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MID-CONTINENT PUBLIC LIBRARY
NEW BRANCH LIBRARY
EAST LEE'S SUMMIT

WORK PACKAGE #04

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SYMBOLS LEGEND

SECTION REFERENCE. UPPER NUMBER INDICATES DETAIL NUMBER. LOWER NUMBER INDICATES SHEET NUMBER.

DETAIL REFERENCE. UPPER NUMBER INDICATES DETAIL NUMBER. LOWER NUMBER INDICATES SHEET NUMBER.

INTERIOR ELEVATION SYMBOL - OUTER NUMBER INDICATES ELEVATION NUMBER. INNER NUMBER INDICATES SHEET NUMBER.

CASEWORK ELEVATION. UPPER NUMBER INDICATES CASEWORK ELEVATION NUMBER. LOWER NUMBER INDICATES SHEET NUMBER.

KEYNOTE SYMBOL

WINDOW SYMBOL

STOREFRONT/CURTAIN WALL SYMBOL

DOOR SYMBOL

EQUIPMENT NUMBER

WALL TYPE

COLUMN GRID SYMBOLS

NORTH ARROW

LEVEL LINE

DATUM MARK

ABBREVIATIONS

ABBREVIATIONS APPLY TO ARCHITECTURAL SHEETS ONLY AND ARE TYPICAL AND MAY OR MAY NOT OCCUR ON THIS PROJECT. IF AN ABBREVIATION FOUND ON DOCUMENTS IS NOT LISTED, CONTRACTOR SHALL CONTACT ARCHITECT FOR INTERPRETATION.

ABV	ABOVE	H	HEIGHT	TB	TACKBOARD
AESS	ARCHITECTURAL EXPOSED STRUCTURAL STEEL	HBD	HARDBOARD	TEL	TELEPHONE
AFF	ABOVE FINISHED FLOOR	HDCF	HANDICAPPED DRINKING FOUNTAIN	TV	TELEVISION
AFC	ABOVE FINISHED GRADE	HDF	HANDICAPPED DRINKING FOUNTAIN	TEMP	TEMPERED
AP	ACCESS PANEL	HDWR	HARDWARE	TERR	TERRAZZO
AC BD	ACOUSTICAL BOARD	HD	HEAD	TH	TEMPERED GLASS
AO PLAS	ACOUSTICAL PLASTER	HDR	HEADER	THICK	THICKNESS
AC TILE	ACOUSTICAL TILE	HTG	HEATING	THRS	THRESHOLD
ADH	ADHESIVE	HVAC	HEATING/VENTILATING/AIR COND	TLT	TOILET
ADJ	ADJUSTABLE	HOT	HEATING	TPD	TOILET PAPER DISPENSER
ADS	ADVANCED DRAINAGE SYSTEMS	HC	HOLLOW CORE	T&G	TONGUE AND GROOVE
AGG	AGGREGATE	HM	HOLLOW METAL	TOW	TOP OF WALL
A/C	AIR CONDITIONING	HORIZ	HORIZONTAL	TOS	TOP OF STEEL
ALT	ALTERNATE	HB	HOSE BIBB	TOM	TOP OF MASONRY
AB	ANCHOR BOLT	HWH	HOT WATER HEATER	TB	TOWEL BAR
ANOD	ANODIZED			TREAD	TREAD
ARCH	ARCHITECT(URAL)	INCL	INCLUDE(D), (ING)	TYP	TYPICAL
AD	AREA DRAIN	ID	INSIDE DIAMETER	UNFIN	UNFINISHED
ASPH	ASPHALT	INSUL	INSULATED	UNO	UNLESS NOTED OTHERWISE
@	AT	INT	INTERIOR	UR	URINAL
		IWS	ICE & WATER SHIELD (BITUTHENE)	UGE	UNDERGROUND ELECTRIC
BSMT	BASEMENT	JT	JOINT		
BRG	BEARING	JST	JOIST	VERT	VERTICAL
BIT	BITUMINOUS			VCT	VINYL COMPOSITION TILE
BLK(G)	BLOCKING	KO	KNOCKOUT	VB	VINYL BASE
BD	BOARD	LAM	LAMINATE(D)	VT	VINYL TILE
BS	BOTH SIDES	LAV	LAVATORY	VWC	VINYL WALL COVERING
BTM	BOTTOM	LH	LEFT HAND	WSCT	WAINSCOT
BRK	BREAK	LT	LIGHT	WH	WALL HUNG
BRZ	BRONZE	LWC	LIGHTWEIGHT CONCRETE	WC	WATER CLOSET
BUDG	BUILDING	LWL	LOUVER	WP	WATERPROOFING
BU	BUILT UP	LVR	LOUVER	WS	WATERSTOP
BBD	BULLETIN BOARD	L	LENGTH	WID	WIDED WIRE FABRIC
		LP	LIGHT POLE	WIDW	WINDOW
CAB	CABINET			W/O	WITHOUT
CPT	CARPET(ED)	MH	MANHOLE	WO	WOOD
CAST IRON	CAST IRON	MANUF	MANUFACTURE(ER)	WIDW	WIDTH
CST	CATCH BASIN	MATL	MATERIAL	W/	WITH
CAP	CEILING ACCESS PANEL	MB	METAL BUILDING COMPANY		
CHT	CEILING HEIGHT	MBL	MARBLE		
CEM	CEMENT	MAS	MASONRY		
CER(T)	CERAMIC(TILE)	MO	MASONRY OPENING		
CHBD	CHALKBOARD	MAX	MAXIMUM		
CP	CORRUGATED IRON PIPE	MECH	MECHANICAL		
CIR	CIRCLE	MED CAB	MEDICINE CABINET		
CMT	CERAMIC MOSAIC TILE	MBR	MEMBER		
CMP	CORRUGATED METAL PIPE	MTL	METAL		
CO	CLEANOUT	MOD BIT	MODIFIED BITUMEN		
CLR	CLEAR(ANCE)	MP	METAL PANEL(S)		
COL	COLUMN	MIN	MINIMUM		
COMP	COMPOSITION	MISC	MISCELLANEOUS		
CONC	CONCRETE	M.B.	MOISTURE BARRIER		
CMU	CONCRETE MASONRY UNIT	MOV	MOVABLE		
CONST	CONSTRUCTION	MTD	MOUNTED		
CONT	CONTINUOUS OR CONTINUE	MULL	MULLION		
CONTR	CONTRACTOR	MEP	MECHANICAL/ELECTRICAL/PLUMBING		
CJ	CONTROL JOINT				
CG	CORNER GUARD	NAT	NATURAL		
CTR	COUNTER	NOM	NOMINAL		
CS	COUNTERSINK	NT	NOT IN CONTRACT		
CT	CURTAIN TRACK	NTS	NOT TO SCALE		
DP	DAMP/PROOFING	OBS	OBSOLETE		
DTL	DETAIL	OC	ON CENTER(S)		
DIAG	DIAGONAL	OPNG	OPENING		
DIAM	DIAMETER	OJ	OPENING JOIST		
DIM	DIMENSION	OD	OUTSIDE DIAMETER		
DISP	DISPENSER	OHE	OVERHEAD ELECTRIC		
DIV	DIVISION				
DR	DOOR	PNT	PAINTED		
DH	DOUBLE HUNG	PNL	PANEL		
DN	DOWN	PTD	PAPER TOWEL DISPENSER		
DS	DOWNSPOUT	PTR	PAPER TOWEL RECEPTOR		
DT	DRAPERY TRACK	PRTN	PARTITION		
DWR	DRAWER	PVMT	PAVEMENT		
DWG	DRAWING	PERF	PERFORATED		
DF	DRINKING FOUNTAIN	PLAS	PLASTER		
DEPTH	DEPTH	PLAM	PLASTIC LAMINATE		
EA	EACH	PLVWD	POLYVINYL CHLORIDE		
EW	EACH WAY	PVC	POLYVINYL CHLORIDE		
ELEC	ELECTRICAL	PSF	POUNDS PER SQUARE FOOT		
EP	ELECTRICAL PANELBOARD	PSI	POUNDS PER SQUARE INCH		
EWC	ELECTRICAL WATER COOLER	PREFAB	PREFABRICATE(D)		
ELEV	ELEVATION	PREFIN	PREFINISHED		
EMER	EMERGENCY	PL	PROPERTY LINE		
EQ	EQUAL	PP	POWER POLE		
EQUIP	EQUIPMENT	QT	QUARRY TILE		
EXIST.	EXISTING	RAD	RADIUS		
EB	EXPANSION BOLT	REF	REFERENCE		
EJ	EXPANSION JOINT	REFR	REFRIGERATOR		
EXP	EXPOSED	REG	REGISTER		
EXT	EXTERIOR	REINF	REINFORCE(D), (ING)		
		RCP	REINFORCED CONCRETE PIPE		
FAMAB	FLUID APPLIED MEMBRANE AIR BARRIER	REQD	REQUIRED		
FIN	FINISHED	RETUR AIR	RETURN AIR		
FFE	FINISHED FLOOR ELEVATION	REV	REVISION(S), REVISED		
FA	FIRE ALARM	RH	RIGHT HAND		
FDC	FIRE DEPARTMENT CONNECTION	ROW	RIGHT OF WAY		
FE	FIRE EXTINGUISHER	R	RISER		
FEC	FIRE EXTINGUISHER CABINET	RD	ROOF DRAIN		
FHS	FIRE HOSE STATION	RFG	ROOFING		
FP	FIREPROOF(ING)	RM	ROOM		
FRAP	FIRE RATED ACCESS PANEL	RO	ROUGH OPENING		
FLASH	FLASHING	RB	RUBBER BASE		
FLR(ING)	FLOOR(ING)	RBT	RUBBER TILE		
FCO	FLOOR CLEANOUT				
FD	FLOOR DRAIN	SCH	SCHEDULE		
FLUOR	FLUORESCENT	SCHED	SCHEDULE		
FTG	FOOTING	SECT	SECTION		
FND	FOUNDATION	SSK	SERVICE SINK		
FRA	FRESH AIR	SHTG	SHEATHING		
FRP	FIBERGLASS REINFORCED POLYESTER	SHT	SHEET		
		SHWR	SHOWER		
GA	GAUGE	SIM	SIMILAR		
GALV	GALVANIZED	SC	SOLID CORE		
GC	GENERAL CONTRACTOR	SPEC	SPECIFICATION(S)		
GLASS	GLASS	SO	SQUARE		
GCMU	GLAZED CONCRETE MASONRY UNITS	SV	STACK VENT		
GST	GLAZED STRUCTURAL TILE	SS	STAINLESS STEEL		
GB	GLASS BAR	STD	STANDARD		
GYP	GYPSPUM	STA	STATION		
GFR	GYPSPUM FIBER REINFORCED	STL	STEEL		
GWB	GYPSPUM WALL BOARD	STOR	STORAGE		
		SD	STORM DRAIN		
		STR	STRUCTURAL		
		STRUCT	STRUCTURAL		
		SUSP	SUSPENDED		
		SYM	SYMMETRY(ICAL)		
		SYN	SYNTHETIC		

GENERAL NOTES

- NOTICE: DRAWINGS ARE NOT SET UP SPECIFICALLY ACCORDING TO TRADE AND EACH CONTRACTOR AND SUB-CONTRACTOR OR TRADE IS REQUIRED TO REVIEW THE DRAWINGS AS A WHOLE AND PROVIDE ANY MISC. ITEMS, MATERIALS, WORK, ETC. REQUIRED TO COMPLETE THE WORK AS SHOWN ON ALL THE DOCUMENTS. THIS REQUIREMENT APPLIES TO ALL TRADES: STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING REQUIREMENTS AND RELATED WORK ARE INDICATED THROUGHOUT THE SET OF DRAWINGS AND SHOULD BE REVIEWED WITH THE SPECIFIC MEP AND STRUCTURAL DRAWINGS FOR OVERALL SCOPE OF WORK.
- ALL WORK SHALL CONFORM TO ALL APPLICABLE CODES AND ORDINANCES. THE MORE STRINGENT TO GOVERN, DISCREPANCIES BETWEEN CONTRACT DOCUMENTS AND CODES SHALL BE BROUGHT TO THE ARCHITECTS' ATTENTION PROMPTLY AND RESOLUTION OBTAINED BEFORE PROCEEDING.
- THE GENERAL CONTRACTOR IS OBLIGATED TO INSPECT FOR EXISTING CONDITIONS & AVAILABLE INFORMATION PRIOR TO SUBMITTING A BID. REFER TO SPECIFICATIONS ALSO.
- EXISTING CONDITIONS BASED UPON INFORMATION PROVIDED BY OTHERS. NOTIFY ARCHITECT IF EXISTING CONDITIONS DEVIATE SUBSTANTIALLY FROM THOSE INDICATED HEREIN. FIELD VERIFY EXISTING CONDITIONS BY DETAILED INSPECTION PRIOR TO BEGINNING CONSTRUCTION.
- EXISTING UNDERGROUND INSTALLATIONS SUCH AS WATER MAINS/LINES, GAS MAINS/LINES, SEWER, TELEPHONE LINES, POWER LINES, AND BURIED STRUCTURES IN THE VICINITY OF THE WORK TO BE DONE HERE UNDER ARE INDICATED ON THE DRAWINGS ONLY TO THE EXTENT SUCH INFORMATION HAS BEEN MADE AVAILABLE TO OR DISCOVERED BY THE ENGINEER/ARCHITECT IN PREPARING THE DRAWINGS. THERE IS NO GUARANTEE AS TO THE ACCURACY OR COMPLETENESS OF SUCH INFORMATION, AND ALL RESPONSIBILITY FOR THE ACCURACY AND COMPLETENESS THEREOF IS EXPRESSLY DISCLAIMED. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR LOCATING ALL EXISTING UNDERGROUND INSTALLATIONS, INCLUDING SERVICE CONNECTIONS, IN ADVANCE OF EXCAVATING OR TRENCHING. BY CONTACTING THE OWNERS THEREOF AND PROSPECTING, THE CONTRACTOR SHALL USE HIS OWN INFORMATION AND NOT RELY UPON ANY INFORMATION SHOWN ON THE DRAWINGS CONCERNING EXISTING UNDERGROUND INSTALLATIONS. ANY DELAY, ADDITIONAL WORK, OR EXTRA COST TO THE CONTRACTOR CAUSED BY OR RESULTING FROM DAMAGE TO EXISTING UNDERGROUND INSTALLATIONS SHALL NOT CONSTITUTE A CLAIM FOR EXTRA WORK, ADDITIONAL PAYMENT OR DAMAGES.
- DRAWINGS ARE NOT TO BE SCALED. DIMENSIONAL DATA SHALL BE OBTAINED FROM WRITTEN INFORMATION ONLY. VERIFY ALL DIMENSIONS BEFORE PROCEEDING. ANY DIMENSIONAL DEVIATION FROM THAT SHOWN ON THE DRAWINGS, WHICH MAY AFFECT INTENT OF DESIGN OR PROPER INCORPORATION OF ELEMENTS, SHALL BE BROUGHT TO THE ARCHITECTS' ATTENTION PROMPTLY AND RESOLUTION OBTAINED BEFORE PROCEEDING.
- SHOULD A DISCREPANCY BETWEEN CONTRACT DOCUMENTS AND SPECIFICATIONS OCCUR, CONTRACTOR SHOULD IMMEDIATELY NOTIFY ARCHITECT FOR RESOLUTION BEFORE PROCEEDING WITH WORK.
- ALL DIMENSIONS INDICATED IN CONTRACT DOCUMENTS ARE FROM FACE OF STUD TO FACE OF STUD FOR INTERIOR PARTITIONS, FACE OF EXISTING STRUCTURE OR FINISH, FACE OF CONCRETE OR BLOCK, OR TO STRUCTURAL LINE, EXCEPT AS NOTED OTHERWISE. EXTERIOR DIMENSIONS ARE TO FACE OF BRICK OR FACE OF EIFS. DIMENSIONS OF EXISTING STRUCTURE, ETC. ARE **AS SHOWN** AND SHOULD BE FIELD VERIFIED PRIOR TO COMMENCEMENT OF WORK AND ARCHITECT NOTIFIED OF ANY DISCREPANCIES.
- GENERAL CONTRACTOR SHALL COORDINATE ALL MECHANICAL, ELECTRICAL & PLUMBING WORK AND PROVIDE ALL NECESSARY CONSTRUCTION TO FACILITATE SAID WORK INCLUDING, BUT NOT LIMITED TO ROUGH OPENINGS, EQUIPMENT SUPPORTS, BACKING AND COORDINATION OF FINISH WORK, WHETHER OR NOT SPECIFICALLY INDICATED ON CONTRACT DOCUMENTS.
- SPECIAL HAZARDOUS MATERIALS NOTE: AN ENVIRONMENTAL INSPECTION HAS NOT BEEN PERFORMED ON THIS PROJECT. IF CONTRACTOR ENCOUNTERS SUSPECTED HAZARDOUS MATERIALS, WORK IN IMMEDIATE AREA TO BE SUSPENDED AND CONTRACTOR TO NOTIFY OWNER FOR MATERIALS TESTING.
- ALL CONTRACTORS SHALL USE NON-COMBUSTIBLE BUILDING MATERIALS FOR SUBSTRATES WHERE POSSIBLE. WOOD SHOULD ONLY BE USED WHEN METAL IS NOT FEASIBLE OR PRACTICAL.
- WHERE ITEMS/ASSEMBLIES ARE INDICATED TO BE REMOVED AND RELOCATED, THE REMOVAL INCLUDES ALL SURFACE MOUNTED BRACKETS, ANCHORAGE DEVICES AND SURFACE BLOCKING.
- FOR WALLS THAT ARE TO BE INFILLED, PATCHED, OR A NEW WALL THAT IS AN EXTENSION OF AN EXISTING WALL, RESTORE FINISH SURFACES TO BE FLUSH WITH EXISTING SURFACES AND MATCH AND BLEND WITH THE EXISTING SURROUNDING SURFACES. IF THE PAINTING DOES NOT BLEND WITH THE SURROUNDING SURFACES THEN THE CONTRACTOR IS TO PAINT ENTIRE WALL FROM INSIDE CORNER TO INSIDE CORNER.
- GENERAL CONTRACTOR SHALL COORDINATE AND PROVIDE NECESSARY TEMPORARY ENCLOSURE AND DUST CONTROL MEASURES TO MAINTAIN A CLEAN AND SECURE WORK ENVIRONMENT AND AREAS ADJACENT TO CONSTRUCTION ZONES. PROVIDE NECESSARY WEATHER PROTECTION DURING DEMOLITION AND CONSTRUCTION WORK.
- PROVIDE TEMPORARY SHORING OR BRACING OF EXISTING STRUCTURAL SYSTEMS AS REQUIRED FOR INSTALLATION OF NEW CONSTRUCTION.
- ANY SURFACES THAT BECOME EXPOSED DUE TO REMOVING OF EQUIPMENT, CEILING, OR WALLS ARE TO BE REFINISHED AND PAINTED TO MATCH AND BLEND WITH SURROUNDING SURFACES.
- PROVIDE SOLID BLOCKING AS REQUIRED TO INSTALL EQUIPMENT, MILLWORK, ETC.
- SEE SHEET G200 FOR RATED WALLS, JOINTS AND PENETRATIONS AT ALL RATED WALLS SHALL BE SEALED AND PROTECTED PER SPECIFICATIONS, U.L. TESTED ASSEMBLIES AND CODE REQUIREMENTS.
- METAL STUDS: SEE STRUCTURAL FOR DESIGN CRITERIA AND NOTES FOR GAUGE AND SPACING.
- SEE MEP SHEETS FOR LOCATIONS OF DUCTWORK AND OTHER MEP ITEMS PENETRATING EXISTING WALLS. SEE STRUCTURAL SHEETS FOR THE STRUCTURAL REQUIREMENTS AT NEW WALL PENETRATIONS. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL PENETRATIONS AND COORDINATING THE WALL PENETRATIONS BETWEEN THE DIFFERENT TRADES.

MATERIALS GRAPHICS

EARTH

CRUSHED ROCK OR DRAINAGE FILL

CONCRETE

MASONRY BLOCK

FACE BRICK

STONE, SIMULATED STONE

FINISH WOOD

PLYWOOD

CONTINUOUS WOOD BLOCKING OR ROUGH CARPENTRY

NONCONTINUOUS WOOD BLOCKING

STEEL/OTHER METALS

GYPSPUM BOARD

ACOUSTICAL TILE

BATT INSULATION

SPRAY FOAM INSULATION

RIGID INSULATION

SAPP
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helix.

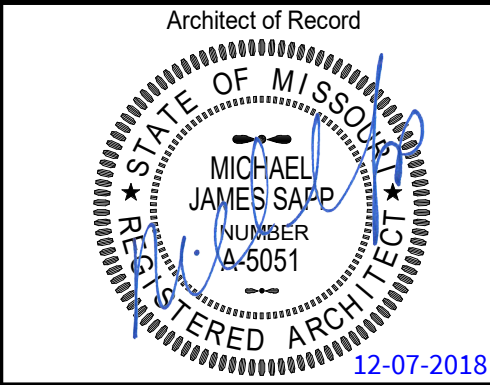
1629 Walnut
Kansas City, MO 64108 816.300.0300

SPECIAL NOTICES

In the event the client consents to, allows, authorizes or approves of changes to any plans, specifications or other construction documents, and these changes are not approved in writing by the design professional, the client agrees to release the design professional from any liability arising from the construction, use or result of such changes. In addition, the client agrees to the fullest extent permitted by law, to indemnify and hold the design professional harmless from any damage, liability or cost (including reasonable attorney's fees and costs of defense) arising from such changes.

The personal seal of the registered Architect or Engineer shall be the legal equivalent of his signature whenever & whenever used, and the owner of the seal shall authorize this seal for use on the specification sections pertaining to this sheet. Responsibility shall be disclaimed for all other plans, specifications, reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural project.

MID-CONTINENT PUBLIC LIBRARY
NEW BRANCH LIBRARY
EAST LEE'S SUMMIT
2240 SE BLUE PARKWAY
LEE'S SUMMIT, MISSOURI 64063
JACKSON COUNTY



Revision No.	Description	Date
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Project No.	Date	Drawn
WP04	12-07-2018	Author

Drawing No.

G100
SYMBOLS &
ABBREVIATIONS

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GENERAL NOTES

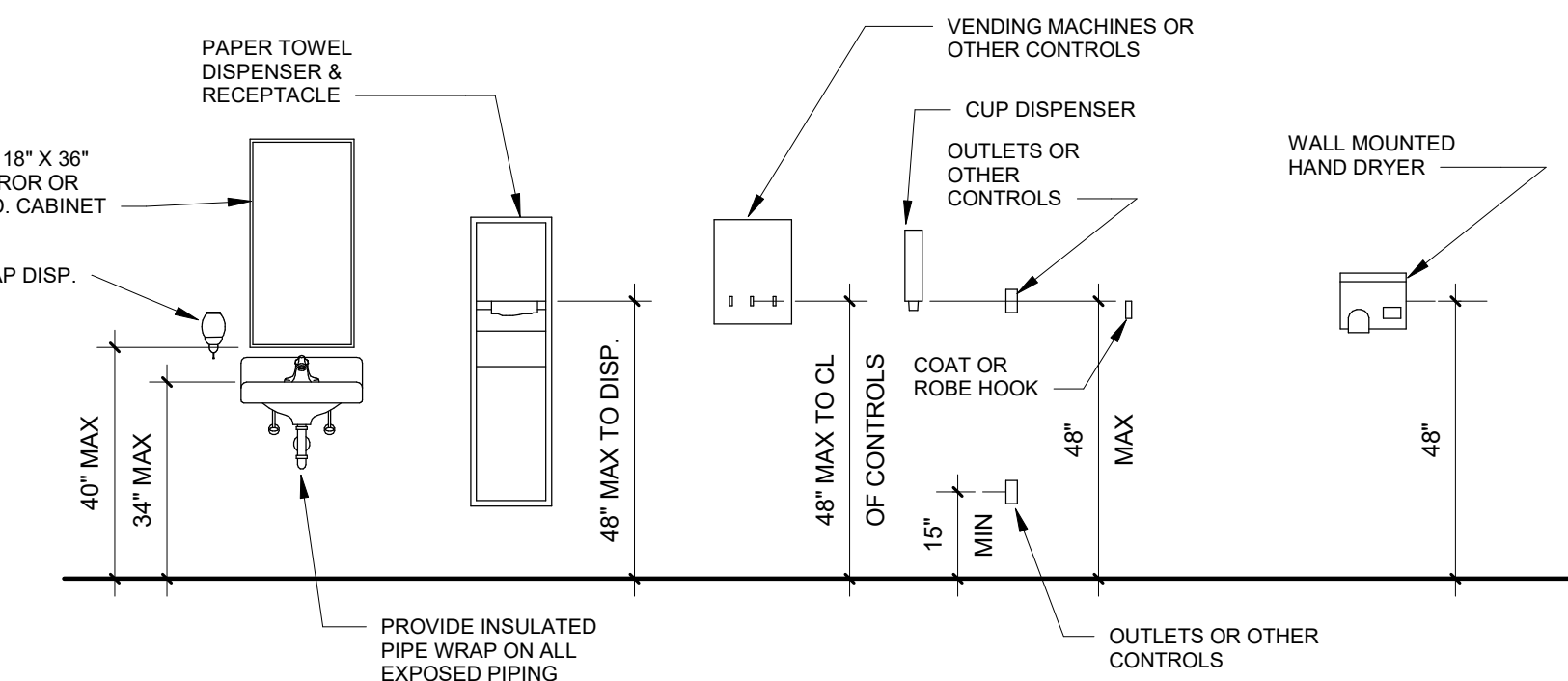
- 1. THESE FIXTURE AND ACCESSORY MOUNTING DETAILS & REQUIREMENTS ARE TYPICAL AND APPLY TO REQUIRED ACCESSIBLE INSTALLATIONS ONLY. REFER TO PLANS FOR LOCATIONS AND TYPES OF LAYOUTS. EQUIPMENT & DETAILS SHOWN THIS SHEET MAY OR MAY NOT APPEAR ON THIS PROJECT. IF A ROOM IS IN QUESTION AS TO BEING A REQUIRED ACCESSIBLE ROOM OR A REQUIRED DETAIL THIS PROJECT, CONTACT ARCHITECT FOR RESOLUTION.
- 2. PROVIDE IN ALL LOCATIONS OF REQUIRED ACCESSORIES, ADEQUATE SOLID BLOCKING CAPABLE OF WITHSTANDING 250 LBS. FORCE (SHEAR & BENDING). GRAB BARS SHALL NOT ROTATE. FASTENERS SHALL BE OF A TYPE TO WITHSTAND REQUIRED FORCE AND TYPED FOR TYPE OF WALL CONSTRUCTION.
- 3. ALL EXTERIOR RAMPS SHALL HAVE A NON-SKID FINISH AS SPECIFIED. ALL INTERIOR RAMPS SHALL HAVE FLOOR MATERIAL OF NON-SKID MATERIAL. (SEE SPECIFICATIONS). IF NO FINISH IS INDICATED ON DRAWINGS, PROVIDE RUBBER RADIAL TILE ON FINISH FLOOR SURFACE OF INTERIOR RAMPS.
- 4. ANY METAL FLOOR GRATINGS OR DRAINAGE GRATINGS IN AN ACCESSIBLE PATH SHALL HAVE SPACES NO GREATER THAN 1/2" WIDE IN ONE DIRECTION. LONG DIMENSION SHALL BE PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL.
- 5. ACCESSIBLE DOORS: SWEEP PERIOD OF DOOR CLOSERS ON ACCESSIBLE DOORS SHALL BE ADJUSTED SO THAT FROM OPEN POSITION OF 70°, DOOR WILL TAKE A MINIMUM OF 3 SECONDS TO MOVE TO A POINT 3" FROM THE LATCH. DOORS SHALL REQUIRE NO MORE THAN 5 LBS. OF FORCE TO OPEN. ADJUST CLOSERS ACCORDINGLY.
- 6. SEE DOOR SCHEDULE FOR MINIMUM REQUIRED CLEAR AREA AT LATCH SIDE OF DOOR.
- 7. THRESHOLDS AT DOORWAYS SHALL NOT EXCEED 1/2" IN HEIGHT WITH MAX. 1:2 SLOPE EACH SIDE AND 1/4" MAX VERTICAL LIP AT EDGE.

MISC. ACCESSIBLE MOUNTING HEIGHTS

FIRE EXTINGUISHERS:	48" MAX TO CENTERLINE OF CONTROLS
VISUAL DISPLAY BOARDS:	VERIFY WITH OWNER
WALL MOUNTED TELEPHONES:	48" MAX TO TOP OF KEYPAD
CLOSET/SHELF ROD:	60" TO TOP OF NON-ACCESSIBLE SHELF 48" TO TOP OF ACCESSIBLE SHELF
KNOX BOX:	5'-0" MAX, INSTALL PER FIRE DEPARTMENT REQUIREMENTS. COORDINATE LOCATION AND HEIGHT WITH FIRE DEPARTMENT.

CHILDREN'S ADA REQUIREMENTS (ADULT SHOWN BELOW)

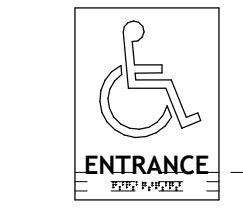
Accessible Elements Reach Ranges for control height/operable parts shall be 20" to 36" for ages 3 & 4; 16" to 40" for ages 5 to 8; and 16" to 44" for ages 9 to 12.



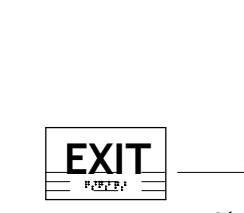
DIRECTIONAL SIGNAGE REQUIRED AT NON-ACCESSIBLE EXITS, INTERIOR AND EXTERIOR, INDICATING ROUTE TO NEAREST ACCESSIBLE ELEMENT



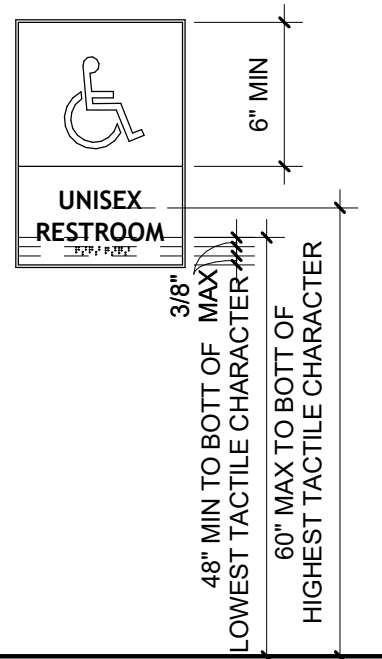
ENTRANCE SIGNAGE REQUIRED AT ACCESSIBLE EXTERIOR ENTRANCES



EXIT SIGNAGE REQUIRED ADJACENT TO ACCESSIBLE EXIT PASSAGEWAY AND DISCHARGE



NO LETTERS OR BRAILLE CHARACTERS SHALL BE LOCATED IN PICTOGRAM FIELD



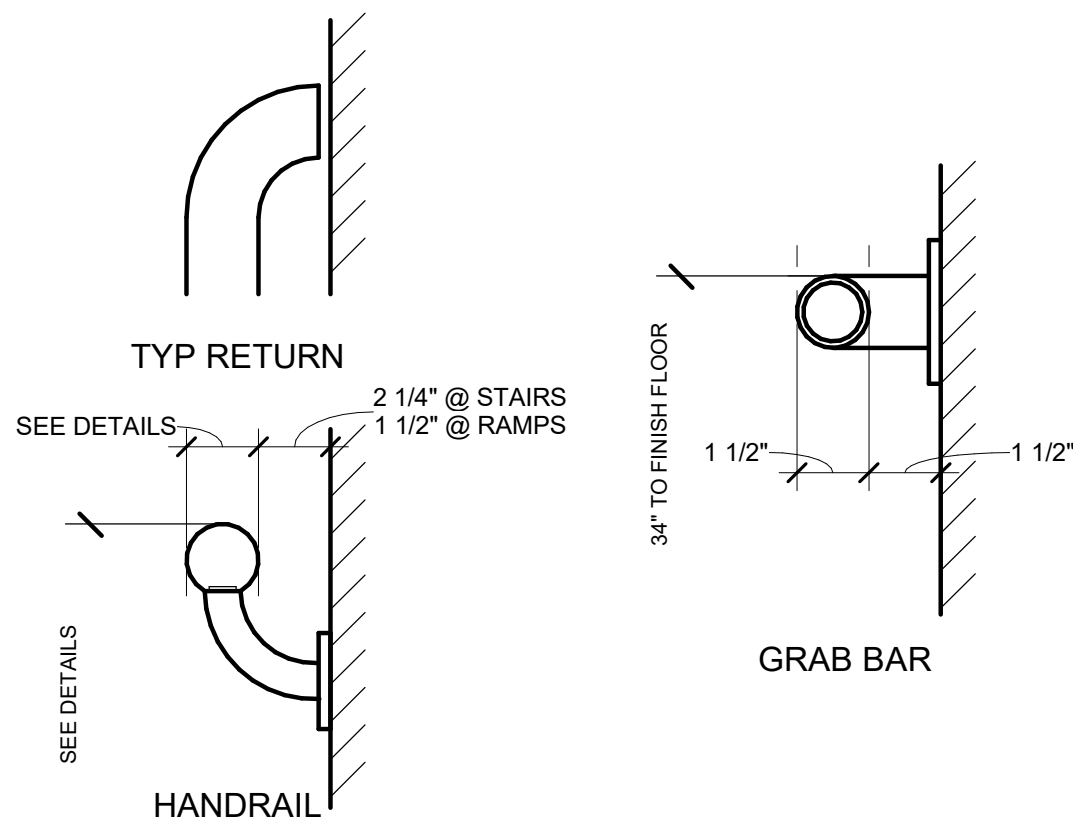
SIGNAGE LOCATION REQUIREMENTS

- WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE
- WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF.
- WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR.
- WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL.
- SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18 INCHES MINIMUM BY 18 INCHES MINIMUM, CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION.
- EXCEPTION: SIGNS WITH TACTILE CHARACTERS SHALL BE PERMITTED ON THE PUSH SIDE OF DOORS WITH CLOSERS AND WITHOUT HOLD-OPEN DEVICES.

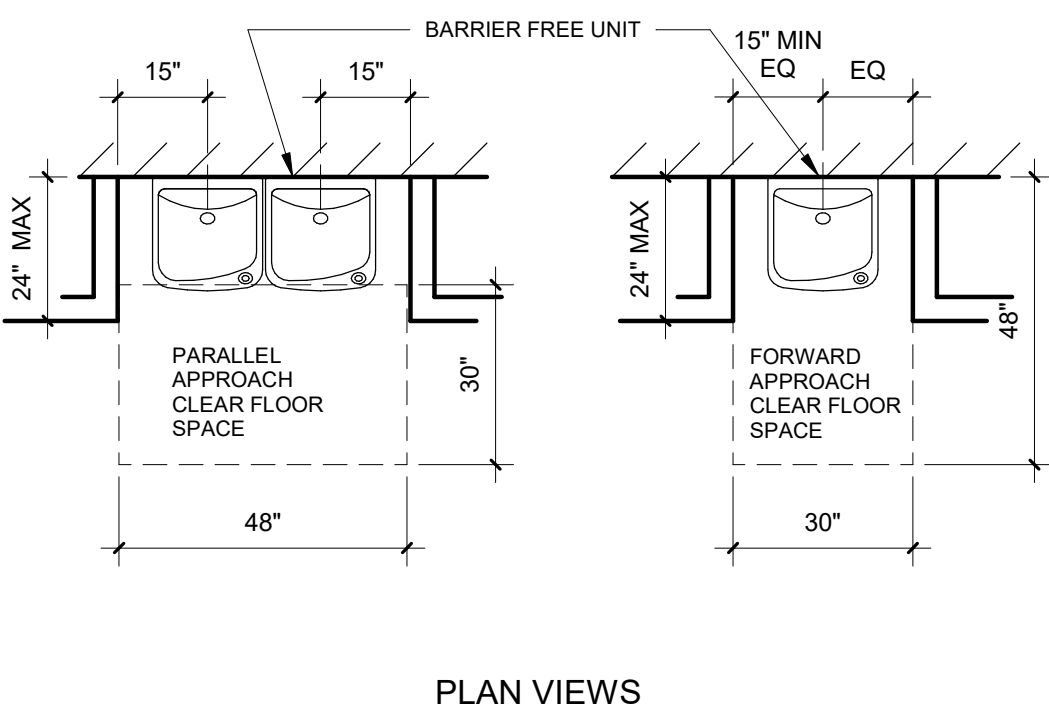
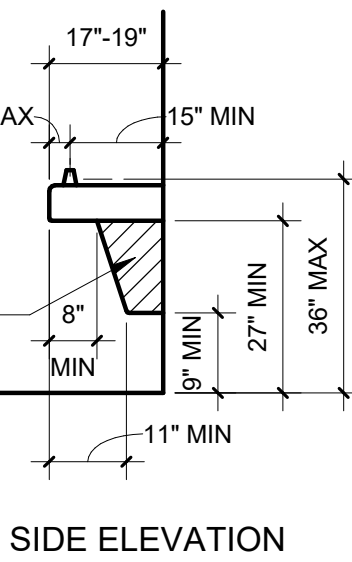
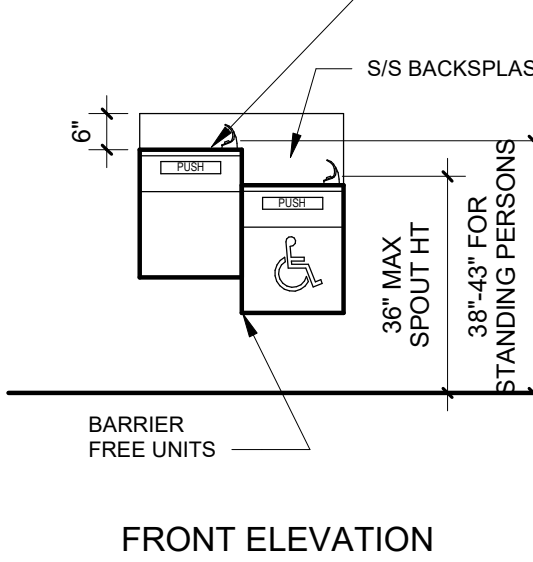
9 MISC. ACCESSIBLE ACCESSORIES

3/8" = 1'-0"

- SPOUT HT. INDICATED BELOW IS FOR ADULTS AND IS TYPICAL UNLESS NOTED OTHERWISE.
- SPOUT HT. FOR CHILDREN'S USE SHALL BE 30" MAX WITH A PARALLEL APPROACH ONLY AND SPOUT IS 3 1/2" FROM FRONT EDGE OF UNIT.

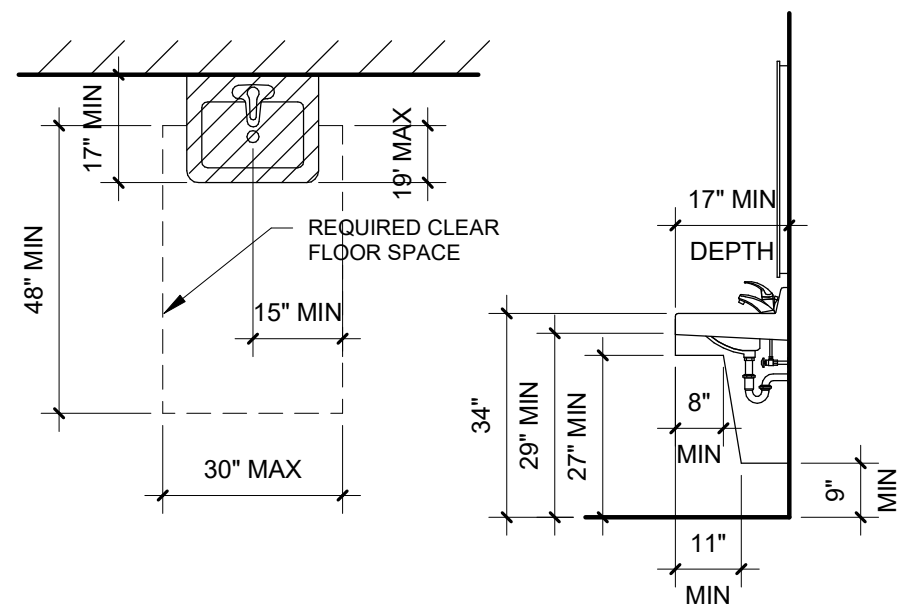


DOUBLE HEIGHT DRINKING FOUNTAIN - UNLESS SPECIFIED OTHERWISE, IF SINGLE UNIT IS SPECIFIED, SPOUT HT. SHALL BE 36" A.F.F.



CHILDREN'S ADA REQUIREMENTS (ADULT SHOWN BELOW)

- 1. Lavatory rim, counter height shall be 31" MAX for ages 6-12.
- 2. Knee clearance below sink shall be 24" MIN where counter height is 31" MAX for ages 6-12.



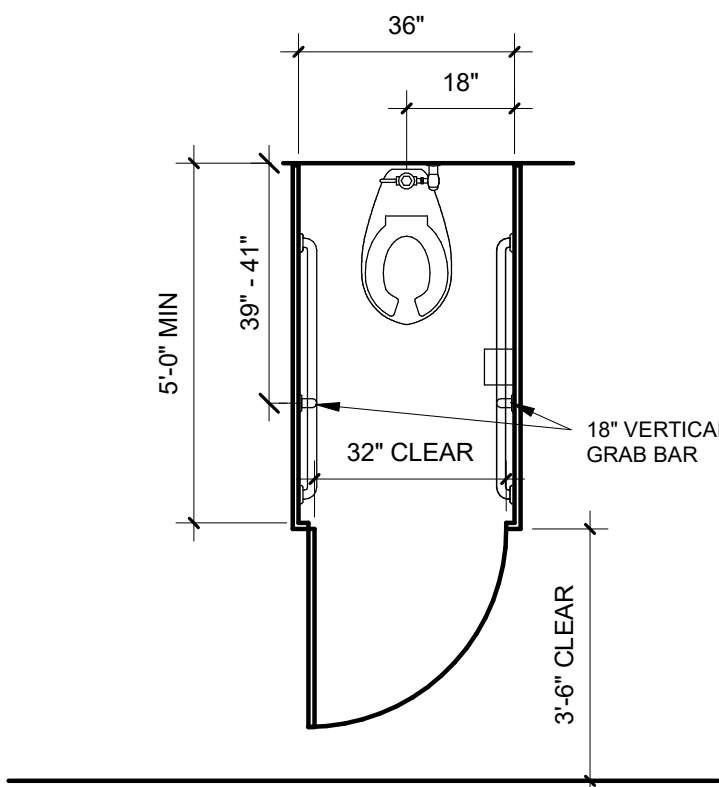
NOTE: COUNTERTOP MOUNTED LAVATORIES ARE TO BE MOUNTED WITH SAME CLEARANCES, REQUIREMENTS, ETC.

8 INTERIOR SIGNAGE DETAIL

1 1/2" = 1'-0"

6 ACCESSIBLE DRINKING FOUNTAIN

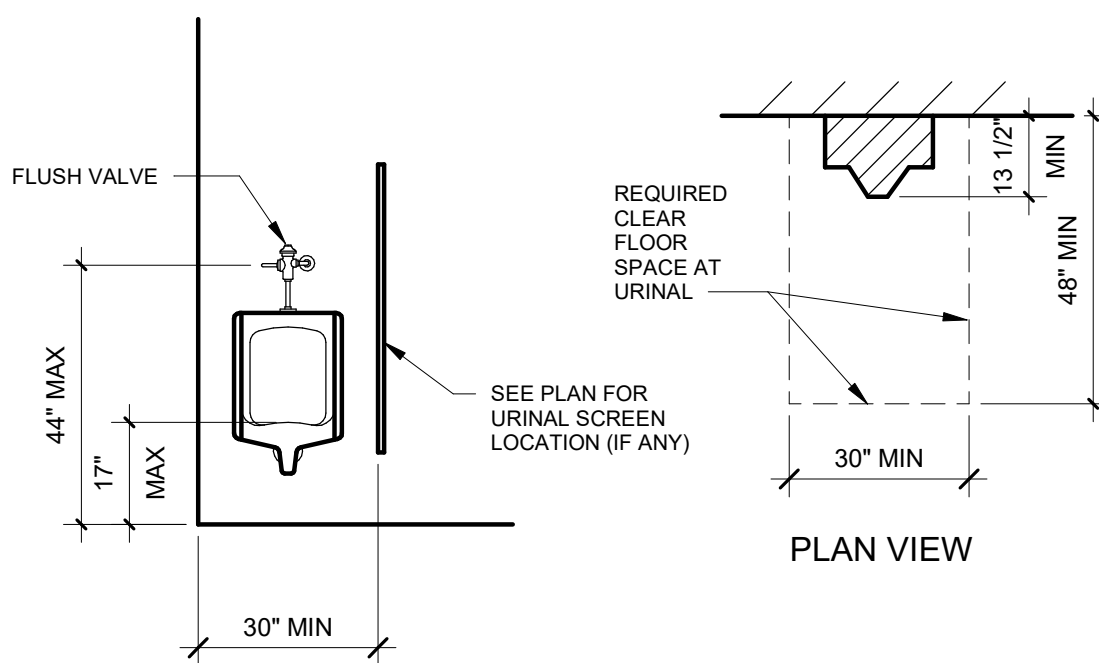
3/8" = 1'-0"



5 ACCESSIBLE LAVATORY

3/8" = 1'-0"

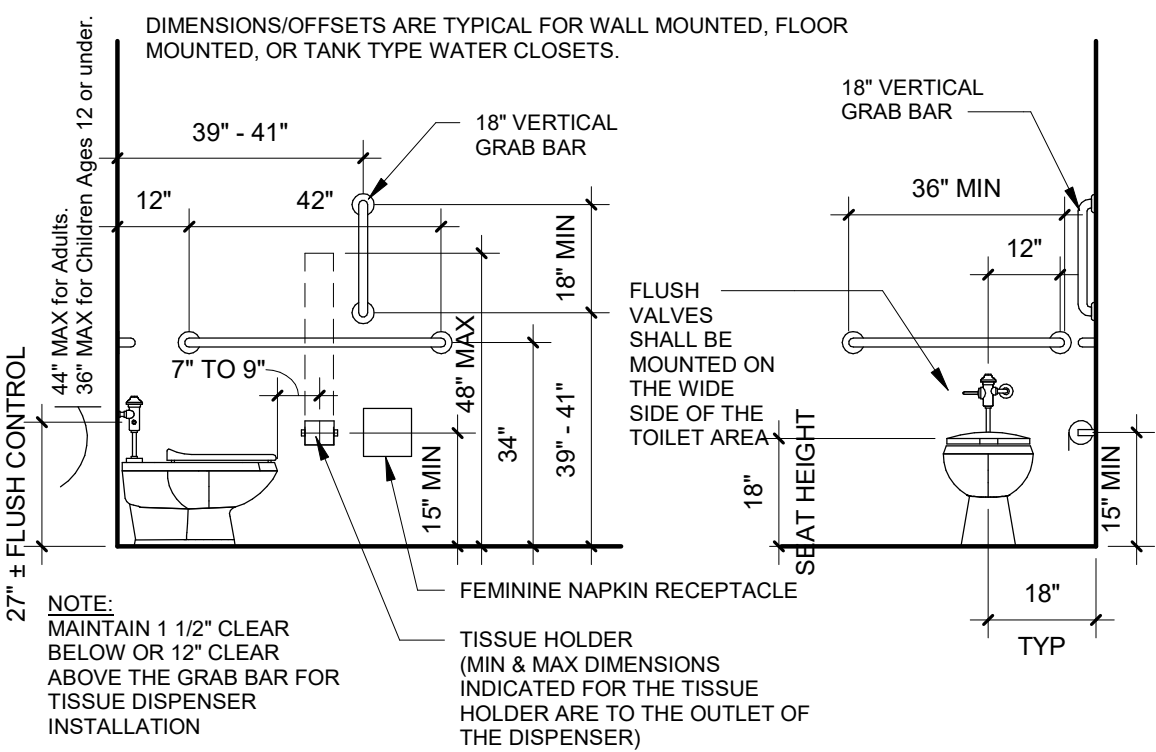
NOTE: FLUSH CONTROL HT. shall be 36" MAX for ages 3 and 4; 40" MAX for ages 5 to 8; and 44" for ages 9 to Adult.



NOTE: A MIN OF ONE URINAL PER EACH MEN'S ACCESSIBLE RESTROOM SHALL BE MOUNTED AT 17" HEIGHT IF MORE THAN ONE URINAL IS PROVIDED.

4 ACCESSIBLE WATER CLOSETS

3/8" = 1'-0"

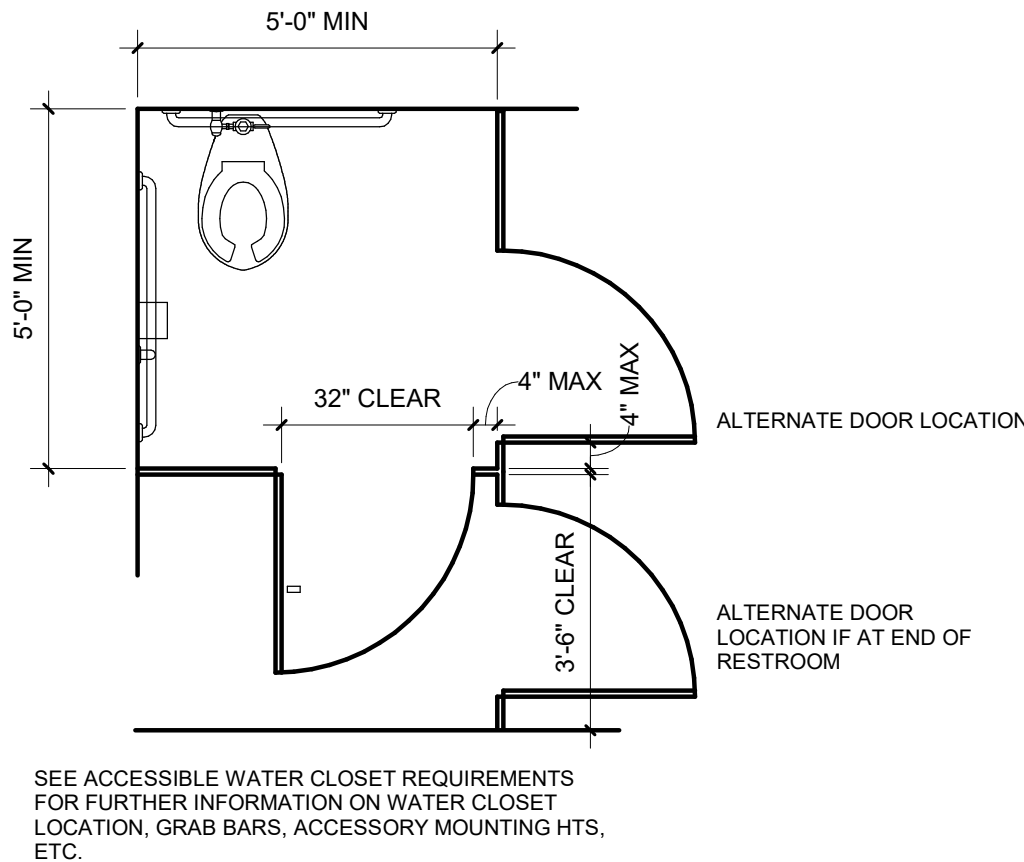


3 AMBULATORY COMPARTMENT

3/8" = 1'-0"

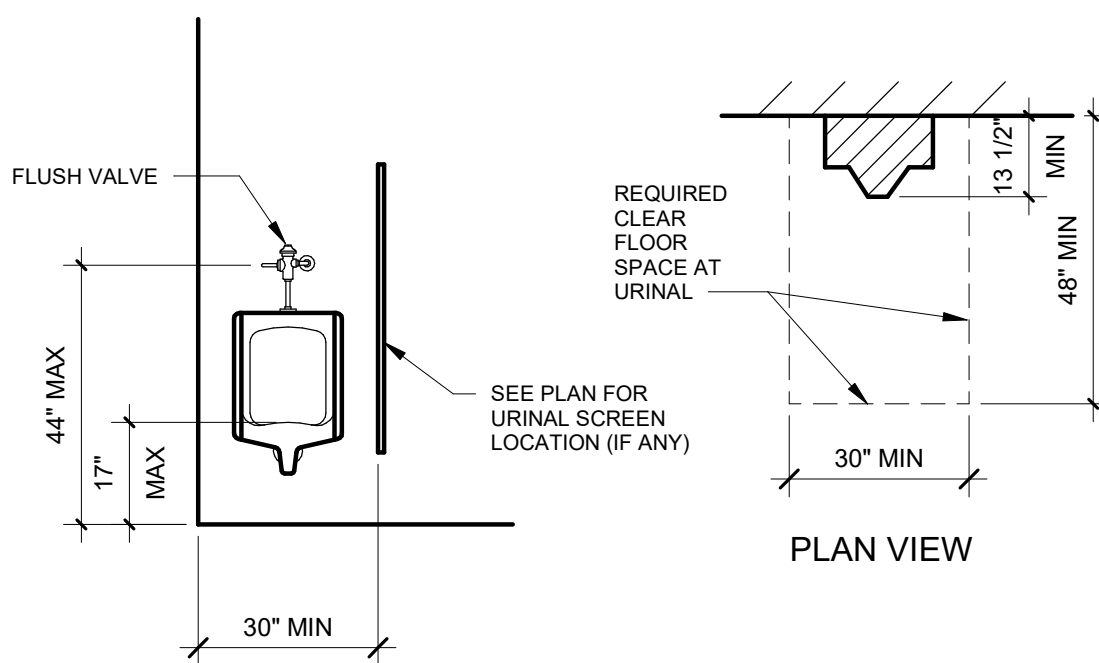
2 ACCESSIBLE COMPARTMENT

3/8" = 1'-0"



1 ACCESSIBLE URINAL

3/8" = 1'-0"



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Kansas City, MO 64108 816.300.0300

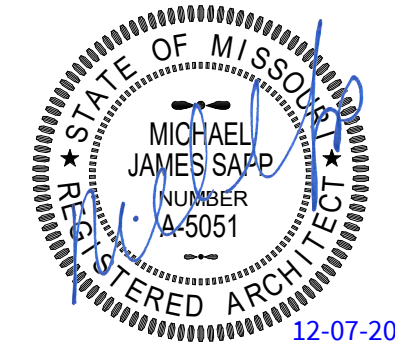
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LEE'S SUMMIT, MISSOURI 64063
JACKSON COUNTY

Architect of Record



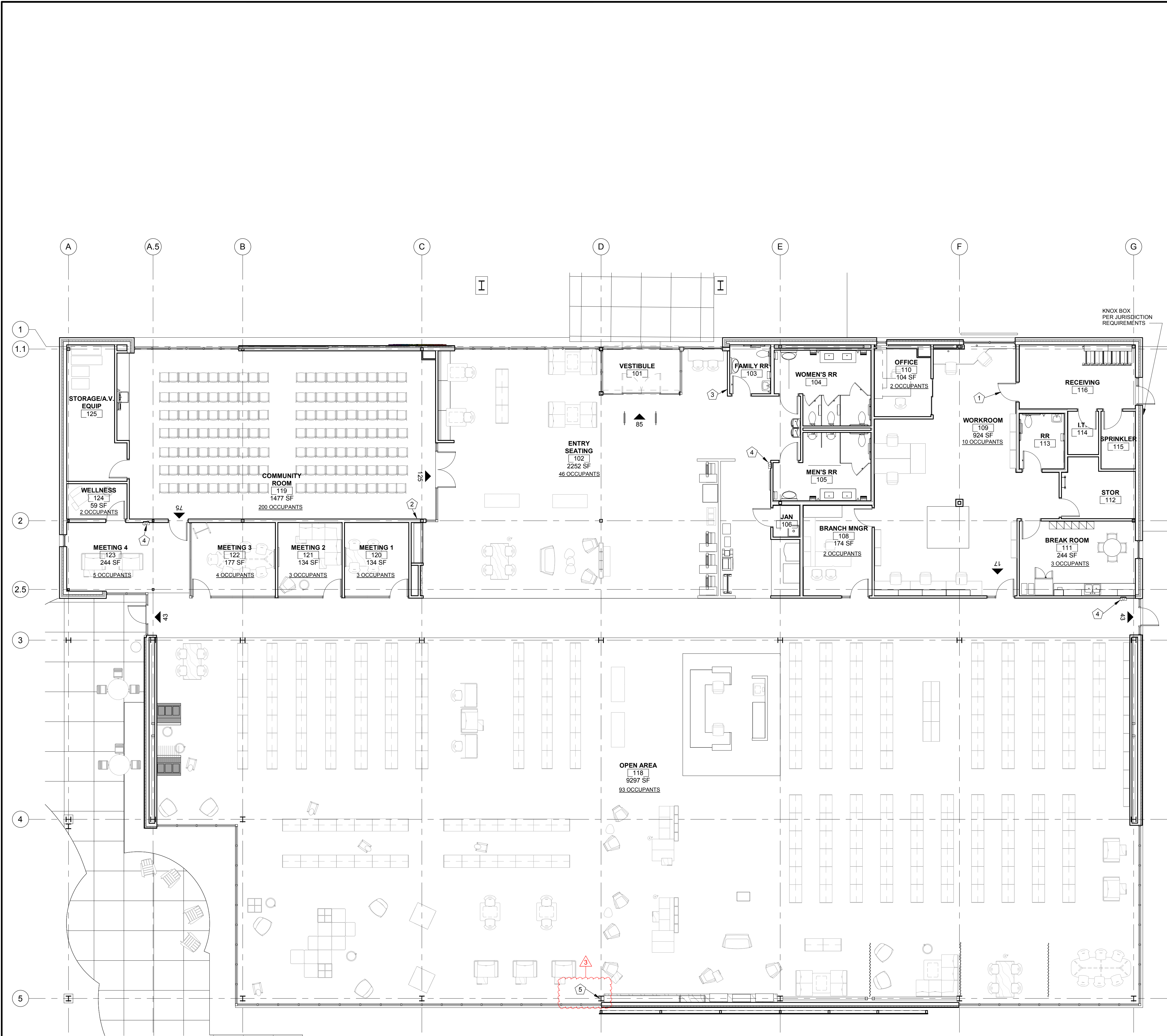
Revision No. Description Date

Project No. WP04 Date 12-07-2018 Drawn by Author

Drawing No.

G101
STANDARD ACCESSIBILITY
DETAILS

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1 OVERALL CODE PLAN
1/8" = 1'-0"

KEYNOTES		
1	THIS DOOR IS NOT A MEANS OF EGRESS	
2	PROVIDE SIGN READING "MAXIMUM OCCUPANCY 200"	
3	PROVIDE SIGN READING "MAXIMUM BUILDING OCCUPANT LOAD OF 371"	
4	FIRE EXTINGUISHER, TYPE 3A:40B:C, IN SEMI-RECESSED CABINET	
5	FIRE EXTINGUISHER, TYPE 3A:40B:C, IN SURFACE-MOUNTED CABINET	

CODE SUMMARY		
PROJECT IDENTIFICATION: NEW EAST LEE'S SUMMIT BRANCH MID-CONTINENT PUBLIC LIBRARY LEE'S SUMMIT, MISSOURI REPRESENTATIVE - JAKE WIMMER		
CODE:	2012 INTERNATIONAL BUILDING CODE 2012 INTERNATIONAL MECHANICAL CODE 2012 UNIFORM PLUMBING CODE 2011 NATIONAL ELECTRIC CODE 2012 INTERNATIONAL FIRE CODE	
OCCUPANCY:	A-3 - ASSEMBLY	
PROPOSED USE:	LIBRARY	
CONSTRUCTION TYPE:	TYPE 2B - SINGLE STORY	
BUILDING HEIGHT:	ALLOWABLE: 5 ST , 2-STORY ACTUAL: 2 ND , 1-STORY	
ALLOWABLE AREA: (TABLE 503 & SECTION 506)	ALLOWABLE AREA = 9,500 SF SPRINKLER INCREASE (300%) = 28,500 SF TOTAL ALLOWABLE = 38,000 SF	
GROSS BUILDING AREA:	LIBRARY: 18,531 SF	
AUTOMATIC SPRINKLER SYSTEM:	BUILDING IS TO BE SPRINKLED	
STORAGE ROOM:	FIRE SPRINKLER SYSTEM OR (1) HR FIRE BARRIER REQUIRED FOR ROOMS OVER 100SF (FIRE SPRINKLER SYSTEM PROVIDED)	
FIRE ALARM & DETECTION SYSTEMS:	REQUIRED PER SECTION 907	
MAX. TRAVEL DISTANCE FOR EXITS ALLOWED:	250 LF, PER 2012 IBC (TABLE 1016.2)	
EXIT SEPARATION - MINIMUM SEPARATION IS 1/3 OF THE MAXIMUM DIAGONAL OF THE AREA OF FLOOR MEASURED BETWEEN EXITS PER SECTION 1015.2.1		
DESIGN OCCUPANT LOAD (IBC 2012, SECT 1004):	TABLE 1004.1.2	
BUILDING OCCUPANCY:	OCCUPANT LOAD OF PROGRAM ROOM = 200 (POSTED MAX OCC. SIGNS) TOTAL OCCUPANT LOAD OF COLLAB ROOMS (1 PER 50 S.F. NET) = 15 OCCUPANTS OCCUPANT LOAD OF STACK AREA (1 PER 100 S.F. GROSS) = 93 OCCUPANTS OCCUPANT LOAD OF ADMIN AREA (1 PER 100 S.F. GROSS) = 17 OCCUPANTS OCCUPANT LOAD OF SEATING AREA (1 PER 50 S.F. GROSS) = 46 OCCUPANTS	
	TOTAL OCCUPANT LOAD OF LIBRARY = 371 OCCUPANTS	
	TOTAL OCCUPANT LOAD OF LIBRARY - PUBLIC = 354 OCCUPANTS	
	TOTAL OCCUPANT LOAD OF LIBRARY - STAFF = 17 OCCUPANTS	
PLUMBING FIXTURES:	WATER CLOSETS: REQUIRED 5, PROVIDED 5 WC & 2 URINAL LAVATORIES: REQUIRED 4, PROVIDED 4 DRINKING FOUNTAINS: REQUIRED 1, PROVIDED 2 SERVICE SINK: REQUIRED 1, PROVIDED 1	

SAPP DESIGN ARCHITECTS

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Kansas City, MO 64108 816.300.0300

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LEE'S SUMMIT, MISSOURI 64063
JACKSON COUNTY

Architect of Record

Michael James Sapp, Architect MO A-5051

2-13-2019

Michael James Sapp, Architect MO A-5051

Revision No.	Description	Date
3	ASI003	02-13-2019

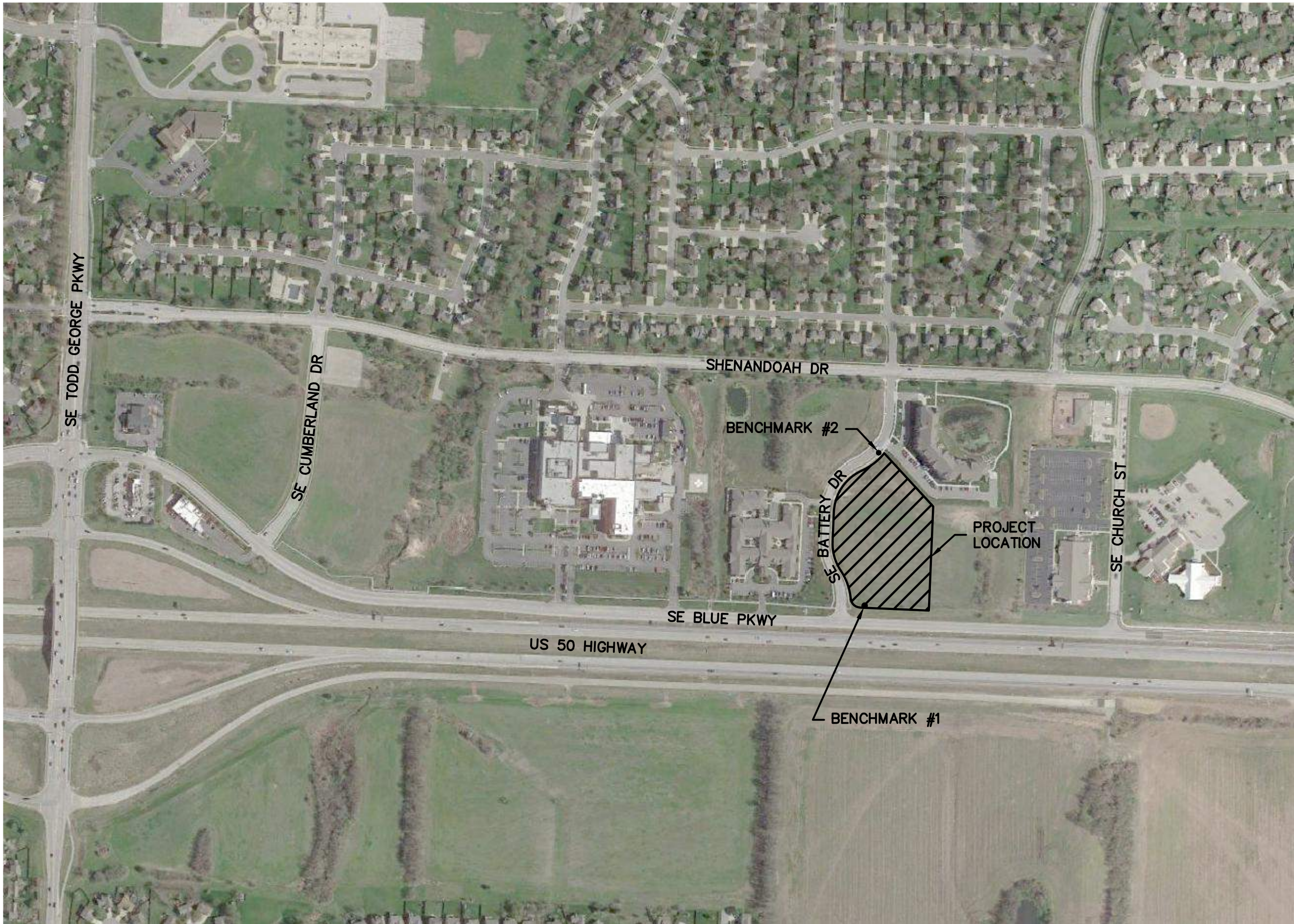
Project No.	Date	Drawn
WP04	12-07-2018	Author

Drawing No. **G200**
OVERALL CODE SUMMARY

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CONSTRUCTION DOCUMENTS FOR
MID-CONTINENT PUBLIC LIBRARY
EAST LEE'S SUMMIT BRANCH
NE CORNER, SE BATTERY DRIVE AND SE BLUE PARKWAY
NE 1/4 OF SECTION 10, TOWNSHIP 47 NORTH, RANGE 31 WEST
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

Sheet List Table	
Sheet Numb er	Sheet Title
C1.0	COVER SHEET
C1.1	GENERAL NOTES
C1.2	SURVEY SHEET
C2.0	DEMOLITION PLAN
C3.0	GENERAL LAYOUT PLAN
C4.0	SITE DIMENSION PLAN
C4.1	SITE DIMENSION PLAN
C5.0	GRADING PLAN
C5.1	GRADING DETAILS
C5.2	GRADING DETAILS
C5.3	GRADING DETAILS
C5.4	GRADING DETAILS
C5.5	GRADING DETAILS
C6.0	UTILITY PLAN
C7.0	STORM SEWER PLAN & PROFILE
C7.1	STORM SEWER PLAN & PROFILE
C8.0	DRAINAGE PLAN
C9.0	EROSION CONTROL PLAN – PRE CONSTRUCTION
C9.1	EROSION CONTROL – CONSTRUCTION
C9.2	EROSION CONTROL – POST CONSTRUCTION
C10.0	STANDARD DETAILS
C10.1	STANDARD DETAILS
C10.2	STANDARD DETAILS
C10.3	STANDARD DETAILS
C10.4	STANDARD DETAILS
C10.5	STANDARD DETAILS
C10.6	STANDARD DETAILS
L1.0	LANDSCAPE PLAN



NOT TO SCALE

BENCHMARKS:

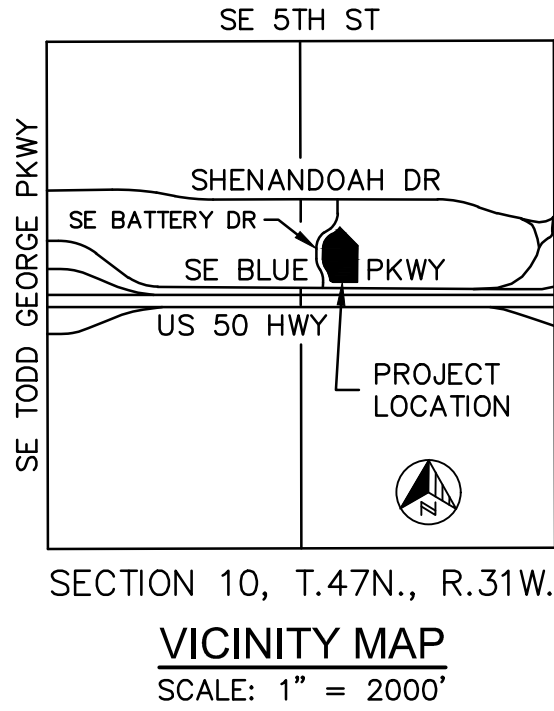
BENCHMARK #1:
ELEVATION=1027.22'
SET RAILROAD SPIKE IN THE NORTH SIDE OF A POWER POLE, 66'± NORTH OF THE C OF SE BLUE PARKWAY, 86' EAST OF THE C OF SE BATTERY DRIVE.

BENCHMARK #2:
ELEVATION=1009.31'
SET CHISELED "I" CUT ON THE SOUTHWESTERLY CORNER OF A CONCRETE CURB INLET #40636, 630'± NORTH OF THE C OF SE BLUE PARKWAY, 15' EAST OF THE C OF SE BATTERY DRIVE.

LEGAL DESCRIPTION:

LOT 2A, MAGNOLIA PLACE AT CHARLESTON PARK, SECOND PLAT, LOTS 2A–3, A SUBDIVISION IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI, EXCEPT THE EAST 81.81 FEET THEREOF, CONTAINING 165,561 SQUARE FEET OR 3.8008 ACRES, MORE OR LESS .

DEVELOPMENT TEAM CONTACT INFORMATION	
OWNER/DEVELOPER	
STEVEN V. POTTER MID–CONTINENT PUBLIC LIBRARY	ADMINISTRATIVE HEADQUARTERS 15616 E. 24 HWY. INDEPENDENCE, MO 64050 816.836.5200
CIVIL ENGINEER	
TERRY PARSONS OLSSON ASSOCIATES	7301 W. 133RD STREET SUITE 200 OVERLAND PARK, KS 66213 PH: 913.381.1170 FAX: 913.381.1174 tparsons@olssonassociates.com



**SAPP
DESIGN
ARCHITECTS**

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Mid-Continent Public Library
CONSTRUCTION DOCUMENT PLANS FOR
EAST LEE'S SUMMIT BRANCH
2240 SE BLUE PARKWAY
LEE'S SUMMIT, MO 64063
JACKSON COUNTY
PACKAGE **04**



Terry M Parsons, Engineer MO PE-2018010505

olsson
7301 West 133rd Street, Suite 200
Overland Park, KS 66213
TEL 913.381.1170
FAX 913.381.1174
www.olsson.com

Olsson
Missouri State Certificate of Authority #001592

Revision No.	Description	Date
--------------	-------------	------

Project No.	Date	Drawn
B18-0330	12.07.18	RLK

Drawing No. **C1.0**
COVER SHEET

DWG: F:\2018\0001-0500\018-0330-B\40-Design\AutoCAD\Final Plans\Sheets\GNC\WORK PACKAGE 4\LEES SUMMIT\C_COV_80330.dwg USER: bkrmich DATE: Jan 14, 2019 5:27pm XREFS: C:\LS_TBLK_80330 C:\LS_XBASE_80330 C:\LS_PBASE_80330

GENERAL NOTES:

- THE EXISTING UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND MAY NOT INCLUDE ALL LINES PRESENT. THE CONTRACTOR SHALL BE RESPONSIBLE TO CALL "1-800-DIG-RITE", 1(800)344-7483 OR 811 AND COORDINATE FIELD LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING GRADING ACTIVITIES. !STOP!! CALL BEFORE YOU DIG!!
- THE CONTRACTOR SHALL NOT CHANGE OR DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE OWNER AND ENGINEER.
- ALL WORK AND MATERIALS SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE OWNER OR THE OWNER'S REPRESENTATIVE.
- ALL ESTIMATES OF QUANTITIES ARE FOR INFORMATION PURPOSES ONLY. CONTRACTOR AND SUBCONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ALL QUANTITIES AND FOR BRINGING THE PROJECT TO THE LINES AND GRADES SHOWN HEREIN. CONTRACTOR SHALL PROVIDE ALL WORK AND MATERIALS REQUIRED TO FULFILL THE PLANS IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE EARTHWORK QUANTITIES AND TO ACCOUNT FOR HAUL IN OR HAUL OFF OF MATERIAL AS NECESSARY TO MEET THE LINES AND GRADES OF THE PLANS EVEN IF QUANTITY ESTIMATES ARE SHOWN WITHIN THESE DOCUMENTS. NO ADDITIONAL PAYMENTS WILL BE MADE FOR IMPORT OR EXPORT OF MATERIAL OR FOR ADJUSTMENTS TO QUANTITY ESTIMATES.
- ALL CONSTRUCTION SHALL CONFORM TO THE LATEST STANDARDS AND SPECIFICATIONS OF THE AMERICAN PUBLIC WORKS ASSOCIATION - KANSAS CITY METROPOLITAN CHAPTER (APWA-KC) AND THE CITY OF LEE'S SUMMIT, MO, EXCEPT WHERE SHOWN OTHERWISE. NOTIFY ENGINEER OF DISCREPANCIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS, PAYING ALL FEES AND FOR OTHERWISE COMPLYING WITH ALL APPLICABLE REGULATIONS GOVERNING THE WORK.
- THE CONTRACTOR SHALL ADHERE TO THE PROVISIONS OF MISSOURI STATE LAW WHICH REQUIRES THAT ANY PERSON OR FIRM DOING EXCAVATION ON PUBLIC RIGHT-OF-WAY DO SO ONLY AFTER GIVING NOTICE TO, AND OBTAINING INFORMATION FROM UTILITY COMPANIES.
- PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL NOTIFY ALL THOSE COMPANIES WHICH HAVE FACILITIES IN THE NEAR VICINITY OF THE CONSTRUCTION TO BE PERFORMED.
- THE CONTRACTOR SHALL LIMIT THE REMOVAL OF TREES TO THE LIMITS OF DEMOLITION SHOWN ON THE DEMOLITION PLAN.
- CLEARING AND GRUBBING OPERATIONS AND DISPOSAL OF ALL DEBRIS THEREFROM SHALL BE PERFORMED BY THE CONTRACTOR IN STRICT ACCORDANCE WITH ALL LOCAL CODES AND ORDINANCES.
- ALL WASTE MATERIAL RESULTING FROM THE PROJECT SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR.
- ALL MANHOLES, CATCH BASINS, UTILITY VALVES AND METER PITS ARE TO BE ADJUSTED OR REBUILT TO GRADE AS REQUIRED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROL OF SURFACE EROSION DURING CONSTRUCTION AND UNTIL THE OWNER ACCEPTS THE WORK AS COMPLETE. EROSION CONTROL MEASURES INCLUDING, BUT NOT LIMITED TO, THE SILT FENCES AND GRAVEL FILTER BAGS SHOWN ON THE EROSION CONTROL PLAN SHALL BE IN PLACE FOR THE DURATION OF THE SITE IMPROVEMENTS.
- ALL HDPE PIPE SHALL BE ADS (N-12) OR APPROVED EQUAL, AND CONFORM TO AASHTO M294 SPECIFICATIONS. ALL PIPE LENGTHS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
- IF PRECAST CONCRETE STORM SEWER STRUCTURES ARE TO BE USED ON THIS PROJECT, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND HAVE THEM APPROVED BY THE ENGINEER PRIOR TO FABRICATION OF THE STRUCTURES. FAILURE TO DO SO SHALL BE CAUSE FOR REJECTION.
- EXISTING TOPSOIL SHALL BE STRIPPED TO A POINT WHERE ALL VEGETATION IS REMOVED. SITE PREPARATION, GRADING AND EXCAVATION PROCEDURES SHALL CONFORM TO THE SPECIFICATIONS PROVIDED.
- THE CONTRACTOR SHALL, BY HIS OWN INVESTIGATION, AND PRIOR TO COMMENCING WORK, SATISFY HIMSELF AS TO THE SURFACE AND SUBSURFACE CONDITIONS TO BE ENCOUNTERED.
- THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL BOUNDARY CORNERS AND SECTION CORNERS. ANY BOUNDARY CORNER AND/OR SECTION CORNER DISTURBED OR DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE RESET BY A LAND SURVEYOR LICENSED IN THE STATE OF MISSOURI, AT THE CONTRACTOR'S EXPENSE.
- NO FEDERALLY OWNED MAILBOX MAY BE DISTURBED. THE CONTRACTOR SHALL GIVE AT LEAST TWENTY-FOUR (24) HOURS ADVANCE NOTICE TO THE MANAGER OF DELIVERY AND COLLECTIONS. TAMPERING WITH FEDERAL MAIL FACILITIES MAY SUBJECT THE CONTRACTOR TO PROSECUTION BY THE FEDERAL GOVERNMENT.
- THE CONTOUR LINES SHOWN ARE FOR MASS GRADING PURPOSES.
- EXISTING CONTOURS REPRESENT MASS GRADING ELEVATIONS.
- THE CONTRACTOR SHALL FINISH GRADE SLOPES AS SHOWN NO STEEPER THAN 1 FOOT VERTICAL IN 3 FEET HORIZONTAL UNLESS OTHERWISE SHOWN BY CONTOURS OR SPOT ELEVATIONS.
- THE CONTRACTOR SHALL GRADE LANDSCAPED AREAS TO PROVIDE POSITIVE DRAINAGE IN THE BORROW AREA.
- THE CONTRACTOR SHALL MAKE HIS OWN ASSUMPTIONS ON THE LOCATION AND CONSISTENCY OF ANY EXISTING ROCK LAYERS UNDERLYING THE PROJECT SITE. ALL ROCK EXCAVATION AND REMOVAL SHALL BE INCLUDED IN THE CONTRACTORS' BID.
- CONTRACTOR TO FIELD VERIFY ELEVATIONS AND LOCATIONS OF EXISTING UTILITIES AND INFRASTRUCTURE PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN PLANS AND FIELD CONDITIONS.
- BY ACCEPTING AND UTILIZING ANY ELECTRONIC FILE OF ANY DRAWING, REPORT OR DATA TRANSMITTED BY OLSSON (OLSSON), THE RECIPIENT AGREES FOR ITSELF, ITS SUCCESSORS, ASSIGNS, INSURERS AND ALL THOSE CLAIMING UNDER OR THROUGH IT, THAT BY USING ANY OF THE INFORMATION CONTAINED IN THE ELECTRONIC FILE, ALL USERS AGREE TO BE BOUND BY THE FOLLOWING TERMS. ALL OF THE INFORMATION CONTAINED IN THIS ELECTRONIC FILE IS THE WORK PRODUCT AND INSTRUMENT OF SERVICE OF OLSSON, WHO SHALL BE DEEMED THE AUTHOR, AND SHALL RETAIN ALL COMMON LAW, STATUTORY LAW AND OTHER RIGHTS, INCLUDING COPYRIGHTS, UNLESS THE SAME HAVE PREVIOUSLY BEEN TRANSFERRED IN WRITING TO THE RECIPIENT. THE INFORMATION CONTAINED IN THE ELECTRONIC FILE IS PROVIDED FOR THE CONVENIENCE OF THE RECIPIENT AND IS PROVIDED IN "AS IS" CONDITION. THE RECIPIENT IS AWARE THAT DIFFERENCES MAY EXIST BETWEEN THE ELECTRONIC FILES AND THE PRINTED HARD-COPY ORIGINAL SIGNED AND SEALED DRAWINGS OR REPORTS. IN THE EVENT OF A CONFLICT BETWEEN THE SIGNED AND SEALED ORIGINAL DOCUMENTS PREPARED BY OLSSON AND THE ELECTRONIC FILES TRANSFERRED HEREWITH, THE SIGNED AND SEALED ORIGINAL DOCUMENTS SHALL GOVERN. OLSSON SPECIFICALLY DISCLAIMS ALL WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO ELECTRONIC FILES. IT SHALL BE THE RECIPIENT'S RESPONSIBILITY TO CONFIRM THE ACCURACY OF THE INFORMATION CONTAINED IN THE ELECTRONIC FILE AND THAT IF ACCURATELY REFLECTS THE INFORMATION NEEDED BY THE RECIPIENT. THE RECIPIENT SHALL NOT RETRANSMIT THE ELECTRONIC FILE, OR ANY PORTION THEREOF, WITHOUT INCLUDING THIS DISCLAIMER AS PART OF ANY SUCH TRANSMISSION. IN ADDITION, THE RECIPIENT AGREES, TO THE FULLEST EXTENT PERMITTED BY LAW, TO INDEMNIFY AND HOLD HARMLESS OLSSON, ITS OFFICERS, DIRECTORS, EMPLOYEES AND SUBCONSULTANTS AGAINST ANY AND ALL DAMAGES, LIABILITIES, CLAIMS OR COSTS, INCLUDING REASONABLE ATTORNEY'S AND EXPERT WITNESS FEES AND DEFENSE COSTS, ARISING FROM ANY CHANGES MADE BY ANYONE OTHER THAN OLSSON OR FROM ANY REUSE OF THE ELECTRONIC FILES WITHOUT THE PRIOR WRITTEN CONSENT OF OLSSON.
- DESIGN PROFESSIONAL SHALL REVIEW SHOP DRAWINGS OR SAMPLES FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPTS ON THE PROJECT AND FOR COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS, AND SHALL NOT EXTEND TO MEANS OR METHODS OF CONSTRUCTION. THE DESIGN PROFESSIONAL'S REVIEW SHALL NOT RELIEVE CONTRACTOR FROM RESPONSIBILITY FOR ANY VARIATION FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS UNLESS CONTRACTOR HAS IN WRITING CALLED DESIGN PROFESSIONAL'S ATTENTION TO EACH SUCH VARIATION AT THE TIME OF SUBMISSION, AND DESIGN PROFESSIONAL HAS GIVEN WRITTEN APPROVAL OF EACH SUCH VARIATION BY SPECIFIC WRITTEN NOTATION THEREOF INCORPORATED INTO OR ACCOMPANYING THE SHOP DRAWING OR SAMPLE; NOR WILL ANY APPROVAL BY THE DESIGN PROFESSIONAL RELIEVE CONTRACTOR FROM RESPONSIBILITY FOR ERRORS OR OMISSIONS IN SHOP DRAWINGS WITH CONFORMANCE TO CONTRACT DOCUMENTS.

- GENERAL CONSTRUCTION NOTE REGARDING SEQUENCING OF EROSION CONTROL - ALL PERIMETER SILT FENCE, EARTH DIKES, SEDIMENT BASINS, AND ROCK CONSTRUCTION ENTRANCES WILL BE INSTALLED BEFORE GRADING OPERATIONS BEGIN, EXCEPT THAT SILT FENCE WHICH IS TO BE PLACED ALONG THE BACK OF CURB FOR PROTECTION OF THE STREET. SILT FENCE AND EARTH DIKES THAT ARE PLACED BEFORE GRADING BEGINS WILL BE MAINTAINED BY THE GRADING CONTRACTOR UNTIL ALL UTILITIES ARE IN PLACE. THE SILT FENCE THAT IS PLACED ALONG THE BACK OF THE CURB OR RIGHT -OF-WAY WILL BE INSTALLED IMMEDIATELY AFTER THE CURB IS CONSTRUCTED. EROSION AND SEDIMENTATION CONTROLS ARE TEMPORARY AND MUST BE REMOVED BY THE CONTRACTOR AFTER CONSTRUCTION IS COMPLETE AND THE DISTURBED AREA IS AT LEAST 70% PERMANENTLY VEGETATED.
- HANDICAP PARKING STALLS SHALL BE SIGNED WITH CITY/ADA APPROVED SIGNAGE AND CONSTRUCTED IN STRICT ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF THE APWA-KC, CITY OF LEE'S SUMMIT ADA STANDARDS, AND SHALL NOT EXCEED 2.00 PERCENT IN ANY DIRECTION. ACCESSIBLE SIDEWALKS HAVE A MAXIMUM CROSS SLOPE OF 2 PERCENT AND A MAXIMUM LONGITUDINAL SLOPE OF 5 PERCENT.
- ALL WATER LINES SHALL BE INSTALLED PER THE LATEST STANDARDS AND SPECIFICATIONS OF THE APWA-KC AND THE CITY OF LEE'S SUMMIT, MO. ALL WATER LINES SHALL BE A MINIMUM OF 48 INCHES BELOW THE FINISHED GRADE ELEVATIONS SHOWN HEREIN.
- ALL WATER LINES SHALL BE INSTALLED PER CITY STANDARDS. ALL WATER LINES SHALL BE A MINIMUM OF 48 INCHES BELOW THE FINISHED GRADE ELEVATIONS SHOWN HEREIN.
- ALL EXTERIOR CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI, SHALL MEET KCMMB STANDARDS AND SPECIFICATIONS, AND SHALL BE AIR ENTRAINED. FLYASH IS NOT A SUITABLE REPLACEMENT FOR PORTLAND CEMENT.
- ALL ON-SITE WIRING AND CABLES SHALL BE PLACED UNDERGROUND.
- CONCRETE PAVEMENT JOINTS SHALL BE CONSTRUCTED AS FOLLOWS (REFER TO HARDSCAPE PLANS FOR SPECIFIC TREATMENT OF THESE AREAS):
 - CONTROL JOINTS SPACED AT INTERVALS NOT GREATER THAN 12 FEET AND TOOLED TO 1/3 THE SLAB THICKNESS.
 - CONSTRUCTION JOINTS AT THE END OF EACH POUR AND WHEN PAVING OPERATIONS ARE SUSPENDED FOR 30 MINUTES OR MORE.
 - ISOLATION JOINTS PLACED WHERE THE PAVEMENT ABUTS THE BUILDING, DRAINAGE STRUCTURES AND OTHER FIXED STRUCTURES, CONSTRUCTED WITH A 1/2" NONEXTRUDING FILLER, CLOSED-CELL FOLSSONM RUBBER OR A BITUMEN-TREATED FIBER-BOLSSONRD, AND WITH A THICKENED EDGE, INCREASED BY 20 PERCENT, TAPERED TO THE REGULAR THICKNESS IN 5 FEET.
 - ALL EXPANSION JOINTS SHALL BE FILLED AND SEALED WITH A PLASTIC JOINT SEALANT MATERIAL.
- TELEPHONE AND COMMUNICATION SERVICE ROUTING AND CONDUITS NOT SHOWN ON PLANS. CONTRACTOR SHALL INSTALL NECESSARY CONDUIT PRIOR TO PAVEMENT INSTALLATION. CONTRACTOR SHALL COORDINATE ROUTING AND INSTALLATION SCOPE WITH SERVICE PROVIDER.
- ANY CONTRACTOR BIDDING ANY PORTION OF THIS WORK SHALL HAVE IN HIS OR HER POSSESSION A COMPLETE SET OF CONSTRUCTION DOCUMENTS AND BE FAMILIAR WITH ALL SCOPES OF WORK AND TRADES TO UNDERSTAND THEIR INTERACTIONS.
- EXISTING TOPSOIL SHALL BE STRIPPED TO A POINT WHERE ALL VEGETATION IS REMOVED. REFER TO THE GEOTECHNICAL REPORT PROVIDED BY OLSSON DATED 01/09/2019 AND ALL ADDENDUMS.
- SITE PREPARATION, GRADING AND EXCAVATION PROCEDURES SHALL CONFORM TO THE RECOMMENDATIONS AS OUTLINED IN THE GEOTECHNICAL REPORT PREPARED BY OLSSON DATED 01/09/2019 AND ALL ADDENDUMS.

GENERAL UTILITY NOTES

- THE SIZE AND LOCATION OF SERVICES SHALL BE VERIFIED WITH THE ARCHITECTURAL AND MEP PLANS PRIOR TO CONSTRUCTION. IF DISCREPANCIES EXIST, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
- IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING SLEEVING UNDER PAVING AREAS WHERE NECESSARY.
- INSTALL ALL PIPE LENGTHS, BENDS AND FITTINGS NECESSARY FOR UTILITY CONNECTIONS.
- CONTRACTOR SHALL VERIFY ALL CROSSING ELEVATIONS AND LOCATIONS, SIZES, AND ELEVATIONS OF EXISTING UTILITIES PRIOR TO CONSTRUCTION OF STORM LINES AND ALL UTILITY SERVICE CONNECTIONS. ANY CONFLICTS SHALL BE MADE KNOWN TO THE ENGINEER AND RESOLVED PRIOR TO CONSTRUCTION.
- CONTRACTOR TO VERIFY FIRE SERVICE SIZE WITH SPRINKLER DESIGNER/CONTRACTOR PRIOR TO CONSTRUCTION AND INSTALLATION OF METER/BACKFLOW PREVENTER AND SERVICES. NOTIFY ENGINEER OF ALTERATIONS.
- CONTRACTOR RESPONSIBLE FOR PAYING ALL TAP AND CONNECTION FEES AND SHALL CONTRACT AND PAY FOR ANY REQUIRED SUB CONTRACTORS BY UTILITY COMPANIES.
- REFERENCE MEP PLANS FOR BUILDING CONNECTIONS.
- CONTRACTOR TO REPAIR ALL AREA DAMAGED BY CONSTRUCTION TO EXISTING CONDITIONS OR BETTER.
- BACK FLOW PREVENTION TO BE PROVIDED INSIDE BUILDING. SEE MEP AND ARCHITECTURAL PLANS FOR DETAILS.
- LOCATION FOR POWER SHOWN IS APPROXIMATE AND SUBJECT TO CHANGE. CONTRACTOR TO VERIFY FINAL LOCATION AND DESIGN WITH UTILITY COMPANY PRIOR TO CONSTRUCTION.
- CONTRACTOR TO COORDINATE LIGHT POLE LOCATIONS WITH OWNER, STORM SEWER INSTALLATION AND UTILITY COMPANIES PRIOR TO INSTALLATION TO AVOID CONFLICTS. NOTIFY ENGINEER AND ARCHITECT OF ANY CONFLICTS PRIOR TO INSTALLATION.
- WATER METER CANNOT BE INSTALLED IN THE BUILDING.
- CONTRACTOR SHALL COORDINATE CABLE/FIBER OPTIC CONDUIT AND SERVICE INSTALLATION WITH UTILITY COMPANY.
- ALL TAPS AND CONNECTIONS FOR FIRE AND DOMESTIC WATER SERVICES ARE TO BE IN ACCORDANCE WITH THE CITY OF BLUE SPRINGS STANDARDS AND SPECIFICATIONS.
- CONTRACTOR TO COORDINATE POWER ROUTING TO MONUMENT SIGNS NOT SHOWN ON PLANS.
- ALL ROOF DRAIN AND DOWNSPOUT HEADER PIPES SHALL BE 12" HDPE PIPE AND INSTALLED AT 1.00% MINIMUM SLOPE UNLESS OTHERWISE NOTED WITHIN THIS PLAN. ALL BENDS AND FITTINGS NEEDED TO BUILD ROUTING AS SHOWN SHALL BE INCLUDED IN BID.
- CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY FITTINGS TO COMPLETE ROOF DRAIN AND DOWNSPOUT CONNECTIONS TO BUILDINGS. ALL ROOF DRAIN AND DOWNSPOUT CONNECTIONS / FITTINGS, INCLUDING BUT NOT LIMITED TO BENDS AND TEES, SHALL BE MADE OF HDPE PIPE UNLESS OTHERWISE NOTED WITHIN THIS PLAN.



THE CONTRACTOR SHALL ADHERE TO THE PROVISIONS OF THE SENATE BILL NUMBER 583, 78TH GENERAL ASSEMBLY OF THE STATE OF MISSOURI. THE BILL REQUIRES THAT ANY PERSON OR FIRM DOING EXCAVATION ON PUBLIC RIGHT-OF-WAY DO SO ONLY AFTER GIVING NOTICE TO, & OBTAINING INFORMATION FROM, UTILITY COMPANIES. STATE LAW REQUIRES 48 HOURS ADVANCE NOTICE. CALL 1-800-DIG-RITE.

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Mid-Continent Public Library
CONSTRUCTION DOCUMENT PLANS FOR
EAST LEE'S SUMMIT BRANCH
2240 SE BLUE PARKWAY
LEE'S SUMMIT, MO 64063
JACKSON COUNTY
PACKAGE 04

Engineer of Record



Terry M Parsons, Engineer MO PE-2018010505

olsson

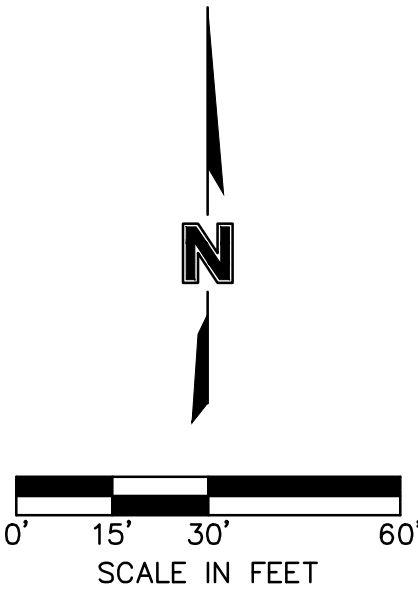
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Revision No.	Description	Date
1	ASI#1	01.14.19

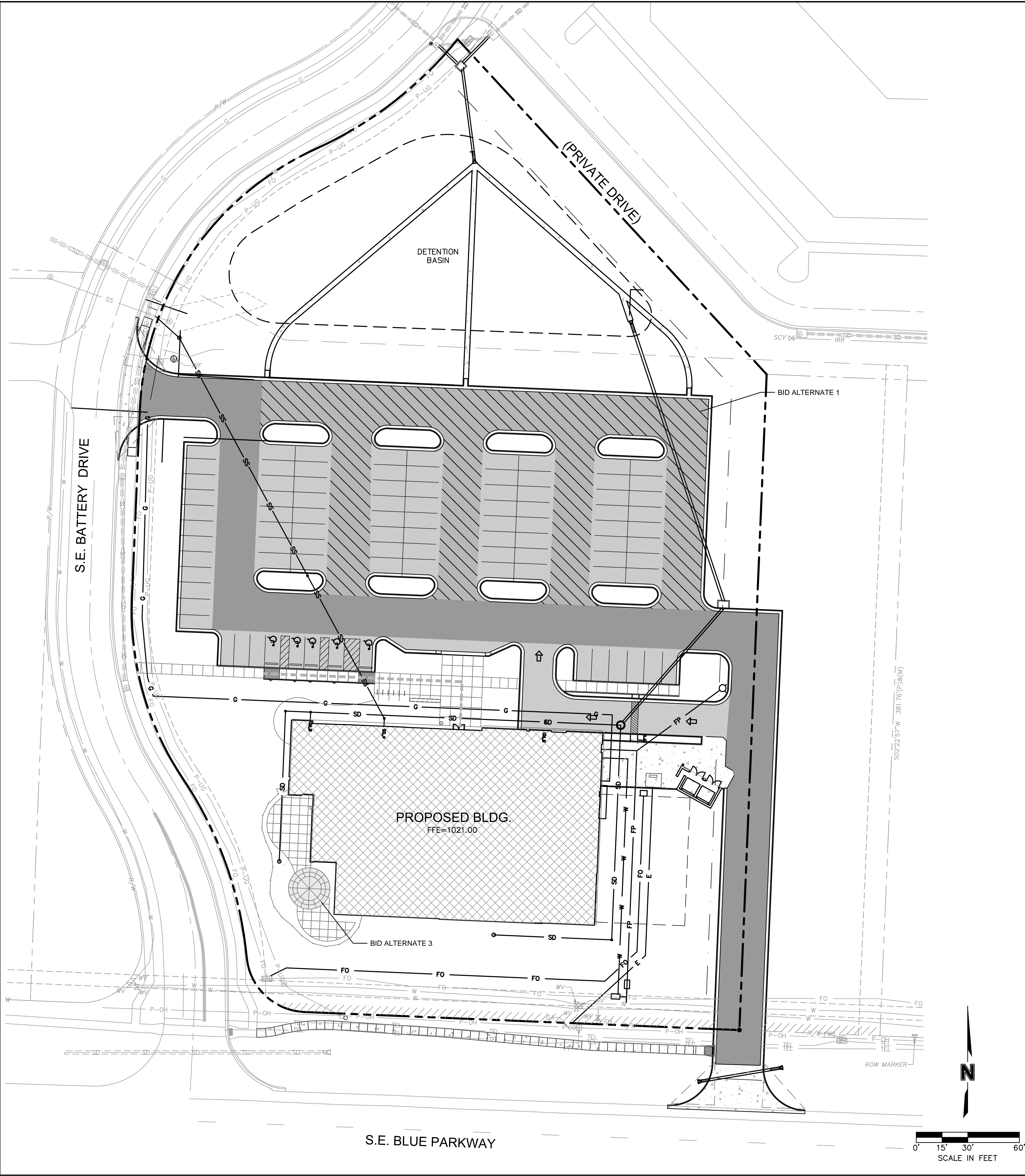
Project No.	Date	Drawn
B18-0330	12.07.18	RLK

Drawing No. C1.1
GENERAL NOTES



PROPERTY LINE

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LEGEND

--- PROPERTY LINE

CONSTRUCT CONCRETE CURB & GUTTER TYPE "B-DRY"

CONSTRUCT CONCRETE DRY CURB & GUTTER TYPE "B"

--- SAWCUT PAVEMENT FULL DEPTH

CONCRETE PAVEMENT-HEAVY DUTY

CONCRETE SIDEWALK PAVEMENT

*ASPHALT PAVEMENT - HEAVY DUTY

*ASPHALT PAVEMENT-PARKING AREAS

--- ADA ACCESSIBLE ROUTE

- *BID ALTERNATES**
- BID ALTERNATE 1 -**
THE SUBSTITUTION OF LIGHT DUTY ASPHALT PAVEMENT FOR HEAVY DUTY ASPHALT PAVEMENT IN PARKING DRIVE LANES.
- BID ALTERNATE 2 -**
THE PLACEMENT OF TENSAR TRIAX TX GEOGRID BETWEEN THE SUBGRADE AND BASE ASPHALT LAYER UNDER ALL ASPHALT SURFACING INSTALLED PER MANUFACTURES RECOMMENDATIONS.
- BID ALTERNATE 3 -**
THE SUBSTITUTION OF NON-TINTED CONCRETE FOR INTEGRALLY TINTED CONCRETE IN THE PEDESTRIAN PATIO AREA.

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LEE'S SUMMIT, MO 64063
JACKSON COUNTY

PACKAGE
04



Terry M Parsons, Engineer MO PE-2018010505

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Revision No. Description Date

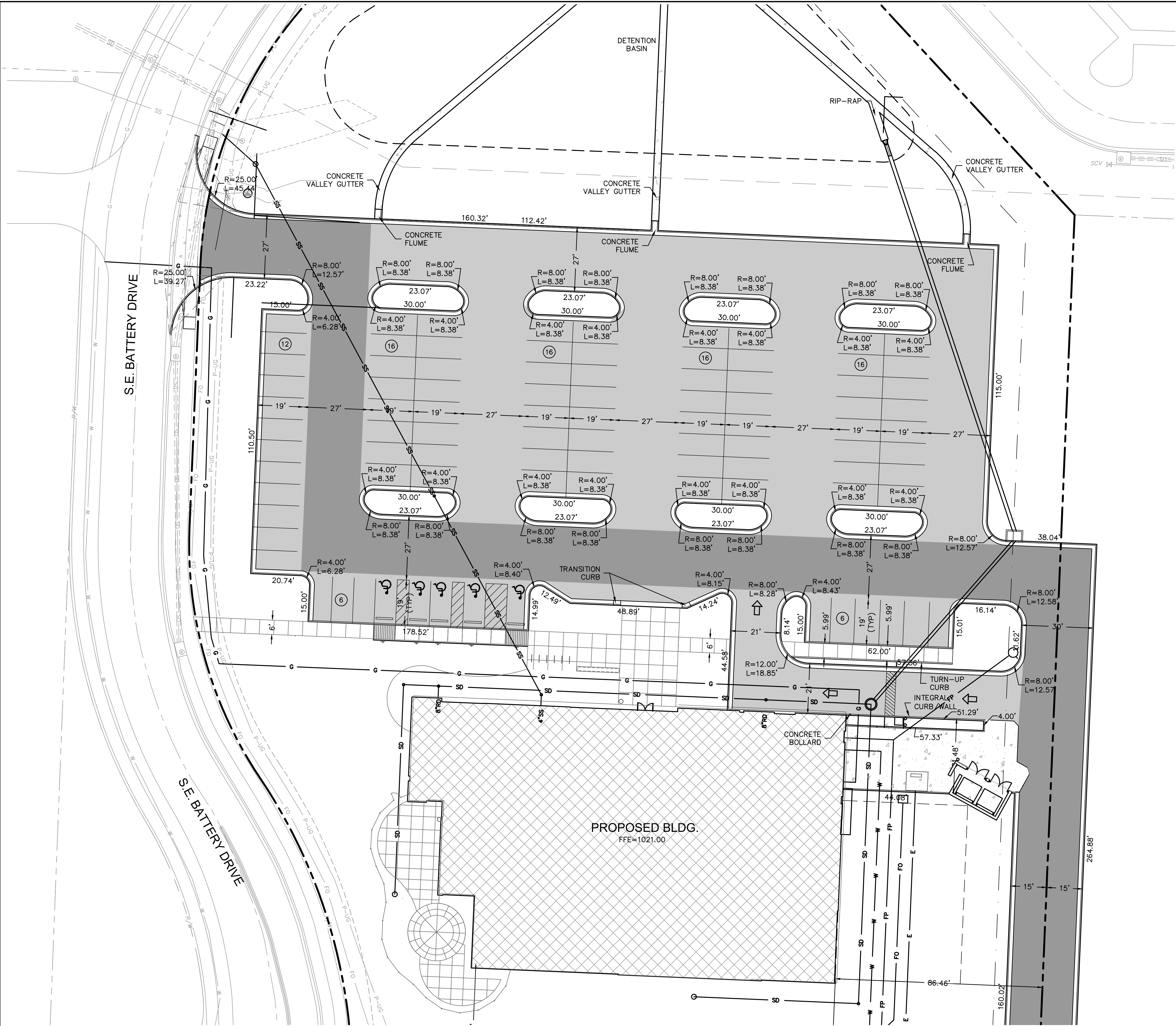
Project No. B18-0330 Date 12.07.18 Drawn RLK

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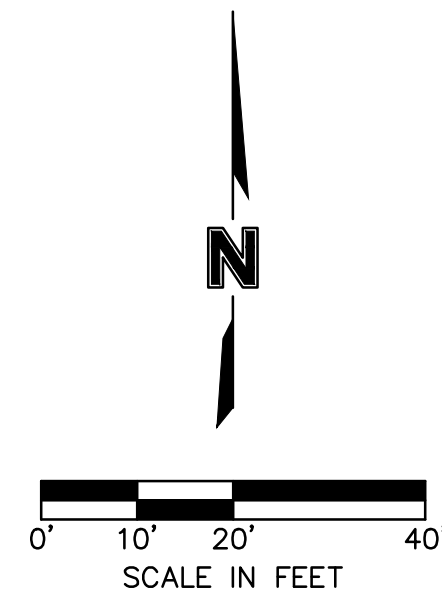
C3.0

GENERAL LAYOUT PLAN

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LEGEND	
	PROPERTY LINE
	CONSTRUCT CONCRETE CURB & GUTTER TYPE "B-DRY"
	CONSTRUCT CONCRETE DRY CURB & GUTTER TYPE "B"
	SAWCUT PAVEMENT FULL DEPTH
	CONCRETE PAVEMENT-HEAVY DUTY
	CONCRETE SIDEWALK PAVEMENT
	ASPHALT PAVEMENT - HEAVY DUTY
	ASPHALT PAVEMENT-PARKING AREAS
	PARKING STALLS
	ADA ACCESSIBLE ROUTE



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Engineer of Record



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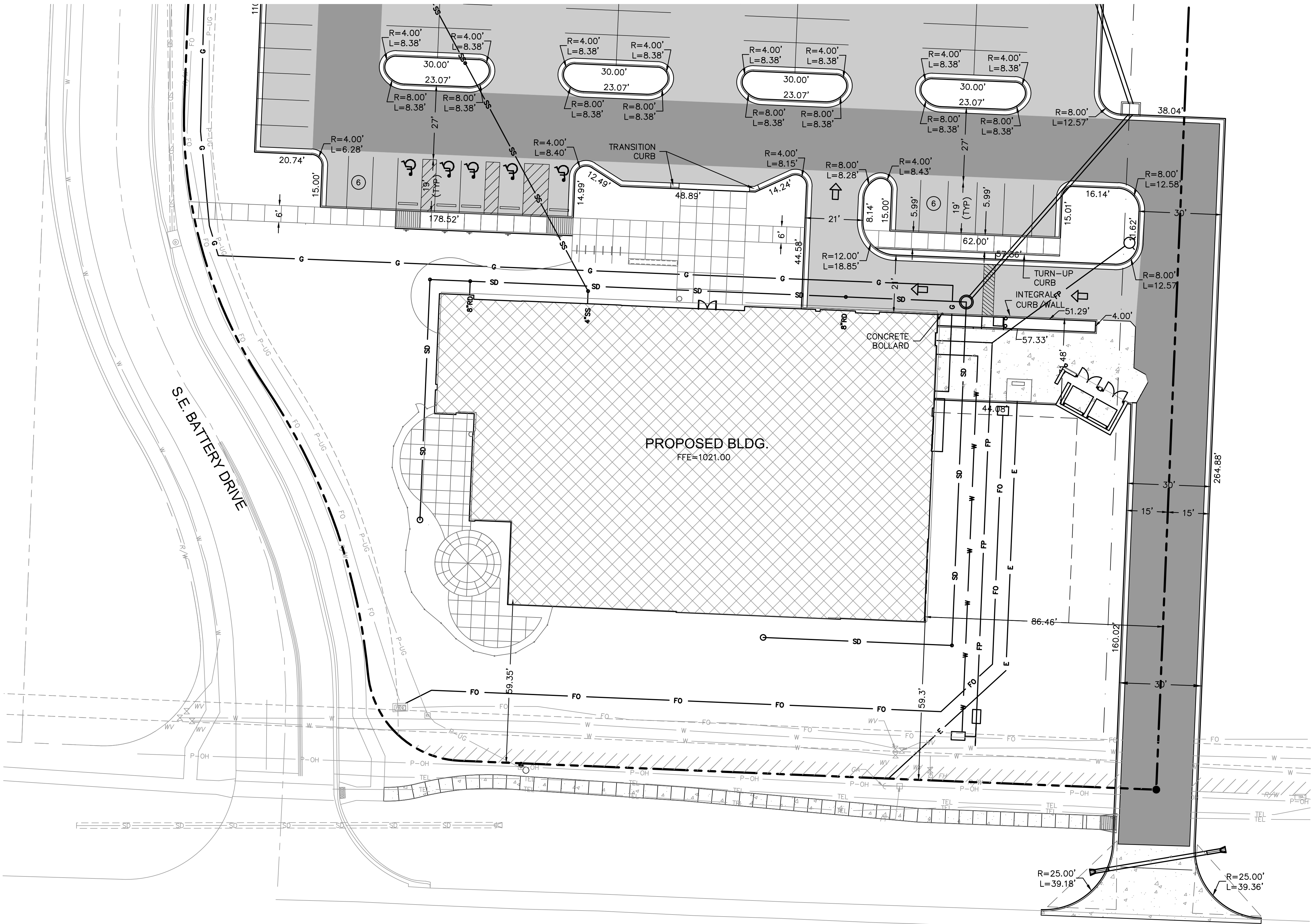
Revision No.	Description	Date
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Project No.	Date	Drawn
B18-0330	12.07.18	RLK

Drawing No.

C4.0

SITE DIMENSION PLAN



LEGEND	
	PROPERTY LINE
	CONSTRUCT CONCRETE CURB & GUTTER TYPE "B-DRY"
	CONSTRUCT CONCRETE DRY CURB & GUTTER TYPE "B"
	SAWCUT PAVEMENT FULL DEPTH
	CONCRETE PAVEMENT-HEAVY DUTY
	CONCRETE SIDEWALK PAVEMENT
	ASPHALT PAVEMENT - HEAVY DUTY
	ASPHALT PAVEMENT-PARKING AREAS
	PARKING STALLS
	ADA ACCESSIBLE ROUTE

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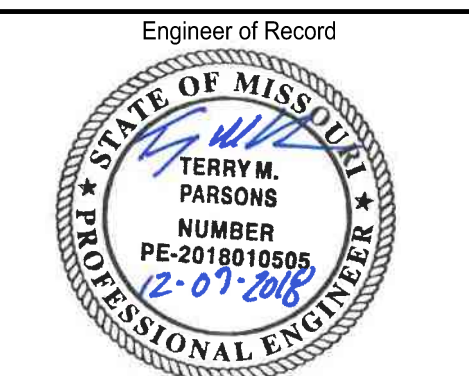
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Revision No.	Description	Date
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Project No.	Date	Drawn
B18-0330	12.07.18	RLK

Drawing No.

C4.1
SITE DIMENSION PLAN

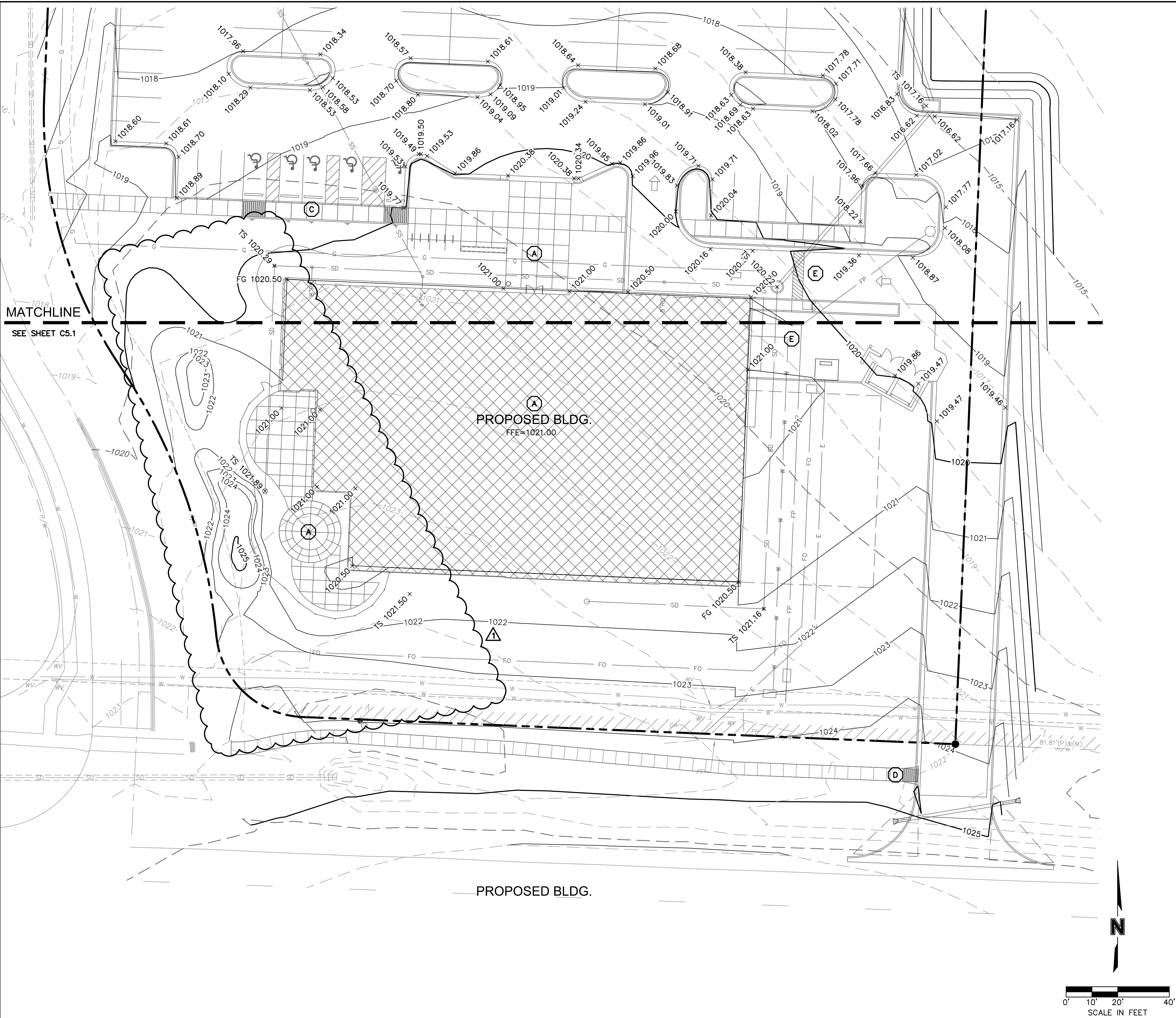


- | | |
|------------|---|
| TC= | TOP OF CURB |
| FG= | FINISHED GRADE WITHIN GREENSPACE |
| TS= | TOP OF STRUCTURE |
| TP=TC= | CURB DEPRESSED TO BE FLUSH WITH ADJACENT PAVEMENT |
| HI.PT.= | HIGH POINT |
| LP= | LOW POINT |
| MATCH EX.= | MATCH EXISTING |
| FFE= | FINISH FLOOR ELEVATION AT TOP OF SLAB |



GRADING DETAILS

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LEGEND

--- PROPERTY LINE
--- EXISTING GRADE CONTOUR
--- FINISHED GRADE CONTOUR
--- RIDGE
--- VALLEY
RAMP
CONCRETE CURB & GUTTER TYPE "B"
CONCRETE CURB & GUTTER TYPE "B-DRY"
CONCRETE CURB TYPE "C" MODIFIED
GRADING DETAIL DESIGNATION RE: SHEET C5.1 THRU C5.5

- NOTES:**
1. CONTRACTOR TO REMOVE AND REPLACE ALL SIDEWALK NECESSARY FOR CONNECTION TO EXISTING.
 2. ALL ADA ACCESSIBLE SIDEWALK CROSS SLOPES SHALL HAVE A MAXIMUM CROSS SLOPE OF 2.00% AND MAXIMUM LONGITUDINAL SLOPE OF 5.00%.
 3. ALL ADA ACCESSIBLE PARKING AREAS SHALL NOT EXCEED 2.00% IN ANY DIRECTION.

SPOT ELEVATION LEGEND

ALL SPOT ELEVATIONS ARE TOP OF PAVEMENT ELEVATION UNLESS NOTED OTHERWISE. RE: PLAN VIEW, LEGEND AND DETAILS FOR CURB TYPE AND TO CALCULATE TOP OF CURB ELEVATION.

TC= TOP OF CURB
FG= FINISHED GRADE WITHIN GREENSPACE
TS= TOP OF STRUCTURE
TP=TC= CURB DEPRESSED TO BE FLUSH WITH ADJACENT PAVEMENT
HI.PT.= HIGH POINT
LP= LOW POINT
MATCH EX.= MATCH EXISTING
FFE= FINISH FLOOR ELEVATION AT TOP OF SLAB

SPOT GRADES AT OVERHEAD DOORS REPRESENT A 2" LAG/DROP FROM FINISH FLOOR TO EXTERIOR PAVEMENT. RE: C-06

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LEE'S SUMMIT, MO 64063
JACKSON COUNTY

PACKAGE **04**

Engineer of Record
TERRY M. PARSONS
NUMBER
PE-2018010605
6/14/2019
PROFESSIONAL ENGINEER

Terry M Parsons, Engineer MO PE-2018010605

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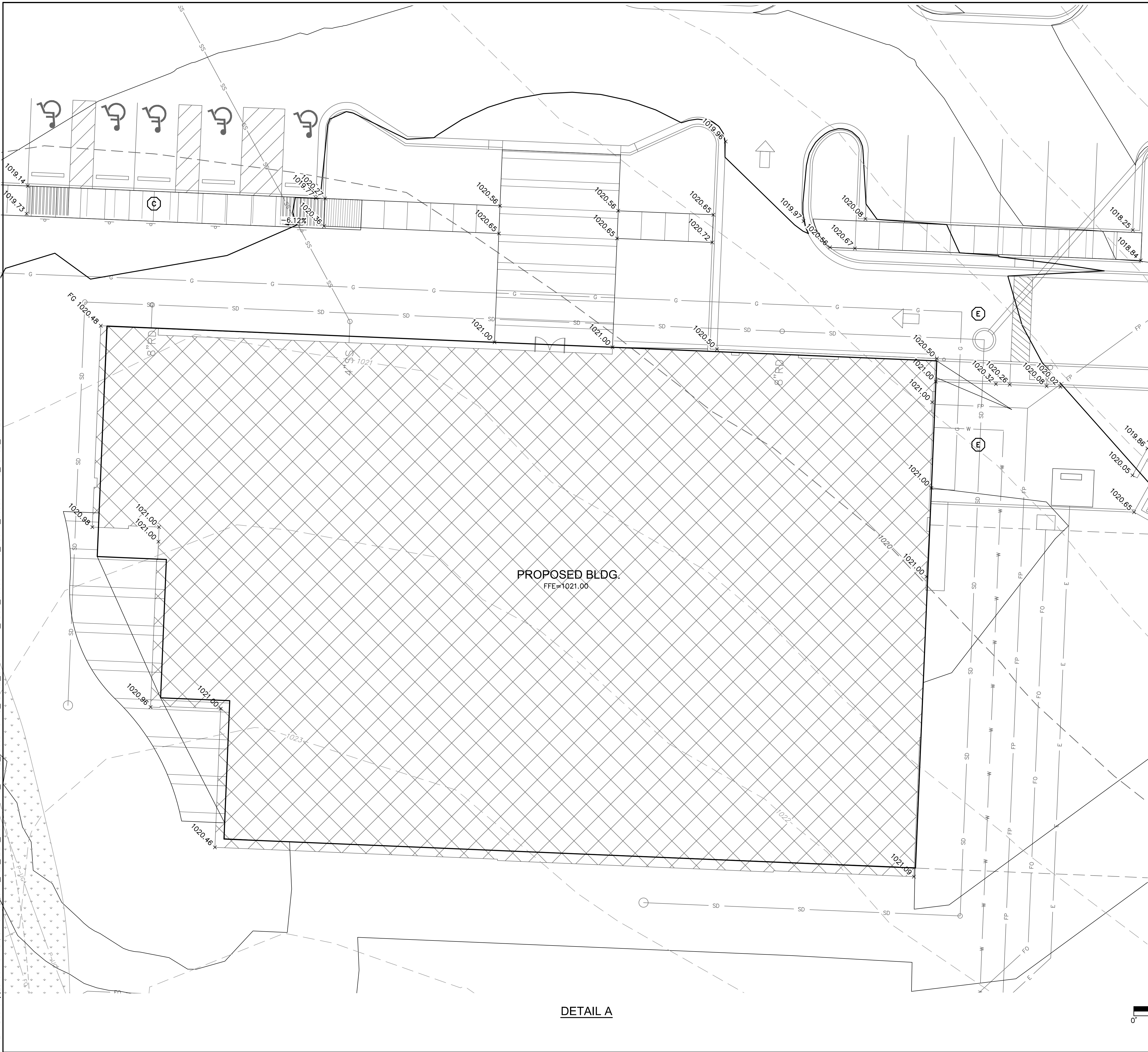
Revision No.	Description	Date
1	ASI#1	01.14.19

Project No.	Date	Drawn
B18-0330	12.07.18	RLK

Drawing No. **C5.2**
GRADING DETAILS

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USER: bkimmich L_PBASE-61023



DETAIL A

LEGEND

PROPERTY LINE

EXISTING GRADE CONTOUR

FINISHED GRADE CONTOUR

 RIDGE RIDGE LINE
 VALLEY VALLEY LINE

RAMF

CONCRETE CURB &
GUTTER TYPE "B"

CONCRETE CURB &
GUTTER TYPE "B-DRY"

CONCRETE CURB
TYPE "C" MODIFIED

GRADING DETAIL DESIGNATION
RE: SHEET C5.1 THRU C5.5

NOTES

1. CONTRACTOR TO REMOVE AND REPLACE ALL SIDEWALK NECESSARY FOR CONNECTION TO EXISTING.
2. ALL ADA ACCESSIBLE SIDEWALK CROSS SLOPES SHALL HAVE A MAXIMUM CROSS SLOPE OF 2.00% AND MAXIMUM LONGITUDINAL SLOPE OF 5.00%.
3. ALL ADA ACCESSIBLE PARKING AREAS SHALL NOT EXCEED 2.00% IN ANY DIRECTION.

SPOT ELEVATION LEGEND

ALL SPOT ELEVATIONS ARE TOP OF PAVEMENT ELEVATION
UNLESS NOTED OTHERWISE. RE: PLAN VIEW, LEGEND AND
DETAILS FOR CURB TYPE AND TO CALCULATE TOP OF
CURB ELEVATION.

TC= TOP OF CURB
FG= FINISHED GRADE WITHIN GREENSPACE
TS= TOP OF STRUCTURE
TP=TC= CURB DEPRESSED TO BE FLUSH WITH
ADJACENT PAVEMENT

HI.PT.= HIGH POINT
LP= LOW POINT
MATCH EX.= MATCH EXISTING
FFE= FINISH FLOOR ELEVATION AT TOP OF SLAB

SPOT GRADES AT OVERHEAD DOORS REPRESENT A 2"
LAG/DROP FROM FINISH FLOOR TO EXTERIOR
PAVEMENT. RE: C-06

**SAPP
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ARCHITECTS**

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Missouri State Certificate of Authority #000607

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529 Walnut	
Kansas City, MO 64108	816.300.03

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Mid-Continent Public Library
CONSTRUCTION DOCUMENT PLANS FOR
EAST LEE'S SUMMIT BRANCH
2240 SE BLUE PARKWAY
LEE'S SUMMIT, MO 64063
JACKSON COUNTY

04 PACKAGE

Engineer of Record



Terry M Parsons, Engineer MO PE-201801050

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FAX 913.381.1174
www.olsson.com

Issson

Division No.	Description	Date
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Division No.	Description	Date
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Project No.	Date	Drawn
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B18-0330	12.07.18	RLK
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Drawing No. **05 2**

C5.3

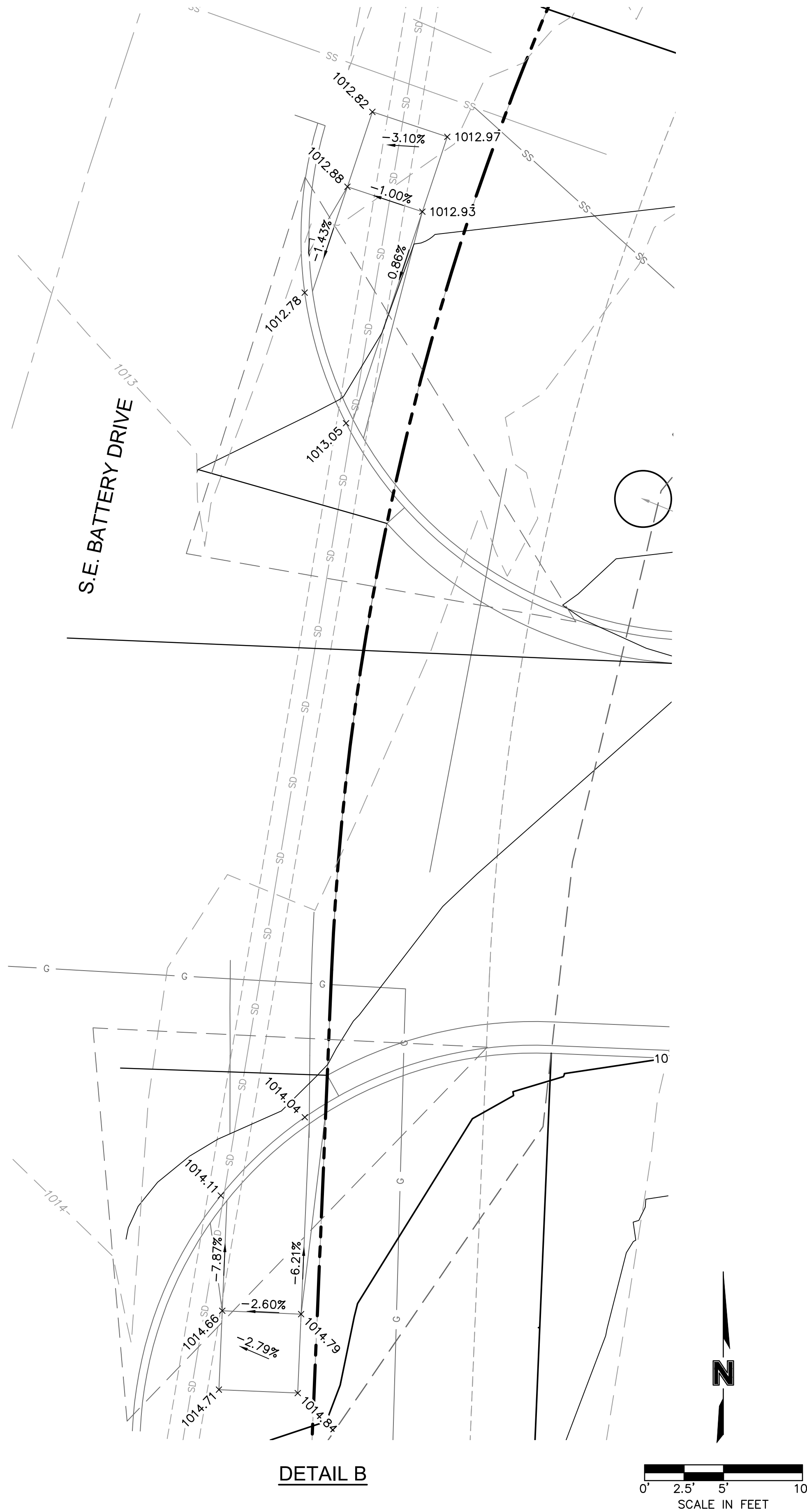
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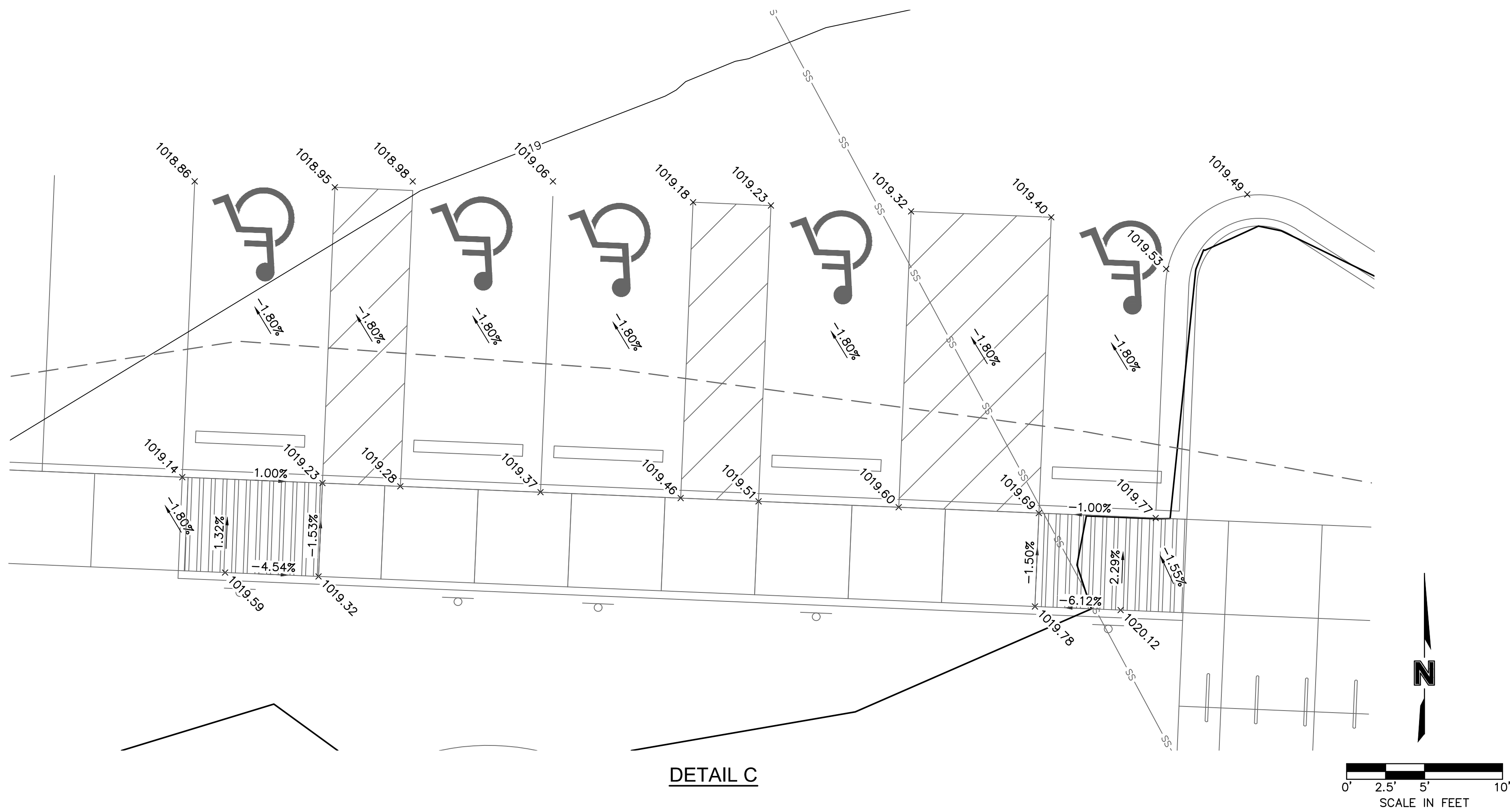
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DATE: Dec 07, 2018 11:46am XREFS: C_4LS_TBLK_80330 C_PBASE_80330 V_XBOU_80330 C_PSURF_80330 C_PBASE_61023



DETAIL B



DETAIL C

LEGEND

	PROPERTY LINE
	EXISTING GRADE CONTOUR
	FINISHED GRADE CONTOUR
	RIDGE LINE
	VALLEY LINE
	RAMP
	CONCRETE CURB & GUTTER TYPE "B"
	CONCRETE CURB & GUTTER TYPE "B-DRY"
	CONCRETE CURB TYPE "C" MODIFIED

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SPOT GRADES AT OVERHEAD DOORS REPRESENT A 2" LAG/DROP FROM FINISH FLOOR TO EXTERIOR PAVEMENT. RE: C-06

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DESIGN
ARCHITECTS

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JACKSON COUNTY

PACKAGE
04

Engineer of Record



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Revision No.	Description	Date
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Project No.	Date	Drawn
B18-0330	12.07.18	RLK

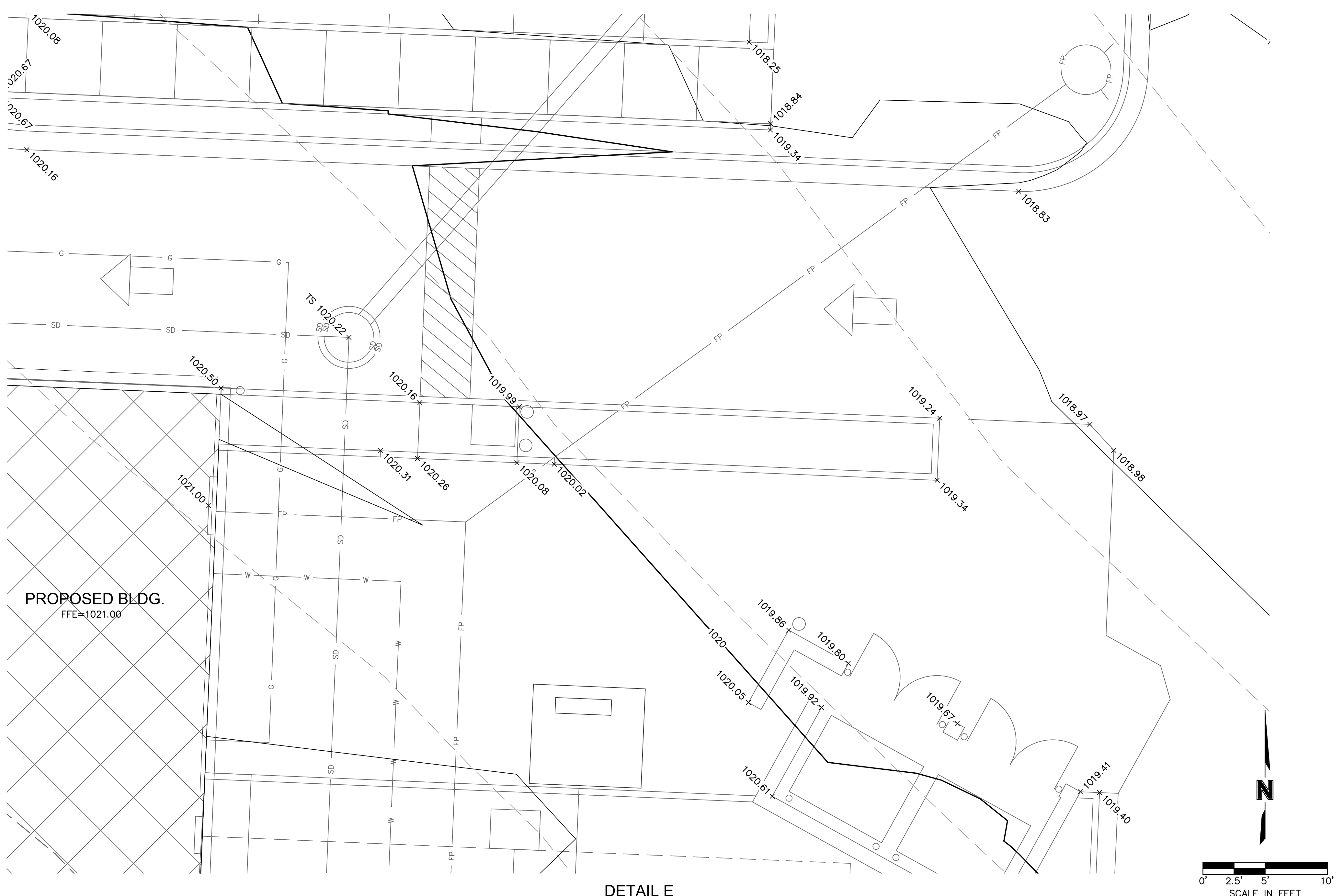
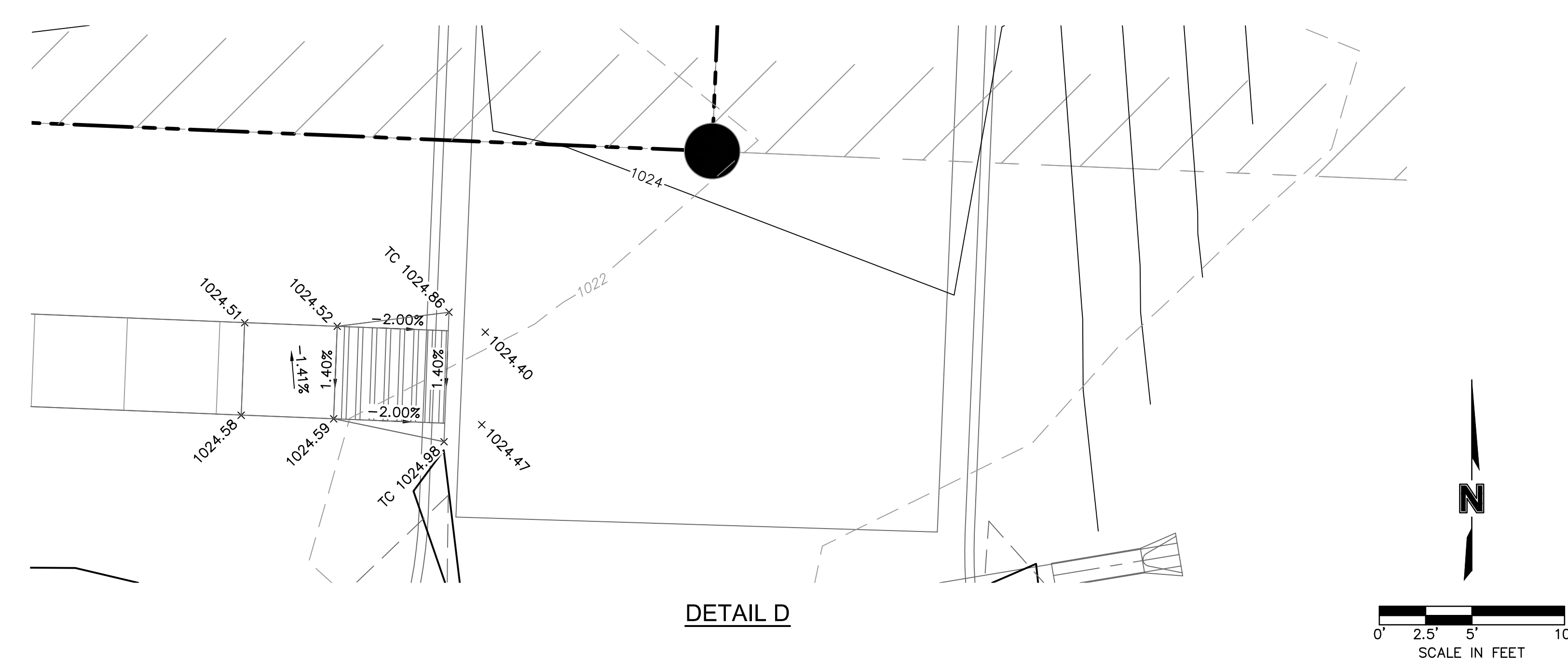
Drawing No.

C5.4

GRADING DETAILS

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LEGEND

	PROPERTY LINE
	EXISTING GRADE CONTOUR
	FINISHED GRADE CONTOUR
	RIDGE LINE
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	CONCRETE CURB & GUTTER TYPE "B-DRY"
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Mid-Continent Public Library

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2240 SE BLUE PARKWAY
LEE'S SUMMIT, MO 64063
JACKSON COUNTY

PACKAGE **04**

Engineer of Record

Terry M Parsons, Engineer MO PE-2018010505

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Revision No.	Description	Date

Project No.	Date	Drawn
B18-0330	12.07.18	RLK

Drawing No. **C5.5**

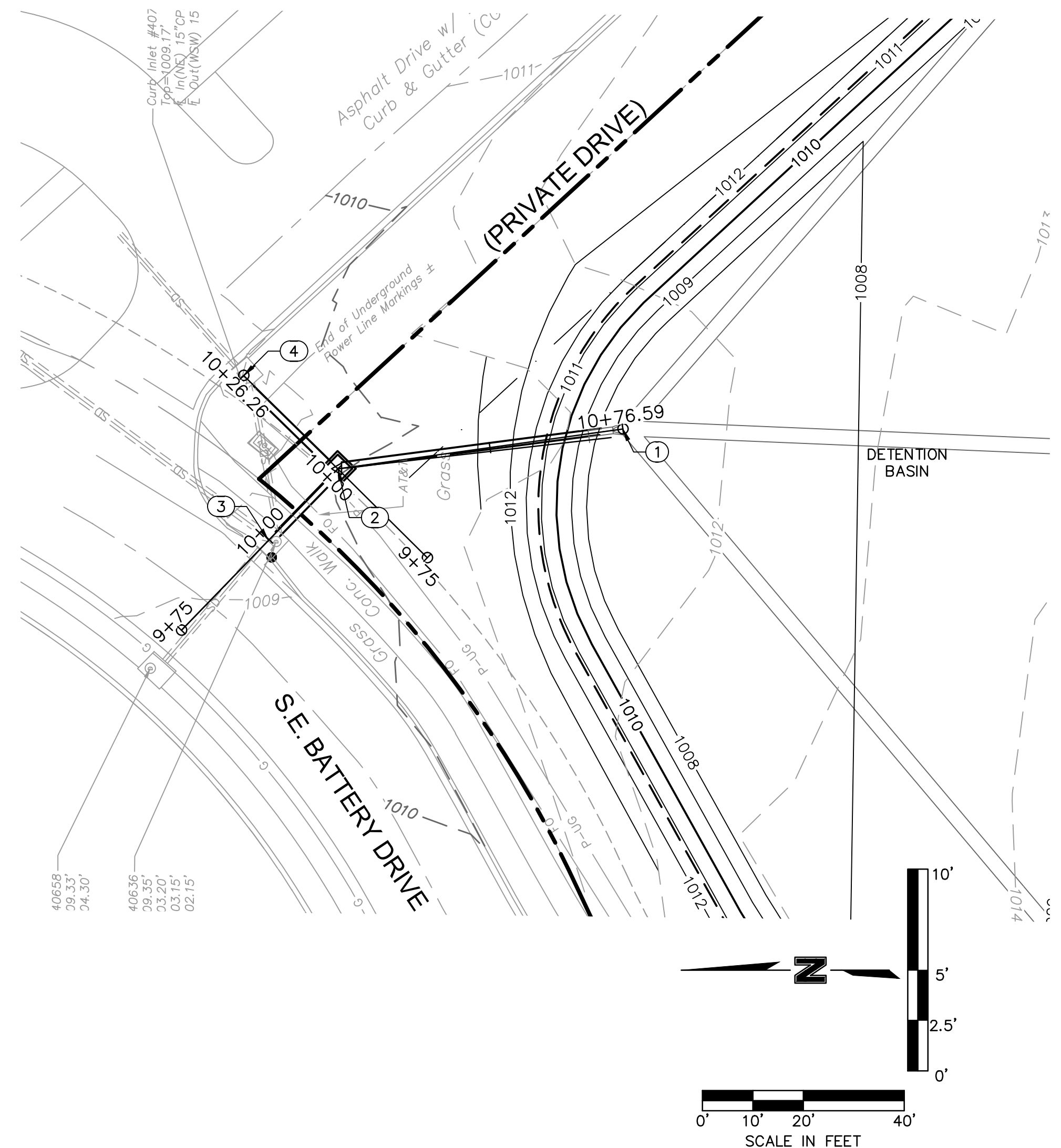
GRADING DETAILS

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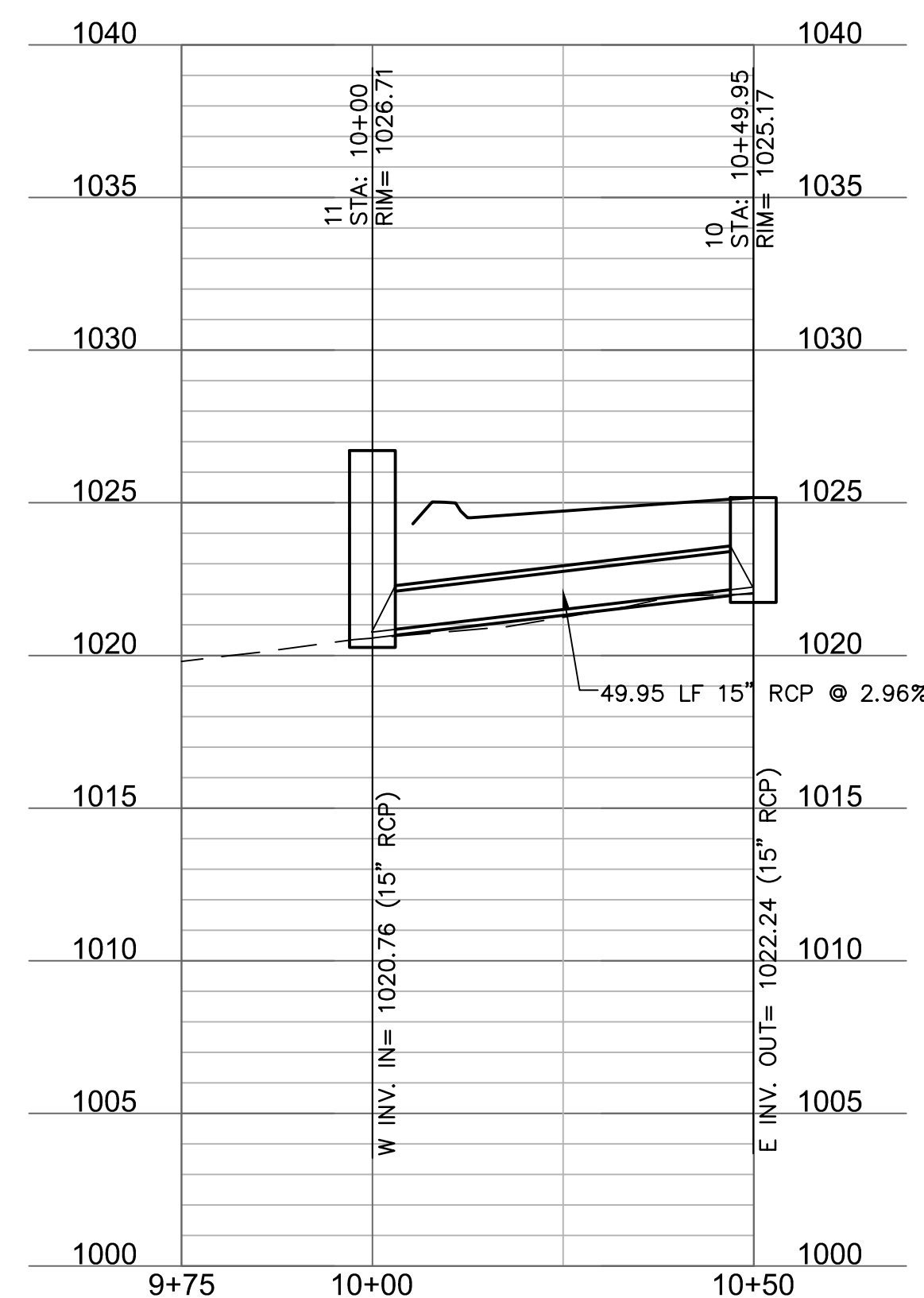
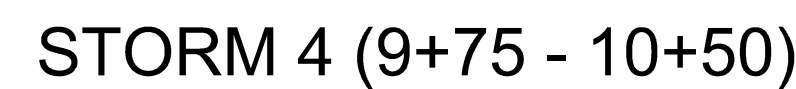
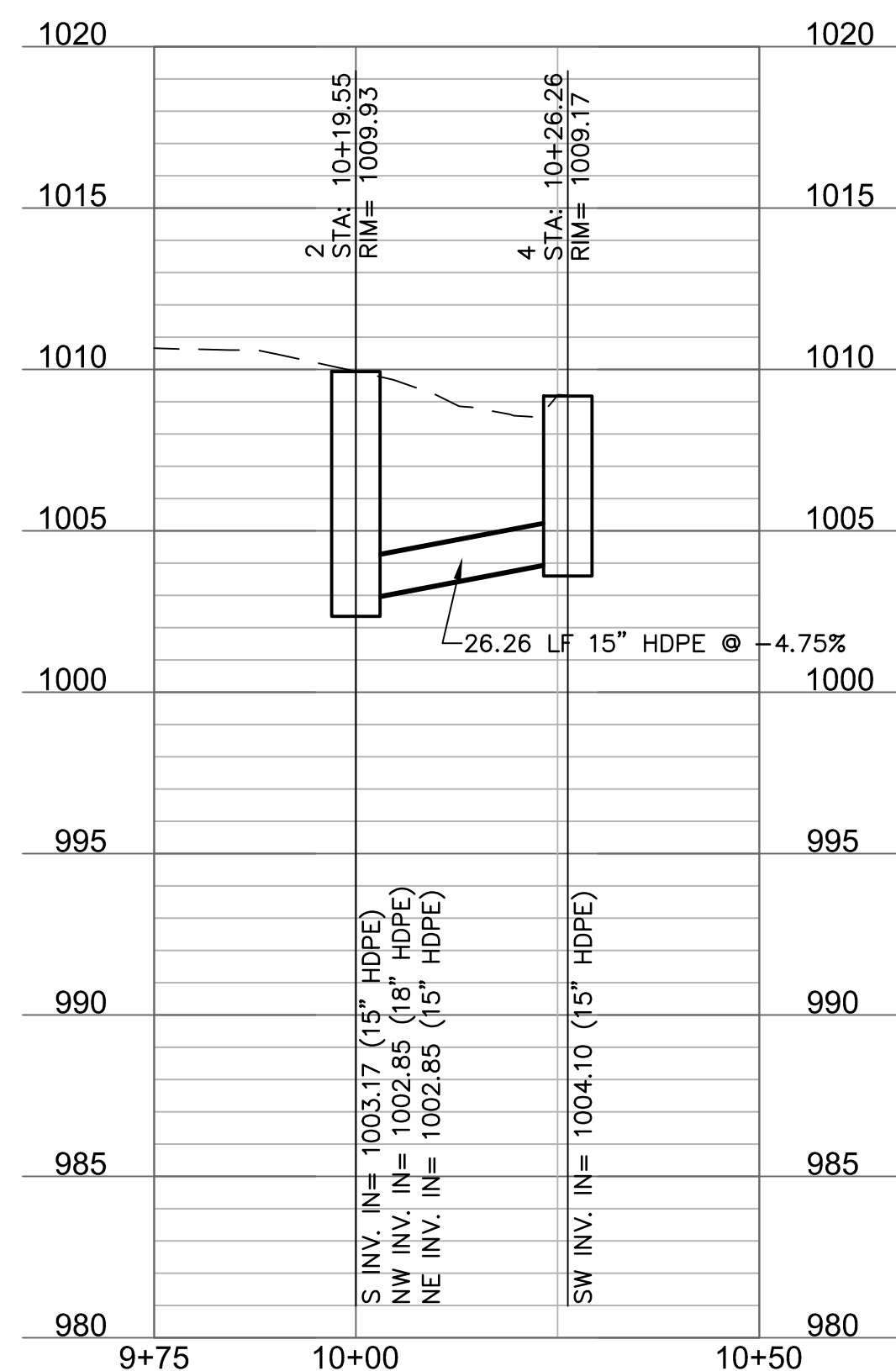
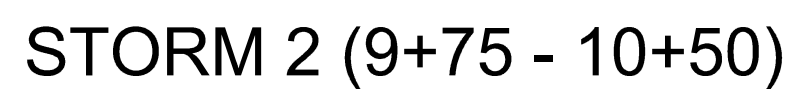
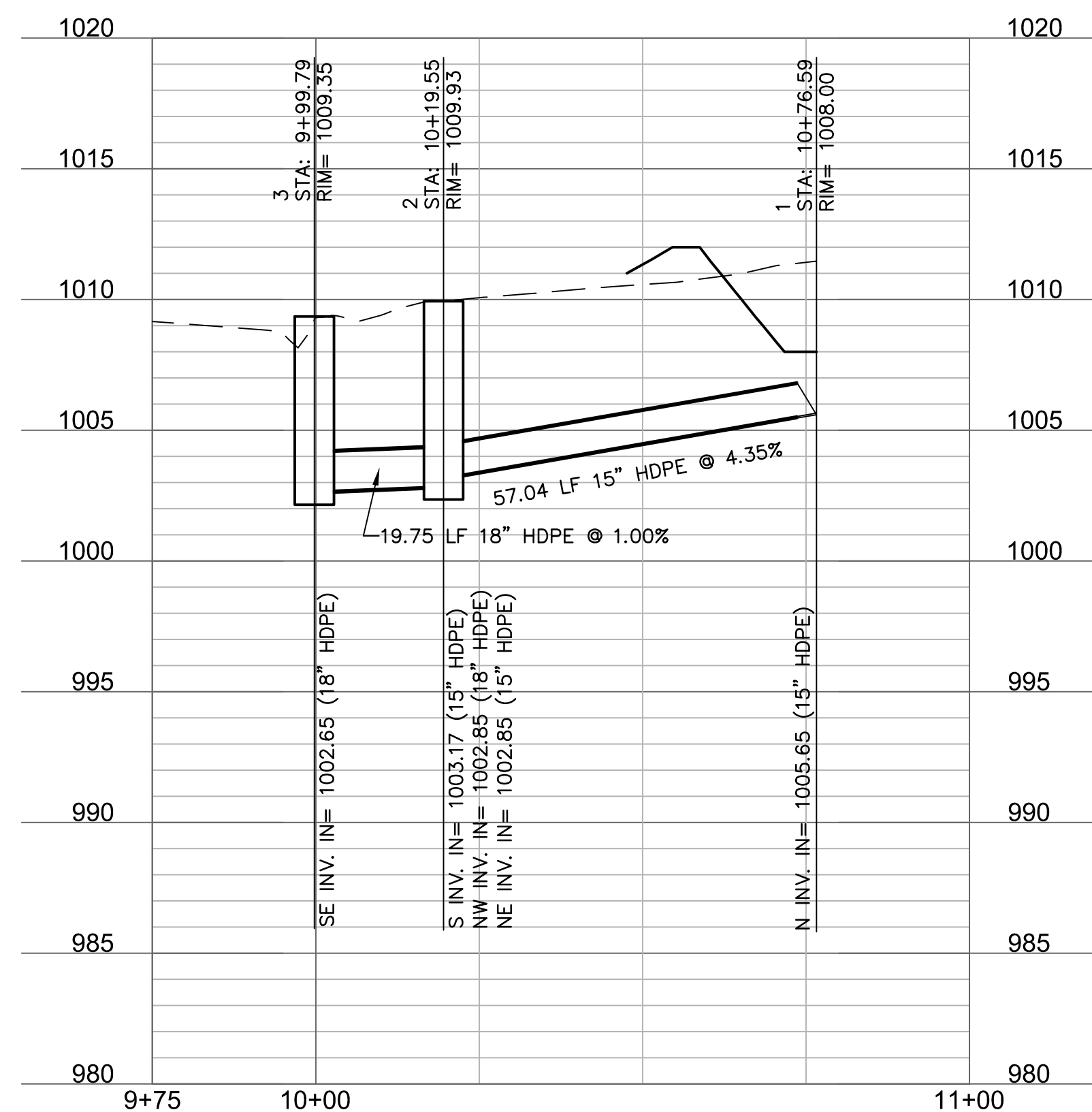
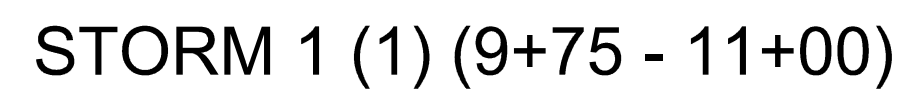
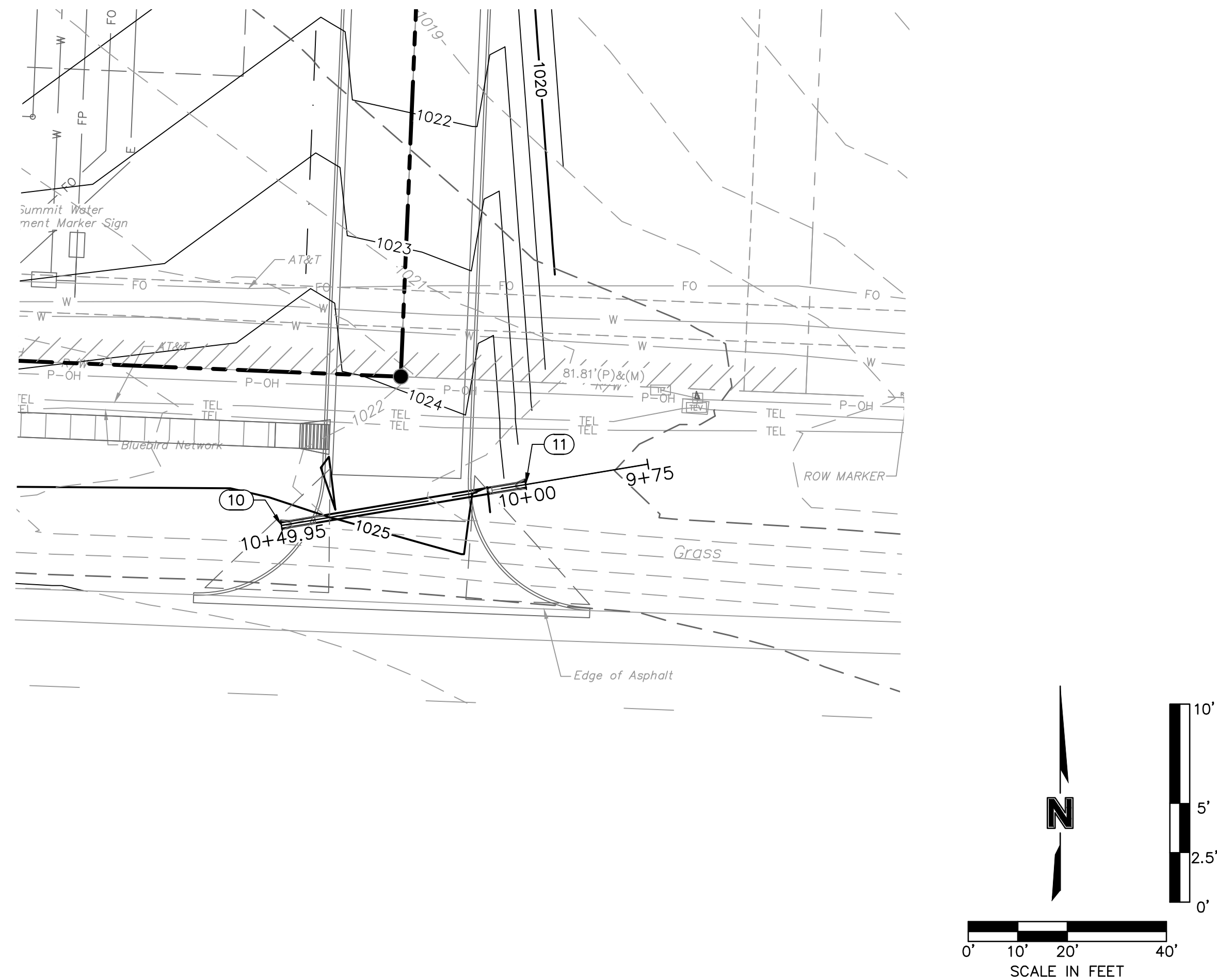
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STRUCTURES	
ID	DESCRIPTION
1	INSTALL 15" HDPE END SECTION W/TOEWALL 10+76.59, 0.00' STORM 1 (1) RIM= 1008.00 INV IN = 1005.65 (15" HDPE) N: 996650.384; E: 2837335.188
2	5' X 5' JUNCTION BOX RE: CONTROL STRUCTURE DETAIL, SHEET C10.6 10+19.55, 0.00' STORM 1 (1) RIM= 1009.93 INV IN = 1003.17 (15" HDPE) INV IN = 1002.85 (18" HDPE) INV IN = 1002.85 (15" HDPE) N: 996706.879; E: 2837327.294
3	5' X 5' JUNCTION BOX 9+99.79, 0.00' STORM 1 (1) RIM= 1009.35 INV IN = 1002.65 (18" HDPE) N: 996720.622; E: 2837313.108

STRUCTURES	
ID	DESCRIPTION
2	5' X 5' JUNCTION BOX RE: CONTROL STRUCTURE DETAIL, SHEET C10.6 10+19.55, 0.00' STORM 1 (I) RIM= 1009.93 INV IN = 1003.17 (15" HDPE) INV IN = 1002.85 (18" HDPE) INV IN = 1002.85 (15" HDPE) N: 996706.879; E: 2837327.294
4	5' X 5' JUNCTION BOX 10+26.26, 0.00' STORM 2 RIM= 1009.17 INV IN = 1004.10 (15" HDPE) N: 996725.522; E: 2837345.785



STRUCTURES	
ID	DESCRIPTION
10	INSTALL 15" RCP END SECTION WITH CONCRETE TOEWALL AND 1.9 CUBIC YARDS CLASS 2 RIPRAP 10+49.95, 0.00' STORM 4 RIM= 1025.17 INV OUT = 1022.24 (15" RCP) N: 996116.289; E: 2837465.075
11	INSTALL 15" RCP END SECTION WITH CONCRETE TOEWALL AND 1.9 CUBIC YARDS CLASS 2 RIPRAP 10+00, 0.00' STORM 4 RIM= 1026.71 INV IN = 1020.76 (15" RCP) N: 996124.538; E: 2837514.343

**SAPP
DESIGN
ARCHITECTS**

3750 S. Fremont Ave.
Springfield, MO 65804 **417.877.9600**

Sapp Design Associates Architects, P.C.
Missouri State Certificate of Authority #000607

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1629 Walnut Kansas City, MO 64108	816.300.0300
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Mid-Continent Public Library

CONSTRUCTION DOCUMENT PLANS FOR

EAST LEE'S SUMMIT BRANCH

2240 SE BLUE PARKWAY
LEE'S SUMMIT, MO 64063
JACKSON COUNTY

PACKAGE 4

Engineer of Record



Terry M Parsons, Engineer MO PE-2018010505

olsson

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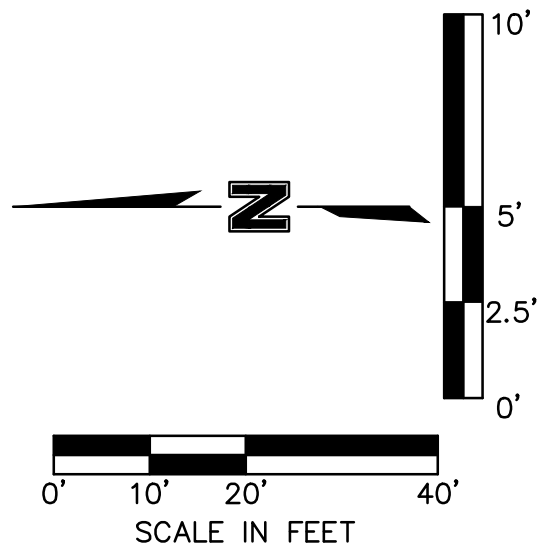
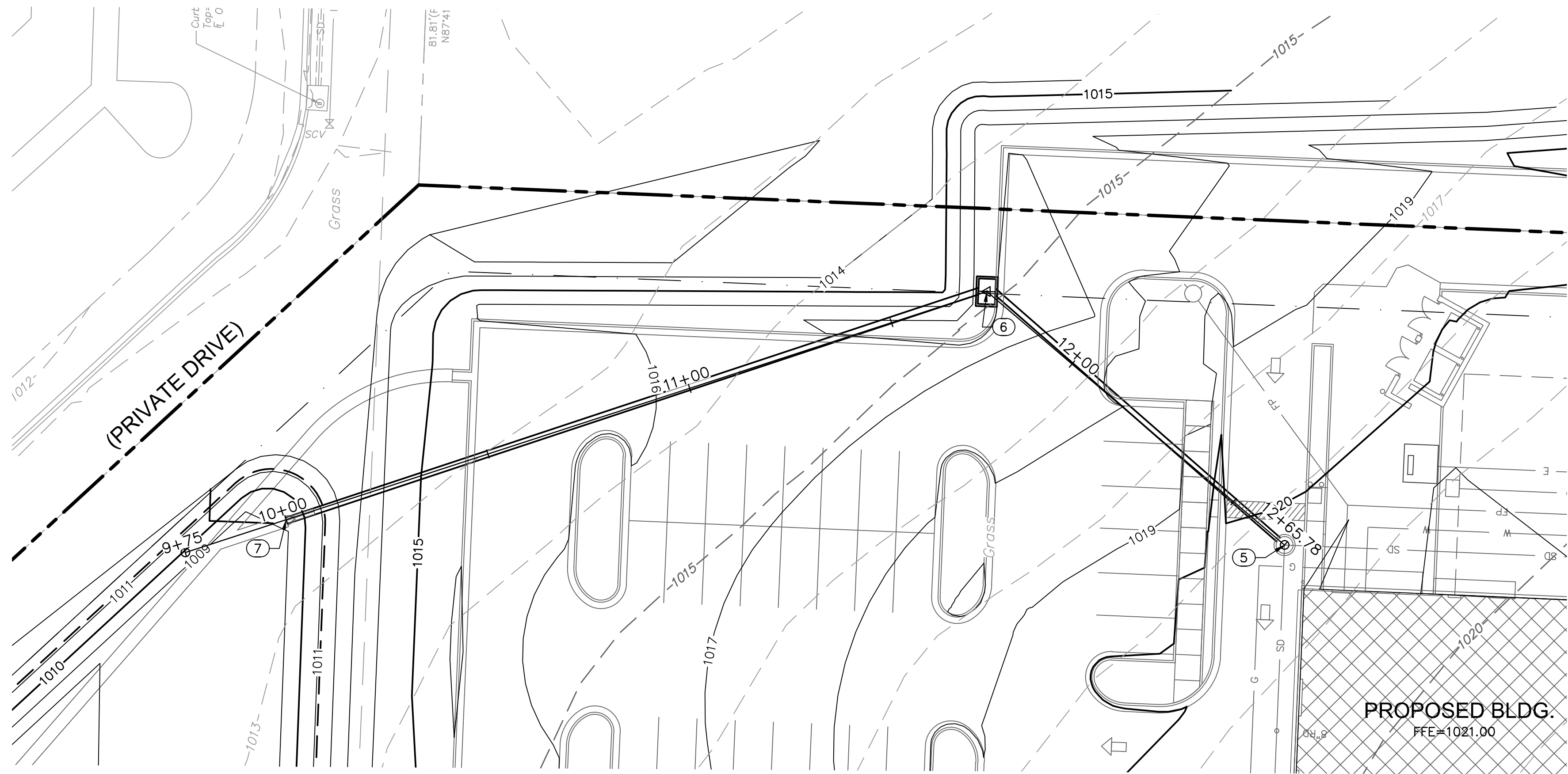
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1	ASI#1	01.14.19

Project No.	Date	Drawn
B18-0330	12.07.18	RLK

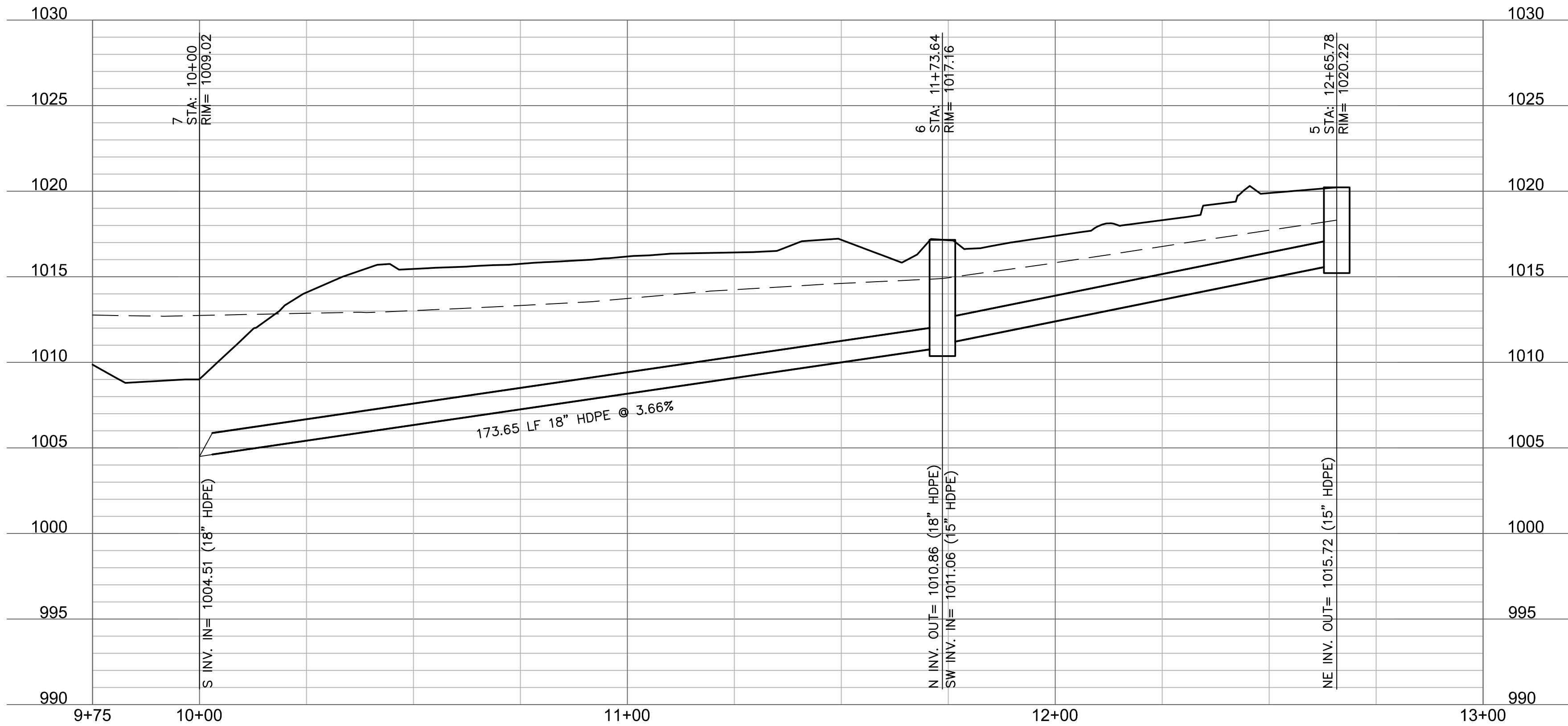
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STORM SEWER PLAN & PROFILE

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STORM 3 (9+75 - 13+00)



STRUCTURES	
ID	DESCRIPTION
5	INSTALL STD. 4' DIA. MH W/HEAVY DUTY RING & COVER 12+65.78, 0.00' STORM 3 RIM= 1020.22 INV OUT = 1015.72 (15" HDPE) N: 996323.625; E: 2837420.130
6	INSTALL STD. 6'X4' NON-SETBACK CURB INLET 11+73.64, 0.00' STORM 3 RIM= 1017.16 INV IN = 1011.06 (15" HDPE) INV OUT = 1010.86 (18" HDPE) N: 996393.767; E: 2837479.875
7	INSTALL 18" HDPE END SECTION W/TOEWALL AND XX LF OF 150# RIPRAP 10+00, 0.00' STORM 3 RIM= 1009.02 INV IN = 1004.51 (18" HDPE) N: 996558.877; E: 2837426.099

SAPP
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Revision No.	Description	Date
1	ASI#1	01.14.19

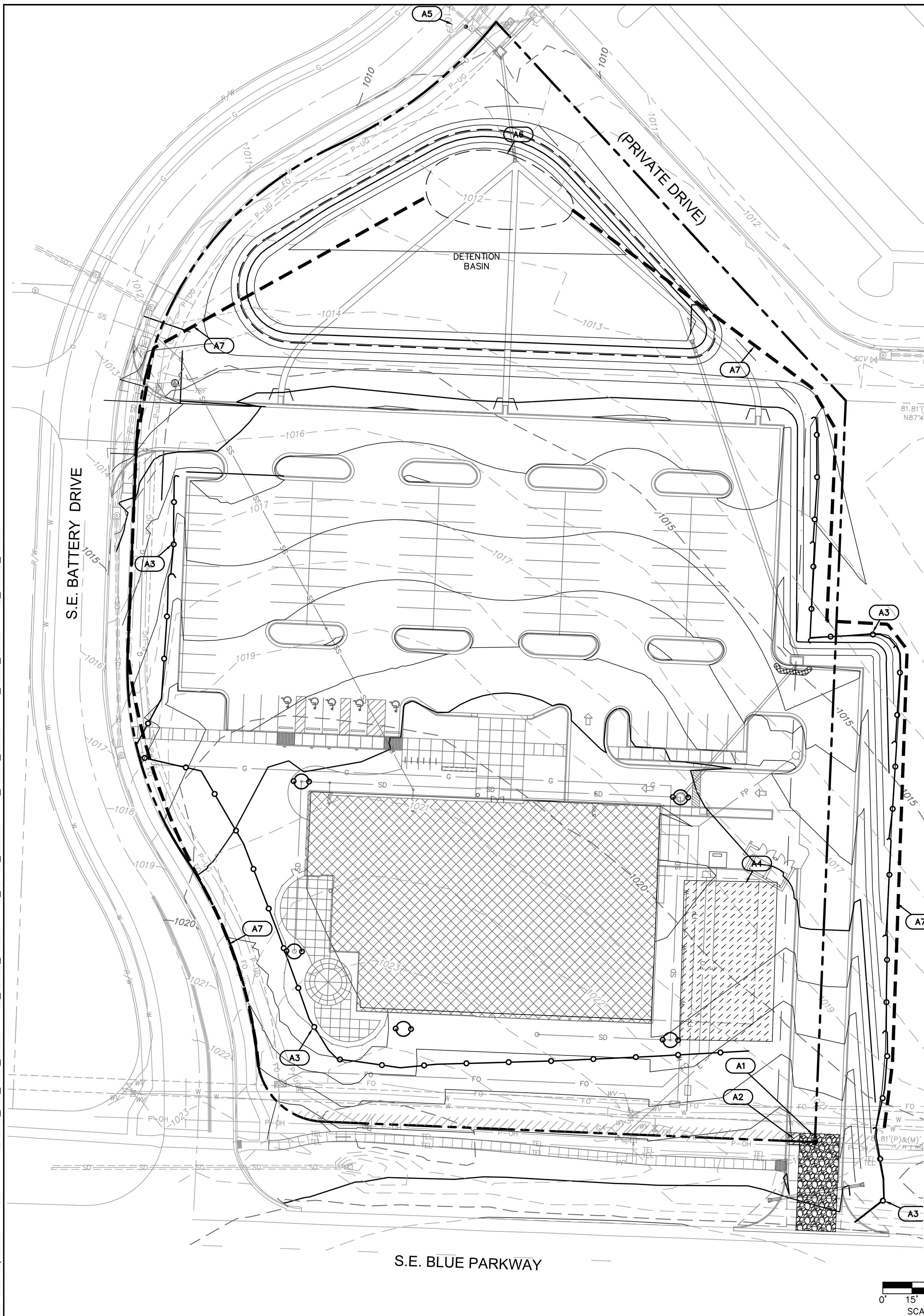
Project No. B18-0330	Date 12.07.18	Drawn RLK
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Drawing No.
C7.1

STORM SEWER
PLAN & PROFILE









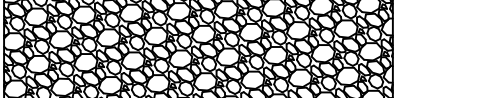




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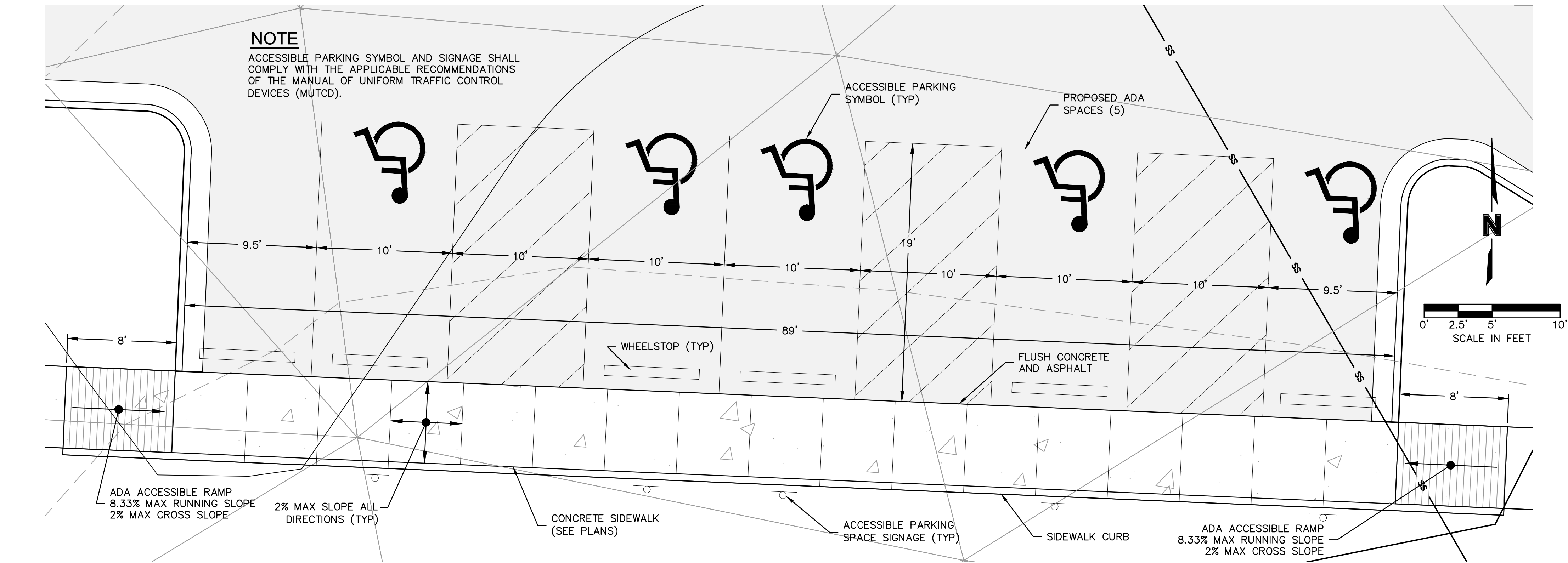
EROSION CONTROL STAGING CHART				
PROJECT STAGE	EROSION CONTROL BMP REFERENCE NO.	BMP DESCRIPTION	REMOVE AFTER STAGE	NOTES:
A – PRE–CONSTRUCTION	A1	TEMPORARY CONSTRUCTION ENTRANCE	C	INSTALL AS INDICATED ON PLANS
	A2	CONCRETE WASHOUT	C	INSTALL AS INDICATED ON PLANS
	A3	TEMPORARY SLOPE BARRIER (SEDIMENT FENCE)	D	INSTALL AS INDICATED ON PLANS
	A4	STAGING / STOCKPILE AREA	C	INSTALL AS INDICATED ON PLANS
	A5	EXISTING CURB INLET PROTECTION – TEMPORARY SEDIMENT BARRIER – CONDITION A	C	INSTALL AS INDICATED ON PLANS
	A6	TEMPORARY SEDIMENT TRAP AND STORM SEWER LINE D	C	INSTALL AS INDICATED ON PLANS
	A7	TEMPORARY DIVERSION BERM	C	INSTALL AS INDICATED ON PLANS
	A8	SWPP SIGN	C	INSTALL AS INDICATED ON PLANS
B – STORM SEWER & UTILITY CONSTRUCTION (STABILIZE ANY DISTURBED AREAS OUTSIDE OF BUILDING PADS AND PARKING LOTS)	B1	TEMPORARY SEDIMENT BARRIER – CURB INLET – CONDITION A	C	INSTALL AS INDICATED ON PLANS
	B2	TEMPORARY SEDIMENT BARRIER – JUNCTION BOX – CONDITION A	C	INSTALL AS INDICATED ON PLANS
	B3	TEMPORARY EROSION CONTROL BLANKET (LANDLOK S2)	C	INSTALL AS INDICATED ON PLANS
C – BUILDING AND PAVEMENT CONSTRUCTION	C1	TEMPORARY SEDIMENT BARRIER – CURB INLET – CONDITION B	D	INSTALL AS INDICATED ON PLANS
	C2	TEMPORARY SEDIMENT BARRIER – JUNCTION BOX – CONDITION B	D	INSTALL AS INDICATED ON PLANS
D – FINAL STABILIZATION	D1	REPLACE TOP SOIL, SEED MULCH, SOD, LANDSCAPE	N/A	ESTABLISH PERENNIAL VEGETATION WITH A 70% DENSITY OVER 100% OF DISTURBED AREA.

LEGEND

	RIGHT OF WAY LINE
	LOT LINE
	EXISTING GRADE CONTOUR
	FINISHED GRADE CONTOUR
	GRAVEL FILTER BAGS
	SEDIMENT FENCE
	TEMPORARY 18" DIVERSION BERM (SEE DETAILS)
	LIMITS OF DISTURBANCE (3.75 ACRES)
	TEMPORARY CONSTRUCTION ENTRANCE
	CONCRETE WASHOUT
	STAGING/STOCKPILE AREA
	EROSION CONTROL REFERENCE NUMBER
	STABILIZATION. "LANDLOK (S2)" SHALL BE USED OR APPROVED EQUAL. CONTACTOR TO SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL. SEED WITH PERENNIAL SEEDING TO MEET SWPPP REQUIREMENTS. INSTALL PER DETAIL AND MANUFACTURER RECOMMENDATIONS.

