

MASTER KEYNOTE LIST

Table with 2 columns: Keynote Number and Description. Includes items like 0100 DIVISION 01 - GENERAL REQUIREMENTS, 0150.01 TEMPORARY CONSTRUCTION FENCE, 0150.05 TEMPORARY TREE PROTECTION, etc.

Table with 2 columns: Keynote Number and Description. Includes items like 0725.06 SELF-ADHERING FLEXIBLE SURROUND FLASHING, 0740.01 PREFINISHED METAL ROOF PANEL, 0740.05 Z-CLOSURE BY STANDING SEAM METAL ROOF MANUFACTURER, etc.

Table with 2 columns: Keynote Number and Description. Includes items like 1130.10 OUTDOOR GAS GRILLE (O.P.C.), 1130.11 FOOD DISPOSAL, 1130.12 RANGE HOOD, etc.

MASTERFORMAT 2004

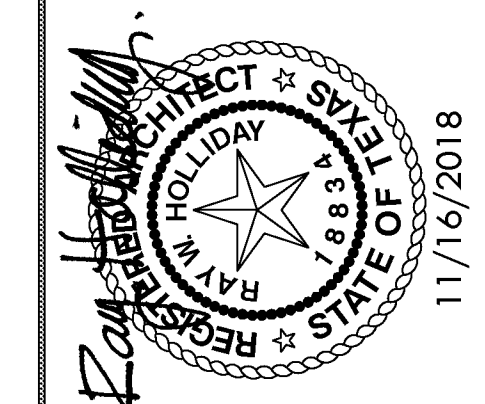
THE MASTER KEYNOTE LIST USES CSI MASTERFORMAT 2004 EDITION LEVEL 2 NUMBERS AND TITLES

Table with 3 columns: Example Keynote, Division, and (Unique Identifier). Includes 0960.01 - 09 (DIVISION) 60 (LEVEL 2) 01 (UNIQUE IDENTIFIER)

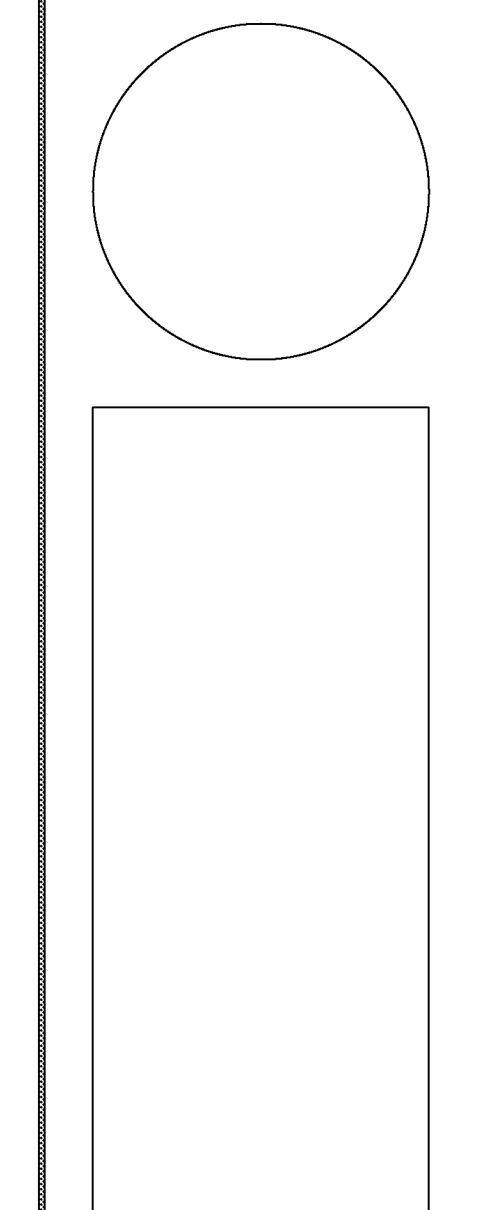
NOTE:

WHERE KEYNOTES REFERENCE OTHER ENGINEERING DISCIPLINES, SUCH AS:

(RE: STRUCTURAL), (RE: CIVIL), (RE: MECHANICAL), (RE: PLUMBING), (RE: ELECTRICAL), (RE: MEP), REFER TO ENGINEERS DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL DETAILS AND INFORMATION...



BRW REYNOLDS WATFORD ARCHITECTS logo and contact information: 172 CENTURY SQUARE DRIVE, SUITE 530, FORT WORTH, TEXAS 76104, 817.894.1791, WWW.BRWARCH.COM



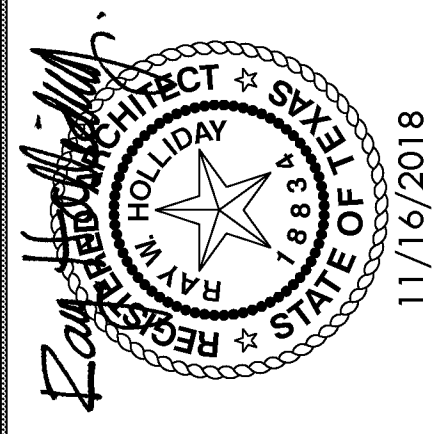
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CITY OF GEORGETOWN FIRE STATION No. 6 logo and address: 6700 R.M. 2338 GEORGETOWN, TX 78633

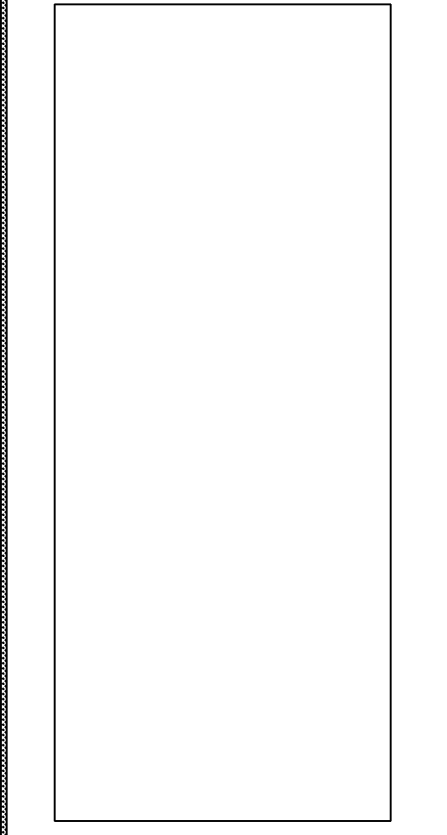
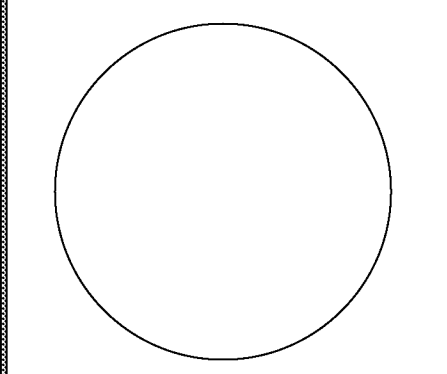
Table with 2 columns: NO. and DATE. A grid for tracking revisions.



MASTER KEYNOTE LIST



BROWN REYNOLDS WATFORD ARCHITECTS
 172 CENTURY SQUARE DRIVE
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CITY OF GEORGETOWN
 FIRE STATION No. 6
 6700 R.M. 2338
 GEORGETOWN, TX, 78633

NO.	REVISION	DATE

LS1.1

KEYNOTES

- 0320.01 DOWEL INTO CONCRETE SLAB
- 0320.02 STEEL REINFORCING (RE: STRUCTURAL)
- 0330.02 CONCRETE SLAB (RE: STRUCTURAL)
- 0330.05 CONCRETE GRADE BEAM (RE: STRUCTURAL)
- 0330.07 CONCRETE FOOTING (RE: STRUCTURAL)
- 0420.02 HORIZONTAL REINFORCING AT 16" O.C. VERTICALLY
- 0420.13 6" CONCRETE MASONRY UNITS
- 0420.23 CONCRETE MASONRY BOND BEAM
- 0420.24 VERTICAL REINFORCING IN CONCRETE MASONRY UNITS (RE: STRUCTURAL)
- 0610.05 1/2" EXTERIOR GRADE PLYWOOD
- 0610.10 2 X 6 WOOD STUDS AT 16" O.C.
- 0610.29 2X WOOD FURRING STRIPS
- 0640.52 WOOD STAIR STRINGER
- 0640.54 WOOD STAIR TREAD
- 0725.01 UNDERSLAB VAPOR BARRIER
- 0790.01 SEALANT WITH BACKER ROD AS REQUIRED
- 0830.27 TORNADO RESISTANT DOOR AND FRAME
- 0920.17 5/8" GYPSUM BOARD ON METAL SUSPENSION SYSTEM
- 0920.28 5/8" GYPSUM BOARD (TYPE X)
- 0920.38 PRE-MANUFACTURED CONTINUOUS ALUMINUM F REVEAL MOLDING
- 0920.45 5/8" GYPSUM BOARD MOISTURE RESISTANT (TYPE X)
- 0950.01 SUSPENDED ACOUSTICAL LAY-IN TILE CEILING (2' X 2')
- 1040.02 FIRE EXTINGUISHER AND WALL BRACKET
- 1040.03 FIRE EXTINGUISHER AND SEMI-RECESSED CABINET

LEGEND

- EXIT EXIT / EXIT DISCHARGE
- MEANS OF EGRESS PATH
- FIRE EXTINGUISHER
- 1-HR FIRE BARRIER
- 2-HR FIRE BARRIER
- ILLUMINATED EXIT SIGN CEILING / WALL MOUNT

CODE ANALYSIS

IBC CONSTRUCTION TYPE	V-B
SPRINKLER SYSTEM	FULL NFPA 13
OCCUPANCY TYPE	MIXED (B, S-1)
REQUIRED SEPARATION	NOT REQUIRED PER TABLE 508.4 2012 IBC
OCCUPANCY LOAD	79
BUSINESS STORAGE	32
TOTAL	111

TOTAL AREA (APPROPRIATE FOR CODE REVIEW ONLY)

FIRST FLOOR	9,665 SF
STORAGE/MECH. ABOVE	1,870 SF

NOTE:

- 1) SQUARE FOOTAGES IN ANALYSIS ARE FOR CODE OFFICIALS AND OWNER. CONTRACTOR SHALL MAKE HIS/HER OWN TAKE OFFS AND CALCULATIONS AS REQUIRED.
- 2) EXIT/EGRESS SIGNAGE: PROVIDE INTERIOR TACTILE ROOM SIGNAGE AT ALL DOORS ALONG PASSAGEWAYS, EXIT STAIRWAYS, AND EXIT DISCHARGE LEADING TO ACCESSIBLE MEANS OF EGRESS. REFER TO SIGNAGE ON DRAWING AS.0

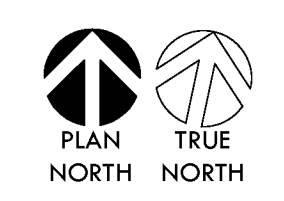
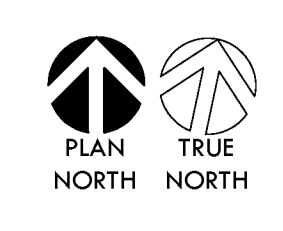
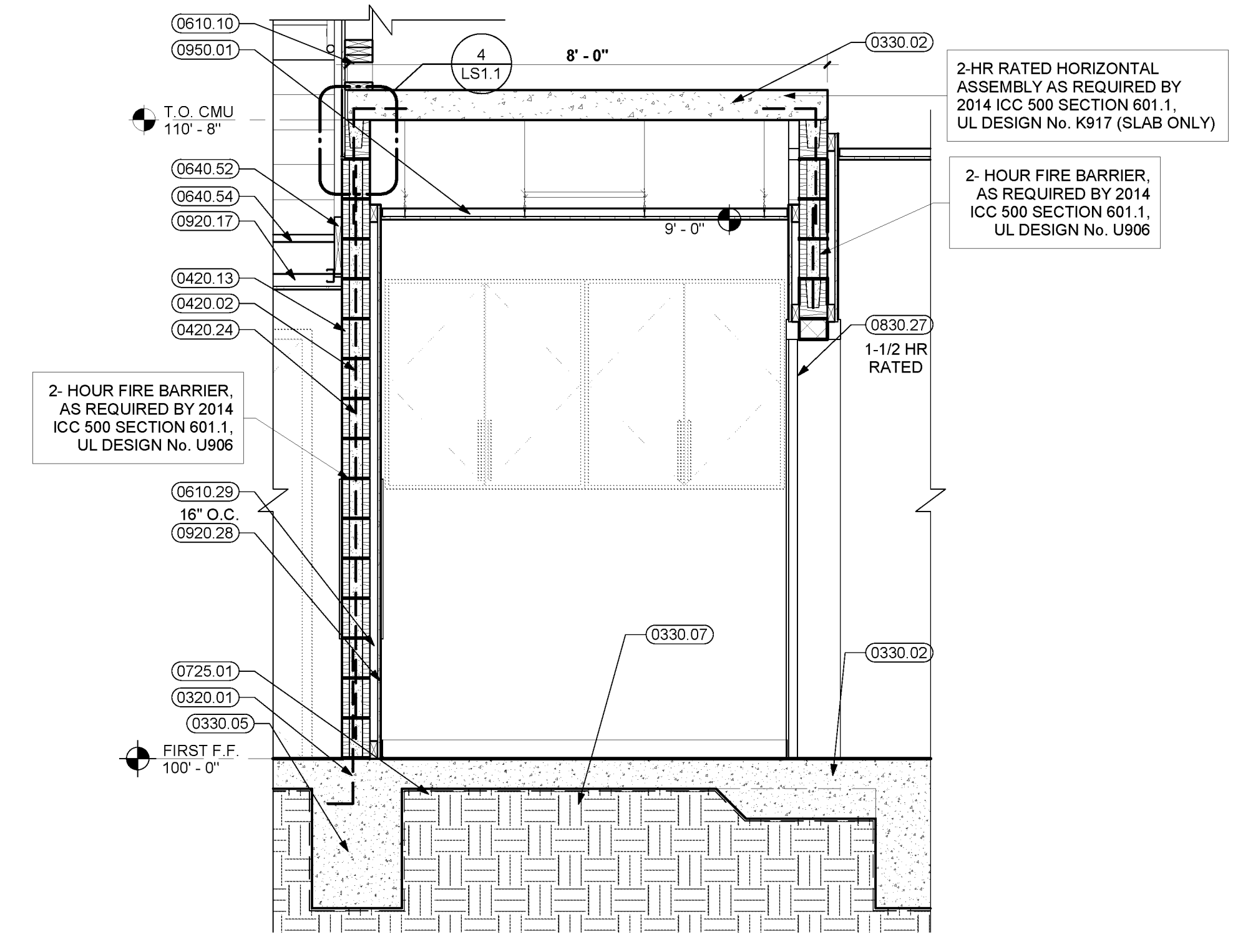
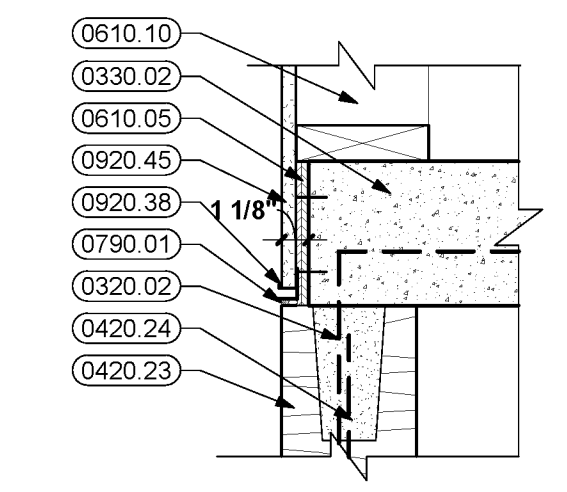
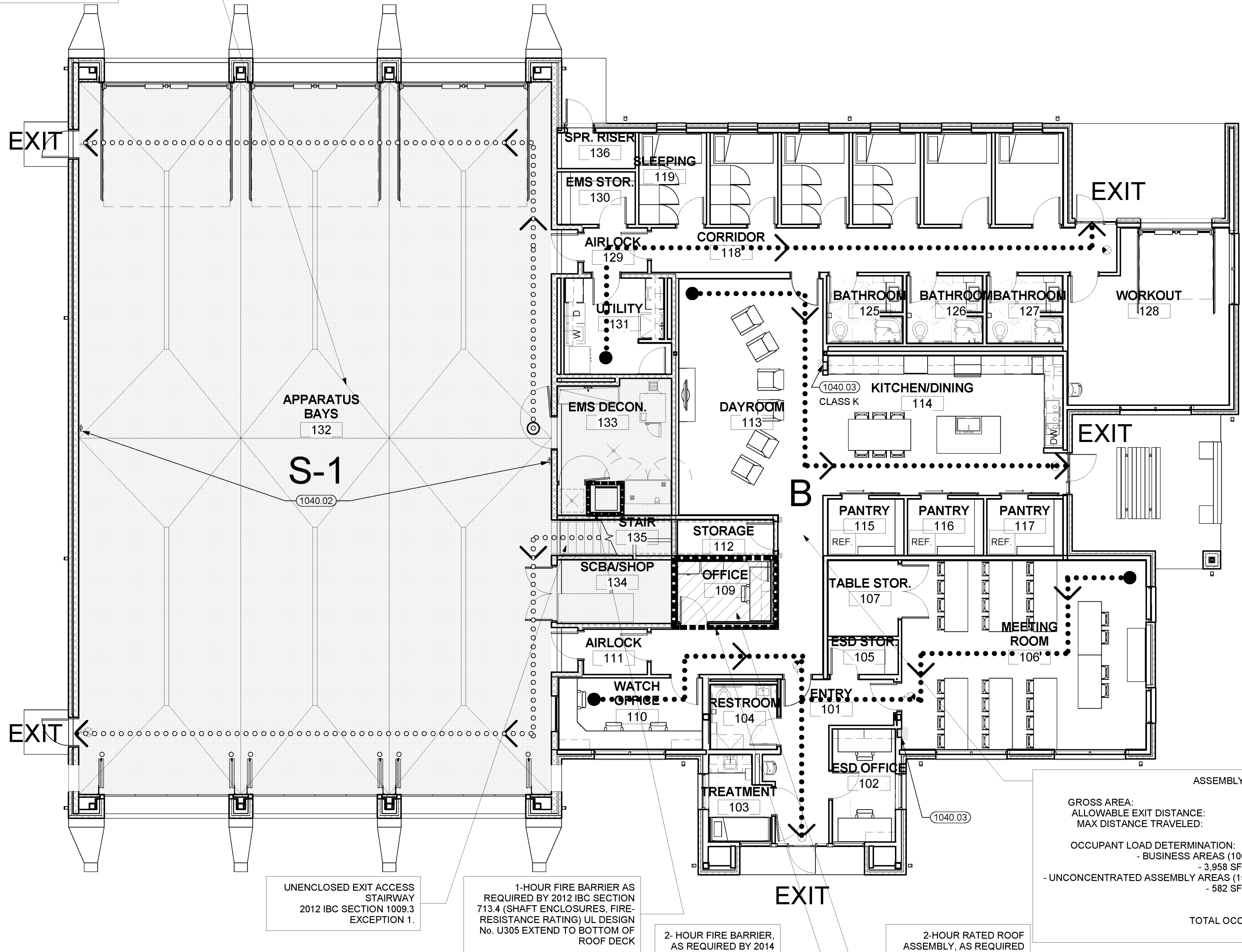
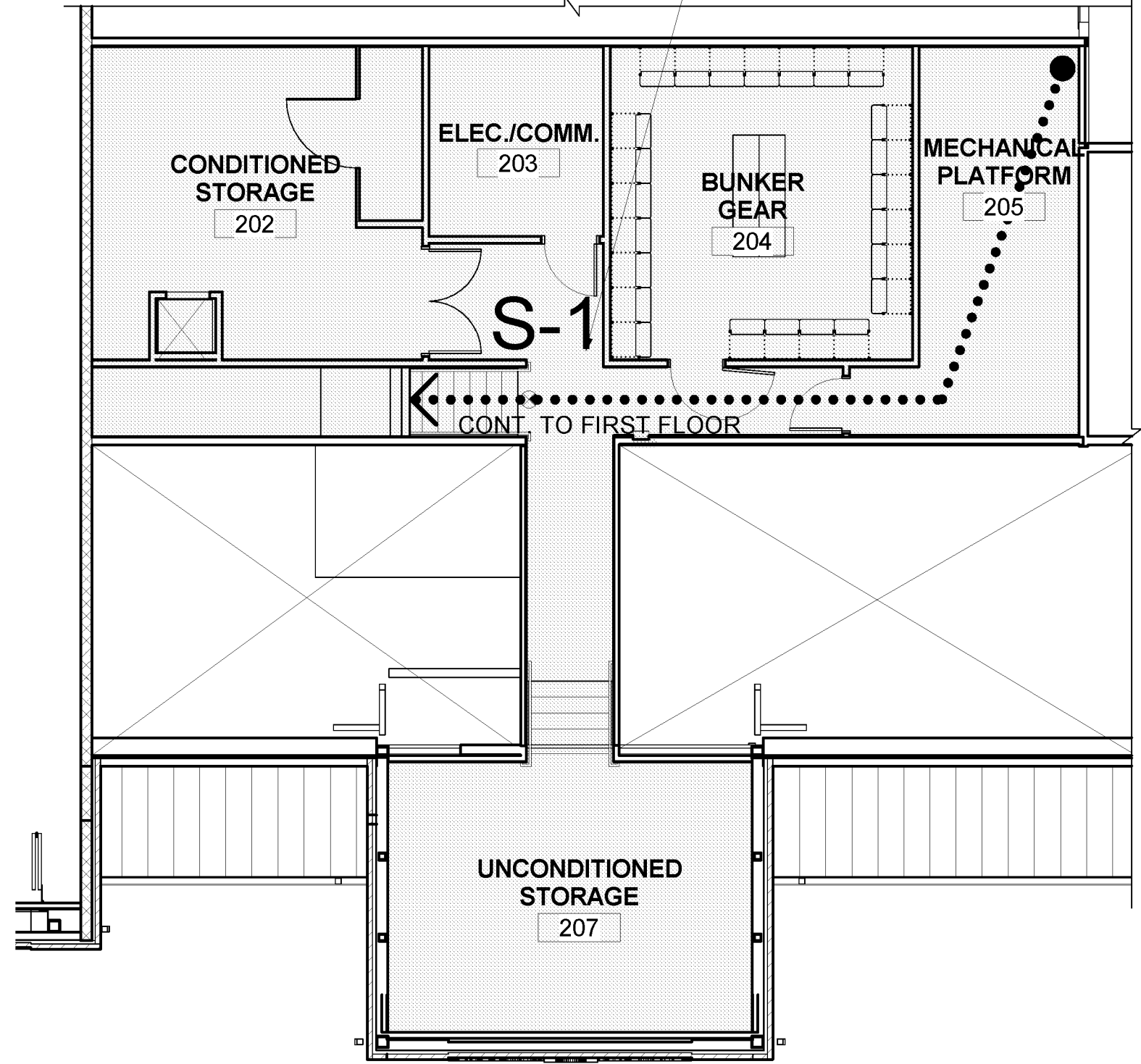
STORAGE 'S-1' OCCUPANCY

GROSS AREA:	6,994 SF
ALLOWABLE EXIT DISTANCE:	250' - 0"
MAX DISTANCE TRAVELED:	144' - 4"

OCCUPANT LOAD DETERMINATION:

- FIRE APPARATUS BAYS (200 SF/OCCUPANT) - 4,721 SF, 24 OCCUPANTS
- STORAGE AREAS/MECH. EQUIPMENT ROOMS ABOVE (300 SF/OCCUPANT) - 2,273 SF, 8 OCCUPANTS

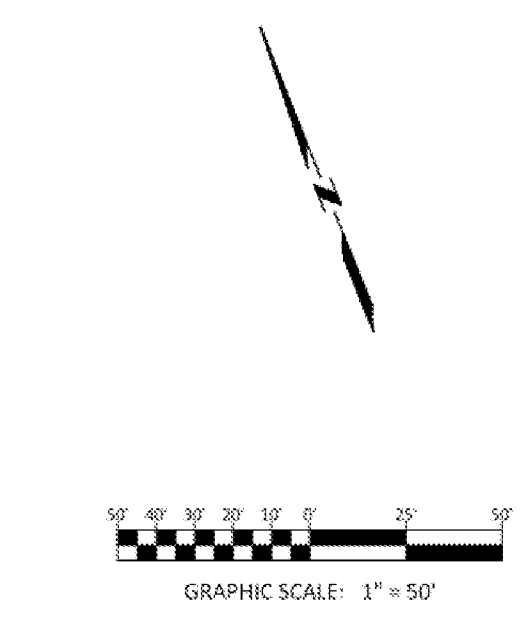
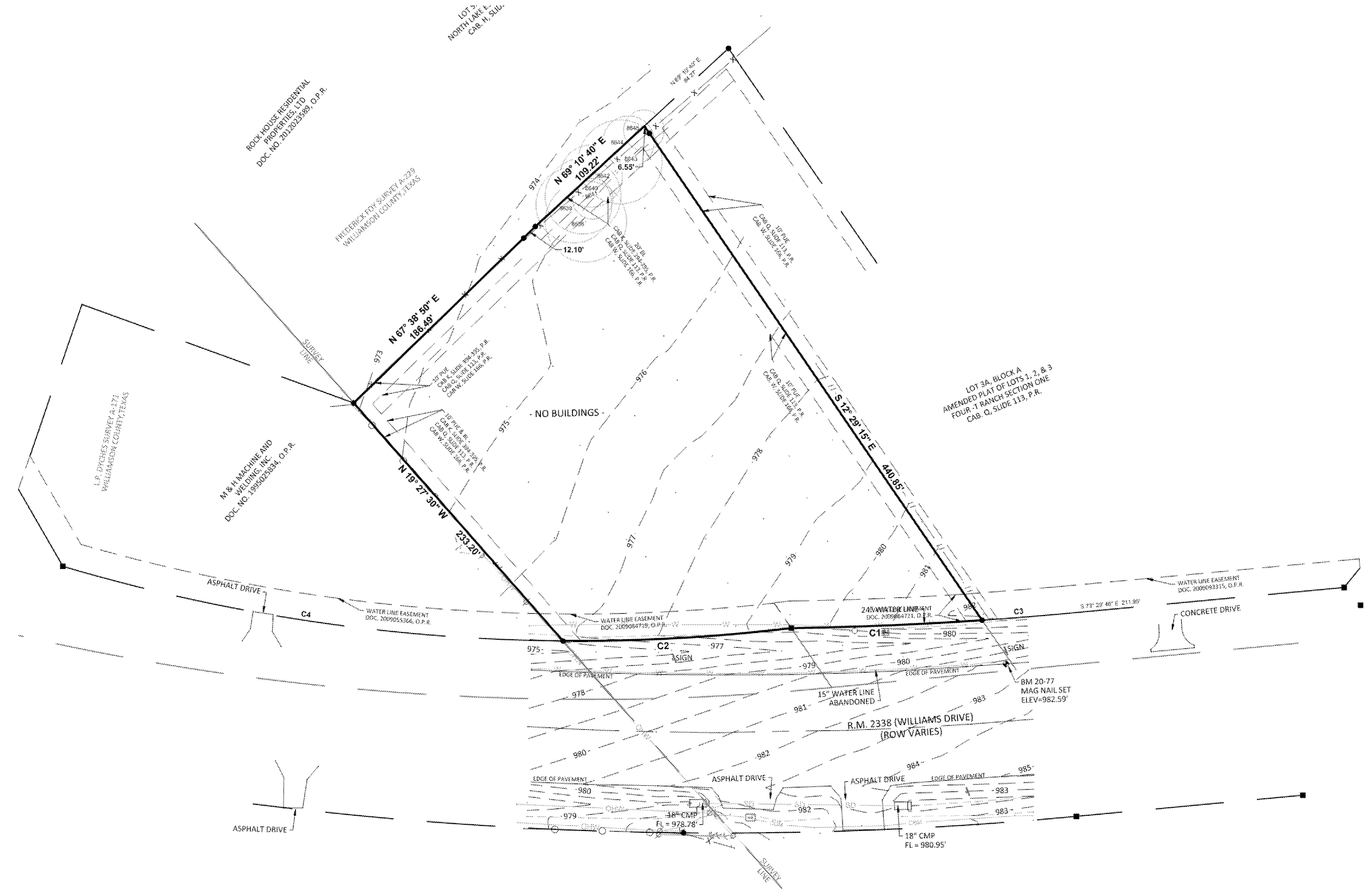
TOTAL OCCUPANT LOAD: 32



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- NOTES:**
- BY GRAPHIC PLOTTING ONLY, THIS PROPERTY IS IN ZONE X (NOT SHADED) AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP COMMUNITY PANEL NO. 480501275E THAT BEARS AN EFFECTIVE/REVISED DATE OF SEPTEMBER 26, 2008. THE SURVEYOR MAKES NO ASSURANCE AS TO THE ACCURACY OF THE DESIGNATIONS SHOWN ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP. THIS STATEMENT IS FOR INSURANCE PURPOSES ONLY AND IS NOT AN OPINION THAT THE PROPERTY WILL OR WILL NOT FLOOD. A FLOOD STUDY WAS NOT CONDUCTED ON THE PROPERTY.
 - BEARINGS ARE BASED ON THE TEXAS COORDINATE SYSTEM OF 1983, CENTRAL ZONE (8403 83 12013). ALL DISTANCES SHOWN HEREON ARE SURFACE VALUES REPRESENTED IN U.S. SURVEY FEET BASED ON A GRID-TO-SURFACE COMBINED ADJUSTMENT FACTOR OF 1.00015.
 - VERTICAL POSITIONS WERE DETERMINED USING THE LEICA SMARTNET™ AND GPS REAL TIME SURVEY METHODS AND ARE REFERENCED TO NORTH AMERICAN VERTICAL DATUM (NAVD83) USING GEOID 12A.
 - THE SYMBOLS REFLECTED IN THE LEGEND AND ON THIS SURVEY MAY HAVE BEEN ENLARGED FOR CLARITY. THE SYMBOLS HAVE BEEN PLOTTED AT THE CENTER OF THE FIELD LOCATION AND MAY NOT REPRESENT THE ACTUAL SIZE OR SHAPE OF THE FEATURE.
 - TREES SHOWN HERE ON WERE LOCATED AND MEET THE STANDARDS SET FORTH IN THE CITY OF GEORGETOWN UNIFIED DEVELOPMENT CODE, CHAPTER 8, TREE PRESERVATION, LANDSCAPING AND FENCING, SECTION 8.02, TREE PRESERVATION AND PROTECTION. OTHER TREES AND VEGETATION MAY EXIST ON SITE.
 - (M) - TREE DIAMETER OF MULTI-TRUNK TREE DETERMINED BY ADDING THE DIAMETER OF THE LARGEST TRUNK TO 1/2 THE DIAMETER OF EACH ADDITIONAL TRUNK.
 - TREE CROWNS SHOWN HERE ON ARE A GRAPHICAL DEPICTION OF THE PROBABLE EXTENTS OF THE TREE CANOPY BASED ON THE TRUNK SIZE USING THE FORMULA OF ONE (1) FOOT OF RADIUS FOR EVERY ONE (1) INCH OF TRUNK DIAMETER AND MAY NOT REPRESENT THE ACTUAL SIZE OR SHAPE OF THE TREE CANOPY.
 - UTILITY INFORMATION SHOWN HEREON CONSTITUTES FIELD RECOVERY OF OBSERVED EVIDENCE OF UTILITIES TOGETHER WITH EVIDENCE FROM MARKINGS BY UTILITY COMPANIES CONTACTED THROUGH THE "ONE TEST" UTILITY LOCATING SERVICE. LOCATIONS OF UNDERGROUND UTILITIES/STRUCTURES MAY VARY FROM LOCATIONS SHOWN HEREON. ADDITIONAL BURIED UTILITIES/STRUCTURES, SUCH AS ELECTRICAL, TELEPHONE, CABLE TV AND PIPELINES, MAY BE ENCOUNTERED. NO EXCAVATIONS WERE MADE DURING THE PROGRESS OF THIS SURVEY TO LOCATE BURIED UTILITIES/STRUCTURES. FOR INFORMATION REGARDING BURIED UTILITIES/STRUCTURES OR BEFORE ANY EXCAVATION IS BEGUN, CONTACT THE APPROPRIATE AGENCIES FOR VERIFICATION OF UTILITY TYPE AND FOR FIELD LOCATION.
 - REFERENCE IS HEREBY MADE TO THAT CERTAIN TITLE COMMITMENT (THE "TITLE COMMITMENT") ISSUED BY FIRST AMERICAN TITLE INSURANCE COMPANY, UNDER OF NO. 201921210 EFFECTIVE JUNE 10, 2017, ISSUED JUNE 27, 2017. THE EASEMENTS AND RESTRICTIONS LISTED ON SCHEDULE B OF THE TITLE COMMITMENT WERE REVIEWED BY THE SURVEYOR AND ARE SHOWN HEREON. SURVEYOR HAS RELIED UPON THE TITLE COMMITMENT AND MADE NO INDEPENDENT INQUIRY AS TO EASEMENTS AND RESTRICTIONS AFFECTING THE PROPERTY, OTHER THAN VISIBLE AND APPARENT EASEMENTS NOTED BY SURVEYOR DURING THE PREPARATION OF THE SURVEY AND REFLECTED HEREON.

BENCHMARK:
 BM 20-77 MAG NAIL WITH WASHER STAMPED "CONTROL POINT" SET IN EDGE OF PAVEMENT OF R.M. 2338, APPROXIMATELY 10 FEET SOUTHWEST OF SIGN MARKING MILES TO ANDICE, "ANDICE 9," AND APPROXIMATELY 205 FEET NORTH WEST OF A "FOOT TYPE B CONCRETE MONUMENT FOUND."
 NORTHING: 1023217.32
 EASTING: 1104251.34
 ELEV: 982.59



TREE LIST

1042P	Overhead
8018	20\"/>

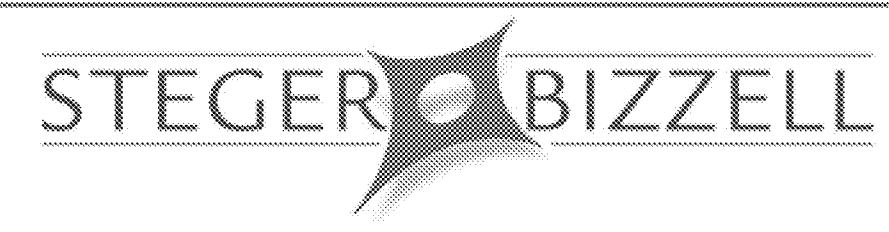
LEGEND

■	FOOT TYPE B MONUMENT FOUND
●	IRON REBAR FOUND (12\"/>

THIS IS TO CERTIFY THAT THIS SURVEY WAS MADE ON THE GROUND JULY 19 & 20, 2017, BY ME OR UNDER MY SUPERVISION, THAT THIS SURVEY PLAT REPRESENTS THE FACTS FOUND AT THE TIME OF THE SURVEY, AND THAT THIS SURVEY SUBSTANTIALLY COMPLIES WITH THE CURRENT TEXAS SOCIETY OF PROFESSIONAL LAND SURVEYORS STANDARDS AND SPECIFICATIONS FOR A CATEGORY 1A, CONDITION II, LAND TITLE SURVEY.
 STEGER BIZZELL
 MIGUEL A. ESCOBAR, L.S.L.S., R.P.L.S. DATE
 TEXAS REG. NO. 5830
 1978 S. AUSTIN AVE
 GEORGETOWN, TEXAS
 PHONE 512.430.3412
 TBPLS FIRM REG. # 10003700

NO.	REVISION	BY	DATE

DESIGNED BY: _____ DATE: _____
 DRAWN BY: _____ DATE: _____
 CHECKED BY: _____ DATE: _____
 APPROVED BY: _____ DATE: _____



ADDRESS 1978 S. AUSTIN AVENUE GEORGETOWN, TX 78626
 PHONE 512.930.8412 TEXAS REGISTERED ENGINEERING FIRM # 181 TBS STEGERBIZZELL.COM
 SERVICES ==ENGINEERS ==PLANNERS ==SURVEYORS

TOPOGRAPHIC SURVEY OF LOT A & LOT B OF THE AMENDED PLAT OF LOTS 1, 2, & 3, BLOCK A FOUR-T RANCH SECTION ONE SUBDIVISION OUT OF THE FREDERICK FOY SURVEY A-229 WILLIAMSON COUNTY, TEXAS

Project No: 22536
SHEET 01
 of 01

NOTE:
 THIS SURVEY IS PROVIDED FOR INFORMATION PURPOSES ONLY. IT WAS PREPARED BY STEGER BIZZELL FOR WILLIAMSON COUNTY ESSD NO. 01 CITY OF GEORGETOWN, NOT BY OR UNDER DIRECTION OF BROWN REYNOLDS WATFORD ARCHITECTS, INC.
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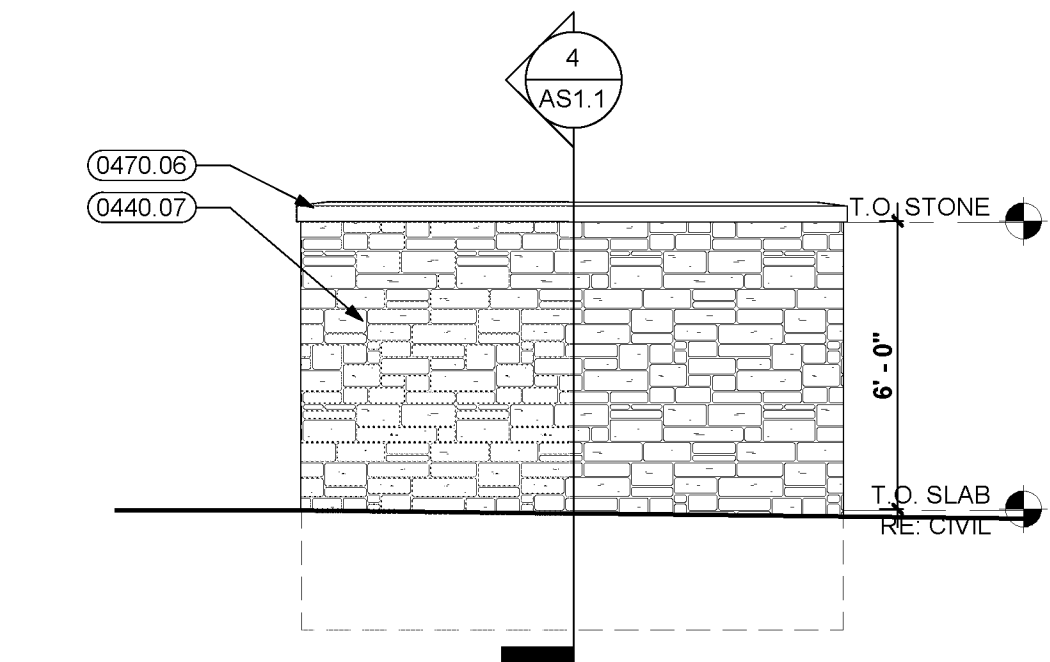
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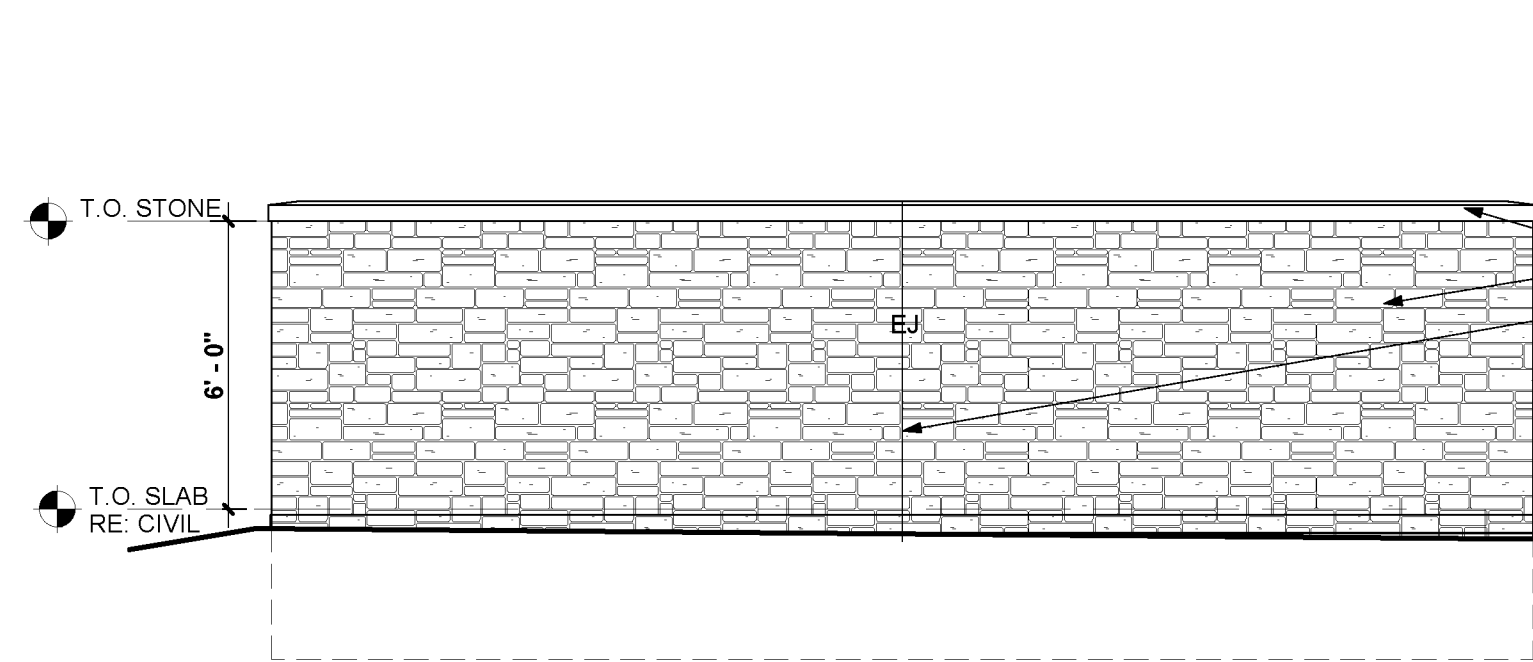
CITY OF GEORGETOWN
 FIRE STATION No. 6
 6700 R.M. 2338
 GEORGETOWN, TX 78633

NO.	REVISION	DATE

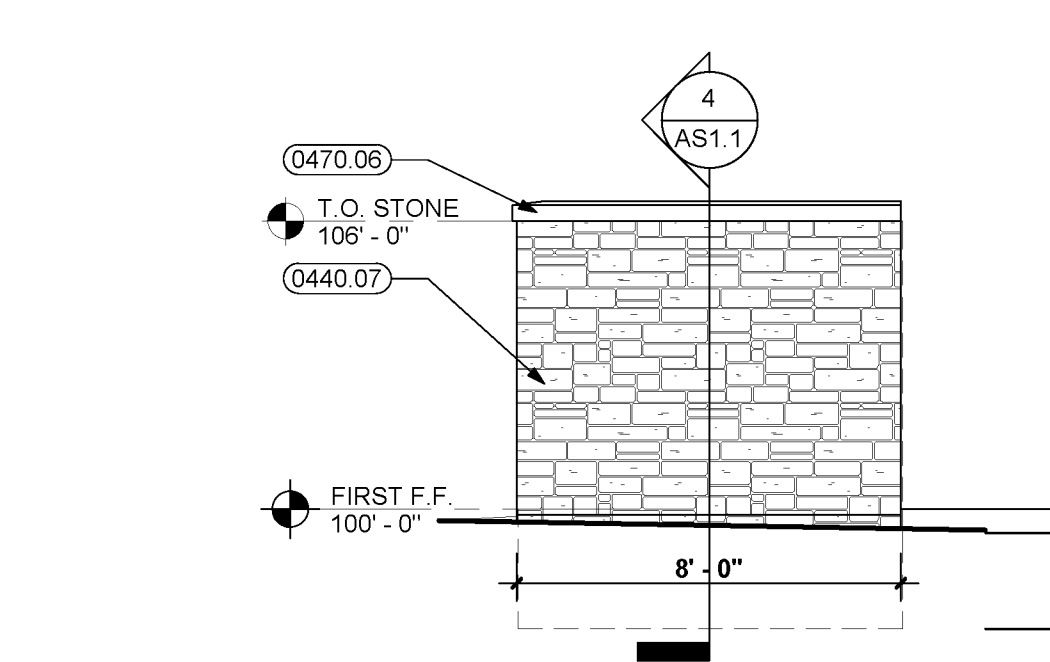
CO.0
 BOUNDARY AND TOPOGRAPHY SURVEY



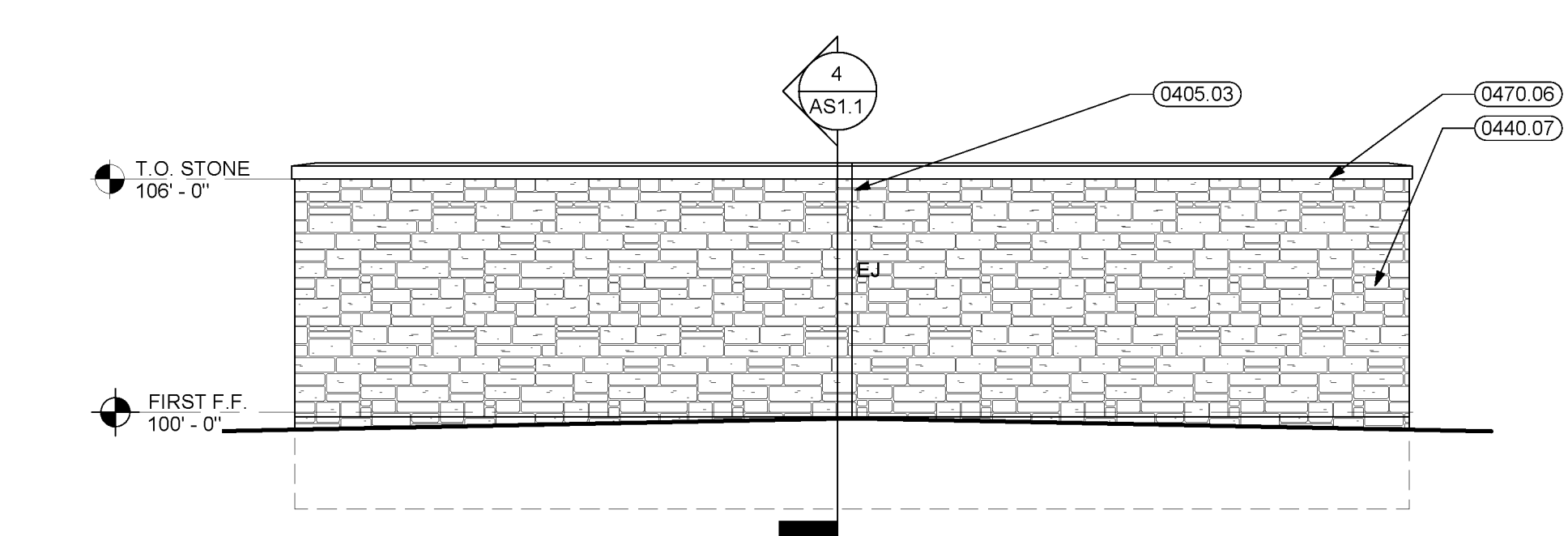
4 EXTERIOR ELEV. (SOUTHEAST)
1/4" = 1'-0"



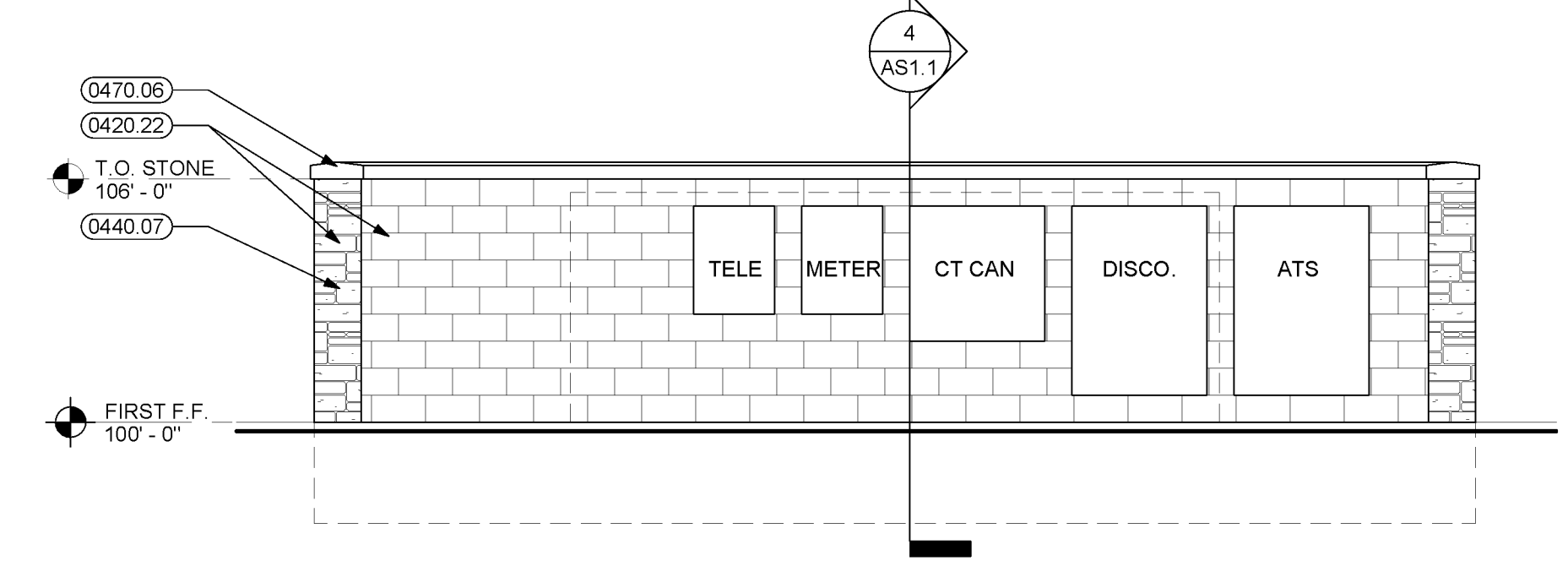
3 EXTERIOR ELEV. (NORTHEAST)
1/4" = 1'-0"



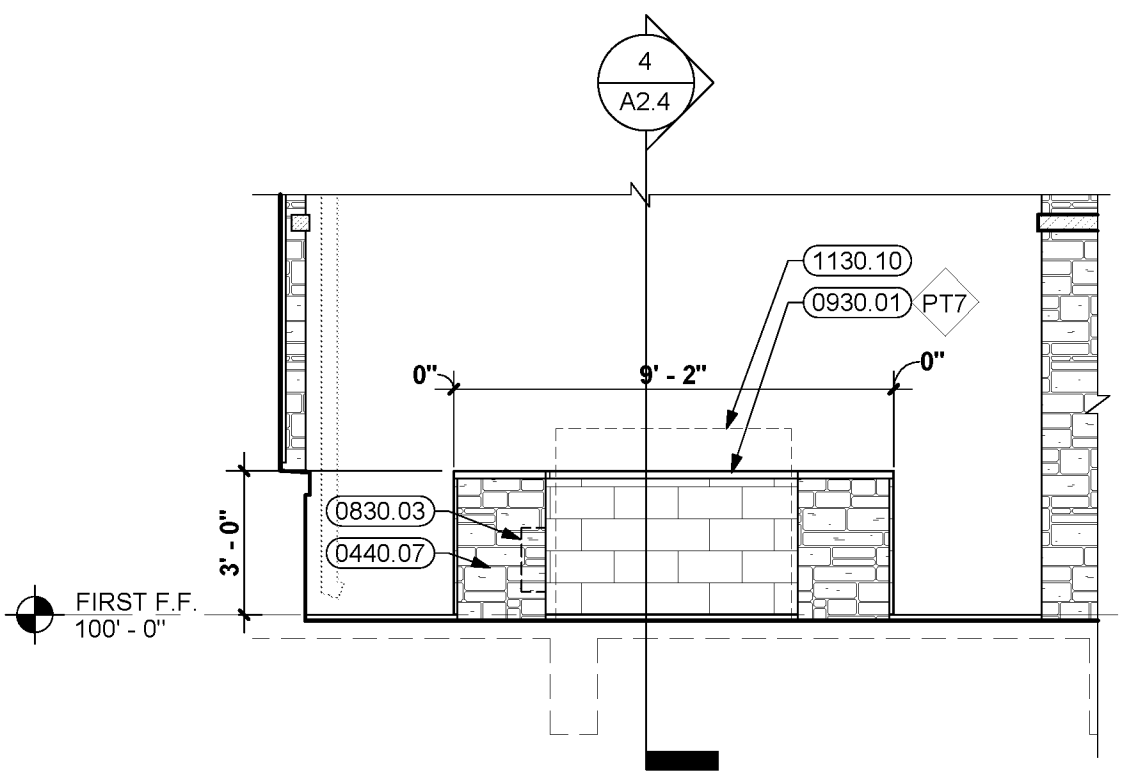
2 EXTERIOR ELEVATION (EAST/WEST O.H.)
1/4" = 1'-0"



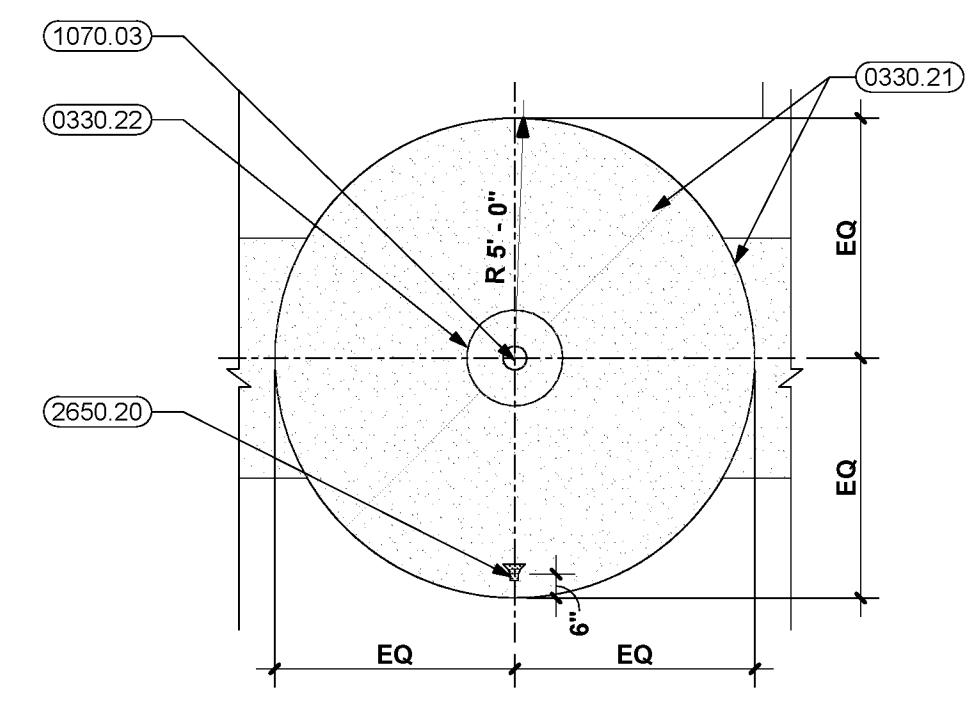
1 EXTERIOR ELEVATION (SOUTH)
1/4" = 1'-0"



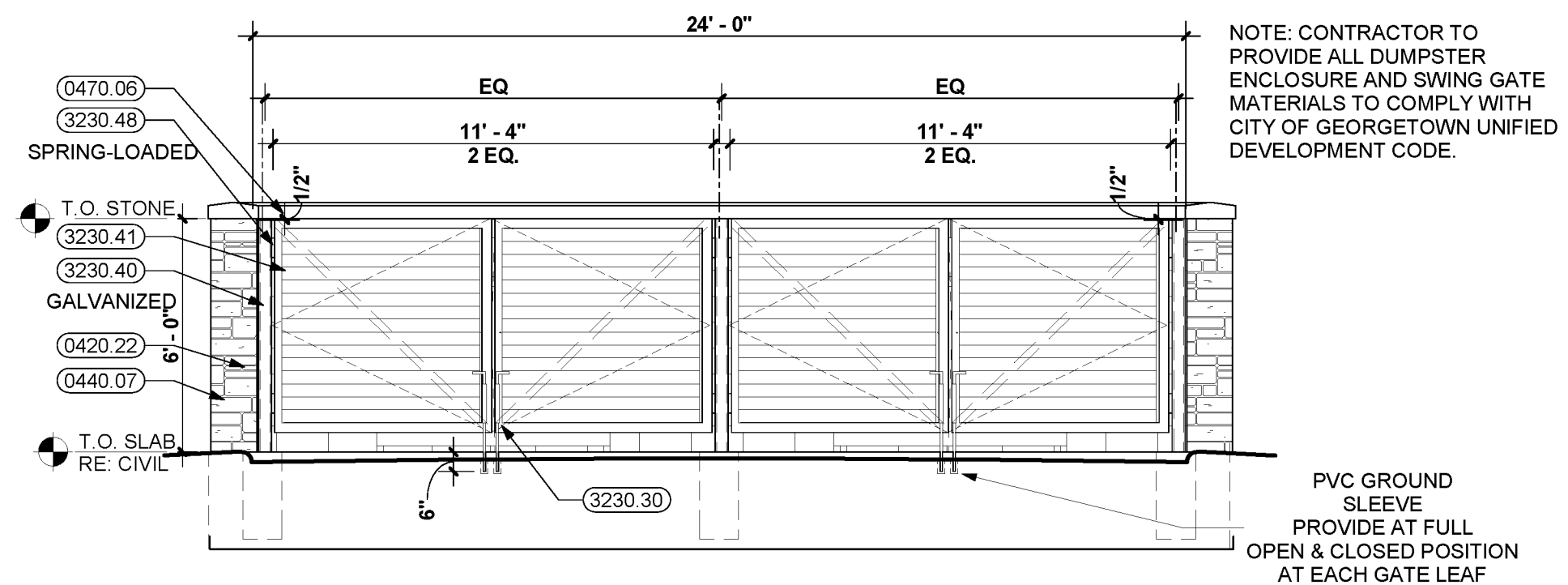
8 EXTERIOR ELEVATION (NORTH)
1/4" = 1'-0"



7 EXTERIOR ELEV.
1/4" = 1'-0"

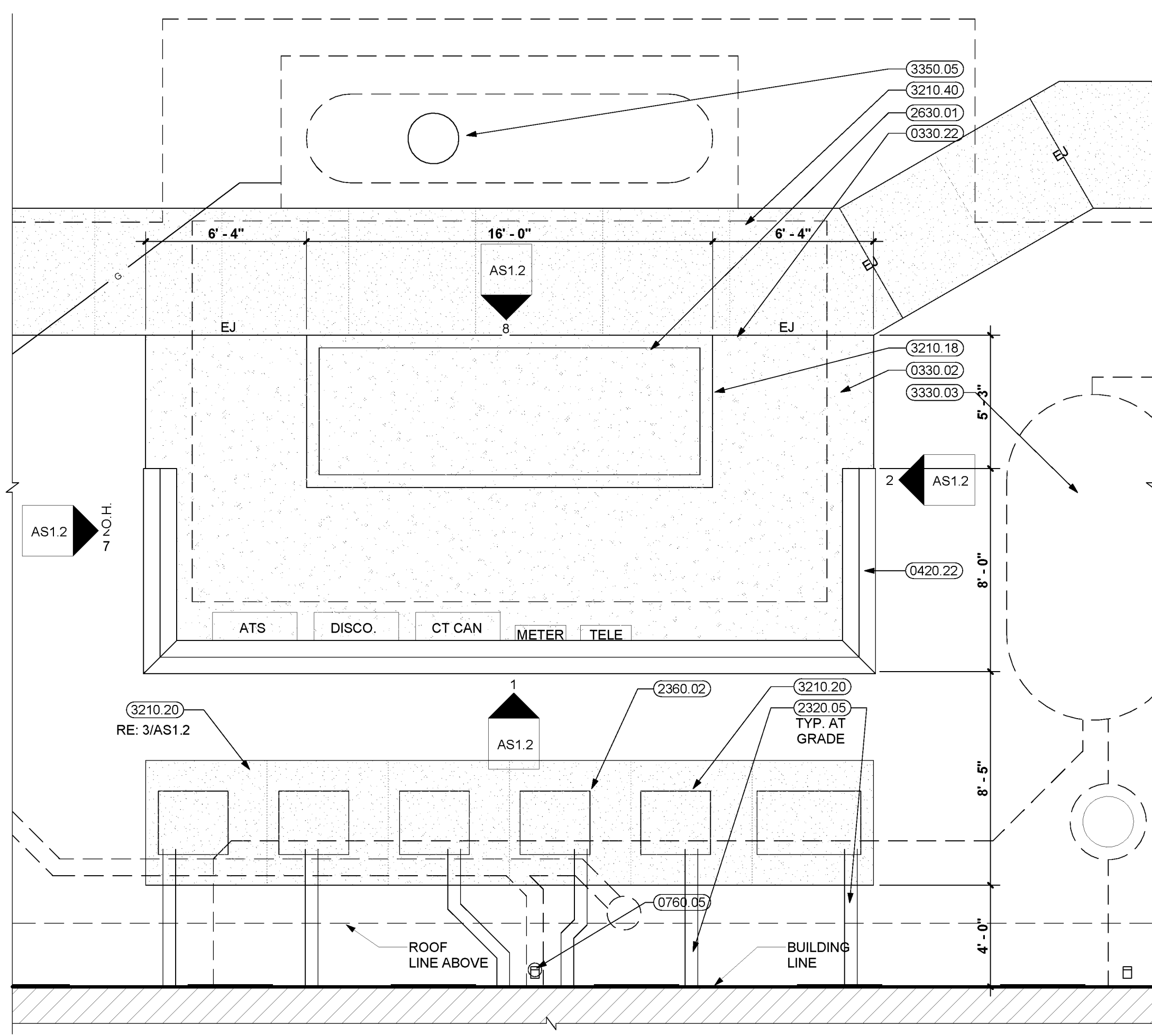


6 FLAGPOLE DETAIL
1/4" = 1'-0"

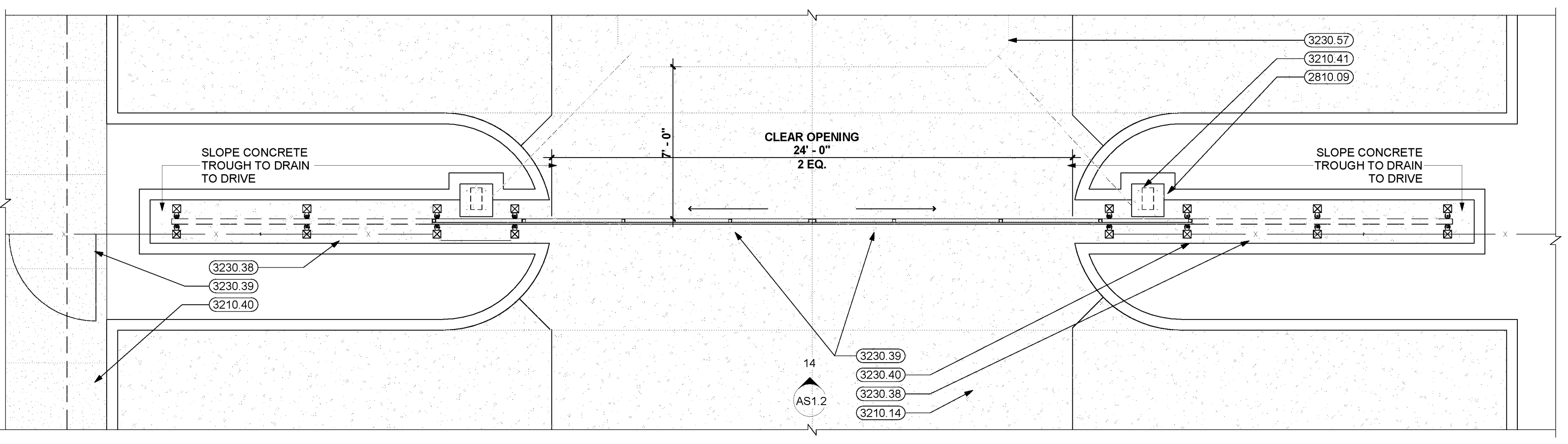


5 EXTERIOR ELEV. (SOUTHWEST)
1/4" = 1'-0"

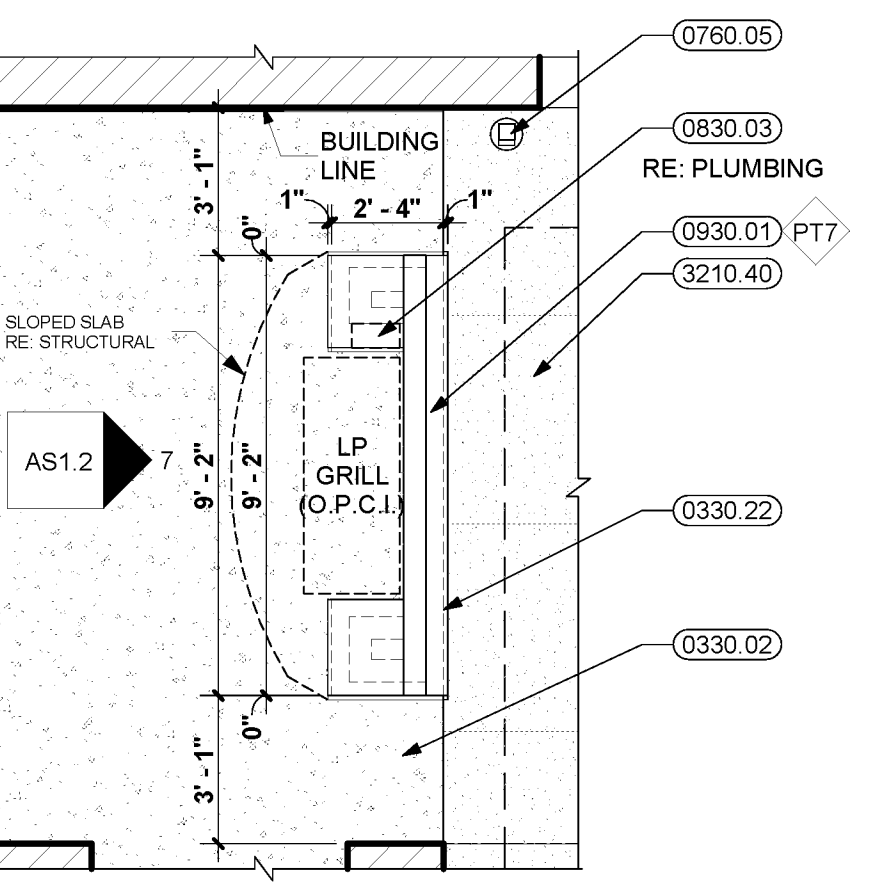
- KEYNOTES**
- 0330.01 CONCRETE (RE: STRUCTURAL)
 - 0330.02 CONCRETE SLAB (RE: STRUCTURAL)
 - 0330.12 CONCRETE BOLLARD
 - 0330.21 SAWCUT CONTROL JOINT
 - 0330.22 CONCRETE EXPANSION JOINT - FILL W/ JOINT SEALER 1/4" BELOW SURFACE
 - 0405.03 MASONRY EXPANSION JOINT
 - 0420.22 STONE / CONCRETE MASONRY UNIT SCREEN WALL WITH HORIZONTAL REINFORCING AT 16" O.C. VERTICALLY
 - 0440.07 STONE VENEER
 - 0470.06 CAST STONE CAP - PIN BOLT CONNECTIONS
 - 0470.07 CAST STONE SIGNAGE PANEL
 - 0550.59 HOT-DIPPED GALVANIZED STEEL PIPE U-BRACKET CLAMP
 - 0550.60 GALVANIZED 6" PIPE BOLLARD, FILL WITH CONCRETE
 - 0760.05 GALVANIZED METAL DOWNSPOUT WITH FABRICATED TRANSITION TO DOWNSPOUT BOOT
 - 0830.03 WALL ACCESS PANEL
 - 0930.01 PORCELAIN TILE
 - 1010.33 POLE MOUNTED SIGNAGE - "H.C. PARKING ONLY"
 - 1010.34 POLE MOUNTED SIGNAGE - "VAN ACCESSIBLE"
 - 1010.51 GATE MOUNTED SIGNAGE - "PULL FORWARD TO LINE TO ACTIVATE GATE"
 - 1070.03 GROUND-SET FLAGPOLE
 - 1130.10 OUTDOOR GAS GRILLE (O.P.C.I.)
 - 1180.01 DUMPSTER (N.I.C.)
 - 1180.02 RECYCLING DUMPSTER (N.I.C.)
 - 2320.05 INSULATED CONDENSATE PIPING, ROUTE THROUGH 4" PERFORATED PIPE TO BUILDING
 - 2360.02 HVAC CONDENSING UNIT
 - 2630.01 EMERGENCY GENERATOR
 - 2650.20 FLAGPOLE LIGHT FIXTURE
 - 2810.09 SLIDING GATE OPERATOR
 - 3210.09 4" CONCRETE SIDEWALK WITH #3'S AT 16" O.C. E.W.
 - 3210.14 CONCRETE PAVING (RE: CIVIL)
 - 3210.18 CONCRETE GENERATOR PAD
 - 3210.20 CONCRETE CONDENSER PAD
 - 3210.27 BRICK ADA WARNING PAVEMENT
 - 3210.30 6" CONCRETE CURB (WITH GUTTER AS REQUIRED) (RE: CIVIL)
 - 3210.40 CONCRETE SIDEWALK (RE: CIVIL)
 - 3210.41 CONCRETE GATE OPERATOR PAD
 - 3230.30 1" PLUNGER ROD AND GUIDE
 - 3230.38 DECORATIVE METAL FENCE
 - 3230.39 DECORATIVE METAL GATE
 - 3230.40 4" X 4" STEEL TUBE POST
 - 3230.41 GALVANIZED TUBE STEEL GATE WITH FIXED LOUVERS
 - 3230.48 HEAVY DUTY METAL HINGES
 - 3230.53 MONUMENT SIGN
 - 3230.57 VEHICLE DETECTION LOOP
 - 3330.03 SEPTIC TANK (RE: SPECIFICATION SECTION 33 36 00)
 - 3350.05 BELOW GROUND PROPANE TANK



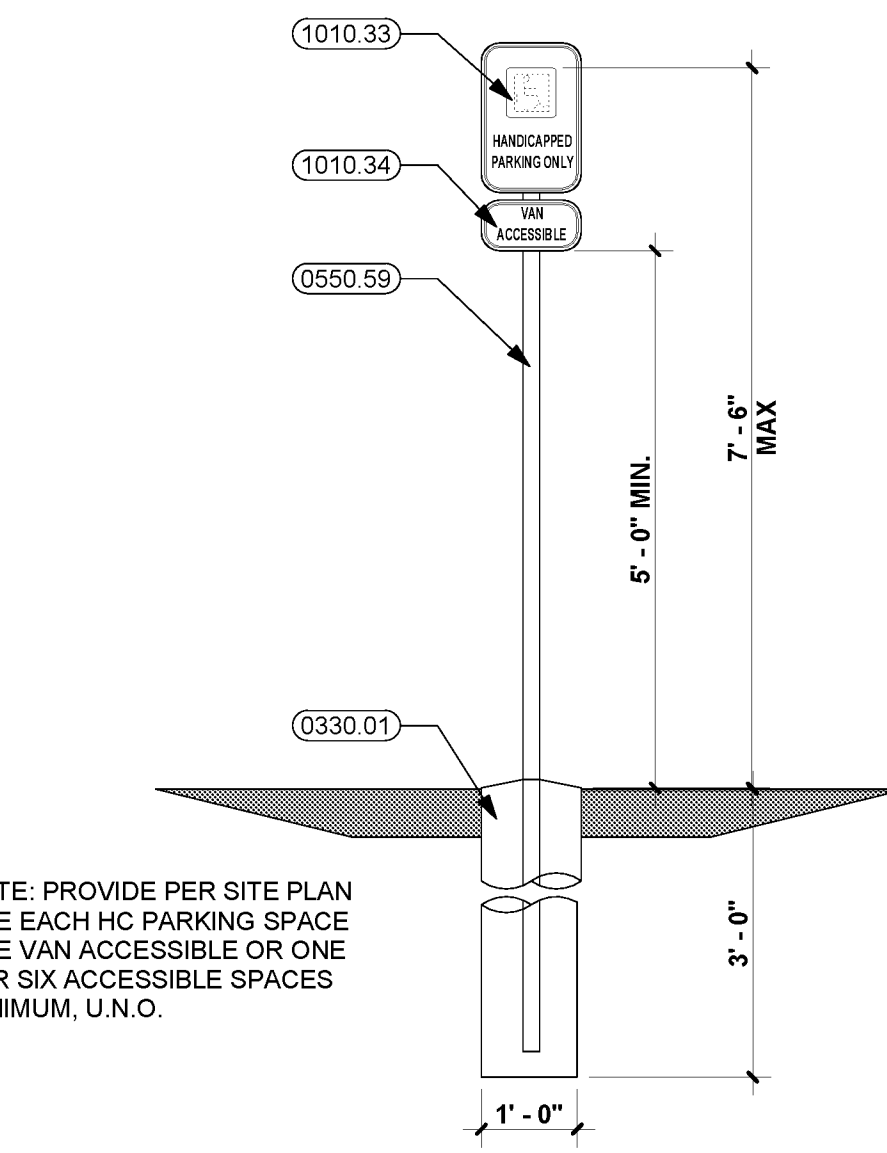
10 ENLARGED SITE PLAN
1/4" = 1'-0"



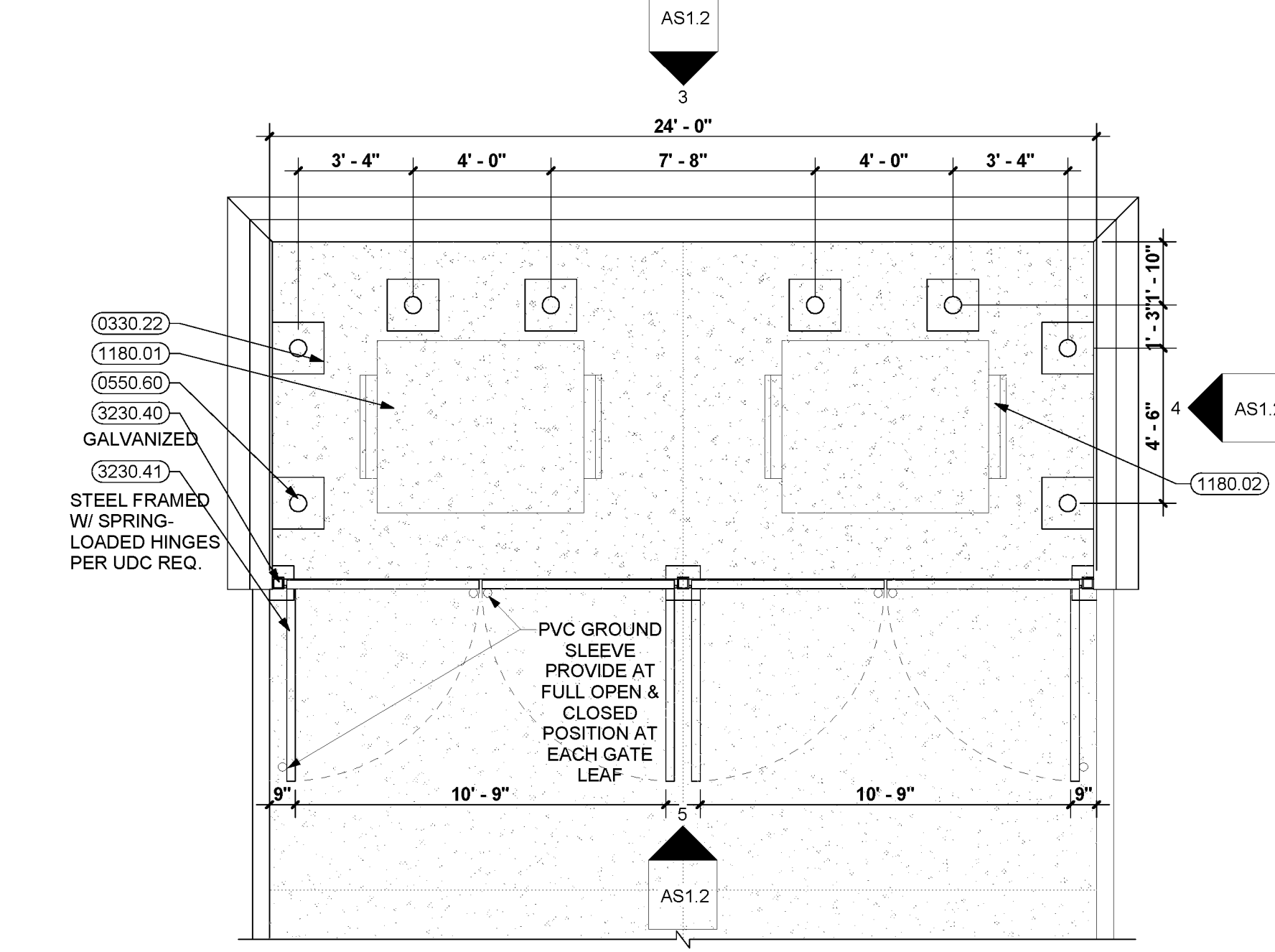
9 ENLARGED GATE PLAN - ALT. 8
1/4" = 1'-0"



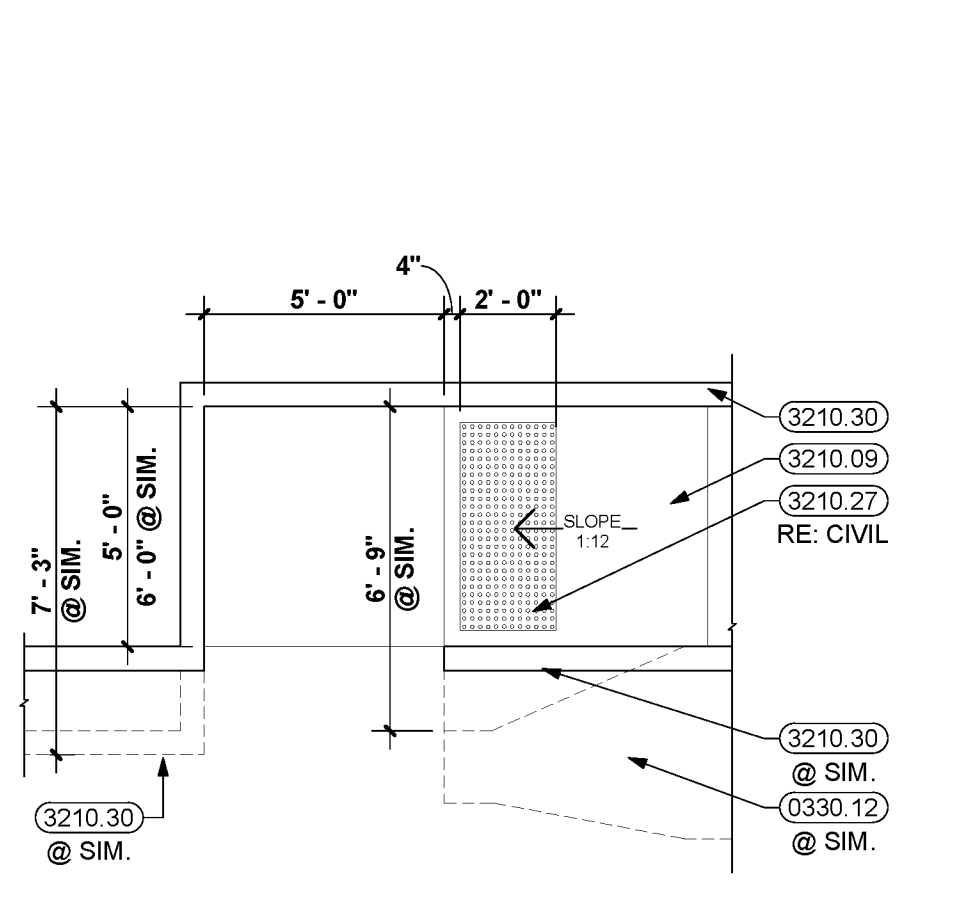
13 ENLARGED SITE PLAN
1/4" = 1'-0"



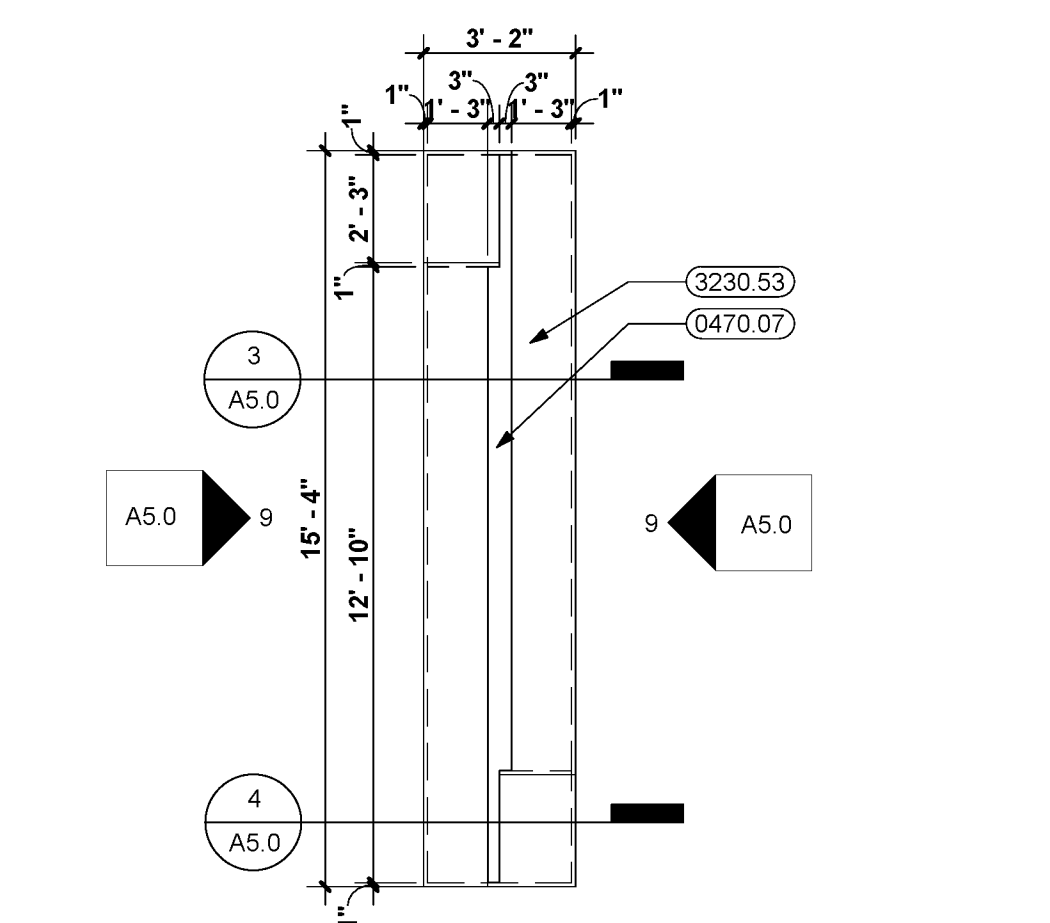
12 HC PARKING SIGNAGE
1/2" = 1'-0"



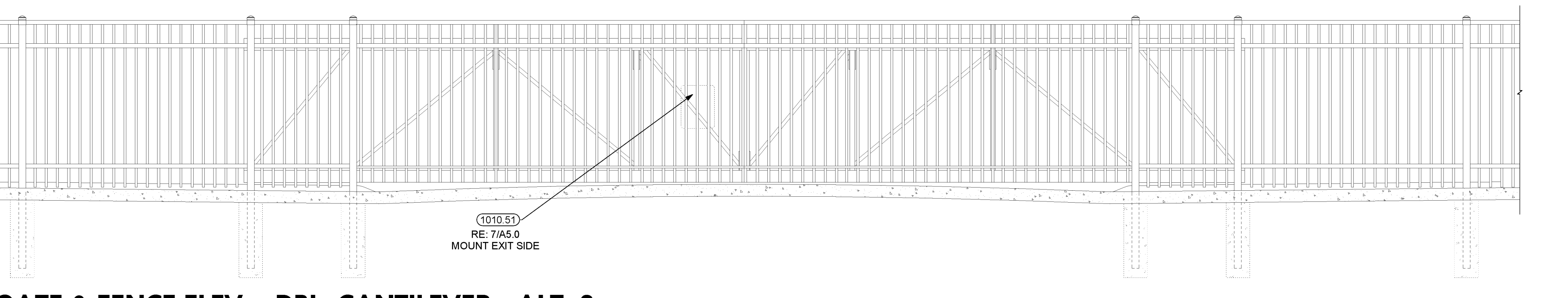
11 ENLARGED SITE PLAN
1/4" = 1'-0"



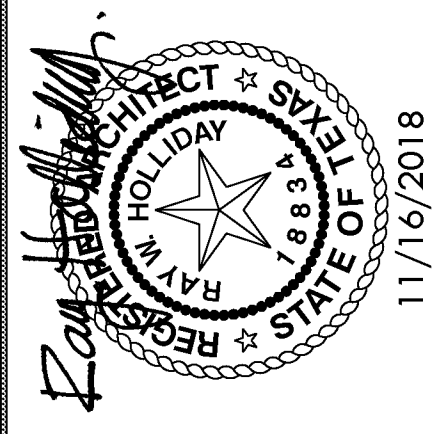
16 SITE RAMP PLAN
1/4" = 1'-0"



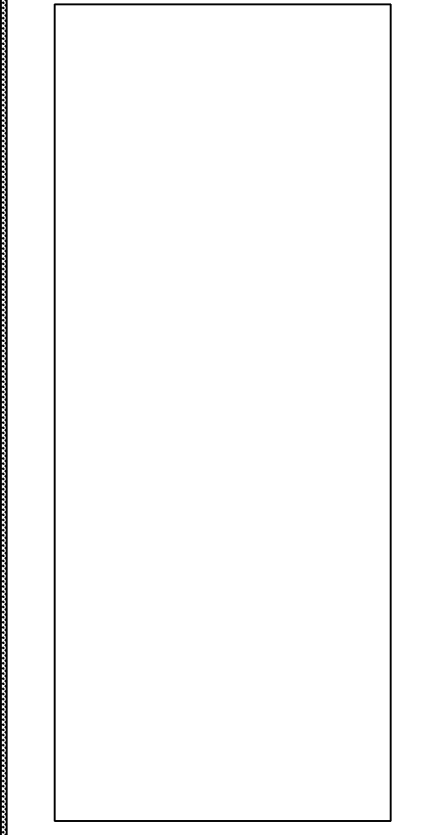
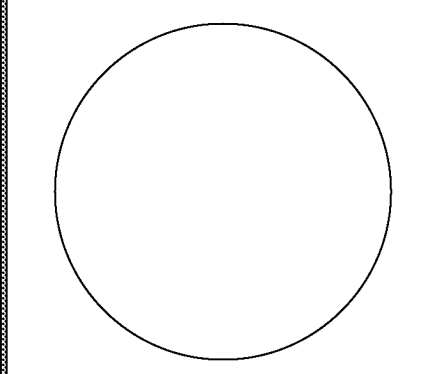
15 SIGN PLAN
1/4" = 1'-0"



14 GATE & FENCE ELEV. - DBL. CANTILEVER - ALT. 8
N.T.S.



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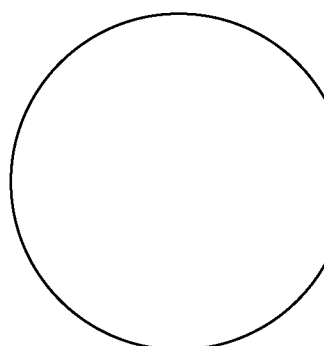


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BRW PROJECT NUMBER 217079.00

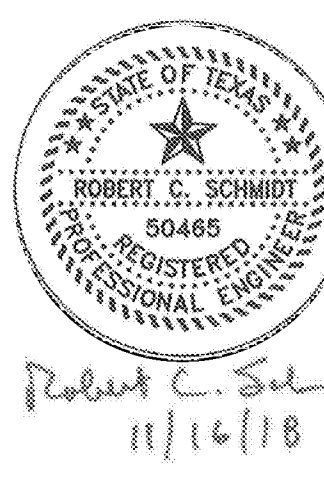
CITY OF GEORGETOWN
FIRE STATION No. 6
6700 R.M. 2338
GEORGETOWN, TX, 78633

NO.	REVISION	DATE

AS1.2
ARCHITECTURAL SITE DETAILS



BROWN REYNOLDS WATFORD ARCHITECTS
 2700 EARLE BENDER FERRY SOUTH
 SUITE 4000
 HOUSTON, TEXAS 77045
 281.494.1791
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STRAND ASSOCIATES
 STRAND JOB #
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CITY OF GEORGETOWN
 GEORGETOWN FIRE STATION No. 6
 6700 R.M. 2338
 GEORGETOWN, TX, 78626

NO.	REVISION	DATE

C2.0
 SITE GRADING PLAN

SITE GRADING LEGEND

- TP=XXX.XX - TOP OF PAVING
- TS=XXX.XX - TOP OF SIDEWALK
- FG=XXX.XX - FINISHED GRADE
- TC=XXX.XX - TOP OF GRADE INLET
- FL=XXX.XX - FLOW LINE
- 5" THICK PARKING AREA PAVEMENT (1 C6.1)
- 7" THICK DRIVEWAYS AND TRUCK TRAFFIC PAVEMENT (1 C6.1)
- 4" THICK SIDEWALK
- ACCESSIBLE ROUTE

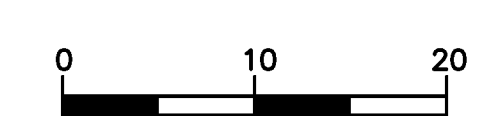
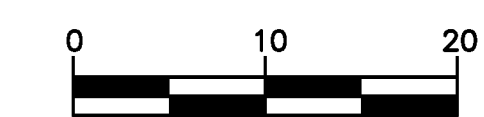
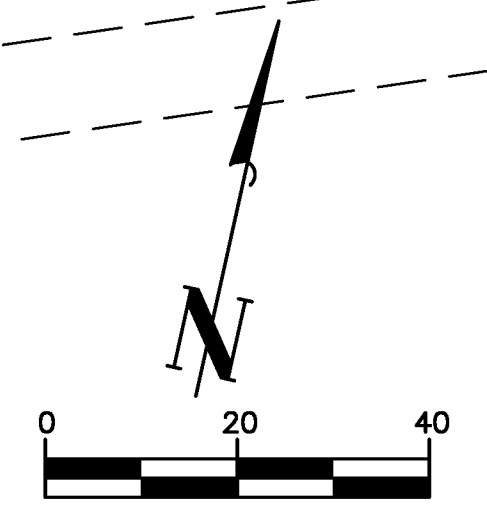
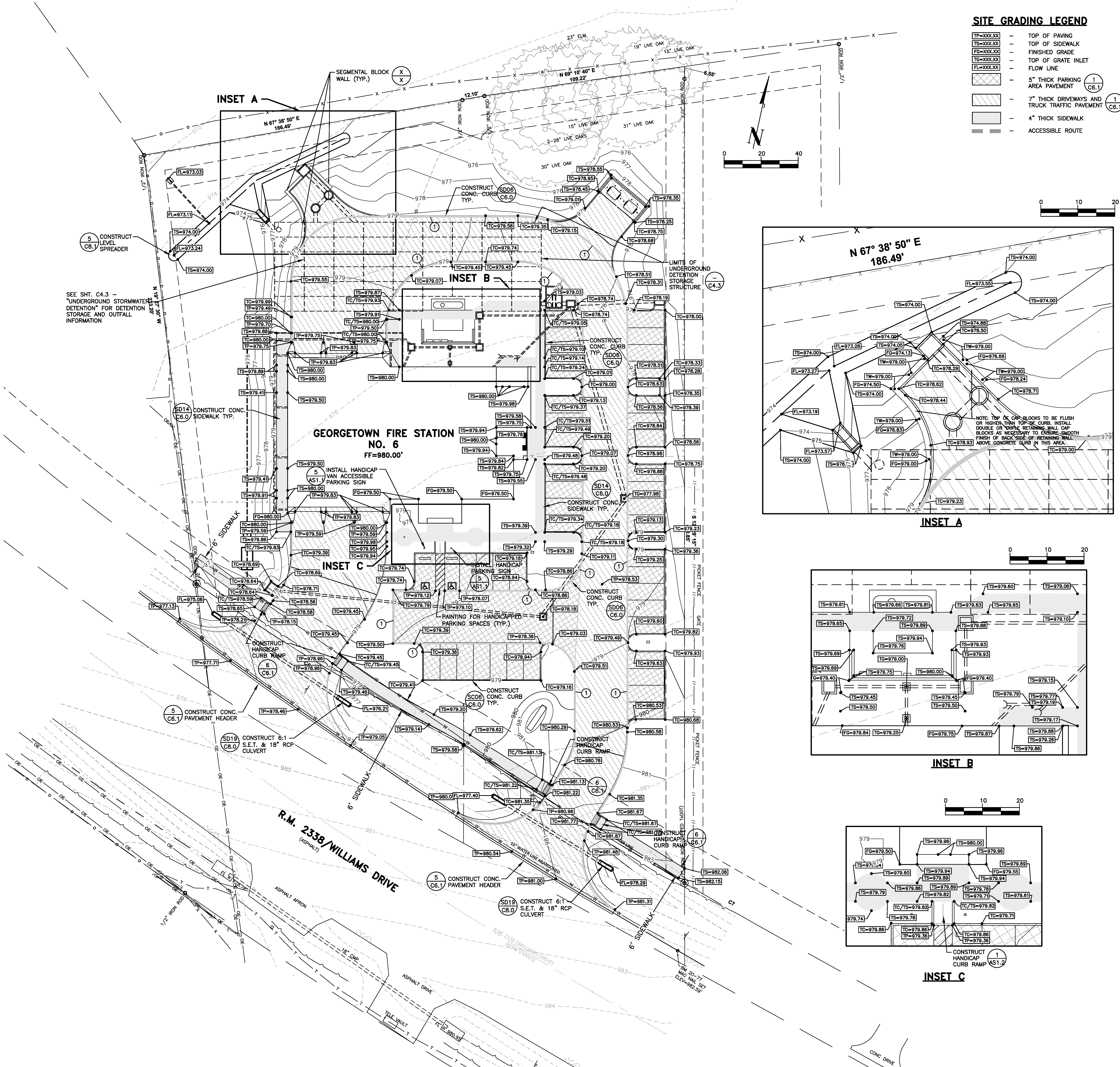
- General Notes
- These construction plans were prepared, sealed and dated by a Texas Licensed Professional Engineer. Therefore based on the engineer's concurrence of compliance, the construction plans for construction of the proposed project are hereby approved subject to the standard Construction Specifications and Details Manual and all other applicable City, State and Federal Requirements and Codes.
 - This project is subject to all City Standard Specifications and Details in effect at the time of submittal of the project of the City.
 - The site construction plans shall meet all requirements of the approved site plan.
 - Wastewater mains and service lines shall be SDR 26 PVC.
 - Wastewater mains shall be installed without horizontal or vertical bends.
 - Maximum distance between wastewater manholes is 500 feet.
 - Wastewater mains shall be low pressure air tested and mandrel tested by the contractor according to City of Georgetown and TCEQ requirements.
 - Wastewater manholes shall be vacuum tested and coated by the contractor according to City of Georgetown and TCEQ requirements.
 - Wastewater mains shall be camera tested by the contractor and submitted to the City on DVD format prior to paving the streets.
 - Private water system fire lines shall be tested by the contractor to 200 psi for 2 hours.
 - Private water system fire lines shall be ductile iron piping from the water main to the building sprinkler system, and 200 psi C900 PVC for all others.
 - Public water system mains shall be 150 psi C900 PVC and tested by the contractor at 150 psi for 2 hours.
 - All bends and changes in direction on water mains shall be restrained and thrust blocked.
 - Long fire hydrant leads shall be restrained.
 - All water lines are to be bacteria tested by the contractor according to the City standards and specifications.
 - Water and Sewer main crossings shall meet all requirements of the TCEQ and the City.
 - Flexible base material for public streets shall be TXDOT Type A Grade 1.
 - Hot mix asphaltic concrete pavement shall be Type D unless otherwise specified and shall be a minimum of 2 inches thick on public streets and roadways.
 - All sidewalk ramps are to be installed with the public infrastructure.
 - A maintenance bond is required to be submitted to the City prior to acceptance of the public improvements. This bond shall be established for 1 year in the amount of 25% of the cost of the public improvements and shall follow the City format.
 - Record drawings of the public improvements shall be submitted to the City by the design engineer prior to acceptance of the project. These drawings shall be on mylar or on TIFF or PDF (300p dpi). If a disk is submitted, a hard set shall be included with the disk.

CIVIL GENERAL NOTES:

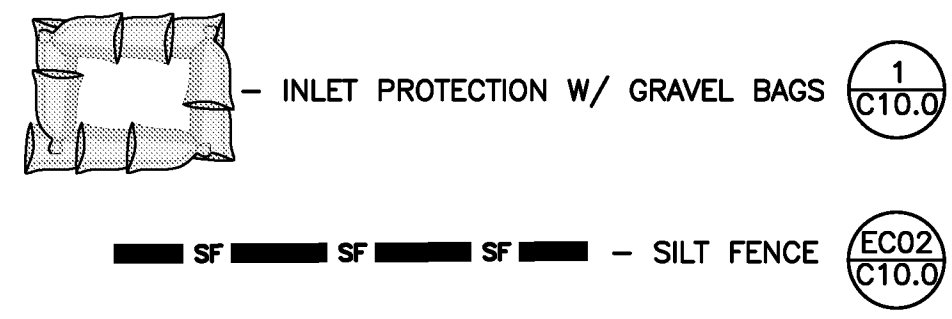
- IN ADDITION TO THE OTHER NOTIFICATIONS REQUIRED BY THE SPECIFICATIONS AND CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE CITY OF GEORGETOWN, THE ENGINEER AND THE ARCHITECT WHEN THE FOLLOWING PHASES OF CONSTRUCTION ARE ABOUT TO BEGIN:
 - 48 HOURS BEFORE ACTUAL WORK BEGINS, AND
 - 24 HOURS BEFORE ANY REQUIRED TESTING.
- CONTRACTOR SHALL HAVE ALL UNDERGROUND UTILITY LINES LOCATED AT LEAST 48 HOURS BEFORE DIGGING.
- ANY PROPERTY BOUNDARY MONUMENTS DISTURBED BY CONTRACTOR SHALL BE REPLACED TO THEIR ORIGINAL CONDITION AT CONTRACTOR'S EXPENSE.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF GEORGETOWN NOTES, SPECIFICATIONS, AND DETAILS.
- CONTRACTOR SHALL GRADE THE SITE TO THE PROPOSED SPOT ELEVATIONS AND CONTOURS SHOWN ON THE SITE GRADING PLAN.
- THE CONTRACTOR SHALL PERFORM ALL CLEARING AND GRUBBING OPERATIONS REQUIRED TO INSTALL THE IMPROVEMENTS COVERED UNDER THIS PROJECT.
- ANY EXISTING UTILITIES DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. ADDITIONALLY, THE CONTRACTOR MAY BE LIABLE FOR ADDITIONAL DAMAGES SUCH AS LOST GAS, WATER, ETC., OR LOST REVENUE FOR CABLE DAMAGE.
- EROSION CONTROL MEASURES SHALL CONFORM TO ALL STATE AND FEDERAL REQUIREMENTS, AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION OF THE PROJECT. THE EROSION CONTROL MEASURES SHOWN ON THE PLANS ARE THE MINIMUM REQUIRED. THE CONTRACTOR SHALL INSTALL ALL ADDITIONAL MEASURES TO MEET THE REGULATORY REQUIREMENTS.
- TOPSOIL SHALL BE STRIPPED IN EXCAVATION AREAS, THOSE AREAS BROUGHT TO FINAL GRADE (MINUS TOPSOIL DEPTH), AND THEN THE STRIPPED TOPSOIL SHALL BE PLACED TO FINISH GRADE.
- ANY UNPAVED AREA DISTURBED BY CONTRACTOR SHALL BE GRADED, SHAPED, AND GRASSED PER PROJECT SPECIFICATIONS.
- WATER SHALL BE APPLIED TO ALL GRASSED AREAS CONTINUOUSLY AS NEEDED TO ESTABLISH ACCEPTABLE GRASS COVERAGE.
- SIDEWALKS ADJACENT TO AREAS TO BE GRASSED SHALL BE FINISHED APPROXIMATELY 1 INCH BELOW FINISHED GRADE ELEVATION TO ALLOW FOR ESTABLISHMENT OF GRASS. ESTABLISHMENT OF GRASS SHALL NOT TRAP WATER ON THE SIDEWALK.
- REFERENCE ARCHITECTURAL SHEETS FOR EXISTING TREE PRESERVATION.
- REFERENCE LANDSCAPING SHEETS FOR LOCATION OF ALL PROPOSED LANDSCAPING IMPROVEMENTS. LANDSCAPING NOT SHOWN FOR CLARITY OF GRADING PLAN.
- CONTRACTOR SHALL PERFORM MINIMUM GRADING NEEDED AROUND HERITAGE TREES TO AVOID DISTURBING SOIL AROUND THOSE TREES.

FIRE LANE STRIPING NOTE:

- PROPOSED FIRE LANE STRIPING. REF: ARCHITECTURAL SHEET 5/AS1.1 FOR DETAIL.



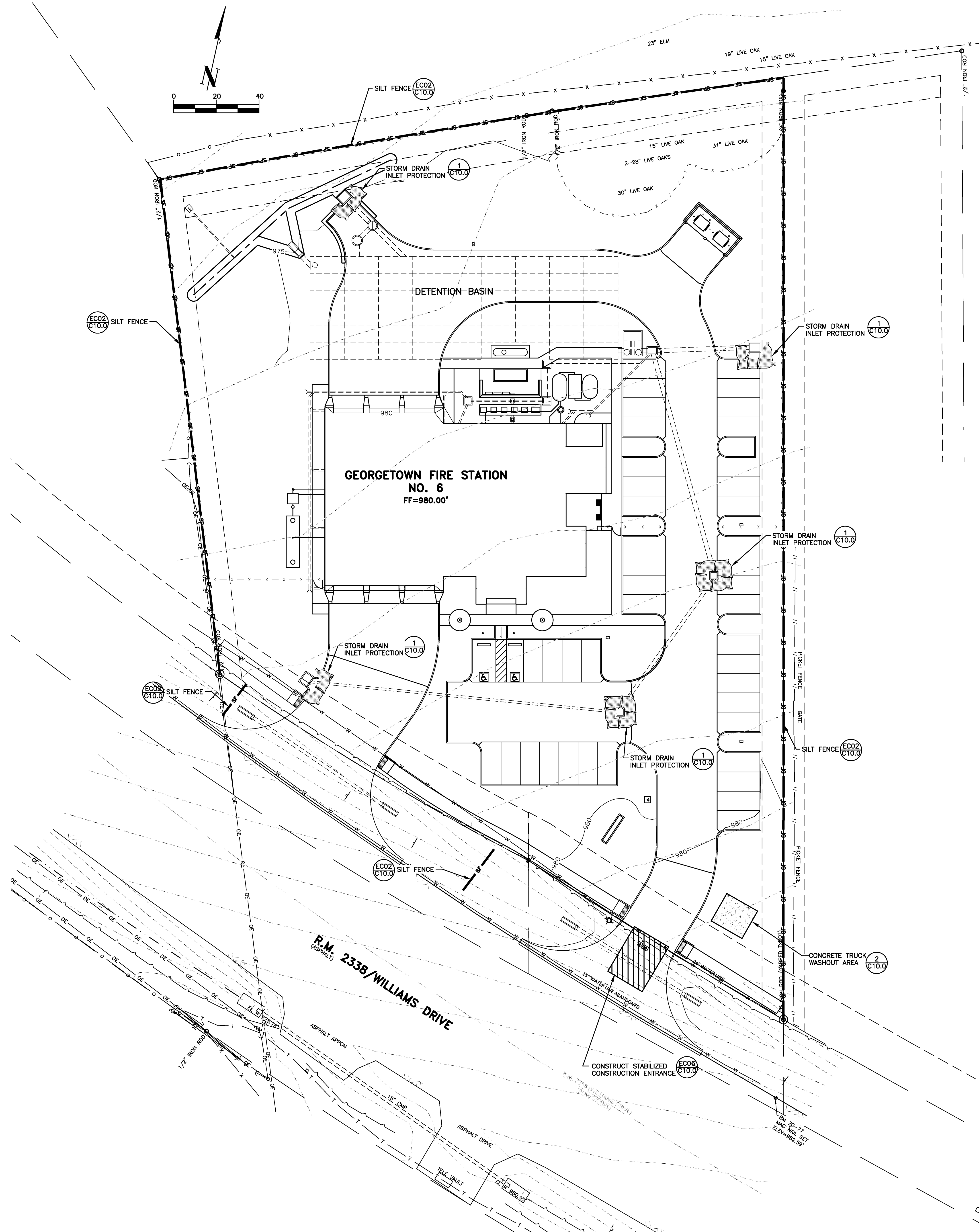
LEGEND



GENERAL NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL STORM WATER POLLUTION PREVENTION AND PLANNING IN ACCORDANCE WITH PROJECT TECHNICAL SPECIFICATION. PRIOR TO BEGINNING WORK, CONTRACTOR SHALL INSTALL SILT FENCING, EROSION CONTROL SOCKS AND CONSTRUCTION ENTRANCE AS SHOWN ON THIS SHEET. THE SILT FENCING SHALL BE ERECTED IN ADDITION TO ANY STRUCTURAL CONTROLS THAT MAY BE STIPULATED IN A STORM WATER POLLUTION PREVENTION PLAN (SW3P) THAT IS PREPARED BY CONTRACTOR. THE SILT FENCING SHALL BE MAINTAINED BY CONTRACTOR THROUGHOUT THE DURATION OF CONSTRUCTION AND THEN REMOVED BY CONTRACTOR AFTER FINAL STABILIZATION OF THE SITE.

2. CONTRACTOR SHALL INSTALL SAND BAGS AT ALL PROPOSED AREA INLETS AND CURB INLETS.



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ROBERT C. SCHMIDT
 50465
 PROFESSIONAL ENGINEER
 STATE OF TEXAS
 11/16/18

STRAND ASSOCIATES
 STRAND JOB # 3935.034

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Author 5/14/2018
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CITY OF GEORGETOWN
 GEORGETOWN FIRE STATION No. 6
 6700 R.M. 2338
 GEORGETOWN, TX, 78626

NO. _____
 REVISION _____
 DATE _____

C2.1

EROSION CONTROL PLAN

GENERAL NOTES:

- IN ADDITION TO THE OTHER NOTIFICATIONS REQUIRED BY THE SPECIFICATIONS AND CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE CITY OF GEORGETOWN AT (512)930-3648, AND STRAND ASSOCIATES, AT (979)836-7937, WHEN THE FOLLOWING PHASES OF CONSTRUCTION ARE ABOUT TO BEGIN:
 - 48 HOURS BEFORE ACTUAL WORK BEGINS, AND
 - 24 HOURS BEFORE ANY REQUIRED TESTING.
- CONTRACTOR SHALL HAVE ALL UNDERGROUND UTILITY LINES LOCATED AT LEAST 48 HOURS BEFORE DIGGING.
- CONTRACTOR SHALL HAVE SOLE RESPONSIBILITY TO PROVIDE FOR TRAFFIC CONTROL IN ACCORDANCE WITH THE LATEST EDITION OF THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. IN THE EVENT OF STREET CLOSURES, CONTRACTOR SHALL NOTIFY ALL EMERGENCY SERVICE PROVIDERS AT LEAST 24 HOURS PRIOR TO CLOSING STREETS TO TRAFFIC.
- ALL UNDERGROUND UTILITY LINES SHOWN ON THE PLANS ARE SHOWN FOR THE PURPOSE OF MAKING THE CONTRACTOR AWARE THAT THEY EXIST. NEITHER THE OWNER, NOR THE ENGINEER, GUARANTEES THE ACCURACY THEREOF. ALSO, THE LOCATIONS OF SOME EXISTING UTILITY LINES ARE NOT KNOWN AND THE CONTRACTOR WILL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES DURING CONSTRUCTION. THE FINAL ALIGNMENT OF THE PROPOSED LINES ARE SUBJECT TO MODIFICATION PENDING THE ESTABLISHMENT OF THE EXISTING UTILITY LOCATIONS.
- ALL EXISTING UTILITIES DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. ADDITIONALLY, THE CONTRACTOR MAY BE LIABLE FOR ADDITIONAL DAMAGES SUCH AS LOST GAS, WATER, ETC. OR LOST REVENUE FOR CABLE DAMAGE.
- ANY PROPERTY BOUNDARY MONUMENTS DISTURBED BY CONTRACTOR SHALL BE REPLACED TO THEIR ORIGINAL CONDITION AT CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL MAINTAIN EXISTING ACCESS TO ALL ADJACENT PROPERTIES DURING CONSTRUCTION.
- THE CONTRACTOR SHALL PERFORM ALL CLEARING AND GRUBBING OPERATIONS REQUIRED TO CONSTRUCT THE NEW IMPROVEMENTS ON THIS PROJECT.

- THE CONTRACTOR SHALL BE AWARE THAT OVERHEAD POWER AND TELEPHONE LINES MAY EXIST WITHIN THE PROJECT AREA. THE CONTRACTOR SHALL ENSURE THAT ALL EQUIPMENT MAINTAIN A MINIMUM SAFE CLEARANCE FROM ALL ENERGIZED POWER LINES.
- THE CONTRACTOR SHALL PROTECT EXISTING YARDS, DRIVES, CURBS, MAIL BOXES, SIGNS, CULVERTS, ETC. FROM DAMAGE DURING CONSTRUCTION. DAMAGE DONE TO THESE ITEMS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL MOVE AND REINSTALL SUCH MOVABLE OBJECTS AS MAIL BOXES, TRAFFIC CONTROL DEVICES AND STREET SIGNS AS NECESSARY FOR CONSTRUCTION.
- THE CONTRACTOR SHALL DISPOSE OF ALL SURPLUS MATERIALS FROM THE PROJECT IN A MANNER ACCEPTABLE TO THE OWNER AND THE ENGINEER AND IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.
- CONCRETE THRUST BLOCKS SHALL BE CONSTRUCTED AT ALL WATER BENDS IN ACCORDANCE WITH CITY OF GEORGETOWN CONSTRUCTION STANDARDS AND DETAILS. NO SEPARATE PAYMENT WILL BE MADE FOR THRUST BLOCKING AND THE COST OF SAME SHALL BE INCLUDED IN THE LUMP SUM PRICE FOR LINE WORK. CONTRACTOR SHALL EXERCISE CARE NOT TO GET CONCRETE USED FOR THRUST BLOCKING ON BOLTS AND GLANDS OF FITTINGS.
- ALL PVC WATER LINES SHALL BE INSTALLED WITH TRACE WIRE PER CITY OF GEORGETOWN TECHNICAL SPECIFICATIONS.
- ALL WORK TO MEET CITY OF GEORGETOWN REQUIREMENTS.
- CONTRACTOR IS RESPONSIBLE FOR ADJUSTING ALL VALVE BOXES, METER BOXES, FIRE HYDRANTS, MANHOLES & CLEANOUTS TO FINISHED GRADE.
- SEE ARCHITECTURAL SHEETS FOR EXISTING TREE PRESERVATION REQUIREMENTS.
- SEE LANDSCAPING SHEETS FOR LOCATION OF ALL PROPOSED LANDSCAPING IMPROVEMENTS.
- WATER PRESSURE AT FINISHED FLOOR ELEVATION IS 85.73 PSI. WATER PRESSURE IS NOT TO EXCEED 80 PSI PER CITY OF GEORGETOWN BUILDING CODE REQUIREMENTS. CONTRACTOR TO INSTALL WATER PRESSURE REDUCING VALVE (SEE NOTE 19 UNDER "WATER LEGEND" FOR TYPE AND INSTALLATION LOCATION).

WATER LEGEND

- REMOVE AND DISPOSE OF EXISTING METER BOXES. IF METERS ARE PRESENT, RETURN TO CITY OF GEORGETOWN. CAP EXISTING WATER SERVICE TAP ON 24" WATER LINE.
- INSTALL 6" TAPPING SLEEVE AND VALVE & VALVE BOX ON EX. 24" WATER LINE.
- INSTALL 4" WATER METER. WATER METER TO BE PROVIDED BY THE CITY OF GEORGETOWN.
- IRRIGATION TAP WILL NEED TO BE SIZED ONCE IRRIGATION SYSTEM IS DESIGNED BY A LICENSED IRRIGATION DESIGNER DURING BIDDING/CONSTRUCTION. OWNER TO PAY TAP FEE.
- 6" 45° BEND
- 6" CL. 150 C-900 PVC WATER LINE
- 2" SCH. 40 PVC WATER LINE
- 6"x2" TEE
- 6" 90° BEND
- INSTALL CUSTOMER CUT-OFF VALVE
- CONNECT TO 6" STUB-OUT FROM BUILDING (FIRE SUPPLY). REF. MEP PLANS FOR CONTINUATION OF LINE INSIDE BUILDING.
- CONNECT TO 2" STUB-OUT FROM BUILDING (DOMESTIC SUPPLY). REF. MEP PLANS FOR CONTINUATION OF LINE INSIDE BUILDING.
- EXISTING FIRE HYDRANT TO REMAIN.
- INSTALL REMOTE FIRE DEPARTMENT CONNECTION
- FIRE WATER LINE TO FIRE DEPARTMENT CONNECTION TO BE SIZED BY FIRE SPRINKLER DESIGNER
- STANDARDIZED OS&Y TO BE LOCATED AT THE BUILDING REF. MEP PLANS
- RPZ BACKFLOW PREVENTER TO BE INSTALLED IN BUILDING ON FIRE LINE REF. MEP PLANS
- IRRIGATION REDUCED PRESSURE ZONE BACKFLOW PREVENTER AND METER REF. LANDSCAPE PLANS
- INSTALL WATTS MODEL NO. LF223SHP WATER PRESSURE REDUCING VALVE OR APPROVED EQUAL AND OLDCASTLE VALVE BOX MODEL NO. 1324BCF WITH FLUSH SOLID COVER LID OR APPROVED EQUAL

ESTIMATED WATER USAGE:

THIS FIRE STATION WILL HOUSE SIX (6) EMPLOYEES FOR A 24 HOUR DURATION. WE HAVE CALCULATED (100) GALLONS PER DAY TIMES SIX (6) EMPLOYEES EQUALS (600) GPD.

CALCULATED WATER DEMAND = 58 GPM

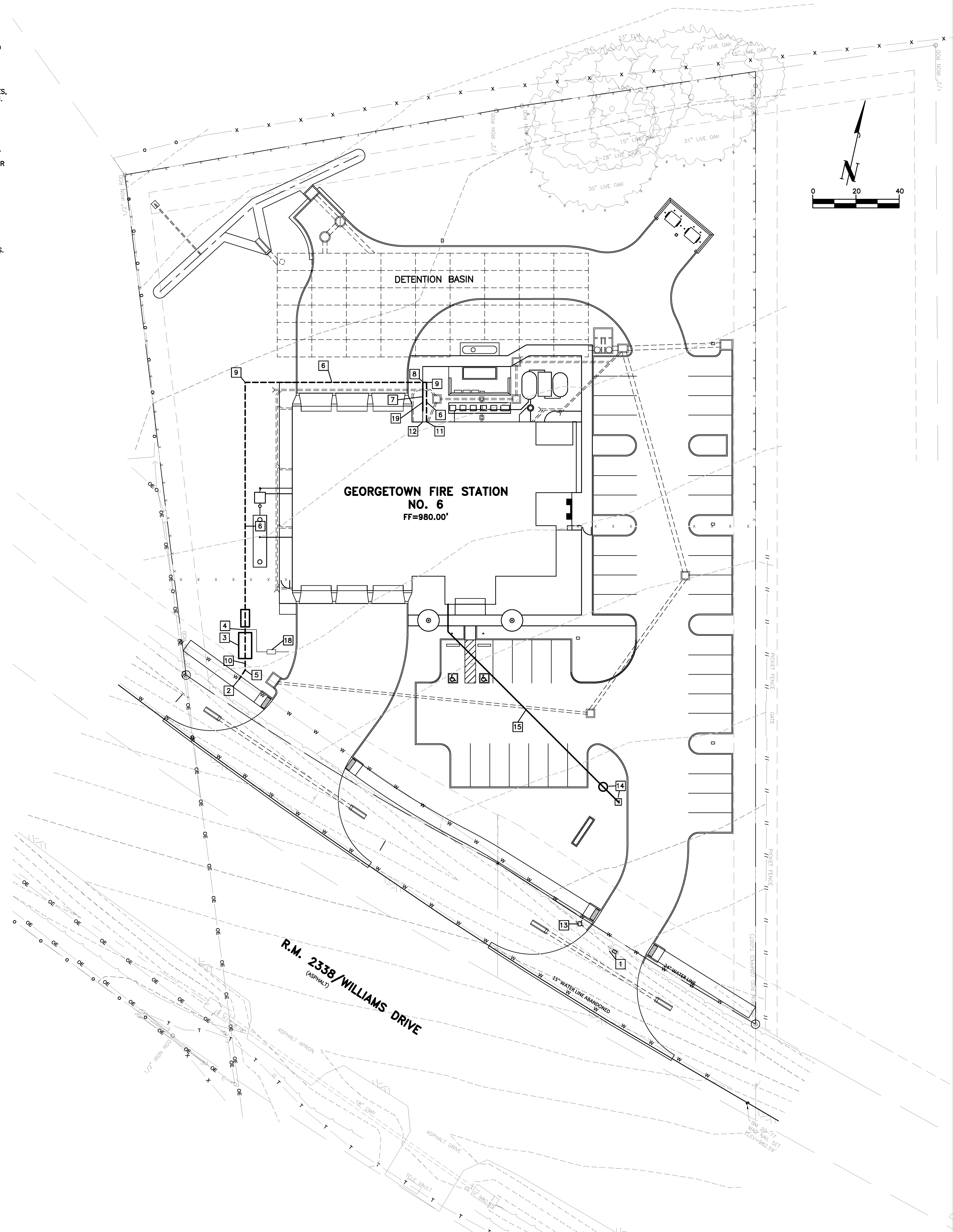
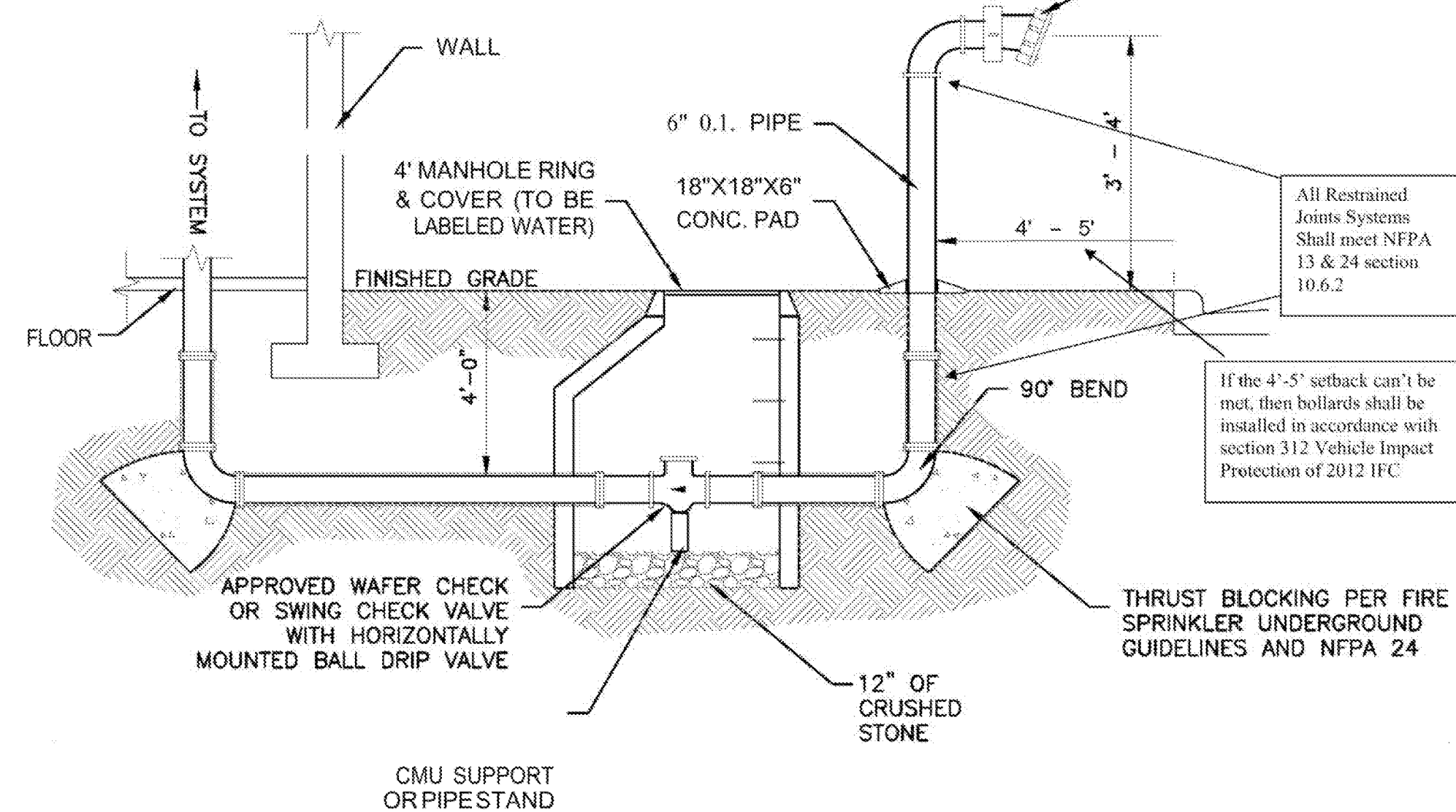
Per State Fire Marshall's Office an RME-U License is required in order to work on Private Fire Mains and their Appurtenances (NFPA 24)

All Fire Department Connections (FDCs) shall be marked as approved by the Fire Code Official. Two red street line reflectors (simmons model 88AB or similar) shall be installed six inches from centerline of the fire apparatus access roadway on the side closest to the FDC. Markers shall be parallel to the FDC having the reflective ends of the street markers facing the direction of traffic. 2012 IFC, 912.7

5" CONNECTION 30 DEGREE ELBOW W/ KNOX LOCKING CAP

All Restrainted Joints Systems Shall meet NFPA 13 & 24 section 10.6.2

If the 4'-5" setback can't be met, then bollards shall be installed in accordance with section 312 Vehicles Impact Protection of 2012 IFC



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Robert C. Schmidt
 11/16/18

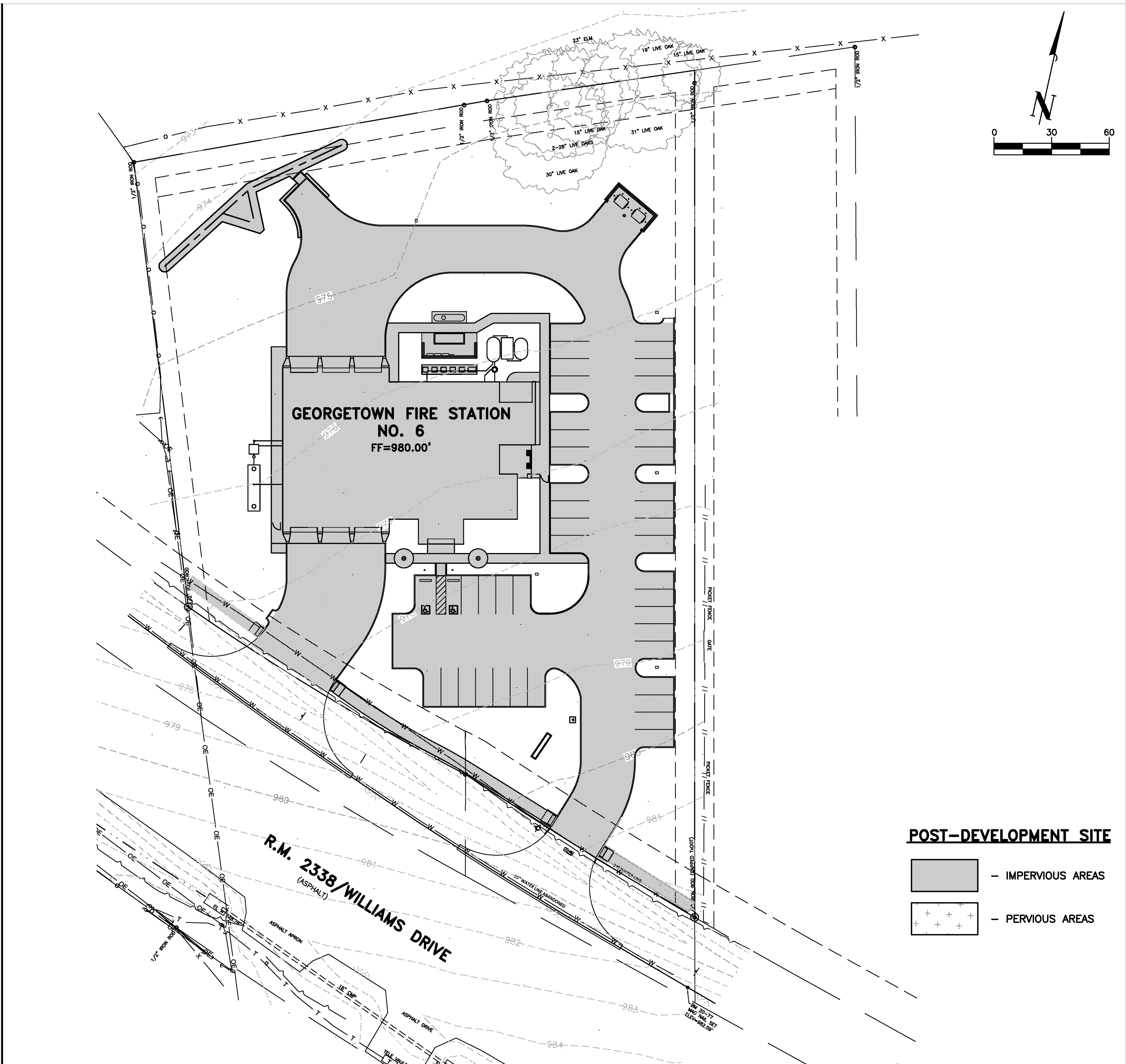
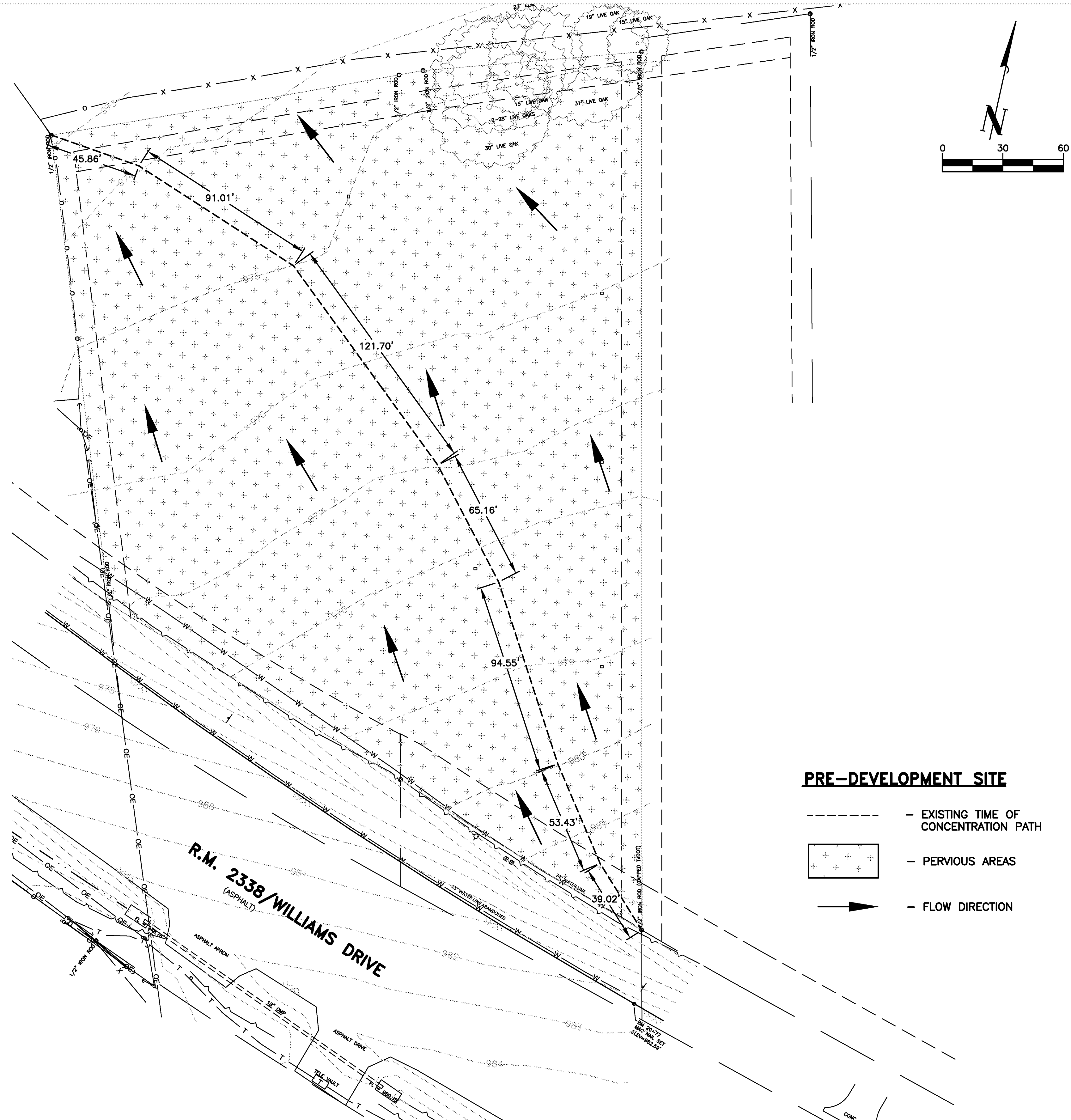
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CITY OF GEORGETOWN
 GEORGETOWN FIRE STATION No. 6
 6700 R.M. 2338
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NO.	REVISION	DATE

C3.0
 SITE UTILITY PLAN



PRE-DEVELOPMENT CONDITIONS

TYPE	AREA (ACRES)
PERVIOUS	2.120
IMPERVIOUS	0.000
TOTAL	2.120

POST-DEVELOPMENT CONDITIONS TO DETENTION

TYPE	AREA (ACRES)
PERVIOUS	0.316
IMPERVIOUS	1.058
TOTAL	1.374

BYPASS

TYPE	AREA (ACRES)
PERVIOUS	0.703
IMPERVIOUS	0.043
TOTAL	0.746

Pond Type III 24-hr 100 year Rainfall=9.50"
 Prepared by Strand Associates, Inc Printed 8/13/2018
 HydroCAD® 10.00-21 s/n 09696 © 2018 HydroCAD Software Solutions LLC Page 10

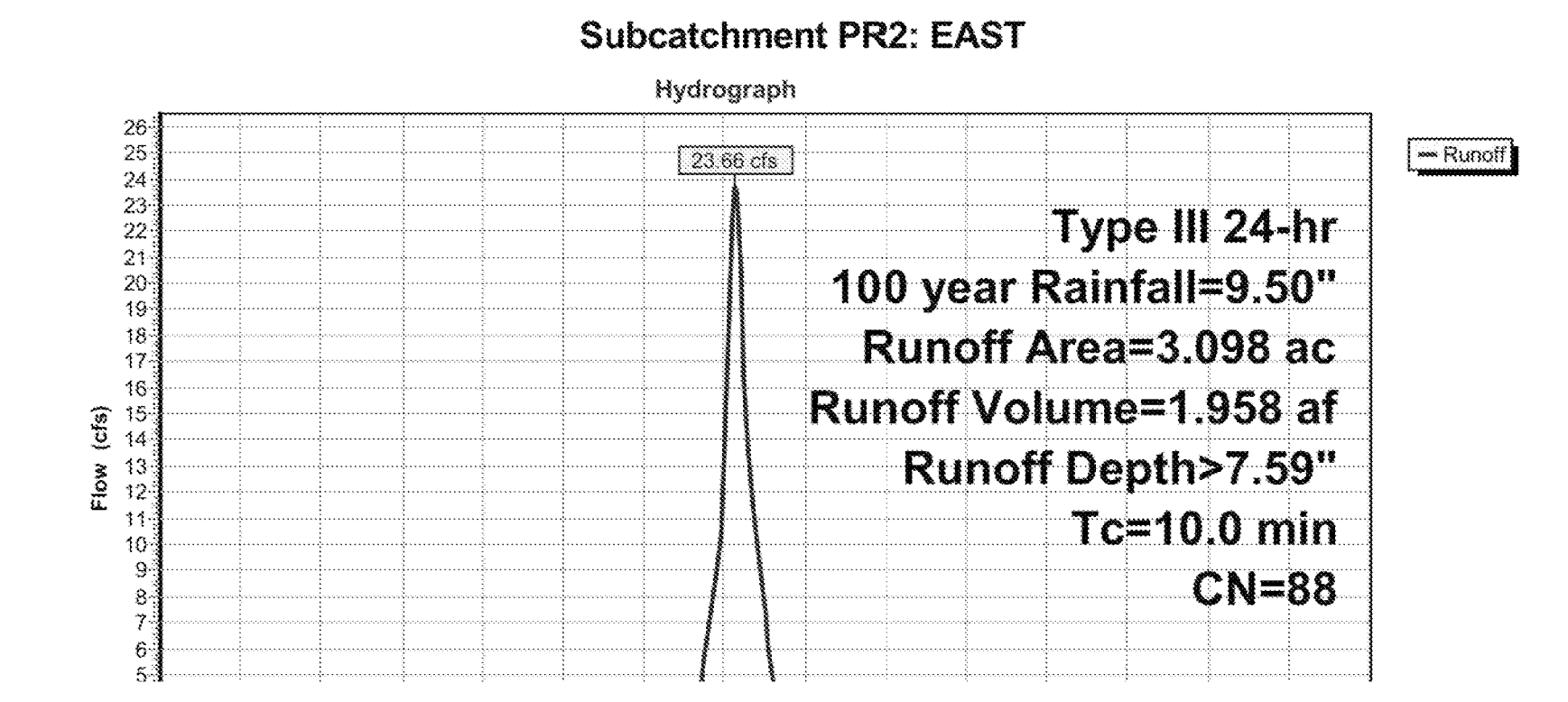
Summary for Subcatchment PR2: EAST

Runoff = 23.66 cfs @ 12.14 hrs, Volume= 1.958 af, Depth> 7.59"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
 Type III 24-hr 100 year Rainfall=9.50"

Area (ac)	CN	Description
1.823	98	Paved parking, HSG D
0.052	86	Woods/grass comb., Poor, HSG D
1.223	74	>75% Grass cover, Good, HSG C
3.098	88	Weighted Average
1.275		41.16% Pervious Area
1.823		58.84% Impervious Area

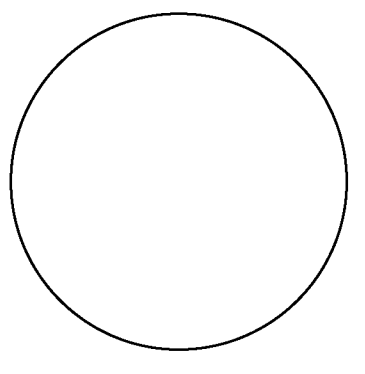
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0					Direct Entry,



POND

	EXISTING FLOW (CFS)	PROPOSED FLOW (CFS)	PROPOSED BYPASS FLOW (CFS)	TARGET FLOW (CFS)	ACTUAL RELEASED FLOW (CFS)	WATER SURFACE ELEVATION (FT)	STORAGE (AC-FT)
2 YEAR	2.01	3.41	1.52	0.49	0.79	975.02	0.122
10 YEAR	4.12	6.25	3.09	1.03	1.16	975.85	0.232
25 YEAR	5.26	7.75	3.92	1.34	1.34	976.33	0.292
100 YEAR	7.51	10.72	5.59	1.92	1.50	976.86	0.422

1. THE CITY OF GEORGETOWN'S DRAINAGE CRITERIA STATES THAT THE MINIMUM ORIFICE DIAMETER (OR DIMENSION FOR A RECTANGULAR ORIFICE) IS 12". DAVID MUNK WITH THE CITY OF GEORGETOWN WAS CONTACTED. HE STATED THAT A 6" DIAMETER ORIFICE WOULD BE ACCEPTED DUE TO OUR SITE CONDITIONS.
2. OVERALL DRAINAGE AREA = 2.12 AC.
 NEW IMPERVIOUS AREA = 1.06 AC.
 POST DEVELOPMENT IMPERVIOUS COVER = 50%
3. THE DETENTION FACILITY PASSES THE 100 YEAR STORM EVENT WITH 0.92' OF FREEBOARD.



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 PROFESSIONAL ENGINEER
 Robert C. Schmidt
 11/16/18

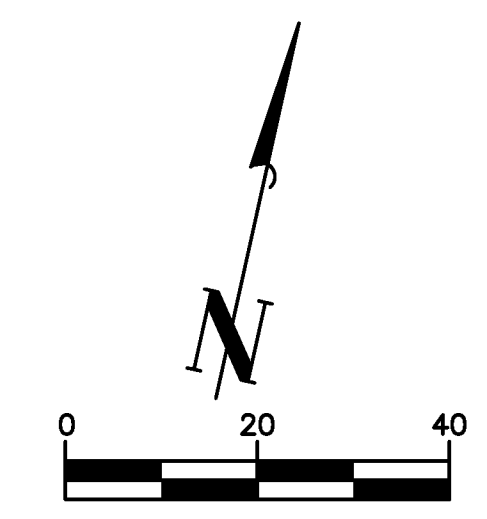
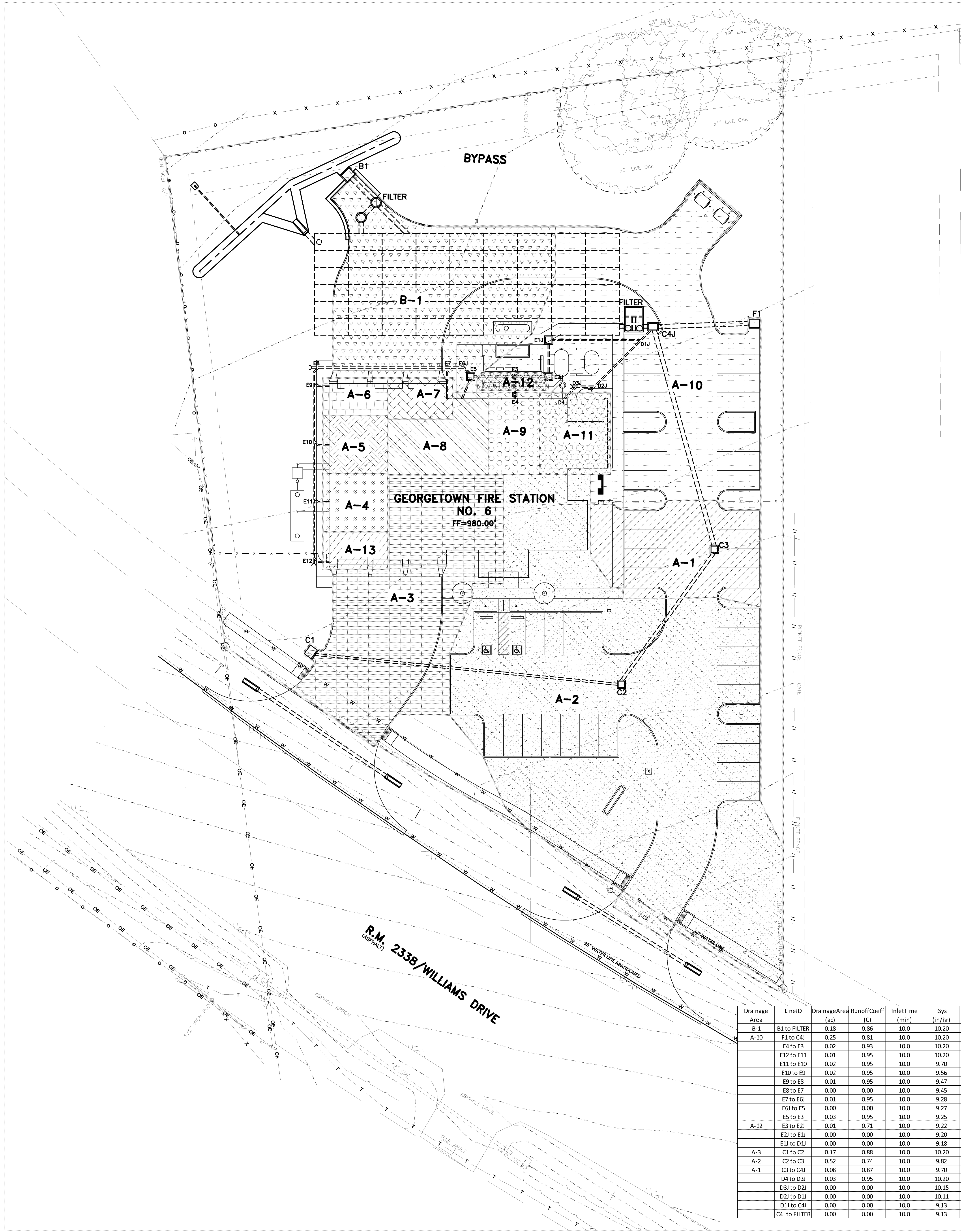
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CITY OF GEORGETOWN
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NO.	REVISION	DATE

C4.0
 SITE DRAINAGE AREA MAPS &
 DETENTION STORAGE
 CALCULATIONS



DRAINAGE AREA LEGEND	
	A-1
	A-2
	A-3
	A-4
	A-5
	A-6
	A-7
	A-8
	A-9
	A-10
	A-11
	A-12
	A-13
	B-1

100-YEAR STORM SEWER DESIGN SUMMARY

Drainage Area	LineID	Drainage Area (ac)	Runoff Coeff (C)	Inlet Time (min)	i _{sys} (in/hr)	Known Q (cfs)	QCaptured (cfs)	QBypass (cfs)	Total Runoff (cfs)	Line Length (ft)	Line Size (in)	n-value Pipe	Line Slope (%)	Flow Rate (cfs)	Capacity Full (cfs)	Vel Up (ft/s)	Energy Loss (ft)	Grnd/Rim Elev Up (ft)	Inlet Depth (ft)	HGL Up (ft)	HGL Dn (ft)	Invert Up (ft)	Invert Dn (ft)
B-1	B1 to FILTER	0.18	0.86	10.0	10.20	0.00	1.58	0.00	1.58	39.303	24	0.013	0.74	1.58	19.43	0.50	0.002	978.27	0.22	977.08	977.08	974.37	974.08
A-10	F1 to C4J	0.25	0.81	10.0	10.20	0.00	2.06	0.00	2.06	49.939	18	0.013	0.24	2.06	5.15	1.17	0.019	978.00	0.45	977.23	977.21	974.76	974.64
	E4 to E3	0.02	0.93	10.0	10.20	0.00	.....	.....	0.19	10.625	8	0.012	3.01	0.19	2.27	0.54	0.002	979.25	.....	978.57	978.57	976.00	975.68
	E12 to E11	0.01	0.95	10.0	10.20	0.00	.....	.....	0.10	28.238	8	0.012	0.25	0.10	0.65	0.28	0.002	979.75	.....	979.04	979.04	976.15	976.08
	E11 to E10	0.02	0.95	10.0	9.70	0.00	.....	.....	0.28	27.000	8	0.012	0.26	0.28	0.67	0.79	0.012	979.75	.....	979.04	979.02	976.08	976.01
	E10 to E9	0.02	0.95	10.0	9.56	0.00	.....	.....	0.45	27.998	8	0.012	0.25	0.45	0.65	1.30	0.034	979.75	.....	979.02	978.99	976.01	975.94
A-1	E9 to E8	0.01	0.95	10.0	9.47	0.00	.....	.....	0.54	8.603	8	0.012	0.23	0.54	0.63	1.55	0.015	979.75	.....	978.98	978.97	975.94	975.92
	E8 to E7	0.00	0.00	10.0	9.45	0.00	.....	.....	0.54	62.889	8	0.012	0.24	0.54	0.64	1.54	0.107	979.48	.....	978.93	978.82	975.92	975.77
	E7 to E6	0.01	0.95	10.0	9.28	0.00	.....	.....	0.62	7.961	8	0.012	0.25	0.62	0.66	1.77	0.018	979.75	.....	978.81	978.80	975.77	975.75
	E6 to E5	0.00	0.00	10.0	9.27	0.00	.....	.....	0.62	5.292	8	0.012	0.38	0.62	0.80	1.77	0.012	979.75	.....	978.76	978.75	975.75	975.73
	E5 to E3	0.03	0.95	10.0	9.25	0.00	.....	.....	0.88	20.831	8	0.012	0.24	0.88	0.64	2.52	0.094	979.75	.....	978.66	978.57	975.73	975.68
	E3 to E2J	0.01	0.71	10.0	9.22	0.00	0.07	0.00	1.11	15.998	8	0.012	0.25	1.11	0.65	3.19	0.116	979.00	0.05	978.33	978.22	975.68	975.64
	E2J to E1J	0.00	0.00	10.0	9.20	0.00	.....	.....	1.11	17.169	8	0.012	0.23	1.11	0.63	3.18	0.124	979.52	.....	978.06	977.93	975.64	975.60
	E1J to D1J	0.00	0.00	10.0	9.18	0.00	.....	.....	1.11	41.616	8	0.012	0.24	1.11	0.64	3.18	0.299	979.80	.....	977.78	977.48	975.60	975.50
	C1 to C2	0.17	0.88	10.0	10.20	0.00	1.53	0.00	1.53	147.511	12	0.012	0.25	1.53	1.93	1.94	0.231	978.66	0.41	978.37	978.14	975.98	975.61
	A-2	C2 to C3	0.52	0.74	10.0	9.82	0.00	3.92	0.00	5.25	77.354	18	0.013	0.26	5.25	5.34	2.97	0.193	978.18	0.30	977.95	977.76	975.11	974.91
A-1	C3 to C4J	0.08	0.87	10.0	9.70	0.00	0.71	0.00	5.86	109.221	18	0.013	0.25	5.86	5.22	3.32	0.340	977.98	0.12	977.55	977.21	974.91	974.64
	D4 to D3J	0.03	0.95	10.0	10.20	0.00	.....	.....	0.29	8.191	8	0.012	4.52	0.29	2.78	1.01	0.004	979.75	.....	977.51	977.51	977.00	976.63
	D3J to D2J	0.00	0.00	10.0	10.15	0.00	.....	.....	0.29	6.486	8	0.012	4.62	0.29	2.81	0.83	0.003	979.75	.....	977.51	977.50	976.63	976.33
	D2J to D1J	0.00	0.00	10.0	10.11	0.00	.....	.....	0.29	31.116	8	0.012	4.56	0.29	2.80	0.83	0.015	979.75	.....	977.49	977.48	976.33	974.91
	D1J to C4J	0.00	0.00	10.0	9.13	0.00	.....	.....	1.36	8.158	8	0.012	0.37	1.36	0.79	3.90	0.089	978.44	.....	977.30	977.21	975.50	975.47
A-1	C4J to FILTER	0.00	0.00	10.0	9.13	0.00	8.72	7.084	24	0.013	0.28	8.72	12.02	2.78	0.011	978.84	977.09	977.08	974.64	974.62

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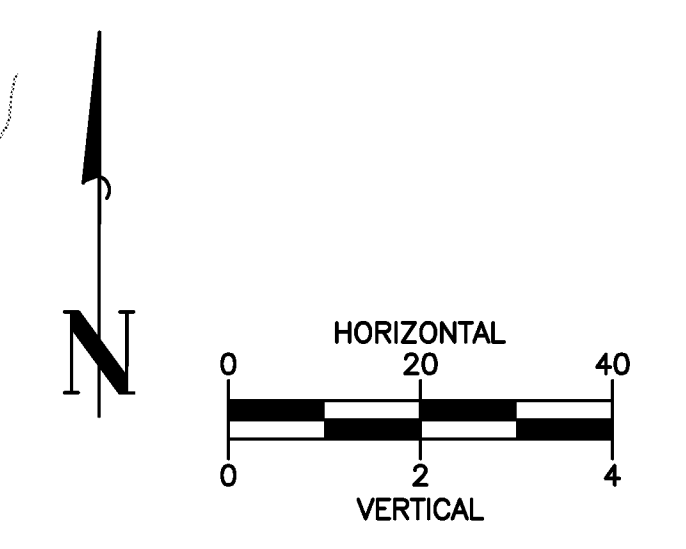
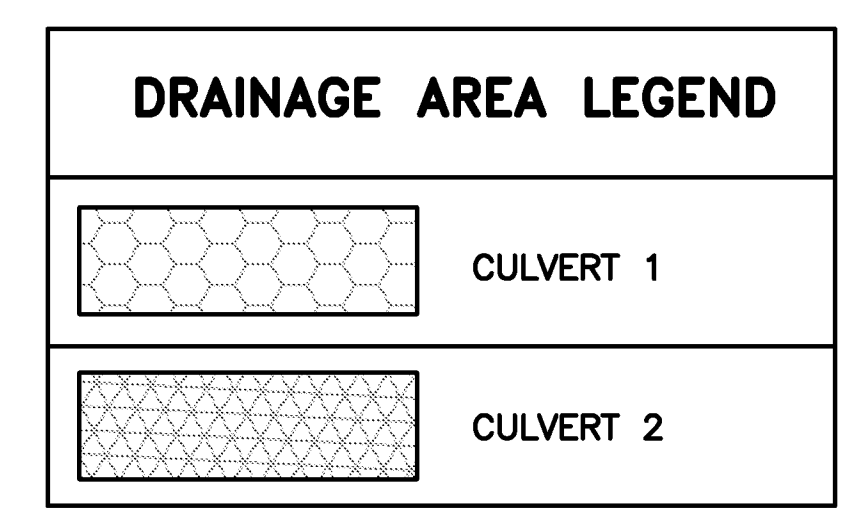
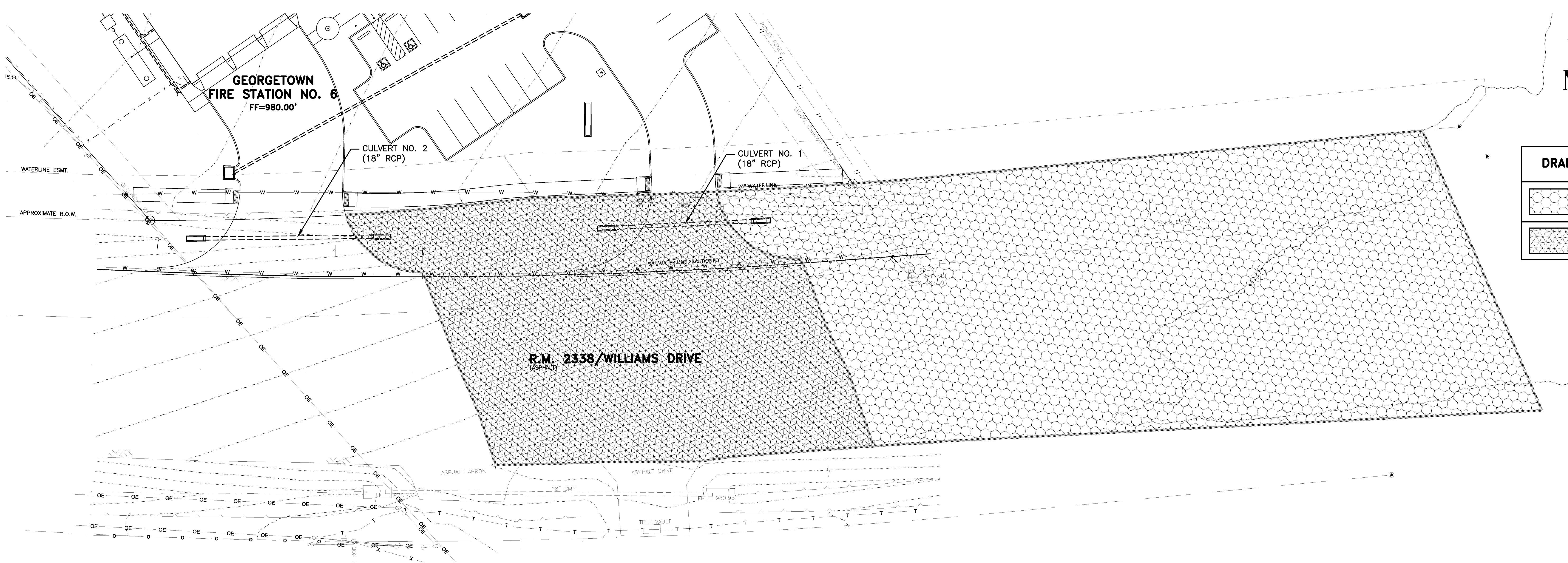
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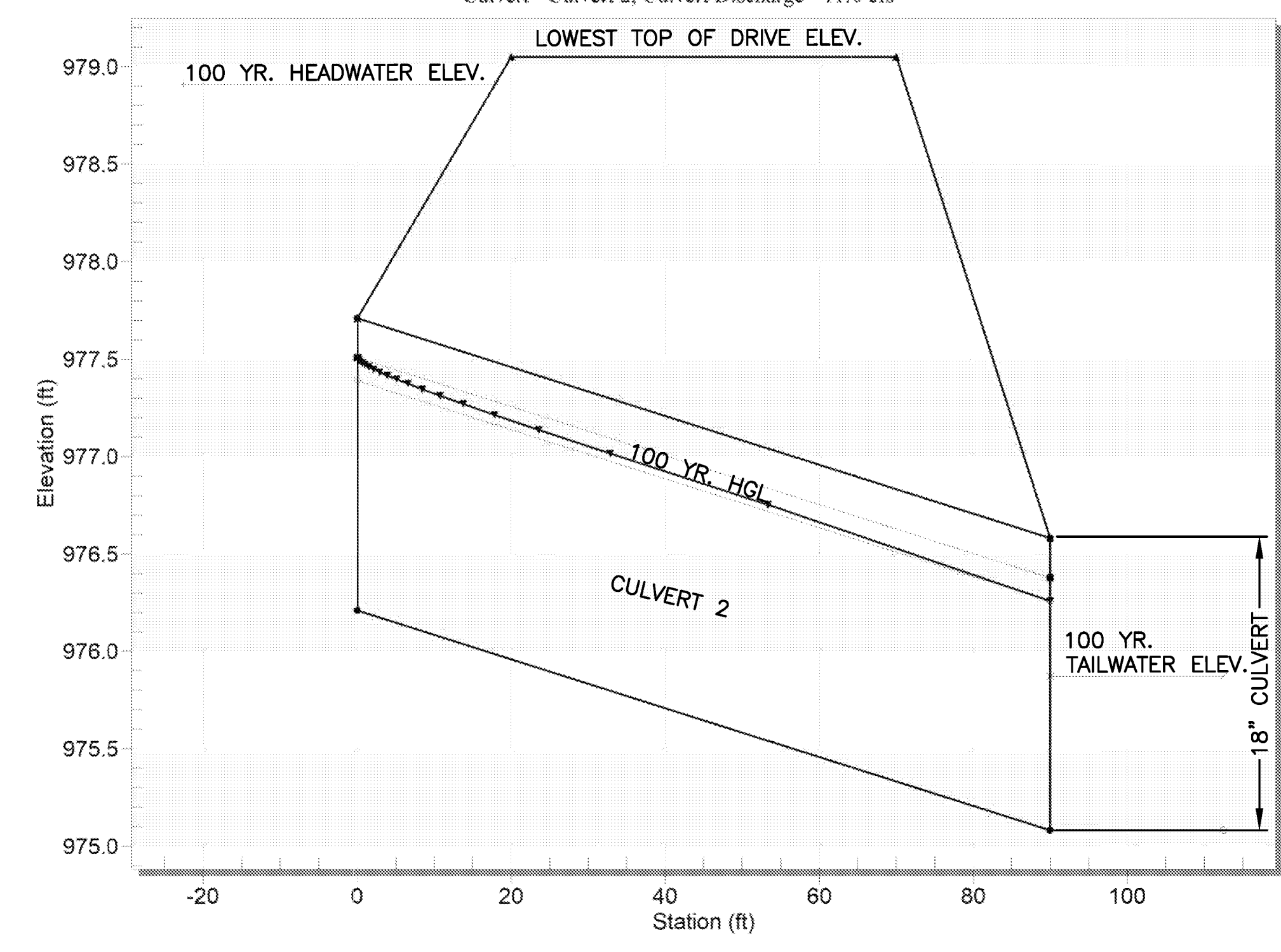
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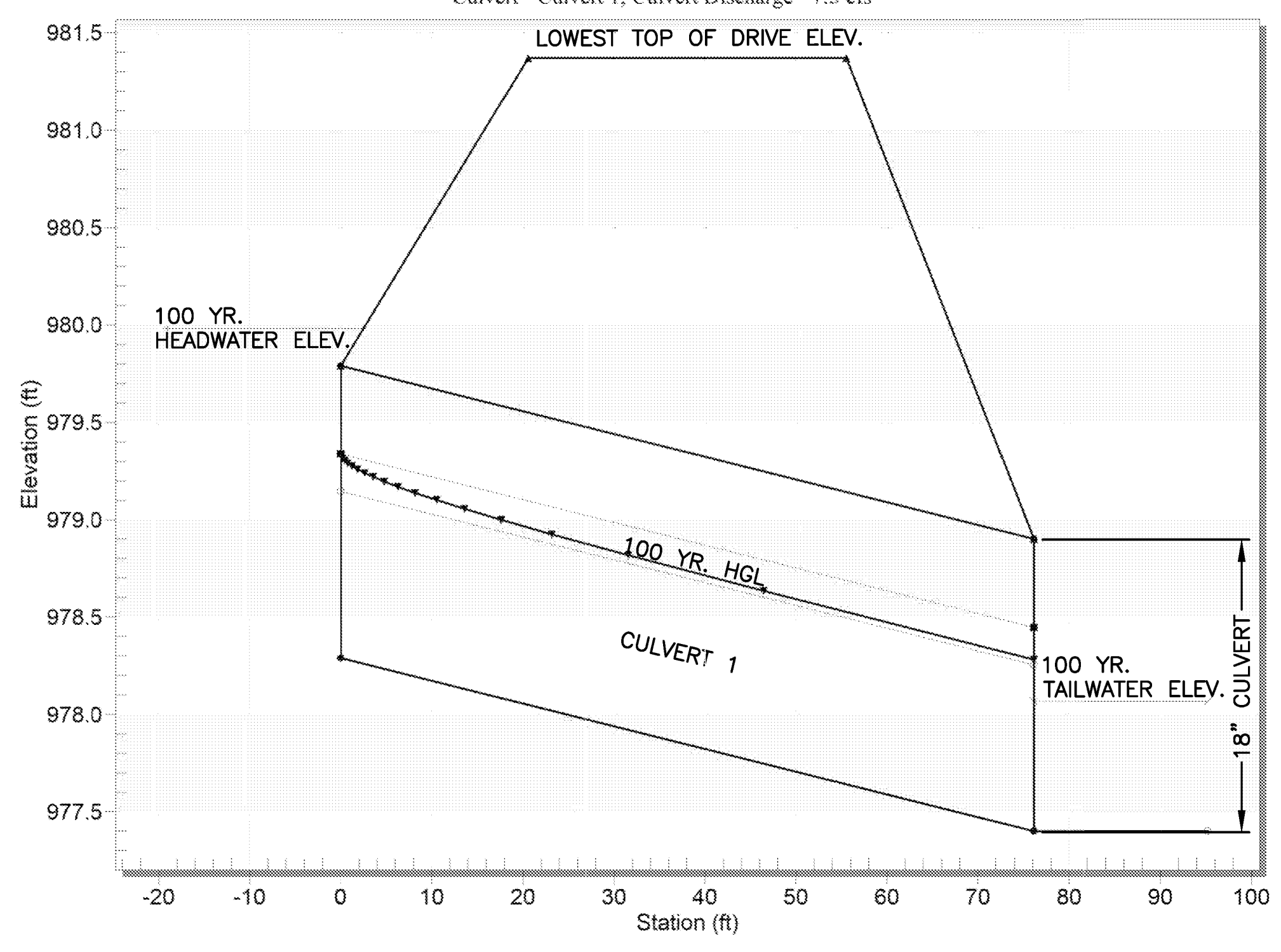
STORM SEWER MAP & SIZING CALCULATIONS



Crossing - Crossing 2, Design Discharge - 11.6 cfs
Culvert - Culvert 2, Culvert Discharge - 11.6 cfs



Crossing - Crossing 1, Design Discharge - 7.3 cfs
Culvert - Culvert 1, Culvert Discharge - 7.3 cfs



Culvert Design Type III 24-hr 100 Year Rainfall=9.25"
Prepared by Strand Associates, Inc. Printed 10/16/2018
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Summary for Subcatchment 1S: Drainage Area

[49] Hint: Tc<2dt may require smaller dt

Runoff = 7.34 cfs @ 12.05 hrs, Volume= 0.510 af, Depth> 7.89"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100 Year Rainfall=9.25"

Area (ac)	CN	Description
0.776	93	Paved roads w/open ditches, 50% imp, HSG D
0.388		50.00% Pervious Area
0.388		50.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.6	164	0.0360	1.73		Sheet Flow, n= 0.013 P2= 3.40"
2.1	204	0.0117	1.62		Shallow Concentrated Flow, Grassed Waterway Kv= 15.0 fps
3.7	368	Total			

Culvert Design Type III 24-hr 100 Year Rainfall=9.25"
Prepared by Strand Associates, Inc. Printed 10/16/2018
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Summary for Subcatchment 3S: Drainage Area 2

[49] Hint: Tc<2dt may require smaller dt

Runoff = 4.27 cfs @ 12.03 hrs, Volume= 0.290 af, Depth> 7.89"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 100 Year Rainfall=9.25"

Area (ac)	CN	Description
0.441	93	Paved roads w/open ditches, 50% imp, HSG D
0.220		50.00% Pervious Area
0.220		50.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.4	150	0.0300	1.81		Sheet Flow, Smooth surfaces n= 0.011 P2= 3.40"
0.7	75	0.0130	1.71		Shallow Concentrated Flow, Grassed Waterway Kv= 15.0 fps
2.1	225	Total			

DRAINAGE AREA 1 = 7.34 CFS
DRAINAGE AREA 2 = 4.27 CFS
TOTAL CFS = 11.61 CFS

HY-8 100 YR. Analysis - Culvert Summary Table: Culvert 2

Total Discharge (cfs)	Culvert Discharge (cfs)	Headwater Elevation (ft)	Inlet Control Length (ft)	Outlet Control Length (ft)	Flow Type	Normal Depth (ft)	Critical Depth (ft)	Outlet Depth (ft)	Tailwater Depth (ft)	Outlet Velocity (ft/s)	Tailwater Velocity (ft/s)
0.00	0.00	979.21	0.000	0.000	0-4F	0.000	0.000	0.000	0.000	0.000	0.000
0.50	1.50	979.64	0.026	0.0	1-S2h	0.353	0.454	0.364	0.367	4.374	1.603
3.00	3.00	977.15	0.94	0.0	1-S2h	0.903	0.958	0.913	0.476	5.259	2.150
4.50	4.50	977.42	1.209	0.0	1-S2h	0.926	0.912	0.947	0.554	6.962	2.360
6.00	6.00	977.67	1.456	0.372	1-S2h	0.738	0.942	0.733	0.617	6.705	2.967
7.50	7.50	977.69	1.72	0.803	5-S2h	0.640	1.067	0.871	0.67	6.826	2.704
9.00	9.00	979.24	2.027	1.459	5-S2h	0.956	1.125	0.985	0.719	7.059	2.630
13.50	10.50	979.60	2.369	1.959	5-S2h	0.674	1.244	1.074	0.76	7.535	2.941
11.61	11.61	979.91	2.667	2.367	5-S2h	0.718	1.267	1.173	0.79	7.599	3.015
13.50	12.29	979.11	2.900	2.906	7-MS1	0.500	1.325	1.325	0.837	7.441	3.132
15.00	12.42	979.16	2.945	2.946	7-MS1	0.500	1.320	1.320	0.820	7.406	3.210

*TAILWATER ELEVATION CALCULATED BY USING DITCH SECTION AT MOST DOWNSTREAM CULVERT OUTLET LOCATION

HY-8 100 YR. Analysis - Culvert Summary Table: Culvert 1

Total Discharge (cfs)	Culvert Discharge (cfs)	Headwater Elevation (ft)	Inlet Control Length (ft)	Outlet Control Length (ft)	Flow Type	Normal Depth (ft)	Critical Depth (ft)	Outlet Depth (ft)	Tailwater Depth (ft)	Outlet Velocity (ft/s)	Tailwater Velocity (ft/s)
0.00	0.00	979.20	0.000	0.000	0-4F	0.000	0.000	0.000	0.000	0.000	0.000
0.00	1.00	978.50	0.506	0.0	1-S2h	0.200	0.269	0.202	0.316	3.056	1.633
2.00	2.00	979.02	0.731	0.0	1-S2h	0.414	0.550	0.414	0.409	4.865	1.944
3.00	3.00	979.23	0.942	0.0	1-S2h	0.512	0.658	0.512	0.427	5.438	2.101
4.00	4.00	979.41	1.125	0.104	1-S2h	0.598	0.705	0.593	0.53	5.881	2.312
5.00	5.00	979.56	1.282	0.324	1-S2h	0.678	0.866	0.679	0.577	6.234	2.444
6.00	6.00	979.75	1.457	0.567	1-S2h	0.754	0.942	0.754	0.618	6.528	2.553
7.00	7.00	979.92	1.630	0.833	5-S2h	0.829	1.021	0.884	0.655	6.921	2.659
7.34	7.34	979.95	1.691	0.0	5-S2h	0.854	1.045	0.901	0.665	6.959	2.660
9.00	9.00	980.32	2.027	1.599	5-S2h	0.961	1.156	0.961	0.719	7.156	2.691
13.50	10.00	980.55	2.202	1.991	5-S2h	1.063	1.218	1.066	0.748	7.030	2.907

*TAILWATER ELEVATION CALCULATED BY USING DITCH SECTION AT MOST DOWNSTREAM CULVERT OUTLET LOCATION

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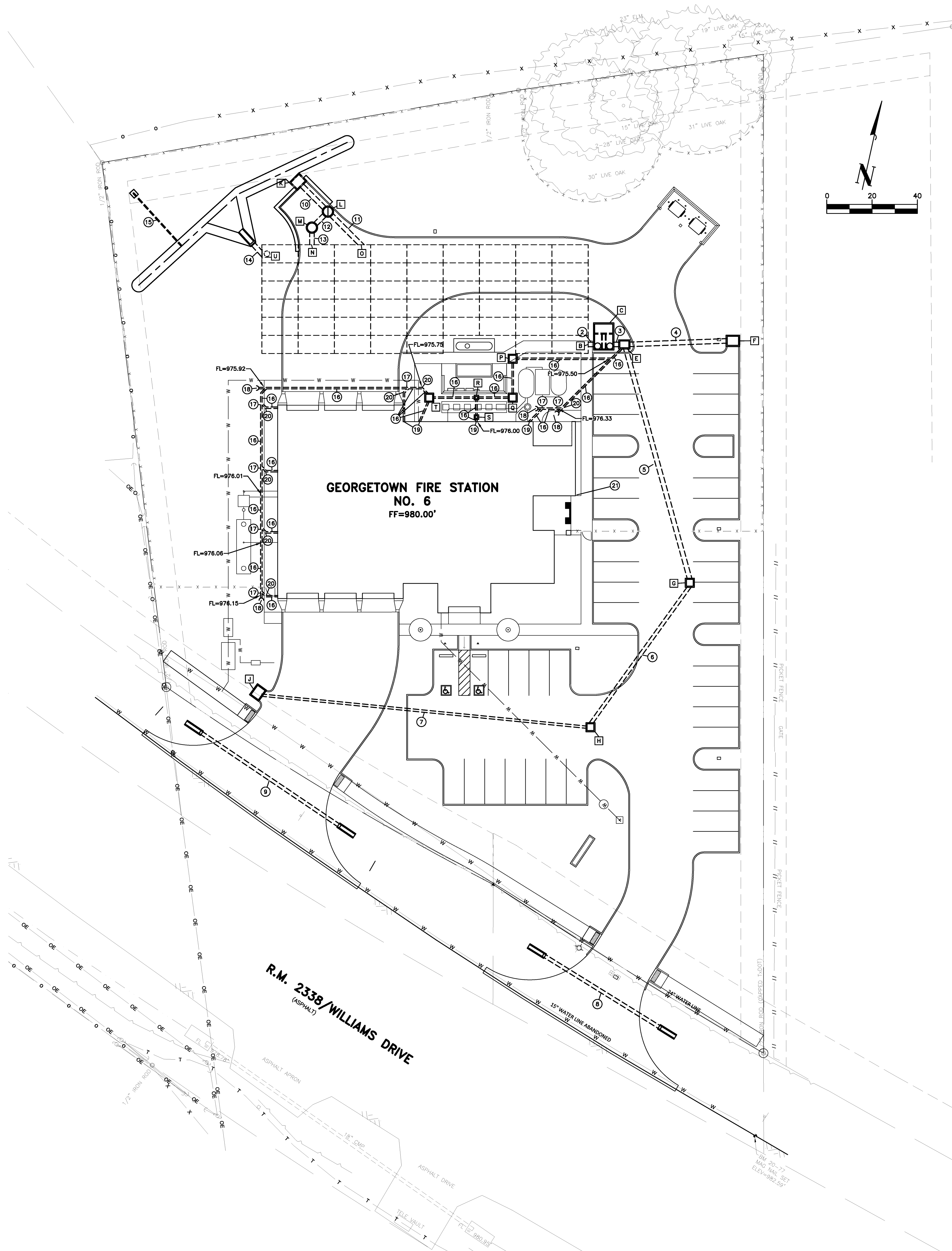
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C4.2
STORM SEWER CULVERT & SIZING CALCULATIONS

STORM SEWER LEGEND

- | INLETS | PIPES |
|--|---|
| A NOT USED | 1 NOT USED |
| B MAKE CONNECTION INTO UNDERGROUND CONCRETE DETENTION BASIN
FL 24" IN E=974.08 | 2 3 LF OF 24" RCP STORM SEWER @ 0.25% |
| C INSTALL CONTECH 8'x11' VAULT JELLYFISH FILTER | 3 3 LF OF 24" RCP STORM SEWER @ 0.25% |
| D NOT USED | 4 44 LF OF 18" RCP STORM SEWER @ 0.25% |
| E MIN. 5'x4' JUNCTION BOX
FL 8" IN SW=975.48
FL 18" IN SE=974.85
FL 18" IN E=974.65
FL 24" OUT W=974.85 | 5 106 LF OF 18" RCP STORM SEWER @ 0.25% |
| F 5' CURB INLET
FL 18" OUT W=974.77 | 6 75 LF OF 18" RCP STORM SEWER @ 0.25% |
| G 3'x3' AREA INLET
FL 18" IN SE=974.91
FL 18" OUT NW=974.91 | 7 145 LF OF 12" SCH. 40 PVC STORM SEWER @ 0.25% |
| H 3'x3' AREA INLET
FL 12" IN W=975.81
FL 18" OUT NE=975.11 | 8 82 LF OF 18" RCP STORM SEWER @ 1.46% WITH 6:1 S.E.T.'s. SEE GRADING PLAN FOR FLOWLINES |
| J 5' CURB INLET
FL 12" IN E=975.98 | 9 75 LF OF 18" RCP STORM SEWER @ 1.51% WITH 6:1 S.E.T.'s. SEE GRADING PLAN FOR FLOWLINES |
| K MODIFIED 5' CURB INLET WITH 5" WIDE x 11" TALL REAR THROAT
FL=977.08
FL 24" OUT SE=974.37 | 10 15 LF OF 24" RCP STORM SEWER @ 0.47% |
| L INSTALL 4' BYPASS MANHOLE
FL 24" IN NW=974.23
FL 8" OUT SW=974.23
FL 24" OUT SE=974.23 | 11 20 LF OF 24" RCP STORM SEWER @ 0.75% |
| M INSTALL CONTECH JELLYFISH MODEL #4 TOTAL SUSPENDED SOLIDS FILTER | 12 7 LF OF 8" SCH. 40 PVC STORM SEWER @ 0.00% |
| N MAKE CONNECTION INTO UNDERGROUND CONCRETE DETENTION BASIN
FL 8" IN N=974.08 | 13 6 LF OF 8" SCH. 40 PVC STORM SEWER @ 2.50% |
| O MAKE CONNECTION INTO UNDERGROUND CONCRETE DETENTION BASIN
FL 24" IN W=974.08 | 14 8 LF OF 24" RCP STORM SEWER @ 3.64% WITH 4:1 S.E.T. SEE GRADING PLAN FOR FLOWLINE OF S.E.T. |
| P 30"x30" JUNCTION BOX
FL 8" IN S=975.60
FL 8" OUT W=975.60 | 15 32 LF OF 8" HDPE STORM SEWER @ 0.25% W/ 4:1 S.E.T. |
| Q 30"x30" JUNCTION BOX
FL 8" IN S=975.64
FL 8" OUT W=975.64 | 16 8" SCH. 40 PVC STORM SEWER @ MIN. 0.25% SLOPE |
| R NDS 12" SQUARE DRAIN KIT (PN 1200BKIT), 12" SQUARE CATCH BASIN RISERS (NO BOTTOM) AS NECESSARY (PN 1215) OR APPROVED EQUAL.
FL 8" IN W=975.68
FL 8" IN S=975.68
FL 8" OUT E=975.68 | 17 8" SCH. 40 PVC WYE |
| S NDS 12" SQUARE DRAIN KIT (PN 1200BKIT), 12" SQUARE CATCH BASIN RISERS (NO BOTTOM) AS NECESSARY (PN 1218) OR APPROVED EQUAL.
FL 8" IN S=975.92
FL 8" OUT W=975.92 | 18 6" DOWNSPOUT CLEANOUT |
| T 30"x30" JUNCTION BOX
FL 8" IN S=975.73
FL 8" OUT W=975.73 | 19 TI-IN TO DOWNSPOUT |
| U MAKE CONNECTION INTO UNDERGROUND CONCRETE DETENTION BASIN AND PLACE RESTRICTOR PLATE ON INSIDE WALL OF DETENTION CHAMBER
FL 24" OUT E=974.08 | 20 8" SCH. 40 PVC 45° BEND |
| | 21 INSTALL INVASIFLOW 4200 STEALTH SPOUT EXTENSION (CONTRACTOR TO DETERMINE THE NUMBER OF EXTENSIONS REQUIRED TO REACH THE FACE OF CURB) |

NOTE:
SEE GRADING PLANS FOR
TOP OF INLET ELEVATIONS



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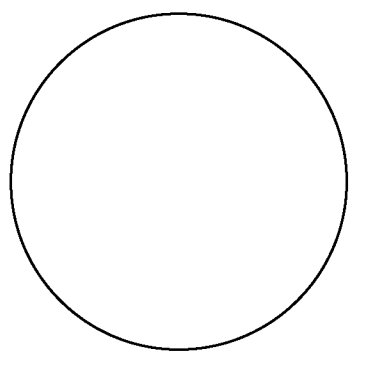
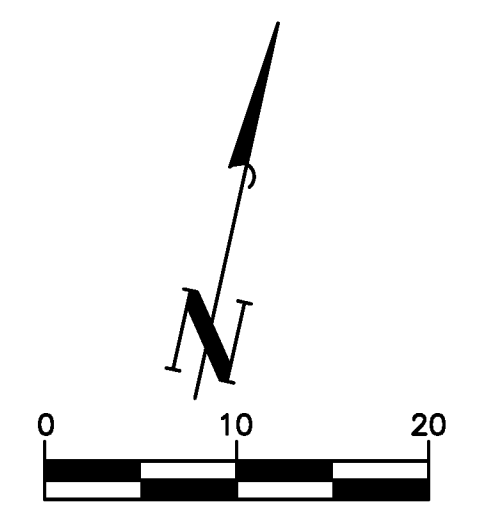
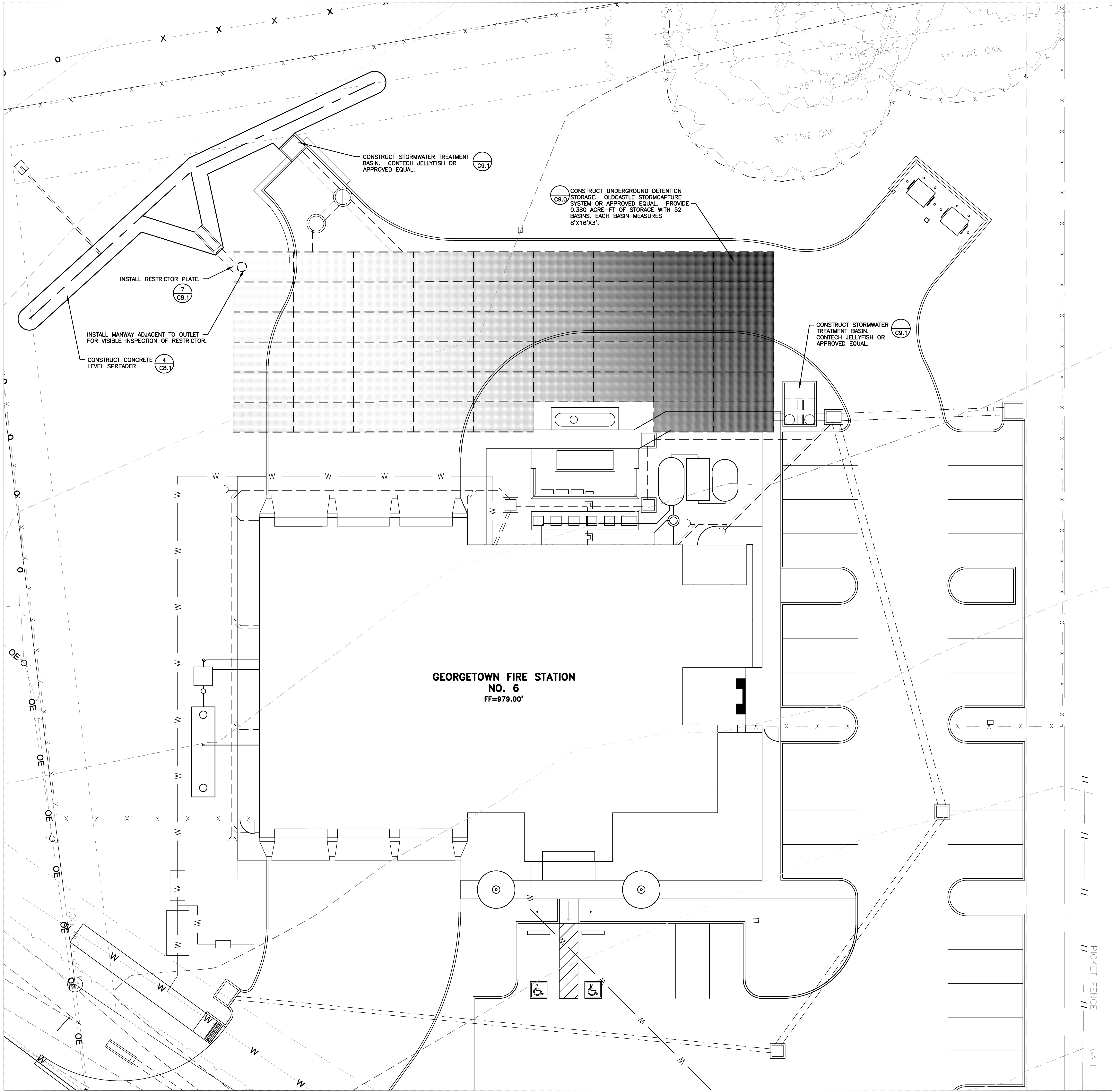
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C4.3
 STORM SEWER
 DRAINAGE PLAN



