

ST. BERNARD PARISH SHERIFF'S SUBSTATION 47

4700 PARIS ROAD
CHALMETTE, LA 70043

OWNER

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Perez.

ARCHITECTURE
ENGINEERING
PLANNING
INTERIORS
LANDSCAPE
GRAPHICS

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St Bernard Parish Sheriff's Substation #47
4700 PARIS ROAD CHALMETTE, LA 70043

CONSTRUCTION DOCUMENTS

DATE: 12/19/13
PROJECT NO.: 01-09-1082-02

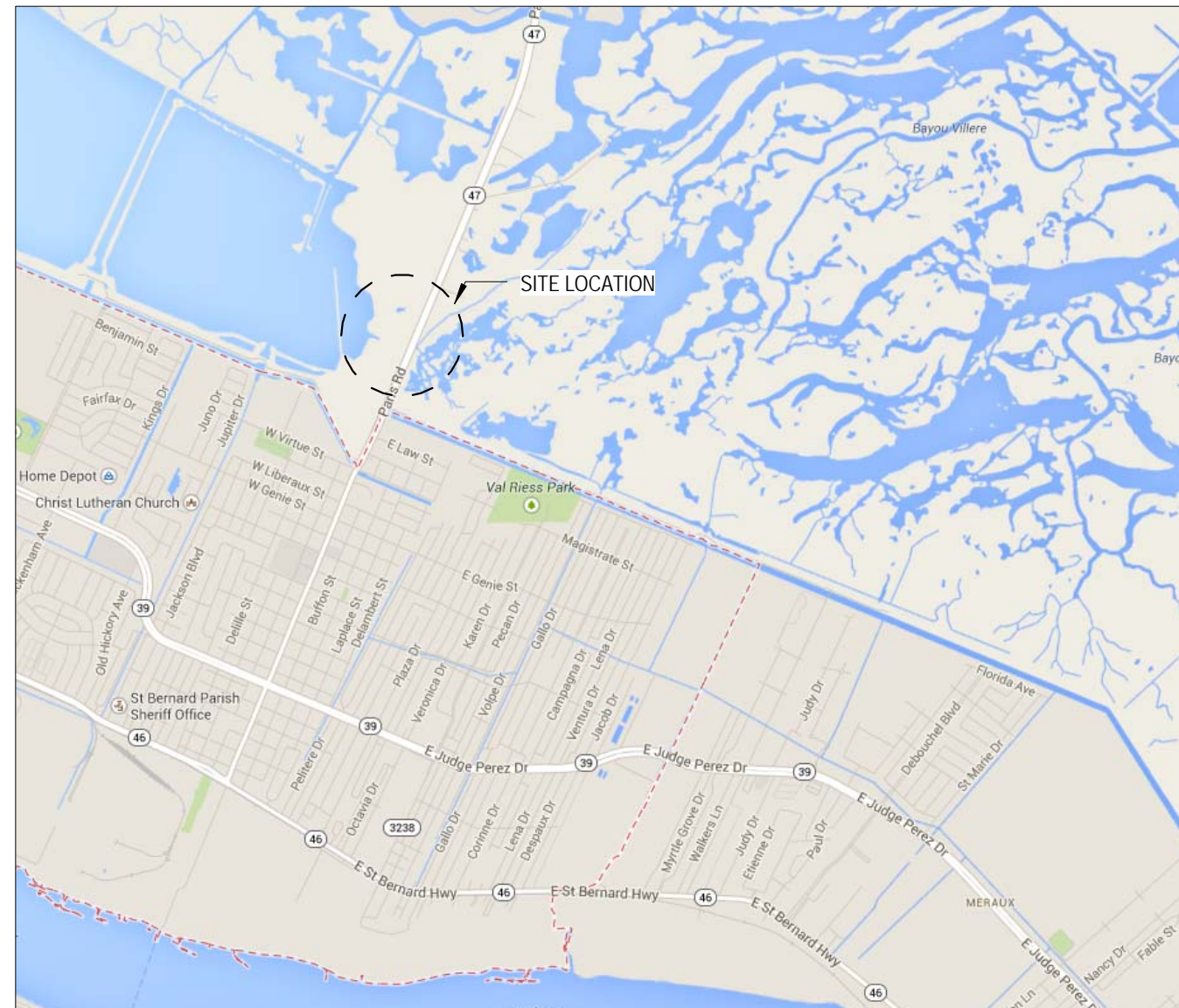
REVISIONS:		
No.	Date	Description

DRAWN BY: ERIVERS
CHECKED BY: JCROWLEY

SHEET TITLE

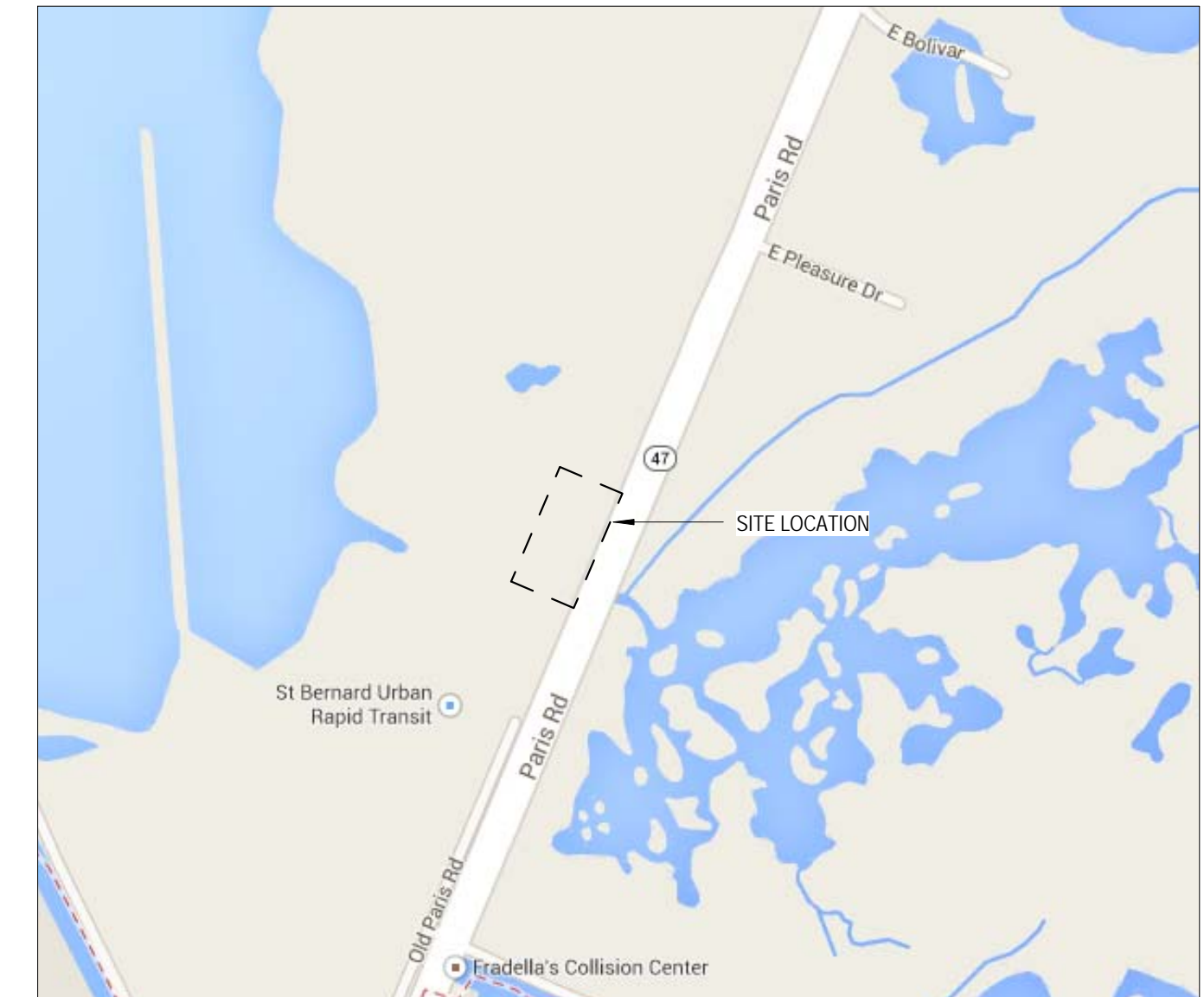
COVER SHEET
SHEET NO

G0.00

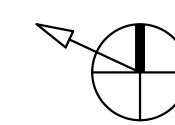


ST. BERNARD PARISH SHERIFF'S SUBSTATION 47

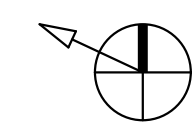
PARIS RD
ARABI, LA, 70032



SITE VICINITY PLAN



PROJECT LOCATION



DRAWING INDEX

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01 GENERAL SHEETS	
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G0.20	TYPICAL MOUNTING HEIGHTS AND A.D.A INFORMATION
02 SITE PLANS	
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AS0.0	ARCHITECTURAL SITE PLAN
AS0.1	SITE PLAN & ROOF PLAN
04 CIVIL	
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C2.0	CIVIL DETAILS
C3.0	CIVIL DETAILS
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A2.00	DOOR/ FINISH SCHEDULE AND DETAILS
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A3.00	BUILDING ELEVATIONS
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A4.20	CANOPY DETAILS
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M200	HVAC LEVEL 1 PLAN
09 PLUMBING	
P0.00	PLUMBING LEGEND SHEET INDEX & GENERAL NOTES
P0.01	PLUMBING EQUIPMENT SCHEDULES
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10 ELECTRICAL	
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ES1.00	SITE PLAN

ABBREVIATIONS

A.F.F.	ABOVE FINISH FLOOR	J.B.	JUNCTION BOX
A.F.G.	ABOVE FINISH GRADE	JT.	JOINT
A.F.R.	ABOVE FINISH ROOF	LM.	LIMESTONE
ACT	ACOUSTICAL CEILING TILE	LT. WT.	LIGHT WEIGHT
AD	AREA DRAIN	MANUF.	MANUFACTURER
ADJ.	ADJUSTABLE	MAX	MAXIMUM
ALUM.	ALUMINUM	MB	MODIFIED BITUMEN
APPROX.	APPROXIMATELY	MBR	MODIFIED BITUMEN ROOFING
ASB	ASBESTOS	MECH.	MECHANICAL
ATTEN.	ATTENUATION	MET.	METAL
B	BRICK	MFR.	MANUFACTURER
BD.	BOARD	MFR.	METAL ROOF FINISH
BLDG.	BUILDING	MFL	METAL
BLK.	BLOCK	MTL.	METAL
BM.	BEAM	N.I.C.	NOT IN CONTRACT
BOL.	BOLLARD	NOM.	NOMINAL
BOT.	BOTTOM	NTS.	NOT TO SCALE
C.B.	CATCH BASIN	O.C.	ON CENTER
C.G.	CORNER GUARD	O.D.	OUTSIDE DIAMETER
C.J.	CONTROL JOINT	OD	OVERFLOW DRAIN
C.M.U.	CONCRETE MASONRY UNIT	OP.	OPPOSITE HAND
C.O.	CLEAN OUT	ORP.	OPENING
C.R.	COLD ROLLED	P.	PAINT
CEM.	CEMENT	PARTN.	PARTITION
CLG.	CEILING	PLAS.	PLASTER
COL.	COLUMN	PLYWD.	PLYWOOD
CONC.	CONCRETE	Q.T.	QUARRY TILE
CONST.	CONSTRUCTION	RD	ROOF DRAIN
CONT.	CONTINUOUS	R.O.	ROUGH OPENING
DBL.	DOUBLE	RAD.	RADIUS
DEM.	DEMOLITION	RCP.	REFLECTED CEILING PLAN
DET.	DETAIL	REF.	REFERENCE
DIA.	DIAMETER	REC.	RECESSED
DIAG.	DIAGONAL	REINF.	REINFORCED
DIM.	DIMENSION	REQD.	REQUIRED
DISP.	DISPENSER	RET.	RETAINING
DN.	DOWN	RM.	ROOM
DWG.	DRAWING	S.B.S.	STYRENE BUTADIENE STYRENE
E.J.	EXPANSION JOINT	S.S.	STAINLESS STEEL
E.W.	EACH WAY	SCHED.	SCHEDULE
E.W.C.	ELECTRIC WATER COOLER	SECT.	SECTION
EA.	EACH	SHUT.	SHUTTER
EL.	ELEVATION	SHT.	SHEET
ELECT.	ELECTRICAL	SIM	SIMILAR
ENAM.	ENAMEL	SLOPE	SLOPE
EOS.	EDGE OF SLAB	SI.	SPECIFICATIONS
EQ.	EQUAL	SQ.	SQUARE
EQUIP.	EQUIPMENT	STC	SOUND TRANSMISSION CLASS
EXIST.	EXISTING	STD.	STANDARD
EXP.	EXPANSION	STL.	STEEL
EXT.	EXTERIOR	STRUC.	STRUCTURAL
F.H.	FLAT HEAD	SUSP.	SUSPENDED
F.R.	FIRE RESISTANCE	T.	TREADS
FD	FLOOR DRAIN	T.O.C.	TOP OF CONCRETE
FDN.	FOUNDATION	T.O.S.	TOP OF STEEL
FEC.	FIRE EXTINGUISHER CABINET	TAB.	TOP AND BOTTOM
FIN.	FINISH	TC	TERRA COTTA
FLR.	FLOOR	THRU	THROUGH
FLUOR.	FLUORESCENT	TYP.	TYPICAL
FOC.	FACE OF CONCRETE	U.O.N.	UNLESS OTHERWISE NOTED
FRM.	FRAME	U.N.O.	UNLESS NOTED OTHERWISE
FRP.	FIBERGLASS REINFORCED PANEL	V.I.F.	VERIFY IN FIELD
FT.	FOOT	V.C.P.	VERIFIED CLAY PIPE
G.I.	GALVANIZED IRON	V.V.M.	VERIFY WITH MANUFACTURER
GA.	GALVE	V.V.T.	VINYL COMPOSITION TILE
GALV.	GALVANIZED	VERT.	VERTICAL
GEN.	GENERAL	W.	WITH
GYP.	GYP-SUM	W.F.	WIDE FLANGE
GYP. BD.	GYP-SUM BOARD	W.P.	WATERPROOF
GWB.	GYP-SUM WALL BOARD	W.W.F.	WELDED WIRE FABRIC
H.M.	HOLLOW METAL	WTR.RES.	WATER RESISTANT
H.R.	HANDRAIL	WD.	WOOD
HORIZ.	HORIZONTAL	XB	X-BRACING
HT.	HEIGHT		
I.D.	INSIDE DIMENSION		
IN.	INCH		
INSUL.	INSULATION		
INT.	INTERIOR		
INV.	INVERT		

GRAPHICS LEGEND

	DRAWING NUMBER
	DRAWING TITLE
	SCALE
	TRUE NORTH
	PROJECT NORTH
	DRAWING NUMBER
	DIRECTION OF SECTION CUT
	DRAWING NUMBER
	INFORMATION IN CALLOUT
	DRAWING NUMBER
	SHEET NO. WHERE DRAWING APPEARS
	NUMBER REFERENCES ITEMS' LOCATION IN SPECIFICATIONS

PLAN REVIEW DATA

APPLICABLE CODES:	ST. BERNARD PARISH ZONING ORDINANCE						
	2012 ED. OF THE INTERNATIONAL BUILDING CODE (IBC)						
	2012 ED. OF THE INTERNATIONAL MECHANICAL CODE						
	2012 ED. OF THE INTERNATIONAL FUEL GAS CODE (IFGC)						
	2013 LOUISIANA STATE PLUMBING CODE						
	2011 NATIONAL ELECTRIC CODE						
	2012 NFPA 101 LIFE SAFETY CODE (LSC)						
	ENERGY CODE - ASHRAE/IESNA 90.1 - 2004 ED.						
	ADA-AG (JULY 23, 2004 ED.)						
ZONING DISTRICT:	R-1 (ALLOWED USE)						
FLOOD PLAIN INFORMATION:	ZONE B						
OCCUPANCY CLASSIFICATION:	B-BUSINESS						
OCCUPANCY LOAD:	47 PERSONS						
NO. OF EXISTS REQUIRED:	2						
NO. OF EXISTS PROVIDED:	3						
CONSTRUCTION TYPE:	II - B						
BUILDING IS NOT SPRINKLERED							
FIRE ALARM WILL BE PROVIDED IN ACCORDANCE TO IBC 2009 ED. SEC. 907.2							
BUILDING AREA - ACTUAL:							
FLOOR		SUB-TOTAL					
FLOOR 1		4,692 GSF					
TOTALS		4,692 GSF					
BUILDING AREA - ALLOWED: (CONSTRUCTION TYPE II - B)							
FLOOR	AREA PER STORY (ACTUAL)	ALLOWABLE AREA/FRONTAGE (TABLE 503)	SPRINKLER INCREASE	ALLOWABLE AREA/FLOOR	MAX. BLDG. AREA		
FLOOR 1	4,692 GSF						
BUILDING HEIGHT:							
	ALLOWABLE HEIGHT (TABLE 503)	INCREASE FOR SPRINKLING (TABLE 504)	ACTUAL BLDG. HEIGHT (AVERAGE ROOF HT.)				
HEIGHT IN FEET							
HEIGHT IN STORIES							
PARKING:							
TOTAL PARKING SPACES	ACCESSIBLE SPACES	TOTAL ACCESSIBLE					
REQUIRED	PROVIDED	REGULAR	VAN				
20	31	1	1				
TOTALS	20	31	1				
PLUMBING FIXTURES:							
USE	MALE	FEMALE	URINALS	MALE	FEMALE	SHOWERS	DRINKING FOUNTAINS
EXISTING	0	0	0	0	0	0	0
NEW	2	2	1	2	2	2	1
REQUIRED	2	2	0	2	2	0	1
FIRE PROTECTION REQUIREMENTS:							
BLDG. ELEMENT	FIRE PROTECTION REQUIRED (Y/N)	DESIGN NO.					
STRUCTURAL FRAME	0 HR.	N					
EXT. NON-BEARING WALLS	0 HR.	N					
INT. NON-BEARING WALLS	0 HR.	N					
INT. BEARING WALLS	NA	N					
FLOOR CONSTRUCTION	0 HR.	N					
ROOF CONSTRUCTION	0 HR.	N					
CORRIDOR SEPARATION	0 HR.	N					
OCCUPANCY SEPARATION	NA	N					
PARTIFIRE WALL SEPARATION	NA	N					
SMOKE BARRIER SEPARATION	NA	N					
TENANT SEPARATION	NA	N					

GENERAL NOTES:

- GENERAL NOTES SHALL APPLY TO ALL DRAWINGS.
- ALL WORK SHALL COMPLY WITH APPLICABLE CODES, LAWS, AND REGULATORY AGENCY REQUIREMENTS (OSHA, ETC).
- ALL WORK, WHETHER SHOWN OR IMPLIED AND UNLESS SPECIFICALLY QUESTIONED, SHALL BE UNDERSTOOD IN ALL RESPECTS BY THE GENERAL CONTRACTOR WHO WILL BE RESPONSIBLE FOR ANY MISINTERPRETATIONS OR CONSEQUENCES THEREOF.
- NO MATERIAL SUBSTITUTION SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL. THE ARCHITECT WILL CONSIDER MATERIAL CHANGE REQUESTS ON AN INDIVIDUAL BASIS. THE CONTRACTOR SHALL SUBMIT SAMPLES AND MANUFACTURER'S DATA OF PROPOSED SUBSTITUTION ALONG WITH THE SPECIFIED MATERIAL WITH SIMILAR INFORMATION SO THAT THE VARIANCES WILL BE APPARENT. APPROVAL IS REQUIRED BY THE ARCHITECT.
- ALL MANUFACTURED ITEMS SHALL BE SUPPLIED, INSTALLED, CONNECTED, CLEANED, ADJUSTED, AND USED AS DIRECTED BY THE MANUFACTURER'S RECOMMENDATIONS (UNLESS OTHERWISE NOTED). ALL MANUFACTURED ITEMS SHALL BE PROTECTED FROM OTHER ONGOING WORK IN THIS CONTRACT. CONFLICTS BETWEEN THE MANUFACTURER'S INSTRUCTIONS AND ARCHITECTURAL DRAWINGS ARE TO BE BROUGHT TO THE ARCHITECT'S ATTENTION FOR RESOLUTION PRIOR TO BIDDING AND PERFORMING THE WORK.
- PROTECT ALL NEW CONSTRUCTION FROM DAMAGE DURING ALL STAGES OF WORK. THE GENERAL CONTRACTOR SHALL REPLACE ANY NEW CONSTRUCTION DAMAGED DURING THE COURSE OF WORK AT THEIR OWN EXPENSE, TO THE SATISFACTION OF THE ARCHITECT.
- THE SHEETS IN THIS SET ARE COMPLEMENTARY TO EACH OTHER. WHAT IS CALLED FOR BY ONE SHALL BE BINDING AS IF CALLED FOR BY ALL. ALL PARTIES INVOLVED SHALL BECOME FAMILIAR WITH ALL DRAWINGS AND SPECIFICATIONS, NOT SIMPLY THEIR OWN WORK, IN ORDER TO FULLY UNDERSTAND THE CONSTRUCTION. NO SETS SHALL BE BROKEN APART FOR DISTRIBUTION.
- THESE DRAWINGS HAVE BEEN PRODUCED AND CHECKED TO INSURE A REASONABLE DEGREE OF ACCURACY. HOWEVER, THE CONTRACTOR IS RESPONSIBLE FOR CHECKING ALL DIMENSIONS, DETAILS, AND REQUIREMENTS INCLUDED IN THESE DRAWINGS AND SPECIFICATIONS PRIOR TO THE BID SUBMISSION AND COMMENCEMENT OF WORK. DIMENSIONS MAY REQUIRE ADJUSTMENTS AND/OR MODIFICATIONS TO CONFORM WITH EXISTING FIELD CONDITIONS. IN NO CASE SHALL THIS COMPROMISE OR REDUCE THE QUALITY OF THE CONSTRUCTION OR ITS CONFORMANCE TO APPLICABLE CODES, LAWS, OR ORDINANCES. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO PROCEEDING.

CONSTRUCTION NOTES:

- CONTRACTOR TO WARRANTY WORK FOR ONE YEAR FROM ACCEPTANCE OF SUBSTANTIAL COMPLETION.
- ALL WORK DESCRIBED SHALL BE INSTALLED IN ACCORDANCE WITH INDUSTRY STANDARDS.
- THE GENERAL CONTRACTOR SHALL KEEP THE WORK AREA SAFE AND REASONABLY CLEAN AT ALL TIMES.
- EXECUTE WORK IN A CAREFUL AND ORDERLY MANNER, WITH THE LEAST POSSIBLE DISTURBANCE TO THE PUBLIC.
- WORK SHALL NOT BE CONCEALED UNTIL APPROVED BY LOCAL INSPECTORS.
- WHEN JOINING NEW WORK WITH OLD, ENSURE THAT THE JOINING IS SEAMLESS.
- PRIOR TO TYING INTO OR TERMINATING ANY UTILITY, THE CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FROM BUILDING OWNER/MANAGEMENT.
- THE CONTRACTOR AND SUBCONTRACTORS ARE EXPECTED TO VISIT THE SITE PRIOR TO CONSTRUCTION AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR POSSIBLE CONFLICTS WHICH MAY AFFECT THE PROGRESS OF THIS PROJECT.
- THE CONTRACTOR SHALL COORDINATE THE LOCATION OF EQUIPMENT AND MATERIAL STORAGE, INCLUDING (BUT NOT LIMITED TO) DUMPSTER LOCATION, JOBSITE STORAGE, SITE ACCESS, JOB LADDERS, AND ROOF TOP ACCESS. A WORKING STAGING PLAN SHALL BE PROVIDED TO THE OWNER AND ARCHITECT AND UPDATED THROUGHOUT CONSTRUCTION.
- APPROVAL AND LOCATION OF DUMPSTERS FROM BUILDING OWNER SHALL BE REQUIRED IN ADVANCE AND SHALL BE NOTED DURING THE BIDDING PHASE.
- ALL CONSTRUCTION MEANS AND METHODS AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR.

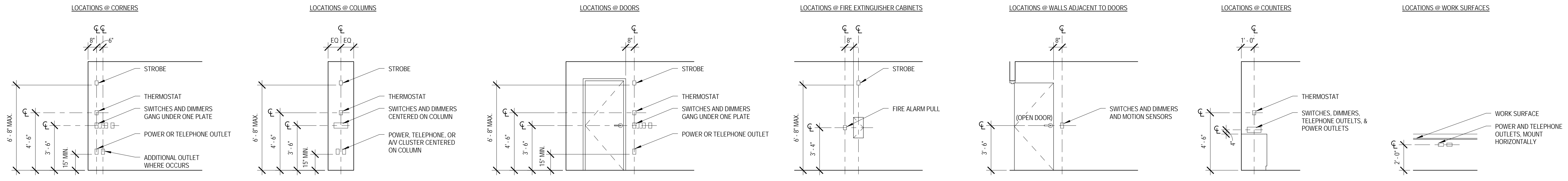


1 OCCUPANCY & EGRESS DIAGRAM
SCALE: 3/32" = 1'-0" REF: 8/A1.10

St Bernard Parish Sheriff's Substation #47
4700 PARIS ROAD CHALMETTE, LA 70043
CONSTRUCTION DOCUMENTS

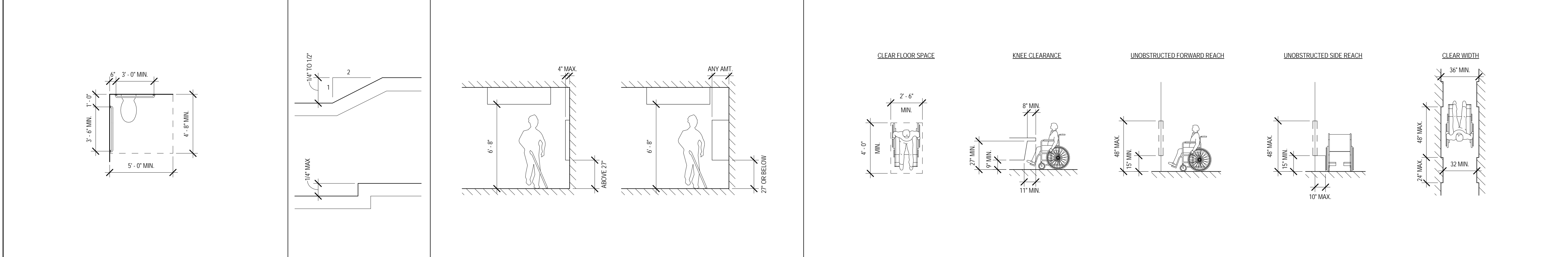
DATE:	12/19/13	
PROJECT NO.:	01-09-1082-02	
REVISIONS:		
No.	Date	Description
DRAWN BY:		ERIVERS
CHECKED BY:		JCROWLEY
SHEET TITLE		

PROJECT DATA & INFORMATION
SHEET NO
GO.10



*NOTE: ALL FIXTURES MOUNTED VERTICALLY UNLESS OTHERWISE NOTED

1 WALL FIXTURE MOUNTING LOCATIONS
SCALE: 1/4" = 1' - 0"

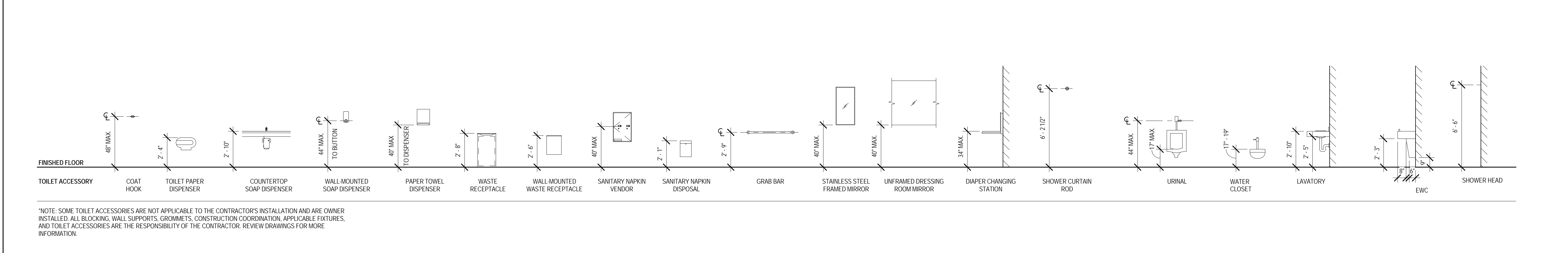


2 W.C. & GRAB BAR LAYOUT
SCALE: 1/4" = 1' - 0"

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

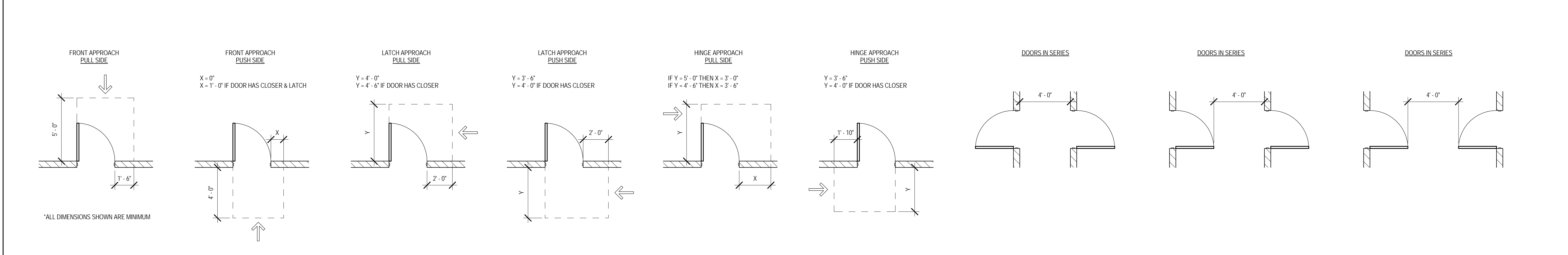
4 PROTRUDING OBJECTS
SCALE: 1/4" = 1' - 0"

5 REACH RANGES
SCALE: 1/4" = 1' - 0"



*NOTE: SOME TOILET ACCESSORIES ARE NOT APPLICABLE TO THE CONTRACTOR'S INSTALLATION AND ARE OWNER INSTALLED. ALL BLOCKING, WALL SUPPORTS, GROMMETS, CONSTRUCTION COORDINATION, APPLICABLE FIXTURES, AND TOILET ACCESSORIES ARE THE RESPONSIBILITY OF THE CONTRACTOR. REVIEW DRAWINGS FOR MORE INFORMATION.

6 TYPICAL RESTROOM MOUNTING ELEVATIONS
SCALE: 1/4" = 1' - 0"



7 TYPICAL DOOR CLEARANCES
SCALE: 1/4" = 1' - 0"

St Bernard Parish Sheriff's Substation #47
4700 PARIS ROAD CHALMETTE, LA 70043

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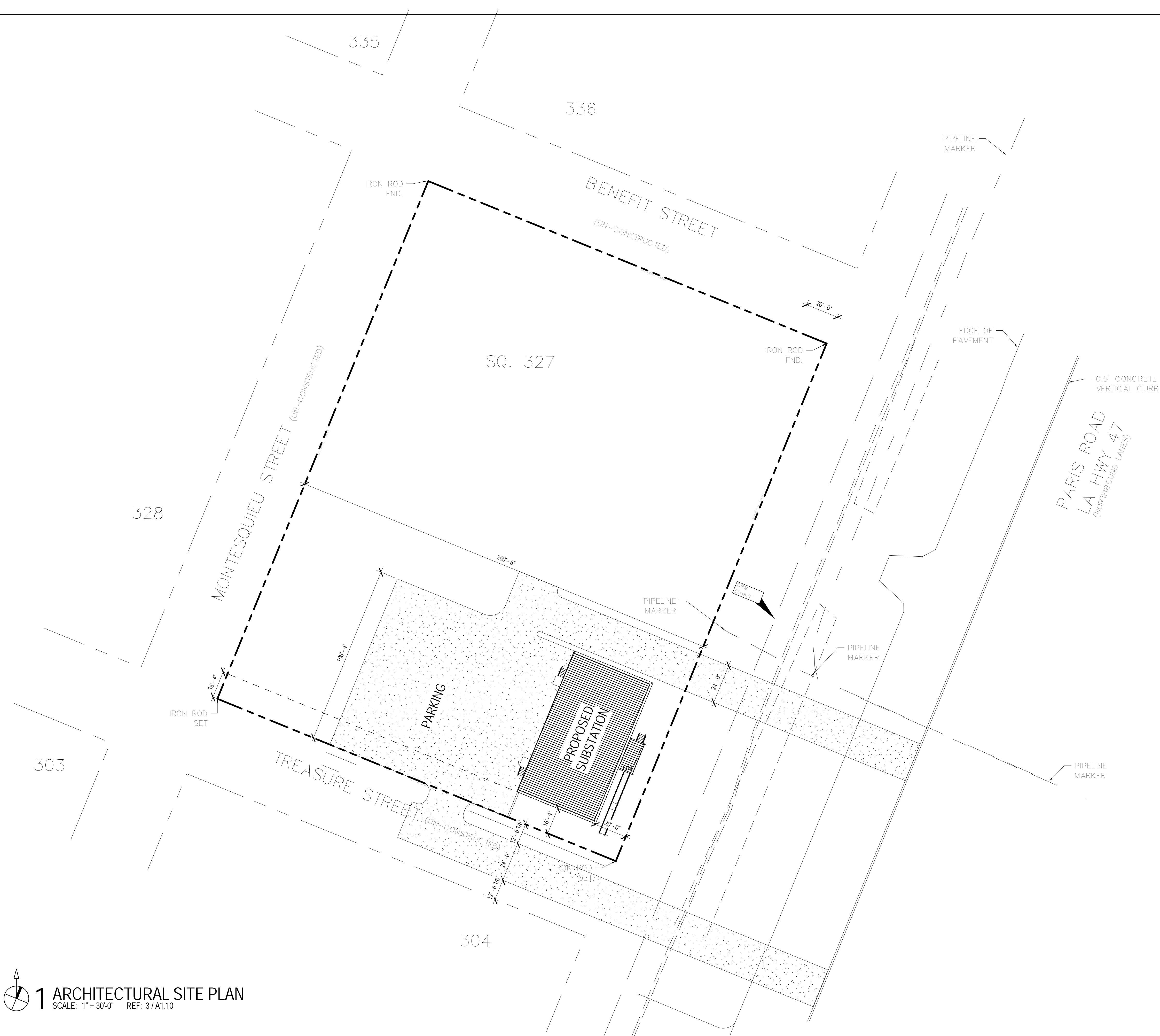
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TYPICAL MOUNTING HEIGHTS AND A.D.A INFORMATION
SHEET NO

GO.20

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4/25/2014 11:34:17 AM H:\PROJ\01-09-1082 - SBPSO Non-Substations, Acadia, LA03 - Paris Road\Drawings\01 Rev\01 Civil Model\Paris Rd - Central.dwg

1 ARCHITECTURAL SITE PLAN
SCALE: 1" = 30'-0" REF: 3/A1.10



Perez.

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St Bernard Parish Sheriff's Substation #47
4700 PARIS ROAD CHALMETTE, LA 70043

CONSTRUCTION DOCUMENTS

DATE: 4-25-14
PROJECT NO.: 01-09-1082-02

REVISIONS:		
No.	Date	Description

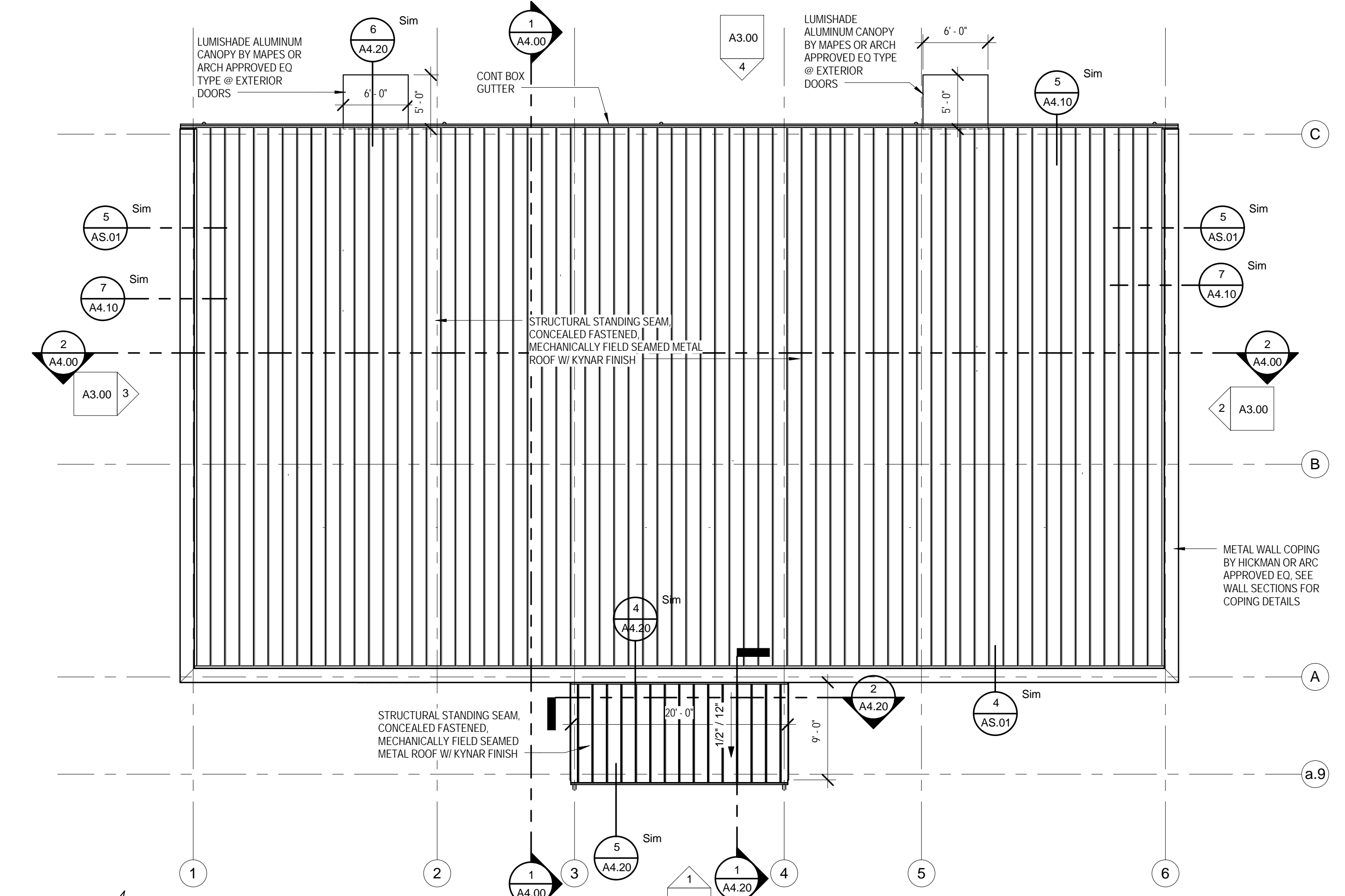
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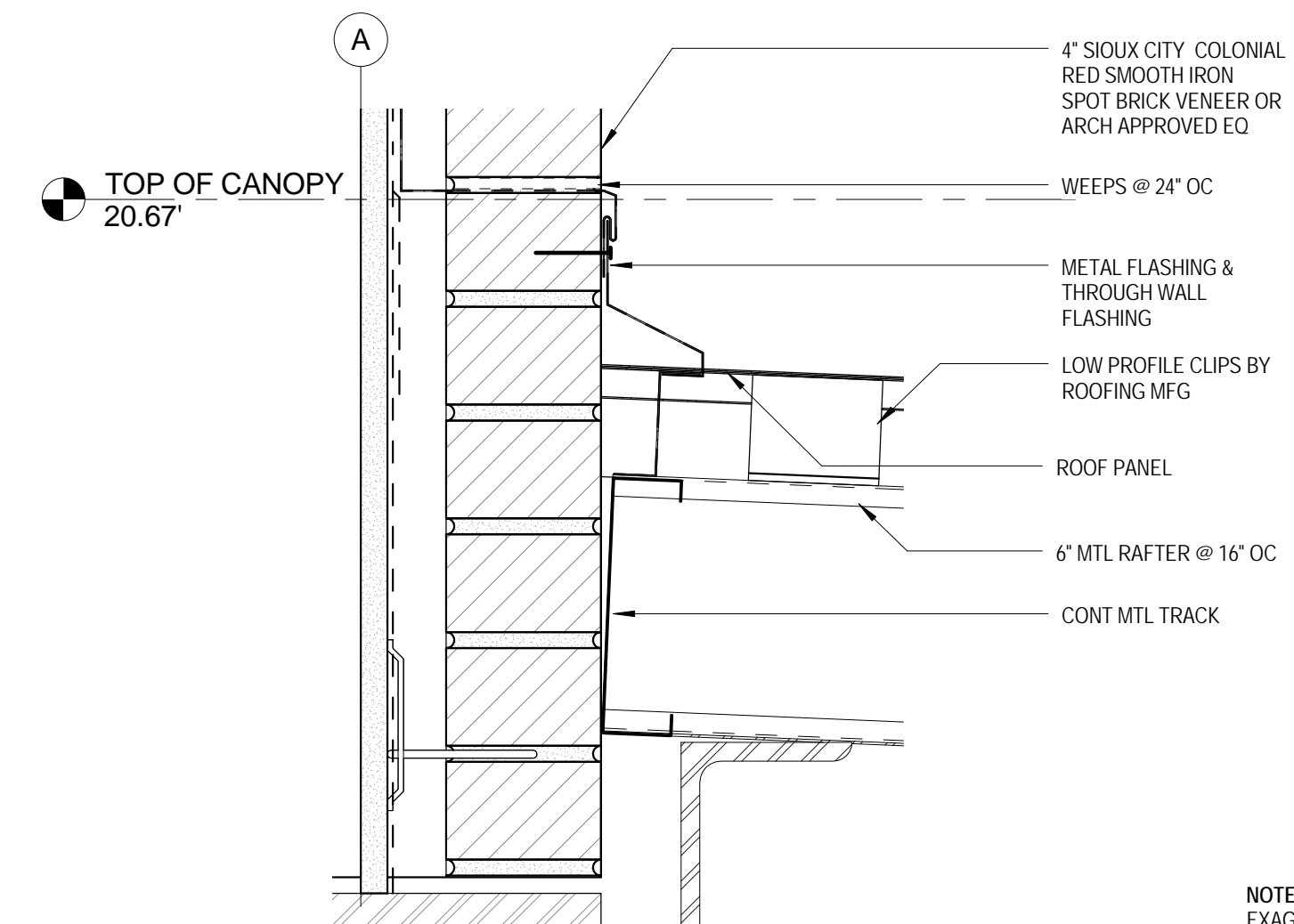
ARCHITECTURAL
SITE PLAN
SHEET NO

AS0.0

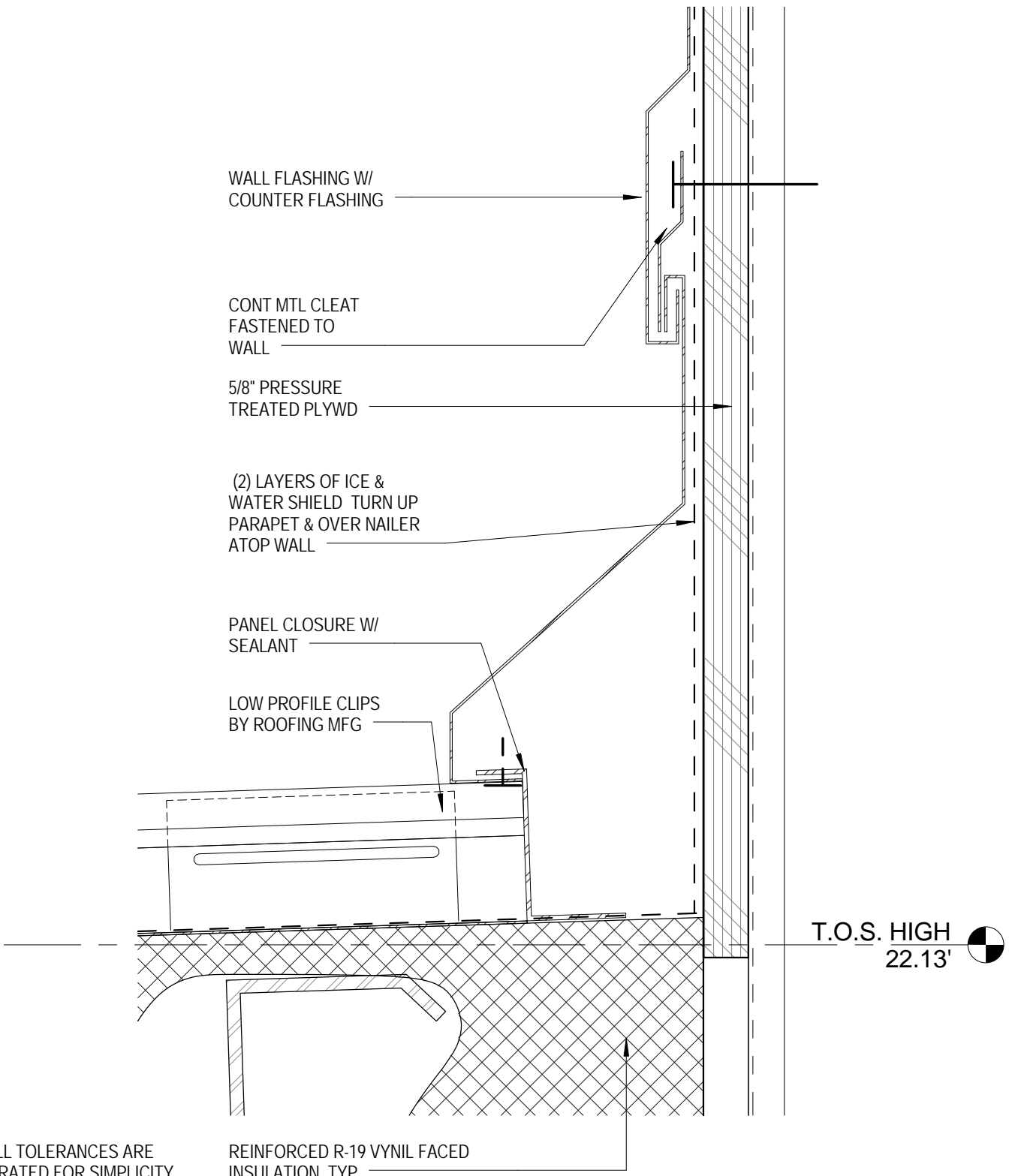
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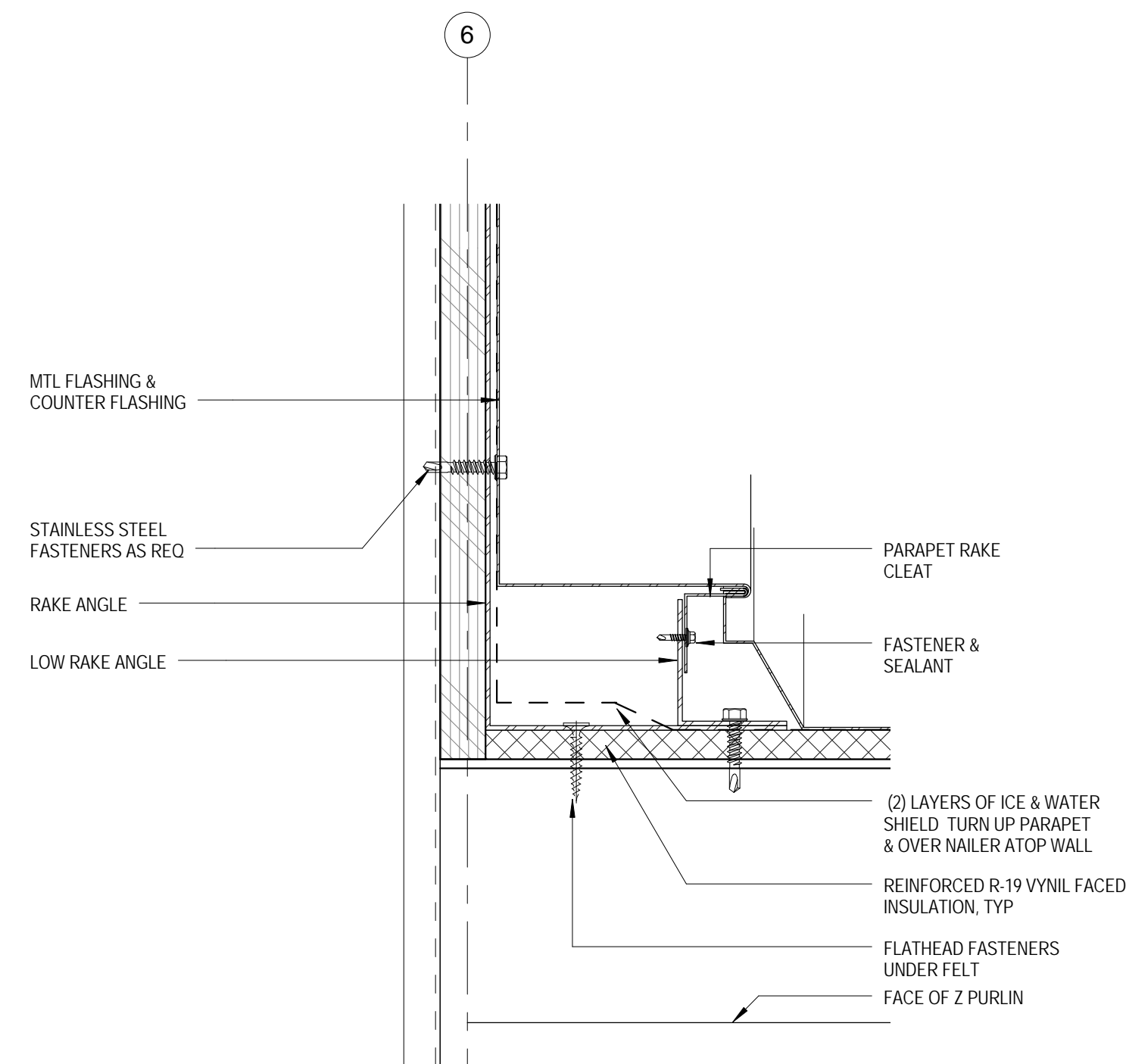
2 ROOF PLAN
SCALE: 1/8" = 1'-0" REF: 1/A3.00



3 FLASHING @ BRICK WALL
SCALE: 3" = 1'-0" REF: 4/A4.20



4 PARAPET CAP & FLASHING DETAIL
SCALE: 6" = 1'-0" REF: 6/A4.10



5 PARAPET RAKE FLASHING DETAIL
SCALE: 6" = 1'-0" REF: 7/A4.10

GENERAL NOTES: SITE

- THE FOLLOWING IS TYPICAL FOR ALL WORK:
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL STATE, COUNTY AND LOCAL CONSTRUCTION PERMITS AND THE EXPENSE THEREOF.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR LAYOUT OF PROJECT AND ALL COSTS ASSOCIATED THEREWITH BASED UPON CONTROL POINTS AS SHOWN ON THE DRAWINGS.
 - THE CONTRACTOR SHALL PROVIDE THE OWNER AND THE LANDSCAPE ARCHITECT WITH A LIST OF TWO NAMES AND TELEPHONE NUMBERS TO BE UTILIZED DURING EMERGENCIES OR DURING DAYS THE CONTRACTOR IS NOT WORKING ON SITE.
 - THE CONTRACTOR SHALL OBTAIN THE PERMISSION AND THE APPROVAL FOR ALL PROPOSED SUB-CONTRACTORS AND SHALL BE RESPONSIBLE FOR ALL PHASES OF THE PROJECT INCLUDING THE SUB-CONTRACTORS WORK.
 - THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND TESTING LAB A MINIMUM OF 48 HOURS IN ADVANCE OF BEGINNING ANY MAJOR PHASE OF THE PROJECT.
 - THE CONTRACTOR SHALL CONFINE ALL WORK TO THE LIMITS OF THE CLEARED AREAS AS INDICATED ON THE PLANS AND SHALL PROTECT ALL TREES TO REMAIN THROUGHOUT CONSTRUCTION.
 - EXCESS EXCAVATION NOT REQUIRED ON SITE SHALL BE DISPOSED OFF-SITE AT THE CONTRACTOR'S EXPENSE.
 - UNDERGROUND UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL COORDINATE ALL ACTIVITIES WITH UTILITY COMPANIES AND MAKE ALL NECESSARY ARRANGEMENTS FOR RELOCATIONS OR REMOVALS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY FENCING OR OTHER SECURITY MEASURES REQUIRED TO PROTECT WORK OR EQUIPMENT DURING CONSTRUCTION.
 - CONTRACTOR SHALL BE IN COMPLIANCE WITH ALL OSHA REQUIREMENTS.
 - THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO INSURE TRUCKS HAULING SOIL MATERIALS DO NOT TRACK SOIL MATERIALS OR IN ANY FASHION THEIR OPERATIONS CAUSE A NUISANCE OR THREAT TO SAFETY OF THE PUBLIC USING THE STREETS AND HIGHWAYS IN THE AREA OF THE PROJECT SITE. FURTHERMORE, TRUCKS SHALL UTILIZE THE EXISTING ENTRANCES TO THE SITE.
 - THE CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND FAMILIARIZE HIMSELF OR HERSELF WITH THE SITE PRIOR TO COMMENCEMENT OF WORK. ACTUAL FIELD CONDITIONS MAY VARY FROM LAYOUT AND DIMENSIONS AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH EXISTING FIELD CONDITIONS. NOTIFY THE LANDSCAPE ARCHITECT IN WRITING OF ANY DISCREPANCIES PRIOR TO CONTINUING WORK.
 - CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT DAMAGE OR INTERRUPTION TO EXISTING UTILITY SERVICE. ANY DAMAGE OR INTERRUPTION TO EXISTING UTILITY SERVICE SHALL BE RESTORED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.
 - THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE AGENCIES HAVING JURISDICTION (I.E., DEPT. OF TRANSPORTATION, FIRE DEPT., DEPT. OF ENVIRONMENTAL PROTECTION, TELEPHONE, SEWER, GAS, WATER, ETC.). OBTAIN PERMITS AND PAY ANY FEES ASSOCIATED WITH THE WORK ON THIS PROJECT.

Perez.

ARCHITECTURE
ENGINEERING
PLANNING
INTERIORS
LANDSCAPE
GRAPHICS

PEREZ
A PROFESSIONAL CORPORATION
317 BURGUNDY STREET, SUITE 11
NEW ORLEANS, LA 70112
WWW.P-PEREZ.COM

St Bernard Parish Sheriff's Substation #47
4700 PARIS ROAD CHALMETTE, LA 70043
CONSTRUCTION DOCUMENTS

DATE: 4-25-14
PROJECT NO.: 01-09-1082-02

REVISIONS:		
No.	Date	Description

DRAWN BY: ERIVERS
CHECKED BY: PLYONS

SHEET TITLE
SITE PLAN & ROOF PLAN
SHEET NO

AS.01

GENERAL NOTES: PLANS

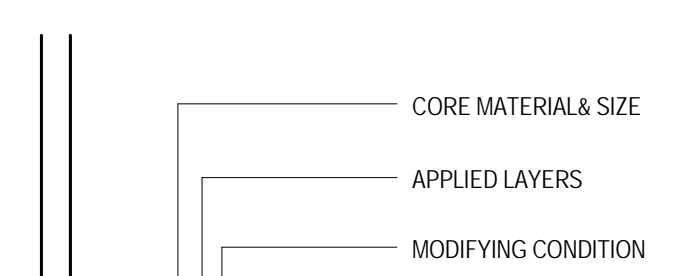
THE FOLLOWING IS TYPICAL FOR ALL WORK:

- REFER TO LIFE SAFETY SHEETS FOR RATED WALLS AND SMOKE PARTITIONS.
- REFER TO WALL AND ASSEMBLY SHEETS FOR ALL STRUCTURAL STEEL MEMBERS, FLOOR/CEILING ASSEMBLIES AND ROOF ASSEMBLIES.
- FIRE EXTINGUISHER LOCATIONS ARE NOTED ON FLOOR PLANS WITH THE DESIGNATION (FE). EACH LOCATION REPRESENTS A FIRE EXTINGUISHER AND BRACKET OR CABINET. SEE SPECIFICATION FOR DETERMINATION OF FIRE EXTINGUISHER TYPE AND REQUIREMENT FOR BRACKET OR CABINET IN EACH CASE.
- REFER TO SECTIONS, ELEVATIONS AND DETAILS FOR WALL CONDITIONS AND BALANCE OF DRAWING SET FOR MORE INFORMATION.
- SEE WALL SECTIONS, BUILDING SECTIONS, ELEVATIONS AND DETAILS FOR ALL EXTERIOR WALL CONDITIONS.
- WHERE ANY U.L.# RATING IS CALLED OUT, REFER TO THE U.L. DIRECTORY # LISTED AND BUILD WALL ASSEMBLIES ACCORDING TO THE APPROPRIATE U.L.# RATED WALL/ROOF ASSEMBLY THEREIN.
- REFER TO FINISH SCHEDULE FOR FINISH OF INTERIOR WALL COMPONENTS AND ANY ADDITIONAL WALL COMPONENTS TO BE ADDED TO WALL ASSEMBLIES INDICATED.
- REFER TO ENLARGED DRAWINGS, PLANS AND DETAILS FOR MORE DETAILED INFORMATION AND ACTUAL ASSEMBLIES OF WALLS IN SPECIFIC AREAS CALLED OUT IN DRAWINGS.
- REFER TO MECHANICAL DRAWINGS FOR LOCATIONS OF MECHANICAL SHAFTS.
- REFER TO PLUMBING DRAWINGS FOR LOCATIONS OF PLUMBING PIPES, CHASE WALLS, FLUES TO ROOF AND OTHER FIXTURE LOCATIONS. PROVIDE VERTICAL AND/OR HORIZONTAL FIXED AND/OR ADJUSTABLE WATER CLOSET CARRIERS TO ACCOMMODATE WALL ASSEMBLIES INDICATED. A SUBMITTAL MUST BE PROVIDED BY THE CONTRACTOR TO REVIEW CARRIERS WITH A SCHEDULE AND KEYPED PLANS FOR ARCHITECT/ENGINEER'S REVIEW.
- ALL INTERIOR WALL DIMENSIONS ARE TAKEN FROM FACE OF STUD TO FACE OF STUD.
- GLASS TYPES ARE INDICATED NEXT TO WINDOWS PER THE GRAPHICS LEGEND.
- CONTRACTOR IS REQUIRED TO PROVIDE BLOCKING AT ALL TELEVISION LOCATIONS. SEE DETAIL 71A9 50.
- FURNITURE SHOWN FOR GENERAL INFO ONLY. NOT IN CONTRACT.

METAL STUD FRAMING NOTES:

- REFER TO STRUCTURAL SHEET S3.2 FOR STUD SECTION PERTAINING TO ALL EXTERIOR WALLS.
- ALL INTERIOR WALLS TO BE 22 GAUGE METAL STUDS @ 16" MAX.

PARTITION TYPE LEGEND



CORE MATERIAL

- M MASONRY WALL
- S METAL STUD

BASIC SIZE

- | | | |
|----|--------|--------------------------------|
| 1 | 7/8" | METAL STUD |
| 3 | 3 5/8" | METAL STUD |
| 4 | 4" | CMU |
| 6 | 6" | METAL STUD |
| 8 | 8" | CONCRETE MASONRY OR METAL STUD |
| 12 | 12" | CMU |

APPLIED LAYERS

- A 1 LAYER 5/8" DRYWALL ON ROOM-FACING SIDE
- B 1 LAYER 5/8" DRYWALL ON EACH SIDE
- C 1 LAYER BRICK MASONRY ON EXTERIOR
- K RATED WALL CONSTRUCTION (LIST U.L. DESIGN # IN CONDITIONS)

MODIFYING CONDITIONS

- COMPLETE WALL ASSEMBLY IS CONTINUOUS TO UNDER-SIDE OF STRUCTURE ABOVE. PROVIDE FIRE SAFING AT TOP OF ALL RATED PARTITIONS, AND SMOKE SEALS AT SMOKE PARTITIONS. PROVIDE MIN. 1" DEFLECTION TRACKS AT METAL STUD PARTITION. PROVIDE ACOUSTIC BATT INSULATION FULL CAVITY WIDTH AND FULL WALL HEIGHT. IF WALL DOES NOT EXTEND TO UNDERSIDE OF STRUCTURE PROVIDE ACOUSTIC BATT INSULATION ABOVE CEILING.
- COMPLETE WALL ASSEMBLY EXTENDS 6' ABOVE HIGHEST ADJOINING CEILING. BRACE WALL AS REQUIRED.
- U.L.#U415 - MECHANICAL SHAFT
- U.L.#U465 - WALL
- U.L.#U906 - CMU SHAFT
- 3/4" PLYWOOD W/ FIREPROOF COATING
- INSTALL (1) LAYER OF 1/2" PLYWOOD FULL HEIGHT OF WALL BENEATH GYP BD. STAGGER JOINTS BETWEEN PLYWOOD & GYPBD

DATE: 4-25-14

PROJECT NO.: 01-09-1082-02

REVISIONS:

No.	Date	Description

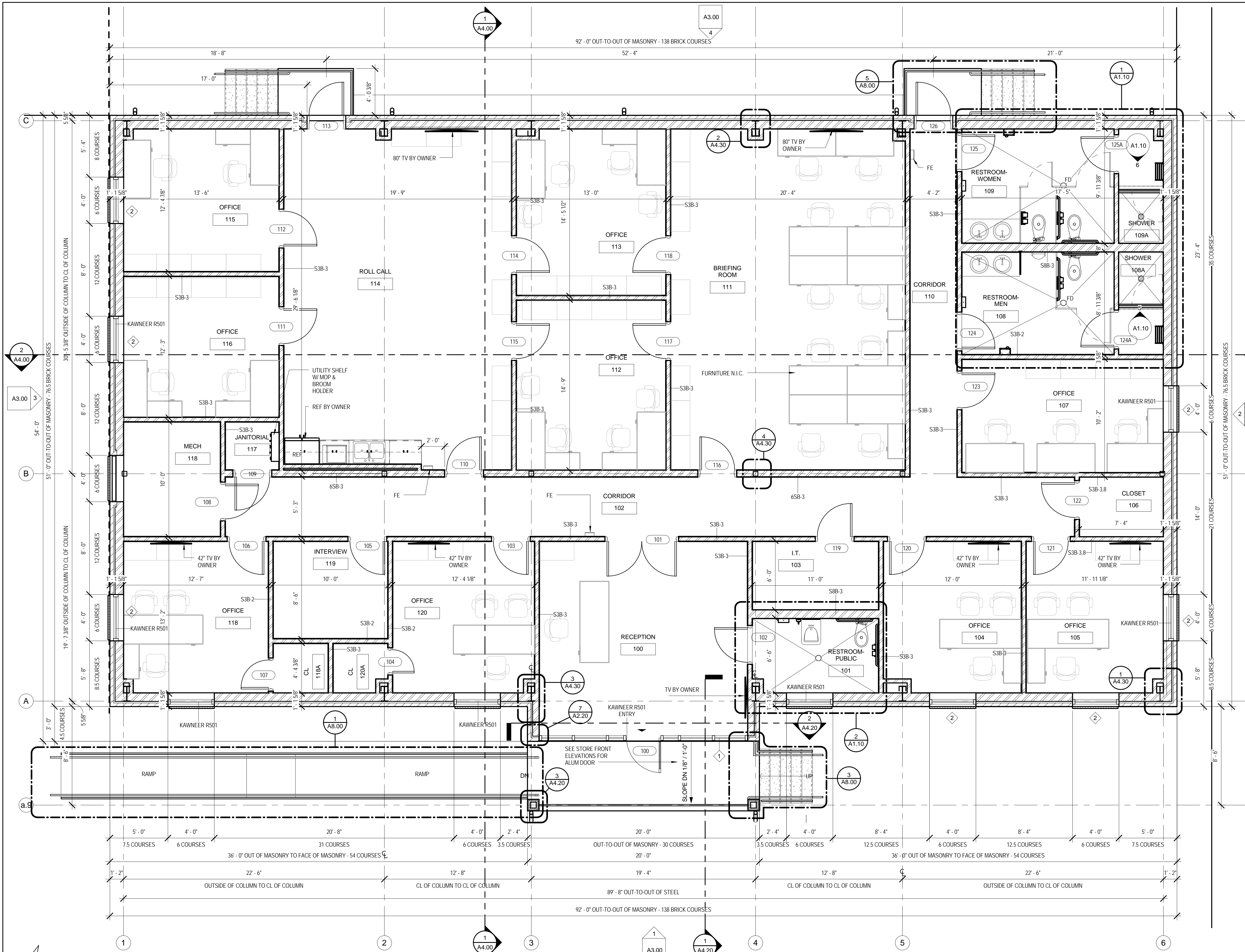
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CHECKED BY: PLYONS

SHEET TITLE

FLOOR PLANS

SHEET NO

A1.00



1 FLOOR PLAN
SCALE: 1/4" = 1'-0" REF: 3/A1.10

H:\PROJECTS\09-1082 - SBPSO-New Substations, Arch\LA03 - Paris Road\Drawings\01 Rev\01 Central Model\Plan-Cont.dwg 4/25/2014 11:32:37 AM



St Bernard Parish Sheriff's Substation #47
SQUARE 327 PARIS RD

DATE: 04/11/14
PROJECT NO.: 01-09-1082-02

REVISIONS:		
No.	Date	Description

DRAWN BY: _____ Author
CHECKED BY: _____ Checker

SHEET TITLE
**CIVIL PAVING,
GRADING & UTILITY
PLAN**
SHEET NO

C1.0

EXISTING SITE LEGEND

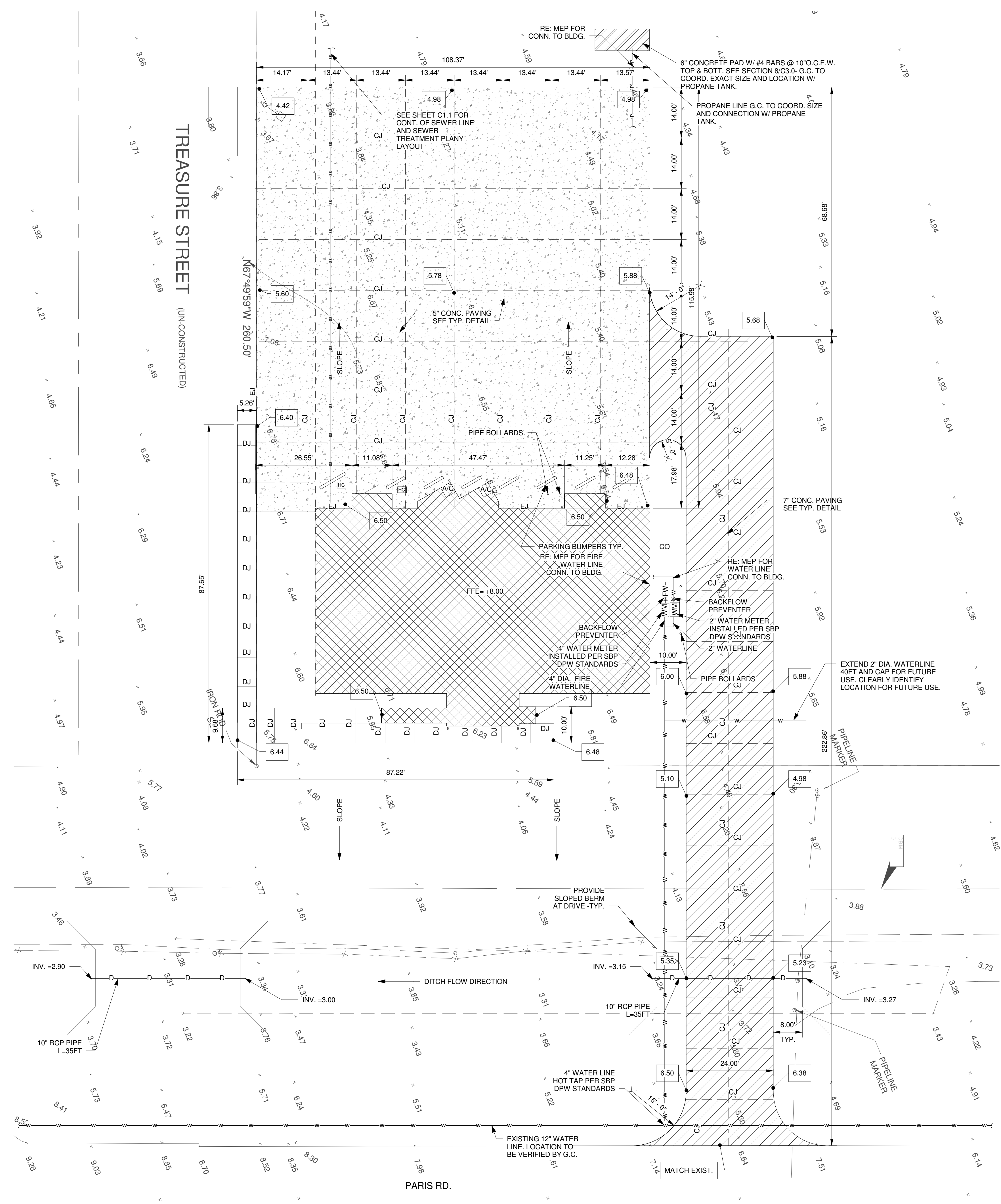
- BUILDING
- EXISTING RIGHT OF WAY
- CATCH BASIN
- CULVERT
- DROP INLET, DRAIN LINE
- DROP INLET, DRAIN LINE
- COMMUNICATIONS MANHOLE, COMM. LINE
- DRAIN MANHOLE, DRAIN LINE
- ELECTRICAL MANHOLE, ELEC. LINE
- GAS MANHOLE, GAS LINE
- SEWER MANHOLE, SEWER LINE
- TELEPHONE MANHOLE, TELE LINE
- TRAFFIC MANHOLE, TRAFFIC LINE
- WATER MANHOLE, WATER LINE
- UTILITY POLE / OVERHEAD LINES
ELECTRIC, TELEPHONE, CABLE TV
- FENCE
- UTILITY BOX
- UTILITY CLEANOUT
- UTILITY METER
- UTILITY PEDESTAL
- UTILITY VALVE
- UTILITY VALVE VAULT
- FIRE HYDRANT
- LIGHT STANDARD
- TRAFFIC SIGNAL POLE
- TRAFFIC LIGHT POWER VAULT
- CANOPY SUPPORT
- SIGN
- TREE
- RESIDENTIAL MAILBOX
- PP DEADMAN

LEGEND

- NEW BUILDING
- NEW 5" CONC. PAVING, SEE DETAIL 10/C2.0
- NEW 7" CONC. PAVING, SEE DETAIL 11/C2.0
- SINGLE LIGHT POLE: RE ARCH & ELEC.
SEE 10/C2.0 FOR TYP. FND.
- 6" DIA. PIPE BOLLARD - SEE DETAIL 8/C3.0
- HANDICAP PARKING SIGNAGE
- FINISH GRADE
- 21.50 T.O.C.
18.50 INV.
- T.O.C. = TOP OF CASTING ELEVATION
INV. = INVERT ELEVATION
- 1/2" IRON ROD FOUND
- 21.4' +
SLOPE
- SLOPE ARROW
- SANITARY CLEAN OUT
- FW FIRE WATER LINE
- SS SEWER LINE - SDR 26 PVC
- P PROPANE LINE G.C. TO COORD SIZE
- W DOMESTIC WATER
- WATER METER
- BACKFLOW PREVENTER
- FIRE HYDRANT
- DJ SIDEWALK DUMMY JOINT
- CJ CONTROL JOINT
- LCJ LOGITUDINAL CONTROL JOINT
- EJ EXPANSION JOINT
- 8ft TALL WHITE METAL CORRUGATED
FENCE W/ Z-GIRTS ATTACHED TO
FENCE POSTS @ 8'-0" O.C.
- PARKING BUMPER, SEE DETAIL 3/C3.0

- NOTES:
- EXISTING UTILITIES SHOWN ARE ASSUMED. G.C. TO COORDINATE ACTUAL LOCATIONS IN FIELD WITH DEPARTMENT OF PUBLIC WORKS AND REPORT TO ENGINEER FOR POSSIBLE MODIFICATIONS.
 - ALL GRADES SHOWN ARE NAVD 88 ELEV.
CONTRACTOR TO VERIFY UTILITY LOCATIONS

SCALE = 1:15
1 SITE PLAN
SCALE: 1:180



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St Bernard Parish Sheriff's Substation #47

SQUARE 327 PARIS RD

DATE: 04/11/14
PROJECT NO.: 01-09-1082-02

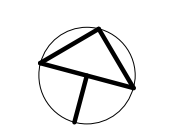
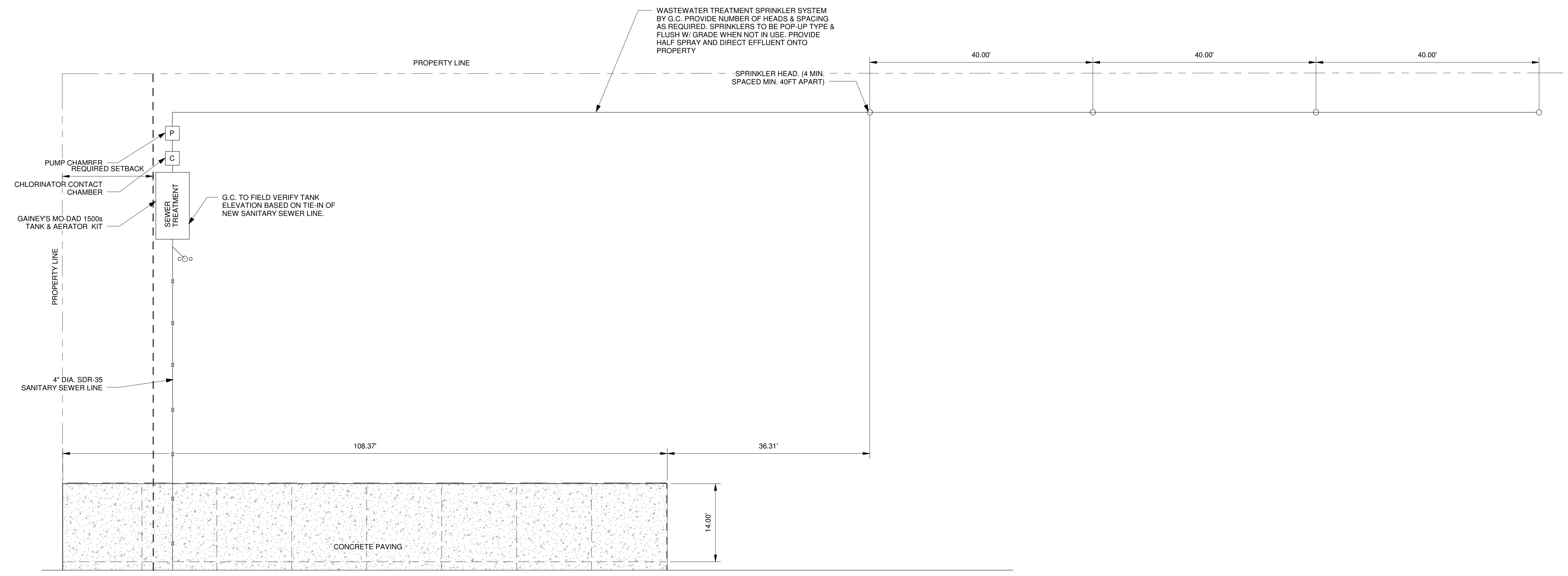
REVISIONS:		
No.	Date	Description

DRAWN BY: _____ Author
CHECKED BY: _____ Checker

SHEET TITLE
SEWER TREATMENT PLANT LAYOUT

SHEET NO
C1.1

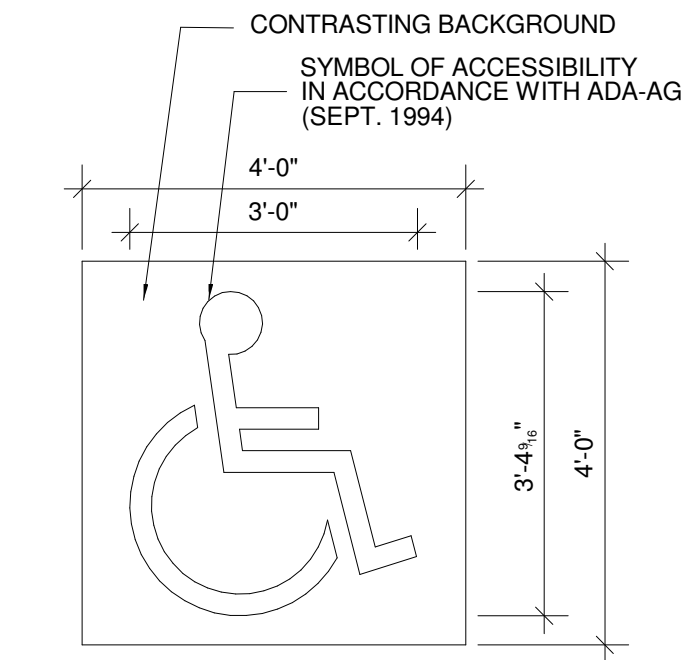
- NOTES:
- BASIS OF DESIGN FOR THE WASTEWATER TREATMENT SYSTEM IS GAINEY'S MO-DAD-1, INC 1500S SYSTEM. CONTRACTOR TO PROVIDE PACKAGE SYSTEM APPROVED BY AND MEETING THE REQUIREMENTS OF DHH. CONTRACTOR TO COORDINATE INSTALLATION & FINAL INSPECTION W/ DHH PRIOR TO CONSTRUCTION AND POST CONSTRUCTION.
 - REFERENCE M.E.P. FOR TIE-IN LOCATIONS & ELECTRICAL REQUIREMENTS.
 - TANK HAS BEEN SIZED FOR CAPACITY OF NEW BUILDING PLUS FUTURE ADDITIONAL BUILDING ON SITE.
 - SIZING OF TANK HAS BEEN BASED ON AN OFFICE BUILDING USE WITH AN AVERAGE DAILY FLOW OF 20 GPD PER EMPLOYEE PER THE LOUISIANA ADMINISTRATIVE CODE.



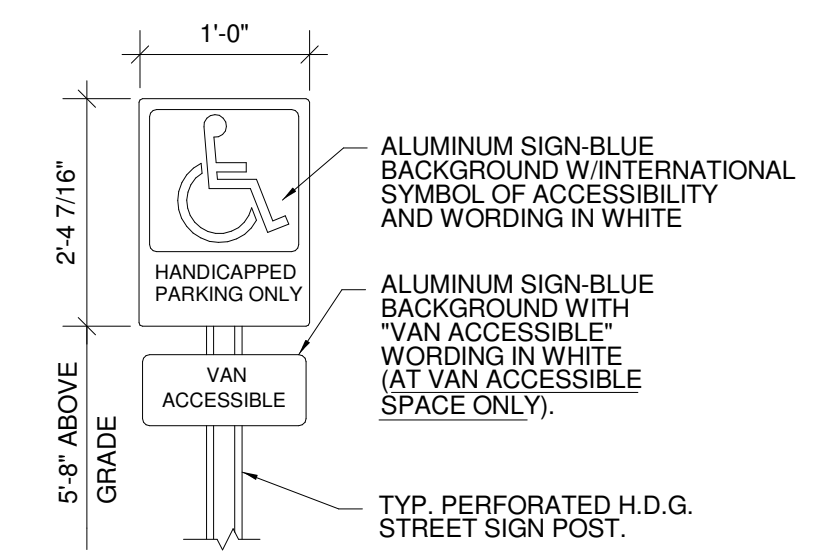


REVISIONS:		
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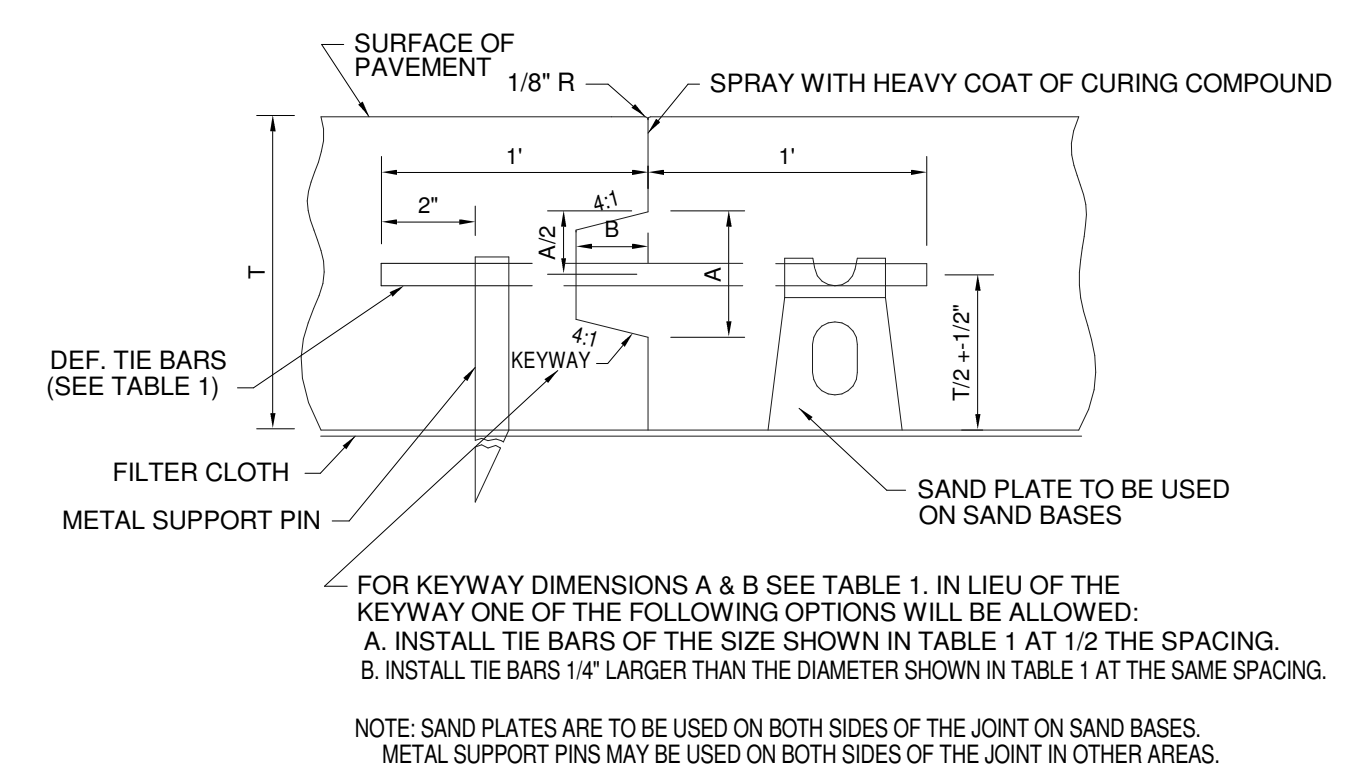
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CHECKED BY: Checker
SHEET TITLE



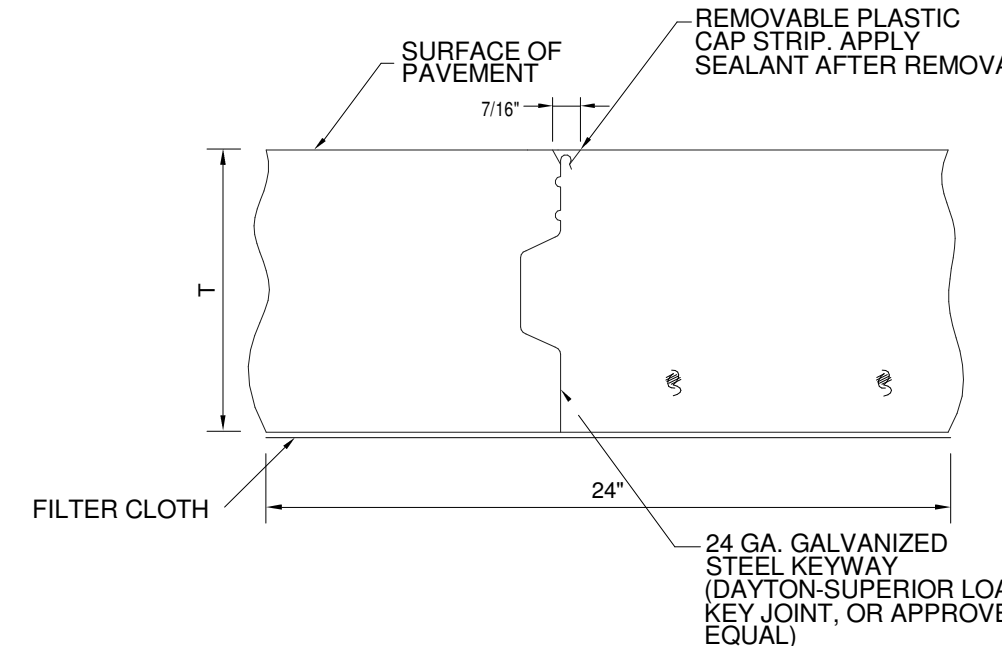
4 HANDICAP PARKING PAINT DETAIL
SCALE: N.T.S.



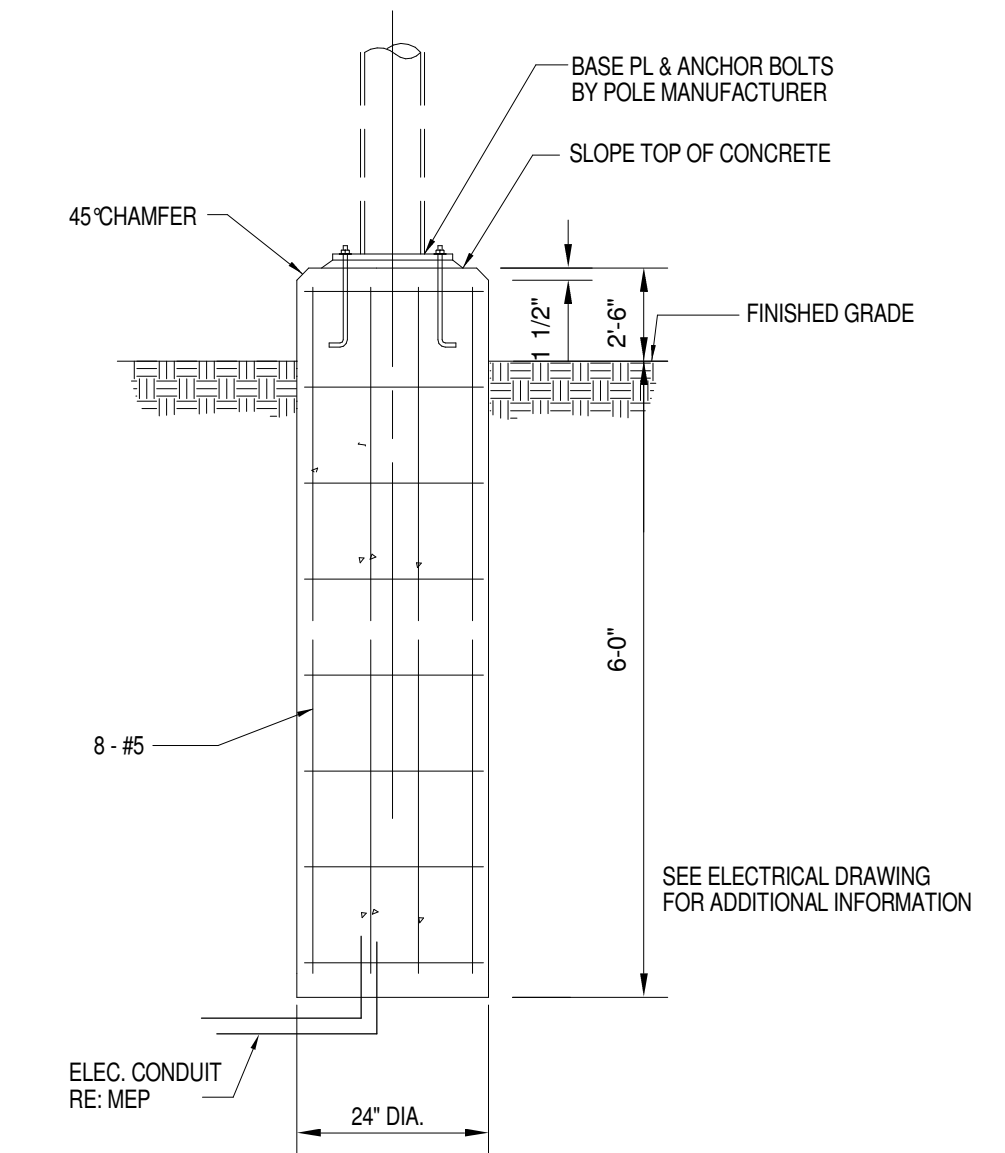
3 HANDICAP PARKING SIGN DETAIL
SCALE: N.T.S.



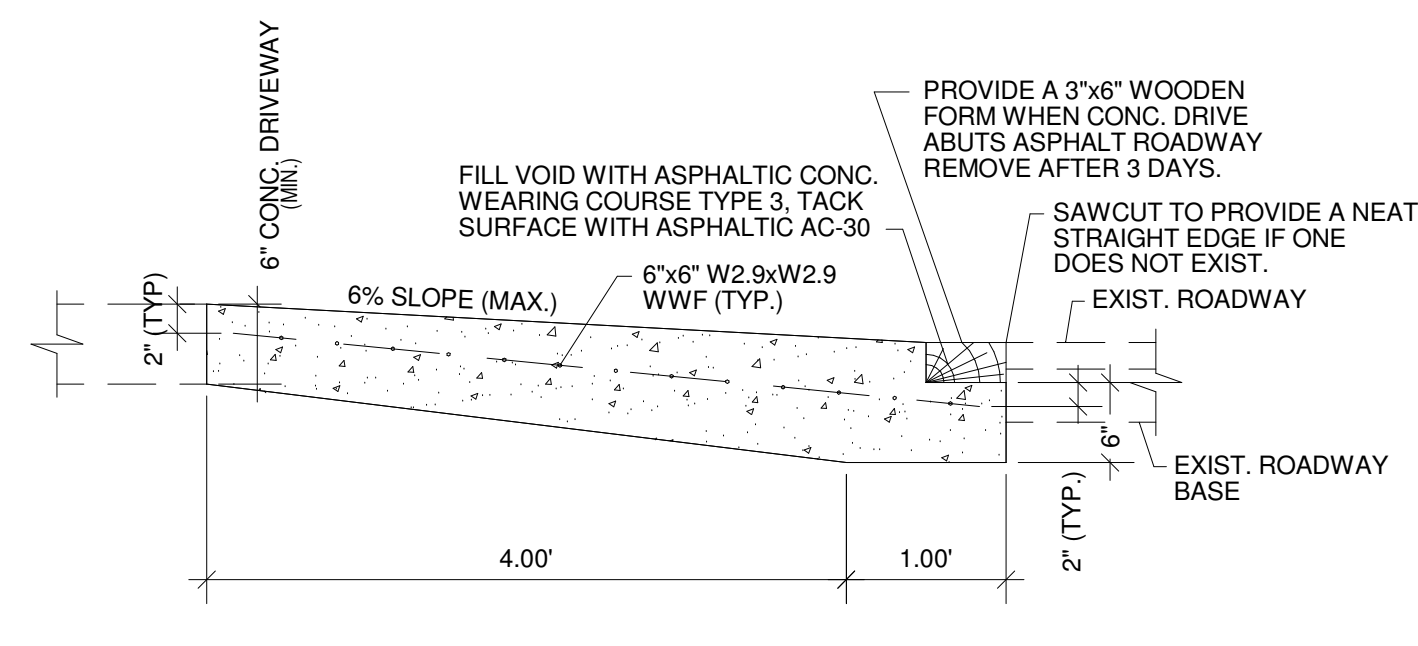
2 SECTION-TYPE LCJ (LONGITUDINAL CONSTRUCTION JOINT)
SCALE: N.T.S.



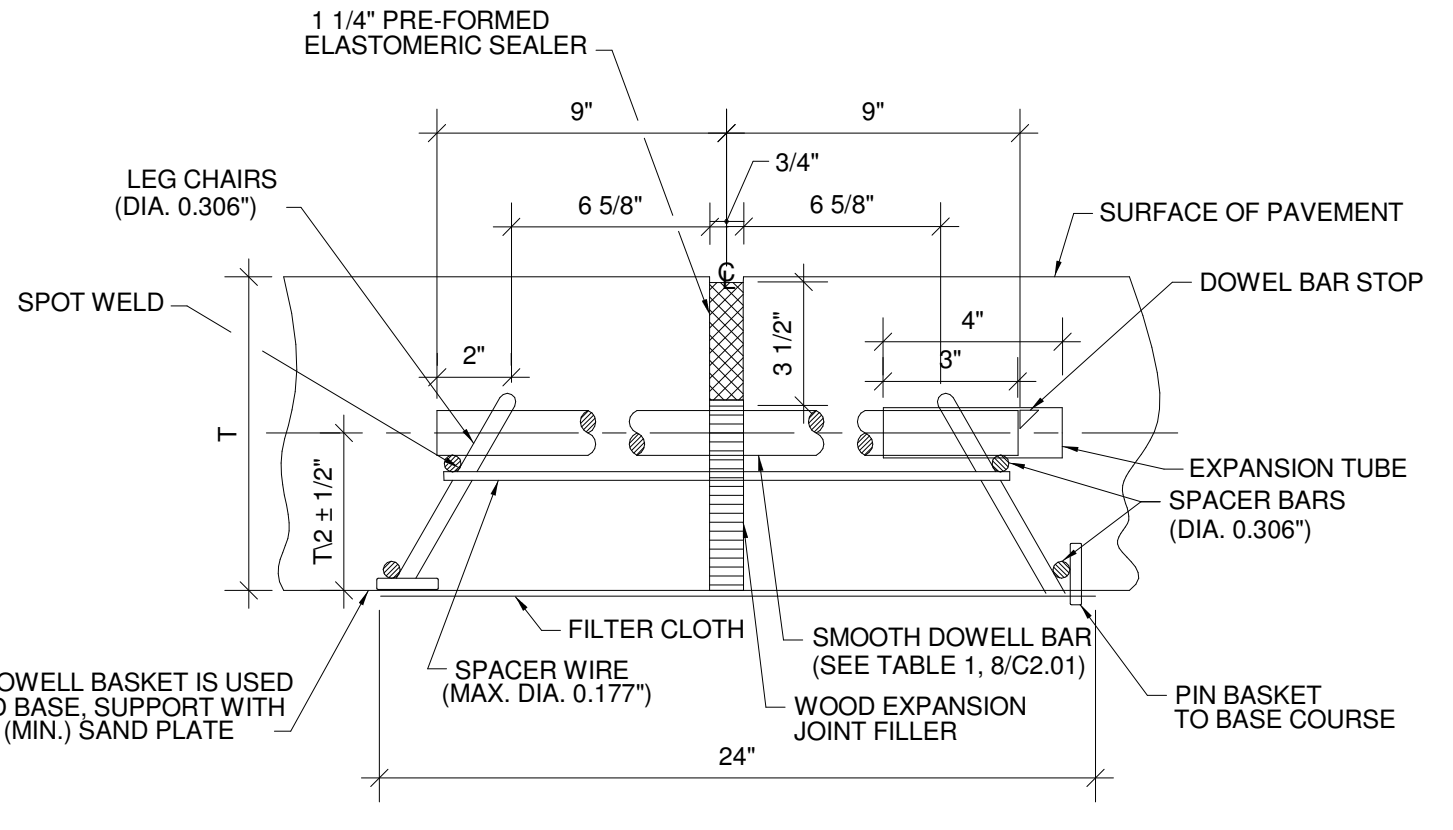
1 SECTION-TYPE CJ (TRANSVERSE CONSTRUCTION JOINT)
SCALE: N.T.S.



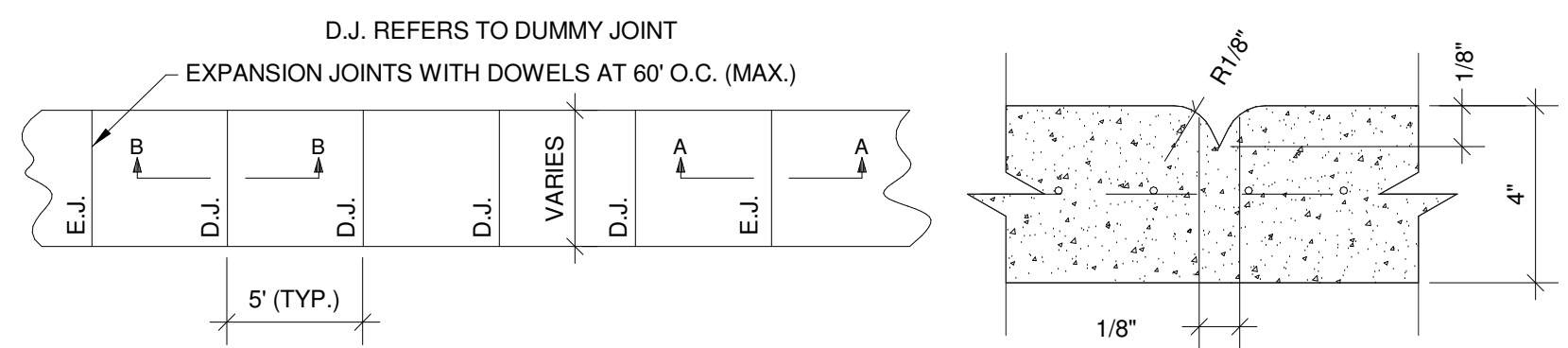
9 LIGHT POLE FOUNDATION
SCALE: N.T.S.



8 NEW DRIVEWAY/EXISTING ROADWAY CONNECTION w/o CURB
SCALE: N.T.S.

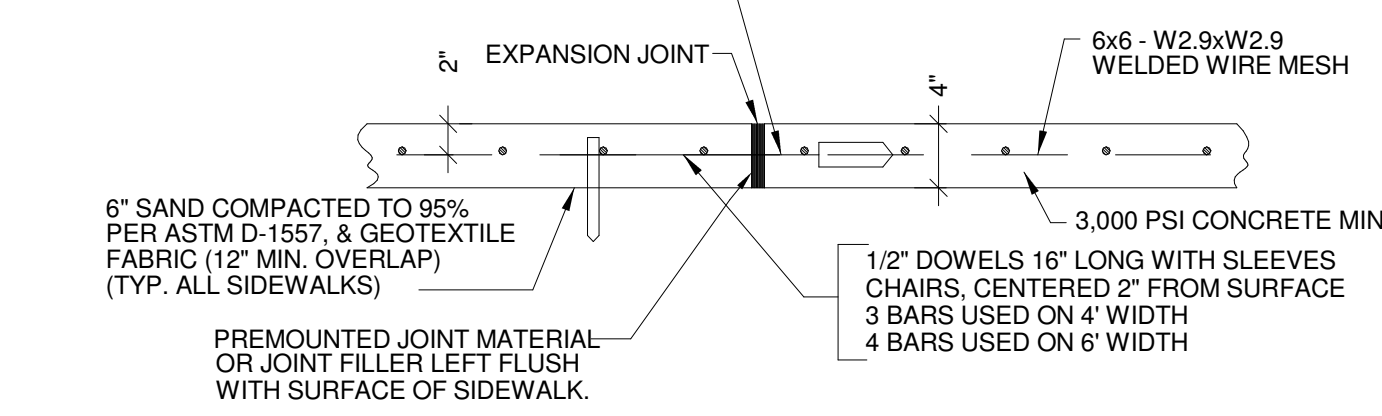


7 SECTION - TYP. EJ (TRANSVERSE EXPANSION JOINT)
SCALE: N.T.S.



SECTION B-B

SMOOTH DOWEL SHALL BE USED. THE BARS SHALL BE PLACED IN THE EXISTING PAVEMENT BY DRILLING HOLES 1/8" LARGER THAN THE DIA. OF THE DOWEL BAR TO A DEPTH OF 1/2 THE BAR LENGTH AND FILLING THE HOLES WITH AN APPROVED EPOXY RESIN (OP. 32) BEFORE INSERTION OF THE DOWEL BARS.

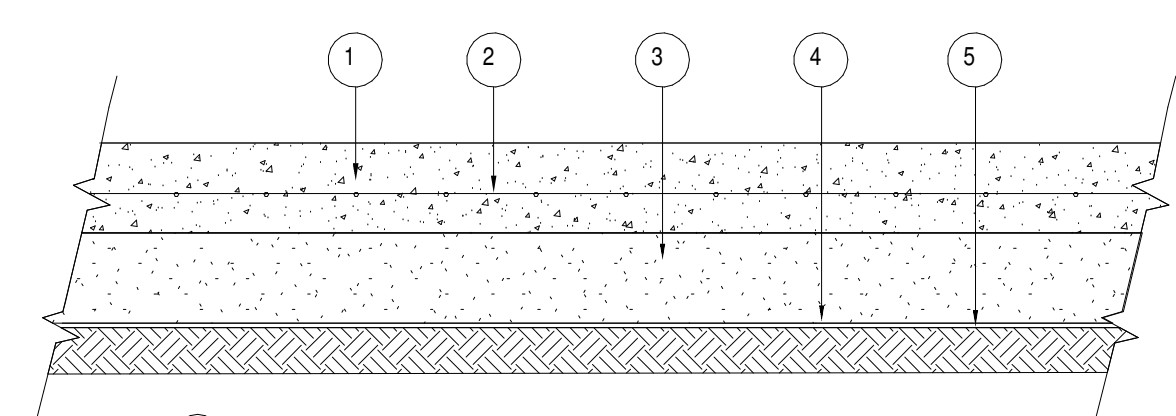


SECTION A-A

5 PORTLAND CEMENT CONC. SIDEWALK PAVEMENT
SCALE: N.T.S.

ALL DIMENSIONS IN INCHES											
PAVEMENT THICKNESS	SMOOTH DOWEL BARS			DEF. TIE BARS			DEPTH OF JOINT		LCJ KEYWAY		
	T	SIZE	LENGTH	SPACING	SIZE	LENGTH	SPACING	CJ* & CJ	LJ	A	B
7" OR LESS	1	18	12	1/2	24	36	2	2 1/2	1 1/2	1 1/2	1 1/2
8	1 1/2	18	12	5/8	30	36	2 1/2	3	2 1/2	1 1/2	1 1/2
9	1 1/2	18	12	5/8	30	36	2 1/2	3 1/2	2 1/2	1 1/2	1 1/2

6 EXP. JOINT, TABLE 1
SCALE: N.T.S.

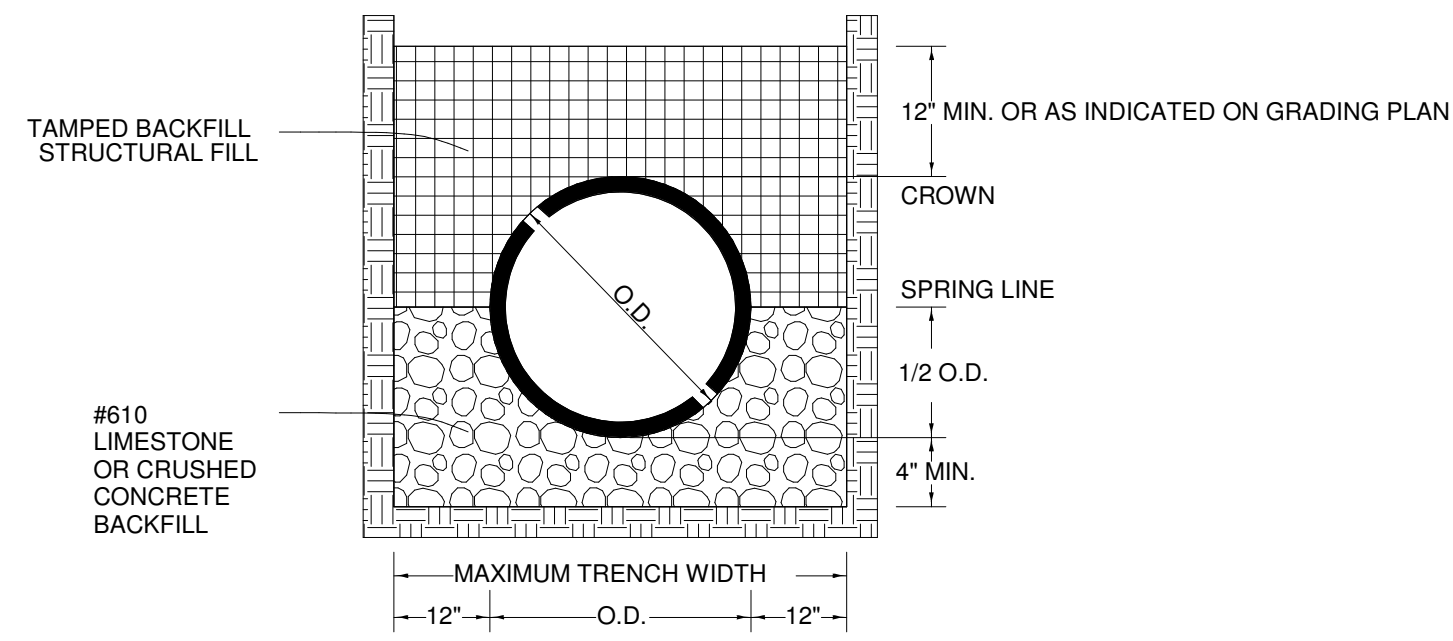


- 7" 4000 PSI PORTLAND CEMENT CONCRETE
- 4x4-W6.0xW6.0 WELDED WIRE FABRIC 4" FROM TOP OF PAVEMENT
- 8" MIN. SAND FILL COMPACTED TO MIN. 95% OF THE MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT PER ASTM D-698. ADDITIONAL FILL MAY BE REQ'D BASED ON GRADES INDICATED.
- GEOTEXTILE FABRIC PLACED DIRECTLY OVER PREPARED SUBGRADE. (MIRAFI 500X OR APPROVED EQUAL)
- PROOF-ROLL NATURAL SUBGRADE.

11 7" PORTLAND CEMENT CONC. PAVEMENT
SCALE: N.T.S.

- NOTES:
- CONCRETE
A.C.I. 301-89 SPECIFICATIONS, NORMAL WEIGHT, (LATEST REVISION)
 - CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS
4,000 P.S.I., UNLESS OTHERWISE NOTED
BEAM STRENGTH AT 28 DAYS- 650 P.S.I. MIN.
 - REINFORCING STEEL
BARS - A.S.T.M. A615, WELDED WIRE MESH - A.S.T.M. A185.
 - GRADE OF REINFORCING STEEL
GRADE 60.
 - REINFORCING DETAILS
A.C.I. 315 STANDARDS.
 - ALL WORK SHALL CONFORM TO REQUIREMENTS OF THE ORLEANS PARISH SEWERAGE & WATER BOARD., IF MORE RESTRICTIVE.
 - PAVING AND INCIDENTAL WORK SHALL CONFORM TO LOUISIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, 1992 EDITION, IF MORE RESTRICTIVE.
 - GEOTEXTILE SHALL BE NON-WOVEN, CONTINUOUS FILAMENTS OF PERVIOUS POLYESTER. FABRIC SHALL BE SPUN-BONDED OR NEEDLE-PUNCHED.
IT SHALL HAVE THE FOLLOWING MINIMUM AVERAGE ROLL VALUES (MARV):
- | PHYSICAL PROPERTIES | TEST METHODS | REQUIREMENTS |
|--------------------------------|--------------|---------------------------------|
| WEIGHT | ASTM D-5261 | 7.2 oz./sq.yd. |
| FABRIC THICKNESS | ASTM D-5199 | 105 mils. |
| GRAB TENSILE STRENGTH (MD) | ASTM D-4632 | 266 lbs. |
| GRAB ELONGATION (MD) | ASTM D-4632 | 66% |
| TRAPEZOIDAL TEAR STRENGTH (MD) | ASTM D-4533 | 92 lbs. |
| PUNCTURE RESISTANCE | ASTM D-4833 | 110 lbs. |
| MULLEN BURSTING STRENGTH | ASTM D-3786 | 382 psi |
| WATER FLOW RATE | ASTM D-4491 | 137 gpm/s.f. |
| PERMITTIVITY | ASTM D-4491 | 1.83 sec -1 |
| PERMEABILITY | ASTM D-4491 | .49 cm/sec |
| APPARENT OPENING SIZE | ASTM D-4751 | #70 U.S. STD. SIEVE
0.210 mm |
- USE TREVIRA 11/25, HBC-10 NW, OR APPROVED EQUAL.
TYPICAL OVERLAP IS MINIMUM 1' IN ALL DIRECTIONS.