<h1 style="margin: 0;">SAPP DESIGN ARCHITECTS</h1> <p style="margin: 0;">3750 S. Fremont Ave. Springfield, MO 65804 417.877.9600</p> <p style="margin: 0;">Sapp Design Associates Architects, P.C. Missouri State Certificate of Authority #000607</p>		
<h2 style="margin: 0;">nelix.</h2> <p style="margin: 0;">1629 Walnut 816.300.0300 Kansas City, MO 64108</p>		
<h3 style="margin: 0;">SPECIAL NOTICES</h3> <p style="margin: 0; font-size: 0.8em;">In the event the client consents to, allows, authorizes or approves of changes to any plans, specifications or other construction documents, and these changes are not approved in writing by the design professional, the client recognizes that such changes and the results thereof are not the responsibility of the design professional. Therefore, the client agrees to release the design professional from any liability arising from the contractor's use or misuse of such changes. In addition, the client agrees to the fullest extent permitted by law, to indemnify and hold the design professional harmless from any damage, liability or cost (including reasonable attorney's fees and costs of defense) arising from such changes.</p> <p style="margin: 0; font-size: 0.8em;">The personal seal of the registered Architect or Engineer shall be the legal equivalent of the signature wherever and whenever used, and the owner of the seal shall authenticate this sheet and the specification sections pertaining to this sheet. Responsibility shall be distributed for all other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural project.</p>		
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> <p>Mid-Continent Public Library</p> <p>CONSTRUCTION DOCUMENT PLANS FOR</p> <p>EAST LEE'S SUMMIT BRANCH</p> </div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> <p>2240 SE BLUE PARKWAY</p> <p>LEE'S SUMMIT, MO 64063</p> <p>JACKSON COUNTY</p> </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p style="font-size: 0.8em;">PACKAGE</p> <p style="font-size: 2em; font-weight: bold;">04</p> </div> </div>		
<p>Engineer of Record</p>  <p>Terry M Parsons, Engineer MO PE-2018010505</p>		
<h1 style="margin: 0;">olsson</h1> <p style="margin: 0; font-size: 0.8em;">7301 West 133rd Street, Suite 200 Overland Park, KS 66213 TEL 913.381.1170 FAX 913.381.1174 www.olsson.com</p> <p style="margin: 0; font-size: 0.8em;">Olsson Missouri State Certificate of Authority #001592</p>		
Revision No.	Description	Date
Project No. B18-0330	Date 12.07.18	Drawn RLK
<p>Drawing No. C9.1</p> <p style="text-align: center; font-weight: bold;">EROSION CONTROL - CONSTRUCTION</p> <p style="font-size: 0.7em;">© Copyright 2018 - Sapp Design Associates, Architects, P.C.</p>		

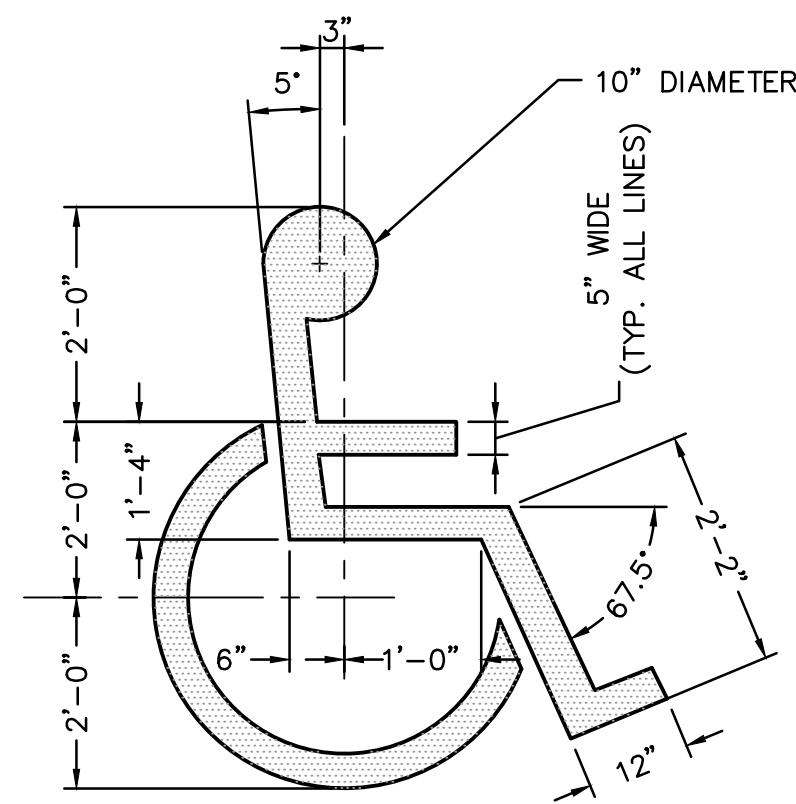
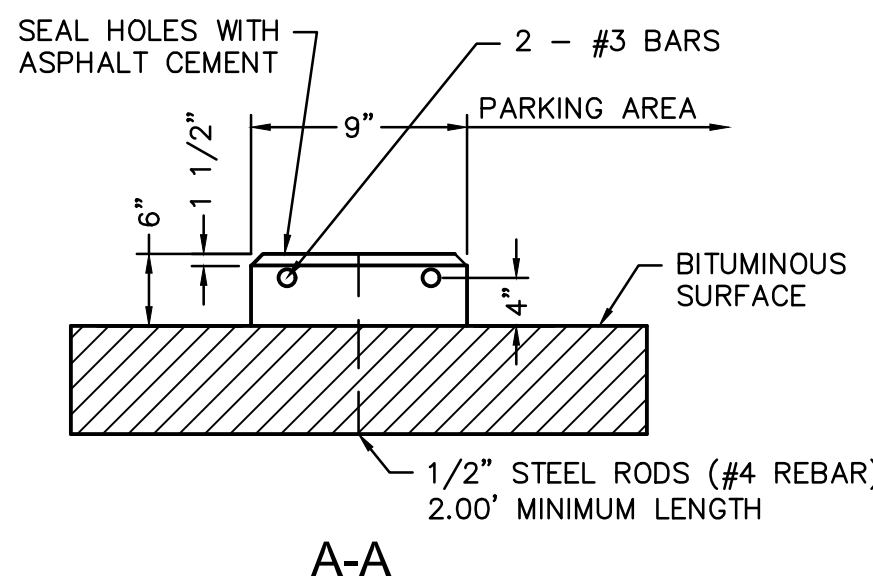
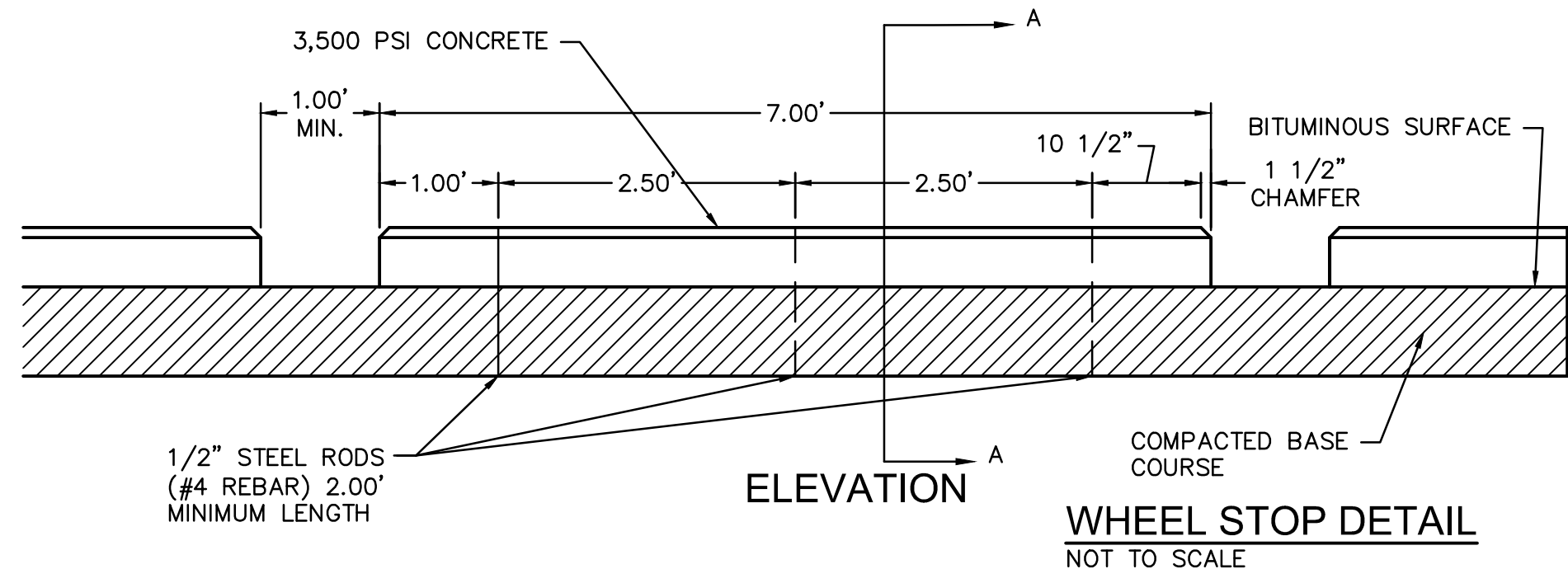
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USER: bkimmich



ADA PARKING SPACES DETAIL

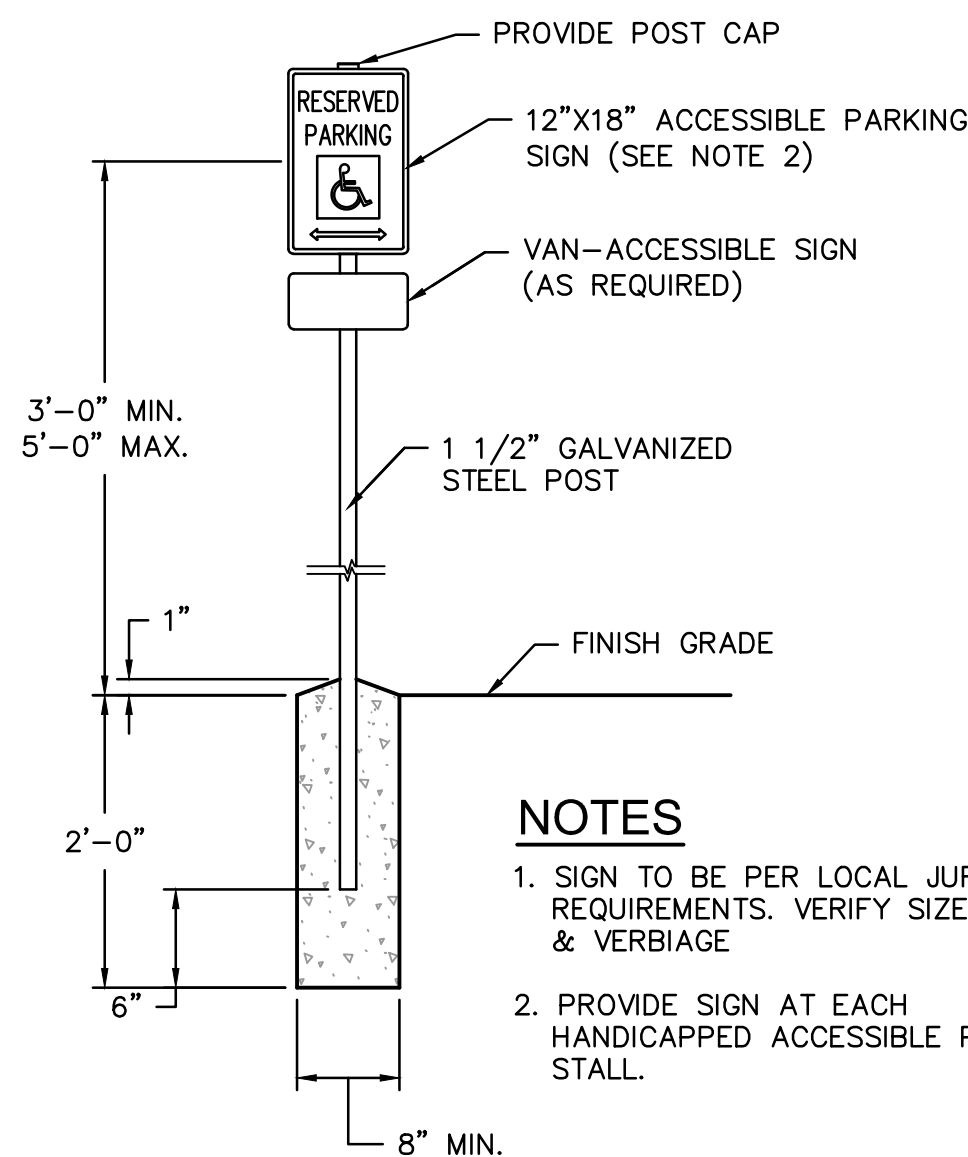
NOTE:

ANCHOR RODS TO BE SLEEVED OF GREASED THRU CONCRETE CURBS TO PERMIT RELOCATION OF CURBS.

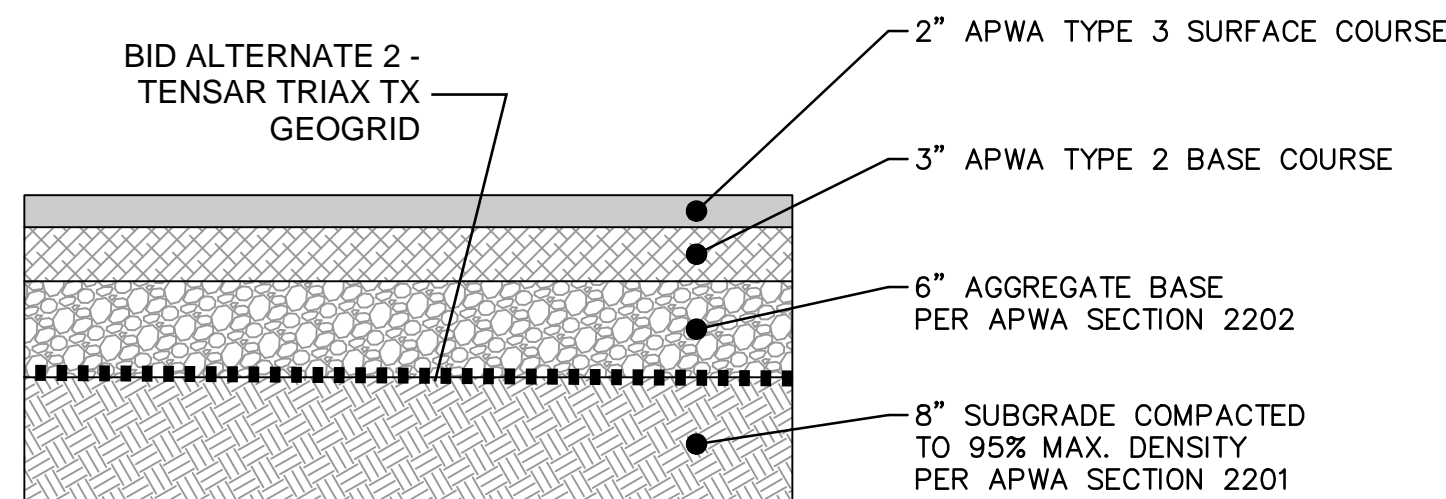


PROVIDE PAINTED SYMBOL AT EACH DESIGNATED ACCESSIBLE PARKING STALL. CENTER SYMBOL IN EACH STALL.

ACCESSIBLE PARKING SYMBOL
NOT TO SCALE

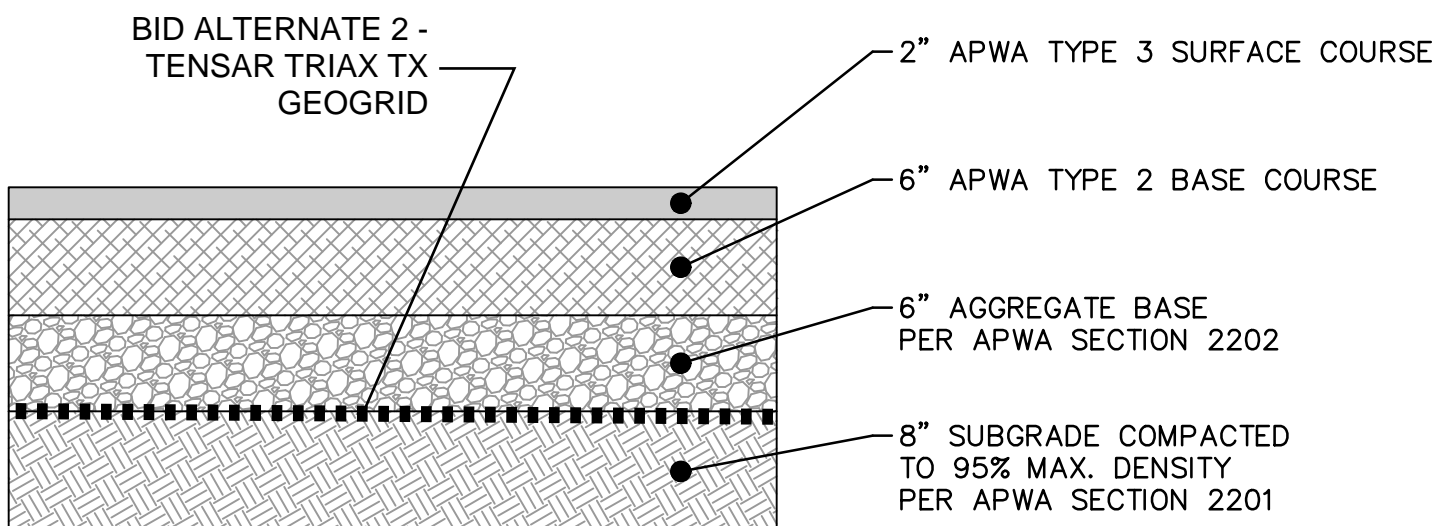


ACCESSIBLE PARKING SPACE SIGNAGE
NOT TO SCALE



NOTE: NO GEOTECHNICAL REPORT AVAILABLE AT TIME OF PLAN ISSUE. PAVEMENT SECTION PRELIMINARY.

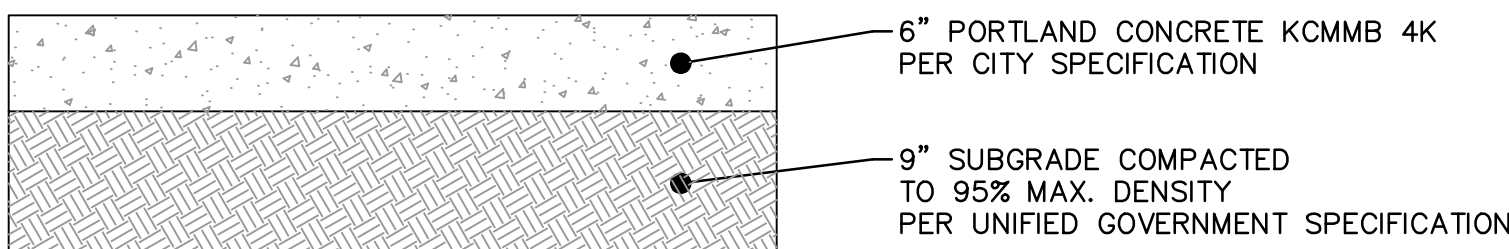
ASPHALT PAVEMENT (LIGHT TRAFFIC) WITH AGGREGATE BASE SECTION
NOT TO SCALE



NOTE: NO GEOTECHNICAL REPORT AVAILABLE AT TIME OF PLAN ISSUE. PAVEMENT SECTION PRELIMINARY.

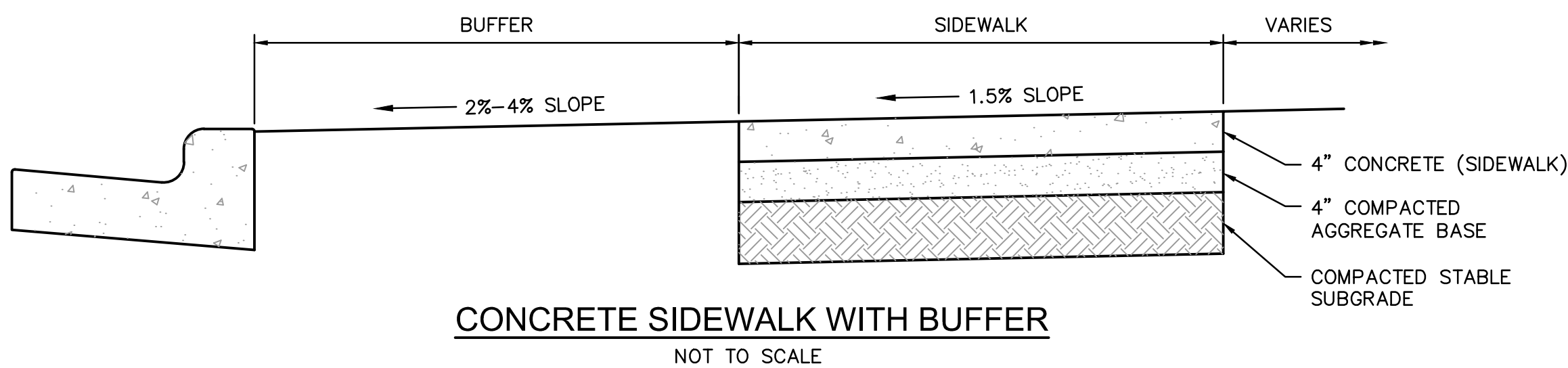
ASPHALT PAVEMENT (HEAVY TRAFFIC) WITH AGGREGATE BASE SECTION
NOT TO SCALE

* ALL MIXES SHALL BE CHECKED WITH AASHTO T 283 TEST METHOD DURING DESIGN



NOTE: NO GEOTECHNICAL REPORT AVAILABLE AT TIME OF PLAN ISSUE. PAVEMENT SECTION PRELIMINARY.

PCC PAVEMENT SECTION
NOT TO SCALE



GENERAL NOTES:

- SUBGRADE MUST BE OF STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH 4" COMPACTED DENSE GRADED AGGREGATE BASE.
- 1.5% CROSS SLOPE MUST BE MAINTAINED THROUGH DRIVEWAYS.
- KCMMB 4K CONCRETE MIX SHALL BE REQUIRED FOR ALL SIDEWALKS OR AS APPROVED BY THE CITY INSPECTOR.
- ALL SIDEWALKS SHALL MEET CURRENT PUBLIC RIGHT OF WAY ACCESSIBILITY GUIDELINES (PROWAG). AN EXPANSION JOINT SHALL BE PLACED AT A MAXIMUM OF 150 FT. CONSTRUCTION JOINTS SHALL BE PLACED THE SAME WIDTH OF SIDEWALK, BUT NO GREATER THAN 10 FT.
- SIDEWALK FINISHING (NO PICTURE FRAMING) AS DIRECTED BY CITY INSPECTOR.
- WHITE CURING COMPOUND MUST BE APPLIED UNIFORMLY TO THE CONCRETE SURFACE IMMEDIATELY AFTER FINAL FINISHING.

**SAPP
DESIGN
ARCHITECTS**

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Springfield, MO 65804 417.877.9600

Sapp Design Associates Architects, P.C.
Missouri State Certificate of Authority #000607

helix.

1629 Walnut
Kansas City, MO 64108 816.300.0300

SPECIAL NOTICES

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Mid-Continent Public Library
CONSTRUCTION DOCUMENT PLANS FOR
EAST LEE'S SUMMIT BRANCH
2240 SE BLUE PARKWAY
LEE'S SUMMIT, MO 64063
JACKSON COUNTY

PACKAGE
04

Engineer of Record



Terry M Parsons, Engineer MO PE-2018010505

olsson

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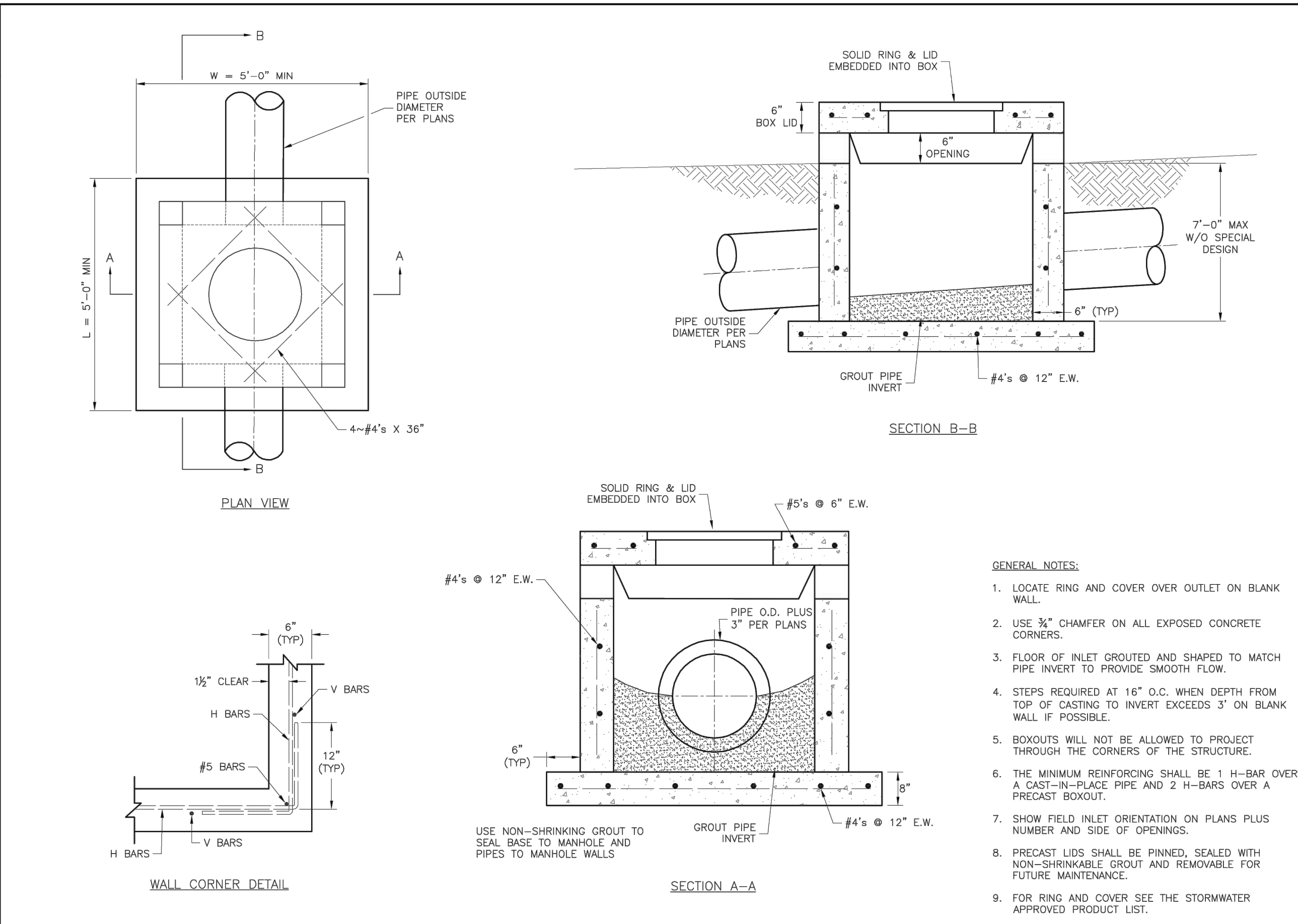
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Revision No. Description Date

Project No. B18-0330 Date 12.07.18 Drawn RLK

Drawing No. **C10.0**
STANDARD DETAILS

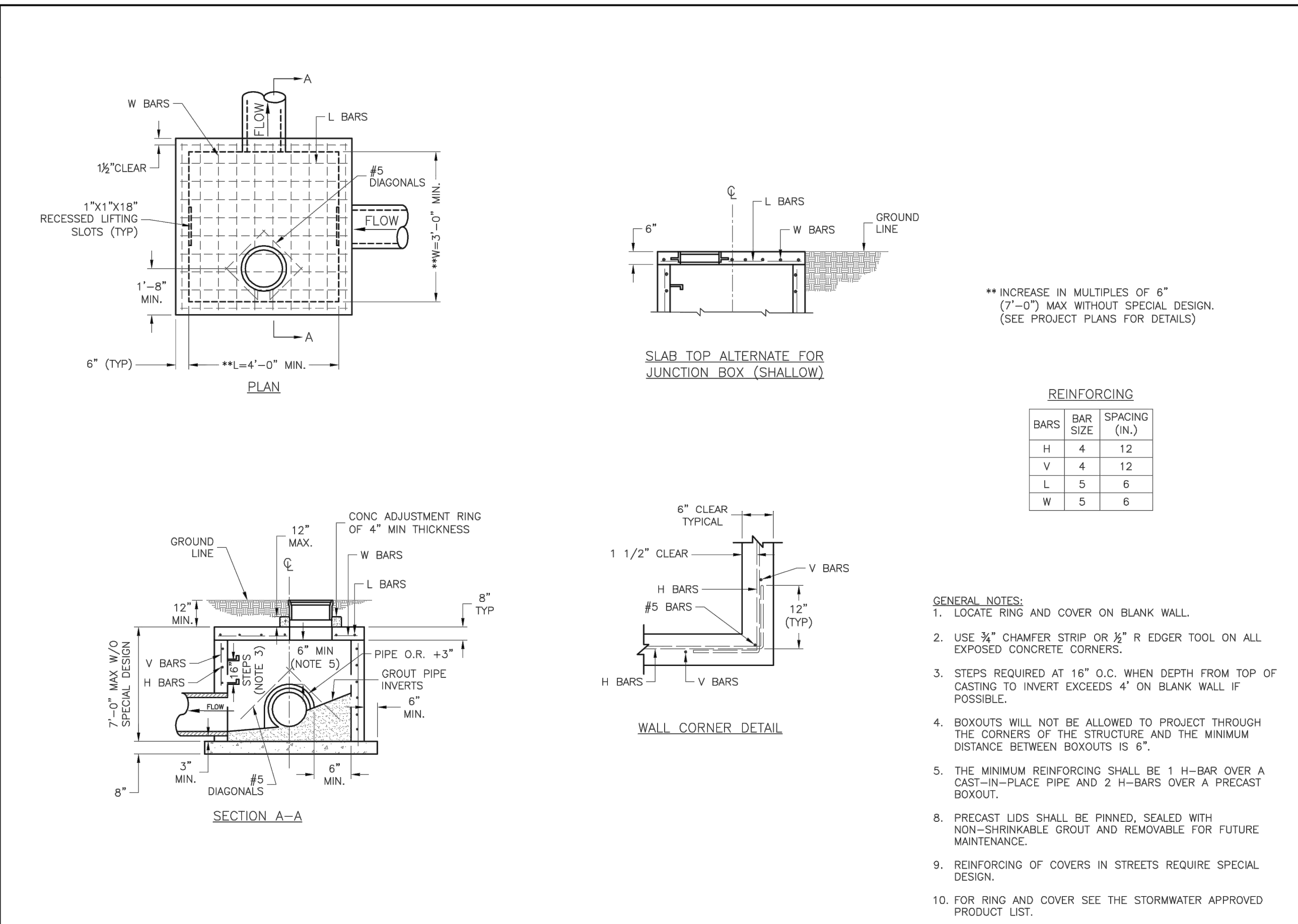
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LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64663

STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO
FIELD INLET DETAIL

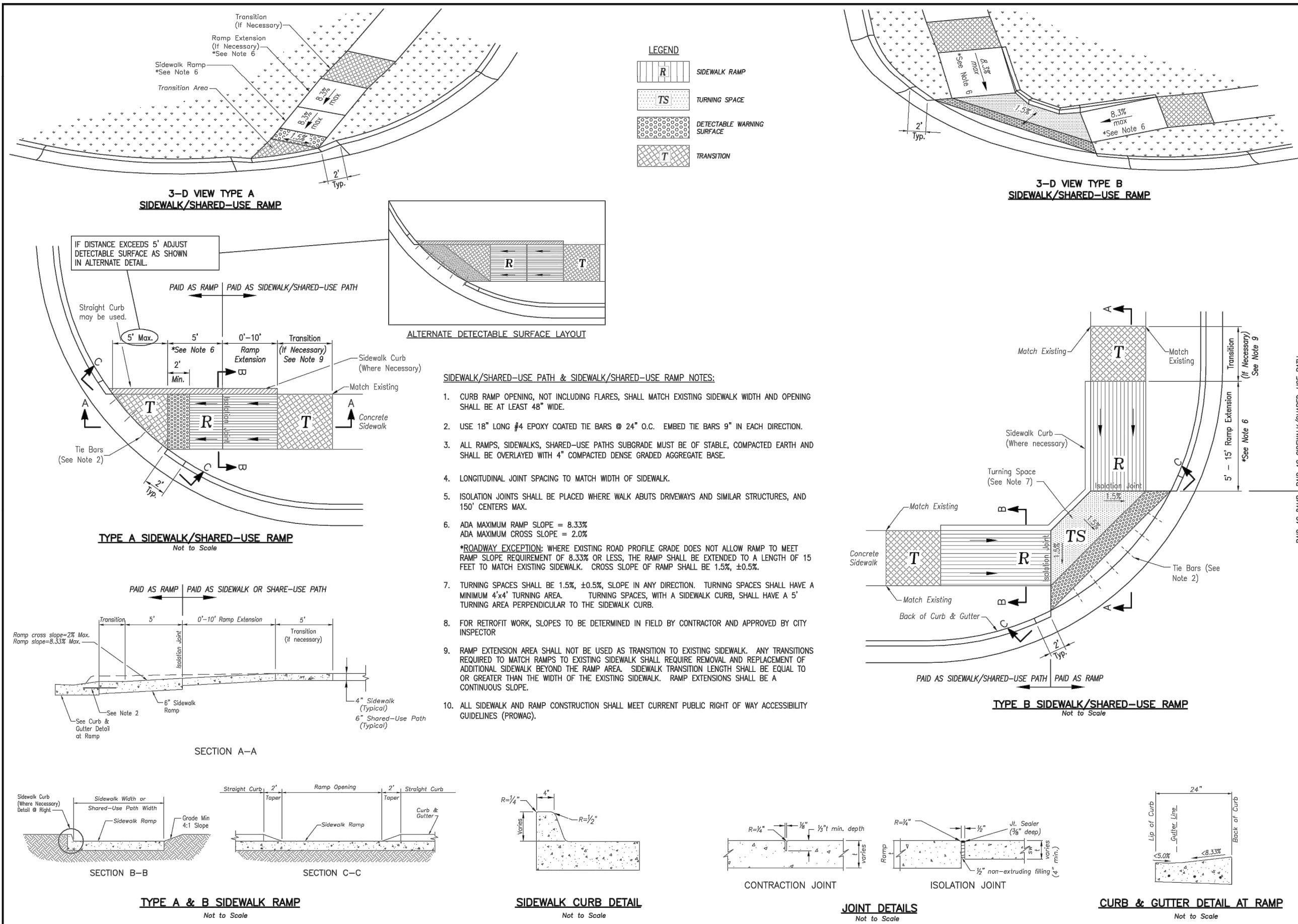
Drawn By: MJP
Checked By: SL
Date: 04/27
Proj #: STM-2



LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64663

STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO
JUNCTION BOX DETAIL

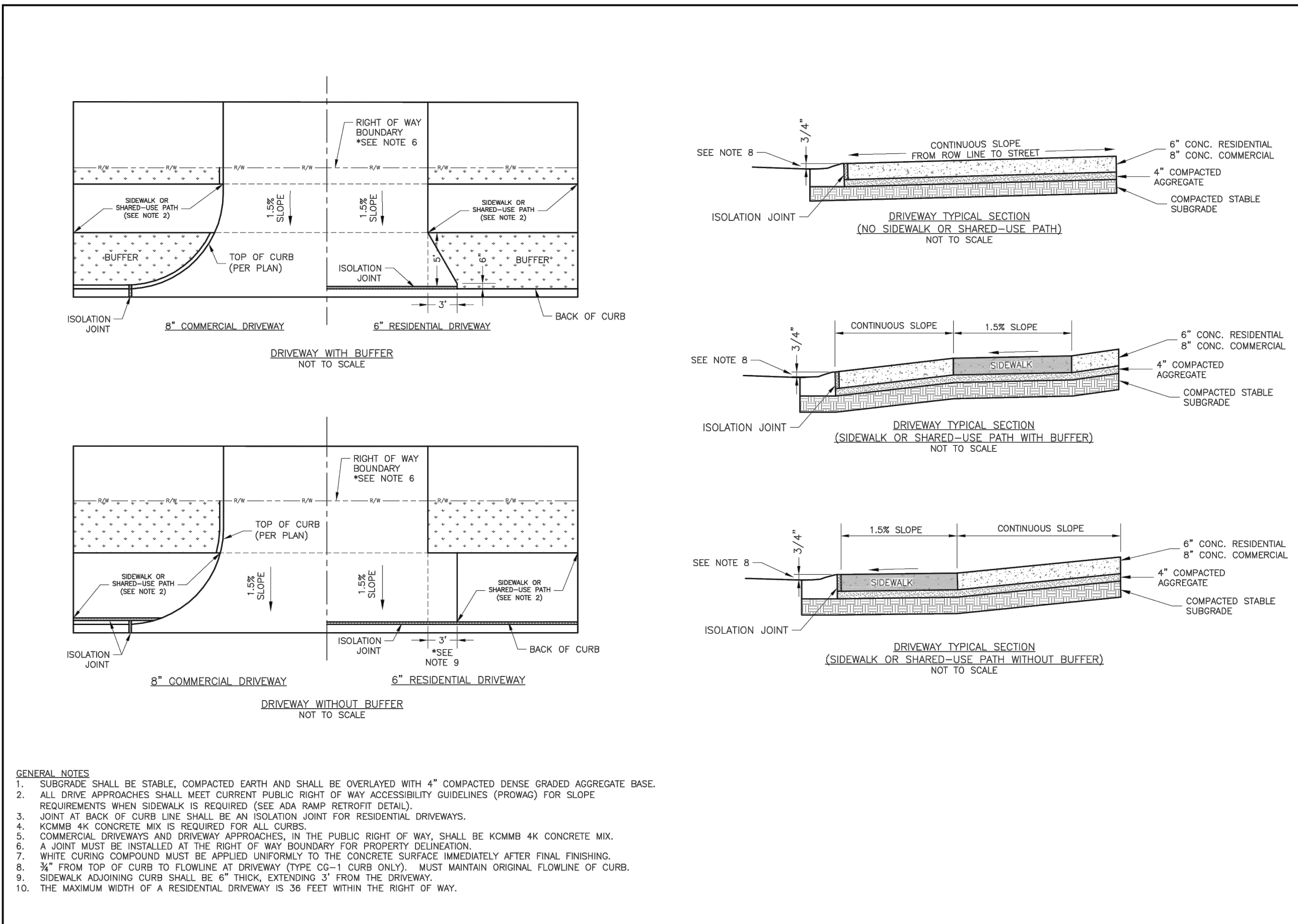
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Checked By: SL
Date: 04/27
Proj #: STM-3



LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64663

STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO
ADA RAMP RETROFIT DETAIL

Drawn By: MJP
Checked By: SL
Date: 04/27
Proj #: GEN-3A



LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64663

STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO
DRIVEWAY DETAIL

Drawn By: MJP
Checked By: SL
Date: 04/27
Proj #: GEN-1

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1629 Walnut
Kansas City, MO 64108 816.300.0300

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Mid-Continent Public Library
CONSTRUCTION DOCUMENT PLANS FOR
EAST LEE'S SUMMIT BRANCH
2240 SE BLUE PARKWAY
LEE'S SUMMIT, MO 64063
JACKSON COUNTY
PACKAGE 04

Engineer of Record
TERRY M. PARSONS
NUMBER
PE-2018010505
2-07-2018
PROFESSIONAL ENGINEER

Terry M Parsons, Engineer MO PE-2018010505

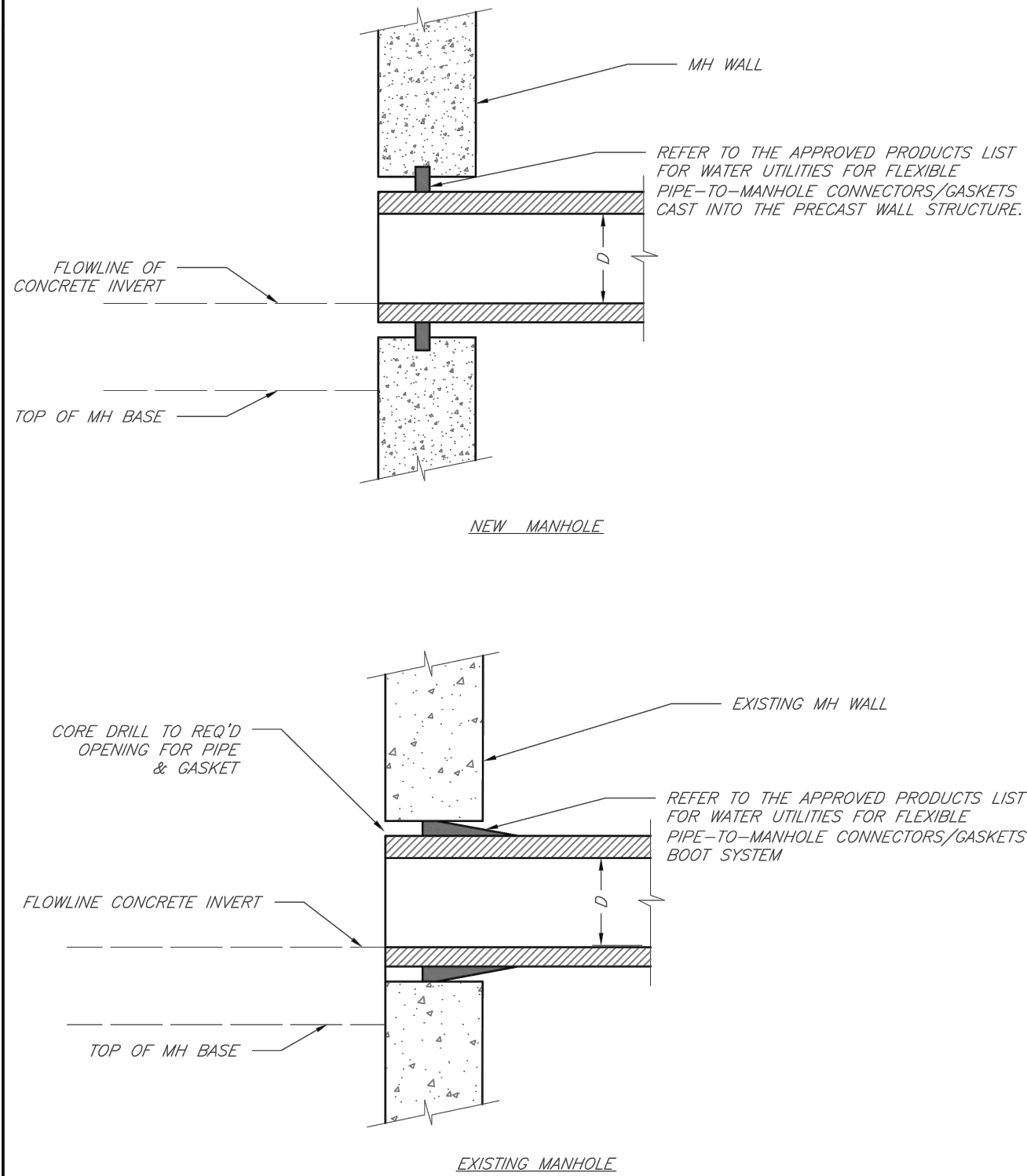
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Overland Park, KS 66213
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FAX 913.381.1174
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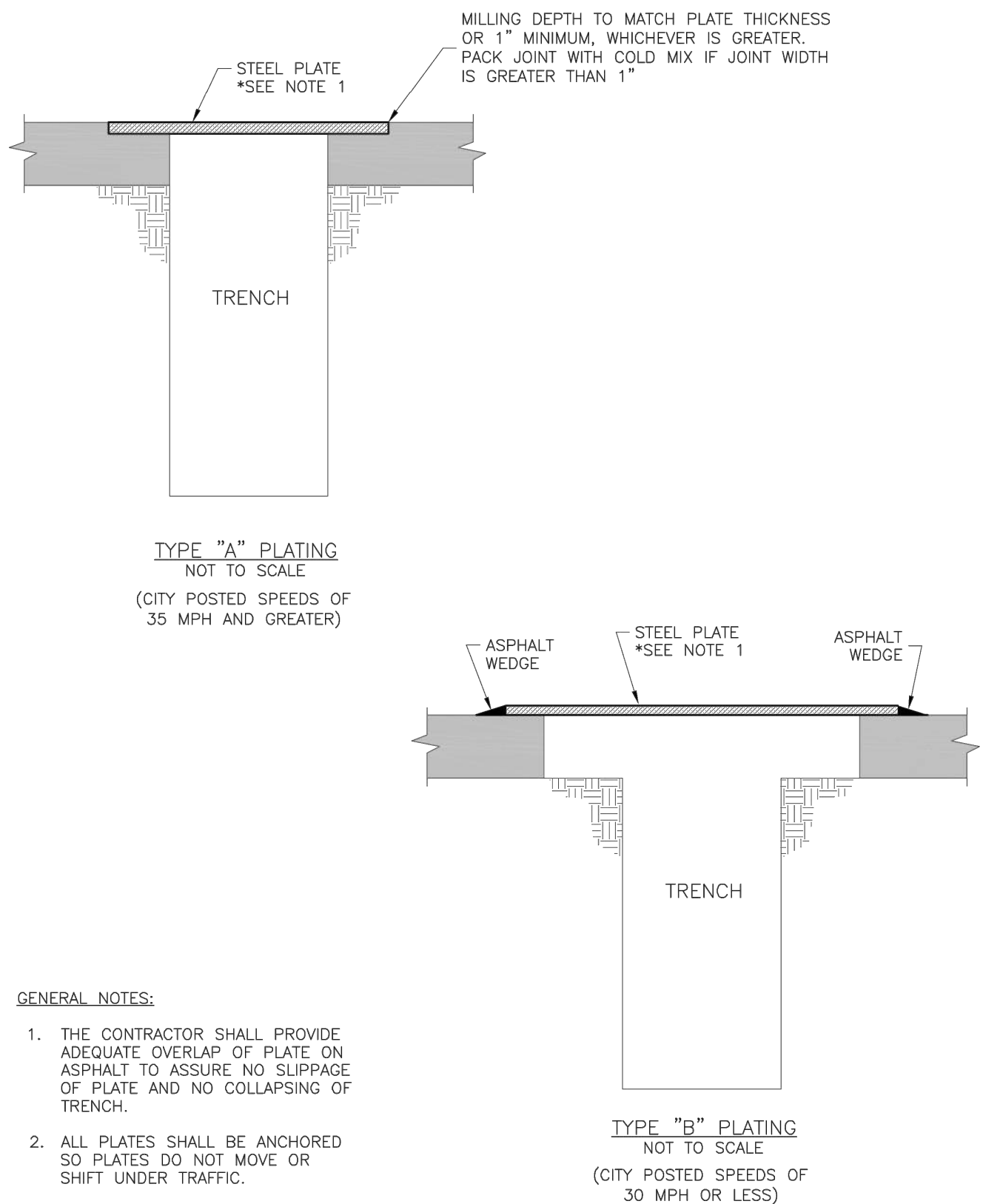
Revision No. Description Date

Project No. B18-0330 Date 12.07.18 Drawn RLK

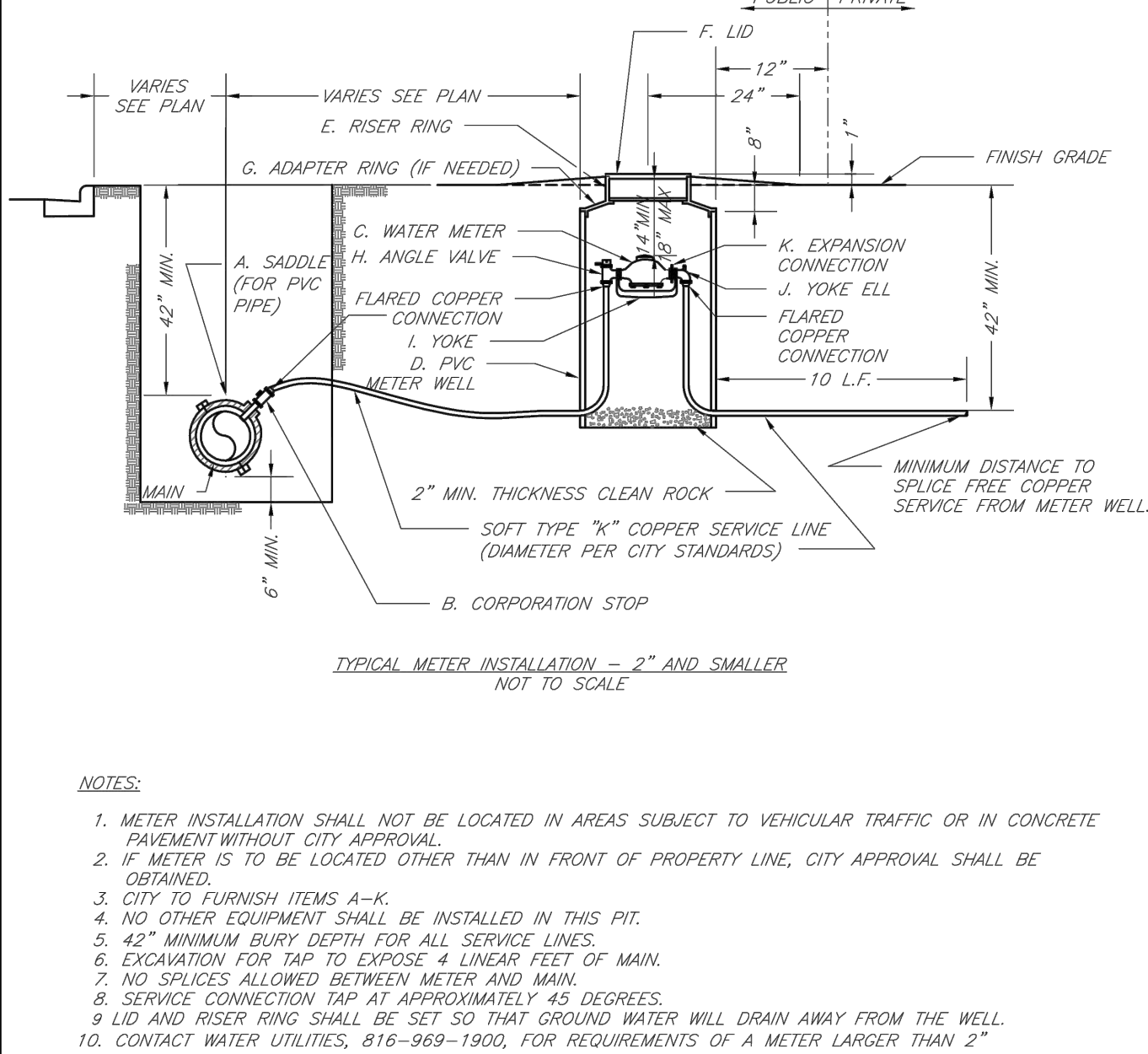
Drawing No. **C10.3**
STANDARD DETAILS



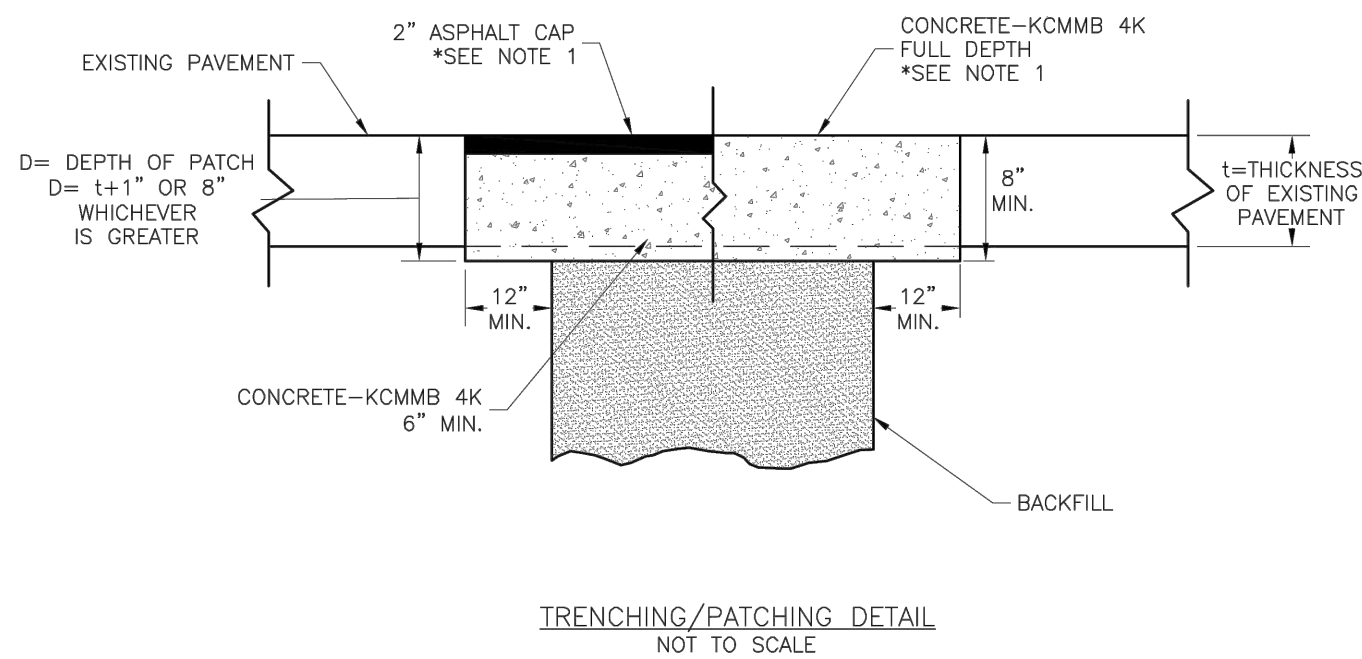
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		Drawn By: JN
	Checked By: DL	
	FILE: SAN-5	
	Rev: 1/14	
	Rev:	
MANHOLE WALL CONNECTIONS		



	<div>LEE'S SUMMIT MISSOURI</div> <div>PUBLIC WORKS ENGINEERING DIVISION 220 SE GREEN STREET LEE'S SUMMIT, MO 64063</div>	Date: 04/17
		Drawn By: MJF
		Checked By: DL
	TRENCHING PLATE DETAIL	
	GEN-6	



	LEE'S SUMMIT MISSOURI PUBLIC WORKS ENGINEERING DIVISION 220 SE GREEN STREET LEE'S SUMMIT, MO 64063	Date: 02/13
		Drawn By: JN
		Checked By: DL
		FILE: WAT-11
		Rev: 1/14
	SERVICE CONNECTION/METER WELL	

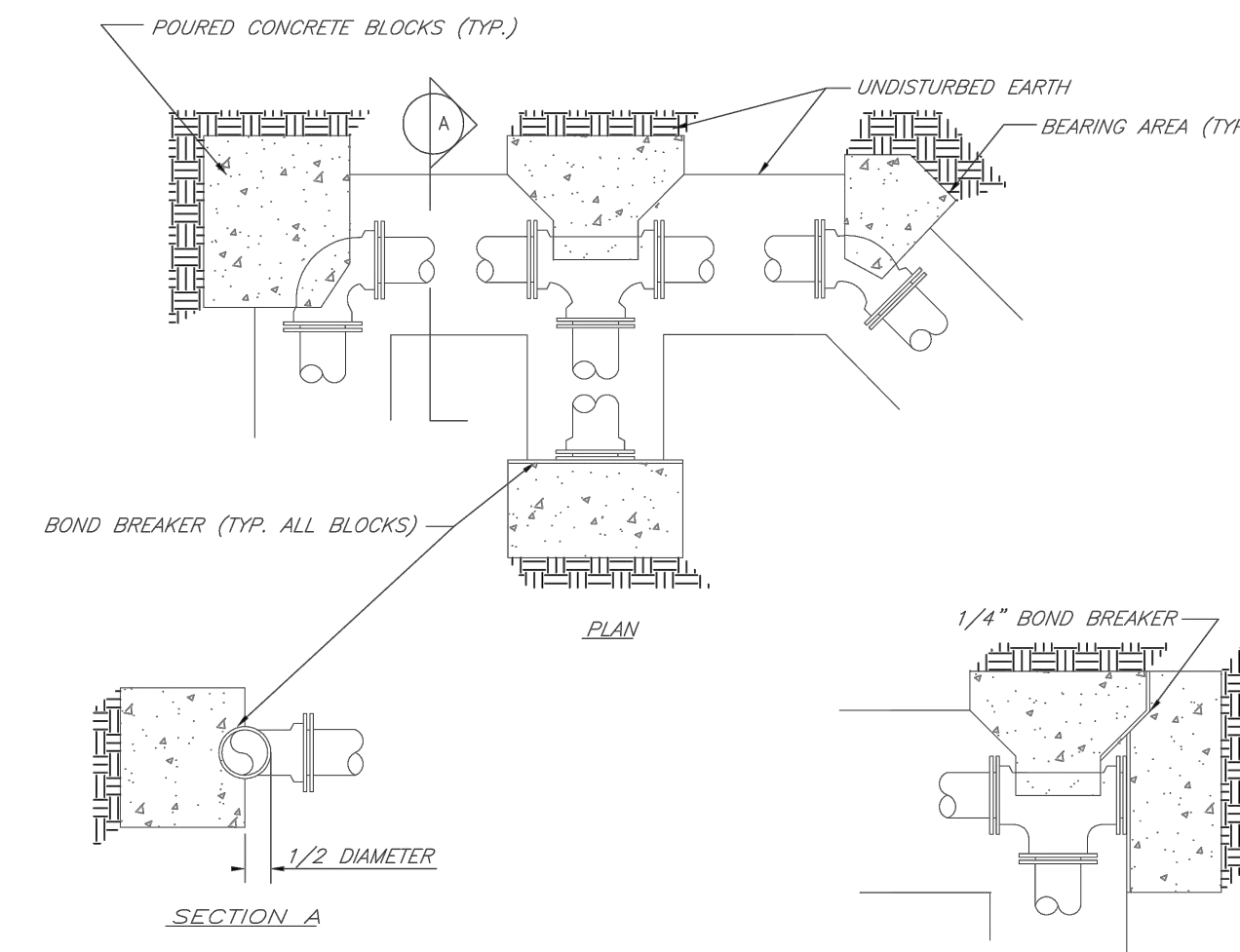


	<div>LEE'S SUMMIT MISSOURI</div> <div>PUBLIC WORKS ENGINEERING DIVISION 220 SE GREEN STREET LEE'S SUMMIT, MO 64063</div>	Date: 04/17
		Drawn By: MJF
		Checked By: DL
	TRENCHING/PATCHING ROADWAYS DETAIL	
	GEN-5	

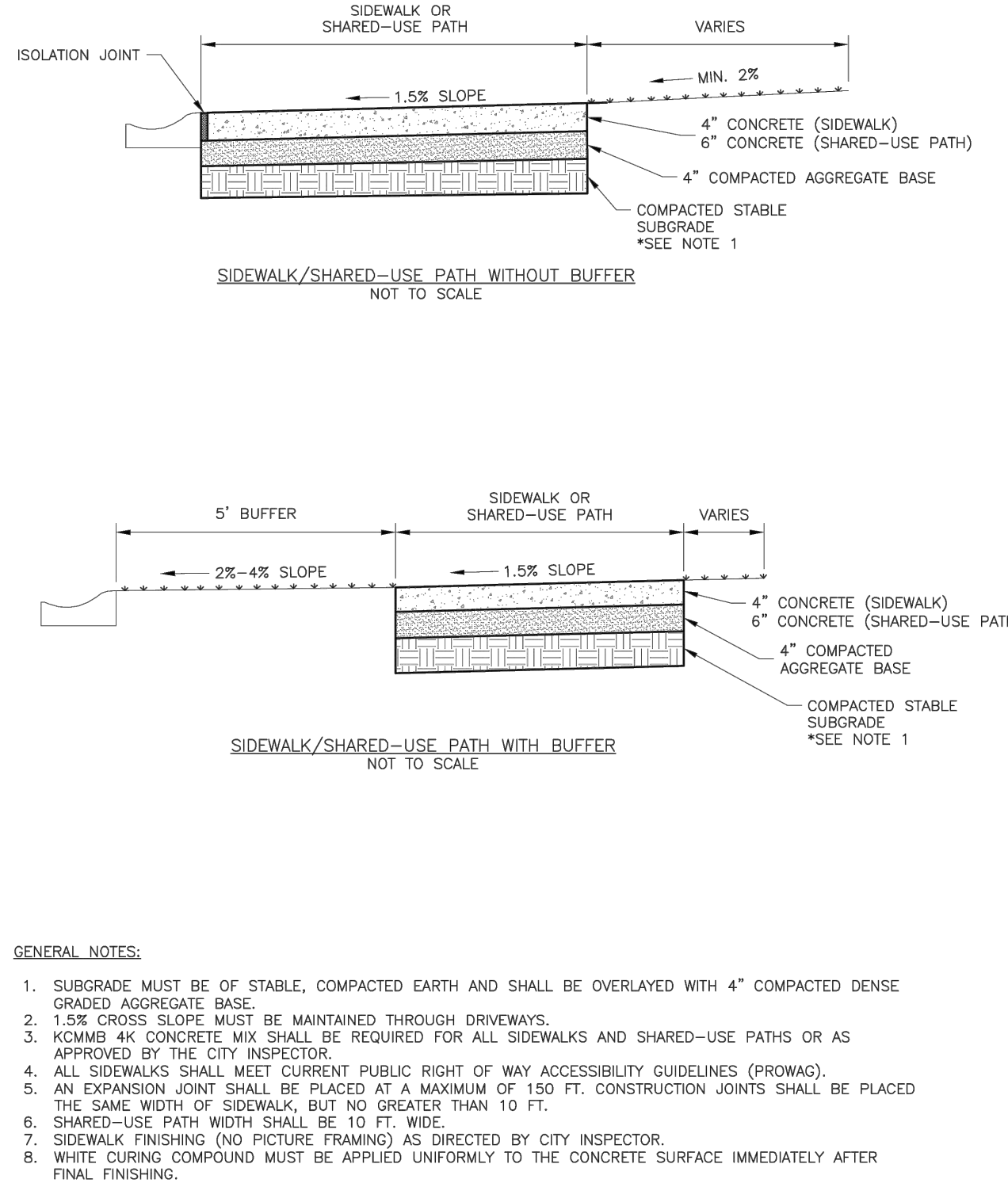
REQUIRED CONCRETE BEARING AREA (SQUARE FEET - SF)					
NOM. DIA. (INCHES)	TEE, PLUG	BEND	BEND	BEND	BEND
6	4.7	8.7	4.0	4.0	4.0
8	8.4	11.8	6.4	4.0	4.0
10	13.1	18.5	10.0	5.1	4.0
12	18.8	26.7	14.4	7.4	4.0
14	25.7	36.3	19.6	10.0	5.0
16	33.5	47.4	25.6	13.1	6.8
18	42.4	REST. JT.	32.5	16.3	8.3
20	REST. JT.	REST. JT.	40.1	20.4	10.3
24	REST. JT.	REST. JT.	REST. JT.	29.4	14.8

NOTES:

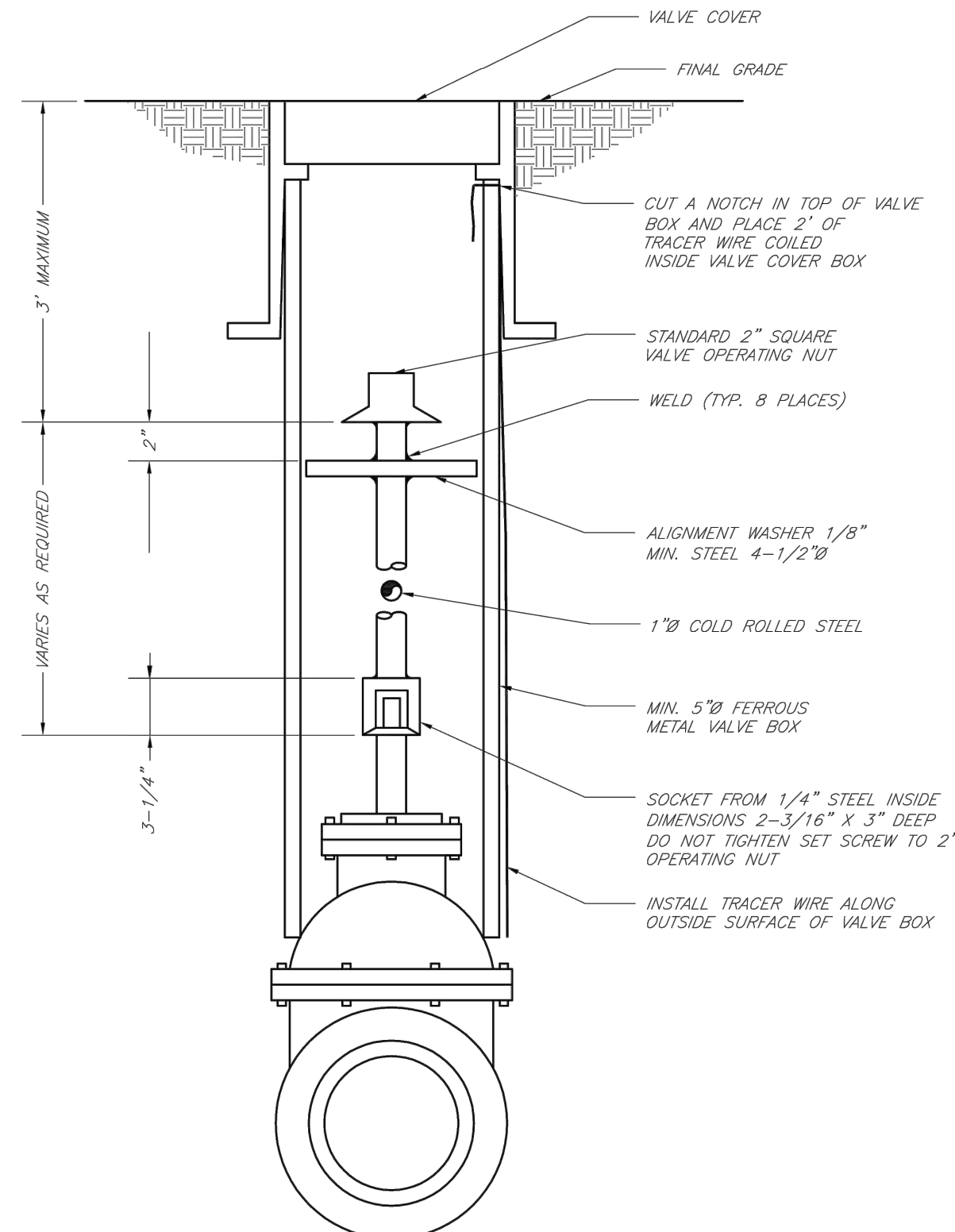
- ALL BENDS WITHOUT RESTRAINED JOINTS SHALL HAVE CONCRETE THRUST BLOCKS INSTALLED FOR RESTRAINT.
- MEGA LUGS MAY BE USED ONLY IN CONJUNCTION WITH CONCRETE THRUST BLOCKING.
- BEARING AREA MUST BE AGAINST UNDISTURBED SOIL.
- DO NOT COVER JOINTS OR BOLTS (WHERE APPLICABLE) WITH CONCRETE.



	LEE'S SUMMIT MISSOURI <small>PUBLIC WORKS ENGINEERING DIVISION 220 SE GREEN STREET LEE'S SUMMIT, MO 64063</small>	Date: 02/13
		Drawn By: JN
		Checked By: DL
		FILE: WAT-1
		Rev: 1/14
		Rev.
HORIZONTAL THRUST BLOCKS		



	<div>LEE'S SUMMIT MISSOURI</div> <div>PUBLIC WORKS ENGINEERING DIVISION 220 SE GREEN STREET LEE'S SUMMIT, MO 64063</div>	Date: 04/17
		Drawn By: MJF
		Checked By: DL
		FILE: GEN-2
		Rev: 1/14
SIDEWALK/SHARED-USE PATH DETAIL		GEN-2



	LEE'S SUMMIT MISSOURI PUBLIC WORKS ENGINEERING DIVISION 220 SE GREEN STREET LEE'S SUMMIT, MO 64063	Date: 02/13
		Drawn By: JN
	Checked By: DL	
	FILE: WAT-9	
	Rev: 1/14	
	Rev:	
VALVE STEM EXTENSION AND VALVE BOX		

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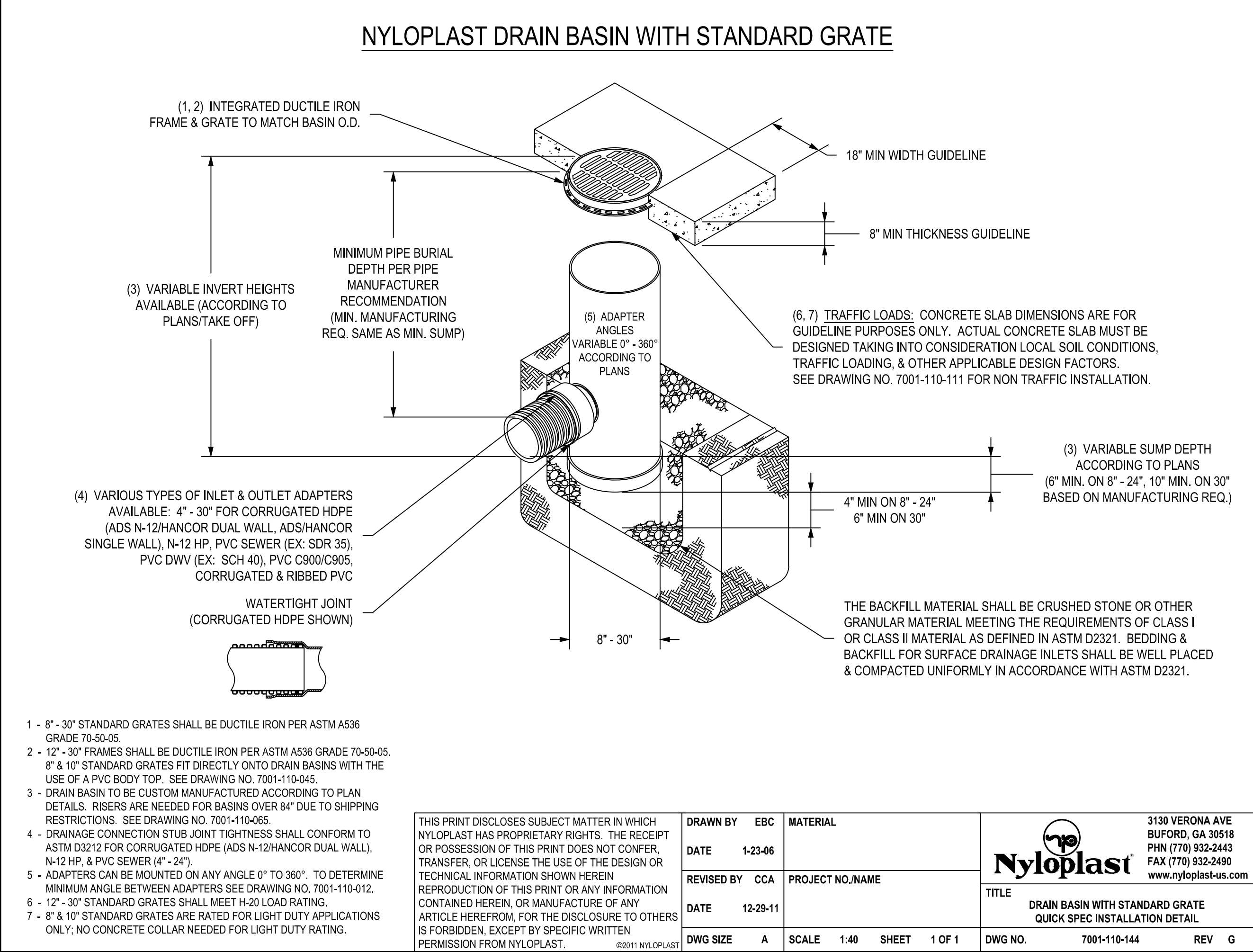
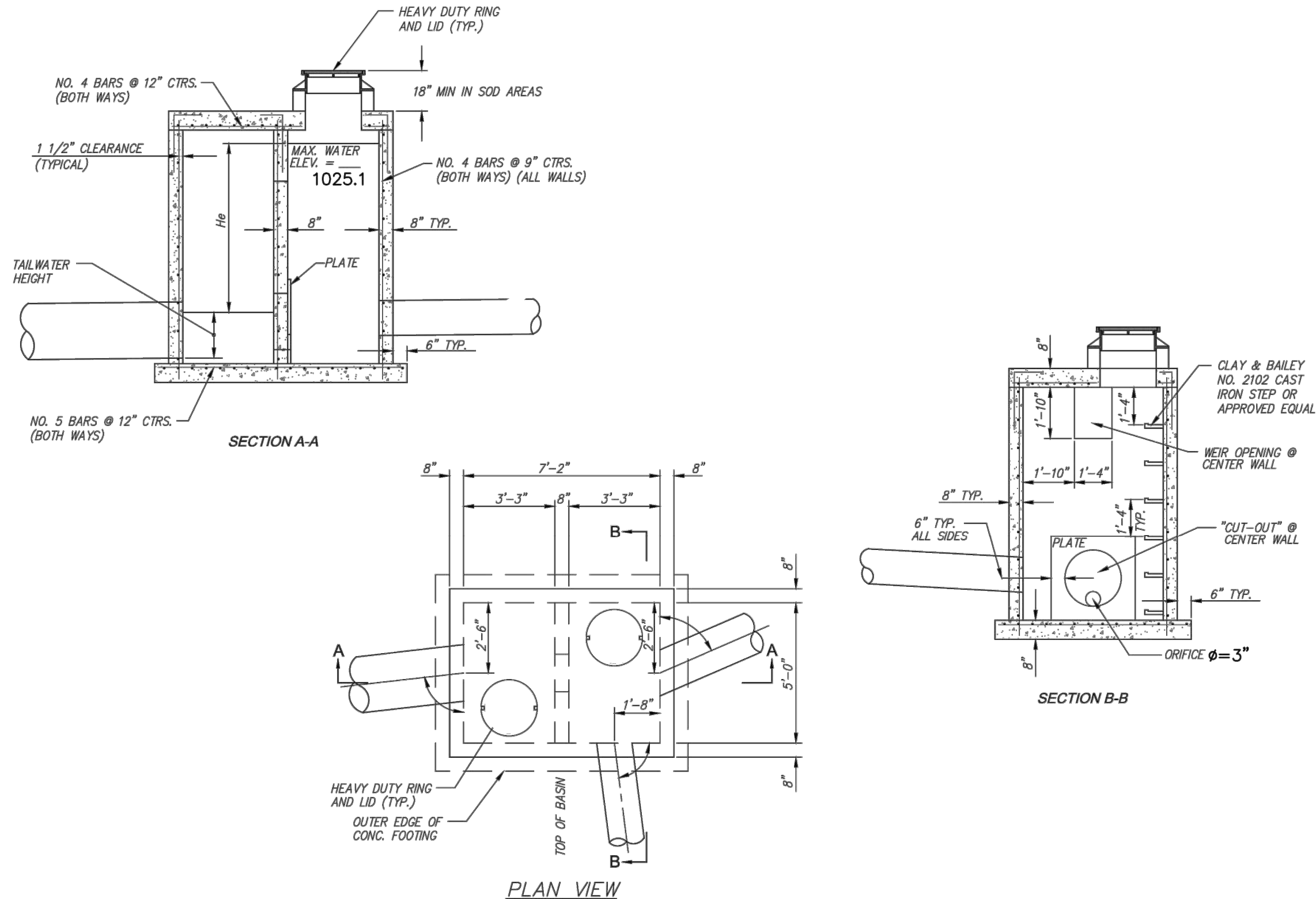
Terry M Parsons, Engineer MO PE-2018010505

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Revision No. Description Date

Project No. B18-0330 Date 12.07.18 Drawn RLK

Drawing No. **C10.5**
STANDARD DETAILS



Section 2721

Engineered Surface Drainage Products

GENERAL

PVC surface drainage inlets shall include the drain basin type as indicated on the contract drawing and referenced within the contract specifications. The ductile iron grates for each of these fittings are to be considered an integral part of the surface drainage inlet and shall be furnished by the same manufacturer. The surface drainage inlets shall be as manufactured by Nyloplast a division of Advanced Drainage Systems, Inc., or prior approved equal.

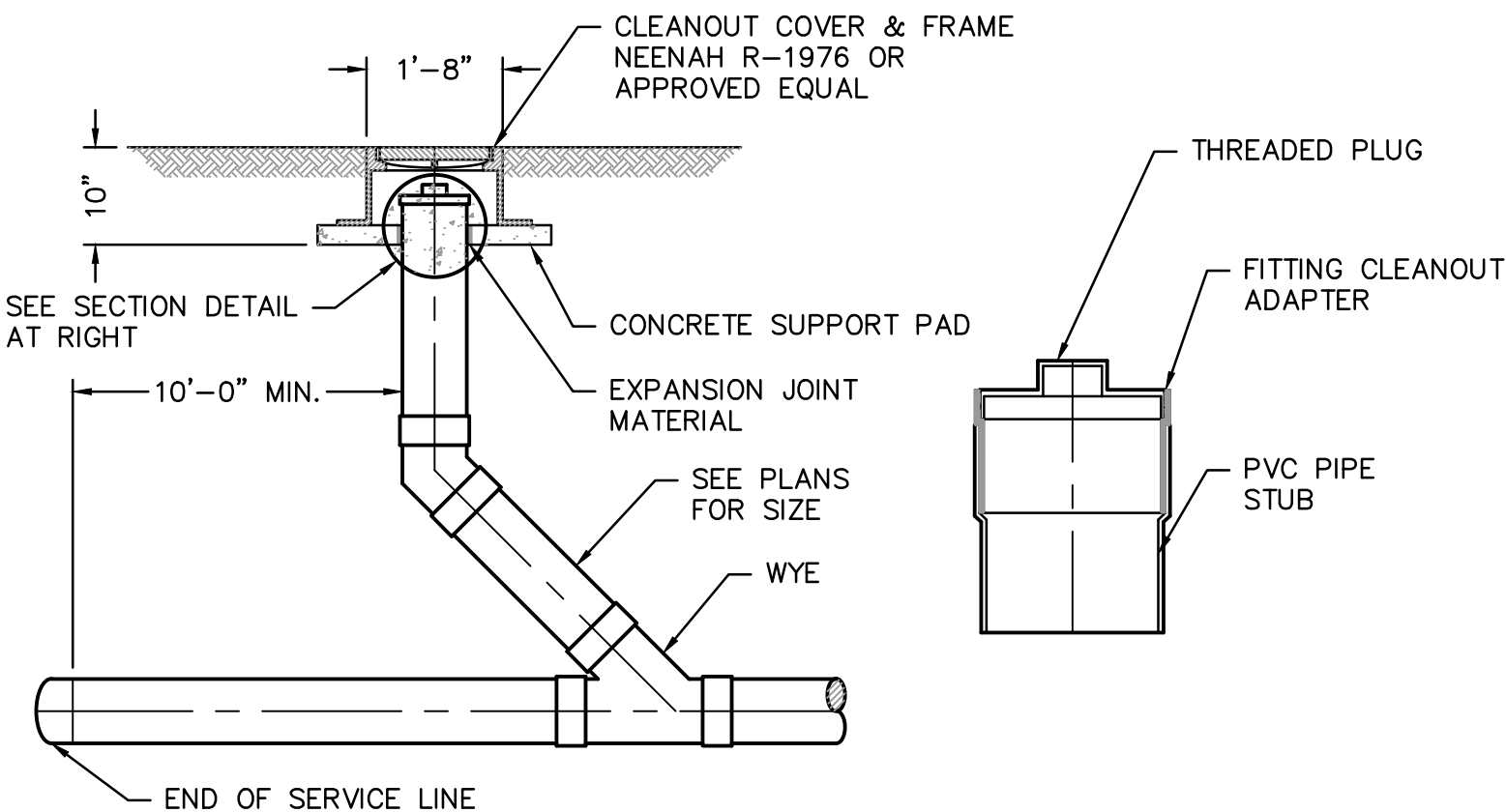
MATERIALS

The drain basins required for this contract shall be manufactured from PVC pipe stock, utilizing a thermoforming process to reform the pipe stock to the specified configuration. The drainage pipe connection stubs shall be manufactured from PVC pipe stock and formed to provide a watertight connection with the specified pipe system. This joint tightness shall conform to ASTM D3212 for joints for drain and sewer plastic pipe using flexible elastomeric seals. The flexible elastomeric seals shall conform to ASTM F477. The pipe bell spigot shall be joined to the main body of the drain basin or catch basin. The raw material used to manufacture the pipe stock that is used to manufacture the main body and pipe stubs of the surface drainage inlets shall conform to ASTM D1784 cell class 12454.

The grates and frames furnished for all surface drainage inlets shall be ductile iron for sizes 8", 10", 12", 15", 18", 24" and 30" and shall be made specifically for each basin so as to provide a round bottom flange that closely matches the diameter of the surface drainage inlet. Grates for drain basins shall be capable of supporting various wheel loads as specified by Nyloplast. 12" and 15" square grates will be hinged to the frame using pins. Ductile iron used in the manufacture of the castings shall conform to ASTM A536 grade 70-50-05. Grates and covers shall be provided painted black.

INSTALLATION

The specified PVC surface drainage inlet shall be installed using conventional flexible pipe backfill materials and procedures. The backfill material shall be crushed stone or other granular material meeting the requirements of class 1 or class 2 material as defined in ASTM D2321. Bedding and backfill for surface drainage inlets shall be well placed and compacted uniformly in accordance with ASTM D2321. The drain basin body will be cut at the time of the final grade. No brick, stone or concrete block will be required to set the grate to the final grade height. For load rated installations, a concrete slab shall be poured under and around the grate and frame. The concrete slab must be designed taking into consideration local soil conditions, traffic loading, and other applicable design factors. For other installation considerations such as migration of fines, ground water, and soft foundations refer to ASTM D2321 guidelines.



ONE-WAY WYE CLEANOUT DETAIL
NOT TO SCALE

**SAPP
DESIGN
ARCHITECTS**

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Springfield, MO 65804 417.877.9600

Sapp Design Associates Architects, P.C.
Missouri State Certificate of Authority #000607

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Kansas City, MO 64108 816.300.0300

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LEE'S SUMMIT, MO 64063
JACKSON COUNTY

PACKAGE
04



Terry M Parsons, Engineer MO PE-2018010505

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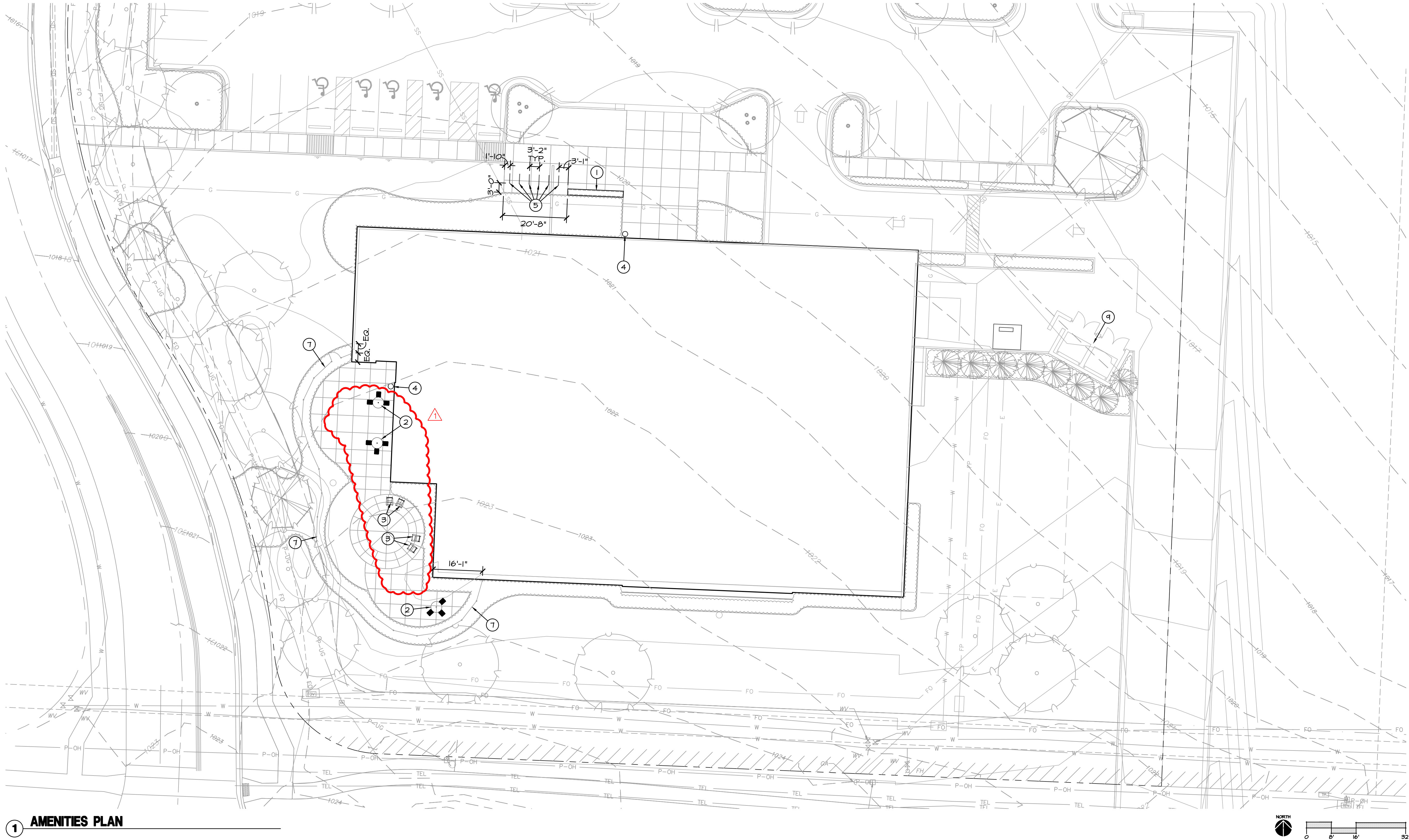
Revision No.	Description	Date
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Project No.	Date	Drawn
B18-0330	12.07.18	RLK

Drawing No.

C10.6

STANDARD DETAILS



1 AMENITIES PLAN

GENERAL NOTES:

- 1. THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO ALL APPLICABLE STANDARDS AND SPECIFICATIONS OF THE CITY OF LEE'S SUMMIT, MISSOURI IN CURRENT USAGE. ALL STANDARDS NOT COVERED BY THE CITY SHALL BE AFWA STANDARDS IN CURRENT USAGE UNLESS OTHERWISE NOTED.
- 2. THE UTILITY LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE ONLY. THE UTILITY INFORMATION IS NOT MEANT TO BE ALL INCLUSIVE. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION TO PROVIDE NON-INTERUPTION OF SERVICE, TO ENSURE PROPER CLEARANCES, AND TO AVOID DAMAGE THERETO.
- 3. CONTRACTOR SHALL, BY HIS OWN INVESTIGATION, AND PRIOR TO COMMENCING WORK, SATISFY HIMSELF AS TO, AND ACCEPT THE SITE CONDITIONS TO BE ENCOUNTERED.
- 4. WHERE THE NEW IMPROVEMENTS ABUT EXISTING IMPROVEMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MATCHING THE ELEVATION OF THE EXISTING IMPROVEMENTS UNLESS OTHERWISE NOTED.
- 5. THE CONTRACTOR SHALL PROVIDE A SECURE SITE TO PROTECT VEHICLES AND PEDESTRIANS FROM ACCIDENTAL FALLS AND HARM FROM THE CONSTRUCTION PROCESS.
- 6. CONTRACTOR SHALL BE RESPONSIBLE FOR DE-WATERING CONSTRUCTION AREAS IN ORDER TO PERMIT CONTINUATION OF THE WORK. ANY WATER ACCUMULATION SHALL BE REMOVED BY PUMPING.
- 7. CONTRACTOR IS RESPONSIBLE FOR ALL QUANTITIES OR MATERIALS AS SHOWN IN THESE PLANS. CONTRACTOR SHALL ACCOMMODATE ALL SLOPE AND GRADE CONDITIONS IN THEIR CALCULATION OF MATERIAL QUANTITIES FOR ALL WORK SHOWN ON THESE PLANS.
- 8. CONTRACTOR SHALL BE RESPONSIBLE FOR PEDESTRIAN AND VEHICULAR TRAFFIC CONTROL DURING CONSTRUCTION OPERATIONS. OWNER SHALL APPROVE MEASURES USED TO ALLOW TENANTS AND SHOPPERS PROPER ACCESS DURING CONSTRUCTION.

AMENITIES PLAN NOTES:

- 1. INSTALL SEAT WALL ; REF: 1/L400
- 2. INSTALL TABLE AND CHAIRS; REF: 2/L400
- 3. INSTALL CHAIR; REF: 3/L400
- 4. INSTALL TRASH RECEPTACLE; REF: 4/L400
- 5. INSTALL BIKE RACK; REF: 6/L400
- 6. BOLLARD; REF: CIVIL PLANS & C11
- 7. DECORATIVE FENCE; REF: 5/L400
- 8. BOOK DROP BOX (PROVIDED BY OTHERS)
- 9. TRASH ENCLOSURE; REF: CIVIL PLANS & C11

SAPP
DESIGN
ARCHITECTS

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Springfield, MO 65804 417.877.9600

Sapp Design Associates Architects, P.C.
Missouri State Certificate of Authority #000607

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Kansas City, MO 64108 816.300.0300

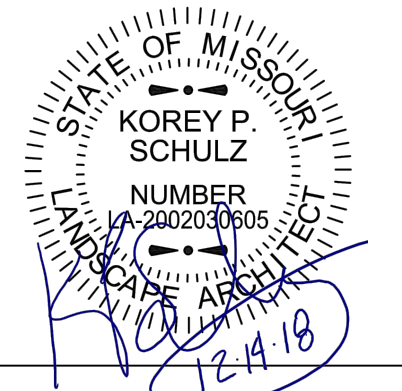
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The personal seal of the registered Architect or Engineer shall be the legal equivalent of his signature whenever & wherever used, and the owner of the seal shall authenticate this sheet and the specification sections pertaining to this sheet. Responsibility shall be disclaimed for all other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural project.

Mid-Continent Public Library
RENOVATIONS TO
EAST LEE'S SUMMIT BRANCH
150 NW Oldham Pkwy
Lee's Summit, Missouri 64081
Jackson County

100% CD
SUBMITTAL
PACKAGE
04

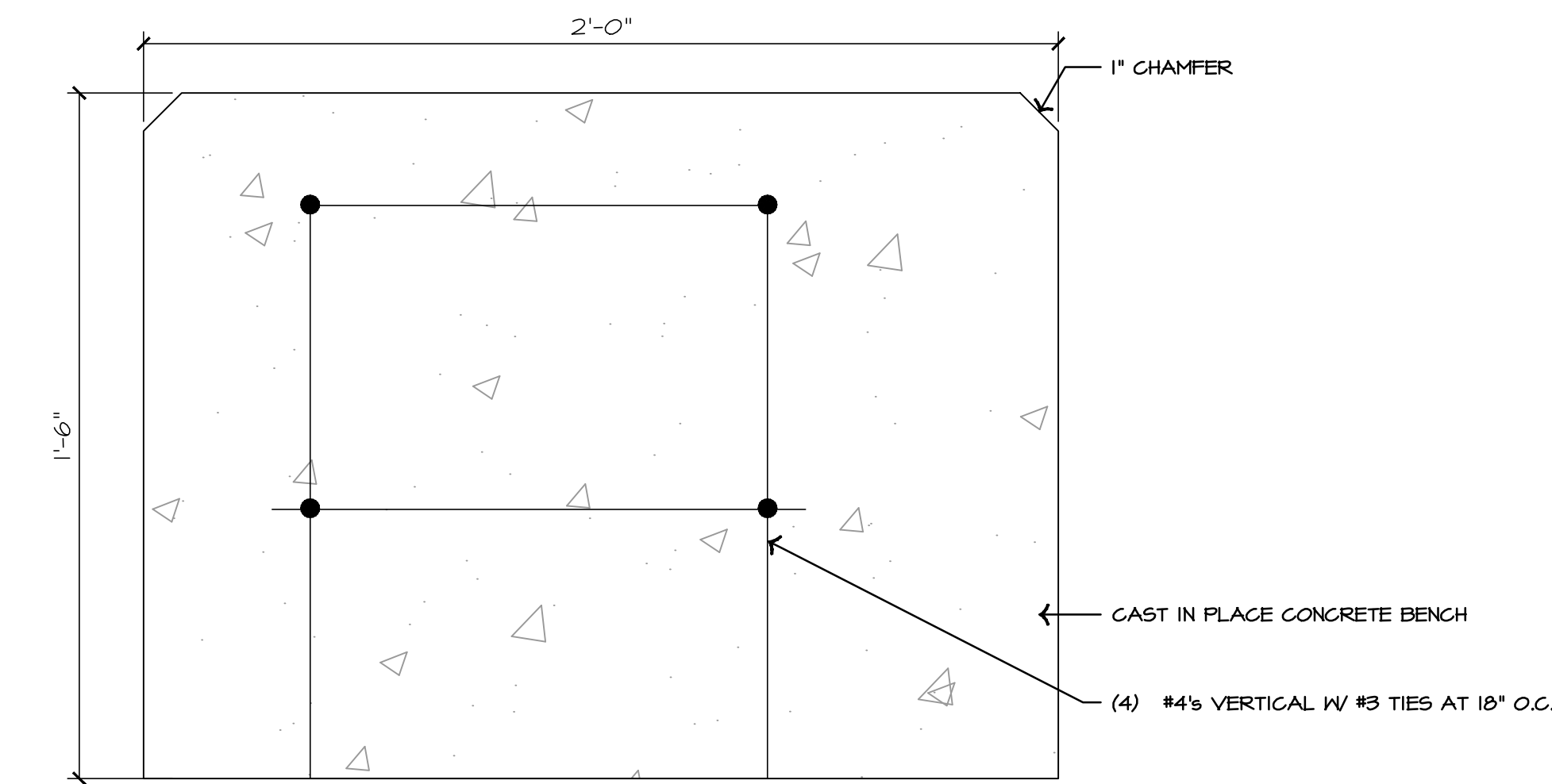


ochsner hare + hare
the olsson studio

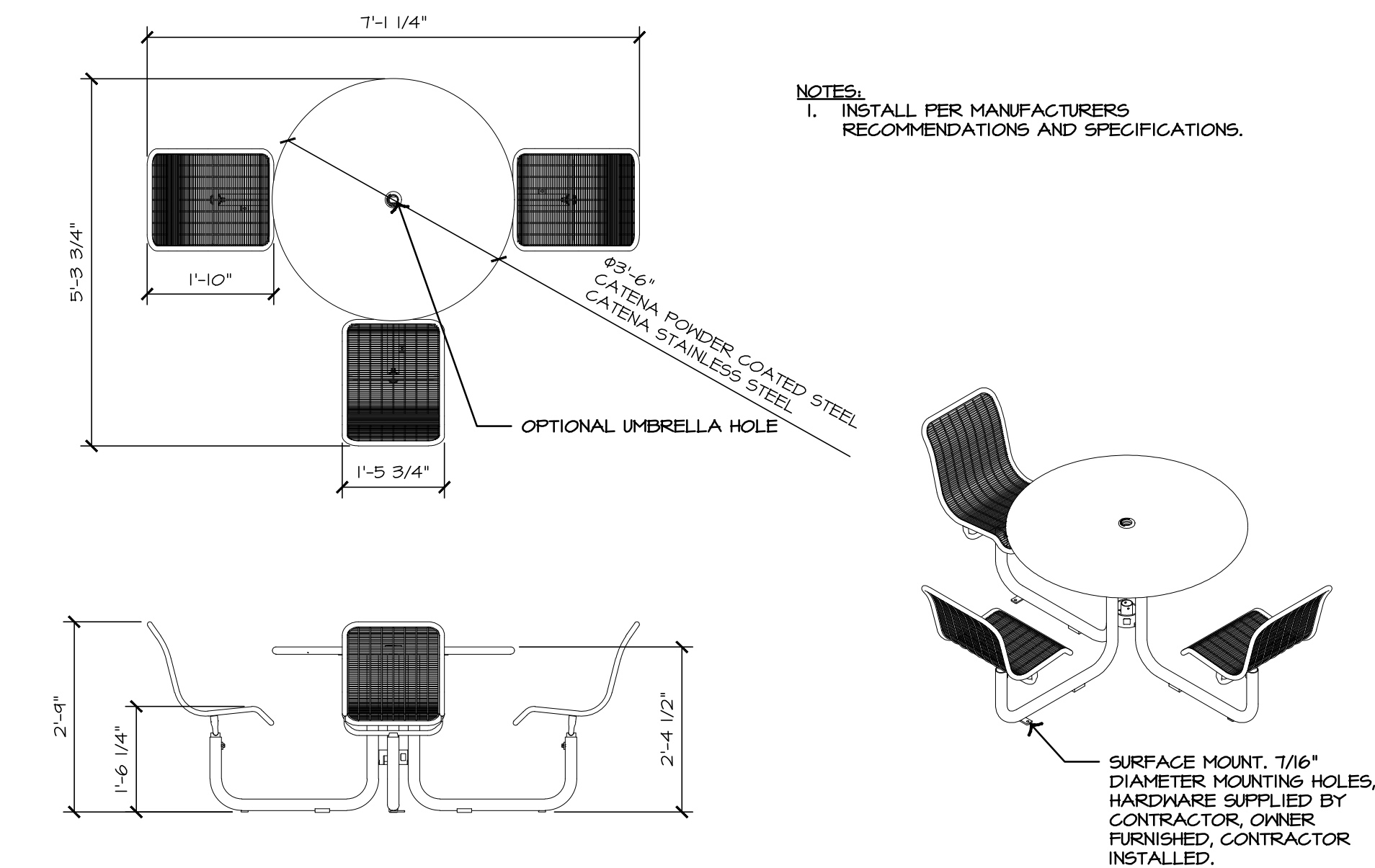
Revision No.	Description	Date
01	ASI 01	1/14/19

Project No.	Date	Drawn
016-1023	12-21-18	TG

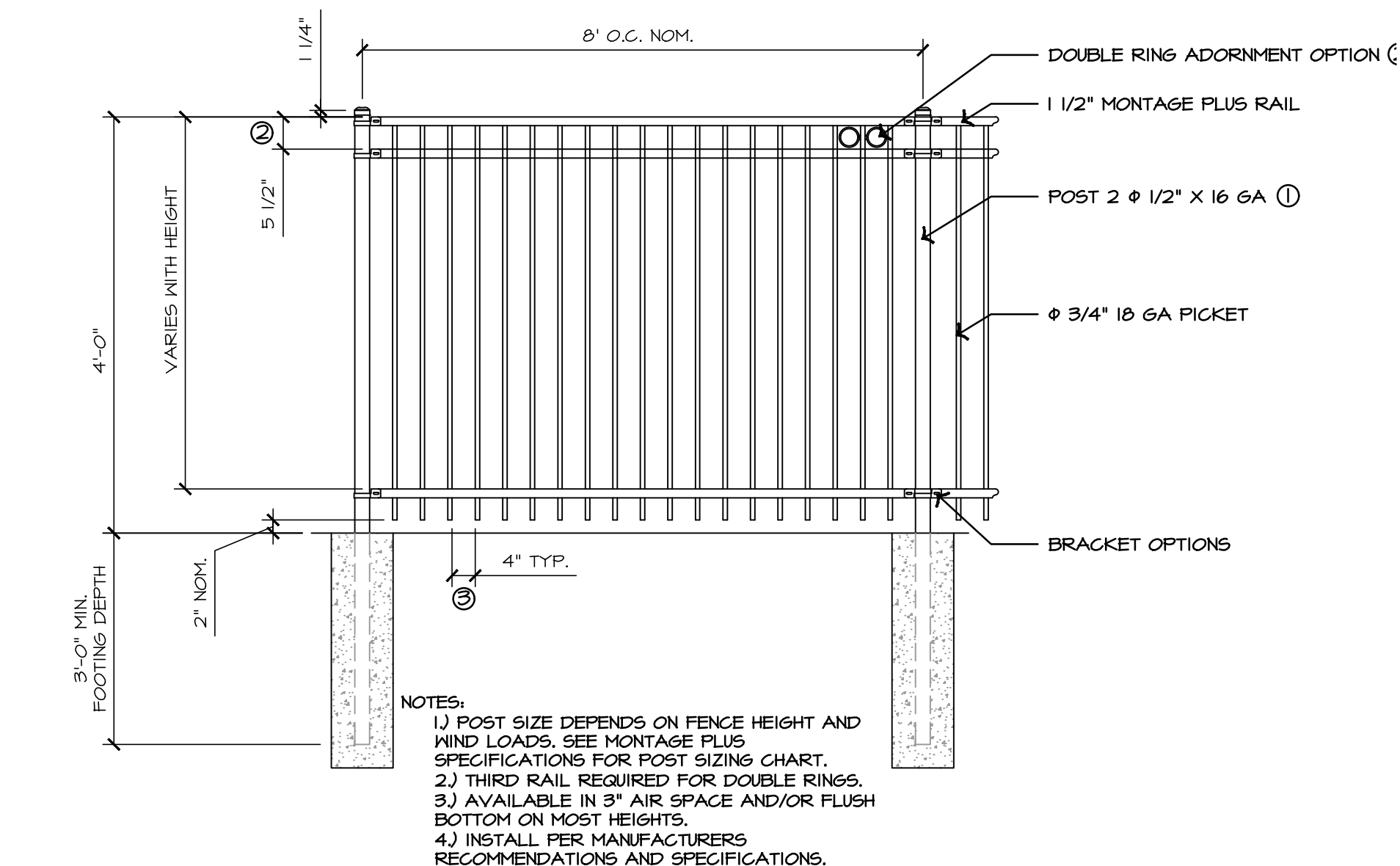
Drawing No.
L200
AMENITIES PLAN



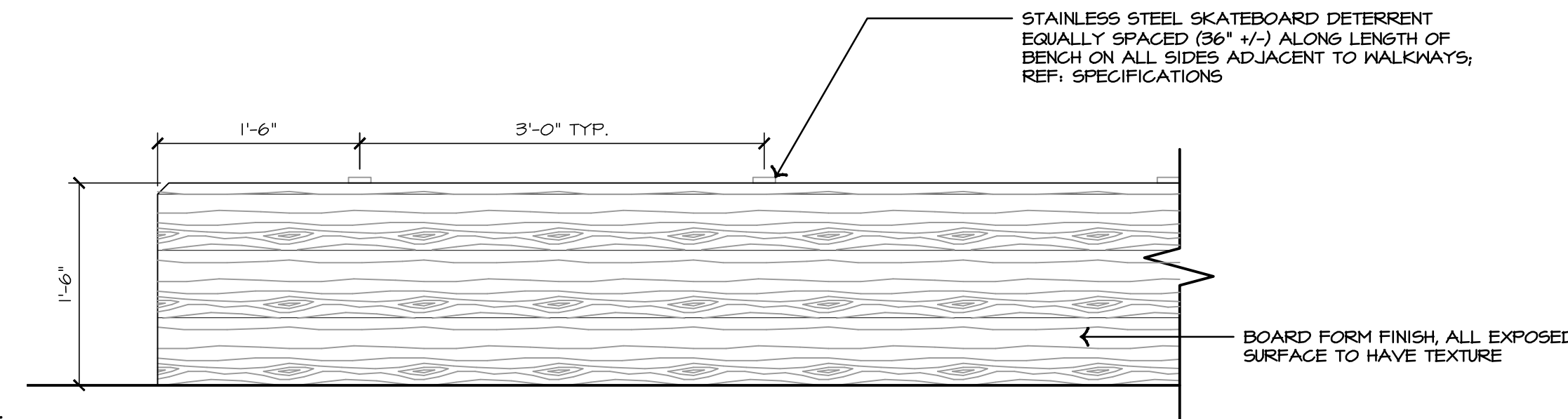
1 CAST IN PLACE CONCRETE BENCH



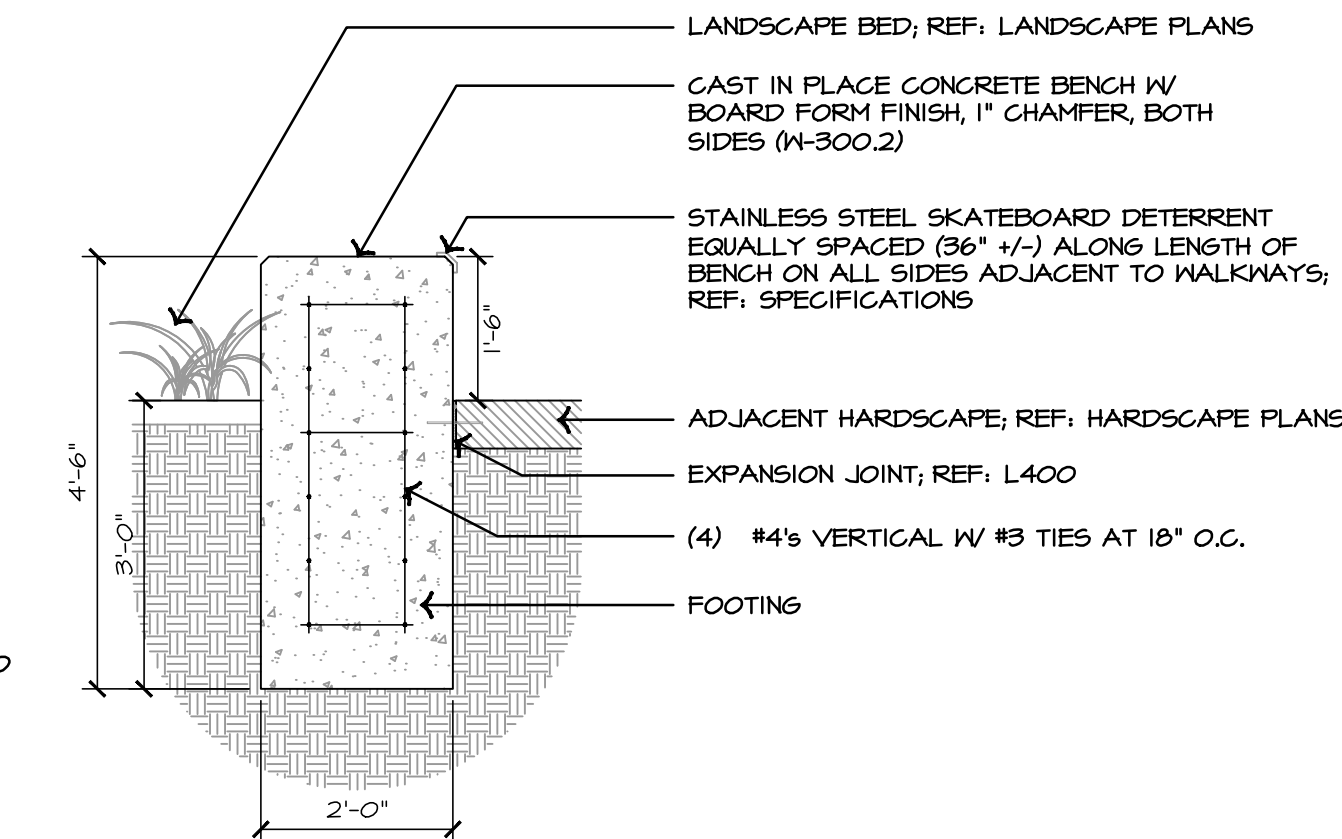
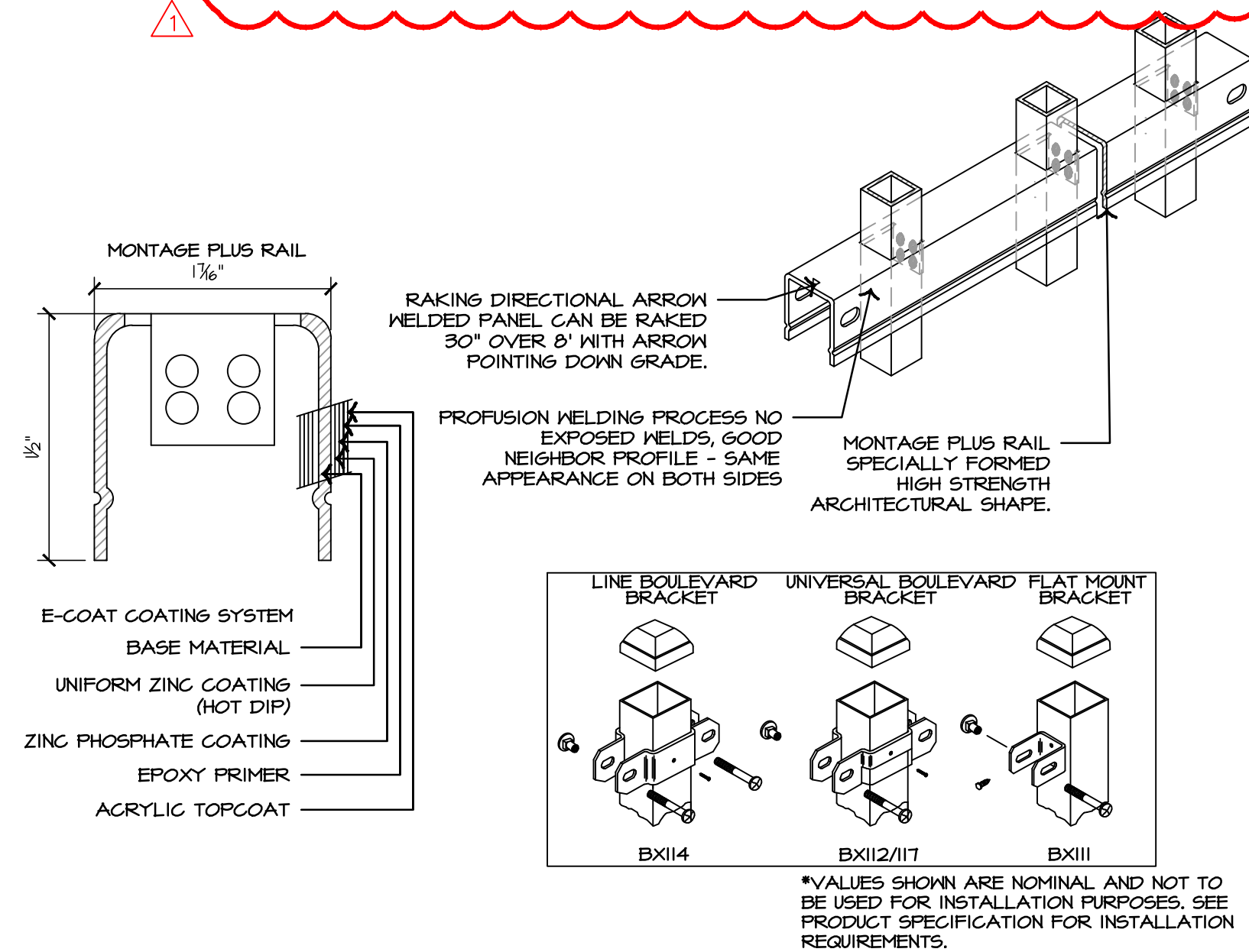
2 TYPICAL TABLE - LANDSCAPEFORMS CAROUSEL



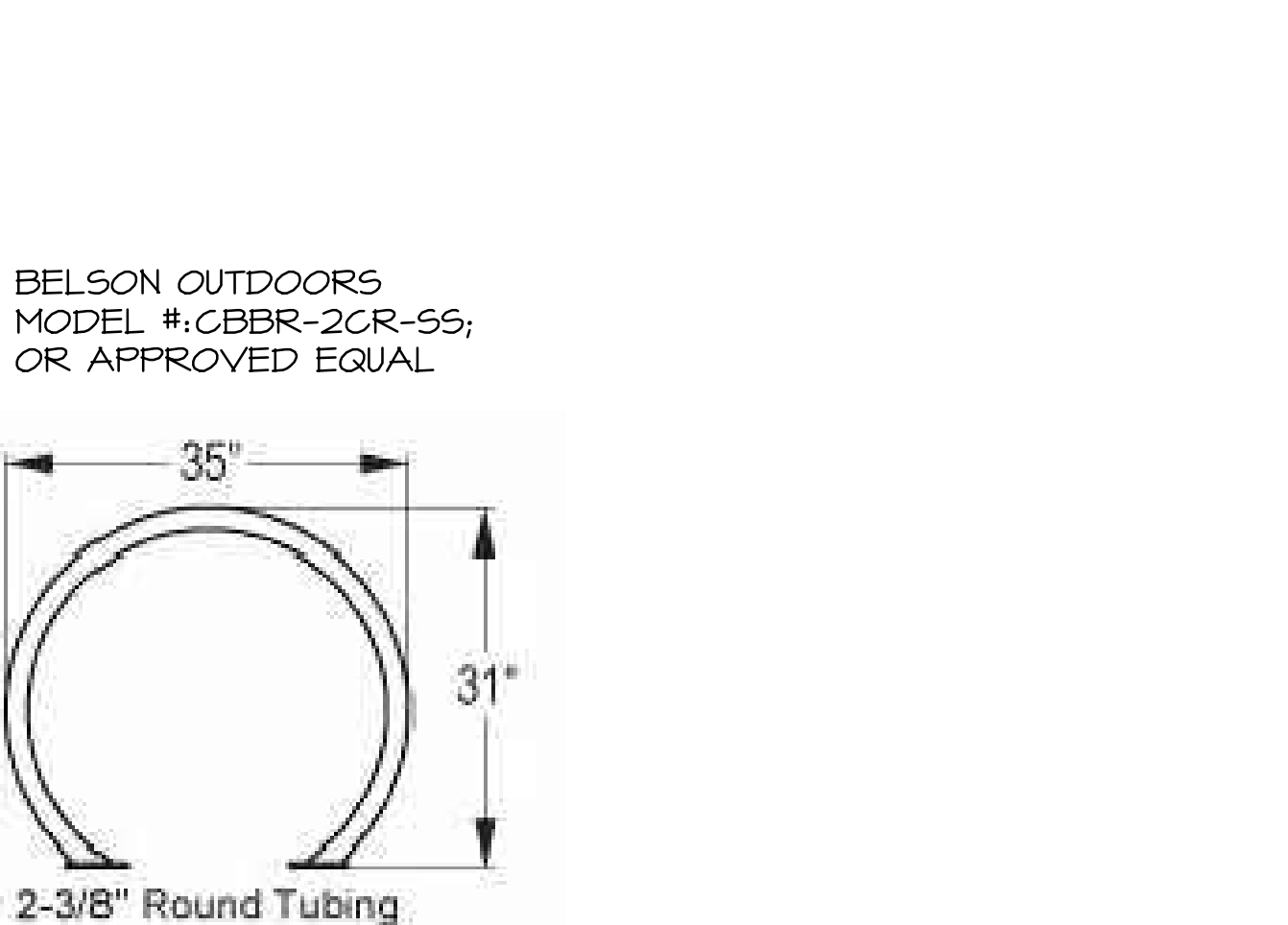
5 TYPICAL FENCE - AMERISTAR MONTAGE PLUS MAJESTIC



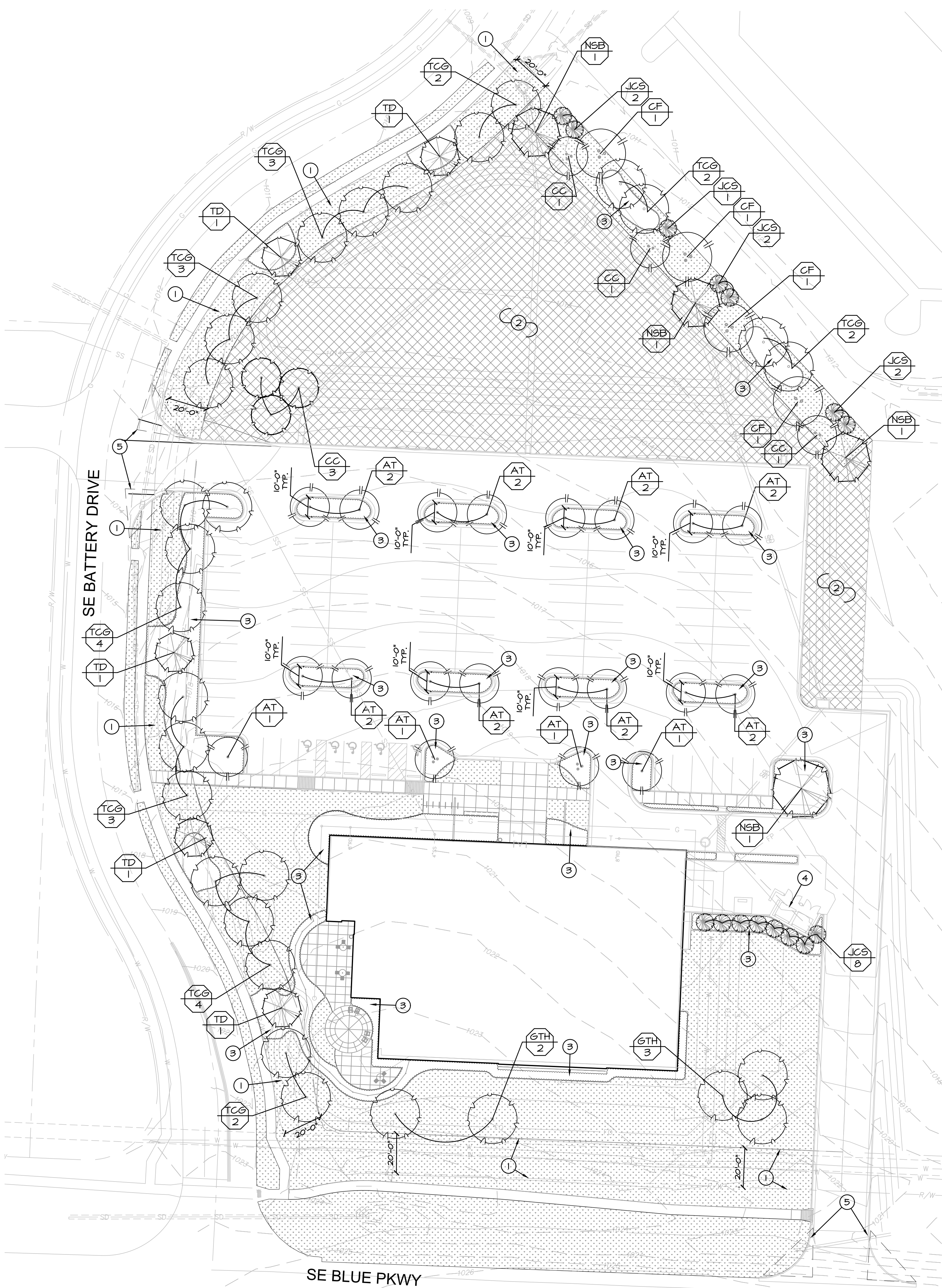
3 TYPICAL CHAIR - LOLLYGAGGER ROCKER



4 TYPICAL TRASH RECEPTACLE - LANDSCAPEFORMS LAKESIDE



6 TYPICAL BIKE RACK - 2 BIKE ROUND TUBE CIRCULAR BIKE RACK



LANDSCAPE GENERAL NOTES:

1. THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO ALL APPLICABLE STANDARDS AND SPECIFICATIONS OF THE CITY OF LEE'S SUMMIT, MISSOURI IN CURRENT USAGE. ALL STANDARDS NOT COVERED BY THE CITY SHALL BE APWA STANDARDS IN CURRENT USAGE UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL EXISTING UTILITIES, DRAIN LINES AND IRRIGATION PIPING PRIOR TO COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES, DRAIN LINES AND IRRIGATION PIPING.
3. CONTRACTOR SHALL VERIFY AND COORDINATE ALL FINAL GRADES WITH LANDSCAPE ARCHITECT PRIOR TO COMPLETION.
4. DEBRIS SHALL NOT BE ALLOWED TO ACCUMULATE AND SHALL BE REMOVED AT FREQUENT INTERVALS. AT COMPLETION OF WORK IN EACH AREA, THE CONTRACTOR SHALL GATHER AND REMOVE ALL DEBRIS, EQUIPMENT, AND EXCESS MATERIAL FROM THAT AREA. AT FINAL COMPLETION OF ALL WORK HE SHALL REMOVE ALL SUCH ITEMS FROM THE PREMISES.
5. LOCATION AND PLACEMENT OF ALL PLANT MATERIAL SHALL BE COORDINATED WITH LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
6. THE LANDSCAPE PLANTINGS PLAN GRAPHICALLY ILLUSTRATES OVERALL PLANT MASSINGS. EACH PLANT SPECIES SHALL BE PLACED IN THE FIELD TO UTILIZE THE GREATEST COVERAGE OF THE GROUND PLANE. THE FOLLOWING APPLIES FOR INDIVIDUAL PLANTINGS:
 - ALL EVERGREEN SHRUBS AND CREEPING GROUNDCOVERS SHALL BE MINIMUM OF 2' FROM ANY PAVING EDGE.
 - ALL PLANTS OF THE SAME SPECIES SHALL BE EQUALLY SPACED AND SITED FOR THE BEST AESTHETIC VIEWINGS.
 - ALL TREES, EVERGREEN OR DECIDUOUS, SHALL BE A MINIMUM OF 4' FROM ANY PAVING EDGE.
7. ANY SUBSTITUTION OF SPECIFIED PLANT MATERIAL WILL NOT BE ALLOWED WITHOUT WRITTEN AUTHORIZATION FROM LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
8. MULCH ALL PLANTING AREAS TO A DEPTH OF 3" DEPTH ACCORDING TO PLANS AND SPECIFICATIONS. SAMPLES SHALL BE APPROVED BY LANDSCAPE ARCHITECT.
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10. ALL PLANTING BEDS NOT FULLY CONTAINED BY CONCRETE CURBS OR WALKS SHALL BE EDGED ACCORDING TO PLANS AND SPECIFICATIONS.
11. PLANTS AND LANDSCAPE MATERIALS SHALL BE INSTALLED AS DETAILED ON PLANS.
12. PLANT SOIL MIXTURE FOR BACKFILL OF TREES AND SHRUBS SHALL BE PER SPECIFICATIONS.
13. ALL PLANTING BEDS SHALL BE TREATED WITH DACTHAL PRE-EMERGENT HERBICIDE AT MANUFACTURER'S RECOMMENDED RATES AND SHALL BE COVERED WITH SPECIFIED MULCH APPLICATION. APPLY LIGHTER APPLICATION OF DACTHAL HERBICIDE TO TOP OF MULCH LAYER.
14. ALL AREAS DISTURBED DURING CONSTRUCTION THAT ARE NOT DESIGNATED AS PLANTING BEDS, SOD AREA OR PAVEMENT AREAS SHALL BE SEEDED WITH A TURF TYPE TALL FESCUE PER SPECIFICATIONS.
15. ALL PLANT MATERIAL SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER OWNER'S FINAL ACCEPTANCE OF FINISHED JOB. ALL DEAD AND DAMAGED PLANT MATERIAL SHALL BE REPLACED BY LANDSCAPE CONTRACTOR AT THEIR EXPENSE. LANDSCAPE CONTRACTOR SHALL MAINTAIN PLANT MATERIAL UNTIL FINAL ACCEPTANCE.
16. ALL LANDSCAPE BEDS SHALL BE MOUNDED AS SHOWN ON PLANS AND DETAILS.
17. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ACTUAL PLANT QUANTITIES REQUIRED TO COMPLETE THE PROJECT AS SHOWN ON THE PLANS, AND BASE THEIR BID ACCORDINGLY.
18. PLANT KEY DESCRIPTION

LANDSCAPE LEGEND:

- RIGHT OF WAY / PROPERTY LINE
- SHRUB BED
- DETENTIONS BASIN SEED MIX AREA; SEE SPECIFICATIONS
- TURF TYPE FESCUE SOD - SEE SPECIFICATIONS

LANDSCAPE PLAN NOTES:

- 1 20' LANDSCAPE BUFFER STRIP
- 2 SEED MIX AREA; SEE SPECIFICATIONS FOR MIX
- 3 PLANTING BED; REF: LANDSCAPE GENERAL NOTES LANDSCAPE DETAILS #SPECIFICATIONS
- 4 TRASH ENCLOSURE; REF: CIVIL PLANS (SHALL MEET ALL UDO REQUIREMENTS)
- 5 SIGHT DISTANCE TRIANGLES

PARKING LOT LANDSCAPE - AREA CALCULATIONS

ORDINANCE REQUIREMENT

LANDSCAPE ISLANDS, STRIPS AND PLANTING AREAS SHALL CONSTITUTE AT LEAST FIVE PERCENT (5%) OF THE ENTIRE AREA DEVOTED TO PARKING.

TOTAL PARKING LOT AREA = 60,609 SQ FT
FIVE PERCENT (5%) OF 60,609 = 3,031 SQ FT

TOTAL ISLAND AREA = 2,584 SQ FT
TOTAL BUMP OUT AREA = 2,328 SQ FT
TOTAL LANDSCAPE AREA = 4,912 SQ FT

LOW IMPACT BUFFER TREES - PLANT SCHEDULE

KEY	BOTANICAL NAME	COMMON NAME	SIZE	COND.	QUANTITY
SHADE TREES					
TCG	Tilia cordata 'Greenspire'	GREENSPIRE LITTLELEAF LINDEN	3" CAL.	B 4 B	4
NSB	Nyssa sylvatica	BLACK GUM	3" CAL.	B 4 B	3
ORNAMENTAL TREES					
CC	Cercis canadensis	EASTERN REDBUD	3" CAL.	B 4 B	3
CF	Cornus florida	FLOWERING DOGWOOD	3" CAL.	B 4 B	4
EVERGREEN TREES					
JCS	Juniperus chinensis 'Spartan'	SPARTAN JUNIPER	8' HT MIN.	B 4 B	7

ORDINANCE REQUIREMENT

BUFFER LOT LINE LENGTH = 245'

245 LF x 20' = 4,900 SQ FT

BUFFER TYPE "C"

SHADE TREES 1 / 750 SF = 6.5 TREES

ORNAMENTAL TREES 1 / 750 SF = 6.5 TREES

EVERGREEN TREES 1 / 750 SF = 6.5 TREES

1 DECIDUOUS TREES REQUIRED
1 ORNAMENTAL TREES REQUIRED
1 EVERGREEN TREES REQUIRED

TOTAL PROPOSED 7
TOTAL PROPOSED 7

STREET FRONTAGE TREES - PLANT SCHEDULE

KEY	BOTANICAL NAME	COMMON NAME	SIZE	COND.	QUANTITY
SHADE TREES					
6TH	Gleditsia triacanthos f. inermis 'Skycole'	SKYLINE HONEY LOCUST	3" CAL.	B 4 B	5
TCG	Tilia cordata 'Greenspire'	GREENSPIRE LITTLELEAF LINDEN	3" CAL.	B 4 B	21
TD	Taxodium distichum 'Michelson'	SHAWNEE BRAVE BALD CYPRESS	3" CAL.	B 4 B	5

ORDINANCE REQUIREMENT

ONE (1) TREE PER 30' LINEAR FEET OF STREET FRONTAGE.

921 FT. OF STREET FRONTAGE / 30' =

31 TREES REQUIRED

TOTAL PROPOSED 31

OPEN YARD TREES - PLANT SCHEDULE

KEY	BOTANICAL NAME	COMMON NAME	SIZE	COND.	QUANTITY
SHADE TREES					
AT	Acer truncatum	SHANTUNG MAPLE	3" CAL.	B 4 B	20
NSB	Nyssa sylvatica	BLACK GUM	3" CAL.	B 4 B	1
ORNAMENTAL TREES					
CC	Cercis canadensis	EASTERN REDBUD	3" CAL.	B 4 B	5
EVERGREN TREES					
JCS	Juniperus chinensis 'Spartan'	SPARTAN JUNIPER	8' HT MIN.	B 4 B	8

ORDINANCE REQUIREMENT

ONE (1) TREE PER 5000 SQ. FT. OF TOTAL LOT AREA EXCLUDING BUILDING FOOTPRINT (IN ADDITION TO STREET TREES).

165,464 SQ. FT. OF TOTAL LOT AREA MINUS 18,450 SQ. FT. OF BUILDING FOOTPRINT = 147,014 SF

147,014 SQ. FT. / 5000 = 29.4 TREES REQUIRED

TOTAL PROPOSED 32

SAPP DESIGN ARCHITECTS

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Mid-Continent Public Library

RENOVATIONS TO

EAST LEE'S SUMMIT BRANCH

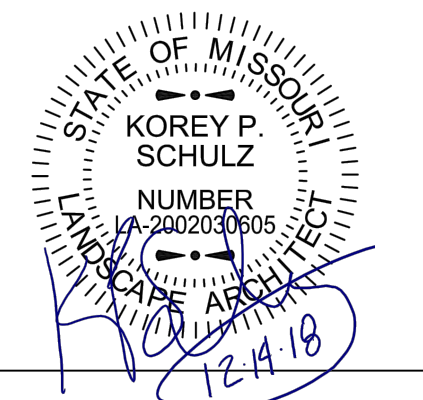
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Lee's Summit, Missouri 64081

Jackson County

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04



ochsner hare + hare
the olsson studio

Ochsner Hare & Hare
Missouri State Certificate of Authority #2005000285

Revision No.	Description	Date
01	ASI 01	1/14/19

Project No. 016-1023 Date 12-21-18 Drawn TG

Drawing No.

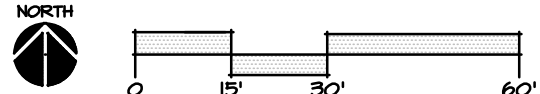
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OVERSTORY
LANDSCAPE PLAN

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1 UNDERSTORY LANDSCAPE PLAN



LOW IMPACT BUFFER SHRUBS - PLANT SCHEDULE					
KEY	BOTANICAL NAME	COMMON NAME	SIZE	COND.	QUANTITY
DECIDUOUS SHRUBS					
AMB	Aronia melanocarpa	BLACK CHOKEBERRY	5 GAL.	CONT.	4
CAB	Cornus alba 'Balthalo'	IVORY HALO DOGWOOD	5 GAL.	CONT.	4
IVL	Itea virginica 'Little Henry'	LITTLE HENRY SWEETSPIRE	5 GAL.	CONT.	12
POD	Physocarpus opulifolius 'Diabolo'	DIABOLO NINEBARK	5 GAL.	CONT.	2
VCK	Viburnum carlesii	KOREANSPICE VIBURNUM	5 GAL.	CONT.	4
ORDINANCE REQUIREMENT					
BUFFER LOT LINE LENGTH = 245'					
245 LF x 20' = 4900 SQ FT					
BUFFER TYPE "C"					
ONE (1) SHRUB / 200 SF = 24.5 SHRUBS					
			25 SHRUBS REQUIRED		TOTAL PROPOSED 26

STREET FRONTAGE SHRUBS - PLANT SCHEDULE					
KEY	BOTANICAL NAME	COMMON NAME	SIZE	COND.	QUANTITY
DECIDUOUS SHRUBS					
AMB	Aronia melanocarpa	BLACK CHOKEBERRY	5 GAL.	CONT.	5
CAB	Cornus alba 'Balthalo'	IVORY HALO DOGWOOD	5 GAL.	CONT.	30
IVL	Itea virginica 'Little Henry'	LITTLE HENRY SWEETSPIRE	5 GAL.	CONT.	4
VCK	Viburnum carlesii	KOREANSPICE VIBURNUM	5 GAL.	CONT.	6
PERENNIALS / GRASSES					
EPP	Echinacea purpurea	PURPLE CONEFLOWER	1 GAL.	CONT.	4
RHB	Rudbeckia fulgida speciosa 'Goldsturm'	GOLDSTURM BLACK-EYED SUSAN	1 GAL.	CONT.	51
ORDINANCE REQUIREMENT					
ONE (1) SHRUB PER 20 FEET OF STREET FRONTAGE.					
921 FT. OF STREET FRONTAGE / 20 SF =46.05 SHRUBS REQUIRED					
			46 SHRUBS REQUIRED		TOTAL PROPOSED 106

OPEN YARD SHRUBS - PLANT SCHEDULE					
KEY	BOTANICAL NAME	COMMON NAME	SIZE	COND.	QUANTITY
DECIDUOUS SHRUBS					
AMB	Aronia melanocarpa	BLACK CHOKEBERRY	5 GAL.	CONT.	3
CAB	Cornus alba 'Balthalo'	IVORY HALO DOGWOOD	5 GAL.	CONT.	20
CLA	Clethra alnifolia	SUMMERSWEET	5 GAL.	CONT.	14
FXI	Forsythia X intermedia	BORDER FORSYTHIA	5 GAL.	CONT.	5
IVL	Itea virginica 'Little Henry'	LITTLE HENRY SWEETSPIRE	5 GAL.	CONT.	77
OHA	Hydrangea quercifolia	OAKLEAF HYDRANGEA	5 GAL.	CONT.	11
POD	Physocarpus opulifolius 'Diabolo'	NINEBARK 'DIABOLO'	5 GAL.	CONT.	4
RAG	Rhus aromatica 'Sera-low'	GRO-LOW FRAGRANT SUMAC	5 GAL.	CONT.	119
VCK	Viburnum carlesii	KOREANSPICE VIBURNUM	5 GAL.	CONT.	7
PERENNIALS / GRASSES					
BSF	Baptista 'Solar Flare'	SOLAR FLARE FALSE INDIGO	1 GAL.	CONT.	4
EPP	Echinacea purpurea	PURPLE CONEFLOWER	1 GAL.	CONT.	42
HOS	Hosta 'Patriot'	PATRIOT HOSTA	1 GAL.	CONT.	29
LS	Liatris spicata	BLAZING STAR	1 GAL.	CONT.	36
PVH	Panicum virgatum 'Heavy Metal'	HEAVY METAL SWITCHGRASS	5 GAL.	CONT.	35
RHB	Rudbeckia fulgida speciosa 'Goldsturm'	GOLDSTURM BLACK-EYED SUSAN	1 GAL.	CONT.	25
SHP	Sporobolus heterolepis	PRAIRIE DROPSOED	5 GAL.	CONT.	84
ORDINANCE REQUIREMENT					
TWO (2) SHRUBS PER 5000 SQ. FT. OF TOTAL LOT AREA EXCLUDING BUILDING FOOTPRINT.					
165,464 SQ. FT. OF TOTAL LOT AREA MINUS 10,450 SQ. FT. OF BUILDING FOOTPRINT = 147,014 SQ. FT.					
147,014 SQ. FT. / 5000 x 2 =					
			58.8 SHRUBS REQUIRED		TOTAL PROPOSED 620

PARKING LOT SCREENING - PLANT SCHEDULE					
KEY	BOTANICAL NAME	COMMON NAME	SIZE	COND.	QUANTITY
DECIDUOUS SHRUBS					
AMB	Aronia melanocarpa	BLACK CHOKEBERRY	5 GAL.	CONT.	4
CAB	Cornus alba 'Balthalo'	IVORY HALO DOGWOOD	5 GAL.	CONT.	21
CLA	Clethra alnifolia	SUMMERSWEET	5 GAL.	CONT.	30
FXI	Forsythia X intermedia	BORDER FORSYTHIA	5 GAL.	CONT.	5
IVL	Itea virginica 'Little Henry'	HENRY'S GARNET SWEETSPIRE	5 GAL.	CONT.	41
OHA	Hydrangea quercifolia	LITTLE HENRY SWEETSPIRE	5 GAL.	CONT.	5
VCK	Viburnum carlesii	OAKLEAF HYDRANGEA	5 GAL.	CONT.	4
PERENNIALS / GRASSES					
EPP	Echinacea purpurea	PURPLE CONEFLOWER	1 GAL.	CONT.	2
RHB	Rudbeckia fulgida speciosa 'Goldsturm'	GOLDSTURM BLACK-EYED SUSAN	1 GAL.	CONT.	21
SHP	Sporobolus heterolepis	PRAIRIE DROPSOED	5 GAL.	CONT.	40
SSB	Schizachyrium scoparium	LITTLE BLUESTEM	5 GAL.	CONT.	6
ORDINANCE REQUIREMENT					
12 SHRUBS PER 40 LINEAR FEET (MUST BE 2.5 FEET TALL; BERMS MAY BE COMBINED WITH SHRUBS)					
WEST SIDE OF PARKING LOT: 175 LINEAR FT. / 40 LINEAR FT. x 12 =					
32.5 SHRUBS REQUIRED					
SOUTH SIDE OF PARKING LOT: 80 LINEAR FT. / 40 LINEAR FT. x 12 =					
			24 SHRUBS REQUIRED		TOTAL PROPOSED 141

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- ALL PLANTING BEDS SHALL BE TREATED WITH DACTHAL PRE-EMERGENT HERBICIDE AT MANUFACTURER RECOMMENDED RATES AND SHALL BE COVERED WITH SPECIFIED MULCH APPLICATION. APPLY LIGHTER APPLICATION OF DACTHAL HERBICIDE TO TOP OF MULCH LAYER.
- ALL AREAS DISTURBED DURING CONSTRUCTION THAT ARE NOT DESIGNATED AS PLANTING BEDS, SOD AREA OR PAVEMENT AREAS SHALL BE SEEDED WITH A TURF-TYPE FESCUE PER SPECIFICATIONS.
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- PLANT KEY DESCRIPTION: PLANT TYPE QUANTITY

LANDSCAPE LEGEND:

- RIGHT OF WAY / PROPERTY LINE
- SEEDED BASIN AREA; SEE SPECIFICATIONS
- TURF-TYPE FESCUE SOD; SEE SPECIFICATIONS

LANDSCAPE PLAN NOTES:

- 20' LANDSCAPE STRIP
- AREA TO BE SODDED WITH TURF-TYPE FESCUE; REF: SPECIFICATIONS
- SEEDED AREA; MIX TO BE DETERMINED
- PLANTING BED; REF: LANDSCAPE GENERAL NOTES, LANDSCAPE DETAILS & SPECIFICATIONS
- HARDWOOD MULCH; REF: LANDSCAPE GENERAL NOTES & SPECIFICATIONS
- CONSTRUCT STEEL BED EDGE; REF 4/L540
- TRASH ENCLOSURE WITH 6" MASONRY SCREEN WALL (SHALL MEET ALL UDO REQUIREMENTS)
- SIGHT TRIANGLES

SAPP DESIGN ARCHITECTS
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RENOVATIONS TO
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Lee's Summit, Missouri 64081
Jackson County

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04

STATE OF MISSOURI
KOREY P. SCHULZ
NUMBER 12-202033605
12-4-18

ochsner hare + hare
the **olsson studio**

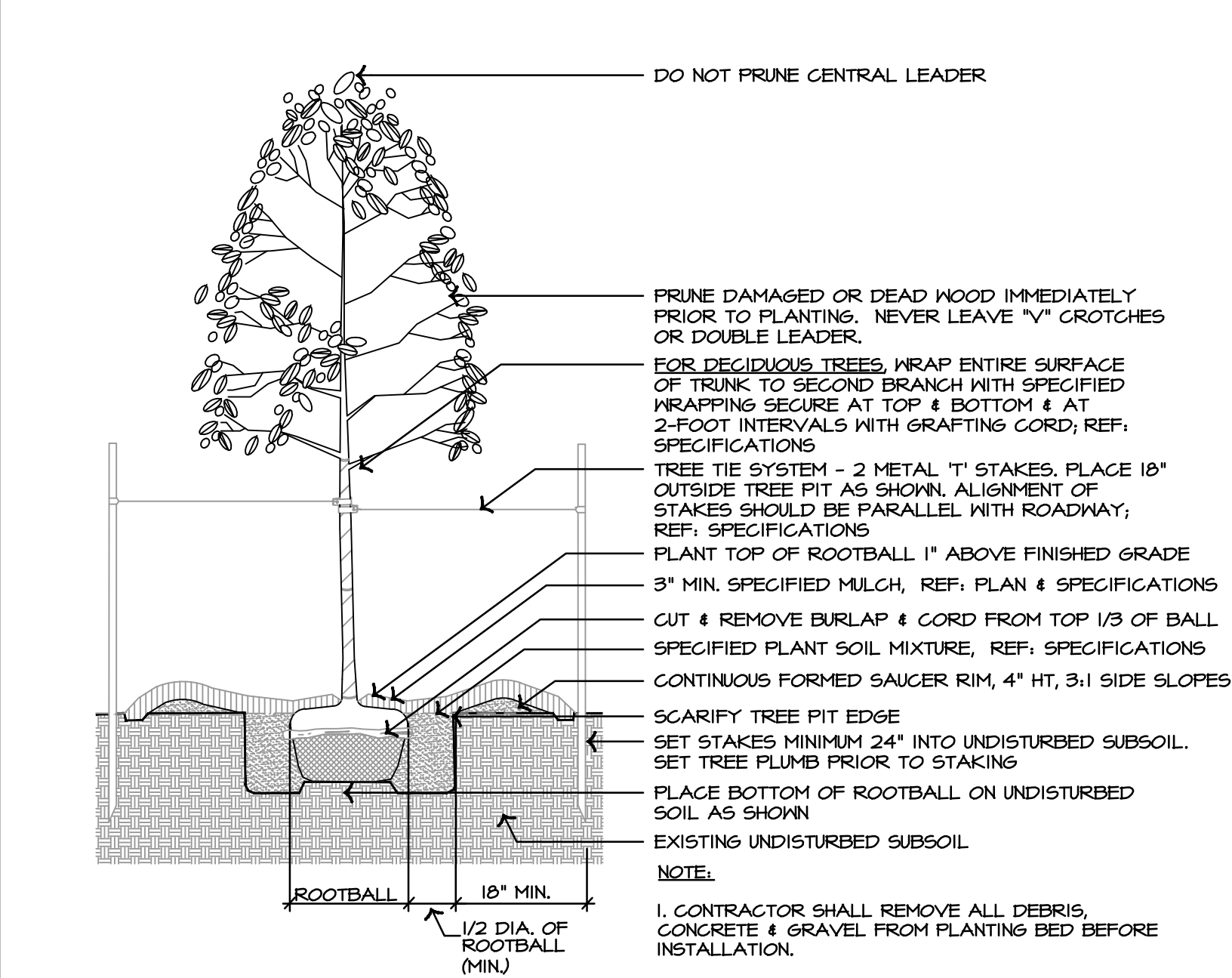
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Revision No.	Description	Date
01	ASI 01	1/14/19

Project No.	Date	Drawn
016-1023	12-21-18	TG

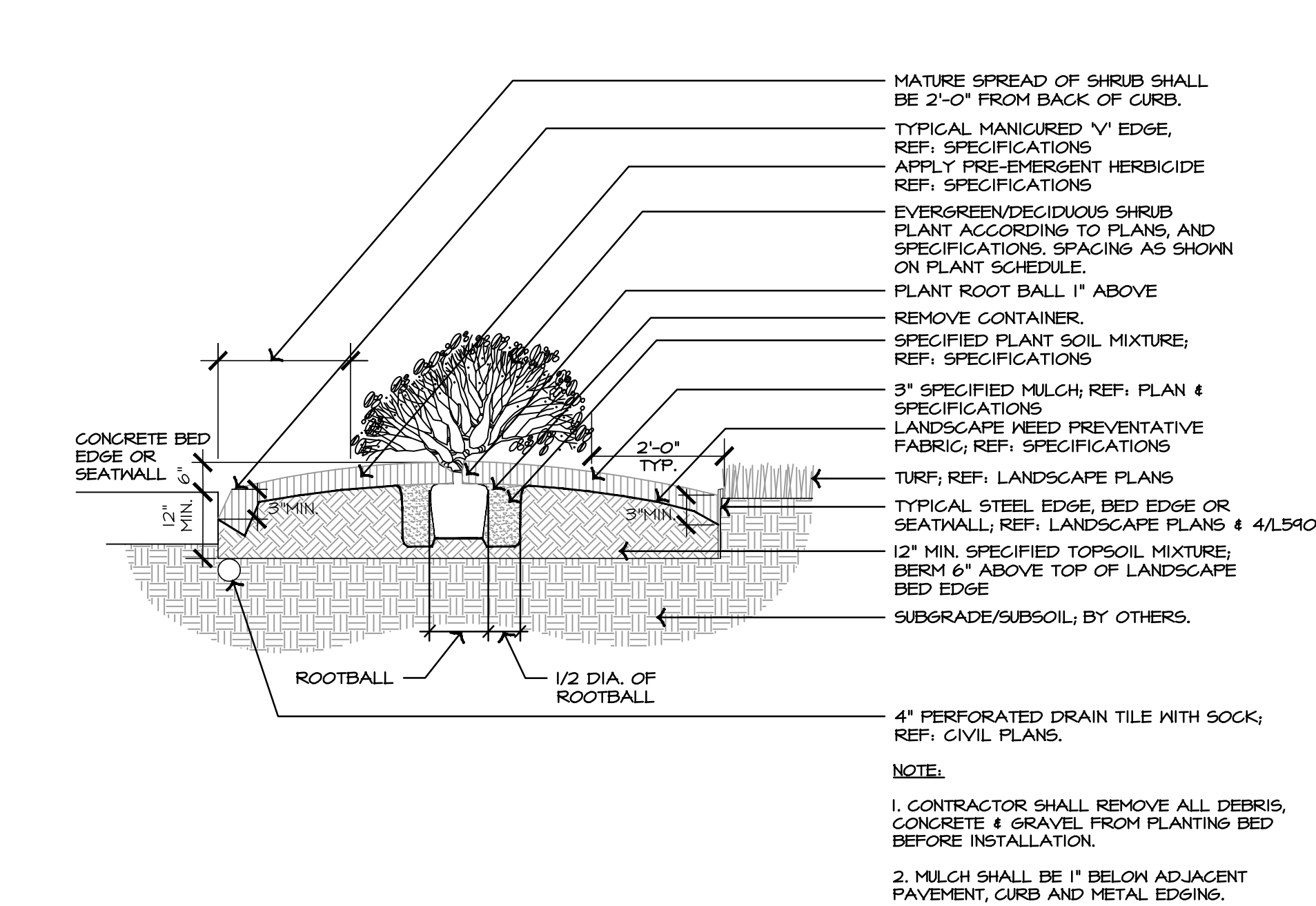
Drawing No.

L510
UNDERSTORY
LANDSCAPE PLAN

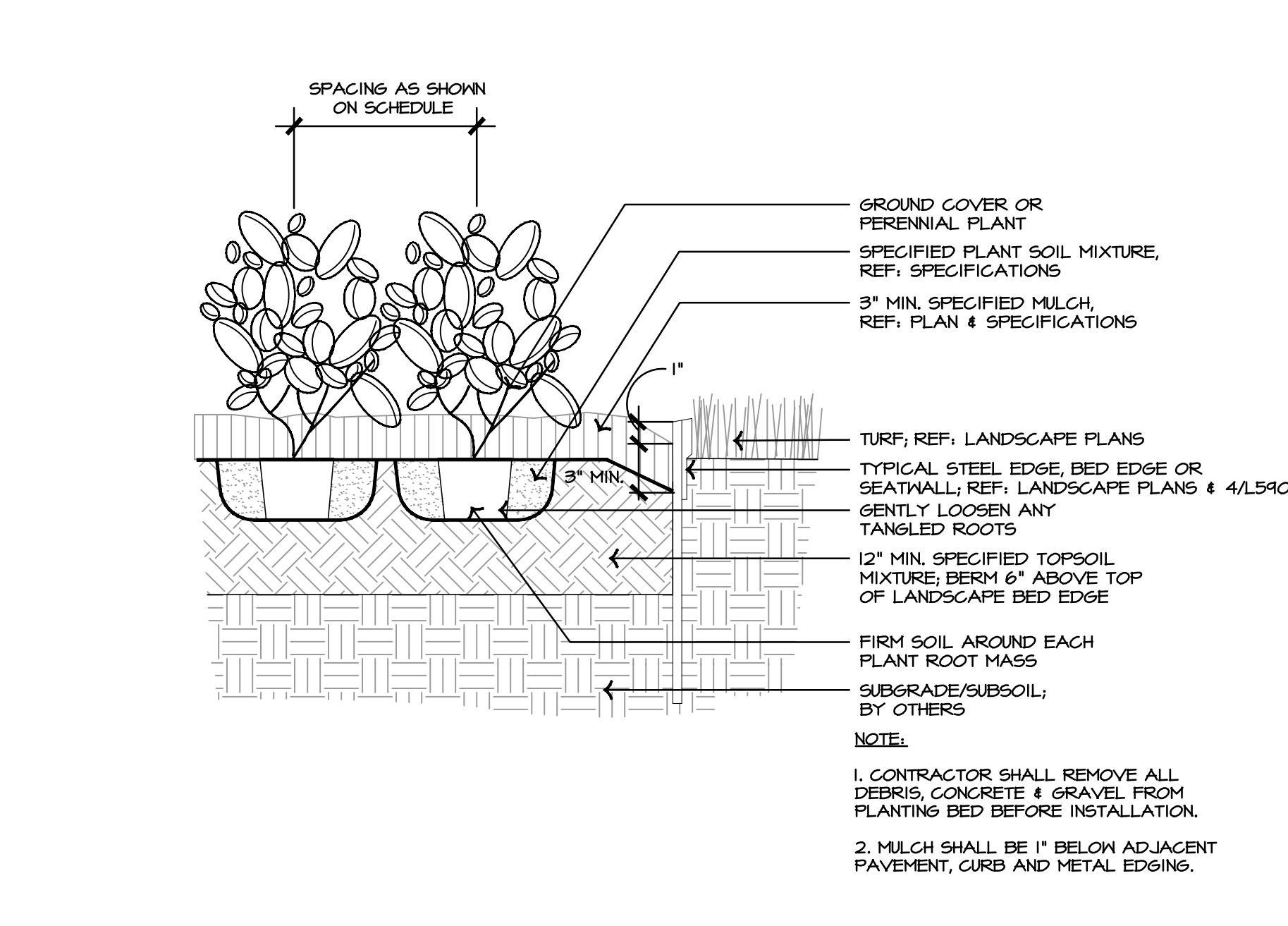
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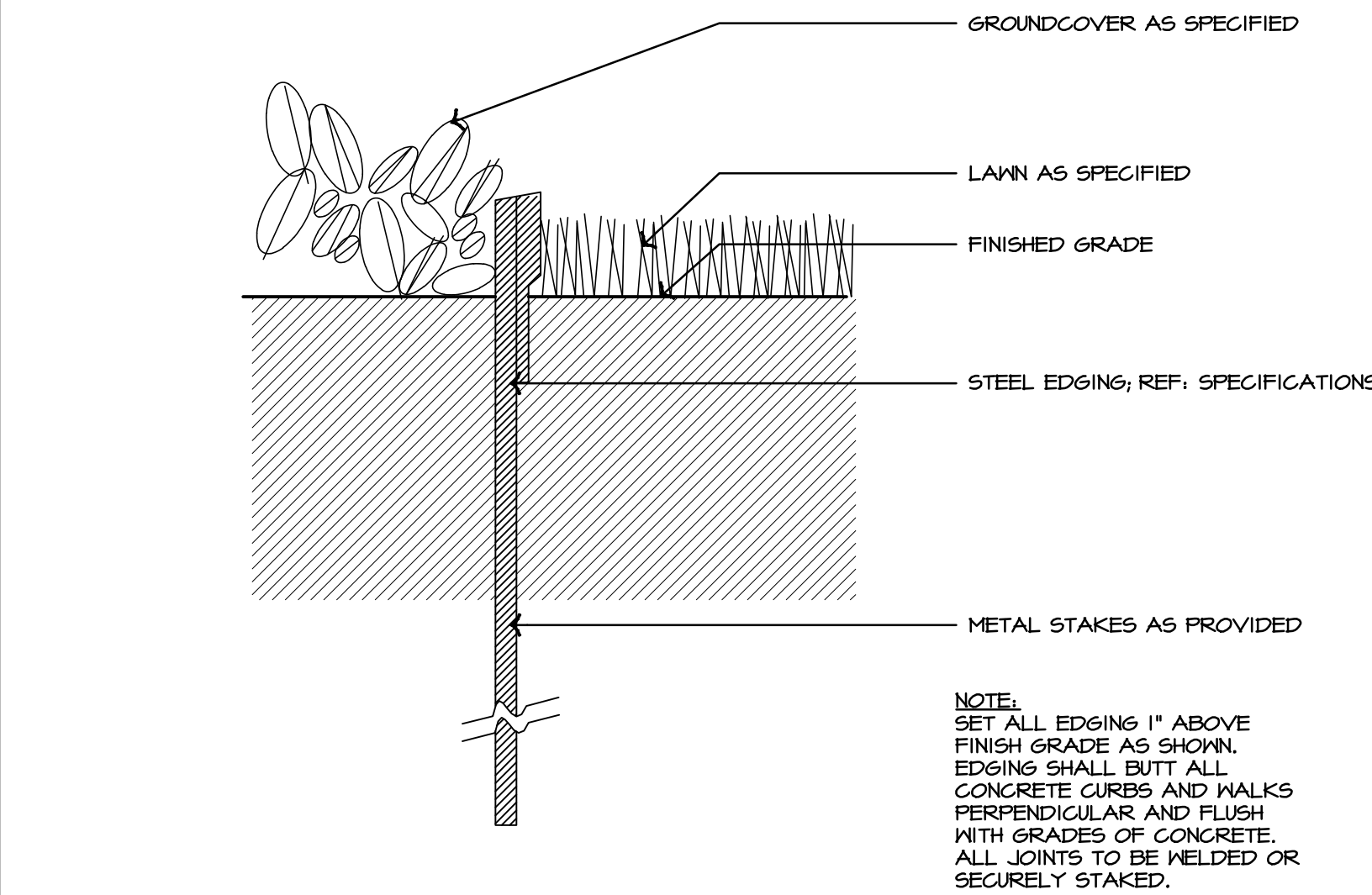
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2 TYPICAL SHRUB PLANTING



3 TYPICAL GROUNDCOVER & PERENNIAL PLANTING



4 TYPICAL STEEL BED EDGE

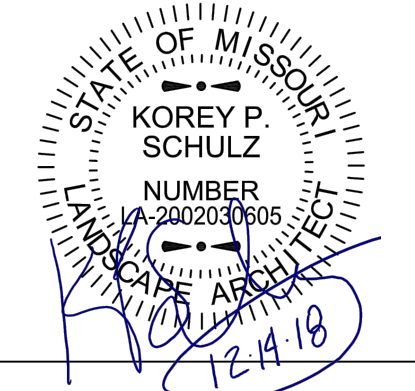
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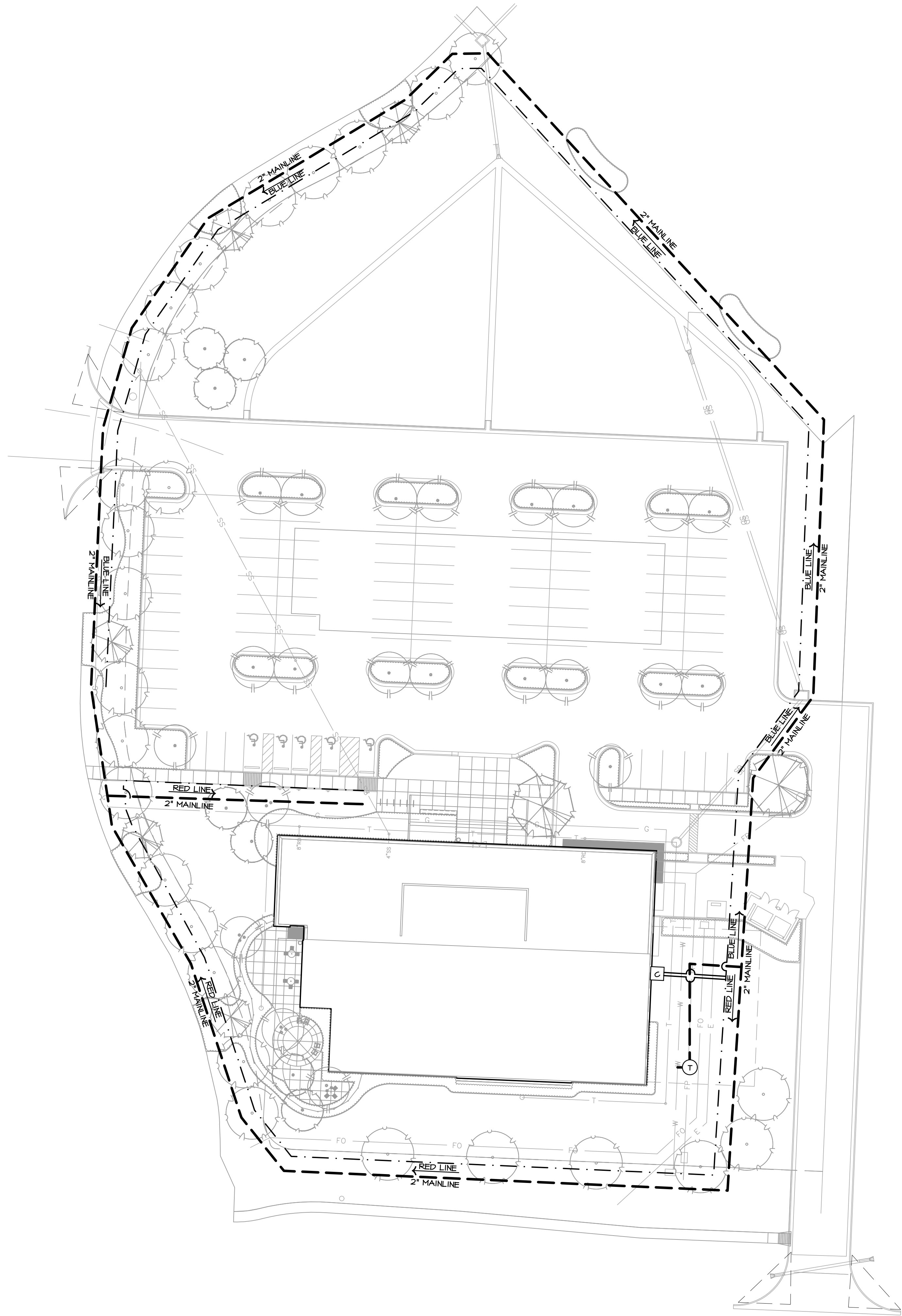
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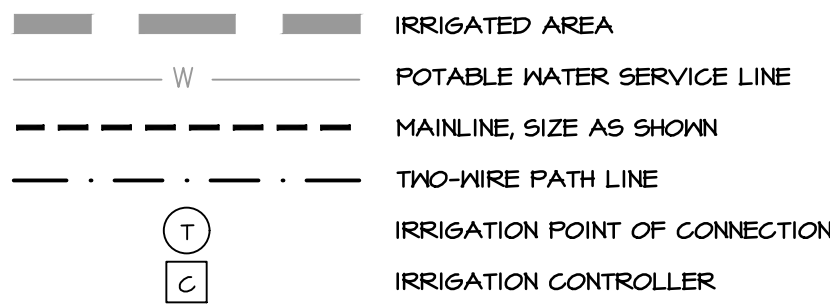
Project No.	Date	Drawn
016-1023	12-21-18	TG

Drawing No.
L590
LANDSCAPE DETAILS

1 IRRIGATION MAINLINE & WIRE PLAN



IRRIGATION
OVERALL PLAN LEGEND:



IRRIGATION GENERAL NOTES:

1. THIS DESIGN IS SHOWN IN A DIAGRAMMATIC FORM. ALL COMPONENTS ARE SHOWN FOR THE PURPOSE OF CLARIFICATION AND LEGIBILITY. ALL WORK SHALL CONFORM TO SPECIFICATIONS AND DETAILS INCLUDED IN THIS PACKAGE. IRRIGATION MAINLINE, LATERALS, CONTROL VALVES, SUB-METER, BACKFLOW PREVENTER AND OTHER IRRIGATION CONTROL EQUIPMENT SHALL BE INSTALLED IN LANDSCAPE BEDS OR TURF AREAS UNLESS CONTAINED IN PVC SLEEVING UNDER PAVEMENT OR OTHER HARDSCAPE AS INDICATED ON PLANS.
2. VERIFY ALL CONDITIONS AND DIMENSIONS SHOWN ON THE PLANS AT THE SITE PRIOR TO COMMENCEMENT OF WORK.
3. CONTACT LANDSCAPE ARCHITECT AND COORDINATE ALL REVIEWS PRIOR TO COMMENCEMENT OF WORK.
4. IRRIGATION CONTRACTOR SHALL VERIFY PRESSURE AT ALL TAP LOCATIONS PRIOR TO THE INSTALLATION OF ANY COMPONENTS OF THE IRRIGATION SYSTEM. NOTIFY LANDSCAPE ARCHITECT IF THE MINIMUM REQUIREMENTS FOR FLOW AND PRESSURE NOTED IN THE IRRIGATION SCHEDULES CAN NOT BE MEET.
5. CONTRACTOR SHALL INSTALL ALL IRRIGATION EQUIPMENT IN THE TURF AREAS AND PLANTING BEDS IN A MANNER SO AS TO CONFORM WITH THE VARIOUS DETAILS, PLAN NOTES AND SPECIFICATIONS FROM LANDSCAPE ARCHITECT AND MANUFACTURER.
6. EXERCISE EXTREME CARE IN EXCAVATING AND WORKING NEAR EXISTING TREES AND UTILITIES. THE CONTRACTOR SHALL VERIFY LOCATION AND CONDITION OF ALL UTILITIES AND BE RESPONSIBLE FOR DAMAGE TO TREES OR UTILITIES. FIELD ADJUST SPRINKLER LOCATIONS SO AS TO AVOID CONFLICTS WITH UTILITIES (FIRE HYDRANTS, TRANSFORMERS, ETC.).
7. PROTECT AT ALL TIMES THE WORK FROM DAMAGE AND THEFT. REPLACE ALL DAMAGED OR STOLEN PARTS AT CONTRACTOR'S EXPENSE UNTIL THE WORK IS ACCEPTED IN WRITING BY THE OWNER.
8. THE FINAL LOCATION AND EXACT POSITIONING OF THE AUTOMATIC CONTROLLER SHALL BE APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION.
9. IRRIGATION CONTRACTOR RESPONSIBLE TO COORDINATE I/O ELECTRICAL SERVICE FOR CONTROLLER WITH BUILDING GENERAL CONTRACTOR. POWER SUPPLY CONNECTION BY IRRIGATION CONTRACTOR.
10. FLUSH AND ADJUST ALL SPRINKLER HEADS FOR OPTIMUM PERFORMANCE. INSTALL PRESS-DIAL PRESSURE REGULATING MODULES ON ALL VALVES OPERATING AT PRESSURES HIGHER THAN 5 PSI FROM OPERATION PSI AS STATED IN THE CONTROLLER SCHEDULES FOR EACH ZONE.
11. DO NOT WILLFULLY INSTALL THE SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT WIND CONDITIONS, OBSTRUCTIONS, GRADE DIFFERENCES OR DIFFERENCES IN THE AREAS DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED DURING DESIGN BRING SUCH OBSTRUCTIONS OR DIFFERENCE TO THE ATTENTION OF THE LANDSCAPE ARCHITECT. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY AND COSTS FOR ALL NECESSARY REVISIONS.
12. CONTRACTOR SHALL PLACE ALL ZONE CONTROL VALVES AND QUICK COUPLER VALVES IN LANDSCAPE BEDS, AS POSSIBLE. PLACE VALVE BOXES A MINIMUM OF 1'-0" FROM ANY PAVEMENT AND PARALLEL TO PAVEMENT EDGE. GROUPED VALVES TO BE EQUALLY SPACED.
13. ADJUST HEAD LOCATION IF SPRAY IS DETRIMENTAL TO OR BLOCKED BY TREE, SHRUB OR STRUCTURE, MAINTAINING EVEN COVERAGE OF PLANTED AREAS.
14. INSTALL ALL MAINLINES TO SLOPE AT A MINIMUM TO MANUAL DRAIN VALVES LOCATED AT LOW POINTS OF MAIN SYSTEM.
15. ALL SPRINKLER HEADS AND TURF ROTORS SHALL BE ADJUSTED SO THEY DO NOT SPRAY ONTO WALKS, RETAINING WALLS, BUILDINGS OR THE PLAZA AREAS.
16. THE IRRIGATION SYSTEM IS DESIGNED TO BE DRAINED AND BLOWN OUT WITH PRESSURIZED AIR PRIOR TO FREEZING TEMPERATURES IN FALL/WINTER. THE CONTRACTOR SHALL DRAIN AND BLOW OUT THE SYSTEM AS NECESSARY UNTIL SUBSTANTIAL COMPLETION. THE CONTRACTOR SHALL BLOW OUT THE SYSTEM AND INSTRUCT THE OWNER ON THE PROCEDURES FOR THE FIRST FALL/WINTER FOLLOWING THE NOTICE OF SUBSTANTIAL COMPLETION.
17. THE CONTRACTOR SHALL PRESSURIZE AND MAKE OPERATIONAL THE SYSTEM IN THE SPRING, AFTER ALL CHANCES OF FREEZING TEMPERATURES PASSES. UNTIL NOTICE OF SUBSTANTIAL COMPLETION. THE CONTRACTOR SHALL ALSO PRESSURIZE AND MAKE THE SYSTEM OPERATIONAL AND INSTRUCT THE OWNER ON PROCEDURES FOR THE FIRST SPRING FOLLOWING THE NOTICE OF SUBSTANTIAL COMPLETION.
18. CONTRACTOR SHALL INSTALL SLEEVES UNDER HARDSCAPE AT ALL POINTS WHERE IRRIGATION MAIN LINE AND LATERALS ARE LOCATED.
19. ALL IRRIGATION EQUIPMENT INCLUDING VALVES, MAINLINES AND LATERALS SHALL BE LOCATED ON THE OWNERS PROPERTY.

SAPP
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ARCHITECTS

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1629 Walnut
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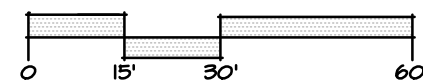
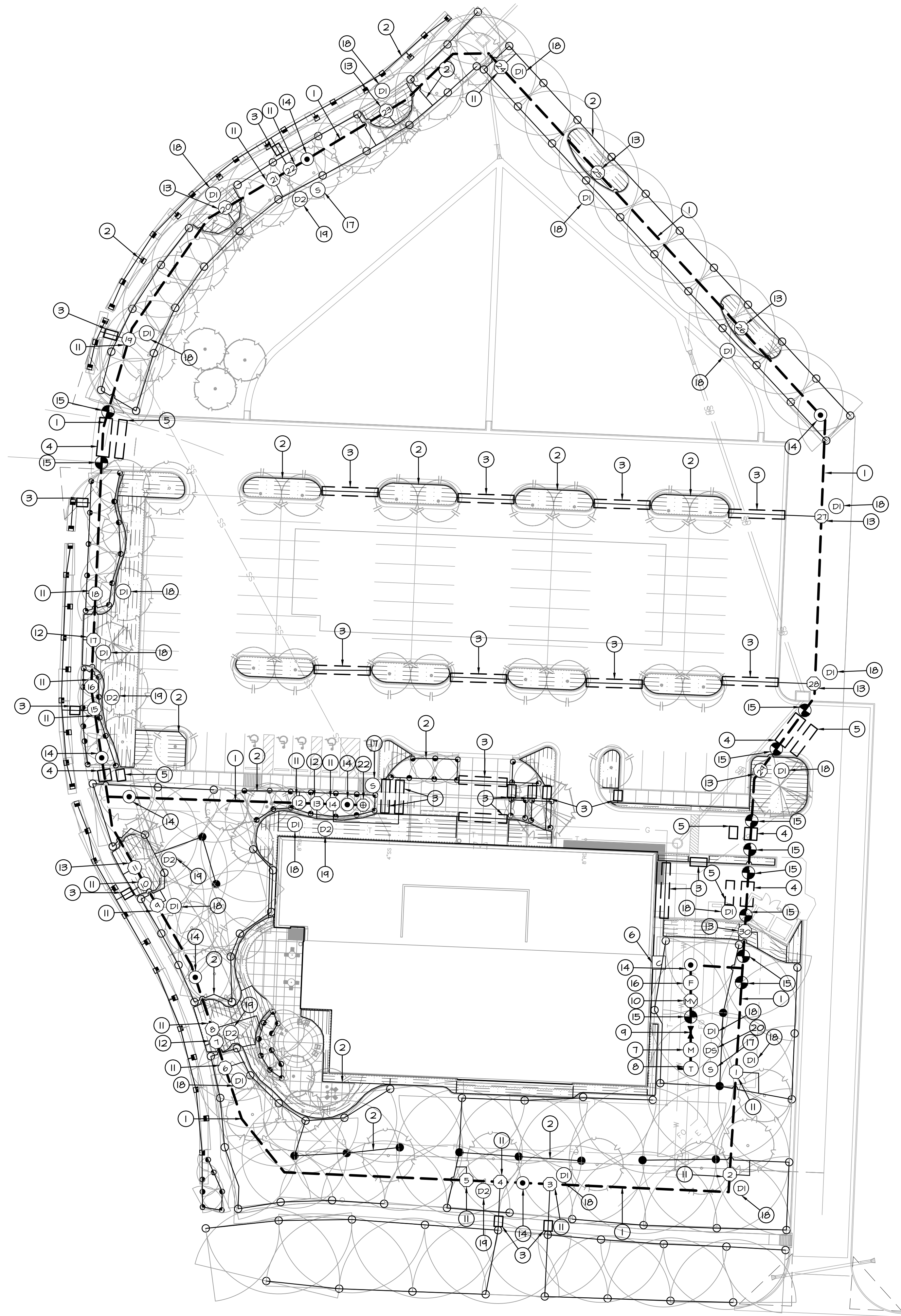
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Project No. 016-1023	Date 12-21-18	Drawn TG
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Drawing No.
L600
IRRIGATION MAINLINE
& WIRE PLAN

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1 IRRIGATION PLAN



IRRIGATION LEGEND:

- RIGHT OF WAY / PROPERTY LINE
- FULL CIRCLE TURF ROTOR, REF: 1/L690
- PART CIRCLE TURF ROTOR, REF: 1/L690
- FULL CIRCLE SPRAY HEAD, REF: 2/L690
- THREE QUARTER CIRCLE SPRAY HEAD, REF: 2/L690
- TWO THIRDS CIRCLE SPRAY HEAD, REF: 2/L690
- HALF CIRCLE SPRAY HEAD, REF: 2/L690
- ONE THIRD CIRCLE SPRAY HEAD, REF: 2/L690
- QUARTER CIRCLE SPRAY HEAD, REF: 2/L690
- SIDE STRIP SPRAY HEAD, REF: 2/L690
- CENTER STRIP SPRAY HEAD, REF: 2/L690
- END STRIP SPRAY HEAD, REF: 2/L690
- W POTABLE WATER SERVICE LINE
- MAINLINE, SIZE AS SHOWN, REF: 4/L691
- LATERAL PIPE, SIZE AS SHOWN, REF: 4/L691
- LANDSCAPE DRIPLINE, REF: 3, 4, 5, 6, 1 & 9/L690
- ===== SCHEDULE 40 PVC SLEEVE
- M IRRIGATION WATER METER, REF: 5/L691
- T RPA BACKFLOW PREVENTER, REF: 5/L691
- MC IRRIGATION POINT OF CONNECTION, REF: 5/L691
- MV MASTER CONTROL VALVE, REF: 10/L690
- I2 ZONE CONTROL VALVE, REF: 8 & 9/L690
- MANUAL GATE VALVE, REF: 3/L691
- QUICK COUPLER VALVE, REF: 1/L691
- F FLOW SENSOR, REF: 11 & 12/L690
- C AUTOMATIC CONTROLLER, REF: 6/L691
- R RAIN/FREEZE SENSOR, REF: 5/L691

IRRIGATION PLAN NOTES:

- POTABLE WATER IRRIGATION MAINLINES TO BE 1-1/2" PVC PIPE OR AS SHOWN ON PLANS, REF: 4/L2.2
- POTABLE WATER IRRIGATION LATERALS TO BE 1" PVC PIPE OR AS SHOWN ON THE PLANS, REF: 4/L2.2
- POTABLE WATER IRRIGATION SLEEVES SHALL BE 4" PVC SCHEDULE 40 PIPE OR AS SHOWN ON THE PLANS
- POTABLE WATER IRRIGATION SLEEVES SHALL BE 6" PVC SCHEDULE 40 PIPE OR AS SHOWN ON THE PLANS
- IRRIGATION CONTROL WIRE SLEEVES SHALL BE 4" PVC SCHEDULE 40 PIPE OR AS SHOWN ON THE PLANS
- IRRIGATION IRRIGATION CONTROLLER SHALL BE RAIN BIRD ESP-LXD MODULAR SERIES WALL MOUNTED CONTROLLER. FINAL CONTROLLER LOCATION SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. ELECTRICAL SERVICE TO THE CONTROLLER LOCATION IS TO BE COORDINATED BY THE GENERAL CONTRACTOR AND PROVIDED BY ELECTRICAL CONTRACTOR. POWER HOOK-UP TO THE CONTROLLER BY IRRIGATION CONTRACTOR. INSTALL CONTROLLER PER MANUFACTURERS RECOMMENDATIONS AND SPECIFICATIONS, REF: 7/L2.2
- IRRIGATION WATER METER INSTALLED BY CITY WATER DEPARTMENT. IRRIGATION CONTRACTOR SHALL COORDINATE INSTALLATION.
- IRRIGATION POINT OF CONNECTION. IRRIGATION CONTRACTOR SHALL CONNECT IRRIGATION MAINLINE TO WATER SUPPLY AS REQUIRED BY ALL CITY, COUNTY OR STATE REGULATIONS. IRRIGATION TAP SHALL OCCUR AFTER METER AND BACKFLOW PREVENTER PROVIDED BY GENERAL CONTRACTOR. REF: 5/L2.2
- BACKFLOW PREVENTER. IRRIGATION CONTRACTOR SHALL INSTALL AS REQUIRED BY ALL CITY, COUNTY, AND STATE REGULATIONS, REF: 5/L691
- 2" RAIN BIRD MODEL MASTER VALVE CONNECTED TO POTABLE IRRIGATION MAINLINE AFTER IRRIGATION POINT OF CONNECTION, METER AND BACKFLOW PREVENTER, REF: 9/L2.1
- RAIN BIRD FEB MODEL CONTROL VALVE TO BE USED ON ALL POTABLE WATER IRRIGATION MAINLINES. REFERENCE IRRIGATION SCHEDULE FOR SIZE, FLOW AND PRESSURE REQUIREMENTS, REF: 7/L2.1
- RAIN BIRD XGZ-100-PRB COM DRIP CONTROL VALVE TO BE USED ON ALL POTABLE WATER IRRIGATION MAINLINES, REF: 8/L2.1
- RAIN BIRD XGZ-LF-100-PRF DRIP CONTROL VALVE TO BE USED ON ALL POTABLE WATER IRRIGATION MAINLINES, REF: 8/L2.1
- QUICK COUPLER VALVE LOCATED ON POTABLE WATER SHALL BE RAIN BIRD 44RC WITH YELLOW GAP LOCATED IN 10" ROUND VALVE BOX, REF: 1/L2.2
- INSTALL MANUAL GATE VALVE IN LOCATIONS INDICATED ON IRRIGATION MAINLINES. MANUAL GATE VALVE TO MATCH SIZE OF MAINLINE PIPE, REF: 3/L2.2
- RAIN BIRD SERIES FLOW SENSOR, PER SPECIFICATIONS, REF: 11 & 12/L2.1
- SURGE PROTECTOR. RAIN BIRD LSP-ITURF LINE SURGE PROTECTION, PER SPECIFICATIONS, REF: 10/L2.1
- DECODER-1 SOLENOID. RAIN BIRD FD-10ITURF FIELD DECODER, PER SPECIFICATIONS, REF: 7, 8, & 9/L2.1
- DECODER-2 SOLENOID. RAIN BIRD FD-10ITURF FIELD DECODER, PER SPECIFICATIONS, REF: 7, 8, & 9/L2.1
- DECODER-SENSOR. RAIN BIRD SD-210TURF SENSOR DECODER, PER SPECIFICATIONS, REF: 11 & 12/L2.1
- RAIN BIRD RAIN/FREEZE SENSOR. INSTALL ON BUILDING, PER SPECIFICATIONS. FINAL LOCATION TO BE APPROVED BY LANDSCAPE ARCHITECT, REF: 5/L2.2
- IRRIGATION SYSTEM 2-WIRE COMMUNICATION TERMINUS. IRRIGATION CONTRACTOR SHALL TERMINATE MAINLINE AND CONTROL WIRE IN VALVE BOX. MAINLINE SHALL TERMINATE WITH MANUAL DRAIN VALVE. CONTROL WIRE SHALL TERMINATE WITH FIVE FEET OF CONTROL WIRE COILED IN VALVE BOX.

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Springfield, MO 65804 417.877.9600

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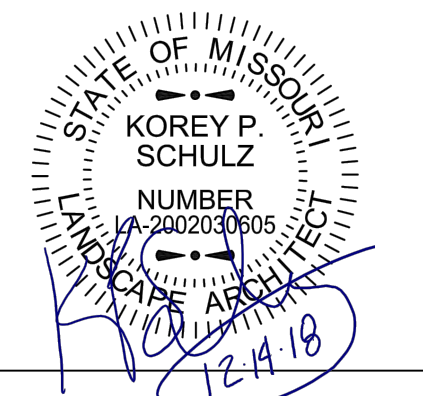
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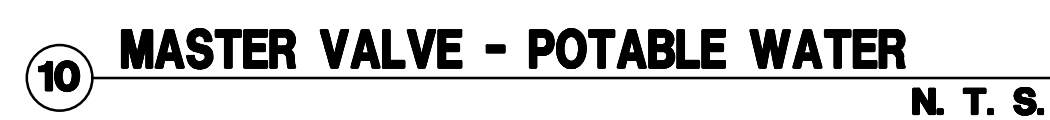
Revision No.	Description	Date
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016-1023	12-21-18	TG

Drawing No.

L601
IRRIGATION PLAN

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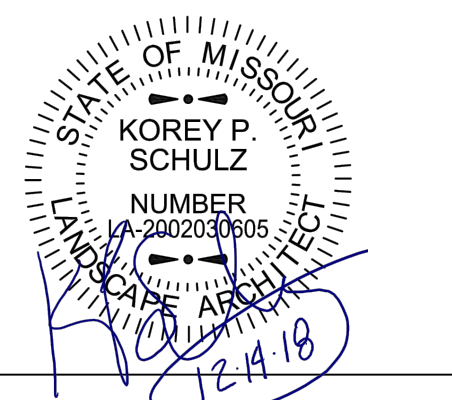
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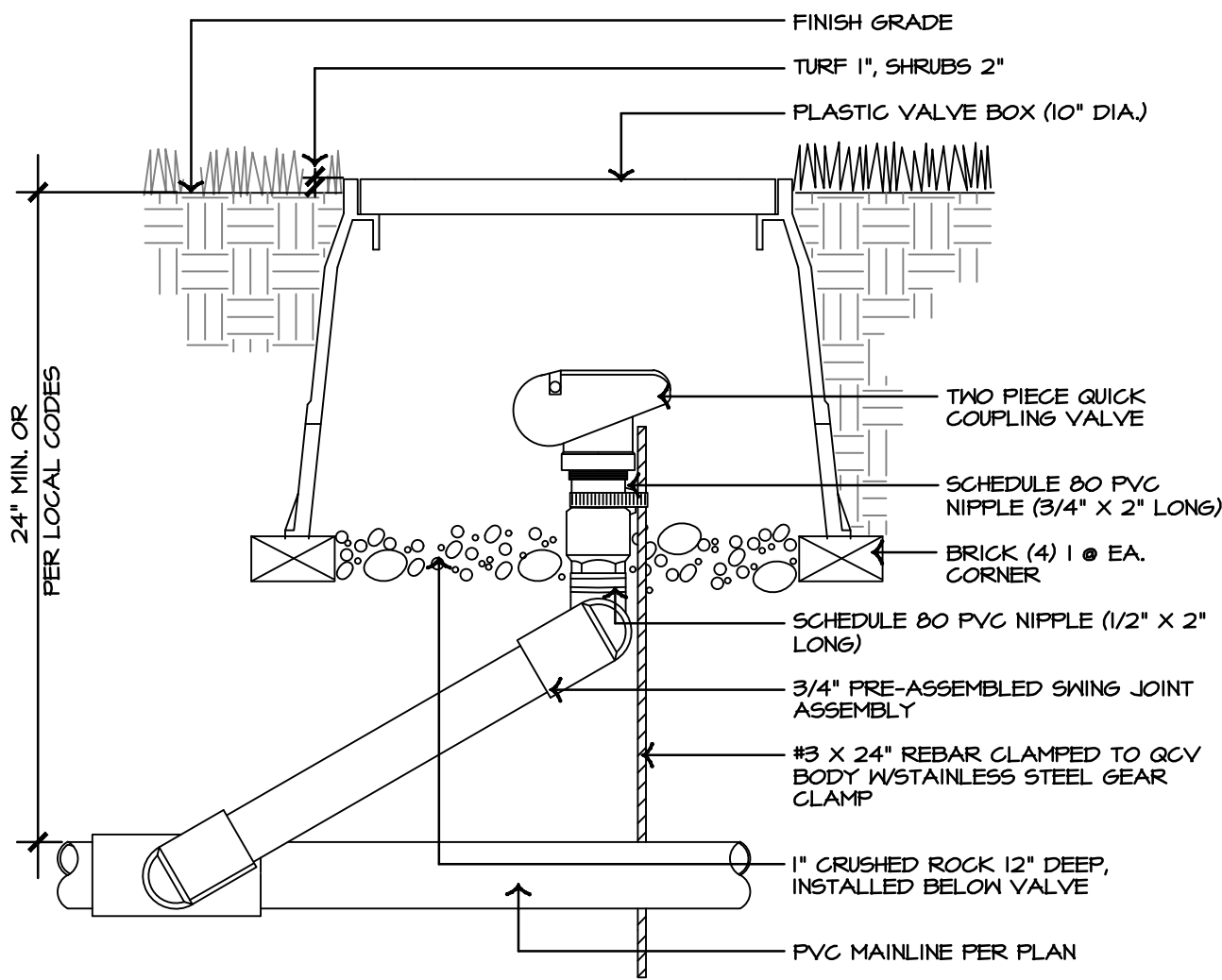
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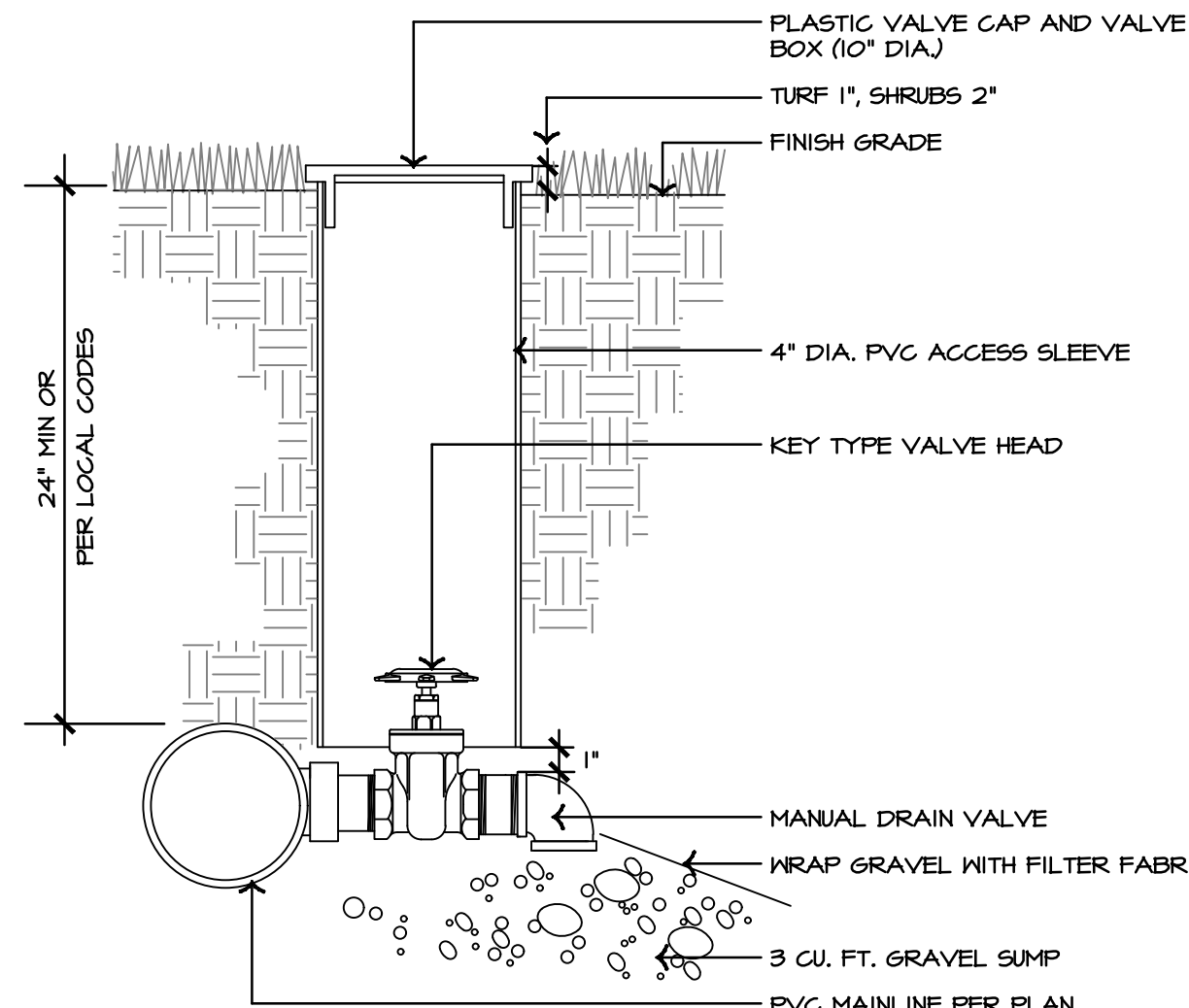
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IRRIGATION DETAILS

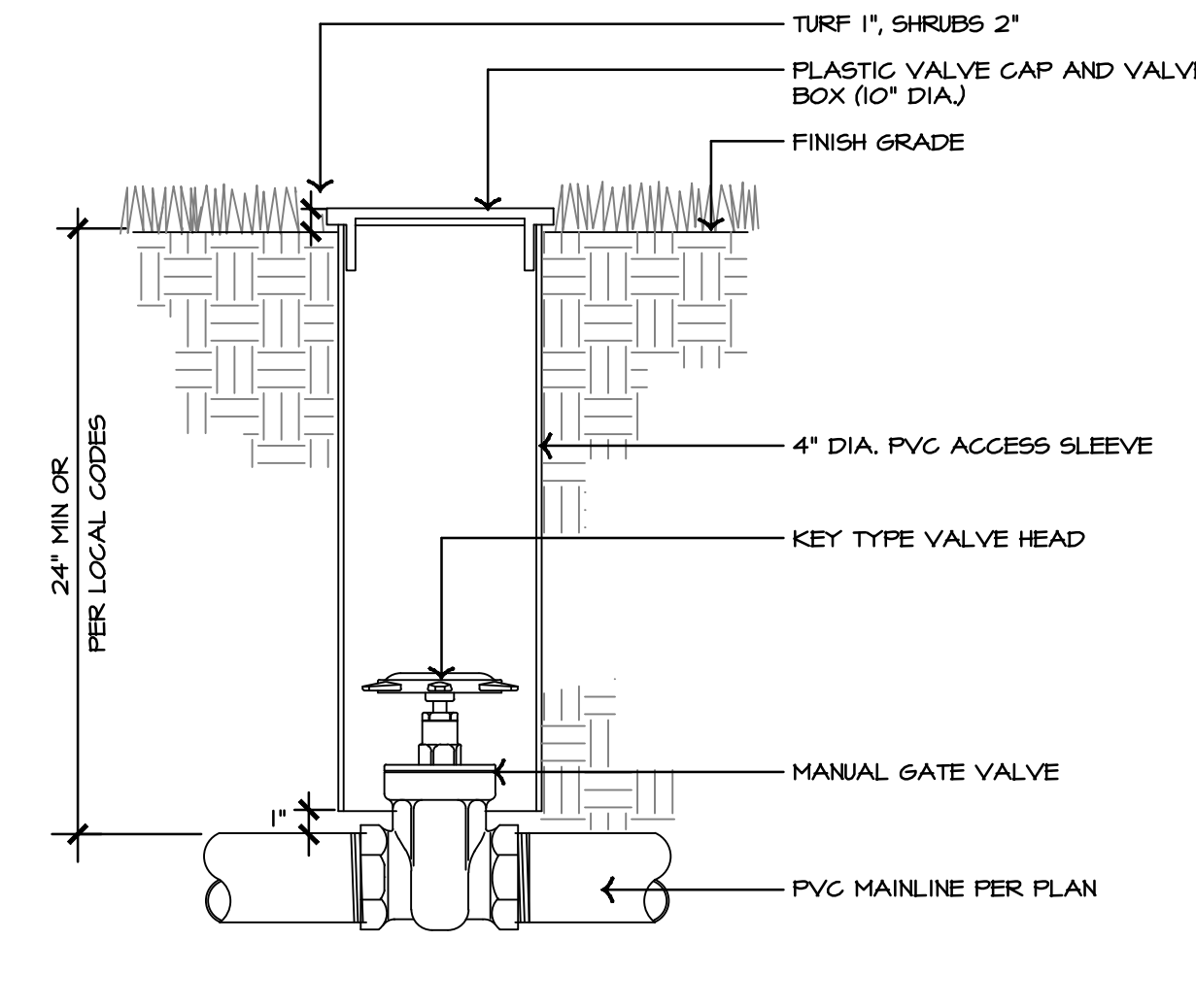
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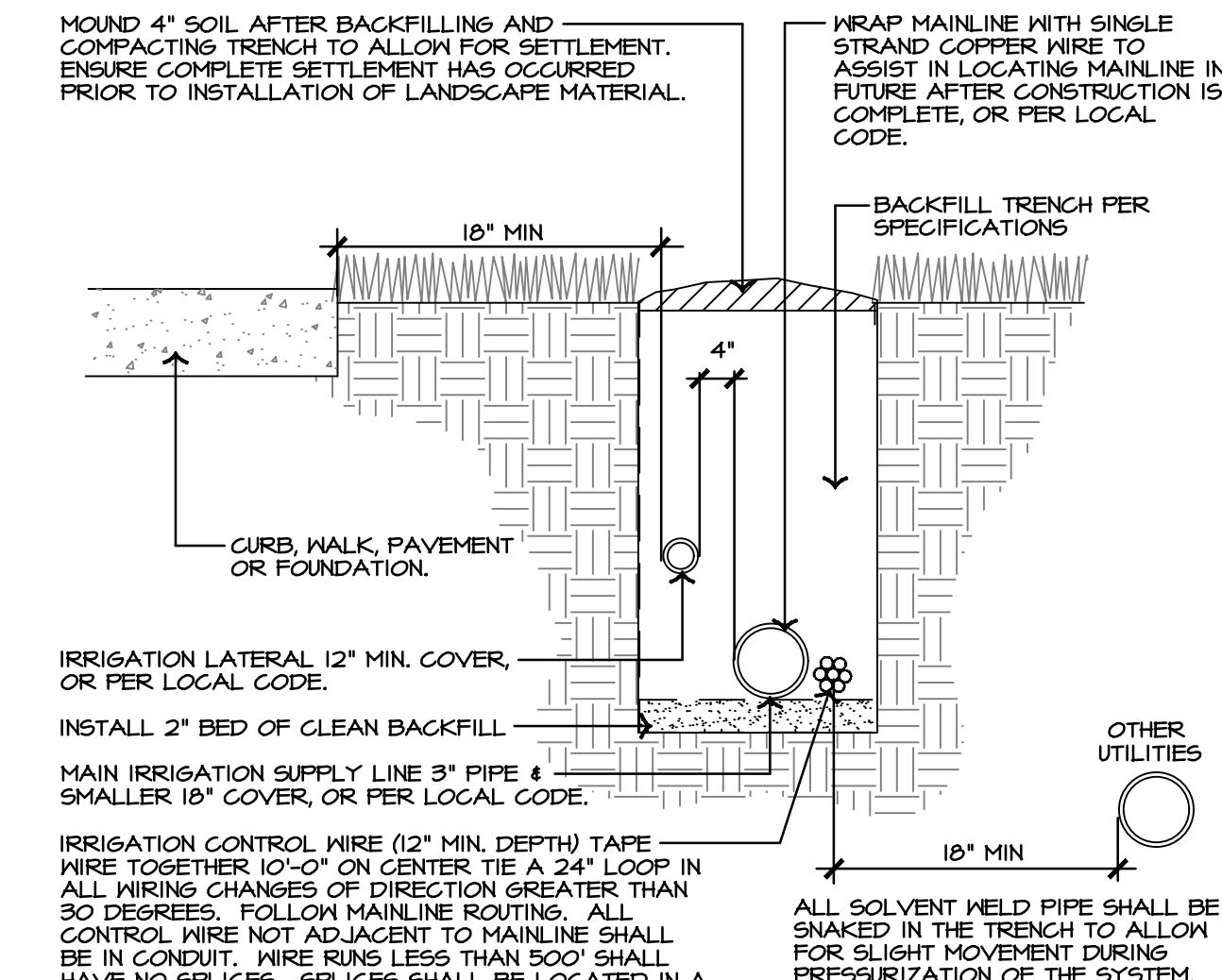
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N. T. S.