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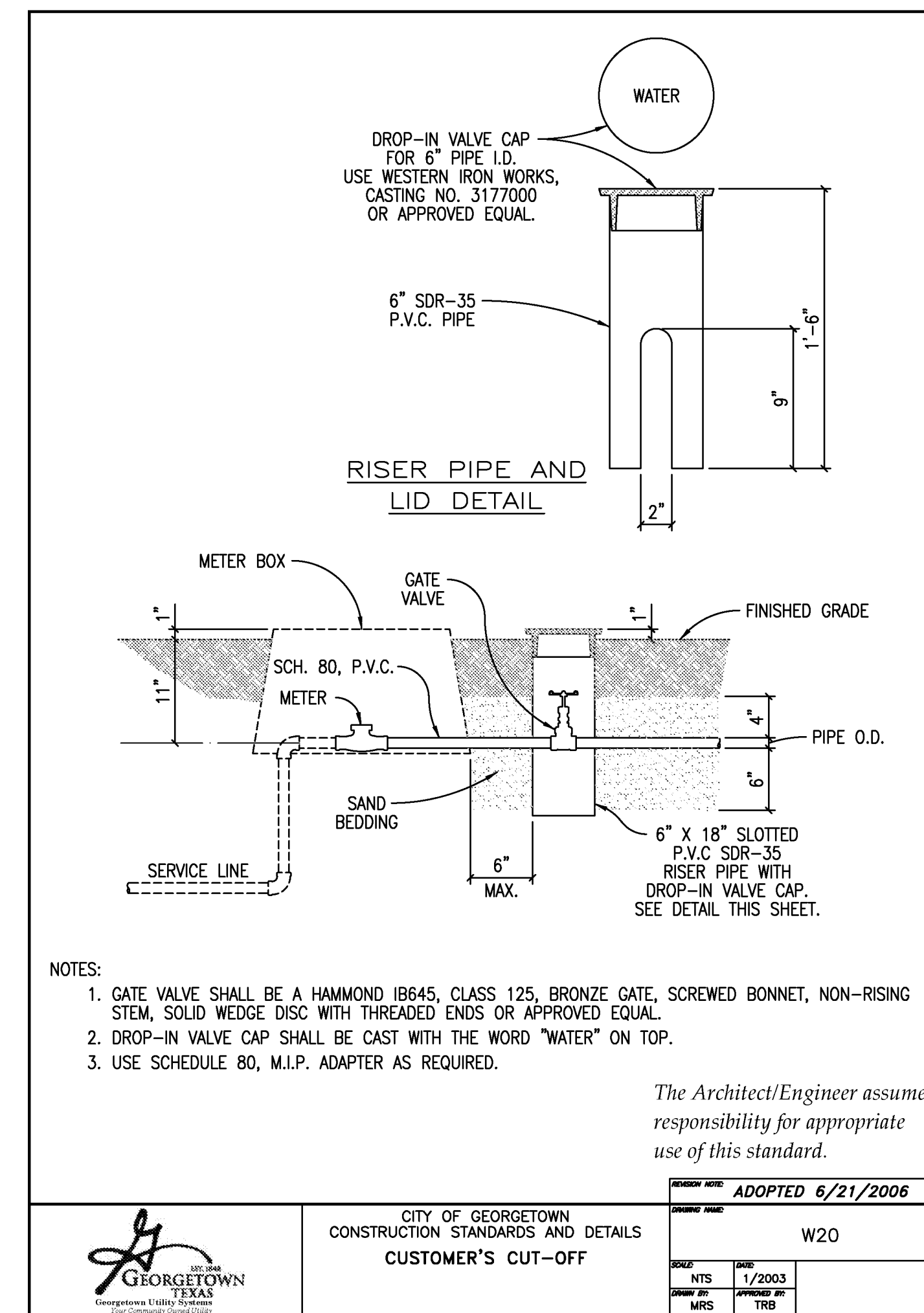
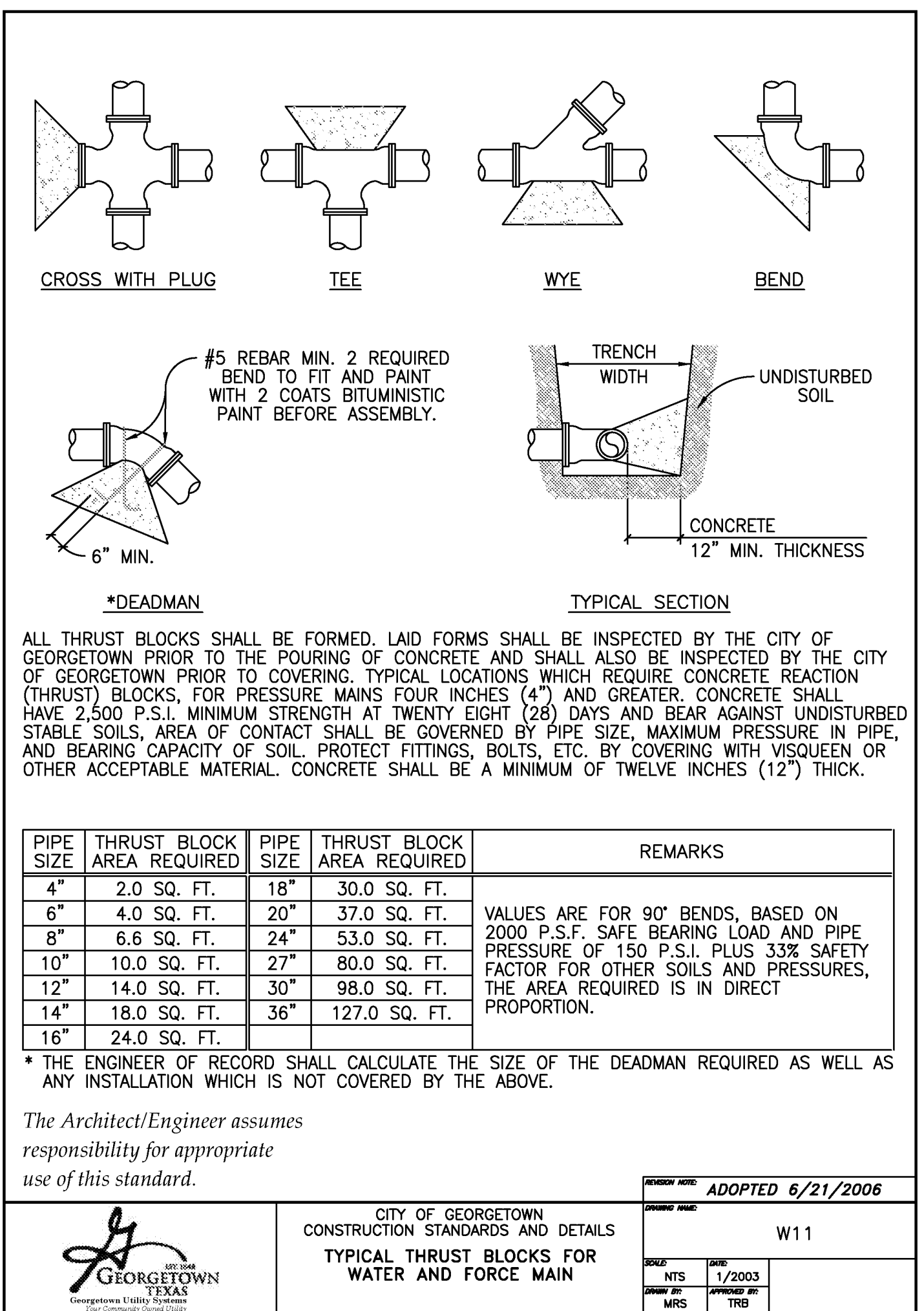
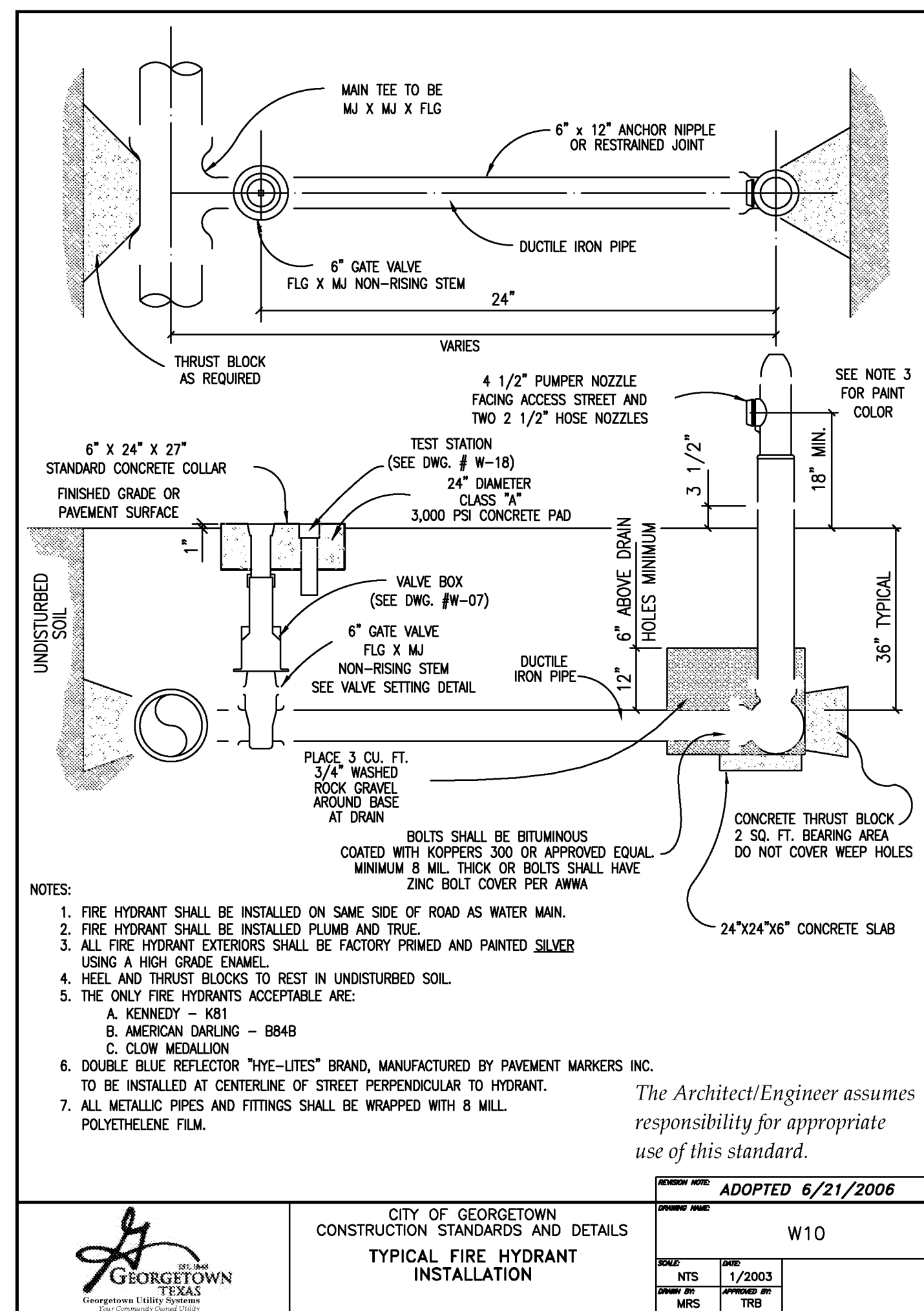
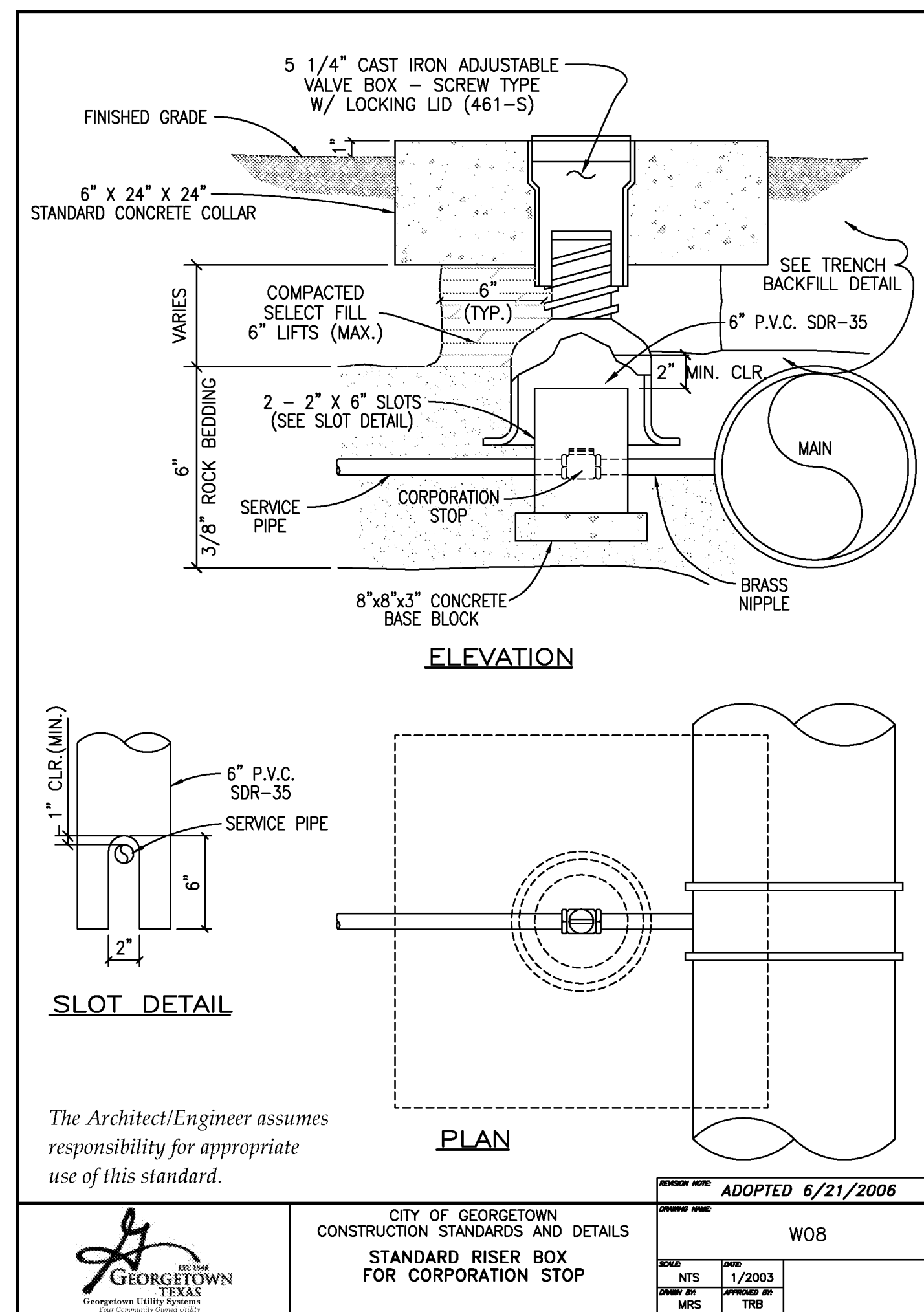
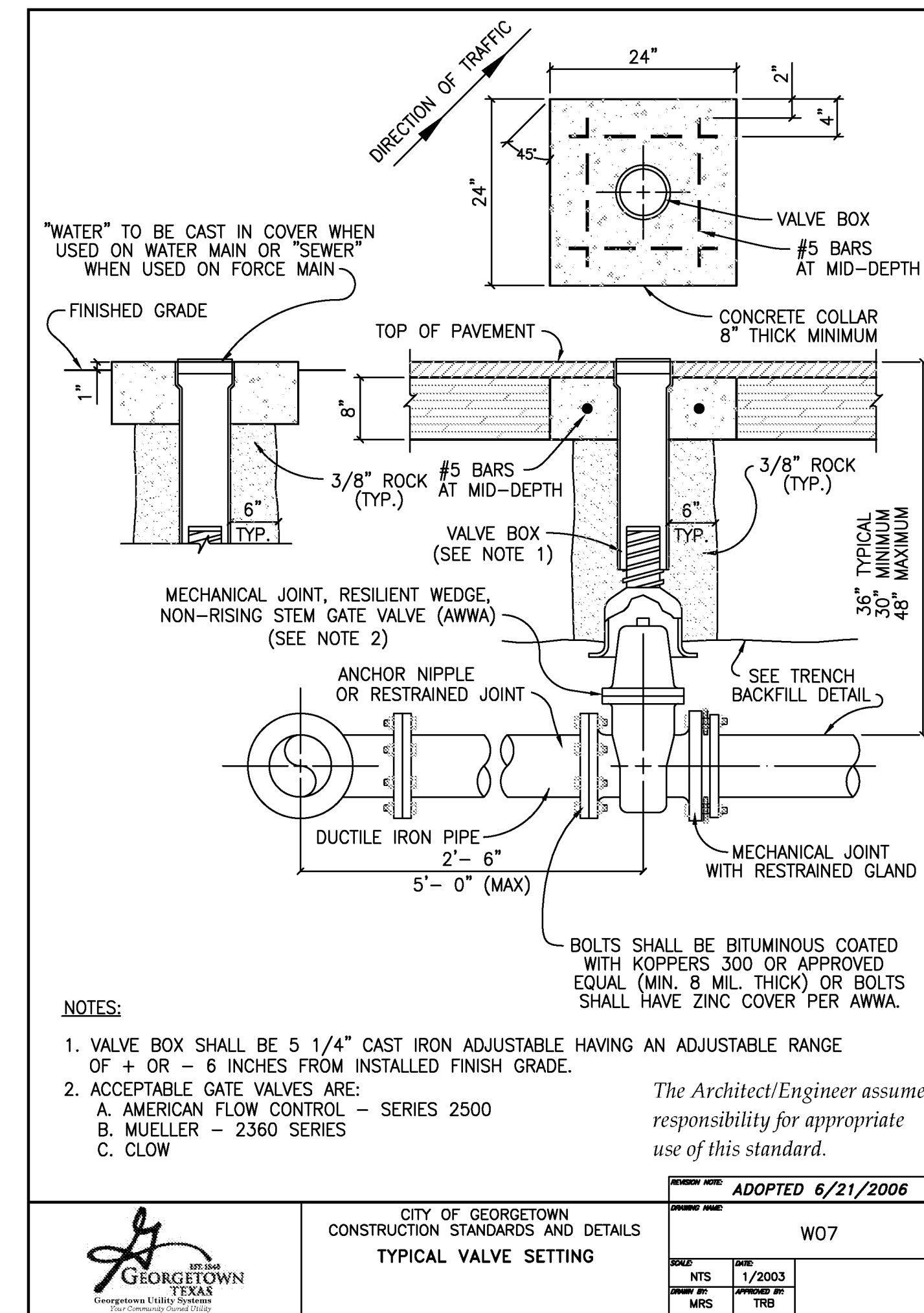
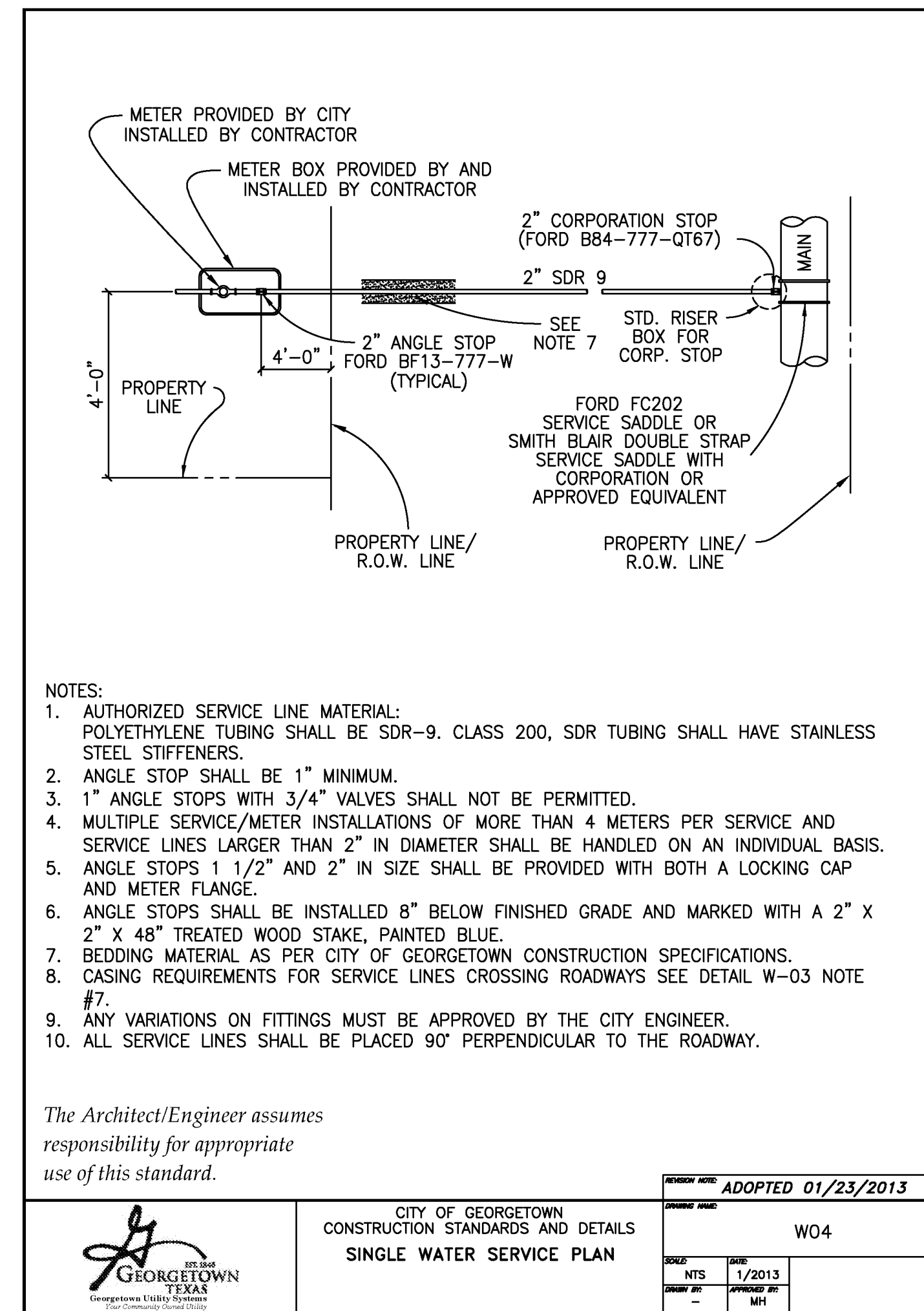
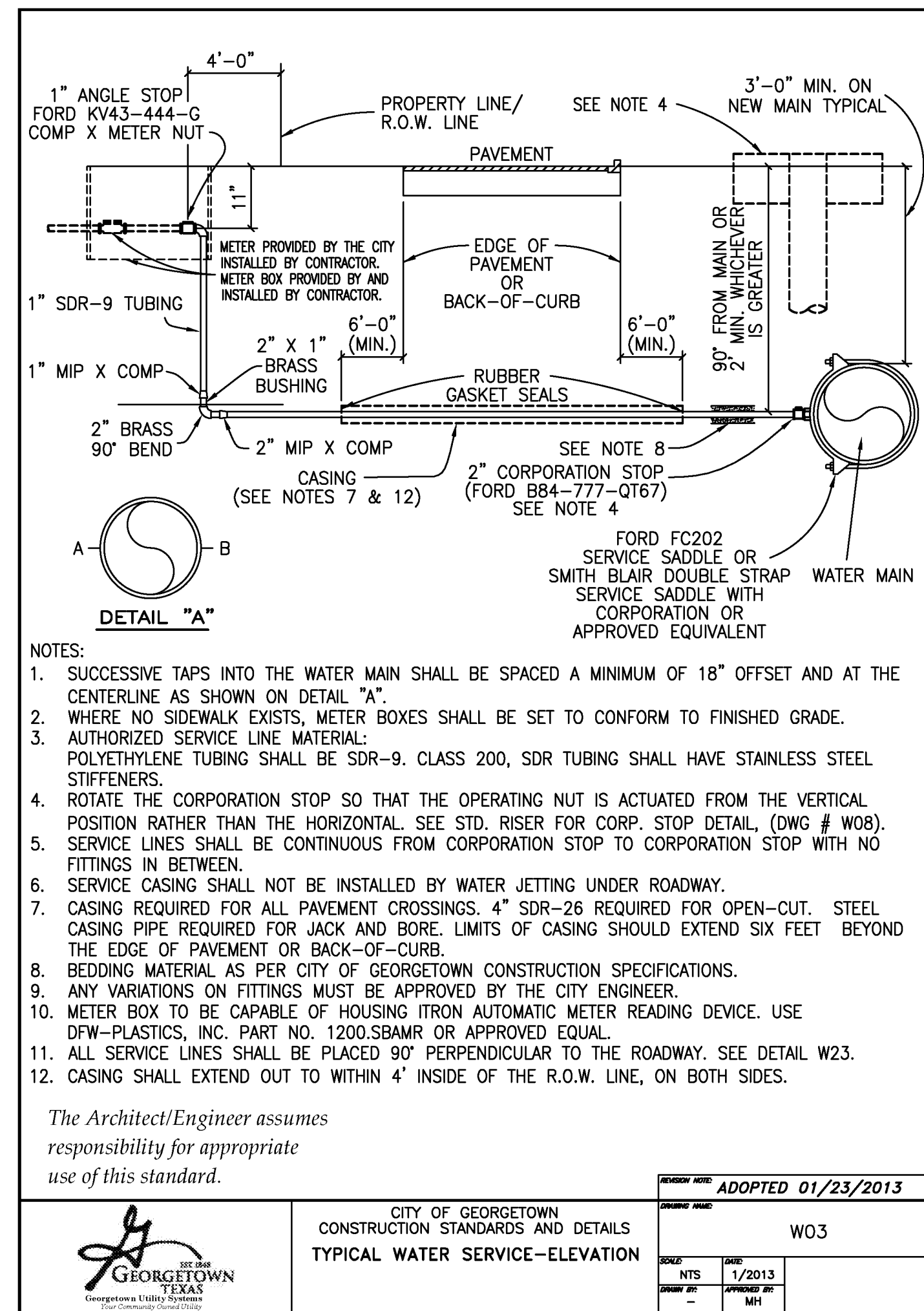
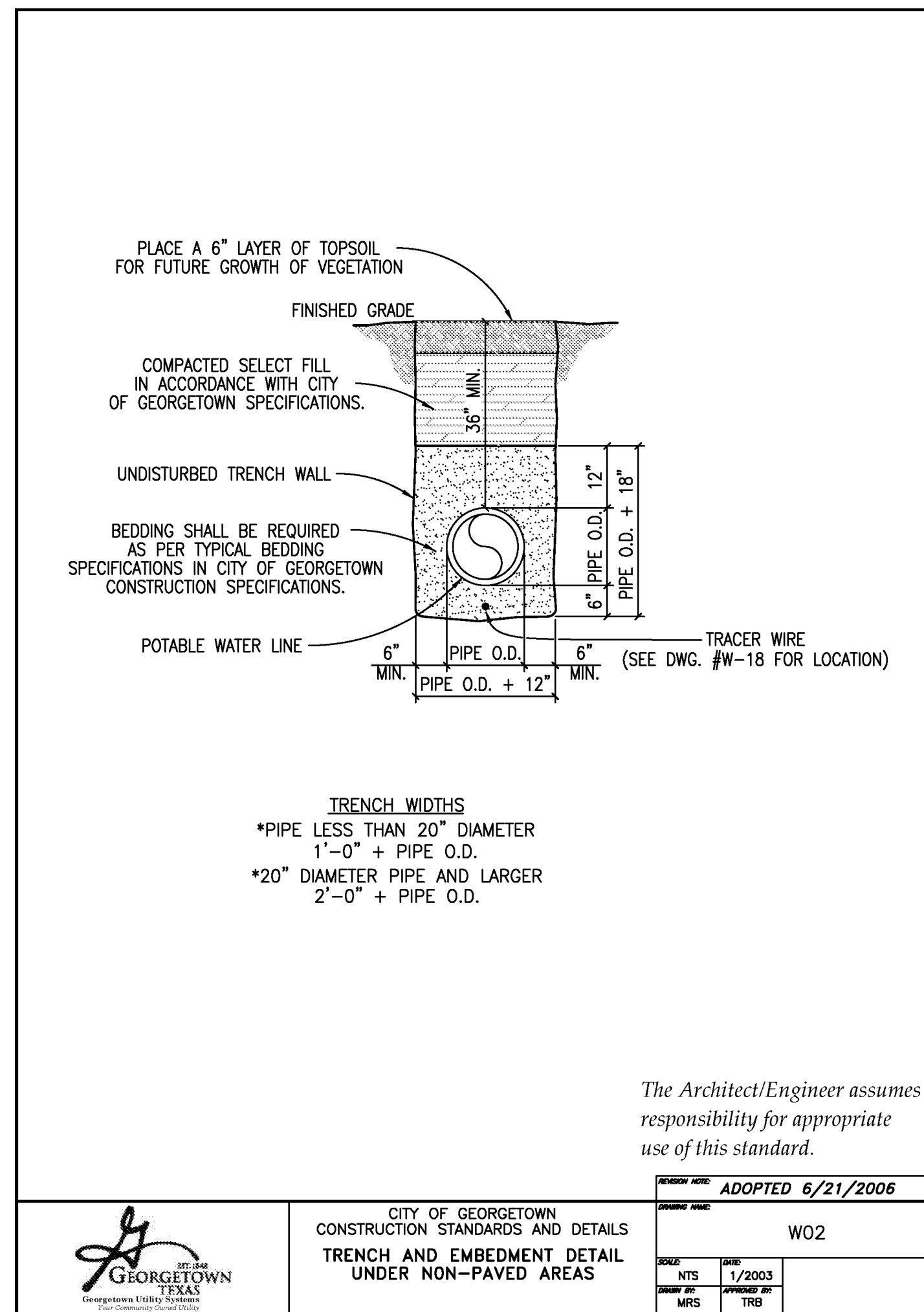
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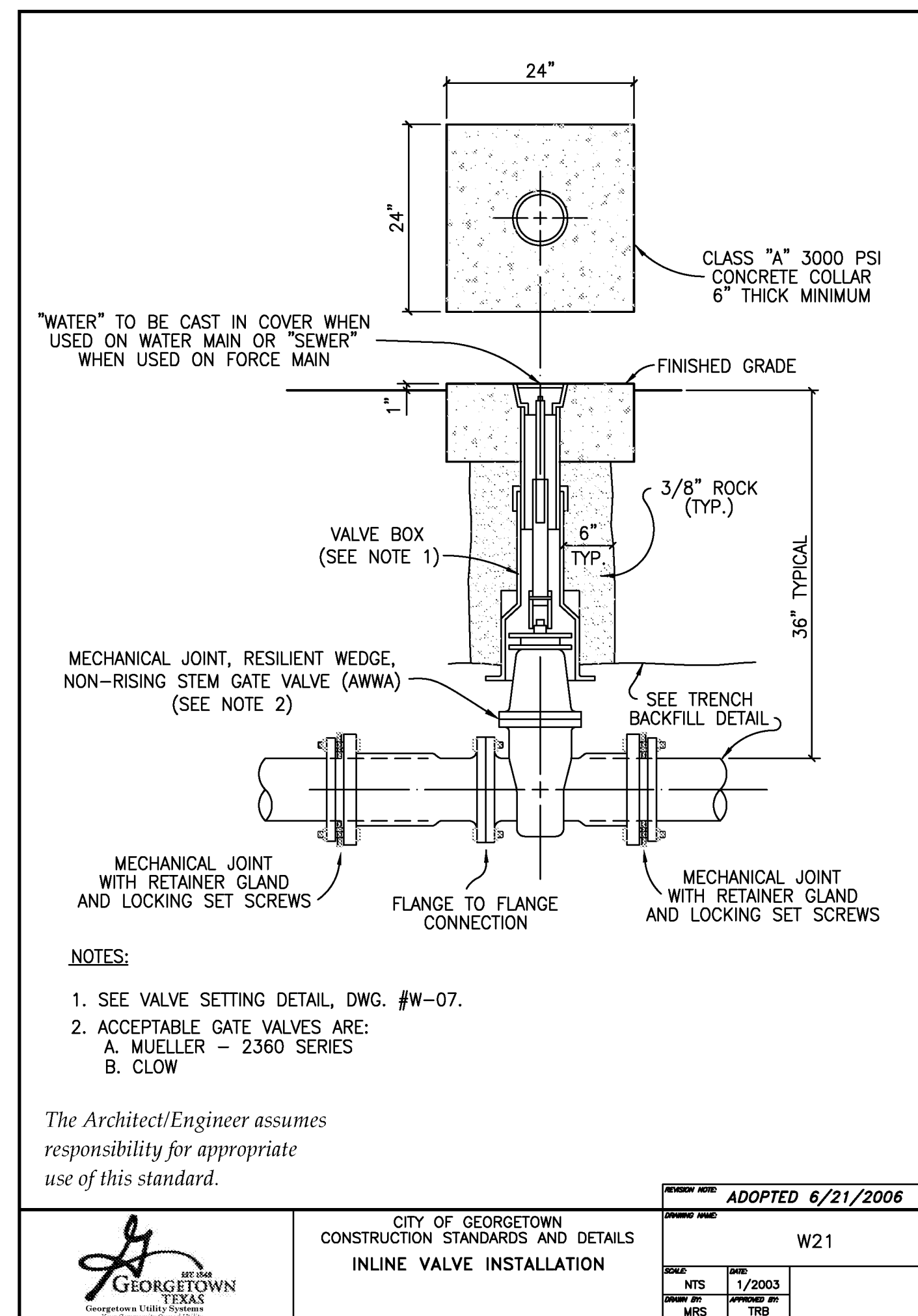
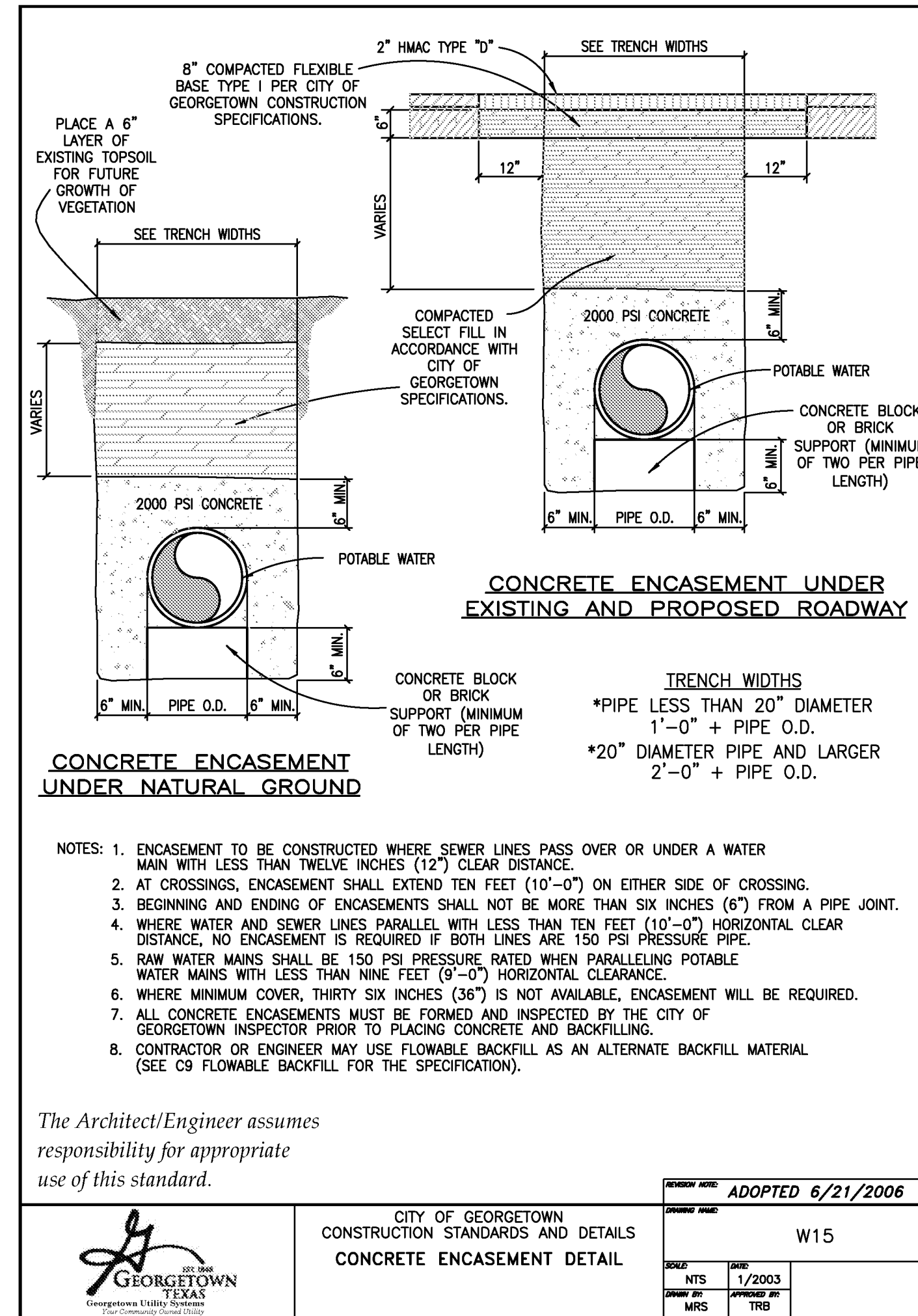
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C4.4
 DETENTION STORAGE & TREATMENT LAYOUT

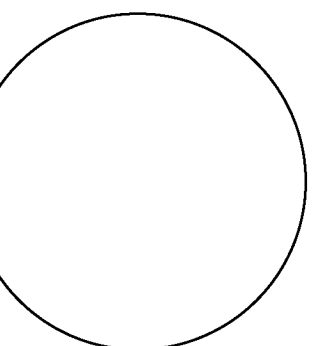
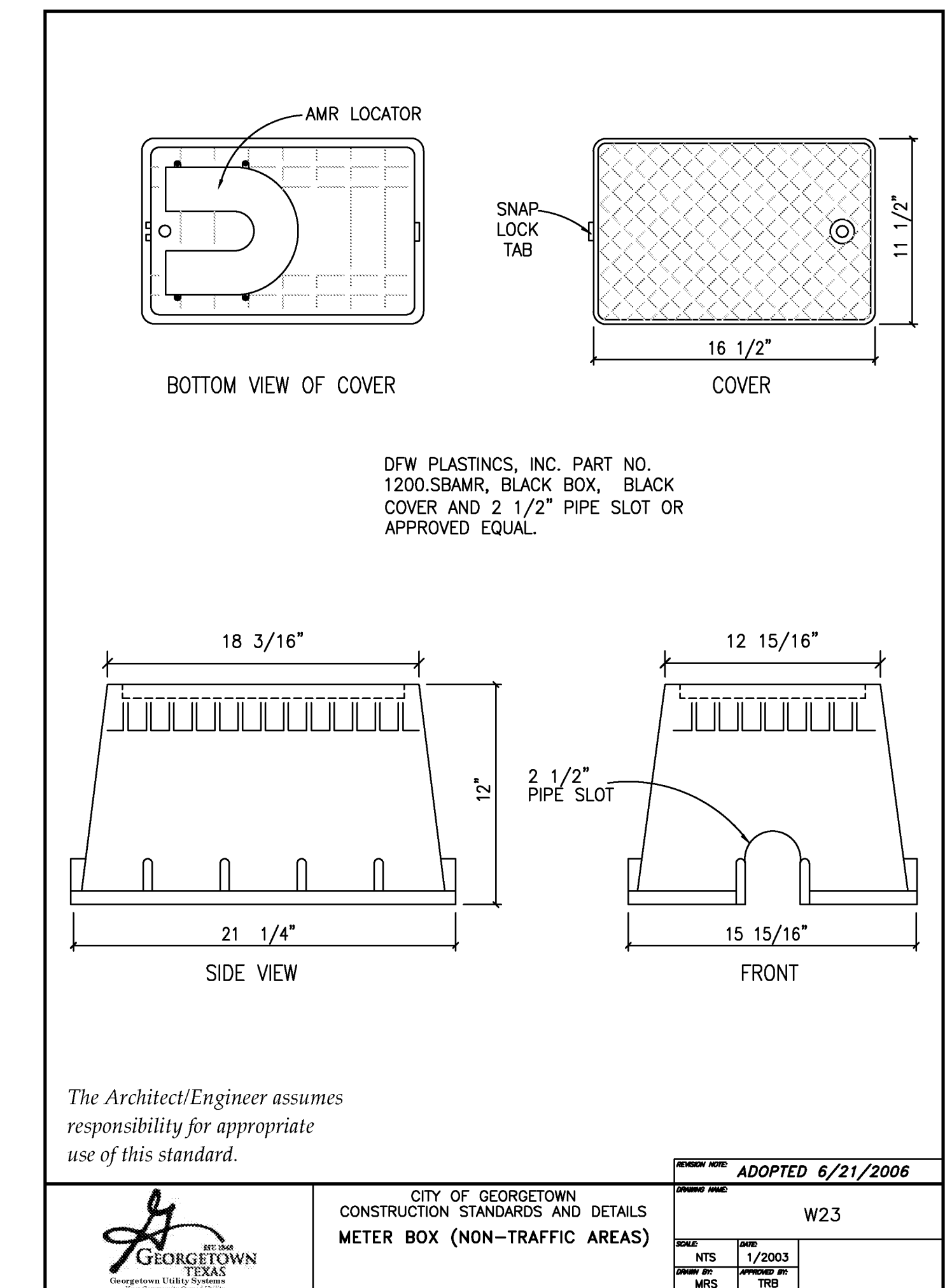
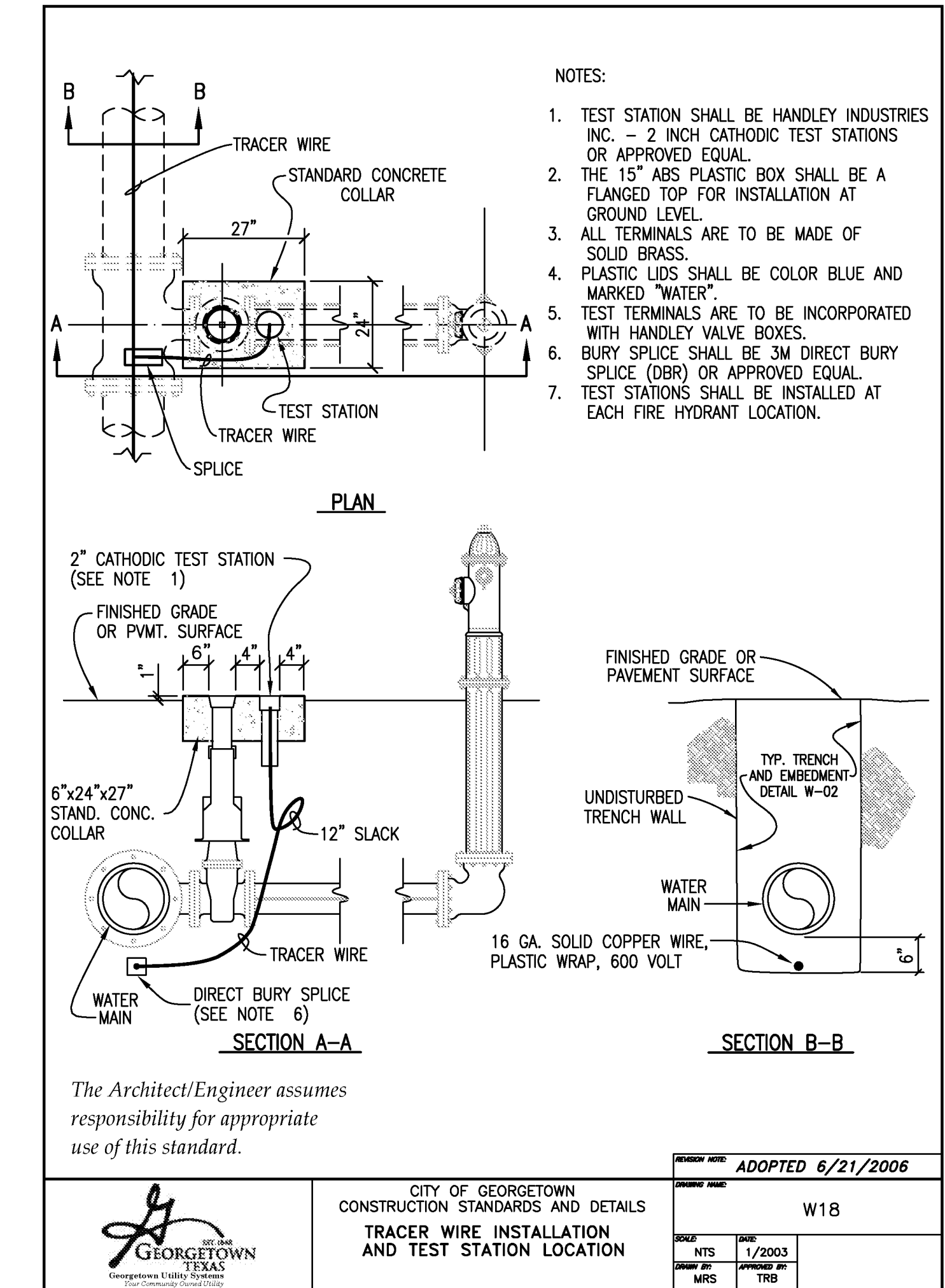


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CITY OF GEORGETOWN
GEORGETOWN FIRE STATION No. 6
6700 R.M. 2038
GEORGETOWN, TX, 78626

NO.	REVISION	DATE

C5.1
WATER DETAILS II

NOTE:
 ALL APPLICABLE GEORGETOWN STANDARD
 DETAILS ARE NOT NECESSARILY INCLUDED
 HEREIN. CONTRACTOR IS RESPONSIBLE FOR
 ACQUIRING A COMPLETE COPY OF THE CITY
 OF GEORGETOWN'S UNIFIED DEVELOPMENT
 CODE AND APPLICABLE CITY STANDARD
 DETAILS.

FUTURE STREET CONNECTION
 Questions Call:
 512-930-3575

NOTES:
 1. (3") WHITE LETTERS
 2. (1 3/8") WHITE BORDER
 3. REFLECTIVE SILVER SHEETING .000 ALUMINUM 2290, BLUE PAINT 710, 3M CO. OR APPROVED EQUIVALENT.

The Architect/Engineer assumes responsibility for appropriate use of this standard.

	CITY OF GEORGETOWN CONSTRUCTION STANDARDS AND DETAILS FUTURE ROAD EXTENSION SIGN DETAIL	SD-21A DATE: 5/2017 BY: WBD CHECKED BY: TRB
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PLAN VIEW (TYPICAL)

NOTES:
 1. ALL WATER SERVICE, WASTE WATER SERVICE AND VALVE LOCATIONS SHALL BE APPROXIMATELY MARKED AS FOLLOWS:
 WATER SERVICE "W" TOP OF CURB
 WASTE WATER SERVICE "S" TOP OF CURB
 VALVE "V" TOP OF CURB
 2. LETTERS SHALL HAVE A 1/2" MAX. WIDTH.

The Architect/Engineer assumes responsibility for appropriate use of this standard.

	CITY OF GEORGETOWN CONSTRUCTION STANDARDS AND DETAILS CURB STAMP DETAIL	SD05 DATE: 1/2003 BY: WBD CHECKED BY: TRB
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SPILL CURB
CATCH AND LAYDOWN CURB
CURB DOWEL DETAIL

NOTES:
 1. ALL WORK AND MATERIAL SHALL CONFORM TO ASTM A615, A615M, C308, AND D1752. BROOM FINISH EXPOSED SURFACE.
 2. CONTRACTION JOINT SPACING 10' MAX.
 3. EXPANSION JOINTS AS PER STD. ASTM D-1752.
 4. 1/2" EXPANSION JOINT MATERIAL SHALL BE PROVIDED WHERE CURB IS ADJACENT TO SIDEWALK OR RAMP.
 5. TRANSITIONS BETWEEN CURBS OR DIFFERING CROSS SECTIONS SHALL OCCUR OVER A 20 FOOT LENGTH AS APPROVED BY THE ENGINEER OR THE CITY OF GEORGETOWN.
 6. ALL CONCRETE SHALL BE CLASS A, 3000 PSI.
 7. ALL SURFACES THAT ARE CHIPPED OR OTHERWISE DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED.
 8. THE FOLLOWING SCHEME OF REINFORCEMENT SHALL BE REQUIRED. THE MANNER OF PLACEMENT AND LOCATION SHALL BE TO THE SATISFACTION OF THE ENGINEER OR THE CITY OF GEORGETOWN.
 A. ALL CURB AND GUTTER AND GUTTER (REINFORCED) SHALL HAVE TWO #4 LONGITUDINAL REINFORCING BARS.
 9. REINFORCING BARS SHALL BE LAPPED A MINIMUM OF 15 INCH.
 10. REINFORCING BARS SHALL BE SUPPORTED WITH REBAR CHAIRS OR OTHER APPROVED METHODS.
 11. REBAR SUPPORTS ARE NOT REQUIRED ON MACHINE PLACED CURB PROVIDED THAT REBAR IS PROPERLY GUIDED INTO THE CURB SECTION.

The Architect/Engineer assumes responsibility for appropriate use of this standard.

	CITY OF GEORGETOWN CONSTRUCTION STANDARDS AND DETAILS CURB AND GUTTER DETAILS	SD06 DATE: 1/2003 BY: WBD CHECKED BY: TRB
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MOUNTABLE CURB
CURB DOWEL DETAIL

NOTES:
 1. ALL WORK AND MATERIAL SHALL CONFORM TO ASTM A615, A615M, C308, AND D1752. BROOM FINISH EXPOSED SURFACE.
 2. CONTRACTION JOINT SPACING 10' MAX.
 3. EXPANSION JOINTS AS PER STD. ASTM D-1752.
 4. 1/2" EXPANSION JOINT MATERIAL SHALL BE PROVIDED WHERE CURB IS ADJACENT TO SIDEWALK OR RAMP.
 5. TRANSITIONS BETWEEN CURBS OR DIFFERING CROSS SECTIONS SHALL OCCUR OVER A 20 FOOT LENGTH AS APPROVED BY THE ENGINEER OR THE CITY OF GEORGETOWN.
 6. ALL CONCRETE SHALL BE CLASS A, 3000 PSI.
 7. ALL SURFACES THAT ARE CHIPPED OR OTHERWISE DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED.
 8. ONE OF THE FOLLOWING SCHEMES OF REINFORCEMENT SHALL BE REQUIRED. THE MANNER OF PLACEMENT AND LOCATION SHALL BE TO THE SATISFACTION OF THE ENGINEER OR THE CITY OF GEORGETOWN.
 A. CURB AND GUTTER (REINFORCED) SHALL HAVE LONGITUDINAL REINFORCING BARS AS FOLLOWS: THREE #4.
 B. ALL TYPES OF CURB (REINFORCED) SHALL HAVE #4 BAR FOR LONGITUDINAL REINFORCEMENT.
 9. REINFORCING BARS SHALL BE LAPPED A MINIMUM OF 15 INCH.
 10. REINFORCING BARS SHALL BE SUPPORTED WITH REBAR CHAIRS OR OTHER APPROVED METHODS.
 11. REBAR SUPPORTS ARE NOT REQUIRED ON MACHINE PLACED CURB PROVIDED THAT REBAR IS PROPERLY GUIDED INTO THE CURB SECTION.

The Architect/Engineer assumes responsibility for appropriate use of this standard.

	CITY OF GEORGETOWN CONSTRUCTION STANDARDS AND DETAILS MOUNTABLE CURB AND GUTTER DETAILS	SD07 DATE: 1/2003 BY: WBD CHECKED BY: TRB
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SIDEWALK SECTION AND JOINT DETAIL

NOTES:
 1. STANDARD LOCATION OF SIDEWALK SHALL BE IN CONFORMANCE WITH THE UDC.
 2. SIDEWALK SHALL CONFORM TO CURRENT TDLR/TAS STANDARDS.
 3. ALL SIDEWALKS SHALL BE SUBMITTED AND APPROVED BY THE REGISTERED ACCESSIBILITY SPECIALIST (RAS) AND ENGINEER OF RECORD.
 4. ANY VARIANCE IN TEXTURE, GRADE OR ALIGNMENT SHALL BE APPROVED BY THE REGISTERED ACCESSIBILITY SPECIALIST (RAS) AND BY THE CITY ENGINEER.
 5. SLIP DOWEL SHALL BE INSTALLED AT EVERY LONGITUDINAL EXPANSION JOINT (UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER DURING ENGINEERING PLAN REVIEW PRIOR TO FINAL DESIGN).

The Architect/Engineer assumes responsibility for appropriate use of this standard.

	CITY OF GEORGETOWN CONSTRUCTION STANDARDS AND DETAILS SIDEWALK SECTION AND JOINT DETAIL	SD14 DATE: 1/2003 BY: WBD CHECKED BY: TRB
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CONCRETE DRIVEWAY APPROACH TYPICAL

NOTES:
 1. MAXIMUM WIDTH OF APPROACH SHALL BE 24'-0" FOR RESIDENTIAL, 30'-0" FOR NON-RESIDENTIAL UNDIVIDED AND 45'-0" FOR NON-RESIDENTIAL DIVIDED.
 2. DRIVEWAY PERMITS SHALL BE ACQUIRED FROM CITY INSPECTION OFFICE.
 3. MINIMUM WIDTH OF APPROACH SHALL BE 10'-0" FOR RESIDENTIAL AND 15'-0" FOR NON-RESIDENTIAL.
 4. LINEAR "RADIIUS" AT CORNERS, PERMITTED FOR "SINGLE FAMILY" OR "TWO FAMILY" RESIDENTIAL DRIVEWAY APPROACH.
 5. SIDEWALK LOCATION SHALL BE APPROVED BY CITY ENGINEER PRIOR TO FINAL DESIGN.
 6. SLOPE 1/8" PER FOOT USUAL, SHALL NOT EXCEED 2.0%.
 7. DRIVEWAY APPROACH THICKNESS SHALL BE A MIN. OF 6".

The Architect/Engineer assumes responsibility for appropriate use of this standard.

	CITY OF GEORGETOWN CONSTRUCTION STANDARDS AND DETAILS CONCRETE DRIVEWAY APPROACH TYPICAL	SD15 DATE: 1/2003 BY: WBD CHECKED BY: TRB
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PEDESTRIAN RAMPS GENERAL NOTES

NOTES:
 1. COMMERCIAL SIDEWALKS WIDTHS - 6'
 RESIDENTIAL SIDEWALKS WIDTHS - 5'
 2. ALL SLOPES ARE MAXIMUM ALLOWABLE. FLATTER SLOPES THAT WILL STILL DRAIN PROPERLY ARE ENCOURAGED.
 3. ALL CONCRETE SURFACES SHALL RECEIVE A LIGHT BROOM FINISH UNLESS NOTED OTHERWISE IN THE PLANS.
 4. FOR PURPOSES OF WARNING, THE CURB RAMPS SHALL HAVE A LIGHT REFLECTIVE VALUE AND TEXTURE THAT SIGNIFICANTLY CONTRASTS WITH THAT OF ADJOINING PEDESTRIAN ROUTES.
 5. TEXTURES MAY CONSIST OF PAVERS WITH TRUNCATED DOME SURFACES. TEXTURES ARE REQUIRED TO BE DETECTABLE UNDERFOOT. SURFACES THAT WOULD ALLOW WATER TO ACCUMULATE ARE PROHIBITED.
 6. COLOR CONTRAST, FOR EXAMPLE, MAY BE ACCOMPLISHED WITH COLORED CONCRETE PAVERS THAT HAVE TRUNCATED DOMES WHICH WOULD PROVIDE A CONTRAST WITH TYPICALLY LIGHT COLORED CONCRETE.
 7. ADDITIONAL INFORMATION ON CURB RAMP LOCATION, DESIGN, VISIBILITY AND TEXTURE MAY BE FOUND IN THE CURRENT EDITION OF THE TEXAS ACCESSIBILITY STANDARDS (TAS) PREPARED AND ADMINISTERED BY THE TEXAS DEPARTMENT OF LICENSING AND REGULATION (TDLR).
 8. RAISED MEDIANS SEPARATE OPPOSING DIRECTIONS OF TRAFFIC AND PROVIDE A REFUGE AREA FOR PEDESTRIANS IF THEY ARE UNABLE TO CROSS THE ENTIRE ROADWAY IN THE ALLOTTED SIGNAL PHASE. MEDIAN CROSSING SHALL BE A MINIMUM OF 5' WIDE. MEDIANS SHOULD BE DESIGNED TO PROVIDE ACCESSIBLE PASSAGE OVER OR THROUGH THEM.
 9. ALL SIDEWALK PLANS AND DETAILS SHALL BE SUBMITTED AND APPROVED BY "REGISTERED ACCESSIBILITY SPECIALIST" (RAS).
 10. ANY PART OF THE ACCESSIBLE ROUTE WITH A SLOPE GRATER THAN 1:20 (5%) SHALL BE CONSIDERED A RAMP. IF A RAMP HAS A RISE GREATER THAN 6 INCHES OR A HORIZONTAL PROJECTION GREATER THAN 72 INCHES, THEN IT SHALL MEET THE REQUIREMENTS OF A RAMP PER TAS 405. THE ONLY EXCEPTION IS AT CURB RAMPS. HANDRAILS ARE NOT REQUIRED ON CURB RAMPS. CURB RAMPS SHALL BE PROVIDED WHERE EVER AN ACCESSIBLE ROUTE CROSSES (PENETRATES) A CURB.
 11. TRAFFIC SIGNAL OR ILLUMINATION POLES, GROUND BOXES, CONTROLLER BOXES, SIGNS, DRAINAGE FACILITIES AND OTHER ITEMS SHALL BE PLACED SO NOT TO OBSTRUCT THE ACCESSIBLE ROUTE OR ACT PROTRUDING OBJECTS.
 12. ALL SIDEWALKS SHALL BE DOWELED INTO EXISTING SIDEWALKS, DRIVEWALKS, DRIVEWAYS, INLET BOXES, RETAINING WALLS, ETC.
 13. ALL SIDEWALK CROSS-SLOPES SHALL NOT EXCEED 1:50, UNLESS A VARIANCE IS PROVIDED BY TDLR.

(PENETRATES) A CURB.

The Architect/Engineer assumes responsibility for appropriate use of this standard.

	CITY OF GEORGETOWN CONSTRUCTION STANDARDS AND DETAILS PEDESTRIAN RAMPS GENERAL NOTES	SD28 DATE: 1/2003 BY: WBD CHECKED BY: TRB
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TRUNCATED DOME PATTERN CURB RAMP
CONCRETE PAVER WITH TRUNCATED DOME SURFACE

GENERAL NOTES:
 CONCRETE PAVER UNITS SHALL MEET ALL REQUIREMENTS OF ASTM C-938, C-933, AND SHALL BE Laid IN A TWO BY TWO UNIT BASKET WEAVE PATTERN, UNLESS SHOWN OTHERWISE IN THE PLANS.
 CONCRETE PAVER UNIT SHALL HAVE A TRUNCATED DOME TOP SURFACE FOR DETECTABLE WARNING TO PEDESTRIANS.
 CONCRETE PAVER UNIT COLOR FOR THE RAMP SHALL BE A CONTRASTING COLOR TO THE ADJACENT SURFACES. THE COLOR OF THE CONCRETE PAVER UNITS SHALL BE SHOWN ELSEWHERE IN THE PLANS. (ADVANCE SURFACES INCLUDE SIDE FLARES).
 CONCRETE PAVER UNITS SHALL BE SAW CUT ONLY AND ANY CUT UNIT SHALL BE NOT LESS THAN 25 PERCENT OF A FULL UNIT.

The Architect/Engineer assumes responsibility for appropriate use of this standard.

	CITY OF GEORGETOWN CONSTRUCTION STANDARDS AND DETAILS CURB RAMP TEXTURES TYPE A	SD37 DATE: 1/2003 BY: WBD CHECKED BY: TRB
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BRW

ROBERT C. SCHMIDT
 50465
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF TEXAS
 11/16/18

STRAND ASSOCIATES
 STRAND JOB #
 3935.034

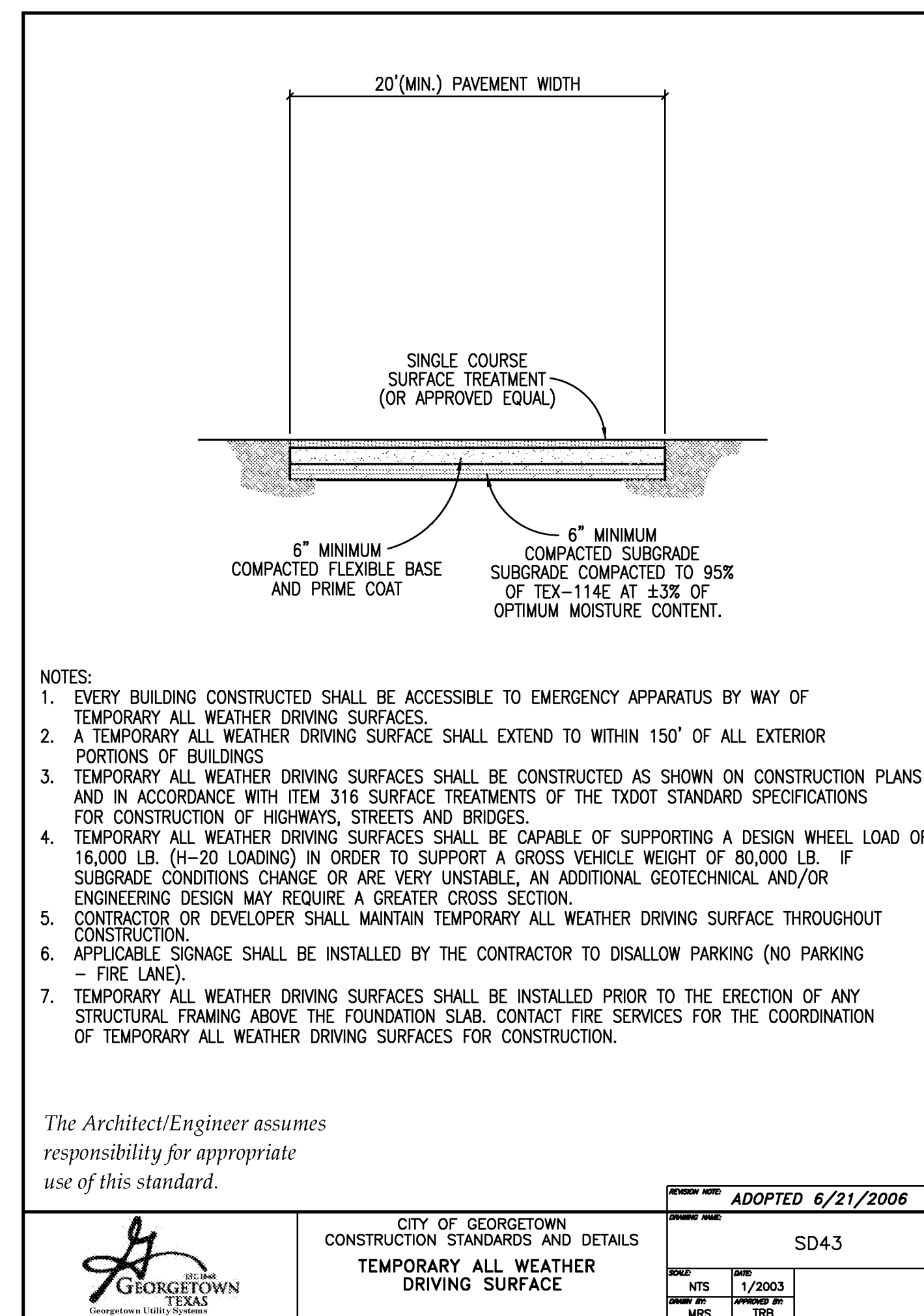
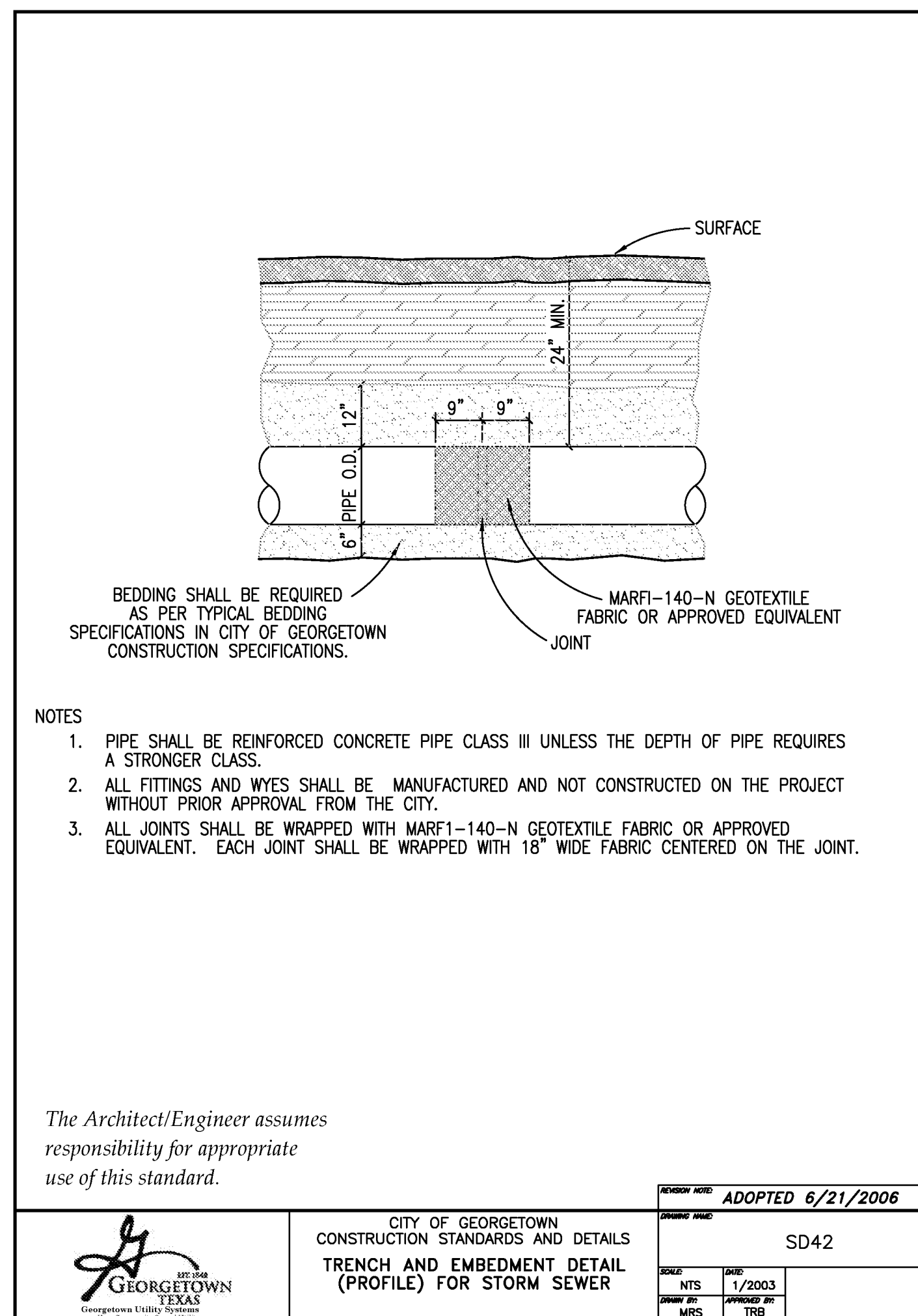
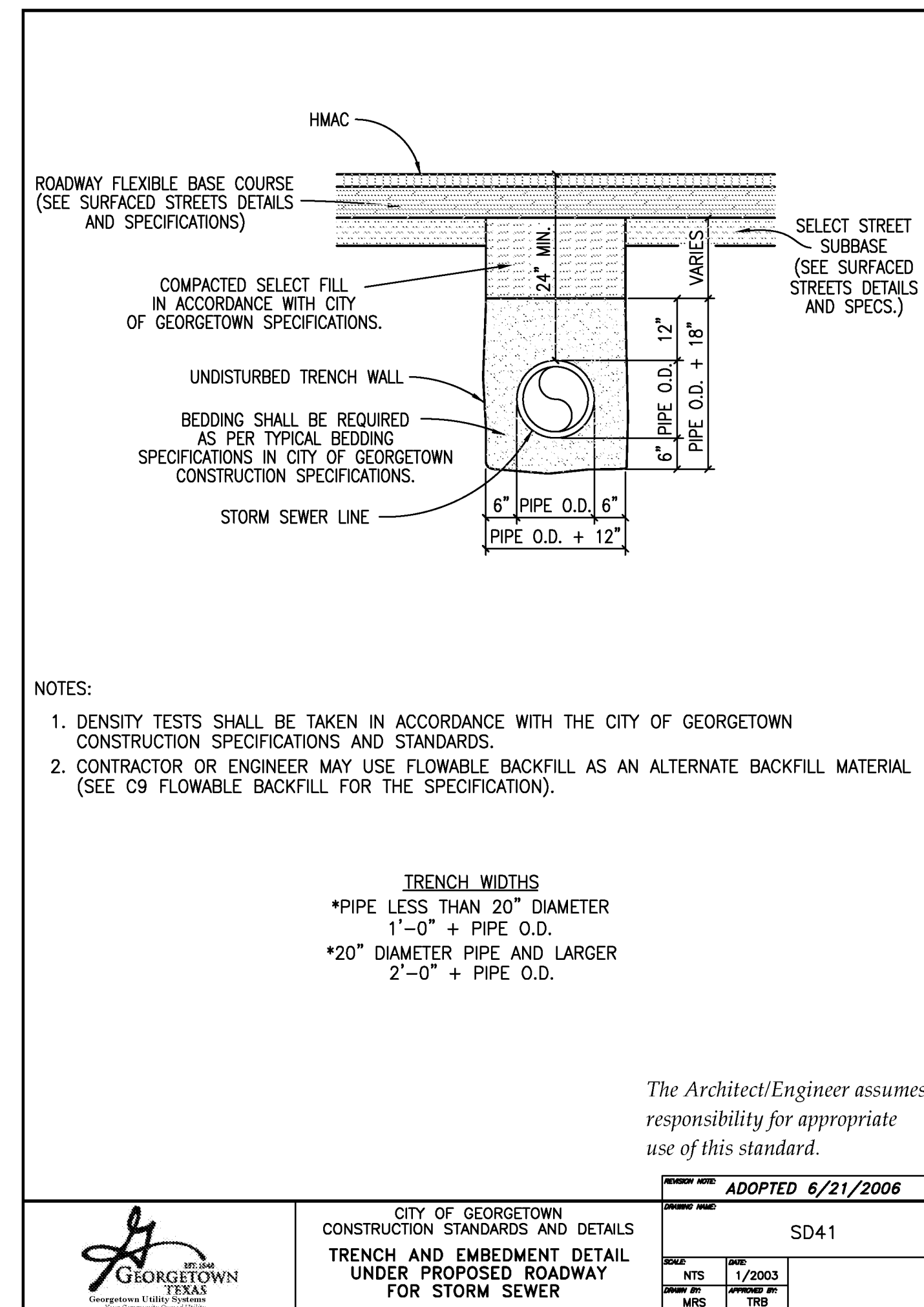
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CITY OF GEORGETOWN
 GEORGETOWN FIRE STATION No. 6
 6700 R.M. 2038
 GEORGETOWN, TX, 78626

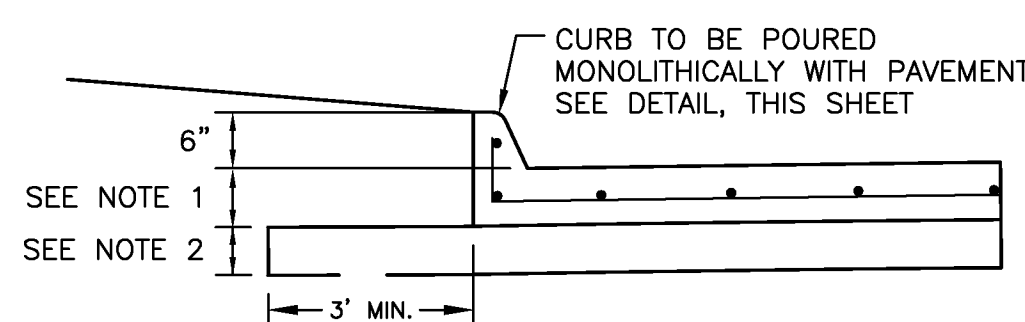
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C6.0
 STREET & ROADWAY
 DETAILS I

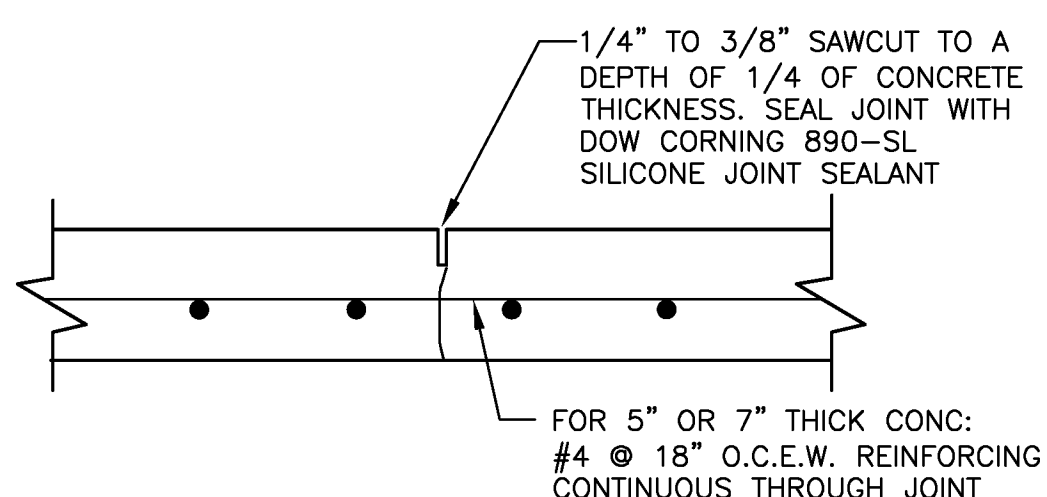
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- NOTES:
- PARKING AREA PAVEMENT - 5" THICK CONCRETE (MINIMUM 28-DAY STRENGTH OF 3,500 P.S.I.) WITH NO. 3 BARS @ 18" O.C.E.W.
 DRIVEWAYS AND TRUCK TRAFFIC PAVEMENT - 7" THICK CONCRETE (MINIMUM 28-DAY STRENGTH OF 3,500 P.S.I.) WITH NO. 3 BARS @ 18" O.C.E.W.
 - MOISTURE CONDITIONED SUBGRADE.
 P1< SOIL SUBGRADE SHOULD BE SCARIFIED TO A DEPTH OF 6" MOISTURE CONDITIONED AND RECOMPACTED TO A MINIMUM 95% PER ASTM D 698 WITHIN +/-3%.
 P1> SOIL SUBGRADE SHOULD BE SCARIFIED TO A DEPTH OF 6" MOISTURE CONDITIONED AND RECOMPACTED TO A MINIMUM 95% PER ASTM D 698 WITHIN OPTIMUM +4%.

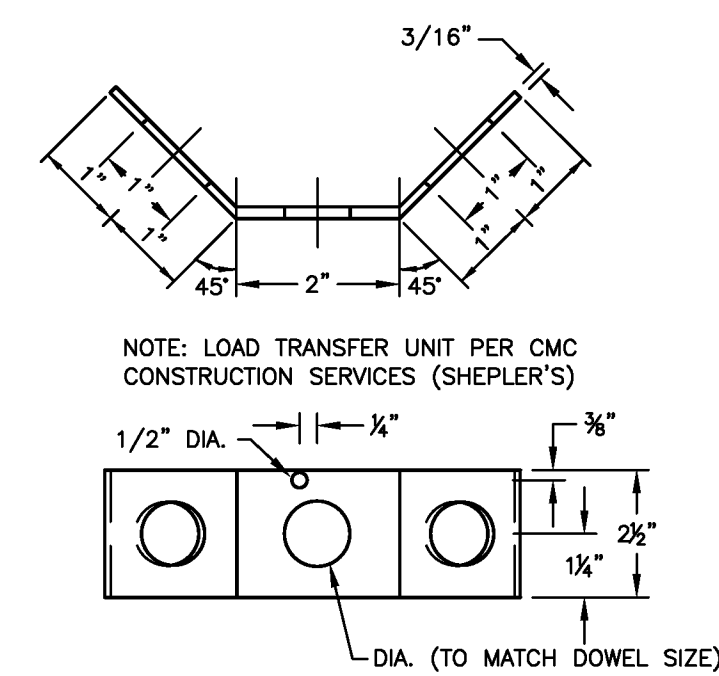


1 CONCRETE PAVEMENT SECTION
NTS

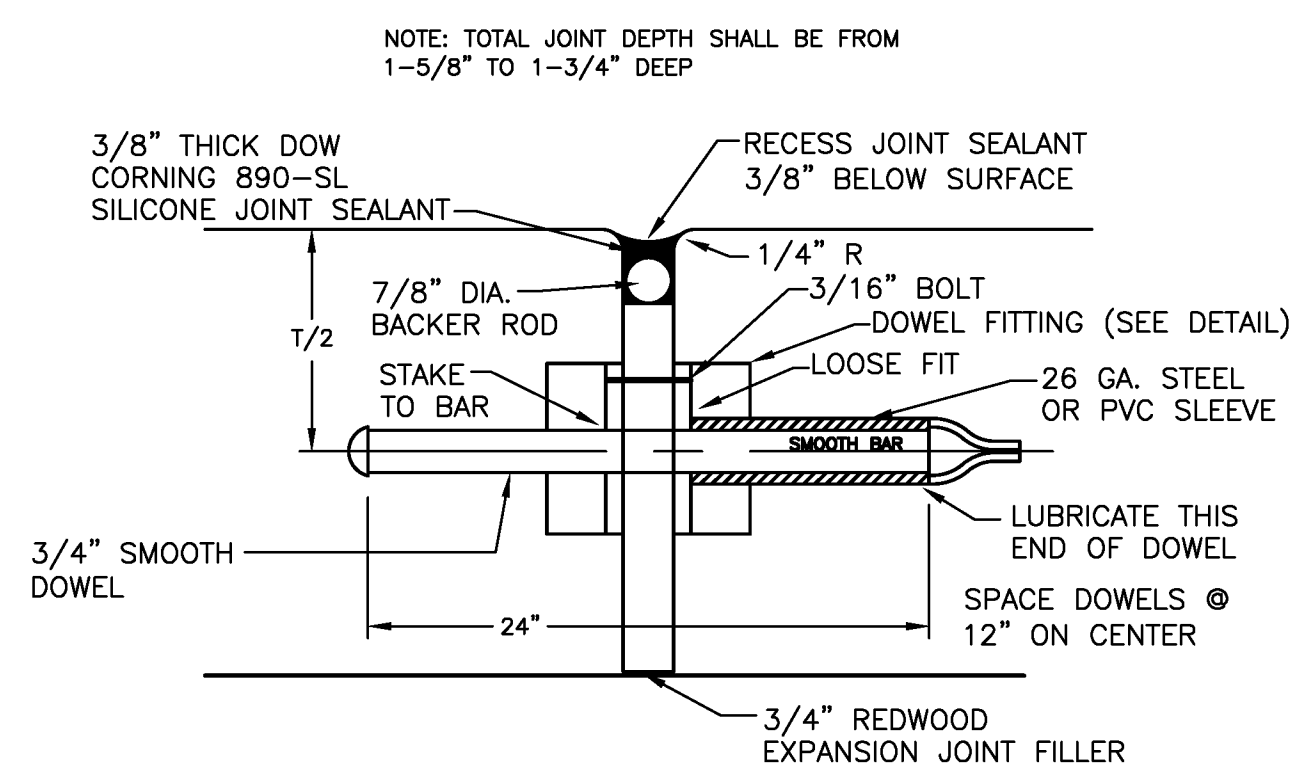


3 SAW CUT CONTRACTION JOINT
NTS

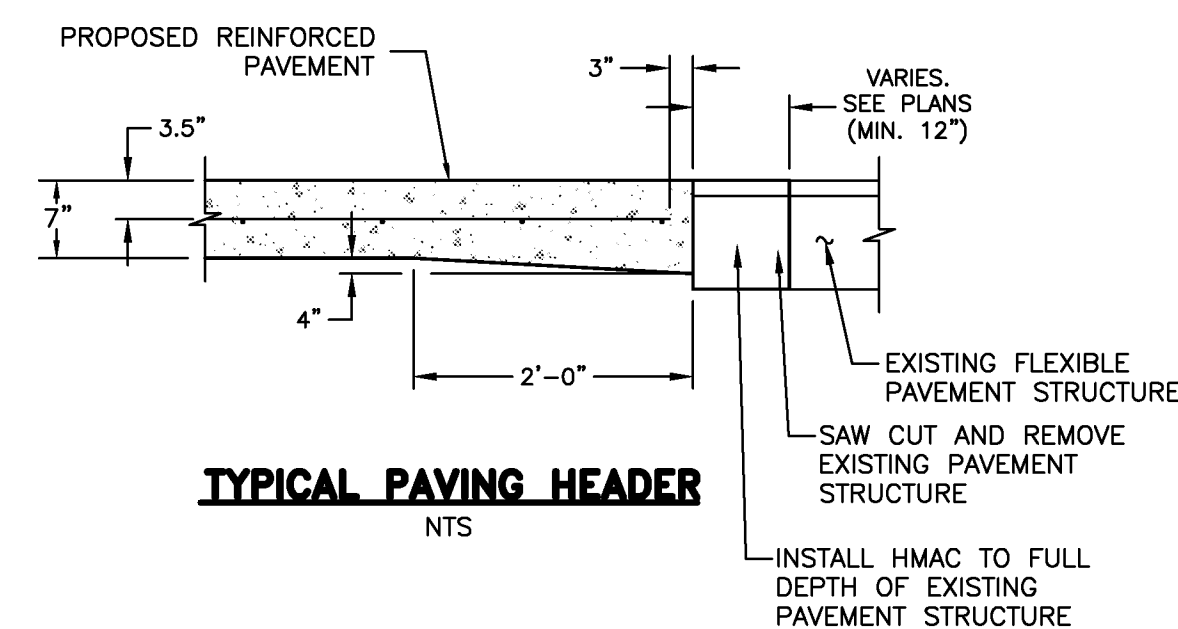
NOTE: SAWED JOINTS SHALL BE ACCOMPLISHED AS SOON AS POSSIBLE WITHOUT DAMAGE TO THE PAVEMENT REGARDLESS OF TIME OF DAY OR WEATHER CONDITIONS AND SHALL BE COMPLETED WITHIN 24 HOURS OF CONCRETE PLACEMENT.



2 DOWEL FITTING



4 DOWEL TYPE EXPANSION JOINT IN CONCRETE PAVEMENT
NTS

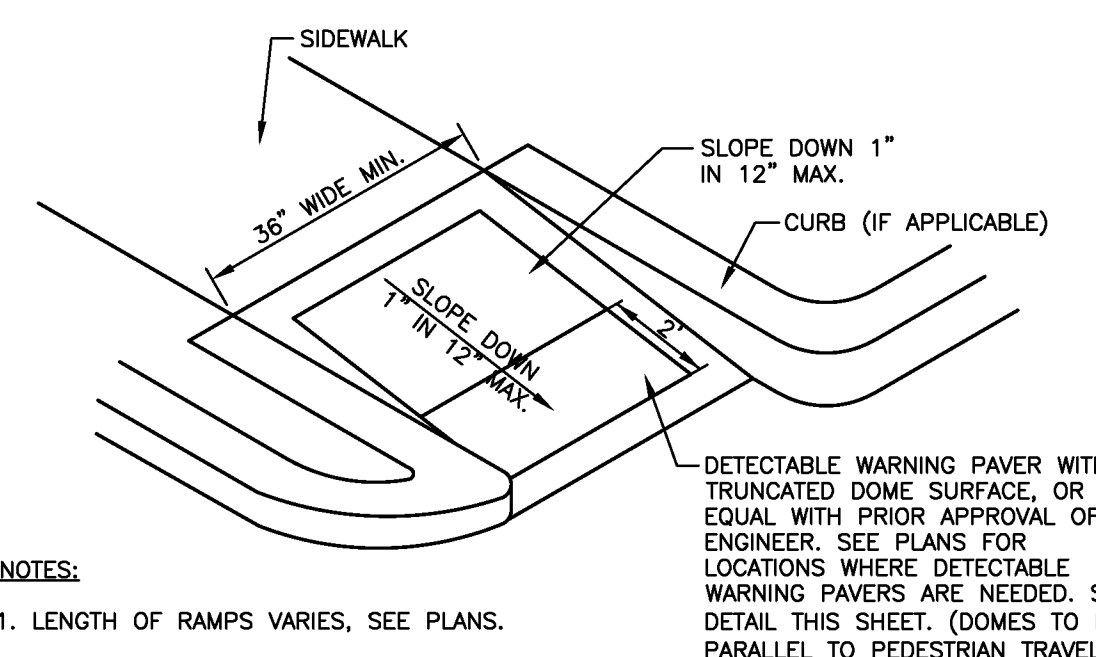


TYPICAL PAVING HEADER
NTS

NOTES FOR PAVING HEADER:

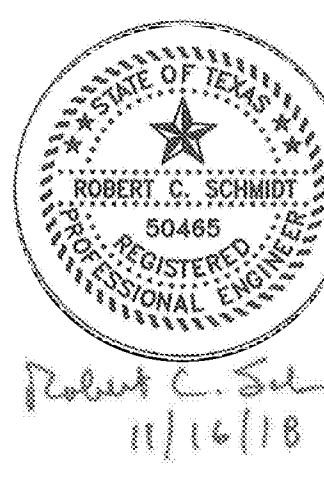
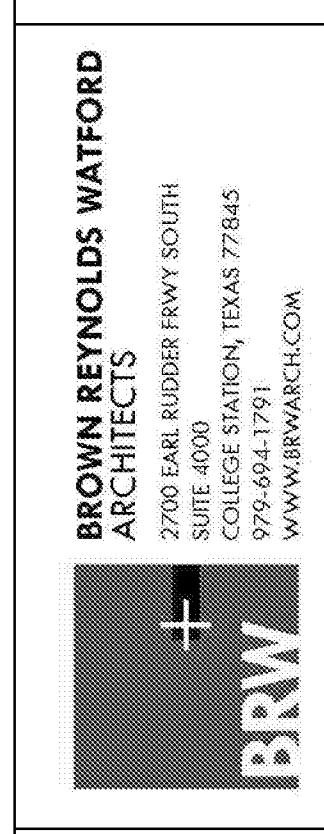
- ADDITIONAL CONCRETE FOR PAVING HEADER SHALL BE CONSIDERED INCIDENTAL TO VARIOUS PAVING BID ITEMS.
- DISTURBED MATERIAL IN THE FLEXIBLE PAVEMENT WILL BE BACKFILLED WITH ASPHALT CONCRETE PAVEMENT (ACP). THE ACP WILL BE CONSIDERED INCIDENTAL TO VARIOUS PAVING BID ITEMS.

5 CONCRETE HEADER DETAIL
NTS



- NOTES:
- LENGTH OF RAMP VARIES, SEE PLANS.
 - ALL AREAS OF RAMP TO COMPLY WITH TAS.

6 HANDICAP CURB RAMP
NTS

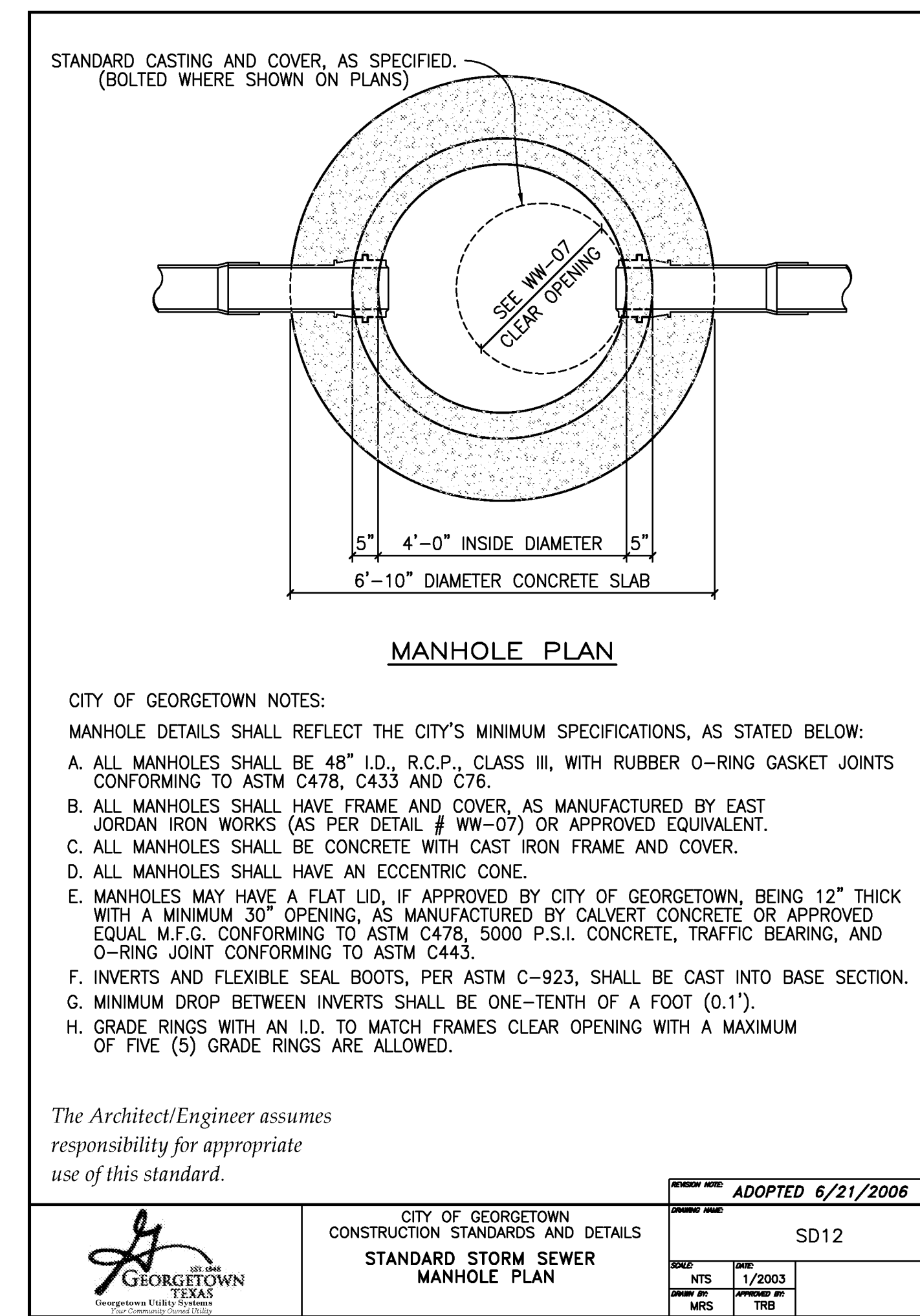
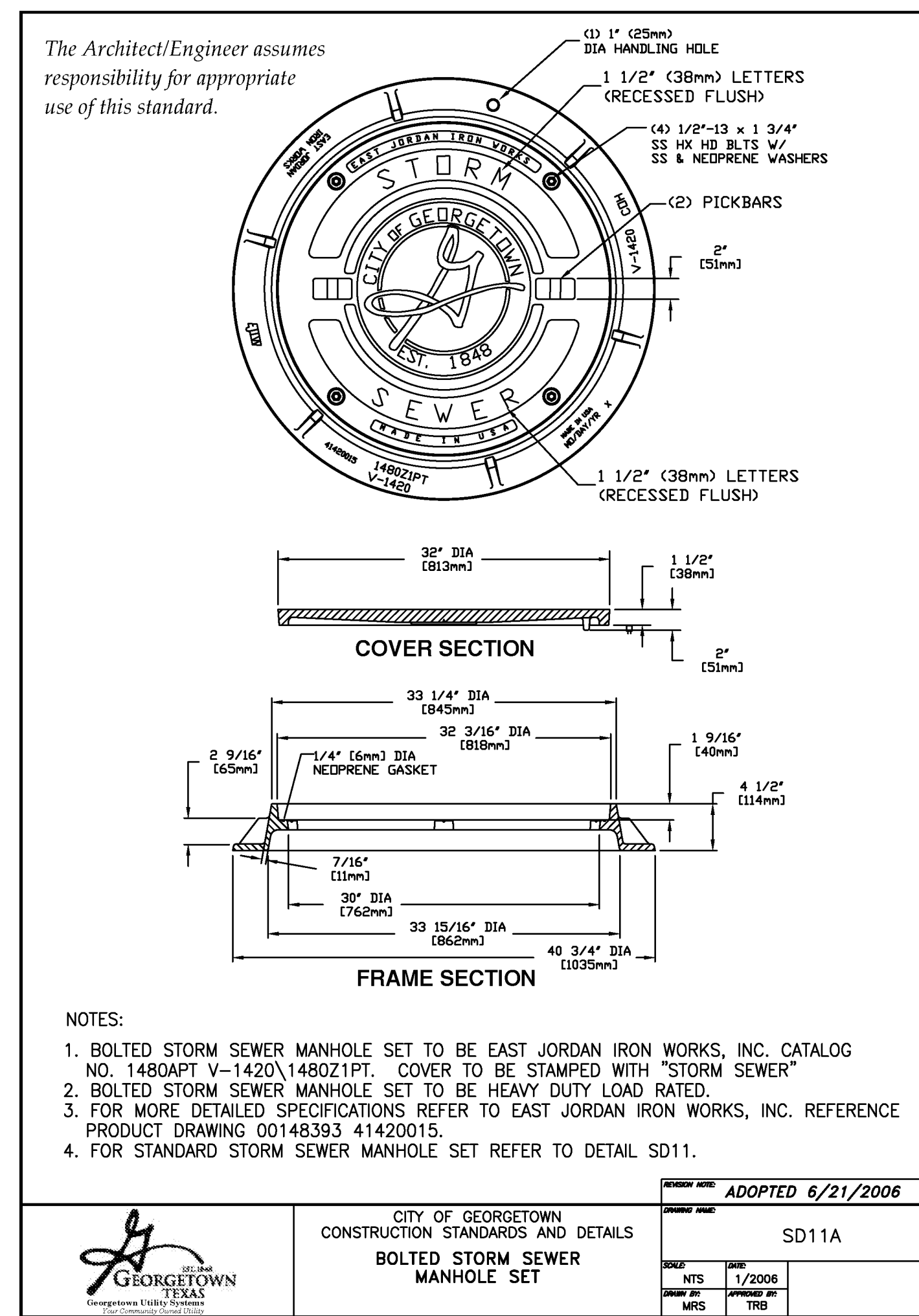
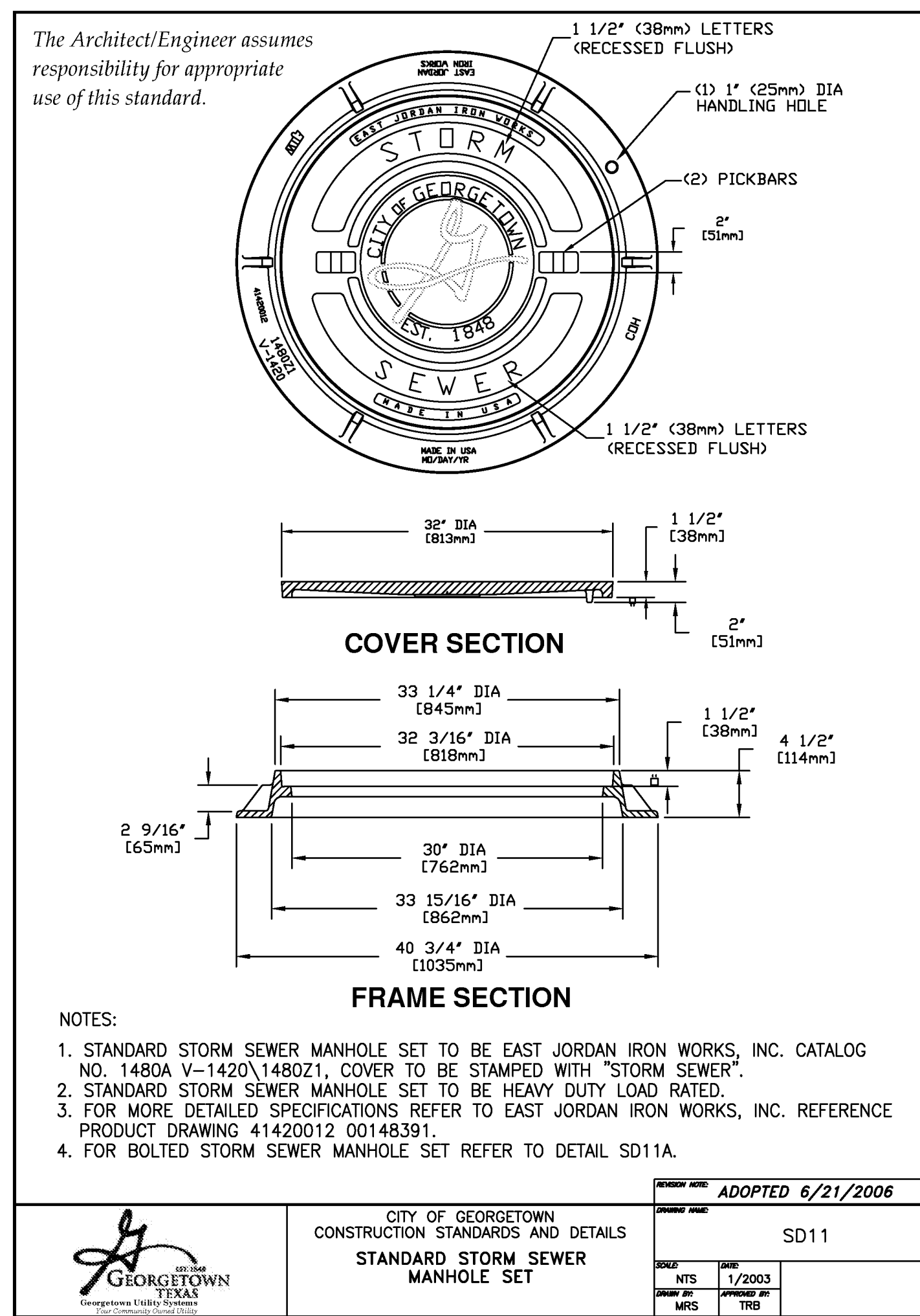


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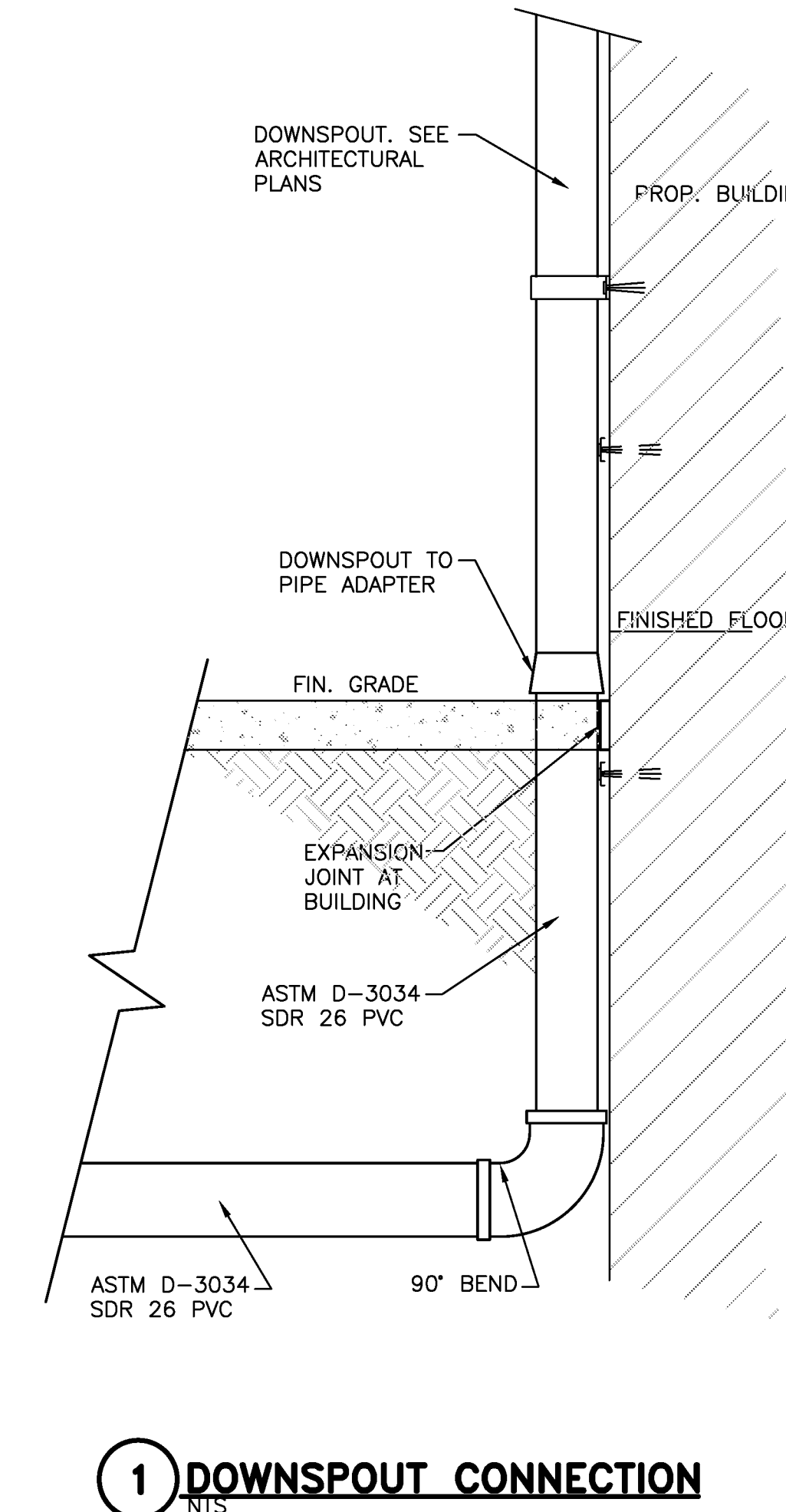
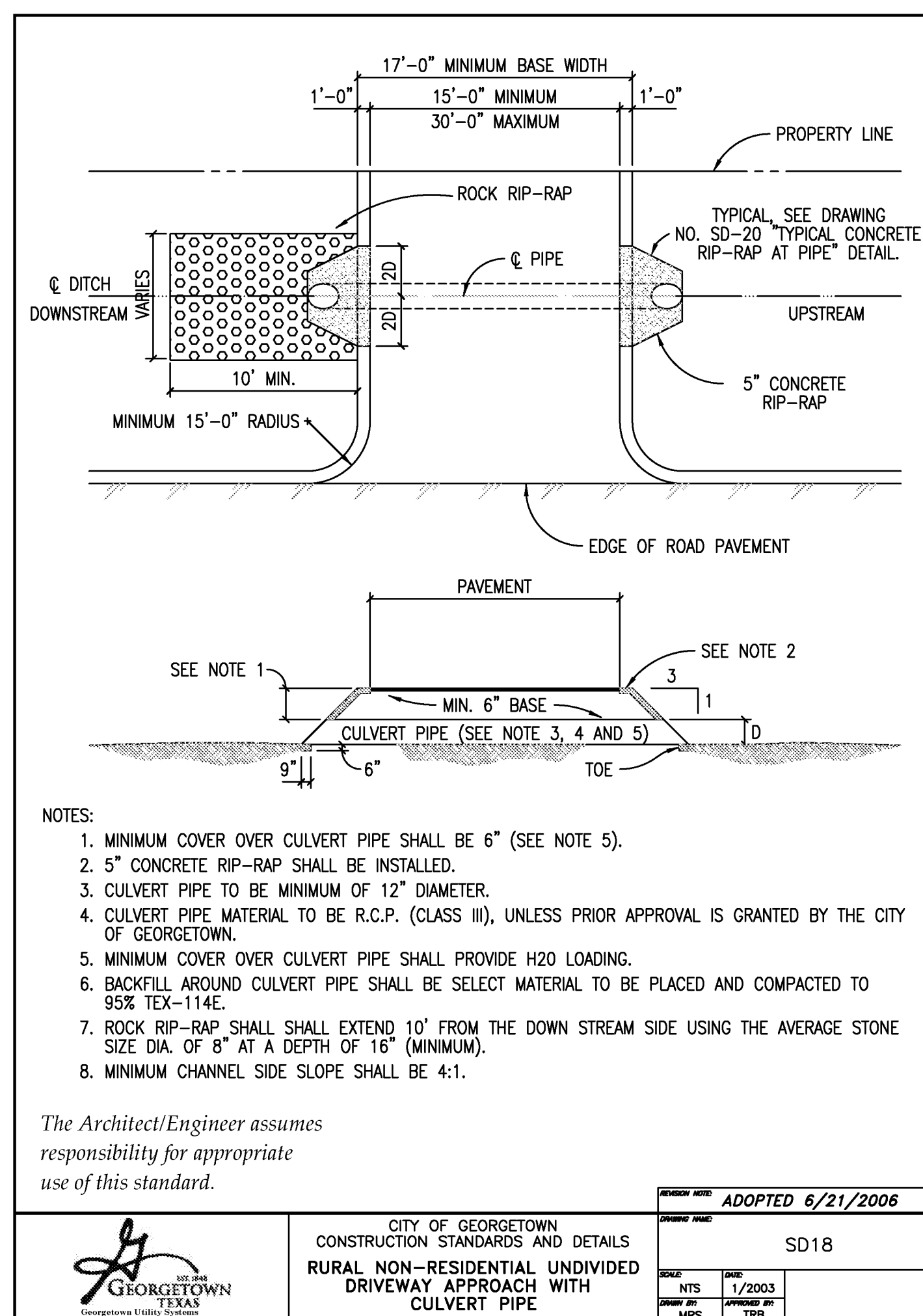
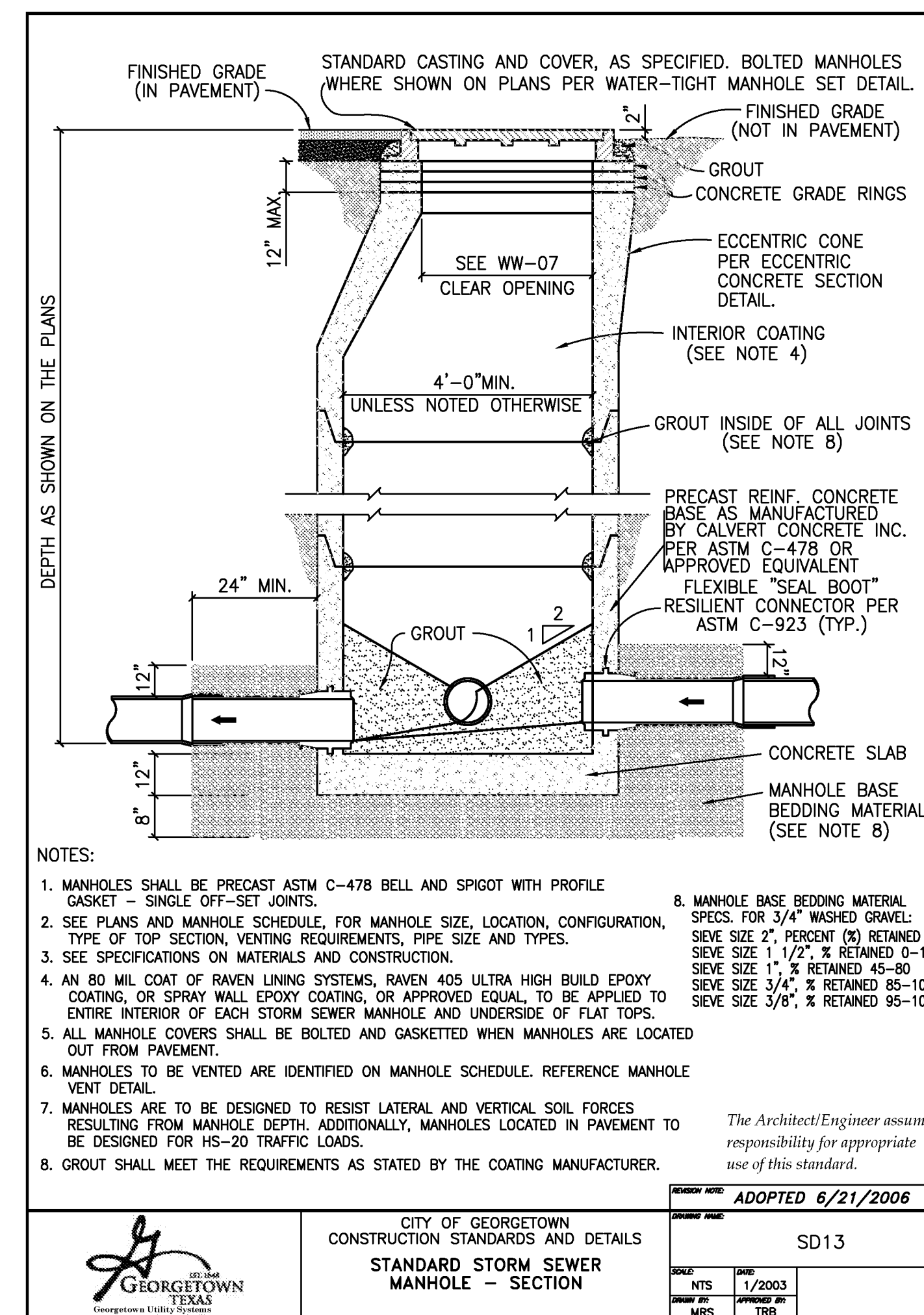
CITY OF GEORGETOWN
 GEORGETOWN FIRE STATION No. 6
 4700 R. M. 2338
 GEORGETOWN, TX, 78626

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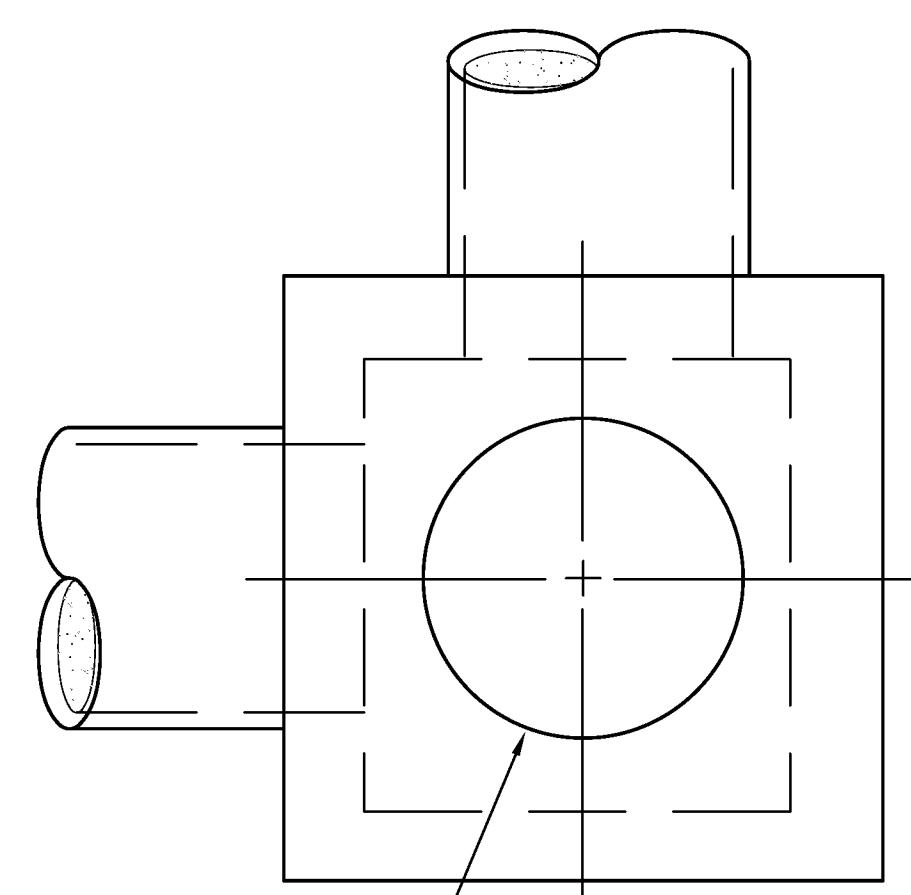
C6.1
 STREET & ROADWAY
 DETAILS II



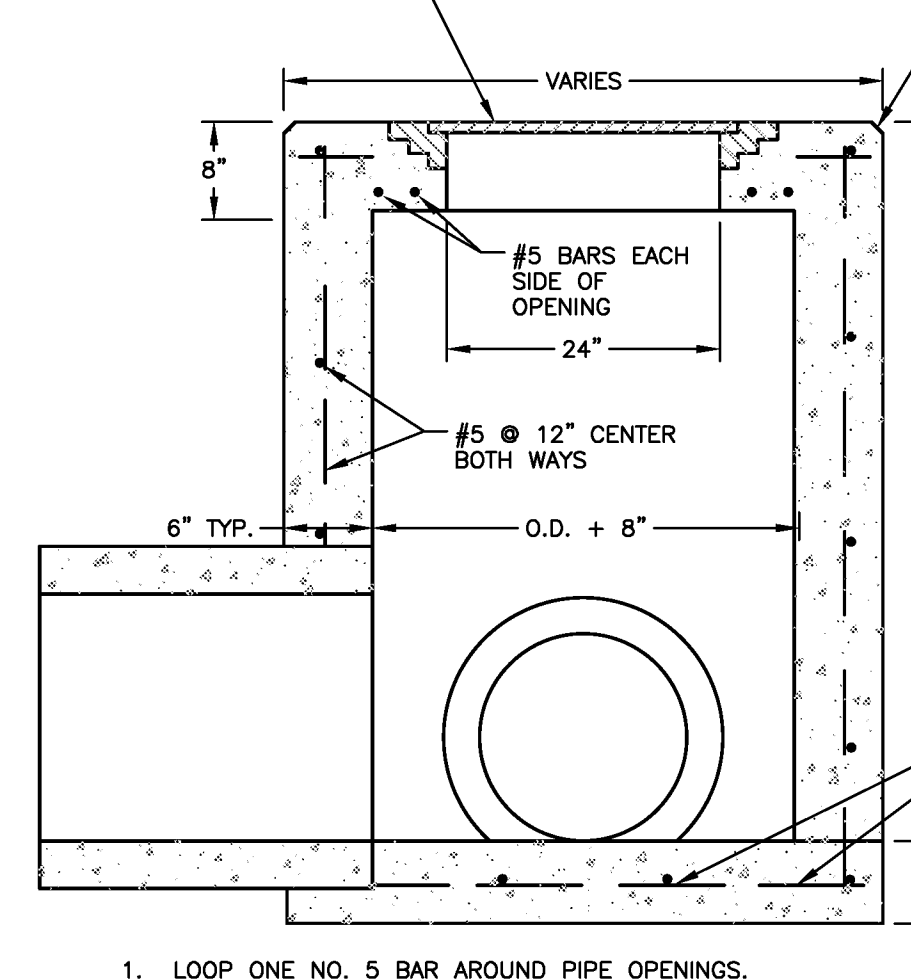
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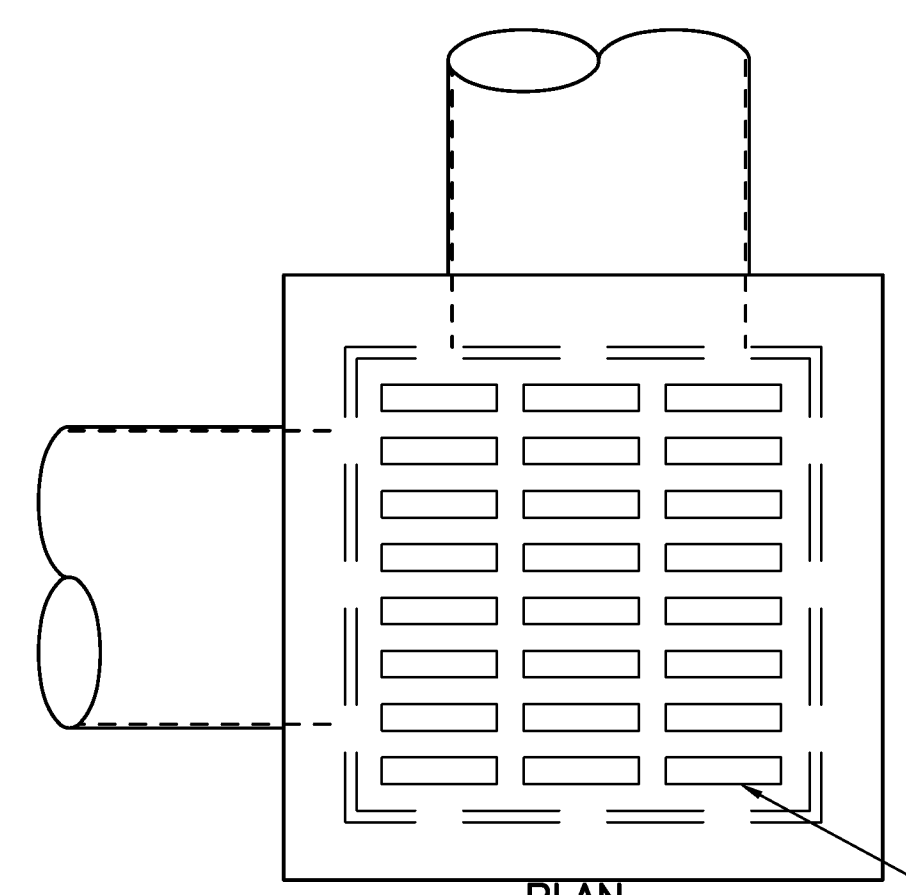


NEENAH R-6142 MANHOLE FRAME AND COVER, OR APPROVED EQUAL.

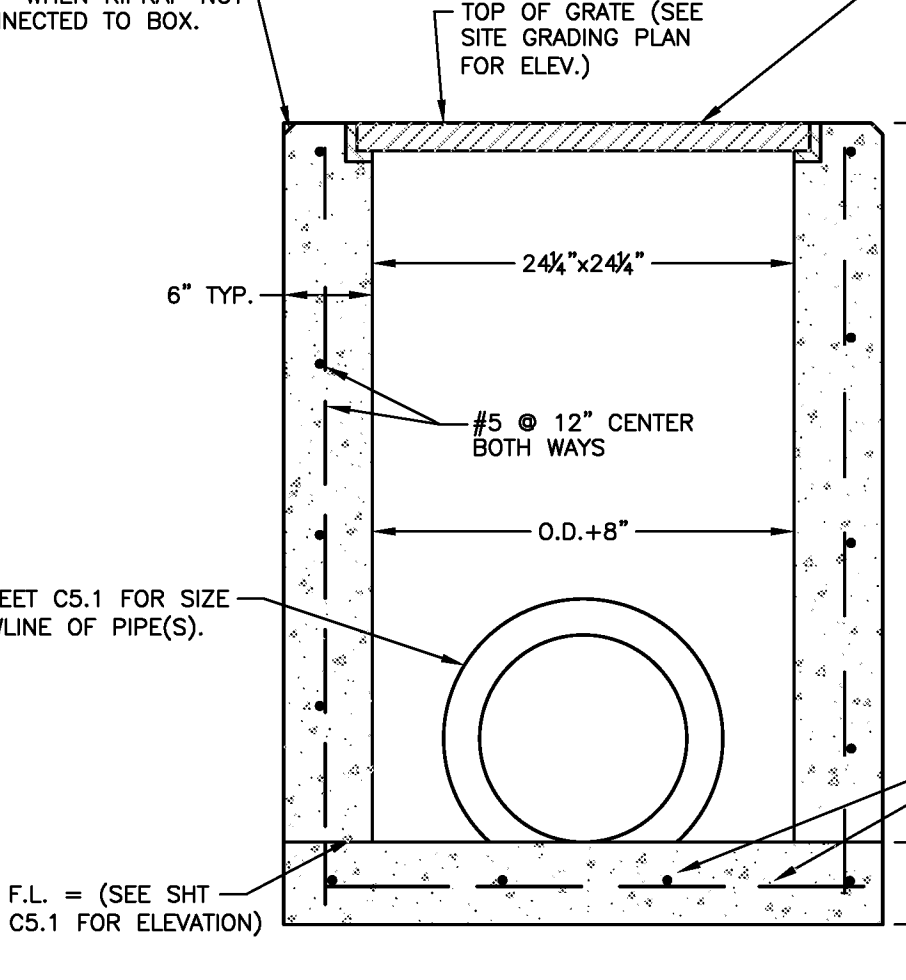


1. LOOP ONE NO. 5 BAR AROUND PIPE OPENINGS.
2. ALL LAPS AND EXTENSIONS OF REINFORCEMENT BARS TO BE 27" IN DIAMETER.

1 JUNCTION BOX
NTS

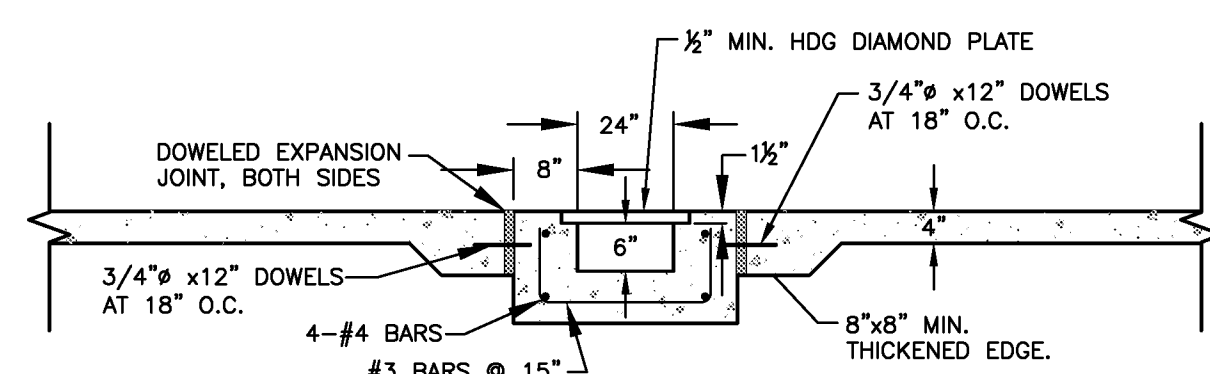


24" X 24" GRATE INLET NEENAH PART NO. R-4820 TYPE "C" GRATE & ANGLE FRAME OR APPROVED EQUAL.

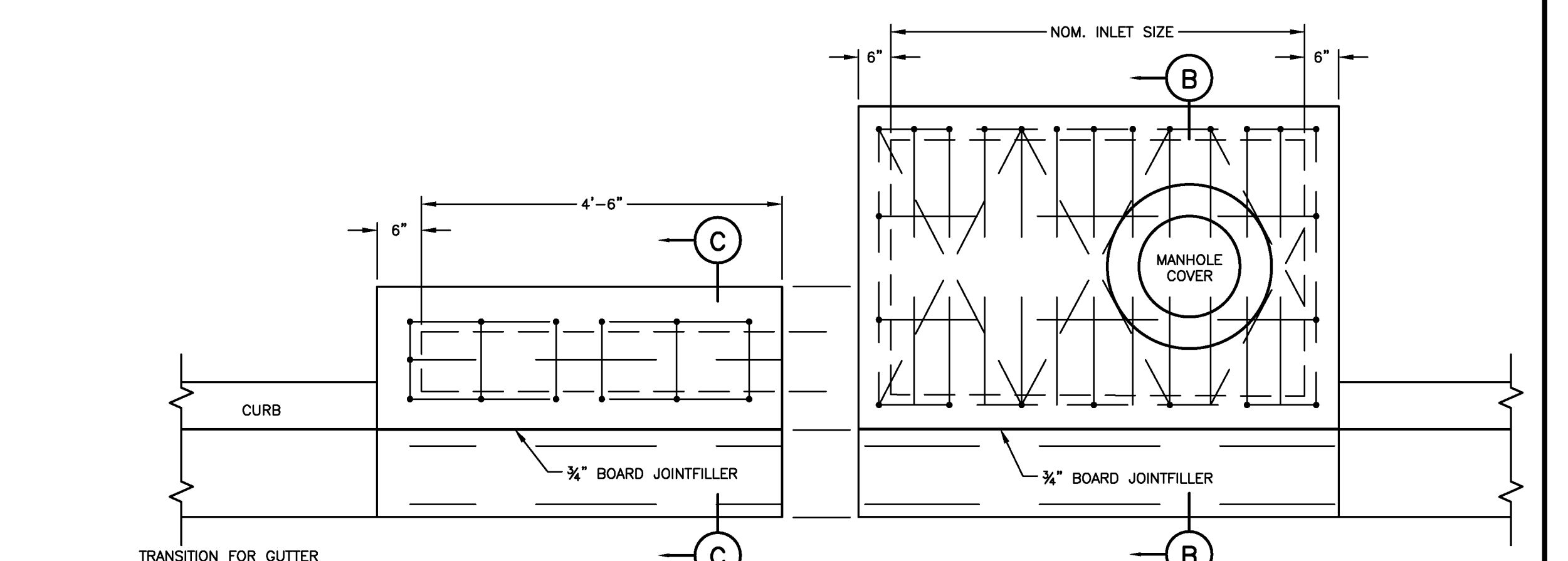


1. LOOP ONE NO. 5 BAR AROUND PIPE OPENINGS.
2. ALL LAPS AND EXTENSIONS OF REINFORCEMENT BARS TO BE 27" IN DIAMETER.

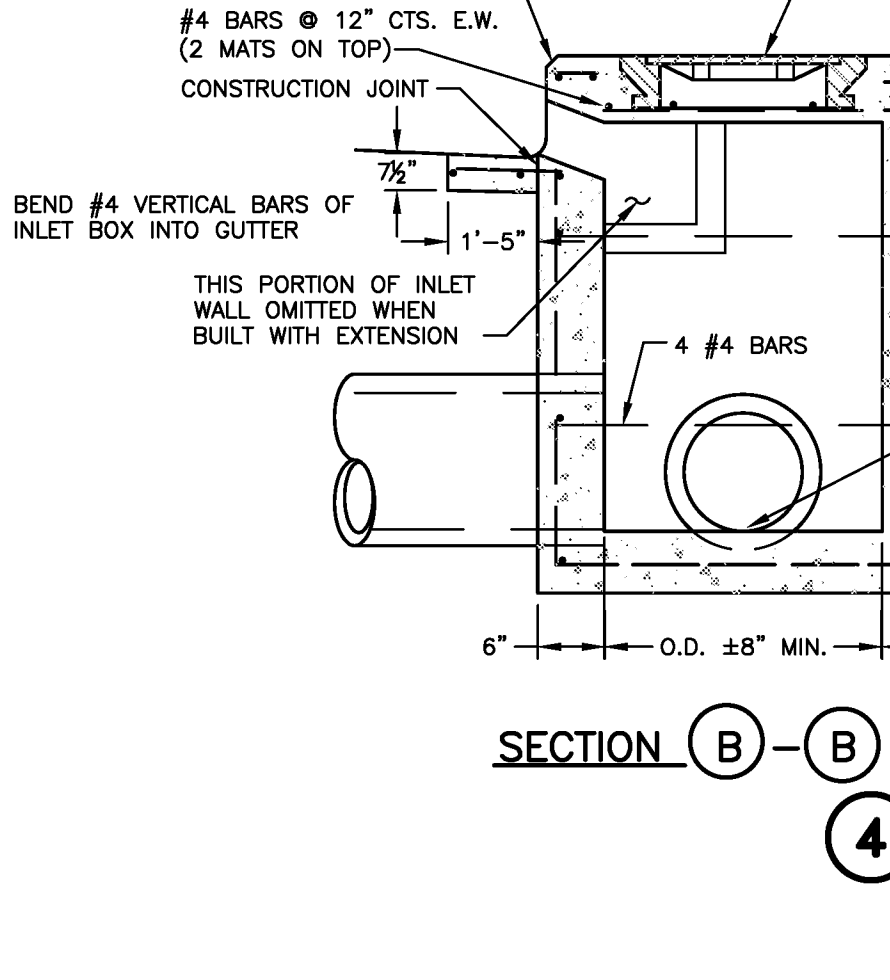
2 TYPICAL AREA INLET
NTS



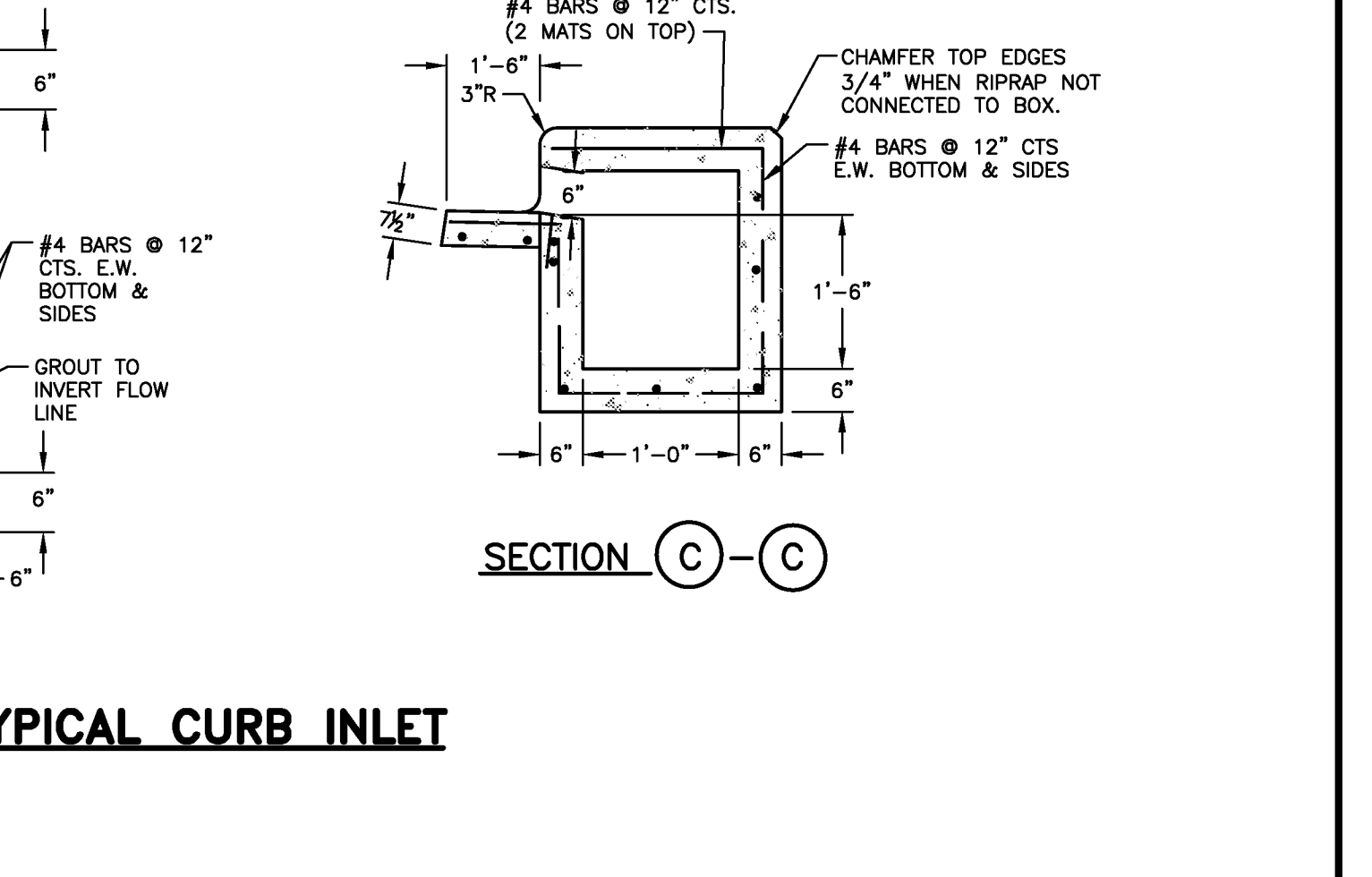
3 PLATED TRENCH SIDEWALK DRAIN
NTS



TRANSITION FOR GUTTER DEPRESSION UPSTREAM 3'-0" PER 1" DEPRESSION



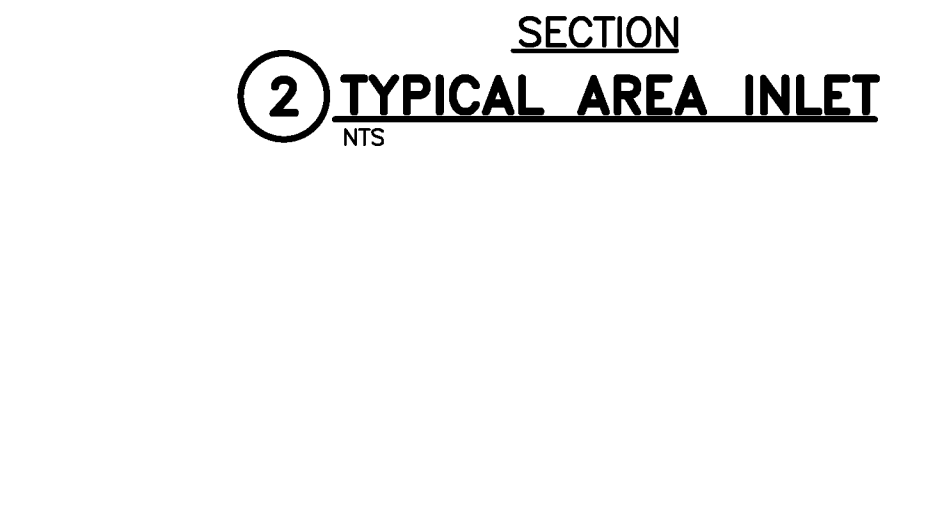
4 TYPICAL CURB INLET



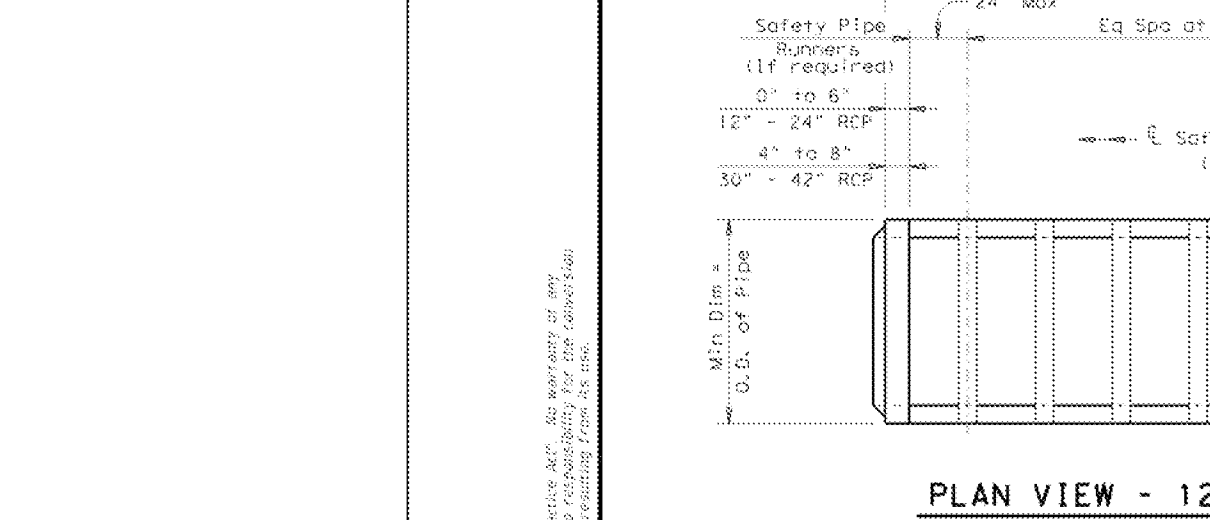
5 LEVEL SPREADER DETAIL
NTS



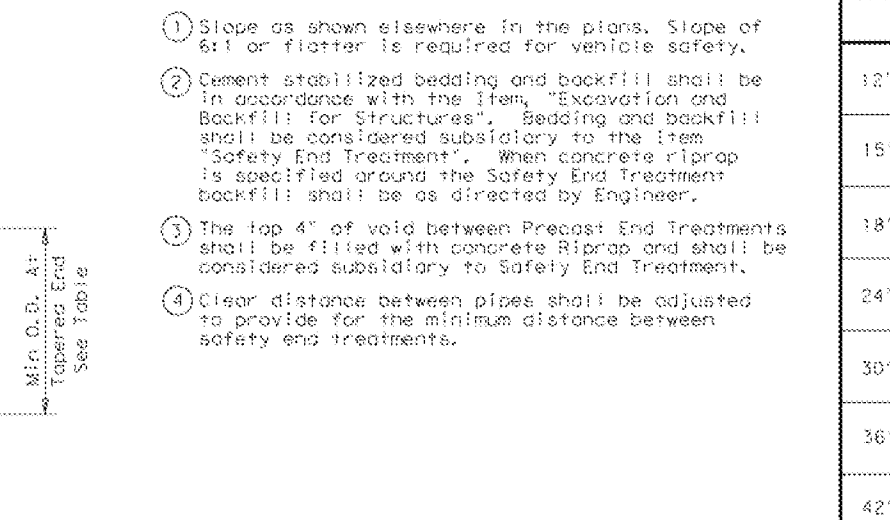
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2 TYPICAL AREA INLET
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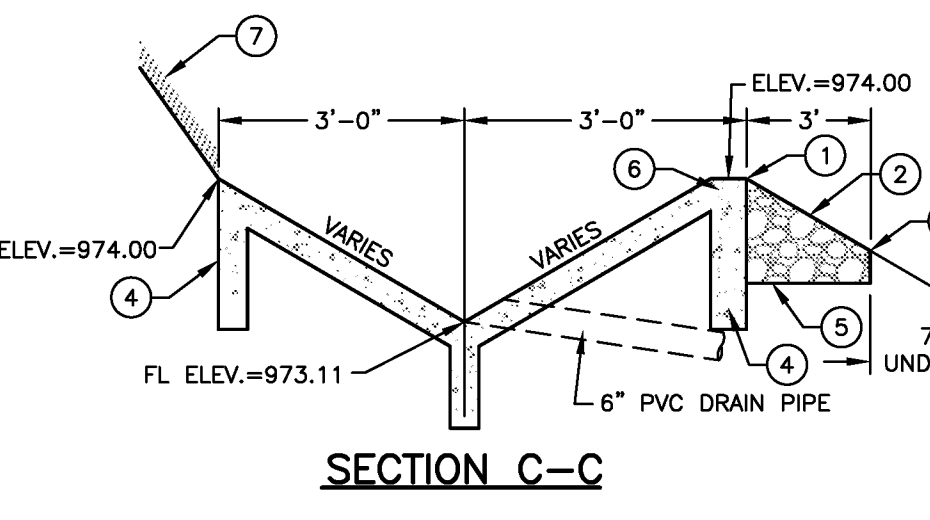
3 PLATED TRENCH SIDEWALK DRAIN
NTS



4 TYPICAL CURB INLET

PIPE I.D.	MINIMUM WALL THICKNESS	MINIMUM D.O.	MIN. D.O. AT TANKED END	MIN. REINF. REQUIREMENTS	MAXIMUM SLOPE	MINIMUM LENGTH OF UNIT	PIPE RUNNER REQUIRED	REQUIRED PIPE RUNNER SIZES
							SINGLE PIPE	MULTIPLE PIPE
								MINIMUM D.I.A. O.D. I.D.
12"	2"	16"	16"	0.07 CIRC.	6:1	4'-0"	No	Yes, for 3" STD 3,500' 3,068"
15"	2 1/2"	19 1/2"	19"	0.07 CIRC.	6:1	5'-0"	Yes, for 3" STD 3,500' 3,068"	
18"	2 1/2"	25"	21 1/2"	0.07 CIRC.	6:1	7'-0"	Yes, for 3" STD 3,500' 3,068"	
24"	3"	36"	27"	0.07 CIRC.	6:1	10'-0"	Yes, for 3" STD 3,500' 3,068"	
30"	3 1/2"	51"	31"	0.18 CIRC.	6:1	12'-11"	Yes	4" STD 4,500' 4,026"
36"	4"	66"	36"	0.19 ELIP.	6:1	15'-4"	Yes	4" STD 4,500' 4,026"
42"	4 1/2"	81"	41 1/2"	0.23 ELIP.	6:1	18'-1"	Yes	4" STD 4,500' 4,026"

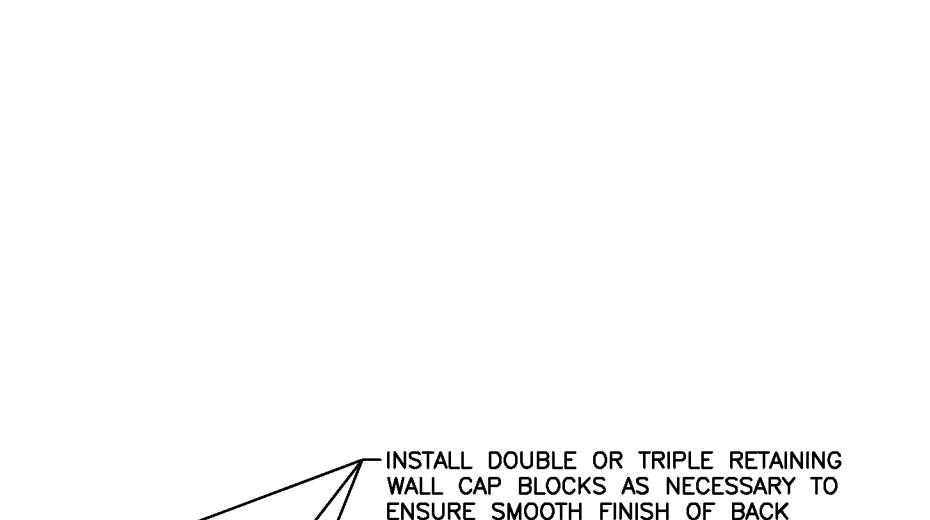
GENERAL NOTES:
 Precast safety end treatment for reinforced concrete pipe may be used for TYPE II and treatment as specified in Item Safety End Treatment. When Precast Safety End Treatment is used as a contractor, a separate plan shall be provided. Risers will not be required unless noted otherwise on the plans.
 All concrete risers listed on the "Risers for Concrete Manhole Production List (MPL)" may be used in lieu of steel reinforcing in riprap concrete unless noted otherwise.
 All precast concrete and sections shall be manufactured in accordance with Item Reinforced Concrete Pipe and in accordance with ASTM Standard Specification for Concrete Pipe and in accordance with Item Safety End Treatment. All precast concrete sections shall be precast in a shop or yard and shall be stored in a dry area to prevent moisture and other damage. Methods of lifting shall be provided by the manufacturer for ease of handling, unloading and installation.
 Pipe Runners shall conform to the requirements of ASTM A53 (Type E or S, Grade B), ASTM A500 (Grade B), or API 5L X42.
 All steel components except reinforcing, shall be galvanized after fabrication. Galvanizing damaged during transport or construction shall be repaired in accordance with the specifications.



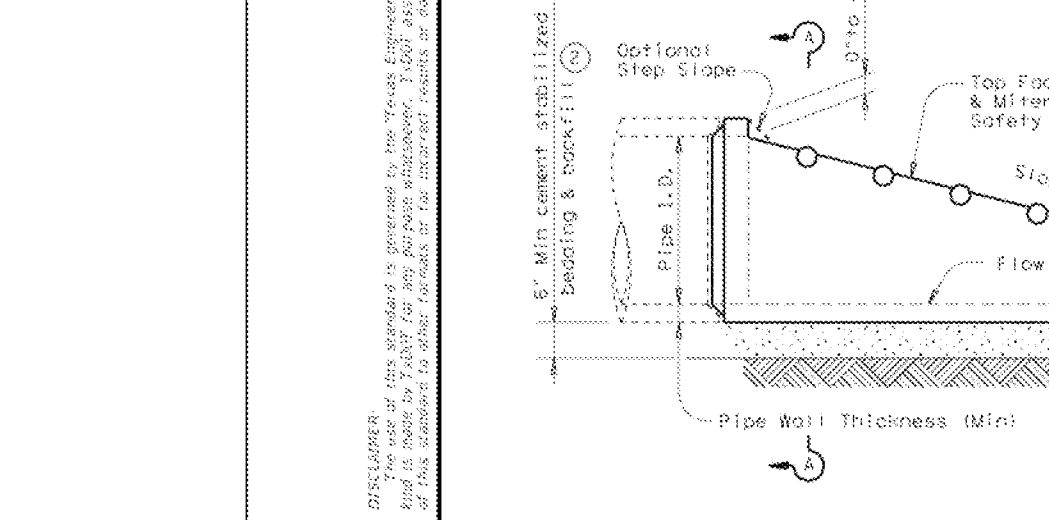
5 LEVEL SPREADER DETAIL
NTS



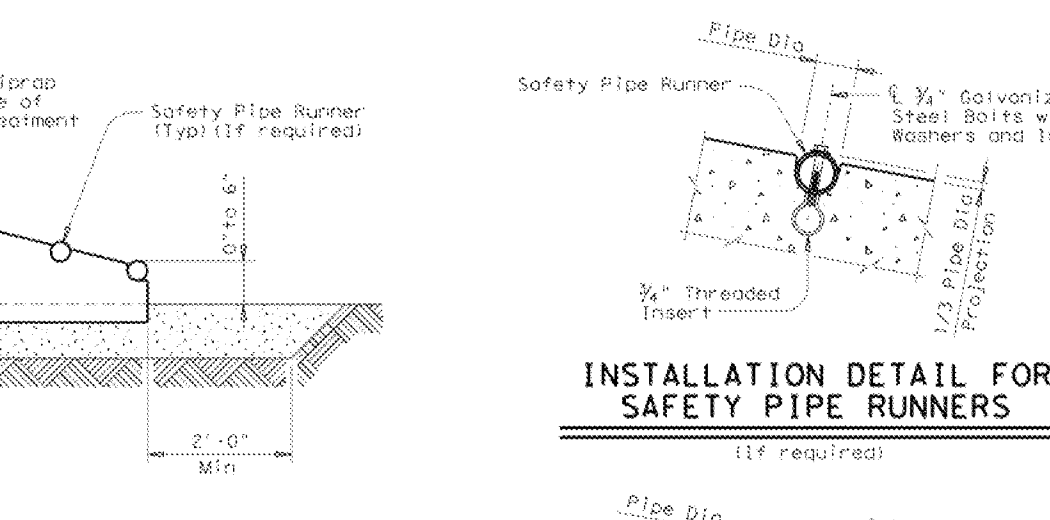
6 RESTRICTOR PLATE
NTS



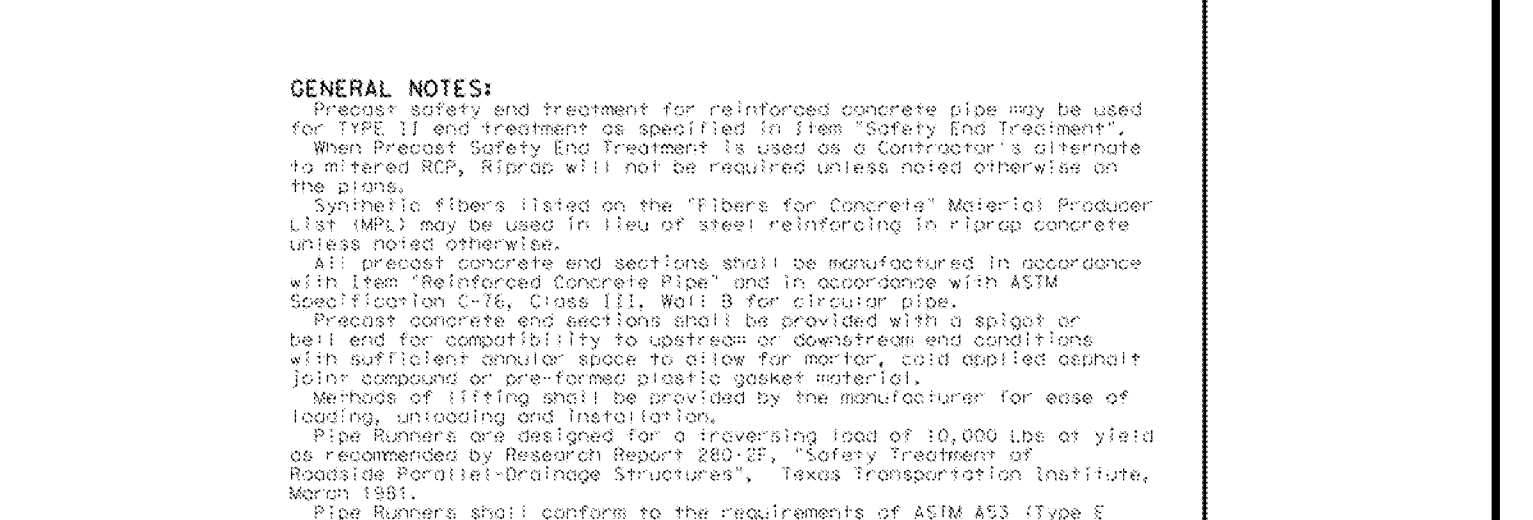
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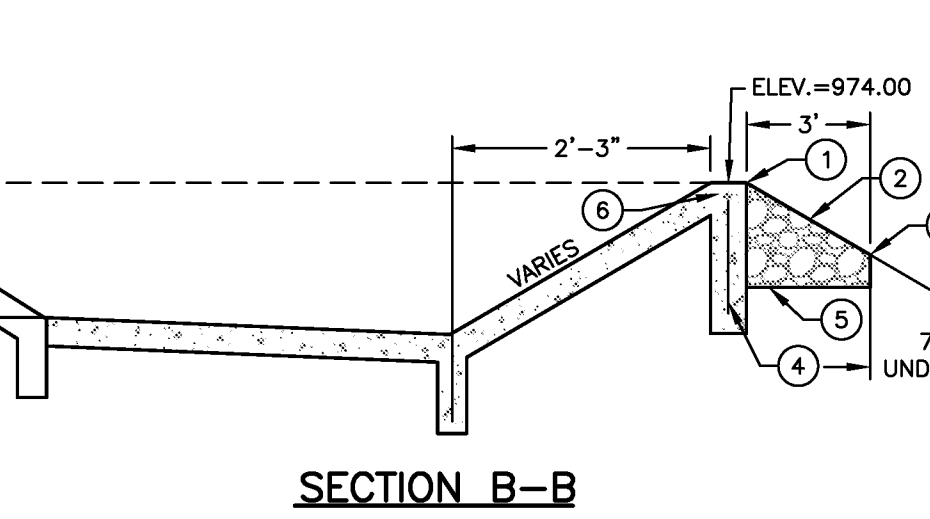
8 DOWNSPOUT CLEANOUT



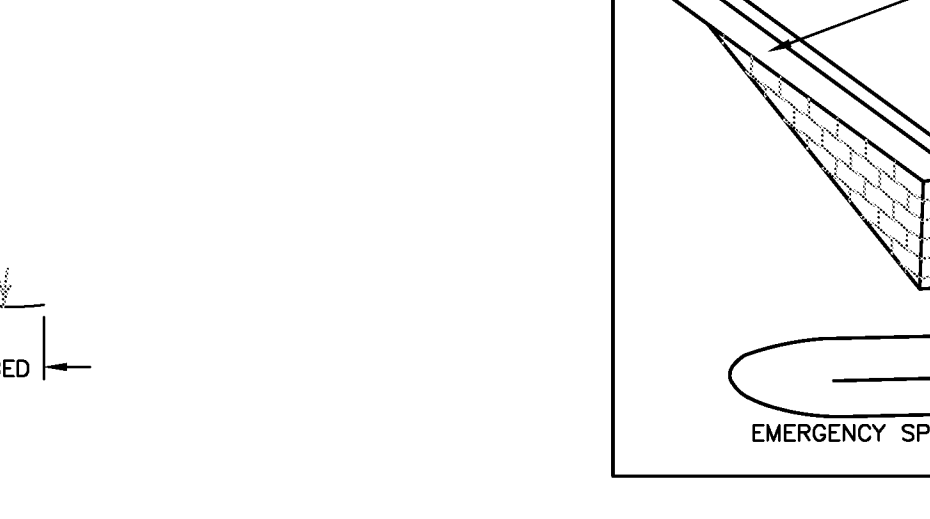
9 TRENCH LOCATED IN AREA WITH NEW PAVEMENT SECTION



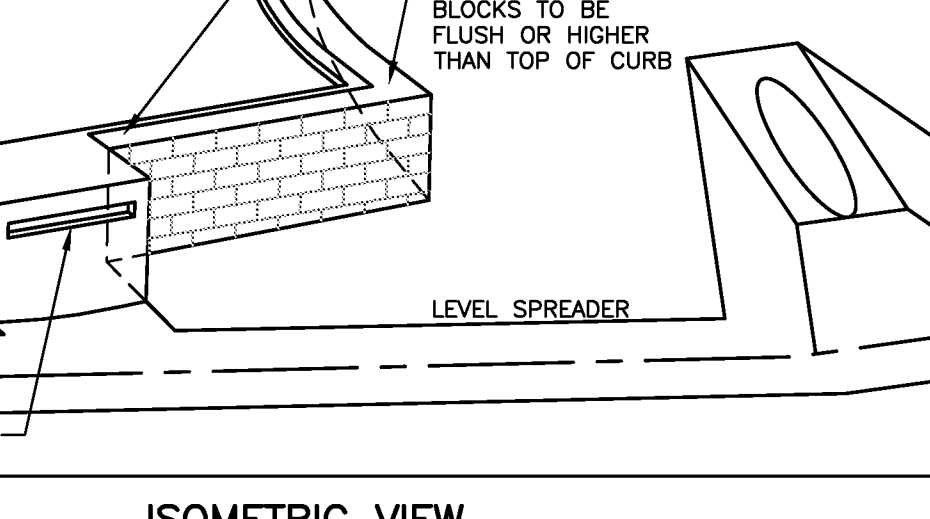
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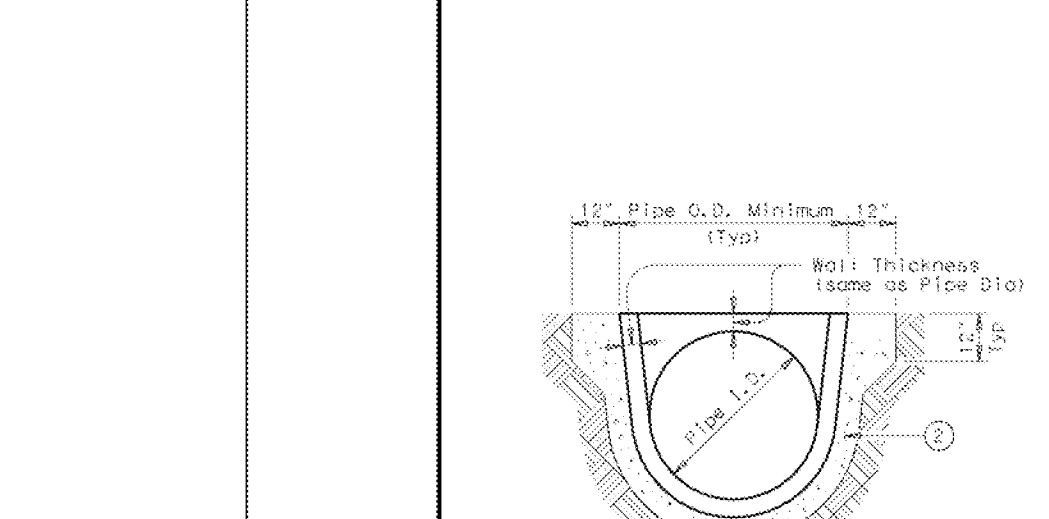
5 LEVEL SPREADER DETAIL
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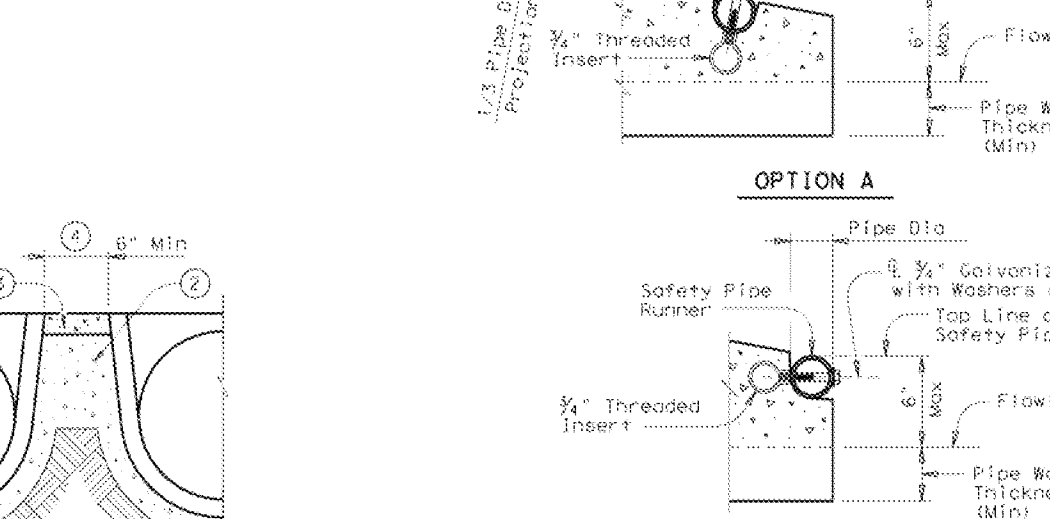
6 RESTRICTOR PLATE
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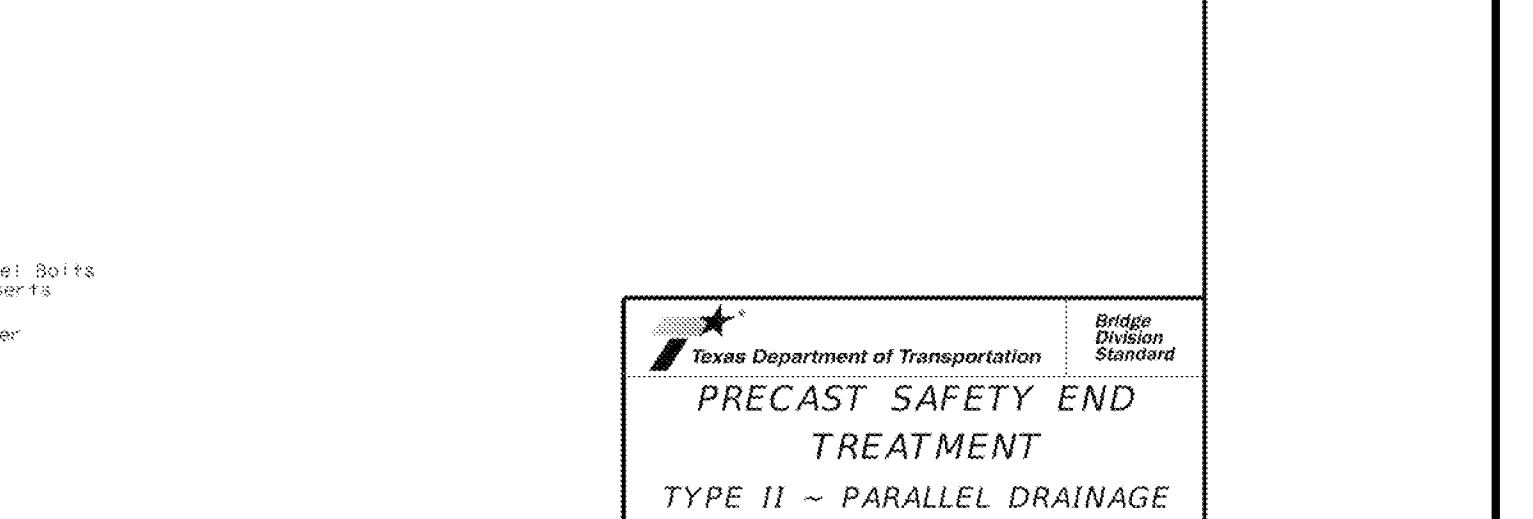
7 RESTRICTOR PLATE
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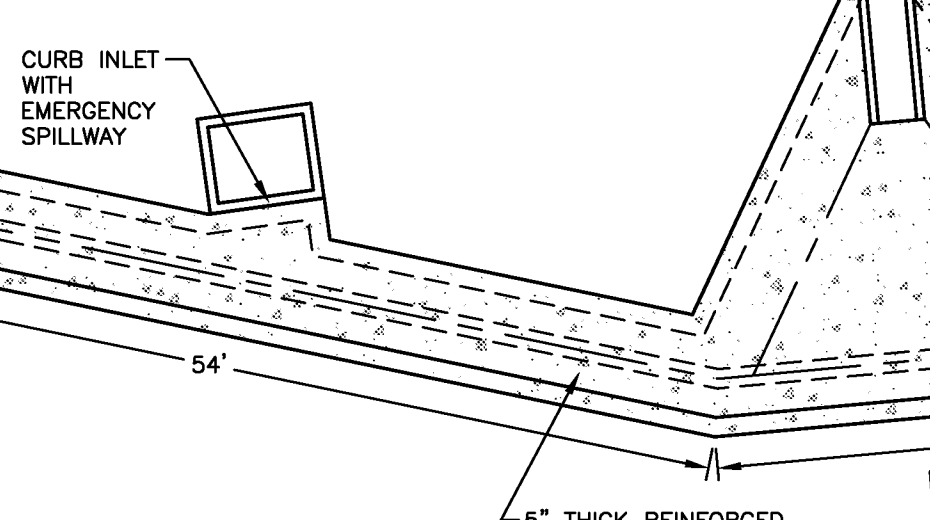
8 DOWNSPOUT CLEANOUT



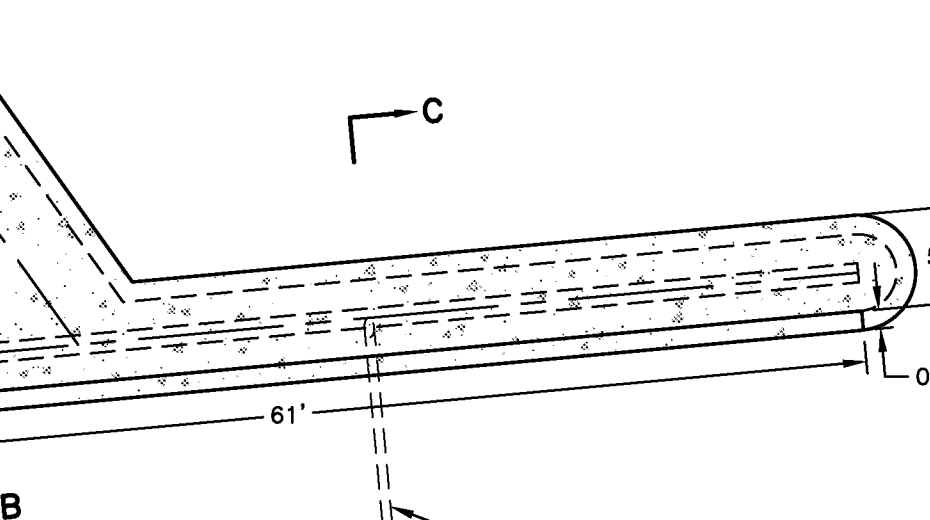
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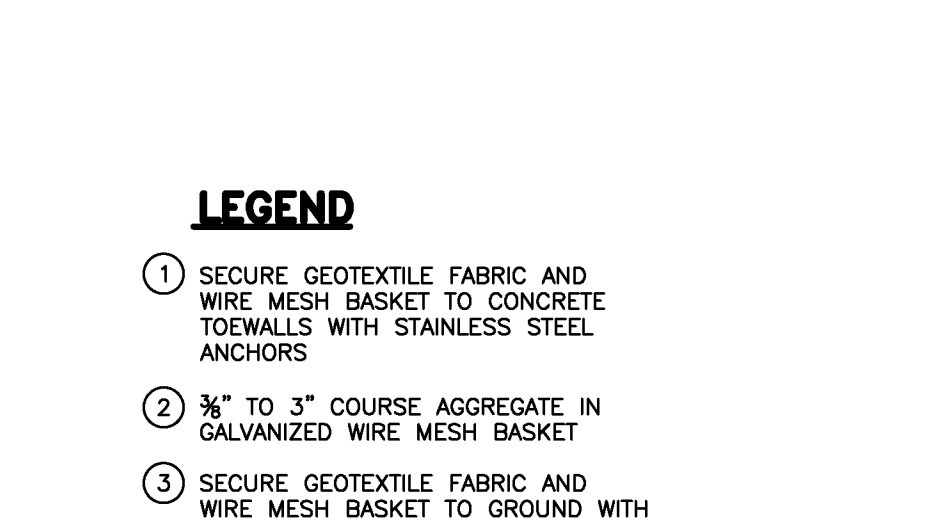
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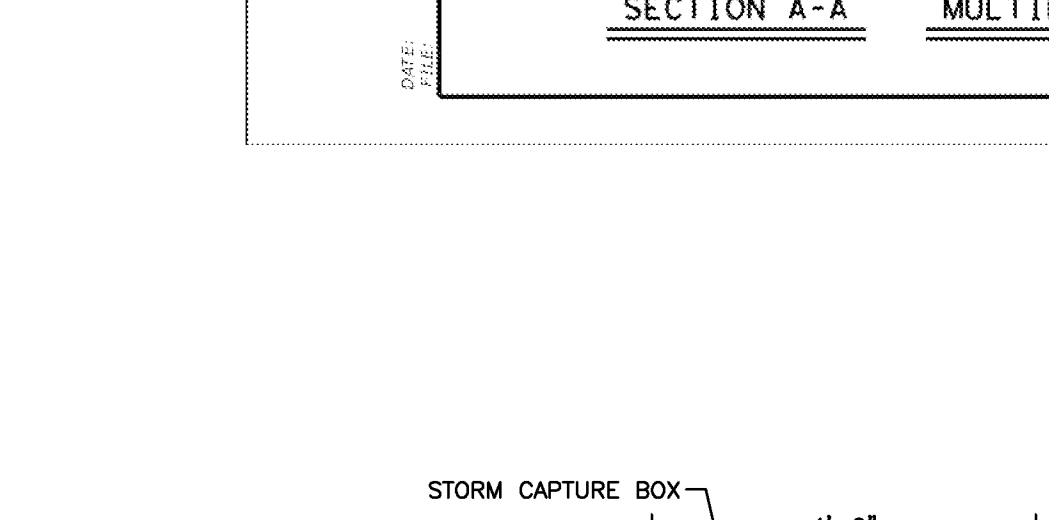
5 LEVEL SPREADER DETAIL
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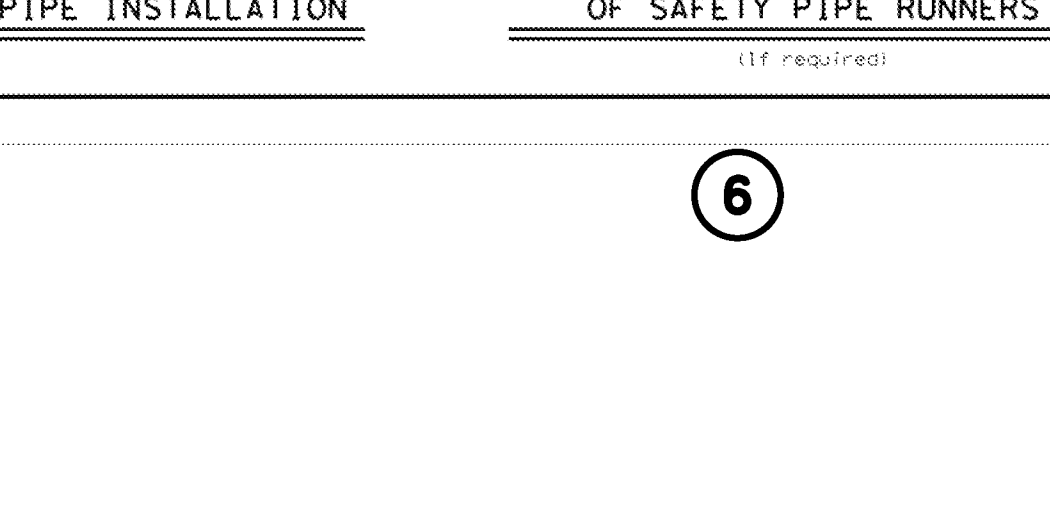
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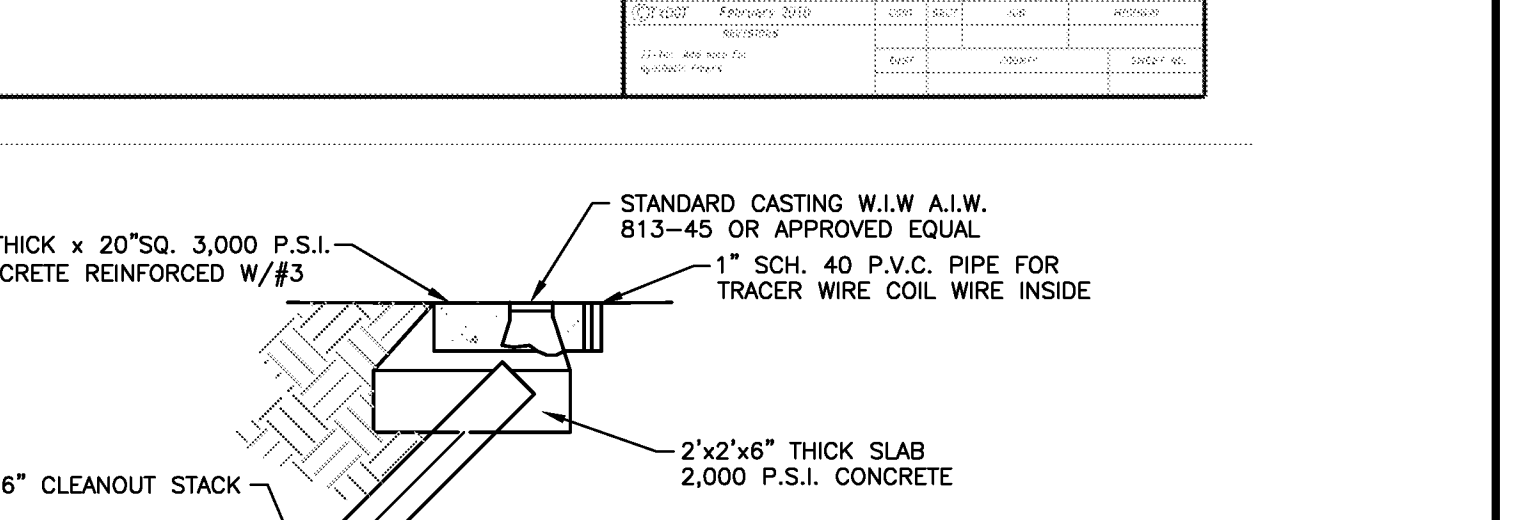
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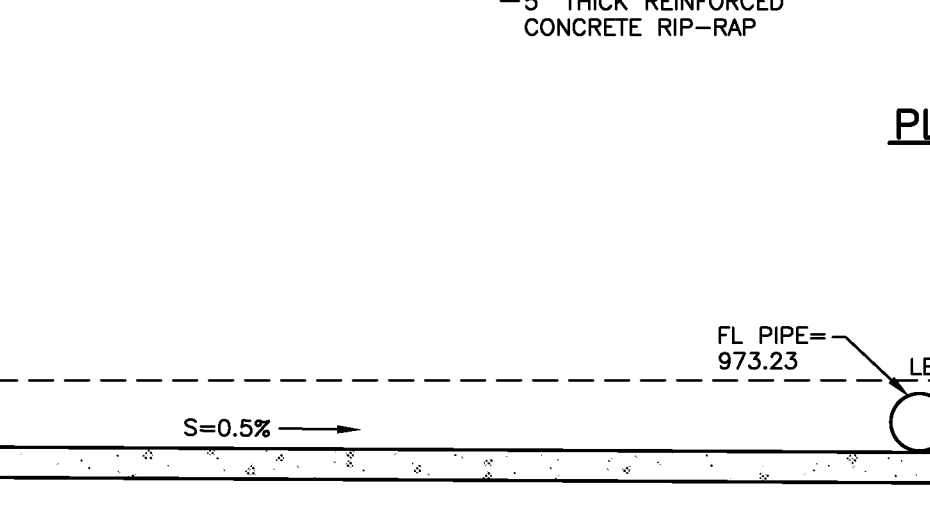
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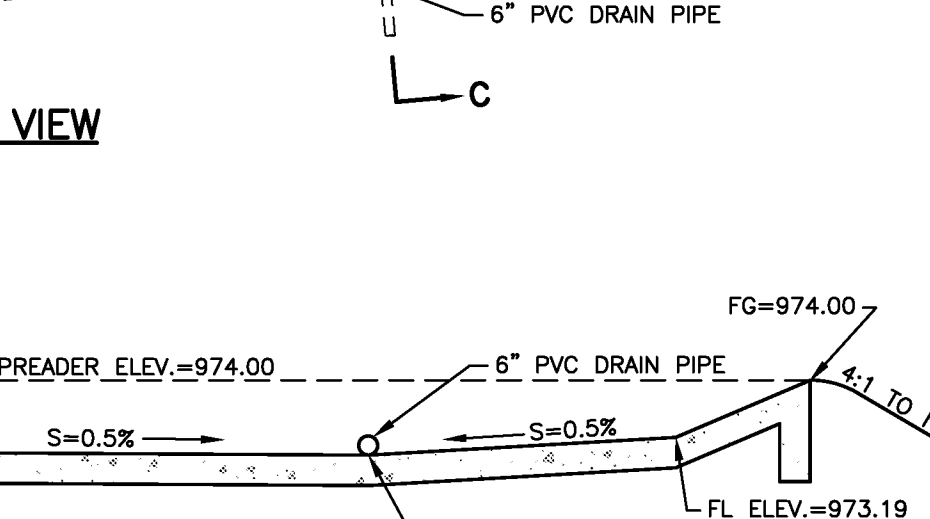
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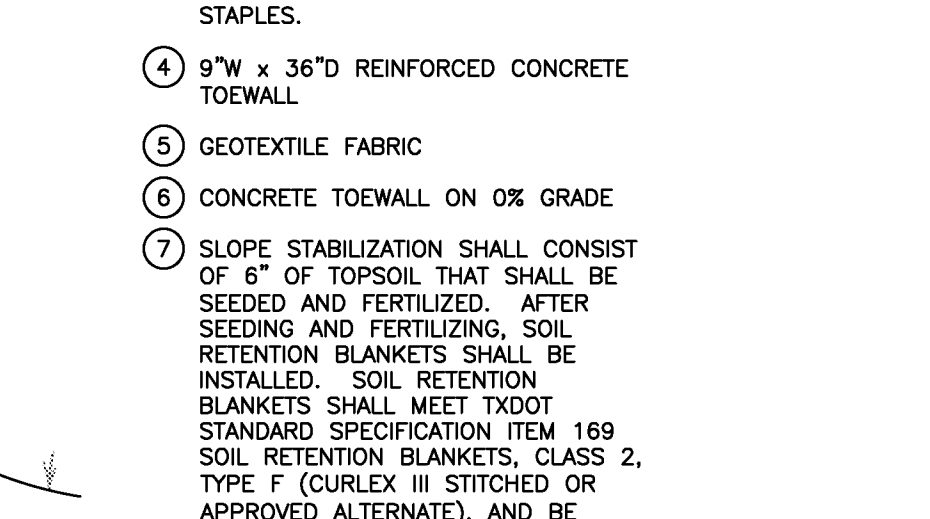
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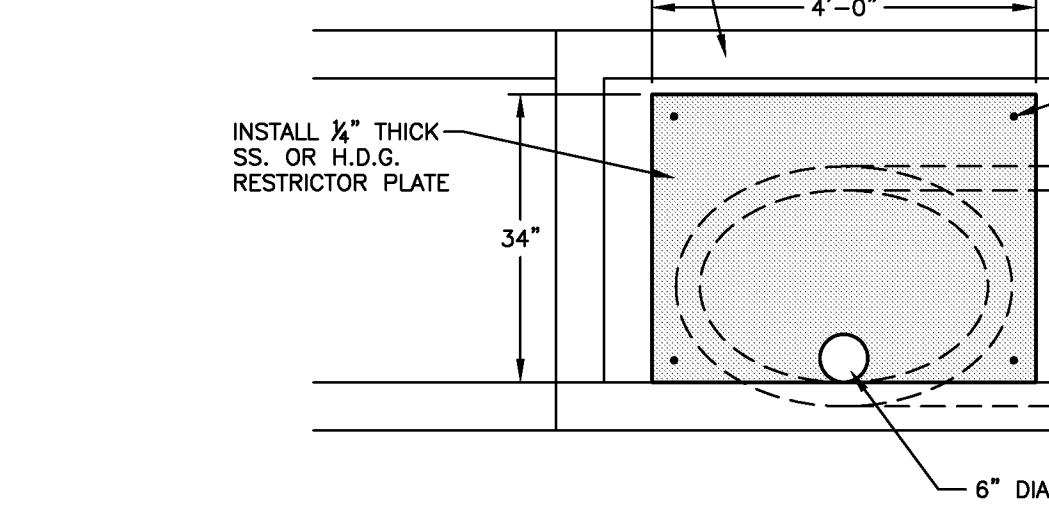
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NTS



6 RESTRICTOR PLATE
NTS



7 RESTRICTOR PLATE
NTS



8 DOWNSPOUT CLEANOUT



9 TRENCH LOCATED IN AREA WITH NEW PAVEMENT SECTION



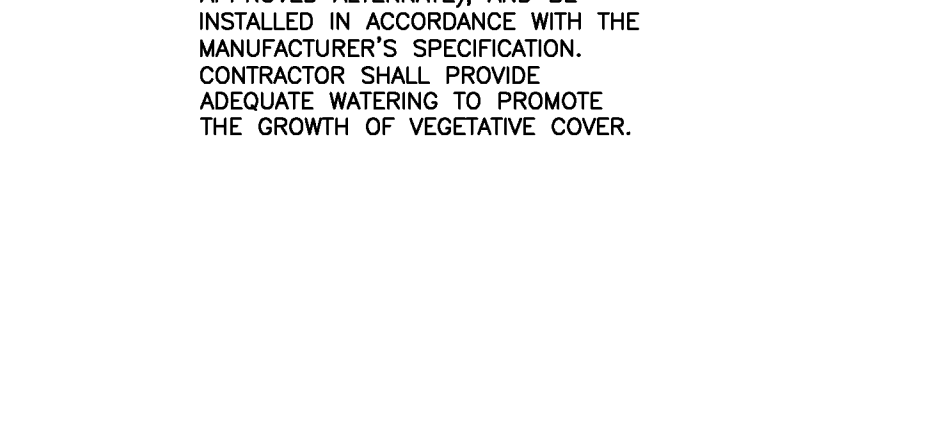
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5 LEVEL SPREADER DETAIL
NTS



6 RESTRICTOR PLATE
NTS



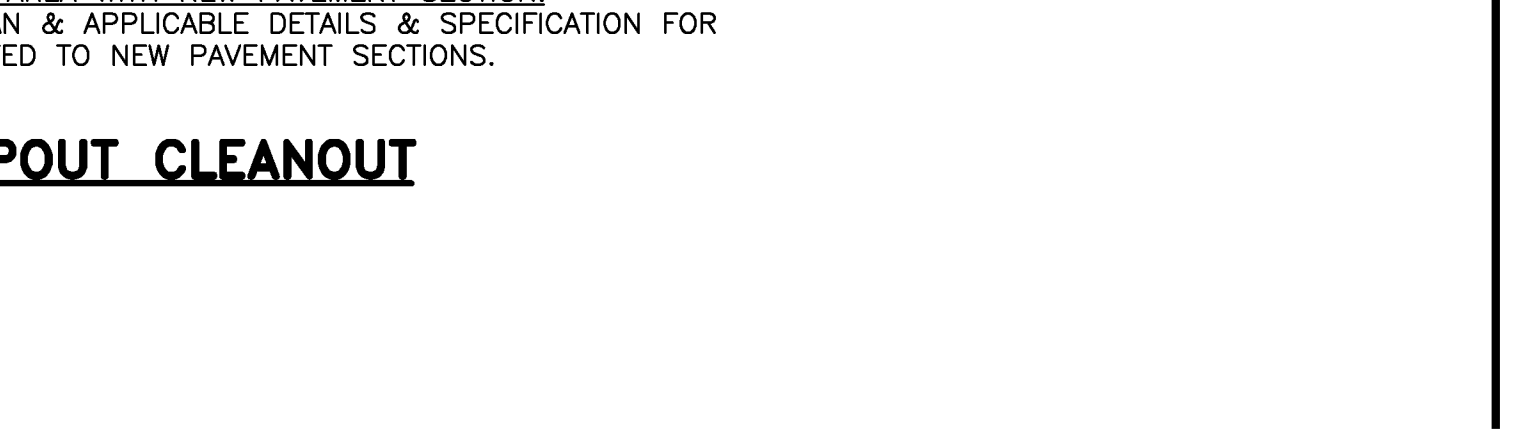
7 RESTRICTOR PLATE
NTS



8 DOWNSPOUT CLEANOUT



9 TRENCH LOCATED IN AREA WITH NEW PAVEMENT SECTION



10 TRENCH LOCATED IN AREA WITH NEW PAVEMENT SECTION

BROWN REYNOLDS WATFORD ARCHITECTS
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 HOUSTON, TEXAS 77045
 281.494.1791
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Robert C. Schmidt
 11/16/18

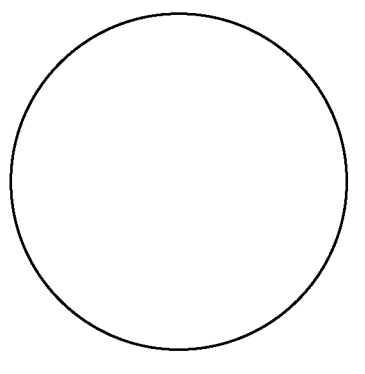
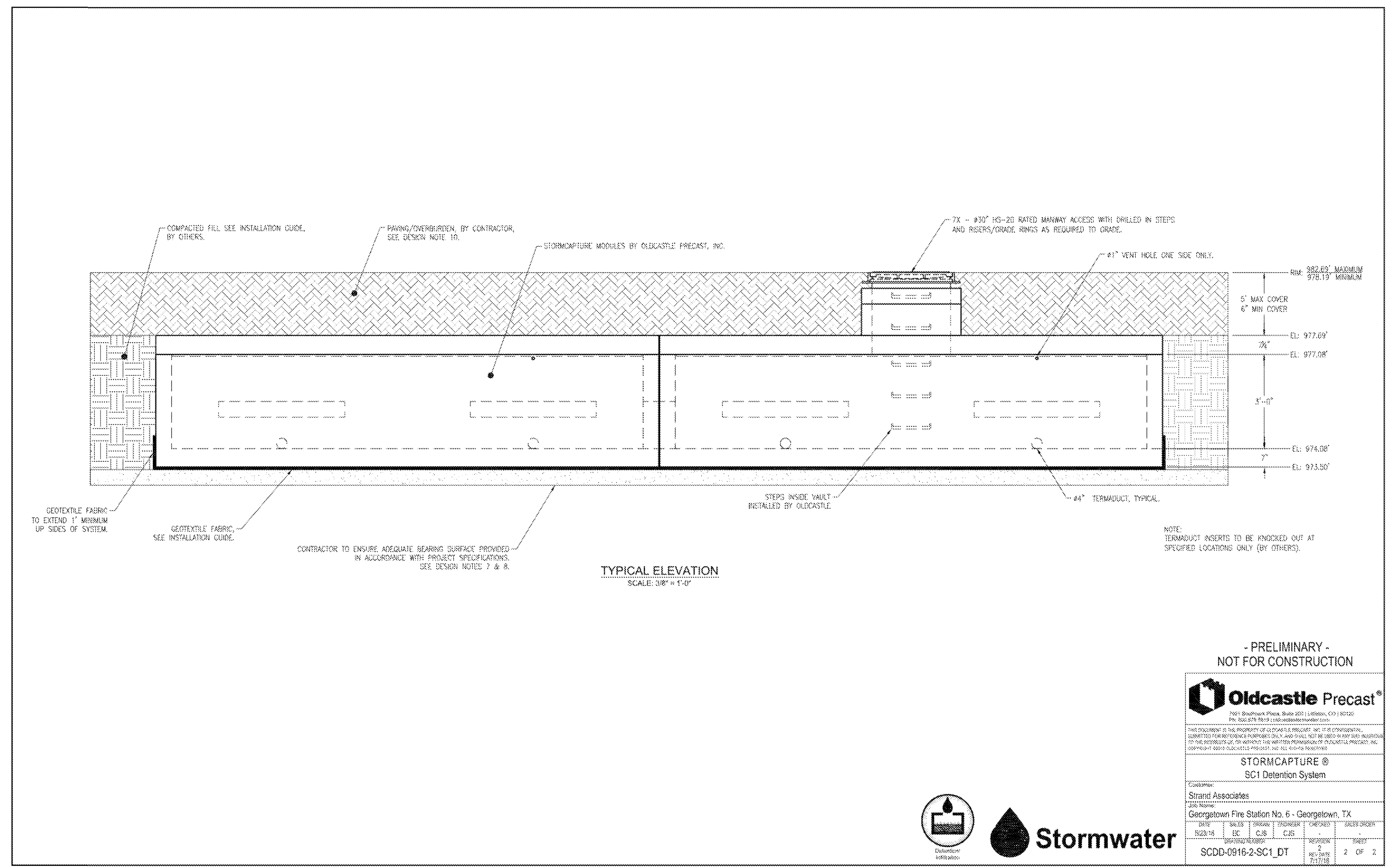
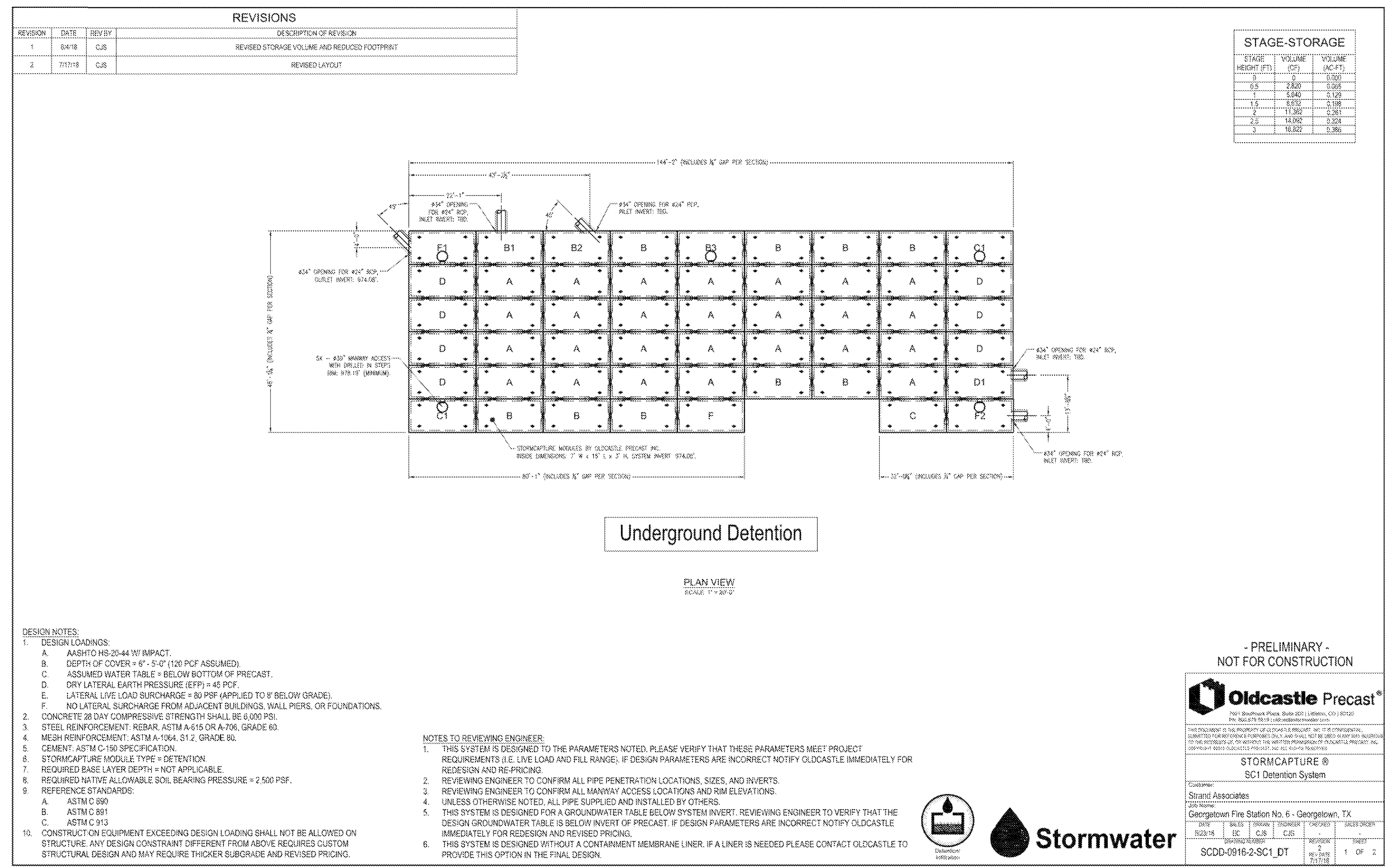
STRAND ASSOCIATES
 STRAND JOB # 3935.034

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 CHECKED BY Checker
 BRW PROJECT NUMBER 217079-00

CITY OF GEORGETOWN
 GEORGETOWN FIRE STATION No. 6
 6700 R.M. 2038
 GEORGETOWN, TX, 78626

NO.	REVISION	DATE

C8.1
 DRAINAGE DETAILS II



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CITY OF GEORGETOWN
GEORGETOWN FIRE STATION No. 6
4700 R. M. 2038
GEORGETOWN, TX, 78626

NO.	REVISION	DATE

C9.0

Contech Engineering Solutions Calculations for Texas Commission on Environmental Quality
TSS Removal Calculations

Project Name: Georgetown Fire Station No. 6
Date Prepared: 11/13/18

1. The Required Load Reduction for the total project:

Calculations from RD-348 Page 3-49 Equation 3.3: $L_d = T \cdot (A_p/A_c) \cdot P$
Page 3-47 to 3-50

Let: T = Required TSS removal resulting from the proposed development = 80% of increased load
 A_c = 84.00 acres in impervious area for the project
 P = Average annual precipitation, inches

Site Data: Determine Required Load Reduction Based on the Entire Project

Category	Williamson	acres
Total project area included in plan	2.18	acres
Predevelopment impervious area within the limits of the plan	0.00	acres
Total post-development impervious area within the limits of the plan	0.00	acres
Total post-development impervious cover fraction	0.00	
L_d (lb./year)	0.00	lb./year
Number of drainage basins / outfalls areas having the plan area	1	

2. Drainage Basin Parameters (This information should be provided for each basin):

Drainage Basin/Outfall Area No.	Ac	Acres
1	0.00	acres
Predevelopment impervious area within drainage basin/outfall area	0.00	acres
Total post-development impervious area within drainage basin/outfall area	0.00	acres
Post-development impervious cover fraction within drainage basin/outfall area	0.00	
L_d (lb./year)	0.00	lb./year

3. Indicate the assumed BMP Code for this basin:

Proposed BMP	Removal efficiency	Efficiency
2F	86	subvention percent

4. Calculate Maximum TSS Load Removed (L_d) for this Drainage Basin by the selected BMP Type:

RD-348 Page 3-51 Equation 3.7
 $L_d = (BMP\ Efficiency) \cdot T \cdot (A_p/A_c) \cdot P$

Category	Williamson	acres
Total project area included in plan	2.18	acres
Predevelopment impervious area within the limits of the plan	0.00	acres
Total post-development impervious area within the limits of the plan	0.00	acres
Total post-development impervious cover fraction	0.00	
L_d (lb./year)	0.00	lb./year

5. Calculate Fraction of Annual Runoff to Treat the drainage basin / outfall area:

Category	Williamson	acres
Total project area included in plan	2.18	acres
Predevelopment impervious area within the limits of the plan	0.00	acres
Total post-development impervious area within the limits of the plan	0.00	acres
Total post-development impervious cover fraction	0.00	
L_d (lb./year)	0.00	lb./year

6. Calculate Treated Flow required by the BMP Type for this drainage basin / outfall area:

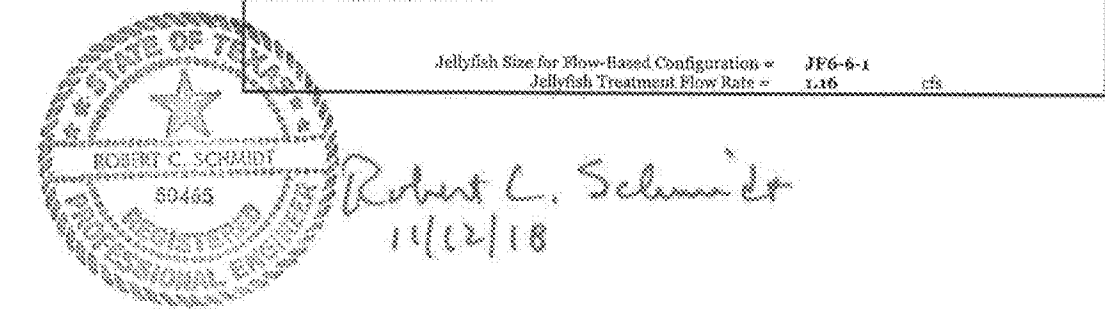
Category	Williamson	acres
Total project area included in plan	2.18	acres
Predevelopment impervious area within the limits of the plan	0.00	acres
Total post-development impervious area within the limits of the plan	0.00	acres
Total post-development impervious cover fraction	0.00	
L_d (lb./year)	0.00	lb./year

7. Jellyfish

Designed as Required in RD-348 Section 3-2.2

Through Jellyfish Unit

Jellyfish Size for Flow-Based Configuration = PFG-4
 Jellyfish Treatment Flow Rate = 1.48 cfs



Contech Engineering Solutions Calculations for Texas Commission on Environmental Quality
TSS Removal Calculations

Project Name: Georgetown Fire Station No. 6
Date Prepared: 11/13/18

1. The Required Load Reduction for the total project:

Calculations from RD-348 Page 3-49 Equation 3.3: $L_d = T \cdot (A_p/A_c) \cdot P$
Page 3-47 to 3-50

Let: T = Required TSS removal resulting from the proposed development = 80% of increased load
 A_c = 84.00 acres in impervious area for the project
 P = Average annual precipitation, inches

Site Data: Determine Required Load Reduction Based on the Entire Project

Category	Williamson	acres
Total project area included in plan	2.18	acres
Predevelopment impervious area within the limits of the plan	0.00	acres
Total post-development impervious area within the limits of the plan	0.00	acres
Total post-development impervious cover fraction	0.00	
L_d (lb./year)	0.00	lb./year
Number of drainage basins / outfalls areas having the plan area	1	

2. Drainage Basin Parameters (This information should be provided for each basin):

Drainage Basin/Outfall Area No.	Ac	Acres
1	0.00	acres
Predevelopment impervious area within drainage basin/outfall area	0.00	acres
Total post-development impervious area within drainage basin/outfall area	0.00	acres
Post-development impervious cover fraction within drainage basin/outfall area	0.00	
L_d (lb./year)	0.00	lb./year

3. Indicate the assumed BMP Code for this basin:

Proposed BMP	Removal efficiency	Efficiency
2F	86	subvention percent

4. Calculate Maximum TSS Load Removed (L_d) for this Drainage Basin by the selected BMP Type:

RD-348 Page 3-51 Equation 3.7
 $L_d = (BMP\ Efficiency) \cdot T \cdot (A_p/A_c) \cdot P$

Category	Williamson	acres
Total project area included in plan	2.18	acres
Predevelopment impervious area within the limits of the plan	0.00	acres
Total post-development impervious area within the limits of the plan	0.00	acres
Total post-development impervious cover fraction	0.00	
L_d (lb./year)	0.00	lb./year

5. Calculate Fraction of Annual Runoff to Treat the drainage basin / outfall area:

Category	Williamson	acres
Total project area included in plan	2.18	acres
Predevelopment impervious area within the limits of the plan	0.00	acres
Total post-development impervious area within the limits of the plan	0.00	acres
Total post-development impervious cover fraction	0.00	
L_d (lb./year)	0.00	lb./year

6. Calculate Treated Flow required by the BMP Type for this drainage basin / outfall area:

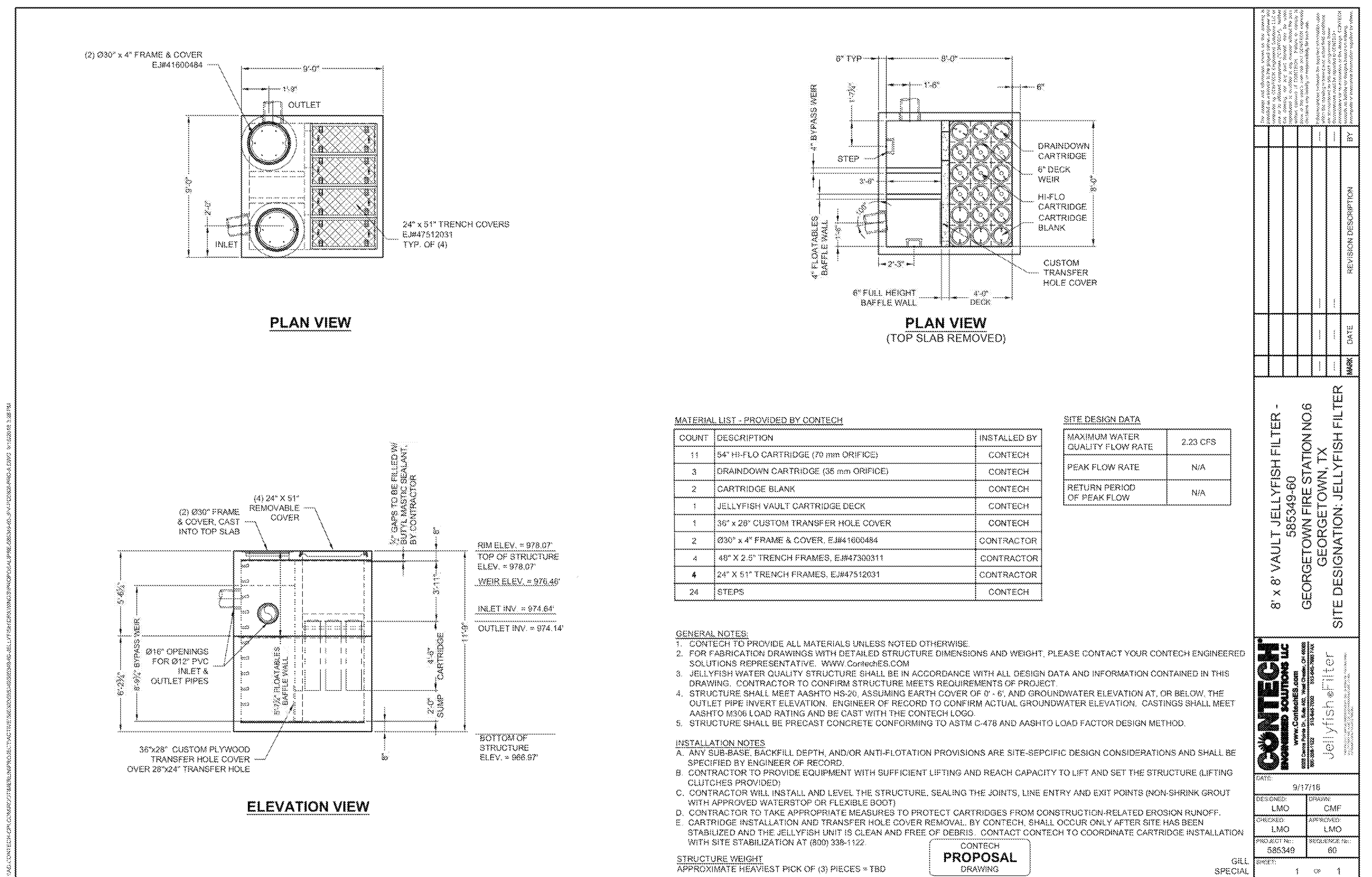
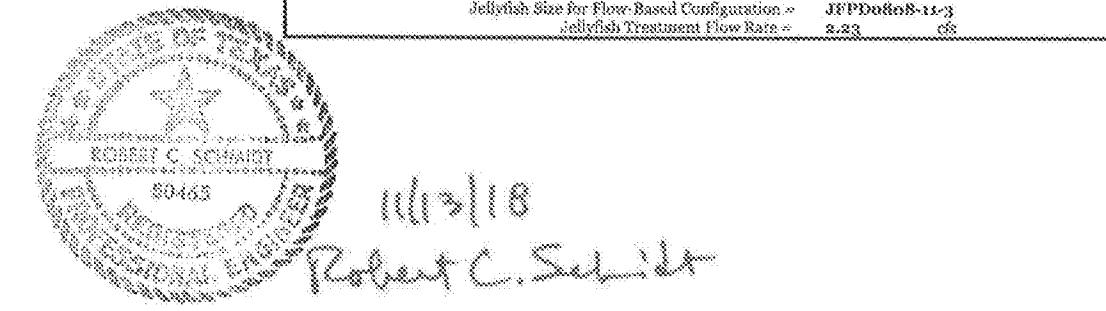
Category	Williamson	acres
Total project area included in plan	2.18	acres
Predevelopment impervious area within the limits of the plan	0.00	acres
Total post-development impervious area within the limits of the plan	0.00	acres
Total post-development impervious cover fraction	0.00	
L_d (lb./year)	0.00	lb./year

7. Jellyfish

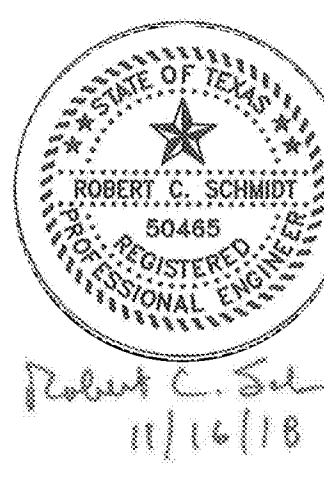
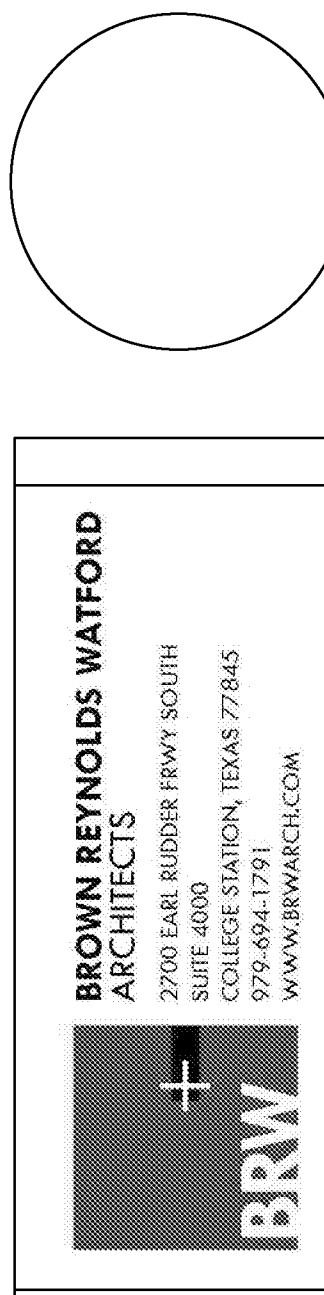
Designed as Required in RD-348 Section 3-2.2

Through Jellyfish Unit

Jellyfish Size for Flow-Based Configuration = PFG-4
 Jellyfish Treatment Flow Rate = 1.48 cfs



BASIN A1



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CITY OF GEORGETOWN
 GEORGETOWN FIRE STATION No. 6
 6700 R. M. 2038
 GEORGETOWN, TX, 78626

NO.	REVISION	DATE



Contech Engineered Solutions Calculations for Texas Commission on Environmental Quality
TSS Removal Calculations

Project Name: **Georgetown Fire Station No. 6**
 Date Prepared: **11/12/2018**

1. The Required Load Reduction for the total project:

Calculations from BC-948 Page 3-19 Equation 3.9: $L_d = 48.9(A_1 + P)$
 Pages 3-17 to 3-20

Assumptions = Required TSS removal resulting from the proposed development = 80% of increased load
 A_1 = Det increase in impervious area for the project
 P = Average annual precipitation, inches

Site Data: Determine Required Load Based on the Existing Project

	County = Williamson	Area
Total project area included in plan	4.18	acres
Predevelopment impervious area within the limits of the plan	0.00	acres
Total pre-development impervious area within the limits of the plan	0.00	acres
Total post-development impervious area within the limits of the plan	0.30	acres
Total post-development impervious cover fraction	0.07	
P	38	inches
Required TSS	954	lbs.