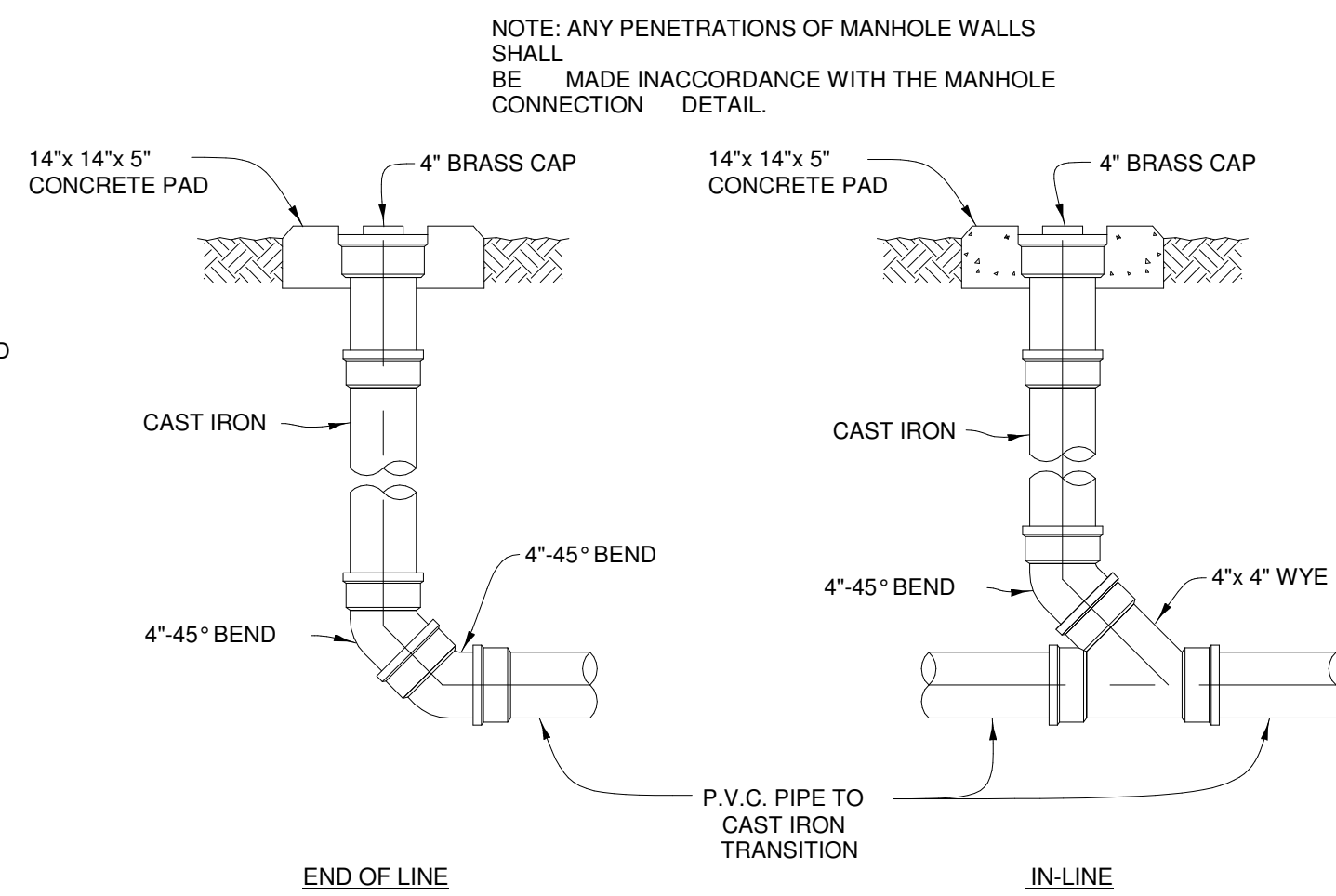
- PAVEMENT EDGES SHALL BE SLIGHTLY ROUNDED (1/4" APPROX.)
- REASONABLE TOLERANCES TO ALL DIMENSIONS WILL BE ALLOWED.
- FOR JOINT DETAILS SEE 1/C2.0, 2/C2.0, 3/C2.0
- ALL JOINTS TO BE USED WHERE SHOWN ON THIS SHEET OR AS SHOWN ELSEWHERE IN THE DRAWINGS OR AS DIRECTED BY THE ENGINEER.
- ON TYPE EJ JOINTS, ARC WELD ALTERNATE ENDS OF DOWEL BARS TO DOWEL BASKETS AND PLACE EXPANSION TUBES ON ALTERNATE ENDS OF DOWEL BARS.
- TYPE EJ JOINTS SHALL BE SEALED TO A DEPTH OF 3 1/2" WITH ELASTOMERIC JOINT SEALER.
THE SEALER SHALL HAVE A NOMINAL WIDTH OF 1-1/4" BEFORE COMPRESSION. JOINTS SHALL BE CLEANED PRIOR TO SEALING.
- TYPE CJ JOINTS MAY BE FORMED AND SEALED BY ANY OF THE METHODS LISTED BELOW. ALL JOINTS SHALL BE FORMED OR SAW CUT TO THE DEPTH SHOWN IN 2/C-4, AND SHALL BE CLEANED IMMEDIATELY PRIOR TO SEALING.
 - WHEN JOINTS ARE FORMED WITH A REMOVABLE FORMING DEVICE, THE JOINTS SHALL BE SEALED WITH A 13/16" PRE FORMED ELASTOMERIC SEALER OR SILICONE SEALER. THE SEALANT RESERVOIR SHALL BE SAW CUT TO A WIDTH OF 7/16" AND A DEPTH OF 1 1/2".
 - WHEN JOINTS ARE FORMED BY SAWING, THE INITIAL CUT SHALL BE SAWS WITH A 1/8" MINIMUM WIDTH BLADE. SAWING SHALL COMMENCE AS SOON AS THE CONCRETE HAS HARDENED SUFFICIENTLY TO PERMIT CUTTING THE CONCRETE WITHOUT CHIPPING, SPALLING OR TEARING AND SHALL BE COMPLETED PRIOR TO DEVELOPMENT OF RANDOM CRACKING. THE SEALANT RESERVOIR MAY BE SAW CUT TO A WIDTH OF 7/16" & REQ'D. DEPTH SIMULTANEOUSLY WITH THE FIRST CUT OR ANY TIME LATER. JOINTS SHALL BE SEALED WITH PRE FORMED ELASTOMERIC SEALER OR SILICONE SEALER.
- WHEN JOINTS ARE FORMED WITH AN APPROVED PERMANENT JOINT FORMING AND SEALING DEVICE, THE DEVICE SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND NO ADDITIONAL SEALER IS REQUIRED.
- EXCEPT AS NOTED BELOW, DOWEL BARS & TIE BARS SHALL BE HELD IN PLACE BY SUPPORTS SIMILAR TO THE ONES SHOWN, OR APPROVED EQUALS. APPROVED MECHANICAL PLACEMENT OF DOWEL BARS AND TIE BARS WILL BE ALLOWED WITH ALL PAVING METHODS. WHEN DOWEL BAR BASKETS ARE USED, SPACER WIRES THAT SPAN ACROSS THE JOINT SHALL BE CUT AND REMOVED AFTER STAKING BASKETS IN PLACE.
- INSTALL FILTER CLOTH UNDER ALL LCJ, CJ, AND EJ JOINTS WHEN CONCRETE PAVEMENT IS PLACED ON BASE COURSES OR SUB-BASES WHEN DOWEL BARS ARE MECHANICALLY IMPLANTED. THE FILTER CLOTH SHALL BE ANCHORED TO THE BASE COURSE WITH PINS.
- WHEN CONSTRUCTING CONCRETE CURB AND GUTTER ADJACENT TO NEW P.C.C. PAVEMENT, USE TYPE LCJ JOINT. WHEN ADJACENT TO EXISTING P.C.C. PAVEMENT, USE TYPE BJ JOINT.
- TRANSVERSE EXPANSION JOINTS ARE NOT TO BE USED FOR CONSTRUCTION JOINTS. ALL POURS MUST BE FINALIZED WITH AN LCJ.
- WHEN PLASTIC OR EPOXY COATED DOWEL BARS ARE USED, THE DOWEL BARS SIZE MAY BE REDUCED 1/8".



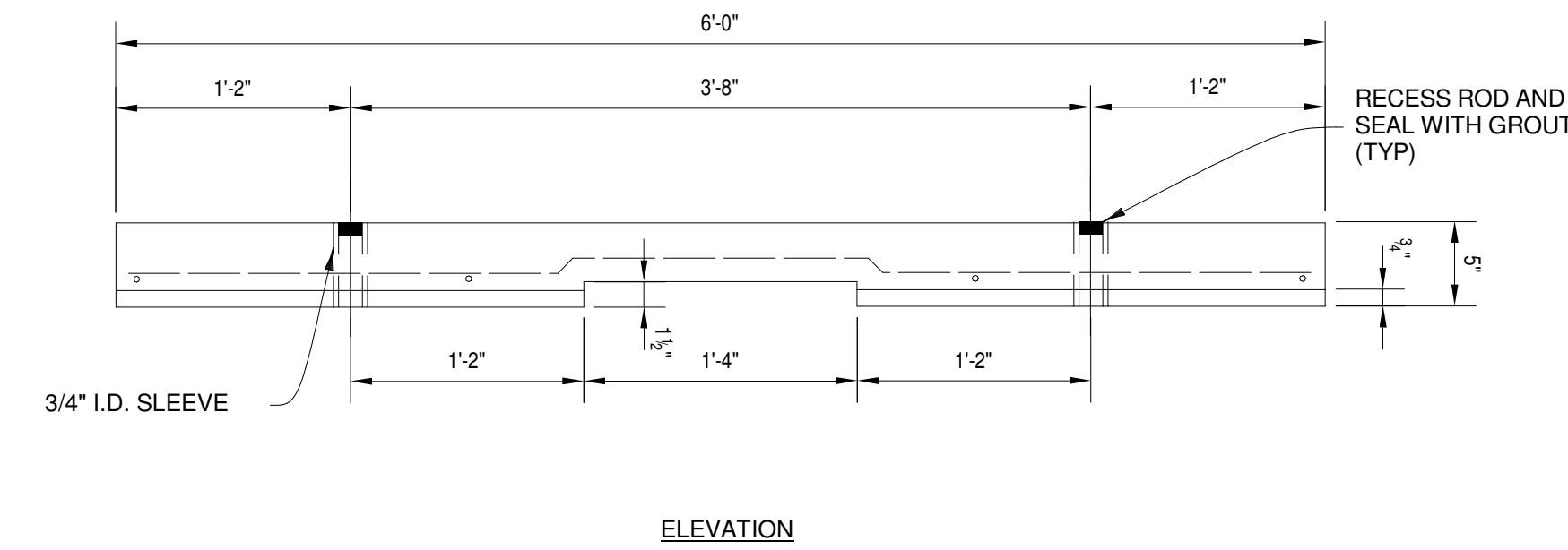
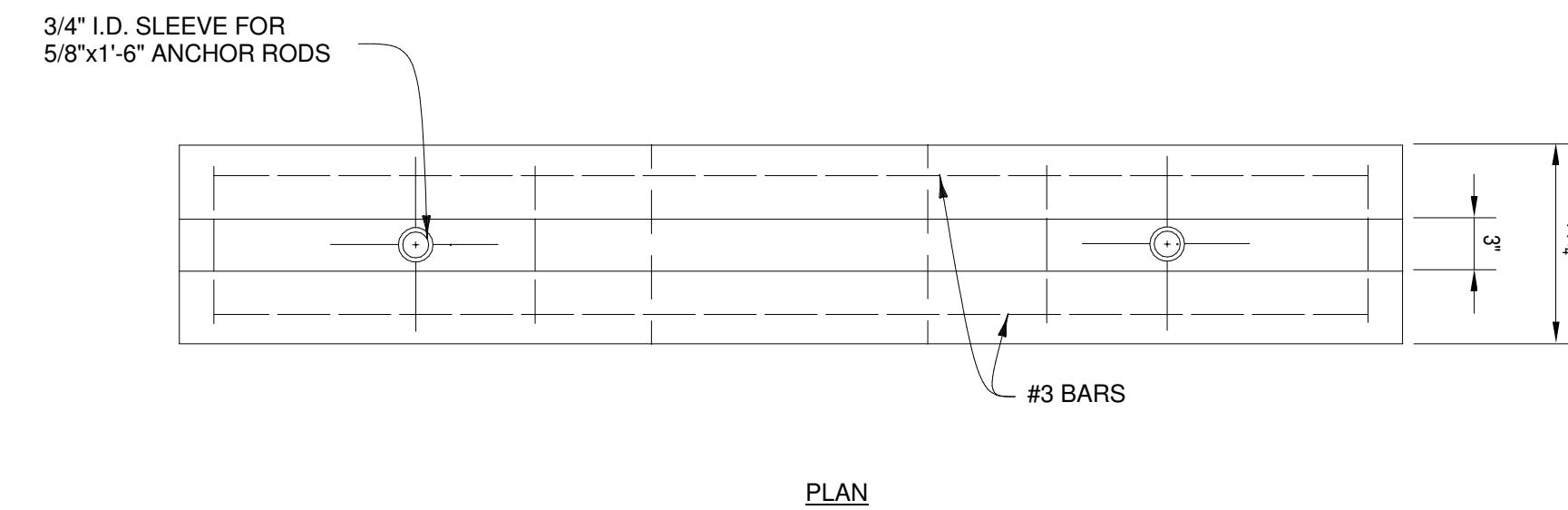
1 TYPICAL UTILITY LINE BEDDING
SCALE: N.T.S.

NOTES:

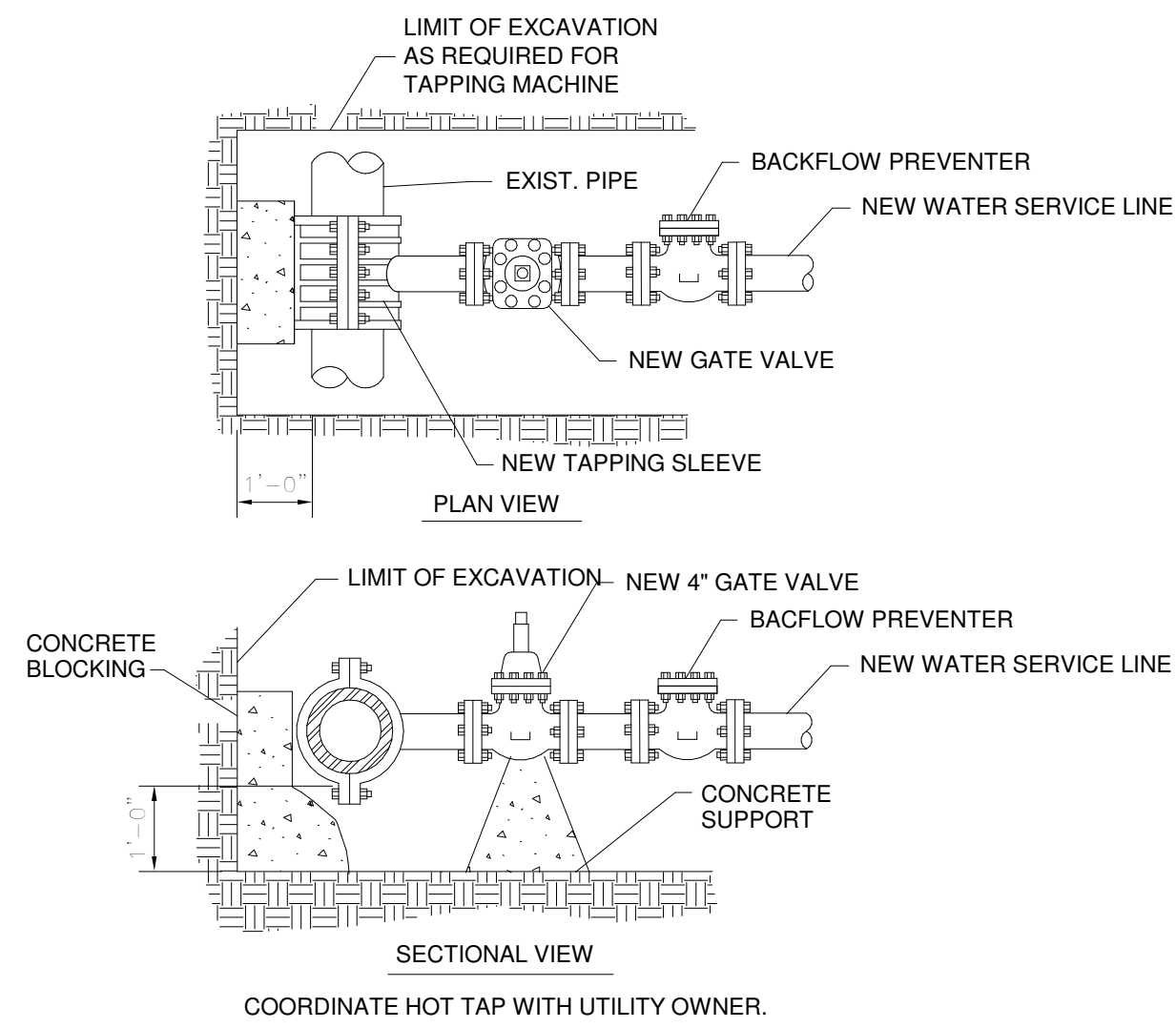
1. GRANULAR MATERIAL FOR EMBEDMENT SHALL BE COMPOSED OF SOUND AND DURABLE PARTICLES OF CRUSHED AGGREGATE AND SHALL CONFORM TO THE FOLLOWING GRADATION INDICATED BELOW. GRANULAR FILL SHALL BE PLACED IN NOT MORE THAN 6" LAYERS AND COMPACTED TO 95% DENSITY AS DETERMINED BY THE ASTM D698.
2. TAMPED BACKFILL SHALL BE IMPORTED STRUCTURAL FILL COMPACTED TO 95% MAXIMUM DENSITY AS DETERMINED BY ASTM D-698.
3. PIPE BEDDING SHALL BE PROVIDED IN ACCORDANCE WITH THESE MINIMUM STANDARDS OR MANUFACTURES RECOMMENDED INSTALLATION PROCEDURE, WHICHEVER IS MORE STRINGENT.
GRADATION REQUIREMENTS:
3/4" 100%
1/2" 80 - 95%
3/8" 50 - 70%
#4 SIEVE 5 - 15%
#10 SIEVE MIN. 5%
4. AT PIPE BEDDING BELOW BUILDING PROVIDE 12" OF #610 COMPACTED LIMESTONE BEDDING BELOW CASING AND COMPACTED LIMESTONE BEDDING 12" ABOVE TOP OF PIPE CASING, THEN COMPACTED STRUCTURAL FILL.



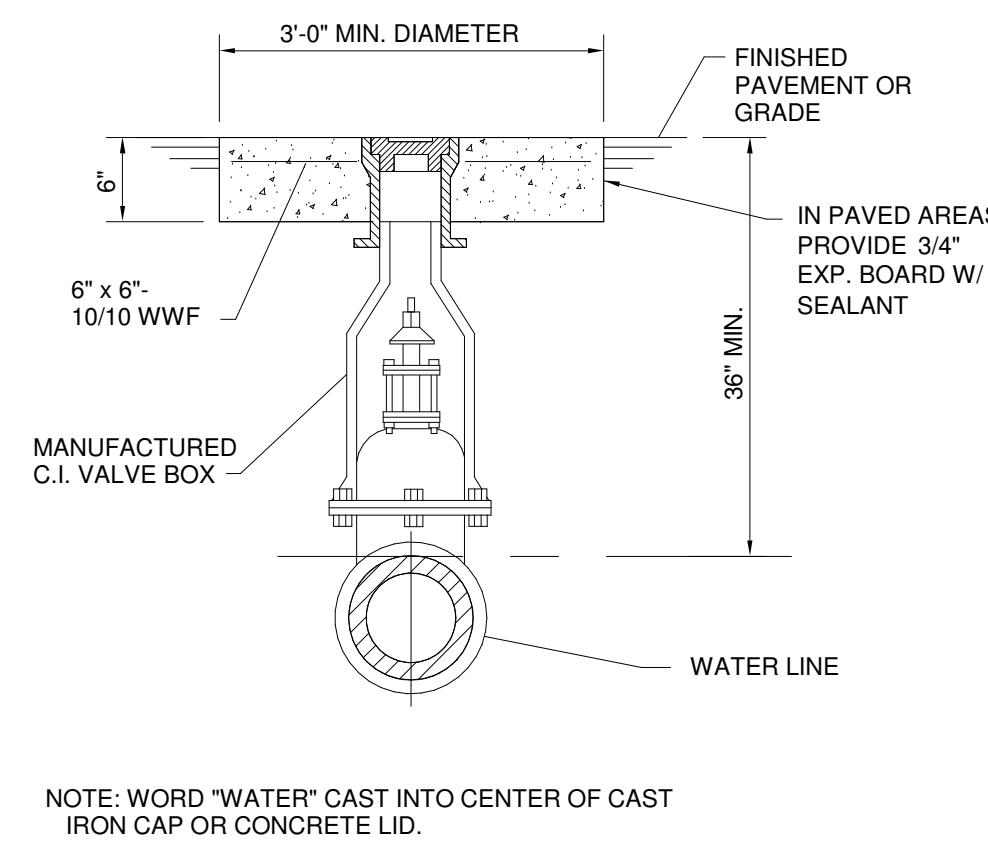
2 TYPICAL CLEANOUT DETAIL
SCALE: N.T.S.



3 TYPICAL PARKING BUMPER DETAIL
SCALE: N.T.S.

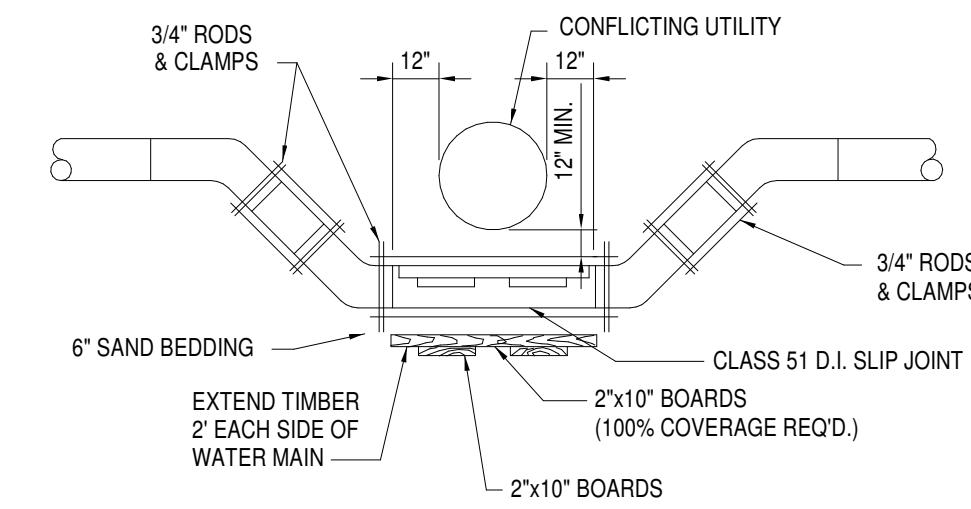


4 TAPPING SLEEVE & VALVE
INSTALLATION DETAIL
SCALE: N.T.S.

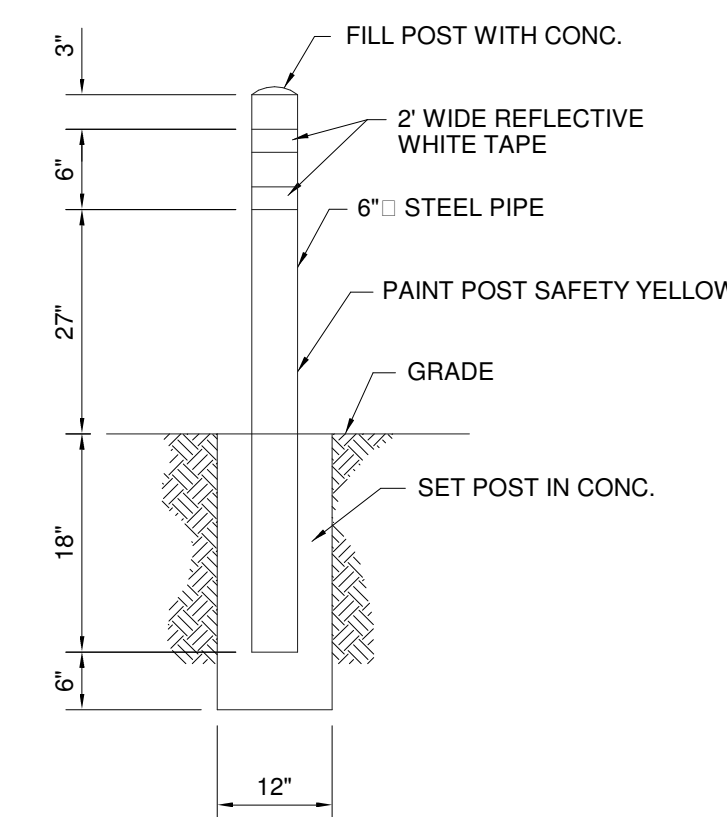


NOTE: WORD "WATER" CAST INTO CENTER OF CAST IRON CAP OR CONCRETE LID.

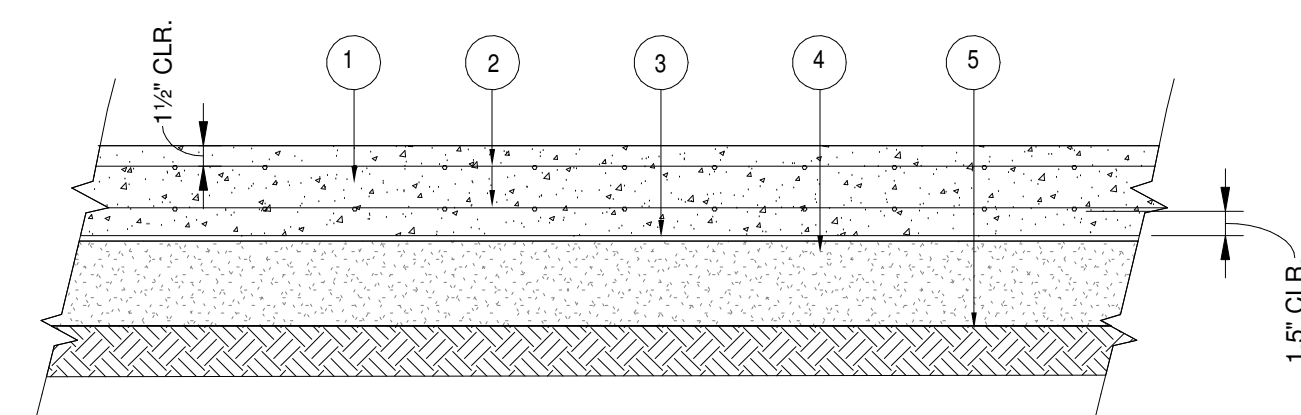
5 TYPICAL DETAIL
TYP. VALVE BOX DETAILS
SCALE: N.T.S.



6 TYPICAL DETAIL
WATERLINE OFFSET
SCALE: N.T.S.



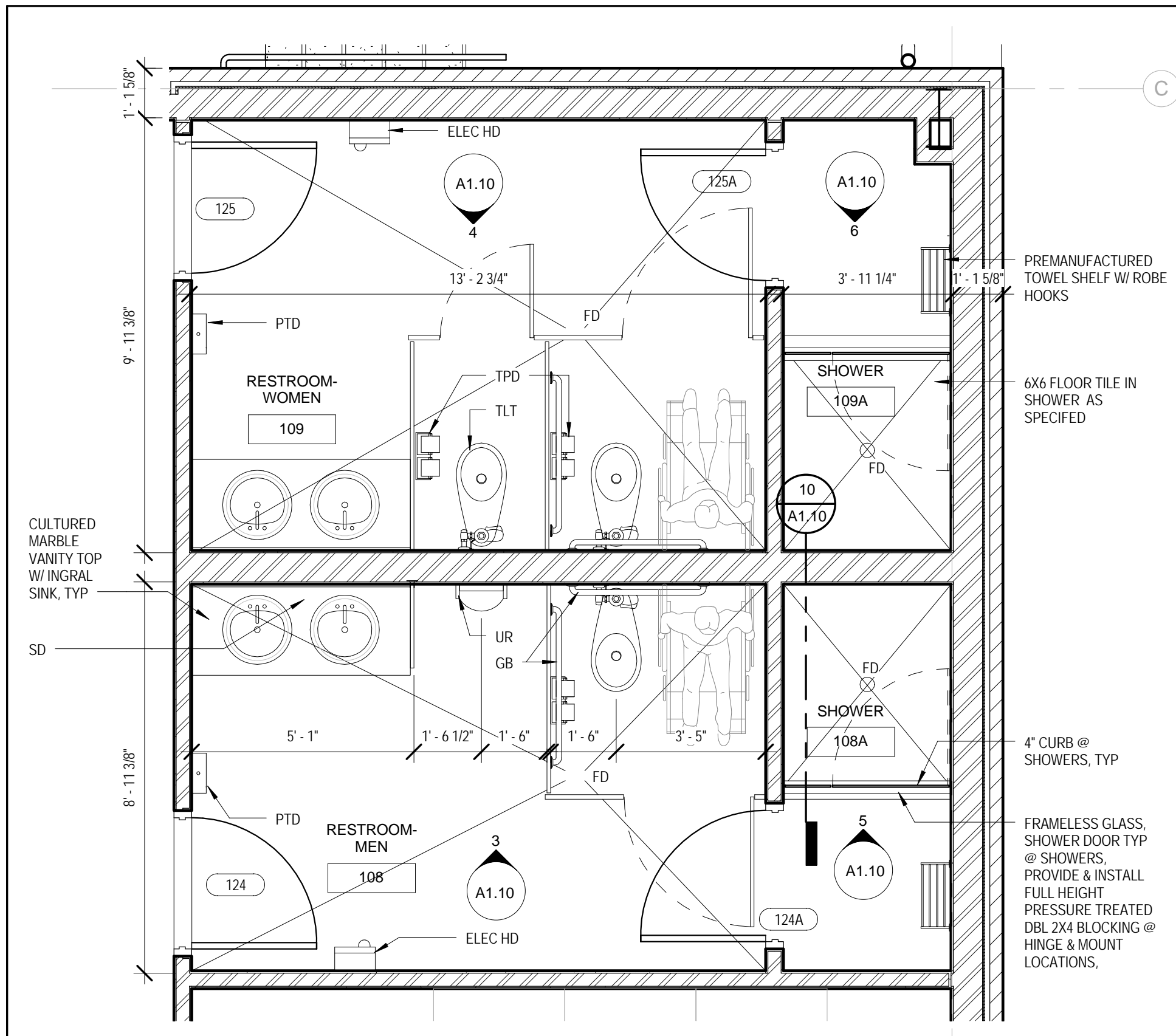
7 TYPICAL BOLLARD DETAIL
SCALE: N.T.S.



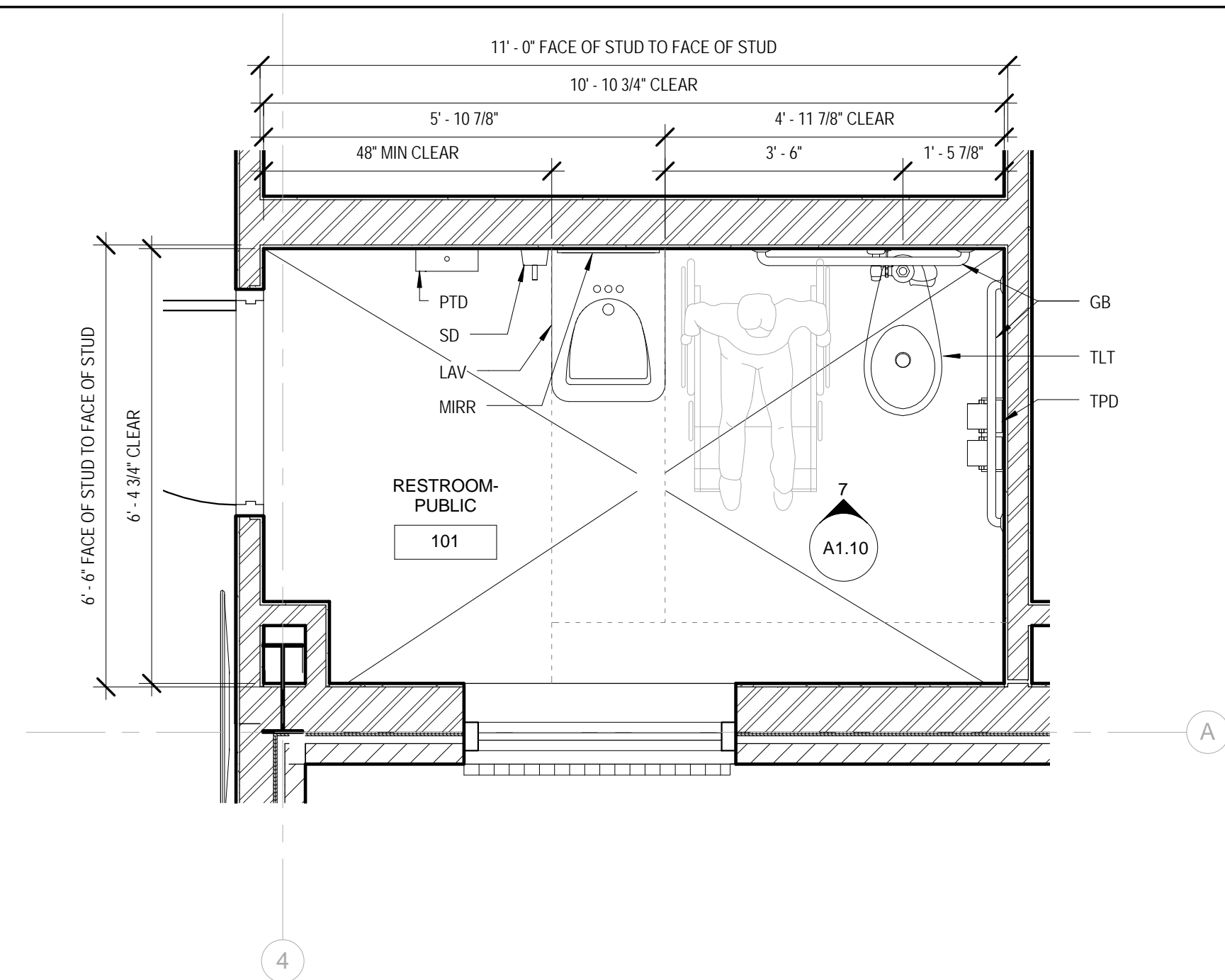
- 1 6", 4000 PSI PORTLAND CEMENT CONCRETE
- 2 #4 BARS @ 10" O.C.E.W T&B
- 3 10 MIL VISQUEEN VAPOR BARRIER
- 4 8" MIN. SAND FILL COMPACTED TO MIN. 95% OF THE MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT PER ASTM D-698. ADDITIONAL FILL MAY BE REQ'D BASED ON GRADES INDICATED.
- 5 NATURAL SUBGRADE.

8 6" CONC. PAD
SCALE: N.T.S.

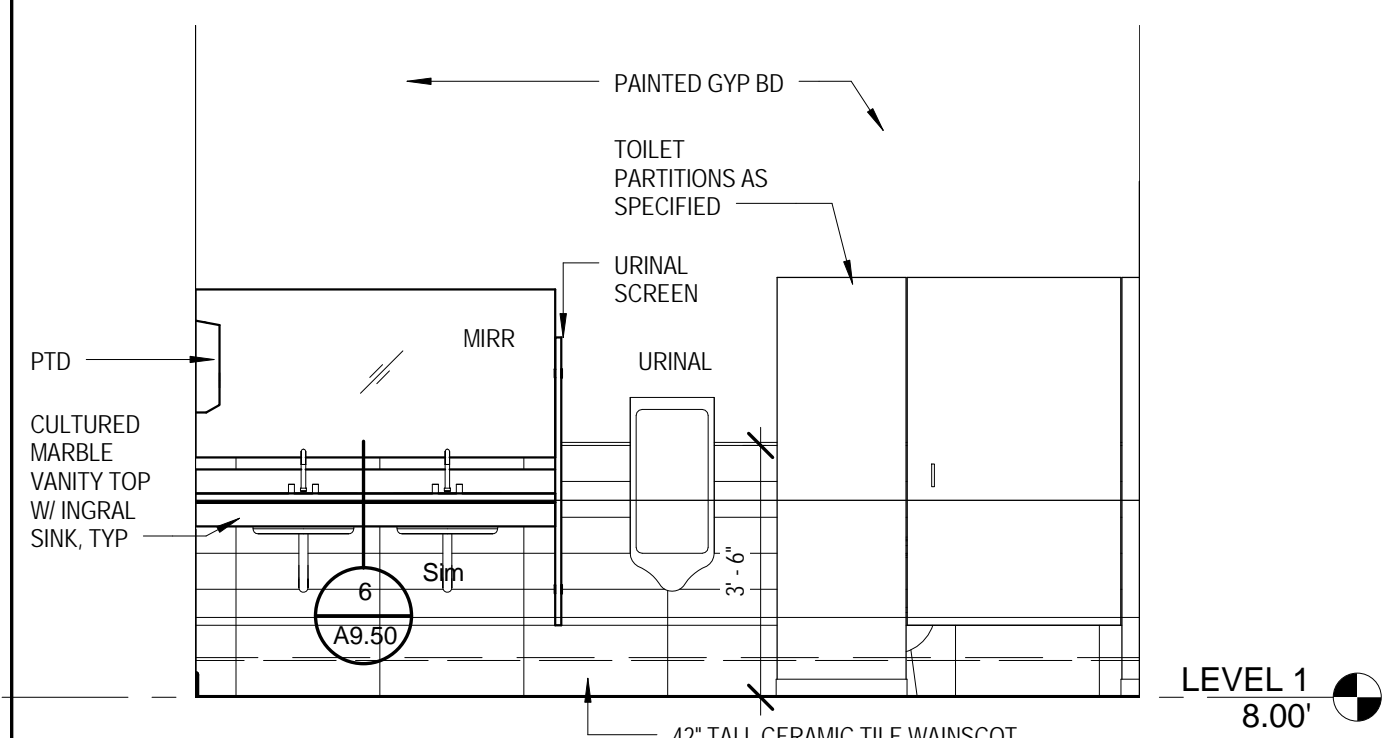
REVISIONS:		
No.	Date	Description



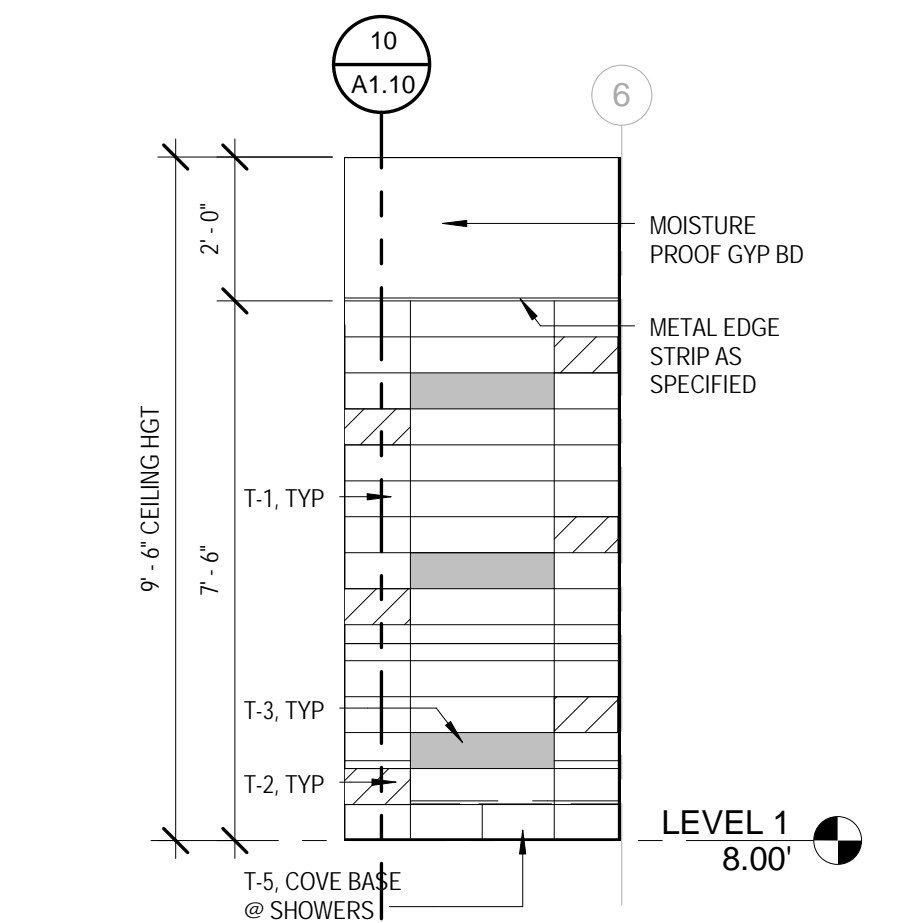
1 ENLARGED RESTROOMS
SCALE: 3/8" = 1'-0" REF: 1/A1.00



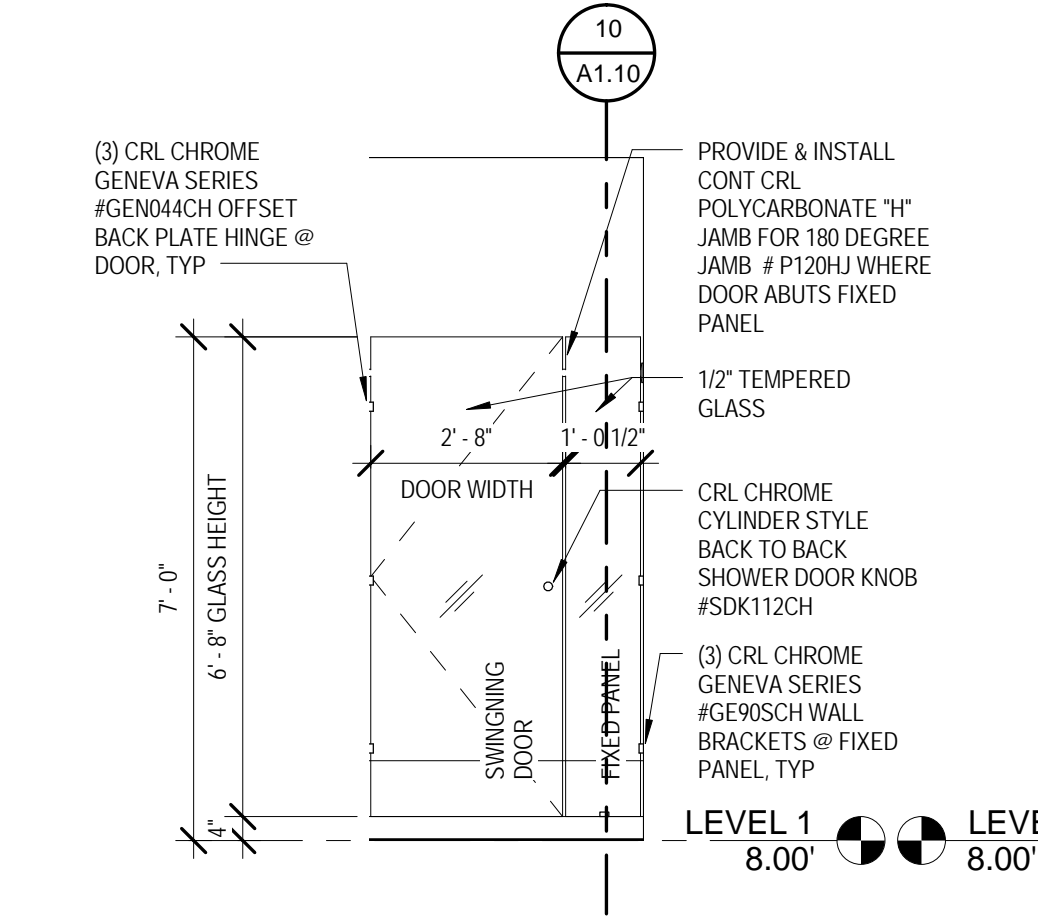
2 ENLARGED PUBLIC RESTROOMS
SCALE: 1/2" = 1'-0" REF: 1/A1.00



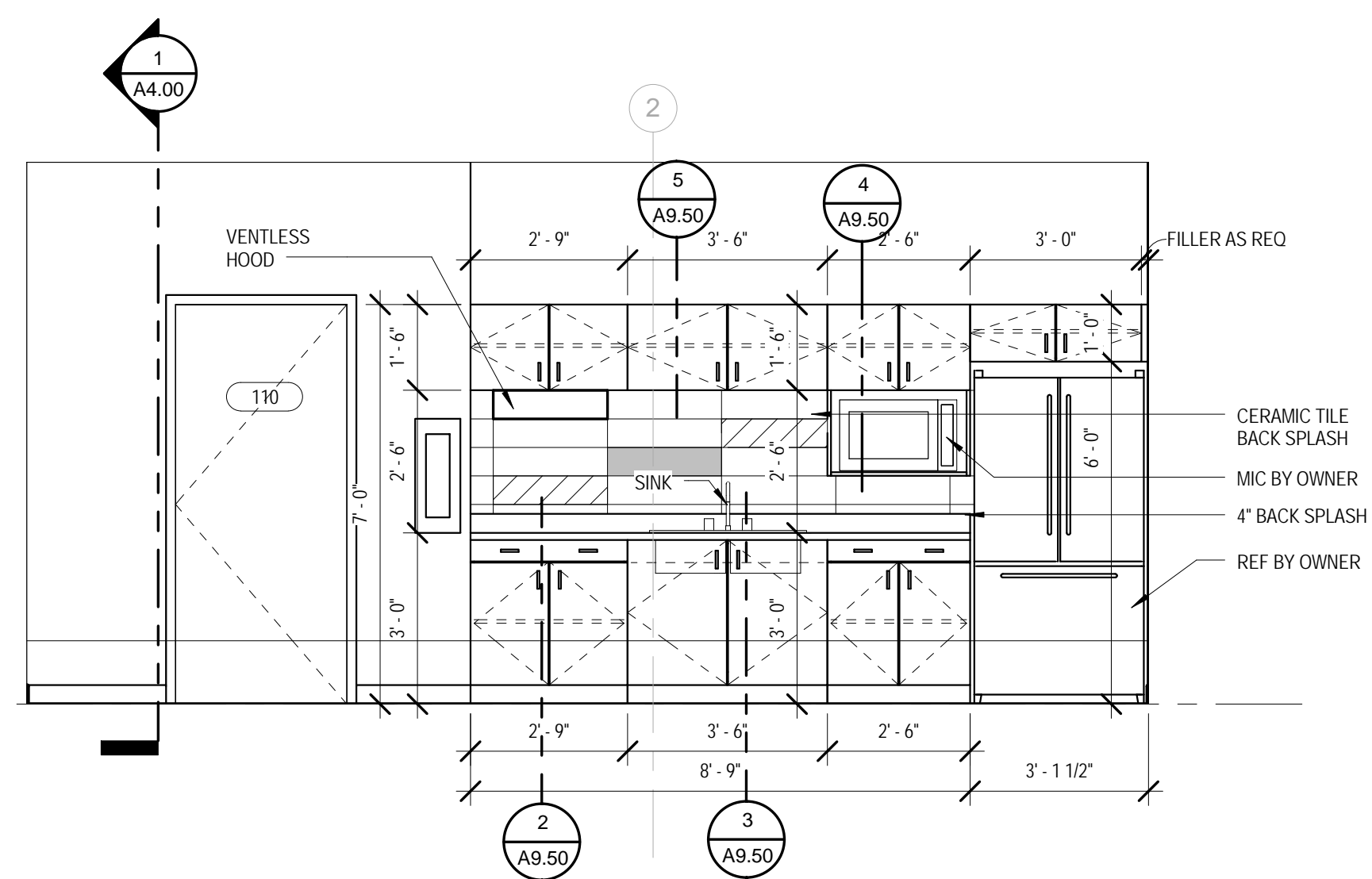
3 RESTROOM-MEN
SCALE: 3/8" = 1'-0" REF: 1/A1.10



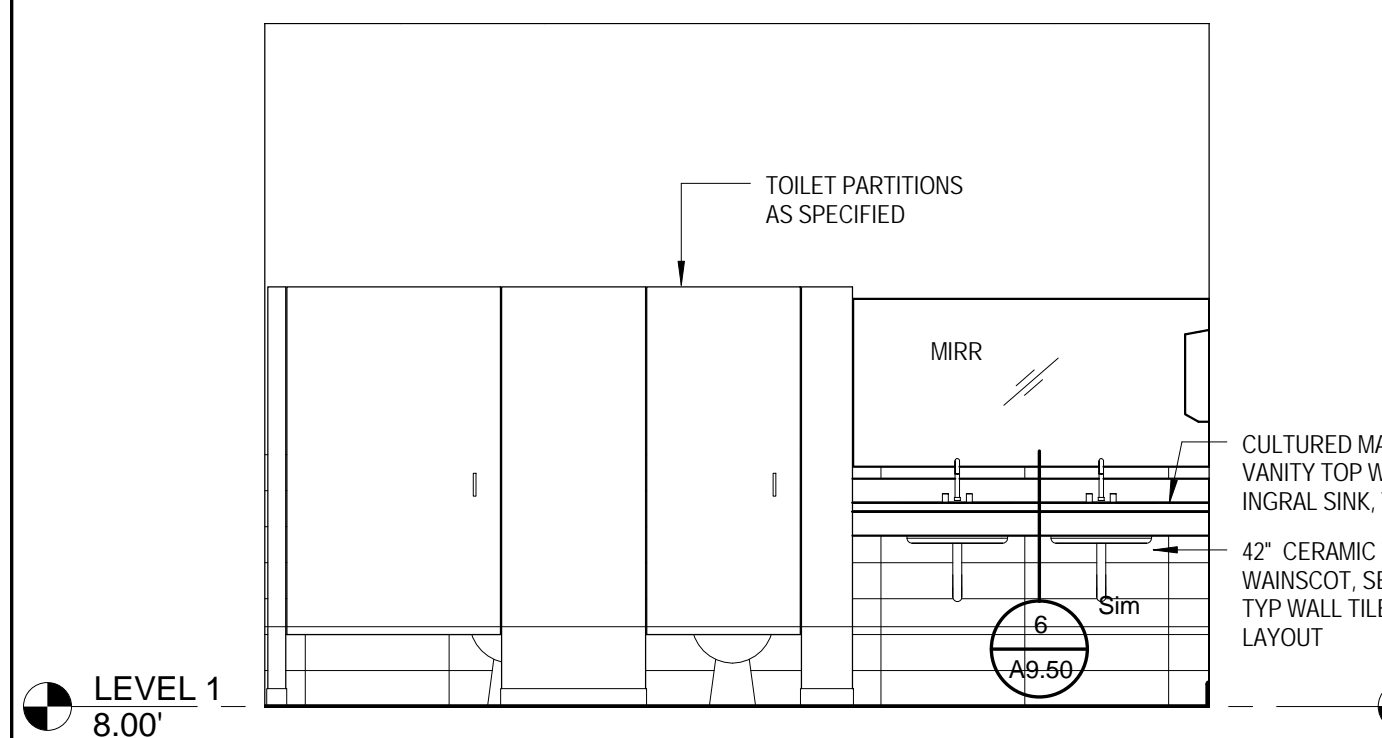
5 TYPICAL SHOWER ELEVATION
SCALE: 3/8" = 1'-0" REF: 1/A1.00



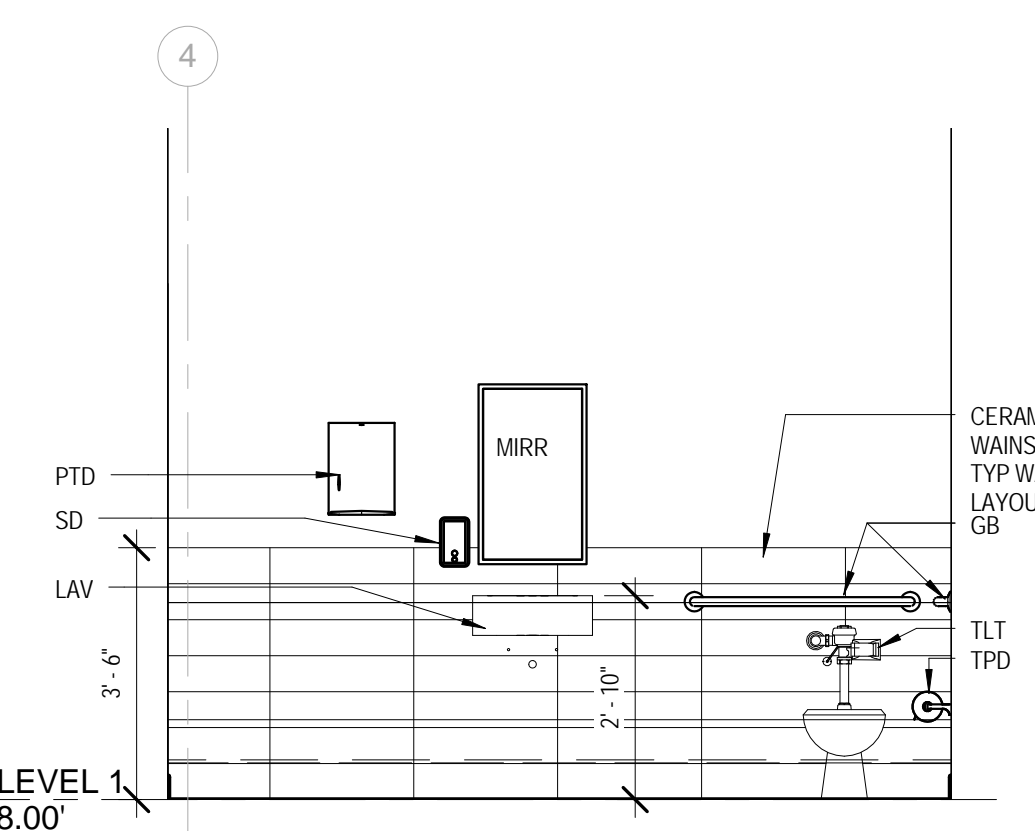
6 TYPICAL SHOWER DOOR
SCALE: 3/8" = 1'-0" REF: 1/A1.00



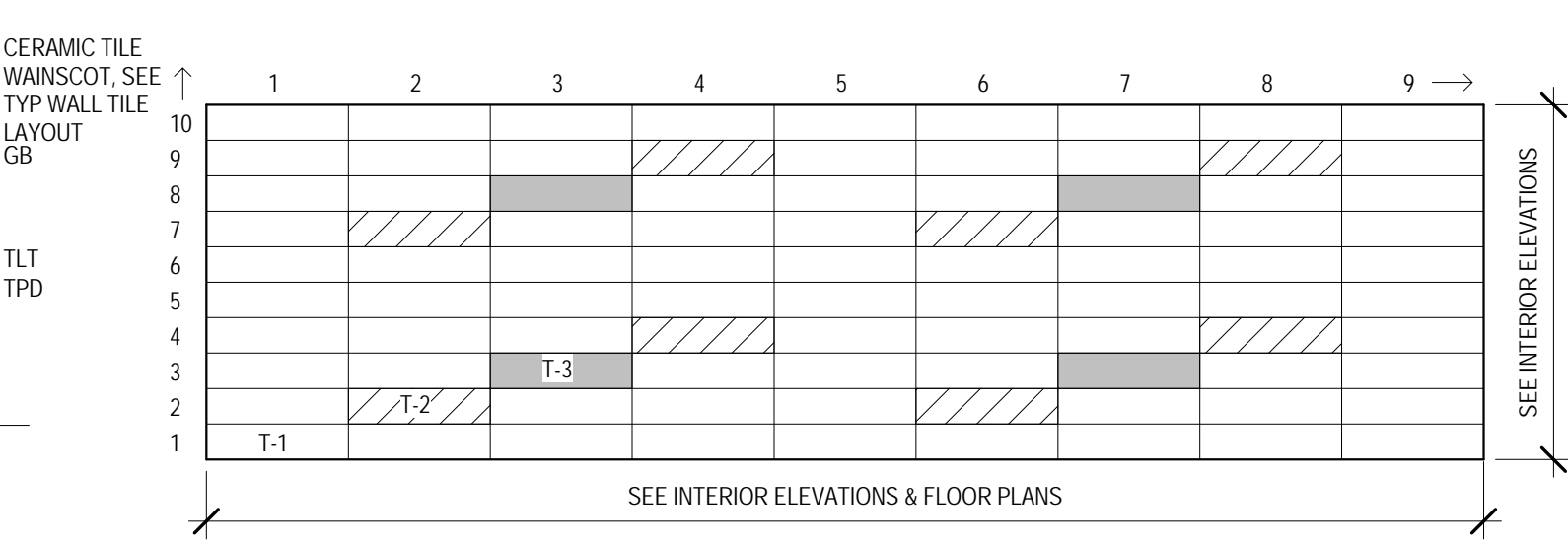
8 TROOP ROOM KITCHENETTE ELEVATION
SCALE: 3/8" = 1'-0" REF: 2/A4.00



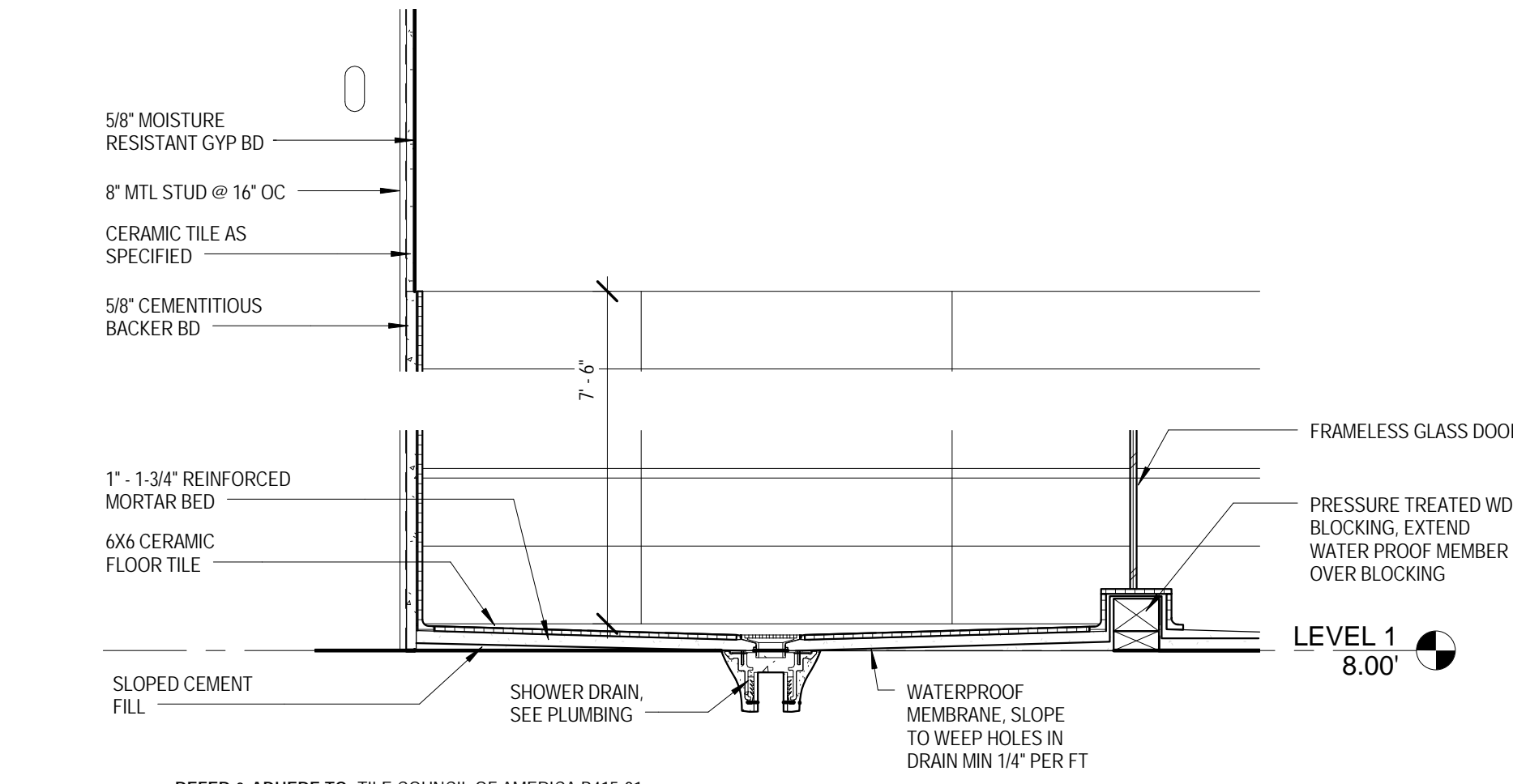
4 RESTROOM-WOMEN
SCALE: 3/8" = 1'-0" REF: 1/A1.10



7 PUBLIC RESTROOM
SCALE: 3/8" = 1'-0" REF: 2/A1.10



9 TYPICAL WALL TILE LAYOUT
SCALE: 3/8" = 1'-0" REF: 1/A1.10



10 SHOWER DETAIL
SCALE: 1" = 1'-0" REF: 1/A1.10

GENERAL NOTES: RESTROOMS

- 1. PLANS ARE FOR FIXTURE LOCATION ONLY. REFER TO ELEVATIONS & DETAIL SHEET ADA SHEET FOR MOUNTING HEIGHTS AND ADDITIONAL INFORMATION.
- 2. CLEAR FLOOR SPACE IS INDICATED BY DASHED LINES AND ADA CLEARANCE CIRCLE.
- 3. HIGHEST OPERABLE PART OF ANY TOILET RM. ACCESSORY SHALL BE MOUNTED NO GREATER THAN 40" A.F.F. IN ACCESSIBLE STALLS. MOUNT COAT HOOK ACCESSORY AT THIS HEIGHT ON INSIDE CENTER OF ALL TOILET ROOM DOORS. MOUNT OTHER STALL COAT HOOKS AT 60" A.F.F.
- 4. CONFIRM RECESSED ACCESSORIES WITH SCHEDULED WALL TYPES AND NOTIFY ARCHITECT OF ANY CONFLICTS PRIOR TO ORDERING ANY ACCESSORIES.
- 5. ALL TOILET RM. FIXTURES AND TOILET RM. ACCESSORIES ARE TO COMPLY WITH THE STATE OF LOUISIANA, TO BE A.D.A. COMPLIANT WHERE APPLICABLE, AND ABIDE BY ANY OTHER APPLICABLE CODES.
- 6. WATER RESISTANT GYPSUM WALL BOARD AT ALL WET AREAS.
- 7. REFER TO SPEC SECTIONS FOR TOILET PARTITION AND URINAL SCREEN SPECIFICATION INFORMATION.

DATE: 4-25-14
PROJECT NO.: 01-09-1082-02

REVISIONS:

No.	Date	Description

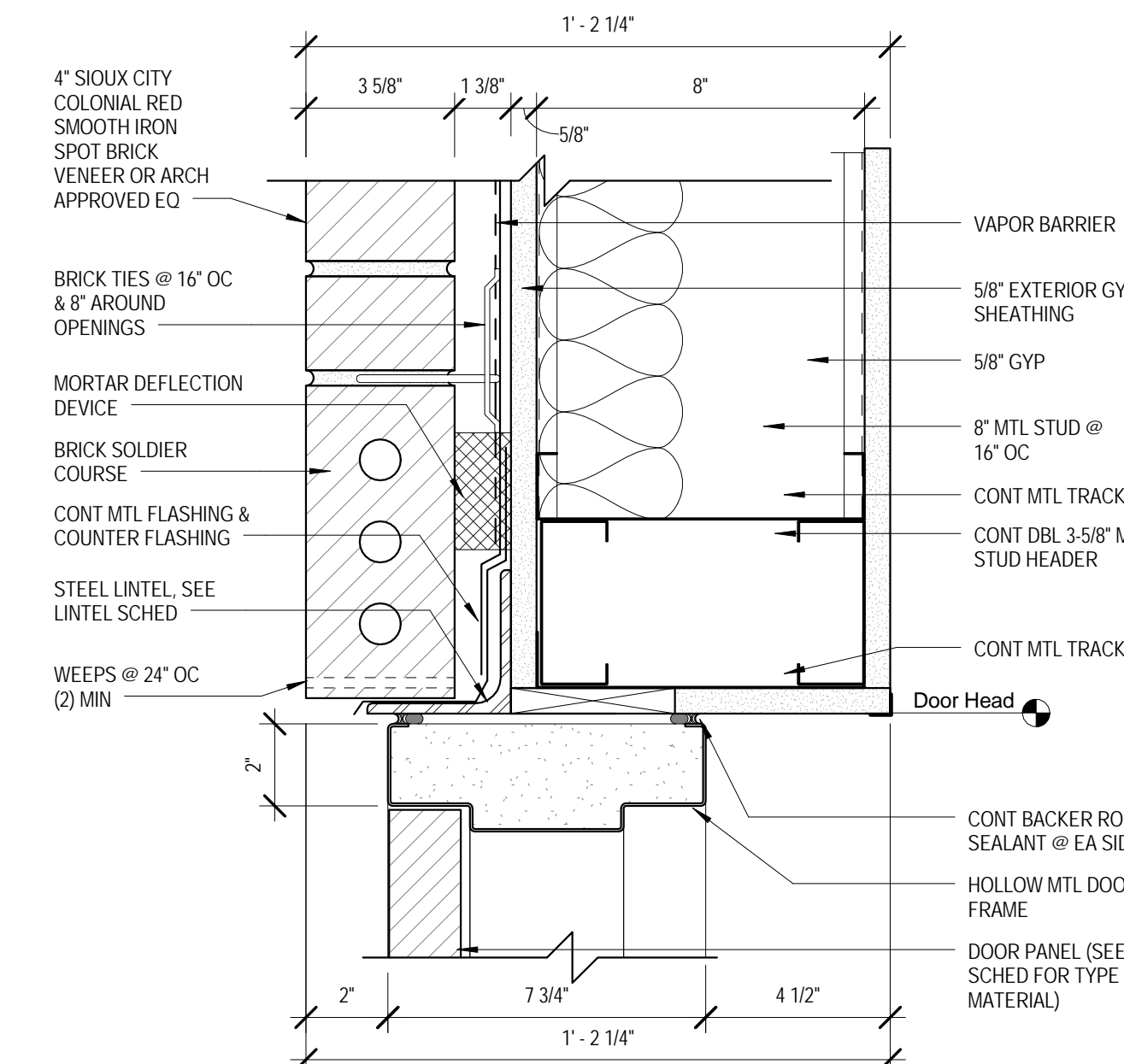
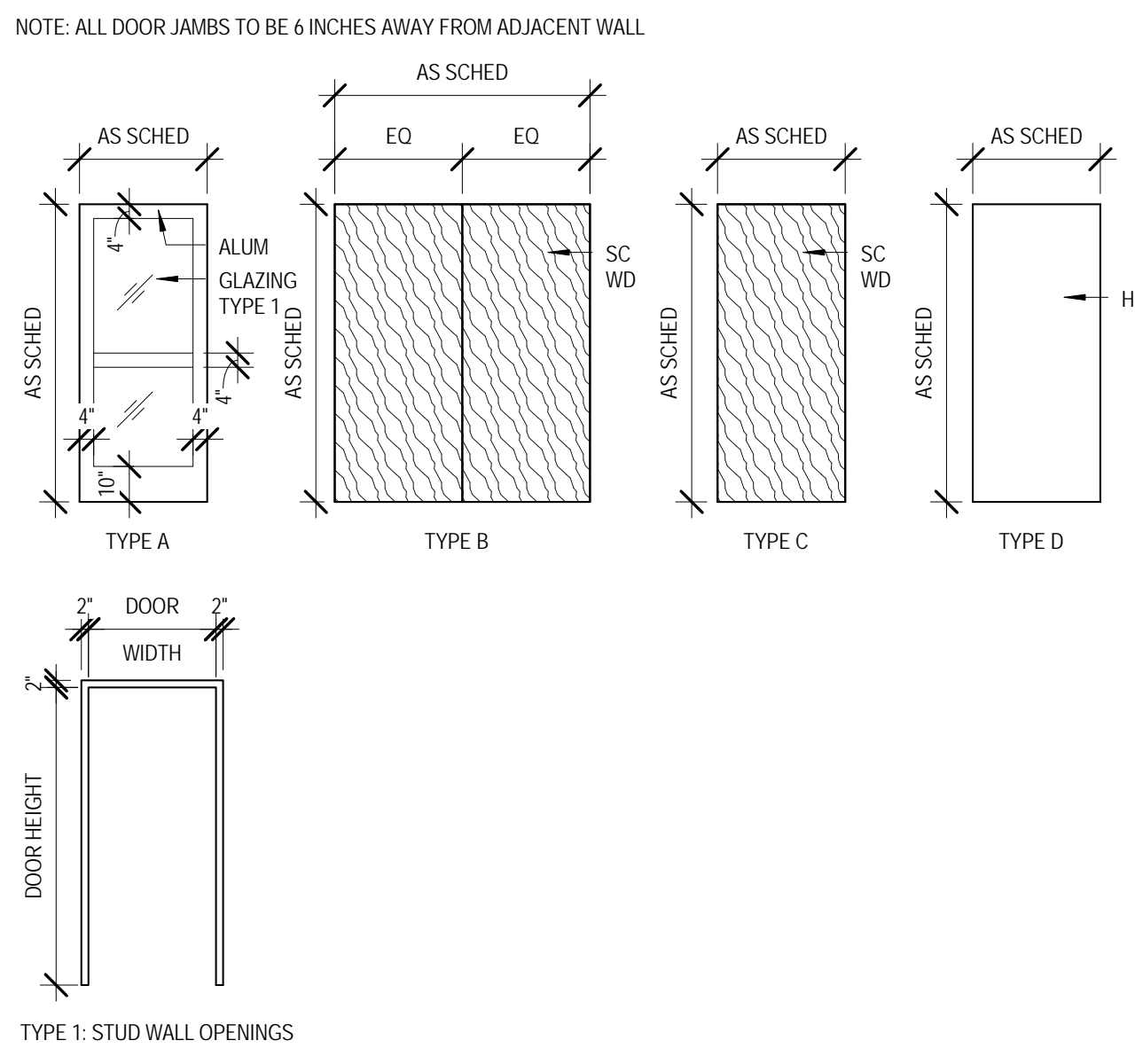
DRAWN BY: ERIVERS
CHECKED BY: PLYONS
SHEET TITLE: ENLARGED PLANS & INTERIOR ELEVATIONS
SHEET NO.

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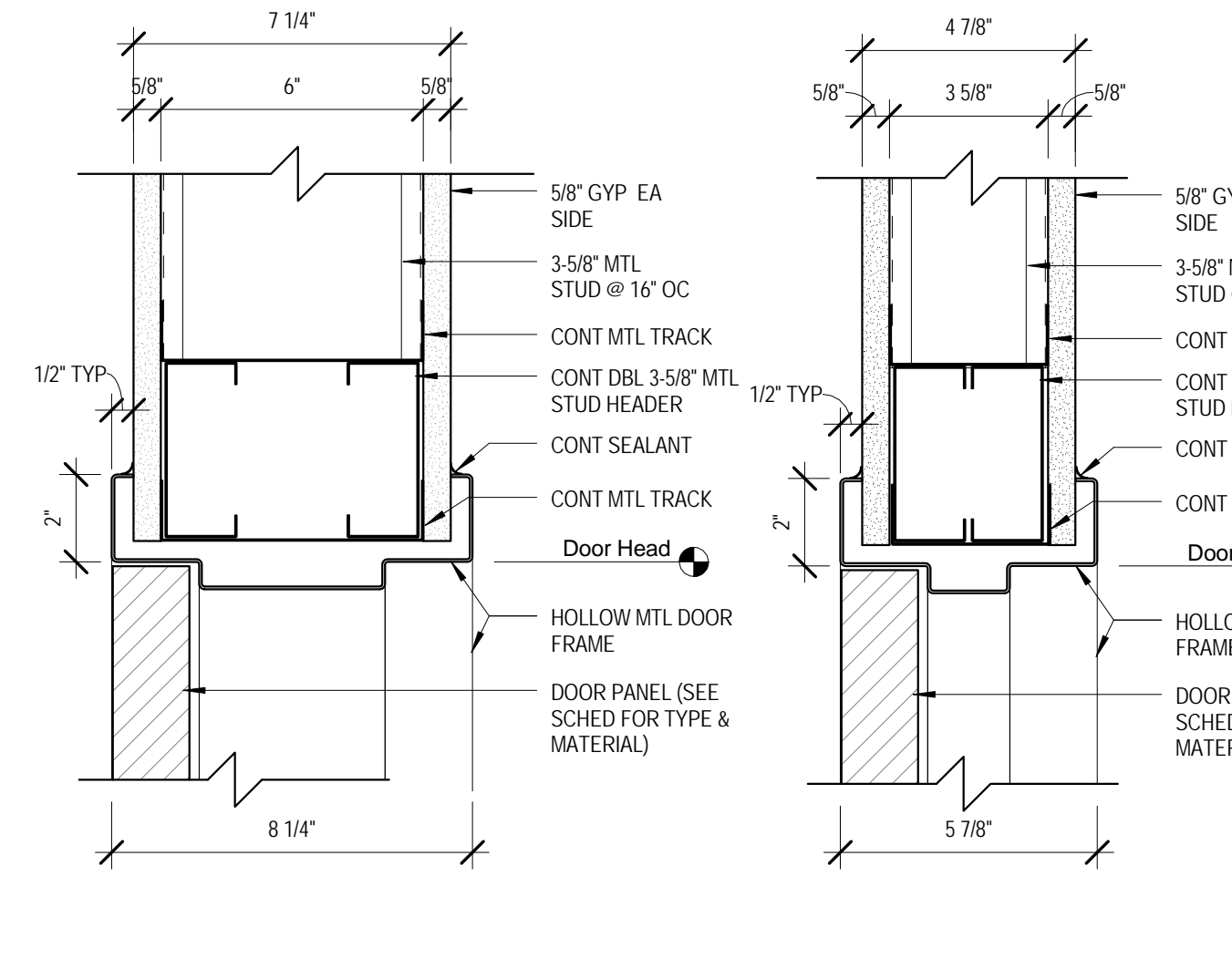
Door Schedule - Overall															
NUMBER	DOOR IDENTIFICATION			DOOR CONSTRUCTION			FRAME CONSTRUCTION			FIRE RATING	HARDWARE SET	DETAILS			REMARKS
	WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH			HEAD	JAMB	SILL	
100	3'-0"	7'-0"	1 3/4"	A	ALUM	SEE REMARKS	---	---	---	---	---	---	---	DARK BRONZE ANODIZED ALUM	
101	6'-0"	7'-0"	1 3/4"	B	SC WOOD	PNTD	1	HM	PNTD	---	2	5/A200	6/A200	8/A200	SEE INTERIOR ELEVATIONS
102	3'-0"	7'-0"	1 3/4"	C	SC WOOD	PNTD	1	HM	PNTD	---	3	5/A200	6/A200	8/A200	SEE INTERIOR ELEVATIONS
103	3'-0"	7'-0"	1 3/4"	C	SC WOOD	PNTD	1	HM	PNTD	---	5	5/A200	6/A200	8/A200	SEE INTERIOR ELEVATIONS
104	2'-0"	7'-0"	1 3/4"	C	SC WOOD	PNTD	1	HM	PNTD	---	4	5/A200	6/A200	8/A200	SEE INTERIOR ELEVATIONS
105	3'-0"	7'-0"	1 3/4"	C	SC WOOD	PNTD	1	HM	PNTD	---	5	5/A200	6/A200	8/A200	SEE INTERIOR ELEVATIONS
106	3'-0"	7'-0"	1 3/4"	C	SC WOOD	PNTD	1	HM	PNTD	---	5	5/A200	6/A200	8/A200	SEE INTERIOR ELEVATIONS
107	2'-6"	7'-0"	1 3/4"	C	SC WOOD	PNTD	1	HM	PNTD	---	4	5/A200	6/A200	8/A200	SEE INTERIOR ELEVATIONS
108	3'-0"	7'-0"	1 3/4"	C	SC WOOD	PNTD	1	HM	PNTD	---	6	5/A200	6/A200	8/A200	SEE INTERIOR ELEVATIONS
109	3'-0"	7'-0"	1 3/4"	C	SC WOOD	PNTD	1	HM	PNTD	---	5	3/A200	4/A200	8/A200	SEE INTERIOR ELEVATIONS
110	3'-0"	7'-0"	1 3/4"	C	SC WOOD	PNTD	1	HM	PNTD	---	5	3/A200	4/A200	8/A200	SEE INTERIOR ELEVATIONS
111	3'-0"	7'-0"	1 3/4"	D	FLUSH HM	PNTD	1	HM	PNTD	---	4	5/A200	6/A200	8/A200	SEE INTERIOR ELEVATIONS
112	3'-0"	7'-0"	1 3/4"	D	FLUSH HM	PNTD	1	HM	PNTD	---	4	5/A200	6/A200	8/A200	SEE INTERIOR ELEVATIONS
113	3'-0"	7'-0"	1 3/4"	D	FLUSH HM	PNTD	1	HM	PNTD	---	9	5/A200	6/A200	8/A200	SEE INTERIOR ELEVATIONS
114	3'-0"	7'-0"	1 3/4"	D	FLUSH HM	PNTD	1	HM	PNTD	---	4	1/A200	2/A200	7/A200	SEE INTERIOR ELEVATIONS
115	3'-0"	7'-0"	1 3/4"	D	FLUSH HM	PNTD	1	HM	PNTD	---	4	5/A200	6/A200	8/A200	SEE INTERIOR ELEVATIONS
116	3'-0"	7'-0"	1 3/4"	C	SC WOOD	PNTD	1	HM	PNTD	---	5	3/A200	4/A200	8/A200	SEE INTERIOR ELEVATIONS
117	3'-0"	7'-0"	1 3/4"	C	SC WOOD	PNTD	1	HM	PNTD	---	4	5/A200	6/A200	8/A200	SEE INTERIOR ELEVATIONS
118	3'-0"	7'-0"	1 3/4"	C	SC WOOD	PNTD	1	HM	PNTD	---	4	5/A200	6/A200	8/A200	SEE INTERIOR ELEVATIONS
119	3'-0"	7'-0"	1 3/4"	C	SC WOOD	PNTD	1	HM	PNTD	---	6	5/A200	6/A200	8/A200	SEE INTERIOR ELEVATIONS
120	3'-0"	7'-0"	1 3/4"	C	SC WOOD	PNTD	1	HM	PNTD	---	5	5/A200	6/A200	8/A200	SEE INTERIOR ELEVATIONS
121	3'-0"	7'-0"	1 3/4"	C	SC WOOD	PNTD	1	HM	PNTD	---	5	5/A200	6/A200	8/A200	SEE INTERIOR ELEVATIONS
122	3'-0"	7'-0"	1 3/4"	D	FLUSH HM	PNTD	1	HM	PNTD	---	8	5/A200	6/A200	8/A200	SEE INTERIOR ELEVATIONS
123	3'-0"	7'-0"	1 3/4"	C	SC WOOD	PNTD	1	HM	PNTD	---	9	5/A200	6/A200	8/A200	SEE INTERIOR ELEVATIONS
124	3'-0"	7'-0"	1 3/4"	C	SC WOOD	PNTD	1	HM	PNTD	---	7	5/A200	6/A200	9/A200	SEE INTERIOR ELEVATIONS
124A	3'-0"	7'-0"	1 3/4"	C	SC WOOD	PNTD	1	HM	PNTD	---	---	---	---	---	SEE INTERIOR ELEVATIONS
125	3'-0"	7'-0"	1 3/4"	C	SC WOOD	PNTD	1	HM	PNTD	---	7	5/A200	6/A200	9/A200	SEE INTERIOR ELEVATIONS
125A	3'-0"	7'-0"	1 3/4"	C	SC WOOD	PNTD	1	HM	PNTD	---	---	---	---	---	SEE INTERIOR ELEVATIONS
126	3'-0"	7'-0"	1 3/4"	D	FLUSH HM	PNTD	1	HM	PNTD	---	9	1/A200	2/A200	7/A200	SEE INTERIOR ELEVATIONS

FINISH SCHEDULE						
NUMBER	NAME	FLOOR	BASE	WALLS	CEILING	COMMENTS
100	RECEPTION	VCT	R.B.	GYP. BD.	TYPE A	SEE DETAILS
101	RESTROOM- PUBLIC	Tile	Tile	TILE: GYP. BD.	TYPE A	SEE INTERIOR ELEVATIONS
102	CORRIDOR	VCT	R.B.	GYP. BD.	TYPE B	SEE INTERIOR ELEVATIONS
103	I.T.	VCT	R.B.	GYP. BD.	TYPE B	SEE INTERIOR ELEVATIONS
104	OFFICE	CPT	R.B.	GYP. BD.	TYPE B	SEE INTERIOR ELEVATIONS
105	OFFICE	CPT	R.B.	GYP. BD.	TYPE B	SEE INTERIOR ELEVATIONS
106	CLOSET	VCT	R.B.	GYP. BD.	TYPE B	SEE INTERIOR ELEVATIONS
107	OFFICE	CPT	R.B.	GYP. BD.	TYPE B	SEE INTERIOR ELEVATIONS
108	RESTROOM- MEN	Tile	Tile	TILE: GYP. BD.	TYPE A	SEE INTERIOR ELEVATIONS
108A	SHOWER					
109	RESTROOM- WOMEN	Tile	Tile	TILE: GYP. BD.	TYPE A	SEE INTERIOR ELEVATIONS
109A	SHOWER					
110	CORRIDOR	VCT	R.B.	GYP. BD.	TYPE B	SEE INTERIOR ELEVATIONS
111	BRIEFING ROOM	CVT	R.B.	GYP. BD.	TYPE B	SEE INTERIOR ELEVATIONS
112	OFFICE	CPT	R.B.	GYP. BD.	TYPE B	SEE INTERIOR ELEVATIONS
113	OFFICE	CPT	R.B.	GYP. BD.	TYPE B	SEE INTERIOR ELEVATIONS
114	ROLL CALL	CVT	R.B.	GYP. BD.	TYPE B	SEE INTERIOR ELEVATIONS
115	OFFICE	CPT	R.B.	GYP. BD.	TYPE B	SEE INTERIOR ELEVATIONS
116	OFFICE	CPT	R.B.	GYP. BD.	TYPE B	SEE INTERIOR ELEVATIONS
117	JANITORIAL	VCT	R.B.	GYP. BD.	TYPE B	SEE INTERIOR ELEVATIONS
118	OFFICE	CPT	R.B.	GYP. BD.	TYPE B	SEE INTERIOR ELEVATIONS
118A	MECH	CONC.		GYP. BD.	---	SEE INTERIOR ELEVATIONS
119	CL	VCT	R.B.	GYP. BD.	TYPE B	SEE INTERIOR ELEVATIONS
120	INTERVIEW	CPT	R.B.	GYP. BD.	TYPE B	SEE INTERIOR ELEVATIONS
120A	OFFICE	CPT	R.B.	GYP. BD.	TYPE B	SEE INTERIOR ELEVATIONS
120A	CL					

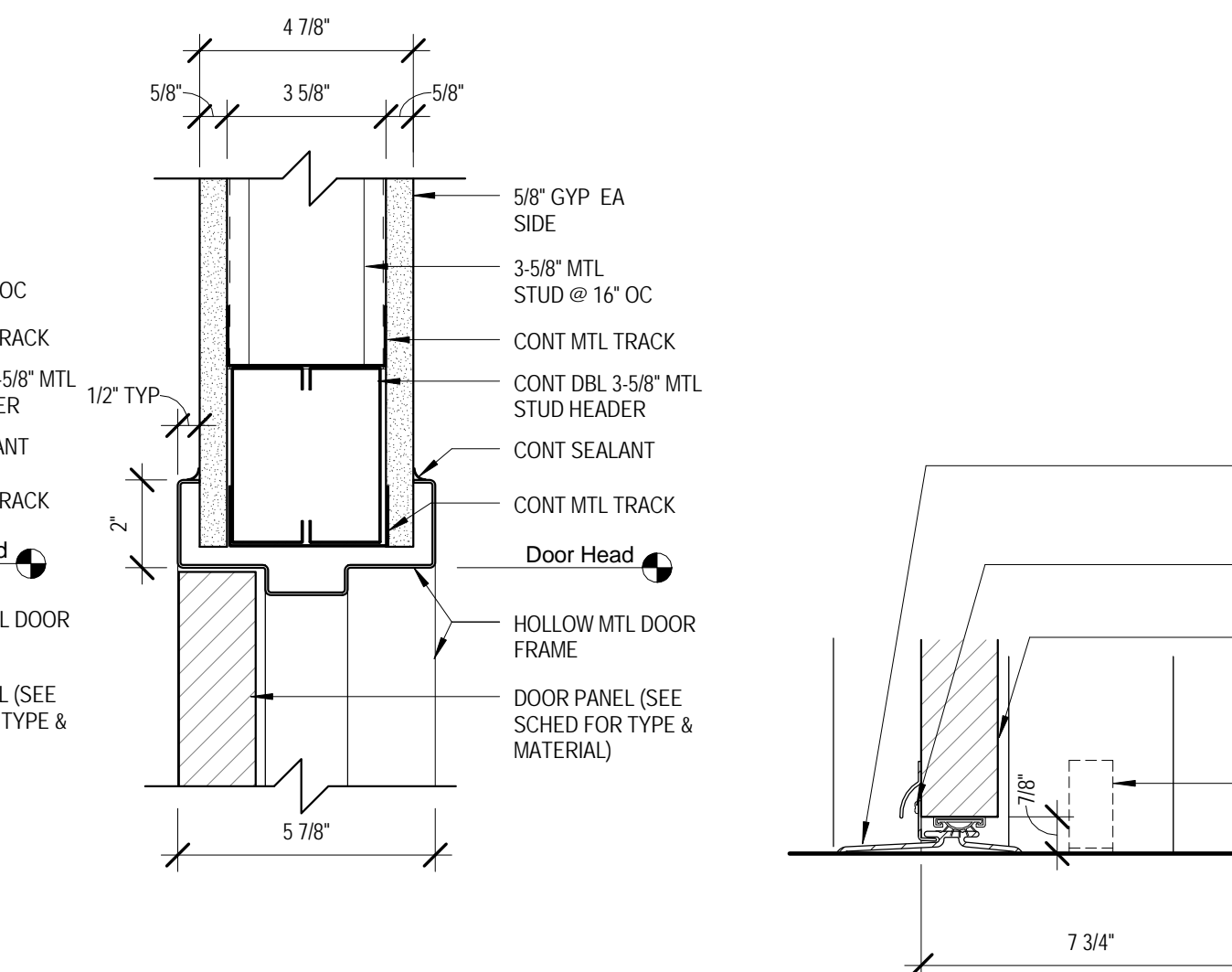
- GENERAL NOTES: DOOR**
- THE FOLLOWING IS TYPICAL FOR ALL WORK:
- ALL DOORS NOT SCHEDULED WITH HOURLY RATING HAVE NO HOURLY RATING REQUIREMENT.
 - ALL EXTERIOR STOREFRONT DOORS TO HAVE LAMINATED GLAZING UNITS. SEE SPECIFICATIONS FOR MORE INFORMATION.
 - ALL INTERIOR STOREFRONT DOORS TO HAVE SINGLE LITE OF TEMPERED GLAZING, U.N.O. SEE SPECIFICATIONS FOR MORE INFORMATION.
 - REFER TO WALL TYPES FOR FRAMING TYPES PER EACH DOOR TYPE. SEE DETAILS FOR APPROPRIATE WALL TYPE.
 - REFER TO DOOR HARDWARE SCHEDULE FOR HARDWARE SETS.
 - TYPICALLY, U.N.O. ALL DOORS' HINGE SIDE JAMB ARE 4" OFF FACE OF WALL OR CENTERED IN WALL.
 - REFER TO SPECIFICATIONS FOR MORE INFORMATION, INCLUDING, BUT NOT LIMITED TO, FIRE RATING REQUIREMENTS, SMOKE DOOR ASSEMBLY REQUIREMENTS, GLAZING REQUIREMENTS FOR DOORS AND RATED DOORS, ACOUSTICAL DOOR REQUIREMENTS AND FRAMES, HARDWARE, DOOR ACCESS CONTROL REQUIREMENTS AND OTHER SPECIFIC REQUIREMENTS ASSOCIATED WITH EACH DOOR.
 - ALL DOORS, THRESHOLDS (WHERE APPLICABLE), HARDWARE, DOOR ACCESS CONTROL COMPONENTS AND ASSOCIATED DOOR ASSEMBLIES, PARTS AND PIECES SHALL BE ACCESSIBLE. SEE SHEET T1.03 FOR SOME INFORMATION.
 - ALL ROOMS TO RECEIVE ROOM IDENTIFICATION SIGNAGE PER SPECIFICATIONS AND LOCATED ADJACENT TO THE LATCH SIDE OF THE DOOR, WHERE THERE IS NO WALL SPACE TO THE LATCH SIDE OF THE DOOR, INCLUDING DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL. MOUNTING SHALL BE 60" FROM FINISHED FLOOR TO THE CENTERLINE OF THE SIGN. MOUNTING LOCATION FOR SUCH SIGNAGE SHALL BE SO THAT A PERSON MAY APPROACH WITHIN 3 INCHES OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING IN THE SWING OF THE DOOR.
 - SEE SPECIAL SYSTEMS DWGS FOR DOORS TO RECEIVE ACCESS CONTROL CARD READERS. REFER TO SPECIFICATIONS FOR MORE INFORMATION.
 - ALL OVERHEAD COILING DOORS AND COUNTER DOORS TO BE MANUALLY OPERATED. SEE SPECIFICATIONS FOR MORE INFORMATION.
 - ALL DOORS AND ASSOCIATED FRAMES LOCATED WITHIN SMOKE PARTITIONS AS SHOWN IN THE DRAWINGS TO BE INSTALLED PER NFPA 105, IN ADDITION TO OTHER REQUIREMENTS OUTLINED IN THE SPECIFICATIONS.



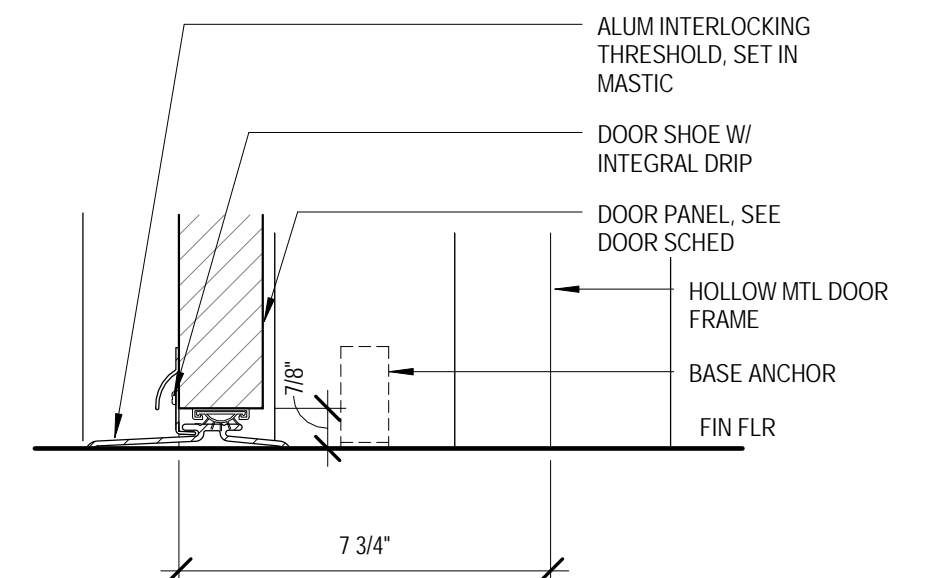
1 HEAD DETAIL
SCALE: 3" = 1'-0" REF: /



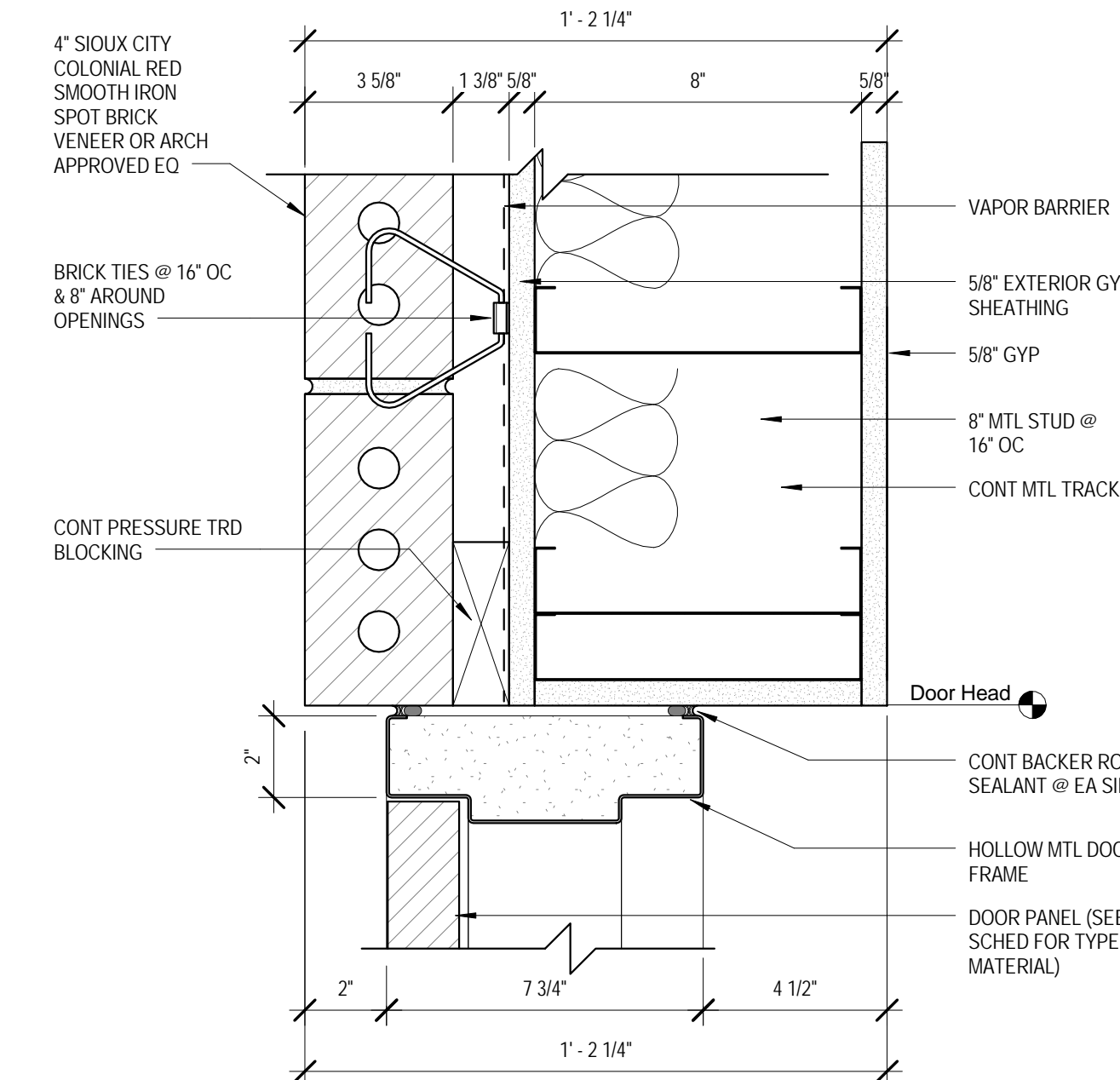
3 HEAD DETAIL
SCALE: 3" = 1'-0" REF: /



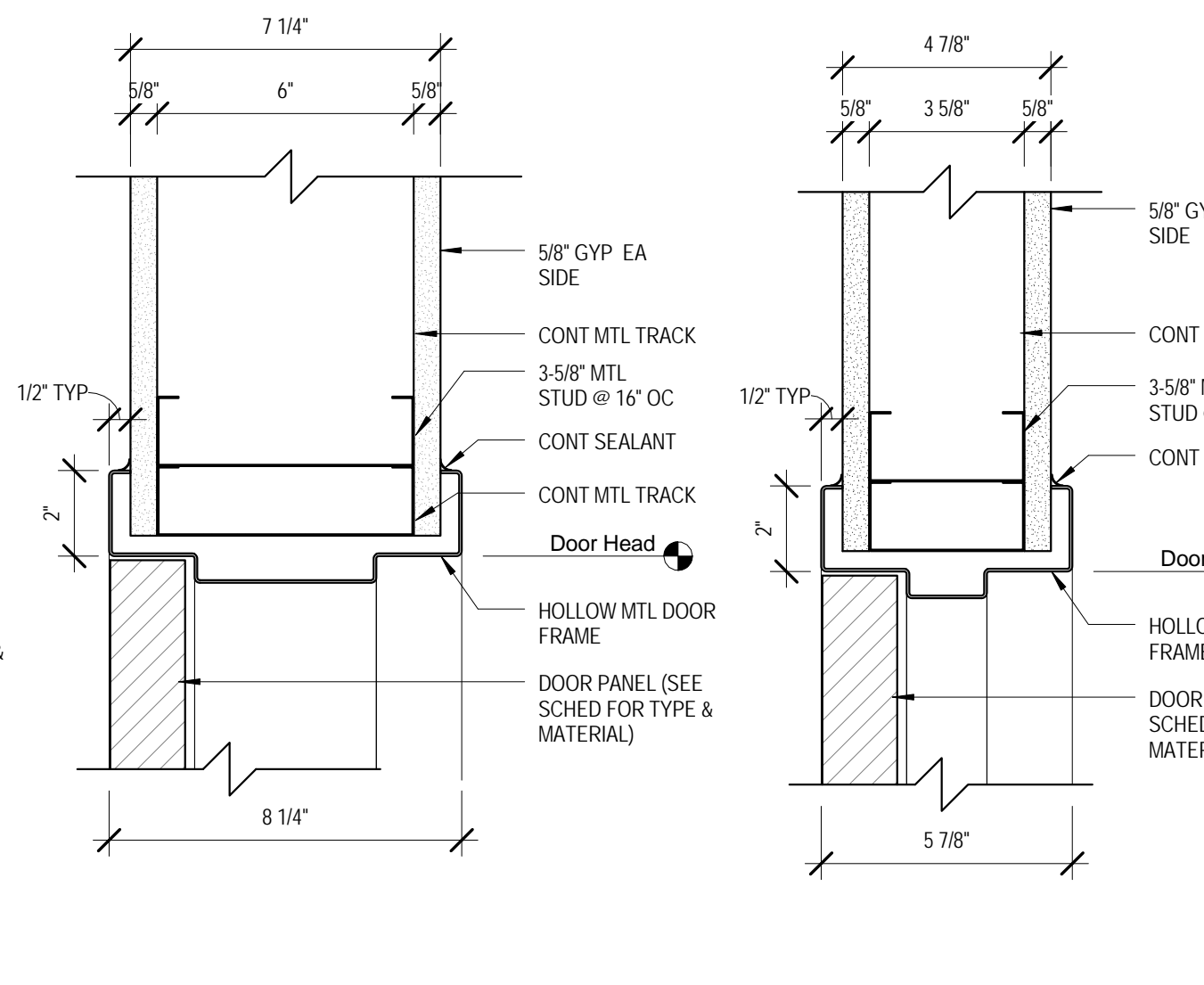
5 HEAD DETAIL
SCALE: 3" = 1'-0" REF: /



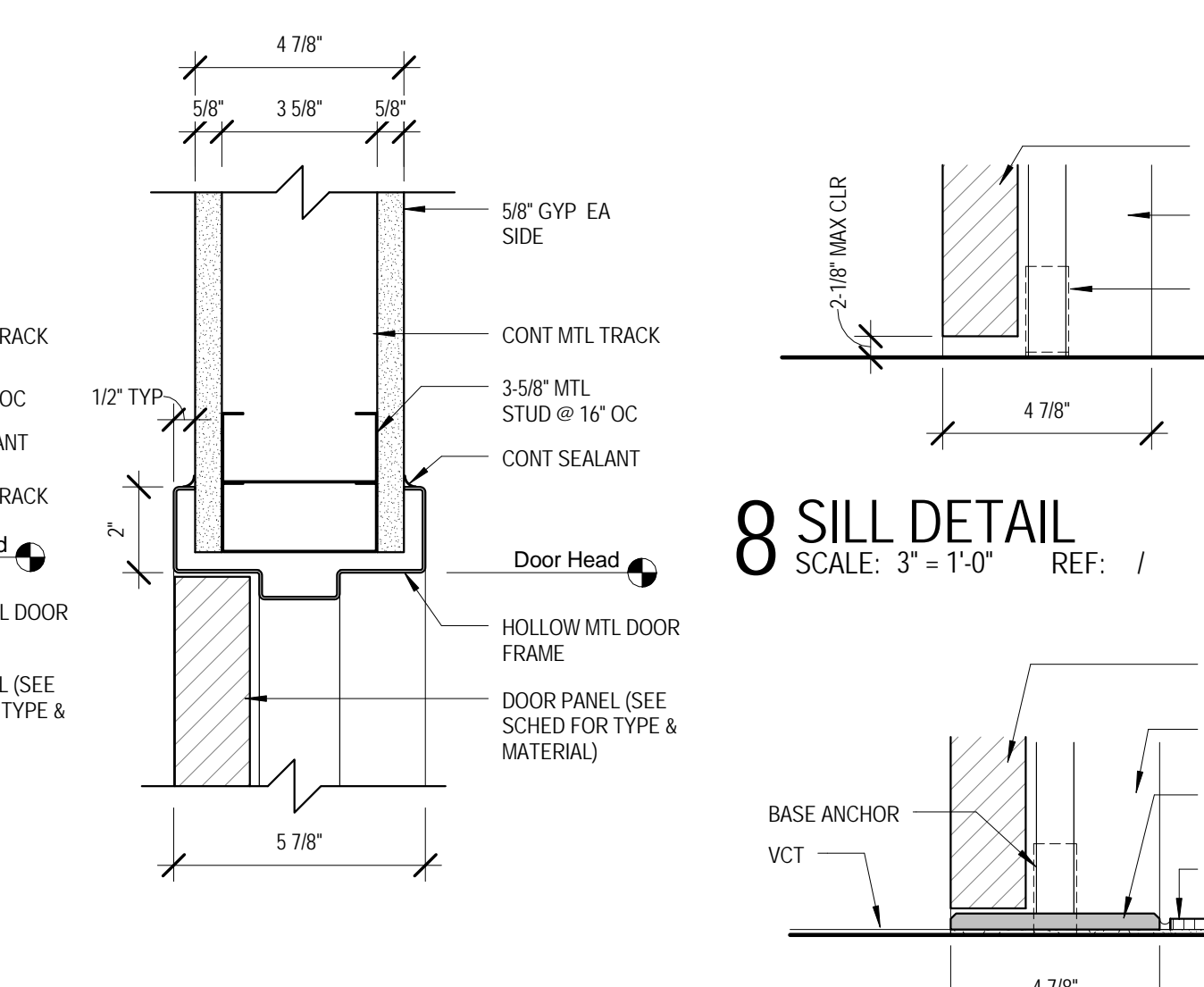
7 EXTERIOR SILL DETAIL
SCALE: 3" = 1'-0" REF: /



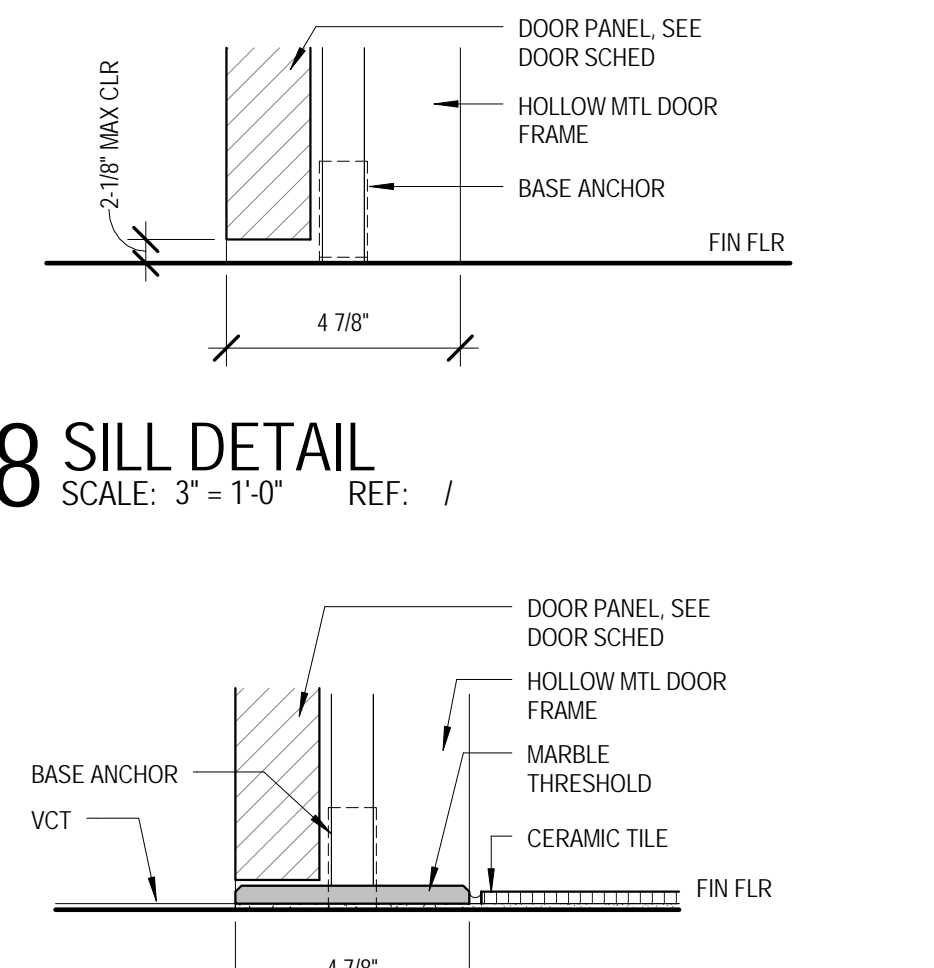
2 JAMB DETAIL
SCALE: 3" = 1'-0" REF: /



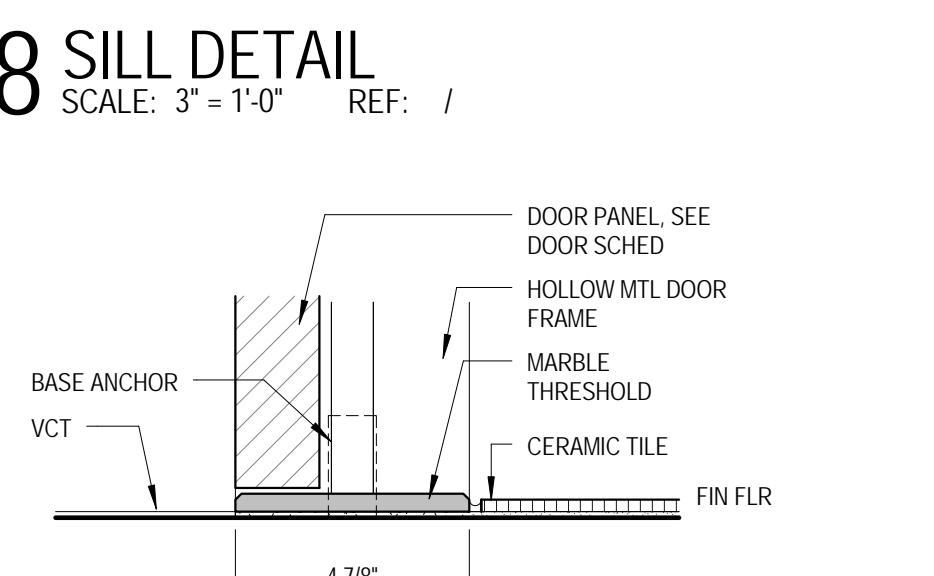
4 JAMB DETAIL
SCALE: 3" = 1'-0" REF: /



6 JAMB DETAIL
SCALE: 3" = 1'-0" REF: /



8 SILL DETAIL
SCALE: 3" = 1'-0" REF: /



9 SILL DETAIL BATHROOMS
SCALE: 3" = 1'-0" REF: /

Perez.
ARCHITECTURE
ENGINEERING
PLANNING
INTERIORS
LANDSCAPE
GRAPHICS
PEREZ
A PROFESSIONAL CORPORATION
317 BURGUNDY STREET, SUITE 11
NEW ORLEANS, LA 70112
WWW.PEREZ.COM