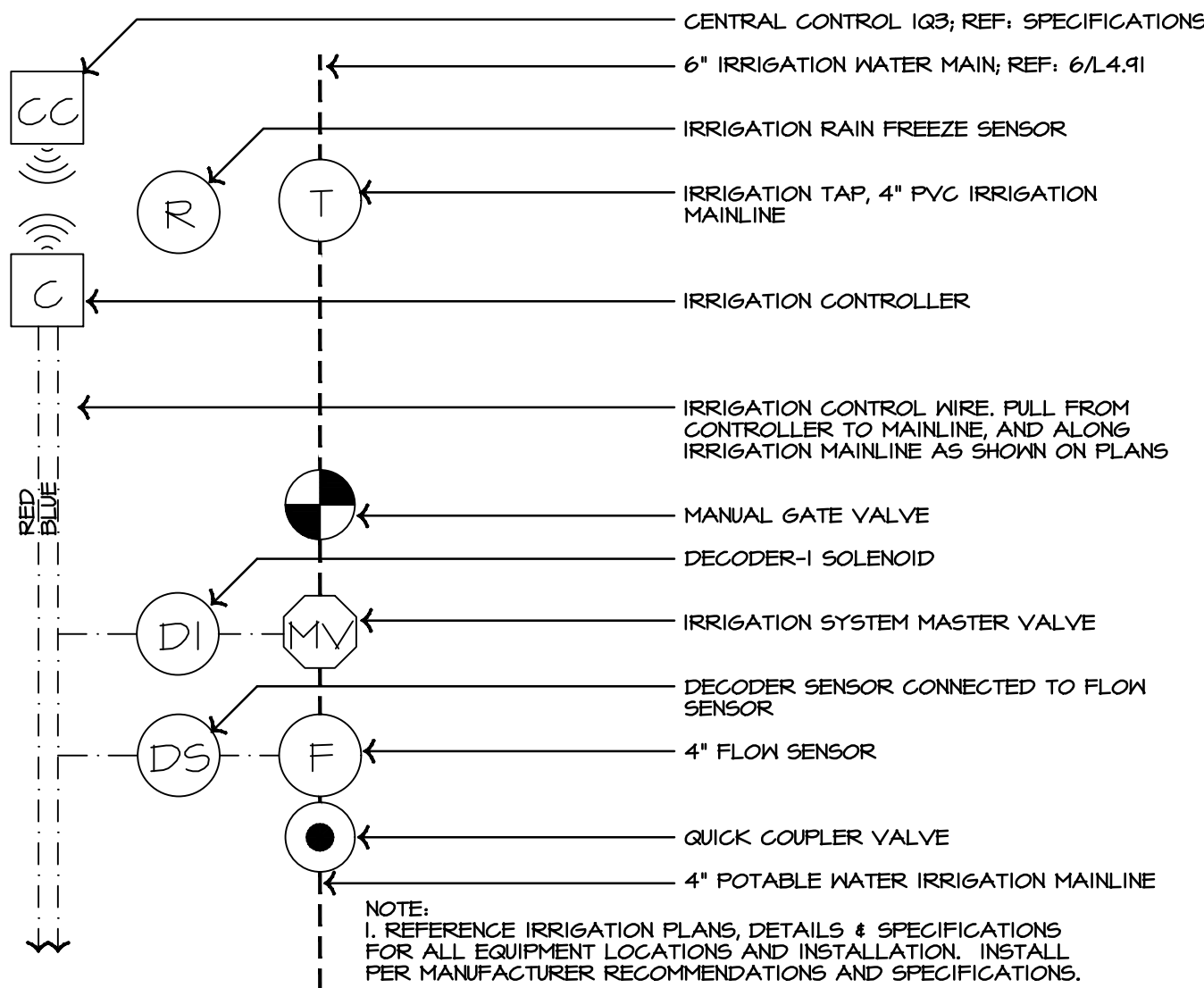
2 MANUAL DRAIN VALVE - POTABLE WATER
N. T. S.



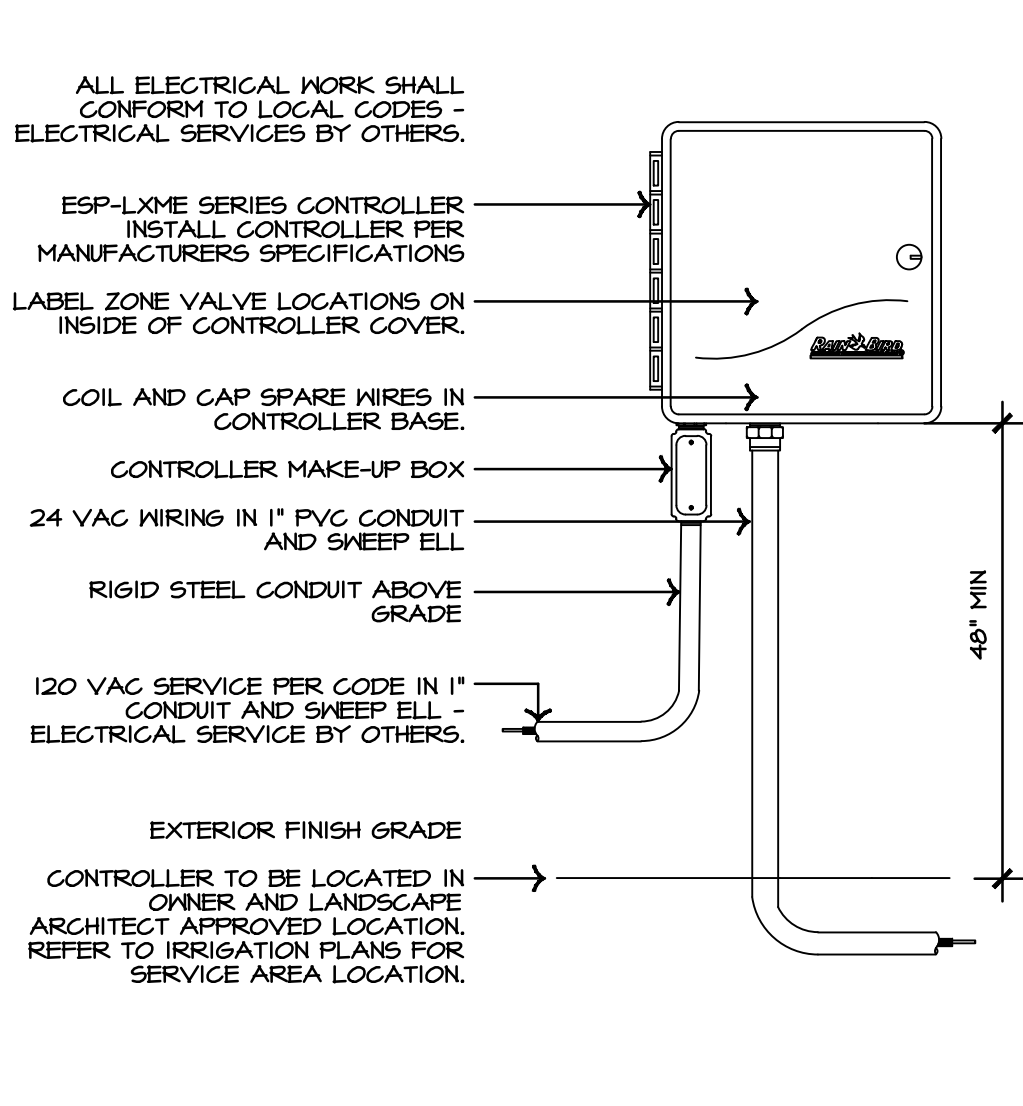
3 MANUAL GATE VALVE - POTABLE WATER
N. T. S.



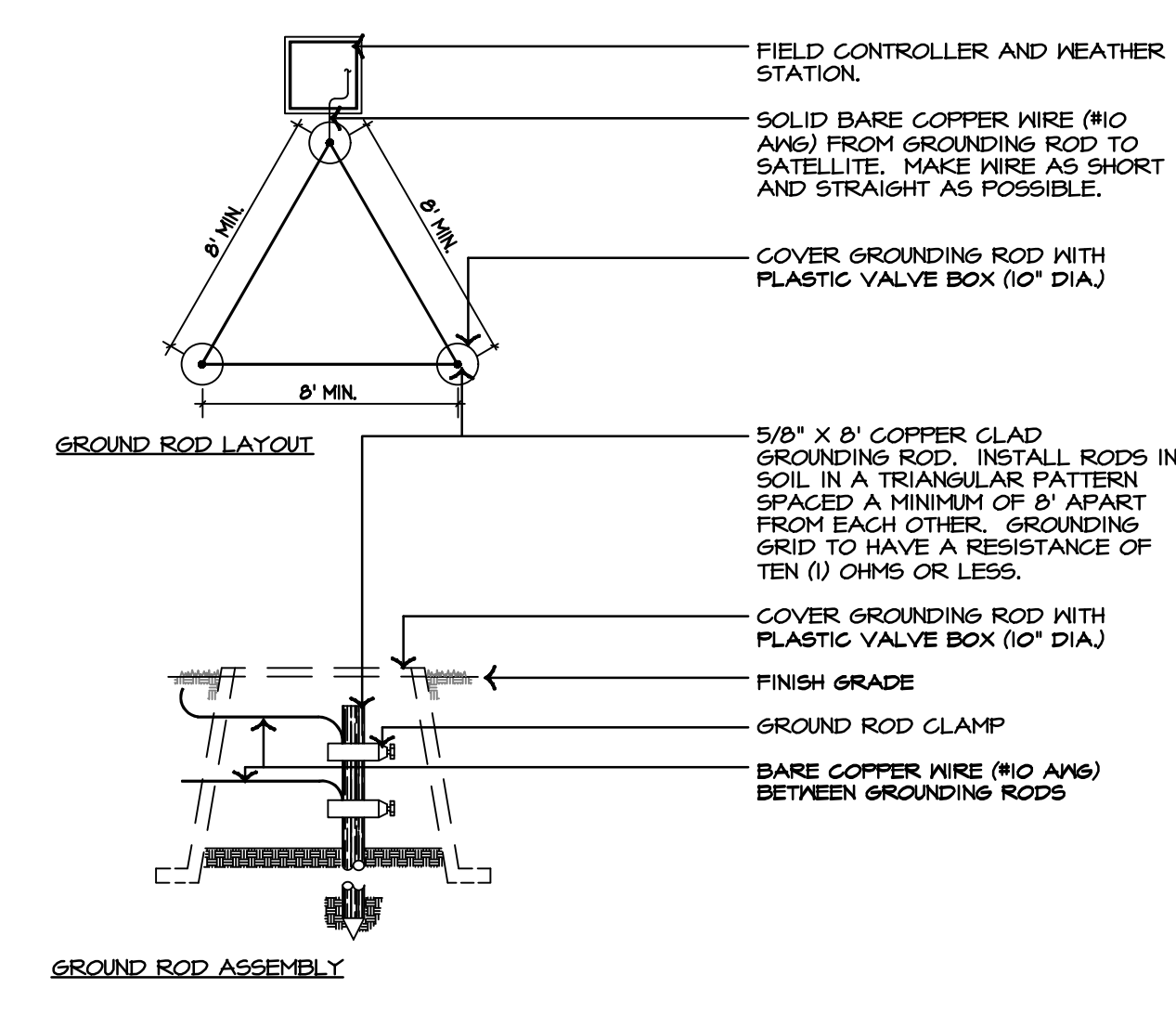
4 TRENCHING DETAIL - POTABLE WATER
N. T. S.



5 TAP LAYOUT - POTABLE WATER
N. T. S.



6 IRRIGATION CONTROLLER
N. T. S.



7 CONTROLLER GROUNDING GRID
N. T. S.

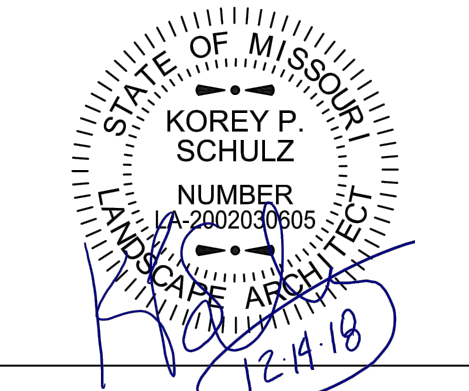
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Revision No.	Description	Date
01	ASI 01	1/14/19

Project No.	Date	Drawn
016-1023	12-21-18	TG

Drawing No.

L691
**IRRIGATION DETAILS
& SCHEDULE**

IRRIGATION CONTROLLER SCHEDULE:

CONTROLLER TYPE: RAIN BIRD LXD														
ZONE NO.	POTABLE (P) OR RECLAIMED (R) WATER	2-WIRE PATH LINE	GPM	MANUFACTURER VALVE TYPE AND SIZE	MINIMUM OPERATING PSI *	MANUFACTURER DISTRIBUTION TYPE MODEL NUMBER	NOZZLE TYPE AND QUANTITY							
1	P	RED	38.54	RAIN BIRD FEB PRS-D 1.5"	45	RAIN BIRD 5006-SAM-PCR	35F 2	35H 5	35Q 1	35T 1				
2	P	RED	32.32	RAIN BIRD FEB PRS-D 1.5"	45	RAIN BIRD 5006-SAM-PCR	35F 2	35H 4	35Q 1					
3	P	RED	25.08	RAIN BIRD FEB PRS-D 1.5"	45	RAIN BIRD 5006-SAM-PCR	30H 8	30Q 1						
4	P	RED	32.40	RAIN BIRD FEB PRS-D 1.5"	45	RAIN BIRD 5006-SAM-PCR	35H 8	35Q 1						
5	P	RED	36.8	RAIN BIRD FEB PRS-D 1.5"	45	RAIN BIRD 5006-SAM-PCR	30F 3	30H 4	35H 2					
6	P	RED	42.16	RAIN BIRD FEB PRS-D 1.5"	45	RAIN BIRD 5006-SAM-PCR	25F 2	25H 6	25Q 2	30F 1	30H 2	35H 2	35Q 1	
7	P	RED	8.50	RAIN BIRD XCZ-100-FRB-COM	40	RAIN BIRD XFD-04-24	1108 LN. FT							
8	P	RED	4.51	RAIN BIRD FEB PRS-D 1.0"	30	RAIN BIRD 1806-SAM-PRS	8H 7	8Q 2	8T 1					
9	P	RED	16.51	RAIN BIRD FEB PRS-D 1.0"	45	RAIN BIRD 5006-SAM-PCR	25F 1	25H 6	25Q 1	25T 1	30F 1	30H 3	30Q 3	30T 2
10	P	RED	16.51	RAIN BIRD FEB PRS-D 1.0"	30	RAIN BIRD 1806-SAM-PRS	5H 1	8H 2	10Q 1	10T 1	10H 2	15EST 1	1566T 12	
11	P	RED	1.40	RAIN BIRD XCZ-LF-100-PRF	40	RAIN BIRD XFD-04-24	183 LN. FT							
12	P	RED	16.51	RAIN BIRD FEB PRS-D 1.0"	30	RAIN BIRD 1806-SAM-PRS	10Q 2	10H 4	12H 5	12TT 1	15H 1	15TT 1		
13	P	RED	5.56	RAIN BIRD XCZ-100-FRB-COM	40	RAIN BIRD XFD-04-24	126 LN. FT							
14	P	RED	13.48	RAIN BIRD FEB PRS-D 1.0"	30	RAIN BIRD 1806-SAM-PRS	10Q 4	12Q 1	12H 4	12TH 1				
15	P	BLUE	4.64	RAIN BIRD FEB PRS-D 1.0"	30	RAIN BIRD 1806-SAM-PRS	15EST 2	1566T 7						
16	P	BLUE	13.48	RAIN BIRD FEB PRS-D 1.0"	30	RAIN BIRD 1806-SAM-PRS	10Q 1	10TH 1	10H 5	12H 2	15Q 2			
17	P	BLUE	4.30	RAIN BIRD XCZ-100-FRB-COM	40	RAIN BIRD XFD-04-24	1213 LN. FT							
18	P	BLUE	14.10	RAIN BIRD FEB PRS-D 1.0"	30	RAIN BIRD 1806-SAM-PRS	15Q 2	15TH 2	15H 6	15TT 1	15EST 2			
19	P	BLUE	2.43	RAIN BIRD FEB PRS-D 1.0"	30	RAIN BIRD 1806-SAM-PRS	15EST 2	1566T 1						
20	P	BLUE	1.04	RAIN BIRD XCZ-LF-100-PRF	40	RAIN BIRD XFD-04-24	143 LN. FT							
21	P	BLUE	42.48	RAIN BIRD FEB PRS-D 1.5"	45	RAIN BIRD 5006-SAM-PCR	25H 20	25Q 2	25T 1					
22	P	BLUE	14.37	RAIN BIRD FEB PRS-D 1.0"	30	RAIN BIRD 1806-SAM-PRS	15EST 2	1566T 15						
23	P	BLUE	1.20	RAIN BIRD XCZ-LF-100-PRF	40	RAIN BIRD XFD-04-24	156 LN. FT							
24	P	BLUE	2.00	RAIN BIRD FEB PRS-D 1.5"	45	RAIN BIRD 5006-SAM-PCR	25Q 2	25H 20						
25	P	BLUE	1.43	RAIN BIRD XCZ-LF-100-PRF	40	RAIN BIRD XFD-04-24	184 LN. FT							
26	P	BLUE	1.43	RAIN BIRD XCZ-LF-100-PRF	40	RAIN BIRD XFD-04-24	184 LN. FT							
27	P	BLUE	4.32	RAIN BIRD XCZ-LF-100-PRF	40	RAIN BIRD XFD-04-24	564 LN. FT							
28	P	BLUE	4.32	RAIN BIRD XCZ-LF-100-PRF	40	RAIN BIRD XFD-04-24	564 LN. FT							
29	P	BLUE	3.63	RAIN BIRD XCZ-LF-100-PRF	40	RAIN BIRD XFD-04-24	474 LN. FT							
30	P	BLUE	2.88	RAIN BIRD XCZ-LF-100-PRF	40	RAIN BIRD XFD-04-24	376 LN. FT							
31-50	SPARE													

* MINIMUM OPERATING PRESSURE NEEDED AT CONTROL VALVE

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STATE OF MISSOURI

KOREY P. SCHULZ

NUMBER 12-202036005

12-14-18

ochsner hare + hare

the olsson studio

Ochsner Hare & Hare
Missouri State Certificate of Authority #2005000285

Revision No.	Description	Date
01	ASI 01	1/14/19

Project No. 016-1023	Date 12-21-18	Drawn TG
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Drawing No.

L692

IRRIGATION
SCHEDULE

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GENERAL NOTES

1.

REFER TO G102 FOR INTERIOR PARTITION TYPES.

2.

EXTERIOR WALL CONSTRUCTION IS DESCRIBED BY WALL SECTIONS. ALL GYP BD ON INTERIOR SIDE OF EXTERIOR WALLS SHALL BE 5/8" ABUSE RESISTANT GYP BD UP TO 8'-0" A.F.F. AND REGULAR GYP BD ABOVE EXTENDED UP TO BOTTOM OF DECK.

3.

INTERIOR WALL TYPES ARE DESCRIBED BY THIS SCHEDULE. ANY WALL NOT INDICATED OR KEYED FOR TYPE AND CONSTRUCTION SHALL BE CLARIFIED BY INTERPRETATION FROM THE ARCHITECT.

4.

ALL WALLS INCLUDING GYP BD SHEATHING SHALL EXTEND TO UNDERSIDE OF ROOF DECKING, UNLESS INDICATED OTHERWISE.

5.

THESE TYPES INDICATE PRIMARY WALL TYPES. OVERLAID VENEERS, WAINSCOT, PILASTERS AND OTHER VARIANTS AND SPECIAL CONDITIONS ARE INDICATED ON THE PLANS AND DETAILS.

6.

JOINTS AND PENETRATIONS AT ALL RATED WALLS SHALL BE SEALED AND PROTECTED PER SPECIFICATIONS, U.L. TESTED ASSEMBLIES AND CODE REQUIREMENTS.

7.

ALL GYP BDMTL STUD WALLS W/ PLUMBING FIXTURES SHALL RECEIVE MOISTURE RESISTANT GYP BD.

8.

CUT GYPSUM BOARD TO ALLOW FOR A MINIMUM 1/4" IN GAP BETWEEN GYPSUM BOARD AND FLOOR TO PREVENT POTENTIAL WICKING.

9.

LOCATE GYPSUM BOARD JOINTS AT OPENINGS SO THAT NO JOINT WILL OCCUR WITHIN 12" IN OF THE EDGES OF THE OPENING UNLESS INSTALLING CONTROL JOINTS AT THESE LOCATIONS. STAGGER VERTICAL END JOINTS. JOINTS ON OPPOSITE SIDES OF A PARTITION SHOULD NOT OCCUR ON THE SAME STUD.

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STATE OF MISSOURI

MICHAEL
JOHN HEVLE
NUMBER
A-5451
REGISTERED ARCHITECT

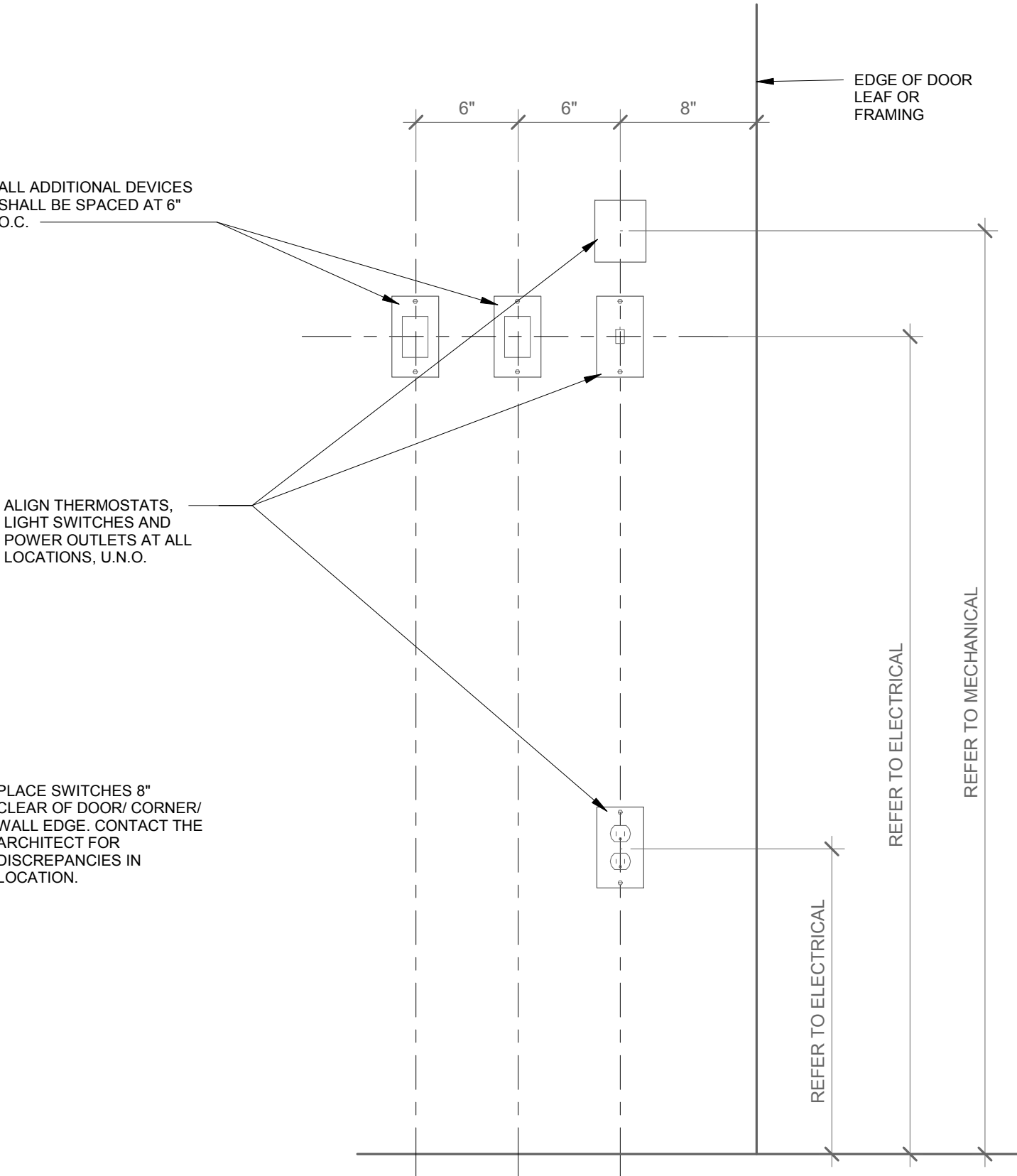
Revision No.	Description	Date
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Project No.	Date	Drawn
WP04	12-07-2018	TLK

Drawing No.

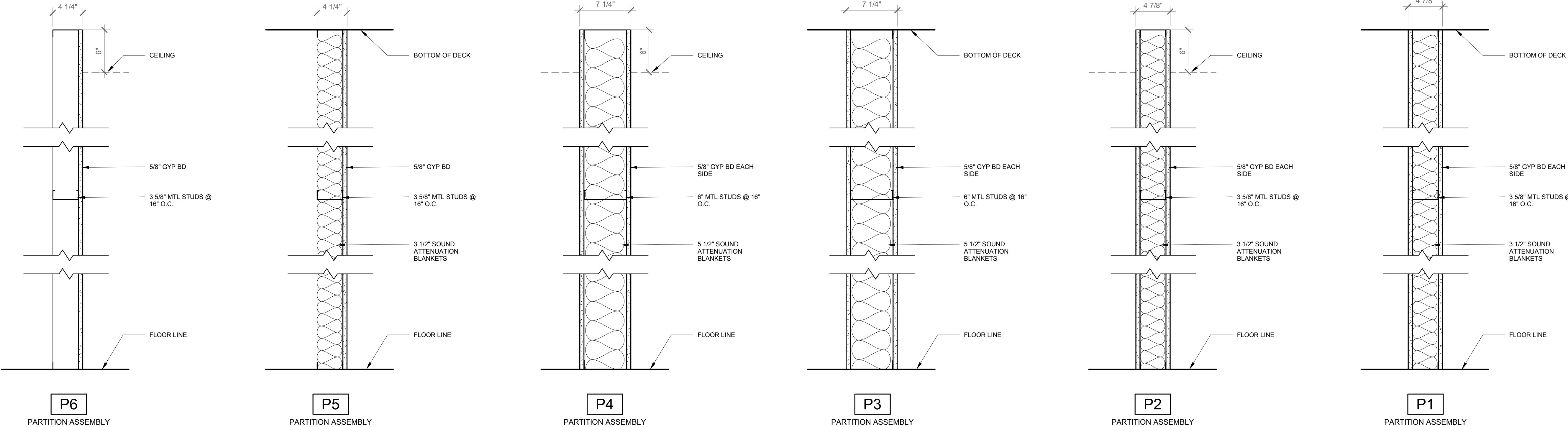
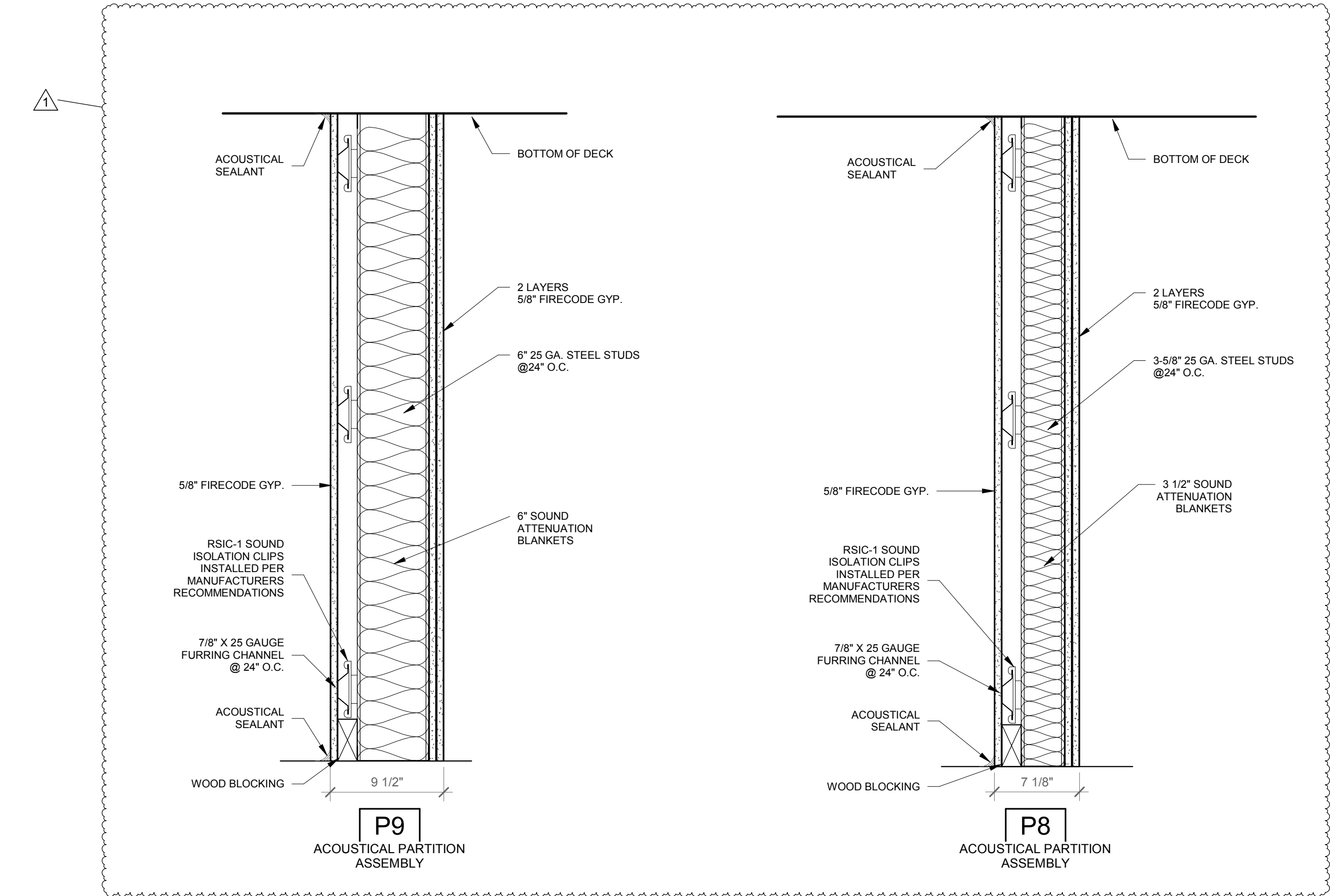
A000
PARTITION TYPES

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1 TYPICAL ELECTRICAL POWER DEVICE ELEVATION
1 1/2" = 1'-0"

- GENERAL NOTES**
1. INTENT OF DRAWING IS TO SHOW RELATIONSHIPS BETWEEN VARIOUS ITEMS TO BE MOUNTED IN THE WALL. NOT ALL ITEMS MAY OCCUR AT EACH LOCATION.
 2. REFER TO INTERIOR ELEVATIONS FOR LOCATIONS OF ITEMS NOT ADJACENT TO DOOR FRAMES.
 3. IF ONE OR MORE DEVICES SHOWN DO NOT EXIST AT A GIVEN LOCATION THEN THE DEVICES THAT DO EXIST SHIFT OVER TO OCCUPY THE SPACE CLOSEST TO THE DOOR FRAME.
 4. IN LOCATIONS WHERE CARD ACCESS AND OTHER DEVICES ARE LOCATED ADJACENT TO A DOOR FRAME, DEVICES ASSOCIATED W/ OPENING THE DOOR OR CONTACTING SOMEONE ARE LOCATED CLOSEST TO THE FRAME.
 5. ALL DIMS. LISTED ARE TO CENTERLINE OF BACKBOX, U.N.O.
 6. FOR MULT-SWITCH LIGHT SWITCHES, THE FIRST SWITCH WILL LAY ON THE VERTICAL AND HORIZONTAL ALIGNMENT GRID. ANY OTHER DEVICES WILL BE LOCATED AT THE NEXT GRID INTERSECTION.
 7. CONFIRM MOUNTING HEIGHTS OF ITEMS NOT SHOWN W/ ARCHITECT PRIOR TO INSTALLATION.
 8. CONFIRM ALL MOUNTING HEIGHT LOCATIONS W/ ARCHITECT PRIOR TO INSTALLATION.
- * DRAWING ALSO ONLY SHOWS MOUNTING HEIGHTS AND PLACEMENT. REFER TO OTHER TRADE DRAWINGS FOR BACK BOX SIZE/TYPE, CONDUIT SIZE/LOCATIONS AND OTHER INFORMATION RELATED TO THE SPECIFIC CONSTRUCTION REQUIREMENTS OF EACH DEVICE.





- GENERAL NOTES
- 1

ALL DIMENSIONS INDICATED IN CONTRACT DOCUMENTS ARE FROM FACE OF STUD TO FACE OF STUD FOR INTERIOR PARTITIONS, FACE OF EXISTING STRUCTURE OR FINISH, FACE OF CONCRETE OR BLOCK, OR TO STRUCTURAL LINE, EXCEPT AS NOTED OTHERWISE. EXTERIOR DIMENSIONS ARE TO FACE OF CMU. DIMENSIONS OF EXISTING STRUCTURE, ETC. ARE ± AND SHOULD BE FIELD VERIFIED PRIOR TO COMMENCEMENT OF WORK AND ARCHITECT NOTIFIED OF ANY DISCREPANCIES.
- 2

SEE GENERAL NOTES ON G100 FOR WORK PERTAINING TO EXISTING CONDITIONS, DIMENSIONS, ETC.

- KEYNOTES
- 1

SEMI RECESSED FIRE EXTINGUISHER, CABINET AND EXTINGUISHER - SEE SPEC.
- 2

PAINTED EXPOSED STEEL COLUMNS - SEE STRUCTURAL
- 3

RFID SECURITY GATES PROVIDED BY OWNER
- 4

AUTOMATIC SLIDING DOOR SYSTEM, REFER TO DOOR & WINDOW SCHEDULE. SEE SPECIFICATIONS FOR MORE INFORMATION
- 5

INSTALL MECHOSHADE RECESSED POCKET WITH WHITE FASCIA AND MANUAL THERMOVEIL BASKET WEAVE 1300 SERIES SHADE (5% OPEN) COLOR: SILVER BIRCH THE FULL WIDTH AND HEIGHT OF THE STOREFRONT OPENING, PER SPECIFICATIONS. ENSURE SEAMS OF SHADE PANELS ARE CENTERED ON THE MULLIONS OF THE STOREFRONT
- 6

INSTALL MOTORIZED MECHOSHADE EXPOSED POCKET IN SATIN ANODIZED ALUM FINISH WITH THERMOVEIL BASKET WEAVE 1300 SERIES SHADE (5% OPEN) COLOR: SILVER BIRCH THE FULL WIDTH AND HEIGHT OF THE STOREFRONT OPENING, PER SPECIFICATIONS. ENSURE SEAMS OF SHADE PANELS ARE CENTERED ON THE MULLIONS OF THE STOREFRONT

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JOHN HEULE

NUMBER
A-5451

REGISTERED ARCHITECT

2-13-2019

Revision No. Description Date

1 ASI001 01-14-2019

3 ASI003 02-13-2019

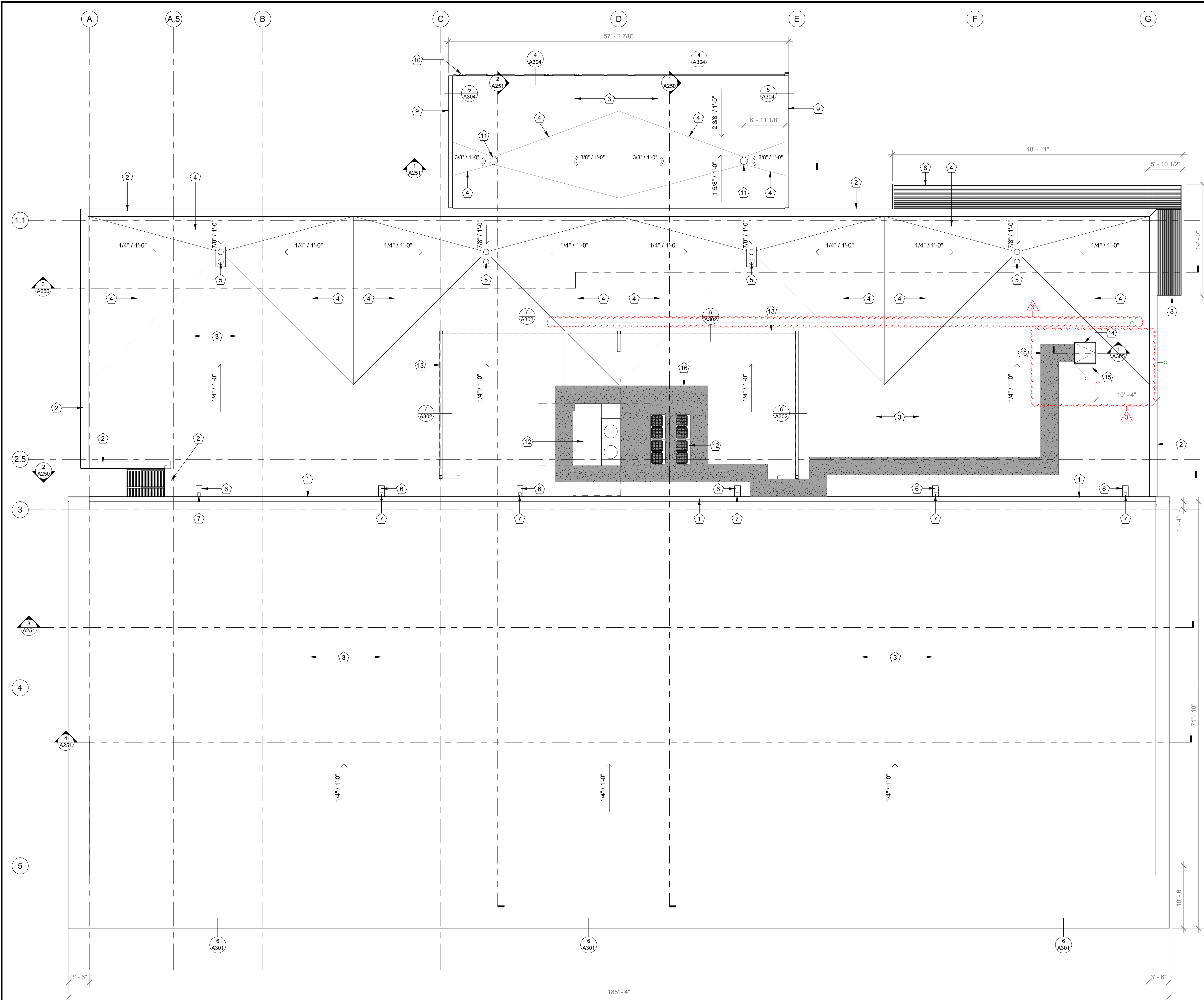
Project No. Date Drawn

WP04 12-07-2018 TLK

Drawing No.

A100
FLOOR PLAN

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1 ROOF PLAN
1/8" = 1'-0"

ROOF PLAN KEYNOTES	
1	6" DEEP X 8" WIDE PREFINISHED SEAMLESS SHEET METAL GUTTER
2	PREFINISHED METAL PARAPET CAP
3	ROOFING SYSTEM ON RIGID INSUL - SEE SPEC
4	ROOF SYSTEM OVER TAPERED INSUL - SEE SPEC
5	ROOF DRAIN PER DETAIL ON SHEET A305, SEE PLUMBING FOR MORE INFORMATION
6	PROVIDE 12"X24" SHEET METAL SPLASH PAN PER DETAIL ON SHEET A305
7	4" X 6" PREFINISHED DOWNSPOUTS
8	PREMANUFACTURED ALUMINUM CANTILEVERED CANOPY: SUPER LUMIDECK FLAT SOFFIT (WHITE), SEE SPECS
9	ENTRY CANOPY, SEE WALL SECTIONS AND STRUCTURAL
10	SIGNAGE LETTERING AT TOP OF CANOPY, SEE SIGNAGE DRAWINGS
11	ROOF DRAIN, SEE WALL SECTIONS FOR MORE INFORMATION. SEE CIVIL FOR UNDERGROUND DRAINAGE
12	RTU - SEE MECHANICAL
13	MECHANICAL SCREEN, SEE WALL SECTIONS AND STRUCTURAL FOR MORE INFORMATION
14	ROOF HATCH, SEE WALL SECTIONS AND STRUCTURAL FOR MORE INFORMATION
15	INSTALL TAPERED INSUL CRICKET ON HIGH SIDE OF ROOF HATCH
16	WALK PAD - SEE SPEC

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NUMBER A-5051
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2-13-2019

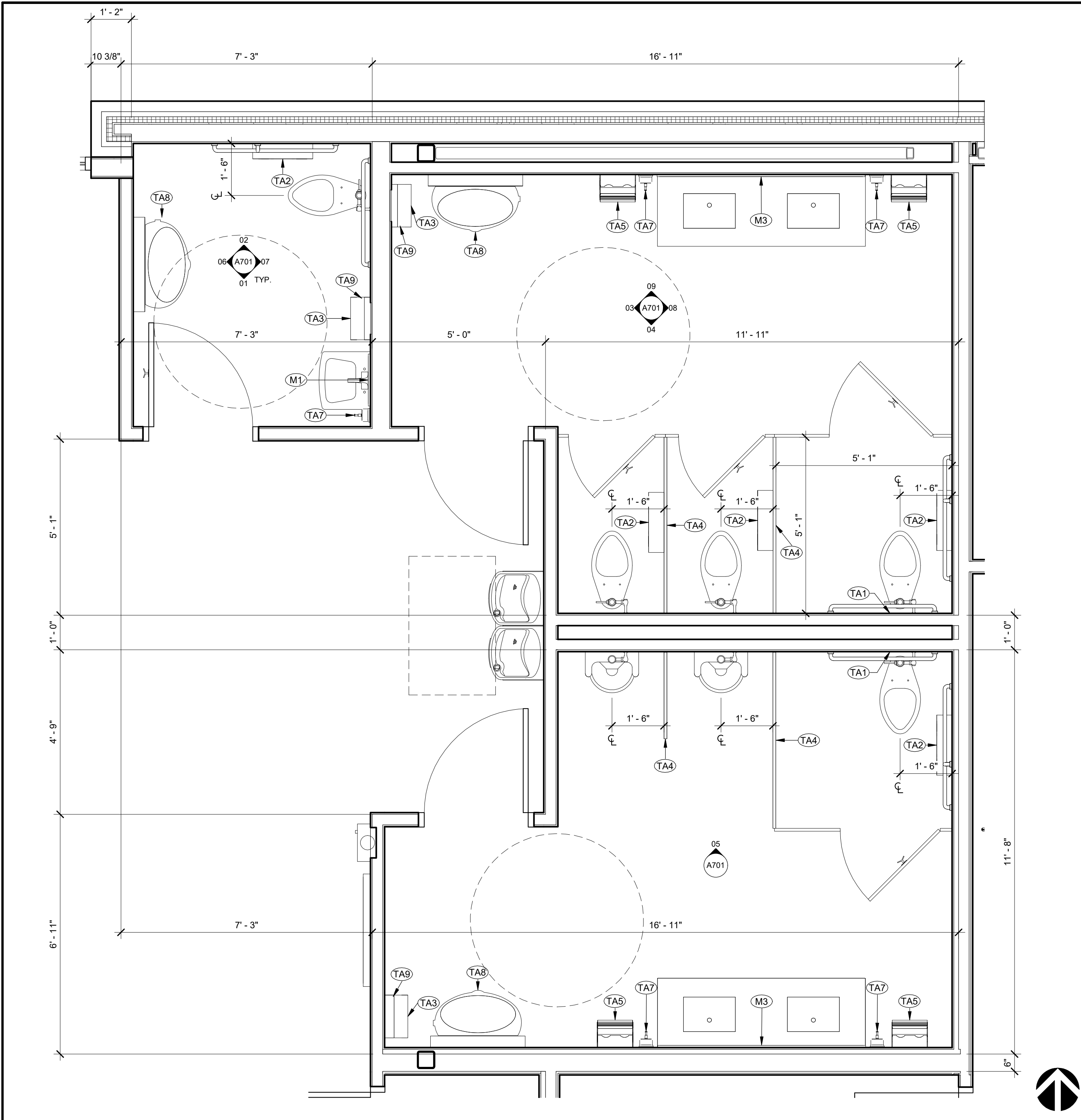
Michael James Sapp, Architect MO A-5051

Revision No.	Description	Date
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Project No.	Date	Drawn
WP04	12-07-2018	Author

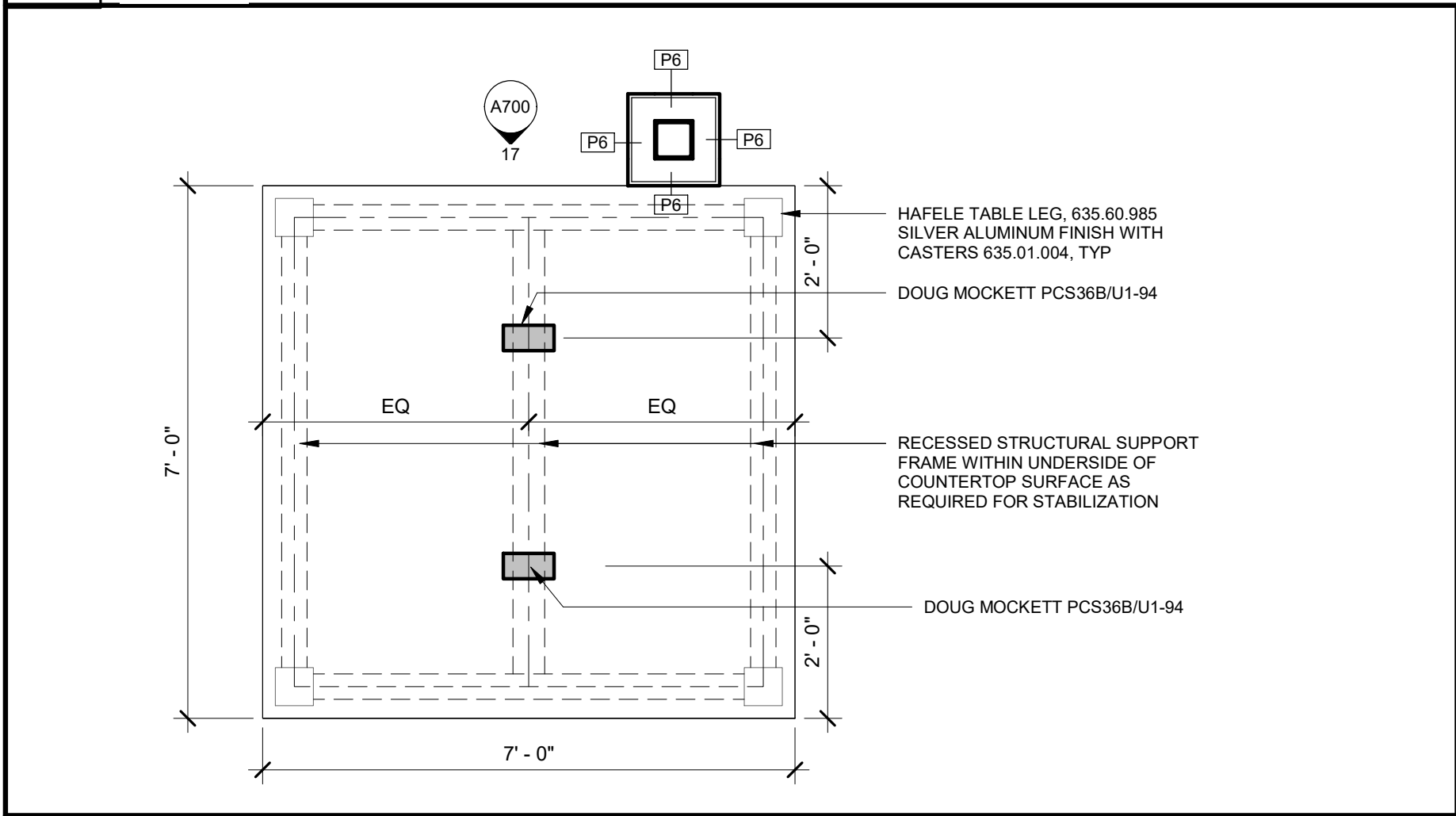
Drawing No.
A105
ROOF PLAN

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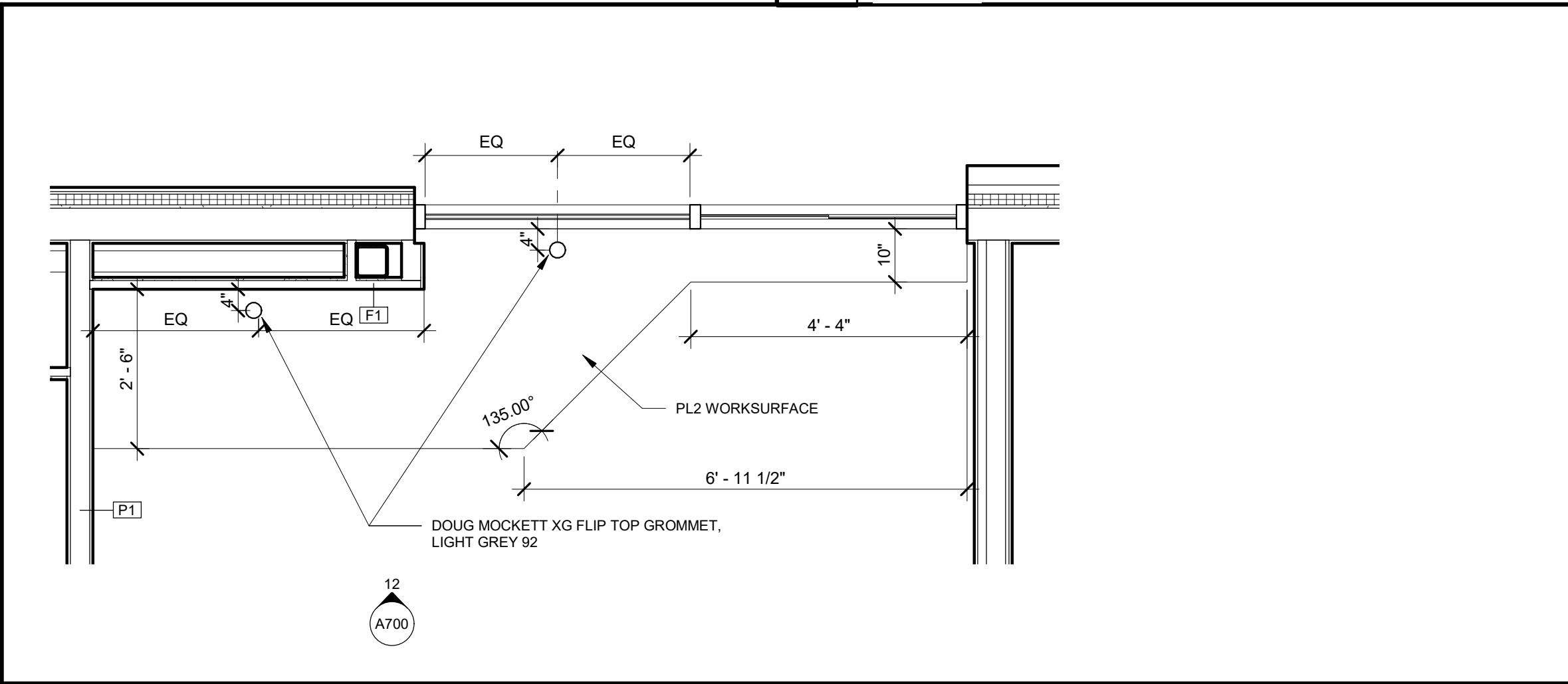
05 ENLARGED PLAN - RESTROOMS

1/2" = 1'-0"



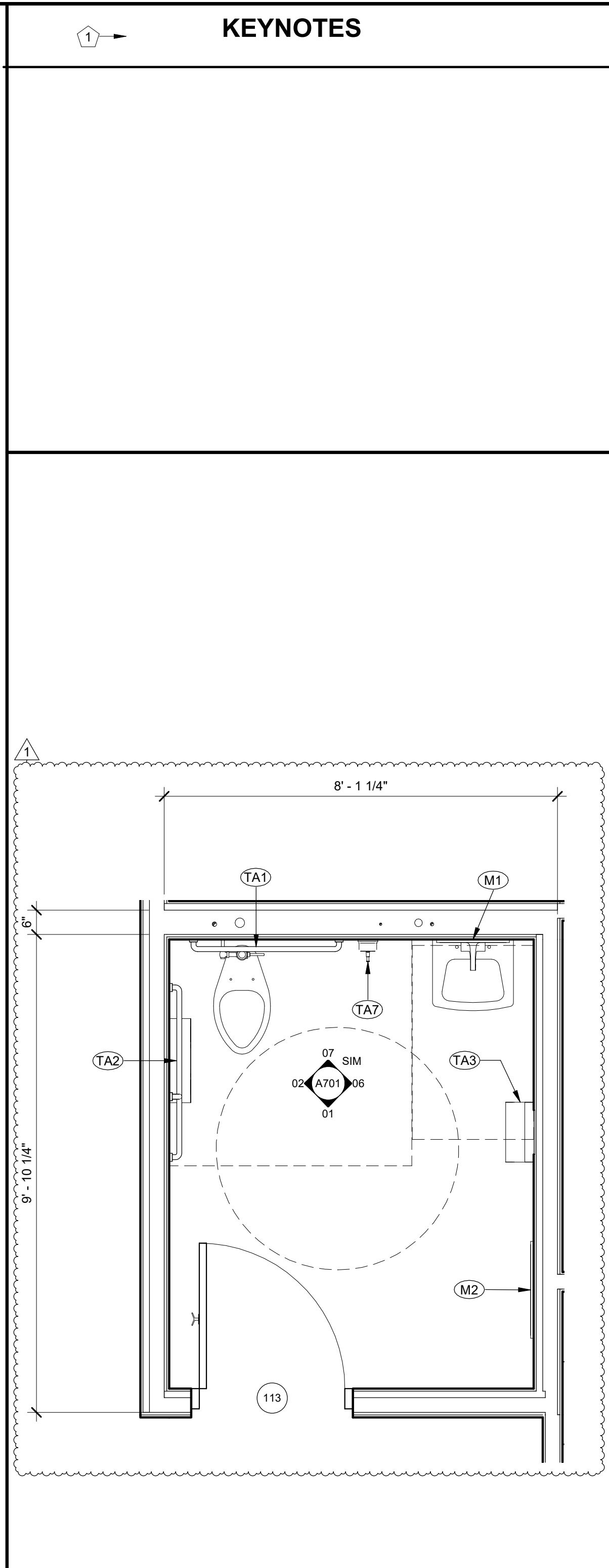
04 ENLARGED PLAN - WORKROOM ISLAND

1/2" = 1'-0"



03 ENLARGED PLAN - DRIVE UP WINDOW

1/2" = 1'-0"



06 ENLARGED EMPLOYEE RR

1/2" = 1'-0"

KEYNOTES

EQUIPMENT SCHEDULE

Type Mark	Description	Comments	Provided	Installed
M1	MIRROR 18"x42" - SEE SPEC		GC	GC
M2	MIRROR 24"x60" - SEE SPEC			
M3	MIRROR 72"x42" - SEE SPEC		GC	GC
TA1	ADA GRAB BARS		GC	GC
TA2	TOILET PAPER DISPENSER - BY OWNER, INSTALLED BY CONTRACTOR			
TA3	PAPER TOWEL DISPENSER			
TA4	TOILET PARTITION - REF SPEC		GC	GC
TA5	ELECTRIC HAND DRYER - SEE SPEC		GC	GC
TA7	SOAP DISPENSER - BY OWNER, INSTALLED BY CONTRACTOR			
TA8	BABY CHANGING TABLE - SEE SPEC		GC	GC
TA9	BOBRICK B-279 CLASSIC SERIES SURFACE MOUNTED WASTE RECEPTACLE		GC	GC

02 OBLIQUE OF TEEPEE

WD2. DIRECTION OF TONGUE AND GROOVE PLANKS. SAND SMOOTH TO BLEND SEAMING

INTERIOR BACK FACE OF TEEPEE TO BE CLAD IN WC3

RECESSED BOOK CUBBIES

CARPET FLOORING AS SPECIFIED WITHIN THE INTERIOR OF THE TEEPEE

01 ENLARGED PLAN @ TEEPEE NICHE

END OF TEEPEE SLANTS BEYOND BOOK DISPLAY

RECESSED BOOK DISPLAY CUBBIES

DIRECTION OF TONGUE AND GROOVE PLANKS

RECESSED BOOK DISPLAY CUBBIES

END OF TEEPEE SLANTS BEYOND BOOK DISPLAY

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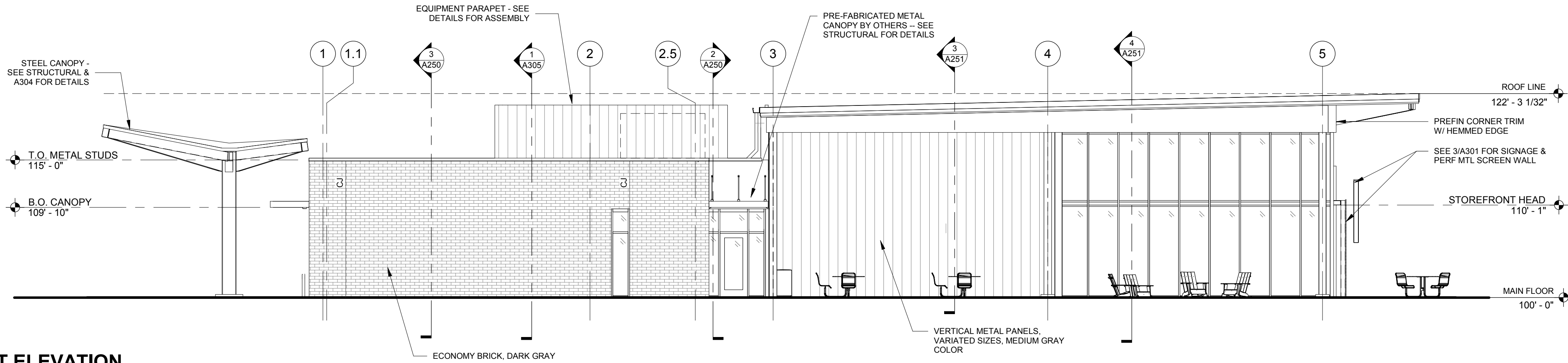
NUMBER A-5451

Revision No.	Description	Date
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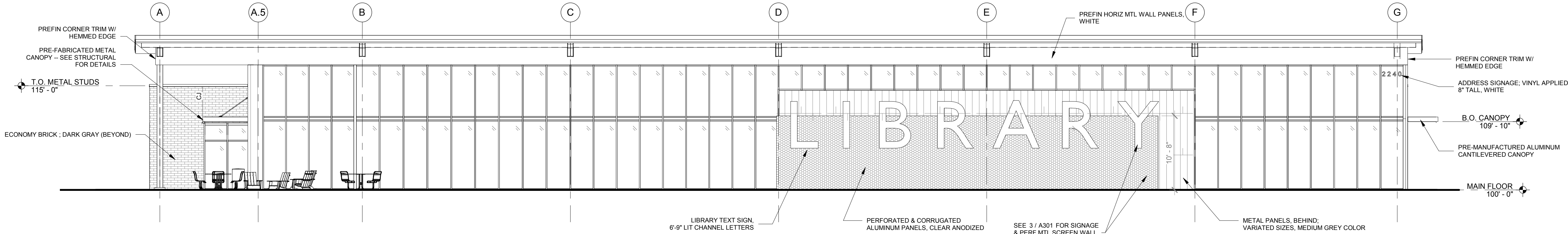
Project No.	Date	Drawn
WP04	12-07-2018	TLK

Drawing No. **A150**
ENLARGED PLANS

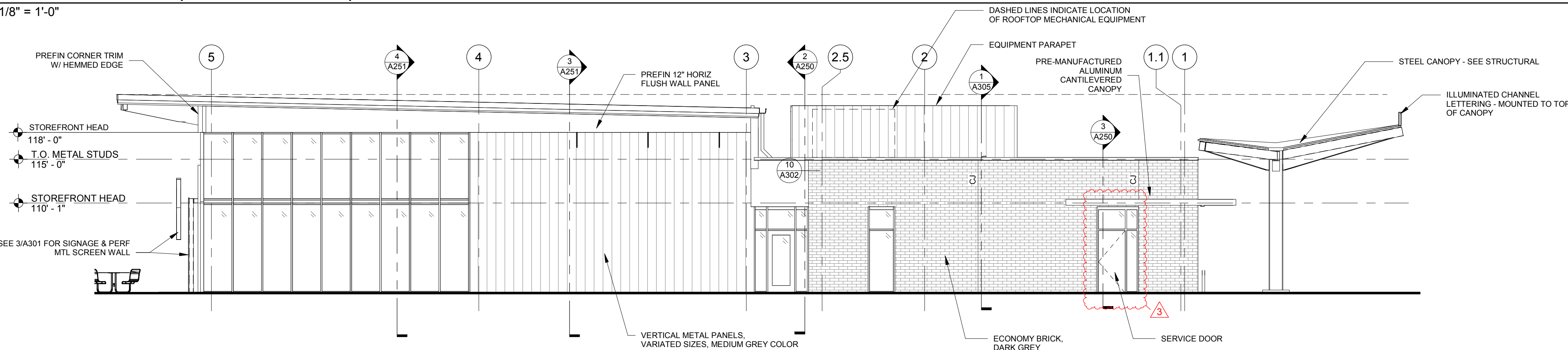
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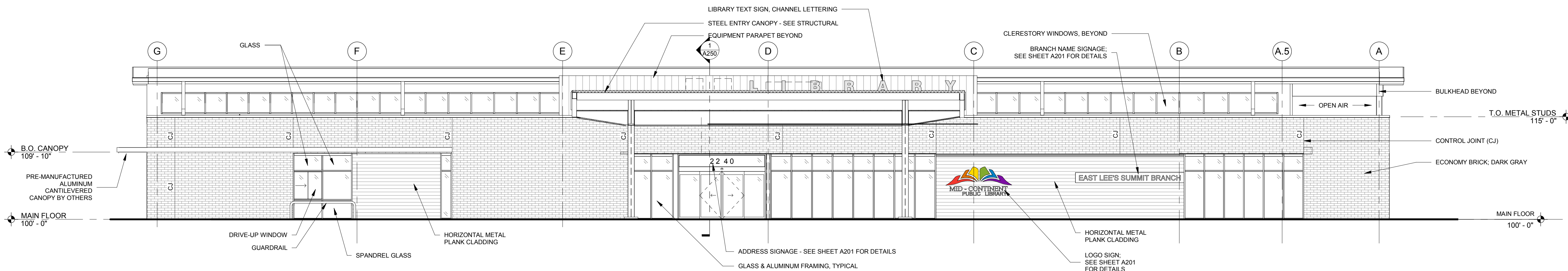
4 WEST ELEVATION
1/8" = 1'-0"



3 SOUTH ELEVATION (HIGHWAY 50 SIDE)
1/8" = 1'-0"



2 EAST ELEVATION
1/8" = 1'-0"



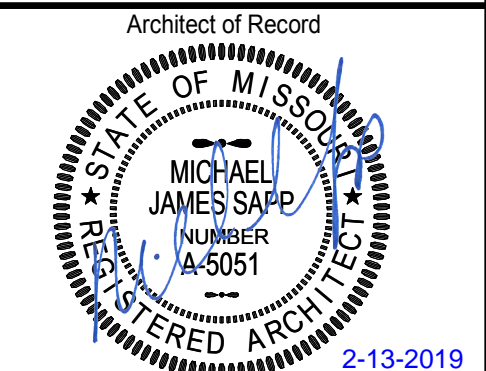
1 NORTH ELEVATION
1/8" = 1'-0"

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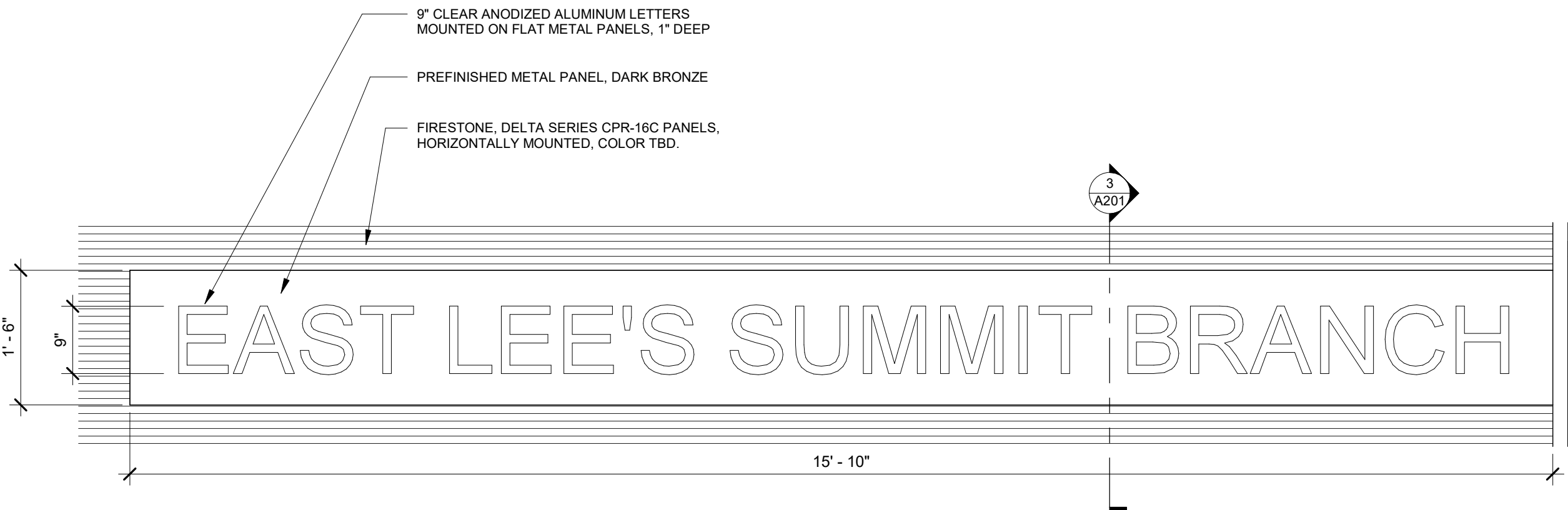
Michael James Sapp, Architect MO A-5051

Revision No.	Description	Date
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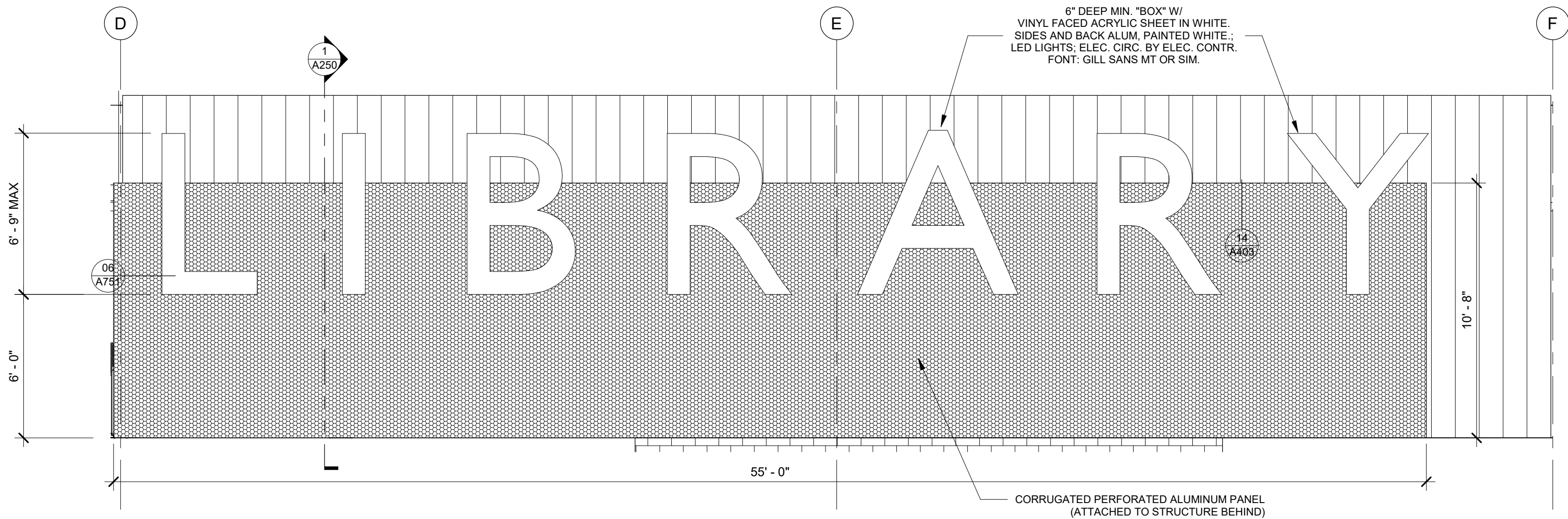
Project No.	Date	Drawn
WP04	12-07-2018	Author

Drawing No.

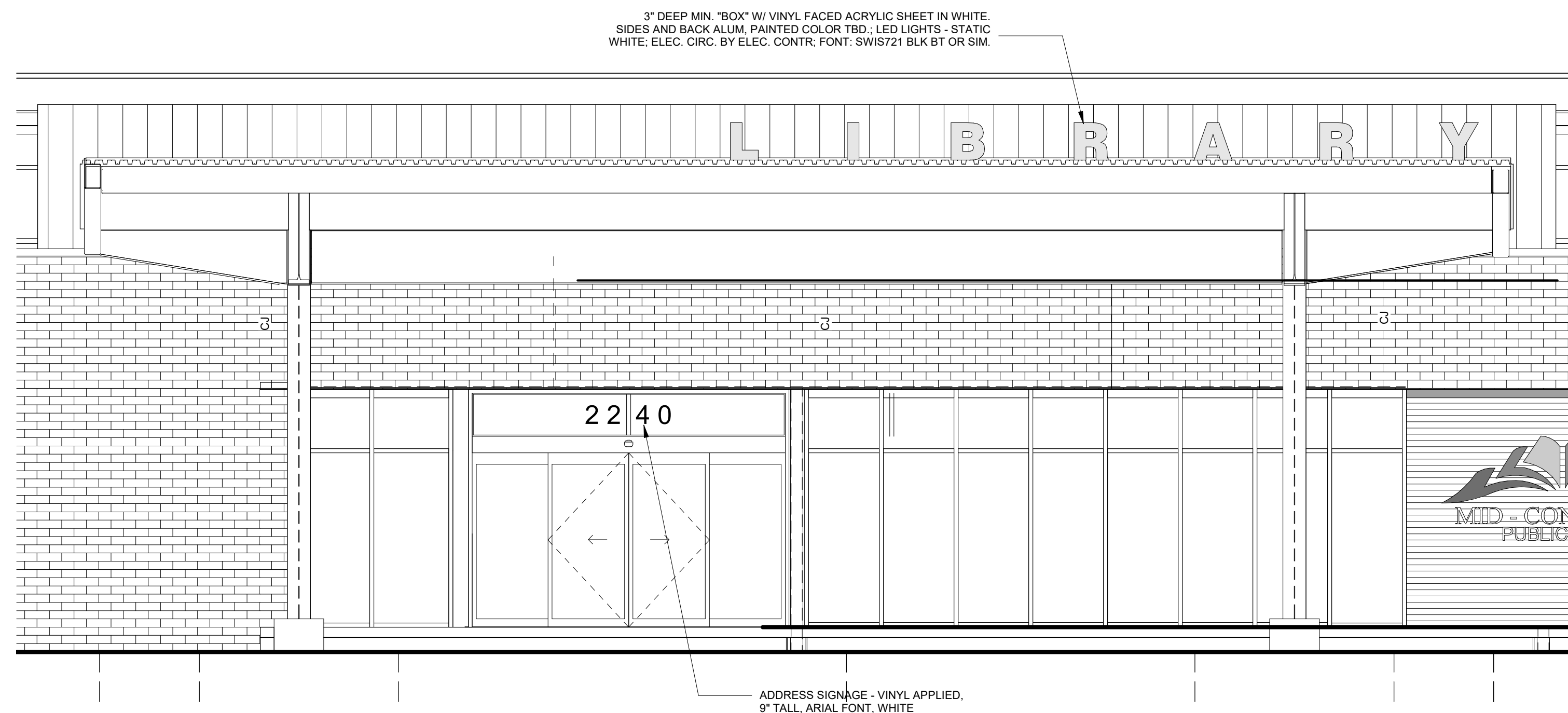
A200
ELEVATIONS



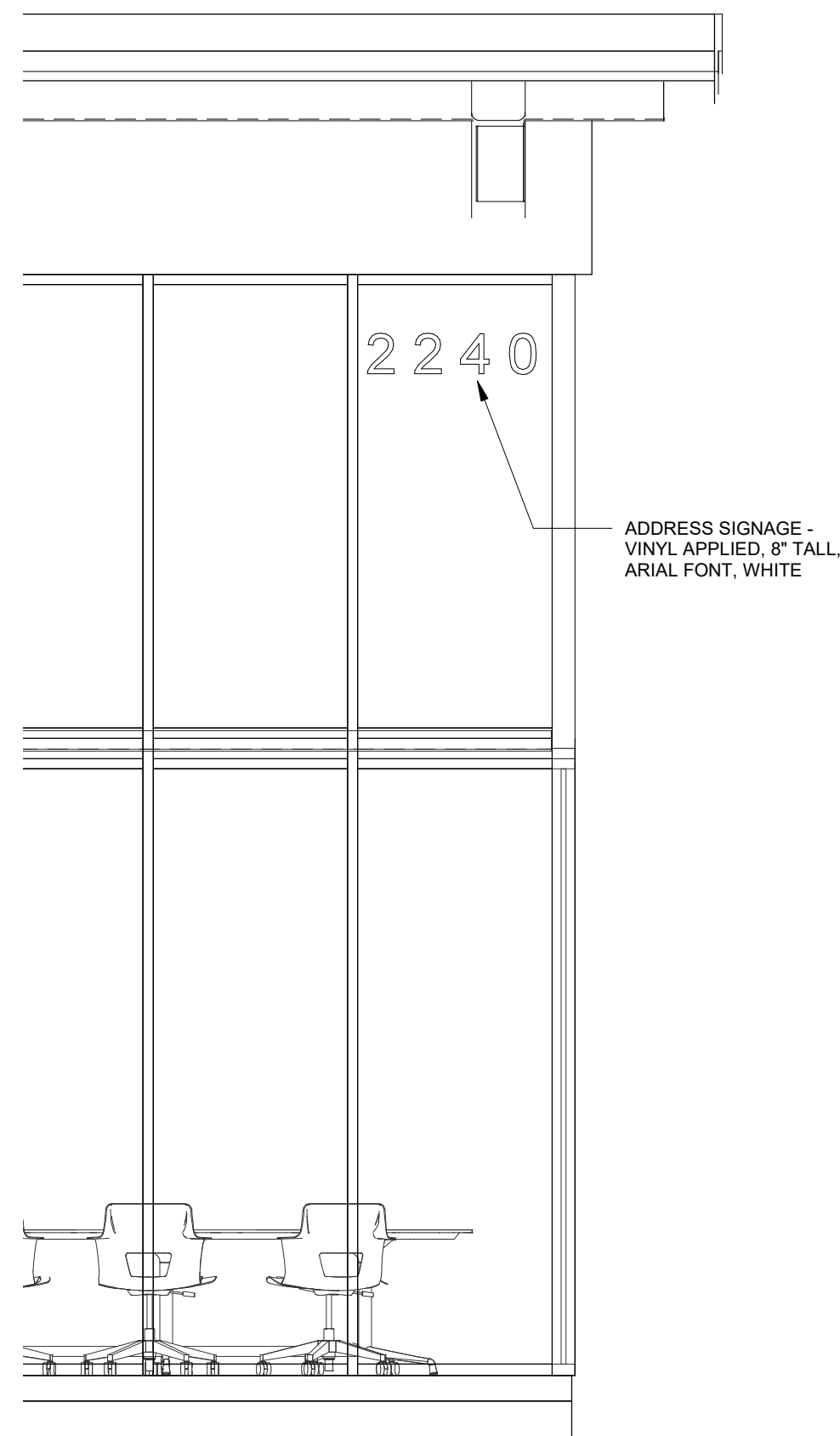
6 BRANCH NAME SIGNAGE
3/4" = 1'-0"



5 BUILDING WALL SIGN - SOUTH FACADE
1/4" = 1'-0"

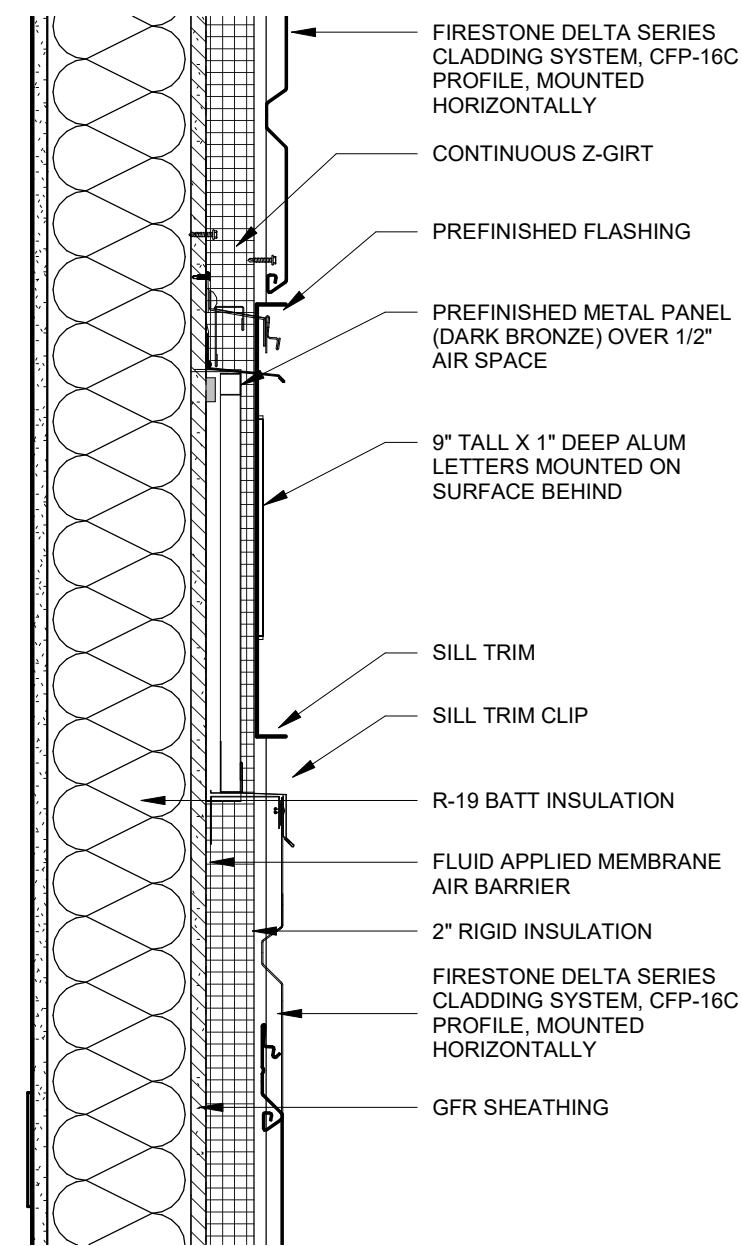


2 ADDRESS & CANOPY SIGNAGE - NORTH FACADE
1/4" = 1'-0"



4 ADDRESS SIGNAGE - SOUTH FACADE
3/8" = 1'-0"

- GENERAL SIGNAGE NOTES:**
1. PROVIDE LAYOUT DRAWING OF EACH SIGN SHOWING SIZE, SPACING, ETC. PROVIDE SAMPLE OF LETTER TYPES AND MATERIALS.
 2. PRODUCTS TO BE SIMILAR OR EQUAL TO PRODUCTS BY GEMINI, OR EQ. COLORS AS SELECTED BY ARCHITECT FOR LETTERS.
 3. ARCH TO PROVIDE LAYOUT FILE FOR LOGO, AND PANTONE COLORS TO BE MATCHED BY FABRICATOR.
 4. BRANCH NAME AND ADDRESS LETTERS ARE 1" THICK CAST ALUM. OR ACRYLIC; COLOR BY ARCH FROM STANDARD COLORS, MIN. 8 COLORS. CONCEALED MOUNTING.
 5. CONFIRM MOUNTING CONDITIONS AND ANCHOR TYPES FOR EACH TYPE OF SIGN PRIOR TO INSTALLATION. ALL ANCHORS ARE TO BE CONCEALED PINS AND STUDS. ALL ANCHORS ARE TO BE WATER TIGHT AND WEATHER PROOF.
 6. PROVIDE PROPER BACKING & MOUNTING METHOD AT METAL SIDING TO AVOID DERORMING OR DAMAGE TO SIDING.
 7. SIGN "BOXES": CONSTRUCT OF SHT MTG TYPE AND SIZE AS NEC.; WATER TIGHT, MINIMAL VISIBLE JOINTS. CONCEALED FASTENINGS, BRACING AND SUPPORTS AS REQUIRED; KYMAR FINISH OR EQ.; OR MAY BE PREFAB UNITS EQUAL TO MAPES. PROVIDE SHOP DRAWINGS.
 8. PROVIDE ONE YR. FABRICATOR'S WARRANTY; AND MFR'S STANDARD WNTY. ON PRODUCT.
 9. LIGHTED ALTERNATES: PROVIDE POWER FROM NEAREST VIABLE NON-SWITCHED CIRCUIT; INCLUDE TIME CLOCK AT APPROVED ACCESSIBLE LOCATION IN CLOSET OR UTILITY AREA.

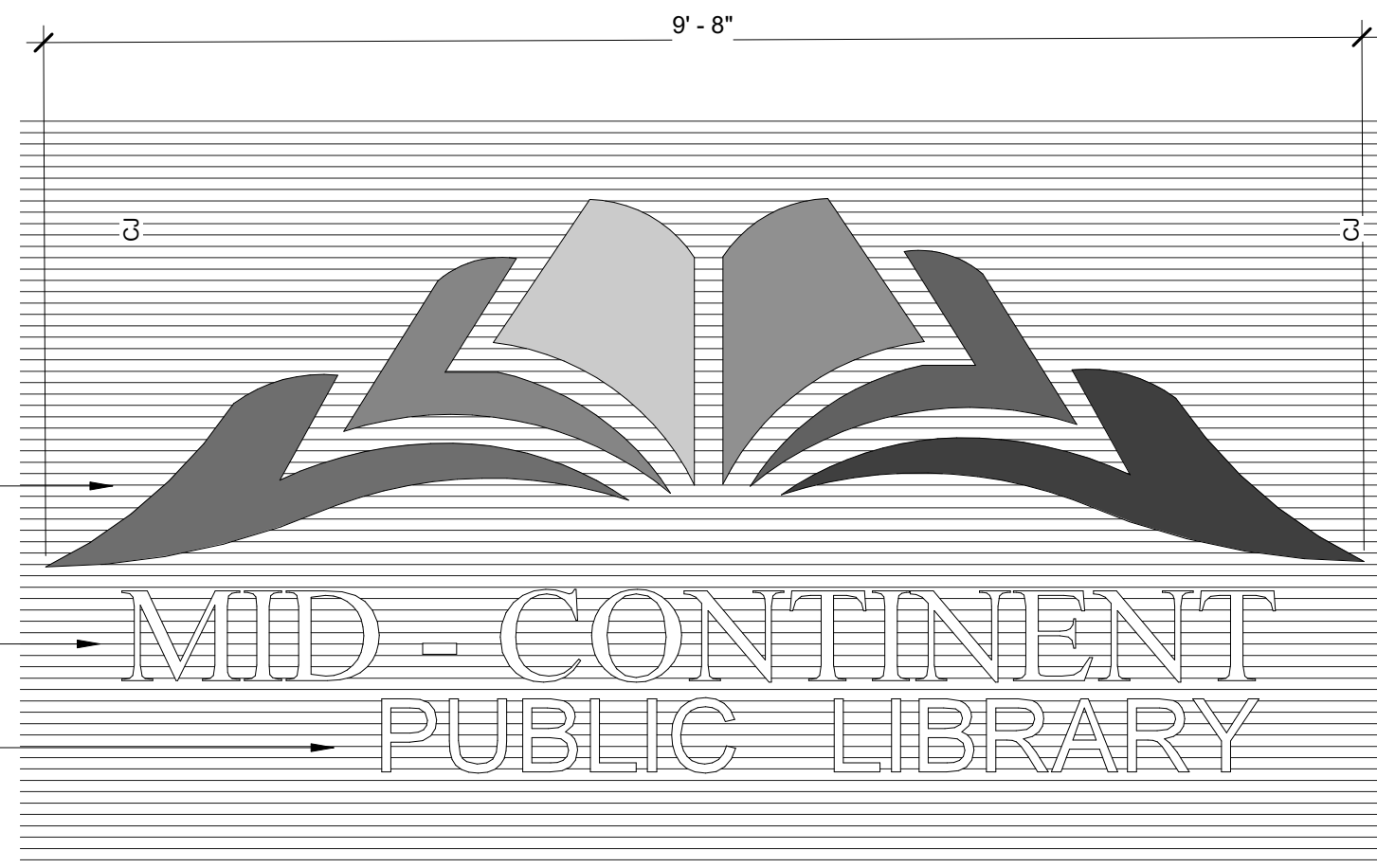


3 SECTION @ NORTH SIGNAGE WALL
1 1/2" = 1'-0"

PAINTED, 1/4" ALUM. PANELS:
SEP. PANEL FOR EA. PAGE.
LIGHTED ALT: 2" DEEP MIN. "BOX" W/
VINYL FACED ACRYLIC SHEET IN LOGO
COLORS. SIDES AND BACK ALUM.
LED LIGHTS: ELEC. CIRC. BY ELEC. CONTR.
SEE INDIV. BRANCH NOTES FOR LOCATION.

8" X 1/4"; TIMES NEW ROMAN.
TOTAL WIDTH AND SPACING AS SHOWN

5" X 1/4"; GIL SANS
TOTAL WIDTH AND SPACING AS SHOWN.



1 MCPL LOGO SIGNAGE (SIM TO BL-1)
3/4" = 1'-0"

**SAPP
DESIGN
ARCHITECTS**

3750 S. Fremont Ave.
Springfield, MO 65804 417.877.9600

Sapp Design Associates Architects, P.C.
Missouri State Certificate of Authority #000607

helix.

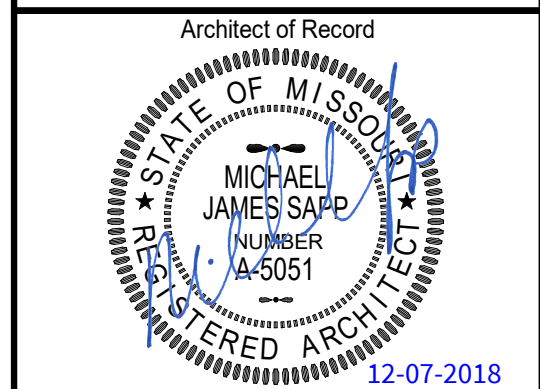
1629 Walnut
Kansas City, MO 64108 816.300.0300

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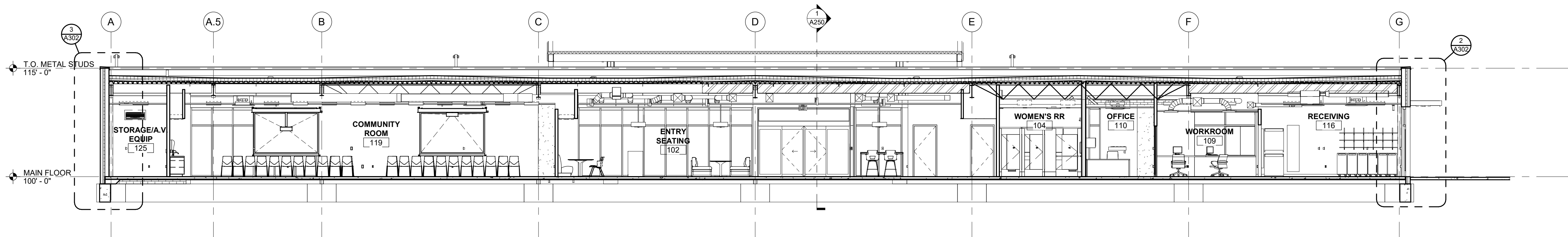


Revision No.	Description	Date
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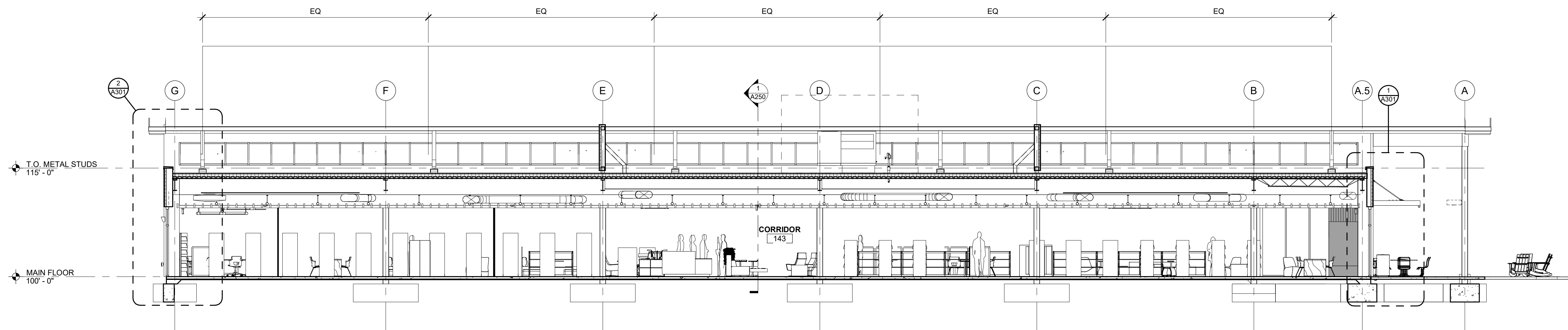
Project No.	Date	Drawn
WP04	12-07-2018	Author

Drawing No.	Author
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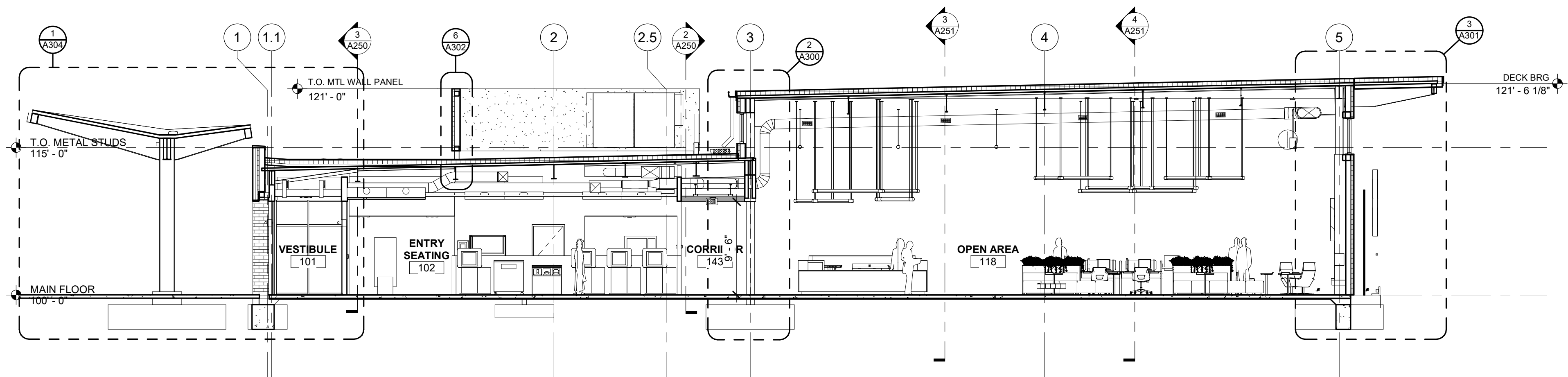
A201
SIGNAGE



3 BUILDING SECTION
1/8" = 1'-0"



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



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

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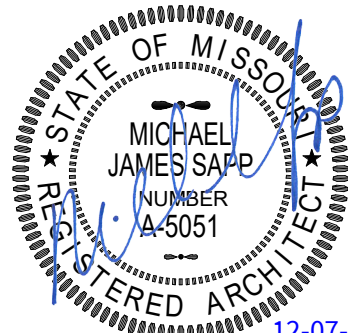
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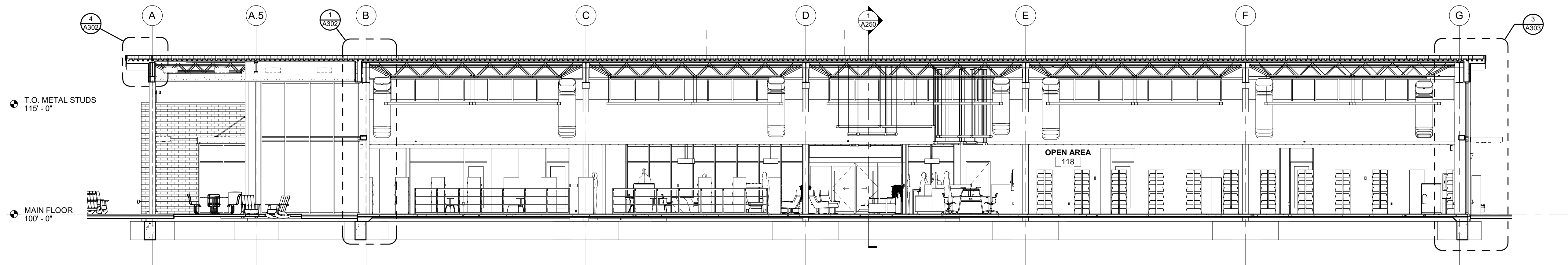


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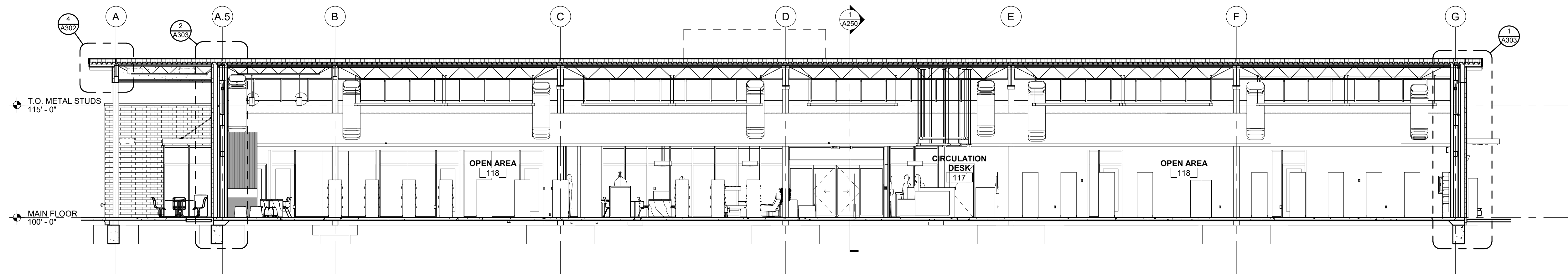
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WP04	12-07-2018	Author

Drawing No.

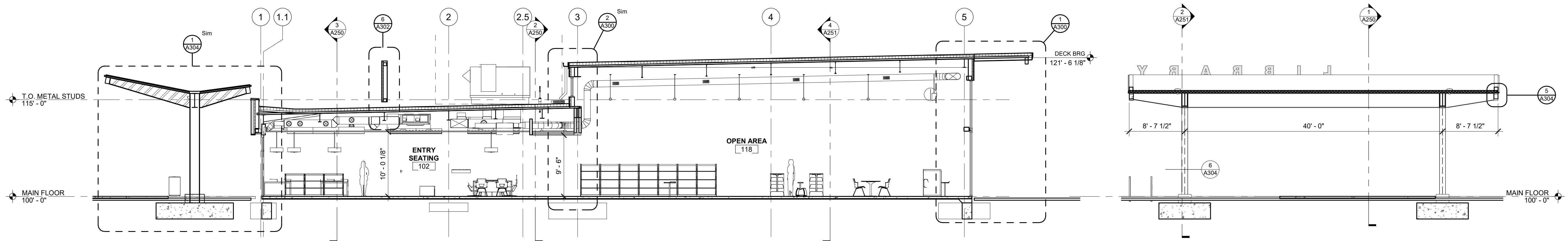
A250
BUILDING SECTIONS



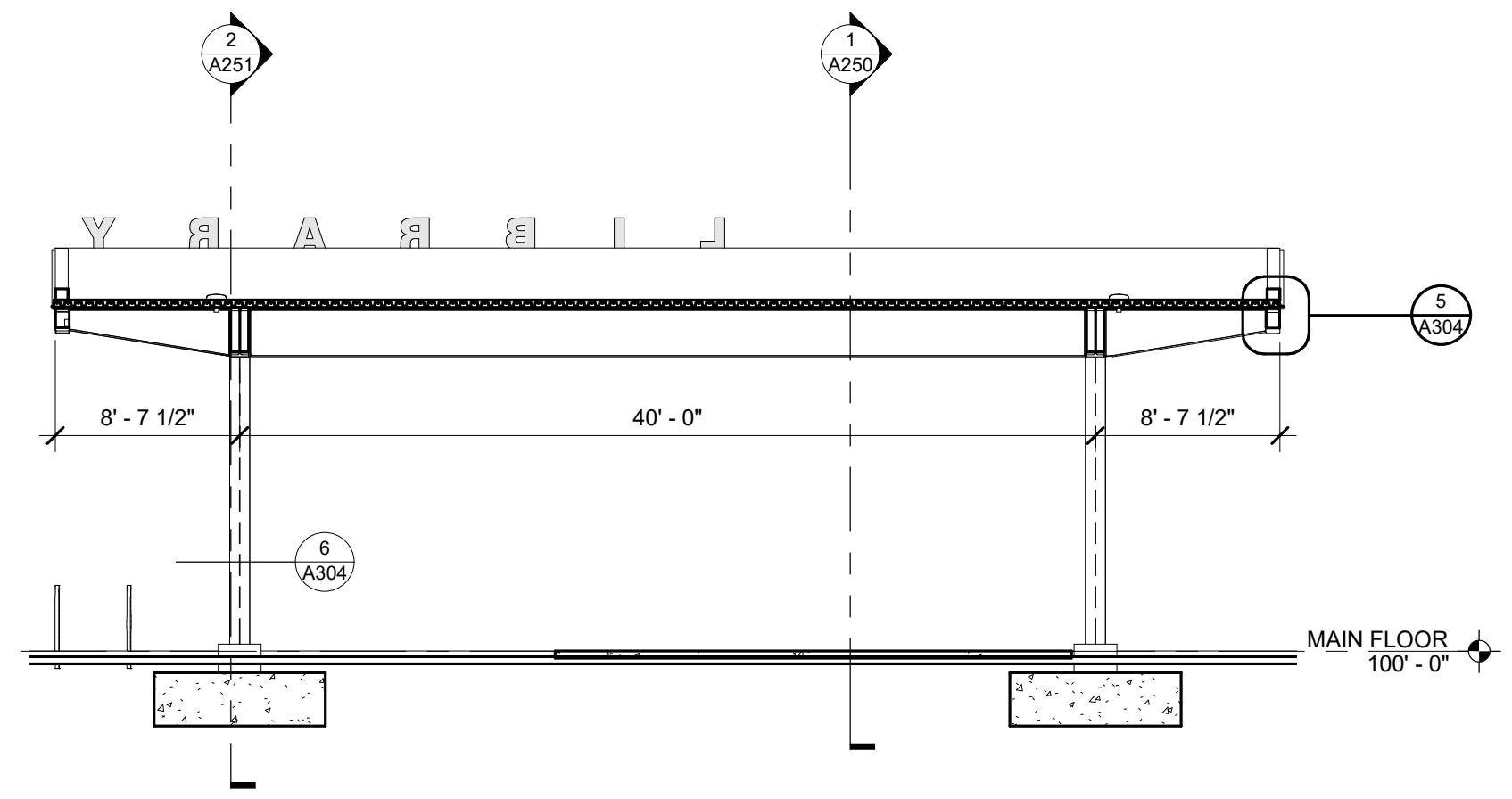
4 BUILDING SECTION
1/8" = 1'-0"



3 BUILDING SECTION
1/8" = 1'-0"



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



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

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ARCHITECTS**

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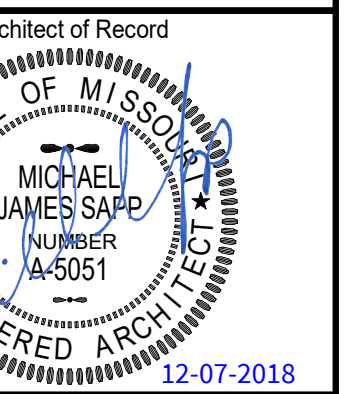
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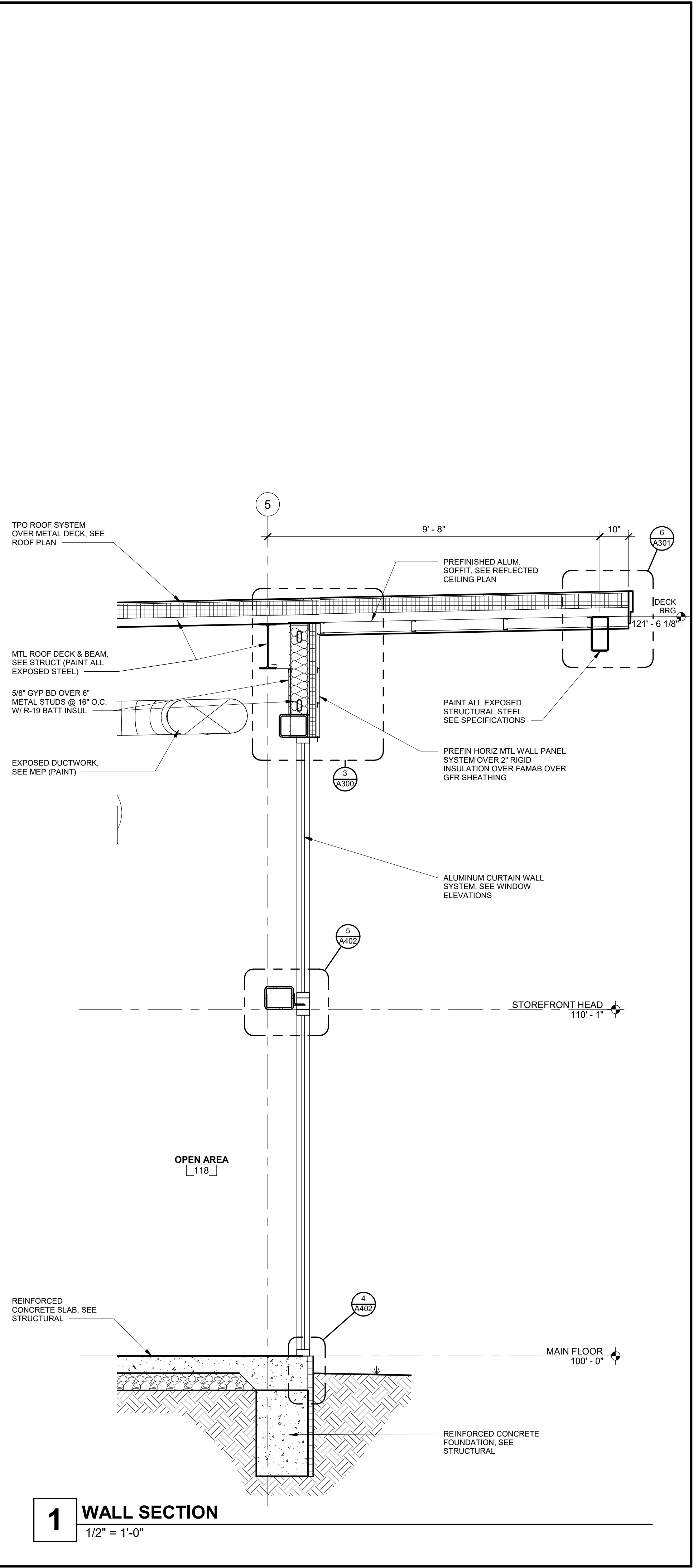
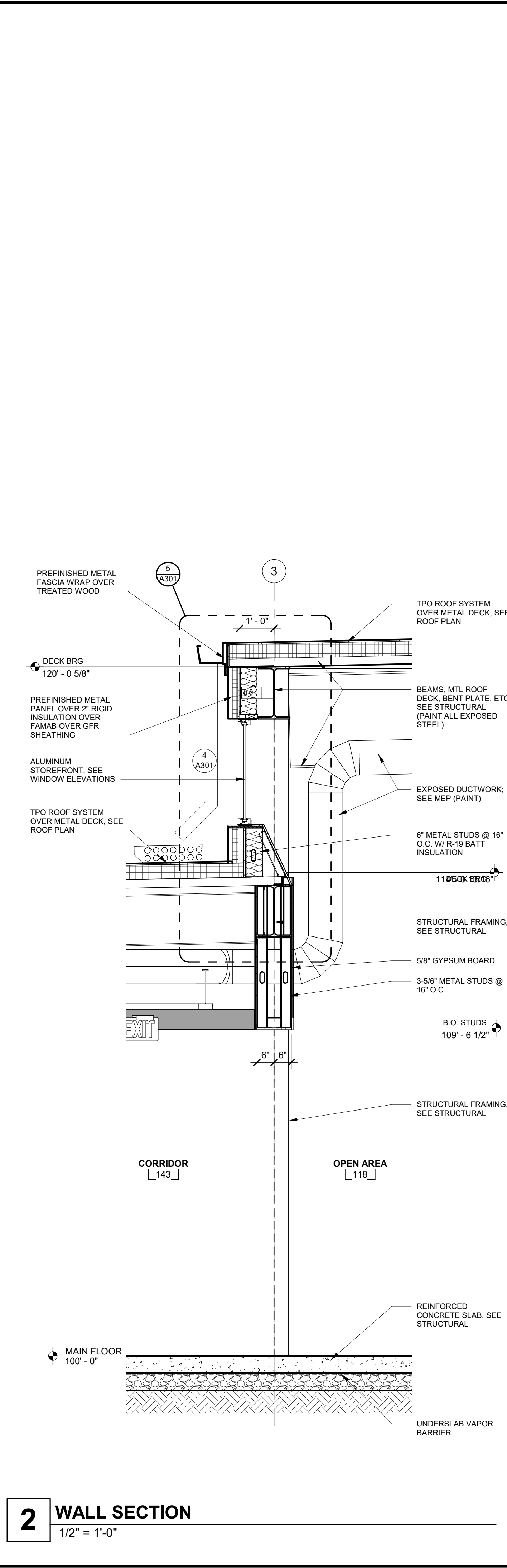
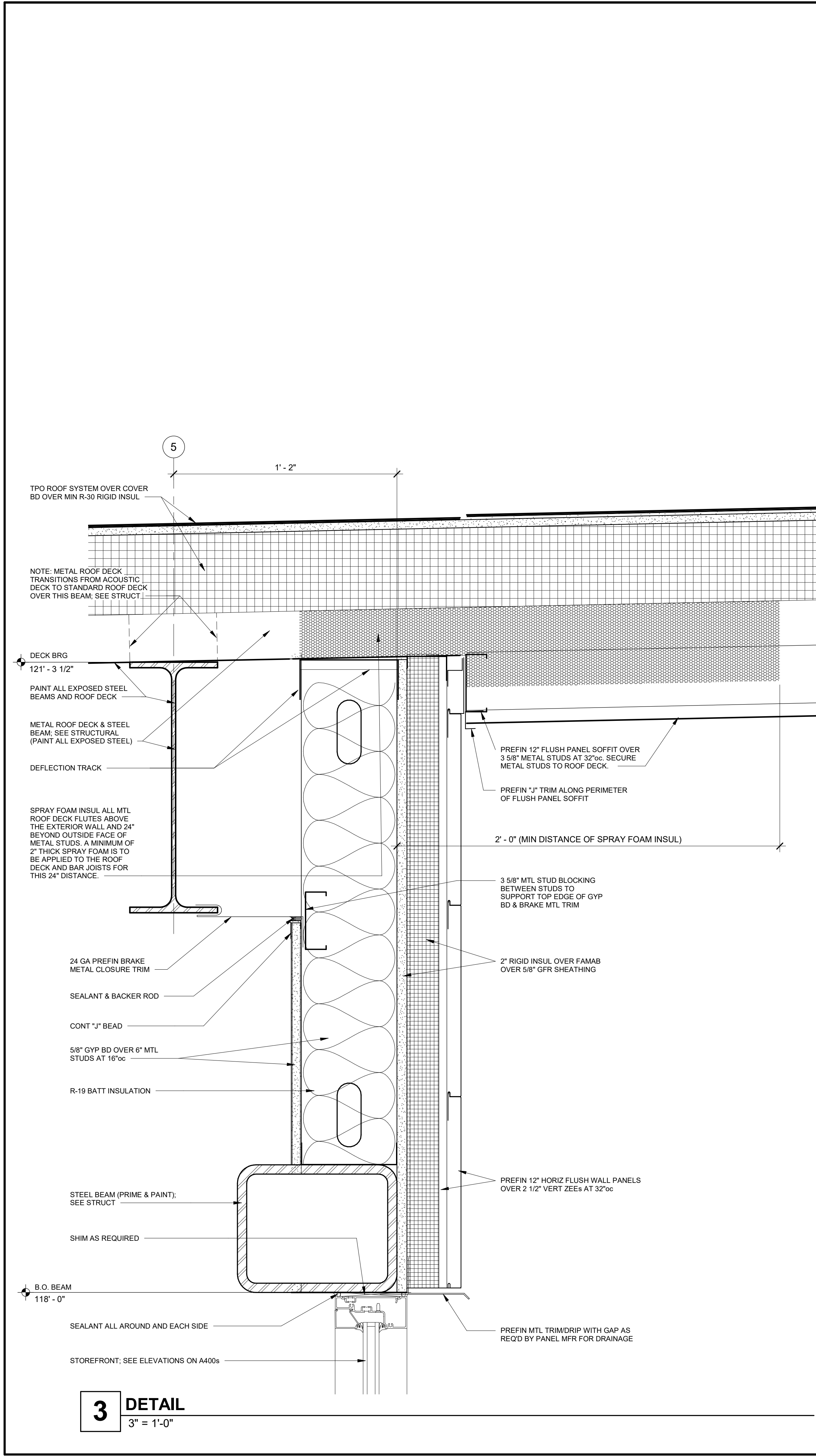
Revision No.	Description	Date

Project No.	Date	Drawn
WP04	12-07-2018	Author

Drawing No.	Author
A251	

A251
BUILDING SECTIONS

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STATE OF MISSOURI

MICHAEL JAMES SAPP
NUMBER JA-5051

REGISTERED ARCHITECT

12-07-2018

Revision No.	Description	Date

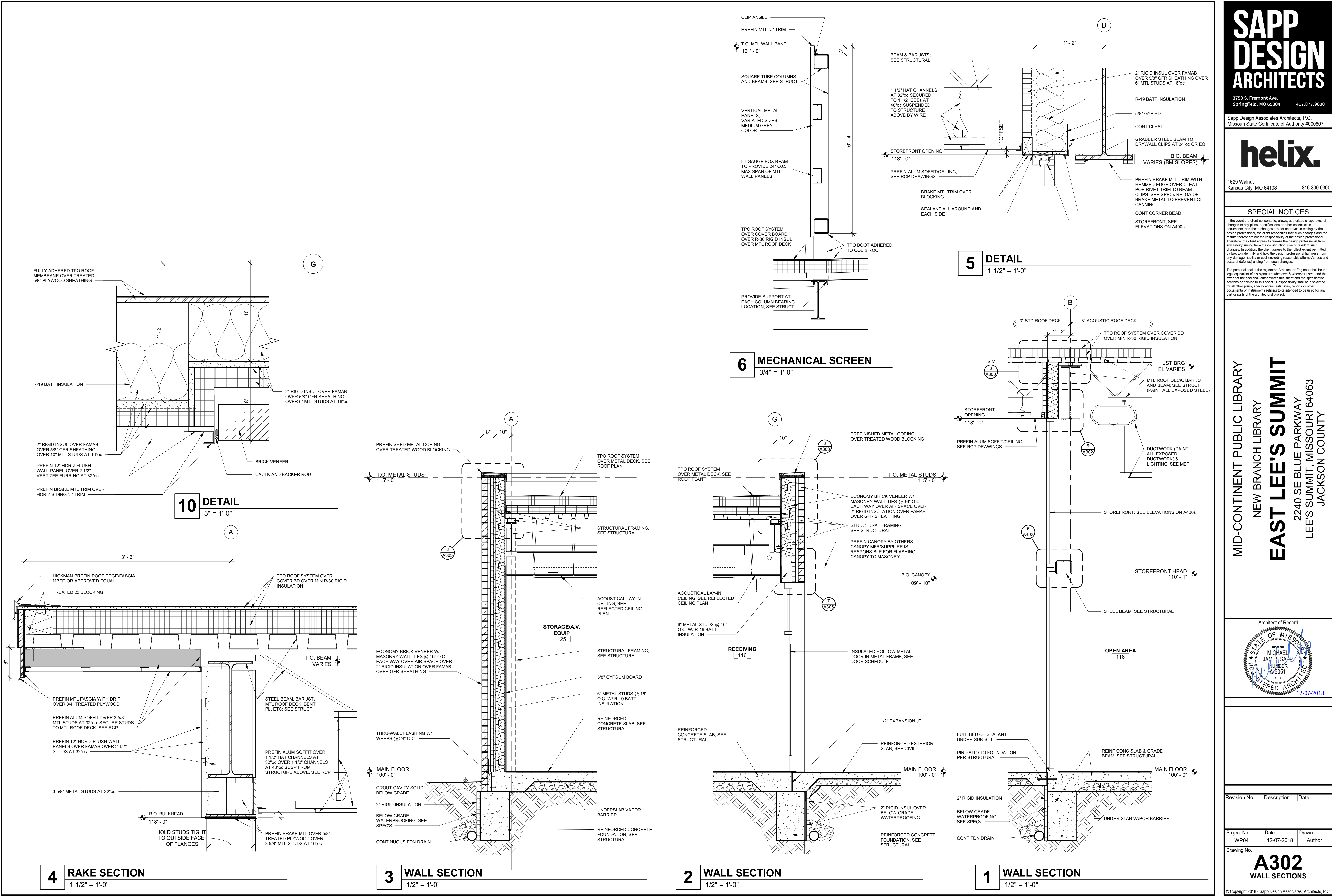
Project No.	Date	Drawn
WP04	12-07-2018	Author
Drawing No.	A300	
WALL SECTIONS		

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1 1/2" = 1'-0'

1/2" = 1'-0"

1/2" = 1'-0"



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MICHAEL JAMES SAPP
NUMBER
JA-5051

12-07-2018

Revision No.	Description	Date

Project No.	Date	Drawn
WP04	12-07-2018	Author

Drawing No.	Author
A302	

WALL SECTIONS

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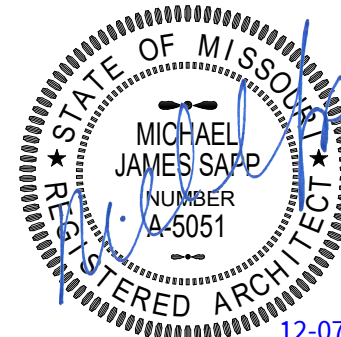
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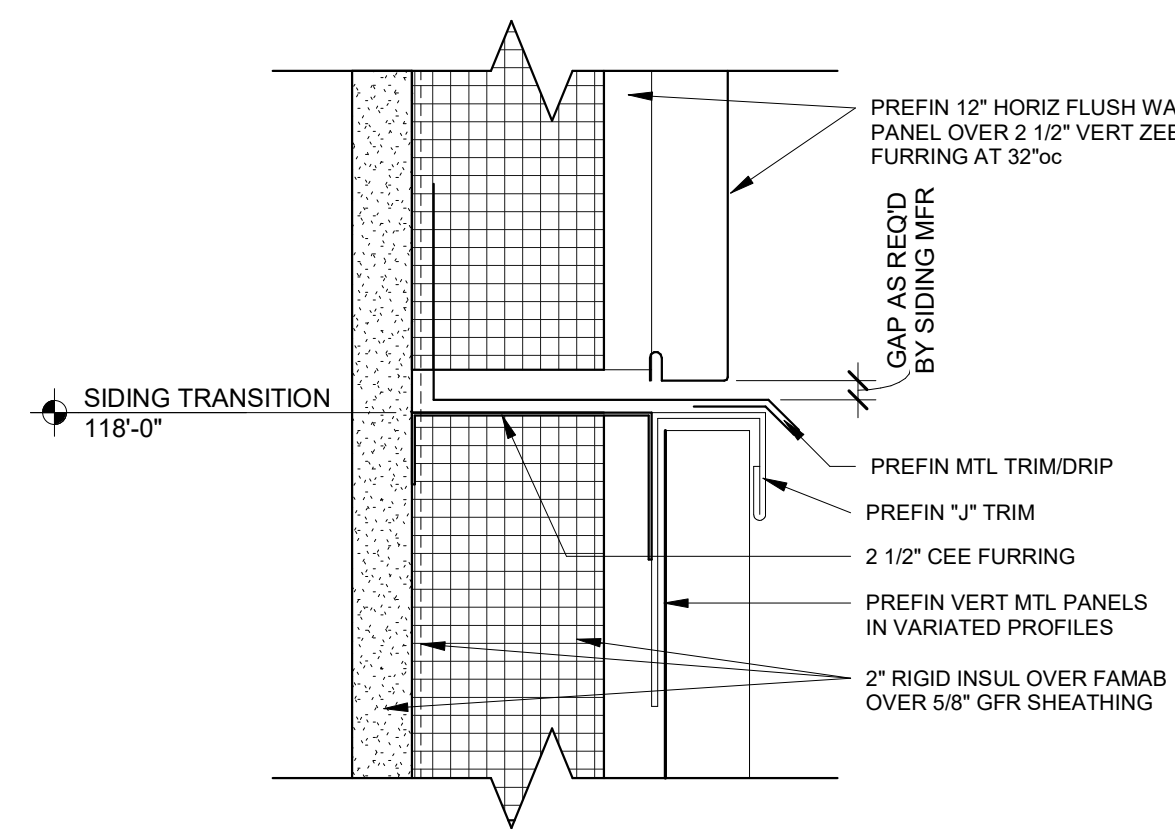


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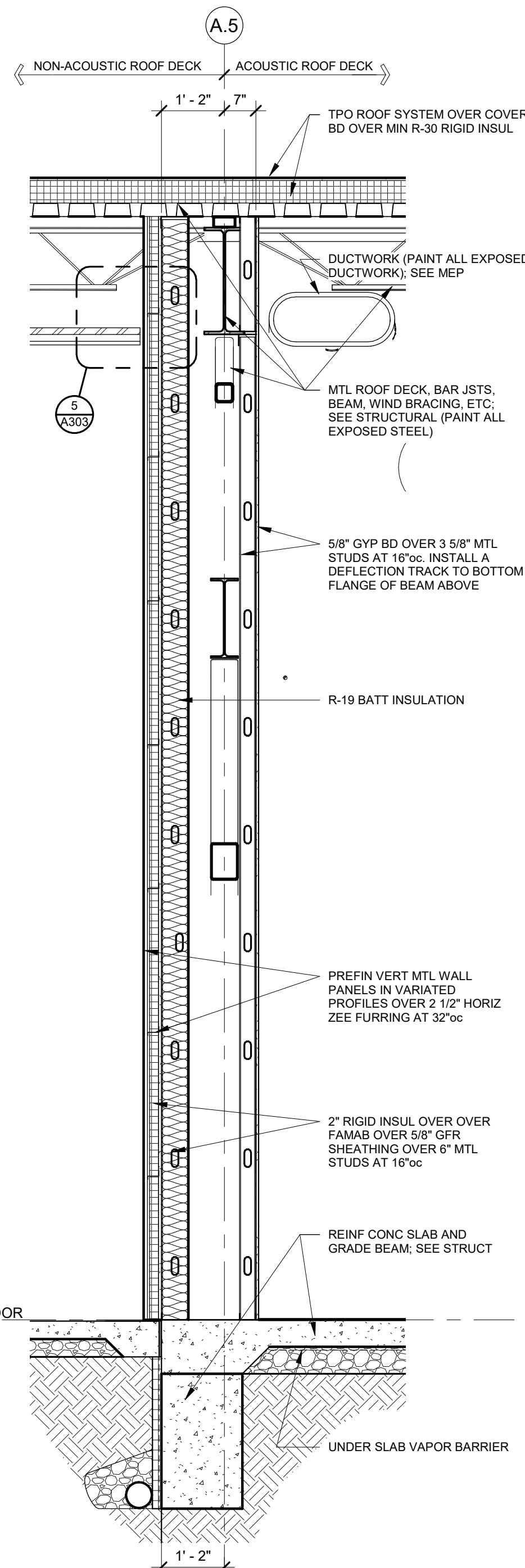
Project No. WP04 Date 12-07-2018 Drawn Author

Drawing No.

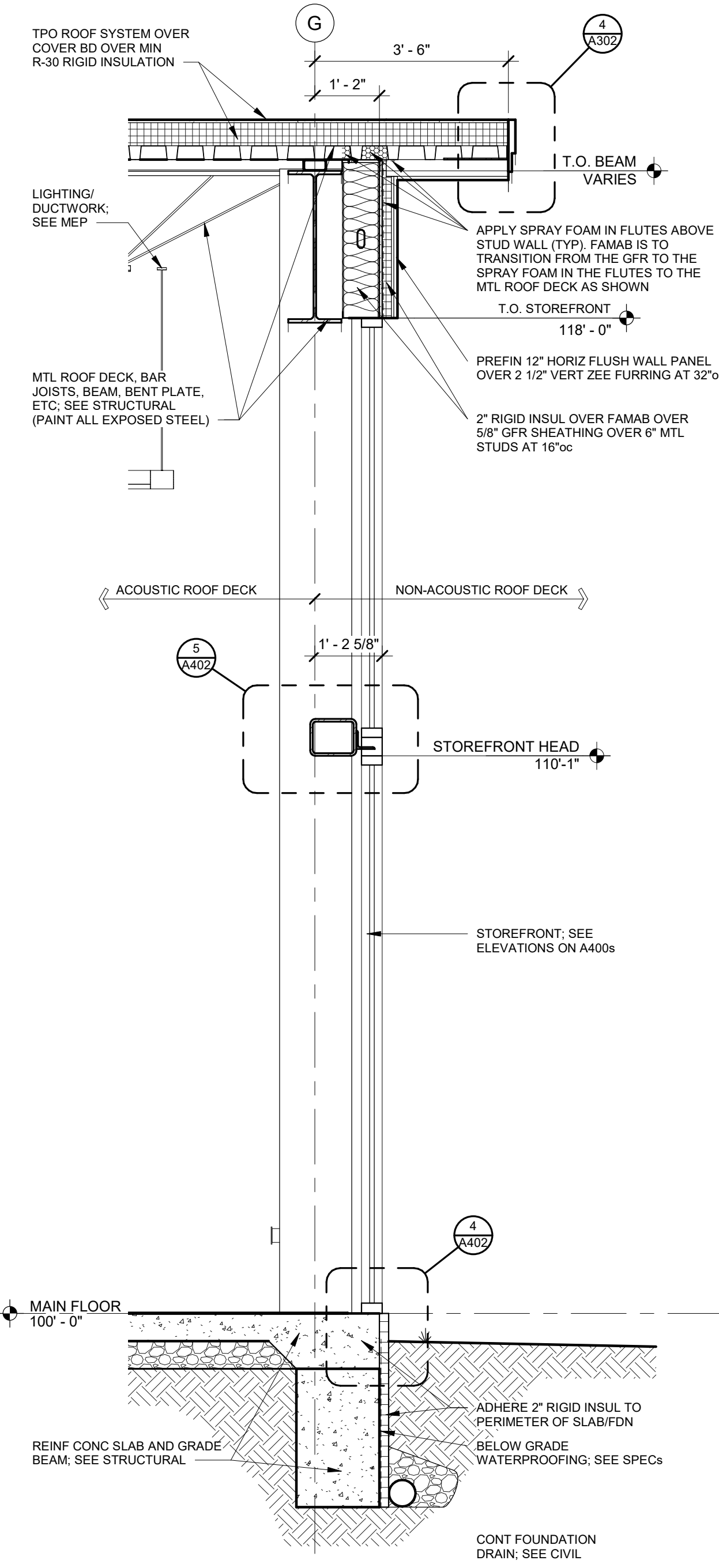
A303 WALL SECTIONS



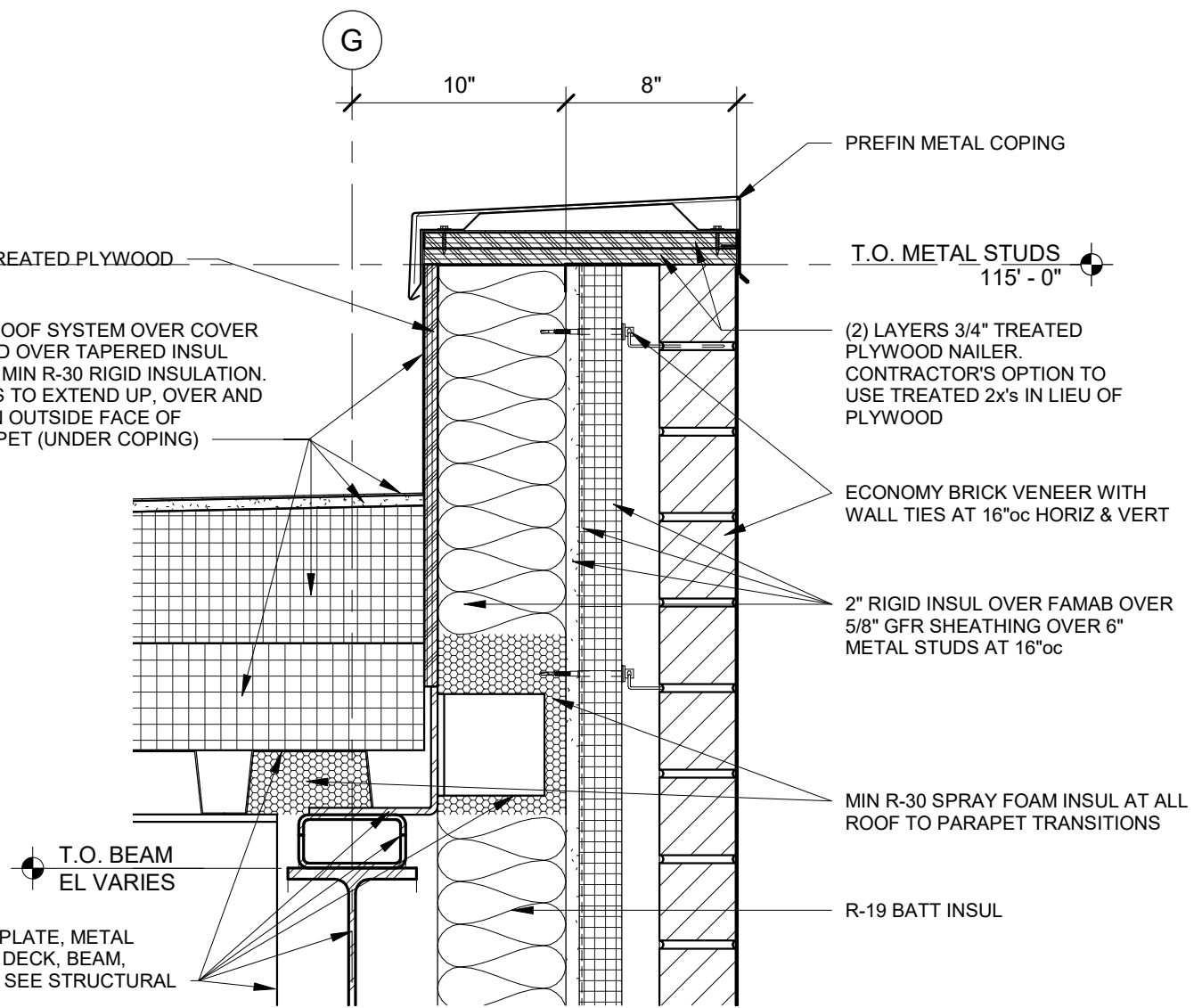
6 SIDING TRANSITION DETAIL
6" = 1'-0"



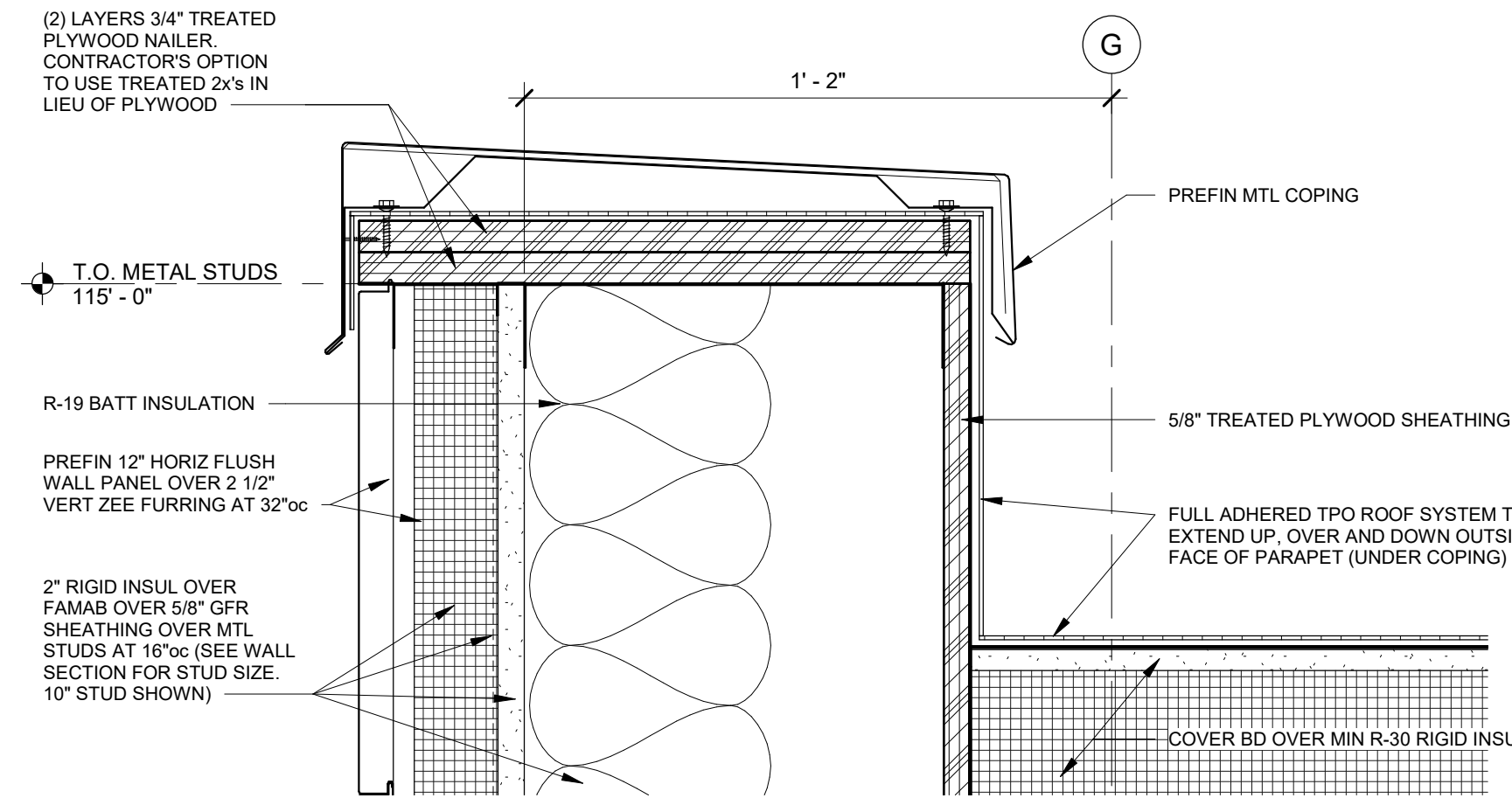
2 WALL SECTION
1/2" = 1'-0"



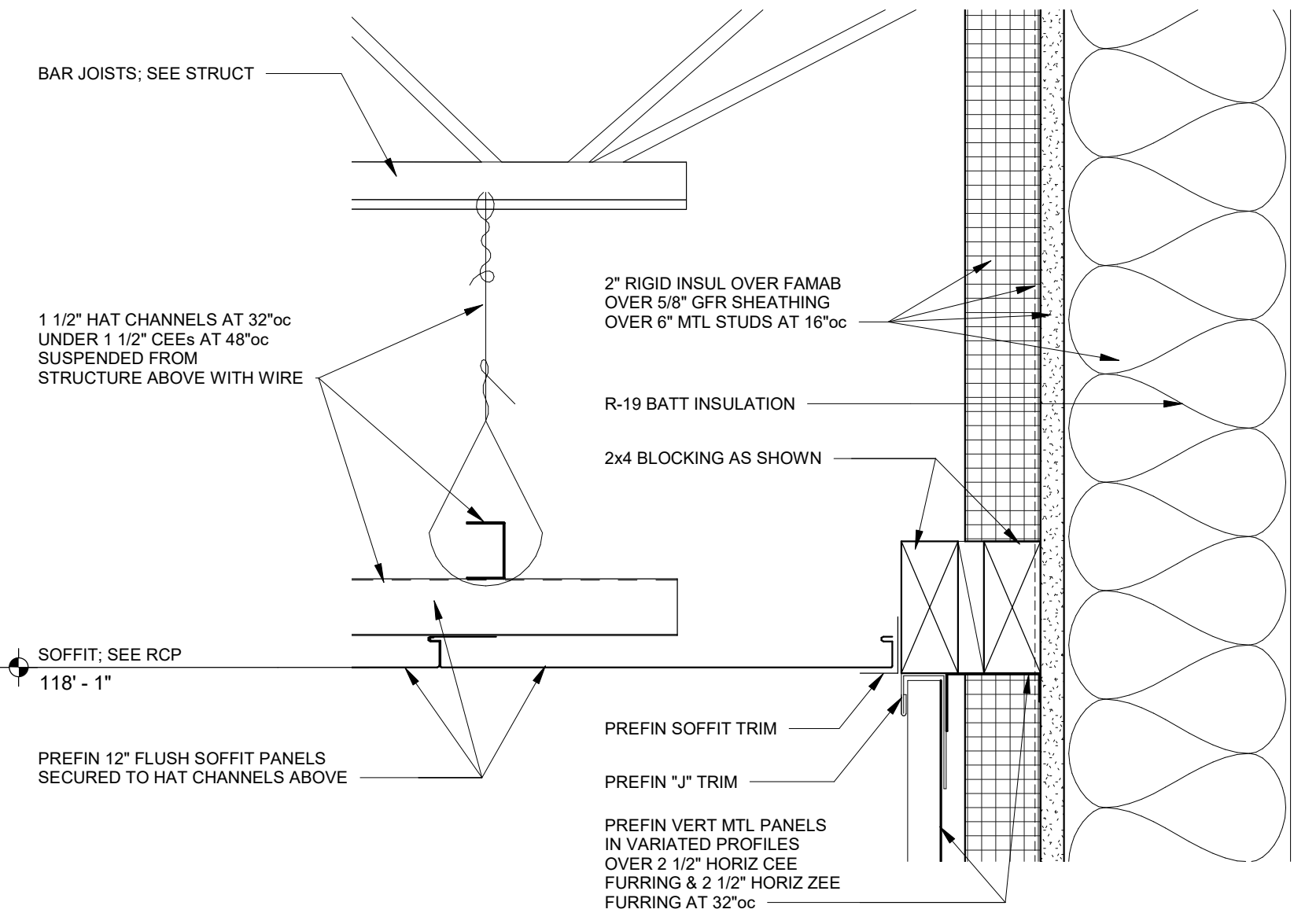
3 WALL SECTION
1/2" = 1'-0"



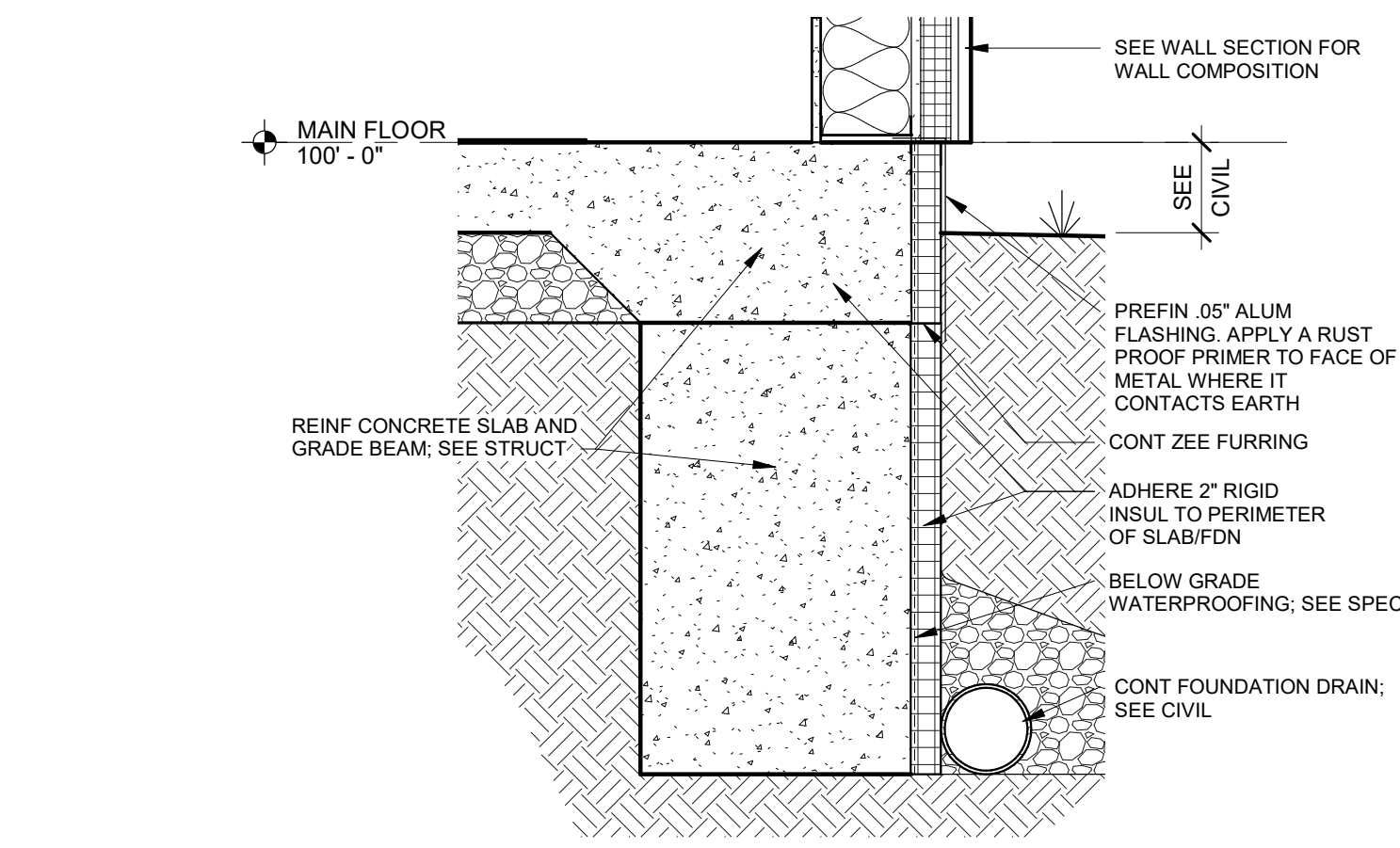
8 DETAIL
1 1/2" = 1'-0"



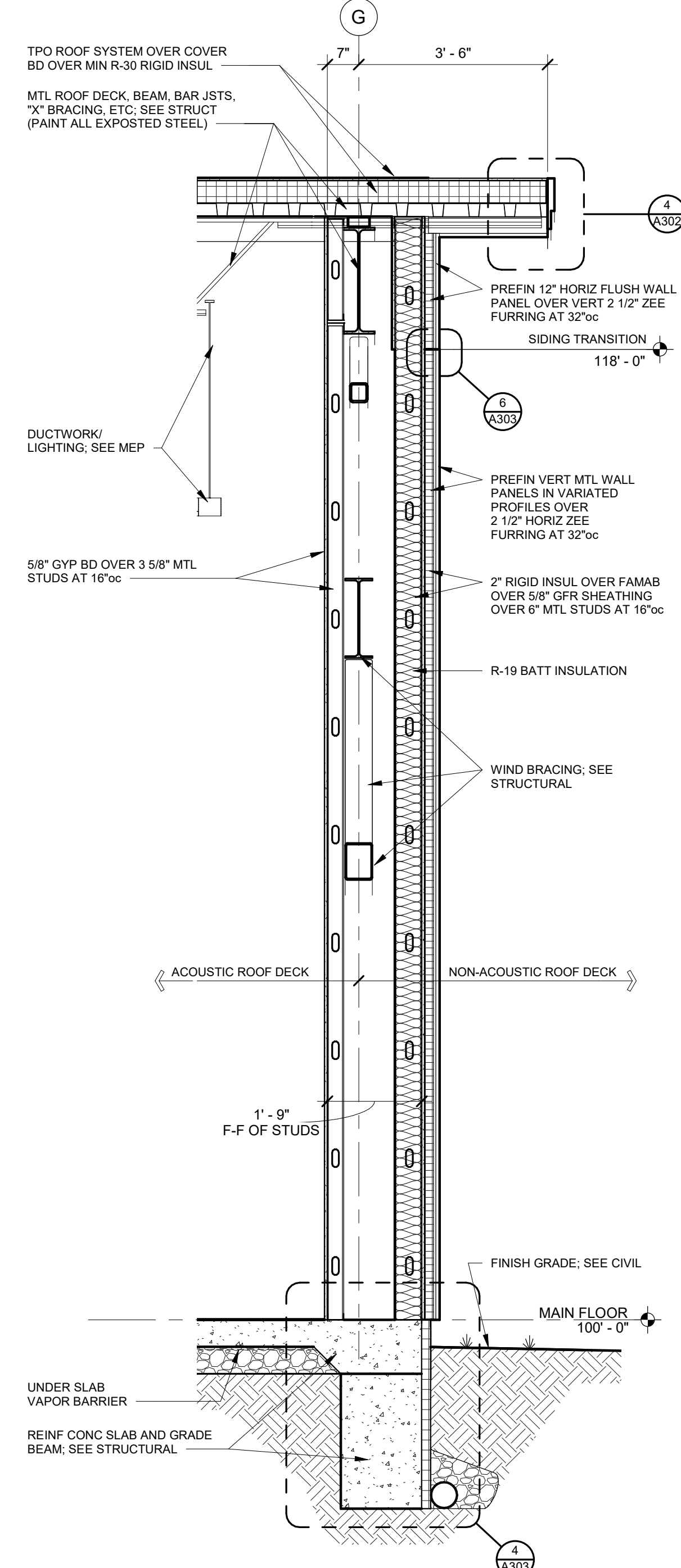
7 DETAIL
3" = 1'-0"



5 DETAIL
3" = 1'-0"



4 TYP FOUNDATION DETAIL
1" = 1'-0"



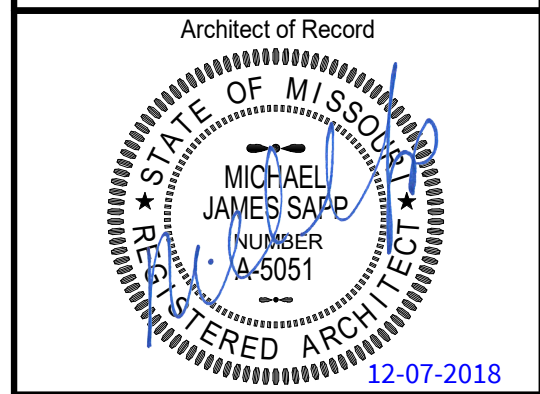
1 WALL SECTION
1/2" = 1'-0"

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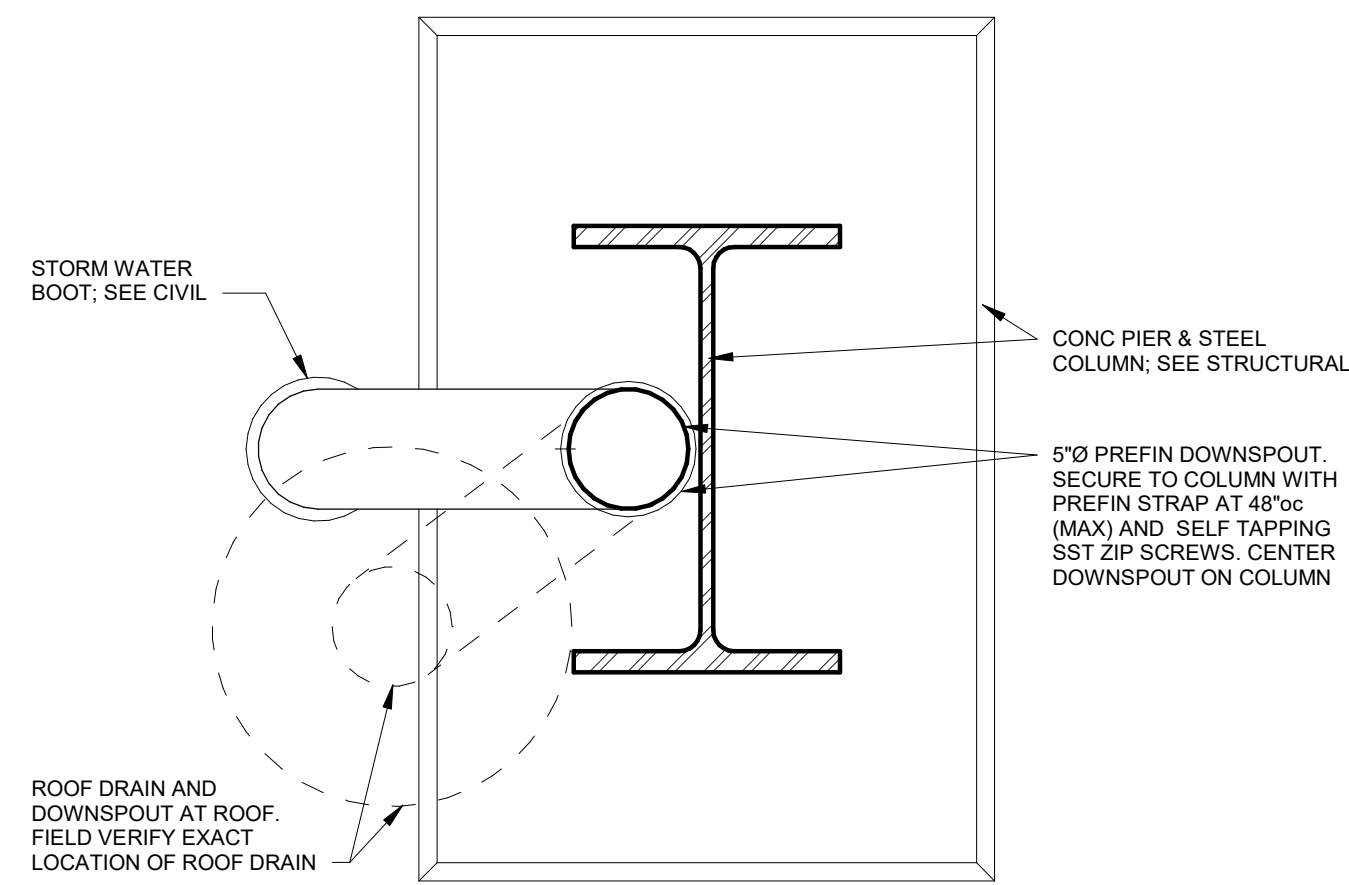
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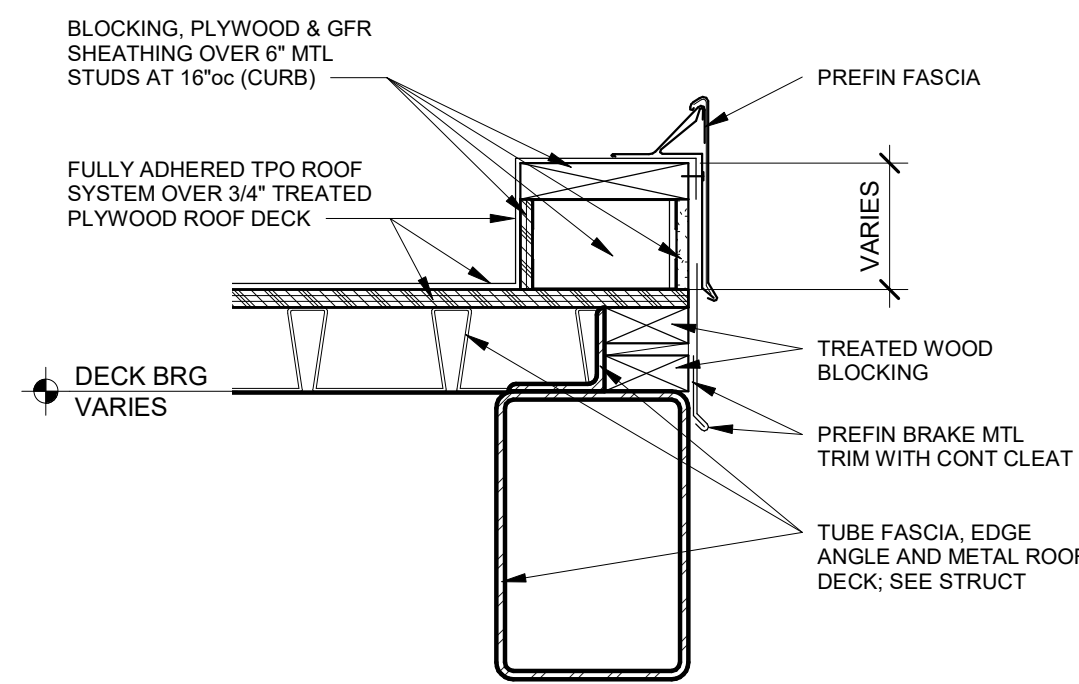
Project No.	Date	Drawn
WP04	12-07-2018	Author
Drawing No.		

A304
WALL SECTIONS

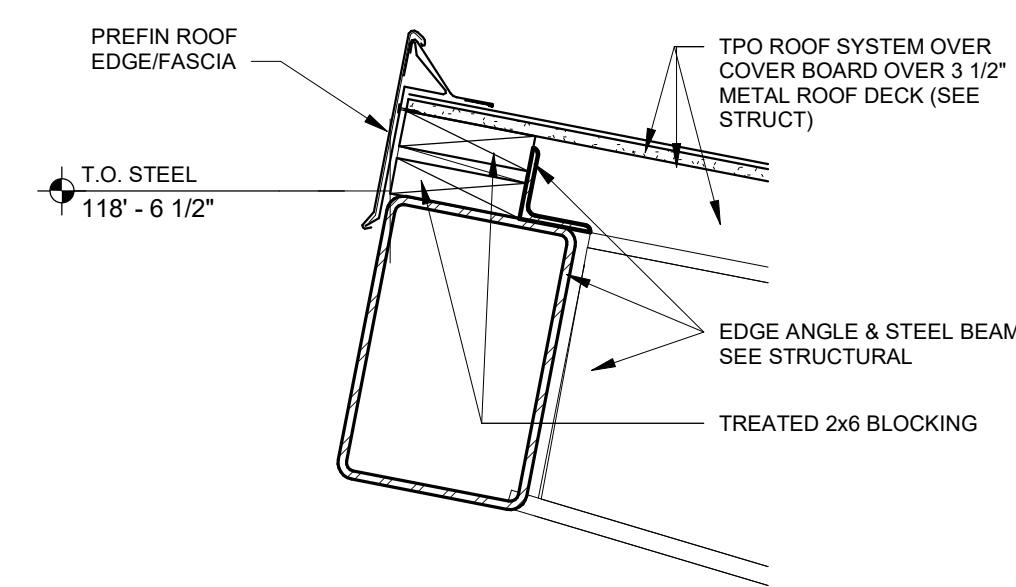


NOTE:
DOWNSPOUT IS TO BE LOCATED ON THE OUTSIDE FLANGE
FACE RELATIVE TO THE ENTRANCE INTO THE BUILDING

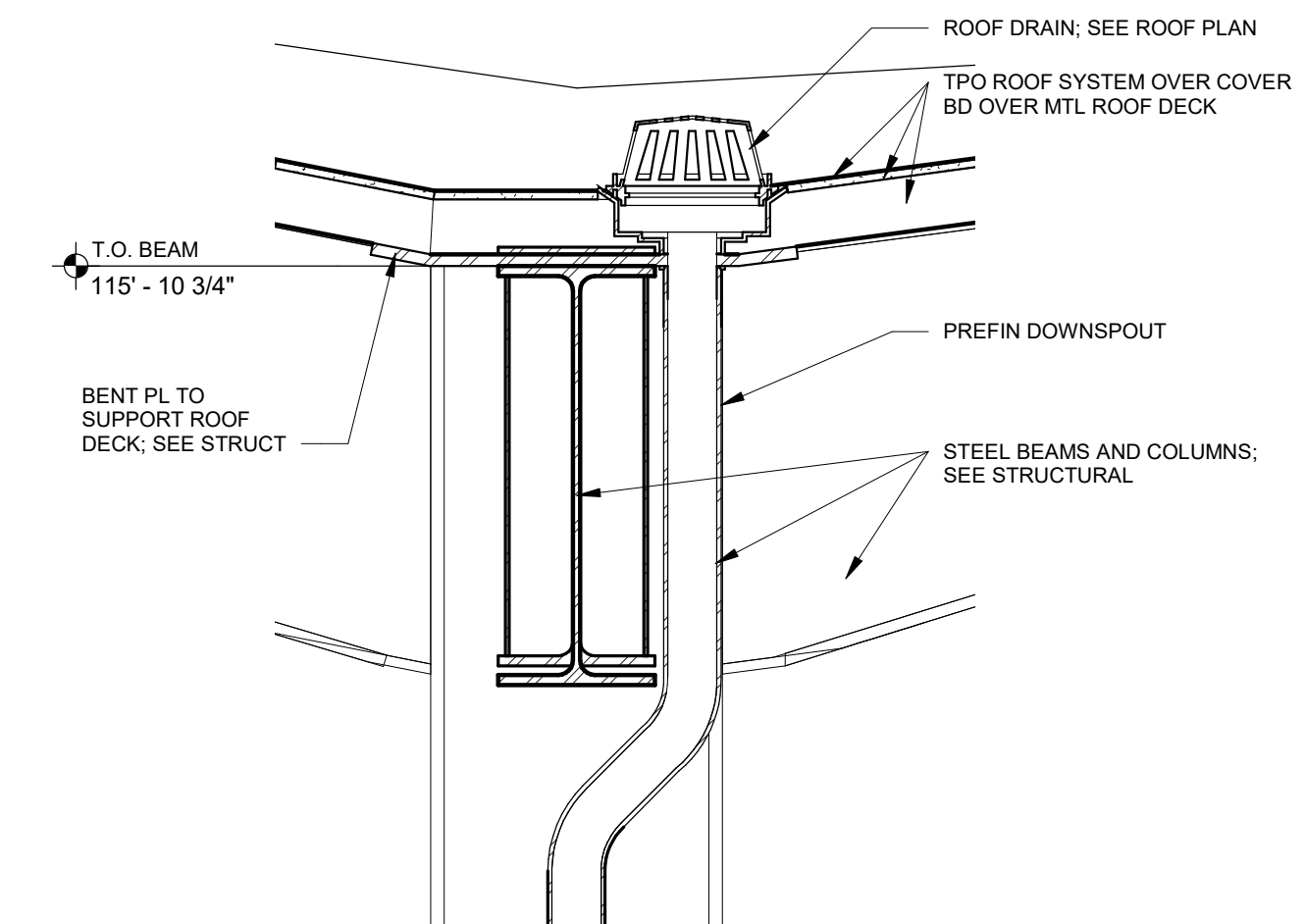
6 PLAN SECTION
1 1/2" = 1'-0"



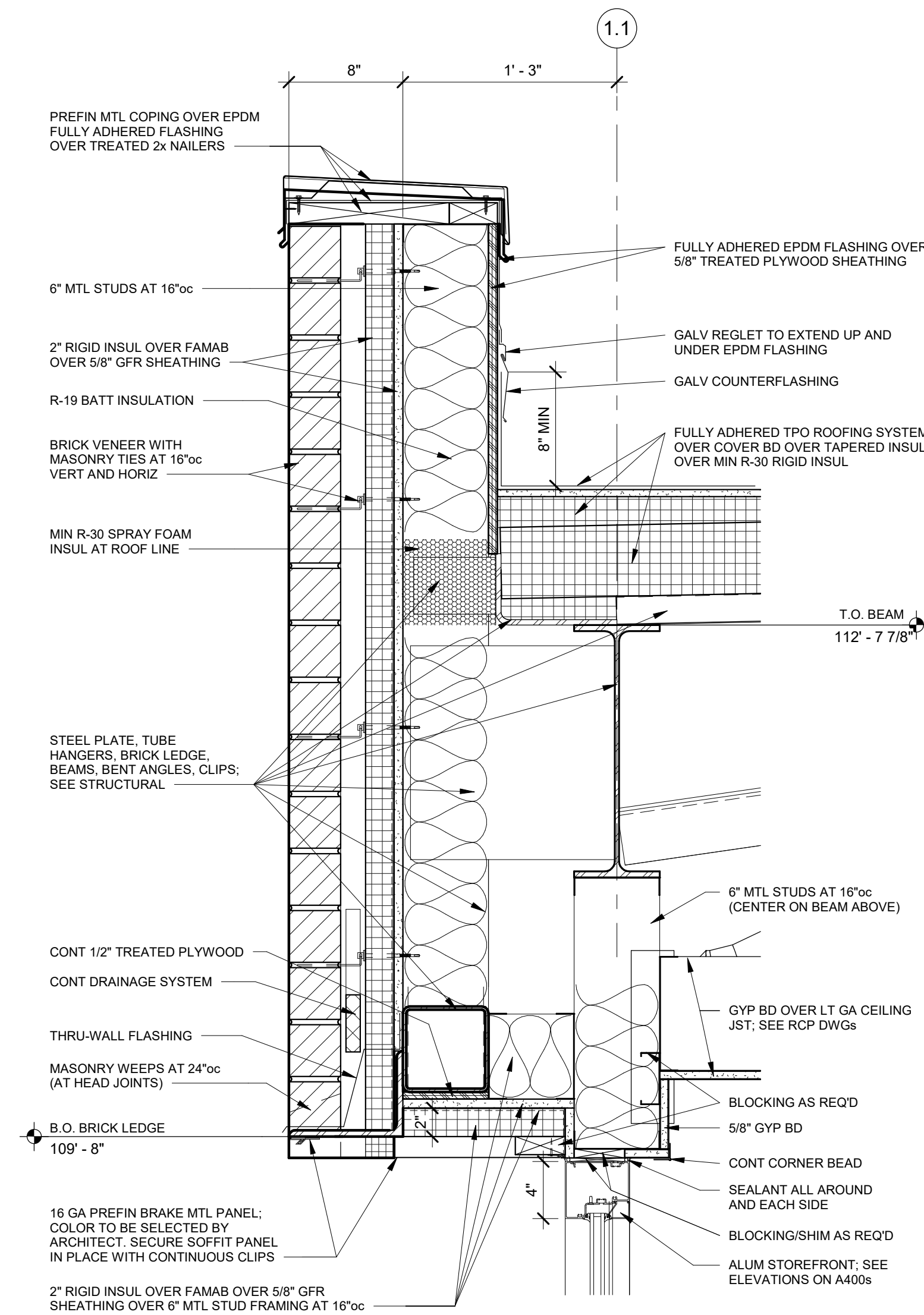
5 DETAIL
1 1/2" = 1'-0"



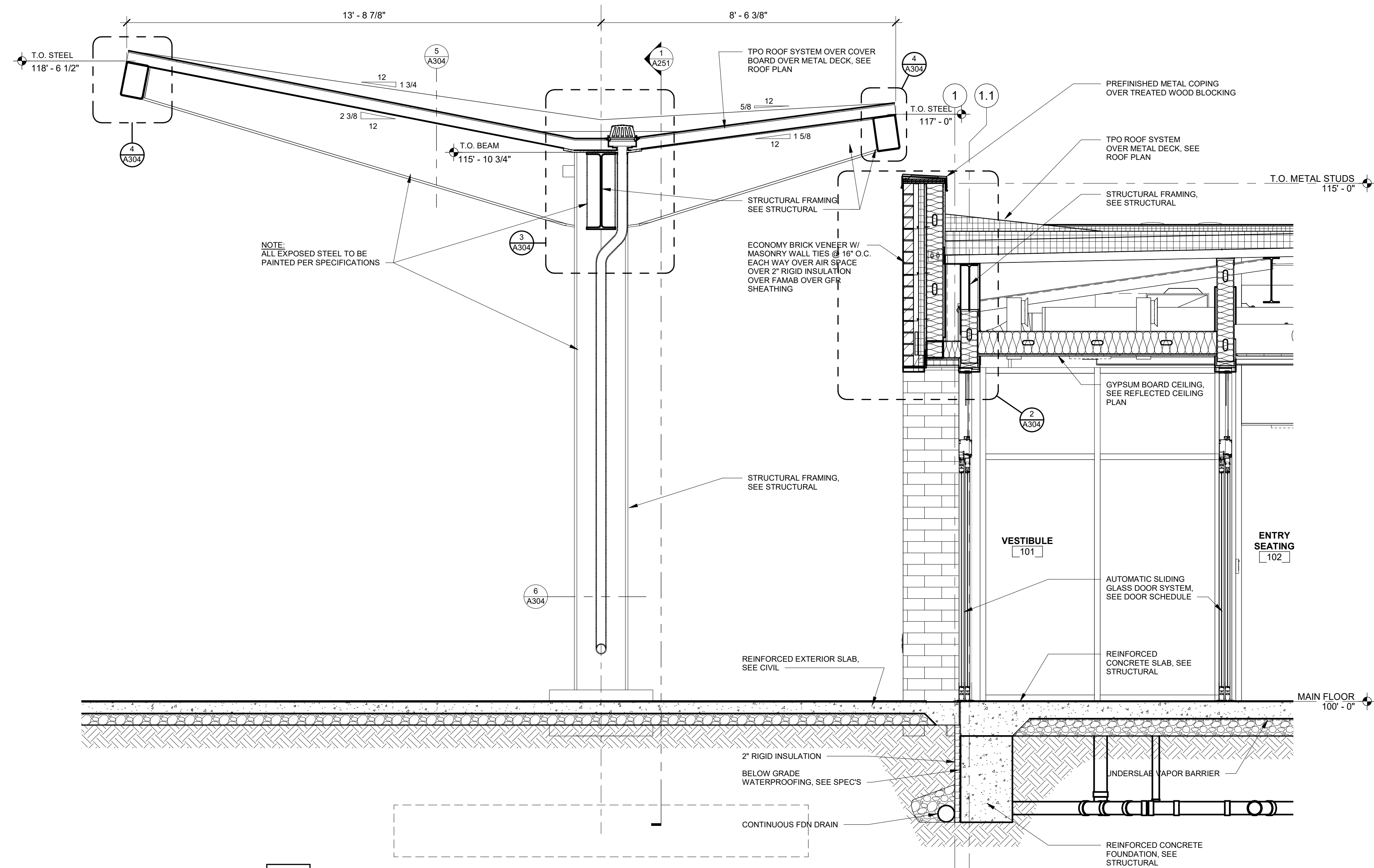
4 DETAIL
1 1/2" = 1'-0"



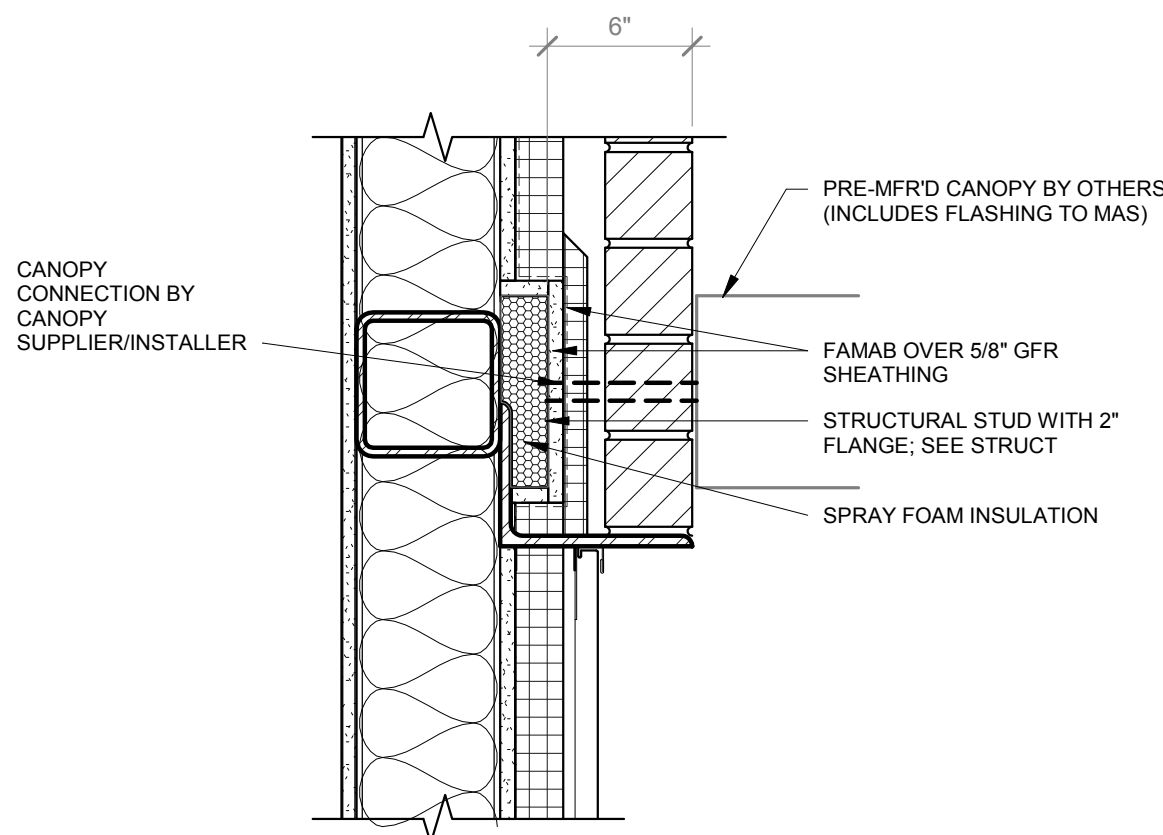
3 DETAIL
1" = 1'-0"



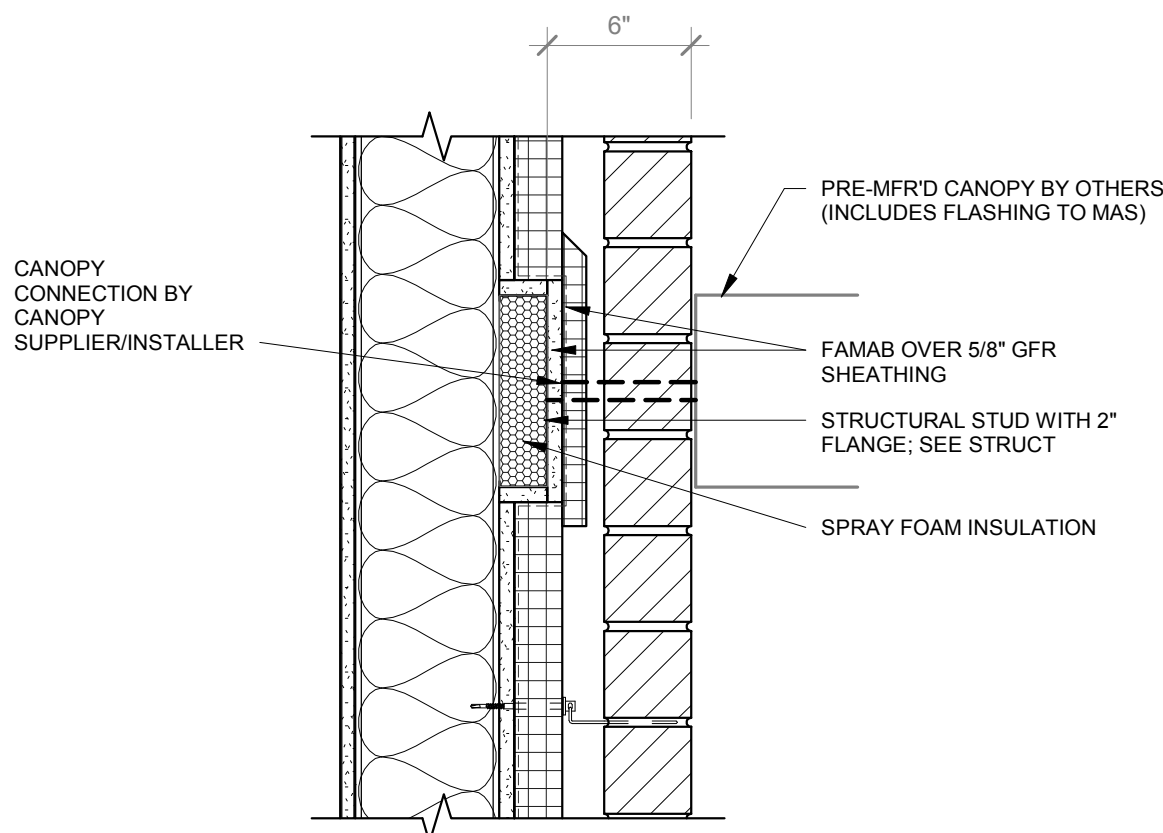
2 DETAIL
1 1/2" = 1'-0"



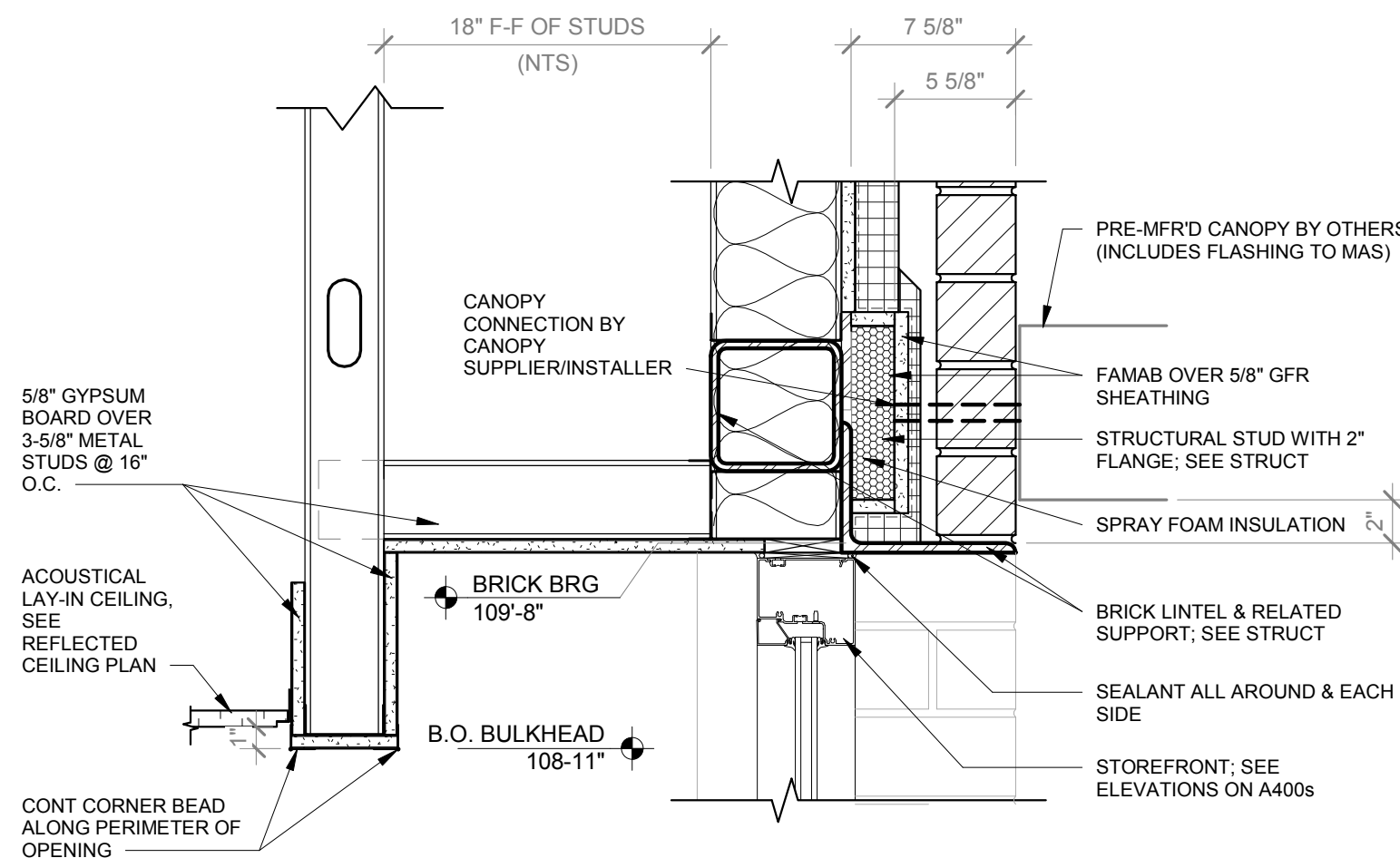
1 WALL SECTION
1/2" = 1'-0"



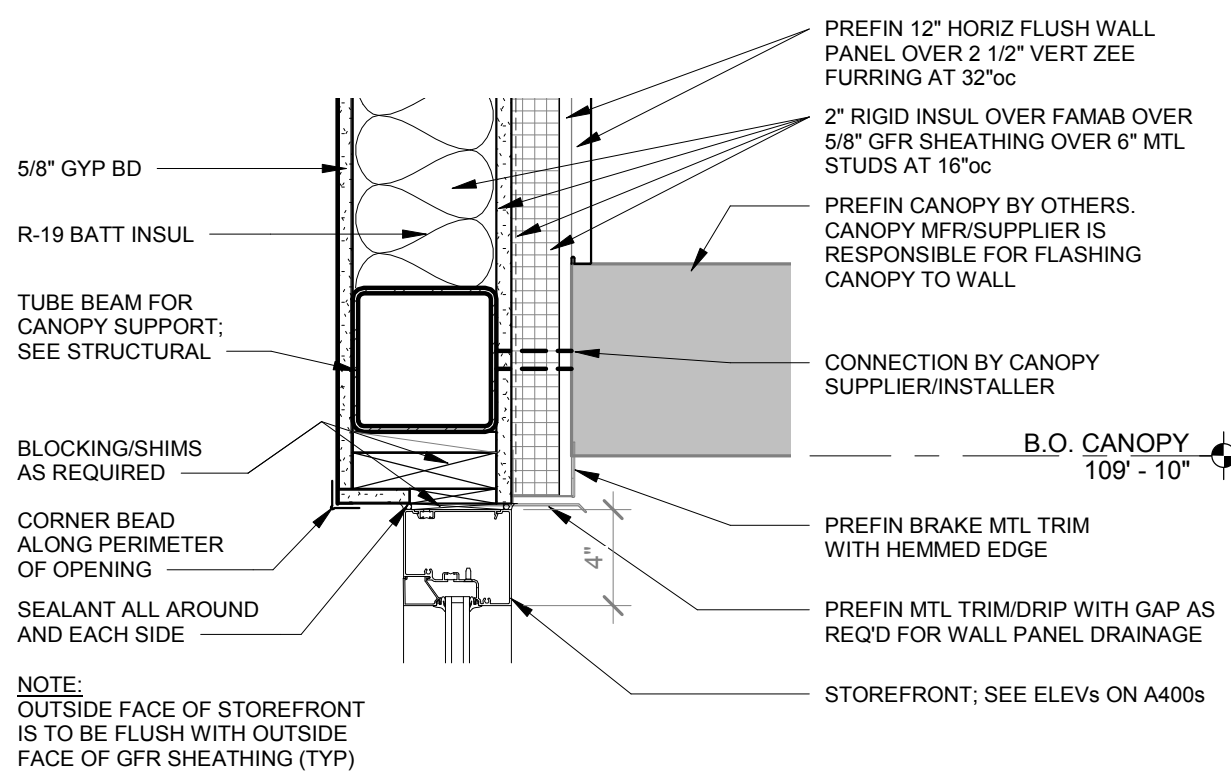
6 CANOPY AT HORIZ SIDING
1 1/2" = 1'-0"



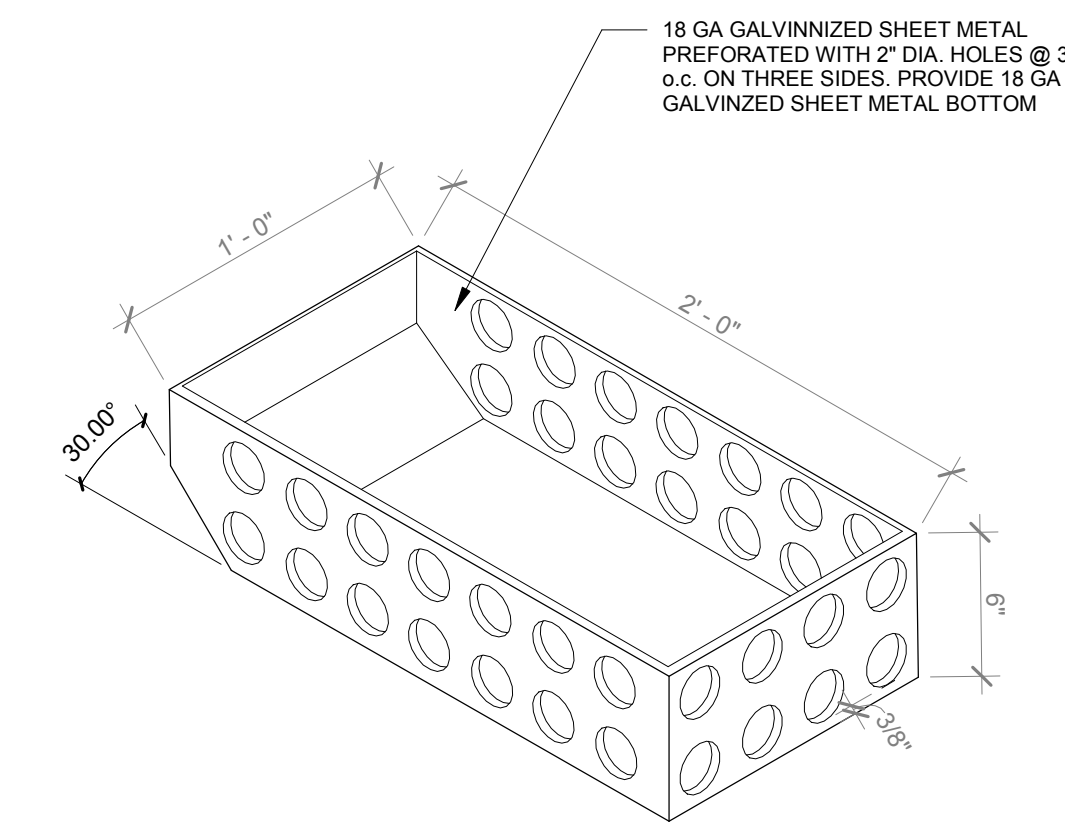
5 CANOPY AT BRICK
1 1/2" = 1'-0"



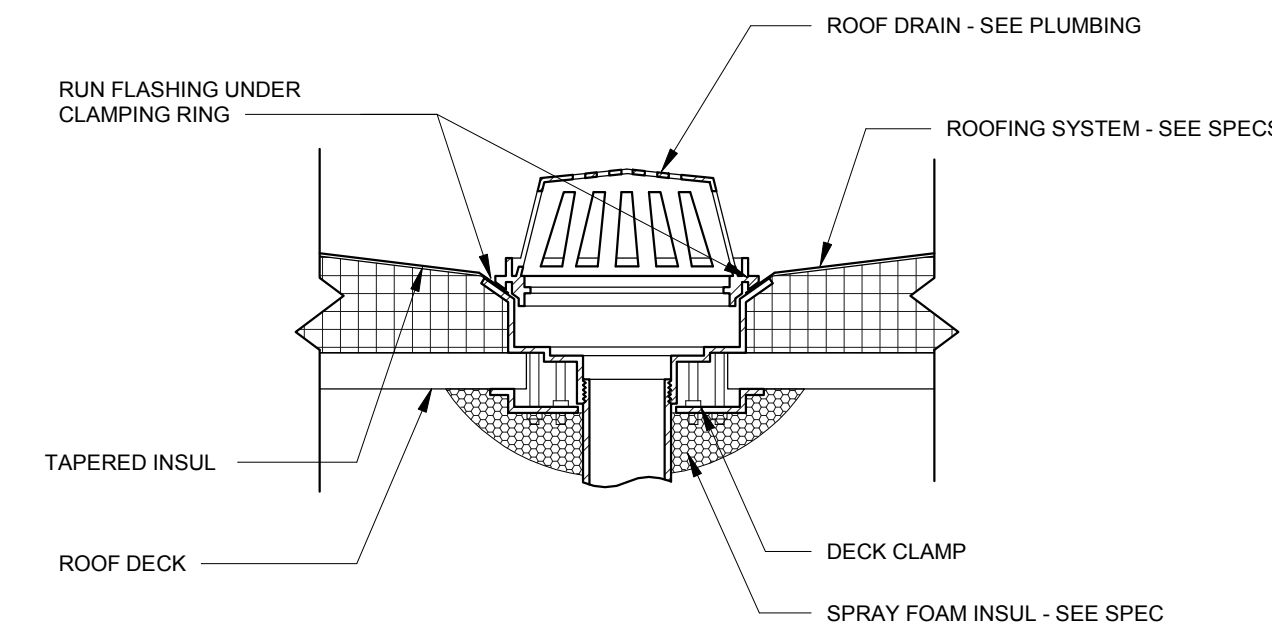
7 CANOPY AT STOREFRONT
1 1/2" = 1'-0"



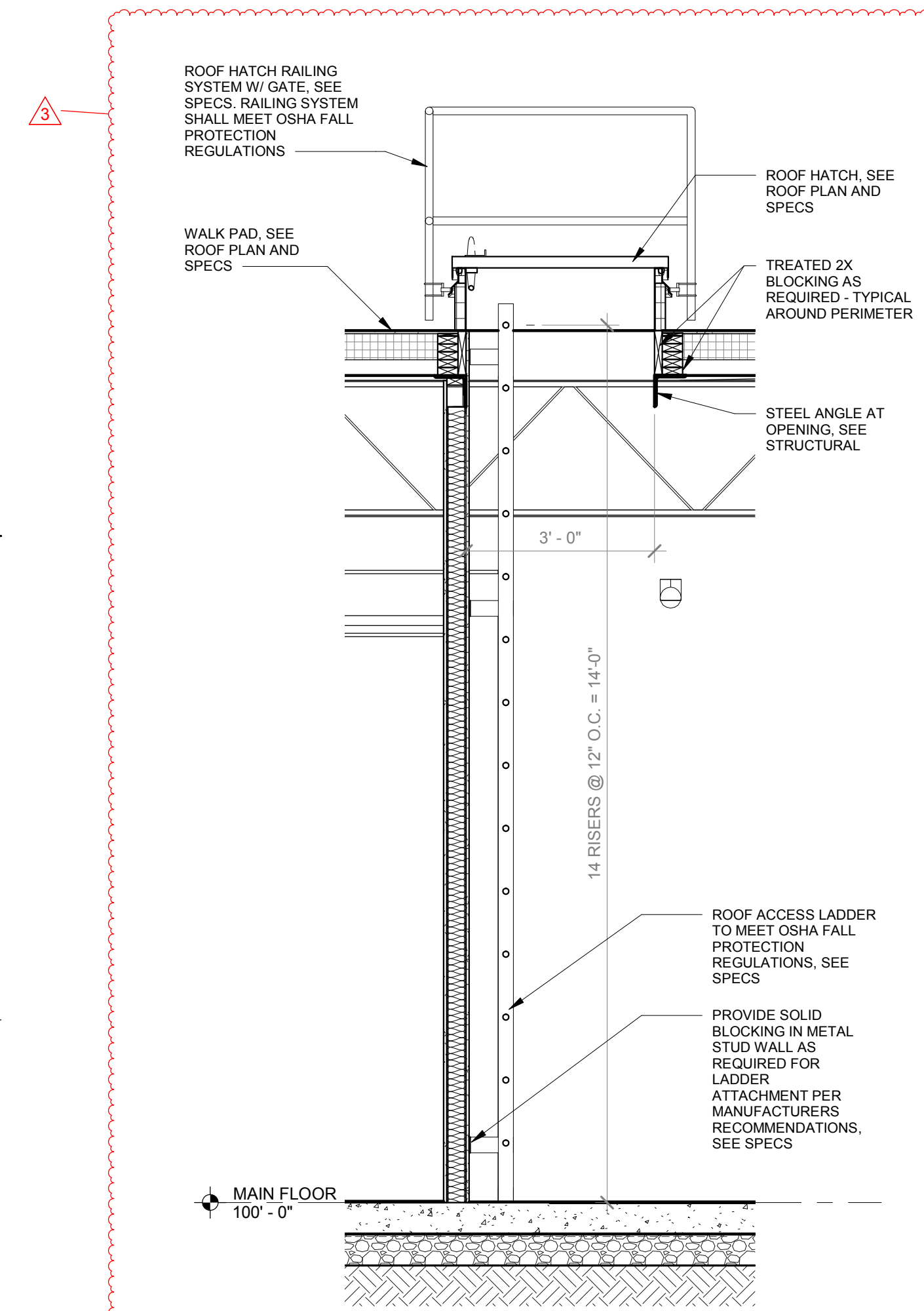
4 DETAIL
1/2" = 1'-0"



3 SPLASH PAN DETAIL
1 1/2" = 1'-0"



2 ROOF DRAIN DETAIL
1 1/2" = 1'-0"



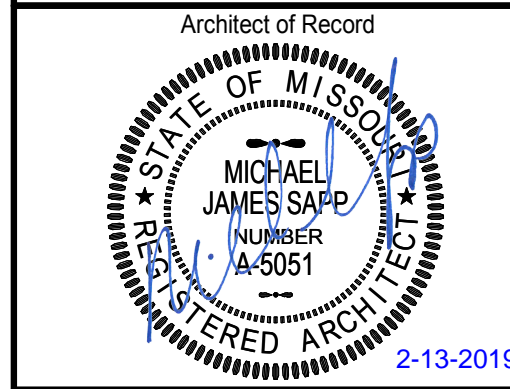
1 WALL SECTION
1/2" = 1'-0"

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Michael James Sapp, Architect MO A-5051

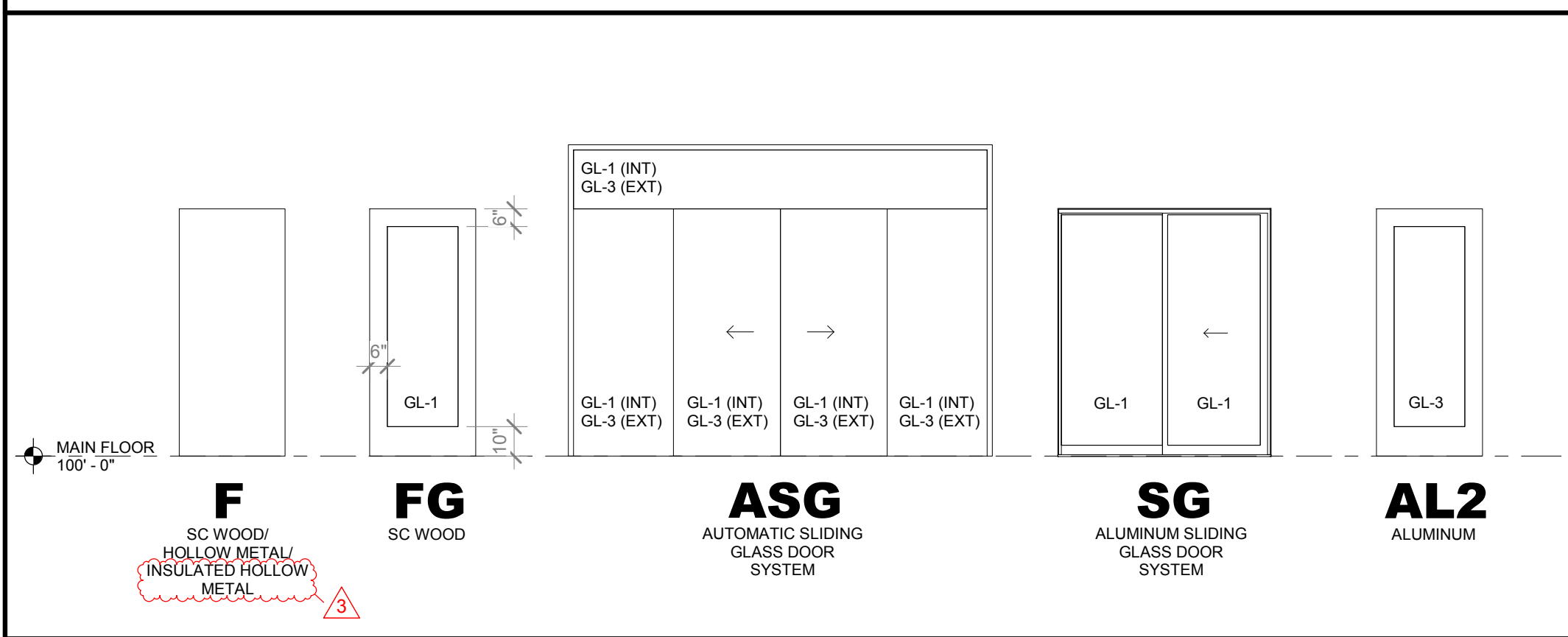
Revision No.	Description	Date
1	ASI001	01-14-2019
3	ASI003	02-13-2019

Project No.	Date	Drawn
WP04	12-07-2018	Author

Drawing No.