Number of drainage basins / outfall areas having the plan area = **1**

2. Drainage Basin Parameters (This information should be provided for each basin):

	Value	Unit
Drainage Basin/Outfall Area No.	01	
Total drainage basin/outfall area	0.30	acres
Predevelopment impervious area within drainage basin/outfall area	0.00	acres
Post-development impervious area within drainage basin/outfall area	0.30	acres
Predevelopment impervious cover fraction	0.00	
Post-development impervious cover fraction	0.07	
Required TSS	239	lbs.

3. Indicate the proposed BMP Code for this basin:

Proposed BMP	TSS Removal Efficiency	Abbreviation
3P	88%	vegetation

4. Calculate Maximum TSS Load Removed (L_d) for this Drainage Basin by the selected BMP Type:

BC-948 Page 3-21 Equation 3.7:
 $L_d = 100(0.05)P(1 - A_1)(1 - A_2)(1 - A_3)$

A_1 = Total On-Site drainage area in the BMP catchment area
 A_2 = Impervious area proposed in the BMP catchment area
 A_3 = Pre-dev area remaining in the BMP catchment area
 L_d = TSS Load removed from this catchment area by the proposed BMP

	Value	Unit
A_1	0.30	acres
A_2	0.30	acres
A_3	0.00	acres
L_d	148	lbs.

5. Calculate Fraction of Annual Runoff to Treat this drainage basin / outfall area:

Desired Load L_d = 148 lbs.
 $F = 0.91$

6. Calculate Treated Flow required by the BMP Type for this drainage basin / outfall area:

Offsite area draining to BMP = 0.00 acres
 Offsite impervious cover draining to BMP = 0.00 acres
 Calculations from BC-948 Page Section 3.3.14

Runoff Intensity = 1.15 inches per hour
 Effective Area = 0.33 acres
 Curve Length = 1.84 feet

Peak Treatment Flow Required = 0.16 cubic feet per second

2. Jellyfish

Designed as Required in BC-948 Section 3.2.10

Flow Through Animal Trap

Jellyfish Size for Flow Based Configuration = 27.6 x 1.1
 Jellyfish Treatment Flow Rate = 0.27 cfs

Robert C. Schmitt
 11/12/18

Contech Engineered Solutions Calculations for Texas Commission on Environmental Quality
TSS Removal Calculations

Project Name: **Georgetown Fire Station No. 6**
 Date Prepared: **11/12/2018**

1. The Required Load Reduction for the total project:

Calculations from BC-948 Page 3-19 Equation 3.9: $L_d = 48.9(A_1 + P)$
 Pages 3-17 to 3-20

Assumptions = Required TSS removal resulting from the proposed development = 85% of increased load
 A_1 = Det increase in impervious area for the project
 P = Average annual precipitation, inches

Site Data: Determine Required Load Based on the Existing Project

	County = Williamson	Area
Total project area included in plan	4.18	acres
Predevelopment impervious area within the limits of the plan	0.00	acres
Total pre-development impervious area within the limits of the plan	0.00	acres
Total post-development impervious area within the limits of the plan	0.30	acres
Total post-development impervious cover fraction	0.07	
P	38	inches
Required TSS	999	lbs.

Number of drainage basins / outfall areas having the plan area = **3**

2. Drainage Basin Parameters (This information should be provided for each basin):

	Value	Unit
Drainage Basin/Outfall Area No.	01	
Total drainage basin/outfall area	0.176	acres
Predevelopment impervious area within drainage basin/outfall area	0.00	acres
Post-development impervious area within drainage basin/outfall area	0.176	acres
Predevelopment impervious cover fraction	0.00	
Post-development impervious cover fraction	0.08	
Required TSS	528	lbs.

3. Indicate the proposed BMP Code for this basin:

Proposed BMP	TSS Removal Efficiency	Abbreviation
3P	88%	vegetation

4. Calculate Maximum TSS Load Removed (L_d) for this Drainage Basin by the selected BMP Type:

BC-948 Page 3-21 Equation 3.7:
 $L_d = 100(0.05)P(1 - A_1)(1 - A_2)(1 - A_3)$

A_1 = Total On-Site drainage area in the BMP catchment area
 A_2 = Impervious area proposed in the BMP catchment area
 A_3 = Pre-dev area remaining in the BMP catchment area
 L_d = TSS Load removed from this catchment area by the proposed BMP

	Value	Unit
A_1	0.18	acres
A_2	0.18	acres
A_3	0.00	acres
L_d	148	lbs.

5. Calculate Fraction of Annual Runoff to Treat this drainage basin / outfall area:

Desired Load L_d = 148 lbs.
 $F = 0.97$

6. Calculate Treated Flow required by the BMP Type for this drainage basin / outfall area:

Offsite area draining to BMP = 0.00 acres
 Offsite impervious cover draining to BMP = 0.00 acres
 Calculations from BC-948 Page Section 3.3.14

Runoff Intensity = 1.15 inches per hour
 Effective Area = 0.19 acres
 Curve Length = 0.94 feet

Peak Treatment Flow Required = 0.07 cubic feet per second

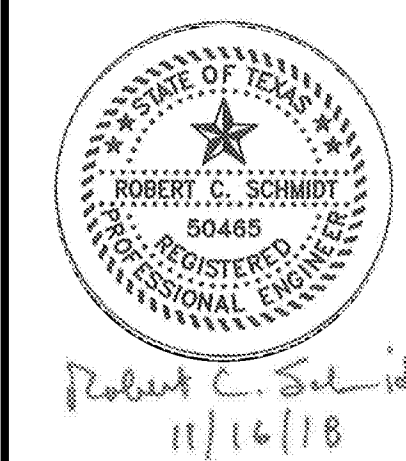
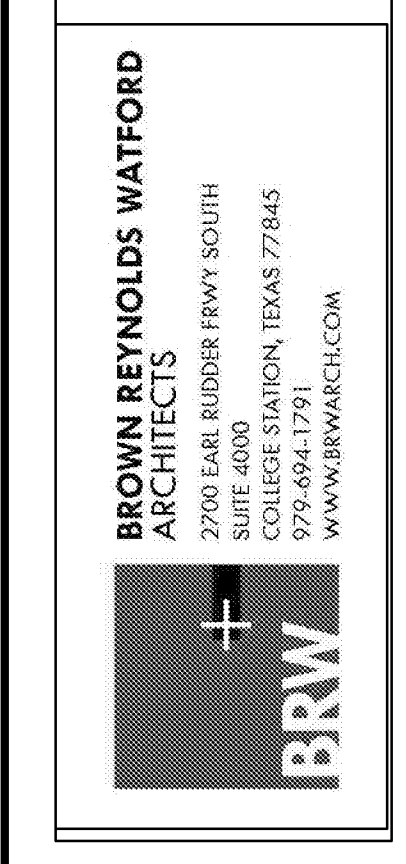
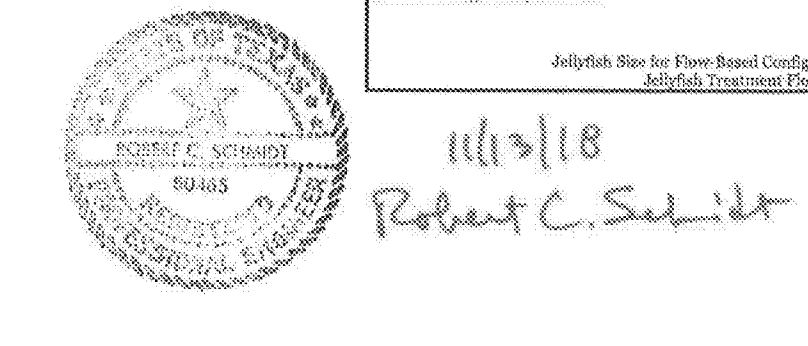
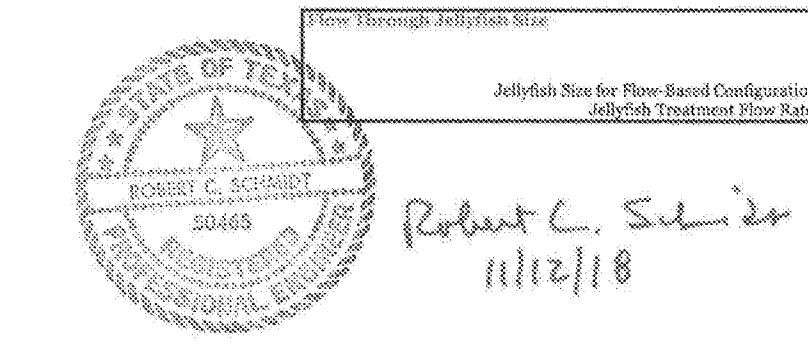
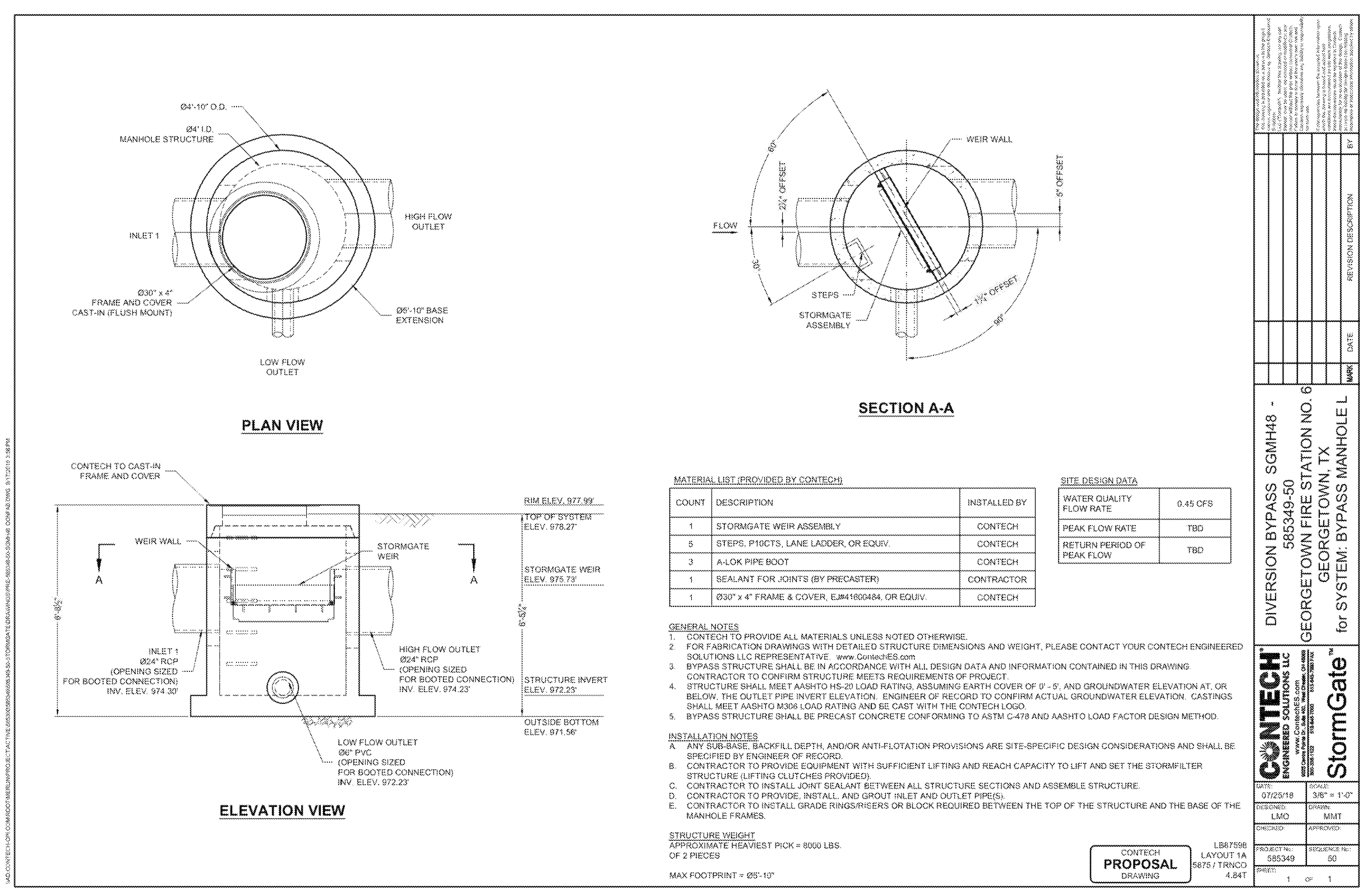
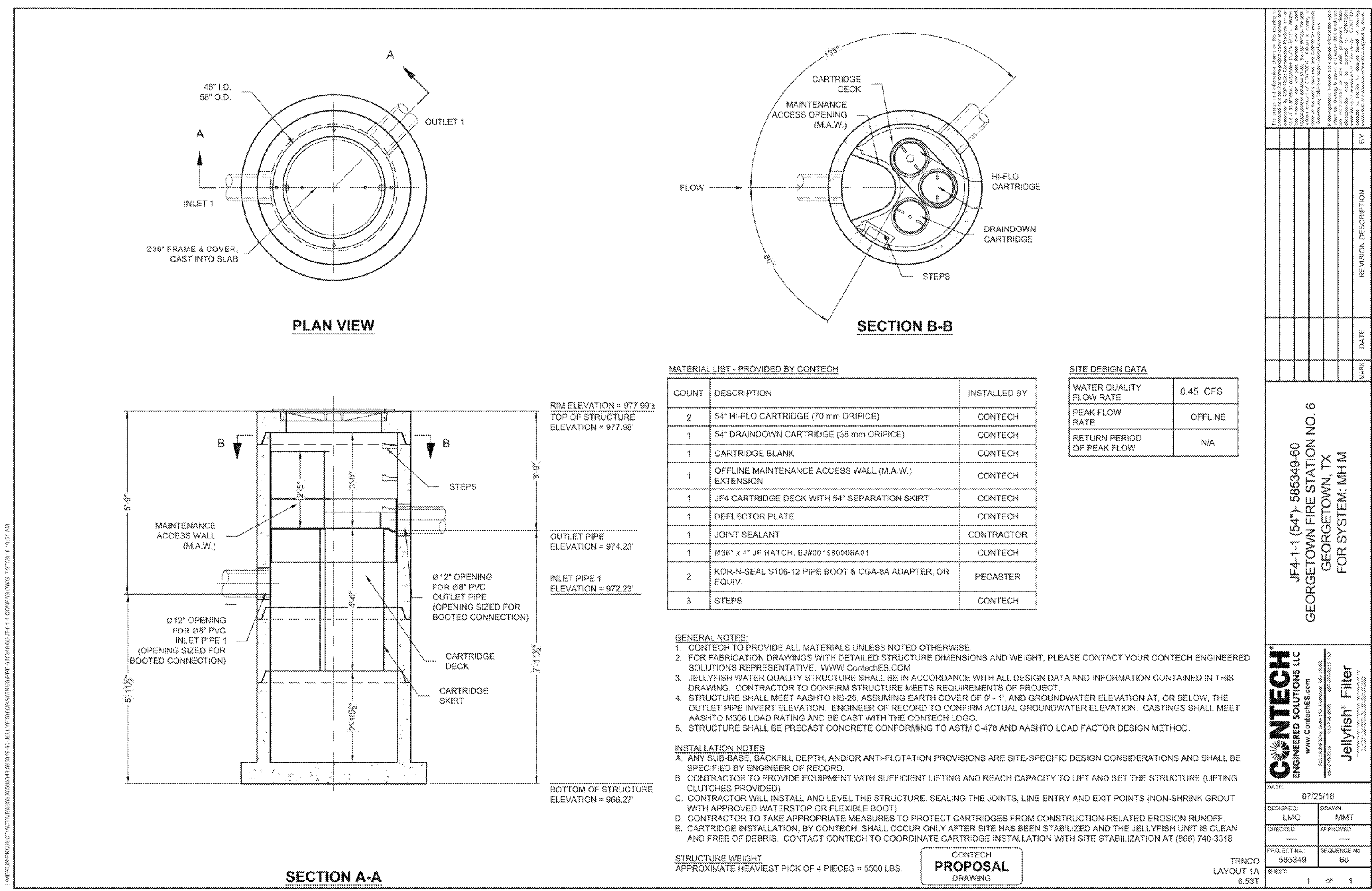
2. Jellyfish

Designed as Required in BC-948 Section 3.2.10

Flow Through Animal Trap

Jellyfish Size for Flow Based Configuration = 27.6 x 1.1
 Jellyfish Treatment Flow Rate = 0.27 cfs

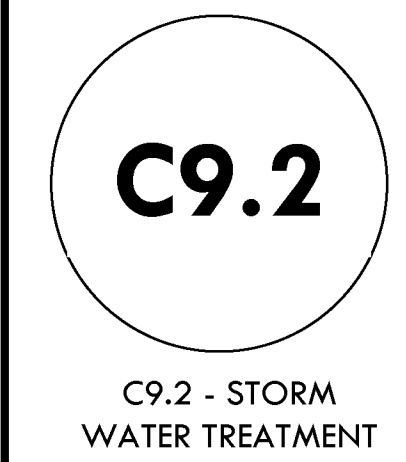
Robert C. Schmitt
 11/12/18



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 CHECKED BY: Checker
 BRW PROJECT NUMBER: 217079-00

CITY OF GEORGETOWN
 GEORGETOWN FIRE STATION No. 6
 6700 R. M. 2038
 GEORGETOWN, TX, 78626

NO.	REVISION	DATE



C9.2 - STORM
 WATER TREATMENT
 DETAILS 2

BASIN B1


GUIDELINES FOR DESIGN AND INSTALLATION OF TEMPORARY EROSION AND SEDIMENTATION CONTROLS

TYPE OF STRUCTURE	REACH LENGTH	MAXIMUM DRAINAGE AREA	SLOPE
SILT FENCE	N/A	2 ACRES	0 - 10%
	200 FEET	2 ACRES	10 - 20%
	100 FEET	1 ACRE	20 - 30%
TRIANGLE FILTER DIKE	100 FEET	1/2 ACRE	< 30% SLOPE
	50 FEET	1/4 ACRE	> 30% SLOPE
ROCK BERM **, **	500 FEET	< 5 ACRES	0 - 10%

* FOR ROCK BERM DESIGN WHERE PARAMETERS ARE OTHER THAN STATED, DRAINAGE AREA CALCULATIONS AND ROCK BERM DESIGN MUST BE SUBMITTED FOR REVIEW.

** HIGH SERVICE ROCK BERMS MAY BE REQUIRED IN AREAS OF ENVIRONMENTAL SIGNIFICANCE AS DETERMINED BY THE CITY OF GEORGETOWN.


The Architect/Engineer assumes responsibility for appropriate use of this standard.

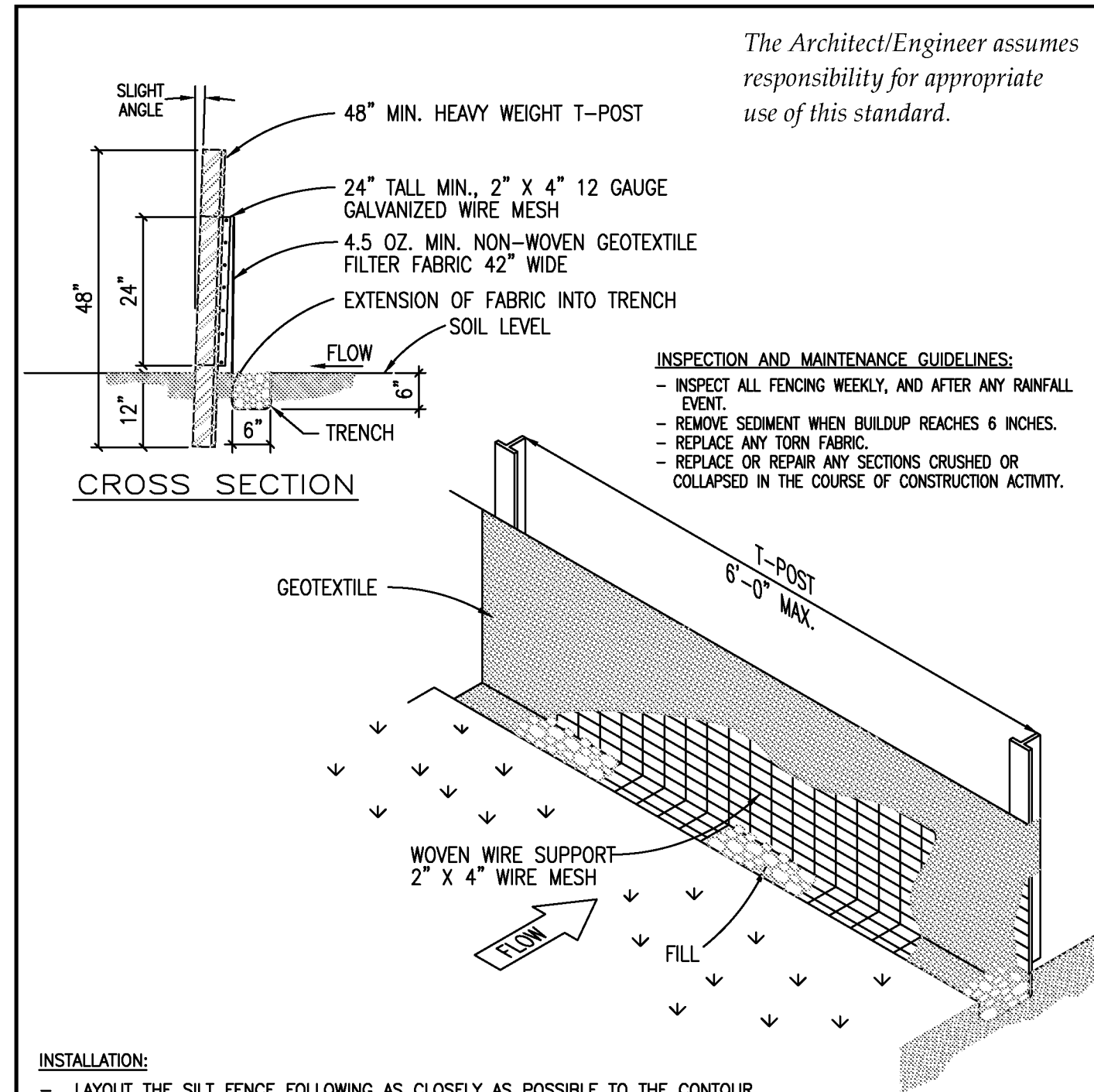
	CITY OF GEORGETOWN CONSTRUCTION STANDARDS AND DETAILS	ADOPTED 6/21/2006
	TEMPORARY EROSION AND SEDIMENTATION CONTROL GUIDELINES	ECO1
	NTS 1/2003	
	MRS TRB	

NOTE: THIS SECTION IS INTENDED TO ASSIST THOSE PERSONS PREPARING WATER POLLUTION ABATEMENT PLANS (WPAP) OR STORM WATER POLLUTION PREVENTION PLANS (SWPPP) THAT COMPLY WITH FEDERAL, STATE AND/OR LOCAL STORM WATER REGULATIONS.

- THE CONTRACTOR TO INSTALL AND MAINTAIN EROSION/SEDIMENTATION CONTROLS AND TREE/NATURAL AREA PROTECTIVE FENCING PRIOR TO ANY SITE PREPARATION WORK (CLEARING, GRUBBING, GRADING, OR EXCAVATION). CONTRACTOR TO REMOVE EROSION/SEDIMENTATION CONTROLS AT THE COMPLETION OF PROJECT AND GRASS RESTORATION.
- ALL PROJECTS WITHIN THE RECHARGE ZONE OF THE EDWARDS AQUIFER SHALL SUBMIT A BEST MANAGEMENT PRACTICES AND WATER POLLUTION ABATEMENT PLAN TO THE TMDQ FOR APPROVAL PRIOR TO ANY CONSTRUCTION.
- THE PLACEMENT OF EROSION/SEDIMENTATION CONTROLS TO BE IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN AND WATER POLLUTION ABATEMENT PLAN. DEVIATIONS FROM THE APPROVED PLAN MUST BE SUBMITTED TO AND APPROVED BY THE OWNER'S REPRESENTATIVE.
- ALL PLANTING SHALL BE DONE BETWEEN MAY 1 AND SEPTEMBER 15 EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING. IF PLANTING IS AUTHORIZED TO BE DONE BEFORE THE DATES SPECIFIED, THE SEED SHALL BE PLANTED WITH THE ADDITION OF WINTER FESCUE (KENTUCKY 31) AT A RATE OF 100#/ACRE. GRASS SHALL BE COMMON BERBERMUDA GRASS, HILLED, MINIMUM 80% PURE LIVE SEED. GRASS SEED SHALL BE FREE FROM NOXIOUS WEED GRADE. RECENT CROPS, FRESHLY FRESHLY AND TREATED WITH APPROVED FUNGICIDE AT TIME OF SOWING. SEED SHALL BE FURNISHED IN SEALED, STANDARD CONTAINERS WITH DEALER'S GUARANTEED ANALYSIS.
- ALL DISTURBED AREAS TO BE RESTORED AS NOTED IN THE WATER POLLUTION ABATEMENT PLAN.
- THE PLANTED AREA TO BE IRRIGATED OR SPRINKLED IN A MANNER THAT WILL NOT ERODE THE TOPSOIL, BUT WILL SUFFICIENTLY SOAK THE SOIL TO A DEPTH OF FOUR (4) INCHES. THE IRRIGATION TO OCCUR AT 10-DAY INTERVALS DURING THE FIRST TWO MONTHS TO INSURE ESTABLISHMENT OF THE GRASS. RAINFALL OCCURRENCES OF 1/2 INCH OR GREATER TO POSTPONE THE WATERING SCHEDULE ONE WEEK.
- RESTORATION TO BE ACCEPTABLE WHEN THE GRASS HAS GROWN AT LEAST 1-1/2 INCHES HIGH WITH 95% COVERAGE. PROVIDED NO BARE SPOTS LARGER THAN 25 SQUARE FEET EXIST.
- A MINIMUM OF FOUR (4) INCHES OF TOPSOIL TO BE PLACED IN ALL AREAS DISTURBED BY CONSTRUCTION.
- THE CONTRACTOR TO HYDROLOGICAL OR SOIL (AS SHOWN ON PLANS) ALL EXPOSED OUTCROPS AND FILLS UPON COMPLETION OF CONSTRUCTION.
- EROSION AND SEDIMENTATION CONTROLS TO BE INSTALLED OR MAINTAINED IN A MANNER WHICH DOES NOT RESULT IN SOIL BUILDUP WITHIN TREE DRIFLINE.
- TO AVOID SOIL COMPACTION, CONTRACTOR SHALL NOT ALLOW VEHICULAR TRAFFIC, PARKING, OR STORAGE OF EQUIPMENT OR MATERIALS IN THE TREE DRIFLINE AREAS.
- WHERE A FENCE IS CLOSER THAN FOUR (4) FEET TO A TREE TRUNK, PROTECT THE TRUNK WITH STRAPPED-ON PLANKING TO A HEIGHT OF EIGHT (8) FEET (OR TO THE LIMITS OF LOWER BRANCHES) IN ADDITION TO THE FENCING.
- TREES TO BE REMOVED IN A MANNER WHICH DOES NOT IMPACT TREES TO BE PRESERVED.
- ANY ROOT EXPOSED BY CONSTRUCTION ACTIVITY TO BE PRUNED FLUSH WITH THE SOIL. BACKFILL ROOT AREAS WITH SOOD QUALITY TOPSOIL AS SOON AS POSSIBLE. IF EXPOSED ROOT AREAS ARE NOT BACKFILLED WITHIN TWO DAYS, COVER THEM WITH ORGANIC MATERIAL IN A MANNER WHICH REDUCES SOIL TEMPERATURE AND MINIMIZES WATER LOSS DUE TO EVAPORATION.
- CONTRACTOR TO PRUNE VEGETATION TO PROVIDE CLEARANCE FOR STRUCTURES, VEHICULAR TRAFFIC, AND EQUIPMENT BEFORE DAMAGE OCCURS (RIPPING OF BRANCHES, ETC.). ALL FINISHED PRUNING TO BE DONE ACCORDING TO RECOGNIZED APPROVED STANDARDS OF THE INDUSTRY (REFER TO THE NATIONAL ARBORIST ASSOCIATION PRUNING STANDARDS FOR SHADE TREES).
- THE CONTRACTOR IS TO INSPECT THE CONTROLS AT WEEKLY INTERVALS AND AFTER EVERY RAINFALL EXCEEDING 1/4 INCH TO VERIFY THAT THEY HAVE NOT BEEN SIGNIFICANTLY DISTURBED. ANY ACCUMULATED SEDIMENT AFTER A SIGNIFICANT RAINFALL TO BE REMOVED AND PLACED IN THE OWNER DESIGNATED SPILL DISPOSAL SITE. THE CONTRACTOR TO CONDUCT PERIODIC INSPECTIONS OF ALL EROSION/SEDIMENTATION CONTROLS AND TO MAKE ANY REPAIRS OR MODIFICATIONS NECESSARY TO ASSURE CONTINUED EFFECTIVE OPERATION OF EACH DEVICE.
- WHERE THERE IS TO BE AN APPROVED GRADE CHANGE, IMPERMEABLE PAVING SURFACE, TREE WELL, OR OTHER SUCH SITE DEVELOPMENT IMMEDIATELY ADJACENT TO A PROTECTED TREE, ERECT THE FENCE APPROXIMATELY TWO TO FOUR FEET (2'-4') BEHIND THE AREA IN QUESTION.
- NO ABOVE AND/OR BELOW GROUND TEMPORARY FUEL STORAGE FACILITIES TO BE STORED ON THE PROJECT SITE.
- IF EROSION AND SEDIMENTATION CONTROL SYSTEMS ARE EXISTING FROM PRIOR CONTRACTS, OWNER'S REPRESENTATIVE AND THE CONTRACTOR TO EXAMINE THE EXISTING EROSION AND SEDIMENTATION CONTROL SYSTEMS FOR DAMAGE PRIOR TO CONSTRUCTION. ANY DAMAGE TO PREEXISTING EROSION AND SEDIMENTATION CONTROLS NOTED TO BE REPAIRED AT OWNER'S EXPENSE.
- INTENTIONAL RELEASE OF VEHICLE OR EQUIPMENT FLUIDS ONTO THE GROUND IS NOT ALLOWED. CONTAMINATED SOIL RESULTING FROM ACCIDENTAL SPILL TO BE REMOVED AND DISPOSED OF PROPERLY.


The Architect/Engineer assumes responsibility for appropriate use of this standard.

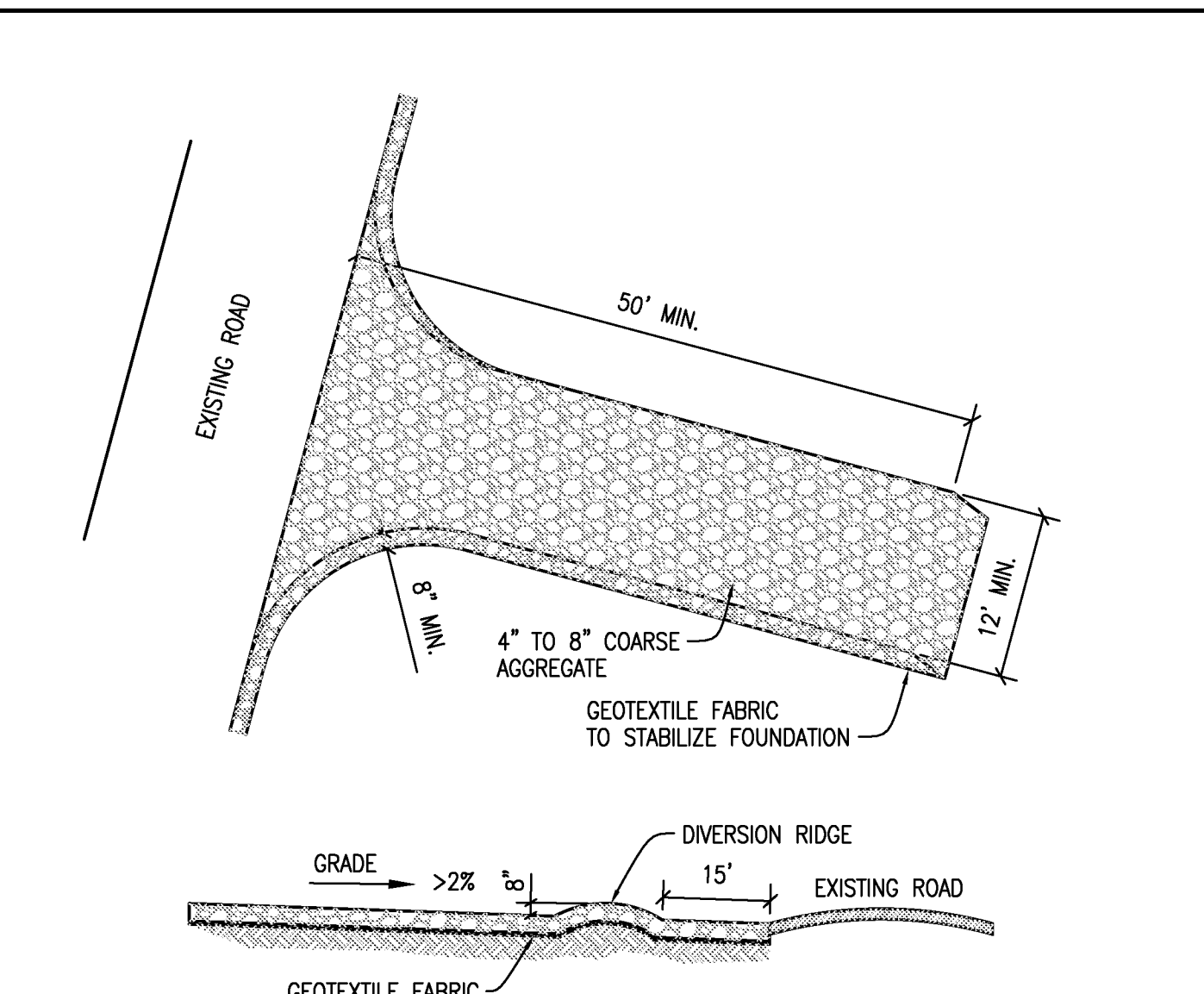
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	EROSION AND SEDIMENTATION AND TREE PROTECTION NOTES	ECO1A
	NTS 1/2003	
	MRS TRB	



The Architect/Engineer assumes responsibility for appropriate use of this standard.


- INSTALLATION:**
- LAYOUT THE SILT FENCE FOLLOWING AS CLOSELY AS POSSIBLE TO THE CONTOUR.
 - CLEAR THE GROUND OF DEBRIS, ROCKS, PLANTS (INCLUDING GRASSES TALLER THAN 2') TO PROVIDE A SMOOTH FLOW APPROACH SURFACE. EXCAVATE 6" DEEP X 6" WIDE TRENCH ON UPSTREAM SIDE OF FACE PER PLANS.
 - DRIVE THE HEAVY DUTY T-POST AT LEAST 12 INCHES INTO THE GROUND AND AT A SLIGHT ANGLE TOWARDS THE FLOW.
 - ATTACH THE 2" X 4" 12 GAUGE WELDED WIRE MESH TO THE T-POST WITH 11 1/2 GAUGE GALVANIZED T-POST CLIPS. THE TOP OF THE WIRE TO BE 24" ABOVE GROUND LEVEL. THE WELDED WIRE MESH TO BE OVERLAPPED 6" AND TIED AT LEAST 8 TIMES WITH HOOP RINGS.
 - THE SILT FENCE TO BE INSTALLED WITH A SKIRT A MINIMUM OF 6" WIDE PLACED ON THE UPHILL SIDE OF THE FENCE INSIDE EXCAVATED TRENCH. THE FABRIC TO OVERLAP THE TOP OF THE WIRE BY 1".
 - ANCHOR THE SILT FENCE BY BACKFILLING WITH EXCAVATED DIRT AND ROCKS (NOT LARGER THAN 2").
 - GEOTEXTILE SPLICES SHOULD BE A MINIMUM OF 18" WIDE ATTACHED IN AT LEAST 6 PLACES. SPLICES IN CONCENTRATED FLOW AREAS WILL NOT BE ACCEPTED.
 - SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

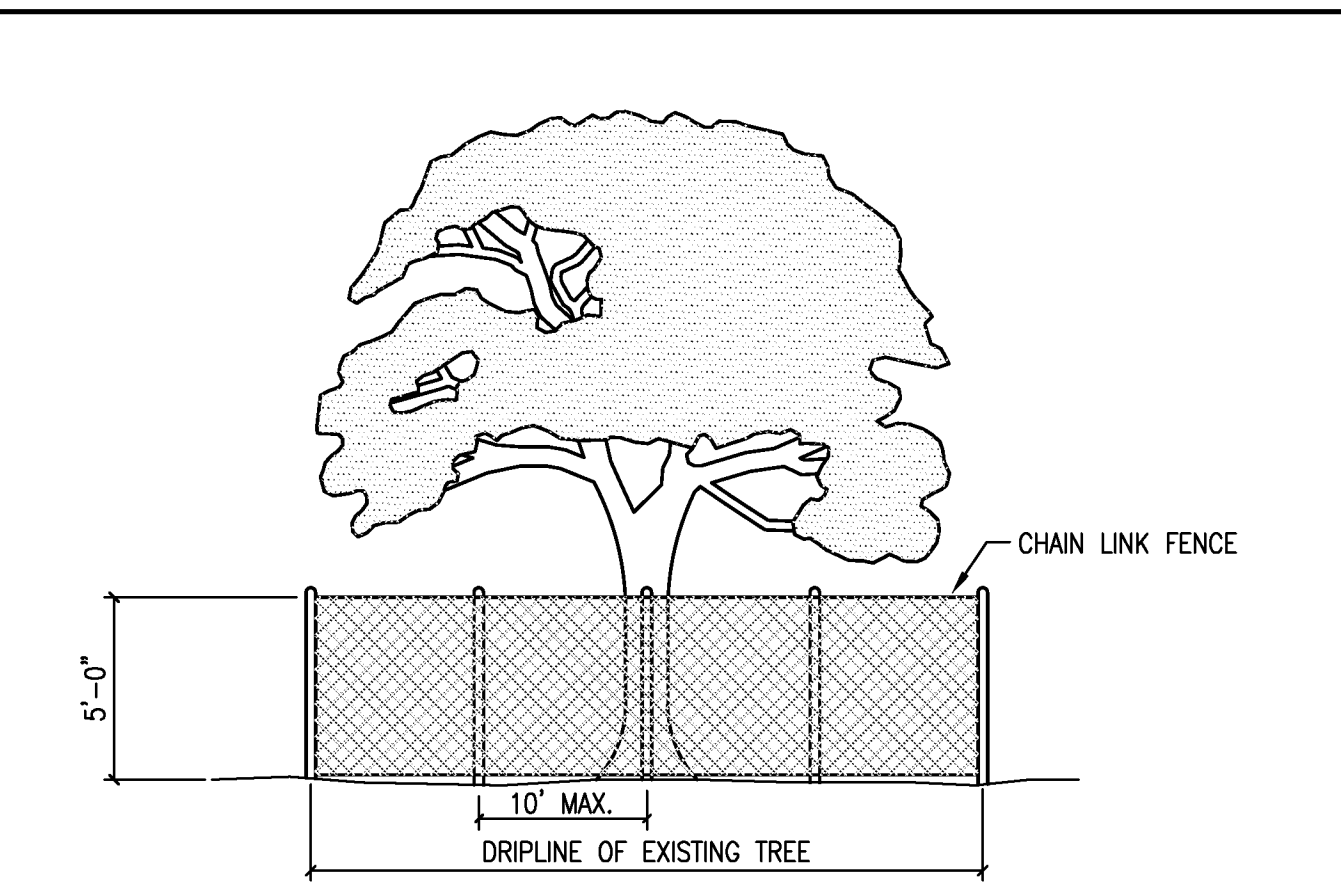
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	SILT FENCE DETAIL	ECO2
	NTS 1/2003	
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- INSTALLATION:**
- CLEAR THE AREA OF DEBRIS, ROCKS OR PLANTS THAT WILL INTERFERE WITH INSTALLATION.
 - GRADE THE AREA FOR THE ENTRANCE TO FLOW BACK ON TO THE CONSTRUCTION SITE. RUNOFF FROM THE STABILIZED CONSTRUCTION.
 - PLACE GEOTEXTILE FABRIC AS APPROVED BY THE CITY.
 - PLACE ROCK AS APPROVED BY THE CITY.
- INSPECTIONS AND MAINTENANCE GUIDELINES:**
- THE ENTRANCE SHOULD BE MAINTAINED IN A CONDITION, WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANUP OF ANY MEASURES USED TO TRAP SEDIMENT.
 - ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ON TO PUBLIC RIGHTS-OF-WAY SHOULD BE REMOVED IMMEDIATELY BY CONTRACTOR.
 - WHEN NECESSARY, WHEELS SHOULD BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY.
 - WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
 - ALL SEDIMENT SHOULD BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATER COURSE BY USING APPROVED METHODS.


The Architect/Engineer assumes responsibility for appropriate use of this standard.

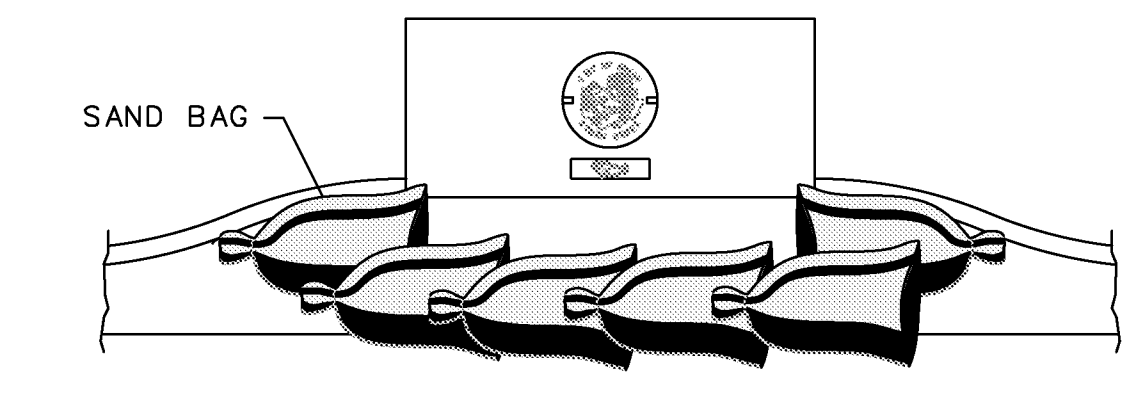
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	STABILIZED CONSTRUCTION ENTRANCE	ECO6
	NTS 1/2003	
	MRS TRB	



- NOTES:**
- TREE PROTECTION FENCES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY SITE PREPARATION WORK (CLEARING, GRUBBING OR GRADING).
 - FENCES SHALL COMPLETELY SURROUND THE TREE, OR CLUSTERS OF TREES, WILL BE LOCATED AT THE OUTERMOST LIMIT OF THE TREE BRANCHES (DRIFLINE), AND WILL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROJECT IN ORDER TO PREVENT THE FOLLOWING:
 - SOIL COMPACTION IN THE ROOT ZONE AREA RESULTING FROM VEHICULAR TRAFFIC, OR STORAGE OF EQUIPMENT OR MATERIALS.
 - ROOT ZONE DISTURBANCES DUE TO GRADE CHANGES (GREATER THAN SIX INCHES (6") CUT OR FILL, OR TRENCHING NOT REVIEWED AND AUTHORIZED BY THE CITY.
 - WOUNDS TO EXPOSED ROOTS, TRUNKS OR LIMBS BY MECHANICAL EQUIPMENT.
 - OTHER ACTIVITIES DETRIMENTAL TO TREES, SUCH AS CHEMICAL STORAGE, CEMENT TRUCK CLEANING AND FIRE.
 - EXCEPTIONS TO INSTALLING FENCES AT TREE DRIFLINES MAY BE PERMITTED IN THE FOLLOWING CASES:
 - WHERE PERMEABLE PAVING IS TO BE INSTALLED, ERECT THE FENCE AT THE OUTER LIMITS OF THE PERMEABLE PAVING AREA.
 - WHERE TREES ARE CLOSE TO PROPOSED BUILDINGS, ERECT THE FENCE NO CLOSER THAN SIX FEET (6'-0") TO BUILDING.

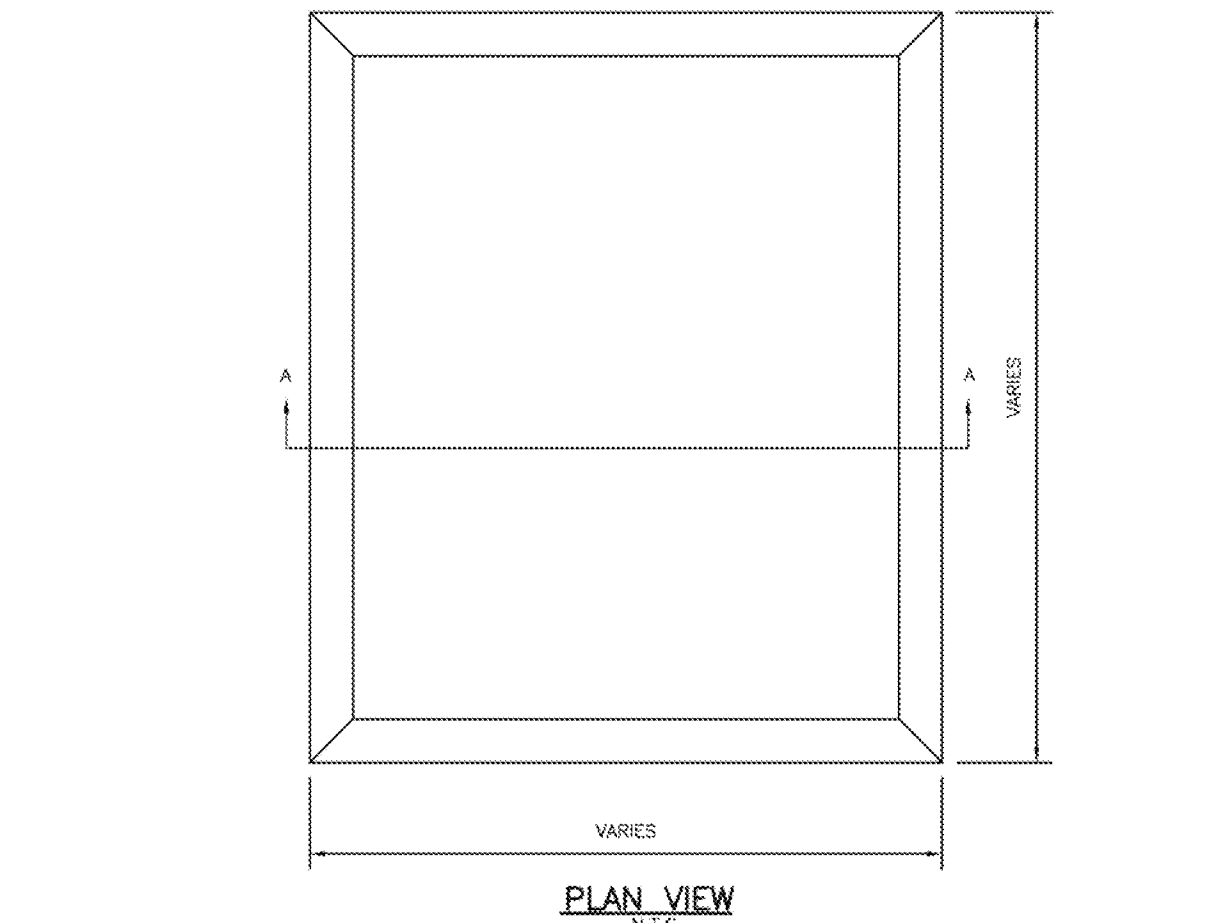
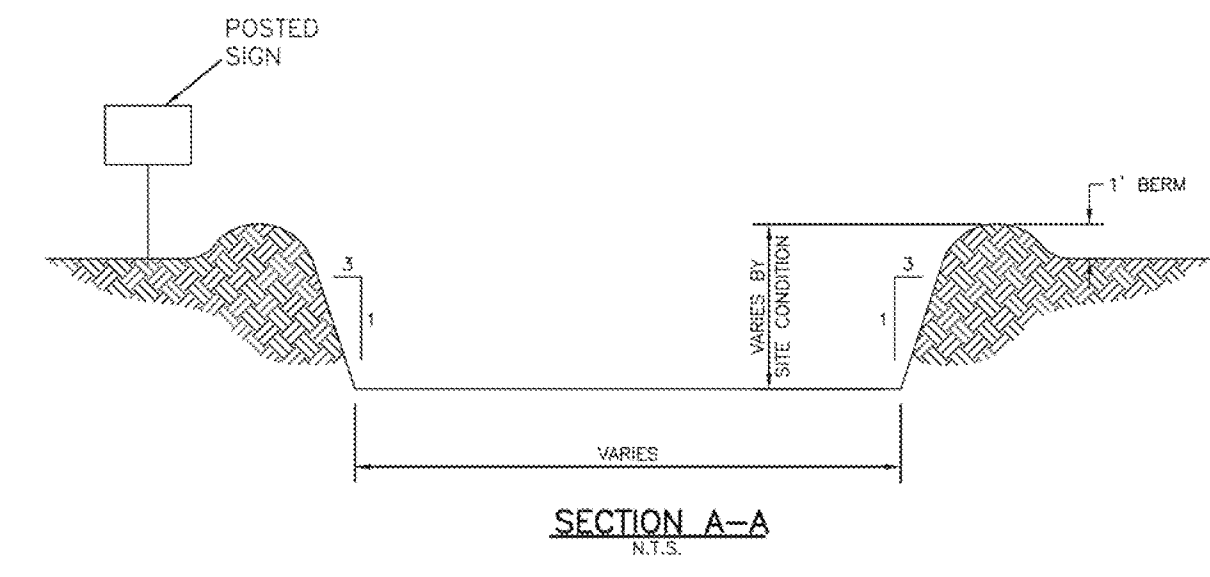
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	CITY OF GEORGETOWN CONSTRUCTION STANDARDS AND DETAILS	ADOPTED 6/21/2006
	TREE PROTECTION - CHAIN LINK FENCE	ECO9
	NTS 1/2003	
	MRS TRB	



- NOTE:**
- TEMPORARY DEVICES AROUND STORM DRAINS ARE USED TO DETAIN AND/OR FILTER SEDIMENT-LADEN RUNOFF. THE PROTECTION ALLOWS SEDIMENT TO SETTLE PRIOR TO DISCHARGE INTO A STORM DRAIN INLET OR CATCH BASIN. SAND BAGS SHALL BE UV RESISTANT AND MUST NOT DEGRADE DUE TO ATMOSPHERIC CONDITIONS. SAND BAGS SHALL BE REPLACED UPON FIRST SIGN OF DETERIORATION.

1 STORM DRAIN INLET PROTECTION
NTS



- GENERAL NOTES:**
- POST A SIGN READING "CONCRETE WASHOUT PIT" NEXT TO THE PIT.
 - VERBALLY INSTRUCT THE CONCRETE TRUCK DRIVERS WHERE THE PIT IS AND TO WASH OUT THEIR TRUCKS IN THE PIT AND NOWHERE ELSE.
 - UPON THE CONCRETE SETTING UP (CURING, DRYING OUT), THE CONCRETE WASTE SHALL BE REMOVED FROM THE PROJECT SITE AND DISPOSED OF PROPERLY BY THE CONTRACTOR. AFTER REMOVAL OF THE CONCRETE WASTE, THE WASH OUT PIT SHALL BE FILLED WITH CLEAN FILL MATERIAL AND COMPACTED TO IN-SITU CONDITIONS, OR AS DIRECTED BY THE PROJECT SPECIFICATIONS.
 - CONCRETE WASHOUT PITS SHALL NOT BE LOCATED DIRECTLY ADJACENT TO, NOR AT ANY TIME DRAIN INTO THE STORM SEWER SYSTEM OR ANY OTHER SWALE, DITCH, OR WATERWAY.
 - CONSTRUCT ENTRY ROAD AND BOTTOM OF WASHOUT AREA TO SUPPORT EXPECTED LOADINGS FROM TRUCKS EQUIPMENT.

2 CONCRETE TRUCK WASHOUT AREA
NTS

NOTE:
ALL APPLICABLE GEORGETOWN STANDARD DETAILS ARE NOT NECESSARILY INCLUDED HEREIN. CONTRACTOR IS RESPONSIBLE FOR ACQUIRING A COMPLETE COPY OF THE CITY OF GEORGETOWN'S UNIFIED DEVELOPMENT CODE AND APPLICABLE CITY STANDARD DETAILS.

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Professional Engineer Seal for Robert C. Schmidt, No. 50465, State of Texas, dated 11/16/18.

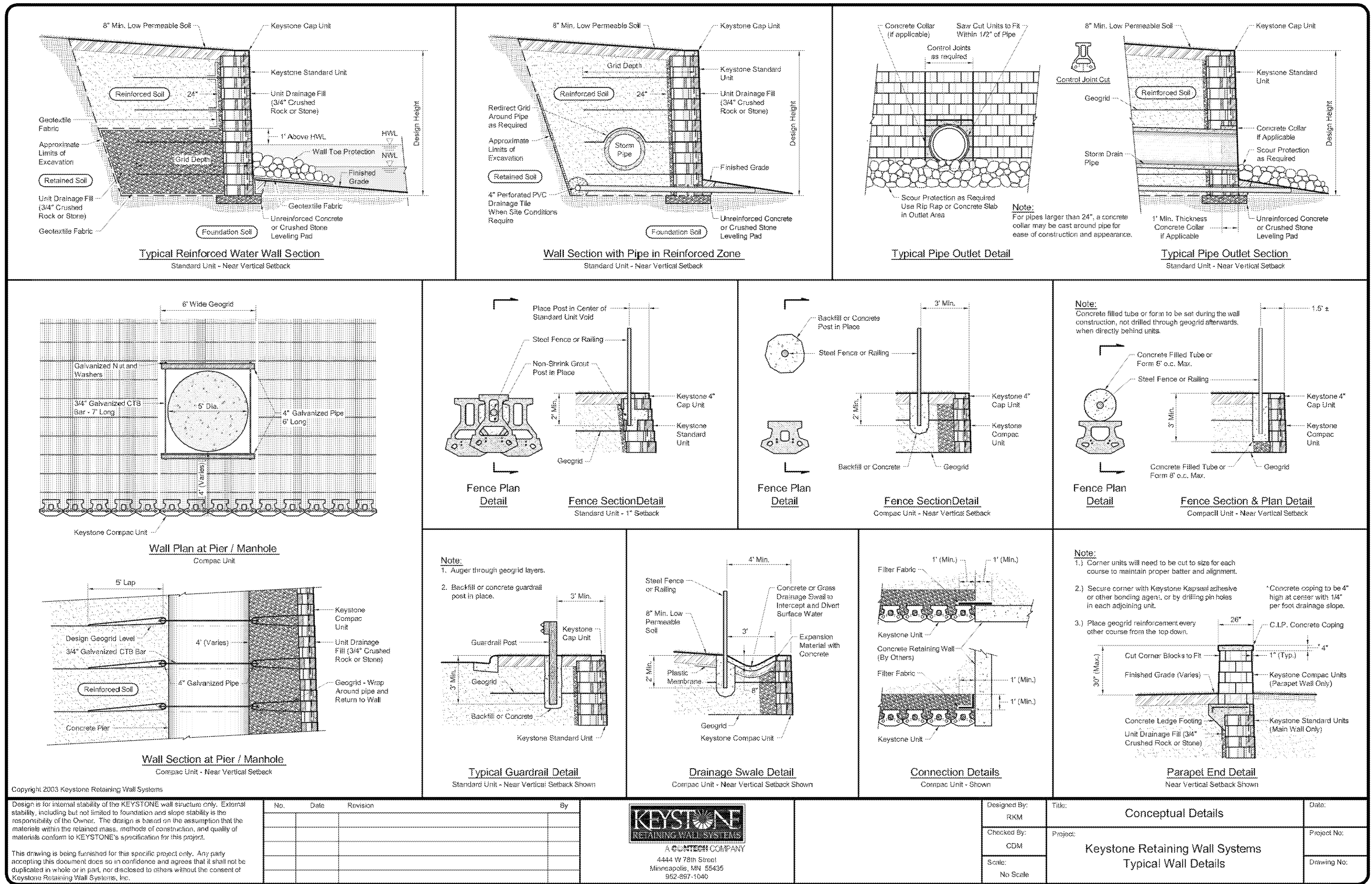
STRAND ASSOCIATES
STRAND JOB # 3935.034

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BRW PROJECT NUMBER 217079-00

CITY OF GEORGETOWN
GEORGETOWN FIRE STATION No. 6
6700 R.M. 2038
GEORGETOWN, TX, 78626

NO.	REVISION	DATE

C10.0
EROSION CONTROL DETAILS



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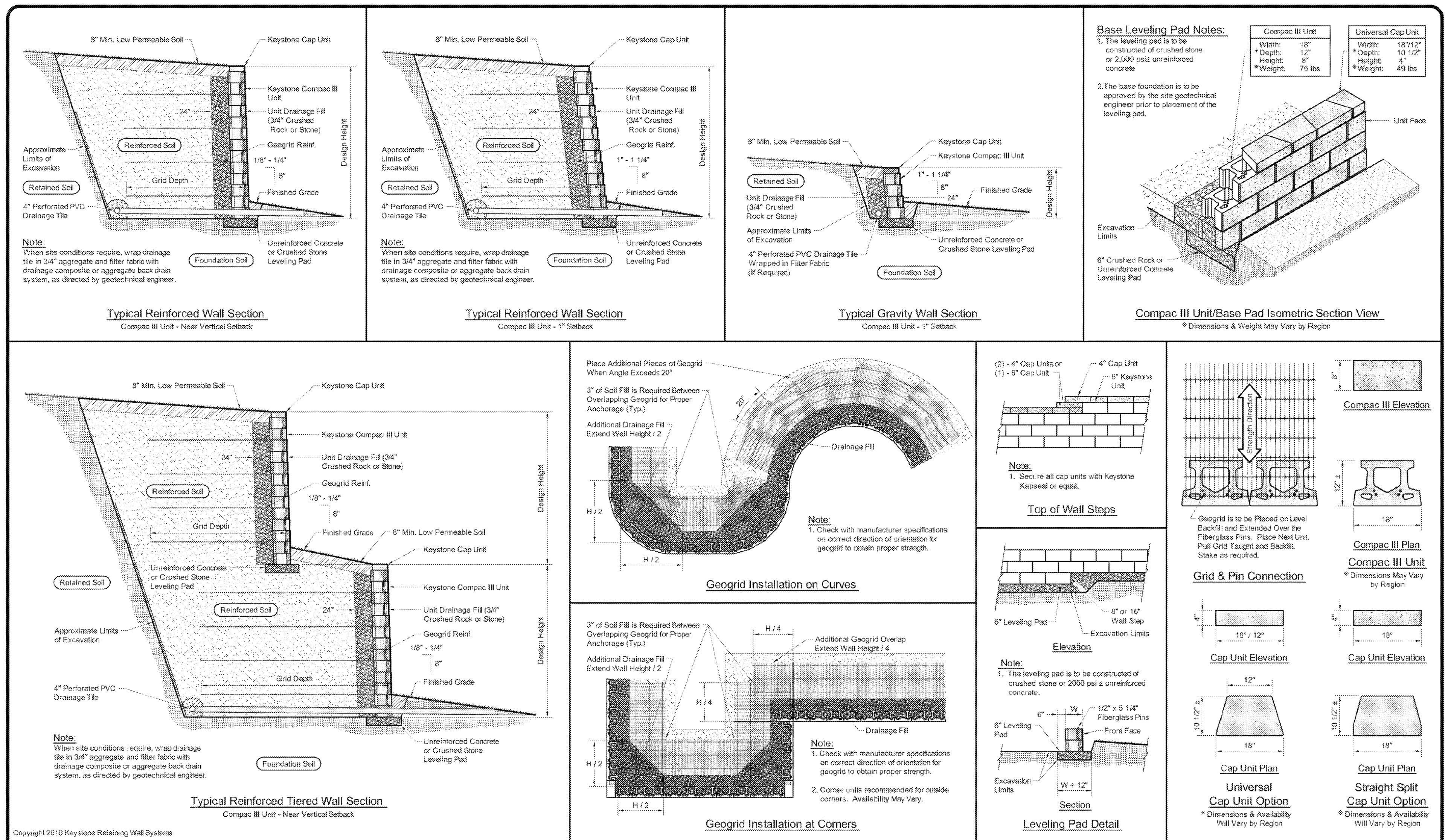
Design is for internal stability of the KEYSTONE wall structure only. External stability, including but not limited to foundation and slope stability is the responsibility of the Owner. The design is based on the assumption that the materials within the retained mass, methods of construction, and quality of materials conform to KEYSTONE's specifications for this project.

This drawing is being furnished for this specific project only. Any party accepting this document does so in confidence and agrees that it shall not be duplicated in whole or in part, nor disclosed to others without the consent of Keystone Retaining Wall Systems, Inc.

No.	Date	Revision	By

KEYSTONE
RETAINING WALL SYSTEMS
A CHARTERED COMPANY
4444 W 78th Street
Minneapolis, MN 55425
952-897-1040

Designed By: RKM	Title: Conceptual Details	Date:
Checked By: CDM	Project: Keystone Retaining Wall Systems Typical Wall Details	Project No.:
Scale: No Scale		Drawing No.:



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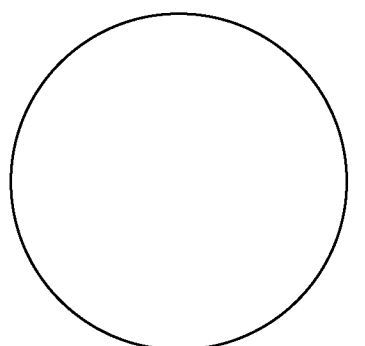
Design is for internal stability of the KEYSTONE wall structure only. External stability, including but not limited to foundation and slope stability is the responsibility of the Owner. The design is based on the assumption that the materials within the retained mass, methods of construction, and quality of materials conform to KEYSTONE's specifications for this project.

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No.	Date	Revision	By

KEYSTONE
RETAINING WALL SYSTEMS
A CHARTERED COMPANY
4444 W 78th Street
Minneapolis, MN 55425
952-897-1040

Designed By: RKM	Title: Compac III Unit - Straight Face Details	Date:
Checked By: CDM	Project: Keystone Retaining Wall Systems Typical Wall Details	Project No.:
Scale: No Scale		Drawing No.:



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STATE OF TEXAS
REGISTERED PROFESSIONAL ARCHITECT
ROBERT C. SCHMIDT
50465
11/16/18

STRAND
ASSOCIATES
STANDARD JOB #
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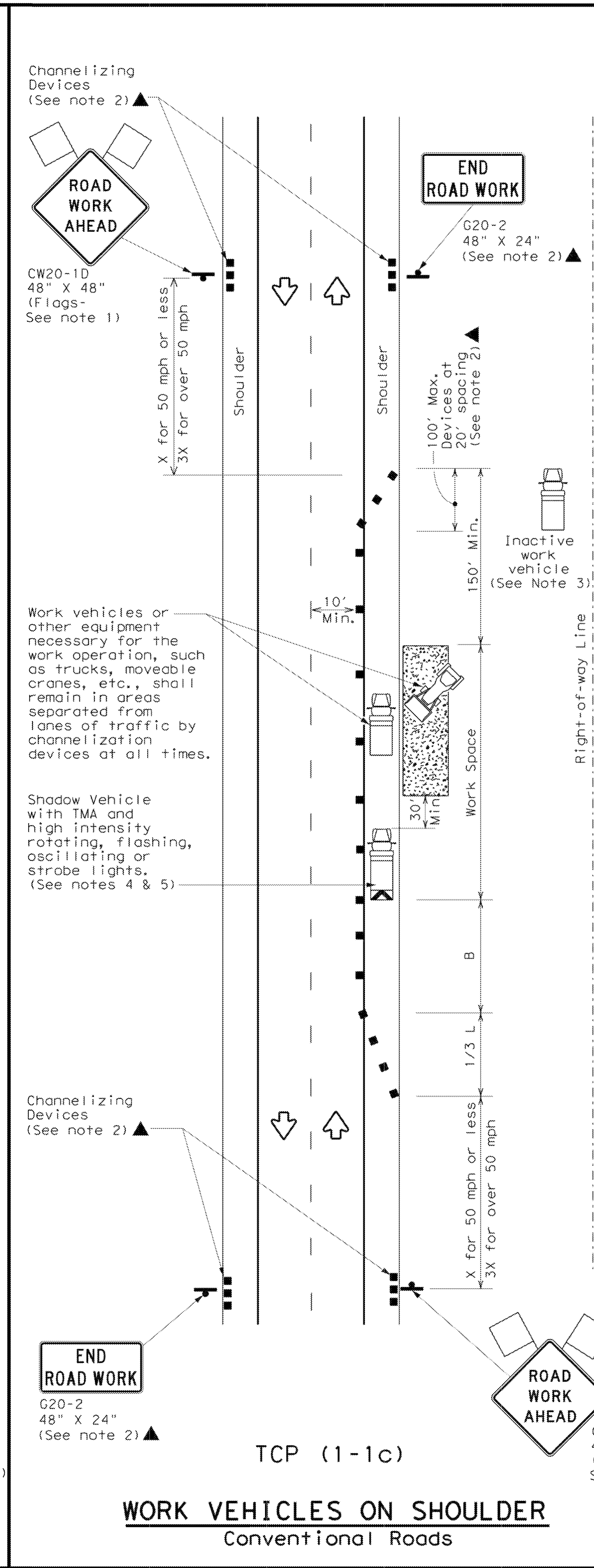
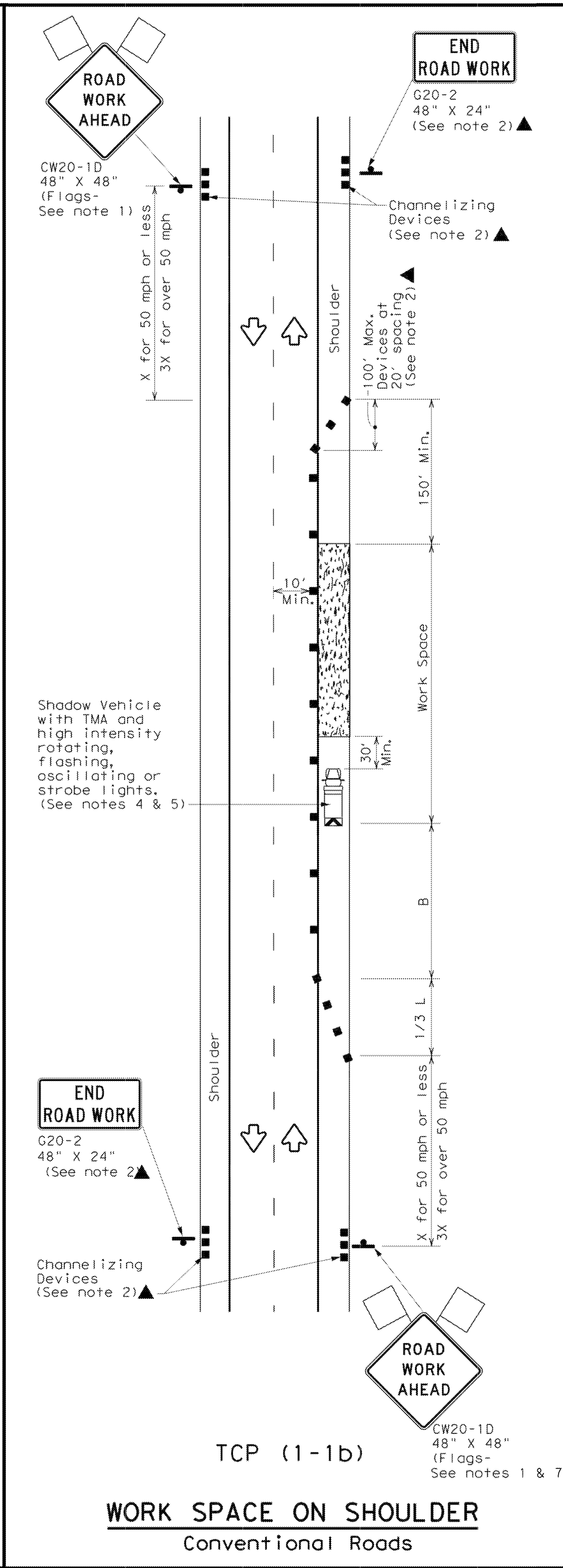
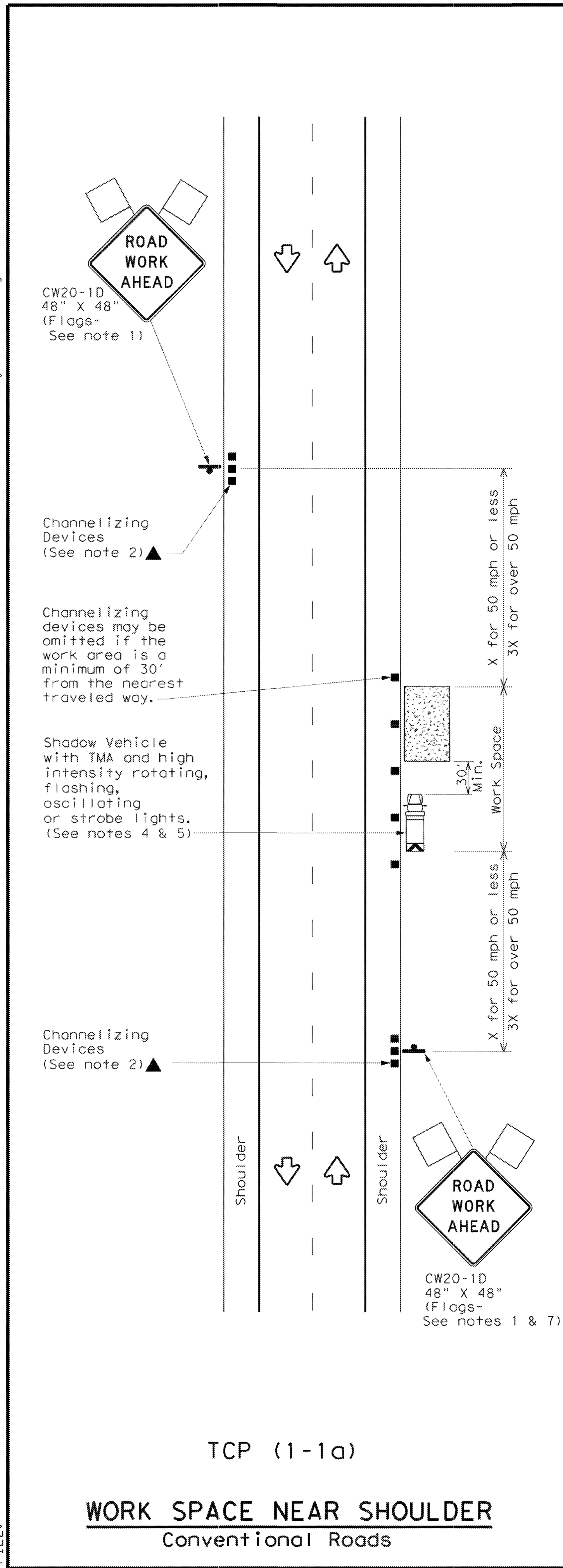
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GEORGETOWN FIRE STATION No. 6
6700 R. M. 2938
GEORGETOWN, TX, 78626

NO.	REVISION	DATE

C11.0
RETAINING WALL DETAILS

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DATE: FILE:



Posted Speed *		Formula	Minimum Desirable Taper Lengths **			Suggested Maximum Spacing of Channelizing Devices		Minimum Sign Spacing "A"	Suggested Longitudinal Buffer Space "B"
30	35	L = WS / 60	10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	Distance	
30	35		150'	165'	180'	30'	60'	120'	90'
40	45	205'	225'	245'	35'	70'	160'	120'	
50	55	265'	295'	320'	40'	80'	240'	155'	
60	65	450'	495'	540'	45'	90'	320'	195'	
70	75	500'	550'	600'	50'	100'	400'	240'	
			550'	605'	660'	55'	110'	500'	295'
			600'	660'	720'	60'	120'	600'	350'
			650'	715'	780'	65'	130'	700'	410'
			700'	770'	840'	70'	140'	800'	475'
			750'	825'	900'	75'	150'	900'	540'

* Conventional Roads Only
 ** Taper lengths have been rounded off.
 L=Length of Taper (FT) W=Width of Offset (FT) S=Posted Speed (MPH)

TYPICAL USAGE				
MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
	✓	✓		

GENERAL NOTES

- Flags attached to signs where shown are REQUIRED.
- All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer.
- Inactive work vehicles or other equipment should be parked near the right-of-way line and not parked on the paved shoulder.
- A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
- Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect wider work spaces.
- See TCP(5-1) for shoulder work on divided highways, expressways and freeways.
- CW21-5 "SHOULDER WORK" signs may be used in place of CW20-1D "ROAD WORK AHEAD" signs for shoulder work on conventional roadways.

Texas Department of Transportation
 Traffic Operations Division Standard

TRAFFIC CONTROL PLAN
CONVENTIONAL ROAD
SHOULDER WORK

TCP (1-1) - 18

FILE:	tcpl-1-18.dgn	DATE:	5/14/2018
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8-95	2-12	SHEET:	SHEET NO.:
1-97	2-18		

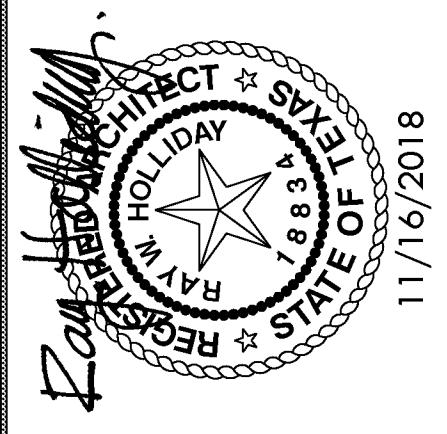
NO.	REVISION	DATE

LEGEND

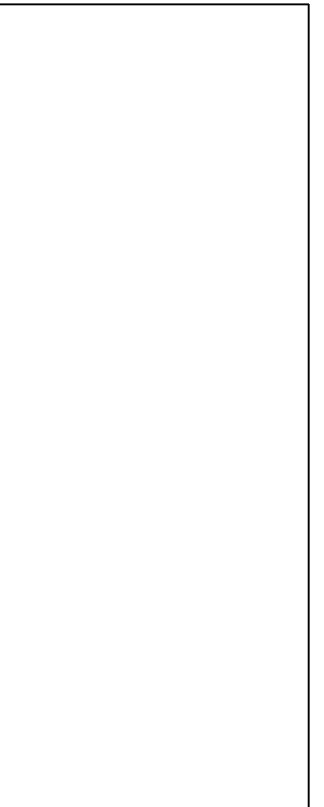
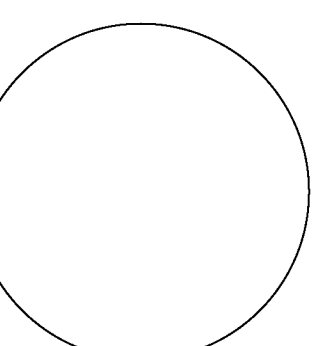
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	-	CYNODON DACTYLON	BERMUDAGRASS SOD	-	RE: SPECIFICATIONS
	-	CYNODON DACTYLON	BERMUDAGRASS HYDROMULCH	-	RE: SPECIFICATIONS NOT REQUIRED IN UNDISTURBED AREAS
	197	SALVIA COCCINEA	SCARLET SAGE	1 GAL.	1' - 2'-6" SPACING CONTAINER GROWN
	34	SALVIA GREGGI	AUTUMN SAGE (PERENNIAL)	1 GAL.	12" - 18" SPACING CONTAINER GROWN
	92	LANTANA HORRIDA	TEXAS LANTANA (SHRUB)	1 GAL. MIN.	12" - 24" SPACING CONTAINER GROWN
	61	LEUCOPHYLLUM FRUTESCENS	TEXAS SAGE (SHRUB)	3 GAL. MIN. 18" HEIGHT	3' SPACING CONTAINER GROWN
	23	HESPERALOE PARVIFLORA	RED YUCCA (SHRUB)	5 GAL. MIN. 18" HEIGHT	3' SPACING CONTAINER GROWN
	15	ANISACANTHUS QUADRIFIDUS VAR WRIGHTII	FLAME ACANTHUS (SHRUB)	5 GAL. MIN. 18" HEIGHT	4' - 5' SPACING CONTAINER GROWN
	5	QUERCUS POLYMORPHA (MEXICAN WHITE)	MONTEREY OAK (SHADE TREE)	MIN. 4" CALIPER 6" FROM BASE	STRAIGHT TRUNK
	16	-	SMALL BOULDER	2' - 3' DIAMETER	-
	6	-	MEDIUM BOULDER	3' - 4' DIAMETER	-
TOTAL	-				

KEYNOTES

- 0150.05 TEMPORARY TREE PROTECTION
- 0220.01 EXISTING TREE (RE. SURVEY)
- 0770.18 CONCRETE SPLASH BLOCK
- 3120.01 GRADE
- 3290.01 LANDSCAPE BED
- 3290.03 18" X 4" METAL EDGING
- 3290.08 MULCH
- 3290.10 ROOT BALL
- 3290.11 PREPARED SOIL MIX
- 3290.12 RIVER STONE
- 3290.13 STEEL STAKE
- 3290.14 LIMESTONE BOULDER
- 3290.16 4" PERFORATED METAL EDGING
- 3340.13 FILTER FABRIC



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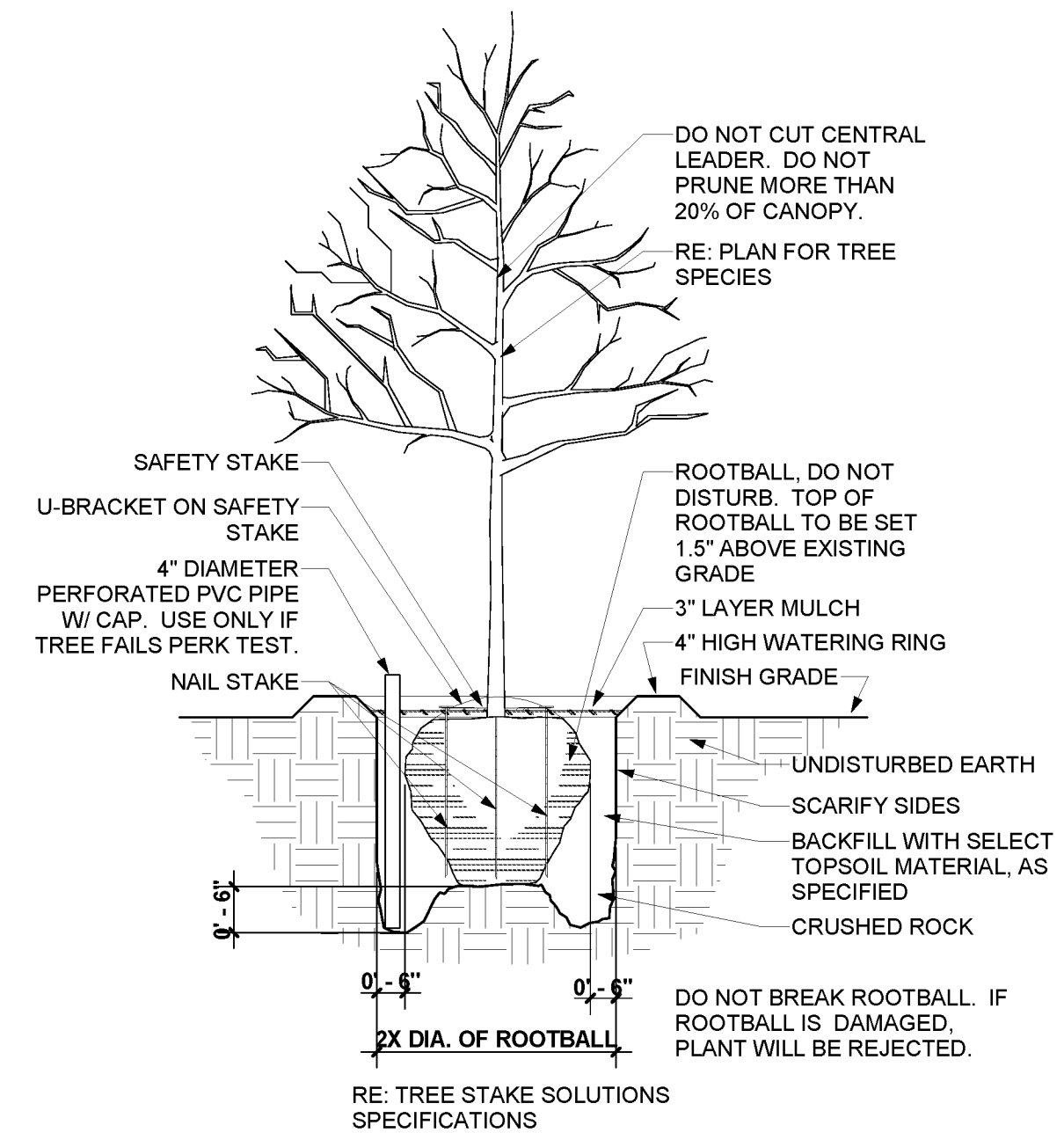


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 BRW PROJECT NUMBER 217079-00

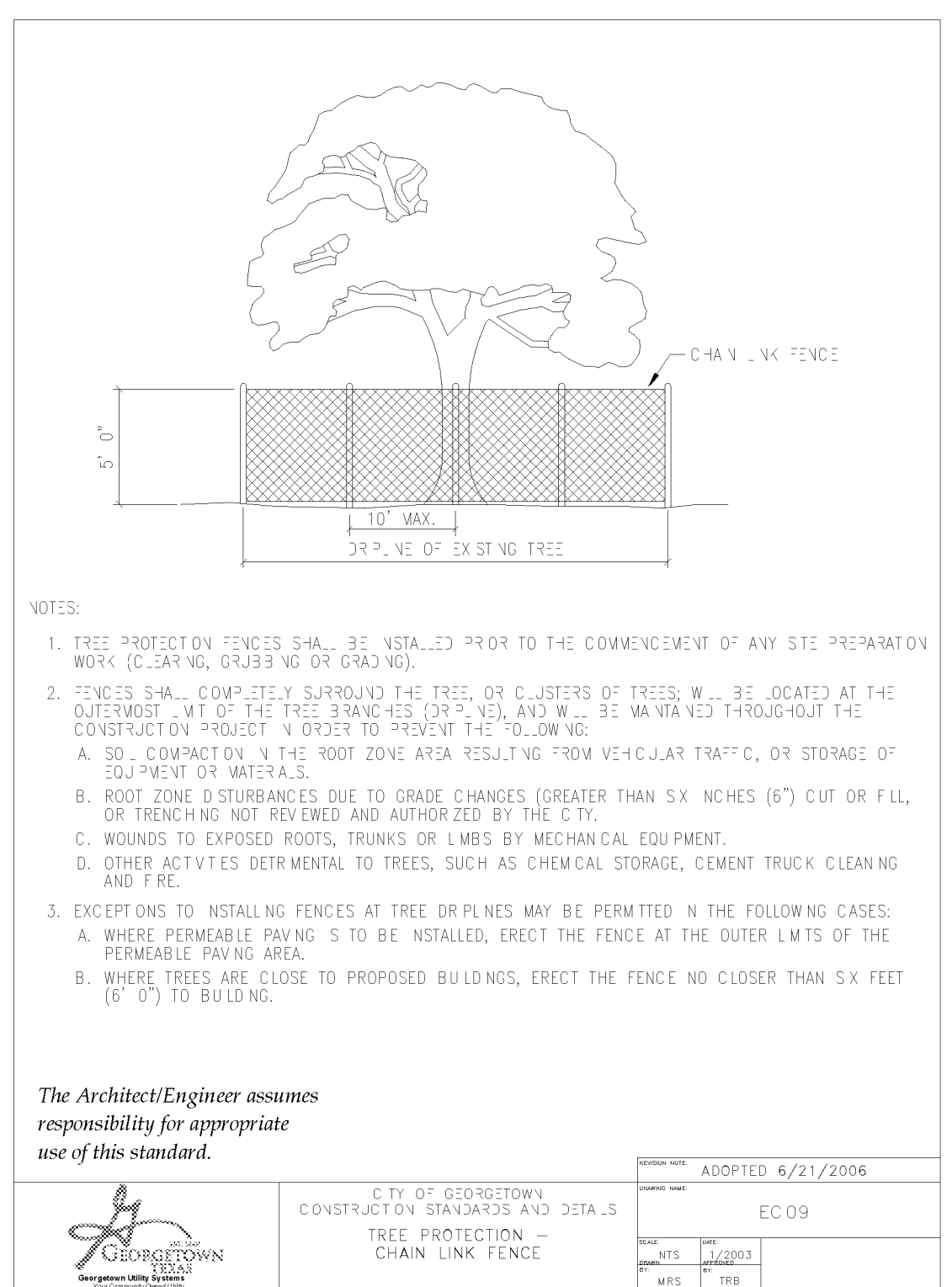
CITY OF GEORGETOWN
 FIRE STATION No. 6
 6700 R.M. 2338
 GEORGETOWN, TX, 78633

NO.	REVISION	DATE

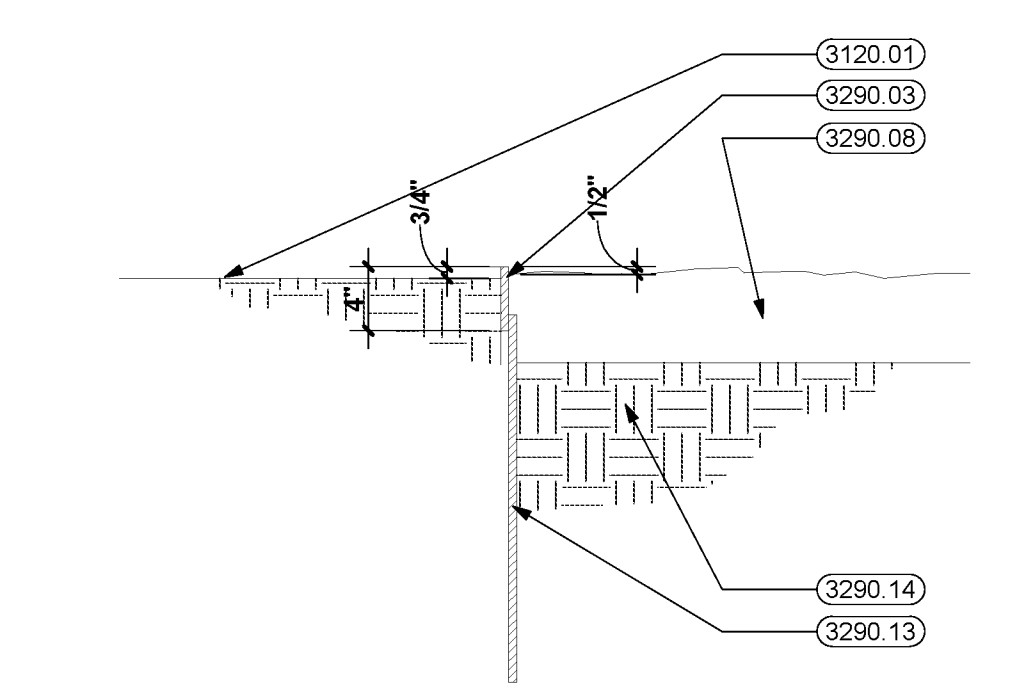
L1.1
 LANDSCAPE PLANS AND DETAILS



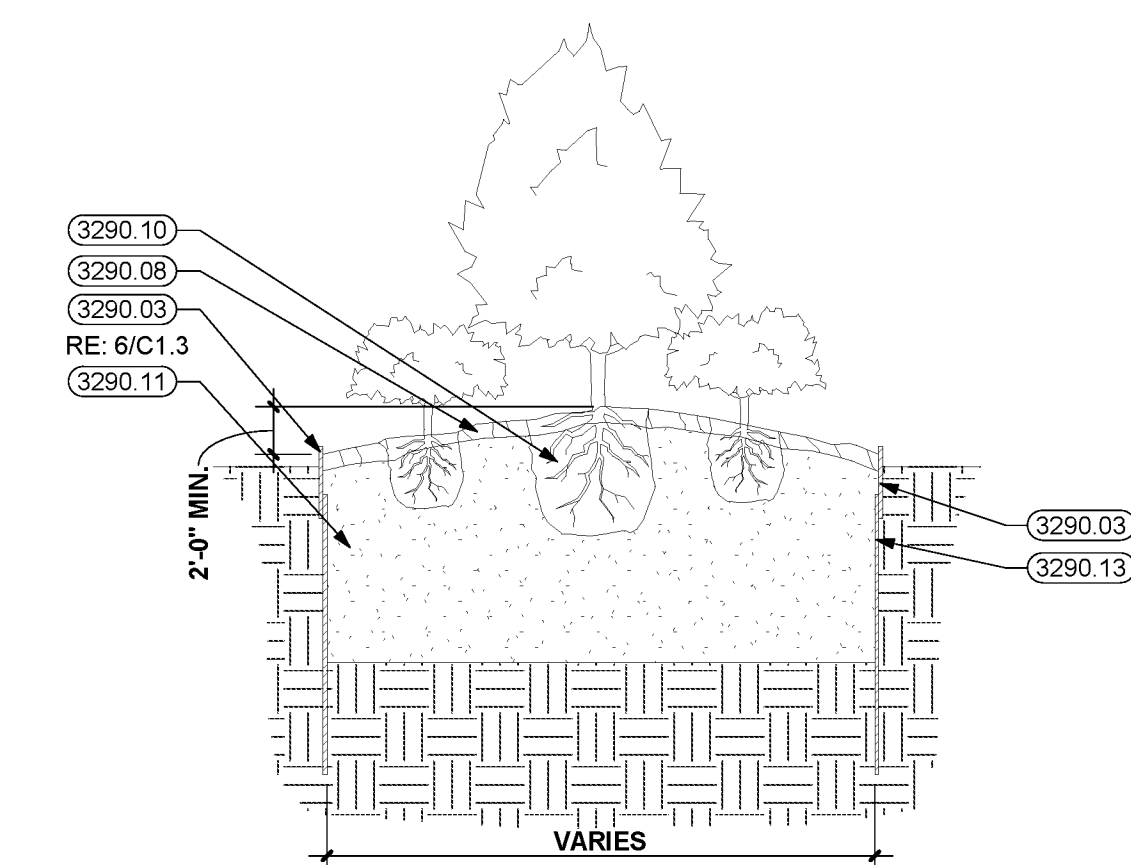
4 LANDSCAPE DETAIL
 1/4" = 1'-0"



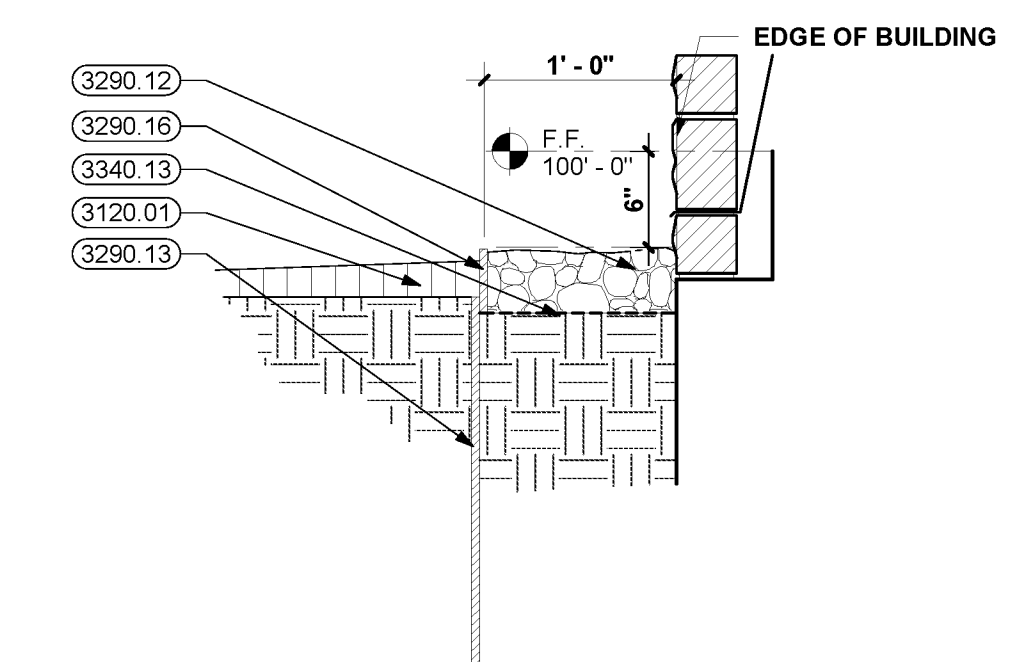
3 TREE PROTECTION DETAIL



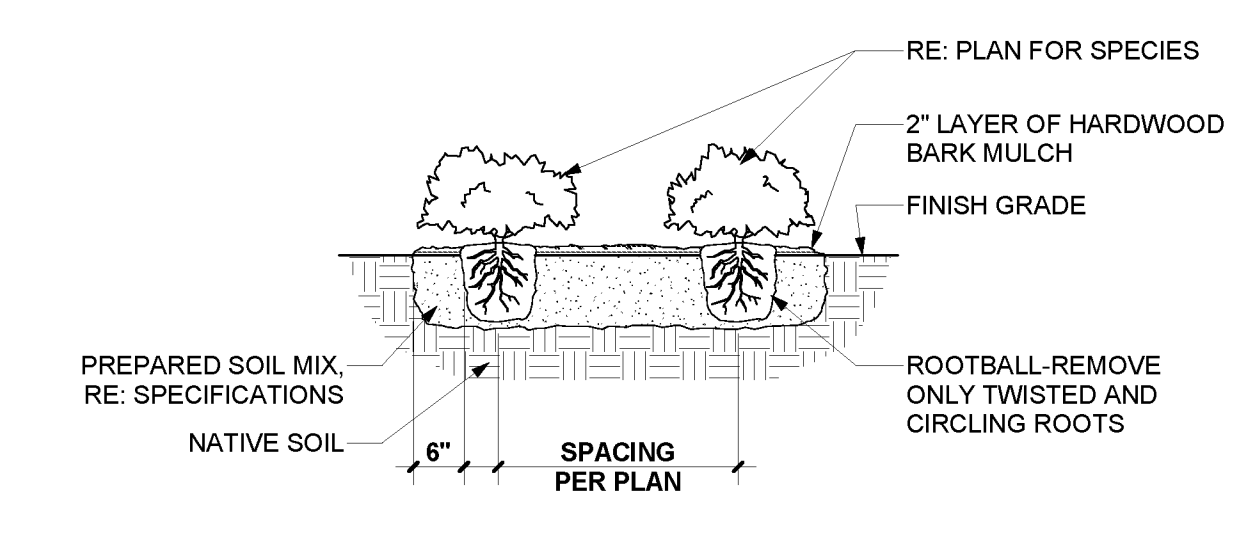
6 LANDSCAPE DETAIL
 1" = 1'-0"



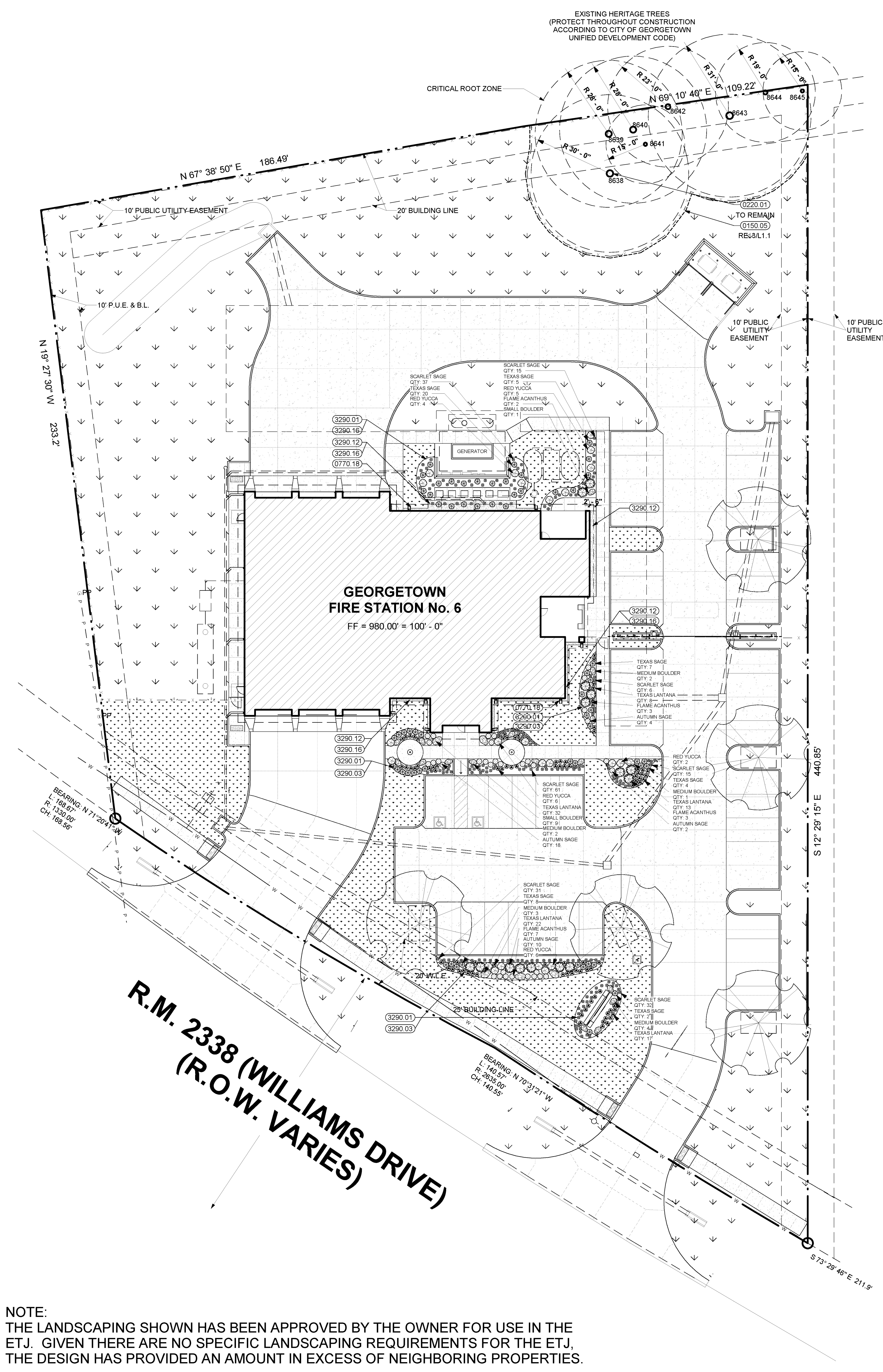
5 LANDSCAPE DETAIL
 1/2" = 1'-0"



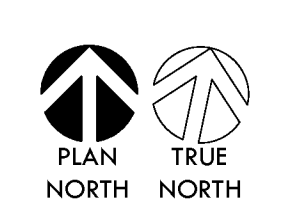
8 LANDSCAPE DETAIL
 1" = 1'-0"



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



NOTE:
 THE LANDSCAPING SHOWN HAS BEEN APPROVED BY THE OWNER FOR USE IN THE ETJ. GIVEN THERE ARE NO SPECIFIC LANDSCAPING REQUIREMENTS FOR THE ETJ, THE DESIGN HAS PROVIDED AN AMOUNT IN EXCESS OF NEIGHBORING PROPERTIES.



1 LANDSCAPE PLAN
 1" = 20'-0"

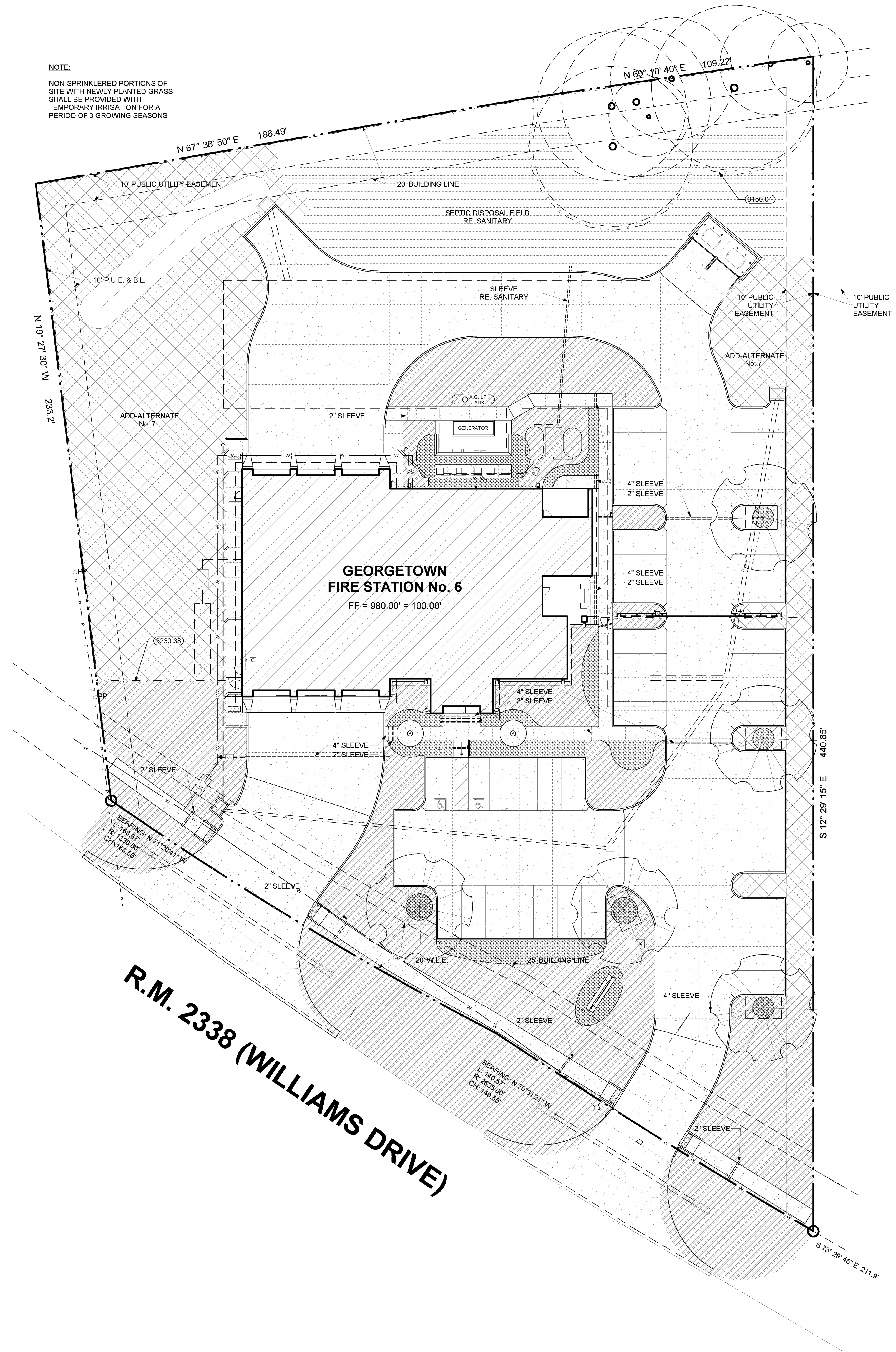


KEYNOTES
 0150.01 TEMPORARY CONSTRUCTION FENCE
 3230.38 DECORATIVE METAL FENCE

LEGEND

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL NO.
	AREA TO BE IRRIGATED WITH SPRAY HEADS / ROTARY HEADS AS BASE-BID	HUNTER	AS REQUIRED, REFERENCE DETAILS AND SPECIFICATIONS
	ADDITIONAL AREA TO BE IRRIGATED WITH SPRAY HEADS / ROTARY HEADS AS ADD-ALTERNATE No. 7	HUNTER	AS REQUIRED, REFERENCE DETAILS AND SPECIFICATIONS
	PLANTING BEDS TO BE IRRIGATED BY BUBBLER/SHORT RADIUS HEADS	HUNTER	AS REQUIRED, REFERENCE DETAILS AND SPECIFICATIONS
	AREA TO BE IRRIGATED BY SEPTIC DISPOSAL SYSTEM	RE: SANITARY	RE: SANITARY
	MAINLINE PIPING	REFER TO SPEC.	CLASS 200 PVC
	BACKFLOW PREVENTER & ENCLOSURE	FEBCO HOTBOX/CITY APPROVED	850 MASTER SERIES POLY ROK PHR2/CITY APPROVED
	FIRE/DOM. WATER METER (RE: CIVIL)	CITY APPROVED	PER LOCAL BUILDING CODE IRRIGATION METER NOT REQUIRED
	CONTROLLER	HUNTER	HUNTER ACC-99D MOUNT AT INTERIOR WALL U.N.O. PROVIDE NECESSARY ICD-XXX DECODERS AS REQUIRED (RE: 8/L1.3)

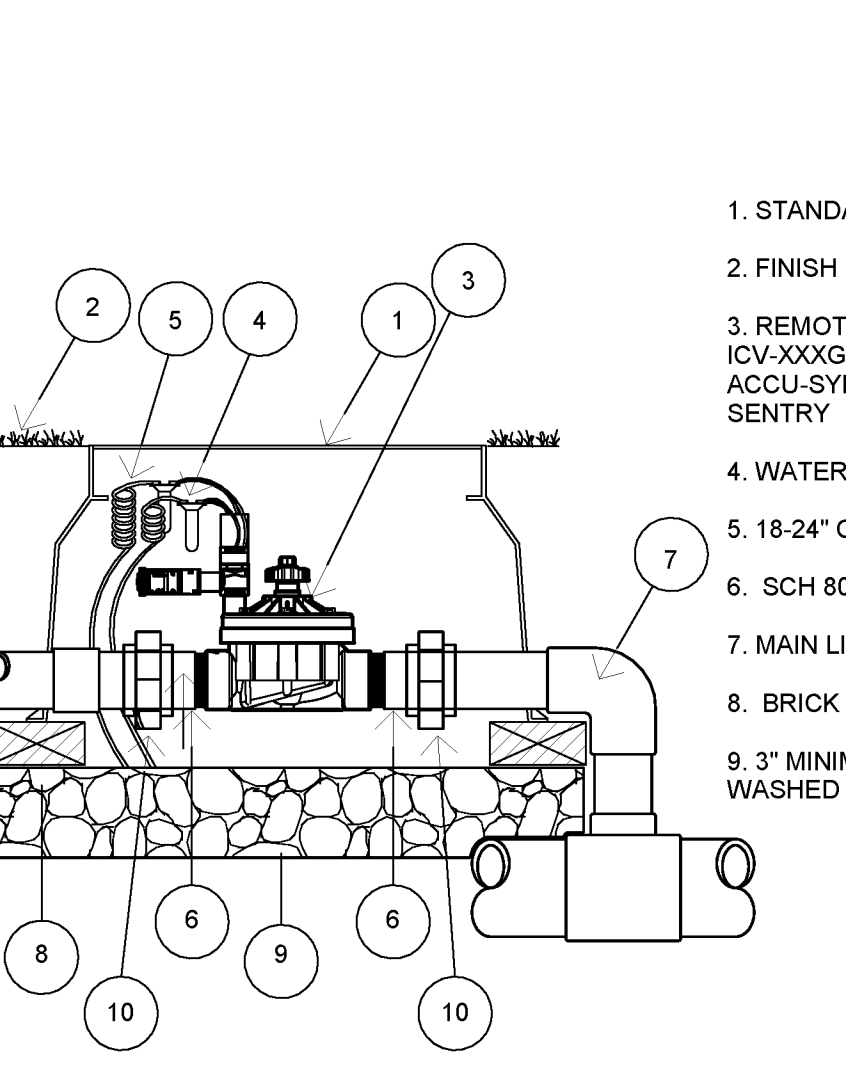
NOTE:
 NON-SPRINKLERED PORTIONS OF SITE WITH NEWLY PLANTED GRASS SHALL BE PROVIDED WITH TEMPORARY IRRIGATION FOR A PERIOD OF 3 GROWING SEASONS



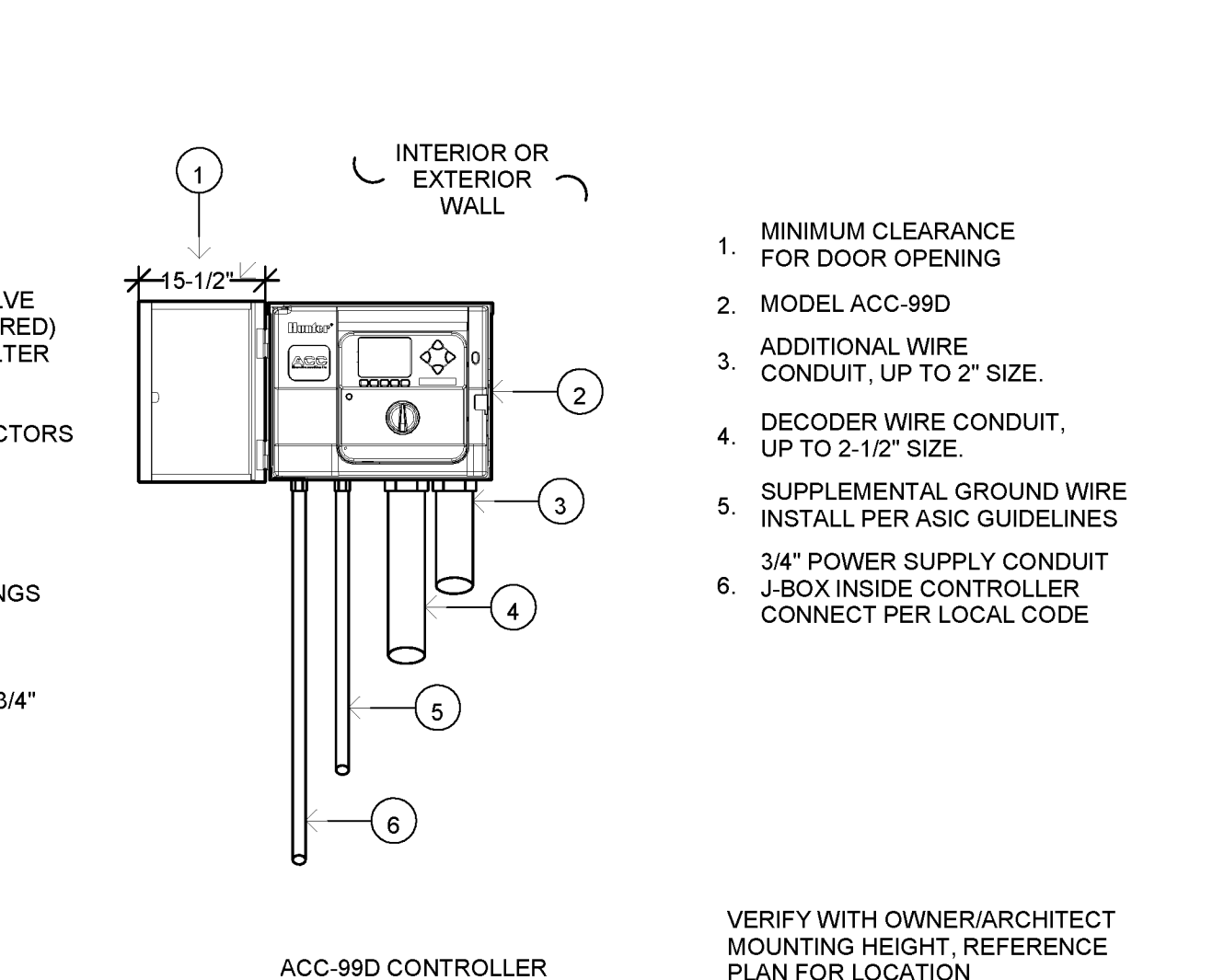
NOTES:

- ALL 24 VOL LEAD AND COMMON VALVE WIRING SHALL BE A MINIMUM OF UF-14 GA. SINGLE CONDUCTOR. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR PROPER WIRE SIZE. WIRE SPLICES SHALL BE PERMANENT AND WATERPROOF.
- COORDINATE INSTALLATION OF IRRIGATION SYSTEM WITH LANDSCAPE CONTRACTOR TO ENSURE ALL PLANT MATERIAL WILL BE WATERED IN ACCORDANCE WITH THE INTENT OF THE PLANS AND SPECIFICATIONS.
- LATERAL PIPING SHALL HAVE A MINIMUM OF 12 INCHES OF COVER. MAINLINE AND PIPING UNDER PAVING SHALL HAVE A MINIMUM OF 18 INCHES COVER.
- PIPING AND VALVES IN PAVING SHOWING FOR CLARITY. INSTALL IN ADJACENT PLANTING BED OF LAWN AREA.
- CONNECT LAWN AND HIGH-POP SPRAY HEADS TO LATERAL PIPING WITH 1/2" FLEXIBLE PVC AND 1/2" SCH. 40 PVC FITTINGS AS REQUIRED. PER DETAIL SHOWN. USE WELD-ON #795 SOLVENT AND #P070 PRIMER ON THESE CONNECTIONS.
- CONNECT ROTARY HEADS TO LATERAL PIPE WITH LASCO UNITIZED, O-RING SWING JOINTS PER DETAIL SHOWN. SUPPLY OWNER WITH THREE (3) COUPLER KEYS WITH SWIVEL HOSE ELLS EACH.
- INSTALL QUICK COUPLING VALVES ON 10" VALVE BOX PER DETAIL SHOWN. CONNECT QUICK COUPLING VALVES TO MAINLINE PIPE WITH LASCO UNITIZED, O-RING SWING JOINTS PER DETAIL SHOWN. SUPPLY OWNER WITH THREE (3) COUPLER KEYS WITH SWIVEL HOSE ELLS EACH.
- INSTALL REMOTE CONTROL VALVES IN 10" VALVE BOXES PER DETAIL SHOWN.
- PERFORM ELECTRICAL WORK IN ACCORDANCE WITH LOCAL BUILDING CODE. POWER (120V) SHALL BE LOACED IN A JUNCTION BOX WITHIN 5 FEET OF CONTROLLER LOCATION BY OTHER TRADES.
- SLEEVES SHALL BE CLASS 200 PVC, LAG BOLTS PLACED IN SIDEWALK AT ENDS OF SLEEVES AND INSTALLED BY OTHER TRADES. PROVIDE ADDITIONAL SLEEVES NOT SHOWN ON PLANS FOR A COMPLETE AND FUNCTIONAL IRRIGATION SYSTEM.
- ROUTE COMMON WIRE FROM CONTROLLER TO REMOTE SENSORS IN SERIES PRIOR TO CONNECTIONS TO REMOTE CONTROL VALVES.
- INSTALL ADEQUATE NUMBER OF BUBBLER/SPRAY HEADS FOR EACH SHRUB / TREE IN LANDSCAPE BEDS.
- TEN DAYS PRIOR TO START OF CONSTRUCTION, VERIFY STATIC PRESSURE. IF STATIC PRESSURE IS LESS THAN 110 PSI, DO NOT START WORK UNTIL NOTIFIED TO PROCEED BY OWNER. DESIGN PRESSURE IS 65.0 PSI.
- INSTALL PRESSURE REDUCING VALVE IN A 12"x17" VALVE BOX WITHIN FIVE (5) FEET OF ANY BACKFLOW PREVENTOR. DISCHARGE PRESSURE REDUCING VALVE TO BE SET AT APPROX. 80 PSI.
- ALL WORK INCLUDED IN THE INSTALLATION OF THE IRRIGATION SYSTEM SHALL BE PERFORMED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
- THE INSTALLATION OF THE IRRIGATION SYSTEM WILL BE MADE BY AN INDIVIDUAL OR FIRM DULY LICENSED AS AN IRRIGATOR BY THE STATE OF TEXAS.
- DOUBLE-CHECK BACK FLOW PREVENTOR SHALL BE INSTALLED AND TESTED UPON INSTALLATION BY A CERTIFIED BACKFLOW TESTER.
- MAXIMUM LENGTH OF DRIP LINE SHALL BE 275 FEET.
- THE MAXIMUM SPACING BETWEEN EMISSION DEVICES MUST NOT EXCEED THE MANUFACTURER'S PUBLISHED RADIUS OR SPACING OF THE DEVICE(S).
- THE IRRIGATION SYSTEMS SHALL NOT UTILIZE ABOVE-GROUND SPRAY EMISSION DEVICES IN LANDSCAPES THAT ARE LESS THAN 48 INCHES NOT INCLUDING THE IMPERVIOUS SURFACES IN EITHER LENGTH OR WIDTH AND WHICH CONTAIN IMPERVIOUS PEDESTRIAN OR VEHICULAR TRAFFIC SURFACES ALONG TWO OR MORE PERIMETERS.
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- COVERAGE OF PIPING MUST BE INSTALLED TO PROVIDE MINIMUM DEPTH COVERAGE OF SIX INCHES OF SELECT BACKFILL, BETWEEN THE TOP OF PIPE AND THE NATURAL GRADE OF THE TOP SOIL.
- UNDERGROUND ELECTRICAL WIRING THAT CONNECTS AN AUTOMATIC CONTROLLER TO ANY ELECTRICAL COMPONENT OF THE IRRIGATION SYSTEM MUST BE BURIED WITH A MINIMUM OF SIX INCHES OF SELECT BACKFILL.
- ALL IRRIGATION LINES RUNNING UNDER SITE PAVING SHALL BE SLEEVED.

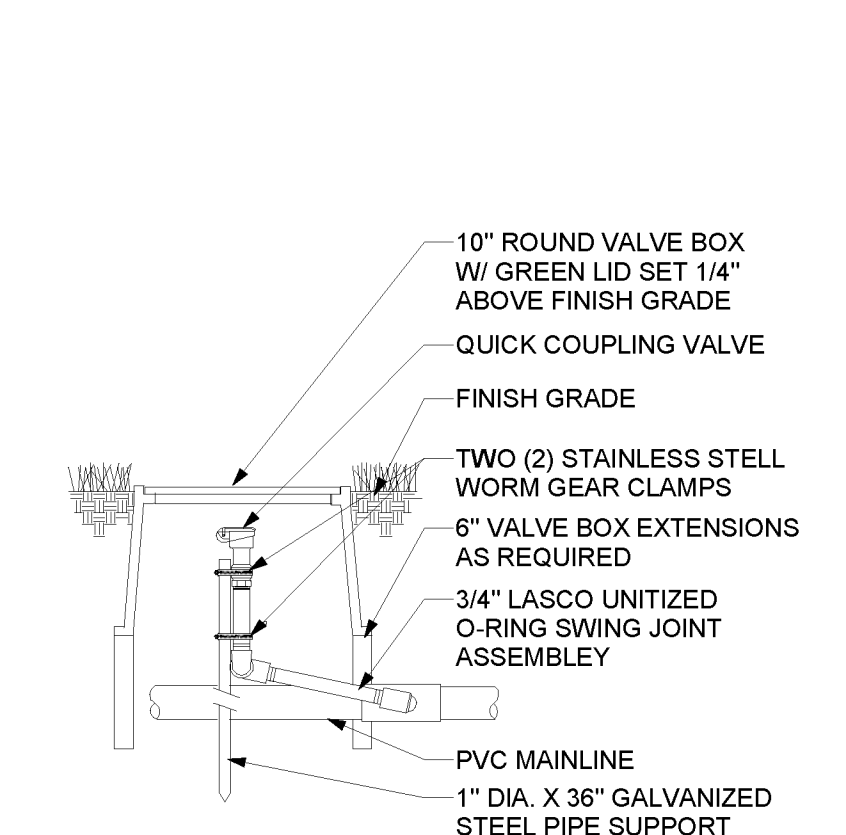
3 PAVING DETAIL



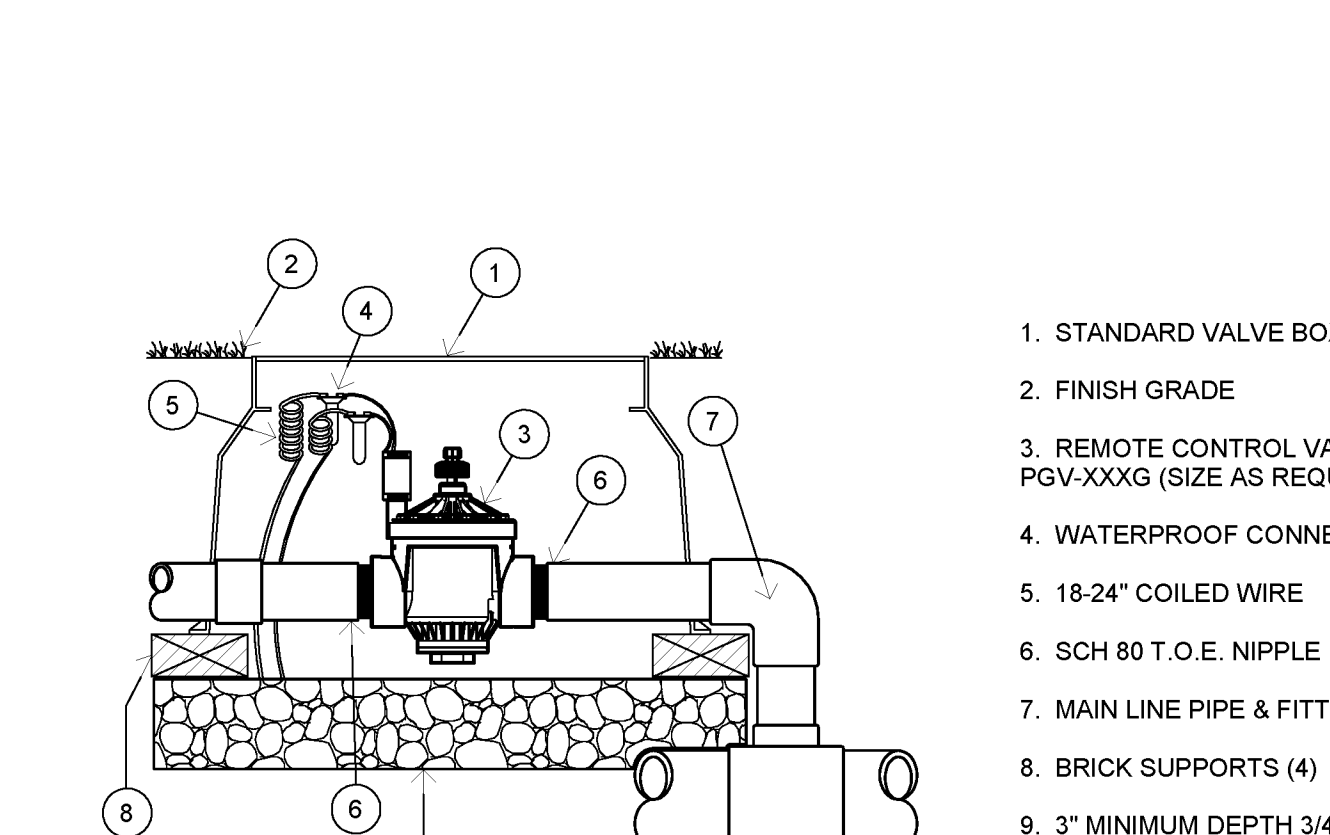
2 IRRIGATION BACKFLOW PREVENTER



5 IRRIGATION CONTROL VALVE



4 IRRIGATION CONTROLLER



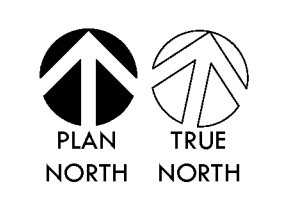
7 QUICK COUPLING VALVE



6 IRRIGATION VALVE



1 IRRIGATION PLAN
 1" = 20'-0"



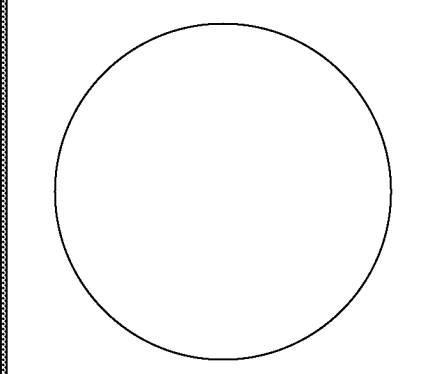
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 DATE 11/16/2018
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 BRW PROJECT NUMBER 217079.00

CITY OF GEORGETOWN
 FIRE STATION No. 6
 6700 R.M. 2338
 GEORGETOWN, TX, 78633

NO.	REVISION	DATE



BROWN REYNOLDS WATFORD ARCHITECTS
 172 CENTURY SQUARE DRIVE
 SUITE 330
 GEORGETOWN, TEXAS 77640
 979-894-1791
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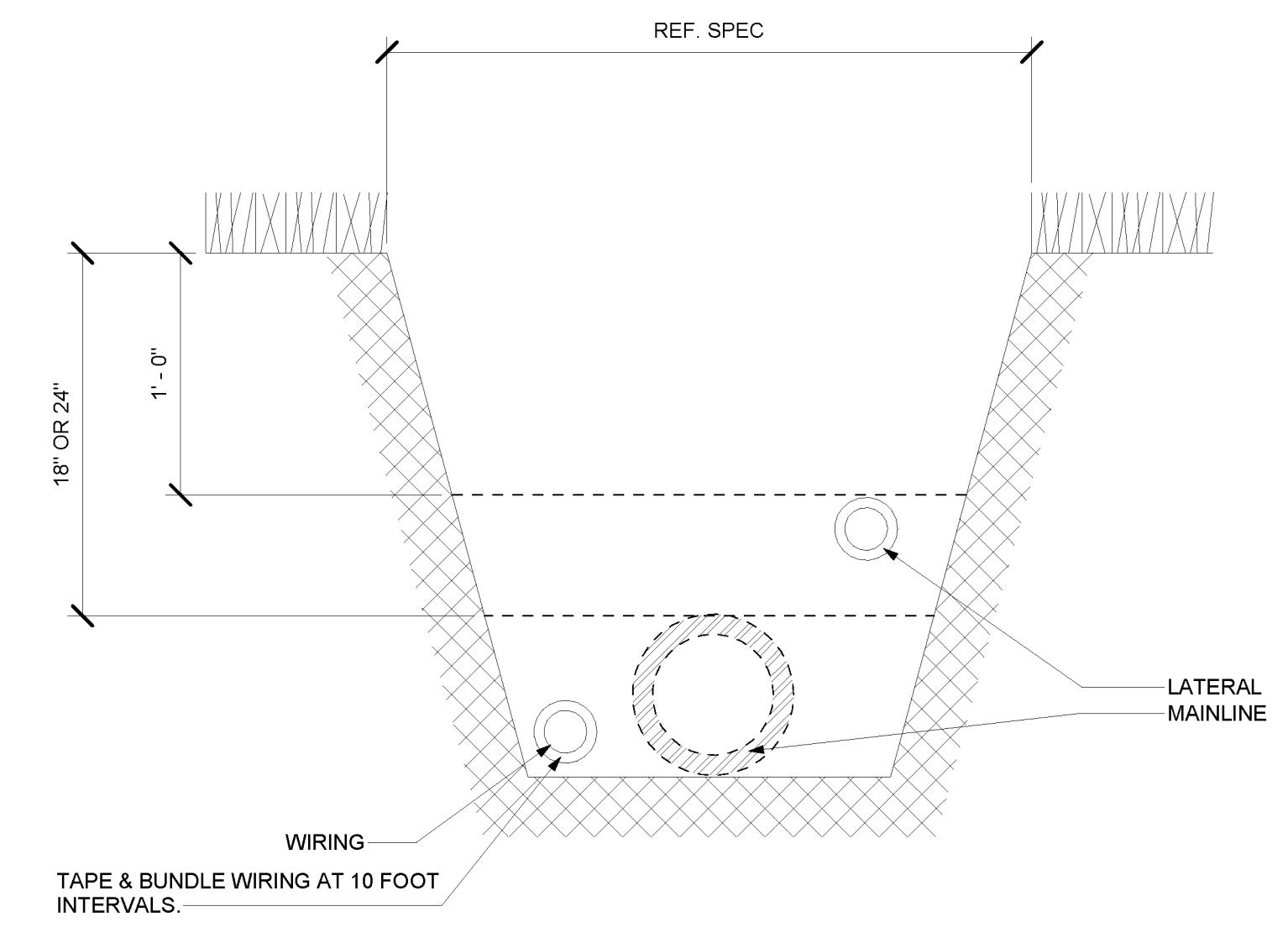
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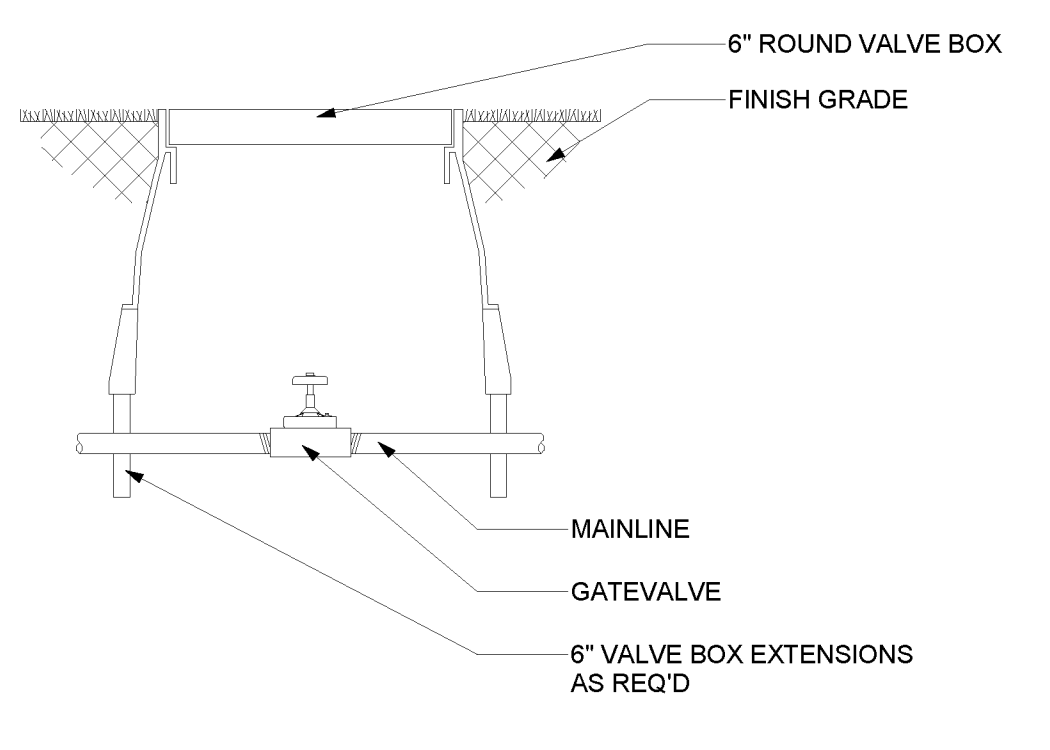
L1.3

NOTES:

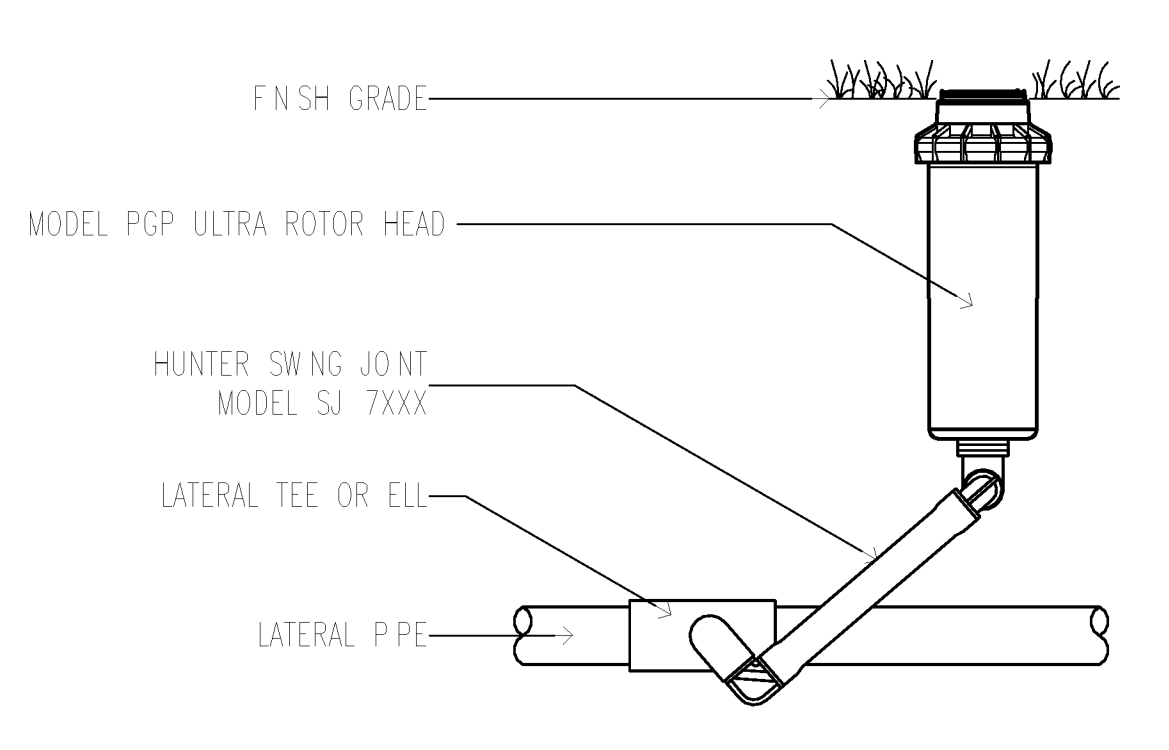
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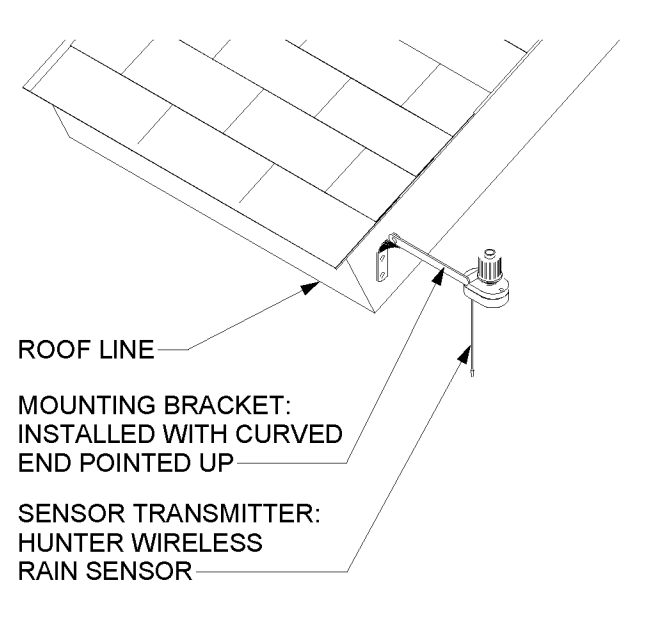
1 TRENCHING DETAIL



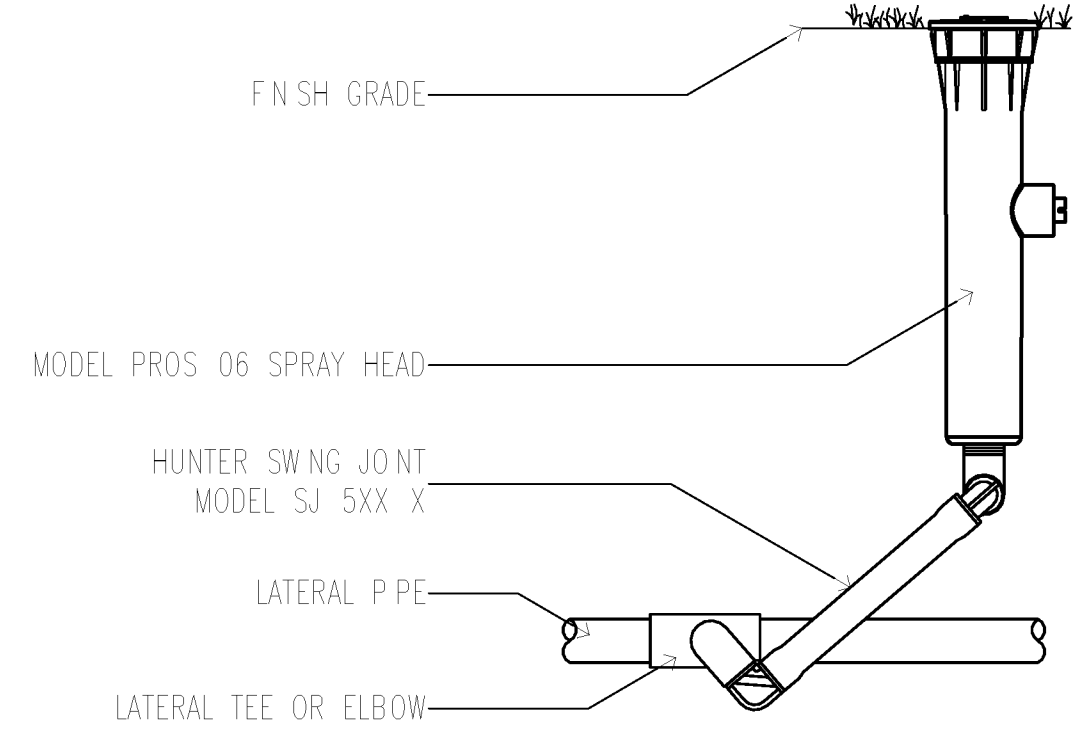
5 IRRIGATION VALVE



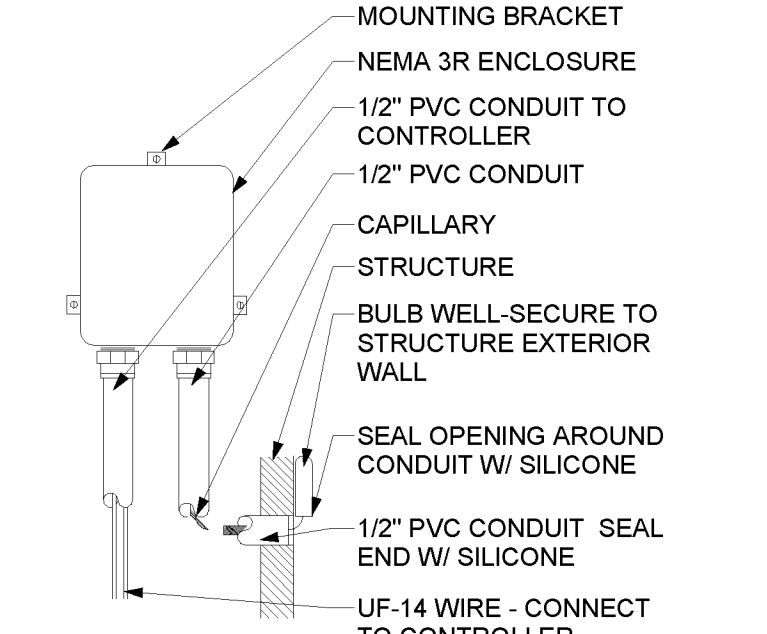
2 ROTOR HEAD



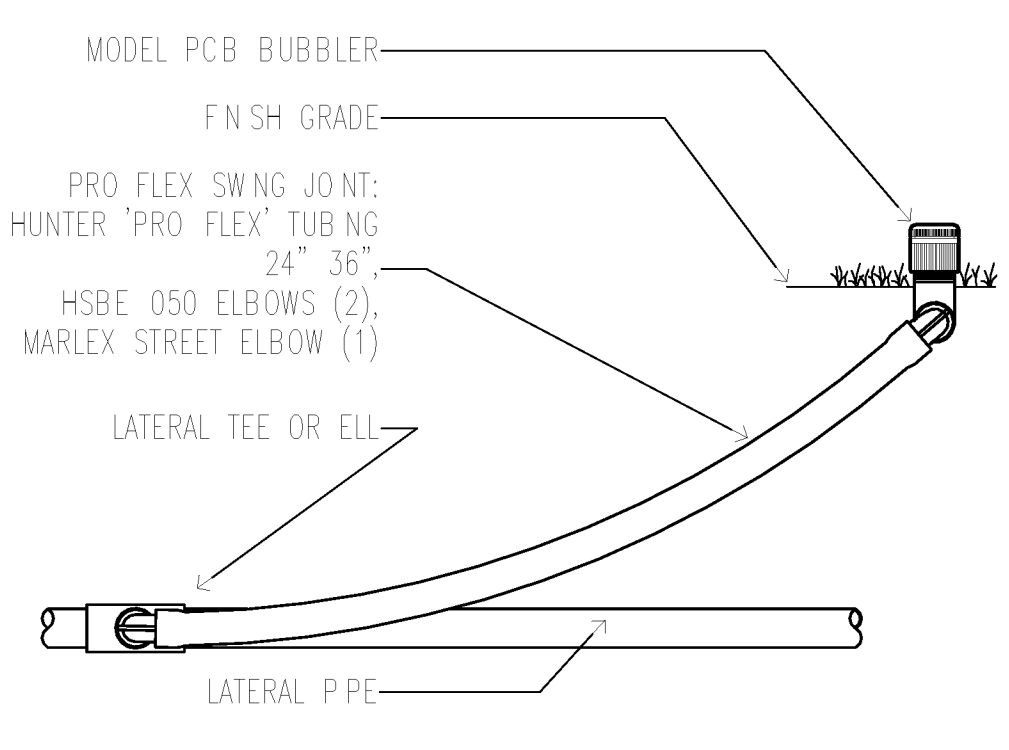
6 RAIN SENSOR



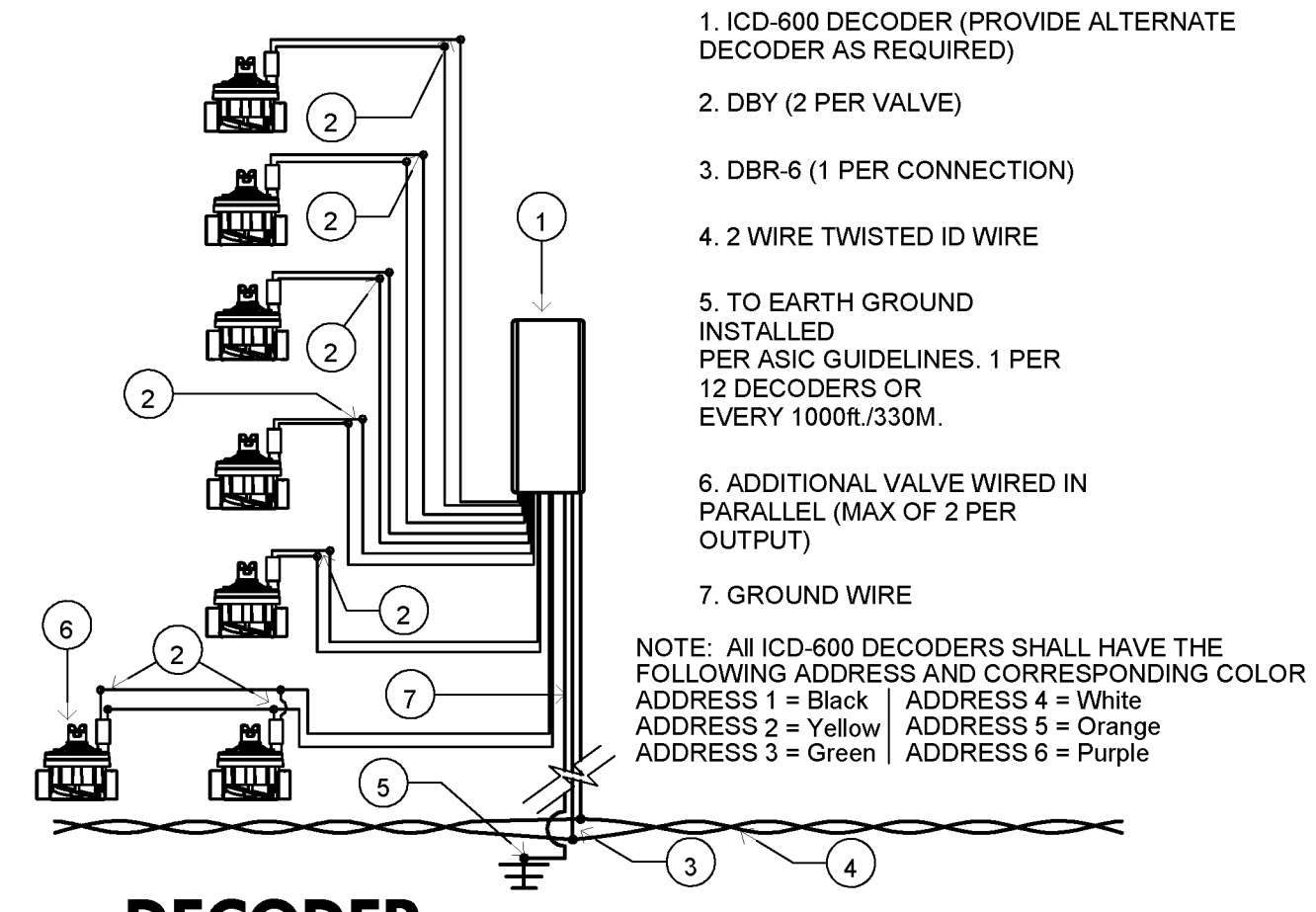
3 SPRAY HEAD
3" = 1'-0"



7 TEMPERATURE SENSOR

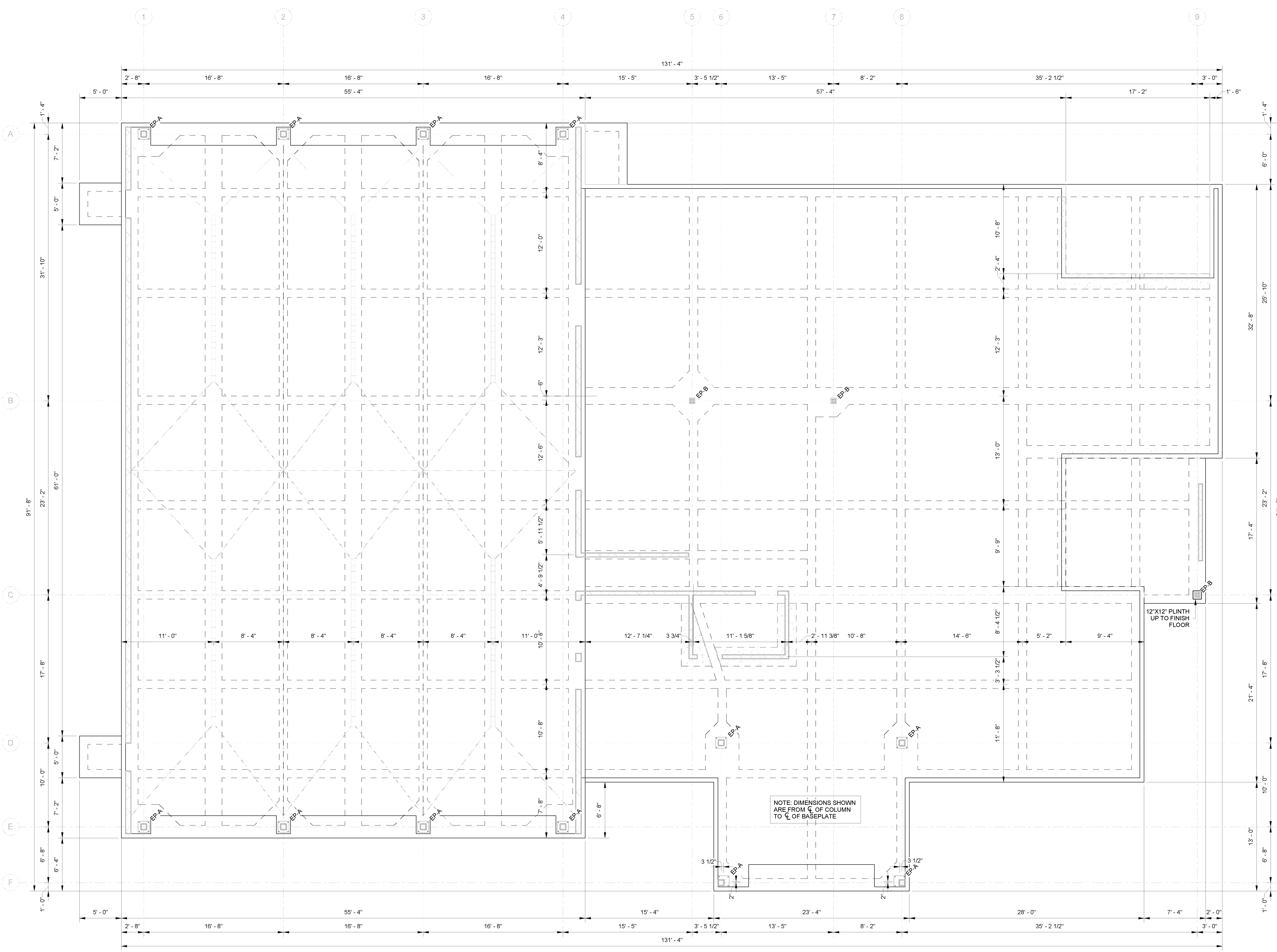


4 EMITTER DETAIL

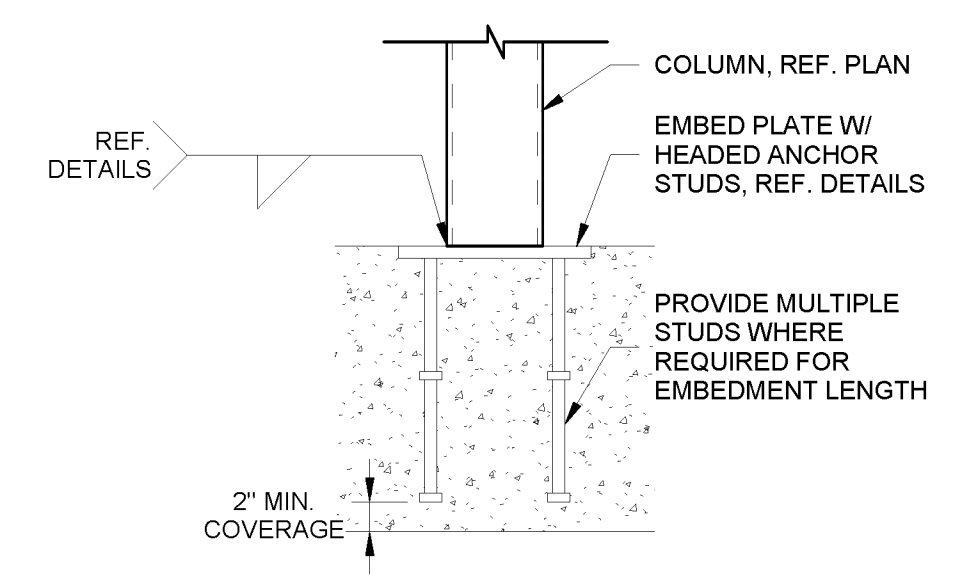


8 DECODER
3" = 1'-0"

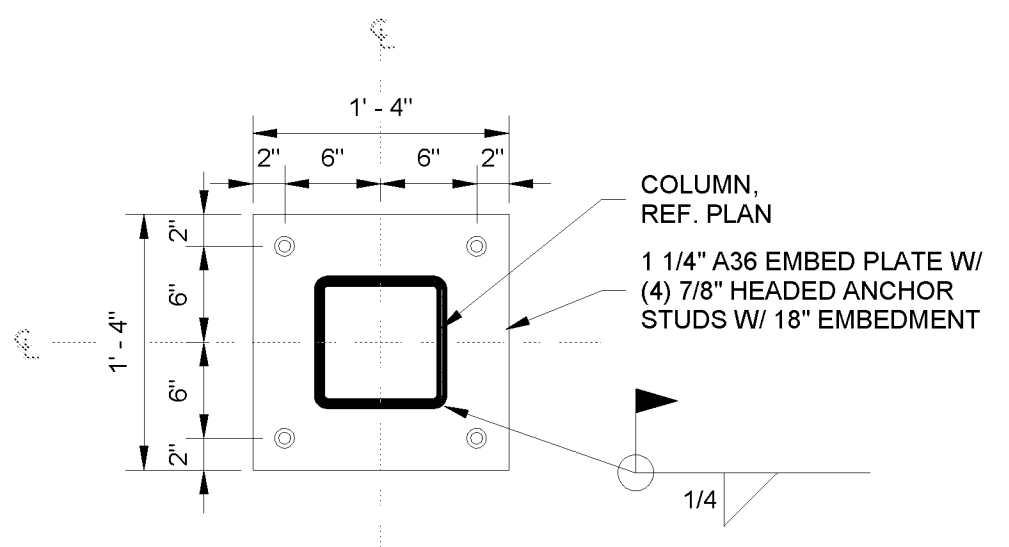
- NOTES:**
- REFERENCE S0 0 NOTES FOR ADDITIONAL SPECIFICATIONS.
 - CONTRACTOR SHALL VERIFY LOCATIONS AND TYPES OF PLUMBING FIXTURES WITH ARCHITECTURAL DRAWINGS PRIOR TO COMMENCING CONSTRUCTION.
 - VERIFY ALL DIMENSIONS WITH ARCHITECT AND OWNER PRIOR TO COMMENCING CONSTRUCTION.
- LEGEND:**
- STRUCTURAL CMU WALL ABOVE, REF. 7/SS.2
 - TRENCH DRAIN, REF. ARCH



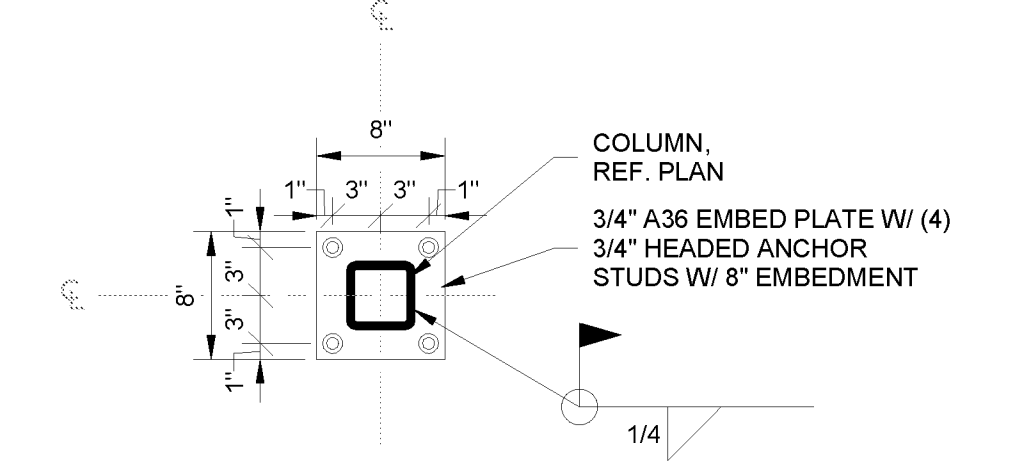
NOTE: COLUMN TO BE CENTERED ON PLATE UNLESS NOTED OTHERWISE, REF. PLAN FOR COLUMNS NOT CENTERED ON PLATE



4 TYPICAL EMBED PLATE ELEVATION
1" = 1'-0"

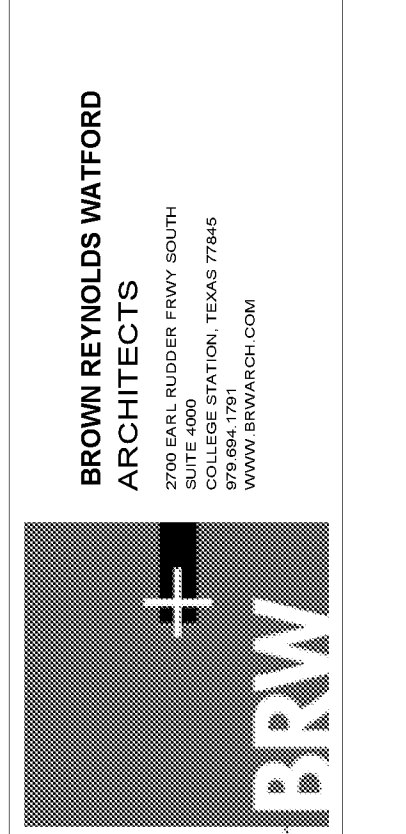


2 EP-A
1" = 1'-0"



3 EP-B
1" = 1'-0"

1 EMBED PLATE PLAN
3/16" = 1'-0"



CORPORATE OFFICE
2501 ASHFORD DRIVE
COLLEGE PARK, TEXAS 78400
1-877-GESSNER (437-7637)
www.gessnerengineering.com
FIRM REGISTRATION NUMBERS:
18PE-7451, 18PE-CP-1015910




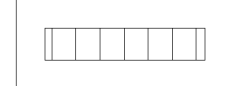
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PROJECT NO. 217079.00

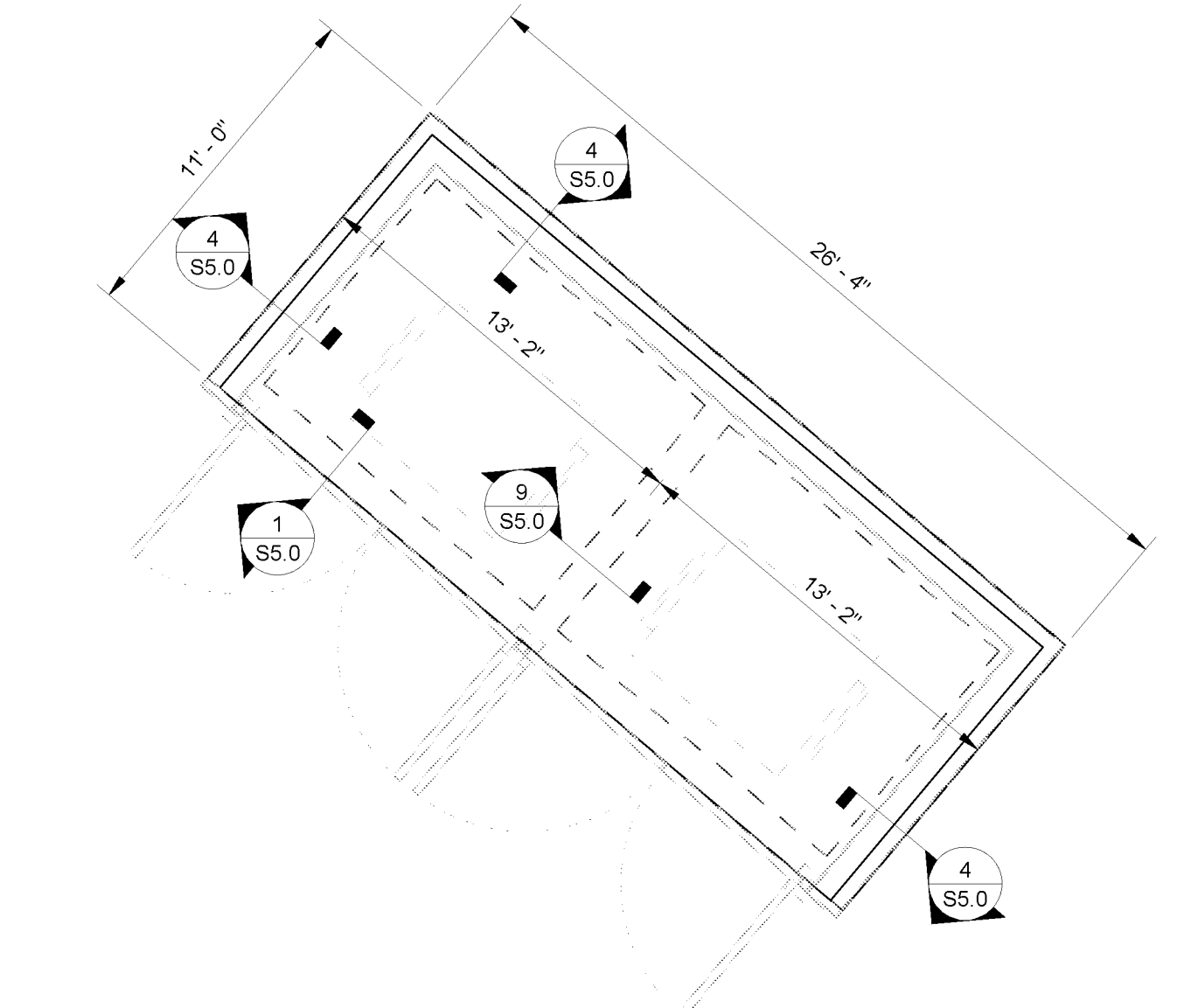
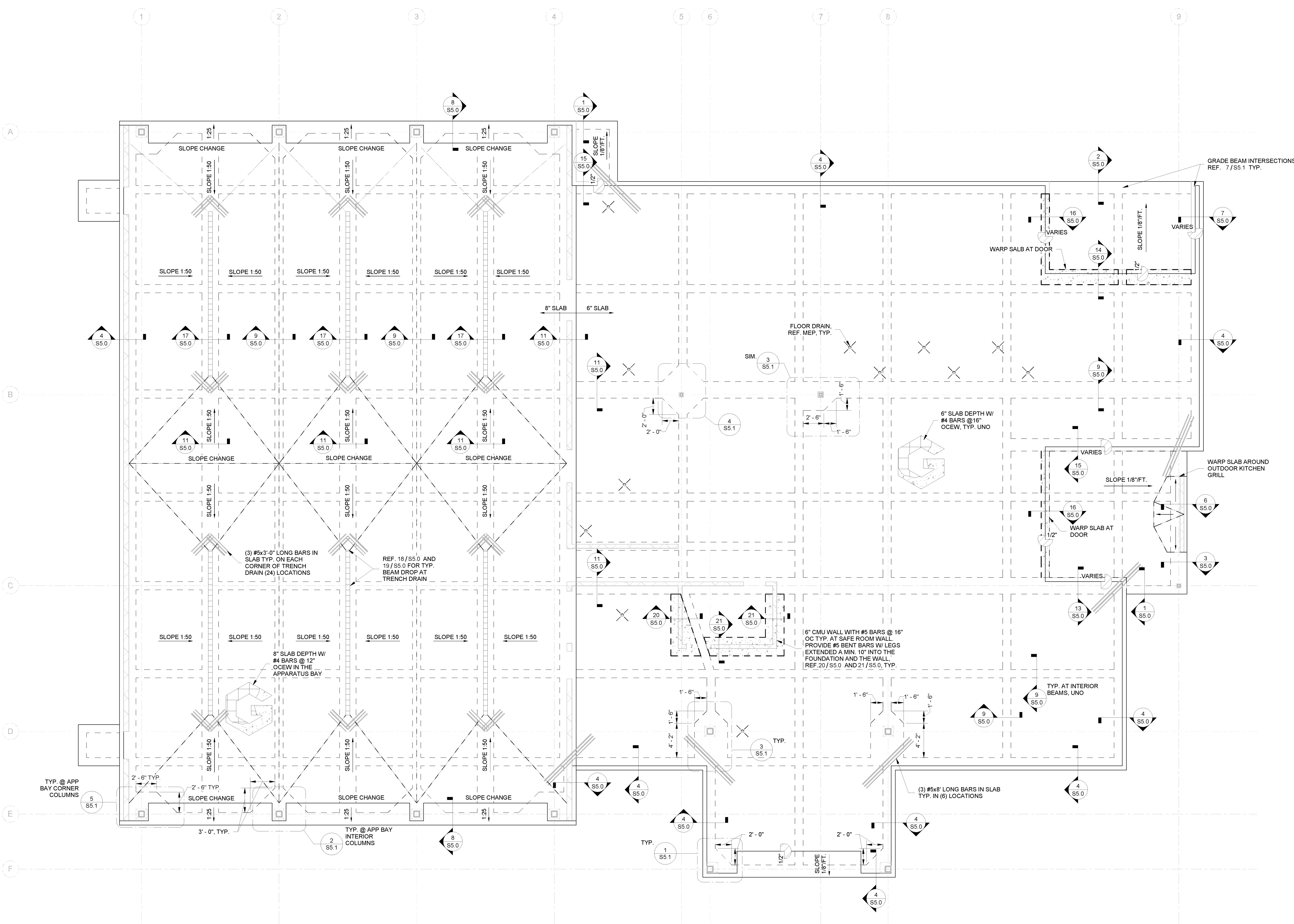
WILLIAMSON CO. ESD 8 / CITY OF GEORGETOWN
GEORGETOWN FIRE STATION No. 6
6700 R.M. 2338
GEORGETOWN, TX 78626



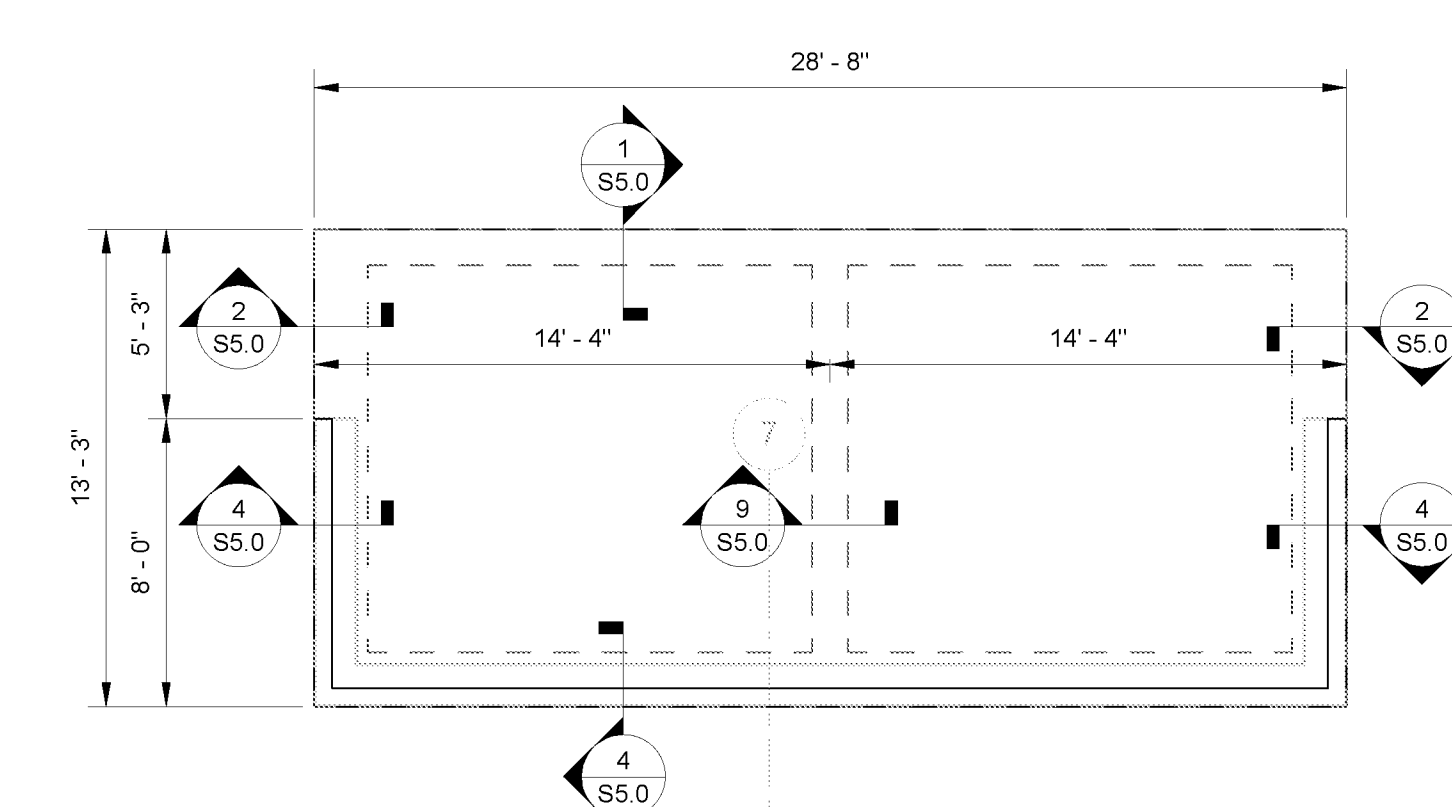
NO.	DESCRIPTION	DATE

NOTES:
 1. REFERENCE S0.0 NOTES FOR ADDITIONAL SPECIFICATIONS.
 2. CONTRACTOR SHALL VERIFY LOCATIONS AND TYPES OF PLUMBING FIXTURES WITH ARCHITECTURAL DRAWINGS PRIOR TO COMMENCING CONSTRUCTION.
 3. VERIFY ALL DIMENSIONS WITH ARCHITECT AND OWNER PRIOR TO COMMENCING CONSTRUCTION.