St Bernard Parish Sheriff's Substation #47
4700 PARIS ROAD CHALMETTE, LA 70043
CONSTRUCTION DOCUMENTS

DATE: 4-25-14
PROJECT NO.: 01-09-1082-02
REVISIONS:
No. Date Description
DRAWN BY: ERIVERS
CHECKED BY: PLYONS
SHEET TITLE
DOOR/ FINISH SCHEDULE AND DETAILS
SHEET NO
A2.00

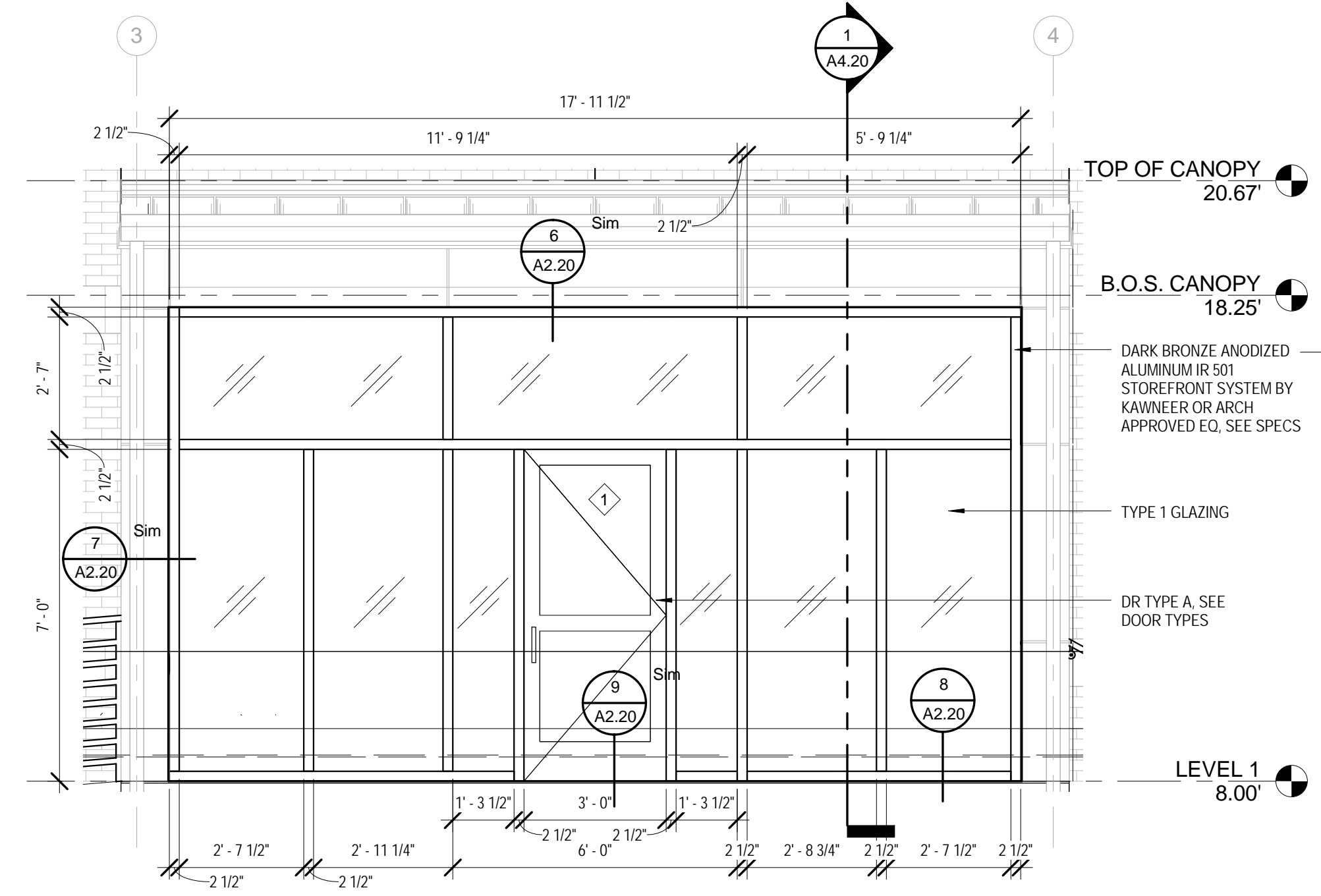
DATE: 4-25-14
PROJECT NO.: 01-09-1082-02

REVISIONS:		
No.	Date	Description

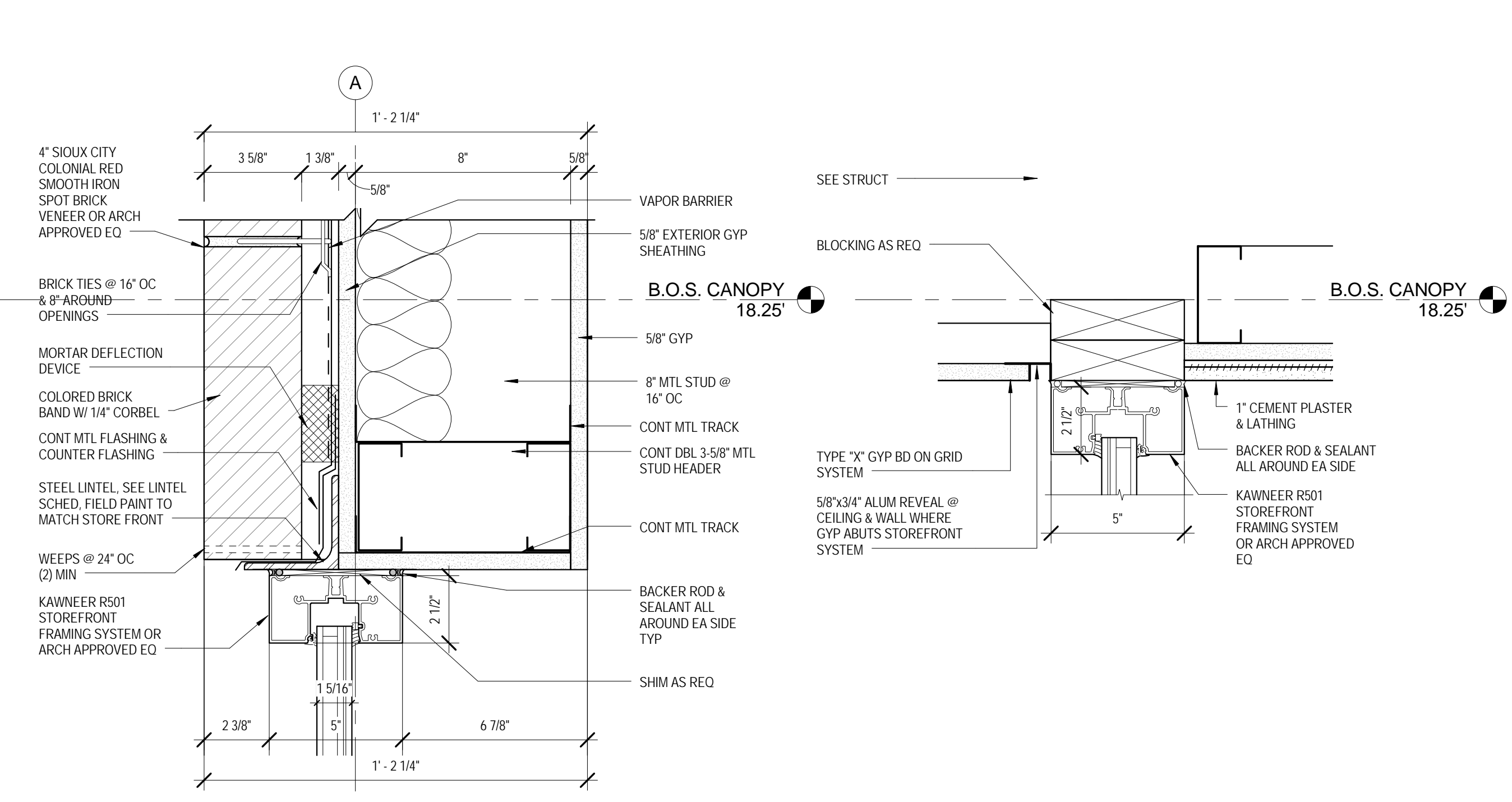
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CHECKED BY: PLYONS

SHEET TITLE
STOREFRONT ELEVATIONS AND DETAILS
SHEET NO

A2.20

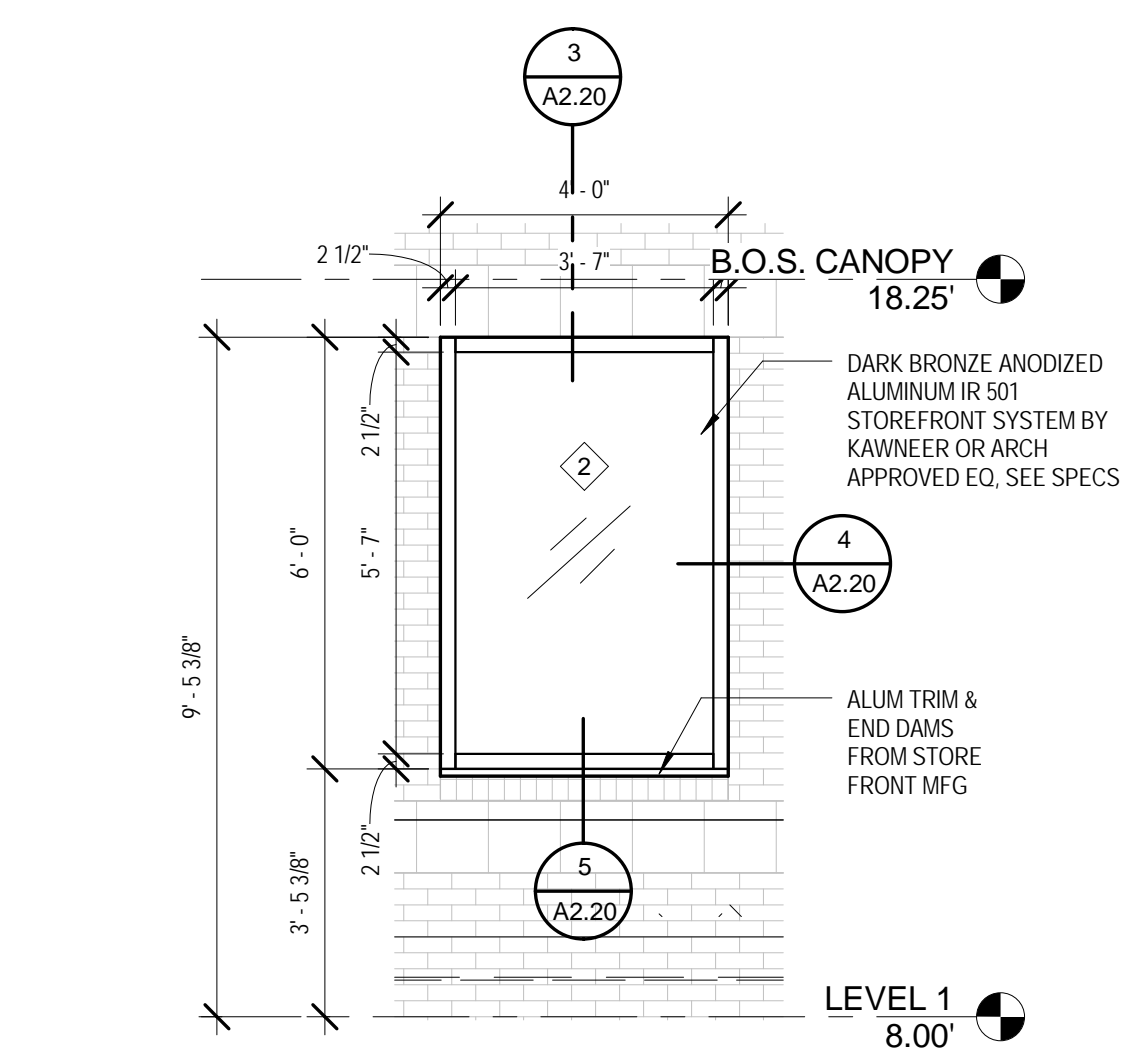


1 ENTRY STOREFRONT ELEVATION TYPE 1
SCALE: 3/8" = 1'-0" REF: 1/A3.00

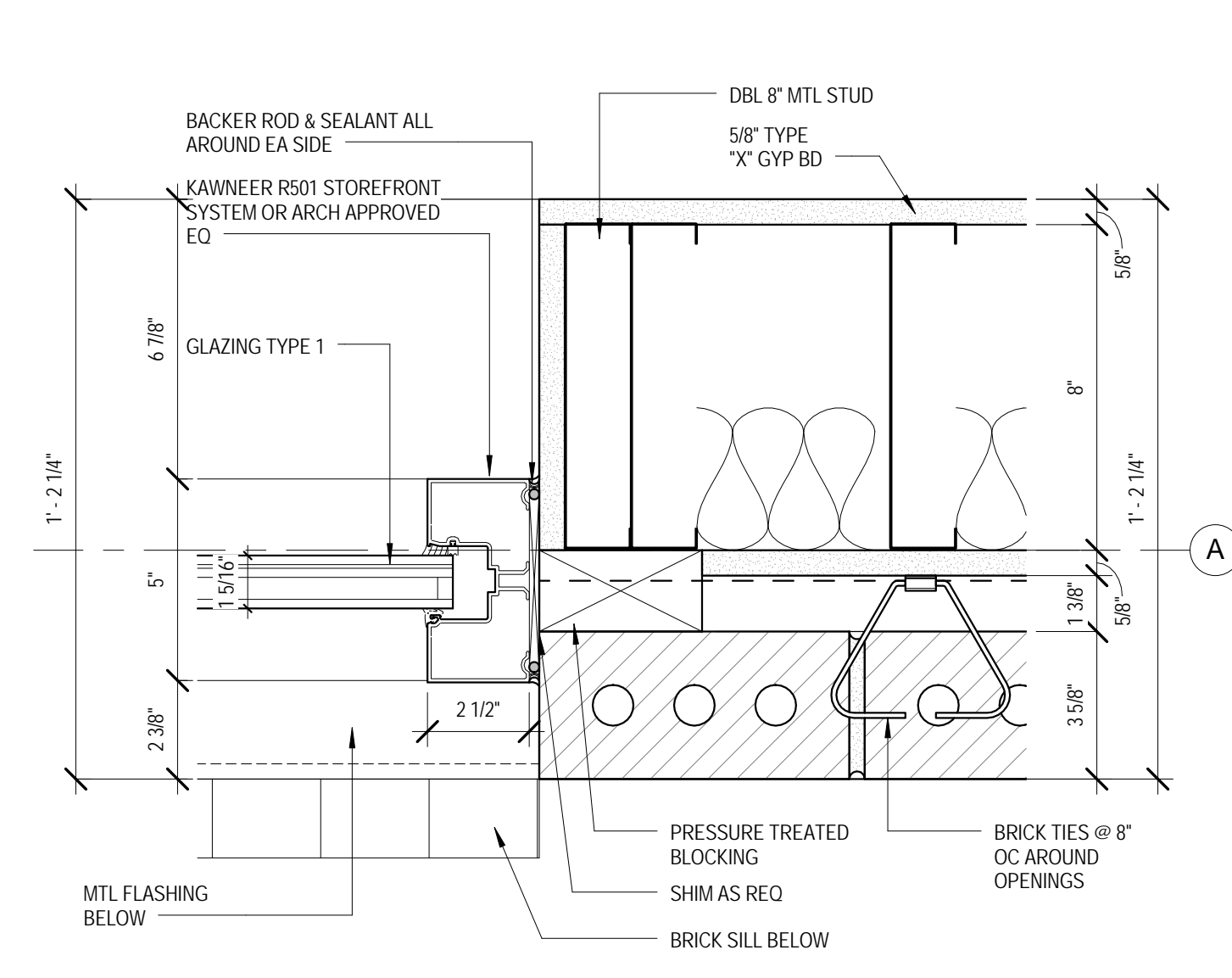


3 STORE FRONT HEAD
SCALE: 3" = 1'-0" REF: 2/A2.20

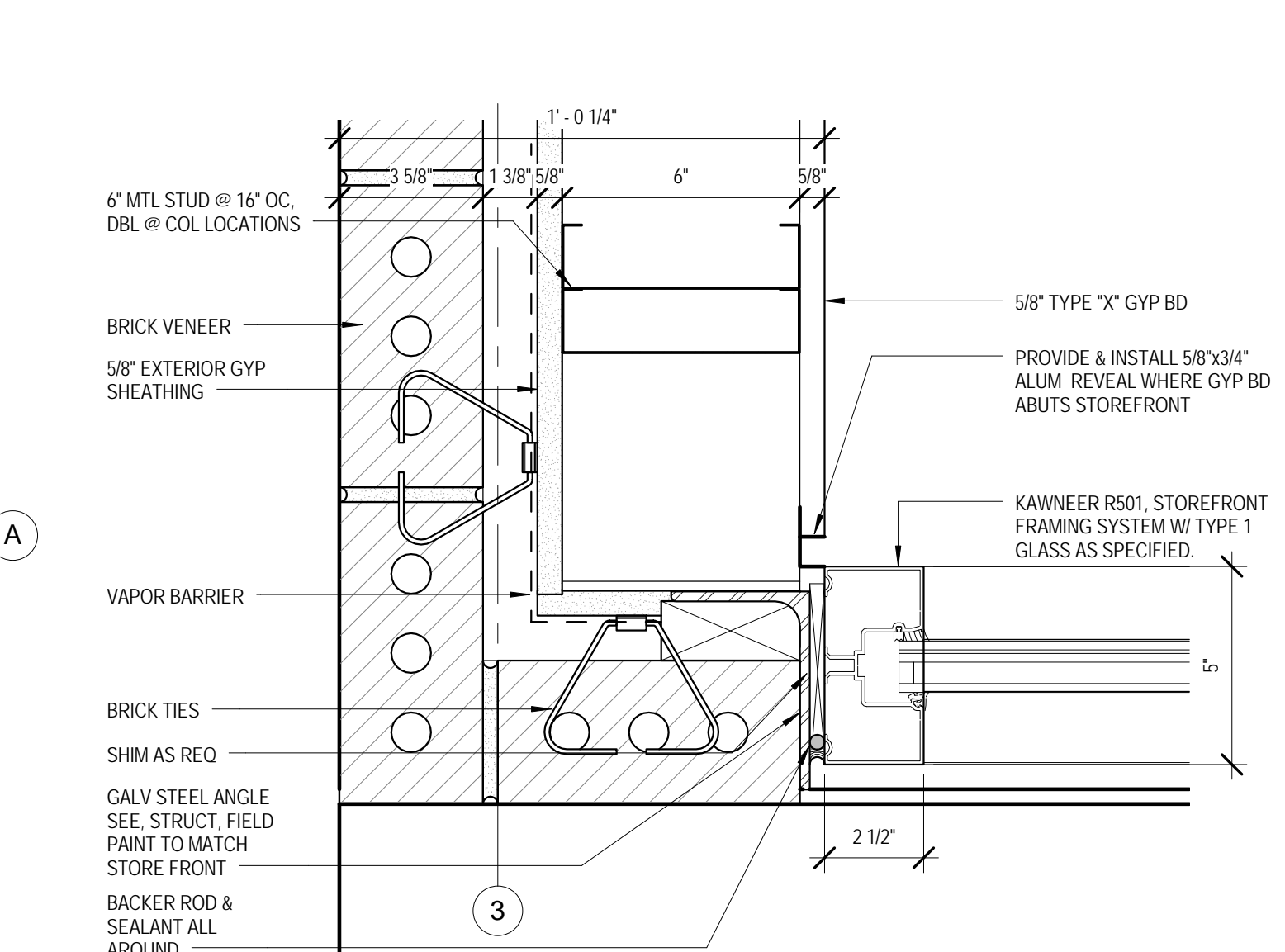
6 ENTRY STOREFRONT HEAD DETAIL
SCALE: 3" = 1'-0" REF: 1/A2.20



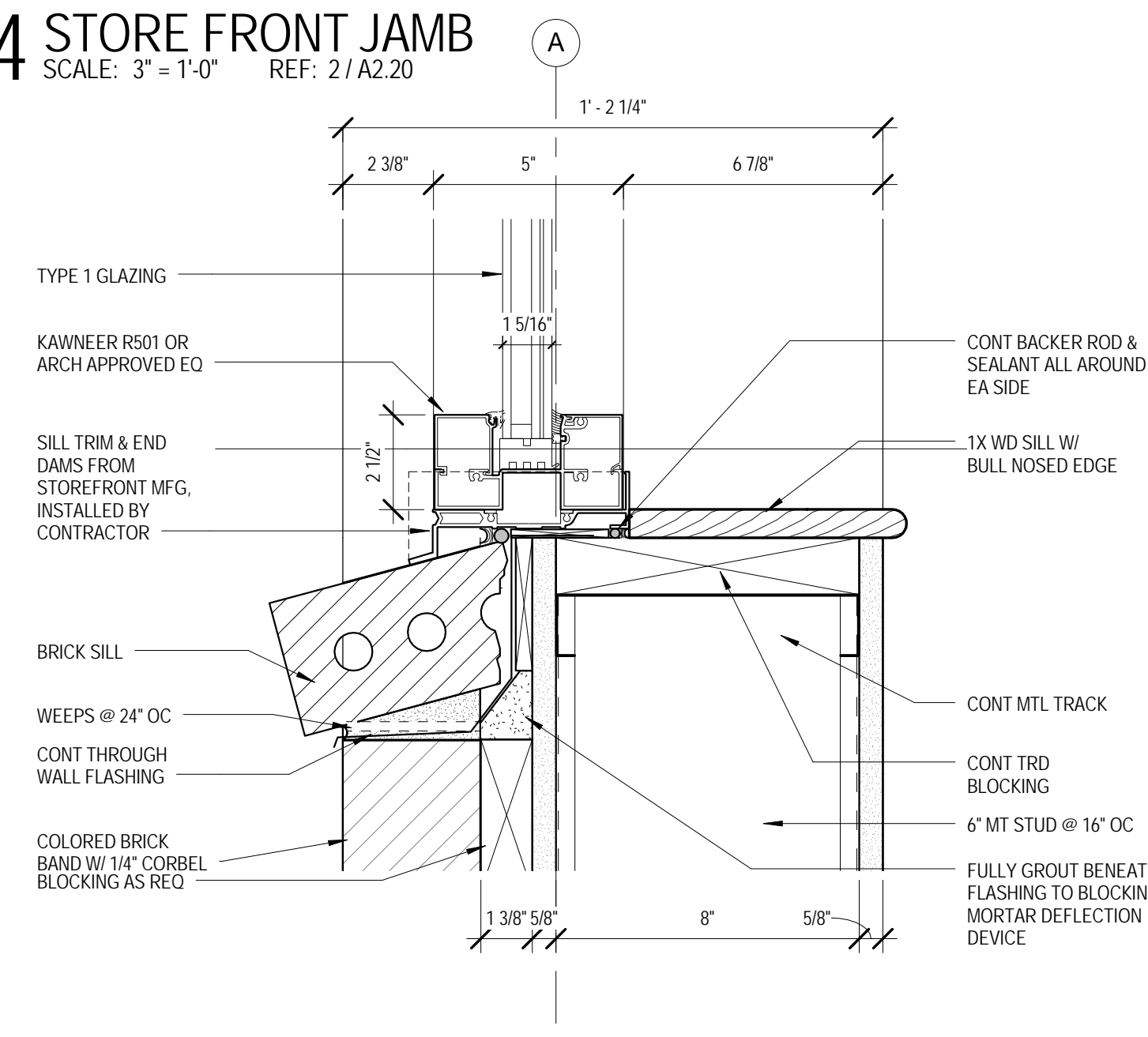
2 TYPICAL STOREFRONT WINDOW TYPE 2
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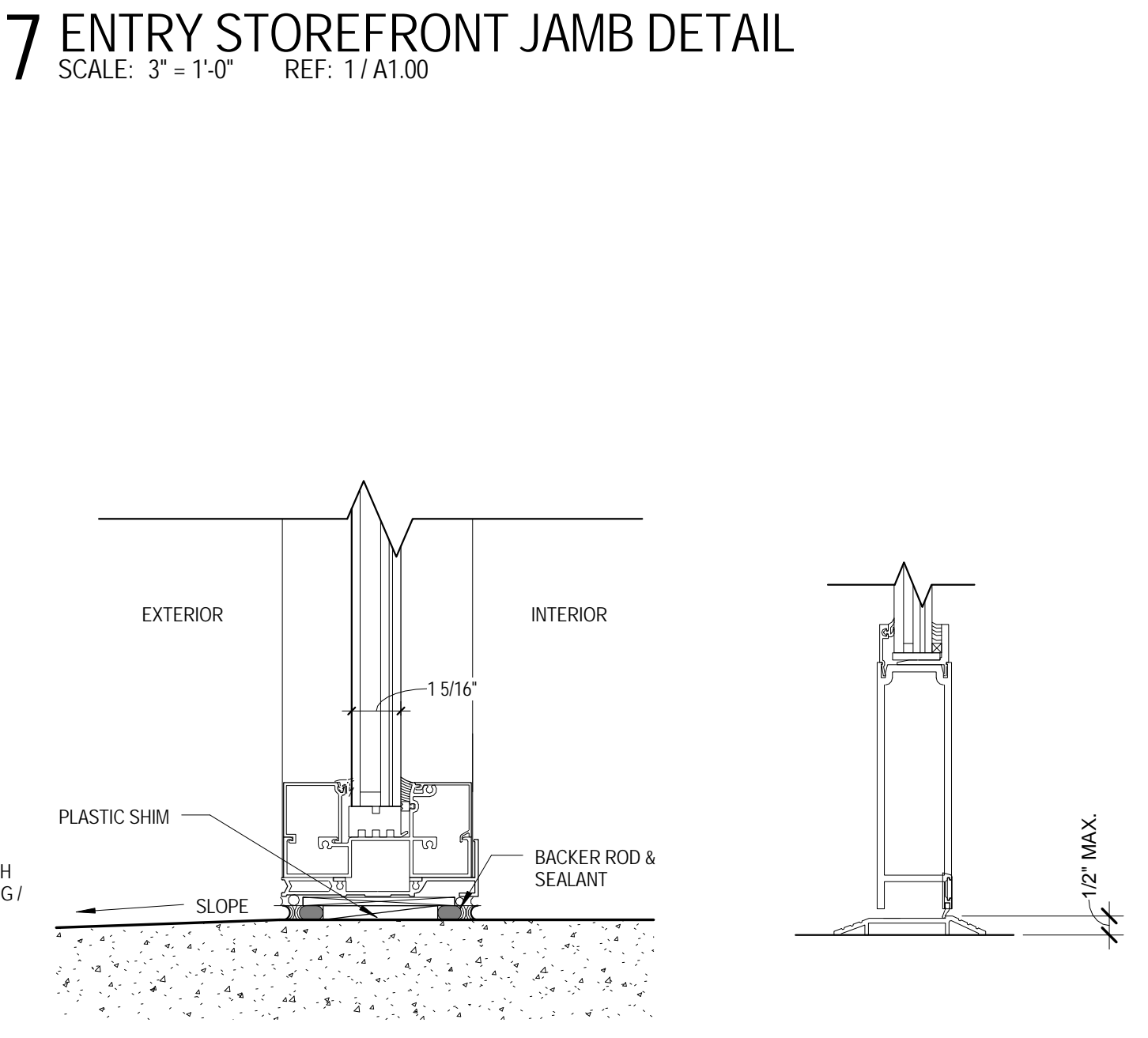
4 STORE FRONT JAMB
SCALE: 3" = 1'-0" REF: 2/A2.20



7 ENTRY STOREFRONT JAMB DETAIL
SCALE: 3" = 1'-0" REF: 1/A1.00



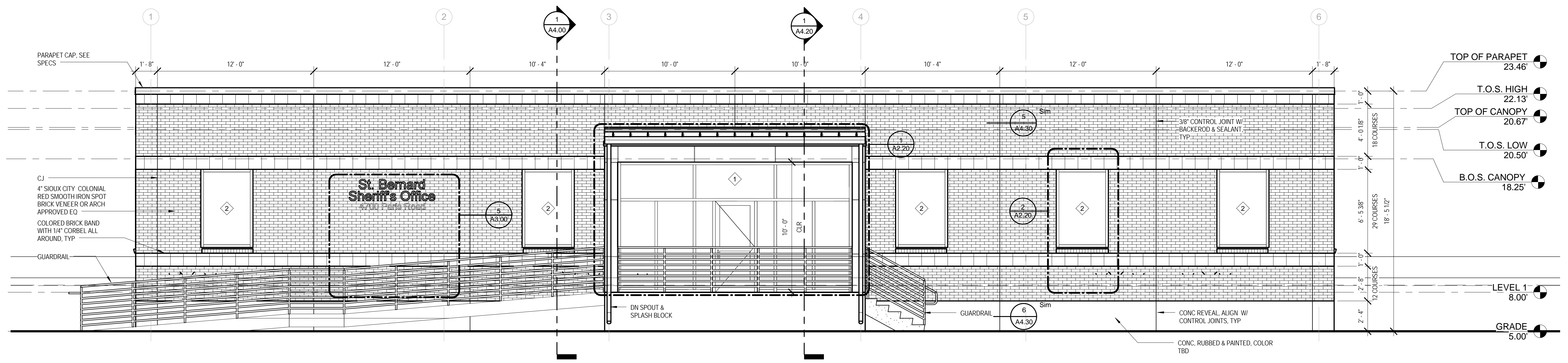
5 STORE FRONT SILL (IN WALL)
SCALE: 3" = 1'-0" REF: 2/A2.20



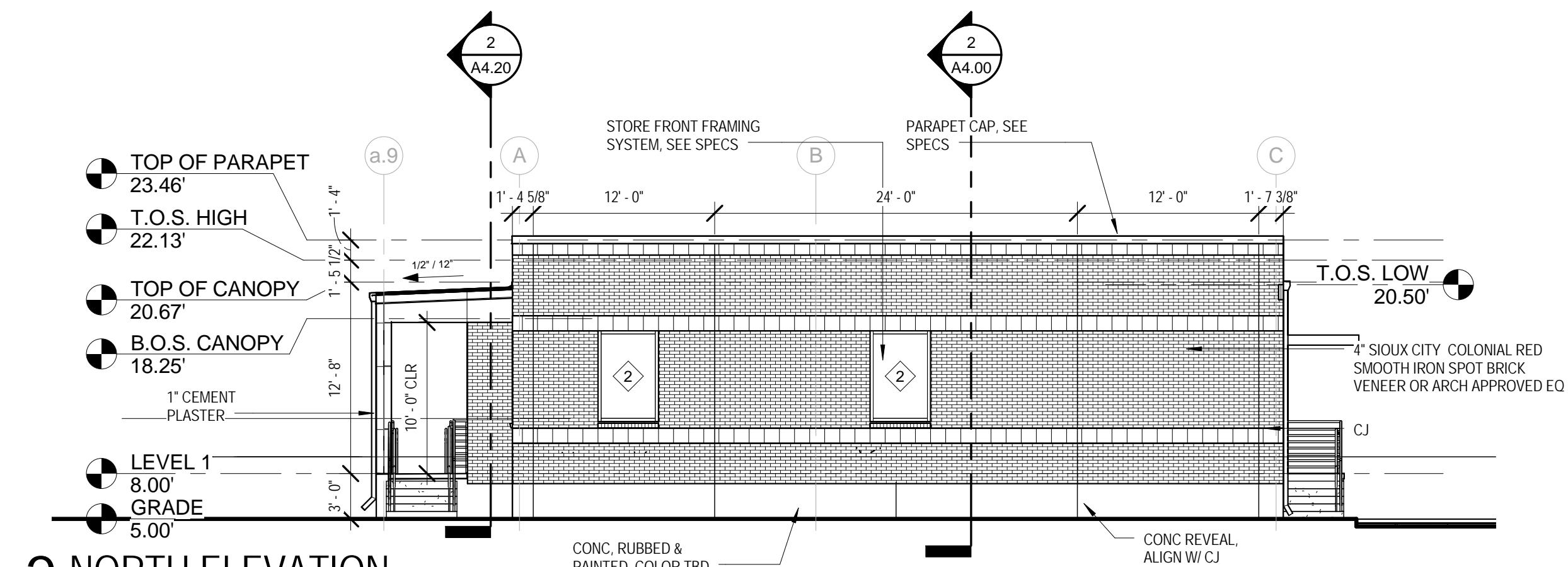
8 S.F. SILL @ CONCRETE
SCALE: 3" = 1'-0" REF: 1/A2.20

9 STOREFRONT DOOR SILL
SCALE: 3" = 1'-0" REF: 1/A2.20

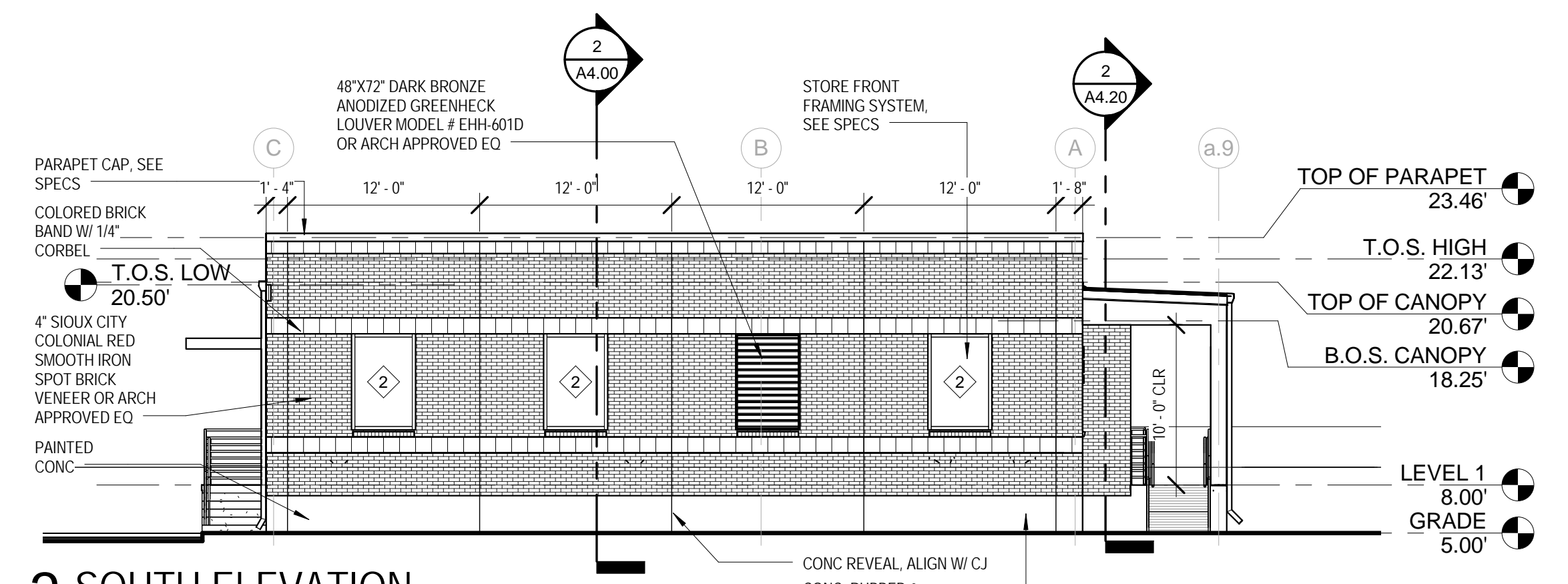
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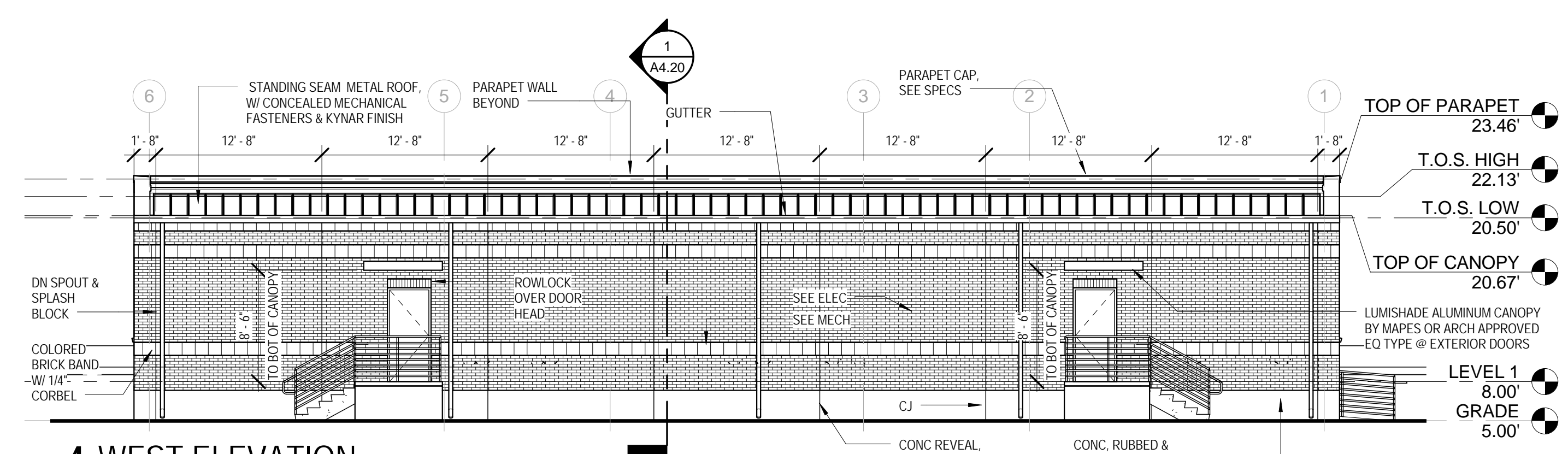
1 EAST ELEVATION
SCALE: 1/4" = 1'-0" REF: 1/A1.00



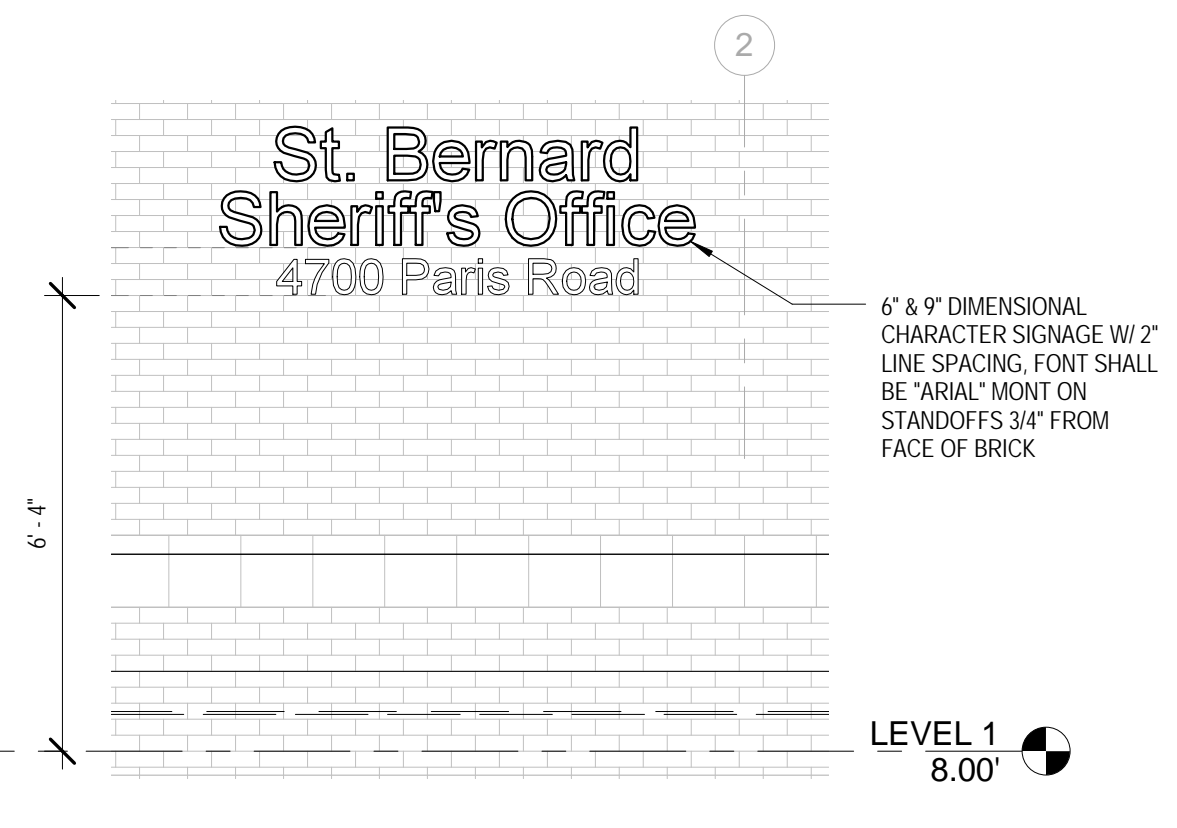
2 NORTH ELEVATION
SCALE: 1/8" = 1'-0" REF: 1/A1.00



3 SOUTH ELEVATION
SCALE: 1/8" = 1'-0" REF: 1/A1.00



4 WEST ELEVATION
SCALE: 1/8" = 1'-0" REF: 1/A1.00



5 SIGNAGE ELEVATION
SCALE: 3/8" = 1'-0" REF: 1/A3.00

St Bernard Parish Sheriff's Substation #47
4700 PARIS ROAD CHALMETTE, LA 70043

CONSTRUCTION DOCUMENTS

DATE: 4-25-14
PROJECT NO.: 01-09-1082-02

REVISIONS:

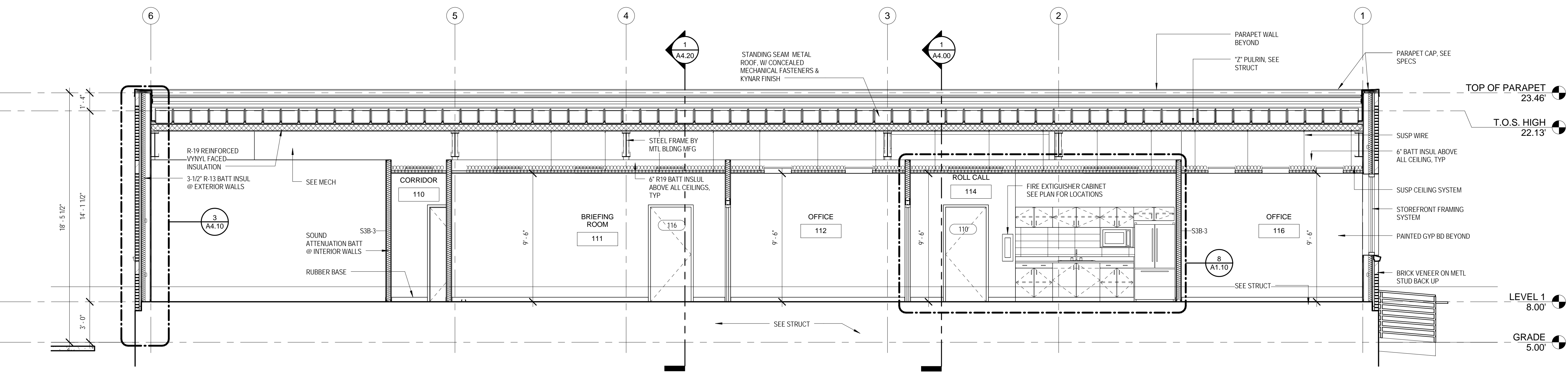
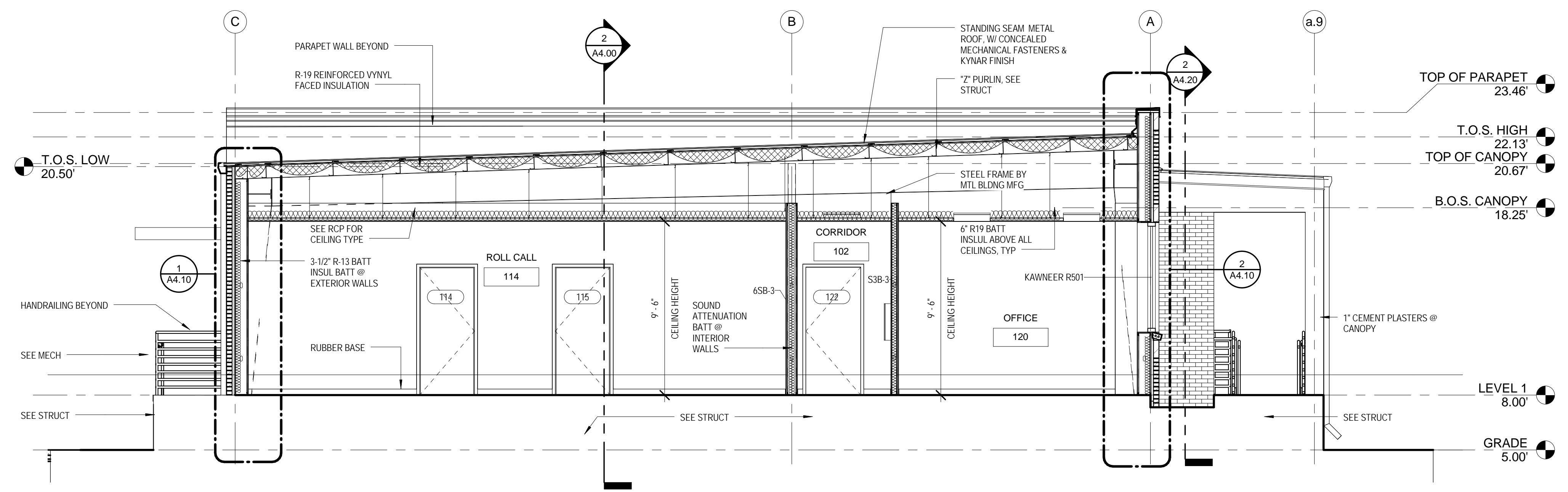
No.	Date	Description

DRAWN BY: ERIVERS
CHECKED BY: PLYONS

BUILDING ELEVATIONS
SHEET NO

A3.00

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St Bernard Parish Sheriff's Substation #47
4700 PARIS ROAD CHALMETTE, LA 70043

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DATE: 4-25-14
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CHECKED BY: PLYONS

SHEET TITLE

BUILDING SECTIONS
SHEET NO

A4.00

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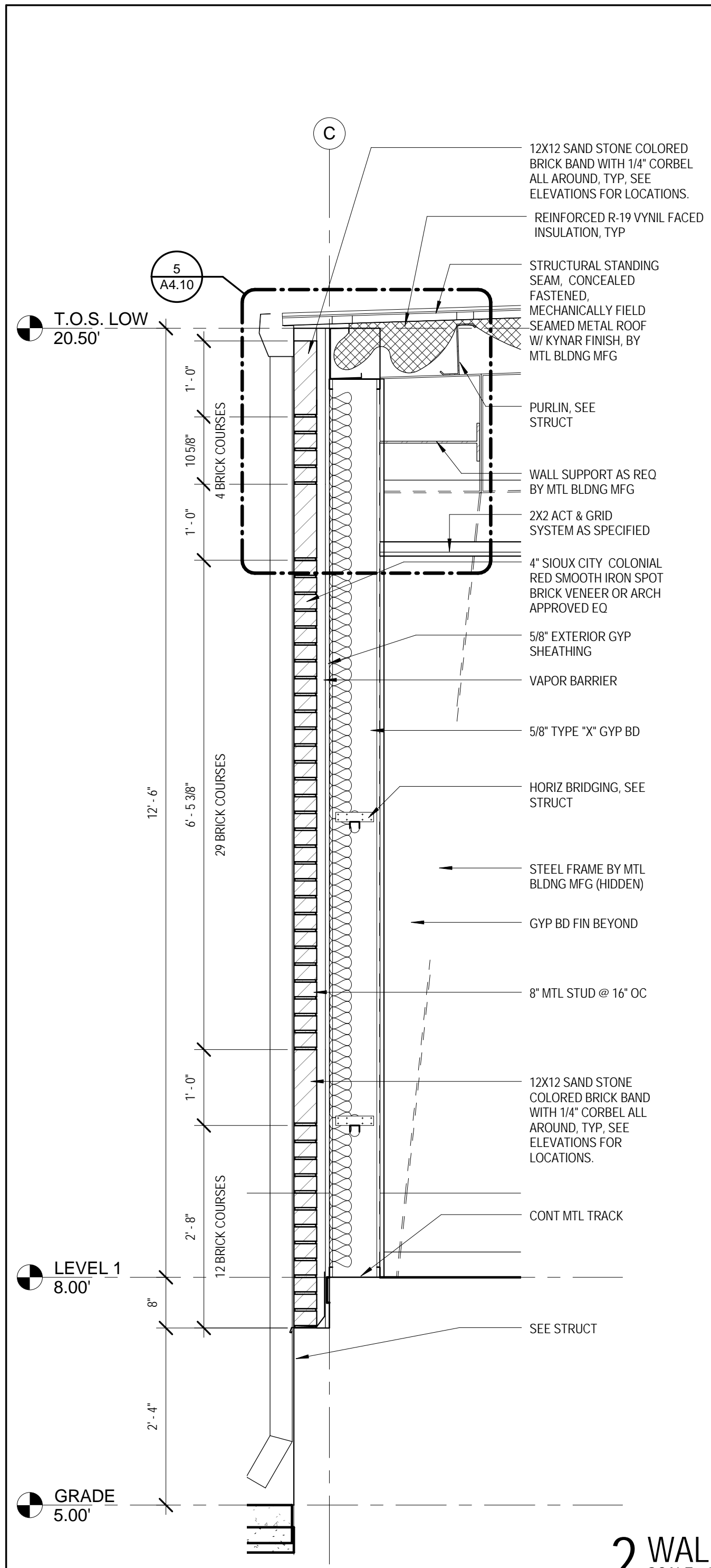
DATE: 4-25-14
PROJECT NO.: 01-09-1082-02

REVISIONS:		
No.	Date	Description

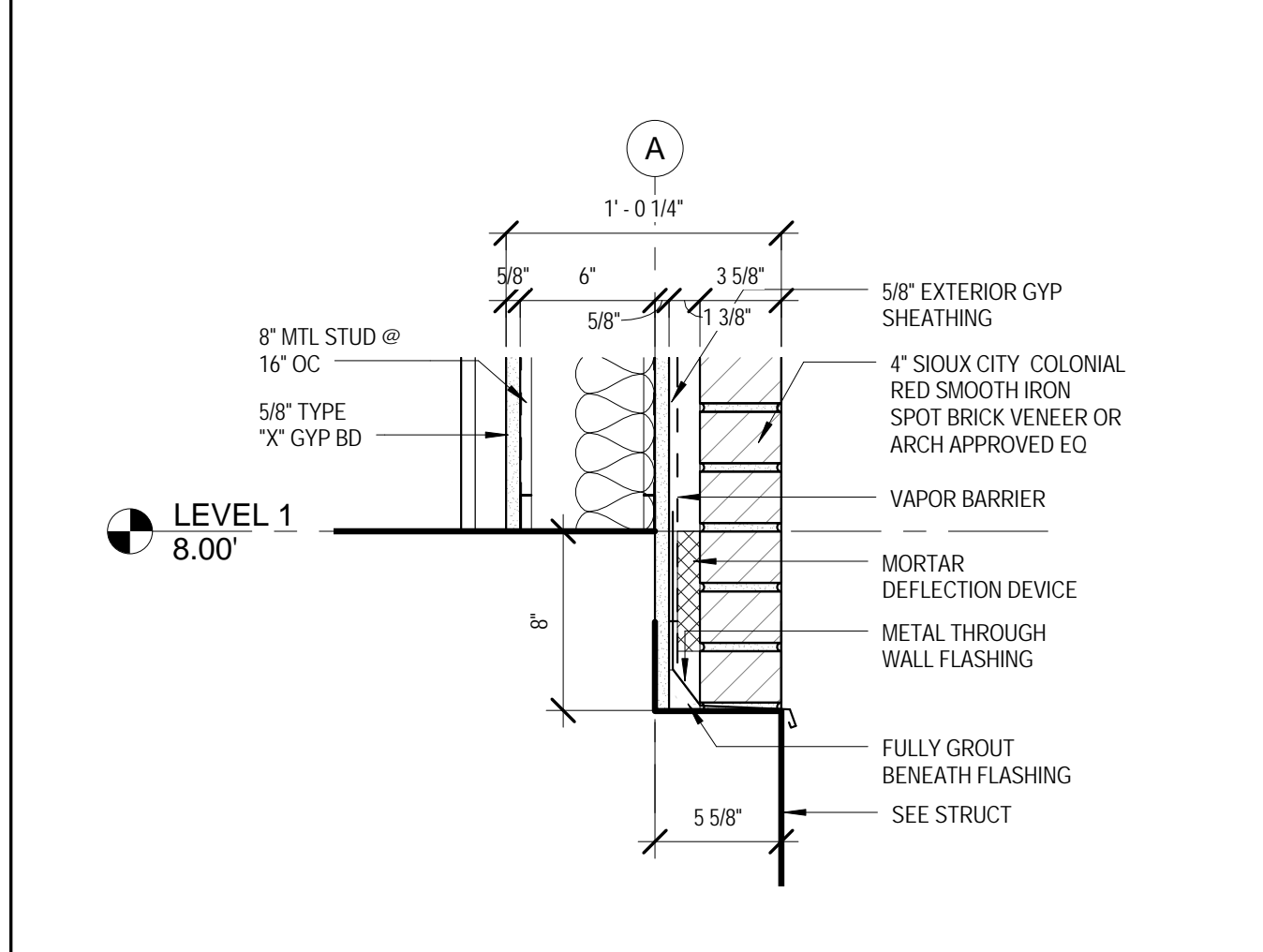
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WALL SECTIONS & DETAILS
SHEET NO

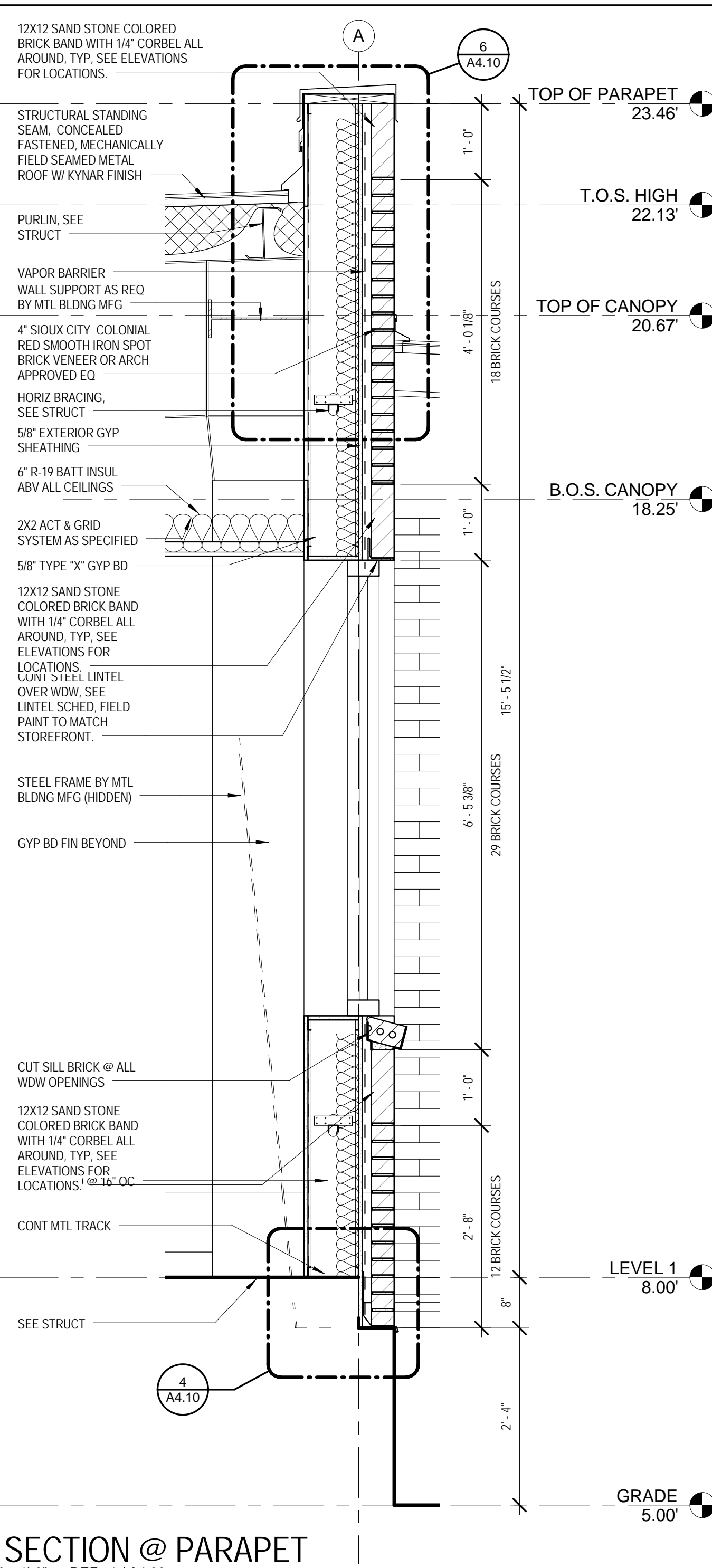
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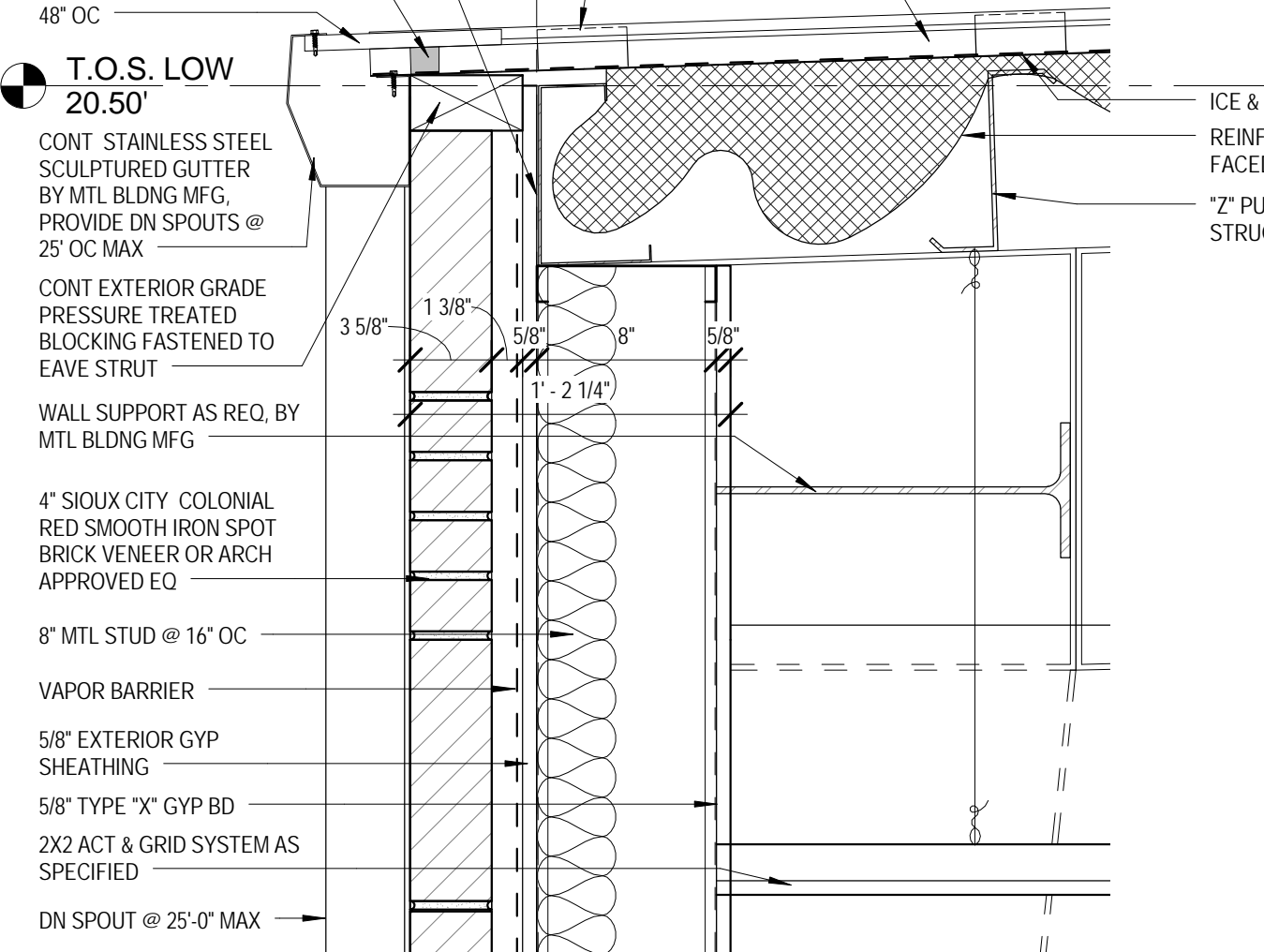
1 WALL SECTION @ LOW EAVE
SCALE: 3/4" = 1'-0" REF: 1/A4.00



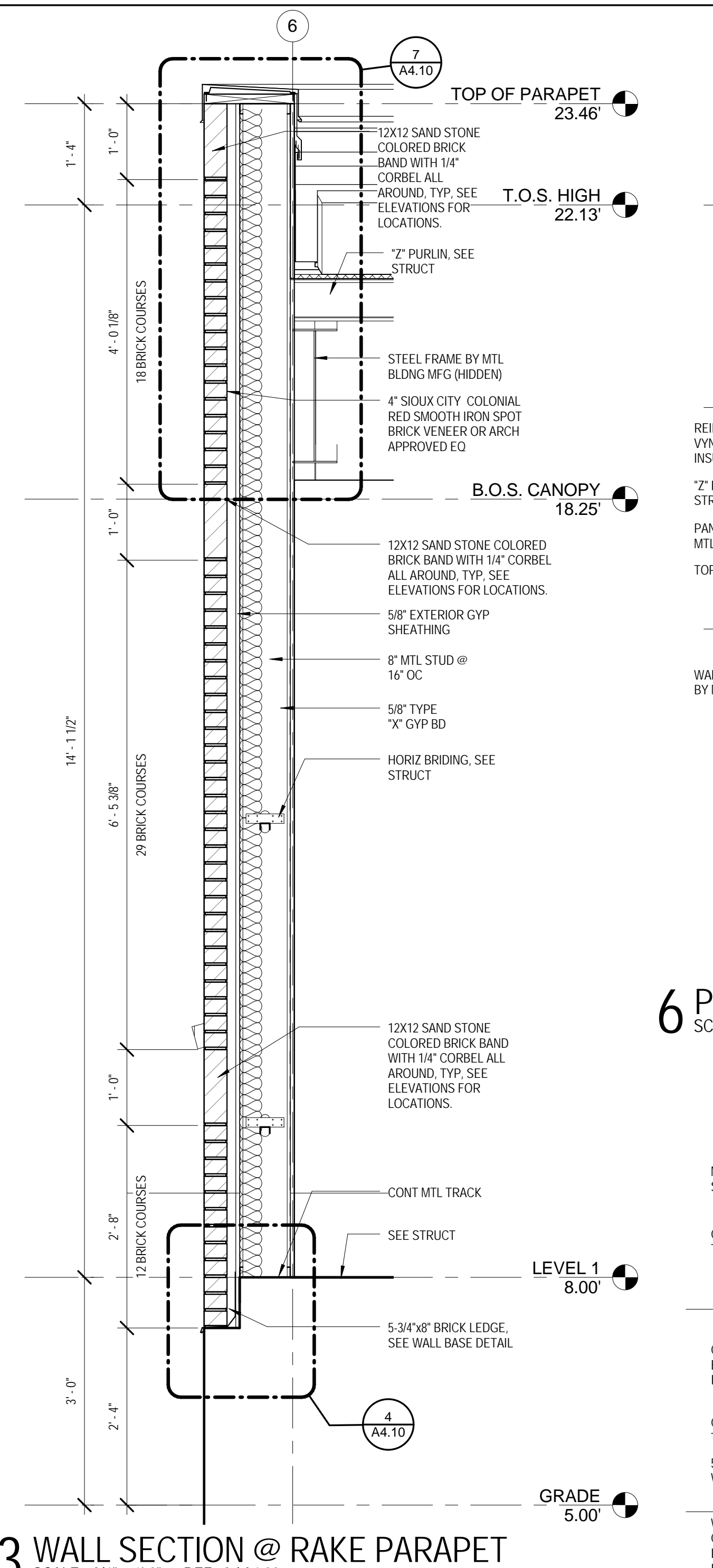
4 WALL BASE DETAIL
SCALE: 1 1/2" = 1'-0" REF: 2/A4.10



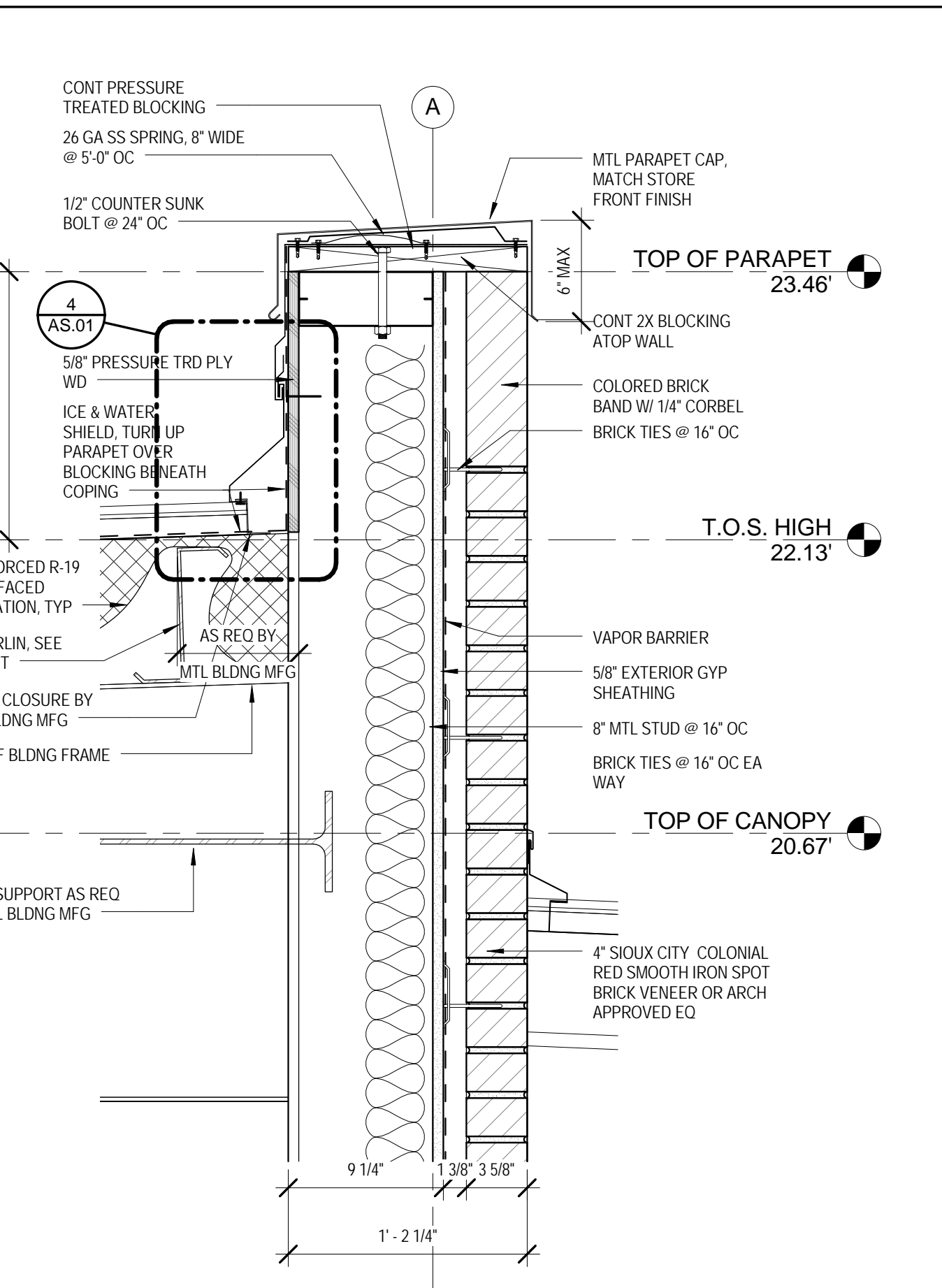
2 WALL SECTION @ PARAPET
SCALE: 3/4" = 1'-0" REF: 1/A4.00



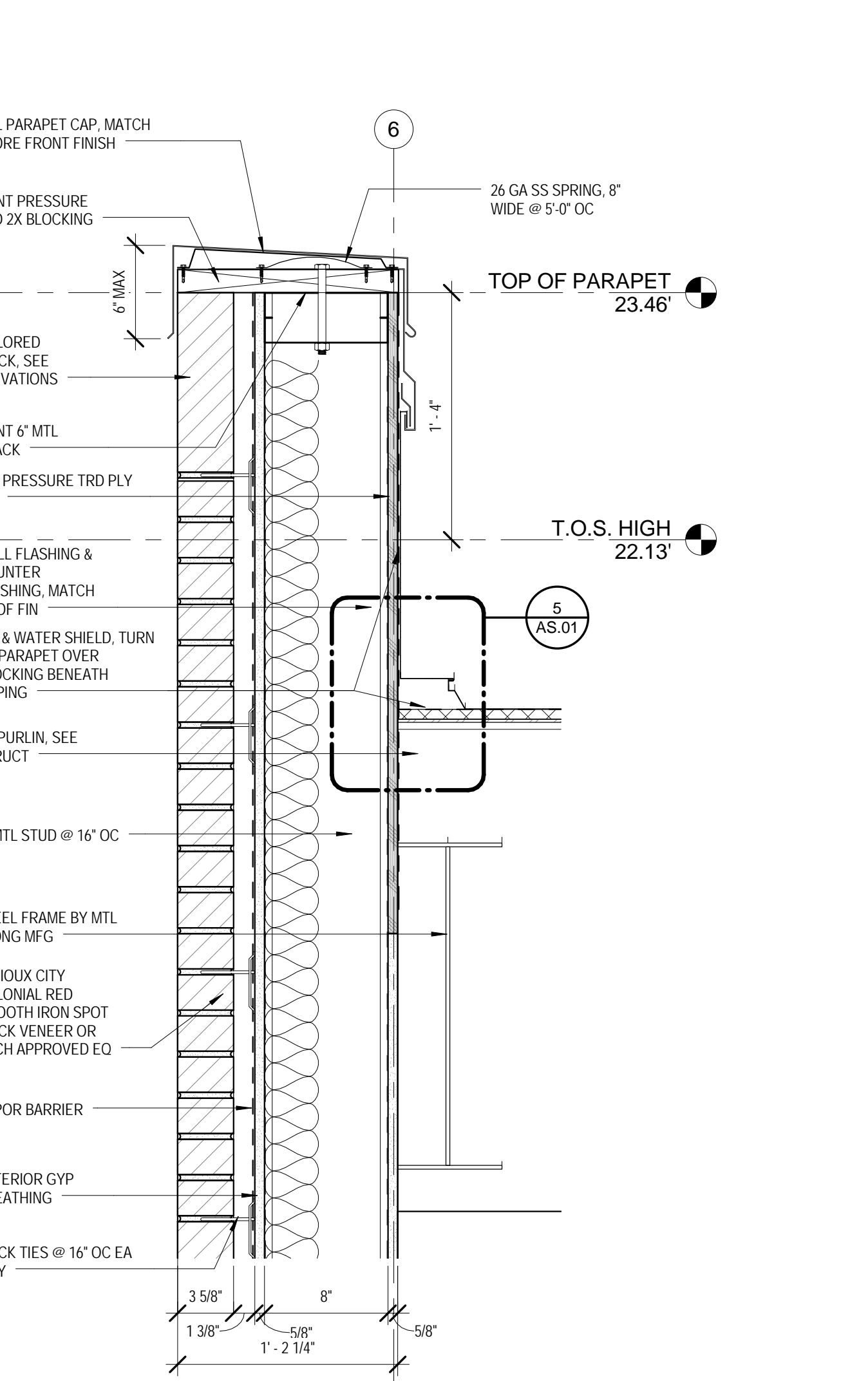
5 EAVE DETAIL
SCALE: 1 1/2" = 1'-0" REF: 1/A4.10



3 WALL SECTION @ RAKE PARAPET
SCALE: 3/4" = 1'-0" REF: 2/A4.00

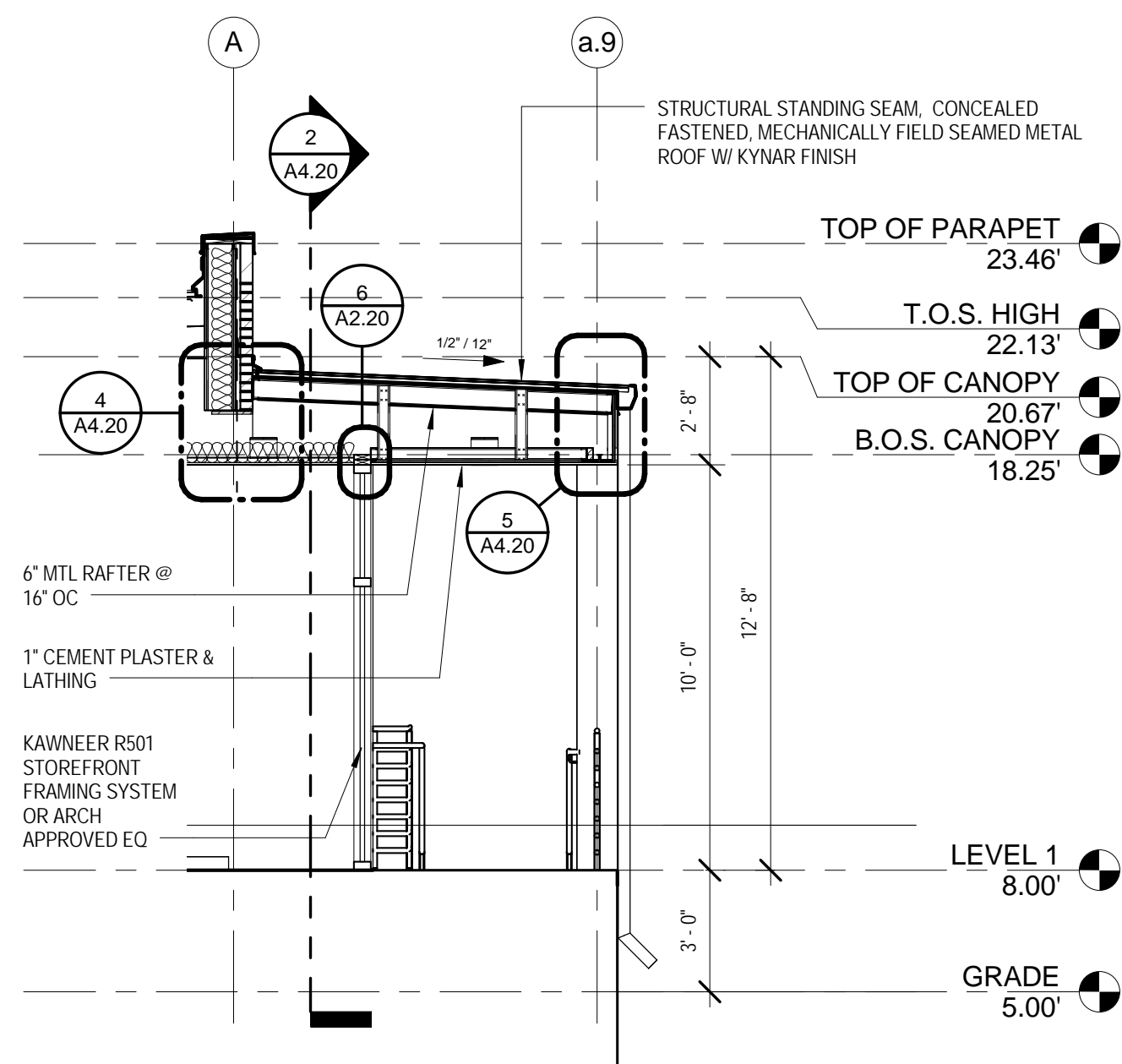


6 PARAPET DETAIL
SCALE: 1 1/2" = 1'-0" REF: 2/A4.10

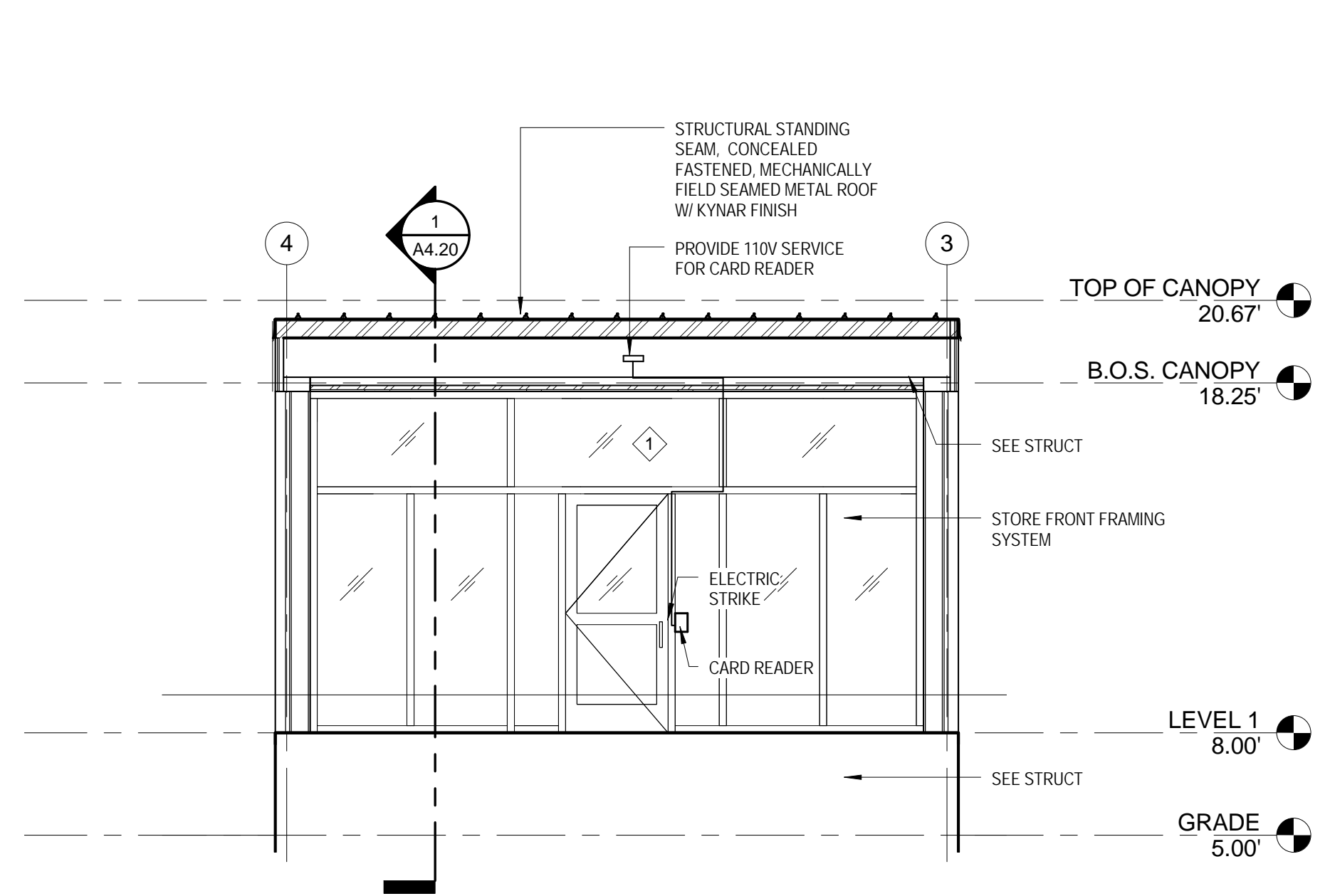


7 PARAPET DETAIL
SCALE: 1 1/2" = 1'-0" REF: 3/A4.10

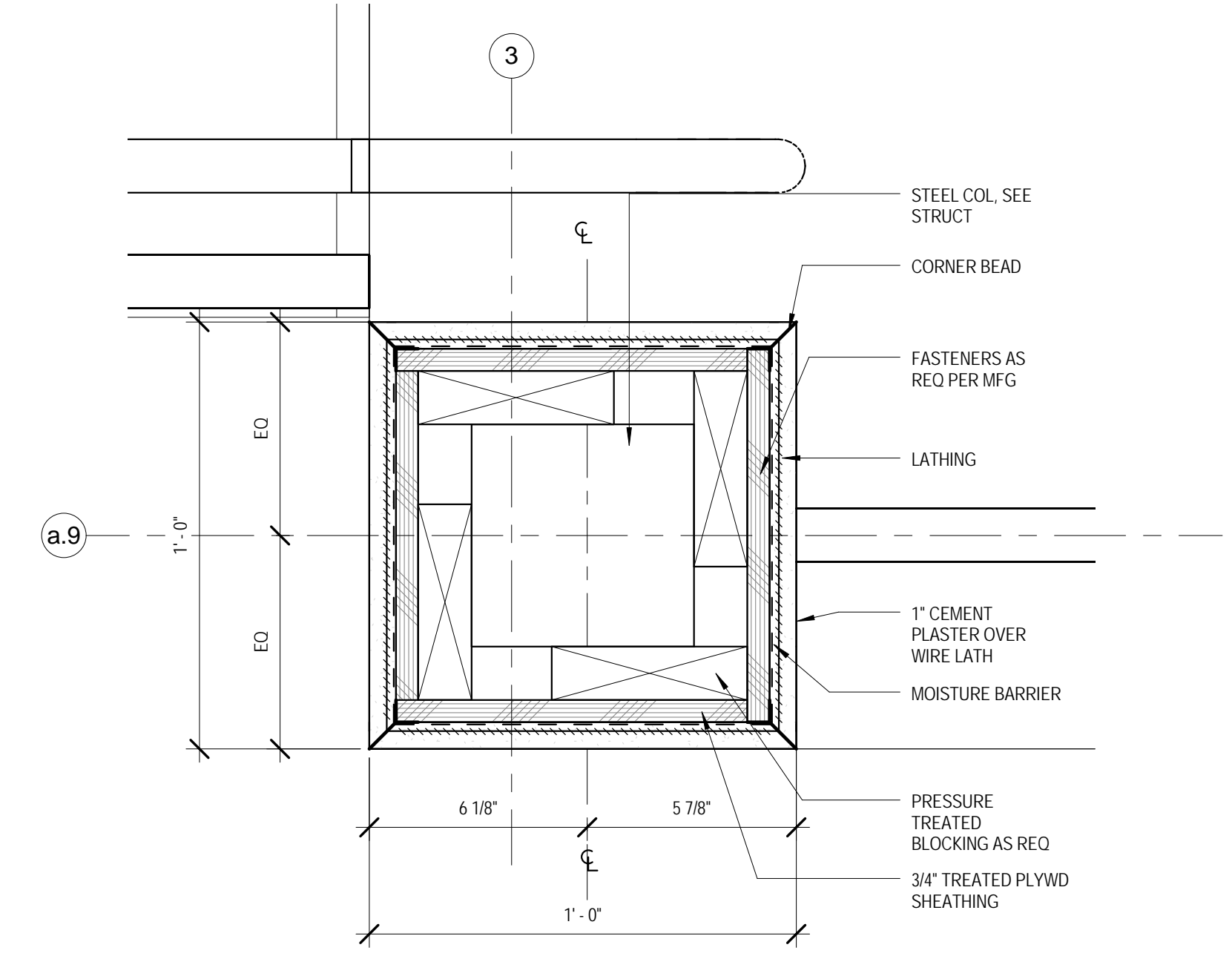
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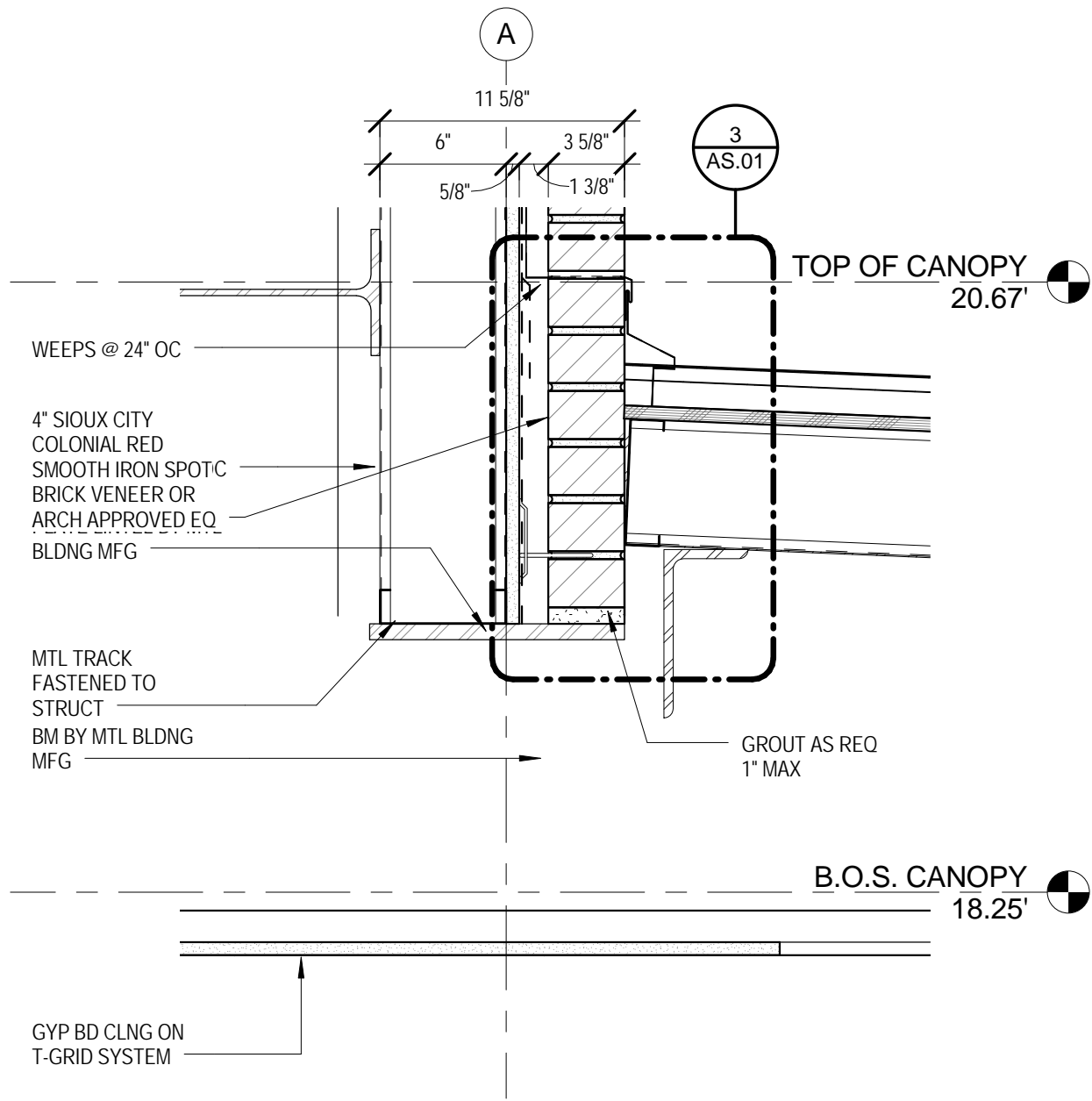
1 TRANSVERSE CANOPY SECTION
SCALE: 1/4" = 1'-0" REF: 1/A1.00



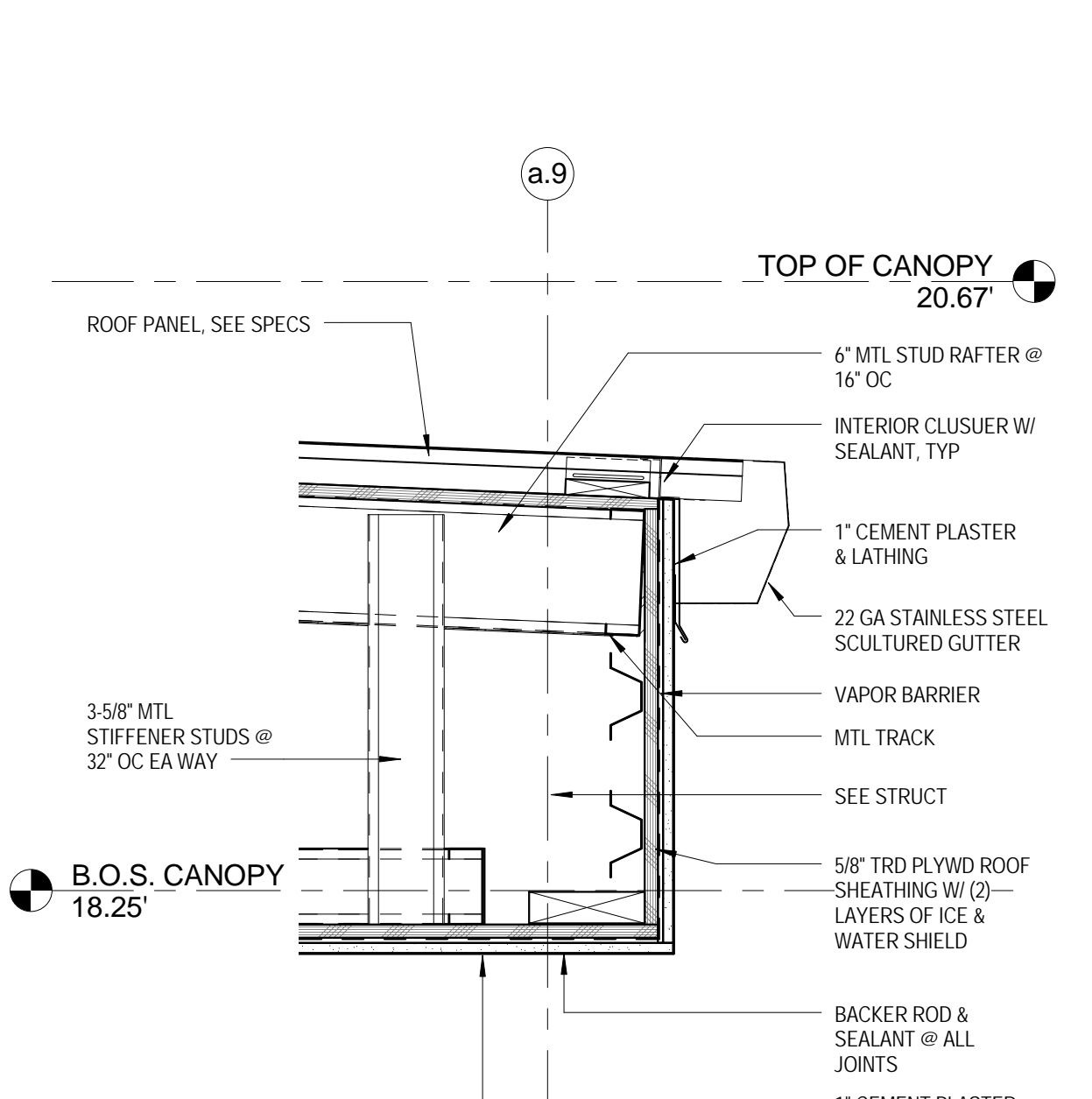
2 LONGITUDINAL CANOPY SECTION
SCALE: 1/4" = 1'-0" REF: 1/A1.00



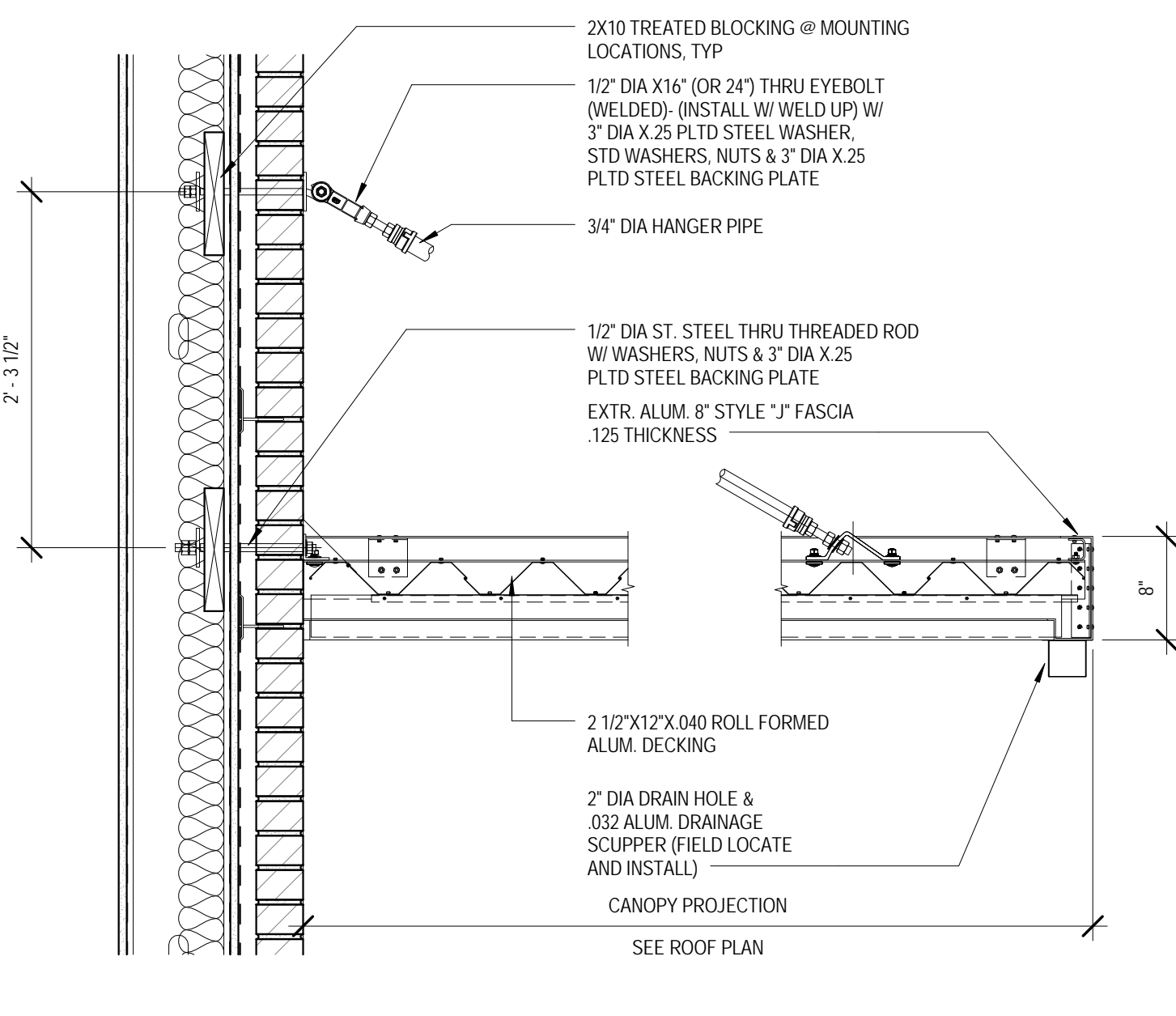
3 CEMENT PLASTER COLUMN DETAIL
SCALE: 3" = 1'-0" REF: 1/A1.00



4 CANOPY FLASHING @ BRICK WALL DETAIL
SCALE: 1 1/2" = 1'-0" REF: 1/A4.20



5 CEMENT PLASTER CANOPY DETAIL DETAIL
SCALE: 1 1/2" = 1'-0" REF: 1/A4.20



6 REAR CANOPY DETAILS
SCALE: 1" = 1'-0" REF: 2/A5.01

St Bernard Parish Sheriff's Substation #47
 4700 PARIS ROAD CHALMETTE, LA 70043

CONSTRUCTION DOCUMENTS

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REVISIONS:		
No.	Date	Description

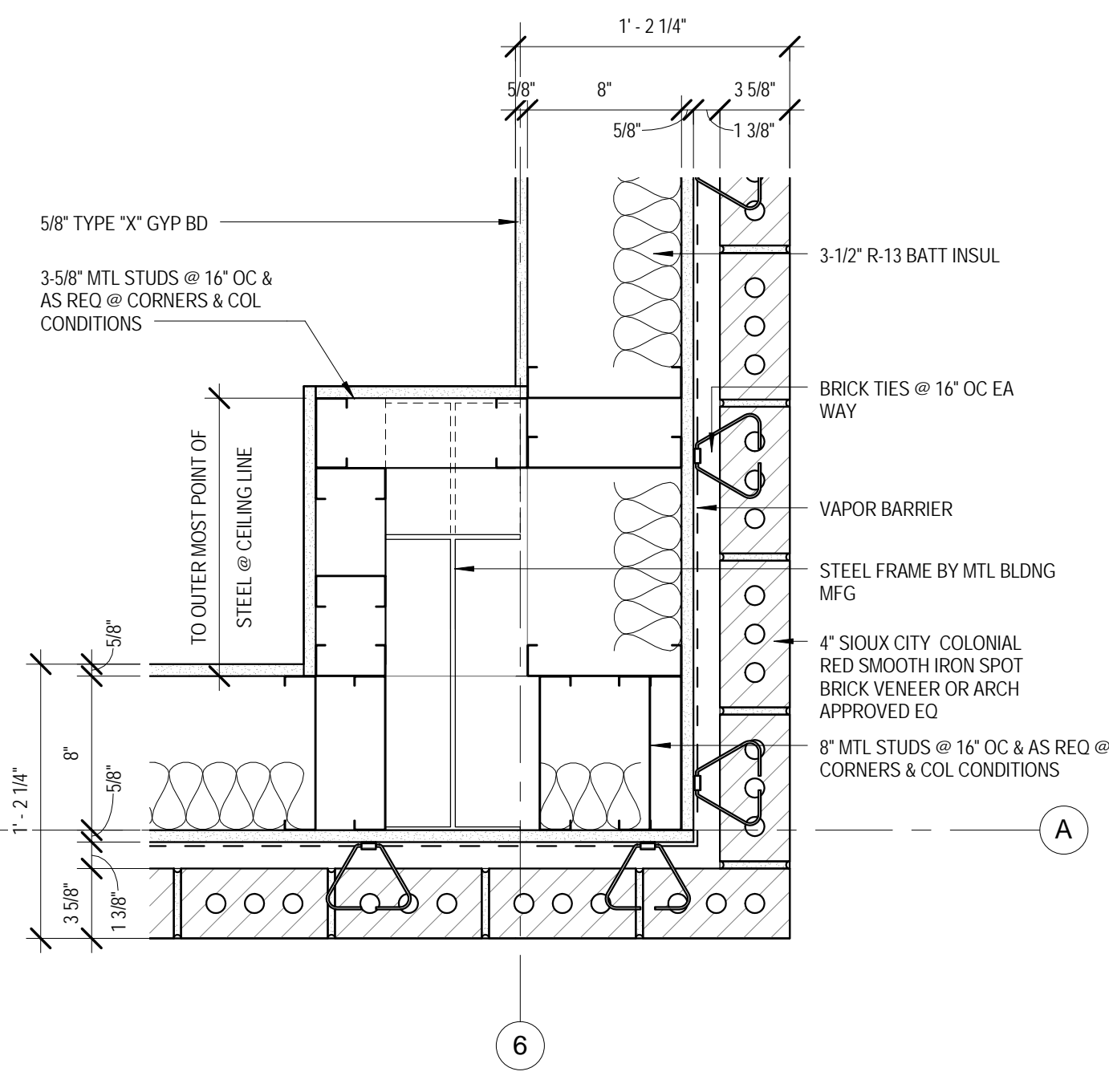
DRAWN BY: ERIVERS
CHECKED BY: PLYONS

SHEET TITLE

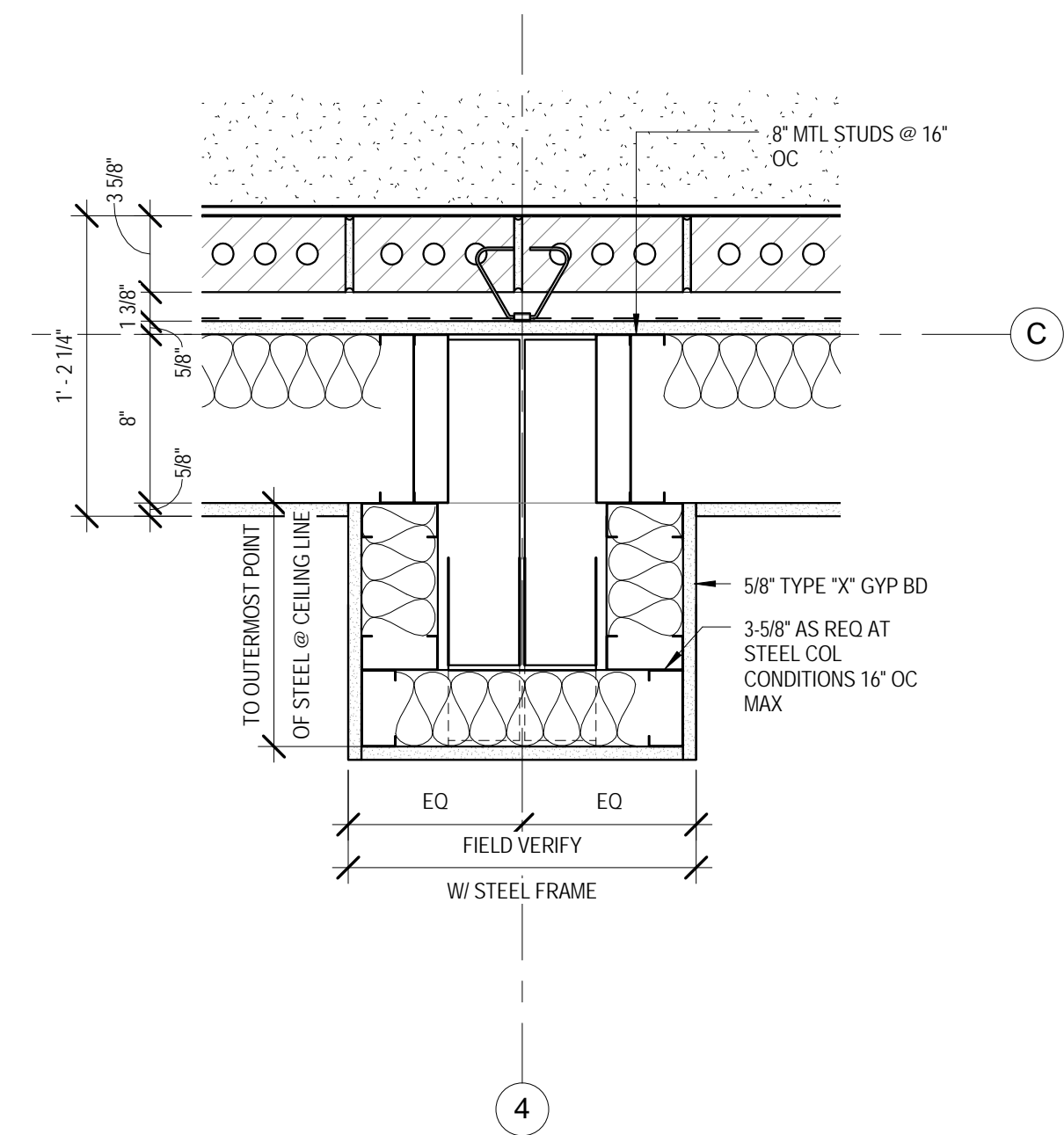
CANOPY DETAILS

SHEET NO

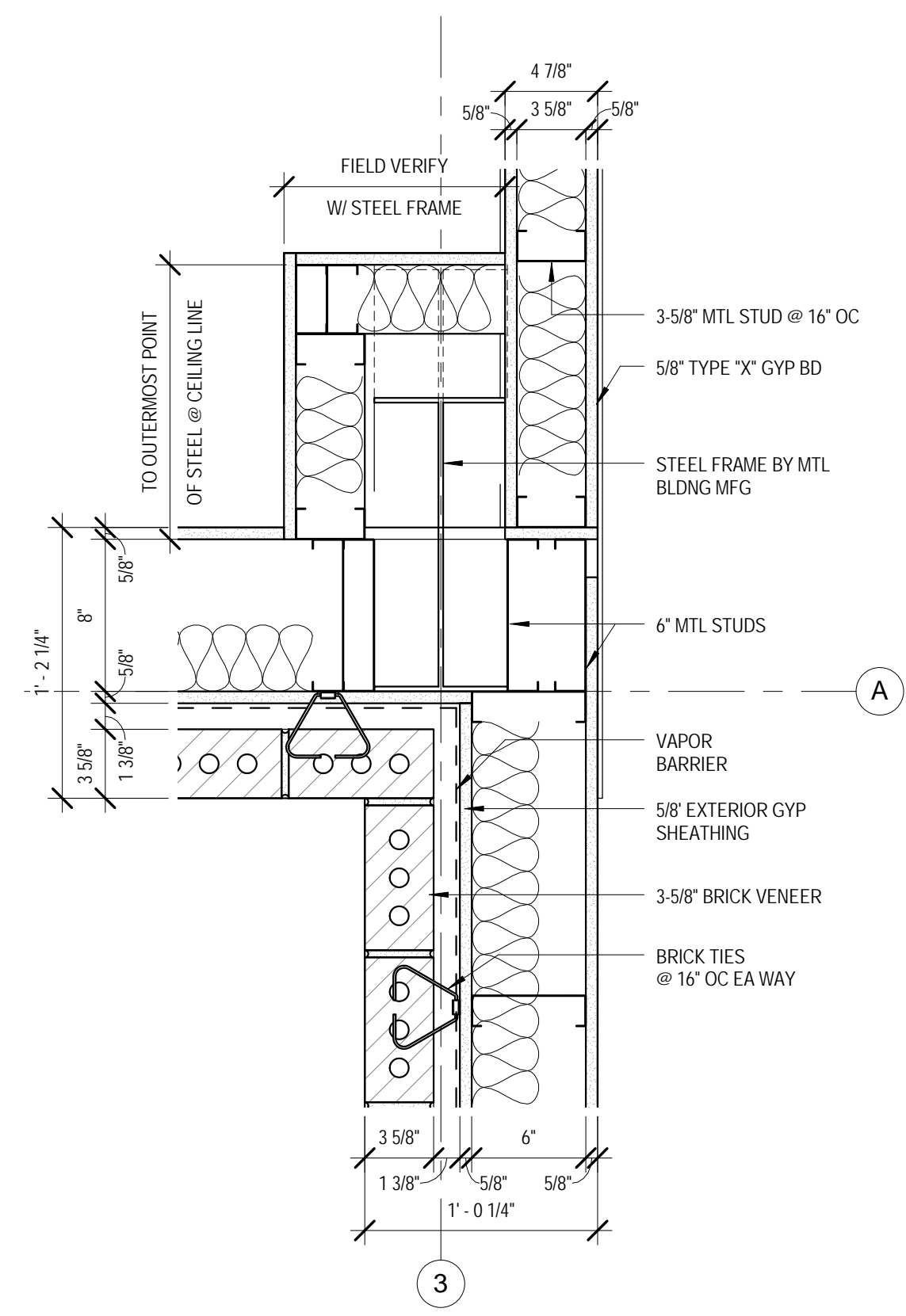
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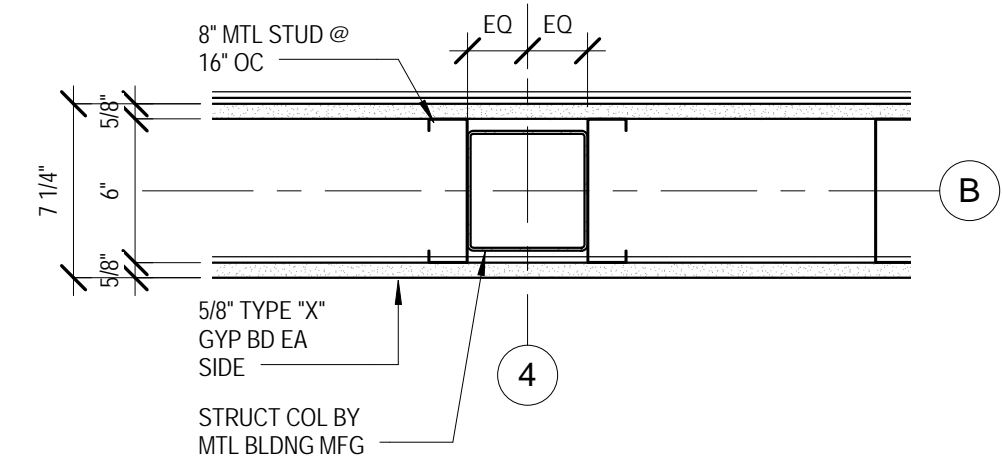
1 COLUMN DETAIL
SCALE: 1 1/2" = 1'-0" REF: 1/A1.00