A305
WALL SECTIONS

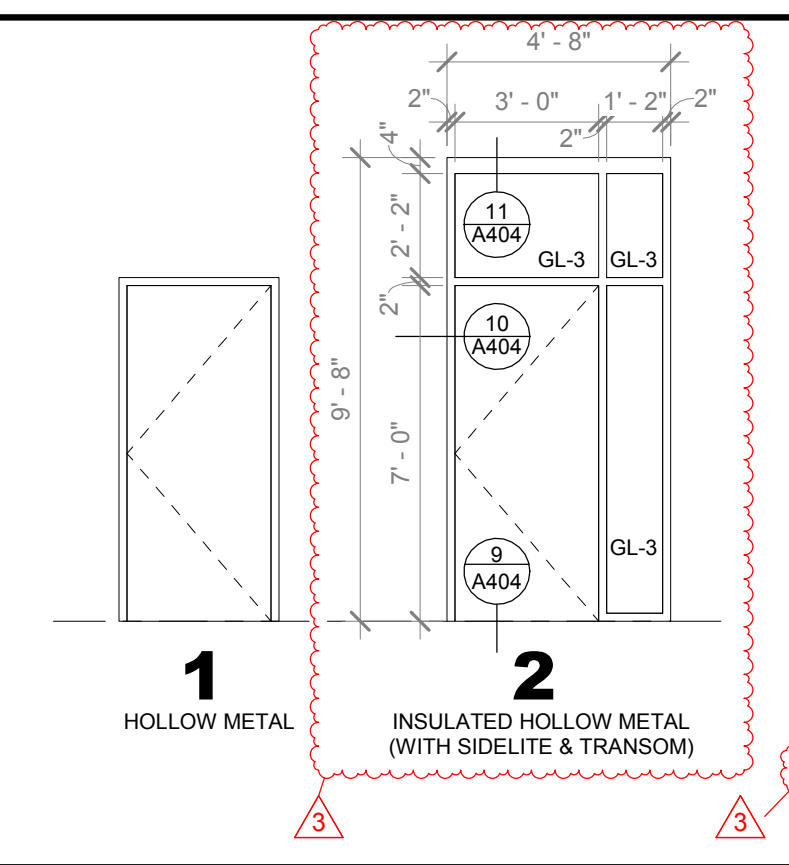
DOOR ELEVATIONS



DOOR HARDWARE

- SET 01
COMPLETE BY SLIDING DOOR MANUFACTURER
1 CYLINDER
- SET 02
3 H.W. HINGES
1 LOCKSET (CLASSROOM FUNCTION)
1 CLOSER (WITH STOP)
1 ELECTRIC STRIKE (CONNECT TO CARD READER)
1 CONTINUOUS PERIMETER GASKETING
1 AUTOMATIC DOOR BOTTOM
- SET 03
3 H.W. HINGES
1 EXIT DEVICE (RIM TYPE)
1 CLOSER (WITH HOLD OPEN)
1 CONTINUOUS PERIMETER GASKETING
1 AUTOMATIC DOOR BOTTOM
- SET 04
3 H.W. HINGES
1 LOCKSET (CLASSROOM FUNCTION)
1 CLOSER (WITH HOLD OPEN)
1 SILENCERS
- SET 05
3 H.W. HINGES
1 PUSH/PULL
1 CLOSER
1 SILENCERS
1 WALL STOP
- SET 06
6 H.W. HINGES
2 EXIT DEVICE (CONCEALED RODS)
2 CLOSER (WITH HOLD OPEN)
1 CONTINUOUS PERIMETER GASKETING
2 AUTOMATIC DOOR BOTTOM
1 SPLIT ASTRAGAL
- SET 07
3 H.W. HINGES
1 LOCKSET (PRIVACY FUNCTION)
1 CONTINUOUS PERIMETER GASKETING
1 AUTOMATIC DOOR BOTTOM
- SET 08
3 H.W. HINGES
1 EXIT DEVICE (DELAY OPEN WITH ALARM)
1 CONTINUOUS PERIMETER GASKETING (BY ALUM DOOR/FRAME MFG)
1 ELECTRIC STRIKE (CONNECT TO CARD READER) (CONNECT TO CARD READERS ON BOTH SIDES OF DOOR)
1 SILENCERS
1 WALL STOP
- SET 09
3 H.W. HINGES
1 LATCHSET (PASSAGE)
1 SILENCERS
1 WALL STOP
- SET 10
3 H.W. HINGES
1 LOCKSET (OFFICE FUNCTION)
1 SILENCERS
1 WALL STOP
- SET 11
2 PIVOTS (BY ALUM DOOR/FRAME MFG)
1 EXIT DEVICE (RIM TYPE)
1 ELECTRIC STRIKE (CONNECT TO CARD READER)
1 CLOSER
1 CONTINUOUS PERIMETER GASKETING (BY ALUM DOOR/FRAME MFG)
1 WEATHERSTRIPPING (BY ALUM DOOR/FRAME MFG)
1 THRESHOLD (BY ALUM DOOR/FRAME MFG)
- SET 12
2 PIVOTS (BY ALUM DOOR/FRAME MFG)
1 EXIT DEVICE (DELAY OPEN WITH ALARM)
1 CLOSER
1 CONTINUOUS PERIMETER GASKETING (BY ALUM DOOR/FRAME MFG)
1 WEATHERSTRIPPING (BY ALUM DOOR/FRAME MFG)
1 THRESHOLD (BY ALUM DOOR/FRAME MFG)
- SET 13
2 PIVOTS (BY ALUM DOOR/FRAME MFG)
1 EXIT DEVICE (KEYED LEVER L)
1 CLOSER
1 CONTINUOUS PERIMETER GASKETING (BY ALUM DOOR/FRAME MFG)
1 WEATHERSTRIPPING (BY ALUM DOOR/FRAME MFG)
1 THRESHOLD (BY ALUM DOOR/FRAME MFG)
- SET 14
3 H.W. HINGES
1 EXIT DEVICE (RIM TYPE)
1 ELECTRIC STRIKE (CONNECT TO CARD READER)
1 CLOSER
1 CONTINUOUS PERIMETER GASKETING
1 WEATHERSTRIPPING
1 THRESHOLD

DOOR FRAME ELEVATIONS



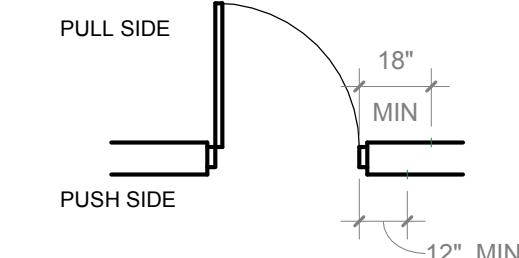
DOOR SCHEDULE

DOOR NO.	CONFIG	DOOR					FRAME								HDWR SET	COMMENTS
		WIDTH	HEIGHT	THICK	TYPE	MATL	TYPE	MATL	DETAIL							
									HEAD	LEFT JAMB	RIGHT JAMB	SILL				
101a	SLIDER	12' - 7"	7' - 0"	1 3/4"	ASG	AL/F3	SF-6a	AL/F3	2/A304	2/A403	1/A403	5/A403	01	AUTO SLIDING GLASS DOOR - EXTERIOR		
101b	SLIDER	12' - 7"	7' - 0"	1 3/4"	ASG	AL/F3	SF-6b	AL/F3	4/A403	3/A403	3/A403	5/A403 SIM	BY MFG	AUTO SLIDING GLASS DOOR - INTERIOR		
103	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HMF1	3/A404	4/A404	4/A404	-	07			
104	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HMF1	3/A404	4/A404	4/A404	-	05			
105	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HMF1	3/A404	4/A404	4/A404	-	05			
106	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HMF1	3/A404	4/A404	4/A404	-	04			
108a	SINGLE	3' - 0"	7' - 0"	1 3/4"	FG	WD/F2	1	HMF1	3/A404	4/A404	4/A404	-	10			
108b	SINGLE	3' - 0"	7' - 0"	1 3/4"	FG	WD/F2	SF-23	AL/F3	10/A403	11/A403	2/A402 SIM	12/A403	10			
109	SINGLE	3' - 0"	7' - 0"	1 3/4"	FG	WD/F2	SF-23	AL/F3	10/A403	11/A403	2/A402 SIM	12/A403	08			
110	SLIDER	6' - 0"	7' - 0"	1 1/2"	SG	AL/F3	SG	AL/F3	7/A402	8/A402	8/A402	-	10	MALL FRONT SLIDING GLASS DOOR		
111	SINGLE	3' - 0"	7' - 0"	1 3/4"	FG	WD/F2	1	HMF1	3/A404	4/A404	4/A404	-	09			
112	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HMF1	3/A404	4/A404	4/A404	-	04			
113	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HMF1	3/A404	4/A404	4/A404	-	07			
114	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HMF1	3/A404	4/A404	4/A404	-	04			
115	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HMF1	3/A404	4/A404	4/A404	-	04			
116a	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	IHM	2	IHM/F1	11/A404	10/A404	10/A404 SIM	9/A404	14			
116b	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HMF1	3/A404	4/A404	4/A404	-	04			
118a	SINGLE	3' - 0"	7' - 0"	1 3/4"	AL2	AL/F3	SF-13	AL/F3	6/A404	-	6/A403	5/A404	13			
118b	SINGLE	3' - 0"	7' - 0"	1 3/4"	AL2	AL/F3	SF-20	AL/F3	6/A404 SIM	1/A404	2/A404	5/A404	12			
119a	PAIR	6' - 0"	7' - 0"	1 3/4"	FG	WD/F2	SF-4	AL/F3	12/A403	3/A402	11/A403	12/A403	06			
119b	SINGLE	3' - 0"	7' - 0"	1 3/4"	FG	WD/F2	1	HMF1	3/A404	4/A404	4/A404	-	03			
120	SINGLE	3' - 0"	7' - 0"	1 3/4"	FG	WD/F2	SF-1	AL/F3	10/A403	11/A403	2/A402 SIM	12/A403	02			
121	SINGLE	3' - 0"	7' - 0"	1 3/4"	FG	WD/F2	SF-1	AL/F3	10/A403	11/A403	2/A402 SIM	12/A403	02			
122	SINGLE	3' - 0"	7' - 0"	1 3/4"	FG	WD/F2	SF-2	AL/F3	10/A403	2/A402 SIM	11/A403	12/A403	02			
124	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HMF1	3/A404	4/A404	4/A404	-	02			
125	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HMF1	3/A404	4/A404	4/A404	-	04			

GENERAL NOTES

ALL GLAZING FOR EXTERIOR FRAMES & DOORS SHALL BE INSULATED.

REQUIRED DOOR CLEARANCES



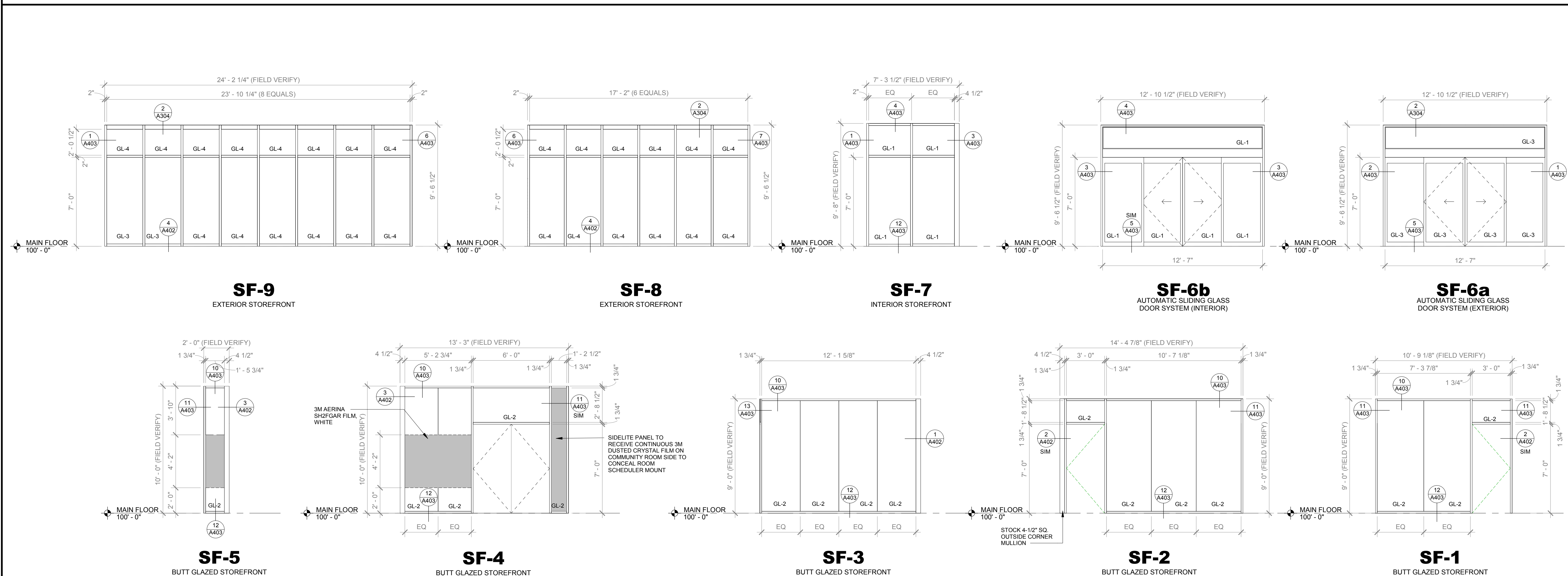
DOOR AND FRAME FINISH LEGEND

- AL = ALUM DOOR OR FRAME
FRP = FIBERGLASS REINFORCED POLYESTER
HM = HOLLOW METAL DOOR OR FRAME
IHM = INSUL HOLLOW MTL DOOR OR FRAME
WD = SOLID CORE WOOD DOOR OR FRAME
- F1 = PAINTED
F2 = STAINED
F3 = PREFINISHED - CLEAN & PROTECT

GLAZING SCHEDULE

- GL-1 = 1/4" SAFETY GLASS (CLEAR)
GL-2 = 3/8" SAFETY GLASS (CLEAR)
GL-3 = 1" INSULATED SAFETY GLASS (TINTED)
GL-4 = 1" INSULATED GLASS (TINTED)
GL-5 = 1" SPANDREL GLASS
GL-6 = 1" INSULATED GLASS (TINTED, ETCHED)

STOREFRONT ELEVATIONS



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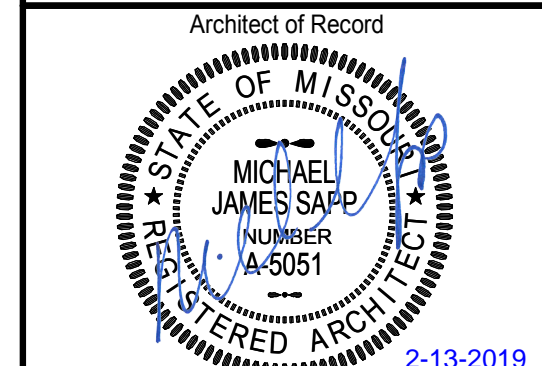
1629 Walnut
Kansas City, MO 64108 816.300.0300

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Michael James Sapp, Architect MO A-5051

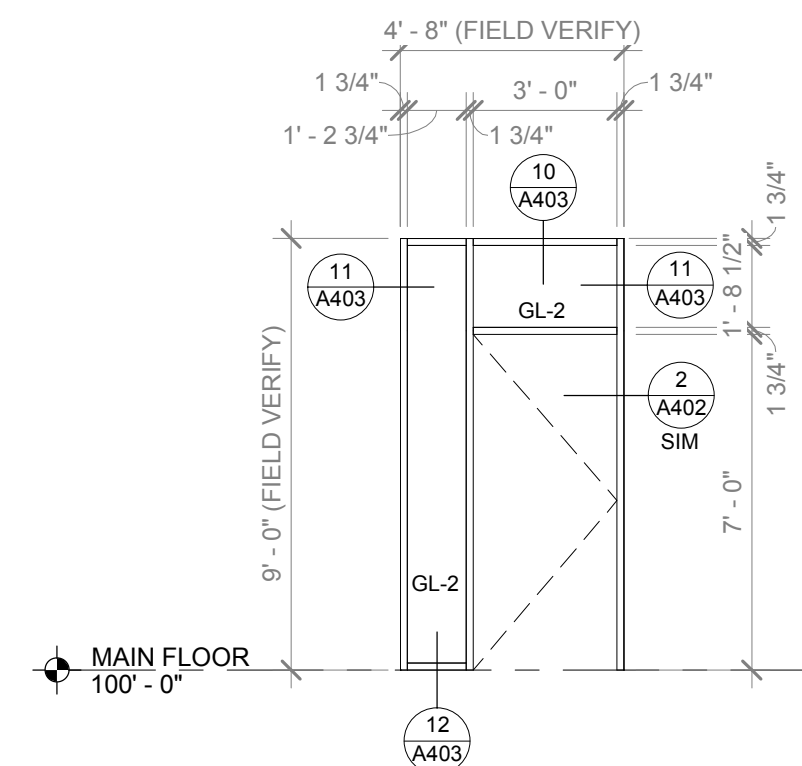
Revision No.	Description	Date
3	ASI003	02-13-2019

Project No.	Date	Drawn
WP04	12-07-2018	Author

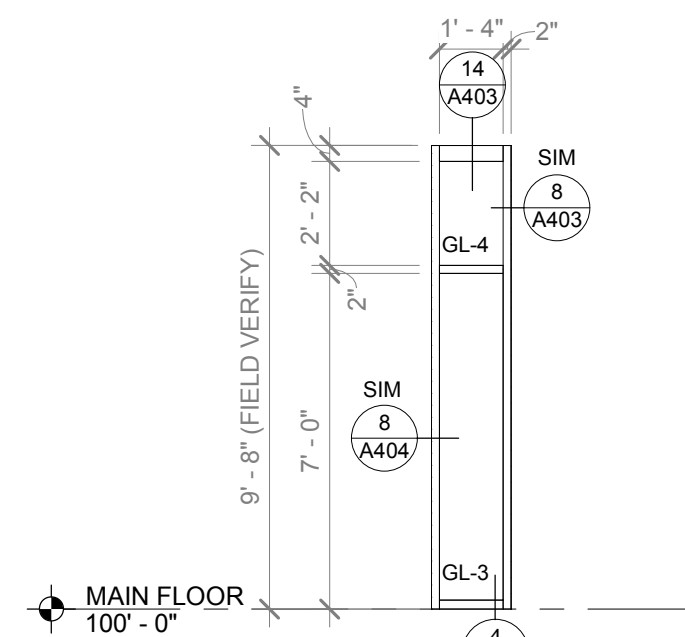
Drawing No. **A400**
DOOR SCHEDULE & ELEVATIONS

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STOREFRONT ELEVATIONS



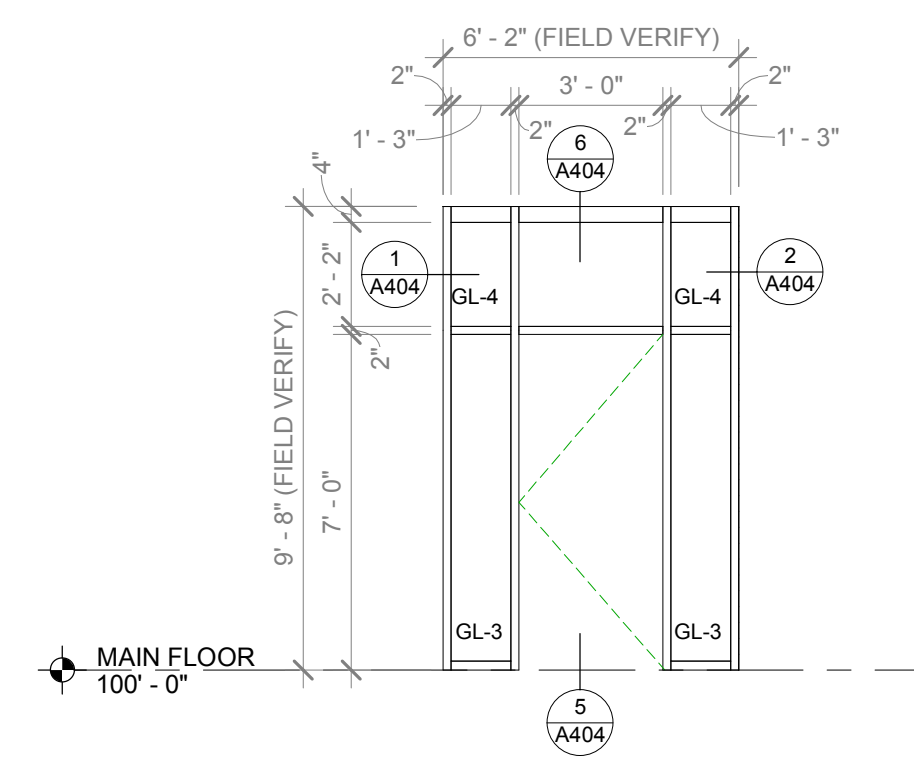
SF-23
BUTT GLAZED STOREFRONT



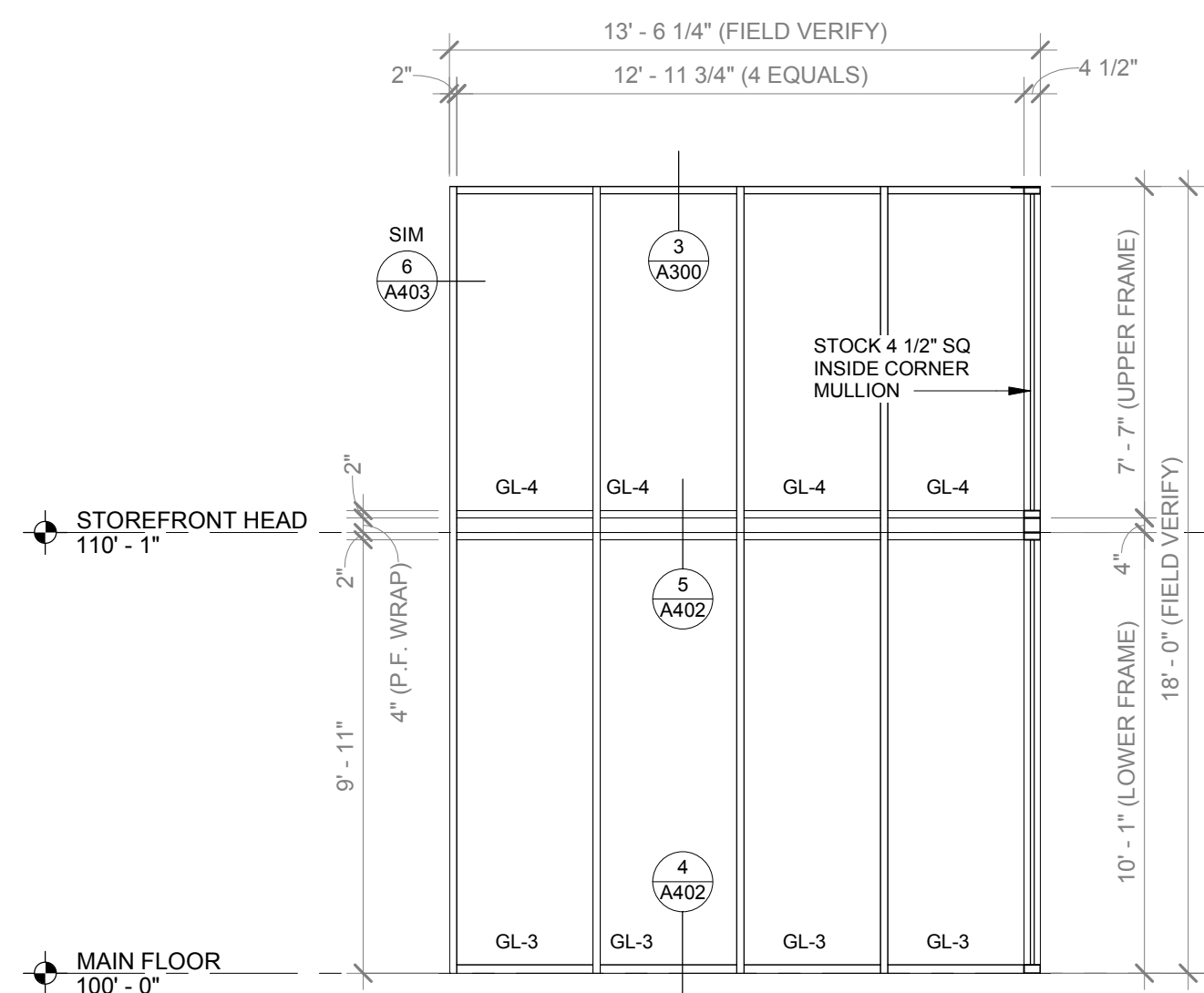
SF-22
EXTERIOR STOREFRONT

STOREFRONT
ELEVATION
OMITTED

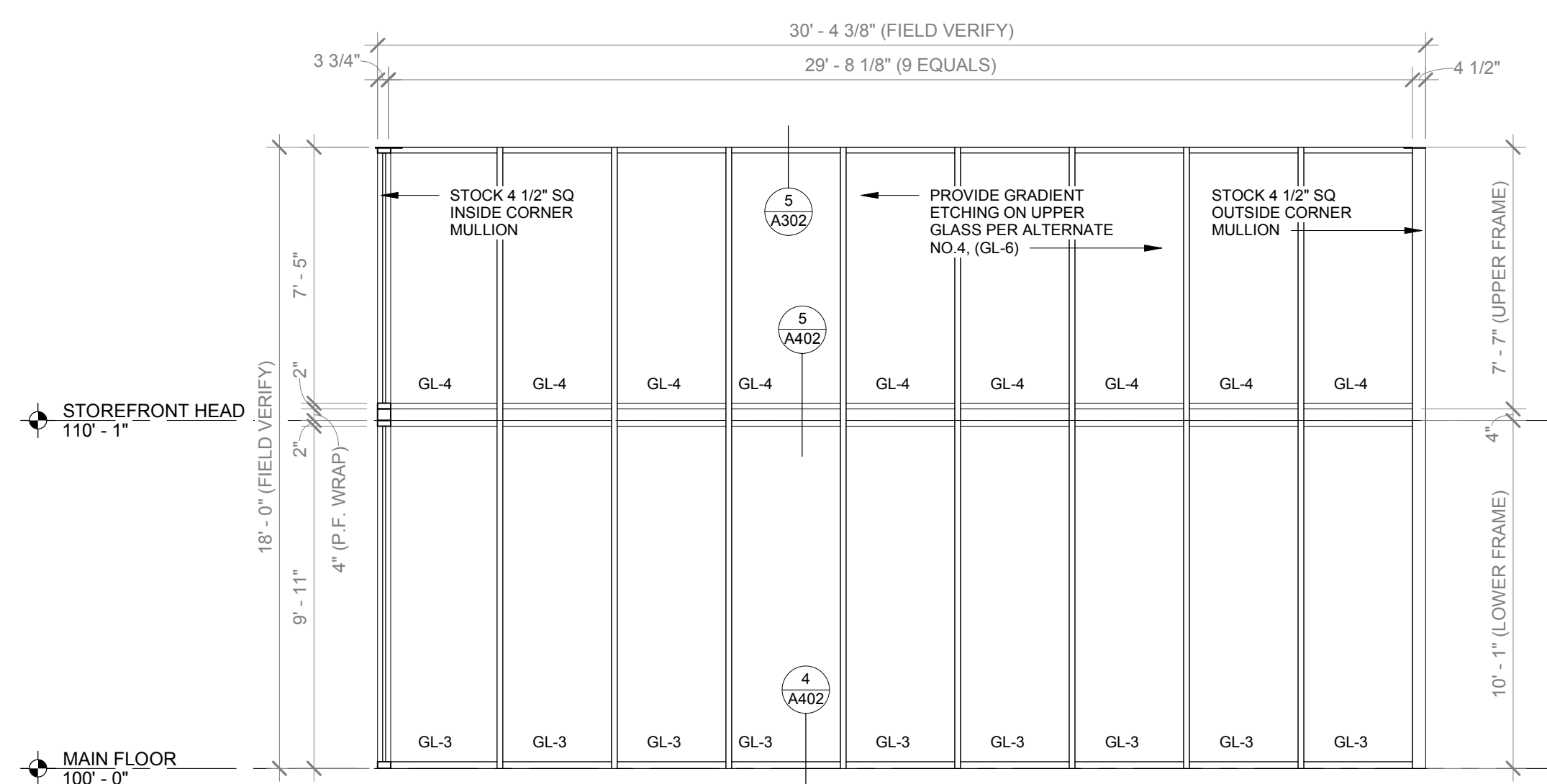
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EXTERIOR STOREFRONT



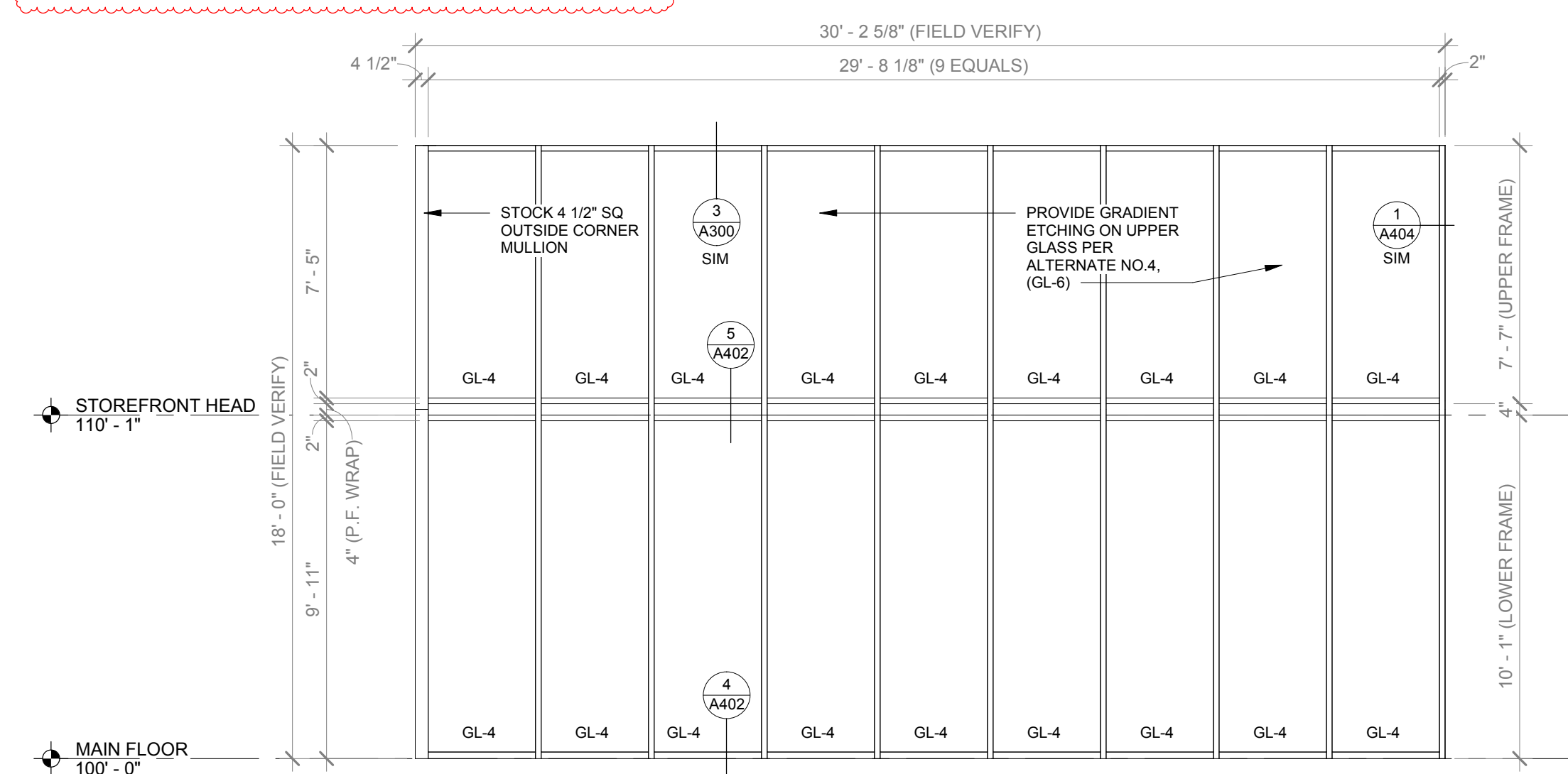
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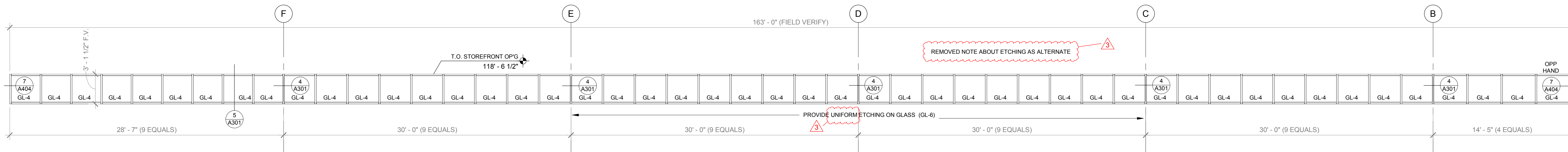
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EXTERIOR STOREFRONT



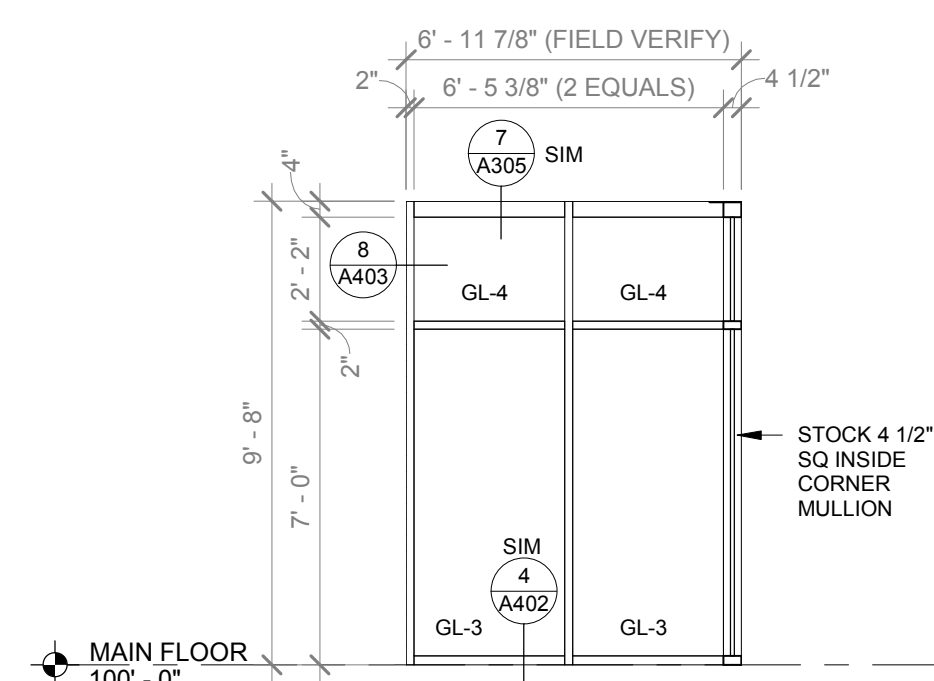
SF-18
EXTERIOR STOREFRONT



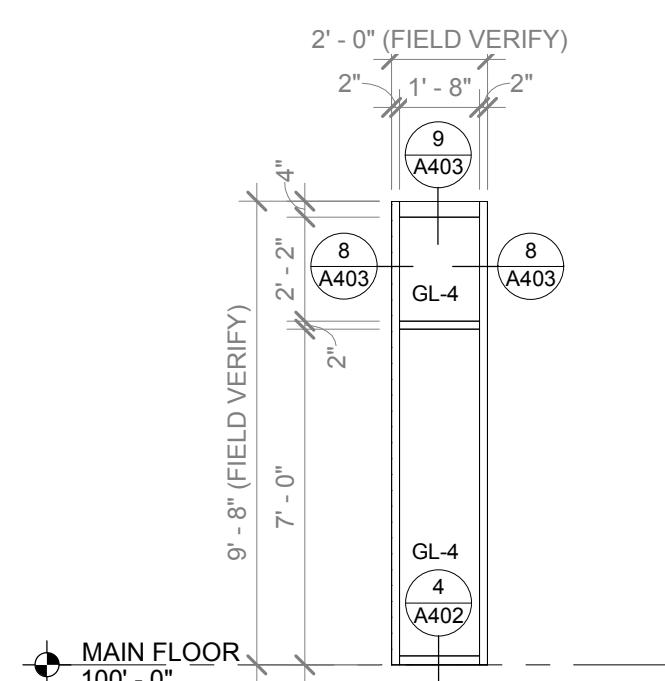
SF-17
EXTERIOR STOREFRONT



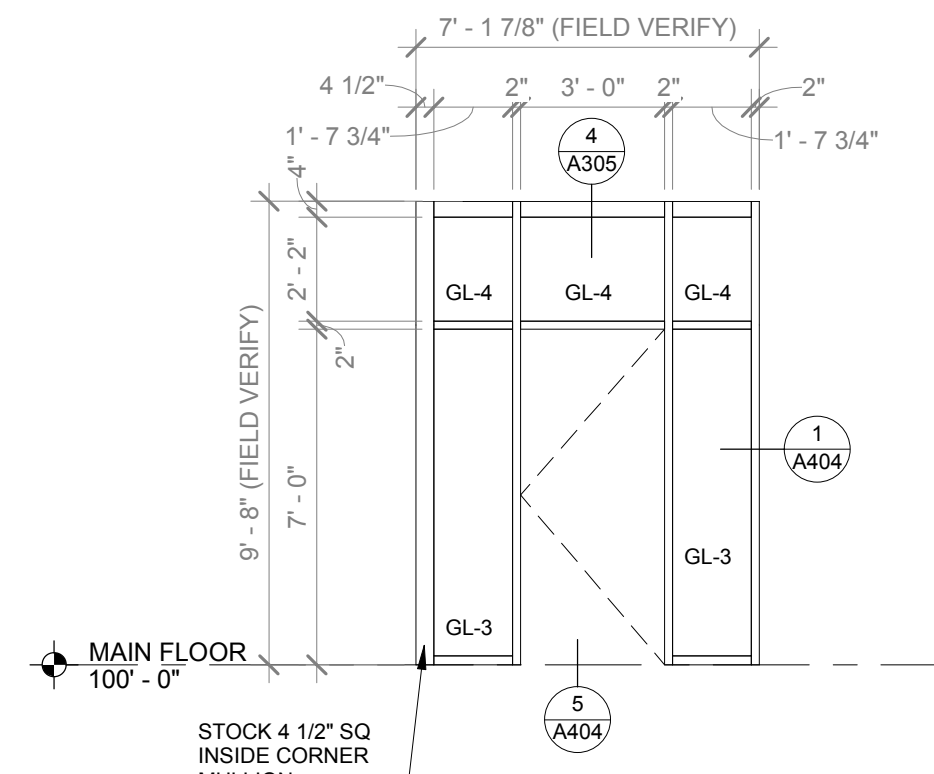
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EXTERIOR STOREFRONT



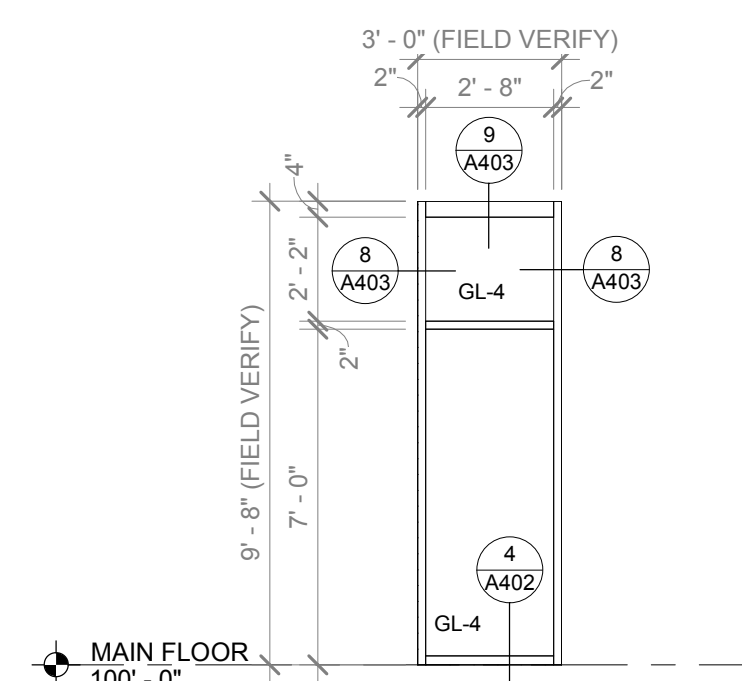
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EXTERIOR STOREFRONT



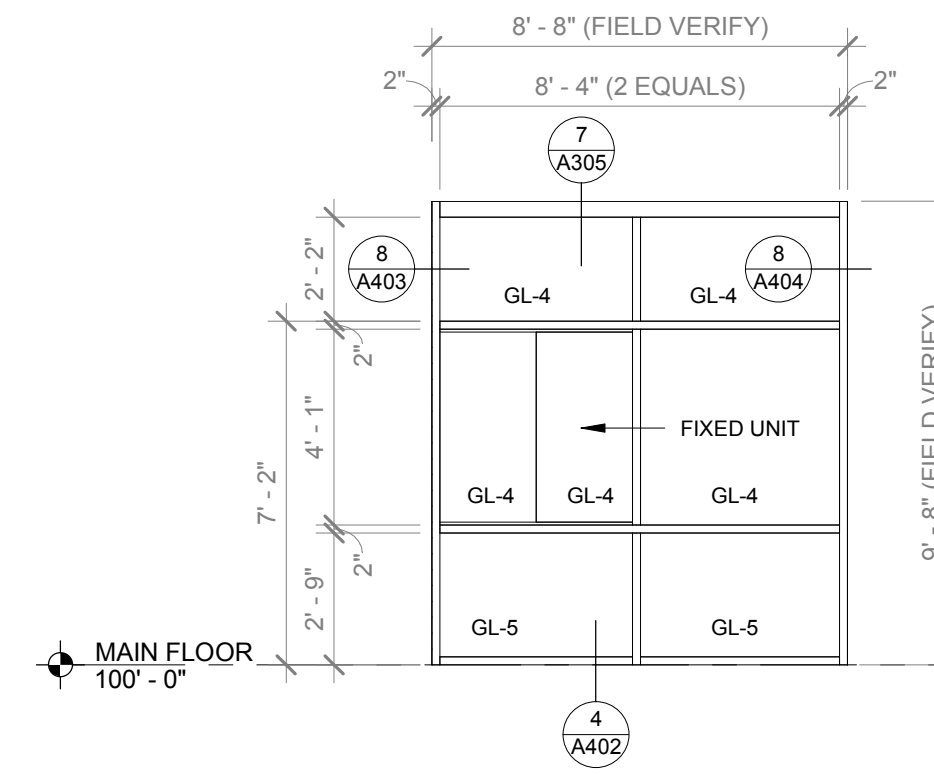
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EXTERIOR STOREFRONT



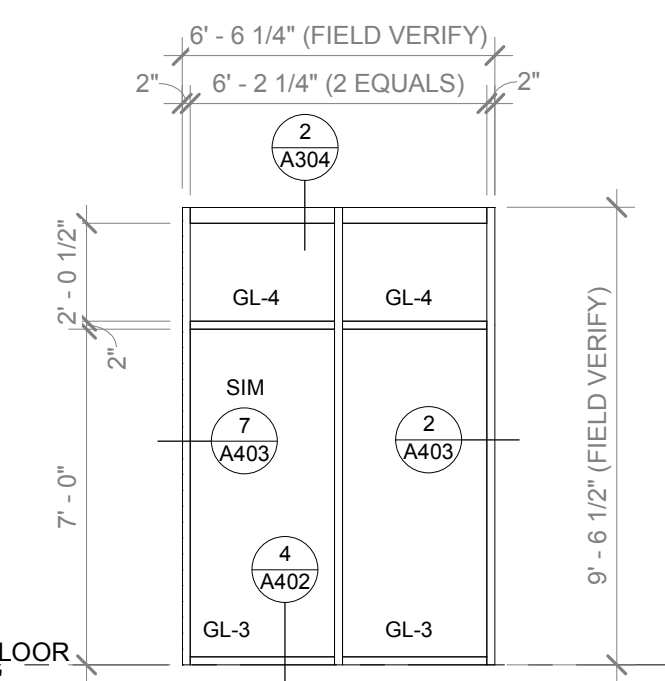
SF-13
EXTERIOR STOREFRONT



SF-12
EXTERIOR STOREFRONT



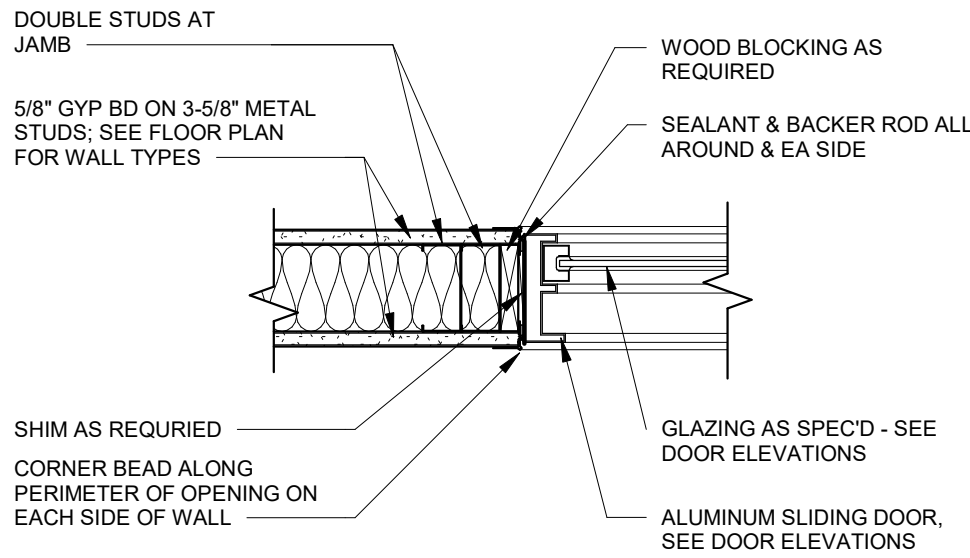
SF-11
EXTERIOR STOREFRONT (W/
SLIDING WINDOW)



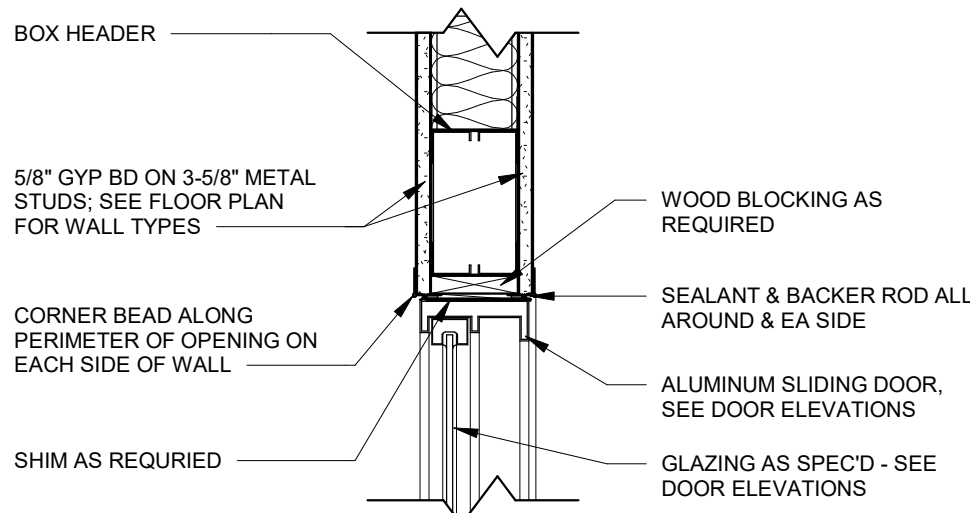
SF-10

EXTERIOR STOREFRONT

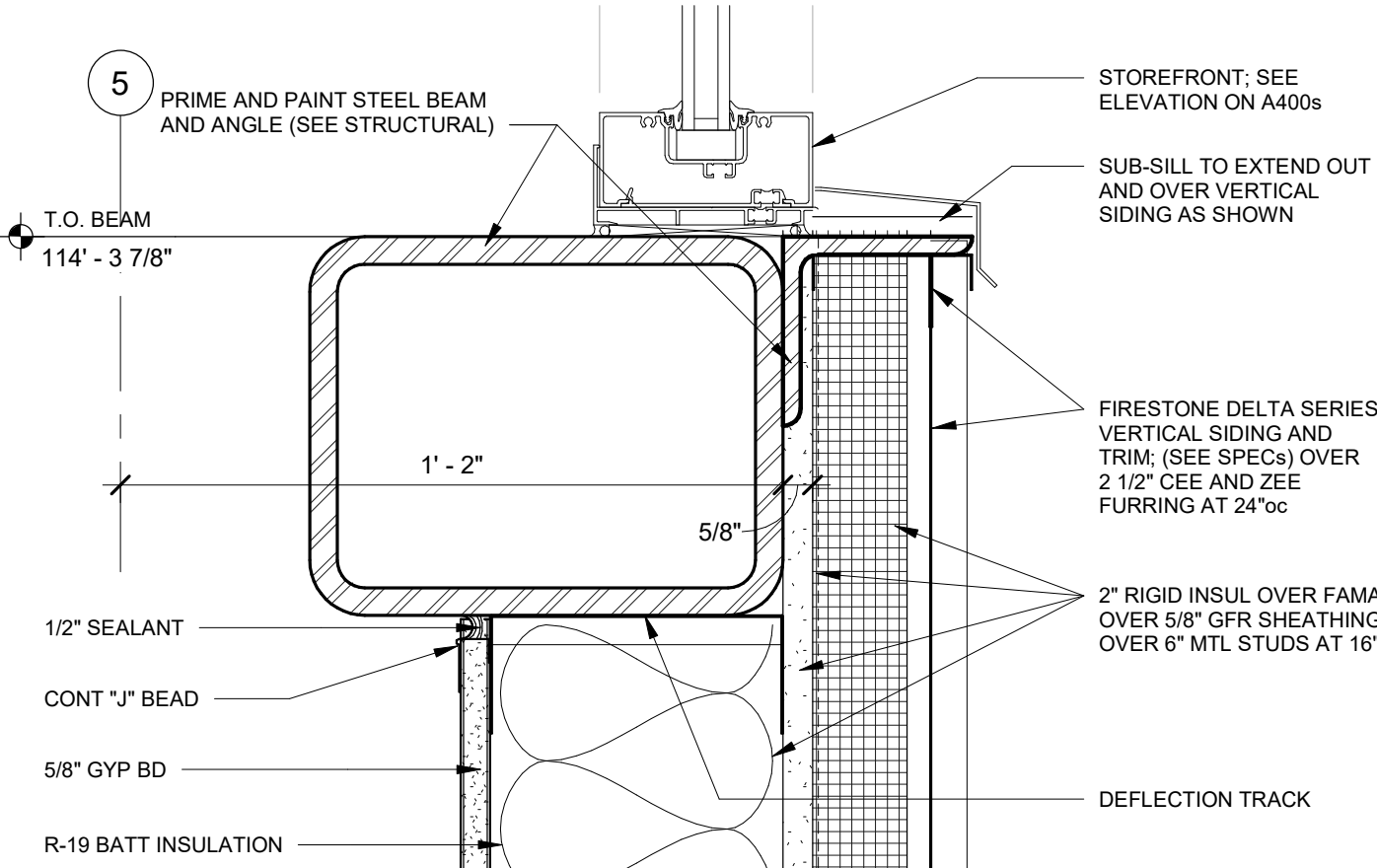
HEAD, JAMB, AND SILL DETAILS



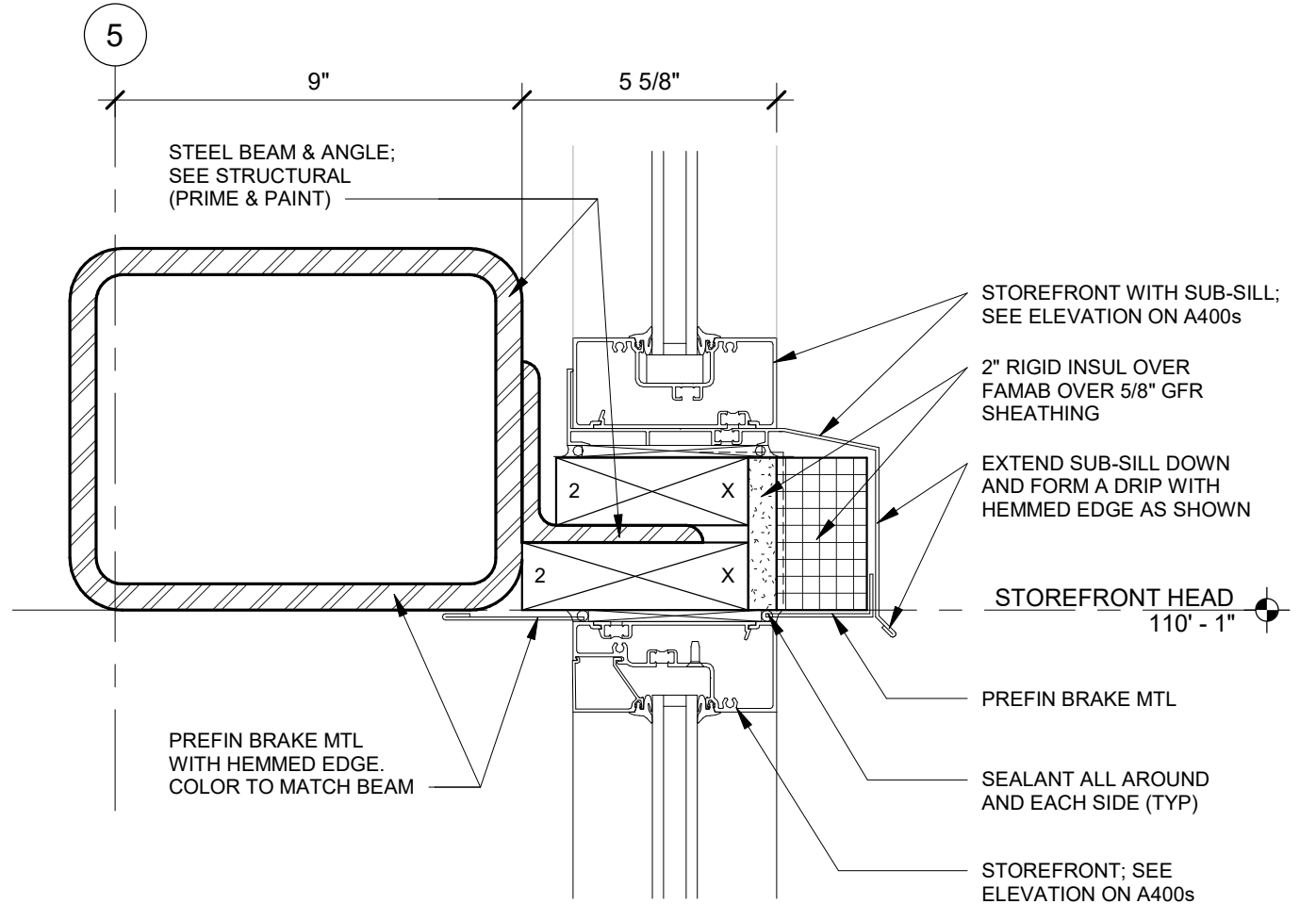
8 STOREFRONT JAMB DETAIL
1 1/2" = 1'-0" ALUMINUM MALL FRONT SLIDING DOOR



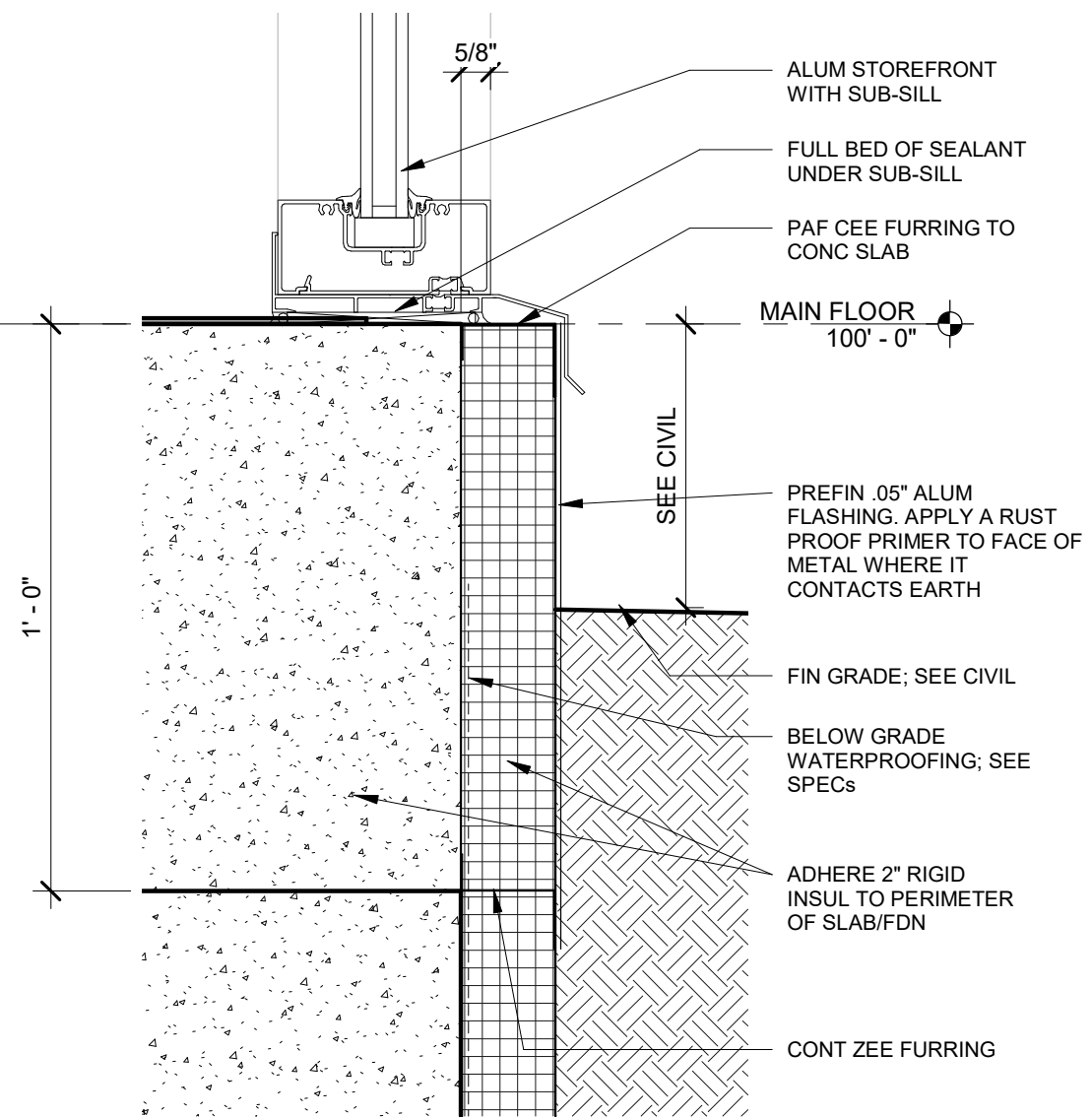
7 STOREFRONT HEAD DETAIL
1 1/2" = 1'-0" ALUMINUM MALL FRONT SLIDING DOOR



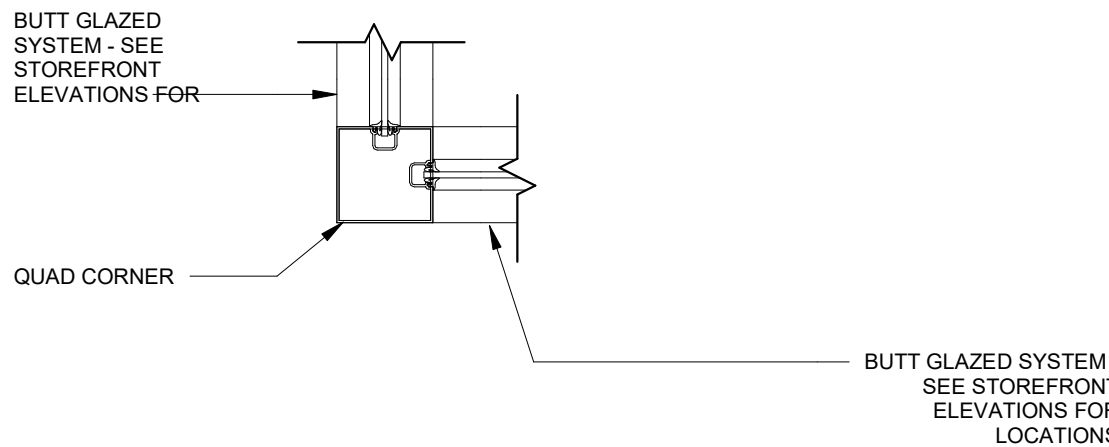
6 DETAIL
3" = 1'-0"



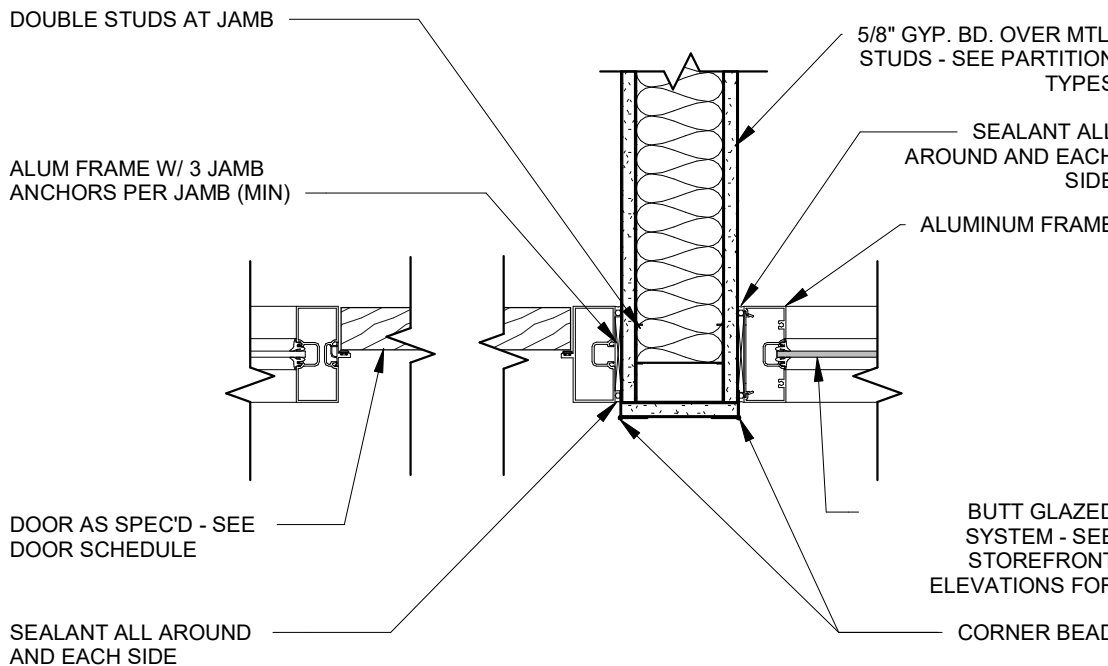
5 DETAIL
3" = 1'-0"



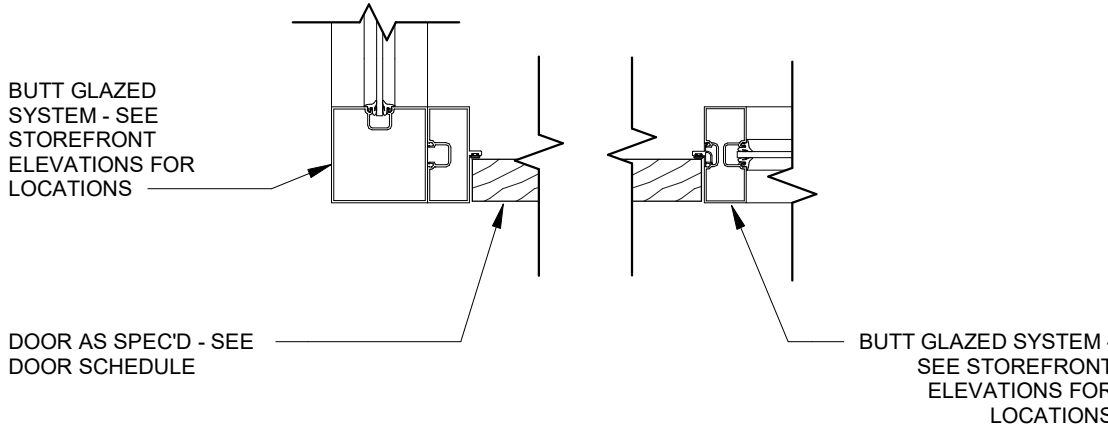
4 STOREFRONT SILL
3" = 1'-0"



3 DOOR JAMB DETAIL
1 1/2" = 1'-0" BUTT GLAZED STOREFRONT/DOOR AT CORNER

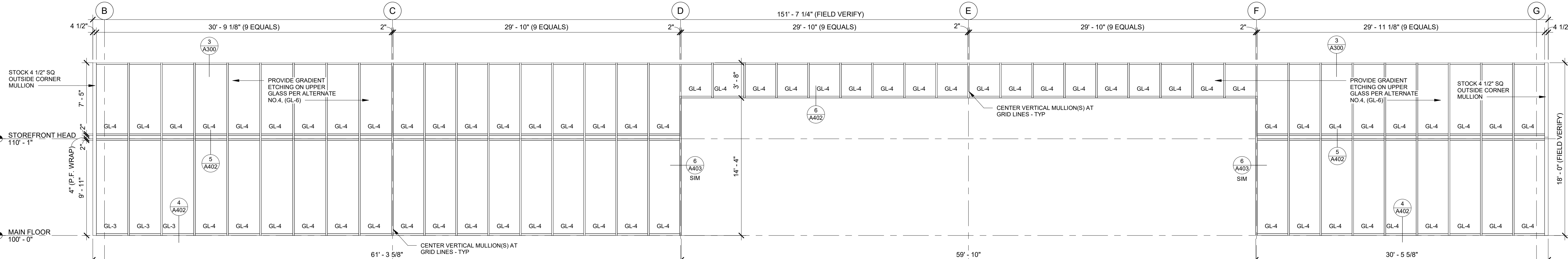


2 DOOR JAMB DETAIL
1 1/2" = 1'-0" BUTT GLAZED STOREFRONT



1 DOOR JAMB DETAIL
1 1/2" = 1'-0" BUTT GLAZED STOREFRONT/DOOR AT CORNER

STOREFRONT ELEVATIONS



SF-24
EXTERIOR STOREFRONT

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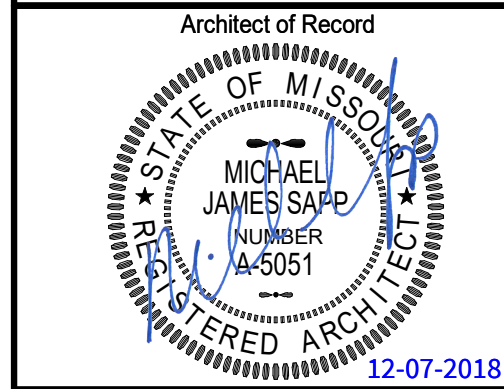
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Kansas City, MO 64108 816.300.0300

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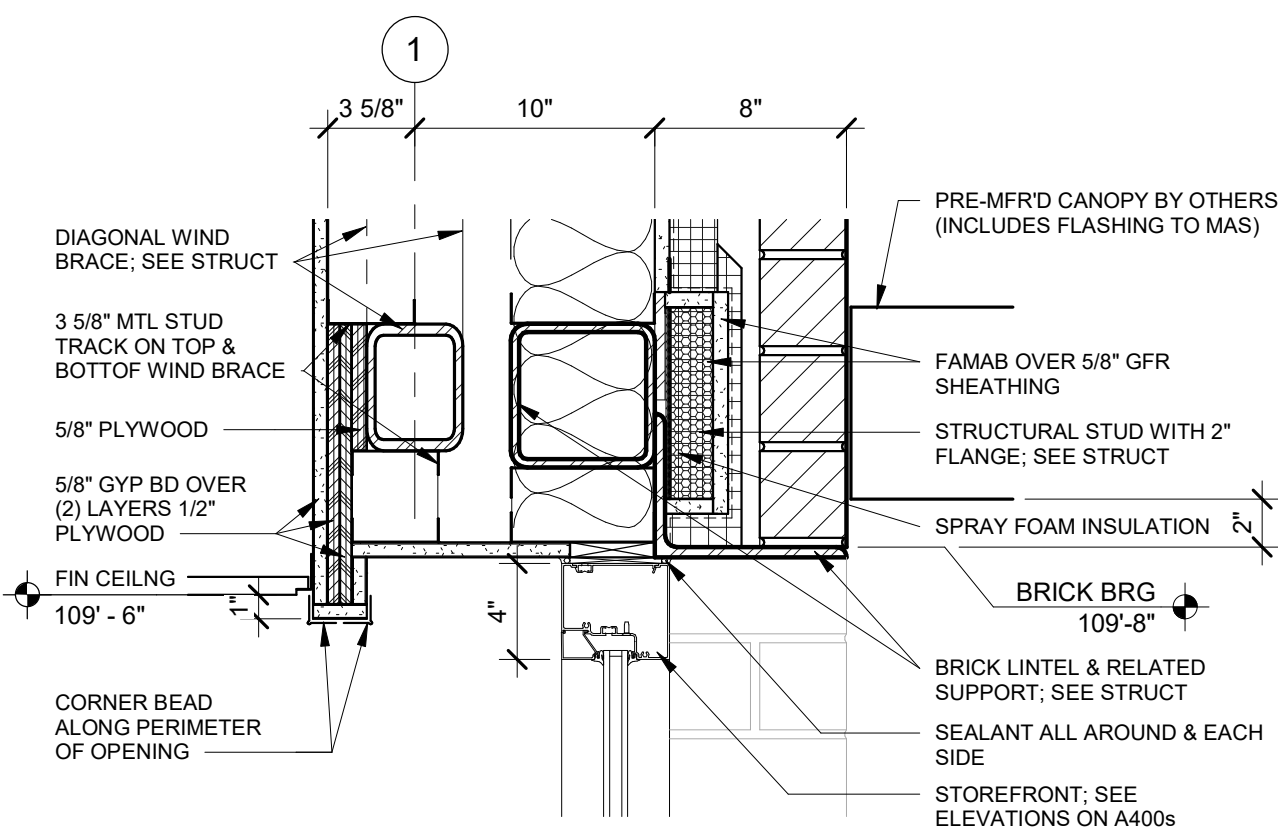
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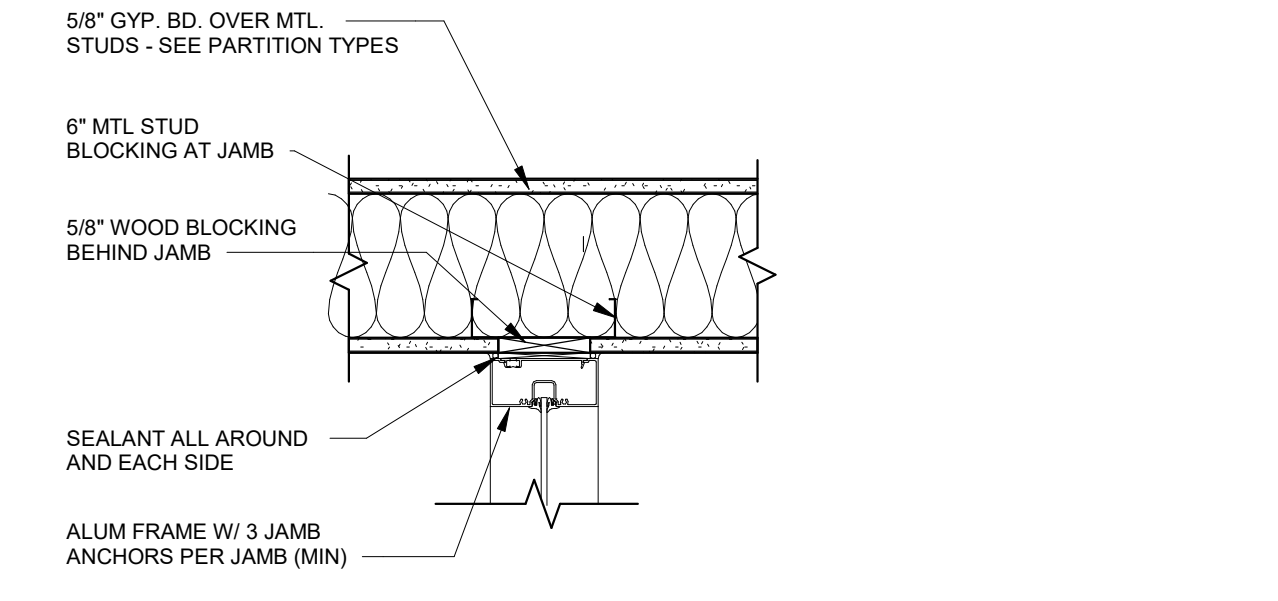
Revision No.	Description	Date
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Project No.	Date	Drawn
WP04	12-07-2018	Author

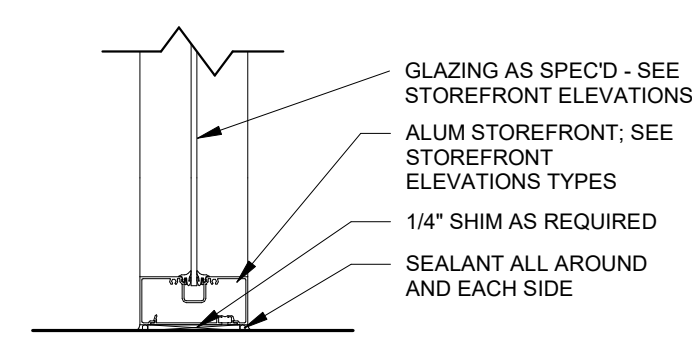
Drawing No. **A402**
STOREFRONT ELEVATIONS



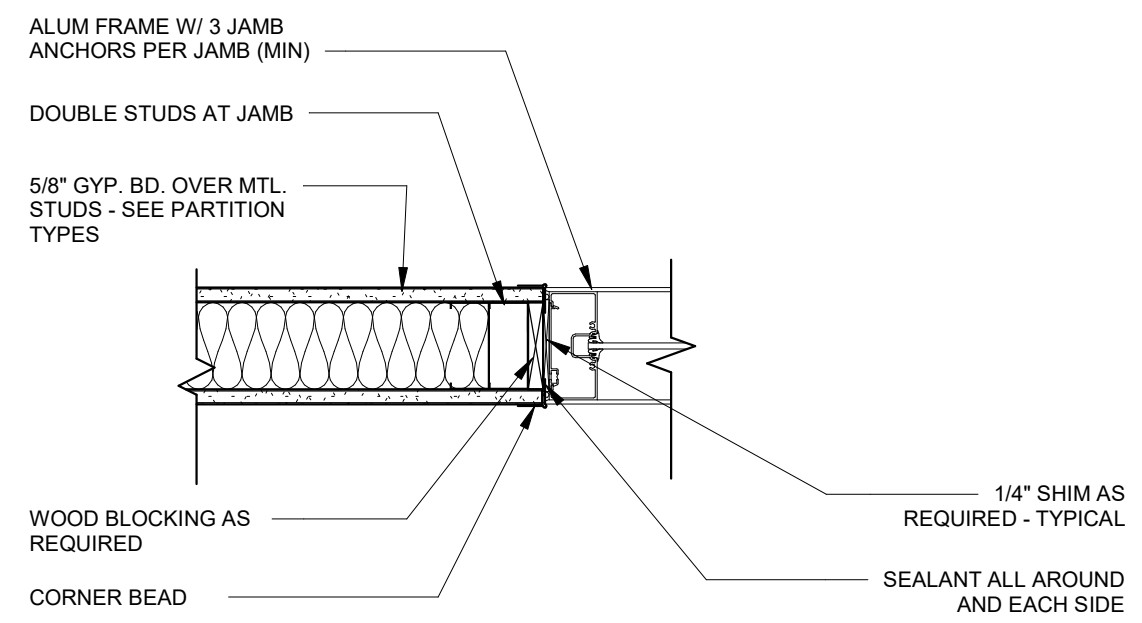
14 STOREFRONT HEAD DETAIL
1 1/2" = 1'-0"



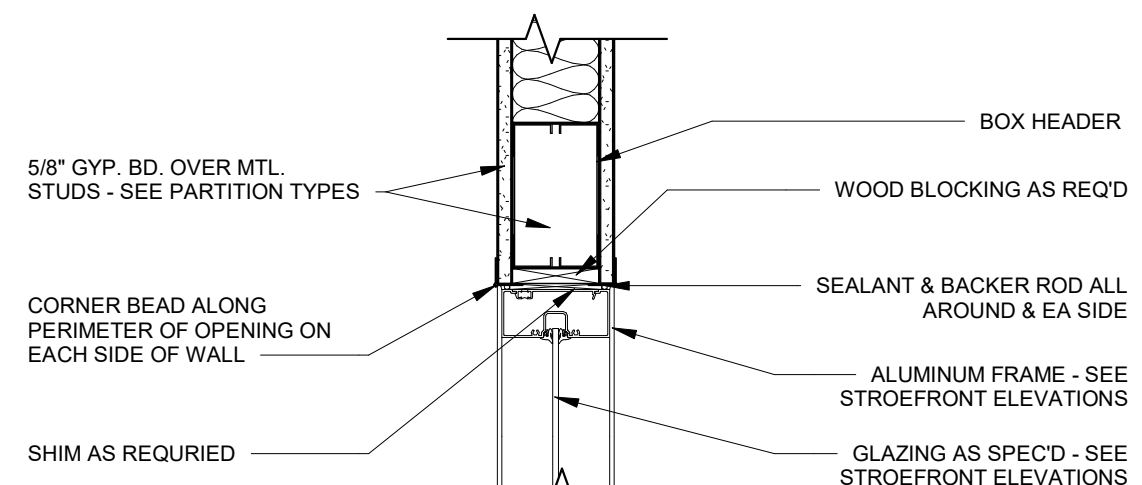
13 STOREFRONT JAMB DETAIL
1 1/2" = 1'-0" BUTT GLAZED STOREFRONT



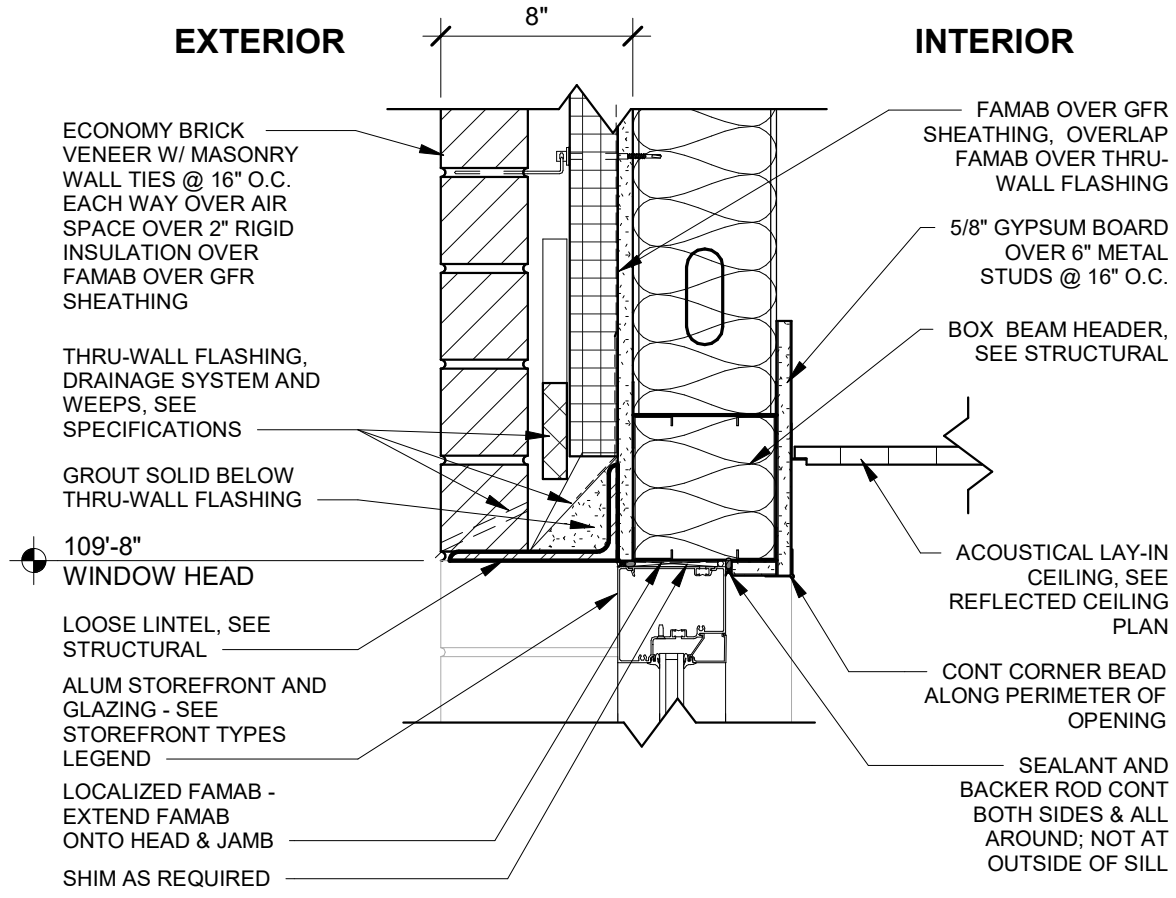
12 STOREFRONT SILL
1 1/2" = 1'-0" BUTT GLAZED ALUMINUM FRAME AT FLOOR



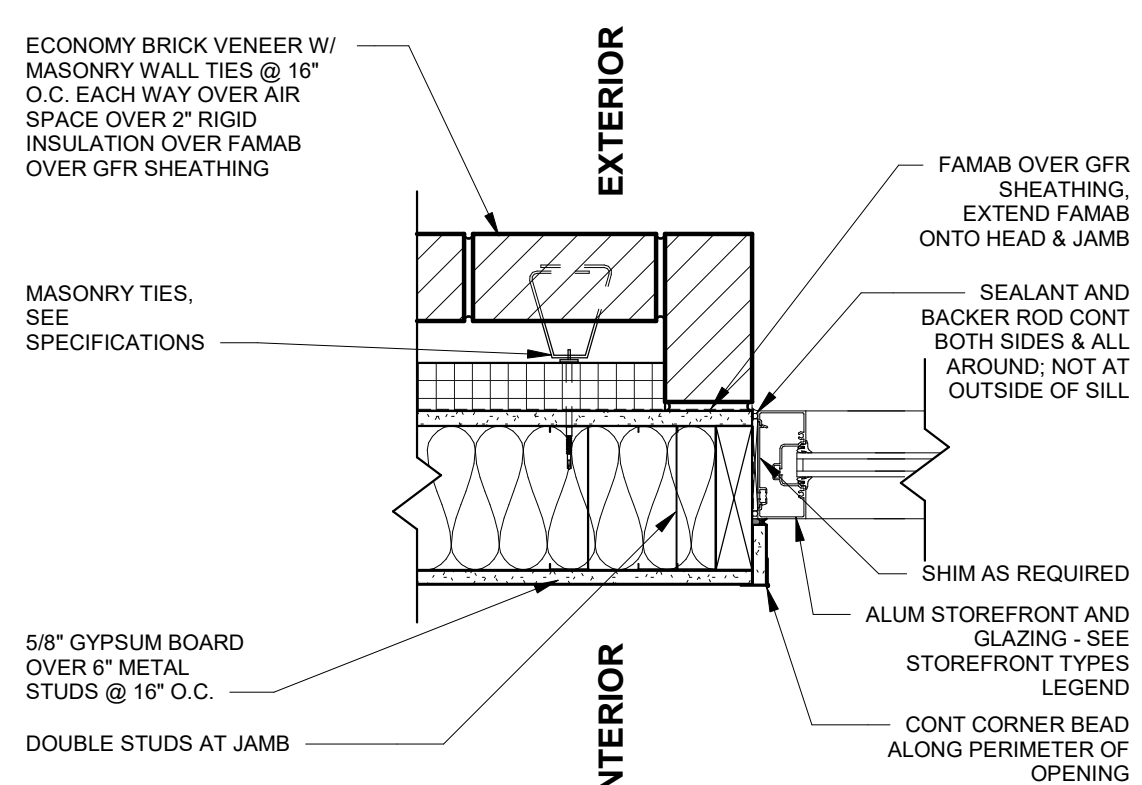
11 STOREFRONT JAMB DETAIL
1 1/2" = 1'-0" BUTT GLAZED STOREFRONT



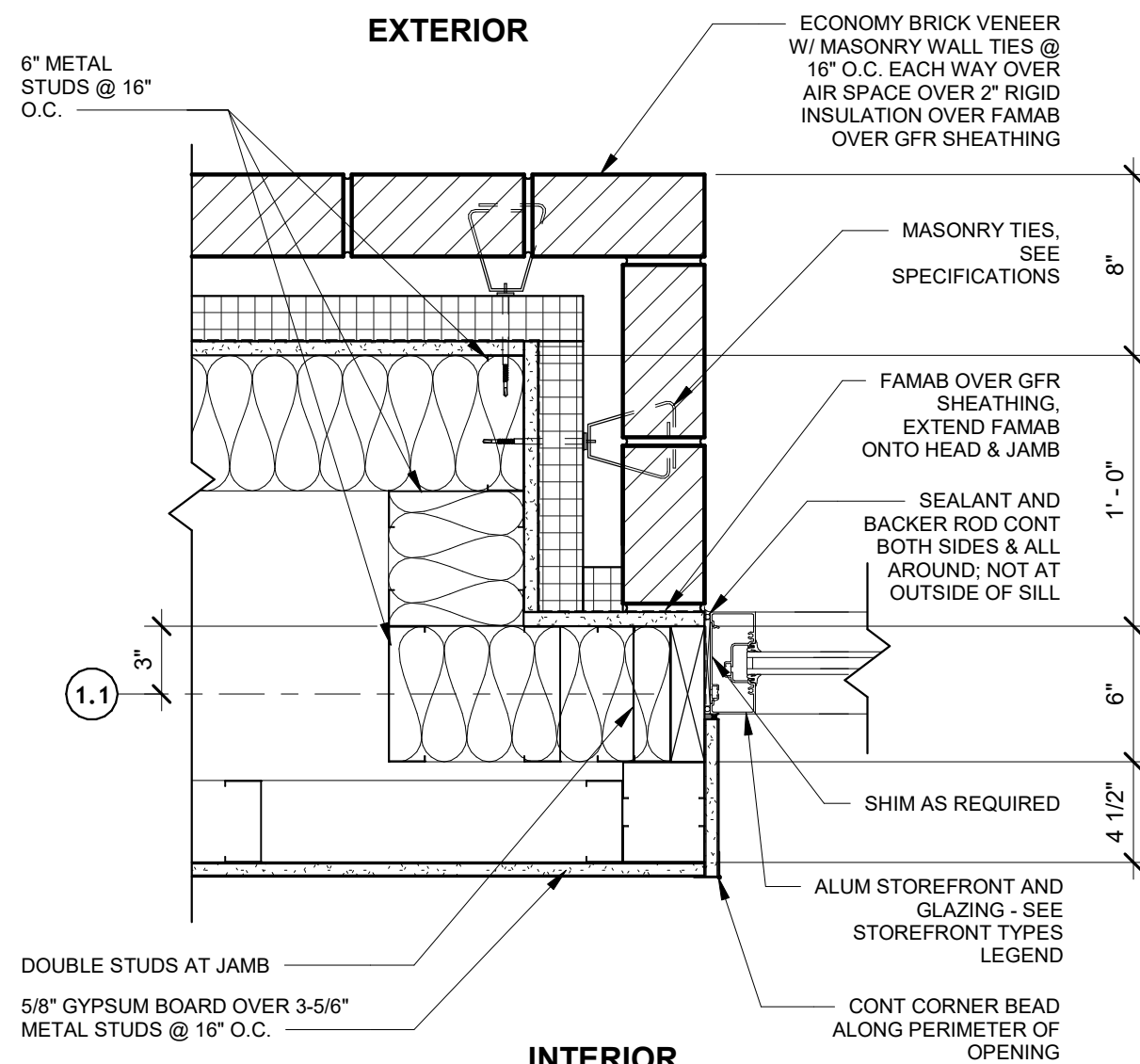
10 STOREFRONT HEAD DETAIL
1 1/2" = 1'-0" BUTT GLAZED STOREFRONT



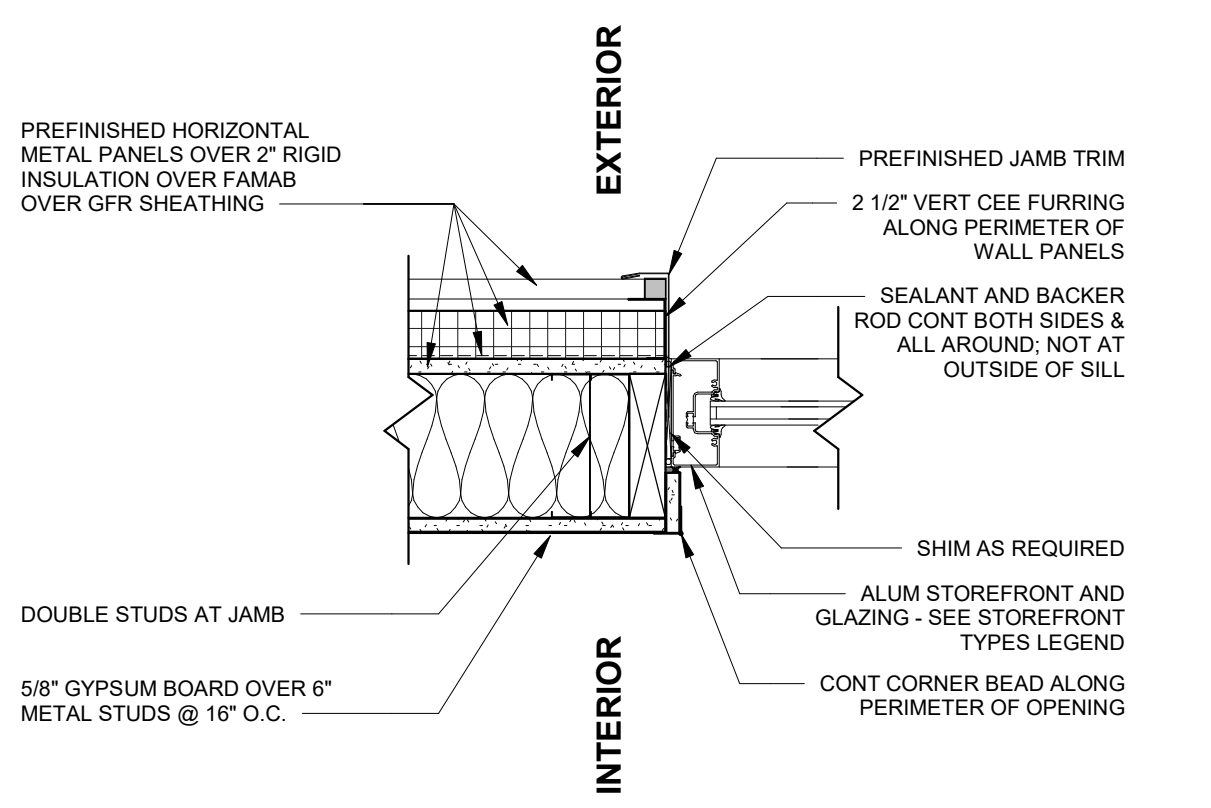
9 STOREFRONT HEAD DETAIL
1 1/2" = 1'-0" ALUMINUM STOREFRONT



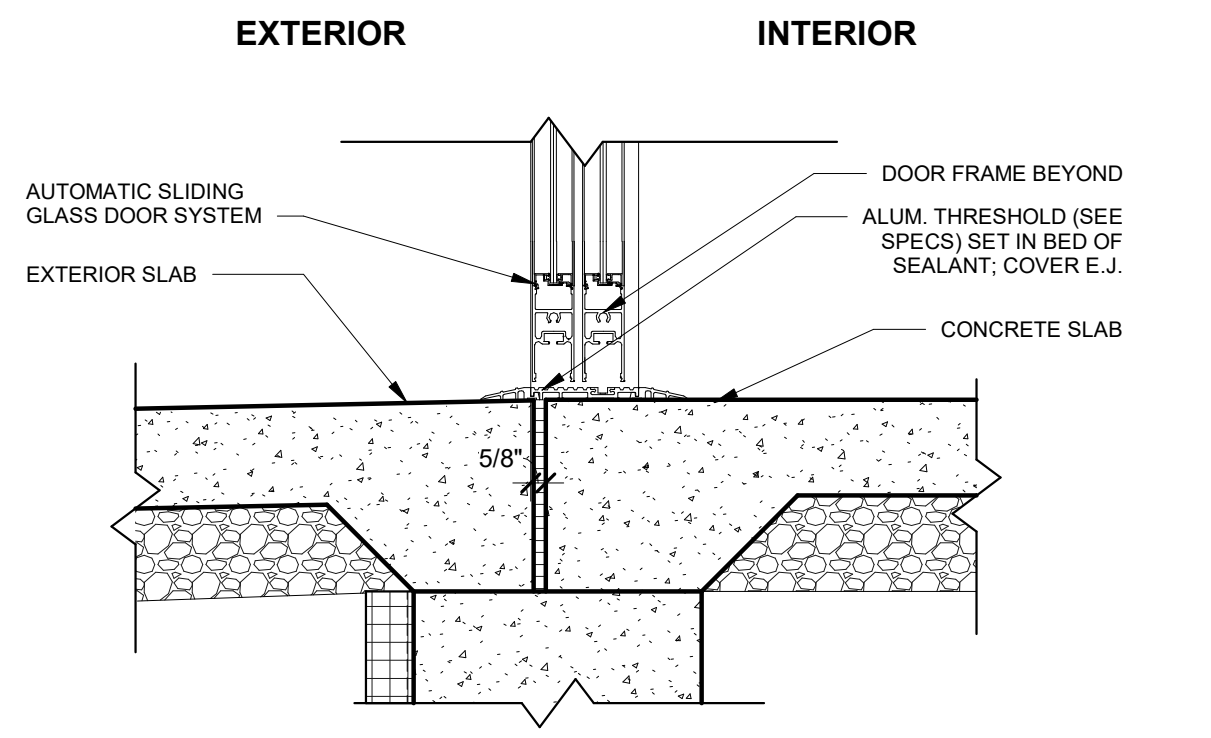
8 STOREFRONT JAMB DETAIL
1 1/2" = 1'-0" ALUMINUM STOREFRONT



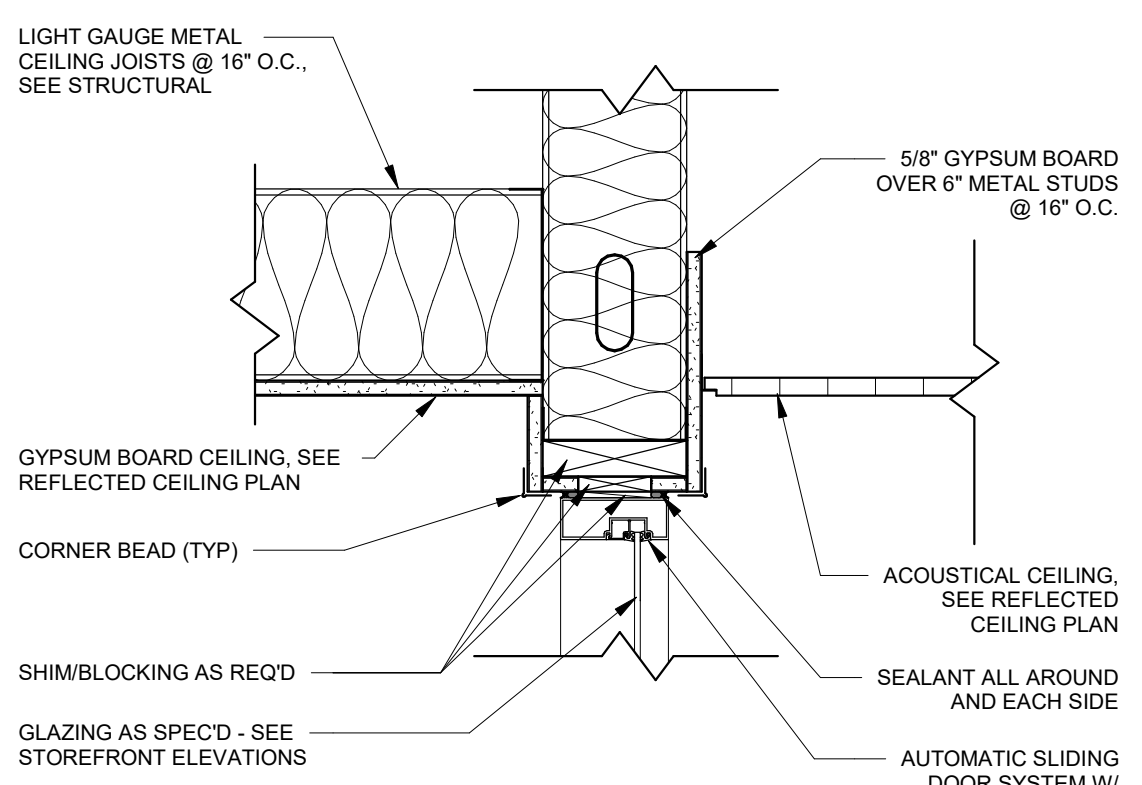
7 STOREFRONT JAMB DETAIL
1 1/2" = 1'-0" ALUMINUM STOREFRONT



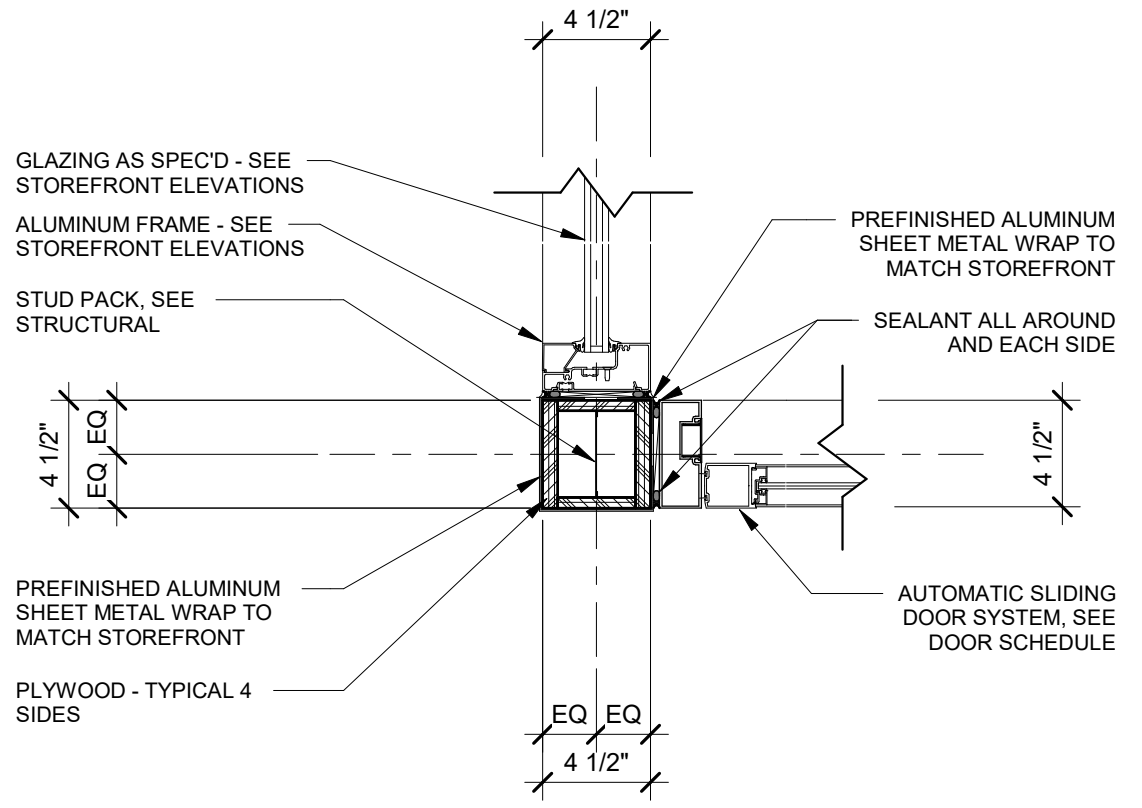
6 STOREFRONT JAMB DETAIL
1 1/2" = 1'-0" ALUMINUM STOREFRONT



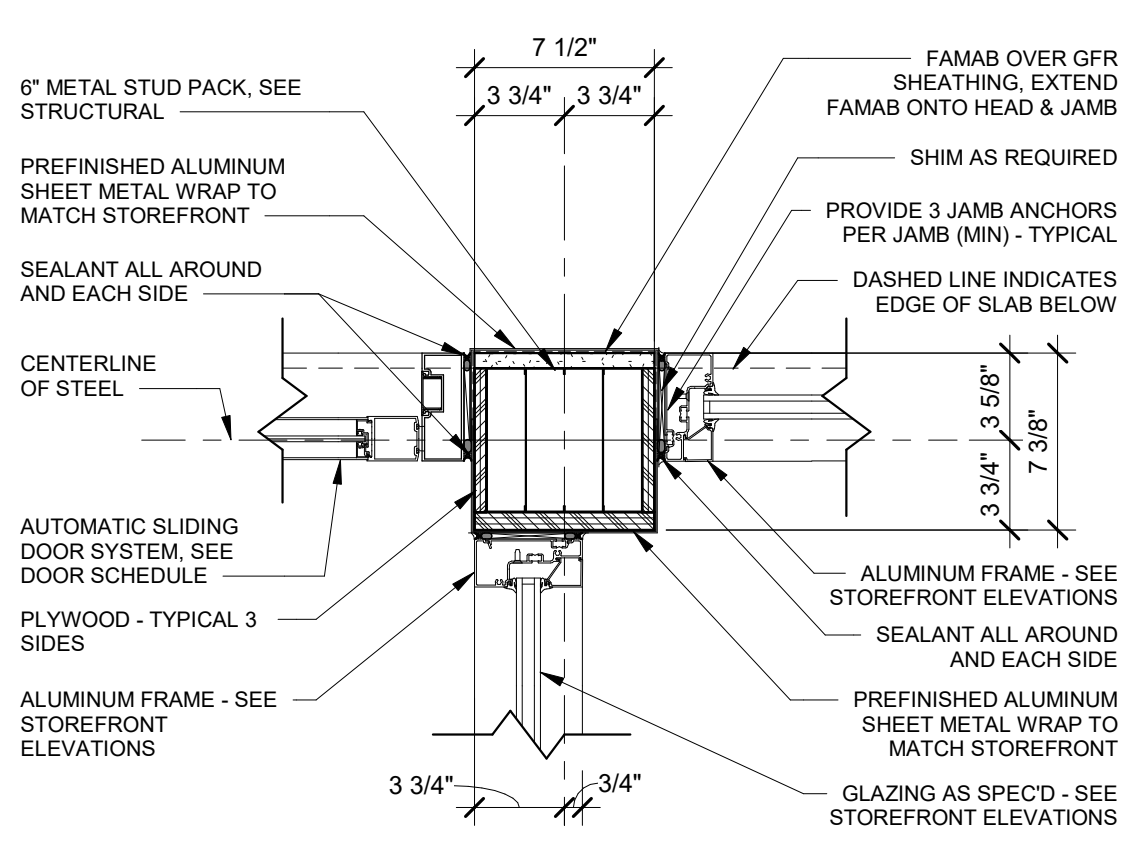
5 STOREFRONT SILL DETAIL
1 1/2" = 1'-0" AUTOMATIC SLIDING GLASS DOOR SYSTEM



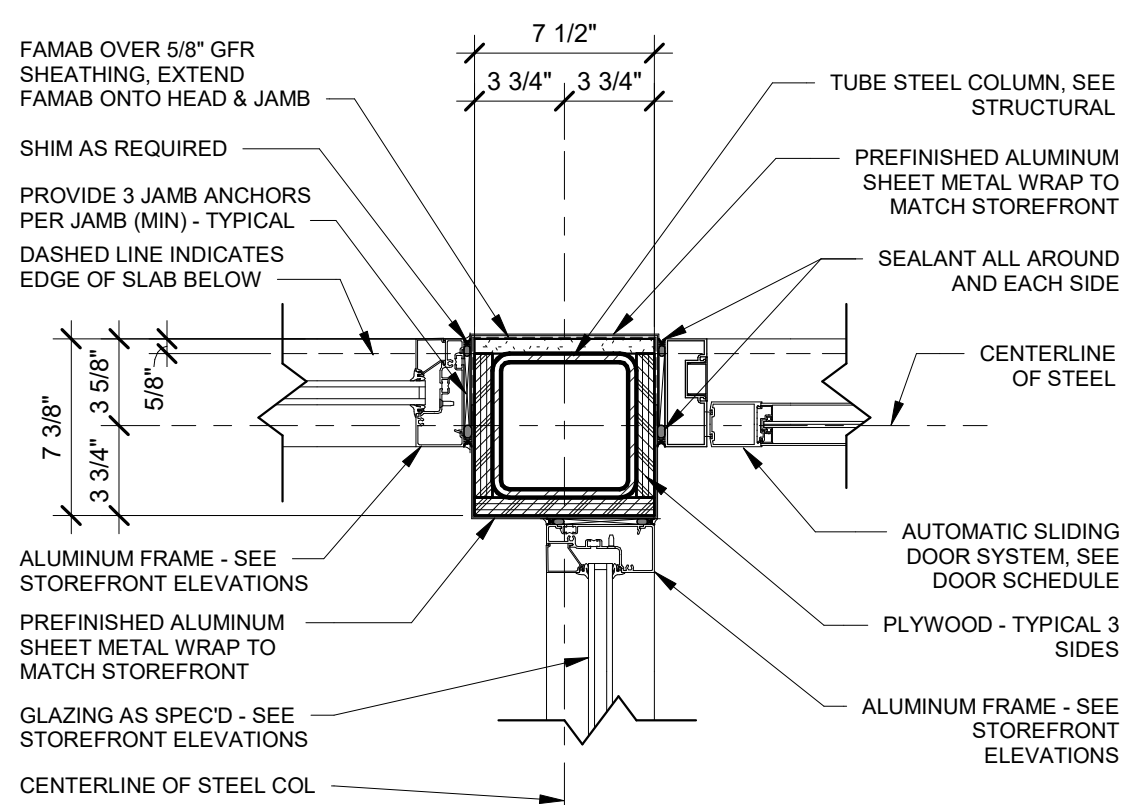
4 STOREFRONT HEAD DETAIL
1 1/2" = 1'-0" ALUMINUM STOREFRONT



3 STOREFRONT JAMB DETAIL
1 1/2" = 1'-0" STUD PACK @ VESTIBULE (INTERIOR)



2 STOREFRONT JAMB DETAIL
1 1/2" = 1'-0" STUD PACK @ VESTIBULE (EXTERIOR)



1 STOREFRONT JAMB DETAIL
1 1/2" = 1'-0" COLUMN WRAP @ VESTIBULE (EXTERIOR)

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JACKSON COUNTY

Architect of Record

12-07-2018

Revision No.	Description	Date

Project No.	Date	Drawn
WP04	12-07-2018	Author

Drawing No.	Author
A403	

HEAD, JAMB AND SILL
DETAILS

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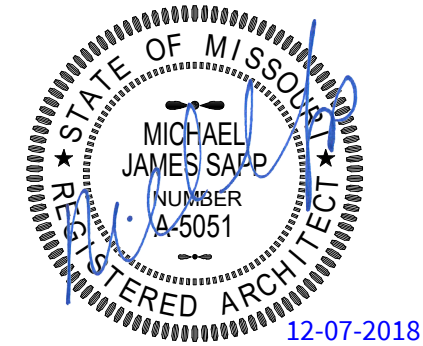
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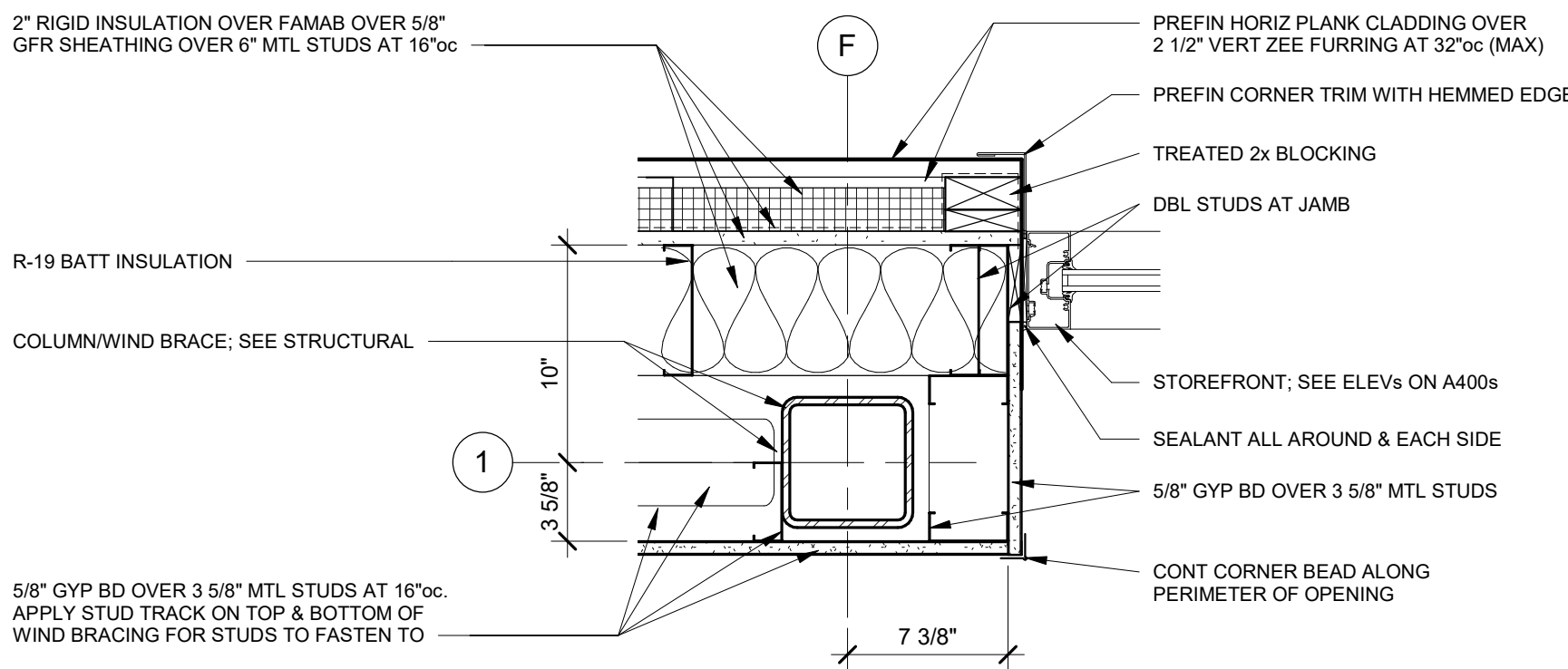
Project No.	Date	Drawn
WP04	12-07-2018	Author

Drawing No.

A404

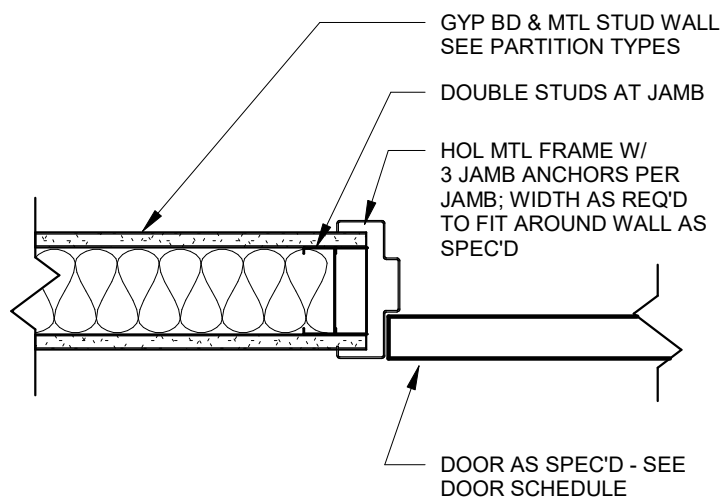
HEAD, JAMB AND SILL
DETAILS

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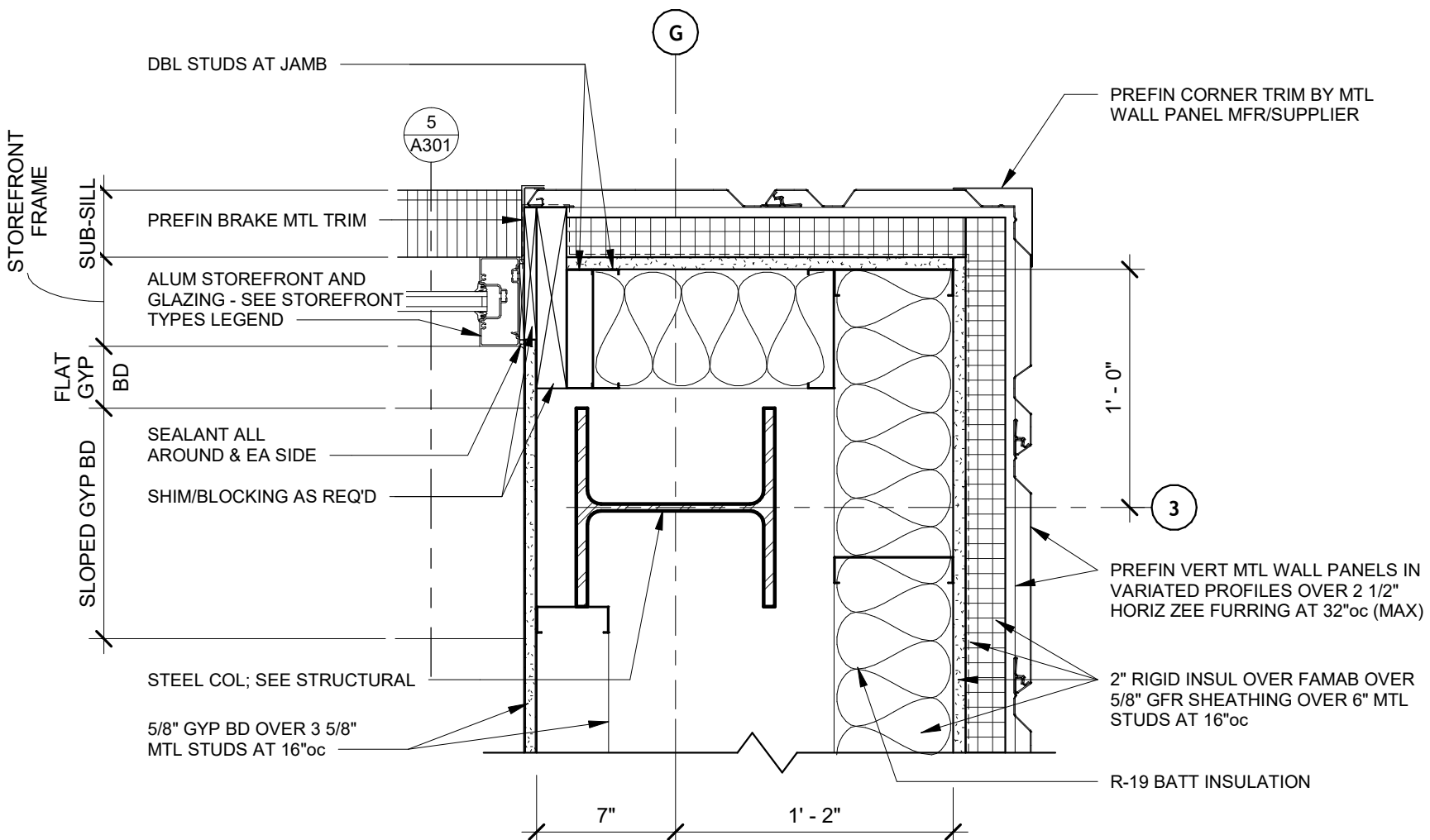
8 STOREFRONT JAMB DETAIL

1 1/2" = 1'-0"



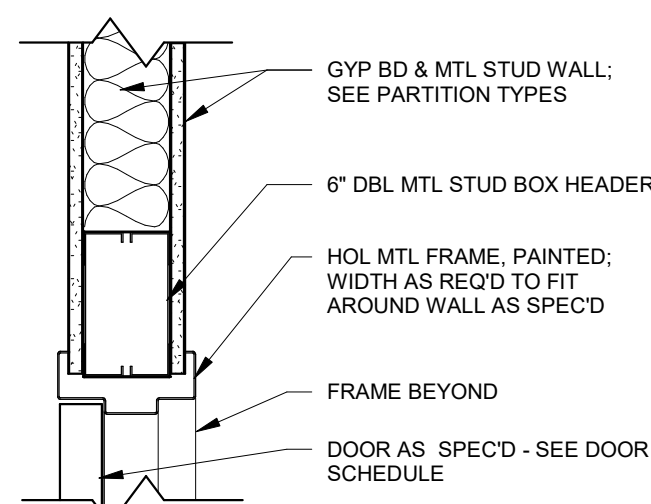
4 DOOR JAMB DETAIL

1 1/2" = 1'-0" HOLLOW METAL



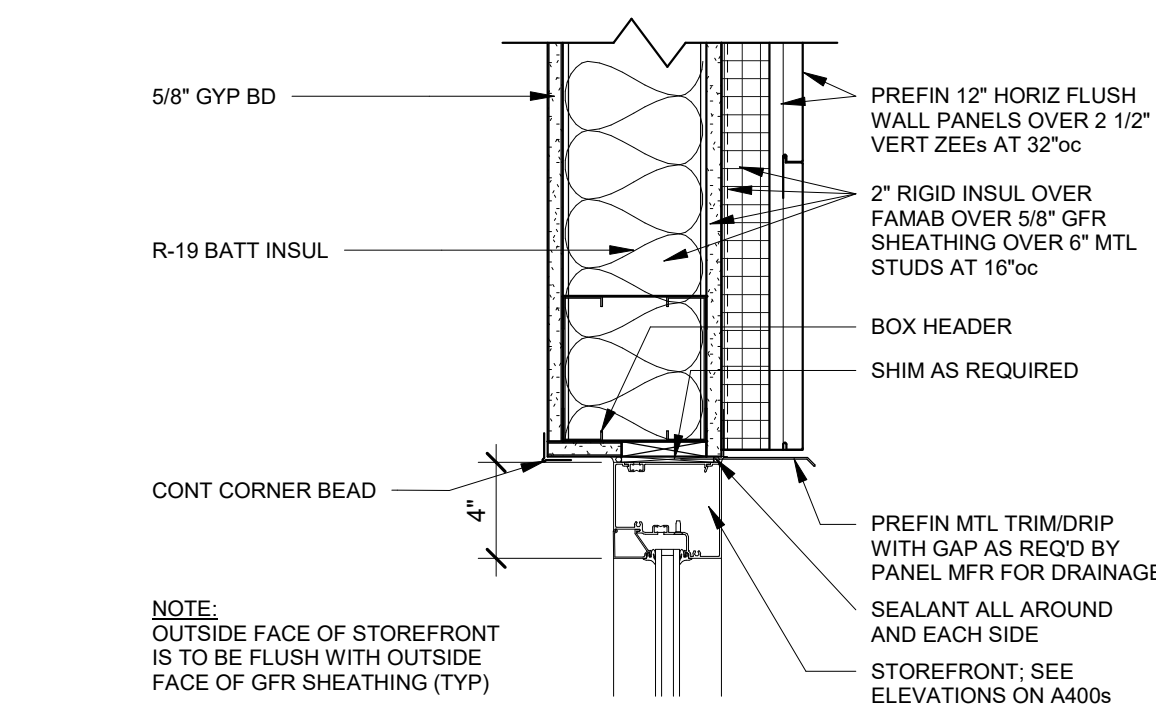
7 STOREFRONT JAMB DETAIL

1 1/2" = 1'-0"



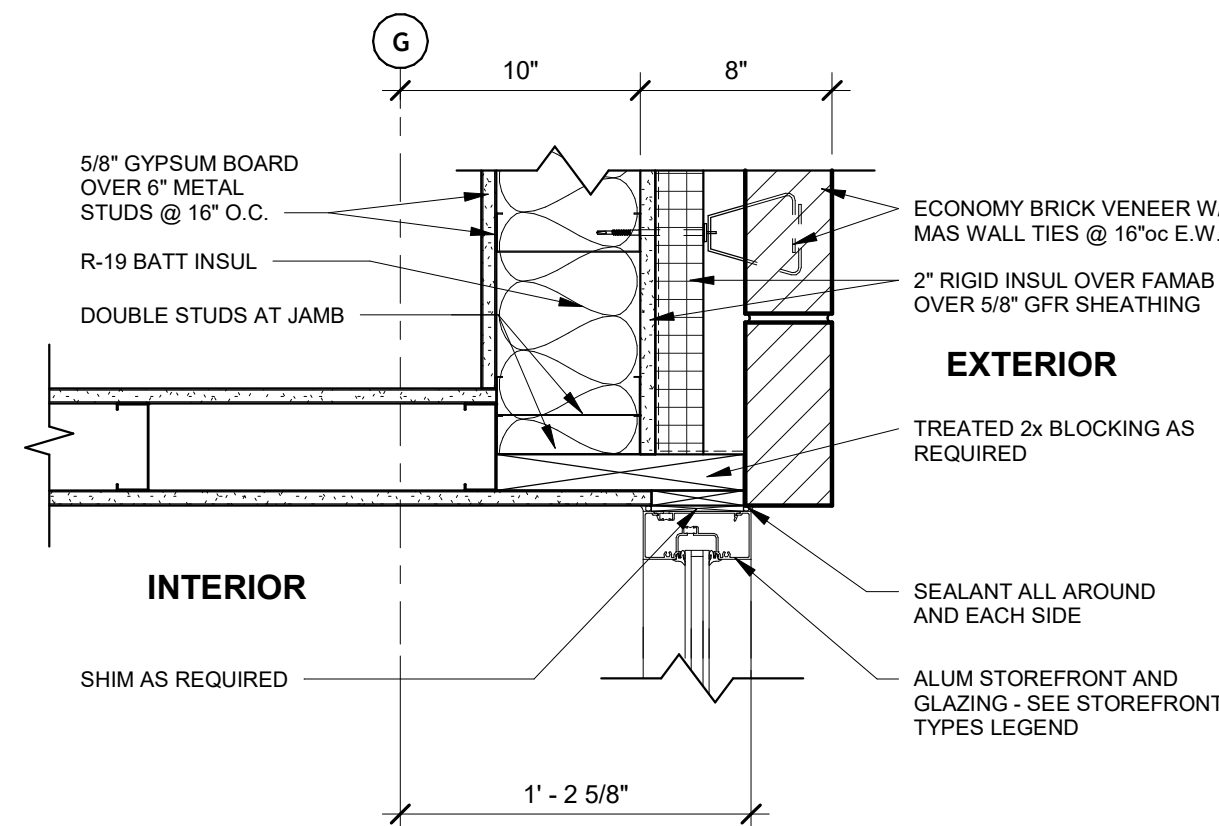
3 DOOR HEAD DETAIL

1 1/2" = 1'-0" HOLLOW METAL



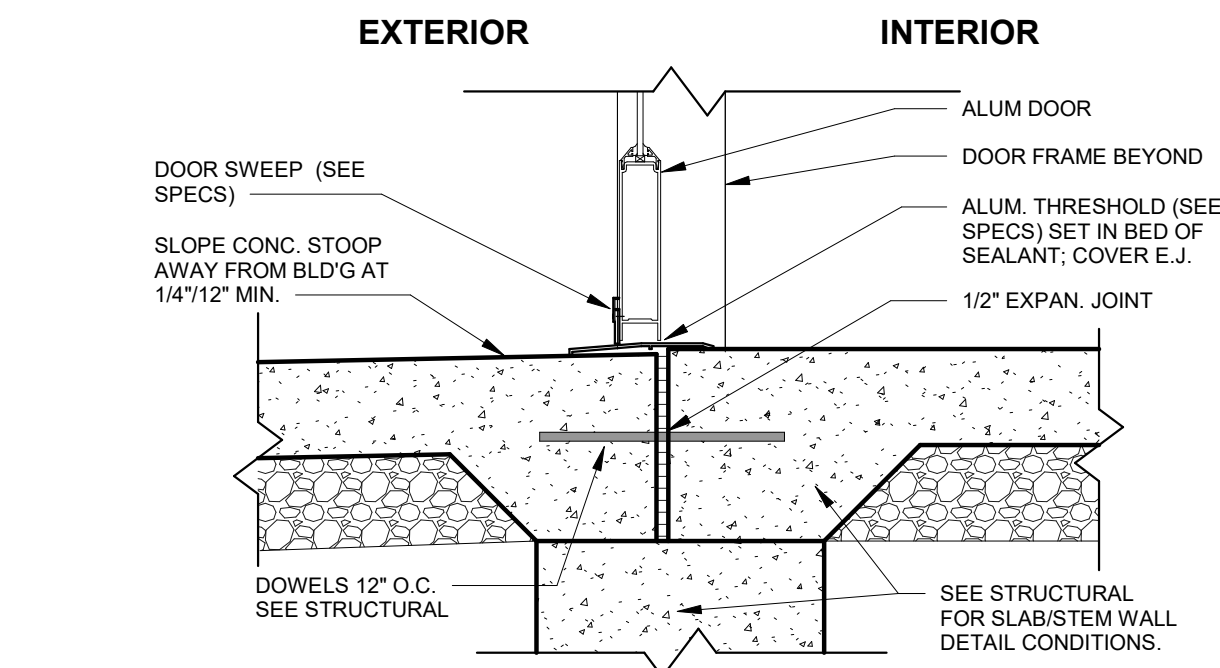
6 STOREFRONT HEAD DETAIL

1 1/2" = 1'-0"



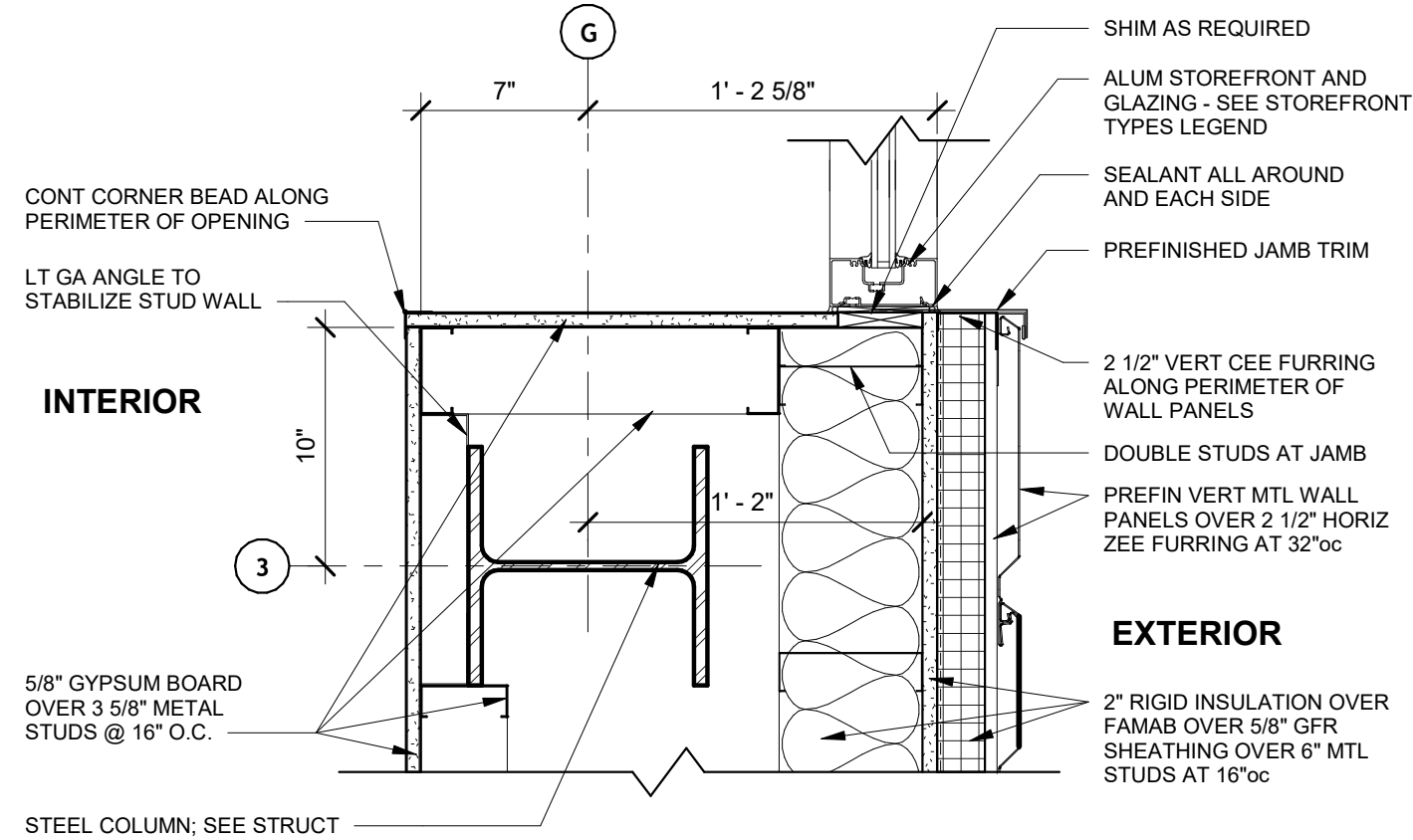
2 STOREFRONT JAMB DETAIL

1 1/2" = 1'-0" ALUMINUM STOREFRONT



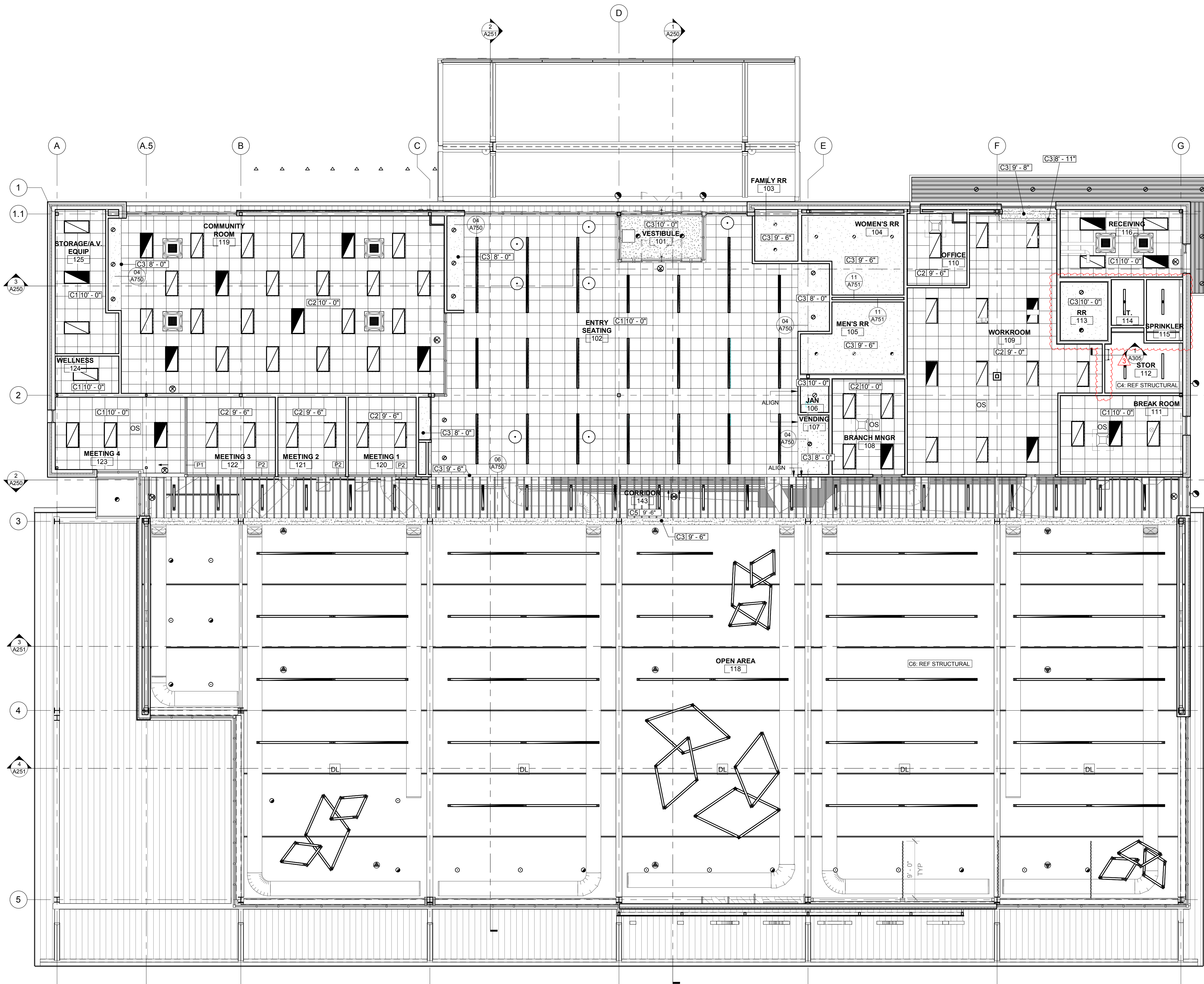
5 DOOR SILL DETAIL

1 1/2" = 1'-0" ALUMINUM STOREFRONT



1 STOREFRONT JAMB DETAIL

1 1/2" = 1'-0" ALUMINUM STOREFRONT



1 REFLECTED CEILING PLAN
1/8" = 1'-0"

GENERAL NOTES

- COORDINATE REFLECTED CEILING PLAN WITH LIGHTING AND MECHANICAL PLANS FOR LIGHT FIXTURE PLACEMENT AND DIFFUSER PLACEMENT. IF DISCREPANCIES OCCUR CONTACT ARCHITECT FOR RESOLUTION. REFER TO FIRE PROTECTION DRAWINGS FOR SPRINKLER HEAD LOCATIONS. SPRINKLER HEADS SHALL BE LOCATED A MINIMUM OF 6" FROM CEILING GRID. COORDINATE LOCATIONS WITH LIGHTS AND DIFFUSERS. LIGHT FIXTURE LOCATION SHALL PREVAIL.
- DRAWINGS ARE NOT TO BE SCALED. DIMENSIONAL DATA SHALL BE OBTAINED FROM WRITTEN INFORMATION ONLY. VERIFY ALL DIMENSIONS BEFORE PROCEEDING. ANY DIMENSIONAL DEVIATION FROM THAT SHOWN ON THE DRAWINGS, WHICH MAY AFFECT INTENT OF DESIGN OR PROPER INCORPORATION OF ELEMENTS, SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION PROMPTLY AND RESOLUTION OBTAINED BEFORE PROCEEDING.
- ALL DIMENSIONS INDICATED IN CONTRACT DOCUMENTS ARE FROM FACE OF STUD TO FACE OF STUD FOR INTERIOR PARTITIONS, FACE OF EXISTING STRUCTURE OR FINISH, FACE OF CONCRETE OR BLOCK, OR TO STRUCTURAL LINE, EXCEPT AS NOTED OTHERWISE. EXTERIOR DIMENSIONS ARE TO FACE OF BRICK OR FACE OF EIFS. DIMENSIONS OF EXISTING STRUCTURE, ETC. ARE ± AND SHOULD BE FIELD VERIFIED PRIOR TO COMMENCEMENT OF WORK AND ARCHITECT NOTIFIED OF ANY DISCREPANCIES.
- GENERAL CONTRACTOR SHALL COORDINATE ALL MECHANICAL, ELECTRICAL & PLUMBING WORK AND PROVIDE ALL NECESSARY CONSTRUCTION TO FACILITATE SAID WORK INCLUDING, BUT NOT LIMITED TO ROUGH OPENINGS, EQUIPMENT SUPPORTS, BACKING AND COORDINATION OF FINISH WORK, WHETHER OR NOT SPECIFICALLY INDICATED ON CONTRACT DOCUMENTS.
- GENERAL CONTRACTOR SHALL COORDINATE DUCTWORK WITH JOIST X-BRACING OR HORIZONTAL BRIDGING.
- PAINT ALL EXPOSED STEEL, BAR JOISTS, ACOUSTICAL METAL DECK, DUCTS, FIRE PROTECTION PIPING, HANGERS, CONDUIT, EXPOSED LOW VOLTAGE CABLING AND ANY OTHER EXPOSED SURFACES PER SPEC.

KEYNOTES

1. →

CEILING TYPES

- C1: 2x2 SUSPENDED ACOUSTICAL TILE CEILING (TEGULAR EDGE) - ARMSTRONG OPTIMA PANELS 15/16 SQUARE TEGULAR 3250 PRELUDE XL GRID
- C2: 2X2 SUSPENDED ACOUSTICAL TILE CEILING (TEGULAR EDGE) - ARMSTRONG ULTIMA PANELS 15/16 BEVELED TEGULAR 1951 PRELUDE XL GRID
- C3: PAINTED GYP BD HEADER, SOFFIT, BULKHEAD, OR CEILING
- C4: NO CEILING - EXPOSED STRUCTURE PAINTED BLACK
- C5: WOOD BAFFLE CEILING - ACGI FC EXPORT HICKORY, DOOGUE VENEERS LOG #1103317, WB1-1700-M, 77" W X 7' H X 2" D INDEPENDENTLY SUSPENDED WITH LIGHT WEIGHT CORE
- C6: NO CEILING - EXPOSED ACOUSTIC DECK PAINTED PT1
- C7: 2X2 SUSPENDED ACOUSTICAL TILE CEILING (TEGULAR EDGE) - ARMSTRONG OPTIMA HEALTH ZONE 15/16 SQUARE TEGULAR 3214 PRELUDE XL GRID

ROOM NAME	ROOM NUMBER	CEILING HEIGHT	CEILING FINISH
101	101	10'-0"	10'-0"

NOTE:
SEE BUILDING SECTIONS AND INTERIOR ELEVATIONS

REFLECTED CEILING LEGEND

- 2'-0" x 4'-0" RECESSED LIGHT FIXTURE (SEE ELECTRICAL PLANS)
- 2'-0" x 2'-0" RECESSED LIGHT FIXTURE (SEE ELECTRICAL PLANS)
- RECESSED CAN LIGHT FIXTURE (SEE ELECTRICAL PLANS)
- PENDANT LIGHT FIXTURE (SEE ELECTRICAL PLANS)
- PENDANT LIGHT FIXTURE (SEE ELECTRICAL PLANS)
- CYLINDER PENDANT LIGHT FIXTURE (SEE ELECTRICAL PLANS)
- DECORATIVE PENDANT LIGHT FIXTURE (SEE ELECTRICAL PLANS)
- DECORATIVE LINEAR PENDANT FIXTURES (SEE ELECTRICAL PLANS)
- RECESSED LINEAR LIGHT FIXTURE (SEE ELECTRICAL PLANS)
- DAYLIGHT SENSOR (SEE ELECTRICAL PLANS)
- OCCUPANCY SENSOR (SEE ELECTRICAL PLANS)

**SAPP
DESIGN
ARCHITECTS**

3750 S. Fremont Ave.
Springfield, MO 65804 417.877.9600

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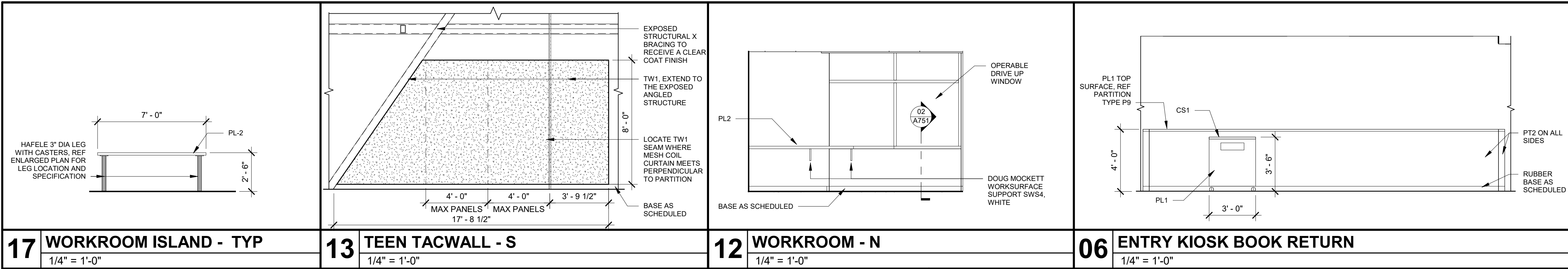
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Architect of Record
STATE OF MISSOURI
MICHAEL JOHN HEULE
REGISTERED ARCHITECT
A-5451
2-13-2019

Revision No.	Description	Date
1	ASI001	01-14-2019
3	ASI003	02-13-2019

Project No.	Date	Drawn
WP04	12-07-2018	TLK

Drawing No.
A600
REFLECTED CEILING PLAN



GENERAL NOTES

- ALL MILLWORK TO CONFORM TO AWS STANDARDS, U.N.O.
- REFER TO AWS MILLWORK STANDARDS FOR DESIGN DESIGNATIONS
- ALL COUNTER TOPS SHALL BE SOLID SURFACE, U.N.O.
- COLOR OF MELAMINE FINISH FOR PARTICLE BOARD & HARDBOARD SHALL BE AS SELECTED BY ARCHITECT.
- ALL INTERIOR SHELF BRACKETS & CLIPS @ CABINETS SHALL BE K&V OR EQUAL. PROVIDE 4 CLIPS PER SHELF.
- ALL DOOR HINGES TO BE OF THE FRAMELESS CONCEALED HINGES, 170 DEGREE OF OPENING, UNLESS NOTED OTHERWISE.
- PROVIDE NECESSARY BLOCKING IN ALL WALLS TO RECEIVE CASEWORK & SHELVING.
- ALL FINISHED DIMENSIONS TO BE FIELD VERIFIED PRIOR TO FABRICATION OF CASEWORK.
- CUT & SCRIBE CABINETS AND/OR COUNTERS TO FIT AROUND WALL PILASTERS, OFFSETS, COLUMNS AND OTHER IRREGULARITIES.
- ALL DRAWERS SHALL HAVE K&V OR EQUAL HEAVY DUTY DRAWER SLIDES & HARDWARE. PROVIDE DRAWER FRONTS TO MATCH DOORS @ CABINETS
- ALL CABINET HARDWARE SHALL BE K&V OR EQUAL & SHALL BE FURNISHED BY CASEWORK CONTRACTOR. DOOR & DRAWER PULLS TO BE 'MOCKETT DP3A OR EQUAL' PULLS IN US26D FINISH UNLESS NOTED OTHERWISE.
- CABINET ELEVATIONS & SECTIONS SHOW DESIGN INTENT OF ARCHITECT. CASEWORK CONTRACTOR IS RESPONSIBLE FOR TYPICAL CABINET BRACING EVEN IF NOT SPECIFICALLY SHOWN OR NOTED ON THE DRAWINGS.
- FINISH ALL EXPOSED END PANELS OF CASEWORK TO MATCH ADJACENT CASEWORK FACES UNLESS NOTED OTHERWISE.
- ALL DIMENSIONS @ CASEWORK ARE TO FACE OF FINISHED SURFACE UNLESS NOTED OTHERWISE.
- SCRIBE TO WALLS PROVIDE SEALANT AT JOINT.
- PROVIDE FILLER PANELS, CLAD IN FINISH AS NOTED IN ELEVATIONS, WHERE EQUIPMENT IS LOCATED WITHIN CABINET UNITS

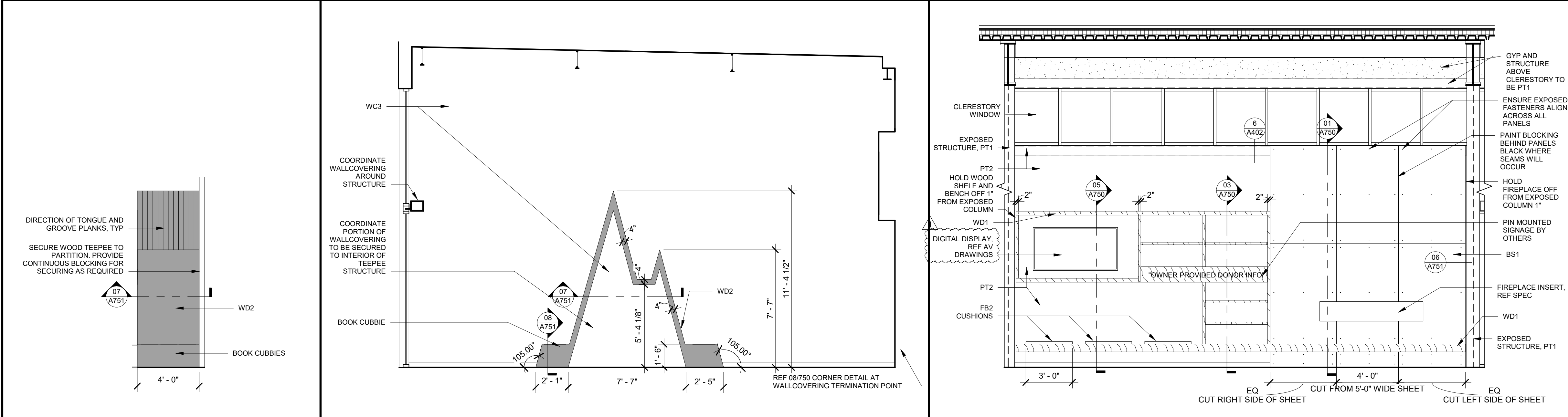
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16CHILDREN'S DISPLAY - S

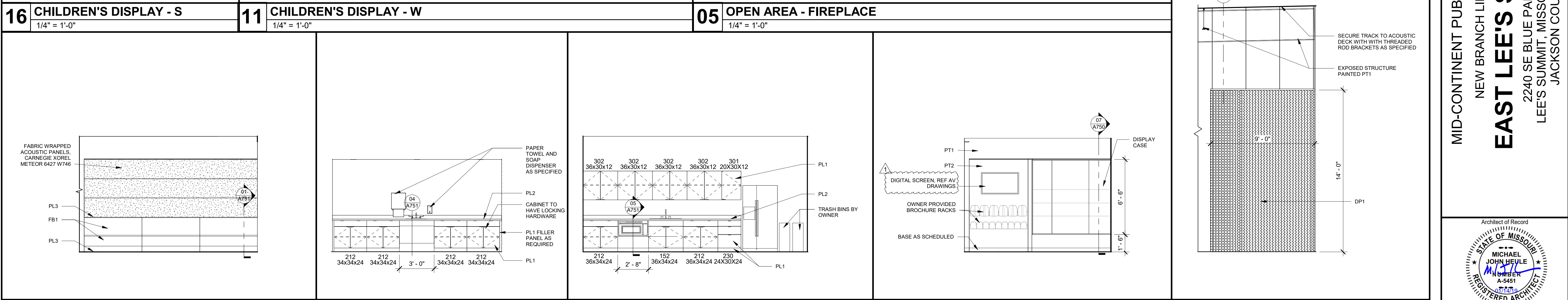
1/4" = 1'-0"

11CHILDREN'S DISPLAY - W

1/4" = 1'-0"

05OPEN AREA - FIREPLACE

1/4" = 1'-0"



15ENTRY SEATING - BOOTH

1/4" = 1'-0"

10COMMUNITY RM - CASEWORK

1/4" = 1'-0"

08BREAK ROOM - S

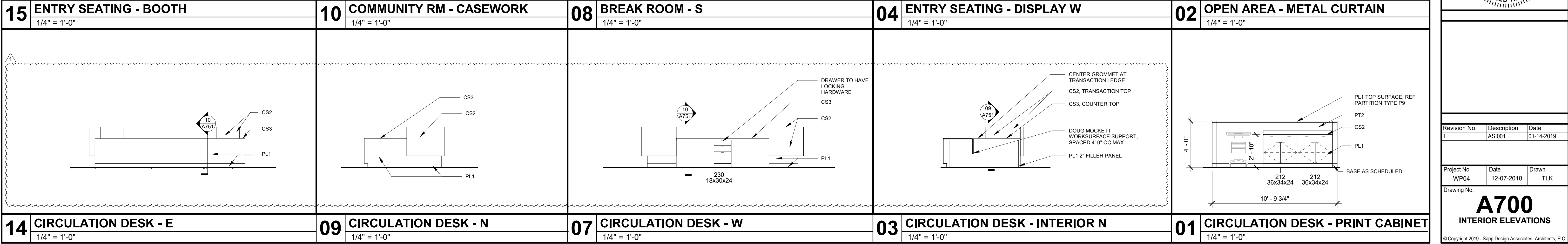
1/4" = 1'-0"

04ENTRY SEATING - DISPLAY W

1/4" = 1'-0"

02OPEN AREA - METAL CURTAIN

1/4" = 1'-0"



14CIRCULATION DESK - E

1/4" = 1'-0"

09CIRCULATION DESK - N

1/4" = 1'-0"

07CIRCULATION DESK - W

1/4" = 1'-0"

03CIRCULATION DESK - INTERIOR N

1/4" = 1'-0"

01CIRCULATION DESK - PRINT CABINET

1/4" = 1'-0"

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NUMBER A-5451
REGISTERED ARCHITECT

Revision No. Description Date

1 ASI001 01-14-2019

Project No. Date Drawn

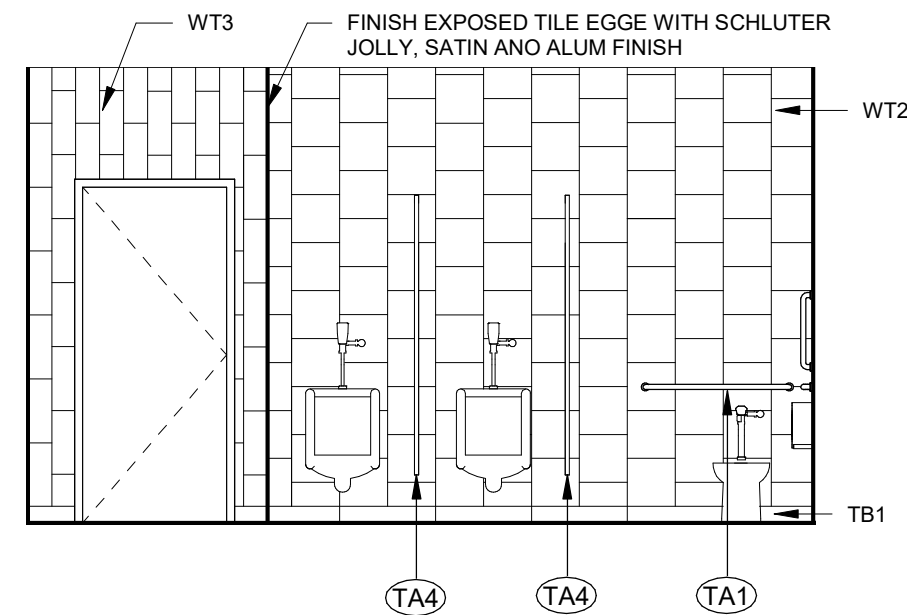
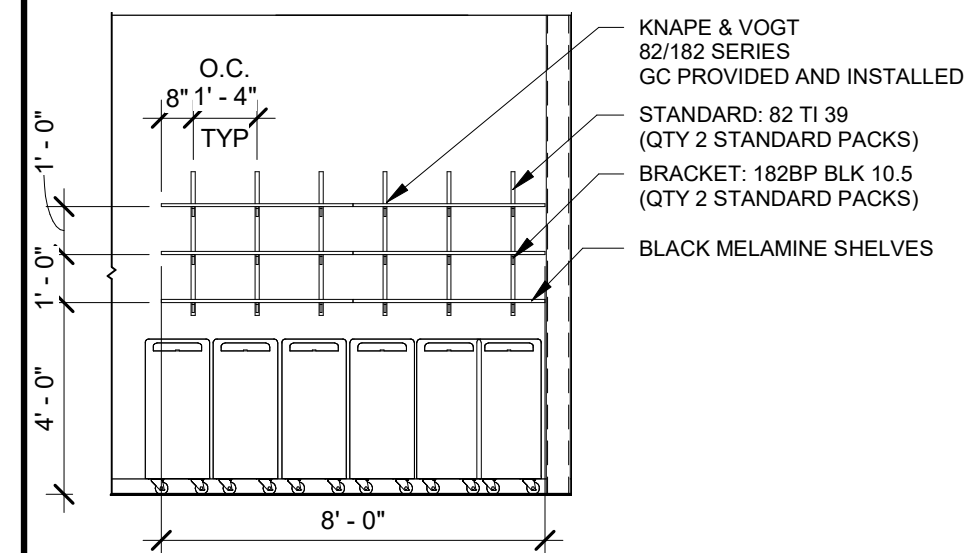
WP04 12-07-2018 TLK

Drawing No.

A700

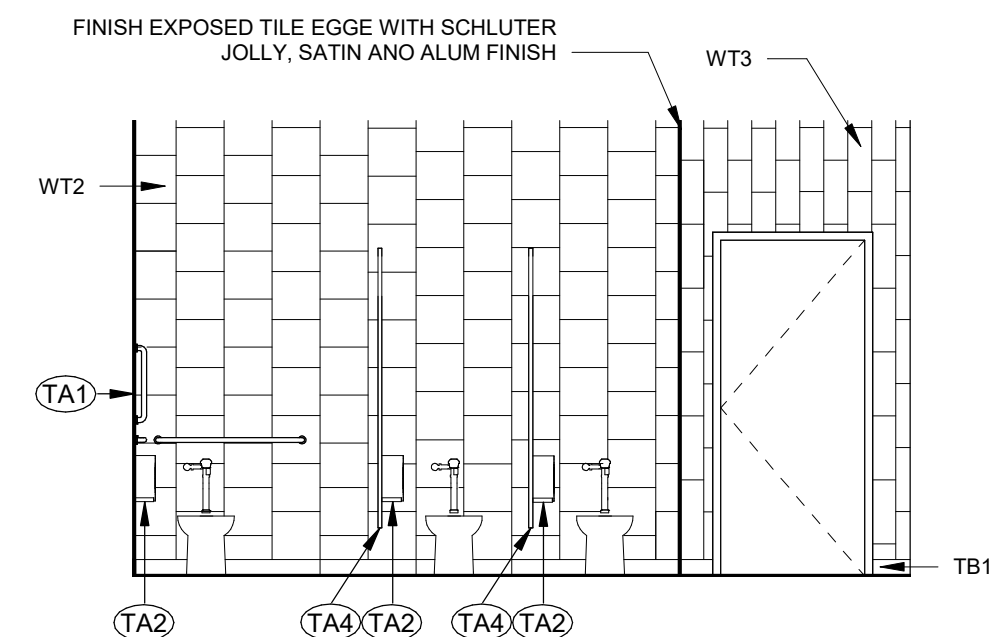
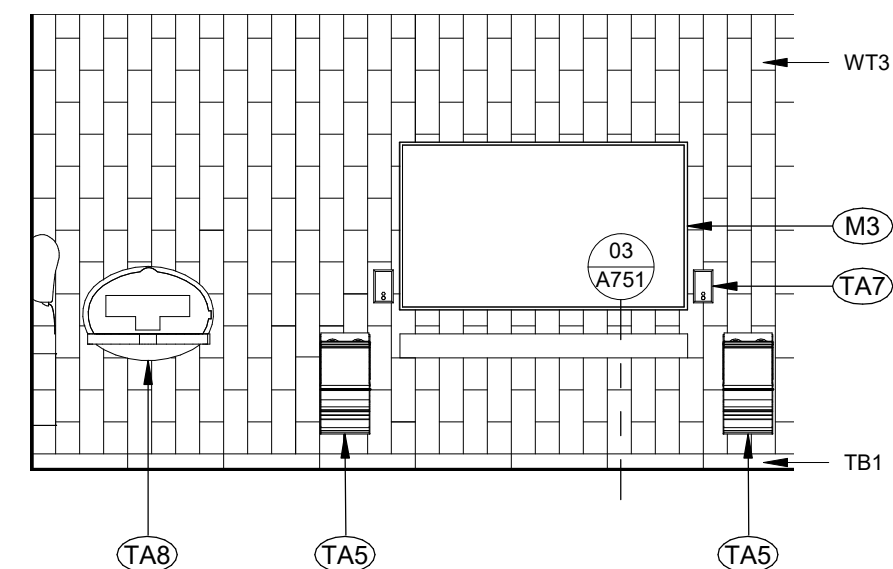
INTERIOR ELEVATIONS

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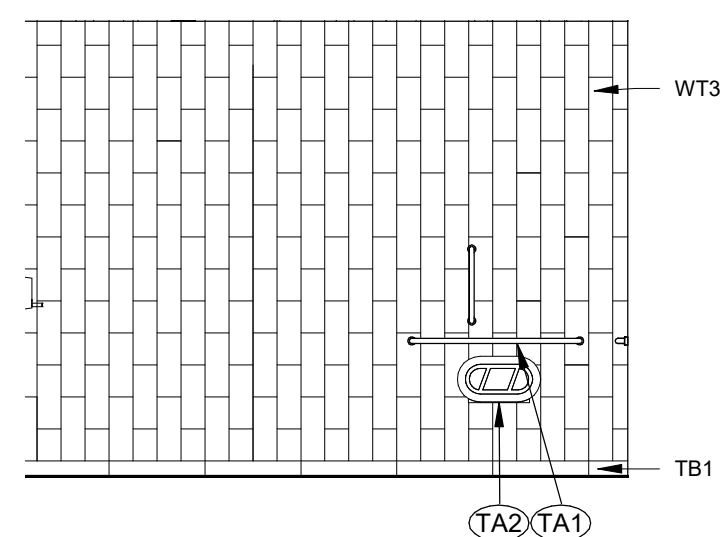


10	116 N RECEIVING
	1/4" = 1'-0"

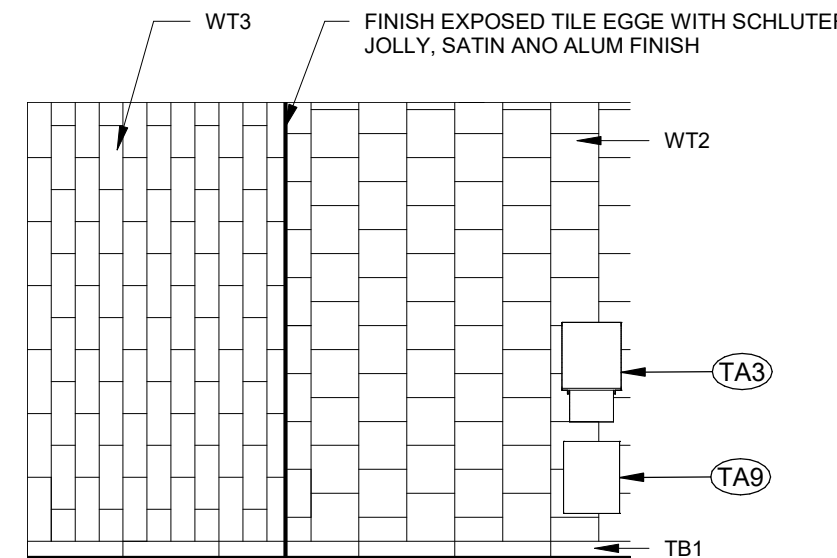
05	MENS RR - N
	1/4" = 1'-0"



09	WOMEN'S RR - N
	1/4" = 1'-0"

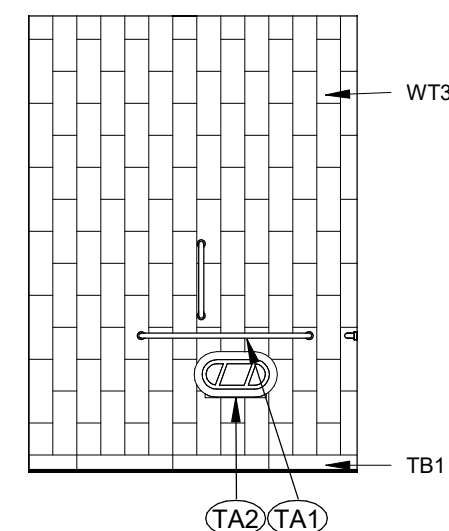
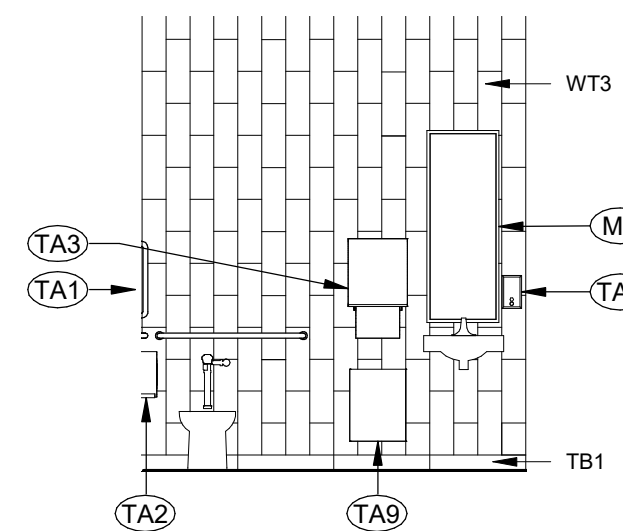


04	WOMEN'S RR - S
	1/4" = 1'-0"



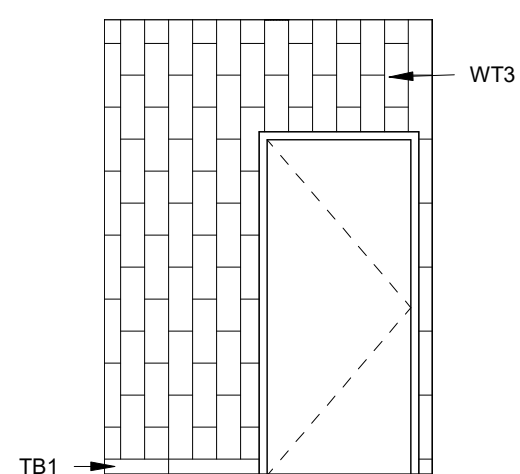
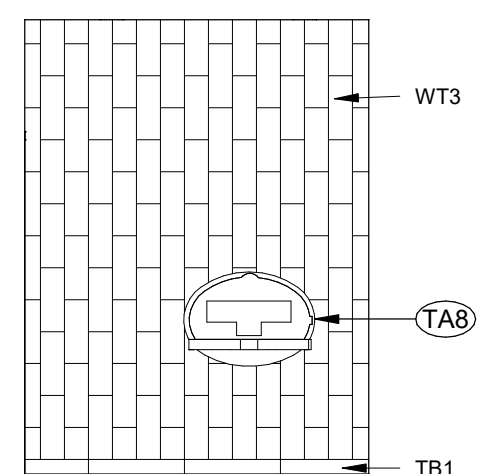
08	WOMEN'S RR - E
	1/4" = 1'-0"

03	WOMEN'S RR - W
	1/4" = 1'-0"



07	SINGLE RR - E
	1/4" = 1'-0"

02	SINGLE RR - N
	1/4" = 1'-0"



06	SINGLE RR - W
	1/4" = 1'-0"

01	SINGLE RR - S
	1/4" = 1'-0"

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ARCHITECTS**

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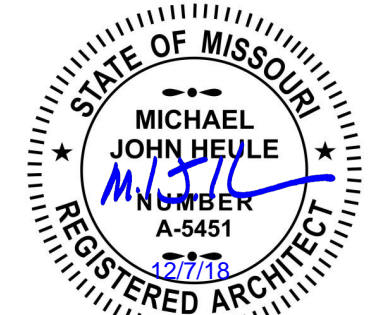
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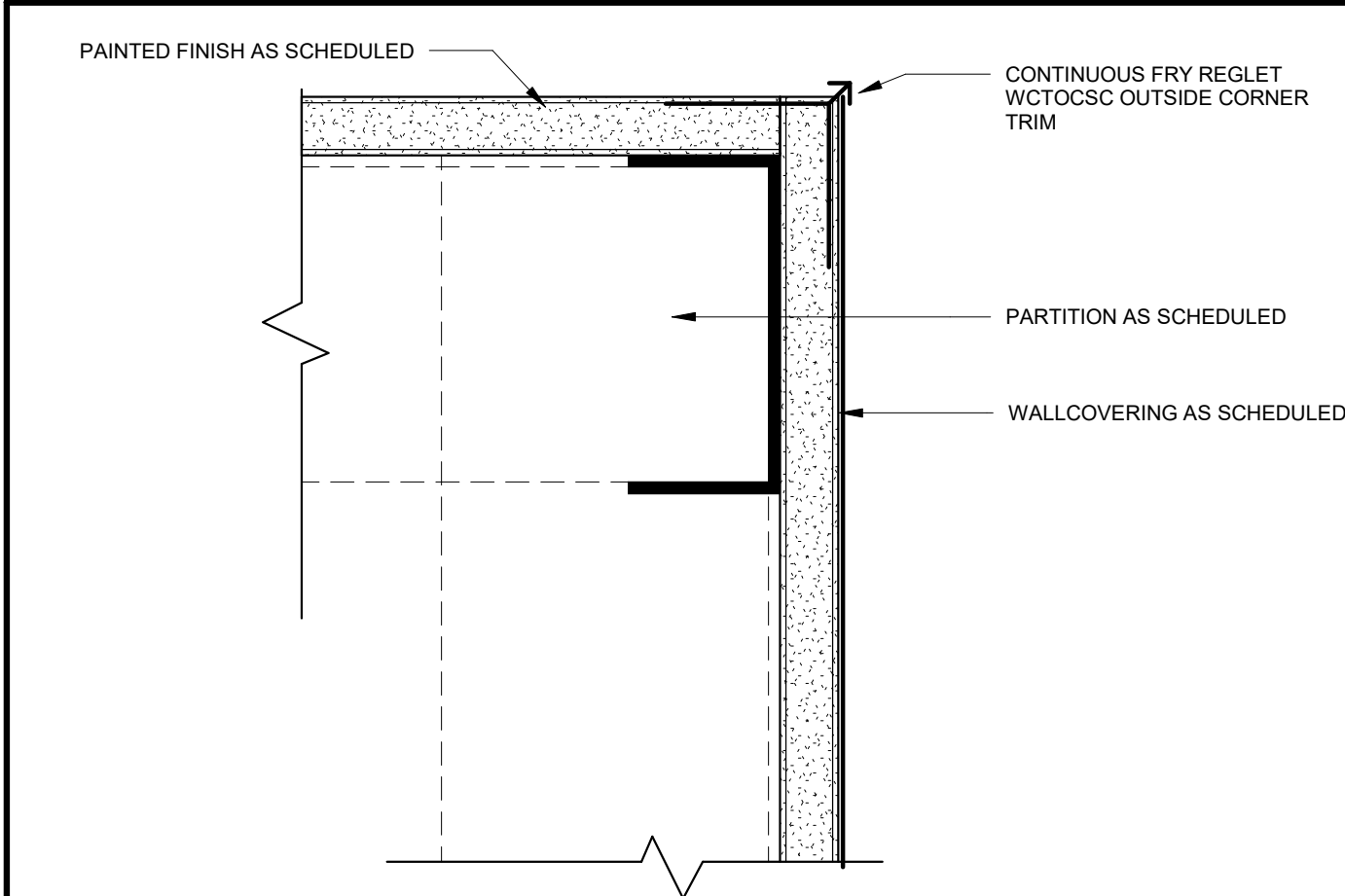
Project No.	Date	Drawn
WP04	12-07-2018	TLK

Drawing No.

