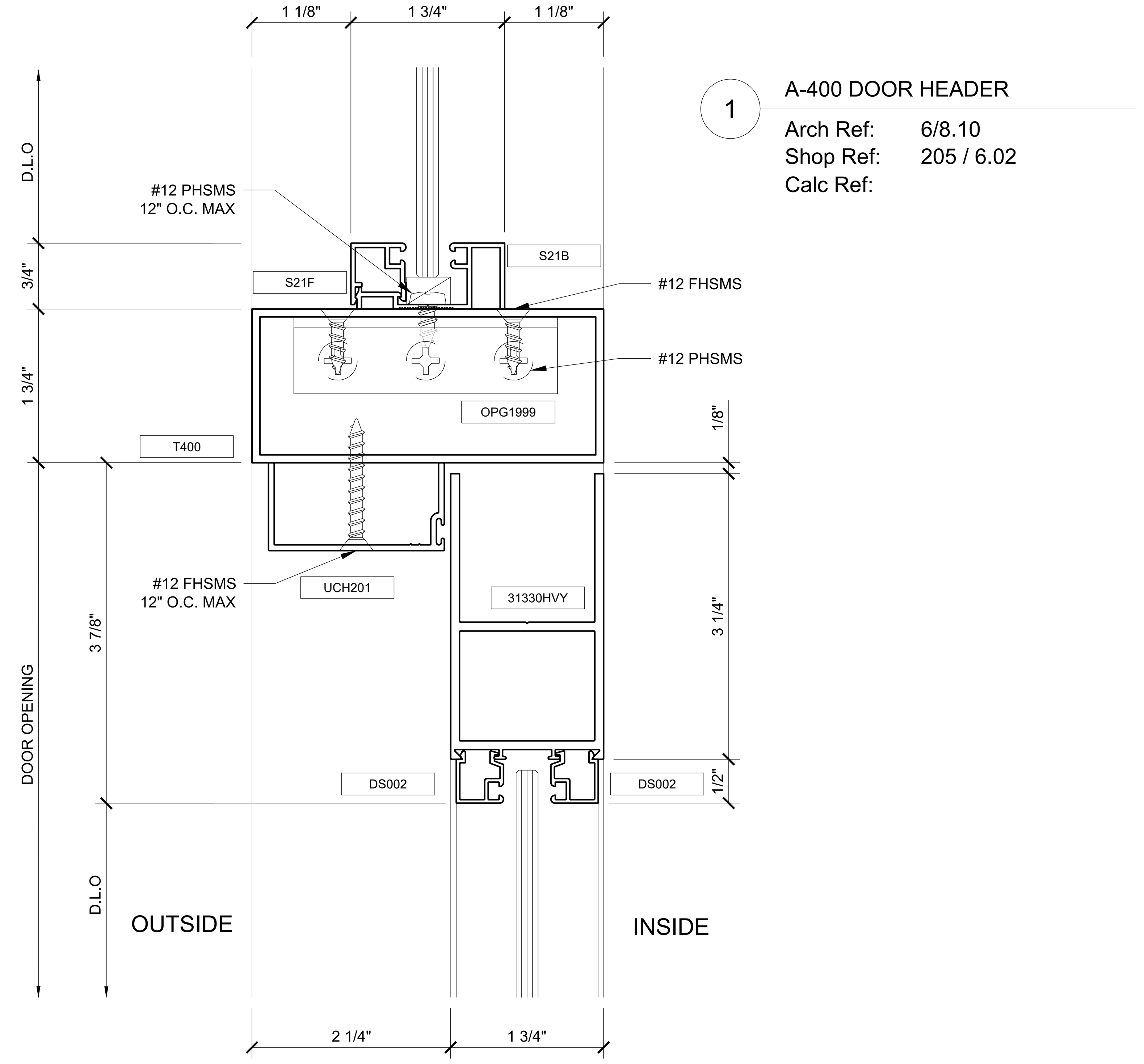