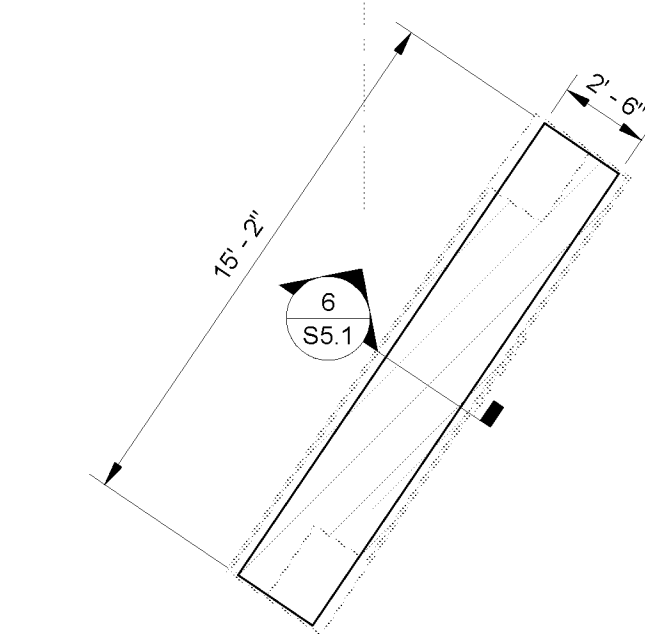
LEGEND:
 STRUCTURAL CMU WALL ABOVE, REF. 7/S5.2
 TRENCH DRAIN, REF. ARCH



2) DUMPSTER PAD FOUNDATION
 3/16" = 1'-0"

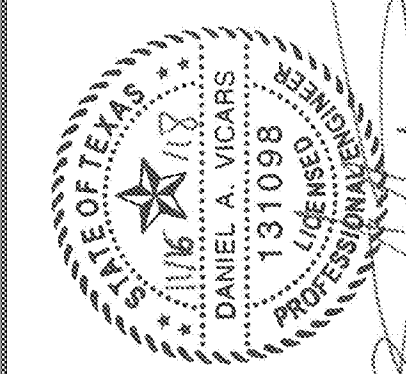


3) GENERATOR PAD FOUNDATION
 3/16" = 1'-0"



4) SIGN FOUNDATION
 3/16" = 1'-0"

1) FOUNDATION PLAN
 3/16" = 1'-0"



GESSNER ENGINEERING
 CORPORATE OFFICE
 2501 ASHFORD DRIVE
 COLLEGE PARK, TEXAS 77424
 CALL 1-877-GESSNER (437-7637)
 WWW.GESSNERENGINEERING.COM
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 18PE-7451, 18PE-CP-1015910

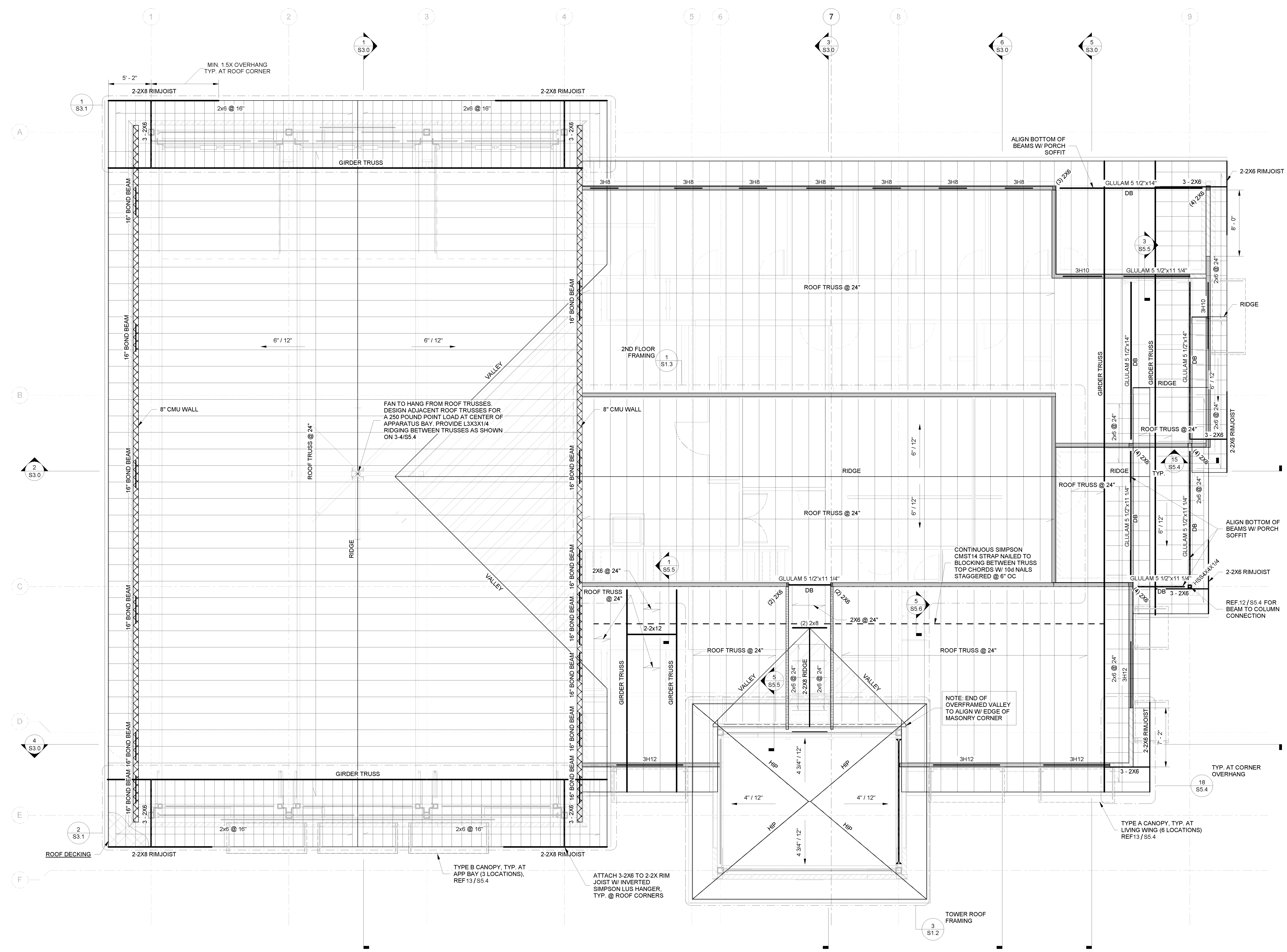


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 PROJECT NO. 21707900

WILLIAMSON CO. ESC 8 / CITY OF GEORGETOWN
GEORGETOWN FIRE STATION No. 6
 6700 R.M. 2338
 GEORGETOWN, TX 78626



NO.	DESCRIPTION	DATE



- GENERAL FRAMING NOTES:**
- REFERENCE S0.0 NOTES FOR ADDITIONAL SPECIFICATIONS.
 - ALL GLULAM BEAMS SHALL BE 30F-2.1E SOUTHERN YELLOW PINE, UNO.
 - ALL LUMBER SHALL BE SOUTHERN YELLOW PINE, #2 UNO.
 - ALL WOOD HEADERS SHALL BE MULTI 2X TO MATCH WALL THICKNESS, OR FURRED OUT TO MATCH THE WALL THICKNESS.
 - ALL FLOOR AND ROOF TRUSSES SHALL BEAR AT ENDS ONLY, UNLESS AN INTERIOR BEARING WALL IS SPECIFICALLY NOTED ON PLAN.
 - ALL STUDS SHALL BE CONTINUOUS BETWEEN HORIZONTAL SUPPORTS WHICH MAY BE BUT ARE NOT LIMITED TO: FLOOR DIAPHRAGM ASSEMBLIES, ROOF DIAPHRAGM ASSEMBLIES, OR TOP PLATES BRACED TO DIAPHRAGM ASSEMBLIES.
 - ALL INTERIOR PARTITION WALLS SHALL BE A MINIMUM 1/2\" SHORT OF THE ROOF FRAMING AND BRACED TO THE ROOF STRUCTURE PER 7/SS.4. WHERE WALLS STOP SHORTER BELOW THE BOTTOM CHORD OF TRUSSES, BRACE PARTITION WALLS TO TRUSSES W/ 2X FRAMING AS REQUIRED.
 - ALL CMU WALLS SHALL BE REINFORCED AS NOTED ON THE NOTES PAGE, UNO, AND SHALL HAVE A CONTINUOUS BOND BEAM IN ACCORDANCE WITH 10/SS.2.
 - GESSNER ENGINEERING SHALL BE CONTACTED FOR REVIEW AND/OR REDESIGN WHEN CHANGES IN MEMBER SIZES AND/OR LOCATIONS ARE DESIRED.
 - ALL STONE LINTELS LESS THAN 10' - 0\" IN LENGTH SHALL BE A MINIMUM L6X4X3/8. FOR LENGTHS GREATER THAN 10' - 0\", CONTACT GESSNER ENGINEERING FOR ADDITIONAL INFORMATION.
 - WHERE UPLIFT CONNECTORS ARE ATTACHED FROM ROOF TRUSSES OR RAFTERS TO TOP PLATES, STUDS SHALL BE ATTACHED TO TOP PLATES AND SILL PLATES WITH UPLIFT CONNECTORS SPECIFIED IN THE FRAMING DETAILS.
 - SILL PLATES FOR EXTERIOR WALLS, INTERIOR BEARING WALLS, AND SHEAR WALLS TO BE ANCHORED WITH 3/8\" ANCHOR BOLTS WITH 3\"X3\"X1/4\" PLATE WASHERS, REF. SILL PLATE ANCHORAGE DETAIL.
- LEGEND:**
- 2X6 BEARING WALL W/ STUDS @ 16\" OC
 - 2X6 BEARING WALL W/ STUDS @ 12\" OC
 - 2X4 BEARING WALL W/ STUDS @ 16\" OC
 - STRUCTURAL CMU WALL, REF. S2.0 FOR GROUT AND REINFORCEMENT SPACING
 - TRUSS OVERFRAMING LOCATION
 - MOMENT FRAME CONNECTION

UPLIFT CONNECTION TABLE

LOCATION	RAFTER/ROOF TO TOP PLATE	TOP PLATE TO STUD	STUD TO SILL PLATE	FLOOR TO FLOOR
DETAIL REF.	1/SS.3	1/SS.3	14/SS.3	14/SS.4
AT GABLE END W/ OUTRIGGERS	48\" OC	48\" OC	48\" OC	48\" OC
AT ROOF TRUSS	24\" OC	24\" OC	24\" OC	24\" OC

- NOTE:**
- ALL CLIPS, CONNECTORS, AND HANGERS ARE TO BE MANUFACTURED BY SIMPSON STRONGTIE, OR APPROVED EQUAL UNO.
 - AT OPENINGS IN EXTERIOR WALLS & LOAD BEARING INTERIOR WALL, REF. 13/SS.3 FOR HEADER CONNECTIONS.
 - FOR PORCH TRUSS CONNECTION, REF. 3/SS.3.
 - CONTINUE ROOF DECKING ON LOWER ROOF FRAMING BELOW ALL OVERFRAMED LOCATIONS.

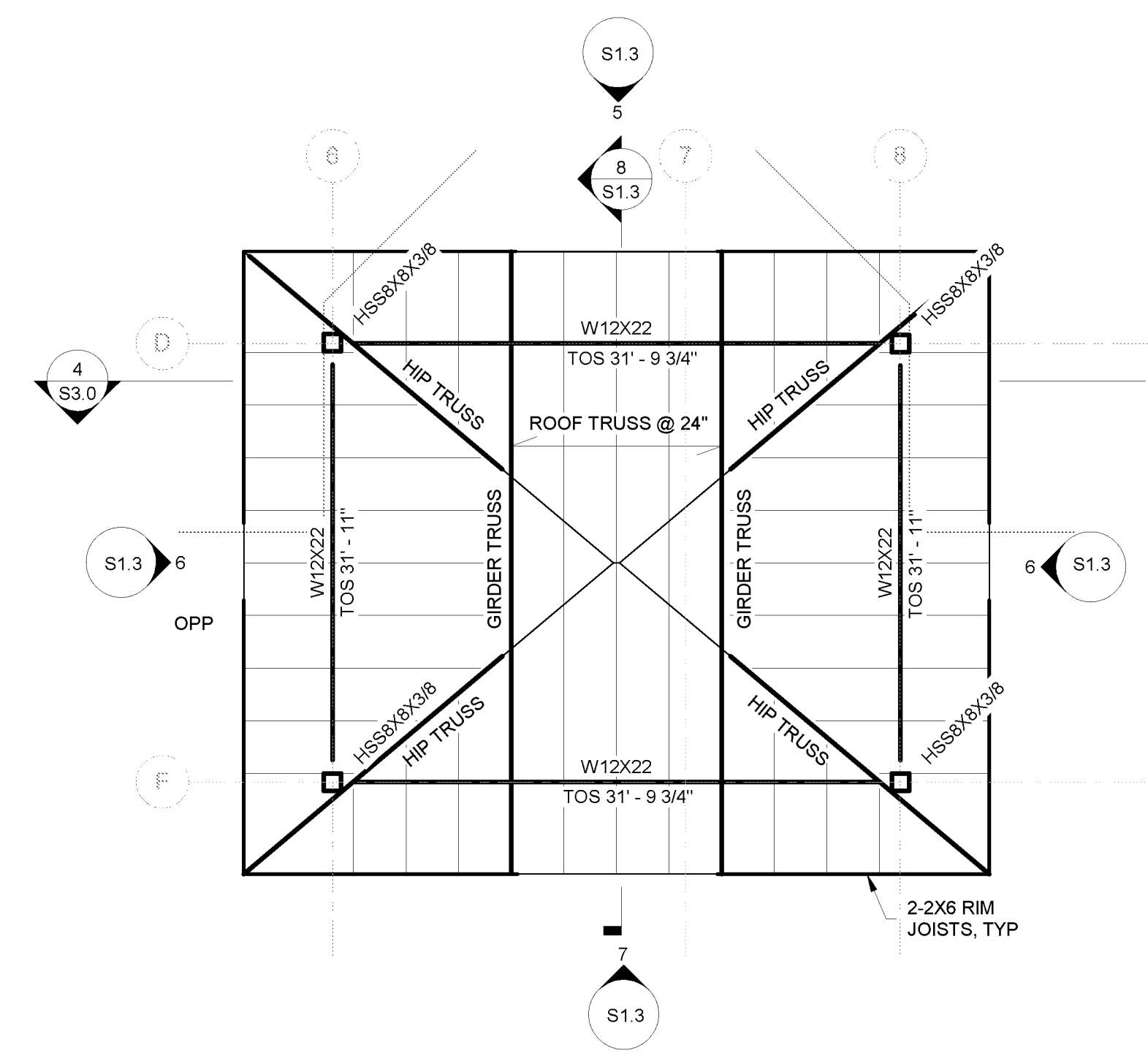
PANEL TABLE

USE	WALL SHEATHING	FLOOR DECKING	ROOF DECKING
PANEL GRADE	APA RATED SHEATHING EXPOSURE 1	APA RATED STURD-I-FLOOR EXPOSURE 1	APA RATED SHEATHING EXPOSURE 1
MIN THICKNESS	7/16\"	1 1/8\"	19/32\"
TYP. NAILING	8d @ 12\" OC	10d @ 12\" OC	8d @ 12\" OC
EDGE NAILING	8d @ 6\" OC	10d @ 6\" OC	8d @ 6\" OC

*PROVIDE EDGE NAILING AT ALL PANEL EDGES AND BLOCKING

Header Schedule

Member Callout	Member Description
3H8	3 - 2x8
3H10	3 - 2x10
3H12	3 - 2x12



1 ROOF
3/16\" = 1'-0\"

3 TOWER ROOF FRAMING PLAN
3/16\" = 1'-0\"

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2501 ASHFORD DRIVE
DALLAS, TEXAS 75228
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WWW.GESSNERENGINEERING.COM
FIRM REGISTRATION NUMBERS:
18PE-17451, 18PE-17452, 18PE-17453, 18PE-17454

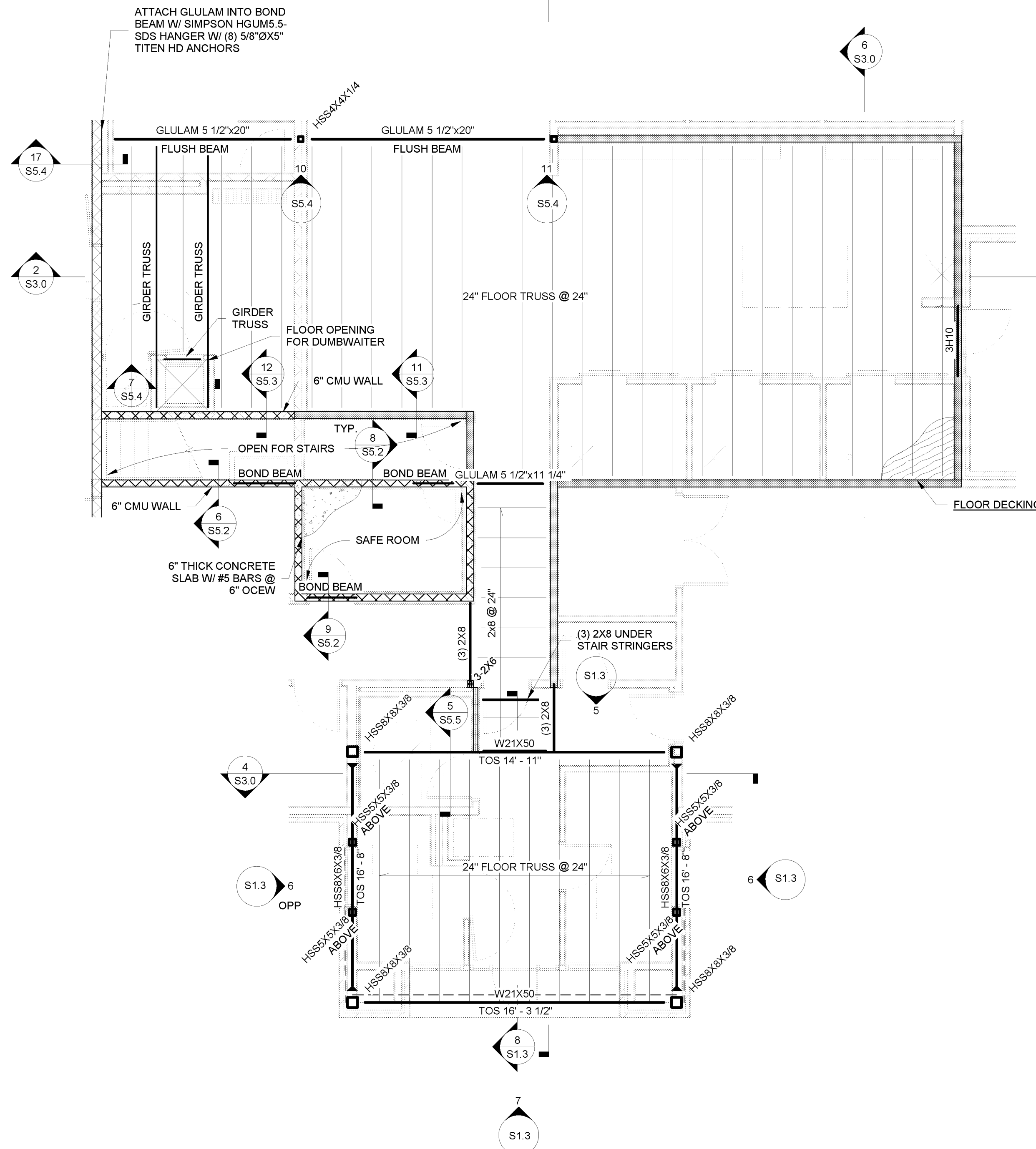
WILLIAMSON CO. ESS 8 / CITY OF GEORGETOWN
GEORGETOWN FIRE STATION No. 6
6700 R.M. 2438
GEORGETOWN, TX 78626

NO. DESCRIPTION DATE

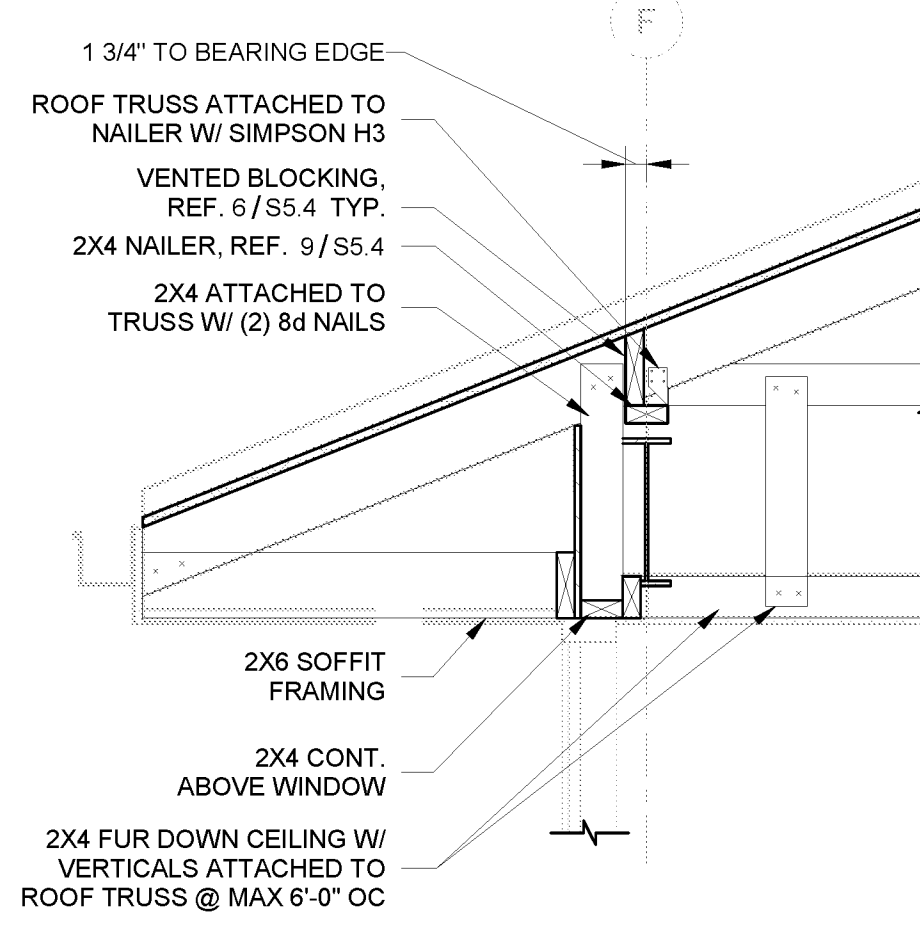
11.16.18
DAVE
ELF
21707500

DATE DRAWN BY CHECKED BY PROJECT NO.

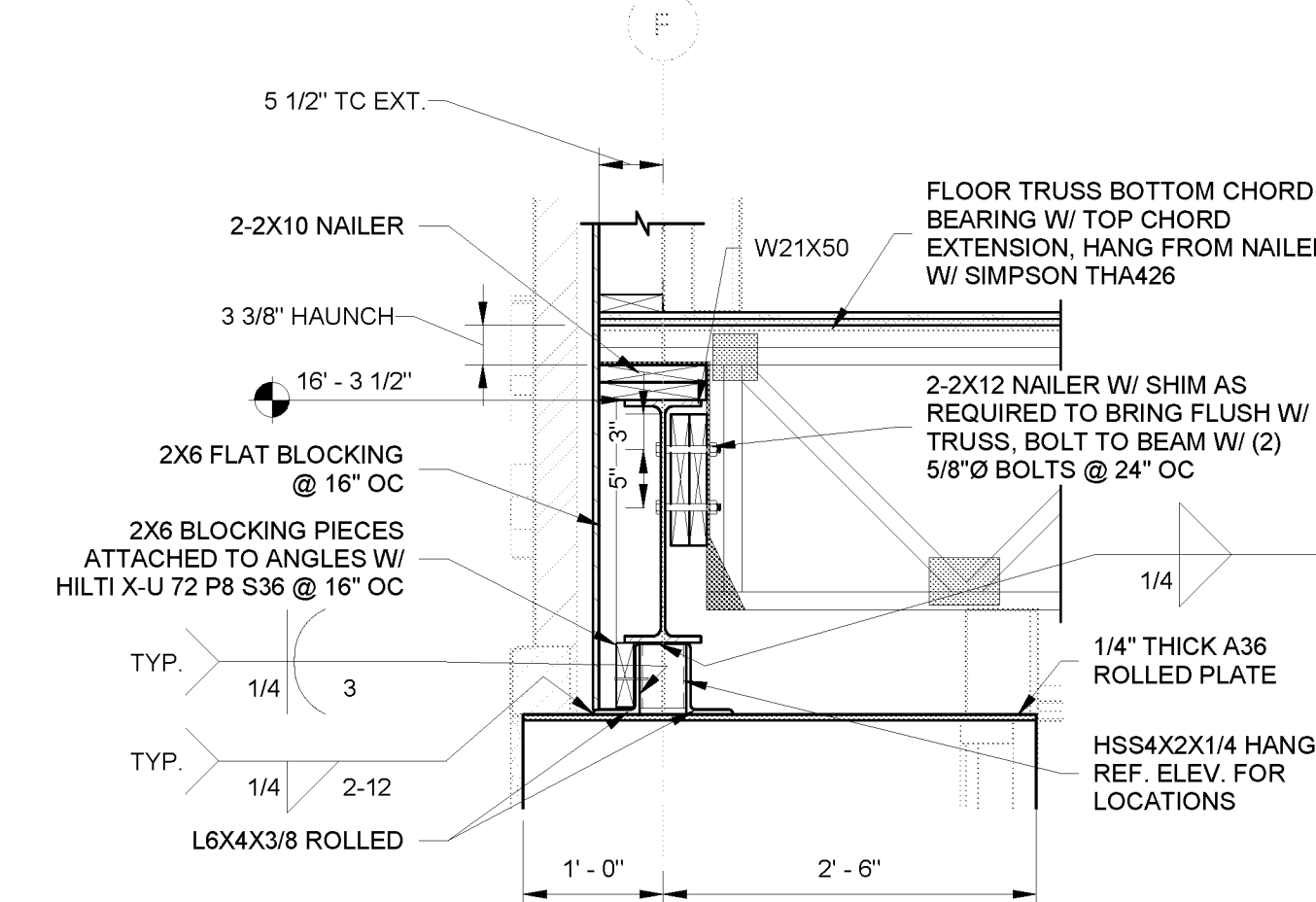
NOTE: REF. TOWER ELEVATIONS FOR ADDITIONAL STEEL



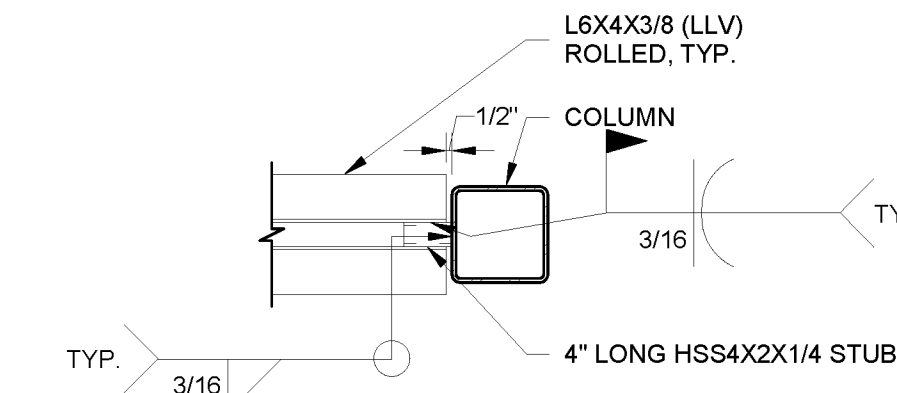
1 2ND FLOOR FRAMING PLAN
3/16" = 1'-0"



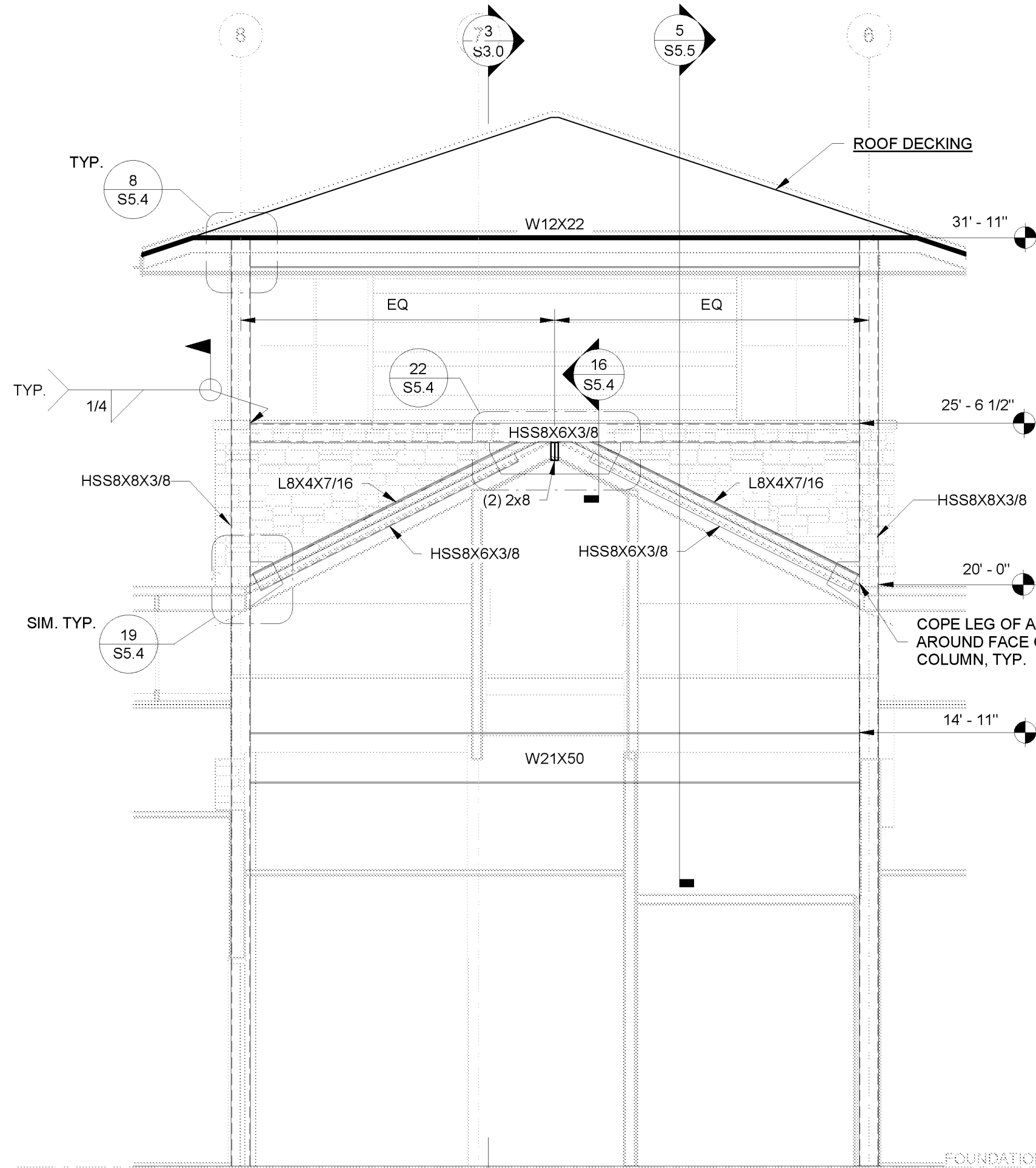
2 TOWER OVERHANG
3/4" = 1'-0"



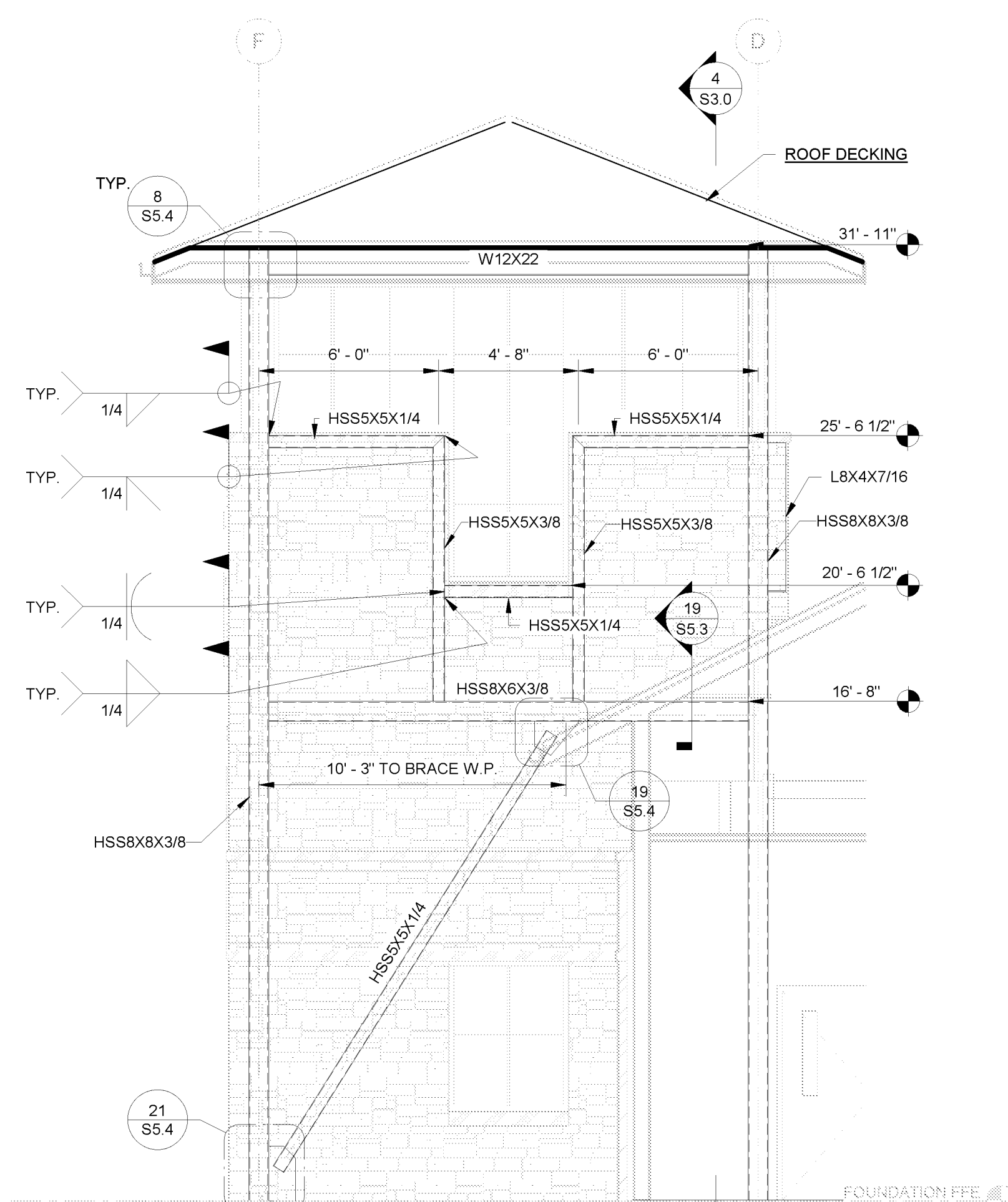
3 SECTION AT TOWER ENTRY
3/4" = 1'-0"



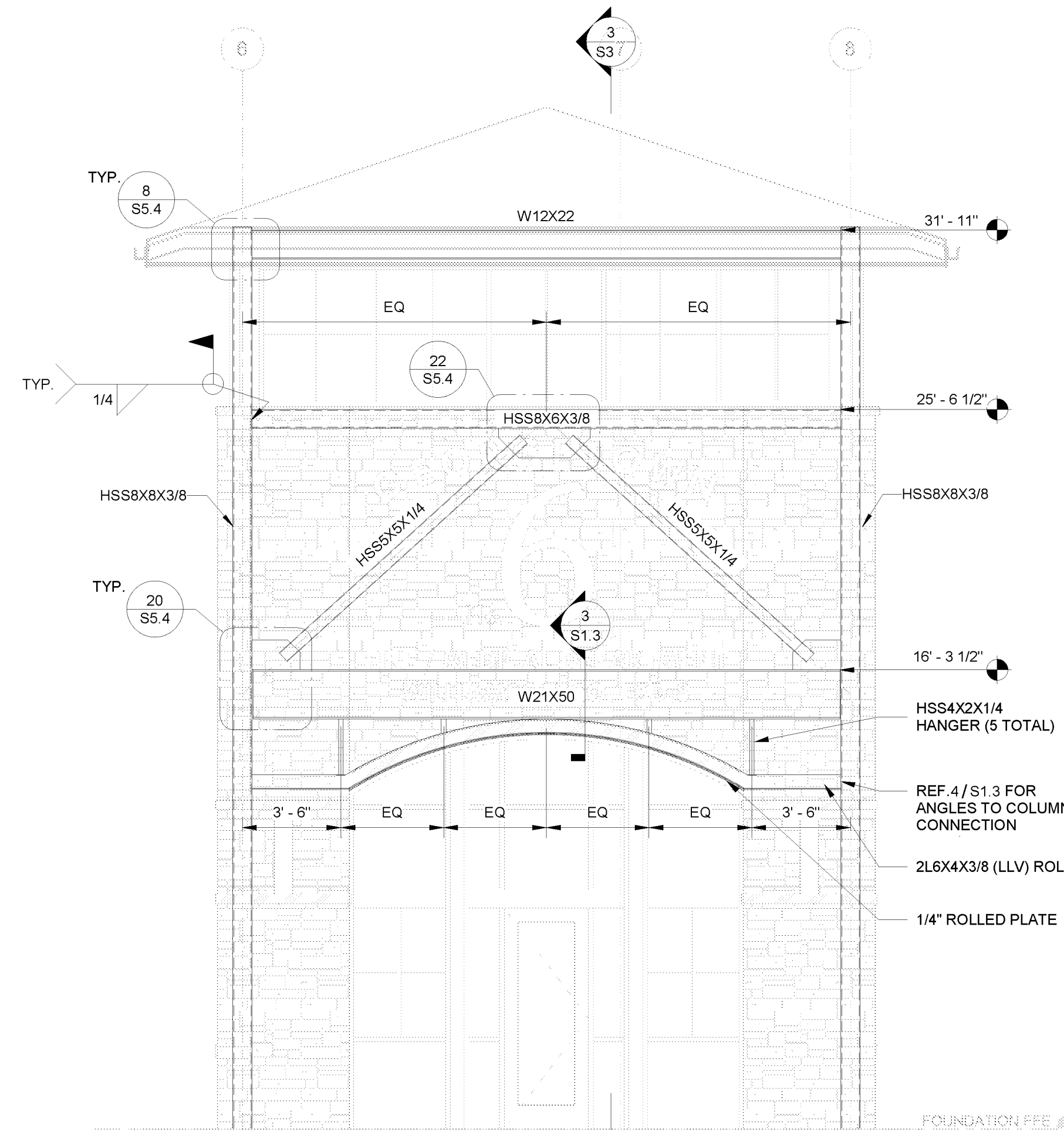
4 ARCH DOOR FRAME CONNECTION
3/4" = 1'-0"



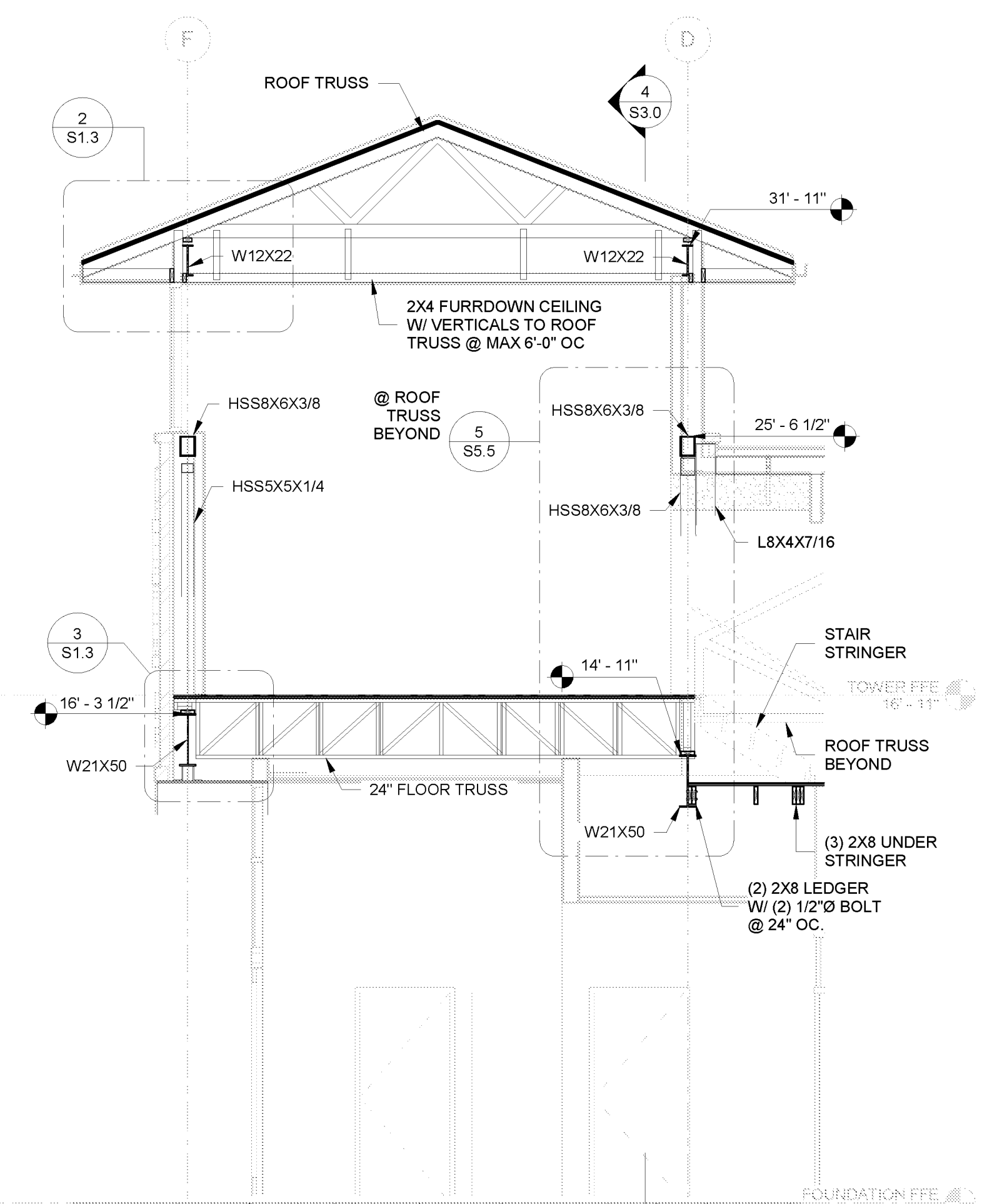
5 TOWER ELEVATION - NORTH
1/4" = 1'-0"



6 TOWER ELEVATION - EAST
1/4" = 1'-0"



7 TOWER ELEVATION - SOUTH
1/4" = 1'-0"



8 TOWER SECTION N-S
1/4" = 1'-0"

- GENERAL FRAMING NOTES:**
- REFERENCE S.D. NOTES FOR ADDITIONAL SPECIFICATIONS.
 - ALL GLULAM BEAMS SHALL BE 30F-2.1E SOUTHERN YELLOW PINE, UNO.
 - ALL LUMBER SHALL BE SOUTHERN YELLOW PINE, #2 UNO.
 - ALL WOOD HEADERS SHALL BE MULTI 2X TO MATCH WALL THICKNESS, OR FURRED OUT TO MATCH THE WALL THICKNESS.
 - ALL FLOOR AND ROOF TRUSSES SHALL BEAR AT ENDS ONLY, UNLESS AN INTERIOR BEARING WALL IS SPECIFICALLY NOTED ON PLAN.
 - ALL STUDS SHALL BE CONTINUOUS BETWEEN HORIZONTAL SUPPORTS WHICH MAY BE BUT ARE NOT LIMITED TO: FLOOR DIAPHRAGM ASSEMBLIES, ROOF DIAPHRAGM ASSEMBLIES, OR TOP PLATES BRACED TO DIAPHRAGM ASSEMBLIES.
 - ALL INTERIOR PARTITION WALLS SHALL BE A MINIMUM 1/2" SHORT OF THE ROOF FRAMING AND BRACED TO THE ROOF STRUCTURE PER 7/55.4. WHERE WALLS STOP SHORTER BELOW THE BOTTOM CHORD OF TRUSSES, BRACE PARTITION WALLS TO TRUSSES W/ 2X FRAMING AS REQUIRED.
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 - ALL STONE LINTELS LESS THAN 10'-0" IN LENGTH SHALL BE A MINIMUM L6X4X3/8. FOR LENGTHS GREATER THAN 10'-0", CONTACT GESSNER ENGINEERING FOR ADDITIONAL INFORMATION.
 - WHERE UPLIFT CONNECTORS ARE ATTACHED FROM ROOF TRUSSES OR RAFTERS TO TOP PLATES, STUDS SHALL BE ATTACHED TO TOP PLATES AND SILL PLATES WITH UPLIFT CONNECTORS SPECIFIED IN THE FRAMING DETAILS.
 - SILL PLATES FOR EXTERIOR WALLS, INTERIOR BEARING WALLS, AND SHEAR WALLS TO BE ANCHORED WITH 5/8" ANCHOR BOLTS WITH 3"x3"x1/4" PLATE WASHERS. REF. SILL PLATE ANCHORAGE DETAIL.
- LEGEND:**
- 2X6 BEARING WALL W/ STUDS @ 16" OC
 - 2X6 BEARING WALL W/ STUDS @ 12" OC
 - 2X4 BEARING WALL W/ STUDS @ 16" OC
 - STRUCTURAL CMU WALL, REF. S2.0 FOR GROUT AND REINFORCEMENT SPACING
 - TRUSS OVERFRAMING LOCATION
 - MOMENT FRAME CONNECTION
- SHEET NOTES:**
- REFERENCE ARCHITECTURAL PLANS FOR OVERHANG CONDITIONS.
 - REFERENCE PANEL TABLE ON FRAMING PLAN SHEETS FOR WALL SHEATHING, ROOF DECKING, AND FLOOR DECKING. GRADE, PANEL THICKNESS, AND NAILING.
 - REFERENCE UPLIFT CONNECTION TABLE FOR RAFTER/ROOF TRUSS TO TOP PLATE, TOP PLATE TO STUD, FLOOR TO FLOOR, AND STUD TO SILL PLATE CONNECTION SPACINGS.

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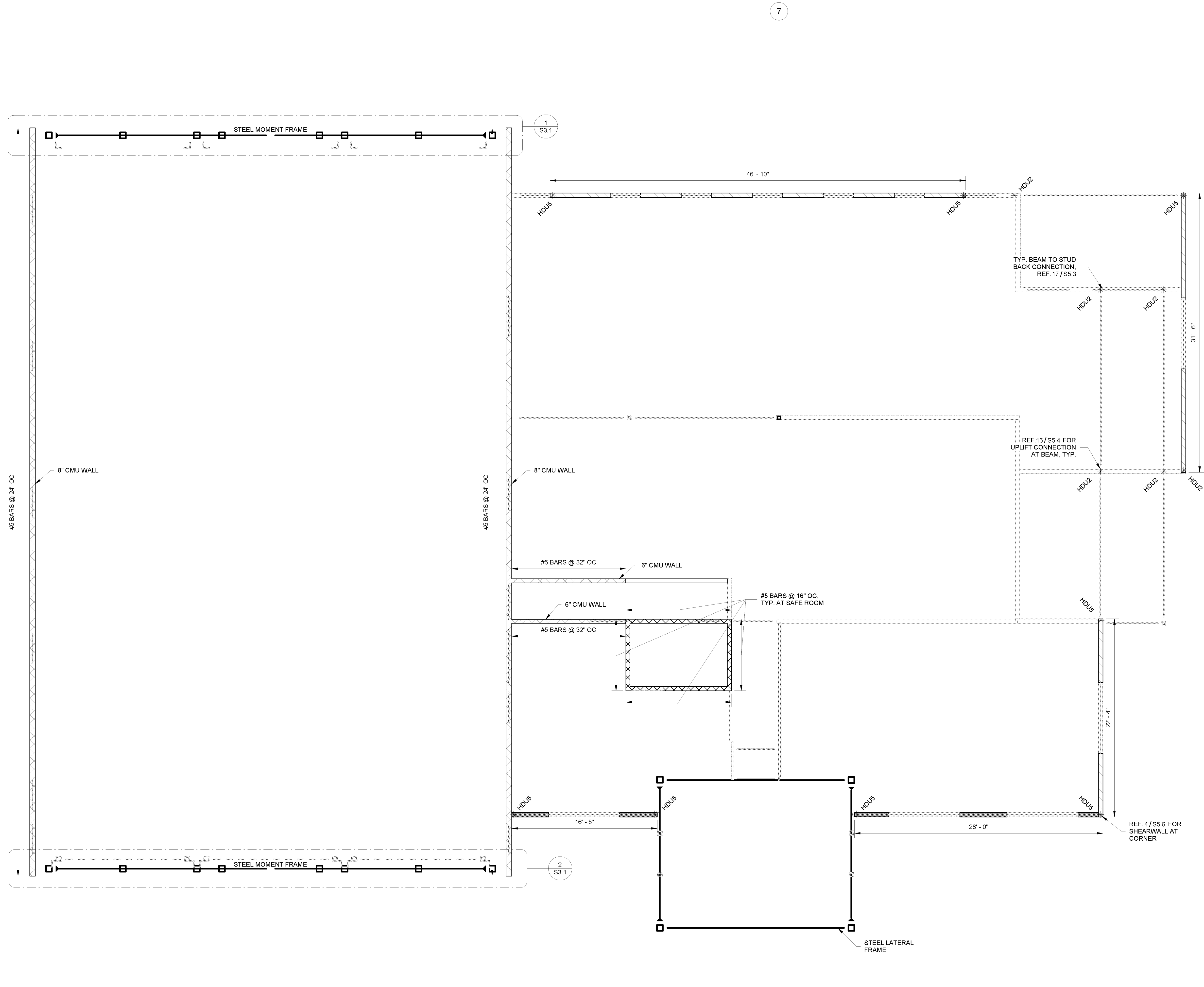
WILLIAMSON CO. ESD 8 / CITY OF GEORGETOWN
GEORGETOWN FIRE STATION No. 6
6700 R.M. 2338
GEORGETOWN, TX 78626

DATE: 11.16.18
DRAWN BY: DAV
CHECKED BY: ELV
PROJECT NO.: 217079.00

NO.	DESCRIPTION	DATE

LEGEND:

-  LOCATION OF FORCE-TRACER SHEAR WALL, REF. 1/S5.6
-  LOCATION OF PERFORATED SHEARWALL, REF. 2/S5.6
-  SHEAR WALL HOLDOWN, REF. 3/S5.6
-  CMU WALL, REF. PLAN FOR THICKNESS



1 LATERAL FRAMING AND WALL BRACING PLAN
3/16" = 1'-0"

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BRW

STATE OF TEXAS
REGISTERED ARCHITECTS
EXPIRES 03/31/2019

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DALLAS, TEXAS 75240
CALL 1-877-GESSNER (437-7637)
WWW.GESSNERENGINEERING.COM
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TYPE-P-7451, TYPE-C-10159510

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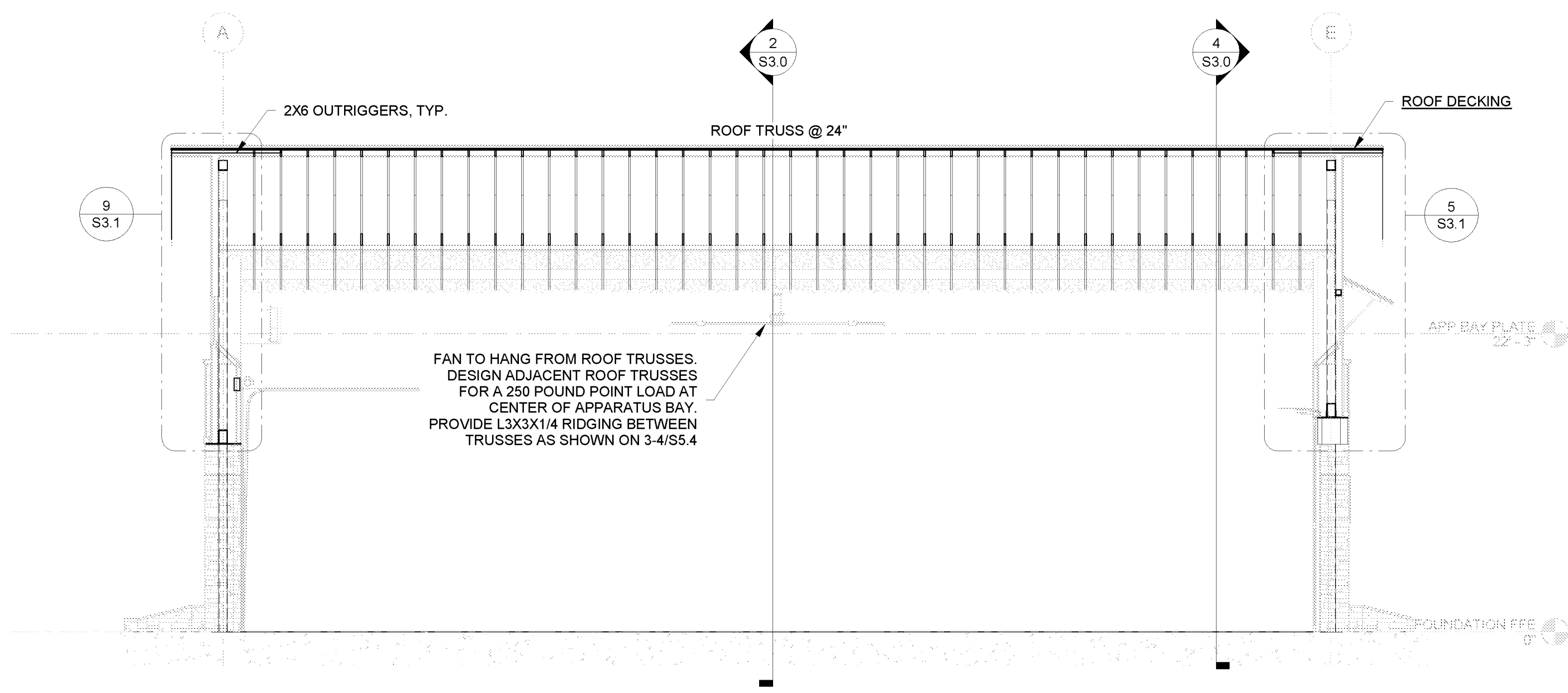
DATE 11.16.18
DRAWN BY EHV
CHECKED BY DAV
PROJECT NO. 217079.00

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GEORGETOWN FIRE STATION No. 6
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GEORGETOWN, TX 78626

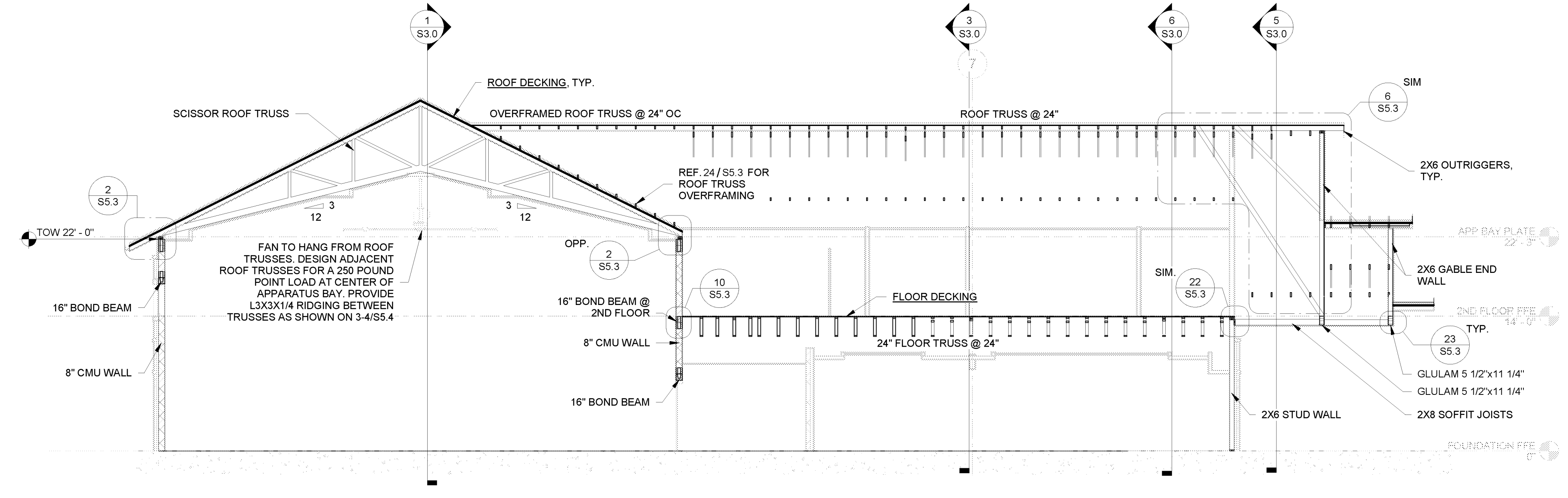
NO.	DESCRIPTION	DATE

S2.0

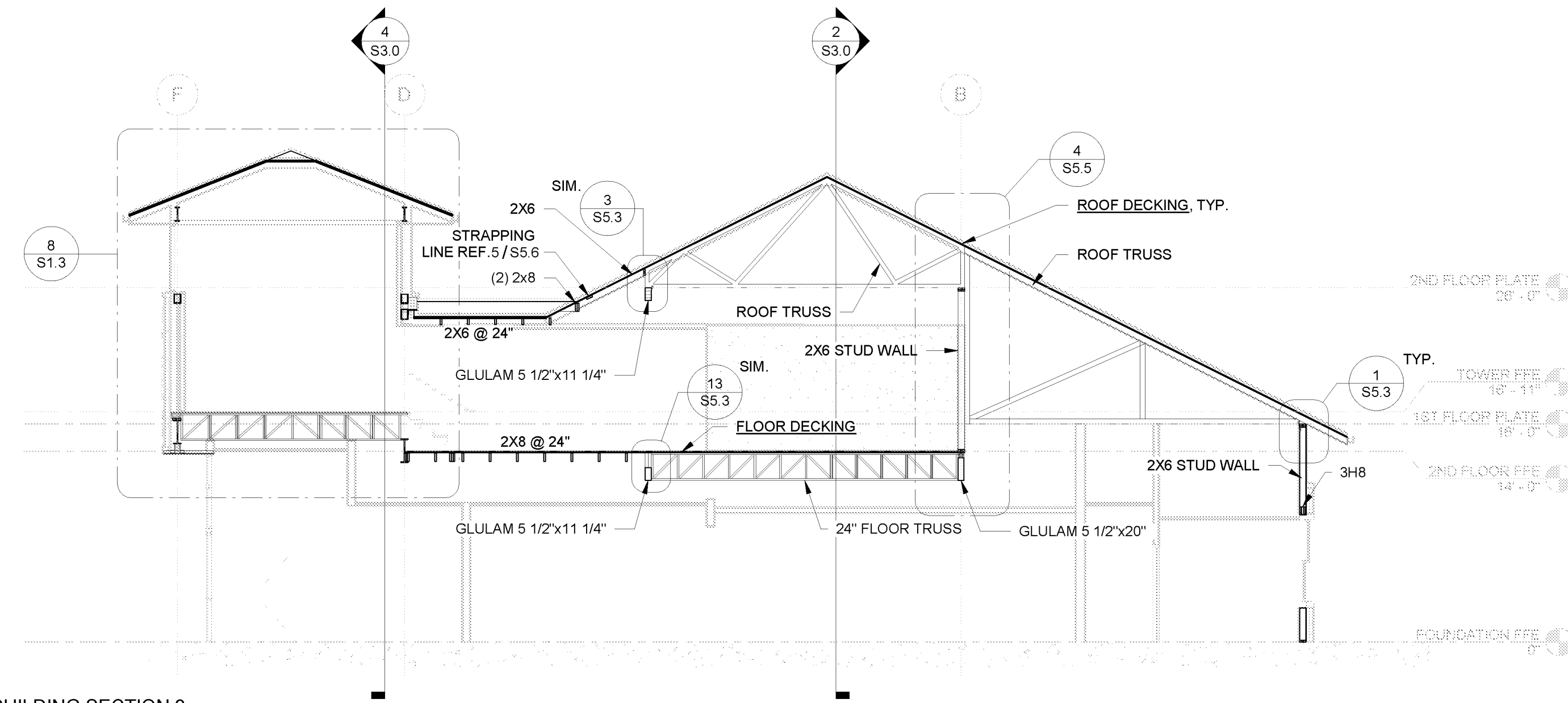
LATERAL FRAMING
PLAN & WALL



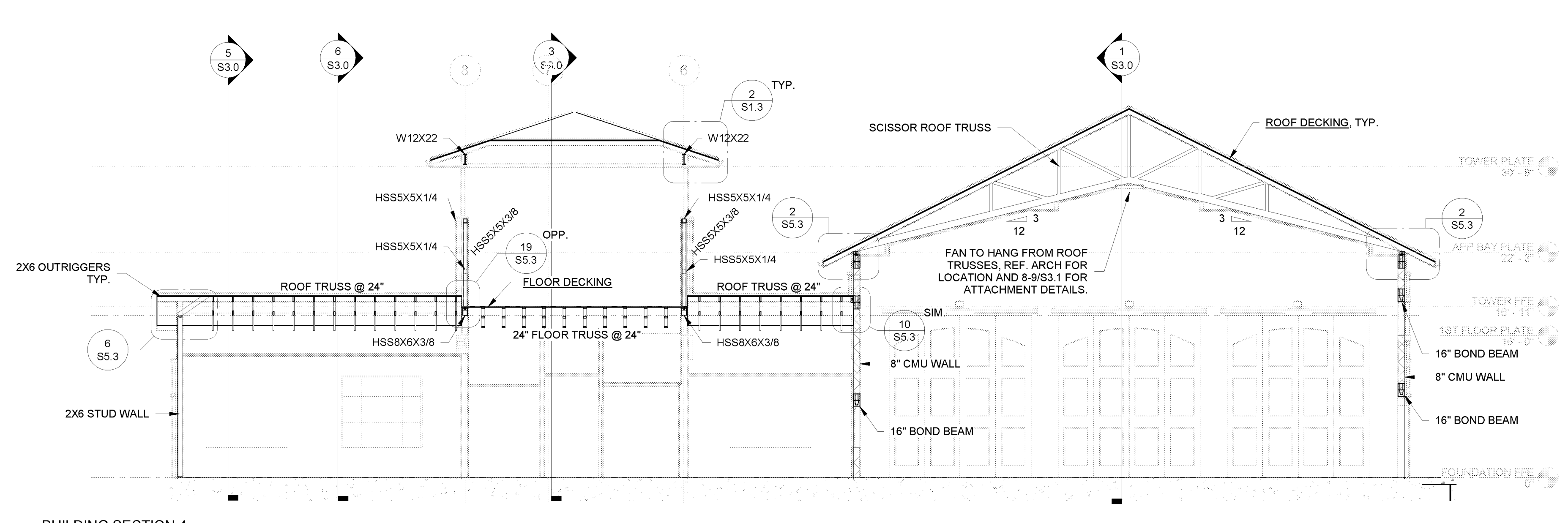
1 BUILDING SECTION 1
1/8" = 1'-0"



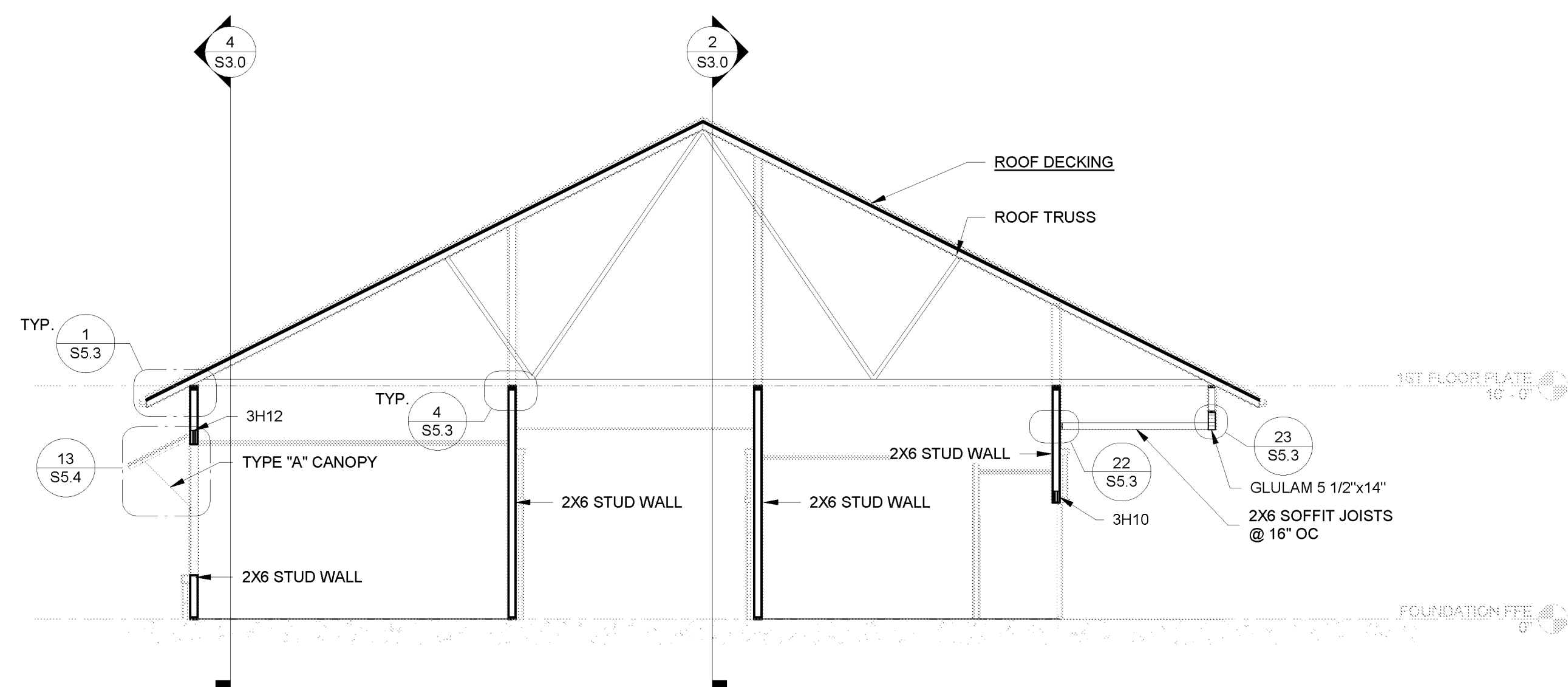
2 BUILDING SECTION 2
1/8" = 1'-0"



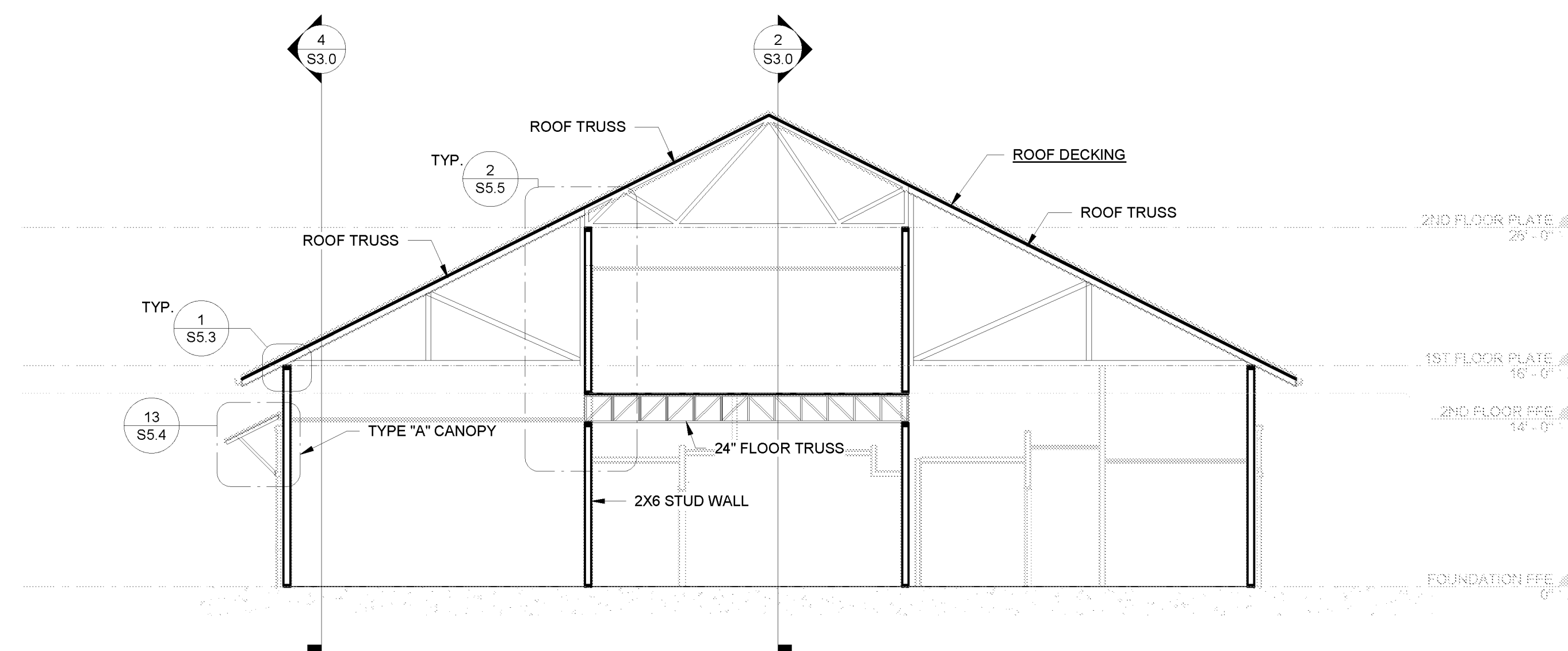
3 BUILDING SECTION 3
1/8" = 1'-0"



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

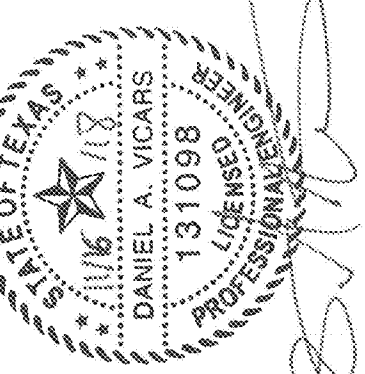
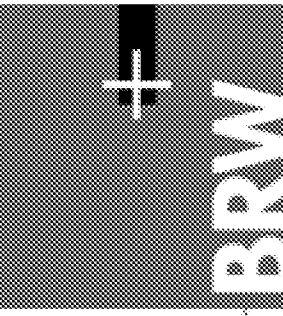


5 BUILDING SECTION 5
1/8" = 1'-0"

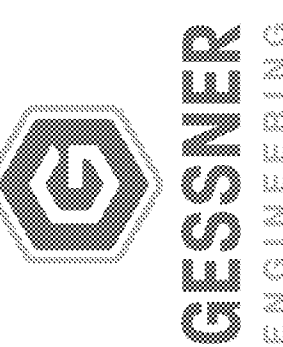


6 BUILDING SECTION 6
1/8" = 1'-0"

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DATE 11.16.18
DRAWN BY EH
CHECKED BY DAY
PROJECT NO. 21707900

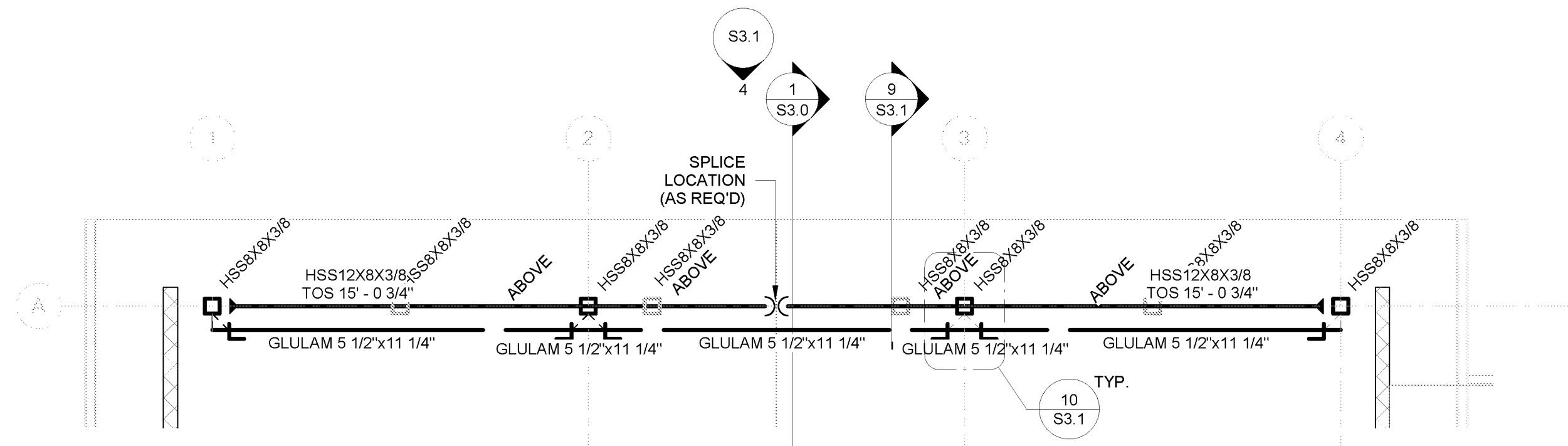
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GEORGETOWN, TX 78626



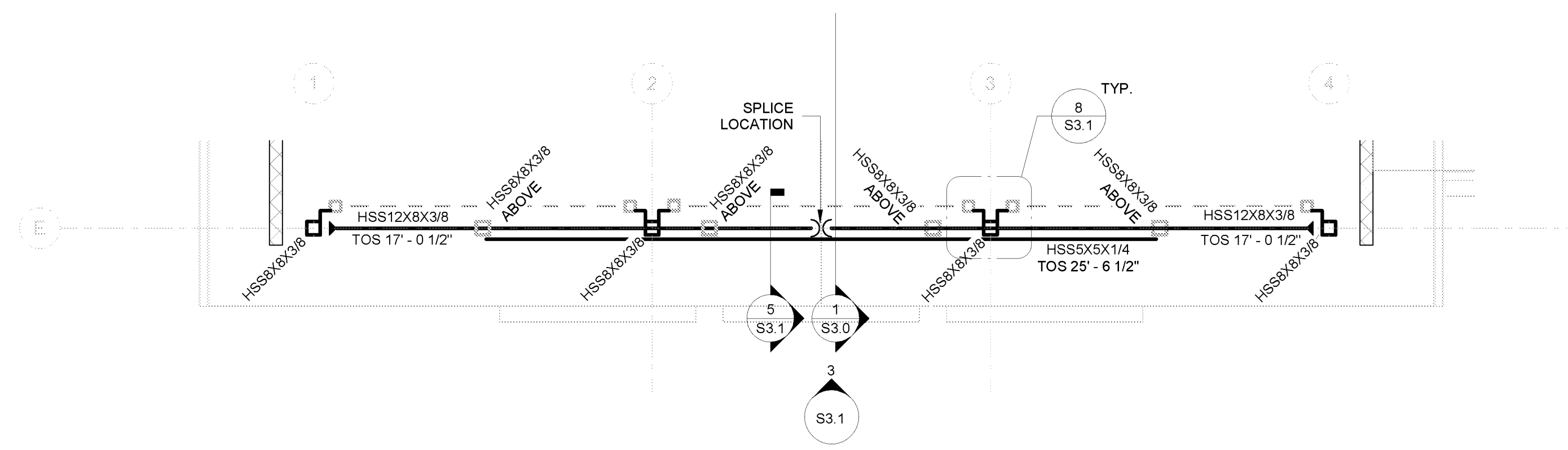
NO.	DESCRIPTION	DATE

S3.0

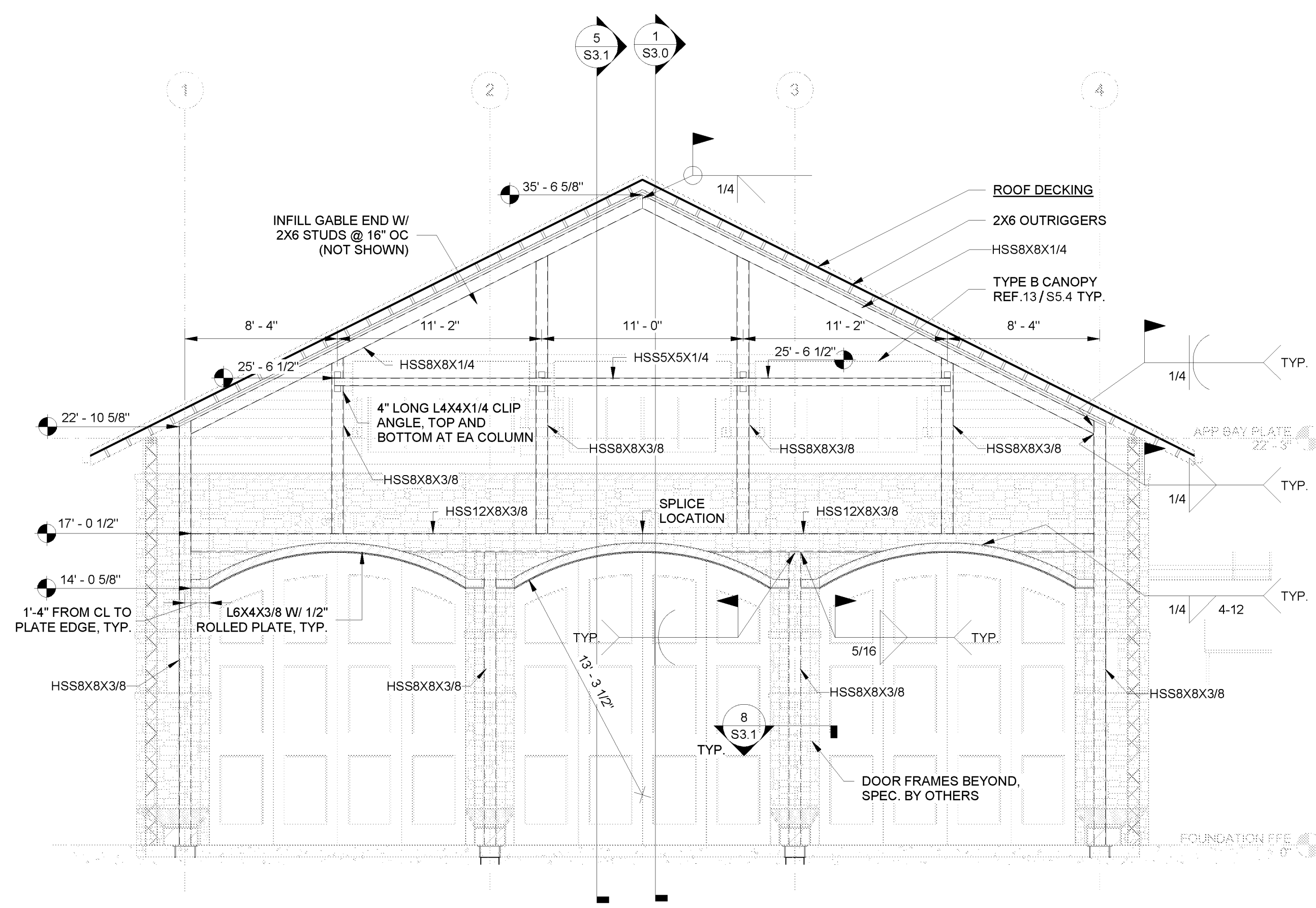
SECTIONS



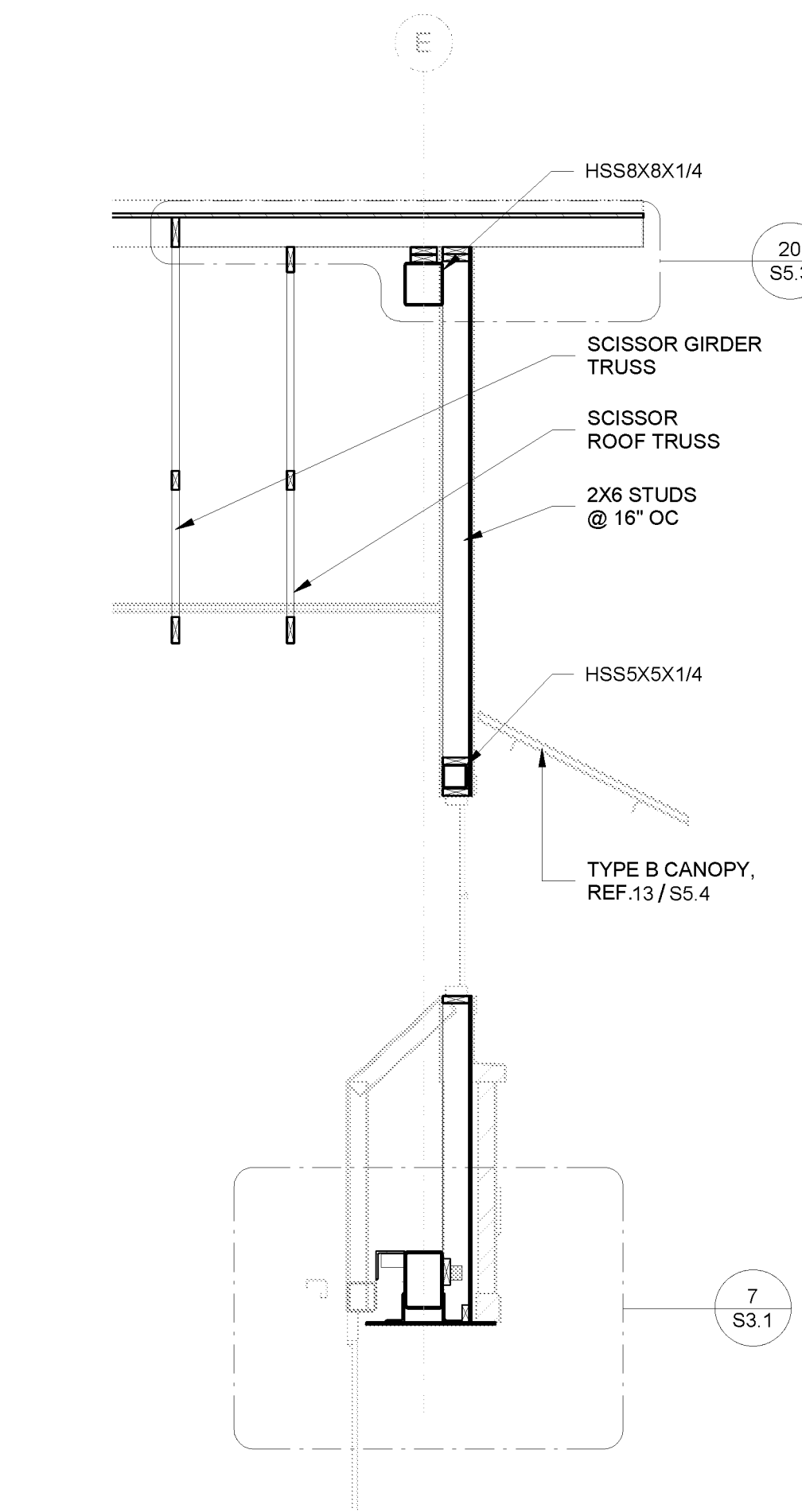
1 APP BAY DOOR FRAMING - PLAN NORTH
3/16" = 1'-0"



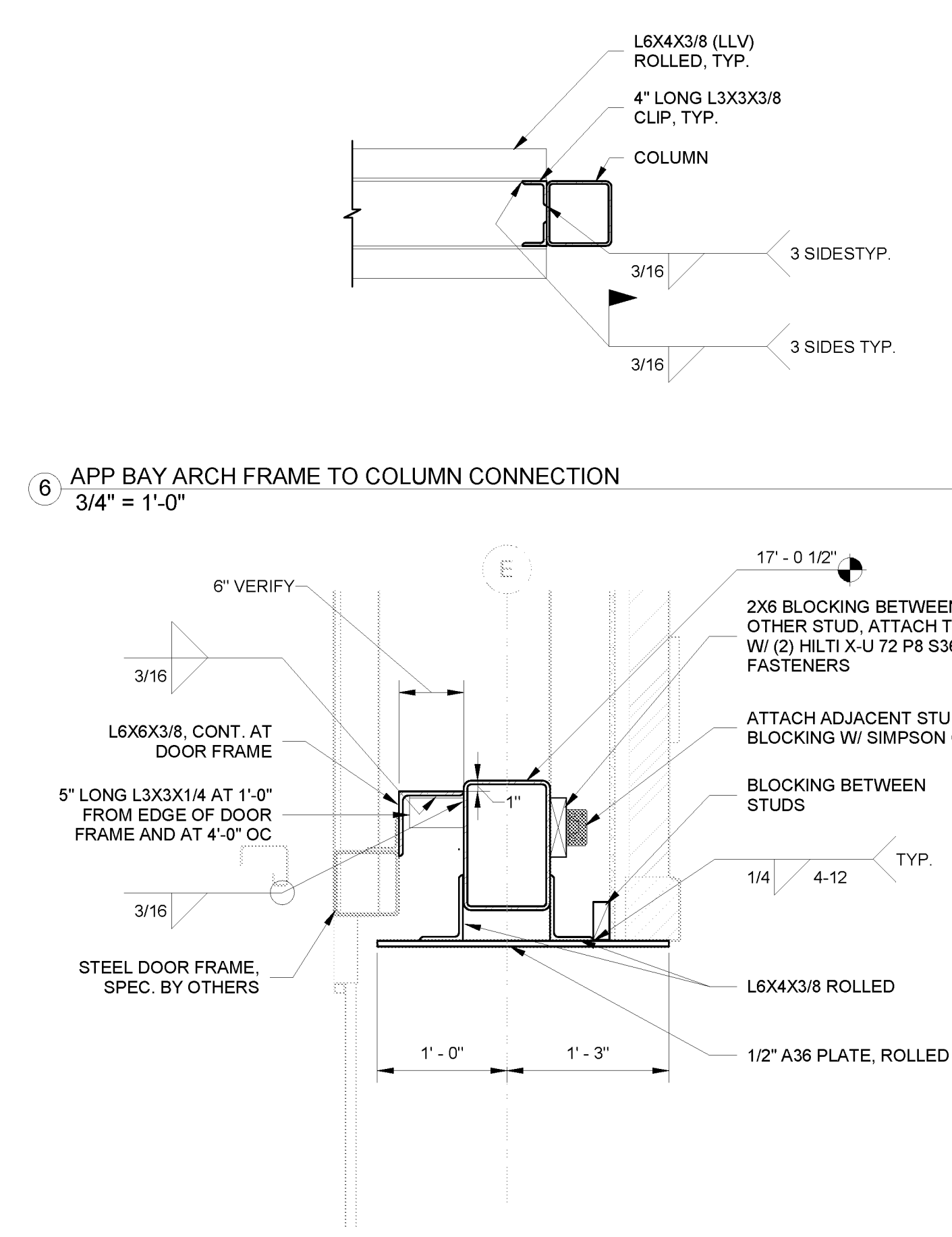
2 APP BAY DOOR FRAMING - PLAN SOUTH
3/16" = 1'-0"



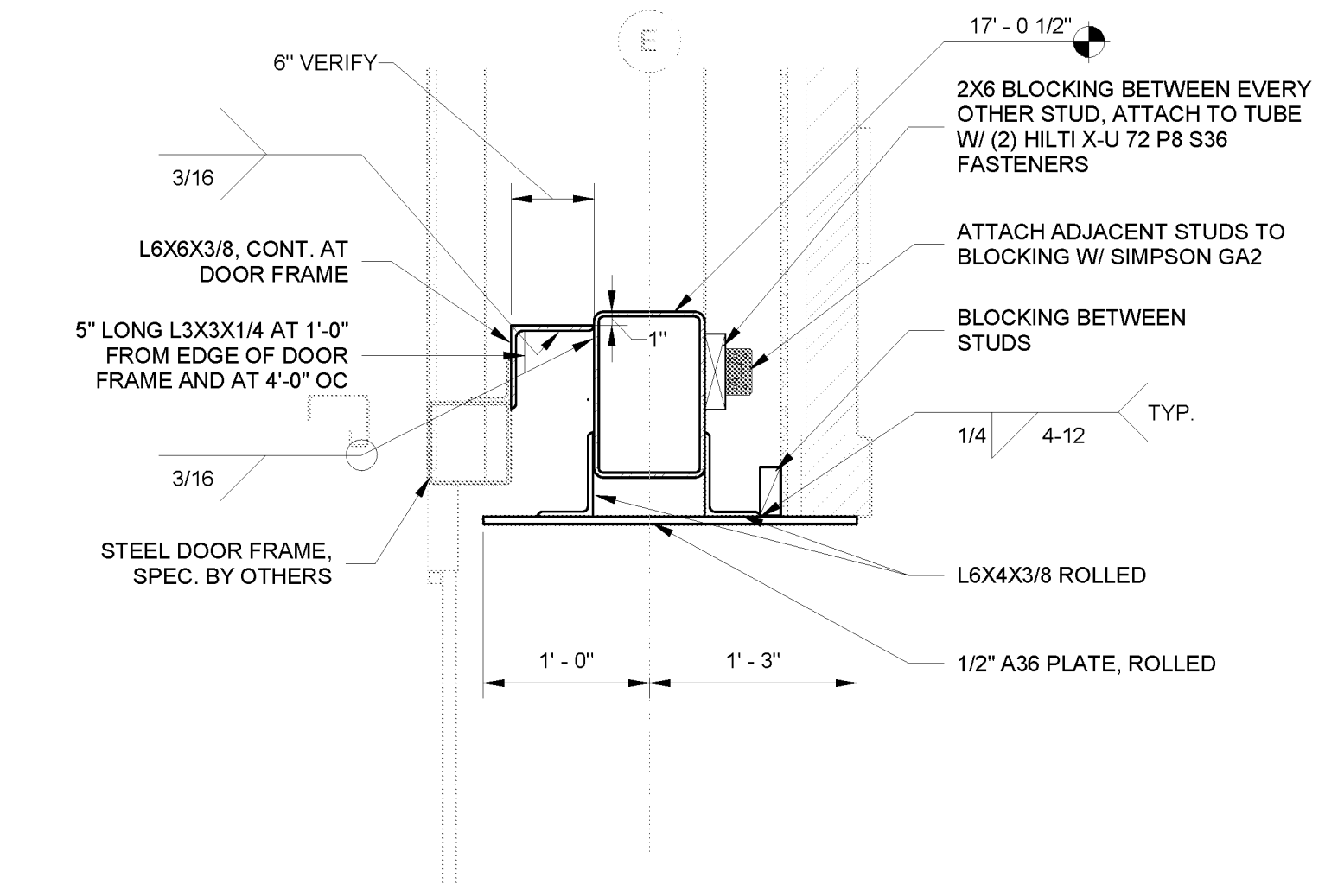
3 APP BAY ELEVATION - PLAN SOUTH
3/16" = 1'-0"



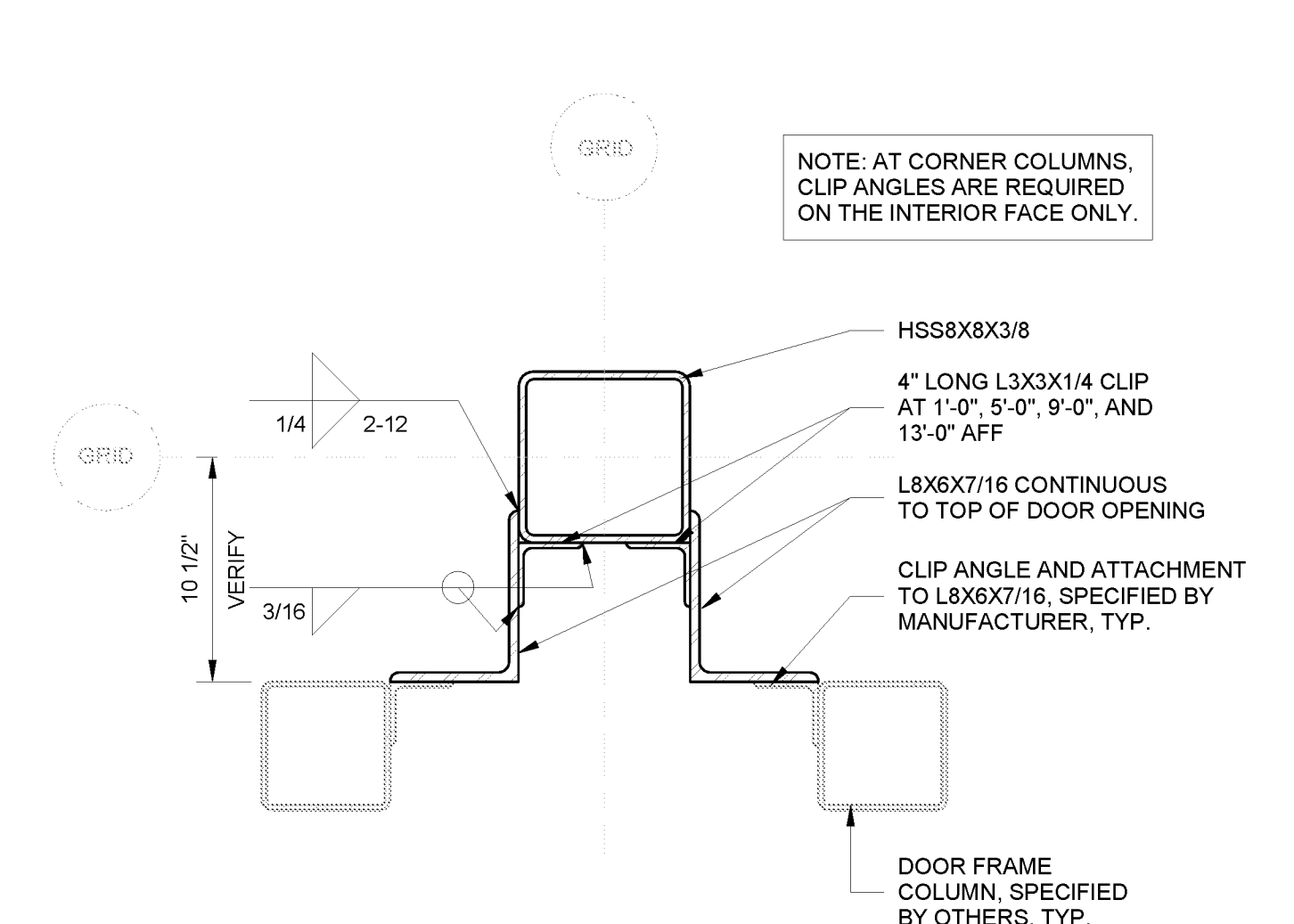
5 SECTION AT APP BAY DOOR - PLAN NORTH
3/8" = 1'-0"



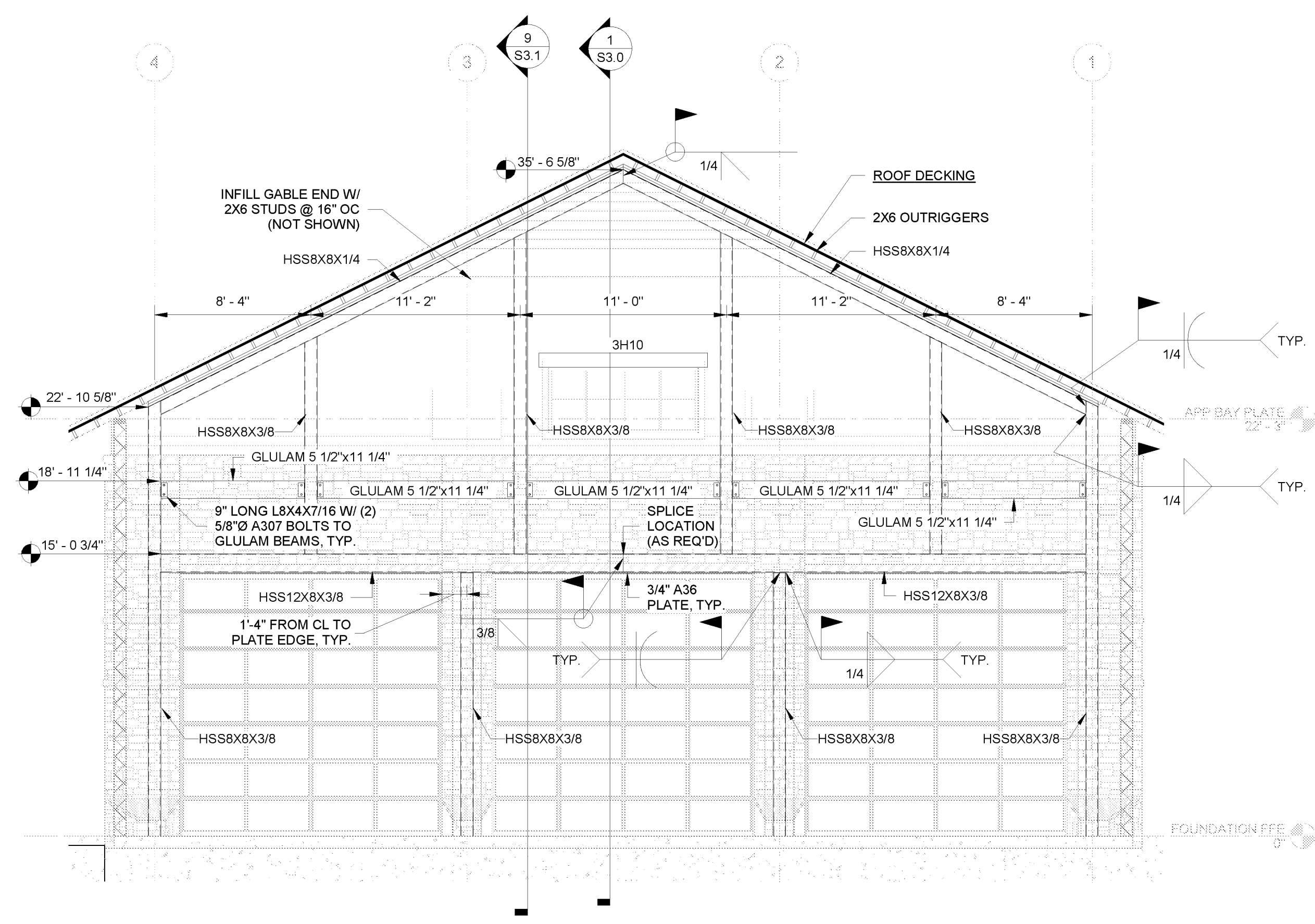
6 APP BAY ARCH FRAME TO COLUMN CONNECTION
3/4" = 1'-0"



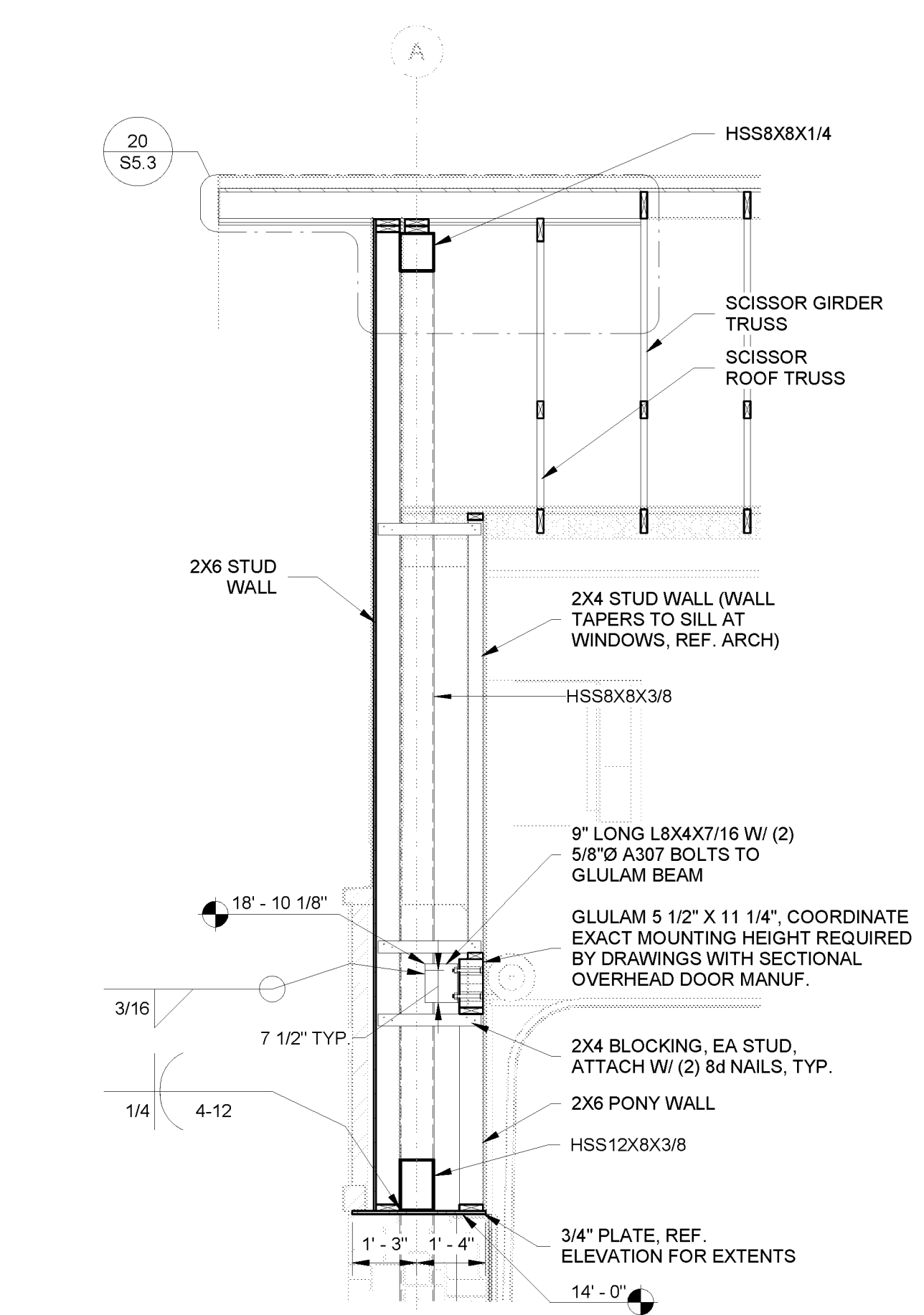
7 SECTION AT APP BAY DOOR HEADER - PLAN NORTH
1" = 1'-0"



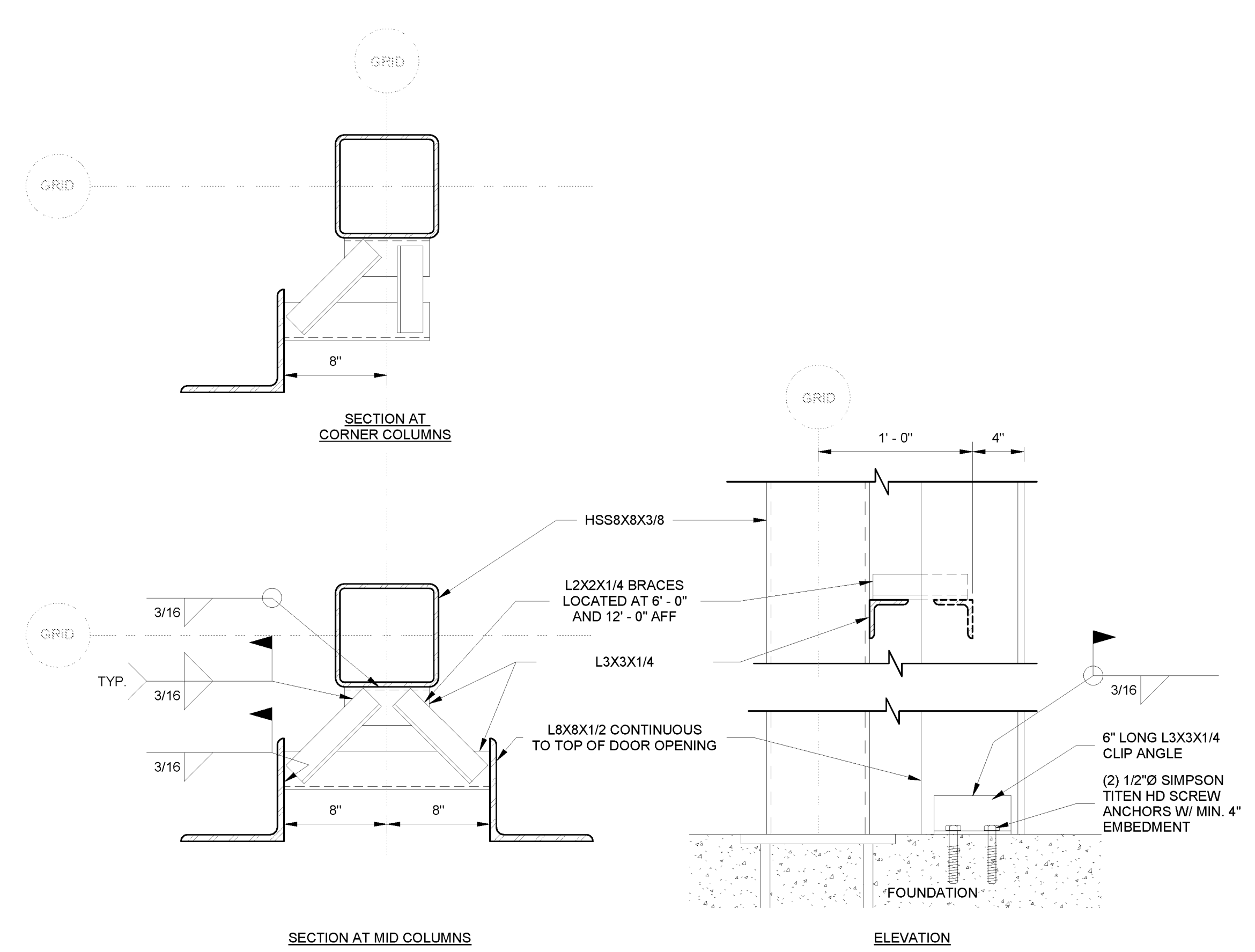
8 COLUMN ATTACHMENT TO FOLDING DOOR FRAME
1 1/2" = 1'-0"



4 APP BAY ELEVATION - PLAN SOUTH
3/16" = 1'-0"



9 SECTION AT APP BAY DOOR - PLAN SOUTH
3/8" = 1'-0"



10 COLUMN ATTACHMENT TO OVERHEAD DOOR FRAME
1 1/2" = 1'-0"

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NO. 137093
EXPIRES 12/31/2018

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2501 ASHFORD DRIVE
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1-877-GESSNER (437-6372)
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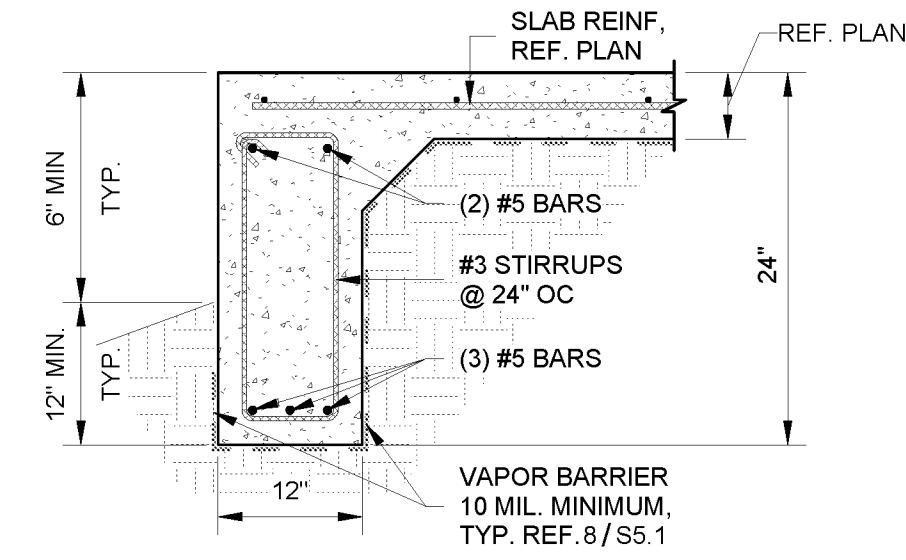
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GEORGETOWN FIRE STATION No. 6
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GEORGETOWN, TX 78626

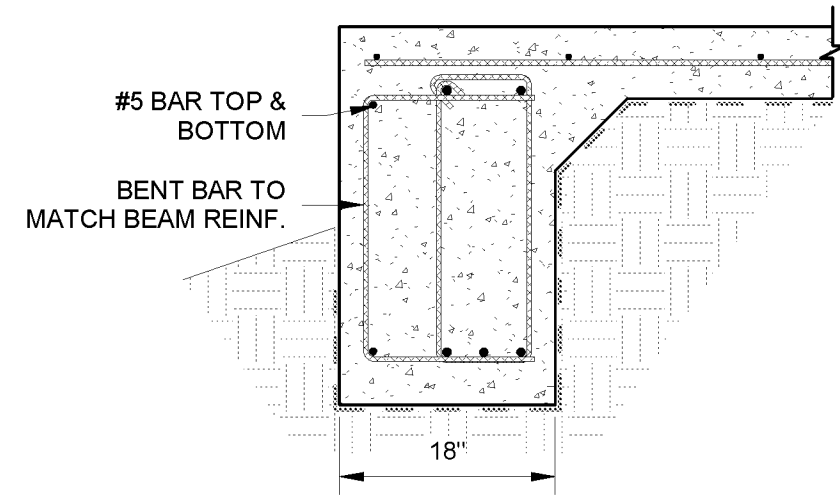
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CHECKED BY: DAV
PROJECT NO.: 217079.00

NO.	DESCRIPTION	DATE

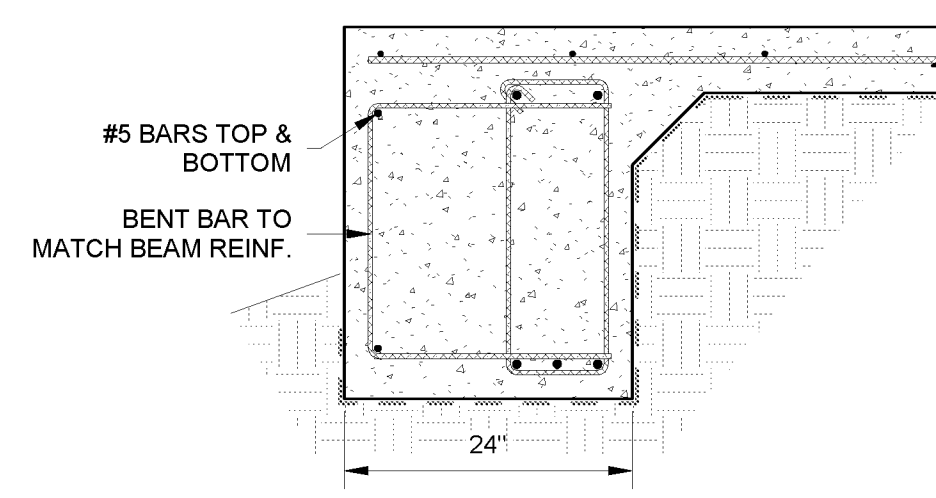
- NOTES:**
- REFERENCE PLANS FOR SLOPING SLAB CONDITIONS.
 - WHERE SLAB DROP IS LESS THAN OR EQUAL TO 1 1/2", SLAB REINFORCEMENT MAY BE CONTINUOUS AND BENT BELOW DROP IN LIEU OF PROVIDING BENT BARS AS SHOWN.
 - VAPOR BARRIER AS DETAILED TO BE INSTALLED BELOW ALL FOUNDATION CONCRETE.
 - ALL SPLICES SHALL BE AS SPECIFIED IN THE GENERAL NOTES.
 - BEAM REINFORCEMENT TYPICAL UNLESS NOTED OTHERWISE.
 - BEAM WIDTH AND DEPTH TYPICAL UNLESS NOTED OTHERWISE.
 - WHERE CMU WALLS OCCUR ABOVE BEAMS, PROVIDE CAST-IN-PLACE DOWELS PER 7 / S5.2.



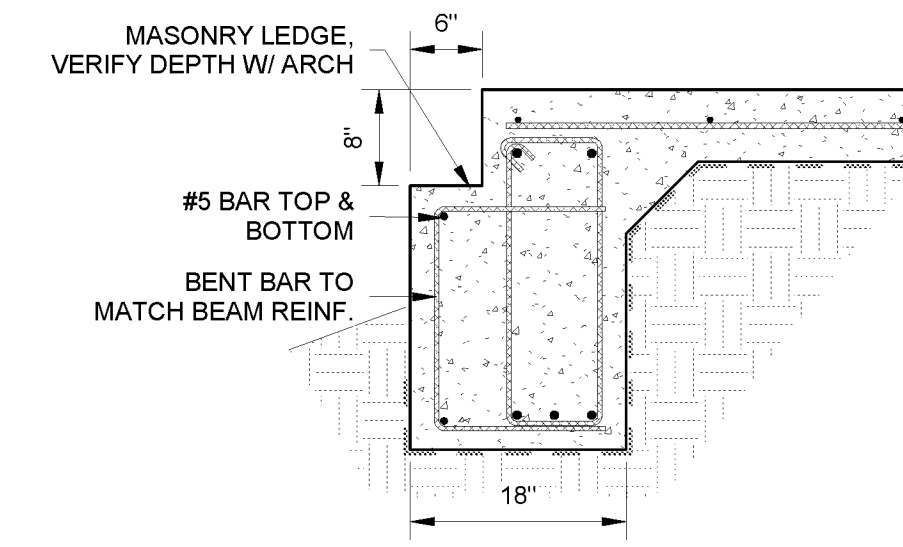
1 EXTERIOR BEAM
N.T.S.



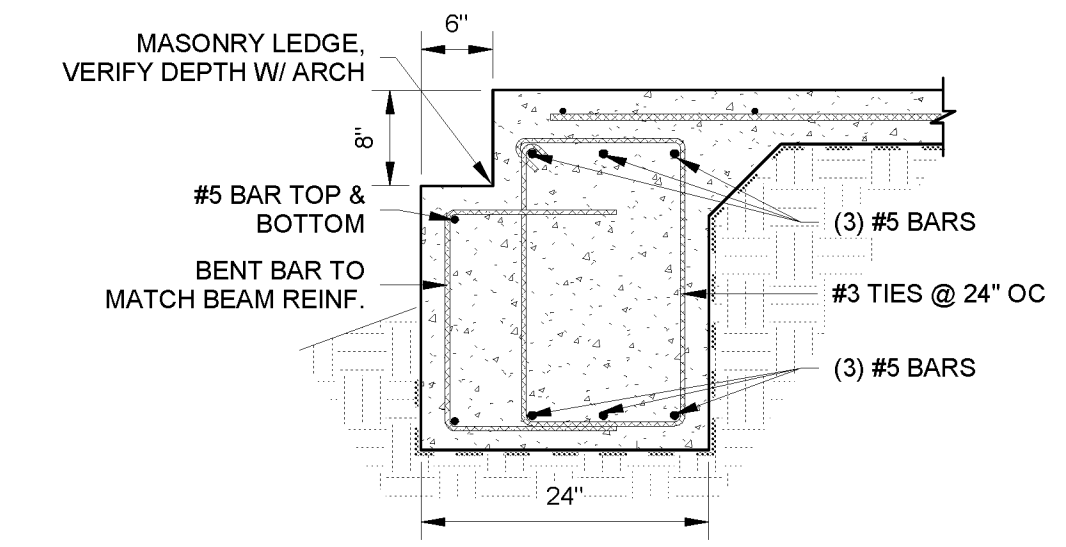
2 18" WIDENED EXTERIOR BEAM
N.T.S.



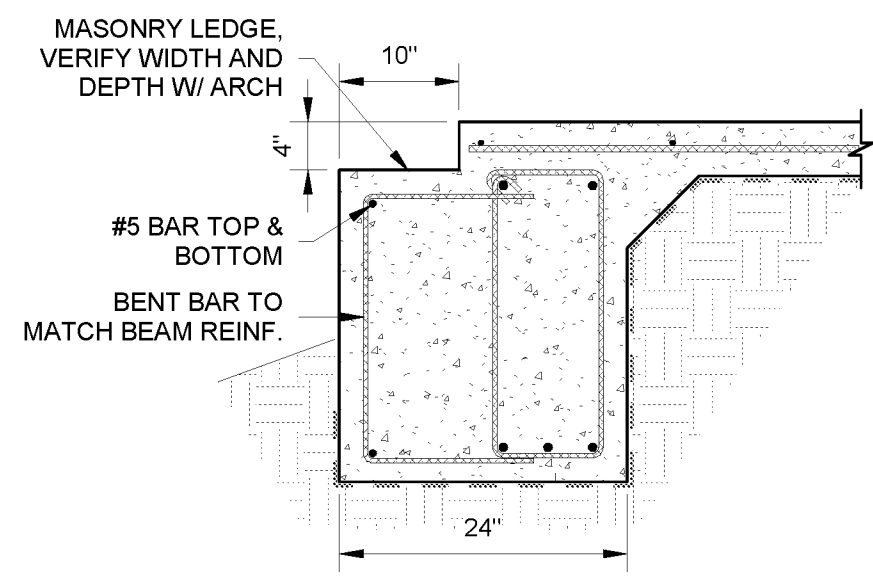
3 24" WIDENED EXTERIOR BEAM
N.T.S.



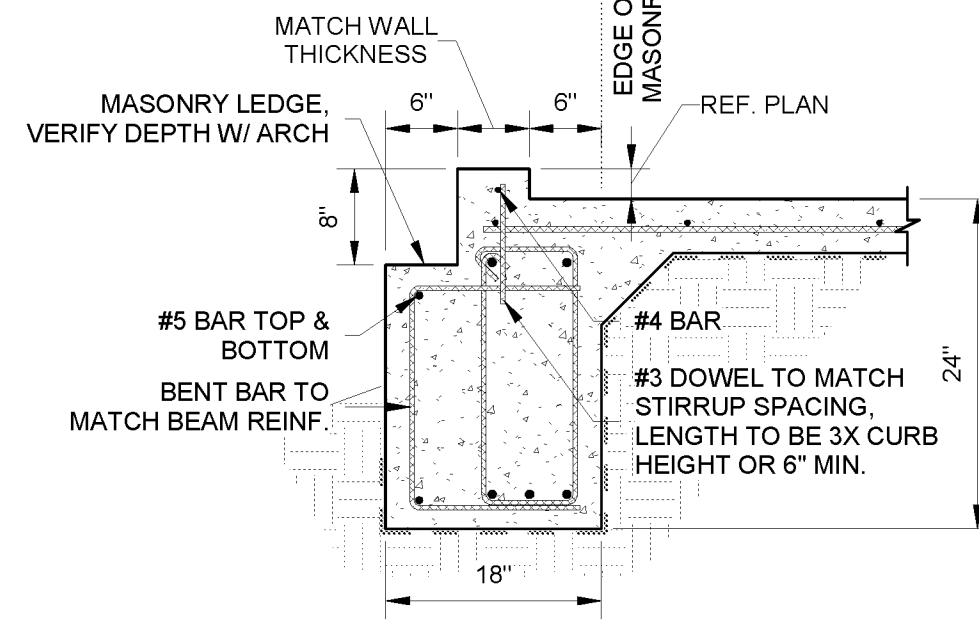
4 EXTERIOR BEAM W/ MASONRY LEDGE
N.T.S.



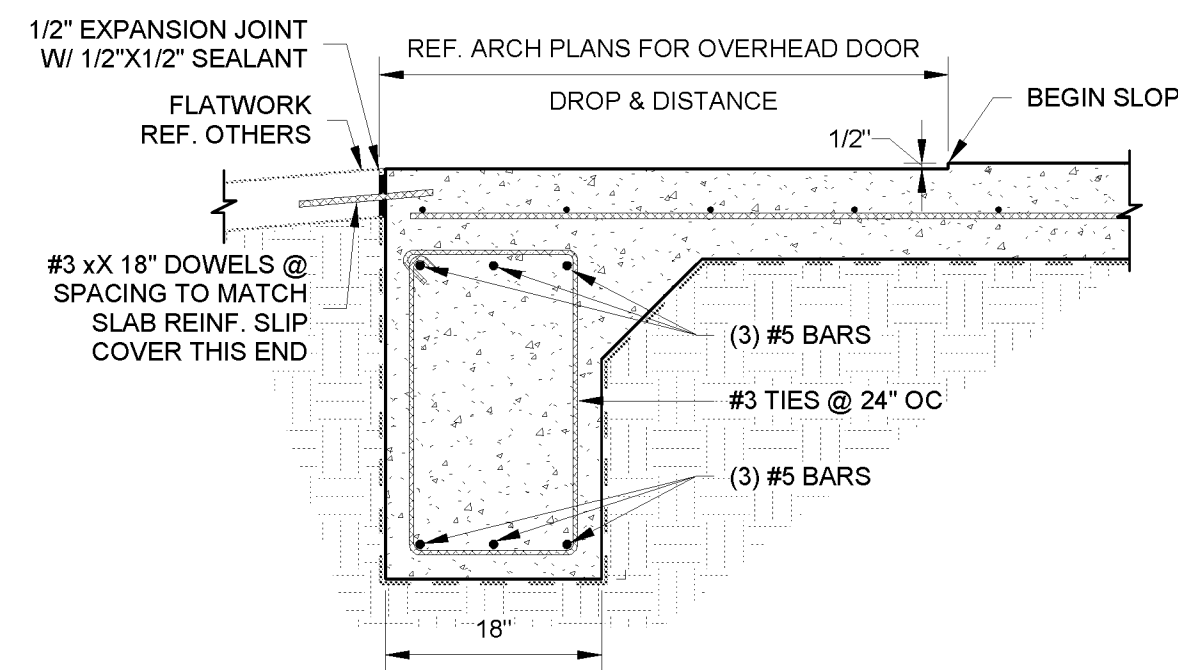
5 24" EXTERIOR BEAM W/ MASONRY LEDGE
N.T.S.



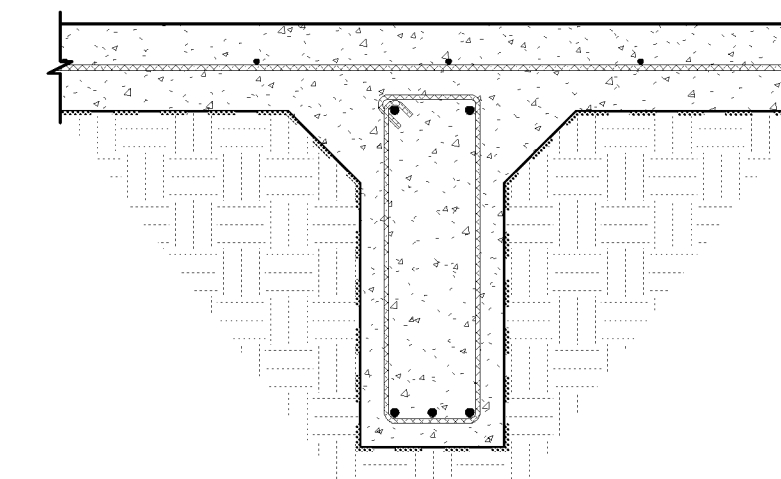
6 EXTERIOR BEAM W/ ALTERNATE MASONRY LEDGE
N.T.S.



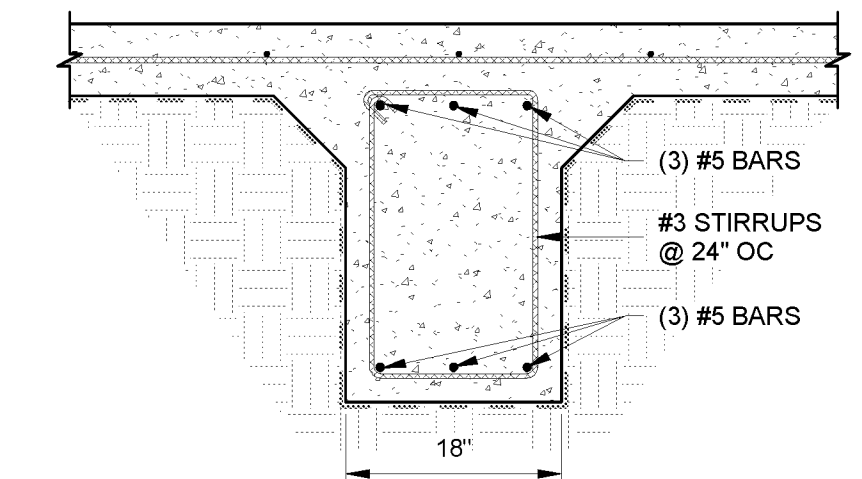
7 EXTERIOR BEAM W/ MASONRY LEDGE AT EA SIDE
N.T.S.



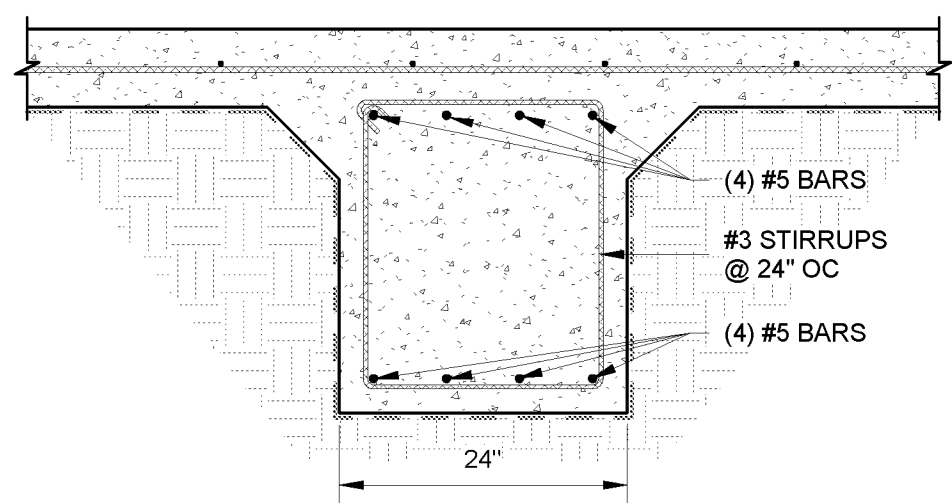
8 GRADE BEAM AT BIFOLD/OVERHEAD DOOR
N.T.S.



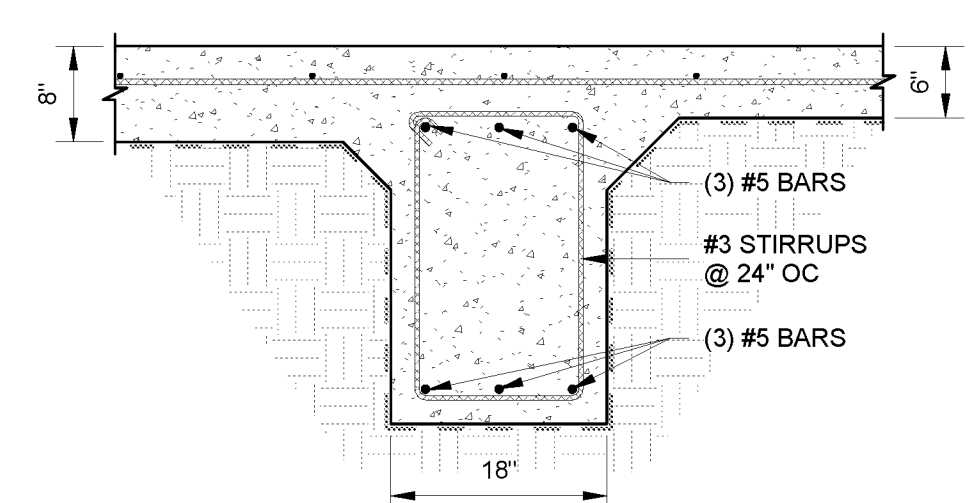
9 INTERIOR BEAM 12"
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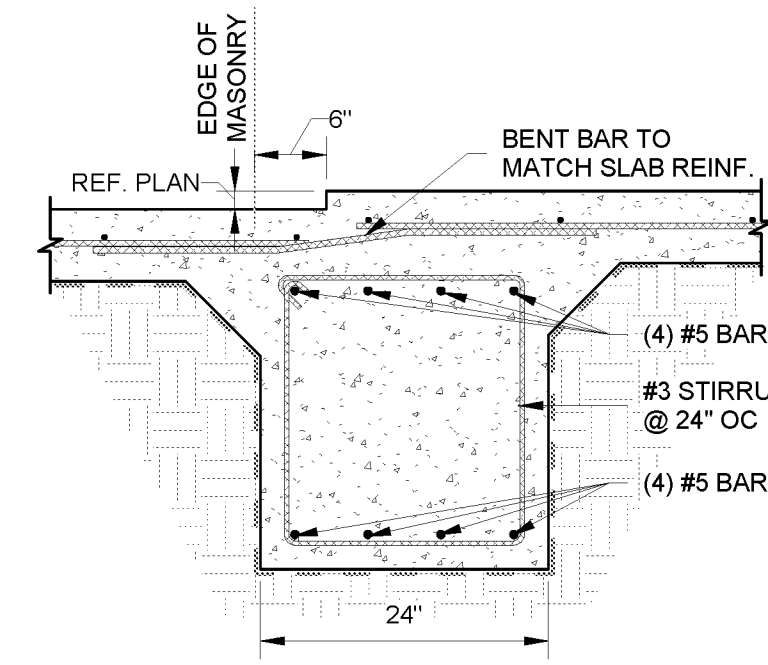
10 INTERIOR BEAM 18"
N.T.S.



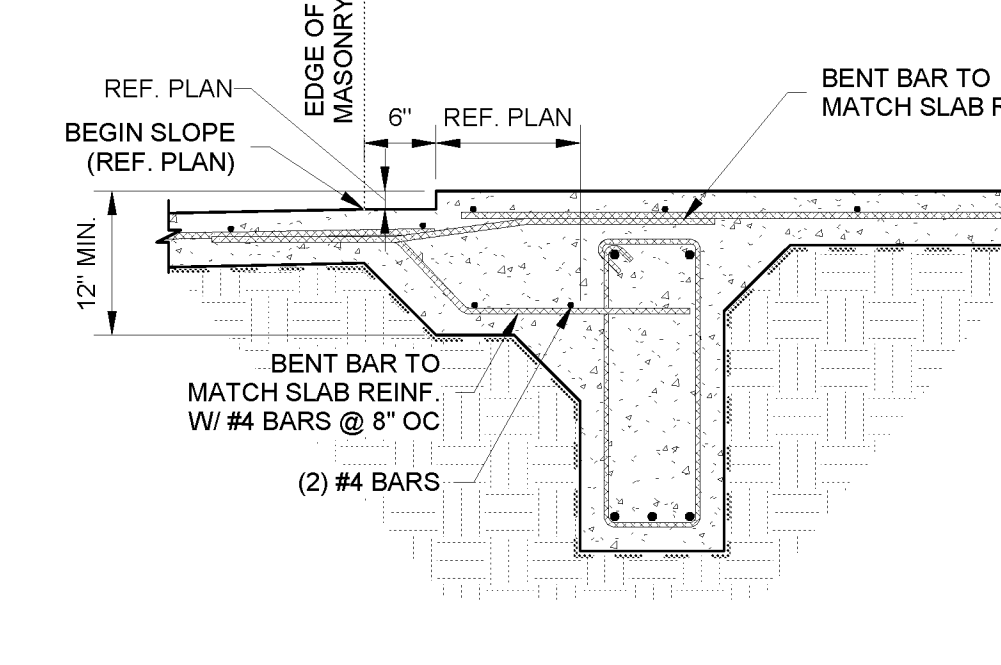
11 INTERIOR BEAM 24"
N.T.S.



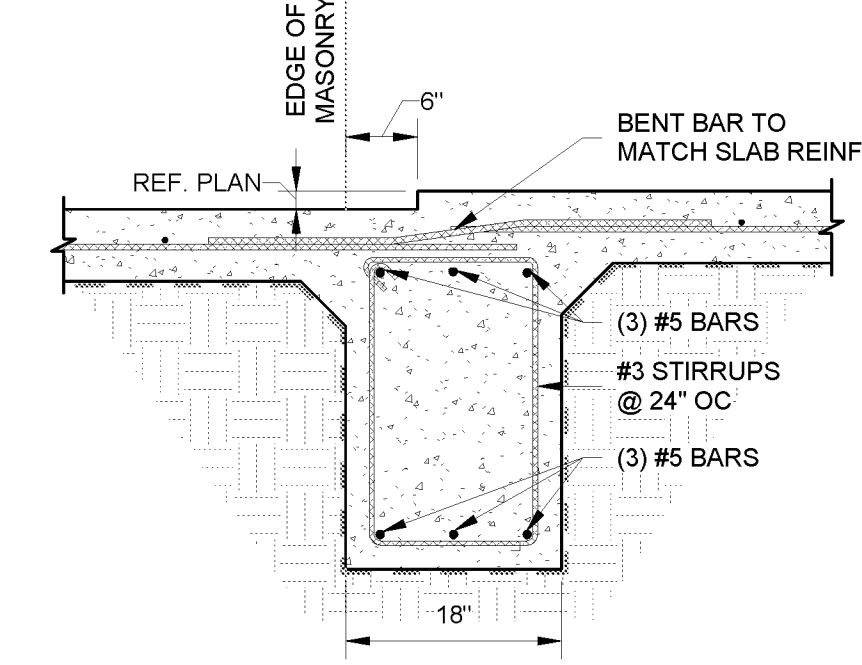
12 INTERIOR BEAM 18" W/ SLAB CHANGE
N.T.S.



13 24" INTERIOR BEAM W/ MASONRY LEDGE OFFSET IN
N.T.S.

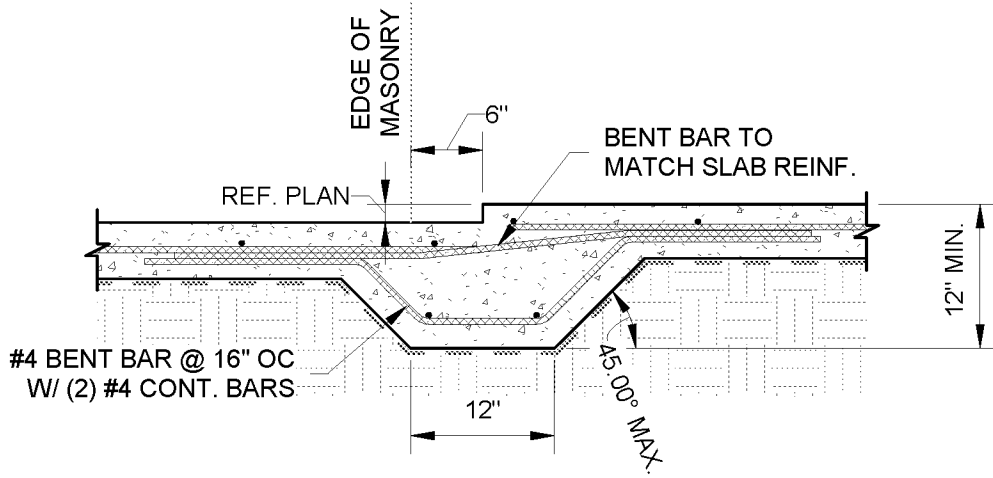


14 INTERIOR BEAM W/ THICKENED SLAB
N.T.S.

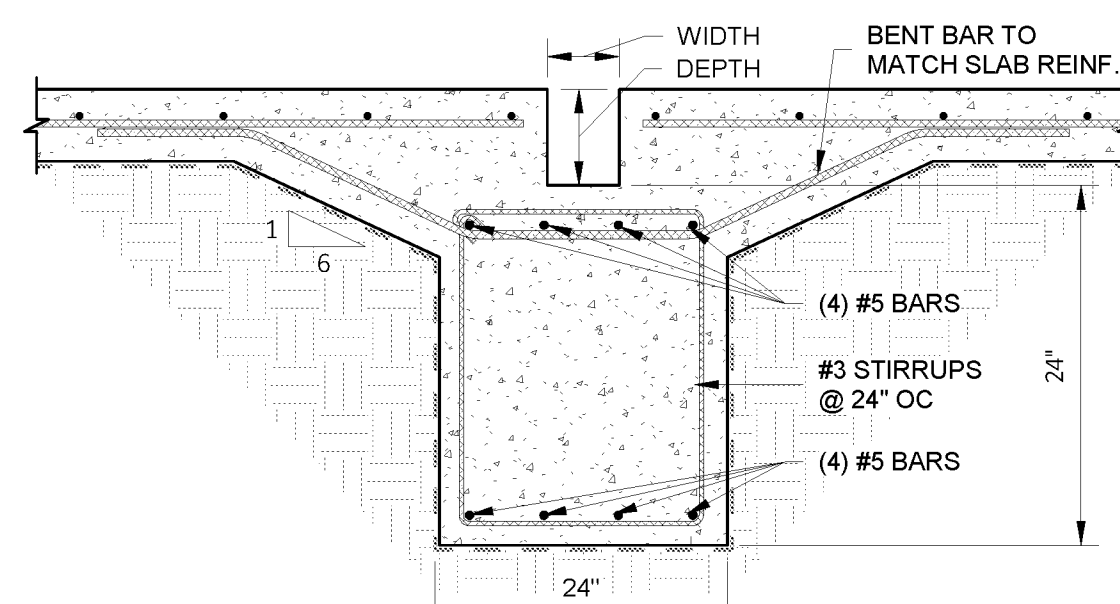


15 18" INTERIOR BEAM W/ MASONRY LEDGE
N.T.S.

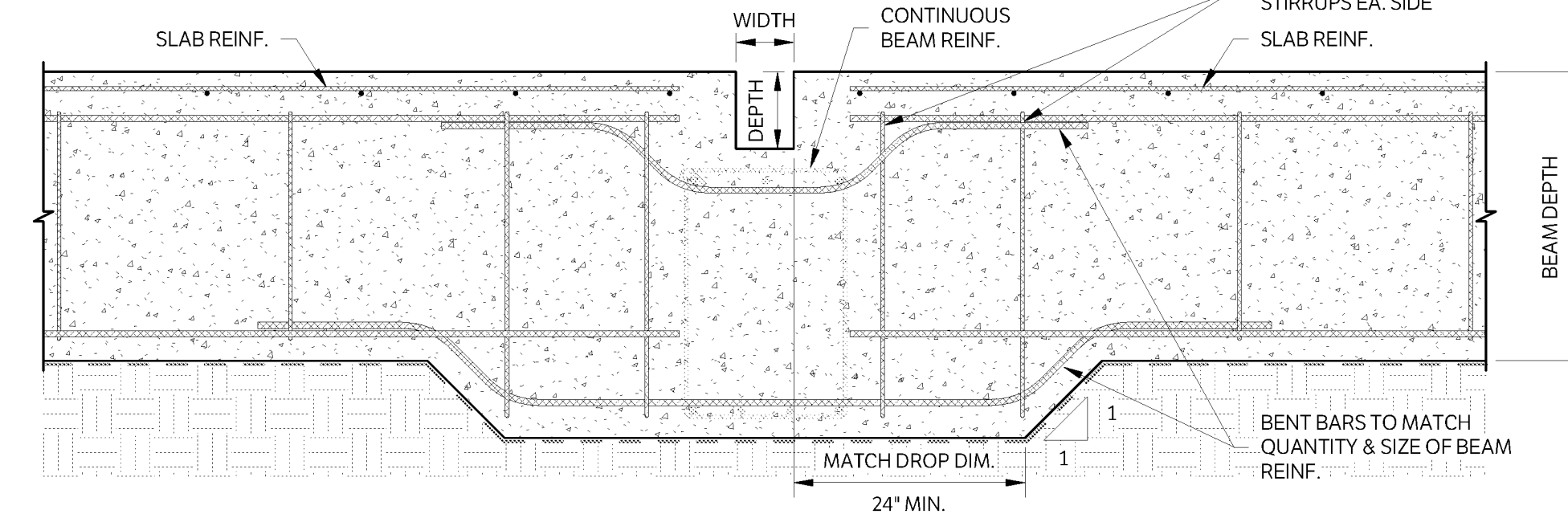
- NOTES:**
- TRENCH DRAIN WIDTH & DEPTH SHALL BE DETERMINED BY MANUF. WRITTEN REQ. & INSTRUCTIONS FOR INSTALLATION.
 - NO REINF. SHALL BE CUT OR MODIFIED TO ACCOMMODATE THE TRENCH DRAIN AND/OR ALL ASSOCIATED PLUMBING. PLACEMENT OF THE STEEL REINF. & FORMWORK SHALL BE COORDINATED W/ THE TRENCH DRAINS & ASSOCIATED PLUMBING PRIOR TO CONSTRUCTION.



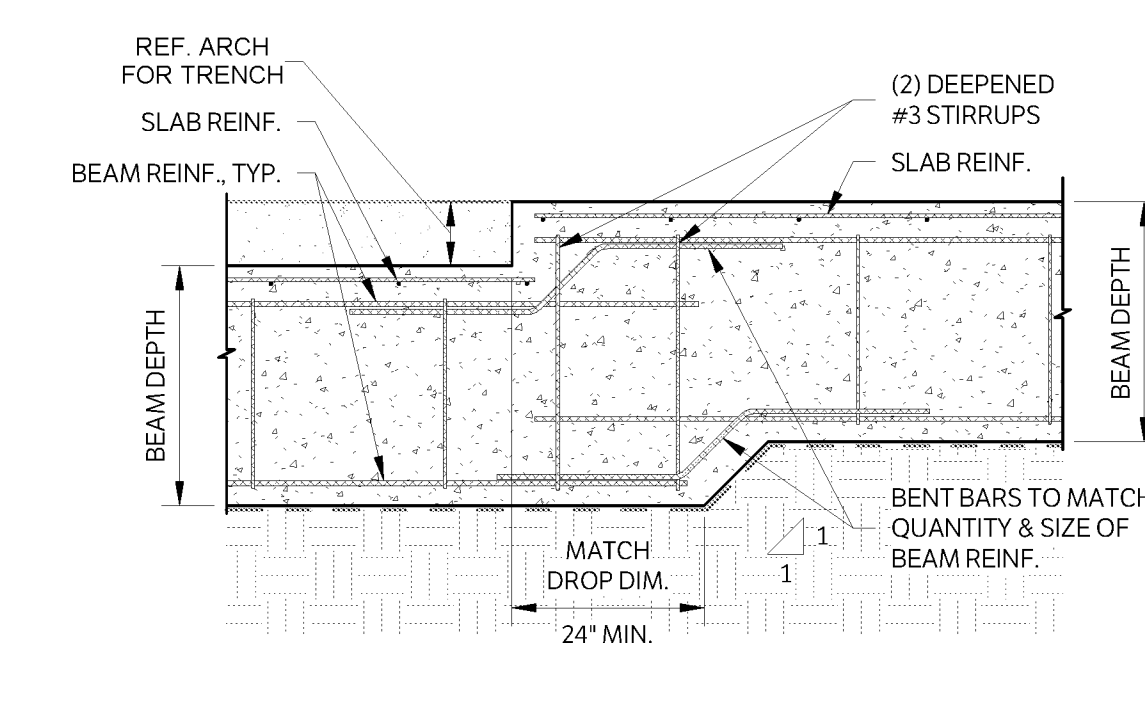
16 THICKENED SLAB W/ MASONRY LEDGE
N.T.S.



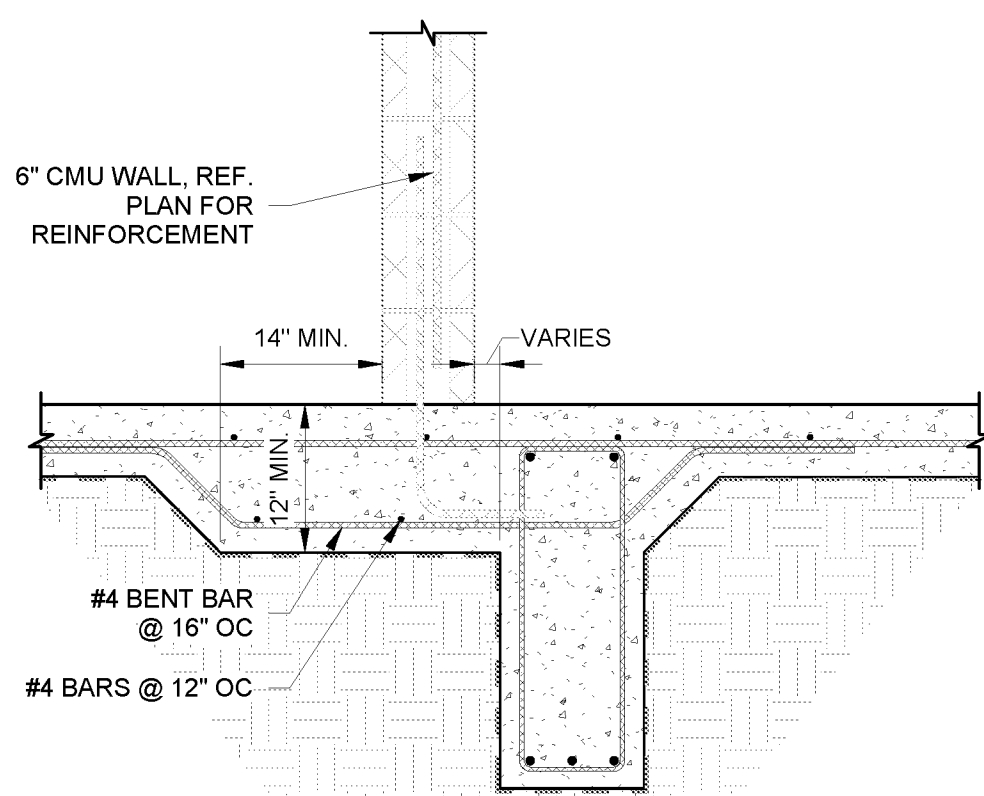
17 TRENCH DRAIN
N.T.S.



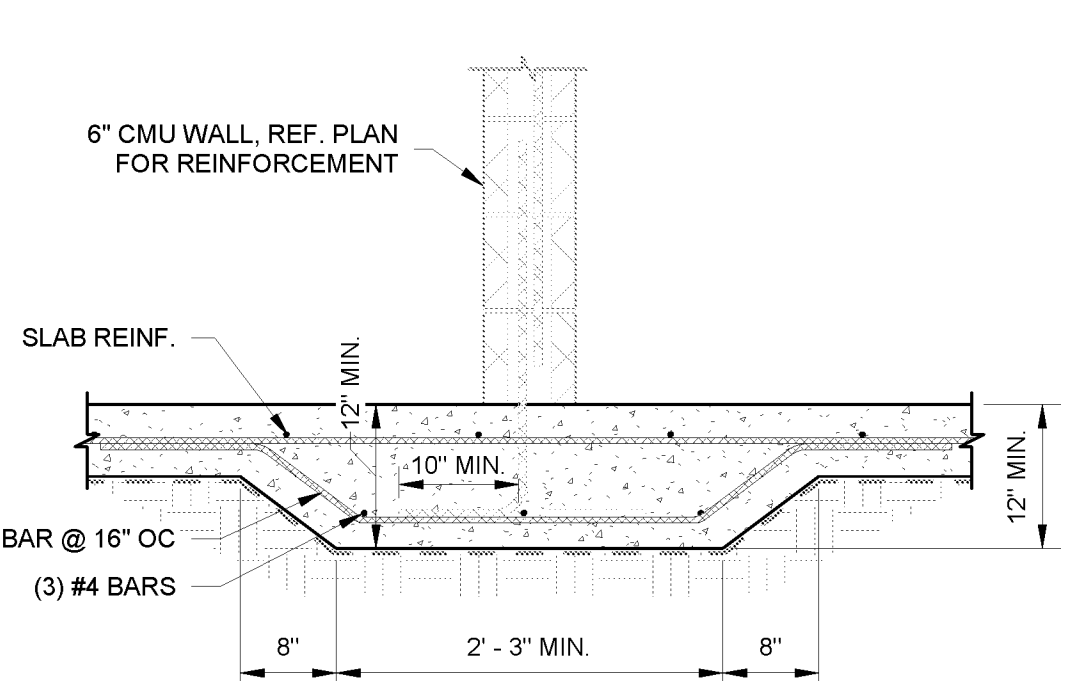
18 DROP IN BEAM STEEL @ TRENCH DRAIN
N.T.S.



19 DROP IN BEAM STEEL
N.T.S.

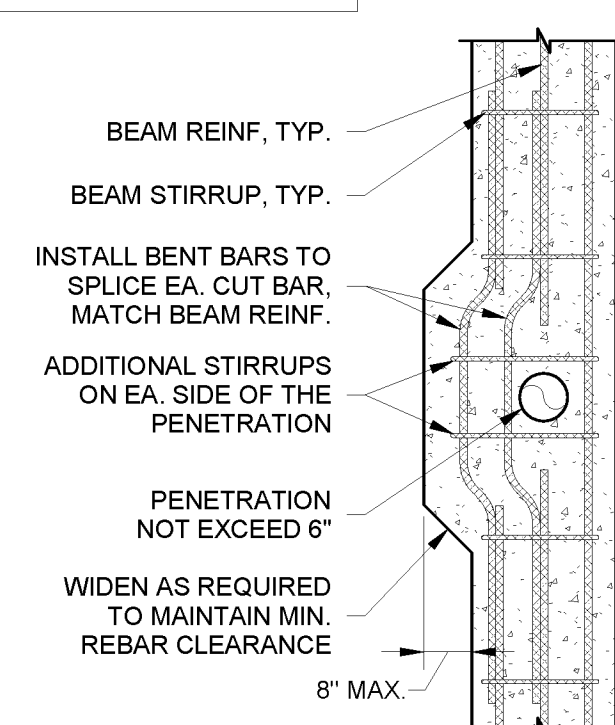


20 INTERIOR BEAM W/ CMU WALL AND THICKENED SLAB
N.T.S.



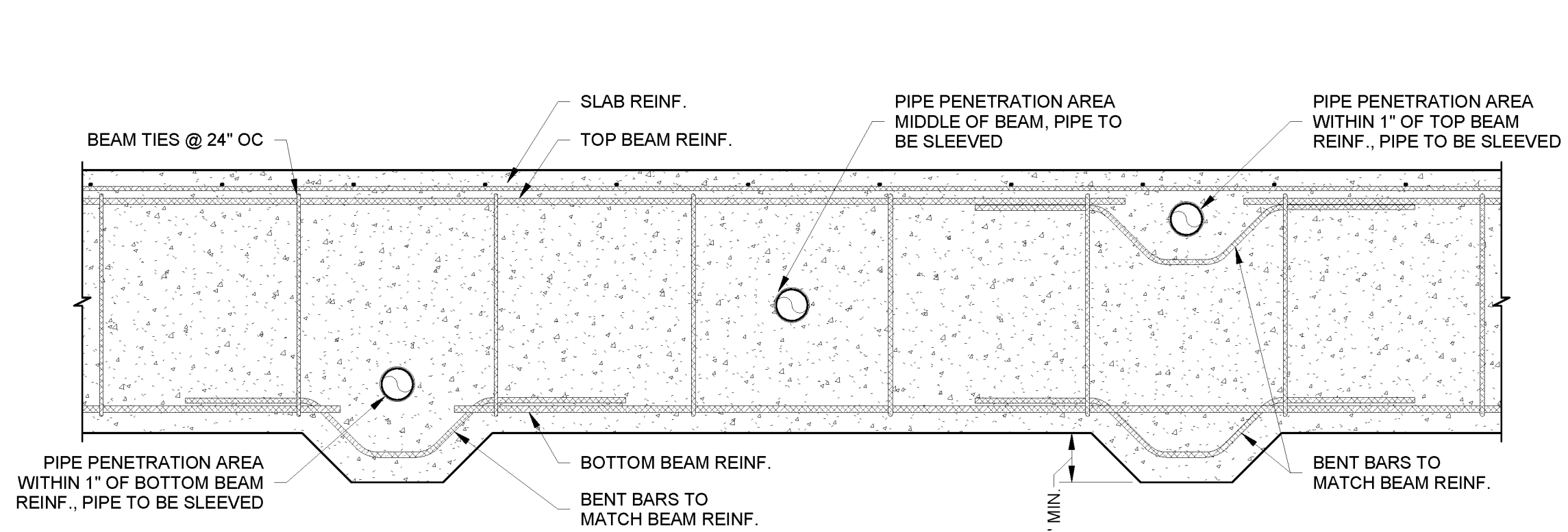
21 THICKENED SLAB UNDER CMU @ STORM SHELTER
N.T.S.

- NOTE:** IF PIPE PENETRATION OCCURS CENTER OF THE BEAM & THE PIPE W/ SLEEVE DIMENSION IS LESS THAN 6", THE CONTRACTOR MAY:
- NOT WIDEN THE BEAM.
 - REPLACE BENT BARS W/ (2) 48" DOWEL EACH SIDE OF PIPE.



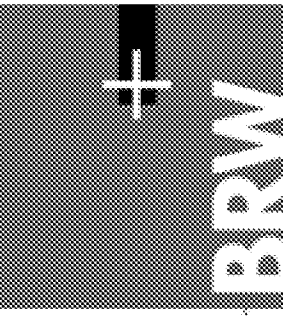
22 BEAM PENETRATION VERTICAL
N.T.S.

- NOTES:** WHEN PIPE SLEEVE IS WITHIN 1" OF BEAM REINF. BEAM REINF. SHALL BE STOPPED AND BENT BARS ADDED AS SHOWN BELOW.



23 BEAM PENETRATION DETAIL
N.T.S.

BROWN REYNOLDS WATFORD
ARCHITECTS
2702 PALM WOODS DRIVE SOUTH
COLLEGE PARK, TEXAS 77424
WWW.BRWARCHITECT.COM



CORPORATE OFFICE
2501 ASHFORD DRIVE
COLLEGE PARK, TEXAS 77424
1-877-GESSNER (437-7637)
WWW.GESSNERENGINEERING.COM
FIRM REGISTRATION NUMBERS:
1BPE-7451, 1BPE-CP-1015910



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DATE 11.16.18
DRAWN BY EHV
CHECKED BY DAY
PROJECT NO. 217073.00

WILLIAMSON CO. ESD 8 / CITY OF GEORGETOWN
GEORGETOWN FIRE STATION No. 6
6700 R.M. 2338
GEORGETOWN, TX 78626

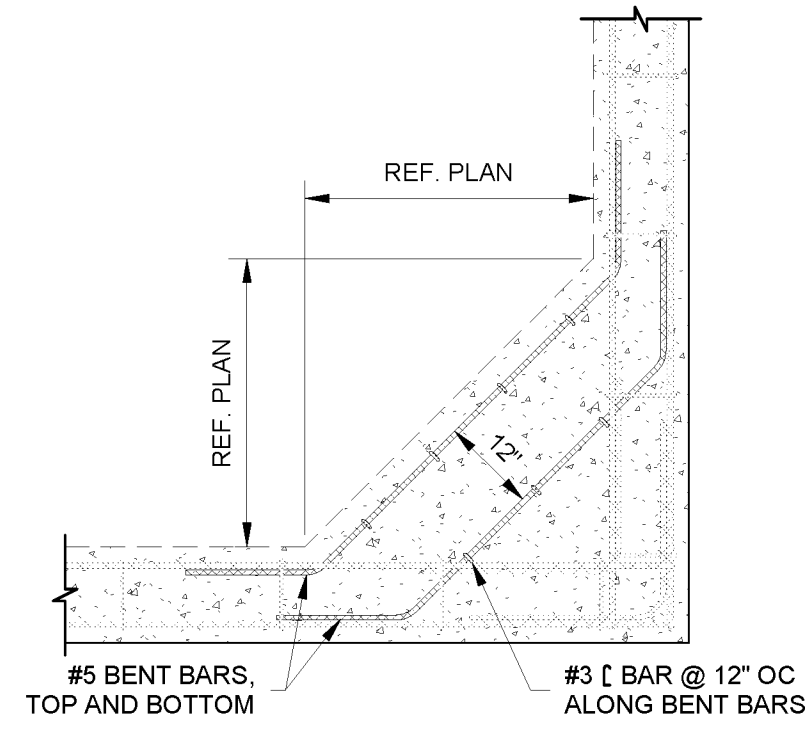


NO.	DESCRIPTION	DATE

S5.0

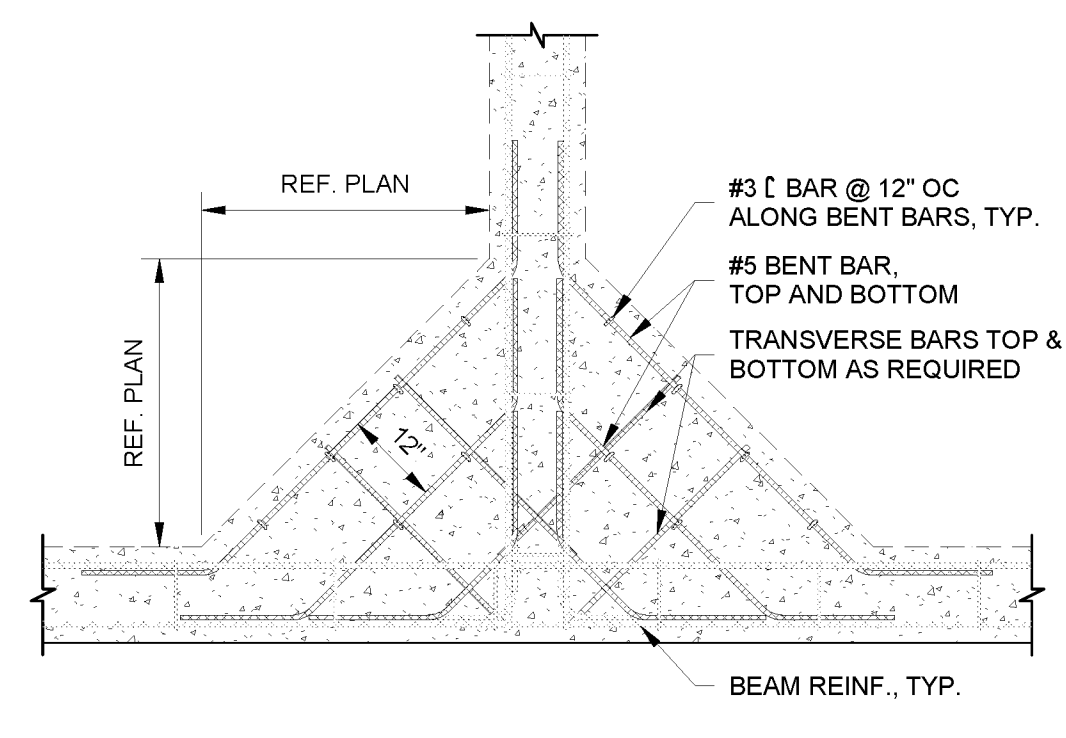
FOUNDATION DETAILS

FOOTING WIDTH	# OF BENT BARS
12"	1
24"	2



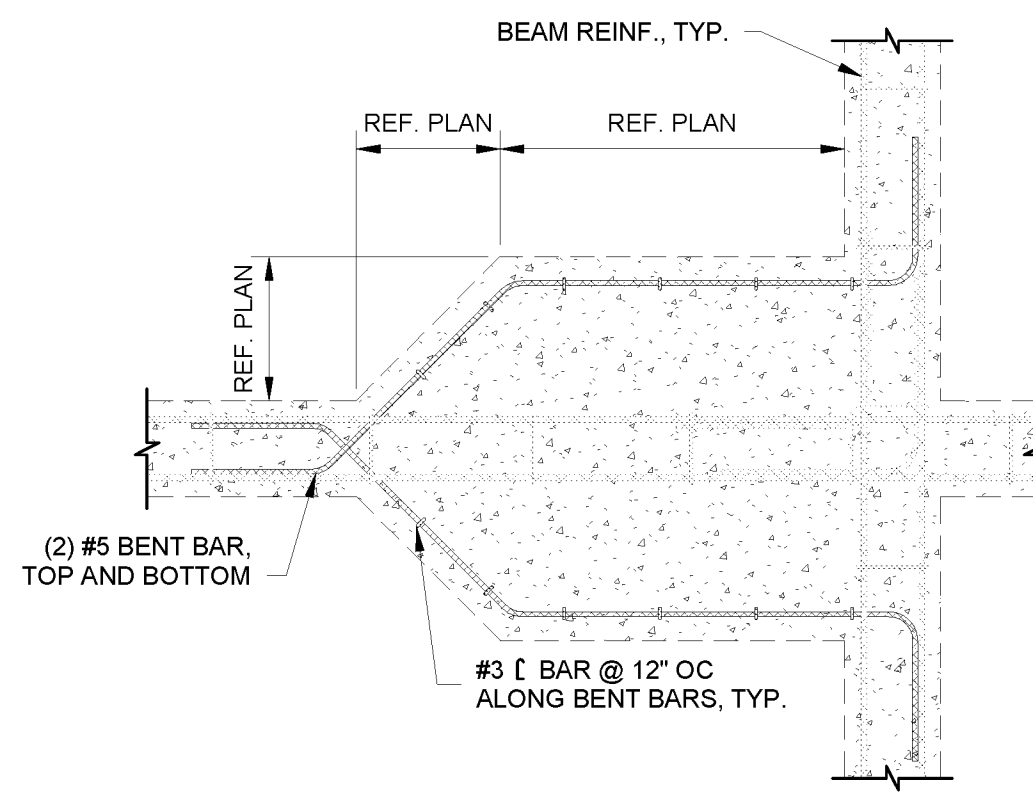
1 FOOTING AT EXTERIOR CORNER
N.T.S.

FOOTING WIDTH	# OF BENT BARS	TRANSVERSE BARS
36"	3	#5 @ 12" OC



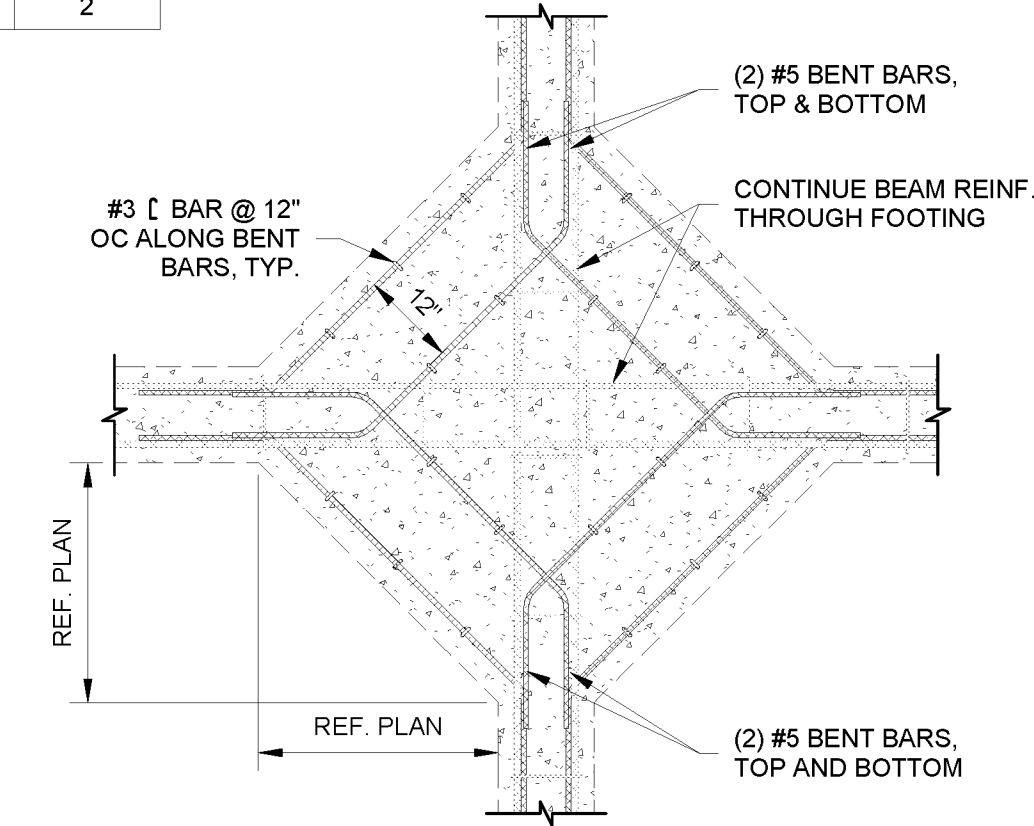
2 FOOTING AT EXTERIOR INTERSECTION
N.T.S.