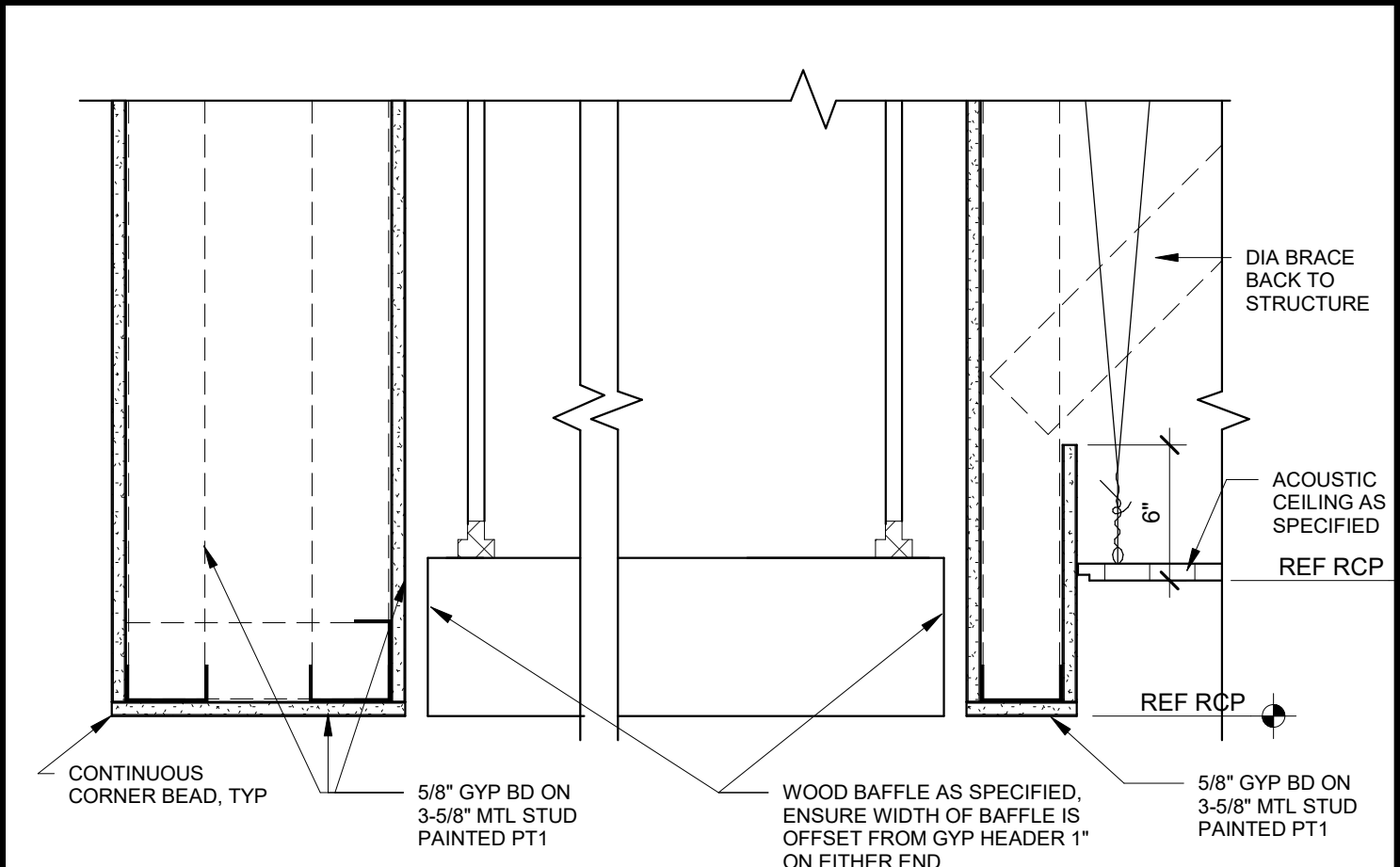
A701

ERIOR ELEVATIONS

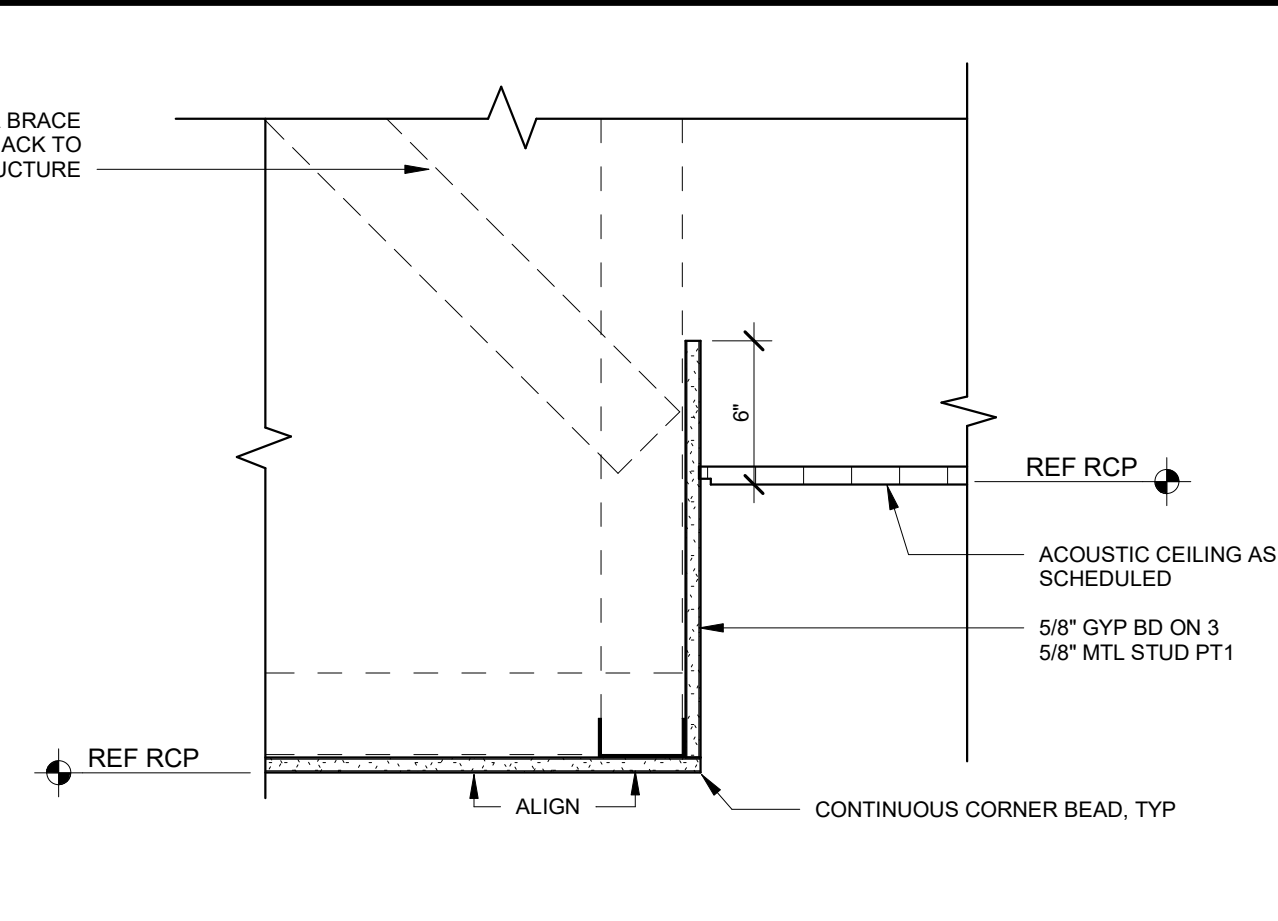
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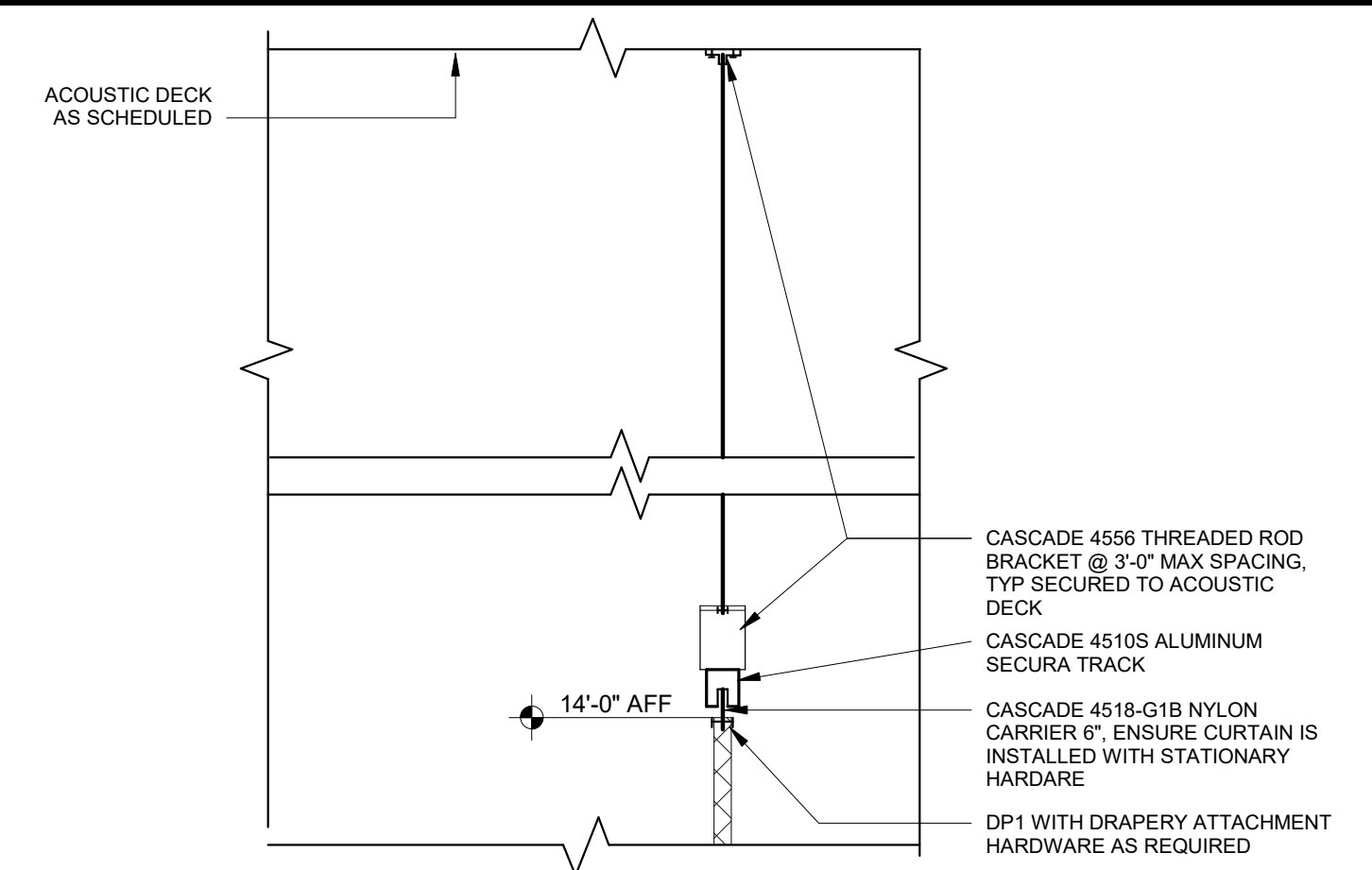
08 CORNER DETAIL @ WALLCOVERING
6" = 1'-0"



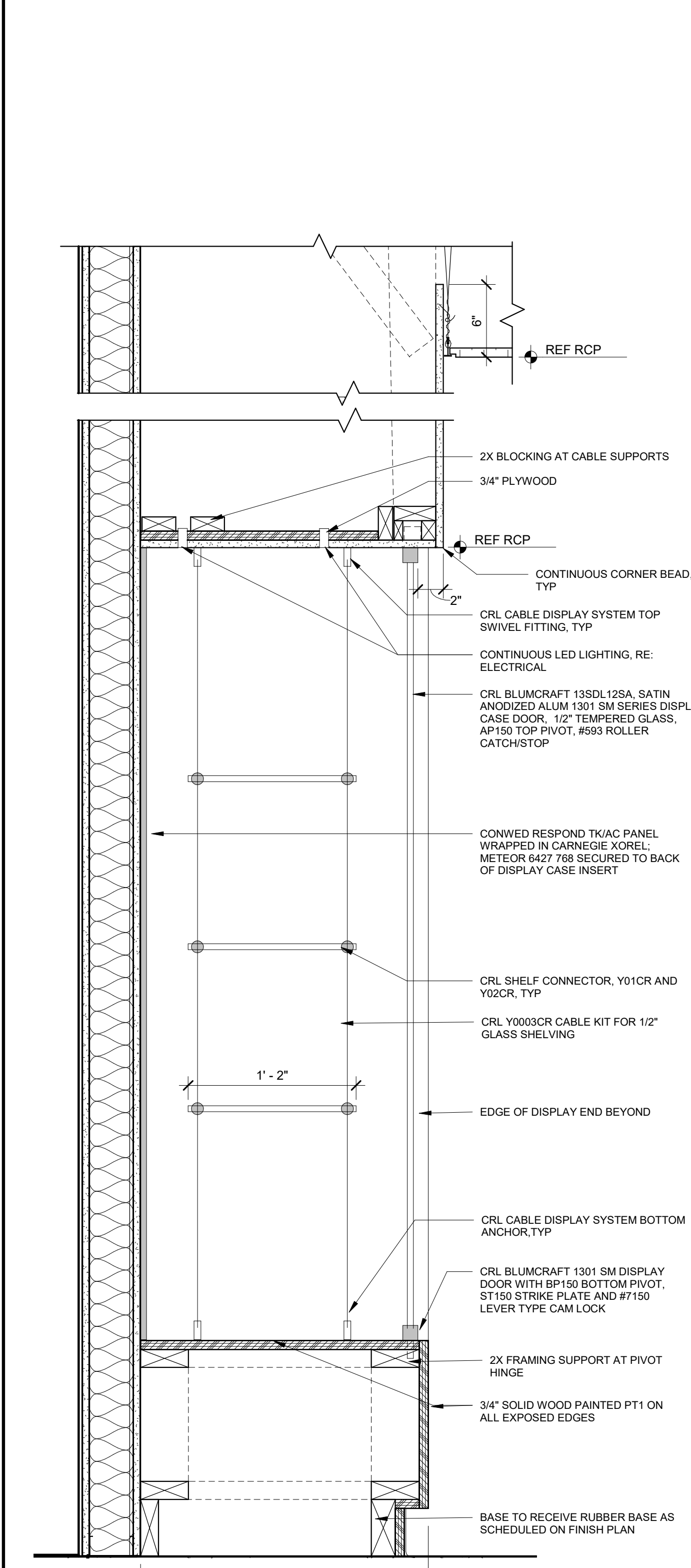
06 RCP DETAIL @ BAFFLE TO GYP HEADER
1 1/2" = 1'-0"



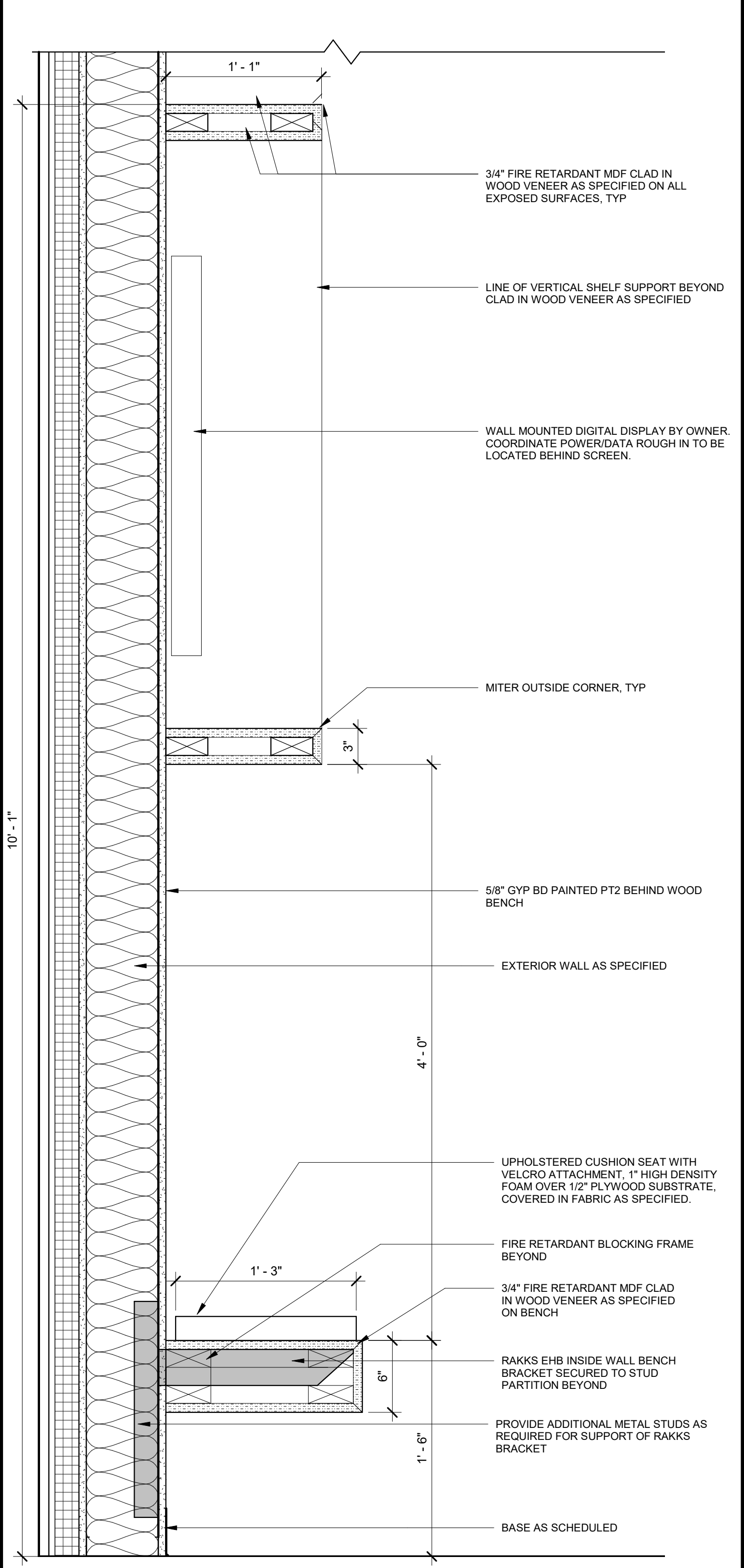
04 RCP DETAIL @ VARIED HEIGHT CLG
1 1/2" = 1'-0"



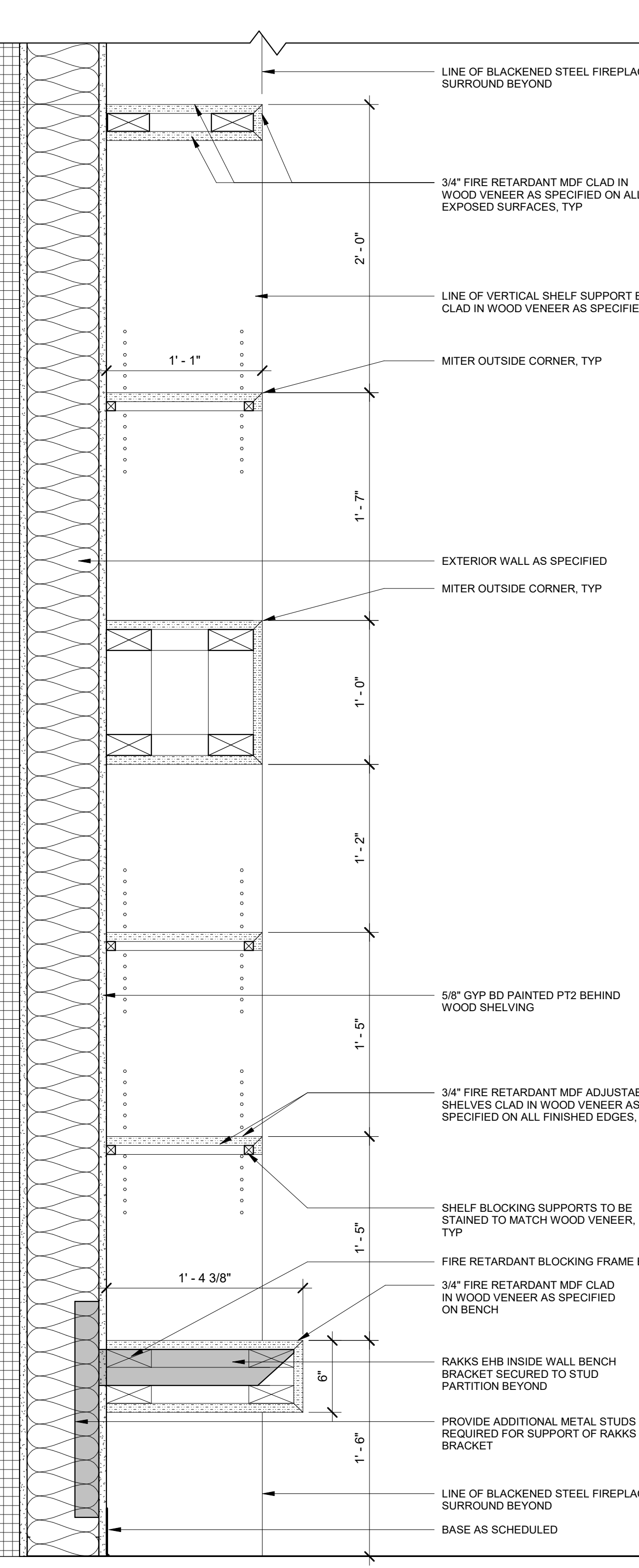
02 RCP DETAIL @ COIL DRAPERY TRACK
1 1/2" = 1'-0"



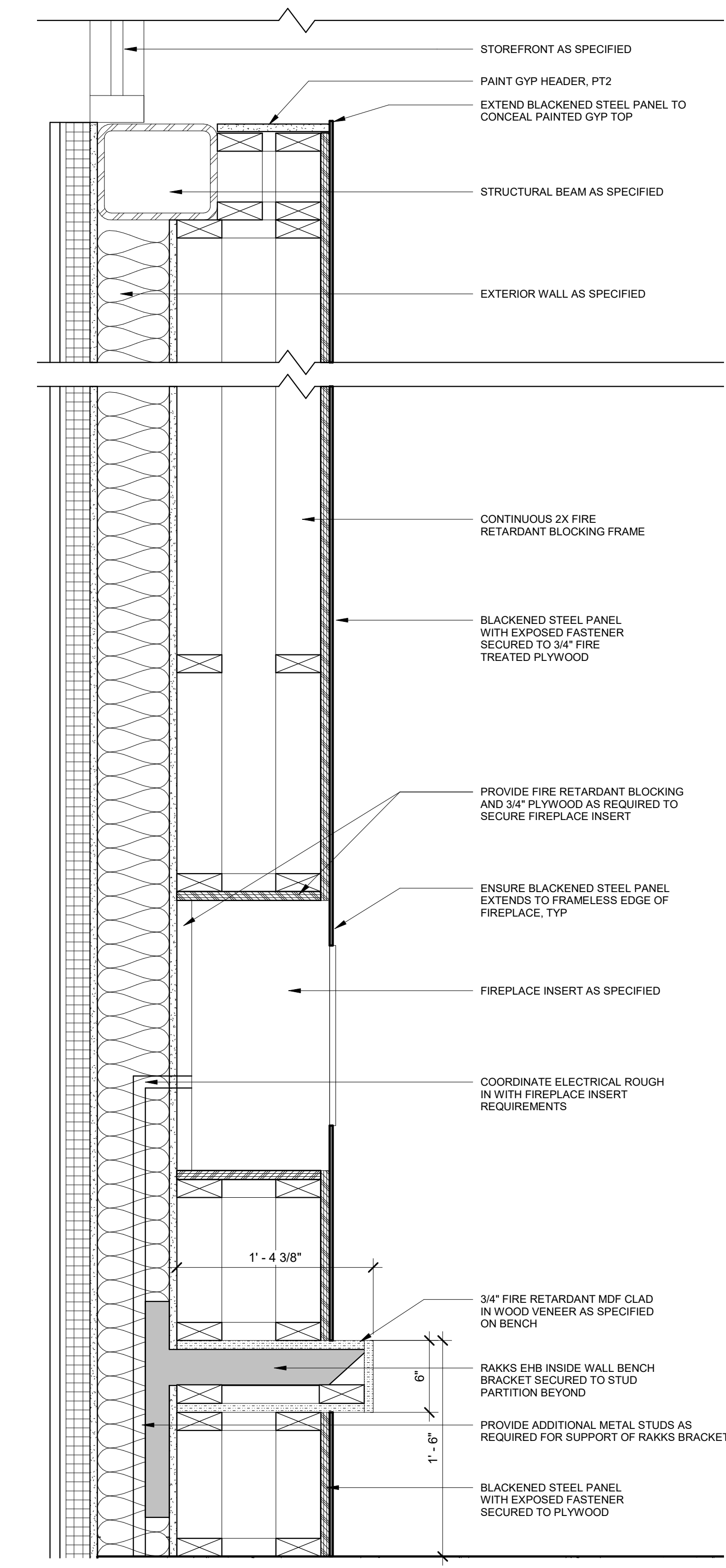
07 SECTION @ DISPLAY CASE
1 1/2" = 1'-0"



05 SECTION @ FIREPLACE BENCH
1 1/2" = 1'-0"



03 SECTION @ FIREPLACE SHELIVING
1 1/2" = 1'-0"



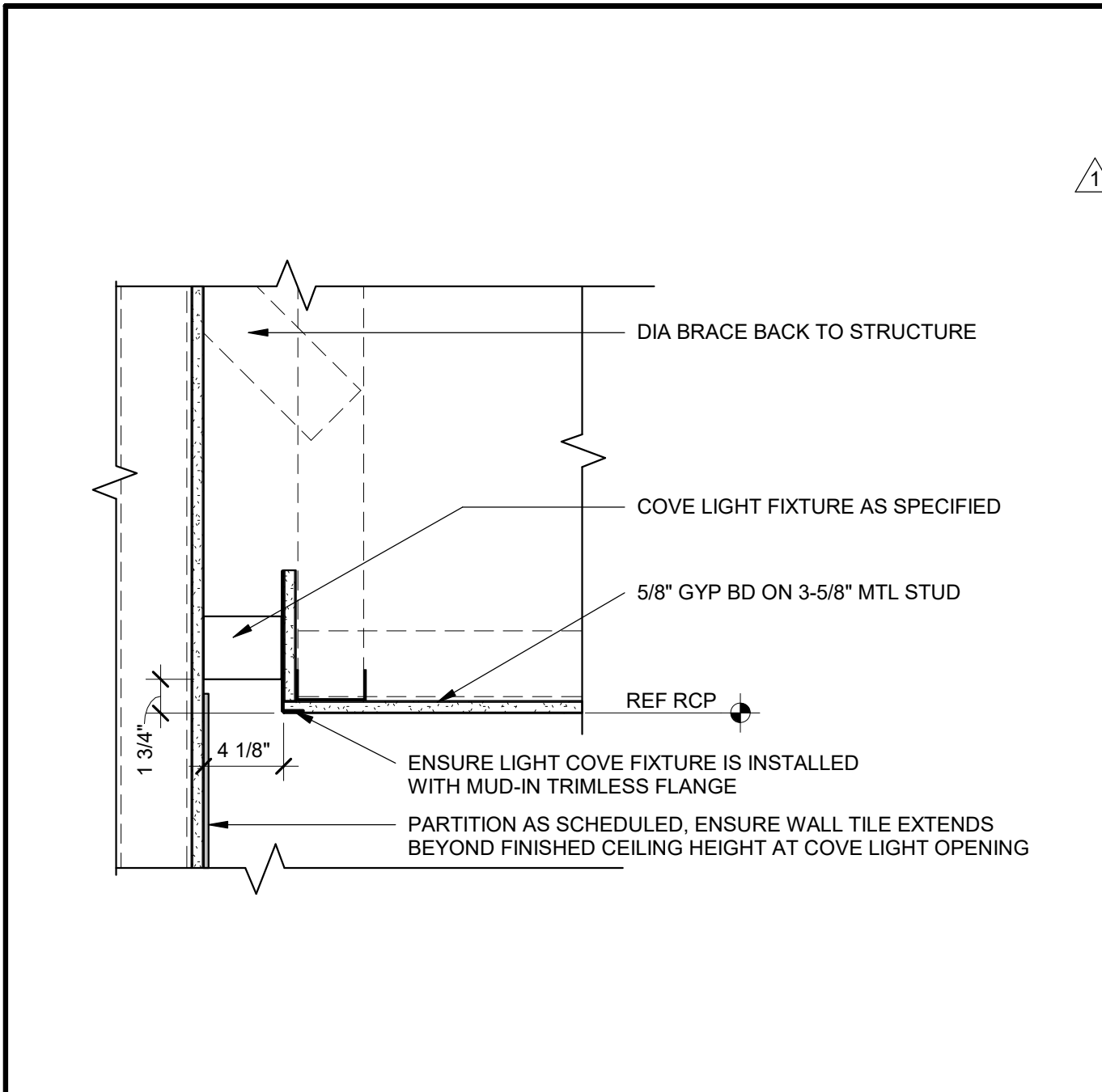
01 SECTION @ FIREPLACE
1 1/2" = 1'-0"

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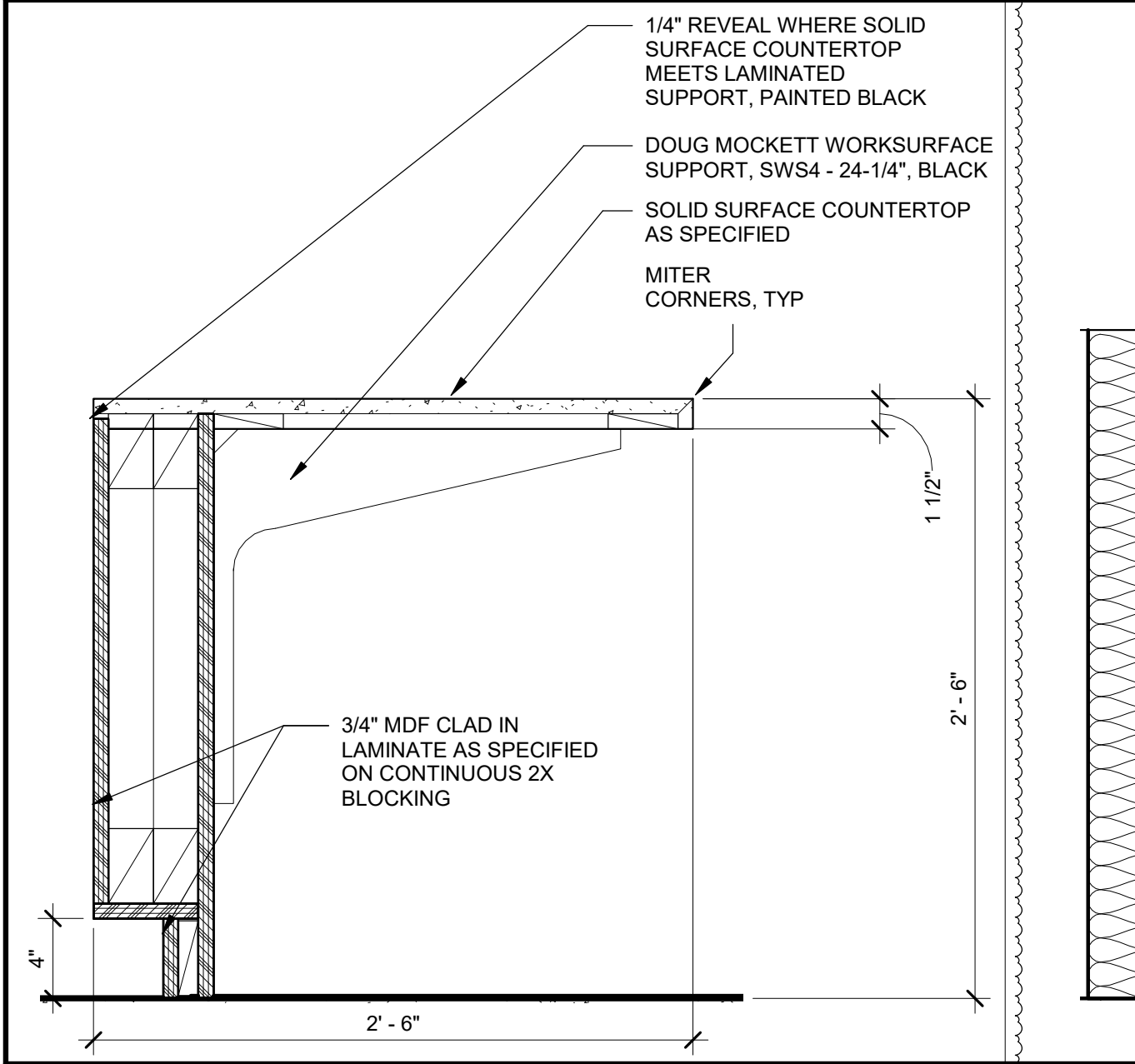
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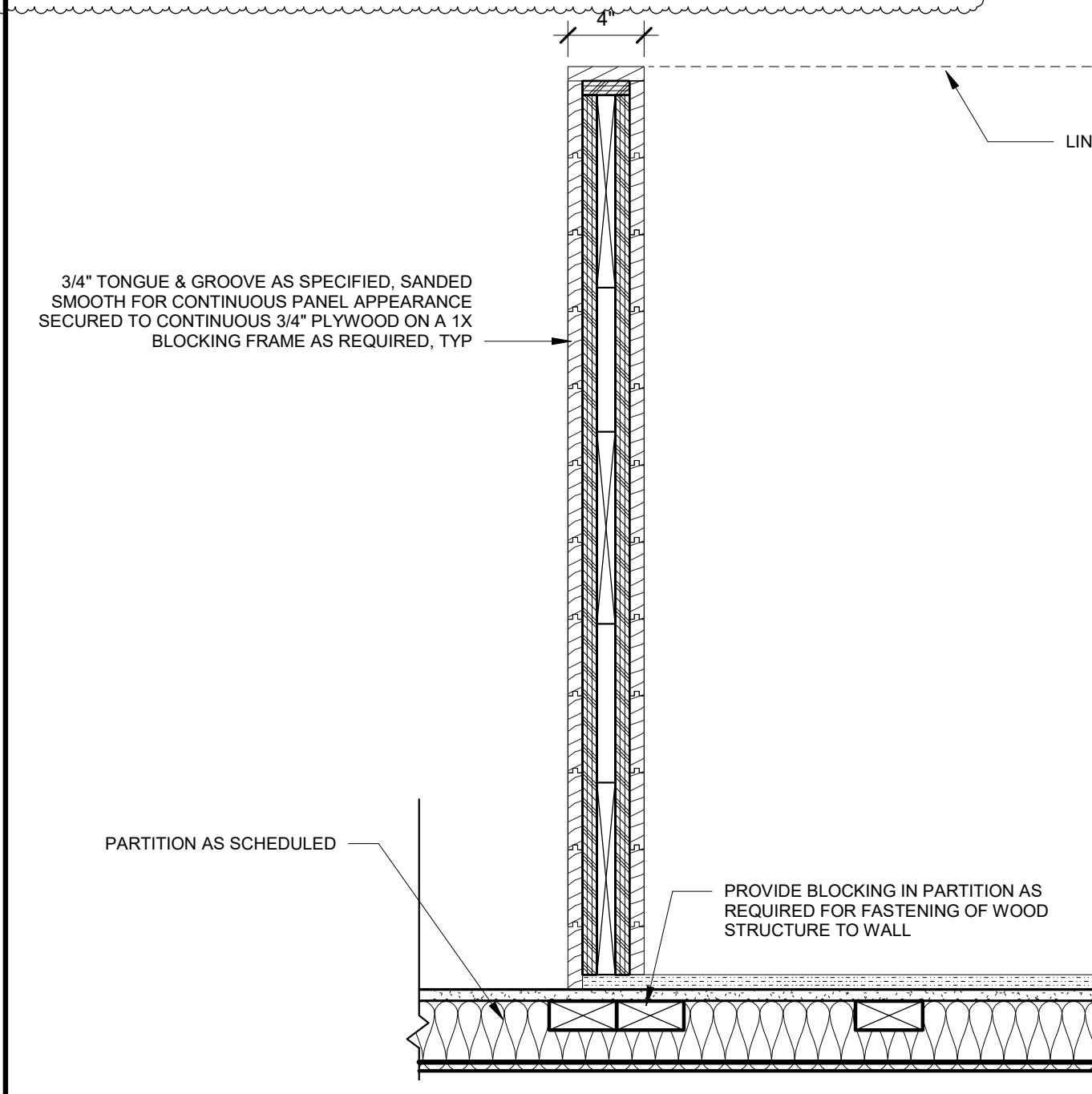
Revision No.	Description	Date



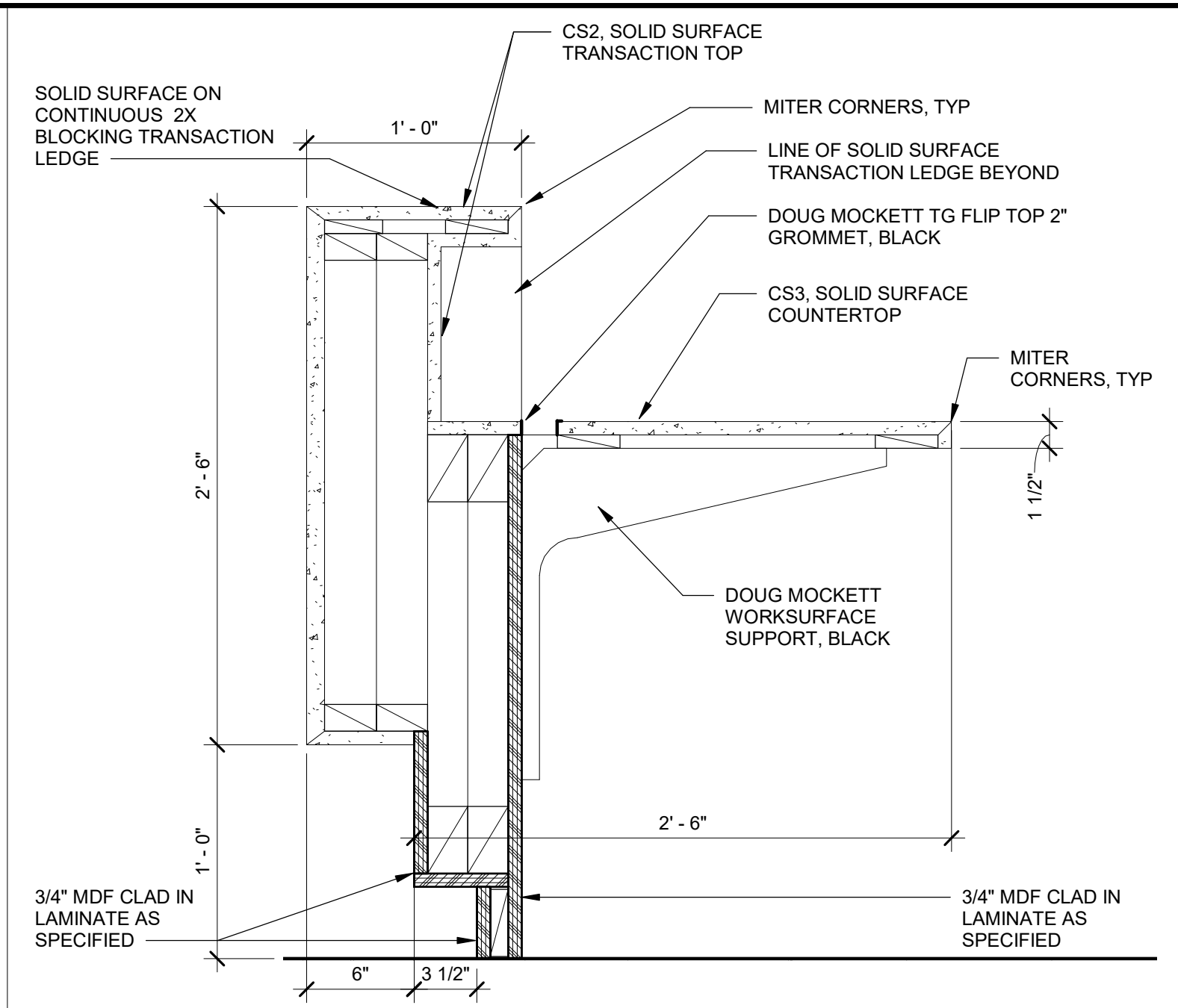
11 RCP DETAIL AT COVE LIGHT
1 1/2" = 1'-0"



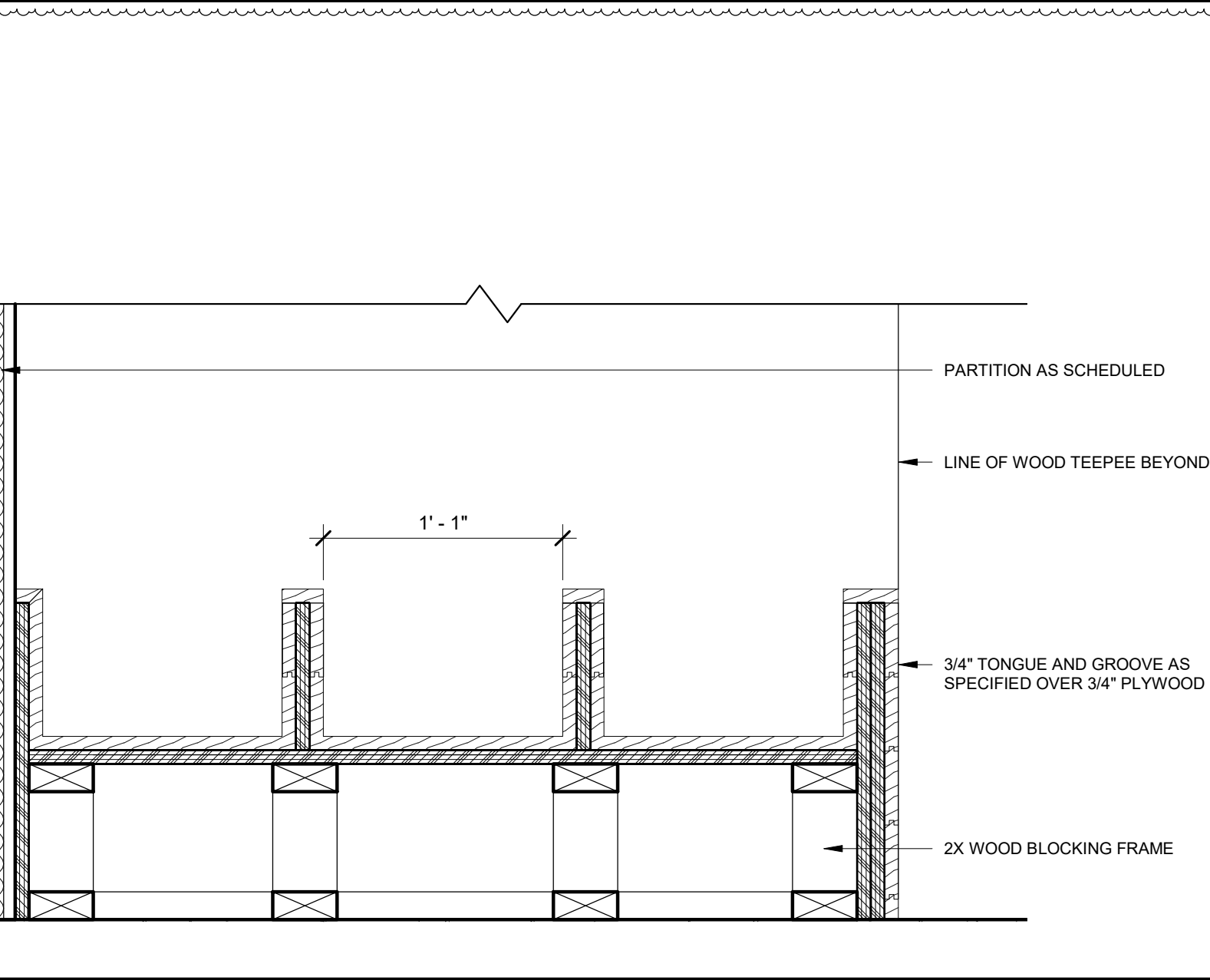
10 SECTION @ CIRC DESK COUNTER
1 1/2" = 1'-0"



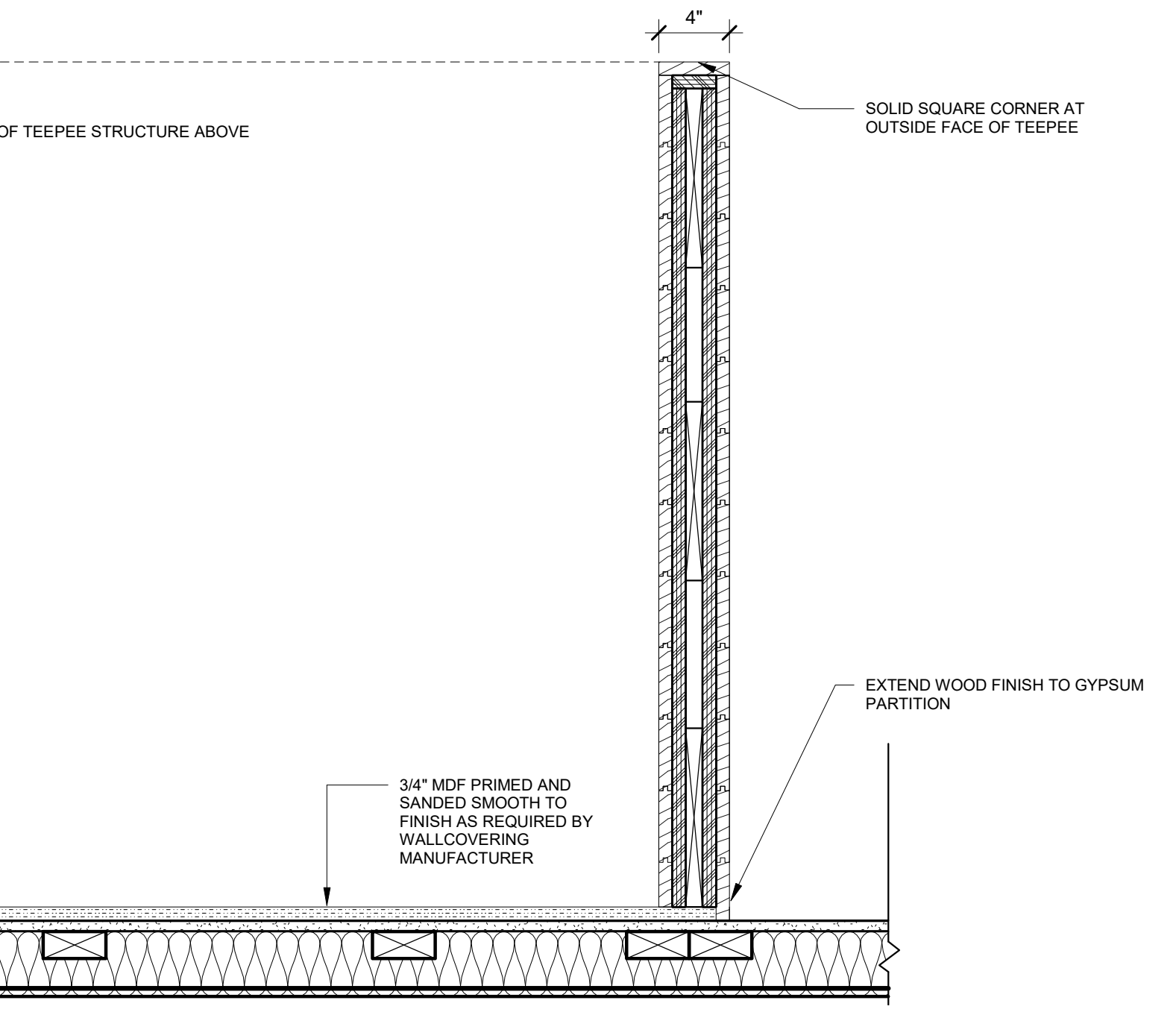
07 SECTION @ TEEPEE NICHE
1 1/2" = 1'-0"



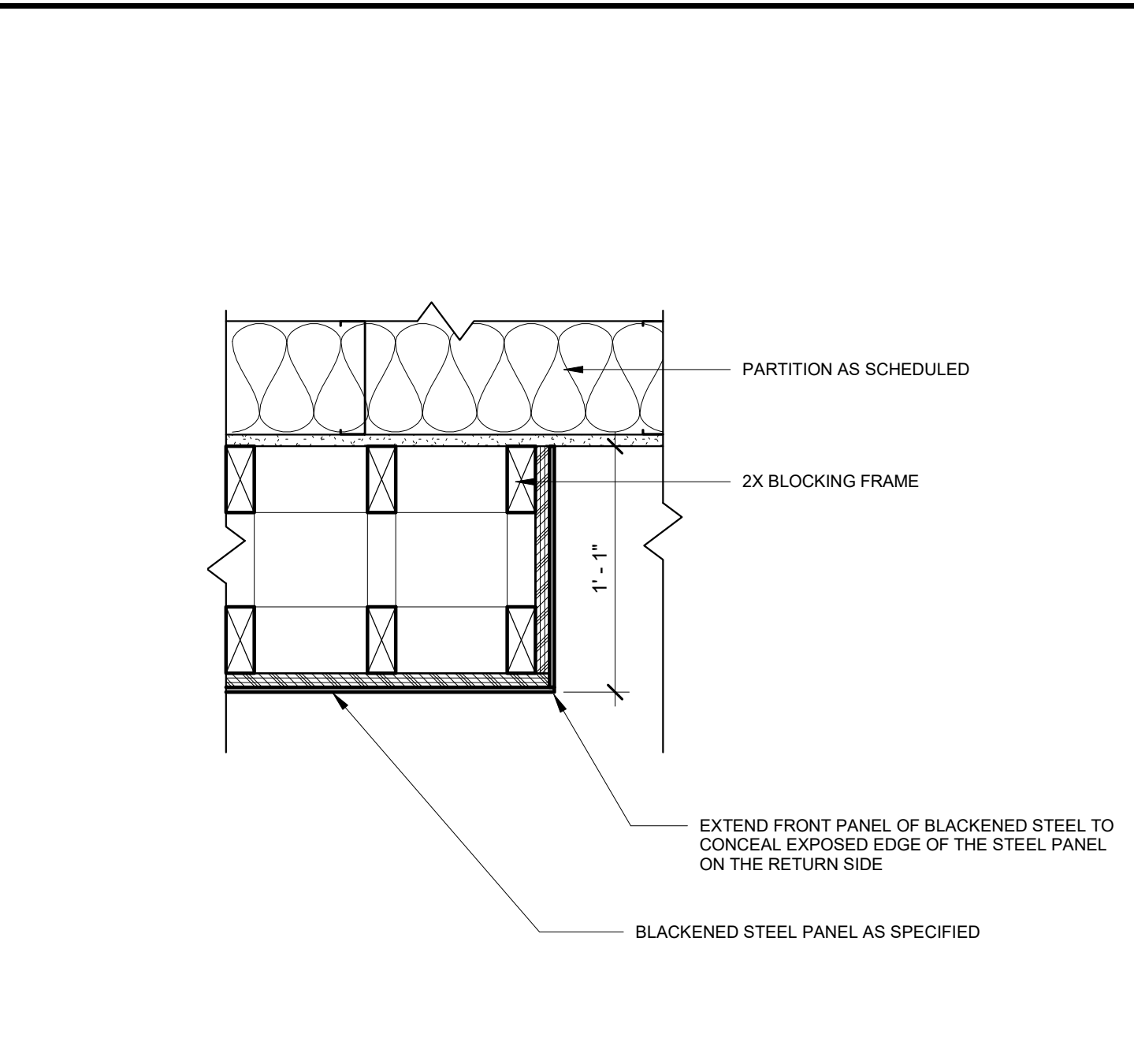
09 SECTION @ CIRC DESK
1 1/2" = 1'-0"



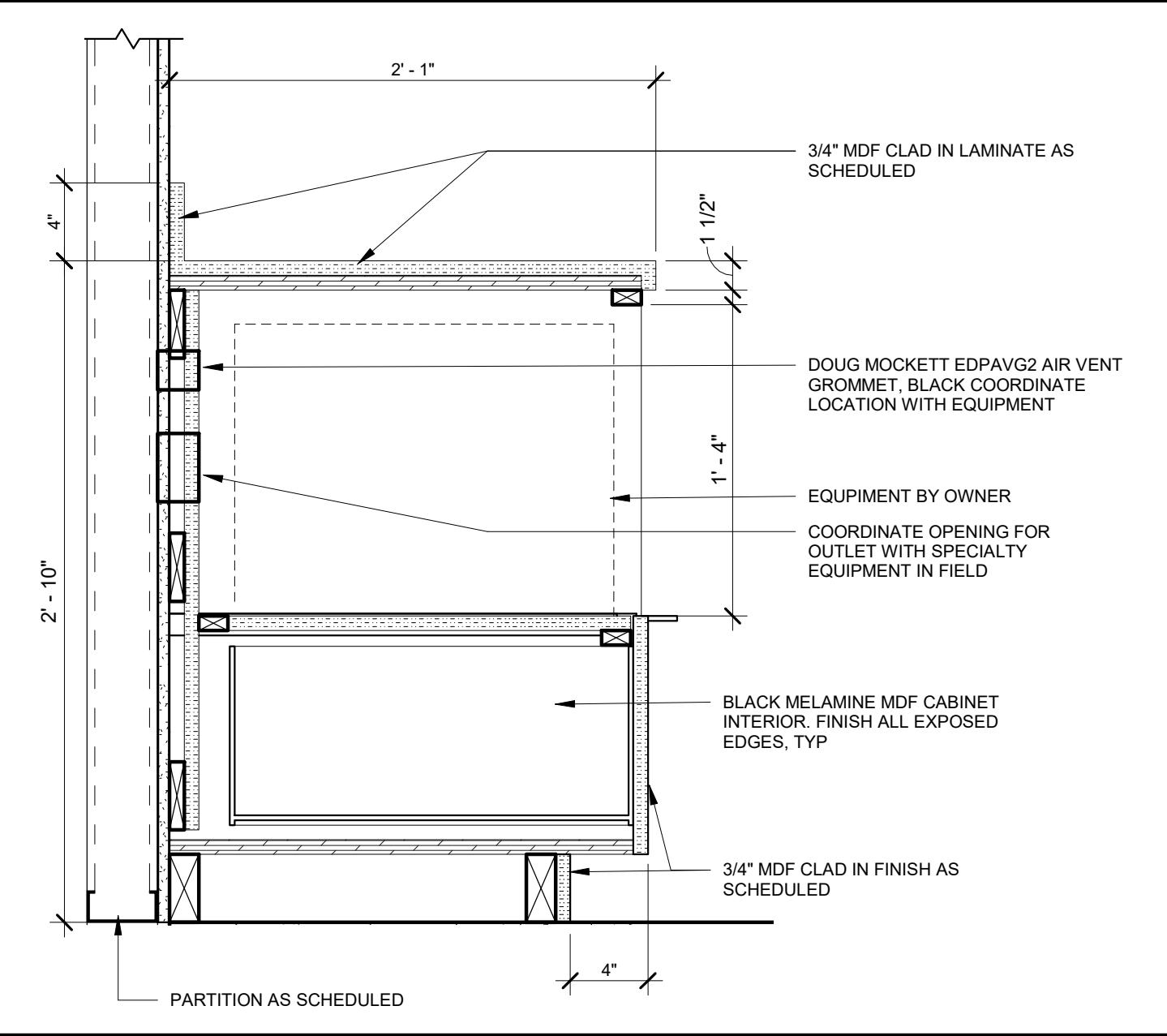
08 SECTION @ TEEPEE BOOK DISPLAY
1 1/2" = 1'-0"



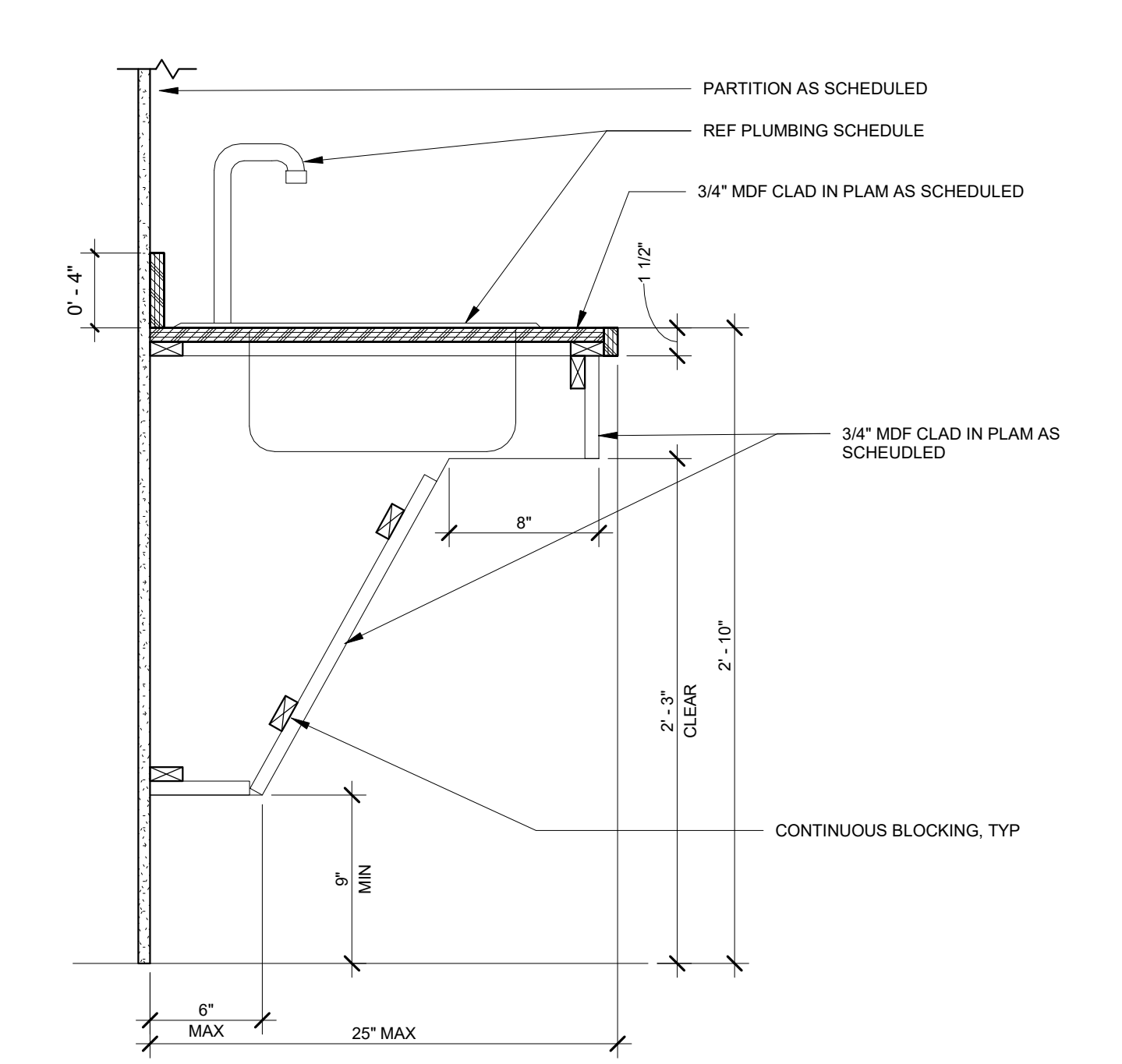
07 SECTION @ TEEPEE NICHE
1 1/2" = 1'-0"



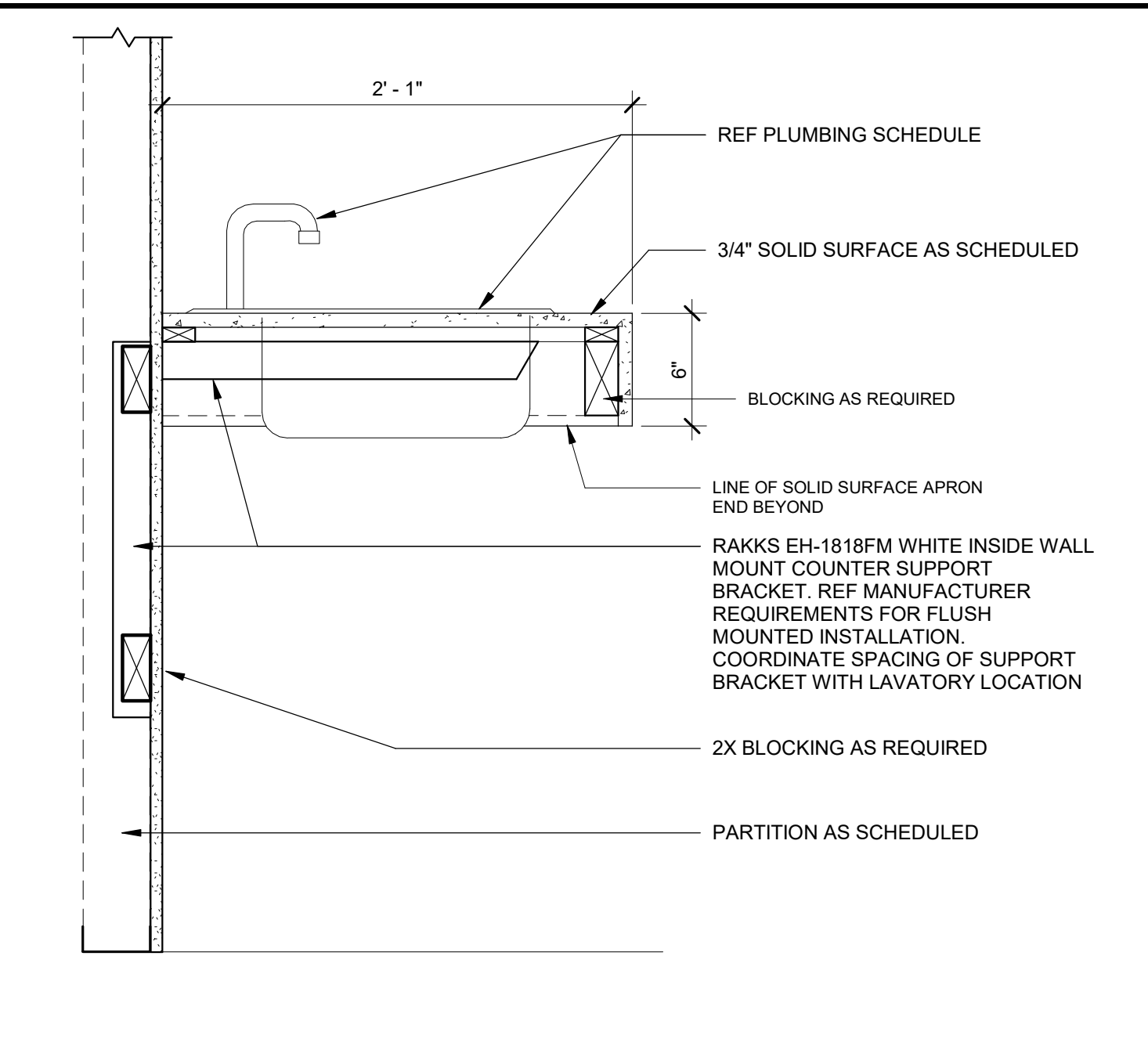
06 SECTION @ SIDE OF FIREPLACE
1 1/2" = 1'-0"



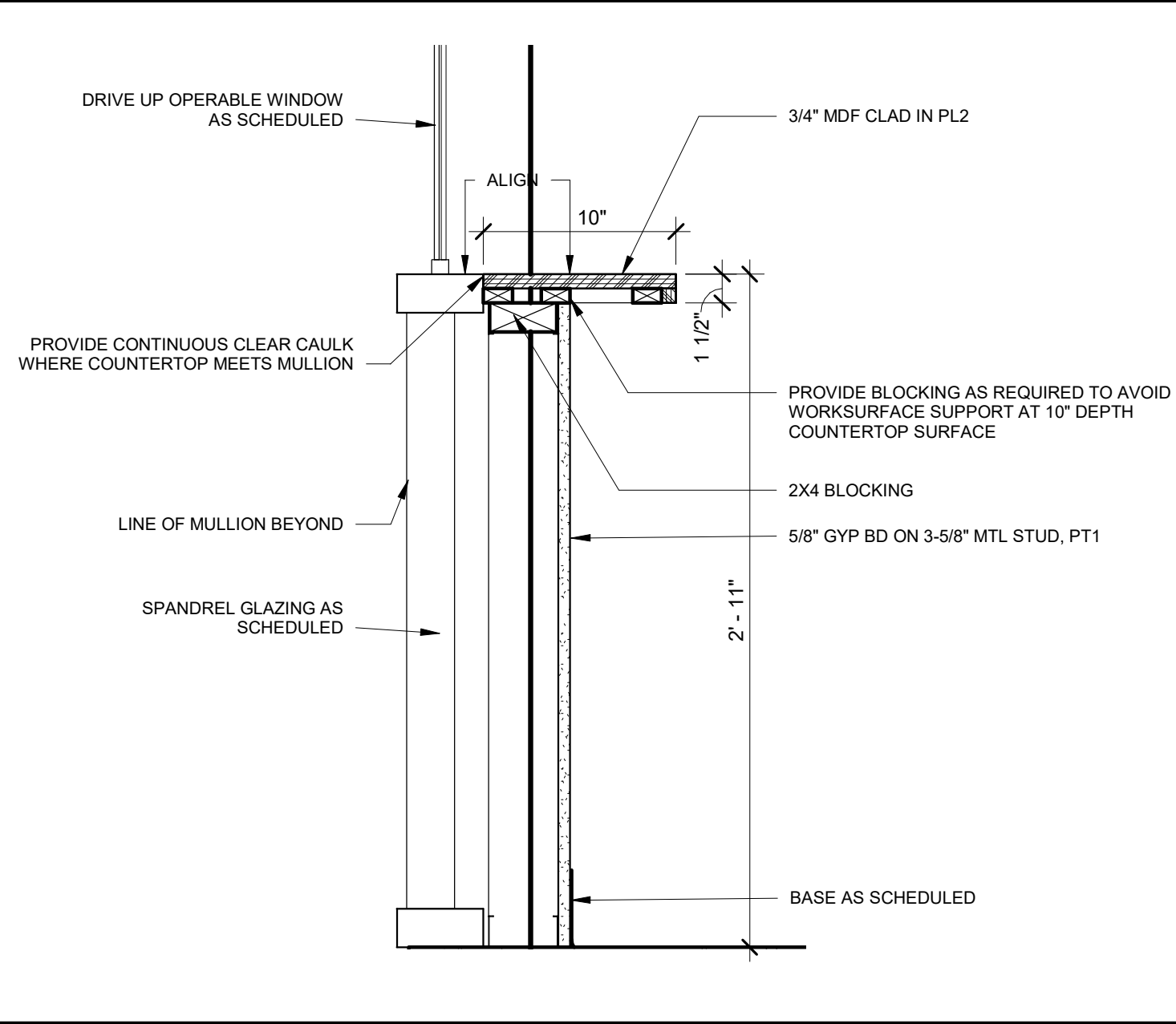
05 SECTION @ MICROWAVE CABINET
1 1/2" = 1'-0"



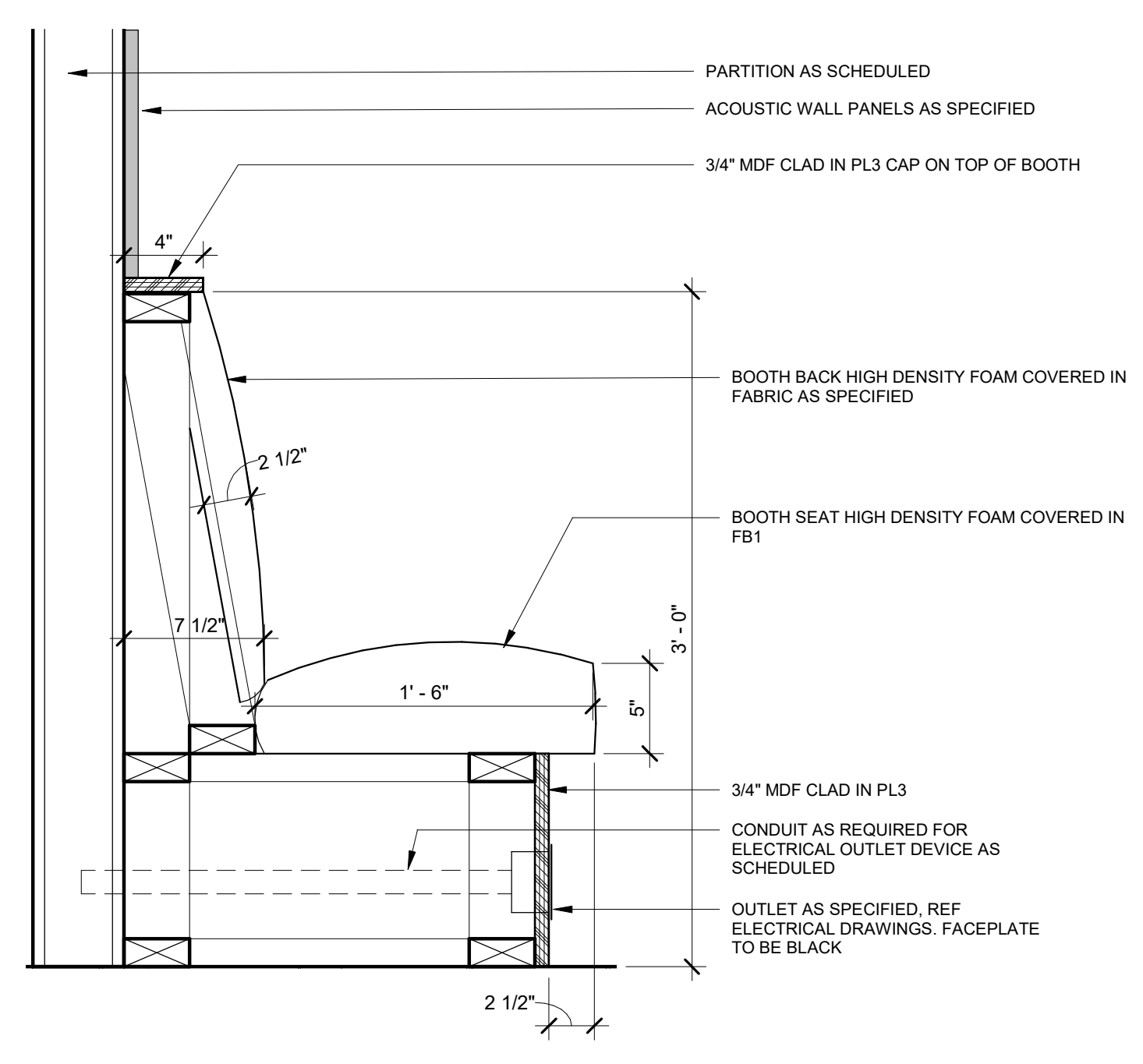
04 SECTION @ ADA SINK
1 1/2" = 1'-0"



03 SECTION @ RESTROOM LAVATORY
1 1/2" = 1'-0"



02 SECTION @ DRIVE UP WINDOW
1 1/2" = 1'-0"



01 SECTION @ BOOTH
1 1/2" = 1'-0"

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MICHAEL JOHN HEULE

NUMBER A-5451

REGISTERED ARCHITECT

Revision No. Description Date

1 ASI001 01-14-2019

Project No. Date Drawn

WP04 12-07-2018 TLK

Drawing No.

A751
INTERIOR DETAILS

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FINISH LEGEND

FLOOR:

- CT1** CARPET TILE
MFG: INTERFACE, STYLE: WORLD WOVEN WEFT WW870, COLOR: CHARCOAL 105345, SIZE: 10"x40" TILE, INSTALL: ASHLAR,
NOTES: CUSHIONBAC RENEW ADHESIVE W/ CUSHION
- CT2** CARPET TILE
MFG: INTERFACE, STYLE: WORLD WOVEN LOOM WW890, COLOR: CHARCOAL 105361, SIZE: 10"x40" TILE, INSTALL: ASHLAR,
NOTES: CUSHIONBAC RENEW ADHESIVE W/ CUSHION
- CT3** CARPET TILE
MFG: INTERFACE, STYLE: WORLD WOVEN DOBBY WW890, COLOR: CHARCOAL 105385, SIZE: 10"x40" TILE, INSTALL: ASHLAR,
NOTES: CUSHIONBAC RENEW ADHESIVE W/ CUSHION
- CT4** CARPET TILE
MFG: INTERFACE, STYLE: STEP REPEAT, COLOR: IRON 104944, SIZE: 20"x20" TILE, INSTALL: ASHLAR
- CT5** WALK OFF CARPET TILE
MFG: MATSINC, STYLE: ENTERPRISE TILE, COLOR: ANTHRACITE, SIZE: 20"x20" TILE, INSTALL: QUARTER TURN
- FT1** FLOOR TILE
MFG: DAL TILE, STYLE: PORTFOLIO PF09, COLOR: CHARCOAL, SIZE: 12" X 24", INSTALL: ASHLAR
- PC** POLISHED CONCRETE
NOTES: CLEAR
- SC** SEALED CONCRETE
NOTES: CLEAR

BASE:

- RB1** RUBBER WALL BASE
MFG: ROPPE, STYLE: PINNACLE, COLOR: CHARCOAL 123, SIZE: 4"
- TB1** TILE BASE
MFG: DAL TILE, STYLE: PORTFOLIO PF09, COLOR: CHARCOAL, SIZE: 6"x24", INSTALL SCHLUTER-DILEX-AHK FOR COVE
SHAPED PROFILE BETWEEN TILE BASE AND FLOOR TILE.
- WALL:**
- FRP1** FIBER REINFORCED PANELS
MFG: MARLITE, STYLE: PEBBLED SURFACE, COLOR: 100 WHITE, NOTES: 4'-0" WAINSCOTING
- TW1** TACWALL
MFG: CAPRI CORK, STYLE: RE-TIRE, COLOR: SLEET, SIZE: 48"X LENGTH VERIFY WITH PLAN, NOTES: 6 MM,
- WC3** WALL COVERING
MFG: NATIONAL WALLCOVERING, STYLE: LEVEL LINDSEY, COLOR: GRENADINE CUSTOM V0213, NOTES: CHILDREN'S
ACCENT WALL
- WT2** WALL TILE
MFG: ERGON, STYLE: TR3ND NEEDLE, COLOR: 30F88RB GREY, SIZE: 12"x12", PATTERN: STACKED HORIZONTALLY,
NOTES: REF ELEVATION FOR PATTERN
- WT3** WALL TILE
MFG: DAL TILE, STYLE: ANNAPOLIS, COLOR: AP06 SAIL, SIZE: 6"x16", PATTERN: VERTICAL ASHLAR, NOTES: WALL
TILE TO MEET TILE BASE, REF ELEVATIONS

PAINT:

- PT1** PAINT
MFG: BENJAMIN MOORE, COLOR: SWISS COFFEE, NOTES: FLAT FINISH ON CEILING, EGGSHELL FINISH ON
WALLS, SEMI GLOSS ON DOOR FRAMES
- PT2** PAINT
MFG: BENJAMIN MOORE, COLOR: IRON MOUNTAIN, NOTES: EGGSHELL FINISH ON WALLS
- PT3** PAINT
MFG: BENJAMIN MOORE, COLOR: BELLADONNA LILY 2093-40, NOTES: EGGSHELL FINISH ON WALLS
- PT4** PAINT
MFG: BENJAMIN MOORE, COLOR: SYMPHONY BLUE 2060-10, NOTES: EGGSHELL FINISH ON WALLS
- PT5** PAINT
MFG: BENJAMIN MOORE, COLOR: WEDGEWOOD GREY HC-146, NOTES: EGGSHELL FINISH ON WALLS
- MISCELLANEOUS:**
- BS1** BLACKENED STEEL
MFG: STANDARD SHEET METAL, STYLE: COLOR: , NOTES: 4'X8' PANELS
- CS1** SOLID SURFACE
MFG: CAESAR STONE, STYLE: SLEEK CONCRETE, COLOR: 4003, RESTROOM COUNTERTOP
- CS2** SOLID SURFACE
MFG: CAESAR STONE, STYLE: ORGANIC WHITE, COLOR: 4600, CIRCULATION DESK
TRANSACTION LEDGE
- CS3** SOLID SURFACE
MFG: CAESAR STONE, STYLE: CONCRETE, COLOR: 2003, CIRCULATION DESK COUNTER
- DP1** COIL DRAPERY
MFG: CASCADE COIL DRAPER, STYLE: 3/16" 19 GA COLOR: PC
FREEDOM RED

- FB1** UPHOLSTERY FABRIC
MFG: CAMIRA, STYLE: EBB COLOR: POTTERY HUE 09
- FB2** UPHOLSTERY FABRIC
MFG: MAHARAM, STYLE: DIVINA MELANGE COLOR: 421
- PL1** PLASTIC LAMINATE
MFG: WILSONART, COLOR: STEEL MESH 4879-38, NOTES: FINE
VELVET FINISH, MILLWORK VERTICAL SURFACE
- PL2** PLASTIC LAMINATE
MFG: FORMICA, COLOR: COLORCORE 2 927C-58 FOLKSTONE,
NOTES: MATTE FINISH, MILLWORK COUNTERTOP
- PL3** PLASTIC LAMINATE
MFG: FORMICA, COLOR: RECLAIMED DENIM FIBER, NOTES:
PLEX FINISH, BOOTH
- WD1** WOOD VENEER
MFG: DOOGEE VENEERS, COLOR: QTD RUSTIC PLANKED
WALNUT, NOTES: LOG 7740853-11
- WD2** WOOD TONGUE & GROVE
STYLE: HICKORY WIDE QUARTERED, FINISH: CLEAR WITH
STAIN AS REQUIRED TO CREATE UNIFORM APPEARANCE
ACROSS GRAINING, MATCH ARCHITECT SAMPLE, NOTES: 4"
WIDTHS SANDED SMOOTH TO DECREASE SEAM APPEARANCE

GENERAL NOTES

- INSTALL ALL PRODUCTS PER MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- GROUT JOINTS AT ALL CERAMIC TILE FLOORS AND WALLS TO BE 1/8" U.N.O. GROUT SHALL BE SEALED AFTER SETTING TIME RECOMMENDED BY MANUFACTURER.
- PROVIDE EXPANSION JOINTS AS RECOMMENDED BY MANUFACTURER WITH SEALANT TO MATCH GROUT JOINTS.
- CONTRACTOR SHALL INQUIRE TO ARCHITECT FOR ANY AREAS WITH MISSING INFORMATION, OR WHERE FLOOR MATERIAL IS NOT INDICATED. PRIOR TO BIDDING, IN ALL CASES, ALL SPACES SHALL RECEIVE FINISHES.
- THE ROOM FINISH KEY SCHEDULE DOES NOT INCLUDE EVERY ITEM WHICH MAY REQUIRE A COLOR ASSIGNMENT; THOSE ITEMS WILL HAVE COLOR SELECTIONS MADE THROUGH THE SUBMITTAL PROCESS, INCLUDING BUT NOT LIMITED TO, WOOD STAIN, VISUAL DISPLAY BOARDS, ACOUSTIC PANELS, ETC.
- SEE SHEET A600 FOR CEILING TYPES.
- SEE INTERIOR ELEVATIONS AND BUILDING SECTIONS FOR SPECIFIC LOCATIONS OF COLORS AND ADDITIONAL FINISH MATERIALS (E.G. TRIM, ETC.).
- PROVIDE A TRANSITION STRIP AT ALL EDGES OF DISSIMILAR MATERIALS, E.G. TILE TO CARPET, TILE TO SEALED CONCRETE, COLOR AND PROFILE BY ARCHITECT. SEE COLOR SCHEDULE DOCUMENT, AND/OR SUBMIT PRODUCT SAMPLES FOR ARCHITECT'S SELECTION.
- THE FOLLOWING ITEMS SHALL BE PAINTED TO MATCH ADJACENT WALLS, UNLESS NOTED OTHERWISE: AIR GRILLES, LOUVERS, ACCESS PANELS, ETC.
- WALL FINISHES AS INDICATED ARE TO BE FULL HEIGHT (FLOOR TO CEILING) UNLESS NOTED OTHERWISE.
- ALL INTERIOR SEALANT SHALL MATCH ADJACENT SURFACES UNLESS NOTED OTHERWISE. ALL JOINTS BETWEEN DISSIMILAR MATERIALS SHALL BE SEALED. SEAL ALL JOINTS AT COUNTERTOPS & BACKSPLASHES.
- FOR BIDDING PURPOSES, FINISH PLANS INDICATE FLOOR PATTERNS THAT MAY BE REQUIRED. ACTUAL COLOR DESIGNATIONS AND FINAL MATERIAL SELECTIONS WILL BE ISSUED AS AN ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS AT A LATER DATE. REFERENCE SPECS FOR MATERIALS.
- RUBBER BASE SHOULD NOT BE INSTALLED ON EXPOSED STRUCTURAL BEAMS/COLUMNS. COORDINATE WITH ARCHITECT IN FIELD WITH QUESTIONS OVER INSTALLATION. PAINT ALL EXPOSED STEEL HANGERS, CONDUIT, EXPOSED LOW VOLTAGE CABLING AND ANY OTHER EXPOSED SURFACES PER SPEC.

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KEYNOTES

FINISH FLOOR LEGEND

XX0	FLOOR FINISH	NOTE: SEE REFLECTED CEILING PLAN SHEET A600 FOR CEILING FINISHES.
XX0	BASE FINISH	
XX0	WALL FINISH	
CARPET, CT1	CARPET, CT4	POLISHED CONCRETE, PC
CARPET, CT2	CARPET, CT5	SEALED CONCRETE, SC
CARPET, CT3	FLOOR TILE, FT1	

TRANSITION LEGEND

- ←(A)→ TILE TO CARPET:
SCHLUTER SCHIENE SATIN ANO ALUM AE
- ←(B)→ CONCRETE TO CARPET:
ROPPE REDUCER #26 LUNAR DUST 114
- ←(C)→ LUXURY VINYL TO CARPET:
ROPPE JOINER #60 LUNAR DUST 114



1 INTERIOR FINISH PLAN

1/8" = 1'-0"

SAPP DESIGN ARCHITECTS

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Springfield, MO 65804 417.877.9600

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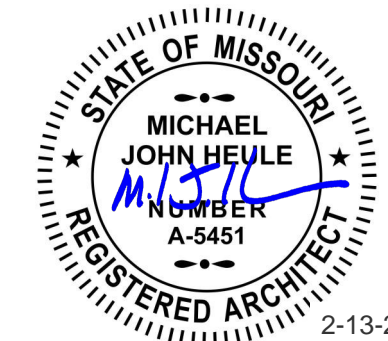
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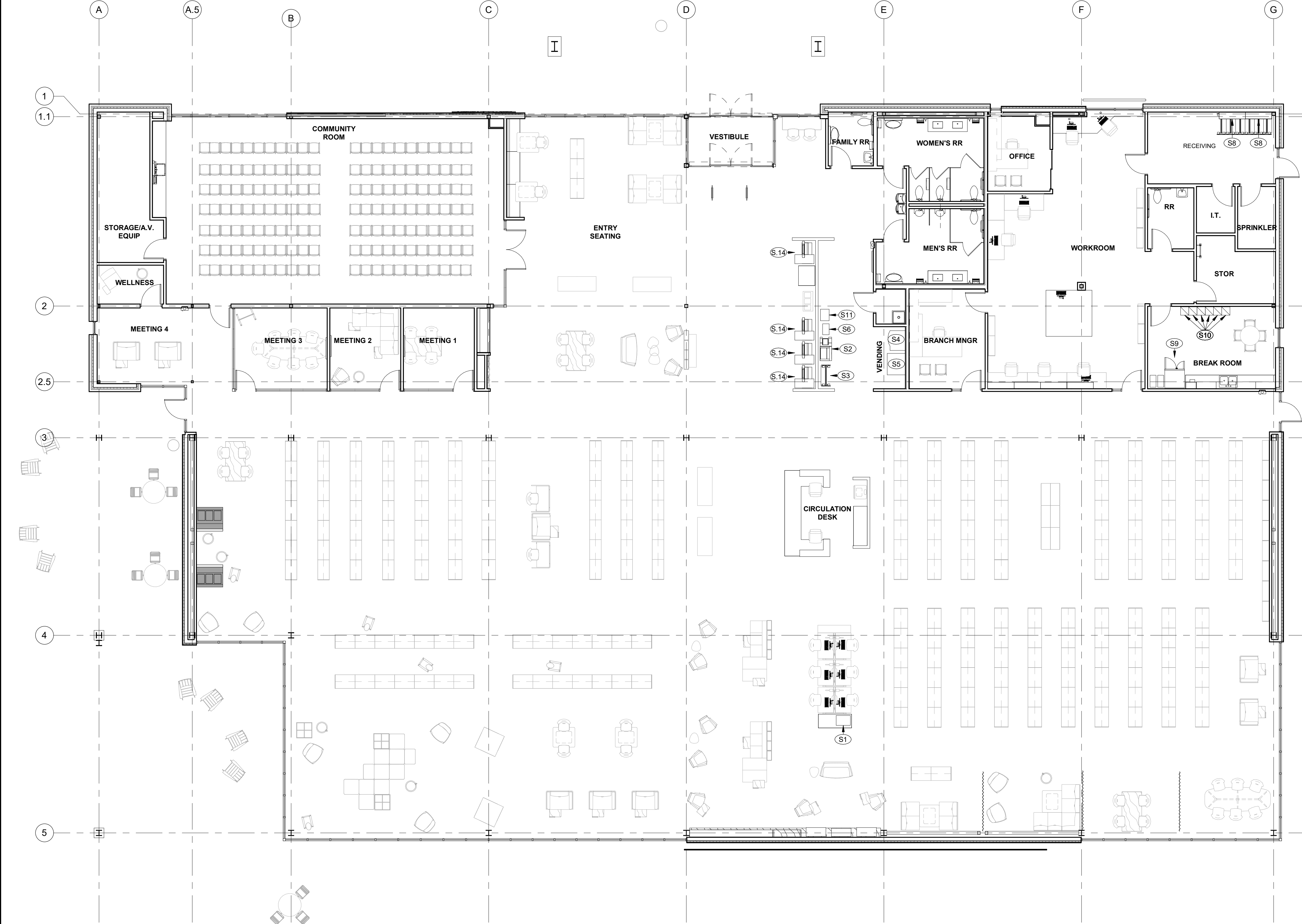
Project No.	Date	Drawn
WP04	12-07-2018	TLK

Drawing No.

A800

INTERIOR FINISH PLAN

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FF&E SCHEDULE		
Type Mark	Description	Comments
S1	PRINTER	OWNER PROVIDED, OWNER INSTALLED
S2	COPIER	OWNER PROVIDED, OWNER INSTALLED
S3	LAPTOP CART	OWNER PROVIDED, OWNER INSTALLED
S4	BEVERAGE VENDING MACHINE	OWNER PROVIDED, OWNER INSTALLED
S5	VENDING MACHINE	OWNER PROVIDED, OWNER INSTALLED
S6	FAX MACHINE	OWNER PROVIDED, OWNER INSTALLED
S7	RFID SCANNER GATE	OWNER PROVIDED, OWNER INSTALLED
S8	ADJUSTABLE SHELVES	KNAPE & VOGT, 82/182 SERIES, 82 TI 39, 182BP BLK 10.5, BLACK MELAMINE SHELVES, GC PROVIDED AND INSTALLED
S9	REFRIGERATOR	LG LFX25974, GC PROVIDED AND INSTALLED
S10	LOCKERS	Lyon Locker, PP5252 Double Tier 15x15x36, PUTTY, GC PROVIDED AND INSTALLED
S11	SHRED BOX	OWNER PROVIDED, OWNER INSTALLED
S12	COFFEE MAKER	OWNER PROVIDED, OWNER INSTALLED
S13	UTILITY CART	OWNER PROVIDED, OWNER INSTALLED
S.14	SELF CHECK KIOSK	OWNER PROVIDED, OWNER INSTALLED

1 MAIN FLOOR FF&E PLAN
1/8" = 1'-0"

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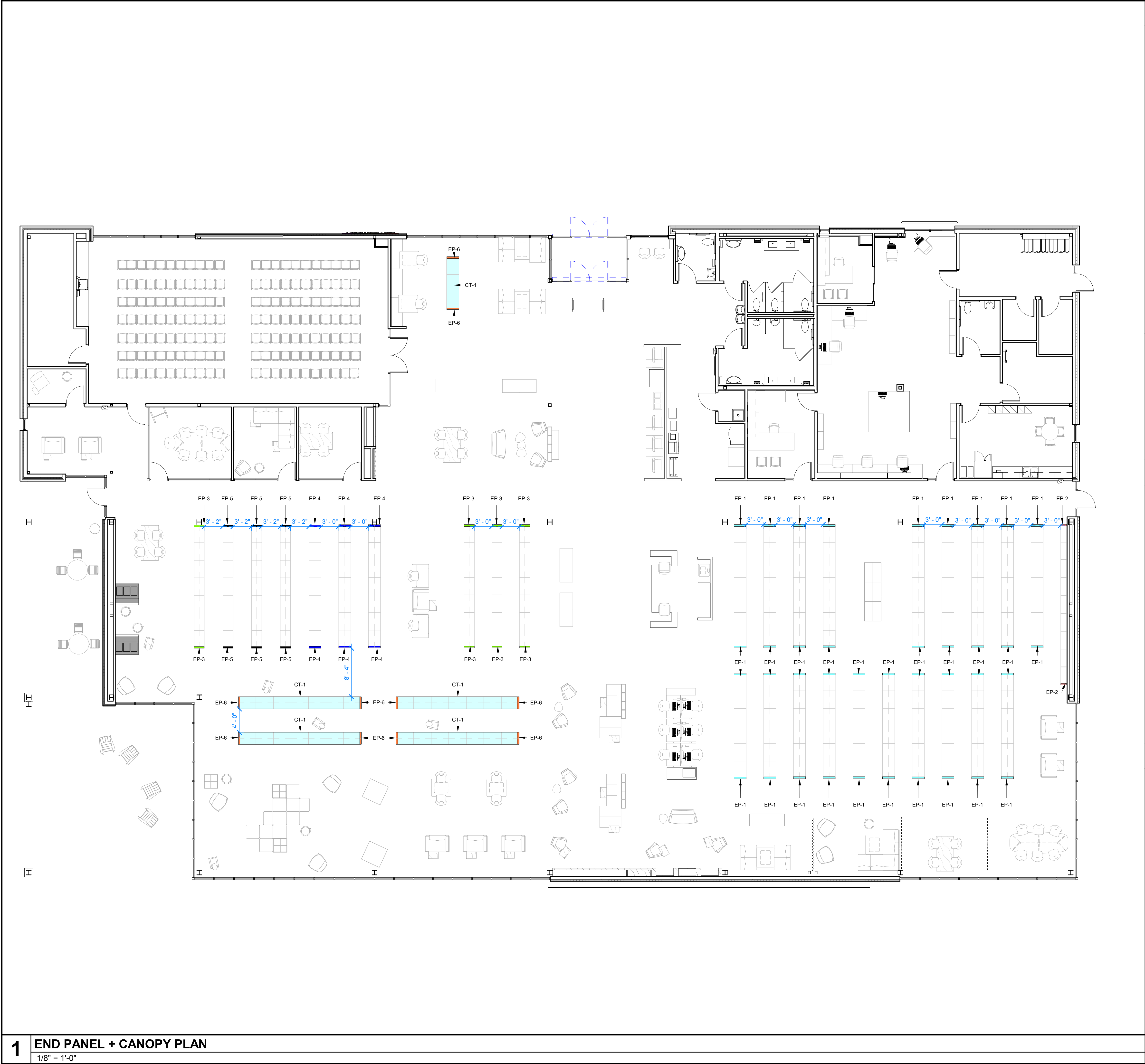
NUMBER
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REGISTERED ARCHITECT

Revision No.	Description	Date

Project No. WP04	Date 12-07-2018	Drawn TLK
Drawing No. A900 FF&E PLAN		

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1 END PANEL + CANOPY PLAN
1/8" = 1'-0"

END PANEL + CANOPY LEGEND

EP-1

NEW 72" H x 25" W SLAB END PANEL: FORMICA COLORCORE2 9285C-58 WHITE TWILL WITH COORDINATING PVC EDGE BANDING ON ALL SIDES, AND 4" BRUSHED STAINLESS STEEL TOE KICK

(38) TOTAL

EP-2

NEW 72" H x 12" W SLAB END PANEL: FORMICA COLORCORE2 9285C-58 WHITE TWILL WITH COORDINATING PVC EDGE BANDING ON ALL SIDES, AND 4" BRUSHED STAINLESS STEEL TOE KICK

(2) INSTALLED BY MCPL

EP-3

NEW 60" H x 21" W SLAB END PANEL: FORMICA COLORCORE2 9285C-58 WHITE TWILL WITH COORDINATING PVC EDGE BANDING ON ALL SIDES, AND 4" BRUSHED STAINLESS STEEL TOE KICK

(8) INSTALLED BY MCPL

EP-4

NEW 60" H x 25" W SLAB END PANEL: FORMICA COLORCORE2 9285C-58 WHITE TWILL WITH COORDINATING PVC EDGE BANDING ON ALL SIDES, AND 4" BRUSHED STAINLESS STEEL TOE KICK

(6) TOTAL

EP-5

NEW 60" H x 21" W SLAB END PANEL: FORMICA COLORCORE2 9285C-58 WHITE TWILL WITH COORDINATING PVC EDGE BANDING ON ALL SIDES, AND 4" BRUSHED STAINLESS STEEL TOE KICK. TACKABLE MATERIAL SHALL BE INSET RE: F004

(6) TOTAL

EP-6

NEW 42" H x 25" W SLAB END PANEL: FORMICA COLORCORE2 9285C-58 WHITE TWILL WITH COORDINATING PVC EDGE BANDING ON ALL SIDES, AND 4" BRUSHED STAINLESS STEEL TOE KICK

(10) TOTAL

CT-1

NEW CANOPY TOP: CLAD IN FORMICA 8824-58 WHITE DROPS MATTE FINISH 1-1/2" THICK x VERIFY WIDTH AND LENGTH IN FIELD WITH OWNER SHELVING

KEYNOTES

GENERAL NOTES

- END PANEL VENDOR TO COORDINATE WITH OWNER PROVIDED SHELVING ON EXACT WIDTH AND HEIGHT PRIOR TO MANUFACTURING. COORDINATE WITH MOUNTING LOCATIONS OF THE SHELVING.
- ALL SHELVING TO BE INSTALLED BY OWNER AND OWNER VENDOR.
- ALL NEW END PANELS AND CANOPY TOPS TO BE INSTALLED BY OWNER.
- MCPL TO PREPARE ALL END PANELS FOR NEW SIGNAGE AND GRAPHICS STANDARDS
- SHOP DRAWING TO BE PROVIDED TO ARCHITECT FOR REVIEW PRIOR TO FABRICATION.
- BRANCH LOCATION: 2240 SE BLUE PARKWAY, LEE'S SUMMIT, MO 64063

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STATE OF MISSOURI

MICHAEL
JOHN HEULE
NUMBER
A-5451
EXPIRES
12/31/18
REGISTERED ARCHITECT

Revision No.	Description	Date

Project No.	Date	Drawn
WP04	12-07-2018	TLK

Drawing No.
F003
SHELVING END PANELS + CANOPIES

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		1" = 1'-0"
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BUILDING CODE AND STANDARDS

2015 INTERNATIONAL BUILDING CODE (IBC 2015) WITH STANDARDS AS REFERENCED IN IBC CHAPTER 35.

STRUCTURAL DESIGN LOADS:

	UNIFORM (PSF)	CONCENTRATED (LB)
DEAD LOAD - ACTUAL WEIGHT OF MATERIALS USED ADDING THE FOLLOWING		
ALLOWANCE FOR MEP	10	
ALLOWANCE FOR ROOFING SYSTEM	10	
FLOOR LIVE & MISC LOADS		
SLAB ON GRADE	100	2,000
LIBRARY - STACK ROOM	150	
SIDEWALKS	250	
CEILING	5	
PARTITION (LATERAL LOAD)	10	
RAILING (LATERAL LOAD AT TOP)	50 PLF	200
ROOF LIVE LOAD	20 PSF	

SNOW DESIGN DATA

GROUND SNOW LOAD, P_g	20 PSF
FLAT ROOF SNOW LOAD, P_f	20 PSF
SNOW EXPOSURE FACOR, C_e	1.0
SNOW LOAD IMPORTANCE FACTOR, I_s	1.1
THERMAL FACTOR, C_t	1.0
DRIFT SURCHARGE LOAD	30 PSF
DRIFT WIDTH	7 FT

WIND DESIGN DATA

BASIC WIND SPEED, V_{ULT}/V_{ASD}	120 MPH/93 MPH
RISK CATEGORY	III
WIND EXPOSURE	C
COMPONENTS AND CLADDING (ULT. PSF)	
	10 SF 50 SF 100 SF
INTERIOR ROOF (ZONE 1)	-35.0 / +16.0 -32.9 / +16.0 -32.0 / +16.0
EDGE ROOF (ZONE 2)	-58.6 / +32.0 -44.2 / +28.7 -37.9 / +27.3
CORNER ROOF (ZONE 3)	-58.6 / +32.0 -44.2 / +28.7 -37.9 / +27.3
INTERIOR WALL (ZONE 4)	-34.7 / +32.0 -31.4 / +28.7 -33.2 / +27.3
CORNER WALL (ZONE 5)	-42.7 / +32.0 -36.1 / +28.7 -33.2 / +27.3
OVERHANG (ZONES 1 AND 2)	-50.4 -48.3 -47.4
OVERHANG (ZONE 3)	-50.4 -48.3 -47.4
PARAPET	-64.0 / +50.4 -54.1 / +62.2 -49.9 / -54.5
END ZONE DISTANCE (a)	10 FT

EARTHQUAKE DESIGN DATA

RISK CATEGORY	III
SEISMIC IMPORTANCE FACTOR	1.25
SITE CLASS	D
SPECTRAL RESPONSE COEFFICIENTS	$S_B = 0.114$ g; $S_1 = 0.067$ g
DESIGN SPECTRAL RESPONSE COEFFS	$S_{DS} = 0.122$; $S_{D1} = 0.107$
SEISMIC DESIGN CATEGORY	B
SEISMIC FORCE-RESISTING SYSTEM	STRUCTURAL STEEL NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
DESIGN BASE SHEAR	$V_U = 20$ K
SEISMIC RESPONSE COEFFICIENT	$C_S = 0.051$
RESPONSE MODIFICATION COEFFICIENT	$R = 3$
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE PROCEDURE

GEOTECHNICAL DESIGN DATA

ALLOWABLE SOIL BEARING PRESSURE	2,000 PSF
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MATERIAL DATA:

CONCRETE & REINFORCING	
CONCRETE WEIGHT	ALL CONCRETE SHALL BE NORMAL-WEIGHT UNLESS NOTED OTHERWISE.
C.I.P. CONCRETE STRENGTH (MIN f'_c at 28 days)	4,000 PSI (AE) - UNREINFORCED EXTERIOR FLATWORK 4,000 PSI (AE) - REINFORCED EXTERIOR FLATWORK 4,000 PSI (AE) - EXTERIOR FOOTINGS AND FOUNDATION WALLS 8,000 PSI - GROUT FOR BASE PLATE/BEARING PLATES 4,000 PSI INTERIOR SLABS ON GRADE
MAX WATER/CEMENT RATIO	0.45 UNLESS OTHERWISE NOTED
CEMENT TYPE	PORTLAND TYPE I/II - ASTM C150
AGGREGATES	REGULAR WEIGHT HARDROCK TYPE - ASTM C33
ADMIXTURES	ASTM C494
AIR-ENTRAIMENT	ASTM C260
REINFORCING STEEL	ASTM A615, GRADE 60, DEFORMED
WELDABLE REINFORCING STEEL	ASTM A706, GRADE 60, DEFORMED
WELDED WIRE REINFORCEMENT	ASTM A1064, PROVIDE SHEET-TYPE; ROLL-TYPE IS NOT ACCEPTABLE
PERFORMED EXPANSION JOINT(1/2")	ASTM D1751
STEEL	
W SHAPES, WT SHAPES	ASTM A992
PLATES	ASTM A572, GRADE 50
C AND MC SHAPES, ANGLES	ASTM A529, GRADE 50
HSS SQUARE AND RECTANGULAR TUBES	ASTM A500 GRADE C, $F_y = 50$ ksi
ANCHOR RODS	ASTM F1554, GRADE 55
WASHERS FOR ANCHOR RODS	ASTM F844
HIGH STRENGTH BOLTS	ASTM F3125, GRADE 325 TYPE 1
WASHERS FOR HIGH STRENGTH BOLTS	ASTM F436
HEAVY HEX NUTS	ASTM A563
STICK ELECTRODES	AWS CLASS E70XX AWS CLASS E6010 OR E6011 (GALV. SURFACES)
METAL DECKING	ASTM A1008 OR ASTM A653
MASONRY	
ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH TMS 602/ACI 530.1/ASCE 6.	
MASONRY STRENGTH (Fm AT 28 DAYS)	1,900 PSI
CONCRETE MASONRY UNITS (CMU)	ASTM C90 NORMAL WEIGHT 2,350 PSI (BASED ON NET AREA)
CMU STRENGTH	ASTM C270, TYPE S BELOW GRADE, TYPE N ABOVE GRADE, PROPORTION METHOD
MORTAR TYPE	
GROUT TYPE	ASTM C476 - MAX. AGGREGATE SIZE = 3/8"
GROUT STRENGTH (AT 28 DAYS)	2,000 PSI
HORIZONTAL WIRE REINFORCING	ASTM A661, LADDER-TYPE AT 16" O.C VERTICALLY IN 10 FT. LENGTHS 9 GAGE WIRE PER ASTM A1064 INTERIOR WALLS: MILL GALVANIZE PER EXTERIOR WALLS: HOT DIP GALVANIZED PER ASTM A 153 CLASS B-2 (2) #4 BARS CONTINUOUS RUBBER SHEAR KEY WITH DUROMETER HARDNESS OF 80 MIN PVC SHEAR KEY WITH DUROMETER HARDNESS OF 85 MIN
CONTINUOUS BOND BEAM REINFORCING	
CONTRACTION JOINT KEY	

GENERAL NOTES

- THE STRUCTURAL DRAWINGS ARE TO BE COORDINATED AND USED IN CONJUNCTION WITH THE CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS AND IMMEDIATELY NOTIFY THE STRUCTURAL ENGINEER OF ANY DISCREPANCIES.
- OLSSON ASSOCIATES SHALL NOT BE RESPONSIBLE FOR, NOR HAVE CHARGE OF, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES FOR THE SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THIS PROJECT AND SHALL NOT BE RESPONSIBLE FOR CONTRACTOR'S FAILURE TO CARRY OUT HIS WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- OLSSON ASSOCIATES SHALL NOT BE RESPONSIBLE FOR, NOR HAVE CONTROL OVER, THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS, ANY OF THEIR AGENTS OR EMPLOYEES, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL PROVIDE AND BE RESPONSIBLE FOR ALL TEMPORARY SHORING AND BRACING REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT. ALL SHORING AND BRACING MEMBERS AND CONNECTIONS SHALL BE OF SUFFICIENT STRENGTH TO SUPPORT THE IMPOSED LOADS. TEMPORARY MEMBERS AND CONNECTIONS SHALL NOT BE REMOVED UNTIL PERMANENT MEMBERS ARE IN PLACE AND FINAL CONNECTIONS ARE MADE.
- THE CONTRACTOR SHALL VERIFY IN FIELD ALL DIMENSIONS, ELEVATIONS, AND MEMBER SIZES AS SHOWN ON THE CONTRACT DRAWINGS FOR THE EXISTING CONSTRUCTION PRIOR TO THE DETAILING OR FABRICATION OF ANY NEW STRUCTURAL ELEMENT. THE CONTRACTOR SHALL LOCATE ANY CONSTRUCTION RELATED DISCREPANCIES, PRIOR TO THE SCHEDULED START OF ANY DETAILING OR FABRICATION, THE CONTRACTOR SHALL FURNISH THE ABOVE INFORMATION IN THE FORM OF DETAILED SKETCHES TO THE STRUCTURAL ENGINEER FOR REVIEW.
- THE CONTRACTOR SHALL PROVIDE ALL MEASURES AND PRECAUTIONS NECESSARY TO PREVENT DAMAGE AND/OR SETTLEMENT OF EXISTING OR NEW CONSTRUCTION INSIDE OR OUTSIDE THE PROJECT LIMITS DURING EXCAVATION AND FOUNDATION CONSTRUCTION. ANY DAMAGE TO NEW OR EXISTING CONSTRUCTION INSIDE OR OUTSIDE OF THE PROJECT LIMITS CAUSED BY CONSTRUCTION TECHNIQUES IS THE RESPONSIBILITY OF THE CONTRACTOR.
- NO FIELD MODIFICATIONS TO ANY STRUCTURAL COMPONENTS SHALL BE MADE WITHOUT PRIOR APPROVAL BY THE STRUCTURAL ENGINEER. THIS INCLUDES, BUT IS NOT LIMITED TO, REVISIONS DUE TO MIS-LOCATION, MISFIT, OR ANY OTHER CONSTRUCTION ERRORS.
- NO OPENING SHALL BE PLACED IN ANY STRUCTURAL MEMBER (OTHER THAN AS INDICATED ON APPROVED SHOP DRAWINGS) UNTIL THE LOCATION HAS BEEN APPROVED BY THE STRUCTURAL ENGINEER.
- PROVIDE SLEEVE LAYOUTS FOR ALL PENETRATIONS THROUGH STRUCTURAL MEMBERS FOR ALL TRADES. LAYOUTS ARE TO BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.
- ALL ROOF MOUNTED EQUIPMENT OR EQUIPMENT SUSPENDED FROM FLOORS OR THE ROOF SHALL BE SUPPORTED BY BEAMS DESIGNATED FOR SUCH PURPOSE ONLY. IF NO SUPPORT HAS BEEN DESIGNATED, OR IF A QUESTION ARISES, NOTIFY STRUCTURAL ENGINEER PRIOR TO ERECTION OF EQUIPMENT.
- ALL DETAILS, SECTIONS, AND NOTES ON THE DRAWINGS ARE INTENDED TO BE TYPICAL FOR SIMILAR SITUATIONS ELSEWHERE UNLESS OTHERWISE NOTED. SEE THE ARCHITECTURAL GENERAL ARRANGEMENT DRAWINGS FOR DETAILS AND DIMENSIONS NOT INDICATED ON THE STRUCTURAL DRAWINGS.
- MATERIALS AND EQUIPMENT SHALL BE STORED AND TRANSPORTED IN A MANNER SO AS NOT TO EXCEED THE ALLOWABLE CAPACITY OF THE CONSTRUCTION.
- THE SPECS AND REQUIREMENTS INDICATED ON THIS SHEET ARE INTENDED AS A BASIC SUMMARY OF THE MATERIAL, CONSTRUCTION, AND INSPECTION REQUIREMENTS FOR THE PROJECT. ADDITIONAL, MORE STRINGENT REQUIREMENTS MAY BE GIVEN IN THE PROJECT SPECIFICATIONS. IN THE EVENT OF A CONFLICT BETWEEN THE REQUIREMENTS INDICATED ON THIS SHEET AND THOSE IN THE PROJECT SPECS, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.
- FOR LOCATIONS AND DIMENSIONS OF SLEEVES, CURBS, OPENINGS, AND DEPRESSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS, SEE CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS. CONTRACTOR SHALL VERIFY AND COORDINATE LOCATION OF ABOVE ITEMS WHETHER SHOWN ON THE STRUCTURAL DRAWINGS OR NOT.
- EMBEDDED ITEMS, SUCH AS PIPE SLEEVES, CONDUITS, AND INSERTS, SHALL BE IN PLACE BEFORE CONCRETE IS POURED.
- THE CONTRACTOR SHALL FOLLOW WRITTEN DIMENSIONS ONLY. DO NOT SCALE DRAWINGS.
- THE STEEL FRAMING COMPONENTS SHOWN RELY ON BUILDING COMPONENTS OTHER THAN STRUCTURAL STEEL FOR CONTACT STRUCTURAL STABILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN AND PROVISION OF ANY AND ALL TEMPORARY BRACING AND SHORING AGAINST WIND, ERECTION AND ALL CONSTRUCTION LOADS UNTIL ALL ELEMENTS, MEMBERS, AND CONNECTIONS (FLOORS, ROOF, SHEAR WALLS, ETC), AS SHOWN ON THE CONTRACT DOCUMENTS ARE COMPLETELY INSTALLED. THE STRUCTURAL MEMBERS SHOWN ON THE CONTRACT DOCUMENTS ARE DESIGNED FOR THE ANTICIPATED LOADS THAT THE STRUCTURE WILL BE SUBJECTED TO ONLY AFTER ALL STRUCTURAL ELEMENTS ARE IN PLACE AND FINAL CONNECTIONS ARE COMPLETE.

SHOP DRAWINGS

- ALL SHOP DRAWING SUBMITTALS SHALL BE AS DESCRIBED IN THE PROJECT SPECIFICATIONS OR IN THESE NOTES.
- SHOP DRAWINGS AND RELATED MATERIALS PREPARED BY SUPPLIERS AND SUBCONTRACTORS SHALL BE REVIEWED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTING TO THE STRUCTURAL ENGINEER.
- THE GENERAL CONTRACTOR SHALL REVIEW ALL SUBMISSIONS FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS, MEANS, METHODS, TECHNIQUES, SEQUENCES, AND OPERATION OF CONSTRUCTION, TECHNICAL CONTENT, COORDINATION OF TRADES, DIMENSIONAL ACCURACY, SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO, ALL OF WHICH ARE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- THE GENERAL CONTRACTOR SHALL APPROVE AND SO STAMP EACH SUBMISSION.
- SHOP SUBMITTALS SHALL BE SUBMITTED IN A DIGITAL FORMAT. MULTIPLE COPIES OF DRAWINGS WILL NOT BE MARKED-UP WITH REVIEW COMMENTS.
- THE STRUCTURAL DRAWINGS SHALL NOT BE USED AS BACKGROUNDS FOR THE PRODUCTION OF ANY SHOP DRAWINGS THAT ARE SUBMITTED FOR REVIEW.
- ANY DEVIATIONS FROM THE ORIGINAL DESIGN OR DESIGN CRITERIA AS SPECIFIED ON THE "FOR CONSTRUCTION" DESIGN DOCUMENTS OF THE PROJECT SHALL BE BOLDLY NOTED ON THE SHOP DRAWINGS THAT ARE SUBMITTED FOR APPROVAL.
- ALL CHANGES TO RESUBMITTED SHOP DRAWINGS SHALL BE BUBBLED.

EARTHWORK

- REFERENCE THE GEOTECHNICAL INVESTIGATION REPORT 018-0330.162 AND EROSION CONTROL PLAN 018-0330.163. THE CONTRACTOR SHALL OBTAIN A COPY OF SAID REPORT AND ANY AVAILABLE ADDENDA OR SUPPLEMENTS AND FOLLOW ALL REQUIREMENTS SPECIFIED THEREIN.
- SHALLOW FOUNDATIONS, CONTINUOUS WALL FOOTINGS, ISOLATED SPREAD FOOTINGS, AND GROUND SUPPORTED MAT FOUNDATIONS HAVE BEEN DESIGNED TO BEAR ON FIRM NATIVE SOILS OR COMPACTED ENGINEERED FILL CAPABLE OF SUPPORTING A 2,000 PSF NET ALLOWABLE BEARING PRESSURE. REFER TO THE SOILS REPORT FOR SPECIFIC SOIL PREPARATION REQUIREMENTS.
- GENERAL CONTRACTOR SHALL COMPACT EXPOSED FOOTING BOTTOMS AND EXPOSED AGGREGATE PIER SURFACES WITH HAND-OPERATED, MECHANICAL COMPACTION EQUIPMENT AFTER EACH FOOTING EXCAVATIONS IS COMPLETED AND PRIOR TO PLACING STEEL OR CONCRETE.
- PER THE ABOVE REFERENCED REPORT, THE LATERAL EARTH PRESSURES ARE AS FOLLOWS:
A. DRAINED ACTIVE EARTH PRESSURE: 50 PSF/FOOT
B. DRAINED PASSIVE EARTH PRESSURE: 295 PSF/FOOT
C. PASSIVE EARTH PRESSURE: 295 PSF/FOOT
- ALL UNSUITABLE SOILS SHALL BE REMOVED WITHIN THE EXCAVATION AREA OF THE FOUNDATIONS. ALL FOOTINGS SHALL BEAR ON VIRGIN SOIL OR PROPERLY PLACED AND COMPACTED ENGINEERED FILL.
- FOUNDATIONS EXPOSED TO FROST SHALL BE PLACED SUCH THAT THE BOTTOM OF FOUNDATION IS AT LEAST 36" BELOW THE ADJACENT FINISHED GRADE.
- SHOULD UNSUITABLE BEARING CONDITIONS BE ENCOUNTERED DURING EXCAVATION, NOTIFY THE OWNER, ARCHITECT, AND STRUCTURAL ENGINEER BEFORE CONTINUING WITH CONSTRUCTION.
- THE CONTRACTOR MUST PROVIDE SURFACE DRAINAGE AND PUMPS TO PROTECT ALL EXCAVATION FROM FLOODING. FLOODING OF ANY EXCAVATION AFTER APPROVAL OF THE SUBGRADE WILL BE CAUSE FOR RE-PREPARATION AND RE-APPROVAL OF THE SUBGRADE.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MEASURES TO PREVENT ANY WATER, FROST, OR ICE FROM PENETRATING ANY FOOTING OR SLAB SUBGRADE BEFORE AND AFTER PLACING OF CONCRETE AND UNTIL SUCH SUBGRADES ARE FULLY PROTECTED BY THE PERMANENT BUILDING STRUCTURE.
- RECORDS OF ANY EXISTING SUBGRADE INTERFERENCES, OTHER THAN THOSE INTERFERENCES SHOWN OR INDICATED ON THE CIVIL CONSTRUCTION DOCUMENTS, ARE NOT CURRENTLY AVAILABLE. DURING EXCAVATION WORK, INTERFERENCES MAY BE DISCOVERED. CONTRACTOR SHALL DOCUMENT CONSTRUCTION-RELATED DIMENSIONS OF ALL INTERFERENCES. CONTRACTOR SHALL FURNISH THE ABOVE INFORMATION IN THE FORM OF DETAILED SKETCHES TO THE STRUCTURAL ENGINEER FOR REVIEW.
- THE CONTRACTOR SHALL REVIEW ALL EXISTING SITE CONDITIONS AND THE SUBSURFACE SOILS EXPLORATION REPORT AND ESTABLISH SPECIFIC "CONSTRUCTION PROCEDURES AND SEQUENCES" FOR THE EXCAVATION, COMPACTION, FILL, AND INSTALLATION OF THE NEW BUILDING FOUNDATION. SUBMIT THESE FOR REVIEW TO THE OWNER'S SOIL TESTING LABORATORY, OWNER'S REPRESENTATIVE, AND STRUCTURAL ENGINEER.
- DO NOT BACKFILL AGAINST FOUNDATION WALLS UNTIL THE PERMANENT BELOW-GRADE LATERAL BRACING SYSTEM IS IN PLACE AND THE CONCRETE HAS ATTAINED FULL DESIGN STRENGTH.
- ALL SLABS-ON-GRADE SHALL BE PLACED OVER A LOW PERMEANCE VAPOR BARRIER, 15 MIL MINIMUM THICKNESS, OVER A BASE/SUBBASE AS SPECIFIED BY THE GEOTECHNICAL ENGINEER FOR THE PROJECT. EXISTING SUBBASE WILL BE COMPACTED IN PLACE OR WILL BE CUT OUT AND REPLACED WITH AN ENGINEERED FILL AS SPECIFIED BY THE GEOTECHNICAL ENGINEER.
- FLOWABLE FILL FOR USE AS FOUNDATION SUPPORT IS DEFINED AS CONTROLLED LOW STRENGTH MATERIAL (CLSM)
A. FLOWABLE FILL IN NOT INTENDED TO BE EXCAVATABLE IN THE FUTURE.
B. PROVIDE CONCRETE CONTRACTOR'S STANDARD MIX FOR FLOWABLE FILL THAT MEETS THE FOLLOWING REQUIREMENTS:
a. CONFORM TO THE RECOMMENDATIONS OF ACI 229R-99.
b. 28 DAY MINIMUM COMPRESSIVE STRENGTHS OF 100PSI.
c. MIXTURE SHALL FLOW INTO PLACE AND CONSOLIDATE DUE TO ITS FLUIDITY WITHOUT VIBRATION OR PUDDLING ACTION.
d. LIMIT SUBSIDENCE OF FLOWABLE FILL TO 1/8" PER FOOT OF DEPTH
e. CURING PROCEDURES ARE NOT REQUIRED, BUT PROTECT FROM FREEZING UNTIL MIX HAS HARDENED.
- REFER TO THE TESTING AND INSPECTION SECTION OF THESE NOTES FOR THE FOUNDATION TESTING AND INSPECTION REQUIREMENTS.

METAL DECK

- METAL DECK SHALL HAVE A MINIMUM 1 1/2" END BEARING AT SUPPORTS OR AS REQUIRED BY MANUFACTURER.
- METAL DECK MANUFACTURER SHALL PROVIDE FOUR STOPS, COLUMN CLOSURES, END CLOSURES, COVER PLATES, GIRDER FILERS, AND ALL OTHER ACCESSORIES AS REQUIRED BY THE SDI TO COMPLETE THE WORK, AND SHALL SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL BY THE PROJECT ENGINEER.
- FILLER SHEETS SHALL BE PROVIDED AT DECK SIDELAP ON EDGE ANGLE LOCATIONS AS REQUIRED BY THE DECK LAYOUT TO ENSURE THAT A "LOW HAT" BEARS ON THE ANGLE, AND SHALL BE WELDED TO THE ANGLE AND SCREWED TO THE ADJACENT DECK UNIT AT 6" ON CENTER.
- ALL OPENINGS IN METAL ROOF DECK LARGER THAN 6" AND LESS THAN OR EQUAL TO 12" SHALL BE REINFORCED WITH AN 18 GAGE GALVANIZED FLAT PLATE ATTACHED TO DECK AT EACH CORNER AND 6" MAXIMUM CENTERS WITH 5/8" PUDDLE WELDS OR SHEET METAL SCREWS.
- ALL OPENINGS IN METAL ROOF DECK LARGER THAN 12" IN ANY DIRECTION SHALL BE REINFORCED WITH L6X6X1/4 ANGLES ON ALL SIDES SPANNING TO THE NEAREST STRUCTURAL MEMBERS, UNLESS DETAILED OTHERWISE.
- FLOOR OR ROOF OPENINGS WIDER THAN 2'-0" IN THE DIRECTION PERPENDICULAR TO DECK SPAN SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW. SEE MECHANICAL/ELECTRICAL DRAWINGS FOR OPENINGS IN ADDITION TO THOSE SHOWN ON FRAMING PLANS.
- WELD OR FASTEN DECK TO ALL SUPPORTS, EDGE MEMBERS, OPENING FRAMES, ETC, WITH 5/8" PUDDLE WELDS OR AN APPROVED MECHANICAL FASTENER. FASTEN SIDELAPS WITH #10 TEK SCREWS, MINIMUM.
- FASTEN DECK AT 6" ON CENTER AT ALL BUILDING PERIMETER SUPPORTS.
- ALL JOINTS SHALL BE MADE OVER SUPPORTING MEMBERS ONLY, AND DECK SPANS SHALL BE CONTINUOUS OVER A MINIMUM OF THREE SPANS.

STRUCTURAL CONCRETE

- CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF:
A. ACI 301 - "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"
B. ACI 302 - "RECOMMENDED PRACTICE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION"
C. ACI 304 - "ACI MANUAL OF CONCRETE INSPECTION"
D. ACI 311 - "RECOMMENDED PRACTICE FOR MEASURING, MIXING, TRANSPORTING, AND PLACING CONCRETE"
E. ACI 315 - "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT"
F. ACI 318 - "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"
G. ACI 347 - "RECOMMENDED PRACTICE FOR CONCRETE FORMWORK"
2. CONCRETE MIX FOR INTERIOR CONCRETE SLABS-ON-GRADE SHALL ADHERE TO THE FOLLOWING CRITERIA:
A. FLY ASH MAY REPLACE 15% OF PORTLAND CEMENT MAXIMUM.
B. DO NOT USE POZZOLANS IN MIXES FOR FINISHED FLOOR SLABS.
C. AGGREGATE SHALL BE WELL GRADED WITH 1-1/2" MAXIMUM DIAMETER.
D. THE MIX SHALL CONTAIN NO ADMIXTURES THAT EXACERBATE SHRINKAGE.
E. CONCRETE SLUMP SHALL BE 4" MAXIMUM AT THE POINT OF PLACEMENT.
3. FLY ASH MAY REPLACE 25% OF PORTLAND CEMENT MAXIMUM IN STRUCTURAL SLABS SHALL
4. CURE SPECIFIC CONCRETE ELEMENTS AS INDICATED BELOW:
A. SLAB-ON-GRADE: MOISTURE-RETAINING COVER CURING.
B. STRUCTURAL SLABS: MOISTURE-RETAINING COVER CURING.
5. LABORATORY TEST REPORTS OR MATERIAL CERTIFICATES FOR CONCRETE MATERIALS AND MIX DESIGN TEST DATA, IN CONFORMANCE WITH ACI STANDARDS, SHALL BE SUBMITTED FOR REVIEW FOR EACH TYPE OF CONCRETE TO BE USED. EACH SUBMITTED MIX DESIGN SHALL IDENTIFY THE APPLICATION FOR WHICH THE MIX WILL BE USED.
6. THE CONTRACTOR SHALL SUBMIT CHECKED, DETAILED REINFORCEMENT SHOP DRAWINGS SHOWING THE LOCATIONS AND DETAILING OF ALL FOOTINGS, WALLS, PIERS, BEAMS, COLUMNS, SLABS, CONSTRUCTION JOINTS, CONTROL JOINTS, ETC, PRIOR TO FABRICATION. DETAILS SHALL INCLUDE BAR SIZES, LAPS, SPACING, AND PLACEMENT.
7. WELDED WIRE FABRIC SHALL BE LAPPED TWO PANELS AT EDGES AND ENDS, AND TIED SECURELY.
8. THE MINIMUM CONCRETE COVER FOR CAST-IN-PLACE (NON-PRESTRESSED) CONCRETE SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
A. CONCRETE CAST AGAINST/PERMANENTLY EXPOSED TO EARTH: 3"
B. CONCRETE EXPOSED TO EARTH OR WEATHER:
a. NO 6 BAR, W/31 OR D31 WIRE, AND SMALLER 2"
b. NO 5 BAR, W/31 OR D31 WIRE, AND SMALLER 1 1/2"
C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
a. SLABS, WALLS, JOISTS:
• NO 14 AND NO 18 BARS 1 1/2"
• NO 11 BAR AND SMALLER 3/4"
b. BEAMS, COLUMNS:
• PRIMARY REINFORCEMENT 1 1/2"
c. TIES, STIRRUPS, SPIRALS 1 1/2"
9. PROVIDE LAP SPLICES AS INDICATED BELOW UNLESS OTHERWISE NOTED IN THE DRAWINGS.

BAR SIZE	SPLICE LENGTH TOP BARS	SPLICE LENGTH OTHER BARS
#3	24"	19"
#4	32"	25"
#5	40"	31"
#6	48"	37"
#7	70"	54"
#8	80"	62"
#9	90"	69"
#10	76"	77"

*TOP BAR CONDITION OCCURS WHERE HORIZONTAL REINFORCEMENT IS PLACED SUCH THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST BELOW THE SPLICE.

- ALL HOOKS SHALL BE "STANDARD" PER ACI SPECIFICATIONS.

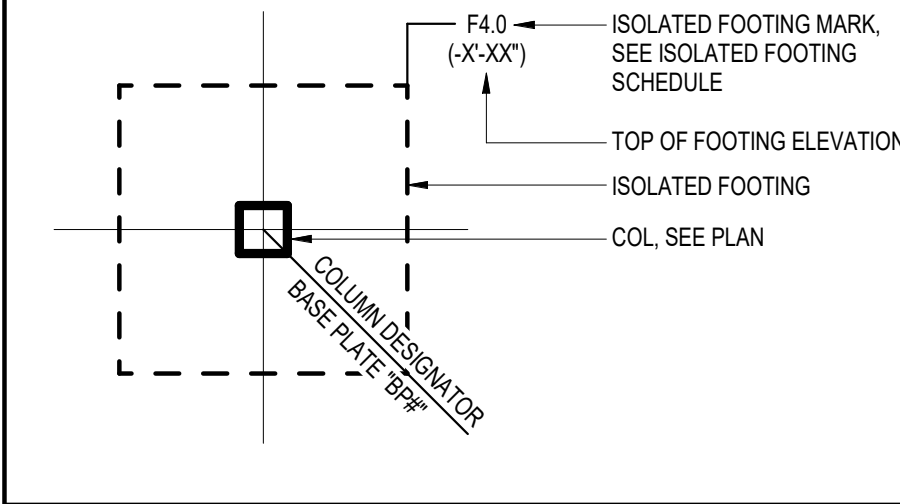
- CONTINUOUS TOP AND BOTTOM BARS SHALL BE SPLICED AS FOLLOWS:
A. TOP BARS: AT MID SPAN
B. BOTTOM BARS: CENTERED OVER SUPPORT

- MECHANICAL COUPLERS CAPABLE OF SUSTAINING 125% OF THE BAR ULTIMATE TENSILE CAPACITY MAY BE USED IN LIEU OF LAP SPLICES.
- CORNER BARS MATCHING HORIZONTAL BARS SHALL BE PROVIDED AT ALL WALL CORNERS AND INTERSECTIONS.

STRUCTURAL STEEL

- ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF AISC 303 "CODE OF STANDARD PRACTICE FOR STEEL BUILDING AND BRIDGES".
- ALL WELDING SHALL BE PERFORMED BY CERTIFIED/QUALIFIED WELDERS AND SHALL CONFORM TO THE LATEST EDITION OF AWS D1.1 "STRUCTURAL WELDING CODE - STEEL".
- ALL BOLTED STEEL CONNECTIONS SHALL UTILIZE HIGH STRENGTH BOLTS IN BEARING-TYPE CONNECTIONS, UNLESS OTHERWISE NOTED. TENSION-CONTROLLED BOLTS (T/C BOLTS) MAY BE USED AT THE ERECTOR'S DISCRETION.
- THERE SHALL BE NO FIELD CUTTING OF STRUCTURAL STEEL MEMBERS WITHOUT THE PRIOR APPROVAL OF THE STRUCTURAL ENGINEER. REFER TO ARCHITECTURAL DRAWINGS FOR MISCELLANEOUS STEEL NOT SHOWN ON STRUCTURAL DRAWINGS.
- ALL STEEL INDICATED ON THE ARCHITECTURAL DRAWINGS TO BE ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) SHALL CONFORM TO THE AESS REQUIREMENTS OF THE AISC CODE OF STANDARD PRACTICE.

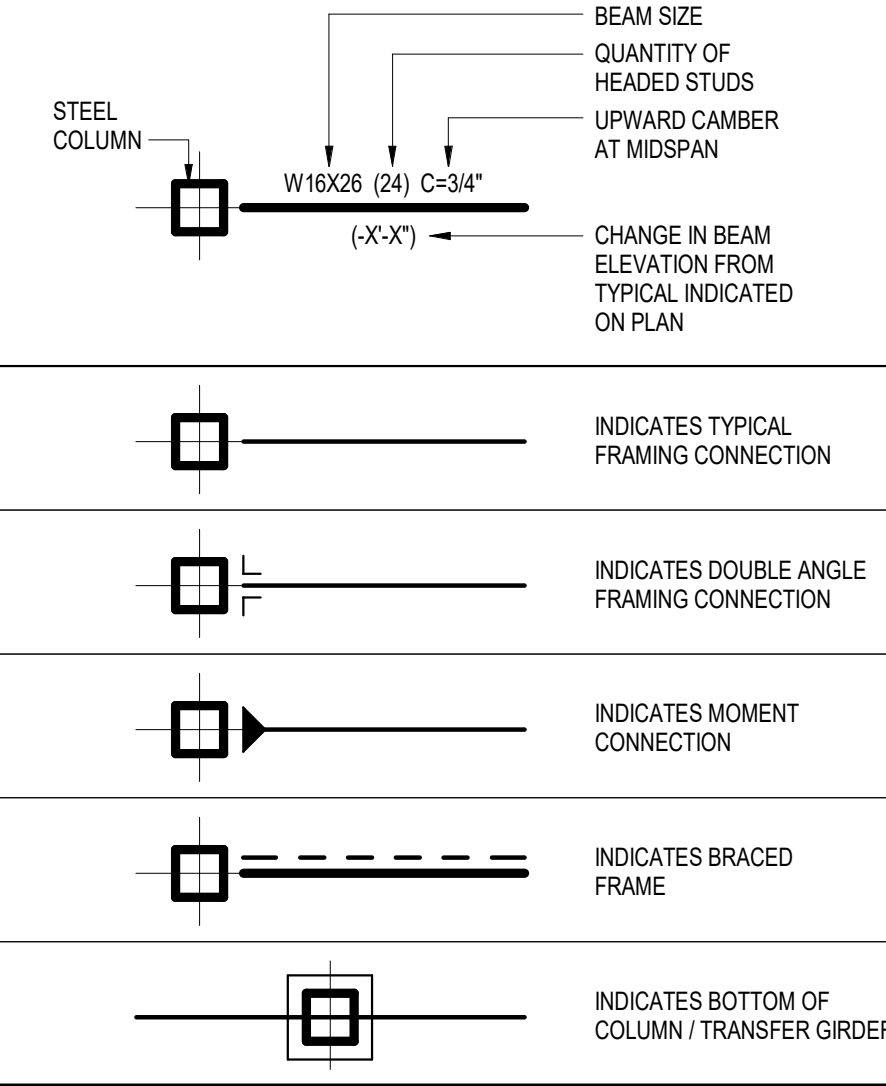
FOUNDATION LEGEND



LIGHT GAUGE METAL FRAMING

- LIGHT GAUGE METAL CONTRACTOR TO DESIGN, DETAIL, FABRICATE, AND ERECT STRUCTURAL LIGHT GAUGE METAL FRAMING IN ACCORDANCE WITH THE AMERICAN IRON AND STEEL INSTITUTE STANDARD FOR COLD-FORMED STEEL FRAMING - GENERAL PROVISIONS AND THE STANDARD FOR COLD FORMED STEEL FRAMING - HEADER DESIGN.
- LIGHT GAUGE METAL CONTRACTOR TO DESIGN, DETAIL, FABRICATE, AND ERECT STRUCTURAL LIGHT GAGE METAL TRUSSES IN ACCORDANCE WITH THE AMERICAN IRON AND STEEL INSTITUTE STANDARD FOR COLD-FORMED STEEL FRAMING - TRUSS DESIGN.
- ALL LIGHT GAUGE MEMBERS AND MEMBER CONNECTIONS SHALL BE DESIGNED AND DETAILED BY THE LIGHT GAUGE METAL CONTRACTOR'S "SPECIALTY ENGINEER". SHOP DRAWINGS AND CALCULATIONS SIGNED AND SEALED BY THE "SPECIALTY ENGINEER" LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED SHALL BE SUBMITTED FOR REVIEW.
- ALL MEMBERS SHALL BE FORMED FROM CORROSION RESISTANT STEEL CORRESPONDING TO THE REQUIREMENTS OF ASTM A1003, STRUCTURAL GRADE, TYPE H. ALL MEMBERS SHALL BE MINIMUM 18 GAUGE, UNLESS OTHERWISE NOTED.
- ALL MEMBERS SHALL BE ZINC COATED MEETING ASTM A653.
- ALL CONNECTIONS FROM LIGHT GAUGE METAL FRAMING TO PRIMARY BUILDING STRUCTURE MEMBERS SHALL BE DESIGNED, DETAILED, AND PROVIDED BY THE LIGHT GAUGE METAL CONTRACTOR.
- COMPONENTS SHALL BE FASTENED WITH SELF-TAPPING SCREWS OR WELDING. SCREWS AND WELDING SHALL BE SUFFICIENT SIZE TO ENSURE THE STRENGTH OF THE CONNECTION. WIRE-TIE JOINTS OF COMPONENTS SHALL NOT BE PERMITTED. ALL WELDS SHALL BE TOUCHED-UP WITH ZINC-RICH PAINT.
- CONNECTIONS OF ALL LIGHT GAUGE FRAMING TO LIGHT GAUGE FRAMING SHALL BE WITH MINIMUM OF TWO (2) #10 SELF TAPPING SHEET METAL SCREWS WITH LOW PROFILE HEAD, UNLESS OTHERWISE NOTED.
- ALL WELDING SHALL BE PERFORMED BY QUALIFIED WELDERS AND SHALL CONFORM TO THE LATEST EDITION OF THE AWS D1.3, STRUCTURAL WELDING CODE - SHEET STEEL.
- SHOP DRAWINGS: SHOW LAYOUT, SPACINGS, SIZES, THICKNESSES, AND TYPES OF LIGHT GAUGE METAL FRAMING. SHOW FABRICATION, FASTENING AND ANCHORAGE DETAILS (INCLUDING MECHANICAL FASTENERS, REIS, ORING CHANNELS, OPENING FRAMING, SUPPLEMENTAL FRAMING, STRAPPING, BRACING, BRIDGING, SPLICES, ACCESSORIES, CONNECTION DETAILS, AND ATTACHMENT TO ADJOINING WORK.
- PROVIDE ADDITIONAL INFORMATION WITH SHOP DRAWING SUBMITTAL AS INDICATED IN PROJECT SPECIFICATIONS.
- STRUCTURAL PERFORMANCE REQUIREMENTS: PROVIDE LIGHT GAUGE METAL FRAMING CAPABLE OF WITHSTANDING DESIGN LOADS WITHIN LIMITS AND UNDER CONDITIONS INDICATED:
A. DESIGN LOADS:
a. DEAD LOADS: WEIGHTS OF MATERIALS AND CONSTRUCTION.
b. LIVE LOADS: AS INDICATED ON DRAWINGS.
c. WIND LOADS: AS INDICATED ON DRAWINGS.
d. SEISMIC LOADS: AS INDICATED ON DRAWINGS.
B. HORIZONTAL DEFLECTION LIMITS FOR WALLS: DESIGN WALL FRAMING SYSTEMS TO WITHSTAND DESIGN LOADS WITHOUT DEFLECTIONS GREATER THAN THE FOLLOWING:
a. EXTERIOR WALL FRAMING AT LOCATIONS WHERE BRICK VENEER IS TO BE LATERALLY SUPPORTED: 1/600 OF THE WALL HEIGHT OR 0.30", WHICHEVER IS SMALLER, UNDER COMPONENT WIND OR SERVICE LEVEL SEISMIC LOADS.
b. EXTERIOR WALL FRAMING AT LOCATIONS WHERE NON-BRITTLE VENEER IS TO BE LATERALLY SUPPORTED: 1/360 OF THE WALL HEIGHT OR 0.50", WHICHEVER IS SMALLER, UNDER COMPONENT WIND OR SEISMIC SERVICE LEVEL SEISMIC LOADS.
C. VERTICAL DEFLECTION LIMITS FOR TRUSSES: DESIGN TRUSSES TO WITHSTAND DESIGN LOADS WITHOUT DEFLECTIONS GREATER THAN THE FOLLOWING:
a. TOTAL LOAD DEFLECTION LIMIT: L/240
b. LIVE LOAD DEFLECTION LIMIT: L/360
c. TOTAL LOAD DEFLECTION LIMIT FOR TRUSSES CARRYING MASONRY: L/600 OR 0.30" MAXIMUM
D. DESIGN FRAMING SYSTEMS TO PROVIDE FOR MOVEMENT OF FRAMING MEMBERS WITHOUT DAMAGE OR OVERSTRESSING, SHEATHING FAILURE, CONNECTION FAILURE, UNDE STRAIN ON FASTENERS AND ANCHORS, OR OTHER DETRIMENTAL EFFECTS WHEN SUBJECT TO A MAXIMUM AMBIENT TEMPERATURE CHANGE OF 120° F.
E. DESIGN FRAMING SYSTEM TO MAINTAIN CLEARANCES AT OPENINGS, TO ALLOW FOR CONSTRUCTION TOLERANCES, AND TO ACCOMMODATE FLOOR AND ROOF FRAMING LIVE LOAD DEFLECTION OF PRIMARY BUILDING STRUCTURE OF PLUS OR MINUS 1.0".
- INTERIOR NON-LOAD BEARING COLD-FORMED PARTITION FRAMING SHALL BE DESIGNED, DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE ARCHITECTURAL SPECIFICATIONS.

STEEL FRAMING SYMBOL LEGEND



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Revision No.	Description	Date
1	ASI 01	01/15/2019
2	ASI 003	02/05/19

Project No.	Date	Drawn
018-0330	09/07/2018	Author

Drawing No.

S000
GENERAL NOTES

IBC SCHEDULE OF SPECIAL INSPECTION SERVICES					
INSPECTION ITEM REQUIRED	FREQUENCY		CODE REFERENCE	REMARKS	
	CONTINUOUS	PERIODIC			
GENERAL					
CONDUCT WEEKLY VISUAL OBSERVATIONS OF THE STRUCTURAL SYSTEMS FOR GENERAL CONFORMANCE TO THE CONSTRUCTION DOCUMENTS AND PREPARE WEEKLY REPORTS OF OBSERVATIONS DESCRIBING WORK PROGRESS AND NON-CONFORMING ITEMS		×			
EARTHWORK					
VERIFY MATERIAL BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY		×			
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL		×			ALL FOOTING AND PILE CAP EXCAVATIONS SHALL BE OBSERVED AND APPROVED PRIOR TO CONCRETE PLACEMENT
PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS		×			TEST EACH SOURCE
VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	×				
OBSERVE PROOF ROLLING OF SUBGRADE PRIOR TO FILL PLACEMENT					
TESTING AND EVALUATION OF IN-PLACE DENSITY OF COMPACTED FILL AS WORK PROGRESSES		×			ONE DENSITY TEST FOR EACH LIFT, DAYS OPERATION, OR 5000 SQ. FT. OF FILL AREA
INSPECT VAPOR RETARDER FOR CONFORMANCE WITH MANUFACTURERS WRITTEN INSTALLATION INSTRUCTIONS		×			
METAL DECK					
VERIFY COMPLIANCE OF MATERIALS (DECK AND ALL DECK ACCESSORIES) WITH CONSTRUCTION DOCUMENTS, INCLUDING PROFILES, MATERIAL, PROPERTIES, AND BASE METAL THICKNESS	×				
DOCUMENT ACCEPTANCE OR REJECTION OF DECK AND DECK ACCESSORIES	×				
VERIFY COMPLIANCE OF DECK AND ALL DECK ACCESSORIES INSTALLATION WITH CONSTRUCTION DOCUMENTS		×			
VERIFY DECK MATERIALS ARE REPRESENTED BY THE MILLS CERTIFICATIONS THAT COMPLY WITH THE CONSTRUCTION DOCUMENTS		×			
DOCUMENT ACCEPTANCE OR REJECTION OF INSTALLATION OF DECK AND DECK ACCESSORIES	×				
OBSERVE WELDING PROCEDURE SPECIFICATIONS (WPS), MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES, MATERIAL IDENTIFICATION (TYPE/GRADE), AND WELDING EQUIPMENT TO BE USED.		×			
OBSERVE USE OF QUALIFIED WELDERS, CONTROL AND HANDLING OF WELDING CONSUMABLES, ENVIRONMENT CONDITIONS (WIND SPEED, MOISTURE, TEMPERATURE), AND WPS FOLLOWED		×			
VERIFY SIZE AND LOCATION OF WELDS, INCLUDING SUPPORT, SIDELAP, AND PERIMETER WELDS		×			
VERIFY WELDS MEET VISUAL INSPECTION CRITERIA		×			
VERIFY REPAIR ACTIVITIES AS APPLICABLE		×			
DOCUMENT ACCEPTANCE OR REJECTION OF WELDS	×				
OBSERVE MANUFACTURER INSTALLATION INSTRUCTIONS, PROPER TOOLS, AND PROPER STORAGE FOR MECHANICAL FASTENERS		×			
VERIFY FASTENERS POSITIONED AS REQUIRED AND INSTALLED IN ACCORDANCE WITH MANUFACTURER INSTRUCTIONS		×			
VERIFY SPACING, TYPE, AND INSTALLATION OF SUPPORT, SIDELAP, AND PERIMETER FASTENERS		×			
VERIFY REPAIR ACTIVITIES AS APPLICABLE		×			
DOCUMENT ACCEPTANCE OR REJECTION OF MECHANICAL FASTENERS	×				

IBC SCHEDULE OF SPECIAL INSPECTION SERVICES					
INSPECTION ITEM REQUIRED	FREQUENCY		CODE REFERENCE	REMARKS	
	CONTINUOUS	PERIODIC			
CONCRETE & REINFORCING STEEL					
INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT PRIOR TO CLOSING OF FORMS AND ARRIVAL OF CONCRETE TO THE JOB-SITE		×	IBC: 1908.4 ACI 318: CH. 20, 25.2, 25.3, 26.6.1-26.6.3		
REINFORCING BAR WELDING:					
a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706		×	AWS D1.4 ACI 318: 26.6.4		
b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"		×			
c. INSPECT ALL OTHER WELDS	×				
OBSERVE & VERIFY PLACEMENT OF EMBEDDED BOLTS & RODS PRIOR TO CONCRETE PLACEMENT	×				
INSPECT ANCHORS CAST IN CONCRETE		×	ACI 318: 17.8.2		
INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS:					
a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY UP, UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	×		ACI 318: 17.8.2.4	SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318, OR OTHER QUALIFICATION PROCEDURES, WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED. SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO COMMENCEMENT OF THE WORK	
b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED ABOVE		×	ACI 318: 17.8.2		
VERIFY USE OF REQUIRED MIX DESIGN		×	IBC: 1904.1, 1904.2, 1908.2, 1908.3 ACI 318: CH. 19, 26.4.3, 26.4.4		
PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	×		IBC: 1908.10 ASTM: C172, C31 ACI 318: 26.4, 26.12	ADDITIONAL CYLINDERS SHALL BE MADE AS NEEDED FOR EARLY FORM REMOVAL. NOTE: TWO 6X12 OR 4X8 CYLINDERS ARE REQUIRED FOR AN ACCEPTABLE TEST.	
SAMPLE CONCRETE SPECIMENS FOR STRENGTH TESTS TO BE PERFORMED IN LAB. A MINIMUM OF FIVE (5) CYLINDERS SHALL BE MADE. TEST TWO AT 7 DAYS AND TWO AT 28 DAYS. THE 5TH CYLINDER SHALL BE HELD IN RESERVE	×			OBTAIN ONE COMPOSITE SAMPLE FOR EACH 100 CUBIC YARDS OR FRACTION THEREOF OF EACH CONCRETE MIX PLACED EACH DAY. WHEN FREQUENCY OF TESTING WILL PROVIDE FEWER THAN FIVE COMPRESSIVE STRENGTH TESTS FOR EACH CONCRETE MIX, TESTING SHALL BE CONDUCTED FROM AT LEAST FIVE RANDOMLY SELECTED BATCHES OR FROM EACH BATCH IF FEWER THAN FIVE ARE USED.	
PERFORM CONCRETE STRENGTH TESTING		×			
MAINTAIN A SPREADSHEET SHOWING DATE, SEQUENTIAL ORDER OF STRENGTH TEST RESULTS, AND INDICATE RUNNING AVERAGE	×		ACI 318 PAR. 6.2		
INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	×		IBC: 1908.6, 1908.7, 1908.8 ACI 318: 26.5		
VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES		×	IBC: 1908.9 ACI 318: 26.5.3-26.5.5		
VERIFY THAT THE NECESSARY DESIGN STRENGTH HAS BEEN REACHED PRIOR TO THE REMOVAL OF FORMS		×			
INSPECT PRESTRESSED CONCRETE FOR:					
a. APPLICATION OF PRESTRESSING FORCES	×		ACI 318: 26.10		
b. GROUTING OF BONDED PRESTRESSING TENDONS	×				
INSPECT ERECTION OF PRECAST CONCRETE MEMBERS AND CONNECTIONS		×	ACI 318: CH. 26.8		
VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS		×	ACI 318: CH. 26.11.2		
INSPECT CONCRETE FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED		×	ACI 318: 26.11.1.2(b)		
VERIFY CORRECT MATERIAL USED, INCLUDING THE USE OF A706 IN WELDED SPLICES, IF ANY		×	AWS: D1.4		
VERIFY FABRICATION/ QUALITY CONTROL PROCEDURES FOR PRECAST CONCRETE MANUFACTURER		×		VERIFY PLANT IS PCI CERTIFIED	
MEASURE FLOOR FLATNESS AND LEVELNESS AS DIRECTED		×			

IBC SCHEDULE OF SPECIAL INSPECTION SERVICES				
INSPECTION ITEM REQUIRED	FREQUENCY		CODE REFERENCE	REMARKS
	CONTINUOUS	PERIODIC		
STRUCTURAL STEEL				
VISIT FABRICATION SHOP TO OBSERVE FABRICATION PROCEDURES		×		ONLY ONE INSPECTION IS REQUIRED UNLESS ON-SITE EVENTS INDICATE FURTHER INSPECTIONS ARE NECESSARY
VERIFY FABRICATOR CERTIFICATION		×		
VERIFY CORRECT STRUCTURAL STEEL MATERIAL DELIVERED TO JOB SITE.		×		
VERIFY WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE	×			
VERIFY MANUFACTURERS CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	×			
VERIFY MATERIAL IDENTIFICATIONS (TYPE/GRADE)		×		
OBSERVE WELDER IDENTIFICATION SYSTEM		×		THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW-STRESS TYPE.
OBSERVE FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY) FOR JOINT PREPARATION, DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL), CLEANLINESS (CONDITION OF STEEL SURFACES), TACKING (TACK WELD QUALITY AND LOCATION), BACKING TYPE AND FIT (IF APPLICABLE)		×		
OBSERVE CONFIGURATION AND FINISH OF ACCESS HOLES		×		
OBSERVE FIT-UP OF FILLET WELDS, DIMENSIONS (ALIGNMENT, GAPS AT ROOT), CLEANLINESS (CONDITION OF STEEL SURFACES), TACKING (TACK WELD QUALITY AND LOCATION)		×		
OBSERVE USE OF QUALIFIED WELDERS		×		
OBSERVE CONTROL AND HANDLING OF WELDING CONSUMABLES (PACKAGING AND EXPOSURE CONTROL)		×		
VERIFY NO WELDING OVER CRACKED TACK WELDS		×		
OBSERVE ENVIRONMENTAL CONDITIONS (WIND SPEED WITHIN LIMITS, PRECIPITATION, AND TEMPERATURE)		×		
VERIFY WPS FOLLOWED (WELDING EQUIPMENT SETTINGS, TRAVEL SPEED, SELECTED WELDING MATERIALS, SHIELDING GAS TYPE/FLOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED [MIN/MAX], PROPER POSITION [F, V, H, OH])		×		
OBSERVE WELDING TECHNIQUES (INTERPASS AND FINAL CLEANING, EACH PASS WITHIN PROFILE LIMITS AND EACH PASS MEETS QUALITY REQUIREMENTS)		×		
VISUALLY INSPECT ALL WELDS FOR SIZE, LENGTH, AND LOCATION OF WELD. PROVIDE CONTINUOUS INSPECTION ON ALL FULL OR PARTIAL PENETRATION WELDS AND FILLET WELDS GREATER THAN 5/16"	×			
PERFORM ULTRASONIC TESTING ON ALL FULL PENETRATION WELDS	×			
VERIFY NO ARC STRIKES EXIST	×			
VISUALLY INSPECT K-AREA, WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES, OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, FOR CRACKS WITHIN 3" OF THE WELD	×			
VERIFY REPAIR ACTIVITY ACCEPTABILITY AS APPLICABLE	×			
DOCUMENT ACCEPTANCE OR REJECTINO OF WELDED JOINTS OR MEMBERS	×			
PERFORM MAGNETIC PARTICLE TESTING ON 20% OF ALL PARTIAL PENETRATION AND FILLET WELDS GREATER THAN 5/16"		×		
PERFORM MAGNETIC PARTICLE TESTING OR PENETRANT TESTING THERMALLY CUT SURFACES OF ACCESS HOLES WHERE THE FLANGE THICKNESS EXCEEDS 2 IN. FOR ROLLED SHAPES, OR WHEN THE WEB THICKNESS EXCEEDS 2 IN. FOR BUILT-UP SHAPES.		×		ANY CRACK SHALL BE DEEMED UNACCEPTABLE REGARDLESS OF THE SIZE OR LOCATION
VERIFY MANUFACTURER'S CERTIFICATIONS FOR FASTENER MATERIALS ARE AVAILABLE	×			
VERIFY FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS		×		
VERIFY PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDEDE FROM THE SHEAR PLANE)		×		
VERIFY PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL		×		

IBC SCHEDULE OF SPECIAL INSPECTION SERVICES					
INSPECTION ITEM REQUIRED	FREQUENCY		CODE REFERENCE	REMARKS	
	CONTINUOUS	PERIODIC			
STRUCTURAL STEEL					
VERIFY CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE PAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS		×			
CONFIRM PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED		×			
VERIFY PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS		×			
VERIFY FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED		×			
VERIFY JOINT BROUGHT TO SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION		×			
VERIFY FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING		×			
VERIFY FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH TEH RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES		×			
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS		×			
OBSERVE AND TEST ALL FIELD APPLIED HEADED STUDS	×			VERIFY CORRECT NUMBER, LOCATION, AND WELDING	
DOCUMENT ACCEPTANCE OR REJECTION OF STEEL ELEMENTS	×				

OPEN-WEB STEEL JOISTS

- ALL JOISTS SHALL BE DESIGNED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE STANDARD SPECIFICATIONS OF THE STEEL JOIST INSTITUTE (SJI).
- JOIST SIZES INDICATED ON PLANS ARE MINIMUMS. JOIST MANUFACTURER SHALL DESIGN AND SUBMIT CALCULATIONS BY A REGISTERED ENGINEER FOR ALL JOISTS, EXCEPT PARALLEL CHORD JOISTS WITH UNIFORM LOADS AND CONTINUOUSLY SUPPORTED COMPRESSION CHORDS PER SJI STANDARD LOAD TABLES. JOIST MANUFACTURER SHALL DESIGN AND SUBMIT CALCULATIONS BY A REGISTERED ENGINEER FOR ALL JOIST GIRDERS. CALCULATIONS SHALL INCLUDE DEFLECTION AND CAMBER REQUIREMENTS.
A. LIVE LOAD DEFLECTIONS SHALL BE LIMITED TO: SPAN/360.
B. TOTAL LOAD DEFLECTIONS SHALL BE LIMITED TO: SPAN/240.
C. ALL JOISTS AND JOIST GIRDERS SHALL BE CAMBERED FOR THE DESIGN DEAD LOAD, UNLESS OTHERWISE NOTED.
D. MANUFACTURER SHALL ADD ADDITIONAL WEB MEMBERS AS REQUIRED AND ADJUST CHORD AND WEB SIZES ACCORDINGLY, BUT SHALL NOT ALTER DEPTH OF JOISTS AND JOIST GIRDERS.
E. DESIGN CALCULATIONS SHALL INCLUDE SUPERIMPOSED LOADS FOR FRAMING SUPPORTED EQUIPMENT. VERIFY SIZE, WEIGHT, AND LOCATION OF EQUIPMENT WITH ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS.
F. JOIST MANUFACTURER SHALL DESIGN ROOF JOISTS AND PROVIDE APPROPRIATE BRIDGING FOR A NET UPLIFT WORKING LOAD OF 25 PSF.
G. JOIST MANUFACTURER SHALL DESIGN ROOF JOISTS AND PROVIDE APPROPRIATE BRIDGING FOR SNOW DRIFT LOADING OF 30 PSF SUPERIMPOSED FOR 7 FEET FROM BUILDING EDGE.
- THE JOIST SUPPLIER SHALL DESIGN FOR LOADS FROM OTHER DISCIPLINES. LOADS SHOWN ON STRUCTURAL PLAN DO NOT INCLUDE ADDITIONAL CAPACITY TO SUPPORT MECHANICAL OR PLUMBING LOADS. JOIST SUPPLIER TO VERIFY ALL BRACE LOADS AND EXTENDED END LOADS NOT SPECIFICALLY SHOWN ON PLANS OR DETAILS. JOIST MANUFACTURER SHALL DESIGN FOR AN ADDITIONAL LOAD OF 1,000 LBS PER JOIST AT ANY POINT ALONG JOIST FOR FUTURE MECHANICAL.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS WITH DESIGN CALCULATIONS SEALED BY A REGISTERED ENGINEER FOR REVIEW PRIOR TO MANUFACTURE. SHOP DRAWINGS AND CALCULATIONS SHALL INCLUDE DETAILS OF ANY OPTIONAL FIELD SPLICES, AND, IF HIGH STRENGTH BOLTS OR FULL PENETRATION WELDS ARE UTILIZED, CONTRACTOR SHALL RETAIN AN INDEPENDENT TESTING LAB TO CERTIFY COMPLIANCE WITH AISC AND AWS SPECIFICATIONS, RESPECTIVELY.
- WHERE CROSS BRIDGING INTERFERES WITH MECHANICAL INSTALLATIONS, REMOVE CROSS BRIDGING AFTER TOTAL DEAD LOAD IS APPLIED AND REPLACE WITH HORIZONTAL ANGLES 2X2X3/16 AT TOP AND BOTTOM CHORDS.
- JOIST MANUFACTURER SHALL DESIGN JOISTS AND JOIST GIRDERS IN ACCORDANCE WITH THE U.L. DESIGN REQUIREMENTS IN ORDER TO ACHIEVE THE FIRE RATING SPECIFIED IN ARCHITECTURAL DRAWINGS.
- JOIST MANUFACTURER SHALL DESIGN ALL NON-TYPICAL JOIST BEARING SHOES.
- PROVIDE BORROM CHORD CEILING EXTENSIONS WHERE REQUIRED BY ARCHITECTURAL DETAILING, OR AS NOTED.

STRUCTURAL ABBREVIATIONS

AE	AIR ENTRAINING	LH	LEFT HAND
AFF	ABOVE FINISHED FLOOR	LL	LIVE LOAD
AHU	AIR HANDLING UNIT	LLH	LONG LEG HORIZONTAL
ALT	ALTERNATE	LLV	LONG LEG VERTICAL
APPROX	APPROXIMATE(LY)	LVL	LAMINATED VENEER LUMBER
ARCH	ARCHITECTURAL)	MAX	MAXIMUM
B	BOTTOM OF BUILDING	MECH	MECHANICAL
BLDG	BUILDING	MEP	MECHANICAL, ELECTRICAL, PLUMBING
BM	BEAM	MFR	MANUFACTURER
BOT	BOTTOM	MIN	MINIMUM
BRG	BEARING	MSC	MISCELLANEOUS
C	COMPRESSION	NA	NOT APPLICABLE
CA	CAISSON	NO, #	NUMBER
CI	CAST-IN-PLACE	NTS	NOT TO SCALE
CJ	CONTROL JOINT	OC	ON CENTER
CL	CENTERLINE	OCEN	ON CENTER EACH WAY
CLR	CLEAR	OD	OUTSIDE DIAMETER
CMU	CONCRETE MASONRY UNIT	OH	OPPOSITE HAND
COL	COLUMN	PEMB	PRE-ENGINEERED METAL BUILDING
CONC	CONCRETE	PJF	PREMOLDED JOINT FILLER
CONN	CONNECTION	PL	PLATE
CONST	CONSTRUCTION	PLF	POUNDS PER LINEAR FOOT
CONT	CONTINUE(D)(OUS)	PSF	POUND PER SQUARE FOOT
DBA	DEFORMED BAR ANCHOR	PSI	POUND PER SQUARE INCH
DBL	DOUBLE	PT	POST TENSIONED)
DET	DETAIL	QTY	QUANTITY
DIA	DIAMETER	R	RADIUS
DL	DEAD LOAD	REINF	REINFORCE(D)
DP	DRILLED PIER	REV	REVISED/REVISION
DWG	DRAWING	RH	RIGHT HAND
EA	EACH	RO	ROUGH OPENING
ECC	ECCENTRICITY	RTU	ROOF TOP UNIT
EJ	EACH FACE	SF	SQUARE FOOT
EF	EXPANSION JOINT	SIM	SIMILAR
ELEV	ELEVATION	SPEC	SPECIFICATION
EOR	ENGINEER OF RECORD	SS	STAINLESS STEEL
EQ	EQUAL	STD	STANDARD
EQUIP	EQUIPMENT	T	TENSION
EW	EACH SIDE	T&B	TOP AND BOTTOM
EWEF	EACH WAY EACH FACE	T&G	TONGUE AND GROVE
FF	FINISHED FLOOR	T/	TOP OF
FND	FOUNDATION	TBD	TO BE DETERMINED
FTG	FEET (FOOT)	TYP	TYPICAL
GA	GAUGE	UON	UNLESS OTHERWISE NOTED
GALV	GALVANIZED	V	SHEAR
GB	GRADE BEAM	VERT	VERTICAL
GL	GLUE LAMINATE	VIF	VERIFY IN FIELD
HORZ	HORIZONTAL	W/	WITH
HS	HEADED STUD	WO	WITHOUT
ID	INSIDE DIAMETER	WG	WORKABLE GAGE
K	KIP (1000 POUNDS)	WP	WORKING POINT
KLF	KIPS PER LINEAR FOOT	WWR	WELDED WIRE REINFORCEMENT
LB, #	POUNDS		

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1	ASI 01	01/15/2019
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Drawing No.

S001

**SPECIAL INSPECTIONS,
ABBREVIATIONS, AND
GENERAL NOTES**

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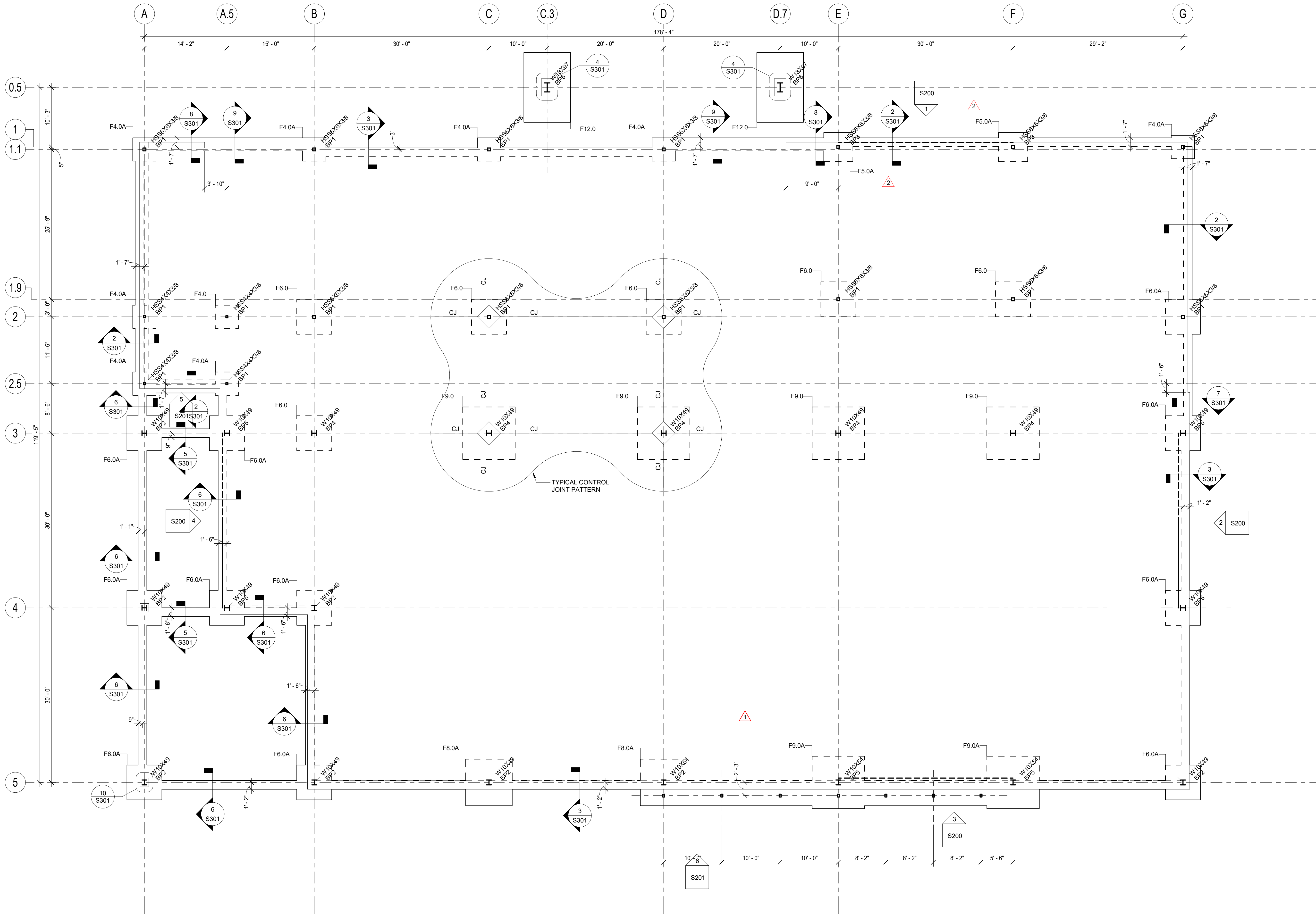
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Revision No.	Description	Date
1	ASI 01	01/15/2019
2	ASI 002	01/22/19
3	ASI 003	02/05/19

Project No.	Date	Drawn
018-0330	09/07/2018	CJC

Drawing No.

S100
FOUNDATION PLAN



ISOLATED FOOTING SCHEDULE

TYPE	LENGTH	WIDTH	THICKNESS (INCHES)	REINFORCING
F4.0	4'-0"	4'-0"	16"	(5) #5 BOTTOM EW
F4.0A	4'-0"	4'-0"	30"	(5) #5 TOP AND BOTTOM EW
F5.0A	5'-0"	5'-0"	30"	(6) #5 TOP AND BOTTOM EW
F6.0	6'-0"	6'-0"	16"	(7) #5 BOTTOM EW
F6.0A	6'-0"	6'-0"	30"	(7) #5 TOP AND BOTTOM EW
F8.0A	8'-0"	8'-0"	30"	(10) #5 TOP AND BOTTOM EACH WAY
F9.0	9'-0"	9'-0"	18"	(12) #5 TOP AND BOTTOM EW
F9.0A	9'-0"	9'-0"	30"	(12) #5 TOP AND BOTTOM EW
F12.0	12'-0"	8'-0"	30"	(12) #6 TOP AND BOTTOM EW

PLAN NOTES:

- TOP OF SLAB AND REFERENCE ELEVATION = 100'-0" = CIVIL ELEVATION = 1000.00' UNLESS OTHERWISE NOTED BY A (+) OR (-) FROM THIS ELEVATION.
- 5" THICK SLAB ON GRADE ON VAPOR RETARDER ON 6" GRANULAR FILL. REINFORCE W/ #4 @ 16" EACH WAY, CENTERED IN SLAB.
- TOP OF FOOTING ELEVATION TYPICALLY (-1'-0").
- TOP OF GRADE BEAM ELEVATION TYPICALLY (-1'-0").
- CONTRACTOR TO CONFIRM EDGE OF SLAB DIMENSIONS WITH ARCHITECTURE.
- PROVIDE STOOP PER TYPICAL STOOP DETAIL ON SHEET S300. CONTRACTOR TO COORDINATE STOOP SIZE, LOCATION, AND QUANTITY W/ ARCHITECTURE.

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Revision No.	Description	Date
	ASI 01	01/15/2019
	ASI 005	03/20/19

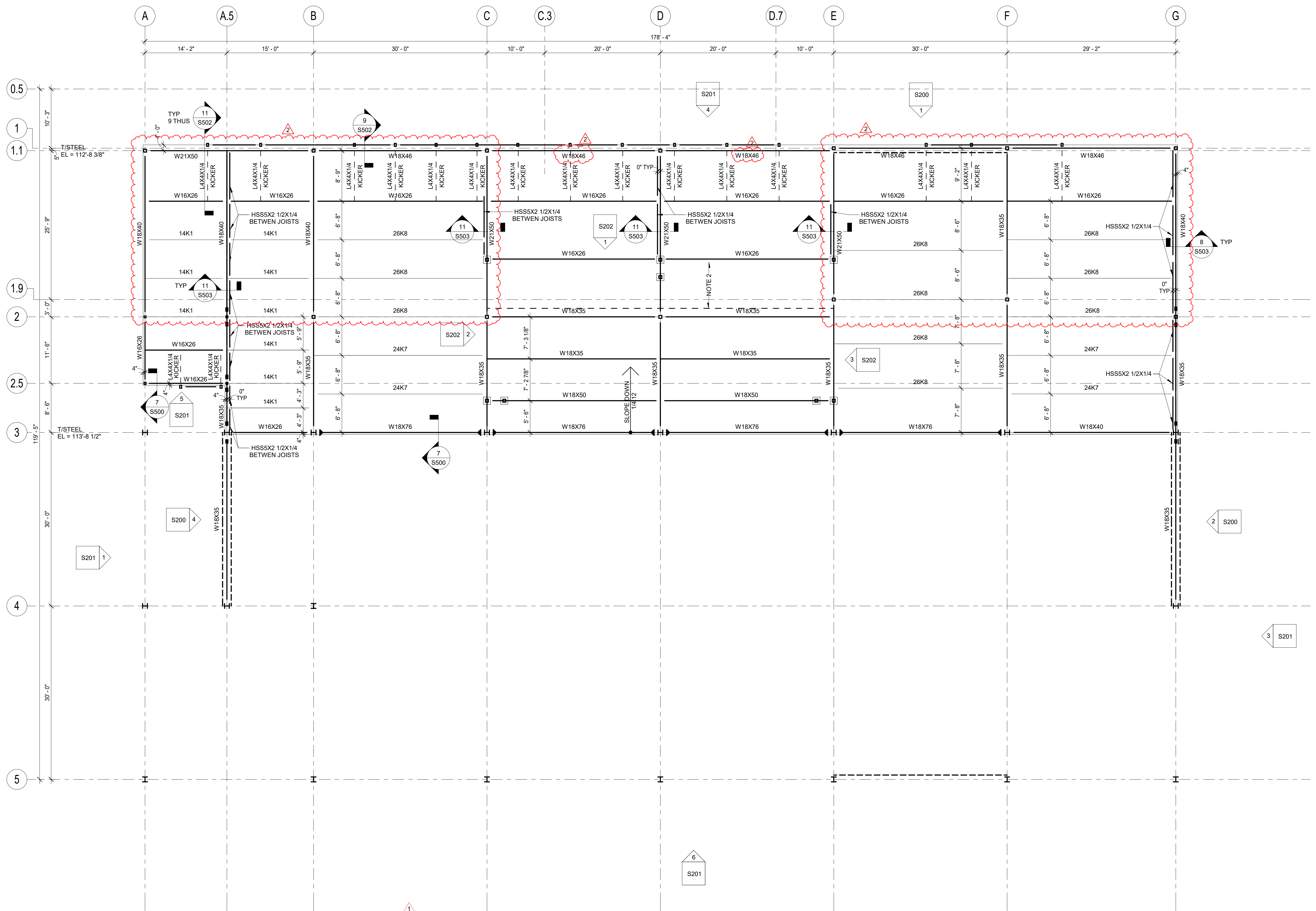
Project No.	Date	Drawn
018-0330	09/07/2018	Author

Drawing No.

S101

ER ROOF FRAMING
PLAN

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PLAN NOTES:

1. DECK BEARING AND REFERENCE ELEVATION = 113'-9" UNLESS OTHERWISE NOTED BY A (+) OR (-) FROM THIS ELEVATION.
2. INDICATES DIRECTION OF SPAN OF 3" - 20 GA (GALV) METAL ROOF DECK. ATTACH DECK TO STRUCTURE USING 5/8" PUDDLE WELDS IN A 2/4" PATTERN. FASTEN SIDE LAPS WITH #10 TEK SCREWS AT 12". AT CONTRACTORS OPTION DECK ATTACHMENT WITH EQUIVALENT OR GREATER DIAPHRAGM CAPACITY MAY BE SUBMITTED FOR ENGINEER REVIEW.

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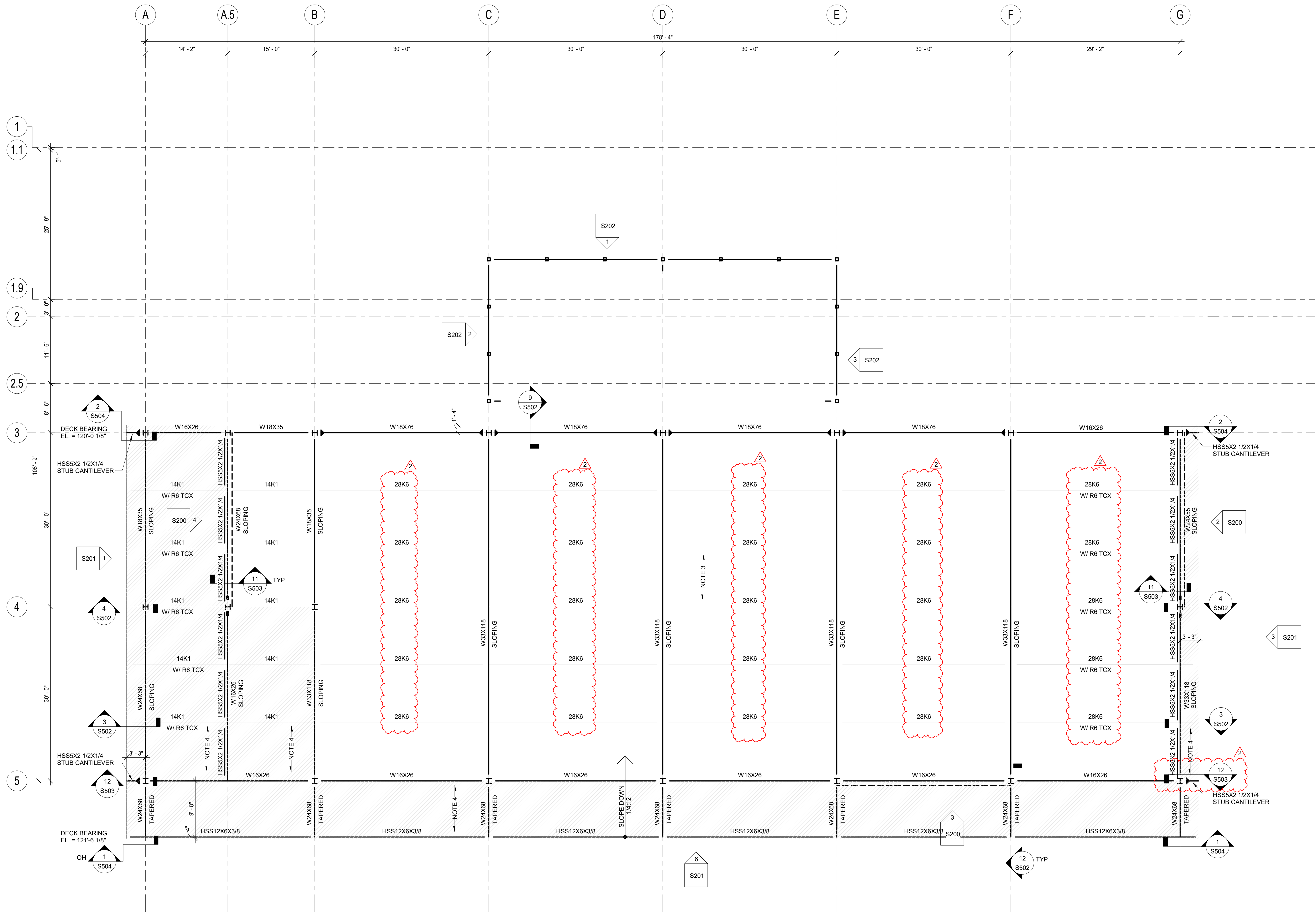
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Revision No.	Description	Date
	ASI 01	01/15/2019
	ASI 003	02/05/19



Project No.	Date	Drawn
018-0330	09/07/2018	Author
Drawing No.		

S102
PPER ROOF FRAMING
PLAN

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PLAN NOTES:

1. DECK BEARING AND REFERENCE ELEVATION = AS NOTED ON PLAN.
2. TOP OF STEEL ELEVATION TYPICALLY = $(-0' - 2 \frac{1}{2}')$.
3.  INDICATES DIRECTION OF SPAN OF 3' - 20 GA (GALV) ACOUSTIC METAL ROOF DECK. ATTACH DECK TO STRUCTURE USING 5/8" PUDDLE WELDS IN A 24/4 PATTERN. FASTEN SIDE LAPS WITH #10 TEK SCREWS AT 12". AT CONTRACTORS OPTION DECK ATTACHMENT WITH EQUIVALENT OR GREATER DIAPHRAGM CAPACITY MAY BE SUBMITTED FOR ENGINEER REVIEW.
4.  INDICATES DIRECTION OF SPAN OF 3' - 20 GA (GALV) METAL ROOF DECK. ATTACH DECK TO STRUCTURE USING 5/8" PUDDLE WELDS IN A 24/4 PATTERN. FASTEN SIDE LAPS WITH #10 TEK SCREWS AT 12". AT CONTRACTORS OPTION DECK ATTACHMENT WITH EQUIVALENT OR GREATER DIAPHRAGM CAPACITY MAY BE SUBMITTED FOR ENGINEER REVIEW.

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Project No. 018-0330	Date 09/07/2018	Drawn Author
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Drawing No.

S103

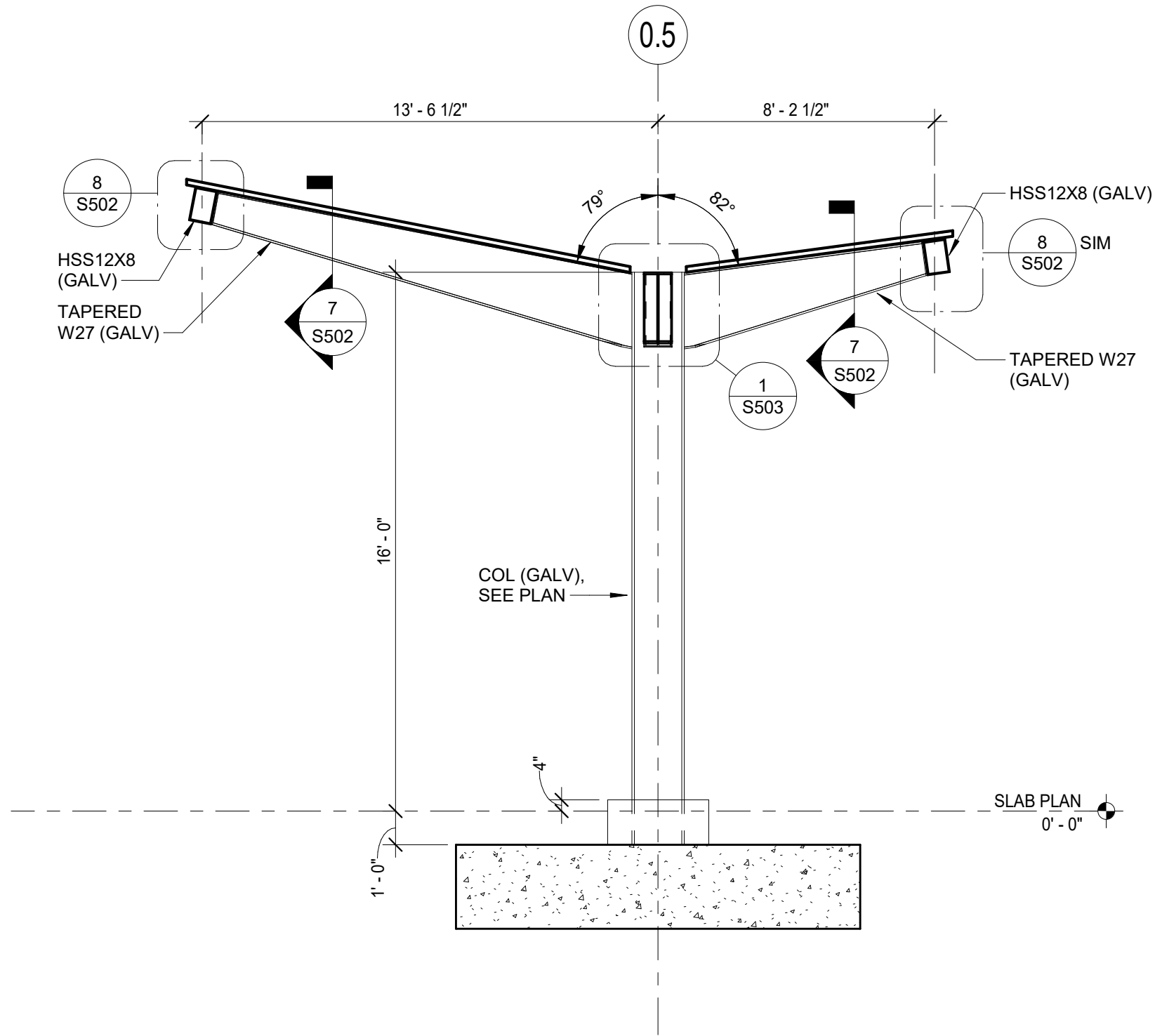
**CANOPY FRAMING PLAN
AND DETAILS**

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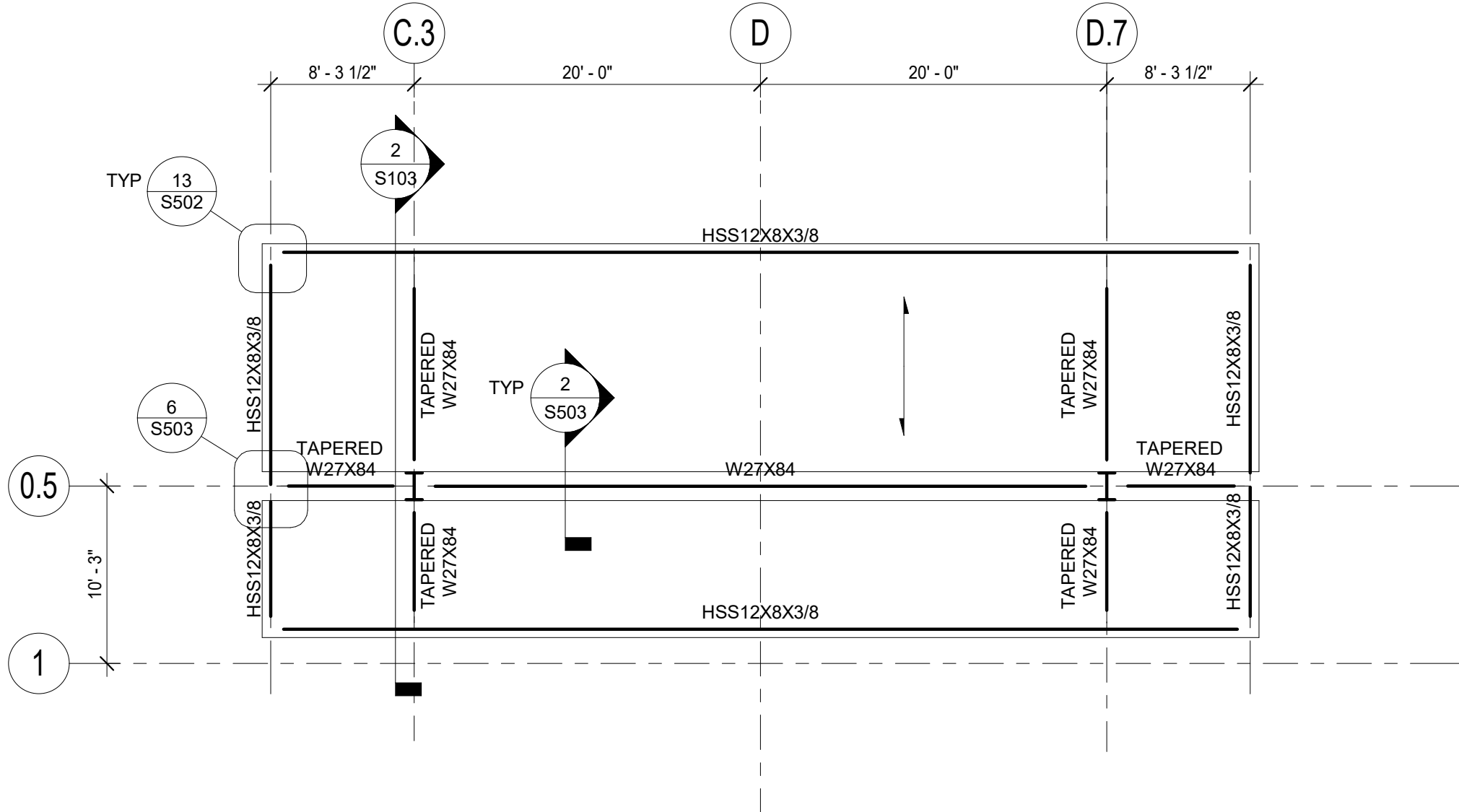
3 CANOPY ISOMETRIC

SCALE =



2 CANOPY SECTION

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



1 CANOPY ROOF FRAMING PLAN

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

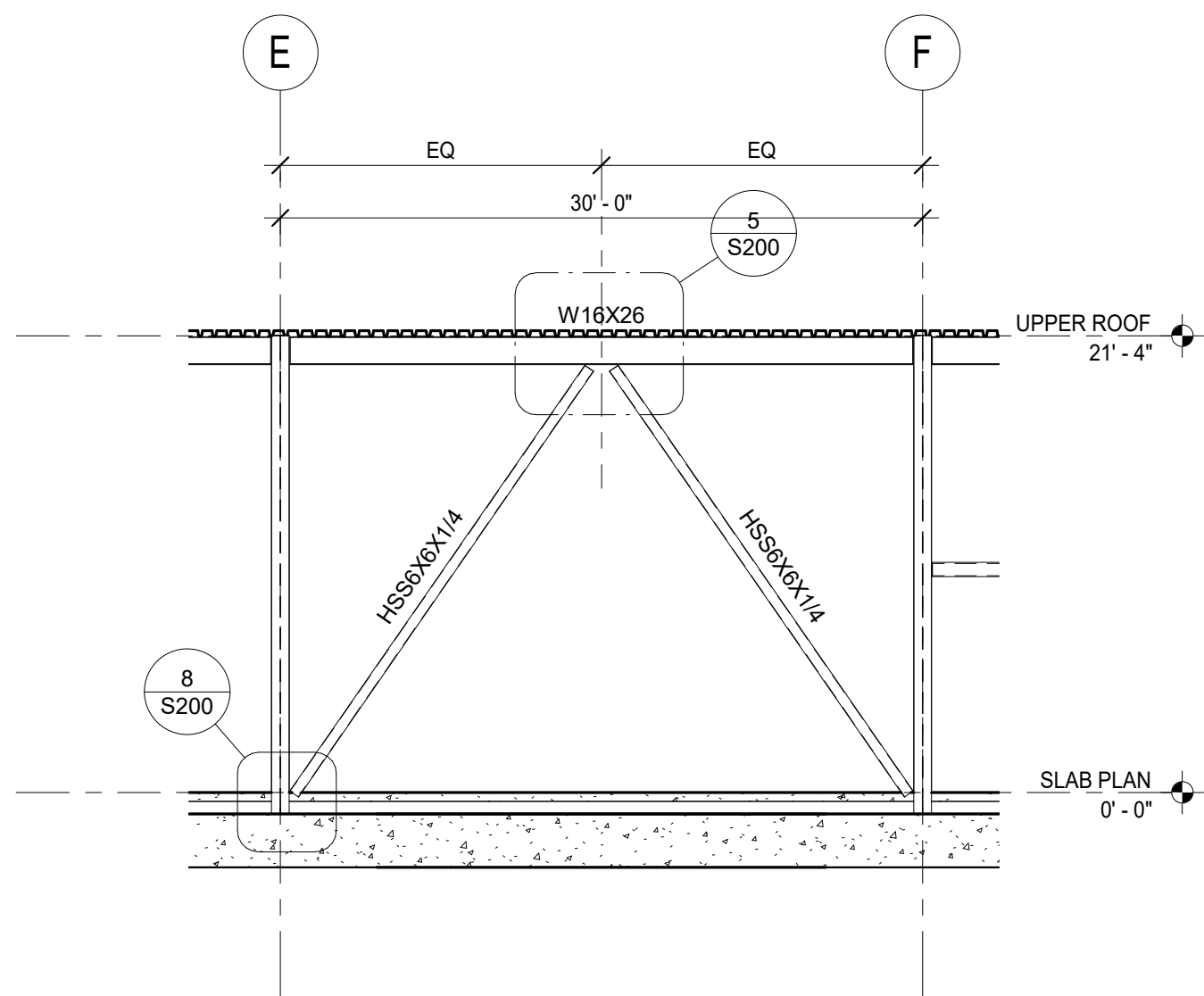
PLAN NOTES:

1. TOP OF STEEL AND REFERENCE ELEVATION VARIES,SEE ELEVATIONS.

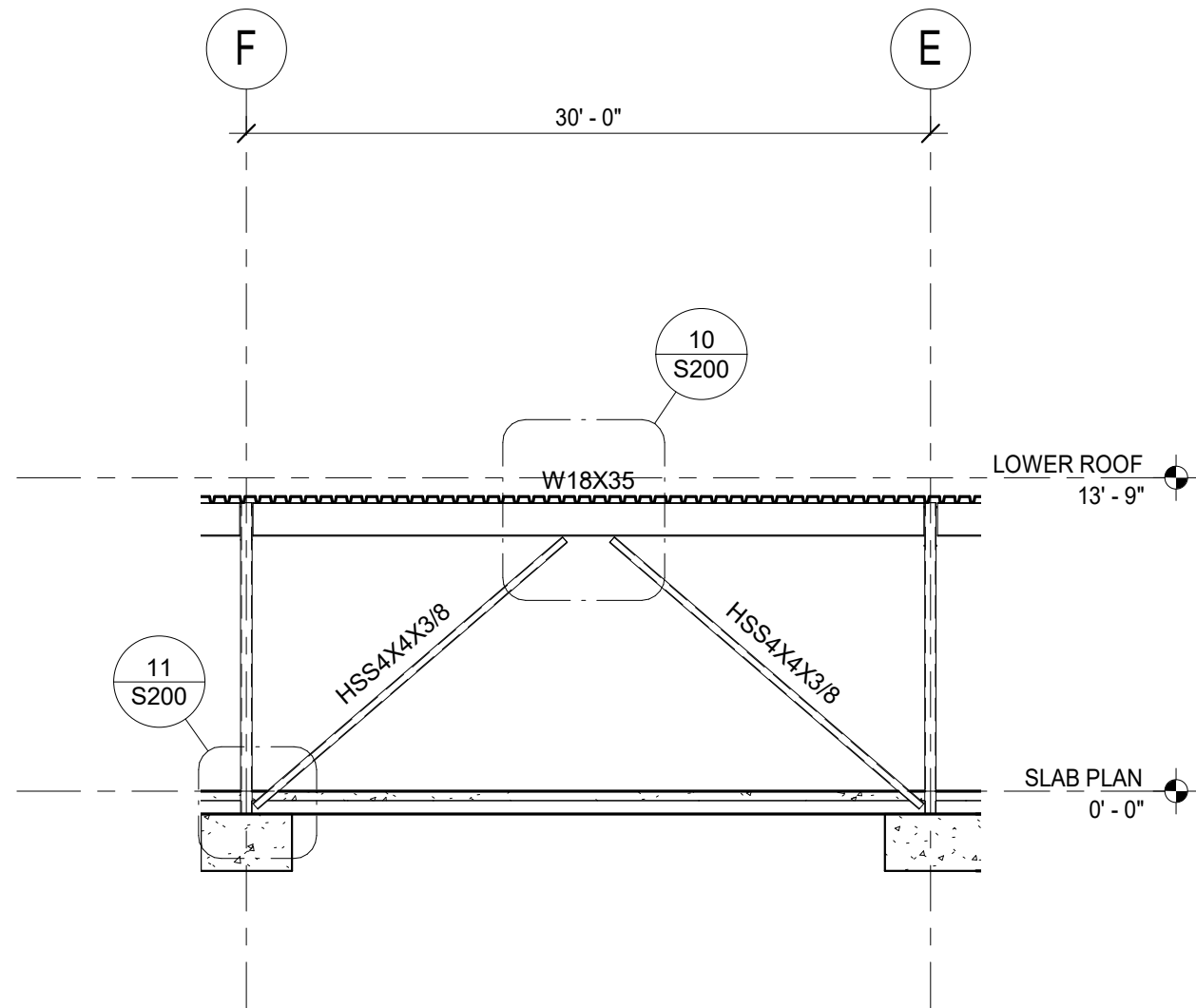
2. INDICATES DIRECTION OF SPAN OF 3 1/2" - 18 GA (GALV) DOVETAIL METAL DECK. ATTACH DECK TO STRUCTURAL STEEL USING 5/8" PUDDLE WELDS IN A 24/3 PATTERN. FASTEN SIDE LAPS WITH #10 TEK SCREWS AT 12". AT CONTRACTORS OPTION DECK ATTACHMENT WITH EQUIVALENT OR GREATER DIAPHRAGM CAPACITY MAY BE SUBMITTED FOR ENGINEER REVIEW.

3. ALL STEEL TO BE HOT DIP GALVANIZED.

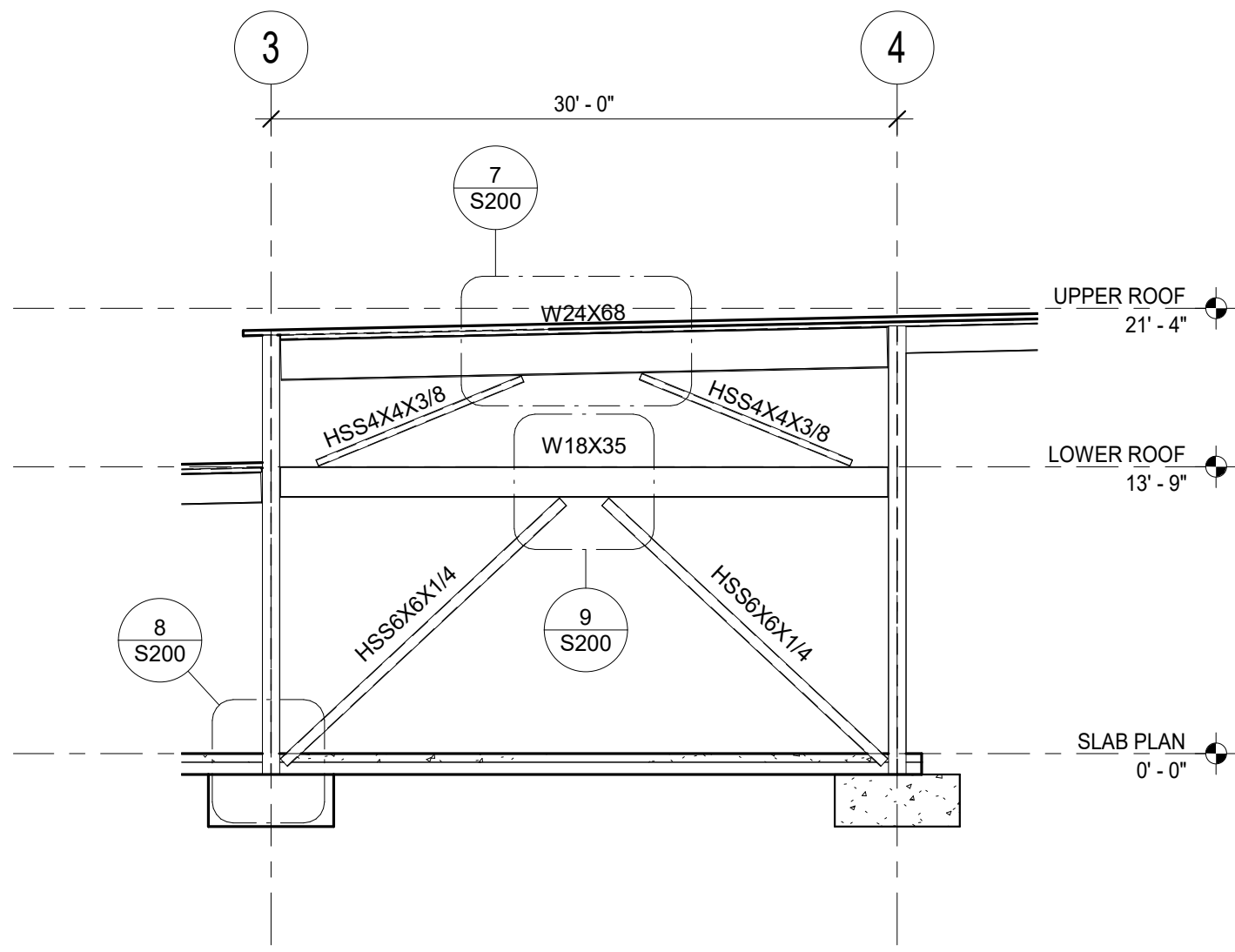
4. ALL STEEL TO BE AESS-2.