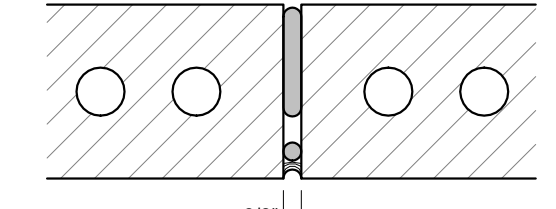
2 COLUMN DETAIL
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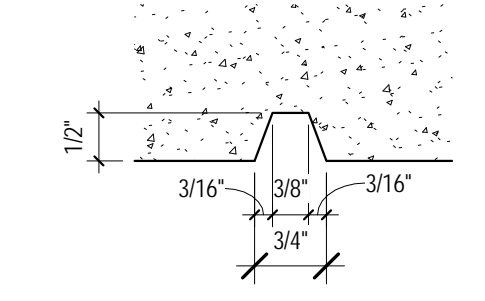
3 COLUMN DETAIL
SCALE: 1 1/2" = 1'-0" REF: 1/A1.00



4 COLUMN DETAIL
SCALE: 1 1/2" = 1'-0" REF: 1/A1.00



5 MASONRY CONTROL JOINT
SCALE: 3" = 1'-0" REF: 1/A3.00



6 CONCRETE REVEAL
SCALE: 6" = 1'-0" REF: 1/A3.00

4/25/2014 11:34:09 AM H:\PROJ\05-1082 - SBPSCO Non-Substations, Acadic LAY3 - Paris Road\Drawings\Peres\01 Rev\011 Central Model\Paris Rd - Central.rvt

St Bernard Parish Sheriff's Substation #47
4700 PARIS ROAD CHALMETTE, LA 70043

CONSTRUCTION DOCUMENTS

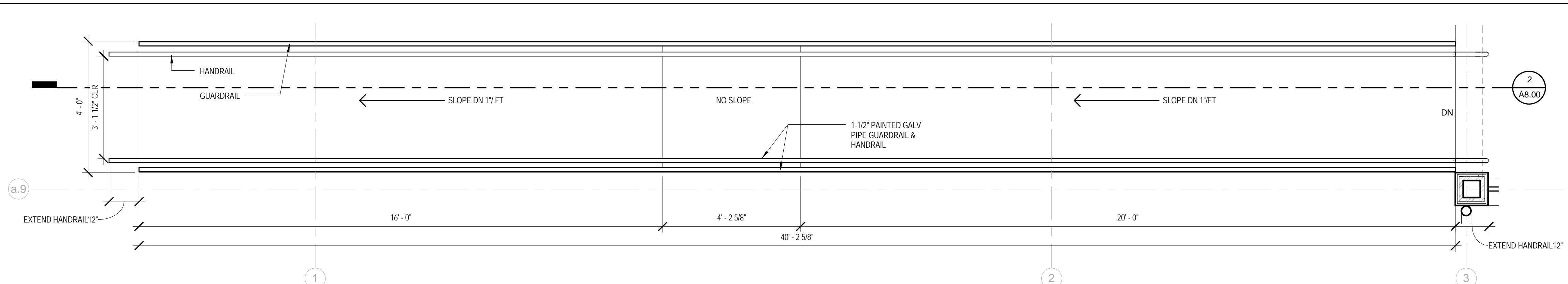
DATE: 4-25-14
PROJECT NO.: 01-09-1082-02

REVISIONS:

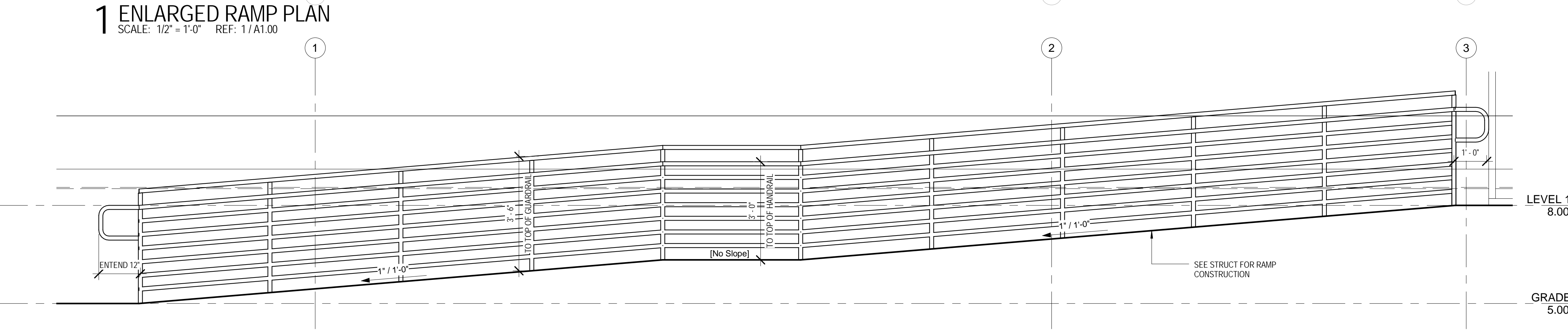
No.	Date	Description

DRAWN BY: ERIVERS
CHECKED BY: PLYONS
SHEET TITLE

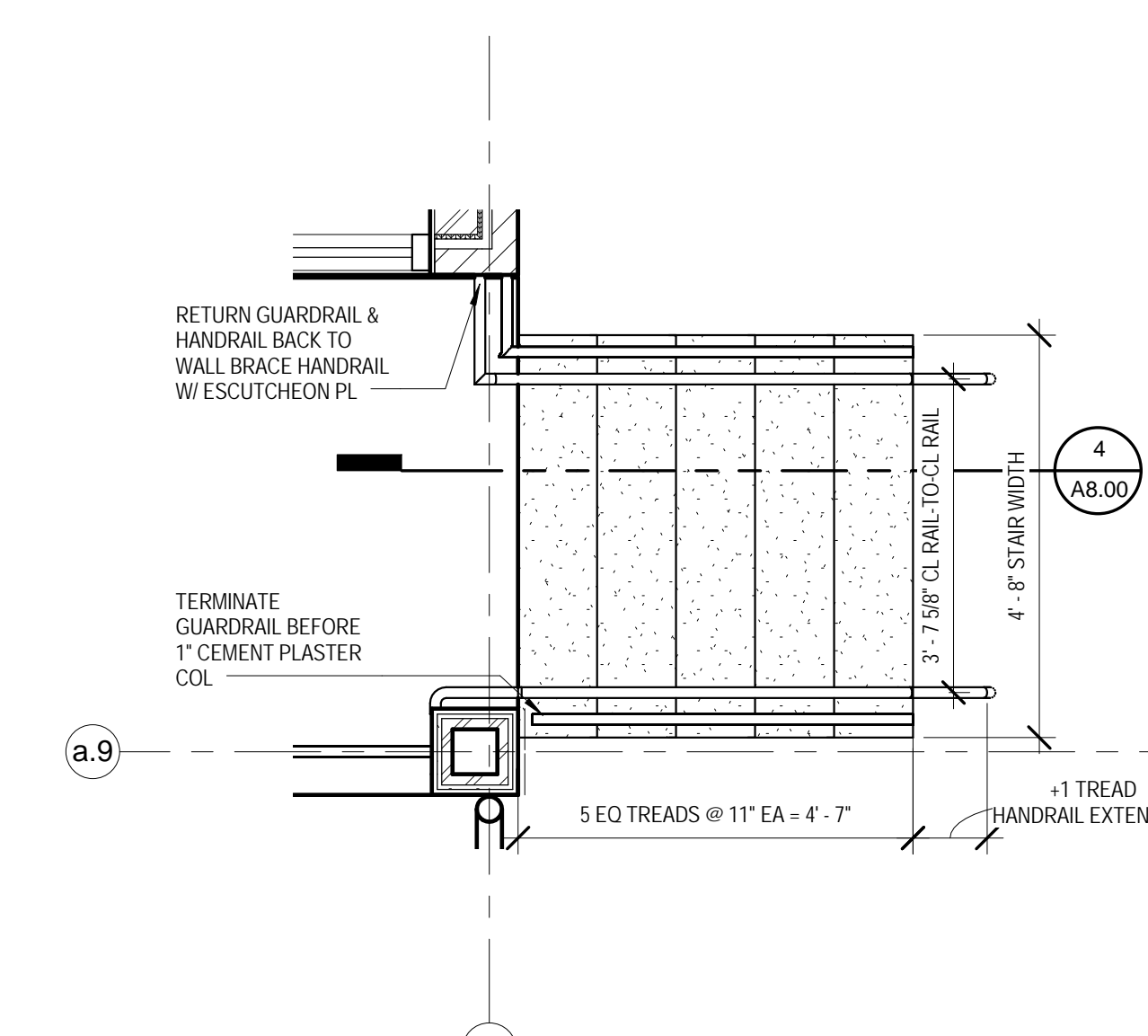
PLAN DETAILS
SHEET NO
A4.30



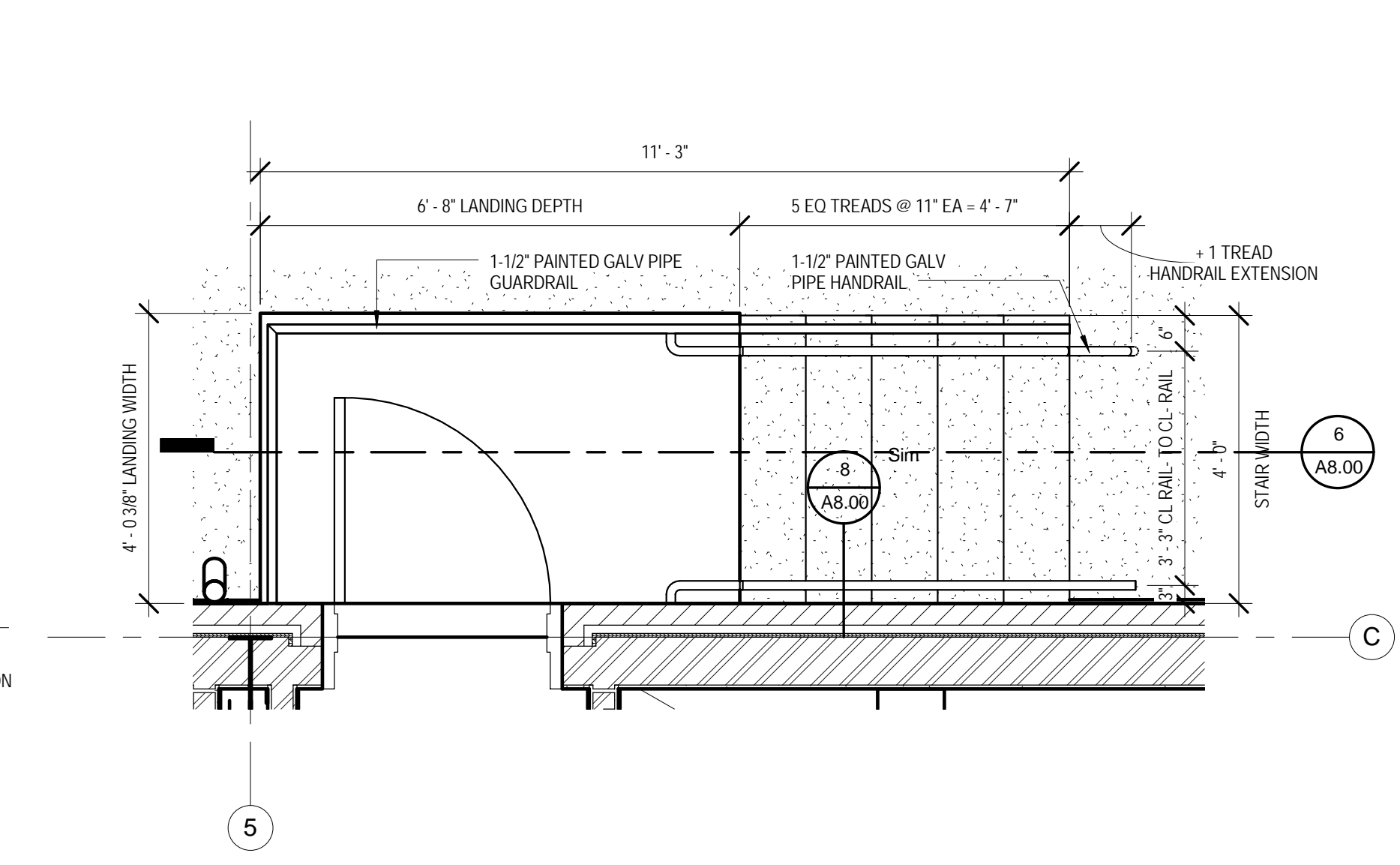
1 ENLARGED RAMP PLAN
SCALE: 1/2" = 1'-0" REF: 1/A1.00



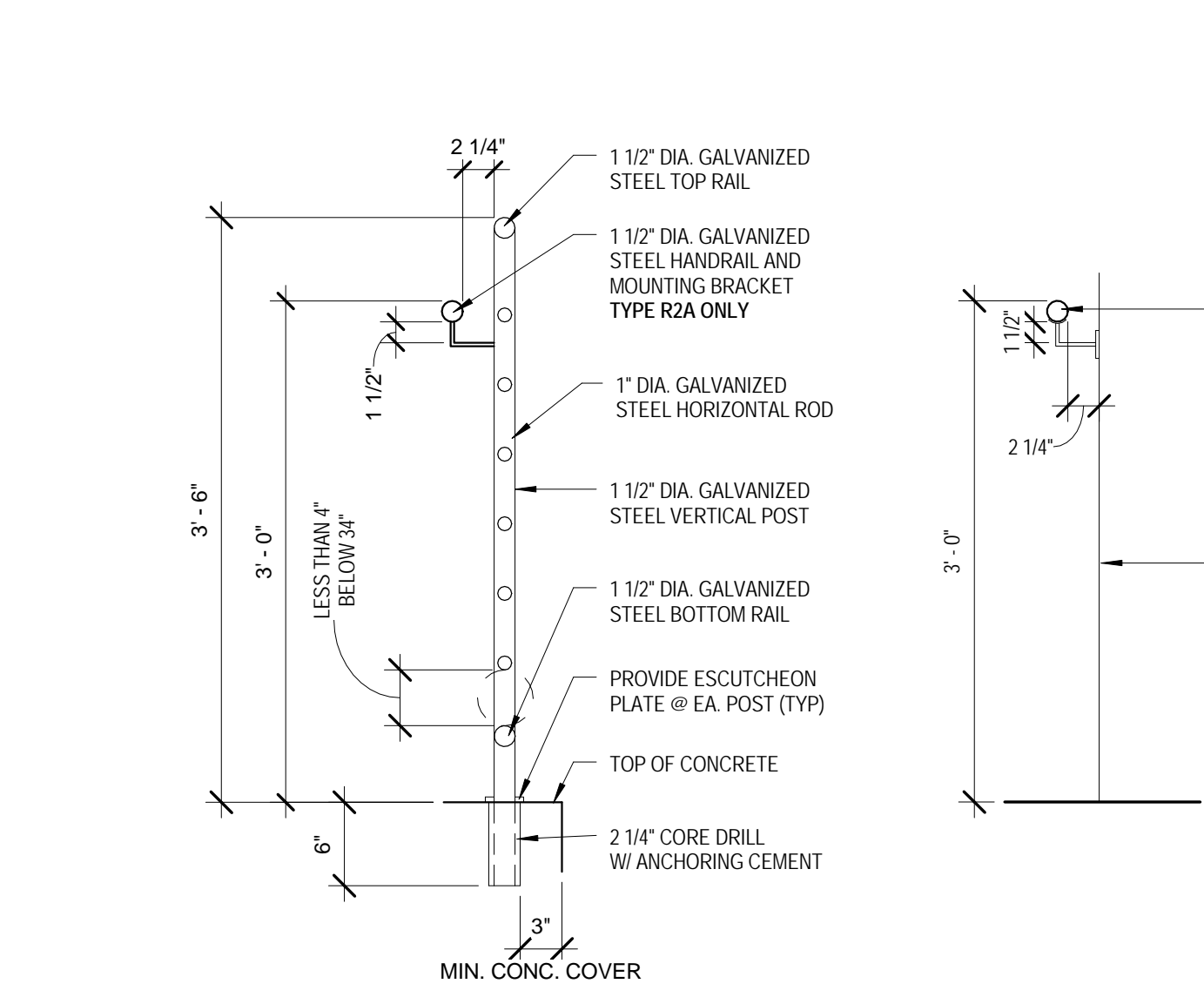
2 RAMP SECTION
SCALE: 1/2" = 1'-0" REF: 1/A8.00



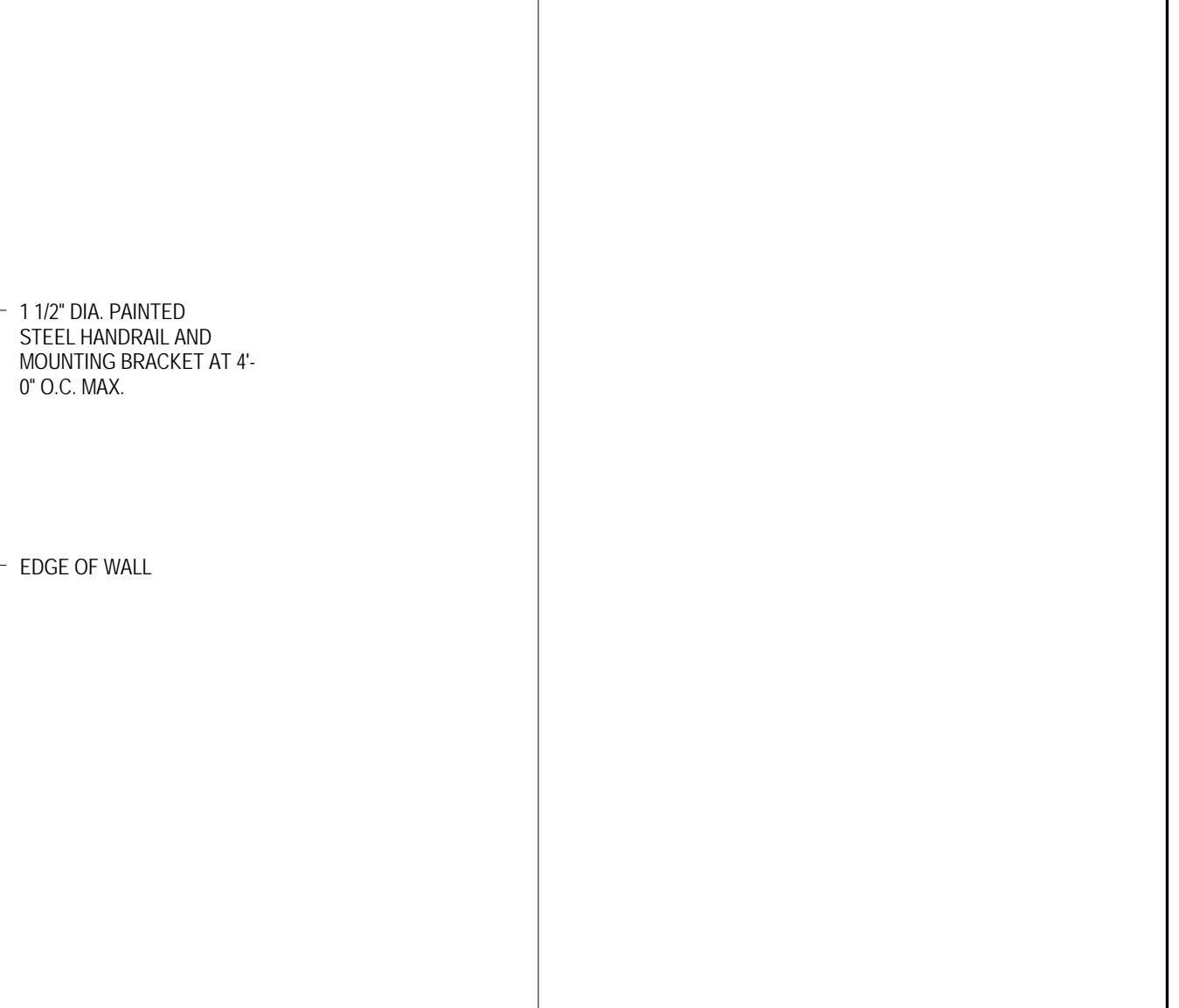
3 ENTRANCE STAIR PLAN
SCALE: 1/2" = 1'-0" REF: 1/A1.00



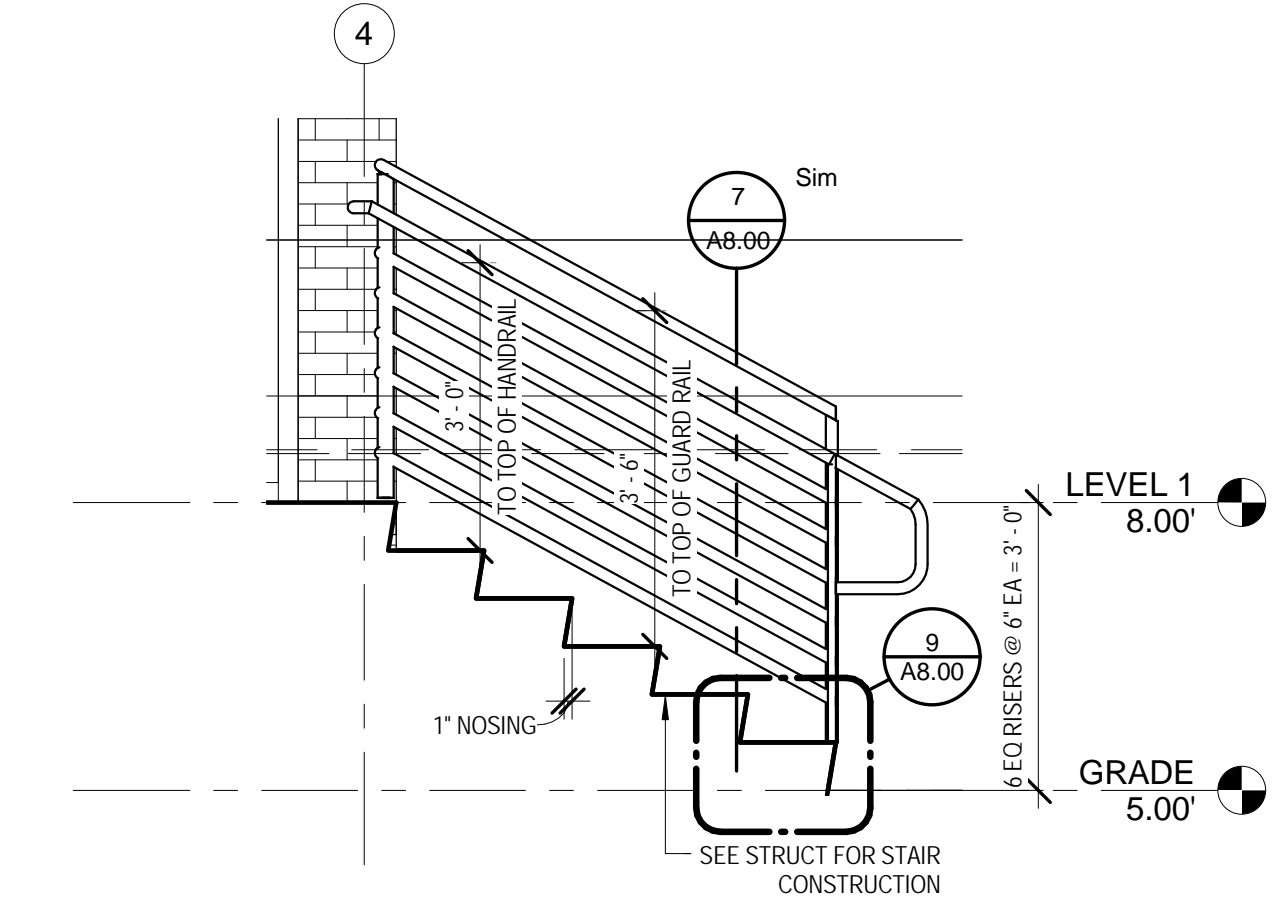
5 REAR STAIR PLAN
SCALE: 1/2" = 1'-0" REF: 1/A1.00



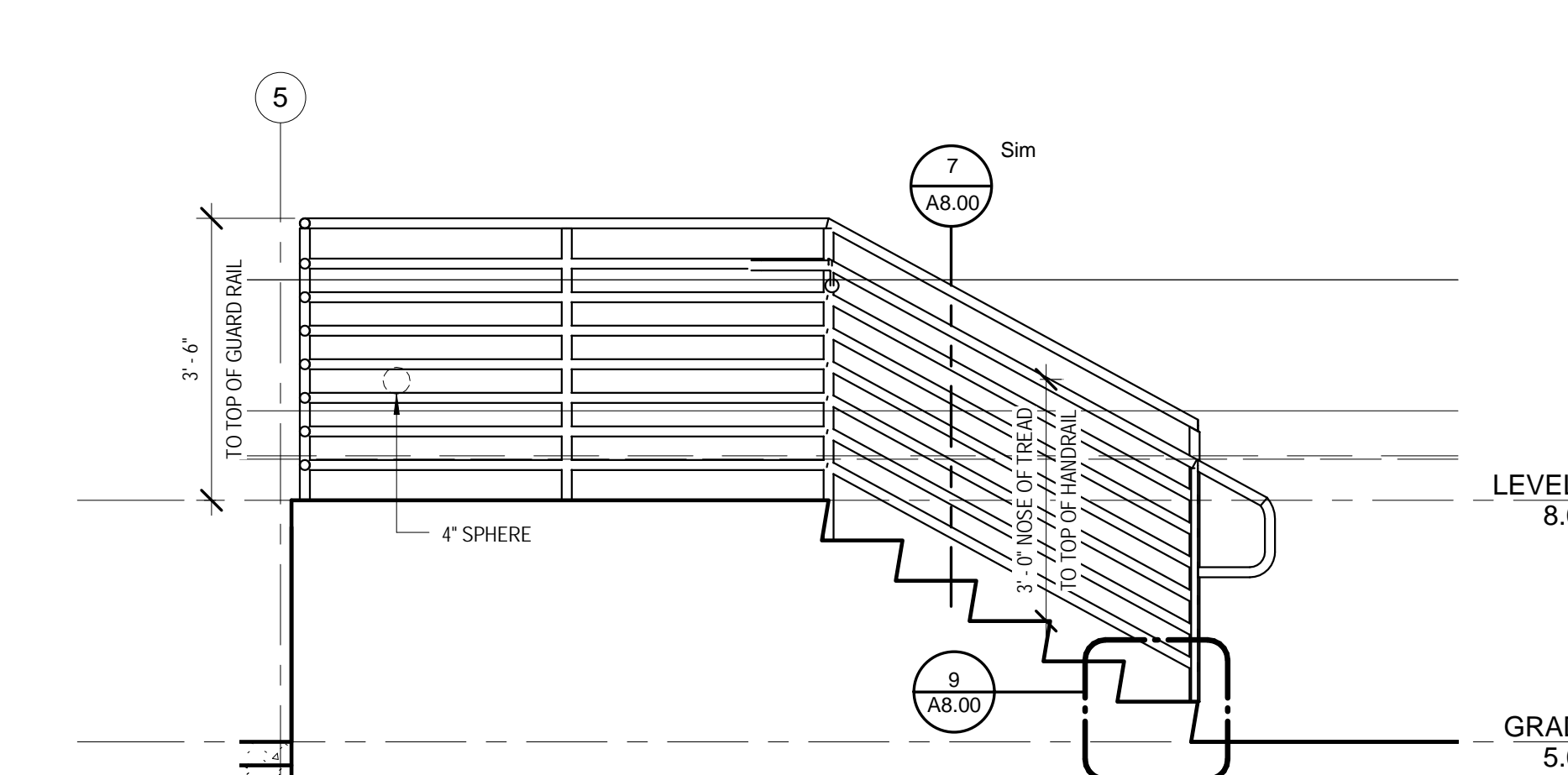
7 GUARDRAIL DETAIL
SCALE: 1" = 1'-0" REF: 4/A8.00



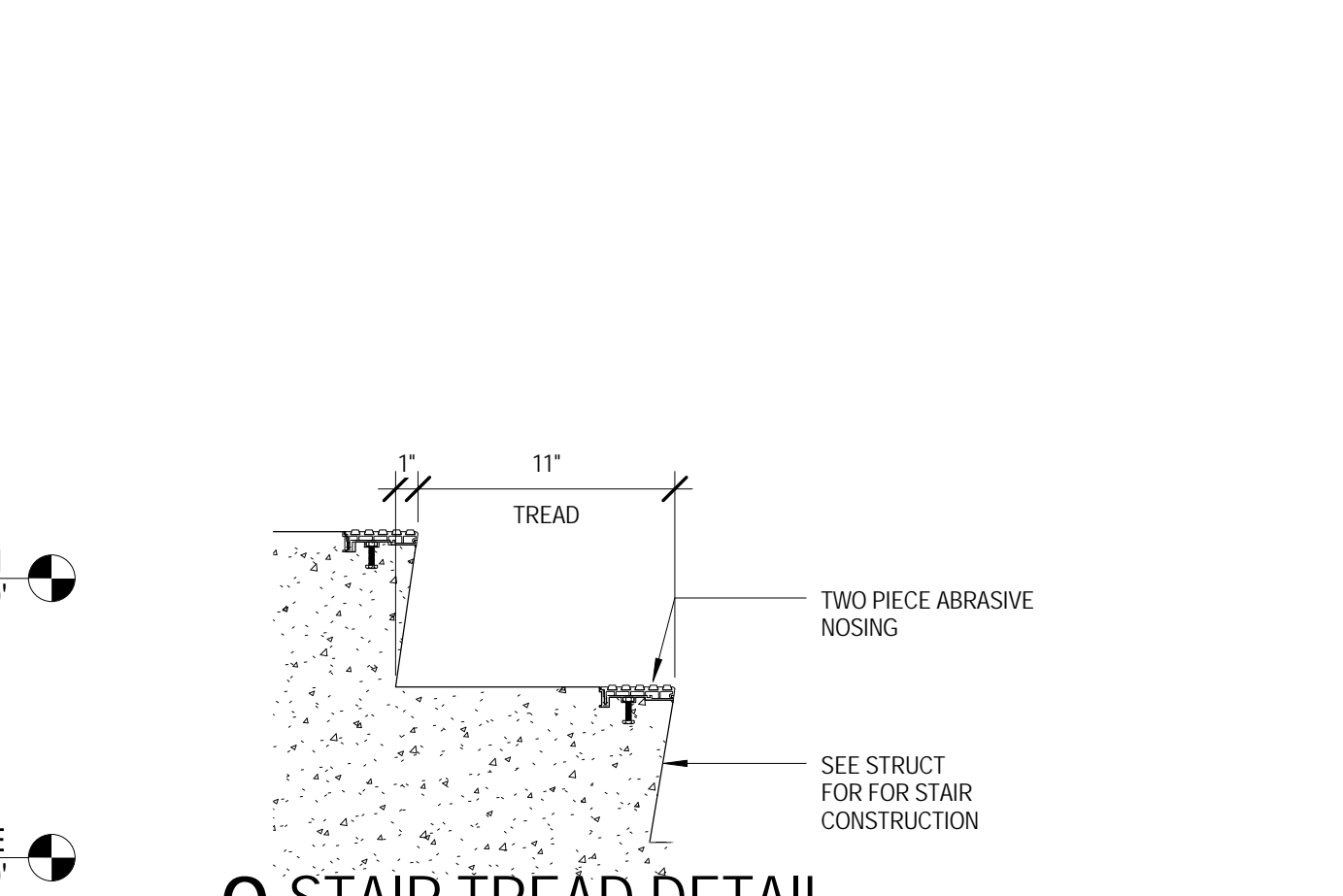
8 WALL MOUNTED HANDRAIL DETAIL
SCALE: 1" = 1'-0" REF: 5/A8.00



4 STAIR SECTION
SCALE: 1/2" = 1'-0" REF: 3/A8.00



6 REAR STAIR SECTION
SCALE: 1/2" = 1'-0" REF: 5/A8.00



9 STAIR TREAD DETAIL
SCALE: 1 1/2" = 1'-0" REF: 4/A8.00

- GENERAL NOTES: STAIRS**
- THE FOLLOWING IS TYPICAL FOR ALL WORK:
1. ALL EXTERIOR AND INTERIOR GUARDRAILS, HANDRAILS, PICKETS, POSTS AND STAIR METAL WORK TO BE GALVANIZED STEEL, U.N.O. NO FIELD WELDING.
 2. REFER TO WALL AND ASSEMBLY SHEETS FOR SPRAY PROOF REQUIREMENTS FOR ALL STRUCTURAL STEEL MEMBERS, FLOOR/CEILING ASSEMBLIES AND ROOF ASSEMBLIES.
 3. ALL HANDRAILS TO BE MIN. 2 1/4" CLEAR FROM WALL/GUARD OR SUPPORT AND BE 1 1/2" DIAMETER.
 4. ALL EXTERIOR STAIRS TO SLOPE 1/8" PER 1'-0" TO PROVIDE POSITIVE WATER SHED.
 5. SEE A1.26 FOR TYPICAL RISER, TREAD AND HANDRAIL DETAILS.
 6. PROVIDE SLIP RESISTANT TREAD INSERTS AT ALL STAIR NOSINGS, U.N.O.
 7. ALL PICKETS TO BE 4" O.C.
 8. CONTRACTOR TO COORDINATE EXTERIOR STAIRS WITH CIVIL SPOT GRADES. ALL RISERS TO BE OF EQUAL HEIGHT PER STAIR RUN. RISERS SHALL BE MIN. 4" AND SHALL NOT EXCEED 7" AS PER CODE.
 9. UNDER STAIR CANE DETECTION RAILS TO BE INSTALLED UNDER INTERIOR STAIRS AND LANDINGS AT AREAS WHERE CLEARANCE IS LESS THAN 6'-8". DETECTION RAILS TO BE FULLY ENCLOSED TO PREVENT ACCESS. 1 1/2" DIA. RAIL AT 27" A.F.F. TO HAVE POSTS AT 4'-0" O.C.

Perez.

ARCHITECTURE
ENGINEERING
PLANNING
INTERIORS
LANDSCAPE
GRAPHICS

Perez
A PROFESSIONAL CORPORATION
317 BURGUNDY STREET, SUITE 11
NEW ORLEANS, LA 70112
WWW.PEREZ.COM

St Bernard Parish Sheriff's Substation #47
4700 PARIS ROAD CHALMETTE, LA 70043

CONSTRUCTION DOCUMENTS

DATE: 4-25-14
PROJECT NO.: 01-09-1082-02

REVISIONS:

No.	Date	Description

DRAWN BY: ERIVERS
CHECKED BY: PLYONS

SHEET TITLE
STAIR PLANS AND DETAILS

SHEET NO.
A8.00

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GENERAL NOTES: RCP

THE FOLLOWING IS TYP FOR ALL WORK:

- CEILING PLANE SHALL BE LEVEL AND TRUE AND IN ALIGNMENT WITH ALL LIGHT SPRINKLER, HVAC AND OTHER ELEMENTS INCORPORATED IN ITS CONSTRUCTION
- FASCIAS / SOFFITS SHALL BE LEVEL AND TRUE, FREE OF SURFACE DISTORTION AND DIMENSIONED ACCORDING TO DETAILS SHOWN.
- MECHANICAL, HVAC AND PLUMBING ELEMENTS SHALL AT NO TIME COME IN CONTACT WITH CEILING CONSTRUCTION EXCEPT AS NECESSARY PENETRATIONS MAY REQUIRE.
- SCALES AS STATED ARE VALID ON THE ORIGINAL DRAWING ONLY. DO NOT SCALE FROM THESE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER GRAPHIC PRESENTATION. DETAIL DIMENSIONS TAKE PRECEDENCE OVER PLAN DIMENSIONS.
- NOTIFY ARCHITECT OF ANY DIMENSIONAL DISCREPANCIES. ANY MODIFICATIONS OR DEVIATION TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR REVIEW AND APPROVAL.
- LIGHTS SHOWN IN 2x2 CEILING TILES SHALL BE CENTERED U.N.O.
- CONTRACTOR TO COORDINATE WITH ARCHITECT IF ANY LOCATION OF LIGHT FIXTURES OR DEVICES ARE NOT SHOWN DIMENSIONALLY PRIOR TO INSTALLATION.
- PROVIDE SEMI-RIGID SOUND ATTENUATION BLANKETS WHERE INDICATED ON DETAILS OR PLAN.
- MECHANICAL AND ELECTRICAL CONTRACTOR SHALL COORDINATE WORK BETWEEN THE ENGINEERING AND THE ARCHITECTURAL DRAWINGS. ARCHITECTURAL CEILING PLAN SHALL GOVERN WITH RESPECT TO AESTHETIC CONSIDERATIONS, QUANTITY, LOCATIONS FOR FIXTURES, DEVICES ETC. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF QUANTITIES INDICATED ON PLANS. MECHANICAL AND ELECTRICAL CEILING PLAN SHALL GOVERN WITH RESPECT TO FUNCTIONAL CONSIDERATIONS AND OVERALL SCOPE OF WORK.
- ALL ACCESS PANELS SHALL BE LOCATED BY ARCHITECT. ANY AREAS REQUIRING ACCESS IN GWB CEILING SHALL BE NOTED TO ARCHITECT PRIOR TO FINAL PRICING.
- SPRINKLER HEADS ARE AS FOLLOWS:
-GWB CEILING - FLUSH CONCEALED TYPE CENTER ON LIGHT
-2x2 CEILING - SEMI-RECESSED CENTERED IN TILE
- CONTRACTOR TO ENSURE CLEARANCE IS MAINTAINED BETWEEN SUSPENDED LIGHT FIXTURES AND WALL MOUNTED SMART BOARDS.
- IN AREAS WITH EXPOSED CEILINGS, CONTRACTOR TO PAINT ALL EXPOSED ELEMENTS. CONFIRM COLOR WITH ARCHITECT.

LEGEND

- CEILING TYPE
- A 9'-0"
- CEILING HEIGHT VALUE
- RECESSED CAN
 - 2 X 2 LAY IN
 - 2 X 4 LAY IN
 - DIRECTIONAL EXIT SIGN
 - EXTERIOR SURFACE MOUNT
 - WALL MOUNTED EMERGENCY

CEILING TYPES LEGEND

- TYPE A
- 5/8" GYP BD
- TYPE B
- 2X2 ACT
- TYPE C
- 1" CEMENT PLASTER

DATE: 4-25-14
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REVISIONS:

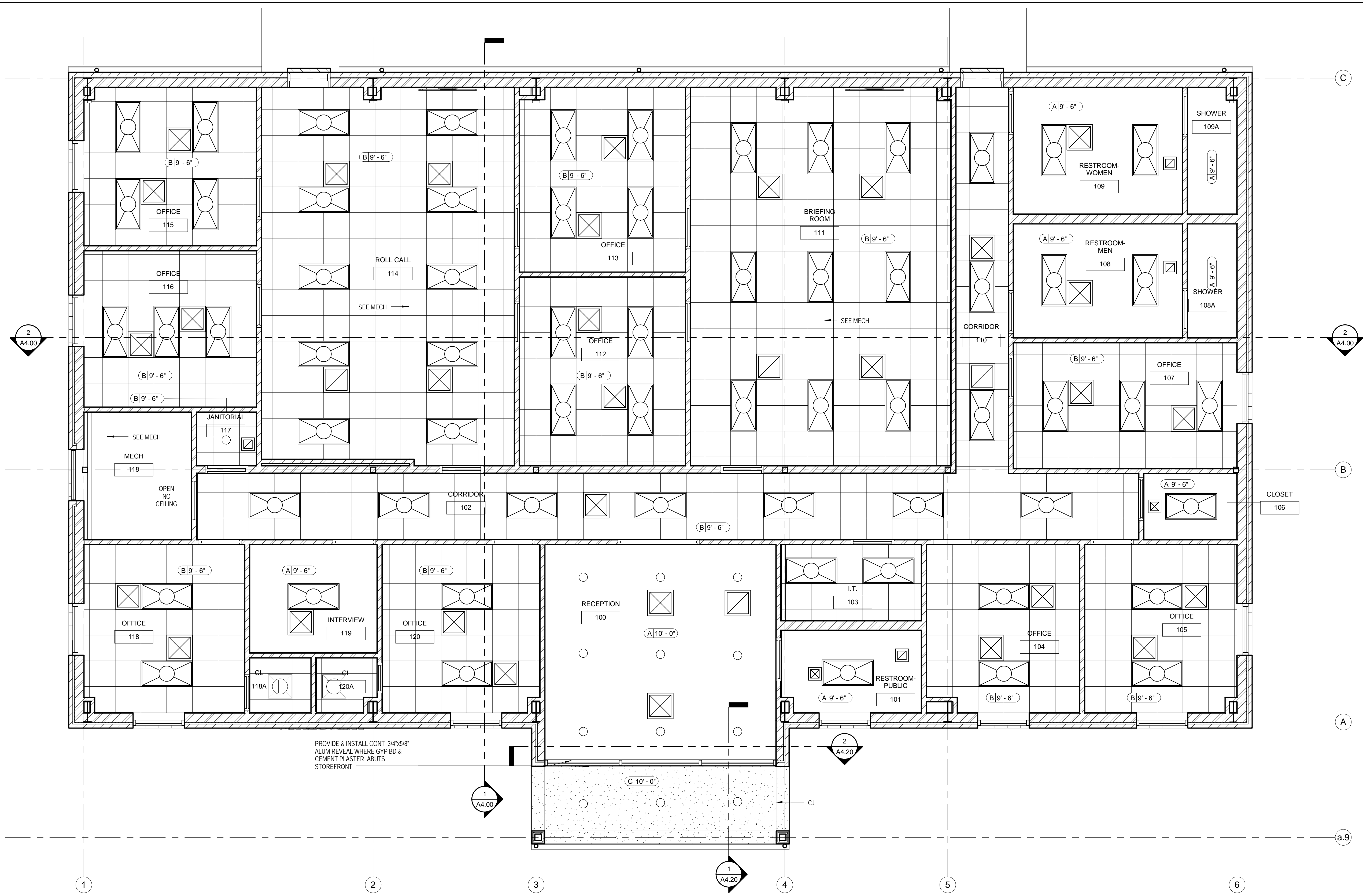
No.	Date	Description

DRAWN BY: ERIVERS
CHECKED BY: PLYONS

SHEET TITLE

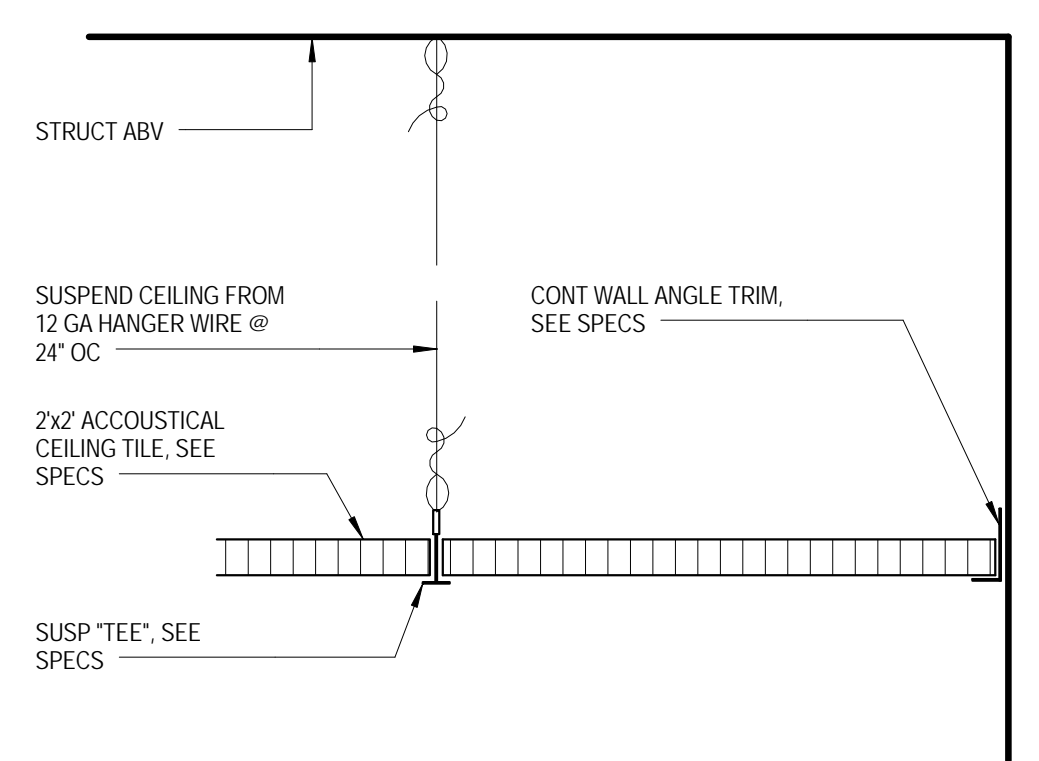
REFLECTED
CEILING PLANS
SHEET NO

A9.00

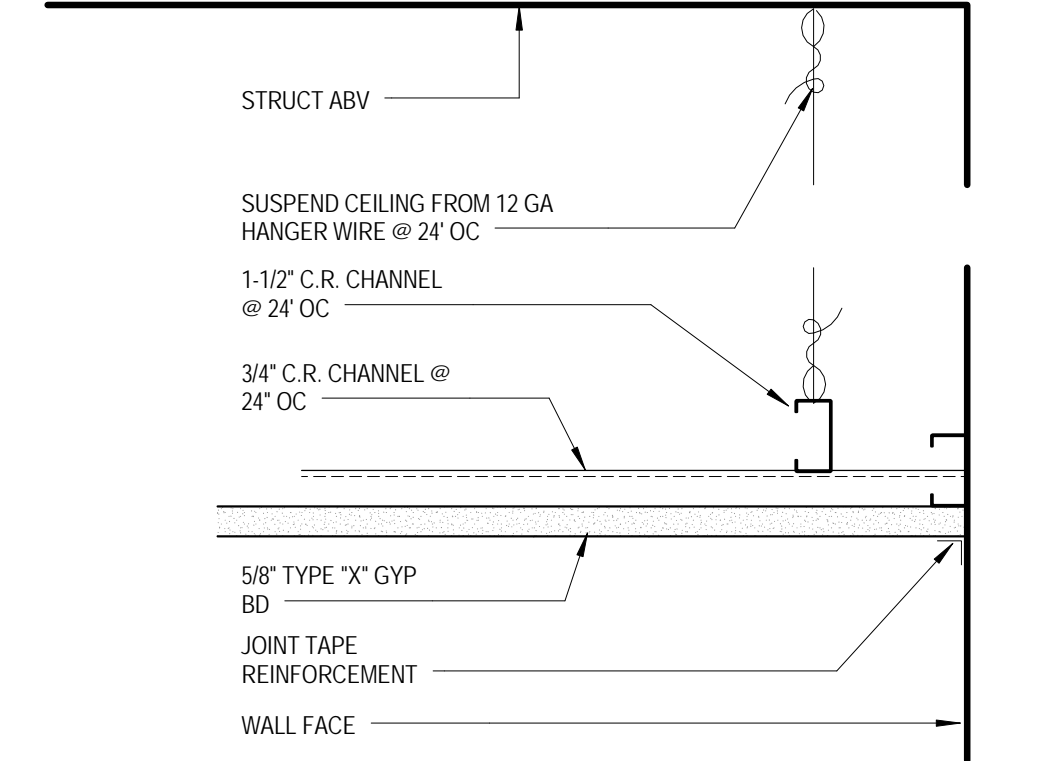


PROVIDE & INSTALL CONT 3/4"x5/8" ALUM REVEAL WHERE GYP BD & CEMENT PLASTER ABUTS STOREFRONT

1 REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0" REF: 3/A1.10

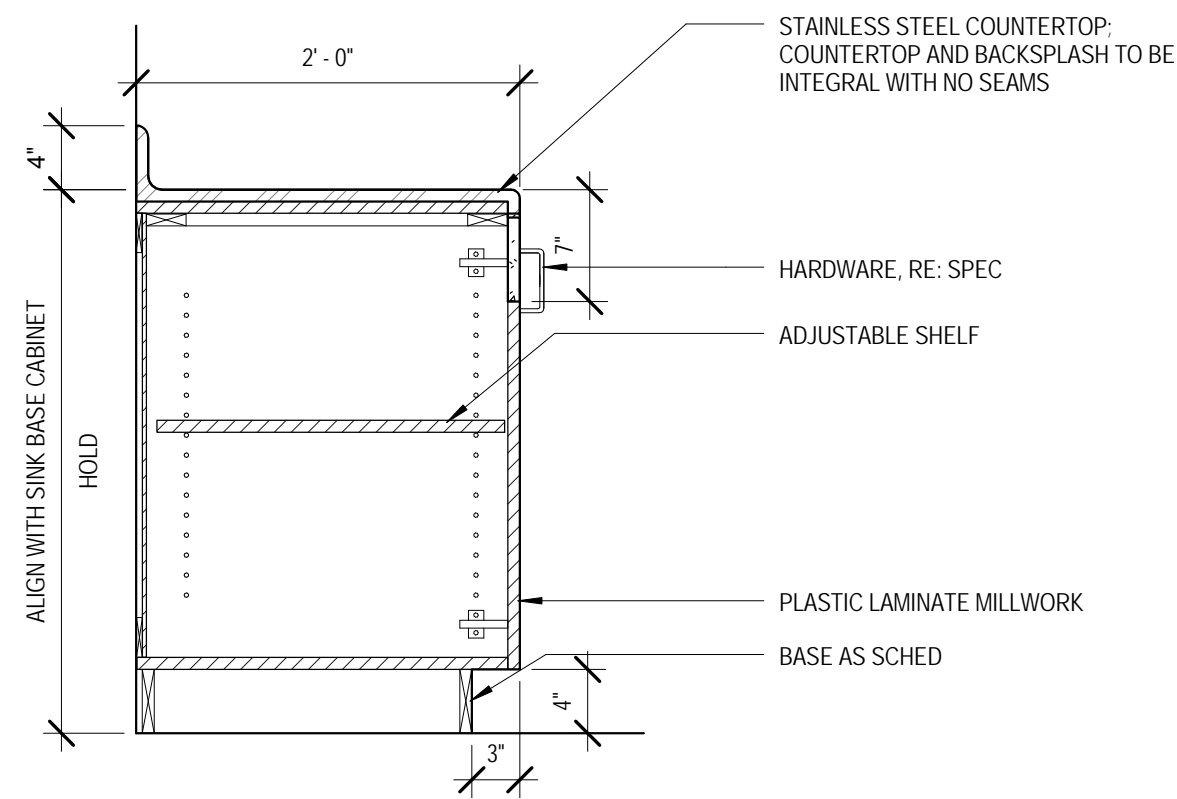


2 SUSPENDED ACT CEILING DETAIL
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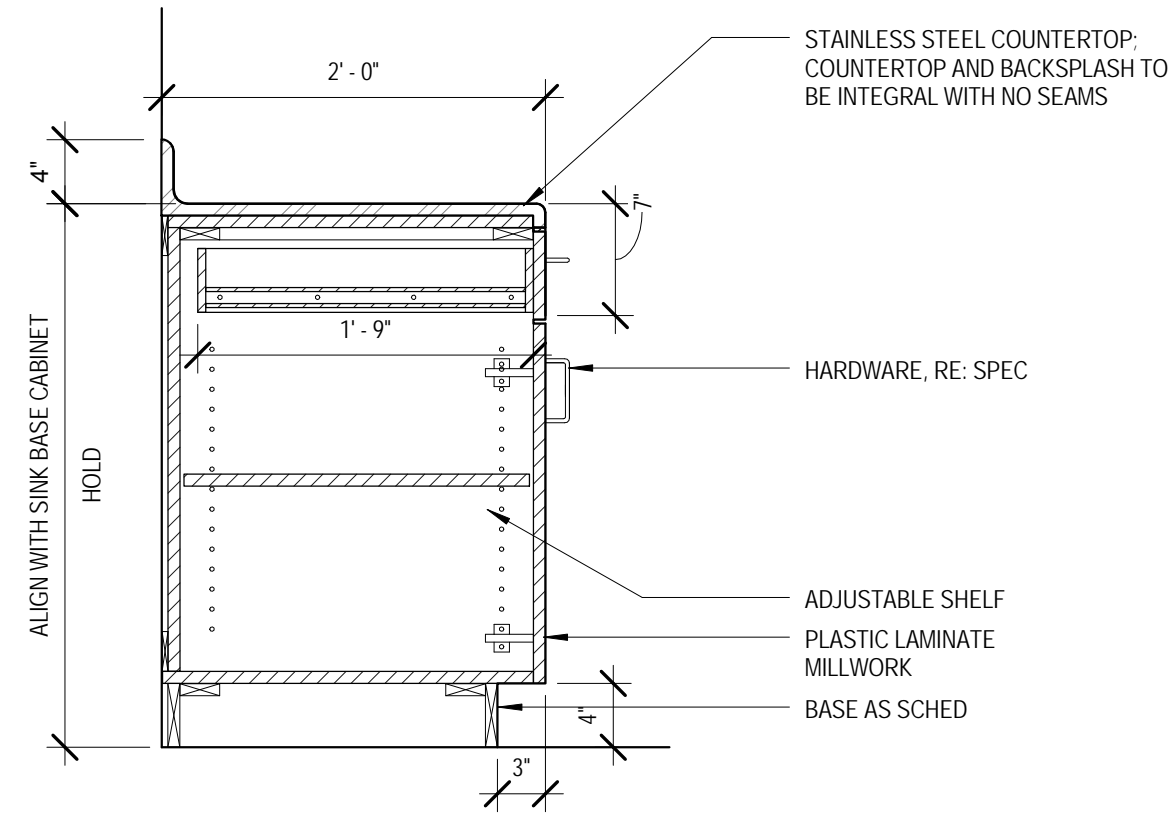


3 SUSPENDED GYP BD CEILING DETAIL
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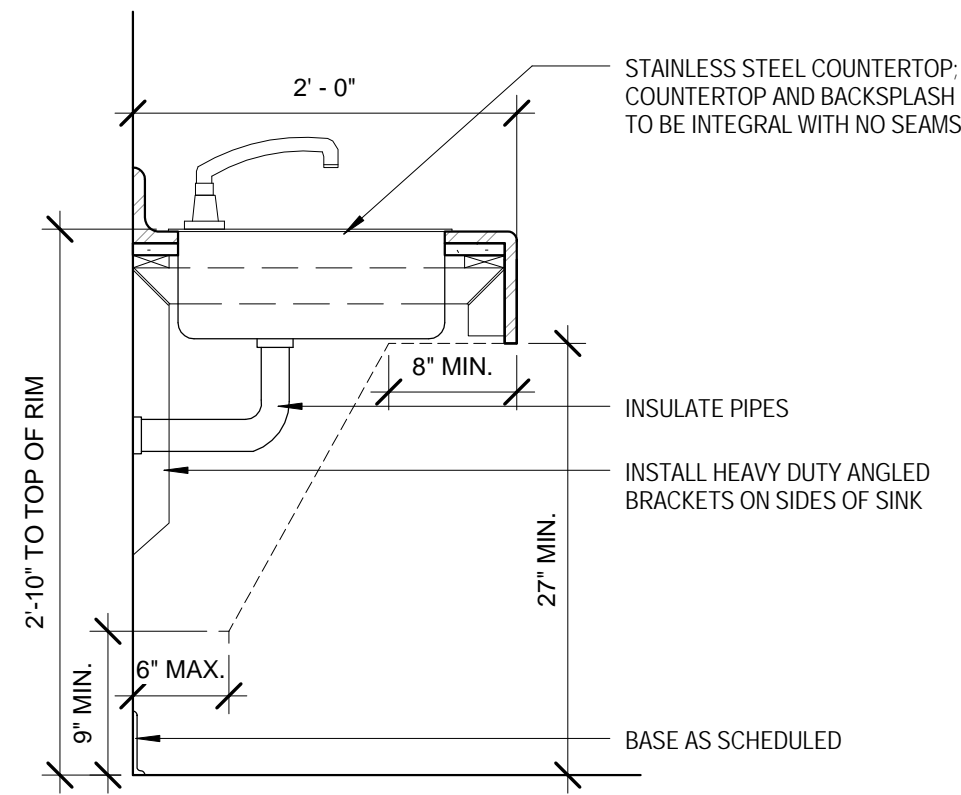
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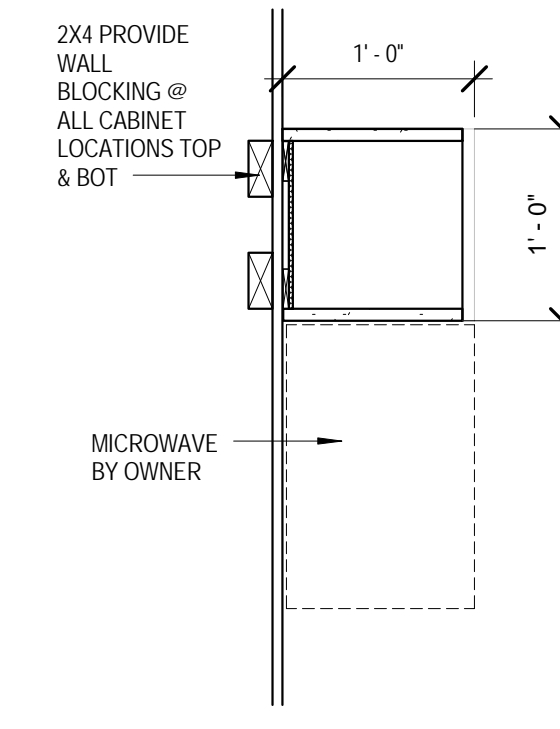
1 BASE CABINET
SCALE: 1" = 1'-0" REF: /



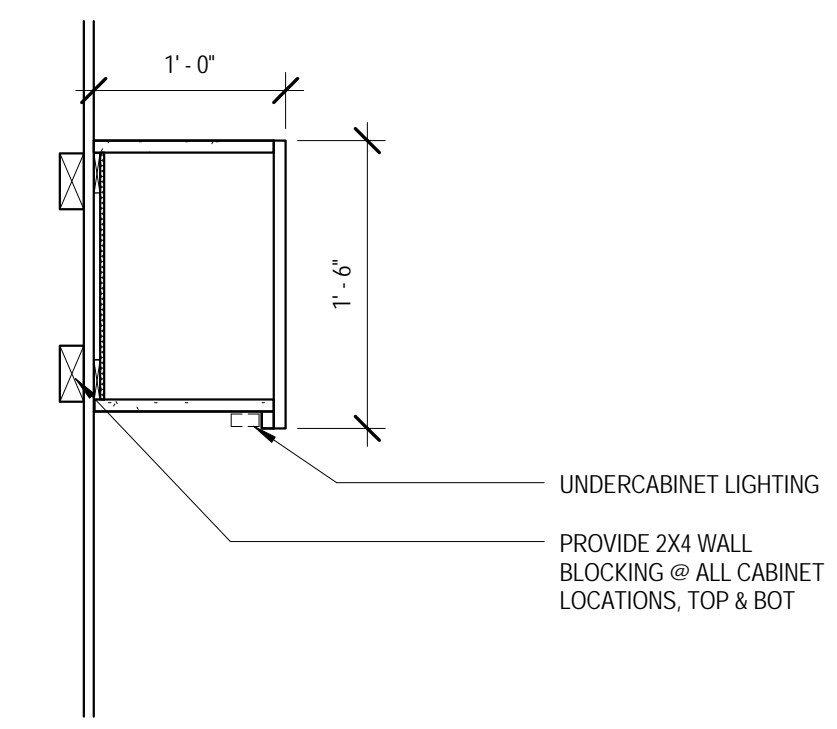
2 BASE CABINET WITH DRAWER
SCALE: 1" = 1'-0" REF: 8/A1.10



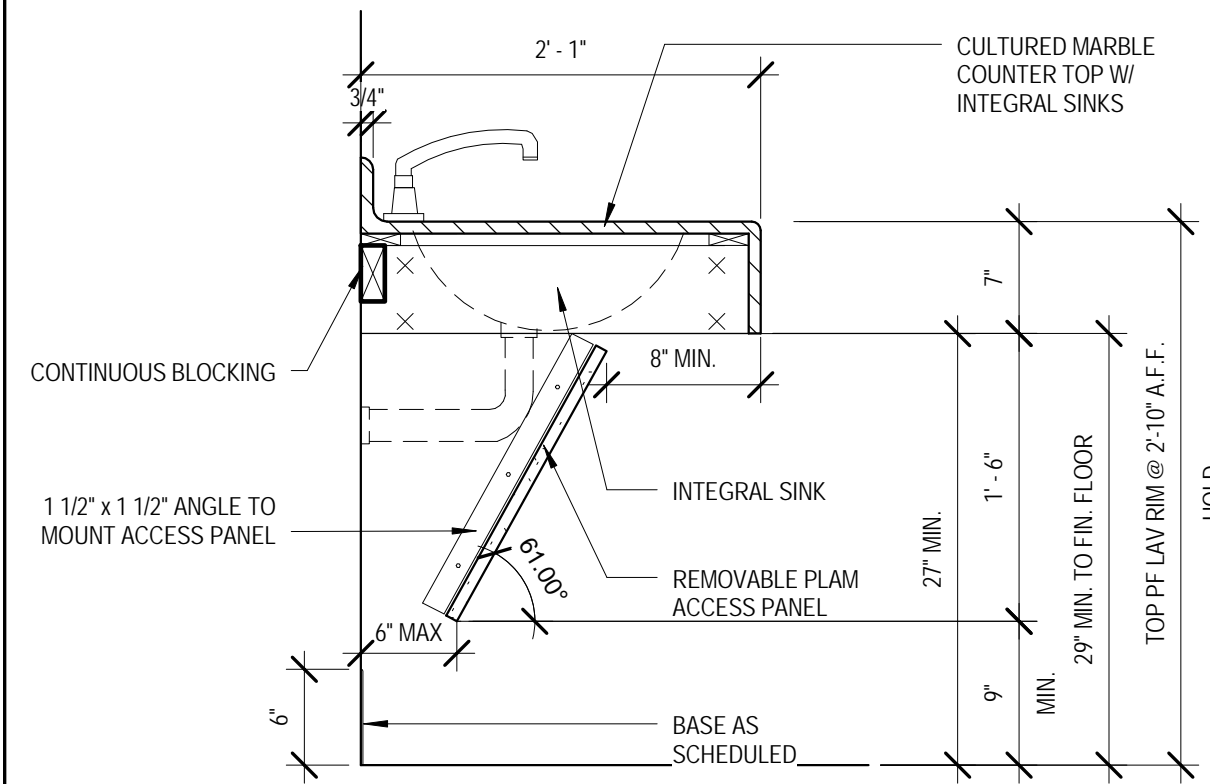
3 BASE CABINET WITH SINK
SCALE: 1" = 1'-0" REF: 8/A1.10



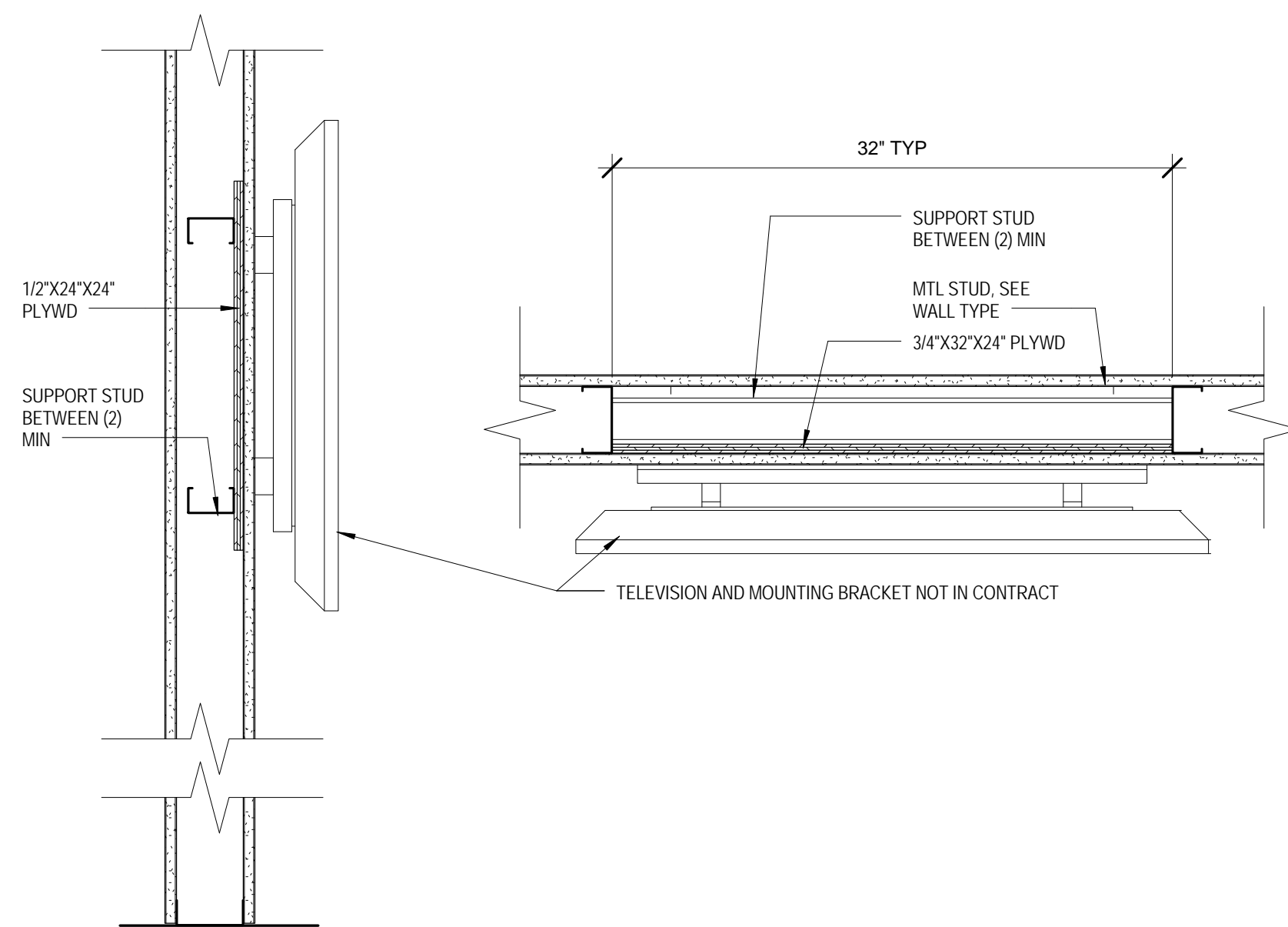
4 UPPER CABINET WITH OPEN SHELVES
SCALE: 1" = 1'-0" REF: 8/A1.10



5 UPPER CABINET WITH OPEN SHELVES
SCALE: 1" = 1'-0" REF: 8/A1.10



6 RESTROOM VANITY DETAIL
SCALE: 1" = 1'-0" REF: 3/A1.10



7 TELEVISION BLOCKING DETAILS
SCALE: 1 1/2" = 1'-0" REF: /

DATE: 4-25-14
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REVISIONS:		
No.	Date	Description

DRAWN BY: ERIVERS
CHECKED BY: PLYONS
SHEET TITLE

CASEWORK
SHEET NO

A9.50

GENERAL NOTES:

GENERAL:

1. DESIGN CODES AND GENERAL CRITERIA:
 - A. 2012 INTERNATIONAL BUILDING CODE.
 - B. ACI 318-08 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.
 - C. AISC SPECIFICATION FOR STRUCTURAL STEEL FOR BUILDINGS - ALLOWABLE STRESS DESIGN, THIRTEENTH EDITION.
 - D. AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.
 - E. AISI COLD FORMED STEEL DESIGN MANUAL, 1996 EDITION.
 - F. ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.

2. DESIGN LOADS: SUPERIMPOSED DEAD LOADS

COLLATERAL LOADS ON ROOF PURLINS	7psf
CARPET/SOFTFIT/MISCELLANEOUS	3psf
PARTITIONS	20psf

LIVE LOADS

FLOOR	100psf + 1K CONC. LOAD
ROOF	20psf

COLLATERAL FLOOR (EXCLUDES PIPING)

FLOOR	10psf
-------	-------

GROUND SNOW LOAD, P_g = 0 psf

WIND LOADS

BASIC WIND SPEED (3 SECOND GUST)	145 MPH
RISK CATEGORY	II
WIND EXPOSURE CATEGORY	C
INTERNAL PRESSURE COEFFICIENT, G _{cp}	+0.18/-0.18
COMPONENT AND CLADDING DESIGN LOAD PER CHART	ASCE 7- SEE CHART

SEISMIC DESIGN (IBC 2012)
 SEISMIC IMPORTANCE FACTOR, I 1.0
 ANALYSIS PROCEDURE USED EQUIVALENT LATERAL FORCE PROCEDURE (IBC 2012)
 GENERAL CONTRACTOR TO DESIGN LIGHT GAUGE AND STRUCTURAL STEEL CONNECTIONS BASED ENGINEERED DETERMINED SEISMIC LOADINGS BASED ON THE EQUIVALENT LATERAL FORCE PROCEDURE PER IBC 2012.

3. STRUCTURAL SPECIFICATIONS HAVE BEEN ISSUED AS A PART OF THESE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL COMPARE SPECIFICATIONS TO STRUCTURAL ARCHITECTURAL, CIVIL, AND MEP DRAWINGS. DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER.
4. EXISTING CONDITIONS: EACH BIDDER SHALL VISIT THE JOB SITE AS REQUIRED TO DETERMINE AND/OR VERIFY EXISTING CONDITIONS. ANY EXCEPTIONS TO EXISTING CONDITIONS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
5. SEE ARCHITECTURAL DRAWINGS FOR FLOOR ELEVATIONS, SLOPES AND LOCATIONS OF DEPRESSED FLOOR AREAS BEFORE STARTING WORK. THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES. ALL FLOOR DEPRESSIONS ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS. CONTRACTOR TO COORDINATE WITH ALL OF THE CONTRACT DOCUMENTS TO DETERMINE FLOOR DEPRESSIONS AND DRAIN AND SLAB PENETRATIONS.
6. CONTRACTOR PROPOSED ALTERNATES TO THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS WILL BE CONSIDERED IF THEY RESULT IN A SUBSTANTIAL SAVINGS TO THE OWNER WITHOUT ADVERSELY IMPACTING THE INTEGRITY AND FUNCTION OF THE STRUCTURE. ANY REQUEST FOR SUBSTITUTION SHALL BE ACCOMPANIED BY WRITTEN DOCUMENTATION OF THE SAVINGS INCLUDING ALL BACKUP DATA AND ENGINEERING CALCULATIONS NECESSARY TO EVALUATE THE MERITS OF THE PROPOSED ALTERNATE. ADDITIONAL ENGINEERING AND ARCHITECTURAL REVIEW COST MAY ALSO IMPACT THE VIABILITY OF ANY PROPOSED ALTERNATE.
7. ROOF FRAMING HAS BEEN DESIGNED ASSUMING FREE WATER DRAINAGE. ROOF DRAINAGE SYSTEM MUST BE DESIGNED BY OTHERS TO ADEQUATELY DISSIPATE WATER, PREVENTING ACCUMULATION ON THE STRUCTURE.
8. THE CONTRACTOR SHALL COMPARE STRUCTURAL DRAWINGS TO ARCHITECTURAL, CIVIL AND MEP. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER.

9. BRACING AND SHORING:
 - A. ALL WALLS SHALL BE LATERALLY BRACED UNTIL THE ROOF SYSTEMS ARE IN PLACE AND COMPLETE.
 - B. ALL STRUCTURAL STEEL SHALL BE PROPERLY GUYED AND BRACED UNTIL ROOF AND LATERAL LOAD RESISTING FRAMING SYSTEMS ARE IN PLACE AND COMPLETE.
 - C. ALL LIGHT GAUGE WALLS SHALL BE BRACED TO THE FLOOR OR ROOF STRUCTURE WITH 22 GAUGE STUDS @ A MIN. OF 48" OC MAX IN ALTERNATING DIRECTIONS.
10. ALL CONTRACTOR DESIGNED ELEMENTS SHALL BE DESIGNED BY STRUCTURAL ENGINEERS LICENSED IN THE STATE OF THE PROJECT. CONTRACTORS SHALL SUBMIT CERTIFICATION THAT ELEMENTS WERE DESIGNED FOR LOADS SPECIFIED ON DRAWINGS OR IN THE BUILDING CODE. A CERTIFICATE OF ERRORS AND OMISSION INSURANCE WITH LIABILITY LIMITS OF \$1,000,000 AGGREGATE SHALL BE PROVIDED TO THE STRUCTURAL ENGINEER, ARCHITECT, AND OWNER.
11. SHOP DRAWINGS: CONTRACTOR SHALL SUBMIT A MINIMUM OF SIX SETS OF PRINTS FOR ALL SHOP DRAWINGS SUBMITTED FOR THE ARCHITECT/ENGINEER REVIEW, UNLESS THE ARCHITECTURAL SPECIFICATIONS CALL FOR ADDITIONAL SETS TO BE ISSUED. REPRODUCTIONS OF CONTRACT DRAWINGS SHALL NOT BE USED FOR SHOP DRAWINGS. ELECTRONIC FILES ARE NOT AVAILABLE FOR USE BY SUBCONTRACTORS. STEEL SHOP DRAWINGS SHALL TAKE 15 WORKING DAYS TO COMPLETE REVIEW.
12. THE STRUCTURAL DRAWING INDICATE THE DESIGN INTENT OF THE FINAL FINISHED STRUCTURE. ALL BRACING (LATERAL OR OTHERWISE) AND SHORING REQUIRED SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. ALL STRUCTURAL STEEL TRUSSES AND CMU WALLS SHALL BE GUYED AND ADEQUATELY BRACED UNTIL THE ROOF AND ALL LATERAL LOAD RESISTING SYSTEMS ARE IN PLACE AND COMPLETE.
13. THIS STRUCTURE HAS BEEN DESIGNED BY THIS OFFICE TO WITHSTAND THE REQUIRED CODE LATERAL AND VERTICAL LOADINGS OF THE FINAL COMPLETED STRUCTURE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE SHORING, BRACING, GUYING, ETC. AS REQUIRED TO ENSURE THE INTEGRITY OF THE STRUCTURE PRIOR TO COMPLETION OF THE ENTIRE BUILDING. THE CONTRACTORS MEANS AND METHODS THAT RESULT IN INADEQUATE INSTALLATION OF PARTS OF THE STRUCTURE OR RESULT IN DIFFICULTIES IN ERECTING THE STRUCTURE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE CORRECTED BY THE CONTRACTOR AT NO COST TO THE OWNER.
14. ALL DIMENSIONS ARE BASED ON THE ARCHITECTURAL PLANS. THE CONTRACTOR SHALL NOT ASSUME THAT THE DIMENSIONS SHOWN ON THE STRUCTURAL PLANS ARE CORRECT. THE ARCHITECTURAL DIMENSIONS CONTROL.
15. BRICK JOINTS SHALL CONFORM TO THE BRICK INSTITUTE OF AMERICA TECHNICAL GUIDE 18A. THE CONTRACTOR SHALL SUBMIT A JOINT LAYOUT FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.

FOUNDATION NOTES:

1. GEOTECHNICAL INVESTIGATION PERFORMED BY BETA TESTING:

ESTIMATED/DESIGN PILE INFORMATION:

PILE TYPE	6" TIP, 8" BUTT TREATED TIMBER PILE (ASTM D25)
PILE LENGTH	40 FT
DESIGN CAPACITY	8 TONS

- PRE-PUNCHING OF PILES WITH MANDREL UP TO 6'-7" WILL BE REQUIRED. TEST PILE PROGRAM PER SPECIFICATIONS. TWO PROBE PILES, ONE TESTED IN COMPRESSION.
2. POSITIVE SURFACE DRAINAGE AWAY FROM THE STRUCTURES SHALL BE ESTABLISHED AND MAINTAINED AT ALL TIMES BOTH DURING AND AFTER CONSTRUCTION. WATER SHALL NOT BE ALLOWED TO COLLECT NEAR THE BUILDING SITE AT ANY TIME.
 3. FINISH GRADES OF FILL: THE FINISH GRADES OF FILL AGAINST GRADE BEAMS SHALL SLOPE AWAY FROM THE BUILDING A MINIMUM OF SIX (6) INCHES IN SIX (6) FEET. CARE SHALL BE TAKEN THAT NO LOW SPOTS EXIST IN FILL THAT ALLOWS WATER TO COLLECT.
 4. BACKFILL ADJACENT TO GRADE BEAMS SHALL CONSIST OF AN IMPORTED SANDY CLAY FILL. COMPACTION OF THE BACKFILL SHALL BE PERFORMED AS SPECIFIED IN COMPACTION NOTE.
 5. BACKFILL FOR UTILITY LINES SHALL BE CAREFULLY CHOSEN AND COMPACTED. USE OF COMPACTED RIVER SAND IS RECOMMENDED. SOILS OF LOW PLASTICITY (PI LESS THAN 25) SHALL NOT BE USED. THE BASE OF ALL UTILITIES SHALL REQUIRE A MINIMUM OF 6" OF COMPACTED CRUSHED LIMESTONE OR CRUSHED CONCRETE WITH A MINIMUM DEPTH OF 6". UNLESS OTHERWISE SPECIFIED BY CIVIL OR SPECIFICATIONS.
 6. SIDEWALKS AND EXTERIOR PORCH AREAS SHALL BE STRUCTURALLY CONNECTED TO THE BUILDING AND SHOULD SLOPE AWAY FROM THE BUILDING SO THAT WATER WILL NOT FLOW TOWARD THE BUILDING. STRUCTURALLY CONNECT SIDEWALKS AND PORCHES NOT PILE SUPPORTED WITH PILES SHALL HAVE #4 BARS x 6" @ 18" OC (MIN. OF THREE BARS REQ'D), EPOXY GROUTED AND EMBEDDED INTO THE EXISTING PILE SUPPORTED STRUCTURE. THIS IS TYPICAL EVEN IF NOT NOTED ON THE DRAWINGS.

CONCRETE NOTES:

1. ALL STRUCTURAL CONCRETE SHALL BE CLASSIFIED AS NORMAL WEIGHT CONCRETE WITH A UNIT WEIGHT OF 145 LBS/CU. FT. CONCRETE MEMBERS SHALL NOT BE LOADED UNTIL THE SPECIFIED CONCRETE STRENGTH HAS BEEN ACHIEVED. AT THE CONTRACTOR'S OPTION, HIGHER STRENGTH CONCRETE MAY BE SUPPLIED TO ACCELERATE SCHEDULE.
2. MINIMUM CONCRETE 28 DAY COMPRESSIVE STRENGTH AND SLUMP:

	STRENGTH:	SLUMP:
GRADE BEAMS	4000 psi	3IN./MIN.
SLABS ON GRADE	4000 psi	2IN./MIN.
ALL OTHER CONCRETE	4000 psi	3IN./MIN.

CONCRETE MIX DESIGNS FROM THE CONCRETE SUPPLIER AND TEST RESULTS FROM THE TESTING LAB SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR EVALUATION AND APPROVAL. ALL CONCRETE SLABS SHALL HAVE POLYPROPYLENE FIBERS ADDED TO THE MIX AT A RATE OF 1.5LBS PER CY. THIS DOES NOT INCLUDE THE GRADE BEAMS OR PILES AND ONLY REQUIRED FOR THE PILE SUPPORTED PORTIONS OF THE BUILDING SLAB.

3. ALL CAST-IN-PLACE CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI 301, LATEST EDITION.
4. ALL DETAILING, FABRICATION AND INSTALLATION OF STEEL REINFORCEMENT SHALL BE IN ACCORDANCE WITH ACI 315 AND ACI 318 (LATEST EDITIONS).
5. CONCRETE REINFORCING: REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60 BARS.
6. MINIMUM COVERAGE ON REINFORCING STEEL:

CONCRETE CAST AGAINST EARTH	3"	CLEAR TO STIRRUP
CONCRETE CAST AGAINST WOOD FORMS	2"	CLEAR TO STIRRUP
7. GRADE BEAMS: GRADE BEAMS SHALL BE OF THE SIZE AND WIDTH AS INDICATED ON PLANS. BEAMS MAY BE TRENCH FORMED BUT CARE SHALL BE TAKEN TO ACCURATELY TRENCH BEAMS TO WIDTHS AND DEPTHS INDICATED. TRENCHES SHALL BE KEPT CLEAN AND CARE SHALL BE TAKEN TO PREVENT SLOUCHING OF TRENCH SIDES. VAPOR BARRIER SHALL BE FOLDED INTO TRENCH TO WITHIN 2 INCHES OF TRENCH BOTTOM. LAP VAPOR BARRIER A MINIMUM OF 12" AND TAPE WITH MANUF. RECOMMENDED TAPE. DETAIL REINFORCING AND PROVIDE CORNER BARS AT GRADE BEAM INTERSECTIONS TO MATCH HORIZONTAL REINFORCING. SPLICE BOTTOM REINFORCING WHEN NECESSARY OVER SUPPORTS. SPLICE TOP REINFORCING WHEN NECESSARY AT MID-SPAN. ALL SPLICES SHALL BE IN ACCORDANCE WITH THE ACI 318 AND THE TYPICAL DETAILS CONTAINED ON THE DRAWINGS IF INDICATED.

8. SLABS ON GRADE: SLABS ON GRADE SHALL BE OF THE THICKNESS AND REINFORCEMENT AS SHOWN ON DRAWINGS. SLAB REINFORCING SHALL BE AS NOTED ON THE DRAWINGS. CARE SHALL BE TAKEN TO MAINTAIN SLAB REINFORCEMENT POSITION DURING PLACING OPERATION. SAND BOLSTERS SHALL BE PLACED AT A MINIMUM OF 4" ON CENTER IN EACH DIRECTION.
9. UNLESS NOTED OTHERWISE, PROVIDE 90 DEGREE CORNERS AT ALL EXPOSED EDGES AND CORNERS.
10. PROVIDE CONSTRUCTION JOINTS AS REQUIRED. COORDINATE JOINT LOCATIONS WITH ARCHITECT/ENGINEER AND SUBMIT PLAN SHOWING PROPOSED CONSTRUCTION JOINTS TO ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO POURING SLAB. **POURS SHALL BE LIMITED TO A MAXIMUM SIZE OF 10,000 S.F. SLAB**
11. ALL SLAB POURS SHALL BE REQUIRED TO HAVE A SEVEN DAY CONTINUOUS WET CURE PERIOD PRIOR TO LOADING THE SLAB. THE WET CURE SHALL BEGIN AS SOON AS THE CONCRETE IS SET ENOUGH TO NOT BE DAMAGED BY THE WET CURING PROCESS. ADJACENT SLAB POURS MAY BEGIN DURING THIS WET CURING PROCESS. IN PERIOD OF COLD WEATHER, PROVIDE HEATERS AS REQUIRED DURING THE CURE PROCESS.

STRUCTURAL STEEL NOTES:

1. STRUCTURAL STEEL: ALL WIDE FLANGE SECTIONS SHALL BE ASTM A992. ALL ANGLES, CHANNELS AND PLATES SHALL BE ASTM A36. ALL STRUCTURAL STEEL PIPE SHALL BE ASTM A53 GRADE B. ALL HOLLOW STRUCTURAL STEEL TUBE SECTIONS SHALL BE ASTM A500 GRADE B.
2. STRUCTURAL STEEL SECTIONS SHALL BE DESIGNED, DETAILED FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC "MANUAL OF STEEL CONSTRUCTION", ALLOWABLE STRESS DESIGN, LATEST EDITION. IF INDICATED ALL LOADS SPECIFIED ON THE DRAWINGS ARE SERVICE LOADS.
3. ALL STRUCTURAL STEEL SHALL BE PAINTED WITH A SHOP PRIME COAT AND FIELD RETOUCHEWED WHERE THE SHOP COAT HAS BEEN DAMAGED DUE TO PLACING, HANDLING AND WELDING. ALL STEEL BEAMS SHALL BE FABRICATED WITH NATURAL CAMBER UP. **ALL EXPOSED STEEL SHALL BE GALVANIZED, PRIMED AND PAINTED**
4. ALL BOLTED CONNECTIONS FOR STRUCTURAL STEEL SHALL USE MIN. 3/4" DIAMETER ASTM A325 HIGH STRENGTH BOLTS EXCEPT FOR JOIST BEARING AND BRIDGING WHICH SHALL BE 1/2" DIAMETER ASTM A325 HIGH STRENGTH BOLTS. CONNECTIONS SHALL BE BEARING TYPE WITH THREADS ALLOWED IN THE SHEAR PLANE.
5. ALL ANCHOR RODS SHALL BE ASTM F1554 GR 36/UNFINISHED WITH SUITABLE NUTS & WASHER. UNLESS NOTED OTHERWISE WITH THE EXCEPTION OF ALL EXTERIOR ANCHOR BOLTS SHALL BE G90 HOT DIP GALVANIZED.
6. ALL WELDS SHALL BE MADE USING E70XX LOW HYDROGEN ELECTRODES AND SHALL BE MADE IN ACCORDANCE WITH AISC AND AWS.
7. UNLESS OTHER WISE NOTED ON THE DRAWINGS, THE CONTRACTOR SHALL PROVIDE A BENT PLATE OR ANGLE AS REQUIRED WELDED TO THE SUPPORTING MEMBER FOR THE TERMINATION OF THE STRUCTURAL METAL DECK. ANGLE OR BENT PLATE SHALL BE DEEP/THICK ENOUGH TO SPAN FROM STRUCTURAL MEMBER TO STRUCTURAL MEMBER AS DETERMINED BY THE CONTRACTORS STRUCTURAL ENGINEER, BUT NO DEEPER THAN THE DECKING AND ARCHITECTURAL HORIZONTAL SYSTEM.

LOOSE LINTEL SCHEDULE:
 0'-0" - 5'-0" L6x3-1/2x3/8
 *GALVANIZED

STEEL DECK NOTES:

1. ROOF DECK SHALL BE AS INDICATED ON THE STRUCTURAL DRAWINGS AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE STEEL DECK INSTITUTE. METAL ROOF DECKS SHALL BE FIELD RETOUCHEWED WHERE GALVANIZING COAT HAS BEEN DAMAGED DUE TO PLACING, HANDLING & WELDING. MANUFACTURER SHALL BE A MEMBER OF THE STEEL DECK INSTITUTE. METAL DECK SHALL BE GALVANIZED.
2. ALL DECK SHALL MEET THE REQUIREMENTS OF THE STEEL DECK INSTITUTE. ALL DECK SHALL BE CONTINUOUS OVER THREE OR MORE SPANS AND SHALL CONFORM TO ASTM A511 GRADE C. WHERE A "3 SPAN" CONDITION IS NOT POSSIBLE, PROVIDE A HEAVIER GAUGE METAL DECK THAT GIVES PERFORMANCE EQUAL TO THE METAL DECK SPECIFIED OVER A THREE SPAN CONDITION. ALL SKEW CUTTING SHALL BE DONE IN THE FIELD.
3. METAL DECK SHALL BE ATTACHED TO SUPPORTING MEMBERS INCLUDING PERIMETER SUPPORT STEEL AND/OR BEARING WALLS AS INDICATED ON THE STRUCTURAL AND/OR ARCHITECTURAL DRAWINGS, IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND DECK SETTING PLANS. DECK FASTENING SHALL BE PERFORMED IMMEDIATELY AFTER ALIGNMENT. METAL DECK ANCHORAGE LAYOUT SHALL BE IN A PATTERN AS INDICATED ON THE DRAWINGS. END LAPS SHALL BE TWO INCHES AND SHALL OCCUR OVER A SUPPORT.
4. PUDDLE WELDS SHALL BE 5/8" DIAMETER AND MADE THROUGH WELD WASHERS FOR 24- GAUGE AND THINNER DECKS IN ACCORDANCE WITH AWS D1.3. FUSION SHOULD BE VISIBLE OVER NO LESS THAN THREE QUARTERS OF THE WELD PERIMETER. ALL WELDS SHALL BE MADE WITH AWS E60 ELECTRODES AND METAL AROUND WELDS SHALL BE COMPLETELY INTACT AFTER WELDING. BLOWOUTS WILL NOT BE PERMITTED. PANELS WITH BLOWOUTS EXCEEDING THREE (3%) PERCENT WILL BE REPLACED.
5. METAL DECKS WITH SPANS GREATER THAN FIVE FEET SHALL HAVE SIDE LAP FASTENERS AND PERIMETER EDGES AT PERIMETER SUPPORT STEEL SHALL BE ANCHORED AT THE LEAST SPACING OF: MID-SPAN, 36 INCH (36") INTERVALS OR PER THE METAL DECK FASTENER LAYOUT ON THE DRAWINGS.
6. ALL METAL DECKING SHALL BE PROVIDED WITH A MINIMUM 1/2 GAUGE EDGE ANGLE ATTACHED AND SIZED AS REQUIRED UNLESS OTHERWISE INDICATED ON THE DRAWINGS. LIGHT GAUGE DECK ANGLES AS NOTED IN THE STRUCTURAL STEEL SECTION MAY BE SUBSTITUTED FOR THE BENT PLATE OR ANGLE IF ADEQUATE CAPACITY CAN BE SHOWN AND VERIFIED BY THE CONTRACTORS ENGINEER IF A STEEL ANGLE OR BENT PLATE IS NOT SHOWN ON THE DRAWINGS. VALLEY AND RIDGE FLASHING SHALL BE PROVIDED AND INSTALLED AS REQUIRED FOR THE CALCULATED WIND LOADING.

PRE-ENGINEERED BUILDING:

1. THE BUILDING SHALL BE A MANUFACTURER'S STANDARD PREFABRICATED METAL STRUCTURE. RIGID FRAMES, PORTAL FRAMES, AND BRACING SHALL BE LOCATED AS SHOWN ON THE DRAWINGS, OR IF NOT LOCATED, COORDINATE W/ ARCHITECTURAL. METAL BUILDING MANUFACTURER SHALL COORDINATE LOCATION OF ALL BUILDING COMPONENTS TO MINIMIZE INTERFERENCE WITH ARCHITECTURAL FEATURES, MECHANICAL EQUIPMENT, AND DUCTS.
 2. THE BUILDING SHALL BE DESIGNED AND FABRICATED ACCORDING TO THE LATEST AISC AND AISI SPECIFICATIONS, THE STANDARD BUILDING CODE, MBMA'S "LOW RISE BUILDING SYSTEMS MANUAL", AND THE CONTRACT SPECIFICATIONS.
 3. THE BUILDING MANUFACTURER SHALL SUBMIT FOR APPROVAL A COMPLETE DESIGN ANALYSIS SHOWING ALL CALCULATIONS FOR RIGID FRAMES, GIRTS, AND PURLINS, AND A LAYOUT OF ANCHOR BOLTS AND OTHER EMBEDDED ITEMS WITH THE SHOP DRAWINGS. SHOP DRAWINGS SHALL INCLUDE DETAILS OF THE MAIN MEMBERS, TYPICAL CONNECTIONS (SHOWING BOLT HOLES AND WELDS), AND ERECTION DRAWINGS. THE CALCULATIONS MAY INCLUDE A COMPUTER PRINTOUT, BUT SUFFICIENT HANDWRITTEN NOTATION WILL BE REQUIRED SO THAT AN ENGINEER NOT FAMILIAR WITH THE COMPUTER PROGRAM CAN EASILY FOLLOW THE DESIGN CALCULATIONS.
 4. DESIGN REQUIREMENTS:
 - A. STRUCTURAL MEMBERS SHALL WITHSTAND ALL BUILDING SYSTEM DEAD LOADS PLUS HANGING STRUCTURE, EQUIPMENT, ETC.. ROOF LIVE LOAD OF 20 PSF (MINIMUM) WITH TRIBUTARY AREA LOAD REDUCTION WHERE APPLICABLE. COLLATERAL LOAD OF 7 PSF (MINIMUM), WIND LOAD OF 130 MPH, SEISMIC ACCELERATION OF A(v) = 0.06 AND A(s) = 0.05 AND SEISMIC HAZARD CATEGORY B.
 - B. DEFLECTIONS SHALL BE LIMITED AS FOLLOWS:

PRIMARY FRAMING	L/240 FOR ROOF DEAD + LIVE LOAD (1" MAXIMUM) H/400 FOR LATERAL LOADS (1/2" MAXIMUM)
SECONDARY FRAMING	L/240 FOR ROOF DEAD + LIVE LOAD
- WHERE L IS THE SPAN OF THE ELEMENT BETWEEN SUPPORT POINTS, AND H IS THE EAVE HEIGHT OF THE BUILDING.

COMPONENTS AND CLADDING PRESSURES (PSF) PER IBC 2012											
EWA (FT)	ZONE	OVERHANG		1	2	3	4	5	5		
		ZONE 2	ZONE 3								
<10		21	-55	21	-78	21	-120	51	-55	51	-68
20		20	-55	20	-73	20	-114	50	-55	50	-66
50		18	-55	18	-73	18	-93	46	-51	46	-59
100		17	-55	18	-73	18	-80	44	-48	44	-54
200		17	-55	18	-73	18	-80	42	-46	42	-50
>500		17	-55	18	-73	18	-80	40	-44	40	-44

NOTES:
 1.) EWA IS THE EFFECTIVE WIND AREA OF A STRUCTURAL COMPONENT.
 2.) FOR ZONE DEFINITIONS, SEE ASCE 7 FIGURES 6-3.
 3.) PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE SURFACES, RESPECTIVELY.
 4.) REFER TO ARCHITECTURAL DOCUMENTS FOR FACTORY MUTUAL RATED SYSTEM REQUIREMENTS. (IF INDICATED)

Perez.

ARCHITECTURE
 ENGINEERING
 PLANNING
 INTERIORS
 LANDSCAPE
 GRAPHICS

PEREZ
 A PROFESSIONAL CORPORATION
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CIVIL & STRUCTURAL CONSULTING/DESIGN SERVICES



Phone: 504.552.4441 Fax: 504.552.4442



St Bernard Parish Sheriff's Substation #47
 SQUARE 327 PARIS RD

DATE: 04/11/14
 PROJECT NO.: 01-09-1082-02

REVISIONS:

No.	Date	Description

DRAWN BY: Author
 CHECKED BY: Checker

SHEET TITLE

GENERAL NOTES

SHEET NO

S1.0

St Bernard Parish Sheriff's Substation #47
SQUARE 327 PARIS RD

DATE: 04/11/14
PROJECT NO.: 01-09-1082-02

REVISIONS:

No.	Date	Description

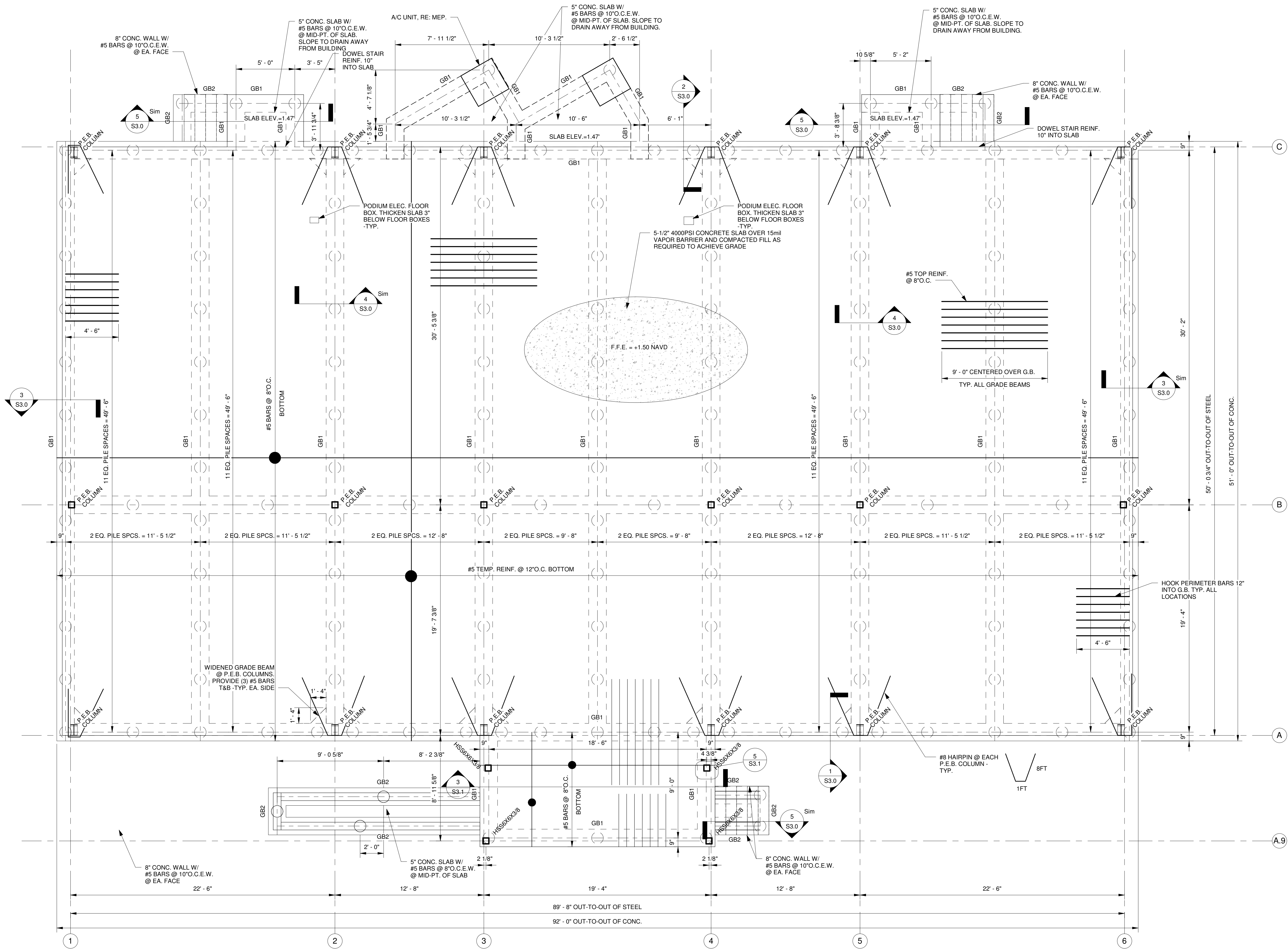
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CHECKED BY: Checker

SHEET TITLE

FOUNDATION PLAN

SHEET NO

S2.0



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

GRADE BEAM SCHEDULE

MARK	W	D	REINFORCING
GB1	18"	24"	(3) #6 BARS T&B W/ #3 STIRRUPS @ 12" O.C.
GB2	18"	12"	(3) #6 BARS T&B W/ #3 STIRRUPS @ 8" O.C.

LEGEND:

6/8 TREATED TIMBER PILE	L=40 FT	DESIGN CAPACITY=7 TONS	(TIP EL. = -34.66 NAVD)
M.B.M.	METAL BUILDING MANUFACTURER		
P.E.B.	PRE-ENGINEERED BUILDING		

NOTE:
COORDINATE BATHROOM DEPRESSIONS W/
ARCHITECTURAL. DEPRESSIONS NOT SHOWN.