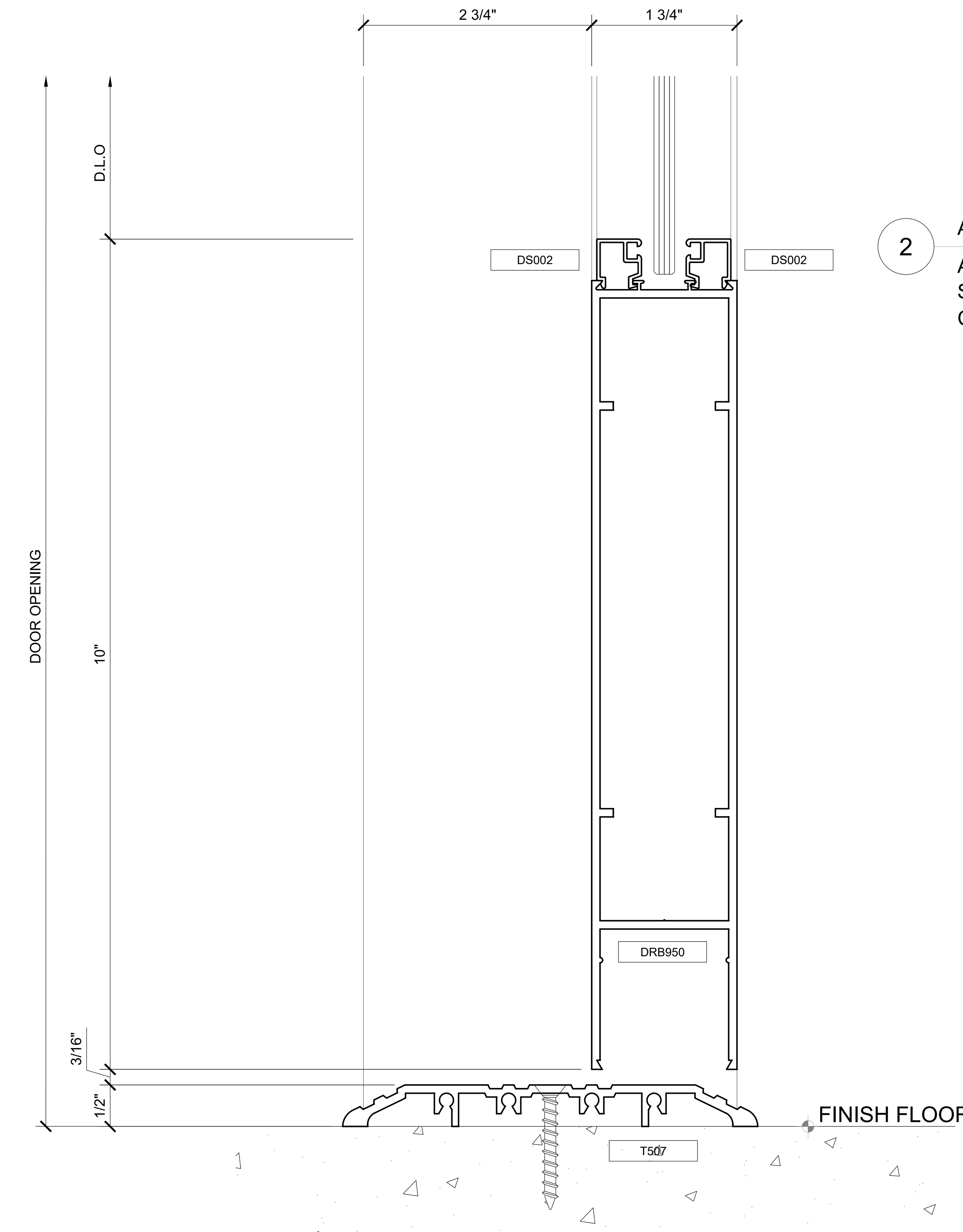
VERT. DETAILS
A-400 (INTERIOR)