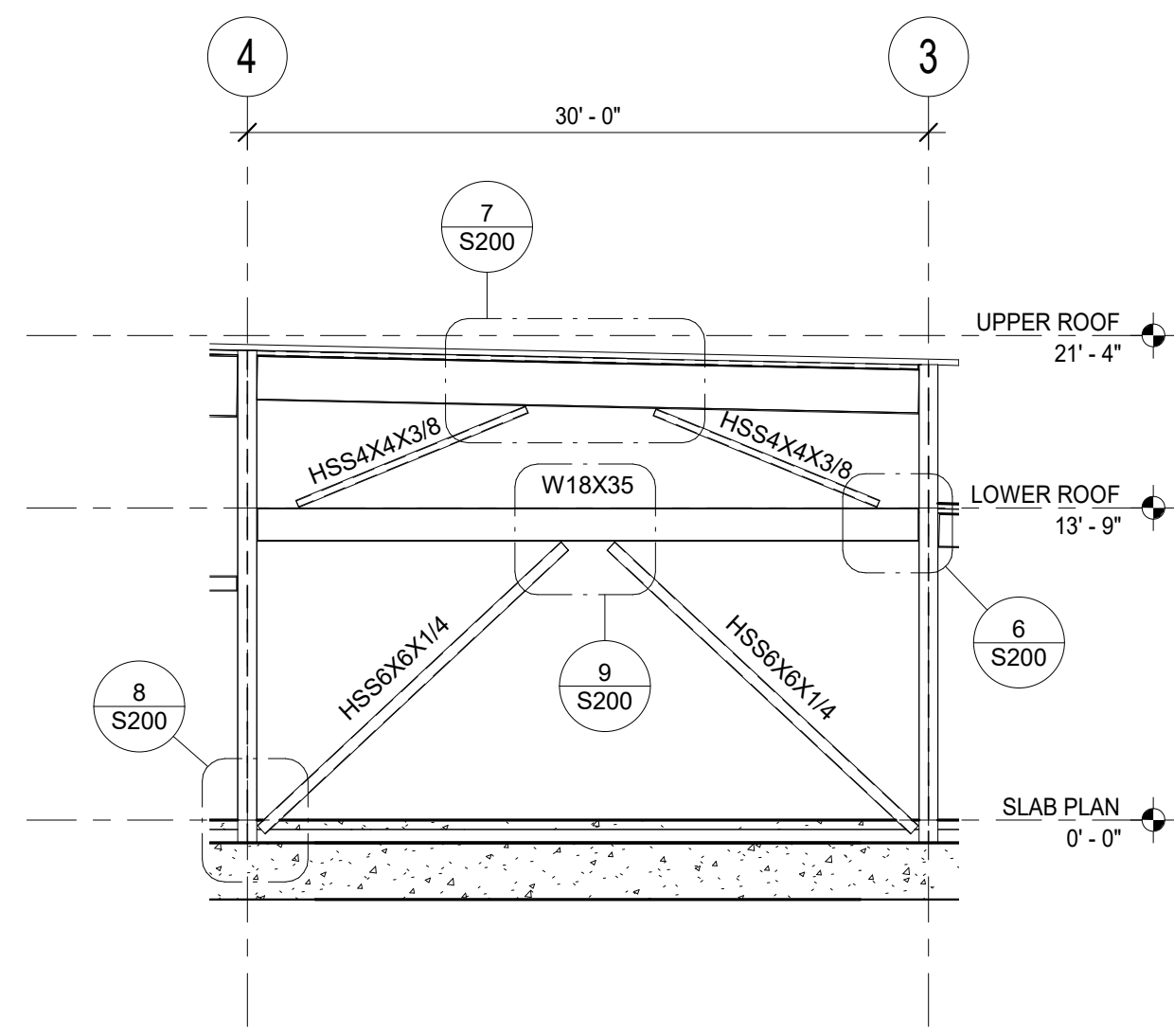
3 BRACED FRAME ELEVATION ALONG GRID 5
SCALE = 1/8" = 1'-0"



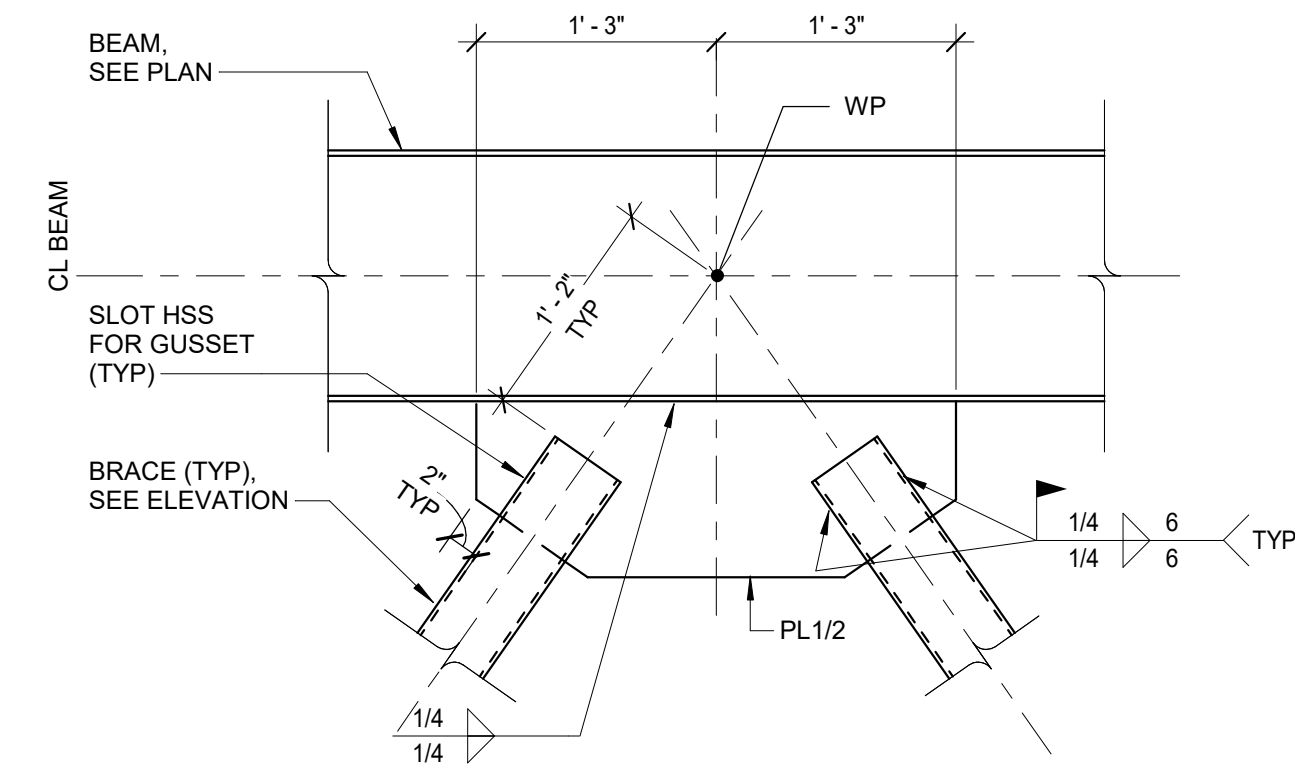
1 BRACED FRAME ELEVATION ALONG GRID 1
SCALE = 1/8" = 1'-0"



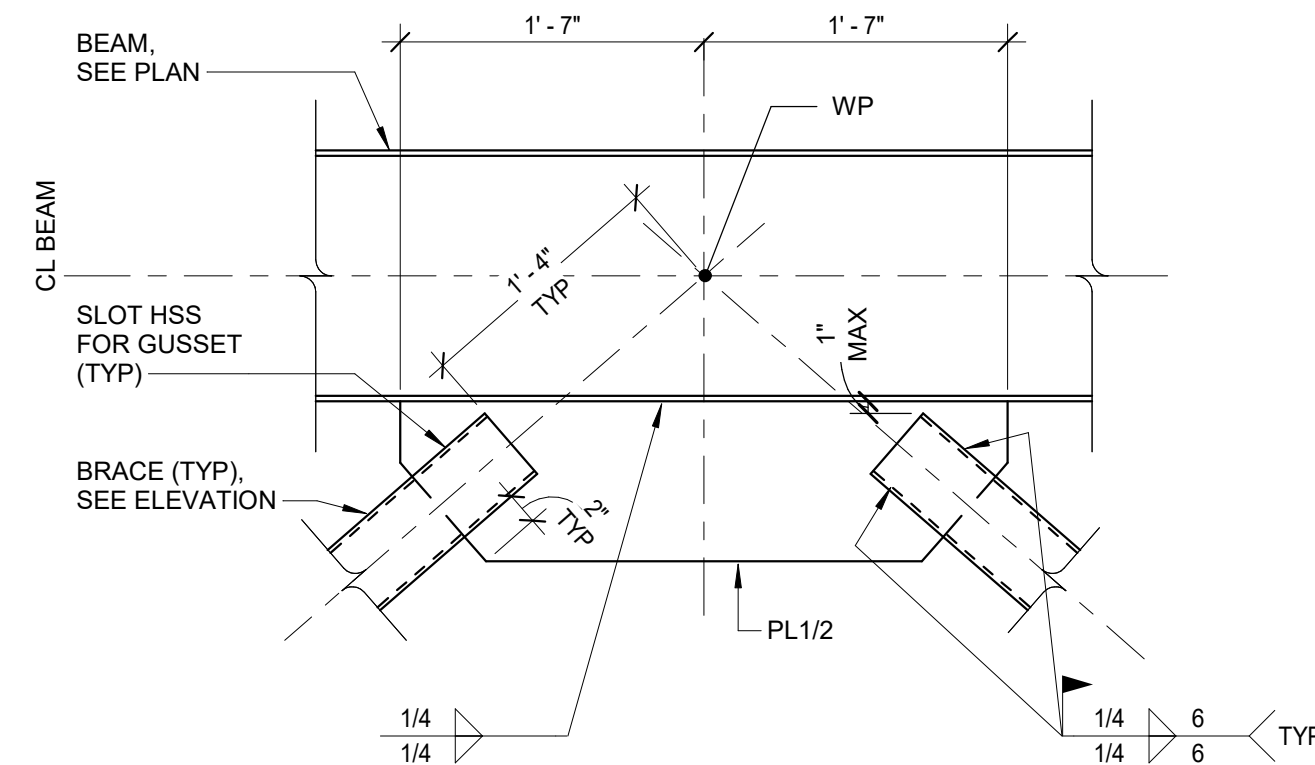
4 BRACED FRAME ELEVATION ALONG GRID A.5
SCALE = 1/8" = 1'-0"



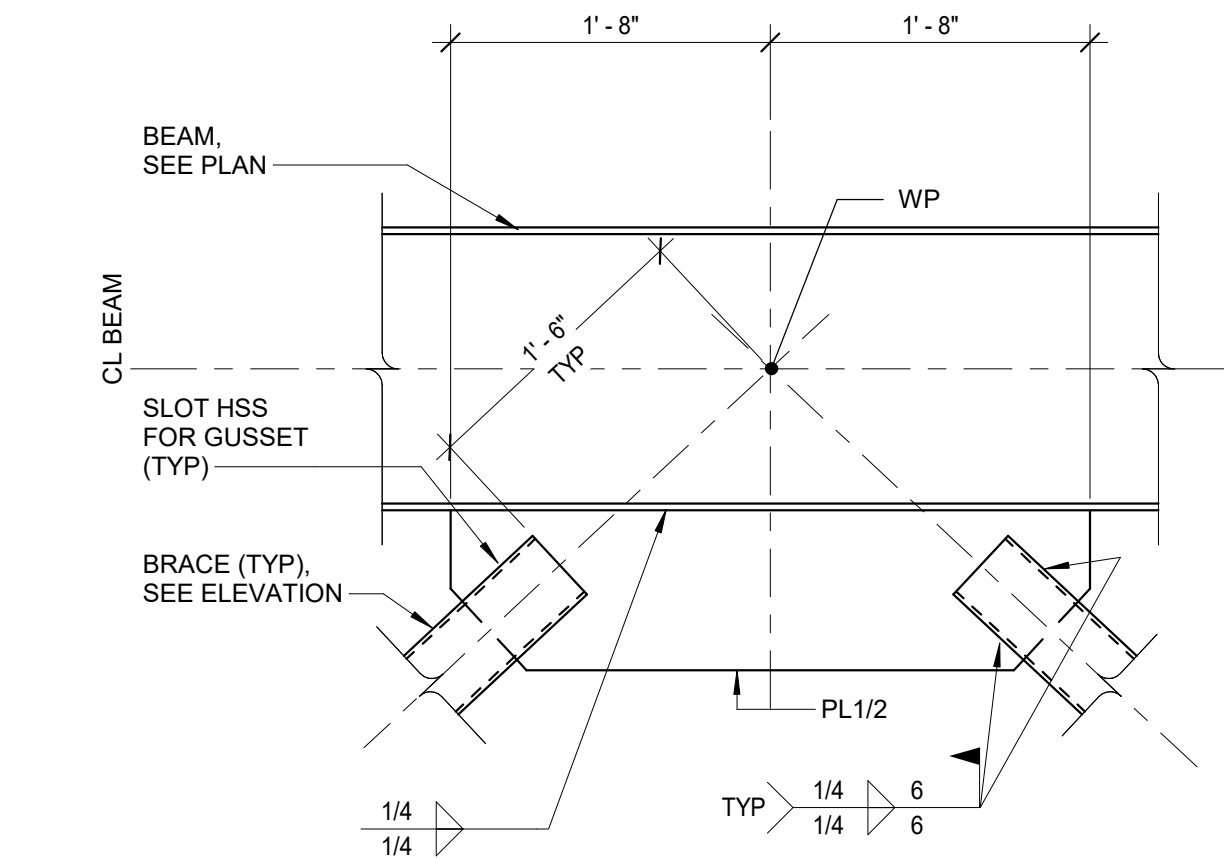
2 BRACED FRAME ELEVATION ALONG GRID G
SCALE = 1/8" = 1'-0"



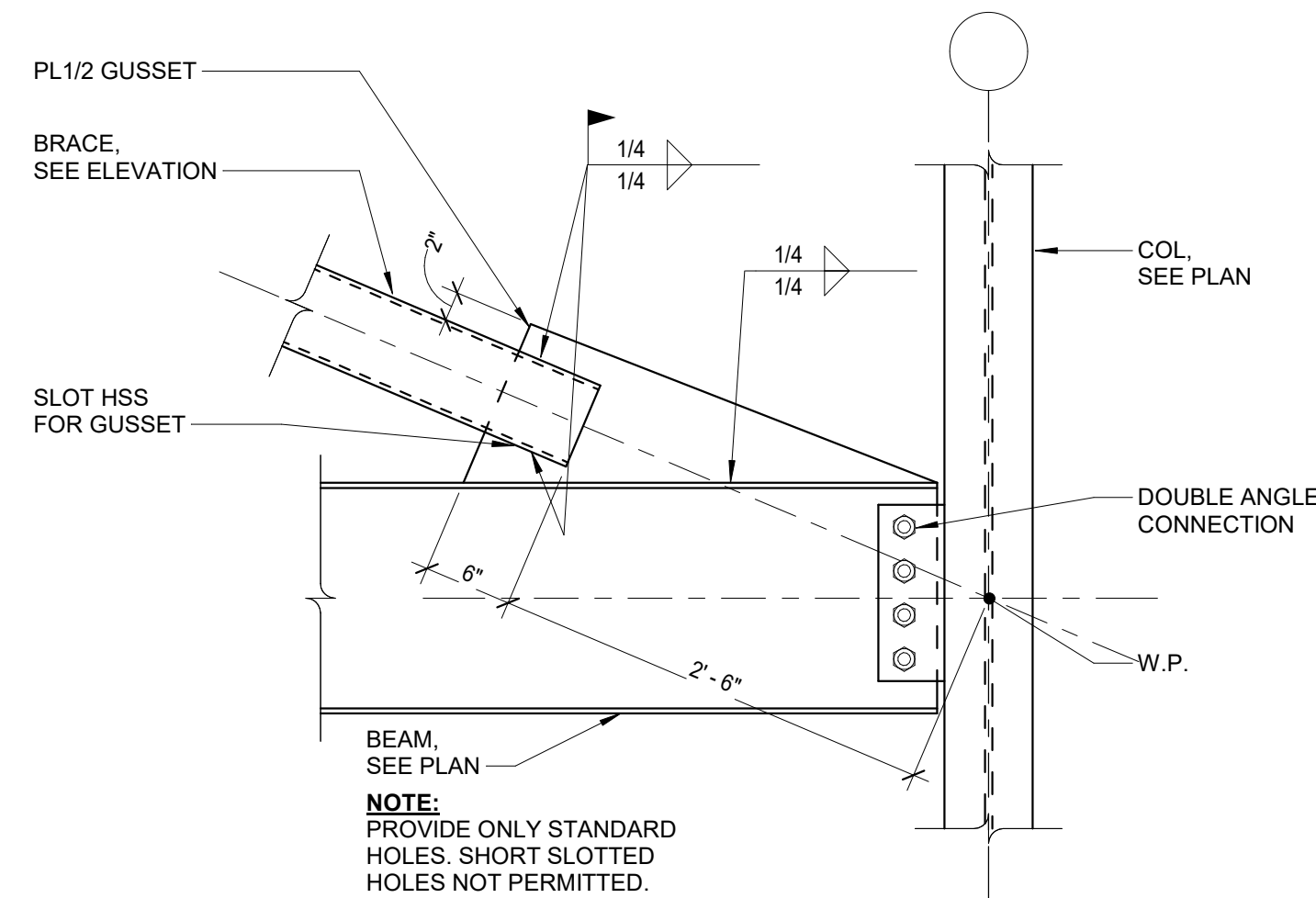
5 CHEVRON BRACE CONNECTION
SCALE = 1" = 1'-0"



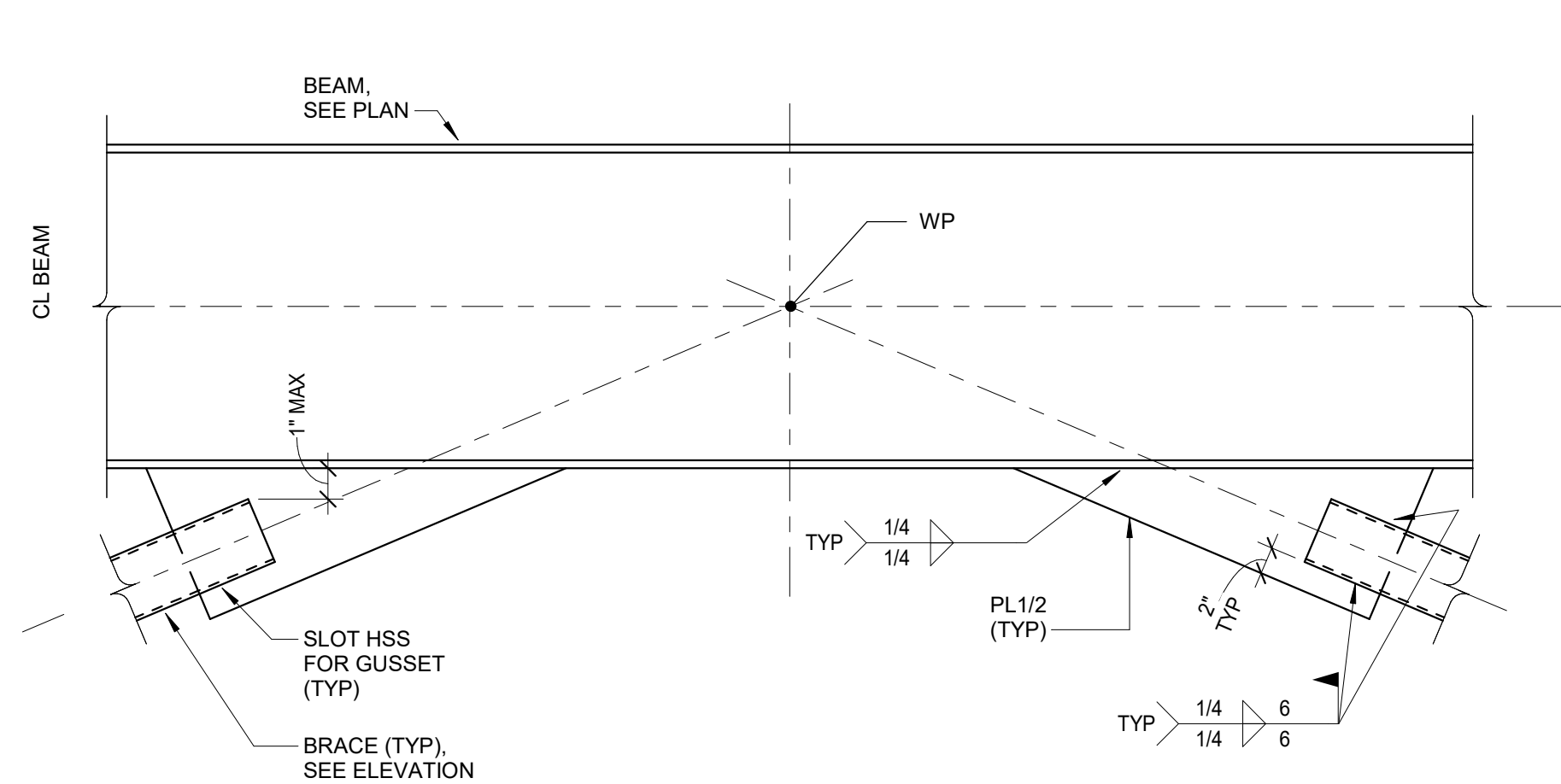
10 WIDE CHEVRON CONNECTION
SCALE = 1" = 1'-0"



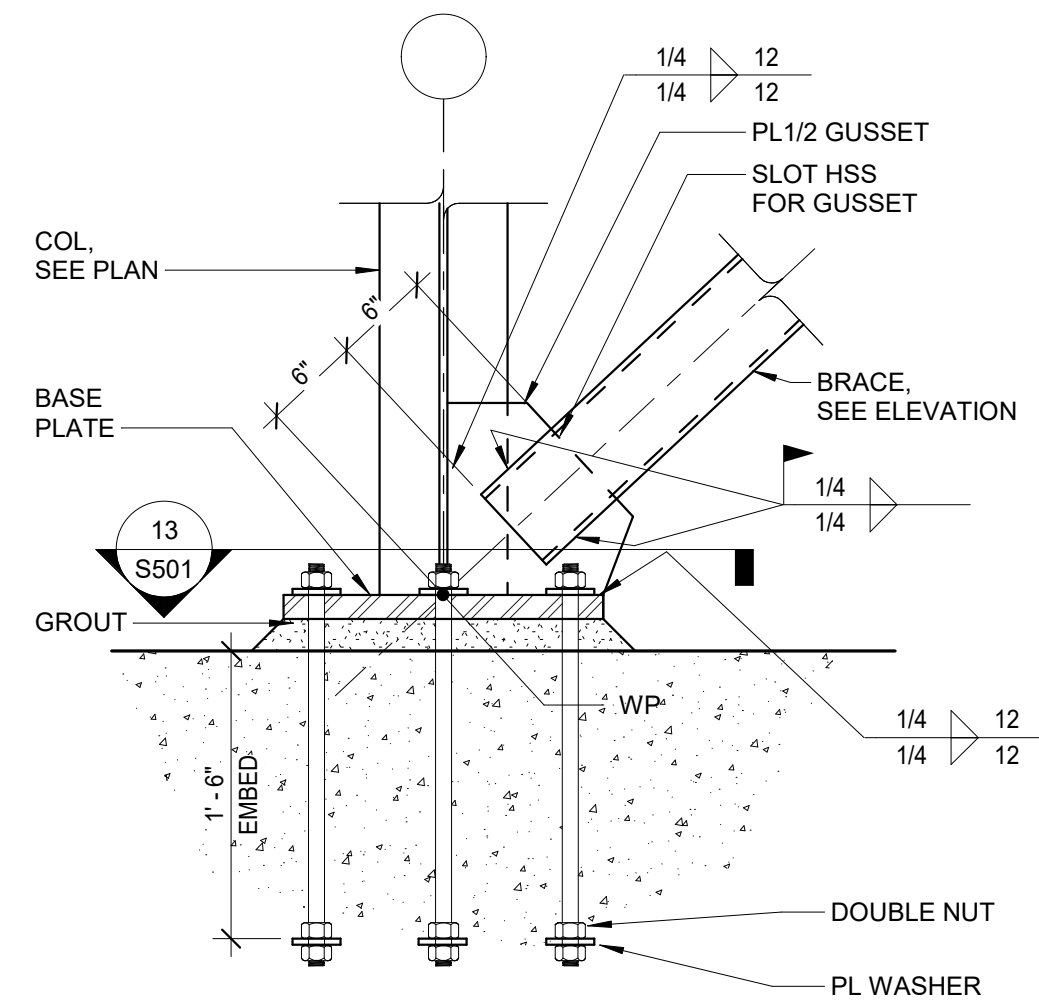
9 SECTION
SCALE = 1" = 1'-0"



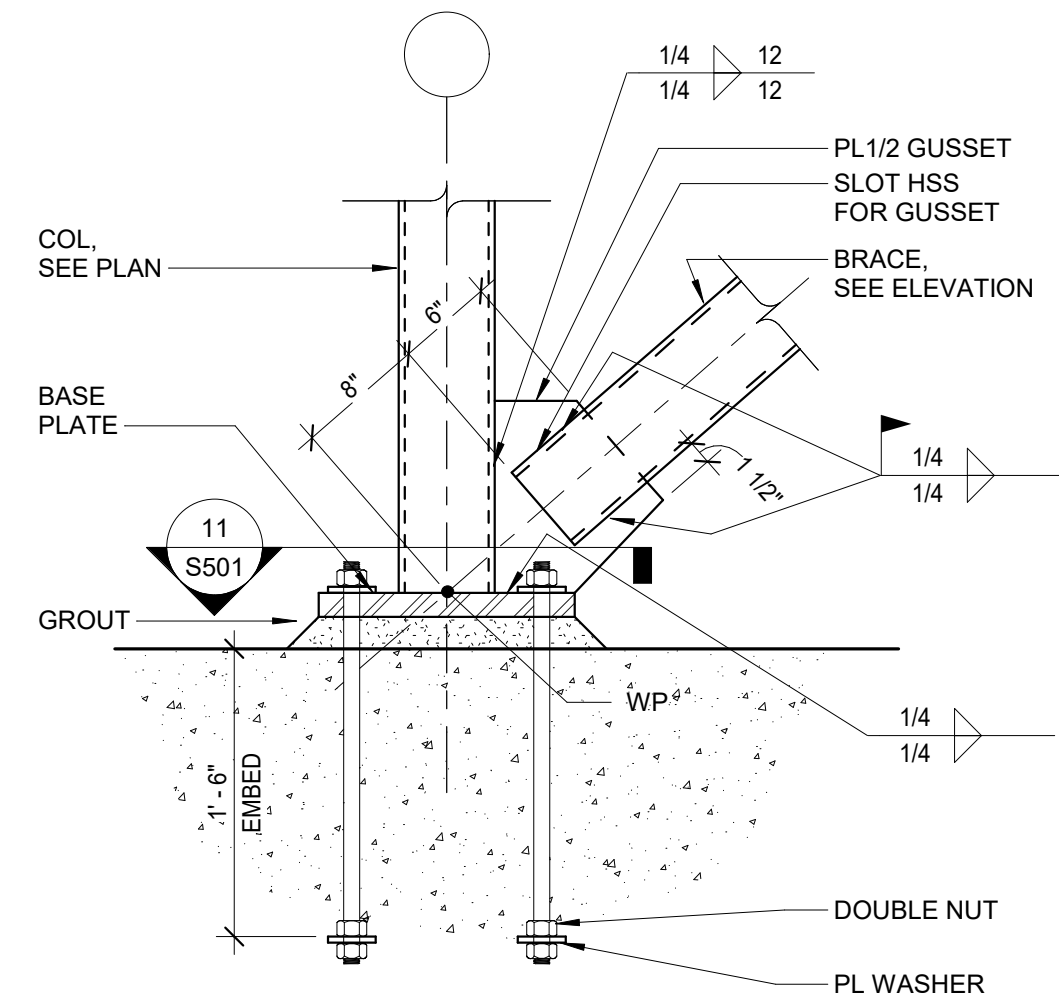
6 SECTION
SCALE = 1" = 1'-0"



7 SHALLOW CHEVRON CONNECTION
SCALE = 1" = 1'-0"



8 SECTION
SCALE = 1" = 1'-0"



11 SECTION
SCALE = 1" = 1'-0"

**SAPP
DESIGN
ARCHITECTS**

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Springfield, MO 65804 417.877.9600

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helix.

1629 Walnut
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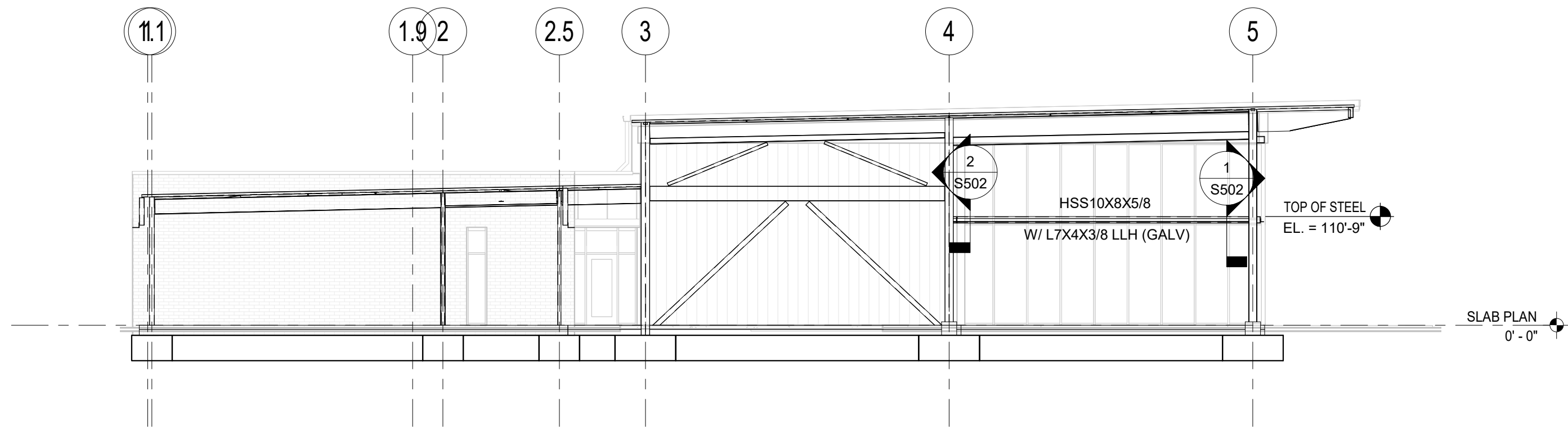
Revision No.	Description	Date
A	FOR CLIENT REVIEW	09/07/2018

Project No.	Date	Drawn
018-0330	09/07/2018	Author

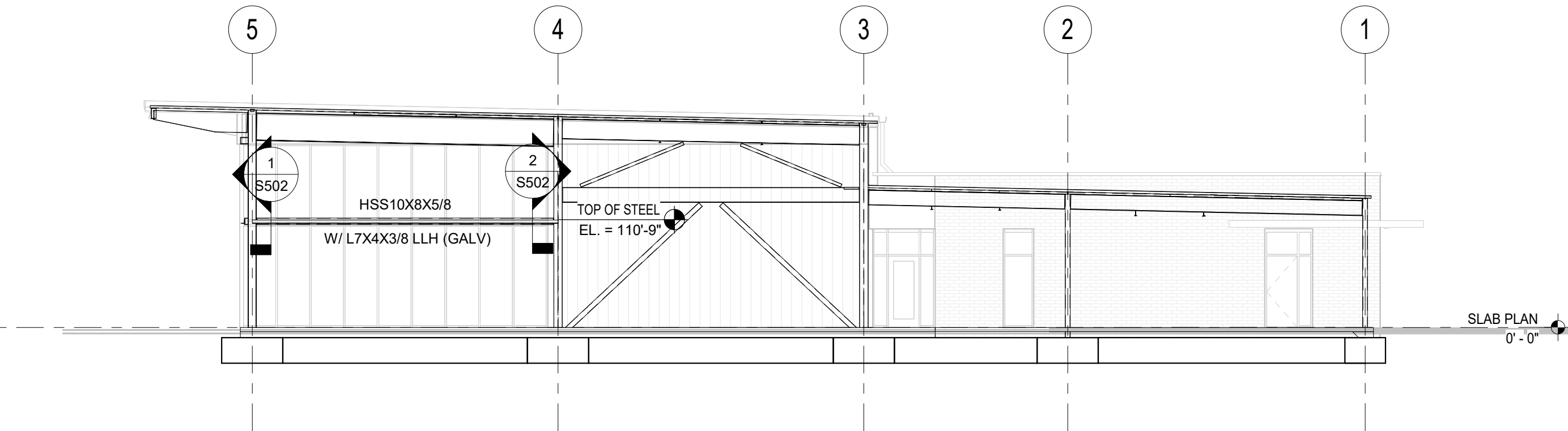
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S200

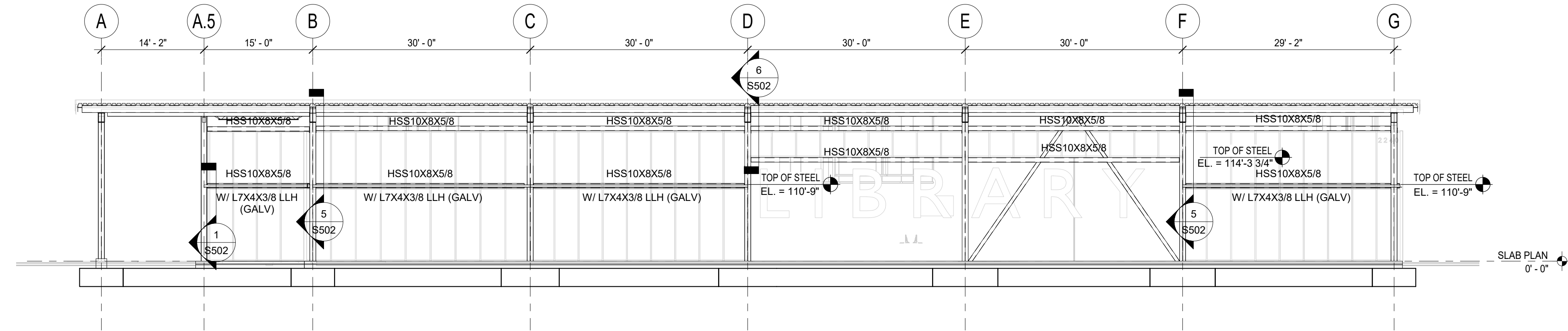
**BRACED FRAME
ELEVATIONS AND DETAILS**
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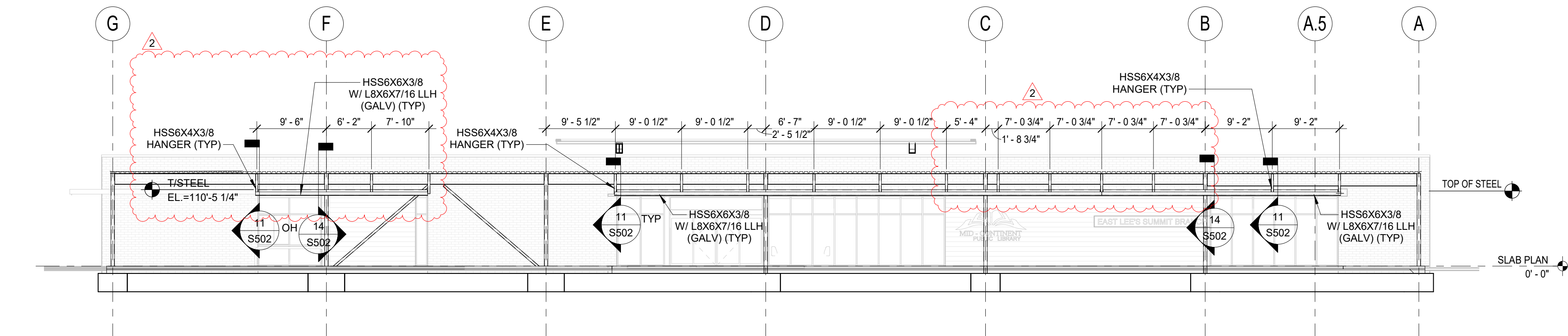
1 MISCELLANEOUS STEEL - EAST ELEVATION
SCALE = 3/32" = 1'-0"



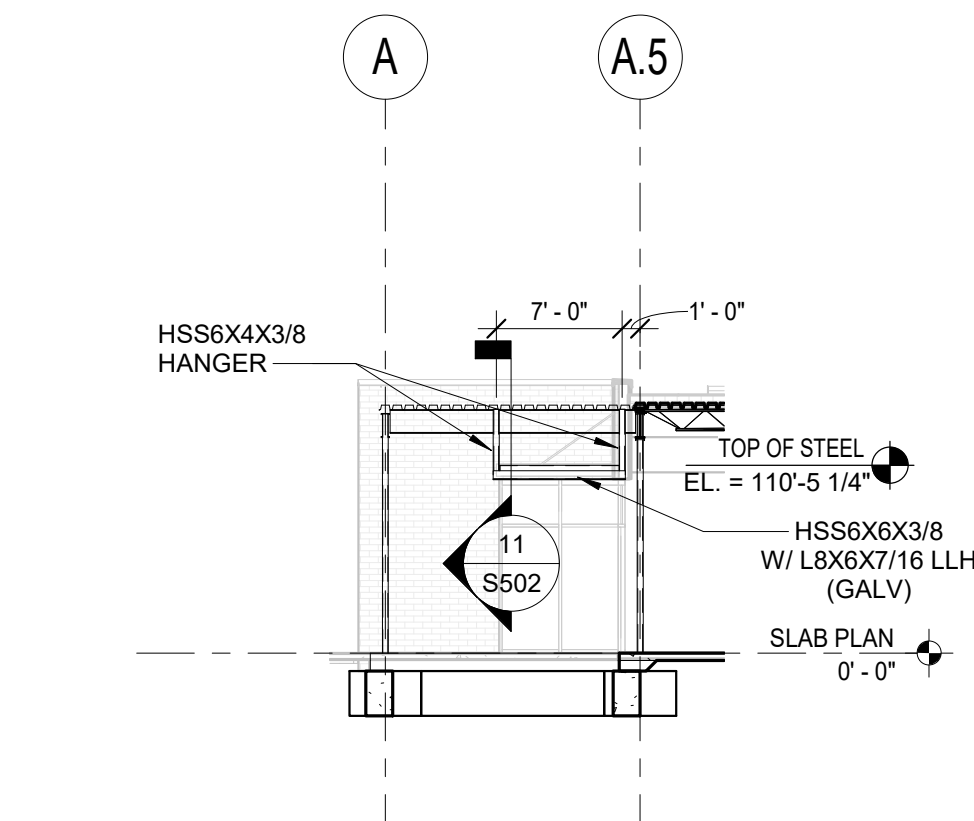
3 MISCELLANEOUS STEEL - WEST ELEVATION
SCALE = 3/32" = 1'-0"



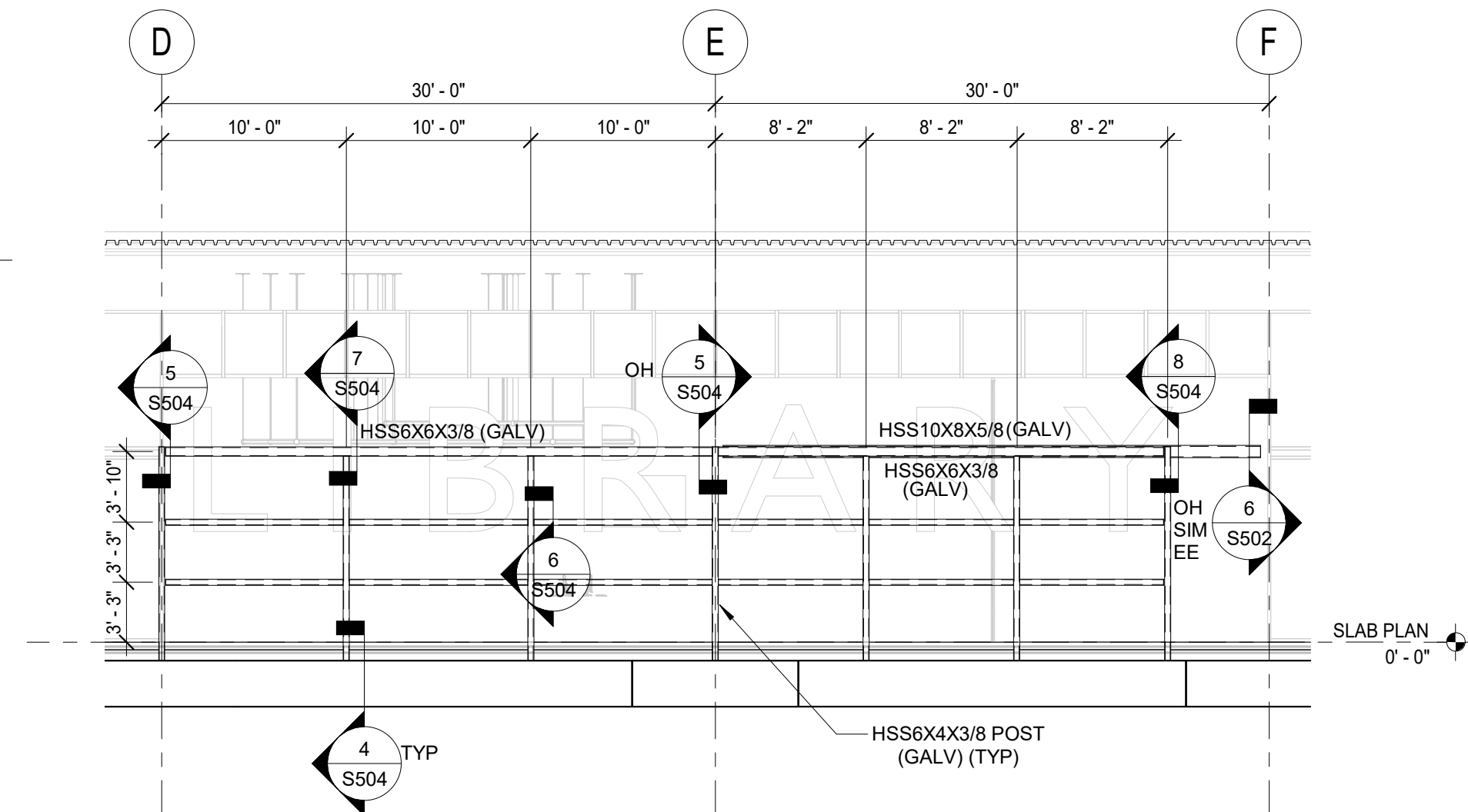
2 MISCELLANEOUS STEEL - SOUTH ELEVATION
SCALE = 3/32" = 1'-0"



4 MISCELLANEOUS STEEL - NORTH ELEVATION
SCALE = 3/32" = 1'-0"



5 MISCELLANEOUS STEEL - ALCOVE ELEVATION
SCALE = 3/32" = 1'-0"



NOTES:

- ALL STEEL TO BE HOT DIP GALVANIZED.
- STEEL SHOWN IS ADDITIONAL TO STEEL SHOWN ON OTHER ELEVATIONS.

6 MISCELLANEOUS STEEL - SOUTH ELEVATION RAIN SCREEN
SCALE = 1/8" = 1'-0"

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1	ASI 01	01/15/2019
2	ASI 005	03/20/19

Project No.	Date	Drawn
018-0330	09/07/2018	Author

Drawing No.

S201
MISCELLANEOUS STEEL
ELEVATIONS

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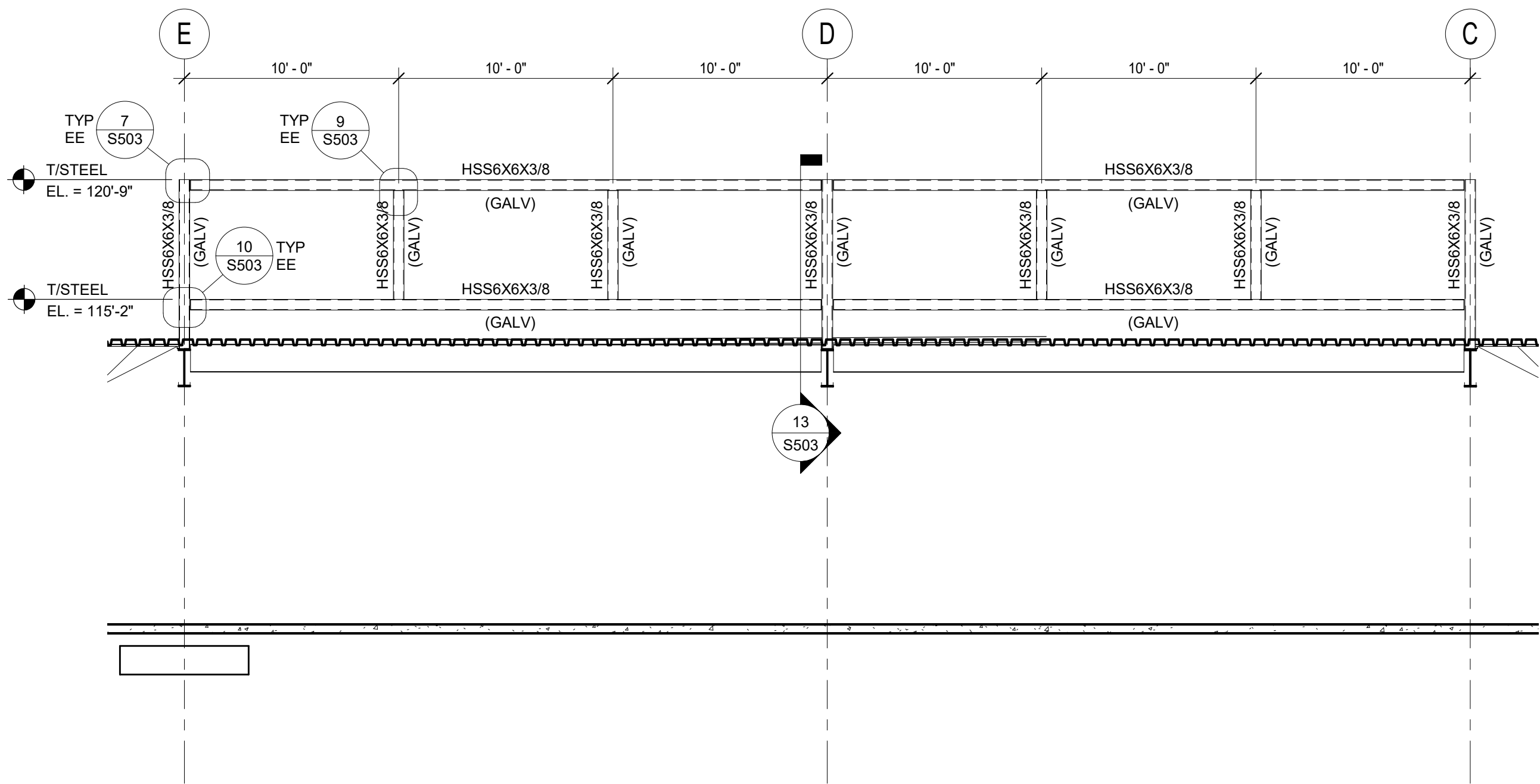
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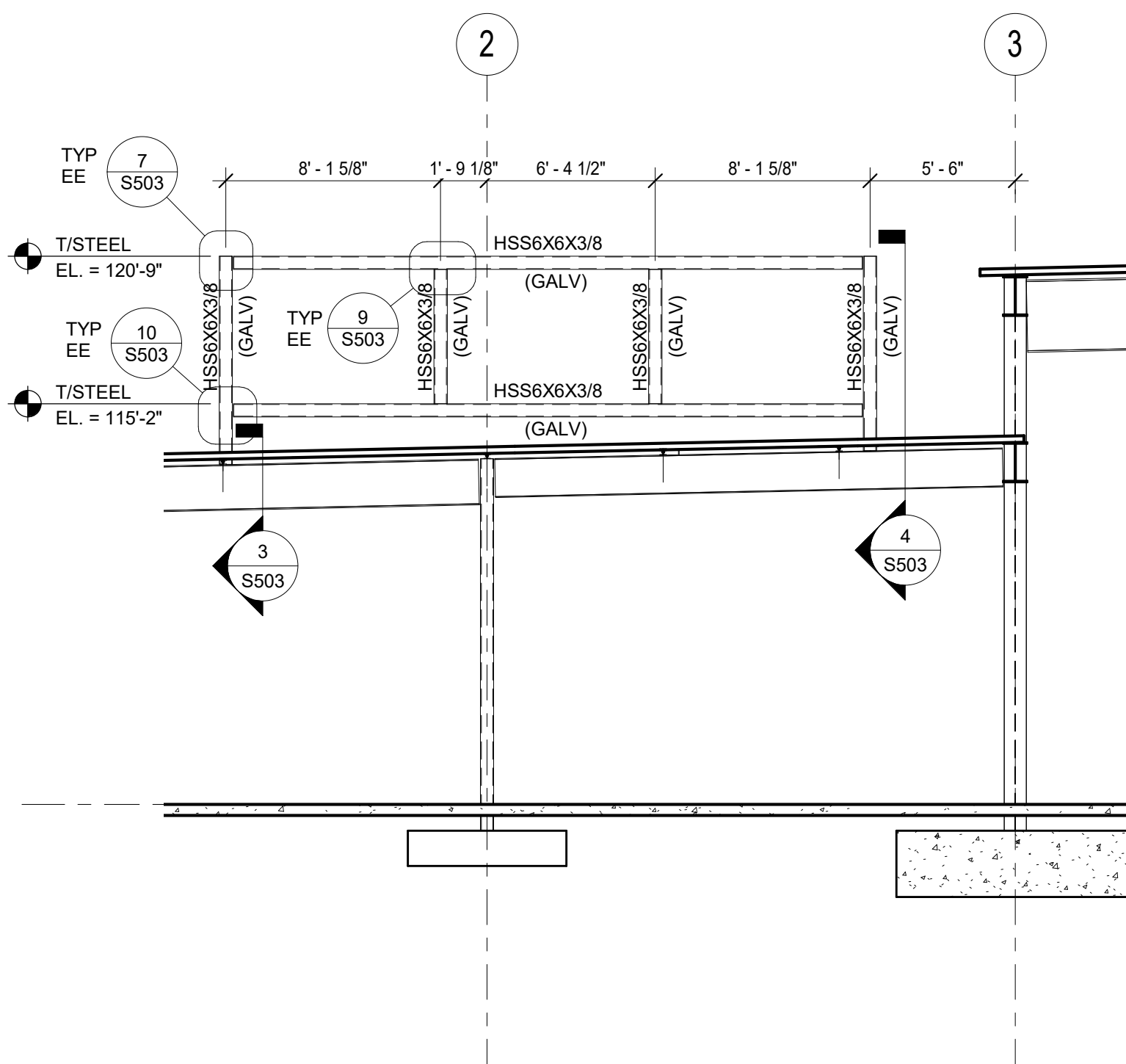
Project No. 018-0330	Date 09/07/2018	Drawn Author
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Drawing No.

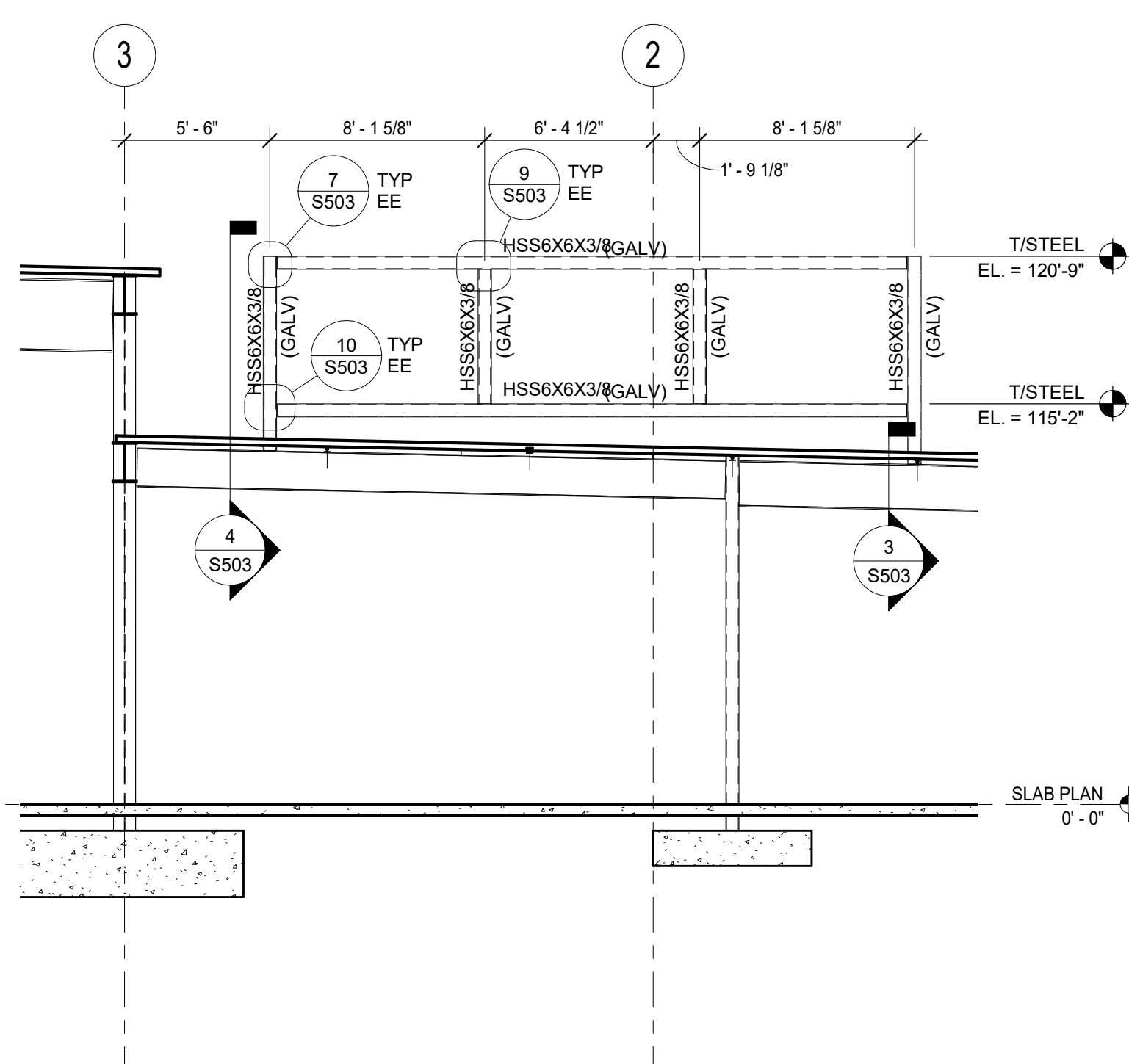
S202
SCREEN WALL ELEVATIONS



1 SCREEN WALL ELEVATION - NORTH
SCALE = 3/16" = 1'-0"



2 SCREEN WALL ELEVATION - WEST
SCALE = 3/16" = 1'-0"



3 SCREEN WALL ELEVATION - EAST
SCALE = 3/16" = 1'-0"



SCALE = 3/8" = 1'-0"



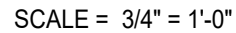
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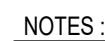
NOTE :

WHERE WALLS ARE BACKFILLED ON BOTH SIDES, PROVIDE DETAIL SUITABLE FOR SIDE WITH GREATEST HEIGHT OF BACKFILL. WHERE HEIGHT OF BACKFILL IS THE SAME ON BOTH SIDES OR WALL WITHOUT BACKFILL, USE OUTSIDE LOADED DETAIL.

SCALE = 3/4" = 1'-0"

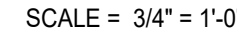
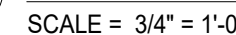
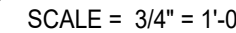


SCALE = 3/4" = 1'-0"



1. THE CONTRACTOR SHALL OBTAIN EXACT SIZES, LOCATIONS, WEIGHTS, AND ANY SPECIAL DETAILS FOR THE PADS OR CURBS FROM THE EQUIPMENT CONTRACTOR BEFORE CONSTRUCTING PADS OR CURBS.
2. THE CONTRACTOR SHALL VERIFY THAT ALL ITEMS REQUIRED BY THE EQUIP. THAT ARE TO BE EMBEDDED INTO PADS OR CURBS ARE PLACED BEFORE CONCRETE IS POURED.
3. STOP #4 HORIZ. BARS AT CONTROL JOINTS.

SCALE = 3/4" = 1'-0"



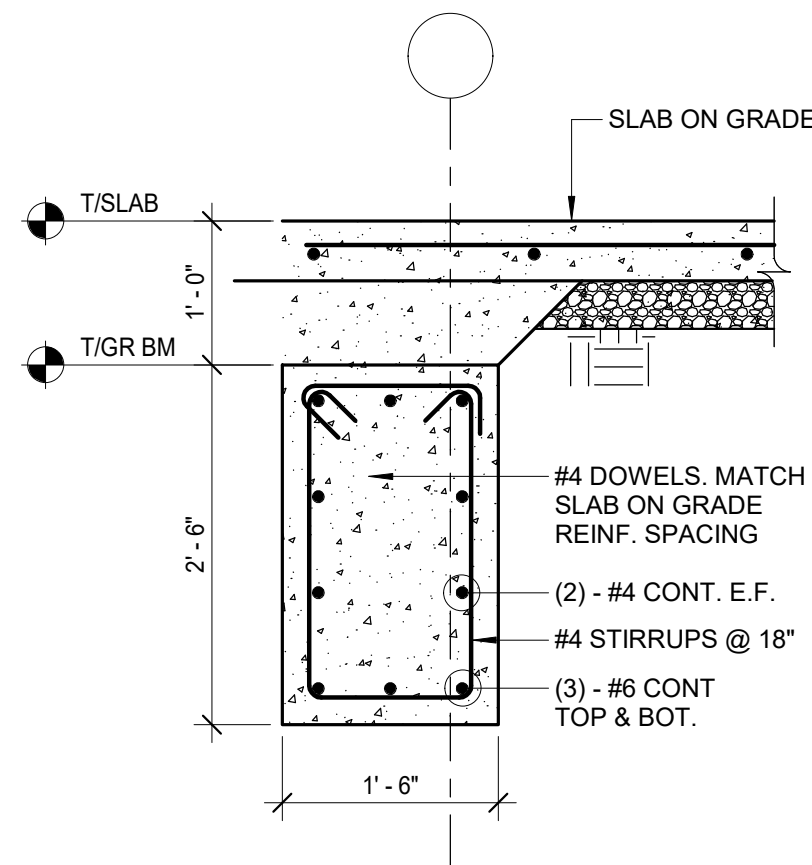
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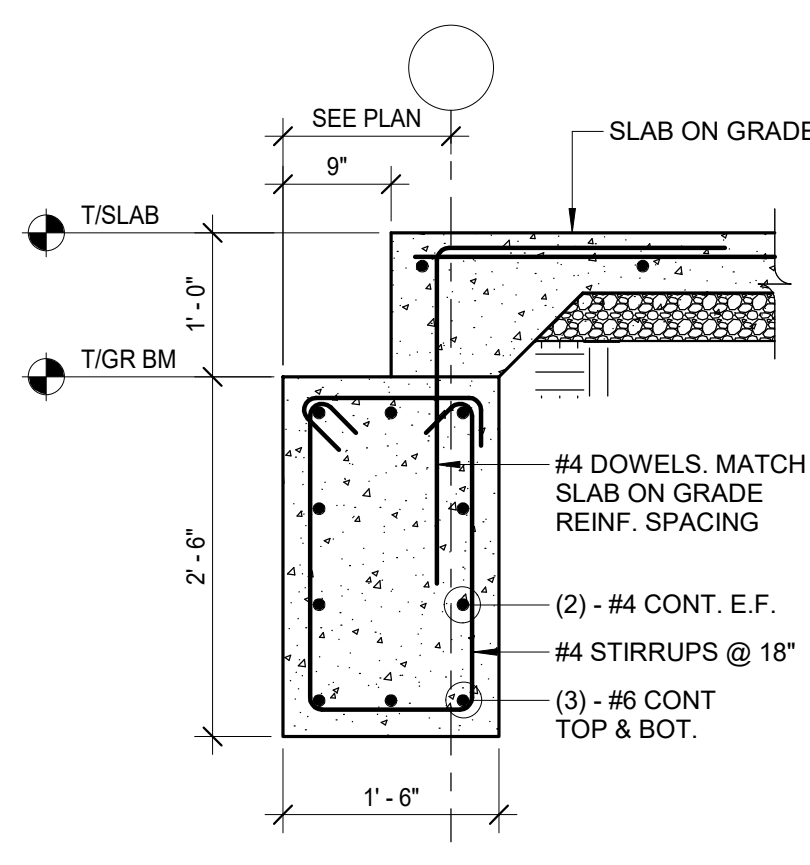
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S300

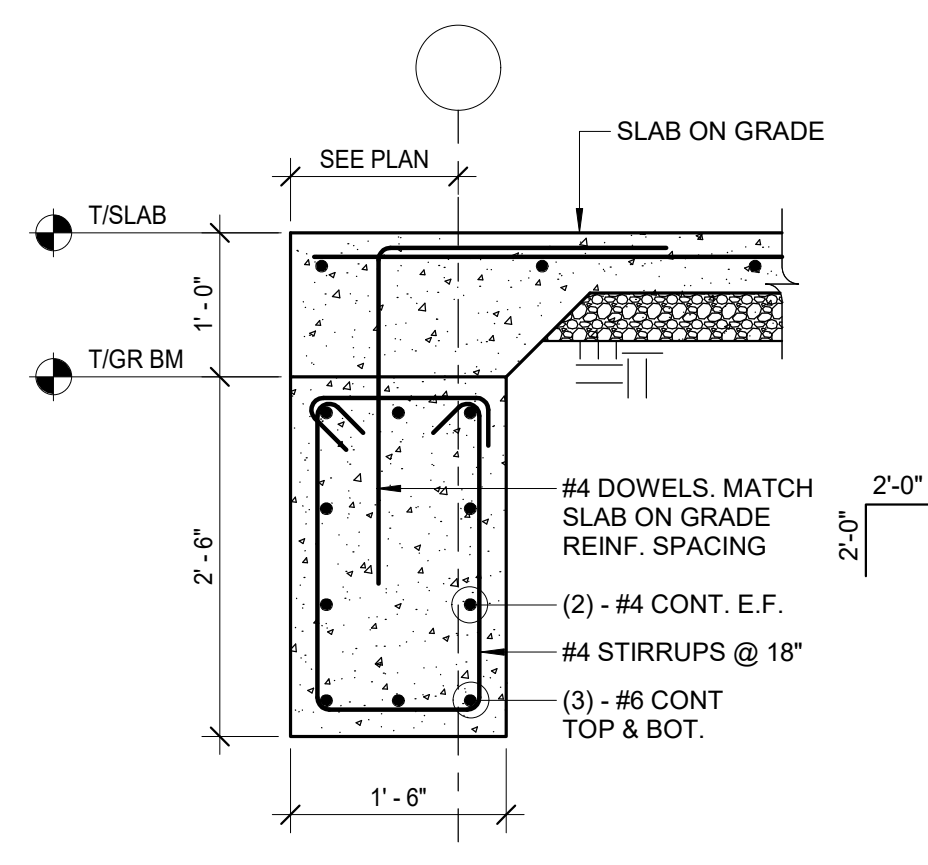
**TYPICAL CONCRETE
SECTIONS AND DETAILS**
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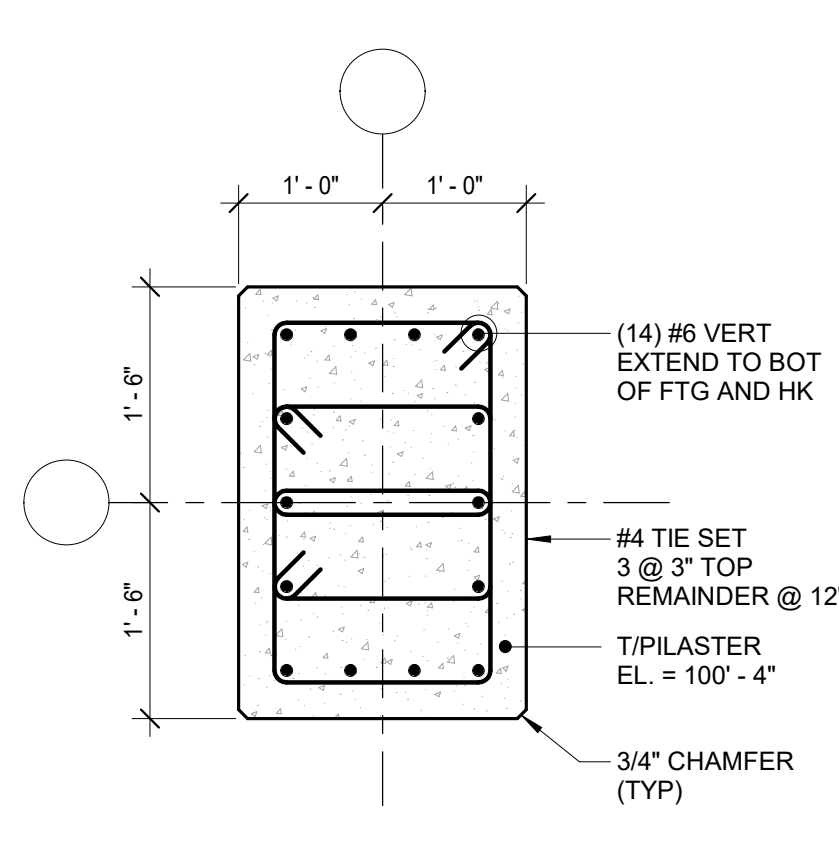
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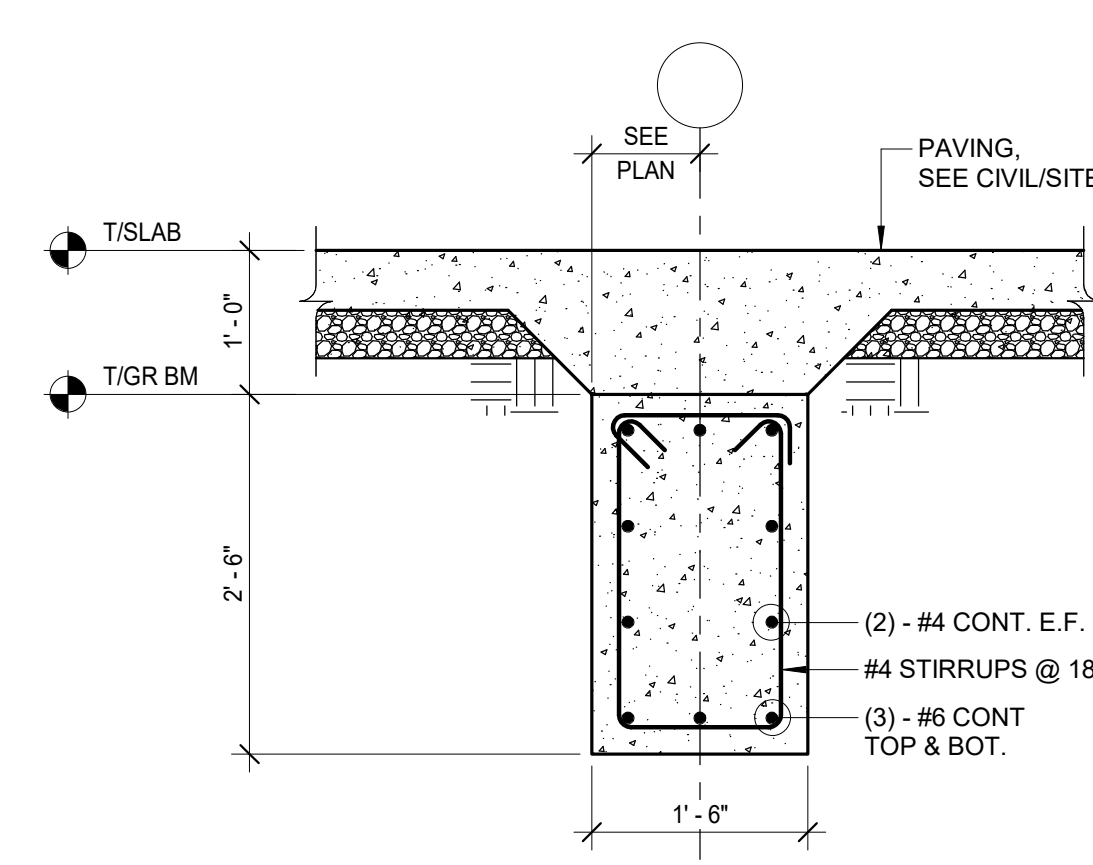
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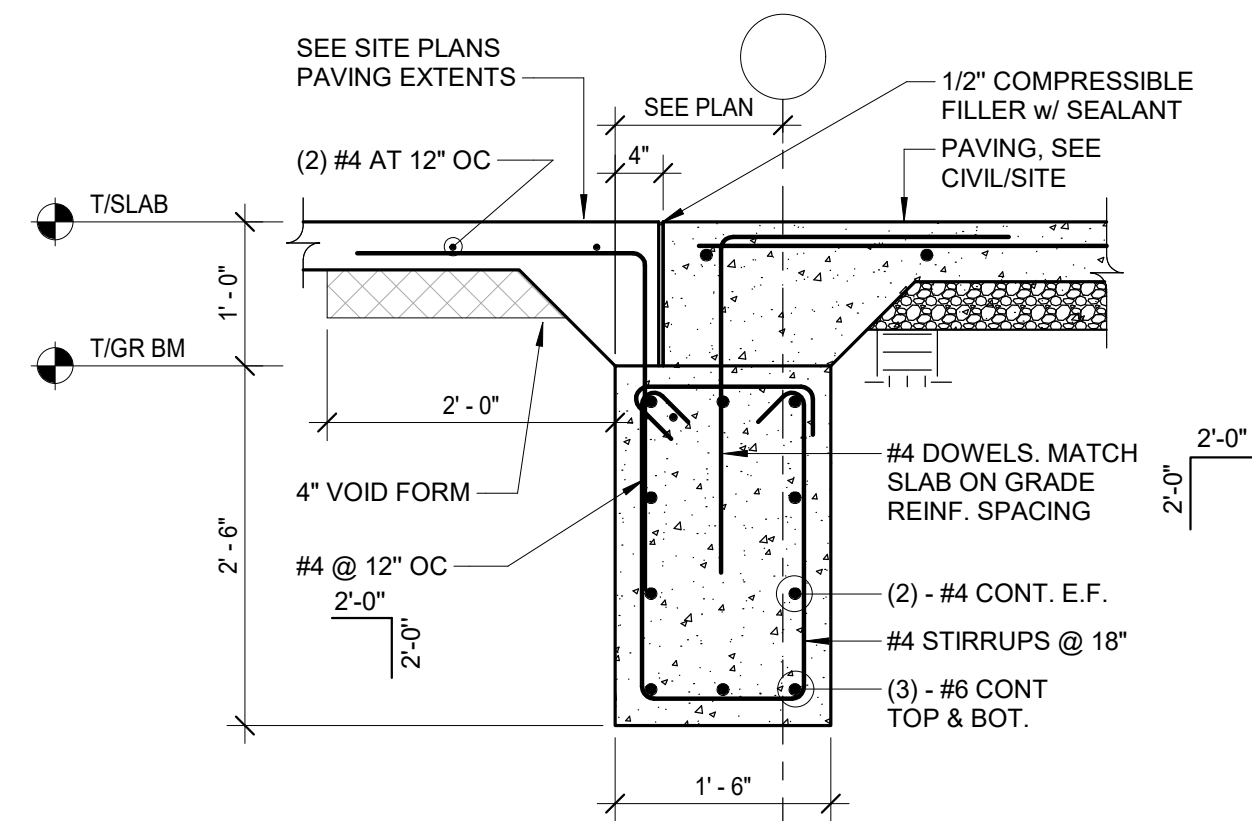
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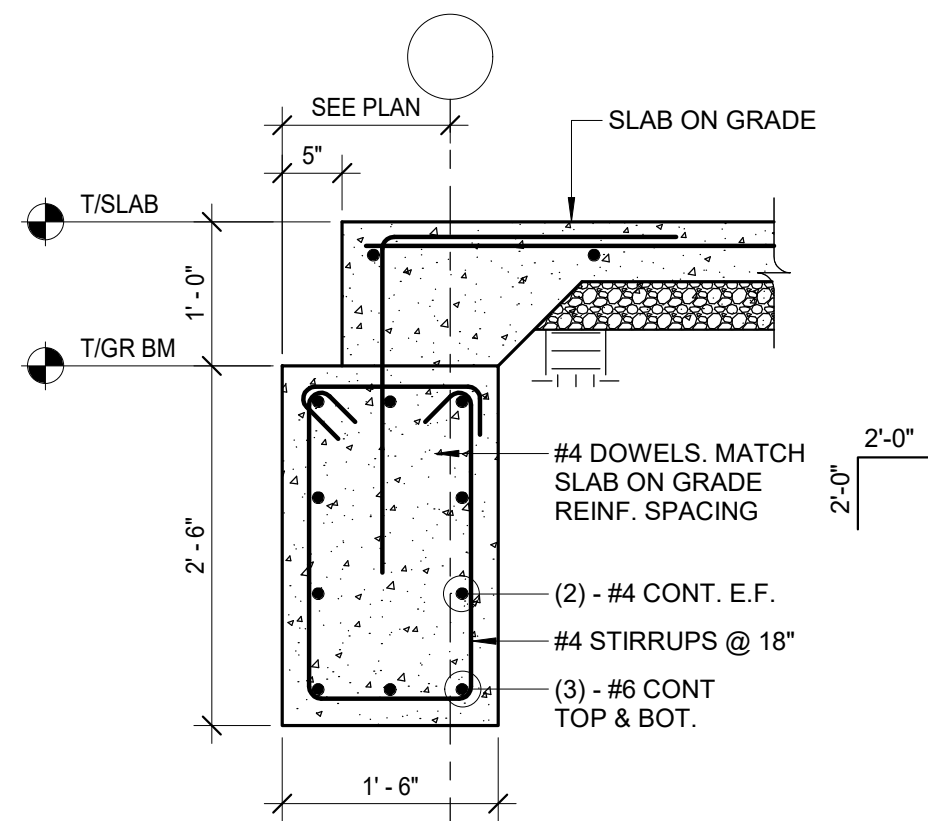
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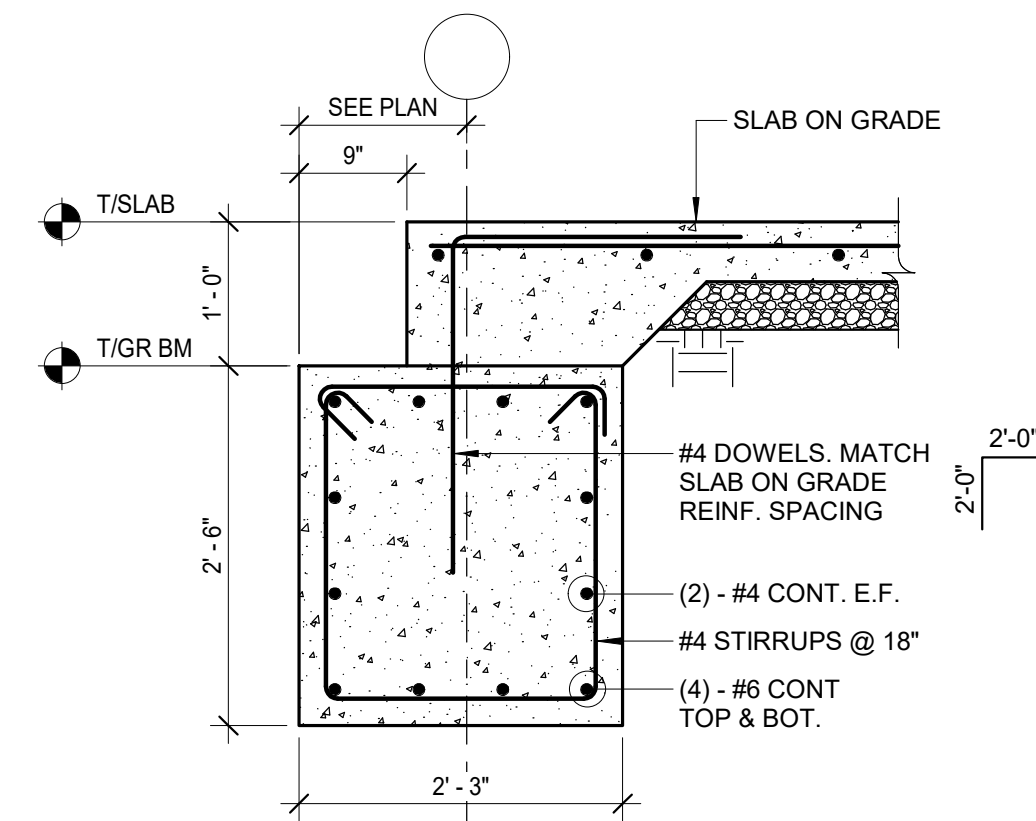
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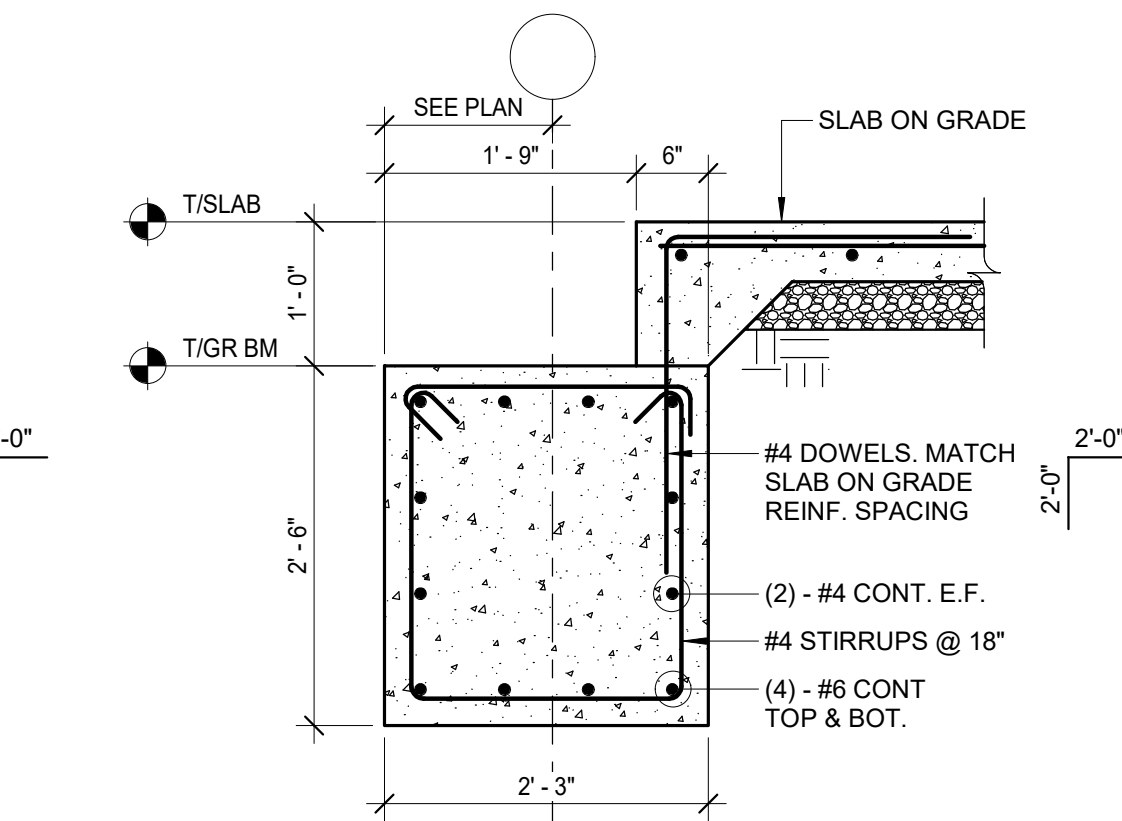
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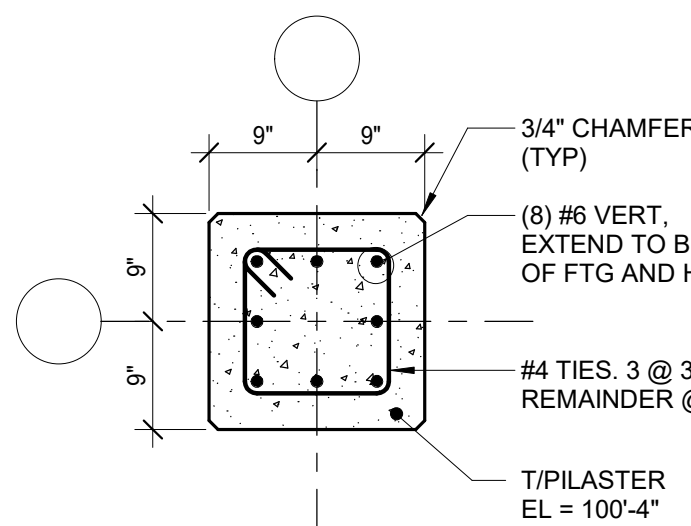
7 SECTION
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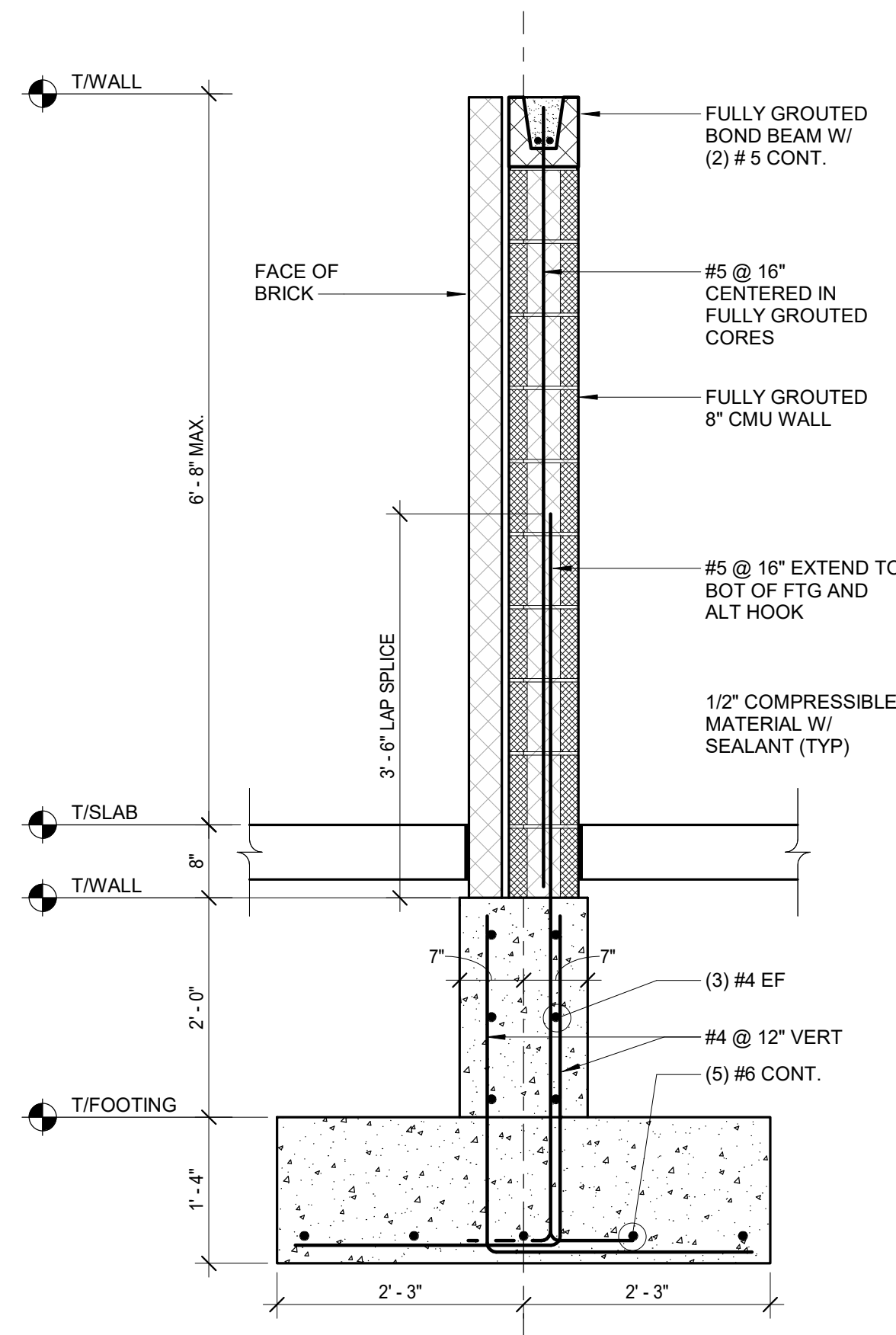
8 SECTION
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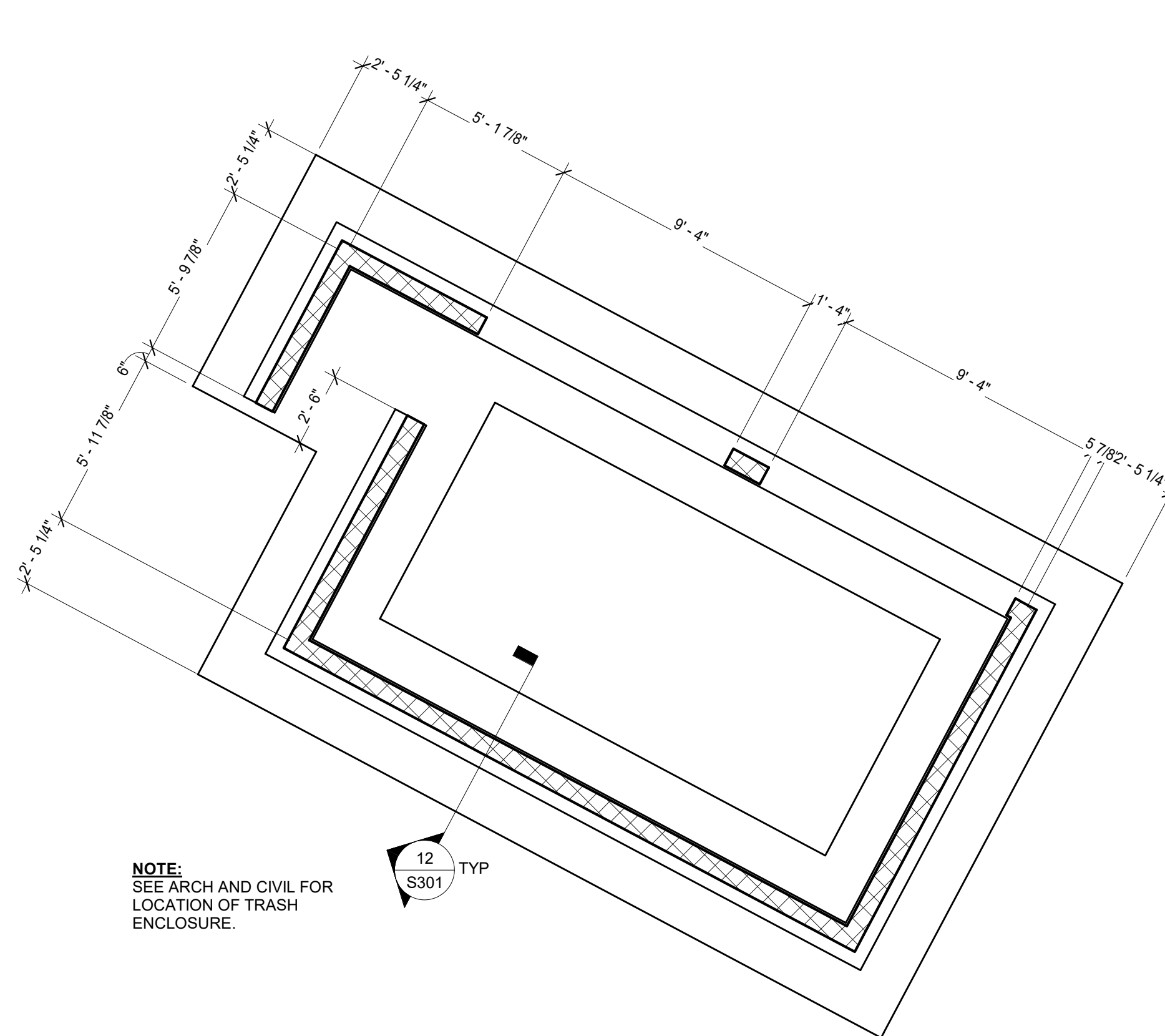
9 SECTION
SCALE = 3/4" = 1'-0"



10 SECTION
SCALE = 3/4" = 1'-0"



12 SECTION
SCALE = 3/4" = 1'-0"



11 TRASH ENCLOSURE PARTIAL PLAN
SCALE = 1/4" = 1'-0"

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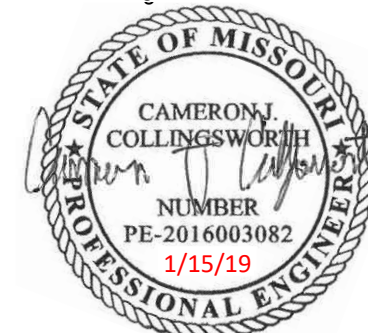
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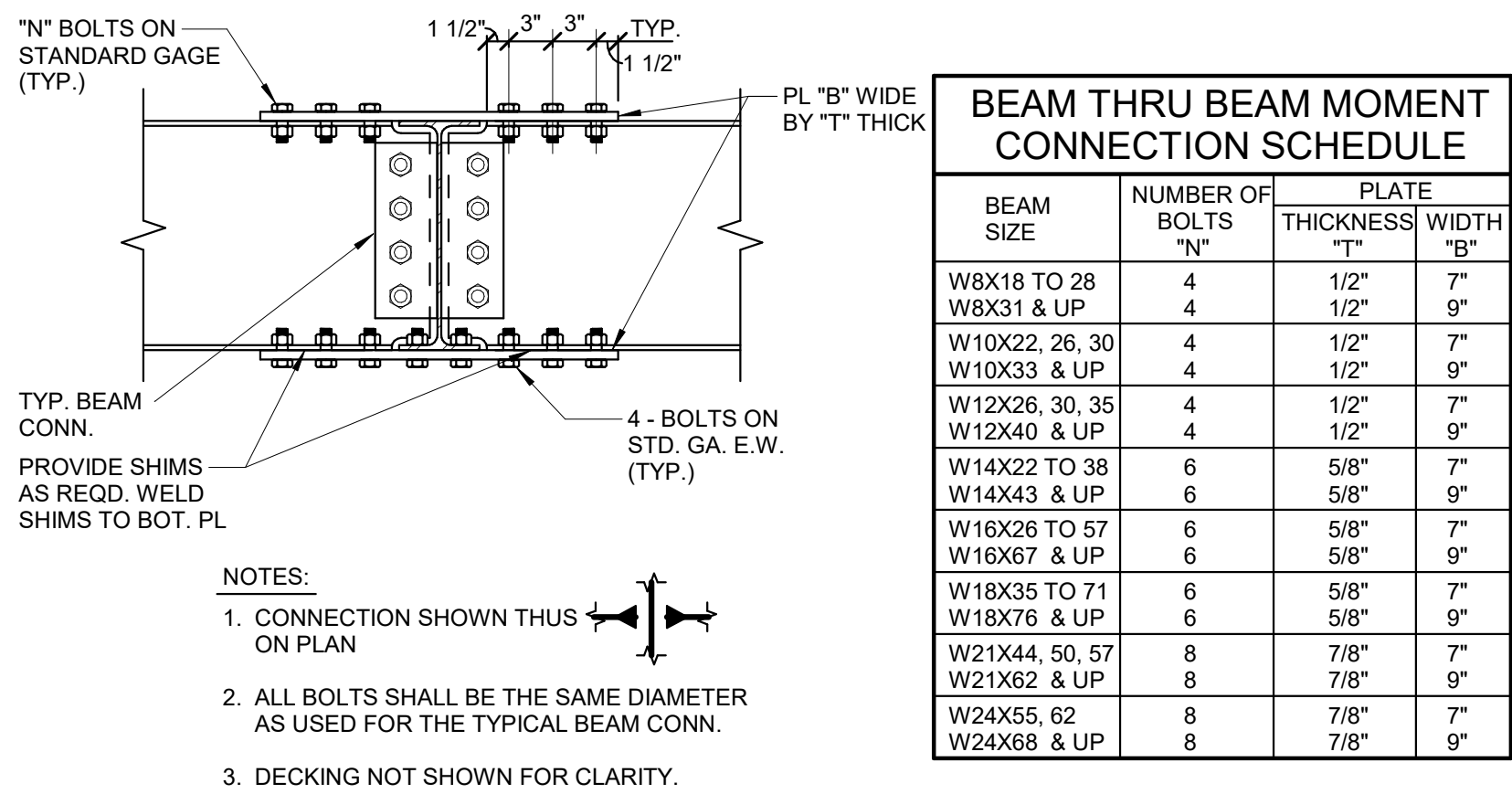
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1	ASI 01	01/15/2019

Project No.	Date	Drawn
018-0330	09/07/2018	Author

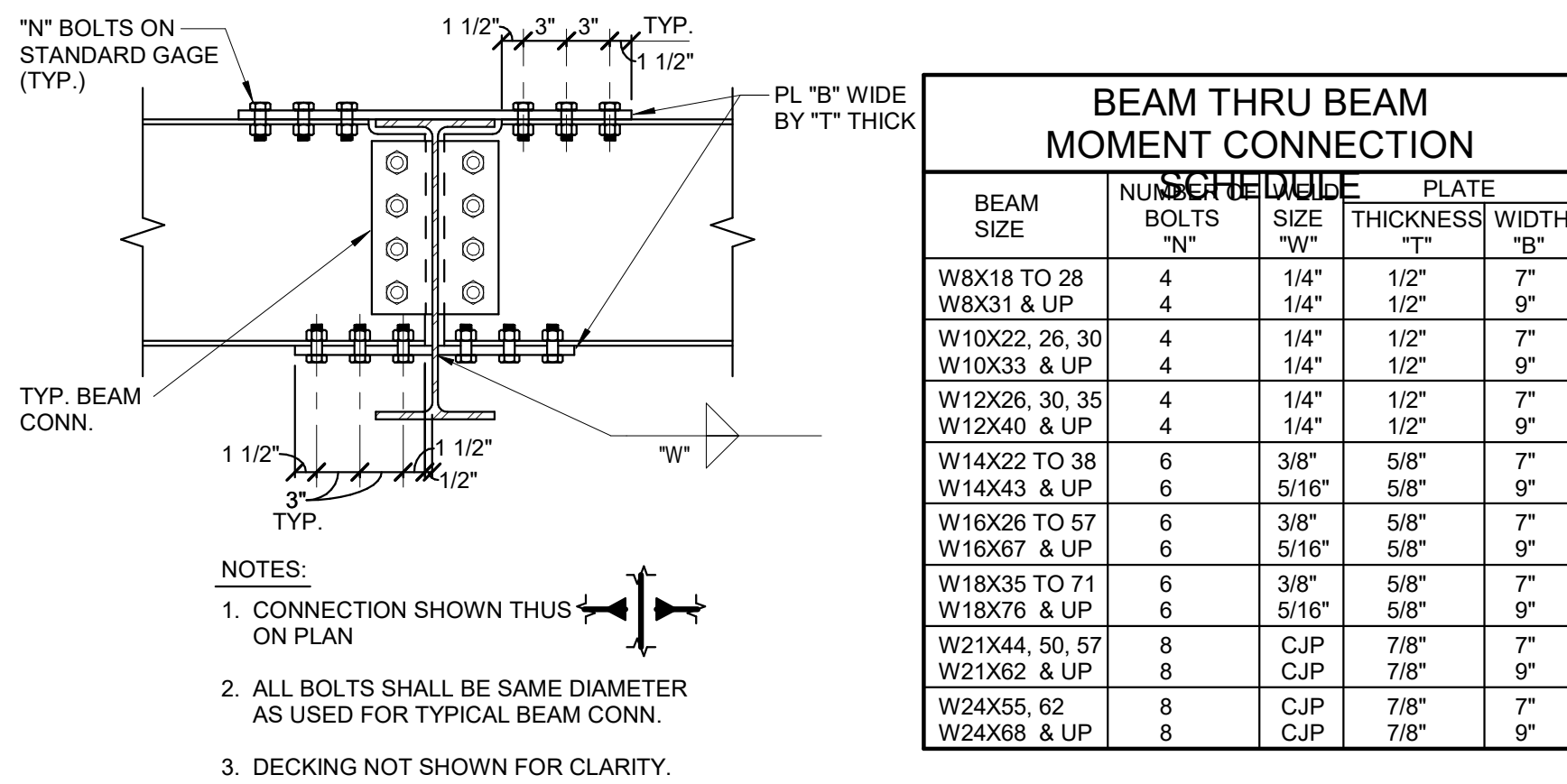
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S301
CONCRETE SECTIONS AND
DETAILS

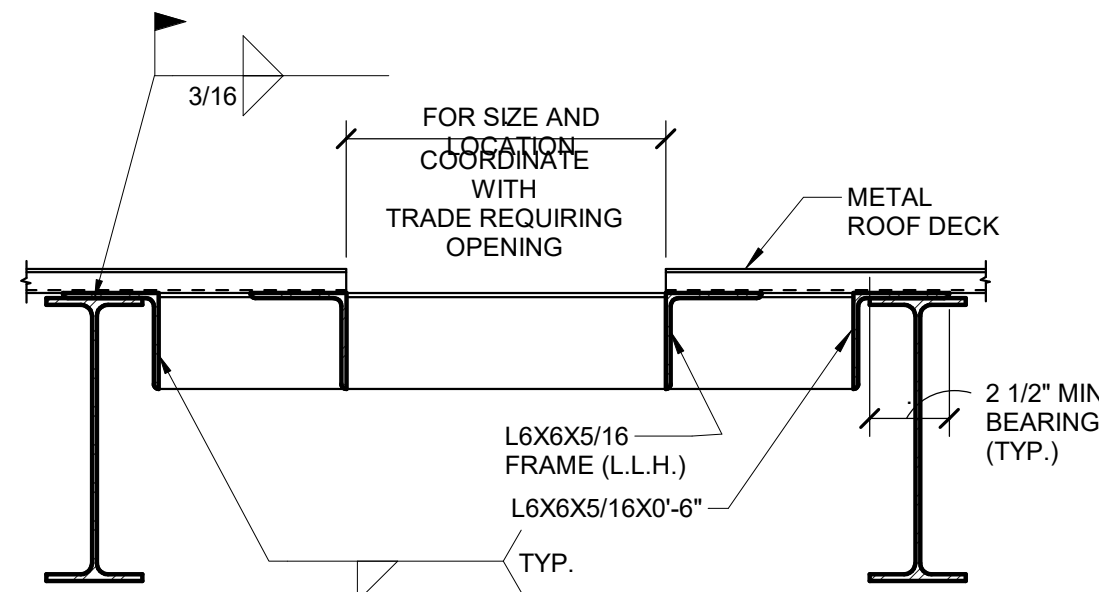
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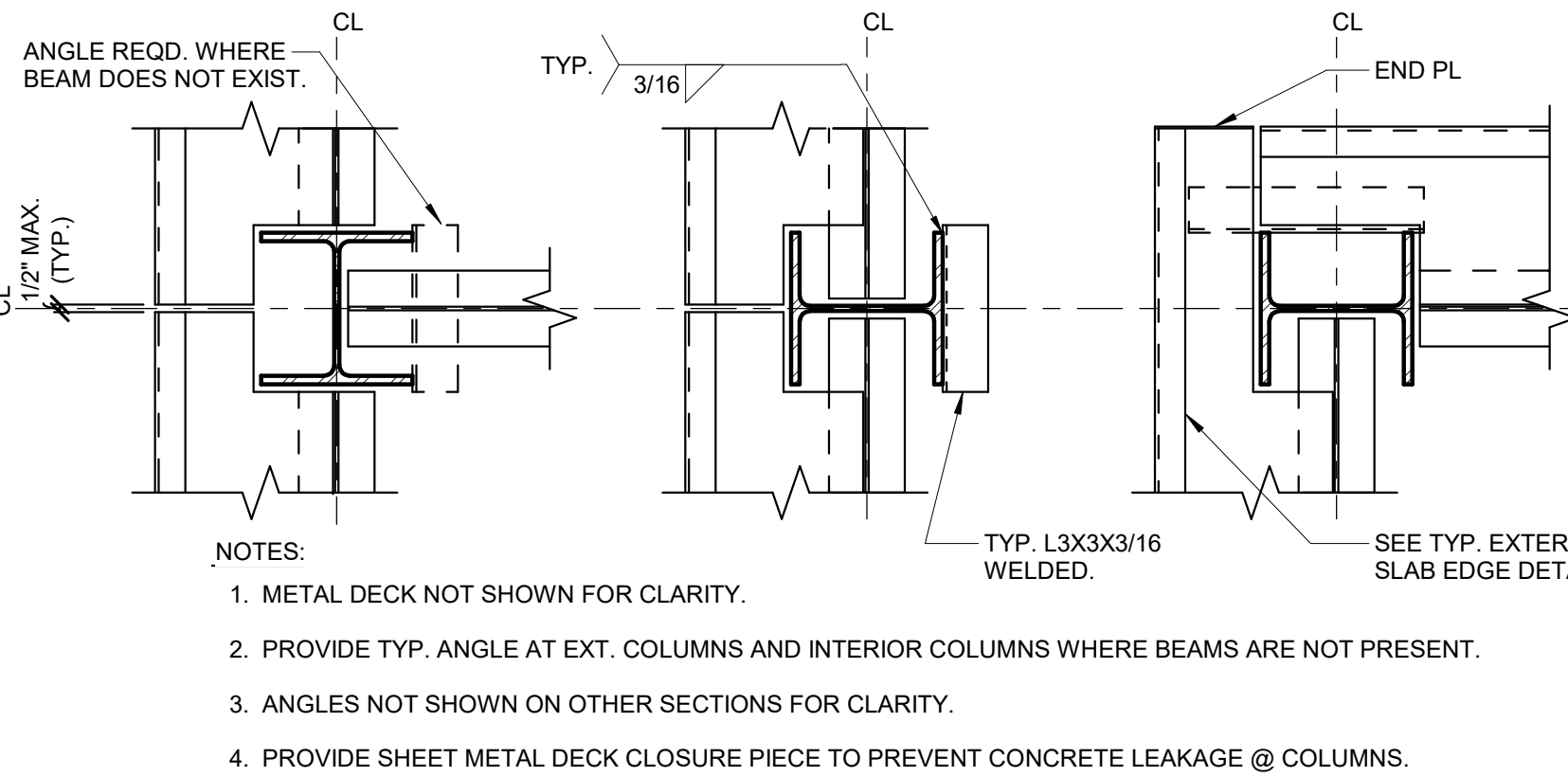
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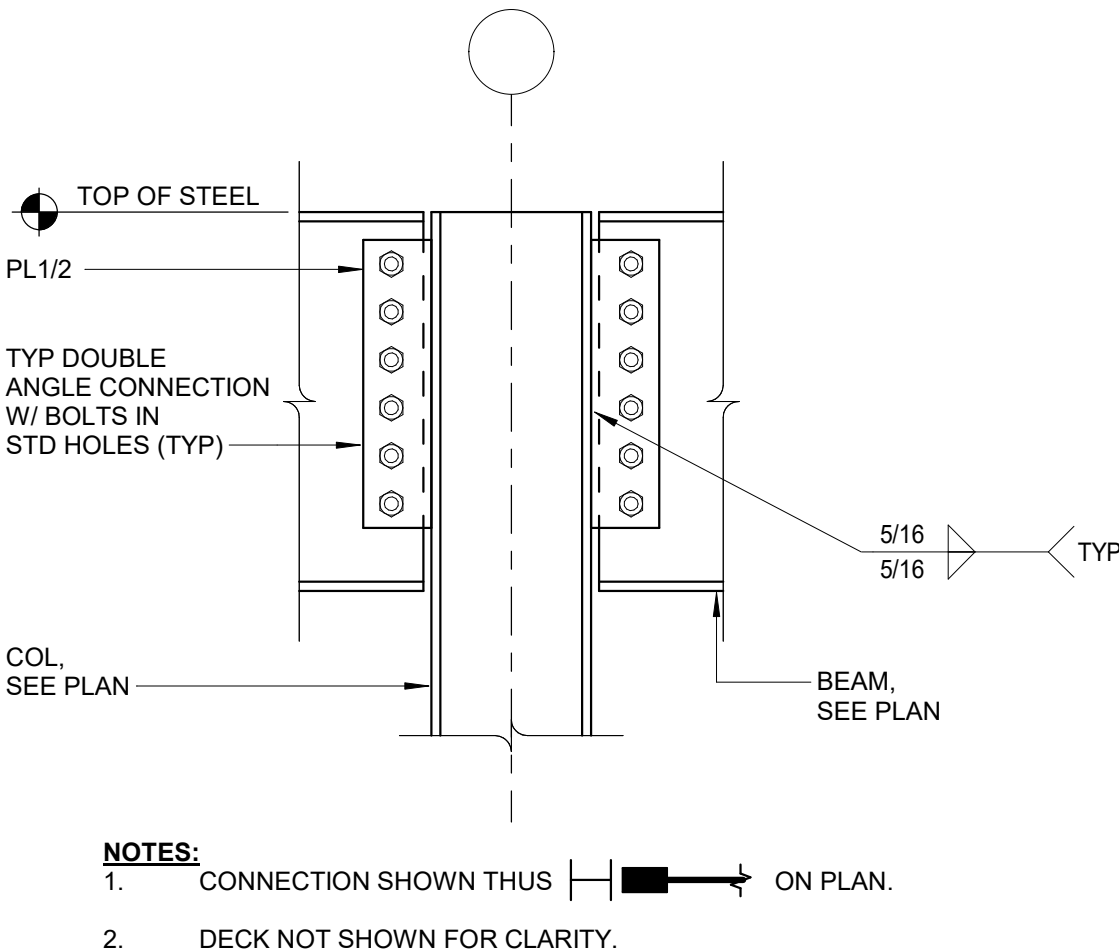
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SCALE = 1" = 1'-0"



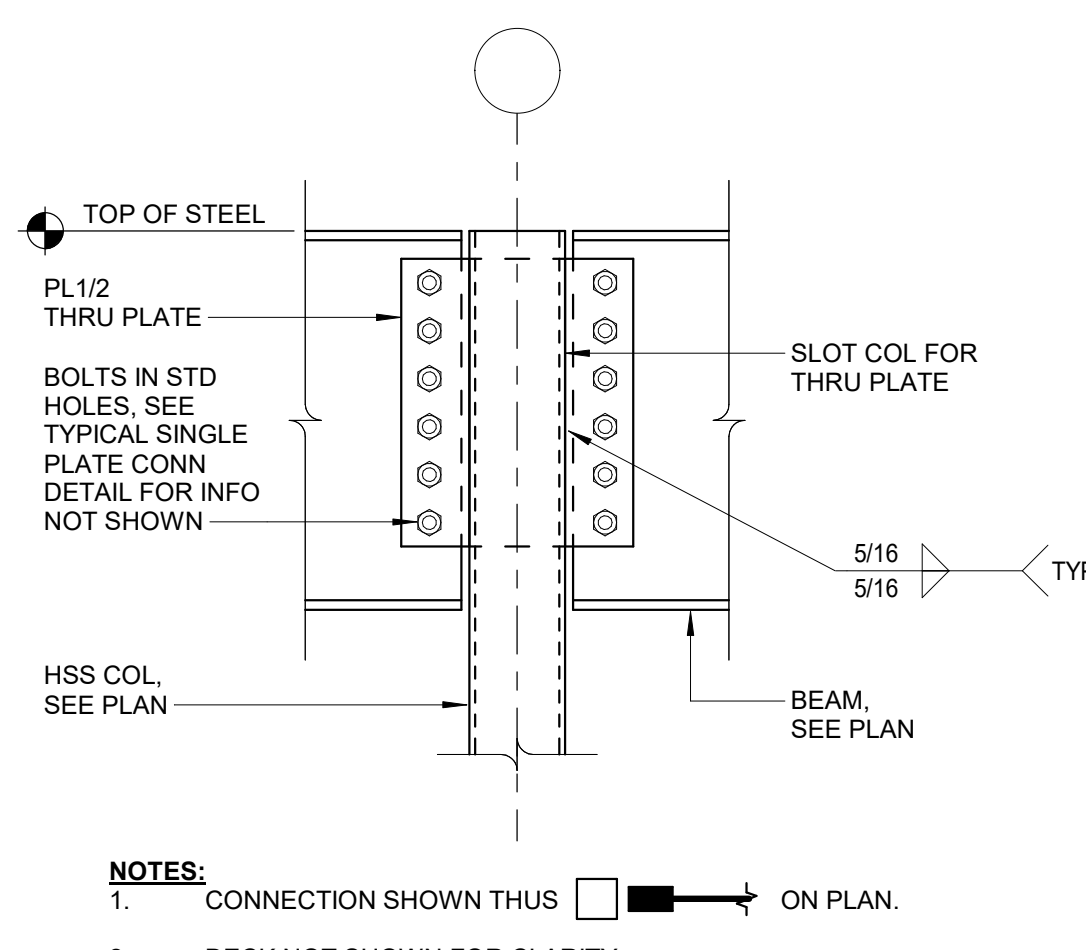
3 TYP. FRAMING @ ROOF OPENING AND ROOF DRAINS
SCALE = 1" = 1'-0"



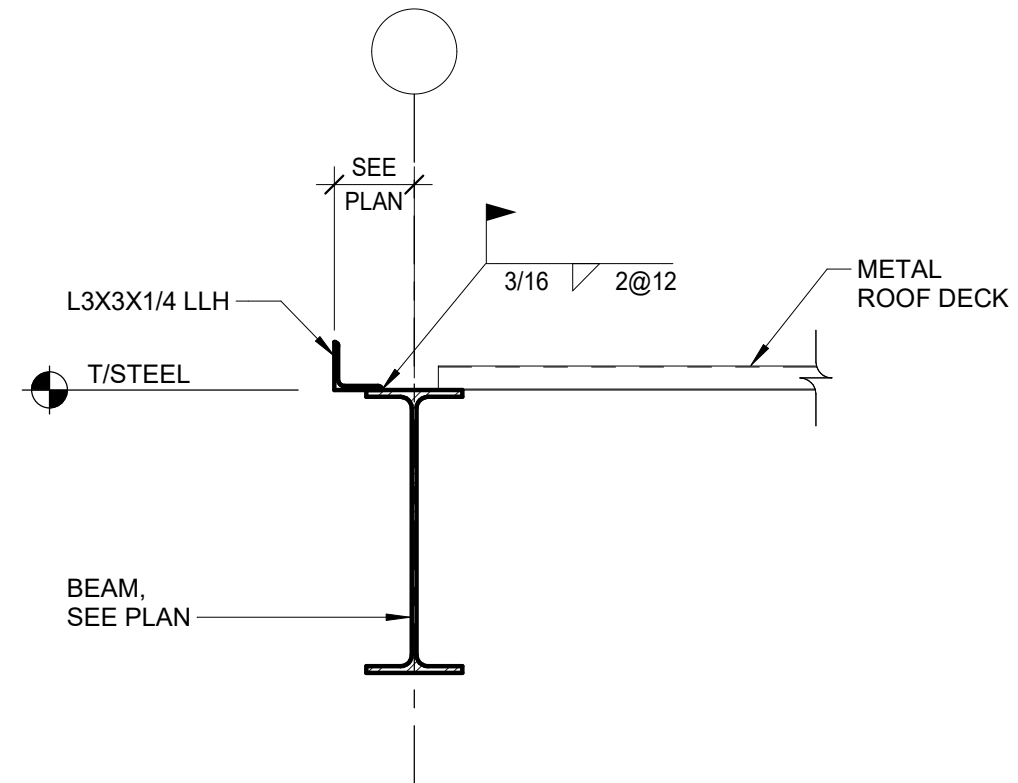
4 TYP. DECK SUPPORT @ W COLUMNS
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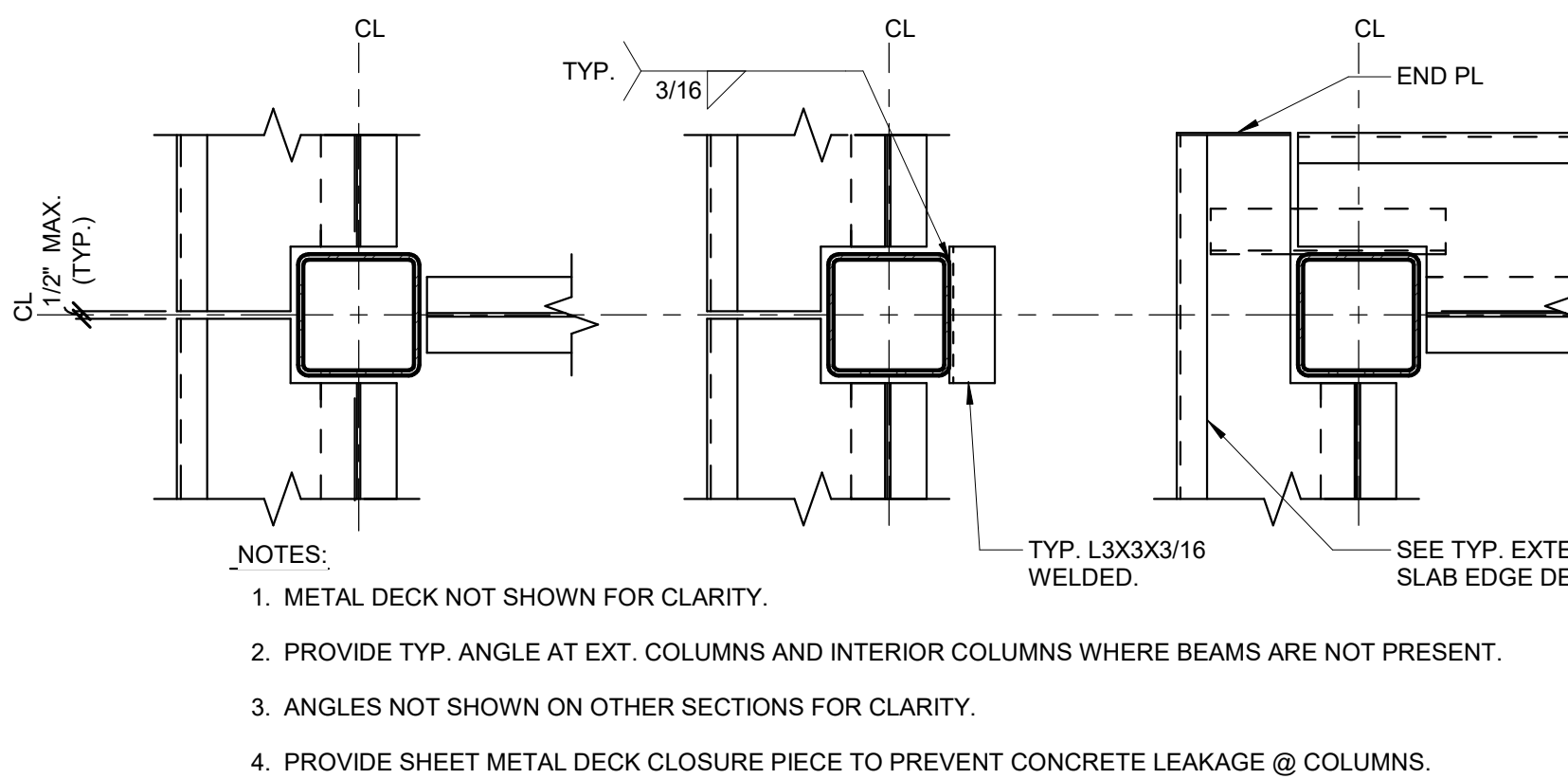
5 TYPICAL DRAG SPLICE CONN @ W COL
SCALE = 1" = 1'-0"



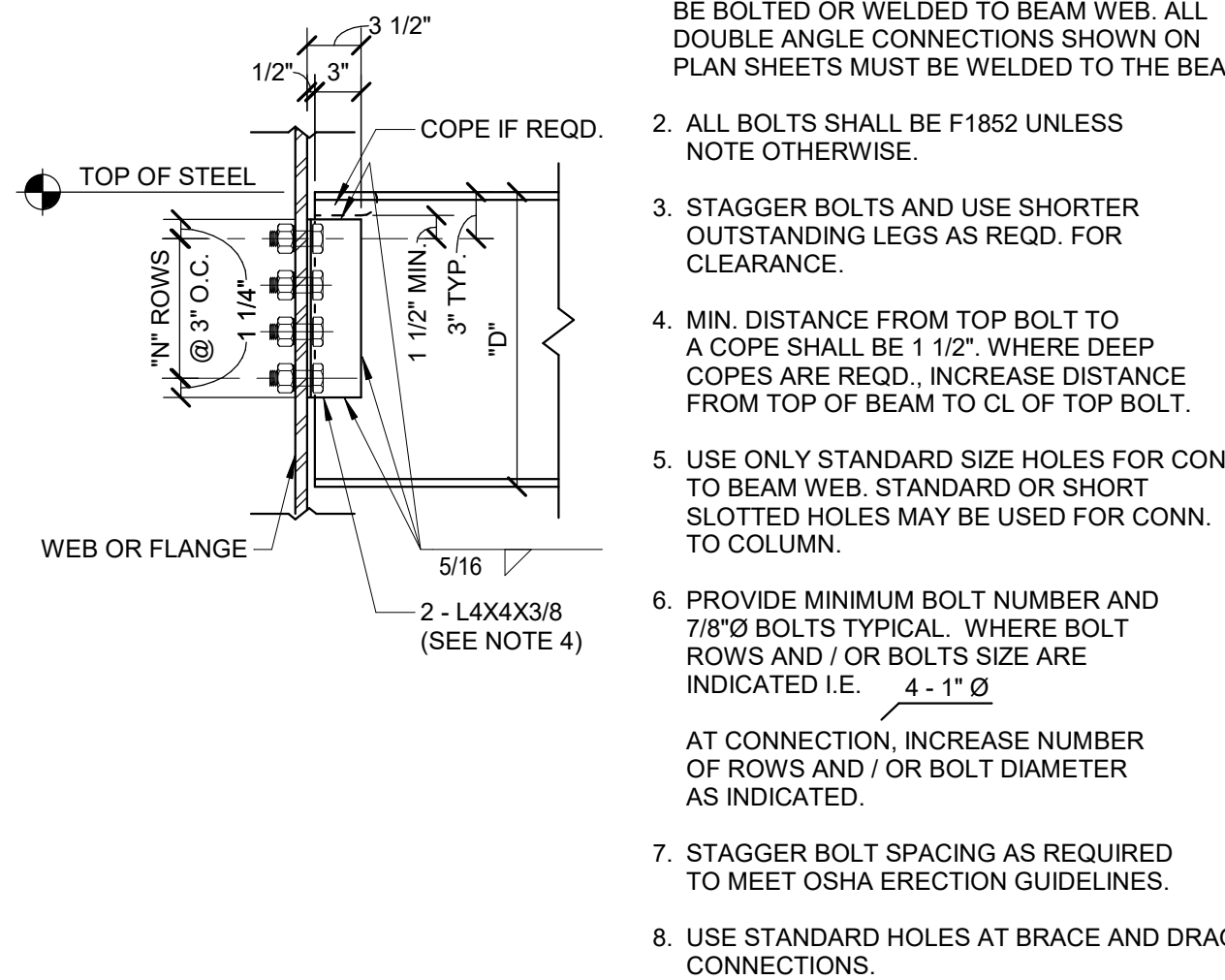
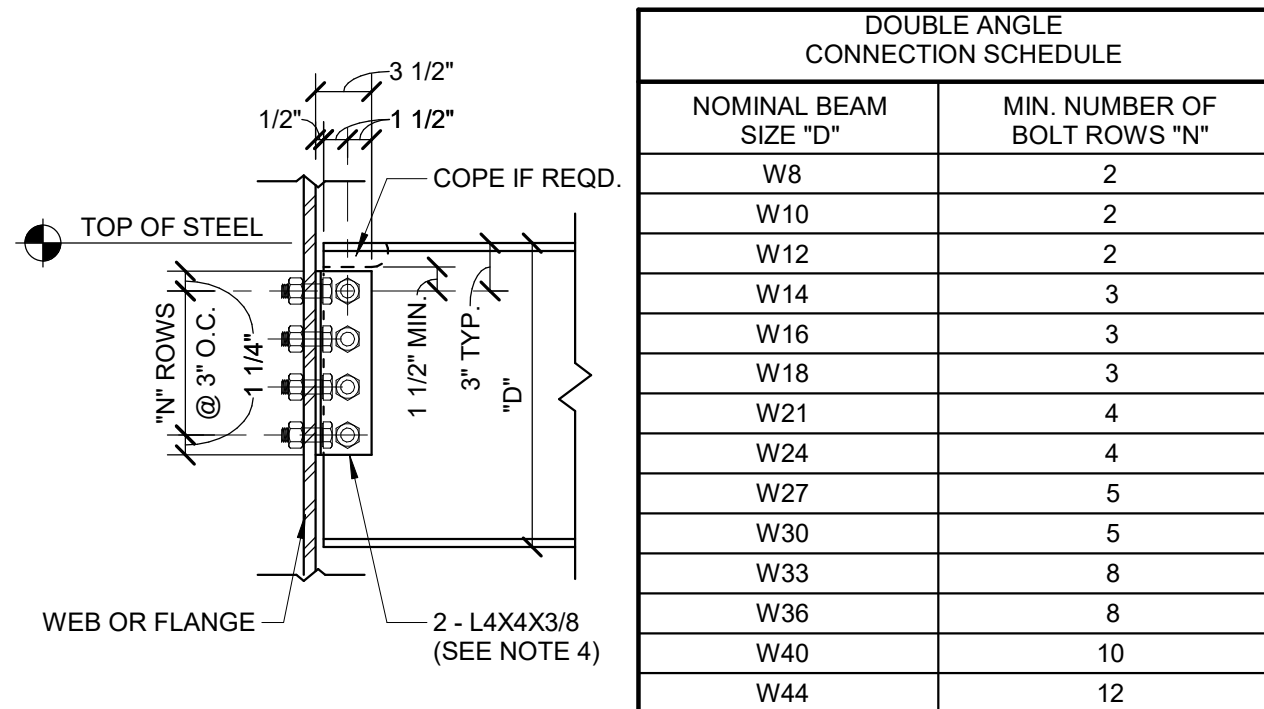
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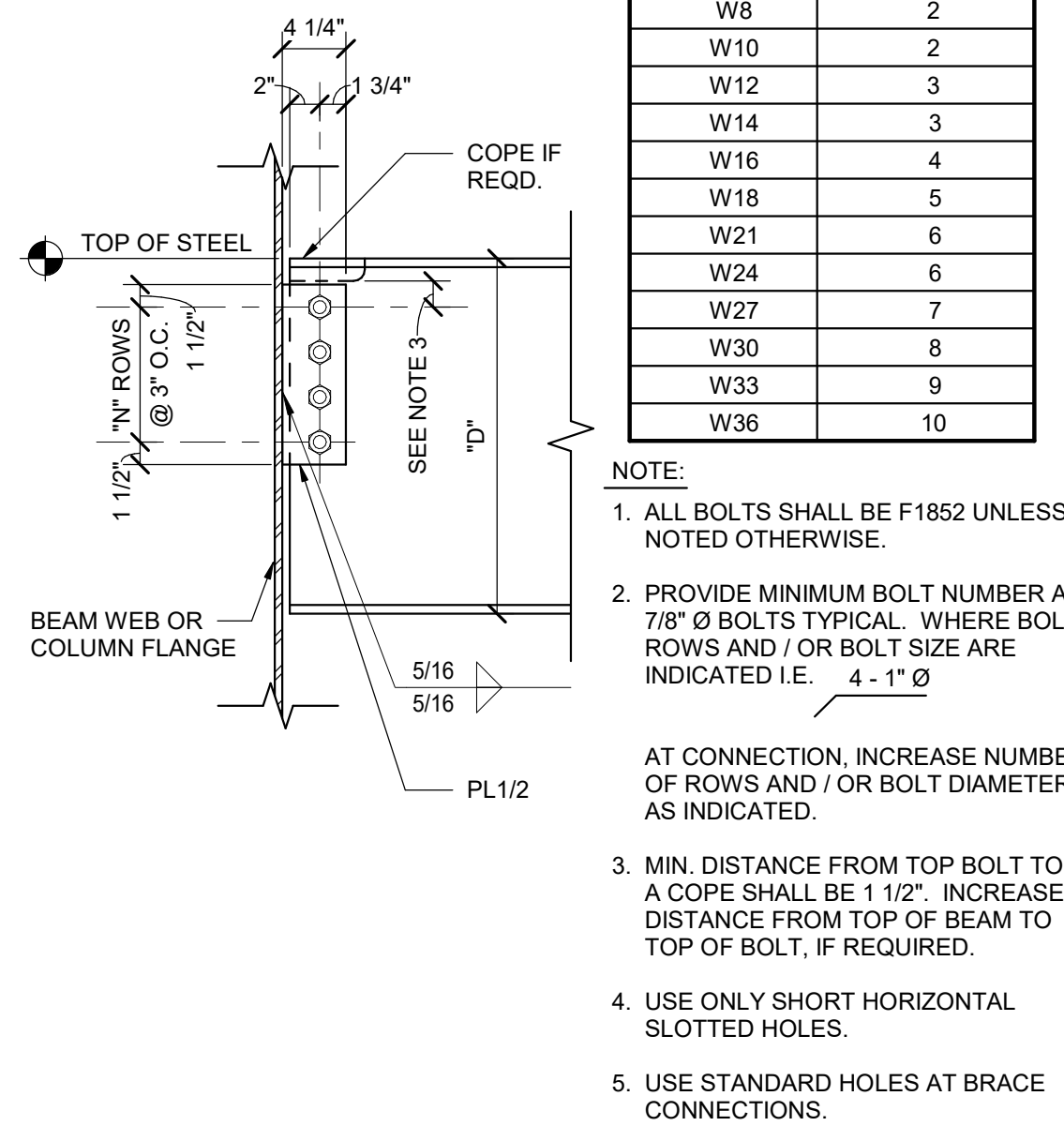
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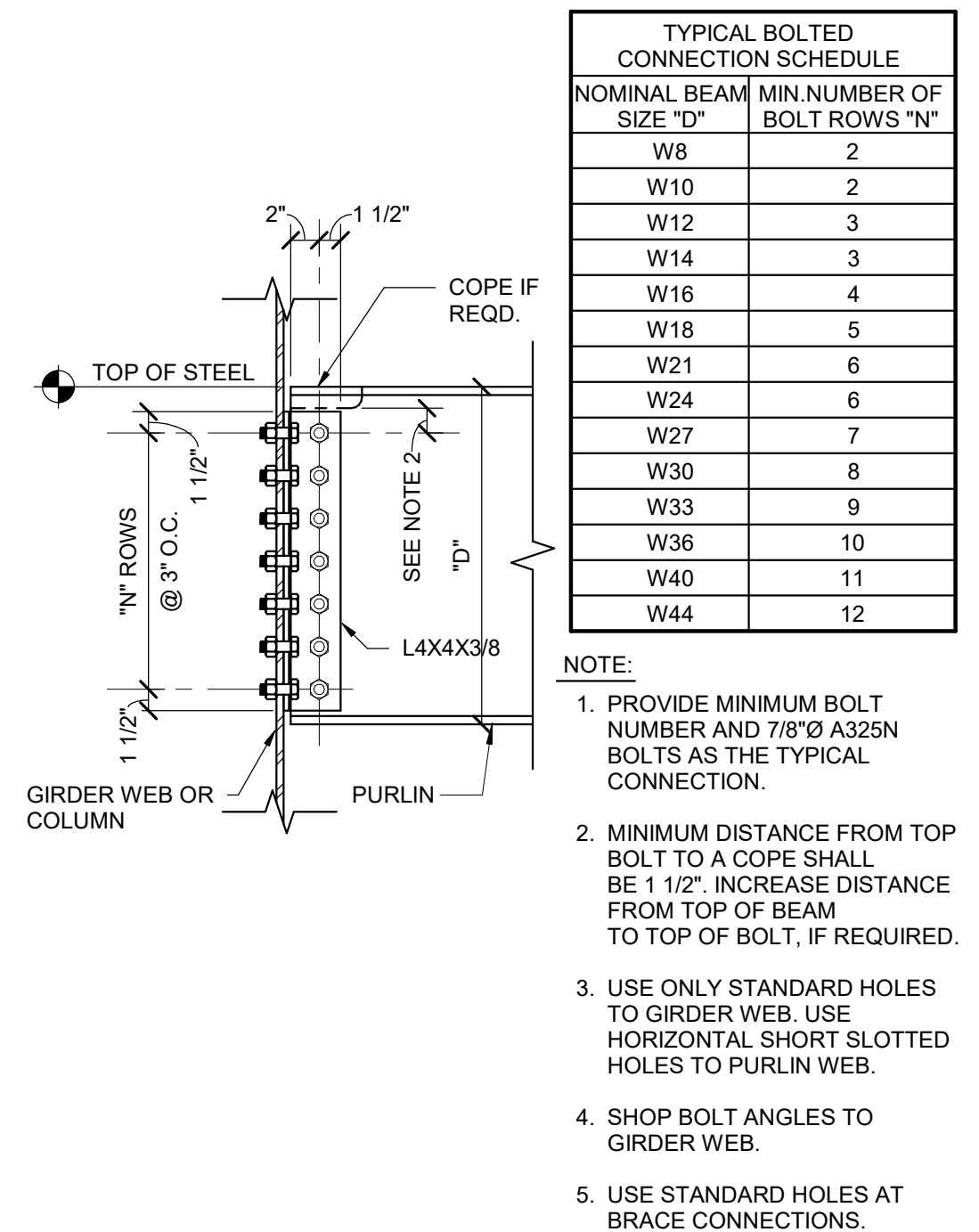
8 TYP. DECK SUPPORT @ HSS COLUMNS
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9 TYPICAL DOUBLE ANGLE CONNECTION
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10 TYPICAL SINGLE PLATE SHEAR CONNECTION DETAIL
SCALE = 1" = 1'-0"



11 TYPICAL SINGLE ANGLE SHEAR CONNECTION DETAIL
SCALE = 1" = 1'-0"

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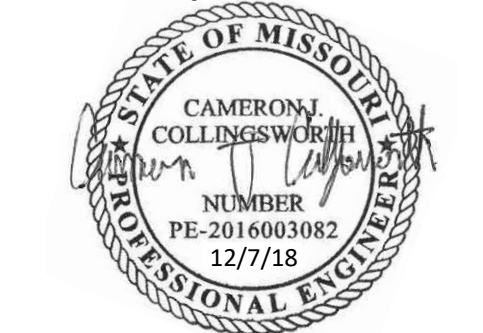
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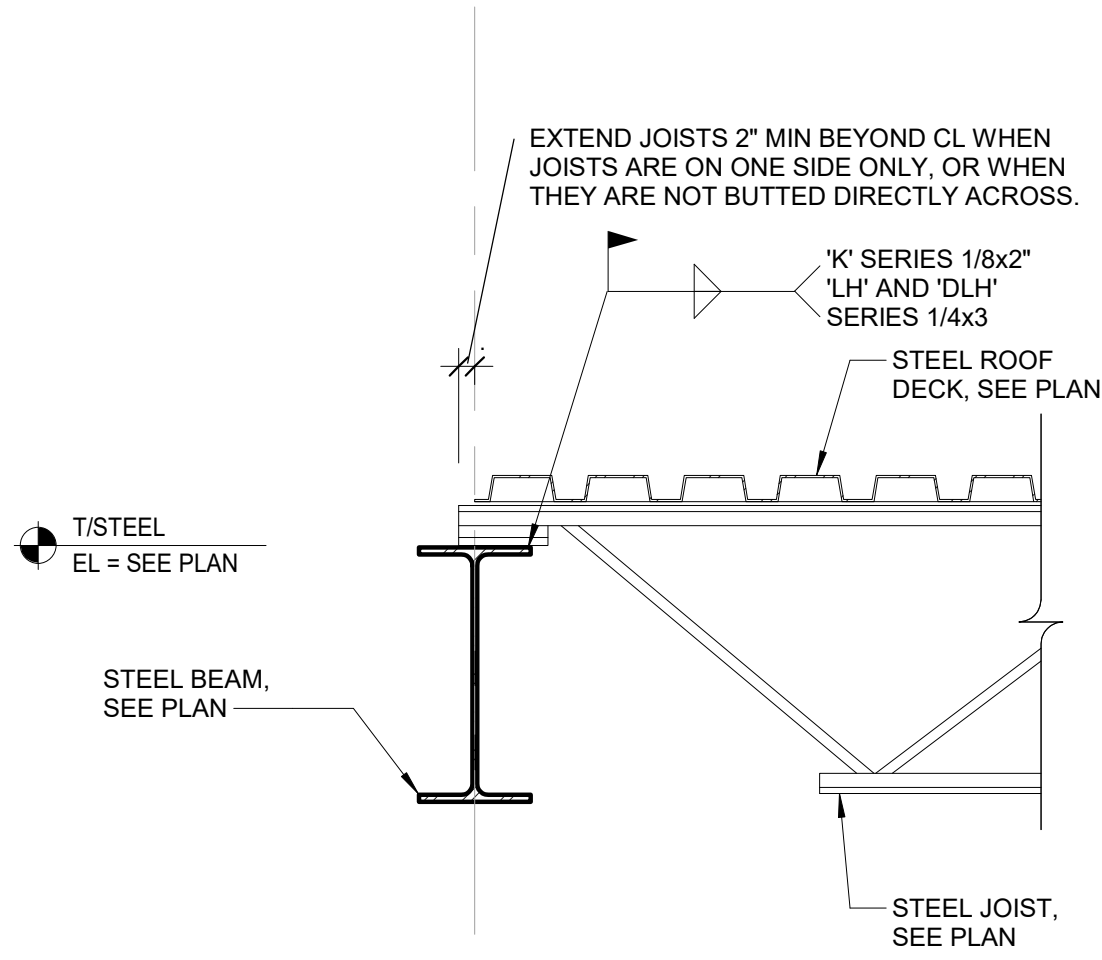
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A FOR CLIENT REVIEW 09/07/2018

Project No. Date Drawn
018-0330 09/07/2018 Author

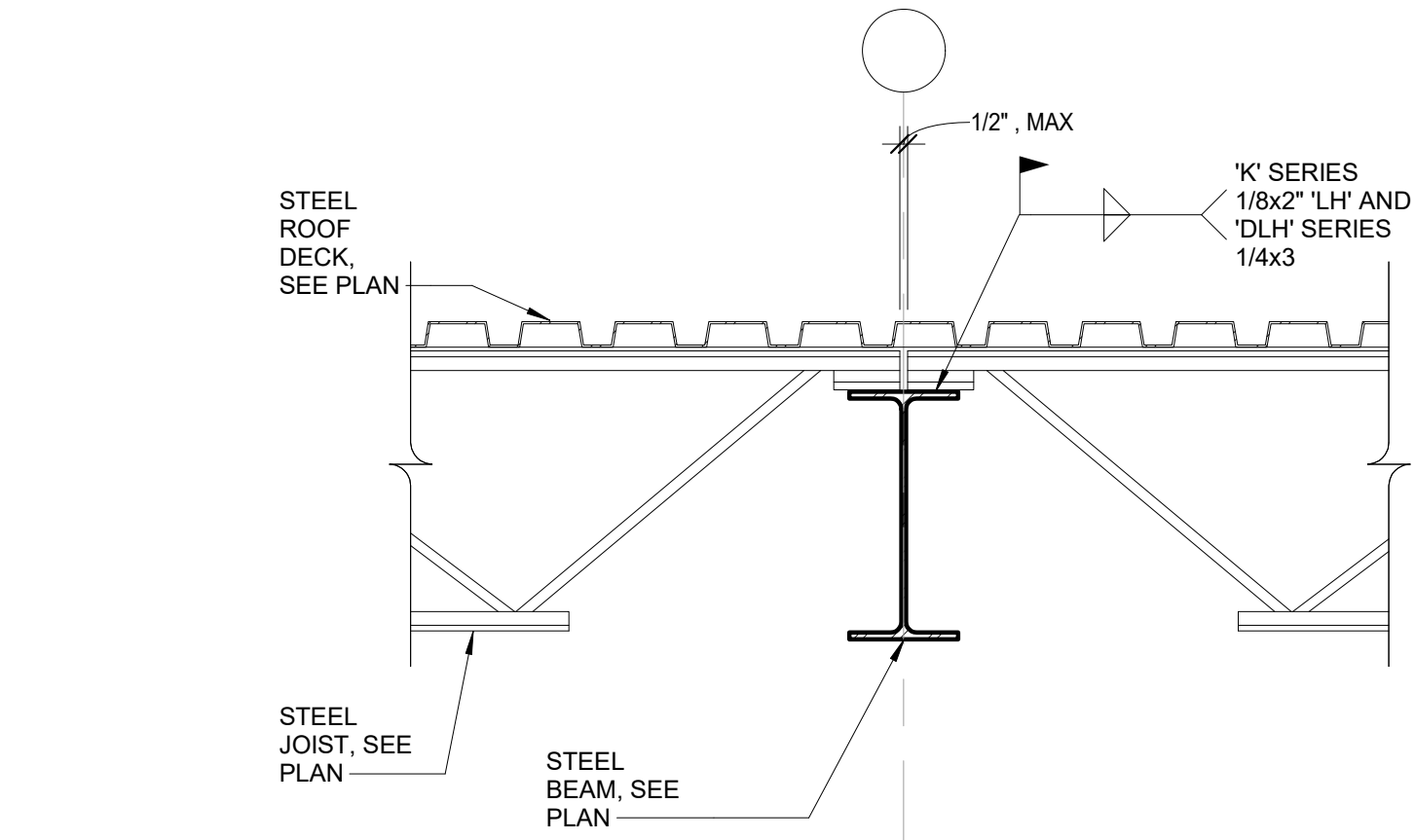
Drawing No.

S500
TYPICAL STEEL SECTIONS
AND DETAILS

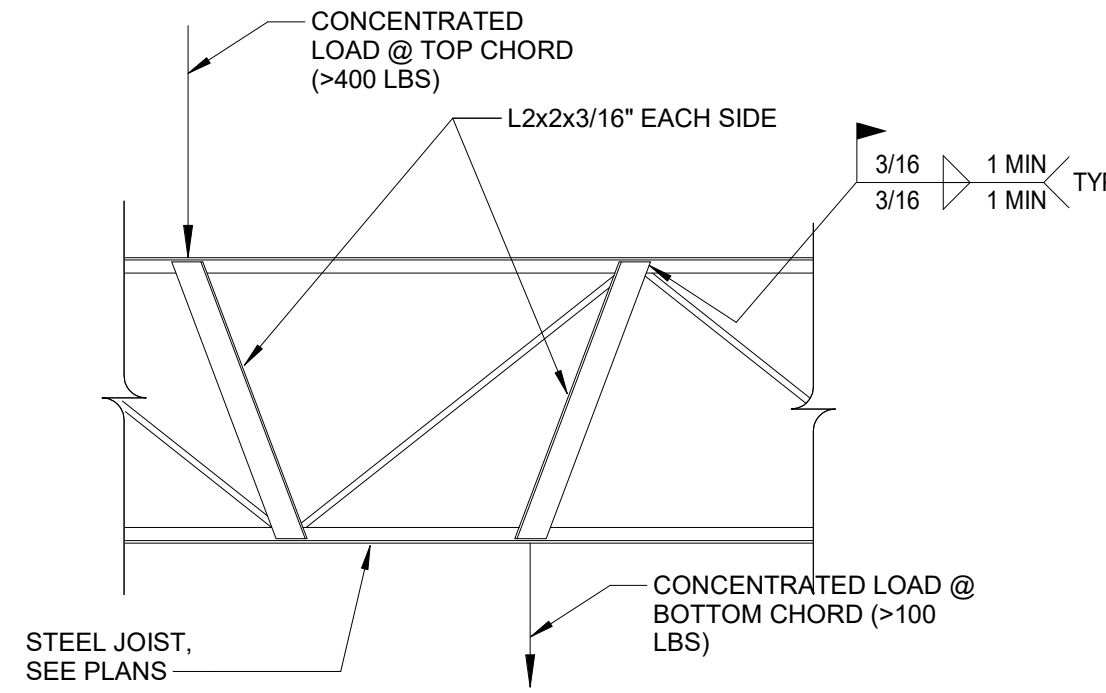
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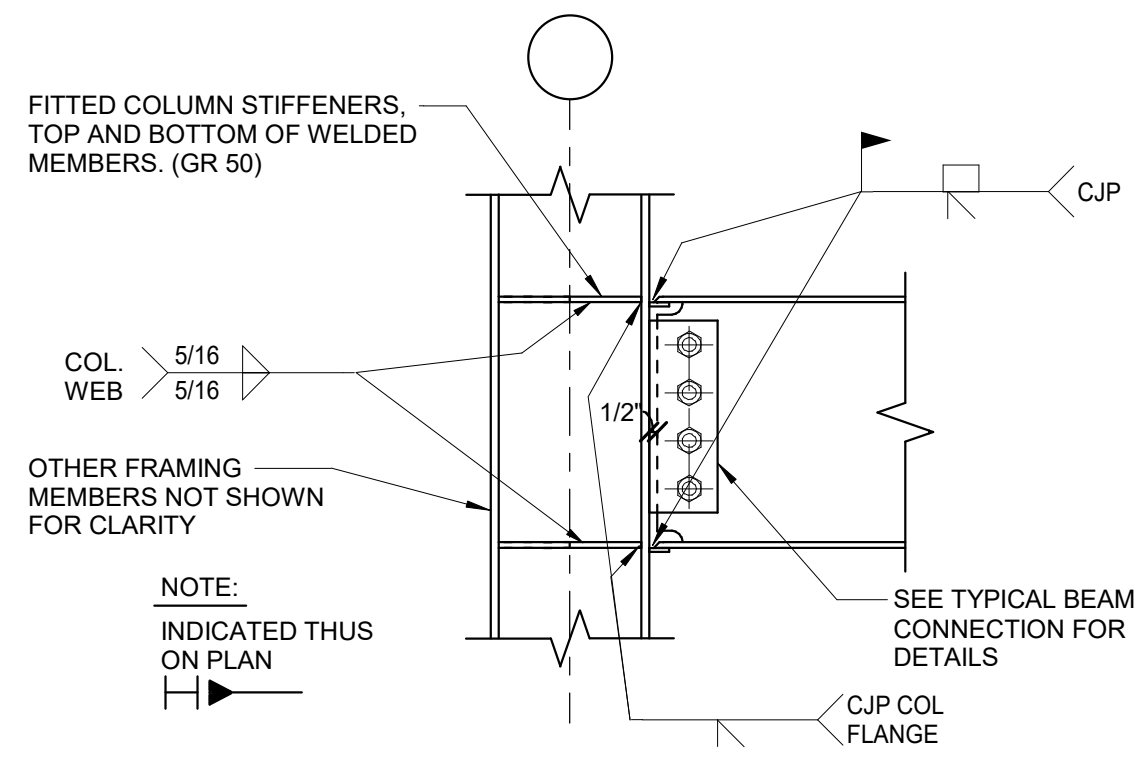
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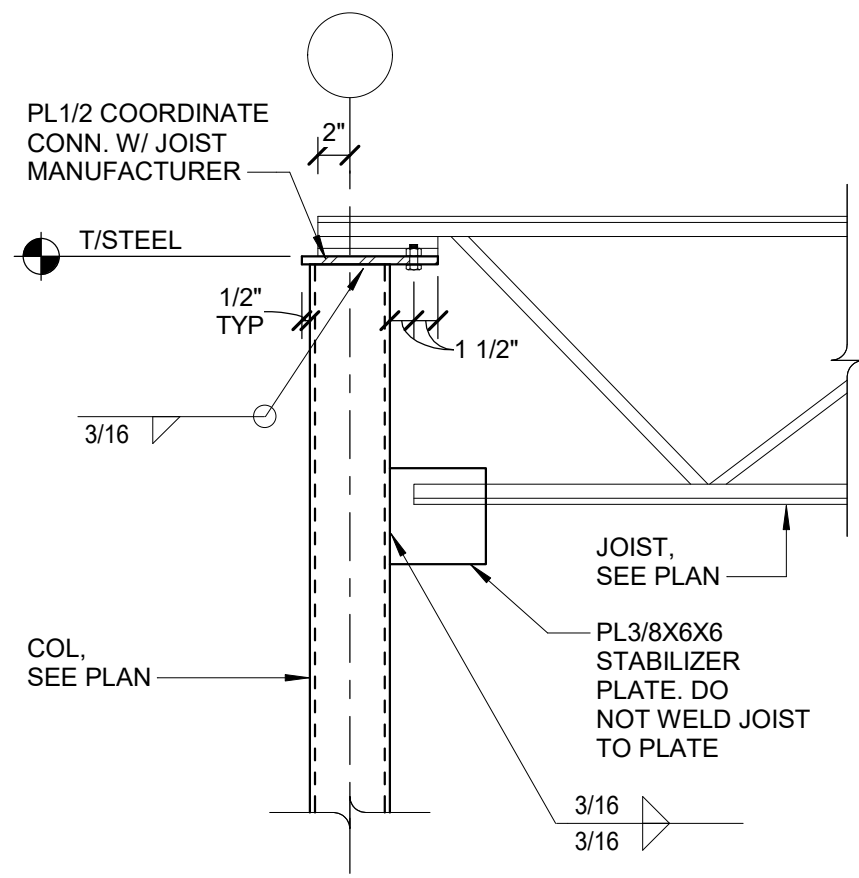
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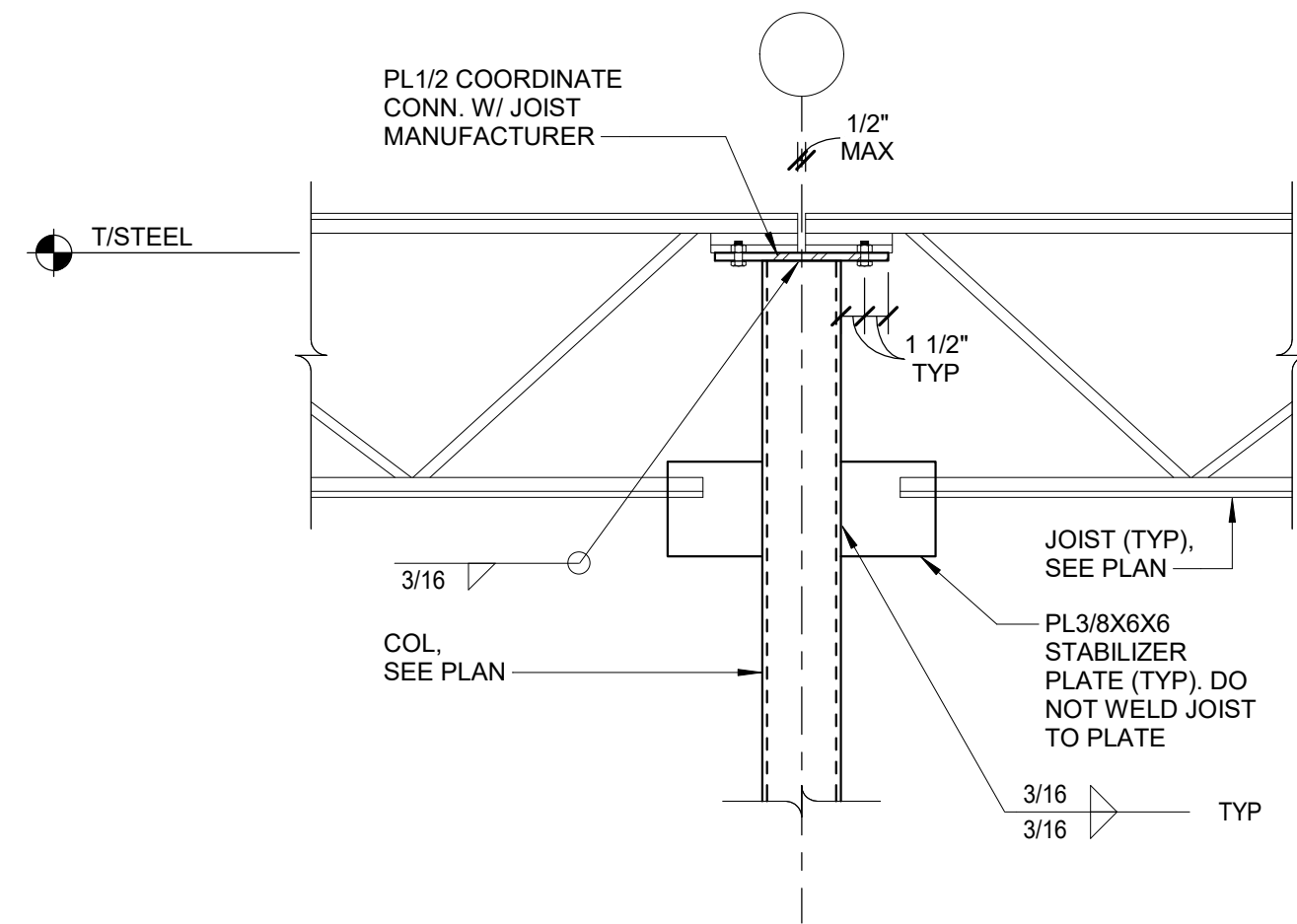
3 TYPICAL JOIST REINFORCING DETAIL
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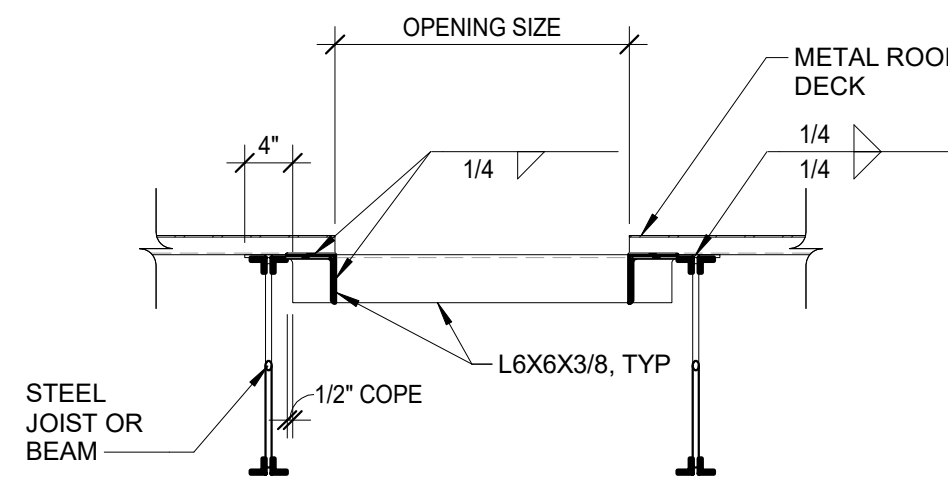
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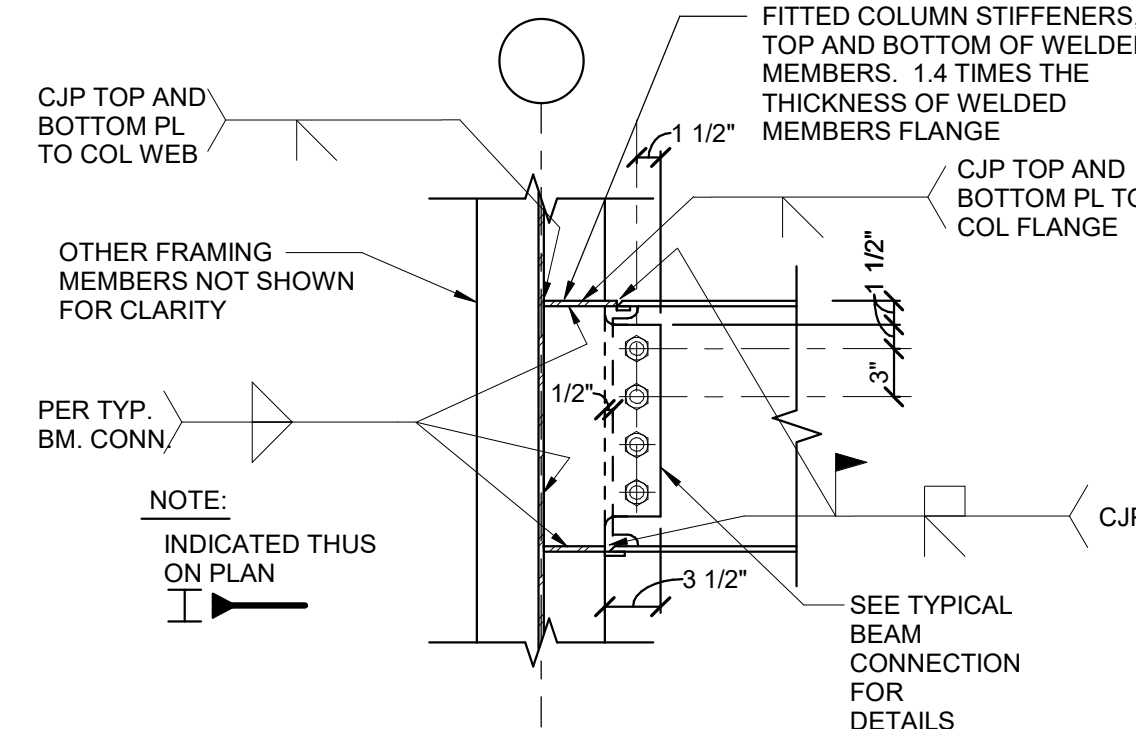
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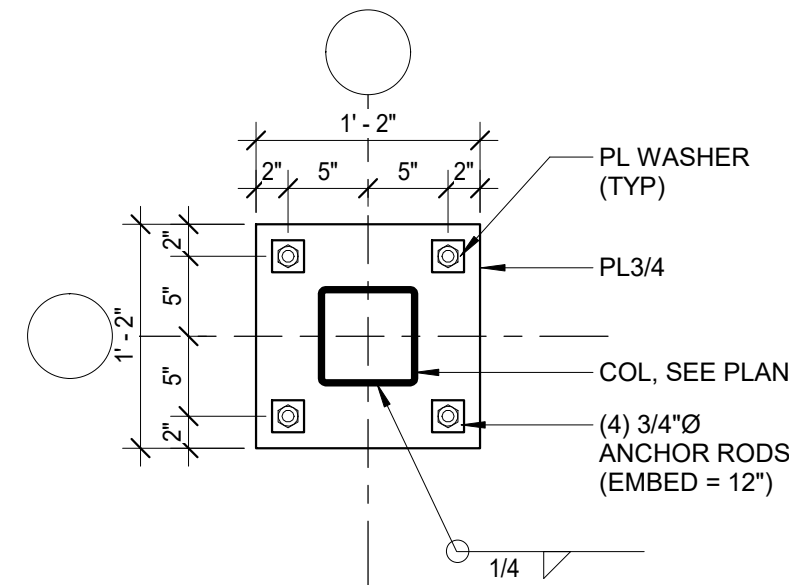
6 TYPICAL JOIST TO COLUMN CONNECTION AT INTERIOR COLUMN
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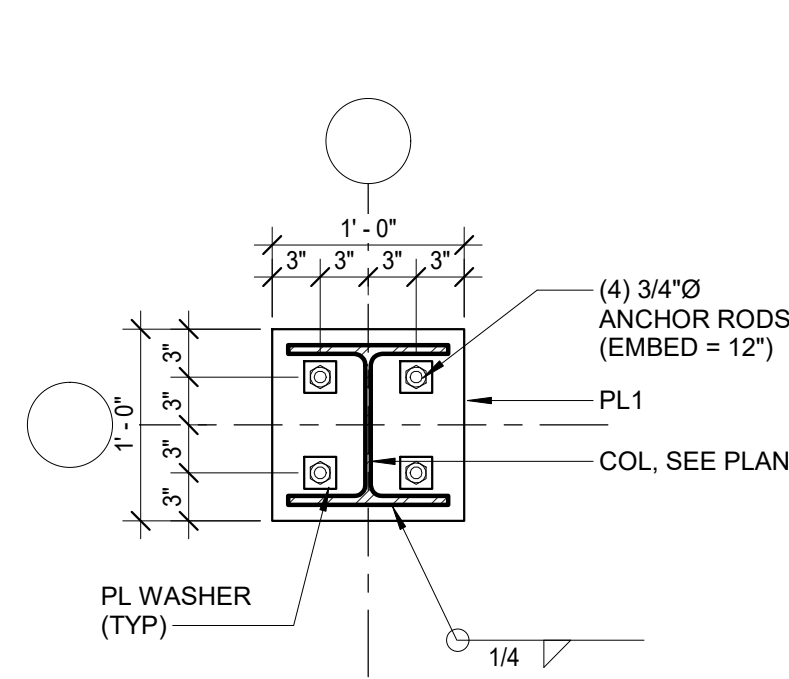
7 TYPICAL ROOF OPENING DETAIL
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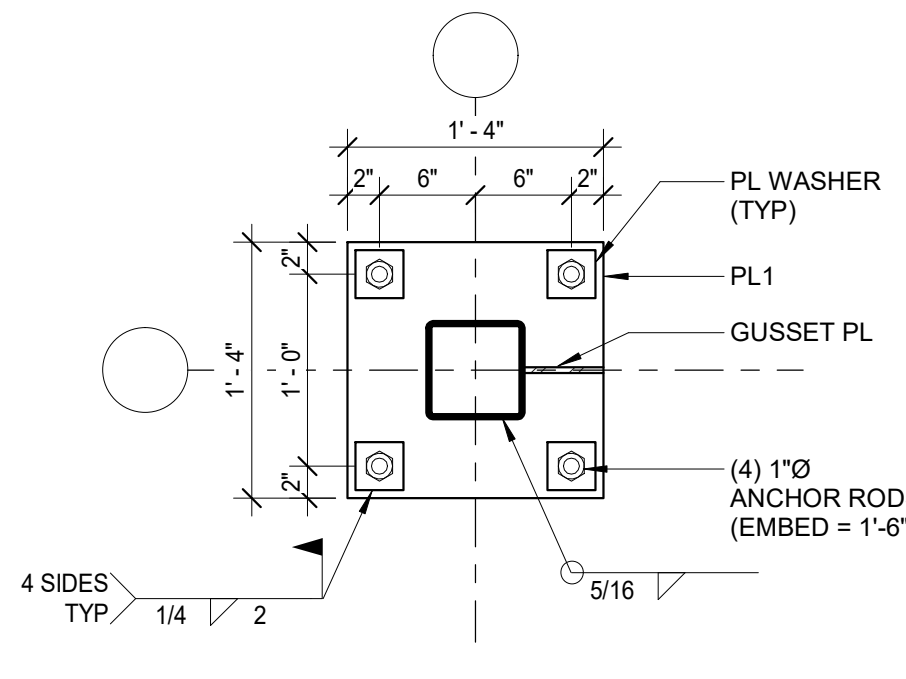
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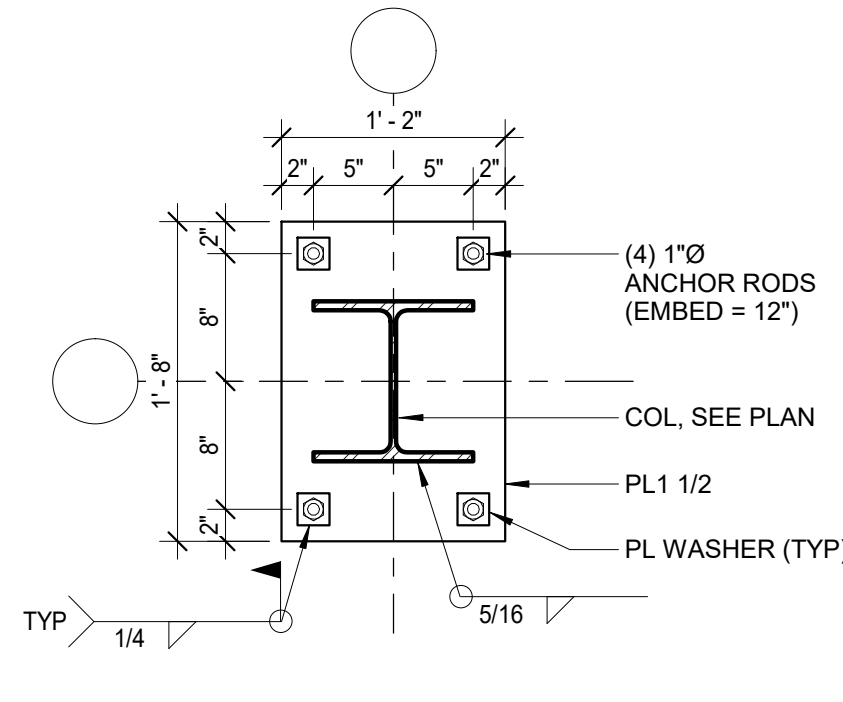
9 BP1 DETAIL
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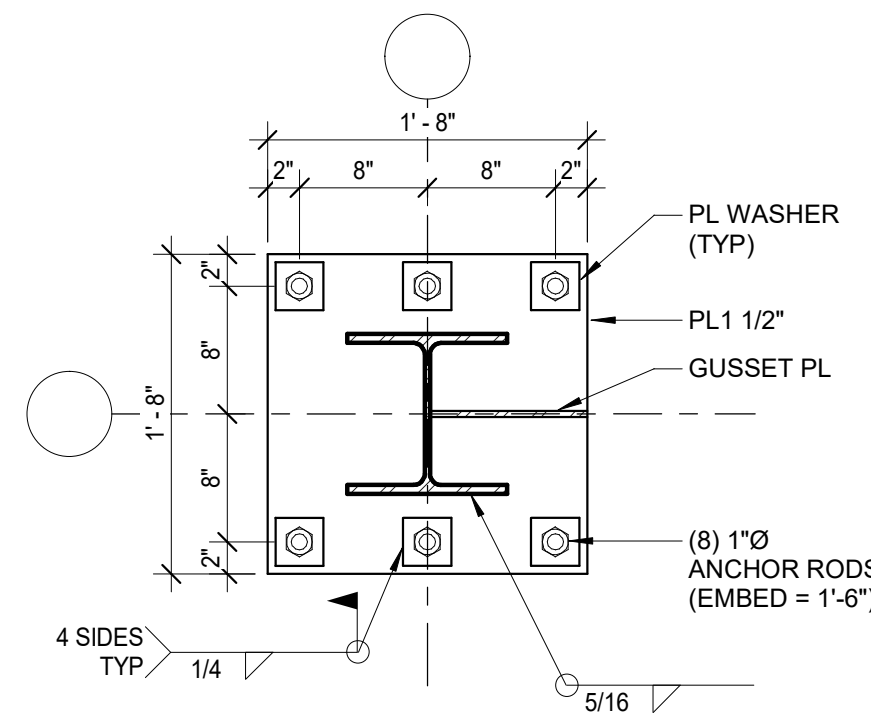
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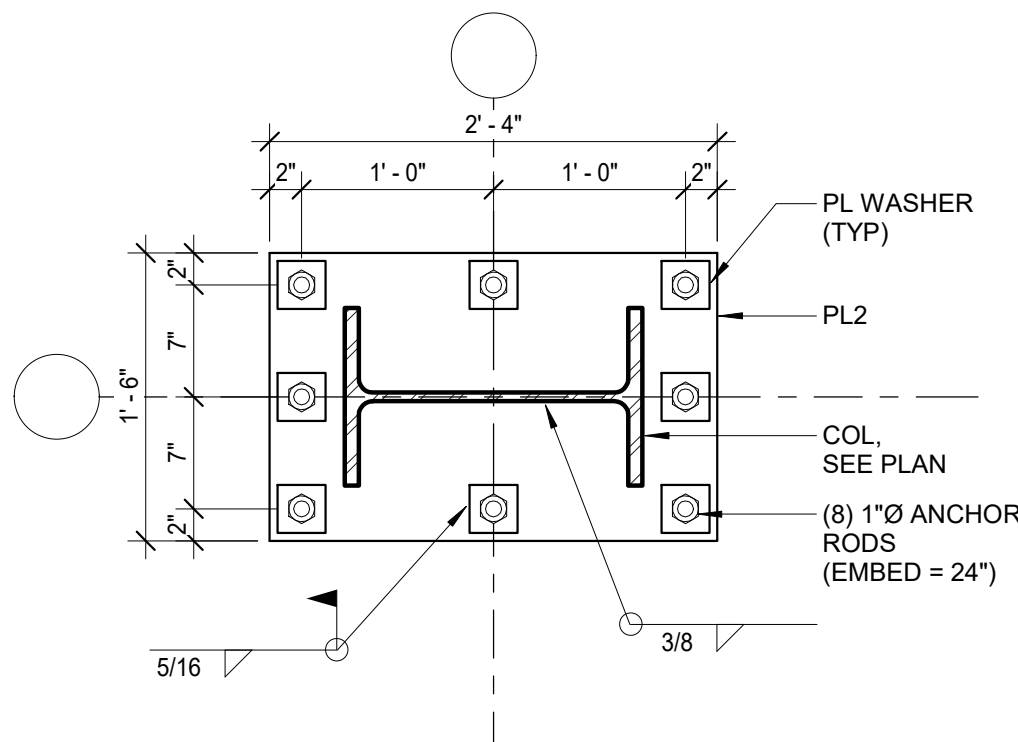
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12 BP4 DETAIL
SCALE = 1" = 1'-0"



13 BP5 DETAIL
SCALE = 1" = 1'-0"



14 BP6 DETAIL
SCALE = 1" = 1'-0"

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Revision No.	Description	Date
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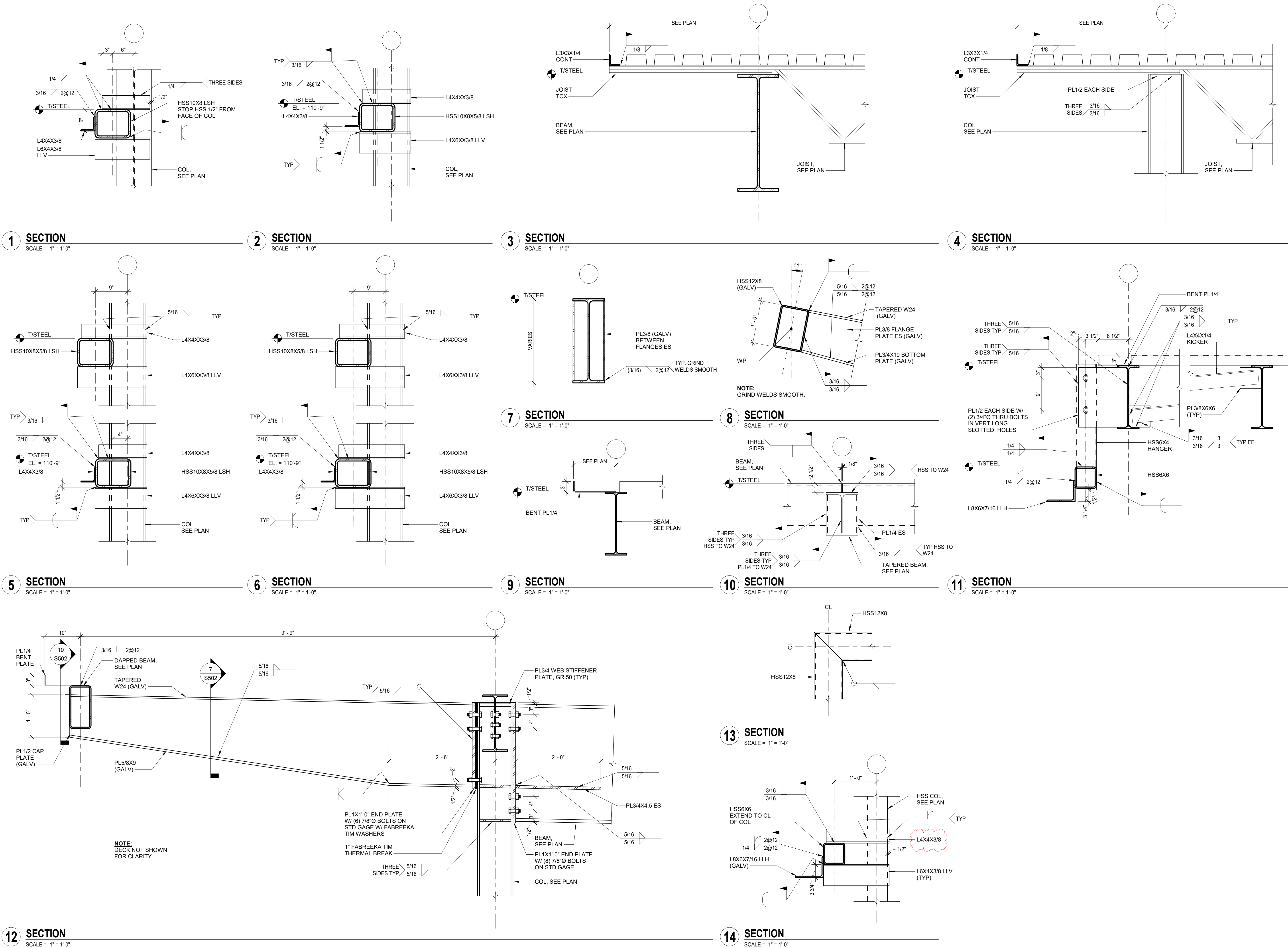
Project No.	Date	Drawn
018-0330	09/07/2018	Author

Drawing No.