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St Bernard Parish Sheriff's Substation #47
SQUARE 327 PARIS RD

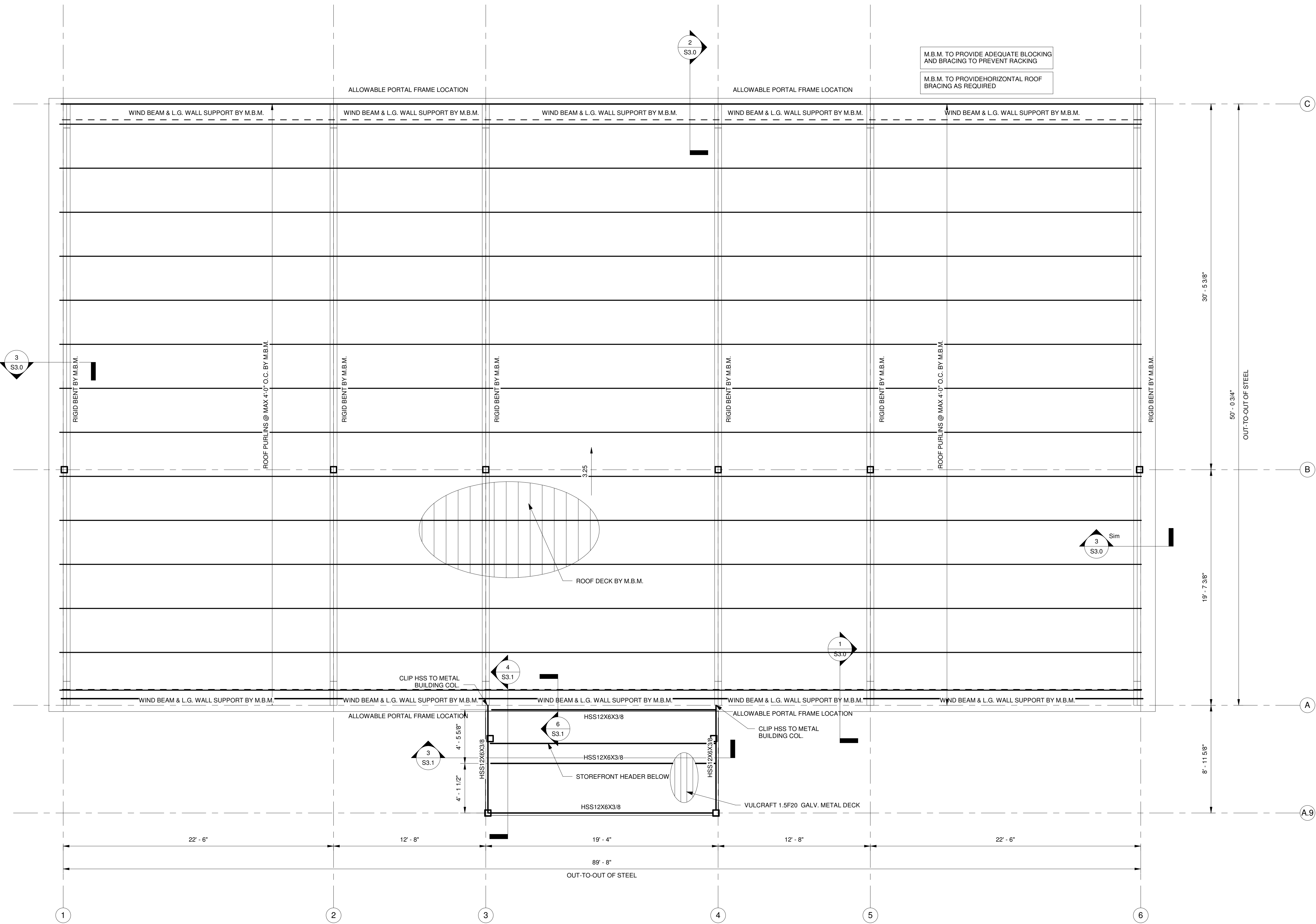
DATE: 04/11/14
PROJECT NO.: 01-09-1082-02

REVISIONS:

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SHEET TITLE

ROOF PLAN
SHEET NO
S2.1



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



St Bernard Parish Sheriff's Substation #47
SQUARE 327 PARIS RD

DATE: 04/11/14
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REVISIONS:		
No.	Date	Description

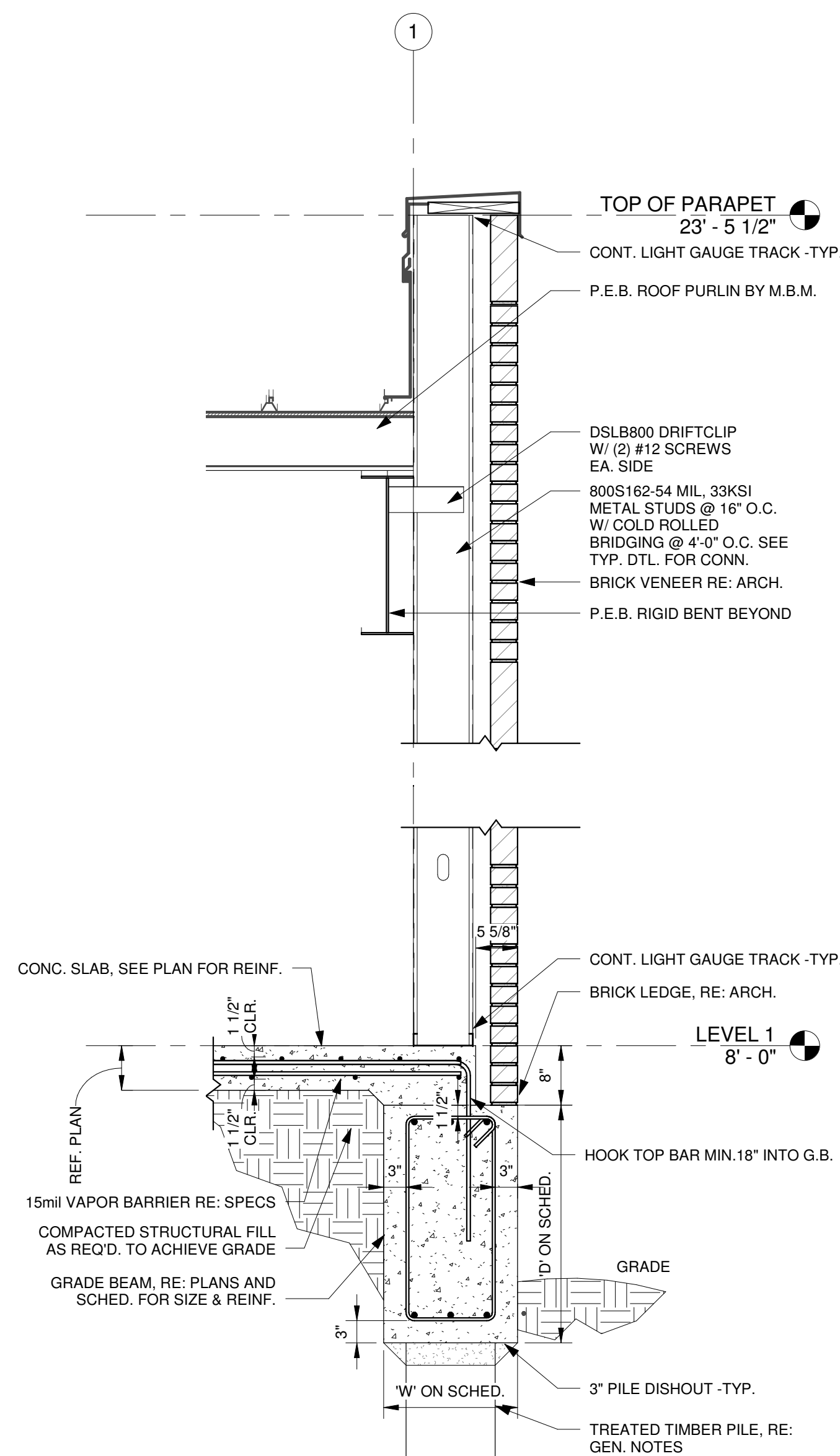
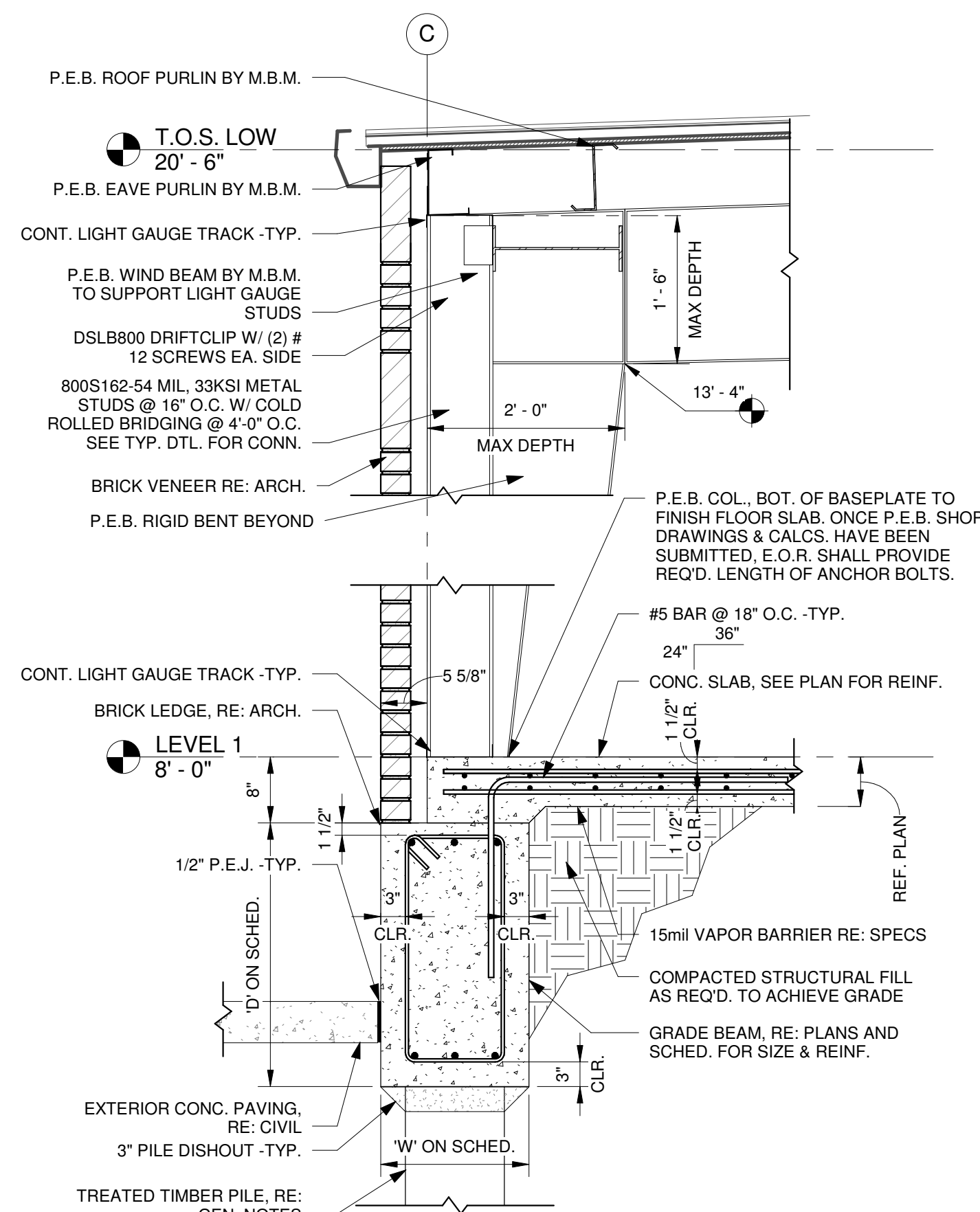
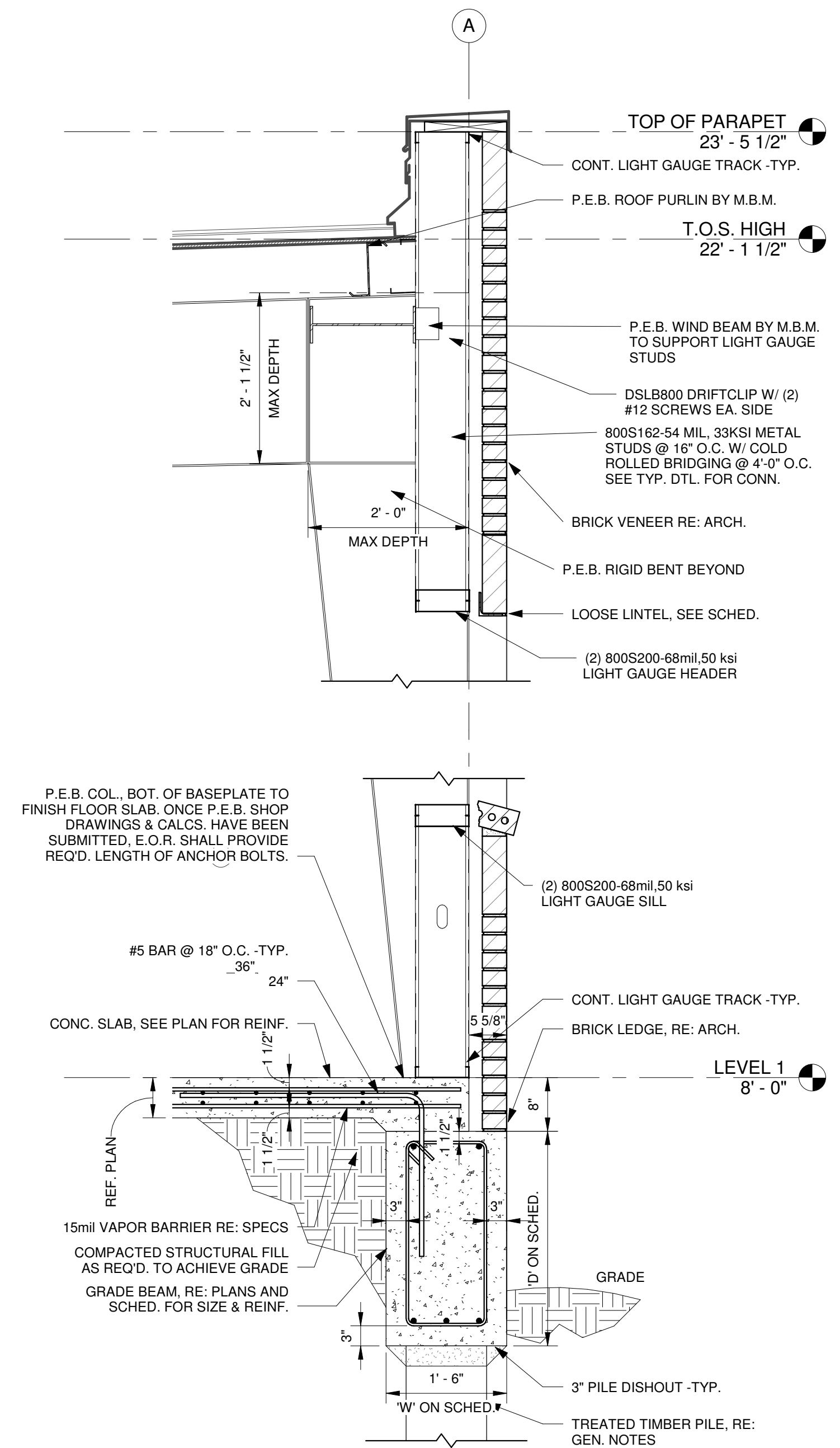
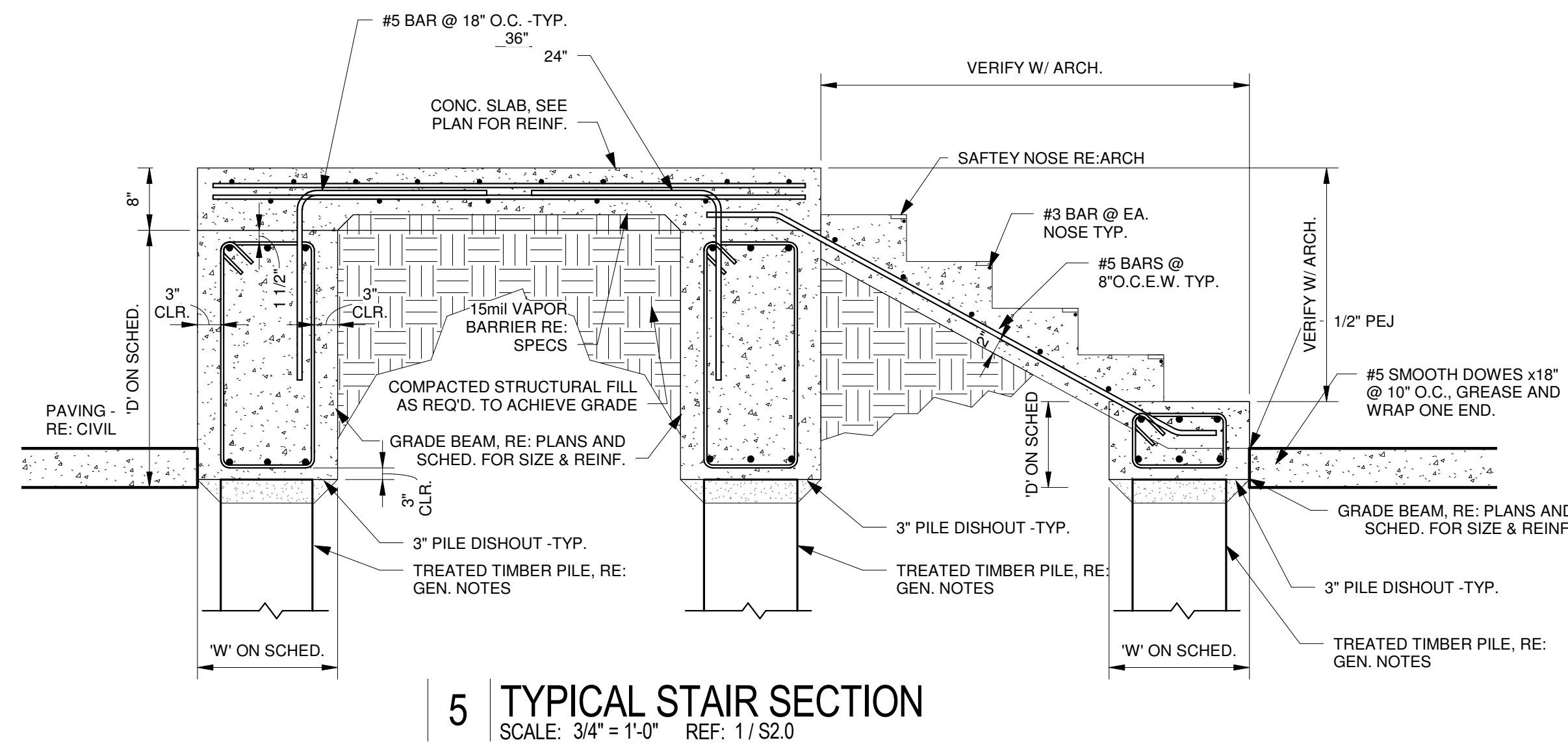
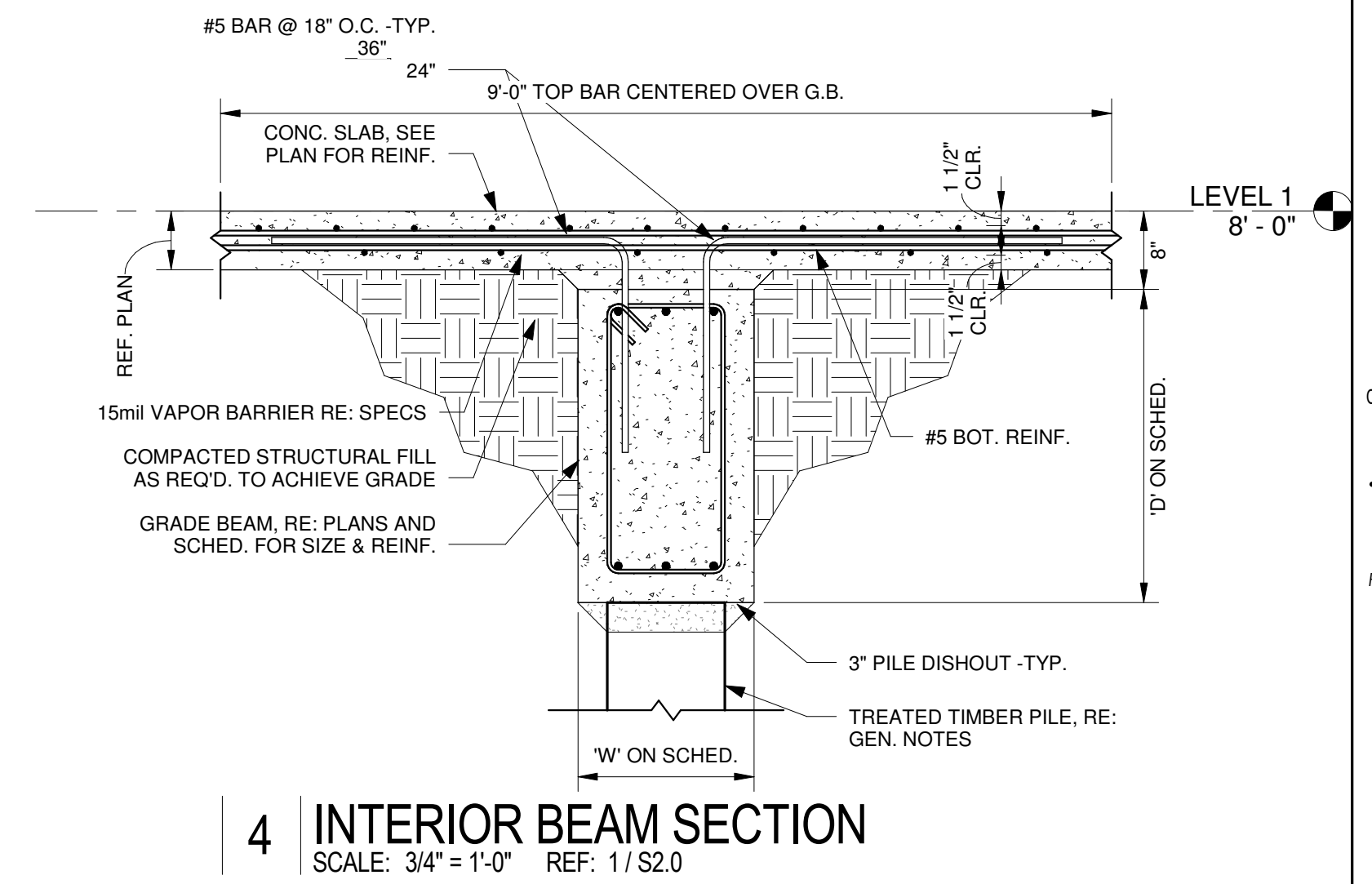
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SHEET TITLE

FOUNDATION & WALL SECTIONS

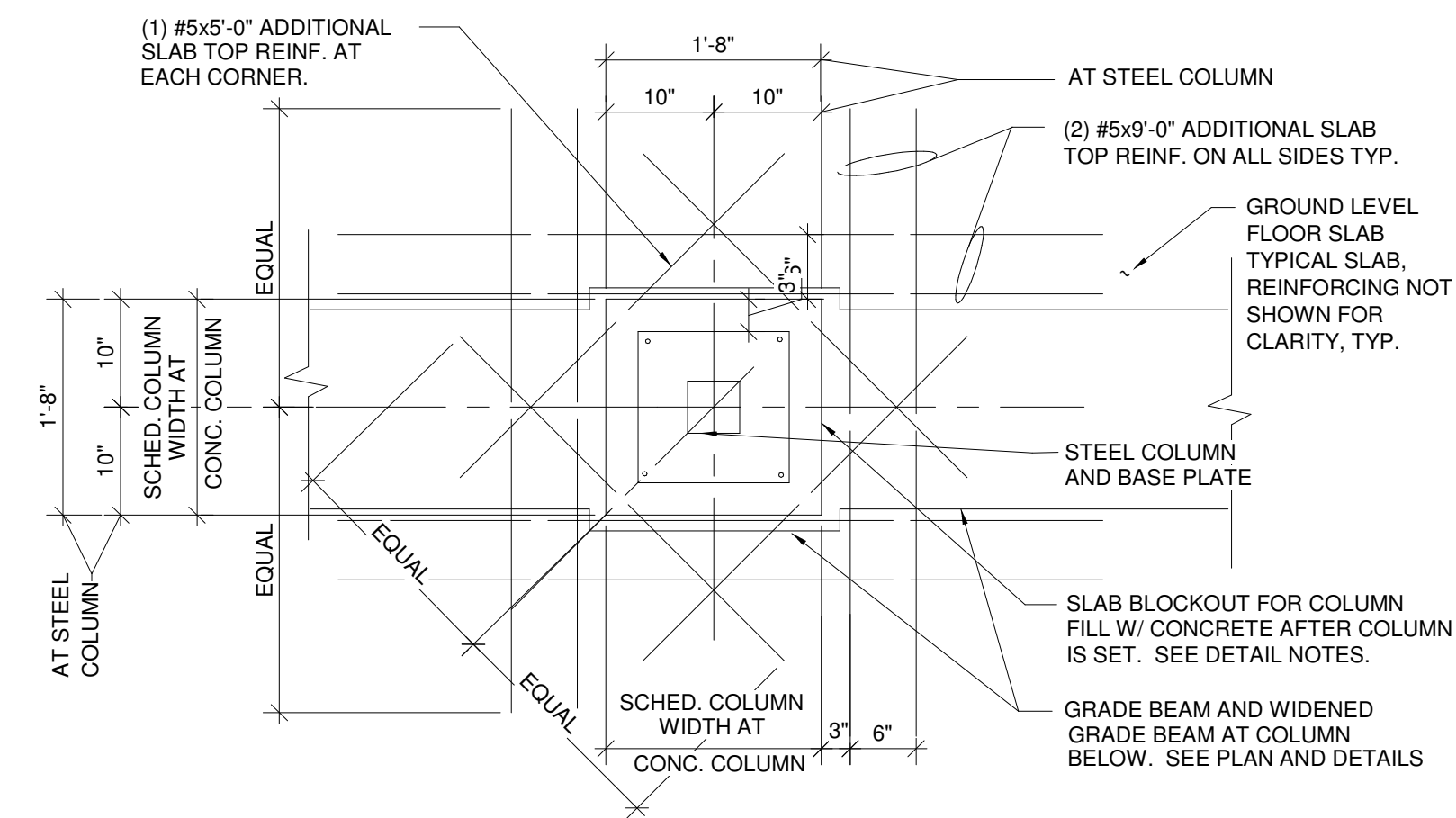
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S3.0

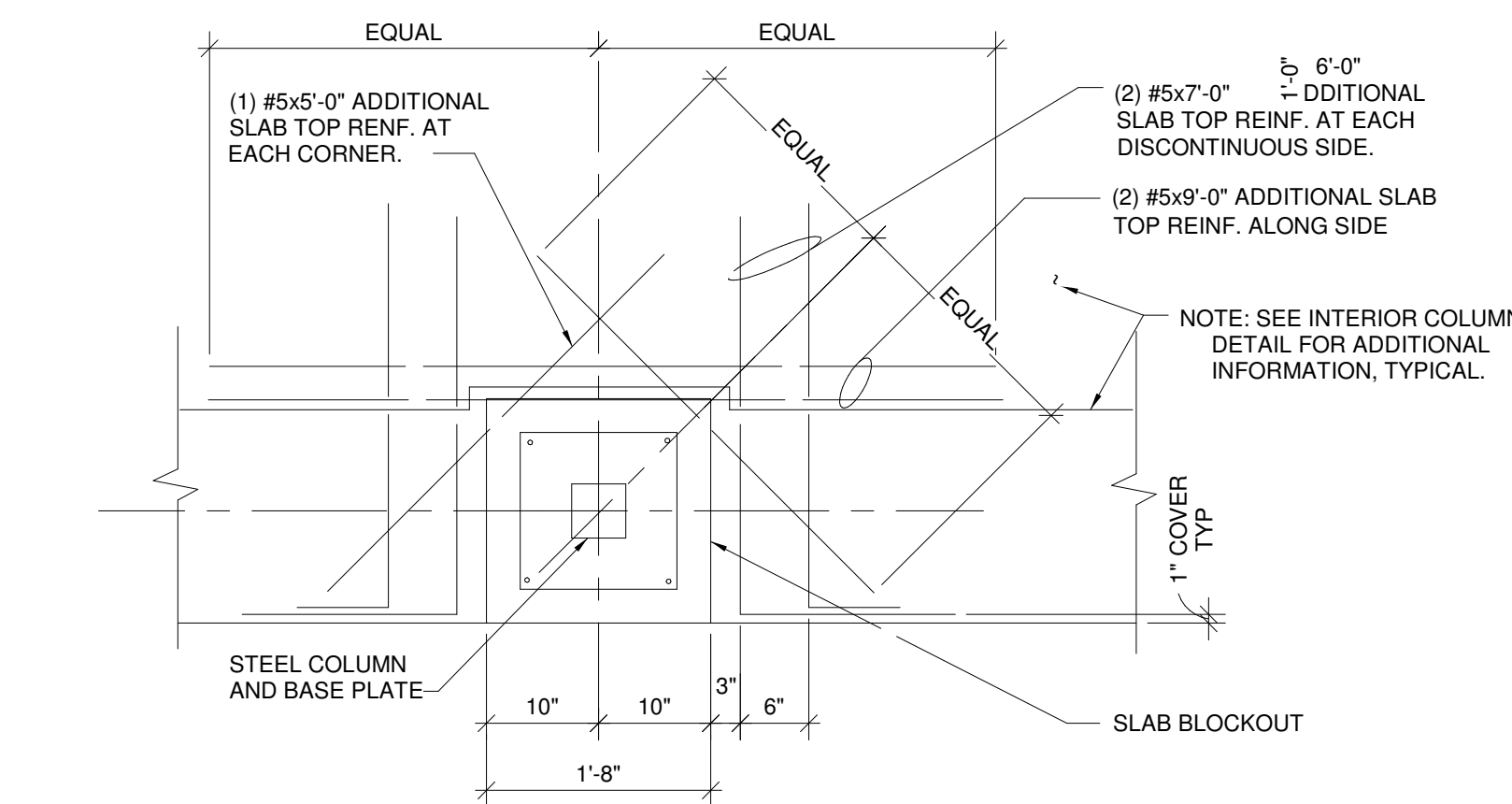


REVISIONS:

No.	Date	Description



INTERIOR COLUMN



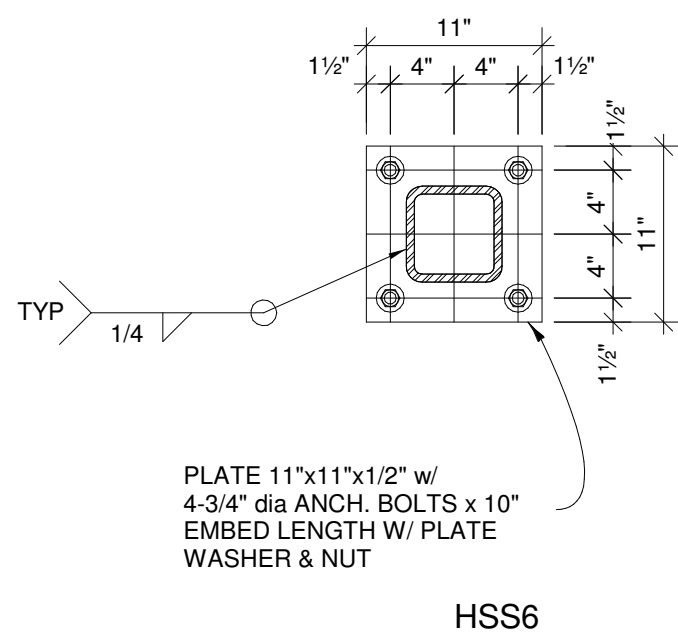
PERIMETER COLUMN

CORNER COLUMN SIMILAR

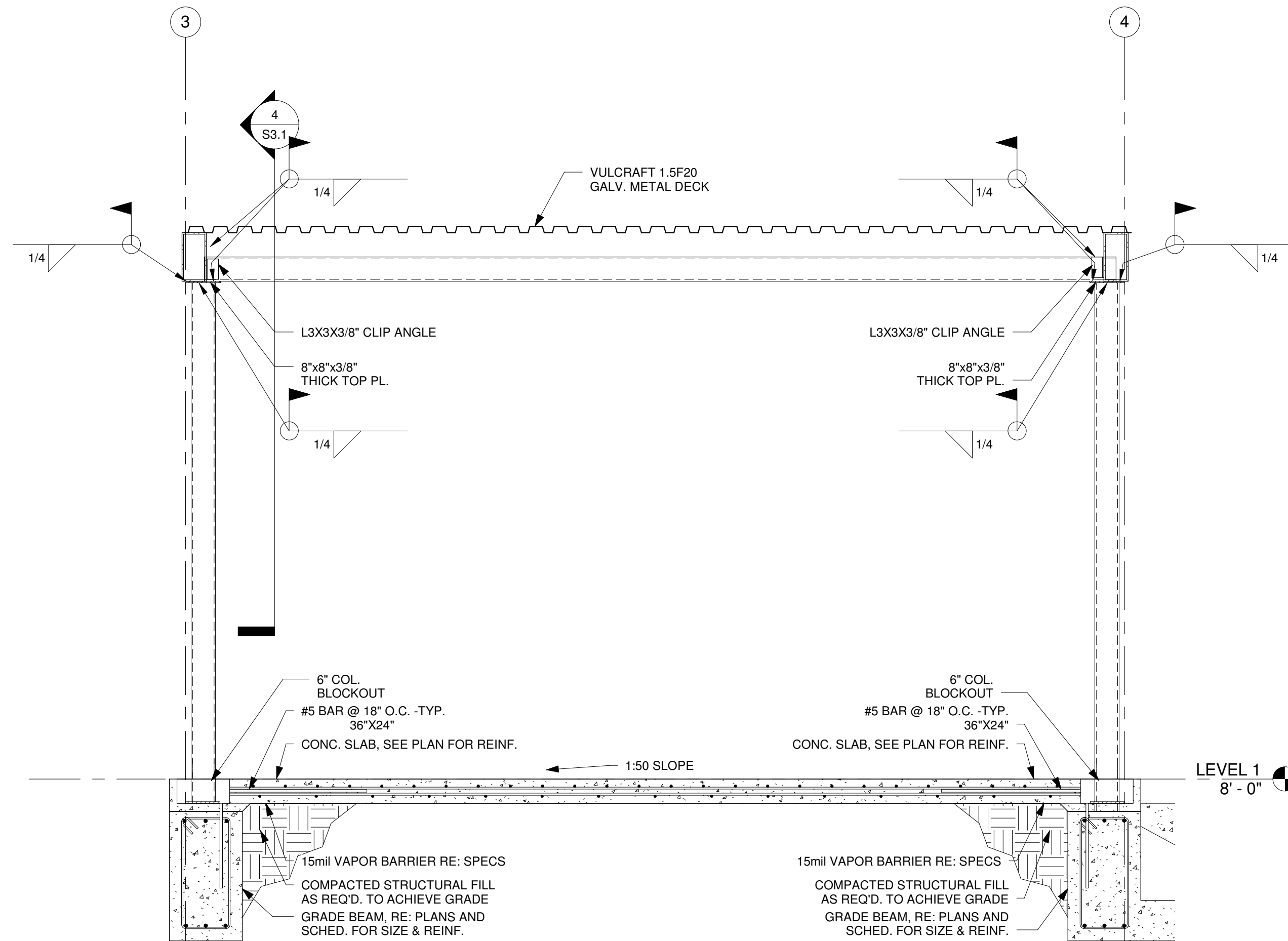
DETAIL NOTES

- THIS DETAIL IS TO BE USED ONLY IF THE GROUND LEVEL FLOOR SLAB IS TO BE POURED BEFORE THE STEEL COLUMNS ARE ERECTED OR IF THE CONCRETE COLUMNS ARE POURED BEFORE THE FLOOR SLAB IS POURED.
- IF THIS DETAIL IS USED, THEN ALL THE SLAB REINFORCING BARS, INTERRUPTED BY THE SLAB BLOCKOUT, AND BE PROVIDED WITH A STANDARD 90° HOOK.
- LENGTH OF BLOCKOUT PARALLEL TO GRADE BEAM MAY NEED TO BE ENLARGED TO ACCOMMODATE BASE PLATE, GUSSET PLATE AND DIAGONAL BRACING WHEN COLUMN IS PART OF A BRACED FRAME. REFER TO PLAN FOR BRACED FRAME BASE DETAILS.

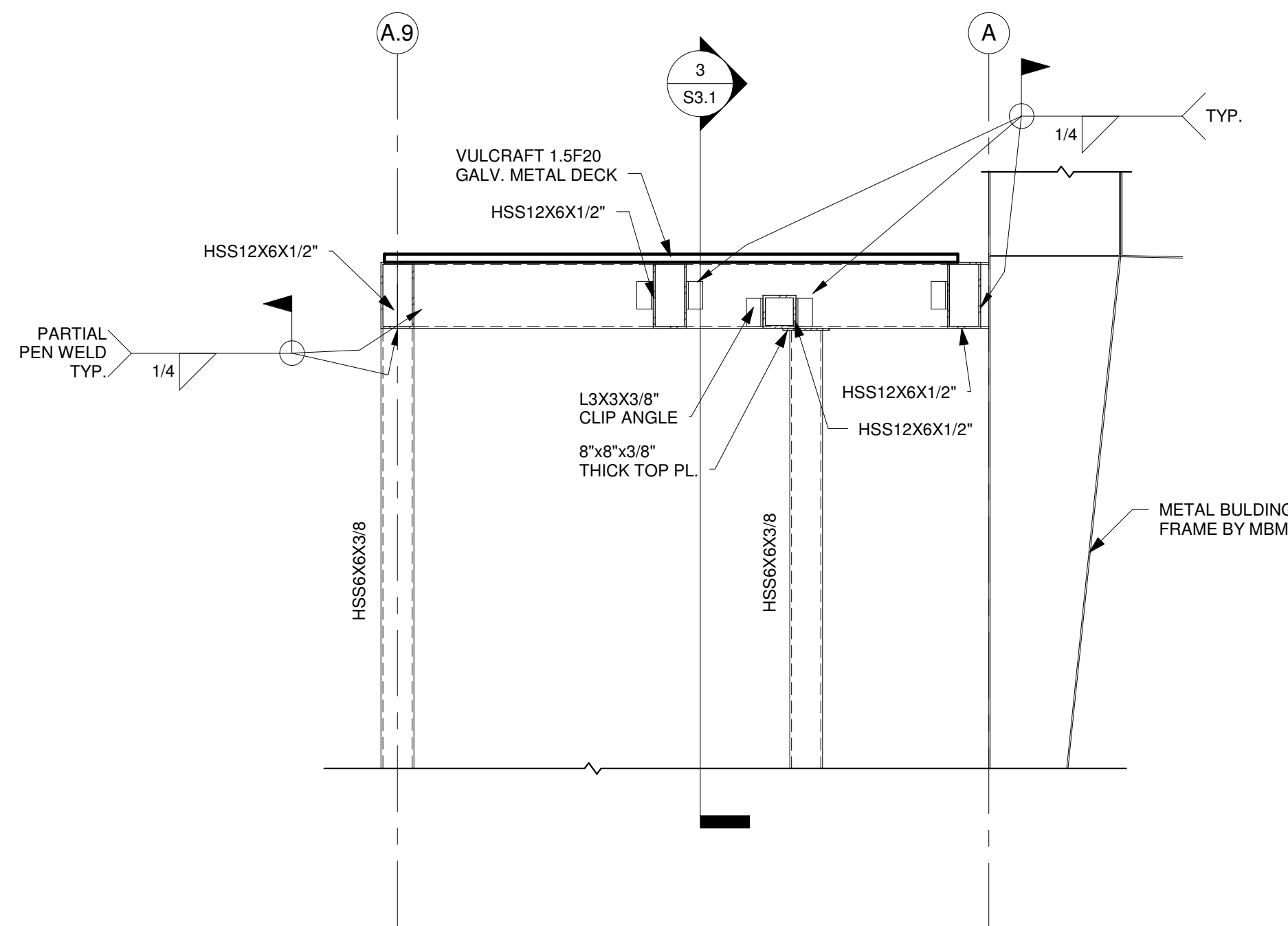
1 Blockout Reinforcement
SCALE: 3/4" = 1'-0"



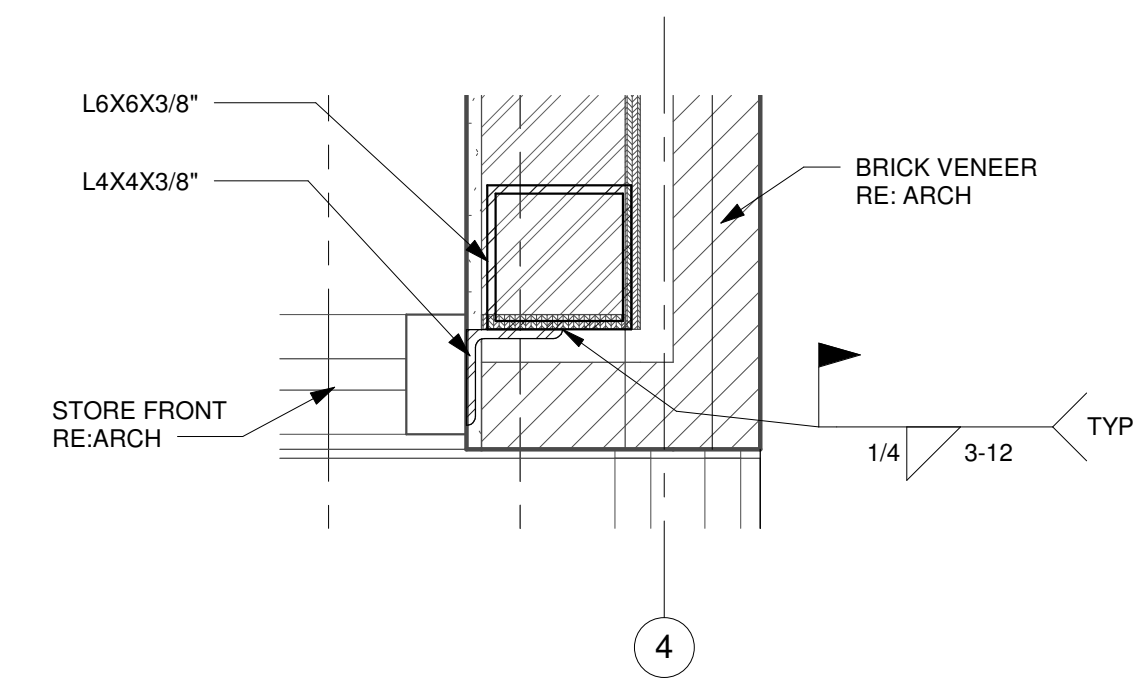
2 Base Plate Detail
SCALE: 1" = 1'-0"



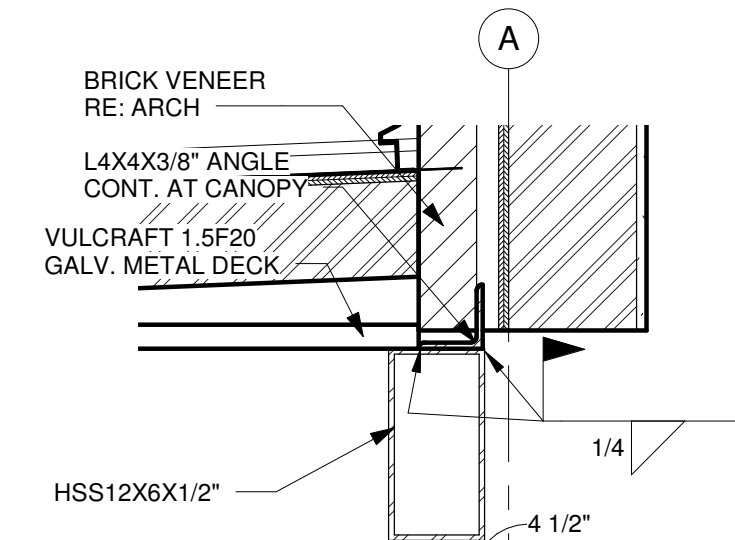
3 Canopy Section
SCALE: 1/2" = 1'-0"



4 CANOPY SECTION
SCALE: 1/2" = 1'-0"



5 STORE FRONT CONNECTION
SCALE: 1 1/2" = 1'-0"



6 SECTION @ CANOPY
SCALE: 1" = 1'-0"



St Bernard Parish Sheriff's Substation #47
SQUARE 327 PARIS RD

DATE: 04/11/14
PROJECT NO.: 01-09-1082-02

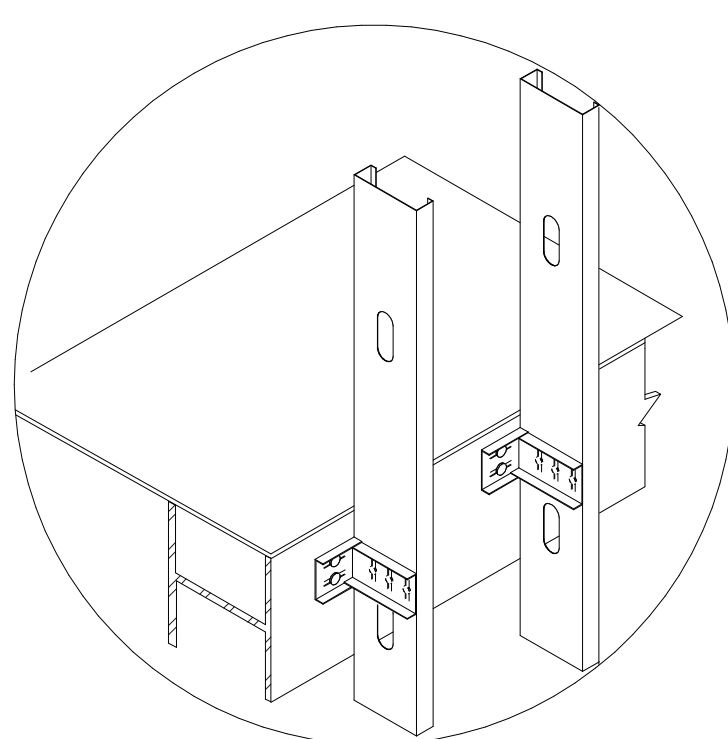
REVISIONS:		
No.	Date	Description

DRAWN BY: _____ Author
CHECKED BY: _____ Checker

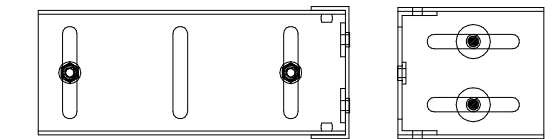
SHEET TITLE
EXTERIOR WALL DETAILS

SHEET NO
S3.2

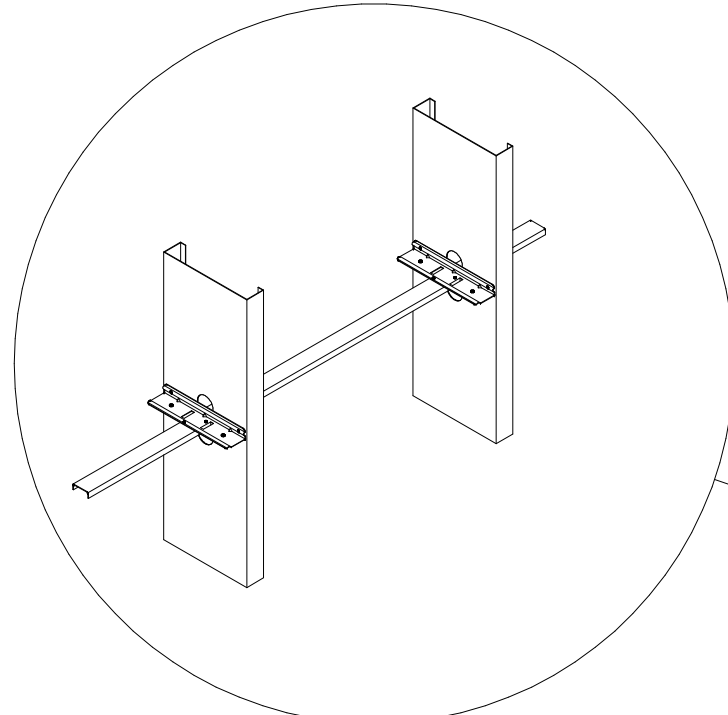
WALL STUD		
Section	800S162-54mil, 33 ksi	



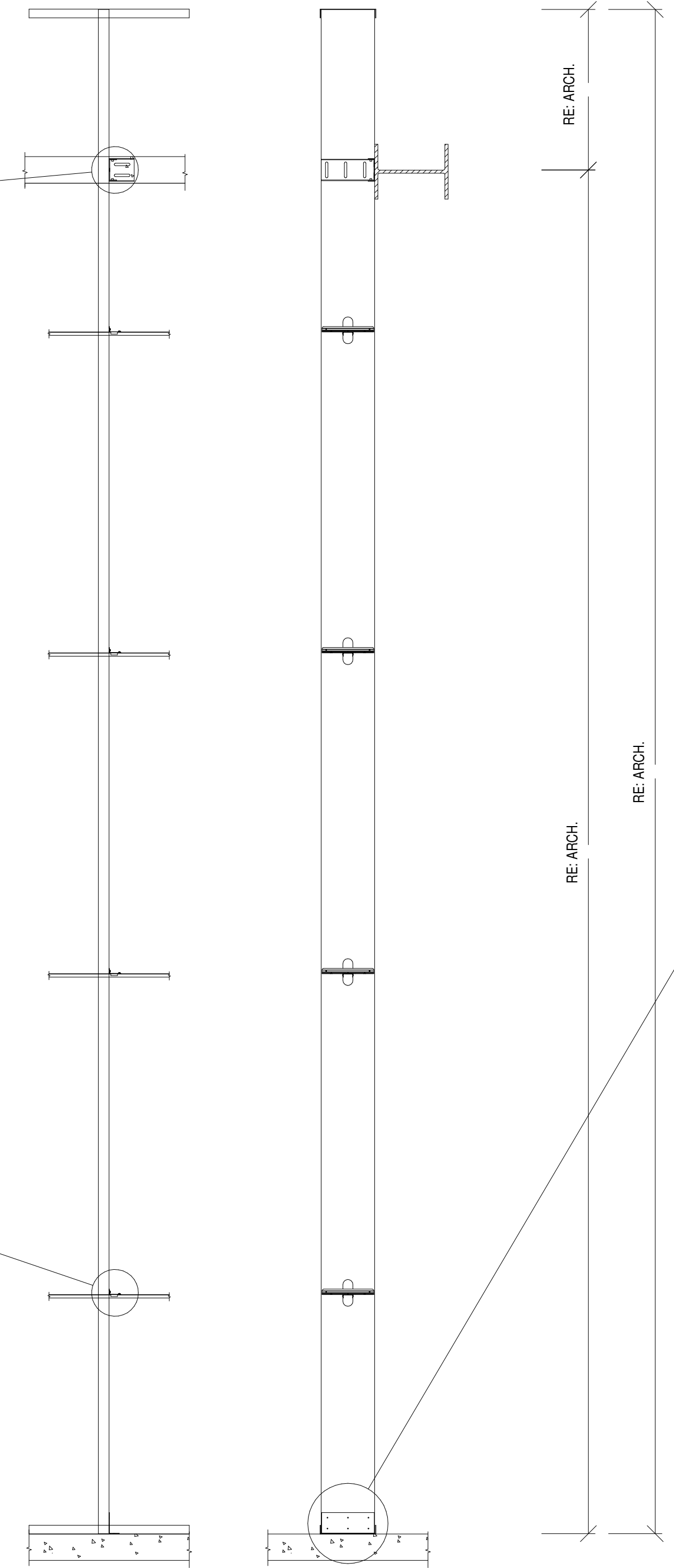
DriftClip DSLB800
Screws: 2 (#12)
Screw Pattern: Fastener Pattern:



Fasteners:
Designation: X-U, 0.157"
Quantity: 2
Embedment: 0.188"
Min. Edge Distance for Shear: 0.250"
& for Tension: 0.250"
Min. Fastener Spacing for Shear: 1.000"
& for Tension: 1.000"

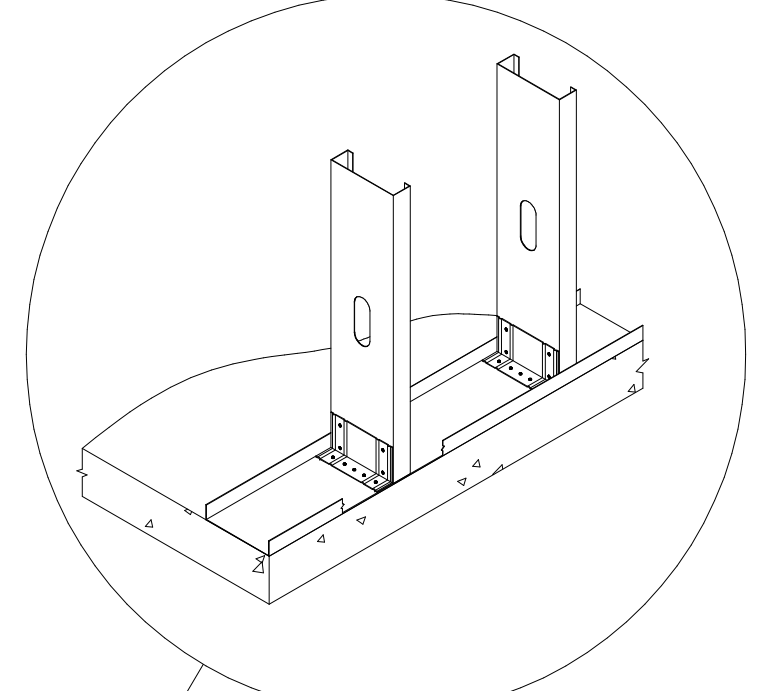


Bridging Member:
Cold-Rolled Channel
Bridging Clip:
BC 800

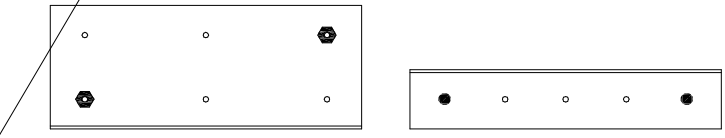


1 EXTERIOR WALL FRAMING
SCALE: 3/4" = 1'-0"

NOTE: FOR INTERIOR WALL FRAMING REFERENCE SPECIFICATION SECTION 054000 COLD FORMED METAL FRAMING



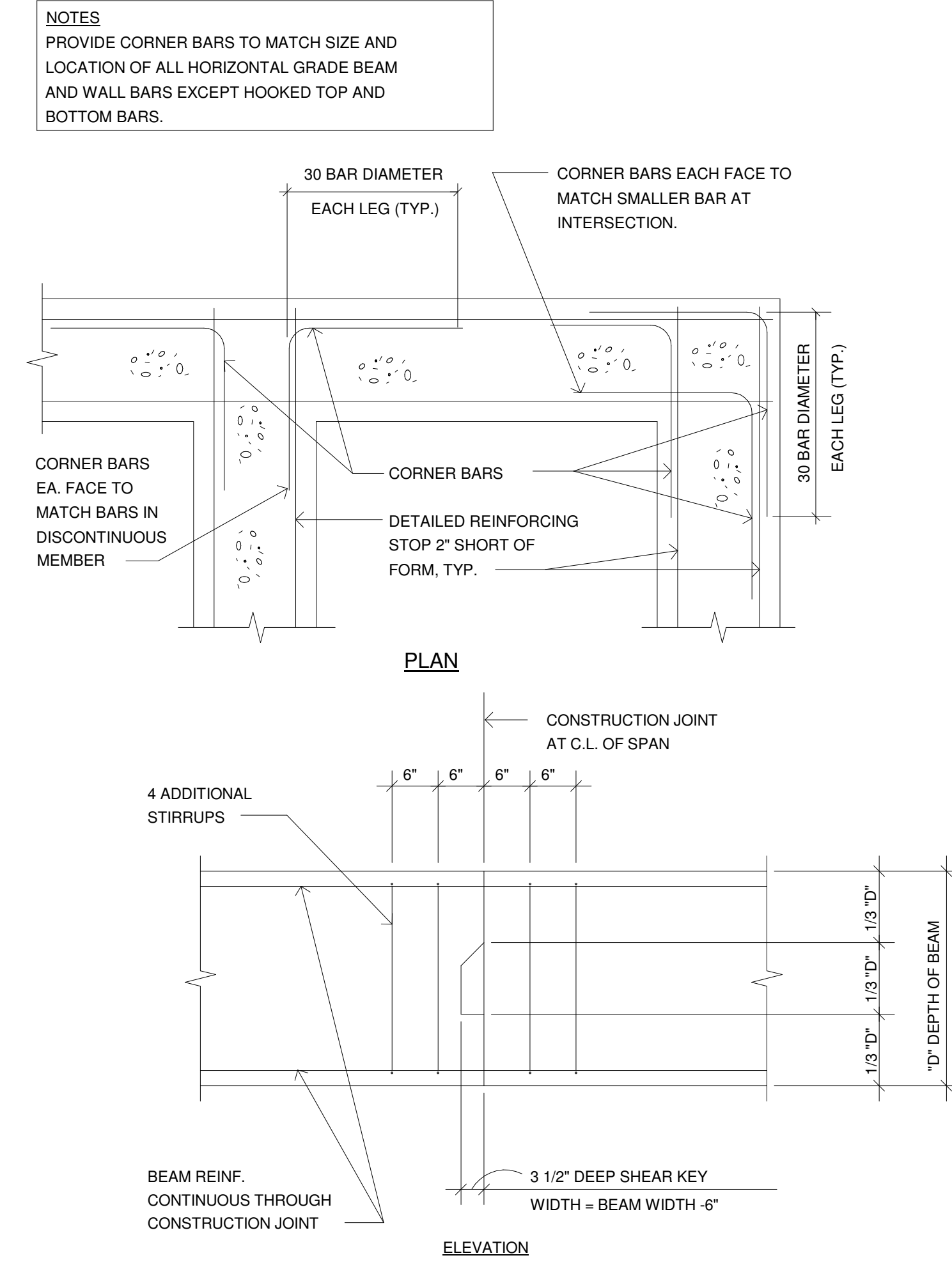
StiffClip AL800
Screws: 2 (#12)
Screw Pattern: Fastener Pattern:



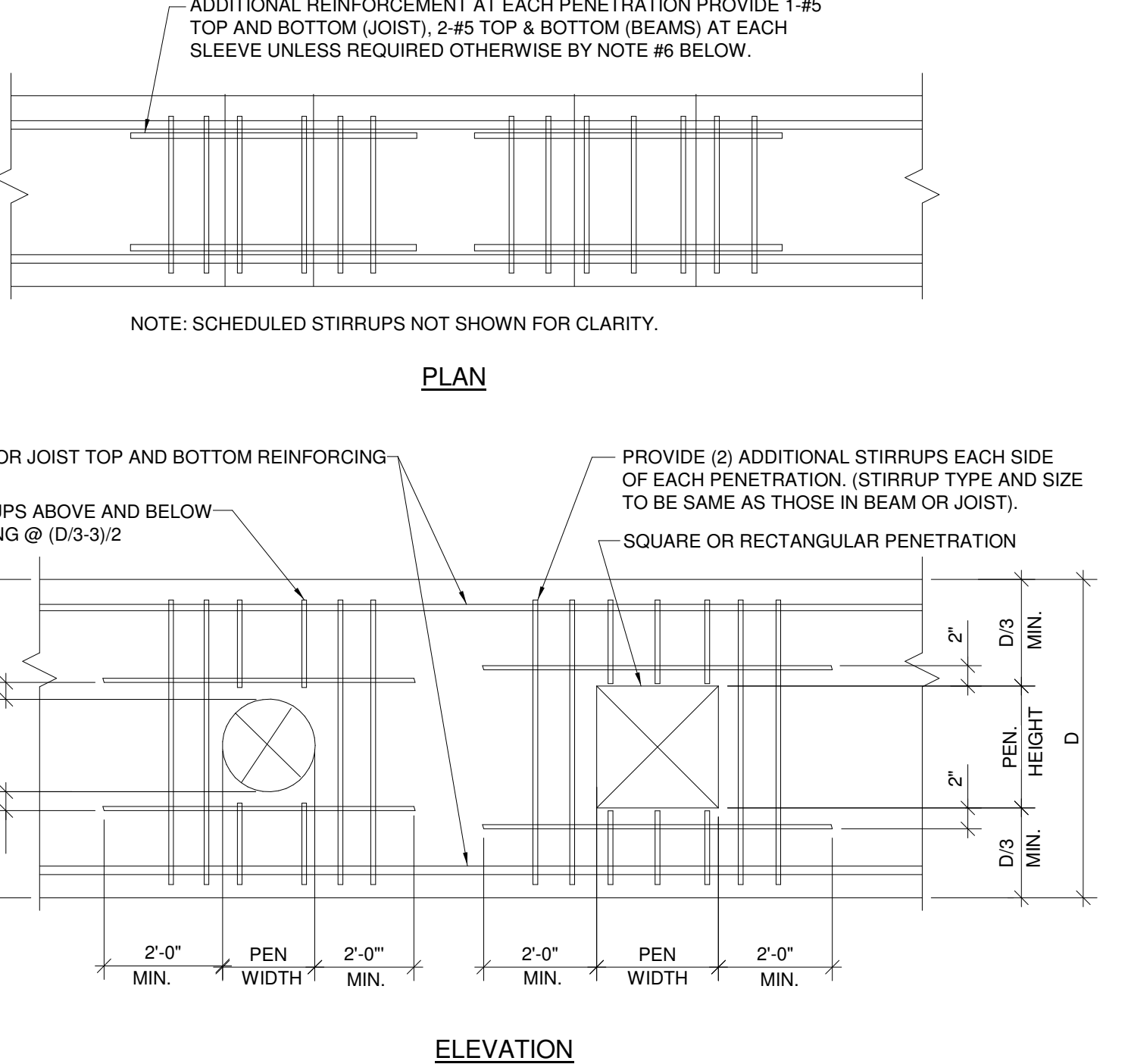
Fasteners:
Designation: X-U, 0.157"
Quantity: 2
Embedment: 1.000"
Min. Edge Distance for Shear: 2.750"
& for Tension: 2.750"
Min. Fastener Spacing for Shear: 2.750"
& for Tension: 2.750"

BASIS OF DESIGN IS THE STEEL NETWORK.
CONTRACTOR REQUESTED SUBSTITUTIONS MUST BE
SUBMITTED DURING BIDDING FOR APPROVAL.

REVISIONS:		
No.	Date	Description

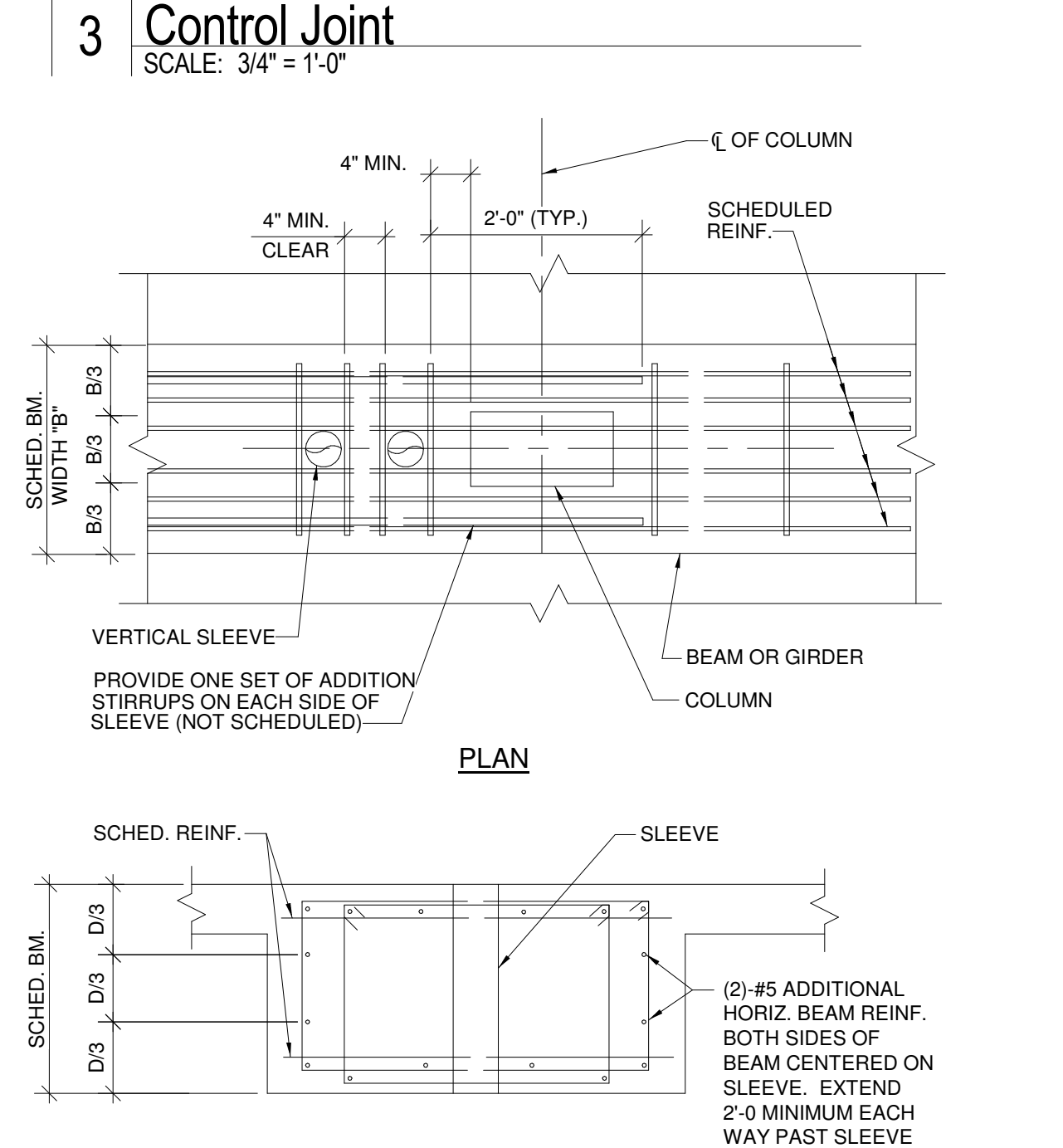
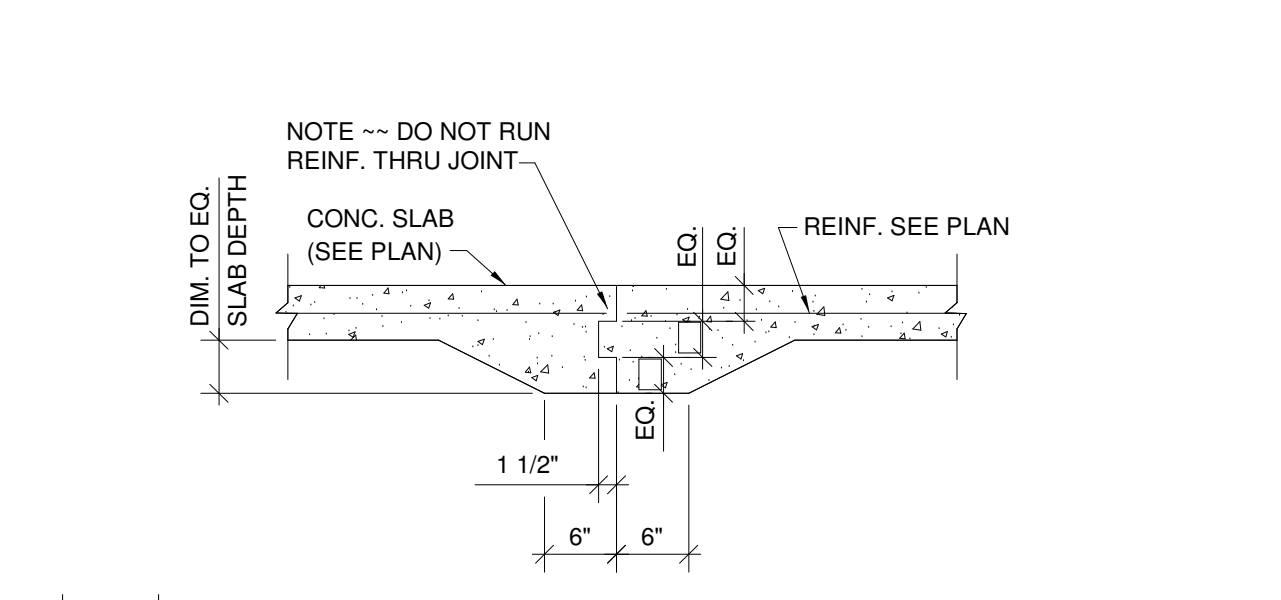


4 Grade Beam Reinforcement at Intersection
SCALE: 3/4" = 1'-0"

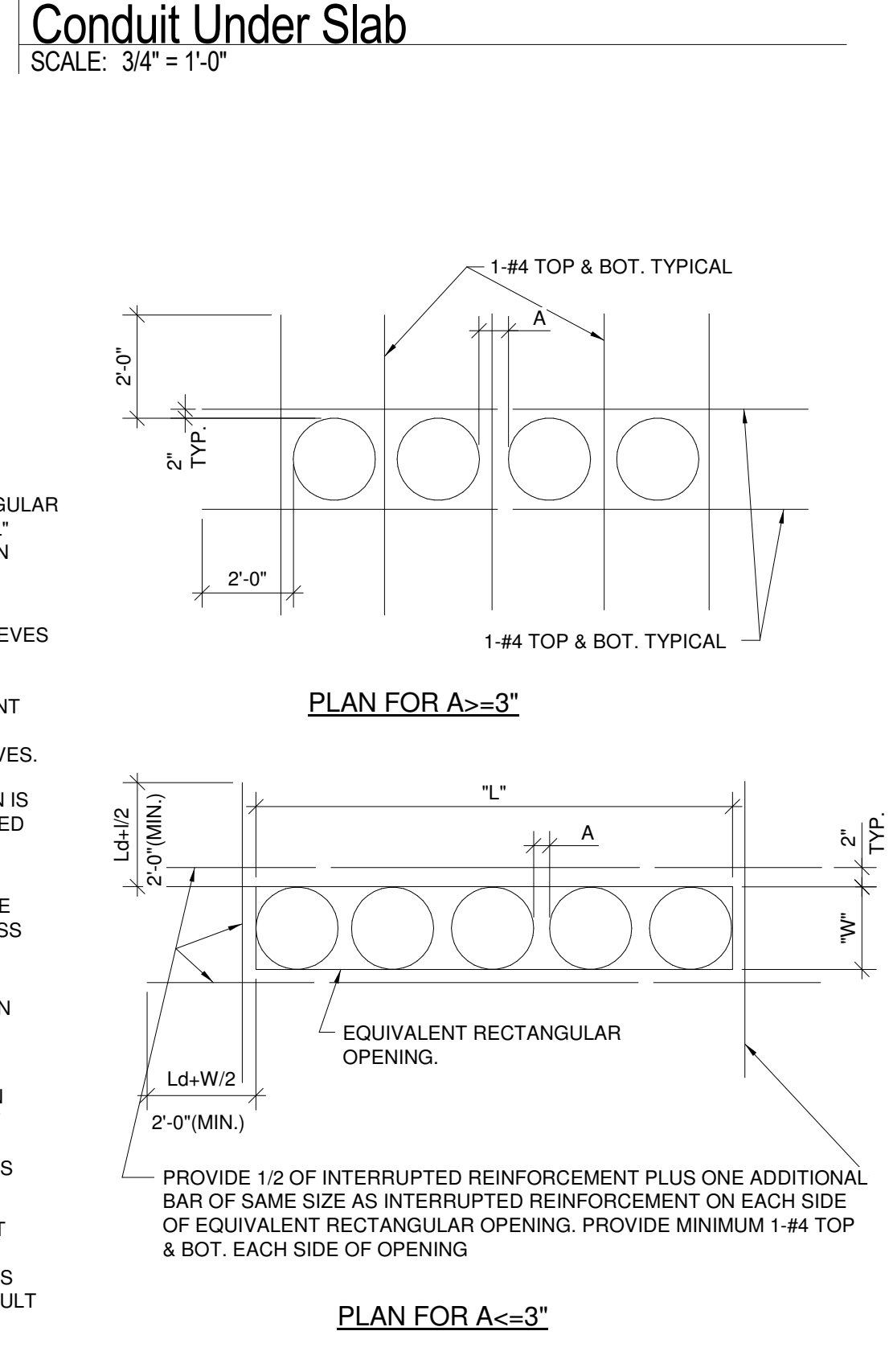
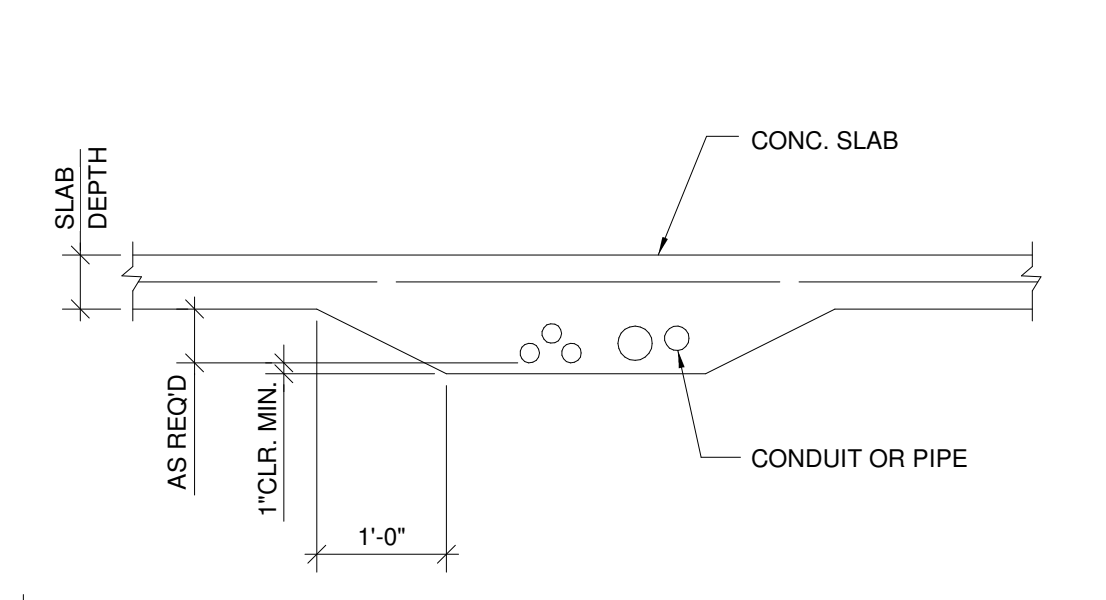


7 Vertical Penetration Through a Grade Beam
SCALE: 3/4" = 1'-0"

8 Horizontal Penetration Through a Grade Beam
SCALE: 3/4" = 1'-0"

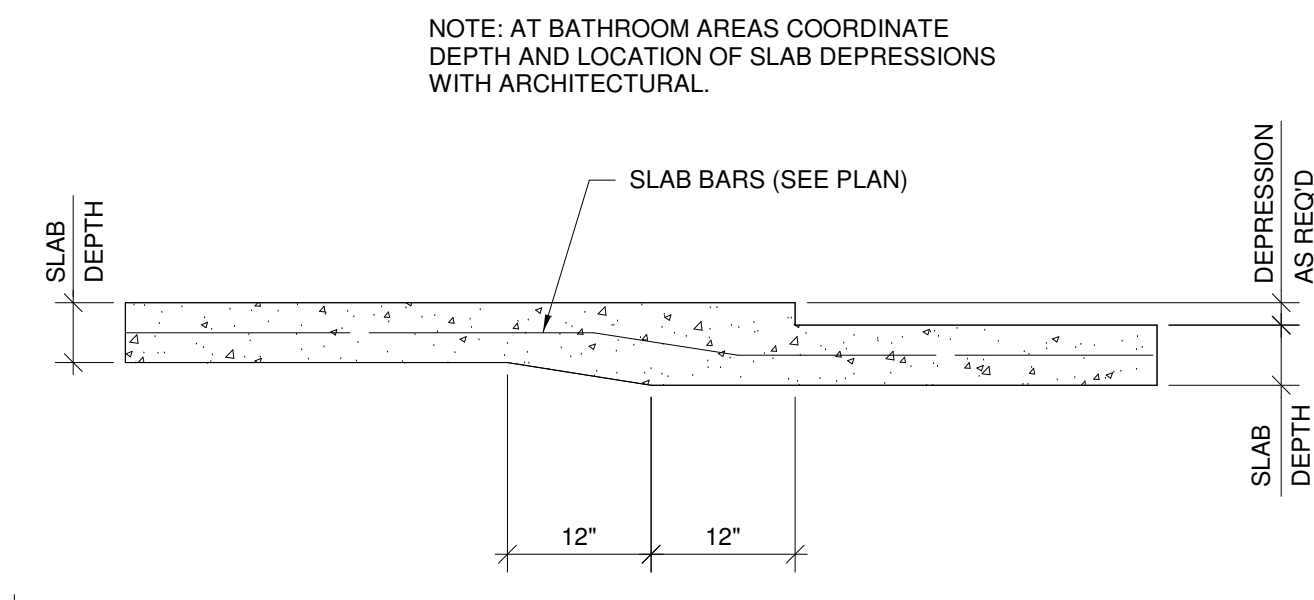


3 Control Joint
SCALE: 3/4" = 1'-0"

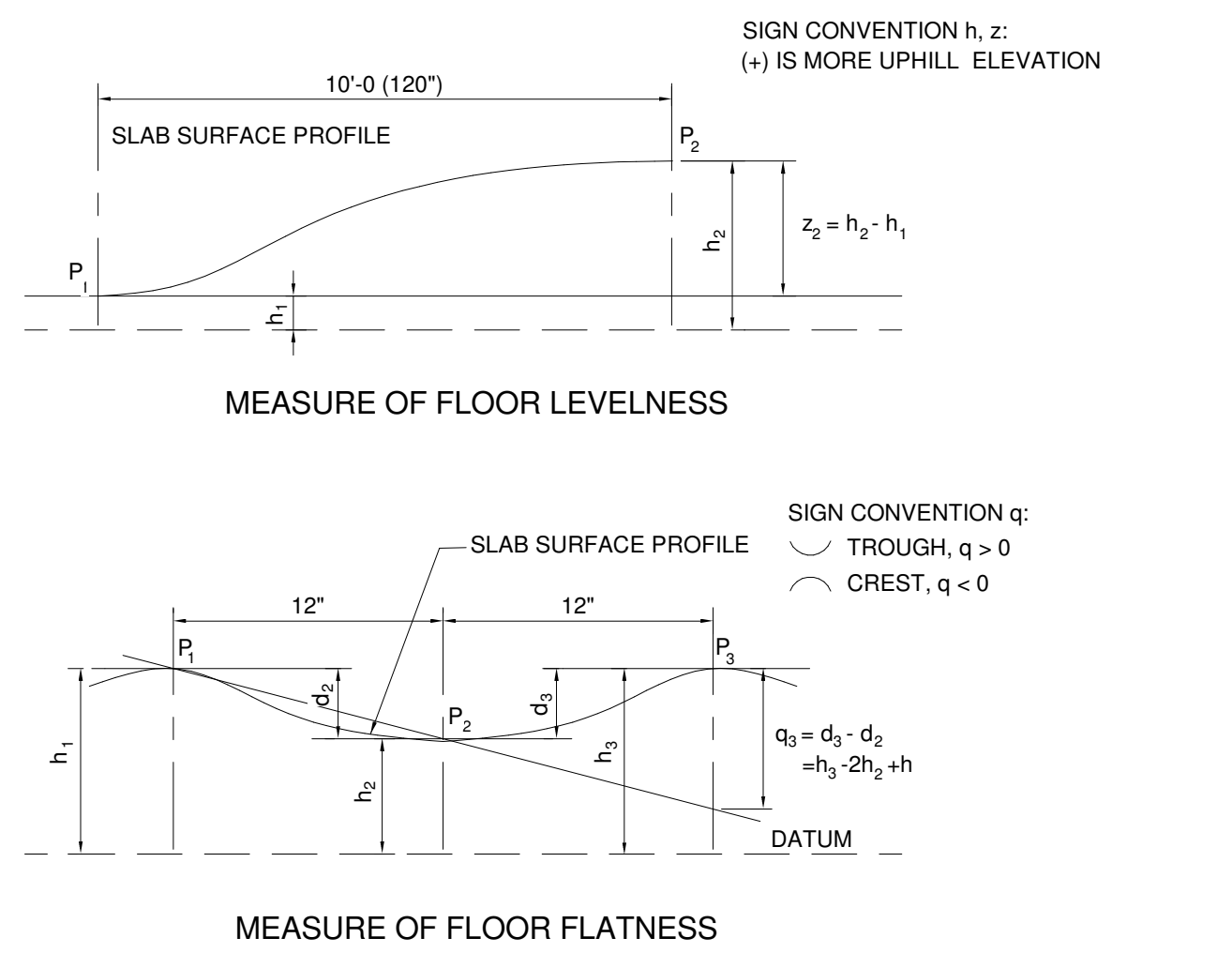


2 Conduit Under Slab
SCALE: 3/4" = 1'-0"

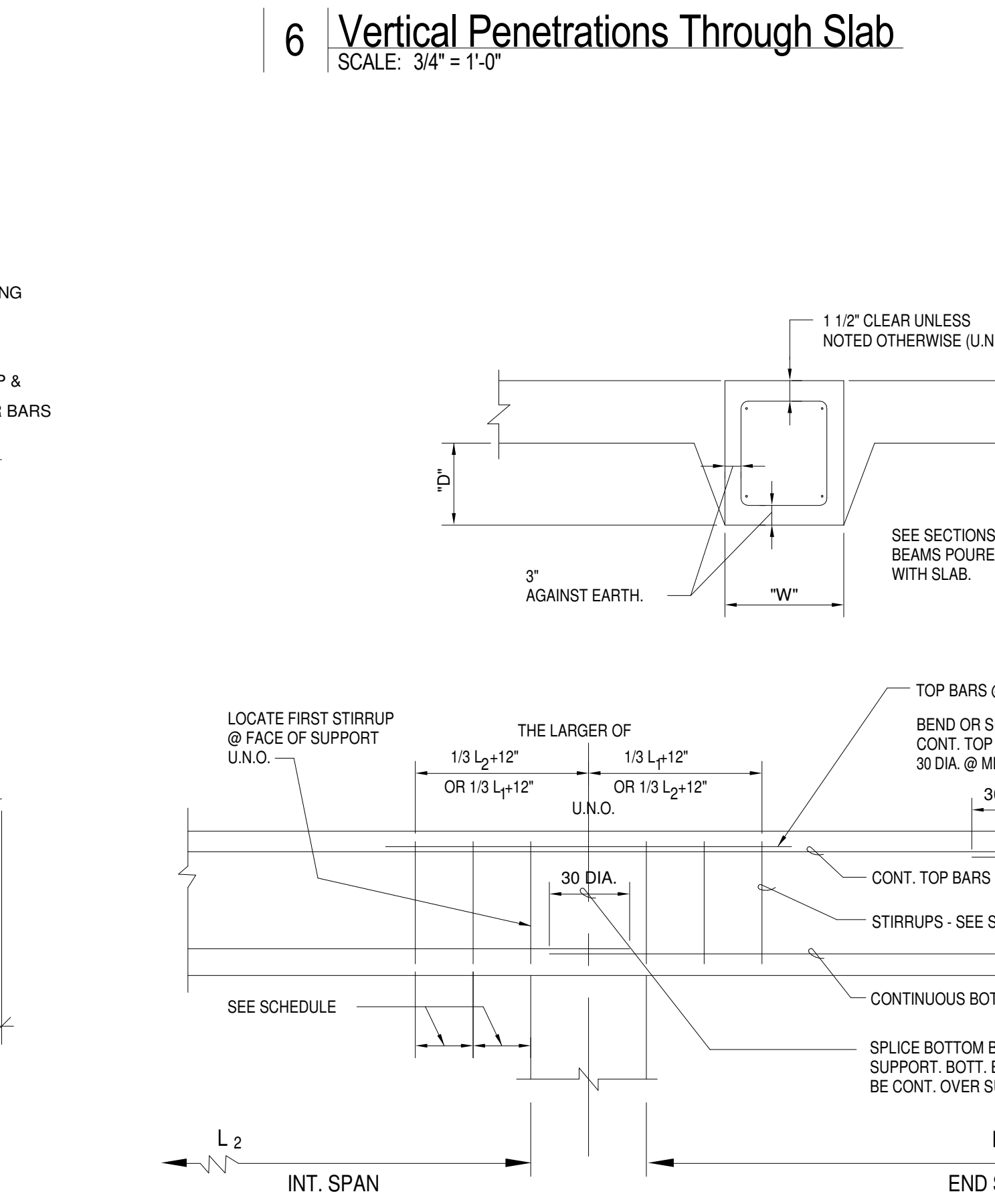
- NOTES:**
- WHERE CLEAR SPACING BETWEEN ADJACENT SLEEVES IS LESS THAN 3", THE SLEEVE GROUP SHALL BE TREATED AS AN EQUIVALENT RECTANGULAR OPENING WITH LENGTH "L" AND WIDTH "W" AS SHOWN ABOVE.
 - WHERE CLEAR SPACING BETWEEN ADJACENT SLEEVES IS GREATER THAN OR EQUAL TO 3", SCHEDULED SLAB BAR REINFORCEMENT SHALL BE OFFSET AS REQUIRED TO MISS SLEEVES.
 - REINFORCEMENT SHOWN IS ADDITIONAL TO SCHEDULED SLAB REINFORCEMENT.
 - SCHEDULED SLAB MESH REINFORCEMENT, MAY BE CUT AS REQUIRED TO MISS PIPE SLEEVES.
 - REFER TO MECHANICAL DRAWINGS FOR LOCATION AND SIZE OF SLEEVES.
 - ISOLATED PIPE SLEEVES THAT ARE SMALLER THAN 5" AND DO NOT INTERRUPT REINFORCING, DO NOT REQUIRE THE USE OF THIS DETAIL.
 - THIS DETAIL SHOULD NOT BE USED FOR OPENING GROUPS WITH DIAMETERS LARGER THAN 12". CONSULT ENGINEER FOR FRAMING OF SUCH CONDITIONS.



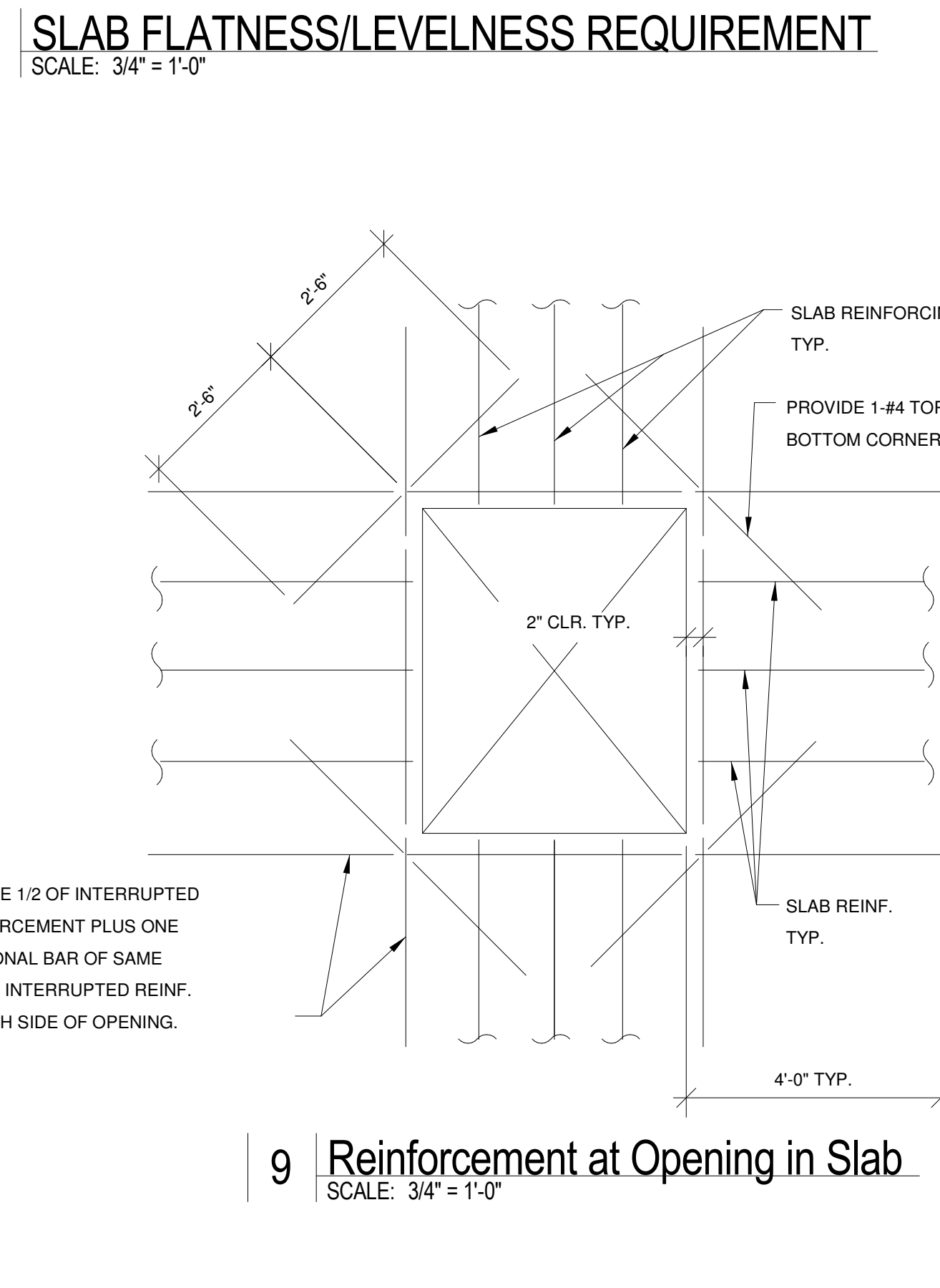
1 Slab Depression
SCALE: 3/4" = 1'-0"



5 SLAB FLATNESS/LEVELNESS REQUIREMENT
SCALE: 3/4" = 1'-0"



10 TYPICAL GRADE BEAM
SCALE: 3/4" = 1'-0"





4/24/2014



JBA New Orleans
3525 N Causeway Blvd Suite 500
Metairie, LA 70002
p.504.830.0139

DATE: 04/24/14
PROJECT NO.: 01-09-1082-02

REVISIONS:

No.	Date	Description

DRAWN BY: JLC
CHECKED BY: MMJ

SHEET TITLE
MECHANICAL LEGEND,
SHEET INDEX, SCHEDULES,
& GENERAL NOTES

SHEET NO

#14.0078
M0.00

SHEET INDEX

ISSUE	SHEET NUMBER	SHEET DESCRIPTION
2014-04-24 FOR BID, REVISED 2014-04-11 FOR BID	M0.00	MECH LEGEND, SHEET INDEX, SCHEDULES & GENERAL NOTES
	M0.01	MECHANICAL EQUIPMENT SCHEDULES
	M0.02	MECHANICAL SPECIFICATIONS
	M0.03	MECHANICAL SPECIFICATIONS
	M0.04	MECHANICAL SPECIFICATIONS
	M2.00	HVAC LEVEL 1 PLAN
M6.01	MECHANICAL DETAILS	
M6.02	MECHANICAL DETAILS	

MECHANICAL SYMBOL LEGEND

(THIS IS A MASTER LEGEND, NOT ALL SYMBOLS MAY APPEAR ON DRAWINGS.)

ABBR	SYMBOL	DESCRIPTION
		SHEET NOTE
		REVISION NUMBER
		ROUND DUCTWORK (INCHES)
		RECTANGULAR DUCTWORK (INCHES)
SA		SUPPLY AIR DUCT UP/DOWN
RA		RETURN AIR DUCT UP/DOWN
EA		EXHAUST AIR DUCT UP/DOWN
OA		OUTSIDE AIR DUCT UP/DOWN
		SUPPLY DIFFUSER, GRILLE OR REGISTER
		RETURN GRILLE
		EXHAUST GRILLE
		LINEAR SLOT DIFFUSER, GRILLE OR REGISTER
		SIDEWALL SLOT DIFFUSER, GRILLE OR REGISTER
		AIR FLOW DIRECTION ARROW
AD		ACCESS DOOR
		SINGLE LINE RIGID DUCT/WITH ACOUSTICAL LINER
		DOUBLE LINE RIGID DUCT/WITH ACOUSTICAL LINER
		SINGLE/DOUBLE LINE RADIUS DUCT ELBOW
		SINGLE/DOUBLE LINE MITERED DUCT ELBOW
		DOUBLE LINE DUCT TRANSITION
FD		FUSIBLE LINK FIRE DAMPER
SD		SMOKE DAMPER
DD		DUCT MOUNTED SMOKE DETECTOR
FSD		COMBINATION FIRE AND SMOKE DAMPER
MD		MOTORIZED DAMPER
MVD		MANUAL VOLUME DAMPER
		MVD WITH REMOTE CEILING OPERATOR
BDD		BACKDRAFT DAMPER
D		DRAIN
RL		REFRIGERANT LIQUID
RS		REFRIGERANT SUCTION
GV, SOV		GATE VALVE/SHUT-OFF VALVE
		UNION
		DUCT OR PIPE SINGLE LINE TRANSITION
		PIPE DOWN
		PIPE UP
		PIPE TEE UP
		PIPE TEE DOWN
		PIPE CAP
		FLOW ARROW
		THERMOSTAT/HUMIDISTAT
		SPACE TEMPERATURE SENSOR WITH PLUG-IN PORT
		OCCUPANCY SENSOR
		CARBON DIOXIDE SENSOR
		EQUIPMENT TYPE
		EQUIPMENT NUMBER
		E = EXISTING
		SUPPLY DIFFUSER TAG, E = EXISTING
		CFM/DIRECTION
		RETURN/EXHAUST GRILLE TAG, E = EXISTING
		CFM
		PLAN/RISER
		SHEET

MECHANICAL ABBREVIATION LIST

(THIS IS A MASTER LIST, NOT ALL ABBREVIATIONS MAY APPEAR ON DRAWINGS.)

AABC	AMERICAN AIR BALANCE COUNCIL	F	DEGREES FAHRENHEIT	OED	OPEN END DUCT
ACD	AUTOMATIC CONTROL DAMPER	FB	FAN POWERED TERMINAL BOX UNIT	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
ACU (AC)	AIR CONDITIONING UNIT	FCU (FC)	FAN COIL UNIT	OPA	OSHPD PRE-APPROVAL OF ANCHORAGE
AD	ACCESS DOOR	FLA	FULL LOAD AMPS	PCF	POUND PER CUBIC FOOT
ADA	AMERICANS WITH DISABILITIES ACT	PFM	FEET PER MINUTE	PCU	POLLUTION CONTROL UNIT
AF	AIR FOIL	FPS	FEET PER SECOND	PD	PRESSURE DROP
AFF	ABOVE FINISH FLOOR	FT	FEET	PH	PHASE
AFMS	AIR FLOW MEASURING STATION	GA	GAUGE	PSI	POUND PER SQUARE INCH
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	GBS	GALVANIZED BIRD SCREEN	PSIA	POUND PER SQUARE INCH ABSOLUTE
AHU (AH)	AIR HANDLING UNIT	GR	GRILLE	PSIG	POUND PER SQUARE INCH GAUGE
AP	ACCESS PANEL	H	HEIGHT	REFR	REFRIGERANT
APD	AIR PRESSURE DROP	HP	HORSE POWER	RH	RELATIVE HUMIDITY
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	HR	HOUR	RPM	REVOLUTIONS PER MINUTE
AUTO	AUTOMATIC	HZ	HERTZ	SD	SMOKE DAMPER
BAS	BUILDING AUTOMATION SYSTEM	IBC	INTERNATIONAL BUILDING CODE	SEER	SEASONAL ENERGY EFFICIENCY RATIO
BHP	BRAKE HORSE POWER	IFC	INTERNATIONAL FIRE CODE	SF	SUPPLY FAN
BI	BACKWARD INCLINED	IH	INTAKE HOOD	SP	STATIC PRESSURE
BOD	BOTTOM OF DUCT	IMC	INTERNATIONAL MECHANICAL BUILDING CODE	SQ FT (Φ)	SQUARE FEET
BOS	BOTTOM OF STEEL	IN	INCH	SS	STAINLESS STEEL
BTU	BRITISH THERMAL UNIT	IPC	INTERNATIONAL PLUMBING BUILDING CODE	TAB	TESTING AND BALANCING
CC	COOLING COIL	KW	KILOWATT	TOP	TEMPERATURE CONTROL PANEL
CD	CEILING DIFFUSER	L	LENGTH	TD	TEMPERATURE DIFFERENCE
CFH	CUBIC FEET PER HOUR	LAT	LEAVING AIR TEMPERATURE	TEMP (T)	TEMPERATURE
CFM	CUBIC FEET PER MINUTE	LBS	POUNDS	TSP	TOTAL STATIC PRESSURE
CO2	CARBON DIOXIDE	MA	MIXED AIR TEMPERATURE	TYP	TYPICAL
COP	COEFFICIENT OF PERFORMANCE	MAX	MAXIMUM	UNO	UNLESS NOTED OTHERWISE
CU	CONDENSING UNIT	MBH	1000 BRITISH THERMAL UNITS PER HOUR	UV	ULTRA VIOLET
CV	CONSTANT VOLUME	MCA	MINIMUM CIRCUIT AMPS	V	VOLT
DB	DRY BULB TEMPERATURE	MERV	MINIMUM EFFICIENCY REPORTING VALUE	VD	VOLUME DAMPER (MANUAL)
dB	DECIBEL	MIN	MINIMUM	VEL	VELOCITY
DC	DIRECT CURRENT	MOC	MAXIMUM OVER CURRENT PROTECTION	W	WATT, WIDTH
DIA (Ø)	DIAMETER	NA	NOT APPLICABLE	WB	WET BULB TEMPERATURE
DIFF	DIFFUSER	NC	NORMALLY CLOSED (SPRING RETURN)	WC	WATER COLUMN
DN	DOWN	NEBB	NATIONAL ENVIRONMENTAL BALANCING BUREAU	WG	WATER GAUGE
DX	DIRECT EXPANSION	NEC	NATIONAL ELECTRICAL CODE	WMS	WIRE MESH SCREEN
E	EXISTING	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	WT	WEIGHT
EAT	ENTERING AIR TEMPERATURE	NIC	NOT IN CONTRACT		
EER	ENERGY EFFICIENCY RATIO	NO	NORMALLY OPEN (SPRING RETURN)		
EF	EXHAUST FAN				
EFF	EFFICIENCY				
ESP	EXTERNAL STATIC PRESSURE				
EXH	EXHAUST				

MECHANICAL GENERAL NOTES

- DO NOT SCALE DRAWINGS. VERIFY DIMENSIONS IN FIELD PRIOR TO COMMENCEMENT OF WORK.
- EXISTING DUCTWORK, PIPING AND EQUIPMENT TO REMAIN IS SHOWN LIGHT. NEW DUCTWORK, PIPING AND EQUIPMENT IS SHOWN HEAVY. EXISTING DUCTWORK PIPING AND EQUIPMENT TO BE REMOVED IS SHOWN CROSSHATCHED.
- ARCHITECTURAL DRAWINGS SHALL BE REVIEWED FOR PROJECT SCOPE AND AREA OF WORK. WORK SHALL INCLUDE DEMOLITION AND REMOVAL OF EXISTING MECHANICAL SYSTEMS AS REQUIRED. MECHANICAL SYSTEMS IN EXISTING WALLS AND UNDER GROUND SHALL BE REMOVED AND CAPPED AS REQUIRED. RECONNECT EXISTING PIPING AND DUCTWORK NOT IN DEMOLITION AREA AS REQUIRED TO MAINTAIN A COMPLETE AND OPERABLE SYSTEM.
- THE OWNER RESERVES FIRST CHOICE TO KEEP EXISTING EQUIPMENT AND MATERIALS. COORDINATE WITH OWNER AND DELIVER DESIGNATED EQUIPMENT AND MATERIALS REMOVED UNDER THIS CONTRACT TO OWNERS DESIGNATED STORAGE AREA. REMAINING EQUIPMENT AND MATERIAL REMOVED SHALL BECOME PROPERTY OF THE CONTRACTOR.
- UNLESS NOTED OTHERWISE, FLEXIBLE DUCTS TO TERMINAL UNITS, DIFFUSERS, REGISTERS, AND GRILLES SHALL BE SAME SIZE AS NECK.
- LENGTH OF FLEXIBLE DUCTWORK SHALL BE LIMITED TO 5'-0" MAXIMUM HORIZONTAL RUN WITH ONLY ONE 90° BEND. SECURE FLEXIBLE DUCTWORK WITH SCREWS AND DRAWBANDS.
- DUCT SIZES INDICATED ARE NET INSIDE CLEAR DIMENSIONS.
- PROVIDE GEAR OPERATED CEILING OPERATORS FOR INACCESSIBLE MANUAL VOLUME DAMPERS. OPERATOR SHALL BE EQUAL TO YOUNG REGULATOR WITH CEILING ESCUTCHEON AND COVER PLATE. COORDINATE EXACT LOCATION OF COVER PLATE WITH ARCHITECT.
- ITEM DESIGNATIONS INDICATED ARE FOR PURPOSES OF THESE DOCUMENTS ONLY. CONTRACTOR SHALL VERIFY WITH OWNER ACTUAL "TAGGING" INFORMATION TO BE PROVIDED FOR EACH ITEM OF MECHANICAL EQUIPMENT PRIOR TO NAMEPLATE ORDER RELEASE.
- THE MECHANICAL DETAILS SHALL BE INCORPORATED INTO THE ASSOCIATED WORK AND PROVIDE GENERAL GUIDANCE AS TO THE INSTALLATION INTENT WHETHER REFERENCED TO OR NOT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL NECESSARY COMPONENTS FOR A COMPLETE INSTALLATION AND ENSURE THAT ALL INSTALLATIONS ARE IN ACCORDANCE WITH THE EQUIPMENT'S LISTING AND MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTION.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ACTUAL LOCATION OF GRILLES, REGISTERS, DIFFUSERS AND ACCESS PANELS IN CEILING AND FOR DIMENSIONED LENGTHS OF LINEAR DIFFUSERS. COORDINATE DIFFUSER BORDER TYPES WITH CEILING TYPE SCHEDULED IN ARCHITECTURAL REFLECTED CEILING PLANS.
- TURNING VANE RUNNERS SHALL HAVE A VANE IN EVERY SLOT IN STRICT CONFORMANCE WITH MANUFACTURER'S INSTRUCTIONS AND SMACNA DUCT CONSTRUCTION STANDARDS. TURNING VANE SHALL BE SINGLE THICKNESS TYPE.
- FIELD VERIFY FIT OF DUCTWORK AND PIPING PRIOR TO FABRICATION.
- COORDINATE AND VERIFY ACTUAL APPROVED EQUIPMENT DIMENSIONS PRIOR TO POURING CONCRETE EQUIPMENT PADS. COORDINATE EQUIPMENT PAD DIMENSIONS WITH VIBRATION/SEISMIC ISOLATION REQUIREMENT.
- PROVIDE ACCESS DOOR IN DUCTWORK UPSTREAM OF EACH DUCT-MOUNTED COIL, HUMIDIFIER, SMOKE DETECTOR, FIRE DAMPER, SMOKE DAMPER, AND COMBINATION FIRE/SMOKE DAMPER.
- REFER TO EQUIPMENT DRAWINGS, SPECIFICATIONS AND SHOP DRAWINGS FOR CONNECTION REQUIREMENTS TO EQUIPMENT.
- MANUAL VOLUME DAMPERS AND VALVES ON INSULATED DUCTWORK AND PIPING SHALL HAVE EXTENDED STEMS TO ALLOW FOR THE INSULATION THICKNESS. PROVIDE MINIMUM 12" LONG RED RIBBON LOCATOR ON VOLUME DAMPER AND VALVE HANDLES.
- EQUIPMENT START-UP SHALL BE BY MANUFACTURER'S AUTHORIZED REPRESENTATIVE.
- INSTALL THERMOSTATS AND HUMIDISTATS AT MOUNTING HEIGHT 4'-0" AFF IN ACCORDANCE WITH ADA REQUIREMENTS. COORDINATE EXACT LOCATION IN FIELD WITH CONTRACTOR AND ARCHITECT.

DUCTLESS SPLIT SYSTEM SCHEDULE

ITEM		LOCATION	SERVICE	MANUFACTURER MODEL NUMBER (INDOOR UNIT) (OUTDOOR UNIT)	COOLING CYCLE					REFR	FAN COIL UNIT			CONDENSER UNIT				NOTES	
					EAT		TOTAL (MBH)	SENSIBLE (MBH)	AMBIENT TEMP (°F)		SEER	AIRFLOW (CFM)	FAN MCA (A)	MAX OPERATING WEIGHT (LBS)	UNIT MCA (A)	UNIT MOC (A)	V/PH		MAX OPERATING WEIGHT (LBS)
					DB (°F)	WB (°F)													
FC-IT	CU-IT	IT ROOM	IT ROOM	MITSUBISHI PKA-A18HA4 MITSUBISHI PUY-A18NHA4	80.0	67.0	18.0	12.2	95.0	15.3	410A	380	1.0	30	13.0	20.0	208/1	90	1, 2, 3, 4

1. PROVIDE INVERTER DRIVEN COMPRESSOR. WIRING, TRANSFORMERS AND REQUIRED RELAYS.

2. ACTUAL OPERATION AT 0 FEET ABOVE SEA LEVEL. 4. PROVIDE A SINGLE POINT POWER CONNECTION FOR INDOOR AND OUTDOOR UNITS.

3. DUCTLESS SINGLE ZONE WALL-MOUNTED COOLING ONLY SPLIT SYSTEM. PROVIDE UNITS ACCESSORIES (STRAINERS, VALVES, ETC.) AS REQUIRED BY MANUFACTURER FOR COMPLETE SYSTEM OPERATION, EVAPORATOR CONDENSATE DRAIN PAN, TEMPERATURE CONTROLLER WITH COOL/OFF, FAN AUTO/MANUAL, 7-DAY PROGRAMMABLE THERMOSTAT HAVING STAGES AS REQUIRED BY CONTROLLED EQUIPMENT, CONTROL

SPLIT HEAT PUMP SYSTEM SCHEDULE

ITEM		LOCATION	SERVICE	MANUFACTURER MODEL NUMBER (INDOOR UNIT) (OUTDOOR UNIT)	HEATING CYCLE				COOLING CYCLE					FAN COIL UNIT							HEAT PUMP UNIT				NOTES				
					EAT		TOTAL (MBH)	AMBIENT TEMP (°F)	COP	EAT		TOTAL (MBH)	SENSIBLE (MBH)	AMBIENT TEMP (°F)	EER	REFR	SUPPLY AIRFLOW (CFM)	OUTSIDE AIRFLOW (CFM)	ESP (IN. W.G.)	AUX. ELECTRIC HEAT(KW)	VOLTS/PH/Hz	FAN MCA (A)	FAN MOC (A)	MAX OPERATING WEIGHT (LBS)		UNIT MCA (A)	UNIT MOC (A)	V/PH	MAX OPERATING WEIGHT (LBS)
					DB (°F)	WB (°F)				DB (°F)	WB (°F)																		
FC-1	HP-1	MECH RM.	EAST	TWE090D300A TWA090030R0	70.0	95.98	63.5	3.36	78.1	64.8	88.81	69.20	95.0	11.0	410A	2930	365	1.0	18.72	208/3/60	7.8	15.00	395	34.4	45.0	208/3	380	1, 2	
FC-2	HP-2	MECH RM.	WEST	TWE090D300A TWA090030R0	70.0	97.76	65.0	3.39	77.8	65.1	91.00	68.57	95.0	11.0	410A	2615	425	1.0	18.72	208/3/60	7.8	15.00	395	34.4	45.0	208/3	380	1, 2	

1. PROVIDE PROGRAMMABLE THERMOSTAT WITH OCCUPANCY OVERRIDE. 2. PROVIDE SINGLE POINT ELECTRICAL CONNECTION FOR INDOOR UNIT.

SUPPLY AIR				RETURN or EXHAUST AIR			
ITEM	NECK SIZE	CFM RANGE	TYPE	ITEM	NECK SIZE	CFM RANGE	TYPE
1	6 X 6	0 - 110	S1	1	6 X 6	0 - 100	R2
2	9 X 9	111 - 310	S1	2	8 X 8	101 - 190	R2
3	12 X 12	311 - 550	S1	3	10 X 10	191 - 300	R2
4	15 X 15	551 - 800	S1	4	12 X 12	201 - 450	R2
5	6 X 6	0 - 150	S2	5	14 X 14	451 - 625	R2
				6	22 X 22	0 - 2000	R1

DIFFUSER & REGISTER SPECIFICATIONS

SUPPLY AIR:

TYPE S1: PRICE MODEL AMD LOUVERED FACE DIFFUSER WITH BORDER TYPE 3 FOR LAY-IN CEILINGS OR BORDER TYPE 6 FOR SURFACE MOUNT. THROW PATTERN SHALL BE 4 WAY UNLESS NOTED OTHERWISE.

TYPE S2: PRICE MODEL 620DAL DOUBLE DEFLECTION REGISTER WITH 3/4" SPACED BLADES AND 35° DEFLECTION, BORDER TYPE 1 FOR SURFACE MOUNT OR BORDER TYPE 3 FOR LAY-IN CEILINGS, OPPOSED BLADE DAMPER.

RETURN/EXHAUST AIR:

TYPE R1: PRICE MODEL APDDR PERFORATED FLUSH FACE GRILLE WITH BORDER TYPE 3 WITH 24" X 24" MODULE SIZE FOR LAY-IN CEILINGS AND PLENUM RETURN.

TYPE R2: TITUS MODEL 350RL BLADE TYPE GRILLE WITH 3/4" SPACED BLADES AND 35° DEFLECTION, BORDER TYPE 1 FOR SURFACE MOUNT OR BORDER TYPE 3 FOR LAY-IN CEILINGS. INSTALL WITH BLADES OPPOSED TO LINE OF SIGHT.

EXHAUST FAN SCHEDULE

ITEM	LOCATION	SERVICE	MANUFACTURER MODEL NUMBER	TYPE	AIRFLOW (CFM)	ESP (IN WG)	RPM	BHP	MOTOR		MAX OPERATING WEIGHT (LBS)	NOTES
									HP	V/PH		
EF-1	MEN'S 108	TOILET RM	GREENHECK BSQ-90-4	IN-LINE	660	0.40	1448	.19	1/4	115/1	90	1, 2, 3

1. OPERATION AT 0 FEET ABOVE SEA LEVEL.
2. PROVIDE BACKDRAFT DAMPER AND WALL CAP.
3. PROVIDE FACTORY-FURNISHED DISCONNECT SWITCH.