drawing no.:

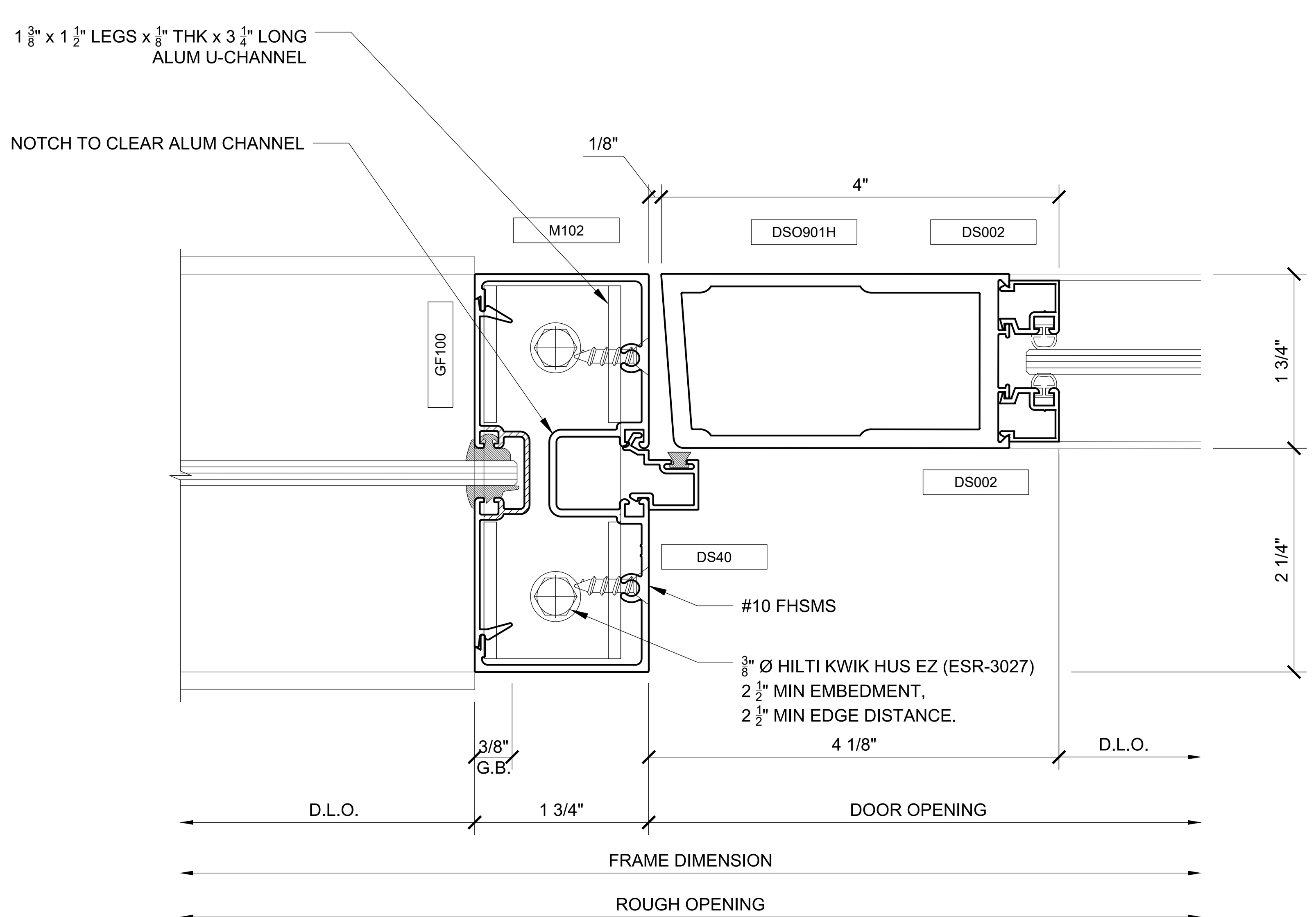
CW 14.01



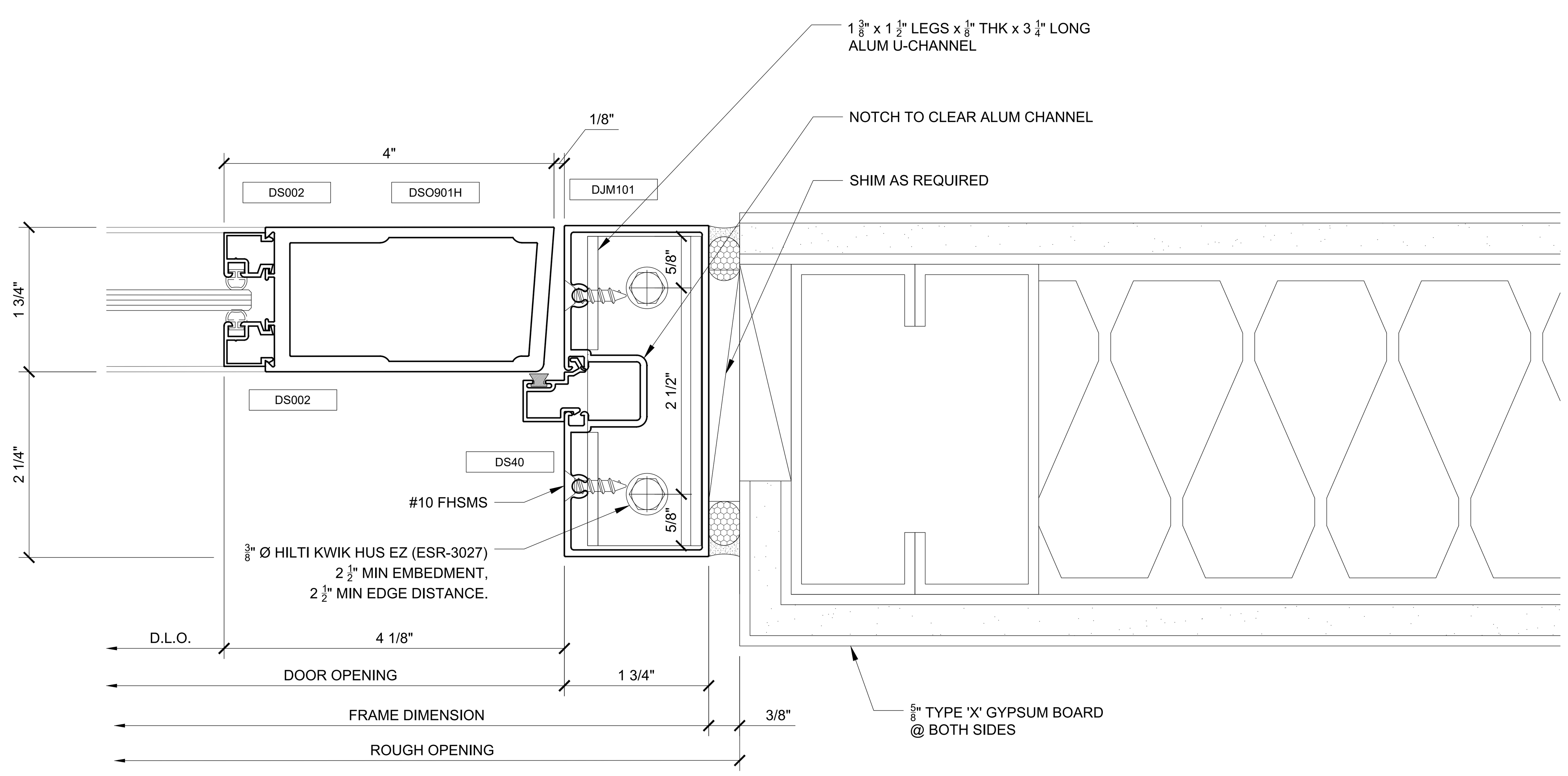
1 A-400 DOOR HEADER
Arch Ref: 6/8.10
Shop Ref: 205 / 6.02
Calc Ref:



2 A-400 DOOR BOTTOM
Arch Ref: -
Shop Ref: 205 / 6.02
Calc Ref:



3 A-400 VERTICAL DOOR JAMB
Arch Ref: 2/8.10
Shop Ref: 205/6.02
Calc Ref: -



4 A-400 DOOR WALL JAMB
Arch Ref: 7/8.10
Shop Ref: 205/6.02
Calc Ref: -

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A-400 (INTERIOR)

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