S501

TYPICAL STEEL SECTIONS
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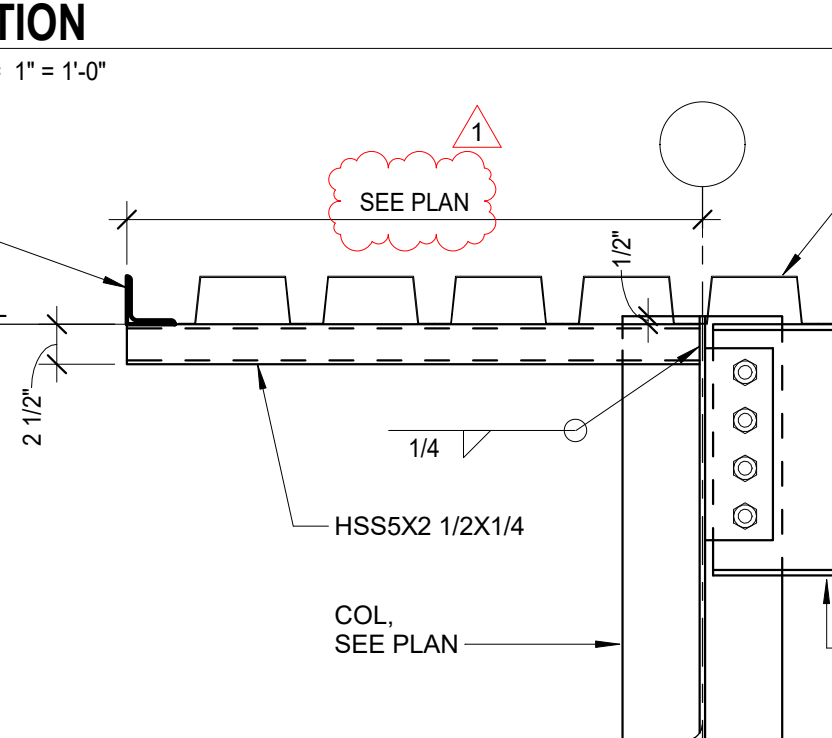
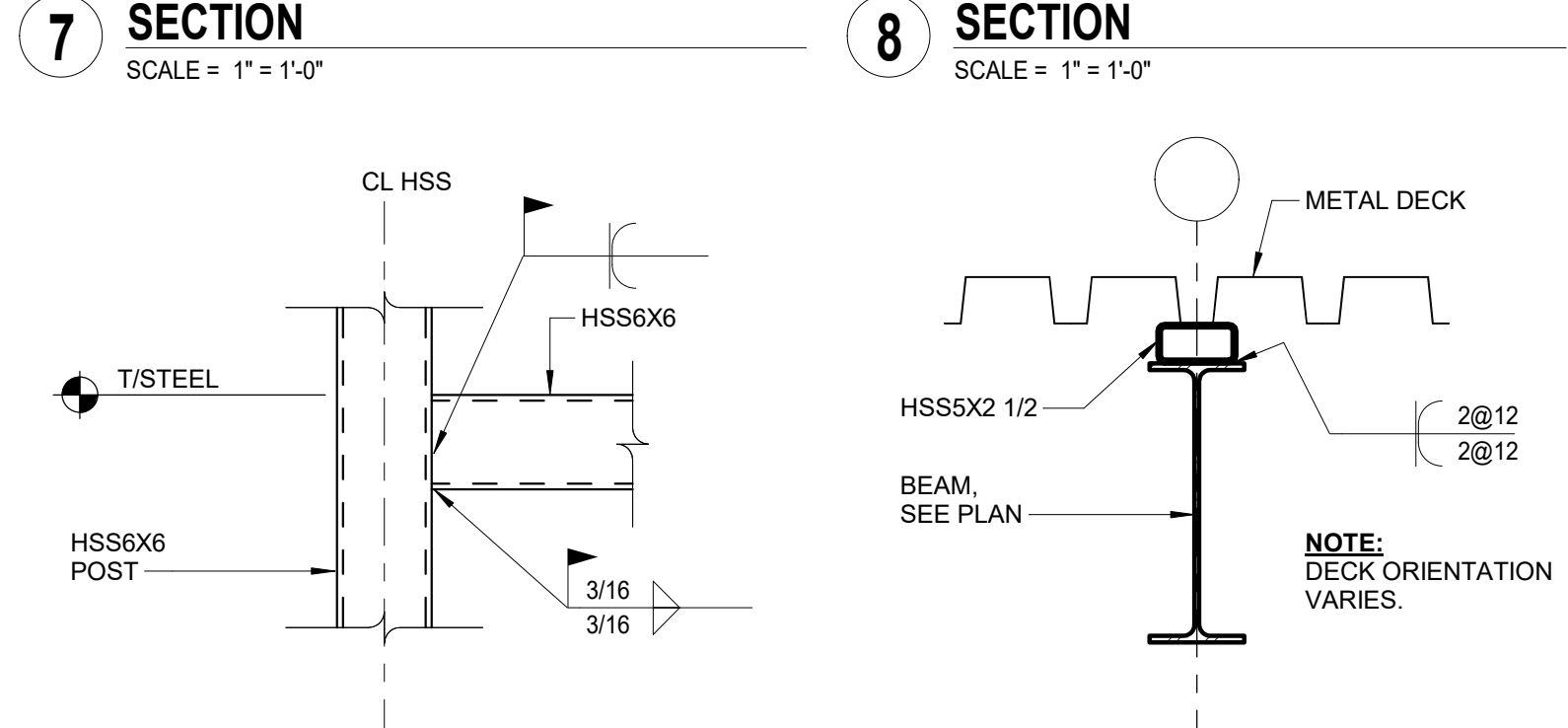
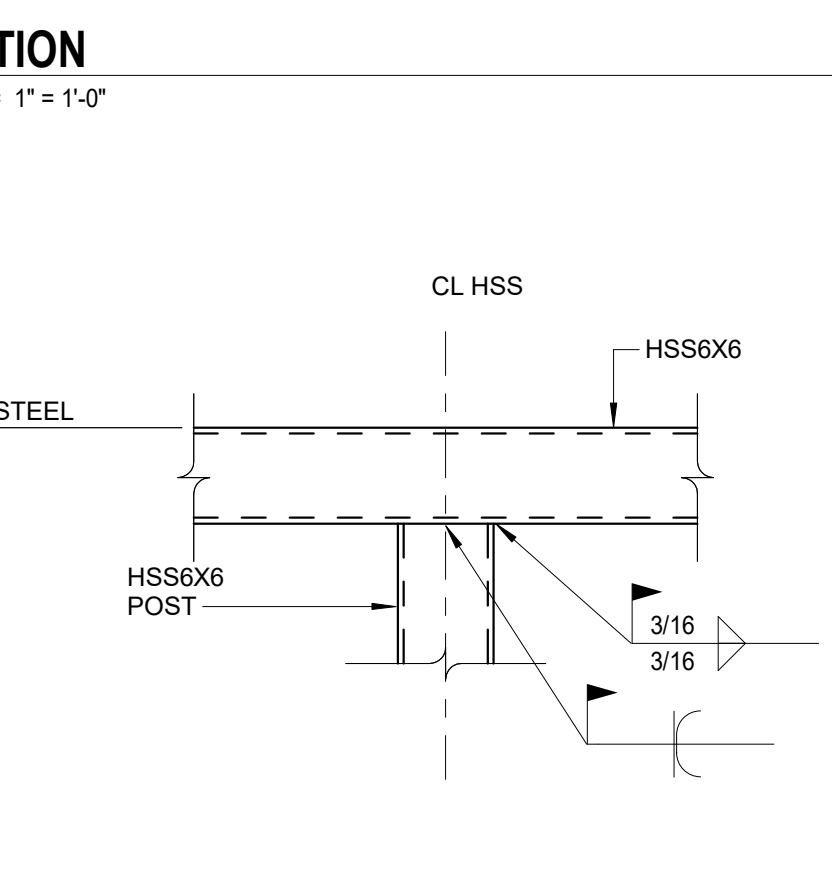
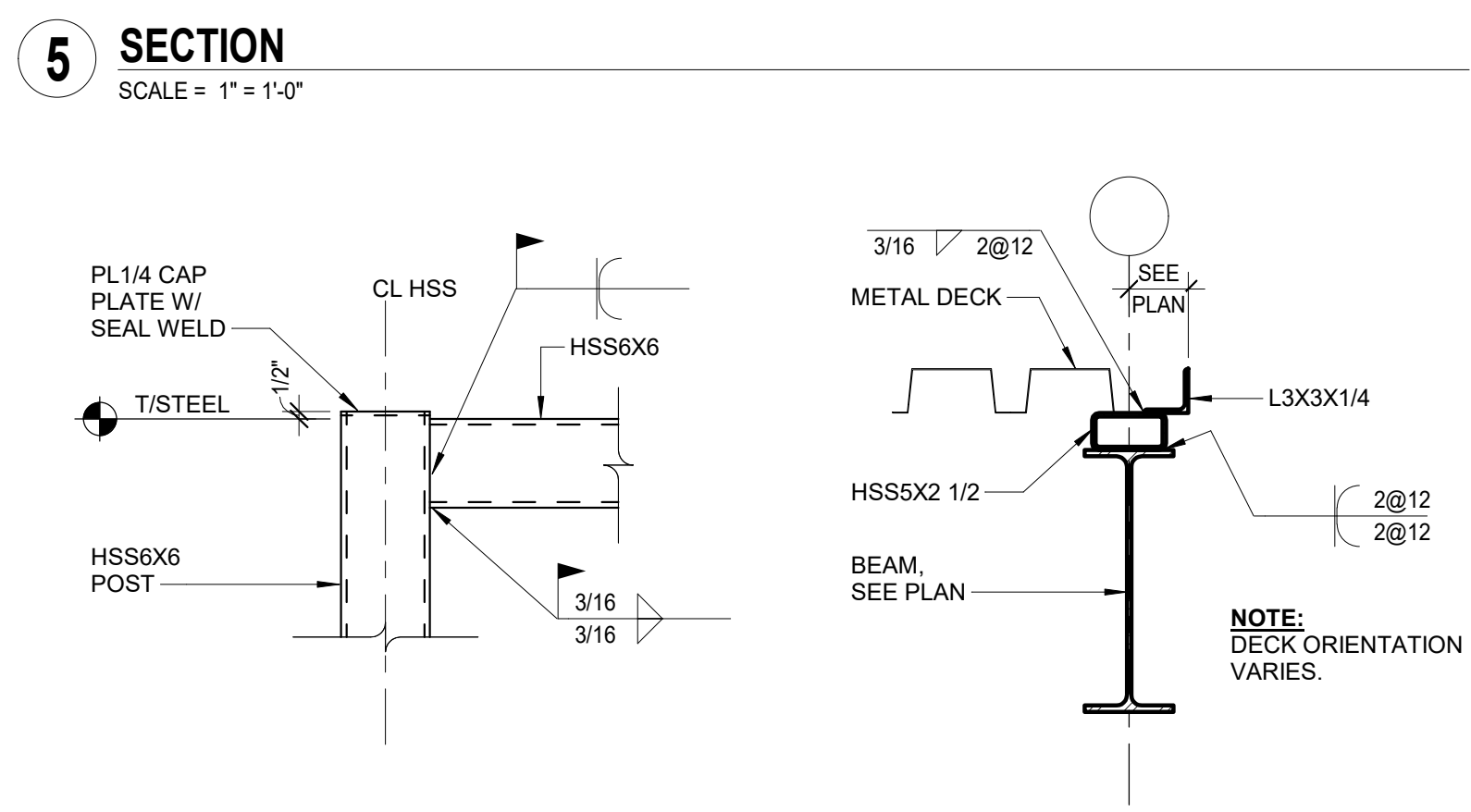
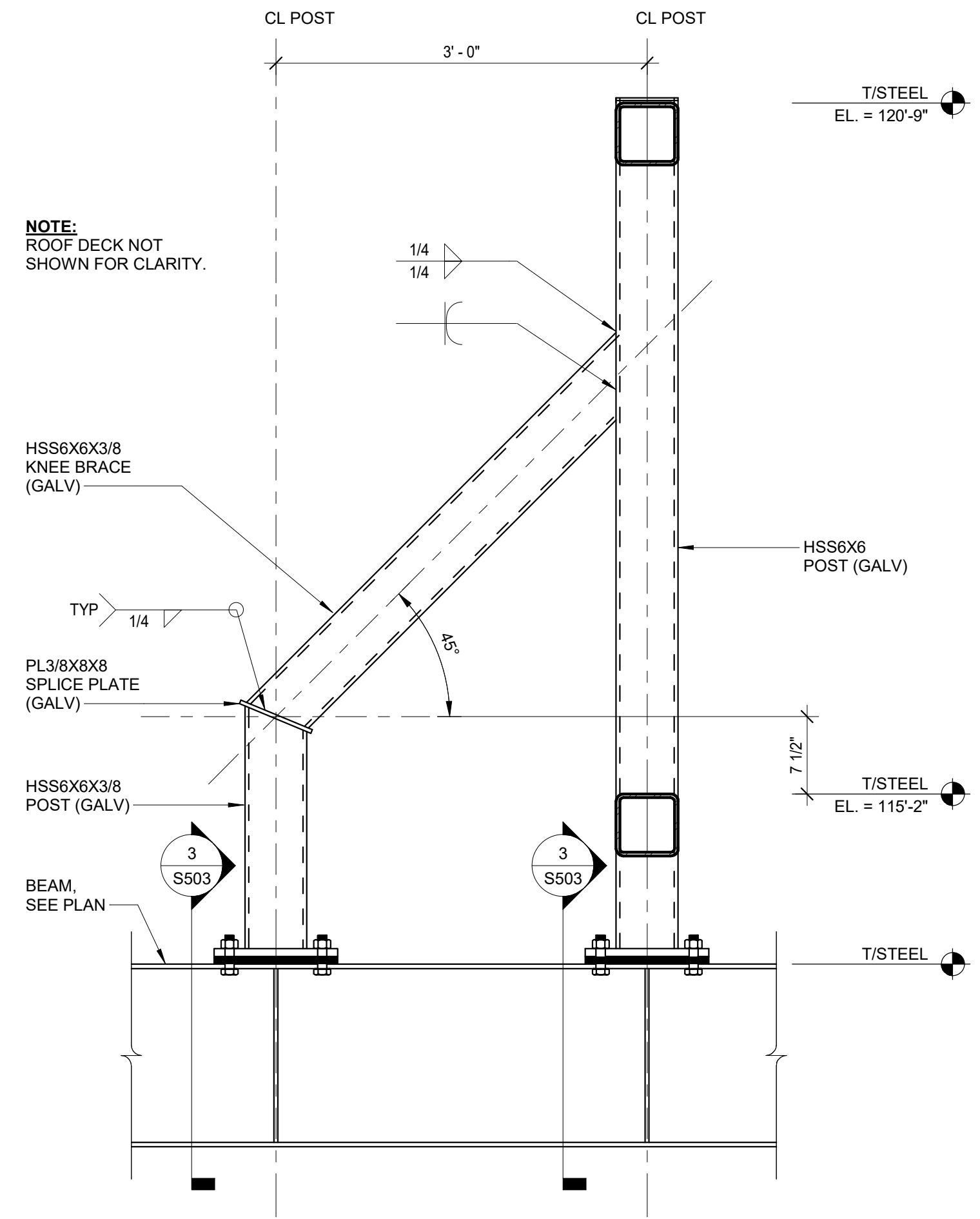
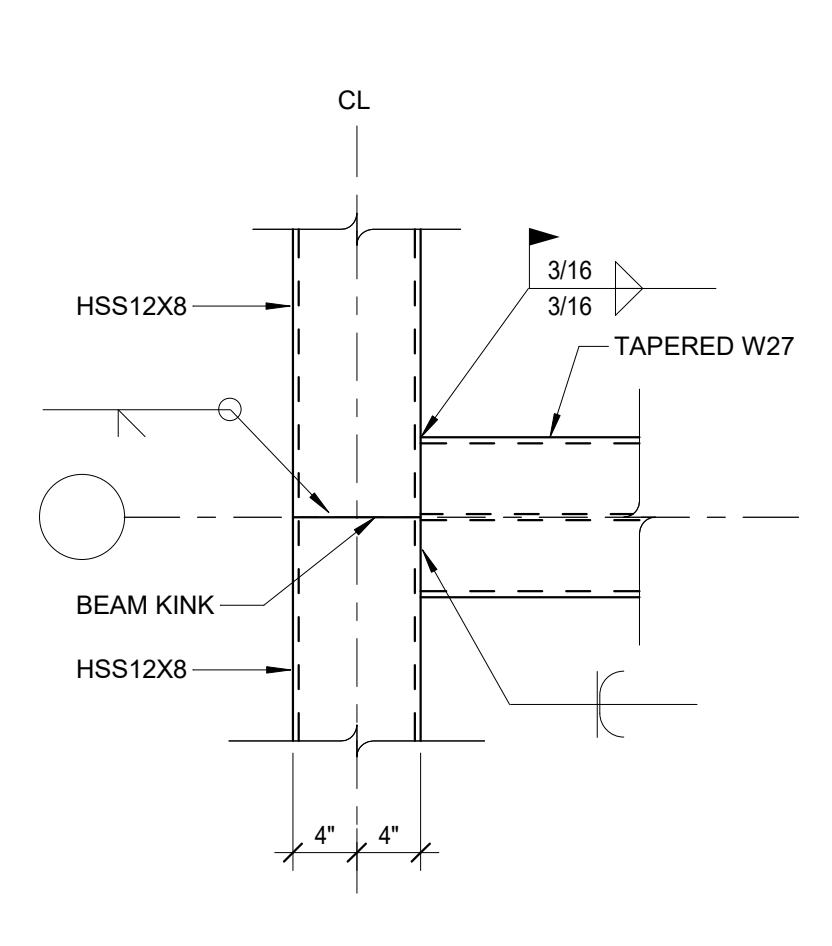
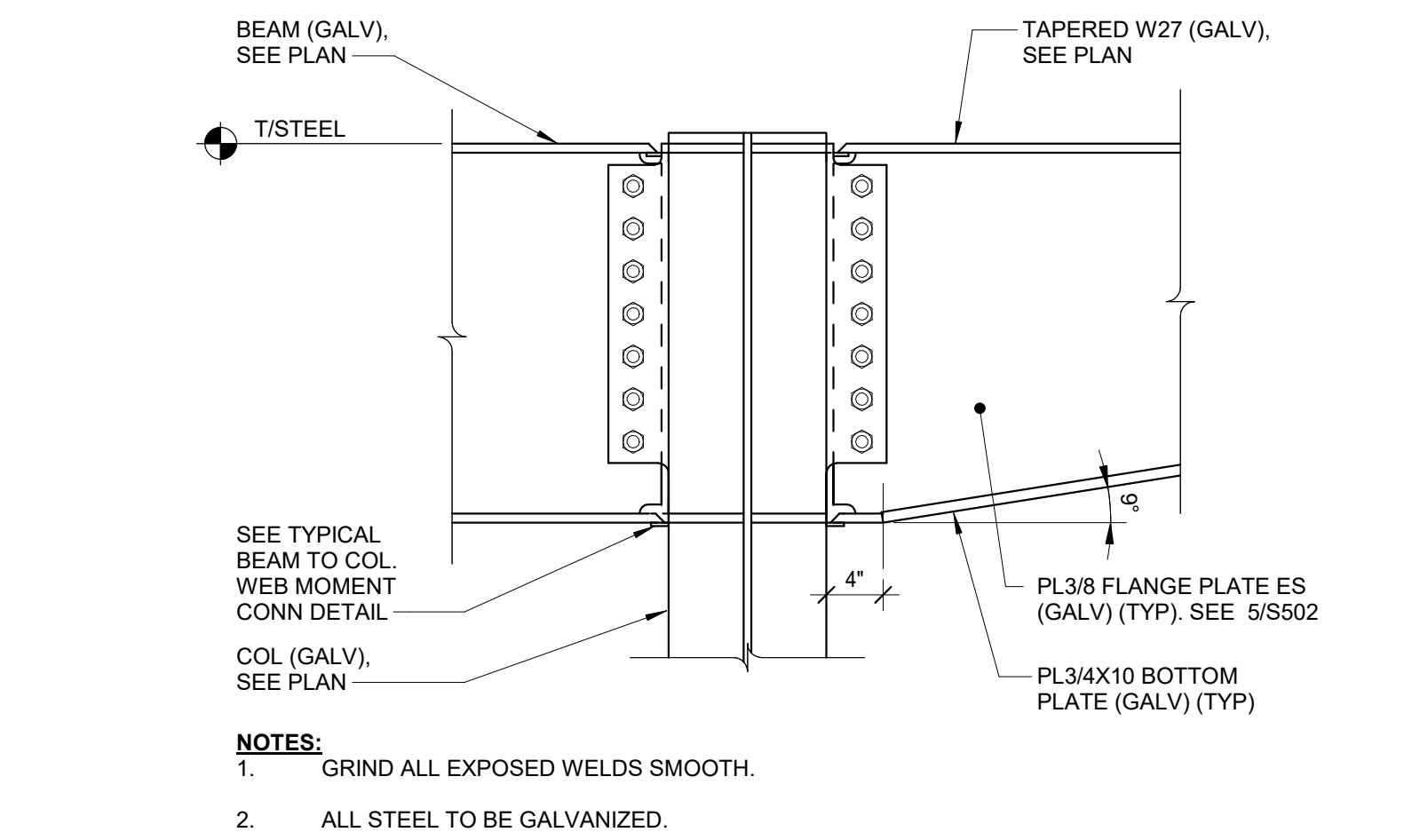
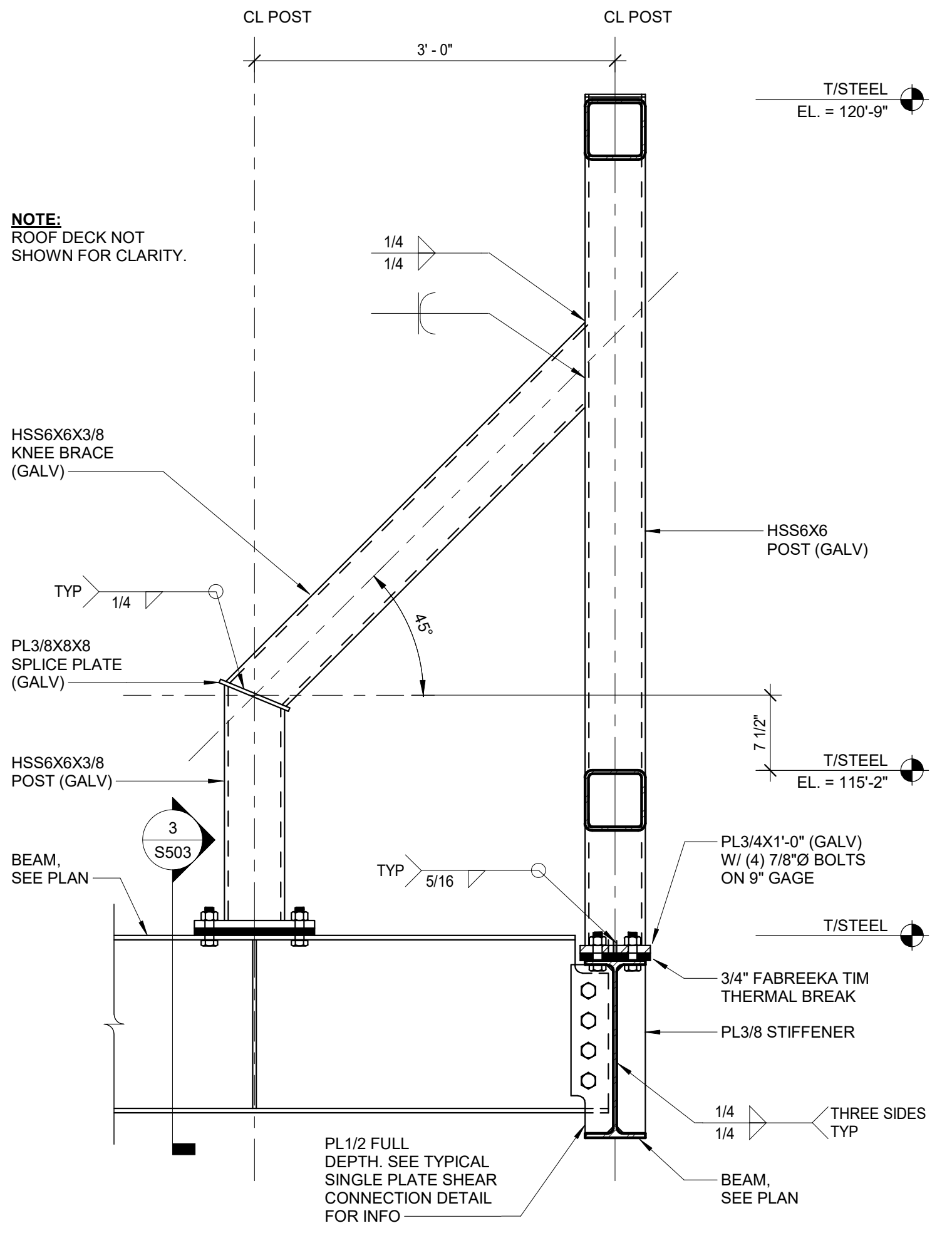
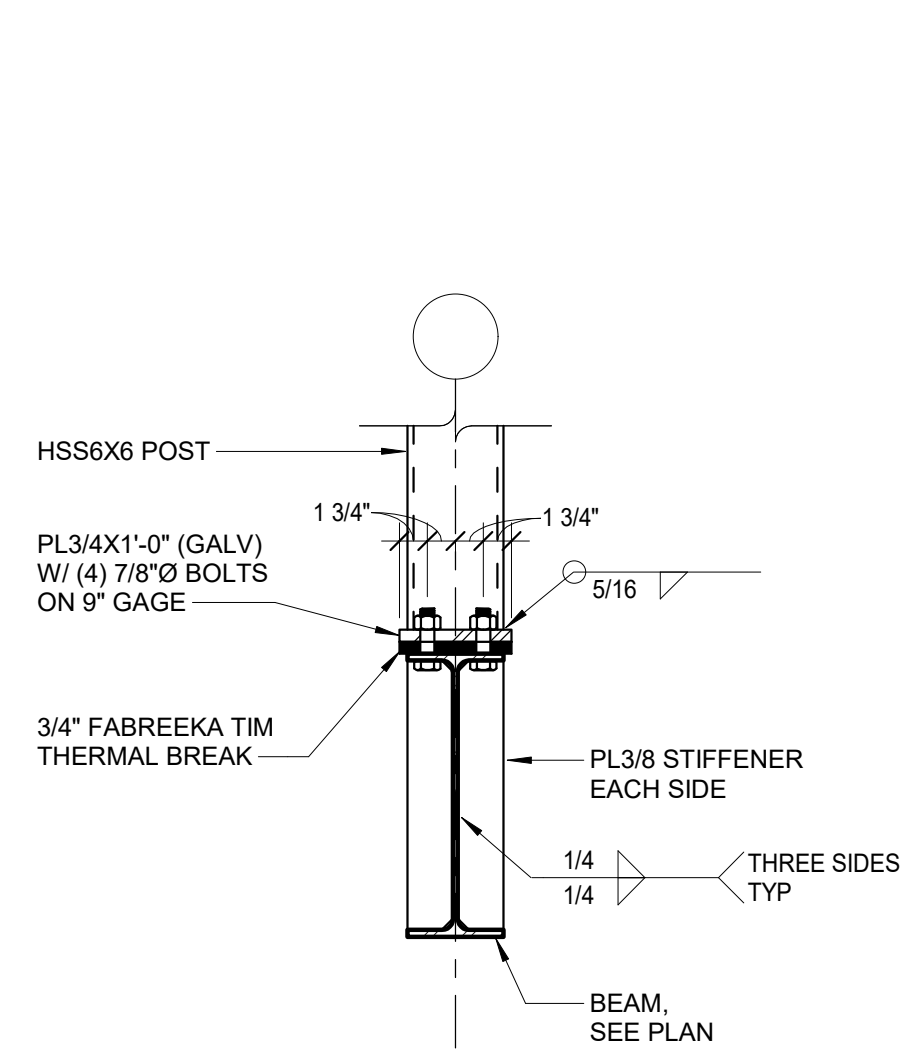
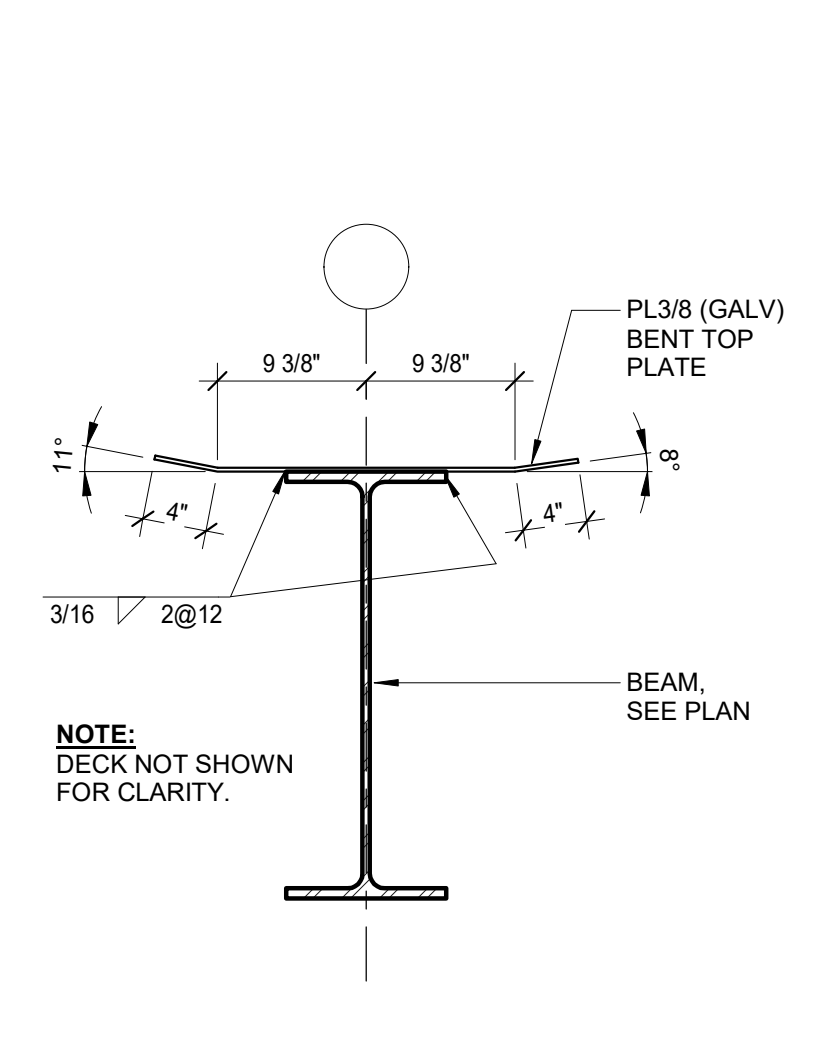
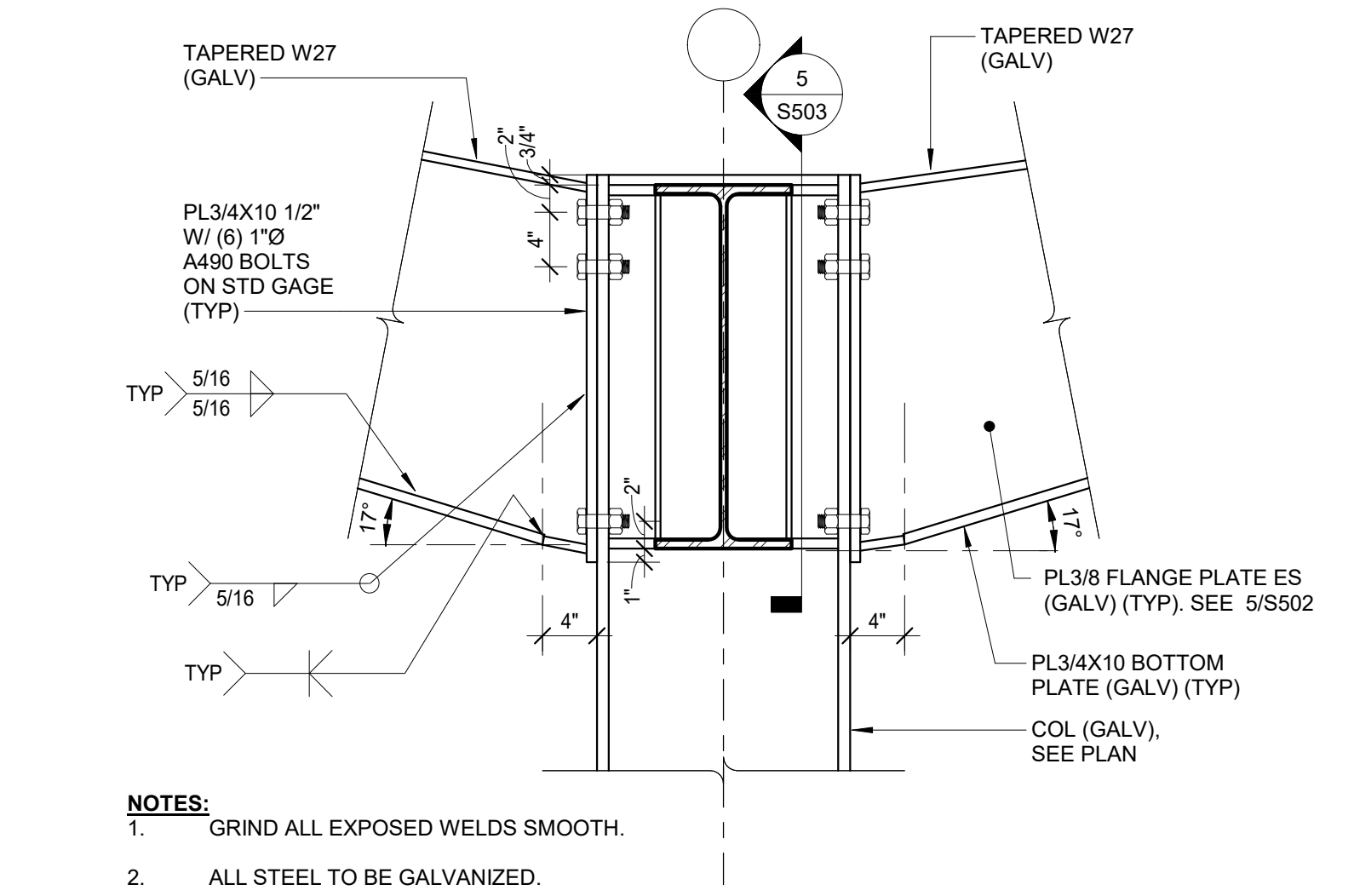
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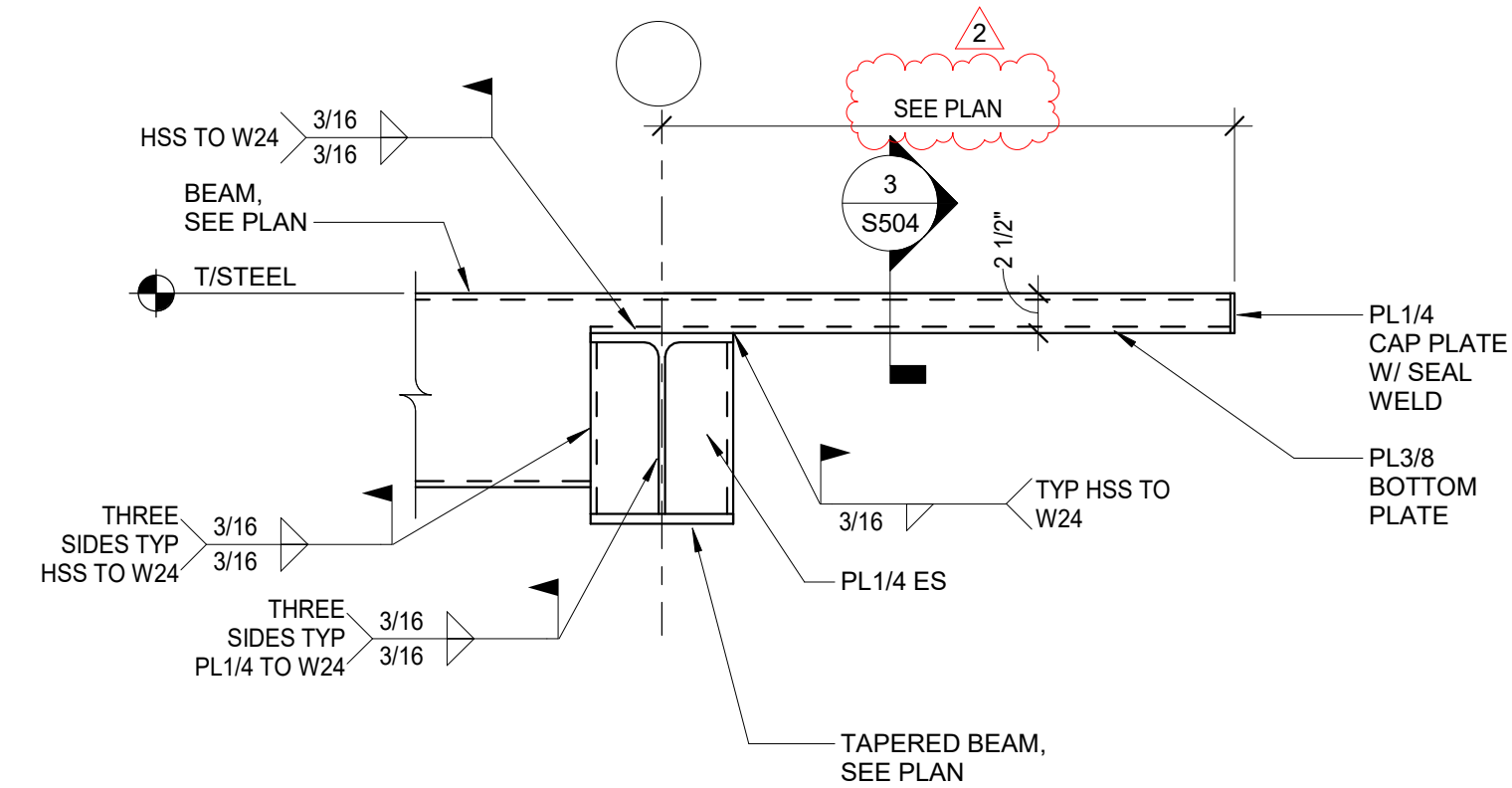
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Revision No.	Description	Date
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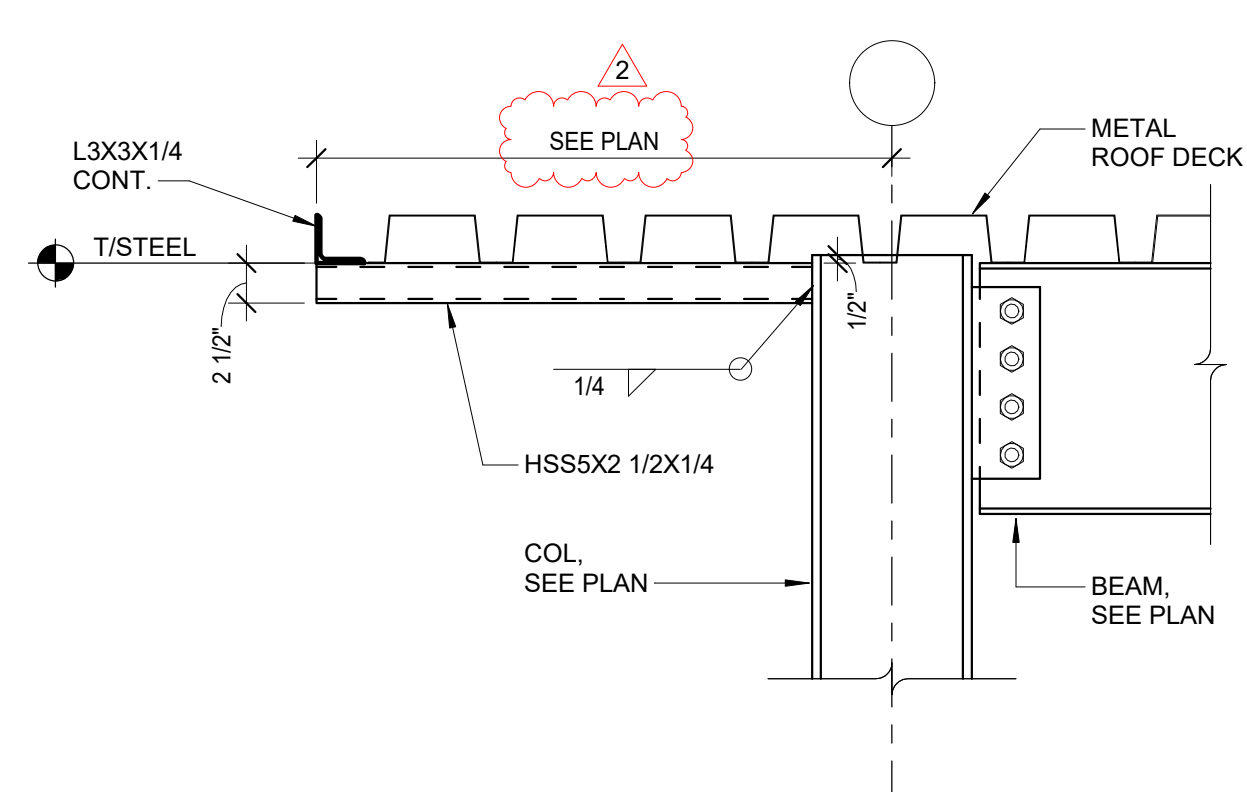
Project No.	Date	Drawn
018-0330	09/07/2018	Author

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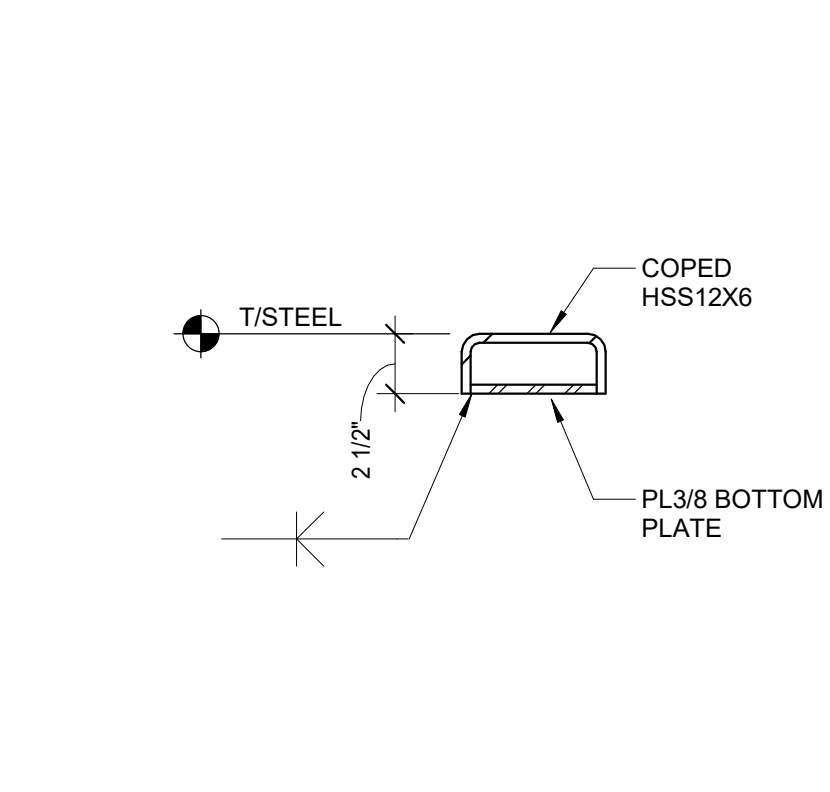




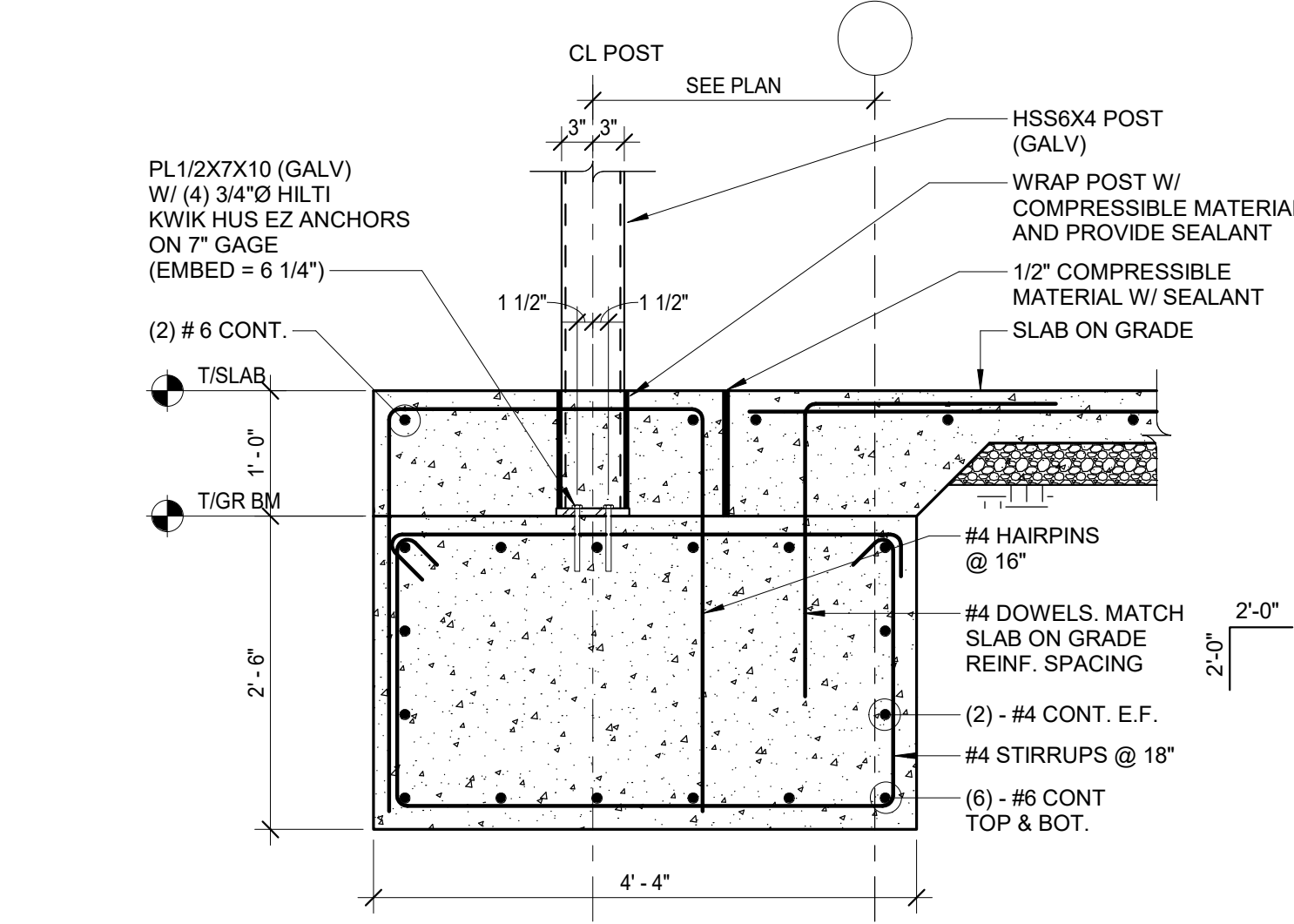
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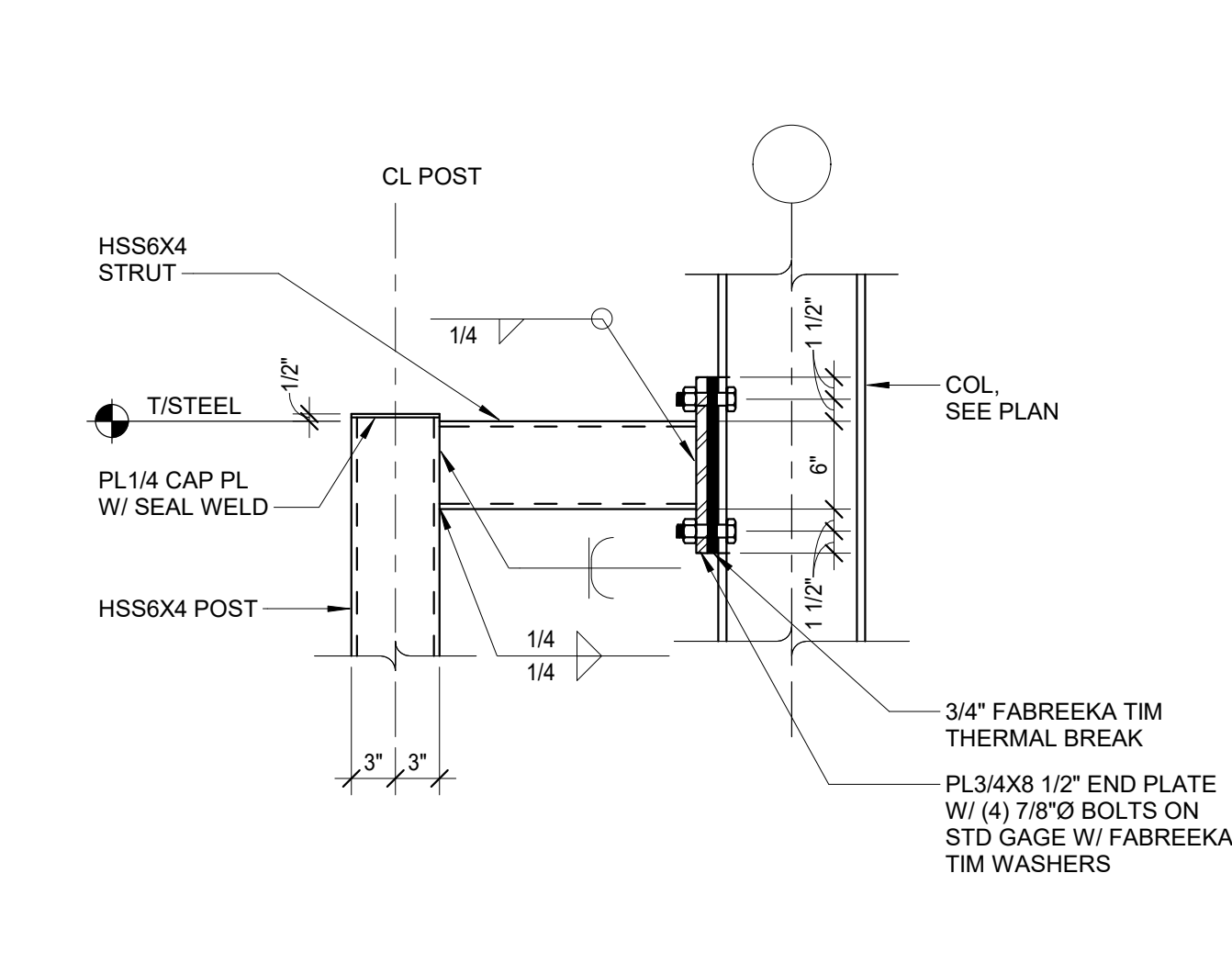
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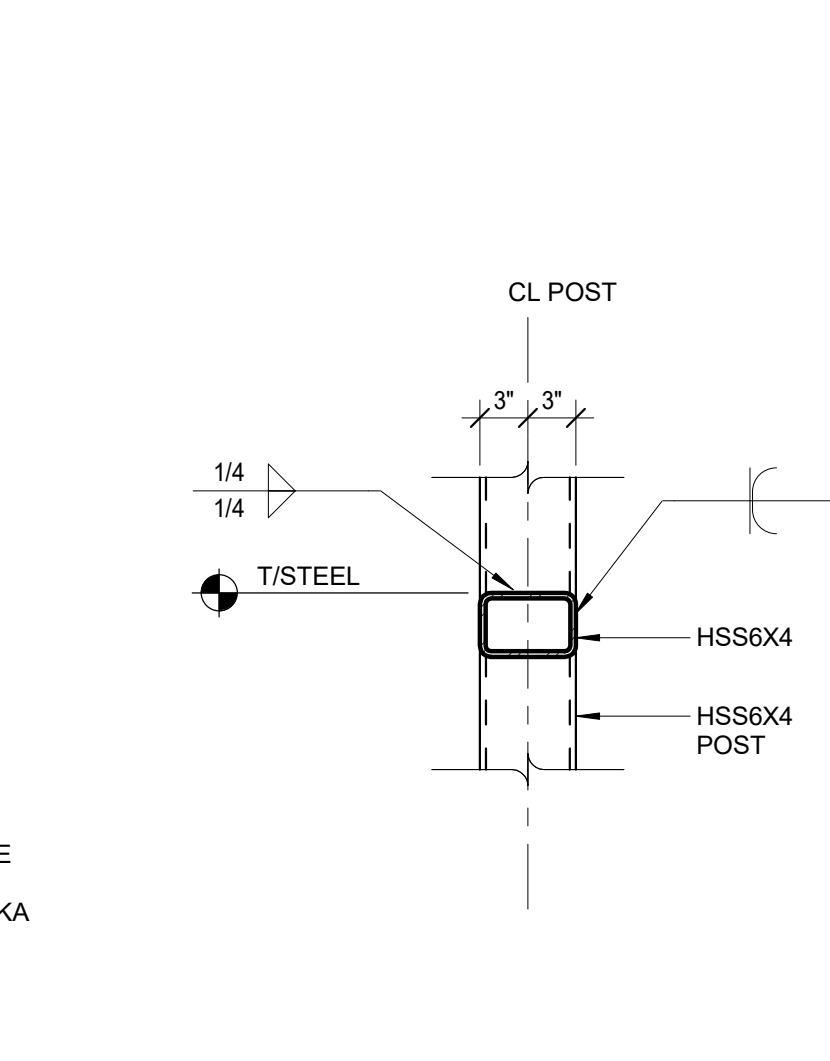
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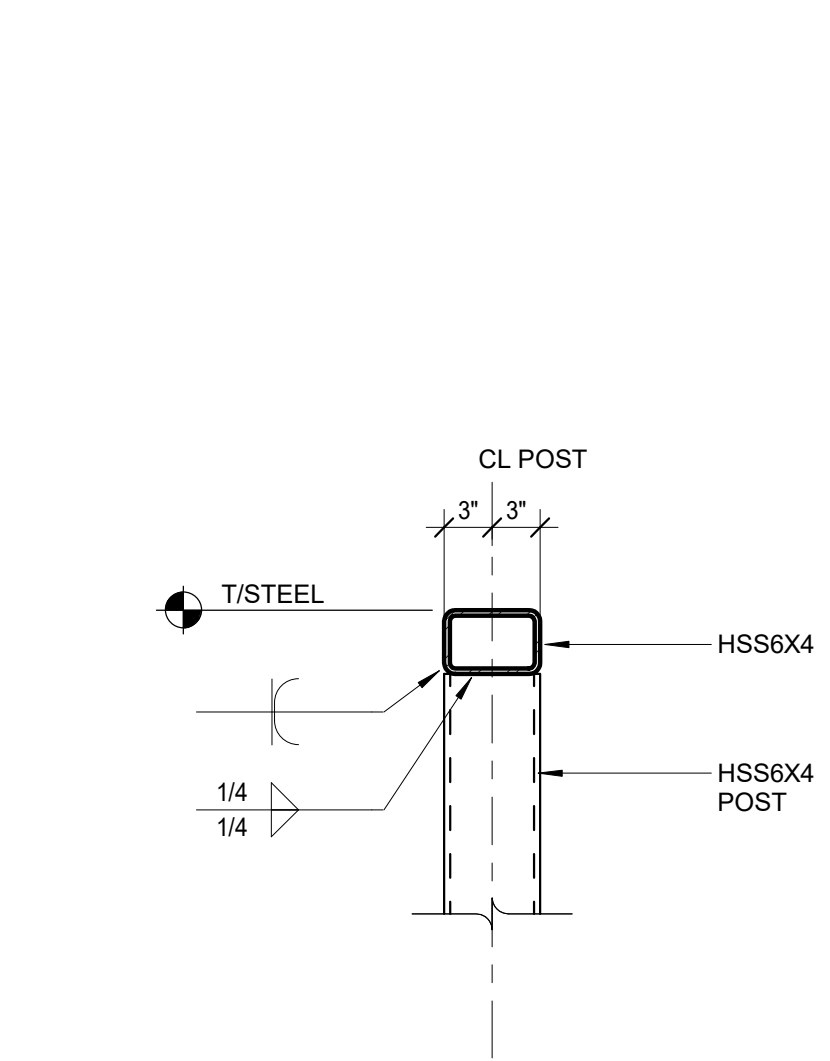
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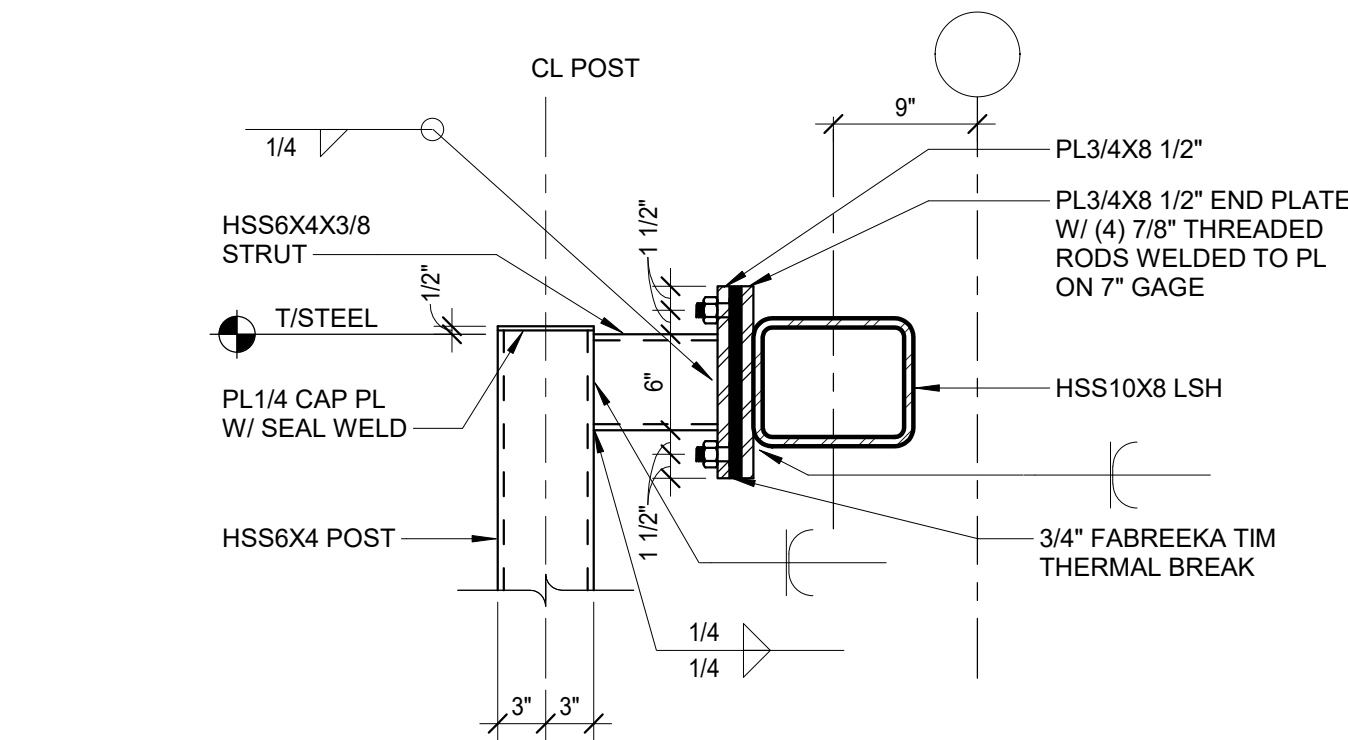
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6 SECTION
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7 SECTION
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8 SECTION
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1

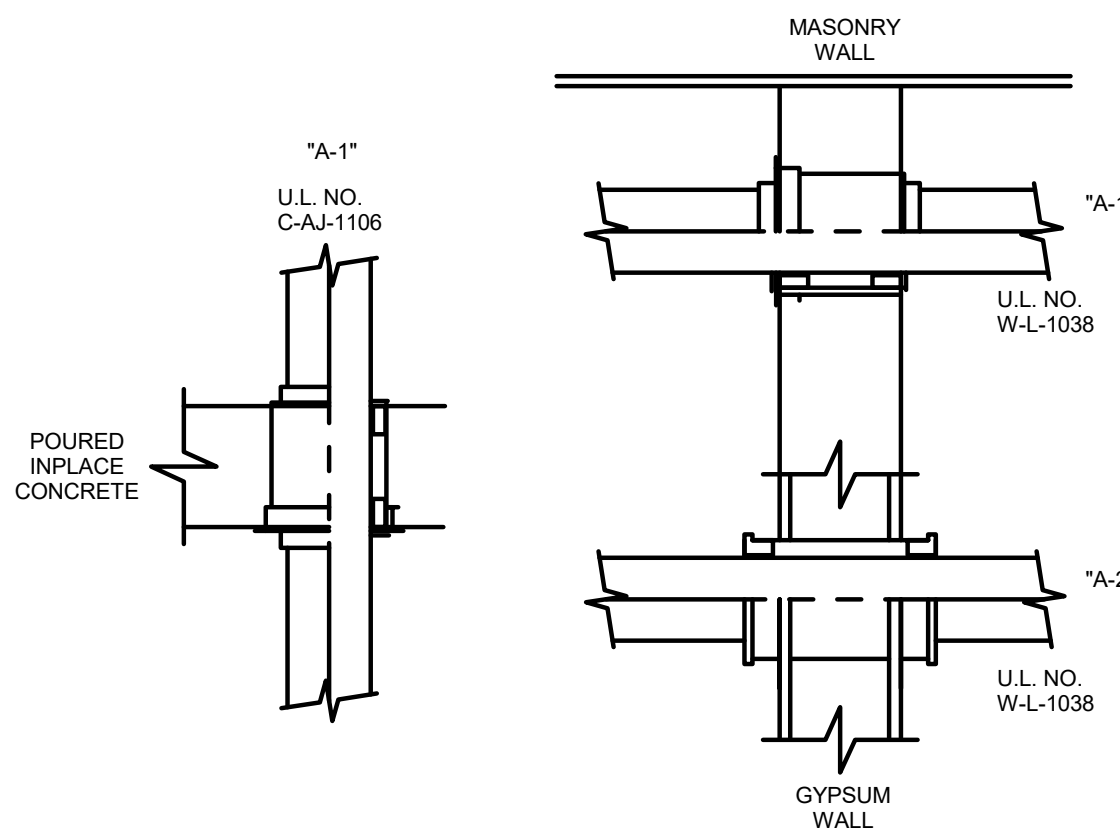
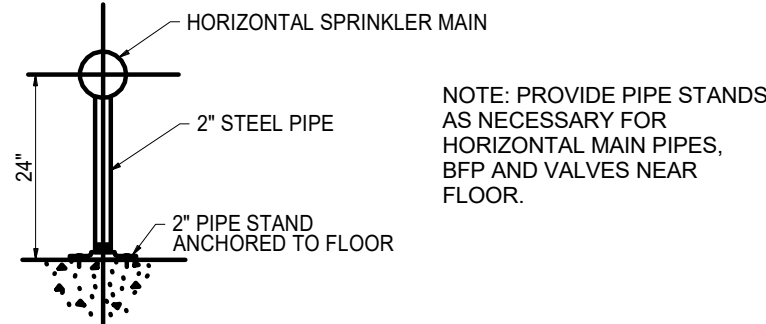
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FIRE PROTECTION NOTES

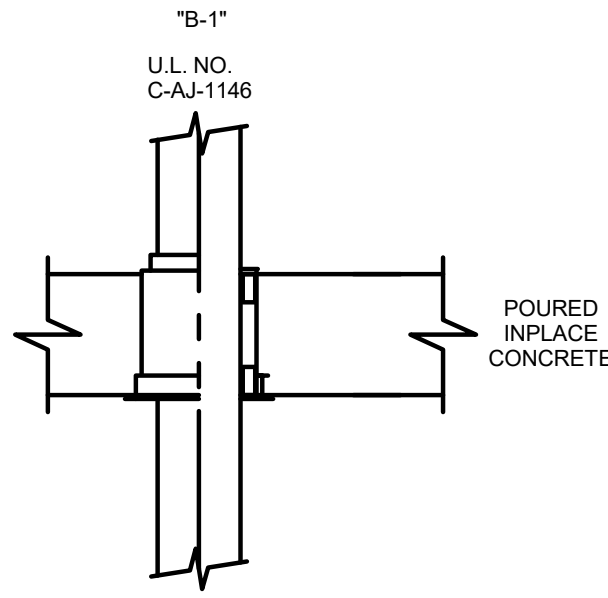
1. THE SPRINKLER SYSTEM SHALL BE PROVIDED IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA-13, 2000 INTERNATIONAL BUILDING CODE. ALL ELECTRICAL AND MECHANICAL EQUIPMENT ROOMS SHALL BE SPRINKLED AS ORDINARY HAZARD GROUP 2 (0.2 GPM/SQ. FT.). REFER TO FP-110 FOR ADDITIONAL COVERAGE REQUIREMENTS. PROVIDE DRY PENDENT SPRINKLERS IN WALK-IN COOLER AND FREEZER WITH MINIMUM CASING LENGTH AND SEALANT AS REQUIRED BY MANUFACTURER AND CODE. ALL SPRINKLERS SHALL BE QUICK RESPONSE TYPE UNLESS REQUIRED OTHERWISE BY CODE.
2. PIPING SIZED BY HYDRAULIC CALCULATION METHOD IN ACCORDANCE WITH THE CURRENT EDITION OF NFPA 13.
3. ALL FIRE PROTECTION WORK SHALL MEET ALL OF THE REQUIREMENTS OF NFPA AND LOCAL AND STATE AUTHORITIES HAVING JURISDICTION. ALL MATERIALS, METHODS, AND DESIGN SHALL BE PER CURRENT EDITION OF NFPA 13. FLUSH AND TEST SYSTEM IN ACCORDANCE WITH NFPA 13, 24 AND LOCAL CODES.
4. THE CONTRACTOR SHALL SUBMIT A SET OF INSTALLATION "SHOP" DRAWINGS, HYDRAULIC CALCULATIONS AND MATERIAL DATA FOR THE ENGINEER'S REVIEW PRIOR TO CONSTRUCTION. ALL WORK TO BE COORDINATED WITH OTHER TRADES.
5. SPRINKLER SYSTEMS SHALL BE INSTALLED BY PERSONNEL WHO HAVE ENGINEERING FACILITIES AND EXPERIENCE IN SUCH WORK AND WHO ARE REGULARLY EMPLOYED TO DO SUCH WORK.
6. SPRINKLERS SHALL BE AS REQUIRED BY NFPA 13. WHERE EXCESSIVE TEMPERATURES ARE ANTICIPATED, HIGH TEMPERATURE HEADS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 13. THE CONTRACTOR SHALL INDICATE SPRINKLER TEMPERATURE RATING, ORIFICE SIZE AND TYPE ON FINAL DRAWINGS. SPRINKLERS IN FINISHED AREAS TO BE CONCEALED TYPE. SPRINKLER AND ESCUTCHEON TO BE CHROME PLATED IN UNFINISHED AREAS.
7. COORDINATE EXACT LOCATION OF SPRINKLERS, PIPING AND EQUIPMENT WITH CEILING, ELECTRICAL, MECHANICAL AND STRUCTURAL COMPONENTS OF BUILDING. MAKE MODIFICATIONS WITHOUT ADDITIONAL COST TO THE OWNER.
8. ALL MATERIAL SHALL BE UL LISTED.
9. REFER TO THE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL FIRE WALLS WHICH FIRE PROTECTION PIPING PENETRATES. FIRE PROTECTION PIPING SHALL BE FIRE SAFED IN AN APPROVED MANNER WHEN PENETRATING WALLS AND FLOORS. PROVIDE SLEEVES OR OTHER APPROVED MEANS AND SEAL OPENINGS IN WALLS, FLOORS, AND PARTITIONS IN SUCH A MANNER AS TO MAINTAIN THE SMOKE AND FIRE RATING OF THAT WALL, FLOOR OR CEILING.
10. SPACING OF SPRINKLERS: THE SPACING AND SIZES OF PIPES SHALL CONFORM TO THE REQUIREMENTS OF NFPA 13. SPRINKLERS SHALL BE WITHIN 6" OF CENTER OF TILE. PROVIDE SWING JOINT IF REQUIRED TO ACCOMPLISH THIS. SPRINKLERS SHALL BE AT LEAST 6" FROM ANY CEILING FIXTURE. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF SPRINKLERS AND PIPING WITH THE LIGHTING AND AIR DISTRIBUTION DRAWINGS. COORDINATE WITH ANY LIGHTING FIXTURES THAT MAY EXTEND BELOW THE CEILING TO AVOID OBSTRUCTION AS DEFINED BY NFPA 13.
11. PIPING: SPRINKLER PIPING SHALL BE SCHEDULE 40 BLACK STEEL PIPE AND FITTINGS CONFORMING TO ASTM A-53. MINIMUM SIZE IS ONE INCH.
12. PIPE SUPPORTS, HANGERS, CLAMPS, RODS AND OTHER ACCESSORIES: SHALL BE OF AN APPROVED TYPE AND IN SUFFICIENT NUMBER TO PROPERLY SUPPORT ALL PIPING FURNISHED AND INSTALLED. PIPING SHALL BE SUPPORTED BY ROUND WROUGHT U-TYPE APPROVED ADJUSTABLE HANGERS. PROVIDE ALL HANGERS, U-TYPE TRAPEZE HANGERS AS REQUIRED TO COMPLY WITH NFPA 13. IF BAR JOIST CONSTRUCTION IS USED, HANG TO TOP CORD OF BAR JOIST ONLY. PROVIDE ANY ADDITIONAL DRAINS REQUIRED TO COMPLY WITH NFPA 13 AND LOCAL CODES WITHOUT ADDITIONAL COST TO OWNER. HANGERS HAVE NOT BEEN SHOWN FOR CLARITY.
13. ALL WORK TO BE TESTED AT 200 PSI FOR 2 HOURS. TEST TO BE WITNESSED BY CITY OF HARRISONVILLE FIRE DEPARTMENT. CALL THE FIRE DEPARTMENT 24 HOURS IN ADVANCE TO SCHEDULE THE SPRINKLER HYDROSTATIC AND ACCEPTANCE TEST. ALL TEST TO BE PER NFPA. FIRE DEPARTMENT PHONE NUMBER IS (816) 380-8952.
14. SPRINKLER PIPING TO BE RUN CONCEALED ABOVE THE FINISHED CEILING.
15. CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND COORDINATING THE LOCATION OF ALL INSPECTOR'S TEST VALVES. THERE SHOULD BE AT LEAST ONE INSPECTOR'S TEST CONNECTION FOR EACH ZONE AND THE PREACTION SYSTEM. DISCHARGE TEST CONNECTION TO OUTSIDE, JANITOR'S SINK OR OTHER ADEQUATE DRAIN. PROVIDE AND INSTALL ACCESS PANELS AS REQUIRED.
16. ALL UNDERGROUND WORK SHALL BE PERFORMED IN ACCORDANCE WITH NFPA-24 REQUIREMENTS BY A STATE LICENSED CONTRACTOR. UNDERGROUND PIPE TO BE PVC DR-14 WITH MECHANICAL JOINT FITTINGS, RESTRAINED PER NFPA REQUIREMENTS. CONTRACTOR IS RESPONSIBLE TO LEAVE TO NATURAL STATE ALL AREAS AFFECTED BY EXCAVATION AND INSTALLATION OF NEW FIRE MAIN.
17. ALL TRAPPED SECTIONS OF WATER TO BE PROVIDED WITH AUXILIARY DRAINS, AS REQUIRED BY NFPA-13. DRAINS TO BE 1" GLOBE VALVE WITH NIPPLE TO ABOVE CEILING SPACE. OVER 50 GAL. PIPE TO AN APPROVED LOCATION. INSTALL SIGNS AS REQUIRED. PROVIDED CAPS AT THE END OF EACH MAIN FOR FLUSHING PURPOSES.
18. TAMPER SWITCHES AND FLOW SWITCHES SHALL BE CONNECTED FOR SUPERVISION AND ALARM TO THE FIRE ALARM PANEL. PROVIDE NECESSARY ELECTRICAL WIRING. CONNECTIONS FROM SWITCHES TO FIRE ALARM PANEL THOROUGHLY REVIEW FINAL LOCATION, TYPE, MOUNTING HEIGHT AND CONTROL OF ALL DEVICES PRIOR TO ROUGH-IN.
19. PROVIDE THE FOLLOWING SYSTEM DATA: PROVIDE COPY TO OWNER'S REP.
 - A. HAZARD CLASSIFICATION AREA OF APPLICATION - SQ. FT.
 - B. HYDRAULIC DESIGN DENSITY HOSE ALLOWANCES - GPM
 - C. HYDRAULIC DESIGN GPM/SQ. FT.
 - D. TOTAL SYSTEMS REQUIREMENTS - GPM AT PSI
 - E. HYDRAULIC DESIGN SQ. FT. HD
 - F. WATER SUPPLY STATIC PRESSURE - PSI
20. PROVIDE TEST DATA AFTER SYSTEM INSTALLATION.
21. THE FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR COMMUNICATIONS WITH THE PROPERTY OWNER'S PERSONNEL TO REVIEW CONTRACT DOCUMENTS PRIOR TO INSTALLATION. COORDINATE ALL FIRE PROTECTION WORK WITH ELECTRICAL, PLUMBING AND HVAC WORK SO AS NOT TO CONFLICT IN LOCATION OR PERFORMANCE OF OTHER SYSTEMS.
22. THE CONTRACTOR SHALL KEEP A MASTER SET OF BLUE LINE PRINTS THAT ARE TO BE MARKED UP TO REFLECT "AS BUILT" CONDITIONS ON A DAILY BASIS. THESE "AS BUILT" MARK UPS MAY BE REVIEWED BY THE ARCHITECT, ENGINEER, OR OWNER'S REPRESENTATIVE. AT THEIR REQUEST AND WITHOUT PRIOR NOTIFICATION, THESE "AS BUILT" DRAWINGS WILL BE TURNED OVER TO THE OWNER AT THE CONCLUSION OF THE PROJECT.
23. THE CONTRACTOR SHALL INCLUDE ALL NECESSARY FEES AND CHARGES IN HIS BID.
24. PROVIDE SPARE SPRINKLER FOR EACH SPRINKLER TYPE USED IN BUILDING (QUANTITY BY NFPA 13), A SPRINKLER WRENCH AND A SPRINKLER CABINET. THE CABINET SHALL BE MOUNTED ON THE WALL ADJACENT TO THE RISER.
25. FIRE ALARM PANEL FOR REMOTE MONITORING, ALARM, RESET, ETC. WILL BE LOCATED AS INDICATED. REFER TO FIRE ALARM ELECTRICAL DRAWINGS.
26. PROVIDE ELECTRONIC DISC FILE FOR ID OF EVERY ITEM IN THE FIRE PROTECTION SYSTEMS INCLUDING FIRE ALARM SYSTEM.
27. VALVE TYPES FOR BRANCH LINES SHALL BE SUPERVISED BALL VALVES, AND FOR THE MAINS (LARGER LINES) USE SUPERVISED OS&Y.
28. CONTRACTOR SHALL OBTAIN A CURRENT 2 HYDRANT WATER FLOW TEST OR WATER MODEL DATED WITHIN (12) MONTHS FROM TIME OF SHOP DRAWING SUBMITTAL. ALL HYDRAULIC CALCULATIONS SHALL BE BASED ON THIS FLOW TEST.
29. CALCULATIONS SHOULD MAINTAIN A MINIMUM 10% SPRINKLER SYSTEM SAFETY FACTOR.
30. SYSTEM SHALL BE INSTALLED WITH LIGHT HAZARD CLASSIFICATION UNLESS OTHERWISE REQUIRED BY THE AHJ, NFPA, AND IBC REQUIREMENTS. SEE ARCHITECTURAL LIFE SAFETY DRAWINGS AND DETAILS FOR FURTHER BUILDING CLASSIFICATION INFORMATION.
31. PER FIRE CHIEF XXXX XXXXXX, STANDPIPES ARE NOT REQUIRED FOR THIS BUILDING.
32. FIRE PROTECTION CONTRACTION SHALL FULLY PARTICIPATE IN THE BUILDING SYSTEMS COORDINATION PROCESS. THIS INCLUDES MEETING WITH THE MECHANICAL, ELECTRICAL AND PLUMBING CONTRACTORS TO DISCUSS PIPE ROUTING, EQUIPMENT LOCATIONS AND POTENTIAL AREAS OF CONFLICT. COORDINATION DRAWINGS MUST BE SUBMITTED SHOWING FIRE SPRINKLER PIPING AND SPRINKLERS FULLY COORDINATED WITH ALL OTHER TRADES. CONFLICTS THAT ARISE IN THE FIELD DURING INSTALLATION WILL BE CORRECTED AT NO ADDITIONAL COST TO THE OWNER.
33. FIRE PROTECTION CONTRACTOR SHALL BE AWARE THAT DUCTWORK AND HYDRONIC PIPING TAKES PRECEDENCE OVER SPRINKLER PIPING WITH REGARD TO ABOVE CEILING SPACE. IT IS ASSUMED THAT FOR COORDINATION PURPOSES THE BRANCH SPRINKLER PIPING CAN RUN ABOVE THE BOTTOM OF BEAMS/JOISTS AS REQUIRED. THE CONTRACTOR SHALL BECOME FAMILIAR WITH CEILING HEIGHTS, BEAM DEPTHS, AND DUCTWORK/PIPING LAYOUT PRIOR TO DRAWING FIRE SPRINKLER SHOP DRAWINGS. CEILING SPACE WITH ROOFS ABOVE ARE ESPECIALLY COMPACT AND CAREFUL ATTENTION SHOULD BE PAID TO PIPE SLOPES AND ROUTING.
34. THE CITY OF LEE'S SUMMIT FIRE DEPARTMENT SHALL WITNESS THE FULL FLOW FLUSH TEST PRIOR TO CONNECTION TO THE FIRE SPRINKLER SYSTEM. FIRE DEPARTMENT PHONE NUMBER IS (816)XXX-XXXX.
35. THE CITY OF LEE'S SUMMIT FIRE DEPARTMENT SHALL WITNESS THE FULL FLOW FLUSH TEST PRIOR TO CONNECTION TO THE FIRE SPRINKLER SYSTEM. FIRE DEPARTMENT PHONE NUMBER IS (816)XXX-XXXX.



SLEEVES AND FIRESTOPPING:
USE PROSET "FIRESTOP PENETRATORS" OR APPROVED EQUIVALENT. U.L. CLASSIFIED IN THE BUILDING MATERIALS DIRECTORY. TESTED BY ASTM E-814. USE FOR ALL APPLICABLE PIPE PENETRATIONS THRU FIRE RATED FLOORS, WALLS OR FLOOR/CEILING ASSEMBLIES IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

A. SYTEM "A": PENETRATIONS FOR WATER LINES, HEATING AND COOLING LINES, FIRE STANDPIPE AND SPRINKLER LINES, TEMPERATURE CONTROL, ACID WASTE GLASS PIPE AND ELECTRIC AND COMMUNICATION CONDUIT PENETRATING FLOORS AND WALLS.

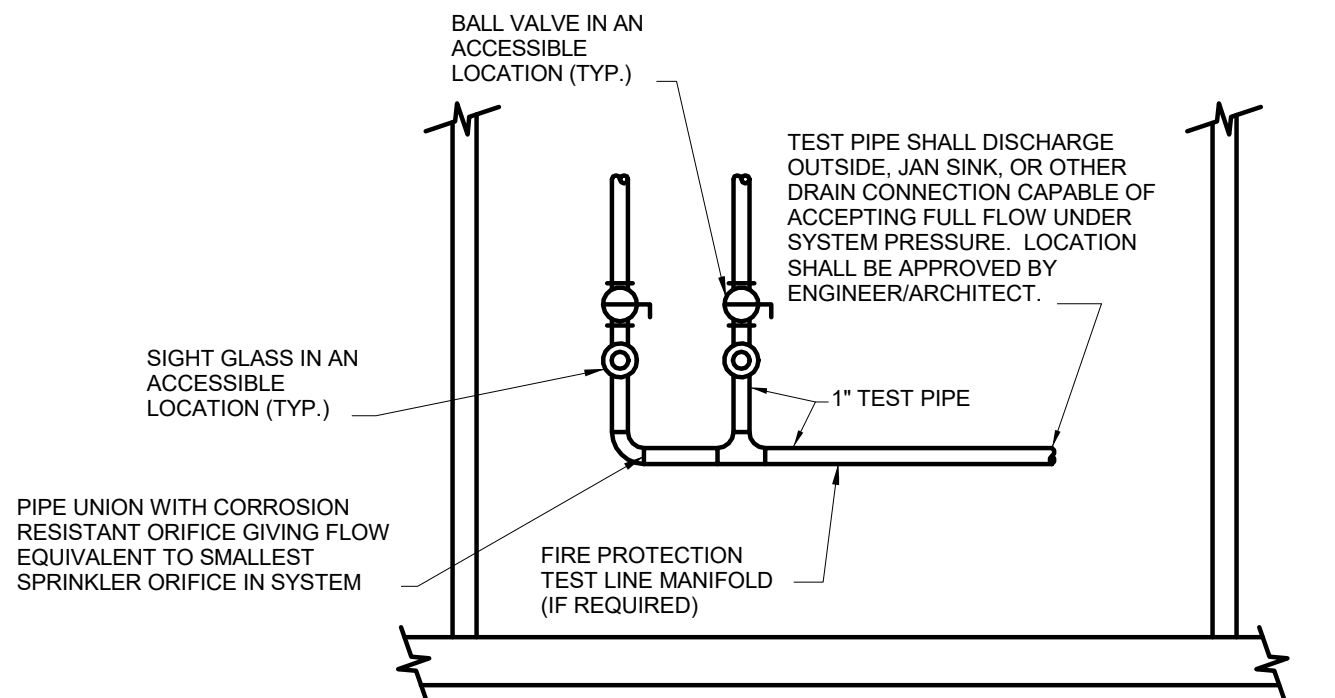
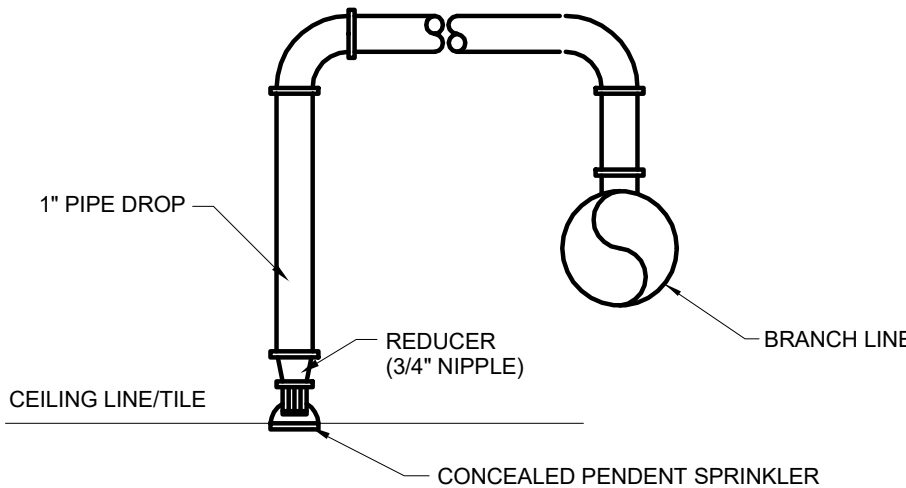
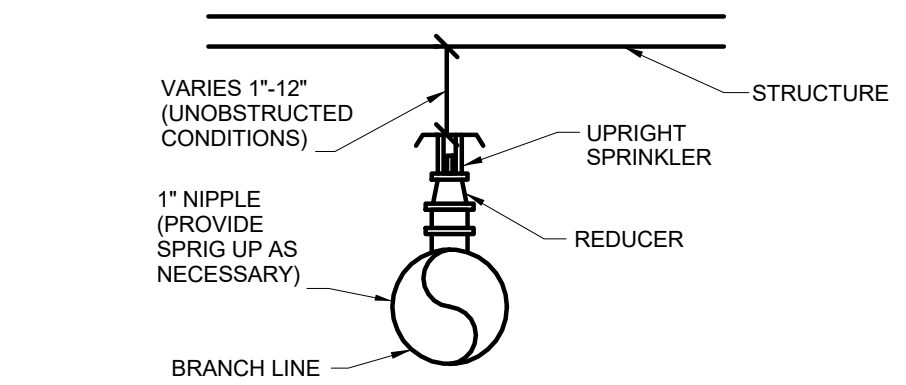
1. CAST-IN-PLACE PENETRATIONS FOR POURED-IN-PLACE CONCRETE ON STEEL OR WOOD FORMS IN FLOORS AND WALLS.
2. SPLIT WALL SLEEVE PENETRATORS FOR PIPES PASSING THROUGH GYPSUM WALLS OR FLOOR/CEILING ASSEMBLIES.



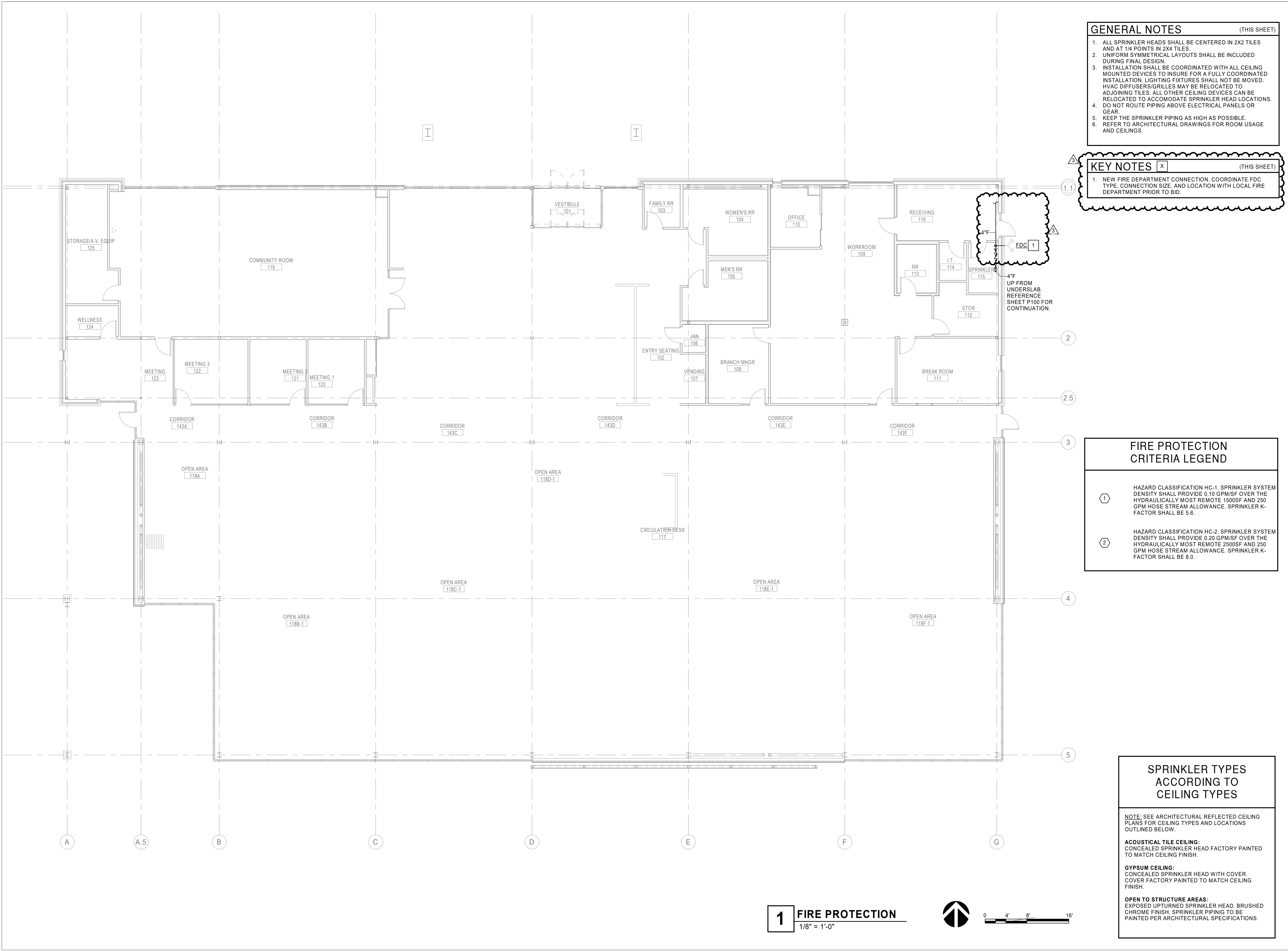
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B. SYSTEM "B": PENETRATORS FOR CAST IRON DWV PIPES FOR STACKS AND DRAINS PENETRATING FLOORS AND WALLS.

1. CAST-IN-PLACE PENETRATIONS FOR POURED-IN-PLACE CONCRETE ON STEEL OR WOOD FORMS IN FLOORS AND WALLS.



NOTE: THE FIRE PROTECTION MANIFOLD COLLECTS THE TEST LINES FOR EACH FLOOR. CONTRACTOR IS RESPONSIBLE FOR PROPOSING LOCATIONS FOR ALL TEST CONNECTIONS BASED ON SYSTEM LAYOUT AND PIPING CONFIGURATION.



GENERAL NOTES (THIS SHEET)

1. ALL SPRINKLER HEADS SHALL BE CENTERED IN 2X2 TILES AND AT 1/4 POINTS IN 2X4 TILES.
2. UNIFORM SYMMETRICAL LAYOUTS SHALL BE INCLUDED DURING FINAL DESIGN.
3. INSTALLATION SHALL BE COORDINATED WITH ALL CEILING MOUNTED DEVICES TO INSURE FOR A FULLY COORDINATED INSTALLATION. LIGHTING FIXTURES SHALL NOT BE MOVED. HVAC DIFFUSERS/GRILLES MAY BE RELOCATED TO ADJOINING TILES. ALL OTHER CEILING DEVICES CAN BE RELOCATED TO ACCOMODATE SPRINKLER HEAD LOCATIONS.
4. DO NOT ROUTE PIPING ABOVE ELECTRICAL PANELS OR GEAR.
5. KEEP THE SPRINKLER PIPING AS HIGH AS POSSIBLE.
6. REFER TO ARCHITECTURAL DRAWINGS FOR ROOM USAGE AND CEILINGS.

KEY NOTES (THIS SHEET)

1. NEW FIRE DEPARTMENT CONNECTION, COORDINATE FDC TYPE, CONNECTION SIZE, AND LOCATION WITH LOCAL FIRE DEPARTMENT PRIOR TO BID.

FIRE PROTECTION CRITERIA LEGEND

1. HAZARD CLASSIFICATION HC-1. SPRINKLER SYSTEM DENSITY SHALL PROVIDE 0.10 GPM/SF OVER THE HYDRAULICALLY MOST REMOTE 1500SF AND 250 GPM HOSE STREAM ALLOWANCE. SPRINKLER K-FACTOR SHALL BE 5.6.
2. HAZARD CLASSIFICATION HC-2. SPRINKLER SYSTEM DENSITY SHALL PROVIDE 0.20 GPM/SF OVER THE HYDRAULICALLY MOST REMOTE 2500SF AND 250 GPM HOSE STREAM ALLOWANCE. SPRINKLER K-FACTOR SHALL BE 8.0.

SPRINKLER TYPES ACCORDING TO CEILING TYPES

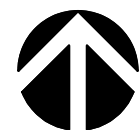
NOTE: SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING TYPES AND LOCATIONS OUTLINED BELOW.

ACOUSTICAL TILE CEILING:
CONCEALED SPRINKLER HEAD FACTORY PAINTED TO MATCH CEILING FINISH.

GYPSPUM CEILING:
CONCEALED SPRINKLER HEAD WITH COVER. COVER FACTORY PAINTED TO MATCH CEILING FINISH.

OPEN TO STRUCTURE AREAS:
EXPOSED UPTURNED SPRINKLER HEAD. BRUSHED CHROME FINISH. SPRINKLER PIPING TO BE PAINTED PER ARCHITECTURAL SPECIFICATIONS.

1 FIRE PROTECTION
1/8" = 1'-0"



0 4' 8' 16'

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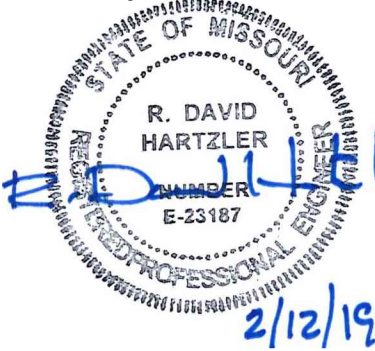
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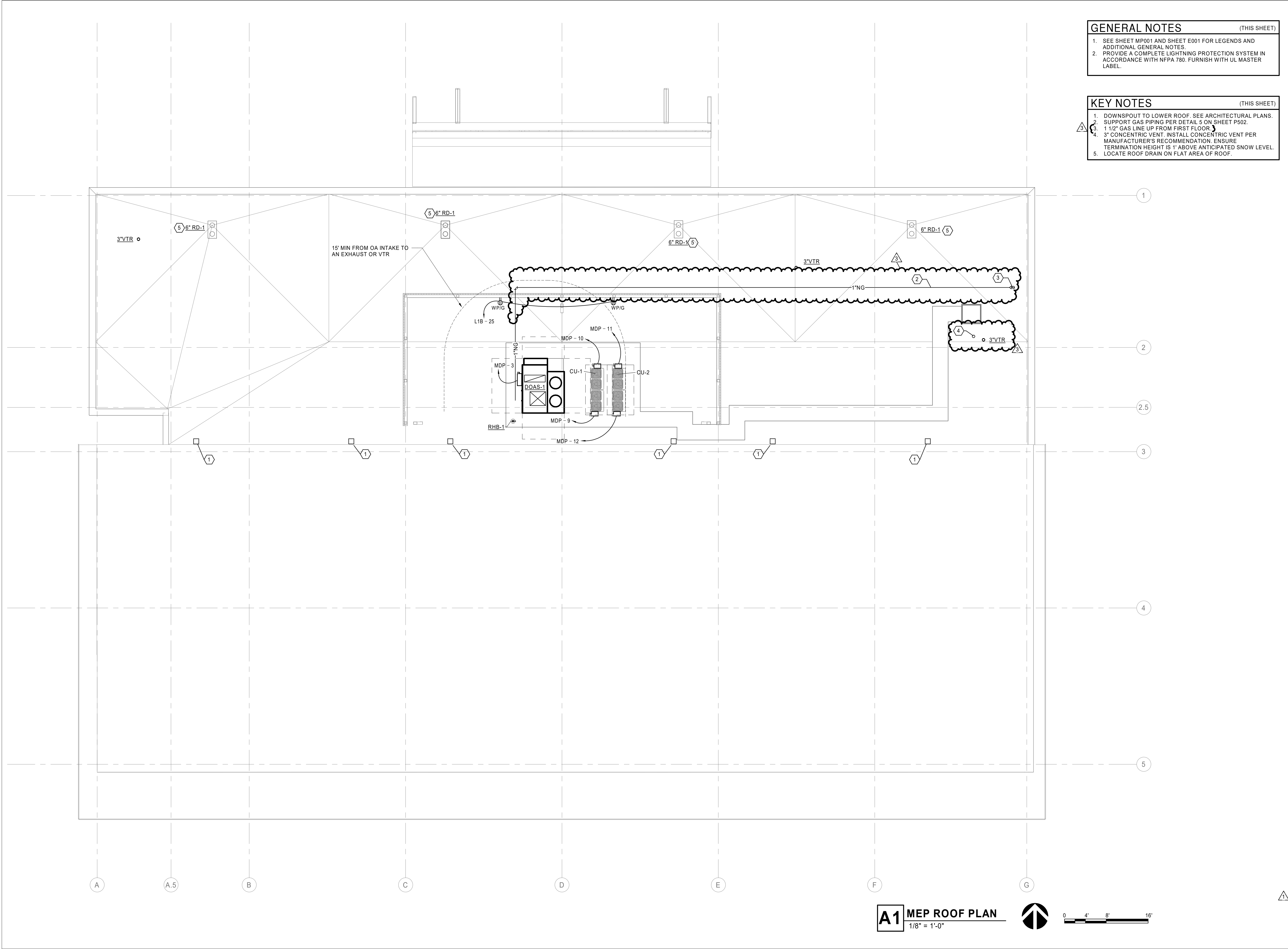
Revision No.	Description	Date
3	ASI 03	2019-02-12

Project No.	Date	Drawn
1013-004	01-14-2019	AB

Drawing No

FP101
FIRE PROTECTION

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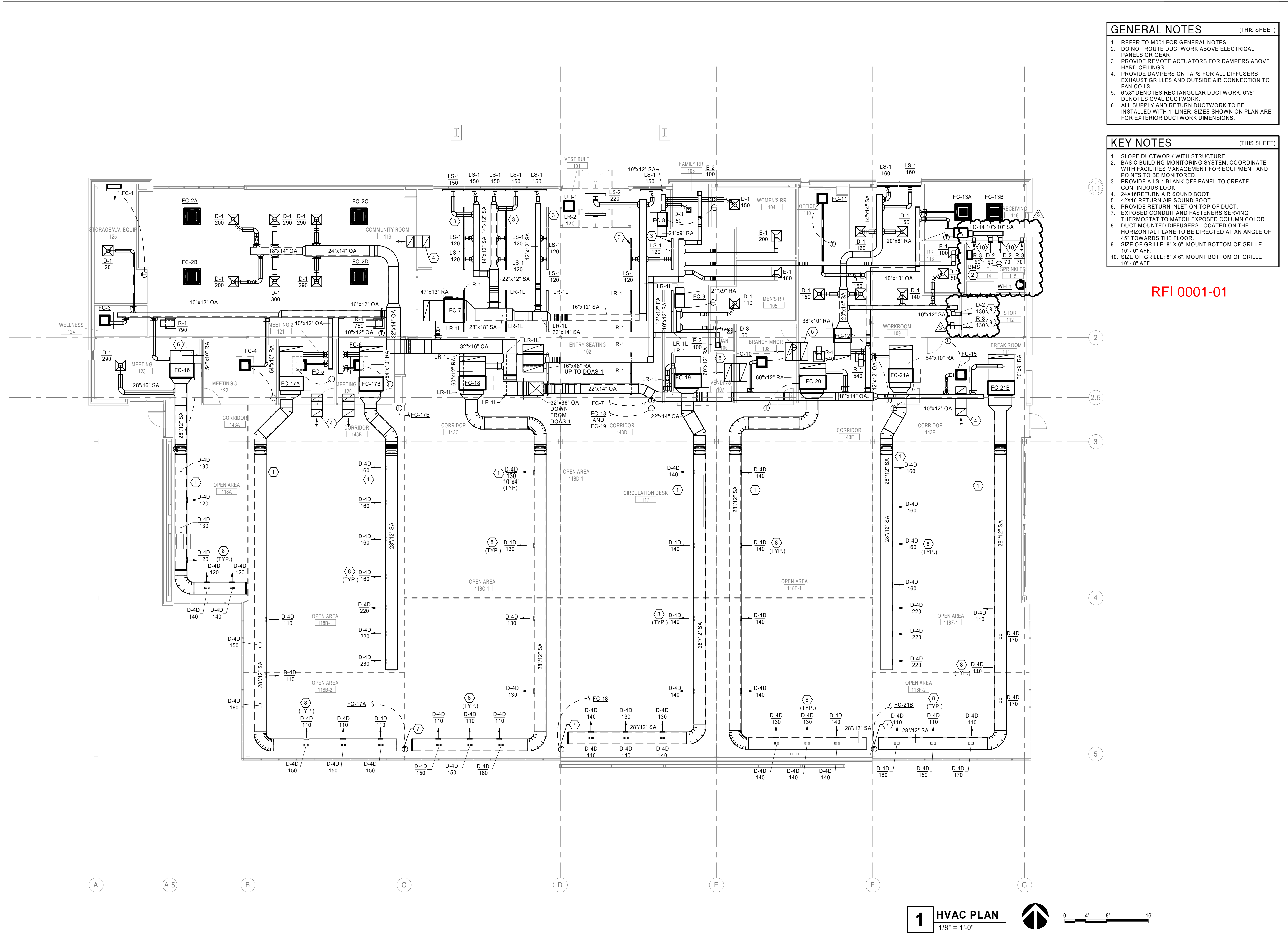
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Revision No.	Description	Date
1	ASI 01	2019-01-14
3	ASI 03	2019-02-12

Project No.	Date	Drawn
1013-004	01-14-2019	MEG

Drawn No
MEP101
MEP ROOF PLAN



GENERAL NOTES (THIS SHEET)

1. REFER TO M001 FOR GENERAL NOTES.
2. DO NOT ROUTE DUCTWORK ABOVE ELECTRICAL PANELS OR GEAR.
3. PROVIDE REMOTE ACTUATORS FOR DAMPERS ABOVE HARD CEILINGS.
4. PROVIDE DAMPERS ON TAPS FOR ALL DIFFUSERS EXHAUST GRILLES AND OUTSIDE AIR CONNECTION TO FAN COILS.
5. 6"x8" DENOTES RECTANGULAR DUCTWORK. 6"x8" DENOTES OVAL DUCTWORK.
6. ALL SUPPLY AND RETURN DUCTWORK TO BE INSTALLED WITH 1" LINER. SIZES SHOWN ON PLAN ARE FOR EXTERIOR DUCTWORK DIMENSIONS.

KEY NOTES (THIS SHEET)

1. SLOPE DUCTWORK WITH STRUCTURE.
2. BASIC BUILDING MONITORING SYSTEM. COORDINATE WITH FACILITIES MANAGEMENT FOR EQUIPMENT AND POINTS TO BE MONITORED.
3. PROVIDE A LS-1 BLANK OFF PANEL TO CREATE CONTINUOUS LOOK.
4. 24"x16" RETURN AIR SOUND BOOT.
5. 42"x16" RETURN AIR SOUND BOOT.
6. EXPOSED CONDUIT AND FASTENERS SERVING THERMOSTAT TO MATCH EXPOSED COLUMN COLOR.
7. DUCT MOUNTED DIFFUSERS LOCATED ON THE HORIZONTAL PLANE TO BE DIRECTED AT AN ANGLE OF 45° TOWARDS THE FLOOR.
8. SIZE OF GRILLE: 8" X 6". MOUNT BOTTOM OF GRILLE 10" - 0" AFF.
9. SIZE OF GRILLE: 8" X 6". MOUNT BOTTOM OF GRILLE 10" - 8" AFF.

RFI 0001-01

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Revision No.	Description	Date
1	ASI 01	2019-01-14
3	ASI 03	2019-02-12

Project No. 1013-004 Date 01-14-2019 Drawn SE

Drawing No.

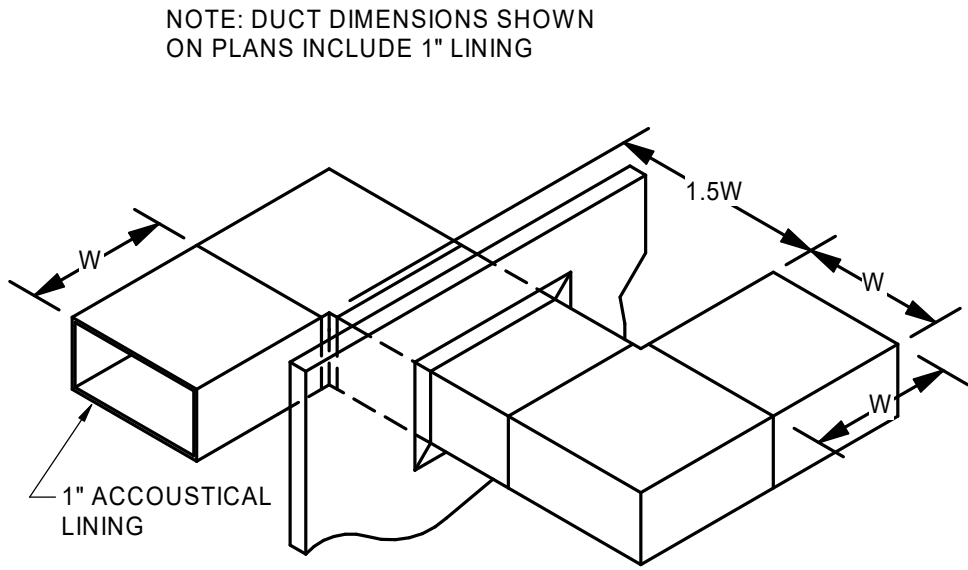
M101
HVAC PLAN

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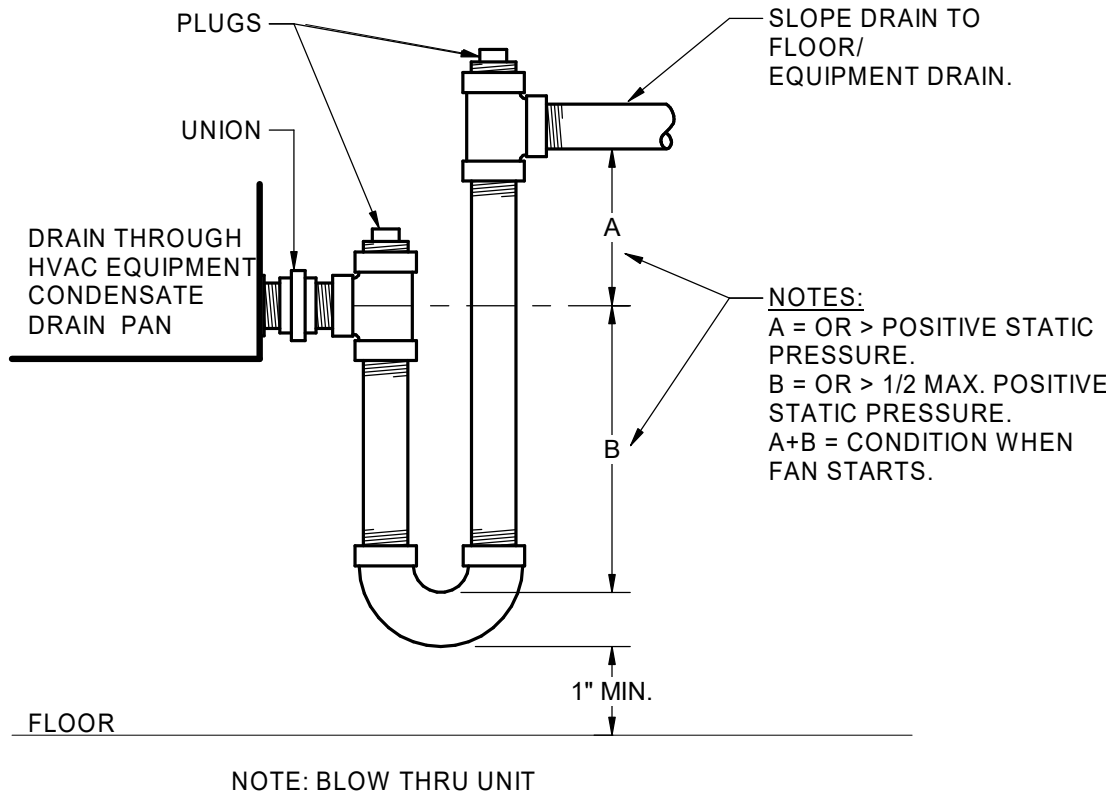
1 HVAC PLAN
1/8" = 1'-0"



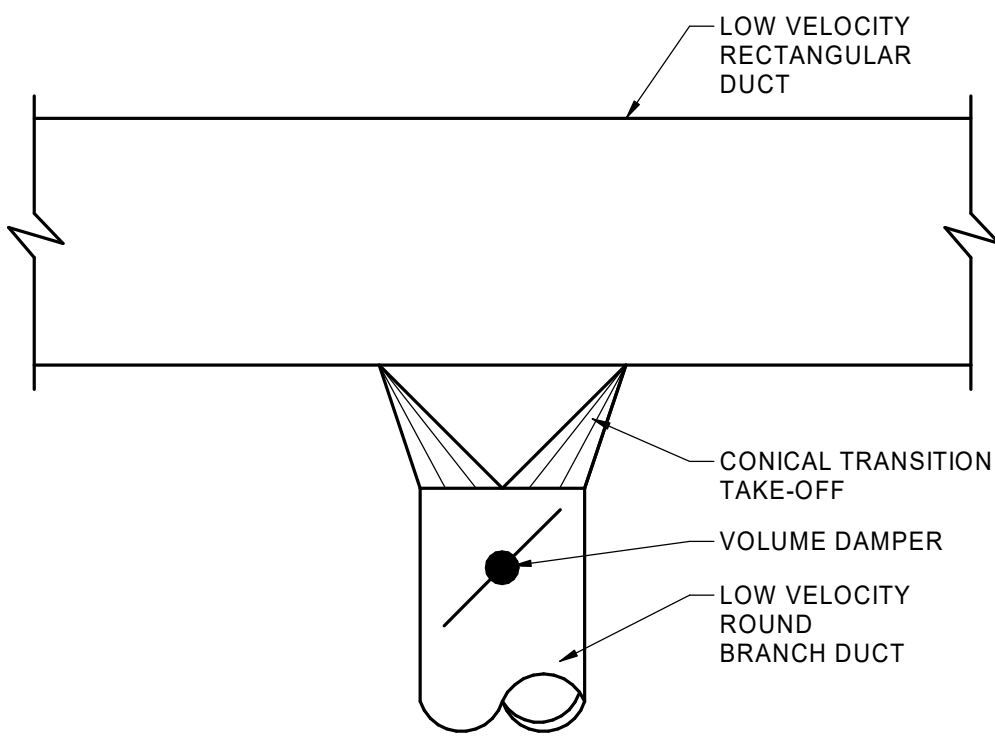
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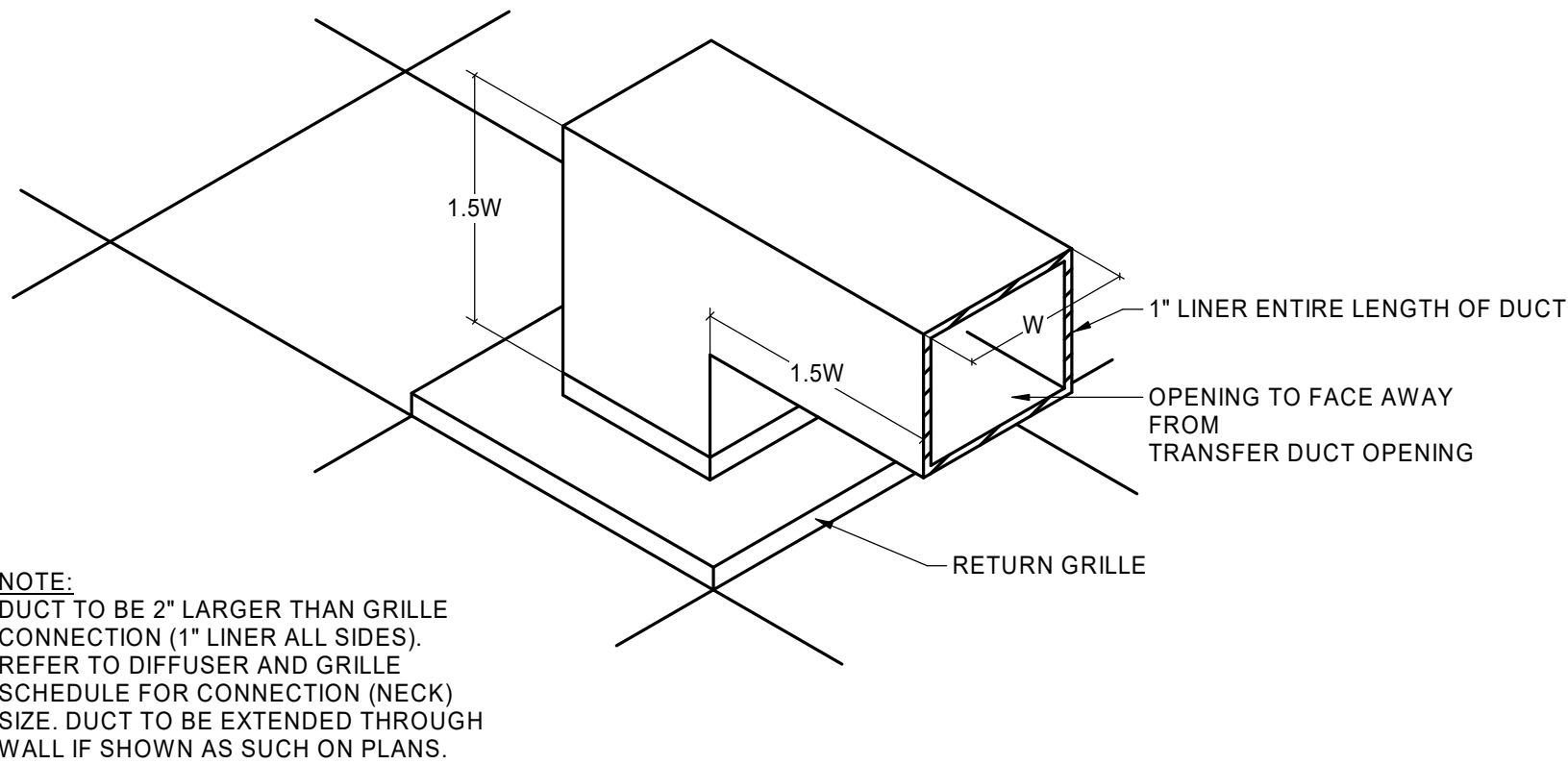
7 **TRANSFER AIR SOUND DUCT**
N.T.S.



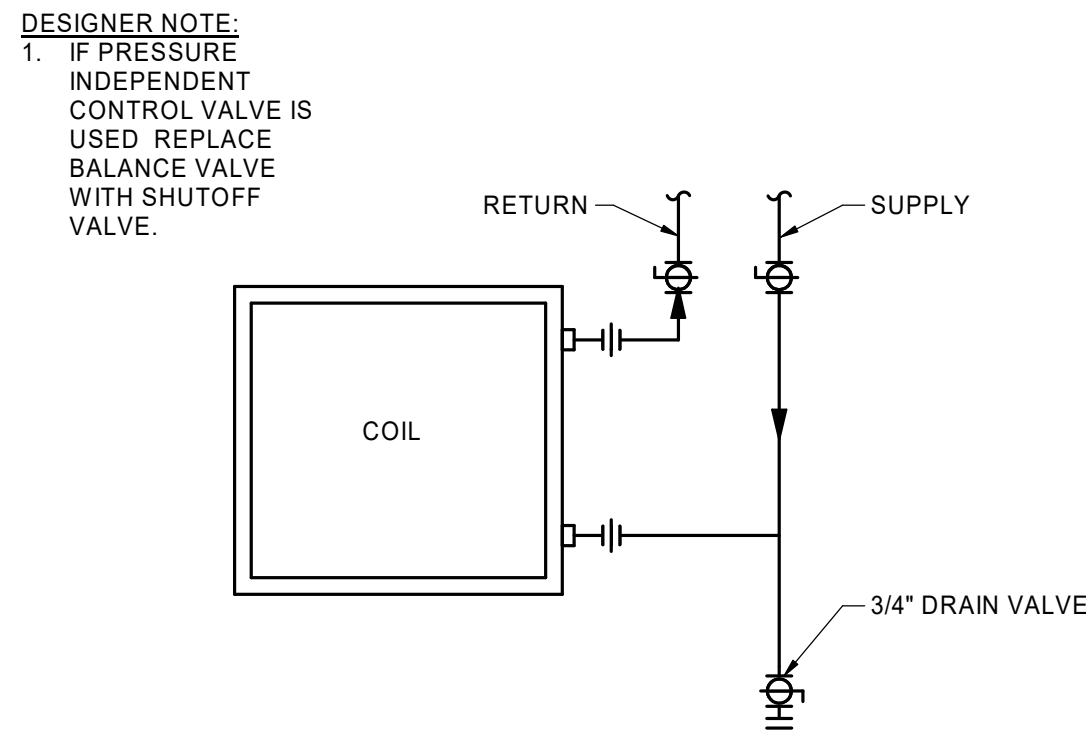
6 **RTU CONDENSATE TRAP**
N.T.S.



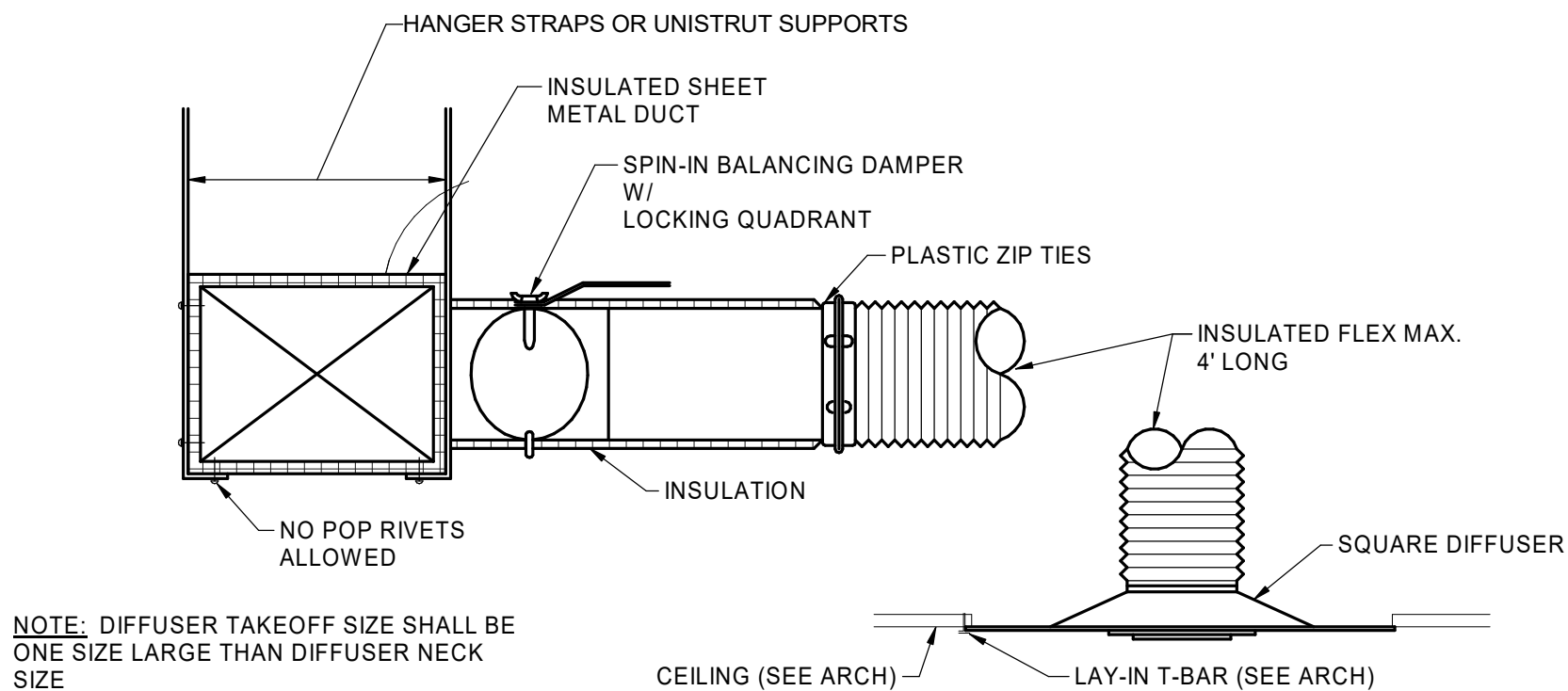
5 **ROUND FROM RECTANGULAR TAKE-OFF**
N.T.S.



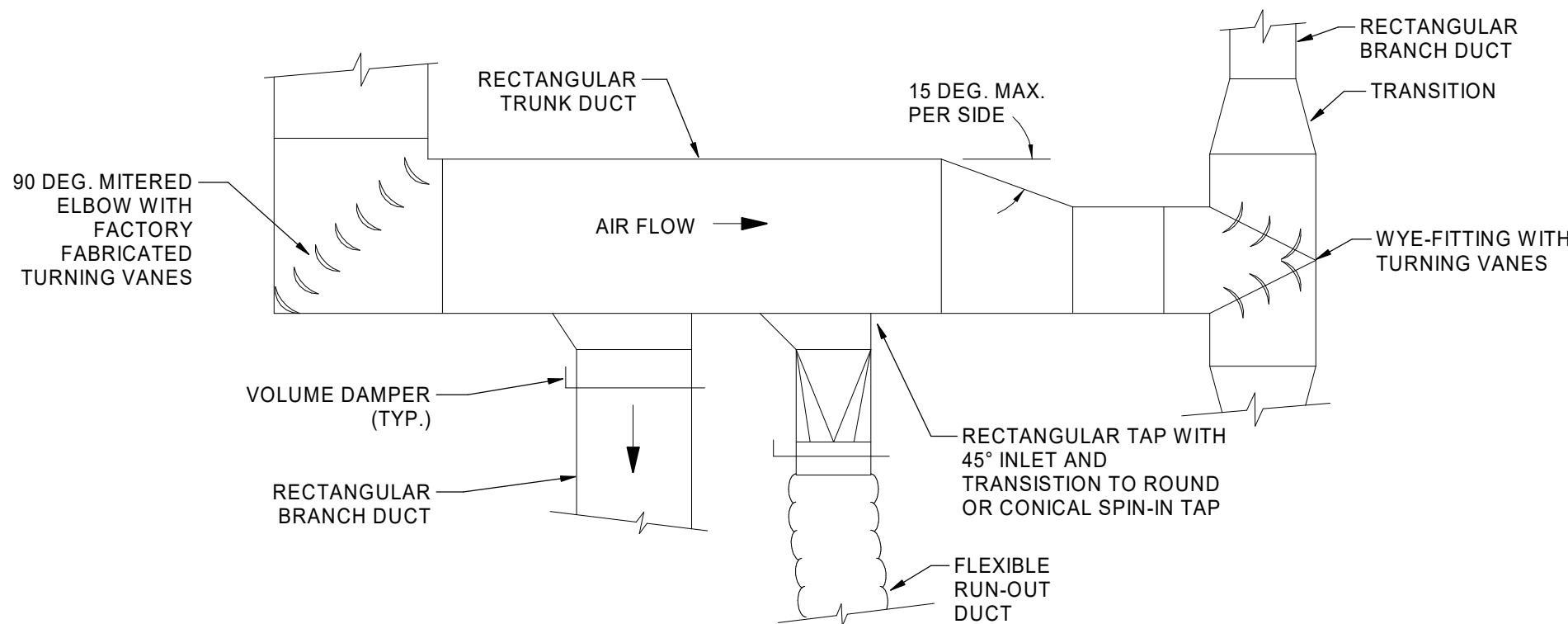
4 **TRANSFER AIR SOUND BOOT**
N.T.S.



3 **UNIT HEATER PIPING - HYDRONIC WATER**
1/8" = 1'-0"



2 **TYPICAL DIFFUSER/DUCT CONNECTION**
N.T.S.



1 **LOW PRESSURE DUCT CONNECTION**
N.T.S.

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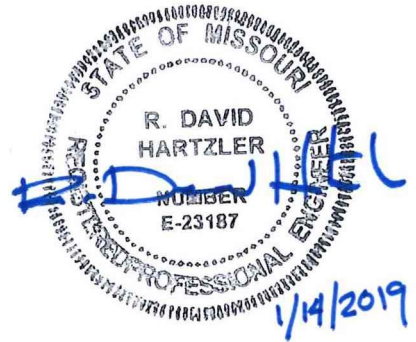
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Engineer of Record



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Revision No. Description Date

Project No. 1013-004 Date 08-16-2018 Drawn SE

Drawing No.
M501
MECHANICAL DETAILS

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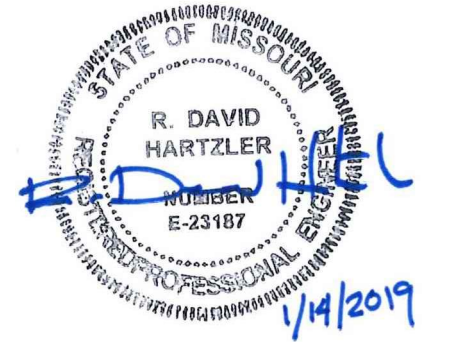
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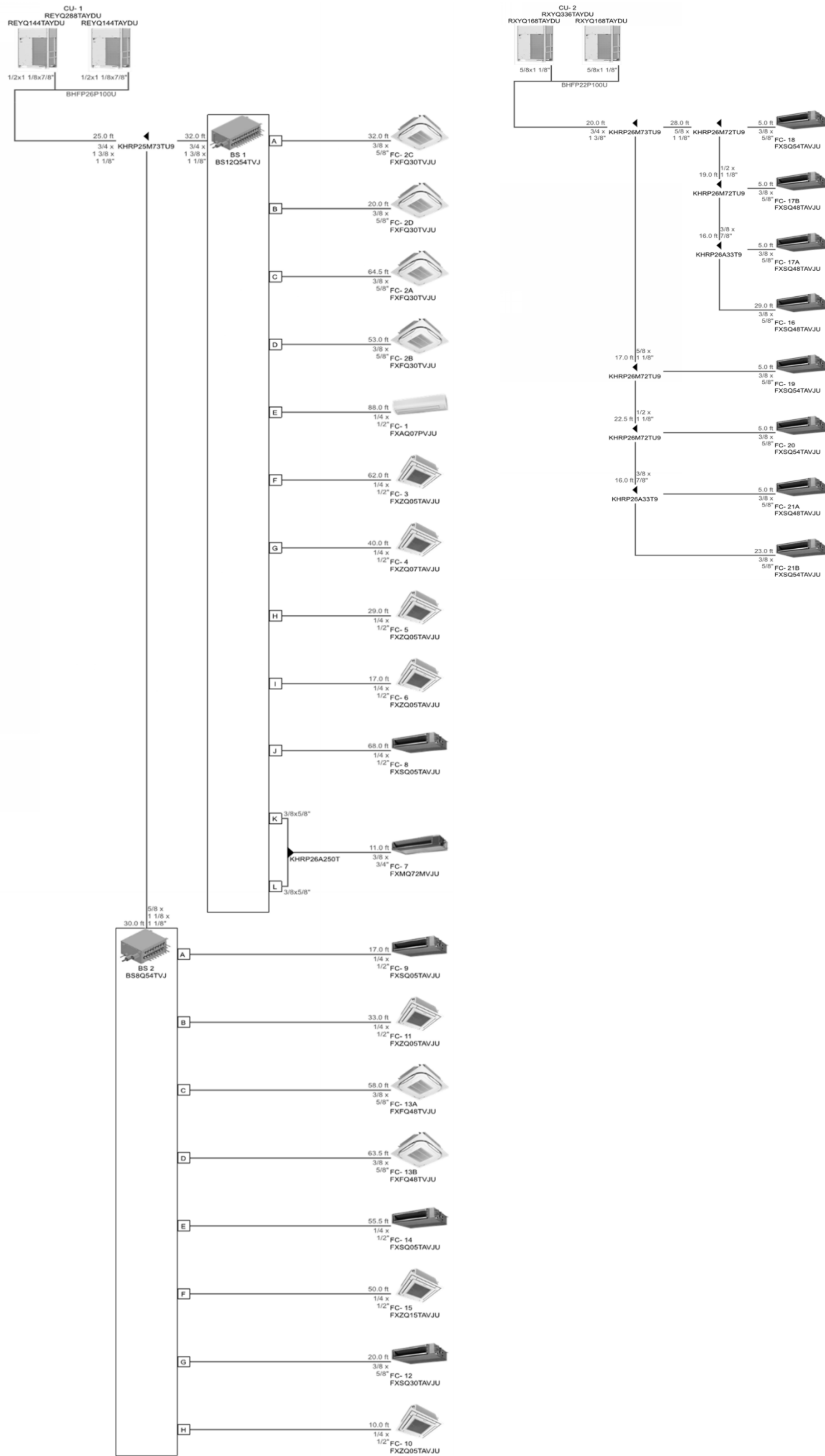
Revision No.	Description	Date
1	ASI 01	2019-01-14

Project No.	Date	Drawn
1013-004	08-16-2018	SE

Drawing No.

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AIR OUTLET AND INLET SCHEDULE

MARK	MANUFACTURER	MODEL	TYPE	MODULE SIZE	RUN-OUT DIA. (IN.)	NECK DIA. (IN.)	MAX. CFM	MATERIAL	BORDER	MAX. NC	MAX. TSP ("WC)	NOTES
D-1 D-1D	PRICE	ASPD	FULL FACE MODULE DIFFUSER DROPPED SQUARE PLAQUE	24"x24"	8	6	200	ALUMINUM	LAY-IN OR SURFACE (REF: RCP)	25	0.1	1,2,3,4,9
					10	8	320					
					12	10	400					
					14	12	475					
D-2 D-2D	PRICE	620	SIDEWALL SUPPLY GRILLE - 0° DEFLECTION	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	ALUMINUM	DUCT / SURFACE	25	0.1	1,3,4,9
D-3 D-3D	PRICE	ASCD	FULL FACE MODULE DIFFUSER SQUARE CONE	12"x12"	8	6	180	ALUMINUM	LAY-IN OR SURFACE (REF: RCP)	25	0.1	1,2,3,4,9
					10	8	260					
D-4	PRICE	SDG	SPIRAL DUCT SUPPLY GRILLE	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	ALUMINUM	SPIRAL DUCT	25	0.1"	3,4,8
E-1 E-1D	PRICE	APDDR	PERFORATED MODULE EXHAUST	24"x24"	8x8	8x8	200	ALUMINUM	LAY-IN OR SURFACE (REF: RCP)	25	0.1	1,3,4,9
					10x10	10x10	360					
					12x12	12x12	590					
					14x14	14x14	890					
					16x16	16x16	1270					
E-2 E-2D	PRICE	APDDR	PERFORATED MODULE EXHAUST	12"x12"	8x8	8x8	200	ALUMINUM	LAY-IN OR SURFACE (REF: RCP)	25	0.1	1,3,4,9
					8x8	8x8	200					
					8x8	8x8	200					
					8x8	8x8	200					
					8x8	8x8	200					
LR-1 LR-1D	PRICE	AS210	LINEAR SLOT RETURN WITH ENGINEERED PLENUM/ LOW-PROFILE PLENUM	48" 1-SLOT	8	6 [4x7]	160	ALUMINUM	LAY-IN OR SURFACE (REF: RCP)	25	0.3	1,3,4,5,6,8,9
					10	8 [4x10.125]	210					
LR-1L	PRICE	ASPI210	LINEAR SLOT RETURN WITH ENGINEERED PLENUM/ LOW-PROFILE PLENUM	48" 1-SLOT	8	8 [4x10.125]	210	ALUMINUM	LAY-IN OR SURFACE (REF: RCP)	25	0.3	1,3,4,5,6,8,9
					10	8 [4x10.125]	210					
LS-1	PRICE	AS210	LINEAR SLOT DIFFUSER	48" 1-SLOT	8	6 [4x7]	160	ALUMINUM	LAY-IN OR SURFACE (REF: RCP)	25	0.3	1,3,4,5,6,9
LS-1D	PRICE	ASPI210	LINEAR SLOT DIFFUSER	48" 1-SLOT	8	8 [4x10.125]	210					
LS-1L(D)	PRICE	ASPI210	LINEAR SLOT DIFFUSER	48" 1-SLOT	8	8 [4x10.125]	210	ALUMINUM	LAY-IN OR SURFACE (REF: RCP)	25	0.3	1,3,4,5,6,9
LS-1L(D)	PRICE	ASPI210	LINEAR SLOT DIFFUSER	48" 1-SLOT	8	8 [4x10.125]	210					
R-1 R-1D	PRICE	APDDR	PERFORATED MODULE RETURN	24"x24"	8x8	8x8	260	ALUMINUM	LAY-IN OR SURFACE (REF: RCP)	25	0.1	1,3,4,9
					10x10	10x10	470					
					12x12	12x12	760					
					14x14	14x14	1140					
					16x16	16x16	1630					
R-2 R-2D	PRICE	APDDR	PERFORATED MODULE RETURN	12"x12"	8x8	8x8	250	ALUMINUM	LAY-IN OR SURFACE (REF: RCP)	25	0.1	1,3,4,9
					8x8	8x8	250					
					8x8	8x8	250					
					8x8	8x8	250					
					8x8	8x8	250					
R-3 R-3D	PRICE	620	SIDEWALL RETURN GRILLE - 0° DEFLECTION	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	ALUMINUM	DUCT / SURFACE	25	0.1	3,4,9

NOTES:

1. FLUSH FACE PANEL.
2. 4-WAY AIR THROW PATTERN, UNLESS STATED OTHERWISE.
3. PROVIDE WITH REMOTE OR FACE OPERATED DAMPER REGULATOR IN AREAS WITH INACCESSIBLE CEILINGS / WALLS (REFERENCE "D" SUFFIX MARK).
4. CONTRACTOR TO COORDINATE AND CONFIRM BORDER AND MOUNTING TYPE WITH ARCHITECTURAL PLANS PRIOR TO ORDERING.
5. PROVIDE WITH MANUFACTURER'S INSULATED ENGINEERED PLENUM.
6. PROVIDE WITH MANUFACTURER'S INSULATED LOW-PROFILE PLENUM AND OVAL NECK CONNECTION [#x#] IN AREAS WHERE REQUIRED (REFERENCE "L" SUFFIX MARK).
7. ADJUST AIR PATTERN CONTROLLER FOR HORIZONTAL THROW IN DIRECTION SHOWN ON PLANS.
8. PROVIDE WITH SIGHT BAFFLE.
9. COORDINATE FINISH WITH ARCHITECT.

2/12/2019

CONDENSING UNIT SCHEDULE

MARK	MANUFACTURER	MODEL	DESCRIPTION	TOTAL COOLING CAPACITY (MBH)	HEATING CAPACITY (MBH)	CONDENSING TEMP RANGE (°F)		EFFICIENCY (NONDUCTED/DUCTED)		ELECTRICAL DATA				WEIGHT (LBS)	NOTES
						HIGH	LOW	EER	IEER	VOLTS	PH	MCA	MOCP		
CU-1	DAIKIN	REYQ288TATJU		276.9	253.9	100	0	11.8/10.5	21.6/18.6					1587.4	1-6
		- REYQ144TAYDU	HEAT RECOVERY							460	3	31.9	40		
		- REYQ144TAYDU	HEAT RECOVERY							460	3	31.9	40		
CU-2	DAIKIN	RXYQ336TATJU		303.7	247.0	100	0	9.5/9.5	20.6/18.5					1419.8	1-6
		- RXYQ168TAYDU	HEAT PUMP							460	3	25.9	35		
		- RXYQ168TAYDU	HEAT PUMP							460	3	25.9	35		

NOTES:

1. PROVIDE WITH REFRIGERANT R-410A.
2. PROVIDE REFRIGERANT PIPING TO INDOOR UNIT PER MANUFACTURERS REQUIREMENT.
3. PROVIDE WITH HAIL GUARD AND STANDARD WIND BAFFLE.
4. WARRANTY: 5-YEARS COMPRESSOR, 5-YEARS PARTS AND 5-YEARS LABOR FROM DATE OF START-UP.
5. VERIFY EXACT REFRIGERANT LINE SIZES WITH MANUFACTURER.
6. PROVIDE WITH FACTORY MOUNTED CONTROLS

1/8/2019

BRANCH SELECTOR UNIT

MARK	MANUFACTURER	MODEL	SERVES	ELECTRICAL CONNECTION DATA					WT (lbs)	NOTES
				VOLTS	PH	HZ	MCA	MOCP		
BS-1	DAIKIN	BS12Q54TVJ	CU-1	208	1	60	1.2	15	105.8	1-2
BS-2	DAIKIN	BS8Q54TVJ	CU-1	208	1	60	0.8	15	72.8	1-2

NOTES:

1. ENSURE VALVE NOISE LEVEL IS BELOW 50 DB WHILE IN OPERATION.
2. PROVIDE WITH FACTORY MOUNTED CONTROLS

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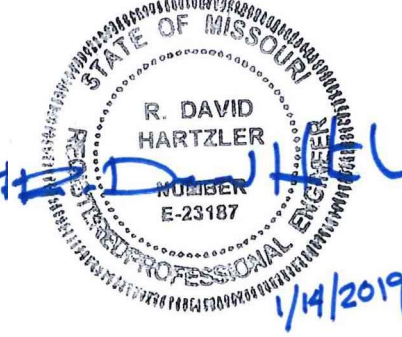
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Revision No.	Description	Date
1	ASI 01	2019-01-14
3	ASI 03	2019-02-12

Project No. 1013-004 Date 01-14-2019 Drawn SE

Drawing No.

M701

MECHANICAL SCHEDULES

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DEDICATED OUTDOOR AIR SYSTEM UNIT SCHEDULE

MARK	MANUF. AND MODEL	FAN DATA				ENERGY RECOVERY WHEEL						DX COOLING						GAS HEATING				EER	ELECTRICAL DATA				W x H x L SIZE (in.)	WEIGHT (LBS.)	NOTES
		AIRSTREAM	DESIGN AIR (CFM)	ESP (in. w.g.)	FAN HP	COOLING RECOVERED CAPACITY MBH	HEATING RECOVERED CAPACITY MBH	EAT COOLING/HEATING	LAT COOLING/HEATING	APD (in w.g.)	EAT (DB/WB)	LAT (DB/WB)	TOTAL CAP (MBH)	SENSIBLE CAP (MBH)	AMBIENT TEMP (DB)	REF.	TYPE	SIZE	STAGES	TOTAL CAP (MBH)	VOLTS		PH	FLA					
DOAS-1	DPS015A	Supply	3960	1	4	109.3	198.1	95.8/2.4	82.0/39.8	0.9	82.0/68.2	54.7/54.6	169.0	118.5	100.0	R410A	GAS	200 MBH	10:1 TURNDOWN	160.0	10.8	460	3	68.8	96.5 X 56.8 X 111.0	2723	1-7		
		Exhaust	3570	1	0.17																								

- NOTES:
1. RETURN AIR BYPASS DAMPER IS NOT PROVIDED, BLANK-OFF.
 2. AIR-FLOW MEASURING STATIONS TO BE MOUNTED IN UNIT OR PROVIDE PIEZO RINGS TO MEASURE AND CONTROL AIR SUPPLIED AND RETURNED FROM THE SPACE (VOLUME TRACKING).
 3. PROVIDE A SINGLE VFD FOR EACH SUPPLY AND RETURN FAN ARRAY. ONE VFD PER FAN.
 4. PROVIDE MERV 8 FOR THE OUTSIDE AIR INTAKE.
 5. PROVIDE MERV 8 FILTRATION ON THE EXHAUST AIRSTREAM
 6. PROVIDE ACCESS TO EACH SECTION, LIGHTS, CONROL CIRCUIT, ELECTRICAL PANEL WITH SINGLE POINT 460/3/60 ELECTRICAL SERVICE
 7. PROVIDE WITH FACTORY MOUNTED CONTROLS
 8. PROVIDE WITH HOT GAS REHEAT SECTION

INDOOR UNIT SCHEDULE

MARK	MANUFACTURER	MODEL	SERVED BY	OA CFM	MAX CFM	TOTAL COOLING CAPACITY (BTU/H)	HEATING CAPACITY (BTU/H)	ELECTRICAL DATA				WEIGHT (LBS)	NOTES
								VOLTS	PH	MCA	MOCP		
FC-1	DAIKIN	FXAQ07PVJU	CU-1	-	260	6,433	5,441	208	1	0.3	15	26.5	1-6
FC-2A	DAIKIN	FXFQ30TVJU	CU-1	-	1,112	25,794	19,055	208	1	1.3	15	57.3	1-6
FC-2B	DAIKIN	FXFQ30TVJU	CU-1	-	1,112	25,794	19,055	208	1	1.3	15	57.3	1-6
FC-2C	DAIKIN	FXFQ30TVJU	CU-1	-	1,112	25,794	19,055	208	1	1.3	15	57.3	1-6
FC-2D	DAIKIN	FXFQ30TVJU	CU-1	-	1,112	25,794	19,055	208	1	1.3	15	57.3	1-6
FC-3	DAIKIN	FXZQ05TAVJU	CU-1	20	300	5,004	4,265	208	1	0.3	15	35.3	1-6
FC-4	DAIKIN	FXZQ07TAVJU	CU-1	60	307	6,596	5,133	208	1	0.3	15	35.3	1-6
FC-5	DAIKIN	FXZQ05TAVJU	CU-1	50	300	5,004	4,265	208	1	0.3	15	35.3	1-6
FC-6	DAIKIN	FXZQ05TAVJU	CU-1	40	300	5,004	4,265	208	1	0.3	15	35.3	1-6
FC-7	DAIKIN	FXMQ72MVJU	CU-1	360	2,048	61,895	47,752	208	1	9.0	15	302.0	1-7
FC-8	DAIKIN	FXSQ05TAVJU	CU-1	-	281	5,248	4,284	208	1	0.8	15	55.0	1-7
FC-9	DAIKIN	FXSQ05TAVJU	CU-1	-	281	5,248	4,284	208	1	0.8	15	55.0	1-7
FC-10	DAIKIN	FXZQ05TAVJU	CU-1	40	300	5,004	4,265	208	1	0.3	15	35.3	1-6
FC-11	DAIKIN	FXZQ05TAVJU	CU-1	30	300	5,004	4,265	208	1	0.3	15	35.3	1-6
FC-12	DAIKIN	FXSQ30TAVJU	CU-1	150	742	21,051	15,210	208	1	1.8	15	82.0	1-7
FC-13A	DAIKIN	FXFQ48TVJU	CU-1	20	1,220	41,284	29,886	208	1	1.8	15	104.0	1-6
FC-13B	DAIKIN	FXFQ48TVJU	CU-1	-	1,220	41,284	29,886	208	1	1.8	15	57.3	1-6
FC-14	DAIKIN	FXSQ05TAVJU	CU-1	10	281	5,248	4,284	208	1	0.8	15	55.0	1-6
FC-15	DAIKIN	FXZQ15TAVJU	CU-1	60	405	13,079	9,333	208	1	0.4	15	36.4	1-6
FC-16	DAIKIN	FXSQ48TAVJU	CU-2	130	1310	39,183	29,688	208	1	2.8	15	104.0	1-7
FC-17A	DAIKIN	FXSQ48TAVJU	CU-2	220	1310	39,183	29,688	208	1	2.8	15	104.0	1-7
FC-17B	DAIKIN	FXSQ48TAVJU	CU-2	130	1310	39,183	29,688	208	1	2.8	15	104.0	1-7
FC-18	DAIKIN	FXSQ54TAVJU	CU-2	330	1310	44,084	33,404	208	1	3.3	15	104.0	1-7
FC-19	DAIKIN	FXSQ54TAVJU	CU-2	360	1380	44,084	33,404	208	1	3.3	15	104.0	1-7
FC-20	DAIKIN	FXSQ54TAVJU	CU-2	360	1380	44,084	33,404	208	1	3.3	15	104.0	1-7
FC-21A	DAIKIN	FXSQ48TAVJU	CU-2	200	1310	39,183	29,688	208	1	2.8	15	104.0	1-7
FC-21B	DAIKIN	FXSQ54TAVJU	CU-2	160	1380	44,084	33,404	208	1	3.3	15	104.0	1-7

- NOTES:
1. PROVIDE UNIT WITH WALL MOUNTED THERMOSTAT.
 2. PROVIDE REFRIGERANT PIPING TO CONDENSING UNIT PER MANUFACTURERS REQUIREMENTS.
 3. WARRANTY: 5-YEARS PARTS AND 5-YEARS LABOR FROM THE DATE OF START-UP.
 4. PROVIDE WITH CONDENSATE FLOAT TO SHUT DOWN UNIT AT OVERFLOW CONDITIONS.
 5. PROVIDE WITH INTEGRAL CONDENSATE PUMP ACCESSORY.
 6. PROVIDE WITH INTEGRAL DISCONNECT.
 7. CONTRACTOR TO FIELD INSTALL FILTER BOXES.

1/14/2019

ELECTRIC UNIT HEATER SCHEDULE

MARK	MANUFACTURER	MODEL	SERVES	KW	CAPACITY (BTUh)	ELECTRICAL			TEMP RISE (°F)	CFM	WEIGHT (LBS.)	NOTES
UH-1	QMARK	CDF-558		5.0	17.1	VOLTS	PH	MCA	45	300	27	1-3

- NOTES:
1. MECHANICAL CONTRACTOR TO PROVIDE WITH REMOTE THERMOSTAT.
 2. CONTRACTOR TO COORDINATE AND CONFIRM BORDER AND MOUNTING TYPE WITH ARCHITECTURAL PLANS PRIOR TO ORDERING.
 3. PROVIDE WITH MANUFACTURER'S RECOMMENDED CLEARANCES.



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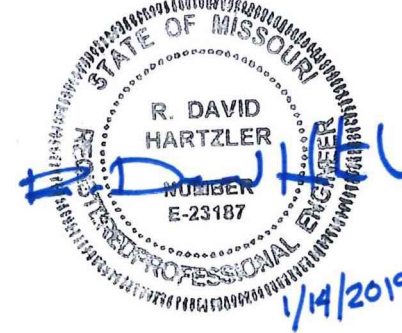
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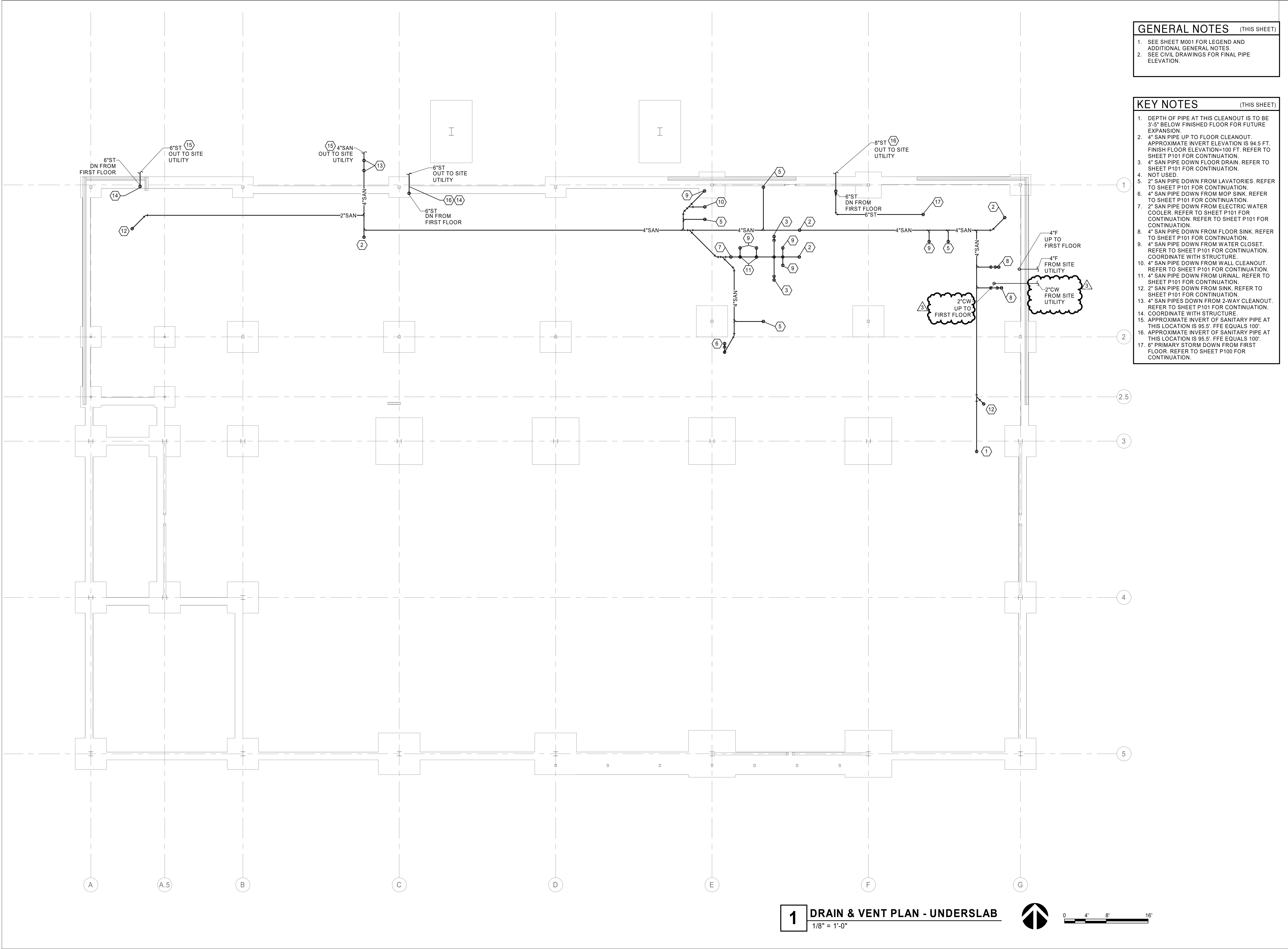
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Revision No.	Description	Date
1	ASI 01	2019-01-14

Project No. 1013-004	Date 08-16-2018	Drawn SE
Drawing No.		

M702
MECHANICAL SCHEDULES

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GENERAL NOTES (THIS SHEET)

- SEE SHEET M001 FOR LEGEND AND ADDITIONAL GENERAL NOTES.
- SEE CIVIL DRAWINGS FOR FINAL PIPE ELEVATION.

KEY NOTES (THIS SHEET)

- DEPTH OF PIPE AT THIS CLEANOUT IS TO BE 3'-5" BELOW FINISHED FLOOR FOR FUTURE EXPANSION.
- 4" SAN PIPE UP TO FLOOR CLEANOUT. APPROXIMATE INVERT ELEVATION IS 94.5 FT. FINISH FLOOR ELEVATION=100 FT. REFER TO SHEET P101 FOR CONTINUATION.
- 4" SAN PIPE DOWN FLOOR DRAIN. REFER TO SHEET P101 FOR CONTINUATION.
- NOT USED.
- 2" SAN PIPE DOWN FROM LAVATORIES. REFER TO SHEET P101 FOR CONTINUATION.
- 4" SAN PIPE DOWN FROM MOP SINK. REFER TO SHEET P101 FOR CONTINUATION.
- 2" SAN PIPE DOWN FROM ELECTRIC WATER COOLER. REFER TO SHEET P101 FOR CONTINUATION. REFER TO SHEET P101 FOR CONTINUATION.
- 4" SAN PIPE DOWN FROM FLOOR SINK. REFER TO SHEET P101 FOR CONTINUATION.
- 4" SAN PIPE DOWN FROM WATER CLOSET. REFER TO SHEET P101 FOR CONTINUATION. COORDINATE WITH STRUCTURE.
- 4" SAN PIPE DOWN FROM WALL CLEANOUT. REFER TO SHEET P101 FOR CONTINUATION.
- 4" SAN PIPE DOWN FROM URINAL. REFER TO SHEET P101 FOR CONTINUATION.
- 2" SAN PIPE DOWN FROM SINK. REFER TO SHEET P101 FOR CONTINUATION.
- 4" SAN PIPES DOWN FROM 2-WAY CLEANOUT. REFER TO SHEET P101 FOR CONTINUATION. COORDINATE WITH STRUCTURE.
- APPROXIMATE INVERT OF SANITARY PIPE AT THIS LOCATION IS 95.5'. FFE EQUALS 100'.
- APPROXIMATE INVERT OF SANITARY PIPE AT THIS LOCATION IS 95.5'. FFE EQUALS 100'.
- 6" PRIMARY STORM DOWN FROM FIRST FLOOR. REFER TO SHEET P100 FOR CONTINUATION.

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The personal seal of the registered Architect or Engineer shall be the legal equivalent of his signature whenever & wherever used, and the owner of the seal shall authenticate this seal and the specification sections pertaining to this sheet. Responsibility shall be disclaimed for all other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural project.

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R. David Hartzler, Engineer MO 023187

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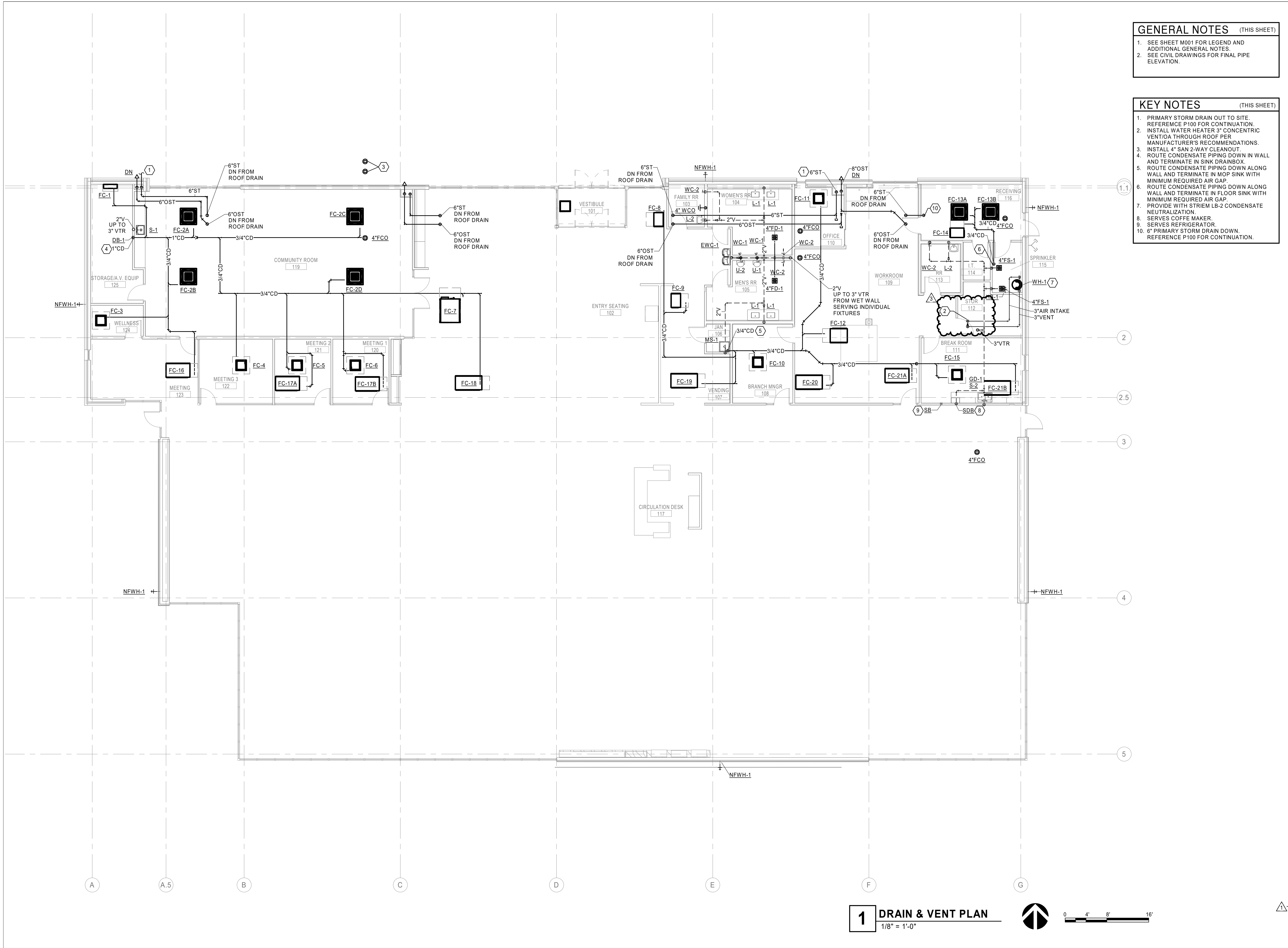
Revision No.	Description	Date
1	ASI 01	2019-01-14
3	ASI 03	2019-02-12

Project No. 1013-004 Date 01-14-2019 Drawn SE

Drawing No. **P100**

**DRAIN & VENT PLAN -
UNDERSLAB**

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GENERAL NOTES (THIS SHEET)

1. SEE SHEET M001 FOR LEGEND AND ADDITIONAL GENERAL NOTES.
2. SEE CIVIL DRAWINGS FOR FINAL PIPE ELEVATION.

KEY NOTES (THIS SHEET)

1. PRIMARY STORM DRAIN OUT TO SITE. REFERENCE P100 FOR CONTINUATION.
2. INSTALL WATER HEATER 3" CONCENTRIC VENT/OA THROUGH ROOF PER MANUFACTURER'S RECOMMENDATIONS.
3. INSTALL 4" SAN 2-WAY CLEANOUT.
4. ROUTE CONDENSATE PIPING DOWN IN WALL AND TERMINATE IN SINK DRAINBOX.
5. ROUTE CONDENSATE PIPING DOWN ALONG WALL AND TERMINATE IN MOP SINK WITH MINIMUM REQUIRED AIR GAP.
6. ROUTE CONDENSATE PIPING DOWN ALONG WALL AND TERMINATE IN FLOOR SINK WITH MINIMUM REQUIRED AIR GAP.
7. PROVIDE WITH STRIEM LB-2 CONDENSATE NEUTRALIZATION.
8. SERVES COFFE MAKER.
9. SERVES REFRIGERATOR.
10. 6" PRIMARY STORM DRAIN DOWN. REFERENCE P100 FOR CONTINUATION.

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STATE OF MISSOURI
R. DAVID HARTZLER
NUMBER
B-33167
2/12/19

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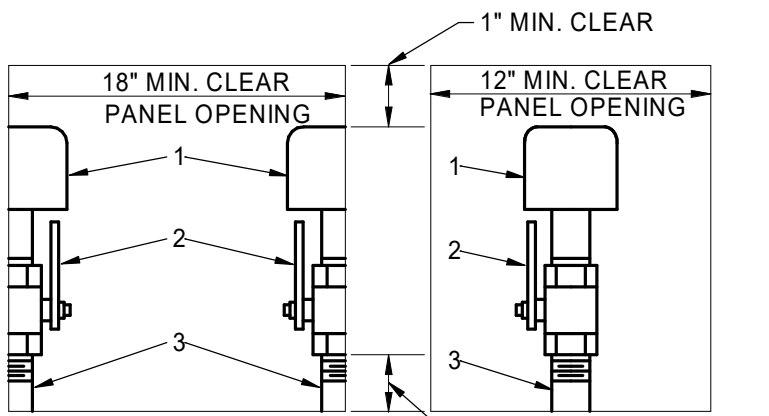
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Revision No.	Description	Date
1	ASI 01	2019-01-14
3	ASI 03	2019-02-12

Project No.	Date	Drawn
1013-004	01-14-2019	SE

Drawing No.
P101
DRAIN & VENT PLAN

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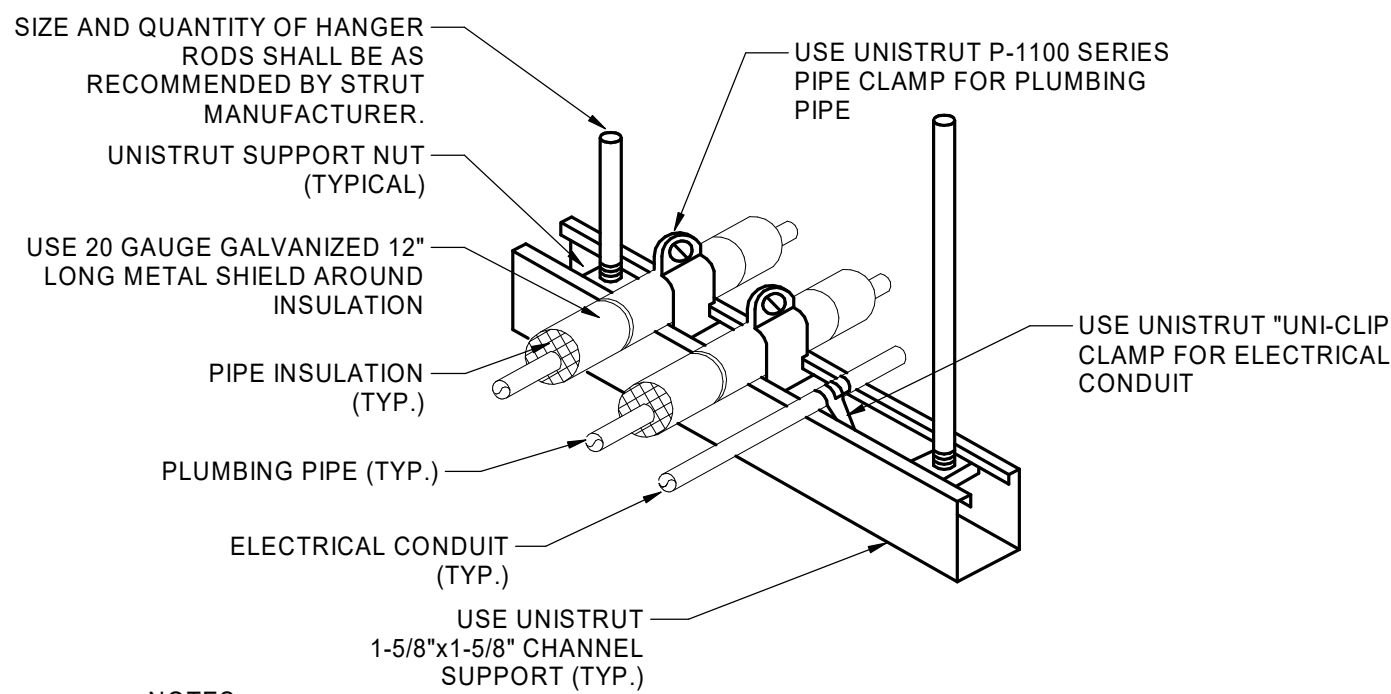


KEY:
1. WATER HAMMER ARRESTER.
2. BALL VALVE, SAME NOMINAL SIZE AS PIPE BRANCH IN CHASE. OPENING IN BALL VALVE TO MATCH PIPE ID.
3. PIPE SAME SIZE AS BRANCH IN CHASE TO WHICH IT IS ATTACHED.

NOTE:
1. PROVIDE REDUCER IF REQUIRED BETWEEN VALVE AND WATER HAMMER ARRESTER.

6 TYPICAL WATER HAMMER ARRESTER PANEL

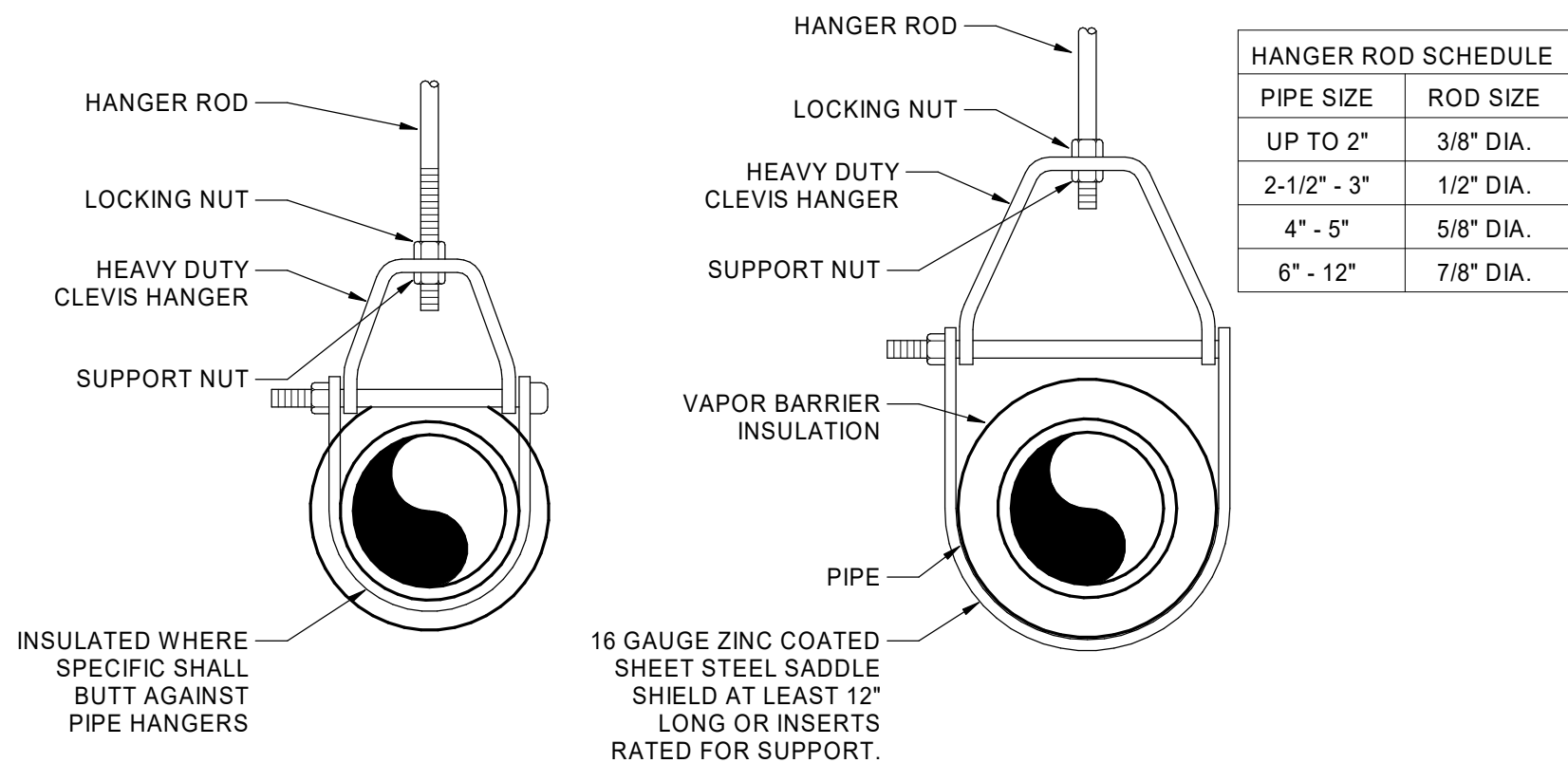
N.T.S.



NOTES:
1. PIPE AND CONDUIT OF ALL TRADES MAY BE COMBINED ON SAME SUPPORT CHANNEL WHERE PRACTICAL.
2. SUPPORT CHANNEL LENGTH SHALL NOT BE DETERMINED UNTIL ALL PIPING AND CONDUIT TO BE SUPPORTED IS COORDINATED.

3 TRAPEZE PIPE HANGER

N.T.S.

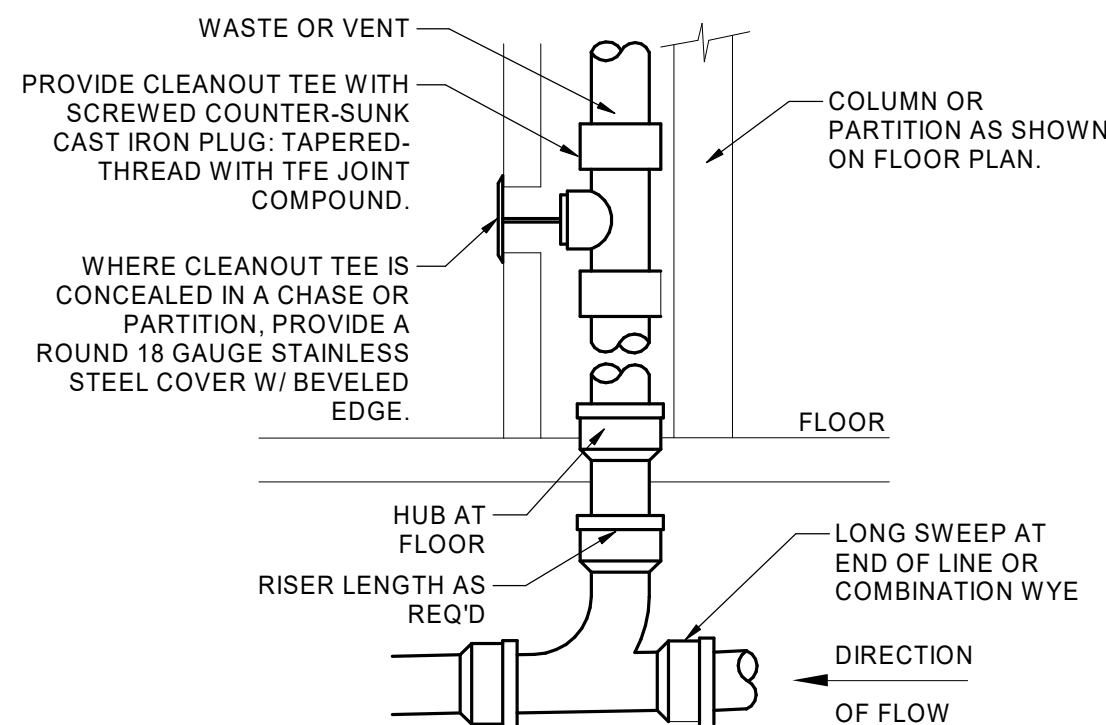


SINGLE HORIZONTAL RUNS
WITH NO VAPOR BARRIER
INSULATION

SINGLE HORIZONTAL RUNS
WITH VAPOR BARRIER
INSULATION

8 CLEVIS HANGER

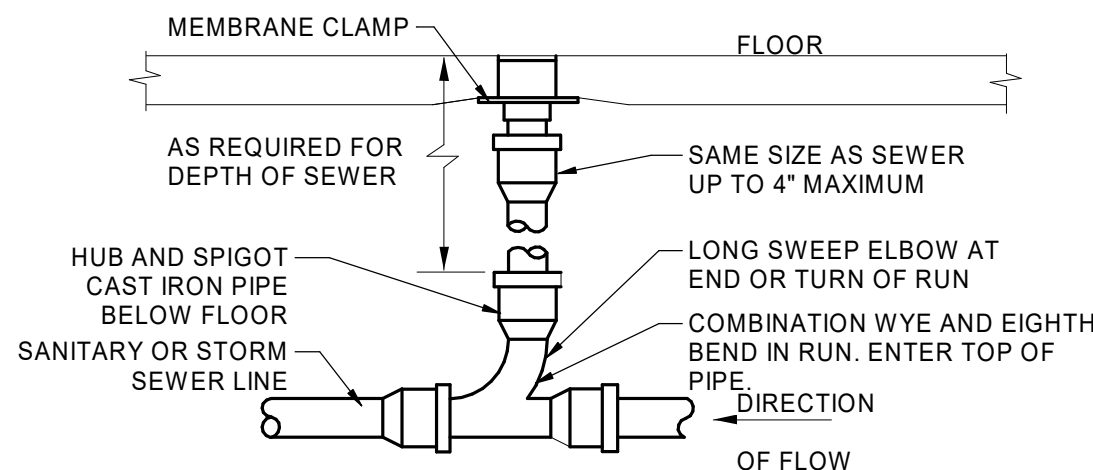
N.T.S.



NOTES:
1. PROVIDE WCO AT BASE OF ALL RAIN-LEADER DOWNSPOUTS. PROVIDE WCO WHERE SHOWN ON PLANS, AND ON SANITARY WASTE BRANCHES NOT SERVED WITH A FLOOR CLEANOUT. LOCATE ABOVE FUTURE FLOOD RIM WITHIN 4" OF FLOOR. CONSULT LOCAL CODES FOR OTHER WCO REQUIREMENTS. REFER TO PLUMBING FIXTURE SCHEDULE FOR FURTHER INFORMATION.
2. CLEANOUT FACE SHALL BE WITHIN 4" OF WALL SURFACE. PROVIDE EXTENSION IF REQUIRED.

5 TYPICAL WALL CLEANOUT

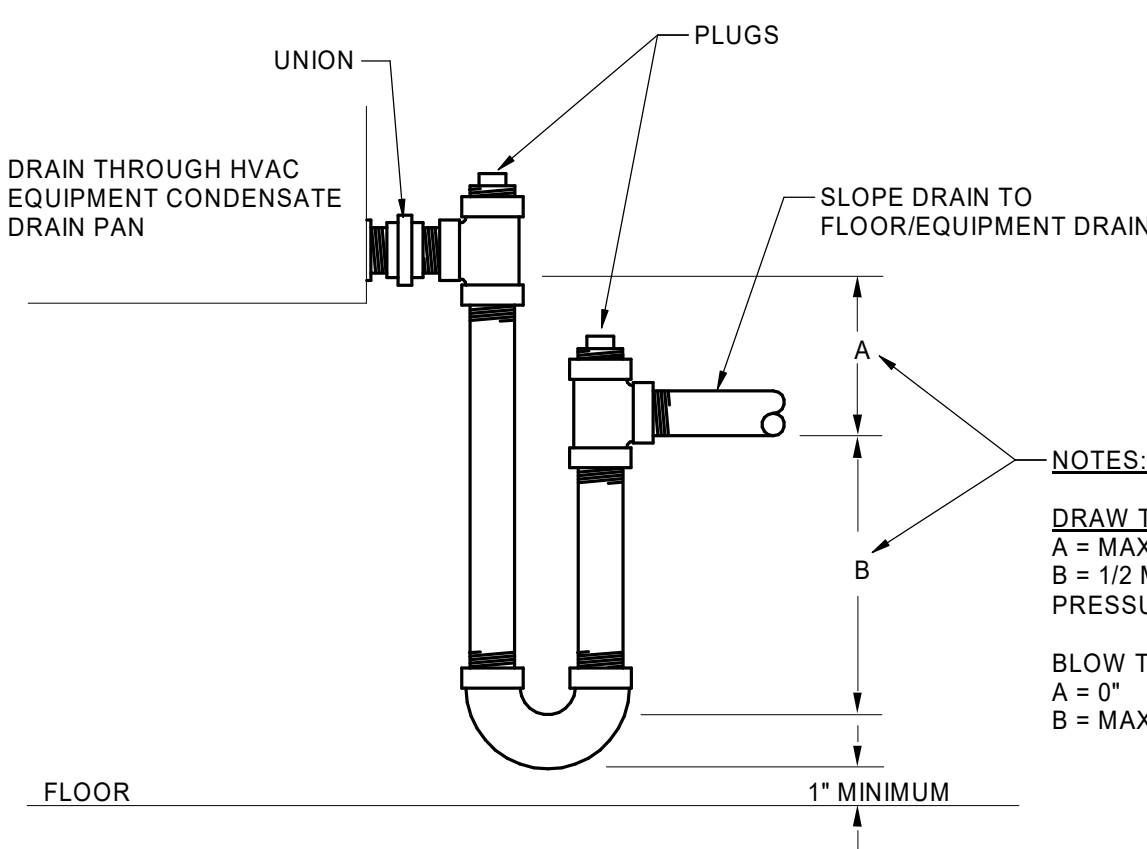
N.T.S.



NOTES: HEAVY DUTY VANDAL PROOF
1. ROUND SECURED GASKETED CAST IRON ADJUSTABLE TOP WITH "CO" CAST IN COVER. PROVIDE CLEANOUT TOP WITH VARIATIONS SUITABLE FOR FLOOR COVERING (CARPET MARKER, RECESSED FOR TILE, SCORATED CAST IRON FOR UNFINISHED FLOORS). PROVIDE GASKETED PLASTIC PLUG IN CAST IRON BODY. USE TEFLON JOINT COMPOUND ON PLUG THREADS. CLEAN THE TOP OF EXPOSED FCO AFTER INSTALLATION.
2. LOCATE AT BUILDING EXIT, AT ENDS OF RUNS, AT TURNS OF PIPE GREATER THAN 45 DEGREES, AT 100' INTERVALS ON STRAIGHT RUNS, AND/OR WHERE SHOWN ON PLANS. PROVIDE BACKFILL PER ARCHITECTURAL SPECIFICATIONS. LOCATE CLEANOUTS WHERE THERE IS 18" CLEAR AROUND. CONSULT LOCAL CODES FOR OTHER FCO REQUIREMENTS.

2 TYPICAL FLOOR CLEANOUT

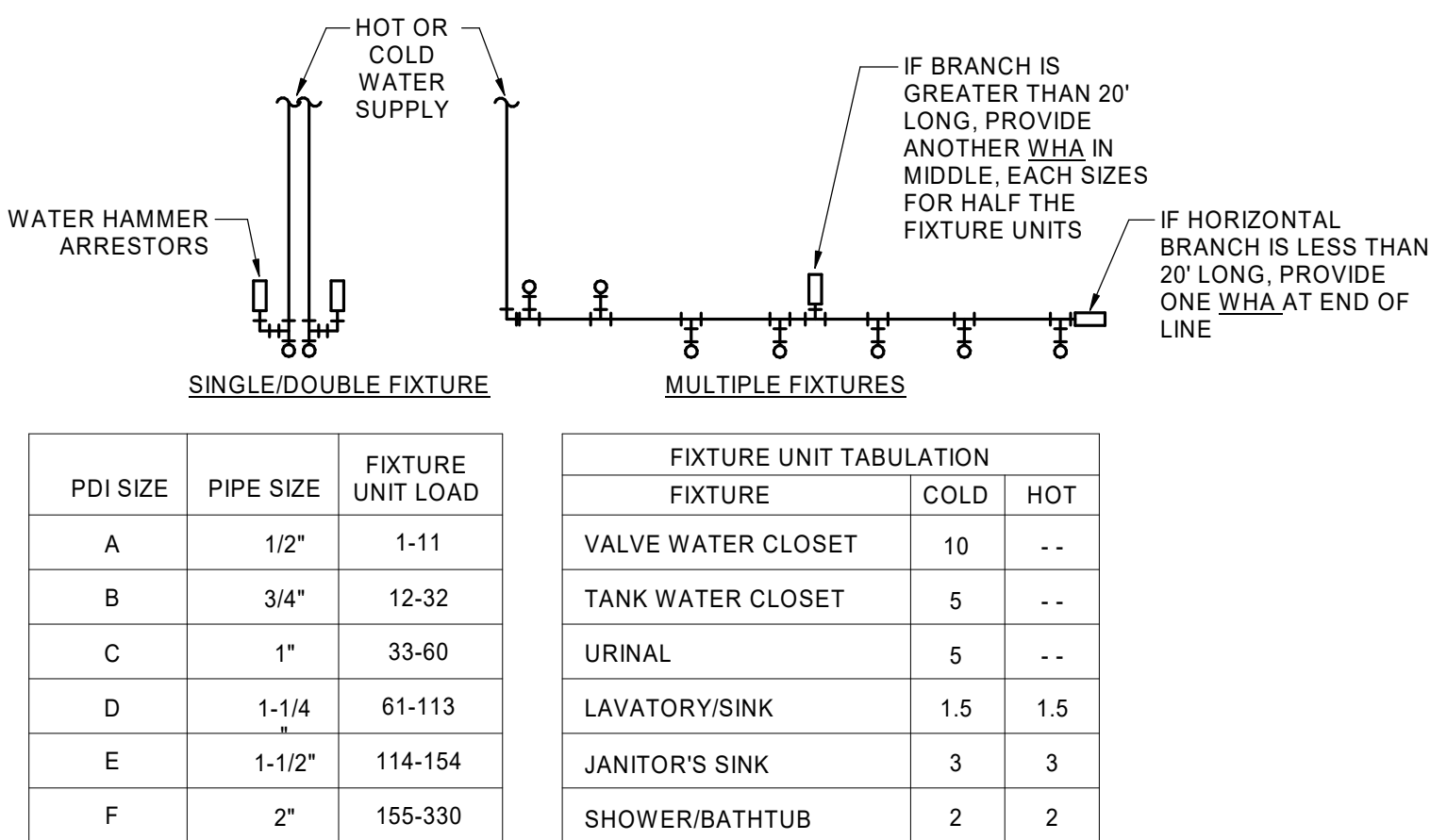
N.T.S.



7 HVAC CONDENSATE TRAP

N.T.S.

NOTES:
1. FOR BATTERIES OF FIXTURES, PROVIDE WATER HAMMER ARRESTORS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON AND O-RING CONSTRUCTION, HAVING PDI#WH-201, ASSE #1010 AND ANSI #A112.28.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS AS SHOWN ON THE DRAWINGS AND/OR THE TABLES SHOWN ABOVE. PROVIDE ACCESSIBILITY TO "WHA" WHERE REQUIRED BY LOCAL CODE.
2. INSTALL PER PDI STANDARDS AND MANUFACTURER'S INSTRUCTIONS. PROVIDE A WHA AT ALL QUICK-CLOSING VALVES.



4 WATER HAMMER ARRESTOR

N.T.S.

1 VENT THROUGH ROOF

N.T.S.

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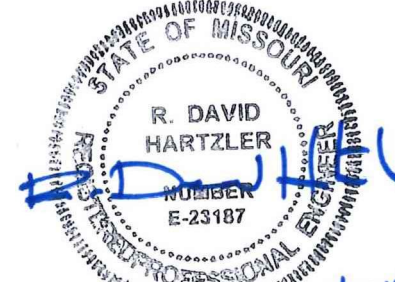
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Revision No. Description Date

Project No. 1013-004 Date 08-16-2018 Drawn SE

Drawing No.
P501
PLUMBING DETAILS

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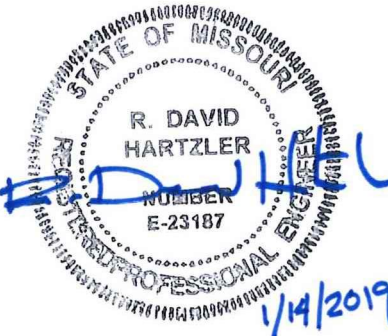
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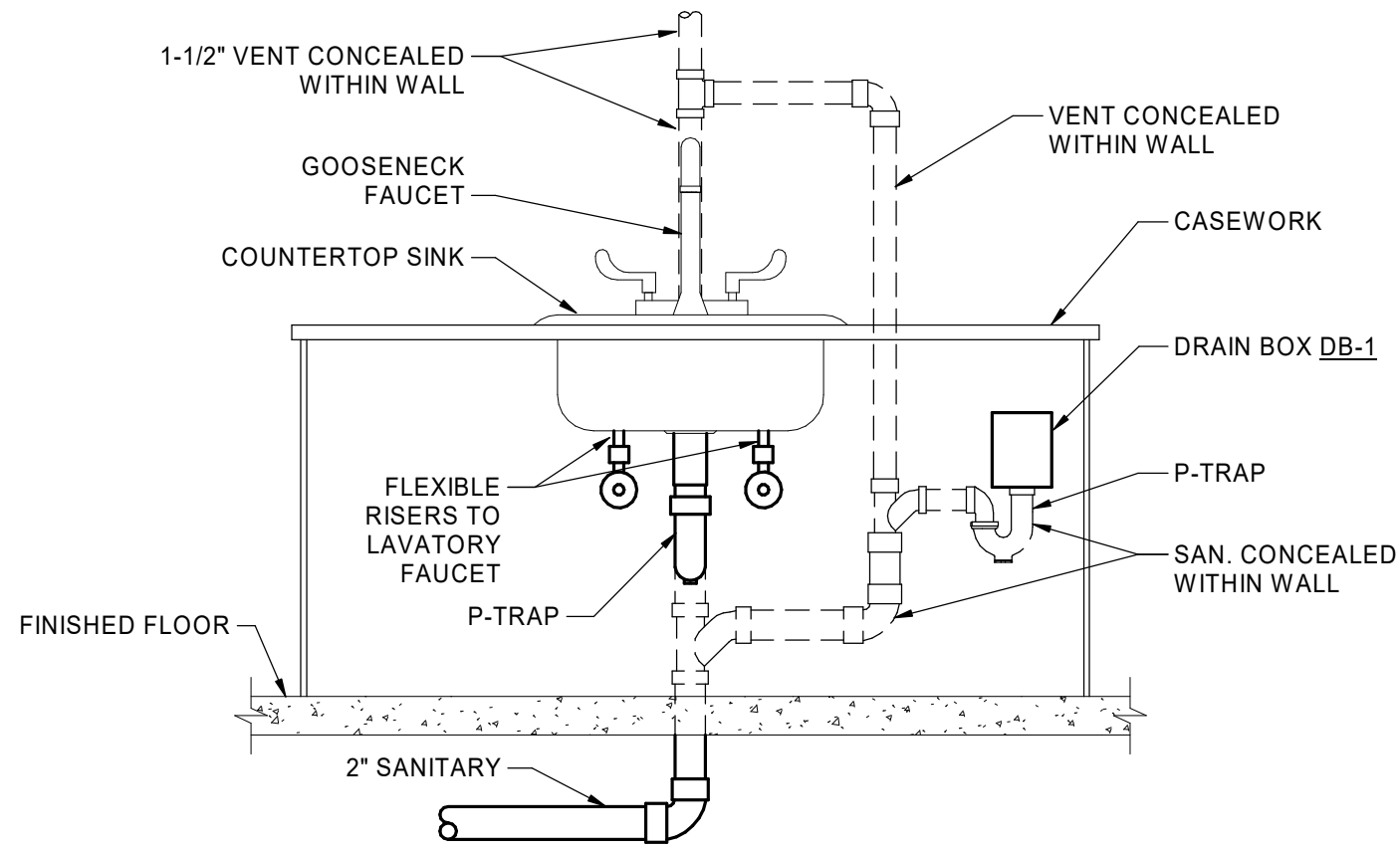
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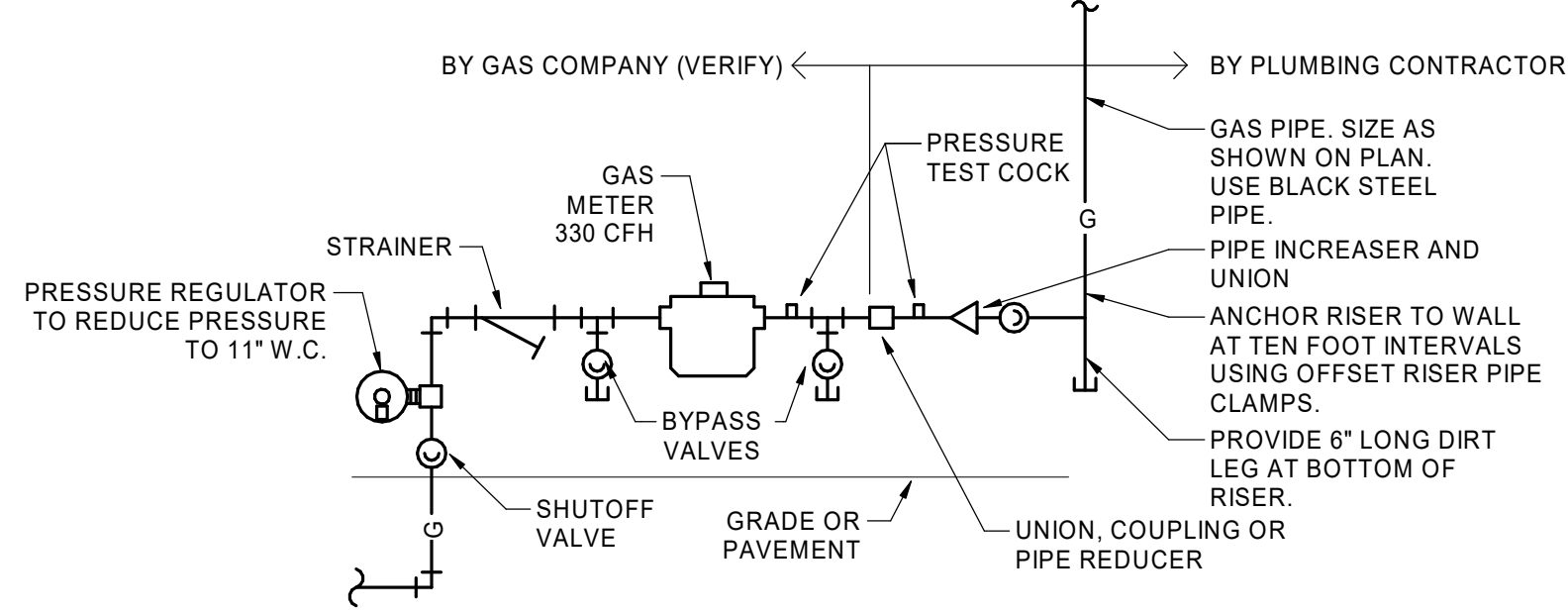
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Revision No.	Description	Date

Project No. 1013-004	Date 08-16-2018	Drawn SE
Drawing No. P502 PLUMBING DETAILS		



3

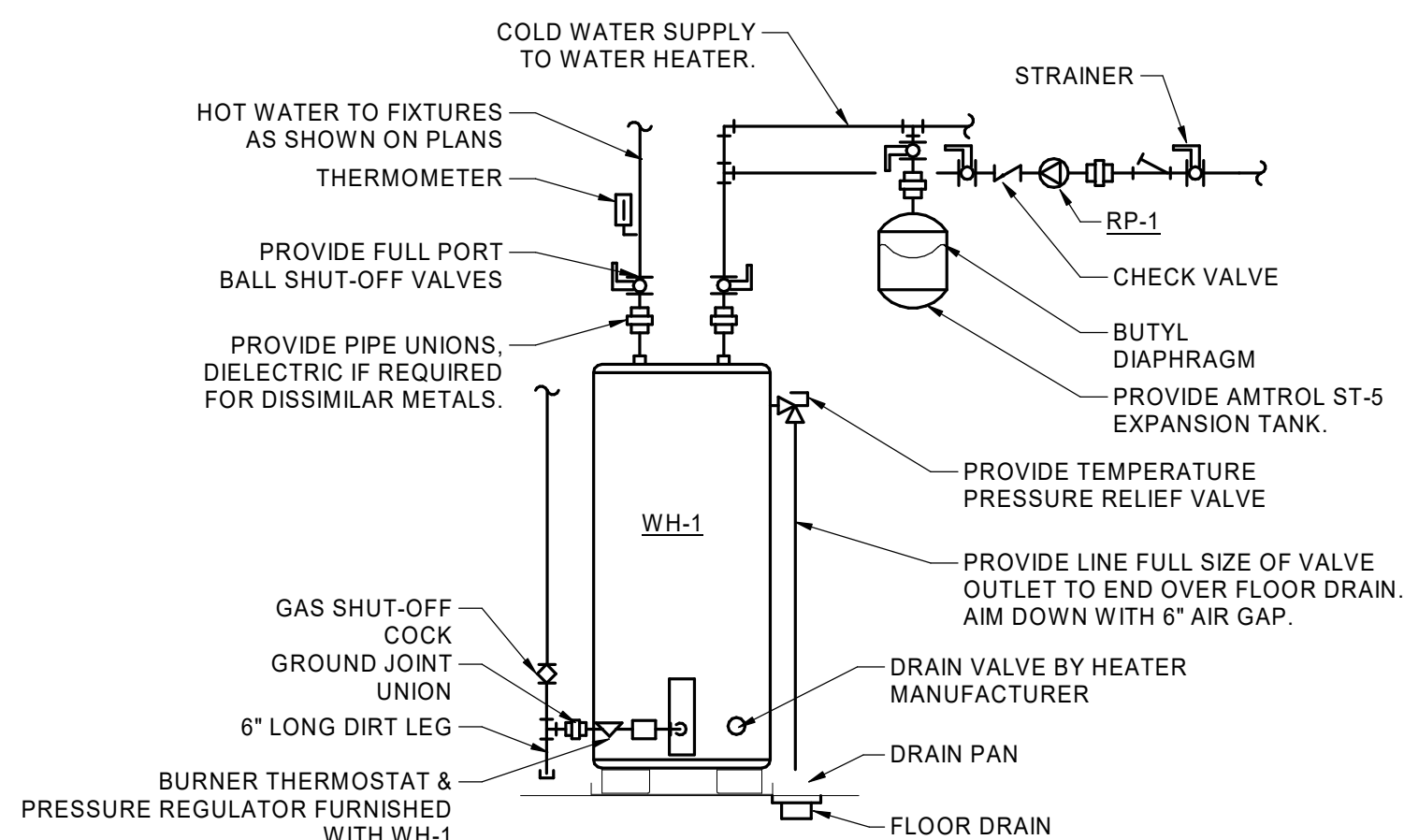
DRAIN BOX DWV
N.T.S.



- NOTES:
1. VERIFY REQUIREMENTS FOR METERING AND PIPING WITH GAS COMPANY. INSTALL OTHER UTILITIES MINIMUM TEN FEET FROM GAS LINE. PLUMBING CONTRACTOR SHALL PAY ALL GAS COMPANY FEES FOR INSTALLATION. USE WELDED OR SCREWED PIPE AND FITTINGS. GAS COMPANY SHALL EXCAVATE, BACKFILL, AND REPAIR ANY PAVING OR SOD FOR GAS SERVICE LINE INSTALLATION FROM MAIN TO BUILDING.
 2. MINIMUM 6\"

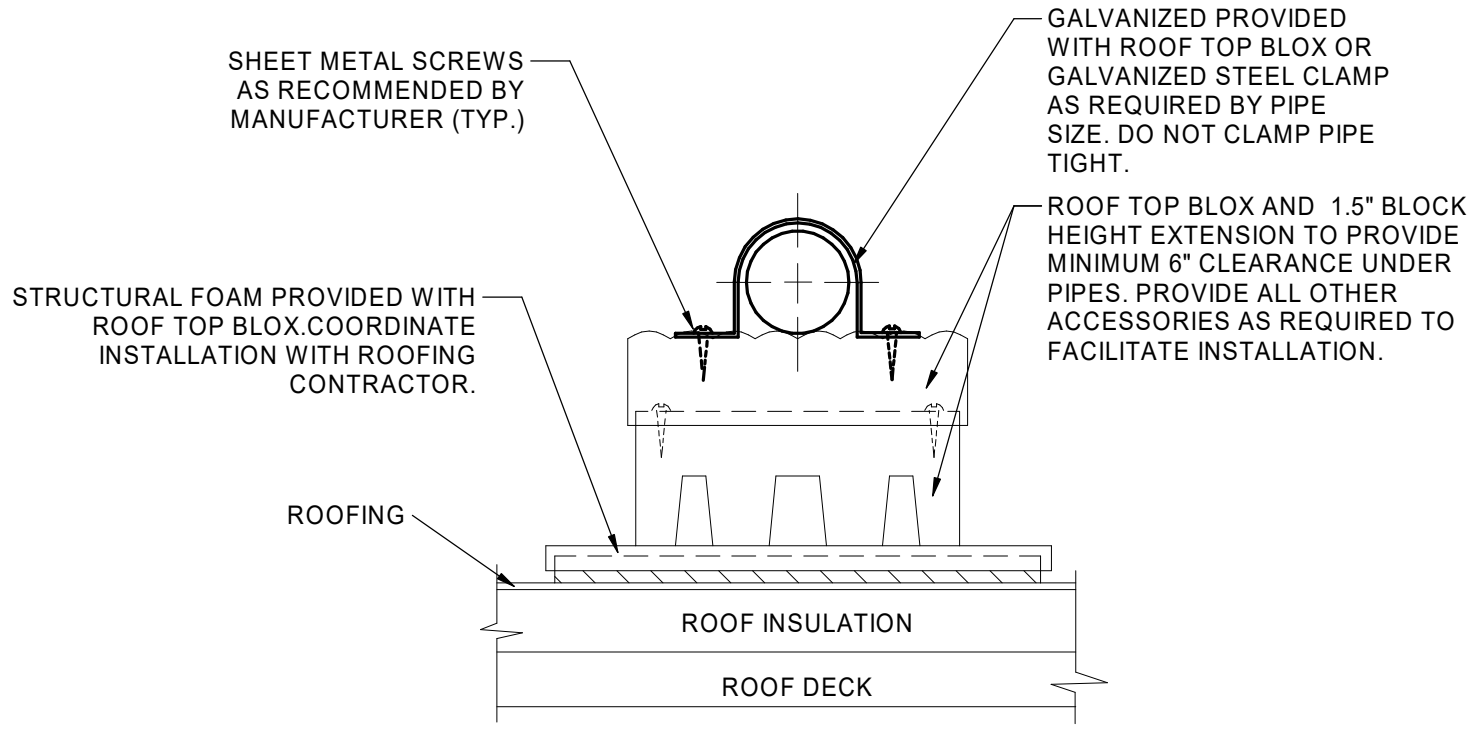
2

GAS SERVICE WITH REGULATOR
N.T.S.



1

GAS WATER HEATER
N.T.S.

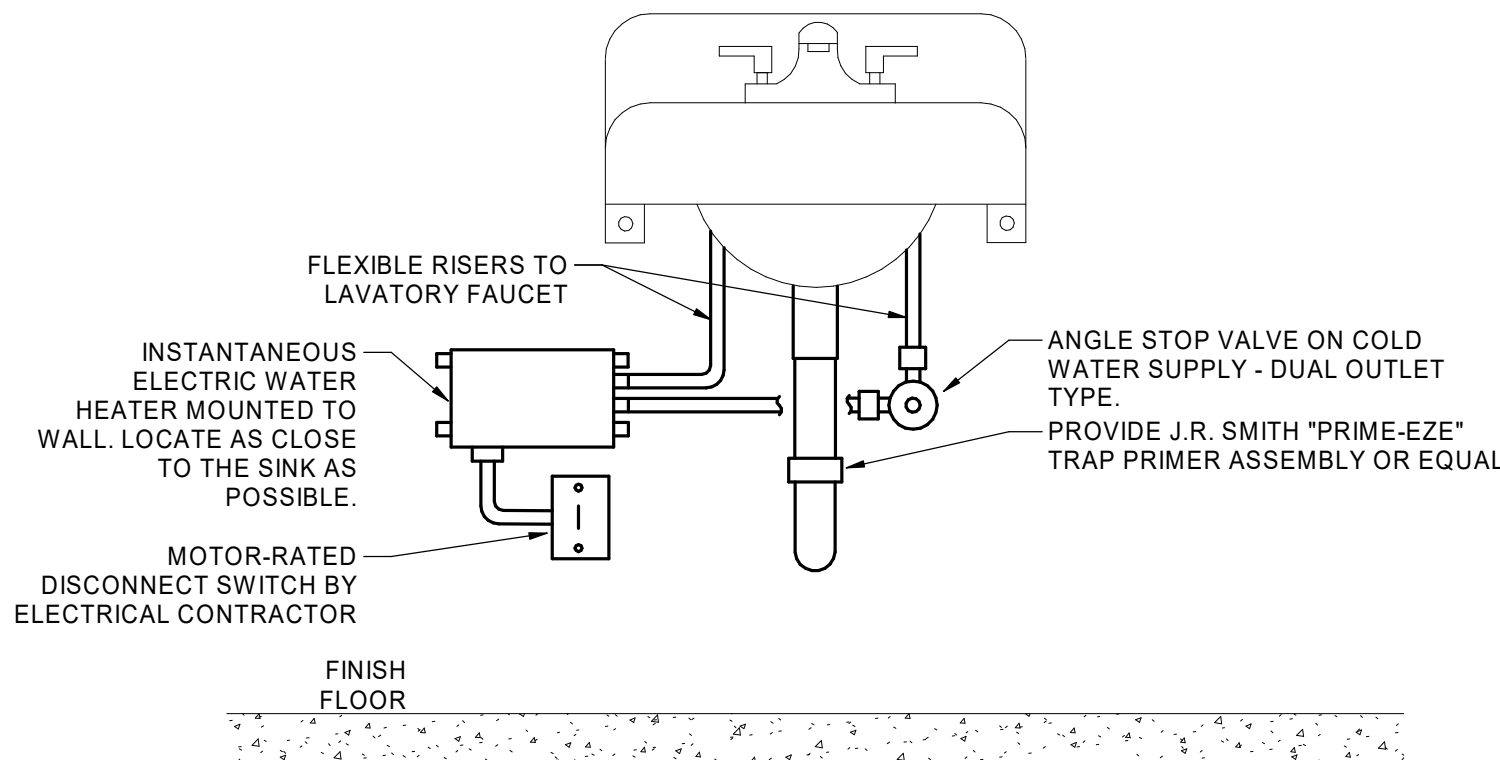


LOCATE SUPPORTS AT THE FOLLOWING:

1. SPACING FOR METAL PIPE: 1/2\"

5

GAS PIPE SUPPORT ON ROOF
N.T.S.



4

INSTANTANEOUS WATER HEATER
N.T.S.