FOOTING WIDTH	# OF BENT BARS
18"	1



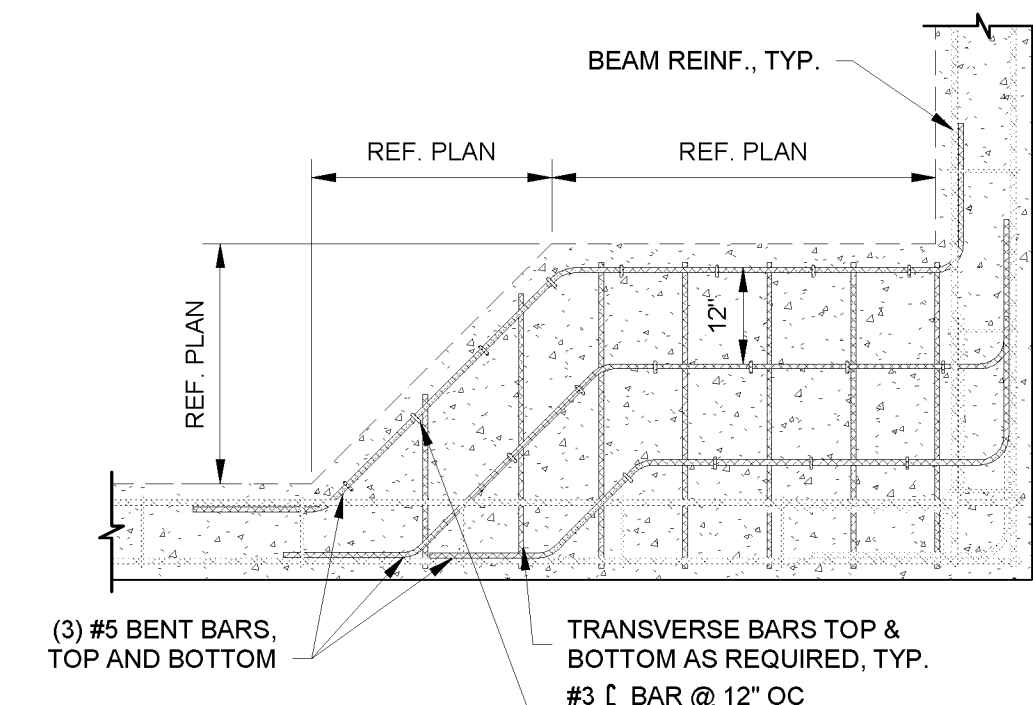
3 FOOTING AT INTERIOR CORNER W/ OFFSET
N.T.S.

FOOTING WIDTH	# OF BENT BARS
24"	2

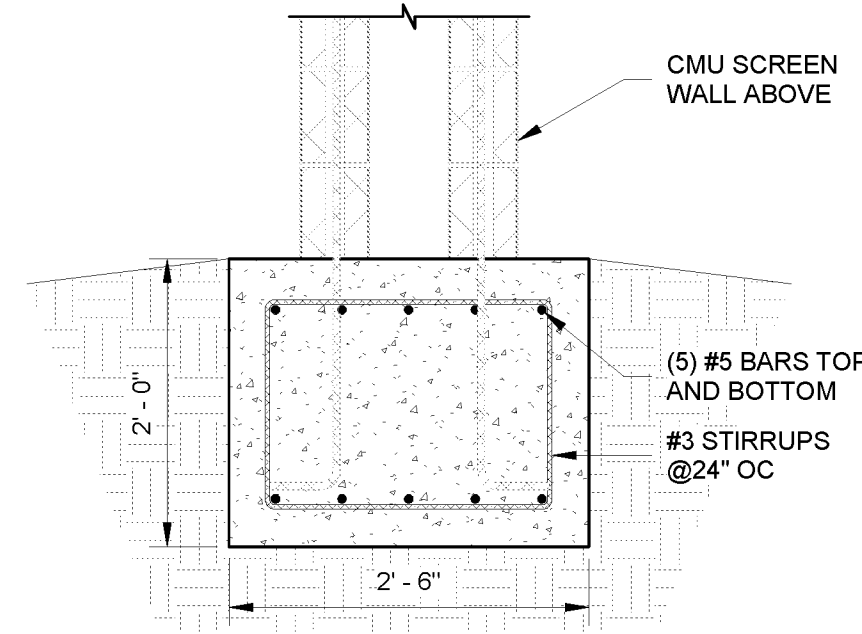


4 FOOTING AT INTERIOR INTERSECTION
N.T.S.

FOOTING WIDTH	# OF BENT BARS	TRANSVERSE BARS
30"	3	#5 BARS @ 12" OC

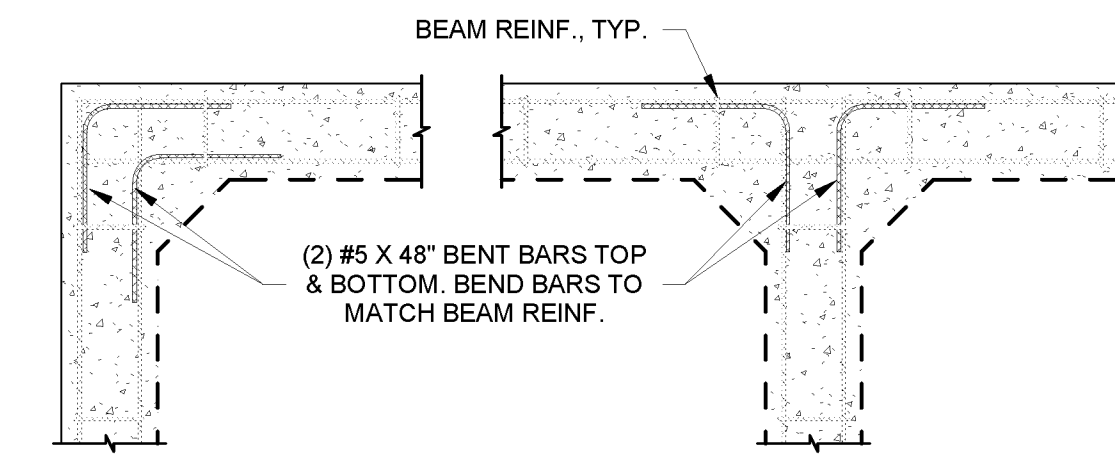


5 FOOTING AT CORNER W/ OFFSET
N.T.S.



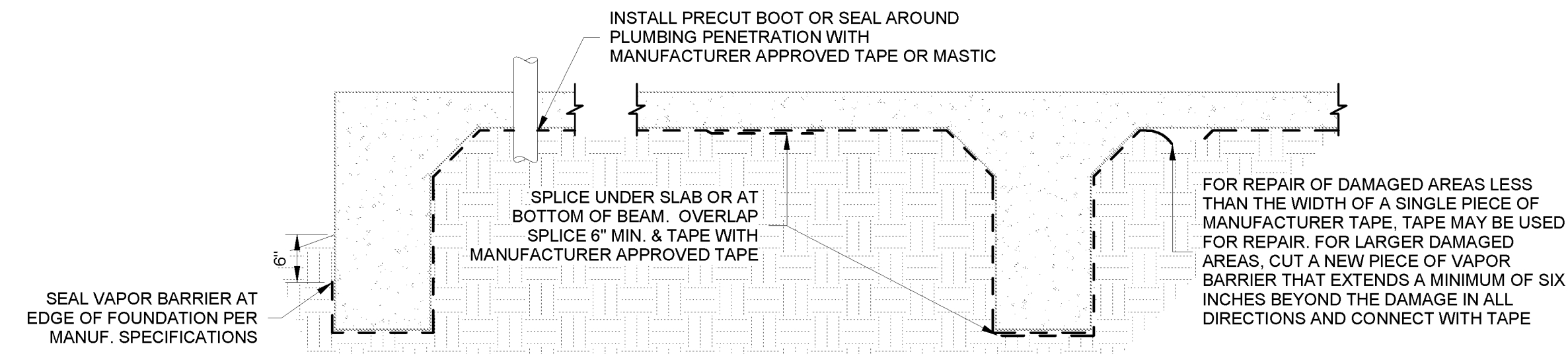
6 MONUMENT SIGN FOOTING
N.T.S.

NOTES:
1. PROVIDE CORNER BARS AS SHOWN AT ALL EXTERIOR BEAM INTERSECTIONS.
2. THIS IS A SCHEMATIC ONLY. SEE BEAM SECTIONS FOR ACTUAL BEAM REINFORCEMENT. (SLAB NOT SHOWN)



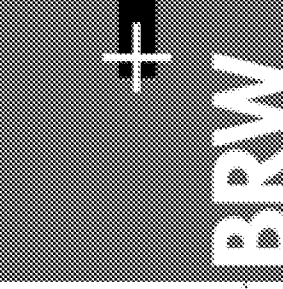
7 GRADE BEAM INTERSECTIONS
N.T.S.

NOTES:
1. VAPOR BARRIER AS DETAILED TO BE INSTALLED BELOW ALL FOUNDATION CONCRETE.
2. REFERENCE SPECIFICATION DIVISION 07 FOR VAPOR BARRIER PERMEANCE AND THICKNESS SPECIFIC TO THIS PROJECT.

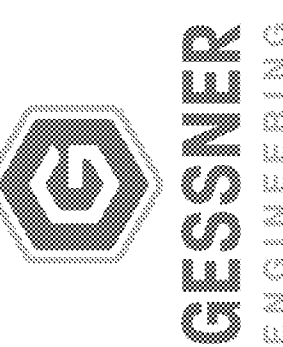


8 VAPOR BARRIER DETAIL
N.T.S.

BROWN REYNOLDS WATFORD
ARCHITECTS
2702 PALM WOODEN DRIVE SOUTH
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CORPORATE OFFICE
2501 ASHFORD DRIVE
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WWW.GESSNERENGINEERING.COM
FIRM REGISTRATION NUMBERS:
TYPE-P-7451, TYPE-LP-10159510



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DATE 11.16.18
DRAWN BY EH
CHECKED BY DAV
PROJECT NO. 217079.00

WILLIAMSON CO. ESD 8 / CITY OF GEORGETOWN
GEORGETOWN FIRE STATION No. 6
6700 R.M. 2338
GEORGETOWN, TX 78626

NO.	DESCRIPTION	DATE

S5.1

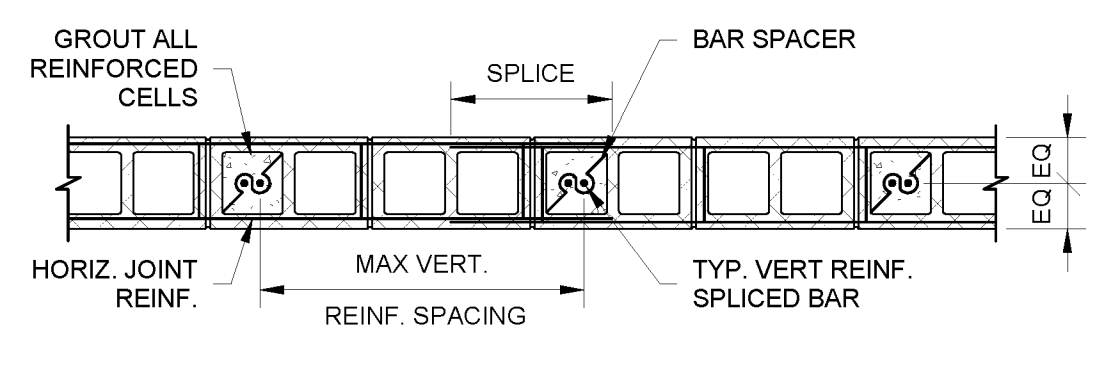
NOTE:
 1. MAINTAIN MINIMUM 3"x3" CLEAR UNOBSTRUCTED CONTINUOUS VERTICAL CELL AT EACH REBAR. PLACE WALLS TO MAX. 5' - 0" HEIGHT BEFORE GROUTING.
 2. PLACE REBAR IN WALL WITH LAP SPLICE LENGTH PER SCHEDULE.
 3. STOP GROUT POUR 1 1/2" BELOW TOP OF COURSE. AT EACH GROUT LIFT, EXCEPT AT LINTELS & BOND BEAMS EXTEND GROUT TO TOP OF GROUTED COURSE.
 4. PROVIDE REBAR POSITIONS AT MANUFACTURER RECOMMENDED SPACING, BUT NOT TO EXCEED 48" OC.

JAMB REINFORCING SCHEDULE	
W	REINFORCING
3' - 8"	(1) #5
7' - 0" TO 10' - 0"	(2) #5 (1 PER CELL)
10' - 0" TO 14' - 0"	(3) #5 (1 PER CELL)

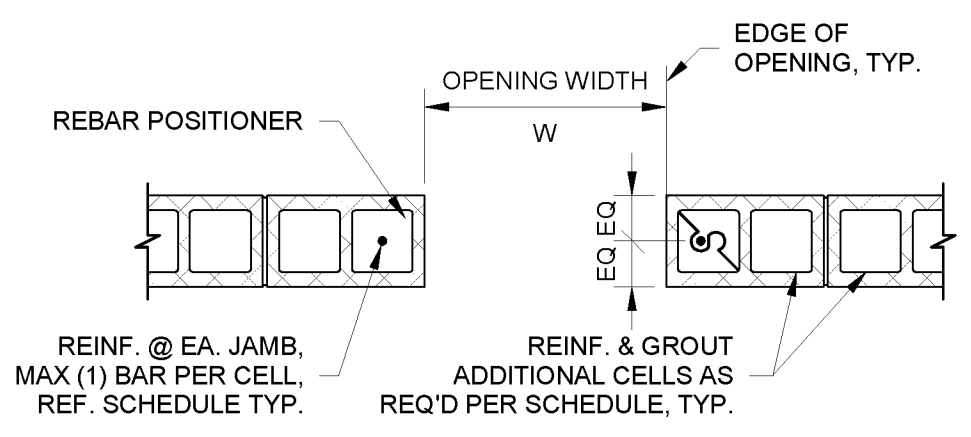
NOTES:
 1. INTERSECTING WALL CMU BLOCKS SHALL BE INTERLOCKED WITH INTERSECTED CMU WALL, UNLESS SPECIFICALLY NOTED AS A CONTROL OR EXPANSION JOINT.
 2. AT CONTRACTORS OPTION, IN LIEU OF INTERLOCKING CMU COURSING, REMOVE WEB AND FACE SHELL AT INTERFACE AND GROUT MONOLITHICALLY.

NOTES:
 CORNER BAR AND DOWELS SHALL MATCH SIZE OF TYPICAL BOND BEAM REINFORCING.

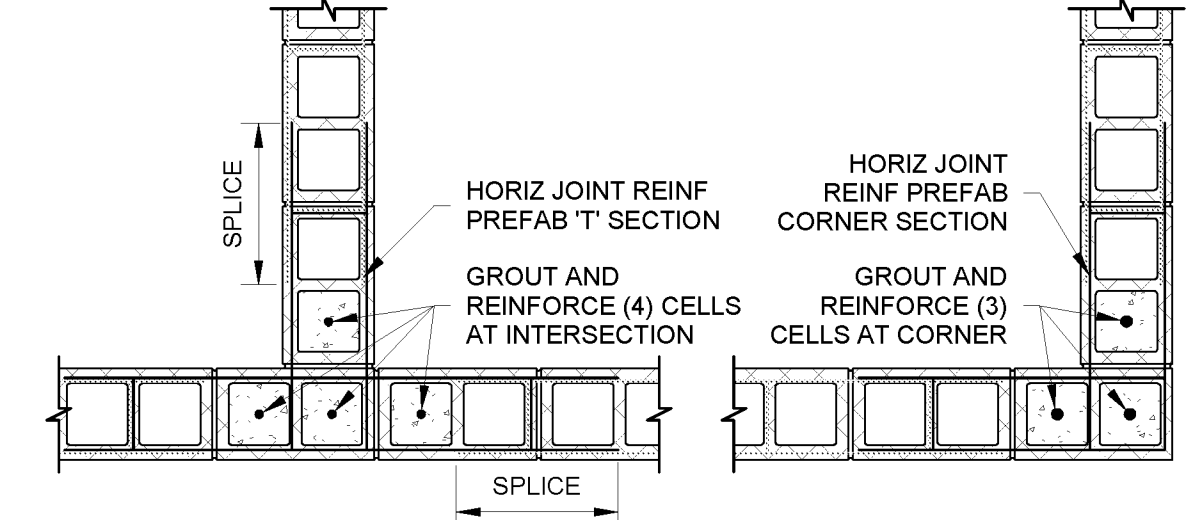
NOTE: REF. ARCH. FOR CMU CONTROL JOINT LOCATIONS.



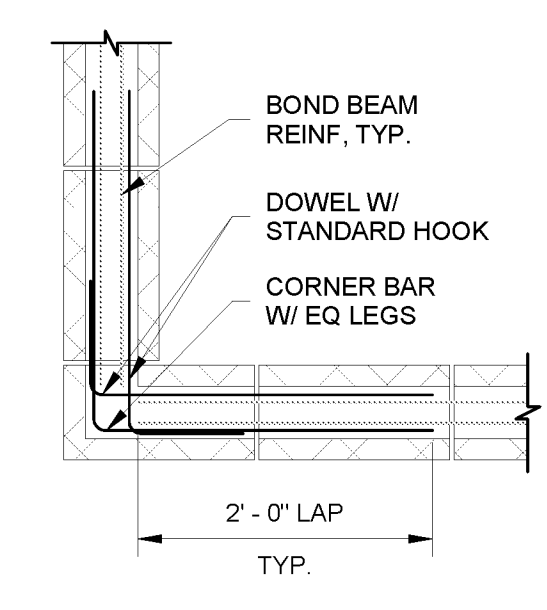
1 TYPICAL 8" CMU WALL REINFORCING DETAIL N.T.S.



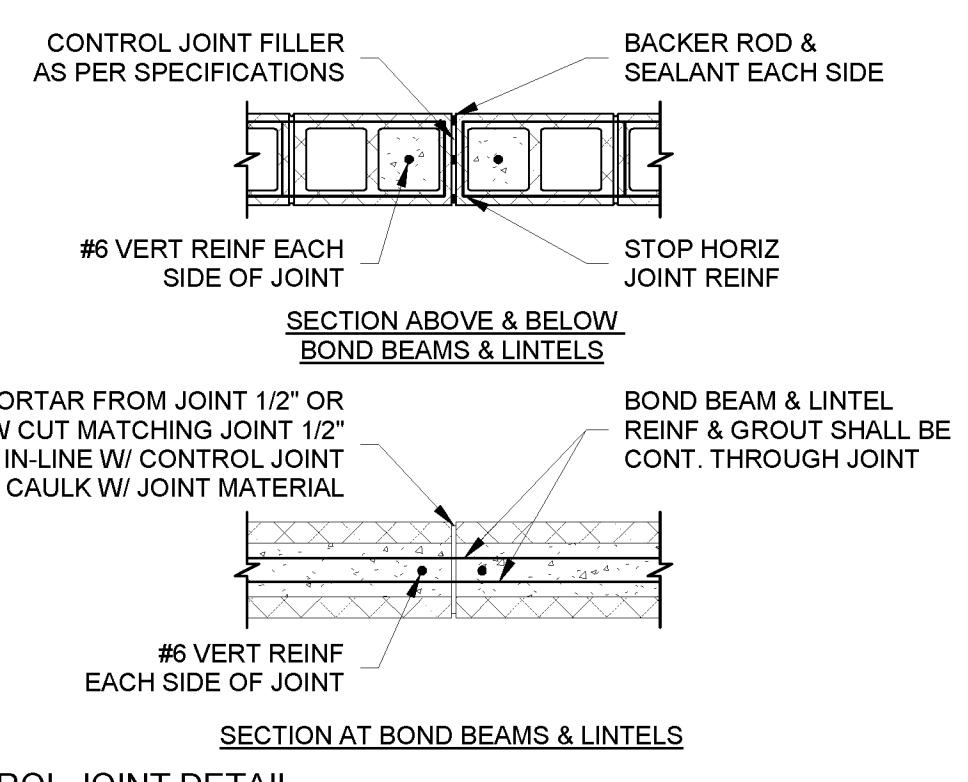
2 TYPICAL 8" CMU JAMB DETAIL N.T.S.



3 CMU WALL CORNER REINFORCING DETAIL N.T.S.

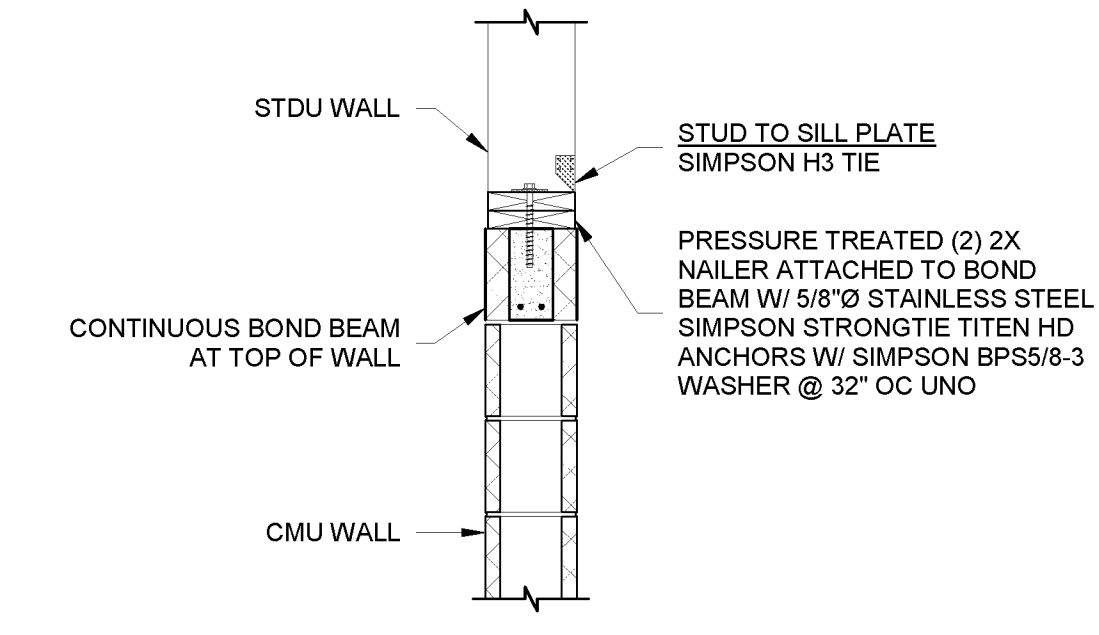


4 TYPICAL BOND BEAM CORNER REINFORCEMENT N.T.S.



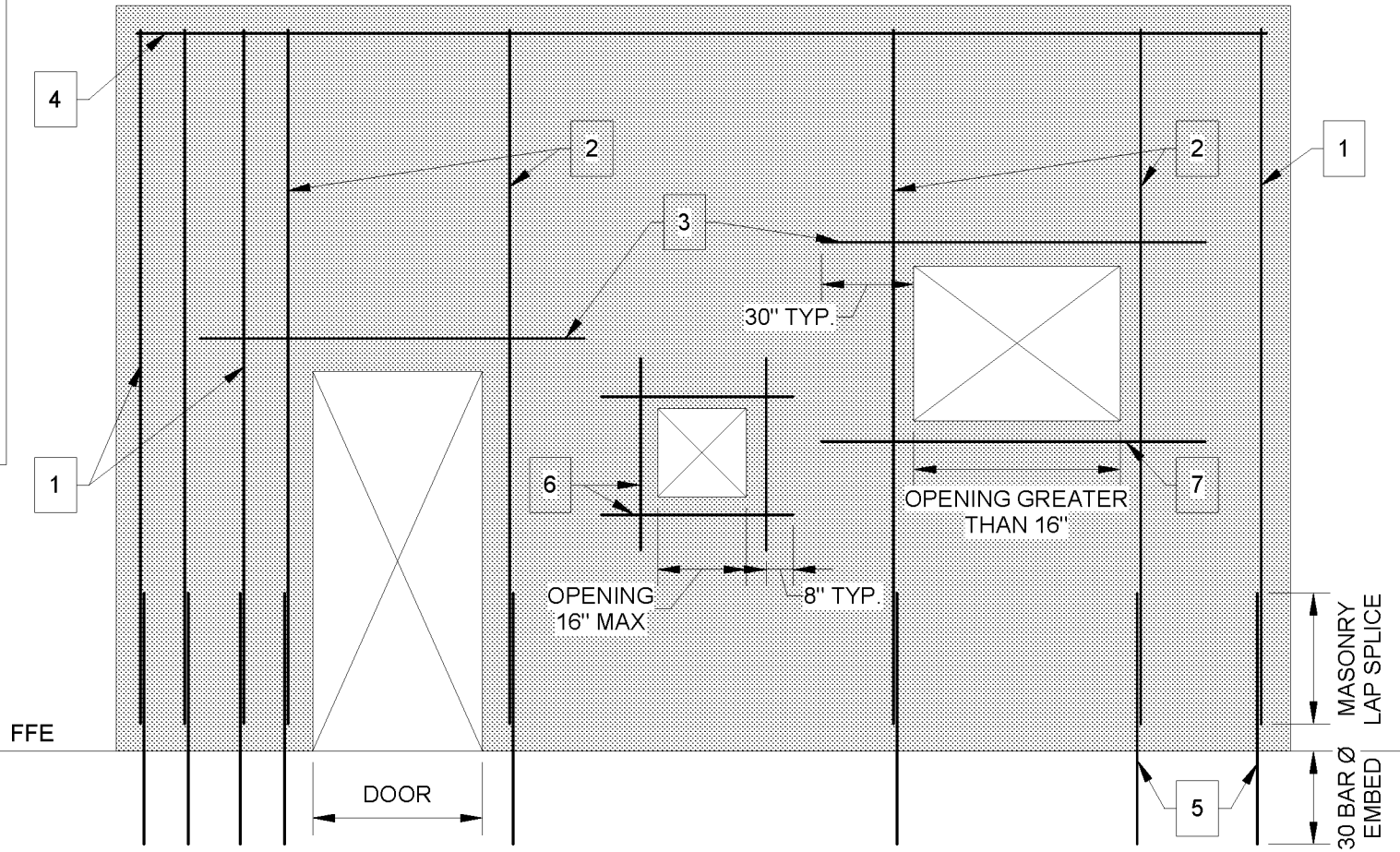
5 CMU CONTROL JOINT DETAIL N.T.S.

NOTE:
 1. SQUARE WASHER IS NOT REQUIRED AT THIS CONDITION.
 2. ANCHOR SHALL BE INSTALLED THROUGH BOTTOM NAILER ONLY, WITH TOP NAILER NOTCHED TO ACCEPT ANCHOR HEADS.

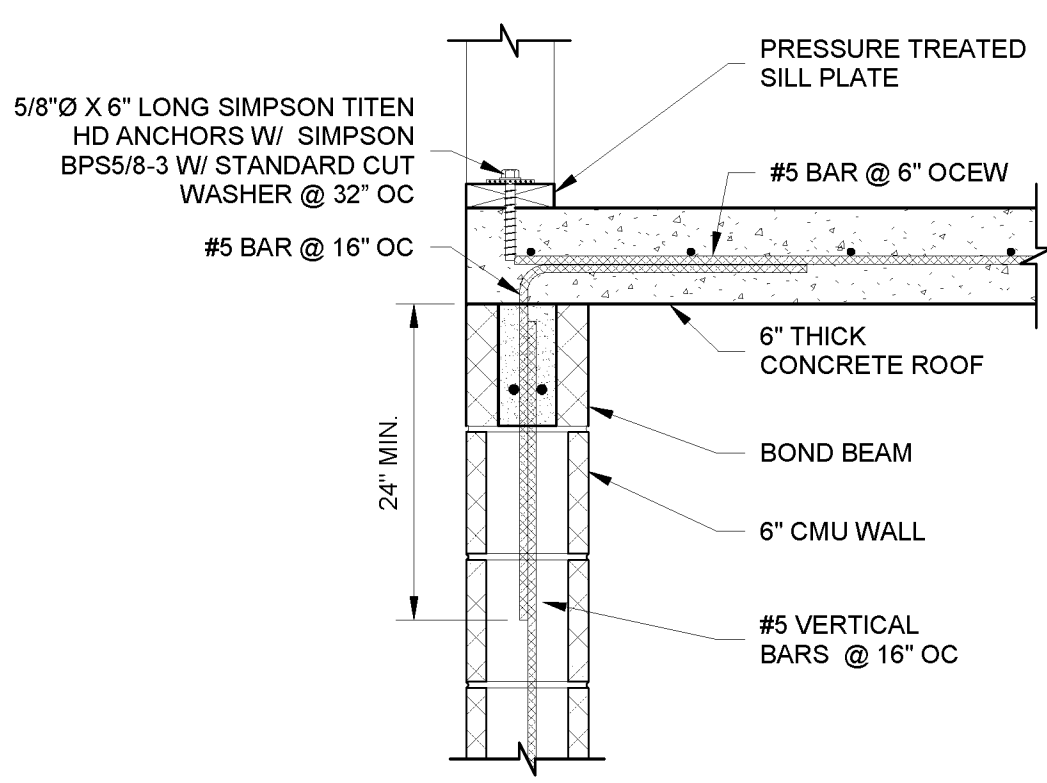


6 STUD WALL TO CMU N.T.S.

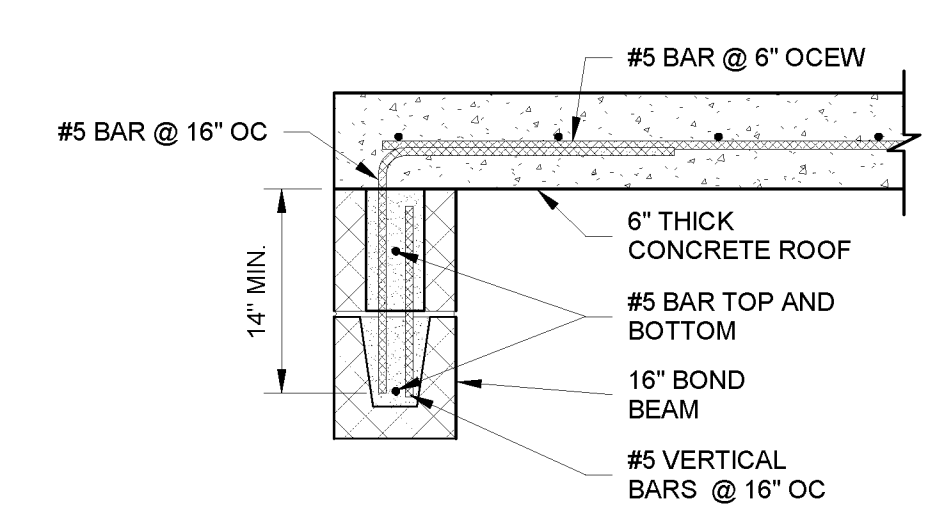
1. TYPICAL WALL REINFORCEMENT SHALL BE #5 BARS, SPACING AS NOTED ON S2.0. ADDITIONAL REINFORCEMENT AT CORNERS AND INTERSECTIONS.
 2. JAMB REINFORCEMENT: (1) #5 EA. SIDE OF OPENING FOR MAX 5'-0" OPENING WIDTH.
 3. LINTEL REINFORCEMENT: REF. PLAN FOR DEPTH AND LINTEL SCHEDULE FOR REINF.
 4. BOND BEAM REINFORCEMENT: SEE BOND BEAM DETAIL.
 5. DOWEL EMBEDDED INTO GRADE BEAM BELOW. SIZE AND QUANTITY TO MATCH VERTICAL REINFORCEMENT WITH REQUIRED LAP SPLICE.
 6. (1) #5 EACH SIDE, TOP & BOTTOM.
 7. SILL REINFORCEMENT: (2) #5 SIMILAR TO BOND BEAM.
 8. ALL CELLS WITH REINFORCING SHALL BE SOLIDLY GROUTED.
 9. ALL COURSES WITH REINFORCING SHALL BE SOLIDLY GROUTED. PROVIDE GROUT SCREEN AS REQUIRED.



7 TYPICAL REINFORCED CMU WALL ELEVATION N.T.S.



8 WALL AND ROOF CONNECTION FOR SHELTER N.T.S.



9 WALL SECTION AT DOOR FOR SHELTER N.T.S.

MASONRY LINTEL AND BOND BEAM SCHEDULE		
	BOND BEAM WITHIN WALL	BOND BEAM OVER OPENING
<p>SINGLE</p> <p>PROVIDE WITHIN WALL: WHERE SHOWN - AT TOP OF ALL WALLS LESS THAN 12' - 0" TALL, U.N.O.</p> <p>PROVIDE OVER OPENING: WHERE SHOWN - OVER NON-LOAD BEARING OPENINGS NOT GREATER THAN 3' - 8"</p>	<p>2 #5 BARS, PROVIDE CORNER BARS @ CORNERS EXTEND REINF INTO BOND BEAM AND PROVIDE STANDARD HOOK AT TOP OF WALL</p>	<p>(2) #5 BARS, PROVIDE CORNER BARS @ CORNERS U-BLOCK</p>
<p>DOUBLE</p> <p>PROVIDE WITHIN WALL: WHERE SHOWN - AT ENDS OF ASSOCIATED BOND BEAM OVER OPENING - AT TOP OF ALL WALLS GREATER THAN 12' - 0" TALL, UNO</p> <p>PROVIDE OVER OPENING: WHERE SHOWN - OVER NON-LOAD BEARING OPENINGS NOT GREATER THAN 7' - 0"</p>	<p>(2) #5 BARS, PROVIDE CORNER BARS @ CORNERS EXTEND REINF INTO BOND BEAM AND PROVIDE STANDARD HOOK AT TOP OF WALL</p>	<p>(2) #5 BARS, PROVIDE CORNER BARS @ CORNERS</p>
<p>TRIPLE</p> <p>PROVIDE WITHIN WALL: WHERE SHOWN - AT ENDS OF ASSOCIATED BOND BEAM OVER OPENING</p> <p>PROVIDE OVER OPENING: WHERE SHOWN</p>	<p>(2) #5 BARS, PROVIDE CORNER BARS @ CORNERS EXTEND REINF INTO BOND BEAM AND PROVIDE STANDARD HOOK AT TOP OF WALL</p>	<p>(2) #5 BARS, PROVIDE CORNER BARS @ CORNERS</p>

NOTES:
 1. WHERE CONTROL JOINTS ARE TO BE PLACED ADJACENT TO OPENINGS, MASONRY OVER NON-LOAD BEARING HEADER SPECIFIED ABOVE SHALL NOT EXCEED 4' - 0" IN HEIGHT. WHERE THIS REQUIREMENT IS NOT MET, GESSNER ENGINEERING SHALL BE CONTACTED FOR ADDITIONAL INFORMATION.
 2. BARS SHALL NOT BE SPLICED OVER OPENINGS.
 3. SPLICE BARS WITHIN WALL AS REQUIRED. STAGGER LAP SPLICING WITHIN COURSE.

10 BOND BEAM SCHEDULE N.T.S.

BROWN REYNOLDS WATFORD ARCHITECTS
 2702 PALM WOODS DRIVE, SUITE 100
 GEORGETOWN, TEXAS 75626
 WWW.BRWARCHITECTS.COM

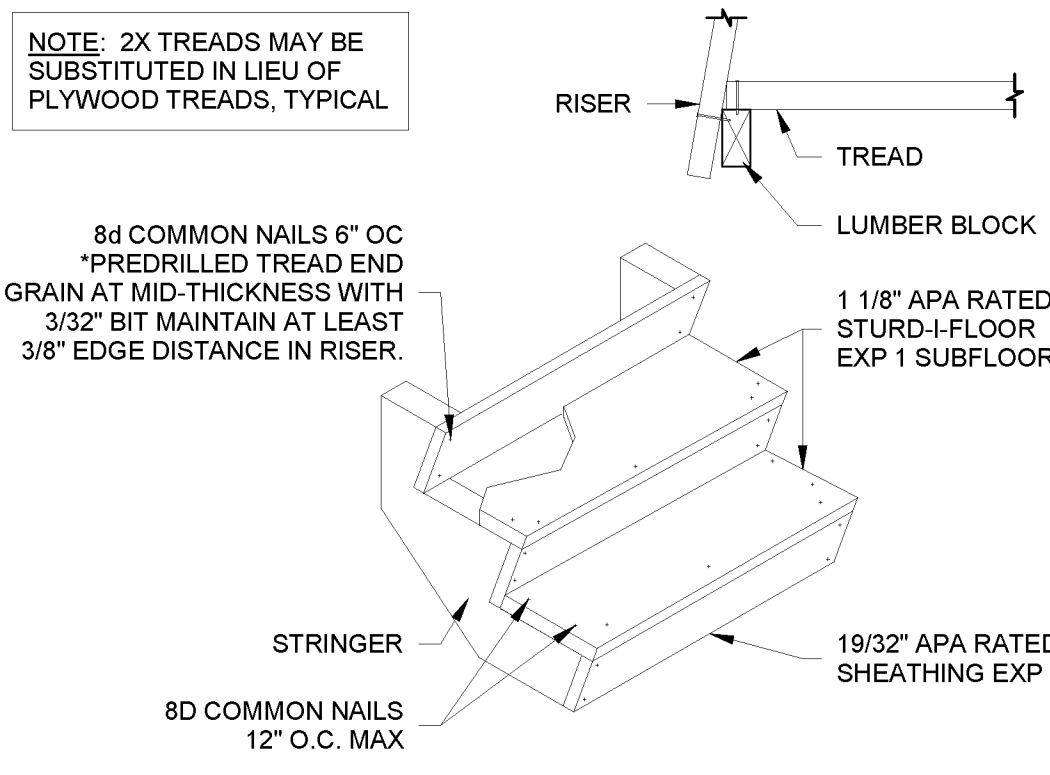
BRW

GESSNER ENGINEERING
 2501 LASHFORD DRIVE, SUITE 100
 GEORGETOWN, TEXAS 75626
 1-877-GESSNER (437-7637)
 WWW.GESSNERENGINEERING.COM
 FIRM REGISTRATION NUMBERS:
 18PE-7451, 18PE-7452, 18PE-7453, 18PE-7454

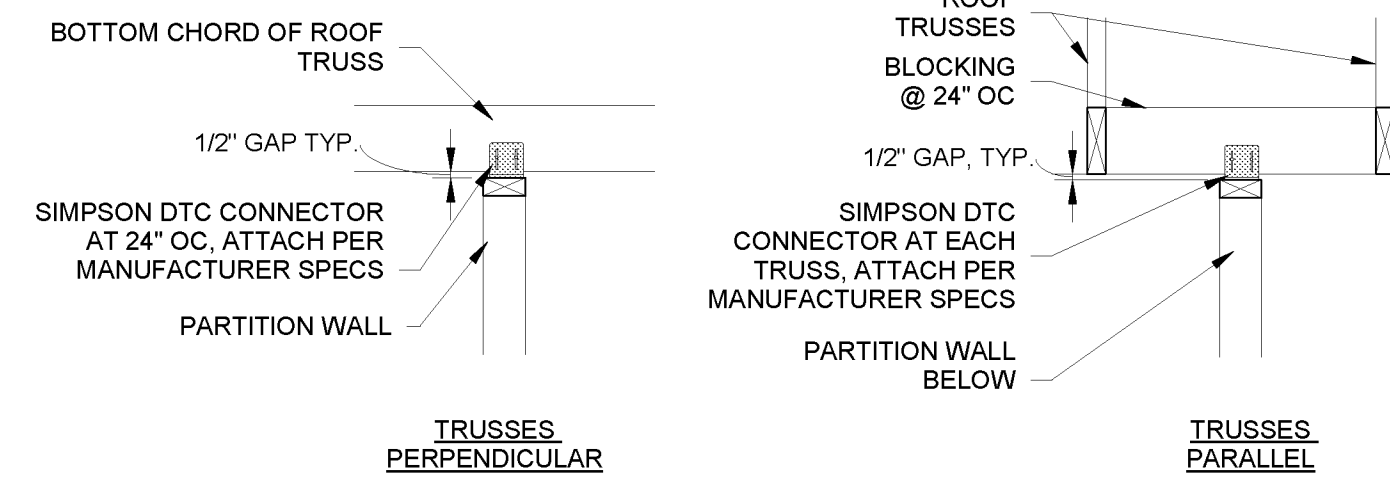
GEORGETOWN FIRE STATION No. 6
 6700 R.M. 2338
 GEORGETOWN, TX 75626

DATE: 11.16.18
DRAWN BY: EH
CHECKED BY: DAY
PROJECT NO.: 217079.00

NO.	DESCRIPTION	DATE

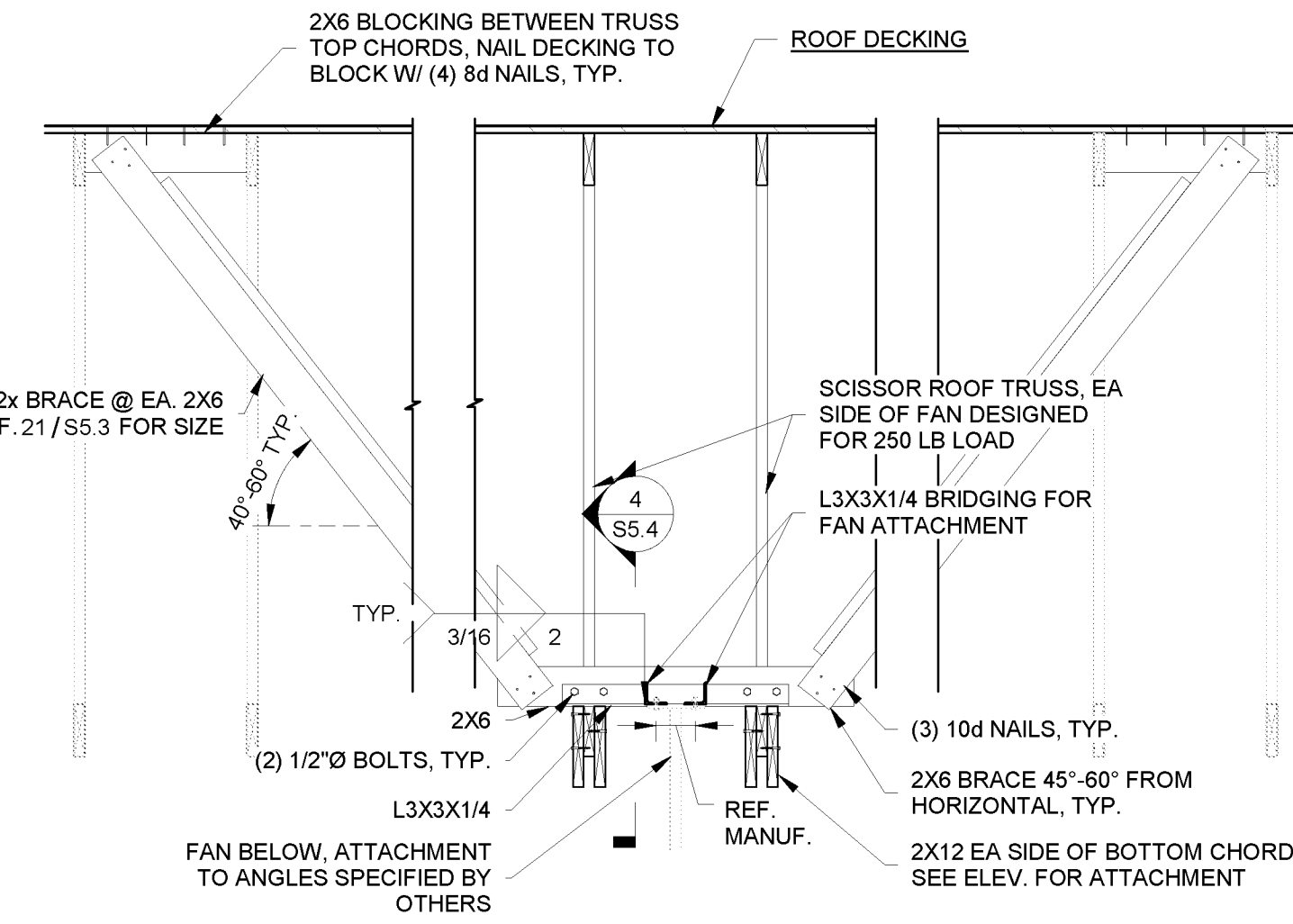


1 STAIR FRAMING N.T.S.



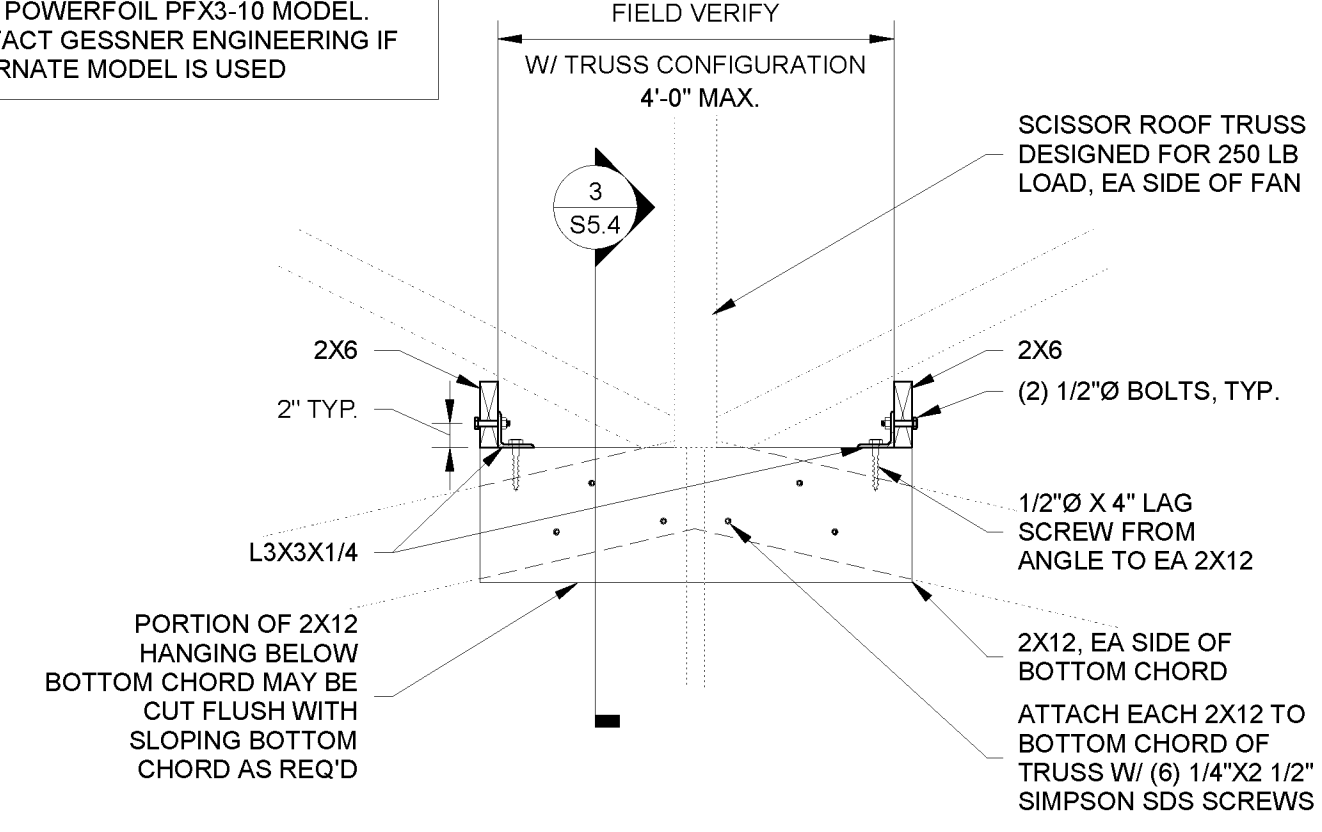
2 PARTITION WALL TO ROOF TRUSS N.T.S.

NOTE: DETAIL SHOWN IS FOR BIG ASS FANS POWERFOIL PF3-10 MODEL. CONTACT GESSNER ENGINEERING IF ALTERNATE MODEL IS USED

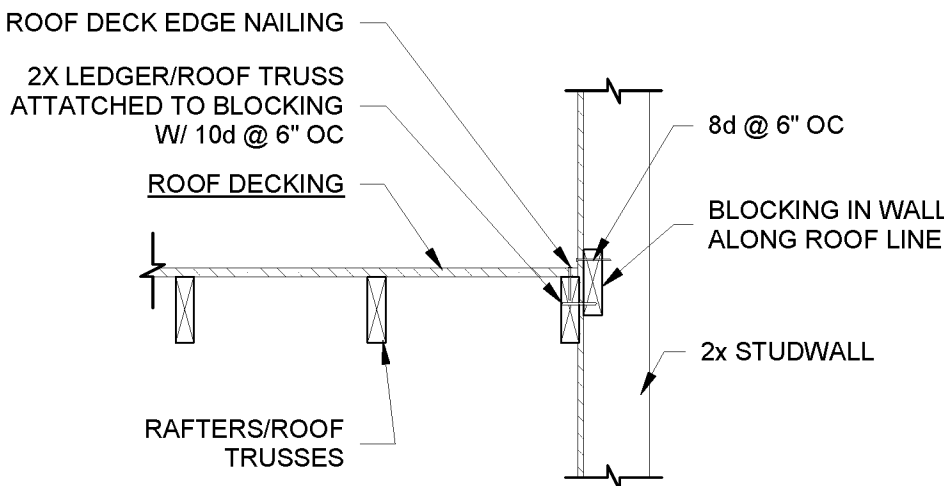


3 TRUSS SECTION AT BIG ASS FAN N.T.S.

NOTE: DETAIL SHOWN IS FOR BIG ASS FANS POWERFOIL PF3-10 MODEL. CONTACT GESSNER ENGINEERING IF ALTERNATE MODEL IS USED

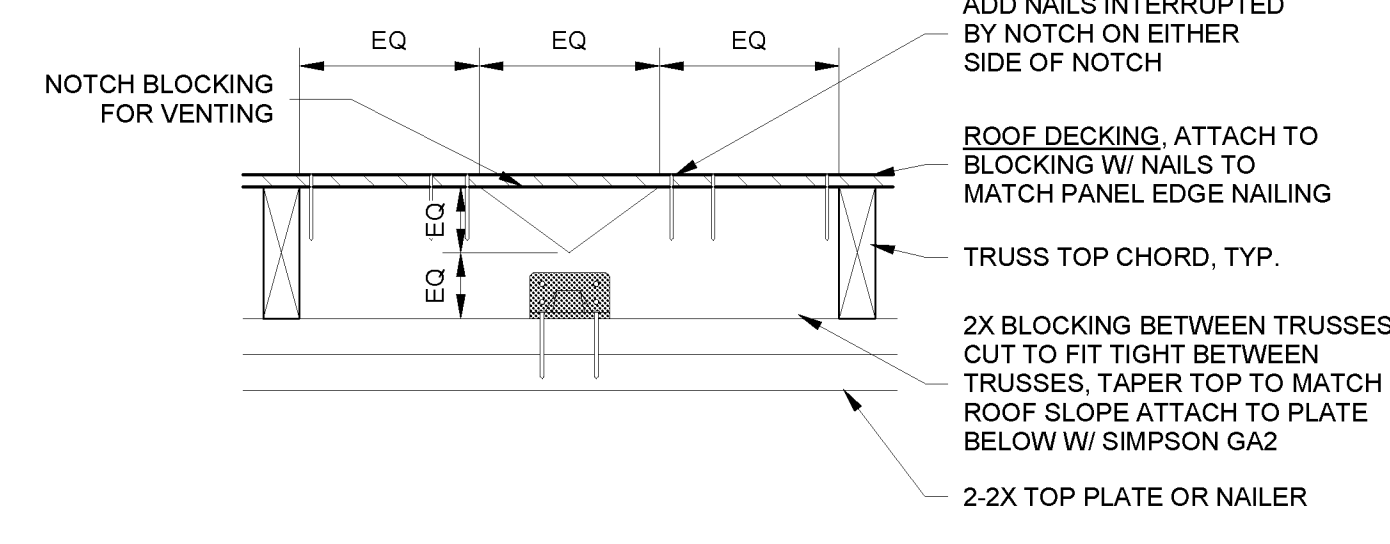


4 TRUSS ELEVATION AT BIG ASS FAN N.T.S.

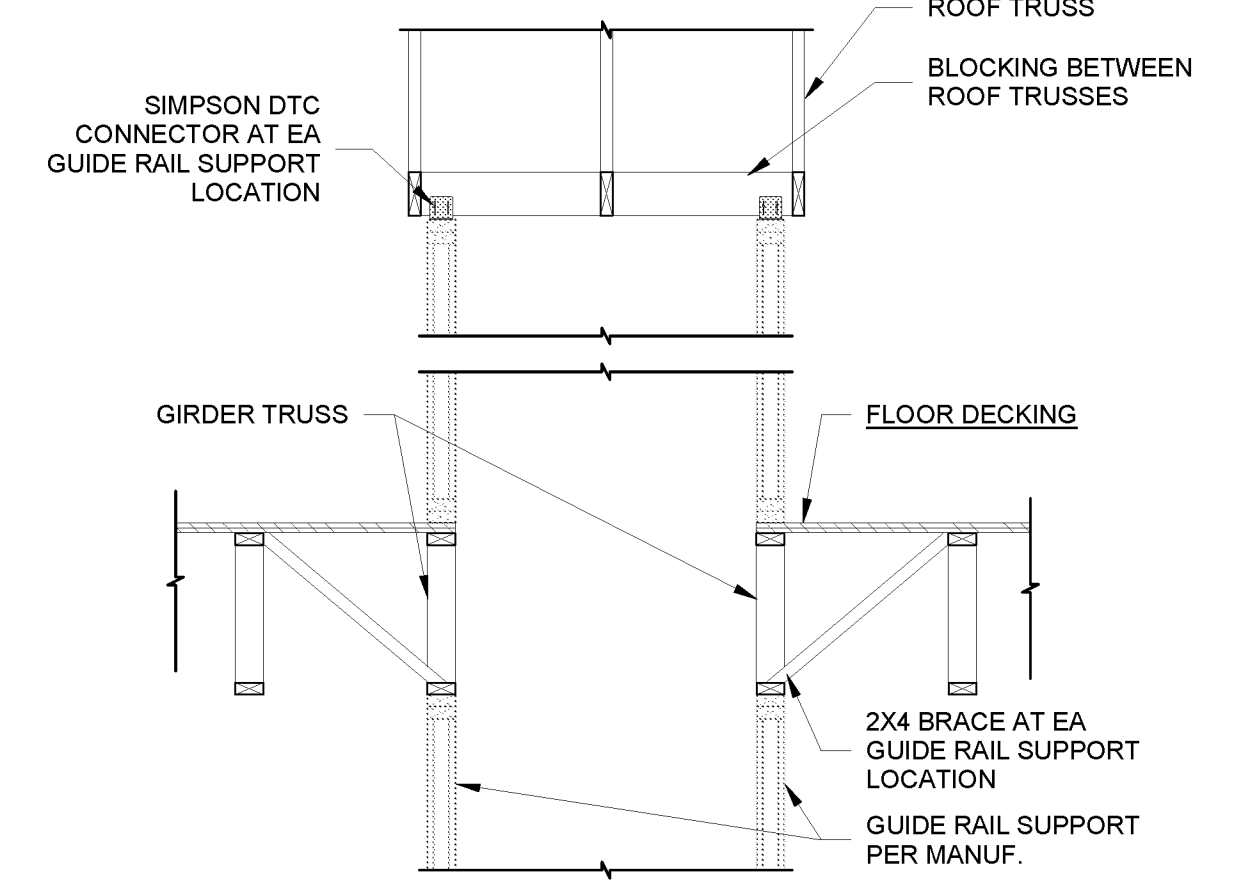


5 TYPICAL ROOF PARALLEL TO WALL N.T.S.

NOTE: PROVIDE SOLID BLOCKING I.O. VENTED BLOCKING IF ALTERNATE 6 SPRAY FOAM INSULATION IS ACCEPTED, REF. ARCH. FOR INFORMATION REGARDING PROJECT ALTERNATES.

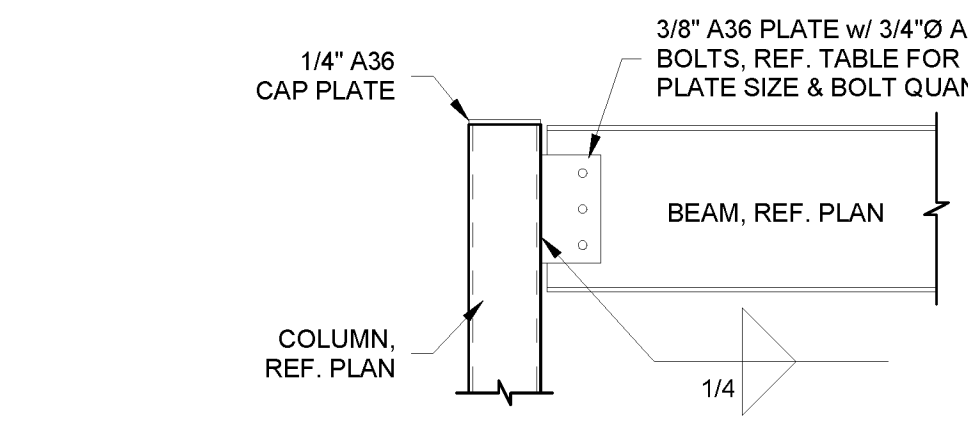


6 VENTILATED BLOCKING N.T.S.



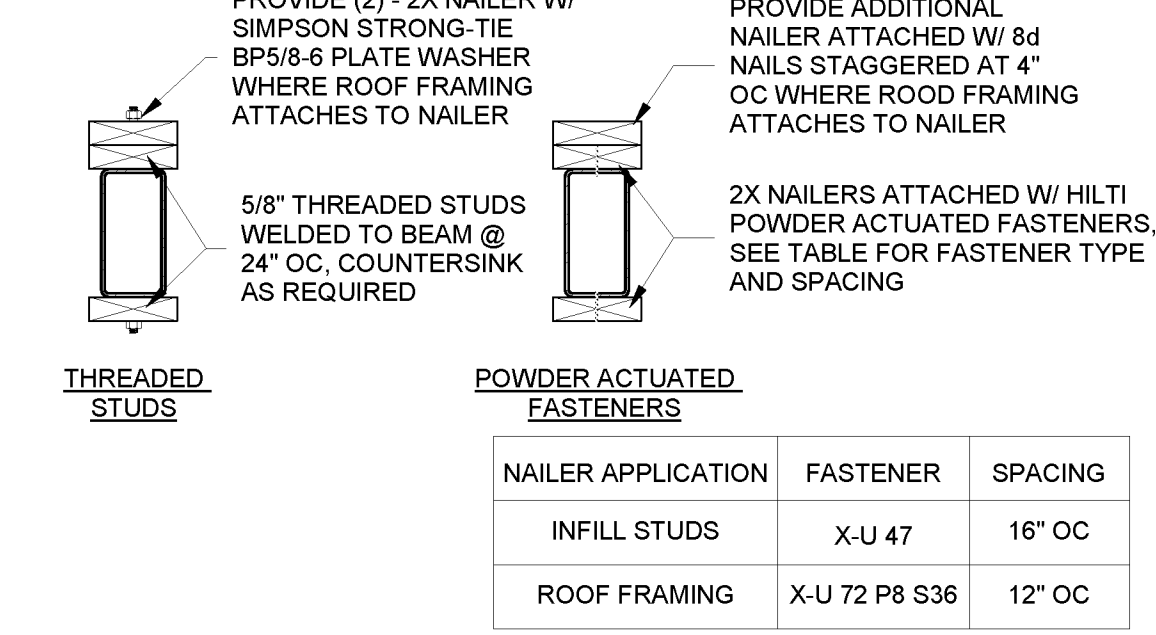
7 2ND FLOOR OPENING AT DUMBWAITER N.T.S.

BEAM SIZE	PLATE SIZE	BOLTS
W12x	6" x 4 1/2"	2
W21x	18" x 4 1/2"	6

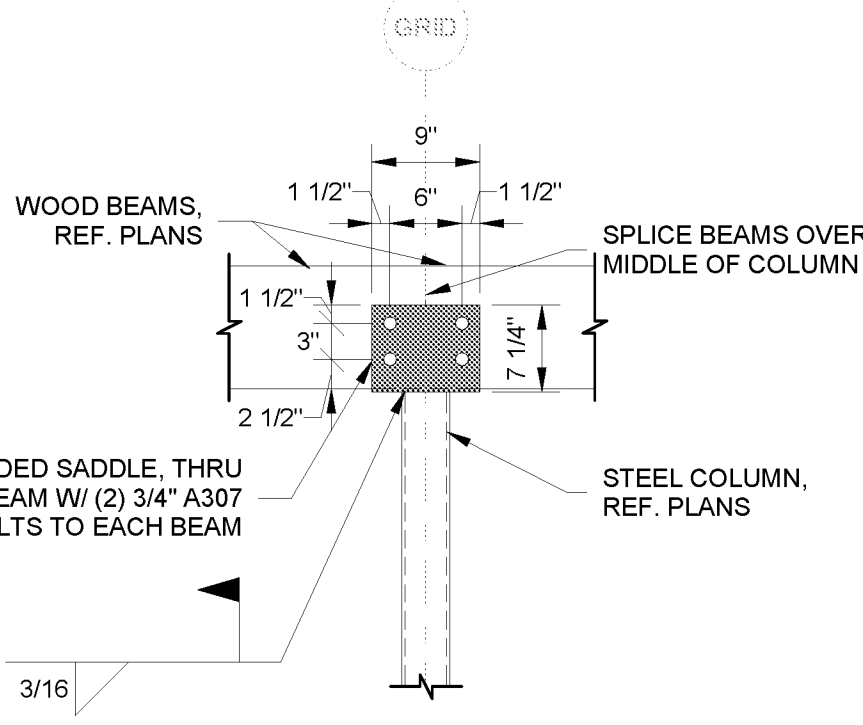


8 SHEAR CONNECTION DETAIL N.T.S.

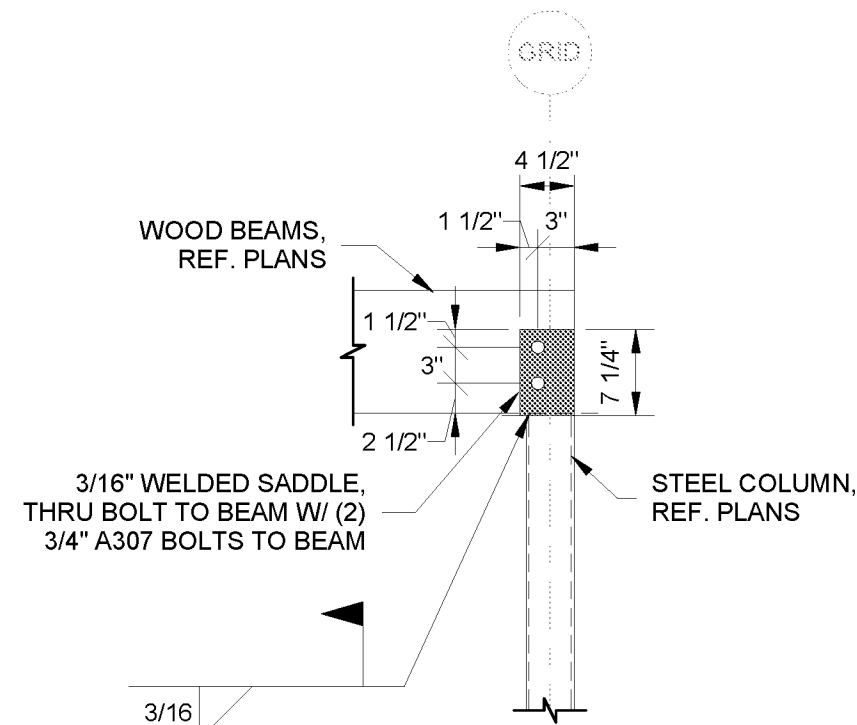
NOTE: SINGLE NAILER MAY BE USED WHERE NOTED ON PLAN



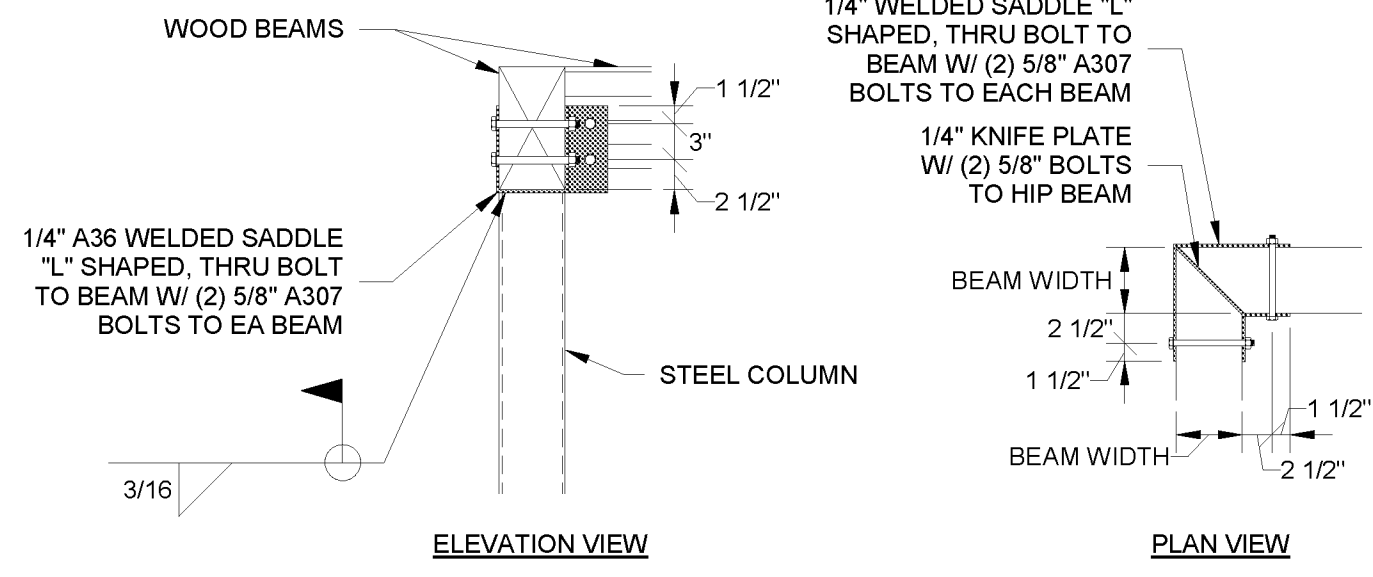
9 TYPICAL NAILER TO STEEL BEAM CONNECTION N.T.S.



10 INTERSECTING BEAMS TO STEEL COLUMN - TOP OF COLUMN N.T.S.

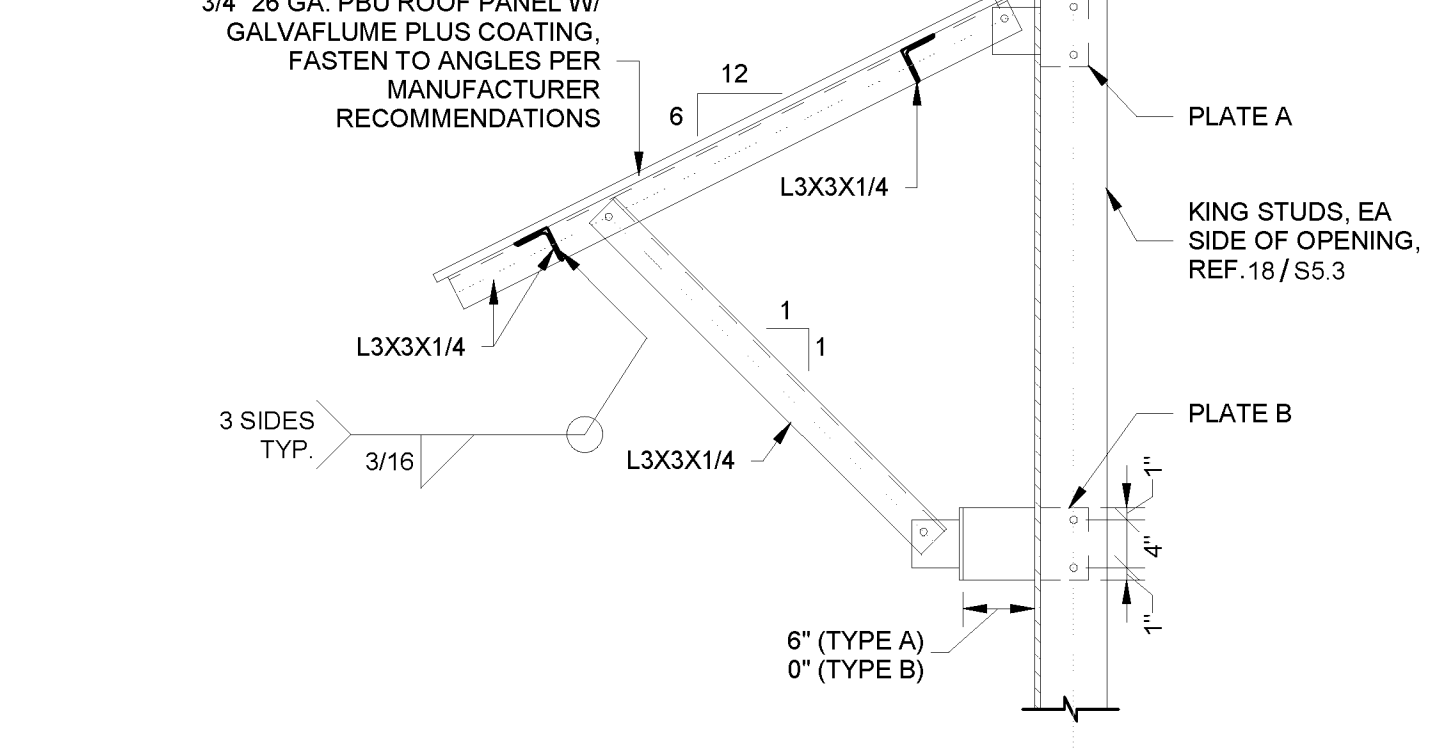


11 END BEAM TO STEEL COLUMN - TOP OF COLUMN N.T.S.

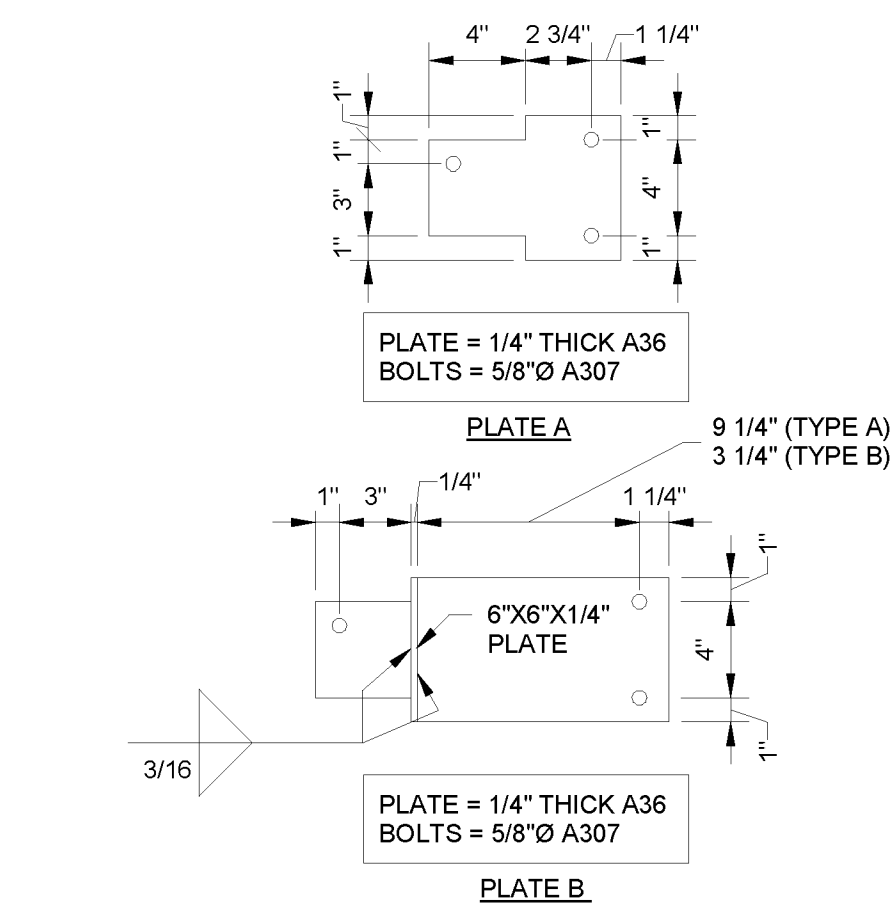


12 COLUMN CONNECTION AT CABANA N.T.S.

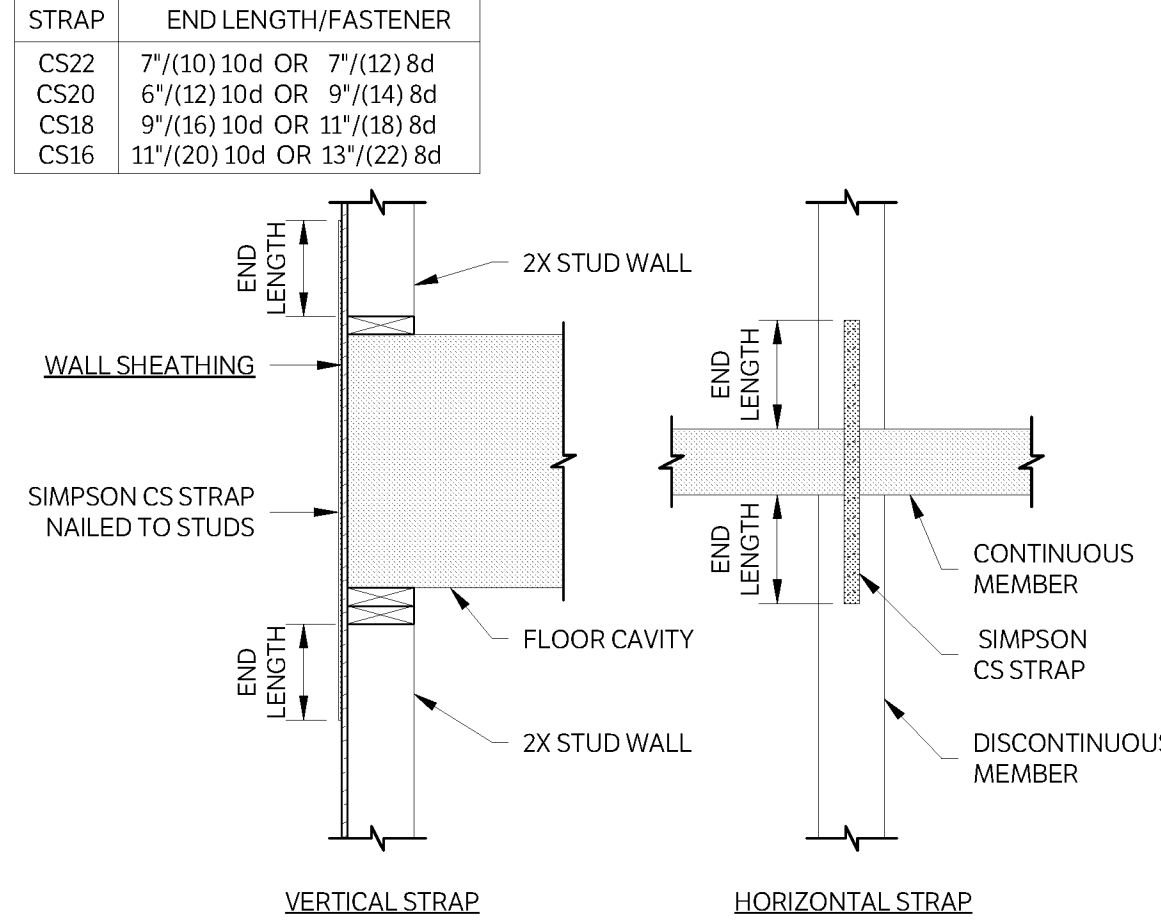
NOTE: CANOPY DIMENSIONS VARY AROUND BUILDING, REF. ARCH. PLANS FOR EXACT DIMENSIONS



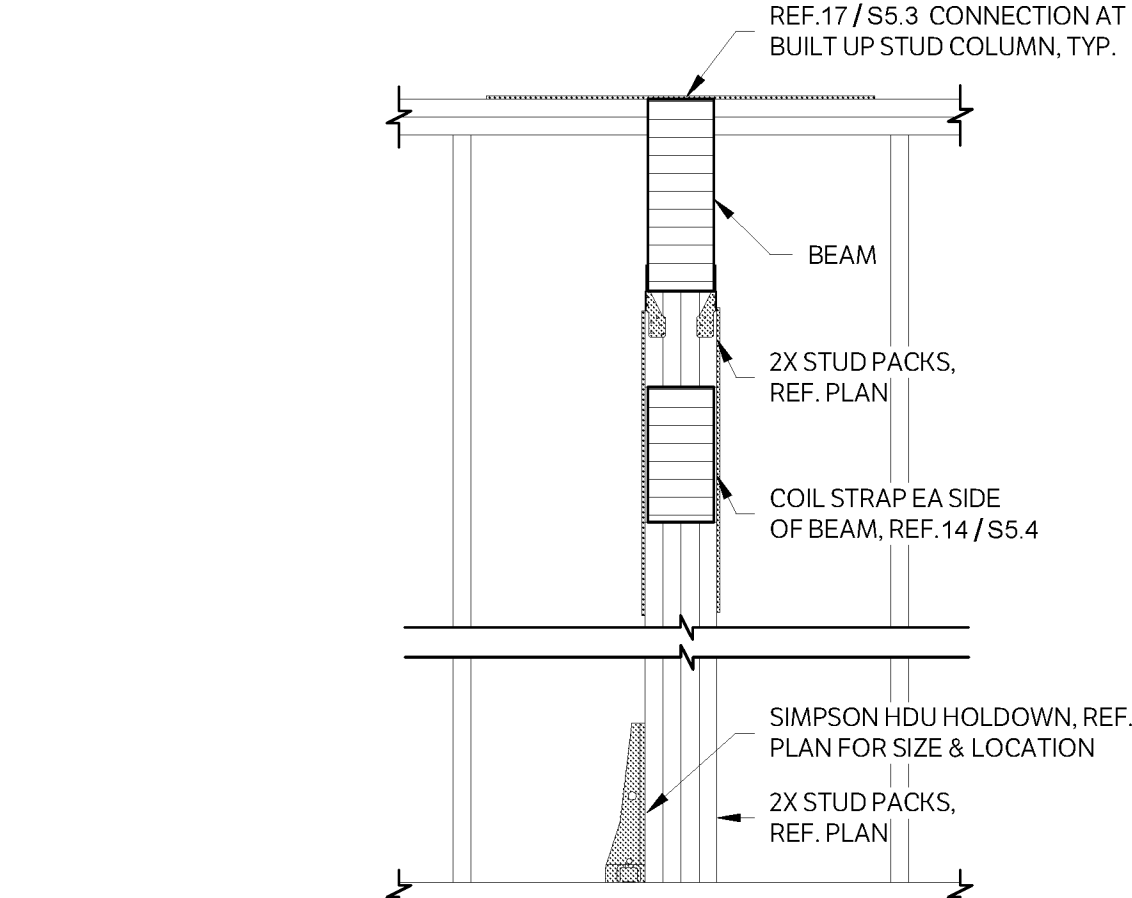
13 CANOPY N.T.S.



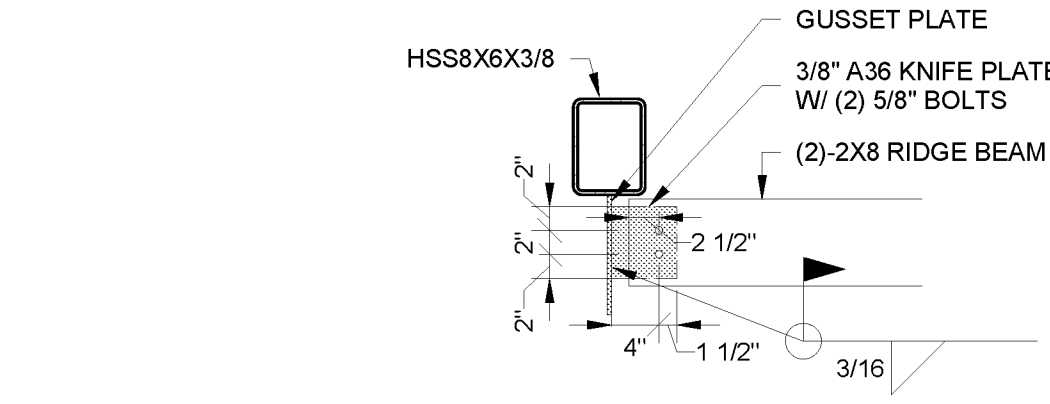
14 COIL STRAP DETAIL N.T.S.



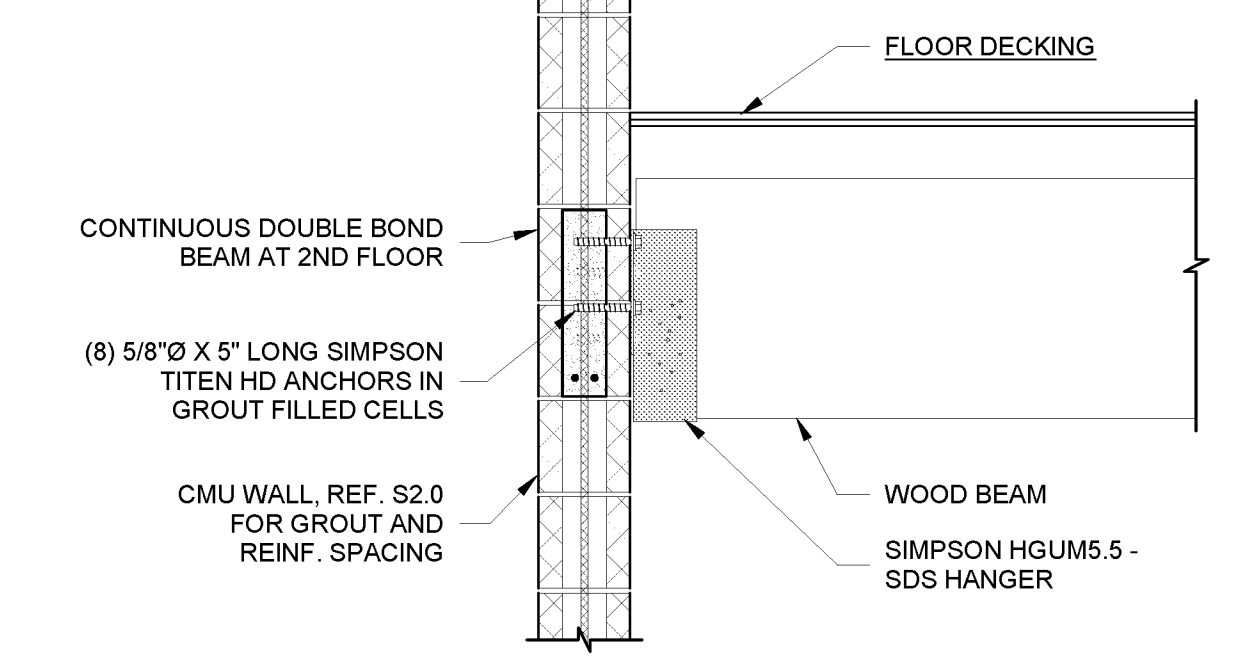
14 COIL STRAP DETAIL N.T.S.



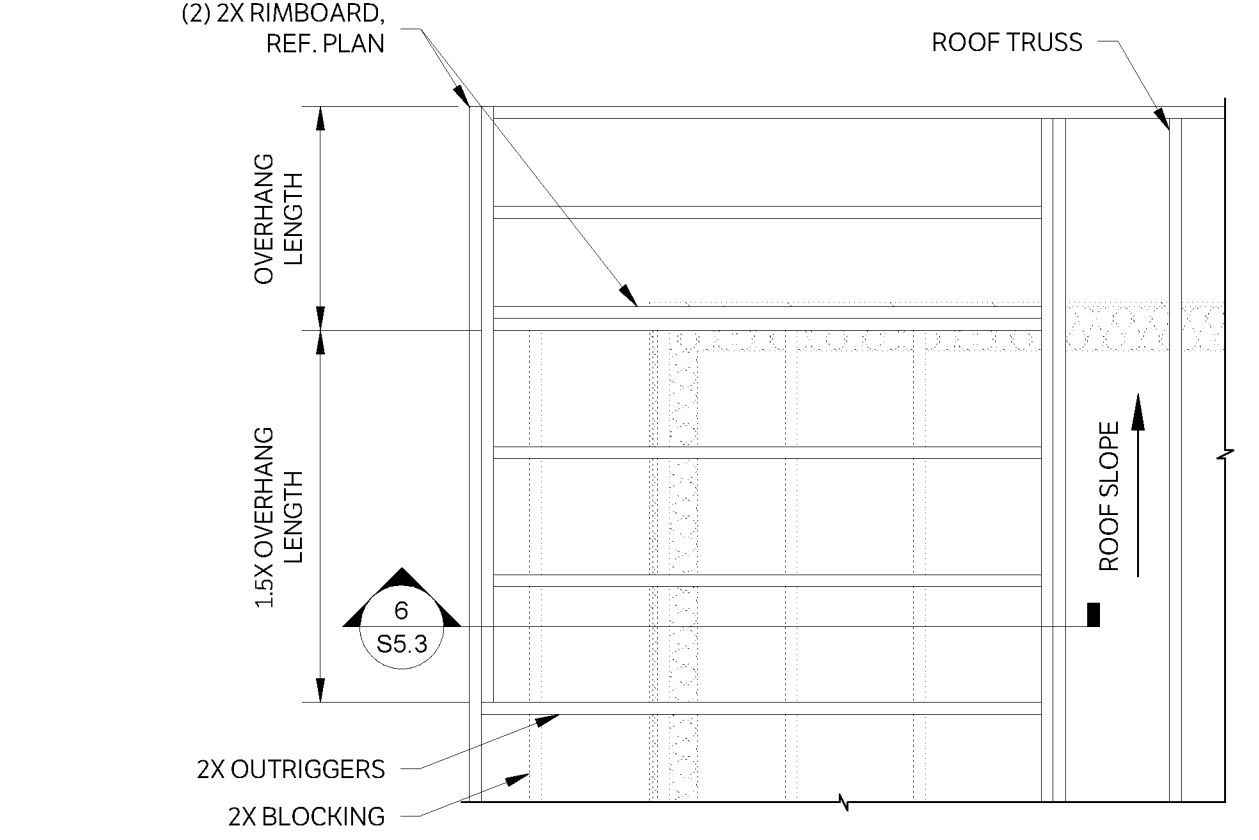
15 UPLIFT CONNECTION AT BEAM N.T.S.



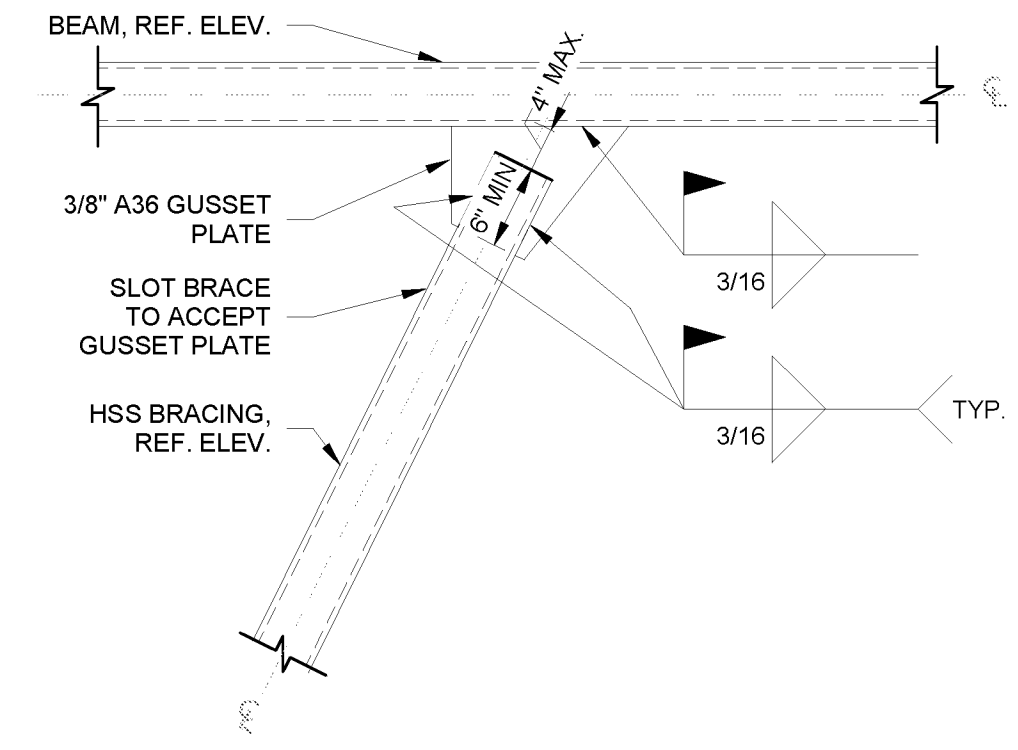
16 RIDGE BEAM TO TOWER FRAMING CONNECTION N.T.S.



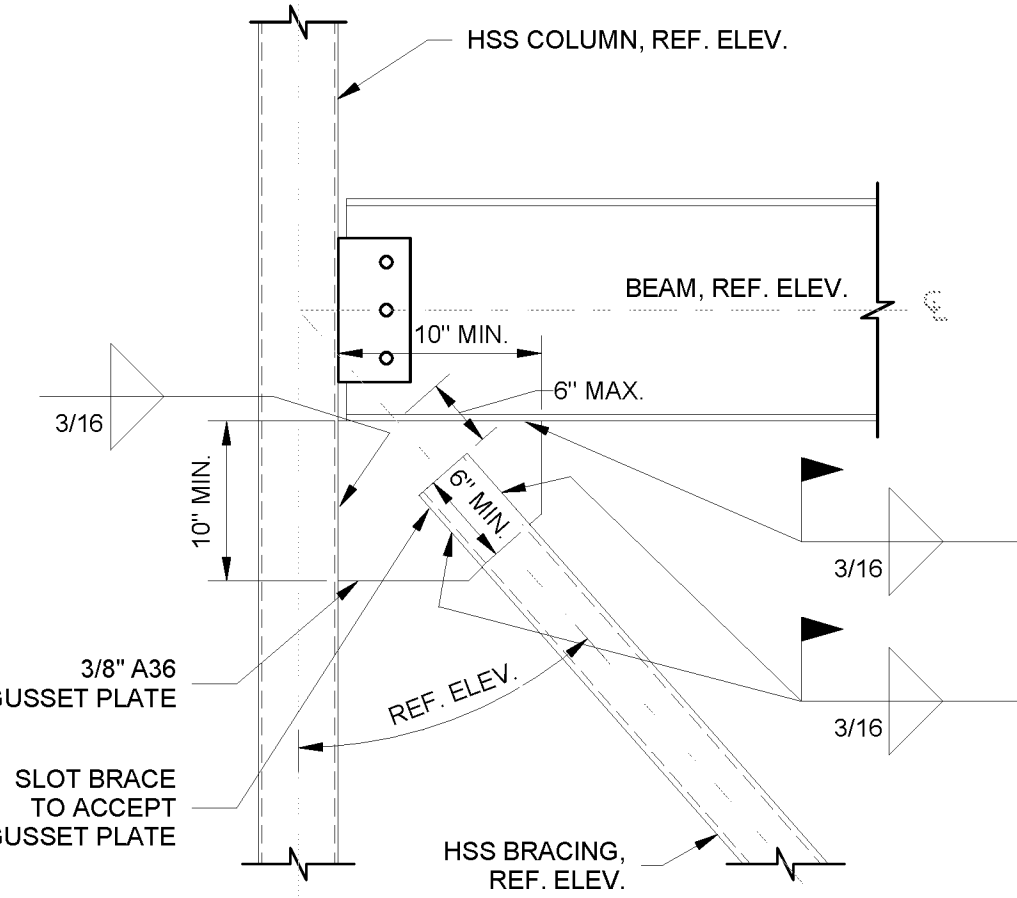
17 BEAM TO CMU CONNECTION N.T.S.



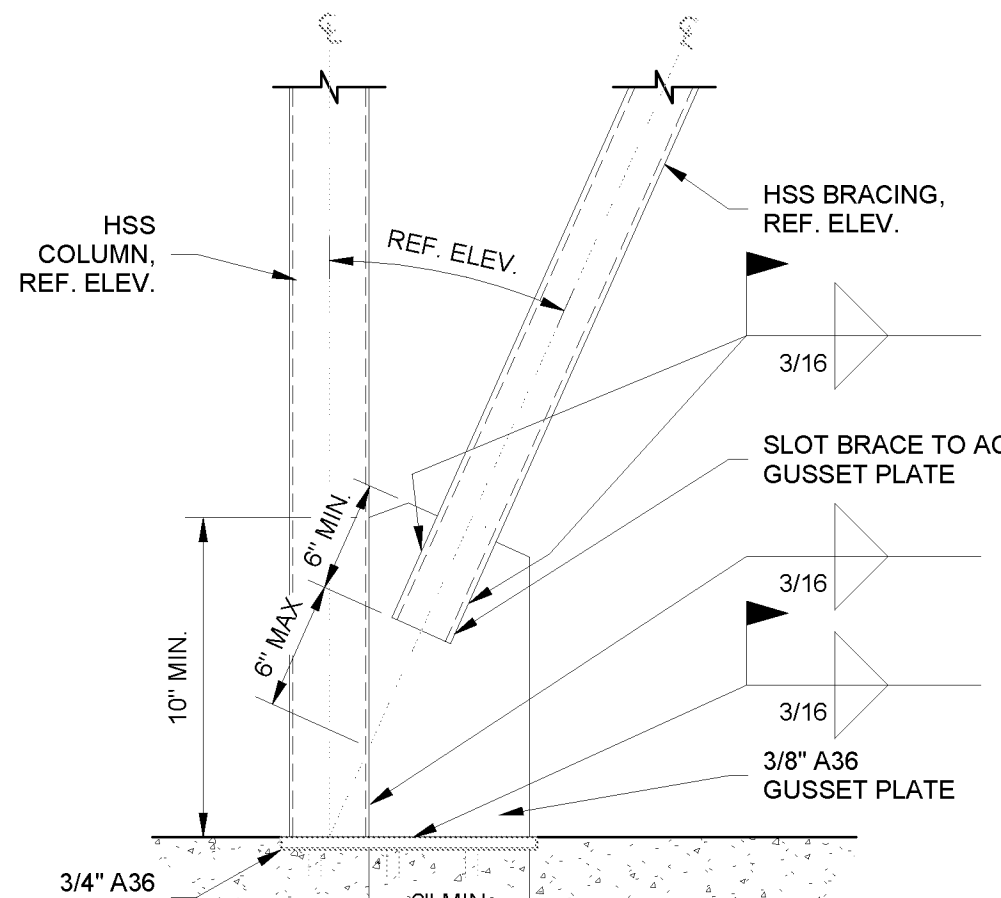
18 CORNER OVERHANG DETAIL N.T.S.



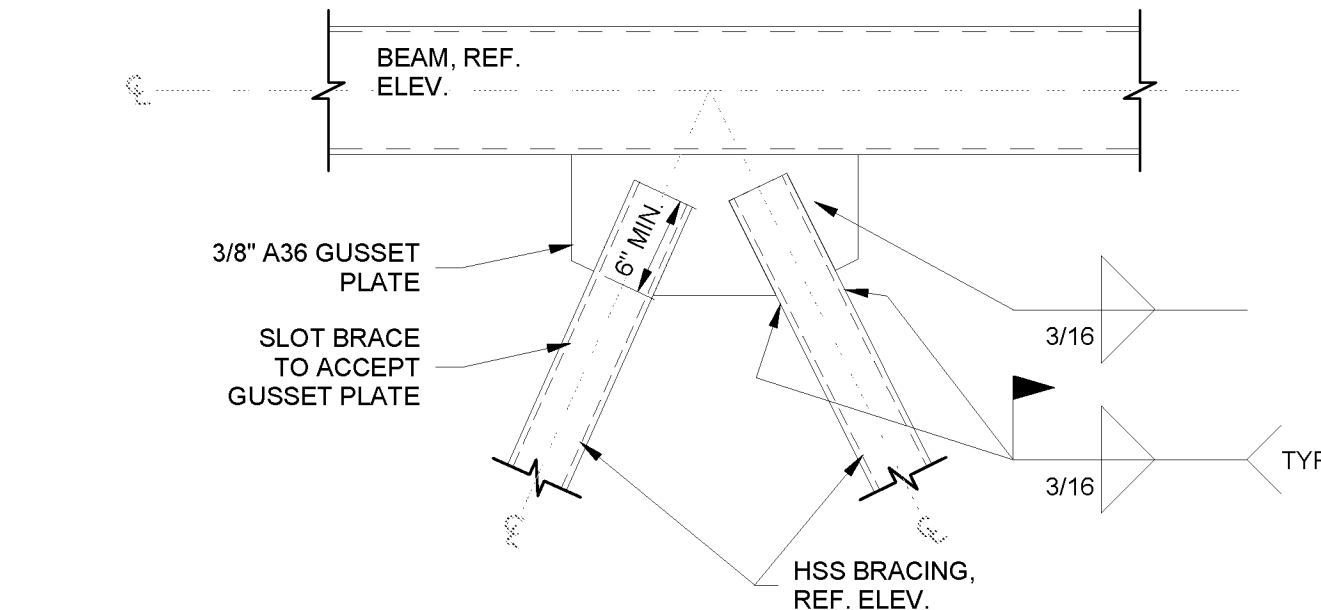
19 BRACE TO TUBE BEAM N.T.S.



20 BRACE TO BEAM AND COLUMN N.T.S.

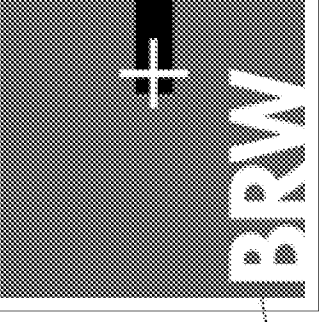


21 BRACE TO COLUMN AND EMBED PLATE N.T.S.



22 CHEVRON BRACING - GUSSET TO BEAM N.T.S.

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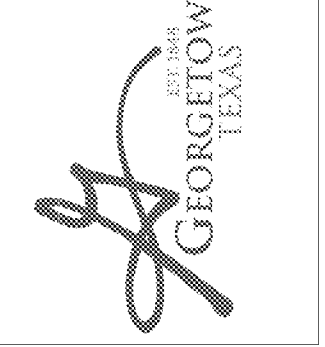


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18PE-7451, 18PL-37-103595



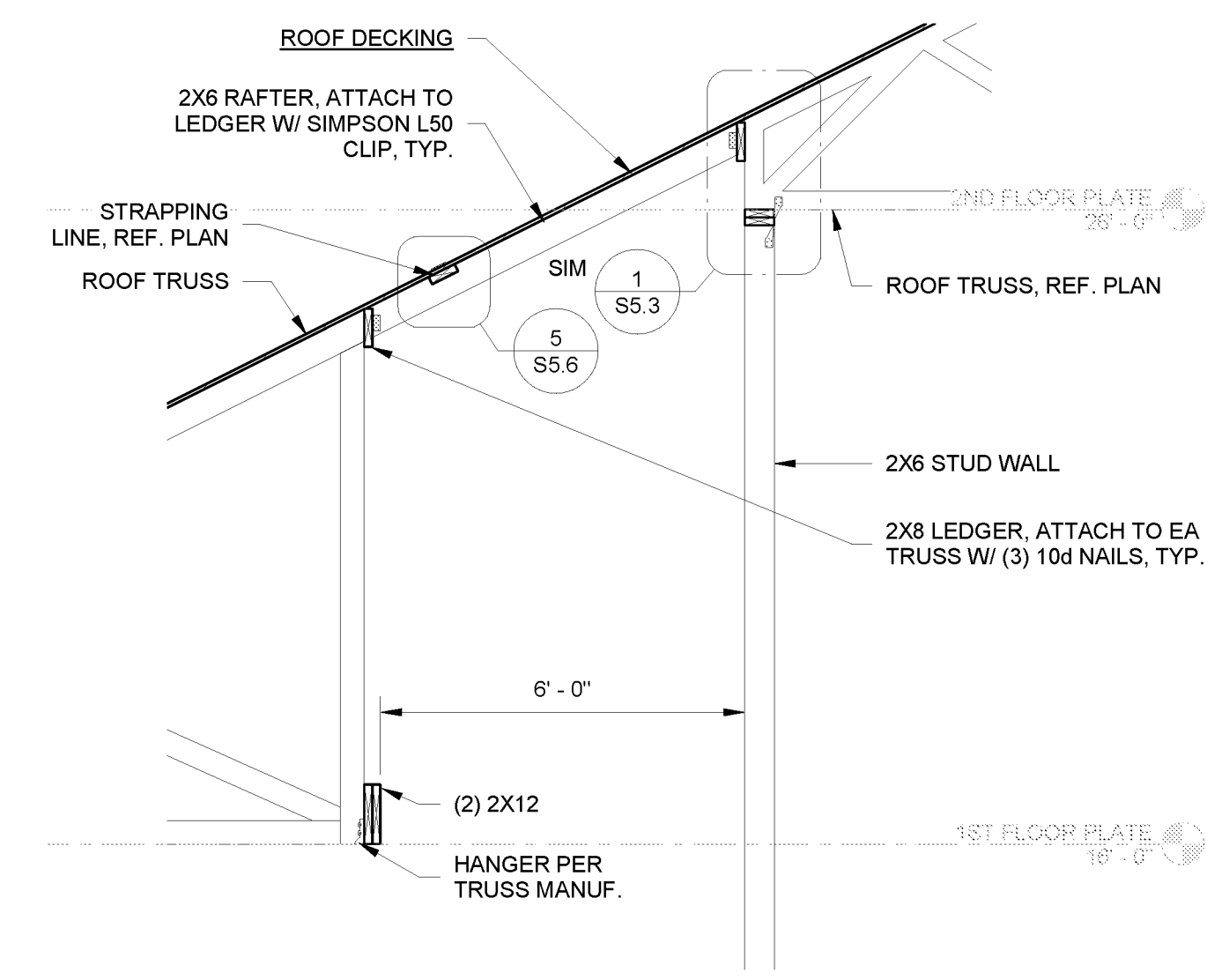
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DATE 11.16.18
DRAWN BY EH
CHECKED BY DAV
PROJECT NO. 217079.00

WILLIAMSON CO. ESC 8 / CITY OF GEORGETOWN
GEORGETOWN FIRE STATION No. 6
6700 R.M. 2338
GEORGETOWN, TX 78626

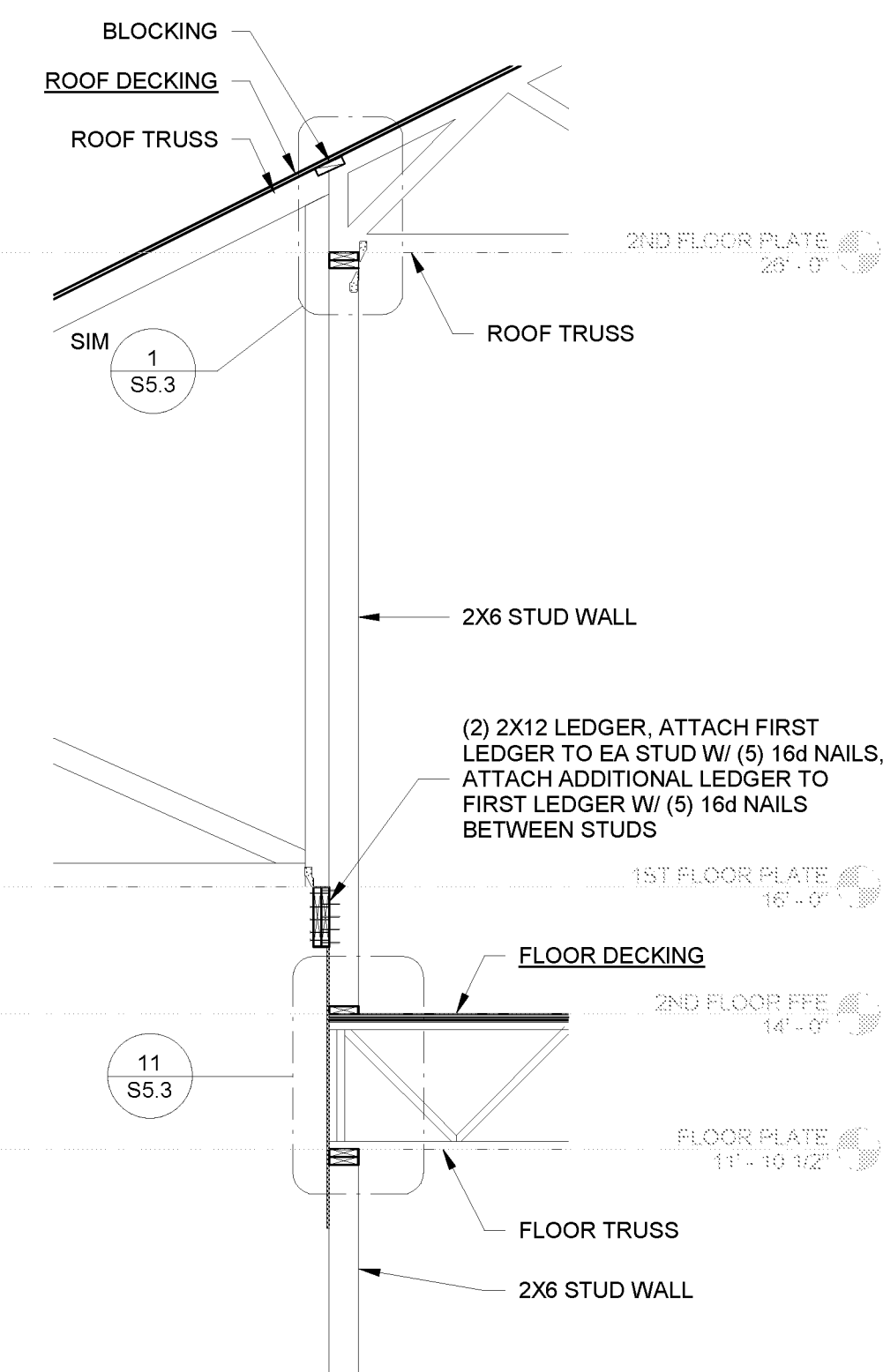


NO.	DESCRIPTION	DATE

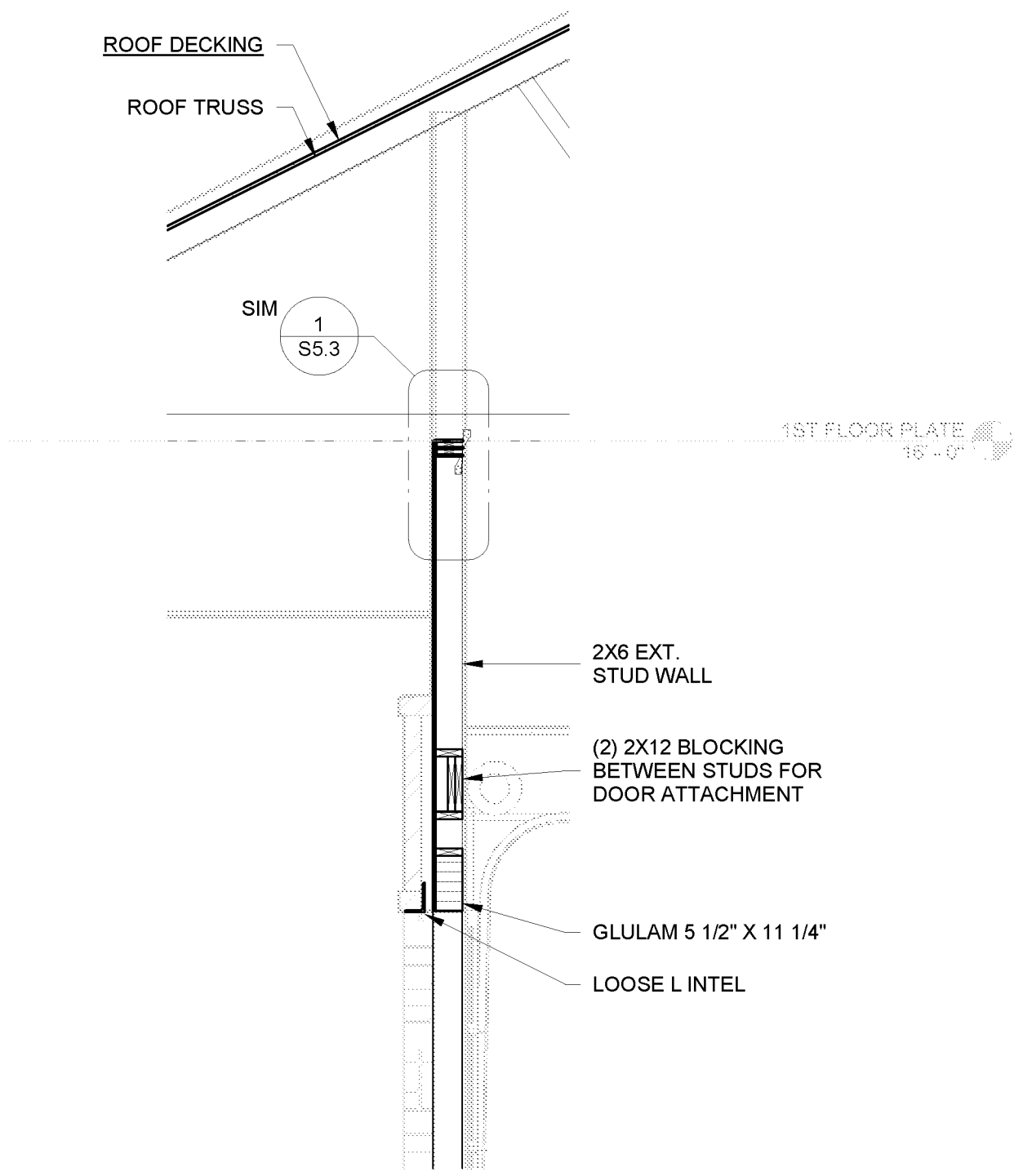
S5.4



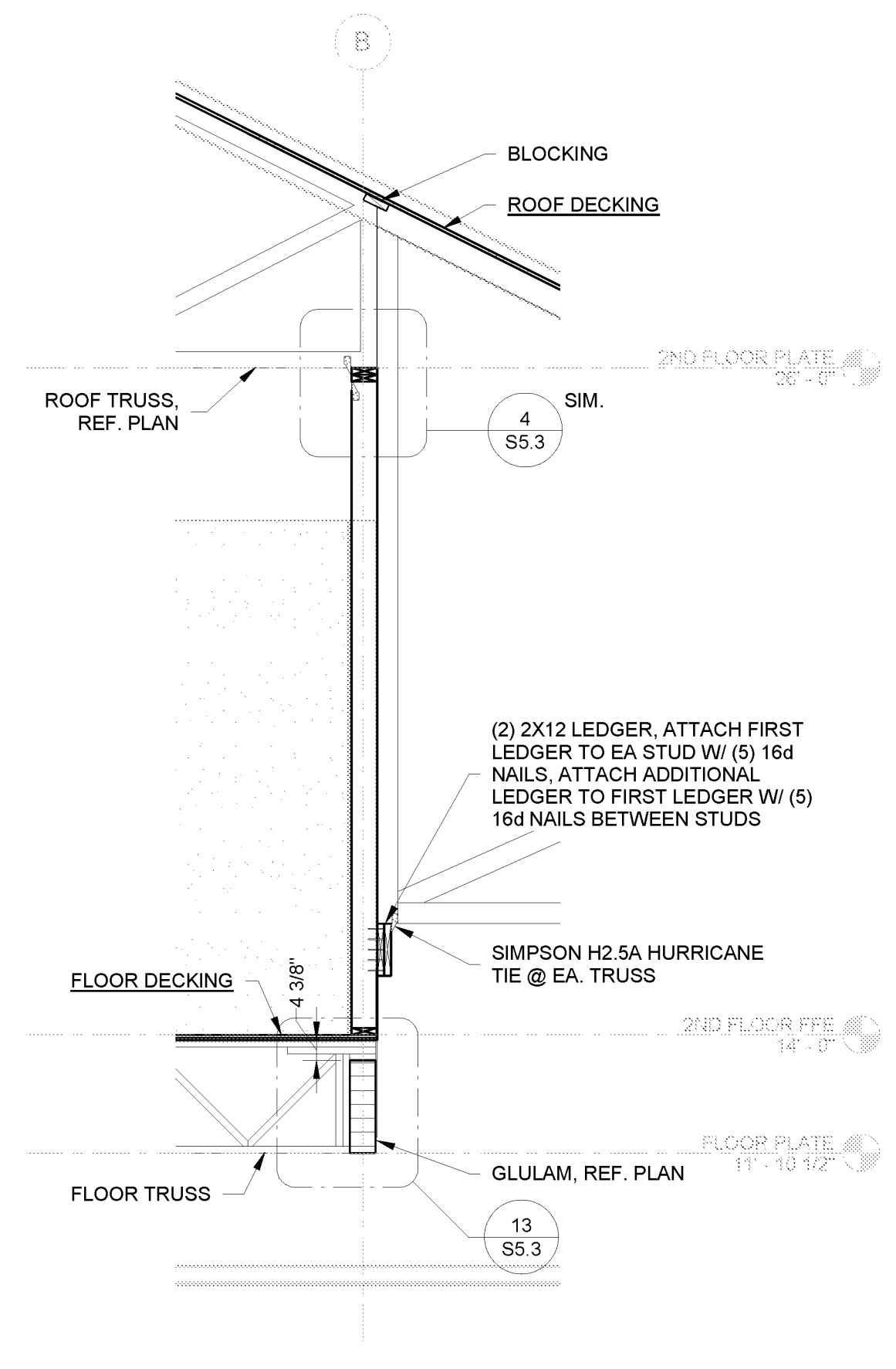
1 SECTION AT MECH. OPENING
3/8" = 1'-0"



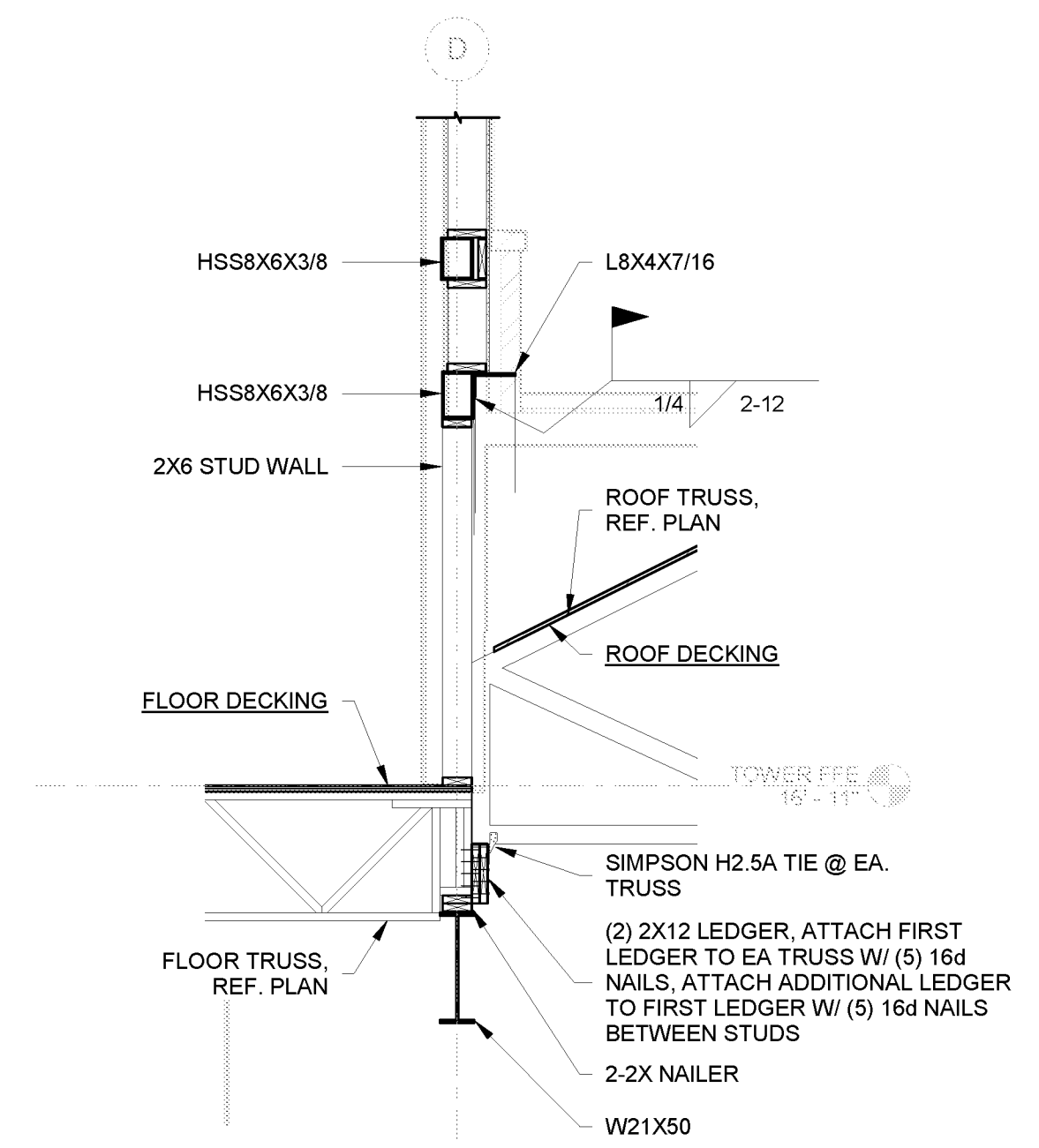
2 SECTION AT 2ND FLOOR
3/8" = 1'-0"



3 WORKOUT ROOM OVERHANG DOOR SECTION
3/8" = 1'-0"



4 SECTION AT 2ND FLOOR W/ BEAM
3/8" = 1'-0"



5 SECTION AT TOWER
3/8" = 1'-0"

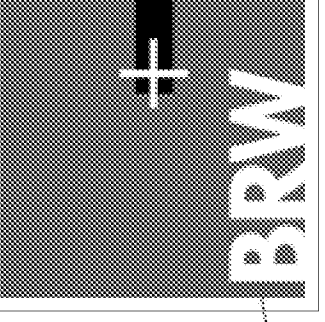
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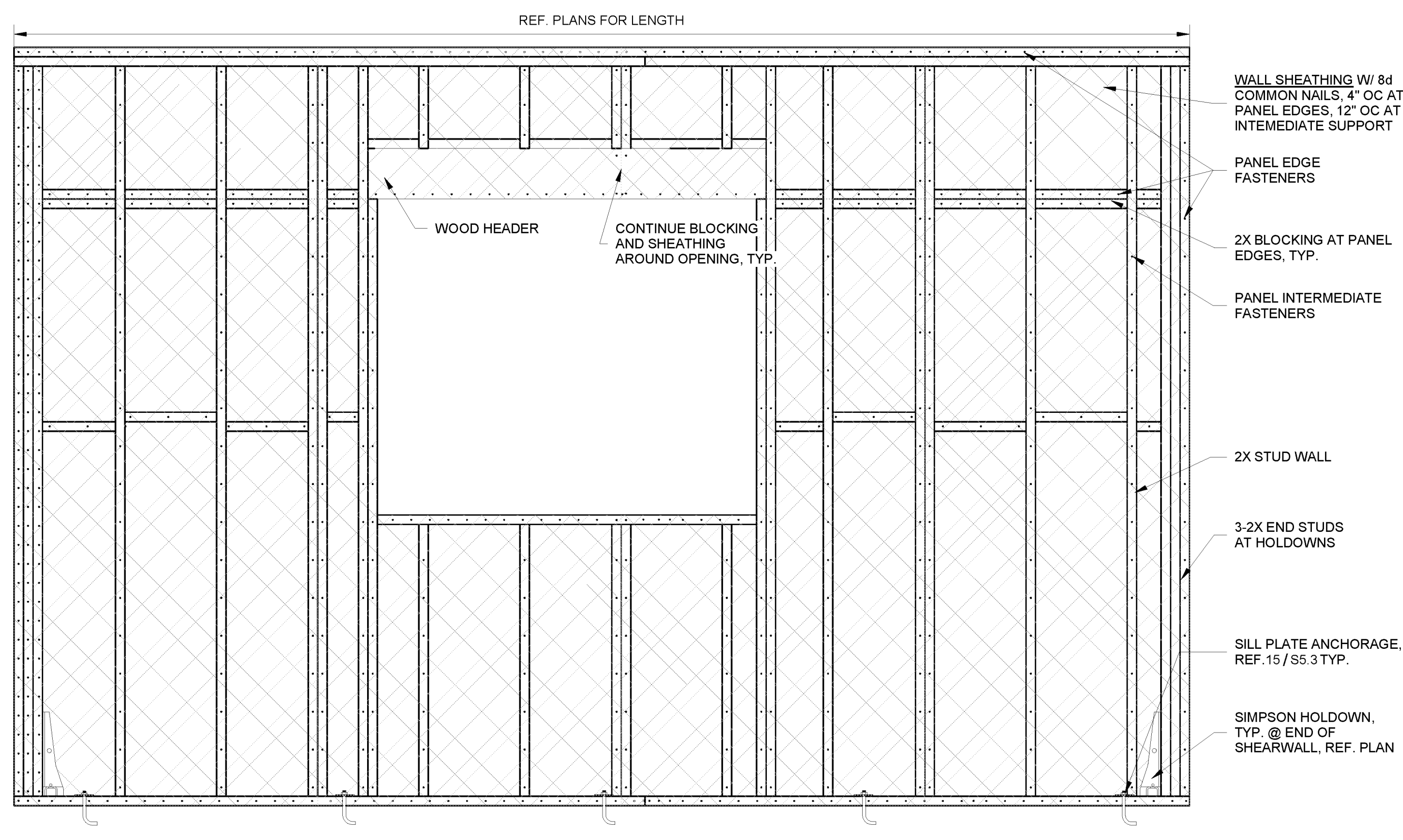
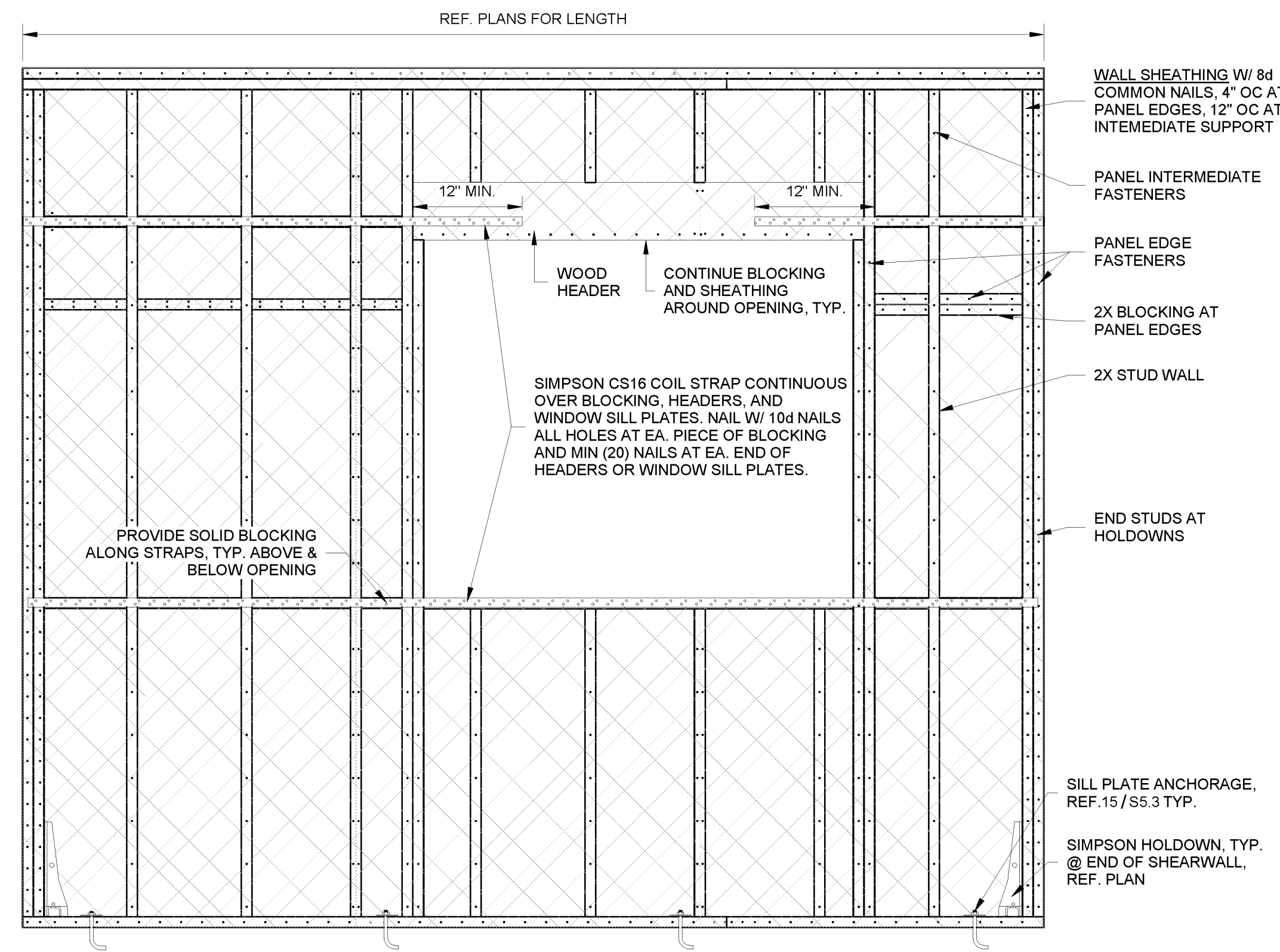
CORPORATE OFFICE
 250 LASHFORD DRIVE
 SUITE 100
 WAXAHACH, TX 75165
 CALL 1-877-GESSNER (437-7637)
 WWW.GESSNERENGINEERING.COM
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 COLLEGE PARK, TEXAS 77424
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S5.5

- NOTES:
 1. ALL PANEL EDGES SHALL OCCUR OVER FRAMING MEMBERS OR BLOCKING
 2. REFERENCE DETAILS FOR CONNECTIONS OF FRAMING TO SHEAR WALLS AND SPECIAL CONDITIONS.

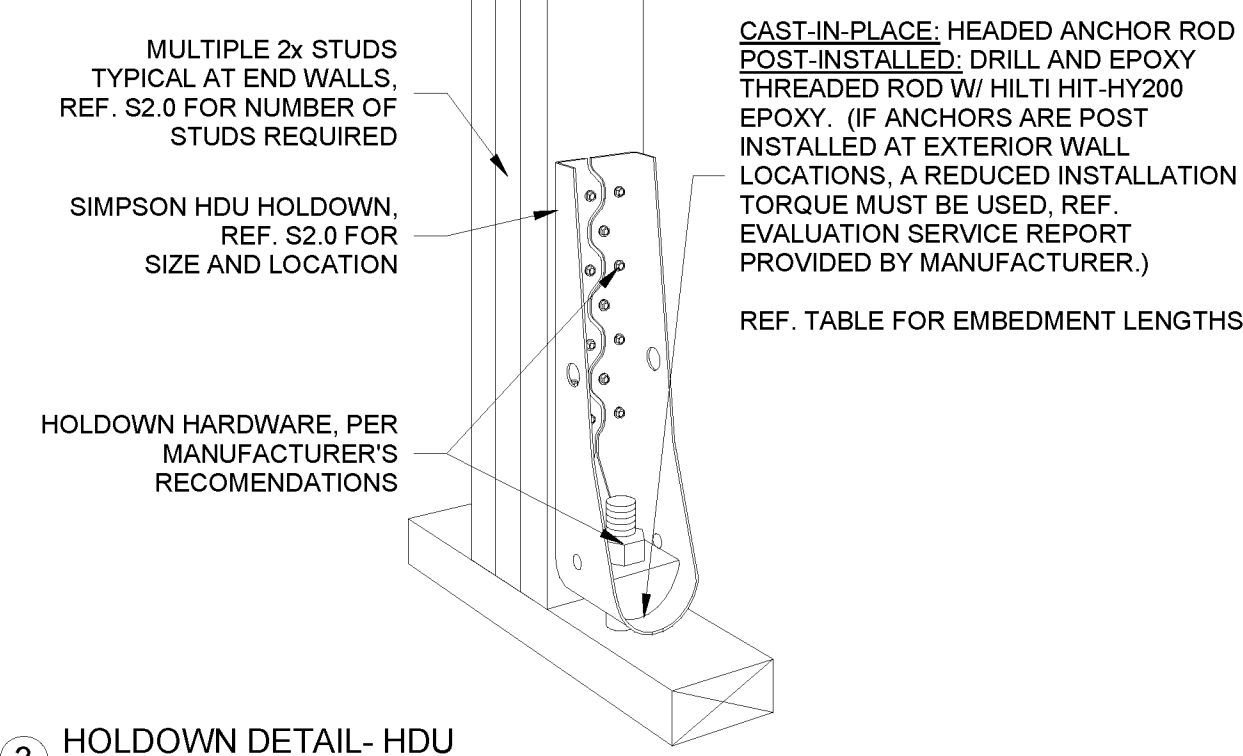


1 FORCE TRANSFER SHEAR WALL
N.T.S.

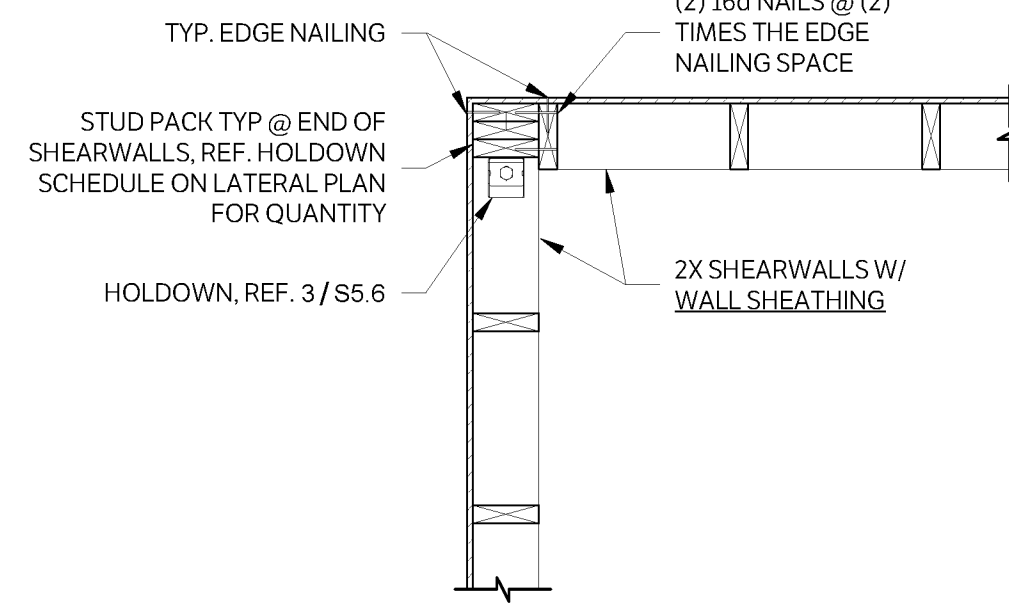
2 PERFORATED SHEAR WALL
N.T.S.

HOLDOWN	ANCHOR DIAMETER	CAST-IN-PLACE EMBEDMENT	POST-INSTALLED EMBEDMENT
HDU2-SDS2.5	5/8"	6"	10"
HDU5-SDS2.5	5/8"	8"	12"

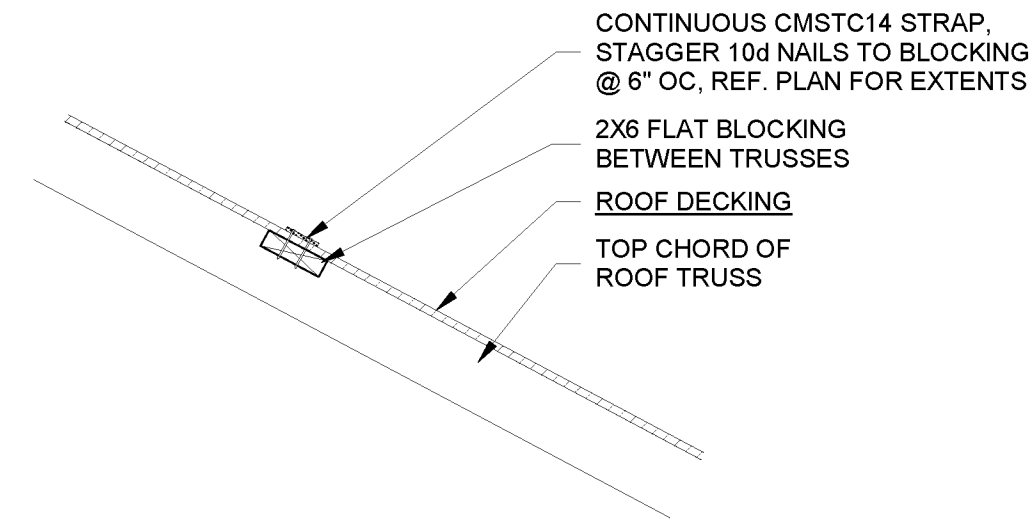
PANEL EDGE FASTENERS	CORNER STITCH FASTENERS
4"	9"



3 HOLDOWN DETAIL- HDU
N.T.S.

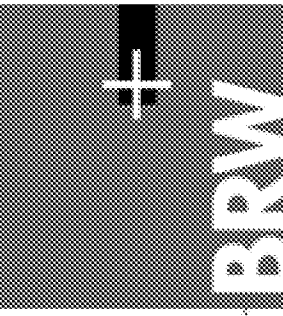


4 SHEARWALL AT CORNER
N.T.S.

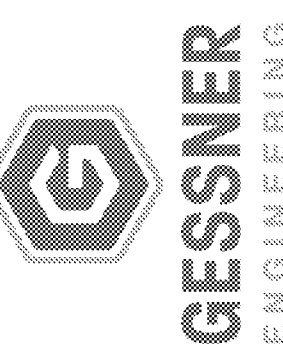


5 STRAPPING LINE AT ROOF
N.T.S.

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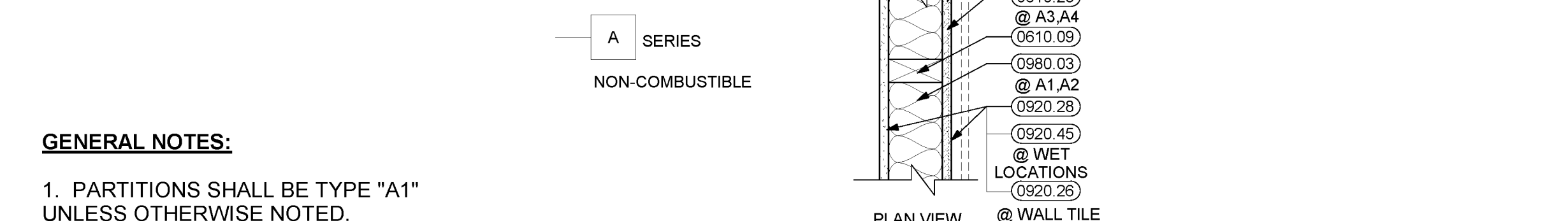
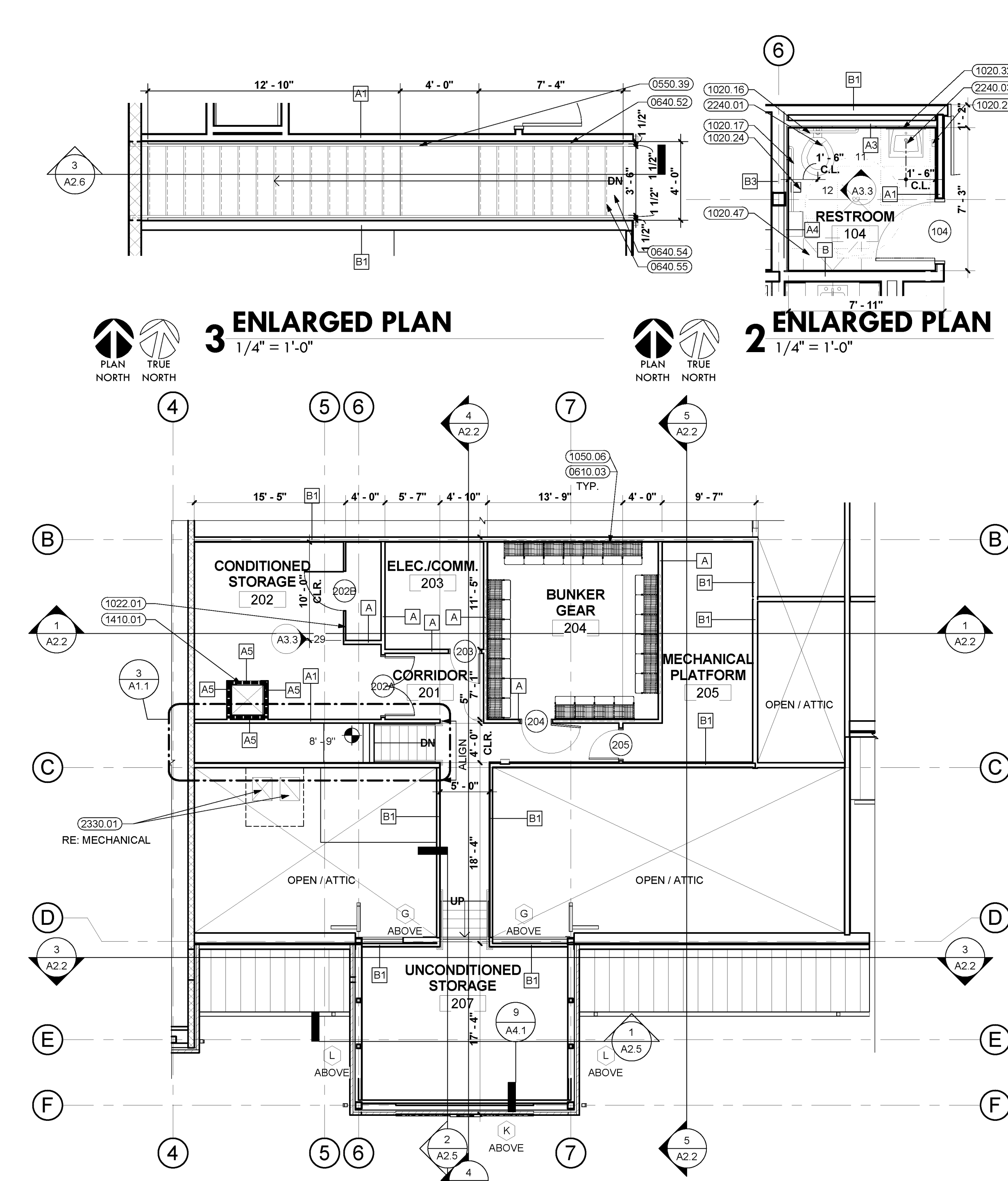


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 GEORGETOWN TEXAS
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 GEORGETOWN, TX 78626

NO.	DESCRIPTION	DATE

S5.6



GENERAL NOTES:

- PARTITIONS SHALL BE TYPE "A1" UNLESS OTHERWISE NOTED.
- TYPICAL FLOOR PLAN DIMENSIONS OF PARTITIONS ARE TO THE FINISH FACE OF PARTITIONS.
- WHERE A CLEAR DIMENSION OR OPENING IS REQUIRED OR NOTED, MEASURE DIMENSION TO FACE OF PARTITION FINISH.
- PROVIDE STUD BRACING AT 4'-0" O.C. MAX. BRACING SHALL ATTACH TO STUDS 1'-0" MAX. ABOVE CEILING.
- ALL ELEMENTS OF ACOUSTIC RATED PARTITIONS SHALL EXTEND TO ROOF OR FLOOR DECK ABOVE AND ALL JOINTS AND PENETRATIONS OF ACOUSTICALLY RATED PARTITIONS SHALL BE FILLED AND SEALED.
- PENETRATIONS IN RATED PARTITIONS AND CONNECTIONS OF THE PARTITIONS TO OTHER PORTIONS OF THE WORK SHALL BE IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDED DETAILS AND IN COMPLIANCE WITH APPLICABLE TESTING AGENCY REQUIREMENTS.
- INSTALL BLOCKING OR BACKER MATERIAL FOR ATTACHMENT/MOUNTING OF WALL HUNG ITEMS OR EQUIPMENT DESCRIBED IN THE DOCUMENTS.
- PROVIDE CEMENTITIOUS BACKER BOARD AT AREAS THAT ARE SCHEDULED TO RECEIVE CERAMIC TILE FINISH AND AS REQUIRED BY CODE.
- INSTALLATION OF GYPSUM BOARD, BACKER BOARD AND BASE BOARD SHALL CONFORM TO REQUIREMENTS FOR FIRE RATINGS AND ACOUSTICAL RATINGS.
- WHERE PARTITIONS AND/OR FURRING MEET, MAINTAIN A FLUSH FINISH SURFACE UNLESS OTHERWISE NOTED.

PTN TYPE STUD PART WIDTH PART HEIGHT W/ SOUND BATTS NOTES

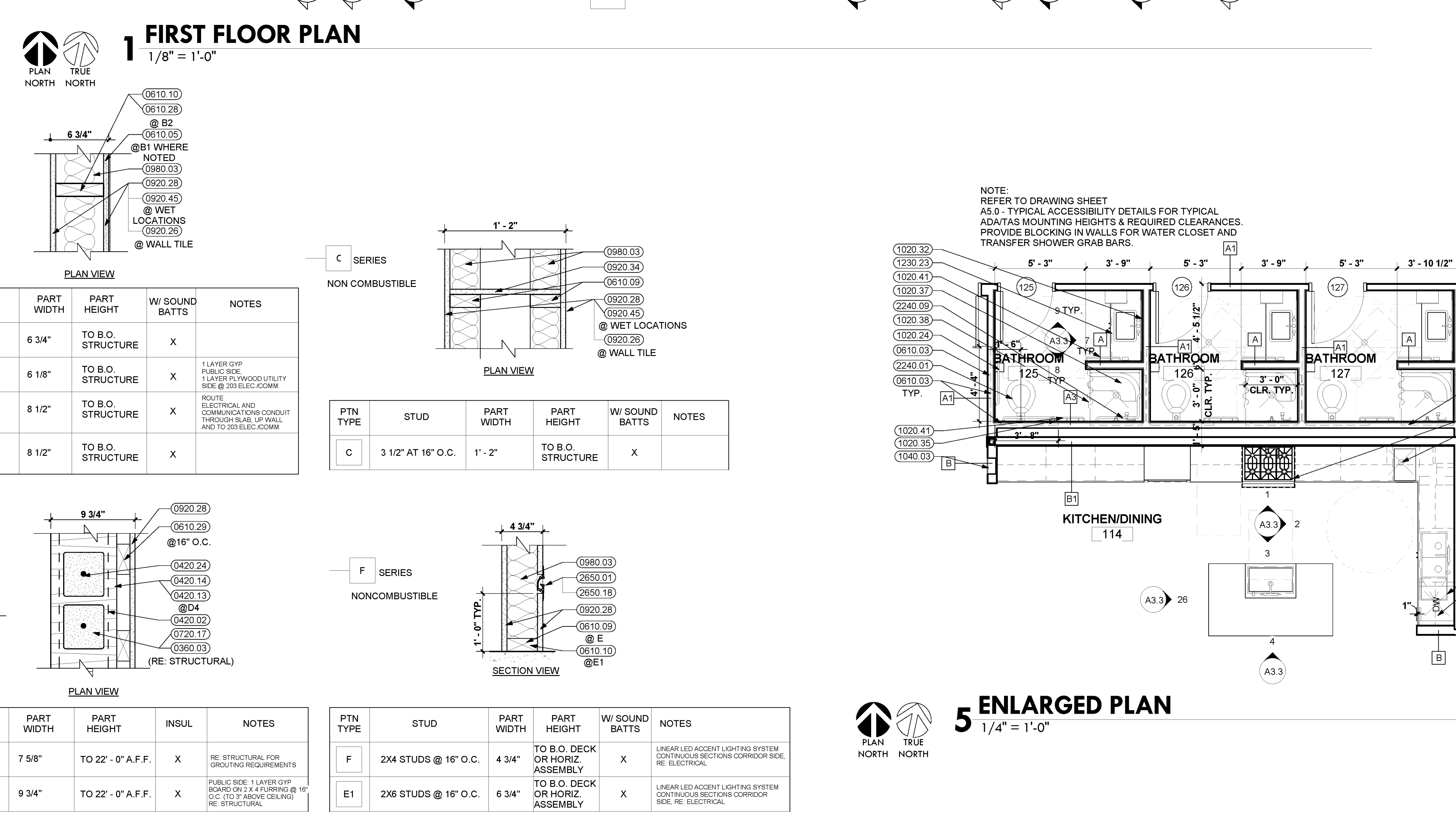
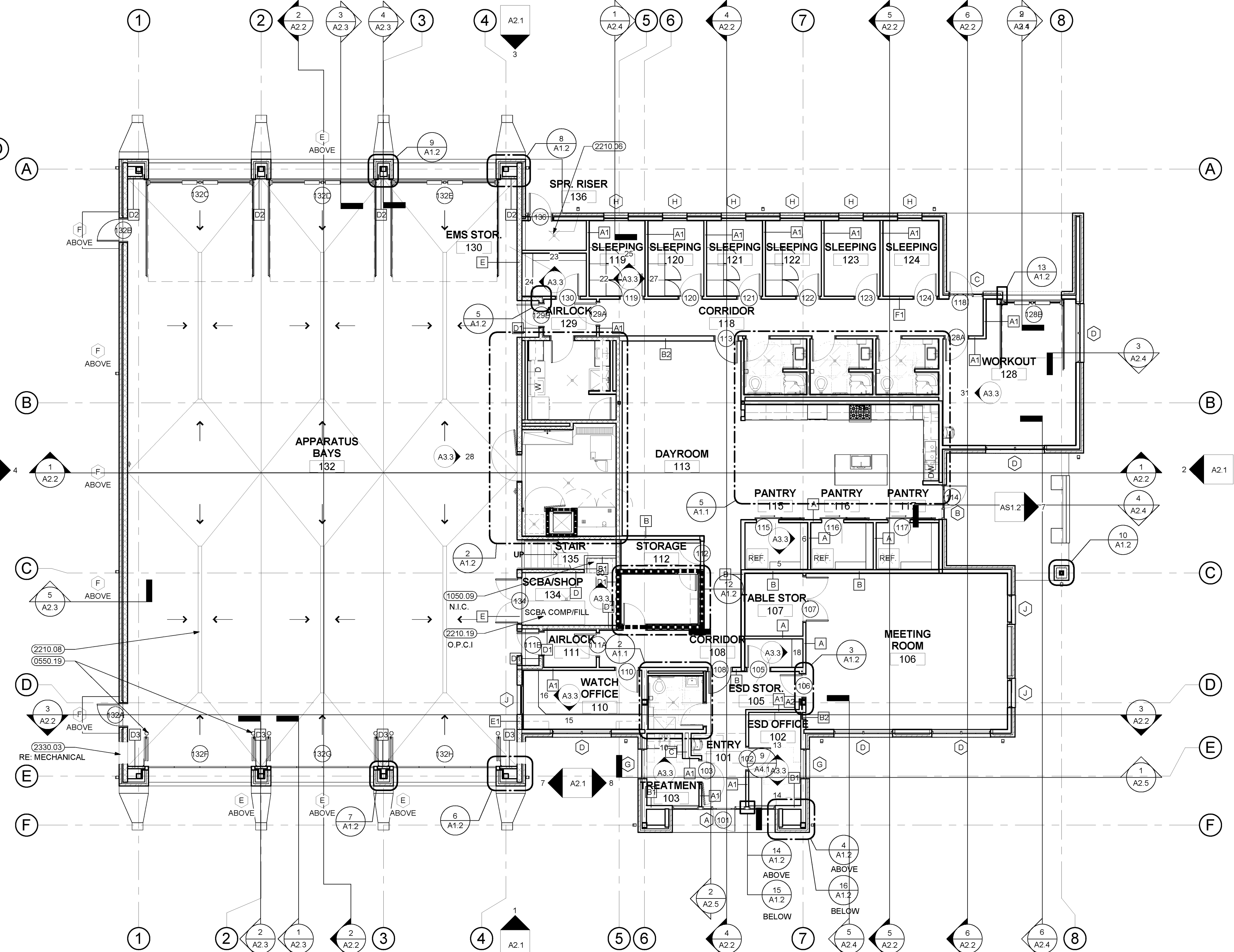
A	2 X 4 @ 16" O.C. W/BRACING @ 4'-0" O.C.	4 3/4"	TO 3" ABOVE CEILING	X	1 LAYER GYP PUBLIC SIDE, 1 LAYER PLYWOOD UTILITY SIDE @ 200 COMM. ELEC.
A1	2 X 4 @ 16" O.C.	4 3/4"	TO B.O. STRUCTURE	X	1 LAYER GYP PUBLIC SIDE, 1 LAYER PLYWOOD UTILITY SIDE
A2	2 X 4 @ 16" O.C.	4 1/8"	TO B.O. STRUCTURE	X	1 LAYER GYP PUBLIC SIDE
A3	2 X 4 @ 16" O.C.	4 1/8"	TO 3" ABOVE CEILING	X	1 LAYER GYP PUBLIC SIDE
A4	2 X 4 @ 16" O.C.	2 5/8"	TO 3" ABOVE CEILING	X	ATTACH TO LOAD BEARING SLICE AS VERTICAL FURRING. PART WIDTH INCLUDES SET-TLE BANNER AND WALL TILE.
A5	2 X 4 @ 16" O.C.	4 3/4"	TO B.O. ROOF DECK	X	AVAILABLE FIRE RESISTANCE 1HR.

NOTES:

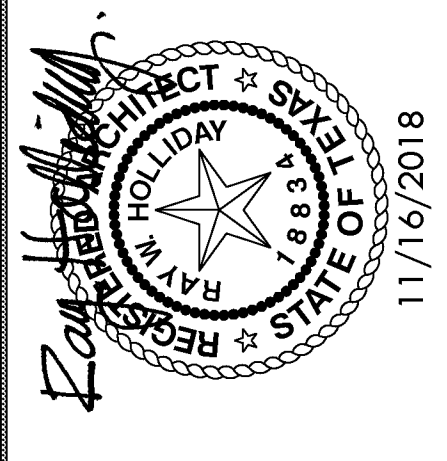
- CROSS-LAY MULTIPLE GWB LAYERS. JOINTS IN MULTIPLE LAYER ASSEMBLY SHALL NOT BE LAID DIRECTLY OVER EACH OTHER. DO NOT BRIDGE BETWEEN STUDS.

PTN TYPE CMU WIDTH PART WIDTH PART HEIGHT INSULATED NOTES

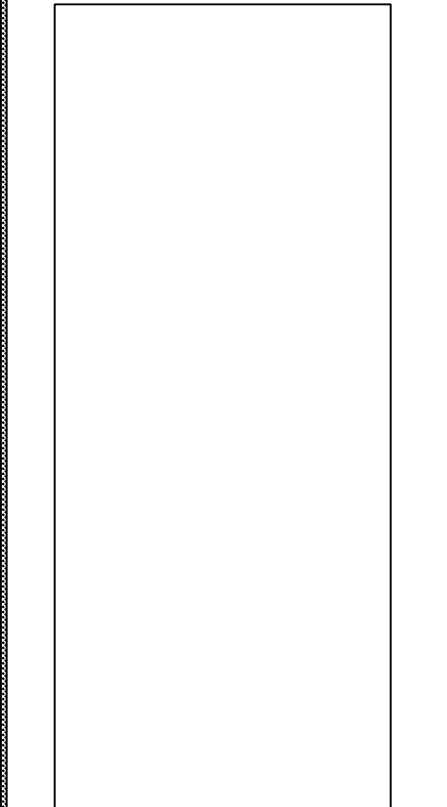
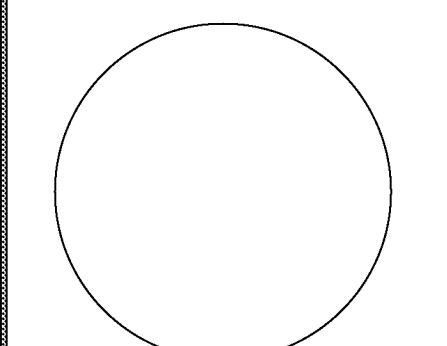
D	6" NOMINAL	5 5/8"	TO 10' - 0" A.F.F.	X	RE: STRUCTURAL FOR SOUNDING REQUIREMENTS (TYP. ALL CMU)
D1	6" NOMINAL	7 3/4"	TO 10' - 0" A.F.F.	X	PUBLIC SIDE: 1 LAYER GYP BOARD ON 2 X 4 STUDS @ 16" O.C. (10' TO 12' FLOOR ABOVE); PRIVATE SIDE: 1 LAYER GYP BOARD ON 2 X 4 STUDS @ 16" O.C. (10' TO 12' FLOOR ABOVE); WITH SOUND BATTS
D2	4" NOMINAL	3 5/8"	TO 14' - 0" A.F.F.		
D3	4" NOMINAL	3 5/8"	TO 16' - 0" A.F.F.		
D4	6" NOMINAL	9 3/4"	TO 10' - 8" A.F.F.	X	PUBLIC SIDE: 1 LAYER GYP BOARD ON 2 X 4 STUDS @ 16" O.C. (10' TO 12' FLOOR ABOVE); WITH SOUND BATTS
D5	6" NOMINAL	9 7/8"	TO 10' - 8" A.F.F.	X	2 HR FIRE BARRIER @ OFFICE 109



- KEYNOTES**
- 0320.02 STEEL REINFORCING (RE: STRUCTURAL)
 - 0360.05 FILL WITH GROUT
 - 0420.02 HORIZONTAL REINFORCING AT 16" O.C. VERTICALLY
 - 0420.10 4" CONCRETE MASONRY UNITS
 - 0420.13 6" CONCRETE MASONRY UNITS
 - 0420.14 8" CONCRETE MASONRY UNITS
 - 0420.24 VERTICAL REINFORCING IN CONCRETE MASONRY UNITS (RE: STRUCTURAL)
 - 0550.19 6" PIPE BOLLARD. FILL WITH CONCRETE
 - 0550.39 1 1/4" DIAMETER STANDARD STEEL PIPE HANDRAIL (3'-0" HIGH U.N.O.)
 - 0610.03 2X WOOD BLOCKING
 - 0610.05 1/2" EXTERIOR GRADE PLYWOOD
 - 0610.09 2 X 4 WOOD STUDS AT 16" O.C.
 - 0610.10 2 X 6 WOOD STUDS AT 16" O.C.
 - 0610.28 3/4" PLYWOOD
 - 0610.29 2X WOOD FURRING STRIPS
 - 0640.52 WOOD STAIR STRINGER
 - 0640.54 WOOD STAIR TREAD
 - 0640.55 WOOD STAIR RISER
 - 0720.17 GRANULAR INSULATING FILL IN CMU BLOCKS
 - 0920.26 5/8" CEMENTITIOUS BACKER BOARD
 - 0920.28 5/8" GYPSUM BOARD (TYPE X)
 - 0920.34 GYPSUM BOARD GUSSETS AT 16" O.C.
 - 0920.45 5/8" GYPSUM BOARD MOISTURE RESISTANT (TYPE X)
 - 0980.03 3 1/2" FIBERGLASS SOUND ATTENUATION INSULATION
 - 1020.16 STAINLESS STEEL 1 1/2" DIAMETER GRAB BAR (36" LONG) PROVIDE BLOCKING IN WALL
 - 1020.17 STAINLESS STEEL 1 1/2" DIAMETER GRAB BAR (42" LONG) PROVIDE BLOCKING IN WALL
 - 1020.20 SOAP DISPENSER (SURFACE MOUNTED)
 - 1020.24 STAINLESS STEEL SURFACE MOUNTED TOILET PAPER DISPENSER
 - 1020.32 STAINLESS STEEL FRAMED MIRROR
 - 1020.35 ROBE / TOWEL HOOK
 - 1020.37 WALL MOUNTED FOLDING SHOWER SEAT
 - 1020.39 PROVIDE BLOCKING IN WALL AS REQUIRED
 - 1020.38 STAINLESS STEEL SHOWER CURTAIN ROD WITH VINYL CURTAIN AND HOOKS
 - 1020.41 WALL MOUNTED TOWEL BAR
 - 1020.47 WALL MOUNTED FOLDING BABY CHANGING STATION. PROVIDE BLOCKING IN WALL AS REQUIRED
 - 1022.01 MODULAR WIRE MESH PARTITION SYSTEM
 - 1040.03 FIRE EXTINGUISHER AND SEMI-RECESSED CABINET
 - 1050.06 BUNKER GEAR RACK
 - 1050.09 SCBA TANK STORAGE UNIT
 - 1130.05 DISHWASHER
 - 1130.09 GAS RANGE
 - 1230.23 QUARTZ COUNTERTOP WITH SPLASH AS SHOWN
 - 1410.01 COMMERCIAL DUMBWATER
 - 2210.06 FLOOR DRAIN
 - 2210.08 TRAFFIC RATED TRENCH DRAIN
 - 2210.19 SCBA (O.P.C.I.)
 - 2240.01 WATER CLOSET. ORIENT FLUSH VALVE TOWARDS ACCESSIBLE SPACE AT ACCESSIBLE STALLS / RESTROOMS
 - 2240.03 WALL-HUNG LAVATORY WITH CARRIER
 - 2240.09 SHOWER HEAD
 - 2330.01 HVAC DUCTWORK
 - 2330.03 MOTORIZED DAMPER
 - 2650.01 RECESSED LIGHT FIXTURE
 - 2650.16 LED FLEXIBLE LIGHTING SYSTEM



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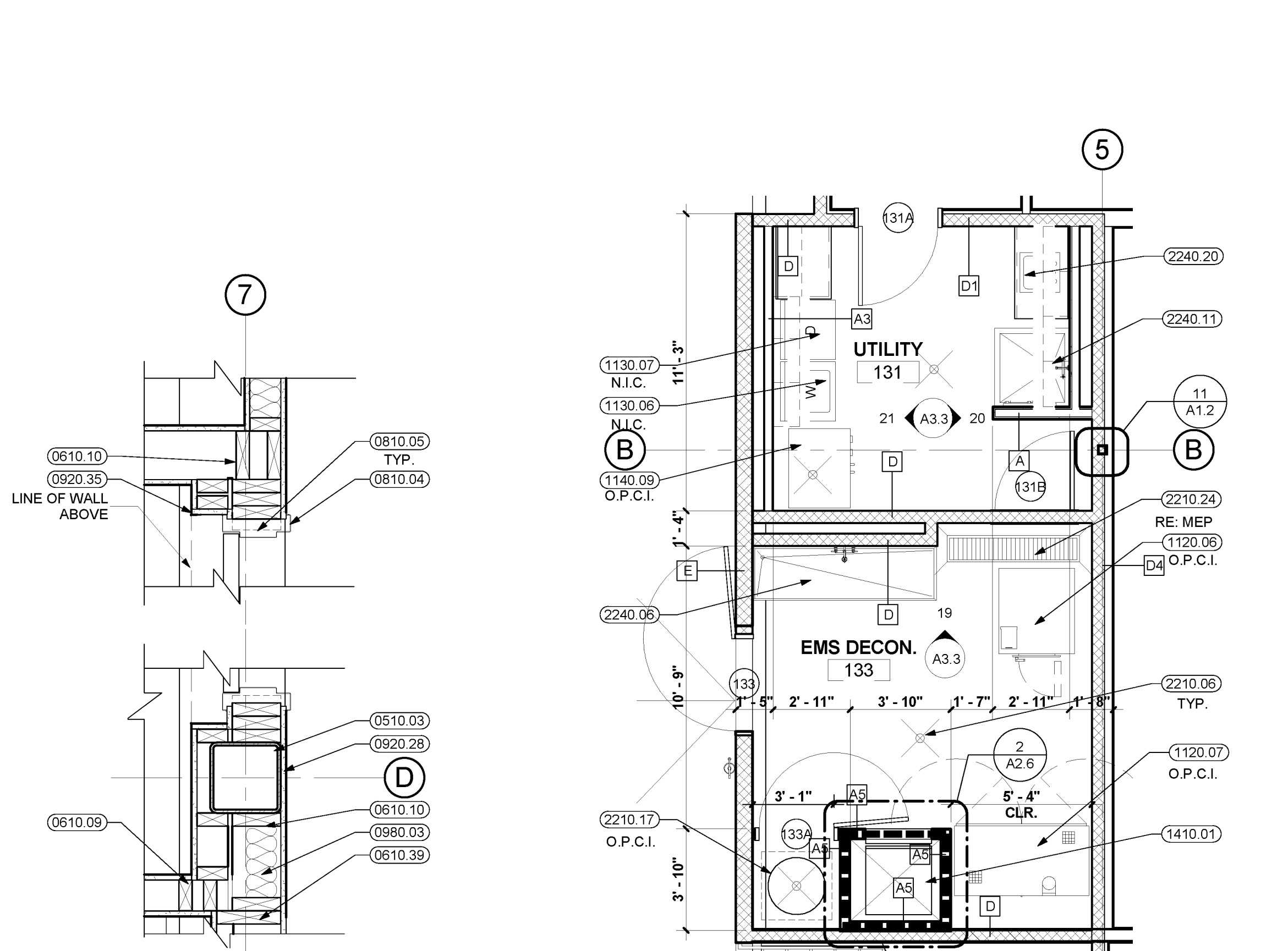


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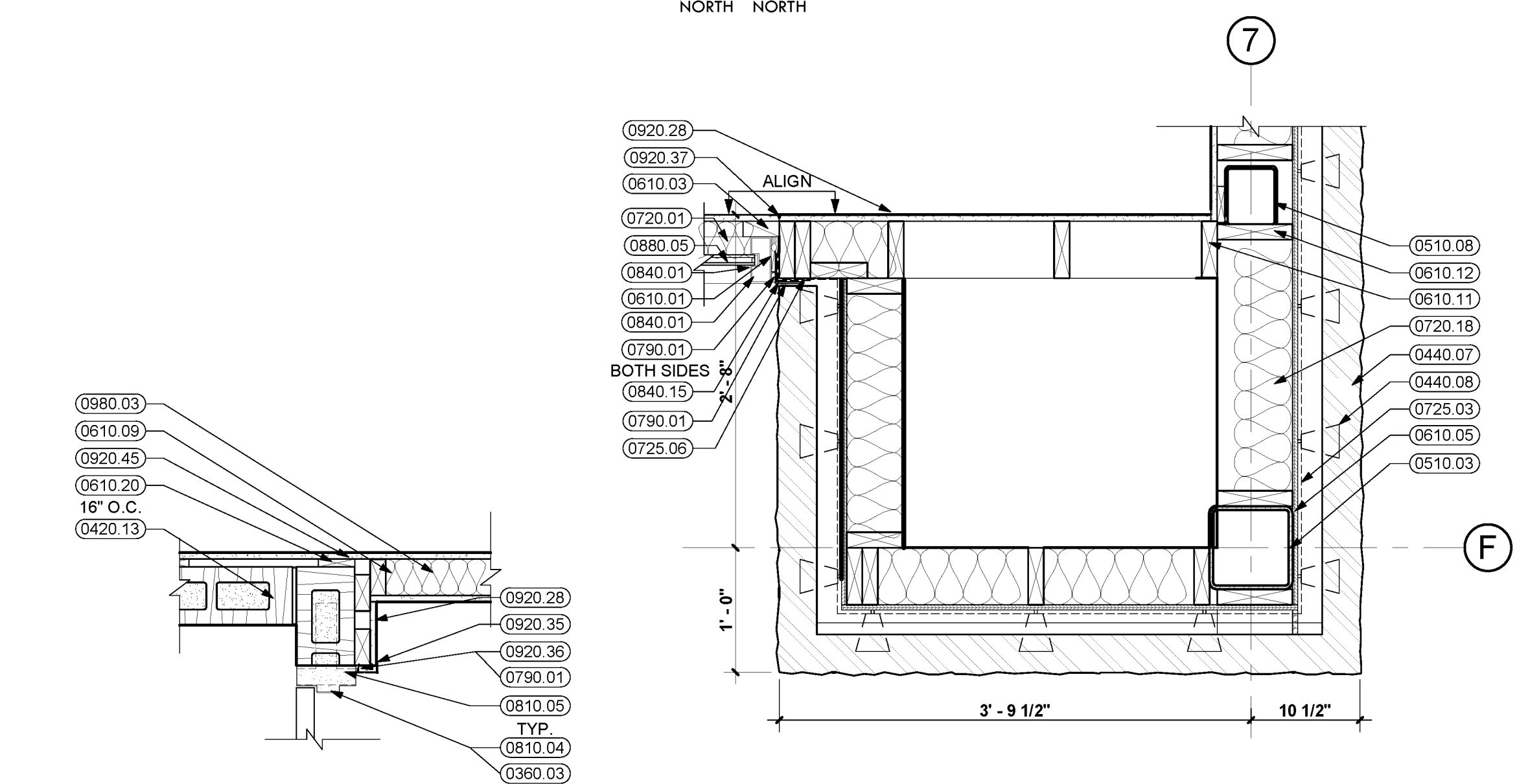
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A1.1
 FLOOR PLAN AND ENLARGED PLANS



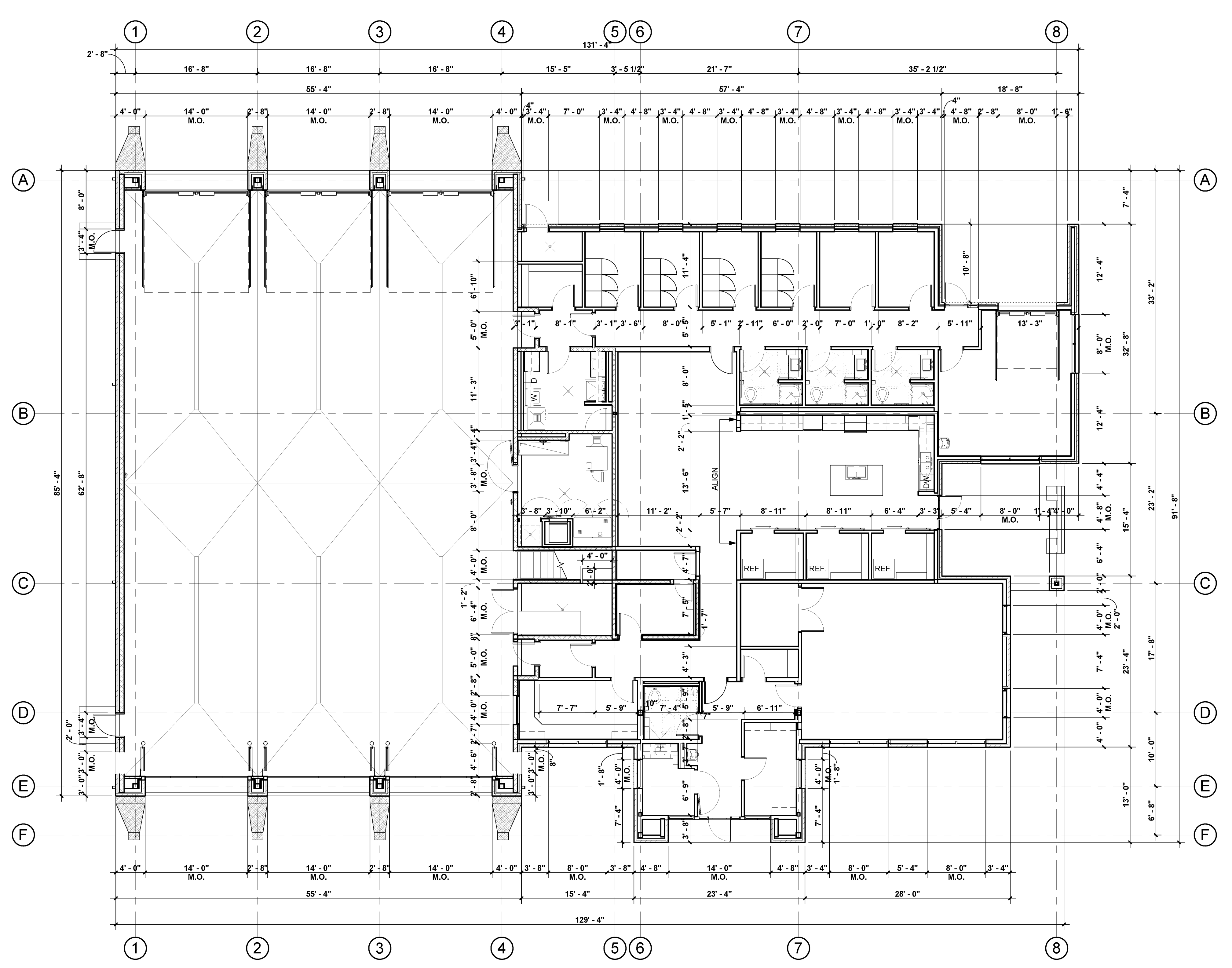
3 PLAN DETAIL
1" = 1'-0"

2 ENLARGED PLAN
1/4" = 1'-0"

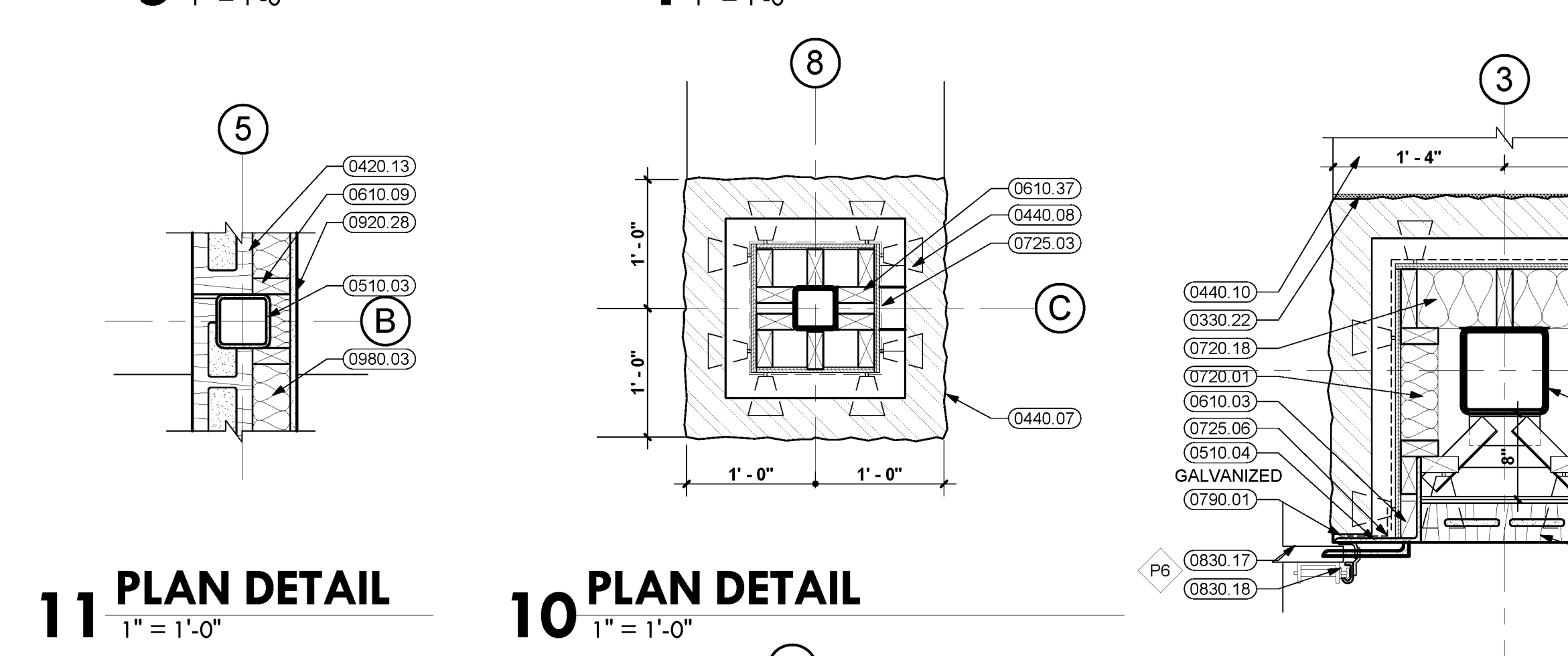


5 PLAN DETAIL
1" = 1'-0"

4 PLAN DETAIL (LOWER)
1" = 1'-0"

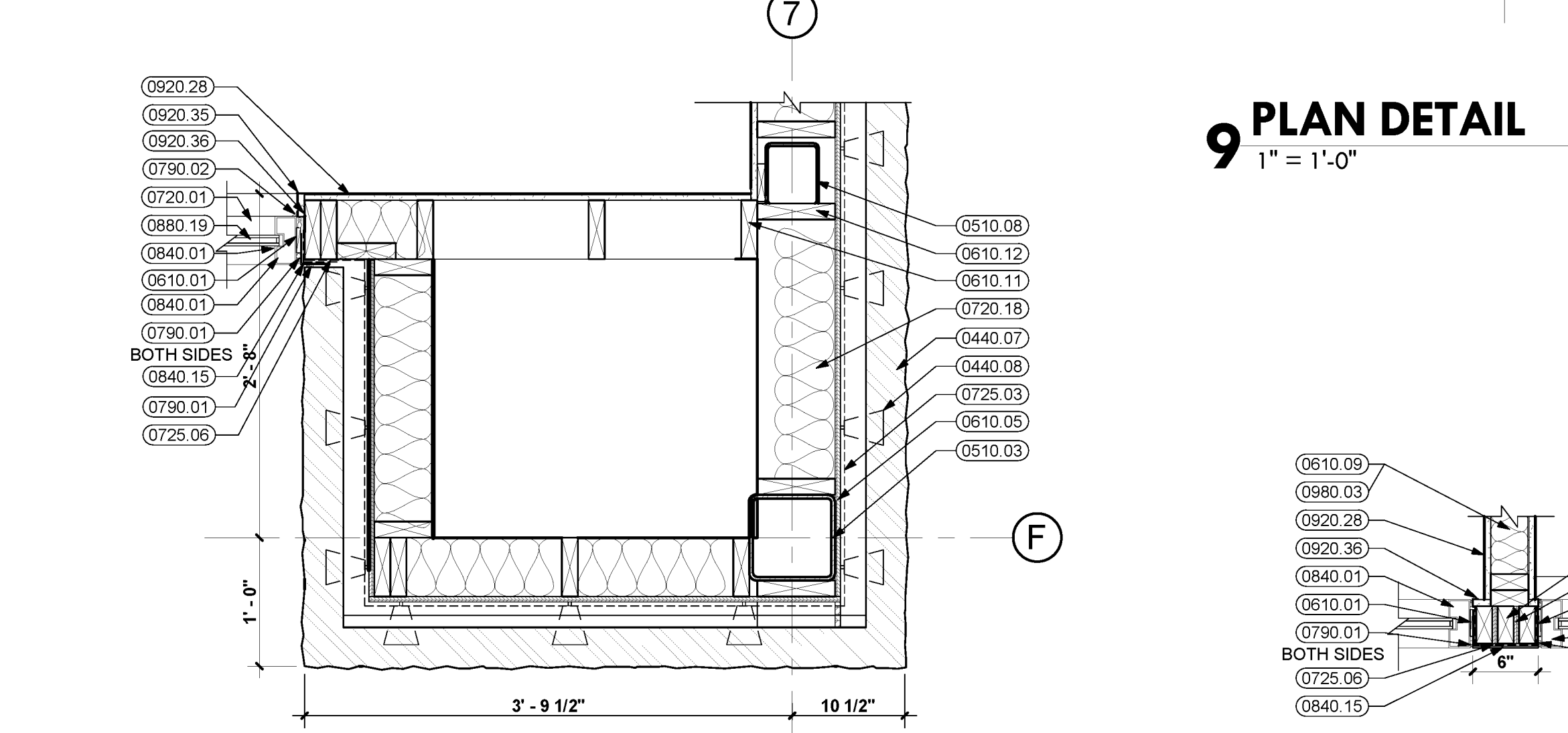


1 FIRST FLOOR DIMENSION PLAN
1/8" = 1'-0"

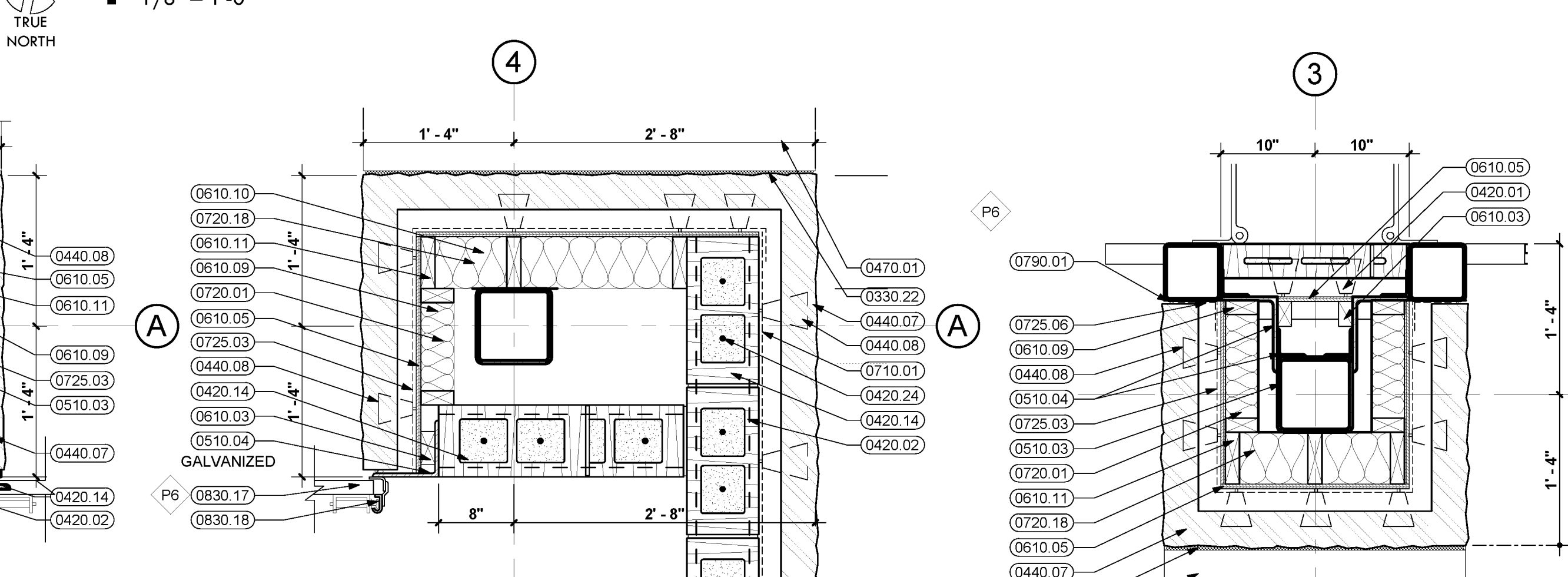


11 PLAN DETAIL
1" = 1'-0"

10 PLAN DETAIL
1" = 1'-0"

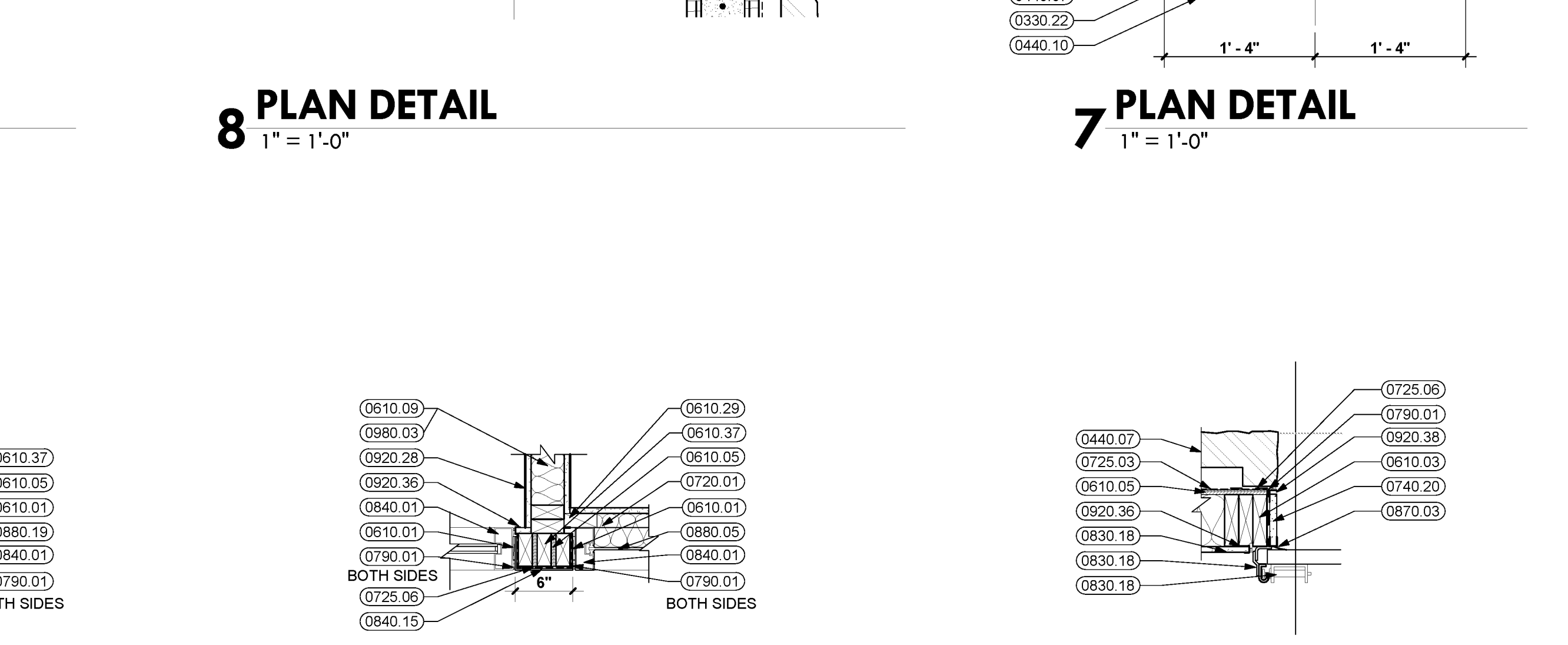


16 PLAN DETAIL
1" = 1'-0"



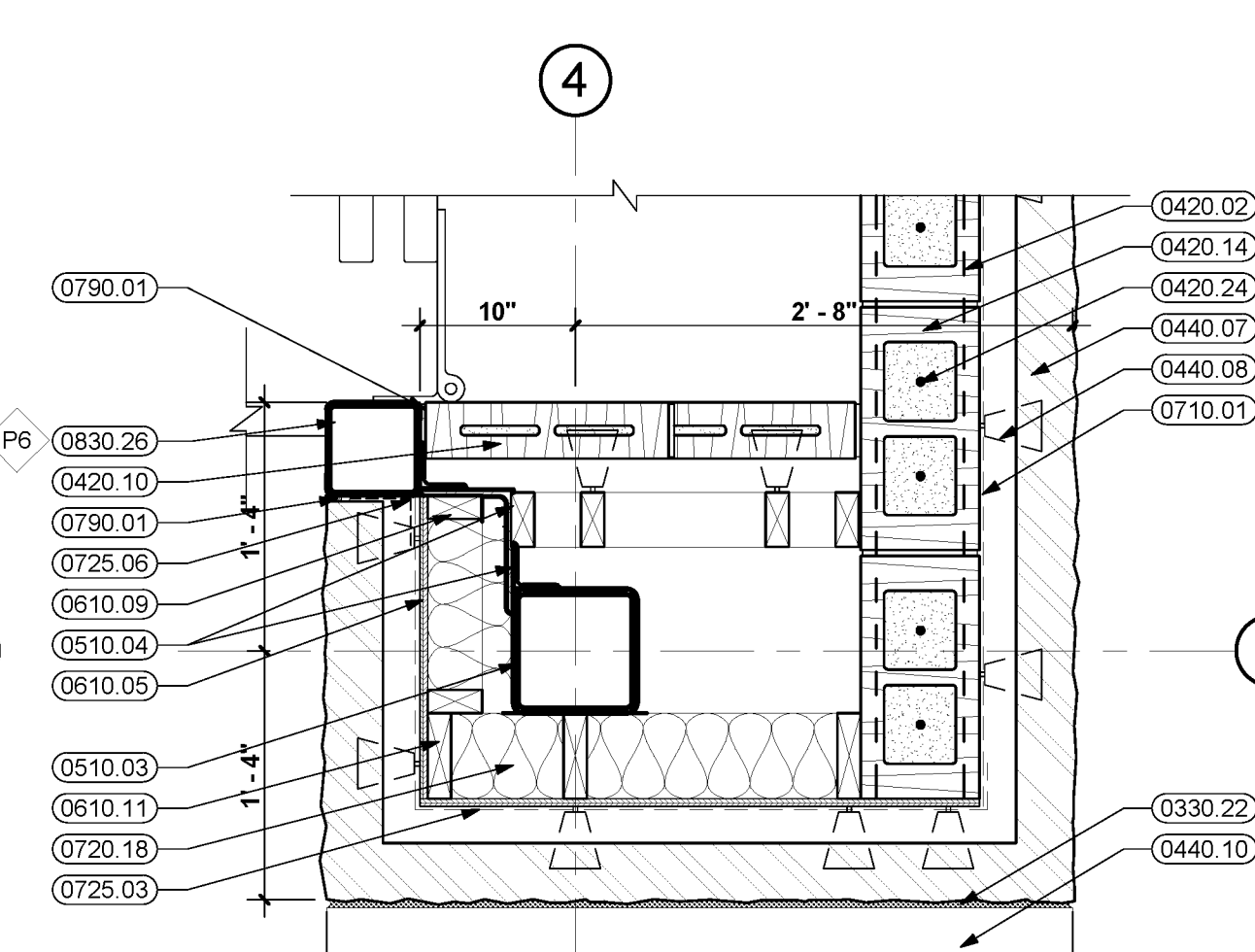
8 PLAN DETAIL
1" = 1'-0"