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4/24/2014



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St Bernard Parish Sheriff's Substation

47 Paris Road

DATE: 04/24/14
PROJECT NO.: 01-09-1082-02

REVISIONS:		
No.	Date	Description

DRAWN BY: JLC
CHECKED BY: MMJ

SHEET TITLE
**MECHANICAL
EQUIPMENT
SCHEDULES**

SHEET NO

M0.01

#14.0078

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DIVISION 23 - MECHANICAL SPECIFICATIONS

PART 1 - GENERAL

A. GENERAL

- GENERAL CONDITIONS, SPECIAL REQUIREMENTS OR GENERAL REQUIREMENTS OF THE PROJECT SPECIFICATIONS MANUAL ARE MADE PART OF THIS SPECIFICATION AND HAVE THE SAME FORCE AND EFFECT AS IF COMPLETELY REPRODUCED.
- DEFINITIONS:** THE WORD "WORK" SHALL MEAN LABOR AND ANY INCIDENTAL ITEMS OR SERVICES NECESSARY FOR THE PROPER INSTALLATION AND OPERATION OF THE COMPLETE SYSTEMS NOTED ON THESE DRAWINGS AND ASSOCIATED SPECIFICATIONS. THE WORD "PROVIDE" SHALL MEAN FURNISH AND INSTALL AND MAKE FINAL CONNECTIONS AND LEAVE IN AN APPROVED COMPLETE OPERATING CONDITION.
- WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST ADOPTED EDITIONS OF THE APPLICABLE IBC (INTERNATIONAL BUILDING CODE), IMC (INTERNATIONAL MECHANICAL CODE), IECC (INTERNATIONAL ENERGY CONSERVATION CODE), LSPC (LOUISIANA STATE PLUMBING CODE), LOUISIANA SANITARY CODE, NEC (NATIONAL ELECTRICAL CODE), NFPA (NATIONAL FIRE PROTECTION ASSOCIATION) 90A, AND OTHER APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS; INCLUDING AMENDMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING FEES AND OBTAINING PERMITS AND INSPECTIONS REQUIRED FOR THE WORK.
- INFORM THE OWNER OF ANY WORK OR MATERIALS WHICH VIOLATES ANY OF THE APPLICABLE LAWS AND REGULATIONS BEFORE PROCEEDING WITH THE WORK.
- MATERIALS SPECIFIED BY REFERENCE TO A SPECIFIC STANDARD SUCH AS THE ASTM (AMERICAN SOCIETY OF TESTING MATERIALS), UL (UNDERWRITERS' LABORATORIES), ANSI (AMERICAN NATIONAL STANDARDS INSTITUTE), FS (FEDERAL SPECIFICATIONS), A TA (TRADE ASSOCIATION) STANDARD, OR OTHER SIMILAR STANDARD SHALL COMPLY WITH THE REQUIREMENTS OF THE LATEST REVISION THEREOF IN EFFECT AT THE TIME OF BIDDING, EXCEPT AS LIMITED BY TYPE, CLASS OR GRADE, OR MODIFIED IN SUCH REFERENCE.
- ALL MATERIALS, EQUIPMENT AND APPARATUS SHALL BE UL LISTED OR LABELED FOR ALL ITEMS WHERE SUCH LISTING OR LABELING IS AVAILABLE. ITEMS WHICH ARE NOT UL LISTED OR LABELED WILL NOT BE ACCEPTED IF LISTED OR LABELED EQUIPMENT CAN BE OBTAINED FROM ANOTHER ACCEPTABLE MANUFACTURER. EACH COMPONENT OF ASSEMBLIES SHALL BE UL LISTED AS A "RECOGNIZED COMPONENT". COMPONENTS NOT SO LISTED OR MARKED WILL NOT BE ACCEPTED IF LISTED OR MARKED COMPONENTS ARE AVAILABLE FROM ANOTHER MANUFACTURER'S.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER FITTING OF MATERIAL INTO THE BUILDING AS INDICATED ON DRAWINGS, WITHOUT INTERFERENCE WITH OTHER WORK, AND SHALL MAKE REASONABLE MODIFICATIONS IN THE LAYOUTS NEEDED TO PREVENT CONFLICT WITH OTHER TRADES, TO PROVIDE ACCESS AND FOR THE PROPER EXECUTION OF THE WORK.
- WORK SHALL BE COORDINATED WITH THE WORK OF OTHER TRADES INCLUDING CONTRACT DOCUMENTS, SHOP DRAWINGS, AND EXISTING SYSTEMS.
- DO NOT SCALE DRAWINGS AS THEY ARE DIAGRAMMATIC AND SCHEMATIC IN NATURE. CONTRACTOR SHALL PROVIDE NECESSARY ITEMS TO COMPLETE THE WORK ACCORDING TO INDUSTRY STANDARDS. IT IS THE INTENT OF THE DRAWINGS AND SPECIFICATIONS TO CALL OUT FOR FINISHED WORK, TESTED AND READY FOR OPERATION. ARRANGEMENT OF EQUIPMENT AND ROUTING OF PIPES AND DUCTWORK INDICATED ON DRAWINGS SHALL BE ROUTED PLUMB AND AT RIGHT ANGLES. INSTALLATION OF SYSTEMS MAY REQUIRE MODIFICATION DUE TO UNFORESEEN CONDITIONS.
- THE MECHANICAL DETAILS SHALL BE CONSIDERED A PART OF THE CONTRACT DOCUMENTS. THESE DETAILS SHALL BE INCORPORATED INTO THE ASSOCIATED WORK AND PROVIDE GENERAL GUIDANCE AS TO THE INSTALLATION INTENT WHETHER REFERENCED OR NOT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL NECESSARY COMPONENTS FOR A COMPLETE INSTALLATION AND ENSURE THAT ALL INSTALLATIONS ARE IN ACCORDANCE WITH THE EQUIPMENT'S LISTING AND THE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.
- CONTRACTOR SHALL SUBMIT A BID BASED ON MANUFACTURER NAMES LISTED UNLESS "OR EQUAL" IS INDICATED. SUBSTITUTION REQUESTS WILL BE REVIEWED BY THE ENGINEER, AND MUST BE SUBMITTED A MINIMUM OF FIVE (5) BUSINESS DAYS PRIOR TO BID DATE CLOSING. ACCEPTABILITY OF SUBSTITUTION WILL BE SOLELY DETERMINED BY THE OWNER.
- WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER TO THE SATISFACTION OF THE ARCHITECT.
- GUARANTEE THE INSTALLATION AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP WHICH MAY OCCUR UNDER NORMAL USAGE FOR A PERIOD OF ONE (1) YEAR AFTER OWNER'S ACCEPTANCE. DEFECTS SHALL BE PROMPTLY REMEDIED WITHOUT COST TO THE OWNER. ALL MANUFACTURER'S WARRANTIES FOR EQUIPMENT EXTENDING BEYOND THE GUARANTEE PERIOD SHALL BE TURNED OVER TO THE OWNER.
- SYSTEMS SHALL BE TESTED FOR PROPER OPERATION. IF TESTS SHOW THAT WORK IS DEFECTIVE, CONTRACTOR SHALL MAKE CORRECTIONS NECESSARY AT NO COST TO OWNER.
- IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO ESTABLISH A STANDARD OF QUALITY.

B. EXAMINATION OF BIDDING DOCUMENTS:

- EACH BIDDER SHALL EXAMINE THE BIDDING DOCUMENTS CAREFULLY AND, NOT LATER THAN SEVEN (7) DAYS PRIOR TO THE DATE OF RECEIPT AND BIDS, SHALL MAKE WRITTEN REQUEST TO THE ARCHITECT FOR INTERPRETATION OR CORRECTION OF ANY DISCREPANCIES, AMBIGUITY, INCONSISTENCY OR ERROR THEREIN. ANY INTERPRETATION OR CORRECTION WILL BE ISSUED AS AN ADDENDUM BY THE ARCHITECT. ONLY A WRITTEN INTERPRETATION OR CORRECTION BY ADDENDUM SHALL BE BINDING, NO BIDDER SHALL RELY UPON INTERPRETATIONS OR CORRECTIONS GIVEN BY ANY OTHER METHOD. IF DISCREPANCIES, AMBIGUITY, INCONSISTENCY OR ERROR ARE NOT COVERED BY ADDENDUM OR WRITTEN DIRECTIVE, CONTRACTOR SHALL INCLUDE IN THE BID, LABOR, MATERIALS AND METHODS OF CONSTRUCTION RESULTING IN HIGHER COST. AFTER AWARD OF CONTRACT, NO ALLOWANCE OR EXTRA COMPENSATION WILL BE MADE IN BEHALF OF THE CONTRACTOR DUE TO THE FAILURE TO MAKE THE WRITTEN REQUESTS AS DESCRIBED ABOVE.
- THE COMPANY/CONTRACTOR SUBMITTING THE REQUEST WILL BE RESPONSIBLE FOR ITS

PROMPT DELIVERY. FAILURE TO REQUEST CLARIFICATION OF ANY INADEQUACY, OMISSION OR CONFLICT WILL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY. THE SIGNING OF THE CONTRACT WILL BE CONSIDERED AS IMPLICITLY DENOTING THAT THE CONTRACTOR HAS A THOROUGH COMPREHENSION OF THE FULL INTENT AND SCOPE OF THE WORKING DRAWINGS AND SPECIFICATIONS.

C. SUBMITTALS

- CONTRACTOR SHALL SUBMIT FIVE (5) SETS OF SHOP DRAWINGS, TECHNICAL DATA SHEETS, AIR DISTRIBUTION LAYOUT DRAWINGS (1/4"=1'-0" SCALE), AND PIPING DISTRIBUTION LAYOUT DRAWINGS (1/4"=1'-0" SCALE). THE ROUTING OF NEW DISTRIBUTION SYSTEM IS SHOWN DIAGRAMMATICALLY AND APPROXIMATED. THE CONTRACTOR SHALL PROVIDE OFFSETS AND TRANSITIONS AS REQUIRED. THE CONTRACTOR SHALL DETERMINE EXACT ROUTING AND LOCATIONS, PROVIDING PROPER CLEARANCES, MAKING PROVISIONS FOR MAINTENANCE ACCESS, AND COORDINATING WITH EXISTING AND NEW COMPONENTS OF OTHER TRADES, THE STRUCTURE, AND OTHER OBSTRUCTIONS. INDICATE SPACES RESERVED FOR FIRE SPRINKLER, PIPING AND ELECTRICAL CONDUIT MAINS. THE DUCTWORK SHOP DRAWING SUBMITTAL SHALL BE BASED ON THIS COORDINATION EFFORT AND SHALL SHOW AIR DISTRIBUTION COMPONENTS, DUCTWORK, PIPING AND COMPONENTS SHALL BE DRAWN TO SCALE, AND SIZES SHALL BE INDICATED. THE ENGINEER SHALL REVIEW SUBMITTALS AND SHOP DRAWINGS FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS AND ISSUE A WRITTEN ASSESSMENT TO THE OWNER PRIOR TO COMMENCEMENT OF WORK.
- CONTRACTOR SHALL SUBMIT FIVE (5) SETS OF EQUIPMENT AND SYSTEM CONTROL SEQUENCES, SCHEMATICS, LOGIC DIAGRAMS AND SYSTEM COMPONENTS. THE ENGINEER SHALL REVIEW CONTROL SHOP DRAWINGS FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS AND ISSUE A WRITTEN ASSESSMENT TO THE OWNER PRIOR TO COMMENCEMENT OF WORK.
- CONTRACTOR SHALL IDENTIFY ANY DEVIATIONS IN SHOP DRAWINGS FROM THE DESIGN DOCUMENTS.
- SUBSTITUTIONS SHALL BE SUBMITTED TO THE OWNER FOR CONSIDERATION PRIOR TO BIDDING. SUBSTITUTIONS SHALL BE PRE-APPROVED IN WRITING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING REQUIREMENTS ASSOCIATED WITH SUBSTITUTED EQUIPMENT OR MATERIALS WITH OTHER BUILDING TRADES INCLUDING ELECTRICAL, STRUCTURAL, AND ARCHITECTURAL ELEMENTS. CONTRACTOR SHALL IDENTIFY AND ANNOTATE REVISED REQUIREMENTS PER BUILDING TRADE ON THE SHOP DRAWINGS. CONTRACTOR SHALL ALSO IDENTIFY COST DEBITS OR CREDITS IN WRITING FOR THE PROPOSED CHANGES PER BUILDING TRADE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ENGINEERING FEES NECESSARY TO CHANGE PERMIT DOCUMENTS BASED ON ALTERNATE SUBMITTAL PACKAGES/EQUIPMENT SUBSTITUTIONS.

D. RECORD DRAWINGS

- CONTRACTOR SHALL MAINTAIN TWO (2) SETS OF DRAWINGS PERTAINING TO THE WORK. ONE (1) SET OF PRINTS SHALL BE KEPT ON SITE AND CHANGES OR DEVIATIONS FROM THE CONTRACT DRAWINGS SHALL BE CAREFULLY NOTED AS CHANGES OR DEVIATIONS ARE MADE. AT THE COMPLETION OF THE PROJECT AND BEFORE FINAL ACCEPTANCE OF THE WORK, COPY THE CHANGES, DEVIATIONS, AND COMPLEMENTARY INFORMATION ON THE OTHER SET OF PRINTS AND RETURN IT TO THE OWNER. THE COST OF PRINTS AND COSTS INVOLVED IN THE PREPARATION OF THESE RECORD DRAWINGS SHALL BE BORNE BY THE CONTRACTOR.
- NO APPROVAL FOR FINAL PAYMENT WILL BE GIVEN UNTIL, IN THE JUDGMENT OF THE ENGINEER, COMPLETE AND ACCURATE "AS-BUILT" DRAWINGS HAVE BEEN SUBMITTED.
- FINAL AS-BUILT DRAWINGS ARE TO BE AT LEAST 1/4"=1'-0" SCALE. AS-BUILT DRAWINGS CAN BE GENERATED ON COMPUTER OR BY HAND. IF DRAWINGS ARE HAND GENERATED THEY SHALL BE ON MYLAR. IF THE AS-BUILT DRAWINGS ARE COMPUTER GENERATED, THE CONTRACTOR SHALL DELIVER AN ELECTRONIC COPY OF THE AS-BUILT DOCUMENTATION TO THE OWNER.

F. OPERATING AND MAINTENANCE (O&M) INSTRUCTIONS

- CONTRACTOR SHALL PROVIDE THREE (3) COPIES OF MANUFACTURER'S O&M INSTRUCTIONS FOR EACH PIECE OF EQUIPMENT AND SYSTEM. COPIES SHALL BE COMPILED IN SETS AND PLACED IN A HARD COVER THREE (3) RING BINDER WITH INDEX PAGE AND INDEX TABS. NAME TAG INFORMATION SUCH AS MANUFACTURER, TYPE, SIZE, CAPACITY, SERIAL NUMBER, ETC SHALL BE INCLUDED AS PART OF THE MANUAL.
- PROVIDE WRITTEN OPERATING INSTRUCTIONS WITH DIAGRAMS FOR ALL EQUIPMENT AND ACCESSORIES.
- THE O&M MANUALS SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW.
- FURNISH ONE (1) CLEAN COPY OF EACH FULLY CORRECTED AND PROCESSED SHOP DRAWING.
- REVIEW AND DEMONSTRATE THE O&M INSTRUCTIONS ON SITE WITH THE BUILDING OWNER AFTER THE COMPLETION OF START-UP, TESTING AND BALANCING.

PART 2 - PRODUCTS

A. GENERAL

- PROVIDE EQUIPMENT AS SPECIFIED AND/OR SCHEDULED AND IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS. EQUIPMENT SHALL OPERATE ACCORDING TO THE MANUFACTURER'S "OWNER'S OPERATING AND MAINTENANCE MANUAL" TROUBLE-FREE PRIOR TO STARTING TAB (TEST AND BALANCE) WORK.

B. DUCTWORK

- DUCTWORK SIZES SHOWN ARE FREE AREA DIMENSIONS. INCREASE DUCTWORK DIMENSIONS TO ACCOMMODATE LINING REQUIREMENTS.
- MATERIAL, CONSTRUCTION, AND INSTALLATION SHALL MEET REQUIREMENTS OF THE LATEST EDITION OF SMACNA (SHEET METAL AND AIR-CONDITIONING CONTRACTORS NATIONAL ASSOCIATION) DUCT CONSTRUCTION STANDARDS AND ASHRAE (AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR-CONDITIONING ENGINEERS) RECOMMENDATIONS, EXCEPT FOR MORE STRINGENT REQUIREMENTS SPECIFIED OR SHOWN ON DRAWINGS.
- SUPPLY, RETURN, AND GENERAL EXHAUST DUCT SHALL BE GALVANIZED SHEET METAL UNLESS OTHERWISE SPECIFIED.
- PROVIDE SUPPORTING AND HANGING DEVICES NECESSARY TO ATTACH ENTIRE HVAC SYSTEM INCLUDING DUCTWORK, EQUIPMENT, AND PIPING TO PREVENT VIBRATION. SYSTEMS AND

ASSOCIATED COMPONENTS SHALL BE FREE FROM VIBRATION UNDER ALL CONDITIONS OF OPERATION.

- WHEN MAKING OFFSETS AND TRANSFORMATIONS NECESSARY TO ACCOMMODATE STRUCTURAL CONDITIONS, PRESERVE FULL CROSS-SECTIONAL AREA OF DUCTWORK SHOWN ON DRAWINGS.
- LOW PRESSURE DUCTWORK DISTRIBUTION SHALL BE 2" WG PRESSURE CLASS. RETURN AND EXHAUST DUCTWORK SHALL BE 2" WG PRESSURE CLASS.
- PRESSURE TEST DUCTS AFTER TAKEOFFS AND WALL PENETRATIONS ARE IN PLACE AND BEFORE APPLYING EXTERIOR INSULATION. CORRECT ANY LEAKS.
- PRESSURE AND LEAK TEST 25% OF LOW PRESSURE DUCTWORK AT 150% OF DUCT CONSTRUCTION CLASS PRESSURE. NOTE: FOR SUPPLY SYSTEMS, PERFORM POSITIVE PRESSURE TEST. FOR RETURN AND EXHAUST SYSTEMS ON SUCTION SIDE, PERFORM NEGATIVE PRESSURE TEST. DUCT SHALL BE CONSTRUCTED SO THERE IS NO JOINT OR STRUCTURAL FAILURE AT THE TEST PRESSURE.

C. FLEXIBLE DUCTWORK

- FLEXIBLE DUCTWORK SHALL BE UL RATED FOR 12" WG (WATER GAUGE) POSITIVE PRESSURE, 2" WG NEGATIVE PRESSURE WITH A MAXIMUM VELOCITY OF 4000 FPM (FEET PER MINUTE), BE LISTED AS A CLASS 1 CONNECTOR ACCORDING TO UL 181, AND MEET THE REQUIREMENTS OF NFPA (NATIONAL FIRE PROTECTION ASSOCIATION) 90A. MAXIMUM ASTM E-84 FIRE HAZARD RATING SHALL BE 25 FLAME SPREAD, 50 FUEL CONTRIBUTED AND 50 SMOKE DEVELOPED. INSULATED FLEXIBLE DUCT SHALL BE EQUIVALENT TO FLEXMASTER TYPE 1. UNINSULATED FLEXIBLE DUCT SHALL BE EQUIVALENT TO FLEXMASTER TYPE 4. JOINTS SHALL BE STEEL BAND-CLAMPED AND TAPE SEALED TO MAINTAIN INTEGRITY OF VAPOR BARRIER. FLEXIBLE DUCTWORK SHALL BE SUPPORTED AS TO ELIMINATE SAGS EXCEEDING 1/2" PER FOOT BETWEEN SUPPORTS.
- FLEXIBLE DUCTWORK, CONNECTING TO UNINSULATED OR UNLINED DUCT, SHALL BE VINYL COATED FIBERGLASS CLOTH, MINIMUM 25 STRANDS PER INCH THREAD COUNT WITH CORROSION-RESISTANT HELICAL WIRE REINFORCEMENT.
- FLEXIBLE DUCTWORK CONNECTING TO INSULATED OR LINED DUCT SHALL BE STEEL WIRE COIL REINFORCED, INSULATED (MINIMUM R-VALUE OF 6.0) WITH A FLAME RETARDANT (UL LISTED) VAPOR BARRIER MEETING ASTM E-84 RATING.
- FLEXIBLE DUCT SHALL BE SECURED TO RIGID DUCTWORK AND AIR DEVICES WITH SCREWS AND DRAWBANDS. LENGTH OF FLEXIBLE DUCTWORK SHALL BE LIMITED TO 5'-0" AND SHALL NOT BE COMPRESSED. FLEXIBLE DUCTWORK SHALL NOT BE USED ABOVE INACCESSIBLE CEILINGS AND SHALL NOT PASS THROUGH WALLS.

D. DUCTWORK INSULATION

- INSULATE SUPPLY, RETURN, AND OUTSIDE AIR DUCTS AND PLENUMS. RETURN DUCTS (IN CEILING PLENUM) OF ASSOCIATED PLENUM RETURN AIR SYSTEM DO NOT NEED TO BE INSULATED. INSULATION SHALL BE A MINIMUM OF 1-1/2" THICK, 3/4 LBS/CU FT (POUNDS PER CUBIC FOOT) DENSITY (MAXIMUM K-VALUE OF 0.29 AT 75°F) FIBROUS GLASS DUCT WRAP UNLESS OTHERWISE NOTED. MATERIALS SHALL MEET REQUIREMENTS OF ADHESIVE AND SEALANT COUNCIL STANDARDS, SMACNA AND HAVE FLAME SPREAD/SMOKE DEVELOPED RATING OF 25/50 OR LESS. INSULATION SHALL BE SECURED WITH WIRE TIES AT 12" ON CENTER OR WITH SELF-SEALING LAP AND TAPE JOINTS 3" ON CENTER AT FITTINGS. JOINTS SHALL BE COVERED WITH 3" WIDE FOIL REINFORCED KRAFT TAPE.
- ADHESIVE OR MECHANICAL FASTENERS SHALL BE USED WHERE NECESSARY TO PREVENT SAGGING. VAPOR BARRIER PENETRATIONS BY MECHANICAL FASTENERS SHALL BE SEALED WITH VAPOR BARRIER ADHESIVE. INSULATION SHALL STOP AND POINT AROUND ACCESS DOORS AND DAMPER OPERATORS TO ALLOW OPERATION WITHOUT DISTURBING WRAPPING.
- EXHAUST DUCTWORK SHALL BE UNINSULATED UNLESS NOTED OTHERWISE.

E. DUCTWORK ACCESSORIES AND MISCELLANEOUS

- DUCT HANGERS SHALL BE CONSTRUCTED OF GALVANIZED STEEL. DUCTS SHALL BE SUPPORTED AND CONNECTED TO THE STRUCTURE PER SMACNA DUCT CONSTRUCTION STANDARDS. HANGERS AND SUPPORTS FOR GREASE DUCT SHALL BE OF NON-COMBUSTIBLE MATERIALS. FLEXIBLE DUCTS SHALL BE SUPPORTED WITH GALVANIZED STRAPS.
- PROVIDE PROPER PRESSURE AND LEAKAGE RATED, GASKETED, DUCT MOUNTED ACCESS PANELS/DOORS. IN INSULATED DUCTS, ACCESS DOORS SHALL BE INSULATED DOUBLE WALL. GAUGES OF DOOR MATERIALS, NUMBER OF HINGES, NUMBER AND TYPE OF DOOR LOCKS SHALL BE AS REQUIRED BY THE SMACNA DUCT CONSTRUCTION STANDARD. UNHINGED DOORS SHALL BE CHAINED TO FRAME WITH A MINIMUM LENGTH OF 6" TO PREVENT LOSS OF DOOR. FOR SEAL CLASS A, HINGED DOORS ARE NOT ACCEPTABLE, SCREWED OR BOLTED ACCESS PANELS ARE NOT ACCEPTABLE. ACCESS DOORS SHALL BE LEAKED RATED, NEOPRENE GASKETED UL 94 HF1 LISTED. DUCTMATE "SANDWICH".
- ACCESS DOOR METAL SHALL BE THE SAME AS THE ATTACHED DUCT MATERIAL. THE MINIMUM SIZES ARE:

FIRE DAMPERS	12" x 12" (OR LARGER)
AUTOMATIC SMOKE CONTROL DAMPERS	6" x 6"
MANUAL VOLUME DAMPERS 2 SQ FT AND LARGER	6" x 6"
SUCTION AND DISCHARGE SIDES OF INLINE FANS	24" x 24"
- PROVIDE MANUAL ADJUSTABLE VOLUME DAMPERS, WITH EXTENDED MOUNT INDICATING AND LOCKING QUADRANTS AT EACH TAKE-OFF TO REGISTER, GRILLE OR DIFFUSER (NOT ALL ARE SHOWN ON DRAWINGS). FOR SEAL CLASS A, PENETRATIONS SHALL BE PROVIDED WITH SEALED ASSEMBLIES, VENTLOK HVEL 641 AND HVEL 609 END BEARINGS OR APPROVED EQUAL. FOR INSULATED DUCTS PROVIDE PROPER ASSEMBLY. DAMPERS SHALL BE 1/2" SMALLER IN BOTH DIMENSIONS OR 1" SMALLER DIAMETER THAN SIZE OF DUCT IN WHICH THEY ARE INSTALLED. EXAMPLE: USE 23-1/2" x 23-1/2" DAMPER FOR 24" SQUARE DUCT. DAMPERS LARGER THAN 12" IN HEIGHT SHALL BE OPPOSED MULTI-BLADE. DAMPER BLADES SHALL BE TWO (2) GAUGES HEAVIER THAN ADJOINING DUCTWORK, AND SHALL BE RIVETED TO SUPPORTING RODS. HEM OVER EDGES PARALLEL TO RODS. BRACKETS SHALL BE GALVANIZED METAL, SECURED TO DUCTWORK WITH SHEET METAL SCREW WITH LOCKING QUADRANT ARMS (SEE SEAL CLASS SECTION FOR ADDITIONAL REQUIREMENTS). PROVIDE 2" HANDLE EXTENSION FOR ALL DAMPERS ON EXTERNALLY INSULATED DUCTWORK. ALL REQUIRED VOLUME DAMPERS MAY NOT BE INDICATED ON DRAWINGS BUT DAMPERS SHALL BE PROVIDED AS NECESSARY FOR SYSTEM BALANCING.

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M0.02

#14.0078

5. BACKDRAFT DAMPERS FOR EXHAUST FANS, ETC SHALL HAVE NEOPRENE EDGES (NO METAL ON METAL CONTACT).
6. SEAL DUCT PENETRATIONS THROUGH WALLS, FLOORS, AND ROOF.
7. SEAL TRANSVERSE JOINTS AND LONGITUDINAL DUCT SEAMS WITH APPROVED MASTIC. DUCT TAPES SHALL NOT BE ALLOWED FOR RIGID DUCTWORK.
8. WHEN SECTION OF DUCTWORK IS NOT LABELED FOR SIZE, THE LARGER SIZE INDICATED ON THE CONNECTED DUCT SHALL PREVAIL. SIZE OF DUCT RUN-OUTS TO DIFFUSER SHALL EQUAL DIFFUSER NECK SIZE UNLESS NOTED OTHERWISE.
9. DUCT BRANCH CONNECTION AND TAKE-OFFS SHALL BE MADE WITH 45° CONNECTION, BELLMOUTH OR CONICAL ONLY. SPIN-IN COLLARS AND STRAIGHT TAPS SHALL NOT BE USED.
10. RADIUS ELBOWS OR MITERED ELBOWS WITH SINGLE THICKNESS TURNING VANES SHALL BE UTILIZED. TURNING VANES SHALL BE SUPPORTED AT INTERVALS OF 3'-0" MAXIMUM. TURNING VANE RUNNERS SHALL HAVE A VANE IN EVERY SLOT.
11. DUCTWORK SHALL NOT RUN ALONG FULL HEIGHT PARTITIONS.
12. DUCTWORK VISIBLE BEHIND DUCTED OR UNDUCTED DIFFUSERS, REGISTERS, GRILLES, PERFORATED CEILINGS, CEILING REVEALS, OR DECORATIVE ARCHITECTURAL GRILLES SHALL BE PAINTED FLAT BLACK.
- F. PIPING AND FITTINGS**
1. PROVIDE DIELECTRIC FITTINGS TO CONNECT DIFFERENT PIPING MATERIALS.
2. EQUIPMENT AND CONDENSATE DRAINS SHALL BE TYPE M HARD DRAWN COPPER TUBING WITH WROUGHT COPPER FITTINGS. COPPER TUBING SHALL BE SOLDERED WITH 95-5 TIN-ANTIMONY SOLDER OR BRAZED WITH SILVER BASED FILLER MATERIAL DRAINS SHALL BE ROUTED SO AS NOT TO CREATE A TRIPPING HAZARD.
3. REFRIGERANT PIPING SHALL BE ACR COPPER TUBING.
- G. PRODUCTS**
1. **DRIVES:** DRIVES FOR BELTED MOTORS SHALL BE FLAME RETARDANT AND BY ALLIS-CHALMERS, BROWNING OR WOODS V-BELT DRIVES WITH ADJUSTABLE MOTOR SHEAVE. DRIVES SHALL BE AS SHORT AS PRACTICAL AND SHALL HAVE NUMBER OF BELTS NECESSARY TO TRANSMIT REQUIRED HORSEPOWER WITHOUT UNDUE SLIP OR STRAIN. SHEAVES SHALL BE BALANCED STATICALLY AND DYNAMICALLY.
2. **ELECTRICAL ACCESSORIES WORK:** MOTORS FOR DAMPERS, FANS AND AIR-CONDITIONING WORK SHALL BE FURNISHED AND INSTALLED BY THIS SUBCONTRACTOR. MOTORS SHALL BE OF THE PROPER TYPES AND CAPACITIES FOR THEIR RESPECTIVE SERVICES. EXCEPT WHERE OTHERWISE SPECIFICALLY CALLED FOR, MOTOR STARTING AND CONTROLLING DEVICES SHALL BE FURNISHED, INSTALLED AND WIRED BY THIS SUBCONTRACTOR. ELECTRIC SERVICE LINES TO MOTOR CIRCUIT SWITCHES AND STARTERS WILL BE FURNISHED AND INSTALLED UNDER ANOTHER DIVISION.
3. **ELECTRIC STARTERS:** EACH MOTOR, EXCEPT AS NOTED, SHALL BE PROVIDED WITH A COMBINATION FUSED ACROSS-THE-LINE MAGNETIC STARTER WITH HOA (HAND-OFF-AUTOMATIC) SWITCH MOUNTED ON COVER. FURNISH MANUALLY OPERATED MOTOR STARTERS OF THE PROPER SIZE FOR ALL MOTORS LESS THAN 1/2 HP (HORSEPOWER) WHICH ARE NOT AUTOMATICALLY CONTROLLED. EACH MANUALLY CONTROLLED STARTER SHALL BE EQUIPPED WITH HEATERS PROPERLY SIZED TO PROTECT MOTOR. STARTERS FOR MOTORS 175 WATTS OR LESS SHALL CONSIST OF A SNAP SWITCH WITH THERMAL OVERLOAD PROTECTION WHERE SUCH PROTECTION IS NOT AN INTEGRAL PART OF THE MOTOR. SIZE OF MOTORS ARE NOT ACCEPTABLE. MAGNETIC STARTERS FOR ALL MOTORS SHALL HAVE THERMAL OVERLOAD AND LOW VOLTAGE PROTECTION IN ALL THREE PHASES. INCLUDE A CONTROL TRANSFORMER FOR EACH STARTER 1/2 HP AND ABOVE TO PROVIDE REQUIRED CONTROL POWER VOLTAGE. ALL STARTERS SHALL HAVE PROVISIONS FOR PADLOCKING IN AN OPEN POSITION. WHEN USED, FUSES SHALL BE FUSETRONS. STARTERS SHALL BE PROVIDED WITH FUSES FOR PROTECTION OF CONTROL CIRCUITS. ALL STARTERS SHALL BE MOUNTED IN NEMA 1 (NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION) ENCLOSURES EXCEPT FOR THOSE MOUNTED OUTDOORS, WHICH SHALL BE IN NEMA 4 ENCLOSURES.
4. **FILTERS:** FILTERS SHALL BE FARR OR AAF, AS SCHEDULED ON DRAWINGS. FILTERS SHALL BE UL LISTED C, CLASS 2, AND RATED AT AN AVERAGE EFFICIENCY OF MERV 7-8 (25-30%) PER ASHRAE 52.5. FILTER SHALL BE UL LISTED. DO NOT OPERATE SYSTEMS WITHOUT DESIGN FILTERS. PROVIDE SPARE SET OF FILTERS AND INSTALL SPARE FILTERS BEFORE BALANCING.
5. **FANS:** FANS SHALL HAVE THEIR AIR PERFORMANCE RATED IN ACCORDANCE WITH AMCA (AIR MOVEMENT CONTROL ASSOCIATION) AND SHALL BE LICENSED TO BEAR THE AMCA SEAL. PROVIDE FANS WITH SCHEDULED ACCESSORIES. ACCEPTABLE MANUFACTURERS FOR CENTRIFUGAL FANS: GREENHECK, COOK, NEW YORK BLOWER, BUFFALO, OR BARRY.
6. **HEAT PUMP UNIT & CONDENSING UNIT:** PROVIDE COILS WITH INTEGRAL SUBCOOLING AND CASING WITH STAND. COILS SHALL BE ALUMINUM PLATE FINNS ON COPPER TUBES (LEAK TESTED 150 PSIG, PRESSURE TESTED 420 PSIG). FANS SHALL BE DIRECT DRIVE PROPELLER WITH FAN GUARD. FAN SHAFT AND BLADES SHALL BE CORROSION PROTECTED. HEAD PRESSURE CONTROL SHALL BE BY FAN CYCLING. COMPRESSOR SHALL BE HERMETIC WITH EXTERNAL SPRING ISOLATORS AND UNLOAD IN RESPONSE TO SUCTION PRESSURE IN STEPS FOR PARTIAL LOAD OPERATION. ACCEPTABLE MANUFACTURERS: TRANE, CARRIER, JCI.
7. **FAN COIL UNIT:** UNITS SHALL HAVE GALVANIZED STEEL CABINET WITH FIBERGLASS INTERNAL LINER AND SERVICE PANELS. FAN SHALL BE CENTRIFUGAL FORWARD CURVE, STATICALLY AND DYNAMICALLY BALANCED, AND HAVE PERMANENTLY LUBRICATED OR BALL BEARING SHAFT BEARINGS. WATER OR DX COILS SHALL BE COPPER TUBES MECHANICALLY BONDED TO ALUMINUM FINNS AND LEAK TESTED AT 350 PSIG. PROVIDE THERMOSTAT, 1" MERV 7 DISPOSABLE FILTERS, THREE (3) SPEED MOTOR WITH SPEED SWITCH AND 18 GAUGE STEEL DRAIN PAN UNDER COILS. ACCEPTABLE MANUFACTURERS: TRANE, CARRIER, JCI.
8. **AIR DEVICES:** AIR DEVICES SHALL BE AS SCHEDULED. EXPOSED SCREWS SHALL BE THE FINISHING TYPE AND PAINTED TO MATCH THE AIR DEVICE. SQUARE TO ROUND ADAPTORS SHALL BE PROVIDED WHERE REQUIRED. AIR DEVICES SHALL BE FINISHED WITH WHITE BAKED ENAMEL UNLESS NOTED OTHERWISE, SECURED TO T-BAR CEILINGS WHERE APPLICABLE. ACCEPTABLE MANUFACTURERS: TITUS, METALAIR, PRICE, KRUEGER.
9. **VIBRATION ISOLATION:** PROVIDE VIBRATION ISOLATION FOR EACH PIECE OF ROTATING OR PISTON DRIVEN MECHANICAL EQUIPMENT SHOWN ON THE DRAWINGS AND SCHEDULES. ISOLATION COMPONENTS SHALL BE SUPPLIED BY A SINGLE MANUFACTURER - MASON INDUSTRIES OR KINETICS. TYPES OF ISOLATORS, REQUIRED DEFLECTIONS, AND INSTALLATION PRACTICES SHALL BE IN STRICT ACCORDANCE WITH THE INSTALLATION INSTRUCTIONS OF THE

- VIBRATION ISOLATION MANUFACTURER.
10. **LOUVER:** PROVIDE MIAMI-DADE QUALIFIED, WIND-DRIVEN RATED, LOUVER WITH FIXED, DRAINABLE BLADES, EXTRUDED ALUMINUM CONSTRUCTION, WITH BIRDSCREEN, KYNAR FINISH, COLOR TO BE SELECTED BY ARCHITECT, EQUAL TO GRENHECK MODEL EHH-601D. SEE ARCHITECTURAL PLANS FOR SIZE.
- I. ATC (AUTOMATIC TEMPERATURE CONTROLS)**
1. AUTOMATIC TEMPERATURE CONTROLS SHALL BE ELECTRONIC/ELECTRIC AND SHALL BE DESIGNED, FURNISHED AND INSTALLED BY A QUALIFIED TEMPERATURE CONTROL CONTRACTOR.
2. INDIVIDUAL CONTROL COMPONENTS MAY NOT BE SHOWN ON CONTRACT DOCUMENTS, BUT ATC CONTRACTOR SHALL SUPPLY COMPONENTS AND CONTROL WIRING NECESSARY FOR A COMPLETE OPERABLE SYSTEM. ATC CONTRACTOR SHALL BE RESPONSIBLE FOR SYSTEM COMPONENTS, WHETHER WORK IS SUBCONTRACTED OR NOT. CONTROL VALVES AND DAMPER ACTUATORS SHALL BE ELECTRICALLY ACTUATED.
3. MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL, IN ACCORDANCE WITH NEC AND THE ELECTRICAL SPECIFICATIONS FOR THIS PROJECT, CONDUIT, WIRE, JUNCTION BOXES, THERMOSTAT BACK BOXES, CIRCUIT BREAKERS AND CONTROL TRANSFORMERS REQUIRED FOR A FULLY OPERATIONAL ATC SYSTEM.
4. SUBMIT SHOP DRAWINGS FOR TEMPERATURE CONTROL WIRING, LOCATION OF DEVICES AND INSTALLATION DATA FOR REVIEW PRIOR TO INSTALLATION.
5. DUCT MOUNTED SMOKE DETECTORS SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR.
6. INSTALLED AUTOMATIC TEMPERATURE CONTROLS SHALL ACCOMPLISH THE FOLLOWING SEQUENCE OF CONTROLS:
- 6.1. HEAT PUMP SYSTEMS, FC-1/HP-1 & FC-2/HP-2: PROVIDE WALL-MOUNTED, PROGRAMMABLE THERMOSTAT PROVIDING 7-DAY/24-HOUR PROGRAMMING CAPABILITY. THERMOSTAT SHALL BE CAPABLE OF AUTOMATIC CHANGEOVER. PROVIDE DUCT-MOUNTED SMOKE DETECTOR IN SUPPLY DUCT, UPSTREAM OF ALL TAKE-OFFS, AND IN THE RETURN DUCT, UPSTREAM OF OUTSIDE AIR INTAKE. UPON DETECTION OF SMOKE, FAN COIL UNIT SHALL SHUTDOWN AND SHALL SIGNAL THE BUILDING FIRE ALARM SYSTEM.
- 6.2. AIR CONDITIONING SPLIT SYSTEM, FC-IT/CU-IT: PROVIDE FACTORY-FURNISHED THERMOSAT AND CONTROLS.
- 6.3. EXHAUST FAN, EF-1: PROVIDE ON-OFF SWITCH, MOUNTED AT FAN STARTER.

PART 3 - EXECUTION

- A. GENERAL**
1. ELECTRICAL CHARACTERISTICS OF MECHANICAL EQUIPMENT SHALL BE VERIFIED WITH ELECTRICAL DRAWINGS PRIOR TO ORDER RELEASE. ADDITIONAL ELECTRICAL WORK RESULTING FROM EQUIPMENT SUBSTITUTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. ELECTRICAL CONTRACTOR SHALL PROVIDE STARTERS AND CONTROLLERS FOR MOTORS. WHERE NOT PROVIDED BY ELECTRICAL CONTRACTOR, MECHANICAL CONTRACTOR SHALL PROVIDE STARTERS AND CONTROLLERS AS SPECIFIED IN PART 2. MOTORS 1 HP AND ABOVE SHALL BE PREMIUM EFFICIENCY. ALL DRIVES SHALL BE PROVIDED WITH INTEGRAL LOCKING DISCONNECT.
3. COORDINATE ROUTING OF DUCTWORK AND PIPING TO MAINTAIN CLEARANCES ABOVE ELECTRICAL PANELS AND EQUIPMENT PER NEC REQUIREMENTS.
4. COORDINATE CHASE, SLEEVE AND SLAB BLOCK-OUT REQUIREMENTS BEFORE CONCRETE IS POURED OR BLOCK IS SET.
5. MAINTAIN OCCUPANCY AND FIRE WALL SEPARATION INTEGRITY AS REQUIRED. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS OF OCCUPANCY/FIRE WALL SEPARATIONS AND SPECIFIC DETAILS FOR CONSTRUCTION. PROVIDE NECESSARY FIRE AND FIRE/SMOKE DAMPERS, ACCESS DOORS, CAULKING, ETC FOR APPROVED INSTALLATION.
6. PENETRATIONS OF FIRE-RATED WALLS OR FLOORS BY PIPE OR DUCT SHALL BE SEALED BY A FIRESTOPPING SYSTEM UL LISTED FOR THE APPLICATION. INSTALL PENETRATION SEAL MATERIALS IN ACCORDANCE WITH PRINTED INSTRUCTION OF THE UL FIRE RESISTANCE DIRECTORY AND MANUFACTURER'S INSTRUCTIONS. FIRESTOPPING SYSTEM SHALL BE AS SPECIFIED BY ARCHITECT OR EQUAL TO 3M FIRE BARRIER. FIRESTOPPING MATERIAL SHALL BE CAULK OR PUTTY TYPE.
7. PENETRATIONS THROUGH STRUCTURE, STUDS, OR FIRE-RATED WALLS SHALL BE MADE OVERSIZED TO PREVENT CONTACT.
8. UNDER NO CIRCUMSTANCE IS THE FIREPROOFING OF THE BUILDING STRUCTURE (WHERE APPLICABLE) TO BE REMOVED FOR THE INSTALLATION OF HANGERS, SUPPORTS, DUCTWORK AND PIPING. CLAMPING DEVICES SHALL NOT BE USED WHERE THE STRUCTURE IS FIRE PROOFED. IF FIRE PROOFING IS DAMAGED, IT SHALL BE REPAIRED TO THE SATISFACTION OF THE BUILDING OWNER.
9. STRUCTURAL STEEL SUPPORTS, HANGER BRACKETS, ETC REQUIRED FOR SUPPORT SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR. THE WELDS AND EDGES OF BRACKETS SHALL BE FILED OR GROUND SMOOTH FOR PAINTING. HANGERS SHALL BE STEEL ANGLE IRON, STEEL CHANNEL, OR STEEL ROD USED WITH APPROVED CLAMPS, INSERTS, ETC. SUPPORTS, HANGERS, BRACKETS, ETC SHALL BE AS APPROVED BY THE ENGINEER. NO PERFORATED STRAP, CHAIN LINK, OR WIRE MAY BE USED. HANGERS SHALL BE GALVANIZED OR PAINTED WITH TWO COATS OF RUSTOLEUM PAINT BEFORE THEIR INSTALLATION.
10. WHERE PIPES OR CONDUITS PASS THROUGH WALLS, FLOORS, OR CEILINGS IN FINISHED AREAS, THEY SHALL BE FURNISHED WITH ESCUTCHEON PLATES (COLOR PER ARCHITECT OR INTERIOR DESIGNER).
11. DUCTWORK, PIPING AND CONDUIT PENETRATIONS THROUGH SOUND RATED PARTITIONS SHALL BE SEALED WITH ACOUSTICAL CAULK.
12. WATER PROOFING AND FLASHING OF PIPE PENETRATIONS THROUGH EXTERIOR WALL AND ROOF SHALL BE BY THE CONTRACTOR. CONTRACTOR SHALL COORDINATE LOCATIONS AND METHODS WITH GENERAL CONTRACTOR OR OTHER DIVISIONS PRIOR TO CONSTRUCTION OF ROOF DECK.
13. MECHANICAL EQUIPMENT SHALL BE SECURED AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE SECTIONS OF THE ADOPTED STATE BUILDING AND MECHANICAL CODE.

14. CONTRACTOR SHALL PROVIDE HOUSEKEEPING PADS, FOUNDATIONS, HANGERS, AND SUPPORTS FOR EQUIPMENT SUPPLIED OR INSTALLED UNDER THEIR WORK.
15. COORDINATE AND VERIFY ACTUAL APPROVED EQUIPMENT DIMENSIONS PRIOR TO POURING EQUIPMENT PADS. COORDINATE WITH VIBRATION ISOLATION AND SEISMIC RESTRAINT REQUIREMENTS.
16. PIPING AND DUCT CONNECTIONS TO AIR HANDLERS, FAN COILS, HEAT PUMPS, FANS, ETC SHALL BE MADE WITH FLEXIBLE CONNECTIONS. FLEXIBLE PIPE CONNECTIONS MAY BE OMITTED IF ROTATING/VIBRATING EQUIPMENT IS INTERNALLY ISOLATED. FLEXIBLE CONNECTIONS EXPOSED TO THE ENVIRONMENTAL ELEMENTS SHALL BE SHIELDED TO PREVENT DEGRADATION.
17. DRAIN PIPING FROM EQUIPMENT SHALL BE ROUTED SO AS NOT TO CREATE A TRIPPING HAZARD. COORDINATE ACTUAL DRAIN CONNECTIONS WITH PLUMBING SECTION. COORDINATE FLOOR SINK LOCATIONS ACCORDINGLY.
18. MECHANICAL EQUIPMENT SHALL BE IDENTIFIED WITH BAKELITE NAMEPLATES. COLOR CODING OF NAMEPLATES AND IDENTIFICATION INFORMATION SHALL BE COORDINATED WITH THE OWNER.
19. DUCTWORK SHALL BE IDENTIFIED WITH ADHESIVE BACKED PLASTIC DUCT MARKERS INDICATING DIRECTION OF AIRFLOW AND DUCT SERVICE (SUPPLY, RETURN, EXHAUST, ETC). LABELS SHALL BE MINIMUM 2-1/4" HIGH WITH 1-1/2" HIGH TEXT. LABELS FOR SUPPLY AND OUTSIDE AIR SHALL BE BLUE BACKGROUND WITH WHITE LETTERING. LABELS FOR EXHAUST, RELIEF, AND RETURN AIR SHALL BE GREEN BACKGROUND WITH WHITE LETTERING. WHERE USED IN EXISTING BUILDINGS, COLOR SCHEME SHALL MATCH EXISTING IDENTIFICATION MARKERS AND BE COORDINATED WITH OWNER. PROVIDE LABELS AT MAXIMUM 50'-0" INTERVALS, WHERE DUCTS ENTER INTO CONCEALED SPACES, AND ON EITHER SIDE OF OBSTRUCTIONS. UNLESS OTHERWISE DIRECTED BY OWNER OR ARCHITECT, LABELS SHALL NOT BE PROVIDED ON EXPOSED DUCTWORK IN FINISHED SPACES.
20. CORRIDOR SMOKE DETECTORS SHALL BE USED TO ACTIVATE DUCT-MOUNTED FIRE/SMOKE DAMPERS.
21. CEILING DIFFUSERS SHALL BE 3'-0" MINIMUM FROM CEILING MOUNTED SMOKE DETECTORS. COORDINATE WITH ELECTRICAL AND FIRE ALARM CONTRACTORS.
22. SECURE DIFFUSERS AND GRILLES TO T-BAR CEILINGS, WHERE APPLICABLE. SUBMIT SHOP DRAWING FOR APPROVAL PRIOR TO BEGINNING WORK.
23. PROVIDE 18" x 18" MINIMUM ACCESS DOOR IN INACCESSIBLE CEILINGS AND WALLS FOR EQUIPMENT REQUIRING ACCESS OR ADJUSTMENT INCLUDING UPSTREAM OF DUCT COILS. COORDINATE LOCATIONS AND SUBMIT TO ARCHITECT FOR APPROVAL PRIOR TO BEGINNING WORK.
24. OPEN END DUCTWORK SHALL BE COVERED WITH SCREEN PROTECTION HAVING OPENINGS THROUGH WHICH A 1/2" SPHERE CANNOT PASS. ATTACH SCREEN WITH ANGLE AROUND PERIMETER AND REINFORCE AT 24" ON CENTER.
25. MANUAL AIR VENTS SHALL BE PROVIDED AT HIGH POINTS OF HYDRONIC SYSTEMS. MANUAL AIR VENTS SHALL CONSIST OF A 3/8" BALL VALVE WITH THREADED PORTS.
26. INSTALL THERMOSTATS AND SENSORS AT MOUNTING HEIGHTS 4'-0" ABOVE FINISHED FLOOR IN ACCORDANCE WITH ADA (AMERICANS WITH DISABILITIES ACT) REQUIREMENTS. COORDINATE EXACT LOCATIONS IF FIELD WITH THE CONTRACTOR AND ARCHITECT.
27. DUCT EXTERNAL INSULATION IS NOT REQUIRED WHERE DUCT HAS ACOUSTICAL DUCT LINER. PROVIDE 12" OVERLAP OF EXTERNAL INSULATION AND INTERIOR LINER AT TRANSITION OF INSULATION TYPE.
28. ALL DUCTWORK, FITTINGS, EQUIPMENT, HANGERS, AND SUPPORTS LOCATED BELOW 7'-0" IN ALL MECHANICAL ROOMS, FAN ROOMS OR OTHER EQUIPMENT ROOMS SHALL BE PROVIDED WITH PADDING MATERIAL ON ALL HORIZONTAL AND VERTICAL CORNERS, EDGES, AND OTHER SURFACES WHICH MAY CAUSE INJURY OR OTHERWISE BE HAZARDOUS. PADDING MATERIAL SHALL BE MINIMUM 1" THICK ARMAFLEX SHEET INSULATION OR APPROVED EQUAL. MATERIAL SHALL HAVE FLAME SPREAD/SMOKE DEVELOPED INDEX OF 25/50 OR LESS. ATTACH TO SURFACE WITH COMPLETE ADHESIVE COVERAGE.
29. PROVIDE DUCT AND AIR TRANSITIONS TO EQUIPMENT AND EXISTING SYSTEMS AS REQUIRED.
30. CLEANING: AT THE CONCLUSION OF THE PROJECT THE CONTRACTOR SHALL CLEAN INTERIOR OF DUCTWORK, CLEAN AND FLUSH PIPING, CLEAN EXTERIOR SURFACE OF EQUIPMENT AND REMOVE CONSTRUCTION DEBRIS, TEMPORARY FACILITIES AND EQUIPMENT FROM THE WORK AREA.
- 30.1. DUCTWORK: ALL NEW DUCTWORK SHALL BE THOROUGHLY CLEANED SO THAT NO DIRT OR DUST SHALL BE DISCHARGED FROM DIFFUSERS, REGISTERS, OR GRILLES, WHEN SYSTEM IS OPERATED. WHERE NEW DUCTS CONNECT TO EXISTING DUCTWORK, CLEAN NEW DUCTS TO INSURE THAT DIRT AND DUST DOES NOT DISCHARGE THROUGHOUT OCCUPIED SPACES.
- 30.2. PIPING: AFTER WATER PIPING HAS BEEN PRESSURE TESTED AND APPROVED FOR TIGHTNESS, CLEAN AND FLUSH PIPING.
- 30.3. EQUIPMENT: AFTER COMPLETION OF PROJECT, CLEAN THE EXTERIOR SURFACE OF EQUIPMENT INCLUDED IN THIS SECTION.
- 30.4. WORK AREA: AFTER COMPLETION OF PROJECT, REMOVE ALL CONSTRUCTION DEBRIS, TEMPORARY FACILITIES AND EQUIPMENT FROM WORK AREA. CLEAN WORK AREA TO PERMIT OCCUPATION.
- B. TEST AND BALANCE**
- GENERAL**
1. PROVIDE QUALIFIED PERSONNEL, EQUIPMENT, APPARATUS AND SERVICES FOR START-UP, TESTING AND BALANCING OF MECHANICAL SYSTEMS, TO PERFORMANCE DATA SHOWN IN SCHEDULES, AS SPECIFIED, AND AS REQUIRED BY CODES, STANDARDS, REGULATIONS AND AUTHORITIES HAVING JURISDICTION INCLUDING CITY, TOWN OR PARISH INSPECTORS, OWNERS AND ARCHITECT. NOTE THAT SOME ATC (AUTOMATIC TEMPERATURE CONTROL) START-UP PROCEDURES REQUIRE THE COOPERATION OF THE BALANCING CONTRACTOR, THE EQUIPMENT MANUFACTURER'S REPRESENTATIVE AND THE ATC CONTRACTOR. ENSURE THAT ALL CONTRACTORS ARE PRESENT ON SITE DURING THE ENTIRE TIME THAT THESE PROCEDURES TAKE PLACE. NOTE THAT SOME PROCEDURES LISTED BELOW HAVE A DISTINCT ORDER OF PRECEDENCE. EXAMPLE: THE TESTING OF THE TEMPERATURE CONTROL SYSTEM SHALL NOT OCCUR UNTIL MAJOR PIECES OF MECHANICAL EQUIPMENT HAVE BEEN STARTED UP AND TESTING IS COMPLETE. ENSURE THAT ANY LISTED ORDERS OF PRECEDENCE FOR PROCEDURES

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4/24/2014



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St Bernard Parish Sheriff's Substation

47

Paris Road

DATE: 04/24/14
PROJECT NO.: 01-09-1082-02

REVISIONS:

No.	Date	Description

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ARE FOLLOWED.

2. THE SUBCONTRACTOR SHALL PROCURE THE SERVICES OF AN INDEPENDENT AIR BALANCE AND TESTING AGENCY, AS APPROVED BY THE ARCHITECT, WHICH SPECIALIZES IN THE BALANCING AND TESTING OF HVAC SYSTEMS. TO BALANCE, ADJUST AND TEST WATER CIRCULATING AND AIR MOVING EQUIPMENT, AIR DISTRIBUTION AND EXHAUST SYSTEMS FOR ENTIRE BUILDING. THE TESTING AGENCY SHALL PROVIDE PROOF OF HAVING SUCCESSFULLY COMPLETED AT LEAST FIVE (5) PROJECTS OF SIMILAR SIZE AND SCOPE, AND SHALL BE A CERTIFIED MEMBER OF AABC (ASSOCIATED AIR BALANCE COUNCIL). THE HVAC SUBCONTRACTOR SHALL AWARD THE TAB CONTRACT TO THE SELECTED AGENCY AS SOON AS POSSIBLE AFTER RECEIPT OF THE CONTRACT, TO ALLOW THE AIR BALANCE AGENCY TO SCHEDULE THIS WORK IN COOPERATION WITH OTHER TRADES AND COMPLY WITH THE COMPLETION DATE. INSTRUMENTS USED SHALL BE CALIBRATED WITHIN SIX (6) MONTHS OF BALANCING AND MAINTAINED IN GOOD WORKING ORDER. IF REQUESTED, THE TESTS SHALL BE CONDUCTED IN THE PRESENCE OF THE ARCHITECT AND/OR THE REPRESENTATIVE.
3. INCLUDE AN EXTENDED WARRANTY OF SIX (6) MONTHS AFTER ACCEPTANCE AND OCCUPANCY, DURING WHICH TIME THE ARCHITECT, AT THEIR DISCRETION, MAY REQUEST A RECHECK OR RESETTING OF ANY OUTLET, SUPPLY AIR FAN OR EXHAUST FAN AS LISTED IN TEST REPORT. PROVIDE TECHNICIANS TO ASSIST IN MAKING ANY TESTS REQUIRED.
4. TESTING AND BALANCING SHALL NOT BEGIN UNTIL SYSTEM HAS BEEN COMPLETED AND IS IN FULL WORKING ORDER WITH THE SPECIFIED FILTERS IN PLACE. CONDITION OF THE FILTERS AT THE TIME SHALL BE SUCH THAT THE DIRT HOLDING CAPACITY IS NOT EXCEEDED. PLACE ALL SYSTEMS AND EQUIPMENT INTO FULL OPERATION AND CONTINUE THE OPERATION DURING EACH WORKING DAY OF TESTING AND BALANCING. SUBMIT COPIES OF DATA FOR THE TESTING AND BALANCING FOR THE REVIEW OF THE ARCHITECT. TESTING AND BALANCING SHALL BE COMPLETE AND REVIEWED BY THE ARCHITECT PRIOR TO ACCEPTANCE OF THE SYSTEM BY THE OWNER. NOTIFY ARCHITECT AND AUTHORITIES INVOLVED AT LEAST TWO (2) WEEKS BEFORE START-UP TESTING AND BALANCING BEGINS.
5. DO NOT COVER OR CONCEAL WORK BEFORE TESTING, INSPECTION AND OBTAINING APPROVAL.
6. INSTRUMENTS FOR TESTING AND BALANCING SHALL HAVE BEEN CALIBRATED WITHIN ONE (1) MONTH PRIOR TO TESTING AND BALANCING. CALIBRATION SHALL BE TRACEABLE TO NBS (NATIONAL BUREAU OF STANDARDS).
7. LEAKS, DAMAGE AND DEFECTS DISCOVERED OR RESULTING FROM START-UP, TESTING AND BALANCING SHALL BE REPAIRED OR REPLACED TO LIKE-NEW CONDITION WITH ACCEPTABLE MATERIALS. TESTS SHALL BE CONTINUED UNTIL SYSTEM OPERATES WITHOUT ADJUSTMENTS OR REPAIRS.
8. REPLACEMENT OF ADJUSTABLE PULLEYS, ADDITIONAL BALANCING DAMPERS, PRESSURE TAPS, BALANCING VALVES, COCKS AND FITTINGS, ETC., REQUIRED TO EFFECT PROPER AIR AND WATER BALANCE SHALL BE FURNISHED AND INSTALLED BY THE HVAC SUBCONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
9. FOR EACH PIECE OF EQUIPMENT, COPY NAMEPLATE DATA AND INCLUDE IN REPORT.
10. PROVIDE CAPACITY AND PERFORMANCE OF EQUIPMENT BY FIELD TESTING. INSTALL EQUIPMENT AND INSTRUMENTS REQUIRED FOR TESTING, THERMO-WELLS AND GAUGE CONNECTIONS AT NO ADDITIONAL COST TO OWNER.
11. QUALIFIED REPRESENTATIVE OF EQUIPMENT MANUFACTURER SHALL BE PRESENT AT TEST.
12. START-UP, TESTING AND BALANCING PROCEDURES OUTLINED BELOW ARE THE MINIMUM EFFORT REQUIRED FOR THE PROJECT. CONTRACTOR SHALL USE ANY ADDITIONAL PROCEDURES FELT NECESSARY TO PROPERLY START-UP, TEST AND BALANCE THE SYSTEM(S).

EQUIPMENT START-UP

1. START-UP ALL EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND WITH MANUFACTURER'S REPRESENTATIVE PRESENT. COMPLETE THE MANUFACTURER'S START-UP CHECKLIST TO CERTIFY TO THE ARCHITECT THAT START-UP OF THE ABOVE PIECES OF EQUIPMENT HAS SUCCESSFULLY BEEN ACCOMPLISHED. COPY MULTIPLE CHECKLISTS AS REQUIRED. EDIT INAPPROPRIATE ITEMS AS REQUIRED.

ATC TESTING

1. START-UP TEMPERATURE CONTROL SYSTEM SO THAT ALL SEQUENCES OF OPERATION CALLED FOR IN ARCHITECTS DRAWINGS AND SPECIFICATIONS OPERATE PROPERLY. ENSURE THAT ALL CONTROL COMPONENTS ARE PROPERLY CALIBRATED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. SEE THAT ALL SOFTWARE, INCLUDED WITH CONTROL SYSTEM, IS FULLY DEBUGGED. FOR FURTHER REQUIREMENTS SEE ATC PARAGRAPH OF THESE SPECIFICATIONS. ATC CONTRACTOR SHALL PROVIDE A TESTING CHECKLIST VERIFYING ALL SEQUENCE OF CONTROLS AS DESCRIBED ON DRAWINGS, TO PROVE SYSTEM FUNCTIONALITY.

TEST AND BALANCE -- AIR SYSTEMS

1. PERFORM THE FOLLOWING TESTS AND BALANCE ALL AIR SYSTEMS IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS: ADJUST FAN RPM (REVOLUTIONS PER MINUTE) TO SPECIFIED AIR DELIVERY REQUIREMENTS, RECORD MOTOR FULL LOAD RATING AND ACTUAL AMPERES, RECORD SYSTEM STATIC PRESSURES, SUCTION AND DISCHARGE, ADJUST MAIN SUPPLY AND RETURN AIR DUCTS TO PROPER DESIGN CFM (CUBIC FEET PER MINUTE) AS INDICATED ON DRAWINGS, ADJUST EACH DIFFUSER, GRILLE AND REGISTER TO WITHIN -5% TO +10% OF DESIGN REQUIREMENTS. READINGS AND TESTS OF DIFFUSERS, GRILLES, AND REGISTERS SHALL INCLUDE REQUIRED FPM VELOCITY AND ACTUAL FPM VELOCITY, REQUIRED CFM AND ACTUAL CFM AFTER ADJUSTMENTS, A FLOW DIAGRAM SHOWING QUANTITIES AND TEMPERATURES AT ALL VITAL POINTS THROUGHOUT THE SYSTEM, INCLUDING FRESH AIR, RETURN AIR, MIXED AIR, COOLING COIL DISCHARGE, FAN DISCHARGE, AND RE-HEAT DISCHARGE. WHERE POSSIBLE, ALL PERCENTAGES OF AIR SHOULD BE VERIFIED BY TAKING CORRESPONDING TEMPERATURES OF THE QUANTITIES BEING MIXED, MAKE PITOT TUBE TRAVERSE OF MAIN SUPPLY DUCTS AND OBTAIN DESIGN CFM AT FANS, ADJUST SYSTEM FOR DESIGN RECIRCULATED AIR CFM, ADJUST SYSTEM FOR DESIGN OUTSIDE AIR CFM, RECORD ENTERING AIR TEMPERATURES. DB (DRY BULB) HEATING AND COOLING, WB (WET BULB) COOLING, RECORD LEAVING AIR TEMPERATURES. DB HEATING AND COOLING, WB COOLING. IN COOPERATION WITH THE CONTROL MANUFACTURER'S REPRESENTATIVE, SET ADJUSTMENTS OF AUTOMATICALLY OPERATED DAMPERS TO OPERATE AS SPECIFIED, RECORD ON WHAT CYCLE SYSTEM WAS BALANCED. ADJUSTMENT SHOULD BE MADE IN DAMPER AND FAN SPEED SETTINGS SO AS TO MAINTAIN A CONSTANT TOTAL FAN CAPACITY WHEN THE SYSTEM MODULATES FROM FULL FRESH AIR TO FULL RETURN AIR, FROM HEATING TO COOLING, PRIOR TO THE START OF BALANCING, CHECK THE ROTATION OF ALL FANS. VERIFY THAT ALL FIRE DAMPERS ARE OPEN. ALL FILTERS MUST BE CHECKED TO SEE IF THEY EXCEED THE RECOMMENDED DIRT HOLDING CAPACITY. IF DIRTY, THEY SHALL BE REPLACED BY THE SUBCONTRACTOR, BEFORE COMMENCING BALANCING SO AS TO AVOID EXCESSIVE RESISTANCE TO THE SYSTEM. MAKE NECESSARY CHANGES IN FAN SPEED TO OBTAIN DESIGN SYSTEM CONDITIONS, AND RE-ALIGN BELTS WHEN NECESSARY. ADDITIONAL

DAMPERS, SPLITTERS, TURNING VANES, TURBULENCE VANES, AND OTHER DEVICES NOT SPECIFICALLY INDICATED ON THE DRAWINGS, BUT WHICH ARE NECESSARY TO OBTAIN THE CORRECT AIR BALANCE, SHALL BE INSTALLED BY THE SUBCONTRACTOR, DUCTWORK SHALL BE TESTED AS SPECIFIED IN PART 2 SECTION, "DUCTWORK".

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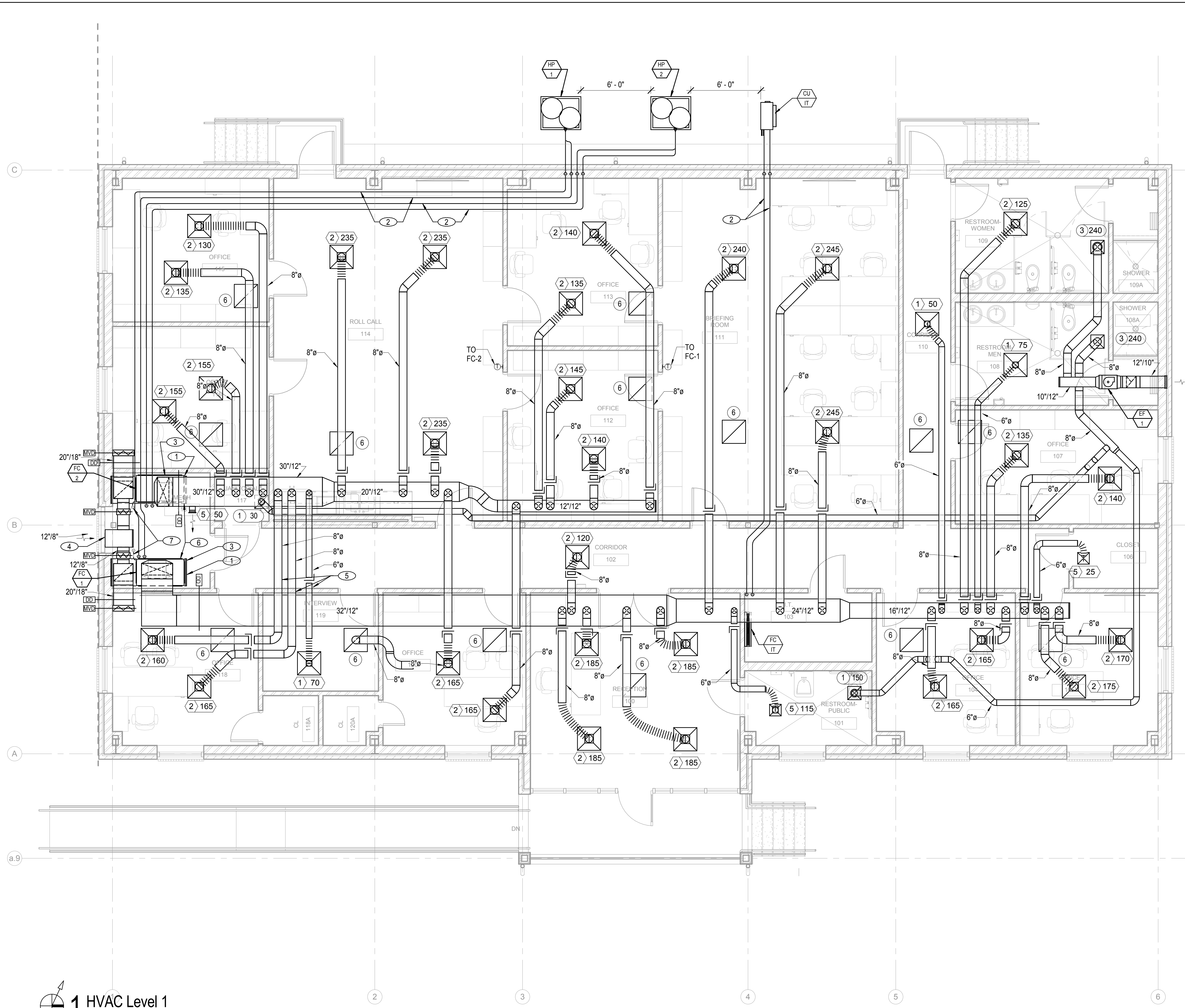
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NOTES

- 1 MAINTAIN MANUFACTURER'S MINIMUM CLEARANCES FOR FILTER REMOVAL.
- 2 SIZE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS.
- 3 24" TALL x 12" LONG x UNIT DEPTH PLENUM BOX ON FLOOR. FABRICATE PLENUM BOX WITH ANGLE IRON FRAME TO SUPPORT THE WEIGHT OF THE UNIT. VERIFY WEIGHT WITH MANUFACTURER.
- 4 PROVIDE 12" x 18" SHEET METAL PLENUM AT ACTIVE SECTION OF LOUVER, AT APPROXIMATELY 9'-4" TO TOP OF PLENUM. BLANK OFF UNUSED PORTION OF LOUVER WITH SHEET METAL AND INSULATE.
- 5 INSTALL HP-1, HP-2, AND CU-IT PER MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS FOR PROPER CLEARANCES FOR OPERATION AND MAINTENANCE.
- 6 PROVIDE 3" TALL SHEET METAL SAFE PAN BENEATH FAN COIL UNITS, 3" LARGER THAN UNIT FOOTPRINT ON ALL SIDES.
- 7 PROVIDE CONDENSATE DRAIN LINE, ROUTE TO FLOOR DRAIN IN MECHANICAL ROOM.



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

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HVAC Level 1 Plan
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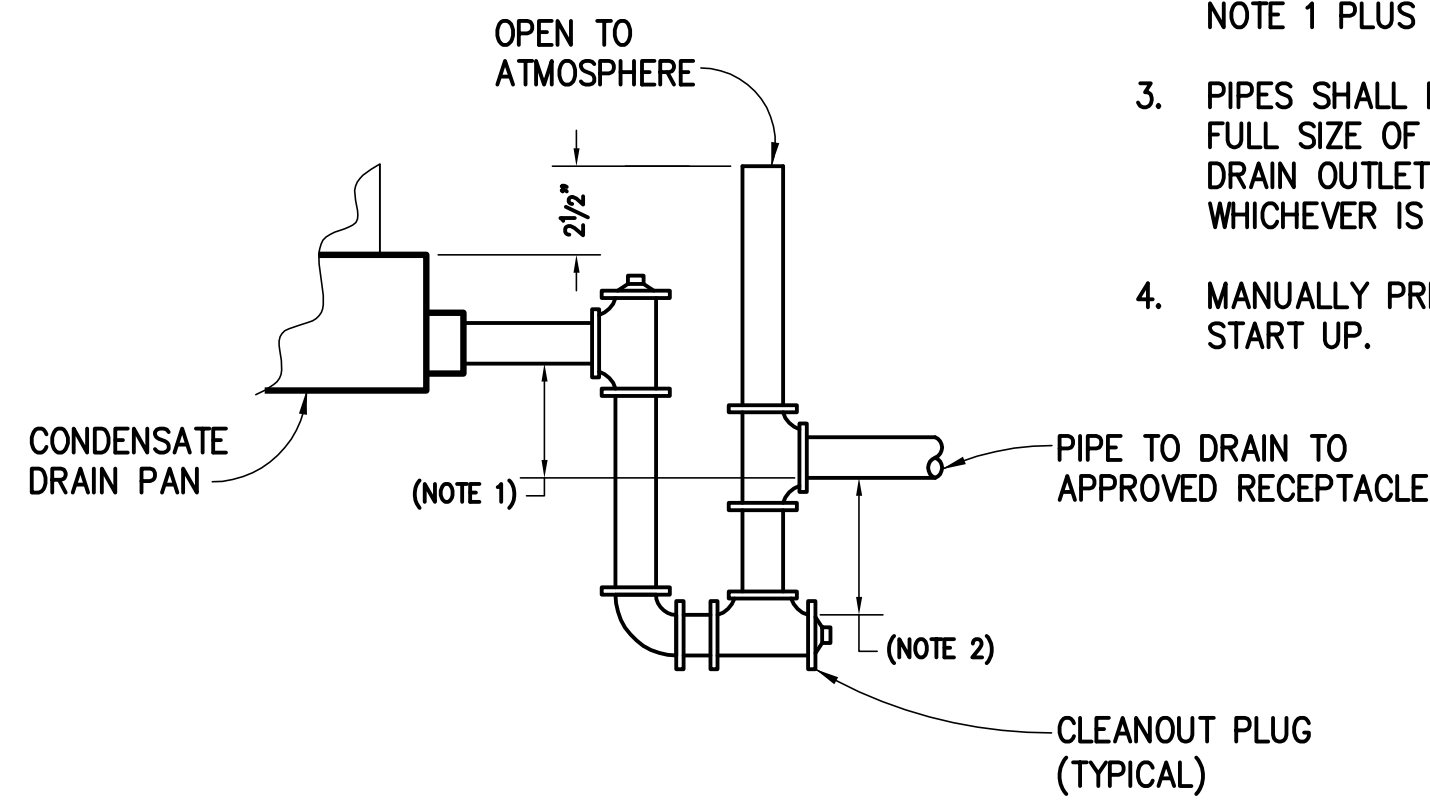
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4/24/2014 11:05:27 AM

#14.0078

NOTICE:

1. THIS DIMENSION IN INCHES MUST BE GREATER THAN THE MAXIMUM FAN SUCTION STATIC PRESSURE IN INCHES WATER COLUMN.
2. THIS DIMENSION IN INCHES MUST BE GREATER THAN 1/2 OF DIMENSION IN NOTE 1 PLUS 1".
3. PIPES SHALL BE MINIMUM 1-1/4" OR FULL SIZE OF UNIT CONDENSATE DRAIN OUTLET CONNECTION, WHICHEVER IS LARGER.
4. MANUALLY PRIME TRAP BEFORE START UP.

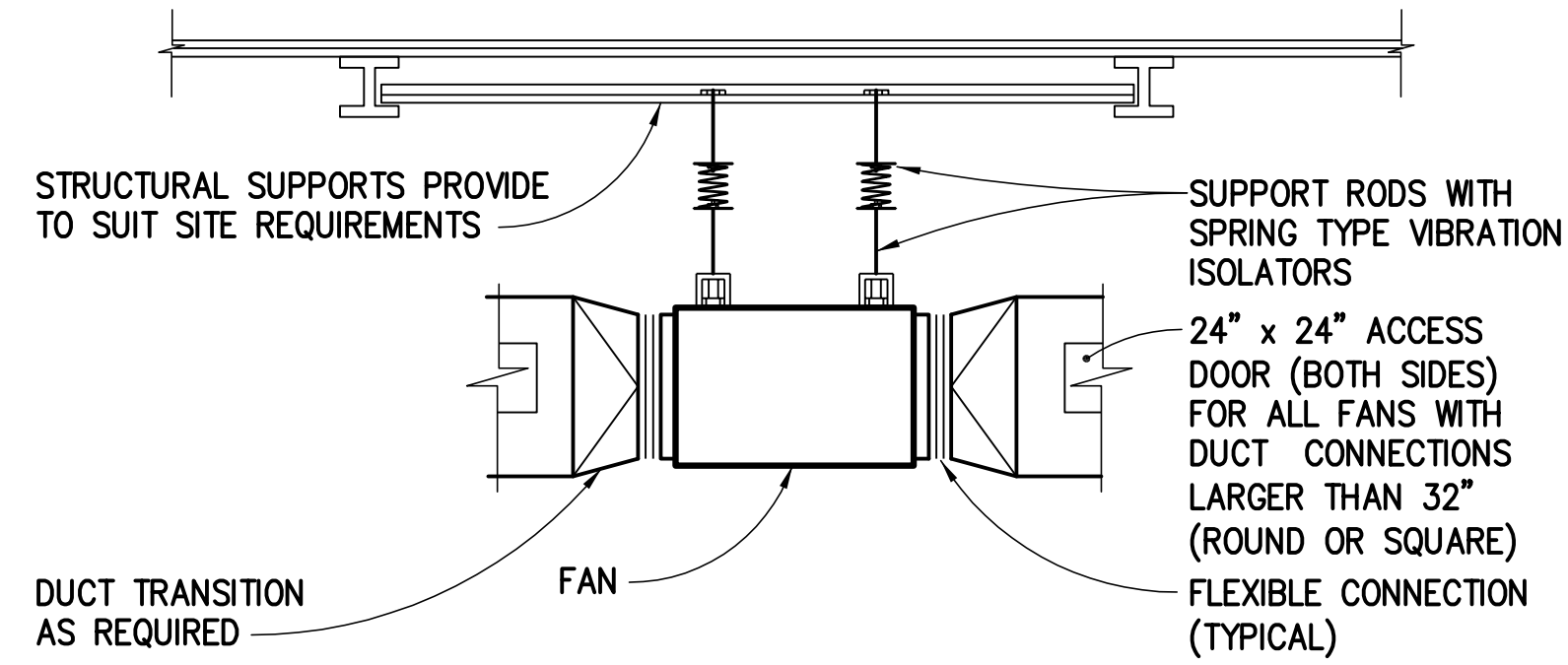


CONDENSATE DRAIN (DRAW THROUGH) DETAIL

NO SCALE

1

M6.01



IN-LINE FAN DETAIL

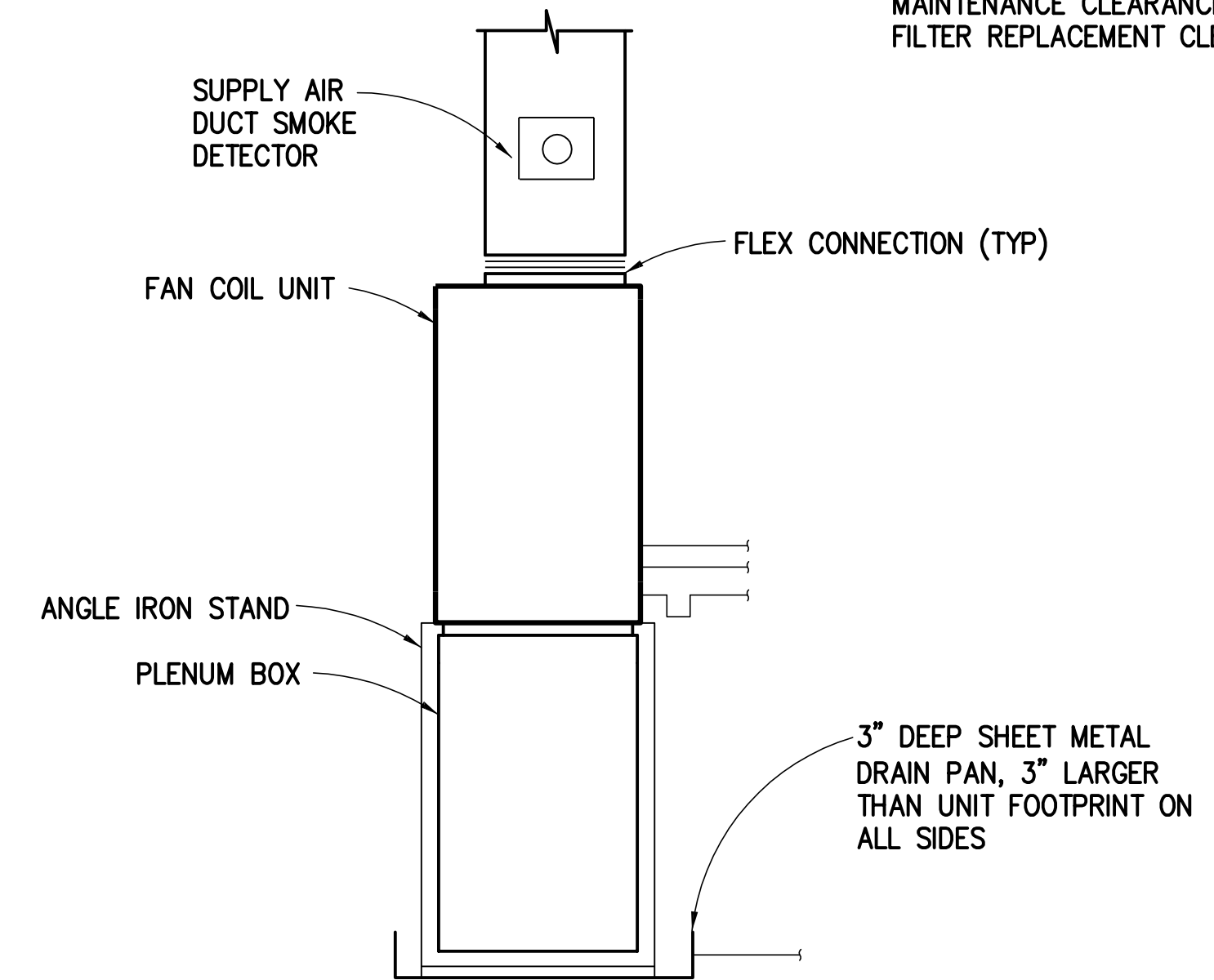
NO SCALE

2

M6.01

NOTICE:

1. COORDINATE SUPPORT, HANGER LOCATIONS AND ADJACENT WORK TO ALLOW MANUFACTURER'S REQUIRED MAINTENANCE CLEARANCES AND FILTER REPLACEMENT CLEARANCES.



FAN COIL MOUNTING DETAIL

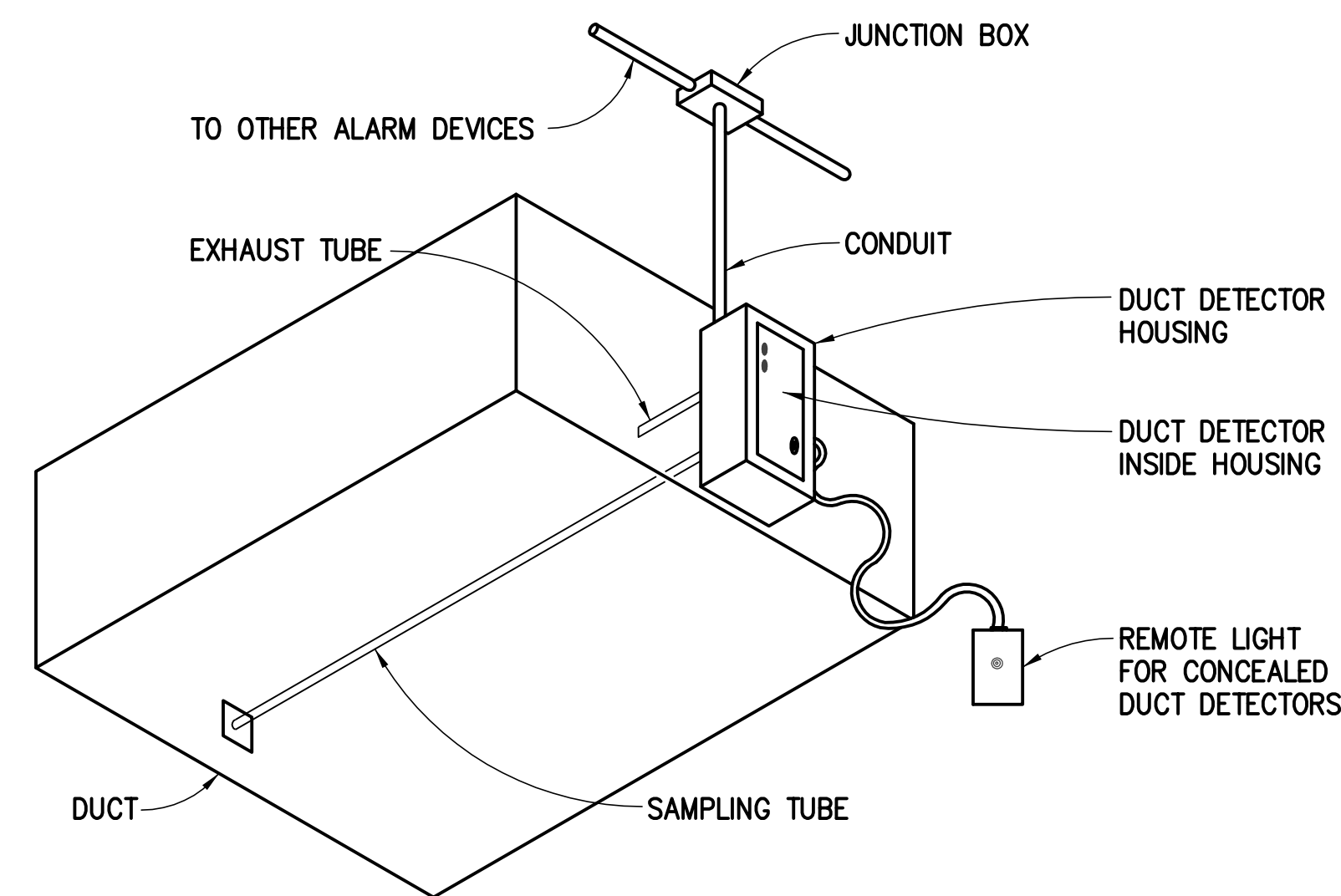
NO SCALE

3

M6.01

NOTICE:

1. MOUNT DUCT DETECTOR IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.



DUCT MOUNTED SMOKE DETECTOR

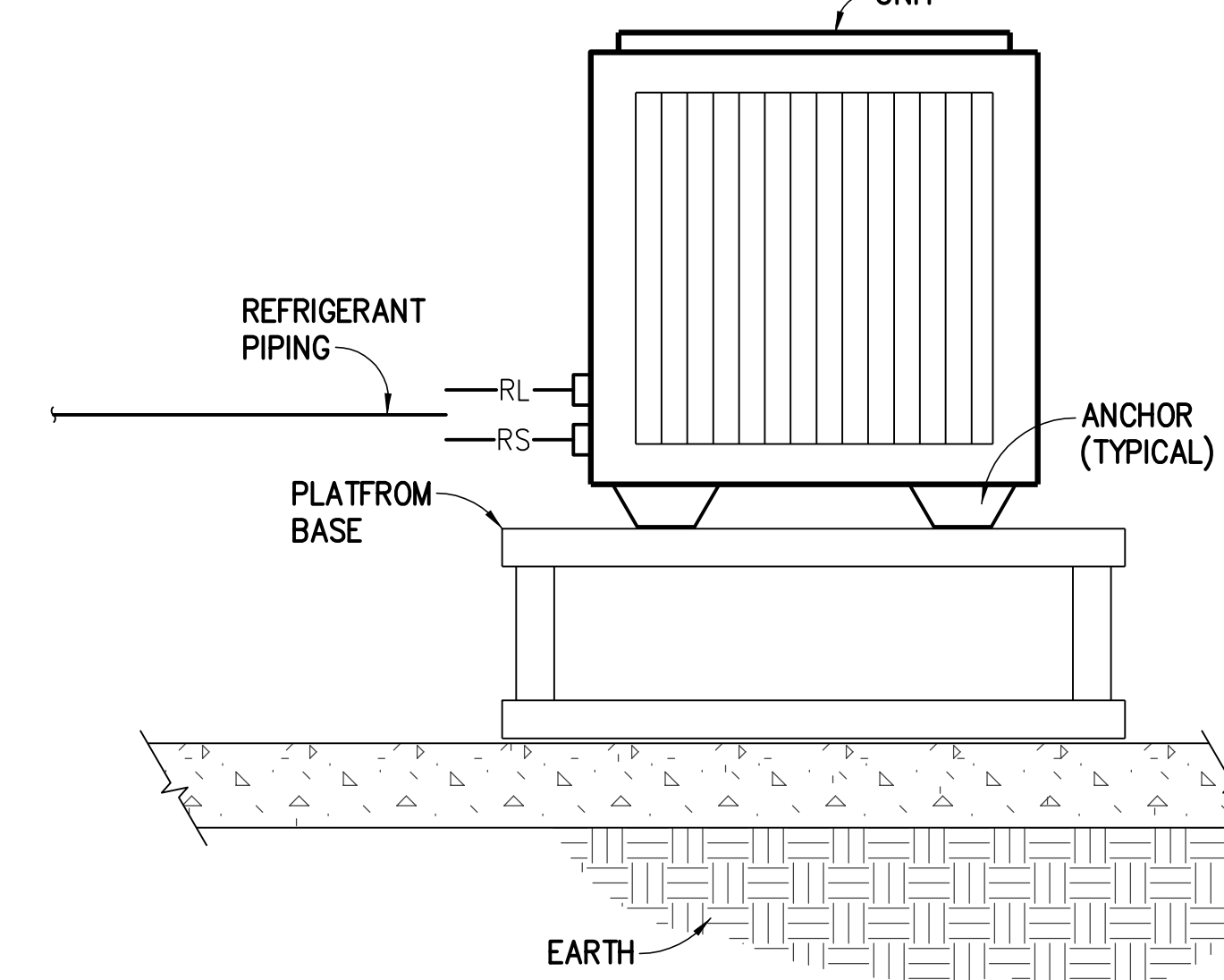
NO SCALE

4

M6.01

NOTICE:

1. PROVIDE 4" CONCRETE BASE FOR EACH CONDENSING UNIT.



HEAT PUMP MOUNTING DETAIL

NO SCALE

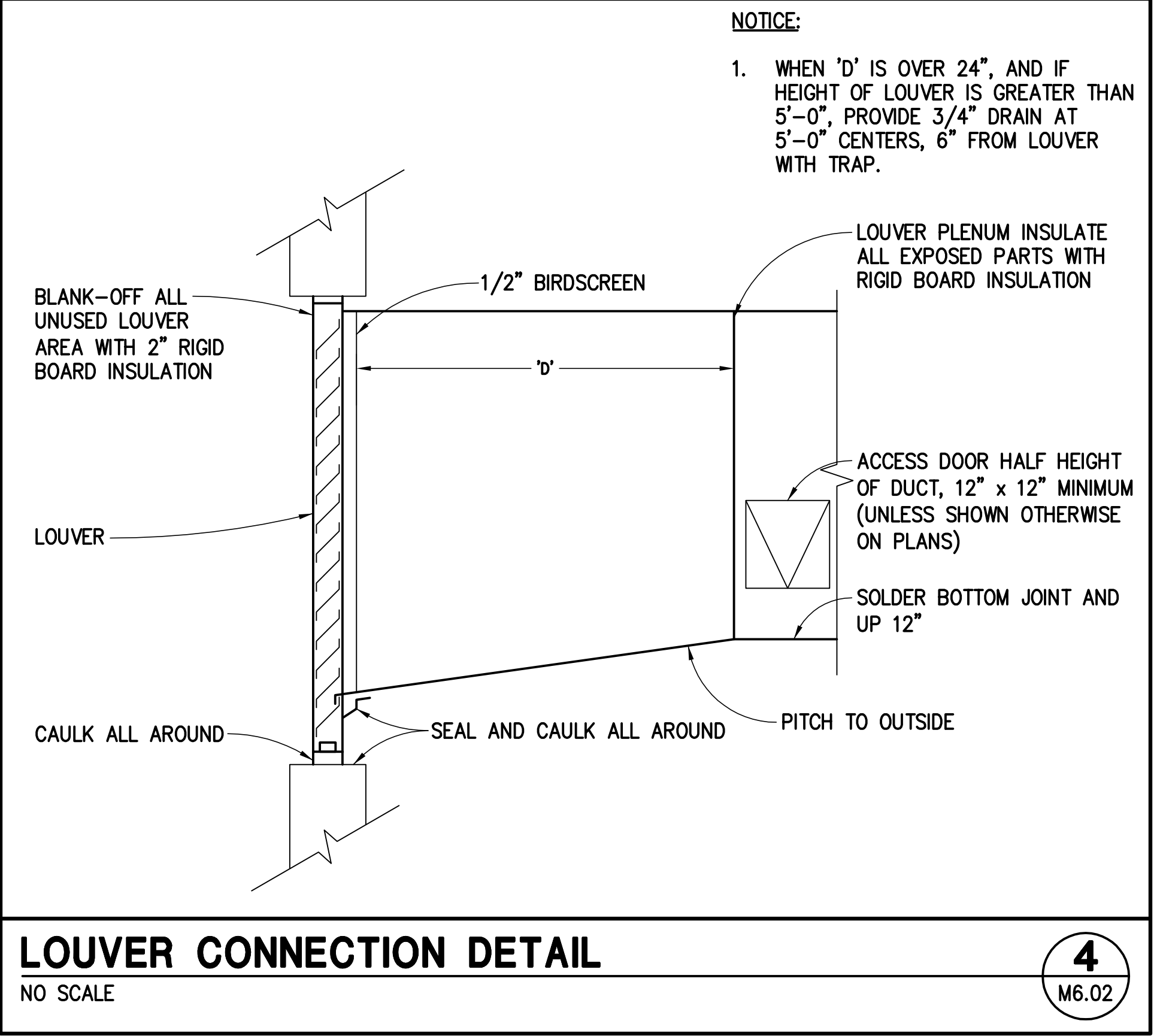
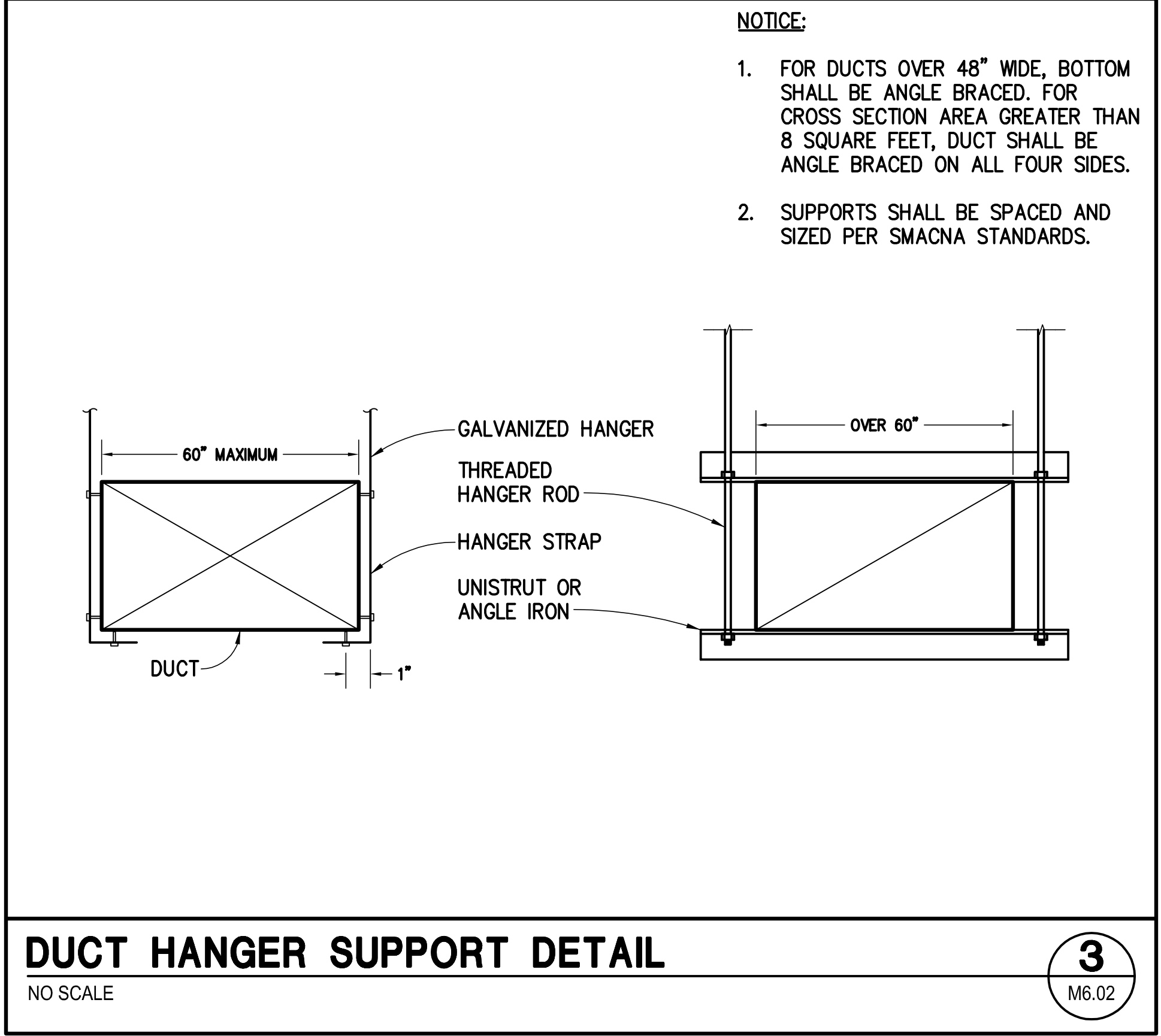
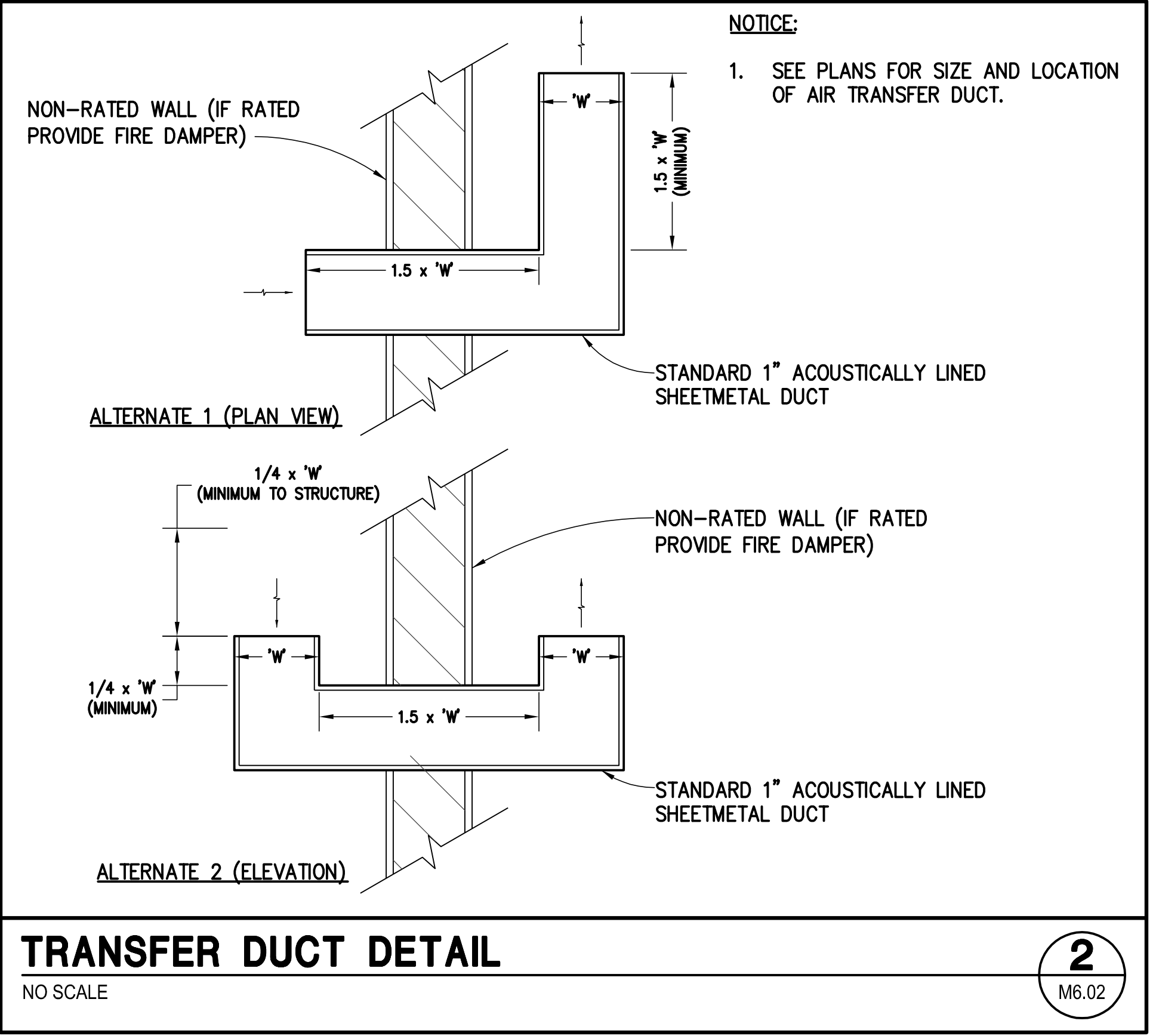
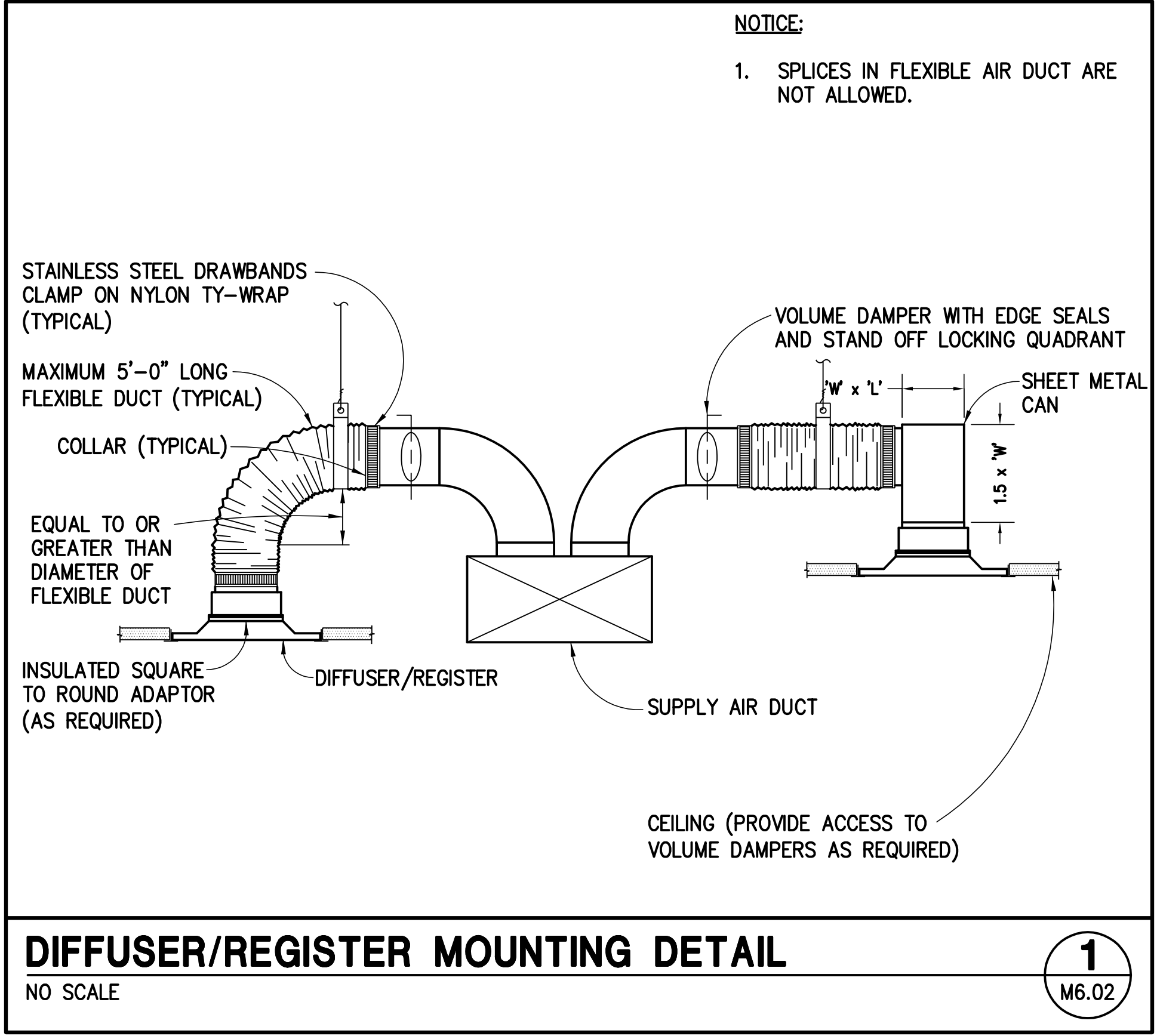
5

M6.01

4/24/2014

REVISIONS:

No.	Date	Description



4/24/2014

REVISIONS:

No.	Date	Description

PLUMBING ABBREVIATION LIST

(THIS IS A MASTER LIST, NOT ALL ABBREVIATIONS MAY APPEAR ON DRAWINGS.)

AD	ACCESS DOOR / AREA DRAIN	IBC	INTERNATIONAL BUILDING CODE	S	SINK, SOIL
AFF	ABOVE FINISH FLOOR	IE	INVERT ELEVATION	SEER	SEASONAL ENERGY EFFICIENCY RATIO
AP	ACCESS PANEL	IFC	INTERNATIONAL FIRE CODE	SH	SHOWER / STATIC HEAD
AUTO	AUTOMATIC	IFGC	INTERNATIONAL FUEL GAS CODE	SOV	SHUT-OFF VALVE
BMS	BUILDING MANAGEMENT SYSTEM	IMC	INTERNATIONAL MECHANICAL CODE	SP	STATIC PRESSURE
BOH	BACK OF HOUSE	IN	INCH	SQ FT (#)	SQUARE FEET
BOS	BOTTOM OF STEEL	IPC	INTERNATIONAL PLUMBING CODE	SS	SERVICE SINK / STAINLESS STEEL
BTU	BRITISH THERMAL UNIT	KW	KILOWATT	T	TEMPERATURE
°C	DEGREES CELSIUS	L	LENGTH, LAVATORY	TAB	TESTING AND BALANCING
CFH	CUBIC FEET PER HOUR	LAV	LAVATORY	TDH	TOTAL DEVELOPED HEAD
CFM	CUBIC FEET PER MINUTE	LBS	POUNDS	TEL	TOTAL EQUIVALENT LENGTH
CP	CHROME PLATED	MAX	MAXIMUM	TOS	TOP OF STEEL
DC	DIRECT CURRENT	MBH	1000 BRITISH THERMAL UNITS PER HOUR	TP	TRAP PRIMER
DDC	DIRECT DIGITAL CONTROL	MCA	MINIMUM CIRCUIT AMPS	TS	TEMPERING STATION
DDCFP	DIRECT DIGITAL CONTROL FIELD PANEL	MCC	MOTOR CONTROL CENTER	TW	TEMPERED WATER
DF	DRINKING FOUNTAIN	MH	MANHOLE	Typ	TYPICAL
DIA (#)	DIAMETER	MIN	MINIMUM	U	URINAL
DN	DOWN	MOCp	MAXIMUM OVER CURRENT PROTECTION	UMC	UNIFORM MECHANICAL CODE
E	EXISTING	NA	NOT APPLICABLE	UNO	UNLESS NOTED OTHERWISE
EFF	EFFICIENCY	NEC	NATIONAL ELECTRICAL CODE	UPC	UNIFORM PLUMBING CODE
EMCS	ENERGY MANAGEMENT CONTROL SYSTEM	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	V	VENT, VOLTS
ET	EXPANSION TANK	NIC	NOT IN CONTRACT	W	WIDTH, WASTE, WATT
EWC	ELECTRIC WATER COOLER	NPSHA	NET POSITIVE SUCTION HEAD AVAILABLE	WC	WATER CLOSET
F	DEGREES FAHRENHEIT	NPSHR	NET POSITIVE SUCTION HEAD REQUIRED	WFU	WATER FIXTURE UNITS
FCO	FLOOR CLEAN OUT	NPT	NATIONAL PIPE THREAD	WG	WATER GAUGE
FH	FIRE HYDRANT	OFCl	OWNER FURNISHED/CONTRACTOR INSTALLED	WH	WATER HEATER
FLA	FULL LOAD AMPS	P	PUMP	WP	WATER PRESSURE
FPM	FEET PER MINUTE	PA	PRESSURE AVAILABLE	WPD	WATER PRESSURE DROP
FPS	FEET PER SECOND	PD	PRESSURE DROP		
FT	FEET / FLUSH TANK	PDI	PLUMBING DRAINAGE INSTITUTE		
FU	FIXTURE UNITS	PH	PHASE		
FV	FLUSH VALVE	POC	POINT OF CONNECTION		
GAL	GALLONS	POD	POINT OF DISCONNECT		
GPH	GALLONS PER HOUR	POS	PROVIDE BY OTHER SECTION		
GPM	GALLONS PER MINUTE	PRV	PRESSURE REDUCING VALVE		
H	HEIGHT	PSI	POUND PER SQUARE INCH		
HD	HEAD	PSIA	POUND PER SQUARE INCH ABSOLUTE		
HOA	HAND OFF AUTO	PSIG	POUND PER SQUARE INCH GAUGE		
HP	HORSEPOWER	RPM	REVOLUTIONS PER MINUTE		
HR	HOUR				
HS	HAND SINK				
HZ	HERTZ				

PLUMBING GENERAL NOTES

1. DO NOT SCALE DRAWINGS. VERIFY DIMENSIONS IN FIELD PRIOR TO COMMENCEMENT OF WORK.
2. ARCHITECTURAL DRAWINGS SHALL BE REVIEWED FOR PROJECT SCOPE AND AREA OF WORK. WORK SHALL INCLUDE DEMOLITION AND REMOVAL OF EXISTING PLUMBING FIXTURES AS REQUIRED. PLUMBING IN EXISTING WALLS AND UNDER GROUND SHALL BE REMOVED AND CAPPED AS REQUIRED. RECONNECT EXISTING PIPING TO FIXTURES AND EQUIPMENT NOT IN DEMOLITION AREA AS REQUIRED TO MAINTAIN A COMPLETE AND OPERABLE SYSTEM.
3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT PLUMBING FIXTURE LOCATIONS, MOUNTING HEIGHTS, AND PLUMBING ROUGH-IN LOCATIONS. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, ALL HANDICAPPED FIXTURES. OBTAIN EXACT FLOOR DRAIN AND FLOOR SINK LOCATIONS FROM FOOD SERVICE DRAWINGS. ROUGH-IN LOCATIONS FOR KITCHENS, BARS, ETC TO BE TAKEN FROM APPROVED FOOD SERVICE SHOP DRAWINGS.
4. ITEM DESIGNATIONS INDICATED ARE FOR PURPOSES OF THESE DOCUMENTS ONLY. CONTRACTOR SHALL VERIFY WITH OWNER ACTUAL DESIGNATION INFORMATION TO BE PROVIDED FOR EACH ITEM OF PLUMBING EQUIPMENT PRIOR TO NAMEPLATE ORDER RELEASE.
5. THE PLUMBING DETAILS SHALL BE INCORPORATED INTO THE ASSOCIATED WORK AND PROVIDE GENERAL GUIDANCE AS TO THE INSTALLATION INTENT WHETHER REFERENCED TO OR NOT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL NECESSARY COMPONENTS FOR A COMPLETE INSTALLATION AND ENSURE THAT ALL INSTALLATIONS ARE IN ACCORDANCE WITH THE EQUIPMENT'S LISTING AND MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTION.
6. SEISMIC RESTRAINTS SHALL BE PROVIDED PER THE LATEST ADOPTED STANDARD BUILDING CODE AND THE SMACNA SEISMIC RESTRAINT MANUAL GUIDELINES FOR MECHANICAL SYSTEMS. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF THE PROPOSED RESTRAINTS, STRUCTURAL ATTACHMENT METHODS, AND RESTRAINT LOCATIONS TO THE ARCHITECT FOR REVIEW. THE SUBMITTED DOCUMENTS SHALL BE PREPARED AND STAMPED BY A STRUCTURAL ENGINEER LICENSED IN THE PROJECT STATE.
7. REFER TO CIVIL DRAWINGS FOR INVERT AT SITE UTILITY POINTS OF CONNECTION. PROVIDE OFFSET AND INCREASER FOR STORM DRAIN OR SEWER AS REQUIRED FOR CONNECTION TO CIVIL.
8. PROVIDE TRAP PRIMERS FOR AREAS OF INFREQUENT USE, INCLUDING FLOOR DRAINS IN RESTROOMS AND MECHANICAL ROOMS, EQUAL TO PRECISION PRODUCTS CO. "PRIME-RITE," WITH DISTRIBUTION UNITS FOR MULTIPLE FLOOR DRAINS AND FLOOR SINKS.
9. REFER TO FLOW CONTROL VALVE DETAIL FOR NOMINAL GPM AT EACH HOT WATER RETURN BRANCH LINE CONNECTION.
10. HOT WATER RETURN PIPING BRANCH LINES TO DROP DOWN IN WALL AND CONNECT TO HOT WATER SUPPLY AT STOPS, OR AT TEMPERING STATIONS. REFER TO DETAIL SHEET FOR DIAGRAMS SHOWING CONNECTIONS.
11. ARRANGE WATER HEATERS AND PIPING TO PROVIDE EASE OF DISASSEMBLY AND MAINTENANCE.
12. PLUMBING RISERS, DRAIN STACKS, AND BRANCH PIPING OFF MAINS SHALL BE COORDINATED WITH MECHANICAL DUCTWORK, MECHANICAL PIPING, AND FIRE PROTECTION PIPING SYSTEMS.
13. INSTALL PIPING HIGH AS POSSIBLE. AS IN THE CASE OF WAREHOUSE AREAS, IN ORDER TO ALLOW FOR SHELVING AND RACKING SYSTEMS OR OTHER SPECIAL CONDITIONS THAT MAY ARISE.
14. TEMPERATURE MAINTENANCE SYSTEM EQUAL TO RAYCHEM 8XL2-CR FOR 105°F DESIGN TEMPERATURE, STRAIGHT TRACED AND INSTALLED UNDER 1" PREFORMED FIBERGLASS PIPE INSULATION WITH VAPOR BARRIER. PROVIDE POWER CONNECTION KIT, TEE CONNECTION KITS AND END SEAL KIT AND SPLICE KITS AS REQUIRED INSTALLATION AND TESTING SHALL COMPLY IN ALL RESPECTS WITH MANUFACTURER'S INSTALLATION AND TESTING PROCEDURES. SUBMIT TEST REPORT TO ARCHITECT FOR REVIEW. SYSTEM SHALL BE 208V/1Ø SERVICE. PROVIDE GLASS TAPE TO TAPE HEATING CABLE TO THE PIPE, ALSO PROVIDE "ELECTRIC TRACED" LABEL AND LOCATE PER MANUFACTURER'S RECOMMENDATIONS.
15. PROVIDE A 6mm POLYETHYLENE SLEEVE EQUAL TO IPS WATER-TITE FOR COPPER DOMESTIC WATER PIPE BELOW SLAB.
16. HOT AND COLD WATER SHUT-OFF VALVES AND HOT WATER RETURN THROTTLING VALVES SHALL BE LOCATED TO BE EASILY ACCESSED.
17. PROVIDE STAINLESS STEEL BASKET AT KITCHEN AND BAR FLOOR SINKS. DRAIN SPECIALTIES MODEL NUMBER DS-200.
18. PROVIDE WALL CLEANOUTS AT SINKS AND URINALS IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE ADOPTED STANDARD PLUMBING CODE.
19. REFER TO MIXING VALVE DETAIL FOR LAVATORY/SINK TEMPERED WATER DETAIL. PROVIDE THERMOSTATIC TYPE MIXING VALVE AS INDICATED.
20. MINIMUM DISTANCE FOR CONNECTIONS AT THE BASE OF SOVENT STACKS ARE 5'-0" FOR 6" STACK, 4'-2" FOR 5" STACK, 3'-4" FOR 4" STACK AND 2'-6" FOR 3" STACK. THIS DISTANCE SHALL APPLY TO ALL CONNECTIONS, INCLUDING FIXTURE BRANCHES.
21. EQUIPMENT AND PIPING LOCATIONS SHOWN FROM BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY SIZE AND LOCATIONS PRIOR TO START OF WORK. IF SYSTEMS ARE NOT AS SHOWN IN DRAWINGS, REPORT DEVIATIONS TO ARCHITECT/ENGINEER WITHIN 48 HOURS OF DISCOVERY.