PLUMBING FIXTURES AND SPECIALTIES CONNECTION SCHEDULE							
MARK	FUNCTION	MANUFACTURER AND MODEL	WASTE	VENT	CW/GW	HW	ELEC.
WCO	WALL CLEANOUT	ZURN - Z1446-BP: CAST IRON CLEANOUT TEE WITH BRONZE CLEANOUT PLUG, ROUND STAINLESS STEEL ACCESS COVER WITH ANCHOR SCREW, COVER SIZE AND SCREW LENGTH ADJUSTABLE, OR EQUIVALENT	SEE PLANS				
FFCO	FINISHED FLOOR CLEANOUT	WADE - 6000 - CAST IRON CLEANOUT, THREADED ADJUSTABLE HOUSING, FLANGED FERRULE, ROUND SECURED NICKEL BRONZE TOP, FOR LIGHT DUTY (UNDER 2,000 LBS.), OR EQUIVALENT	SEE PLANS				
FD-1	FLOOR DRAIN	ZURN - ZN415BZ: CAST IRON FLOOR DRAIN, 6" DIAMETER STRAINER, 8"DIA. BODY, SEEPAGE SLOTS, COMBO MEMBRANE CLAMP AND ADJUSTABLE COLLAR, LIGHT DUTY NICKEL BRONZE STRAINER, OR EQUIVALENT	SEE PLANS	SEE PLANS			
FS-1	FLOOR SINK	WADE - 9150-64: CAST IRON 12" SQUARE FLOOR SINK, 10" DEEP SUMP, WHITE A.R.E. COATED INTERIOR, ALUMINUM DOME STRAINER, (1/2,3/4,FULL) A.R.E. GRATE FOR LIGHT DUTY (UNDER 2,000 LBS.), ALUMINUM BASKET STRAINER, OR EQUIVALENT	SEE PLANS	SEE PLANS			
EWC-1	ELECTRIC WATER COOLER	ELKAY EZH2O BOTTLE FILLING STATION & VERSATILE BI-LEVEL ADA COOLER, MODEL LZSTL8WSLK. PROVIDE WITH CANE APRON.	1-1/2"	1-1/4"	1/2"		HARDWIRED
NF-WH-1	NON-FREEZE WALL HYDRANT	WOODFORD - MODEL B65 - 3/4" NON-FREEZE WALL HYDRANT, AUTOMATIC DRAINING, PERMANENT TYPE BRASS VALVE BODY WITH HEMISPHERICAL SEATING SURFACE, ONE PIECE VALVE PLUNGER, DRAIN UNDER THE NOZZLE, CASING - COPPER TUBES, STEM - HARDENED STAINLESS STEEL, PROVIDE WITH NIDEL MODEL 34HA VACUUM BREAKER, PROVIDE WITH LOOSE TEE KEY, SEE ARCHITECTURAL PLANS FOR WALL THICKNESS, OR EQUIVALENT			3/4"		
HB-1	HOSE BIBB	WOODFORD - MODEL 24: WALL FAUCET, BRASS CASTING, EPDM PACKING, FURNISHED WITH POLYCARBONATE WHEEL HANDLE AND LOOSE TEE KEY, PROVIDE A VACUUM BREAKER NIDEL - MODEL 34HF, OR EQUIVALENT			3/4"		
RHB-1	ROOF HOSE BIBB	WOODFORD - RHY1 - ROOF HOSE BIBB, CAST IRON HYDRANT SUPPORT COMPONENTS, WELL SEAL TIGHTENS BETWEEN HYDRANT SUPPORT AND HYDRANT PIPE, EPDM BOOT TO COVER WELL SEAL AND TOP OF HYDRANT SUPPORT, 2 DEGREE SHIM SUPPLIED FOR INSTALLATION ON PITCHED ROOFS IF NEEDED, MAXIMUM WORKING PRESSURE OF 125 PSI, MAXIMUM WORKING TEMPERATURE OF 120 DEGREES F, PROVIDED WITH 3/4" HOSE CONNECTION, 1/8" DRAIN HOLE THAT MUST BE PIPED TO A DRAIN LOCATION, OR EQUIVALENT			1"		
GD-1	GARBAGE DISPOSAL	IN-SINK-ERATOR - EVOLUTION EXCEL - AUTO-REVERSE GRIND SYSTEM FEATURE, PERMANENTLY LUBRICATED UPPER AND LOWER BEARINGS, 25.5 LBS., PROVIDE WITH SPECIFIED SINK, OR EQUIVALENT					120/1/60 1.0 HP 10.2 AMPS
L-1	UNDERMOUNT LAVATORY	PROFLO - PF1812U: UNDERMOUNT VITREOUS CHINA 18"x12" LAVATORY, MOUNT AT ADA HEIGHT. PROVIDE WITH WHITE FINISH.	1-1/2"	1-1/2"			
	FAUCET	ZURN - Z6915-XL-N-10S: CHROME PLATED SENSOR FAUCET, 4" CENTERS PROGRAMMED FOR 10SEC RUNTIME, 0.5GPM VANDAL RESISTANT LAMINAR, OR EQUIVALENT			3/8"	3/8"	BATTERY
L-2	WALL HUNG LAVATORY	ZURN - Z5310: WALL HUNG VITREOUS CHINA 20"x18" LAVATORY, WITH BACK SPLASH AND TAPERED SIDES, 4" CENTERS, FOR CONCEALED ARM CARRIER, WITH OVERFLOW, OR EQUIVALENT MOUNT AT ADA HEIGHT	1-1/2"	1-1/2"			
	FAUCET	ZURN - Z6915-XL-N-10S: CHROME PLATED SENSOR FAUCET, 4" CENTERS PROGRAMMED FOR 10SEC RUNTIME, 0.5GPM VANDAL RESISTANT LAMINAR, OR EQUIVALENT			3/8"	3/8"	BATTERY
S-1	SINGLE COMPARTMENT SINK	ELKAY - BCR15: DROP IN TYPE, 20 GAUGE STAINLESS STEEL SINK, SINGLE BOWL WITH 4" CENTERS, OR EQUIVALENT. PROVIDE WITH ASSE 1070 POINT OF USE THERMOSTATIC MIXING VALVE.	1-1/2"	1-1/2"			
	FAUCET	ZURN - Z812B4-XL-22F: CHROME PLATED 5-3/8" MANUAL GOOSENECK FAUCET, 4" CENTERS WITH 4" COLOR CODED WRIST BLADES, 1.0GPM VANDAL RESISTANT LAMINAR FLOW OUTLET, OR EQUIVALENT			1/2"	1/2"	
S-2	DOUBLE COMPARTMENT SINK	ELKAY - ECT SRAD33226TBG DOUBLE BOWL WITH 4" CENTERS, ADA COMPLIANT OR EQUIVALENT	1-1/2"	1-1/2"			
	FAUCET	ZURN - Z812B4-XL-22F: CHROME PLATED 5-3/8" MANUAL GOOSENECK FAUCET, 4" CENTERS WITH 4" COLOR CODED WRIST BLADES, 1.0GPM VANDAL RESISTANT LAMINAR FLOW OUTLET, OR EQUIVALENT			1/2"	1/2"	
MS-1	MOP SINK	FIAT - MSB-2424 - MOP SERVICE SINK, MOLDED STONE, 24"x24"x10" DEEP, STAINLESS STEEL FACTORY INSTALLED DRAIN BODY WITH A QDC-3 CONNECTOR FOR A 3" PIPE, COMBINATION DOME STRAINER AND STAINLESS STEEL LINT BASKET, PROVIDE MOP BRACKET #889 CC, PROVIDE VINYL BUMPER GUARDS #E-77-AA, PROVIDE 30" LONG FLEXIBLE 5/8" RUBBER HOSE AND BRACKET #832 AA, OR EQUIVALENT	3"	2"			
	FAUCET	ZURN - Z843M4-XL-CS: CHROME PLATED WALL FAUCET WITH 8" CENTERS, 3/4" THREADED HOSE OUTLET, VACUUM BREAKER, WALL BRACE, PAIL HOOK, PROVIDE WITH CHECK STOPS, OR EQUIVALENT			1/2"	1/2"	

WC-1	DUAL FLUSH WATER CLOSET	ZURN - Z5655-BWL1: FLOOR MOUNTED VITREOUS CHINA WATER CLOSET, 1.6GPF, ELONGATED FRONT RIM, SIPHON JET OR EQUIVALENT	4"	2"			
	FLUSH VALVE	ZURN - ZTR6200-ONE: CHROME PLATED DIAPHRAGM TYPE SENSOR DUAL FLUSH VALVE, 1.1GPF, PROVIDE ALL ACCESSORIES NEEDED FOR HARDWIRED APPLICATION, OR EQUIVALENT			1"		BATTERY
WC-2	DUAL FLUSH WATER CLOSET	ZURN - Z5665-BWL1: FLOOR MOUNTED VITREOUS CHINA WATER CLOSET, 1.6GPF, ELONGATED FRONT RIM, SIPHON JET, ADA COMPLIANT, OR EQUIVALENT	4"	2"			
	FLUSH VALVE	ZURN - ZTR6200-ONE: CHROME PLATED DIAPHRAGM TYPE SENSOR DUAL FLUSH VALVE, 1.1GPF, PROVIDE ALL ACCESSORIES NEEDED FOR BATTERY APPLICATION, OR EQUIVALENT			1"		BATTERY
U-1	ULTRA LOW FLOW URINAL	ZURN - Z5755: WALL MOUNTED VITREOUS CHINA URINAL, 0.125GPF, OR EQUIVALENT. MOUNT AT ADA HEIGHT.	2"	1-1/2"			
	FLUSH VALVE	ZURN - ZTR6203-ULF: CHROME-PLATED DIAPHRAGM-TYPE SENSOR-ACTIVATED, FLUSH VALVE, 0.125GPF, PROVIDE ALL ACCESSORIES NEEDED FOR HARDWIRED APPLICATION, OR EQUIVALENT. MOUNT AT ADA HEIGHT.			3/4"		BATTERY
DB	DRAIN BOX	SOUIX CHIEF 696 SERIES DRAIN BOX - 696-3. DRAIN CONNECTION SHALL BE 2" AND DRAIN BOX SHALL HAVE A 5/8" INTEGRAL TEST NIPPLE.	4"	2"			
SB	SUPPLY BOX	SOUIX CHIEF ICE MAKER OUTLET BOX - 696-G101010MF	4"	2"			
SDB	SUPPLY DRAIN BOX	SOUIX CHIEF 696 SERIES SUPPLY AND DRAIN BOX.	2"	2"			
NOTES: 1. VERIFY ROUGH-IN REQUIREMENTS WITH THE MANUFACTURER'S DRAWINGS. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. 2. ALL MANUAL WATER CLOSET FLUSH VALVE HANDLES SHALL BE LOCATED ON THE TRANSFER SIDE OF THE STOOL. 3. ALL FIXTURES DESIGNATED "ADA" SHALL BE PROVIDED WITH ALL ACCESSORIES AS REQUIRED, INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS/ARCHITECTURAL INSTRUCTIONS, AND COORDINATED WITH ALL OTHER ASSOCIATED ADA REQUIRED FIXTURE COMPONENTS/CLEARANCES FOR A COMPLETE AND FULLY COMPLIANT ADA INSTALLATION.							

FUEL FIRED WATER HEATER SCHEDULE

MARK	MANUFACTURER & MODEL OR EQUAL	SERVES	FUEL	FUEL INPUT (MBH)	EFF. RANGE (%)	TURNDOWN RATIO	EWT (DEG F)	LWT (DEG F)	RECOVERY RATE (GPH)	TANK STORAGE (GAL)	ELECTRICAL DATA			NOTES
WH-1	AO SMITH BTX-100	DOMESTIC HOT WATER	NG	100	96%	-	40	122	145	50	120	1	3	1
NOTES: 1. PROVIDE WITH AGA-RATED TEMPERATURE AND PRESSURE RELIEF VALVE, TEMPERATURE AND PRESSURE GAUGES.														

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SPECIAL NOTICES

In the event the client consents to, allows, authorizes or approves of changes to any plans, specifications or other construction documents, and these changes are not approved in writing by the design professional, the client recognizes that such changes and the results thereof are not the responsibility of the design professional. Therefore, the client agrees to release the design professional from any liability arising from the construction, use or result of such changes. In addition, the client agrees to the fullest extent permitted by law, to indemnify and hold the design professional harmless from any damage, liability or cost (including reasonable attorney's fees and costs of defense) arising from such changes.

The personal seal of the registered Architect or Engineer shall be the legal equivalent of his signature whenever & wherever used, and the owner of the seal shall authenticate this sheet and the specification sections pertaining to this sheet. Responsibility shall be disclaimed for all other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural project.

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Revision No.	Description	Date
1	ASI 01	2019-01-14
3	ASI 03	2019-02-12

Project No.	Date	Drawn
1013-004	01-14-2019	SE

Drawing No.

P701

PLUMBING SCHEDULES

PUMP SCHEDULE & ELECTRICAL CONNECTION DATA

MARK	MANUFACTURER & MODEL OR EQUAL	LOCATION	SERVES	TYPE	GPM	HEAD (FT.)	ECM MOTOR		ELECTRICAL CONNECTION DATA			NOTES:
RP-1	BELL & GOSSET - ECO-CIRC XL 20-35	SPRINKLER - 116	DOMESTIC HOT WATER RECIRC.	INLINE	1.8	8	VAR	1/12	115	1	1.3	1-4
<div>NOTES:</div> <div><div>1. PROVIDE ALL PIPING ACCESSORIES AS PER PUMP DETAIL IN THE CONTRACT DRAWINGS.</div><div>2. PROVIDE CONSTANT SPEED PUMP MOTOR. PUMP MOTOR TO HAVE THERMAL OVERLOAD PROTECTION.</div><div>3. PROVIDE A TIMER FOR THE PUMP.</div><div>4. GPM AND HEAD LISTED IN SCHEDULE ARE DESIGN MINIMUM REQUIREMENT VALUES BASED ON SYSTEM CALCULATIONS.</div></div>												

ELECTRIC WATER HEATER SCHEDULE

MARK	MANUFACTURER & MODEL	TYPE	SERVES	TURN ON (GPM)	MAX. RECOVERY		ELECTRICAL DATA		NOTES
					(GPM)	TEMP RISE (DEG.F.)	INPUT (kW)	VOLTS/PH/HZ	
IWH-2	EEMAX MODEL MB004277T	INSTANTANEOUS	COMMUNITY ROOM -119 (SINK)	0.3	0.5	56	4.1	277/1/60	1
<div>NOTES:</div> <div><div>1. PROVIDE WATER HEATERS WITH QUARTER TURN SHUT-OFF VALVES AT INLET AND OUTLET PIPES</div></div>									

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SPECIAL NOTICES

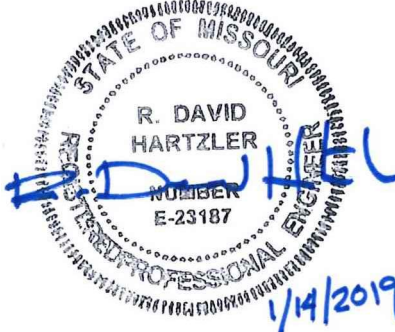
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Missouri State Certificate of Authority # 2002002733

Revision No.	Description	Date
1	ASI 01	2019-01-14

Project No.	Date	Drawn
013-00	08-16-2018	AS
Drawing No.		

P702

PLUMBING SCHEDULES

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ELECTRICAL SYMBOLS					
NOTE:		POWER	LIGHTING	ABBREVIATIONS	GENERAL NOTES
THIS IS A MASTER SYMBOLS LIST. ALL SYMBOLS, ABBREVIATIONS, ETC. MAY NOT NECESSARILY BE USED ON ALL DRAWINGS		NOTE: SUBSCRIPTS ADJACENT TO DEVICES INDICATE THE FOLLOWING: G = GFCI T = TAMPER RESISTANT WP = WEATHER PROOF AC = MOUNT 6" ABOVE COUNTER OR BACKSPLASH U = DEVICE WITH DUAL USB CHARGING PORT 60" = SPECIAL MOUNTING HEIGHT, AS NOTED	NOTE: UPPER CASE LETTER DENOTES LUMINAIRES TYPE. LOWER CASE LETTER ADJACENT TO LUMINAIRE INDICATES SWITCH THAT CONTROLS LUMINAIRES. HATCHING INDICATES EMERGENCY FIXTURE. MOUNTING IS NOTED ON LUMINAIRE SCHEDULE OR FLOOR PLANS.	A AMPS, AIR (COMPRESSED) AC ABOVE COUNTER AFC ABOVE FINISHED CEILING AFEA AREA FOR EVACUATION ASSISTANCE AFF ABOVE FINISHED FLOOR AFG ABOVE FINISHED GRADE AHU AIR HANDLING UNIT AIC AMPERE INTERRUPTING CURRENT AL ALUMINUM ATS AUTOMATIC TRANSFER SWITCH AWG AMERICAN WIRE GAUGE AV AUDIO VISUAL BFF BELOW FINISHED FLOOR BKR BREAKER BOS BOTTOM OF STRUCTURE BTU BRITISH THERMAL UNIT C CONDUIT CATV CABLE TELEVISION SYSTEM CCTV CLOSED CIRCUIT TELEVISION Cd CANDELA CFM CUBIC FEET PER MINUTE CKT CIRCUIT CLG CEILING CM COFFEE MAKER CT CURRENT TRANSFORMER CU COPPER, CONDENSING UNIT DDC DIRECT DIGITAL CONTROL DN DOWN DPST DOUBLE POLE, DOUBLE THROW DPST DOUBLE POLE, SINGLE THROW DW DISHWASHER DX DIRECT EXPANSION (E) EXISTING EPO EMERGENCY POWER OFF ETR EXISTING TO REMAIN EWC ELECTRIC WATER COOLER FBO FURNISHED BY OTHERS FF FINISHED FLOOR FHC FIRE HOSE CABINET FLA FULL LOAD AMPS FLR FLOOR FVNR FULL VOLTAGE, NON REVERSING G GROUNDING BUS BAR GD GARBAGE DISPOSAL GFI GROUND FAULT CIRCUIT INTERRUPTER (PERSONAL PROTECTION ON DEVICE) GFP GROUND FAULT PROTECTED FROM UPSTREAM GFI RECEPTACLE OR CIRCUIT BREAKER GFR GROUND FAULT RELAY GND GROUND HOA HAND OFF AUTOMATIC HPS HIGH PRESSURE SODIUM HSTAT HUMIDISTAT HTG HEATING HTR HEATER ISCA AVAILABLE SHORT-CIRCUIT CURRENT (AMPS) IG ISOLATED GROUND KCMIL 1000 CIRCULAR MILS KV KILOVOLT KVA KILOVOLT AMPS KVAR KILOVOLT AMPS REACTIVE KW KILOWATT KWH KILOWATT HOUR LED LIGHT EMITTING DIODE LF LINEAR FEET LRA LOCKED ROTOR AMPS MATV MASTER ANTENNA TELEVISION SYSTEM MBH 1000 BTU PER HOUR MCA MINIMUM CIRCUIT AMPACITY MCB MAIN CIRCUIT BREAKER MCC MOTOR CONTROL CENTER MD MOTORIZED DAMPER MDP MAIN DISTRIBUTION PANEL MFR MANUFACTURER MG MOTOR GENERATOR MH MANHOLE MSB MAIN SWITCHBOARD MTD MOUNTED MFE MICROFEEDER (N) NEW N/A NOT APPLICABLE NIC NOT IN CONTRACT N/O,N/C NORMALLY OPEN, NORMALLY CLOSED NIGHT LIGHT OC ON CENTER OV OVEN PDU POWER DISTRIBUTION UNIT PH,ø PHASE PIB POST INDICATOR VALVE PJ MOUNTED ON CEILING FOR PROJECTOR PNL PANEL PT POTENTIAL TRANSFORMER QTY QUANTITY (R) RELOCATED RA RETURN AIR RCP REFLECTED CEILING PLAN REF REFRIGERATOR REV REVISION RH RELATIVE HUMIDITY RLA RUNNING LOAD AMPS RPM REVOLUTIONS PER MINUTE SA SUPPLY AIR SD SMOKE DETECTOR SF SQUARE FEET SPDT SINGLE POLE, DOUBLE THROW SPST SINGLE POLE, SINGLE THROW SP STATIC PRESSURE SWBD SWITCHBOARD TGB TELECOMMUNICATIONS GROUNDING BAR TSTAT THERMOSTAT TL TWISTLOCK TV TELEVISION TYP TYPICAL UF UNDERFLOOR UG UNDERGROUND UIS UNDER SLAB UL UNDERWRITERS LABORATORIES, INC. UNO UNLESS NOTED OTHERWISE UPS UNINTERRUPTIBLE POWER SUPPLY UBS UNIVERSAL SERIAL BUS VAC VOLTS ALTERNATING CURRENT, VACUUM VAV VARIABLE AIR VOLUME VENDING MACHINE VM VENDING MACHINE W/ WITH W/O WITHOUT WP WEATHERPROOF WT WATERTIGHT, WEIGHT XFMR TRANSFORMER XP EXPLOSION PROOF	1. DO NOT SCALE DRAWINGS. VERIFY DIMENSIONS ON ARCHITECTURAL DRAWINGS AND IN FIELD PRIOR TO COMMENCEMENT OF WORK. 2. REVIEW ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND OTHER DRAWINGS PRIOR TO BID. 3. WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER TO THE SATISFACTION OF THE ARCHITECT/ENGINEER. 4. WORK, MATERIALS, AND EQUIPMENT SHALL CONFORM TO THE CURRENT ADOPTED EDITIONS OF LOCAL, STATE, AND NATIONAL CODES AND ORDINANCES. 5. OBTAIN PERMITS AND INSPECTIONS REQUIRED. 6. WIRE SHALL BE COPPER, 75 DEGREES C RATED FOR GENERAL USE. WIRING WITHIN 3 INCHES OF DRIVERS SHALL BE COPPER, MINIMUM 90 DEGREES C RATED. SIZES INDICATED ARE FOR INSTALLATION IN A MAXIMUM 36 DEGREES C AMBIENT. CONDUCTOR AMPACITY SHALL BE DE-RATED FOR HIGHER AMBIENT INSTALLATIONS. 7. FINAL CONNECTIONS TO EQUIPMENT SHALL BE IN ACCORDANCE WITH MANUFACTURER'S APPROVED WIRING DIAGRAMS, DETAILS, AND INSTRUCTIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT SUPPLIED. 8. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING EQUIPMENT WHICH IS DAMAGED DUE TO INCORRECT FIELD WIRING PROVIDED UNDER THIS SECTION, OR FACTORY WIRING IN EQUIPMENT PROVIDED UNDER THIS CONTRACT. 9. CONTRACTOR'S FAILURE TO ORDER OR RELEASE ORDER FOR MATERIALS AND/OR EQUIPMENT WILL NOT BE ACCEPTED AS A REASON TO SUBSTITUTE ALTERNATE MATERIALS, EQUIPMENT, OR INSTALLATION METHODS. 10. SYSTEMS SHALL BE COMPLETE, AND READY FOR CONTINUOUS OPERATION. 11. DEVICE BOXES SHALL BE MINIMUM 4" SQUARE 12. PROVIDE NEW UPDATED TYPED PANELBOARD DIRECTORIES FOR PANEL MODIFIED OR INSTALLED AS A PART OF THIS PROJECT. 13. RACEWAY SHALL NOT BE ROUTED Laterally/Horizontally ABOVE ROOF. RACEWAY SHALL PENETRATE ROOF AT LOCATION OF EQUIPMENT SERVED. 14. CONDUITS PENETRATING THROUGH ROOF SHALL HAVE ROOF FLASHING WITH CAULK TYPE COUNTER FLASHING SLEEVE. INSTALLATION SHALL BE WATERTIGHT AND PERFORMED BY OWNER'S ROOFING CONTRACTOR AT ELECTRICAL CONTRACTOR'S EXPENSE. 15. FINAL CONNECTIONS TO MOTORS, TRANSFORMERS, AND OTHER VIBRATING EQUIPMENT SHALL BE WITH LIQUID TIGHT FLEXIBLE METAL CONDUIT AND APPROVED FITTINGS THAT DO NO REDUCE THE USABLE INTERNAL DIAMETER OF THE CONDUIT. DO NOT SECURE CONDUITS, DISCONNECTS, OR DEVICES TO DUCTWORK OR MECHANICAL EQUIPMENT. 16. WHERE PANELS ARE INSTALLED FLUSH WITH WALLS, EMPTY CONDUITS SHALL BE EXTENDED FROM THE PANEL TO AN ACCESSIBLE SPACE ABOVE OR BELOW. A MINIMUM OF ONE 3/4" CONDUIT SHALL BE INSTALLED FOR EVERY THREE SINGLE POLE SPARE CIRCUIT BREAKERS OR SPACES, OR FRACTION THEREOF, BUT NOT LESS THAN TWO CONDUITS. 17. ELECTRICAL SYSTEMS COMPONENTS SHALL BE LISTED OR LABELED BY UL OR OTHER RECOGNIZED TESTING FACILITY. 18. WIRE TERMINATION PROVISIONS FOR PANELBOARDS, CIRCUIT BREAKERS, SAFETY SWITCHES, AND OTHER ELECTRICAL APPARATUS SHALL BE LISTED AS SUITABLE FOR 75 DEGREES C. 19. PROVIDE AN INSULATED EQUIPMENT GROUNDING CONDUCTOR IN EACH CONDUIT OR RACEWAY. 20. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT REQUIRING A NEUTRAL CONDUCTOR. PROVIDE HANDLE TIES FOR EACH MULTIWIRE BRANCH CIRCUIT SERVING EQUIPMENT OR FURNITURE. 21. SYSTEMS SHALL BE TESTED FOR PROPER OPERATION. IF TESTS INDICATE THAT WORK IS DEFECTIVE, CONTRACTOR SHALL MAKE CORRECTIONS NECESSARY AT NO COST TO OWNER. 22. PROVIDE, WITH SHOP DRAWING SUBMITTAL FOR ELECTRICAL GEAR, 1/4" SCALE LAYOUT DRAWINGS OF ROOMS WITH ELECTRICAL EQUIPMENT. LAYOUTS SHALL INDICATE LOCATIONS OF ELECTRICAL EQUIPMENT TO SCALE, AND SHALL BE COORDINATED WITH MECHANICAL EQUIPMENT. 23. PROTECT STRUCTURE AND OWNER EQUIPMENT FROM DAMAGE. IMMEDIATELY REPLACE OR REPAIR, TO ORIGINAL CONDITION, DAMAGE CAUSED BY THE CONTRACTOR WHETHER EQUIPMENT APPEARS TO BE CURRENTLY IN USE OR NOT, UNLESS WRITTEN AUTHORIZATION FROM THE OWNER INDICATES OTHERWISE. PREPARE LISTING OF ALL EXISTING DAMAGED ITEMS AND SUBMIT TO OWNER PRIOR TO BEGINNING WORK. 24. INSTALL CONDUIT CONCEALED IN FINISHED AREAS UNLESS OTHERWISE NOTED. PAINT EXPOSED CONDUIT TO MATCH EXISTING FINISHES WITHIN THE SURROUNDING AREA. 25. DO NOT ROUTE CONDUIT WITHIN STRUCTURAL OR TOPPING SLABS OF FLOORS UNLESS SPECIFICALLY NOTED OTHERWISE AND WRITTEN APPROVAL IS OBTAINED FROM THE STRUCTURAL ENGINEER. 26. SEE DIVISION 22 AND 23 DRAWINGS AND SPECIFICATIONS FOR LOCATION AND REQUIREMENTS OF MECHANICAL AND PLUMBING EQUIPMENT. PROVIDE SERVICE TO AND CONNECT EQUIPMENT AS REQUIRED. 27. FIRE SEAL ALL FIRE RATED WALL, CEILING, AND FLOOR PENETRATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATED WALL LOCATIONS. 28. EXISTING INFORMATION SHOWN ON THE DRAWINGS HAS BEEN TAKEN FROM OWNER FURNISHED DRAWINGS AND /OR LIMITED FIELD OBSERVATIONS. M.E. GROUP IS NOT RESPONSIBLE FOR THE ACCURACY OF ANY INFORMATION OR THE ADEQUACY, SAFETY, AND CONFORMANCE TO CURRENT PREVAILING CODES OF ANY WORK SHOWN AS EXISTING ON THESE DRAWINGS. 29. FIELD LOCATE EXISTING UNDERGROUND PUBLIC AND OWNER UTILITIES OF ALL TRADES AND BUILDING GROUNDING / LIGHTNING PROTECTION SYSTEMS PRIOR TO ANY EXCAVATION. REPLACE OR REPAIR DAMAGED UTILITIES AND GROUNDING / LIGHTNING PROTECTION SYSTEMS TO ORIGINAL CONDITION. 30. MAKE ALL FINAL ELECTRICAL CONNECTIONS TO EQUIPMENT REQUIRING ELECTRICAL CONNECTION. THIS SHALL INCLUDE BUT NOT BE LIMITED TO ALL MECHANICAL AND OTHER EQUIPMENT INCLUDED IN THIS PROJECT. 31. PROVIDE FUSES SIZED PER EQUIPMENT MANUFACTURER'S REQUIREMENTS. 32. DISCONNECT SWITCH LOCATIONS ARE SHOWN DIAGRAMMATICALLY AND SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION TO SUIT EQUIPMENT AND SPACE. DISCONNECT SWITCHES SHALL BE WITHIN SIGHT OF THE EQUIPMENT THEY SERVE AND MOUNTED AT 6'-3" MAXIMUM, TO TOP OF CABINET. MAINTAIN NEC WORK SPACE AND REQUIREMENTS. 33. RECEPTACLES INDICATED TO BE MOUNTED ABOVE COUNTER ARE TO BE MOUNTED HORIZONTALLY 6" ABOVE COUNTER. COORDINATE MOUNTING HEIGHTS WITH ARCHITECT WHERE ABOVE COUNTER RECEPTACLES ARE LOCATED BELOW WINDOWS. 34. COORDINATE AND VERIFY EXACT MOUNTING LOCATIONS OF WALL AND FLOOR DEVICES WITH ARCHITECTURAL ELEVATIONS, AND ANY FURNITURE OR SPECIALTY EQUIPMENT SUPPLIER DRAWINGS PRIOR TO ROUGH-IN. 35. REFER TO SPECIAL SYSTEMS DRAWINGS AND SPECIFICATIONS FOR LOW-VOLTAGE SYSTEMS INFRASTRUCTURE REQUIREMENTS. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONDUITS AND BACKBOXES REQUIRED FOR LOW-VOLTAGE SYSTEMS. 36. PROVIDE TAMPER RESISTANT RECEPTACLES IN ALL AREAS THAT CAN BE ACCESSED BY CHILDREN THAT ARE 7 YEARS OLD OR YOUNGER. 37. ALL TRANSFORMERS, DISTRIBUTIONS BOARDS, DISTRIBUTION PANELS AND OTHER FLOOR MOUNTED ELECTRICAL EQUIPMENT SHALL BE ANCHORED TO 4" THICK CONCRETE HOUSEKEEPING PAD. THE PAD SHALL EXTEND MIN 6" IN ALL SIDES. REINFORCE HOUSEKEEPING PAD TO THE SLAB WITH DOWELS. 38. FIRE ALARM SYSTEM SHALL BE DESIGNED AND SUBMITTED AS A DELEGATED DESIGN SUBMITTAL. PROVIDE FIRE ALARM SYSTEM DEVICES, CONDUIT, WIRES, AND CABLE AS DIRECTED BY EQUIPMENT MANUFACTURER. MATERIALS, EQUIPMENT, AND WORKMANSHIP SHALL MEET ADOPTED CODES. THE SYSTEM SHALL BE COMPLETE AND OPERATIONAL IN EVERY RESPECT. SUBMIT SHOP DRAWINGS ACCORDING TO SPECIFICATIONS. SHOP DRAWINGS SHALL INCLUDE A SINGLE LINE DIAGRAM THAT INDICATES DEVICES, CONDUIT, WIRE, CABLE SIZES AND EQUIPMENT TO BE USED. SHOP DRAWINGS SHALL BE STAMPED AND SIGNED BY A REGISTERED ENGINEER PROVIDED BY THE FIRE ALARM VENDOR. SYSTEM CALIBRATION AND TESTING SHALL BE BY FACTORY CERTIFIED TECHNICIAN. 39. COORDINATE THE LOCATION AND MOUNTING HEIGHT OF LUMINAIRES AND DEVICES WITH ARCHITECTURAL PLANS. WHERE LUMINAIRES OR DEVICES ARE NOT SPECIFICALLY INDICATED, COORDINATE LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO ROUGH-IN. 40. CONNECT EMERGENCY LIGHTING AND EXIT SIGNS AHEAD OF LOCAL SWITCHING. LOSS OF UTILITY POWER SHALL ENERGIZE ALL EGRESS LIGHTING. THE DESIGN SHALL MEET ALL UL STANDARDS FOR LIFE SAFETY REQUIREMENTS. 41. COORDINATE PENDANT HUNG INDUSTRIAL STRIP(S) IN UNFINISHED AREAS WITH MECHANICAL PIPING, DUCTWORK, EQUIPMENT, ETC. TO AVOID CONFLICTS. MAKE MINOR ADJUSTMENTS TO LUMINAIRE LOCATIONS AS REQUIRED. 42. RECESSED LIGHT FIXTURES INSTALLED IN GYP. BOARD OR PLASTER CEILINGS SHALL HAVE PLASTER FRAMES INSTALLED PRIOR TO CEILING MATERIAL. 43. FIXTURES RECESSED IN T-BAR CEILING SHALL BE SUPPORTED INDEPENDENTLY OF CEILING SYSTEM WITH FOUR #12 HANGER WIRES UP TO STRUCTURE. SECURE HANGER WIRES TO CORNERS OF FIXTURE. CLIP FIXTURE TO GRID ON TWO SIDES WITH FACTORY-FURNISHED CLIPS. FINAL ELECTRICAL CONNECTION TO FIXTURE SHALL BE MADE WITH A FLEXIBLE UL APPROVED ASSEMBLY. 44. VERIFY TRIM COMPATABILITY WITH CEILING TYPE INDICATED IN ARCHITECTURAL REFLECTED CEILING PLAN PRIOR TO ORDERING ANY LUMINAIRES. 45. <u>PACKAGING OF LUMINAIRES AND LIGHTING CONTROL IS PROHIBITED. PROVIDE LINE ITEM PRICING FOR ALL LUMINAIRES AND LIGHTING CONTROL DEVICES.</u>
ONE LINE AND RISER		PANELBOARD, OR ELECTRICAL DISTRIBUTION PANEL, SURFACE MOUNTED PANELBOARD, OR ELECTRICAL DISTRIBUTION PANEL, RECESS MOUNTED 20 AMP, 125V, 2P, 3W SIMPLEX RECEPTACLE 20 AMP, 125V, NEMA 5-20R DUPLEX RECEPTACLE 20 AMP, 125V, NEMA 5-20R QUAD RECEPTACLE 20 AMP, 125V, NEMA 5-20R DUPLEX FLOOR RECEPTACLE, 3/4" CONDUIT RUN CONCEALED IN FLOOR 20 AMP, 125V, NEMA 5-20R DUPLEX CEILING RECEPTACLE, 3/4" CONDUIT 20 AMP, 125V, NEMA 5-20R QUAD FLOOR RECEPTACLE, 3/4" CONDUIT RUN CONCEALED IN FLOOR 20 AMP, 125V, NEMA 5-20R QUAD CEILING RECEPTACLE, 3/4" CONDUIT JUNCTION BOX, WALL MOUNTED JUNCTION BOX, FLOOR MOUNTED JUNCTION BOX, CEILING MOUNTED FLOOR BOX, TYPE AND CONFIGURATION AS NOTED ON PLAN SPECIAL RECEPTACLE, FLOOR MOUNTED, CONFIGURATION AS NOTED ON PLAN SPECIAL RECEPTACLE, WALL MOUNTED, CONFIGURATION AS NOTED ON PLAN MOTOR: HORSEPOWER AS INDICATED ON PLANS, SCHEDULES, OR DIAGRAMS MULTI-OUTLET RACEWAY, REFER TO DRAWING FOR LENGTHS SAFETY SWITCH, NON-FUSED, 240V, U.N.O. FUSED DISCONNECT COMBINATION STARTER/DISCONNECT (SIZE AS INDICATED) T-XX TRANSFORMER, TYPE AND RATING AS SHOWN CONDUIT CONNECTION GROUND CONNECTION WITH TEST WELL GROUND ROD SHORT CIRCUIT TAG DESIGNATION FEEDER TAG DESIGNATION	RECESSED LUMINAIRE. HALF-SHADING INDICATES LUMINAIRE ON EMERGENCY POWER. WALL MOUNTED LUMINAIRE. HALF-SHADING INDICATES LUMINAIRE ON EMERGENCY POWER. STRIP TYPE LUMINAIRE, LENGTHS AS NOTED ON LUMINAIRE SCHEDULE. SHADING INDICATES LUMINAIRE ON EMERGENCY POWER. RECESSED MOUNTED DOWNLIGHT. HALF-SHADING INDICATES LUMINAIRE ON EMERGENCY POWER. WALL MOUNTED LUMINAIRE. HALF-SHADING INDICATES LUMINAIRE ON EMERGENCY POWER. CYLINDER PENDANT LUMINAIRE. HALF-SHADING INDICATES LUMINAIRE ON EMERGENCY POWER. LINEAR PENDANT LUMINAIRE. HALF-SHADING INDICATES LUMINAIRE ON EMERGENCY POWER. CEILING MOUNTED EXIT SIGN. PROVIDE DIRECTIONAL CHEVRONS AS REQUIRED WALL MOUNTED EXIT SIGN. PROVIDE DIRECTIONAL CHEVRONS AS REQUIRED SINGLE POLE MOUNTED, EXTERIOR LUMINAIRE DOUBLE POLE MOUNTED, EXTERIOR LUMINAIRE QUAD POLE MOUNTED, EXTERIOR LUMINAIRE BOLLARD LUMINAIRE SINGLE POLE LOW VOLTAGE SWITCH; 3= THREE WAY SWITCH, 4= FOUR WAY SWITCH, K= KEY SWITCH, D= DIMMER SWITCH, TO= MOTOR THERMAL OVERLOAD SWITCH, T= TIMER, HOA=HAND-OFF AUTOMATIC, P= PILOT LIGHT, OS= OCCUPANCY SENSOR, VS= VACANCY SENSOR, WP= WEATHER PROOF. (SWITCH LOWER CASE LETTER INDICATES DEVICE CONTROL. A BUTTON SHALL BE PROVIDED FOR EACH LOWER CASE LETTER.) CEILING MOUNTED SENSOR; OS= OCCUPANCY, DL= DAYLIGHT, VS= VACANCY, PC= PHOTOCCELL	TECHNOLOGY # WALL MOUNTED DATA OUTLET. 4-11/16" SQUARE x 2-1/8" DEEP BACK BOX WITH SINGLE GANG MUD RING. INSTALL 1" CONDUIT FROM BACK BOX TO ACCESSIBLE LOCATION AFC FOR 1-4 CABLES. 1-1/4" FOR 5-8 CABLES. 1-1/2" GREATER THAN 8 CABLES. INCLUDE 10' SERVICE LOOP FOR ALL DROPS. # INDICATES NUMBER OF CONNECTION PORTS IN FACEPLATE. IF # IS NOT SHOWN, TWO (2) CONNECTION PORTS SHALL BE PROVIDED. TV DATA OUTLET FOR WALL MOUNTED VIDEO DISPLAY. MOUNTING HEIGHT AS NOTED ON DRAWINGS. 4-11/16" SQUARE x 2-1/8" DEEP BACK BOX WITH SINGLE GANG MUD RING. INSTALL 1" CONDUIT FROM BACK BOX TO ACCESSIBLE LOCATION AFC, WITH 10' SERVICE LOOP. # CEILING MOUNTED DATA OUTLET. # INDICATES NUMBER OF CONNECTION PORTS IN FACEPLATE. IF # IS NOT SHOWN, TWO (2) CONNECTION PORTS SHALL BE PROVIDED. 4-11/16" SQUARE x 2-1/8" DEEP BACK BOX INSTALLED IN PLENUM. PROVIDE 10' SERVICE LOOP AT CEILING. WAP CEILING MOUNTED DATA OUTLET WITH WIRELESS ACCESS POINT (WAP) INSTALLED. 4-11/16" SQUARE x 2-1/8" DEEP BACK BOX INSTALLED IN PLENUM, WITH (1) RJ45 OUTLET, UNO. PROVIDE 10' SERVICE LOOP AT CEILING. WAP INSTALLED FLUSH WITH CEILING, ON OCCUPIED SIDE. PROJ CEILING MOUNTED DATA OUTLET FOR CONNECTION TO CEILING MOUNTED PROJECTOR. 4-11/16" SQUARE x 2-1/8" DEEP BACK BOX INSTALLED IN PLENUM, WITH (1) RJ45 OUTLET, UNO. PROVIDE 10' SERVICE LOOP AT CEILING. # FLOOR MOUNTED DATA OUTLET. # INDICATES NUMBER OF CONNECTION PORTS IN FACEPLATE. IF # IS NOT SHOWN, TWO (2) CONNECTION PORTS SHALL BE PROVIDED. INSTALL 1" CONDUIT FROM BOX CONCEALED IN FLOOR TO WALL, AND UP TO 3" INTO ACCESSIBLE LOCATION AFC, UNO. AV CONTROL PANEL. (1) GANG, FLUSH MOUNTED, 2-1/2" DEEP BACK BOX AV HDMI INPUT. (1) GANG, FLUSH MOUNTED, 2-1/2" DEEP BACK BOX ROOM SCHEDULER CARD READER. PROVIDE BACK BOX FOR ROUGH-IN AND 1" CONDUIT BACK TO POWERED JUNCTION BOX. ADA ASSIST PUSH PAD, 42" AFF, UNO. PROVIDE BACK BOX FOR ROUGH-IN AND 1/2" CONDUIT BACK TO POWERED JUNCTION BOX. WALL MOUNTED, FIXED CAMERA. PROVIDE 1" CONDUIT STUB TO ACCESSIBLE SPACE. PROVIDE BISCUIT JACK DATA DROP. MOUNT AT 10'-0" AFF, UNO. CEILING MOUNTED DOME CAMERA. PROVIDE BISCUIT JACK DATA DROP IN PLENUM. COORDINATE MOUNTING WITH CEILING TYPE.	
CONDUIT DESIGNATIONS		XX/XXX PANEL NAME / CIRCUIT NUMBER - BRANCH CIRCUITS HOMERUN USE NUMBER 12 AWG WIRE, UNLESS OTHERWISE NOTED. ALL CIRCUITS SHALL CONTAIN A GROUND AND NEUTRAL CONDUCTOR, UNLESS NOTED OTHERWISE. CONTRACTOR SHALL PROVIDE MULTI-WIRE CIRCUIT HANDLE TIES AS FINAL FIELD INSTALLED WIRING REQUIRES. CONDUIT AND WIRE CONCEALED, 3/4" UNLESS OTHERWISE NOTED. CONDUIT USED FOR SWITCH LEGS, AND CONDUIT USED FOR CONTROL WIRING CONDUIT AND WIRE EMBEDDED IN CONCRETE OR BELOW GRADE CONDUIT TURNING DOWN CONDUIT TURNING UP CONDUIT CAPPED FOR FUTURE USE			
VOLTAGE DROP REQUIREMENTS		THE E.C. SHALL UTILIZE THE CHART BELOW FOR WIRING BRANCH CIRCUIT DEVICES AND MAINTAINING A MAXIMUM OF 3 PERCENT VOLTAGE DROP IN ACCORDANCE WITH NEC GUIDELINES. 20 AMP 120V BRANCH CIRCUIT RUN: 0' - 100' USE #12AWG COPPER 101' - 150' USE #10AWG COPPER 151' - 225' USE #8AWG COPPER TO FIRST J-BOX, #10AWG THEREAFTER			
STD. MOUNTING HEIGHTS U.N.O.		ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER MOUNTING HEIGHTS INDICATED ON ELECTRICAL DRAWINGS. RECEPTACLES (CENTERLINE) 18" RECEPTACLES IN EQUIP. RMS. 48" RECEPTACLES (EXTERIOR) 24" RECEPTACLES (GARAGES) 24" ALARMS, SWITCHES AND CONTROLS (CENTERLINE) 48" DATA OUTLETS (CENTERLINE) 18" TELEPHONE (PUBLIC) 1@48" AND 1@36" TELEPHONE OUTLETS (CENTERLINE) 18" TELEPHONE TERMINAL BOARD (BTM.) 6" SAFETY SWITCHES 48" STARTERS 48" PANELS (TOP) 72" CLOCK OUTLETS (CENTERLINE) 90" FIRE ALARM PULL STATIONS (HANDLE) 44" STROBES (CENTERLINE) 80" FIRE ALARM BELLS (EXTERIOR) 12'-0" CONTROLS (FIRE ALARM CONTROL PANEL) 48" ANNUNCIATION PANELS 48" INTERCOM (AFEA ONLY) 36" REMOTE INDICATING LIGHT (EQUIP. RMS.) 48" REMOTE INDICATING LIGHT (FIN. AREAS) 80" EXIT SIGNS (WALL MOUNTED BTM.) 18" TELEVISION OUTLETS 48" INTERCOMS 48" PHOTOCELLS 12'-0"			
FIRE ALARM		FIRE ALARM CONTROL PANEL FIRE ALARM REMOTE ANNUNCIATOR SMOKE DETECTOR, ADDRESSABLE PHOTO ELECTRIC HEAT DETECTOR DUCT SMOKE DETECTOR, ADDRESSABLE PHOTO ELECTRIC FIRE ADA ALARM BELL FIRE ADA ALARM STROBE MOUNTED AT 80" AFF OR 6" BELOW CEILING WHICHEVER IS LOWER. STROBE CANDELA RATING (#Cd) AS NOTED. FIRE ALARM HORN AND ADA STROBE LIGHT MOUNTED AT 80" AFF OR 6" BELOW CEILING, WHICHEVER IS LOWER. STROBE CANDELAS (#Cd) AS NOTED. SPEAKERS TAPPED AT 1/2 WATT, UNO. FIRE ADA STROBE CEILING MOUNTED. STROBE CANDELA RATING (#Cd) AS NOTED. FIRE ALARM HORN AND ADA STROBE LIGHT CEILING MOUNTED. CANDELA RATING (#Cd) AS NOTED. SPEAKERS TAPPED AT 1/2 WATT, UNO. FIRE ALARM HORN CEILING MOUNTED. SPEAKERS TAPPED AT 1/2 WATT, UNO. FIRE ALARM MANUAL PULL STATION, ADDRESSABLE DOUBLE ACTION MAGNETIC DOOR HOLDER FIRE ALARM FLOW SWITCH FIRE ALARM TAMPER SWITCH			
MISCELLANEOUS		KEY NOTE DESIGNATION REVISION NUMBER DESIGNATION NEW TO EXISTING CONNECTION EXISTING LINEWORK DEMOLITION LINEWORK NEW LINEWORK			

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Revision No.	Description	Date
1	ASI 01	2019-01-14

Project No.	Date	Drawn
1013-004	08-16-2018	AE

E001

ELECTRICAL GENERAL
NOTES AND LEGEND

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Professional Engineer
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B-23167
2/12/19

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M.E. GROUP Missouri State Certificate of Authority # 200202733		
Revision No.	Description	Date
1	ASI 01	2019-01-14
3	ASI 03	2019-02-12

Project No.	Date	Drawn
1013-004	01-14-2019	AE

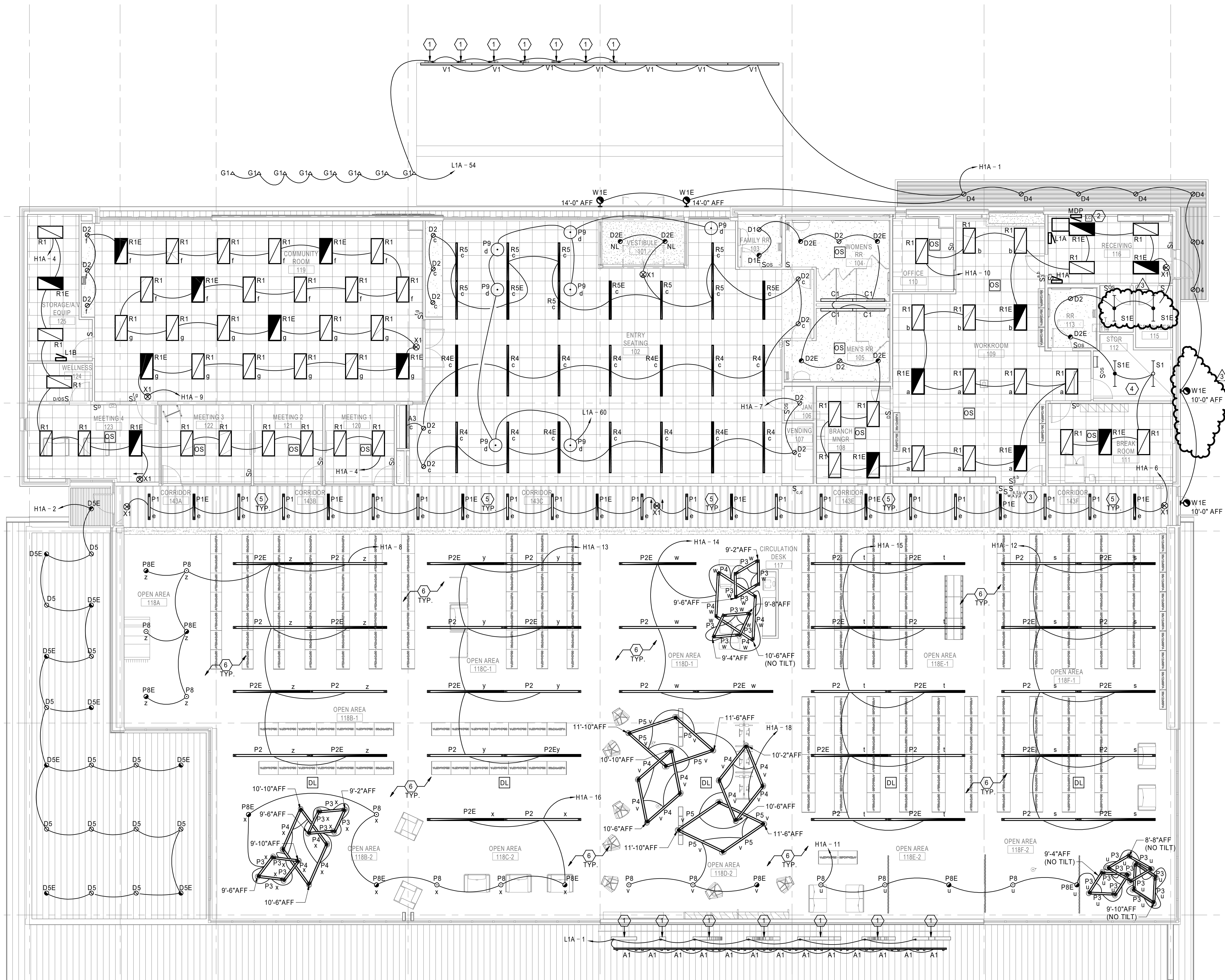
Drawing No.
E101
LIGHTING PLAN

GENERAL NOTES (THIS SHEET)

- SEE SHEET E001 FOR LEGEND AND ADDITIONAL GENERAL NOTES.
- COORDINATE WITH ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR LOCATIONS AND MOUNTING HEIGHTS OF ALL LUMINAIRES. ARCHITECTURAL DRAWINGS AND ELEVATIONS SHALL TAKE PRECEDENCE WHERE ELECTRICAL DRAWINGS VARY FROM ARCHITECTURAL.
- COORDINATE FINAL LOCATIONS WITH ALL EQUIPMENT, DUCTWORK, PIPING, STRUCTURE, AND ALL OTHER TRADES. LUMINAIRE SHALL NOT BE IMPEDED BY ANY OF THE ABOVE.
- CONNECT EACH EXIT LIGHT AND EMERGENCY LIGHT FIXTURE UNIT TO UNSWITCHED "HOT" LEG OF THE CIRCUIT SERVING THAT FIXTURE.
- CONNECT OCCUPANCY SENSORS AHEAD OF LOCAL LIGHTING CONTROLS.
- COORDINATE EXACT LOCATION OF SWITCHES WITH ARCHITECT AND OTHER TRADES PRIOR TO ROUGH-IN.
- PROVIDE LOW VOLTAGE SENSORS WITH ONE SET OF AUXILIARY CONTACTS FOR HVAC CONTROLS.
- WHERE MULTIPLE VACANCY/OCCUPANCY SENSORS ARE LOCATED IN THE SAME ROOM OR SPACE, CONNECT SO EACH SENSOR CONTROLS ALL LIGHTING WITHIN THAT ROOM OR SPACE.
- DO NOT LOCATE VACANCY/OCCUPANCY SENSORS WITHIN 3 FEET OF A HVAC SUPPLY DEVICE.
- ALL SENSORS SHOWN SHALL BE DUAL TECHNOLOGY TYPE.
- WHERE RECESSED FIXTURES ARE USED IN GRID CEILINGS, COORDINATE LOCATIONS OF MAIN T-BARS. LOCATION OF LIGHT FIXTURES SHALL TAKE PRECEDENCE OVER MAIN T-BARS.

KEY NOTES (THIS SHEET)

- REFER TO ARCHITECTURAL ELEVATIONS SHEET A200 FOR BUILDING SIGNAGE "LIBRARY" LETTERS. WITHIN EACH LETTER CAVITY, INSTALL PHILIPS COLOR KINETICS eV Flex Micro, 3000K, TRANSLUCENT DOME LENS, 4" O.C. NODES, WITH WHITE HOUSING. PART NUMBER #500-000011-10. PRIOR TO PURCHASE, PROVIDE MANUFACTURER SITE SPECIFIC SHOP DRAWINGS FOR LIT SIGNAGE. PROVIDE ALL MOUNTS, POWER SUPPLIES, CABLES, ACCESSORIES, CONTROLS, AND OTHER COMPONENTS FOR A COMPLETE AND OPERATIONAL SYSTEM. COMPLETE SYSTEM SHALL MAINTAIN OUTDOOR/WET LOCATION RATING.
- LIGHTING CONTROL PANEL "LC" SEE SHEET E701 FOR SCHEDULE AND ADDITIONAL INFORMATION. CONNECT WITH ROOF MOUNTED PHOTOCELL. PHOTOCELL SHALL BE POSITIONED ON ROOF IN AN AREA WHERE NO SHADOWS ARE CAST BY EITHER STRUCTURE OR EQUIPMENT.
- KEYPADS FOR LIGHTING CONTROL OF LIBRARY OPEN AREA LIGHT FIXTURES. CONNECT VIA LIGHTING CONTROLLER. LOCATED IN RECEIVING 116. SEE SHEET E701 FOR LIGHTING CONTROL SCHEDULE. CHAIN HANG BOTTOM OF FIXTURE AT 9'-0" AFF IN THIS SPACE. COORDINATE FINAL LOCATIONS WITH EQUIPMENT, DUCTWORK, PIPING, STRUCTURE, AND ALL TRADES.
- SUSPEND BOTTOM OF TYPE "P1" FIXTURES FLUSH WITH THE BOTTOM ELEVATION OF THE ARCHITECTURAL BAFFLE CEILING IN THIS CORRIDOR. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR BAFFLE CEILING HEIGHT. TYPE "P1" FIXTURES SHALL BE CENTERED BETWEEN BAFFLES AS SHOWN ON PLANS. COORDINATE MOUNTING WITH EQUIPMENT, DUCTWORK, PIPING, STRUCTURE, AND ALL TRADES. USE AIRCRAFT CABLE FOR SUSPENSION.
- SUSPEND BOTTOM OF TYPE "P2" & "P8" FIXTURES AT 15'-0" AFF IN THIS SPACE. UNO. COORDINATE FINAL LOCATIONS WITH EQUIPMENT, DUCTWORK, PIPING, STRUCTURE, AND ALL TRADES. TRAPEZE SUPPORT AROUND DUCTWORK. USE AIRCRAFT CABLE FOR SUSPENSION.



E1 LIGHTING PLAN
1/8" = 1'-0"



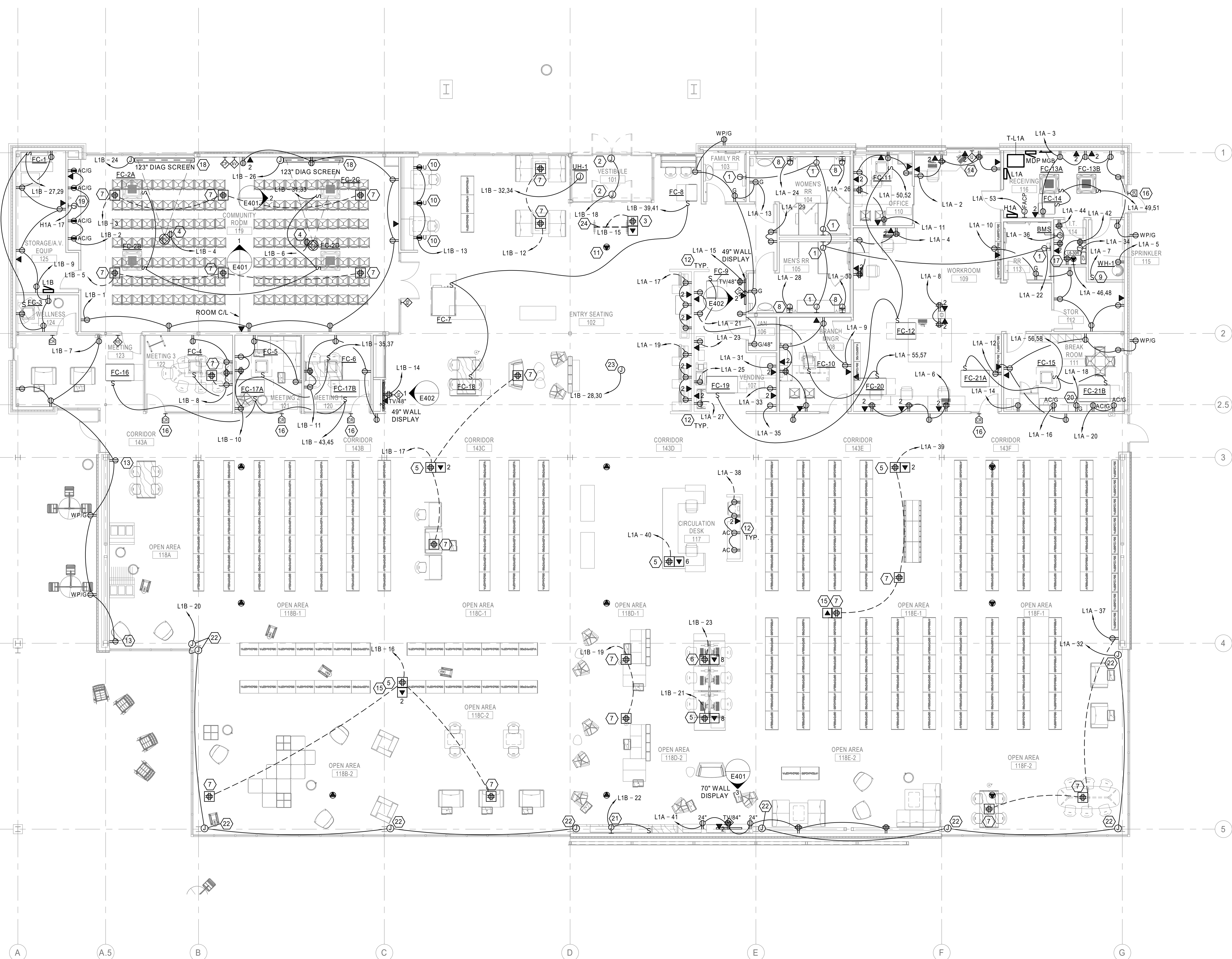
0 4' 8' 16'

GENERAL NOTES (THIS SHEET)

1. REFER TO E001 SHEET FOR ELECTRICAL LEGEND AND ADDITIONAL GENERAL NOTES.
2. REFER TO MEP101 SHEET FOR ELECTRICAL REQUIREMENTS ON ROOF PLAN.
3. REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT DEVICE LOCATIONS. ALL DISCREPANCIES AND DEVICES NOT SHOWN ON ARCHITECTURAL SHALL BE REVIEWED BY ARCHITECT PRIOR TO INSTALL.

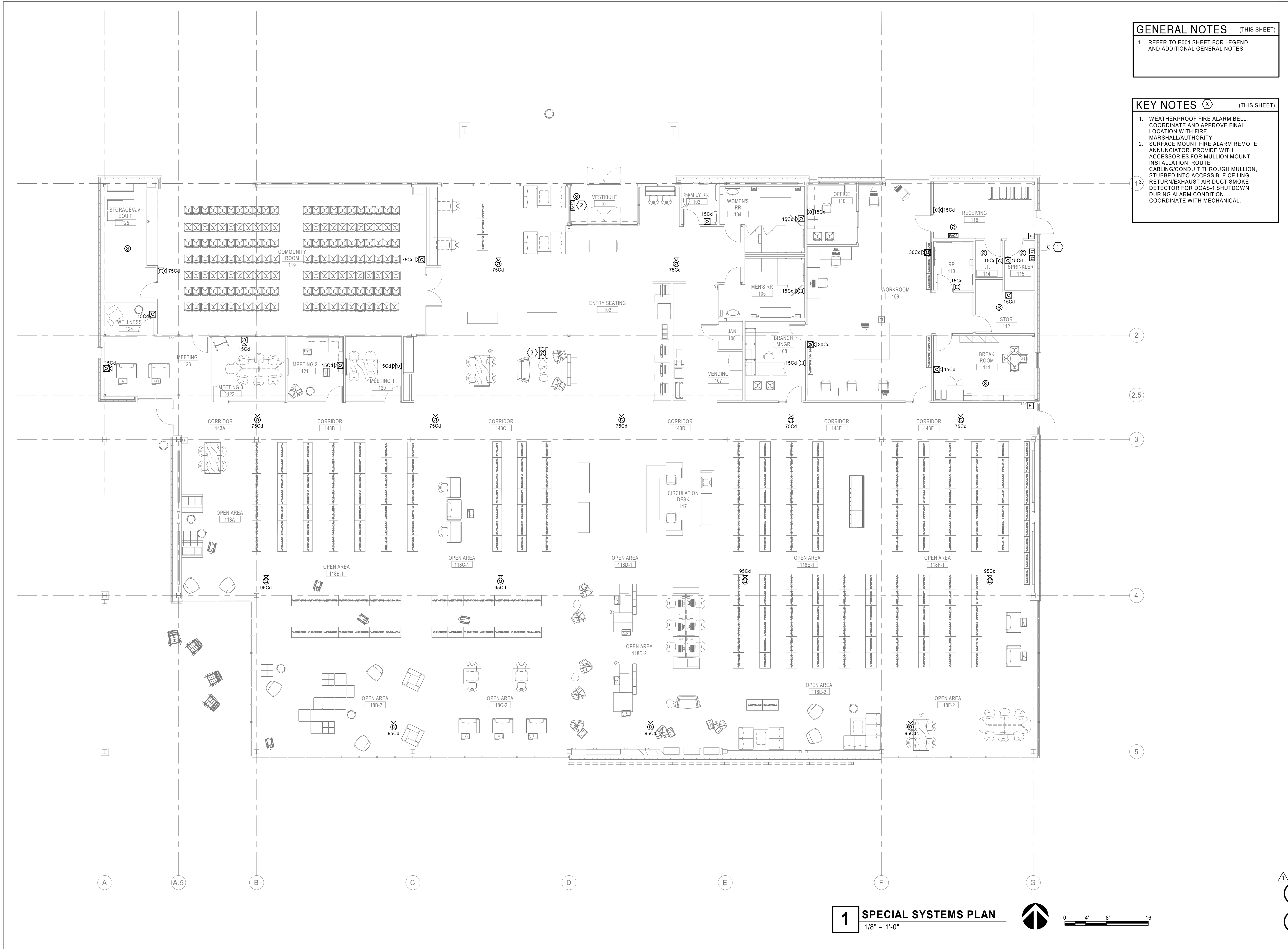
KEY NOTES (THIS SHEET)

1. J-BOX FOR HARDWIRED POWER CONNECTION TO AUTOMATIC FLUSH VALVES AND FAUCETS. CONNECT PER MANUFACTURERS' INSTRUCTIONS.
2. ABOVE CEILING J-BOX FOR POWER CONNECTION TO AUTOMATIC DOORS. CONNECT PER MANUFACTURERS' INSTRUCTIONS.
3. FLOOR J-BOX FOR POWER AND DATA CONNECTIONS TO RFID GATE. CONNECT PER MANUFACTURERS' INSTRUCTIONS. FLOOR BOX SHALL CONTAIN ONE (1) DUPLEX RECEPTACLE AND ONE (1) GANG RESERVED FOR DATA. INSTALL SEPARATE CONDUITS FOR POWER AND DATA. BASIS OF DESIGN IS WIREMOLD 'EFB455-OG' FOUR-GANG FLOOR BOX. VERIFY COVER FINISH WITH ARCHITECT.
4. CEILING MOUNTED DUPLEX RECEPTACLE FOR POWER TO CEILING MOUNTED PROJECTOR.
5. TWO (2) DUPLEX RECEPTACLES AND DATA FACEPLATE IN WIREMOLD 880M3 THREE-GANG FLOOR BOX. WITH THREE-GANG BRUSHED ALUMINUM CARPET FLANGE (837C) AND BRUSHED ALUMINUM DUPLEX COVER PLATES (828R) AND TYPE 106 COMMUNICATION ADAPTER. PROVIDE NUMBER OF DATA DROPS IN DATA FACEPLATE AS SHOWN.
6. FOUR (4) DUPLEX RECEPTACLES AND DATA FACEPLATE IN WIREMOLD EFB6S-OG SIX-GANG FLOOR BOX. WITH BRUSHED ALUMINUM FINISH SOLID COVER PLATE. PROVIDE NUMBER OF DATA DROPS IN DATA FACEPLATE AS SHOWN.
7. TWO (2) DUPLEX RECEPTACLES IN WIREMOLD 880M2 TWO-GANG FLOOR BOX. WITH TWO-GANG BRUSHED ALUMINUM CARPET FLANGE (837C) AND BRUSHED ALUMINUM DUPLEX COVER PLATES (828R).
8. J-BOX FOR POWER TO HAND DRYERS. CONNECT PER MANUFACTURER'S INSTRUCTIONS. DISCONNECTING MEANS SHALL BE LOCKABLE TYPE CIRCUIT BREAKER.
9. TOGGLE SWITCH FOR RECIRCULATION PUMP RP-1. REFERENCE PLUMBING DRAWINGS FOR LOCATION. CONNECT POWER PER MANUFACTURER'S INSTRUCTIONS. SEE SHEET E601. MECHANICAL EQUIPMENT CONNECTION SCHEDULE. FOR FEEDER INFORMATION.
10. INSTALL DUPLEX RECEPTACLE HORIZONTALLY, 6" AFF. IN FRONT FACE OF BUILT-IN BOOTH. REFERENCE ARCHITECTURAL DETAILS.
11. CEILING MOUNTED DATA OUTLET FOR CONNECTION TO PERSON-COUNTER DEVICE.
12. FOR WALL DEVICES AND BOXES LOCATED IN PARTIAL-HEIGHT PARTITION, TURN UP CONDUIT AND CABLE INTO THE PARTITION FROM BELOW, AND THEN ROUTE HORIZONTALLY BETWEEN BOXES WITHIN THE PARTITION AS REQUIRED.
13. WALL COVER PLATE PAINTED TO MATCH ADJACENT WALL FINISH. FIELD COORDINATE FINISH COLOR WITH ARCHITECT PRIOR TO FINAL INSTALLATION.
14. PROVIDE 4 SQUARE JUNCTION BOX ABOVE COUNTER FOR INTERCOM DEVICE CONNECTION.
15. DATA AND POWER FOR TOUCH SCREEN SEARCH STATION.
16. MULLION MOUNT TYPE CARD READER. PROVIDE GROMMET AND ROUTE CABLE THROUGH FRAME, STUB INTO ACCESSIBLE CEILING.
17. PROVIDE TWO 4" CONDUITS STUBBED 3" AFF IN BACK CORNER OF IT. ROOM TO PROPERTY LINE HANDHOLE FOR SERVICE PROVIDER CONNECTIONS.
18. EACH PROJECTOR AND MOTORIZED SCREEN SETUP WILL BE INDEPENDENTLY CONTROLLED.
19. J-BOX FOR POWER TO UNDER-COUNTER WATER HEATER, IWH-1. DISCONNECTING MEANS SHALL BE LOCKABLE TYPE CIRCUIT BREAKER. REFERENCE PLUMBING DRAWINGS FOR LOCATION. CONNECT POWER PER MANUFACTURER'S INSTRUCTIONS. SEE SHEET E601. MECHANICAL EQUIPMENT CONNECTION SCHEDULE. FOR FEEDER INFORMATION.
20. LOCATE RECEPTACLE UNDER-COUNTER, AND SWITCH ABOVE-COUNTER FOR GARBAGE DISPOSAL.
21. J-BOX FOR POWER TO ELECTRIC FIRE PLACE. REFER TO ARCHITECT DRAWINGS FOR FIRE PLACE SPECIFICATION. PROVIDE LOCAL TOGGLE SWITCH FOR DISCONNECT MEANS. PER NEC ARTICLE 424.19.
22. J-BOX FOR POWER SUPPLY TO MOTORIZED WINDOW SHADES. COORDINATE FINAL MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS. MAKE ALL CONNECTIONS TO EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS. PROVIDE AND INSTALL VENDOR SUPPLIED CONTROLS AND CONTROL ACCESSORIES. CONNECT TO CONTROLLER IN ELECTRICAL ROOM.
23. J-BOX MOUNTED TO STRUCTURE ABOVE ACCESSIBLE CEILING FOR BRANCH SELECTOR UNIT POWER. FIELD COORDINATE FINAL J-BOX LOCATION WITH MECHANICAL EQUIPMENT VENDOR. CONNECT AS REQUIRED BY MANUFACTURER'S INSTRUCTIONS. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
24. IN-SLAB CONDUIT FOR CABLEING BETWEEN RFID CONDUITS. PROVIDE SITE-SPECIFIC SHOP DRAWINGS FOR COMPLETE ASSEMBLY DURING SUBMITTAL PHASE.



A1 POWER & TECHNOLOGY PLAN
1/8" = 1'-0"

0 4' 8' 16'



GENERAL NOTES (THIS SHEET)

1. REFER TO E001 SHEET FOR LEGEND AND ADDITIONAL GENERAL NOTES.

KEY NOTES (THIS SHEET)

1. WEATHERPROOF FIRE ALARM BELL. COORDINATE AND APPROVE FINAL LOCATION WITH FIRE MARSHALL/AUTHORITY.
2. SURFACE MOUNT FIRE ALARM REMOTE ANNUNCIATOR. PROVIDE WITH ACCESSORIES FOR MULLION MOUNT INSTALLATION. ROUTE CABLE/CONDUIT THROUGH MULLION, STUBBED INTO ACCESSIBLE CEILING.
3. RETURN/EXHAUST AIR DUCT SMOKE DETECTOR FOR DOAS-1 SHUTDOWN DURING ALARM CONDITION. COORDINATE WITH MECHANICAL.

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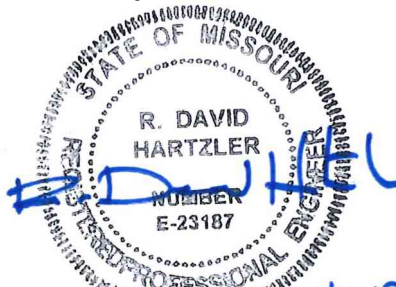
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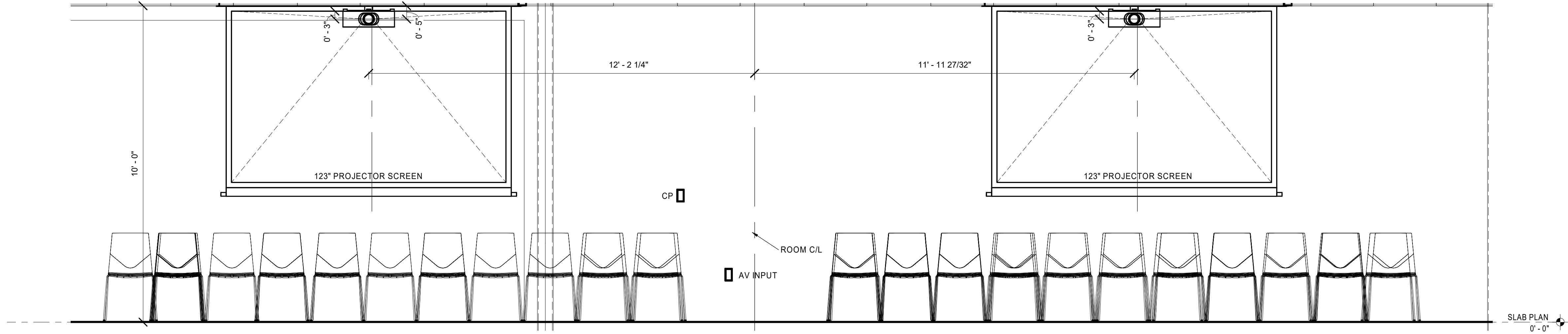
Revision No.	Description	Date
1	ASI 01	2019-01-14

Project No.	Date	Drawn
1013-004	08-16-2018	AP

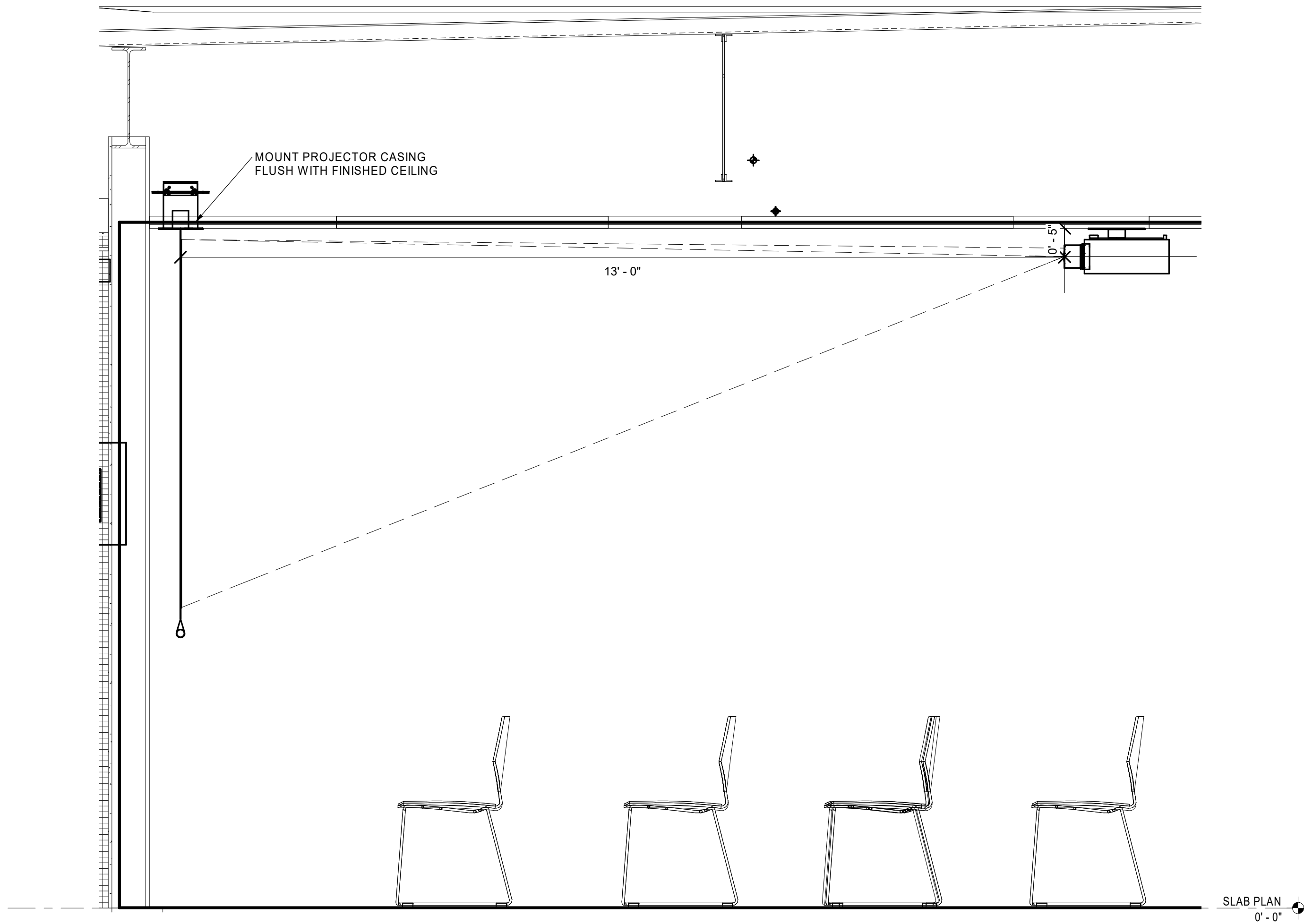
Drawing No.

E301
SPECIAL SYSTEMS PLAN

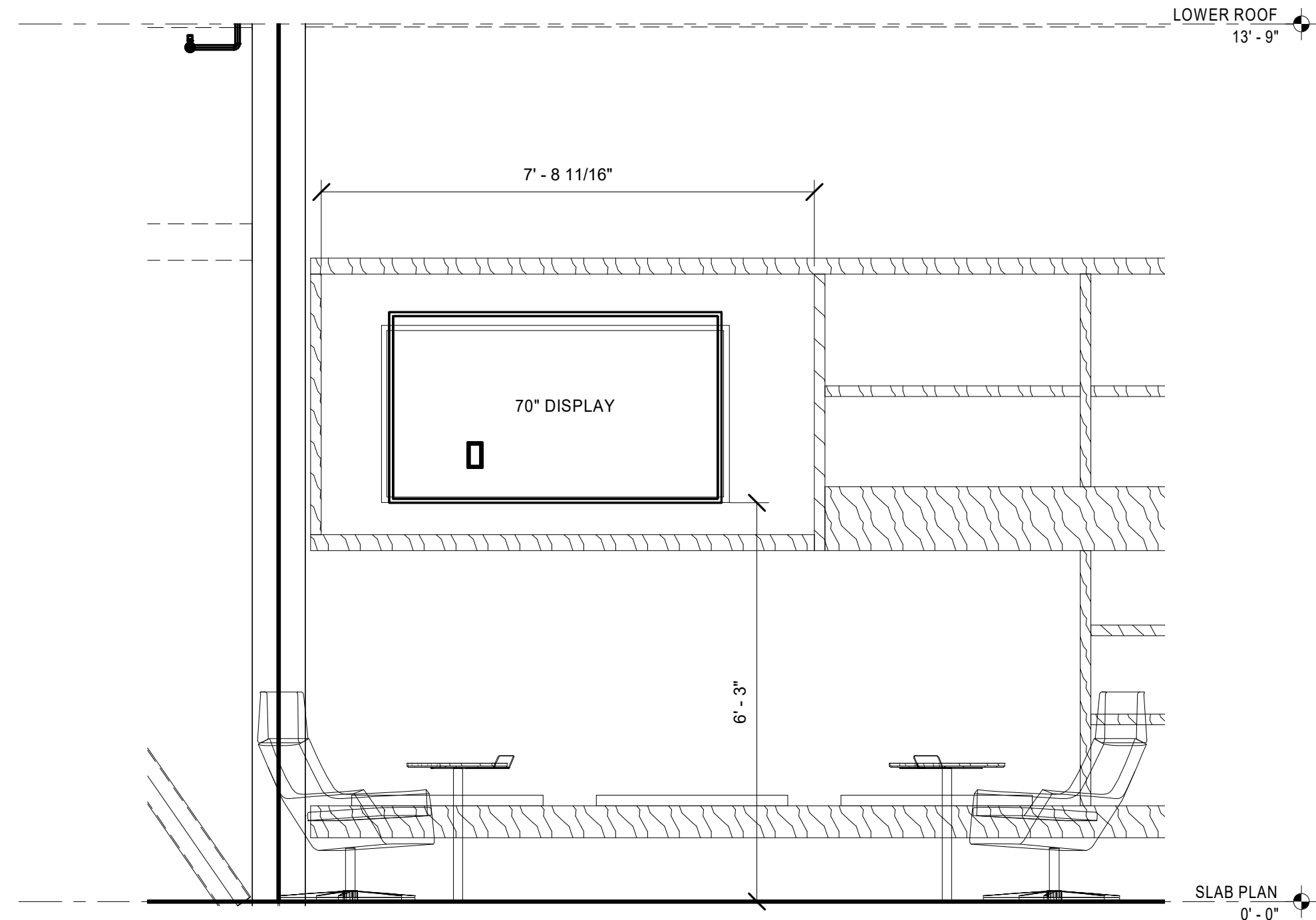
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1 COMMUNITY ROOM DISPLAY WALL ELEVATION
1/2" = 1'-0"



2 COMMUNITY ROOM PROJECTOR SIDE ELEVATION
3/4" = 1'-0"



3 SOUTH SITTING AREA WALL DISPLAY ELEVATION
1/2" = 1'-0"

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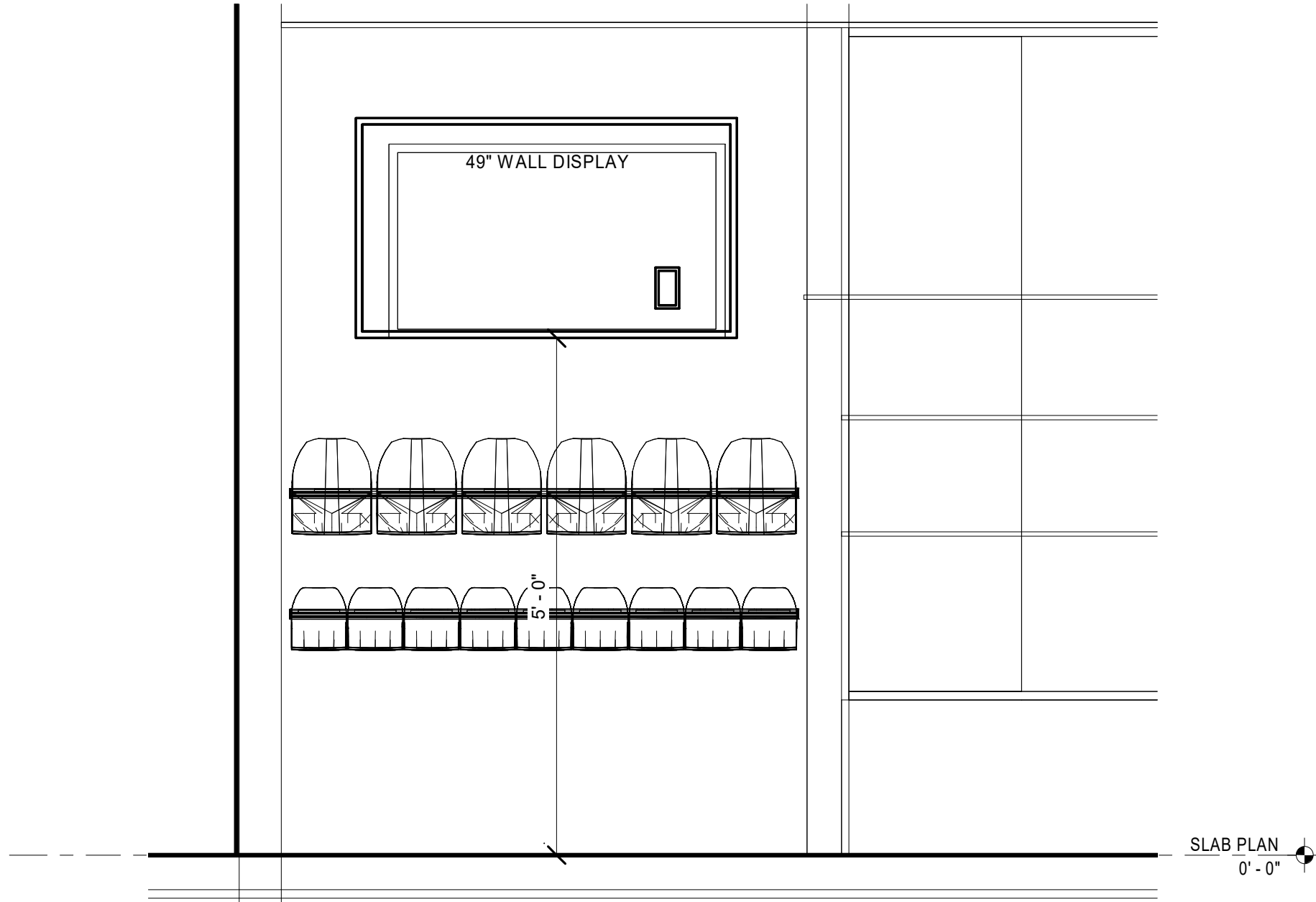
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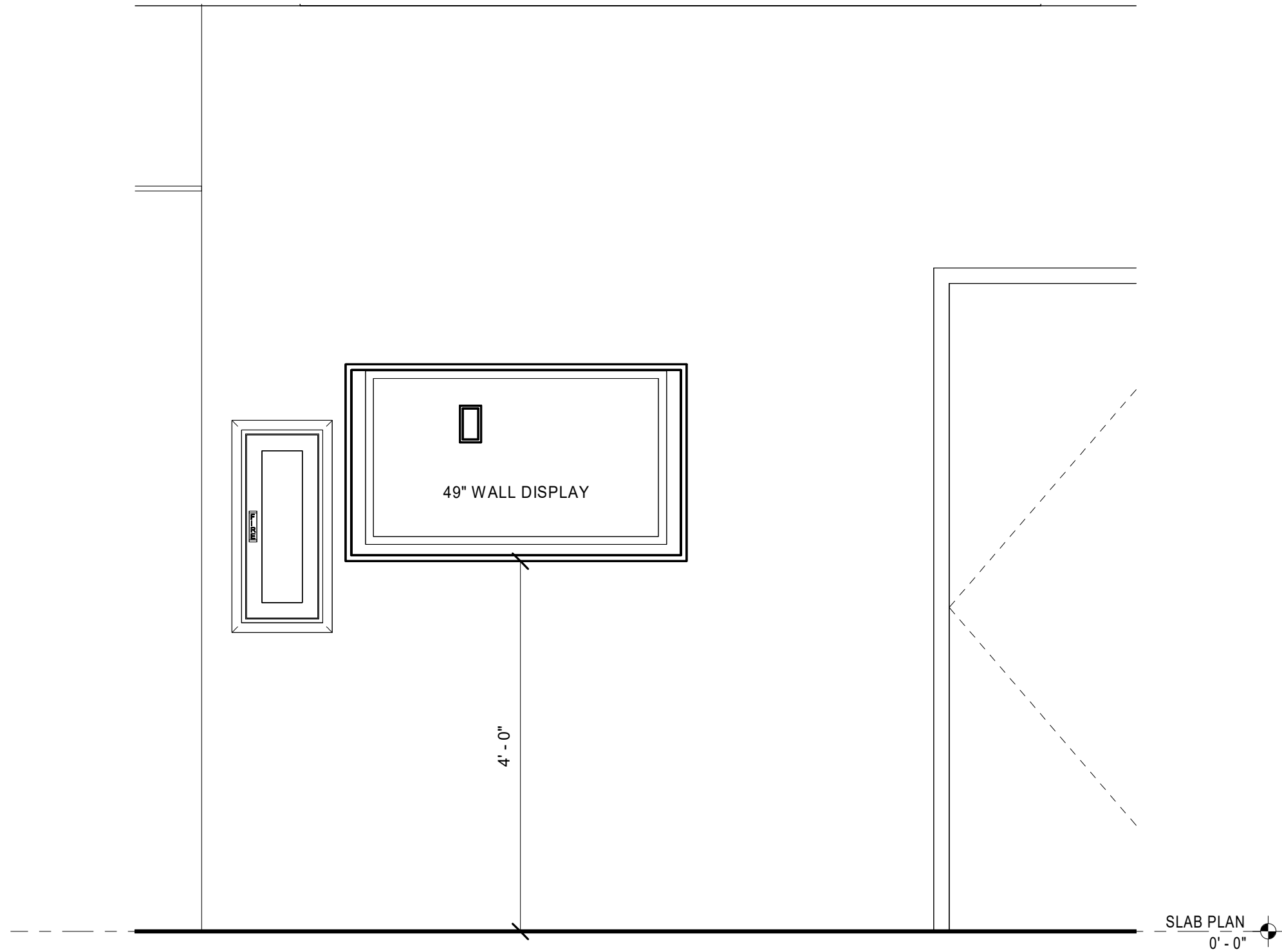
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Missouri State Certificate of Authority # 200202733
Revision No. Description Date

Project No. 1013-004 Date 08-16-2018 Drawn Author

Drawing No. **E401**
TECHNOLOGY ELEVATIONS



4 NORTH SEATING AREA DISPLAY ELEVATION
3/4" = 1'-0"



5 VENDING AREA WALL DISPLAY ELEVATION
3/4" = 1'-0"

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Revision No.	Description	Date

Project No. 1013-004	Date 08-16-2018	Drawn Author
-------------------------	--------------------	-----------------

Drawing No.
E402
TECHNOLOGY ELEVATIONS

CEILING PROJECTOR LOCATION
INCLUDE WHITE PROJECTOR MOUNT, POLE,
CEILING PLATE, AND EQUIPMENT SHELF

20' HDMI INPUT CABLE
12' 3.5mm INPUT CABLE

CONTROL PANEL
EXTRON EBP 200
CONTROL
eBUS

WIRELESS MIC
SHURE GLXD24R/B58
OUT
LINE

WIRELESS MIC
SHURE GLXD14R/B5
OUT
LINE

HDMI RX
EXTRON DTP2 R 211
IN DTP
OUT HDMI
LINE

HDMI TX
EXTRON DTP T HWP 4K 231 D
IN HDMI
3.5mm
OUT DTP

HDMI DA
EXTRON XTP SR HDMI
IN HDMI
OUT HDMI
HDMI

HDMI TX
EXTRON DTP2 T 211
IN HDMI
OUT DTP

6,000 LM PROJECTOR
EPSON POWERLITE L610U
IN HDMI
IN LAN
OUT RS-232

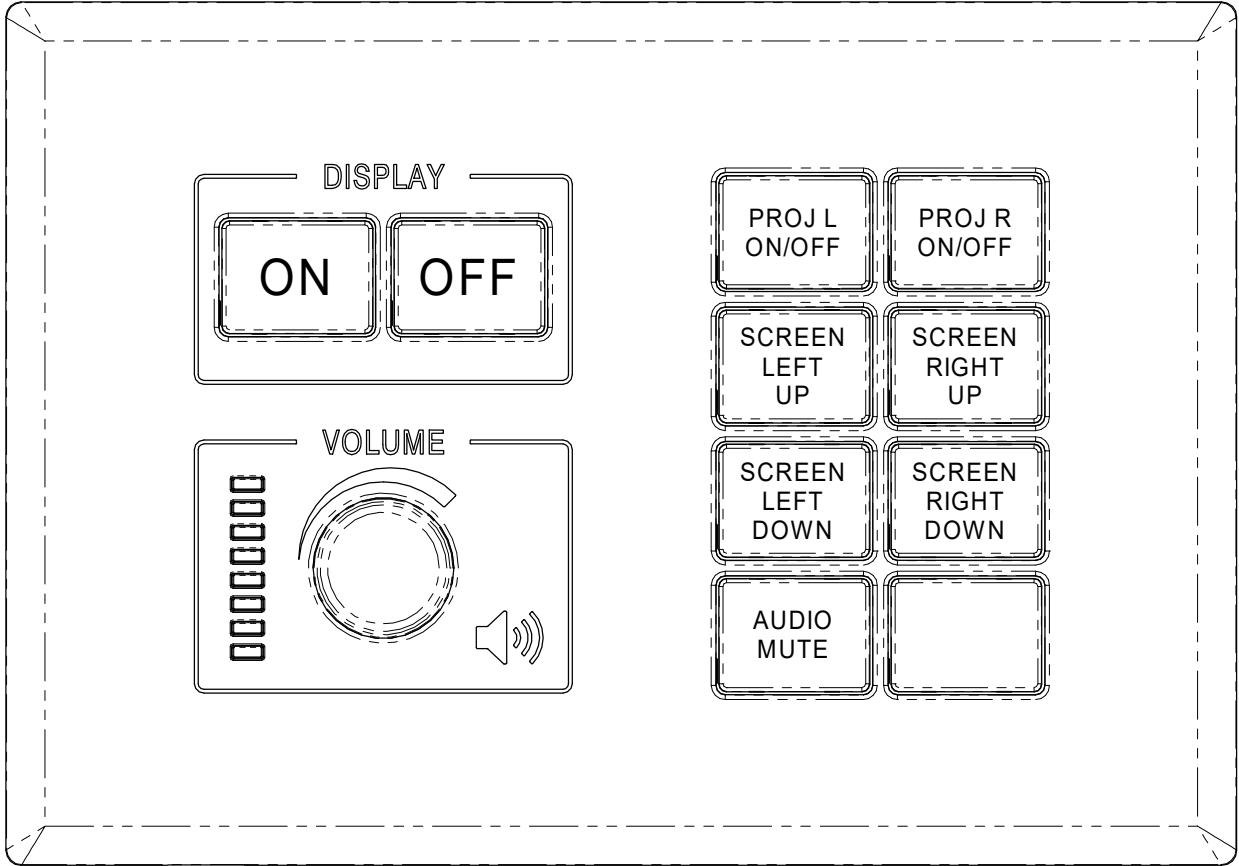
CONTROL PROCESSOR
EXTRON IPCP PRO 350
CONTROL
RELAY
RELAY
RELAY
LAN

AUDIO DSP/AMP
STEWART FLX320-1-CV
IN RS-232
OUT
LINE
LINE
70V
LINE

CEILING LOUDSPEAKER
(SEE PLAN FOR QTY.)
SONANCE PS-C43RT
IN 70V

PROJECTION SCREEN
DA-LITE CONTOUR
ELECROL 20877LS
CONTROL
RELAY
RELAY

PROJECTION SCREEN
DA-LITE CONTOUR
ELECROL 20877LS
CONTROL
RELAY
RELAY



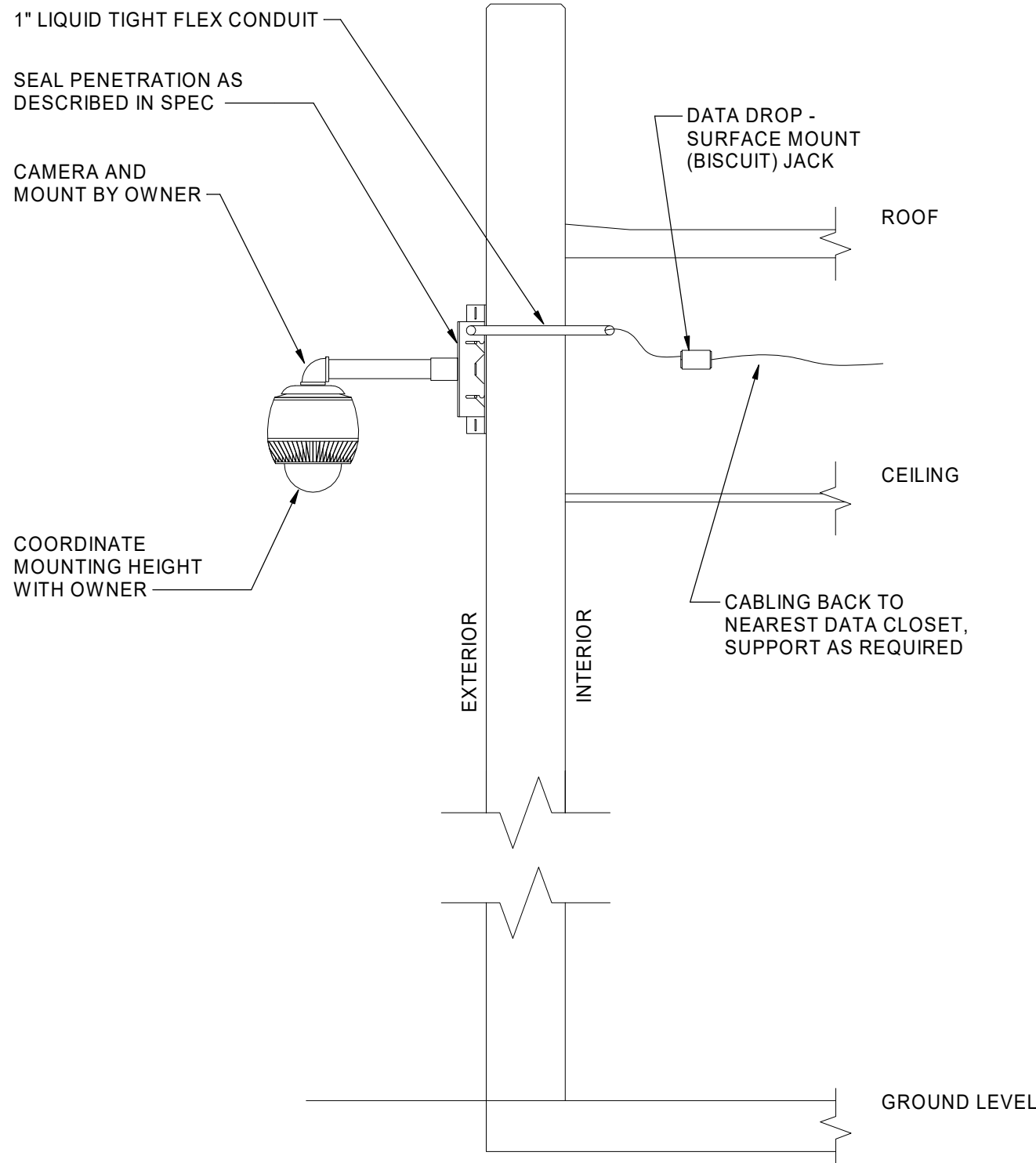
RESPONSIBILITY MATRIX	
GENERAL POWER	JE DUNN
FIRE ALARM	JE DUNN
OPEN CEILING CABLE MANAGEMENT	JE DUNN
ACCESS CONTROL ROUGH-IN	JE DUNN
ACCESS CONTROL EQUIPT.	JE DUNN
ACCESS CONTROL CABLING	JE DUNN
A/V EQUIPT. ROUGH-IN	JE DUNN
A/V EQUIPT. POWER	JE DUNN
A/V EQUIPT.	JE DUNN
A/V EQUIPT. CABLING	JE DUNN
RFID ROUGH-IN	JE DUNN
RFID POWER	JE DUNN
RFID EQUIPT.	MCPL
RFID CABLING	MCPL
ROOM SCHEDULERS ROUGH-IN	JE DUNN
ROOM SCHEDULERS POWER	JE DUNN
ROOM SCHEDULERS	JE DUNN
ROOM SCHEDULERS DATA DROPS	MCPL
ROOM SCHEDULERS CABLING TO DATA DROPS	JE DUNN
TELE/DATA ROUGH-IN	JE DUNN
TELE/DATA POWER	JE DUNN
TELE/DATA EQUIPT.	MCPL
TELE/DATA CABLING	MCPL
TELE/DATA TERMINATIONS	MCPL
WAPS	MCPL
VIDEO SURV. ROUGH-IN	MCPL
VIDEO SURV. POWER	N/A - POE
VIDEO SURV. EQUIPT.	MCPL
VIDEO SURV. CABLING	MCPL

1 AV FLOW CHART

N.T.S.

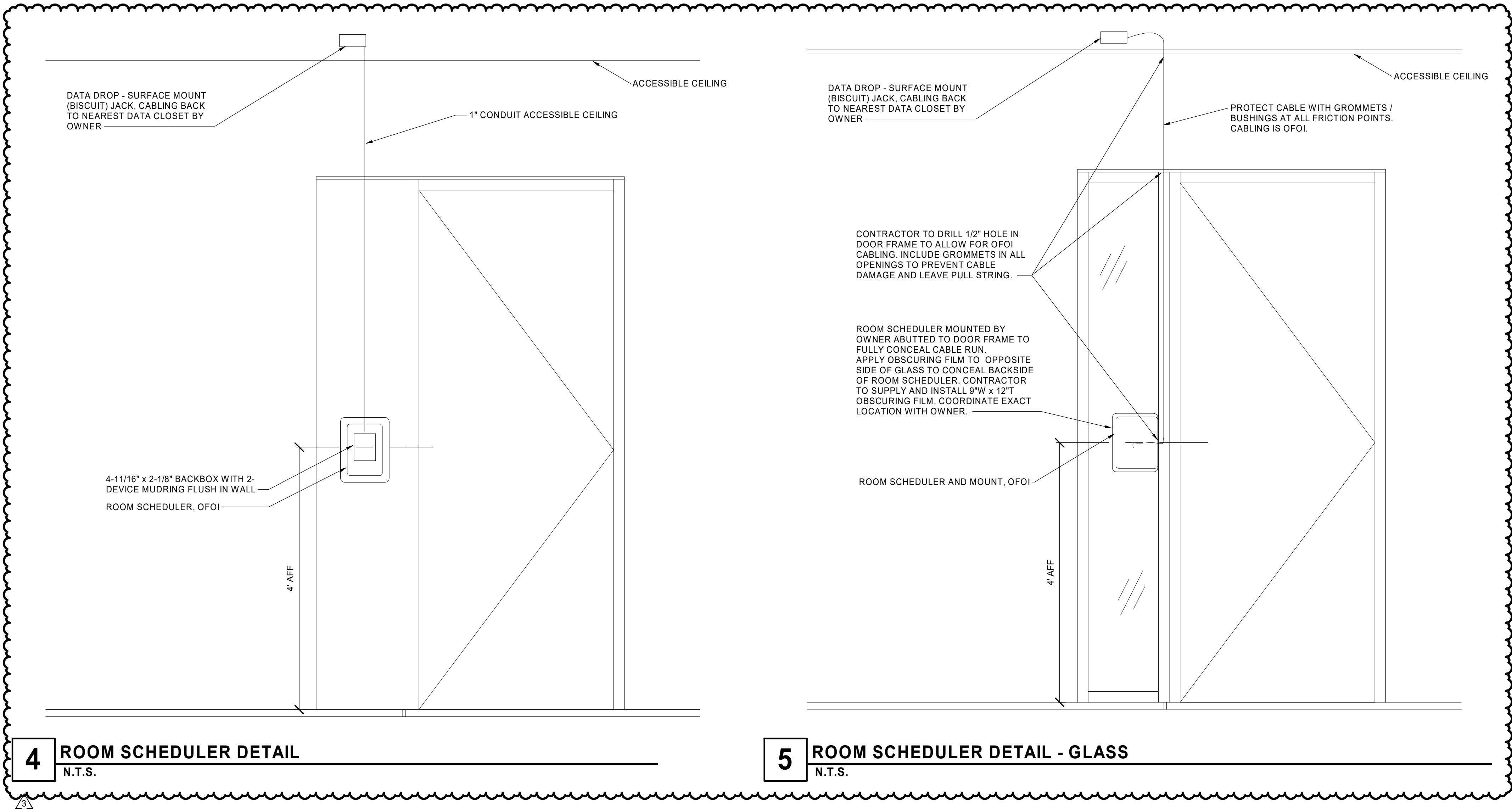
2 CONTROL PANEL DETAIL

N.T.S.



3 EXTERIOR CAMERA DETAIL

N.T.S.



4 ROOM SCHEDULER DETAIL

N.T.S.

5 ROOM SCHEDULER DETAIL - GLASS

N.T.S.

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R. DAVID HARTZLER
LICENSED PROFESSIONAL ENGINEER
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2/12/19

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M.E. GROUP Missouri State Certificate of Authority # 2002002733		
Revision No.	Description	Date
1	ASI 01	2019-01-14
3	ASI 03	2019-02-12

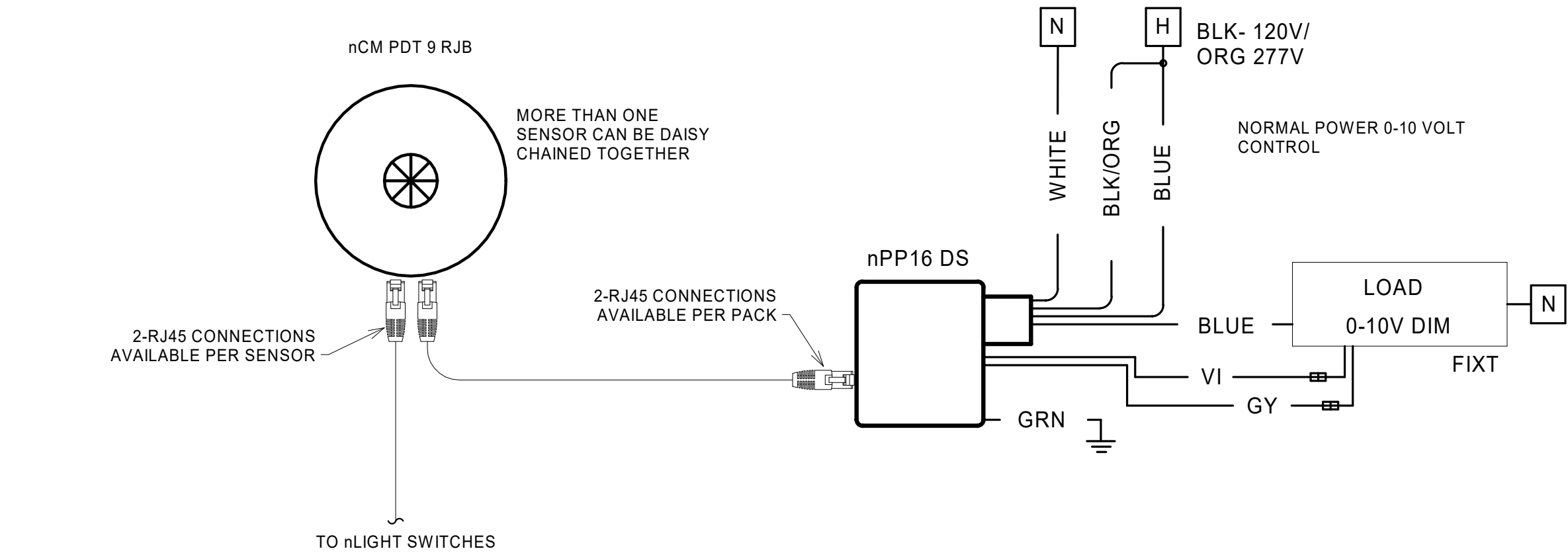
Project No. 1013-004	Date 01-14-2019	Drawn Author
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Drawing No.

E403

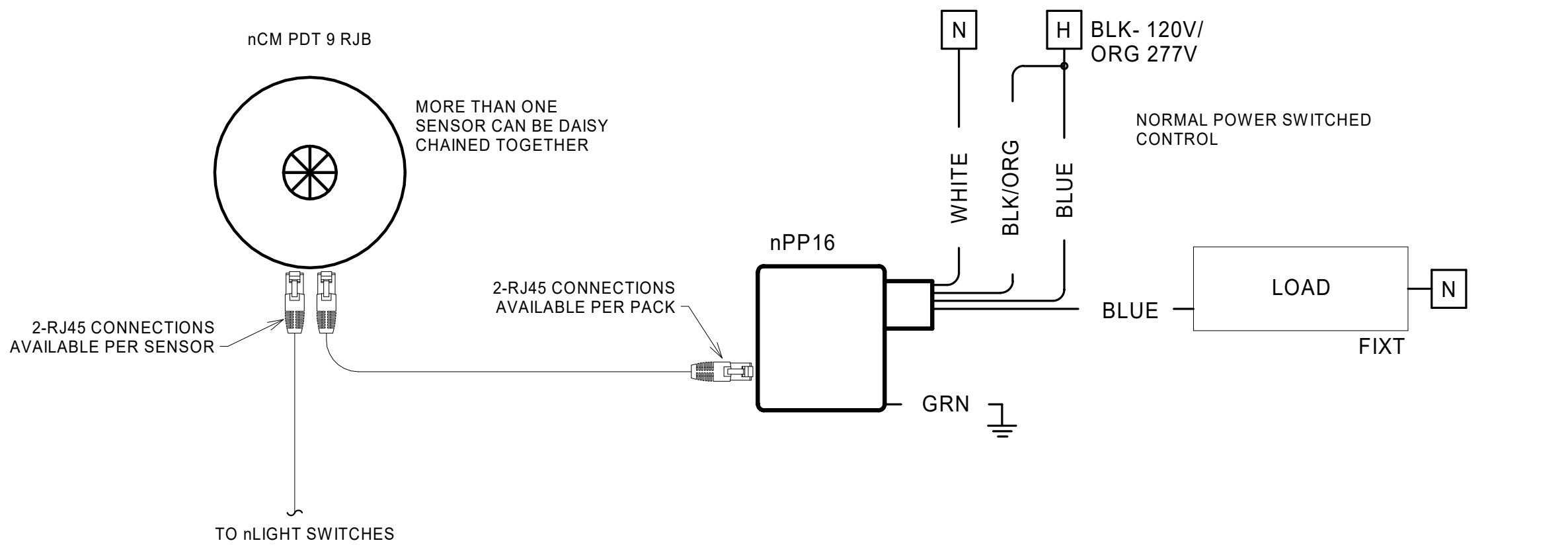
TECHNOLOGY DETAILS

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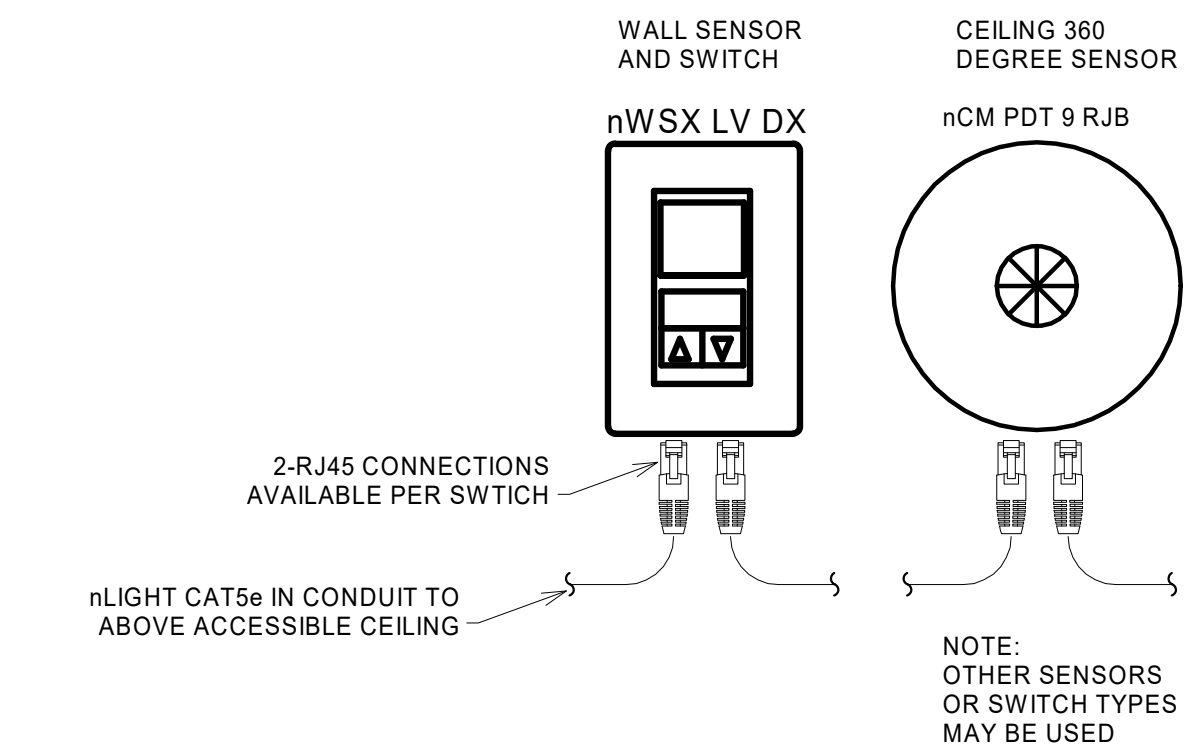
BASIS OF DESIGN FOR LIGHTING CONTROL IS nLIGHT SYSTEM BY ACUITY CONTROLS.
EQUIVALENT SYSTEMS, INCLUDING BUT NOT LIMITED TO WATTSTOPPER - DLM, OR LUTRON - QUANTUM, WILL BE ACCEPTABLE.

A3 TYPICAL DIGITAL 0-10 VOLT DIMMING
N.T.S.



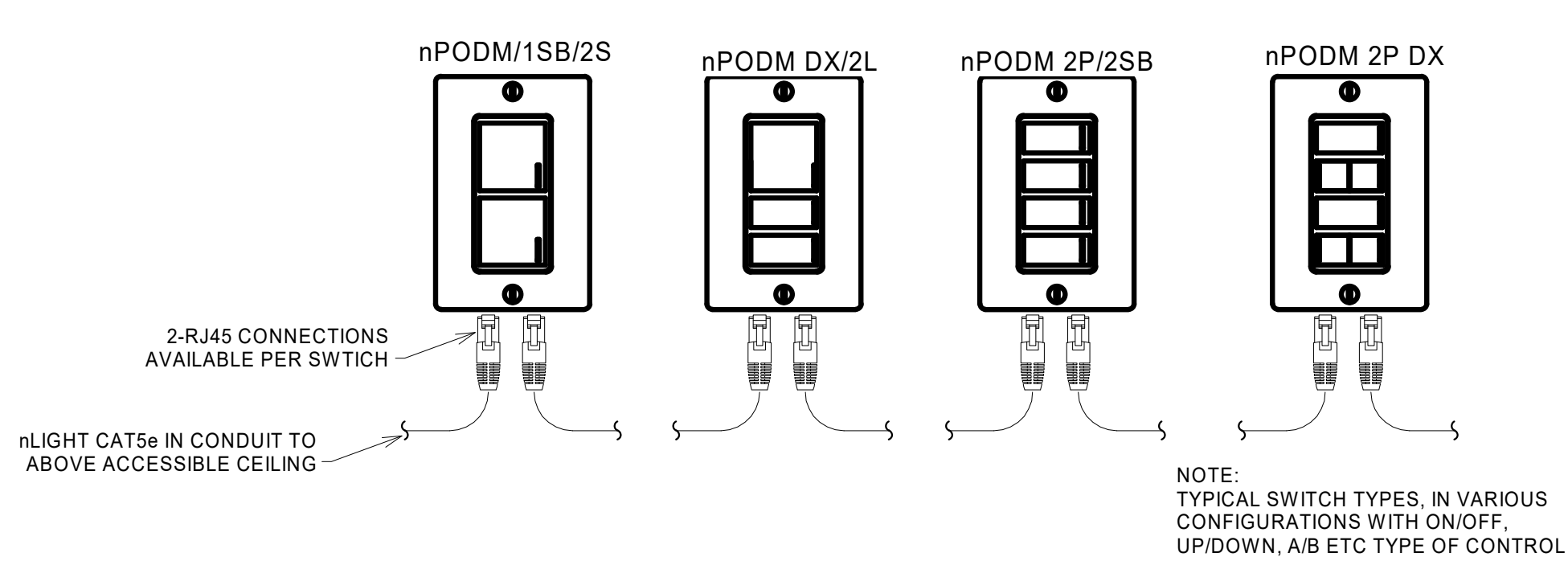
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D3 TYPICAL DIGITAL CONTROL SWITCHED
N.T.S.



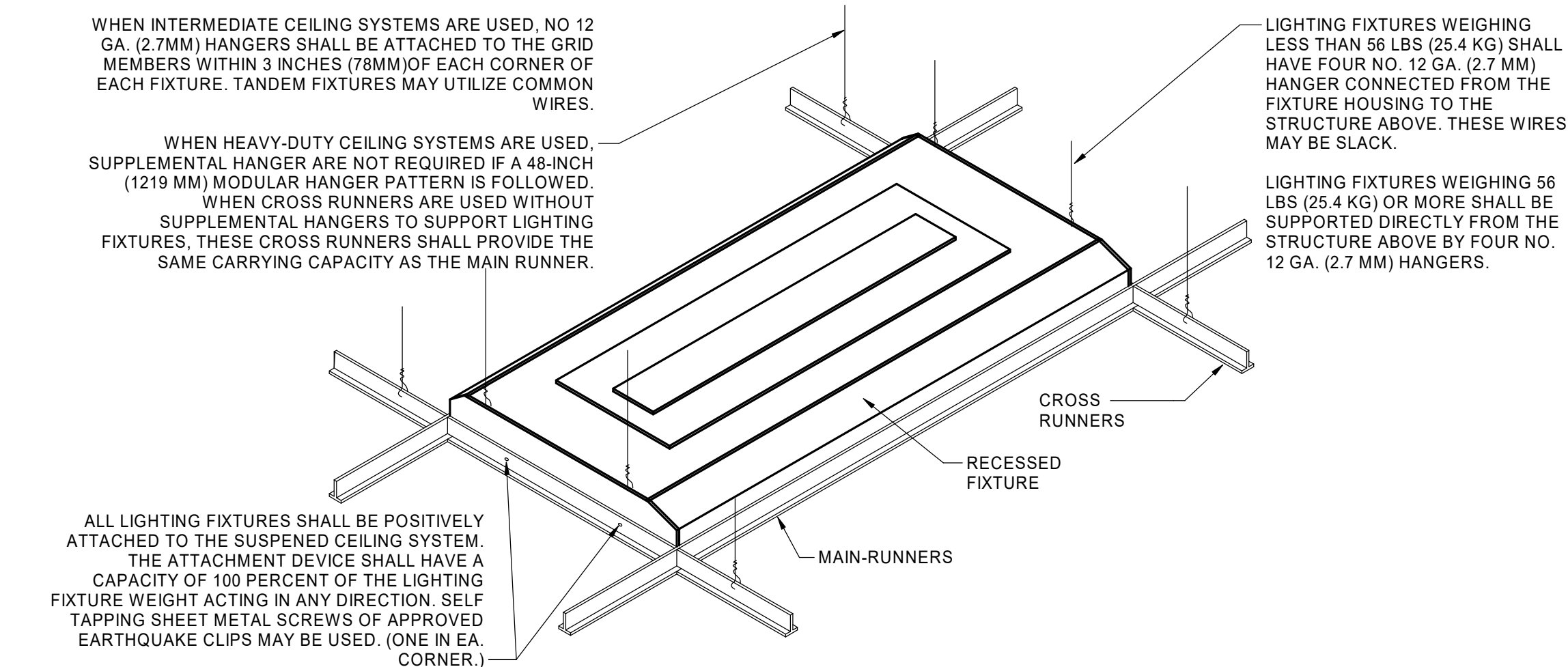
BASIS OF DESIGN FOR LIGHTING CONTROL IS nLIGHT SYSTEM BY ACUITY CONTROLS.
EQUIVALENT SYSTEMS, INCLUDING BUT NOT LIMITED TO WATTSTOPPER - DLM, OR LUTRON - QUANTUM, WILL BE ACCEPTABLE.

A2 TYPICAL DIGITAL SENSOR TYPES
N.T.S.

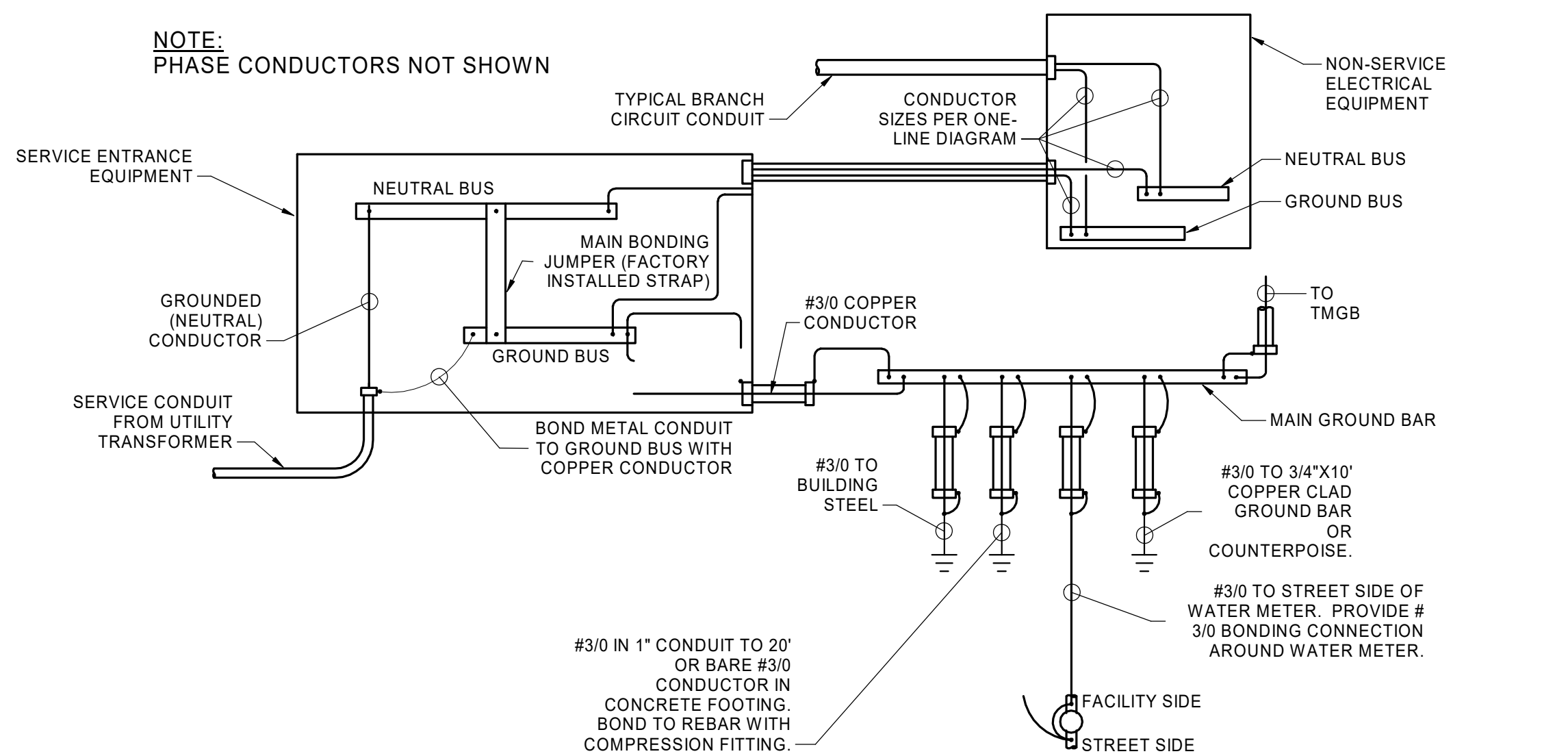


BASIS OF DESIGN FOR LIGHTING CONTROL IS nLIGHT SYSTEM BY ACUITY CONTROLS.
EQUIVALENT SYSTEMS, INCLUDING BUT NOT LIMITED TO WATTSTOPPER - DLM, OR LUTRON - QUANTUM, WILL BE ACCEPTABLE.

C2 TYPICAL DIGITAL SWITCH TYPES
N.T.S.



A1 LAY-IN FIXTURE DETAIL
N.T.S.



D1 SERVICE ENTRANCE AND GROUNDING DETAIL
N.T.S.

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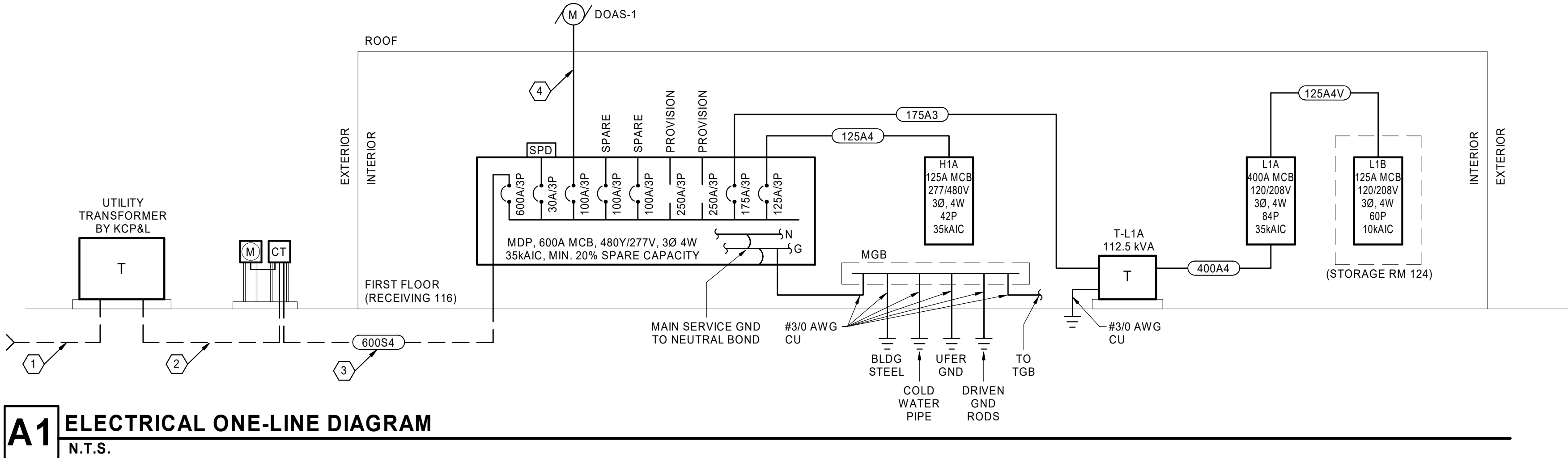
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FEEDER SCHEDULE				
FEEDER TAG	SETS	PHASE (& NEUTRAL)	EQUIPMENT GROUND	CONDUIT
175A3		(3) #2/0 CU	#6 CU	2"
125A4		(4) #1 CU	#6 CU	2"
125A4V		(4) #1/0 CU	#4 CU	2"
400A4	2	(4) #3/0 CU	#3 CU	2"
600S4	2	(4) #400 CU		3"
SCHEDULE NOTES:				
1. THIS FEEDER SCHEDULE IS BASED ON 60°C WIRE AND TERMINATIONS FOR SIZES #12 TO #1, AND 75°C WIRE AND TERMINATIONS FOR SIZES GREATER THAN OR EQUAL TO #1/0.				
2. CONDUIT SIZES ARE BASED ON THHN-THWN WIRE IN RIGID METALLIC CONDUIT.				
3. FEEDER TAGS WITH A "V" SUFFIX INDICATE THAT CONDUCTORS HAVE BEEN SIZED FOR VOLTAGE DROP.				

BRANCH CIRCUIT COPPER CONDUCTOR AND CONDUIT SIZE*/**/***						
OVERCURRENT PROTECTION DEVICE RATING (AMPS)	REQUIRED CONDUCTOR SIZE	EQUIPMENT GROUNDING CONDUCTOR SIZE	SINGLE PHASE 2 WIRE + GND. CONDUIT SIZE	SINGLE PHASE 3 WIRE + GND. CONDUIT SIZE (where noted on page 1)	THREE PHASE 3 WIRE + GND. CONDUIT SIZE	THREE PHASE 4 WIRE + GND. CONDUIT SIZE (where noted on circuit)
15	12 AWG	12 AWG	3/4"	3/4"	3/4"	3/4"
20	12 AWG	12 AWG	3/4"	3/4"	3/4"	3/4"
25	10 AWG	10 AWG	3/4"	3/4"	3/4"	3/4"
30	10 AWG	10 AWG	3/4"	3/4"	3/4"	3/4"
35	8 AWG	10 AWG	3/4"	3/4"	3/4"	3/4"
40	8 AWG	10 AWG	3/4"	3/4"	3/4"	3/4"
45	6 AWG	10 AWG	3/4"	3/4"	3/4"	1"
50	6 AWG	10 AWG	3/4"	3/4"	3/4"	1"
60	4 AWG	10 AWG	1"	1"	1"	1-1/4"
70	4 AWG	8 AWG	1"	1"	1"	1-1/4"
80	3 AWG	8 AWG	1"	1-1/4"	1-1/4"	1-1/4"
90	2 AWG	8 AWG	1"	1-1/4"	1-1/4"	1-1/4"
100	1 AWG	8 AWG	1-1/4"	1-1/2"	1-1/2"	1-1/2"
* = UNLESS NOTED OTHERWISE ON THE DRAWINGS.						
** = CONDUIT SIZE DOES NOT APPLY TO "MC" CABLE.						
*** = ALL CONDUCTORS SIZED ON THE ELECTRICAL ONE-LINE DIAGRAM OR IN THE BRANCH CIRCUIT CONDUCTOR TABLE ARE BASED ON 3 CURRENT CARRYING CONDUCTORS IN A RACEWAY OR CABLE. CONDUCTORS SHALL BE DERATED IN ACCORDANCE WITH THE NEC IF 4 OR MORE CURRENT CARRYING CONDUCTORS ARE PLACED IN A RACEWAY OR CABLE.						

MECHANICAL EQUIPMENT CONNECTION SCHEDULE													
TAG	SERVES	HP	FLA	MCA	KW	VOLTAGE	PHASE	MOPD	CONDUCTORS (AWG)	CONDUIT SIZE	TYPE	DISC SWITCH (AMPS/POLES)	NOTES
CU-1	CONDENSING UNIT		17.6 A	31.9 A	26.5	480 V	3	40 A	(3)#8, #10G	3/4"	NEMA 3R	60A / 3P	
CU-1B	CONDENSING UNIT		17.6 A	31.9 A	26.5	480 V	3	40 A	(3)#8, #10G	3/4"	NEMA 3R	60A / 3P	
CU-2	CONDENSING UNIT		17 A	25.9 A	21.5	480 V	3	35 A	(3)#8, #10G	3/4"	NEMA 3R	60A / 3P	
CU-2	CONDENSING UNIT		17 A	25.9 A	21.5	480 V	3	35 A	(3)#8, #10G	3/4"	NEMA 3R	60A / 3P	
DOAS-1	OUTSIDE AIR UNIT		68.8 A	86 A	58	480 V	3	100 A	(3)#2, #8G	1-1/4"	NEMA 3R	100A / 3P	
FC-1	FAN COIL UNIT			0.3 A		208 V	1	15 A	(2)#12, #12G	1/2"	TOGGLE	20A / 2P	
FC-2A	FAN COIL UNIT			1.3 A		208 V	1	15 A	(2)#12, #12G	1/2"	TOGGLE	20A / 2P	
FC-2B	FAN COIL UNIT			1.3 A		208 V	1	15 A	(2)#12, #12G	1/2"	TOGGLE	20A / 2P	
FC-2C	FAN COIL UNIT			1.3 A		208 V	1	15 A	(2)#12, #12G	1/2"	TOGGLE	20A / 2P	
FC-2D	FAN COIL UNIT			1.3 A		208 V	1	15 A	(2)#12, #12G	1/2"	TOGGLE	20A / 2P	
FC-3	FAN COIL UNIT			0.3 A		208 V	1	15 A	(2)#12, #12G	1/2"	TOGGLE	20A / 2P	
FC-4	FAN COIL UNIT			0.3 A		208 V	1	15 A	(2)#12, #12G	1/2"	TOGGLE	20A / 2P	
FC-5	FAN COIL UNIT			0.3 A		208 V	1	15 A	(2)#12, #12G	1/2"	TOGGLE	20A / 2P	
FC-6	FAN COIL UNIT			0.3 A		208 V	1	15 A	(2)#12, #12G	1/2"	TOGGLE	20A / 2P	
FC-7	FAN COIL UNIT			9.0 A		208 V	1	15 A	(2)#12, #12G	1/2"	TOGGLE	20A / 2P	
FC-8	FAN COIL UNIT			9.0 A		208 V	1	15 A	(2)#12, #12G	1/2"	TOGGLE	20A / 2P	
FC-9	FAN COIL UNIT			0.8 A		208 V	1	15 A	(2)#12, #12G	1/2"	TOGGLE	20A / 2P	
FC-10	FAN COIL UNIT			0.3 A		208 V	1	15 A	(2)#12, #12G	1/2"	TOGGLE	20A / 2P	
FC-11	FAN COIL UNIT			0.3 A		208 V	1	15 A	(2)#12, #12G	1/2"	TOGGLE	20A / 2P	
FC-12	FAN COIL UNIT			1.8 A		208 V	1	15 A	(2)#12, #12G	1/2"	TOGGLE	20A / 2P	
FC-13A	FAN COIL UNIT			3.3 A		208 V	1	15 A	(2)#12, #12G	1/2"	TOGGLE	20A / 2P	
FC-13B	FAN COIL UNIT			3.3 A		208 V	1	15 A	(2)#12, #12G	1/2"	TOGGLE	20A / 2P	
FC-14	FAN COIL UNIT			0.8 A		208 V	1	15 A	(2)#12, #12G	1/2"	TOGGLE	20A / 2P	
FC-15	FAN COIL UNIT			0.4 A		208 V	1	15 A	(2)#12, #12G	1/2"	TOGGLE	20A / 2P	
FC-16	FAN COIL UNIT			2.8 A		208 V	1	15 A	(2)#12, #12G	1/2"	TOGGLE	20A / 2P	
FC-17A	FAN COIL UNIT			2.8 A		208 V	1	15 A	(2)#12, #12G	1/2"	TOGGLE	20A / 2P	
FC-17B	FAN COIL UNIT			2.8 A		208 V	1	15 A	(2)#12, #12G	1/2"	TOGGLE	20A / 2P	
FC-18	FAN COIL UNIT			3.3 A		208 V	1	15 A	(2)#12, #12G	1/2"	TOGGLE	20A / 2P	
FC-19	FAN COIL UNIT			3.3 A		208 V	1	15 A	(2)#12, #12G	1/2"	TOGGLE	20A / 2P	
FC-20	FAN COIL UNIT			3.3 A		208 V	1	15 A	(2)#12, #12G	1/2"	TOGGLE	20A / 2P	
FC-21A	FAN COIL UNIT			2.8 A		208 V	1	15 A	(2)#12, #12G	1/2"	TOGGLE	20A / 2P	
FC-21B	FAN COIL UNIT			3.3 A		208 V	1	15 A	(2)#12, #12G	1/2"	TOGGLE	20A / 2P	
IWH-1	ELECTRIC WATER HEATER		14.8 A		4.1	277 V	1	20 A	(1)#12, #12G	1/2"	LOCKABLE BREAKER	20A / 1P	
RP-1	RECIRC PUMP		0.84 A			120 V	1	20 A	(1)#12, #12G	1/2"	TOGGLE	20A / 1P	
WH-1	WATER HEATER			3 A		120 V	1	20 A	(1)#12, #12G	1/2"	RECEPTACLE	N/A	



- GENERAL NOTES** (THIS SHEET)
- REFER TO E001 SHEET FOR ELECTRICAL LEGEND AND ADDITIONAL GENERAL NOTES.
 - ALUMINUM BUSSING IS ALLOWABLE IN BRANCH CIRCUIT PANELBOARDS AND DISTRIBUTION PANELBOARDS.
 - ALL FEEDERS AND BRANCH CIRCUIT WIRING SHALL BE COPPER CONDUCTORS. UTILIZE SOLID CONDUCTORS FOR #10 AWG AND SMALLER, AND UTILIZED STRANDED CONDUCTORS FOR #8 AWG AND LARGER.
 - PANELBOARDS INDICATED ON ONE-LINE DIAGRAMS DO NOT SHOW ALL BRANCH CIRCUITS. REFER TO PANELBOARD SCHEDULES FOR MORE INFORMATION.

- KEY NOTES** (THIS SHEET)
- PRIMARY CONDUCTORS BY KCP&L. REFERENCE CIVIL FOR INCOMING UTILITY CONNECTION.
 - MAXIMUM AVAILABLE FAULT CURRENT AT 24.3KA, BASED ON 300KVA, 3-PHASE, 480Y/277V UTILITY TRANSFORMER. ACTUAL TRANSFORMER SIZE TO BE SELECTED BY KCP&L. BASED ON BUILDING DEMAND, THE ANTICIPATED SIZE IS 225KVA.
 - PROVIDE CONDUIT SEALS ON BOTH ENDS IN ACCORDANCE WITH NEC ARTICLE 230.8.
 - REFERENCE MECHANICAL EQUIPMENT CONNECTION SCHEDULE FOR FEEDER SIZE AND ADDITIONAL INFORMATION.

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R. DAVID HARTZLER
Professional Engineer
E-23187
1/4/2019

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Revision No. Description Date
1 ASI 01 2019-01-14

Project No. 1013-004 Date 08-16-2018 Drawn AE

Drawing No. **E601**
ELECTRICAL ONE-LINE DIAGRAM

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LUMINAIRE SCHEDULE											
FIXTURE TYPE	DESCRIPTION	MANUFACTURER* (OR APPROVED EQUIVALENT)	MODEL	LAMPS (QTY) TYPE	LAMP CCT	LAMP CRI	LAMP LUMENS	INPUT VA	VOLTAGE	SCHEDULED NOTES	
A1	4" LINEAR LED WALL GRAZING FIXTURE. RGB LED CHANNELS. EXTRUDED ALUMINUM HOUSING, UV-PROTECTED POLYCARBONATE LENS. PROVIDE WITH SHORT ADJUSTABLE MOUNTING ARM, AND MULTI-POSITIONAL, LOCKABLE MOUNTING HINGES. IP66 RATED, UL WET LOCATION LISTED. WATERPROOF MALE/FEMALE CONNECTORS.	COLOR KINETICS*	123-000079-38	LED	0 K	N/A	1580	60 VA	277 V		
A3	STATIC WHITE LINEAR LED STRIP WITH ALUMINUM EXTRUSION. PROVIDE LEAD WIRES/CONNECTORS AS REQUIRED. ALUMINUM EXTRUSION HOUSING WITH DIFFUSE LENS.	Q-TRAN*	SW24/4.0-DRY-35-BW-CLS-80" & TELA-ST-SST-DF-S1-80"	LED	3500 K	96	350/FT	28 VA	277 V		
C1	4" DEEP X 5" LINEAR LED COVE LIGHT. ALUMINUM EXTRUSION HOUSING, POWDER COAT FINISH. STANDARD 0-10V DIMMING DRIVER. EXTRUDED FLUSH LENS ASSEMBLY.	LEDALITE*	4908-L-B-K-Q-S-N-05-7-2-E	LED	3500 K	80	350/FT	17 VA	277 V		
D1	6" DIAMETER, LED DOWNLIGHT. STEEL HOUSING, RECESSED. PROVIDE TRIM WITH MEDIUM BEAM DISTRIBUTION, CONFIRM FINISH WITH ARCHITECT.	LIGHTOLIER* (COLUMBIA, LITHONIA)	C6RN-C6L10835MZ10U-C6RDLCC	LED	3500 K	80	1000	9 VA	277 V		
D1E	SAME AS TYPE D1, WITH 90-MINUTE BATTERY BACKUP.	LIGHTOLIER* (COLUMBIA, LITHONIA)	C6RN-EM-C6L10835MZ10U-C6RDLCC	LED	3500 K	80	1000	9 VA	277 V		
D2	6" DIAMETER, LED DOWNLIGHT. STEEL HOUSING, RECESSED. PROVIDE TRIM WITH MEDIUM BEAM DISTRIBUTION, CONFIRM FINISH WITH ARCHITECT.	LIGHTOLIER* (COLUMBIA, LITHONIA)	C6RN-C6L15835MZ10U-C6RDLCC	LED	3500 K	80	1500	15 VA	277 V		
D2E	SAME AS TYPE D2, WITH 90-MINUTE BATTERY BACKUP.	LIGHTOLIER* (COLUMBIA, LITHONIA)	C6RN-EM-C6L15835MZ10U-C6RDLCC	LED	3500 K	80	1500	15 VA	277 V		
D4	4" DIAMETER, LED DOWNLIGHT. STEEL HOUSING, RECESSED. PROVIDE TRIM WITH MEDIUM BEAM DISTRIBUTION, CONFIRM FINISH WITH ARCHITECT.	LIGHTOLIER* (COLUMBIA, LITHONIA)	C4RN-C4L20830MZ10U-C4RDLCC	LED	3000 K	80	2000	21 VA	277 V		
D5	4" DIAMETER, LED DOWNLIGHT. STEEL HOUSING, RECESSED. PROVIDE TRIM WITH MEDIUM BEAM DISTRIBUTION, CONFIRM FINISH WITH ARCHITECT.	LIGHTOLIER* (COLUMBIA, LITHONIA)	C4RN-C4L30830MZ10U-C4RDLCC	LED	3000 K	80	3000	21 VA	277 V		
D5E	SAME AS TYPE D5, WITH 90-MINUTE BATTERY BACKUP.	LIGHTOLIER* (COLUMBIA, LITHONIA)	C4RN-EM-C4L30830MZ10U-C4RDLCC	LED	3000 K	80	3000	21 VA	277 V		
G1	9.5" x 6.25" LED EXTERIOR FLOOD LIGHT, CONFIRM FINISH WITH ARCHITECT.	ILP* (HUBBELL)	CFM-52W-U-30K-XXX-N44/M52	LED	3000 K	70	6700	52 VA	120 V		
P1	4" SQUARE x 4" LINEAR LED PENDANT. DIRECT DISTRIBUTION. ALUMINUM HOUSING AND END CAPS, WITH FLUSH FROSTED SNAP-IN DIFFUSER. ADJUSTABLE AIRCRAFT CABLE SUSPENSION. CONFIRM FINISH WITH ARCHITECT.	FINELITE* (COLUMBIA, LITHONIA)	HP-4 D-4"-H-835-F-277V-FA-SC	LED	3500 K	80	720/FT	29 VA	277 V		
P1E	SAME AS TYPE P1, WITH 90-MINUTE BATTERY BACKUP.	FINELITE* (COLUMBIA, LITHONIA)	HP-4 D-4"-H-835-F-277V-FA-SC-EM	LED	3500 K	80	720/FT	29 VA	277 V		
P2	4" x 12" LINEAR LED PENDANT. DIRECT/INDIRECT DISTRIBUTION. FLUSH DIFFUSER DOWNLIGHT, WIDESPREAD OPTIC UPLIGHT. ALUMINUM HOUSING AND END CAPS. FIELD ADJUSTABLE 100" AIRCRAFT CABLE SUSPENSION. CONFIRM FINISH WITH ARCHITECT.	FINELITE* (COLUMBIA, LITHONIA)	HP-4 ID-12"-V-V-835-WSO-F-277V-FA-FE-SC	LED	3500 K	80	915/FT (DOWN), 1075/FT (UP)	220 VA	277 V		
P2E	SAME AS TYPE P2, WITH 90-MINUTE BATTERY BACKUP.	FINELITE* (COLUMBIA, LITHONIA)	HP-4 ID-12"-V-V-835-WSO-F-277V-FA-FE-SC-EM	LED	3500 K	80	915/FT (DOWN), 1075/FT (UP)	220 VA	277 V		
P3	2" x 4" LINEAR LED PENDANT. DIRECT/INDIRECT DISTRIBUTION. FLUSH DIFFUSER DOWNLIGHT, WIDESPREAD OPTIC UPLIGHT. ALUMINUM HOUSING AND END CAPS. FIELD ADJUSTABLE 150" AIRCRAFT CABLE SUSPENSION. CONFIRM FINISH WITH ARCHITECT.	FINELITE* (COLUMBIA, LITHONIA)	HP-2 ID-4"-B-B-835-WSO-F-96LG-277V-FA-FE-SC	LED	3500 K	80	915/FT (DOWN), 515/FT (UP)	36 VA	277 V	3, 4	
P4	2" x 7" LINEAR LED PENDANT. DIRECT/INDIRECT DISTRIBUTION. FLUSH DIFFUSER DOWNLIGHT, WIDESPREAD OPTIC UPLIGHT. ALUMINUM HOUSING AND END CAPS. FIELD ADJUSTABLE 150" AIRCRAFT CABLE SUSPENSION. CONFIRM FINISH WITH ARCHITECT.	FINELITE* (COLUMBIA, LITHONIA)	HP-2 ID-7"-B-B-835-WSO-F-96LG-277V-FA-FE-SC	LED	3500 K	80	425/FT (DOWN), 515/FT (UP)	63 VA	277 V	3, 4	
P5	2" x 8" LINEAR LED PENDANT. DIRECT/INDIRECT DISTRIBUTION. FLUSH DIFFUSER DOWNLIGHT, WIDESPREAD OPTIC UPLIGHT. ALUMINUM HOUSING AND END CAPS. FIELD ADJUSTABLE 150" AIRCRAFT CABLE SUSPENSION. CONFIRM FINISH WITH ARCHITECT.	FINELITE* (COLUMBIA, LITHONIA)	HP-2 ID-8"-B-B-835-WSO-F-96LG-277V-FA-FE-SC	LED	3500 K	80	425/FT (DOWN), 515/FT (UP)	72 VA	277 V	3, 4	
P8	8" CYLINDER PENDANT, LED DOWNLIGHT. AIRCRAFT CABLE MOUNT. CONFIRM FINISH WITH ARCHITECT.	INTENSE* (COLUMBIA, LITHONIA)	IHOLC8DR-L5-35-D101-50-_-C-C144	LED	3500 K	82	7000	93 VA	277 V		
P8E	SAME AS TYPE P8, WITH 90-MINUTE BATTERY BACKUP.	INTENSE* (COLUMBIA, LITHONIA)	IHOLC8DREM-L5-35-D101-50-_-C-C144-EM	LED	3500 K	82	7000	93 VA	277 V		
P9	DECORATIVE ARCHITECTURAL LED PENDANT. GLOBE-SHAPE GLASS DIFFUSER INSIDE SPHERICAL BLUE WIRE FRAME. GU24 A19 LED. CONFIRM FINISH WITH ARCHITECT.	GLOBAL LIGHTING*	8425308	LED	2700 K	80	1100	12 VA	120 V		
R1	RECESSED 2'X4' LED TROFFER, WITH DIFFUSE CENTER ACRYLIC LENS. LOW PROFILE STEEL HOUSING, PAINTED AFTER FABRICATION. DIMMING STANDARD.	DAY-BRITE* (COLUMBIA, LITHONIA)	2FGG54L8335-4-DS-UNV-DIM	LED	3500 K	80	5400	49 VA	277 V		
R1E	SAME AS TYPE R1, WITH 90-MINUTE BATTERY BACKUP.	DAY-BRITE* (COLUMBIA, LITHONIA)	2FGG54L8335-4-DS-UNV-DIM	LED	3500 K	80	5400	49 VA	277 V		
R4	RECESSED 4"X8" LED LINEAR FIXTURE. POWDER COATED ALUMINUM HOUSING. FLUSH, FROSTED ACRYLIC SNAP-IN DIFFUSER.	FINELITE* (COLUMBIA, LITHONIA)	HP-4 R-8"-V-835-F-277-SC	LED	3500 K	80	932/FT	75 VA	277 V		
R4E	SAME AS TYPE R4, WITH 90-MINUTE BATTERY BACKUP.	FINELITE* (COLUMBIA, LITHONIA)	HP-4 R-8"-V-835-F-277-SC-EM	LED	3500 K	80	932/FT	75 VA	277 V		
R5	RECESSED 4"X6" LED LINEAR FIXTURE. POWDER COATED ALUMINUM HOUSING. FLUSH, FROSTED ACRYLIC SNAP-IN DIFFUSER.	FINELITE* (COLUMBIA, LITHONIA)	HP-4 R-6"-V-835-F-277-SC	LED	3500 K	80	932/FT	56 VA	277 V		
R5E	SAME AS TYPE R5, WITH 90-MINUTE BATTERY BACKUP.	FINELITE* (COLUMBIA, LITHONIA)	HP-4 R-6"-V-835-F-277-SC-EM	LED	3500 K	80	932/FT	56 VA	277 V		
S1	48" INDUSTRIAL LINEAR LED STRIP, WITH ACRYLIC LENS. SURFACE OR SUSPENDED MOUNTING.	DAY-BRITE* (COLUMBIA, LITHONIA)	FSS430L835-UNV-DIM	LED	3500 K	80	3000	31 VA	277 V	2	
S1E	SAME AS TYPE S1, WITH 90-MINUTE BATTERY BACKUP.	DAY-BRITE* (COLUMBIA, LITHONIA)	FSS430L835-UNV-DIM-EMLED	LED	3500 K	80	3000	31 VA	277 V	2	
V1	4" SQUARE x 8" LINEAR SURFACE MOUNTED LED. IP65 RATED, UL WET LOCATION LISTED. IK10 IMPACT PROTECTION. ALUMINUM HOUSING AND END CAPS, WITH FLUSH FROSTED SNAP-IN DIFFUSER. POWDER COAT FINISH, CONFIRM FINISH WITH ARCHITECT.	FINELITE*	HP-4 WL SM-8"-S-830-F-277V-SC-C4	LED	3000 K	80	350/FT	29 VA	277 V		
W1E	WALL MOUNTED LED SCONCE. FULL CUTOFF (ZERO UPLIGHT). ALUMINUM HOUSING, POWDER COAT FINISH. IP65 RATED, SUITABLE FOR WET LOCATIONS. 90 MINUTE EMERGENCY BATTERY BACKUP. INTEGRAL PHOTOCCELL CONTROL. CONFIRM FINISH WITH ARCHITECT.	GARDCO* (HUBBELL, LITHONIA)	PWS-140L-650-VWV-G2-4-EBP-UNV-PCB	LED	3000 K	70	3700	30 VA	277 V		
X1	UNIVERSAL MOUNT LED EDGE-LIT EXIT SIGN. SINGLE- OR DOUBLE-SIDED, FIELD SELECTABLE DIRECTIONAL CHEVRONS. UL924 LISTED. MINIMUM 90-MINUTE BATTERY BACKUP.	CHLORIDE* (LITHONIA, DUAL-LITE)	ER44RLDU-1or2-R	LED		N/A		3 VA	277 V	1	

LIGHTING CONTROL SCHEDULE - PANEL 'LC'

BASIS OF DESIGN - ACUITY CONTROLS BLUE BOX LT (16 RELAY ENCLOSURE), WITH ROOF MOUNTED PHOTOCELL						
CONTROL ZONE	CIRCUIT NUMBER(S)	DESCRIPTION	VOLTAGE	TYPE	LOAD FEED TYPE	NOTES
ZONE - 1	H1A - 8	LINEAR & CYLINDER PENDANTS, TYPES 'P2' & 'P8'	277	LED	NORMAL	SWITCHED LEG 'z' VIA KEYPAD IN 'CORRIDOR 143F'
ZONE - 2	H1A - 13	LINEAR PENDANT, TYPE 'P2'	277	LED	NORMAL	SWITCHED LEG 'y' VIA KEYPAD IN 'CORRIDOR 143F'
ZONE - 3	H1A - 16	LINEAR & CYLINDER PENDANTS, TYPES 'P2,' 'P3,' 'P4' & 'P8'	277	LED	NORMAL	SWITCHED LEG 'x' VIA KEYPAD IN 'CORRIDOR 143F'
ZONE - 4	H1A - 14	LINEAR PENDANTS, TYPES 'P2,' 'P3' & 'P4'	277	LED	NORMAL	SWITCHED LEG 'w' VIA KEYPAD IN 'CORRIDOR 143F'
ZONE - 5	H1A - 18	LINEAR & CYLINDER PENDANTS, TYPES 'P4,' 'P5' & 'P8'	277	LED	NORMAL	SWITCHED LEG 'v' VIA KEYPAD IN 'CORRIDOR 143F'
ZONE - 6	H1A - 11	LINEAR & CYLINDER PENDANTS, TYPES 'P3' & 'P8'	277	LED	NORMAL	SWITCHED LEG 'u' VIA KEYPAD IN 'CORRIDOR 143F'
ZONE - 7	H1A - 15	LINEAR PENDANT, TYPE 'P2'	277	LED	NORMAL	SWITCHED LEG 't' VIA KEYPAD IN 'CORRIDOR 143F'
ZONE - 8	H1A - 12	LINEAR PENDANT, TYPE 'P2'	277	LED	NORMAL	SWITCHED LEG 's' VIA KEYPAD IN 'CORRIDOR 143F'
ZONE - 9	H1A - 6	LINEAR PENDANT, TYPE 'P1'	277	LED	NORMAL	SWITCHED LEG 'u' VIA KEYPAD IN 'CORRIDOR 143F'
ZONE - 10	L1A - 60	DECORATIVE PENDANT, TYPE 'P9'	120	LED	NORMAL	SWITCHED LEG 'd' VIA KEYPAD IN 'CORRIDOR 143E'
ZONE - 11	H1A - 7	RECESSED FIXTURES, TYPES 'R4,' 'R5' & 'D2'	277	LED	NORMAL	SWITCHED LEG 'c' VIA KEYPAD IN 'CORRIDOR 143E'
ZONE - 12	H1A - 2	EXTERIOR RECESSED FIXTURE, TYPE 'D5'	277	LED	NORMAL	CONTROLLED VIA PHOTOCELL, STANDARD DUSK-TO-DAWN OPERATION
ZONE - 13	H1A - 1	EXTERIOR RECESSED & SURFACE, TYPES 'D4' & 'V1'	277	LED	NORMAL	CONTROLLED VIA PHOTOCELL, STANDARD DUSK-TO-DAWN OPERATION
ZONE - 14	H1A - 5	PARKING LOT LIGHTS, TYPE 'Z1' & 'Z2'	277	LED	NORMAL	CONTROLLED VIA PHOTOCELL, STANDARD DUSK-TO-DAWN OPERATION
ZONE - 15	L1A - 1	SOUTH EXTERIOR SIGNAGE/LETTERING	120	LED	NORMAL	CONTROLLED VIA PHOTOCELL, STANDARD DUSK-TO-DAWN OPERATION
ZONE - 16	L1A - 54	NORTH EXTERIOR SIGNAGE/LETTERING	120	LED	NORMAL	CONTROLLED VIA PHOTOCELL, STANDARD DUSK-TO-DAWN OPERATION
NOTES: 1. PROVIDE TIME CLOCK AND PHOTOCELL CONTROLLABILITY FOR INDIVIDUAL ZONES. 2. FIELD PROGRAM TIME-OF-DAY OPERATIONS WITH OWNER. I.e. LIGHTS ON 30-MIN BEFORE STAFF ARRIVAL, LIGHTS OFF 30-MIN AFTER STAFF DEPARTURE.						

LUMINAIRE SCHEDULE INFORMATION

LUMINAIRE TYPE KEY:

- B EXTERIOR BOLLARDS
- C COVE
- D DOWNLIGHT
- G IN-GRADE LIGHT
- L LINEAR
- P PENDANT
- R RECESSED
- S STRIP
- T TRACK LIGHTING
- U UNDER CABINET
- V SURFACE
- W WALL
- X EXIT SIGN/EMERGENCY FIXTURE
- Z EXTERIOR AREA LIGHT

VARIATIONS OR OTHER FEATURES:

- D LUMINAIRE WITH DIMMING DRIVER.
- NL LUMINAIRE SERVING AS SECURITY NIGHT LIGHT (SHOWN ON PLANS). LEAVE LUMINAIRE UNSWITCHED.

GENERAL NOTES:

- A. **PACKAGING OF LUMINAIRES AND LIGHTING CONTROL IS PROHIBITED. PROVIDE LINE ITEM PRICING FOR ALL LUMINAIRES AND LIGHTING CONTROL DEVICES.**
- B. LUMINAIRE SHOWN WITH CATALOG NUMBERS ARE THE BASIS OF DESIGN LUMINAIRES. SIMILAR BY OTHER LISTED MANUFACTURERS MAY BE ACCEPTABLE AFTER REVIEW BY ENGINEER AND ARCHITECT.
- C. CONTRACTOR SHALL VERIFY LUMINAIRE CATALOG NUMBERS AND INSTALLATION REQUIREMENTS PRIOR TO INSTALLATION.
- D. VERIFY TRIM COMPATIBILITY WITH CEILING TYPE PRIOR TO SUBMITTALS.
- E. VERIFY AIRCRAFT CABLE LENGTHS AND POWER CORD LENGTHS FOR ALL PENDANT-TYPE FIXTURES WITH THE NOTED MOUNTED HEIGHTS PRIOR TO SUBMITTALS.
- F. COORDINATE WALL MOUNTING HEIGHTS WITH ARCHITECTURAL PLANS, ELEVATIONS AND DETAILS.

SCHEDULED NOTES:

- 1. REFERENCE FLOOR PLANS FOR CHEVRONS, LOCATIONS AND TYPES.
- 2. REFERENCE FLOOR PLANS FOR ADDITIONAL MOUNTING INFORMATION.
- 3. LINEAR PENDANT SUPPLIED WITH MANUFACTURER PROVIDED END-TO-END, ANGLED CONNECTIONS (60/120 DEGREE INTERSECTIONS) TO FORM DIAMOND-SHAPE CLUSTERS. MANUFACTURER SHALL SUBMIT SITE-SPECIFIC SHOP DRAWING FOR ARCHITECT APPROVAL PRIOR TO PURCHASING.
- 4. VERIFY MOUNTING HEIGHTS OF EACH END OF DIAMOND-SHAPE CLUSTERS WITH ARCHITECT PRIOR TO INSTALLATION. OPPOSITE ENDS OF DIAMOND-SHAPE CLUSTERS INSTALLED AT DIFFERING HEIGHTS ABOVE FINISH FLOOR, TO CREATE TILTING EFFECT, UNLESS NOTED OTHERWISE.

SAPP
DESIGN
ARCHITECTS

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SPECIAL NOTES

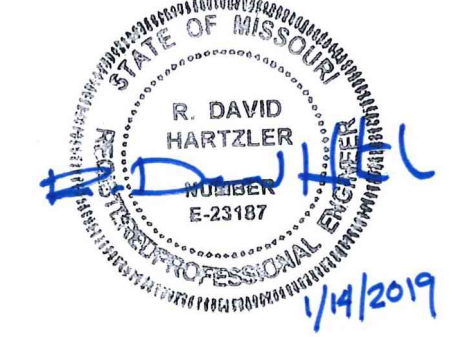
In the event the client consents to, allows, authorizes or approves of changes to any plans, specifications or other construction documents, and these changes are not approved in writing by the design professional, the client recognizes that such changes and the results thereof are not the responsibility of the design professional. Therefore, the client agrees to release the design professional from any liability arising from the construction, use or result of such changes. In addition, the client agrees to the fullest extent permitted by law, to indemnify and hold the design professional harmless from any damage, liability or cost (including reasonable attorney's fees and costs of defense) arising from such changes.

The personal seal of the registered architect or Engineer shall be the legal equivalent of his signature whenever & wherever used, and the owner of this seal shall authenticate the sheet and the specification sections pertaining to this sheet. Responsibility shall be declared for all other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural project.

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Engineer of Record



R. David Hartzler, Engineer MO 023187

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1	ASI 01	2019-01-14

Project No. 1013-004	Date 08-16-2018	Drawn AP
Drawing No.		

E701
LUMINAIRE SCHEDULE

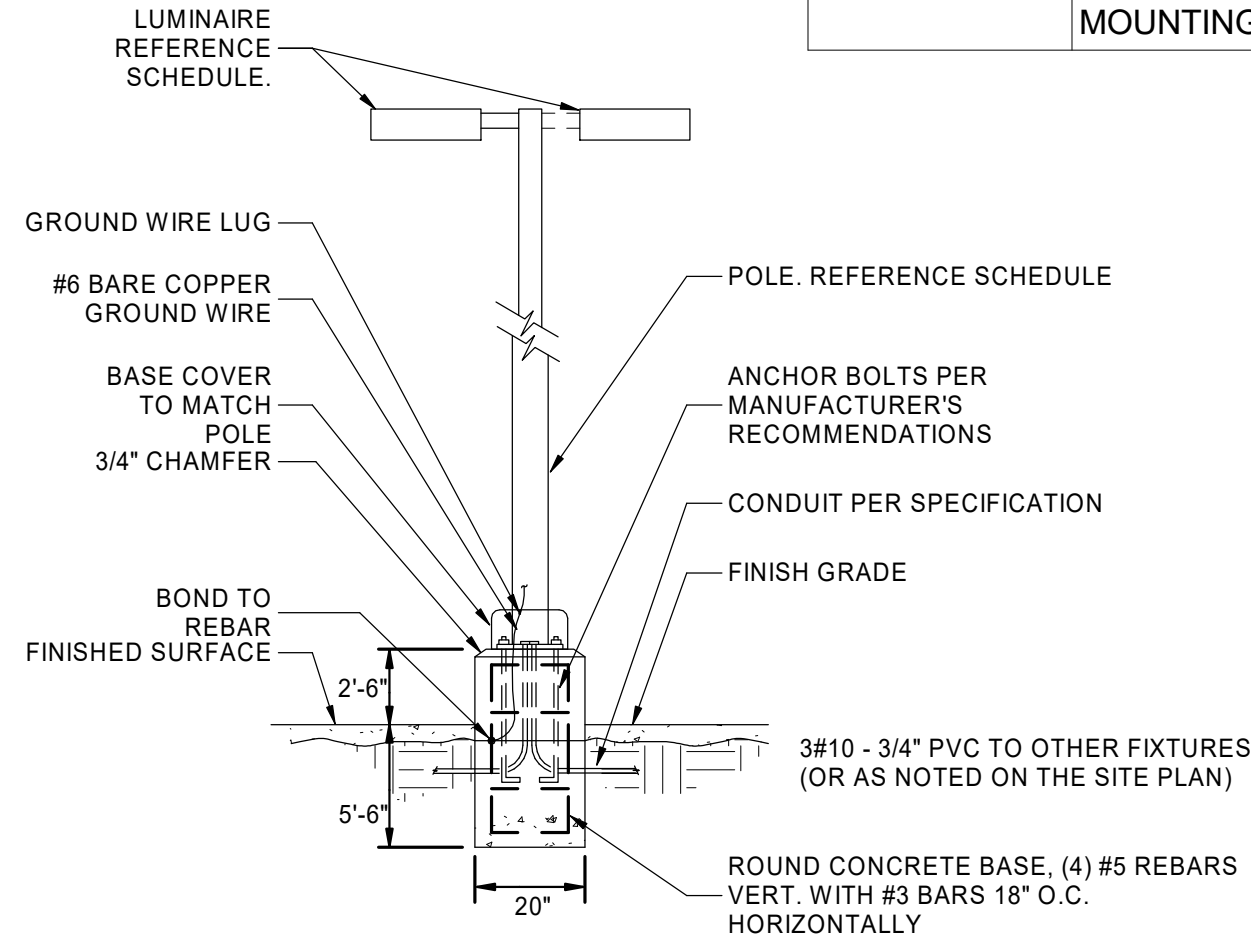
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Switchboard: MDP											
Location: RECEIVING 116					Volts: 480/277 Wye			A.I.C. Rating: 35,000			
Supply From: UTILITY TRANSFORMER					Phases: 3			Mains Type: MCB			
Mounting: Surface					Wires: 4			Mains Rating: 600 A			
Enclosure: Type 1								MCB Rating: 600 A			
CKT	Circuit Description		Load Classification	Frame	Trip	Poles	Phase A	Phase B	Phase C	Load	Notes
1	H1A		E; L	400 A	125 A	3	8241 VA	7082 VA	11109 VA	26432 VA	
2	T-L1A		R; E; L	400 A	175 A	3	31340 VA	32730 VA	27170 VA	91240 VA	
3	DISC: DOAS-1		E	400 A	100 A	3	19333 VA	19333 VA	19333 VA	58000 VA	
4	SPARE		--	--	100 A	3	--	--	--	0 VA	
5	SPARE		--	--	100 A	3	--	--	--	0 VA	
6	SPD		--	--	30 A	3	--	--	--	0 VA	
7	BUSSED SPACE		--	--	--	--	--	--	--	0 VA	--
8	BUSSED SPACE		--	--	--	--	--	--	--	0 VA	--
9	DISC: CU-1A		E	400 A	40 A	3	8840 VA	8840 VA	8840 VA	26521 VA	
10	DISC: CU-1B		E	400 A	40 A	3	8840 VA	8840 VA	8840 VA	26521 VA	
11	DISC: CU-2A		E	400 A	35 A	3	7178 VA	7178 VA	7178 VA	21533 VA	
12	DISC: CU-2B		E	400 A	35 A	3	7178 VA	7178 VA	7178 VA	21533 VA	
Total Conn. Load:							90950 VA	91181 VA	89648 VA		
Total Amps:							329 A	330 A	324 A		
Load Classification			Connected Load	Demand Factor		Estimated Demand		Panel Totals			
L	Lighting		24312 VA	125.00%		30390 VA					
C	Continuous							Total Conn. Load: 271780 VA			
R	Receptacle		52240 VA	59.57%		31120 VA		Total Est. Demand: 237215 VA			
M	Motor							Total Conn.: 327 A			
LM	Largest Motor							Total Est. Demand: 285 A			
E	Equipment		195228 VA	175705 VA		175705 VA					
A	Appliance										
Notes:											

Branch Panel: L1A																
Location: RECEIVING 116						Volts: 120/208 Wye			A.I.C. Rating: 35,000							
Supply From: T-L1A						Phases: 3			Mains Type: MCB							
Mounting: Surface						Wires: 4			Bus Rating: 400 A							
Enclosure: Type 1									MCB Rating: 400 A							
CKT	Circuit Description	Load Class	Trip	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip	Load Class	Circuit Description	CKT	
1	LTG: LIBRARY LETTERING	L	20 A	1	1130	1080					1	20 A	R	REC: 109 DRIVE-UP WINDOW	2	
3	REC: 115, 116	R	20 A	1			1260	900			1	20 A	R	REC: 109	4	
5	REC: 115 WH-1	R	20 A	1					180	1260	1	20 A	R	REC: 109, 143E	6	
7	RP-1	E	20 A	1	180	720					1	20 A	R	REC: 109 ISLAND	8	
9	REC: 108	R	20 A	1			1260	1080			1	20 A	R	REC: 109, 112, 113	10	
11	REC: 110	R	20 A	1					1080	1080	1	20 A	R	REC: 109, 111, 143F	12	
13	REC: 102, 103, 104, 105, 106	R	20 A	1	1260	1200					1	20 A	R	REC: 111 REFRIGERATOR	14	
15	REC: 102 TV EAST	R	20 A	1			360	1200			1	20 A	R	REC: 111 COFFEE MAKER	16	
17	REC: 102 PARTIAL WALL A1	R	20 A	1					540	900	1	20 A	R	REC: 111 GARBAGE DISPOSAL	18	
19	REC: 102 PARTIAL WALL A2	R	20 A	1	540	1860					1	20 A	R	REC: 111 ABOVE COUNTER	20	
21	REC: 102 PARTIAL WALL B1	R	20 A	1			360	1080			1	20 A	E	J-BOX: RR PWR ACCESSORIES	22	
23	REC: 102 PARTIAL WALL B2	R	20 A	1					180	1400	1	20 A	E	J-BOX: 104 HAND DRYER 1 (**)	24	
25	REC: 102 PARTIAL WALL B3	R	20 A	1	1800	1400					1	20 A	E	J-BOX: 104 HAND DRYER 2 (**)	26	
27	REC: 102 PARTIAL WALL B4	R	20 A	1			180	1400			1	20 A	E	J-BOX: 105 HAND DRYER 1 (**)	28	
29	REC: EWC-1 (*)	E	20 A	1					1200	1400	1	20 A	E	J-BOX: 105 HAND DRYER 2 (**)	30	
31	REC: SODA VENDING (*)	R	20 A	1	1200	720					1	20 A	E	J-BOX: OPEN AREA SE SHADES	32	
33	REC: SNACK VENDING (*)	R	20 A	1			1200	900			1	20 A	E	J-BOX: 114 SECURITY PANEL	34	
35	REC: MISC VENDING (*)	R	20 A	1					1200	900	1	20 A	E	J-BOX: 114 BMS	36	
37	REC: 118F-1, 118F-2 GENERAL	R	20 A	1	900	720					1	20 A	R	REC: 117 PARTIAL WALL	38	
39	REC: 118E-1 FLR BOXES	R	20 A	1			1080	1440			1	20 A	R	REC: 117 CIRC DESK	40	
41	REC: 118D-2, 118E-2	R	20 A	1					1440	720	1	20 A	R	REC: 114	42	
43	PANELBOARD: L1B	R, E	125 A	3	12820	720					1	20 A	R	REC: 114	44	
45						14900	1040					R	REC: 114 UPS TWIST-LOCK	46		
47							10600	1040	2	30 A	R		48			
49													50			
51	FC-13A/B/14	E	15 A	2	700	740		740			2	15 A	E	FC-9/10/11/12	52	
53	J-BOX: 116 FACP (**)	E	20 A	1					1200	766	1	20 A	L	LTG: EXTERIOR WOOD WALL	54	
55	FC-19/20	E	15 A	2	700	950									56	
57						700	950				2	15 A	E	FC-15/21A/21B	58	
59	SPARE	--	20 A	1					0	84	1	20 A	L	LTG: 102 PENDANTS	60	
61	SPARE	--	20 A	1	0	0					1	20 A	--	SPARE	62	
63	SPARE	--	20 A	1			0	0			1	20 A	--	SPARE	64	
65	SPARE	--	20 A	1					0	0	1	20 A	--	SPARE	66	
67	BUSSED SPACE	--	--	--	0	0					--	--	--	BUSSED SPACE	68	
69	BUSSED SPACE	--	--	--			0	0			--	--	--	BUSSED SPACE	70	
71	BUSSED SPACE	--	--	--					0	0	--	--	--	BUSSED SPACE	72	
73	BUSSED SPACE	--	--	--	0	0					--	--	--	BUSSED SPACE	74	
75	BUSSED SPACE	--	--	--			0	0			--	--	--	BUSSED SPACE	76	
77	BUSSED SPACE	--	--	--					0	0	--	--	--	BUSSED SPACE	78	
79	BUSSED SPACE	--	--	--	0	0					--	--	--	BUSSED SPACE	80	
81	BUSSED SPACE	--	--	--			0	0			--	--	--	BUSSED SPACE	82	
83	BUSSED SPACE	--	--	--					0	0	--	--	--	BUSSED SPACE	84	
Total Load:					31340 VA		32730 VA		27170 VA							
Total Amps:					267 A		278 A		226 A							
Phase Balance					96 % A-B		83 % B-C		87 % C-A							
Load Classification			Connected Load		Demand Factor		Estimated Demand			Panel Totals						
L	Lighting		1980 VA		125.00%		2475 VA									
C	Continuous									Total Conn. Load: 91240 VA						
R	Receptacle		52240 VA		59.57%		31120 VA			Total Est. Demand: 66913 VA						
M	Motor									Total Conn.: 253 A						
LM	Largest Motor									Total Est. Demand: 186 A						
E	Equipment		37020 VA		90.00%		33318 VA			Spare Capacity: 214 A						
A	Appliance															
Notes:																
(*) GFCI BREAKER																
(**) LOCKABLE BREAKER																

Branch Panel: H1A															
Location: RECEIVING 116						Volts: 480/277 Wye			A.I.C. Rating: 35,000						
Supply From: MDP						Phases: 3			Mains Type: MCB						
Mounting: Surface						Wires: 4			Bus Rating: 125 A						
Enclosure: Type 1									MCB Rating: 125 A						
CKT	Circuit Description	Load Class	Trip	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip	Load Class	Circuit Description	CKT
1	LTG: EXTERIOR NORTHEAST	L	20 A	1	440	441					1	20 A	L	LTG: EXTERIOR	2
3	SPARE	--	20 A	1			0	640			1	20 A	L	LTG: 120-125	4
5	LTG: SITE PATHWAY	L	20 A	1					1877	676	1	20 A	L	LTG: CORRIDOR	6
7	LTG: 101, 102, 103, 106, 107	L	20 A	1	1862	2318					1	20 A	L	LTG: OPEN 118A & 118B-1	8
9	LTG: 119	L	20 A	1			1227	1477			1	20 A	L	LTG: 104, 105, 108, 109, 111-115	10
11	LTG: OPEN 118E-2 & 118F-2	L	20 A	1					897	2200	1	20 A	L	LTG: OPEN AREA 118F-1	12
13	LTG: OPEN AREA 118C-1	L	20 A	1	1760	1420					1	20 A	L	LTG: OPEN 117 & 118D-1	14
15	LTG: OPEN AREA 118E-1	L	20 A	1			2200	1538			1	20 A	L	LTG: OPEN 118B-2 & 118C-2	16
17	IWH-1 (**)	E	20 A	1					4100	1359	1	20 A	L	LTG: OPEN AREA 118D-2	18
19	SPARE	--	20 A	1	0	0					1	20 A	--	SPARE	20
21	SPARE	--	20 A	1			0	0			1	20 A	--	SPARE	22
23	SPARE	--	20 A	1					0	0	1	20 A	--	SPARE	24
25	BUSSED SPACE	--	--	--	0	0					--	--	--	BUSSED SPACE	26
27	BUSSED SPACE	--	--	--			0	0			--	--	--	BUSSED SPACE	28
29	BUSSED SPACE	--	--	--					0	0	--	--	--	BUSSED SPACE	30
31	BUSSED SPACE	--	--	--	0	0					--	--	--	BUSSED SPACE	32
33	BUSSED SPACE	--	--	--			0	0			--	--	--	BUSSED SPACE	34
35	BUSSED SPACE	--	--	--					0	0	--	--	--	BUSSED SPACE	36
37	BUSSED SPACE	--	--	--	0	0					--	--	--	BUSSED SPACE	38
39	BUSSED SPACE	--	--	--			0	0			--	--	--	BUSSED SPACE	40
41	BUSSED SPACE	--	--	--					0	0	--	--	--	BUSSED SPACE	42
Total Load:					8241 VA		7082 VA		11109 VA						
Total Amps:					30 A		26 A		41 A						
Phase Balance					86 % A-B		64 % B-C		74 % C-A						
Load Classification			Connected Load			Demand Factor		Estimated Demand			Panel Totals				
L	Lighting		22332 VA			125.00%		27915 VA							
C	Continuous										Total Conn. Load: 26432 VA				
R	Receptacle										Total Est. Demand: 31605 VA				
M	Motor										Total Conn.: 32 A				
LM	Largest Motor										Total Est. Demand: 38 A				
E	Equipment		4100 VA			90.00%		3690 VA			Spare Capacity: 87 A				
A	Appliance														
Notes:															
(*) GFCI BREAKER															
(**) LOCKABLE BREAKER															

SITE LEGEND (THIS SHEET)	
	POLE-MOUNTED LUMINAIRE
	LANDSCAPE FLOOD LUMINAIRE
	KEYNOTE
	JUNCTION BOX



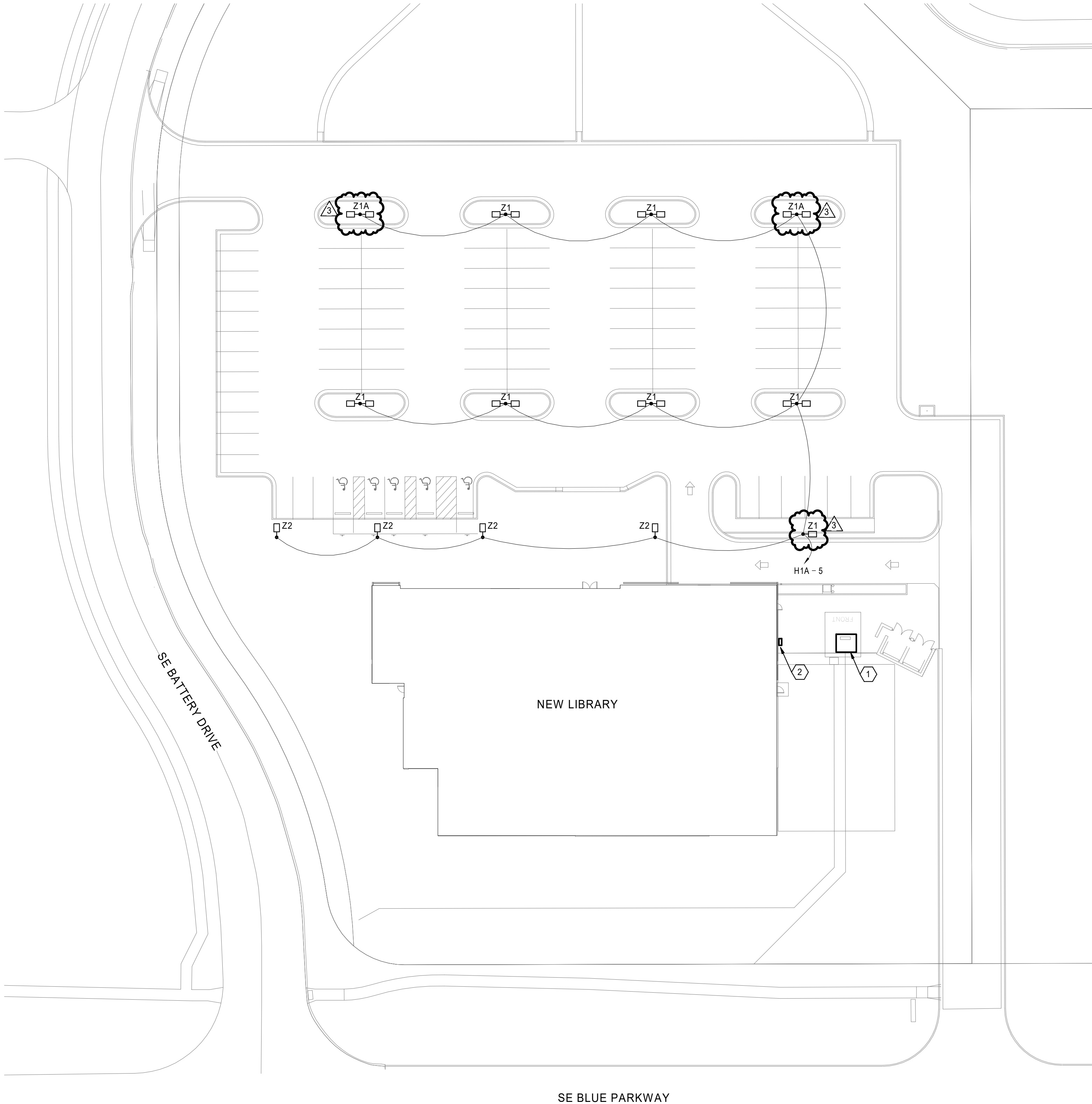
A3 TYPICAL SITE POLE FIXTURE DETAIL
N.T.S.

SITE LUMINAIRE SCHEDULE

FIXTURE TYPE	DESCRIPTION	MANUFACTURER* OR APPROVED EQUIVALENT	MODEL	LAMPS (QTY) TYPE	LAMP CCT	LAMP CRI	INPUT VA	VOLTAGE	SCHEDULED NOTES
Z1	33" LONG x 13" WIDE x 7" TALL, LED SITE LUMINAIRE. IP65 RATED, UL WET LOCATION LISTED. TYPE IV DISTRIBUTION, FULL CUTOFF (NO UPLIGHT). TWO HEADS MOUNTED ON POLE, 180 DEGREES APART. PROVIDE 20'-0" SQUARE POLE AND MOUNTING COMPATIBLE WITH FIXTURE. ARCHITECT TO SELECT FINISH.	LITHONIA* (HUBBELL, MCGRAW-EDISON)	DSX1 LED P3 30K T4M MVOLT SPA	LED	3000 K	70	102 VA	277 V	
Z1A	33" LONG x 13" WIDE x 7" TALL, LED SITE LUMINAIRE. IP65 RATED, UL WET LOCATION LISTED. TYPE IV DISTRIBUTION, FULL CUTOFF (NO UPLIGHT). TWO HEADS MOUNTED ON POLE, 180 DEGREES APART. PROVIDE 15'-0" SQUARE POLE AND MOUNTING COMPATIBLE WITH FIXTURE. ARCHITECT TO SELECT FINISH.	LITHONIA* (HUBBELL, MCGRAW-EDISON)	DSX1 LED P3 30K T4M MVOLT SPA	LED	3000 K	70	102 VA	277 V	
Z2	26" LONG x 13" WIDE x 7" TALL, LED SITE LUMINAIRE. IP65 RATED, UL WET LOCATION LISTED. TYPE III DISTRIBUTION, FULL CUTOFF (NO UPLIGHT). SINGLE HEAD MOUNTED ON POLE. PROVIDE 12'-0" SQUARE POLE AND MOUNTING COMPATIBLE WITH FIXTURE. ARCHITECT TO SELECT FINISH.	LITHONIA* (HUBBELL, MCGRAW-EDISON)	DSX0 LED P2 30K T3M MVOLT SPA	LED	3000 K	70	49 VA	277 V	

- ### GENERAL NOTES (THIS SHEET)
- SEE SHEET E001 FOR LEGEND AND ADDITIONAL GENERAL NOTES.
 - COORDINATE WITH ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR LOCATIONS AND MOUNTING HEIGHTS OF ALL LUMINAIRES. ARCHITECTURAL DRAWINGS AND ELEVATIONS SHALL TAKE PRECEDENCE WHERE ELECTRICAL DRAWINGS VARY FROM ARCHITECTURAL.
 - USE #10 AWG COPPER WIRE FOR ALL SITE WIRING, UNLESS NOTED OTHERWISE.
 - REFER TO LIGHTING PLAN FOR BUILDING MOUNTED EXTERIOR LUMINAIRES.

- ### KEY NOTES (THIS SHEET)
- NEW PAD-MOUNTED UTILITY TRANSFORMER BY KCP&L. MOUNT ON KCP&L APPROVED CONCRETE EQUIPMENT PAD, IN ACCORDANCE WITH ALL KCP&L CLEARANCE AND ACCESSIBILITY REQUIREMENTS. COORDINATE LOCATION WITH CIVIL DRAWINGS.
 - C.T. CABINET RATED 600A, NEMA 3R ENCLOSURE, AND UTILITY ELECTRIC METER. INSTALL PER KCP&L REQUIREMENTS.



A1 ELECTRICAL SITE PLAN
1" = 30'-0"



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SPECIAL NOTICES

In the event the client consents to, allows, authorizes or approves of changes to any plans, specifications or other construction documents, and these changes are not approved in writing by the design professional, the client recognizes that such changes and the results thereof are not the responsibility of the design professional. Therefore, the client agrees to release the design professional from any liability arising from the construction, use or result of such changes. In addition, the client agrees to the fullest extent permitted by law, to indemnify and hold the design professional harmless from any damage, liability or cost (including reasonable attorney's fees and costs of defense) arising from such changes.

The personal seal of the registered Architect or Engineer shall be the legal equivalent of his signature whenever & wherever used, and the owner of the seal shall authenticate this sheet and the specification sections pertaining to this sheet. Responsibility shall be disclaimed for all other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural project.

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PACKAGE
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Engineer of Record
STATE OF MISSOURI
R. DAVID HARTZLER
NUMBER B-33167
2/12/19

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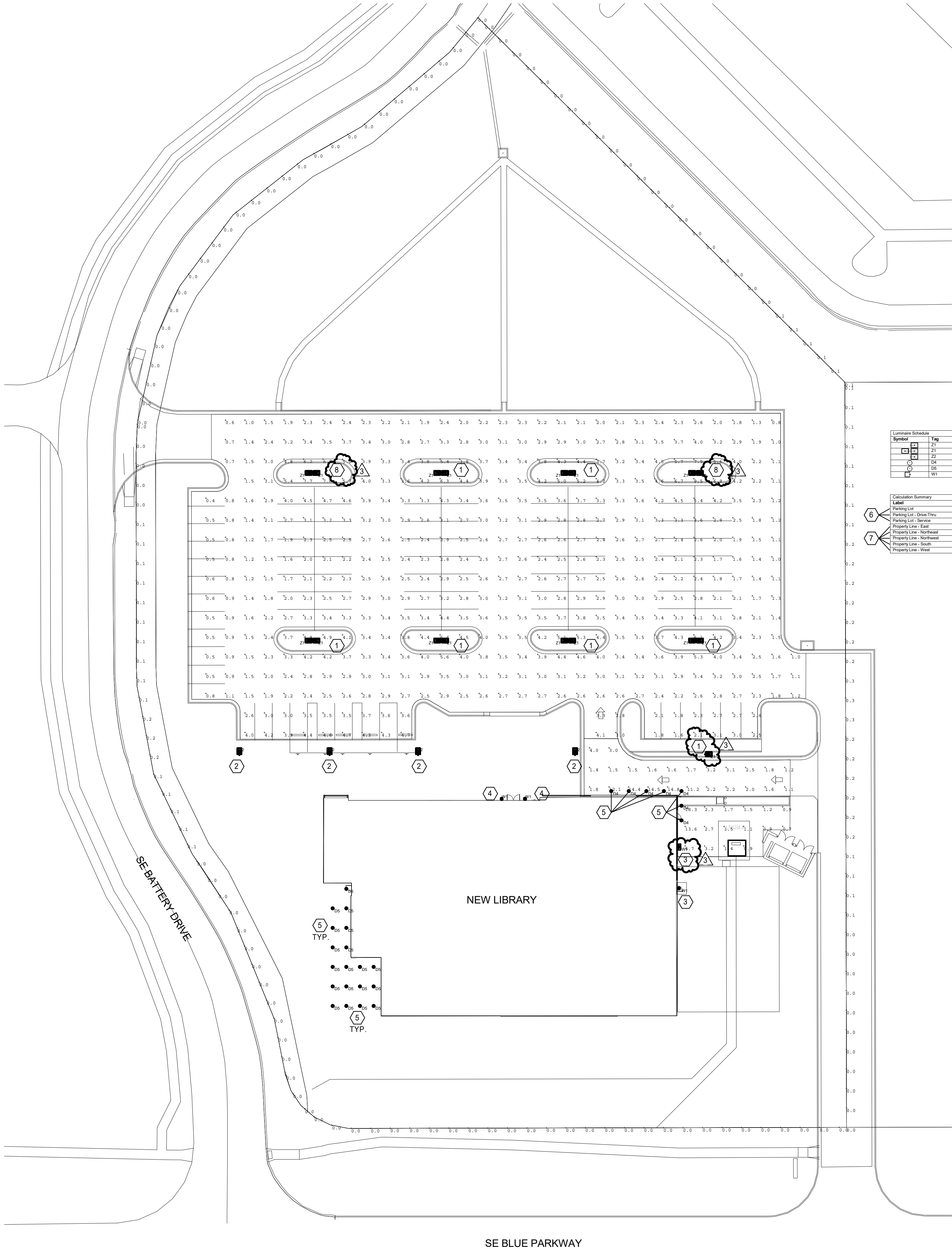
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M.E. GROUP Missouri State Certificate of Authority # 2002002733		
Revision No.	Description	Date
3	ASI 03	2019-02-12

Project No.	Date	Drawn
1013-004	01-14-2019	AP

Drawing No
ES101
ELECTRICAL SITE PLAN

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GENERAL NOTES (THIS SHEET)

- SEE SHEET ES101 FOR LEGEND AND ADDITIONAL GENERAL NOTES.
- COORDINATE WITH ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR LOCATIONS AND MOUNTING HEIGHTS OF ALL LUMINAIRES. ARCHITECTURAL DRAWINGS AND ELEVATIONS SHALL TAKE PRECEDENCE WHERE ELECTRICAL DRAWINGS VARY FROM ARCHITECTURAL.
- PER IESNA LIGHTING HANDBOOK (9TH ED.), EXCERPTS FROM FIGURE 22-21: "FOR THE PURPOSE OF PROPERTY SECURITY, IT IS DESIRABLE THAT THE MINIMUM (LOW POINT) VALUE NOT BE LESS THAN 0.1 HORIZONTAL-FOOTCANDLES."

KEY NOTES (X) (THIS SHEET)

- POLE HEIGHT FOR TYPE Z1 FIXTURES IS 20'-0".
- POLE HEIGHT FOR TYPE Z2 FIXTURES IS 12'-0".
- WALL MOUNT FIXTURE AT 10'-0" AFF.
- WALL MOUNT FIXTURE AT 14'-0" AFF.
- MOUNT DOWNLIGHT FIXTURE TYPES D4 AND D5 RECESSED IN CANOPY OVERHAND DIRECTLY ABOVE. SEE ARCHITECTURAL ELEVATION FOR HEIGHTS.
- THE CALCULATED MINIMUM ILLUMINANCE VALUES (Min) FOR THE LISTED ZONES EXCEEDS THE IES RECOMMENDATION IN ALL ACTIVELY-LIT AREAS. SIMILARLY, THE CALCULATED AVERAGE ILLUMINANCE VALUES (Avg) MEETS OR EXCEEDS THE IES RECOMMENDED VALUES.
- THE CALCULATED MAXIMUM ILLUMINANCE VALUES (Max) AT THE SITE PROPERTY LINES DO NOT EXCEED 0.5 FOOTCANDLES (FC), PER THE REQUIREMENTS OF LOCAL DESIGN CRITERIA.
- POLE HEIGHT FOR TYPE Z1A FIXTURES IS 15'-0".

Luminaire Schedule						
Symbol	Tag	Qty	Arrangement	LLF	Lum. Lumens	Description
Z1	1	1	SINGLE	0.80	11425	DSX1 LED FS SW 7'AM MAJOLY
Z1	8	8	BACK-2-BACK	0.80	11425	DSX1 LED FS SW 7'AM MAJOLY
Z2	4	4	SINGLE	0.80	5416	DSX1 LED FS SW 7'AM MAJOLY
D4	7	7	SINGLE	0.80	1901	CANONICAL SMOKEWIZO C-RELOC
D5	19	19	SINGLE	0.80	1901	CANONICAL SMOKEWIZO C-RELOC
W1	4	4	POLE	0.80	7324	FWIS SWL 450-WATT 24' LUM

Calculation Summary									
Label	CalcType	Units	Avg	Max	Min	AspMin	MaxMin		
Parking Lot	Illuminance	FC	1.9	1.5	0.4	7.5	23.9		
Parking Lot - Drive Thru	Illuminance	FC	4.4	14.8	1.1	4.0	13.3		
Parking Lot - Service	Illuminance	FC	3.7	16.3	0.7	5.2	16.1		
Property Line - East	Illuminance	FC	0.1	0.3	0.0	N/A	N/A		
Property Line - Northwest	Illuminance	FC	0.0	0.1	0.0	N/A	N/A		
Property Line - Northwest	Illuminance	FC	0.0	0.0	0.0	N/A	N/A		
Property Line - South	Illuminance	FC	0.0	0.0	0.0	N/A	N/A		
Property Line - West	Illuminance	FC	0.1	0.2	0.0	N/A	N/A		

1 PHOTOMETRIC PLAN
1" = 30'-0"

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Revision No.	Description	Date
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Project No.	Date	Drawn
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ES102
PHOTOMETRIC PLAN