7 PLAN DETAIL
1" = 1'-0"

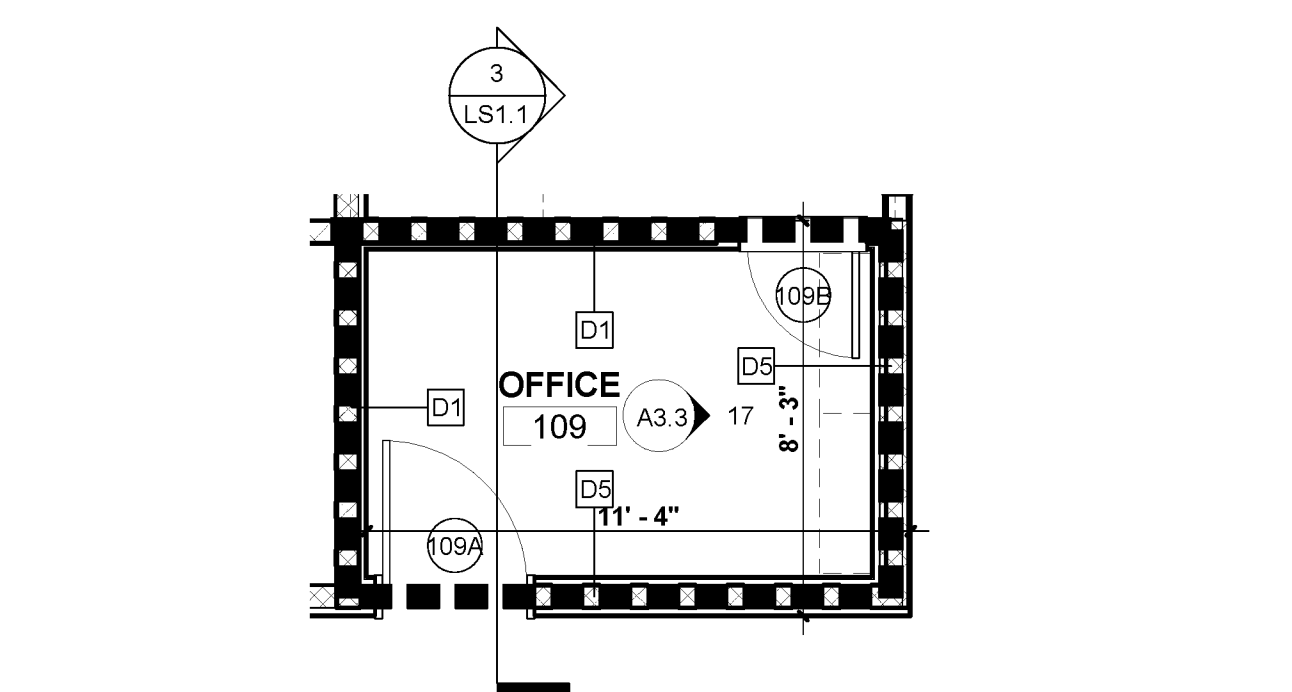


14 PLAN DETAIL
1" = 1'-0"

13 PLAN DETAIL
1" = 1'-0"

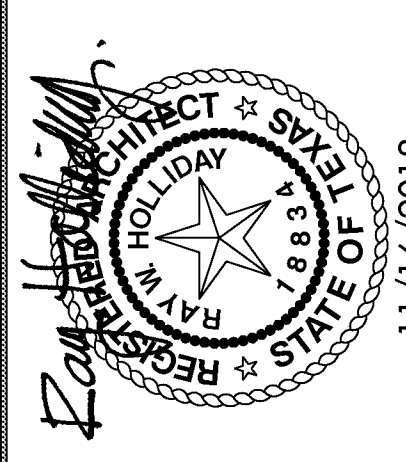


6 PLAN DETAIL
1" = 1'-0"

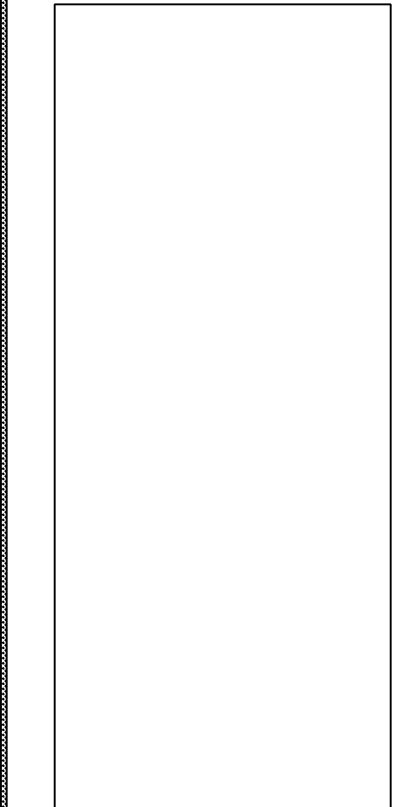
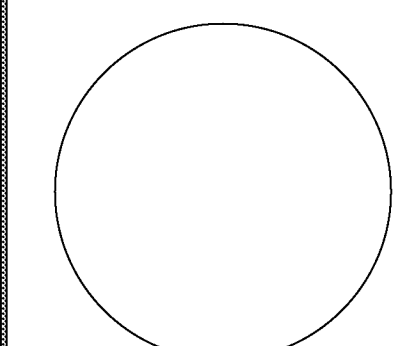


12 ENLARGED PLAN
1/4" = 1'-0"

- KEYNOTES**
- 0330.22 CONCRETE EXPANSION JOINT - FILL W/ JOINT SEALER 1/4" BELOW SURFACE
 - 0360.03 FILL WITH GROUT
 - 0420.01 ADJUSTABLE MASONRY WALL TIES AT 16" O.C.E.W.
 - 0420.02 HORIZONTAL REINFORCING AT 16" O.C. VERTICALLY
 - 0420.10 4" CONCRETE MASONRY UNITS
 - 0420.13 6" CONCRETE MASONRY UNITS
 - 0420.14 8" CONCRETE MASONRY UNITS
 - 0420.24 VERTICAL REINFORCING IN CONCRETE MASONRY UNITS (RE: STRUCTURAL)
 - 0440.07 STONE VENEER
 - 0440.08 ADJUSTABLE MASONRY WALL TIES AT 16" O.C.E.W.
 - 0440.10 2" CUT STONE
 - 0470.01 CAST STONE
 - 0510.03 STEEL TUBE COLUMN (RE: STRUCTURAL)
 - 0510.04 STEEL ANGLE (RE: STRUCTURAL)
 - 0510.08 STEEL DIAGONAL BRACE (RE: STRUCTURAL)
 - 0610.01 SHIM AS REQUIRED
 - 0610.03 2X WOOD BLOCKING
 - 0610.05 1/2" EXTERIOR GRADE PLYWOOD
 - 0610.09 2 X 4 WOOD STUDS AT 16" O.C.
 - 0610.10 2 X 6 WOOD STUDS AT 16" O.C.
 - 0610.11 2 X 6 WOOD FRAMING
 - 0610.12 2 X 8 WOOD FRAMING
 - 0610.20 1X WOOD FURRING STRIP
 - 0610.29 2X WOOD FURRING STRIPS
 - 0610.37 2 X 4 WOOD FRAMING
 - 0610.39 2 X 8 STUDS AT 16" O.C.
 - 0710.01 BITUMINOUS DAMPPROOFING
 - 0720.01 3 1/2" BATT INSULATION
 - 0720.18 5 1/2" BATT INSULATION
 - 0725.03 PLASTIC FILM AIR BARRIER
 - 0725.06 SELF-ADHERING FLEXIBLE SURROUND FLASHING
 - 0740.20 FIBER REINFORCED CEMENTITIOUS TRIM
 - 0790.01 SEALANT WITH BACKER ROD AS REQUIRED
 - 0790.02 CAULKING
 - 0810.04 HOLLOW METAL DOOR AND FRAME
 - 0810.05 JAMB ANCHOR (3 PER JAMB)
 - 0830.17 UPWARD-ACTING SECTIONAL DOOR TRACK
 - 0830.18 UPWARD-ACTING SECTIONAL DOOR TRACK
 - 0830.26 ELECTRIC OPERATED FOLDING DOORS
 - 0840.01 ALUMINUM STOREFRONT
 - 0840.15 060 ALUMINUM BRAKE METAL FINISH TO MATCH STOREFRONT
 - 0870.03 BRUSHWEATHER SEAL
 - 0880.05 1/4" SPANDREL GLASS
 - 0880.19 1" TINTED GLASS, INSULATED, LOW-E
 - 0920.28 5/8" GYPSUM BOARD (TYPE X)
 - 0920.35 CORNER BEAD, TYPICAL
 - 0920.36 J-MOULD, TYPICAL
 - 0920.37 GYPSUM BOARD CONTROL JOINT
 - 0920.38 PRE-MANUFACTURED CONTINUOUS ALUMINUM F REVEAL MOLDING
 - 0920.45 5/8" GYPSUM BOARD MOISTURE RESISTANT (TYPE X)
 - 0980.03 3 1/2" FIBERGLASS SOUND ATTENUATION INSULATION
 - 1120.06 CLOTHES EXTRACTOR
 - 1120.07 BUNKER GEAR DRYING CABINET
 - 1130.08 WASHING MACHINE
 - 1130.07 CLOTHES DRYER
 - 1140.09 ICE MACHINE
 - 1410.01 COMMERCIAL DUMBWATER
 - 2210.06 FLOOR DRAIN
 - 2210.17 AIR COMPRESSOR/TANK (RE: MECHANICAL)
 - 2210.24 TRENCH DRAIN
 - 2240.06 STAINLESS STEEL SINK
 - 2240.11 MOP SINK
 - 2240.20 UNDERMOUNT SINK



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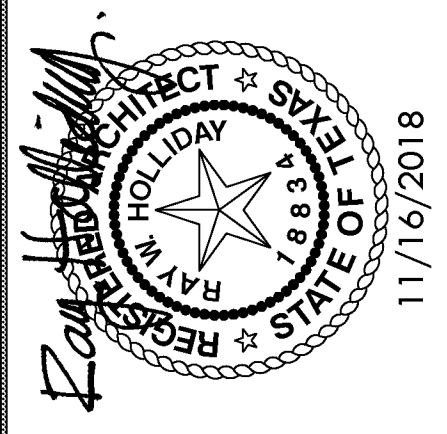


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CHECKED BY RH
BRW PROJECT NUMBER 217079.00

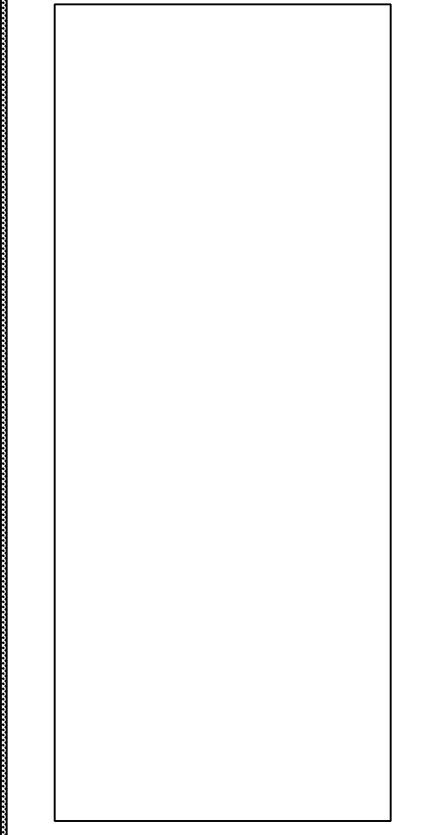
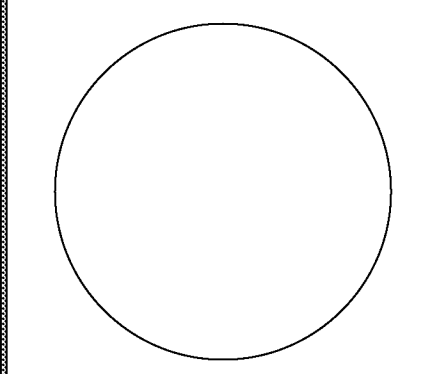
CITY OF GEORGETOWN
FIRE STATION No. 6
6700 R.M. 2338
GEORGETOWN, TX, 78633

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A1.2
DIMENSION PLAN AND PLAN DETAILS



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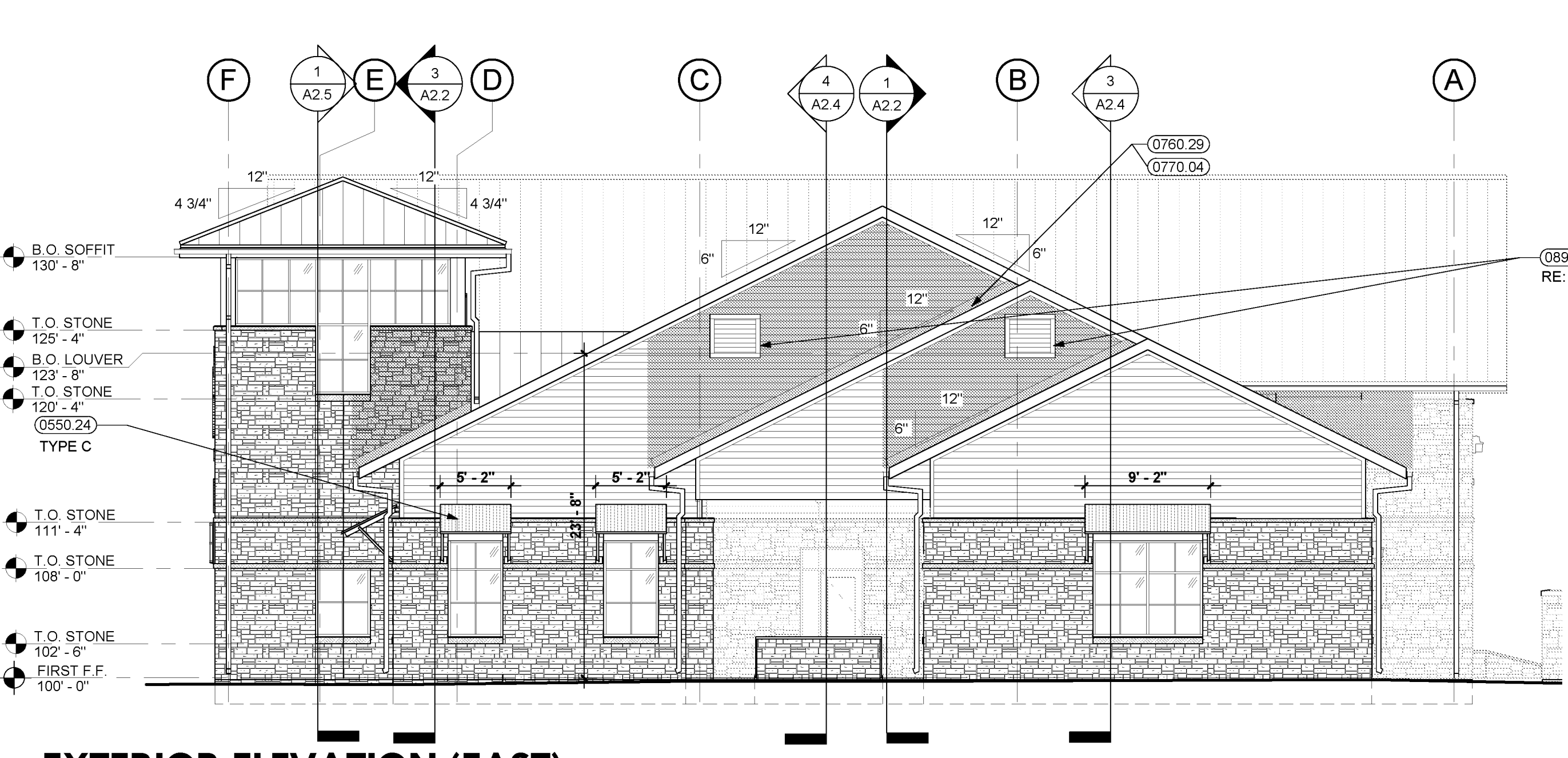
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 CHECKED BY RH
 BRW PROJECT NUMBER 217079.00

CITY OF GEORGETOWN
 FIRE STATION No. 6
 6700 R.M. 2338
 GEORGETOWN, TX 78633

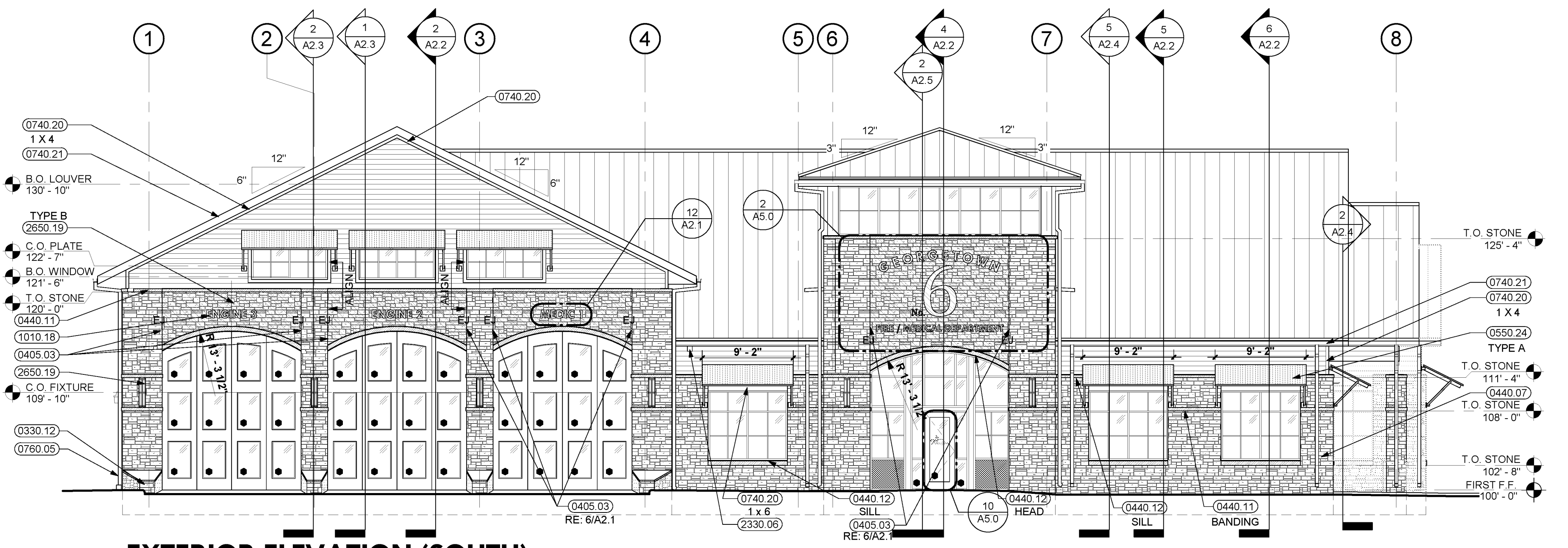
NO.	REVISION	DATE

A2.1
 EXTERIOR ELEVATIONS

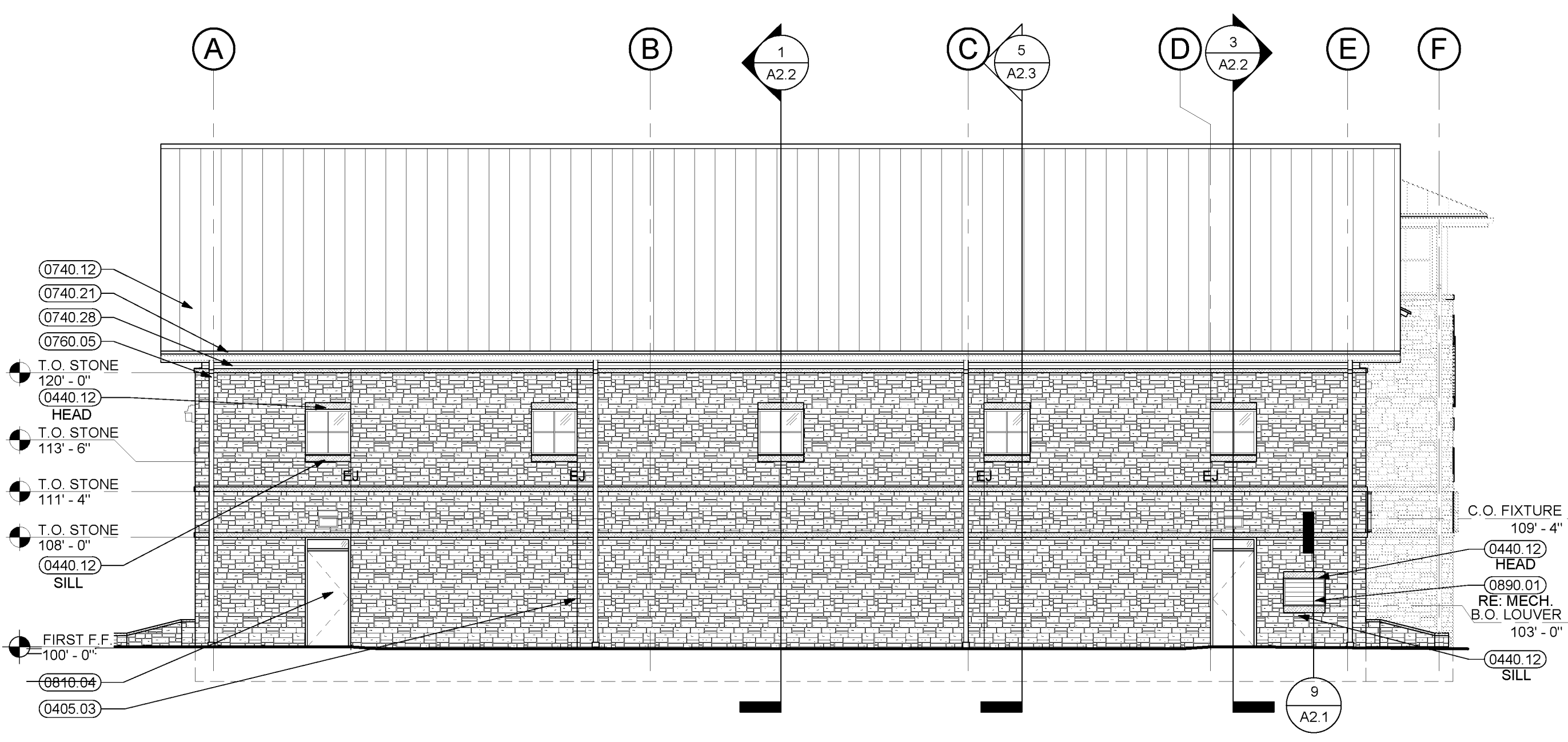
- ### KEYNOTES
- 0330.12 CONCRETE BOLLARD
 - 0405.03 MASONRY EXPANSION JOINT
 - 0420.01 ADJUSTABLE MASONRY WALL TIES AT 16" O.C. E-W
 - 0420.02 HORIZONTAL REINFORCING AT 16" O.C. VERTICALLY
 - 0420.14 8" CONCRETE MASONRY UNITS
 - 0420.23 CONCRETE MASONRY BOND BEAM
 - 0440.07 STONE VENEER
 - 0440.08 ADJUSTABLE MASONRY WALL TIES AT 16" O.C. E-W
 - 0440.10 2" CUT STONE
 - 0440.11 4" CUT STONE
 - 0440.12 6" CUT STONE
 - 0470.05 CAST STONE SILL WITH DRIP
 - 0510.04 STEEL ANGLE (RE. STRUCTURAL)
 - 0510.06 STEEL LINTEL / PLATE (RE. STRUCTURAL)
 - 0530.06 GALVANIZED METAL DECK (RE. STRUCTURAL)
 - 0550.02 3" X 3" X 1/4" STEEL ANGLE
 - 0550.24 GALVANIZED METAL CANOPY
 - 0550.61 GALVANIZED METAL FASTENER (RE. STRUCTURAL)
 - 0610.01 SHIM AS REQUIRED
 - 0610.03 2X WOOD BLOCKING
 - 0710.01 BITUMINOUS DAMPPROOFING
 - 0725.02 SELF-ADHERING MODIFIED BITUMINOUS SHEET AIR BARRIER
 - 0740.12 PREFINISHED METAL STANDING SEAM ROOFING
 - 0740.20 FIBER REINFORCED CEMENTITIOUS TRIM
 - 0740.21 FIBER REINFORCED CEMENTITIOUS FASCIA
 - 0740.28 FIBER REINFORCED CEMENTITIOUS SIDING
 - 0760.01 THROUGH-WALL FLASHING (WITH WEEPS AT 2" O.C.) AND MORTAR NET
 - 0760.03 GALVANIZED METAL GUTTER
 - 0760.05 GALVANIZED METAL DOWNSPOUT WITH FABRICATED TRANSITION TO DOWNSPOUT BOOT
 - 0760.06 GALVANIZED METAL DOWNSPOUT
 - 0760.29 PREFINISHED RAWWALL TRIM
 - 0770.04 PREFINISHED METAL REGLET WITH SEALANT AND COUNTERFLASHING SEALANT WITH BACKER ROD AS REQUIRED
 - 0790.01 HOLLOW METAL DOOR AND FRAME
 - 0810.12 METAL LOUVER
 - 0830.17 UPWARD-ACTING SECTIONAL DOOR
 - 0840.01 ALUMINUM STOREFRONT
 - 0840.03 060 ALUMINUM SILL WITH HEMMED AND CLOSED ENDS
 - 0840.05 CONTINUOUS ALUMINUM SILL FLASHING
 - 0840.15 060 ALUMINUM BRAKE METAL FINISH TO MATCH STOREFRONT
 - 0850.05 ALUMINUM SINGLE-HUNG WINDOW
 - 0890.01 PREFINISHED FIXED ALUMINUM LOUVER (WITH INSECT SCREEN)
 - 0890.05 CLOTHES DRYER VENT WITH FLAP
 - 1010.12 CAST BRONZE PLAQUE
 - 1010.18 METAL LETTERING
 - 1040.01 LOCKBOX FOR FIRE DEPARTMENT KEY ACCESS (COORDINATE LOCATION WITH FIRE MARSHAL)
 - 2330.06 OUTSIDE AIR INTAKE HOOD
 - 2330.21 EXHAUST VENT CAP WITH INTEGRAL BACKDRAFT DAMPER
 - 2650.16 WALL PACK LIGHT FIXTURE
 - 2650.19 EXTERIOR LIGHT FIXTURE



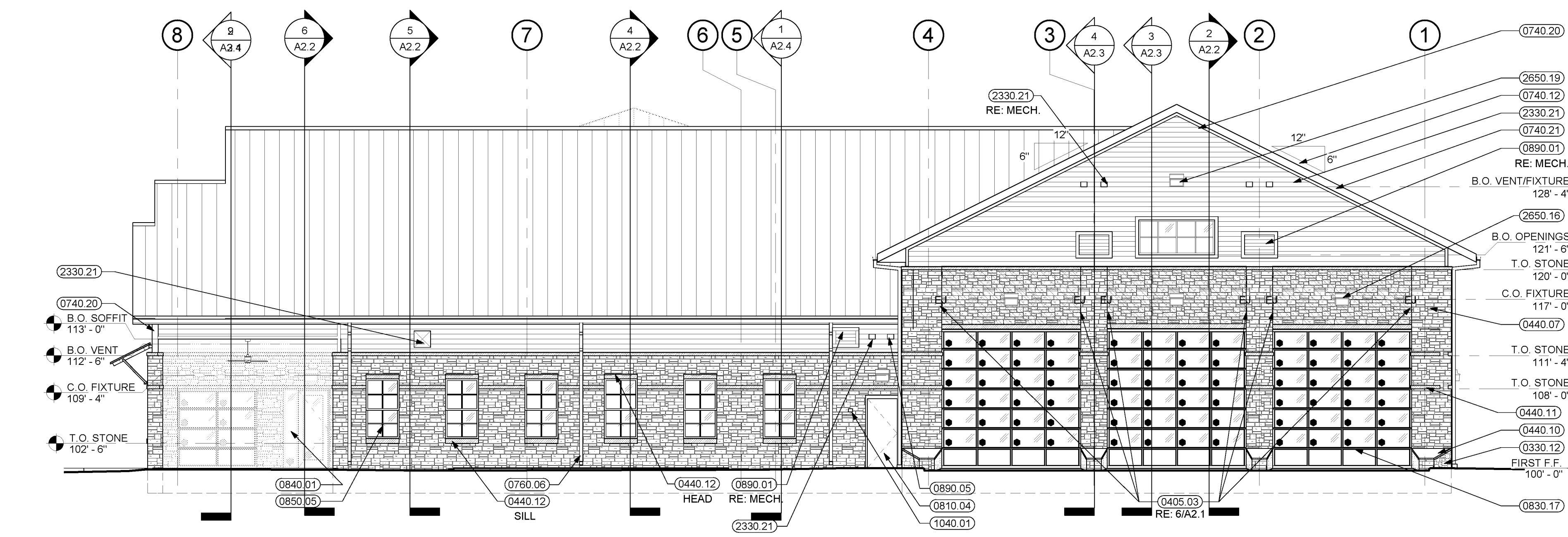
2 EXTERIOR ELEVATION (EAST)
 1/8" = 1'-0"



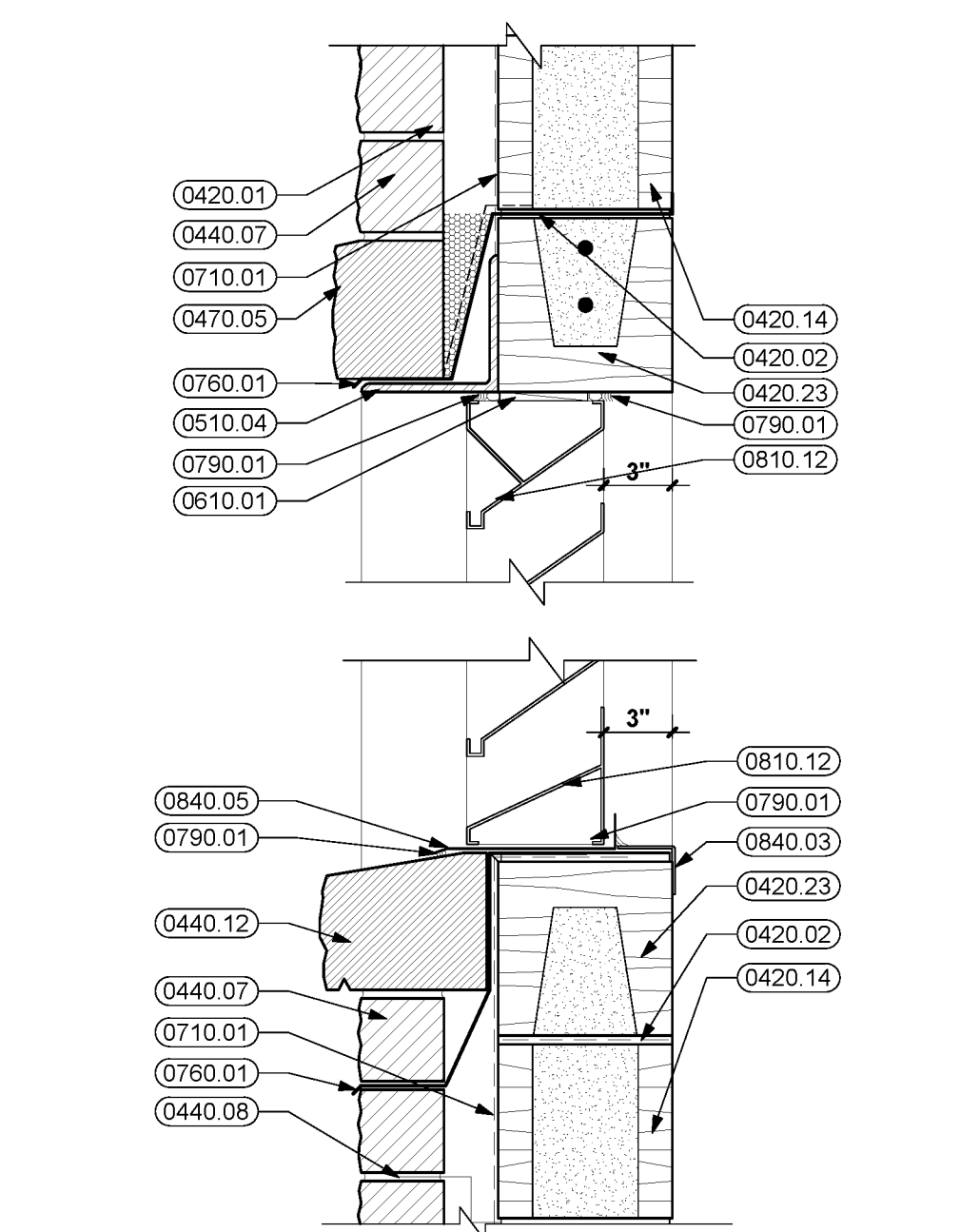
1 EXTERIOR ELEVATION (SOUTH)
 1/8" = 1'-0"



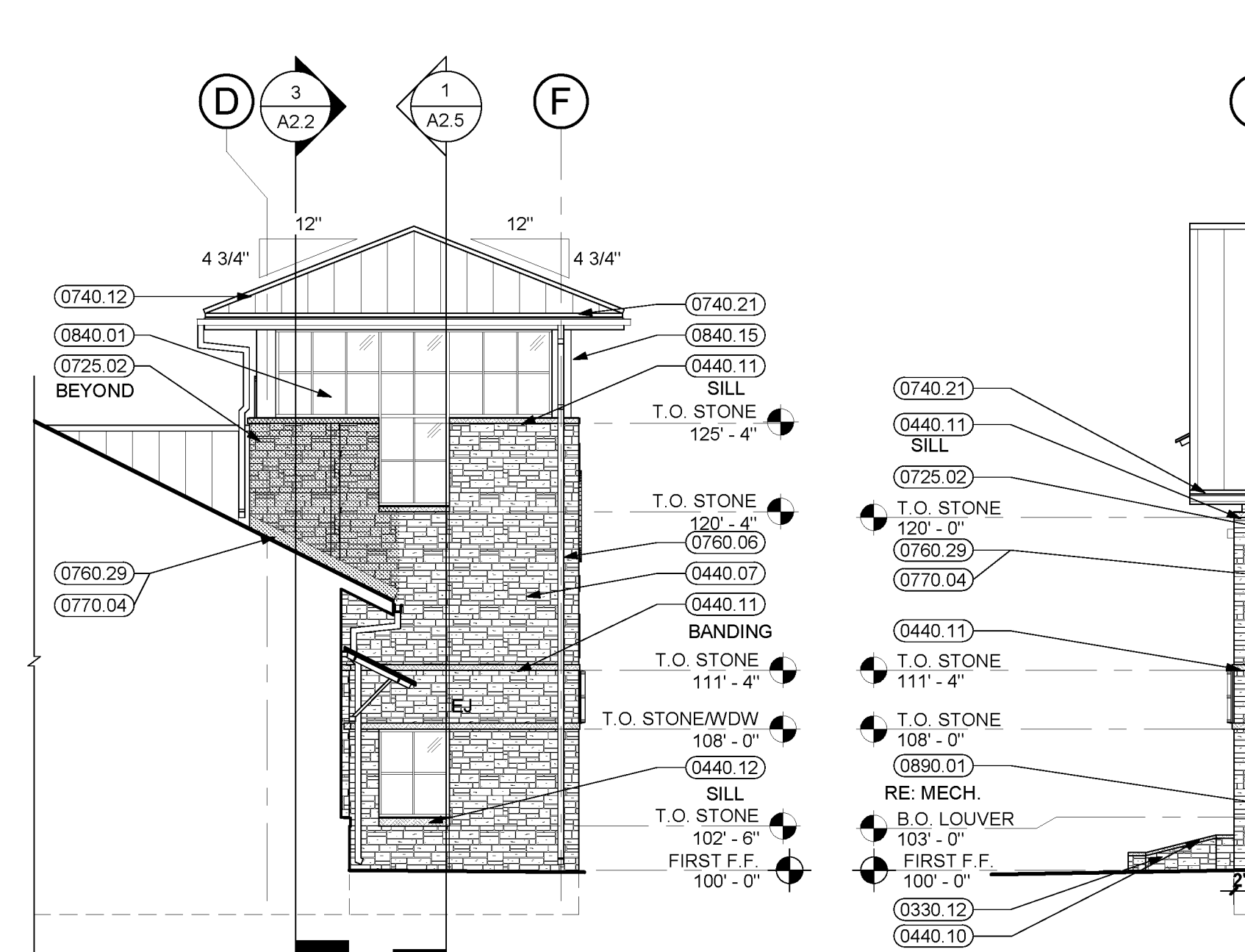
4 EXTERIOR ELEVATION (WEST)
 1/8" = 1'-0"



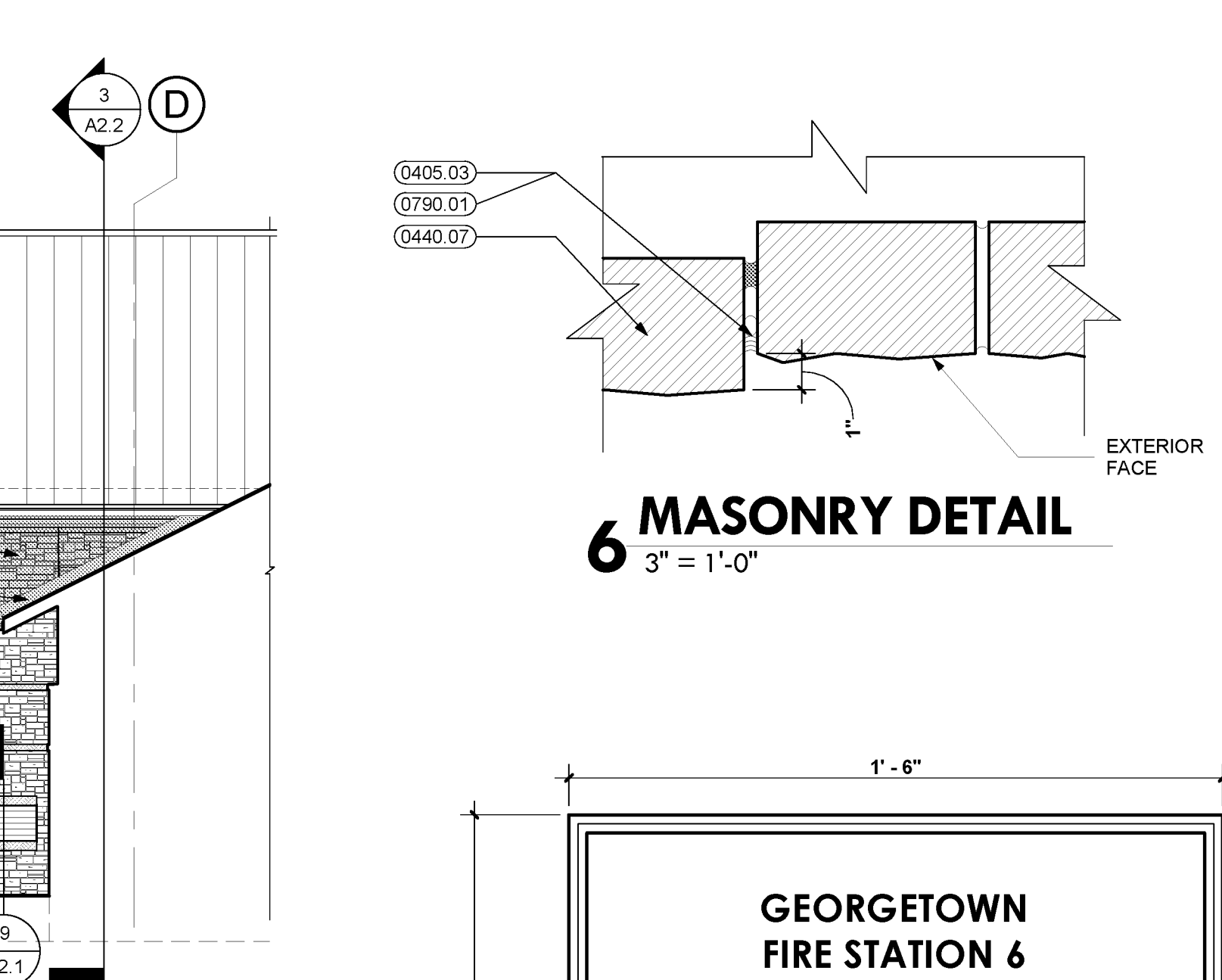
3 EXTERIOR ELEVATION (NORTH)
 1/8" = 1'-0"



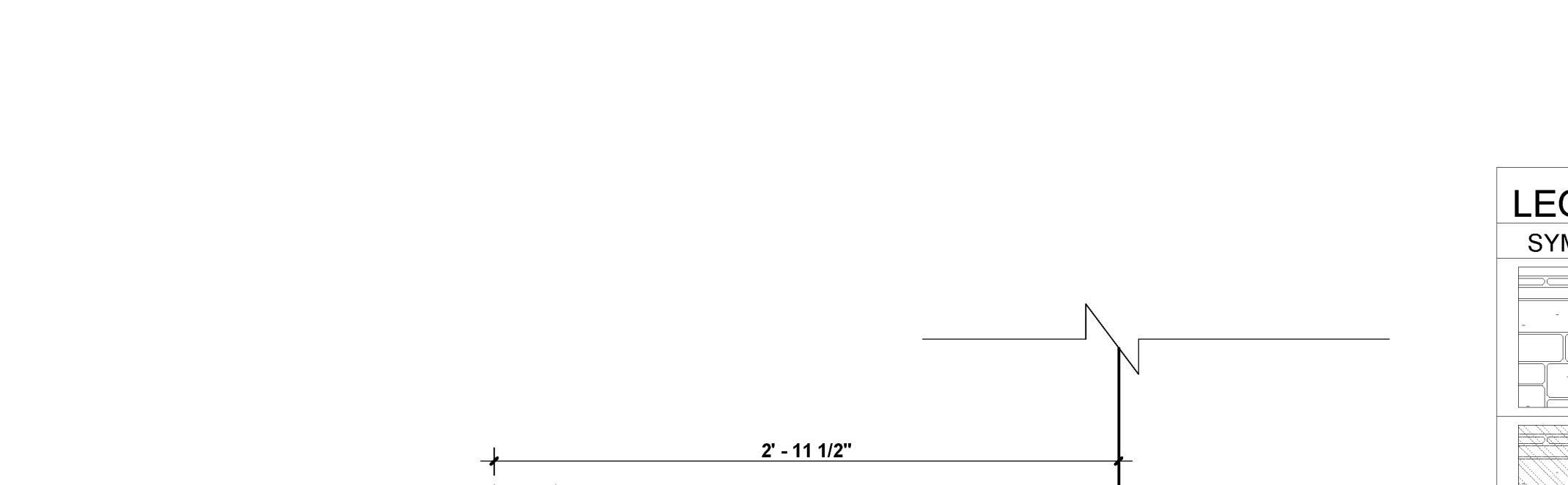
9 LOUVER DETAIL
 1 1/2" = 1'-0"



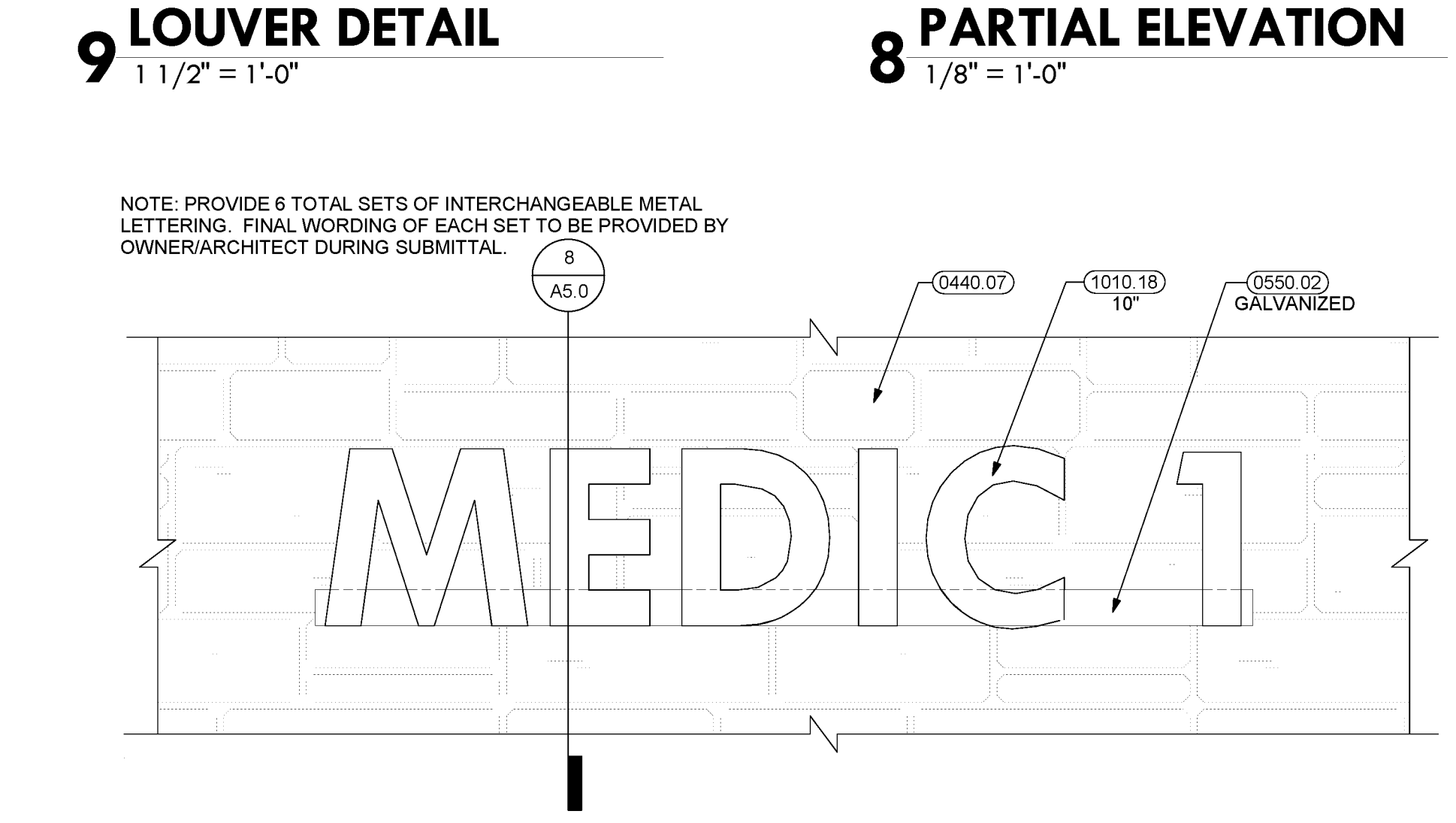
8 PARTIAL ELEVATION
 1/8" = 1'-0"



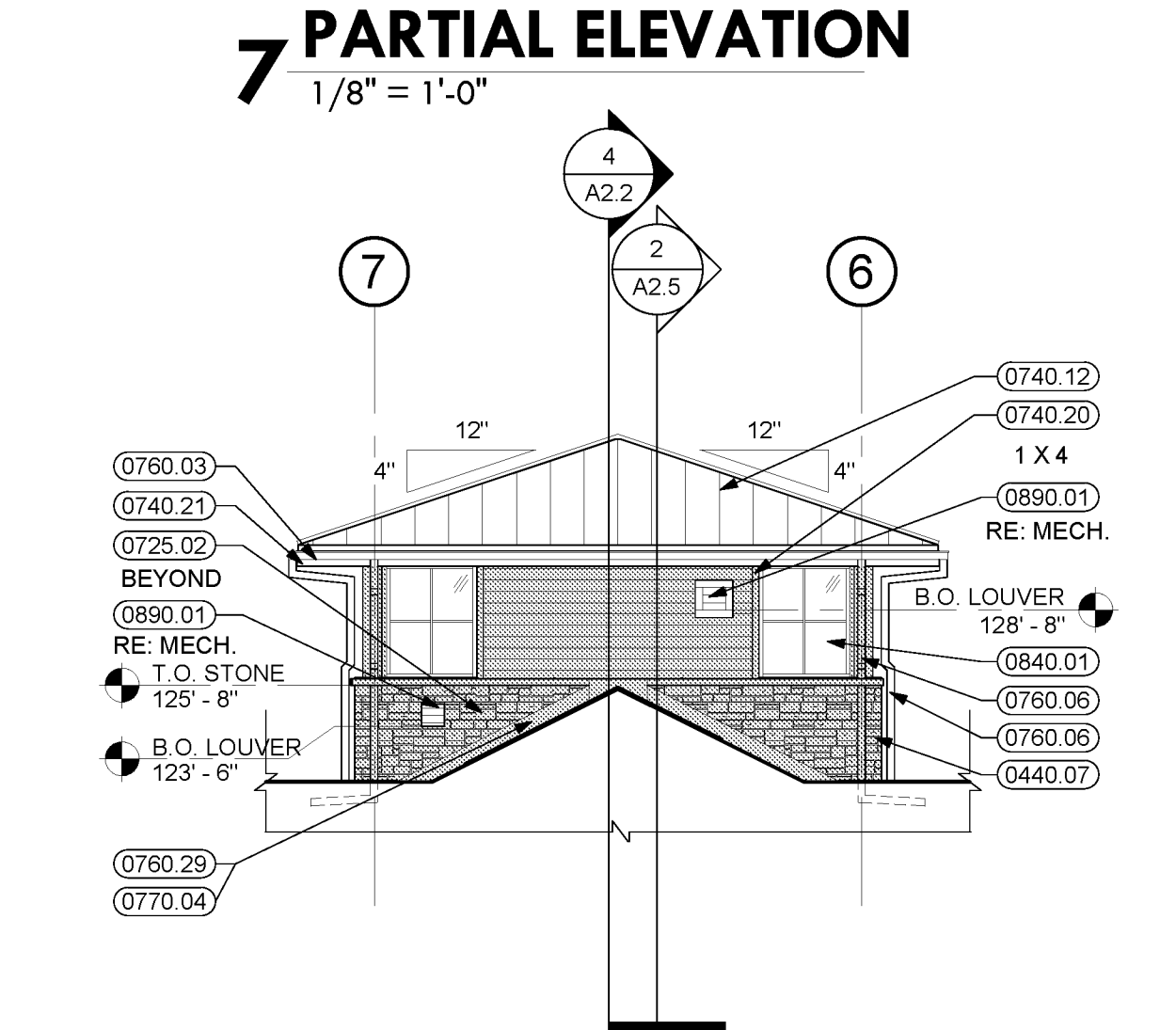
7 PARTIAL ELEVATION
 1/8" = 1'-0"



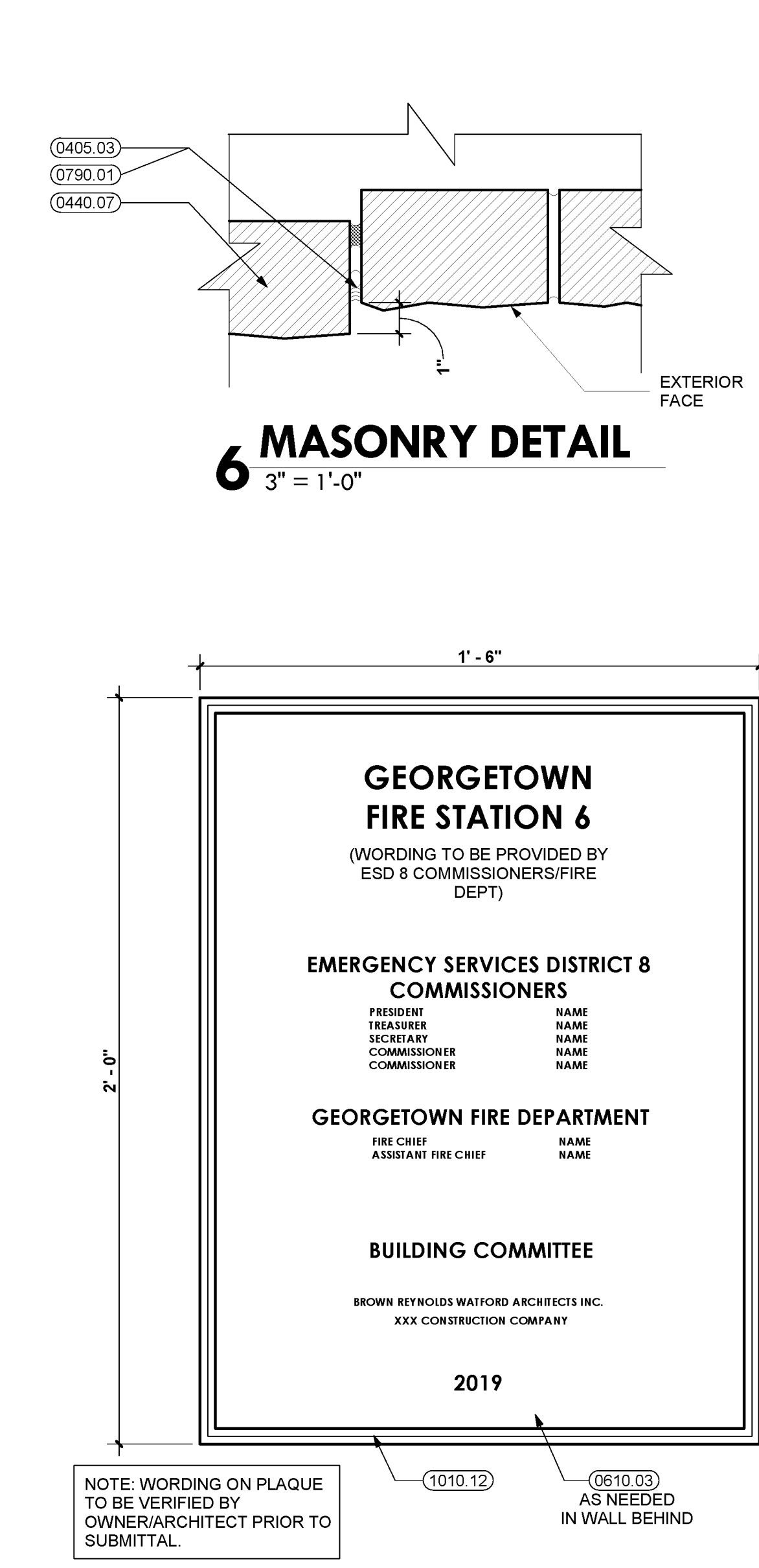
6 MASONRY DETAIL
 3" = 1'-0"



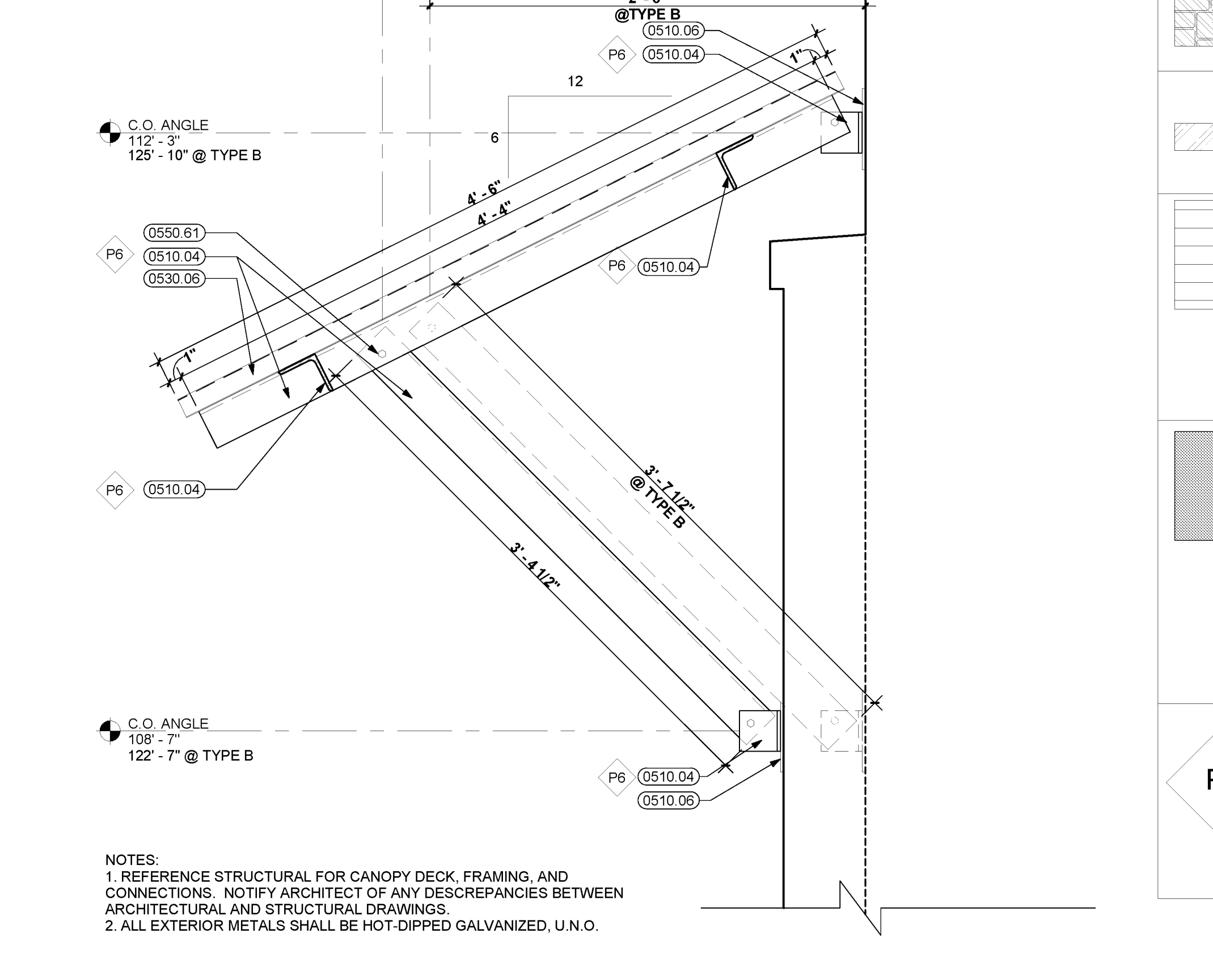
12 PARTIAL ELEVATION
 1 1/2" = 1'-0"



11 PARTIAL ELEVATION
 1/8" = 1'-0"



10 BUILDING PLAQUE
 3" = 1'-0"



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

SYMBOL	DESCRIPTION
	4" BUILDING STONE VENEER "FIREHOUSE BLEND" BY LEDBETTER BRICK & STONE CO. SAW CUT, RANDOM ASHLAR PATTERN
	SETBACK 4" BUILDING STONE VENEER "FIREHOUSE BLEND" BY LEDBETTER BRICK & STONE CO. SAW CUT, RANDOM ASHLAR PATTERN RE: 8/A2.1
	4" STONE BANDING, SILLS, HEADS "CAVE SELECT" BY LEDBETTER BRICK & STONE CO. SAW CUT, 2", 4", AND 6" HEIGHTS
	FIBER REINFORCED CEMENTITIOUS SIDING: LAP SIDING BY ALLURA, CEDAR LAP TEXTURE, 6" EXPOSURE, CEDAR STAIN FINISH
	SELF-ADHERING MODIFIED BITUMINOUS SHEET AIR BARRIER APPLIED TO SHEATHING AT ALL WALL-ABOVE-ROOF CONDITIONS. SPECIAL INSPECTION OF THE INSTALLED MODIFIED BITUMINOUS SHEET AIR BARRIER BY ARCHITECT IS REQUIRED PRIOR TO COVER-UP. RE: SPECIFICATION SECTION 07 27 13.
	EXTERIOR METAL PAINT FINISH KELLY MOORE "HAUTE COUTURE" KMA3
	SHOP PRIME ALL EXPOSED STEEL REFERENCE SPECIFICATION SECTION 099000 PAINTING FOR PAINT SCHEDULES

GEORGETOWN FIRE STATION 6
 (WORDING TO BE PROVIDED BY ESD 8 COMMISSIONERS/FIRE DEPT)

EMERGENCY SERVICES DISTRICT 8 COMMISSIONERS

PRESIDENT	NAME
TREASURER	NAME
SECRETARY	NAME
COMMISSIONER	NAME

GEORGETOWN FIRE DEPARTMENT

HW CHIEF ASSISTANT FIRE CHIEF NAME

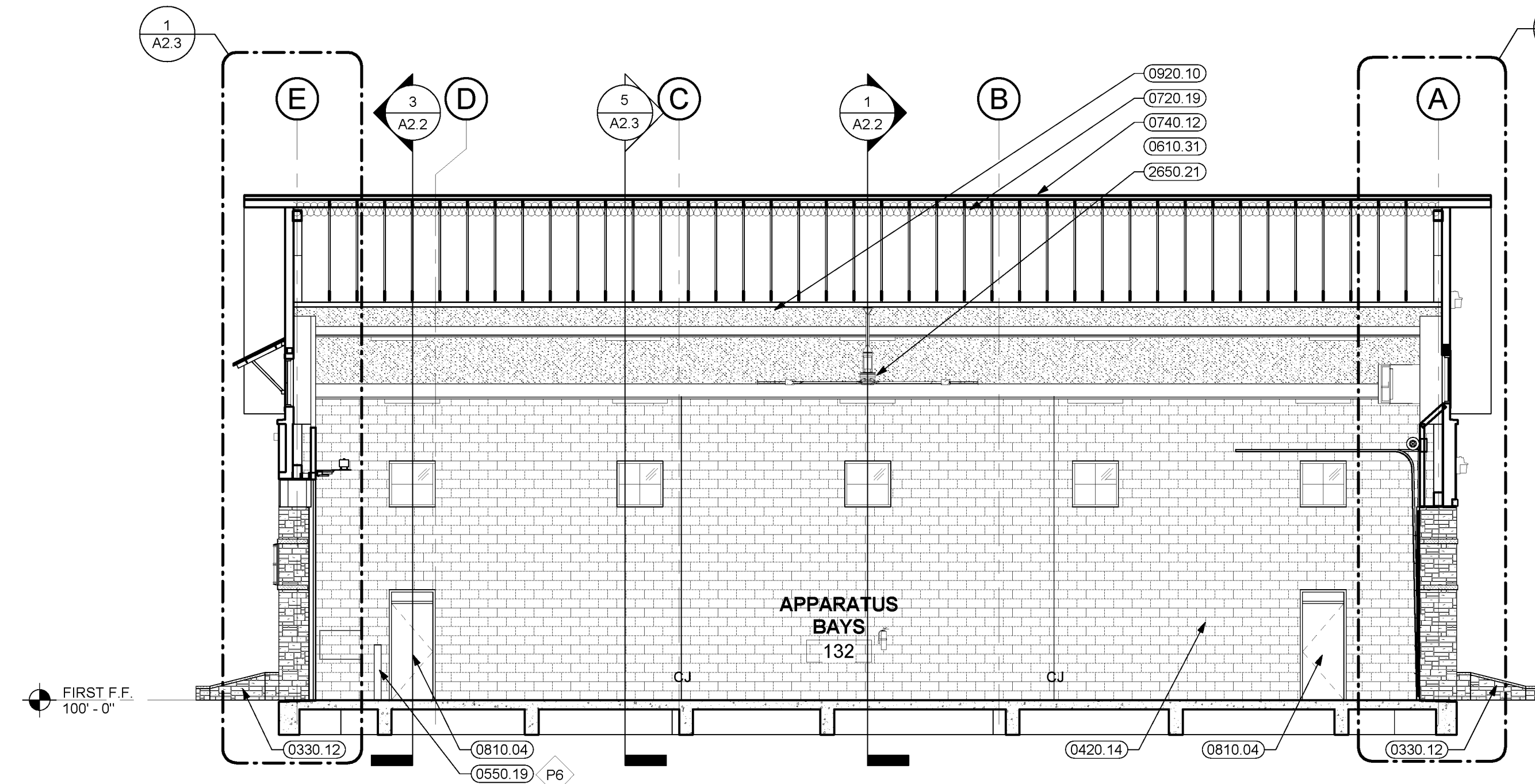
BUILDING COMMITTEE

BROWN REYNOLDS WATFORD ARCHITECTS, INC.
 XXX CONSTRUCTION COMPANY

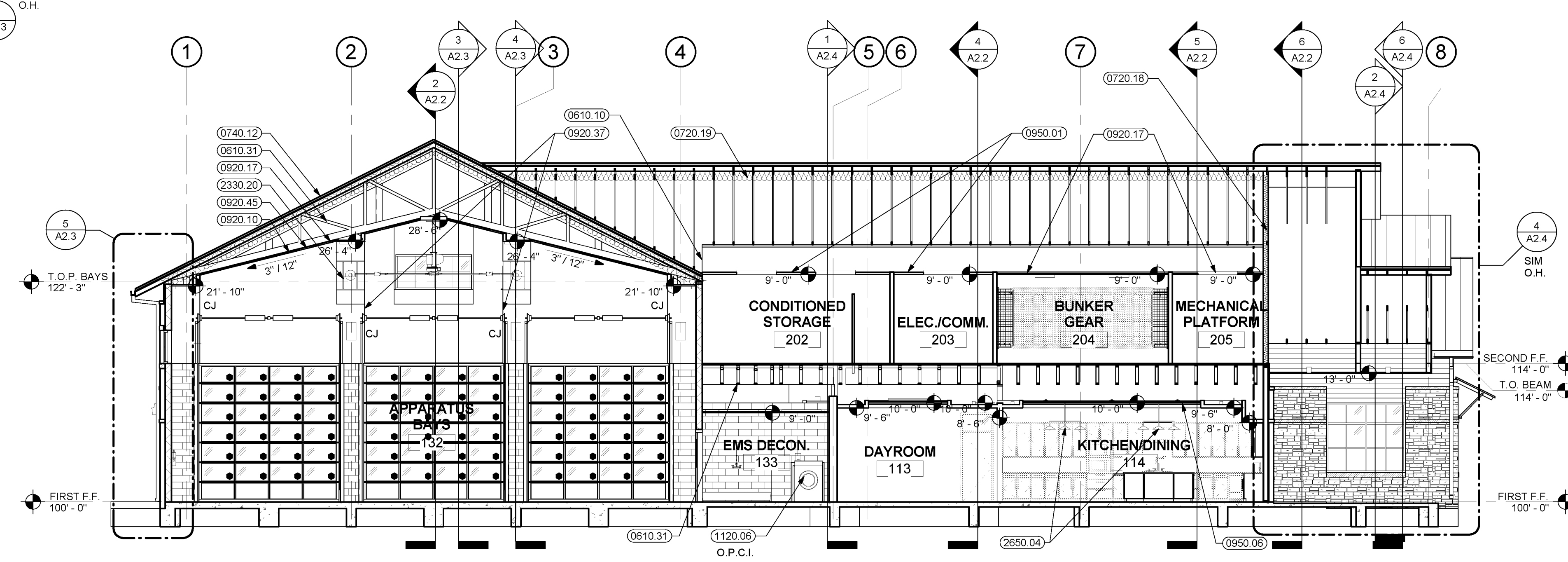
2019

NOTE: WORDINGS ON PLAQUE TO BE VERIFIED BY OWNER/ARCHITECT PRIOR TO SUBMITTAL.

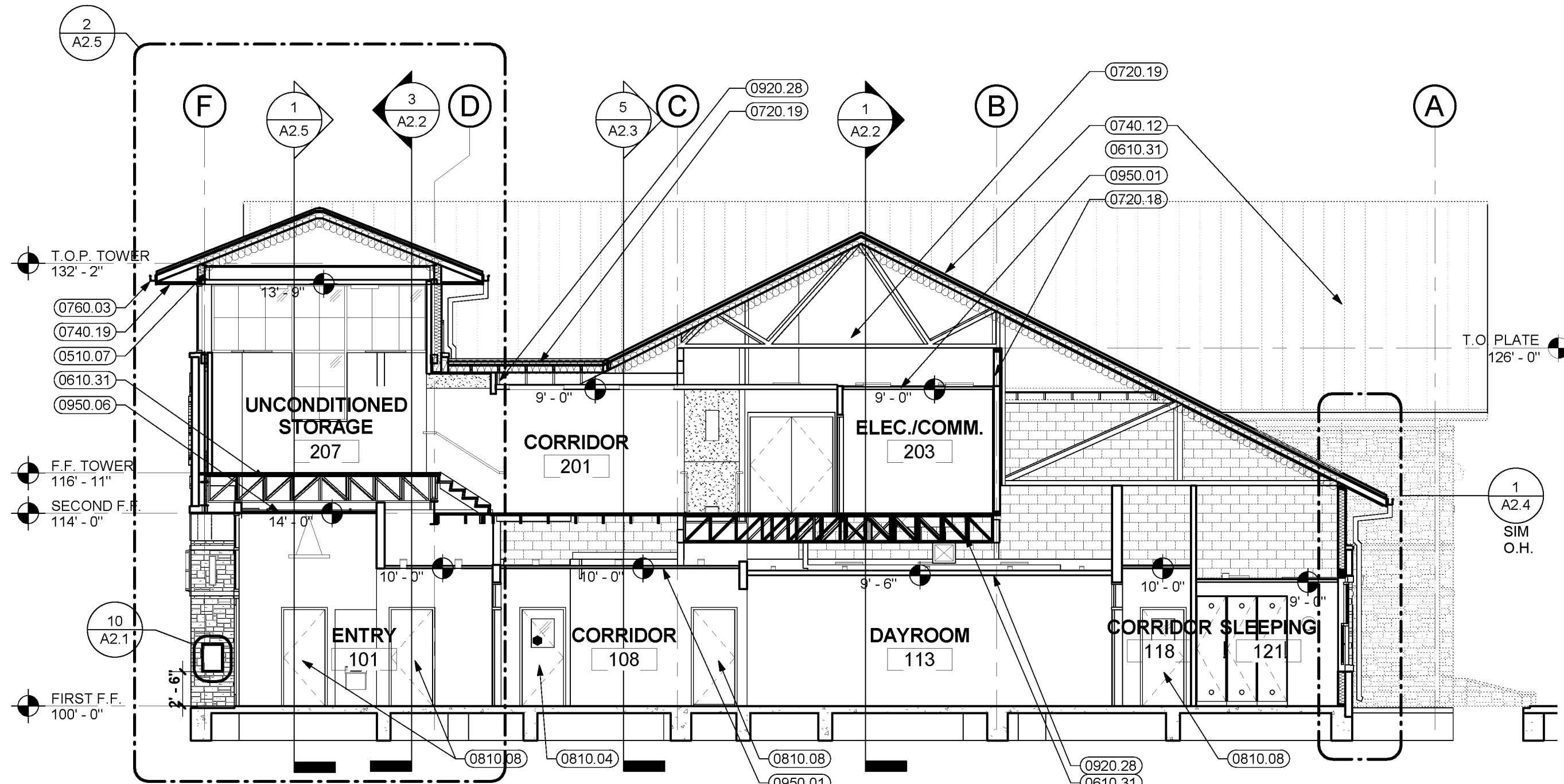
NOTES:
 1. REFERENCE STRUCTURAL FOR CANOPY DECK, FRAMING, AND CONNECTIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN ARCHITECTURAL AND STRUCTURAL DRAWINGS.
 2. ALL EXTERIOR METALS SHALL BE HOT-DIPPED GALVANIZED, U.N.O.



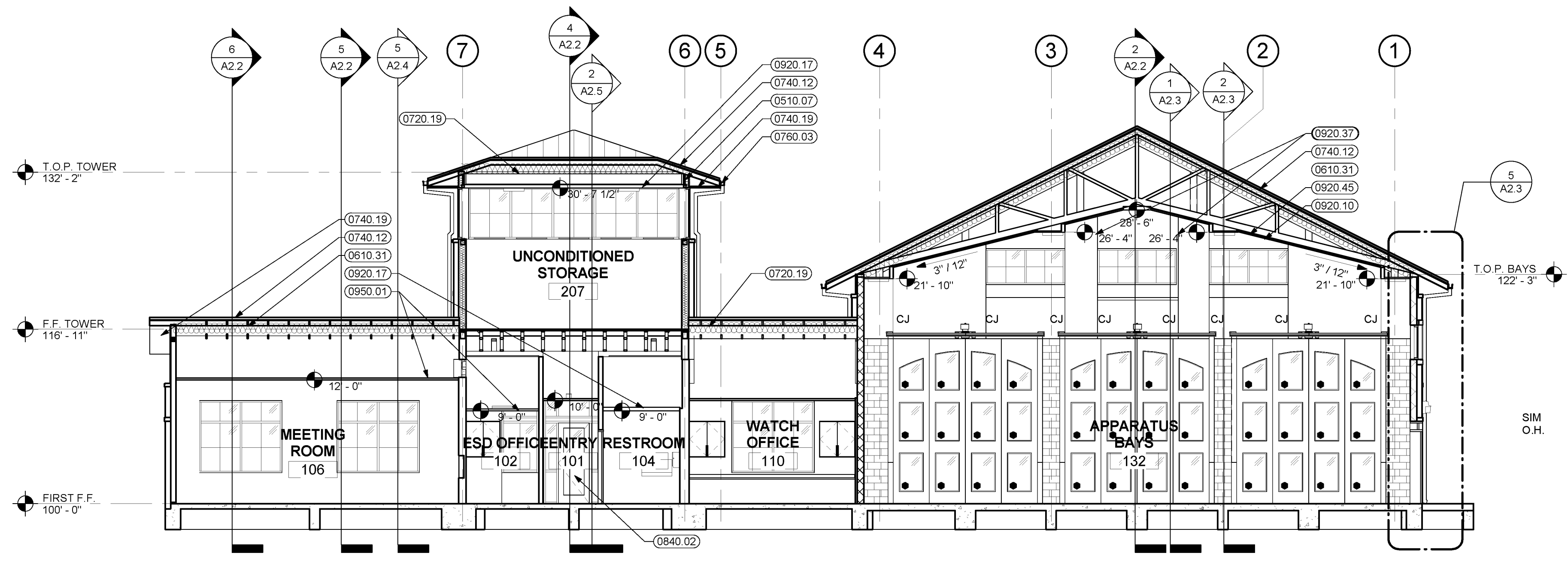
2 BUILDING SECTION
1/8" = 1'-0"



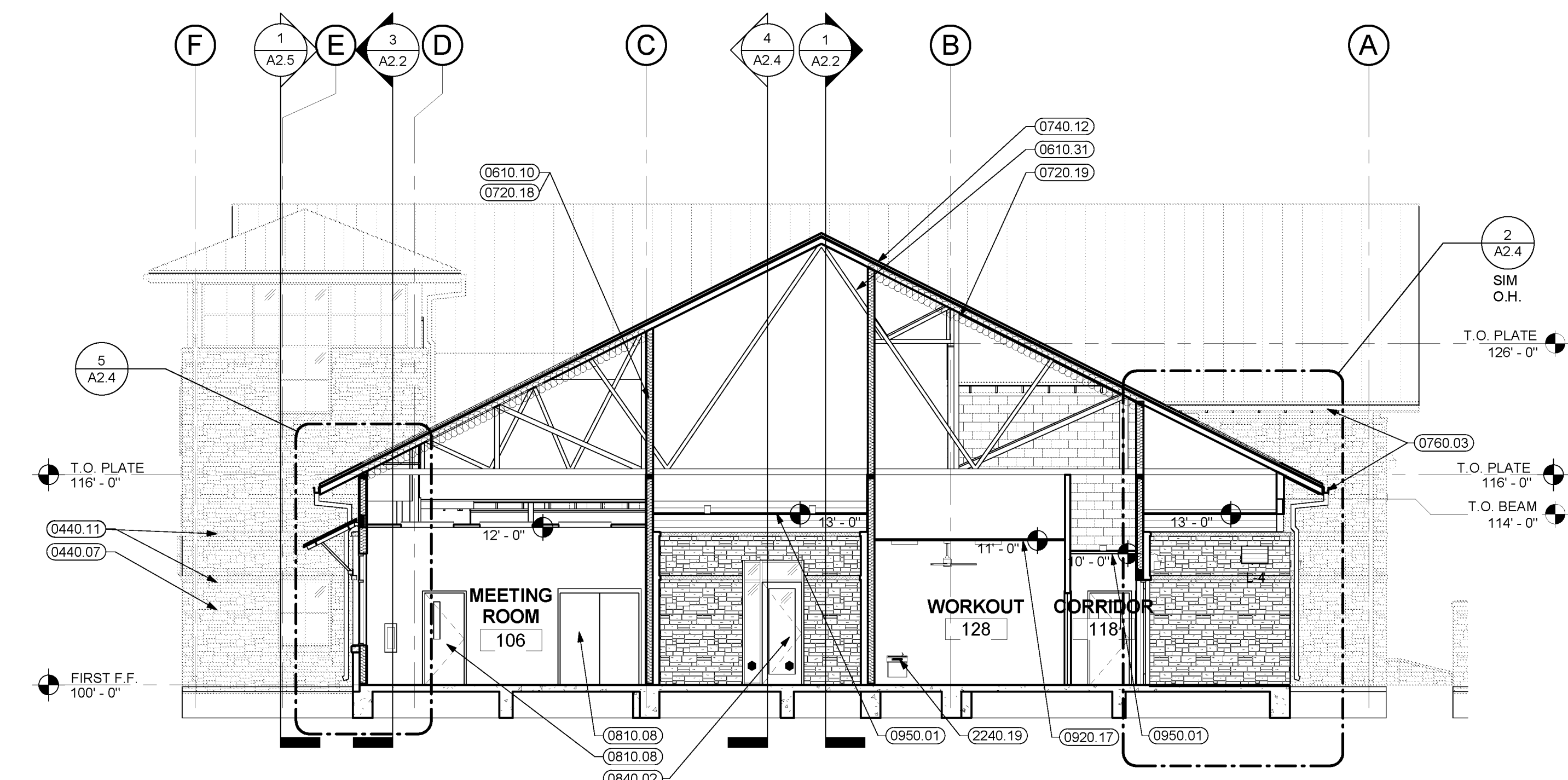
1 BUILDING SECTION
1/8" = 1'-0"



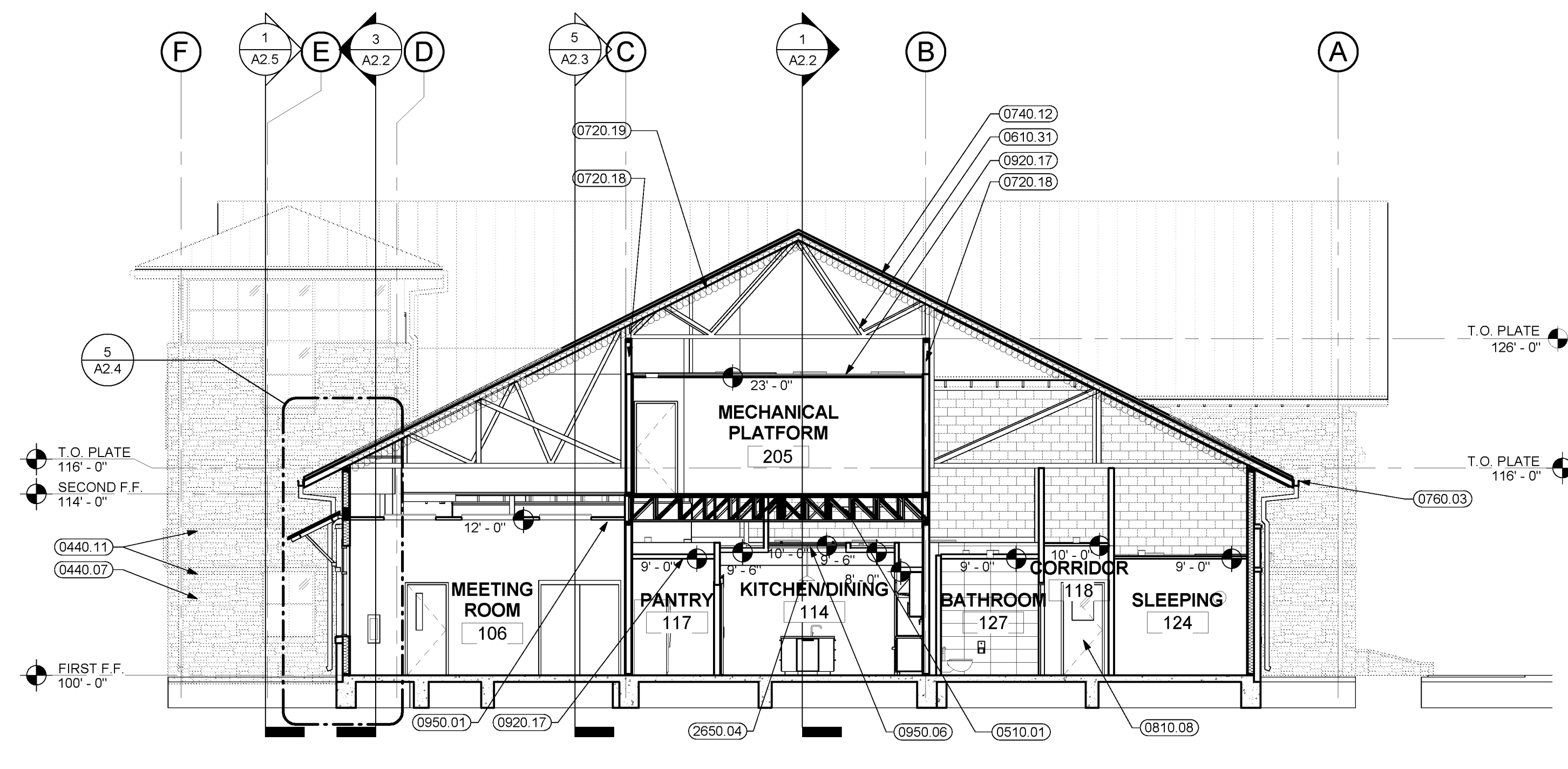
4 BUILDING SECTION
1/8" = 1'-0"



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



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



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

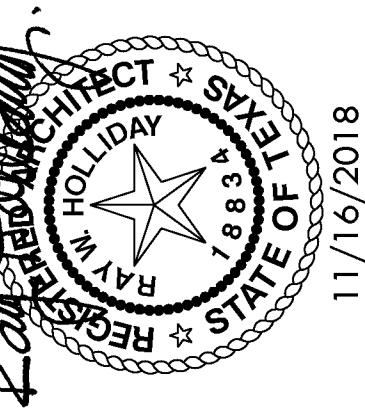
KEYNOTES

- 0330.12 CONCRETE BOLLARD
- 0420.14 8" CONCRETE MASONRY UNITS
- 0440.07 STONE VENEER
- 0440.11 4" CUT STONE
- 0510.01 STEEL STRUCTURE (RE. STRUCTURAL)
- 0510.07 STEEL BEAM (RE. STRUCTURAL)
- 0550.19 6" PIPE BOLLARD, FILL WITH CONCRETE
- 0610.10 2 X 6 WOOD STUDS AT 16" O.C.
- 0610.31 PREFABRICATED WOOD TRUSS (RE. STRUCTURAL)
- 0720.19 5 1/2" BATT INSULATION
- 0740.12 PREFINISHED METAL STANDING SEAM ROOFING
- 0740.19 FIBER REINFORCED CEMENTITIOUS VENTED SOFFIT PANEL AND TRIMS
- 0760.03 GALVANIZED METAL GUTTER
- 0810.04 HOLLOW METAL DOOR AND FRAME
- 0810.08 SOLID CORE WOOD DOOR
- 0840.02 ALUMINUM STOREFRONT DOOR
- 0920.10 7/8" FURRING CHANNEL AT 16" O.C.
- 0920.17 5/8" GYPSUM BOARD ON METAL SUSPENSION SYSTEM
- 0920.28 5/8" GYPSUM BOARD (TYPE X)
- 0920.37 GYPSUM BOARD CONTROL JOINT
- 0920.45 5/8" GYPSUM BOARD MOISTURE RESISTANT (TYPE X)
- 0950.01 SUSPENDED ACOUSTICAL LAY-IN TILE CEILING (2 X 2)
- 0950.06 SUSPENDED LINEAR WOOD CEILING SYSTEM
- 1120.06 CLOTHES EXTRACTOR
- 2240.19 WATER FOUNTAIN
- 2330.20 EXHAUST FAN WITH GALVANIZED STEEL CABLE SUPPORT SYSTEM (RE. MECHANICAL)
- 2650.04 PENDANT LIGHT FIXTURE
- 2650.21 CEILING FAN

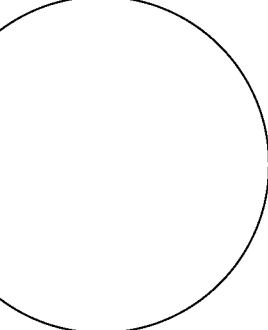
NOTE:

DASHED LINE INDICATES 1/2" TYPE X GYPSUM WITH LEVEL 2 FINISH CONTINUOUS AT THERMAL ENVELOPE, WHERE CEILING IS NOT ATTACHED DIRECTLY TO B.O. STRUCTURE

ROUTE ALL HVAC DUCTWORK BLOW THE DASHED LINE / THERMAL ENVELOPE



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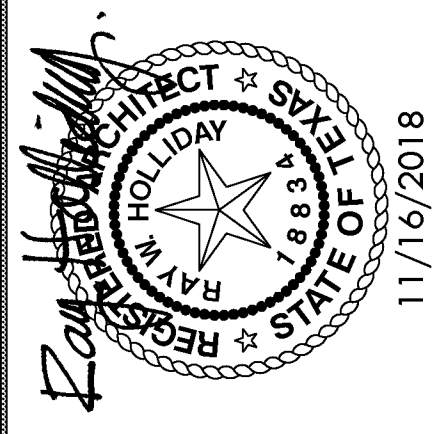


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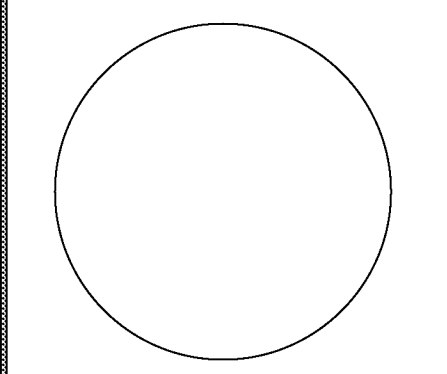
**CITY OF GEORGETOWN
FIRE STATION No. 6**
6700 R.M. 2338
GEORGETOWN, TX, 78633

NO.	REVISION	DATE

A2.2



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NO. _____ DATE _____
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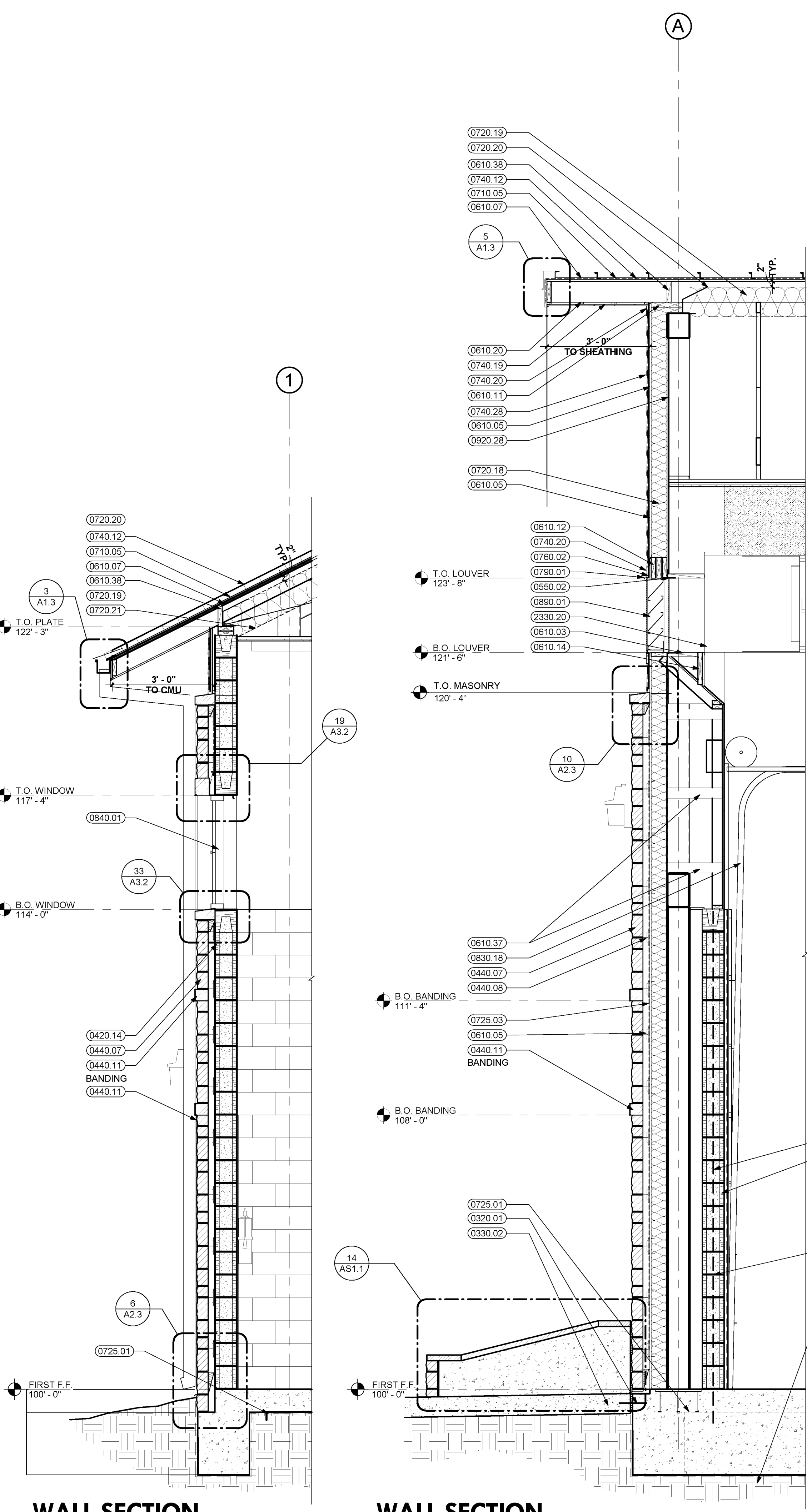
NO.	REVISION	DATE

A2.3

WALL SECTIONS

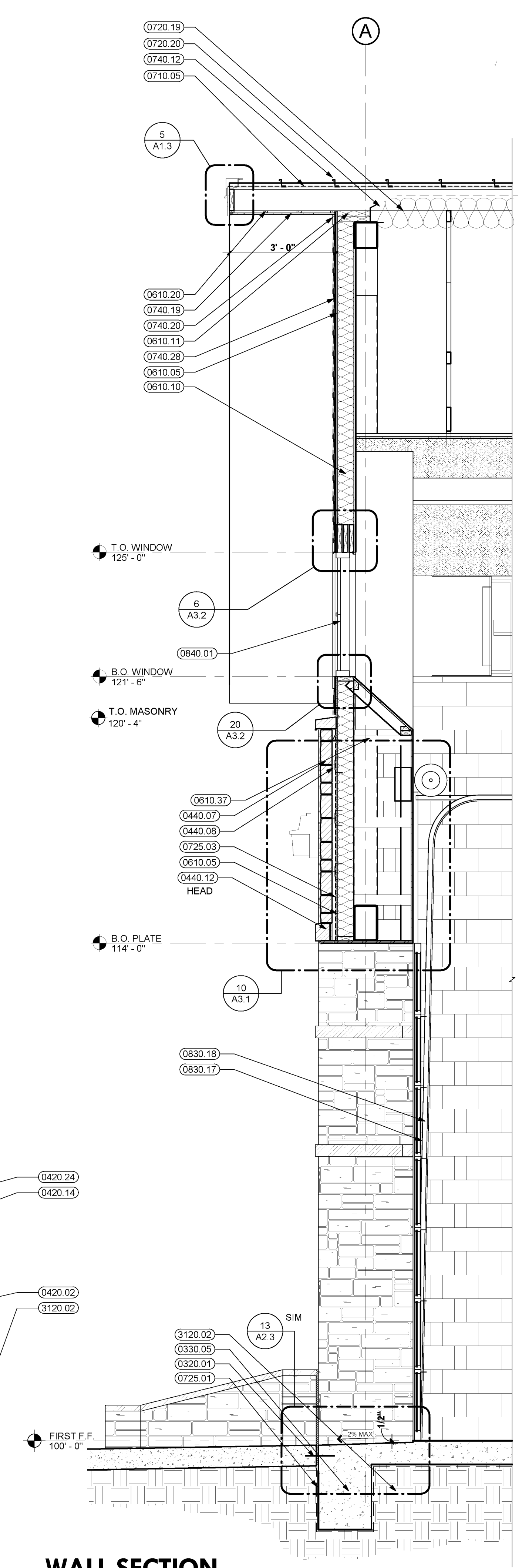
KEYNOTES

- 0320.01 DOWEL INTO CONCRETE SLAB
- 0330.02 CONCRETE SLAB (RE: STRUCTURAL)
- 0330.06 CONCRETE GRADE BEAM (RE: STRUCTURAL)
- 0330.23 ANCHOR BOLT
- 0360.03 FILL WITH GROUT
- 0420.01 ADJUSTABLE MASONRY WALL TIES AT 16" O.C. VERTICALLY
- 0420.02 4" CONCRETE MASONRY UNITS
- 0420.14 8" CONCRETE MASONRY UNITS
- 0420.24 VERTICAL REINFORCING IN CONCRETE MASONRY UNITS (RE: STRUCTURAL)
- 0440.07 STONE VENEER
- 0440.08 ADJUSTABLE MASONRY WALL TIES AT 16" O.C. V.C.
- 0440.11 6" CUT STONE
- 0440.12 4" CUT STONE
- 0470.05 CAST STONE SILL WITH DRIP
- 0510.03 STEEL TUBE COLUMN (RE: STRUCTURAL)
- 0510.06 STEEL LINTEL / PLATE (RE: STRUCTURAL)
- 0510.07 STEEL BEAM (RE: STRUCTURAL)
- 0550.02 3" X 3" X 1/4" STEEL ANGLE
- 0550.24 GALVANIZED METAL CANOPY
- 0610.01 SHIM AS REQUIRED
- 0610.03 2X WOOD BLOCKING
- 0610.05 1/2" EXTERIOR GRADE PLYWOOD
- 0610.07 3/4" EXTERIOR GRADE PLYWOOD
- 0610.09 2 X 4 WOOD STUDS AT 16" O.C.
- 0610.10 2 X 6 WOOD STUDS AT 16" O.C.
- 0610.11 2 X 6 WOOD FRAMING
- 0610.12 2 X 8 WOOD FRAMING
- 0610.14 2 X 12 WOOD FRAMING
- 0610.17 METAL HANGER
- 0610.20 1" WOOD FLUSTRING STRIP
- 0610.25 GLUE-LAMINATED BEAM (RE: STRUCTURAL)
- 0610.31 PREFABRICATED WOOD TRUSS (RE: STRUCTURAL)
- 0610.32 2X WOOD FRAMING (RE: STRUCTURAL)
- 0610.38 2X VENTILATED BLOCKING (RE: STRUCTURAL)
- 0610.39 2X VENTILATED BLOCKING (RE: STRUCTURAL)
- 0710.01 BITUMINOUS DAMPROOFING
- 0710.05 ROOFING UNDERLAYMENT
- 0720.18 5 1/2" BATT INSULATION
- 0720.19 BATT INSULATION (R-38 @ ATTIC/CEILING)
- 0720.20 INSULATION BAFFLE
- 0720.21 WIRE MESH NETTING
- 0725.01 UNDERSLAB VAPOR BARRIER
- 0725.02 SELF-ADHERING MODIFIED BITUMINOUS SHEET AIR BARRIER
- 0725.03 PLASTIC FILM AIR BARRIER
- 0725.05 SELF-ADHERING FLEXIBLE SURROUND FLASHING
- 0740.12 PREFINISHED METAL STANDING SEAM ROOFING
- 0740.19 FIBER REINFORCED CEMENTITIOUS VENTED SOFFIT PANEL AND TRIMS
- 0740.20 FIBER REINFORCED CEMENTITIOUS TRIM
- 0740.28 FIBER REINFORCED CEMENTITIOUS SIDING
- 0740.31 FIBER REINFORCED CEMENTITIOUS SOFFIT PANEL AND TRIMS
- 0780.01 THROUGH-WALL FLASHING (WITH WEEPS AT 2'-0" O.C.) AND MORTAR NET
- 0780.02 THROUGH-WALL FLASHING (WITH WEEPS AT 2'-0" O.C.)
- 0780.31 SILL SEALER
- 0780.36 GALVANIZED METAL FLASHING
- 0790.01 SEALANT WITH BACKER ROD AS REQUIRED
- 0830.17 UPWARD-ACTING SECTIONAL DOOR
- 0830.18 UPWARD-ACTING SECTIONAL DOOR TRACK
- 0830.26 ELECTRIC OPERATED FOLDING DOORS
- 0840.01 ALUMINUM STOREFRONT
- 0880.01 PREFINISHED FIXED ALUMINUM LOUVER (WITH INSECT SCREEN)
- 0920.10 7/8" FLUSTRING CHANNEL AT 16" O.C.
- 0920.28 5/8" GYPSUM BOARD (TYPE X)
- 0920.38 PRE-MANUFACTURED CONTINUOUS ALUMINUM F REVEAL MOLDING
- 0960.13 4" RESILIENT BASE
- 2330.20 EXHAUST FAN WITH GALVANIZED STEEL CABLE SUPPORT SYSTEM (RE: MECHANICAL)
- 2650.19 EXTERIOR LIGHT FIXTURE
- 3120.01 GRADE
- 3120.02 COMPACTED SELECT FILL

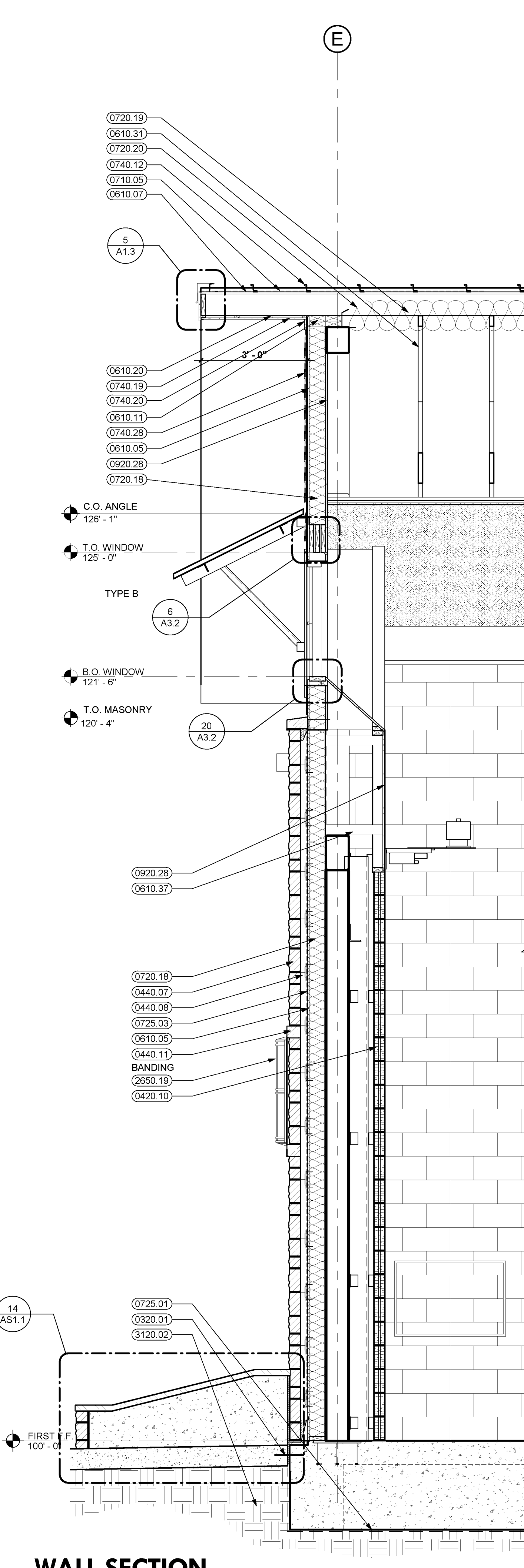


5 WALL SECTION
1/2" = 1'-0"

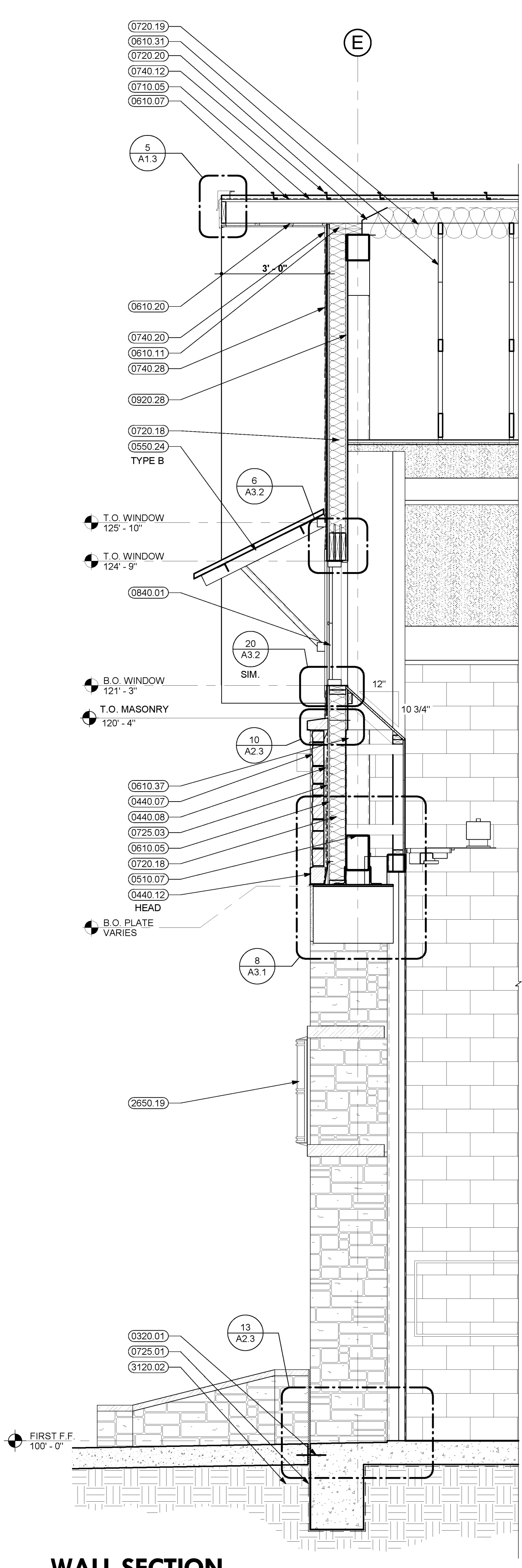
4 WALL SECTION
1/2" = 1'-0"



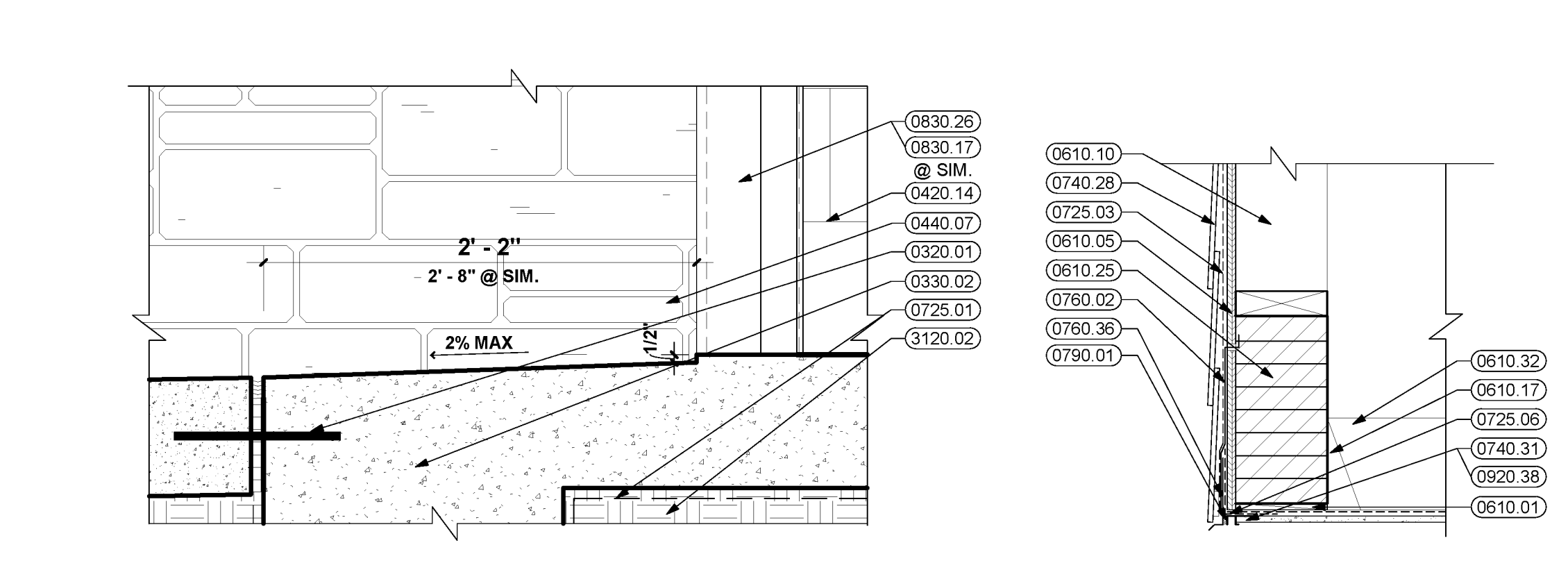
3 WALL SECTION
1/2" = 1'-0"



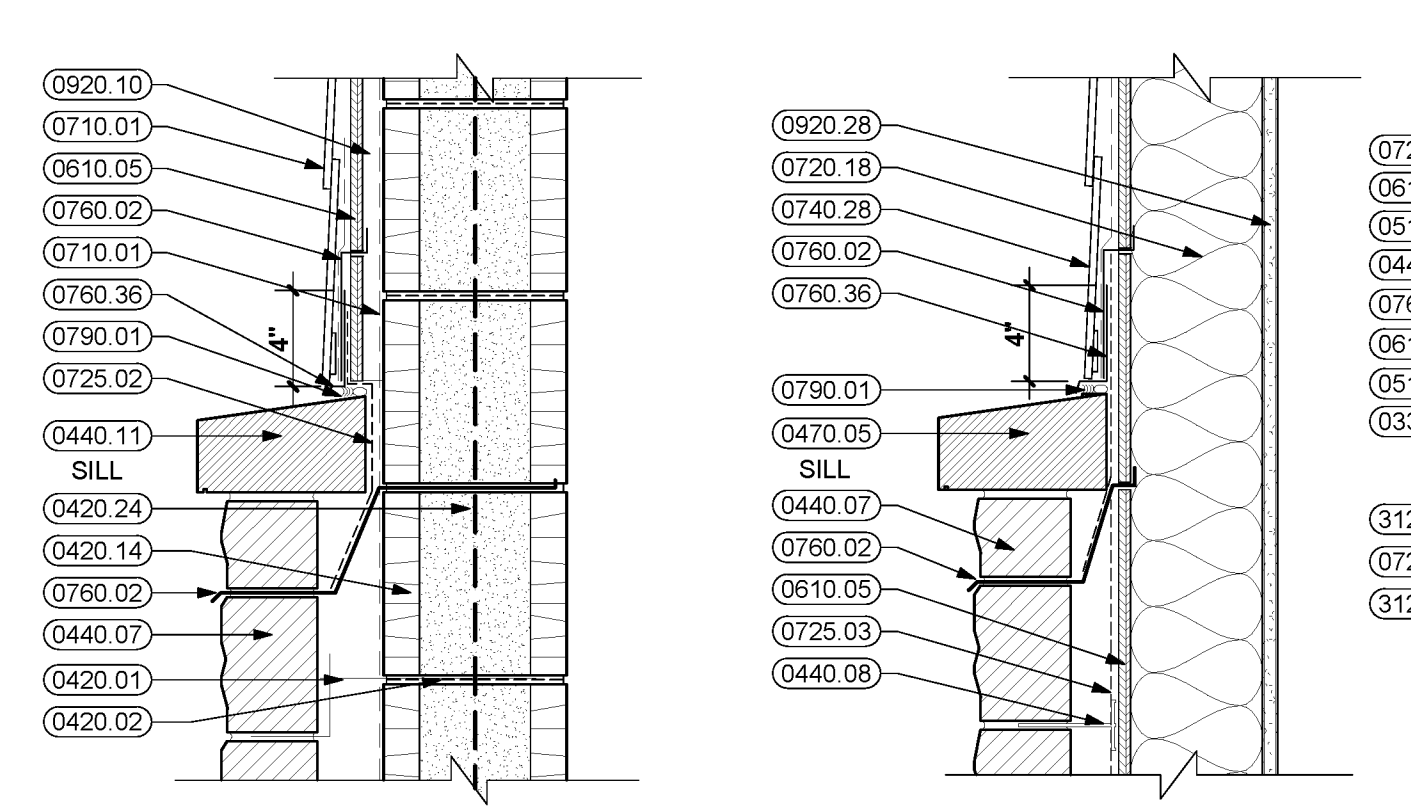
2 WALL SECTION
1/2" = 1'-0"



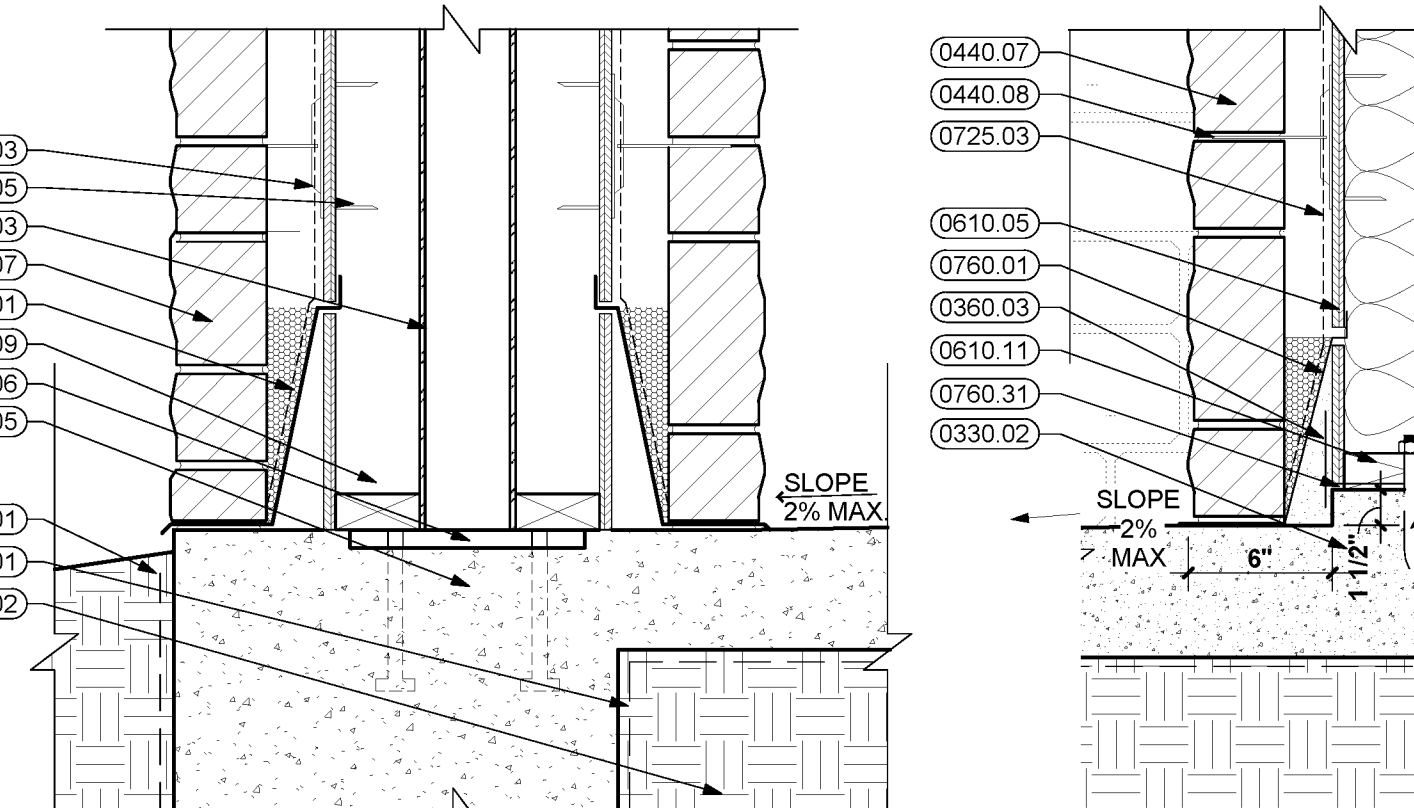
1 WALL SECTION
1/2" = 1'-0"



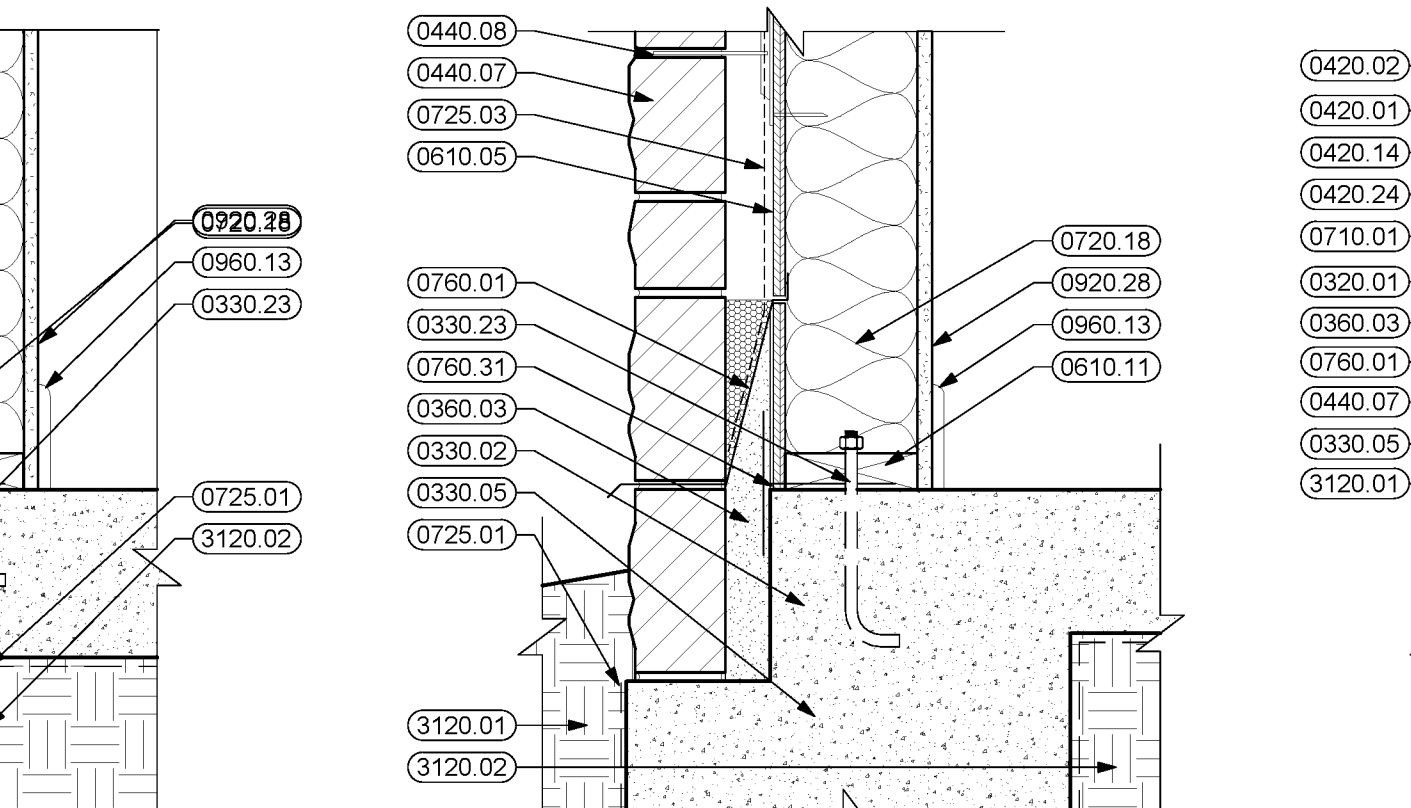
13 SECTION DETAIL
1 1/2" = 1'-0"



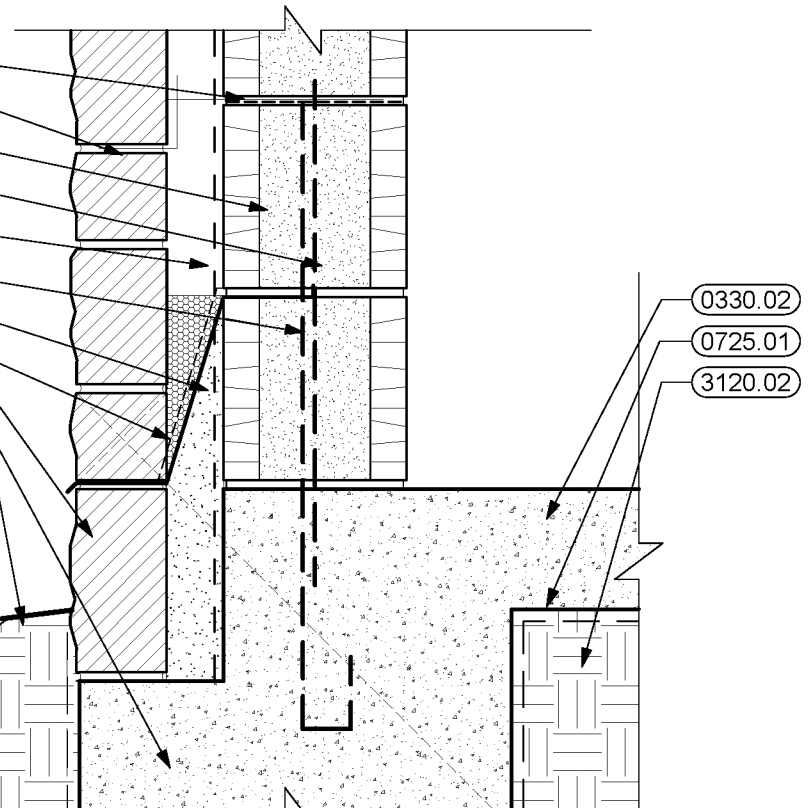
12 SECTION DETAIL
1 1/2" = 1'-0"



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

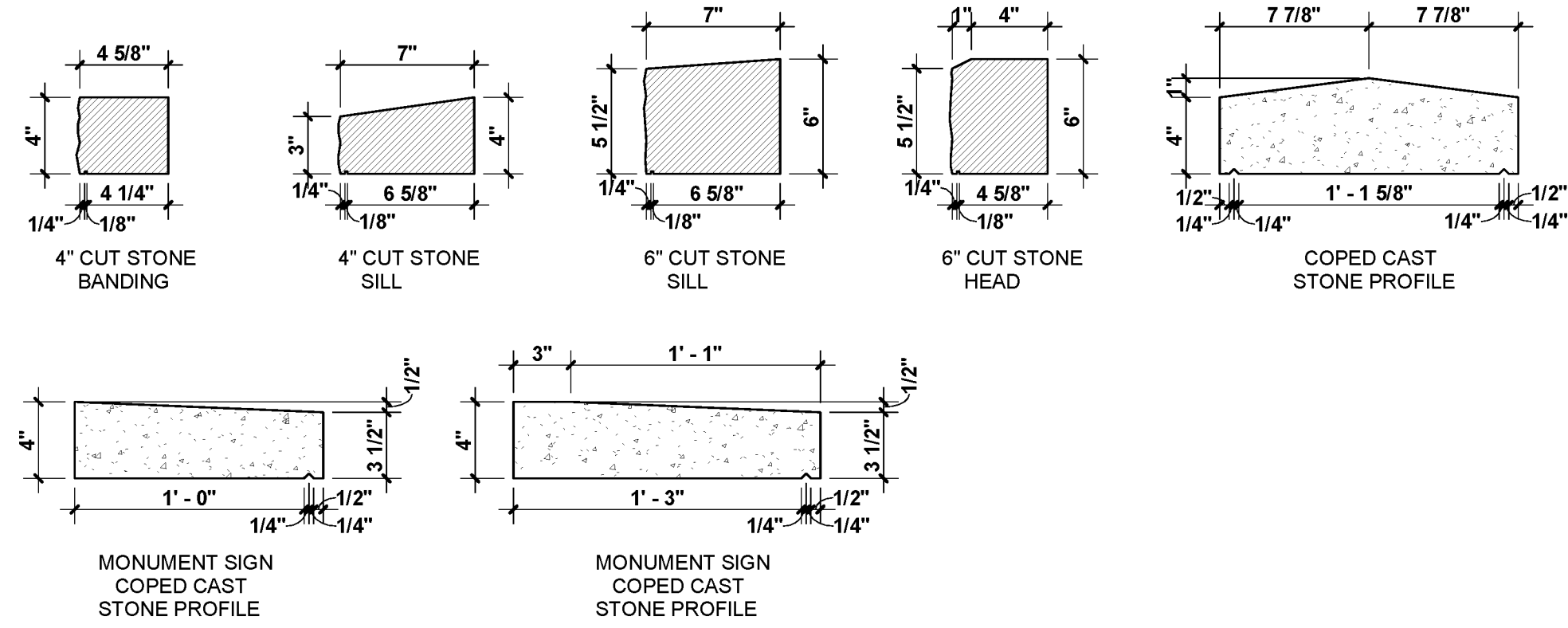


10 SECTION DETAIL
1 1/2" = 1'-0"

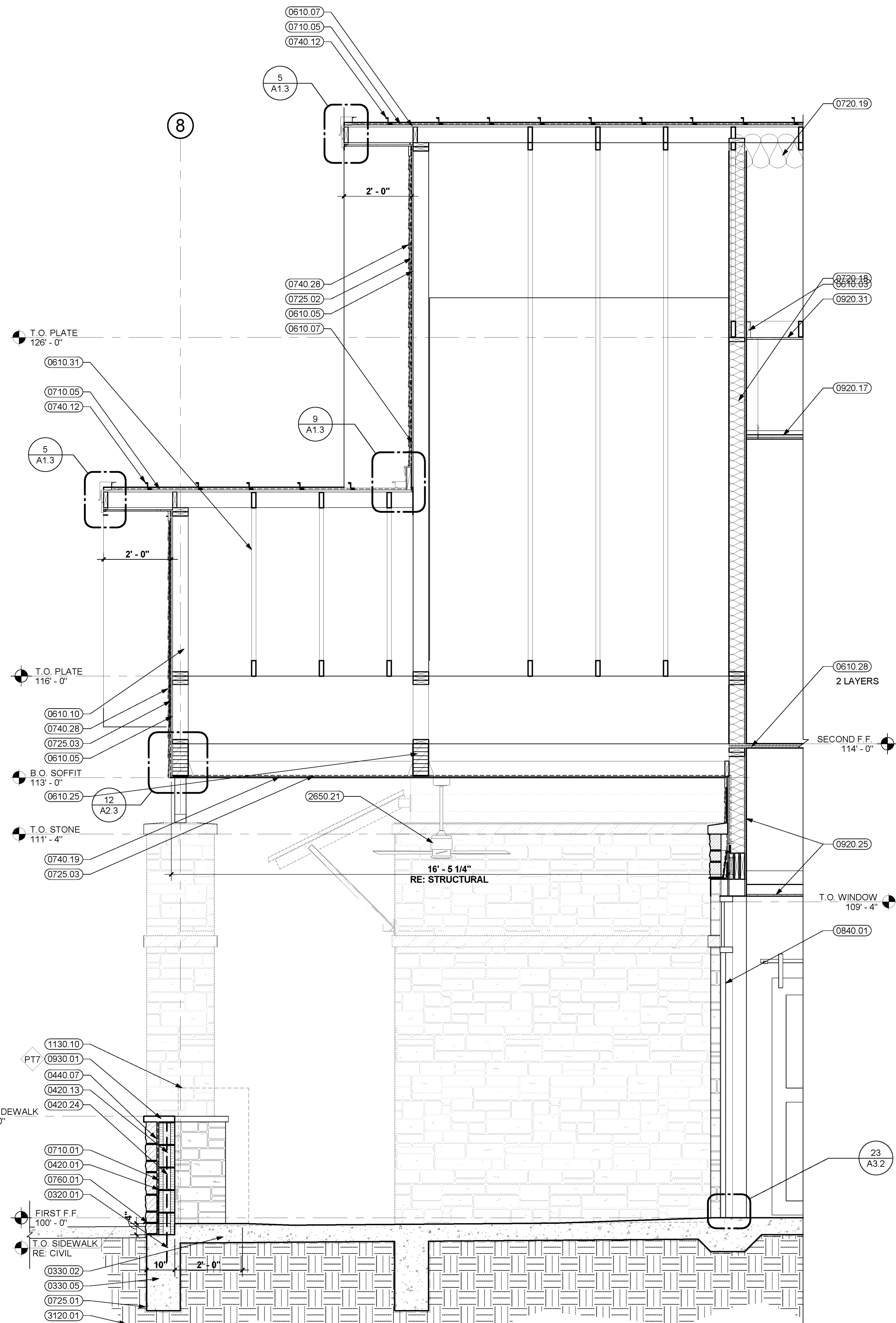


9 SECTION DETAIL
1 1/2" = 1'-0"

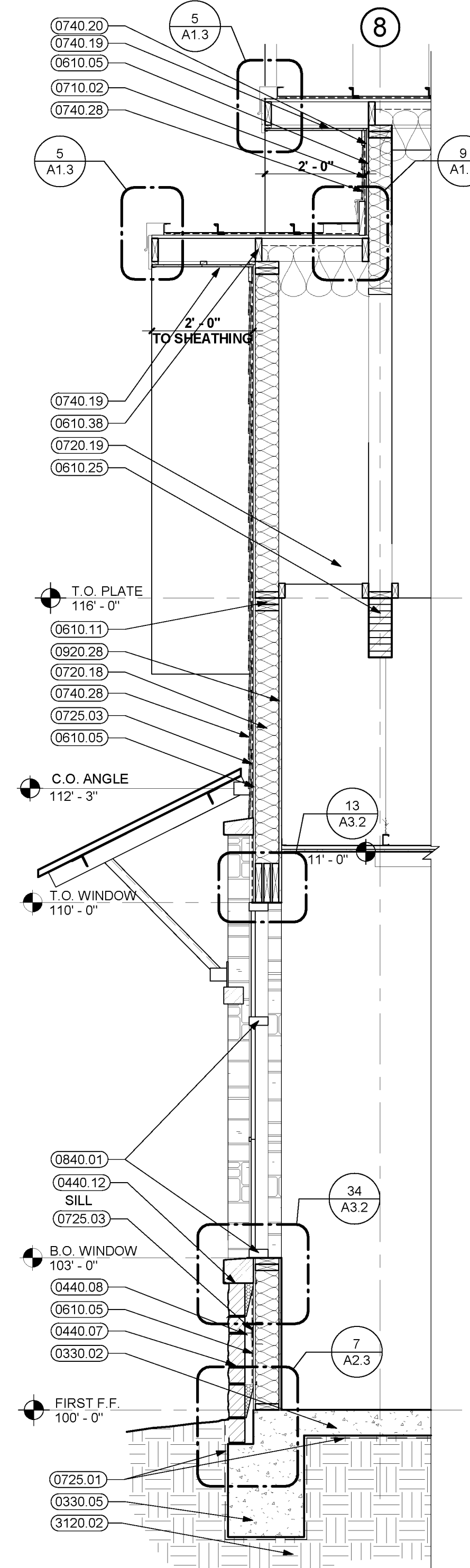
WALL SECTIONS



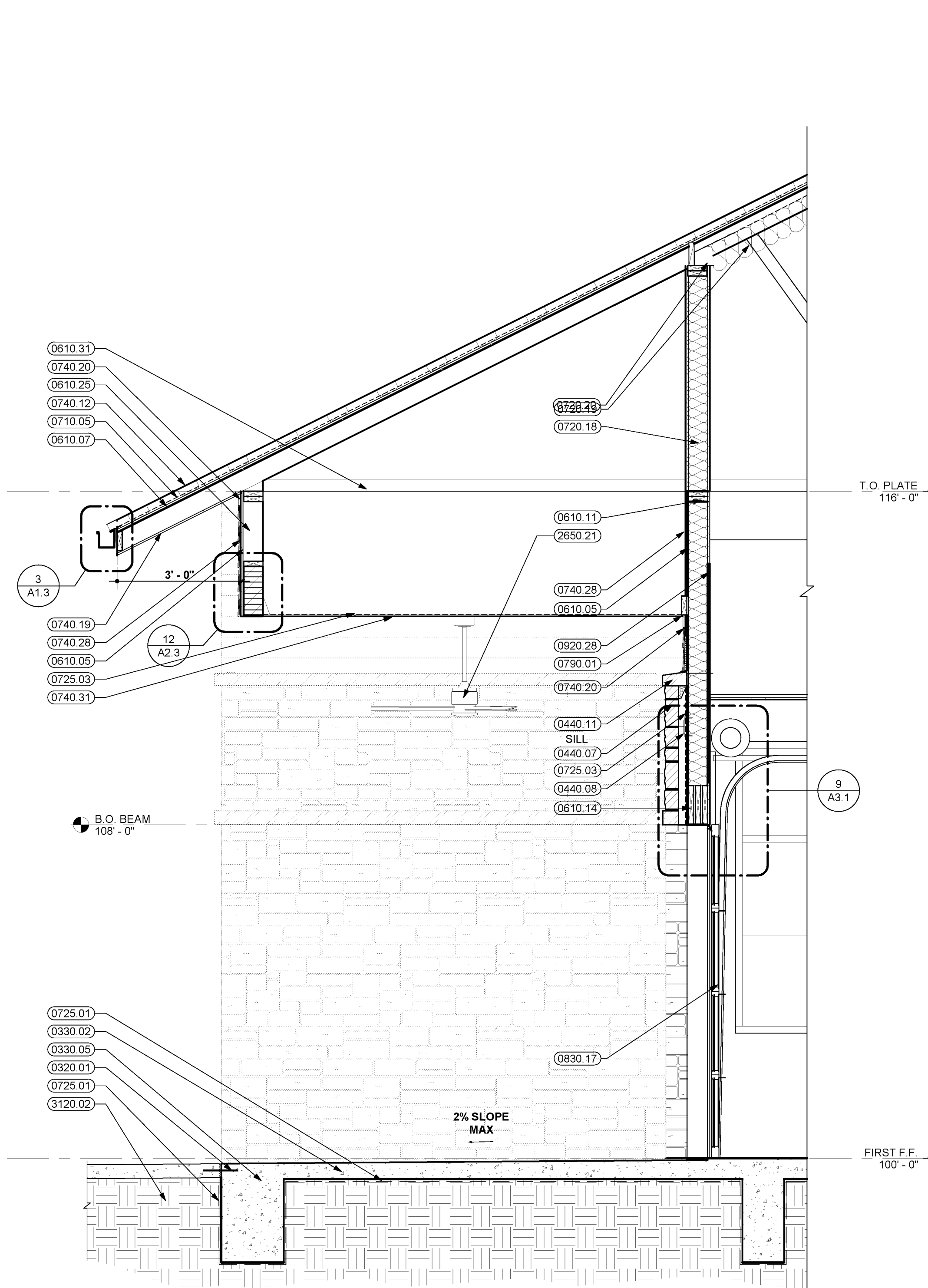
7 STONE PROFILES-CAST/CUT
1 1/2" = 1'-0"



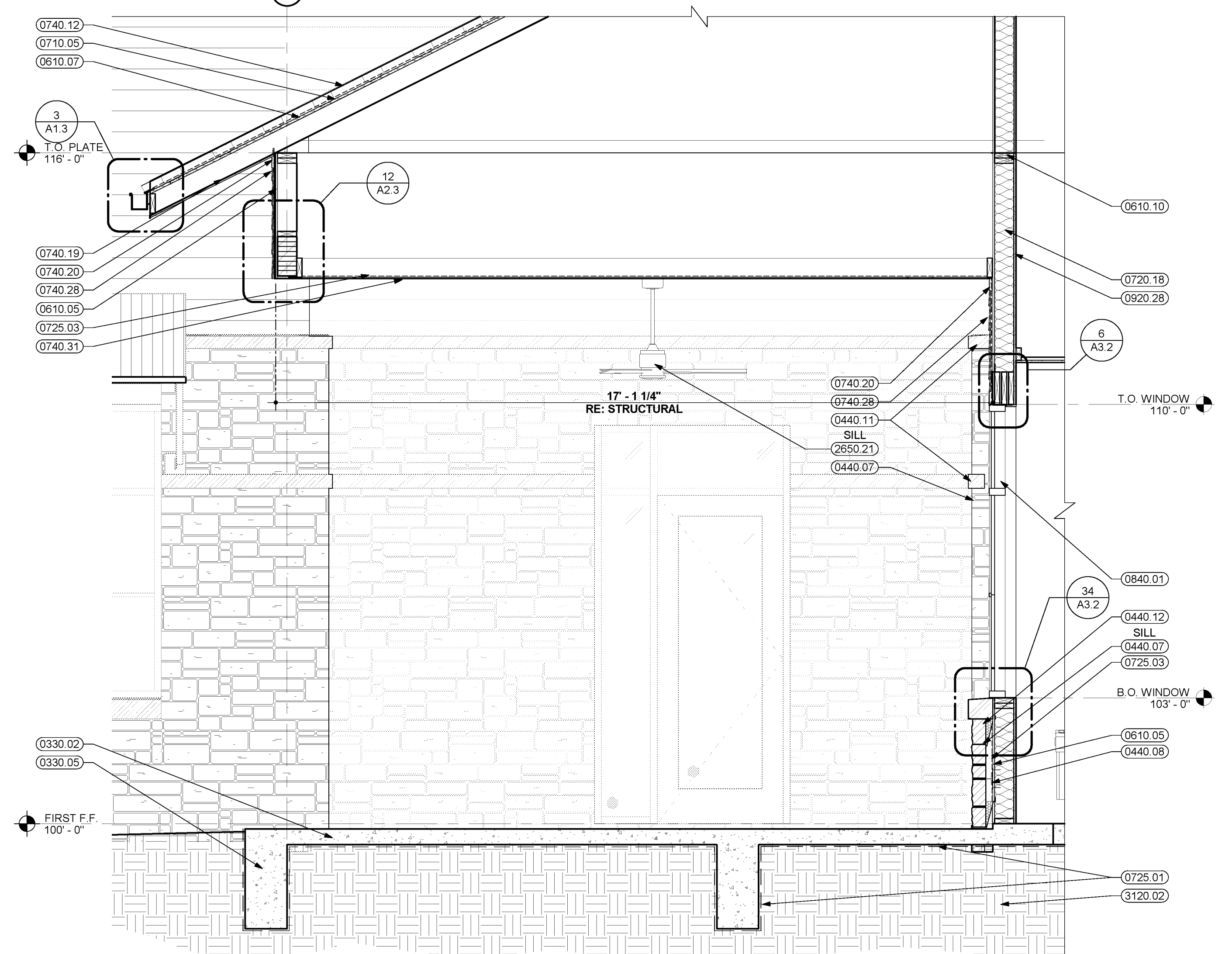
4 WALL SECTION
1/2" = 1'-0"



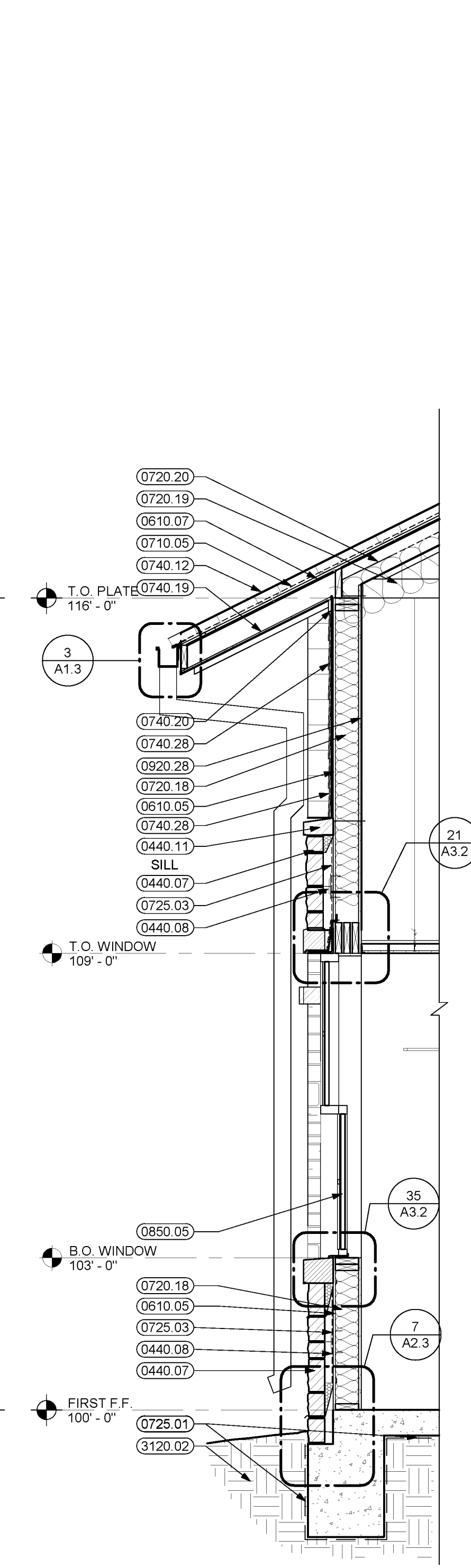
3 WALL SECTION
1/2" = 1'-0"



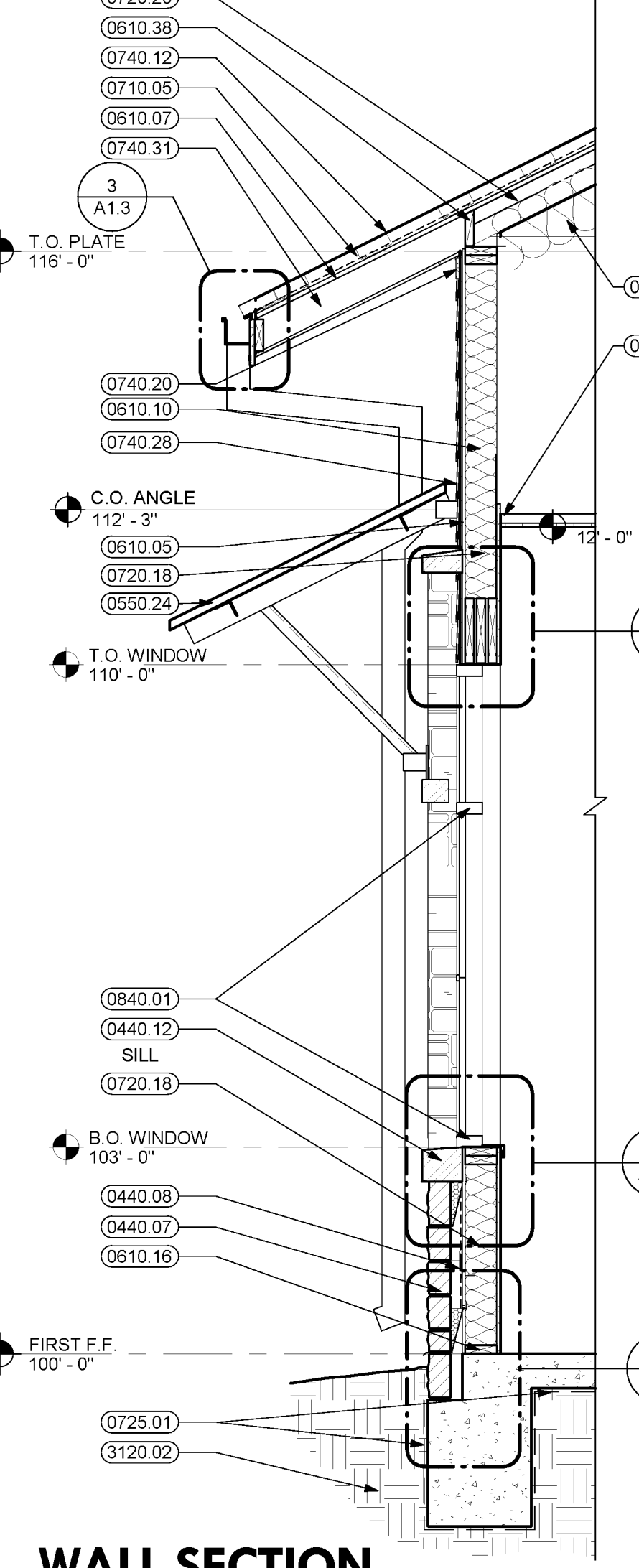
2 WALL SECTION
1/2" = 1'-0"



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

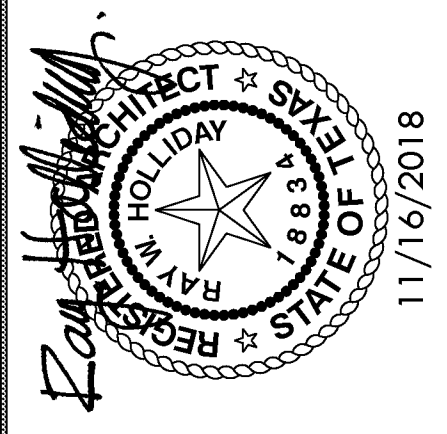


1 WALL SECTION
1/2" = 1'-0"

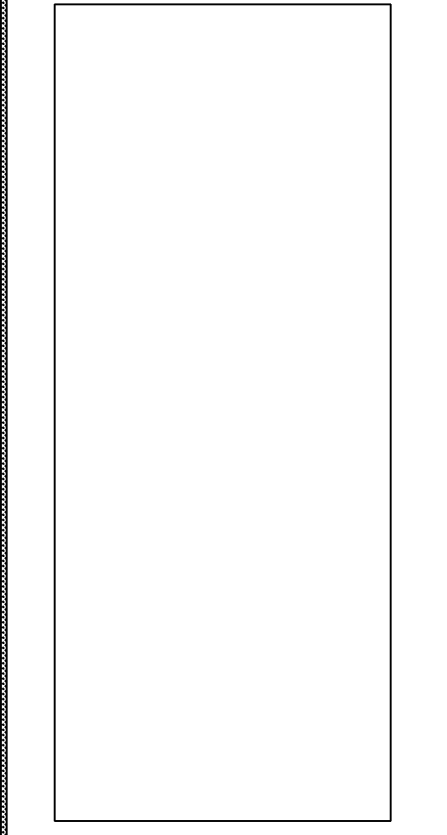
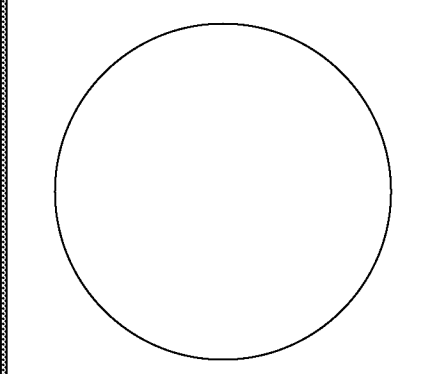


5 WALL SECTION
1/2" = 1'-0"

- KEYNOTES**
- 0320 01 DOWEL INTO CONCRETE SLAB
 - 0330 02 CONCRETE SLAB (RE: STRUCTURAL)
 - 0330 05 CONCRETE GRADE BEAM (RE: STRUCTURAL)
 - 0420 01 ADJUSTABLE MASONRY WALL TIES AT 16" O.C.E.W.
 - 0420 13 6" CONCRETE MASONRY UNITS
 - 0420 24 VERTICAL REINFORCING IN CONCRETE MASONRY UNITS (RE: STRUCTURAL)
 - 0440 07 STONE VENEER
 - 0440 08 ADJUSTABLE MASONRY WALL TIES AT 16" O.C.E.W.
 - 0440 11 4" CUT STONE
 - 0440 12 6" CUT STONE
 - 0550 24 GALVANIZED METAL CANOPY
 - 0610 03 2X WOOD BLOCKING
 - 0610 05 1/2" EXTERIOR GRADE PLYWOOD
 - 0610 07 3/4" EXTERIOR GRADE PLYWOOD
 - 0610 10 2 X 6 WOOD STUDS AT 16" O.C.
 - 0610 11 2 X 6 WOOD FRAMING
 - 0610 14 2 X 12 WOOD FRAMING
 - 0610 16 WOOD SILL PLATE
 - 0610 25 GLUE-LAMINATED BEAM (RE: STRUCTURAL)
 - 0610 28 3/4" PLYWOOD
 - 0610 31 PREFABRICATED WOOD TRUSS (RE: STRUCTURAL)
 - 0710 01 BITUMINOUS DAMPPROOFING
 - 0710 02 SELF-ADHERING SHEET WATERPROOFING MEMBRANE AND DRAINAGE COURSE
 - 0710 05 ROOFING UNDERLAYMENT
 - 0720 18 5 1/2" BATT INSULATION
 - 0720 19 BATT INSULATION R-38 @ ATTIC/CEILING
 - 0720 20 INSULATION Baffle
 - 0725 01 SELF-ADHERING MODIFIED BITUMINOUS SHEET AIR BARRIER
 - 0725 02 PLASTIC FILM AIR BARRIER
 - 0740 12 PREFINISHED METAL STANDING SEAM ROOFING
 - 0740 19 FIBER REINFORCED CEMENTITIOUS VENTED SOFFIT PANEL AND TRIMS
 - 0740 20 FIBER REINFORCED CEMENTITIOUS TRIM
 - 0740 28 FIBER REINFORCED CEMENTITIOUS SIDING
 - 0740 31 FIBER REINFORCED CEMENTITIOUS SOFFIT PANEL AND TRIMS
 - 0760 01 THROUGH-WALL FLASHING (WITH WEEPS AT 2'-0" O.C.) AND MORTAR NET
 - 0790 01 SEALANT WITH BACKER ROD AS REQUIRED
 - 0830 17 UPWARD-ACTING SECTIONAL DOOR
 - 0840 01 ALUMINUM STOREFRONT
 - 0850 05 ALUMINUM SINGLE-HUNG WINDOW
 - 0920 17 5/8" GYPSUM BOARD ON METAL SUSPENSION SYSTEM
 - 0920 25 ALUMINUM "Z" REGLET
 - 0920 28 5/8" GYPSUM BOARD (TYPE X)
 - 0920 31 1/2" GYPSUM BOARD (TYPE X) AT BOTTOM CHORD OF ROOF TRUSS, TYPICAL U.N.O.
 - 0930 01 PORCELAIN TILE
 - 1130 10 OUTDOOR GAS GRILLE (O.P.C.I.)
 - 2650 21 CEILING FAN
 - 3120 01 GRADE
 - 3120 02 COMPACTED SELECT FILL



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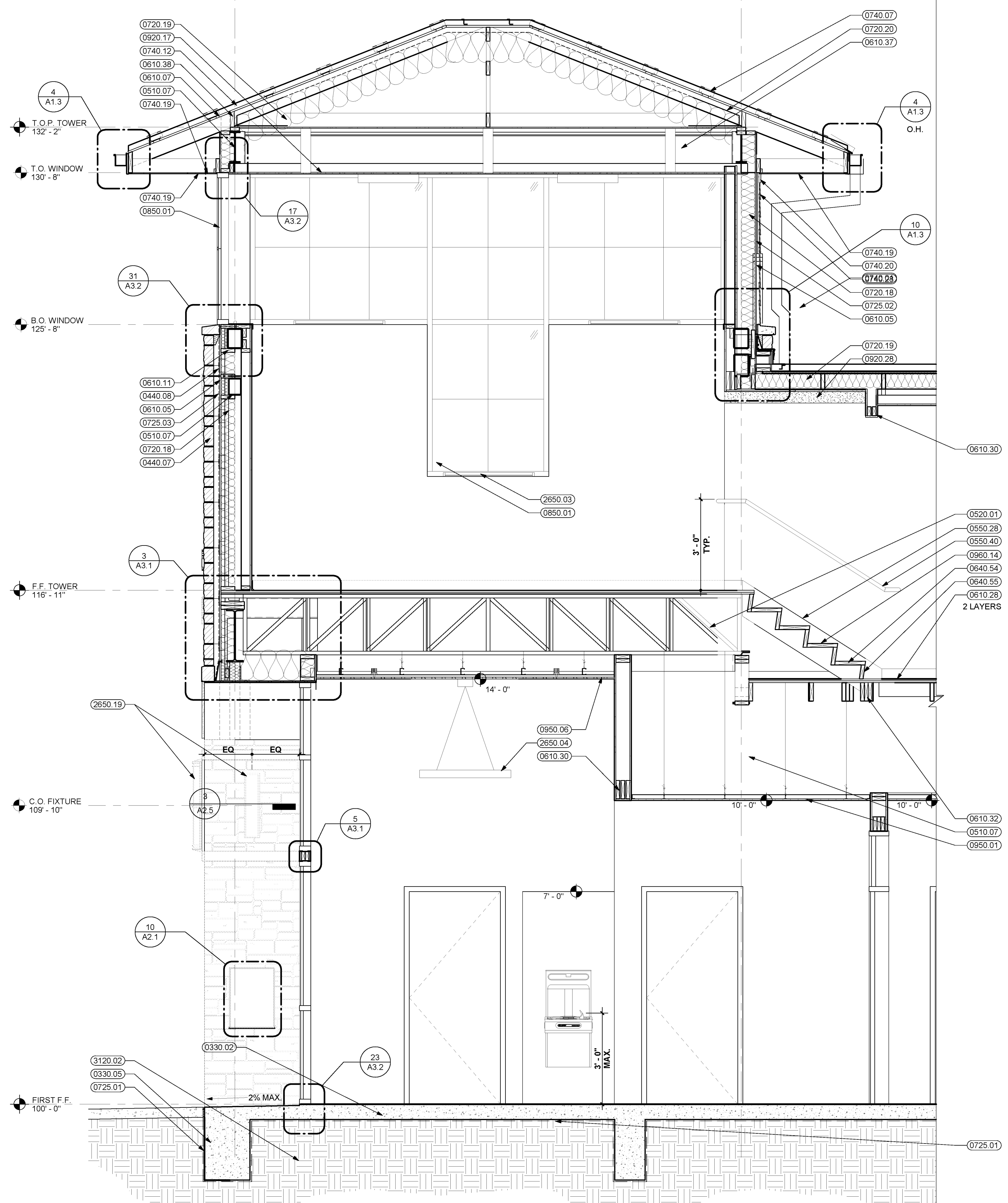
NO.	REVISION	DATE

A2.4

WALL SECTIONS

F

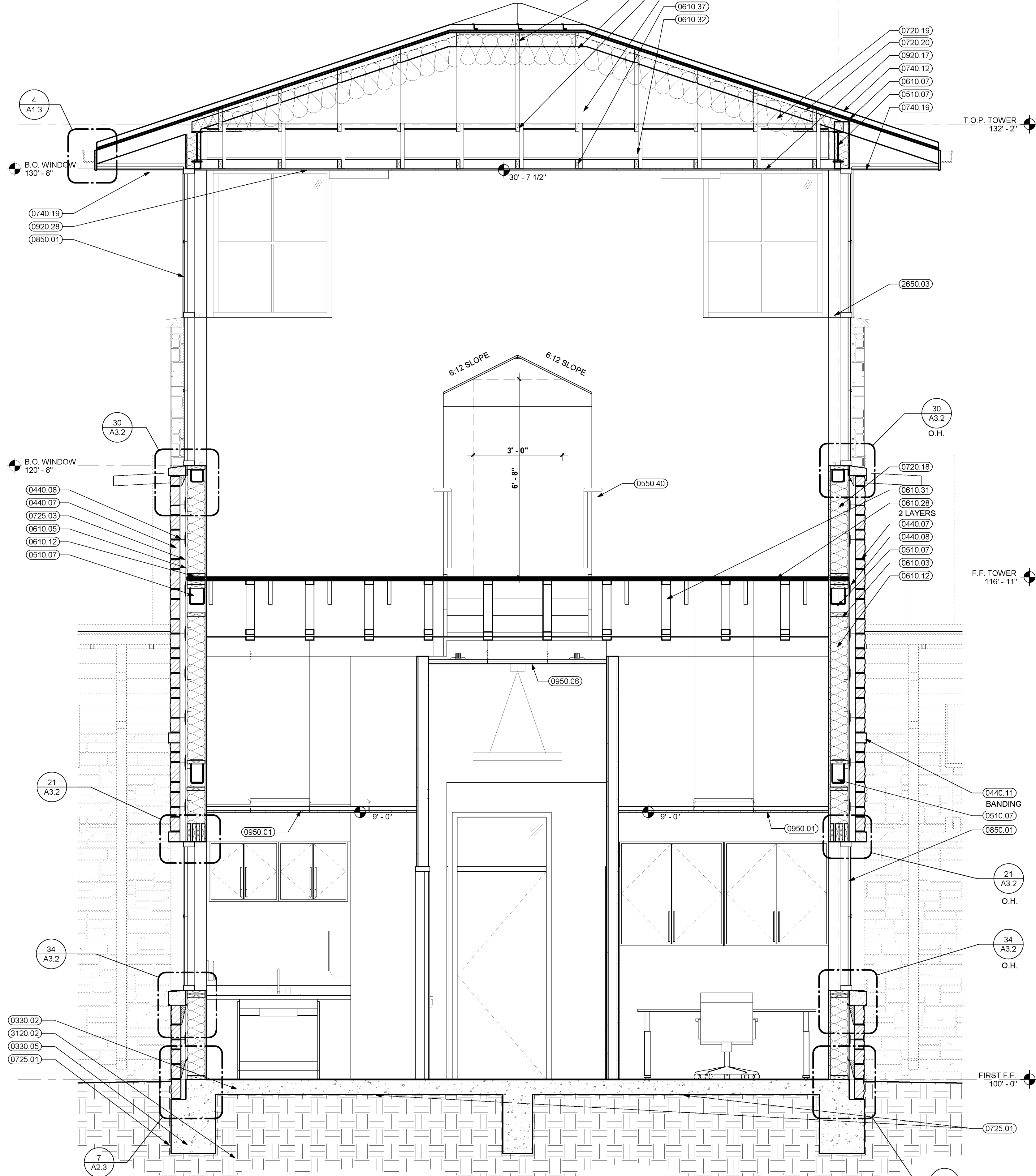
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2 TOWER SECTION
1/2" = 1'-0"

6

7



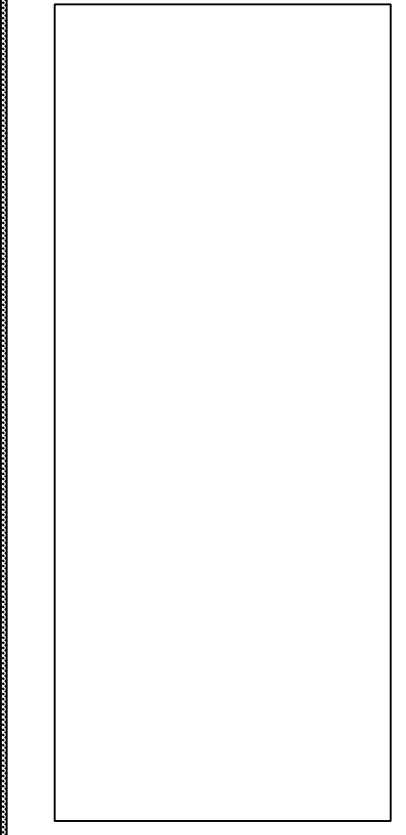
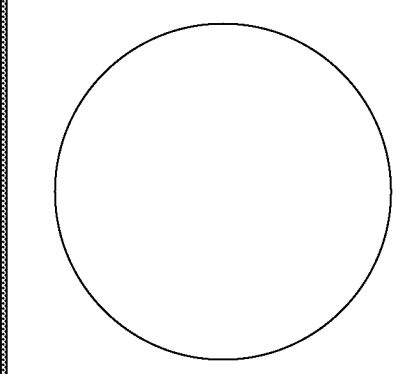
1 TOWER SECTION
1/2" = 1'-0"

KEYNOTES

- 0330.02 CONCRETE SLAB (RE. STRUCTURAL)
- 0330.05 CONCRETE GRADE BEAM (RE. STRUCTURAL)
- 0440.07 STONE VENEER
- 0440.08 ADJUSTABLE MASONRY WALL TIES AT 16" O.C.E.W
- 0440.11 4" CUT STONE
- 0510.07 STEEL BEAM (RE. STRUCTURAL)
- 0520.01 STEEL JOIST (RE. STRUCTURAL)
- 0550.28 STEEL CHANNEL STRINGER
- 0550.40 1 1/4" DIAMETER STANDARD STEEL PIPE HANDRAIL WITH 3/8" PLATE STEEL BRACKETS AT 8'-0" O.C. MAX
- 0610.01 SHIM AS REQUIRED
- 0610.03 2X WOOD BLOCKING
- 0610.05 1/2" EXTERIOR GRADE PLYWOOD
- 0610.07 3/4" EXTERIOR GRADE PLYWOOD
- 0610.11 2 X 6 WOOD FRAMING
- 0610.12 2 X 8 WOOD FRAMING
- 0610.28 3/4" PLYWOOD
- 0610.30 2X WOOD HEADER (RE. STRUCTURAL)
- 0610.31 PREFABRICATED WOOD TRUSS (RE. STRUCTURAL)
- 0610.32 2X WOOD FRAMING (RE. STRUCTURAL)
- 0610.37 2X 4 WOOD FRAMING
- 0610.38 2X VENTILATED BLOCKING (RE. STRUCTURAL)
- 0640.54 WOOD STAIR TREAD
- 0640.55 WOOD STAIR RISER
- 0720.18 5 1/2" BATT INSULATION
- 0720.19 BATT INSULATION (R-38 @ ATTIC/CEILING)
- 0720.20 INSULATION Baffle
- 0725.01 UNDERSLAB VAPOR BARRIER
- 0725.02 SELF-ADHERING MODIFIED BITUMINOUS SHEET AIR BARRIER
- 0725.03 PLASTIC FILM AIR BARRIER
- 0740.01 PREFINISHED METAL ROOF PANEL
- 0740.07 CONCEALED STEEL CLIP BY STANDING SEAM METAL ROOF MANUFACTURER
- 0740.12 PREFINISHED METAL STANDING SEAM ROOFING
- 0740.19 FIBER REINFORCED CEMENTITIOUS VENTED SOFFIT PANEL AND TRIMS
- 0740.20 FIBER REINFORCED CEMENTITIOUS TRIM
- 0740.28 FIBER REINFORCED CEMENTITIOUS SIDING
- 0790.01 SEALANT WITH BACKER ROD AS REQUIRED
- 0850.01 FIXED ALUMINUM WINDOW
- 0920.17 5/8" GYPSUM BOARD ON METAL SUSPENSION SYSTEM
- 0920.28 5/8" GYPSUM BOARD (TYPE X)
- 0950.01 SUSPENDED ACOUSTICAL LAY-IN TILE CEILING (2 X 2)
- 0950.06 SUSPENDED LINEAR WOOD CEILING SYSTEM
- 0960.14 RUBBER TREAD / RISER / FLOORING
- 2650.03 SURFACE-MOUNTED LIGHT FIXTURE
- 2650.04 PENDANT LIGHT FIXTURE
- 2650.19 EXTERIOR LIGHT FIXTURE
- 3120.02 COMPACTED SELECT FILL



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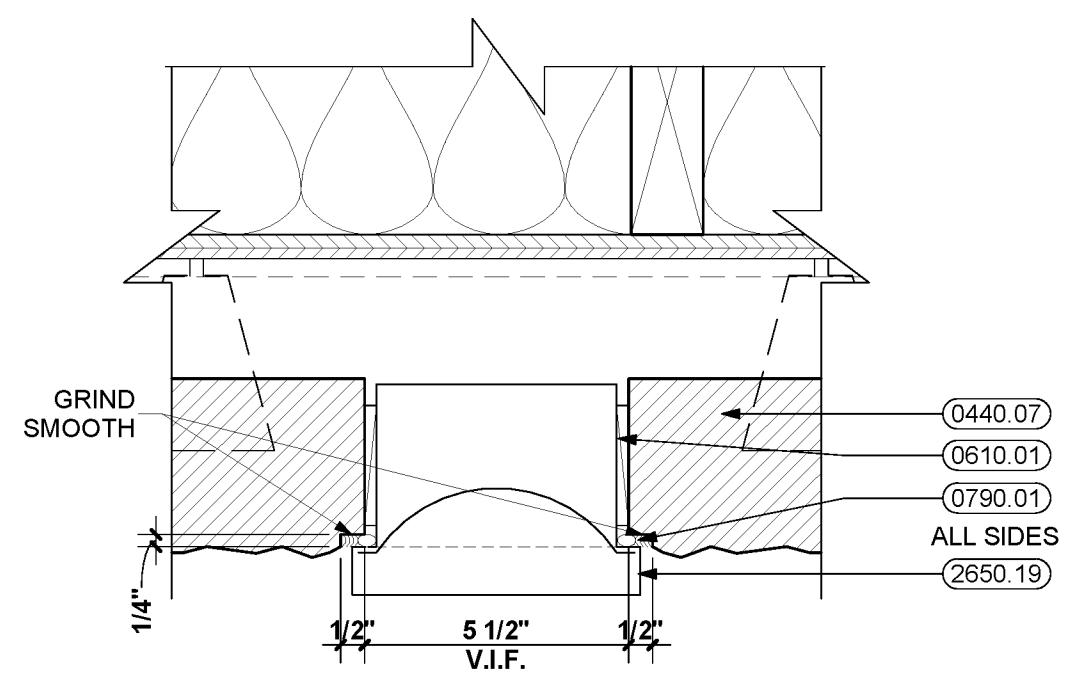
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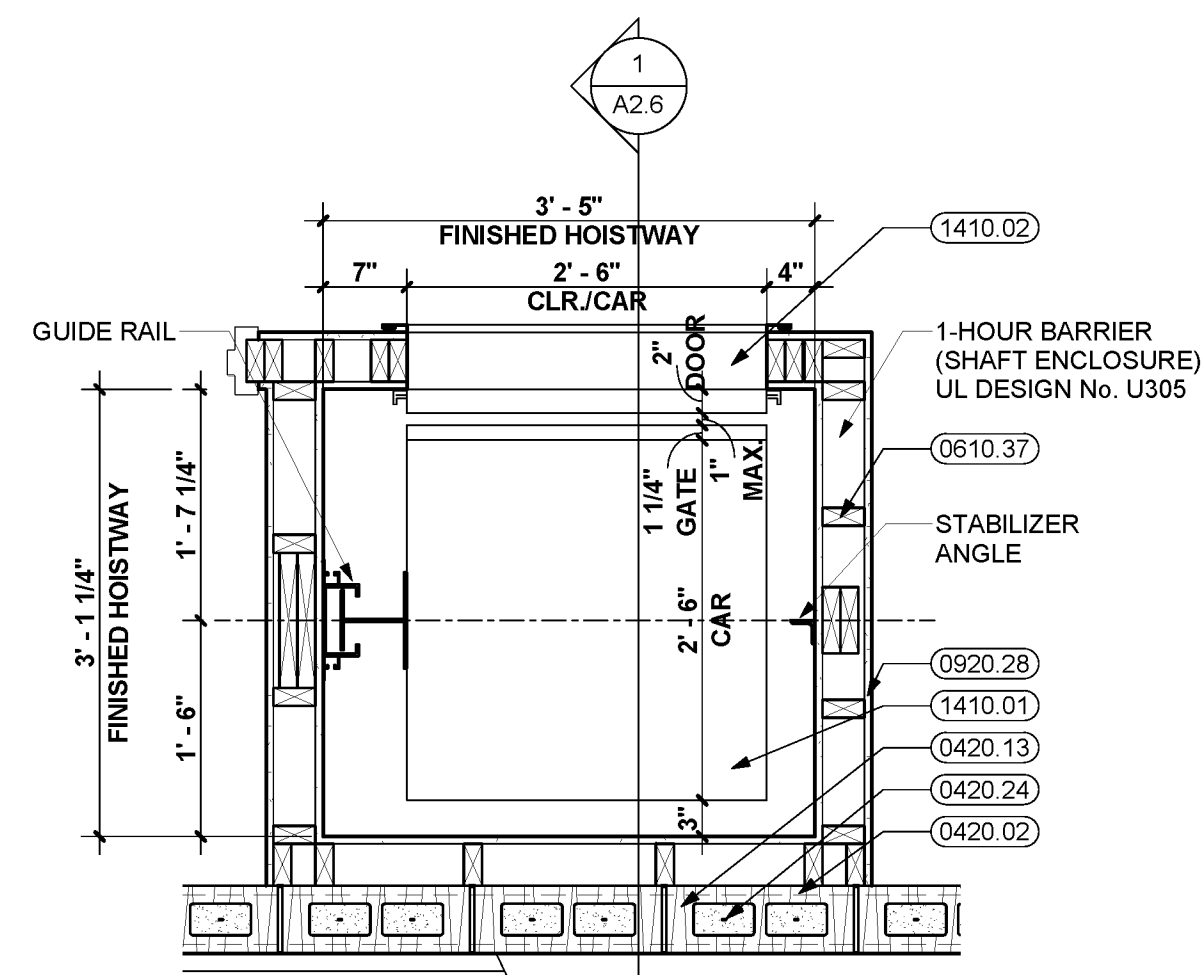
NO.	REVISION	DATE

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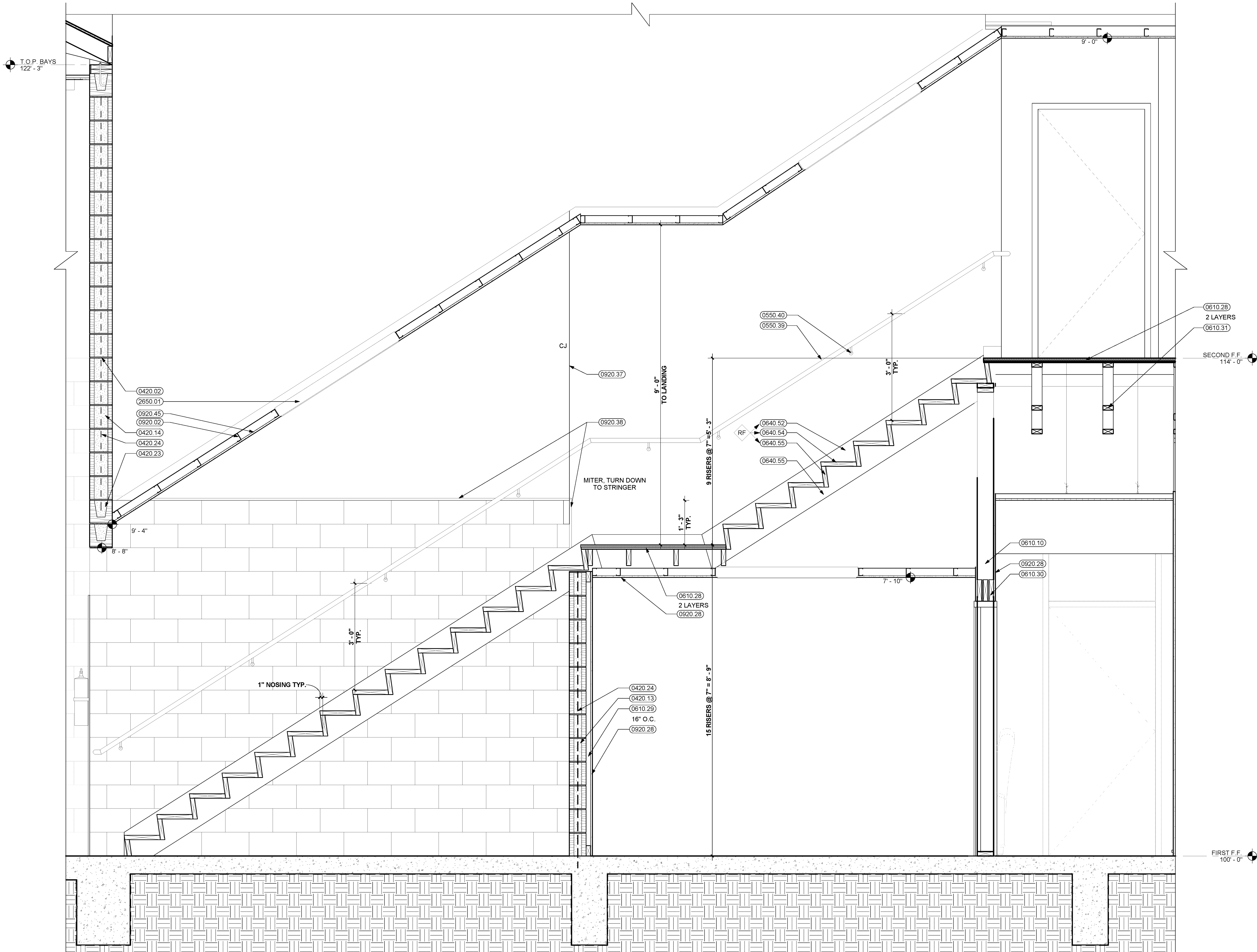
TOWER SECTIONS



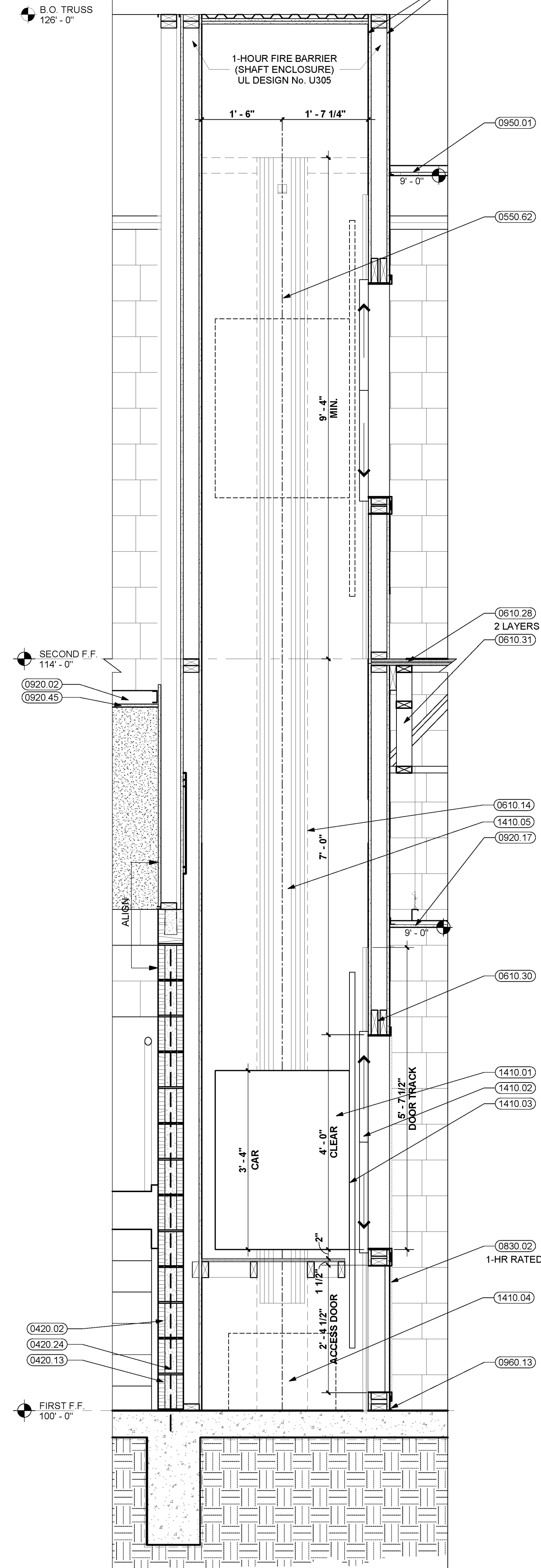
3 SECTION DETAIL
3" = 1'-0"



2 ENLARGED DUMBWAITER PLAN
3/4" = 1'-0"



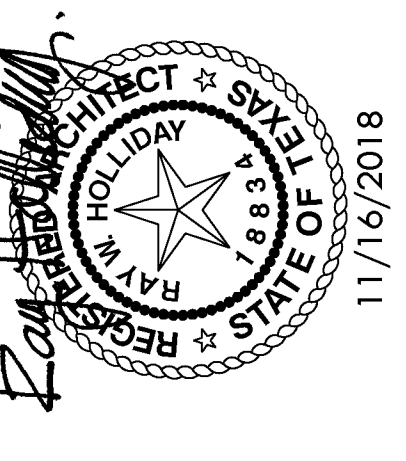
3 STAIR SECTION
3/4" = 1'-0"



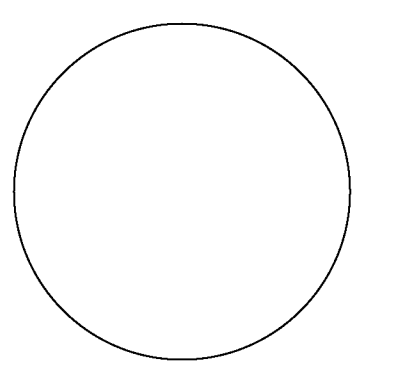
1 WALL SECTION
3/4" = 1'-0"