SHEET INDEX

ISSUE	SHEET NUMBER	SHEET DESCRIPTION
2014-04-24 FOR BID, REVISED 2014-04-11 FOR BID	• •	P0.00 PLUMBING & FIRE PROTECTION SHEET INDEX & GENERAL NOTES
	• •	P0.01 PLUMBING EQUIPMENT SCHEDULES
	• •	P0.02 PLUMBING EQUIPMENT SCHEDULES
	• •	P0.03 PLUMBING SPECIFICATIONS
	• •	P0.04 PLUMBING SPECIFICATIONS
	• •	P100 PLUMBING AND FIRE PROTECTION LEVEL 0 PLAN
	• •	P200 PLUMBING AND FIRE PROTECTION LEVEL 1 PLAN
	• •	P6.01 PLUMBING DETAILS
	• •	P6.02 PLUMBING AND FIRE PROTECTION DETAILS

FIRE SPRINKLER NOTES

1. SPRINKLER CONTRACTOR SHALL PROVIDE SYSTEM DESIGN, LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY FOR THE COMPLETE DESIGN AND INSTALLATION OF THE FIRE SPRINKLER SYSTEM SERVING THE SPACE.
2. THE DESIGN AND INSTALLATION SHALL CONFORM TO ALL REQUIREMENTS OF THE NFPA 13, INTERNATIONAL FIRE CODE AND THE GENERAL REQUIREMENTS OF APPLICABLE SECTIONS OF THE INTERNATIONAL BUILDING CODE, THE SPECIFIC REQUIREMENTS OF THE LOCAL FIRE PREVENTION BUREAU AND THE OWNER'S INSURANCE UNDERWRITER.
3. THE SYSTEM SHALL INCLUDE, BUT IS NOT LIMITED TO: SPRINKLERS, ESCUTCHEONS, PIPING, VALVES, FITTINGS, DRAINS, HANGERS, BRACING, SIGNS, TEST CONNECTIONS AND OTHER IDENTIFICATION MARKINGS AS REQUIRED.
4. ALL PIPING, EQUIPMENT AND MATERIALS USED IN THE INSTALLATION OF THE FIRE PROTECTION SYSTEMS SHALL BE LISTED AS APPROVED BY UL, "LIST OF INSPECTED FIRE PROTECTION EQUIPMENT AND MATERIALS", OR APPROVED BY OTHER APPROPRIATE, NATIONALLY RECOGNIZED TESTING LABORATORIES FOR USE IN SPRINKLER SYSTEMS, AND SHALL BE THE LATEST DESIGN OF THE MANUFACTURER.
5. ALL EQUIPMENT OF THE SAME TYPE SHALL BE PROVIDED BY THE SAME MANUFACTURER. PRODUCTS FROM MULTIPLE MANUFACTURERS FOR THE SAME TYPE SHALL NOT BE ALLOWED.
6. ALL SPRINKLERS WITHIN THE SPACE SHALL BE PROVIDED WITH EQUIVALENT CHARACTERISTICS, INCLUDING TEMPERATURE RATING, RESPONSE TIME INDEX AND RESPONSE TYPE.
7. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND COORDINATE WITH OTHER TRADES PRIOR TO INSTALLATION. COORDINATE WITH OTHER WORK, INCLUDING DUCTWORK, DIFFUSERS, GRILLES, ELECTRICAL AND PLUMBING PIPING AS NECESSARY TO INTERFACE COMPONENTS OF FIRE SPRINKLER PIPING PROPERLY WITH OTHER WORK.
8. AFTER SYSTEM IS INSTALLED IT SHALL BE FILLED AND TESTED IN ACCORDANCE WITH LOCAL REQUIREMENTS AND THE REQUIREMENTS OF THE APPLICABLE NFPA STANDARDS.
9. SHOP DRAWINGS AND HYDRAULIC CALCULATIONS SHALL BE PROVIDED TO THE ARCHITECT PRIOR TO SUBMISSION TO THE LOCAL AUTHORITIES. ONCE APPROVED BY THE ARCHITECT OR THEIR ENGINEER, SHOP DRAWINGS SHALL BE SUBMITTED TO THE LOCAL JURISDICTION FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. SHOP DRAWINGS AND HYDRAULIC CALCULATIONS SHALL CONFORM TO THE REQUIREMENTS OF NFPA 13.
10. THE CONTRACTOR GUARANTEES THAT ALL WORK INSTALLED SHALL BE FREE OF DEFECTS IN WORKMANSHIP AND MATERIAL FOR A PERIOD OF ONE YEAR FROM THE DATE OF THE CERTIFICATION OF COMPLETION AND ACCEPTANCE OF THE WORK.
11. THE CONTRACTOR SHALL PROVIDE A STOCK OF SPARE SPRINKLERS, INCLUDING CABINET, AS REQUIRED BY NFPA 13.
12. ALL SPRINKLERS IN AREAS WITH CEILINGS SHALL BE CONCEALED. FINISH AND COLOR SHALL BE SELECTED BY THE ARCHITECT.
13. ALL SPRINKLERS SHALL BE CENTERED WITHIN THE CEILING TILE, COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO SUBMITTAL OF SHOP DRAWINGS.
14. ALL PIPING IN FINISHED OR PUBLIC SPACES SHALL BE CONCEALED ABOVE FINISHED CEILINGS. PIPING IN UNFINISHED SPACES MAY BE EXPOSED.
15. CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING, SEALING, PATCHING AND PAINTING AS REQUIRED FOR INSTALLATION OF SPRINKLER SYSTEM.
16. CONTRACTOR SHALL TEST ENTIRE SYSTEM IN ACCORDANCE WITH NFPA 13. PROVIDE ARCHITECT WITH COPIES OF ALL TEST CERTIFICATES, OPERATION AND MAINTENANCE MANUALS, RECORD DRAWINGS AND OTHER REQUIRED CERTIFICATES AS REQUIRED BY NFPA 13.
17. CONTRACTOR SHALL BE LICENSED AND FULLY QUALIFIED TO PERFORM THE WORK AS REQUIRED BY THE LOCAL JURISDICTION OF THE PROJECT.

Perez.

ARCHITECTURE
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INTERIORS
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PEREZ
A PROFESSIONAL CORPORATION
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St Bernard Parish Sheriff's Substation

47 Paris Road

DATE: 04/24/14
PROJECT NO.: 01-09-1082-02

REVISIONS:		
No.	Date	Description

DRAWN BY: JLC
CHECKED BY: MMJ

SHEET TITLE
PLUMBING & FIRE PROTECTION SHEET INDEX & GENERAL NOTES

SHEET NO

P0.00

#14-0078

WATER HAMMER ARRESTOR SCHEDULE		
PIPE SIZE (IN)	PDI SYMBOL (1)	NOTES
1/2	A	2
3/4	A	2
1	B	2
1-1/4	B	2
1-1/2	C	2
2	D	2
2-1/2	F	2

1. PDI = PLUMBING DRAINAGE INSTITUTE STANDARDS.
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

PLUMBING SYMBOL LEGEND (THIS IS A MASTER LEGEND, NOT ALL SYMBOLS MAY APPEAR ON DRAWINGS.)		
ABBR	SYMBOL	DESCRIPTION
		SHEET NOTE
		REVISION NUMBER
S OR W		SOIL, WASTE OR SEWER BELOW GRADE OR FLOOR
		SOIL, WASTE OR SEWER ABOVE GRADE OR FLOOR
CWV		COMBINATION WASTE AND VENT
V		VENT
CW		COLD WATER
HW		HOT WATER
HWR		HOT WATER RETURN
TW		TEMPERED WATER
TWR		TEMPERED WATER RETURN
SCW		SOFT COLD WATER
D		DRAIN
PW		PUMPED WASTE
NPW		NON-POTABLE WATER
F		FIRE LINE
CSP		COMBINATION STAND PIPE
		SOLENOID VALVE
HB		HOSE BIBB
RHB		RECESSED HOSE BIBBS
		REDUCED PRESSURE BACKFLOW PREVENTER
CO		CLEANOUT
WCO		WALL CLEANOUT
AD, OAD		AREA DRAIN, OVERFLOW AREA DRAIN
FD		FLOOR DRAIN/ABOVE
FS		FLOOR SINK/ABOVE
PD		PLANTER DRAIN
DD		DECK DRAIN/ABOVE
RD, ORD		ROOF DRAIN, OVERFLOW ROOF DRAIN/ABOVE
VTR		VENT THROUGH ROOF
SOV		SHUT-OFF VALVE
		BALANCING VALVE ASSEMBLY - SOV, CV AND BV
BV		BALANCING VALVE
CV		CHECK VALVE
PRV		PRESSURE REDUCING VALVE
MX		MIXING VALVE
		RELIEF VALVE
		STRAINER WITH BLOW-DOWN VALVE
		FLEXIBLE PIPE CONNECTION
		UNION
		PIPE TRANSITION
PG		PRESSURE GAUGE
TH		THERMOMETER
WHA		WATER HAMMER ARRESTOR
		PIPE DOWN
		PIPE UP
		PIPE TEE UP
		PIPE TEE DOWN
		PIPE CAP
		ANCHOR
		GUIDE
		FLOW ARROW

→ EQUIPMENT TYPE
 → EQUIPMENT NUMBER
 → E = EXISTING
 → PLAN/RISER
 → SHEET

PLUMBING FIXTURE SCHEDULE							
ITEM	FIXTURE	ROUGH-IN SIZE					NOTES
		TW/HW	CW	V	TRAP	S/W	
WC-1	WATER CLOSET	-	1	2	-	4	SLOAN MODEL WETS 2020.1001-1.28, FLOOR MOUNTED, ELONGATED BOWL, 1.28 GPF, BATTERY OPERATED FLUSH VALVE, WHITE VITREOUS CHINA. CHURCH MODEL 295CT OR EQUAL, ELONGATED, OPEN FRONT, WHITE SEAT WITH CHECK HINGES, LESS COVER, ADA COMPLIANT.
WC-2	WATER CLOSET	-	1	2	-	4	SLOAN MODEL WETS 2000.1001-1.28, FLOOR MOUNTED, ELONGATED BOWL, 1.28 GPF, BATTERY OPERATED FLUSH VALVE, WHITE VITREOUS CHINA. CHURCH MODEL 295CT OR EQUAL, ELONGATED, OPEN FRONT, WHITE SEAT WITH CHECK HINGES, LESS COVER.
UR-1	URINAL	-	3/4	2	2	2	SLOAN MODEL WEUS-1005.1001-0.5, WALL MOUNTED, 0.5 GPF, BATTERY OPERATED FLUSH VALVE, WHITE VITREOUS CHINA, 3/4" TOP SPUD, JAY R SMITH 0637 WALL CARRIER, ADA COMPLIANT.
L-1	LAVATORY	1/2	1/2	1-1/2	1-1/2	1-1/2	SEE ARCHITECTURAL FOR FIXTURE TYPE. DELTA 591LF-HGMHDF CHROME PLATED FAUCET AND GRID DRAIN WITH TAILPIECE, ADA COMPLIANT.
L-2	LAVATORY	1/2	1/2	1-1/2	1-1/2	1-1/2	SLOAN MODEL SS-3003 OR EQUAL, WALL MOUNTED, WHITE VITREOUS CHINA, 4" CENTERS, 20-3/4" X 18-1/4" LAVATORY WITH OVERFLOW. DELTA 591LF-HGMHDF CHROME PLATED FAUCET AND GRID DRAIN WITH TAILPIECE, JAY R SMITH 0700 WALL CARRIER, ADA COMPLIANT.
KS-1	KITCHEN SINK	1/2	1/2	1-1/2	1-1/2	2	ELKAY MODEL LRADQ3321 OR EQUAL, COUNTERTOP MOUNTED, TYPE 304 STAINLESS STEEL, 3-HOLES, 8" CENTERS, 33" X 22" X 6-1/2" DEEP, DOUBLE COMPARTMENT SINK WITH QUICK-CLIP MODEL MOUNTING SYSTEM. ELKAY MODEL LKD2439 OR EQUAL, 8" CENTERS, CHROME PLATED, 9-3/4" SWING FAUCET WITH AERATOR, STREAM REGULATOR OUTLET, (2) ELKAY MODEL LK335 OR EQUAL, TYPE 316 STAINLESS STEEL BASKET STRAINER WITH EMTAL STEM AND RUBBER STOPPER, ADA COMPLIANT.
MS-1	SERVICE SINK	3/4	3/4	2	3	3	ACORN TERRAZZO-WARE MODEL TDF-24 OR EQUAL, FLOOR MOUNTED, 24" x 24" x 12" HIGH, STAINLESS STEEL CAPS, 3" DRAIN OUTLET. ELKAY MODEL LK940BP07L2S OR EQUAL, WALL MOUNTED, CHROME PLATED FAUCET WITH BUILT-IN STOPS, TOP WALL BRACE AND VACUUM BREAKER NOZZLE.
SH-1	SHOWER	3/4	3/4	2	2	2	SYMMONS TEMPTRON II MODEL BP-56-1-231 OR EQUAL SHOWER SYSTEM, PRESSURE ACTUATED, ASSE 1016 CERTIFIED, BALANCING MIXING VALVE WITH INTEGRAL STOPS, SHOWER HEAD.
ED-1	FLOOR DRAIN	-	-	2	3	3	JAY R SMITH FIGURE 2005-Y-A CAST IRON DRAIN BODY WITH FLASHING COLLAR AND ADJUSTABLE STRAINER HEAD, NICKEL BRONZE FINISH. PROVIDE WITH A JAY R SMITH 2695 AUXILIARY INLET FITTING.
ED-2	FLOOR DRAIN	-	-	2	3	3	JAY R SMITH FIGURE 2005-Y-A CAST IRON DRAIN BODY WITH FLASHING COLLAR AND ADJUSTABLE STRAINER HEAD, NICKEL BRONZE FINISH, WITH FUNNEL.
WH-1	WALL HYDRANT	-	3/4	-	-	-	MIFAB MODEL MHY-16, NON FREEZE WALL HYDRANT WITH ANTI-SIPHON VACUUM BREAKER, 3/4" THREADED HOSE CONNECTION.
TP-1	TRAP PRIMER	-	1/2	-	-	-	MIFAB MODEL M2-500, BRASS TRAP SEAL PRIMER, WITH INLET OPENING OF 1/2" MALE N.P.T. AND OUTLET OPENING OF 1/2" N.P.T. COMPLETE WITH REMOVABLE FILTER SCREEN.
TP-2	TRAP PRIMER	-	1/2	-	-	-	MIFAB MODEL MR-500, BRASS TRAP SEAL PRIMER, WITH INLET OPENING OF 1/2" MALE N.P.T. AND OUTLET OPENING OF 1/2" N.P.T. COMPLETE WITH REMOVABLE FILTER SCREEN.

Perez.

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4/24/2014

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St Bernard Parish Sheriff's Substation
47
Paris Road

DATE: 04/24/14
PROJECT NO.: 01-09-1082-02

REVISIONS:

No.	Date	Description

DRAWN BY: JLC
CHECKED BY: MMJ

SHEET TITLE
PLUMBING
EQUIPMENT
SCHEDULES
SHEET NO

#14-0078
P0.01

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EXPANSION TANK SCHEDULE

ITEM	LOCATION	MANUFACTURER MODEL NUMBER	TYPE	APPLICATION	TANK VOLUME (GAL)	ACCEPTANCE VOLUME (GAL)	MAXIMUM OPERATING WEIGHT (LBS)	NOTES
ET-1	BRIEFING ROOM 111	AMTROL ST-5-C	DIAPHRAGM	DOMESTIC HOT WATER SYSTEM	2.1	0.9	20	1, 2
<ol style="list-style-type: none"> 1. PROVIDE WITH BOTTOM NPT STAINLESS STEEL SYSTEM CONNECTION AND 0.302" CHARGING VALVE CONNECTION. 2. ASME STAMPED FOR 150 PSIG WATER PRESSURE, PRE-CHARGED, HEAVY DUTY, FDA APPROVED, BUTYL BLADDER AND EPOXY LINED CONNECTIONS. 								

INSTANTANEOUS WATER HEATER SCHEDULE

ITEM	LOCATION	MANUFACTURER MODEL NUMBER	DESIGN FLOW RATE (GPM)	FUEL	INPUT (MBH)	MINIMUM OPERATING FLOW (GPM)	TEMPERATURE RISE (°F)	ELECTRICAL		MAXIMUM OPERATING WEIGHT (LBS)	NOTES
								V/PH	MCA		
IWH-1	EXTERIOR WALL	RHEEM RTG-95XLP	7.4	PROPANE	185	0.26	50	115/1	-	70	1, 2
<ol style="list-style-type: none"> 1. PROVIDE WITH ADAPTORS AND COMPRESSION FITTINGS. 3. FACTORY SET TO 115°F. SUPPLY TEMPERATURE. 											

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4/24/2014



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St Bernard Parish Sheriff's Substation

47

Paris Road

DATE: 04/24/14
PROJECT NO.: 01-09-1082-02

REVISIONS:		
No.	Date	Description

DRAWN BY: JLC
CHECKED BY: MMJ

SHEET TITLE
**PLUMBING
EQUIPMENT
SCHEDULES**

SHEET NO

P0.02

#14.0078

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DIVISION 22 - PLUMBING SPECIFICATIONS

PART 1 - GENERAL

A. GENERAL

- GENERAL CONDITIONS, SPECIAL REQUIREMENTS OR GENERAL REQUIREMENTS OF THE PROJECT SPECIFICATIONS MANUAL ARE MADE PART OF THIS SPECIFICATION AND HAVE THE SAME FORCE AND EFFECT AS IF COMPLETELY REPRODUCED.
- DEFINITIONS:** THE WORD "WORK" SHALL MEAN LABOR AND ANY INCIDENTAL ITEMS OR SERVICES NECESSARY FOR THE PROPER INSTALLATION AND OPERATION OF THE COMPLETE SYSTEMS NOTED ON THESE DRAWINGS AND ASSOCIATED SPECIFICATIONS. THE WORD "PROVIDE" SHALL MEAN FURNISH AND INSTALL AND MAKE FINAL CONNECTIONS AND LEAVE IN AN APPROVED COMPLETE OPERATING CONDITION.
- WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST ADOPTED EDITIONS OF THE APPLICABLE IBC (INTERNATIONAL BUILDING CODE), IMC (INTERNATIONAL MECHANICAL CODE), IECC (INTERNATIONAL ENERGY CONSERVATION CODE), LSPC (LOUISIANA STATE PLUMBING CODE), LOUISIANA SANITARY CODE, NEC (NATIONAL ELECTRICAL CODE), NFPA (NATIONAL FIRE PROTECTION ASSOCIATION) 13, 90A, AND OTHER APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS; INCLUDING AMENDMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING FEES AND OBTAINING PERMITS AND INSPECTIONS REQUIRED FOR THE WORK.
- INFORM THE OWNER OF ANY WORK OR MATERIALS WHICH VIOLATES ANY OF THE APPLICABLE LAWS AND REGULATIONS BEFORE PROCEEDING WITH THE WORK.
- MATERIALS SPECIFIED BY REFERENCE TO A SPECIFIC STANDARD SUCH AS THE ASTM (AMERICAN SOCIETY OF TESTING MATERIALS), UL (UNDERWRITERS' LABORATORIES), ANSI (AMERICAN NATIONAL STANDARDS INSTITUTE), FS (FEDERAL SPECIFICATIONS), A TA (TRADE ASSOCIATION) STANDARD, OR OTHER SIMILAR STANDARD SHALL COMPLY WITH THE REQUIREMENTS OF THE LATEST REVISION THEREOF IN EFFECT AT THE TIME OF BIDDING, EXCEPT AS LIMITED BY TYPE, CLASS OR GRADE, OR MODIFIED IN SUCH REFERENCE.
- ALL MATERIALS, EQUIPMENT AND APPARATUS SHALL BE UL LISTED OR LABELED FOR ALL ITEMS WHERE SUCH LISTING OR LABELING IS AVAILABLE. ITEMS WHICH ARE NOT UL LISTED OR LABELED WILL NOT BE ACCEPTED IF LISTED OR LABELED EQUIPMENT CAN BE OBTAINED FROM ANOTHER ACCEPTABLE MANUFACTURER. EACH COMPONENT OF ASSEMBLIES SHALL BE UL LISTED AS A "RECOGNIZED COMPONENT". COMPONENTS NOT SO LISTED OR MARKED WILL NOT BE ACCEPTED IF LISTED OR MARKED COMPONENTS ARE AVAILABLE FROM ANOTHER MANUFACTURER'S.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER FITTING OF MATERIAL INTO THE BUILDING AS INDICATED ON DRAWINGS, WITHOUT INTERFERENCE WITH OTHER WORK, AND SHALL MAKE REASONABLE MODIFICATIONS IN THE LAYOUTS NEEDED TO PREVENT CONFLICT WITH OTHER TRADES, TO PROVIDE ACCESS AND FOR THE PROPER EXECUTION OF THE WORK.
- WORK SHALL BE COORDINATED WITH THE WORK OF OTHER TRADES INCLUDING CONTRACT DOCUMENTS, SHOP DRAWINGS, AND EXISTING SYSTEMS.
- DO NOT SCALE DRAWINGS AS THEY ARE DIAGRAMMATIC AND SCHEMATIC IN NATURE. CONTRACTOR SHALL PROVIDE NECESSARY ITEMS TO COMPLETE THE WORK ACCORDING TO INDUSTRY STANDARDS. IT IS THE INTENT OF THE DRAWINGS AND SPECIFICATIONS TO CALL OUT FOR FINISHED WORK, TESTED AND READY FOR OPERATION. ARRANGEMENT OF EQUIPMENT AND ROUTING OF PIPES AND DUCTWORK INDICATED ON DRAWINGS SHALL BE ROUTED PLUMB AND AT RIGHT ANGLES. INSTALLATION OF SYSTEMS MAY REQUIRE MODIFICATION DUE TO UNFORESEEN CONDITIONS.
- THE PLUMBING DETAILS SHALL BE CONSIDERED A PART OF THE CONTRACT DOCUMENTS. THESE DETAILS SHALL BE INCORPORATED INTO THE ASSOCIATED WORK AND PROVIDE GENERAL GUIDANCE AS TO THE INSTALLATION INTENT WHETHER REFERENCED OR NOT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL NECESSARY COMPONENTS FOR A COMPLETE INSTALLATION AND ENSURE THAT ALL INSTALLATIONS ARE IN ACCORDANCE WITH THE EQUIPMENT'S LISTING AND THE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.
- CONTRACTOR SHALL SUBMIT A BID BASED ON MANUFACTURER NAMES LISTED UNLESS "OR EQUAL" IS INDICATED. SUBSTITUTION REQUESTS WILL BE REVIEWED BY THE ENGINEER, AND MUST BE SUBMITTED A MINIMUM OF FIVE (5) BUSINESS DAYS PRIOR TO BID DATE CLOSING. ACCEPTABILITY OF SUBSTITUTION WILL BE SOLELY DETERMINED BY THE OWNER.
- THE BASE BUILDING FIRE PROTECTION REPORT AND TENANT IMPROVEMENT LETTERS ARE A PART OF THESE DOCUMENTS AND SHALL BE REVIEWED IN ITS ENTIRETY AND THE WORK INDICATED THEREIN IMPLEMENTED ACCORDINGLY.
- WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER TO THE SATISFACTION OF THE ARCHITECT.
- GUARANTEE THE INSTALLATION AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP WHICH MAY OCCUR UNDER NORMAL USAGE FOR A PERIOD OF ONE (1) YEAR AFTER OWNER'S ACCEPTANCE. DEFECTS SHALL BE PROMPTLY REMEDIED WITHOUT COST TO THE OWNER. ALL MANUFACTURER'S WARRANTIES FOR EQUIPMENT EXTENDING BEYOND THE GUARANTEE PERIOD SHALL BE TURNED OVER TO THE OWNER.
- SYSTEMS SHALL BE TESTED FOR PROPER OPERATION. IF TESTS SHOW THAT WORK IS DEFECTIVE, CONTRACTOR SHALL MAKE CORRECTIONS NECESSARY AT NO COST TO OWNER.
- IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO ESTABLISH A STANDARD OF QUALITY.

B. EXAMINATION OF BIDDING DOCUMENTS:

- EACH BIDDER SHALL EXAMINE THE BIDDING DOCUMENTS CAREFULLY AND, NOT LATER THAN SEVEN (7) DAYS PRIOR TO THE DATE OF RECEIPT AND BIDS, SHALL MAKE WRITTEN REQUEST TO THE ARCHITECT FOR INTERPRETATION OR CORRECTION OF ANY DISCREPANCIES, AMBIGUITY, INCONSISTENCY OR ERROR THEREIN. ANY INTERPRETATION OR CORRECTION WILL BE ISSUED AS AN ADDENDUM BY THE ARCHITECT. ONLY A WRITTEN INTERPRETATION OR CORRECTION BY ADDENDUM SHALL BE BINDING, NO BIDDER SHALL RELY UPON INTERPRETATIONS OR CORRECTIONS GIVEN BY ANY OTHER METHOD. IF DISCREPANCIES, AMBIGUITY, INCONSISTENCY OR ERROR ARE NOT COVERED BY ADDENDUM OR WRITTEN DIRECTIVE, CONTRACTOR SHALL INCLUDE IN THE BID, LABOR, MATERIALS AND METHODS OF CONSTRUCTION RESULTING IN HIGHER COST. AFTER AWARD OF CONTRACT, NO ALLOWANCE OR EXTRA COMPENSATION WILL BE MADE IN BEHALF OF THE CONTRACTOR DUE TO THE FAILURE TO MAKE THE WRITTEN

REQUESTS AS DESCRIBED ABOVE.

- THE COMPANY/CONTRACTOR SUBMITTING THE REQUEST WILL BE RESPONSIBLE FOR ITS PROMPT DELIVERY. FAILURE TO REQUEST CLARIFICATION OF ANY INADEQUACY, OMISSION OR CONFLICT WILL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY. THE SIGNING OF THE CONTRACT WILL BE CONSIDERED AS IMPLICITLY DENOTING THAT THE CONTRACTOR HAS A THOROUGH COMPREHENSION OF THE FULL INTENT AND SCOPE OF THE WORKING DRAWINGS AND SPECIFICATIONS.

C. EXISTING CONDITIONS

- THIS PROJECT INVOLVES CONSTRUCTION INSIDE AN EXISTING STRUCTURE. CONTRACTORS, BY SUBMITTING A BID ARE DEEMED TO BE COMPLETELY FAMILIAR WITH THE EXISTING CONDITIONS OF THE BUILDING AS IT INFLUENCES THE WORK DESCRIBED. NO CLAIMS FOR EXTRA COMPENSATION WILL BE CONSIDERED FOR EXISTING CONDITIONS VISIBLE OR REASONABLY INFERRABLE FROM A CAREFUL EXAMINATION OF THE EXISTING BUILDING CONDITIONS.
- CONTRACTOR SHALL INSPECT THE EXISTING FIELD CONDITIONS AT THE SITE AND THE CONTRACT DOCUMENTS PRIOR TO THE START OF ANY WORK TO DETERMINE WHAT EFFECT THE EXISTING CONDITIONS WILL HAVE ON THE WORK POTENTIAL. CONTRACTOR SHALL REPORT DISCREPANCIES TO THE ARCHITECT AND INCLUDE IN THE BID ALL COSTS REQUIRED TO MAKE THE WORK MEET EXISTING CONDITIONS.
- ALL WORK SHALL BE DONE AS EXPEDITIOUSLY AS POSSIBLE IN SUCH A MANNER AS NOT TO CAUSE INTERFERENCE OR INTERRUPTION TO THE BUSINESS OF THE OWNER. SUBMIT SCHEDULE FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL NOT OBSTRUCT ENTRANCES OR PASSAGES ON THE OWNER'S PREMISES.
- TRANSPORTATION OF MATERIAL INTO AND THROUGH THE BUILDING WILL BE SUBJECT TO REVIEW AND APPROVAL OF THE OWNER AND MAY BE LIMITED TO RESTRICTED TIMES.
- THE OWNER WILL MAKE AVAILABLE TO THE CONTRACTOR AN ELEVATOR FOR HANDLING MATERIALS, RUBBISH, ETC. AT SUCH TIMES WHEN IT IS CONVENIENT TO THE OCCUPANTS OF THE BUILDING. THE CONTRACTOR SHALL PROTECT THE INTERIOR OF THE CAB AGAINST DAMAGE AND PROVIDE LABOR TO HANDLE MATERIALS IN AND OUT OF THE ELEVATOR AND OUT OF THE BUILDING.
- VERIFY ALL SIZES, DIMENSIONS, AND CONDITIONS BEFORE STARTING ANY WORK. ANY DEVIATIONS OR CONFLICTS SHALL BE TRANSMITTED TO THE ENGINEER FOR REVIEW.
- CONTRACTOR SHALL PERFORM AND PREPARE A PRE-CONSTRUCTION TEST AND BALANCE REPORT TO BENCHMARK EXISTING PERFORMANCE OF ALL WATERSIDE SYSTEMS MODIFIED AS PART OF THIS SCOPE.
- CONTRACTOR SHALL CONNECT THEIR WORK TO VARIOUS EXISTING PIPING, DUCTWORK, AND CONTROL SYSTEMS. THE NEW WORK SHALL BE COMPATIBLE WITH THE EXISTING SYSTEM.
- CARE SHALL BE TAKEN DURING DEMOLITION AND INSTALLATION OF THE NEW WORK, AS NOT TO DAMAGE OR INTERRUPT THE EXISTING BUILDING SYSTEMS AND SERVICES INSTALLED. DAMAGE TO EXISTING SYSTEMS AND EQUIPMENT CAUSED BY CONTRACTOR DURING THE INSTALLATION OF THEIR WORK SHALL BE REPAIRED AND/OR REPLACED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE BUILDING OWNER.
- SHUTDOWN OF EXISTING SYSTEMS FOR CONNECTION TO EXISTING SERVICES SHALL BE COORDINATED WITH THE OWNER. CONTRACTOR SHALL SUBMIT REQUESTS WHERE THEY AFFECT THE OPERATION OF THE BUILDING SYSTEMS AT LEAST ONE (1) WEEK IN ADVANCE OF ANY REQUIRED SHUTDOWN. THE ACTUAL SHUTDOWN PERIOD SHALL BE AS SHORT AS POSSIBLE AND AT A TIME AGREED TO BY THE OWNER.
- DEMOLITION SHALL BE COORDINATED BETWEEN OWNER, ARCHITECT AND CONTRACTOR.
- CONTRACTOR SHALL REPORT ANY EQUIPMENT DEFICIENCIES FOUND TO THE ARCHITECT WITHIN FIVE (5) DAYS OF DISCOVERY.
- CONTRACTOR SHALL PROVIDE THE FOLLOWING SERVICES AS APPLICABLE, ON EXISTING HVAC (HEATING, VENTILATION AND AIR-CONDITIONING) EQUIPMENT INDICATED TO REMAIN: FILTER CHANGES, BALANCING, LUBRICATION OF APPLICABLE MOVING COMPONENTS, CLEAN COILS, CALIBRATE UNIT CONTROL COMPONENTS, VERIFY FAN ROTATION AND OPERATION, VERIFY CONTROLS OPERATION, CLEAN CONDENSATE PAN AND TRAP, AND VERIFY PITCH OF CONDENSATE DRAIN.

D. SUBMITTALS

- CONTRACTOR SHALL SUBMIT FIVE (5) SETS OF SHOP DRAWINGS, TECHNICAL DATA SHEETS, AIR DISTRIBUTION LAYOUT DRAWINGS (1/4"=1'-0" SCALE), AND PIPING DISTRIBUTION LAYOUT DRAWINGS (1/4"=1'-0" SCALE). THE ROUTING OF NEW DISTRIBUTION SYSTEM IS SHOWN DIAGRAMMATICALLY AND APPROXIMATED. THE CONTRACTOR SHALL PROVIDE OFFSETS AND TRANSITIONS AS REQUIRED. THE CONTRACTOR SHALL DETERMINE EXACT ROUTING AND LOCATIONS, PROVIDING PROPER CLEARANCES, MAKING PROVISIONS FOR MAINTENANCE ACCESS, AND COORDINATING WITH EXISTING AND NEW COMPONENTS OF OTHER TRADES, THE STRUCTURE, AND OTHER OBSTRUCTIONS. INDICATE SPACES RESERVED FOR FIRE SPRINKLER, PIPING AND ELECTRICAL CONDUIT MAINS. THE SHOP DRAWING SUBMITTAL SHALL BE BASED ON THIS COORDINATION EFFORT AND SHALL SHOW ALL DISTRIBUTION COMPONENTS, PIPING AND COMPONENTS SHALL BE DRAWN TO SCALE, AND SIZES SHALL BE INDICATED. THE ENGINEER SHALL REVIEW SUBMITTALS AND SHOP DRAWINGS FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS AND ISSUE A WRITTEN ASSESSMENT TO THE OWNER PRIOR TO COMMENCEMENT OF WORK.
- CONTRACTOR SHALL SUBMIT FIVE (5) SETS OF EQUIPMENT AND SYSTEM CONTROL SEQUENCES, SCHEMATICS, LOGIC DIAGRAMS AND SYSTEM COMPONENTS INCLUDING DETAILS OF TIE-IN TO EXISTING BUILDING CONTROL. THE ENGINEER SHALL REVIEW CONTROL SHOP DRAWINGS FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS AND ISSUE A WRITTEN ASSESSMENT TO THE OWNER PRIOR TO COMMENCEMENT OF WORK.
- CONTRACTOR SHALL IDENTIFY ANY DEVIATIONS IN SHOP DRAWINGS FROM THE DESIGN DOCUMENTS.
- SUBSTITUTIONS SHALL BE SUBMITTED TO THE OWNER FOR CONSIDERATION PRIOR TO BIDDING. SUBSTITUTIONS SHALL BE PRE-APPROVED IN WRITING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING REQUIREMENTS ASSOCIATED WITH SUBSTITUTED EQUIPMENT OR MATERIALS WITH OTHER BUILDING TRADES INCLUDING ELECTRICAL, STRUCTURAL, AND ARCHITECTURAL ELEMENTS. CONTRACTOR SHALL IDENTIFY AND ANNOTATE REVISED REQUIREMENTS PER BUILDING TRADE ON THE SHOP DRAWINGS. CONTRACTOR SHALL ALSO IDENTIFY COST DEBITS OR CREDITS IN WRITING FOR THE PROPOSED CHANGES PER BUILDING TRADE.

- CONTRACTOR SHALL BE RESPONSIBLE FOR ENGINEERING FEES NECESSARY TO CHANGE PERMIT DOCUMENTS BASED ON ALTERNATE SUBMITTAL PACKAGES/EQUIPMENT SUBSTITUTIONS.

E. RECORD DRAWINGS

- CONTRACTOR SHALL MAINTAIN TWO (2) SETS OF DRAWINGS PERTAINING TO THE WORK. ONE (1) SET OF PRINTS SHALL BE KEPT ON SITE AND CHANGES OR DEVIATIONS FROM THE CONTRACT DRAWINGS SHALL BE CAREFULLY NOTED AS CHANGES OR DEVIATIONS ARE MADE. AT THE COMPLETION OF THE PROJECT AND BEFORE FINAL ACCEPTANCE OF THE WORK, COPY THE CHANGES, DEVIATIONS, AND COMPLEMENTARY INFORMATION ON THE OTHER SET OF PRINTS AND RETURN IT TO THE OWNER. THE COST OF PRINTS AND COSTS INVOLVED IN THE PREPARATION OF THESE RECORD DRAWINGS SHALL BE BORNE BY THE CONTRACTOR.
- NO APPROVAL FOR FINAL PAYMENT WILL BE GIVEN UNTIL, IN THE JUDGEMENT OF THE ENGINEER, COMPLETE AND ACCURATE "AS-BUILT" DRAWINGS HAVE BEEN SUBMITTED.
- FINAL AS-BUILT DRAWINGS ARE TO BE AT LEAST 1/4"=1'-0" SCALE. AS-BUILT DRAWINGS CAN BE GENERATED ON COMPUTER OR BY HAND. IF DRAWINGS ARE HAND GENERATED THEY SHALL BE ON MYLAR. IF THE AS-BUILT DRAWINGS ARE COMPUTER GENERATED, THE CONTRACTOR SHALL DELIVER AN ELECTRONIC COPY OF THE AS-BUILT DOCUMENTATION TO THE OWNER.

F. OPERATING AND MAINTENANCE (O&M) INSTRUCTIONS

- CONTRACTOR SHALL PROVIDE THREE (3) COPIES OF MANUFACTURER'S O&M INSTRUCTIONS FOR EACH PIECE OF EQUIPMENT AND SYSTEM. COPIES SHALL BE COMPILED IN SETS AND PLACED IN A HARD COVER THREE (3) RING BINDER WITH INDEX PAGE AND INDEX TABS. NAME TAG INFORMATION SUCH AS MANUFACTURER, TYPE, SIZE, CAPACITY, SERIAL NUMBER, ETC SHALL BE INCLUDED AS PART OF THE MANUAL.
- PROVIDE WRITTEN OPERATING INSTRUCTIONS WITH DIAGRAMS FOR ALL EQUIPMENT AND ACCESSORIES.
- THE O&M MANUALS SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW.
- FURNISH ONE (1) CLEAN COPY OF EACH FULLY CORRECTED AND PROCESSED SHOP DRAWING.
- REVIEW AND DEMONSTRATE THE O&M INSTRUCTIONS ON SITE WITH THE BUILDING OWNER AFTER THE COMPLETION OF START-UP, TESTING AND BALANCING.

PART 2 - PRODUCTS

A. GENERAL

- PROVIDE EQUIPMENT AS SPECIFIED AND/OR SCHEDULED AND IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS. EQUIPMENT SHALL OPERATE ACCORDING TO THE MANUFACTURER'S "OWNER'S OPERATING AND MAINTENANCE MANUAL" TROUBLE-FREE PRIOR TO STARTING TEST AND BALANCE (TAB) WORK.

B. PIPING AND FITTINGS

- WATER PIPING ABOVE GRADE SHALL BE TYPE L, HARD DRAWN COPPER WITH WROUGHT COPPER FITTINGS. WATER PIPING BELOW GRADE SHALL BE TYPE K, SOFT DRAWN COPPER WITH WROUGHT COPPER FITTINGS. FITTINGS SHALL BE SOLDERED WITH 95-5 TIN-ANTIMONY SOLDER OR BRAZED WITH SILVER BASED FILLER METAL. WATER PIPING SHALL BE TESTED WITH WATER AT 125 PSIG. TEST PRESSURE SHALL BE MAINTAINED FOR A MINIMUM OF 30 MINUTES WITH NO LOSS. DOMESTIC WATER PIPING SHALL BE DISINFECTED IN ACCORDANCE WITH LOCAL REQUIREMENTS.
- GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL. GAS PIPING 2" AND SMALLER SHALL HAVE CLASS 150 BLACK MALLEABLE IRON SCREWED FITTINGS. GAS PIPING LARGER THAN 2" OR ROUTED IN AIR PLENUMS SHALL HAVE BLACK FORGED STEEL SOCKET OR WELD END FITTINGS. PIPING AND FITTINGS EXPOSED TO OUTDOORS SHALL BE GALVANIZED. VALVES FOR GAS PIPING SHALL BE EQUAL TO DEZURIK MODEL 425. GAS PIPING SHALL BE TESTED IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE IPC.
- SOIL, WASTE, STORM, AND VENT PIPING SHALL BE HUB AND SPIGOT, CAST IRON, BELOW GRADE AND NO-HUB ABOVE GRADE. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. SOIL, WASTE AND STORM DRAIN PIPING SHALL BE SLOPED 1/4" PER FOOT UNLESS NOTED OTHERWISE ON DRAWINGS. WALL CLEANOUTS FOR WASTE PIPING SHALL BE FURNISHED AND INSTALLED BELOW SINKS, LAVATORIES AND URINALS IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE UPC. SOIL, WASTE, VENT AND STORM DRAIN PIPING SHALL BE TESTED WITH WATER UNDER PRESSURE EQUIVALENT TO THE HIGHEST POINT PLUS AN ADDITIONAL 10'-0" OF WC MINIMUM. THE SYSTEM OR PORTION THEREOF SHALL BE UNDER PRESSURE FOR A MINIMUM OF 15 MINUTES BEFORE INSPECTION. PVC/ABS PIPING MAY BE USED UNDERGROUND BASED ON SOIL CONDITIONS.
- EQUIPMENT AND CONDENSATE DRAINS SHALL BE MINIMUM TYPE M HARD DRAWN COPPER TUBING WITH WROUGHT COPPER FITTINGS. COPPER TUBING SHALL BE SOLDERED WITH 95-5 TIN-ANTIMONY SOLDER OR BRAZED WITH SILVER BASED FILLER MATERIAL.
- VALVES SHALL HAVE NAME OF MANUFACTURER AND GUARANTEED WORKING PRESSURE CAST OR STAMPED ON BODIES. VALVES OF SIMILAR TYPE SHALL BE BY A SINGLE MANUFACTURER. VALVES SHALL BE AS MANUFACTURED BY CRANE, NIBCO OR MILWAUKEE.
- SHUT-OFF VALVES 2" AND SMALLER SHALL BE FULL PORT BALL-TYPE.

C. PIPE INSULATION

- ALL COLD WATER AND HOT WATER PIPING LOCATED INDOORS, SHALL BE INSULATED WITH 1" THICK, NONCOMBUSTIBLE, PREFORMED, FIBERGLASS PIPE INSULATION WITH A CONDUCTIVITY, K-VALUE, OF 0.27 AT 75° F. INSULATION SHALL HAVE A KRAFT REINFORCED FOIL VAPOR BARRIER WITH SELF-SEALING ADHESIVE JOINTS. FITTINGS, VALVES AND ACCESSORIES SHALL ALSO BE INSULATED.
- ALL ABOVEGROUND COLD WATER AND HOT WATER PIPING LOCATED OUTDOORS SHALL BE INSULATED WITH FLEXIBLE ELASTOMERIC (ARMAFLEX OR EQUAL) INSULATION, MINIMUM 2-INCHES THICK.
- INSULATED PIPING EXPOSED TO VIEW THROUGHOUT THE FACILITY AND EXTERIOR TO THE BUILDING SHALL BE COVERED AND FINISHED WITH PVC JACKET EQUAL TO MANVILLE PVC/PERMA-PIPE JACKETING SYSTEM USING 30 MIL THICK JACKET. INSTALL PER MANUFACTURER'S INSTRUCTIONS WITH SEAM ON TOP OF PIPE SO AS NOT TO BE VISIBLE FROM OCCUPIED SPACE.

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4/24/2014



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St Bernard Parish Sheriff's Substation

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Paris Road

DATE: 04/24/14
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REVISIONS:

No.	Date	Description

DRAWN BY: JLC
CHECKED BY: MMJ
SHEET TITLE

PLUMBING
SPECIFICATIONS

SHEET NO

P0.03

#14-0078

- PROVIDE WHITE SKAL-GARD MODEL SG-102, 103, AND 104 COVERS ON P-TRAPS, WASTE OFFSETS, HOT AND COLD WATER ANGLE STOPS, AND SUPPLIES WHERE HANDICAP LAVATORIES AND SINKS OCCUR (EQUAL BY PRO-WRAP).

D. MISCELLANEOUS

- WATER HAMMER ARRESTERS EQUAL TO SIOUX CHIEF HYDRA-RESTER SHALL BE FURNISHED AND INSTALLED ON HOT AND COLD WATER PIPING SYSTEMS IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION REQUIREMENTS. WATER HAMMER ARRESTERS SHALL BE PDI CERTIFIED AND ANSI APPROVED.
- PIPING SHALL BE IDENTIFIED WITH PLASTIC PIPE MARKERS IN CLEAR VIEW AND ALIGNED WITH AXIS OF PIPING. MARKERS SHALL BE PREPRINTED WITH PRESSURE SENSITIVE PERMANENT ADHESIVE AND COLOR CODED IN COMPLIANCE WITH ANSI A13.1. SERVICE AND FLOW DIRECTION SHALL BE INDICATED. DISTANCE BETWEEN IDENTIFICATION LOCATIONS SHALL NOT EXCEED 25'-0". IDENTIFICATION SHALL BE LOCATED AT EACH VALVE, RUNOUT, EQUIPMENT CONNECTION AND ON BOTH SIDES OF AN OBSTRUCTION. VALVE TAGS SHALL BE BRASS AND 1.5" DIAMETER WITH SOLID BRASS CHAIN. TAGS FOR FLOW CONTROLS SHALL INCLUDE FLOW AND PRESSURE DROP SET POINTS.
- PIPE HANGERS FOR INSULATED PIPE SIZES 1/2" TO 1-1/2" SHALL BE ADJUSTABLE, STEEL, BAND TYPE. PIPE HANGERS FOR INSULATED PIPE SIZES 2" AND LARGER SHALL BE ADJUSTABLE, STEEL CLEVIS TYPE. SHIELDS SHALL BE USED WHERE HANGER SUPPORTS INSULATED PIPE. SHIELDS SHALL BE 18 GAGE GALVANIZED STEEL OVER INSULATION 180 DEGREES AND A MINIMUM OF 1'-0" LONG. PIPE HANGERS FOR BARE PIPE SHALL BE ADJUSTABLE, MALLEABLE STEEL, SPLIT RING TYPE. BARE COPPER PIPE SHALL BE PROTECTED FROM CORROSION BY STONEMAN TRISOLATOR OR SIMILAR PRODUCT. RISER CLAMPS FOR VERTICAL PIPING SHALL BE SUPPORTED WITH RUBBER/NEOPRENE PADS BETWEEN THE RISER ARMS AND FLOOR. HANGERS SHALL BE LOCATED 12" MAXIMUM FROM ANY CHANGE IN DIRECTION AND SPACED AS FOLLOWS FOR STRAIGHT RUNS:

PIPE SIZE MAXIMUM	MAXIMUM HANGER SPACING	MINIMUM HANGER ROD DIAMETER
1/2" TO 1-1/4"	6'-0"	3/8"
1-1/2" TO 2"	8'-0"	3/8"
2-1/2" TO 3"	10'-0"	1/2"
4" TO 6"	10'-0"	5/8"
- PROVIDE TRAP GUARDS AT FLOOR DRAINS IN MECHANICAL ROOM. GUARDS SHALL BE SMOOTH, FLEXIBLE, ELASTOMERIC PVC MATERIAL MOLDED INTO THE SHAPE OF A DUCK'S BILL, OPEN ON TOP WITH CURL CLOSURE AT THE BOTTOM, ALLOWING WASTEWATER TO OPEN AND DISCHARGE THROUGH ITS INTERIOR, CLOSING AND RETURNING TO ITS ORIGINAL MOLDED SHAPE AFTER WASTEWATER DISCHARGE IS COMPLETE, AND IN COMPLIANCE WITH ASME A112.6.3., NSF/ANSI 14, CSA B 79. ACCEPTABLE MANUFACTURER: PROSET.
- PROVIDE TRAP PRIMERS ON FLOOR DRAINS AND SHOWER DRAINS IN RESTROOMS. SHALL BE FOR PRESSURE DROP ACTIVATED BRASS TRAP SEAL PRIMER, WITH INLET OPENING OF 1/2" (13) MALE N.P.T. AND OUTLET OPENING OF FEMALE 1/2" (13) N.P.T. COMPLETE WITH FOUR VIEW HOLES AND REMOVABLE FILTER SCREEN. SERVES UP TO 10 FLOOR DRAIN TRAPS AND REQUIRES NO ADJUSTMENTS AND NO AIR PRE-CHARGE. ACCEPTABLE MANUFACTURER: MIFAB.
- PROVIDE FREEZE PROTECTION CABLE SYSTEM ON EXTERIOR DOMESTIC WATER PIPING BETWEEN BUILDING AND DOMESTIC WATER HEATER. CABLE SYSTEM SHALL BE CHROMALOX SRF3 OR EQUAL, SELF-REQUALING FREEZE PROTECTION HEATING CABLE SYSTEM, 3 WATTS/LENEAR FOOT, 120 VOLTS/1 PHASE/60 HERTZ. PROVIDE ALL REQUIRED ACCESSORIES FOR A FULL OPERATIONAL SYSTEM, INCLUDING PIPEWALL-SENSING THERMOSTATS, POWER TERMINATION KIT, JUNCTION BOX, END SEALS, PIPE STRAPS, AND STRAPPING TAPE, AS REQUIRED.
- PROVIDE THERMOSTATIC POINT OF USE MIXING VALVES FOR LAVATORIES AND SINKS. MIXING VALVES SHALL BE LEONARD MODEL 270-LF OR EQUAL.

PART 3 - EXECUTION

A. GENERAL

- ELECTRICAL CHARACTERISTICS OF PLUMBING EQUIPMENT SHALL BE VERIFIED WITH ELECTRICAL DRAWINGS PRIOR TO ORDER RELEASE. ADDITIONAL ELECTRICAL WORK RESULTING FROM EQUIPMENT SUBSTITUTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ELECTRICAL CONTRACTOR SHALL PROVIDE STARTERS AND CONTROLLERS FOR MOTORS. PLUMBING CONTRACTOR SHALL FURNISH VARIABLE FREQUENCY DRIVES AND ELECTRICAL CONTRACTOR SHALL INSTALL UNLESS FACTORY INSTALLED. MOTORS 1 HP AND ABOVE SHALL BE PREMIUM EFFICIENCY.
- COORDINATE ROUTING OF PIPING TO MAINTAIN CLEARANCES ABOVE ELECTRICAL PANELS AND EQUIPMENT PER NEC REQUIREMENTS. MAINTAIN REQUIRED CLEARANCES WITHIN ELEVATOR EQUIPMENT ROOMS.
- COORDINATE CHASE, SLEEVE AND SLAB BLOCKOUT REQUIREMENTS BEFORE CONCRETE IS POURED OR BLOCK IS SET.
- MAINTAIN OCCUPANCY AND FIRE WALL SEPARATION INTEGRITY AS REQUIRED. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS OF OCCUPANCY/FIREWALL SEPARATIONS AND SPECIFIC DETAILS FOR CONSTRUCTION. PROVIDE NECESSARY CAULKING AND ACCESSORIES FOR APPROVED INSTALLATION.
- PENETRATIONS OF FIRE RATED WALLS OR FLOORS BY PIPE SHALL BE SEALED BY A FIRESTOPPING SYSTEM UL LISTED FOR THE APPLICATION. INSTALL PENETRATION SEAL MATERIALS IN ACCORDANCE WITH PRINTED INSTRUCTION OF THE UL FIRE RESISTANCE DIRECTORY AND MANUFACTURER'S INSTRUCTIONS. FIRESTOPPING SYSTEM SHALL BE AS SPECIFIED BY ARCHITECT OR EQUAL TO 3M FIRE BARRIER. FIRESTOPPING MATERIAL SHALL BE CAULK OR PUTTY TYPE.
- PENETRATIONS OF BELOW GRADE WALLS BY PIPE SHALL BE SEALED WITH THUNDERLINE LINK-SEAL OR APPROVED EQUAL. PENETRATION SEAL MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- PENETRATIONS THROUGH STRUCTURE, STUDS, OR FIRE-RATED WALLS SHALL BE MADE OVERSIZED TO PREVENT CONTACT.
- UNDER NO CIRCUMSTANCE IS THE FIRE PROOFING OF THE BUILDING STRUCTURE (WHERE APPLICABLE) TO BE REMOVED FOR THE INSTALLATION OF HANGERS, SUPPORTS, PIPING, ETC. CLAMPING DEVICES SHALL NOT BE USED WHERE THE STRUCTURE IS FIRE PROOFED. IF FIRE PROOFING IS DAMAGED, IT SHALL BE REPAIRED TO THE SATISFACTION OF THE BUILDING

OWNER.

- STRUCTURAL STEEL SUPPORTS, HANGER BRACKETS, ETC. REQUIRED FOR SUPPORT SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR. THE WELDS AND EDGES OF BRACKETS SHALL BE FILED OR GROUND SMOOTH FOR PAINTING. HANGERS SHALL BE STEEL ANGLE IRON, STEEL CHANNEL, OR STEEL ROD USED WITH APPROVED CLAMPS, INSERTS, ETC. SUPPORTS, HANGERS, BRACKETS, ETC., SHALL BE AS APPROVED BY THE ENGINEER. NO PERFORATED STRAP, CHAIN LINK, OR WIRE MAY BE USED. HANGERS SHALL BE GALVANIZED OR PAINTED WITH TWO COATS OF RUSTOLEUM PAINT BEFORE THEIR INSTALLATION.
- PROVIDE A 6 MIL POLYETHYLENE SLEEVE SYSTEM EQUAL TO IPS WATER-TITE FOR COPPER DOMESTIC WATER PIPE BELOW SLAB.
- WHERE PIPES OR CONDUITS PASS THROUGH WALLS, FLOORS, OR CEILINGS IN FINISHED AREAS, THEY SHALL BE FURNISHED WITH ESCUTCHEON PLATES (COLOR PER ARCHITECT OR INTERIOR DESIGNER).
- PROVIDE CHROME PLATED ESCUTCHEONS AT PIPE SLEEVES FOR EXPOSED BARE PIPE. FINISH SHALL BE AS SPECIFIED BY ARCHITECT AND INTERIORS.
- PIPE PENETRATIONS THROUGH SOUND RATED GYPSUM BOARD PARTITIONS SHALL BE SEALED WITH ACOUSTICAL CAULK OR A RESISTANT ESCUTCHEON.
- TRENCHING AND BACKFILL WORK ASSOCIATED WITH PLUMBING SHALL BE PERFORMED IN ACCORDANCE WITH DIVISION 2 SPECIFICATIONS. IF DIVISION 2 SPECIFICATIONS, DO NOT EXIST, THE FOLLOWING SHALL BE PERFORMED:
 - UNDERGROUND PIPING SHALL BE INSTALLED WITH A MINIMUM OF 24" COVER FROM FINISHED GRADE.
 - TRENCHING OF PIPES SHALL BE A MINIMUM OF 6" BELOW THE REQUIRED PIPE GRADE WITH A 6" BED OF SAND PROPERLY COMPACTED TO PROVIDE AN ACCURATE GRADE AND UNIFORM BEARING THROUGHOUT THE LENGTH OF PIPE.
 - BACKFILL OF PIPES SHALL INCLUDE A MINIMUM OF 6" LAYER OF SAND OVER THE TOP OF THE PIPE(S) PROPERLY COMPACTED.
 - BACKFILL OF PIPES SHALL NOT OCCUR UNTIL WORK HAS BEEN INSPECTED, TESTED AND APPROVED.
- SHOWER HEAD ESCUTCHEONS SHALL BE RIGIDLY ATTACHED TO THE WALL USING POLYSEAM SEAL CAULKING MATERIAL.
- WATER PROOFING AND FLASHING OF PIPE PENETRATIONS THROUGH EXTERIOR WALL AND ROOF SHALL BE BY THE CONTRACTOR. CONTRACTOR SHALL COORDINATE LOCATIONS AND METHODS WITH GENERAL CONTRACTOR PRIOR TO CONSTRUCTION OF ROOF DECK.
- VENTS TERMINATED ABOVE ROOF SHALL BE 10 FOOT MINIMUM FROM OUTSIDE AIR INTAKES OR BUILDING OPENINGS.
- FIXTURE LOCATIONS AND MOUNTING HEIGHTS SHALL BE ACCORDING TO THE ARCHITECTURAL DRAWINGS. FIXTURES SHALL COMPLY WITH SECTION 25.10.050 OF THE CLARK COUNTY WATER CONSERVATION CODE.
- LOCATE FLUSH VALVE HANDLE ON WIDE SIDE OF STALL PER ADA STANDARDS FOR HANDICAPPED WATER CLOSETS.
- PLUMBING EQUIPMENT SHALL BE SECURED AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE SECTIONS OF THE INTERNATIONAL BUILDING CODE AND UNIFORM PLUMBING CODE.
- CONTRACTOR SHALL PROVIDE HOUSEKEEPING PADS, FOUNDATIONS, HANGERS, AND SUPPORTS FOR EQUIPMENT SUPPLIED OR INSTALLED UNDER THEIR WORK.
- COORDINATE AND VERIFY ACTUAL APPROVED EQUIPMENT DIMENSIONS PRIOR TO POURING EQUIPMENT PADS.
- PLUMBING EQUIPMENT SHALL BE IDENTIFIED WITH BAKELITE NAMEPLATES. COLOR CODING OF NAMEPLATES AND IDENTIFICATION INFORMATION SHALL BE COORDINATED WITH THE OWNER.
- EQUIPMENT START-UP SHALL BE BY MANUFACTURER'S AUTHORIZED REPRESENTATIVE.
- COORDINATE WITH THE MECHANICAL CONTRACTOR TERMINATION POINTS OF HVAC EQUIPMENT DRAIN PIPING.
- PIPING CONNECTIONS TO EQUIPMENT WITH VIBRATIONS SHALL BE MADE WITH FLEXIBLE CONNECTIONS.
- PROVIDE ACOUSTICAL ISOLATION DEVICES BY SPECIALTY PRODUCTS CO., OR APPROVED EQUAL AT EACH DOMESTIC HOT AND COLD WATER PIPE RISER, INCLUDING BRANCH CONNECTIONS TO LAVATORIES, BATHTUBS, SHOWERS AND WATER CLOSETS.
- LOCATE WATER HAMMER ARRESTERS ON HOT AND COLD WATER PIPING SYSTEMS FOR BOTH PUBLIC AND BACK-OFF-HOUSE TOILET ROOMS, AS WELL AS ON HOT AND COLD WATER MAINS SERVING KITCHENS AND PANTRIES. WATER HAMMER ARRESTERS SHALL BE LOCATED WITHIN EASY REACH OF ACCESS PANELS, IN PIPE CHASES, OR ABOVE CEILINGS, SO AS TO BE ACCESSIBLE FOR MAINTENANCE. PROVIDE WATER HAMMER ARRESTERS ON ALL QUICK CLOSING VALVES AT DISHWASHERS, CLOTHES WASHERS, AND ICE MAKER LINES. MINI ANGLE STOP ARRESTORS SUCH AS PRECISION PLUMBING PRODUCTS INC "MINI-MAX" OR EQUAL, SHALL BE PROVIDED AND INSTALLED PER THE UNIFORM PLUMBING CODE.
- PROVIDE THERMOSTATIC MIXING VALVES AT SINGLE LAVATORIES AND HAND SINKS TO PROVIDE TEMPERED WATER TO HOT SIDE OF FAUCET. MIXING VALVES SHALL BE LOCATED UNDER LAVATORY COUNTER AND HELD AS HIGH AS POSSIBLE TO BE OUT OF LINE OF SIGHT. REFER TO DETAIL SHEET FOR DEVICE AND PIPING DIAGRAMS TO PROVIDE TEMPERED WATER AT SINKS AND LAVATORIES.
- PLUMBING ISOLATION AND DRAIN VALVES, INCLUDING RISER ISOLATION VALVES, AS WELL AS HOT WATER RETURN THROTTLING VALVES SHALL BE LOCATED WITHIN EASY REACH OF CEILING, ACCESS PANEL, OR CATWALK, AND DROPPED TO WITHIN A MAXIMUM 10'-0" OF FINISH FLOOR WHERE NO CEILING OCCURS.
- WHERE THROTTLING OR SHUT-OFF VALVES ARE LOCATED ABOVE ACCESS PANEL IN CORRIDOR, VALVES AND PIPING SHALL BE LOCATED SO AS TO NOT CONFLICT WITH ELECTRICAL AND SHALL MAINTAIN A MINIMUM OF 6" CLEARANCE FROM ALL SIDES. A DIMENSIONED SHOP DRAWING SHALL BE SUBMITTED FOR TYPICAL VALVE AND PIPING LAYOUT. (TOWER CORRIDORS)

- PROVIDE 18" x 18" MINIMUM ACCESS DOOR IN INACCESSIBLE CEILINGS AND WALLS FOR EQUIPMENT REQUIRING ACCESS OR ADJUSTMENT. COORDINATE LOCATIONS AND SUBMIT TO ARCHITECT FOR APPROVAL PRIOR TO BEGINNING WORK.
- PROVIDE ACCESS DOORS IN GYPSUM BOARD CEILINGS AND INACCESSIBLE WALLS FOR VALVES AND CLEAN-OUTS. COORDINATE LOCATION OF VALVES, CLEAN-OUTS AND ACCESS DOORS WITH INTERIOR DESIGNER AND ARCHITECT PRIOR TO INSTALLATION. DOOR SIZE SHALL ALLOW FULL ACCESS TO VALVE AND CLEAN-OUT.
- CLEAN AND DISINFECT POTABLE DOMESTIC WATER PIPING IN ACCORDANCE WITH PROCEDURES DEFINED BY AUTHORITY HAVING JURISDICTION.
- AT THE CONCLUSION OF THE PROJECT THE CONTRACTOR SHALL CLEAN AND FLUSH PIPING, CLEAN EXTERIOR SURFACE OF EQUIPMENT AND REMOVE CONSTRUCTION DEBRIS, TEMPORARY FACILITIES AND EQUIPMENT FROM THE WORK AREA.

Perez.

ARCHITECTURE
ENGINEERING
PLANNING
INTERIORS
LANDSCAPE
GRAPHICS

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4/24/2014



JBA New Orleans
3525 N Causeway Blvd
Suite 500
Metairie, LA 70002
p.504.830.0139

St Bernard Parish Sheriff's Substation
47 Paris Road

DATE: 04/24/14
PROJECT NO.: 01-09-1082-02

REVISIONS:

No.	Date	Description

DRAWN BY: JLC
CHECKED BY: MMJ
SHEET TITLE

PLUMBING
SPECIFICATIONS

SHEET NO

P0.04

#14.0078



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3525 N Causeway Blvd
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St Bernard Parish Sheriff's Substation
47 Paris Road

DATE: 04/24/14
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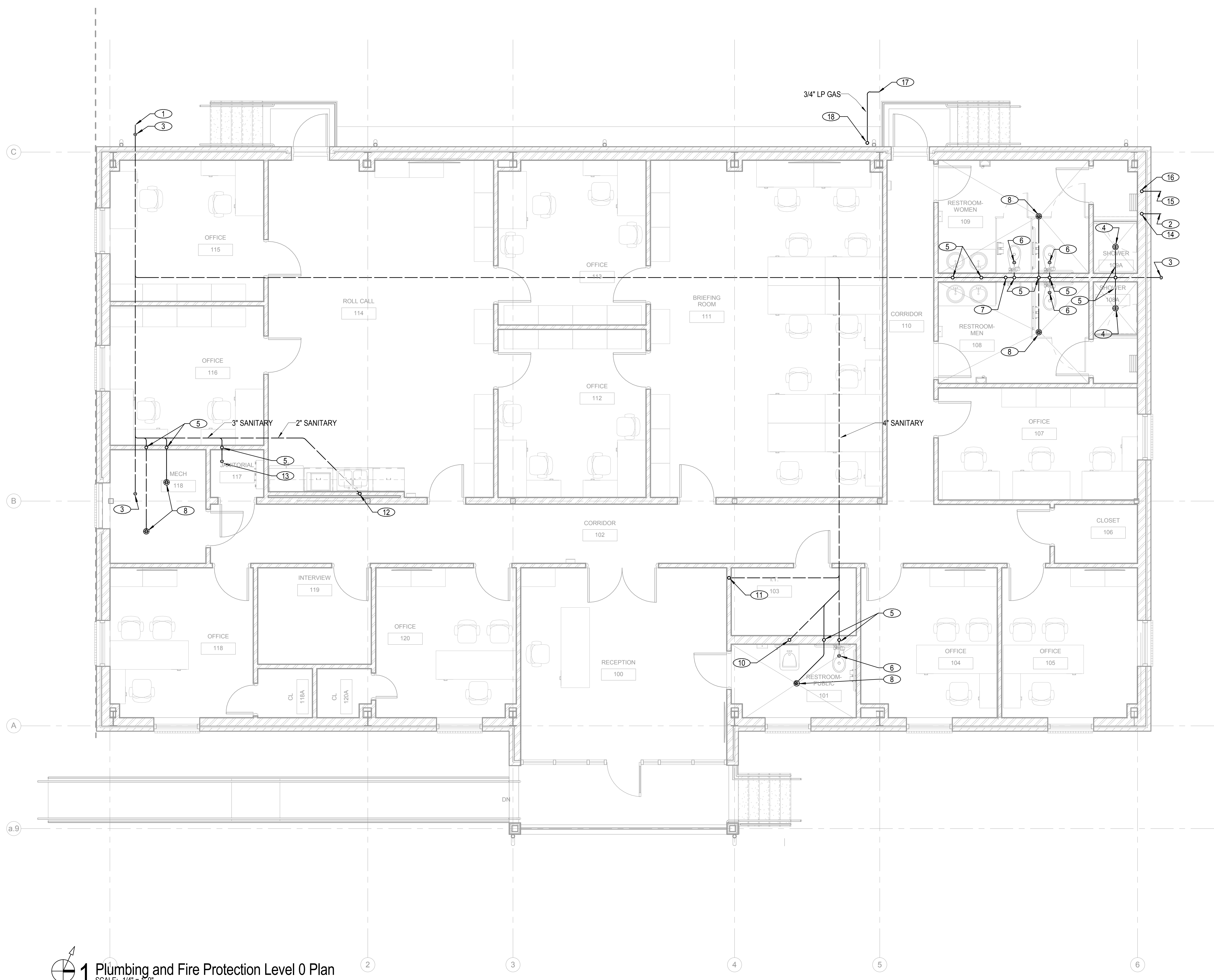
DRAWN BY: JLC
CHECKED BY: MJU

SHEET TITLE
Plumbing and Fire Protection Level 0 Plan

SHEET NO
P1.00

NOTES

- 1 4" SANITARY, COORDINATE INVERT AND LOCATION WITH SITE CONTRACTOR. SEE DETAIL 2/P6.01.
- 2 2" INCOMING DOMESTIC WATER SERVICE, COORDINATE LOCATION WITH SITE CONTRACTOR.
- 3 4" CLEANOUT.
- 4 2" SANITARY UP TO SHOWER DRAIN.
- 5 2" VENT UP.
- 6 4" SANITARY UP TO WATER CLOSET.
- 7 2" SANITARY UP TO URINAL.
- 8 3" SANITARY UP TO FLOOR DRAIN.
- 9 2" SANITARY UP TO LAVATORIES.
- 10 2" SANITARY UP TO LAVATORY.
- 11 2" SANITARY UP TO HUB DRAIN FOR DUCTLESS UNIT. PROVIDE TRAP GUARD ON INLET OF DRAIN.
- 12 2" SANITARY UP TO KITCHEN SINK.
- 13 3" SANITARY UP MOP SINK.
- 14 2" DOMESTIC WATER UP.
- 15 4" INCOMING FIRE PROTECTION LINE, COORDINATE LOCATION WITH SITE CONTRACTOR.
- 16 4" FIRE PROTECTION LINE UP.
- 17 3/4" INCOMING LP GAS FROM TANK.
- 18 3/4" LP GAS UP TO HEATER.



1 Plumbing and Fire Protection Level 0 Plan
SCALE: 1/4" = 1'-0"

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St Bernard Parish Sheriff's Substation
47 Paris Road

DATE: 04/24/14
PROJECT NO.: 01-09-1082-02

REVISIONS:		
No.	Date	Description

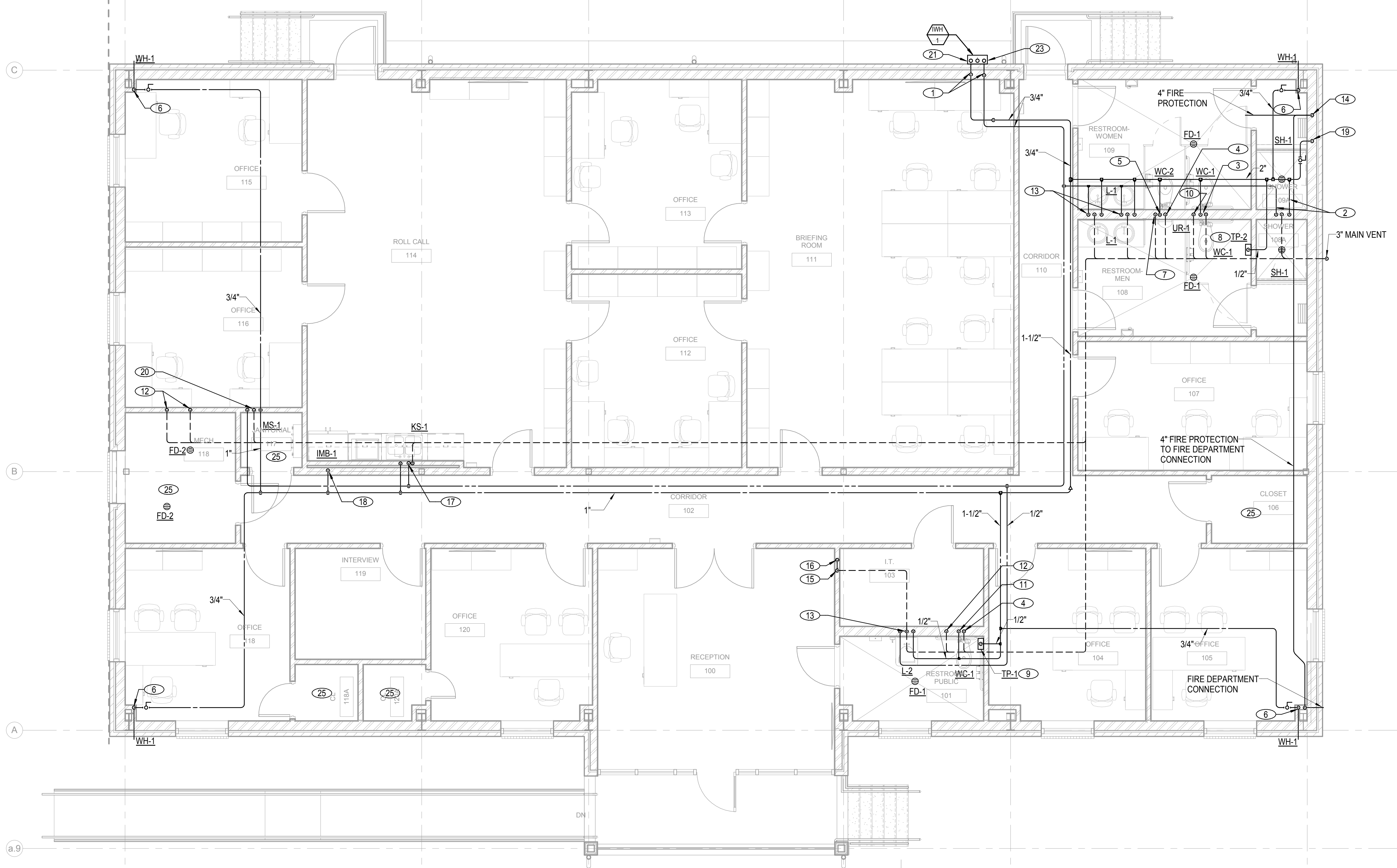
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CHECKED BY: MMJ

SHEET TITLE
Plumbing and Fire Protection Level 1 Plan
SHEET NO

#14.0078
P2.00

NOTICE
1. AUTOMATIC WET PIPE SPRINKLER SYSTEM SHALL BE DESIGNED FOR LIGHT HAZARD OCCUPANCY CLASSIFICATION, UNLESS OTHERWISE NOTED.

- NOTES**
- 1 3/4" CW AND HW DOWN TO WATER HEATER.
 - 2 3/4" CW AND HW, 2" VENT DOWN TO SHOWER. ROUTE 1/2" CW AND HW TO EACH SHOWER VALVE.
 - 3 1-1/2" CW AND 2" VENT DOWN TO WATER CLOSETS, CONNET 1" CW TO EACH WATER CLOSET.
 - 4 2" VENT DOWN TO WATER CLOSET.
 - 5 1-1/2" CW DOWN TO WATER CLOSET AND URINAL, CONNET 1" CW TO WATER CLOSET AND 3/4" CW TO URINAL.
 - 6 3/4" CW DOWN TO WALL HYDRANT.
 - 7 2" VENT DOWN TO URINAL.
 - 8 ROUTE 1/2" CW FROM TP-2 DOWN IN WALL TO EACH SHOWER DRAIN. PROVIDE 1/2" FITTING IN SANITARY DRAIN ABOVE TRAP FOR CONNECTION. ROUTE 1/2" CW FROM TP-2 DOWN IN WALL TO FLOOR DRAIN. PROVIDE WITH ACCESS PANEL.
 - 9 ROUTE 1/2" CW FROM TP-1 DOWN IN WALL TO FLOOR DRAIN. PROVIDE WITH ACCESS PANEL.
 - 10 2" VENT DOWN TO FLOOR DRAINS.
 - 11 1" CW DOWN TO WATER CLOSET.
 - 12 2" VENT DOWN TO FLOOR DRAIN.
 - 13 1/2" CW AND HW, 2" VENT DOWN TO LAVATORY.
 - 14 4" INCOMING FIRE PROTECTION LINE.
 - 15 2" VENT DOWN TO HUB DRAIN IN WALL FOR DUCTLESS UNIT.
 - 16 3" TRAPPED HUB DRAIN IN WALL FOR DUCTLESS UNIT. SEE MECHANICAL DRAWINGS FOR LOCATION OF UNIT.
 - 17 1/2" CW AND HW, 2" VENT DOWN TO KITCHEN SINK.
 - 18 1/2" CW DOWN TO ICE MAKER BOX.
 - 19 2" INCOMING DOMESTIC WATER SERVICE WITH 2" BALL VALVE.
 - 20 3/4" CW AND HW, 2" VENT DOWN TO MOP SINK.
 - 21 SEE DETAIL 1/P6.02.
 - 22 NOT USED.
 - 23 HEAT TRACE EXTERIOR WATER LINES ON WATER HEATER AT 3 WATTS PER LINEAR FOOT OF PIPING. COORDINATE WITH ELECTRICAL CONTRACTOR.
 - 24 NOT USED.
 - 25 PROVIDE SPRINKLER PROTECTION FOR ORDINARY HAZARD, GROUP 1, OCCUPANCY CLASSIFICATION.

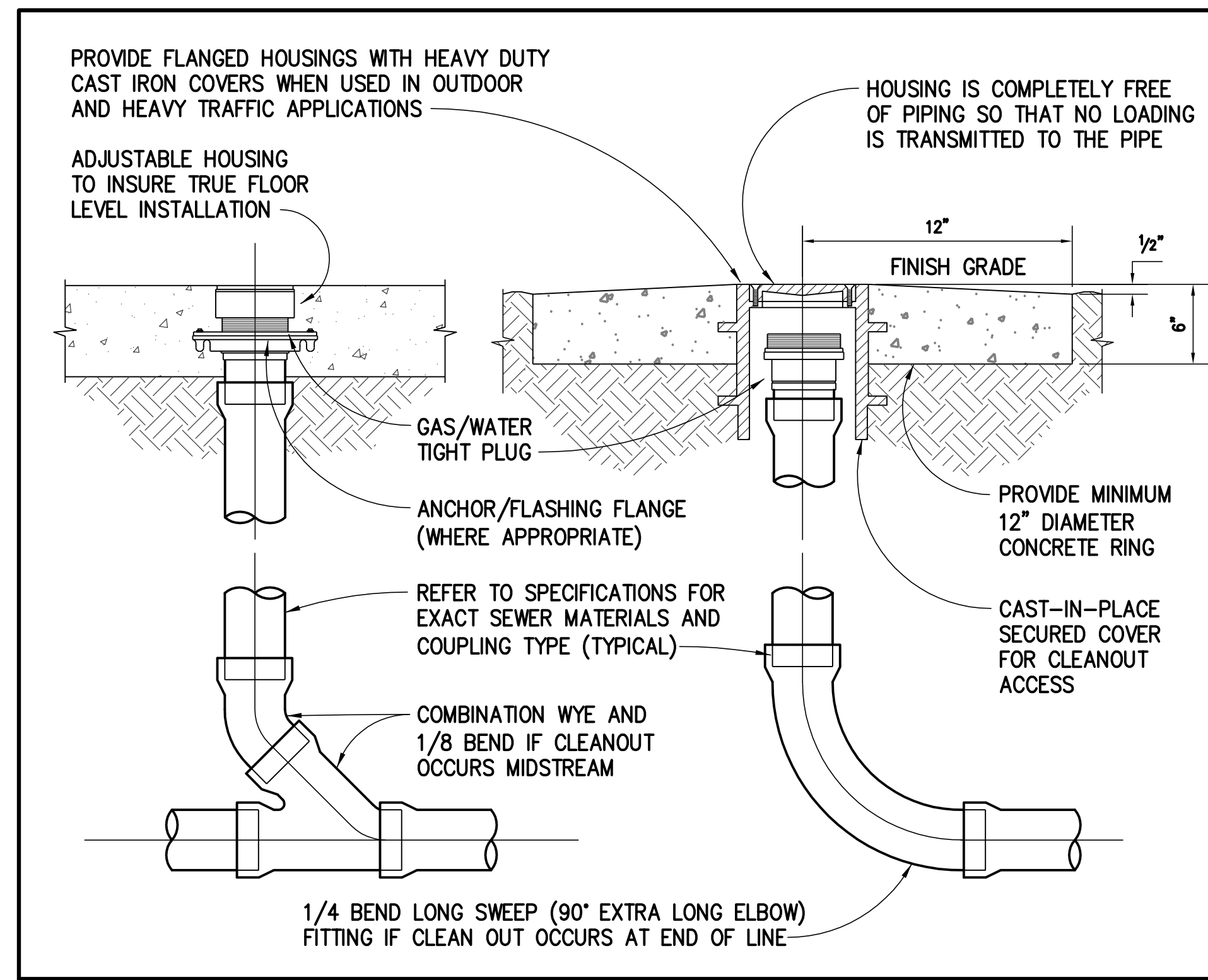


1 Plumbing and Fire Protection Level 1 Plan
SCALE: 1/4" = 1'-0"

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4/24/2014

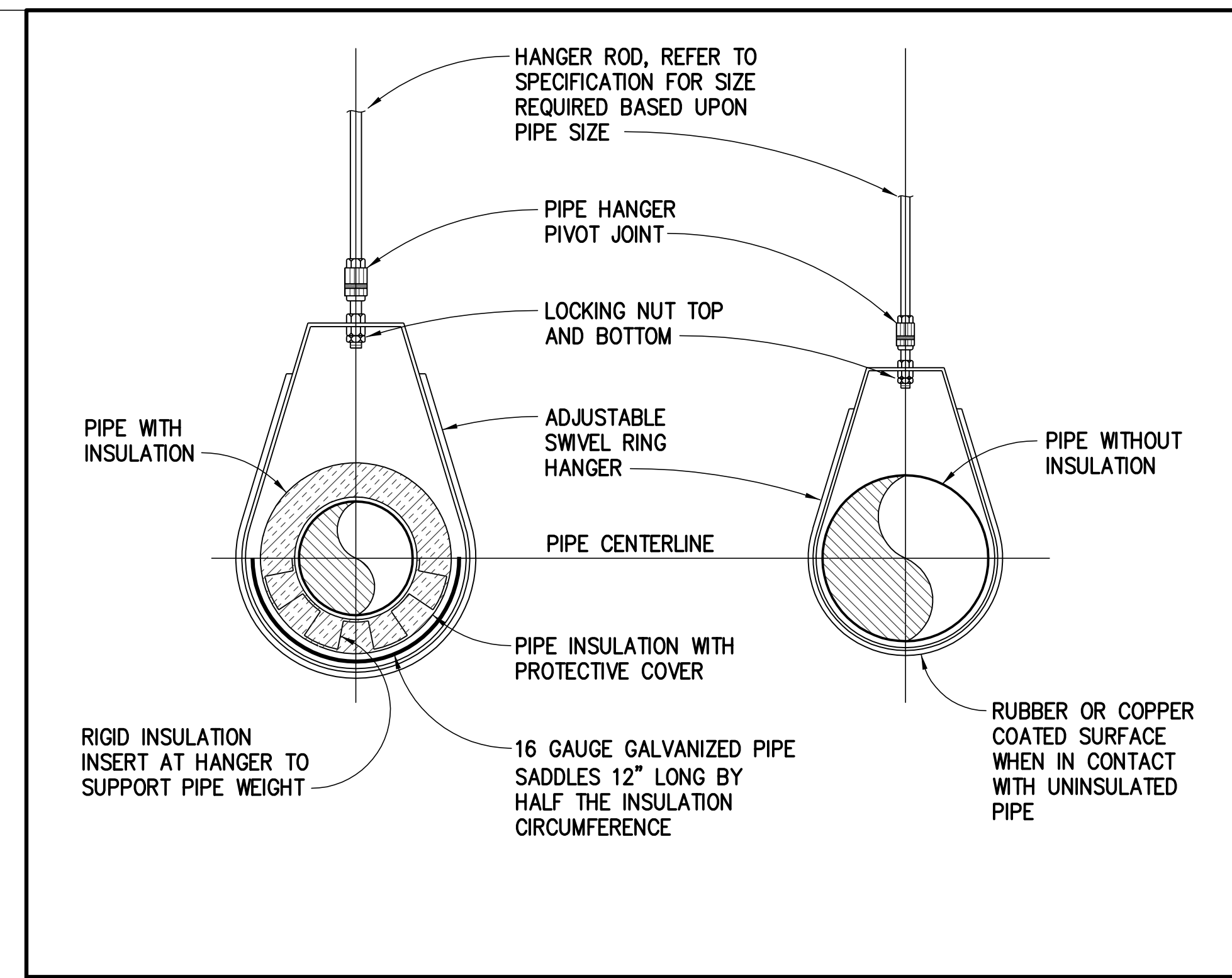


FLOOR/GRADE CLEANOUT DETAIL

NO SCALE

1

P6.01

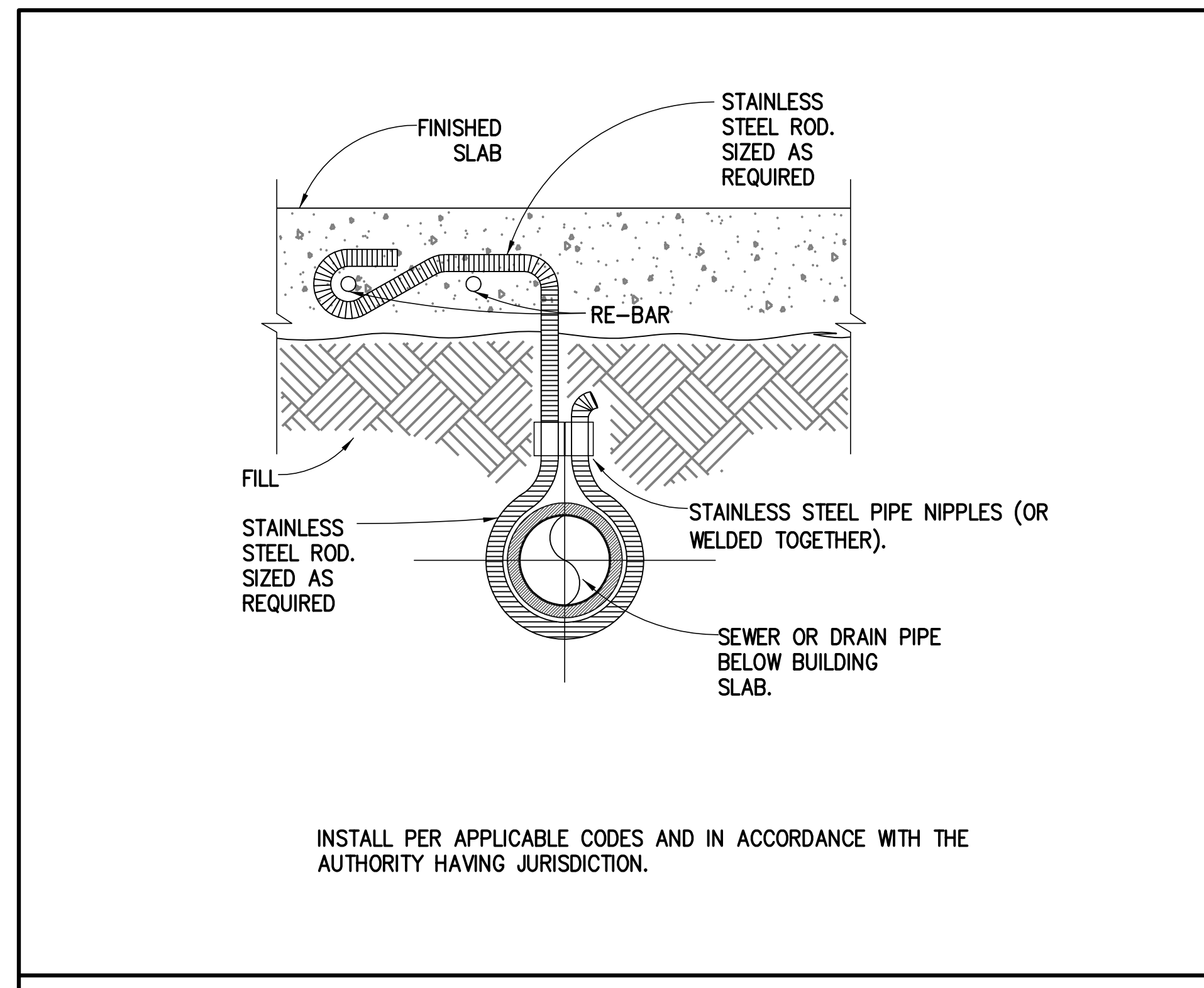


PIPE (4' AND LOWER) HANGER DETAIL

NO SCALE

2

P6.01

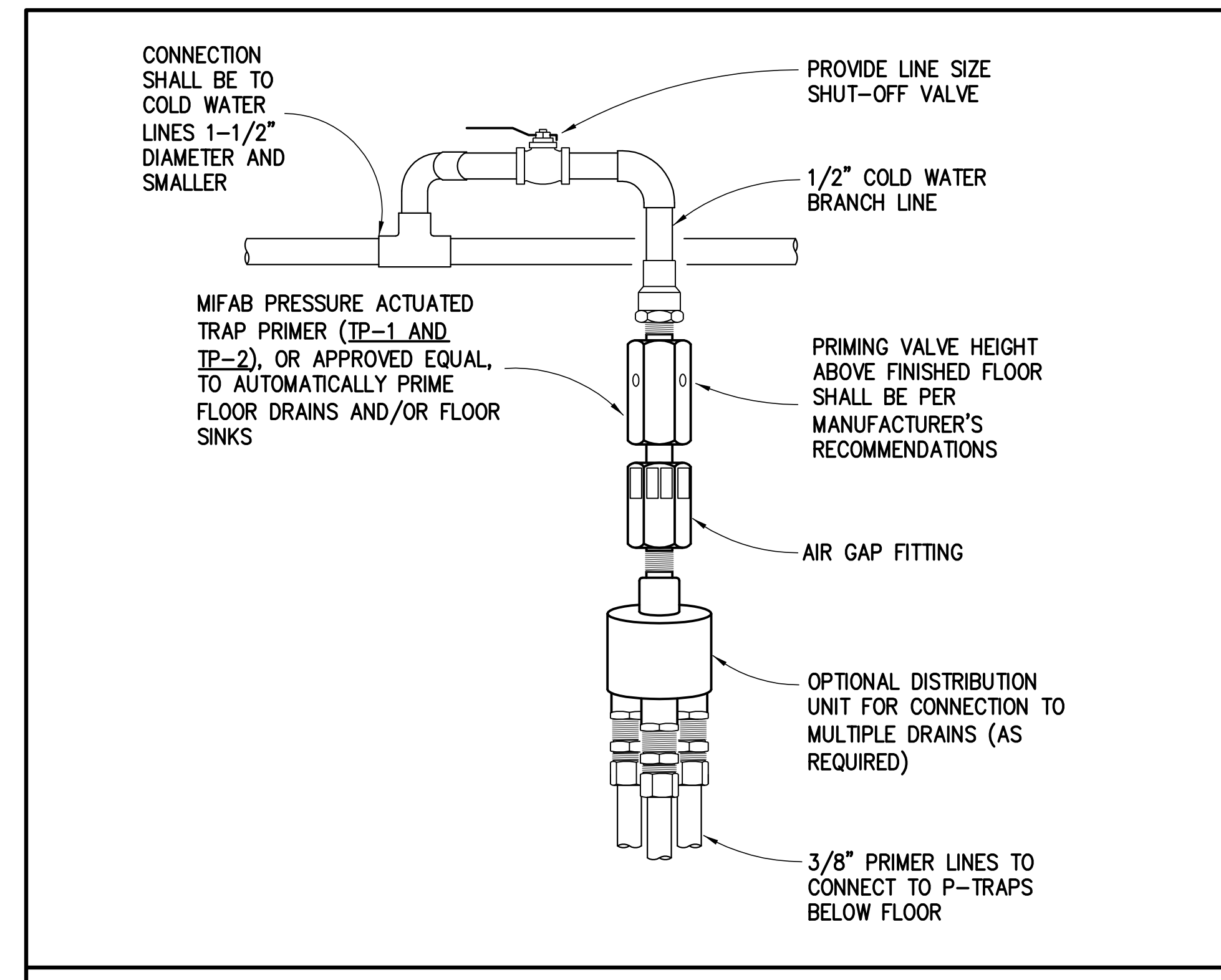


PIPE HANGER DETAIL

NO SCALE

3

P6.01



TRAP PRIMER DETAIL

NO SCALE

4

P6.01

St Bernard Parish Sheriff's Substation
47 Paris Road

DATE: 04/24/14
PROJECT NO.: 01-09-1082-02

REVISIONS:

No.	Date	Description

DRAWN BY: JLC
CHECKED BY: MMJ
SHEET TITLE

PLUMBING
DETAILS

SHEET NO

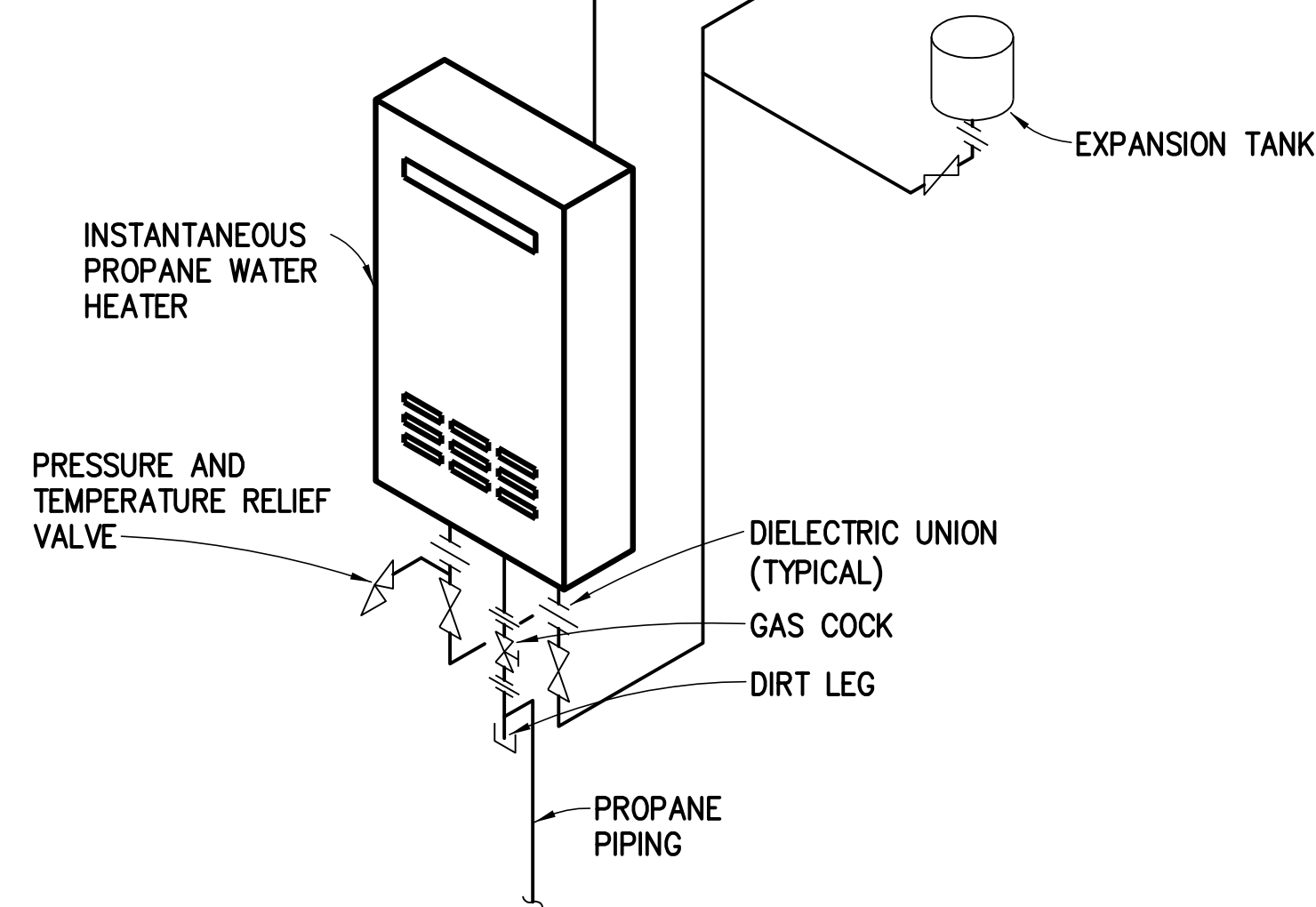
P6.01

#14.0078

NOTICE:

- HEAT TRACE DOMESTIC WATER PIPING ON THE EXTERIOR OF THE BUILDING AT 3 WATTS PER LINEAR FOOT. COORDINATE WITH ELECTRICAL CONTRACTOR.

REFER TO PLAN FOR SIZE (TYPICAL)



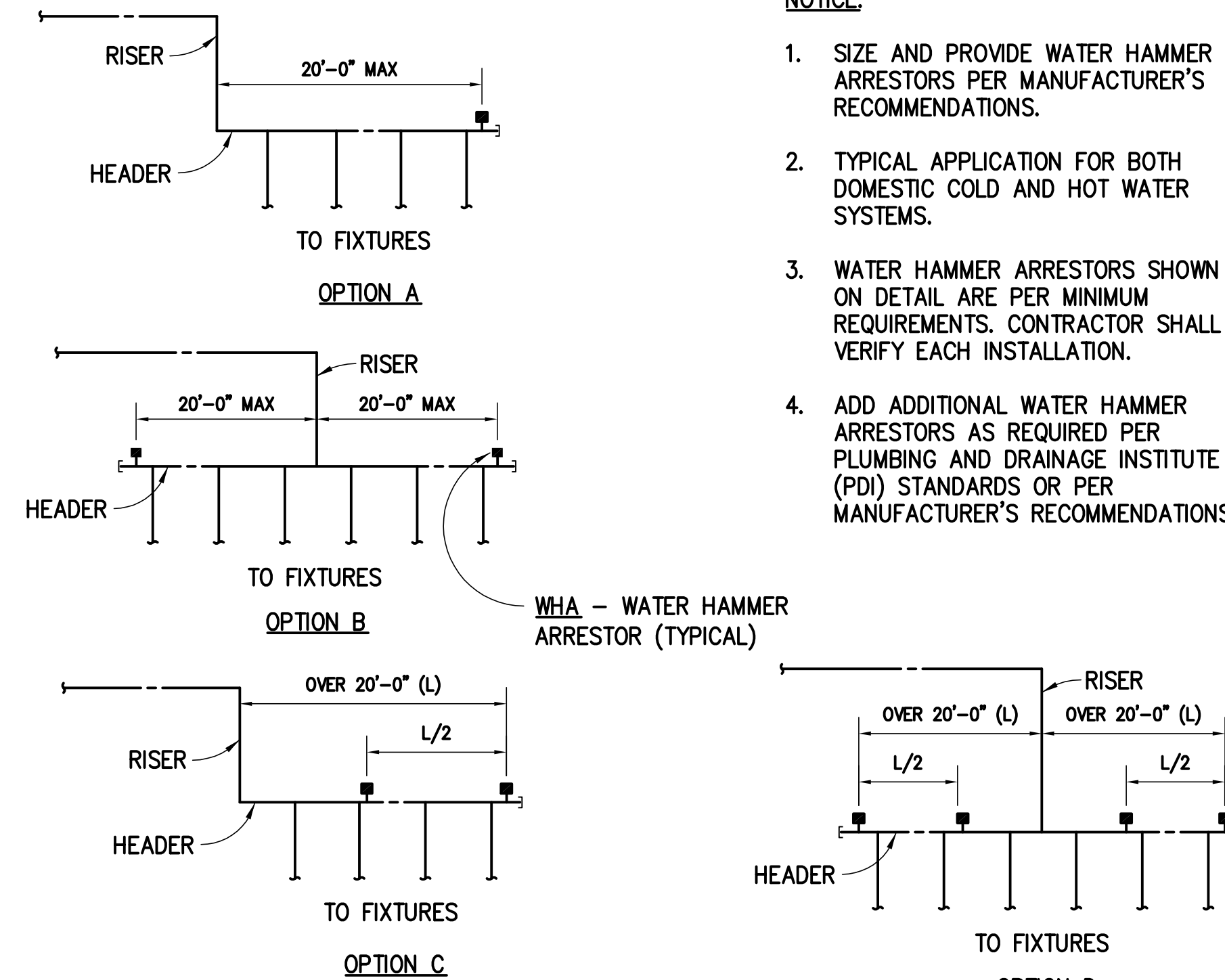
INSTANTANEOUS PROPANE WATER HEATER DETAIL 1

NO SCALE

P6.02

NOTICE:

- SIZE AND PROVIDE WATER HAMMER ARRESTORS PER MANUFACTURER'S RECOMMENDATIONS.
- TYPICAL APPLICATION FOR BOTH DOMESTIC COLD AND HOT WATER SYSTEMS.
- WATER HAMMER ARRESTORS SHOWN ON DETAIL ARE PER MINIMUM REQUIREMENTS. CONTRACTOR SHALL VERIFY EACH INSTALLATION.
- ADD ADDITIONAL WATER HAMMER ARRESTORS AS REQUIRED PER PLUMBING AND DRAINAGE INSTITUTE (PDI) STANDARDS OR PER MANUFACTURER'S RECOMMENDATIONS.



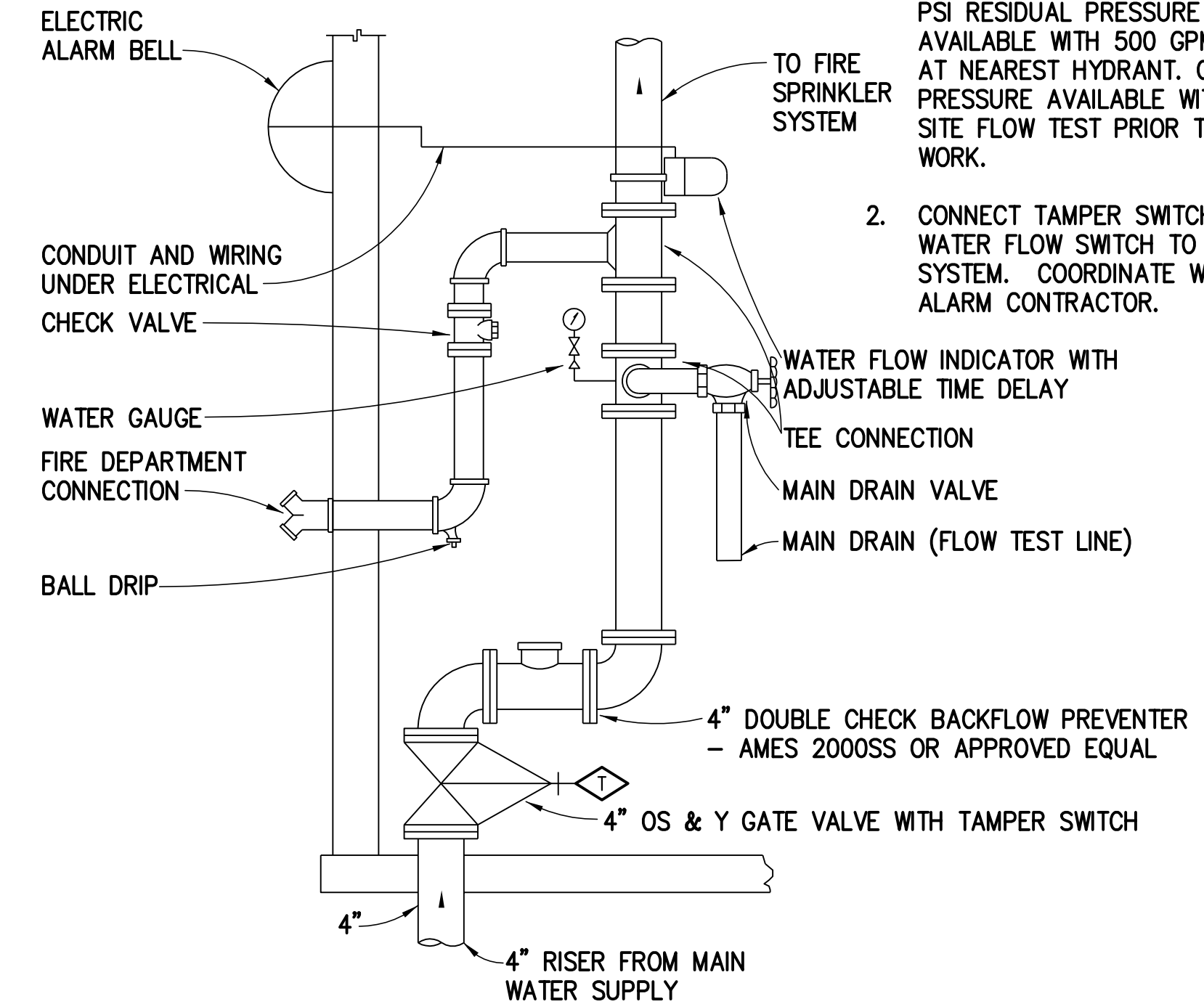
WATER HAMMER ARRESTOR DETAIL 2

NO SCALE

P6.02

NOTICE:

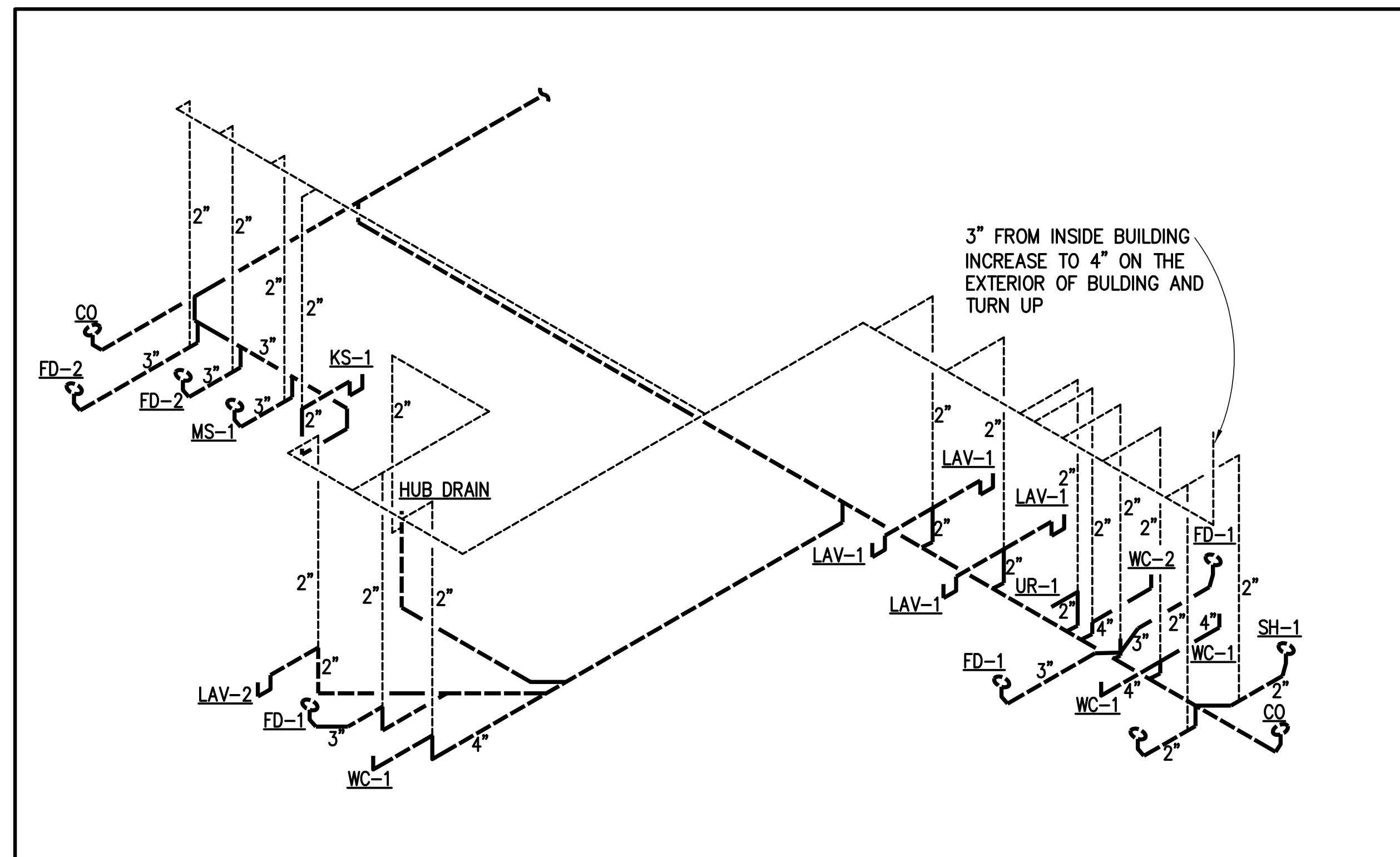
- FOR BIDDING PURPOSES ASSUME 50 PSI RESIDUAL PRESSURE IS AVAILABLE WITH 500 GPM FLOWING AT NEAREST HYDRANT. CONFIRM PRESSURE AVAILABLE WITH AN ON SITE FLOW TEST PRIOR TO BEGINNING WORK.
- CONNECT TAMPER SWITCH AND WATER FLOW SWITCH TO FIRE ALARM SYSTEM. COORDINATE WITH FIRE ALARM CONTRACTOR.