KEYNOTES

- 0420 02 HORIZONTAL REINFORCING AT 16" O.C. VERTICALLY
- 0420 13 6" CONCRETE MASONRY UNITS
- 0420 14 8" CONCRETE MASONRY UNITS
- 0420 23 CONCRETE MASONRY BOND BEAM
- 0420 24 VERTICAL REINFORCING IN CONCRETE MASONRY UNITS (RE: STRUCTURAL)
- 0550 39 1 1/4" DIAMETER STANDARD STEEL PIPE HANDRAIL (3'-0" HIGH U.N.O.)
- 0550 40 1 1/4" DIAMETER STANDARD STEEL PIPE HANDRAIL WITH 3/8" PLATE STEEL BRACKETS AT 5'-0" O.C. MAX.
- 0550 62 2" X 2" X 1/4" STEEL ANGLE
- 0610 07 3/4" EXTERIOR GRADE PLYWOOD
- 0610 09 2 X 4 WOOD STUDS AT 16" O.C.
- 0610 10 2 X 6 WOOD STUDS AT 16" O.C.
- 0610 14 2 X 12 WOOD FRAMING
- 0610 28 3/4" PLYWOOD
- 0610 29 2X WOOD FURRING STRIPS
- 0610 30 2X WOOD HEADER (RE: STRUCTURAL)
- 0610 31 PREFABRICATED WOOD TRUSS (RE: STRUCTURAL)
- 0610 37 2 X 4 WOOD FRAMING
- 0640 52 WOOD STAIR STRINGER
- 0640 54 WOOD STAIR TREAD
- 0640 55 WOOD STAIR RISER
- 0710 05 ROOFING UNDERLAYMENT
- 0720 01 3 1/2" BATT INSULATION
- 0720 19 BATT INSULATION (R-38 @ ATTIC/CEILING)
- 0720 21 WIRE MESH NETTING
- 0740 12 PREFINISHED METAL STANDING SEAM ROOFING
- 0830 02 WALL ACCESS DOOR
- 0920 02 2 1/2" METAL STUDS (20 GAUGE MINIMUM) AT 16" O.C.
- 0920 17 5/8" GYPSUM BOARD ON METAL SUSPENSION SYSTEM
- 0920 28 5/8" GYPSUM BOARD (TYPE X)
- 0920 37 GYPSUM BOARD CONTROL JOINT
- 0920 38 PRE-MANUFACTURED CONTINUOUS ALUMINUM F REVEAL MOLDING
- 0920 45 5/8" GYPSUM BOARD MOISTURE RESISTANT (TYPE X)
- 0950 01 SUSPENDED ACOUSTICAL LAY-IN TILE CEILING (2 X 2')
- 0960 13 4" RESILIENT BASE
- 1410 01 COMMERCIAL DUMBWAITER
- 1410 02 FIRE RATED BI-PARTING HOISTWAY DOOR WITH EMERGENCY RELEASE AND NON-PLUGGABLE INTERLOCK
- 1410 03 BI-PARTING CAR GATE
- 1410 04 ELECTRIC HOISTING CABLE MOTOR GUIDE RAIL
- 1410 05 1410 05
- 2650 01 RECESSED LIGHT FIXTURE



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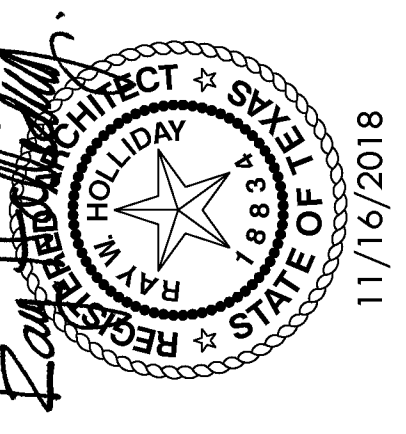
CITY OF GEORGETOWN
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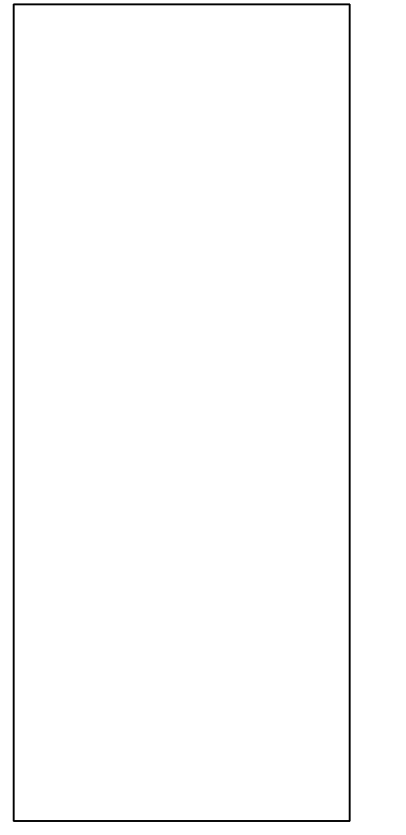
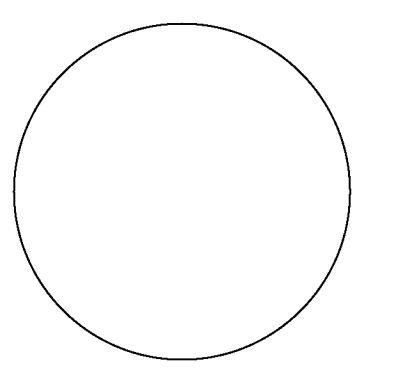
A2.6

KEYNOTES

- 0320.01 DOWEL INTO CONCRETE SLAB
- 0330.02 CONCRETE SLAB (RE. STRUCTURAL)
- 0330.22 CONCRETE EXPANSION JOINT - FILL W/ JOINT SEALER 1/4" BELOW SURFACE
- 0360.03 FILL WITH GROUT
- 0420.01 ADJUSTABLE MASONRY WALL TIES AT 16" O.C.E.W.
- 0420.02 HORIZONTAL REINFORCING AT 16" O.C. VERTICALLY
- 0420.13 6" CONCRETE MASONRY UNITS
- 0420.14 8" CONCRETE MASONRY UNITS
- 0420.23 CONCRETE MASONRY BOND BEAM
- 0420.24 VERTICAL REINFORCING IN CONCRETE MASONRY UNITS (RE. STRUCTURAL)
- 0440.07 STONE VENEER
- 0440.08 ADJUSTABLE MASONRY WALL TIES AT 16" O.C.E.W.
- 0440.12 6" CUT STONE
- 0470.05 CAST STONE SILL WITH DRIP
- 0510.03 STEEL TUBE COLUMN (RE. STRUCTURAL)
- 0510.04 STEEL ANGLE (RE. STRUCTURAL)
- 0510.07 STEEL BEAM (RE. STRUCTURAL)
- 0610.01 SHIM AS REQUIRED
- 0610.04 2X PRESSURE TREATED WOOD BLOCKING
- 0610.05 12" EXTERIOR GRADE PLYWOOD
- 0610.09 2 X 4 WOOD STUDS AT 16" O.C.
- 0610.10 2 X 6 WOOD STUDS AT 16" O.C.
- 0610.11 2 X 6 WOOD FRAMING
- 0610.15 WOOD TOP PLATE
- 0610.29 2X WOOD FURRING STRIPS
- 0610.30 2X WOOD HEADER (RE. STRUCTURAL)
- 0610.32 2X WOOD FRAMING (RE. STRUCTURAL)
- 0710.01 BITUMINOUS DAMPPROOFING
- 0720.01 3 1/2" BATT INSULATION
- 0720.18 5 1/2" BATT INSULATION
- 0725.02 SELF-ADHERING MODIFIED BITUMINOUS SHEET AIR BARRIER
- 0725.03 PLASTIC FILM AIR BARRIER
- 0725.06 SELF-ADHERING FLEXIBLE SURROUND FLASHINGS
- 0740.19 FIBER REINFORCED CEMENTITIOUS VENTED SOFFIT PANEL AND TRIMS
- 0740.20 FIBER REINFORCED CEMENTITIOUS TRIM
- 0740.21 FIBER REINFORCED CEMENTITIOUS FASCIA
- 0740.28 FIBER REINFORCED CEMENTITIOUS SIDING THROUGH-WALL FLASHING (WITH WEEPS AT 2'-0" O.C.) AND MORTAR NET
- 0760.02 THROUGH-WALL FLASHING (WITH WEEPS AT 2'-0" O.C.)
- 0760.34 STAINLESS STEEL WATERSTOP FLASHING CONTINUOUS UNDER FRAME
- 0760.36 GALVANIZED METAL FLASHING
- 0770.24 VENTED SCREED (F-MOLDING)
- 0790.01 SEALANT WITH BACKER ROD AS REQUIRED
- 0790.02 CHALKING
- 0790.07 SET IN BED OF SEALANT
- 0810.02 HOLLOW METAL FRAME
- 0810.03 HOLLOW METAL STOP
- 0810.04 HOLLOW METAL DOOR AND FRAME
- 0810.05 JAMB ANCHOR (3 PER JAMB)
- 0810.06 HOLLOW METAL DOOR
- 0810.08 SOLID CORE WOOD DOOR
- 0840.01 ALUMINUM STOREFRONT
- 0840.03 060 ALUMINUM SILL WITH HEMMED AND CLOSED ENDS
- 0840.05 CONTINUOUS ALUMINUM SILL FLASHING
- 0840.15 060 ALUMINUM BRAKE METAL. FINISH TO MATCH STOREFRONT
- 0850.02 OPERABLE ALUMINUM WINDOW
- 0850.05 ALUMINUM SINGLE-HUNG WINDOW
- 0870.01 METAL THRESHOLD. SET IN SEALANT
- 0870.03 BRUSH-WEATHER SEAL.
- 0880.19 1" TINTED GLASS, INSULATED. LOW-E
- 0920.17 5/8" GYPSUM BOARD ON METAL SUSPENSION SYSTEM
- 0920.28 5/8" GYPSUM BOARD (TYPE X)
- 0920.35 CORNER BEAD, TYPICAL
- 0920.36 J-MOULD, TYPICAL
- 2650.03 SURFACE-MOUNTED LIGHT FIXTURE



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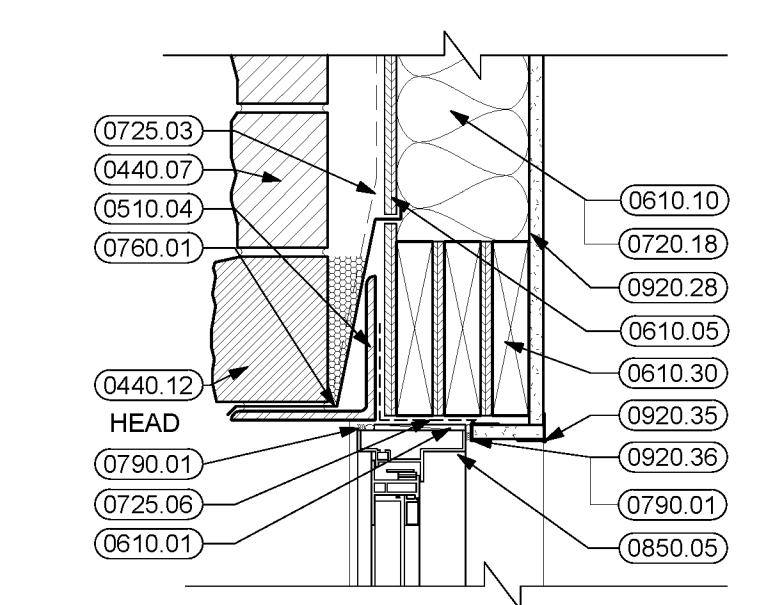


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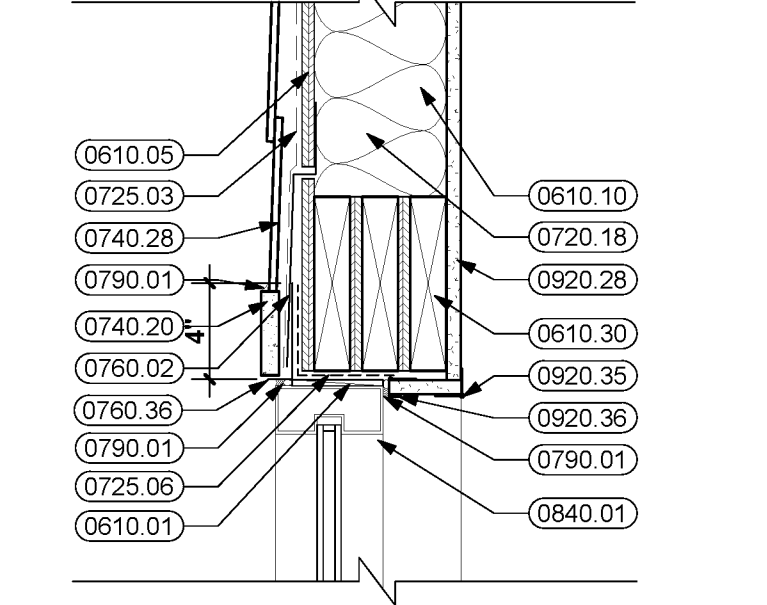
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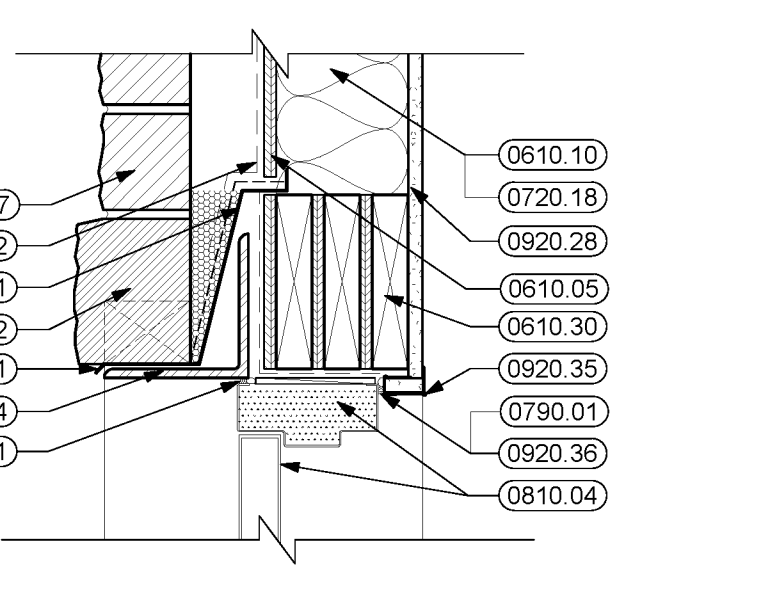
A3.2
 DOOR AND WINDOW DETAILS



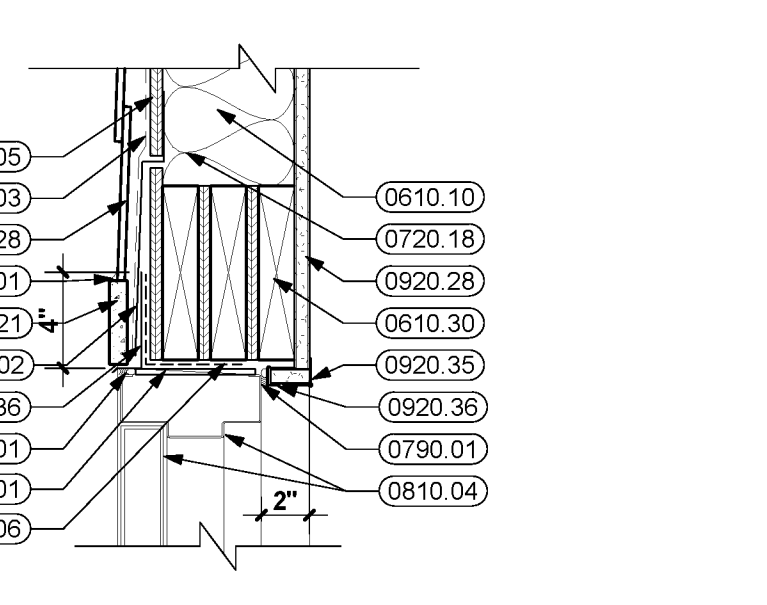
7 WINDOW HEAD
1 1/2" = 1'-0"



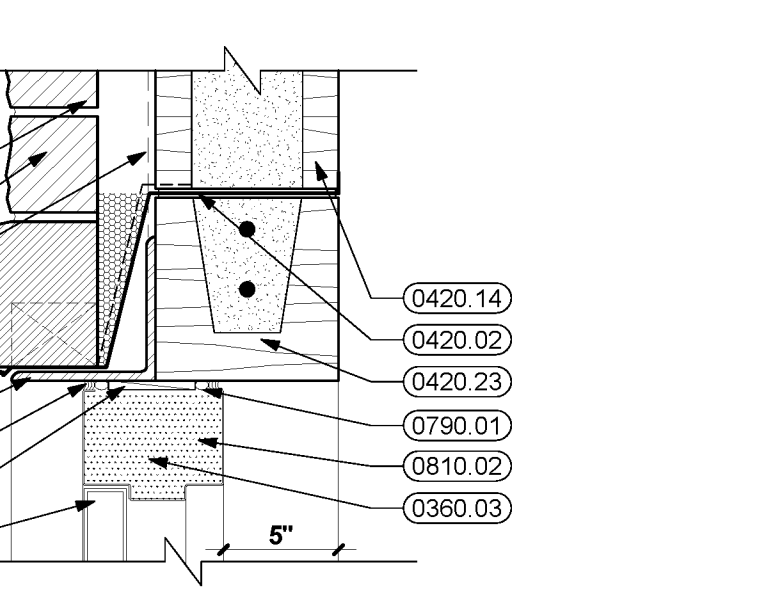
6 WINDOW HEAD
1 1/2" = 1'-0"



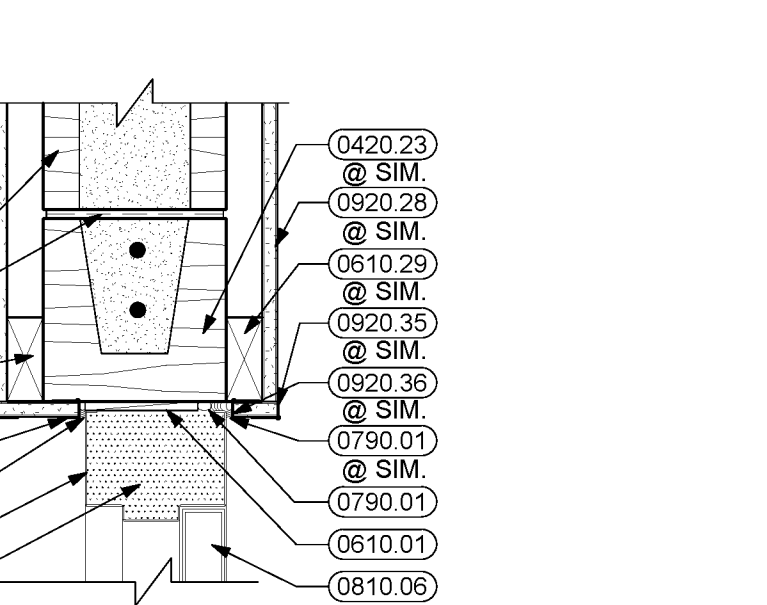
5 DOOR HEAD
1 1/2" = 1'-0"



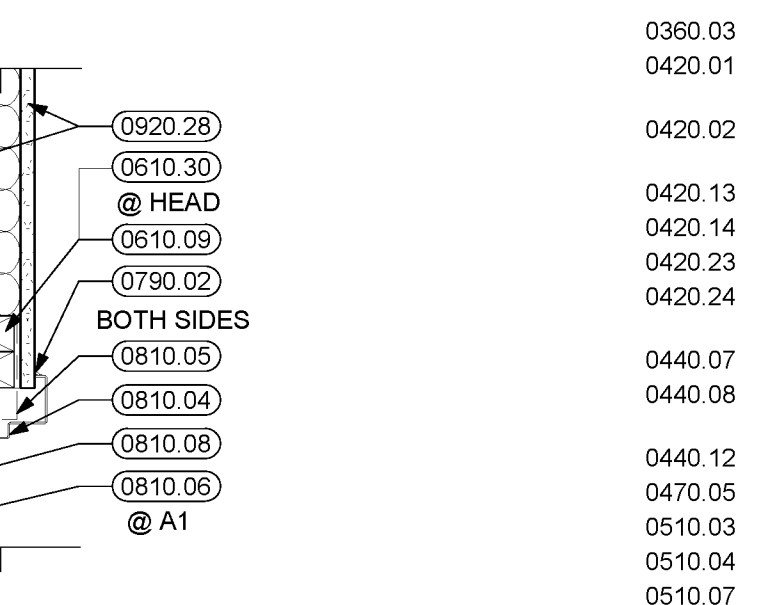
4 DOOR HEAD
1 1/2" = 1'-0"



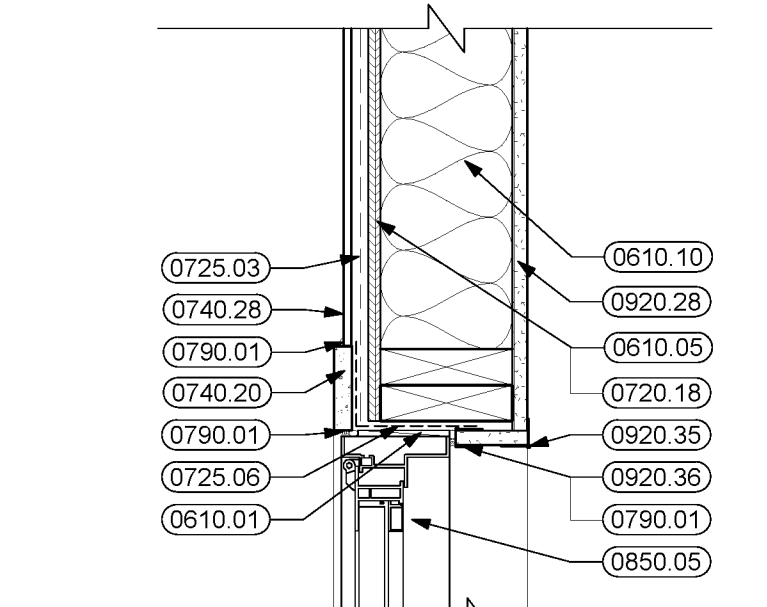
3 DOOR HEAD
1 1/2" = 1'-0"



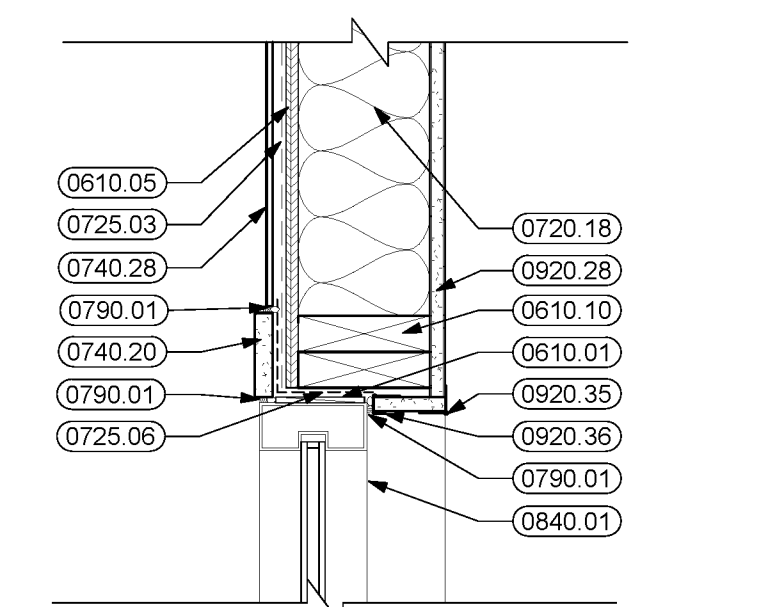
2 DOOR HEAD
1 1/2" = 1'-0"



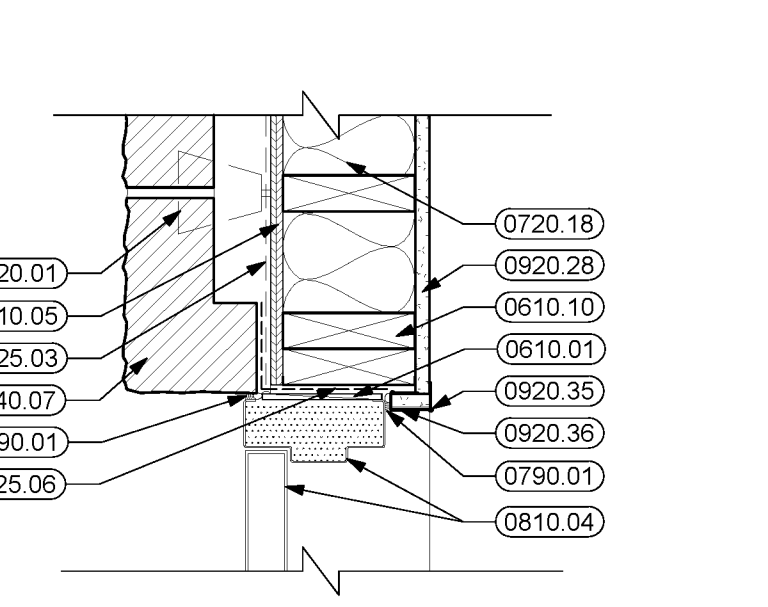
1 DOOR HEAD/JAMB
1 1/2" = 1'-0"



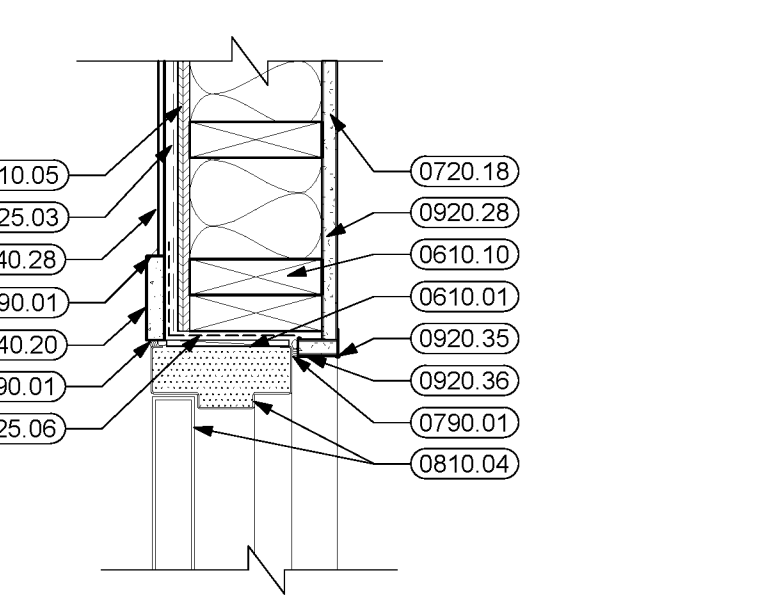
14 WINDOW JAMB
1 1/2" = 1'-0"



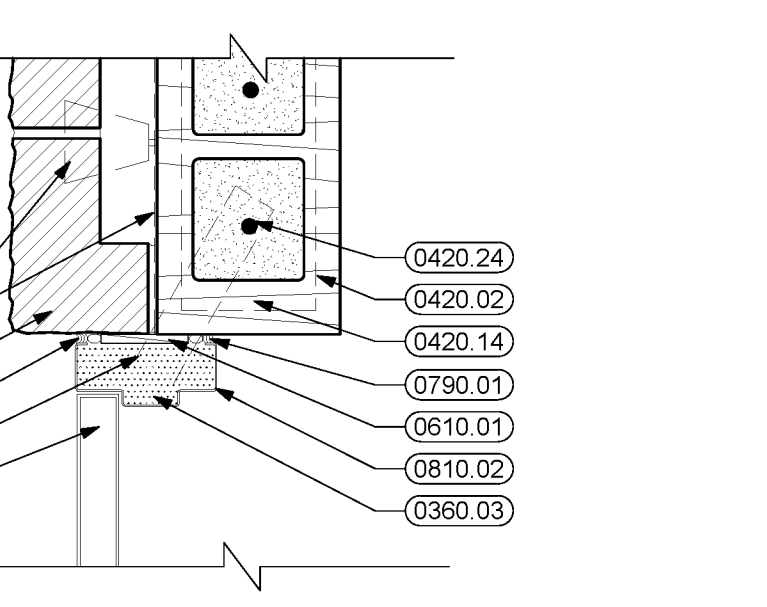
13 WINDOW JAMB
1 1/2" = 1'-0"



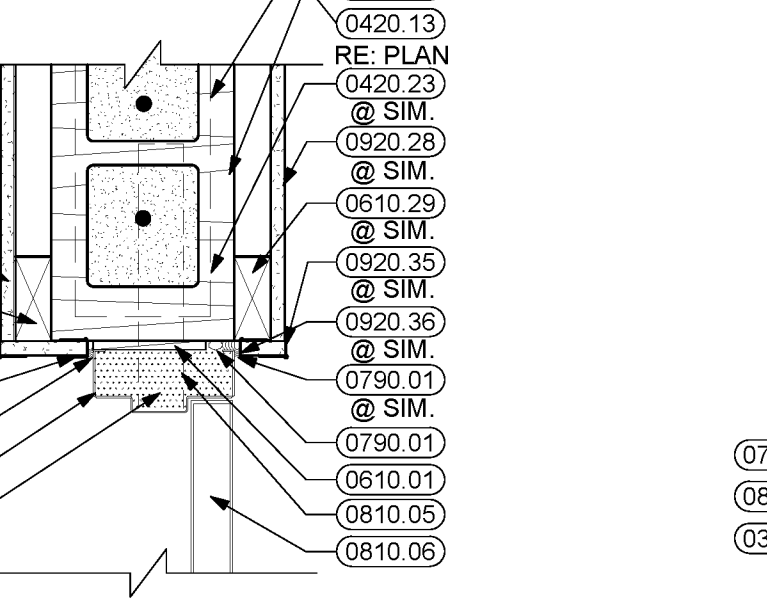
12 DOOR JAMB
1 1/2" = 1'-0"



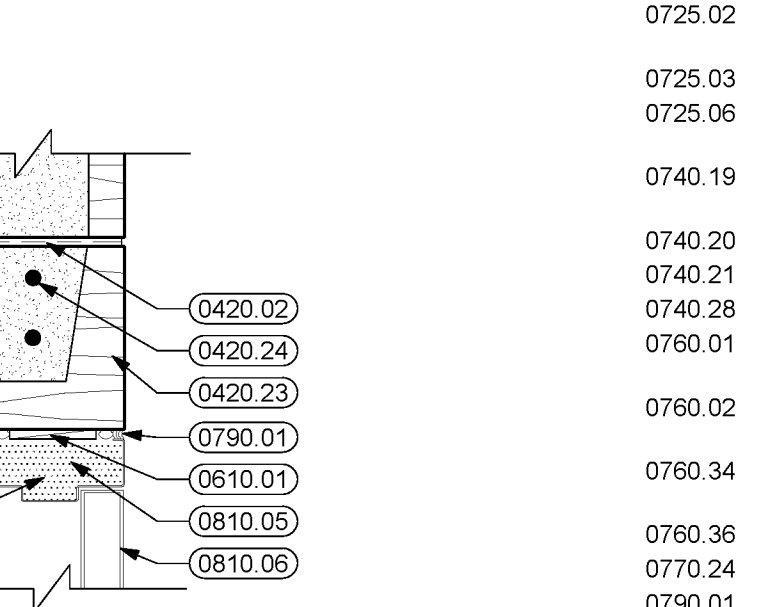
11 DOOR JAMB
1 1/2" = 1'-0"



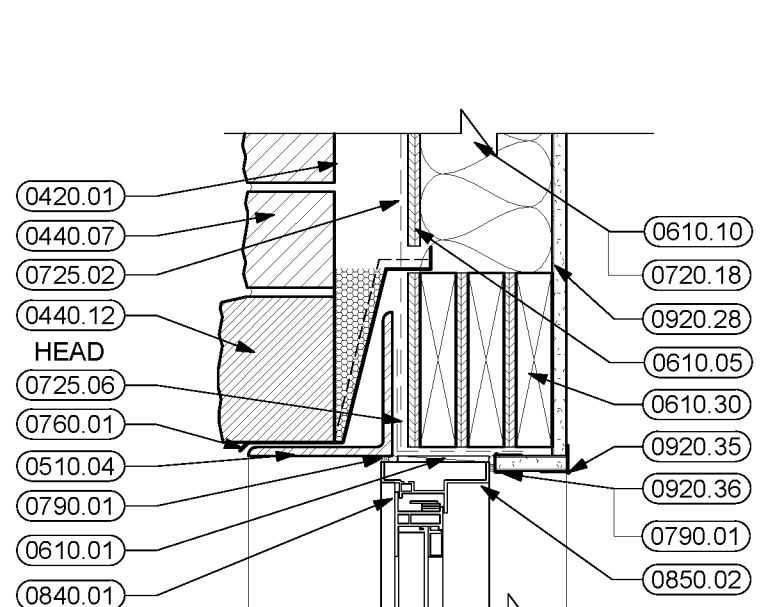
10 DOOR JAMB
1 1/2" = 1'-0"



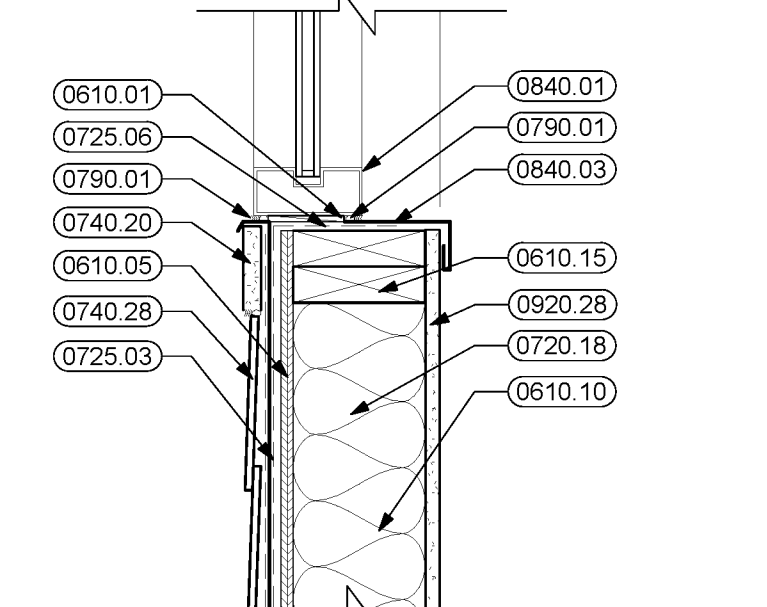
9 DOOR JAMB
1 1/2" = 1'-0"



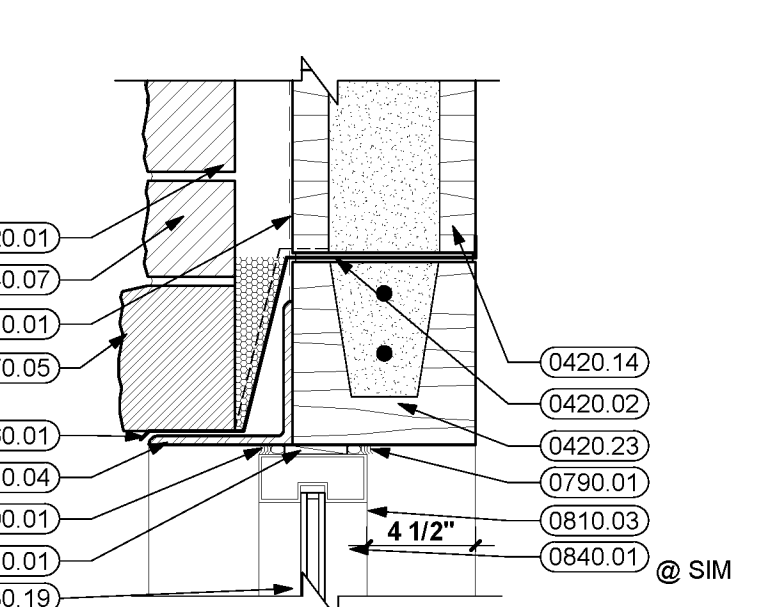
8 DOOR HEAD
1 1/2" = 1'-0"



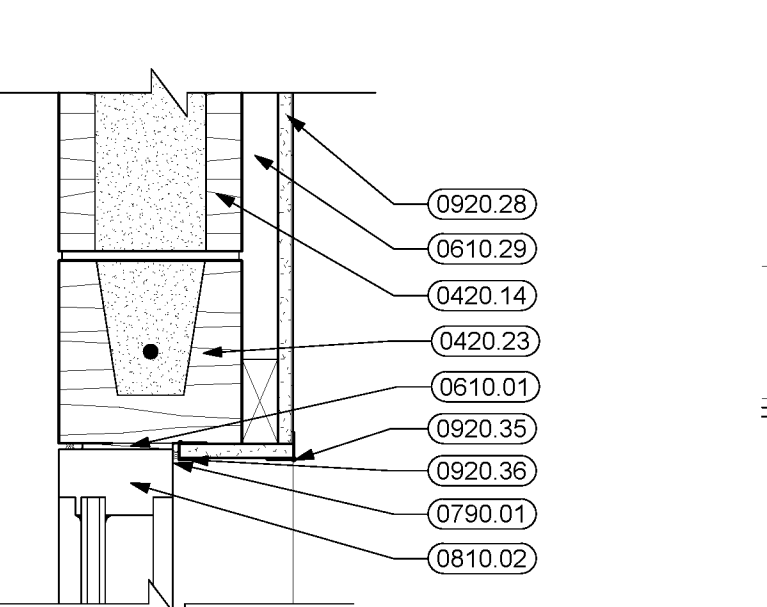
21 WINDOW HEAD
1 1/2" = 1'-0"



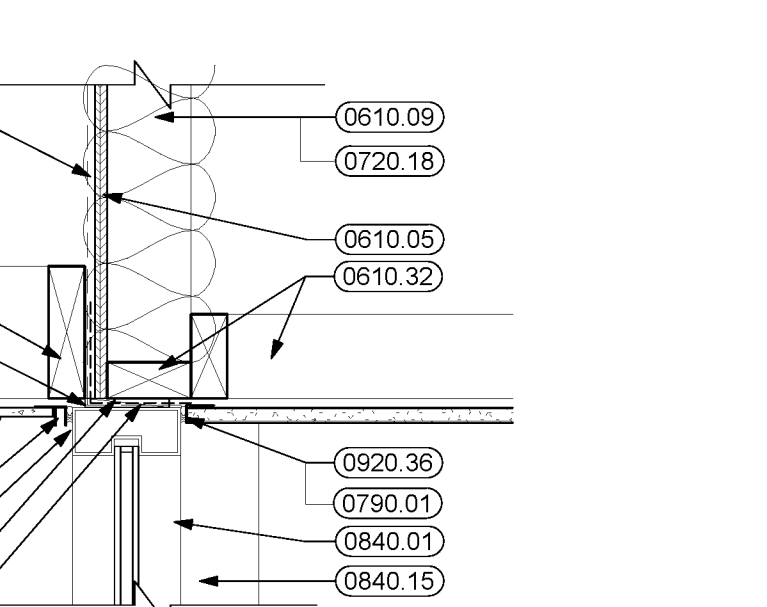
20 WINDOW SILL
1 1/2" = 1'-0"



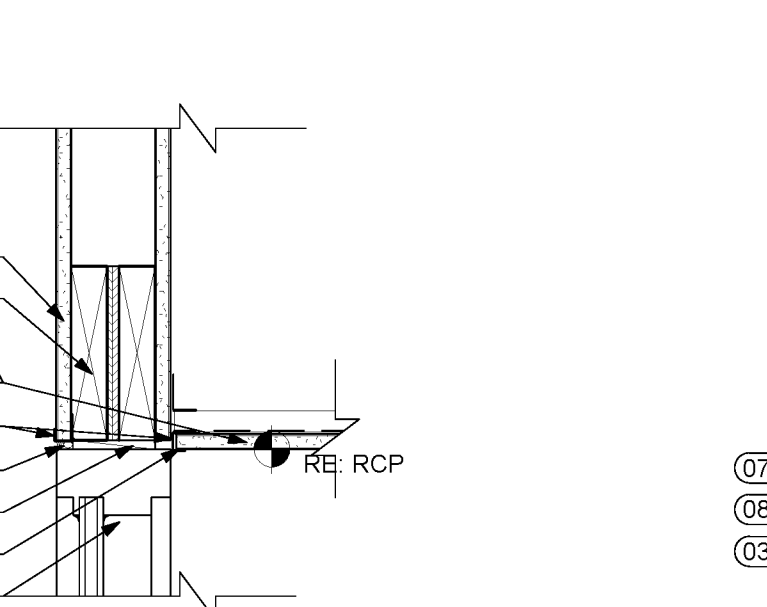
19 WINDOW HEAD
1 1/2" = 1'-0"



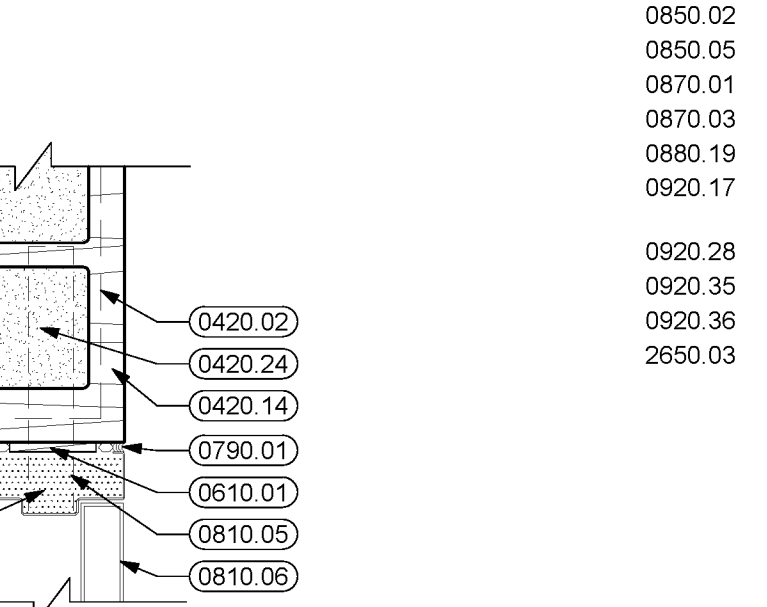
18 WINDOW HEAD
1 1/2" = 1'-0"



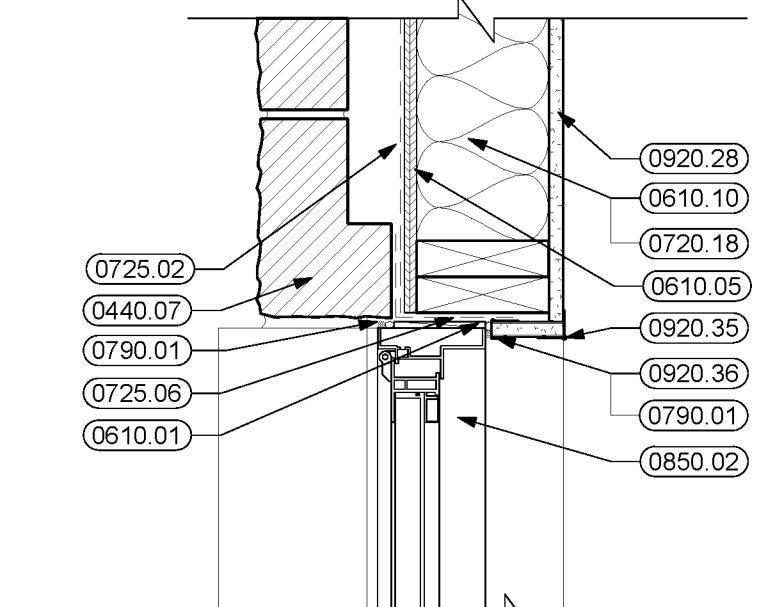
17 WINDOW HEAD
1 1/2" = 1'-0"



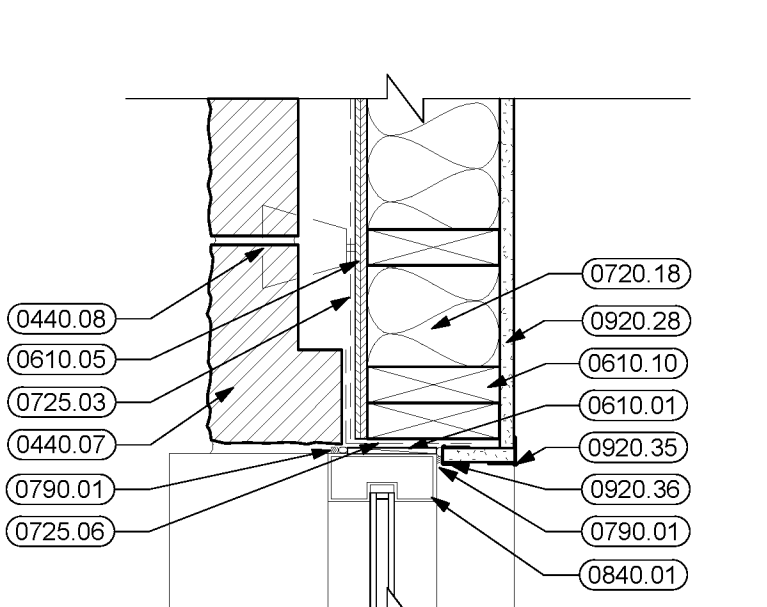
16 WINDOW HEAD
1 1/2" = 1'-0"



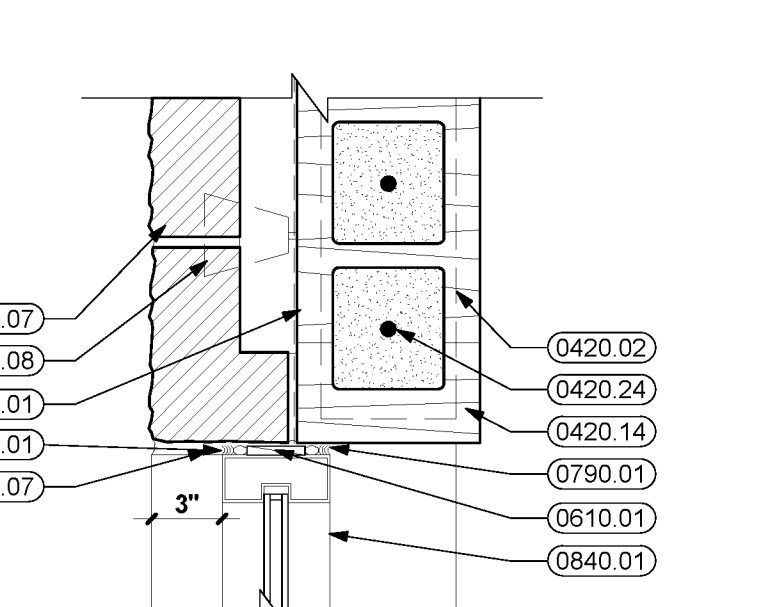
15 JAMB CMU
1 1/2" = 1'-0"



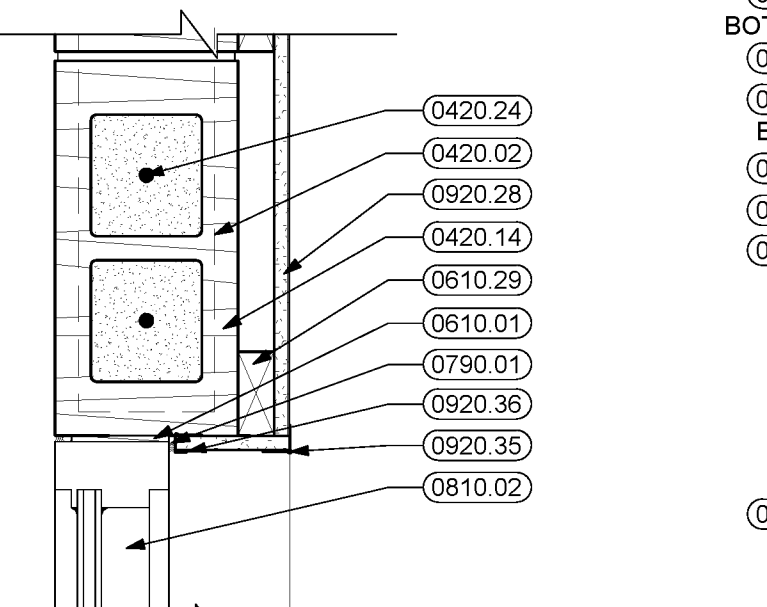
28 WINDOW JAMB
1 1/2" = 1'-0"



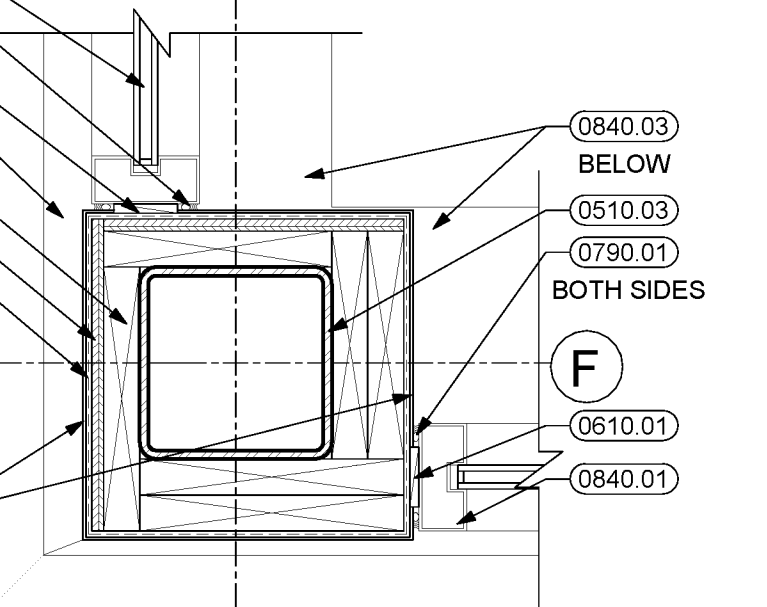
27 WINDOW JAMB
1 1/2" = 1'-0"



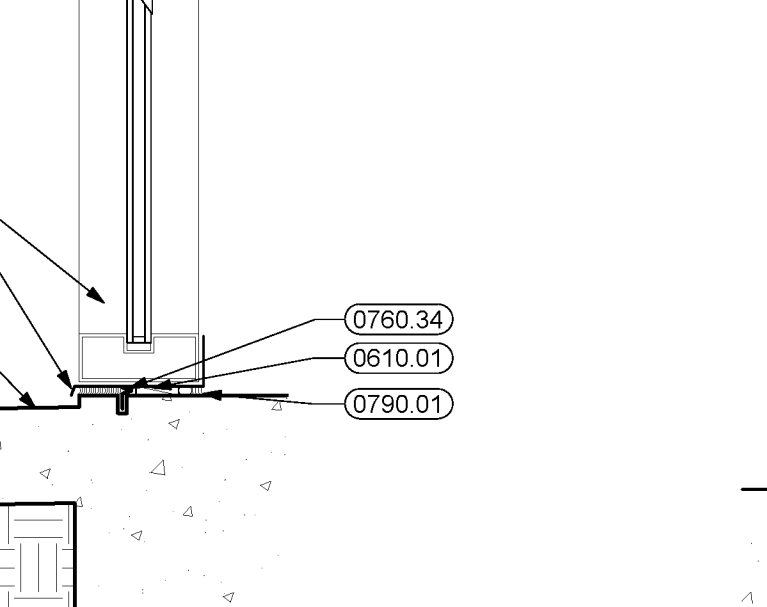
26 WINDOW JAMB
1 1/2" = 1'-0"



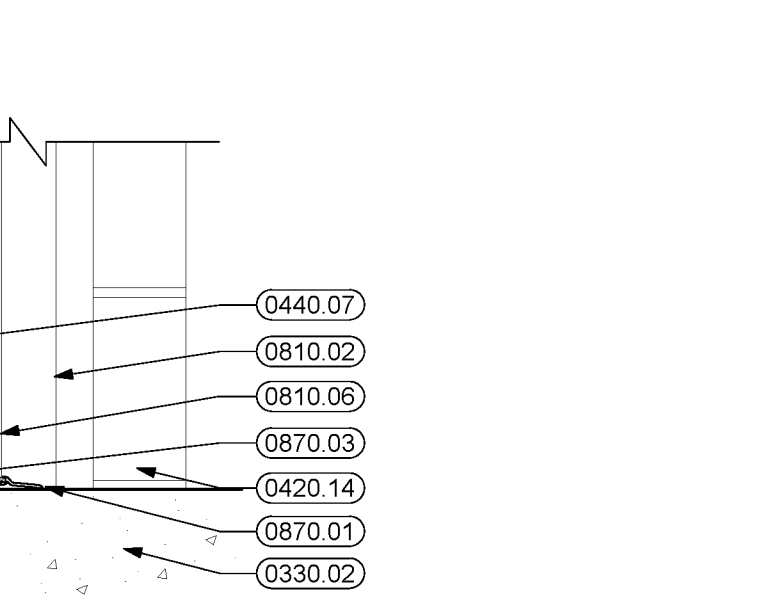
25 WINDOW JAMB
1 1/2" = 1'-0"



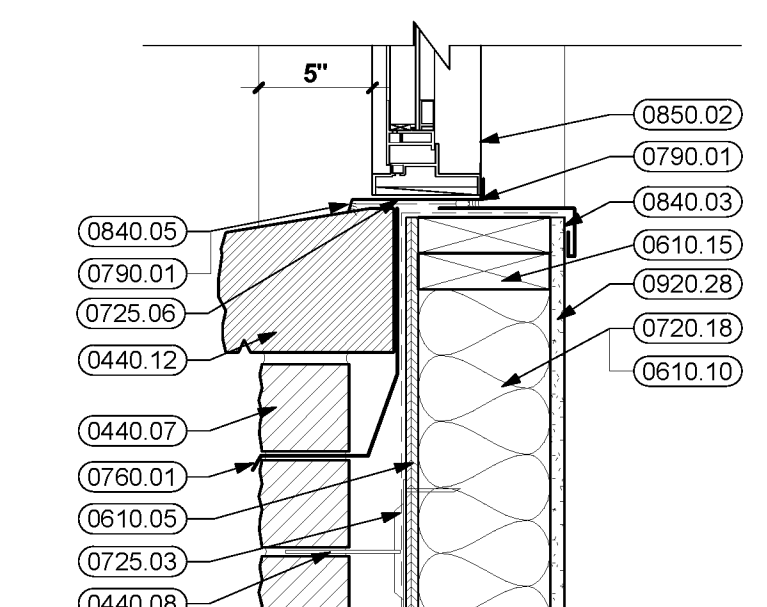
24 WINDOW JAMB
1 1/2" = 1'-0"



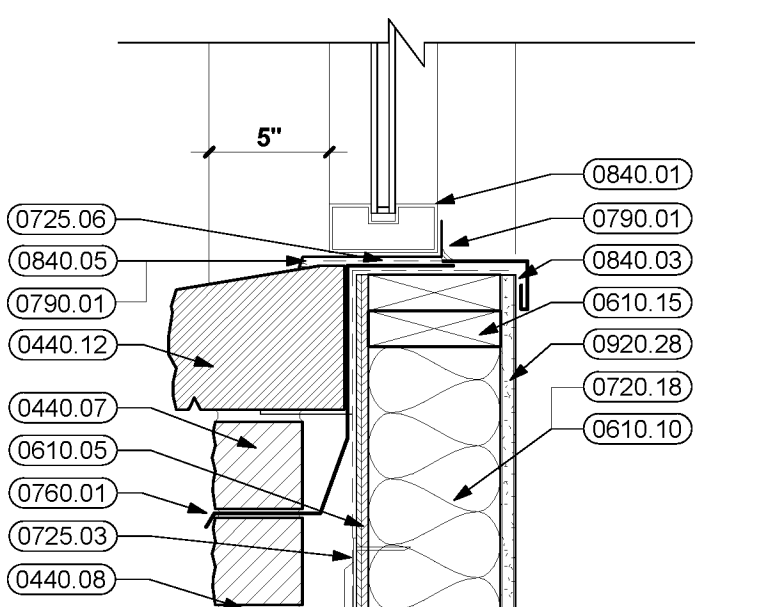
23 WINDOW SILL
1 1/2" = 1'-0"



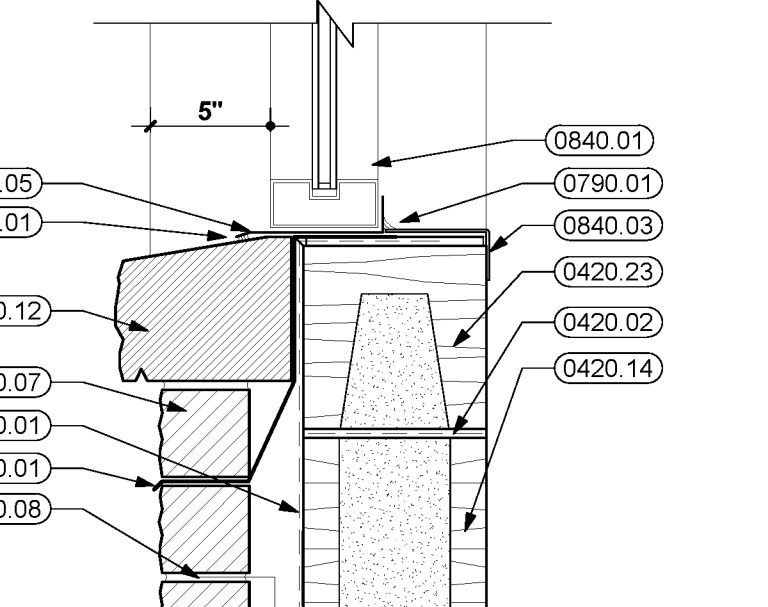
22 DOOR SILL
1 1/2" = 1'-0"



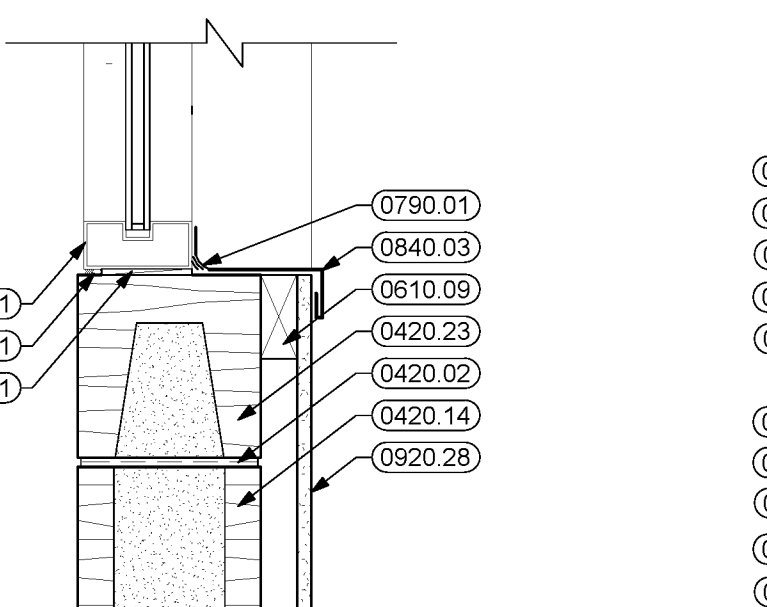
35 WINDOW SILL
1 1/2" = 1'-0"



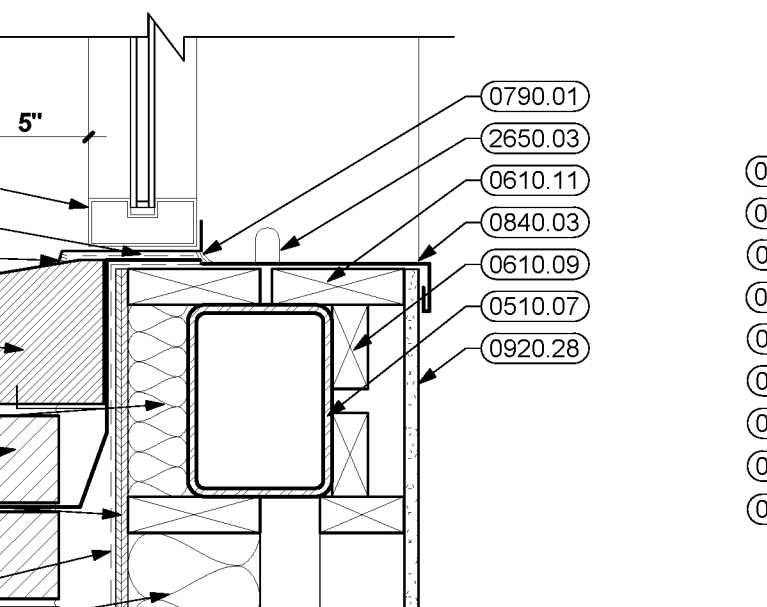
34 WINDOW SILL
1 1/2" = 1'-0"



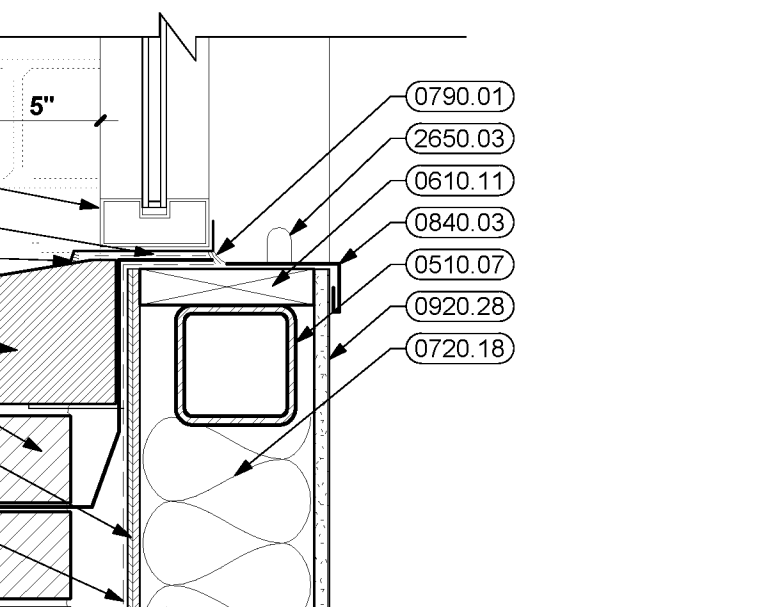
33 WINDOW SILL
1 1/2" = 1'-0"



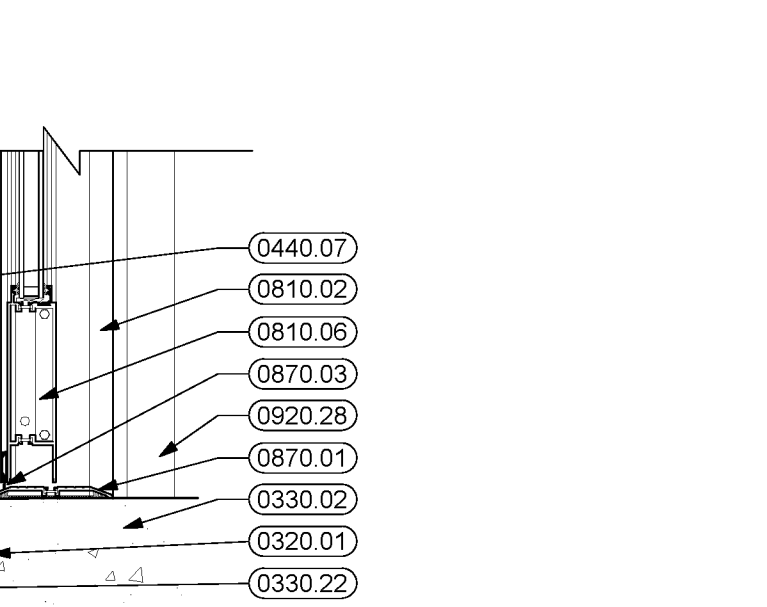
32 WINDOW SILL
1 1/2" = 1'-0"



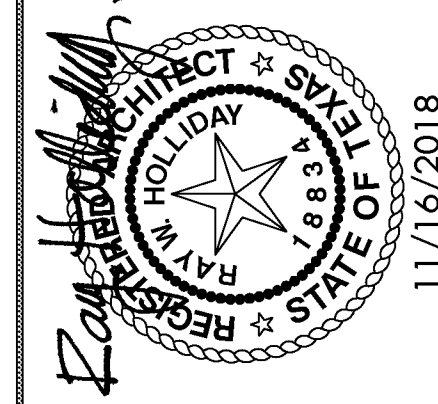
31 WINDOW SILL
1 1/2" = 1'-0"



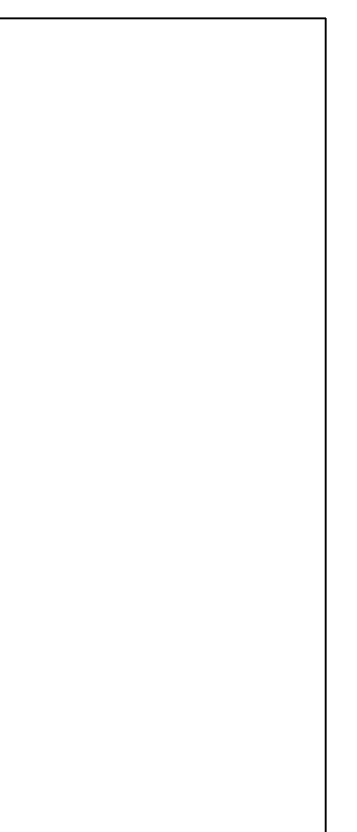
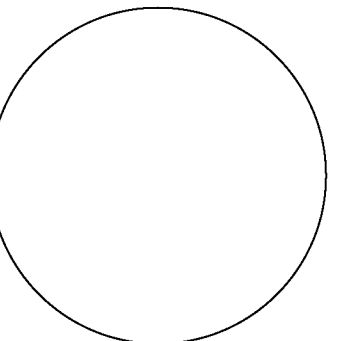
30 WINDOW SILL
1 1/2" = 1'-0"



29 DOOR SILL
1 1/2" = 1'-0"



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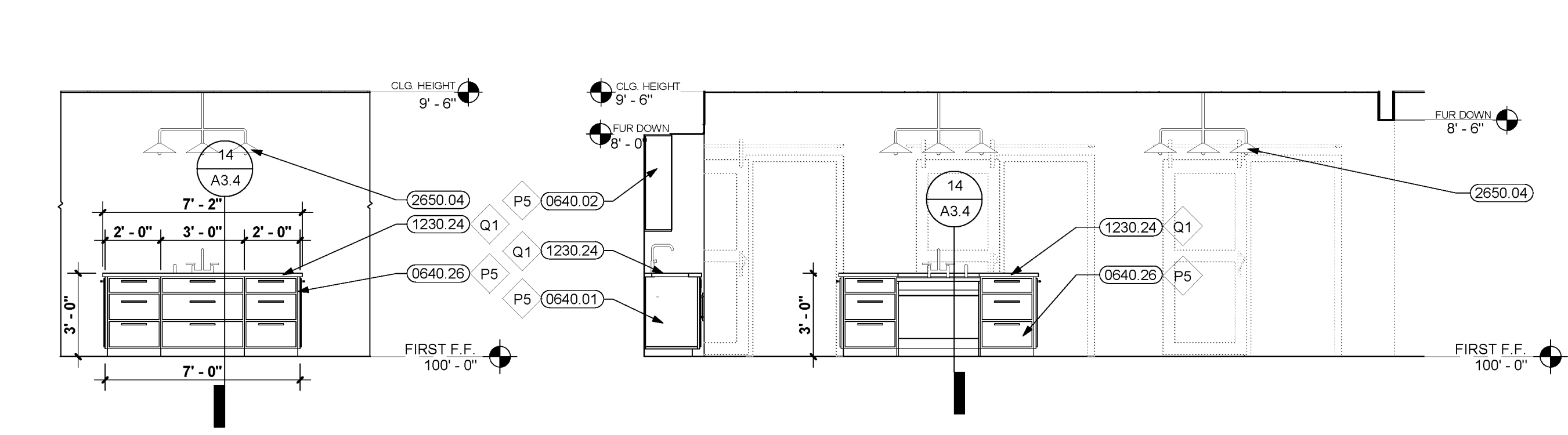
CITY OF GEORGETOWN
 FIRE STATION No. 6
 6700 R.M. 2338
 GEORGETOWN, TX 78633

NO.	REVISION	DATE

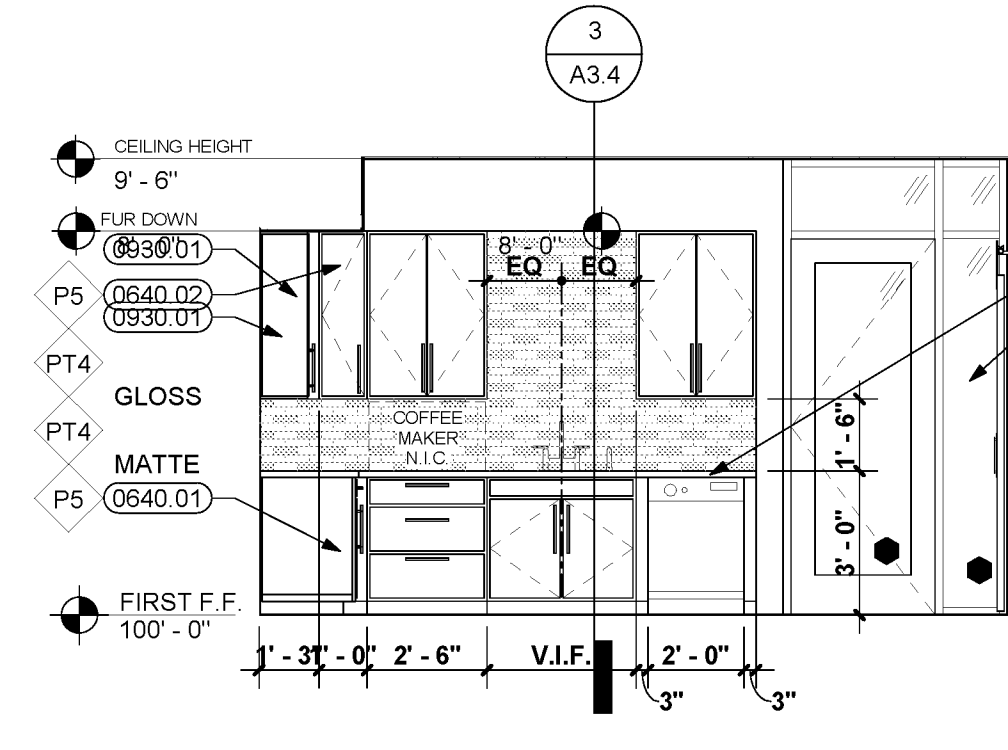
A3.3

KEYNOTES

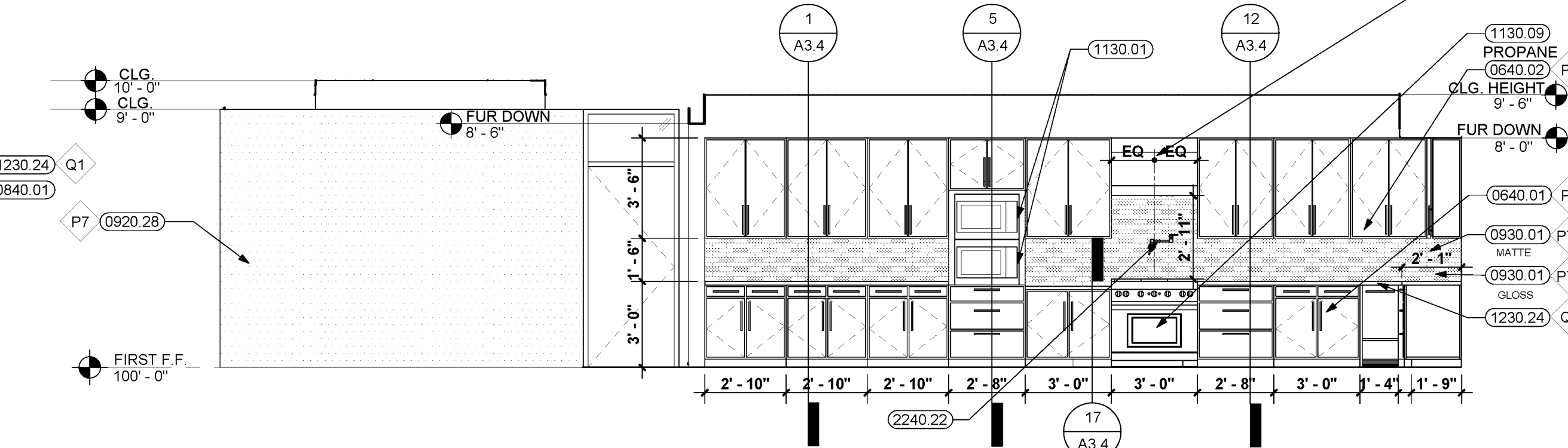
- 0405.04 MASONRY CONTROL JOINT
- 0420.14 8" CONCRETE MASONRY UNITS
- 0500.19 8" PIPE BOLLARD. FILL WITH CONCRETE
- 0640.01 HARDWOOD VENEER BASE CABINETS WITH ADJUSTABLE SHELVES
- 0640.02 HARDWOOD VENEER WALL CABINETS WITH ADJUSTABLE SHELVES
- 0640.05 PLASTIC LAMINATE COUNTERTOP 1/4" SPLASH AS SHOWN
- 0640.18 ADJUSTABLE SHELVING
- 0640.24 ADJUSTABLE METAL SHELF STANDARDS PROVIDE BLOCKING IN WALL AS REQUIRED
- 0640.25 HARDWOOD VENEER PLYWOOD SHELVES (5) ON ADJUSTABLE METAL STANDARDS PROVIDE BLOCKING IN WALL AS REQUIRED
- 0640.26 HARDWOOD VENEER WITH 1/4" HARDWOOD BOTTOM
- 0640.32 SHELF BRACKET
- 0640.40 PLASTIC LAMINATE DESK
- 0640.52 WOOD STAIR STRINGER
- 0640.57 HARDWOOD VENEER SUPPORT BRACKET
- 0640.62 HARDWOOD VENEER LOCKER WITH DRAWERS AND ADJUSTABLE SHELVES
- 0640.64 4" GROMMET WITH AIR VENT GROMMET CAP
- 0640.66 HARDWOOD VENEER PLYWOOD BED STAND WITH STORAGE CABINETS
- 0640.69 HARDWOOD VENEER PLYWOOD FILLER
- 0810.02 HOLLOW METAL FRAME
- 0830.17 UPWARD-ACTING SECTIONAL DOOR
- 0840.01 ALUMINUM STOREFRONT
- 0840.03 060 ALUMINUM SILL WITH HEMMED AND CLOSED ENDS
- 0840.08 ALUMINUM STOREFRONT OPERABLE WINDOW
- 0840.15 060 ALUMINUM BRAKE METAL. FINISH TO MATCH STOREFRONT
- 0880.13 1/4" GLASS MIRROR
- 0890.01 PREFINISHED FIXED ALUMINUM LOUVER (WITH INSECT SCREEN)
- 0920.28 5/8" GYPSUM BOARD (TYPE X)
- 0920.45 5/8" GYPSUM BOARD MOISTURE RESISTANT (TYPE X)
- 0930.01 PORCELAIN TILE
- 0930.10 METAL TILE TRIM
- 0930.12 PREFABRICATED SHOWER NICHE
- 0960.13 4" RESILIENT BASE
- 1020.16 STAINLESS STEEL 1 1/2" DIAMETER GRAB BAR (36" LONG) PROVIDE BLOCKING IN WALL
- 1020.20 SOAP DISPENSER (SURFACE-MOUNTED)
- 1020.24 STAINLESS STEEL SURFACE MOUNTED TOILET PAPER DISPENSER
- 1020.30 STAINLESS STEEL SEMI-RECESSED PAPER TOWEL DISPENSER / TRASH RECEPTACLE
- 1020.32 STAINLESS STEEL FRAMED MIRROR
- 1020.35 ROBE / TOWEL HOOK
- 1020.37 WALL-MOUNTED FOLDING SHOWER SEAT. PROVIDE BLOCKING IN WALL AS REQUIRED
- 1022.01 MODULAR WIRE MESH PARTITION SYSTEM
- 1022.02 WIRE MESH DOOR WITH SPIC CYLINDER LOCK
- 1040.02 FIRE EXTINGUISHER AND WALL BRACKET
- 1050.09 SCBA TANK STORAGE UNIT
- 1130.01 MICROWAVE
- 1130.02 REFRIGERATOR
- 1130.06 WASHING MACHINE
- 1130.07 CLOTHES DRYER
- 1130.09 GAS RANGE
- 1130.12 RANGE HOOD
- 1140.09 ICE MACHINE
- 1230.23 QUARTZ COUNTERTOP WITH SPLASH AS SHOWN
- 1230.24 QUARTZ COUNTERTOP
- 1250.04 BED (N.I.C.)
- 2240.01 WATER CLOSET. ORIENT FLUSH VALVE TOWARDS ACCESSIBLE SPACE AT ACCESSIBLE STALLS / RESTROOMS
- 2240.03 WALL-HUNG LAVATORY WITH CARRIER SHOWER HEAD
- 2240.09 MOP SINK
- 2240.12 UTILITY SINK
- 2240.19 WATER FOUNTAIN
- 2240.20 UNDERMOUNT SINK
- 2240.22 POT FILLER
- 2650.03 SURFACE-MOUNTED LIGHT FIXTURE
- 2650.04 PENDANT LIGHT FIXTURE
- 2650.21 CEILING FAN



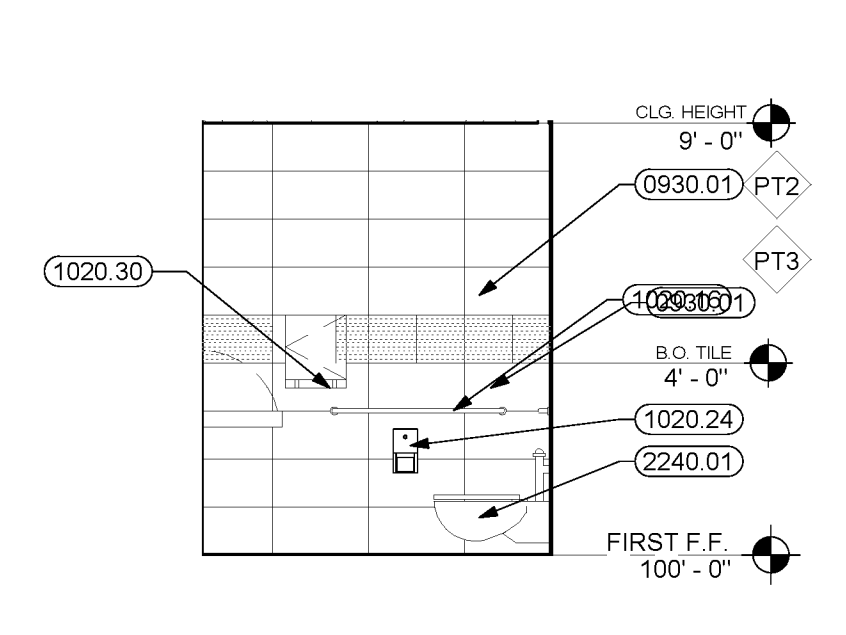
4 INTERIOR ELEVATION
1/4" = 1'-0"



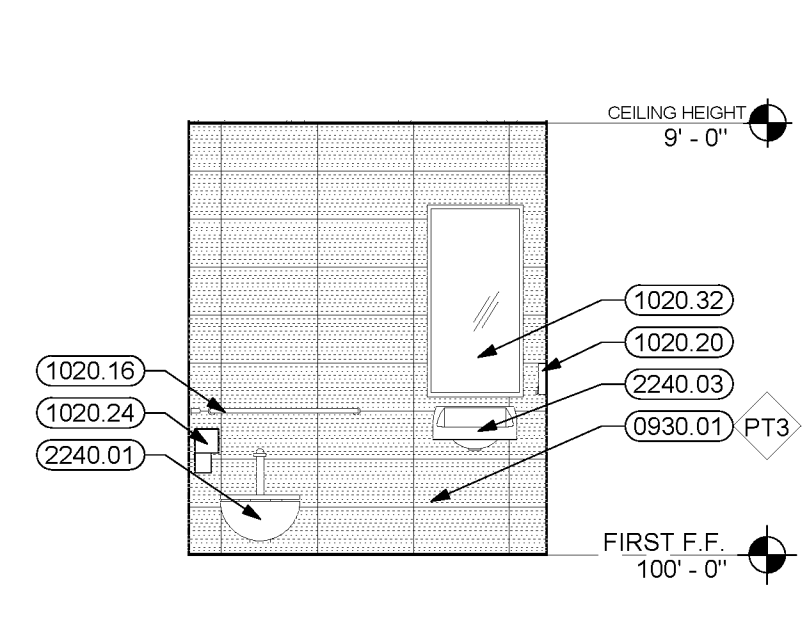
2 INT. ELEVATION - KITCHEN
1/4" = 1'-0"



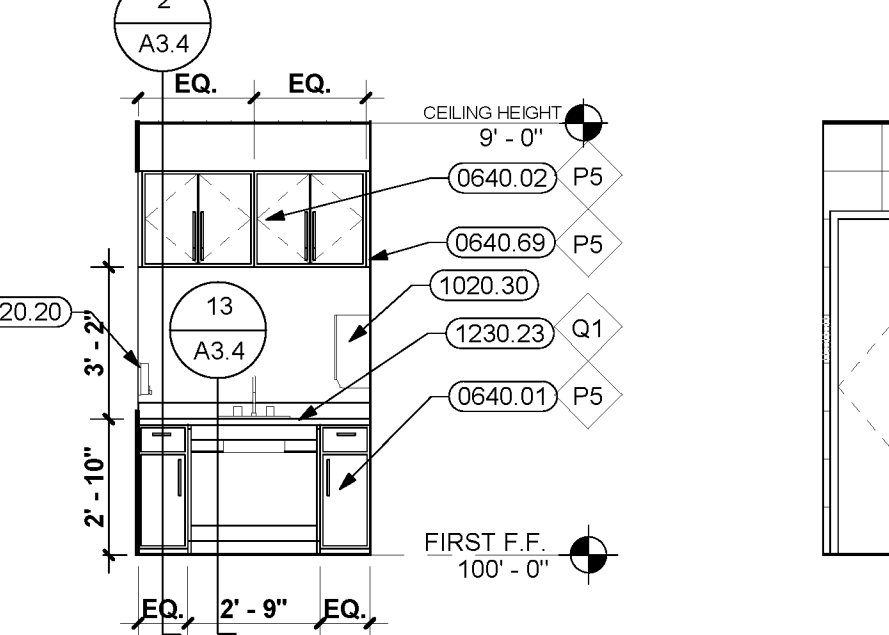
1 INTERIOR ELEVATION - KITCHEN/DAYROOM
1/4" = 1'-0"



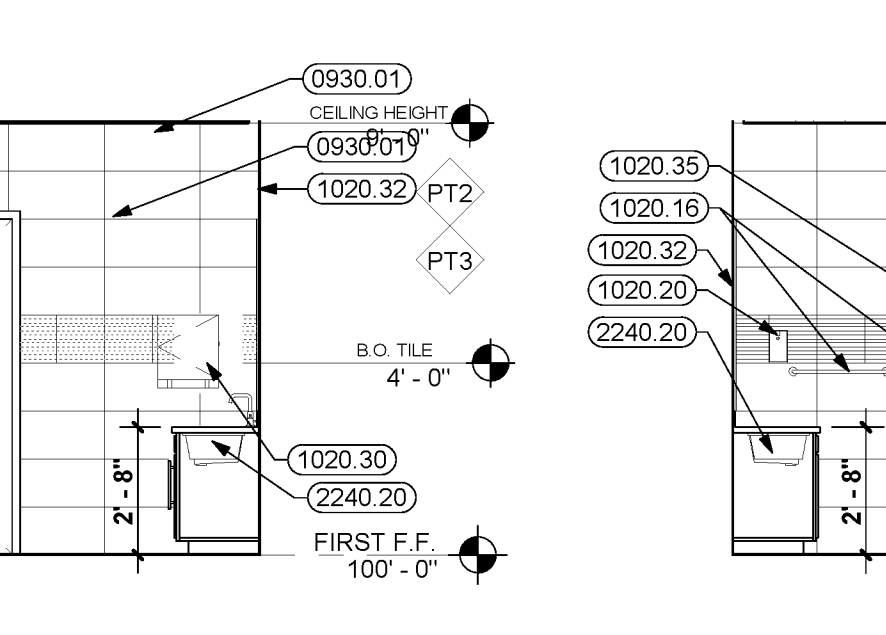
12 ELEV. - RESTROOM
1/4" = 1'-0"



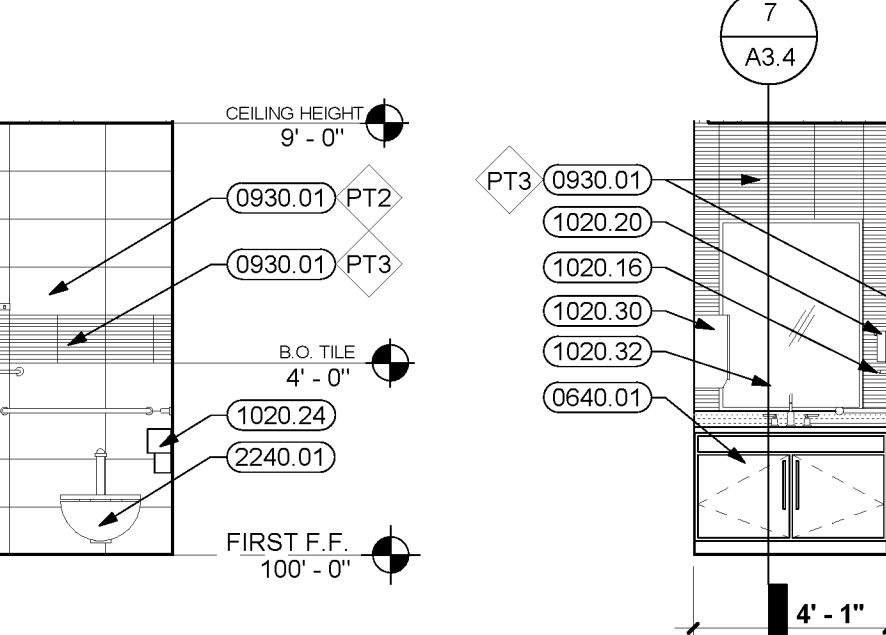
11 ELEV. - RESTROOM
1/4" = 1'-0"



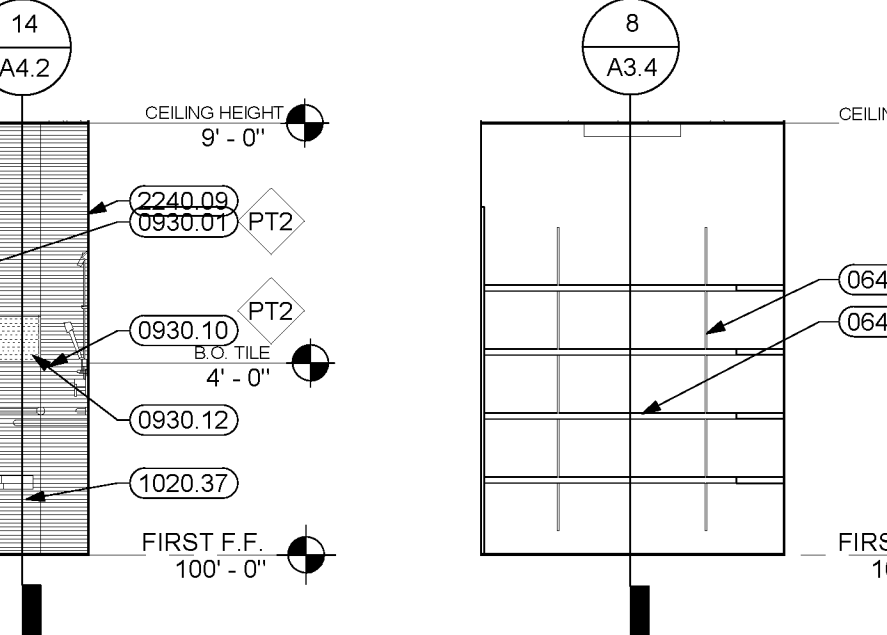
10 ELEV. - TREATMENT
1/4" = 1'-0"



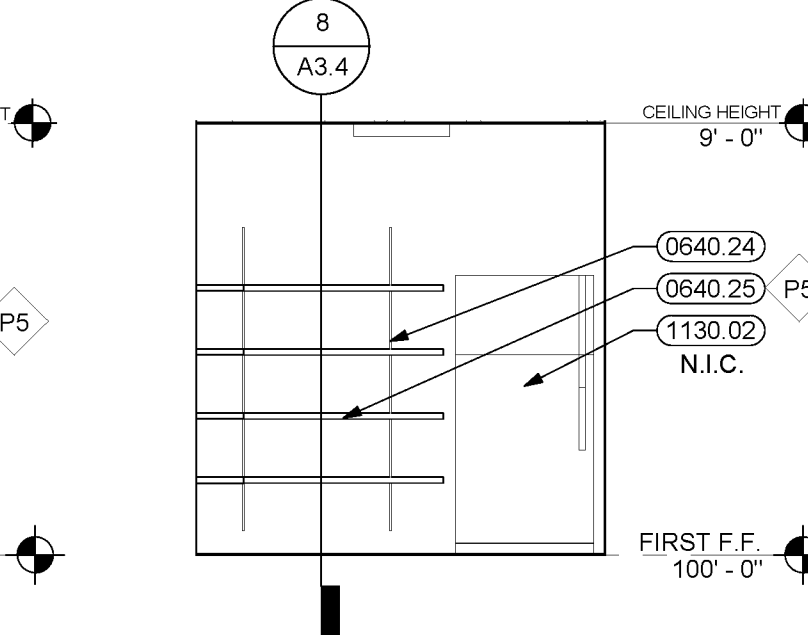
9 ELEV. - BATHROOM
1/4" = 1'-0"



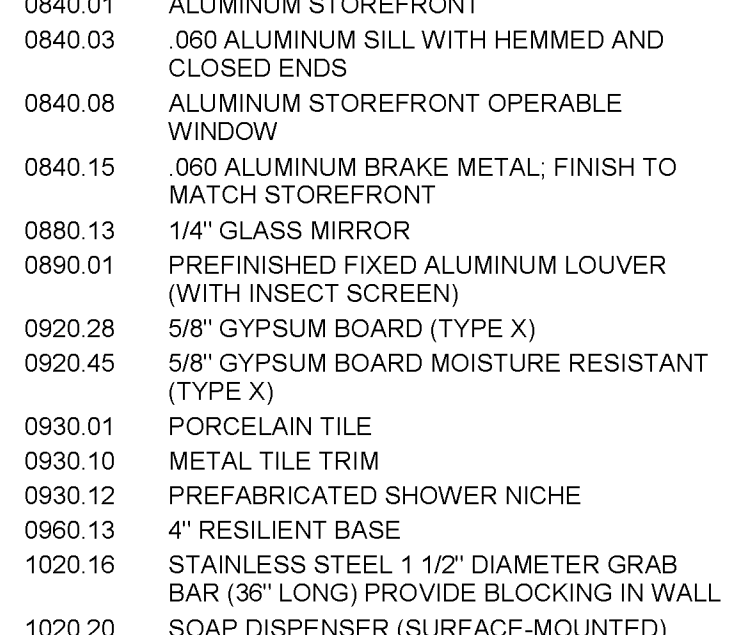
8 ELEV. - BATHROOM
1/4" = 1'-0"



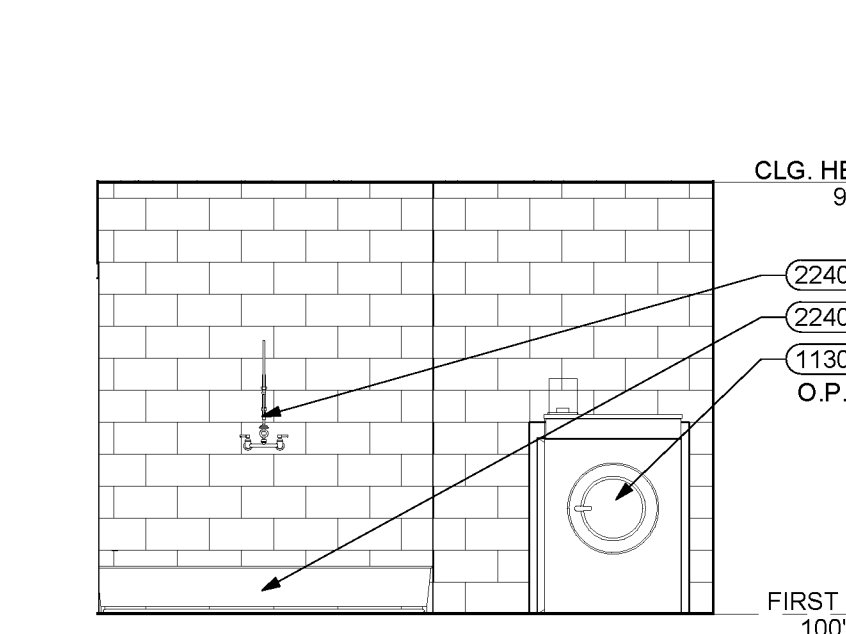
7 ELEV. - BATHROOM
1/4" = 1'-0"



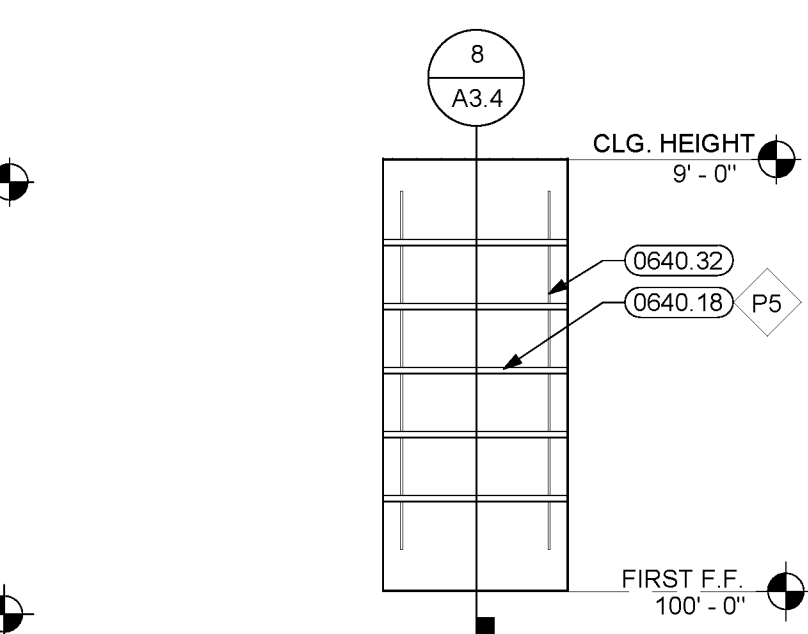
6 ELEV. - PANTRY
1/4" = 1'-0"



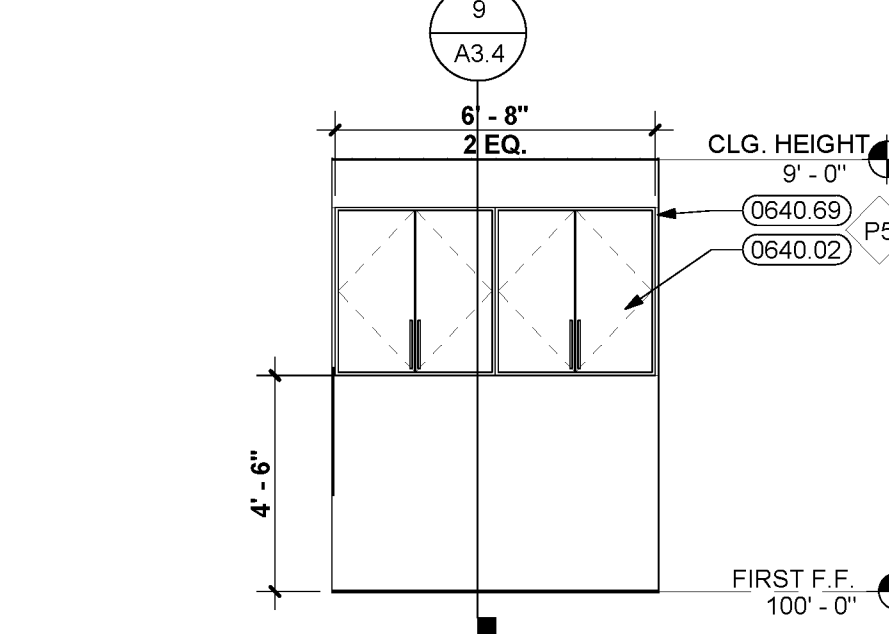
5 ELEV. - PANTRY
1/4" = 1'-0"



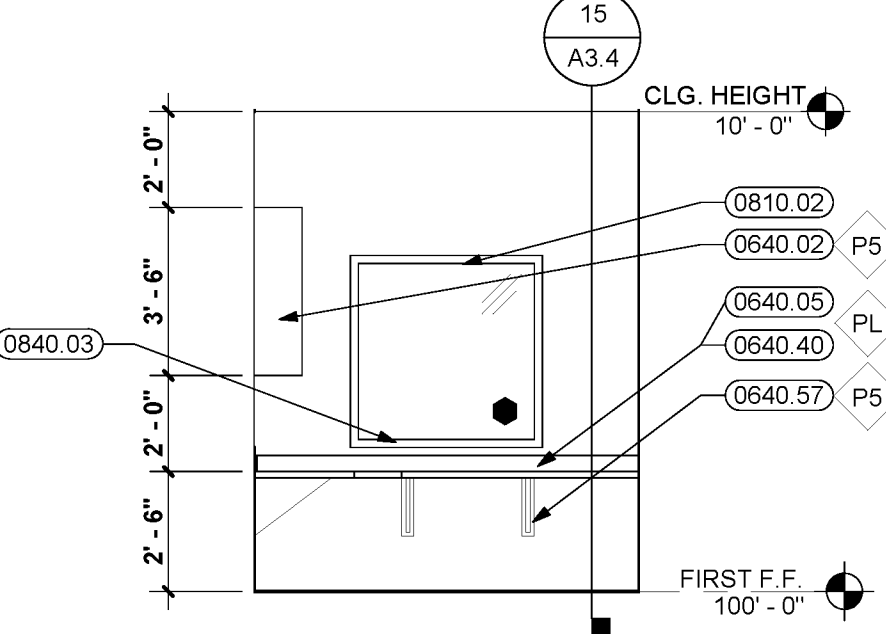
19 ELEV. - EMS DECON.
1/4" = 1'-0"



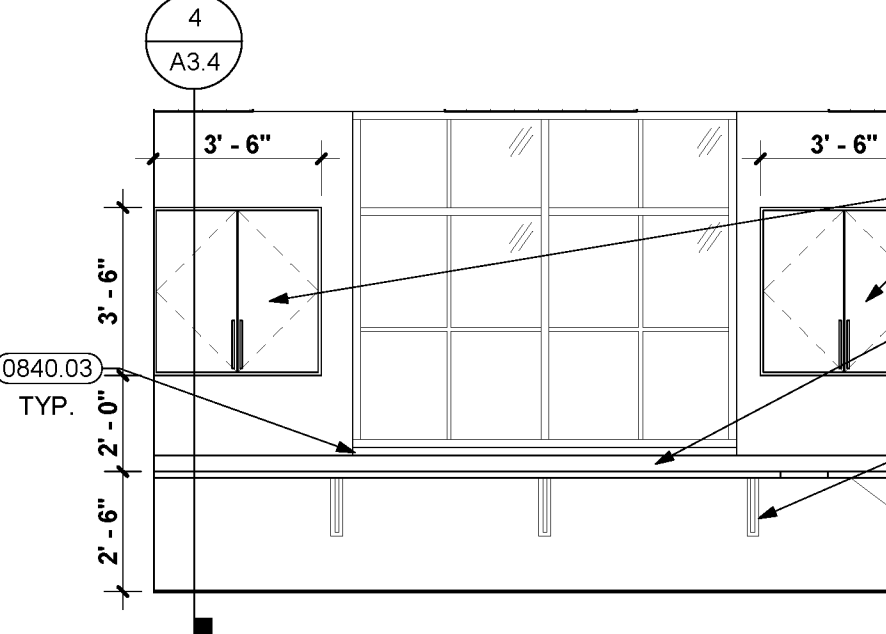
18 ELEV. - ESD STORAGE
1/4" = 1'-0"



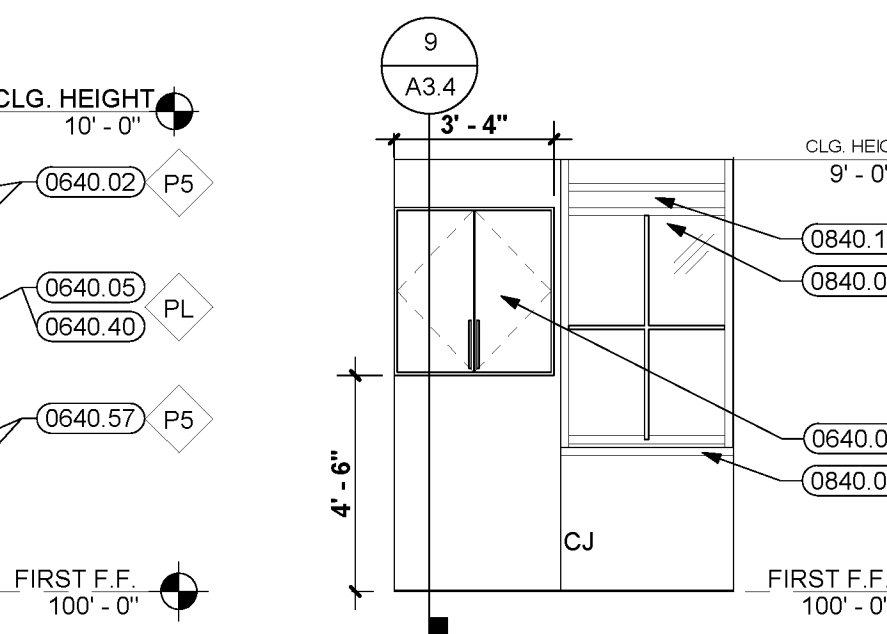
17 ELEV. - OFFICE
1/4" = 1'-0"



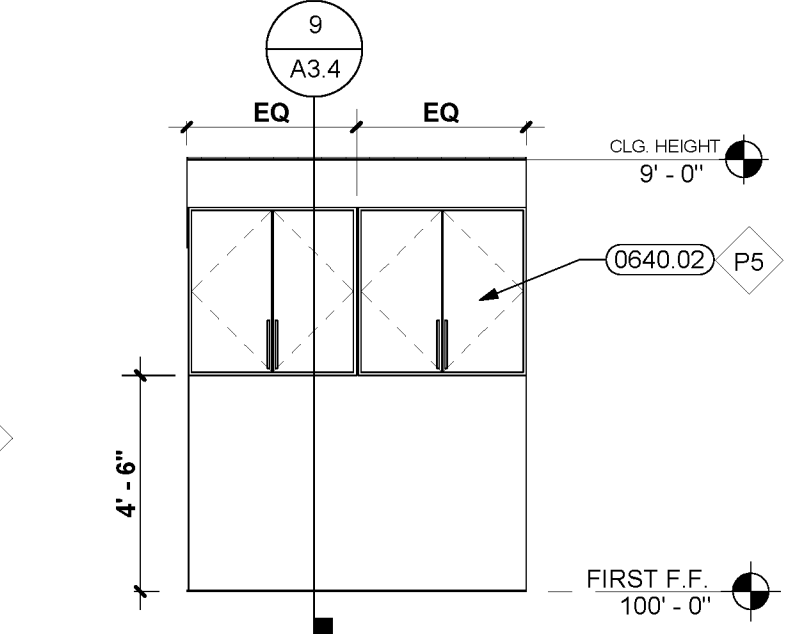
16 ELEV. - WATCH OFFICE
1/4" = 1'-0"



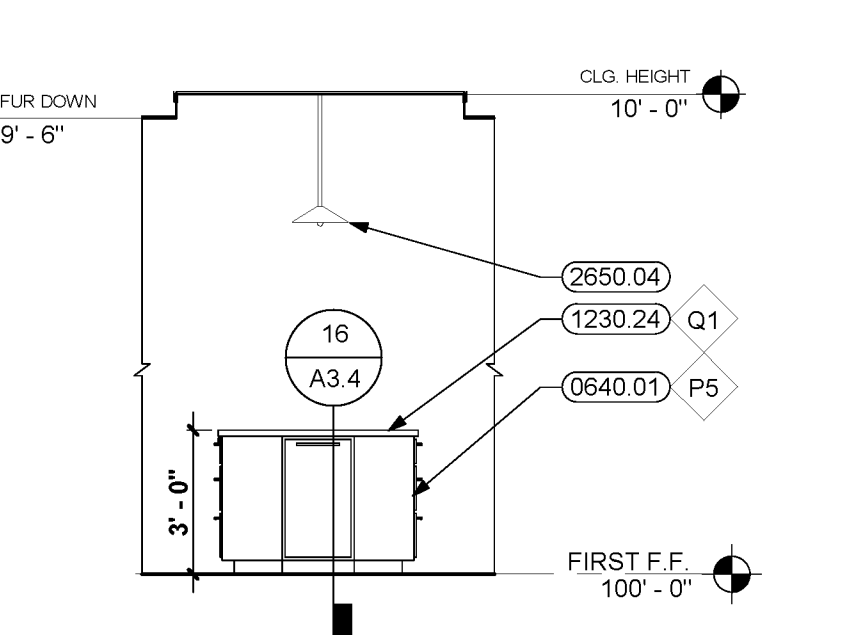
15 ELEV. - WATCH OFFICE
1/4" = 1'-0"



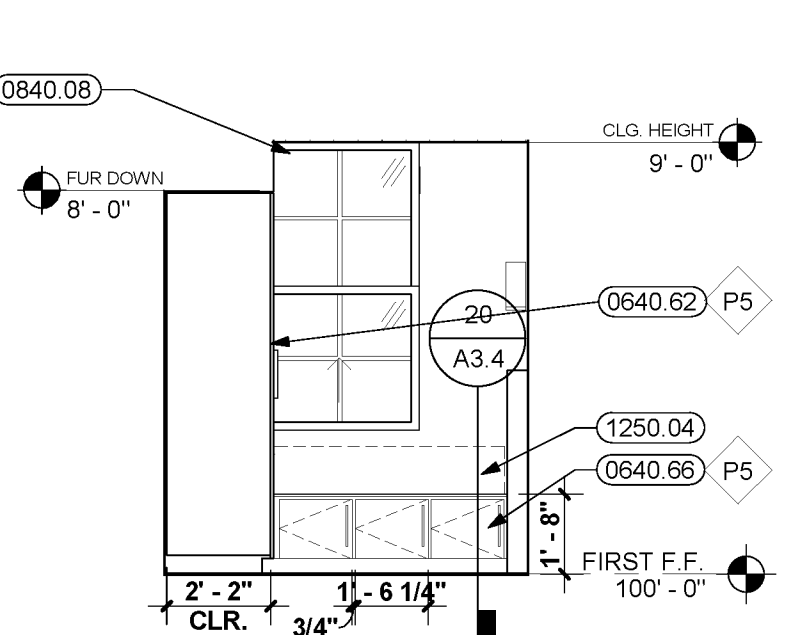
14 ELEV. - ESD OFFICE
1/4" = 1'-0"



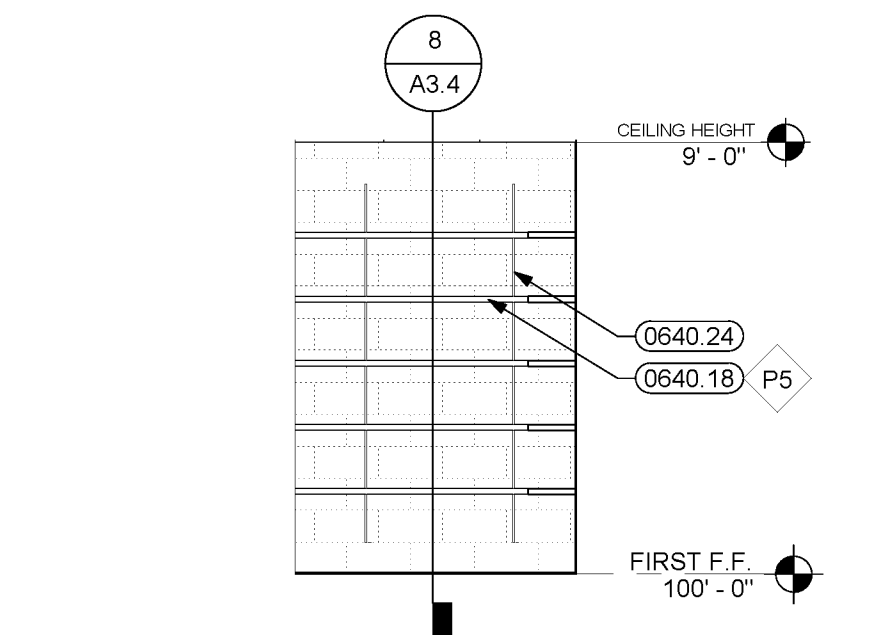
13 ELEV. - ESD OFFICE
1/4" = 1'-0"



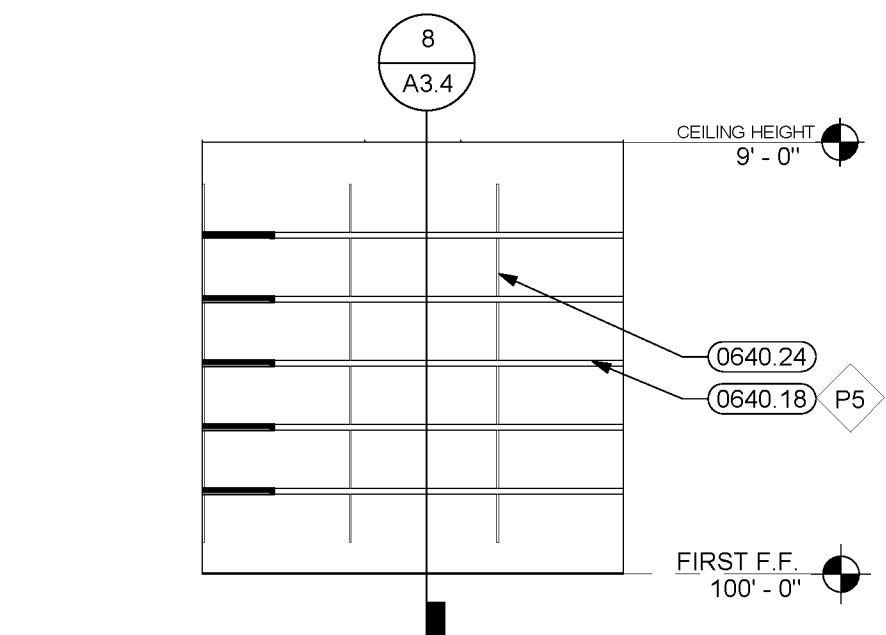
26 ELEV. - ISLAND
1/4" = 1'-0"



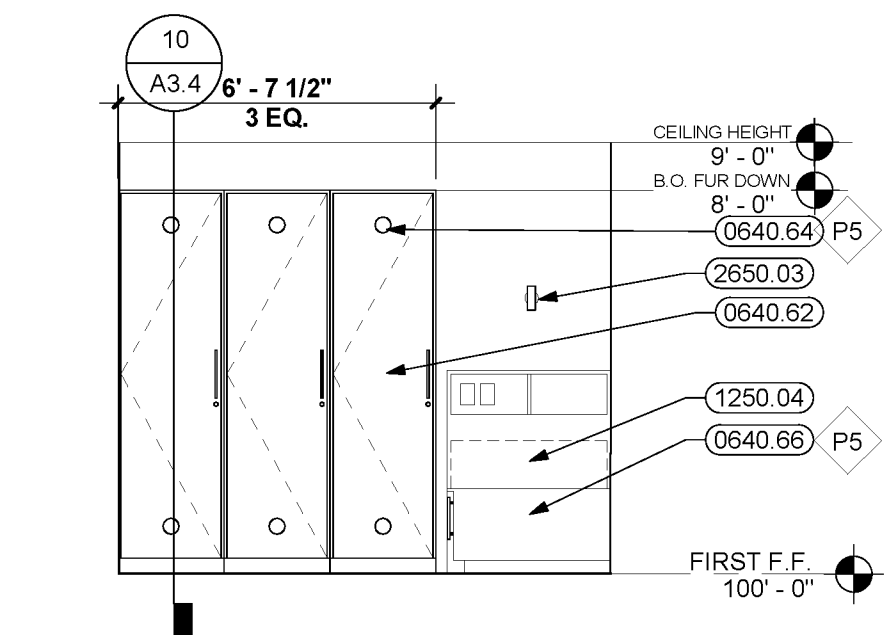
25 ELEV. - SLEEPING - NORTH
1/4" = 1'-0"



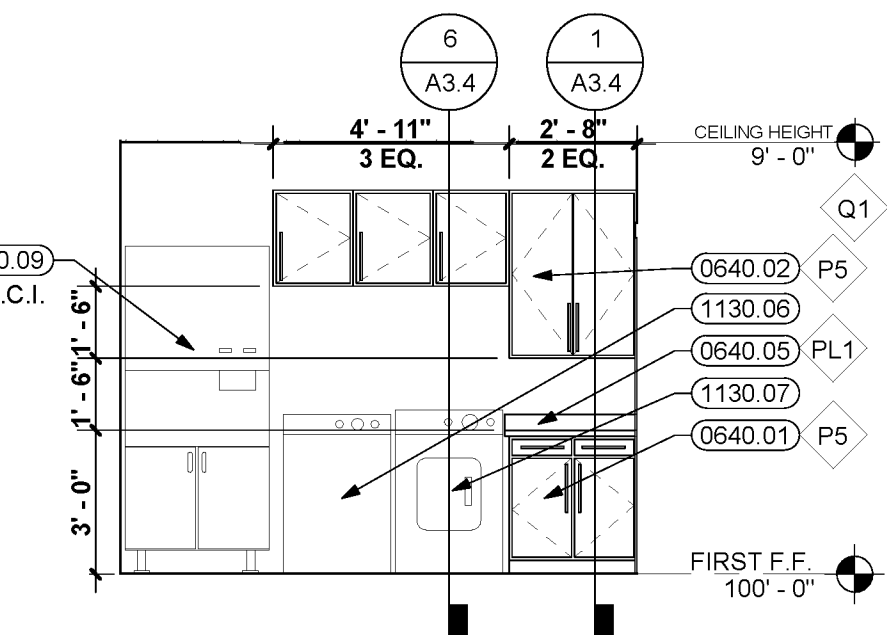
24 ELEV. - EMS STORAGE
1/4" = 1'-0"



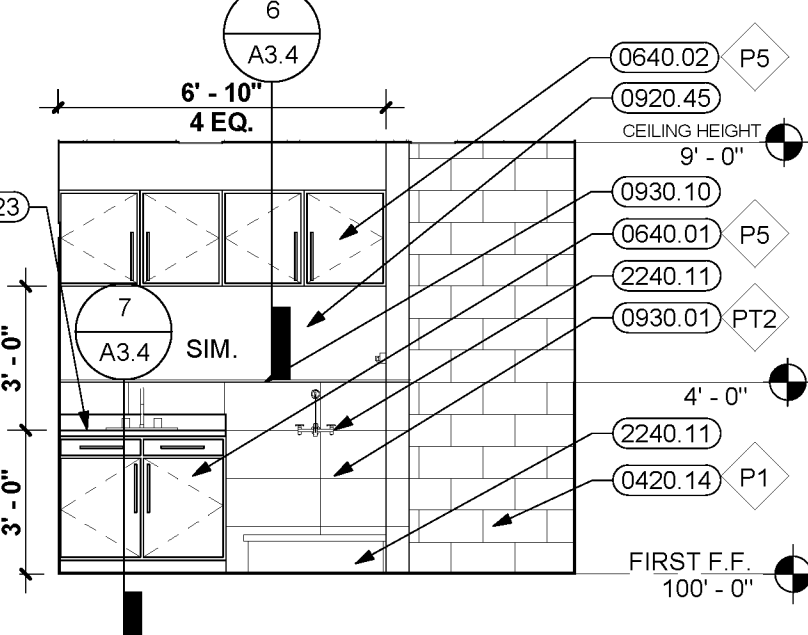
23 ELEV. - EMS STORAGE
1/4" = 1'-0"



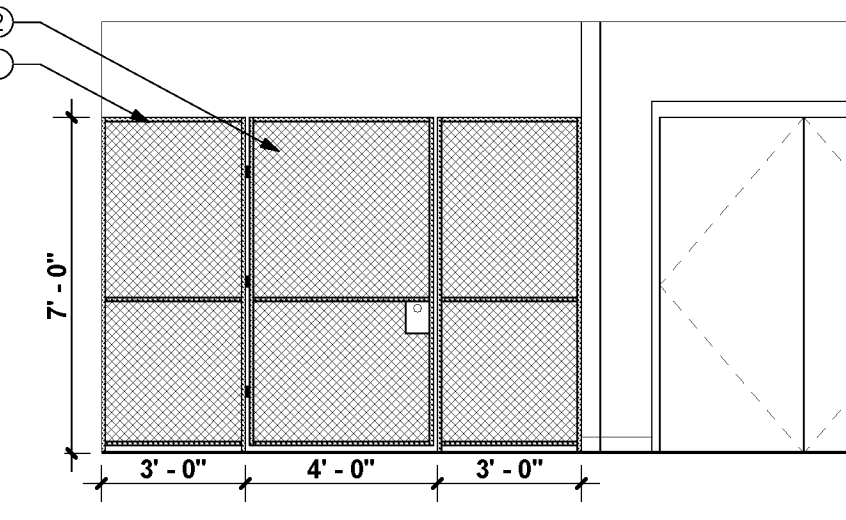
22 ELEV. - SLEEPING
1/4" = 1'-0"



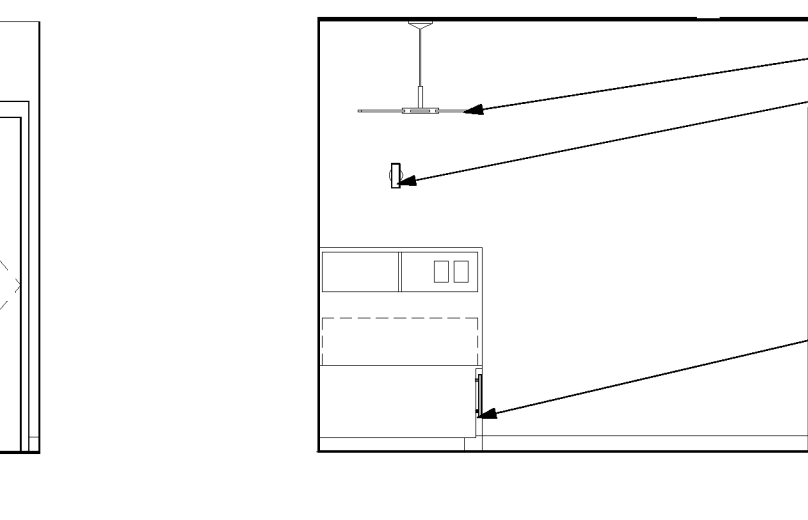
21 ELEV. - UTILITY
1/4" = 1'-0"



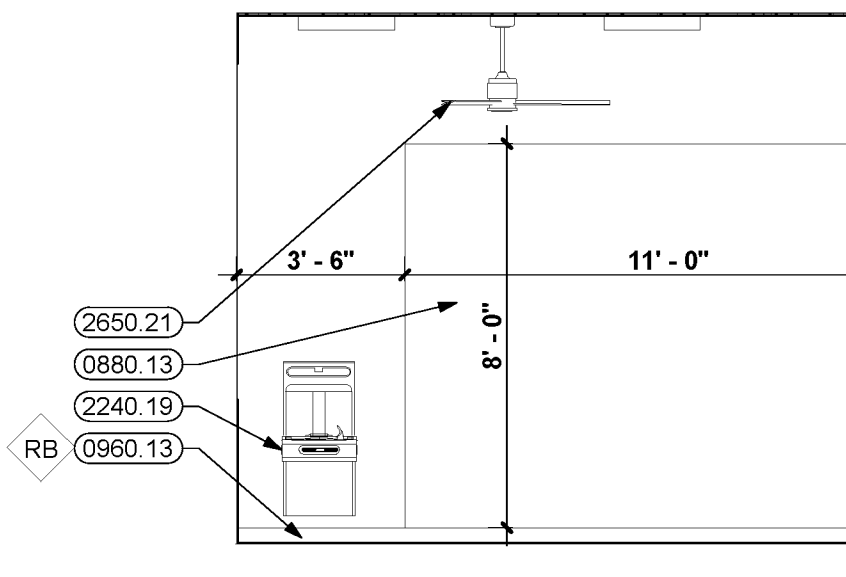
20 ELEV. - UTILITY
1/4" = 1'-0"



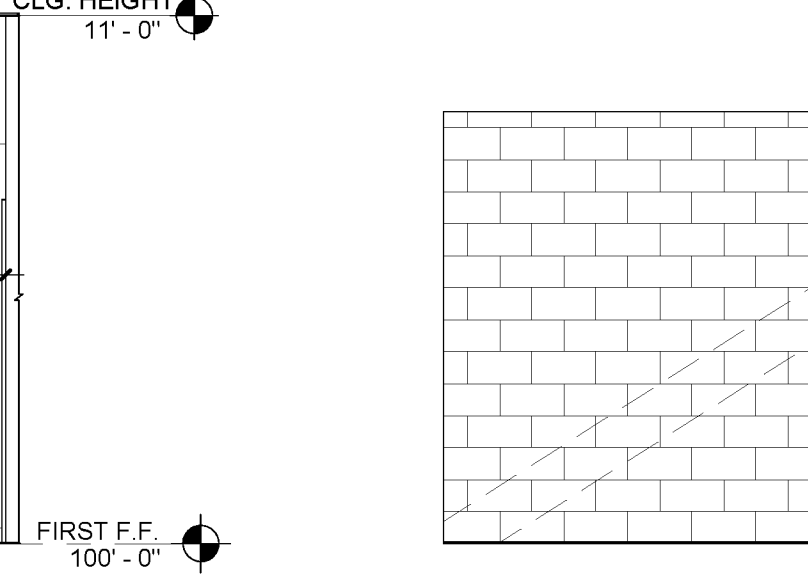
29 ELEV. STORAGE
1/4" = 1'-0"



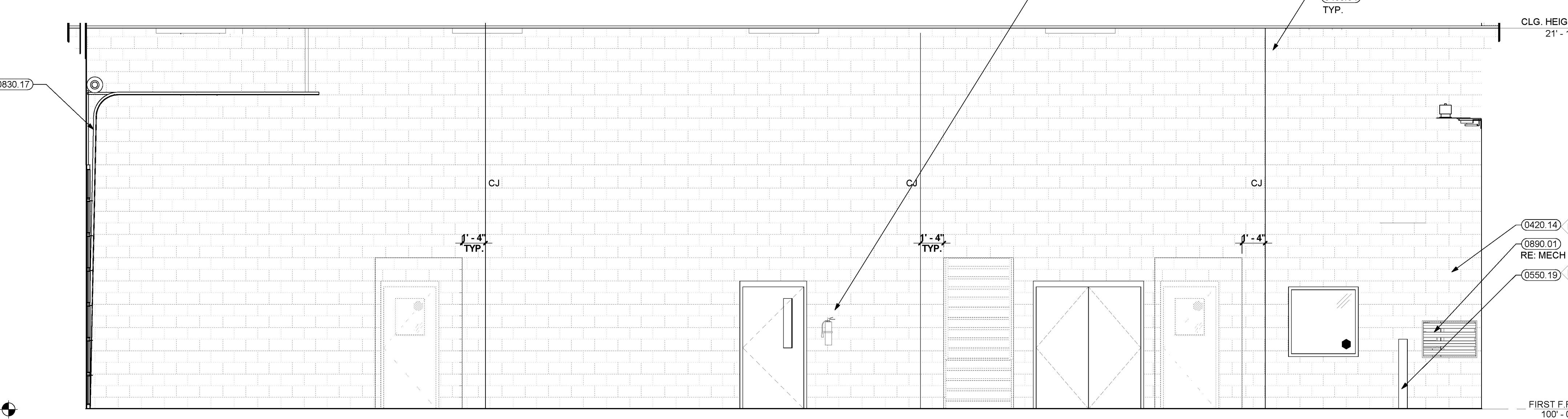
27 ELEV. - SLEEPING - EAST
1/4" = 1'-0"



31 ELEV. - WORKOUT ROOM
1/4" = 1'-0"



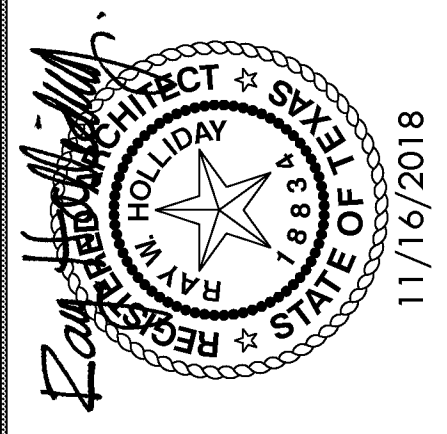
30 ELEV. - SCBA/SHOP - NORTH
1/4" = 1'-0"



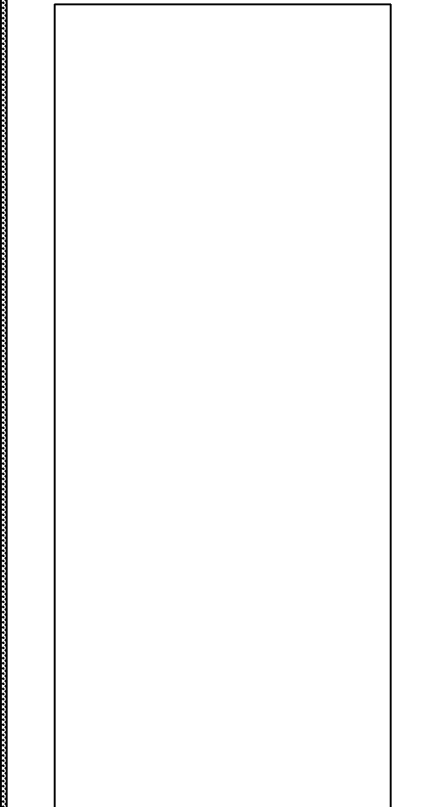
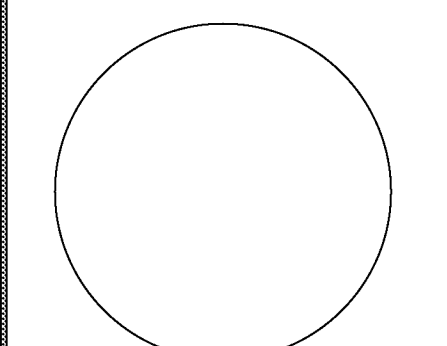
28 INT. ELEV. - APPARATUS BAYS
1/4" = 1'-0"

KEYNOTES

- 0610.02 1X WOOD BLOCKING
- 0610.03 2X WOOD BLOCKING
- 0610.09 2X WOOD STUDS AT 16" O.C.
- 0610.32 2X WOOD FRAMING (RE. STRUCTURAL)
- 0610.37 2 X 4 WOOD FRAMING
- 0640.07 3/4" PLYWOOD
- 0640.08 3/4" HARDWOOD VENEER PLYWOOD
- 0640.09 1/2" HARDWOOD VENEER PLYWOOD
- 0640.17 DRAWER GLIDE
- 0640.18 ADJUSTABLE SHELVING
- 0640.21 3" WIRE GROMMET
- 0640.22 CABINET FULLS
- 0640.24 ADJUSTABLE METAL SHELF STANDARDS
- 0640.25 PROVIDE BLOCKING IN WALL AS REQUIRED
- 0640.25 HARDWOOD VENEER PLYWOOD SHELVES (5) ON ADJUSTABLE METAL STANDARDS
- 0640.25 PROVIDE BLOCKING IN WALL AS REQUIRED
- 0640.40 PLASTIC LAMINATE DESK
- 0640.47 TDE KICK
- 0640.48 HEAVY DUTY COAT ROD
- 0640.57 HARDWOOD VENEER SUPPORT BRACKET
- 0640.58 HARDWOOD VENEER CABINET BACK
- 0640.59 HARDWOOD VENEER PLYWOOD SHELF
- 0640.60 HARDWOOD VENEER REMOVABLE ACCESS PANEL
- 0640.61 HARDWOOD VENEER DRAWER
- 0640.64 4" GROMMET WITH AIR VENT GROMMET CAP
- 0640.65 3/4" HARDWOOD VENEER COMBINATION-CORE PLYWOOD
- 0790.02 CAULKING
- 0920.28 5/8" GYPSUM BOARD (TYPE X)
- 0920.35 CORNER BEAD, TYPICAL
- 0960.13 4" RESILIENT BASE
- 1020.34 VINYL-COATED PIPING WRAP
- 1020.36 COAT HOOK
- 1130.01 MICROWAVE
- 1130.11 FOOD DISPOSAL
- 1230.23 QUARTZ COUNTERTOP WITH SPLASH AS SHOWN
- 1230.24 QUARTZ COUNTERTOP
- 2240.05 STAINLESS STEEL UNDERMOUNT SINK
- 2609.01 LIGHTING CONTROL SWITCH
- 2620.04 ELECTRICAL OUTLET
- 2650.01 RECESSED LIGHT FIXTURE
- 2650.09 UNDER CABINET LIGHT



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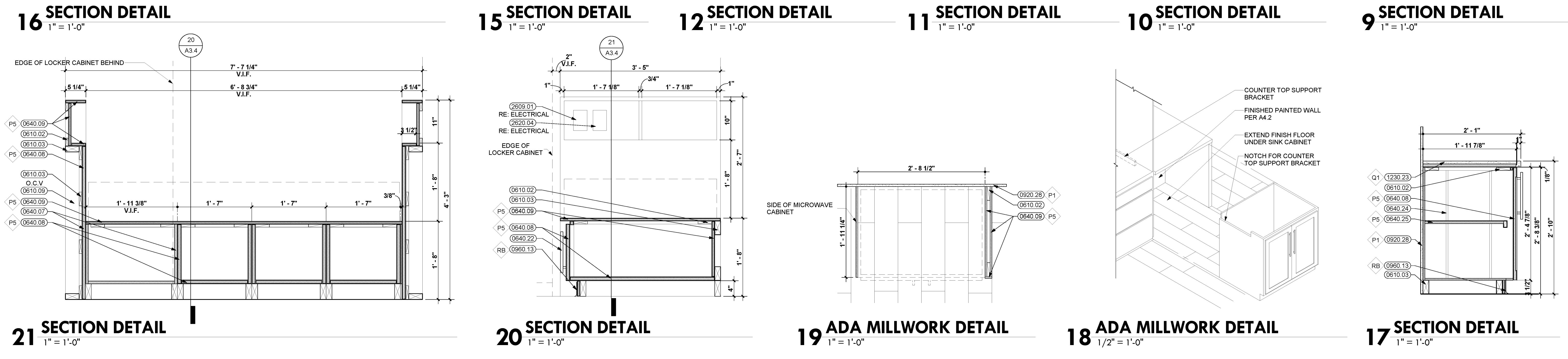
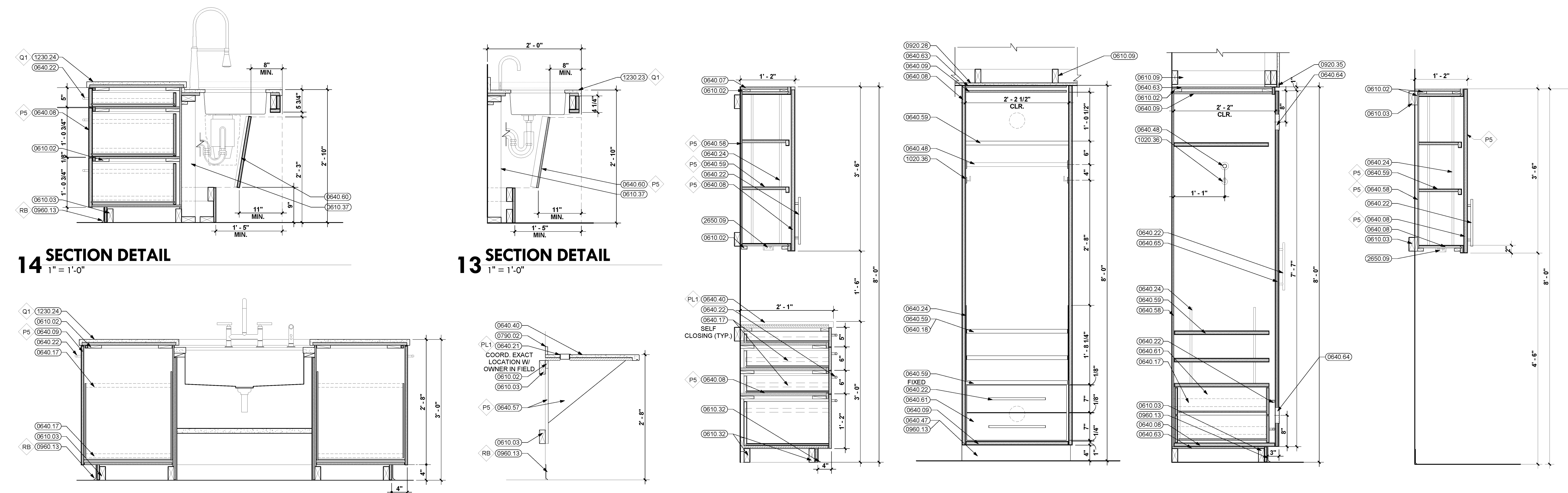
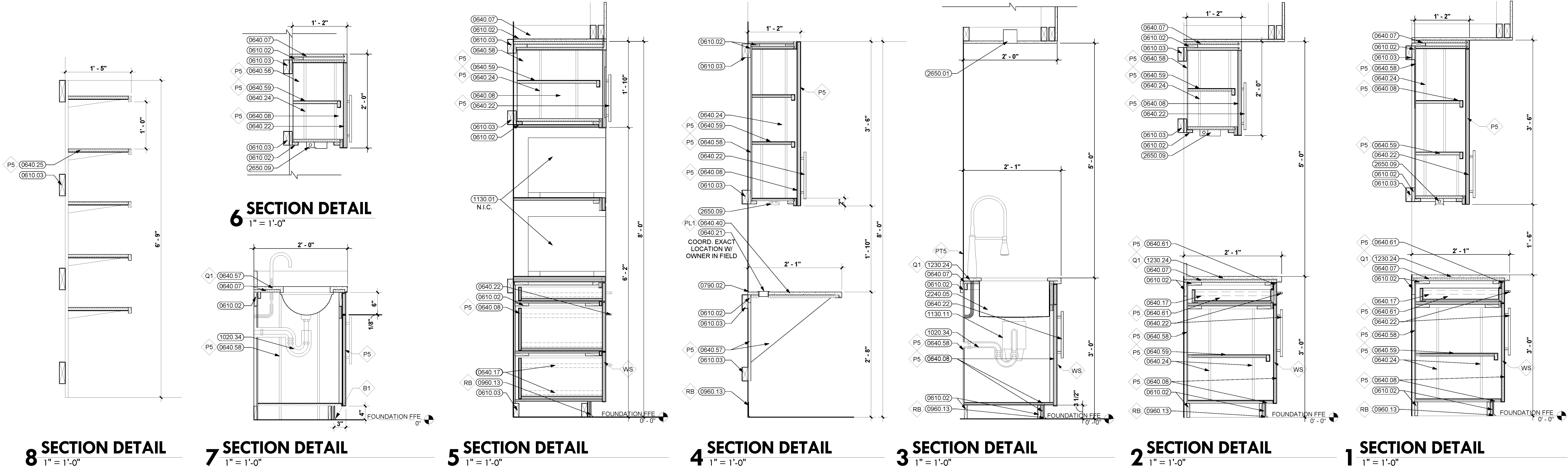
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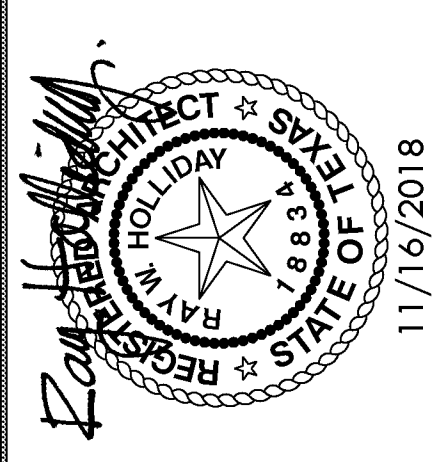
CITY OF GEORGETOWN
 FIRE STATION No. 6
 6700 R.M. 2338
 GEORGETOWN, TX, 78633

NO.	REVISION	DATE

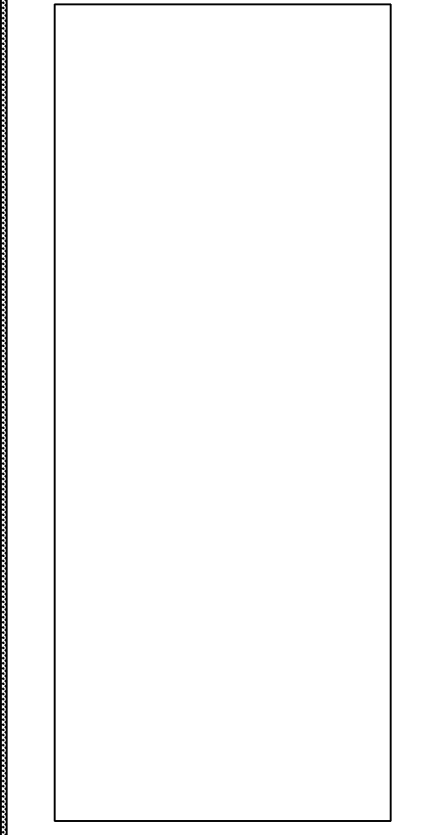
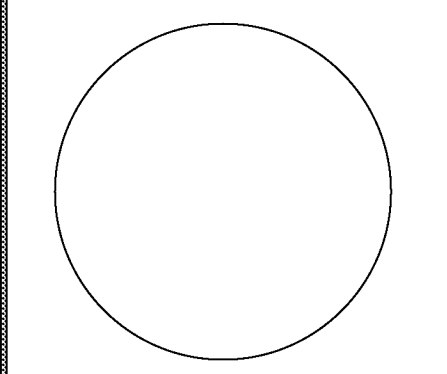
A3.4

MILLWORK SECTIONS





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 172 CENTURY SQUARE DRIVE
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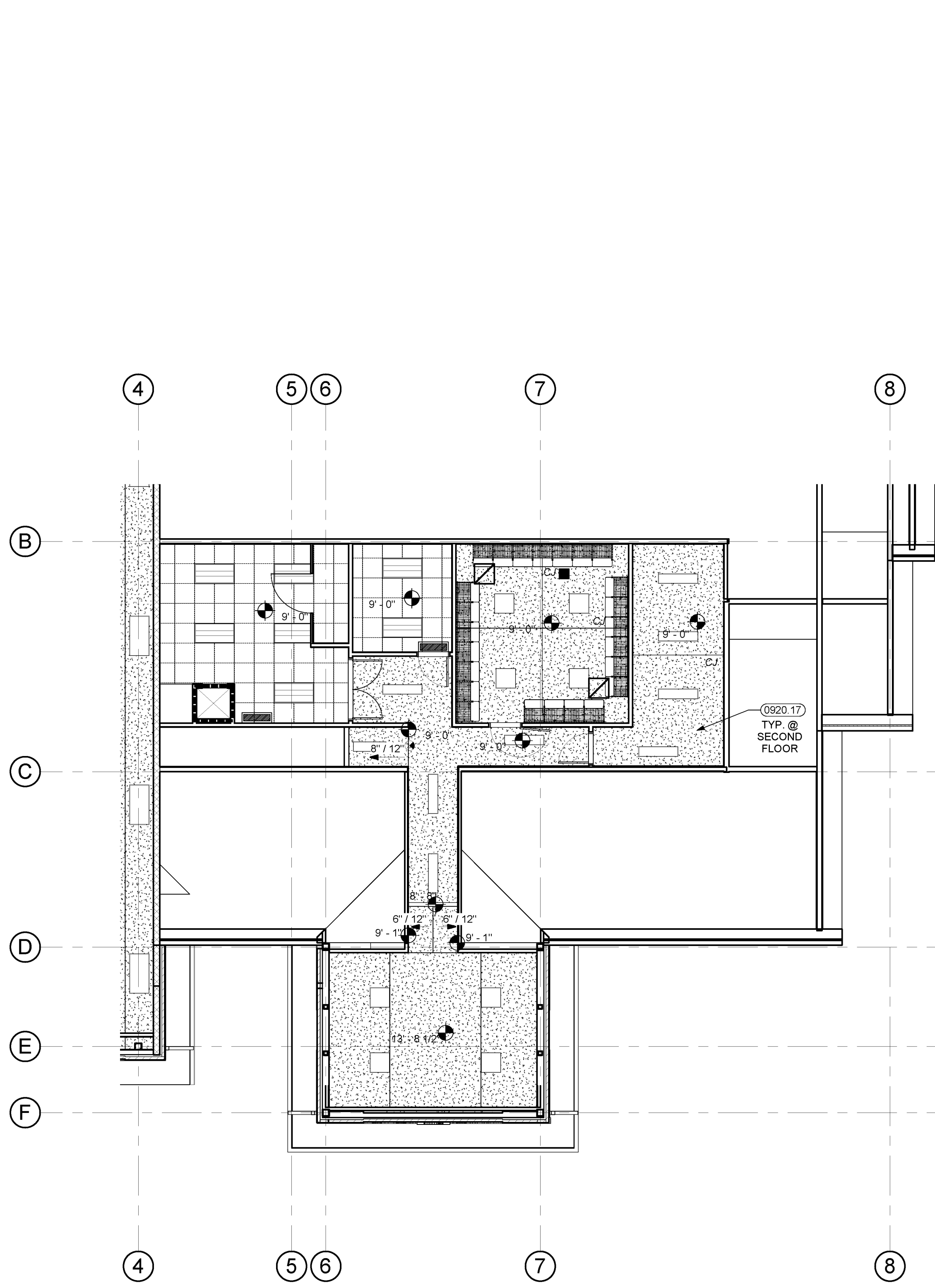
A4.1
 REFLECTED CEILING PLAN

KEYNOTES

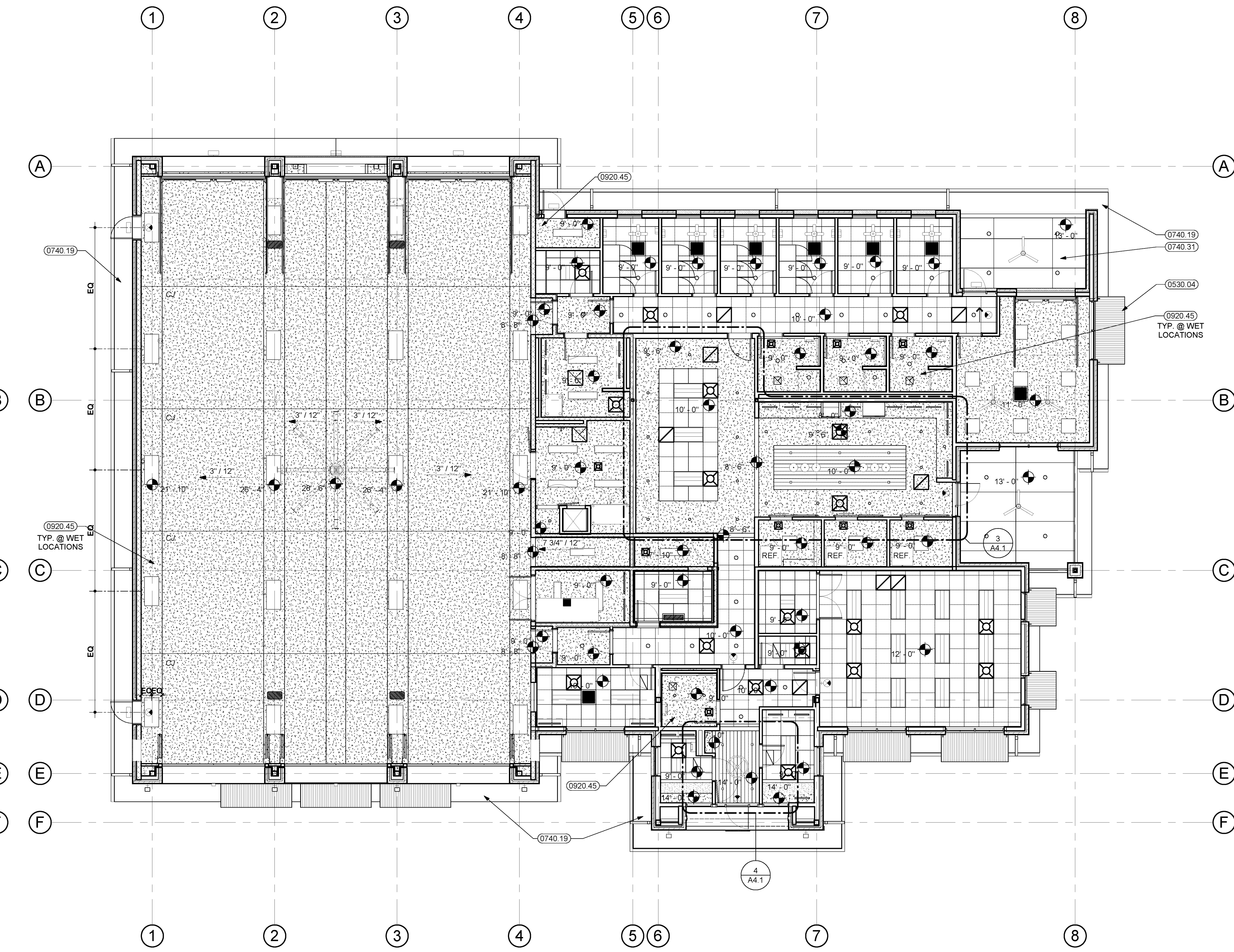
- 0530.03 FILL WITH GROUT
- 0420.02 HORIZONTAL REINFORCING AT 16" O.C. VERTICALLY
- 0420.13 6" CONCRETE MASONRY UNITS
- 0420.14 8" CONCRETE MASONRY UNITS
- 0420.23 CONCRETE MASONRY BOND BEAM
- 0420.24 VERTICAL REINFORCING IN CONCRETE MASONRY UNITS (RE. STRUCTURAL)
- 0530.04 METAL ROOF DECK (RE. STRUCTURAL)
- 0610.01 SHIM AS REQUIRED
- 0610.03 2X WOOD BLOCKING
- 0610.09 2 X 4 WOOD STUDS AT 16" O.C.
- 0610.10 2 X 6 WOOD STUDS AT 16" O.C.
- 0610.29 2X WOOD FURRING STRIPS
- 0610.37 2 X 4 WOOD FRAMING
- 0740.19 FIBER REINFORCED CEMENTITIOUS VENTED SOFFIT PANEL AND TRIMS
- 0740.31 FIBER REINFORCED CEMENTITIOUS SOFFIT PANEL AND TRIMS
- 0790.01 SEALANT WITH BACKER ROD AS REQUIRED
- 0810.04 HOLLOW METAL DOOR AND FRAME
- 0920.17 5/8" GYPSUM BOARD ON METAL SUSPENSION SYSTEM
- 0920.28 5/8" GYPSUM BOARD (TYPE X)
- 0920.35 CORNER BEAD, TYPICAL
- 0920.36 J-MOULD, TYPICAL
- 0920.37 GYPSUM BOARD CONTROL JOINT
- 0920.38 PRE-MANUFACTURED CONTINUOUS ALUMINUM F REVEAL MOLDING
- 0920.45 5/8" GYPSUM BOARD MOISTURE RESISTANT (TYPE X)
- 0950.01 SUSPENDED ACOUSTICAL LAY-IN TILE CEILING (2' X 2')
- 0950.06 SUSPENDED LINEAR WOOD CEILING SYSTEM
- 0980.03 3 1/2" FIBERGLASS SOUND ATTENUATION INSULATION
- 2650.01 RECESSED LIGHT FIXTURE
- 2650.04 PENDANT LIGHT FIXTURE

LEGEND

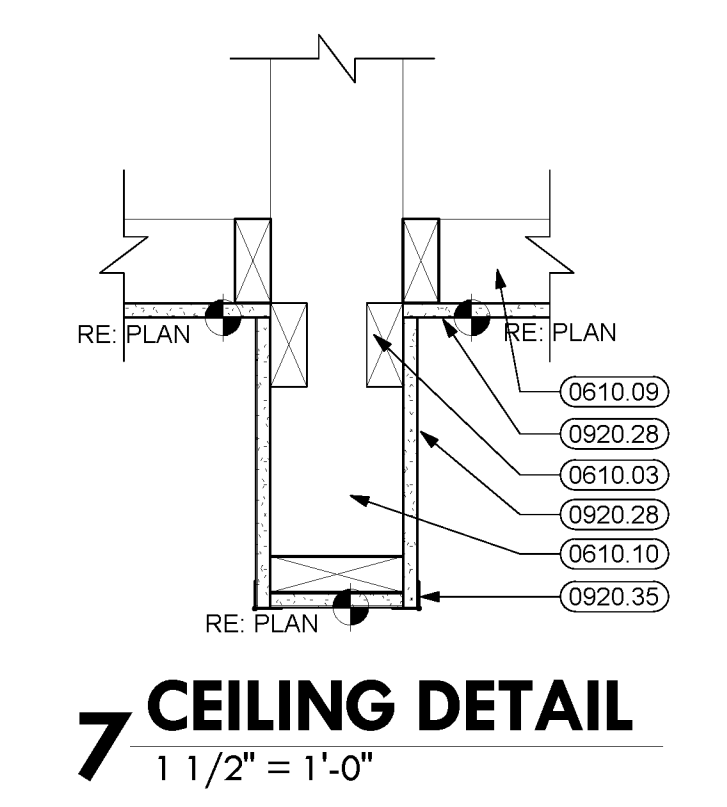
	SUPPLY AIR DIFFUSER
	RETURN AIR/EXHAUST GRILLE
	CEILING ACCESS PANEL
	EXHAUST FAN
	WALL MOUNTED MINI-SPLIT
	2 X 2 VRV CASSETTE
	GAS UNIT HEATER
	2 X 2 LAY-IN LED LIGHT FIXTURE
	2 X 2 LAY-IN LED LIGHT FIXTURE W/ EMERGENCY ILLUMINATION
	2 X 4 LAY-IN LED LIGHT FIXTURE
	2 X 4 LAY-IN LED LIGHT FIXTURE W/ EMERGENCY ILLUMINATION
	1 X 4 SURFACE MOUNTED LED LIGHT FIXTURE
	1 X 4 SURFACE MOUNTED LED LIGHT FIXTURE W/ EMERGENCY ILLUMINATION
	2 X 4 HIGH-BAY SURFACE MOUNTED LED LIGHT FIXTURE
	2 X 4 HIGH-BAY SURFACE MOUNTED LED LIGHT FIXTURE W/ EMERGENCY ILLUMINATION
	2 X 2 RECESSED LED LIGHT FIXTURE
	2 X 2 RECESSED LED LIGHT FIXTURE W/ EMERGENCY ILLUMINATION
	6" RECESSED LED CAN LIGHT
	6" RECESSED LED CAN LIGHT W/ EMERGENCY ILLUMINATION
	4" RECESSED LED CAN LIGHT
	4" RECESSED LED CAN LIGHT W/ EMERGENCY ILLUMINATION
	6" RECESSED LED CAN LIGHT (WET LOCATIONS)
	4" SQUARE RECESSED LED LIGHT
	4" SQUARE RECESSED LED LIGHT W/ EMERGENCY ILLUMINATION
	4" RECESSED LED LINEAR VANITY LIGHT W/ DRYWALL TRIM KIT
	8" RECESSED LED LINEAR VANITY LIGHT W/ DRYWALL TRIM KIT
	UNDERCABINET LED LIGHT
	SURFACE MOUNTED LED STRIP (PLIGHT) (TOWER WINDOW SILLS)
	EXTERIOR WALL MOUNTED LED LIGHT W/ EMERGENCY ILLUMINATION
	EXTERIOR RECESSED WALL LED LIGHT
	CEILING MOUNTED EXIT LIGHT
	BACK MOUNTED EXIT LIGHT
	KITCHEN LED PENDANT
	LOBBY LED PENDANT
	WALL MOUNTED, RECESSED LED FLEXIBLE LIGHT
	WALL MOUNTED BACK-LIT LED SIGNAGE
	14" DIAMETER HIGH VOLUME, LOW SPEED FAN
	36" CEILING FAN
	52" CEILING FAN (OUTDOOR RATED)
	T&G LINEAR WOOD CEILING STAINED TO MATCH MILLWORK/DOORS
	2X2 ACOUSTICAL CEILING TILES & GRID, TYP.
	GYPSUM BOARD CEILING W/ CONTROL JOINTS (CJ) AT SPECIFIED LOCATIONS, TYP.



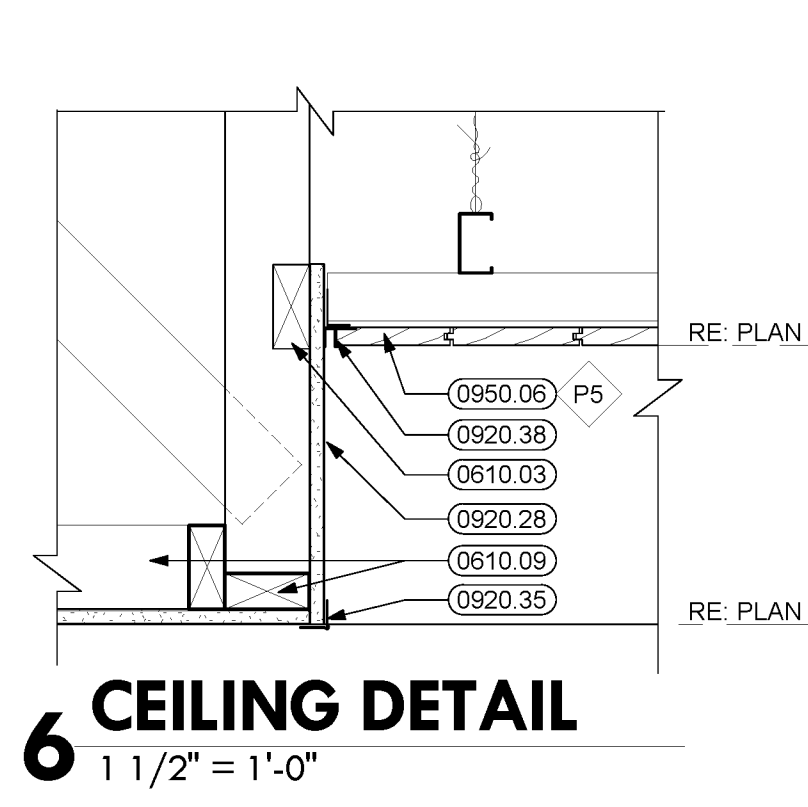
2 SECOND FLOOR REFLECTED CEILING PLAN
 1/8" = 1'-0"



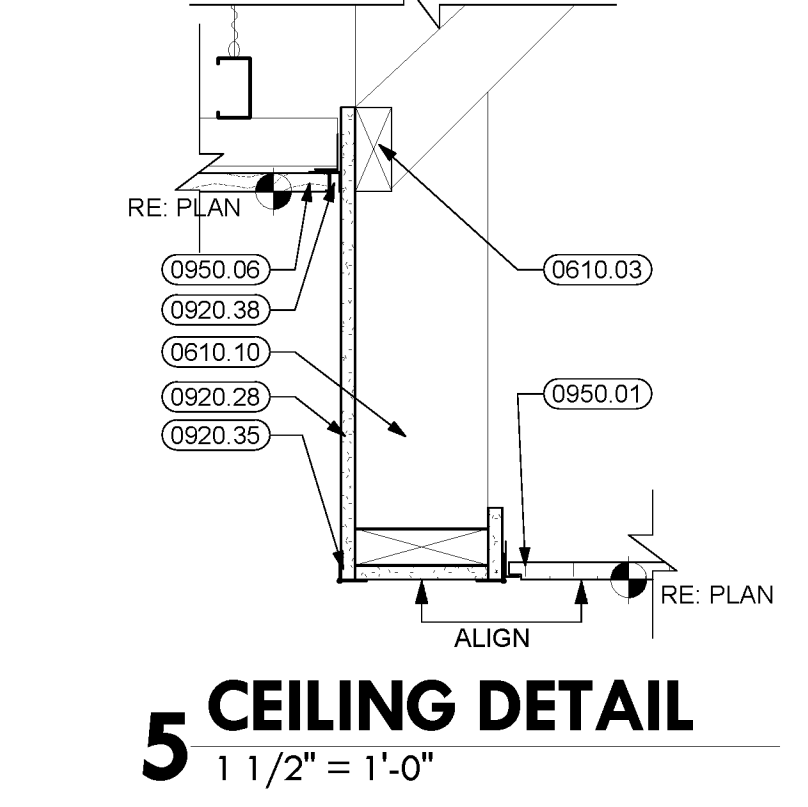
1 FIRST FLOOR REFLECTED CEILING PLAN
 1/8" = 1'-0"



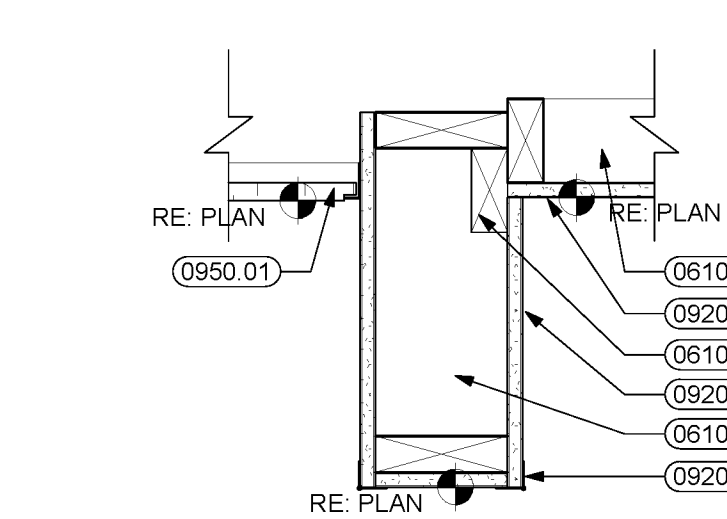
7 CEILING DETAIL
 1 1/2" = 1'-0"



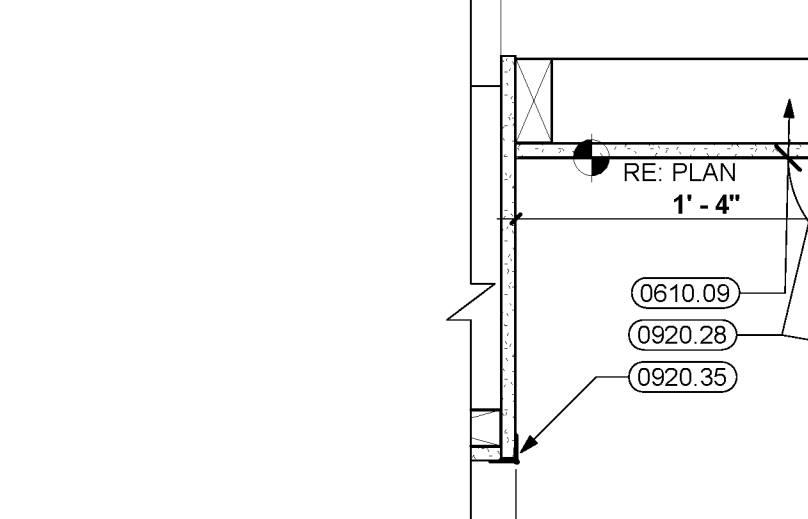
6 CEILING DETAIL
 1 1/2" = 1'-0"



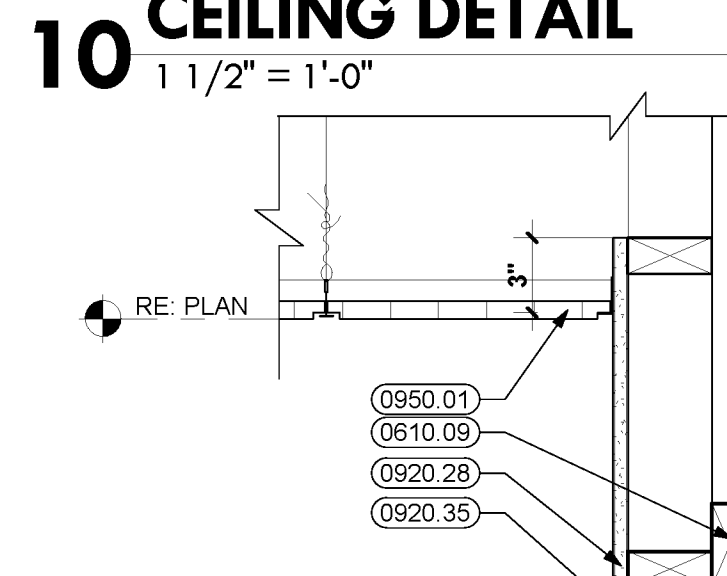
5 CEILING DETAIL
 1 1/2" = 1'-0"



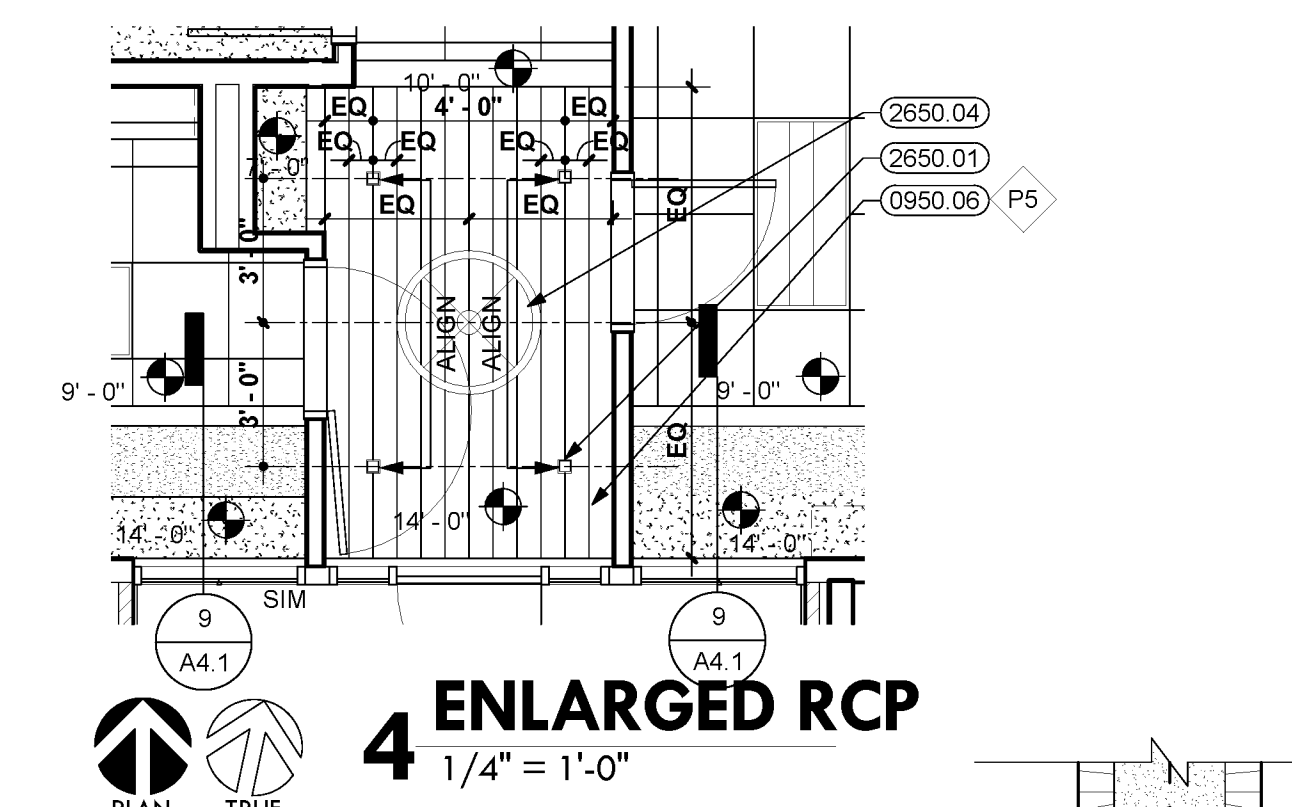
10 CEILING DETAIL
 1 1/2" = 1'-0"



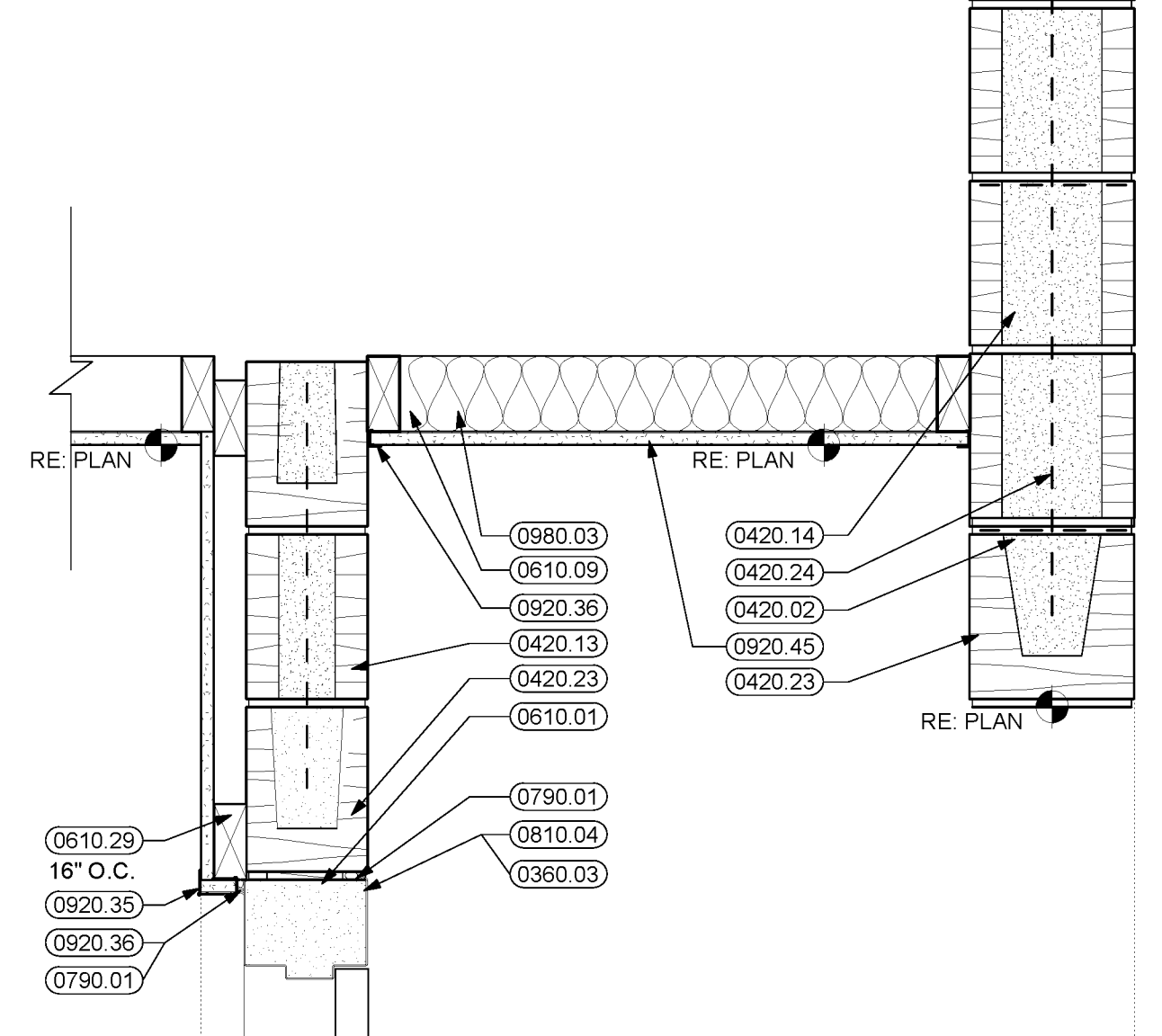
9 CEILING DETAIL
 1 1/2" = 1'-0"



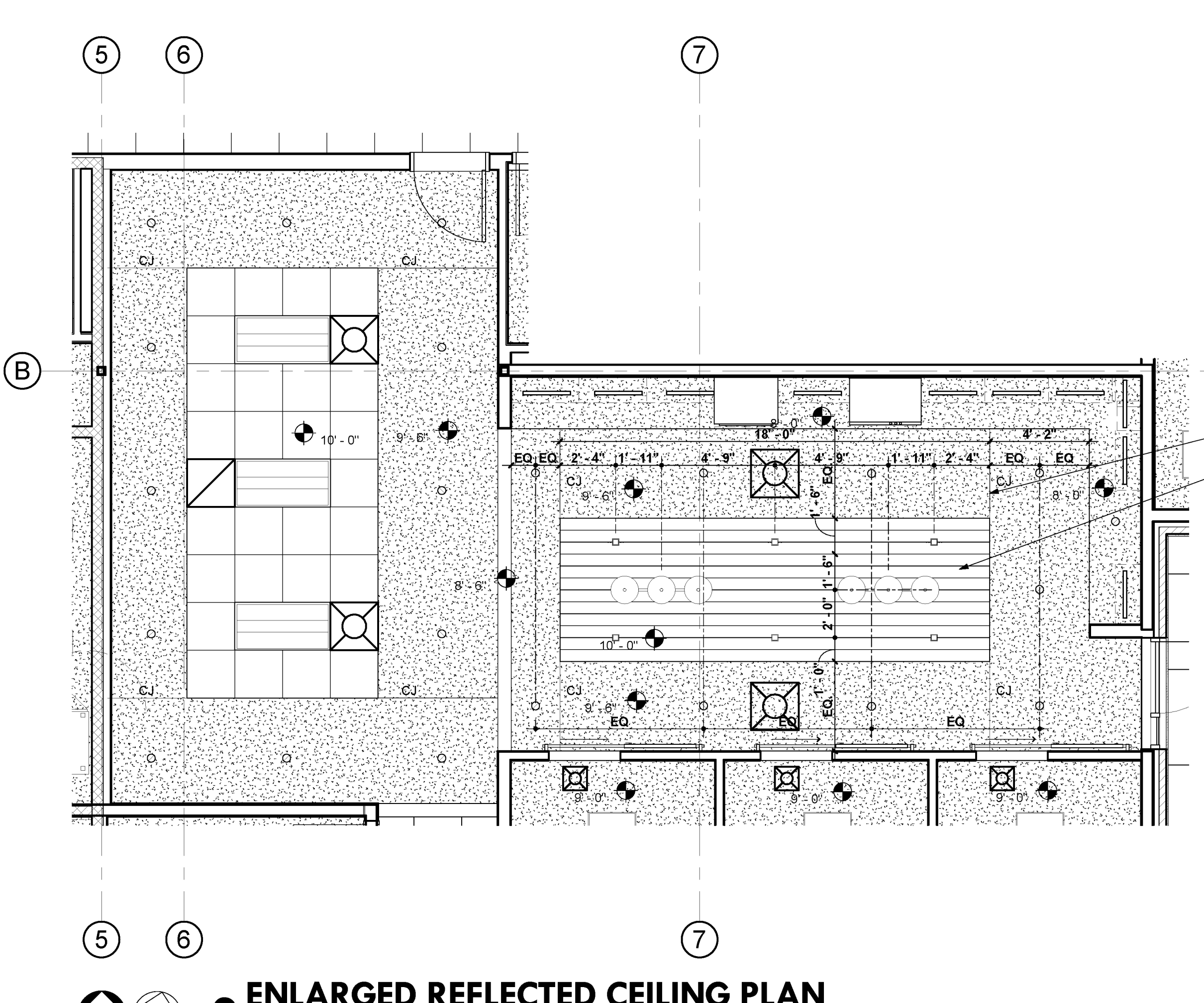
11 CEILING DETAIL
 1 1/2" = 1'-0"



4 ENLARGED RCP
 1/4" = 1'-0"



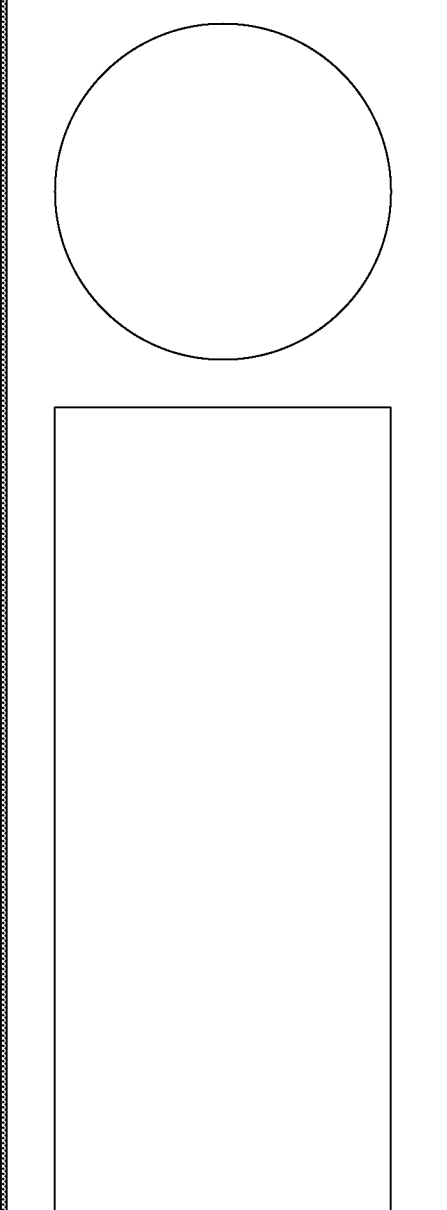
8 CEILING DETAIL
 1 1/2" = 1'-0"



3 ENLARGED REFLECTED CEILING PLAN
 1/4" = 1'-0"



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 GEORGETOWN, TX, 78633

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A4.2
 FINISH PLAN

KEYNOTES

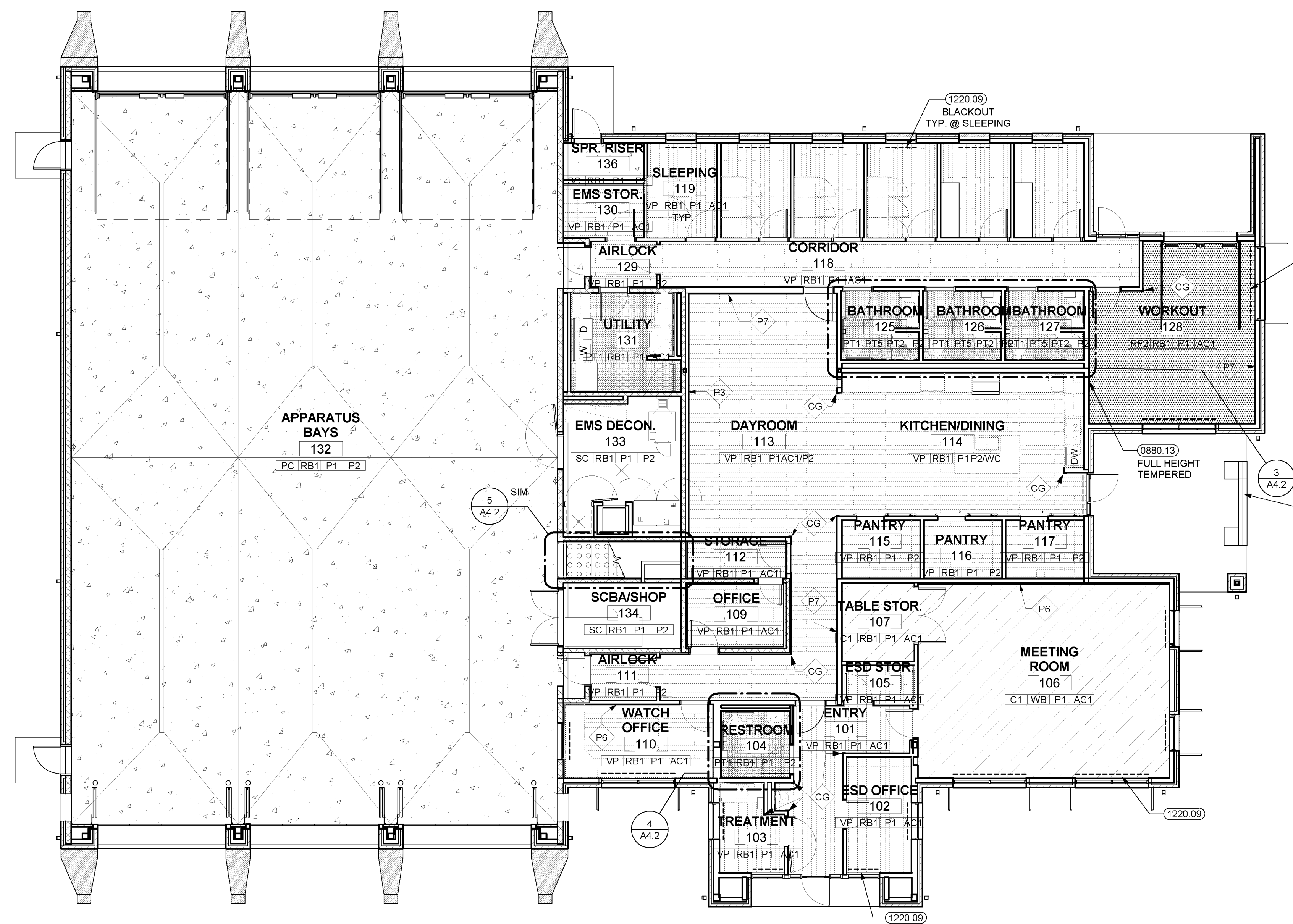
- 0420.13 6" CONCRETE MASONRY UNITS
- 0420.24 VERTICAL REINFORCING IN CONCRETE MASONRY UNITS (RE: STRUCTURAL)
- 0440.07 STONE VENEER
- 0550.02 2" X 2" X 1/4" STEEL ANGLE
- 0610.03 2X WOOD BLOCKING
- 0610.05 1/2" EXTERIOR GRADE PLYWOOD
- 0610.07 3/4" EXTERIOR GRADE PLYWOOD
- 0610.09 2 X 4 WOOD STUDS AT 16" O.C.
- 0610.16 WOOD SILL PLATE
- 0710.01 BITUMINOUS DAMPPROOFING
- 0790.01 SEALANT WITH BACKER ROD AS REQUIRED
- 0880.13 1/4" GLASS MIRROR
- 0920.26 5/8" CEMENTITIOUS BACKER BOARD
- 0920.28 5/8" GYPSUM BOARD (TYPE X)
- 0930.01 PORCELAIN TILE
- 0930.07 7/8" GRANITE THRESHOLD
- 0930.09 THICKSET TILE (SLOPE TO DRAIN)
- 0930.10 METAL TILE TRIM
- 0930.11 FLUID-APPLIED FABRIC REINFORCED WATERPROOFING MEMBRANE
- 0930.12 PREFABRICATED SHOWER NICHE
- 0960.01 FLOORING AS SCHEDULED
- 0960.03 METAL EDGE / TRANSITION TRIM
- 0960.14 RUBBER TREAD / RISER / FLOORING
- 1020.12 WALL AND CORNER GUARDS
- 1220.09 MANUAL ROLLER SOLAR SHADES