FIRE SPRINKLER RISER PIPING DETAIL 3

NO SCALE

P6.02



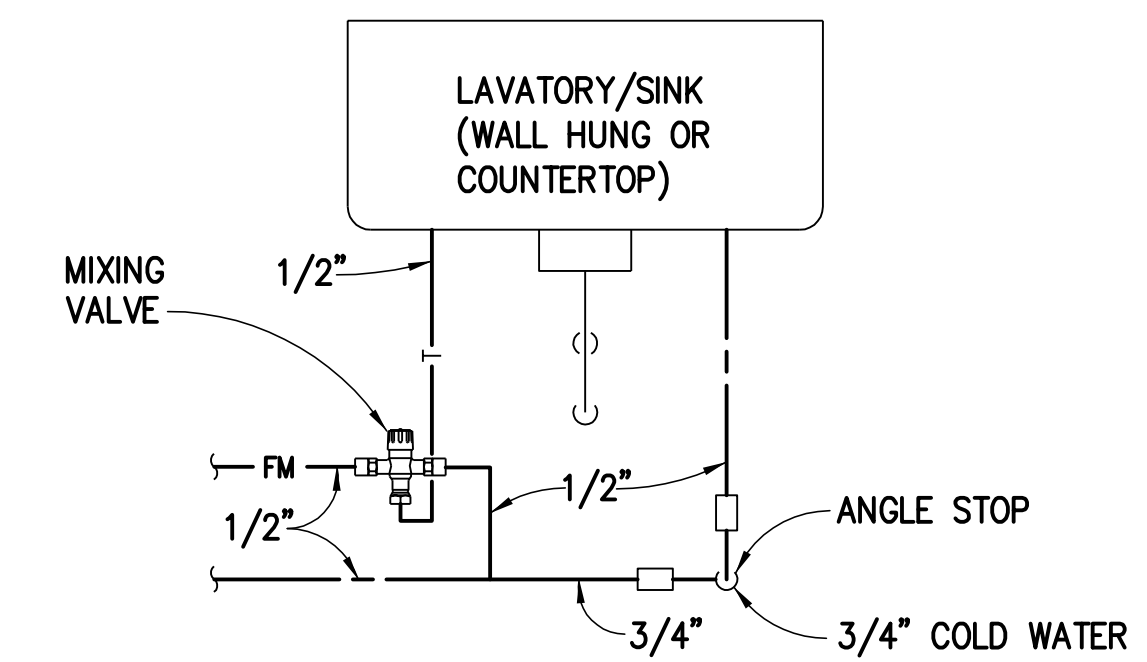
SANITARY WASTE AND VENT ISOMETRIC 4

NO SCALE

P6.02

NOTICE:

- SET MIXING VALVE OUTPUT TEMPERATURE TO 110°F (ADJUSTABLE).



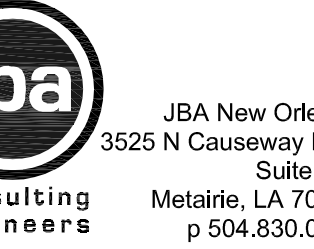
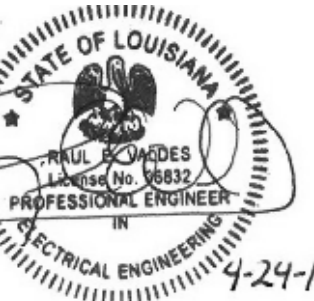
POINT OF USE MIXING VALVE DETAIL 5

NO SCALE

P6.02

4/24/2014

REVISIONS:		
No.	Date	Description



No.	Date	Description

SHEET INDEX

ISSUE	SHEET NUMBER	SHEET DESCRIPTION
2014-04-24 FOR BID, REVISED 2014-04-11 FOR BID	E0.00	ELECTRICAL COVER SHEET
	E0.01	COMMUNICATIONS SPECIFICATIONS
	E0.02	COMMUNICATIONS SPECIFICATIONS
	ES1.00	SITE PLAN
	E2.00	LIGHTING PLAN
	E3.00	ELECTRICAL PLAN
	E5.00	SINGLE LINE DIAGRAM
E6.00	DIAGRAMS	
E6.01	DIAGRAMS	

ELECTRICAL ABBREVIATION LIST

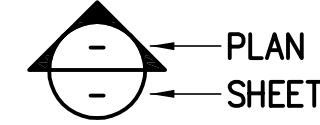
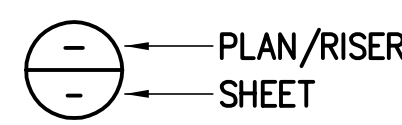
(THIS IS A MASTER LIST, NOT ALL ABBREVIATIONS MAY APPEAR ON DRAWINGS.)

+18"	MOUNTING HEIGHTS ARE TO CENTERLINE OF DEVICE ABOVE FINISH FLOOR OR FINISH GRADE
A	AMPERE
AFF	ABOVE FINISH FLOOR
AFCI	ARC FAULT CIRCUIT INTERRUPTER
C	CONDUIT WITH PULL-LINE ONLY
DB	DISTRIBUTION BOARD
DC	DIRECT CURRENT
DN	DOWN
EC	ELECTRICAL CONTRACTOR
FLA	FULL LOAD AMPS
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFP	GROUND FAULT PROTECTION
GRND	GROUND
HOA	HAND OFF AUTO
HZ	HERTZ
IBC	INTERNATIONAL BUILDING CODE
KW	KILOWATT
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPS
MIN	MINIMUM
MOC	MAXIMUM OVER CURRENT PROTECTION
MTD	MOUNTED
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NRTL	NATIONALLY RECOGNIZED TESTING LABORATORY
OC	ON CENTER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OSHPD	OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
PH(φ)	PHASE
PNL	PANEL
SQFT	SQUARE FEET
TMGB	MAIN TELECOMMUNICATION GROUNDING BUSBAR
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UNO	UNLESS NOTED OTHERWISE
V	VOLT
VA	VOLT-AMP
VD	VOLTAGE DROP
W	WATT
WP	WEATHER-PROOF (NEMA 3R)

ELECTRICAL SYMBOL LEGEND

(THIS IS A MASTER LEGEND, NOT ALL SYMBOLS MAY APPEAR ON DRAWINGS.)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SHEET NOTE REVISION NUMBER		DUPLEX RECEPTACLE AT +18" UNLESS NOTED. NUMBER INDICATES BRANCH CIRCUIT. PROVIDE WIRING AS NECESSARY.		GROUND BUS AND GROUND ELECTRODES
	FLUORESCENT FIXTURE		GFCI RECEPTACLE AT +48" UNLESS NOTED		2"x6" WIRE MESH CABLE TRAY (LENGTH AS PER DWGS)
	FLUORESCENT FIXTURE ON EMERGENCY CIRCUIT OR INTEGRAL BATTERY BACK-UP		DOUBLE DUPLEX RECEPTACLE AT +18" UNLESS NOTED		FIRE ALARM CONTROL PANEL
	LETTER INDICATES LIGHT FIXTURE TYPE AS INDICATED ON FIXTURE SCHEDULE. NUMBER INDICATES BRANCH CIRCUIT, PROVIDE WIRING AS REQUIRED.		SPECIAL RECEPTACLE AT +18" UNLESS NOTED	COMMUNICATIONS DEVICES	
	FLUORESCENT FIXTURE		POWER/DATA/AV FLUSH FLOOR BOX. PROVIDE WITH INTEGRAL DUPLEX AND TELE/DATA OUTLET.		JUNCTION BOX FOR WIRELESS LAN - CEILING MOUNTED (2) 4 PAIR CATEGORY 6 DATA CABLES WITH 2 PORT FACEPLATE
	FLUORESCENT FIXTURE		RECEPTACLE INSTALLED ABOVE COUNTER		TELEPHONE AND DATA OUTLET, (2) PAIR (1 VOICE, 1 DATA) CATEGORY 6 CABLE WITH 4 PORT FACEPLATE. CAT 6 CABLES SHALL BE TERMINATED AT PATCH PANEL
	FLUORESCENT FIXTURE		JUNCTION BOX		TV OUTLET. CONSISTS OF (1) DUPLEX RECEPTACLE RECESSED IN WALL, (1) COAX RECEPTACLE, & (1) DATA RECEPTACLE. INDIVIDUAL OUTLET BOXES MOUNTED AT THE SAME HEIGHT 6" ON CENTER.
	FLUORESCENT FIXTURE		NON-FUSED DISCONNECT SWITCH	FIRE ALARM DEVICES	
	FLUORESCENT FIXTURE		FUSED DISCONNECT SWITCH		FIRE ALARM ADA/ANSI STROBE - CEILING MOUNTED @ MAXIMUM 30' AFF
	FLUORESCENT FIXTURE		COMBINATION NON-FUSED SWITCH AND STARTER AS NOTED ABOVE		FIRE ALARM HORN WITH ADA/ANSI STROBE - CEILING MOUNTED.
	DOWNLIGHT FIXTURE		SURFACE MOUNTED PANELBOARD		SMOKE DETECTOR
	DOWNLIGHT FIXTURE ON EMERGENCY CIRCUIT OR INTEGRAL BATTERY BACK-UP		HOMERUN CONDUIT - STROKES INDICATE QUANTITY OF CONDUCTORS		HEAT DETECTOR
	WALL MOUNTED FIXTURE		CONDUIT AND/OR WIRE CONCEALED IN WALL OR ABOVE CEILING EXCEPT IN EXPOSED STRUCTURE AREAS		FIRE ALARM MANUAL PULLSTATION @ 48" AFF
	EXIT LIGHT WITH DIRECTIONAL ARROWS AS INDICATED CEILING MOUNTED		CONDUIT AND/OR WIRE BELOW FLOOR OR GRADE		FLOW SWITCH
	DOUBLE FACE EXIT LIGHT WITH DIRECTIONAL ARROWS AS INDICATED CEILING MOUNTED		1/2"-2 #12 & 1 #12 GRND THWN UNLESS NOTED		TAMPER SWITCH
	SINGLE POLE SWITCH AT +48" UNLESS NOTED. SUBSCRIPT DENOTES FIXTURES CONTROLLED. IF NO SUBSCRIPT, SWITCH SHALL CONTROL FIXTURES IN AREA. PROVIDE WIRING AS NECESSARY.		1/2"-3 #12 & 1 #12 GRND THWN UNLESS NOTED	SECURITY DEVICES	
	3-WAY POLE SWITCH AT +48" UNLESS NOTED		GROUNDING ELECTRODE		CARD READER
	SWITCH WITH MOTION SENSOR		SINGLE METER WITH CT		OUTLET FOR FUTURE CAMERA MOUNTED FLUSH WITH WALL/CEILING. VERIFY EXACT MOUNTING LOCATION/HEIGHT WITH OWNER PRIOR TO ROUGH-IN.
	DUAL SWITCH WITH MOTION SENSOR		FEEDER - SIZE AS INDICATED ON FEEDER SCHEDULE	MECHANICAL EQUIPMENT TYPE	
	2 POLE SWITCH		MECHANICAL EQUIPMENT - SEE HVAC AND PLUMBING DRAWINGS	MECHANICAL EQUIPMENT NUMBER	
	THERMAL OVERLOAD SWITCH		METER	E = EXISTING	
	SWITCH WITH DIGITAL TIMER				



FIXTURE SCHEDULE

FIXT. TYPE	MANUFACTURER		VOLT AMPS	MOUNTING	LAMP TYPE	REMARKS	VOLT
	NAME	CATALOG NUMBER					
A	METALUX	2GC8-232A125S-UNV-EB81	53	RECESSED	(2) F32T8 / 3500K	2'x4' 2-LAMP FLUORESCENT LENSED GRID TROFFER	120
AE	METALUX	2GC8-232A125S-UNV-EB81-EL-14	53	RECESSED	(2) F32T8 / 3500K	2'x4' 2-LAMP FLUORESCENT LENSED GRID TROFFER WITH EMERGENCY BATTERY PACK	120
B	METALUX	2GC8-332A125S-UNV-EB82	91	RECESSED	(3) F32T8 / 3500K	2'x4' 3-LAMP, 2-BALLAST FLUORESCENT LENSED GRID TROFFER	120
C	METALUX	2FC8-2328125S-UNV-EB81	53	RECESSED	(2) F32T8 / 3500K	2'x4' 2-LAMP FLUORESCENT LENSED FLANGED TROFFER	120
D	METALUX	WE-232A-UNV-EB81	61	SURFACE	(2) F32T8 / 3500K	4' 2-LAMP FLUORESCENT WRAPAROUND	120
FE	METALUX	SSF-332-UNV-EB81-WG / SSF-4FT-EL-14	80	SUSPENDED	(3) F32T8 / 3500K	4-0" 3-LAMP FLUORESCENT STRIP WITH WIRE GUARD WITH EMERGENCY BATTERY PACK	120
G	HALO	PD8V142-E-80VC	42	RECESSED	(1) 42TRT / 3500K	8" DIA. 1-LAMP COMPACT FLUORESCENT DOWNLIGHT	120
GE	HALO	PD8V142-IEM-80VEMC	42	RECESSED	(1) 42TRT / 3500K	8" DIA. 1-LAMP COMPACT FLUORESCENT DOWNLIGHT WITH EMERGENCY BATTERY PACK, DAMP LOCATION LISTED	120
HE	VANTAGE	A8VPLED-1-28-40K-L8060-SCL-EM	60	RECESSED	FURN WITH FIXTURE / 4000K	8" DIAMETER LED RECESSED DOWNLIGHT WITH EMERGENCY BATTERY PACK	120
JE	MCGRAW EDISON	ISC-B02-LED-E1-BL3-TR-8030-BBB	51	WALL	FURN WITH FIXTURE / 4000K	SMALL LED WALL PACK WITH EMERGENCY BATTERY PACK	120
K	GOTHAM	LGPL-1/42TRT-8DFR-MVOLT	42	RECESSED	(1) 42TRT / 3500K	8" DIA. 1-LAMP COMPACT FLUORESCENT DOWNLIGHT, WET LOCATION LISTED	120
L	INVUE	VFS-B40-3-LED-E1-WST	46	WALL	FURN WITH FIXTURE / 4000K	SMALL LED FLOODLIGHT	120
M	COOPER LUMIERE	3002N-RD-18LED3000-SP-NSL-UNV-BZ	18	IN-GRADE	LED / 3000K	7.5" ROUND IP68 RATED INGROUND NON-ADJUSTABLE 9' SPOT LED WITH 1/2" DRIVE-OVER NON-SLIP TEMPERED GLASS LENS AND PAINTED BRONZE FINISH. DIMMABLE TO 15%.	UNV
N	MCGRAW EDISON	TLM-B06-LED-E1-SLL-DM W/ SSS4A25SF POLE	146	POLE	FURN WITH FIXTURE / 4000K	POLE MOUNTED LED FIXTURE	120
O	MCGRAW EDISON	TLM-B06-LED-E1-SLR-DM W/ SSS4A25SF POLE	146	POLE	FURN WITH FIXTURE / 4000K	POLE MOUNTED LED FIXTURE	120
P	METALUX	2GC8-432A125S-UNV-E82	107	RECESSED	(4) F32T8 / 3500K	2'x4' 4-LAMP, 2-BALLAST FLUORESCENT LENSED GRID TROFFER	120
XAE	SURE-LITES	CX7-1	5	SURFACE	FURN WITH FIXTURE / 4000K	DIE CAST SINGLE FACE LED EXIT SIGN ARROWS AND MOUNTING PER DRAWING WITH EMERGENCY BATTERY PACK	120
XBE	SURE-LITES	CX7-2	5	SURFACE	FURN WITH FIXTURE / 4000K	DIE CAST DOUBLE FACE LED EXIT SIGN ARROWS AND MOUNTING PER DRAWING WITH EMERGENCY BATTERY PACK	120

DIVISION 27 - COMMUNICATION SPECIFICATIONS

PART 1 - GENERAL

A. GENERAL

1. HORIZONTAL COPPER CABLING SYSTEM CONSISTS OF CATEGORY 6 CABLES WITH FOUR UNSHIELDED TWISTED PAIRS OF SOLID ANNEALED COPPER WRAPPED IN NON-PLENUM RATED INSULATION WITH AN OVERALL PVC RATED JACKET WITH A WIRE THICKNESS OF 23-26 AWG. EACH FOUR PAIR IS TERMINATED ONTO 8 POSITION 8 CONDUCTOR. CATEGORY 6 CONNECTORS USING 110 STYLE IDCs. CONNECTORS ARE PLACED INTO NEMA SIZED FACEPLATES AT THE WORK AREA AND PLACED INTO RACK MOUNTED CATEGORY 6 PATCH PANELS IN THE EQUIPMENT/NETWORK ROOMS.
2. COPPER CABLING SYSTEM USING A 4 PAIR UNSHIELDED TWISTED PAIR CABLE THAT IS CAPABLE OF TRANSPORTING AND SUPPORTING NETWORK SPEEDS UP TO 1 GIGABIT PER SECOND USING CATEGORY 6.
3. BACKBONE COPPER CABLING SYSTEM CONSISTS OF CATEGORY 6 CABLES WITH MULTIPLE PAIRS OF UNSHIELDED TWISTED PAIRS OF SOLID ANNEALED COPPER WRAPPED IN PVC RATED INSULATION WITH AN OVERALL PVC JACKET IN BUNDLES OF 25, 50, 100 OR 300 PAIRS WITH A WIRE THICKNESS OF 24 AWG. ALL CONDUCTORS ARE TERMINATED ONTO 110 STYLE BLOCKS WITH C5 IDC CLIPS AND ARE PLACED ONLY IN EQUIPMENT/NETWORK ROOMS.
4. BACKBONE OPTICAL FIBER CABLING SYSTEM CONSISTS OF SINGLE MODE AND/OR MULTIMODE GLASS IN CONFIGURATIONS OF MULTIPLES OF 6 OR 12 STRANDS WITH COLOR CODED 900 MICRON BUFFER TUBING WRAPPED WITH AN AQUA OR ORANGE JACKET FOR MULTIMODE AND A YELLOW JACKET FOR SINGLE MODE. ALL STRANDS ARE TERMINATED USING LC CONNECTORS AND PLACED INTO RACK MOUNTED METAL PANELS WITH PLATES CONTAINING ADAPTER SLEEVES TO COUPLE THE CONNECTORS TOGETHER FOR A PHYSICAL CONTACT. PANELS ARE PLACED ONLY IN THE EQUIPMENT/NETWORK ROOMS. SEE DRAWING PACKAGE FOR SPECIFIC FIBER TYPE AND QUANTITY REQUIREMENTS.
5. CABLE MANAGEMENT PRODUCTS ARE USED WITHIN THE RACKS AND CABINETS ALONG WITH WALL TERMINATION/PATCHING POINTS WHILE MAINTAINING REQUIRED BEND RADIUS REQUIREMENTS.
6. RACK OR CABINET MOUNTED POWER PROTECTION FOR SURGE SUPPRESSION, TRANSIENT VOLTAGE SUPPRESSION AND CURRENT DRAW METERING ARE NECESSARY TO PROTECT SENSITIVE NETWORKING EQUIPMENT FROM DAMAGE WHILE ALLOWING FOR A CENTRALIZED LOCATION FOR EQUIPMENT POWER.
7. INSTALL AND HANDLE ALL COMPONENTS AS DIRECTED BY MANUFACTURER'S INSTALLATION GUIDELINES.
8. ALL PRODUCTS SHALL BEAR THE MARK OF UL OR ETL FOR PERFORMANCE LEVEL.
9. SYSTEM INSTALLATION SHALL MEET ALL APPLICABLE LOCAL/STATE CODES, ORDINANCES AND SAFETY REQUIREMENTS WHERE PROJECT IS LOCATED.
10. ALL PRODUCTS SHALL BE NEW AND UNUSED IN ORIGINAL PACKAGING.
11. MANUFACTURER SHALL BE A TELECOMMUNICATIONS PRODUCT MANUFACTURER WITH AT LEAST 15 YEARS EXPERIENCE.
12. CONTRACTOR SHALL BE A LICENSED TO INSTALL TELECOMMUNICATIONS SYSTEM IN THE STATE WHERE WORK WILL BE PERFORMED.
13. CONTRACTOR SHALL HAVE A MINIMUM OF 5 YEARS EXPERIENCE INSTALLING STRUCTURED CABLING FOR TELECOMMUNICATIONS.
14. CONTRACTOR SHALL HAVE THE CAPABILITY TO BOND PROJECT IN ITS ENTIRETY.
15. CONTRACTOR SHALL BE ABLE TO PROVIDE INSURANCE AT THE REQUEST OF THE OWNER.
16. INSTALLER SHALL HAVE AN ON SITE SUPERVISOR AND ON SITE TECHNICIAN WHO ARE CERTIFIED BY THE MANUFACTURER TO INSTALL THE MANUFACTURER'S TELECOMMUNICATIONS PRODUCTS.
17. CONTRACTOR SHALL HAVE AN RCDD ON STAFF TO CERTIFY THAT THE COMMUNICATIONS SYSTEM CAN SUPPORT THE REQUIRED APPLICATIONS OF THE VARIOUS CABLING MEDIA.
18. CONTRACTOR SHALL HAVE OBTAINED CERTIFIED TRAINING FROM THE MANUFACTURER WITHIN 1 YEAR PRIOR TO PERFORMING THE WORK.
19. CONTRACTOR SHALL ENSURE THAT MATERIALS DELIVERY TO WORK AREA SHALL BE COORDINATED WITH CONSTRUCTION SITE MANAGER RESPONSIBLE FOR MATERIALS DISTRIBUTION TO ALL TRADES.
20. CONTRACTOR IS RESPONSIBLE FOR ALL MATERIALS, TOOLS AND VEHICLES LEFT ON THE JOB SITE.
21. CONTRACTOR SHALL COORDINATE A DISPOSAL BIN FOR THE REMOVAL OF ALL TRASH PRODUCED BY THE CONTRACTOR PERSONNEL DURING THE PROJECT.
22. CONTRACTOR SHALL ENSURE MATERIALS ARE STORED IN AN ENVIRONMENTAL AREA WHERE: TEMPERATURE DOES NOT EXCEED 120 DEGREES FAHRENHEIT NOR BELOW 32 DEGREES FAHRENHEIT, HUMIDITY DOES NOT EXCEED 80%, NO DIRECT EXPOSURE TO SUNLIGHT.
23. CONTRACTOR SHALL PROVIDE A DETAILED CONSTRUCTION SCHEDULE WITH HARD DATES FOR COMPLETION OF ROUGHING IN CABLES, TERMINATIONS AND TESTING (ONCE OVERALL SCHEDULING SEQUENCE HAS BEEN DETERMINED) TO THE OWNER'S PROJECT MANAGER.
24. CABLING SCHEDULE SHALL BE IN A SOFTWARE PROGRAM DESIGNATED BY THE OWNER'S PROJECT MANAGER.
25. CONTRACTOR SHALL COORDINATE WITH OWNER'S PROJECT MANAGER ON SEQUENCING OF VARIOUS TRADES AND CONSTRUCTION TEAMS FOR THE LIFECYCLE OF THE PROJECT.
26. CONTRACTOR SHALL PROVIDE A 1 YEAR PARTS AND LABOR WARRANTY AGAINST DEFECTIVE WORKMANSHIP AND/OR SYSTEM COMPONENT FAILURE.

27. CONTRACTOR SHALL EXECUTE APPLICATIONS ASSURANCE WARRANTY FOR PARTS AND LABOR TO SUPPORT STATED APPLICATIONS WARRANTY PERIOD FROM THE CONNECTIVITY MANUFACTURER.
- B. SUBMITTALS**
1. PRODUCT DATA WITH BID WILL PROVIDE COMPONENT DESCRIPTIONS AND DESCRIBE ELECTRICAL CHARACTERISTICS OF COMPONENTS.
 2. SUBMIT A SAMPLE OF ONE 48 PORT PATCH PANEL, ONE 2 RMU, FIVE RING, WIRE MANAGEMENT AND ONE 100 PAIR TERMINATION BLOCK WITH ONE C5 CLIP PRIOR TO INSTALLATION.
 3. SHOW OVERHEAD VIEW AND FRONT VIEW RACKS AND CABINETS WITH EQUIPMENT, ALONG WITH LADDER RACKING WITHIN EQUIPMENT ROOMS ON PROPOSED SHOP DRAWING IN CAD PRIOR TO STARTING THE WORK FOR APPROVAL BY OWNER.
 4. PROVIDE ONE FULL SIZE AND ONE HALF SIZE SET HARD COPY AND A SOFT CAD COPY AS-BUILT OF THE EQUIPMENT ROOMS SHOWING LAYOUT OF RACKS, CABINETS, LADDER RACKING, AND ALL WALL MOUNTED EQUIPMENT UPON SUBSTANTIAL COMPLETION.
 5. PROVIDE A WARRANTY STATEMENT FROM THE CONNECTIVITY MANUFACTURER FOR APPLICATIONS ASSURANCE AND THAT THE OWNER IS ENTITLED TO ALL RIGHTS GUARANTEED BY THE WARRANTY.
 6. PROVIDE AN AFFIDAVIT BY AN EXECUTOR OF THE CONTRACTOR THAT ALL BACKBONE COPPER PAIRS HAVE BEEN VERIFIED FOR CONTINUITY USING A HAND HELD TESTER.
 7. PROVIDE ONE FULL SIZE AND ONE HALF SIZE SET HARD COPY AND SOFT CAD COPY AS-BUILT OF THE FLOOR PLAN SHOWING PATHWAY, FOOTAGES AND LABELING SEQUENCE OF ALL OPTICAL FIBER CABLES, COPPER CABLES, COPPER PAIRS AND FIBER STRANDS AND LABELING SEQUENCE OF ALL CABLES ALL FACEPLATES UPON SUBSTANTIAL COMPLETION.
 8. SUBMIT 5' SECTION OF PROPOSED BACKBONE CABLE TO BE INSTALLED ALONG WITH A 100 PAIR WIRING BASE WITH LEGS AND ON C5 CLIP. SHOW CABLE WRAPS WITH PROPOSED LABELING CONVENTION ON COPPER CABLE.
 9. SHOW PATHWAY, FOOTAGES AND LABELING SEQUENCE OF ALL CABLES ON SHOP DRAWING IN CAD PRIOR TO STARTING WORK FOR APPROVAL BY OWNER.
 10. PROVIDE THE MOST CURRENT UL OR ETL TEST RESULTS SHOWING CATEGORY 6 AND CATEGORY 6 COMPLIANCE FOR THE PROPOSED CABLING SYSTEM.
 11. SUBMIT 10' SECTIONS OF PROPOSED HORIZONTAL CABLES TO BE INSTALLED ALONG WITH TERMINATED CATEGORY 6 CONNECTORS ON ENDS TO BE INSTALLED. SHOW CABLE WRAPS WITH PROPOSED LABELING CONVENTION ON CABLE.
 12. PROVIDE A HARD COPY AND SOFT COPY OF PROPOSED TEST RESULTS TO BE SUBMITTED IN THE LEVEL III OR LEVEL IV TDR TESTER'S NATIVE FORMAT FOR VERIFICATION OF ELECTRICAL PERFORMANCE.

PART 2 - PRODUCTS

A. GENERAL

1. HORIZONTAL CABLES FROM THE HORIZONTAL CROSS-CONNECT (HC) TO THE TELECOMMUNICATIONS OUTLET/CONNECTOR MUST BE NO MORE THAN 90M (295FT) LONG.
2. HORIZONTAL CABLES USED FOR PATCH CORDS AND CROSS-CONNECT JUMPERS IN THE HORIZONTAL CROSS-CONNECT (HC) MUST BE NO MORE THAN 5M (16FT) LONG.
3. NOTE: A 10M (33FT) ALLOWANCE IS MADE FOR THE COMBINED LENGTH OF PATCH CORDS AND CABLES USED TO CONNECT EQUIPMENT IN THE WORK AREA AND TELECOMMUNICATIONS ROOM (TR) OR TELECOMMUNICATIONS ENCLOSURE (TE). ALL EQUIPMENT CORDS MUST MEET THE SAME PERFORMANCE REQUIREMENTS AS THE PATCH CORDS. EQUIPMENT CORDS DIFFER FROM PATCH CORDS AND CROSS-CONNECT JUMPERS IN THAT THEY ATTACH DIRECTLY TO THE ACTIVE EQUIPMENT; PATCH CORDS AND CROSS-CONNECT JUMPERS DO NOT ATTACH DIRECTLY TO ACTIVE EQUIPMENT.
4. BACKBONE MULTIPAIR CATEGORY 6 COPPER CABLING SYSTEM SHALL BE CAPABLE OF SUPPORTING ANALOG AND DIGITAL VOICE GRADE APPLICATIONS THAT OPERATE AT OR BELOW 16 MEGAHERTZ FOR A TOTAL DISTANCE OF 800 METERS WITH EQUIPMENT CORDS.
5. BACKBONE OPTICAL FIBER CABLING SYSTEM SHALL BE CAPABLE OF SUPPORTING 10GBASE-SX APPLICATIONS FOR A TOTAL DISTANCE OF 300 METERS WITH EQUIPMENT CORDS.
6. BASE BID MANUFACTURERS ARE SUBJECT TO OWNER'S FINAL APPROVAL OF BID RESPONSES SUBMITTED BY CONTRACTOR. IN ORDER TO ASSURE ACHIEVEMENT OF MAXIMUM SYSTEM PERFORMANCE, INDIVIDUAL COMPONENTS MUST BE PERFORMANCE-CERTIFIED TO MATCH INTERFACING AND INTERACTIVE COMPONENTS. PRODUCTS MUST NOT BE MIXED AND MATCHED BETWEEN DIFFERENT VENDORS. VENDOR SOLUTIONS MUST BE IMPLEMENTED AS SINGLE VENDOR END-TO-END ENGINEERED SYSTEMS TO ASSURE COMPATIBILITY.

B. EQUIPMENT ROOM FITTINGS

1. FREE STANDING EQUIPMENT RACKS USED FOR THE MOUNTING AND HOUSING OF PASSIVE AND ACTIVE NETWORKING EQUIPMENT SHALL BE MADE OF STRONG AND LIGHTWEIGHT METAL, POWDER COATED BLACK.
2. FREE STANDING RACKS SHALL BE 84" IN HEIGHT AND 19" IN WIDTH.
3. FREE STANDING RACKS SHALL ACCOMMODATE EQUIPMENT SPACE TOTALING 45 RACK MOUNT UNITS.
4. FREE STANDING RACKS SHALL BE SIZED TO ACCEPT 19" SPACED EQUIPMENT AND HANDLE A TOTAL WEIGHT LOAD OF 1,000 POUNDS.
5. FREE STANDING RACKS SHALL HAVE 3" SIDE RAILS TAPPED ON BOTH SIDES WITH UNIVERSAL HOLE PATTERNS FOR THREADED 10-32 SCREWS. RACK UNIT SPACING SHALL BE LABELED.
6. FREE STANDING EQUIPMENT CABINETS USED FOR THE MOUNTING AND HOUSING OF PASSIVE AND ACTIVE NETWORKING EQUIPMENT SHALL BE MADE OF WELDED 4 POST STEEL FRAMES.
7. CABINETS SHALL BE 84" IN HEIGHT, 23" IN WIDTH, AND 36" IN DEPTH.

8. CABINETS SHALL HAVE LOUVERED REAR DOORS, SOLID SIDE PANELS AND TOP PANELS WITH CABLE ENTRY PORTS AND FAN CUT OUTS THAT ARE CONSTRUCTED OF STEEL.
9. ALL CABINET DOORS SHALL BE REVERSIBLE TO ALLOW FOR LEFT OR RIGHT OPENING.
10. HIGH PAIR COUNT TERMINATION BLOCKS SHALL BE 300 PAIR BLOCKS FOR CATEGORY 6 MULTIPAIR CABLES.
11. ADDITIONAL 300 PAIR BLOCKS SHALL BE FOR INCREASING PAIR COUNT OF CATEGORY 6 MULTIPAIR CABLES.
12. TERMINATION BLOCKS SHALL HAVE A MOUNTING FRAME KIT WITH CABLE TRAY, C4/5 CONNECTORS, 100 PAIR BASES, HORIZONTAL CORD MANAGERS, LABEL STRIP HOLDERS AND WHITE LABEL STRIPS
13. PATCH PANEL SHALL BE A CATEGORY 6 UNIVERSAL CONFIGURED 110 PANELS WITH CABLE MANAGEMENT BAR.
14. PATCH PANEL SHALL HAVE 48 PORTS IN A HEIGHT OF 2 RACK MOUNT UNITS.
15. PATCH PANELS SHALL BE 16 GAUGE STEEL PAINTED BLACK FINISH WITH WHITE SILK SCREEN LABELING AND SUPPLIED WITH A REAR CABLE MANAGEMENT BAR.
16. OPTICAL FIBER PATCH PANEL SHALL BE FOR UP TO 24 PORTS IN ONE RACK UNIT, OR 48 PORTS IN TWO RACK UNITS.
17. FIBER ENCLOSURES SHALL BE CONSTRUCTED OF 18 GAUGE STEEL POWDERED COATED BLACK.
18. ALL GROMMETS USED FOR ENTRY AND EXIT POINT OF FIBER CABLES FROM ENCLOSURES SHALL BE SELF HEALING AND BE CONSTRUCTED OF ENSOJITE.
19. OPTICAL FIBER ADAPTER PLATE SHALL BE WITH 6 DUPLEX LC ADAPTER SLEEVES AND PLASTIC PLUNGER.
20. HORIZONTAL CABLE MANAGER SHALL HAVE 5 SMOOTH POLISHED DISTRIBUTION RINGS WITH A TOTAL DEPTH OF 2 RACK UNITS.
21. HORIZONTAL CABLE MANAGER SHALL BE CONSTRUCTED FROM 16 GAUGE STEEL POWDER COATED BLACK.
22. VERTICAL CABLE MANAGER SHALL BE SLOTTED DUCT WITH 6" WIDE X 4" DEEP FRONT AND 4" WIDE X 4" DEEP REAR MANAGEMENT.
23. VERTICAL CABLE MANAGER SHALL HAVE HINGES FOR COVERS AND MOUNTING BRACKETS FOR MOUNTING ONTO RACKS.
24. LADDER RACKING SHALL BE METAL, SUITABLE FOR INDOORS, POWDER COATED BLACK AND A MINIMUM OF 12" WIDE.
25. PDU SHALL HAVE OVERLOAD PROTECTION AND EASY TO RESET CIRCUIT BREAKER.
26. PDU SHALL BE CONSTRUCTED FROM 18 AWG STEEL.
27. PDU SHALL HAVE LIGHT EMITTING DIODES TO INDICATE "POWER ON" AND "GROUND/POLARITY OK" FEATURE.
28. PDU SHALL BE RATED FOR 20 AMPS AND HAVE A 12' L520P PLUG AND TEN 5-20R RECEPTACLES.

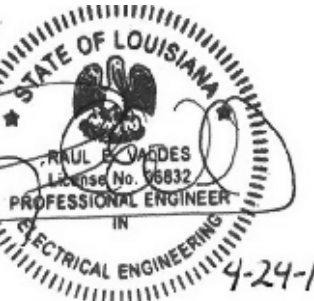
C. BACKBONE CABLING

1. CATEGORY 6 CABLES SHALL HAVE AN IMPEDANCE VALUE OF 100 OHMS AND BE AVAILABLE IN GROUPS OF 25 PAIRS USING COLOR CODED SUB-UNITS.
2. ALL MULTI-PAIR CATEGORY 6 COPPER CABLES SHALL UTILIZE BAND MARKED INSULATED CONDUCTORS.
3. COPPER CABLE SHALL HAVE A RIP CORD APPLIED LONGITUDINALLY ALONG JACKET.
4. COPPER CABLE SHALL HAVE SEQUENTIAL MARKING OF FOOTAGE.
5. MULTI-PAIR CABLES ARE TERMINATED ONTO A 110 OPEN PANEL SYSTEM WITH C5 CLIPS TO ALLOW FOR THE CROSS CONNECT OF 22-26 AWG WIRE TO VOICE EQUIPMENT.
6. COPPER CABLE CONDUCTORS SHALL BE CONSTRUCTED OF 22-26 AWG SOLID ANNEALED BARE HIGH QUALITY COPPER INSIDE INSULATION COMPRISING OF POLYVINYL CHLORIDE (PVC).
7. COPPER CABLING SYSTEM SHALL BE GUARANTEED TO SUPPORT DIGITAL AND ANALOG VOICE APPLICATIONS FROM .01 MHZ UP TO 16 MHZ.
8. BACKBONE COPPER CABLING SYSTEM SHALL BE CAPABLE OF SUPPORTING DIGITAL OR ANALOG VOICE APPLICATIONS FOR A TOTAL DISTANCE OF 800 METERS WITH EQUIPMENT CORDS FOR THE LIFE OF THE SYSTEM.
9. CABLE SYSTEM SHALL BE GUARANTEED TO NOT INTRODUCE CROSS-TALK FOR VOICE APPLICATIONS DURING THE LIFE OF THE SYSTEM.
10. OPTICAL CABLE IS A MULTI-MODE 50 MICRON AND SINGLE MODE 8-9 MICRON OPTICAL FIBER SYSTEM.
11. OPTICAL CABLE IS CAPABLE OF SUPPORTING BASEBAND SIGNALING FOR HIGH BANDWIDTH VOICE, DATA OR VIDEO APPLICATIONS USING 850 NM OR 1550 NM LEDS OR VCSELS.
12. OPTICAL FIBER CABLE IS USED AS PART OF A CABLING SYSTEM IN A PANEL TO PANEL SYSTEM UTILIZING DUPLEX FUSION SPLICE TYPE CONNECTORS COUPLED THROUGH A CERAMIC SLEEVE PLASTIC HOUSING AS THE INTERFACE.
13. OPTICAL FIBER CABLE SHALL PROVIDE FOR THE CONTINUOUS OPERATION OF TRANSPORTING SHORT WAVELENGTH LIGHT WITHOUT INTRODUCING BIT ERRORS ONTO THE TRANSPORT SYSTEM.
14. OPTICAL FIBER CABLE SHALL HAVE 12 STRAND BUNDLES USING INDUSTRY STANDARD COLOR CODING.

Perez.

ARCHITECTURE
ENGINEERING
PLANNING
INTERIORS
LANDSCAPE
GRAPHICS

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St Bernard Parish Sheriff's Substation
47
Paris Road

DATE: 04/24/14
PROJECT NO.: 01-09-1082-02

REVISIONS:		
No.	Date	Description

DRAWN BY: CL
CHECKED BY: RV
SHEET TITLE

COMMUNICATION
SPECIFICATIONS

SHEET NO

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15. OPTICAL FIBER CABLE SHALL HAVE 900 UM JACKETING OF THE INDIVIDUAL STRANDS.
 16. OPTICAL FIBER CABLE SHALL HAVE A FLAME RETARDANT AND LOW SMOKE FEP JACKET.
 17. OPTICAL FIBER CABLE SHALL BE GUARANTEED TO SUPPORT THE APPLICATION OF 10 GIGABIT ETHERNET UP TO 300 METERS AT A WAVELENGTH OF 850 NM.
 18. OPTICAL FIBER CABLE SHALL SUPPORT 10GBASE-SX APPLICATIONS FOR THE LIFE OF THE SYSTEM.
 19. OPTICAL FIBER FUSION SPLICE TYPE CONNECTORS SHALL HAVE PRE-RADIUS ZIRCONIA FERRULES.
 20. OPTICAL FIBER FUSION SPLICE TYPE CONNECTORS SHALL BE RATED FOR INDOOR AND OUTDOOR USE.
 21. ONE HARD AND ONE SOFT COPY OF ALL TEST RESULTS SHALL BE PROVIDED TO THE OWNER UPON SUBSTANTIAL COMPLETION.
 22. ALL TESTERS USED SHALL BE CALIBRATED BY THE FACTORY WITHIN 1 YEAR TO ENSURE ACCURACY.
 23. TEST RESULTS FOR ALL CATEGORY 6 BACKBONE COPPER MULTI-PAIR CABLES SHALL BE PROVIDED AS AN EXCEL SPREADSHEET, HARD COPY AND SOFT COPY, FOR EACH PAIR STATING A "PASS" OR "FAIL" FOR CONTINUITY BY THE COMMUNICATIONS CONTRACTOR.
 24. OPTICAL FIBER TESTING SHALL BE PERFORMED USING A TIER 1 TESTER SUCH AS AN OLTS AT THE WAVELENGTH OF 850 NM AND 1300 NM.
 25. OPTICAL FIBER TEST RESULTS SHALL BE BI-DIRECTIONAL SHOWING A POWER LOSS NOT GREATER THAN 2.0 DB AS PART OF A CABLING SYSTEM.
 26. OPTICAL FIBER TIER 2 TESTING USING AN OTR IS REQUIRED IF THE CONTRACTOR SPLICES ANY OPTICAL FIBER STRANDS.
- D. HORIZONTAL CABLING
1. CABLE SYSTEM SHALL HAVE AN IMPEDANCE VALUE OF 100 OHMS.
 2. ALL 4 PAIR UTP CABLE CONDUCTORS SHALL BE TERMINATED ONTO 8 POSITION 8 CONDUCTOR CATEGORY 6 CONNECTORS USING 110 STYLE IDC.
 3. ALL 8 POSITION 8 CONDUCTOR CATEGORY 6 CONNECTORS SHALL BE PLACED INTO ACCEPTED FACEPLATES. QUANTITIES TO BE REFERENCES ON DRAWINGS.
 4. APPEARANCE OF CABLE SYSTEM FACEPLATES SHALL MATCH THE DECOR AND MOUNTING HEIGHT OF ELECTRICAL OUTLET FACEPLATES.
 5. ALL FACEPLATES SHALL HAVE A STATION IDENTIFICATION WINDOW FOR A MACHINE LABEL PROTECTED BEHIND TRANSPARENT PLASTIC.
 6. COPPER CABLING SYSTEM SHALL BE GUARANTEED TO SUPPORT BASEBAND SIGNALING FROM 1 MHZ UP TO 250 MHZ.
 7. HORIZONTAL COPPER CABLING SYSTEM SHALL BE CAPABLE OF SUPPORTING 1GBASE-T APPLICATIONS FOR A TOTAL DISTANCE OF 100 METERS WITH EQUIPMENT CORDS FOR THE LIFE OF THE SYSTEM.
 8. CABLE SYSTEM SHALL BE GUARANTEED TO NOT INTRODUCE BIT ERRORS WHEN OPERATING AT 1 GIGABIT/SECOND FOR THE LIFE OF THE SYSTEM.
 9. CABLE SYSTEM SHALL HAVE A LIFETIME WARRANTY FOR 1GBASE-T APPLICATIONS ASSURANCE.
 10. CABLE SYSTEM PATCH CORDS SHALL BE RATED FOR 1GBASE-T APPLICATIONS.
 11. CABLING SYSTEM SHALL BE CAPABLE OF EXHIBITING THE FOLLOWING MINIMUM ELECTRICAL CHARACTERISTICS WHEN TESTED AS A 4 CONNECTOR CHANNEL, USING A LEVEL III OR LEVEL IV TESTER: (EXAMPLE = FLUKE, AGILENT, ETC.):

INSERTION LOSS (IL)/33 DB, NEAR END CROSSTALK (NEXT)/38DB, POWERSUM NEXT (PSNEXT)/ 37DB, ATTENUATION CROSSTALK RATIO (ACR)/7DB, POWER SUM ACR (PSACR)/6DB, ATTENUATION CROSSTALK RATIO FAR END (ACR-F)/20DB, POWER SUM ATTENUATION CROSSTALK RATIO FAR END (PSACR-F)/18DB, RETURN LOSS (RL)/12DB.
 12. FIELD TESTING OF INSTALLED CABLE CHANNEL SHALL BE PERFORMED BY CONTRACTOR USING TIA/EIA 568-C DOCUMENT.
 13. TESTING OF CONNECTING HARDWARE COMPONENTS SHALL BE PERFORMED USING ANNEX A WITHIN THE TIA/EIA-568-C.2 DOCUMENT. MANUFACTURER OF CONNECTORS TO PROVIDE THIS DATA.
 14. TESTING OF FOUR PAIR CABLE COMPONENT SHALL BE PERFORMED USING ANNEX C WITHIN THE TIA/EIA-568-C.2 DOCUMENT. MANUFACTURER OF CABLE TO PROVIDE THIS DATA.

PART 3 - EXECUTION

A. GENERAL

1. FOLLOW AND ADHERE TO INSTALLATION PRACTICES SPECIFIED BY THE APPLICABLE TELECOMMUNICATIONS INDUSTRY ASSOCIATION STANDARDS.
2. FOLLOW AND ADHERE TO INSTALLATION PRACTICES SPECIFIED BY BICSI TELECOMMUNICATIONS DISTRIBUTION METHODS MANUAL (TDM) LATEST EDITION.
3. FOLLOW AND ADHERE TO INSTALLATION PRACTICES SPECIFIED BY THE BICSI INFORMATION TRANSPORT SYSTEM INSTALLATION LATEST EDITION.
4. FOLLOW AND ADHERE TO INSTALLATION PRACTICES SPECIFIED BY NFPA-70 NATIONAL ELECTRIC CODE, LATEST EDITION.
5. FOLLOW AND ADHERE TO INSTALLATION PRACTICES SPECIFIED BY THE PRODUCT MANUFACTURERS.
6. CONTRACTOR SHALL MAKE AVAILABLE ALL CEILING AND TERMINATION WORK FOR INSPECTION BY MANUFACTURER'S REPRESENTATIVE OR OWNER'S REPRESENTATIVE.

7. CONTRACTOR SHALL REPLACE ALL DEFECTIVE COMPONENTS.
 8. IT IS THE RESPONSIBILITY OF THE COMMUNICATIONS CONTRACTOR TO ENSURE EQUIPMENT IS PROTECTED FROM DUST AND WATER DURING THE PROJECT WITH APPROPRIATE MATERIALS.
 9. REMOVE ALL PROTECTIVE COVERS AND PROTECTIVE MATERIALS FROM EQUIPMENT PRIOR TO TURNOVER TO OWNER.
- B. EQUIPMENT ROOM
1. ASSEMBLE FREE STANDING RACKS ACCORDING TO MANUFACTURER'S INSTRUCTIONS. VERIFY THAT EQUIPMENT MOUNTING RAILS ARE SIZED PROPERLY FOR RACK MOUNT EQUIPMENT BEFORE ATTACHING THE RACK TO THE FLOOR.
 2. ALL RACKS MUST BE ATTACHED TO THE FLOOR IN FOUR PLACES USING APPROPRIATE FLOOR MOUNTING ANCHORS. WHEN PLACES OVER A RAISED FLOOR, THREADED RODS SHOULD PASS THROUGH THE RAISED FLOOR TILE AND BE SECURED IN THE STRUCTURAL FLOOR BELOW.
 3. RACKS SHALL BE GROUNDED TO THE TELECOMMUNICATIONS BUSBAR USING #6 AWG GREEN INSULATED COPPER WIRE AND ANY NECESSARY ATTACHMENT HARDWARE PROVIDED BY THE COMMUNICATIONS CONTRACTOR.
 4. CABINETS SHALL BE SECURED TO THE STRUCTURAL FLOOR USING MANUFACTURER'S INSTALLATION INSTRUCTIONS AND APPROPRIATE HARDWARE AS DEFINED BY LOCAL CODE OR THE AUTHORITY HAVING JURISDICTION. INSTALLERS WILL PROVIDE INSTALLATION HARDWARE. WHEN PLACED OVER A RAISED FLOOR, SECURE THE CABINET TO THE STRUCTURAL FLOOR THROUGH THE RAISED FLOOR PANELS USING 5/8" THREADED ROD. LEVELING FEET AND CASTERS WILL NOT BE USED.
 5. WHEN USED IN A MULTI-CABINET BAY, CABINETS WILL BE ATTACHED SIDE-BY-SIDE USING INCLUDED BAYING KIT HARDWARE ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS. AN EXTERNAL CABLE MANAGER AND TWO BRUSH SIDE PANELS MUST BE USED IN BETWEEN BAYED CABINETS.
 6. MOUNT RACK MOUNT POWER STRIPS WITHIN 6' OF WHERE ACTIVE EQUIPMENT WILL BE PLACED.
 7. LADDER RACK MAY BE ATTACHED TO THE TOP OF THE RACK TO DELIVER CABLES TO THE RACK. THE RACK SHOULD NOT BE DRILLED TO ATTACH LADDER RACK. USE APPROPRIATE HARDWARE FROM THE LADDER RACK MANUFACTURER.
 8. LADDER RACKING SHALL BE SUPPORTED EVERY 5' WITH 3/8" THREADED ROD ANCHORED AND SECURED TO PERMANENT CEILING STRUCTURE.
 9. LOADING OF CABLE RACK SHALL NOT EXCEED 6" DEPTH AND SHOULD HAVE RETAINERS EVERY 12" TO PREVENT CABLES FROM SPILLING OVER THE SIDES.
 10. WHERE LADDER RACKING BUTTS UP AGAINST WALL, THE APPROPRIATELY SIZED WALL MOUNT BRACKET SHALL BE UTILIZED.
 11. LADDER RACKING SHALL UTILIZE ALL APPROPRIATE RADIUS DROP STRINGERS CORNER BENDS AND OTHER DEVICES TO MAINTAIN CABLE BEND RADIUS WHEN ENTERING AND EXITING RACKS AND CABINETS.
 12. MATING PIECES OF LADDER RACKING TOGETHER SHALL UTILIZE APPROPRIATE BUTT SPLICE AND JUNCTION SPLICE KITS.
 13. ALL CUT AND EXPOSED SHARP ENDS SHALL UTILIZE A PLASTIC END CAP TO PREVENT INJURY.

C. BACKBONE CABLING

1. VERIFY THAT PATHWAYS AND SPACES WILL ALLOW BACKBONE CABLES TO BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
2. VERIFY THAT CABLES CAN BE PROPERLY SUPPORTED BY CABLE TRAY OR HOOKS IN CEILING.
3. COMPARE TO CONTRACT DRAWINGS AND PROVIDE WRITTEN NOTIFICATION IF SITE CONDITIONS DEVIATE FROM DRAWINGS.
4. CABLING SHALL UTILIZE A STAR TOPOLOGY WITH NO MORE THAN 2 LEVELS OF BACKBONE.
5. COPPER BACKBONE CABLE LENGTH SHALL NOT EXCEED 500 METERS FOR THE 1ST LEVEL AND 300 METERS FOR THE 2ND LEVEL FOR A TOTAL NOT TO EXCEED DISTANCE OF 800 METERS.
6. ALL BACKBONE COMMUNICATIONS CABLES SHALL BE INSTALLED IN PATHWAYS AND SPACES DESIGNATED FOR COMMUNICATIONS CABLES
7. ENSURE PULLING TENSION OF COPPER CABLES DO NOT EXCEED A PULL LOAD OF 25 FOOT POUNDS.
8. NO SPLICES ARE PERMITTED IN ANY COPPER CABLE.
9. MULTIPAIR COPPER CABLES SHALL SUPPORT A BEND RADIUS OF 10 TIMES THE CABLE OUTSIDE DIAMETER WHEN NOT SUBJECT TO TENSILE LOAD, AND 15 TIMES THE CABLE OUTSIDE DIAMETER WHEN SUBJECT TO TENSILE LOADING UP TO THE CABLE'S RATED LIMIT.
10. CONTRACTOR SHALL PROVIDE IN A QUICK AND TIMELY FASHION ANY ADDITIONAL MATERIALS OR LABOR THAT MAY BE DAMAGED DURING THE WORK AT NO CHARGE TO THE OWNER.
11. PULL ONE ADDITIONAL "MULE TAPE" OR 1/4" NYLON ROPE WHEN PULLING CABLES THROUGH ANY CONDUIT.
12. PROPERLY SUPPORT BACKBONE CABLES IN CEILING EVERY 4'-5' USING J-HOOKS OR CABLE TRAY.
13. PROVIDE 20' OF SERVICE LOOP AT BOTH EQUIPMENT CLOSET ENDS.
14. TERMINATE CABLES SO AS NOT TO PULL TIGHTLY ON TERMINATING EQUIPMENT.
15. NEATLY AND PERMANENTLY LABEL ALL BACKBONE CABLES WITH THE CABLE NUMBER AT BOTH ENDS.
16. TERMINATE ALL PAIRS, CONDUCTORS AND STRANDS AT ALL ENDS ACCORDING TO MANUFACTURER'S INSTRUCTIONS FOLLOWING COLOR CODE SEQUENCE.
17. UTILIZE VELCRO IN ALL CLOSETS.

18. FIRESTOP ALL SLEEVES AND CONDUIT OPENING AFTER THE CABLE INSTALLATION IS COMPLETE.
19. MACHINE LABEL ALL HORIZONTAL CABLES WITH CABLE NUMBER AT BOTH ENDS.
20. MACHINE LABEL ALL TERMINATION PANELS WITH CABLE NUMBER.
21. LABEL AND DOCUMENT THE HORIZONTAL CABLE INSTALLATION TO INCLUDE LABELING AND PATHWAYS ON THE AS-BUILT DRAWINGS.

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INTERIORS
LANDSCAPE
GRAPHICS

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St Bernard Parish Sheriff's Substation

47 Paris Road

DATE: 04/24/14
PROJECT NO.: 01-09-1082-02

REVISIONS:

No.	Date	Description

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SHEET TITLE

COMMUNICATION
SPECIFICATIONS

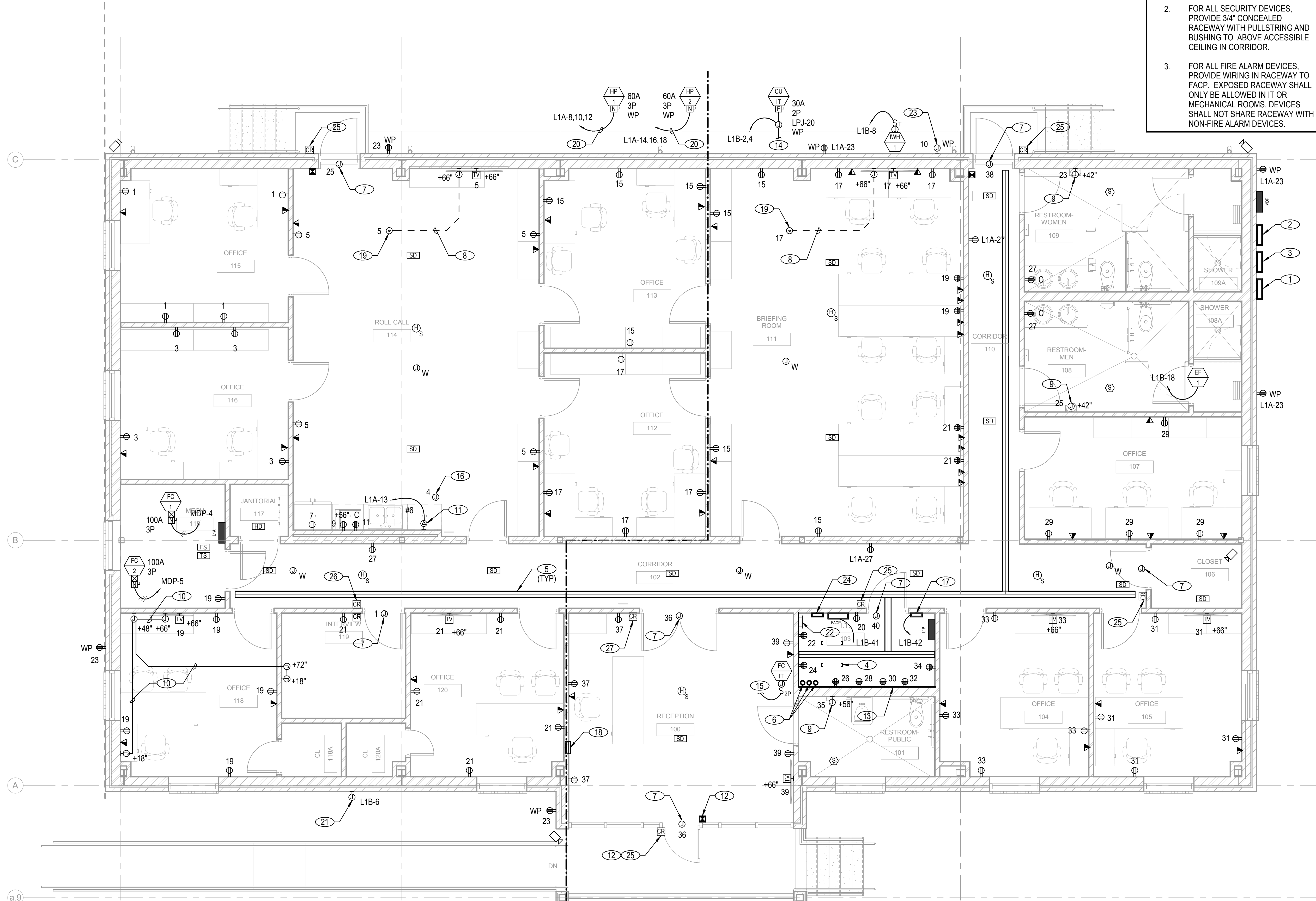
SHEET NO

E0.02

#14-0078

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4/2/2014 10:44:40 AM



NOTICE

- FOR ALL COMMUNICATION DEVICES, PROVIDE 3/4" CONCEALED RACEWAY WITH BUSHING TO ABOVE ACCESSIBLE CEILING IN CORRIDOR.
- FOR ALL SECURITY DEVICES, PROVIDE 3/4" CONCEALED RACEWAY WITH PULLSTRING AND BUSHING TO ABOVE ACCESSIBLE CEILING IN CORRIDOR.
- FOR ALL FIRE ALARM DEVICES, PROVIDE WIRING IN RACEWAY TO FACP. EXPOSED RACEWAY SHALL ONLY BE ALLOWED IN IT OR MECHANICAL ROOMS. DEVICES SHALL NOT SHARE RACEWAY WITH NON-FIRE ALARM DEVICES.

- NOTES**
- CT CABINET AND JUNCTION BOX. SEE SINGLE LINE DIAGRAM ON SHEET E5.00.
 - MAIN SERVICE MANUAL TRANSFER SWITCH. SEE SINGLE LINE DIAGRAM ON SHEET E5.00.
 - GENERATOR DOCKING STATION. SEE SINGLE LINE DIAGRAM ON SHEET E5.00.
 - 72U RACK WITH (2) 48 PORT PATCH PANELS. ACTIVE ELECTRONICS TO BE PROVIDED BY OWNER.
 - 2"X6" LIGHT DUTY WIRE MESH CABLE TRAY.
 - PROVIDE (2) 4"C AND (1) 2"C FOR TELEPHONE, DATA, AND FUTURE FIBER OPTIC CABLING.
 - CONNECTION FOR DOOR HARDWARE. PROVIDE RACEWAY TO CONTROL WIRING AS REQUIRED.
 - PROVIDE (1) 1"C WITH PULLSTRING FROM FLOORBOX TO WALL MOUNTED TELEVISION.
 - CONNECTION FOR HAND DRYER.
 - PROVIDE (1) 1"C WITH PULLSTRING FOR SURVEILLANCE SYSTEM OF INTERVIEW 119 IN OFFICE 118.
 - NEMA 5-50R RECEPTACLE FOR FUTURE COOKTOP. VERIFY LOCATION PRIOR TO ROUGH-IN.
 - TO BE INSTALLED IN MULLION.
 - FIRE RATED PLYWOOD BACKBOARD.
 - CONNECT TO FAN COIL FC-IT.
 - CONNECT TO CONDENSER UNIT CU-IT.
 - CONNECTION FOR FUTURE HOOD. VERIFY LOCATION PRIOR TO ROUGH-IN.
 - PEANUT LIGHTING CONTROL PANEL EQUAL TO WATTSTOPPER LP8S-8115-EM-24A2. PHOTOCELL TO BE INSTALLED FACING NORTH.
 - FIRE ALARM ANUNCIATOR. PROVIDE WIRING IN RACEWAY TO FACP.
 - PROVIDE 3-GANG FLOOR BOX IN SLAB AS MANUFACTURED BY WIREMOLD CATALOG #880S3, WITH 1 #817T-CAL-GY COVER PLATE FOR DATA JACKS, 1 #828G-FIT-CAL-GY COVER PLATE FOR INTEGRAL DUPLEX RECEPTACLE AND 1 #828MAAP FOR AV.
 - 1-1/2" - 4 #1 & 1 #6 GRND.
 - CONNECTION FOR ILLUMINATED SIGNAGE. VERIFY SIGN LIGHTING OPTION WITH ARCHITECT/OWNER. VERIFY LOCATION AND MOUNTING HEIGHT PRIOR TO ROUGH-IN.
 - MAIN TELECOMMUNICATION GROUNDING BUSBAR.
 - CONNECTION FOR HEAT TRACE. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.
 - ACCESS CONTROL PANEL BY OTHERS. VERIFY EXACT LOCATION WITH OWNER.
 - REFER TO DIAGRAM 1/E6.01 FOR DOOR ACCESS JUNCTION BOX AND RACEWAY REQUIREMENTS.
 - REFER TO DIAGRAM 2/E6.01 FOR DOOR ACCESS JUNCTION BOX AND RACEWAY REQUIREMENTS.
 - REFER TO DIAGRAM 3/E6.01 FOR DOOR ACCESS JUNCTION BOX AND RACEWAY REQUIREMENTS.

1 LEVEL 1 ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"

ELECTRICAL ZONE LINE
UNLESS NOTE OTHERWISE, CONNECT ALL POWER DEVICES ON THIS SIDE TO PANEL L1A

ELECTRICAL ZONE LINE
UNLESS NOTE OTHERWISE, CONNECT ALL POWER DEVICES ON THIS SIDE TO PANEL L1B

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GRAPHICS

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St Bernard Parish Sheriff's Substation
47
Paris Road

DATE: 04/24/14
PROJECT NO.: 01-09-1082-02

REVISIONS:

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SHEET TITLE

ELECTRICAL PLAN
SHEET NO
E3.00

#14.0078

PANEL: L1A		VOLTAGE: 208	BUS: 225A	3Ø 4W	CIRCUIT CODE: blank or	N: NON-CONTINUOUS									
DATE: 4/18/14 11:52 AM		MAINS: L.O.	LOCATION: MECHICAL ROOM 118	MOUNTING: SURFACE	L: LONG-CONTINUOUS	R: DEMANDABLE RECEPTACLES									
JOB: 14.0078		AIC RATING: 10,000			K: KITCHEN	NO. OF EQUIPMENT: 0									
QTY	TRIP	LOAD DESIGNATION	C	O	N	E	C	T	E	D	V	A	LOAD DESIGNATION	TRIP	QTY
NO	TYPE	(NOTE) M R L	ØA	ØB	ØC	A	B	C	ØA	ØB	ØC	L R M	(NOTE) DESCRIPTION	TYPE	NO
1	R 20	1 OFFICE 115 RECEPTACLES		720					120				INTERVIEW 119 DOOR		20
3	R 20	1 OFFICE 116 RECEPTACLES		720					500				COOKTOP H000		20
5	R 20	1 ROLL CALL 114 RECEP											SPARE		20
7	R 20	1 REFRIGERATOR		1200					4128				HEAT PUMP HP-1		50
9	R 20	1 MICROWAVE		1000					4128				SPARE		20
11	R 20	1 ROLL CALL 114 COUNTER REC							4128				SPARE		20
13	R 50	1 COOKTOP		3000					4128				HEAT PUMP HP-2		50
15	R 20	1 OFFICE 113 RECEPTACLES		720					4128				SPARE		20
17	R 20	1 OFFICE 112 RECEPTACLES		720					4128				SPARE		20
19	R 20	1 OFFICE 118 RECEPTACLES		1080									SPARE		20
21	R 20	1 OFFICE 120 RECEPTACLES		1080									SPARE		20
23	R 20	1 EXTERIOR RECEPTACLES											SPARE		20
25	N 20	1 ROLL CALL 114 DOOR		120									SPARE		20
27	R 20	1 CORRIDOR RECEPTACLES		540									SPARE		20
29	R 20	1 SPARE											SPARE		20
31	R 20	1 SPARE											SPARE		20
33	R 20	1 SPARE											SPARE		20
35	R 20	1 SPARE											SPARE		20
37	R 20	1 SPARE											SPARE		20
39	R 20	1 SPARE											SPARE		20
41	R 20	1 SPARE											SPARE		20
PANEL NOTES:			PHASE TOTALS			ØA: 14496	ØB: 12816	ØC: 11316	TOTAL CONNECTED VA			39828			
						CONNECTED VA (CODE N)			25508						
						CONNECTED VA (CODE L)			0						
						CONNECTED VA (CODE R)			13120						
						CONNECTED VA (CODE K)			0						
						PANEL CONNECTED KVA			38.6						
						PANEL DEMAND KVA			37.1						
						PANEL DEMAND AMPS			102.9						
						HIGH Ø AMPS w/ DEMAND			109.6						

PANEL: L1B		VOLTAGE: 208	BUS: 225A	3Ø 4W	CIRCUIT CODE: blank or	N: NON-CONTINUOUS									
DATE: 4/18/14 11:25 AM		MAINS: L.O.	LOCATION: IT ROOM 103	MOUNTING: SURFACE	L: LONG-CONTINUOUS	R: DEMANDABLE RECEPTACLES									
JOB: 14.0078		AIC RATING: 10,000			K: KITCHEN	NO. OF EQUIPMENT: 0									
QTY	TRIP	LOAD DESIGNATION	C	O	N	E	C	T	E	D	V	A	LOAD DESIGNATION	TRIP	QTY
NO	TYPE	(NOTE) M R L	ØA	ØB	ØC	A	B	C	ØA	ØB	ØC	L R M	(NOTE) DESCRIPTION	TYPE	NO
1	L 20	1 LIGHTING		958					1436				CONDENSER UNIT CU-IT &		20
3	L 20	1 LIGHTING							901				AIR COIL AC-IT		2
5	L 20	1 LIGHTING							1065				1 STORAGE LIT		20
7	L 20	1 LIGHTING		530					500				WATER HEATER WH-1		20
9	L 20	1 LIGHTING							1261				HEAT TRACE		20
11	L 20	1 EXTERIOR BUILDING LIT							1094				SPARE		20
13	L 20	1 PARKING LOT POLE LIT		292									SPARE		20
15	R 20	1 BRIEFING ROOM 111 RECEPTS		720									SPARE		20
17	R 20	1 BRIEFING ROOM 111 RECEPTS		720					696				EXHAUST FAN EF-1		15
19	R 20	1 BRIEFING ROOM 111 RECEPTS		720					180				IT 103 RECEPTACLE		20
21	R 20	1 BRIEFING ROOM 111 RECEPTS		720					360				IT 103 RECEPTACLE		20
23	N 20	1 RR 108 HAND DRYER							1000				IT 103 RECEPTACLE		20
25	N 20	1 RR 109 HAND DRYER		1000					360				IT 103 RECEPTACLE		20
27	R 20	1 RR 108 & 109 RECEPTACLES		360					360				IT 103 RECEPTACLE		20
29	R 20	1 OFFICE 107 RECEPTACLES		900					360				IT 103 RECEPTACLE		20
31	R 20	1 OFFICE 105 RECEPTACLES		900					360				IT 103 RECEPTACLE		20
33	R 20	1 OFFICE 104 RECEPTACLES		900					360				IT 103 RECEPTACLE		20
35	N 20	1 RR 101 HAND DRYER							1000				RECEPTION 100 DOORS		20
37	R 20	1 RECEPTION 100 RECEPTS		540					120				CORRIDOR 110 DOOR		20
39	R 20	1 RECEPTION 100 RECEPTS		540					120				IT 103 DOOR		20
41	N 20	1 FAC							400				PEANUT LIGHTING PANEL		20
43	R 20	1 SPARE											SPARE		20
45	R 20	1 SPARE											SPARE		20
47	R 20	1 SPARE											SPARE		20
49	R 20	1 SPARE											SPARE		20
51	R 20	1 SPARE											SPARE		20
53	R 20	1 SPARE											SPARE		20
PANEL NOTES:			PHASE TOTALS			ØA: 7896	ØB: 8138	ØC: 8275	TOTAL CONNECTED VA			24309			
						CONNECTED VA (CODE N)			8228						
						CONNECTED VA (CODE L)			6721						
						CONNECTED VA (CODE R)			9360						
						CONNECTED VA (CODE K)			0						
						PANEL CONNECTED KVA			24.3						
						PANEL DEMAND KVA			26.0						
						PANEL DEMAND AMPS			72.1						
						HIGH Ø AMPS w/ DEMAND			74.7						

MDP LOAD CALCULATION

PANEL L1A	=	37 KVA
PANEL L1B	=	26 KVA
FAN COIL FC-1	=	22 KVA
FAN COIL FC-2	=	22 KVA
TOTAL	=	107 KVA
		120/208V, 3Ø = 297A

FEEDER SCHEDULE

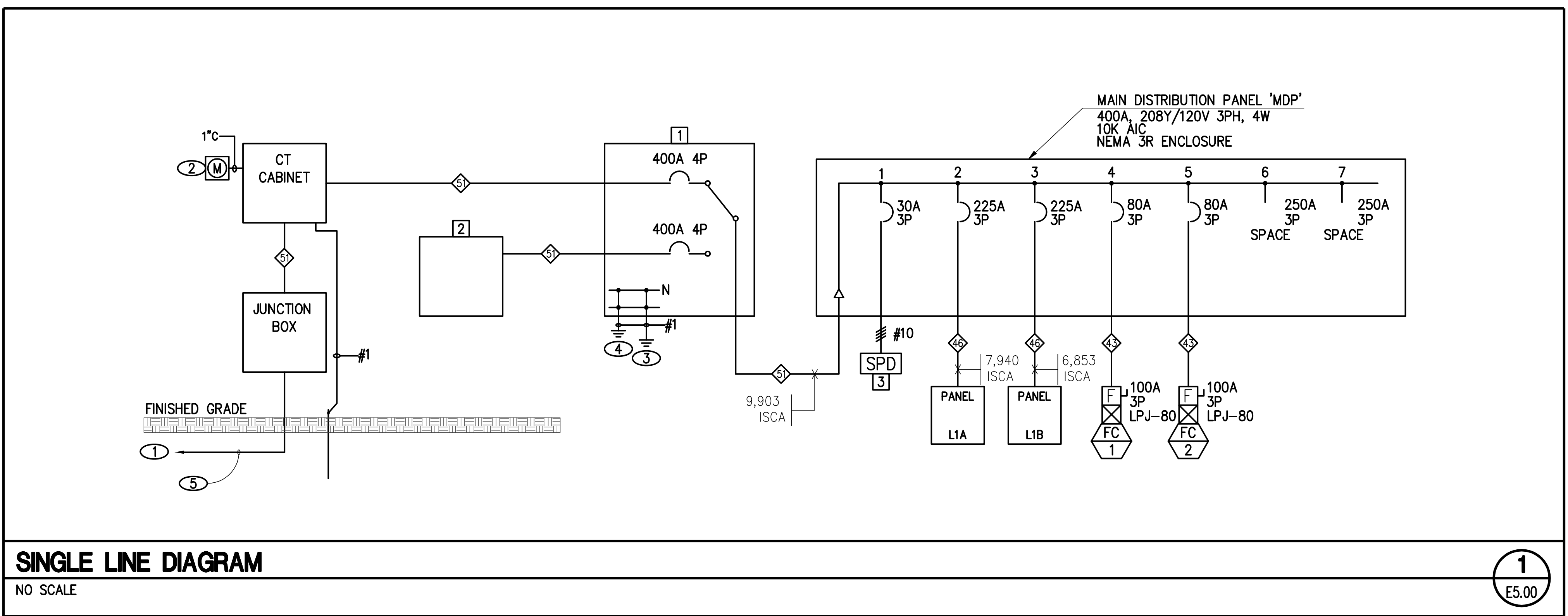
FDR. NO.	DESCRIPTION	CONDUIT AND WIRE SIZE (75° C CU 600V)
④	130A, DISTRIBUTION FEEDER	1-1/2" - 4 #1 & 1 #6 GRND
④	225A, DISTRIBUTION FEEDER	2-1/2" - 4 #4/0 & 1 #4 GRND
④	400A, DISTRIBUTION FEEDER	4" - 4 #600KCM & 1 #2/0 GRND

NOTES:
1. SOME FEEDERS MAY NOT BE USED ON THIS PROJECT.
2. VOLTAGE DROP MAY REQUIRE THE USE OF A LARGER AMPACITY FEEDER.
3. 'A' FEEDERS INDICATE 3Ø, 3W SERVICE IN LIEU OF 3Ø, 4W.
4. CONDUCTORS FOR TERMINATION ON 100% RATED DEVICES SHALL BE 90°C, APPLIED AT 75°C RATINGS.

- ### NOTICE
- ALL GROUNDING SHALL BE 5 ohm RESISTANCE MAXIMUM.
- ### NOTES
- CONTRACTOR SHALL TRENCH AND EXCAVATE FOR UNDERGROUND CONDUIT ROUTES WITH EXTREME CAUTION AND SHALL CONTACT ALL PERTINENT UTILITY COMPANIES AS REQUIRED TO PROTECT EXISTING SYSTEM AND CIRCUMVENT INTERRUPTIONS IN EXISTING UNDERGROUND UTILITIES. CONTRACTOR SHALL PERFORM TEST EXCAVATIONS AS REQUIRED TO VERIFY EXACT DEPTHS AND POSITIONS OF UNDERGROUND UTILITIES BEFORE FULL COMMENCEMENT OF UNDERGROUND TRENCHING AND EXCAVATION WORK. ALL EXISTING GRADES, SIDEWALKS AND ROADWAYS SHALL BE REPAIRED AND RETURNED TO THE ORIGINAL CONDITION(S) PER THE STRUCTURAL/CIVIL SPECIFICATIONS AND ARCHITECTURAL SPECIFICATIONS.
 - COORDINATE REQUIREMENTS FOR METERING, CT CABINET, INCOMING PRIMARY CONDUITS, GROUNDING, ETC. WITH ENTERGY PRIOR TO COMMENCING WORK.
 - GROUND PER NEC ARTICLE 250.52(A)(1).
 - GROUND PER NEC ARTICLE 250.52(A)(2).
 - EMPTY CONDUITS WITH PULLSTRING PER UTILITY COMPANY.

EQUIPMENT SCHEDULE

ITEM	DESCRIPTION
1	SERVICE ENTRANCE RATED NON-AUTOMATIC TRANSFER SWITCH. 208V, 4P ELECTRICALLY OPERATED 400A CIRCUIT BREAKER PAIR, SWITCHED NEUTRAL, SOURCE AVAILABILITY LIGHTS. UNIT SHALL BE WALL MOUNTED IN NEMA 3R RATED SECURE ENCLOSURE. ASCO 300SE SERIES OR APPROVED EQUIVALENT.
2	GENERATOR DOCKING STATION. 400A, 208V, 3Ø, 4P, NEMA 3R, POSI-LOK RECEPTACLES, PORTABLE 30' OF CABLE CORD SET. UNIT SHALL BE WALL MOUNTED IN NEMA 3R SECURE ENCLOSURE. TRYSTAR GDS SERIES OR APPROVED EQUIVALENT.
3	SURGE PROTECTION DEVICE. UNIT SHALL BE IN NEMA 3R RATED ENCLOSURE. SEE SPECIFICATION SECTION 26 43 13 FOR ADDITIONAL INFORMATION.



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St Bernard Parish Sheriff's Substation

47 Paris Road

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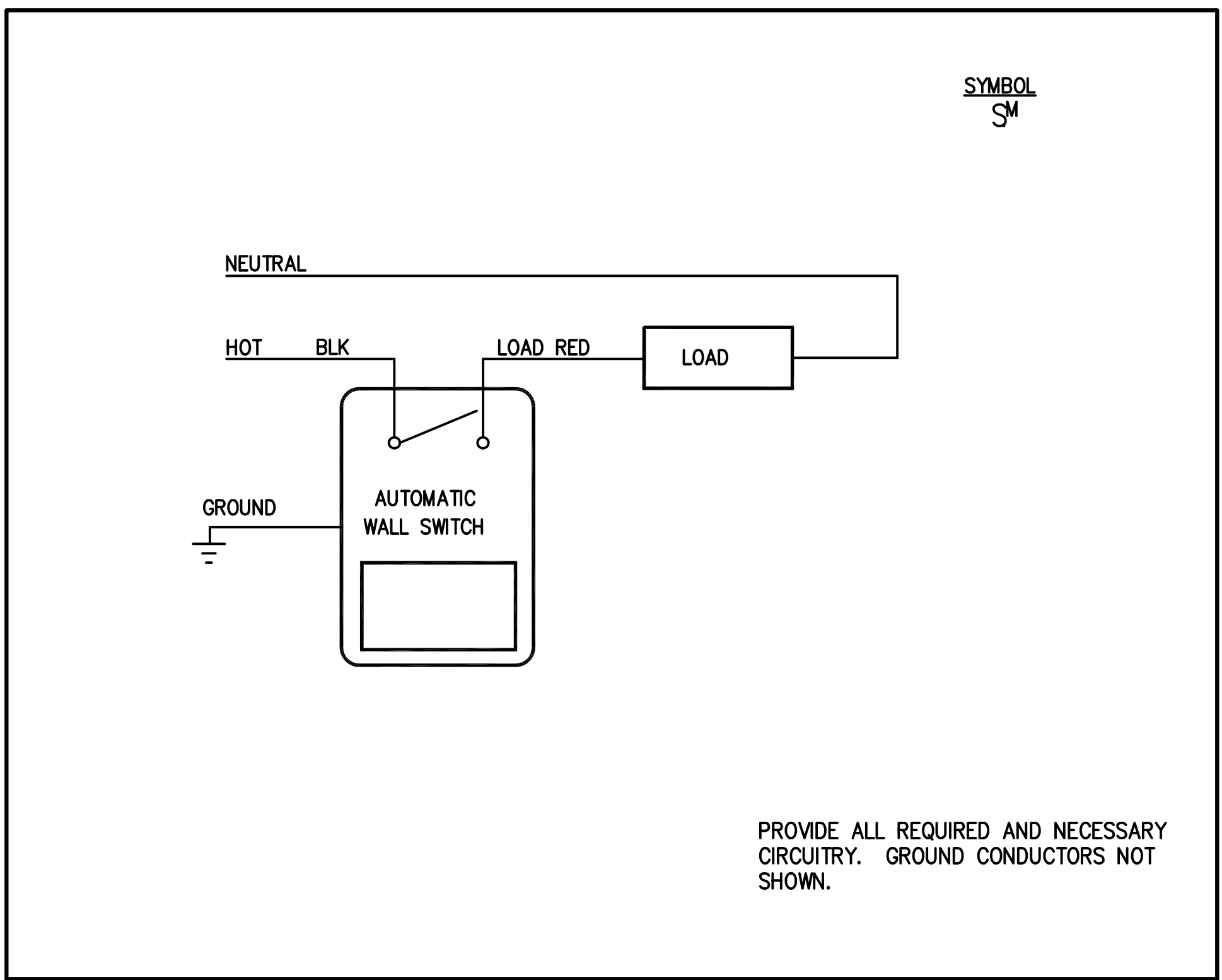
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SHEET TITLE

SINGLE LINE DIAGRAM

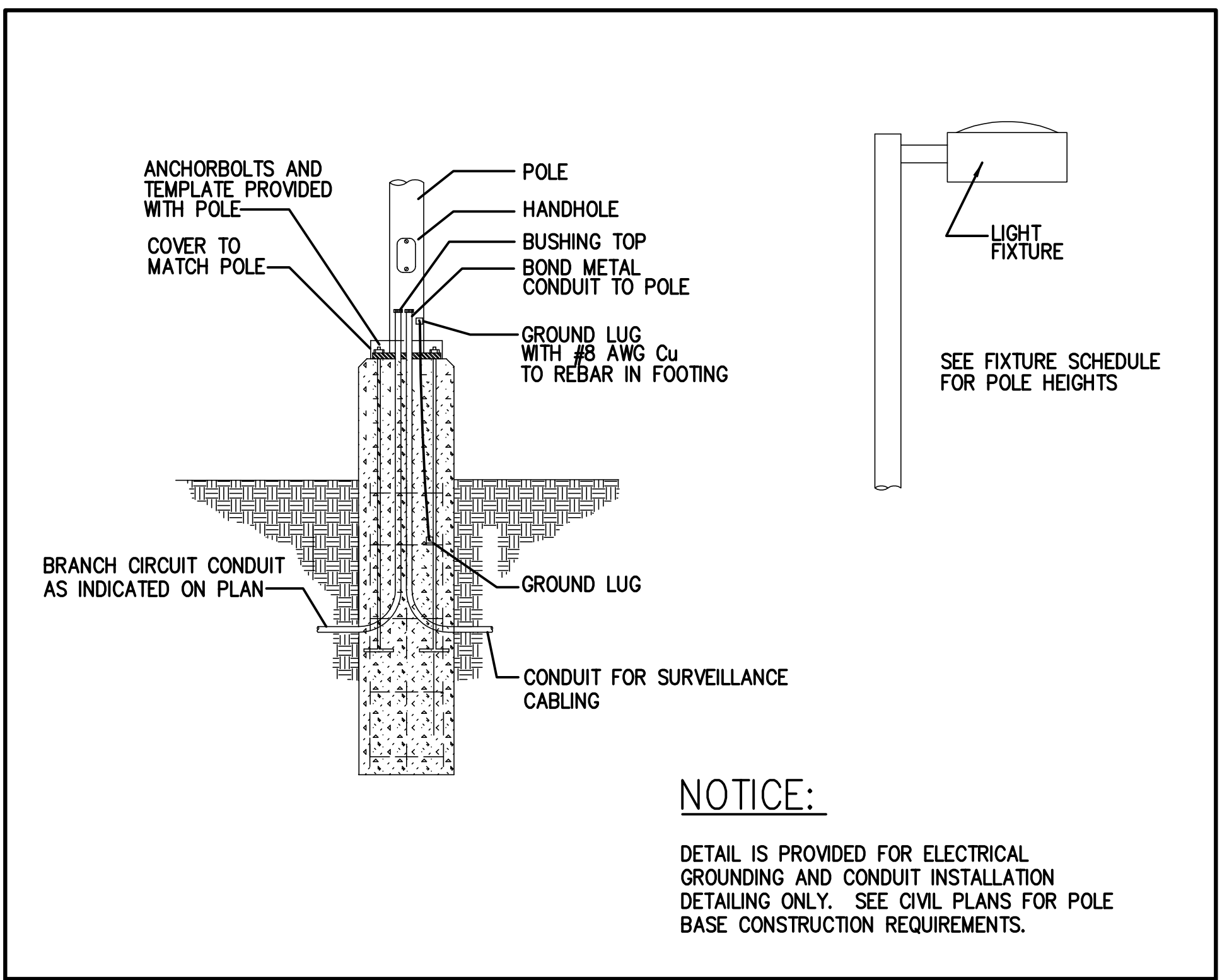
SHEET NO

E5.00

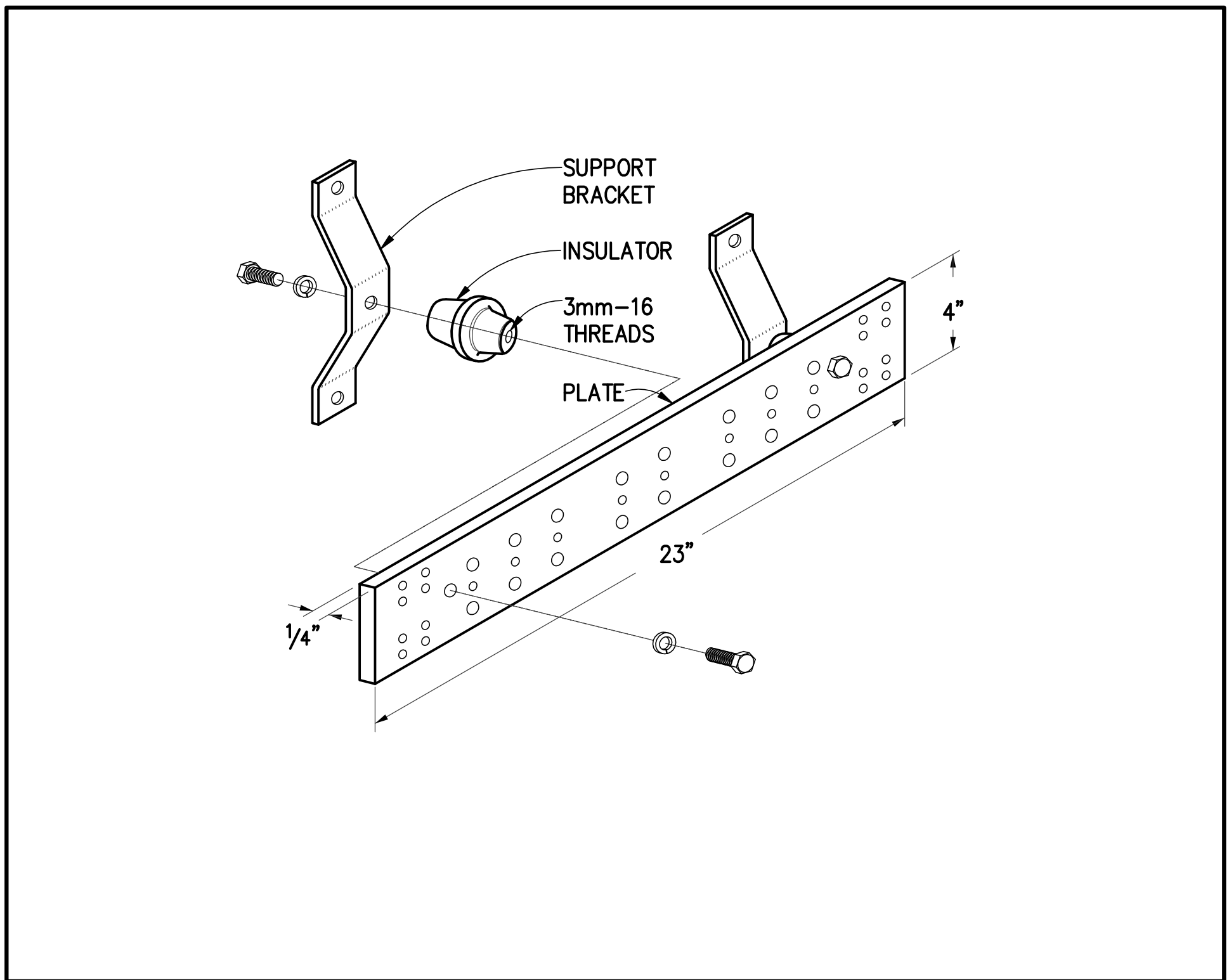
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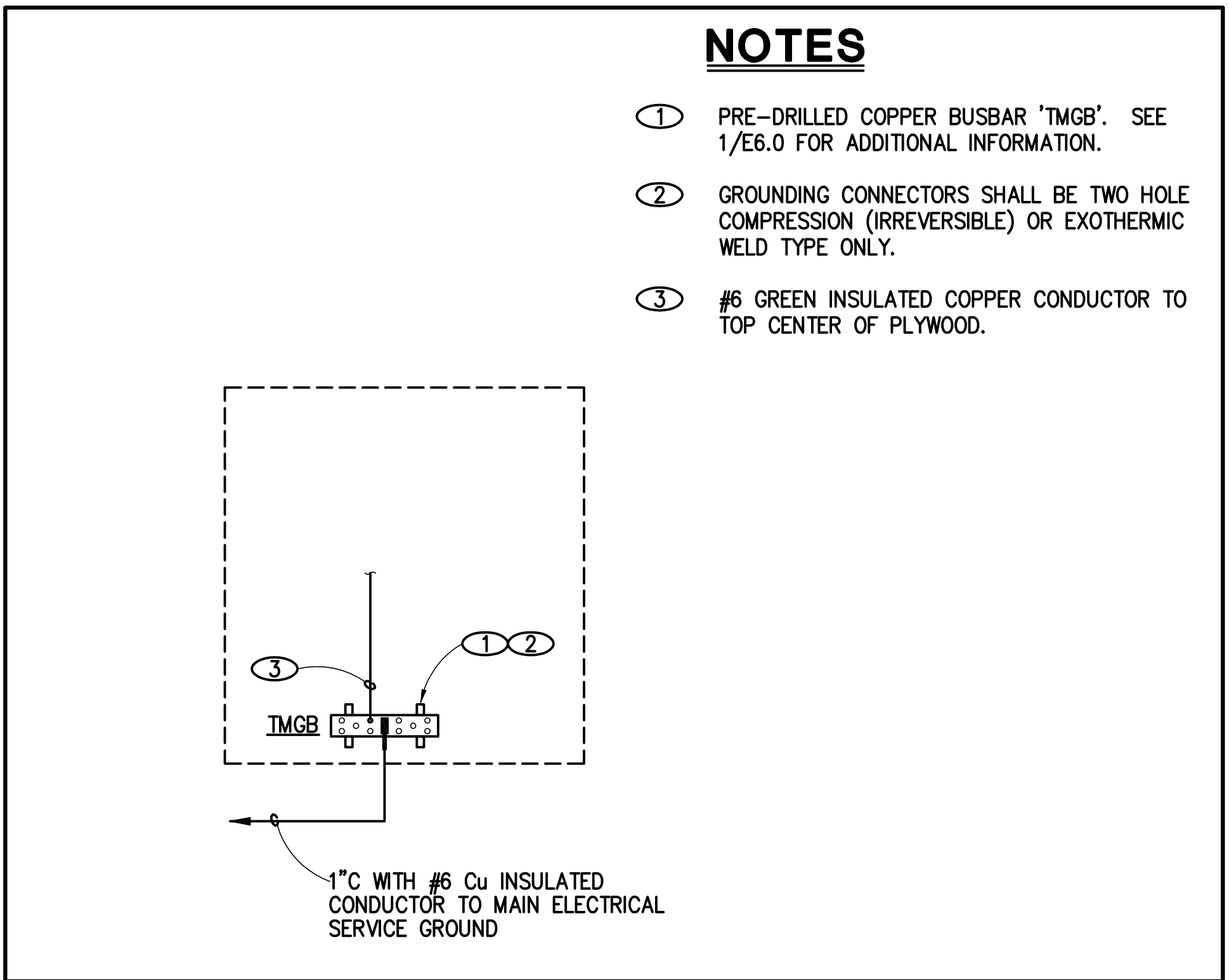
WALL MOTION SENSOR - SINGLE SWITCHING 1
NO SCALE E6.00



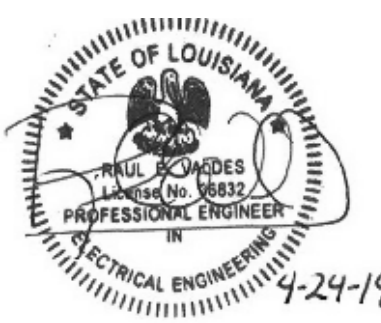
TYPICAL POLE BASE DIAGRAM 2
NO SCALE E6.00



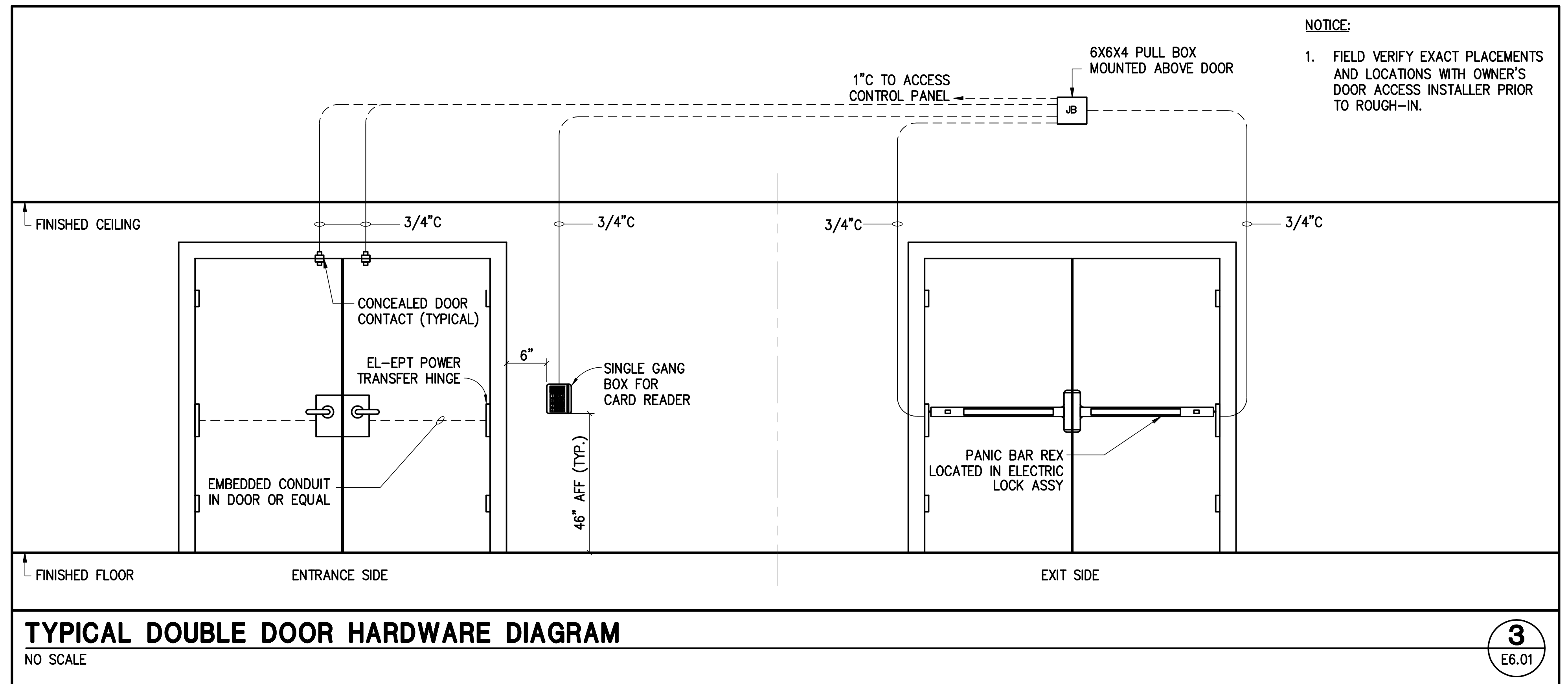
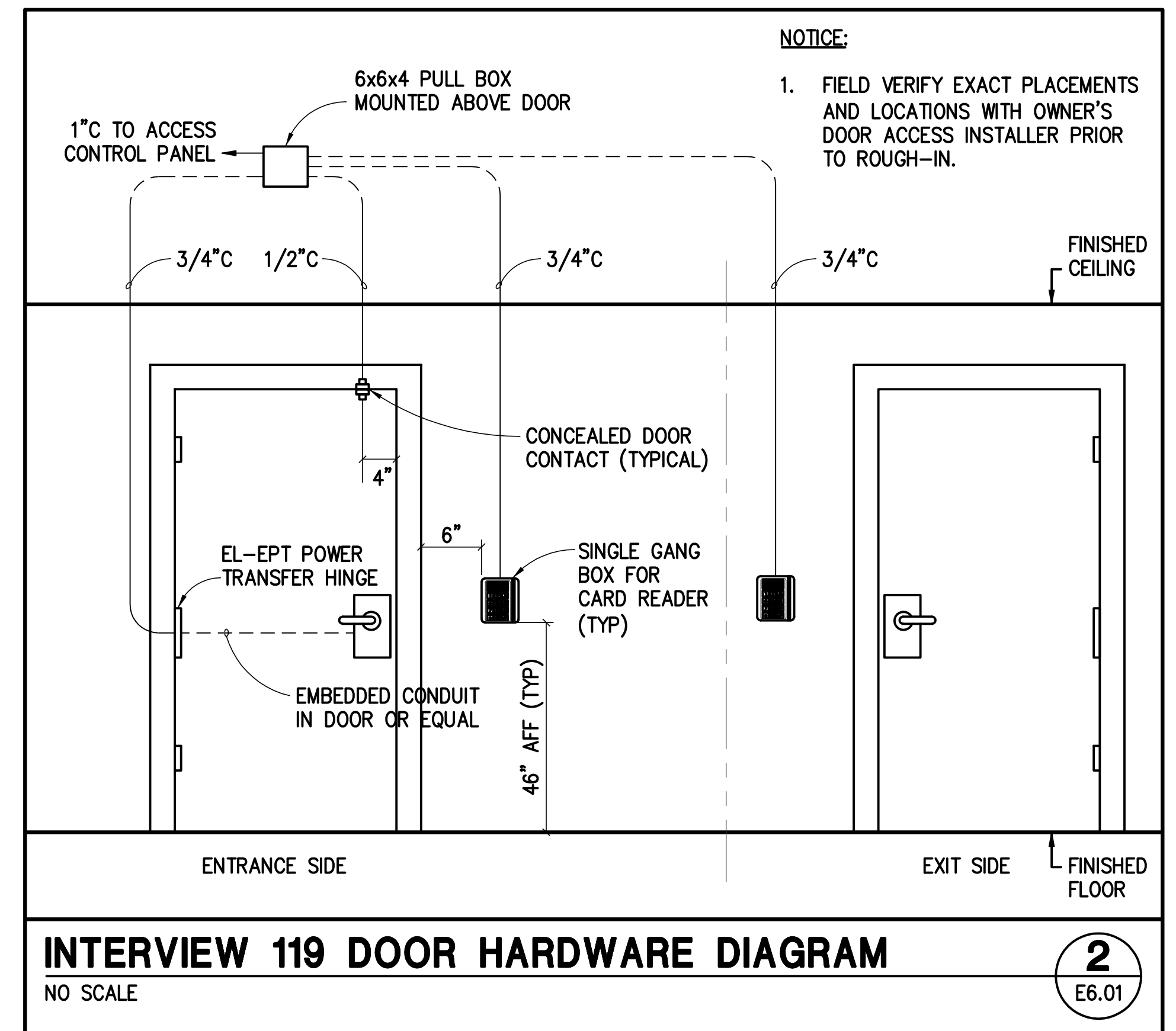
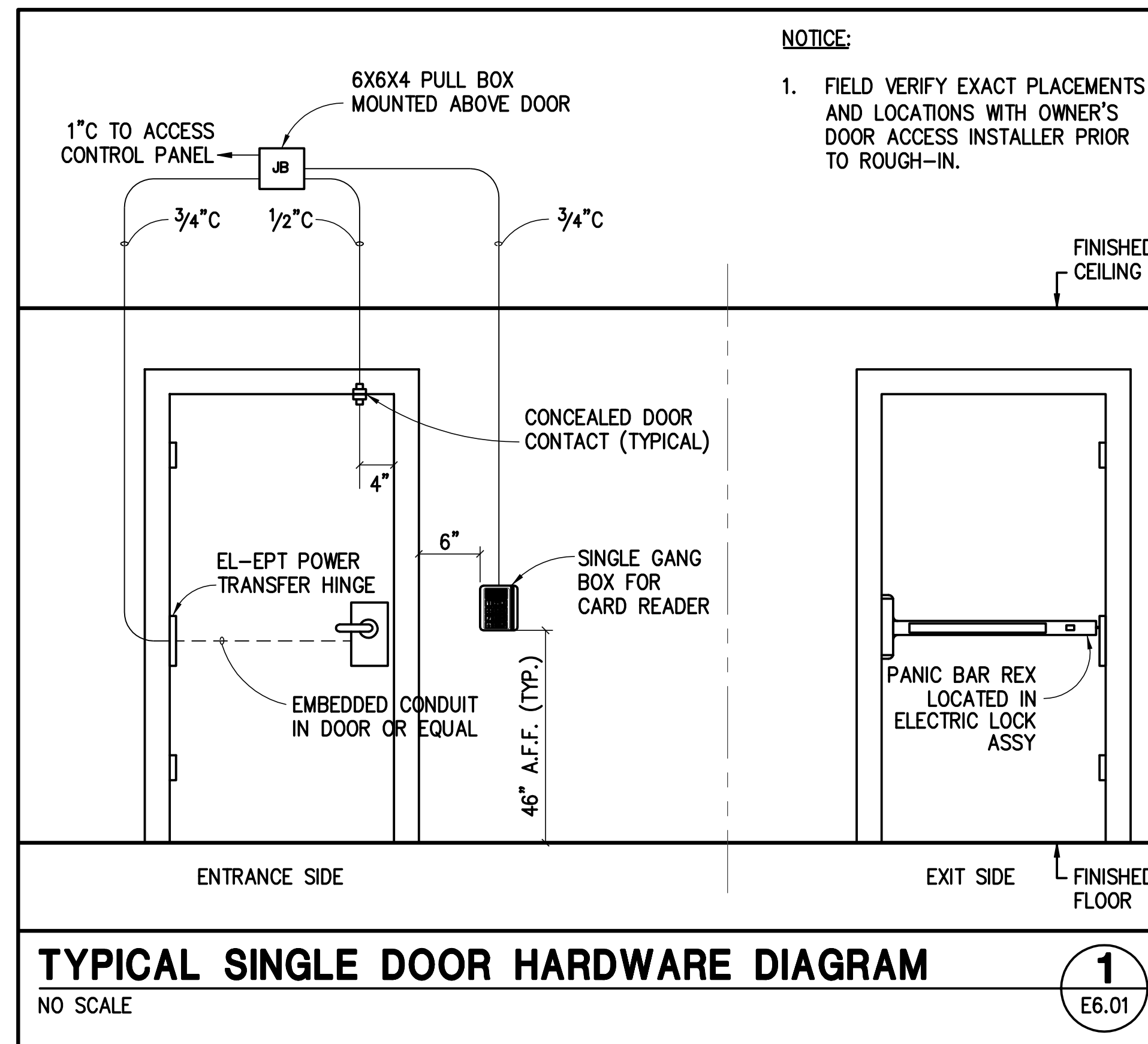
GROUNDING BUSBAR (TMGB) 3
NO SCALE E6.00



TTB ROOM GROUNDING DIAGRAM 4
NO SCALE E6.00



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St Bernard Parish Sheriff's Substation
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DIAGRAMS
SHEET NO
E6.01

#14-0078

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MONTESQUIEU STREET (UN-CONSTRUCTED)

PROPOSED SUPPORT BUILDING

PARIS ROAD
LA HWY 47
(NORTHBOUND LANES)

TREASURE STREET (UN-CONSTRUCTED)

L1B-13
② ③

③

PARKING

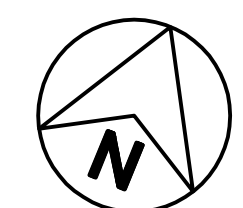
SEE SINGLE LINE DIAGRAM
FOR ADDITIONAL INFORMATION
AND E3.00 FOR LOCATIONS
OF EQUIPMENT

IT ROOM

PROPOSED
SUBSTATION

L1B-6
④
(TYP. OF 4)

NEW UTILITY POLE ①



SITE PLAN
1"=20'-0"

①
ES1.00

NOTICE

1. CONTRACTOR SHALL COORDINATE UTILITY (ENERGY AND TELECOM/DATA) REQUIREMENTS WITH UTILITY COMPANIES IN ORDER TO PROVIDE COMPLETE SERVICE TO BUILDING. ANY AND ALL COSTS REQUIRED BY UTILITIES SHALL BE INCLUDED IN THE BID AS A SEPARATE LINE ITEM. NO COST SHALL BE INCURRED BY OWNER OUTSIDE OF ORIGINAL BID.

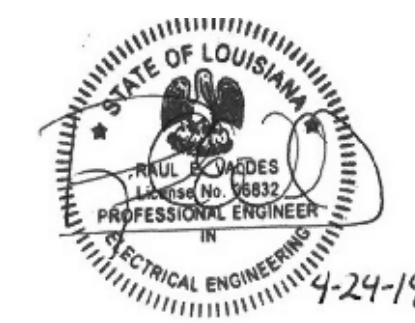
NOTES

- ① VERIFY LOCATION WITH UTILITY COMPANY.
- ② PROVIDE #10 AWG THROUGHOUT ENTIRE CIRCUIT.
- ③ IN ADDITION TO BRANCH CIRCUIT, ROUTE (1) 1" C WITH PULLSTRING TO I.T. ROOM FOR FUTURE POLE MOUNTED CAMERAS.
- ④ LIGHTING FOR SIGNAGE. VERIFY SIGNAGE LIGHTING OPTION WITH ARCHITECT/OWNER.
- ⑤ NOT USED
- ⑥ (2) 4" C TO JUNCTION BOX FOR CT CABINET.
- ⑦ (3) 4" C TO IT ROOM FOR TELEPHONE, DATA, AND FUTURE FIBER OPTIC CABLING.

Perez.

ARCHITECTURE
ENGINEERING
PLANNING
INTERIORS
LANDSCAPE
GRAPHICS

Perez
A PROFESSIONAL CORPORATION
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consulting Metairie, LA 70002
engineers p.504.830.0139

St Bernard Parish Sheriff's Substation
47

Paris Road

DATE: 04/24/14
PROJECT NO.: 01-09-1082-02

REVISIONS:

No.	Date	Description

DRAWN BY: CL
CHECKED BY: RV
SHEET TITLE

SITE PLAN

SHEET NO

ES1.00

#14-0078

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