FINISH LEGEND

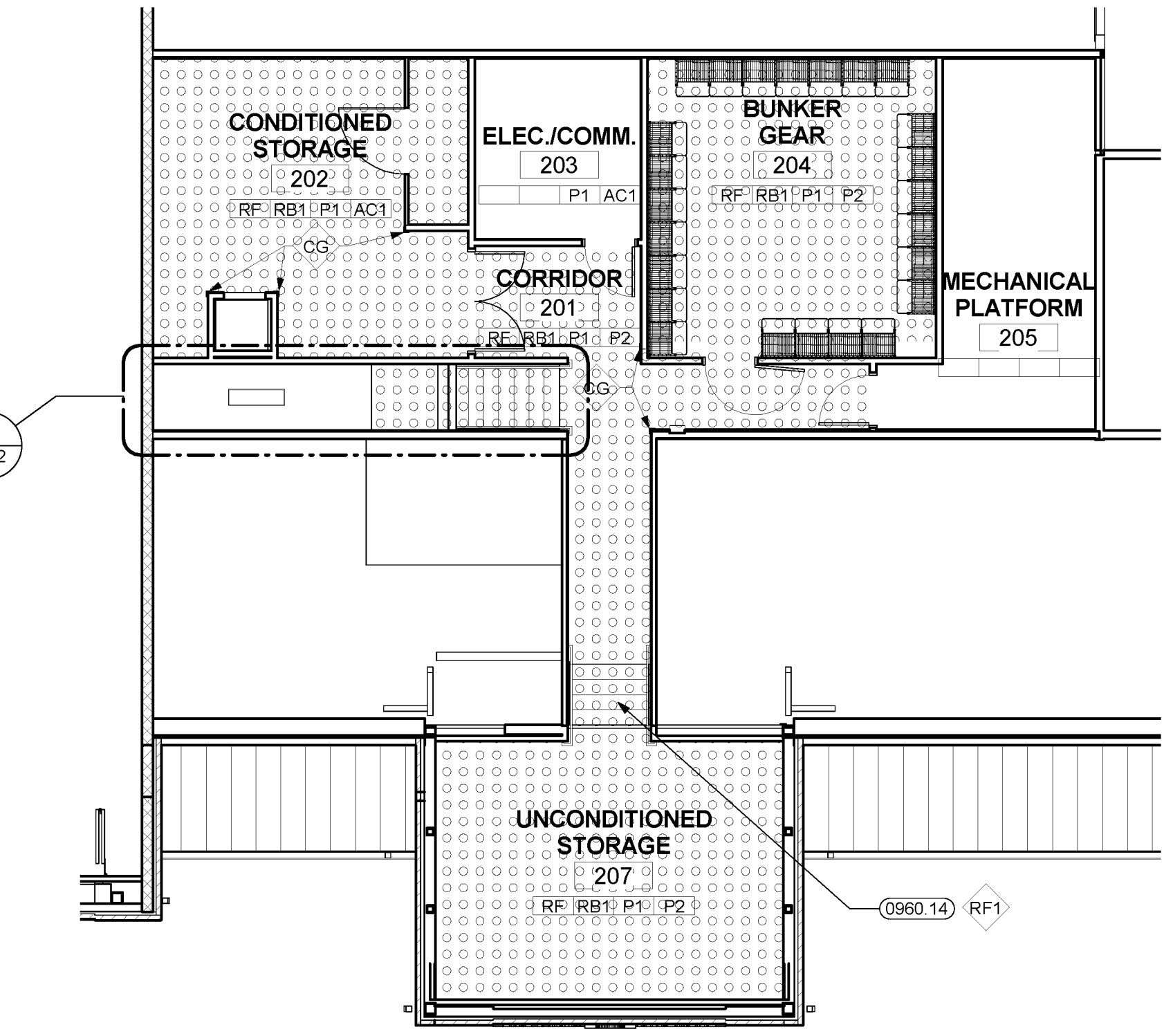
ROOM NAME	ROOM NAME DESIGNATION & NUMBER	FINISH
C101B		CEILING FINISH
		WALL FINISH
		BASE FINISH
		FLOOR FINISH

PATTERN	DESCRIPTION
AC	AC - ACOUSTICAL CEILING TILE AC1: ARMSTRONG #1774 "DUNE" 24" X 24" REGULAR TILE COLOR: WHITE
PT	PT - PORCELAIN TILE & TRIMS PT1: PORCELAIN FLOOR TILE ARIZONA TILE RESIDE: 2" X 2" COLOR: BLACK PT2: PORCELAIN WALL TILE ARIZONA TILE RESIDE FIELD TILE 12" X 24" COLOR: ASH PT3: PORCELAIN ACCENT TILE ARIZONA TILE RESIDE FIELD TILE 1" X 12" COLOR: BLACK PT4: PORCELAIN BACKSPLASH DAL TILE MODERN DIMENSIONS 2" X 8" COLOR: ARCTIC WHITE, GLOSS & MATTE PT5: COVE PROFILES SCHLUTER DILEX - AHK COLOR: SATIN ANODIZED ALUM. 10 MM (3/8") PT6: EDGE PROFILE SCHLUTER QUADEC COLOR: SATIN ANODIZED ALUM. 10 MM (3/8") PT7: PORCELAIN OUTDOOR CORNER ARIZONA TILE RESIDE FIELD TILE 24" X 48" COLOR: ASH RE: DETAIL 12 & 13/A4.2
M	M - MISC. METALS M1: PAINT EXPOSED STRUCTURAL STEEL COLUMNS SW 7000 "BLACK FOX"
PC	PC - DIAMOND POLISHED CONCRETE RE: SPECIFICATION SECTION 033536
P	P - PAINT (RE: SPECIFICATION 0990000) P1: WALL (SEMI-GLOSS) KH4189, "NEVADA PEAK" P2: CEILING (EGG-SHELL) KH5794, "EMILY ANN TAN" P3: WALL, ACCENT (SEMI-GLOSS) KH5812, "WINTER SOLISTICE" P4: INTERIOR HW DOORS & FRAMES KH4804, "BALSALMIC REDUCION" P5: MILLWORK, STAIN SW5114, "WARM CHESTNUT" P6: EXTERIOR METALS, DOORS & WINDOW FRAMES RAL 3002, "CARMINE RED" KMA3 "HAUTE COUTURE" LEVEL 4 DRYWALL FINISH AT WALL MURAL LOCATIONS P7: MILLWORK, STAIN SW5114, "WARM CHESTNUT"
PL	PL - PLASTIC LAMINATE PL1: PLASTIC LAMINATE COUNTERTOP WILSONART COLOR: EVENING TIGRIS
Q	Q - SOLID SURFACE QUARTZ Q1: QUARTZ COUNTERTOP LG SURFACES WATERA COLOR: WHITE SOLACE
RB	RB - RESILIENT BASE FLEXCO #078, "UMBER"
RF	RF - RUBBER FLOOR SHEET FLEXCO - 1/8" #078 "UMBER" RF1 - RUBBER STAIRSTRINGER FLEXCO 1/8" 48" TREAD #078 "UMBER" RF2 - RUBBER ATHLETIC FLOORING RF: RUBBER FLOOR TILE ECORE COMMERCIAL ECSURFACE ECOTIT 8.2MM, 48" X 48" TILE COLOR: #620, "RED HOTS 20"
SC	SC - SEALED CONCRETE BASF LAPIDOLITH
CG	CG - CORNER GUARDS (RE: 9/A4.2) CG: FULL HEIGHT CORNER GUARDS CSACROVYN SFS-20N(RN) 410 "BRUSHED SILVER"
TS	TS - TRANSITION STRIP TS1: METAL TRANSITION STRIP SCHLUTER, RENU-LU CLEAR ANODIZED ALUMINUM
C1	C1: CARPET TILE BATES T53, 18" X 36", MONOLITHIC
VP	VP: VINYL PLANK KARNDIAN, ART SELECT, RL03 "AUTUMN OAK"
WC	WC: WOOD CEILING ARMSTRONG "WOODWORKS LINEAR VENEER PLANK" CEILING SYSTEM STAIN TO MATCH MILLWORK (P5)
RS	RS: MANUAL ROLLER SHADES RE: SPECIFICATION SECTION 12 24 00

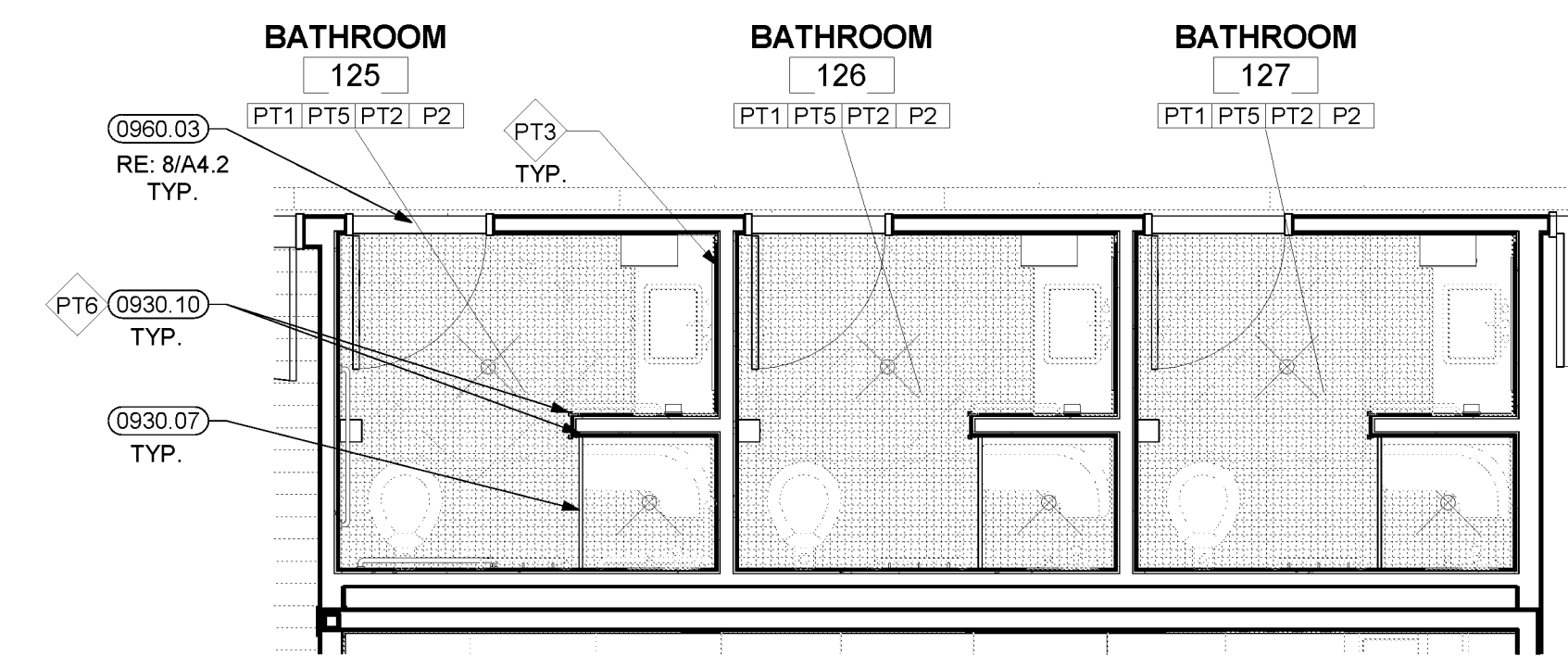
- NOTES:**
- ALL WOOD DOORS TO BE STAINED TO MATCH MILLWORK. GYPSUM BOARD CEILINGS ARE TO BE FINISH P2. U.I.O. PROVIDE FLOOR LEVELING COMPOUND UNDER FINISH FLOORING AS REQUIRED.
 - LINE OF TRANSITION FROM DIAMOND POLISHED TO SEALED CONCRETE SHALL BE A STRAIGHT SAWCUT JOINT, LOCATED SO THAT SEALED CONCRETE IS NOT VISIBLE BELOW CLOSED DOOR FROM THE DIAMOND POLISHED CONCRETE SIDE OF DOOR. TYP. PROVIDE CONTROL JOINTS AT CONCRETE SLAB AS REQUIRED AND AT LOCATIONS SHOWN ON FINISH PLAN. RE: STRUCTURAL.
 - PROVIDE EPOXY PAINT AT ALL INTERIOR PAINTED CMU AND APPARATUS BAY/ARK LOOK VESTIBULE CEILINGS.
 - 3/4" PL WOOD ON WALLS IN ELEC./COMM 203



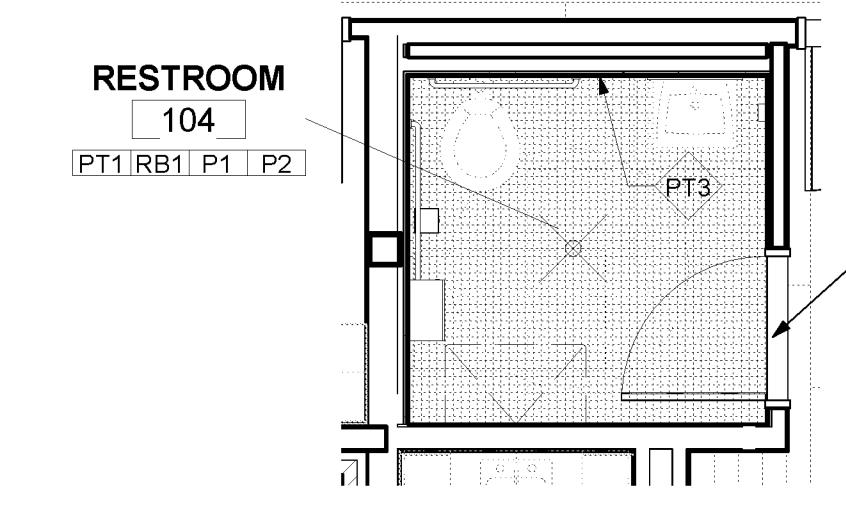
1 FIRST FLOOR FINISH PLAN
 1/8" = 1'-0"



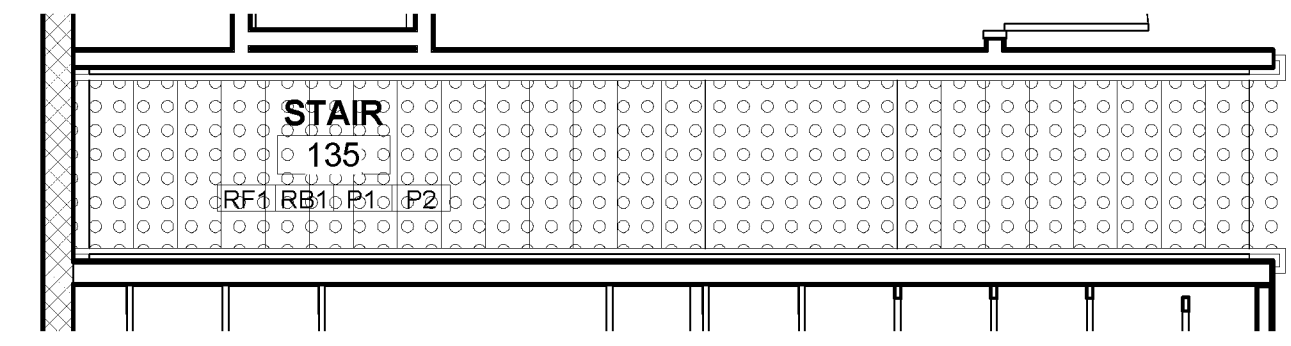
2 SECOND FLOOR FINISH PLAN
 1/8" = 1'-0"



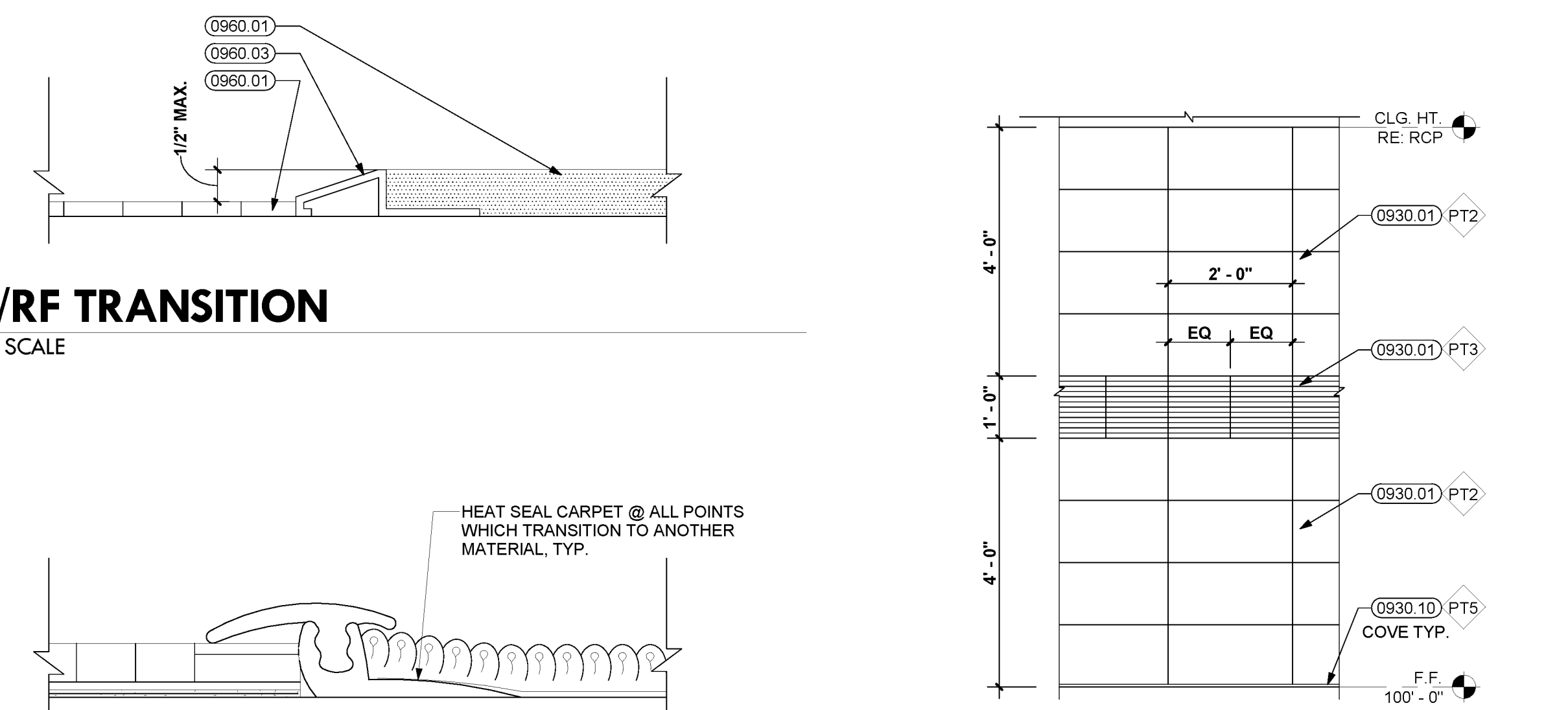
3 ENLARGED FINISH PLAN
 1/4" = 1'-0"



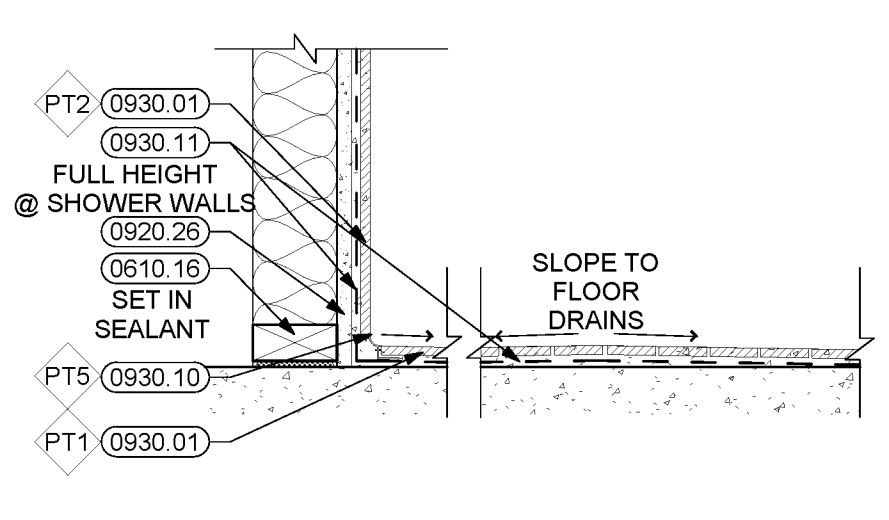
4 ENLARGED FINISH PLAN
 1/4" = 1'-0"



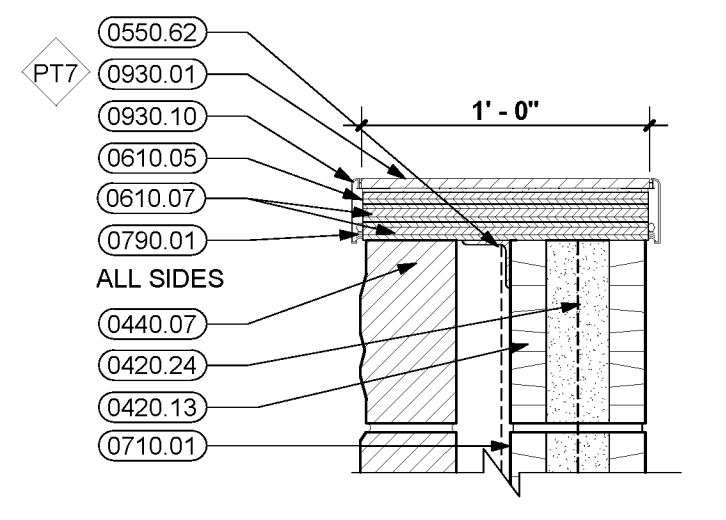
5 ENLARGED FINISH PLAN
 1/4" = 1'-0"



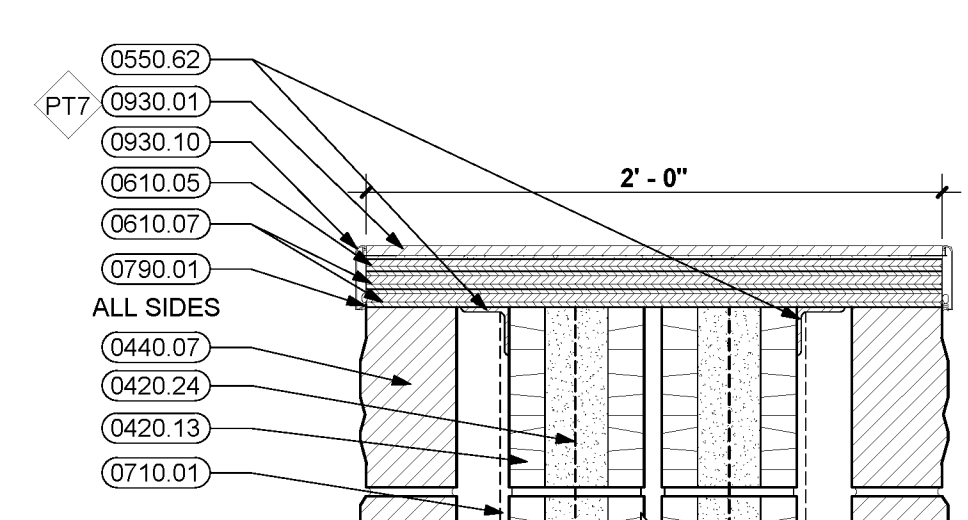
6 BATHROOM TILE ELEVATION
 1/2" = 1'-0"



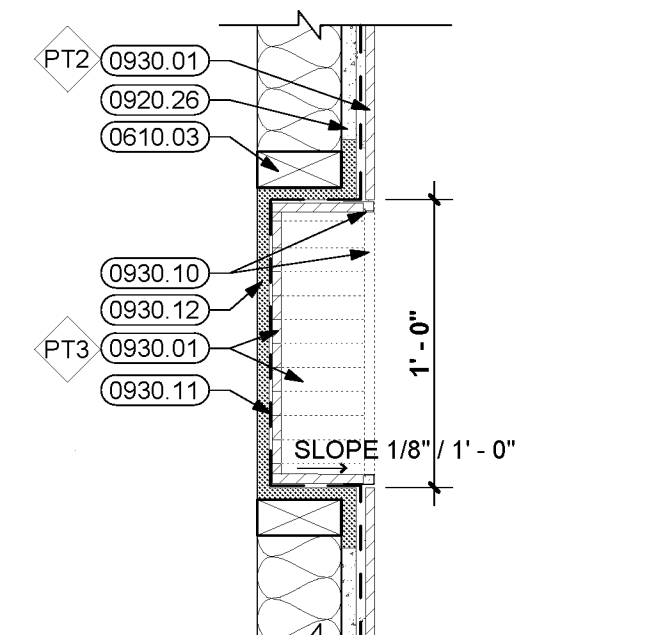
11 BATHROOM TILE DETAIL
 1 1/2" = 1'-0"



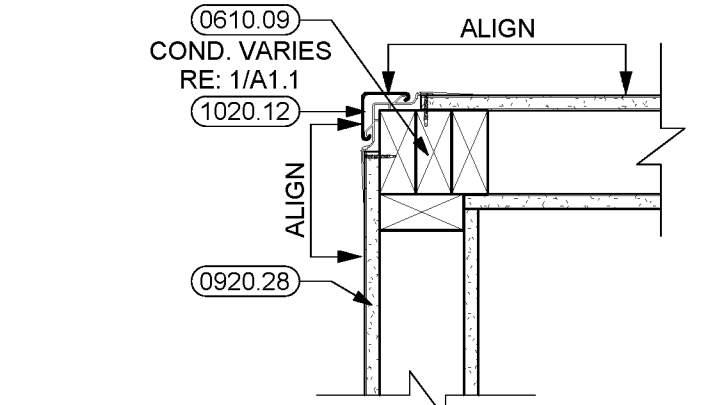
12 COUNTERTOP DETAIL
 1 1/2" = 1'-0"



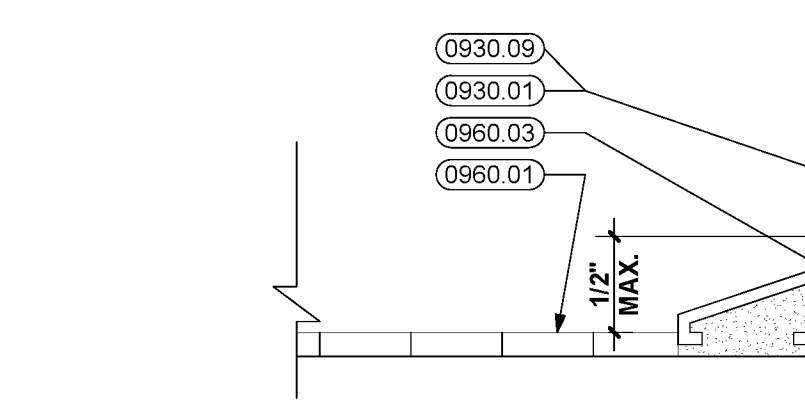
13 COUNTERTOP DETAIL END
 1 1/2" = 1'-0"



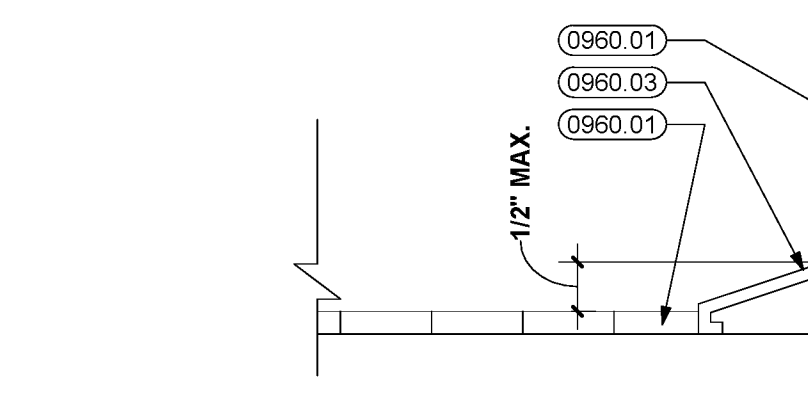
14 SHOWER NICHE
 1 1/2" = 1'-0"



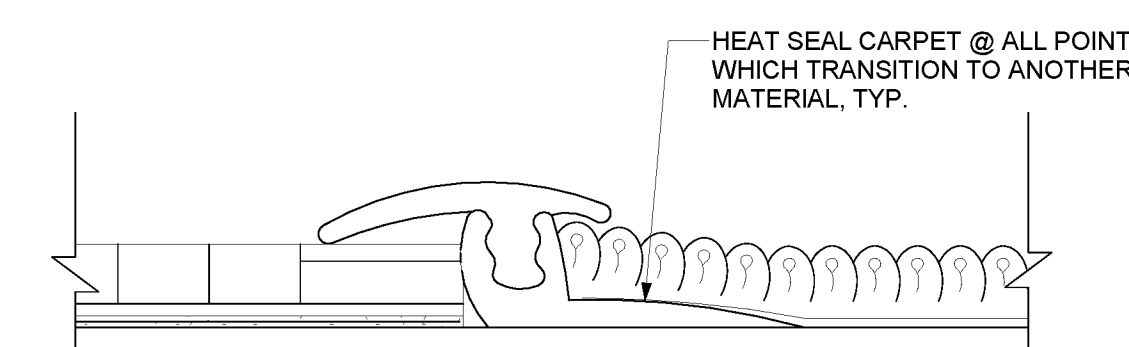
9 CORNER GUARD
 1 1/2" = 1'-0"



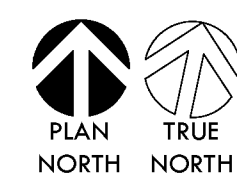
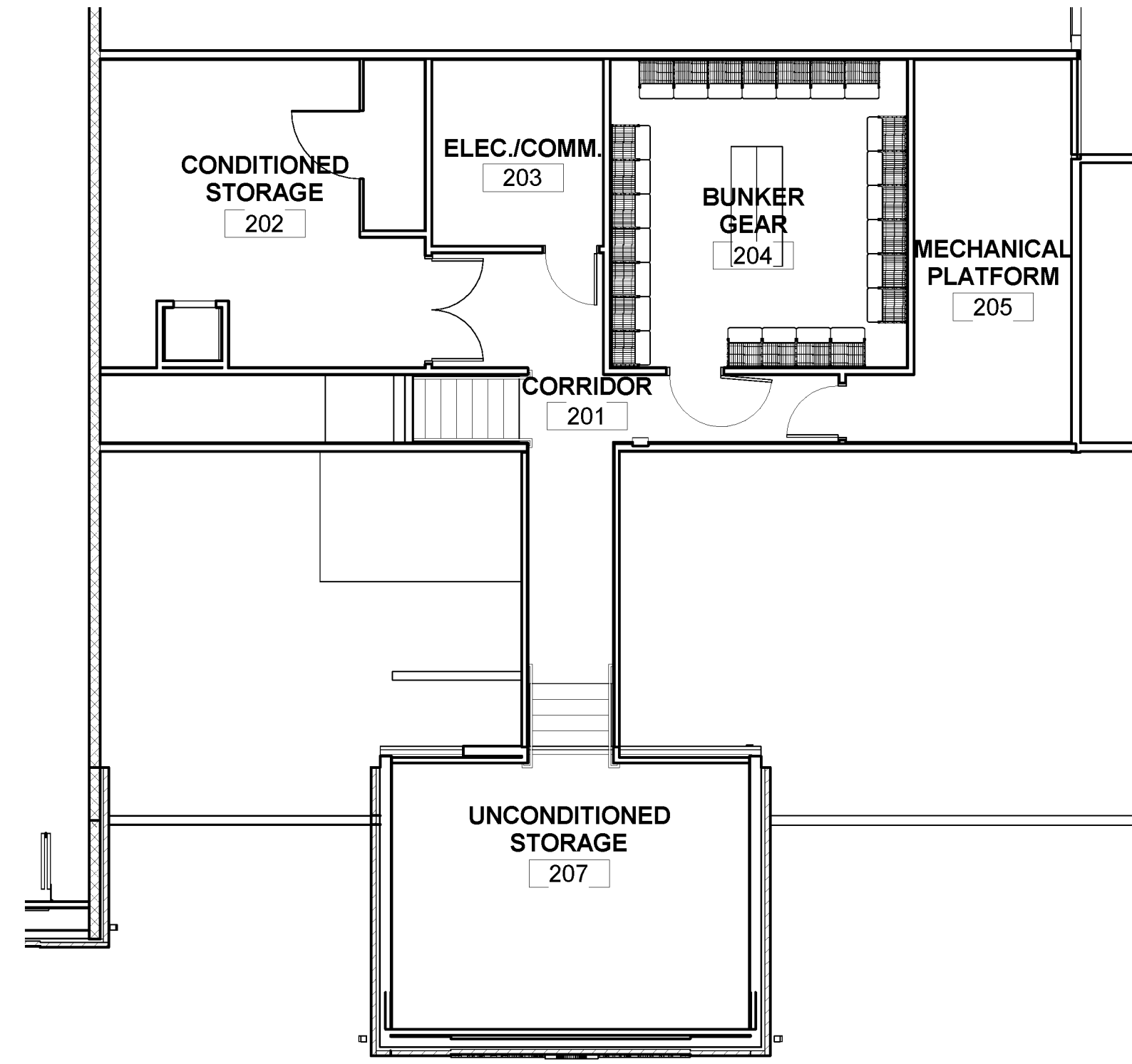
8 LVT/TILE TRANSITION
 NOT TO SCALE



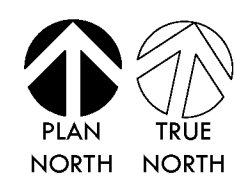
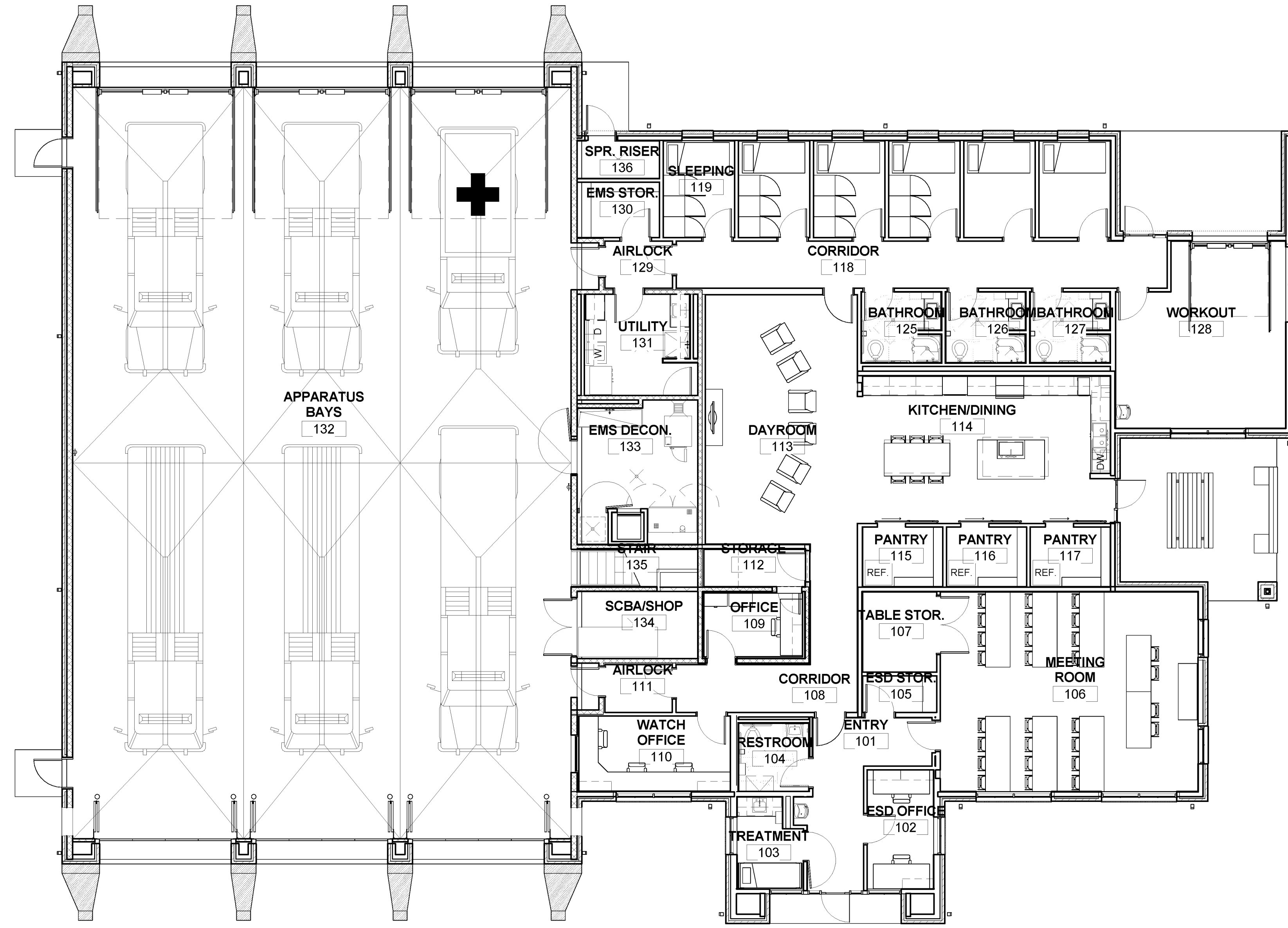
7 LVT/RF TRANSITION
 NOT TO SCALE



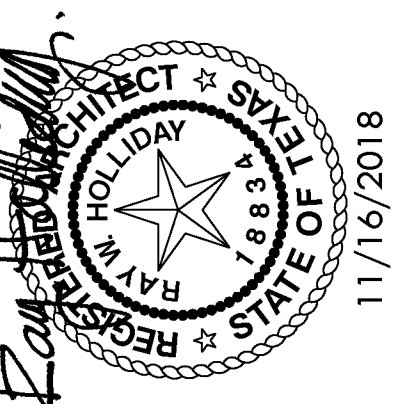
10 LVT/CARPET TRANSITION
 NOT TO SCALE



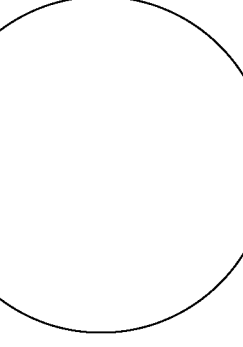
2 SECOND FLOOR FURNITURE / EQUIPMENT PLAN
1/8" = 1'-0"



1 FIRST FLOOR FURNITURE / EQUIPMENT PLAN (NOT IN CONTRACT)
1/8" = 1'-0"



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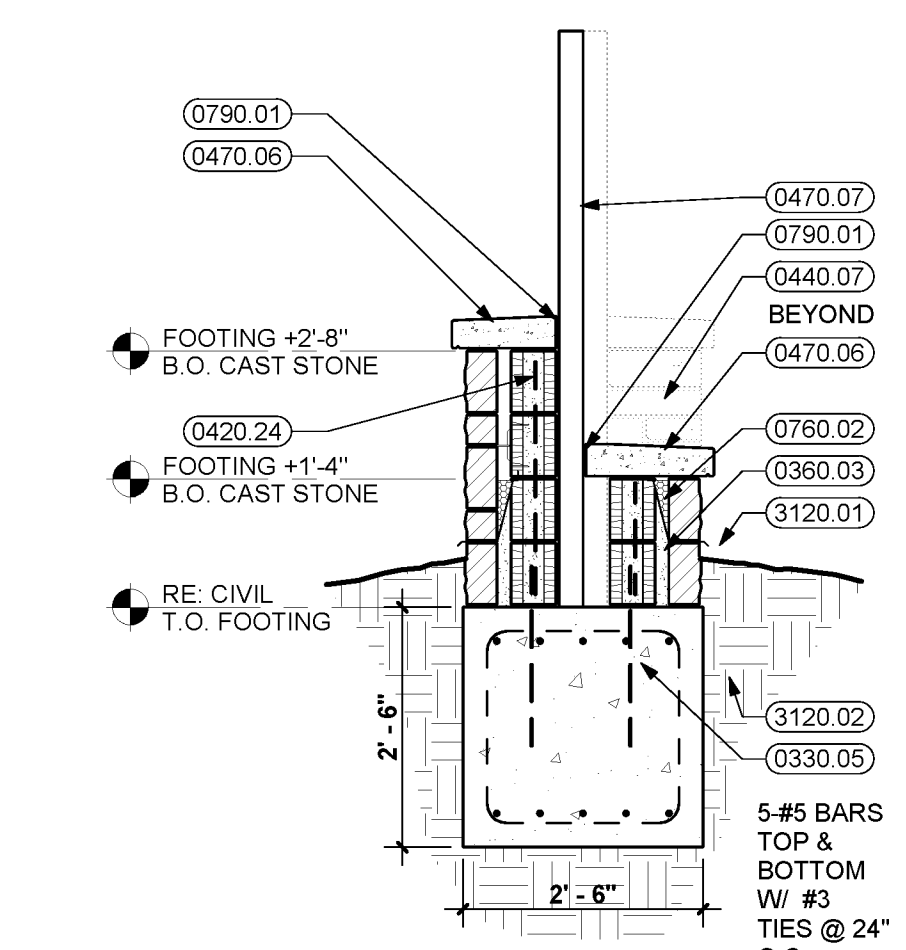
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NO.	REVISION	DATE

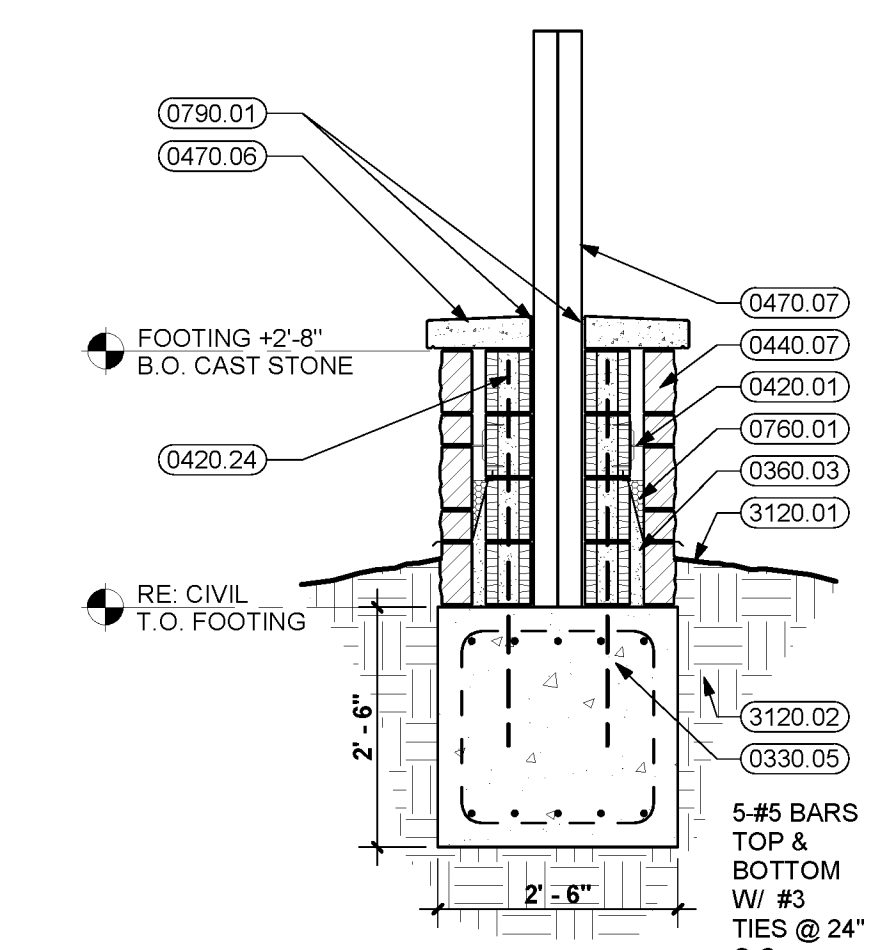
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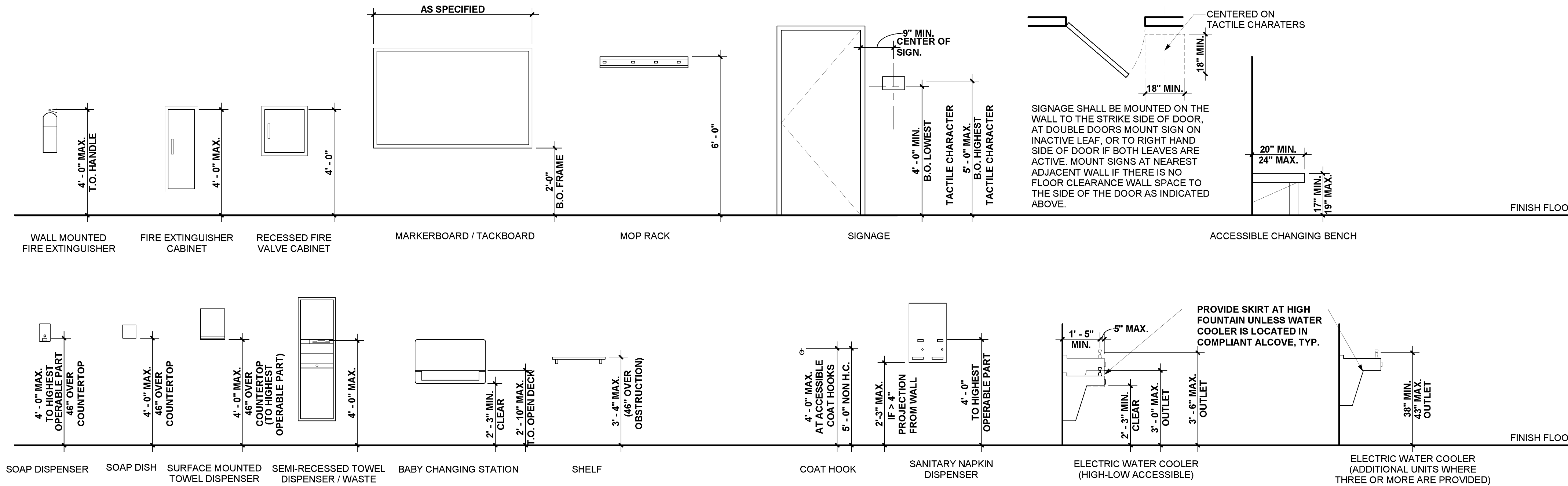
2 SIGNAGE DETAIL
1/2" = 1'-0"



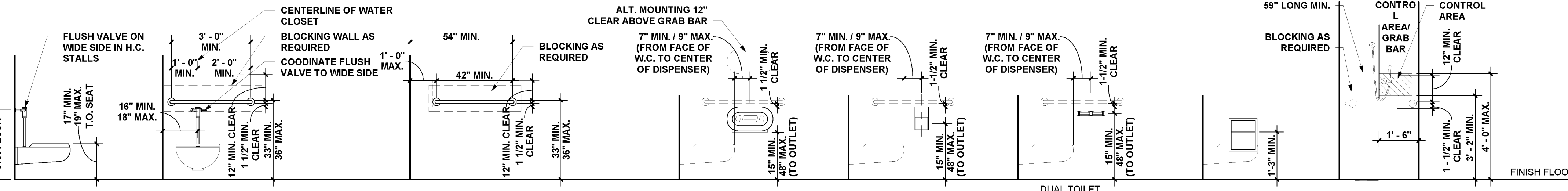
4 MONUMENT SIGN SEC.
1/2" = 1'-0"



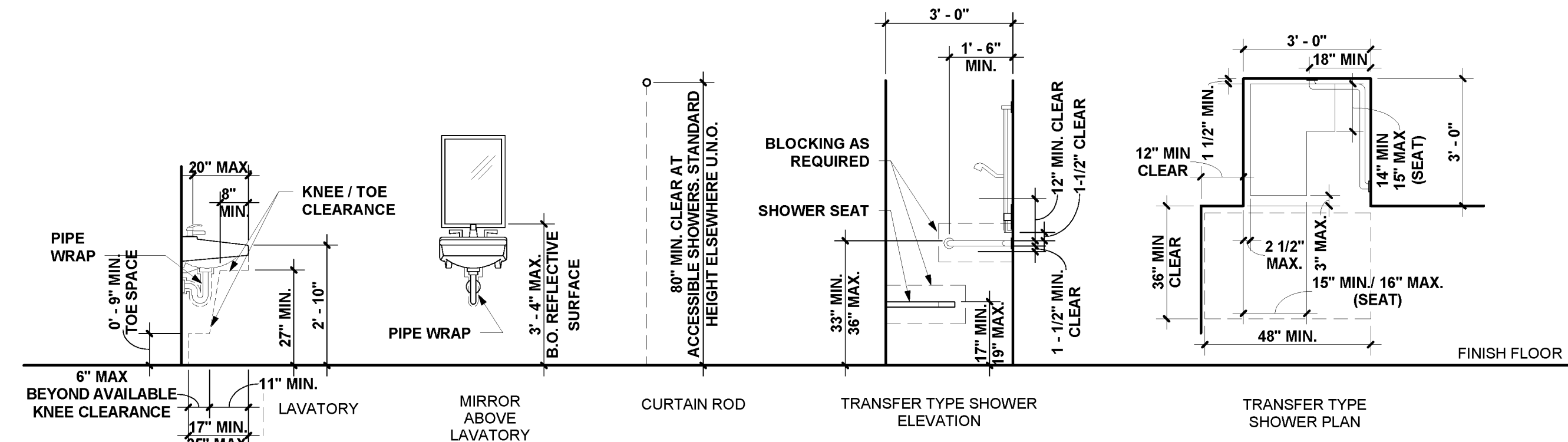
3 MONUMENT SIGN SEC.
1/2" = 1'-0"



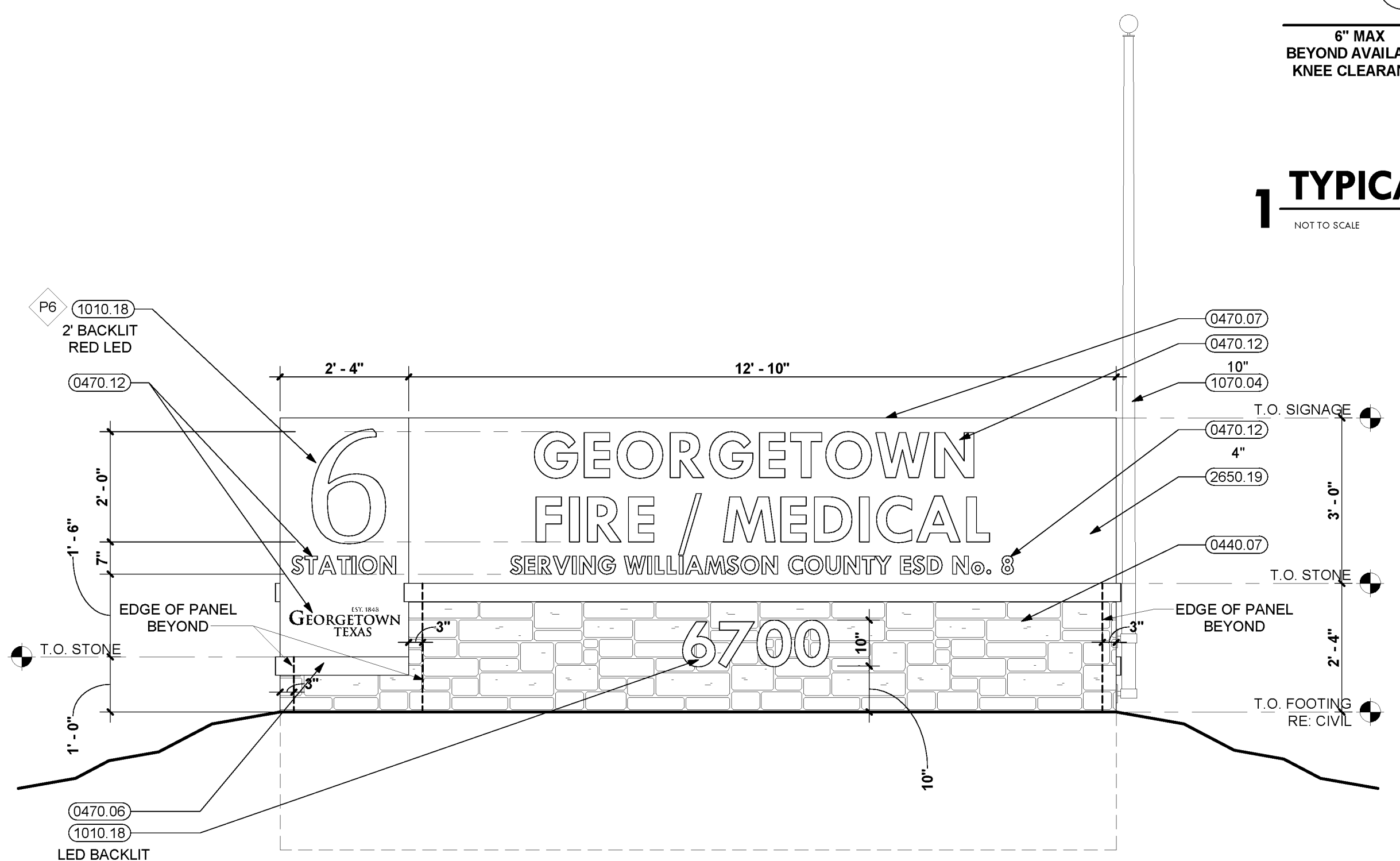
11 INTERIOR SIGNAGE
3" = 1'-0"



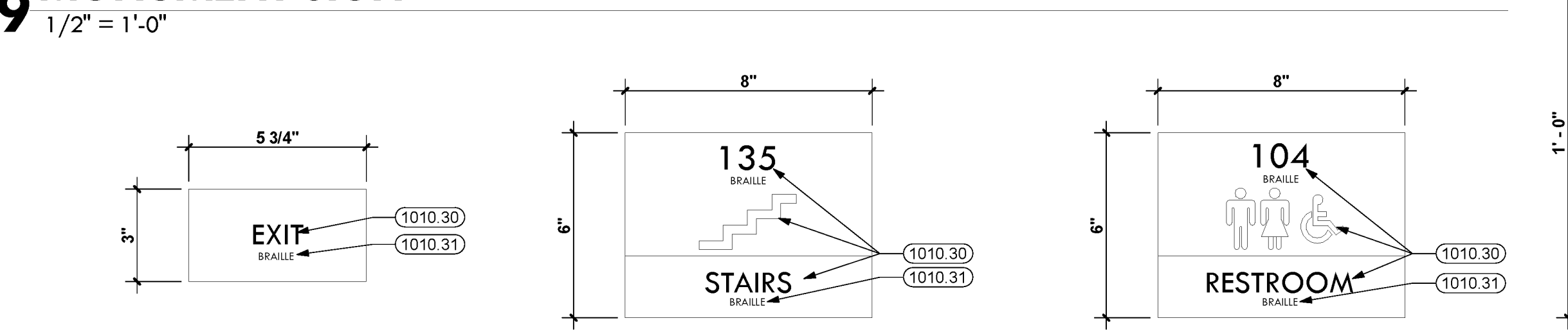
1 TYPICAL MOUNTING HEIGHTS
NOT TO SCALE



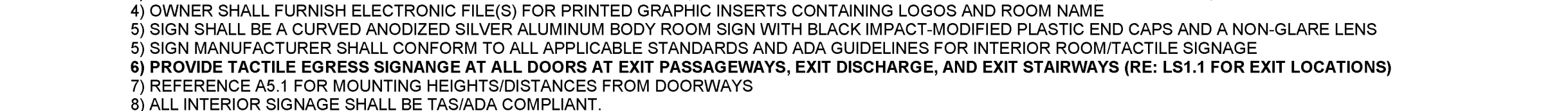
8 BAY SIGNAGE SECTION
1 1/2" = 1'-0"



9 MONUMENT SIGN
1/2" = 1'-0"



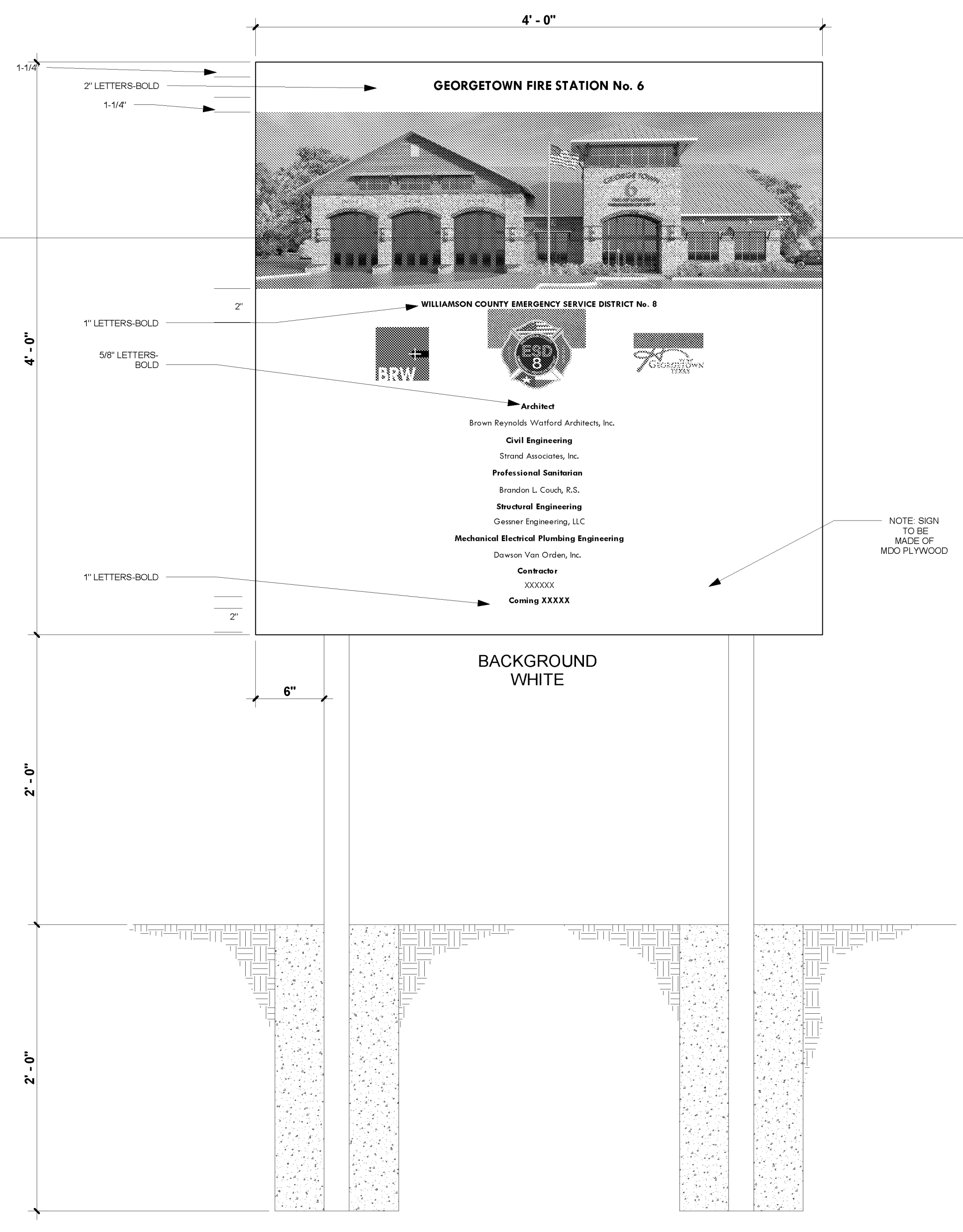
10 SIGNAGE DETAIL
1/2" = 1'-0"



5 CONSTRUCTION SIGN
1 1/2" = 1'-0"

11 INTERIOR SIGNAGE
3" = 1'-0"

NOTES:
 1) CENTER ALL TEXT/SYMBOLS/LOGOS WITHIN SIGNAGE
 2) TEXT/SYMBOLS SHALL BE RAISED A MINIMUM OF 1/16"
 3) EVERY ROOM SHALL RECEIVE A ROOM SIGN WITH ROOM NUMBER, AND A PICTOGRAM WITH ROOM NAME AT STAIRS, RESTROOMS, AND SHOWER ROOMS
 4) OWNER SHALL FURNISH ELECTRONIC FILE(S) FOR PRINTED GRAPHIC INSERTS CONTAINING LOGOS AND ROOM NAME
 5) SIGN SHALL BE A CURVED ANODIZED SILVER ALUMINUM BODY ROOM SIGN WITH BLACK IMPACT-MODIFIED PLASTIC END CAPS AND A NON-GLARE LENS
 6) SIGN MANUFACTURER SHALL CONFORM TO ALL APPLICABLE STANDARDS AND ADA GUIDELINES FOR INTERIOR ROOM/TACTILE SIGNAGE
 7) PROVIDE TACTILE EGRESS SIGNAGE AT ALL DOORS AT EXIT PASSAGEWAYS, EXIT DISCHARGE, AND EXIT STAIRWAYS (RE: L51.1 FOR EXIT LOCATIONS)
 8) REFERENCE AS 1 FOR MOUNTING HEIGHTS/DISTANCES FROM DOORWAYS
 9) ALL INTERIOR SIGNAGE SHALL BE T&S/ADA COMPLIANT.

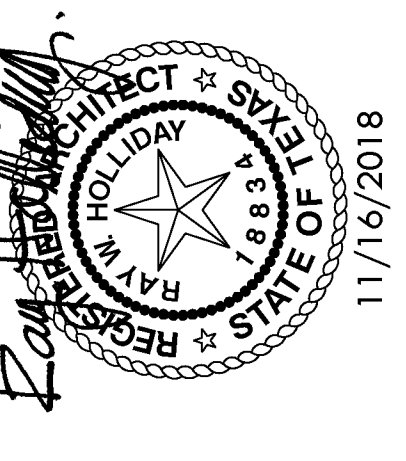


6 GATE SIGN
1 1/2" = 1'-0"

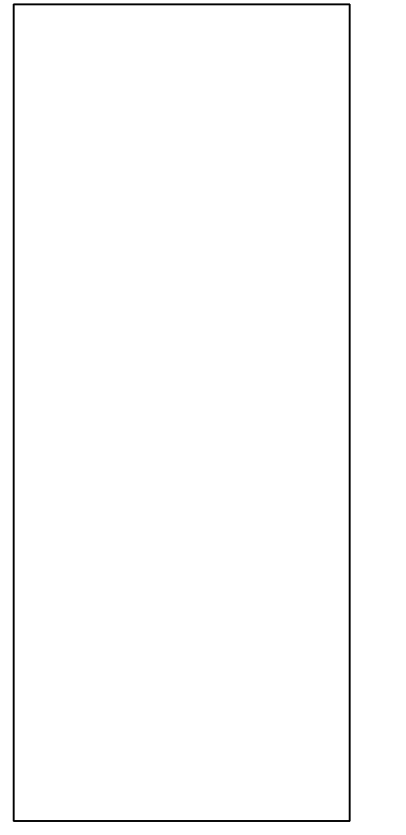
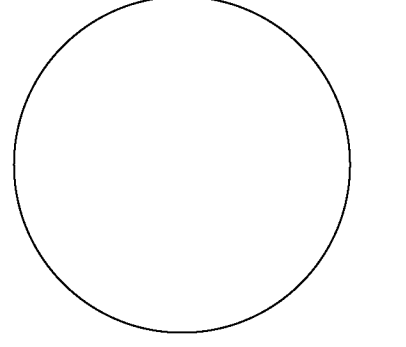
KEYNOTES

- 0330.05 CONCRETE GRADE BEAM (RE: STRUCTURAL)
- 0360.03 FILL WITH GROUT
- 0420.01 ADJUSTABLE MASONRY WALL TIES AT 16" O.C.E.W.
- 0420.24 VERTICAL REINFORCING IN CONCRETE MASONRY UNITS (RE: STRUCTURAL)
- 0440.07 STONE VENEER
- 0440.08 ADJUSTABLE MASONRY WALL TIES AT 16" O.C.E.W.
- 0470.06 CAST STONE CAP - PIN BOLT CONNECTIONS
- 0470.07 CAST STONE SIGNAGE PANEL
- 0470.12 RECESSED CAST LETTERING
- 0550 Metal Fabrications
- 0550.62 2" X 2" X 1/4" STEEL ANGLE
- 0610.05 1/2" EXTERIOR GRADE PLYWOOD
- 0610.11 2 X 6 WOOD FRAMING
- 0720.18 5 1/2" BATT INSULATION
- 0725.03 PLASTIC FILM AIR BARRIER
- 0760.01 THROUGH-WALL FLASHING (WITH WEEPS AT 2'-0" O.C.) AND MORTAR NET
- 0760.02 THROUGH-WALL FLASHING (WITH WEEPS AT 2'-0" O.C.)
- 0790.01 SEALANT WITH BACKER ROD AS REQUIRED
- 0840.02 ALUMINUM STOREFRONT DOOR
- 0880.20 1" TINTED GLASS - INSULATED, LOW-E, TEMPERED
- 1010.18 METAL LETTERING
- 1010.19 WINDOW LETTERING
- 1010.30 RAISED LETTERS AND SYMBOLS
- 1010.31 RAISED BRAILLE LETTERING
- 1070.04 WALL-MOUNTED FLAGPOLE
- 2650.19 EXTERIOR LIGHT FIXTURE
- 3120.01 GRADE
- 3120.02 COMPACT SELECT FILL
- 3230.36 THROUGH-BOLT

NOTE:
 1) EXTERIOR SIGNAGE: PROVIDE INTERIOR TACTILE ROOM SIGNAGE AT ALL DOORS ALONG PASSAGEWAYS, EXIT STAIRWAYS, AND EXIT DISCHARGE LEADING TO ACCESSIBLE MEANS OF EGRESS. REFER TO SIGNAGE ON DRAWING A5.0



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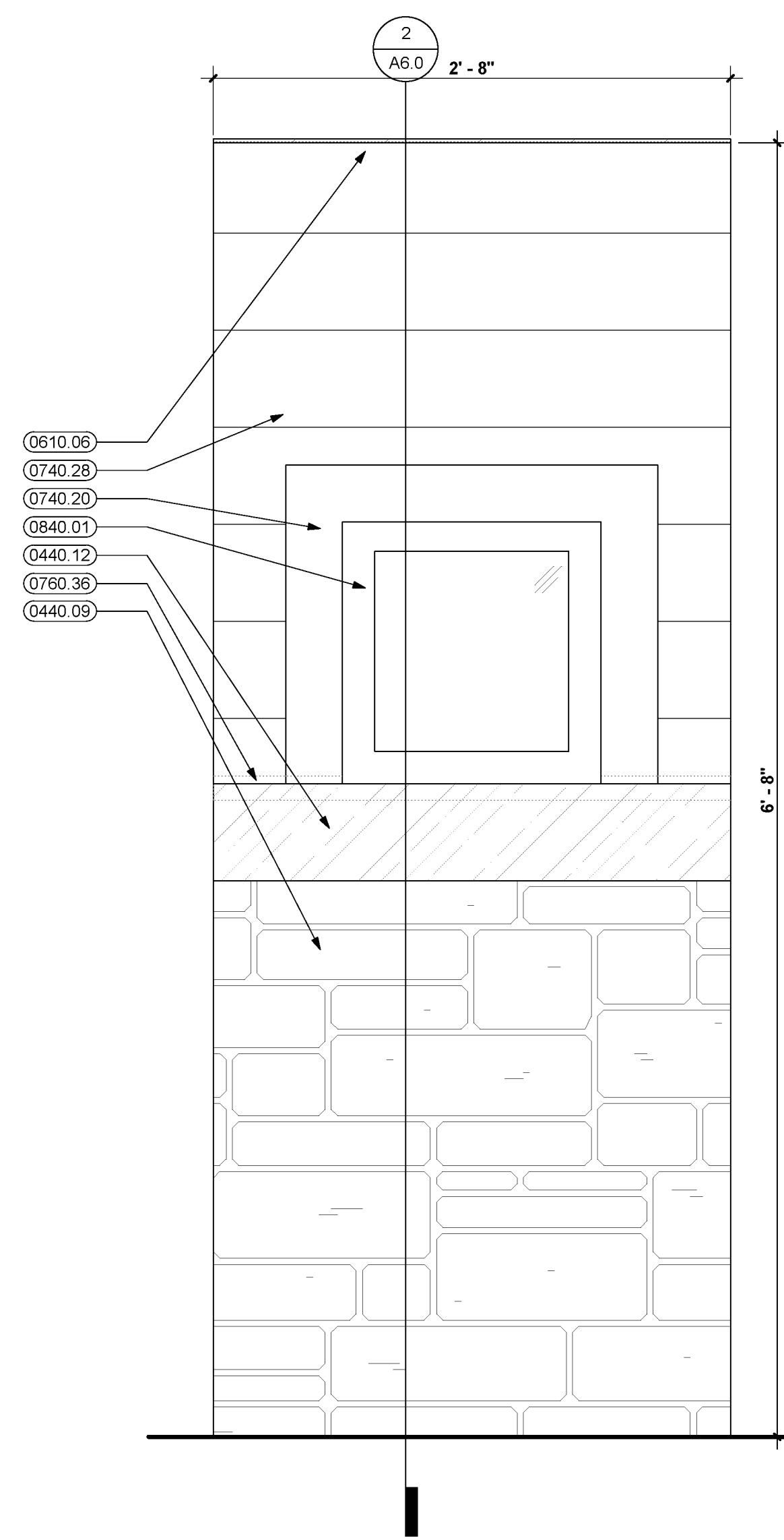
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 DATE 11/16/2018
 DRAWN BY NB
 CHECKED BY RH
 BRW PROJECT NUMBER 217079.00

CITY OF GEORGETOWN
 FIRE STATION No. 6
 6700 R.M. 2338
 GEORGETOWN, TX, 78633

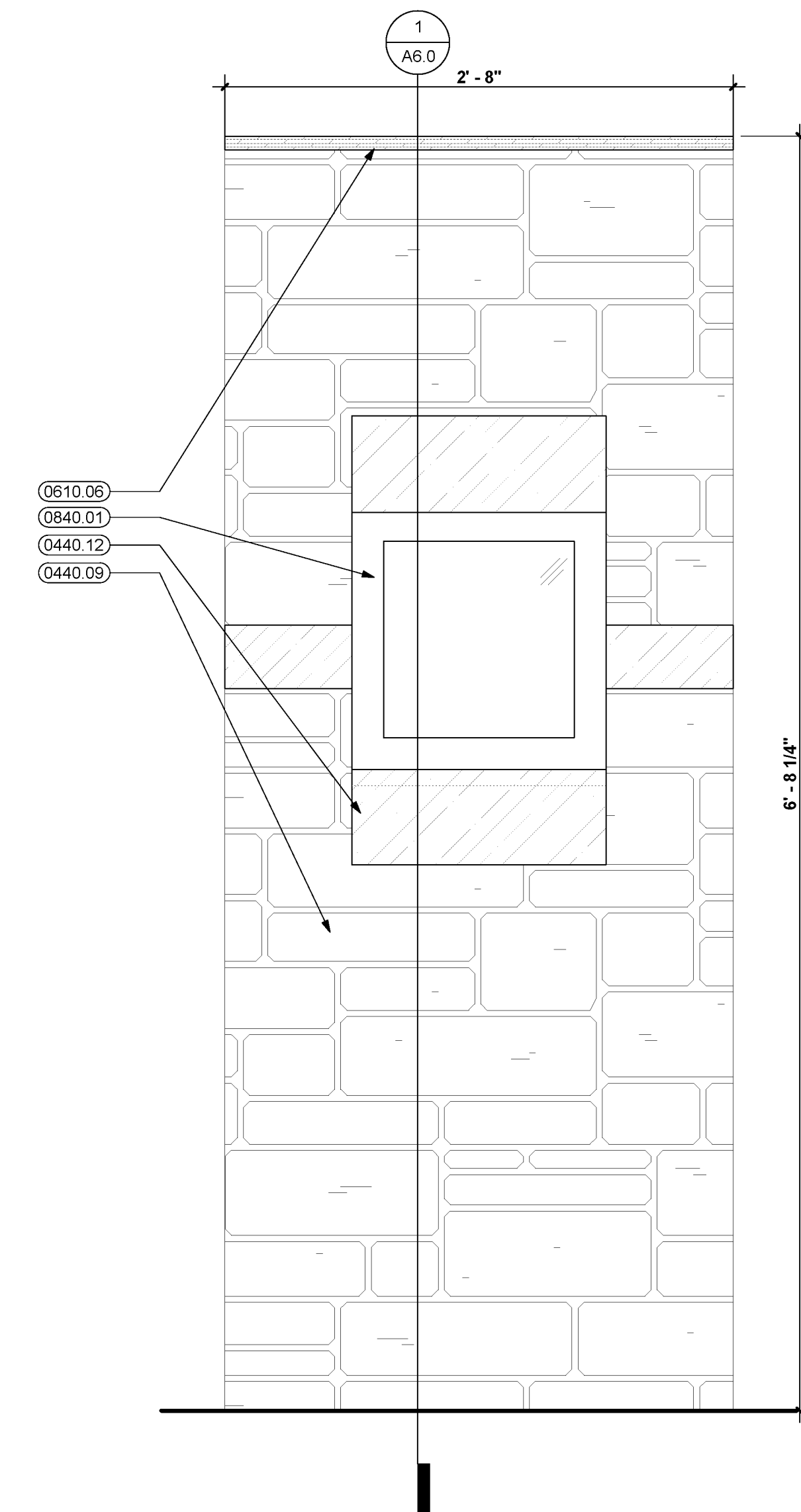
NO.	REVISION	DATE

A5.0

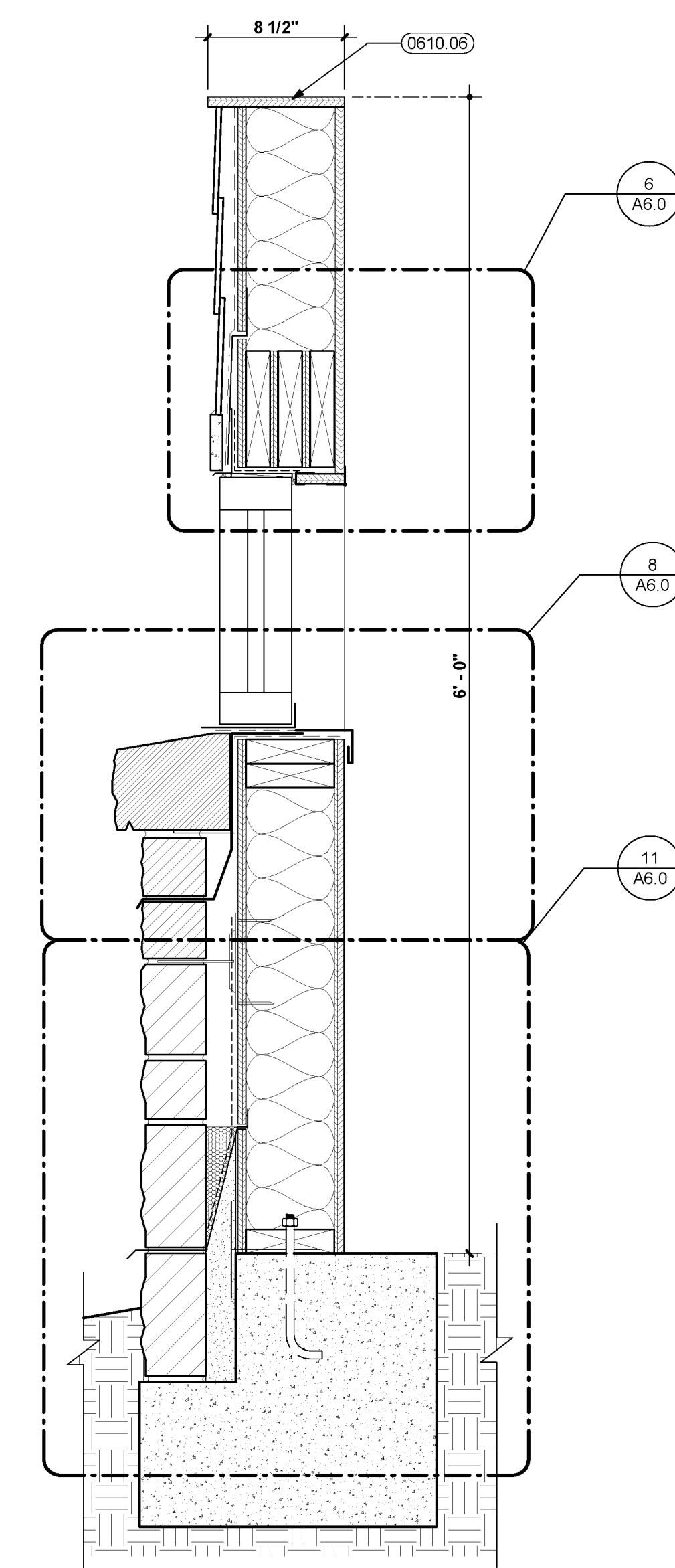
TYPICAL ACCESSIBILITY DETAILS & SIGNAGE



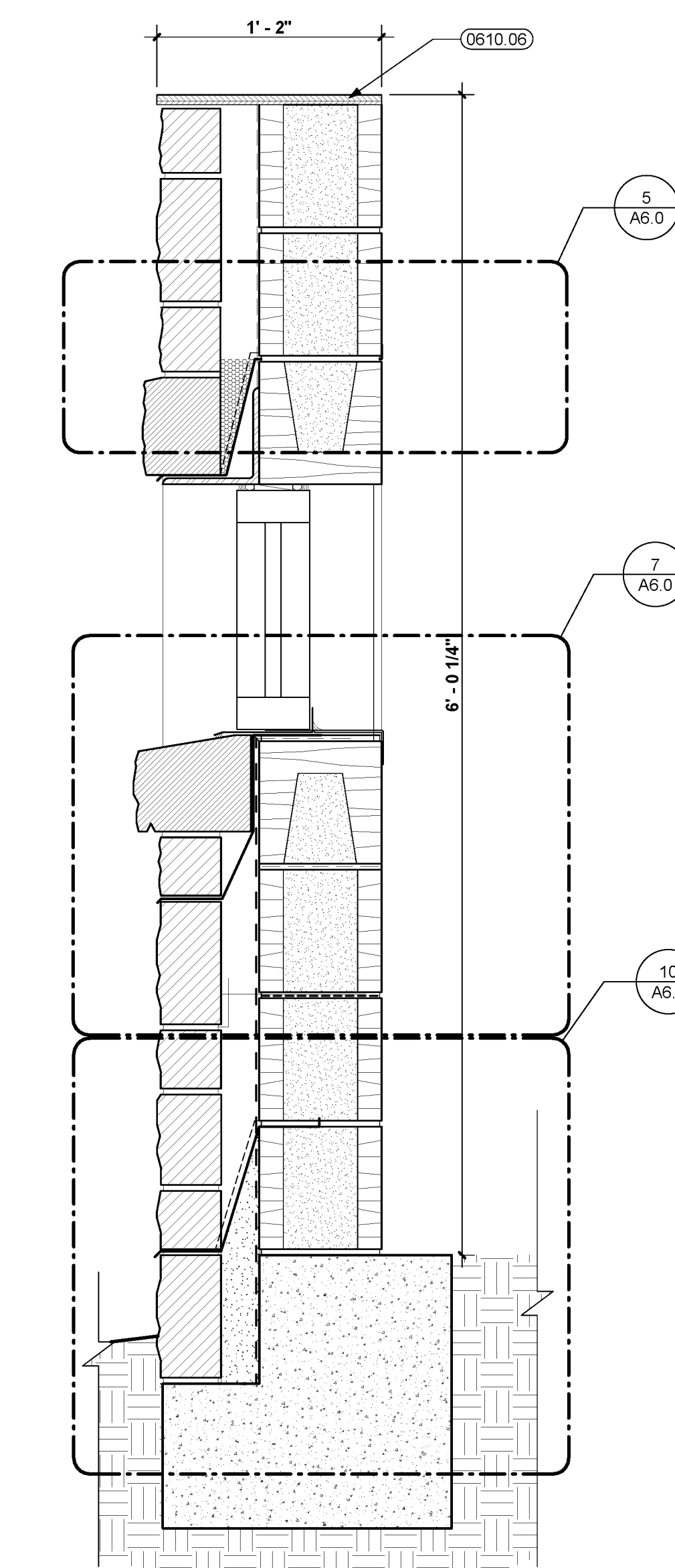
4 CMU MOCK UP WALL
1 1/2" = 1'-0"



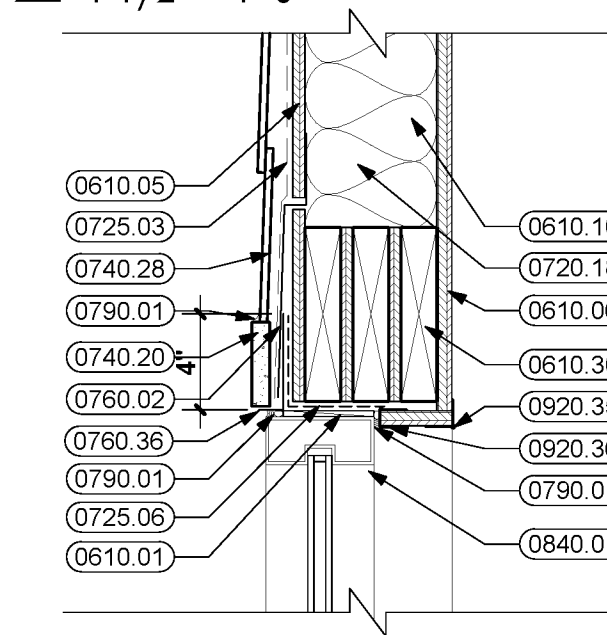
3 CMU MOCK UP WALL
1 1/2" = 1'-0"



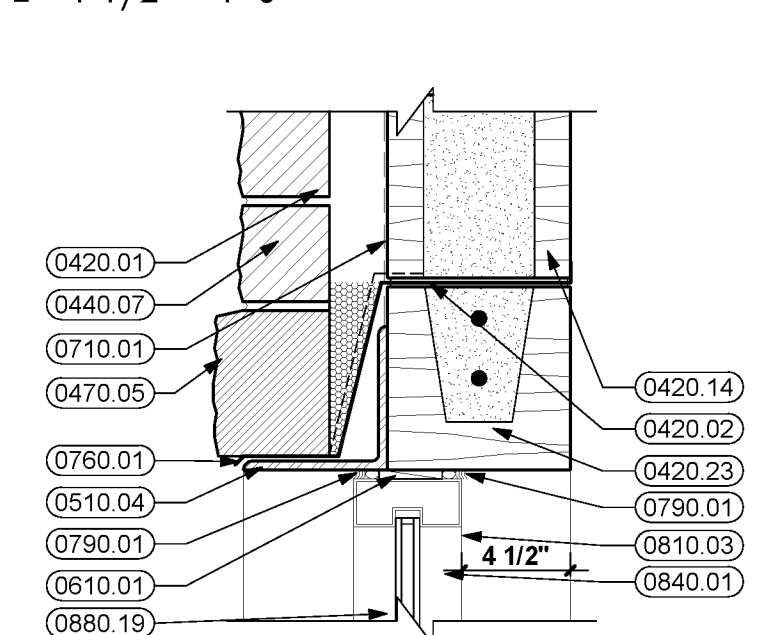
2 SECTION DETAIL
1 1/2" = 1'-0"



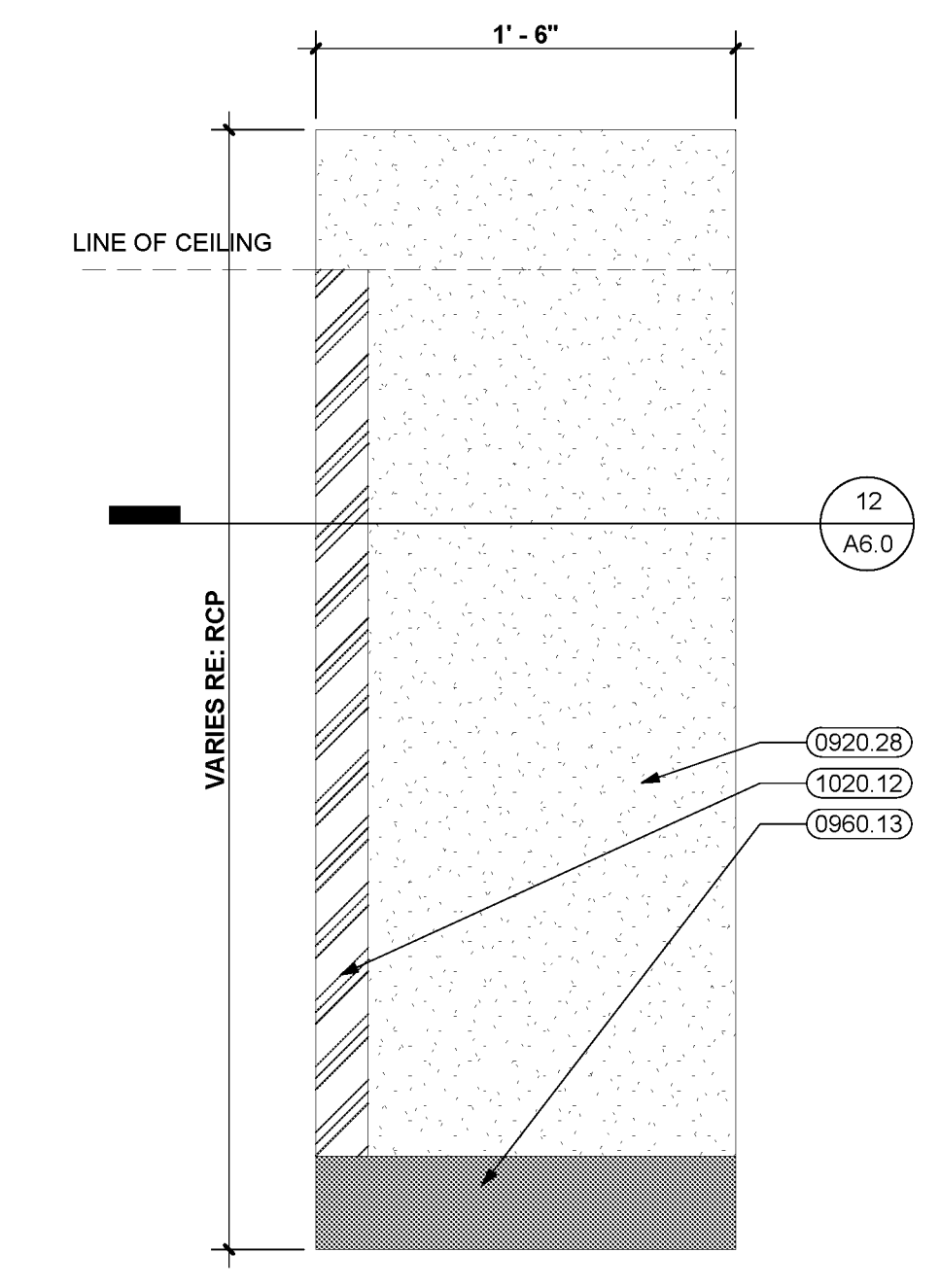
1 CMU MOCK UP WALL
1 1/2" = 1'-0"



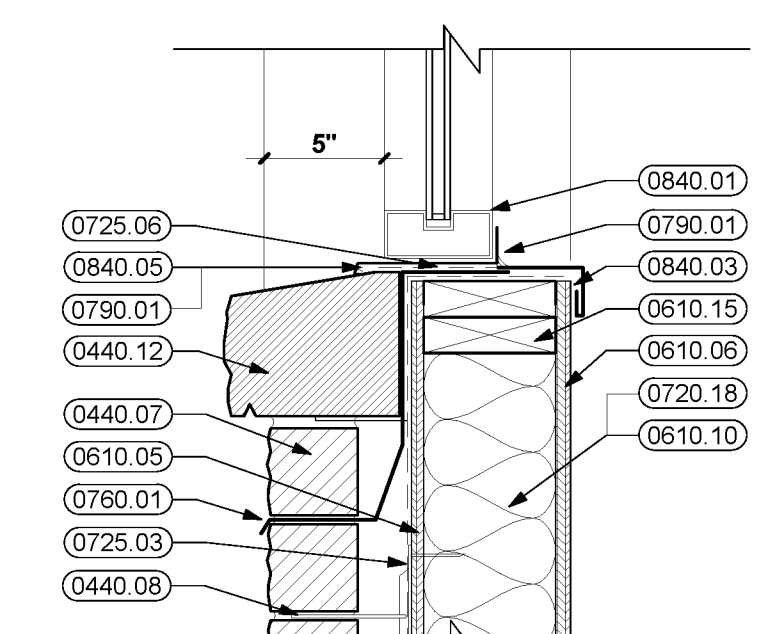
6 WINDOW HEAD
1 1/2" = 1'-0"



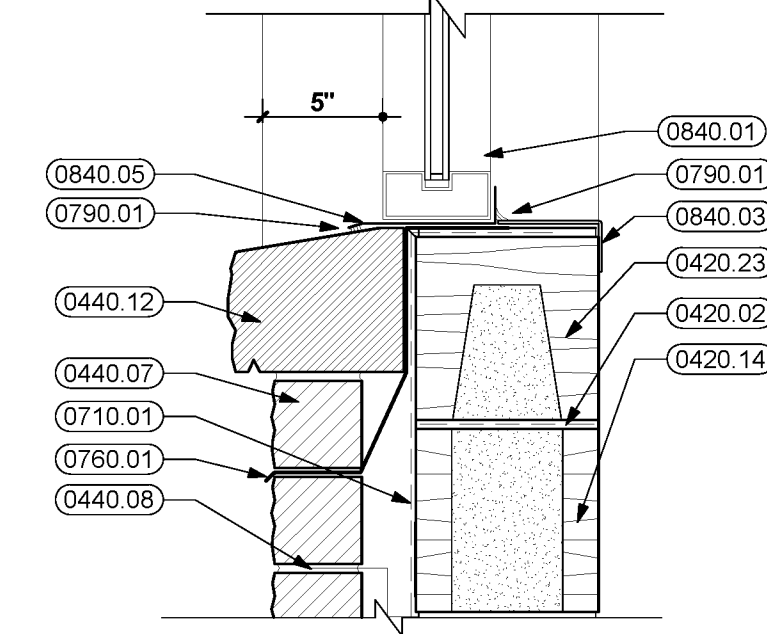
5 WINDOW HEAD
1 1/2" = 1'-0"



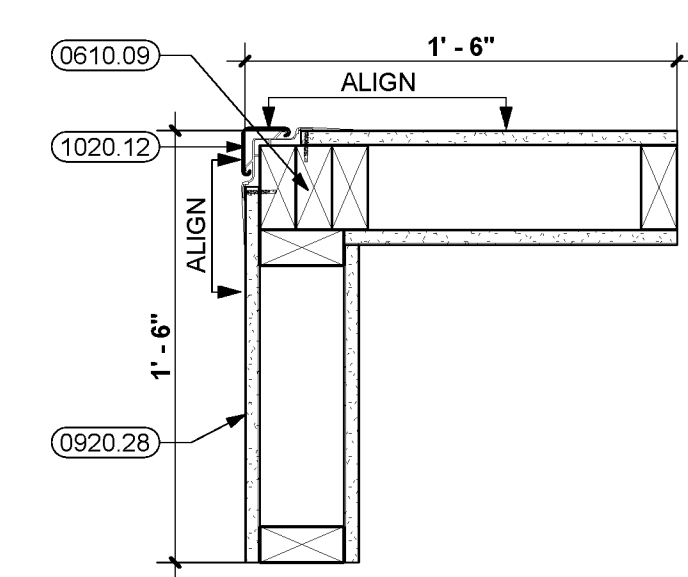
9 CORNER GUARD MOCK-UP ELEV.



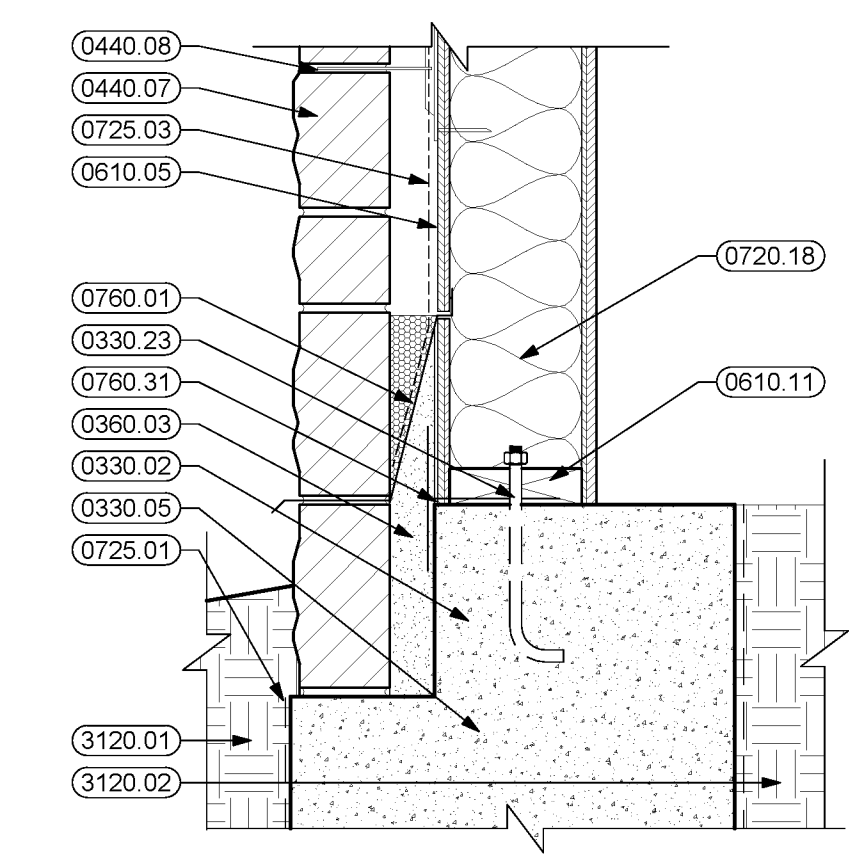
8 WINDOW SILL
1 1/2" = 1'-0"



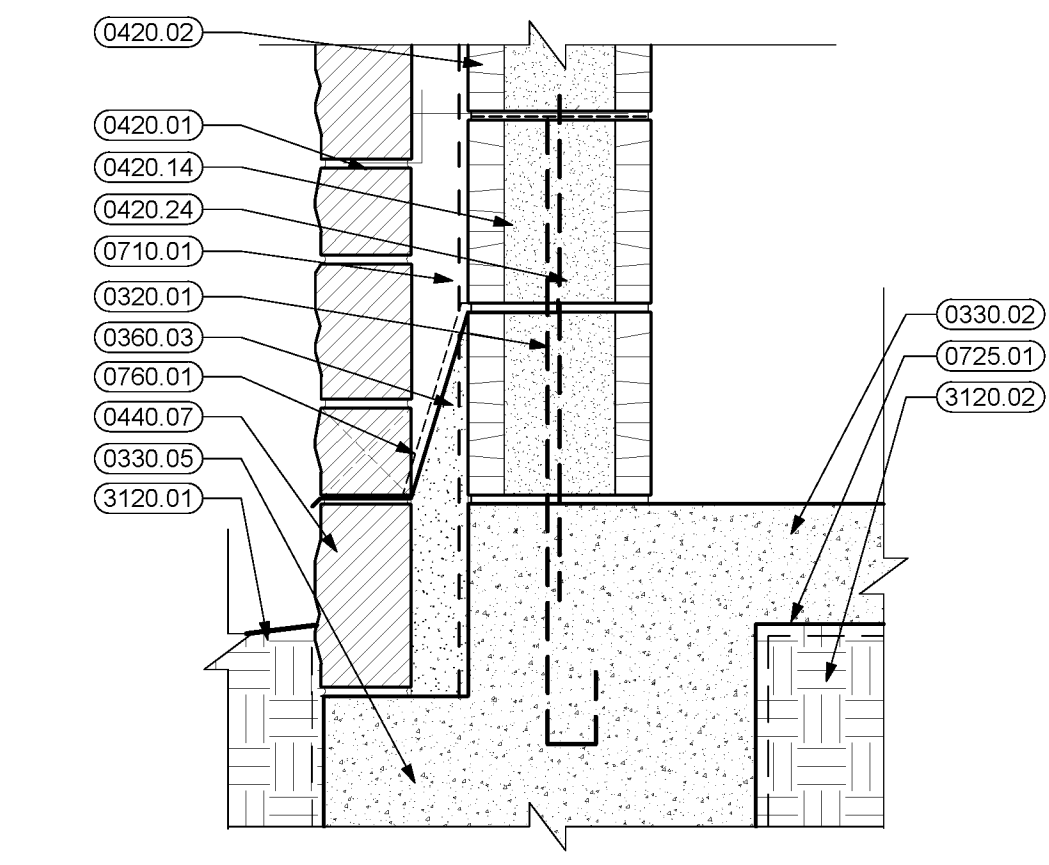
7 WINDOW SILL
1 1/2" = 1'-0"



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



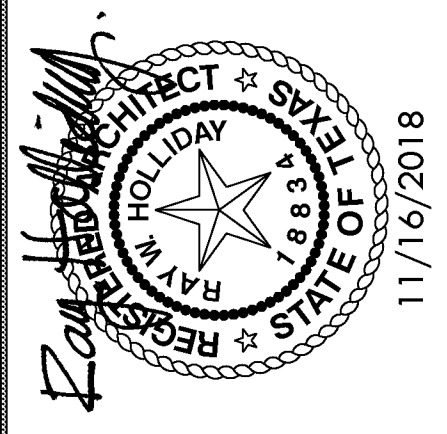
11 SECTION DETAIL
1 1/2" = 1'-0"



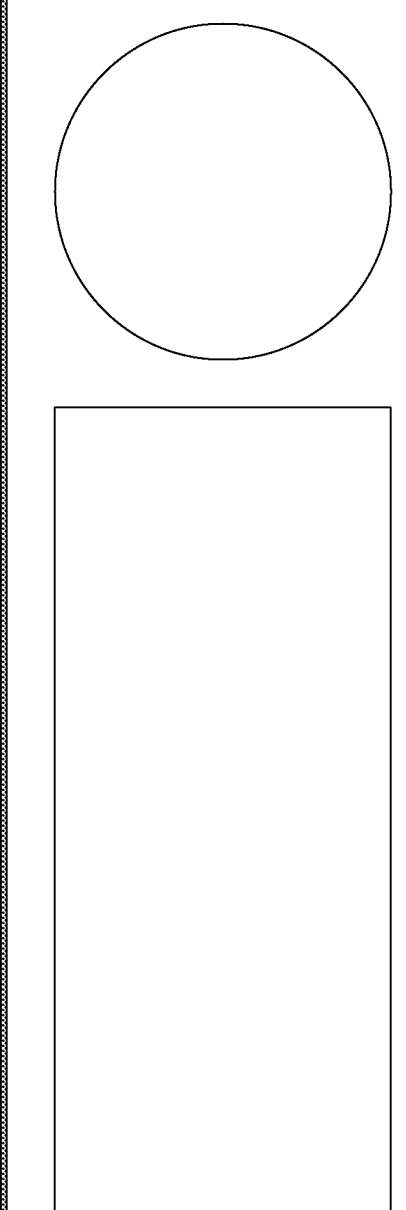
10 SECTION DETAIL
1 1/2" = 1'-0"

KEYNOTES

- 0320.01 DOWEL INTO CONCRETE SLAB
- 0330.02 CONCRETE SLAB (RE. STRUCTURAL)
- 0330.05 CONCRETE GRADE BEAM (RE. STRUCTURAL)
- 0330.23 ANCHOR BOLT
- 0360.03 FILL WITH GROUT
- 0420.01 ADJUSTABLE MASONRY WALL TIES AT 16" O.C. E-W
- 0420.02 HORIZONTAL REINFORCING AT 16" O.C. VERTICALLY
- 0420.14 8" CONCRETE MASONRY UNITS
- 0420.23 CONCRETE MASONRY BOND BEAM
- 0420.24 VERTICAL REINFORCING IN CONCRETE MASONRY UNITS (RE. STRUCTURAL)
- 0440.07 STONE VENEER
- 0440.08 ADJUSTABLE MASONRY WALL TIES AT 16" O.C. E-W
- 0440.09 THIN STONE VENEER
- 0440.12 6" CUT STONE
- 0470.05 CAST STONE SILL WITH DRIP
- 0510.04 STEEL ANGLE (RE. STRUCTURAL)
- 0510.01 SHIM AS REQUIRED
- 0610.05 1/2" EXTERIOR GRADE PLYWOOD
- 0610.06 5/8" EXTERIOR GRADE PLYWOOD
- 0610.09 2 X 4 WOOD STUDS AT 16" O.C.
- 0610.10 2 X 6 WOOD STUDS AT 16" O.C.
- 0610.11 2 X 6 WOOD FRAMING
- 0610.15 WOOD TOP PLATE
- 0610.30 2X WOOD HEADER (RE. STRUCTURAL)
- 0710.01 BITUMINOUS DAMPROOFING
- 0720.18 5 1/2" BATT INSULATION
- 0725.01 UNDERSLAB VAPOR BARRIER
- 0725.03 PLASTIC FILM AIR BARRIER
- 0725.06 SELF-ADHERING FLEXIBLE SURROUND FLASHING
- 0740.20 FIBER REINFORCED CEMENTITIOUS TRIM
- 0740.28 FIBER REINFORCED CEMENTITIOUS SIDING
- 0760.01 THROUGH-WALL FLASHING (WITH WEEPS AT 2'-0" O.C.) AND MORTAR NET
- 0760.02 THROUGH-WALL FLASHING (WITH WEEPS AT 2'-0" O.C.)
- 0760.31 SILL SEALER
- 0760.36 GALVANIZED METAL FLASHING
- 0790.01 SEALANT WITH BACKER ROD AS REQUIRED
- 0810.03 HOLLOW METAL STOP
- 0840.01 ALUMINUM STOREFRONT
- 0840.03 .060 ALUMINUM SILL WITH HEMMED AND CLOSED ENDS
- 0840.05 CONTINUOUS ALUMINUM SILL FLASHING
- 0880.19 1" TINTED GLASS, INSULATED, LOW-E
- 0920.28 5/8" GYPSUM BOARD (TYPE X)
- 0920.35 CORNER BEAD, TYPICAL
- 0920.36 J-MOULD, TYPICAL
- 0960.13 4" RESILIENT BASE
- 1020.12 WALL AND CORNER GUARDS
- 3120.01 GRADE
- 3120.02 COMPACTED SELECT FILL



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DATE 11/16/2018
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CHECKED BY
BRW PROJECT NUMBER 217079.00

CITY OF GEORGETOWN
FIRE STATION No. 6
6700 R.M. 2338
GEORGETOWN, TX, 78633

NO.	REVISION	DATE

A6.0

MECHANICAL SYMBOLS AND ABBREVIATIONS

NOTE: NOT ALL SYMBOLS AND ABBREVIATIONS INDICATED HERE ARE USED IN THE DRAWINGS AND MAY NOT APPLY TO THIS PROJECT. ADDITIONAL SYMBOLS MAY BE INDICATED IN THE DRAWINGS.

MECHANICAL ABBREVIATIONS

<p>AD ACCESS DOOR ADJ ADJUSTABLE AFF ABOVE FINISHED FLOOR AL ALUMINUM ALT ALTERNATE AP ACCESS PANEL APD AIR PRESSURE DROP APPROX APPROXIMATE ARCH ARCHITECTURAL AVG AVERAGE</p> <p>BAS BUILDING AUTOMATION SYSTEM BOB BOTTOM OF BEAM BOD BOTTOM OF DUCT BOP BOTTOM OF PIPE BTU BRITISH THERMAL UNITS BTUH BRITISH THERMAL UNITS PER HOUR</p> <p>CAV CONSTANT AIR VOLUME CFH CUBIC FEET PER HOUR CFM CUBIC FEET PER MINUTE CL CENTERLINE CLG CEILING COND CONDENSATE CONTR CONTRACTOR COP COEFFICIENT OF PERFORMANCE COP COPPER</p> <p>DAP DUCT ACCESS PANEL DB DRY BULB DDC DIRECT DIGITAL CONTROL DEG DEGREES DIA DIAMETER DIM DIMENSION DN DOWN DWG DRAWING DX DIRECT EXPANSION</p> <p>EA EXHAUST AIR EAT ENTERING AIR TEMPERATURE EC ELECTRICAL CONTRACTOR EDR EQUIVALENT DIRECT RADIATION EFF EFFICIENCY ELEC ELECTRICAL ELEV ELEVATION EM EMERGENCY ESR EXTERNAL STATIC PRESSURE EXIST EXISTING</p> <p>F FAHRENHEIT FD FORWARD CURVED FLA FULL LOAD AMPS FLR FLOOR FM FACTORY MUTUAL FPD FLUID PRESSURE DROP FPI FINS PER INCH FPM FEET PER MINUTE FPS FEET PER SECOND F&T FLOAT AND THERMOSTATIC FT FEET FTG FOOTING</p> <p>GAL GALLON GALV GALVANIZED GBD GRAVITY BACKDRAFT DAMPER GC GENERAL CONTRACTOR GPM GALLONS PER MINUTE GPH GALLONS PER HOUR</p> <p>HP HORSEPOWER ID INSIDE DIAMETER IE INVERT ELEVATION IN INCHES</p> <p>LAT LEAVING AIR TEMPERATURE LB/HR POUNDS PER HOUR LF LINEAR FEET LTG LIGHTING LWT LEAVING WATER TEMPERATURE</p>	<p>MBH MAXIMUM THOUSANDS OF BTU PER HOUR MCC MECHANICAL CONTRACTOR MCA MINIMUM CIRCUIT AMPACITY MCC MOTOR CONTROL CENTER MEP MECHANICAL, ELECTRICAL AND PLUMBING MER MECHANICAL EQUIPMENT ROOM MEZZ MEZZANINE MFR MANUFACTURER MIN MINIMUM MISC MISCELLANEOUS</p> <p>NA NOT APPLICABLE NC NORMALLY CLOSED NIC NOT IN CONTRACT NO NORMALLY OPEN NPS NOMINAL PIPE SIZE NPT NET POSITIVE SUCTION HEAD NPT NATIONAL PIPE THREAD NR NEAR NTS NOT TO SCALE</p> <p>OA OUTSIDE AIR OC ON CENTER OED OPEN END DUCT OLP OVERLOAD PROTECTION OV OUTLET VELOCITY</p> <p>PC PLUMBING CONTRACTOR PCF POUNDS PER CUBIC FOOT PD PRESSURE DROP PH PHASE PLB PLUMBING POC POINT OF CONNECTION PPH POUNDS PER HOUR PRV PRESSURE RELIEF VALVE PSF POUNDS PER SQUARE FOOT PSI POUNDS PER SQUARE INCH PSIA POUNDS PER SQUARE INCH ABSOLUTE PVC POLYVINYL CHLORIDE</p> <p>RA RETURN AIR REQD REQUIRED RF ROOF RH RELATIVE HUMIDITY RPM REVOLUTIONS PER MINUTE</p> <p>SA SUPPLY AIR SCH SCHEDULE SHT SHEET SP STATIC PRESSURE SPEC SPECIFICATION</p> <p>S/S STAINLESS STEEL STD STANDARD STRU STRUCTURAL</p> <p>T&P TEMPERATURE AND PRESSURE TA TRANSFER AIR TBR TO BE REMOVED TC TEMPERATURE CONTROL TEMP TEMPERATURE TOB TOP OF BEAM TOG TOP OF GROUND TOP TOP OF PIPE TSP TOTAL STATIC PRESSURE TSTAT TYPICAL</p> <p>UC UNDERCUT DOOR 1" (BY GENERAL CONTRACTOR) UNO UNLESS OTHERWISE NOTED</p> <p>V VOLTS VA VARIABLE AIR VOLUME VEL VELOCITY VP VELOCITY PRESSURE VTR VENT THRU ROOF</p> <p>W WITH W/O WITHOUT WB WET BULB WC WATER COLUMN WG WATER GAUGE</p> <p>X EXISTING</p>	<p>MAXIMUM THOUSANDS OF BTU PER HOUR MECHANICAL CONTRACTOR MINIMUM CIRCUIT AMPACITY MOTOR CONTROL CENTER MECHANICAL, ELECTRICAL AND PLUMBING MECHANICAL EQUIPMENT ROOM MEZZANINE MANUFACTURER MINIMUM MISCELLANEOUS</p> <p>NOT APPLICABLE NORMALLY CLOSED NOT IN CONTRACT NORMALLY OPEN NOMINAL PIPE SIZE NET POSITIVE SUCTION HEAD NATIONAL PIPE THREAD NEAR NOT TO SCALE</p> <p>OUTSIDE AIR ON CENTER OPEN END DUCT OVERLOAD PROTECTION OUTLET VELOCITY</p> <p>PLUMBING CONTRACTOR POUNDS PER CUBIC FOOT PRESSURE DROP PHASE PLUMBING POINT OF CONNECTION POUNDS PER HOUR PRESSURE RELIEF VALVE POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH ABSOLUTE POLYVINYL CHLORIDE</p> <p>RETURN AIR REQUIRED ROOF RELATIVE HUMIDITY REVOLUTIONS PER MINUTE</p> <p>SUPPLY AIR SCHEDULE SHEET STATIC PRESSURE SPECIFICATION</p> <p>STAINLESS STEEL STANDARD STRUCTURAL</p> <p>TEMPERATURE AND PRESSURE TRANSFER AIR TO BE REMOVED TEMPERATURE CONTROL TEMPERATURE TOP OF BEAM TOP OF GROUND TOP OF PIPE TOTAL STATIC PRESSURE TYPICAL</p> <p>UNDERCUT DOOR 1" (BY GENERAL CONTRACTOR) UNLESS OTHERWISE NOTED</p> <p>VOLTS VARIABLE AIR VOLUME VELOCITY VELOCITY PRESSURE VENT THRU ROOF</p> <p>WITH WITHOUT WET BULB WATER COLUMN WATER GAUGE</p> <p>X EXISTING</p>
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MECHANICAL EQUIPMENT ABBREVIATIONS

<p>AC AIR CONDITIONING UNIT/AIR COMPRESSOR ACC AIR COOLED CONDENSER ACU AIR COOLED CONDENSING UNIT AHU AIR HANDLING UNIT AMD AIR MIXING DEVICE ARU AIR ROTATION UNIT AS AIR SEPARATOR AT AIR TERMINAL DEVICE</p> <p>B BOILER BBS BOILER BLOWDOWN SEPARATOR BC BOOSTER COIL BFS BOILER FEEDWATER SYSTEM</p> <p>C CONNECTOR CO COOLING COIL CH CHILLER CP CONDENSATE PUMP CRU CONDENSATE RETURN UNIT CT COOLING TOWER CUH CABINET UNIT HEATER</p> <p>DC DUST COLLECTOR DH DEHUMIDIFIER</p> <p>EBB ELECTRIC BASEBOARD EF EXHAUST FAN EH EXHAUST HOOD EJ EXPANSION JOINT EUH ELECTRIC UNIT HEATER</p> <p>F FILTER FCU FAN COIL UNIT FD FLOOR DRAIN FOP FUEL OIL PUMP FOT FUEL OIL TANK FTR FIN TUBE RADIATION</p>	<p>GF GAS FURNACE GV GRAVITY VENTILATOR</p> <p>H HUMIDIFIER HC HEATING COIL HR HEAT PUMP HRC HEAT RECOVERY COIL HRD HEAT RECLAIM DEVICE HX HEAT EXCHANGER</p> <p>IAH INTAKE AIR HOOD IF INLINE FAN IFH INFRARED HEATER</p> <p>LP LOUVERED PENTHOUSE</p> <p>MAU MAKE-UP AIR UNIT MCC MOTOR CONTROL CENTER</p> <p>P PUMP</p> <p>RAHU ROOFTOP AIR HANDLING UNIT RCP RADIANT CEILING PANEL REF ROOF EXHAUST FAN RFN RETURN FAN RH RELIEF HOOD RTU ROOFTOP UNIT RV ROOF VENTILATOR</p> <p>SA SOUND ATTENUATOR SF SUPPLY FAN</p> <p>T TANK TXV THERMAL EXPANSION VALVE</p> <p>UH UNIT HEATER UST UNDERGROUND STORAGE TANK UV UNIT VENTILATOR</p> <p>V VALVE VFD VARIABLE FREQUENCY DRIVE VP VACUUM PUMP</p>	<p>AIR CONDITIONING UNIT/AIR COMPRESSOR AIR COOLED CONDENSER AIR COOLED CONDENSING UNIT AIR HANDLING UNIT AIR MIXING DEVICE AIR ROTATION UNIT AIR SEPARATOR AIR TERMINAL DEVICE</p> <p>GAS FURNACE GRAVITY VENTILATOR</p> <p>HUMIDIFIER HEATING COIL HEAT PUMP HEAT RECOVERY COIL HEAT RECLAIM DEVICE HEAT EXCHANGER</p> <p>INTAKE AIR HOOD INLINE FAN INFRARED HEATER</p> <p>LOUVERED PENTHOUSE</p> <p>MAKE-UP AIR UNIT MOTOR CONTROL CENTER</p> <p>PUMP</p> <p>ROOFTOP AIR HANDLING UNIT RADIANT CEILING PANEL ROOF EXHAUST FAN RETURN FAN RELIEF HOOD ROOFTOP UNIT ROOF VENTILATOR</p> <p>SOUND ATTENUATOR SUPPLY FAN</p> <p>TANK THERMAL EXPANSION VALVE</p> <p>UNIT HEATER UNDERGROUND STORAGE TANK UNIT VENTILATOR</p> <p>VALVE VARIABLE FREQUENCY DRIVE VACUUM PUMP</p>
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PIPING SYSTEMS AND FITTINGS

<p>BBD BOILER BLOW DOWN BF BOILER FEED BA BREATHABLE AIR CWS CHILLED WATER SUPPLY CWR CHILLED WATER RETURN CA COMPRESSED AIR CDS CONDENSER WATER SUPPLY CWR CONDENSER WATER RETURN D DRAIN LINE FOF FUEL OIL FILL FOS FUEL OIL SUPPLY FOR FUEL OIL RETURN FV FUEL OIL VENT GWS GLYCOL CHILLED WATER SUPPLY GWR GLYCOL CHILLED WATER RETURN HWS HEAT PUMP WATER SUPPLY HWR HEAT PUMP WATER RETURN HPS HIGH PRESSURE STEAM HPC HIGH PRESSURE CONDENSATE HWS HOT WATER SUPPLY HWR HOT WATER RETURN HUM HUMIDIFICATION LUP LIQUEFIED PETROLEUM GAS LPS LOW PRESSURE STEAM (10 PSIG) LPC LOW PRESSURE CONDENSATE MU MAKE-UP WATER MPS MEDIUM PRESSURE STEAM MPC MEDIUM PRESSURE CONDENSATE N NATURAL GAS N2 NITROGEN NL NITROGEN LINE PC PUMPED CONDENSATE RHG REFRIGERANT HOT GAS RL REFRIGERANT LIQUID RS REFRIGERANT SUCTION RV REFRIGERANT VENT VC VACUUM (AIR)</p>	<p>FLANGE UNION ANCHOR PIPE GUIDE ECCENTRIC REDUCER CONCENTRIC REDUCER LINE CONTINUATION BREAK PIPELINE STRAINER ELBOW DOWN ELBOW UP TEE DOWN TEE UP PIPE CAP VALVE IN VERTICAL</p>	<p>FLANGE UNION ANCHOR PIPE GUIDE ECCENTRIC REDUCER CONCENTRIC REDUCER LINE CONTINUATION BREAK PIPELINE STRAINER ELBOW DOWN ELBOW UP TEE DOWN TEE UP PIPE CAP VALVE IN VERTICAL</p>
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NOTE:
(X) PRIOR TO SYSTEM TYPE
DENOTES EXISTING PIPING
(i.e. XHWS - EXISTING HOT WATER SUPPLY)
(XX) = SYSTEM PRESSURE IN PSIG
(i.e. XX = 5 PSIG/G)

PIPE VALVES AND SPECIALTIES

<p>ANGLE VALVE BALANCING VALVE (CIRCUIT SETTER) BALL VALVE BUTTERFLY VALVE BUTTERFLY VALVE WITH ACTUATOR CHECK VALVE (ARROW INDICATES FLOW DIRECTION) DIAPHRAGM VALVE DRAIN VALVE WITH CAPPED OUTLET FLOAT OPERATED VALVE GATE VALVE GLOBE VALVE PLUG VALVE PRESSURE REDUCING VALVE PRESSURE RELIEF VALVE SHUTOFF VALVE (SEE SPECIFICATION FOR TYPE) SOLENOID VALVE THERMAL EXPANSION VALVE TRIPLE DUTY VALVE 2-WAY CONTROL VALVE 3-WAY CONTROL VALVE</p>	<p>AUTOMATIC AIR VENT MANUAL AIR VENT BALL JOINT EXPANSION JOINT FLEXIBLE CONNECTION FLOW SWITCH FLOW METER PETE'S PLUG PRESSURE GAUGE PRESSURE SWITCH STEAM TRAP (INDICATE TYPE: T - THERMOSTATIC TRAP F&T - FLOAT AND THERMOSTATIC TRAP IB - INVERTED BUCKET TRAP) THERMOMETER DIRECTION OF FLOW DIRECTION OF PITCH (RISE (R) OR DROP (D))</p>	<p>AUTOMATIC AIR VENT MANUAL AIR VENT BALL JOINT EXPANSION JOINT FLEXIBLE CONNECTION FLOW SWITCH FLOW METER PETE'S PLUG PRESSURE GAUGE PRESSURE SWITCH STEAM TRAP (INDICATE TYPE: T - THERMOSTATIC TRAP F&T - FLOAT AND THERMOSTATIC TRAP IB - INVERTED BUCKET TRAP) THERMOMETER DIRECTION OF FLOW DIRECTION OF PITCH (RISE (R) OR DROP (D))</p>
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DUCTWORK FITTINGS

<p>SINGLE LINE DUCTWORK DOUBLE LINE DUCTWORK RECTANGULAR/RROUND BRANCH TAKE OFF (SA, RA, AND EA) 1/4" D BUT NOT LESS 6" 1/4" W BUT NOT LESS 6" 15" MAX. FOR DIVERGING TRANSITION, 25" MAX. FOR CONVERGING TRANSITION - ECCENTRIC 15" MAX. FOR DIVERGING TRANSITION, 25" MAX. FOR CONVERGING TRANSITION - CONCENTRIC DUCT WITH FLOW DIRECTION ARROW LINE CONTINUATION BREAK (RECTANGULAR, ROUND) SUPPLY AIR (SA) OR OUTDOOR AIR (OA) DUCT UP SUPPLY AIR (SA) OR OUTDOOR AIR (OA) DUCT DOWN RETURN AIR (RA), RELIEF AIR OR TRANSFER AIR (TA) DUCT UP RETURN AIR (RA), RELIEF AIR OR TRANSFER AIR (TA) DUCT DOWN EXHAUST AIR (EA) DUCT UP EXHAUST AIR (EA) DUCT DOWN DUCT RISE/DROP W/ 90° ELBOWS (SUPPLY RECTANGULAR DUCT SHOWN) EITHER RADIUS OR SQUARE ELBOW (REFER TO SPECIFICATION FOR ADDITIONAL REQUIREMENTS) SQUARE ELBOW WITH TURNING VANES DUCT RISE (R) OR DROP (D) W/ 30° ELBOWS (RECTANGULAR DUCTS) DUCT CROSS OVER THIS DUCT RUNS UNDERNEATH</p>	<p>DUCT SIZE IN INCHES (NET INSIDE DIMENSIONS) FIRST FIGURE: SIDE SHOWN SECOND FIGURE: SIDE NOT SHOWN 12X12 12X12# 12X12# INDICATES OVAL ROUND DUCTWORK</p>	<p>DUCT WITH FLOW DIRECTION ARROW LINE CONTINUATION BREAK (RECTANGULAR, ROUND) SUPPLY AIR (SA) OR OUTDOOR AIR (OA) DUCT UP SUPPLY AIR (SA) OR OUTDOOR AIR (OA) DUCT DOWN RETURN AIR (RA), RELIEF AIR OR TRANSFER AIR (TA) DUCT UP RETURN AIR (RA), RELIEF AIR OR TRANSFER AIR (TA) DUCT DOWN EXHAUST AIR (EA) DUCT UP EXHAUST AIR (EA) DUCT DOWN DUCT RISE/DROP W/ 90° ELBOWS (SUPPLY RECTANGULAR DUCT SHOWN) EITHER RADIUS OR SQUARE ELBOW (REFER TO SPECIFICATION FOR ADDITIONAL REQUIREMENTS) SQUARE ELBOW WITH TURNING VANES DUCT RISE (R) OR DROP (D) W/ 30° ELBOWS (RECTANGULAR DUCTS) DUCT CROSS OVER THIS DUCT RUNS UNDERNEATH</p>
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DIFFUSER, GRILLE, AND REGISTER NOTATION

<p>SQUARE/RECTANGULAR SUPPLY DIFFUSER, GRILLE OR REGISTER ROUND DIFFUSER RETURN REGISTER OR GRILLE (HORIZONTAL MOUNT) EXHAUST REGISTER OR GRILLE (HORIZONTAL MOUNT) SIDEWALL REGISTER OR GRILLE WITH DAMPER (DUCT MOUNT)</p>	<p>SUPPLY REGISTER OR GRILLE (VERTICAL MOUNT) EXHAUST OR RETURN REGISTER OR GRILLE (VERTICAL MOUNT)</p>	<p>DIFFUSER/GRILLE MARK CFM NECK SIZE TYPICAL OF QUANTITY 12X12 10X6 (TYP 2)</p>
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DAMPERS AND CONTROLS

<p>MANUAL VOLUME DAMPER FIRE DAMPER SMOKE DAMPER COMBINATION FIRE/SMOKE DAMPER BACKDRAFT DAMPER MOTORIZED DAMPER</p>	<p>SPACE THERMOSTAT SPACE HUMIDISTAT NIGHT CYCLE CONTROL THERMOSTAT TEMPERATURE SENSOR HUMIDITY SENSOR PRESSURE SENSOR DUCT SMOKE DETECTOR STARTER SWITCH</p>	<p>MANUAL VOLUME DAMPER FIRE DAMPER SMOKE DAMPER COMBINATION FIRE/SMOKE DAMPER BACKDRAFT DAMPER MOTORIZED DAMPER</p>
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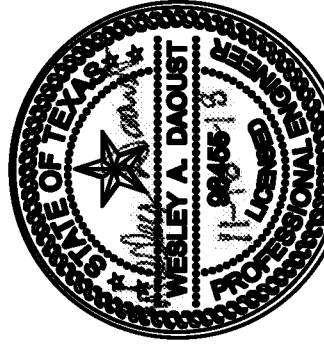
DUCTWORK SPECIALTIES

<p>DUCT REHEAT COIL TEST HOLE ACCESS DOOR NEW TO EXISTING DUCT CONNECTION REMOVE EXISTING DUCTWORK</p>	<p>FLEXIBLE DUCT POINT OF CHANGE IN DUCT CONSTRUCTION BY PRESSURE CLASS LINED DUCTWORK</p>	<p>DUCT REHEAT COIL TEST HOLE ACCESS DOOR NEW TO EXISTING DUCT CONNECTION REMOVE EXISTING DUCTWORK</p>
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GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER AND SHALL COMPLY WITH ALL ADOPTED LOCAL, STATE, AND NATIONAL CODES.
2. DO NOT SCALE THE DRAWINGS.
3. DRAWINGS ARE DIAGRAMMATIC. CONTRACTOR TO INSTALL PIPE AND DUCTWORK IN A MANNER ACCORDING TO GOOD PRACTICE. ANY MAJOR DEVIATIONS REQUIRED FROM THE DESIGN DRAWINGS SHALL BE VERIFIED WITH THE ENGINEER/ARCHITECT.
4. FINAL ELECTRICAL CONNECTIONS AT OR ABOVE 120V SHALL BE MADE BY THE ELECTRICAL CONTRACTOR.
5. INSTALL BALANCING DAMPERS AND SPLITTER DAMPERS AS SHOWN AND AS REQUIRED FOR PROPER BALANCING OF THE MECHANICAL SYSTEM. PROVIDE TO THE ENGINEER/OWNER A BALANCING REPORT SHOWING RESULTS OF BALANCE TESTING. ALL BALANCE TESTING SHALL MEET THE CURRENT NEBB STANDARDS.
6. DO NOT LOCATE FCUS, VAVS, OR FPT'S ABOVE LIGHTS OR CONFERENCE ROOMS.
7. REFER TO STRUCTURAL DRAWINGS AND OTHER DISCIPLINES FOR COORDINATING DUCT ROUTING IN CEILING PLENUM SPACE.
8. PROVIDE A SET OF RECORD DRAWINGS OF THE ACTUAL INSTALLATION. RECORD DRAWINGS SHALL INCLUDE AS A MINIMUM, THE LOCATION AND PERFORMANCE DATA ON EACH PIECE OF EQUIPMENT. GENERAL CONFIGURATION OF DUCT & PIPE DISTRIBUTION SYSTEM INCLUDING SIZES AND THE TERMINAL AIR DESIGN FLOW RATES.
9. AVOID ROUTING OF PIPING OR DUCTWORK ABOVE IT, ELECTRICAL OR FIRE EQUIPMENT ROOMS.
10. PROVIDE APPROPRIATELY RATED FIRE STOPPING FOR PENETRATIONS THROUGH FIRE-RATED WALLS. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF FIRE RATED STRUCTURES.
11. COORDINATE THERMOSTAT, SENSOR AND SWITCH LOCATIONS WITH ARCHITECT/OWNER PRIOR TO INSTALLATION.
12. PROVIDE DUCT TRANSITIONS FROM EQUIPMENT CONNECTIONS TO DUCT SIZES SHOWN.
13. FLEXIBLE DUCT SHALL BE INSULATED AND SHALL BE THE SAME SIZE OF THE NECK OF THE AIR DEVICE. FLEXIBLE DUCTWORK SHALL NOT EXCEED 8'-0" IN LENGTH. PROVIDE WRAPPED RIGID ROUND DUCTWORK FOR TAKE-OFFS IN EXCESS OF 8'-0".
14. MAINTAIN A MINIMUM 1'-0" SEPARATION FROM OUTSIDE AIR INTAKES TO EXHAUST TERMINATIONS AND VENTS.
15. MAINTAIN A MINIMUM 5'-0" SEPARATION FROM EXHAUST TERMINATIONS TO OPERABLE WINDOWS.
16. ALL UNLINED DUCTWORK VISIBLE THROUGH THE AIR DEVICE SHALL BE PAINTED FLAT BLACK.
17. CEILING TILES USED TO ACCESS FAN COIL UNITS TO BE LABELED.
18. CONDENSATE DRAIN LINES SHALL BE COMPLETELY INSTALLED FOR ALL EQUIPMENT AND COMPLY WITH MANUFACTURER'S RECOMMENDED INSTALLATION INSTRUCTIONS. ALL CONDENSATE LINES TO BE INSULATED.

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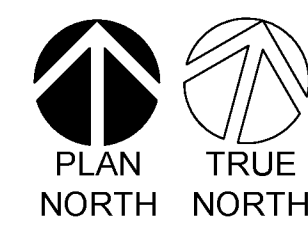
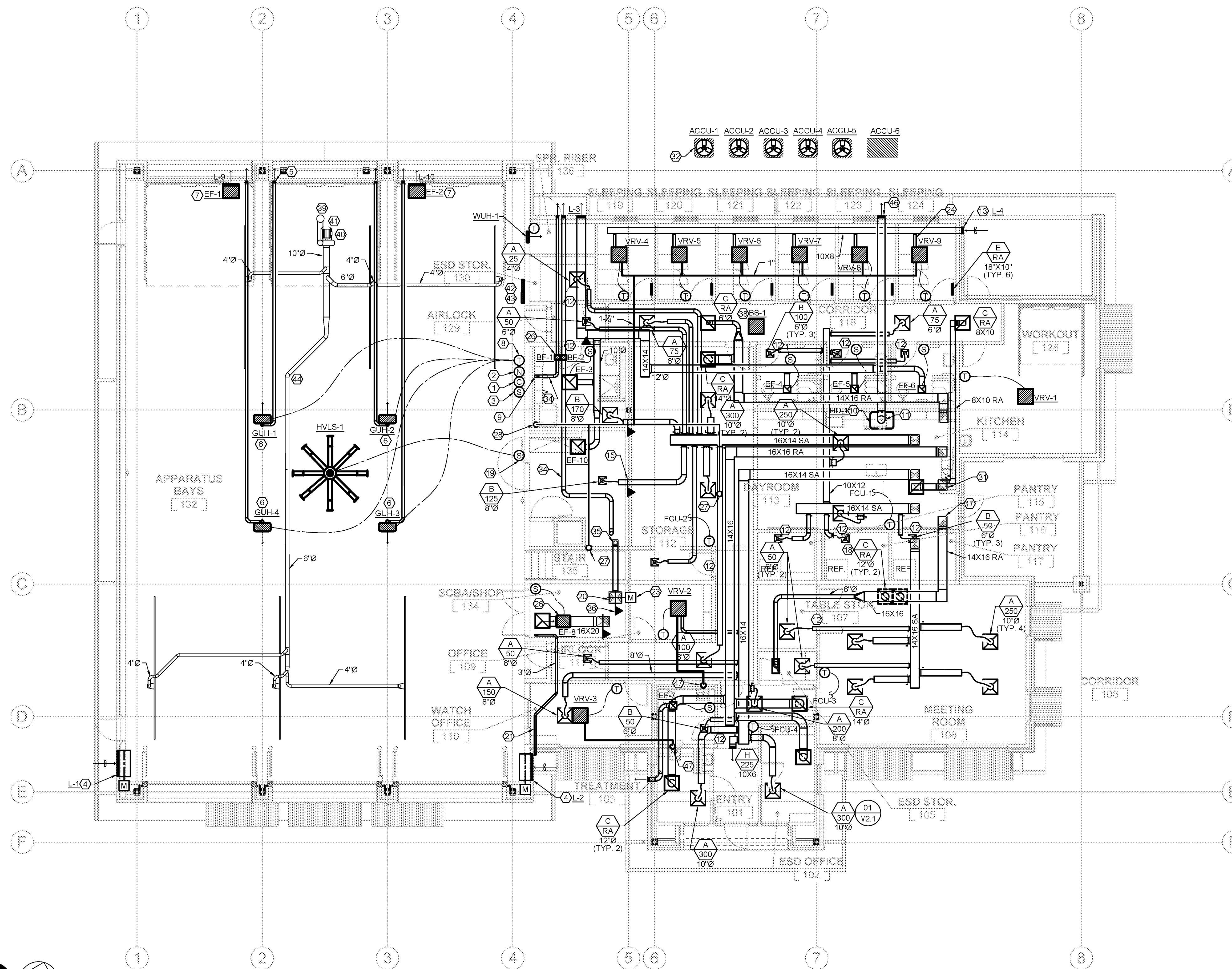
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1436 Woodbridge Road, Part 1 B
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Registration No. E-3834

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BRW PROJECT NUMBER 217079.00

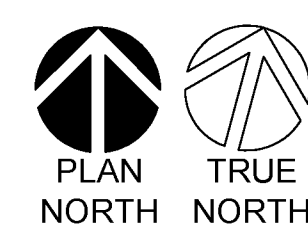
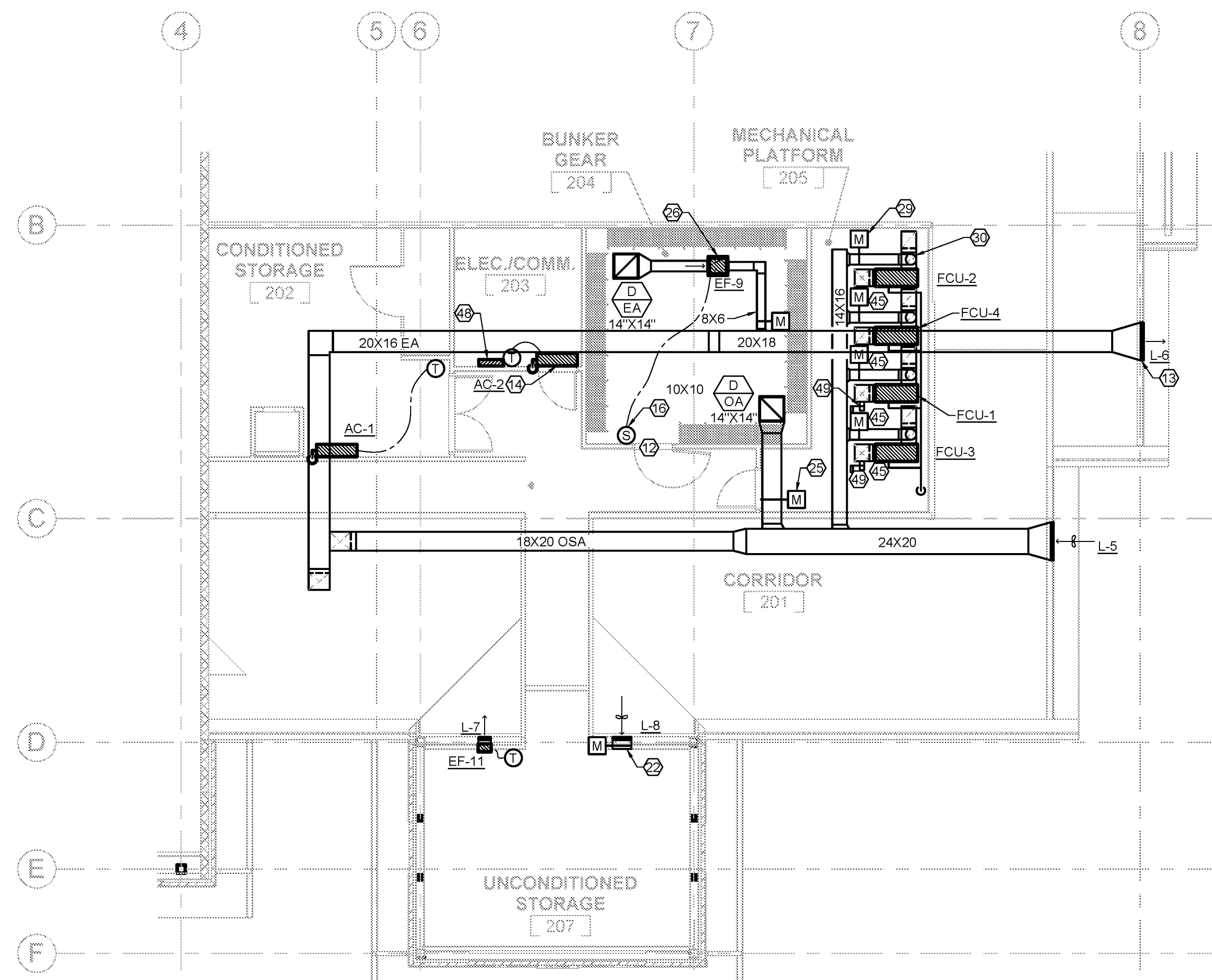
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GEORGETOWN FIRE STATION No. 6
6700 R.M. 2338
GEORGETOWN, TX, 78626

NO.	REVISION	DATE

M0.0



1 FIRST FLOOR PLAN-MECHANICAL
1/8" = 1'-0"



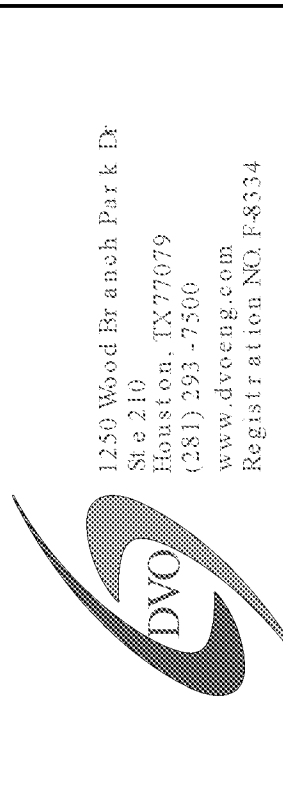
2 SECOND FLOOR PLAN-MECHANICAL
1/8" = 1'-0"

GENERAL MECHANICAL NOTES:

- A. ALL DUCTWORK AND DIFFUSER/GRILLE BACK INSULATION TO HAVE A VALUE OF NO LESS THAN R-8. INSULATE ALL SUPPLY DUCTWORK.
- B. ALL OUTSIDE AIR INTAKES TO BE A MINIMUM OF 10' FROM THE NEAREST EXHAUST PORT.
- C. ALL EQUIPMENT TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
- D. PROVIDE ACCESS PANELS TO ACCESS EQUIPMENT LOCATED ABOVE HARD LID CEILING. RE. ARCHITECTURAL.
- E. INSTALL ALL DUCTWORK BELOW BOTTOM CHORD OF TRUSS, WITHIN BUILDING ENVELOPE. RE. ARCHITECTURAL.

KEYED NOTES:

1. PROVIDE CO SENSOR AND INTERLOCK WITH EXHAUST FANS AND LOUVERS (EF-1 & L-2). MOUNT SENSOR AT 48" A.F.F. DAMPER TO OPEN AND FAN TO ACTIVATE TO PURGE SPACE WHEN CO IS DETECTED IN EXCESS OF 25 PPM. PROVIDE AUDIO AND VISUAL ALARM AND INTERLOCK WITH STATION ALERTING SYSTEM WHEN CO EXCEEDS MANUFACTURER RECOMMENDED SETPOINTS.
2. PROVIDE NOX SENSOR AND INTERLOCK WITH EXHAUST FANS AND LOUVERS (EF-1 & L-2). MOUNT SENSOR AT 30" BELOW CEILING PANEL DAMPER TO OPEN AND FAN TO ACTIVATE TO PURGE SPACE WHEN NOX IS DETECTED IN EXCESS OF 0.7 PPM. PROVIDE AUDIO AND VISUAL ALARM AND INTERLOCK WITH STATION ALERTING SYSTEM WHEN NOX EXCEEDS MANUFACTURER RECOMMENDED SETPOINTS.
3. PROVIDE OVERRIDE SWITCH FOR ASSOCIATED FANS AND LOUVERS (EF-1 & L-2). MOUNT AT 48" A.F.F. ALL CO AND NOX ALARMS SHALL NULLIFY OVERRIDE SWITCH.
4. INTERLOCK MOTORIZED DAMPER WITH EXHAUST FANS (EF-1 & EF-2) OPERATION. REFER TO ARCHITECTURAL FOR LOUVER LOCATION.
5. ROUTE 4" Ø TYPE B-VENT CONCENTRIC GAS FLUE ABOVE CEILING TO BACK SIDE OF BUILDING. COORDINATE FINAL LOCATION WITH ARCHITECT AND ENSURE UNITS ARE RATED FOR EXHAUST RUN LENGTHS PRIOR TO STARTING WORK. PROVIDE WITH WALL FLUE VENT CAP AT OUTLET. SIZE, ROUTE, AND INSTALL PER MANUFACTURER RECOMMENDATIONS. MOUNT ACCORDING TO MANUFACTURER SPECIFICATIONS (TYP. 4).
6. PROPANE GAS FIRED UNIT HEATER OPERATION TO BE INTERLOCKED WITH OVERHEAD DOORS. UNIT TO BE DISABLED WHEN DOORS ARE OPEN.
7. EXHAUST FAN TO BE MOUNTED TIGHT TO CEILING.
8. INTERLOCK GAS UNIT HEATERS WITH WALL MOUNTED THERMOSTAT.
9. PROVIDE 4" Ø EXHAUST DUCT CONNECTION FOR CLOTHES DRYER. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. ENSURE ALL REQUIRED CLEARANCES AND REQUIREMENTS PER SECTIONS 503.3.1 AND 504 OF THE 2012 INTERNATIONAL MECHANICAL CODE.
10. PROVIDE 12" Ø EXHAUST DUCTWORK DOWN TO RANGE HOOD, HD-1.
11. ROUTE 12" Ø EXHAUST DUCTWORK THROUGH BACK SIDE OF BUILDING. COORDINATE FINAL LOCATION WITH ARCHITECT AND ENSURE RANGE HOOD IS RATED FOR EXHAUST RUN LENGTHS PRIOR TO STARTING WORK. PROVIDE WITH WALL CAP AT OUTLET. SIZE, ROUTE, AND INSTALL PER MANUFACTURER RECOMMENDATIONS.
12. UNDERCUT DOOR 3/4" FOR AIR TRANSFER.
13. COORDINATE FINAL LOUVER LOCATION WITH ARCHITECT (TYP.).
14. MOUNT UNIT ABOVE DOOR.
15. PROVIDE FIRE DAMPER ON DUCT THROUGH WALL (TYP.).
16. MOUNT TIMER SWITCH 48" A.F.F. AND INTERLOCK WITH EF-9. COORDINATE FINAL LOCATION WITH ARCHITECT AND TENANT.
17. DUCTWORK SERVES FAN COIL UNITS ON MECHANICAL PLATFORM. RE SECOND FLOOR PLAN-MECHANICAL (TYP.).
18. SIZE RETURN AIR GRILLES PER SCHEDULE LOCATED ON M2.1 (TYP.).
19. WALL MOUNTED SPEED CONTROLLER FOR HVLS-1.
20. TERMINATE DUCTWORK WITH WIRE MESH 20" A.F.F.
21. 3" INNER DIAMETER PVC PIPE FOR FRESH AIR INTAKE OF SCBA EQUIPMENT. CONTRACTOR SHALL CUT HOLE IN TOP OF SCBA PER MANUFACTURER'S INSTRUCTIONS. PIPE TO RUN ABOVE CEILING AND THROUGH WALL ABOVE LOUVER. TURN DOWN AND EXTEND 12". TERMINATE WITH INSECT SCREEN. PAINT ASSEMBLY TO MATCH WALL COLOR.
22. INTERLOCK MOTORIZED DAMPER WITH ASSOCIATED EF-11 OPERATION.
23. INTERLOCK MOTORIZED DAMPER WITH ASSOCIATED EF-8 OPERATION. DAMPER TO BE INSTALLED BELOW TAKE-OFF FOR GEAR DRYER MAKE-UP AIR.
24. DUCT 4" Ø OUTSIDE AIR DUCT TO VRV-1. BALANCE TO AIR FLOW SHOWN IN VARIABLE AIR VOLUME SCHEDULE (TYP.).
25. INTERLOCK MOTORIZED DAMPER WITH ASSOCIATED EF-8 OPERATION.
26. PROVIDE ACCESS HATCH FOR EQUIPMENT.
27. 3/4" CONDENSATE DRAIN DOWN FROM ABOVE. CONTRACTOR TO VERIFY SLOPE AND CLEARANCES BEFORE STARTING WORK. PROVIDE 1/2" INSULATION ON PIPING (TYP. 4).
28. 1-1/2" CONDENSATE DOWN IN WALL TO FLOOR SINK. PROVIDE AIR GAP FITTING.
29. INTERLOCK MOTORIZED DAMPER WITH ASSOCIATED FCU OPERATION (TYP.).
30. ROUTE OUTSIDE AIR DUCT DOWN AND CONNECT TO FCU RETURN AIR DUCT. BALANCE TO AIRFLOW SHOWN IN SCHEDULE (TYP.).
31. 6"X14" AND 10"X14" RETURN AIR DUCT UP TO 16"X14" RETURN AIR DUCT.
32. ROUTE REFRIGERANT PIPING FOR ACCU-5 IN PVC SLEEVE SPECIFIED BY ARCHITECT. COORDINATE FINAL ACCU LOCATIONS AND EQUIPMENT PADS WITH ARCHITECTURAL PLANS.
33. CONTRACTOR TO ENSURE THAT EXHAUST IS INSTALLED A MINIMUM OF 10' FROM INTAKE LOUVER.
34. DRYER EXHAUST DUCT SHALL BE CONSTRUCTED OF GALVANIZED STEEL OR ALUMINUM AND MEET THE REQUIREMENTS OF 2015 IMC SECTION 603.4.
35. ROUTE 8"X8" MAKE UP AIR DUCTWORK FOR GEAR DRYER BELOW STAIRS. TERMINATE DUCTWORK WITH WIRE MESH 36" A.F.F.
36. PROVIDE FIRE DAMPER AT FLOOR PENETRATION PER 2012 IMC (TYP.).
37. ADD ALTERNATE 5: APPARATUS EXHAUST SYSTEM SHOWN FOR COORDINATION PURPOSES ONLY. COORDINATE WITH MAGNEGRIP MANUFACTURER AND TENANT FOR FINAL LOCATION, ROUTING, AND SIZING OF ALL EQUIPMENT, DUCTWORK, AND ALL APPURTENANCES.
38. FINAL EQUIPMENT LOCATION TO BE DETERMINED BY EQUIPMENT MANUFACTURER. COORDINATE WITH OTHER DISCIPLINE REQUIREMENTS AS NECESSARY.
39. ADD ALTERNATE 5: ROOF PENETRATION FOR FAN DISCHARGE.
40. ADD ALTERNATE 5: 7.5 HP FAN MOUNTED INSIDE STRUCTURE. PROVIDE ACCESS PANEL IN CEILING TO SERVICE EQUIPMENT.
41. ADD ALTERNATE 5: VERTICAL FAN STACK WITH BACKDRAFT DAMPER AND WEATHER COVER.
42. ADD ALTERNATE 5: FUSED ELECTRICAL DISCONNECT.
43. ADD ALTERNATE 5: PLYMVENT CENTRAL CONTROL PANEL.
44. ADD ALTERNATE 5: VEHICLE EXHAUST EXTRACTION SYSTEM TO BE PLYMVENT MODEL ONLY. ALL DUCTWORK AND EQUIPMENT TO BE INSTALLED ABOVE THE CEILING UNLESS OTHERWISE REQUIRED BY THE MANUFACTURER. CONTACT AIR CLEANING TECHNOLOGIES FOR EQUIPMENT SPECIFICATIONS AND INSTALLATION DETAILS. CONTACT: AARON STEWART, EMAIL: AARON@AIRCLEANINGTECH.COM, OFFICE # 800.351.1858 EXT. 104, CELL # 918.852.0749.
45. 3/4" CONDENSATE LINE ROUTED TO FLOOR SINK IN MECHANICAL ROOM. PROVIDE 1/2" INSULATION ON PIPING.
46. COORDINATE FINAL PENETRATION LOCATION WITH ARCHITECT.
47. CONNECT CONDENSATE TO FIXTURE TAILPIECE. PROVIDE WITH AIR GAP FITTING.
48. JACE PANEL, SPECIFIED BY OTHERS. COORDINATE FINAL LOCATION WITH ELECTRICAL EQUIPMENT. REFER TO TEMPSIT SPECIFICATIONS FOR ADDITIONAL EQUIPMENT INFORMATION.
49. PROVIDE 4" TAP WITH MANUAL VOLUME DAMPER BALANCED TO 25 CFM OFF OF SUPPLY DUCT.

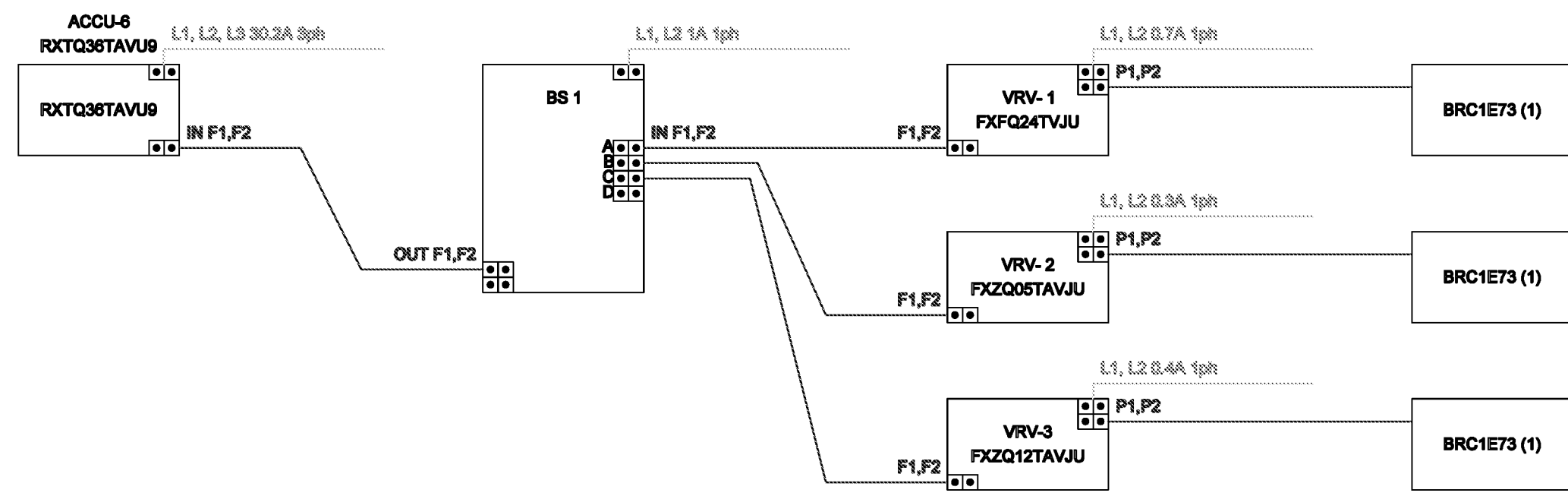


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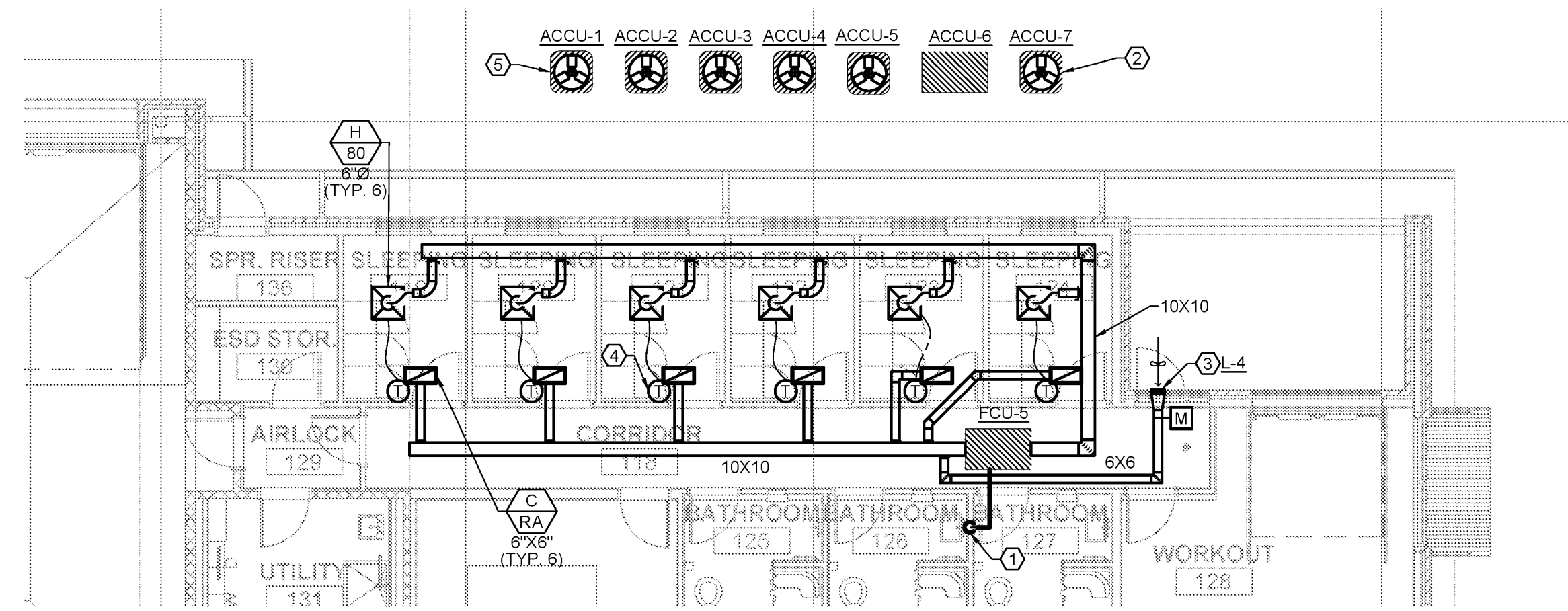
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M1.1
MECHANICAL FLOOR PLANS



2 VRV WIRING DIAGRAM
SCALE: NTS

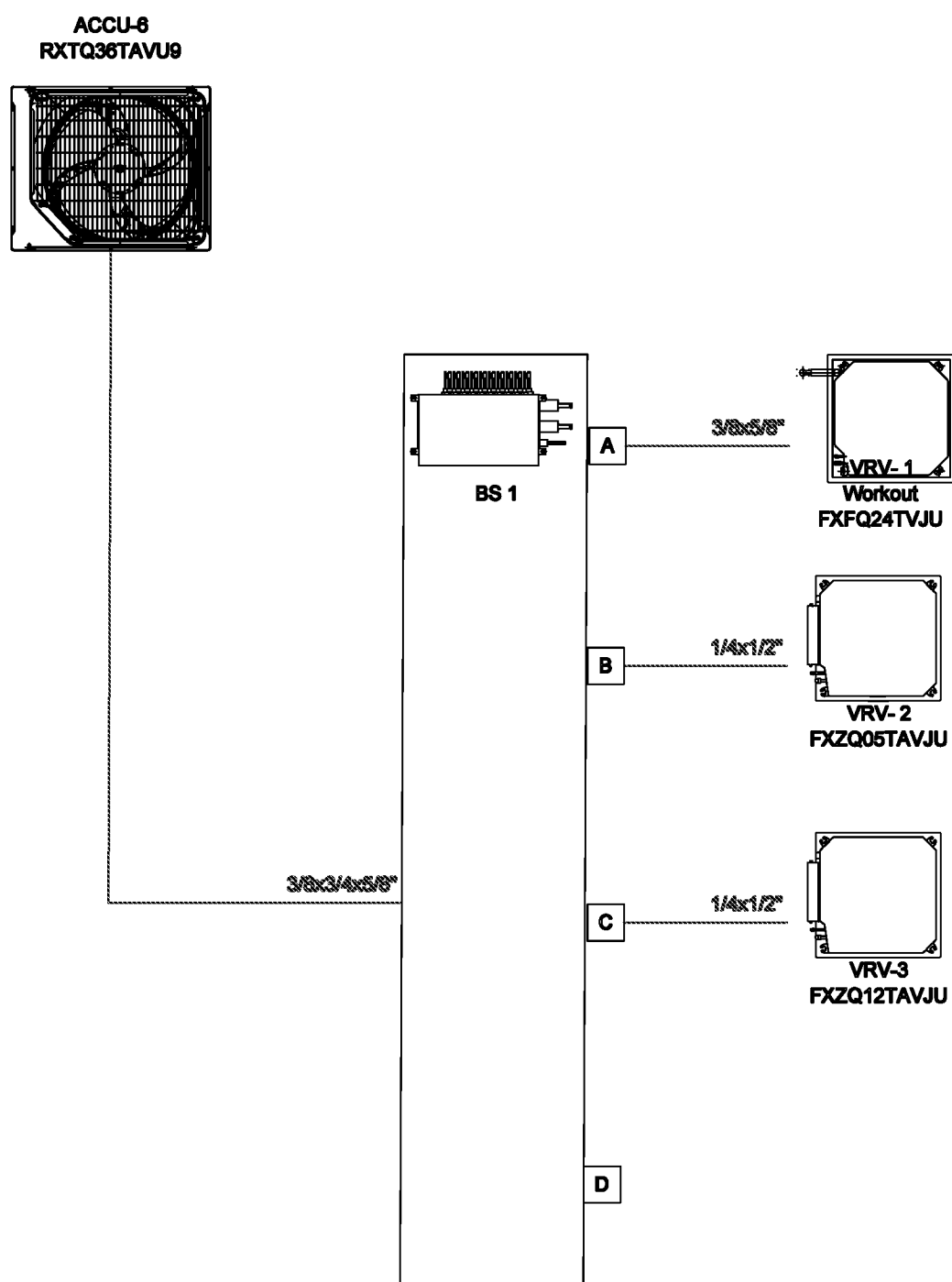


GENERAL MECHANICAL NOTES:

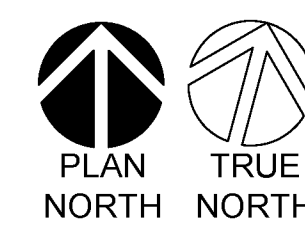
- ALL DUCTWORK AND DIFFUSER/GRILLE BACK INSULATION TO HAVE A VALUE OF NO LESS THAN R-8. INSULATE ALL SUPPLY DUCTWORK.
- ALL OUTSIDE AIR INTAKES TO BE A MINIMUM OF 10' FROM THE NEAREST EXHAUST PORT.
- ALL EQUIPMENT TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE ACCESS PANELS TO ACCESS EQUIPMENT LOCATED ABOVE HARD LID CEILING. RE: ARCHITECTURAL.
- INSTALL ALL DUCTWORK BELOW BOTTOM CORD OF TRUSS, WITHIN BUILDING ENVELOPE. RE: ARCHITECTURAL.

KEYED NOTES:

- CONNECT CONDENSATE LINE FROM MECHANICAL EQUIPMENT TO PLUMBING FIXTURE TAILPIECE. PROVIDE WITH AIR GAP FITTING.
- ROUTE REFRIGERANT PIPING FOR ACCUS IN PVC SLEEVE PROVIDED BY ARCHITECT. COORDINATE FINAL ACCU LOCATIONS WITH ARCHITECTURAL PLANS.
- COORDINATE FINAL LOUVER LOCATION WITH ARCHITECT.
- PROVIDE VAV DIFFUSER WITH MANUFACTURER SPECIFIED THERMOSTAT. COORDINATE FINAL MOUNTING HEIGHT AND LOCATION WITH ARCHITECT. (TYP.)
- ACCU-1 THROUGH ACCU-5 ARE SHOWN FOR COORDINATION PURPOSES ONLY. REFER TO BASELINE DESIGN FOR EQUIPMENT INFORMATION.



1 VRV PIPING DIAGRAM
SCALE: NTS



FIRST FLOOR PLAN-MECHANICAL DEDUCT ALTERNATE # 3
1/8" = 1'-0"

FAN AND COIL UNIT SCHEDULE - ELECTRIC HEAT (DEDUCT ALT. #3)																	
MARK	SUPPLY CFM	OA CFM	DX COOLING COIL				TOTAL BTUH	SENSIBLE BTUH	SUPPLY FAN		ELECTRIC HEAT	VOLTS PHASE	MCA	MOCP	WEIGHT LBS.	REFRIG.	MANUFACTURER
			SUMMER EAT DBWB	LAT DB / WB	OA TEMP DB / WB	EA TEMP DB / WB			HP	STATIC PRESS							
FCU-5	675	100	78.2 / 64.6	57.2 / 56.7	99 / 75	16,000	13,000	1 / 3	0.5	4 KW	208 / 1	12.8	15	100	R-410A	DAIKIN FDMQ18RVJU	

- SELECT SYSTEM ON ARI CONDITIONS.
- CONDENSING UNIT AND FAN & COIL UNIT TO MATCH.
- FILTERS TO BE AS SPECIFIED.
- STATIC PRESSURE INCLUDES DUCTWORK, GRILLES AND RETURN AIR LOSS.
- STATIC PRESSURE LOSS THRU FILTER IS CLEAN.
- STAINLESS STEEL IAQ DRAIN PANS.
- PROVIDE UNITS WITH CONDENSATE FLOAT SWITCH IN THE PRIMARY DRAIN PAN. REFER TO DETAIL.
- REFER TO PLANS FOR UNIT ORIENTATION AND DUCT LOCATIONS.
- PROVIDE WITH ACCESSIBLE HINGED ACCESS DOORS FOR MONTHLY MAINTENANCE.
- PROVIDE FCU WITH PROGRAMMABLE THERMOSTAT.
- PROVIDE SPRING VIBRATION ISOLATION FOR UNIT.
- FAN COIL TAKES POWER FROM CONDENSING UNIT.

AIR COOLED CONDENSING UNIT SCHEDULE (DEDUCT ALT. #3)											
MARK	SERVES	TOTAL BTUH	AMBIENT TEMP	SEER / EER	VOLTS PHASE	MCA	MOCP	WEIGHT LBS.	REFRIG.	MANUFACTURER	NOTES
ACCU-6	VRVS	20,000	105	18 / 12	208 / 1	16.5	25	200	R-410A	DAIKIN RXTQ36TAVU9	4,5,6,7,8,9,10
ACCU-7	FCU-5	16,000	105	18.5 / 12.5	208 / 1	12.8	15	125	R-410A	DAIKIN RX18RMVJU	1,2,3

- PROVIDE UNIT WITH CRANK CASE HEATER, SITE GLASS, HIGH & LOW LIMIT SWITCHES, TIME GUARD RELAY, LIQUID LINE FILTER DRYER AND CONVENIENCE OUTLET.
- INSTALL ALL UNITS ON 4" CONCRETE PAD.
- PROVIDE WITH LOW AMBIENT CONTROL KIT.
- SYSTEM MUST PROVIDE CONTINUOUS HEATING DURING DEFROST AND OIL RETURN. SYSTEMS WITHOUT THIS CAPABILITY MUST BE DE-RATED TO ACCOUNT FOR HEATING LOST DURING DEFROST CYCLE AND UNIT.
- CONDENSING UNITS MUST HAVE AUTO CHANGE OVER FUNCTIONS.
- SYSTEM SHALL BE PROVIDED WITH I-TOUCH MANAGER CONTROLLER WITH WEB BASED SOFTWARE FOR DISPLAYING UP TO 8 DIII - NET SYSTEMS WITH 128 INDOOR UNITS PER SYSTEM. PC BY OTHERS.
- MANUFACTURER'S SUBMITTAL MUST INCLUDE REFRIGERANT PIPING DIAGRAM WITH PIPE DIAMETERS, LENGTHS, AND REFRIGERANT VOLUME.
- CONTRACTOR TO VERIFY PIPING DIMENSIONS.
- INSTALLING CONTRACTOR MUST HAVE SUCCESSFULLY COMPLETED MANUFACTURER'S CERTIFIED INSTALLATION CLASS WITHIN PAST 36 MONTHS.
- MANUFACTURER MUST PROVIDE 10 YEARS PARTS WARRANTY ON ALL VRVS, CONDENSING UNITS, MODE CHANGE OVER DEVICES, AND ZONE CONTROLS. WARRANTY CONDITIONS MUST BE CLARIFIED DURING SUBMITTAL PHASE.

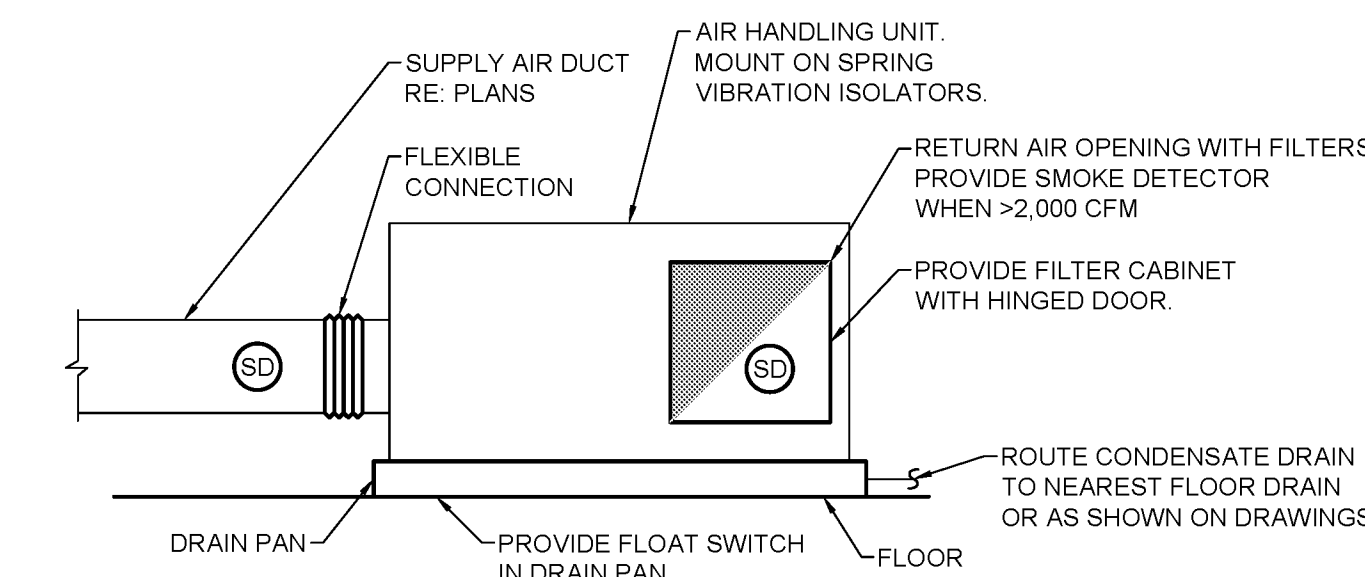
AIR DEVICE SCHEDULE (DEDUCT ALT. #3)					
MARK	DESCRIPTION	RADIATION DAMPER	OBD DAMPER	MANUFACTURER: TITUS OR EQUAL	
C	RETURN AIR GRILLE	NO	NO	PAR - AA, PERFORATED FACE LAY-IN. SEE PLANS FOR SIZE	
H	VAV SUPPLY DIFFUSER	NO	NO	T35Q-2, LAY-IN, 24X24	

- VERIFY ALL CEILING TYPES WITH ARCHITECTURAL DRAWINGS.
- ALL AIR DEVICES SHALL BE ALUMINUM, UNLESS NOTED.
- SUPPLY RADIATION DAMPERS FOR DEVICES PENETRATING RATED CEILINGS.
- VERIFY FINAL COLOR / FINISH WITH ARCHITECT FOR ALL DIFFUSERS AND GRILLES.

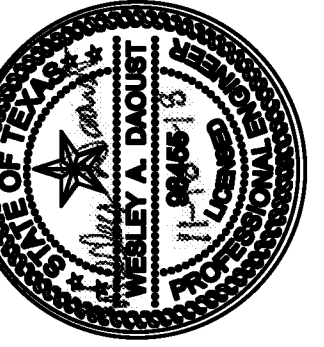
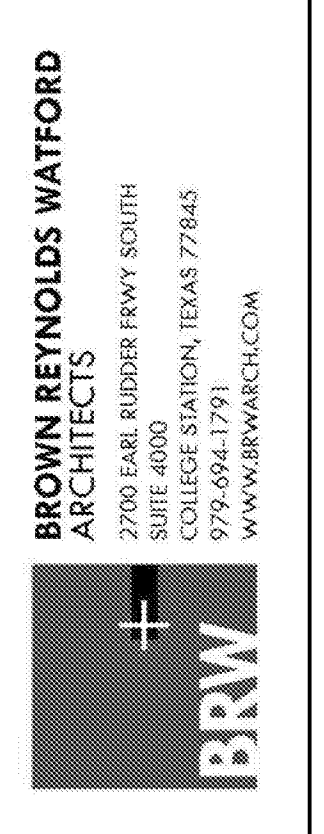
VARIABLE REFRIGERANT VOLUME INDOOR UNIT SCHEDULE (DEDUCT ALT. #3)

MARK	SERVES	SUPPLY CFM	COOLING MBH	HEATING MBH	VOLTS PHASE	MCA	MOCP	WEIGHT (LBS)	MANUFACTURER	NOTES
VRV-1	WORKOUT	775	11	7.5	208 / 1	0.7	15	60	DAIKIN FXFQ24TVJU	1,2
VRV-2	OFFICE	300	1	0.5	208 / 1	0.3	15	50	DAIKIN FXZQ05AVJU	1,2
VRV-3	WATCH OFFICE	350	8	3	208 / 1	0.4	15	50	DAIKIN FXZQ12AVJU	2

- PROVIDE WITH MANUFACTURER'S FRESH AIR INTAKE KIT.
- REFER TO BASELINE DESIGN FOR EQUIPMENT LOCATIONS.



01 FAN COIL UNIT - HORIZONTAL
SCALE: NTS



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Registration No. 18334

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PROJECT NUMBER: 217079-00

CITY OF GEORGETOWN
GEORGETOWN FIRE STATION No. 6
6700 R.M. 2338
GEORGETOWN, TX, 78626

NO.	REVISION	DATE

M1.1A

COMcheck Software Version 4.0.8.1
Mechanical Compliance Certificate

Project Information
 Energy Code: 2015 IECC
 Project Title: GEORGETOWN FIRE STATION NO. 6
 Location: Austin, Texas
 Climate Zone: 2a
 Project Type: New Construction

Construction Site: 6700 RM 2338
 GEORGETOWN, TX 78626
 Owner/Agent: WILLIAMSON COUNTY/CITY OF GEORGETOWN
 GEORGETOWN, TX 78626
 Designer/Contractor: EMILEE WILLIAMS
 DVO ENGINEERING
 1641 CALIFORNIA ST
 SUITE 100
 DENVER, CO 80202
 720.479.0502 EXT. 162
 EWILLIAMS@DVOENG.COM

Additional Efficiency Package(s)

Reducast irradiator lighting power. Requirements are implicitly enforced within interior lighting allowance calculations.

Mechanical Systems List

Quantity	System Type & Description
1	FCU-1 (Single Zone) Heating: 1 each - Central Furnace, Electric, Capacity = 21 kBtu/h No minimum efficiency requirement applies Cooling: 1 each - Split System, Capacity = 30 kBtu/h, Air-Cooled Condenser, No Economizer, Economizer exception: Low Capacity Residential Proposed Efficiency = 13.00 SEER, Required Efficiency: 13.00 SEER Fan System: None
1	FCU-2 (Single Zone) Heating: 1 each - Central Furnace, Electric, Capacity = 20 kBtu/h No minimum efficiency requirement applies Cooling: 1 each - Split System, Capacity = 30 kBtu/h, Air-Cooled Condenser, No Economizer, Economizer exception: Low Capacity Residential Proposed Efficiency = 13.00 SEER, Required Efficiency: 13.00 SEER Fan System: None
1	FCU-3 (Single Zone) Heating: 1 each - Central Furnace, Electric, Capacity = 20 kBtu/h No minimum efficiency requirement applies Cooling: 1 each - Split System, Capacity = 42 kBtu/h, Air-Cooled Condenser, No Economizer, Economizer exception: Low Capacity Residential Proposed Efficiency = 13.00 SEER, Required Efficiency: 13.00 SEER Fan System: None
1	FCU-4 (Single Zone) Heating: 1 each - Central Furnace, Electric, Capacity = 20 kBtu/h No minimum efficiency requirement applies Cooling: 1 each - Split System, Capacity = 36 kBtu/h, Air-Cooled Condenser, No Economizer, Economizer exception: Low Capacity Residential Proposed Efficiency = 13.00 SEER, Required Efficiency: 13.00 SEER Fan System: None
1	VRV-1 (Single Zone) VRF, Air Cooled w/ Heat Recovery Heat Pump Heating Mode: Capacity = 8 kBtu/h

Project Title: GEORGETOWN FIRE STATION NO. 6
 Date filename: O:\Houston1\ALL PROJECTS\Folder\2018\182001 Georgetown Fire Station No. 6\MEP\Energy Page 1 of 20
 Form\MECH COMCHECK.cck Report date: 04/25/18

Quantity	System Type & Description
1	VRV-2 (Single Zone) VRF, Air Cooled w/ Heat Recovery Heat Pump Heating Mode: Capacity = 1 kBtu/h No minimum efficiency requirement applies Cooling Mode: Capacity = 4 kBtu/h No minimum efficiency requirement applies Fan System: VRVS - Compliance (Motor nameplate HP method) : Passes
1	VRV-3 (Single Zone) VRF, Air Cooled w/ Heat Recovery Heat Pump Heating Mode: Capacity = 1 kBtu/h No minimum efficiency requirement applies Cooling Mode: Capacity = 4 kBtu/h No minimum efficiency requirement applies Fan System: VRVS - Compliance (Motor nameplate HP method) : Passes
6	VRV-4,5,6,7,8,9 (Single Zone) VRF, Air Cooled w/ Heat Recovery Heat Pump Heating Mode: Capacity = 2 kBtu/h No minimum efficiency requirement applies Cooling Mode: Capacity = 2 kBtu/h No minimum efficiency requirement applies Fan System: VRVS - Compliance (Motor nameplate HP method) : Passes
1	VRV-10 (Single Zone) VRF, Air Cooled w/ Heat Recovery Heat Pump Heating Mode: Capacity = 1 kBtu/h No minimum efficiency requirement applies Cooling Mode: Capacity = 1 kBtu/h No minimum efficiency requirement applies Fan System: VRVS - Compliance (Motor nameplate HP method) : Passes
1	VRV-11 (Single Zone) VRF, Air Cooled w/ Heat Recovery Heat Pump Heating Mode: Capacity = 3 kBtu/h No minimum efficiency requirement applies Cooling Mode: Capacity = 8 kBtu/h No minimum efficiency requirement applies Fan System: VRVS - Compliance (Motor nameplate HP method) : Passes
1	WUH-1 (Unknown) Heating: 1 each - Unit Heater, Electric, Capacity = 5 kBtu/h No minimum efficiency requirement applies Fan System: WUH - Compliance (Motor nameplate HP method) : Passes

Project Title: GEORGETOWN FIRE STATION NO. 6
 Date filename: O:\Houston1\ALL PROJECTS\Folder\2018\182001 Georgetown Fire Station No. 6\MEP\Energy Page 2 of 20
 Form\MECH COMCHECK.cck Report date: 04/25/18

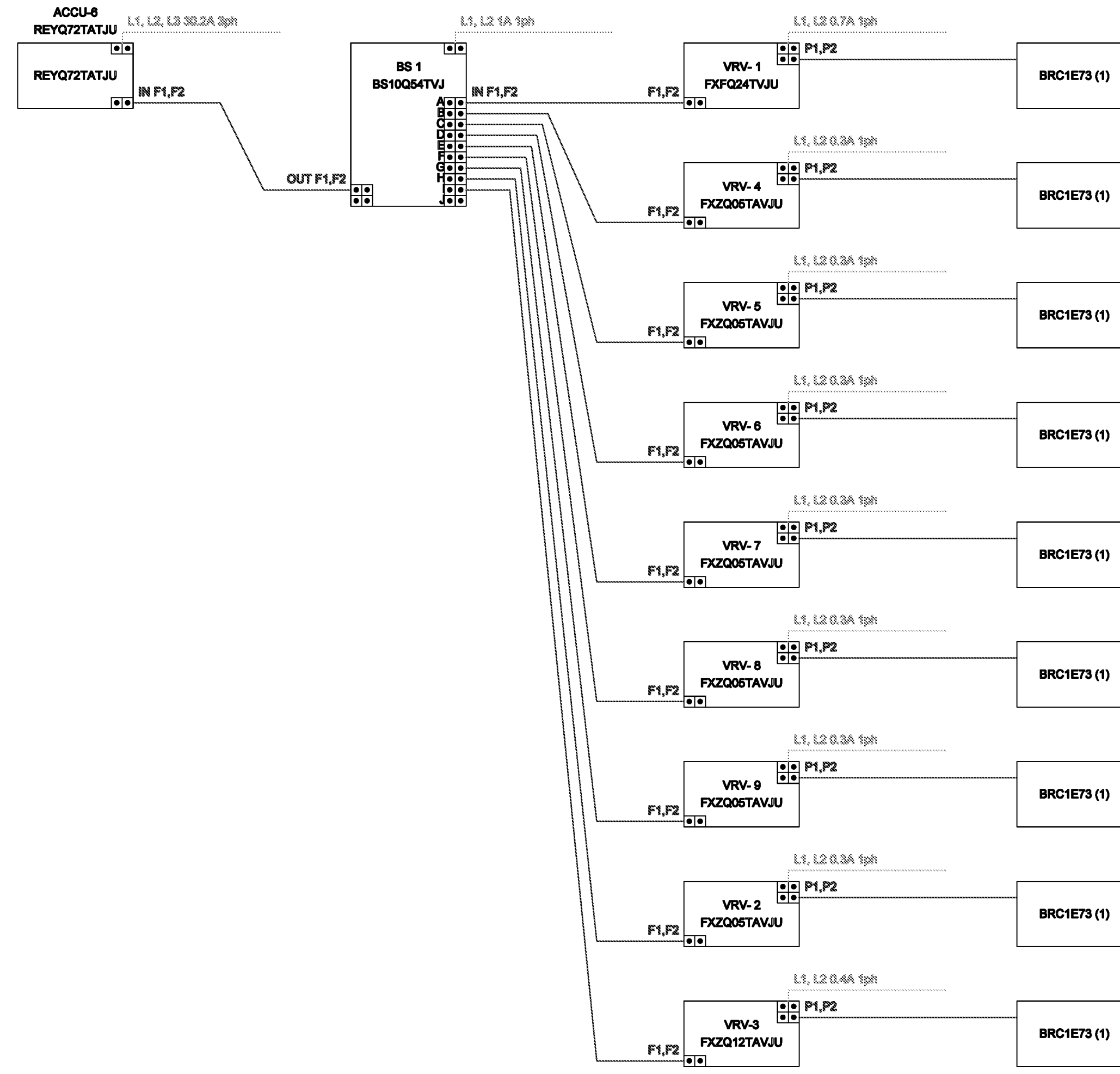
Quantity	System Type & Description
1	FAN 2 Supply, Constant Volume, 160 CFM, 0.1 motor nameplate hp, 80.0 fan efficiency grade CUH-1,2,3,4 (Unknown) Heating: 1 each - Unit Heater, Propane, Capacity = 105 kBtu/h Proposed Efficiency = 85.00% Ee, Required Efficiency = 80.00% Ee Fan System: CUHS - Compliance (Motor nameplate HP method) : Passes
1	FAN 3 Supply, Constant Volume, 1345 CFM, 0.1 motor nameplate hp, 80.0 fan efficiency grade GWH-1 Gas Storage Water Heater, Capacity: 100 gallons, Input Rating: 150 kBtu/h w/ Circulation Pump Proposed Efficiency: 88.00 % EL, Required Efficiency: 80.00 % EL

Mechanical Compliance Statement

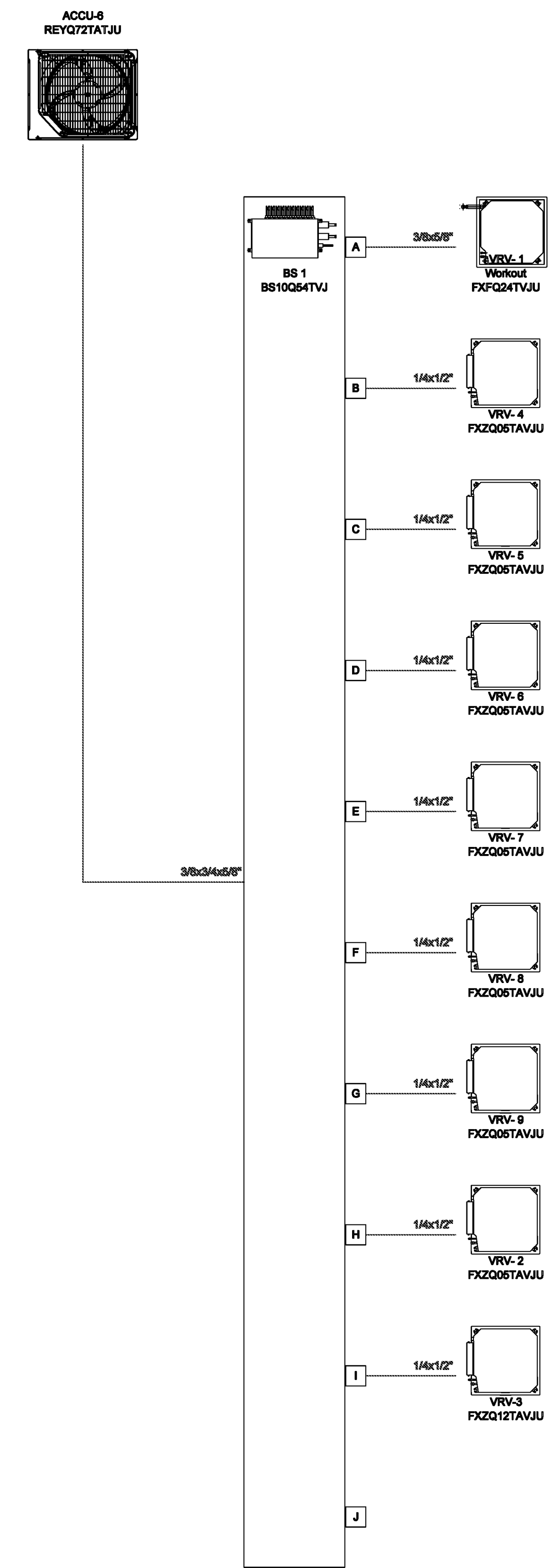
Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.0.8.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Emilee Williams - Mech Engineer
 Name - Title Signature Date 04/25/2018

Project Title: GEORGETOWN FIRE STATION NO. 6
 Date filename: O:\Houston1\ALL PROJECTS\Folder\2018\182001 Georgetown Fire Station No. 6\MEP\Energy Page 3 of 20
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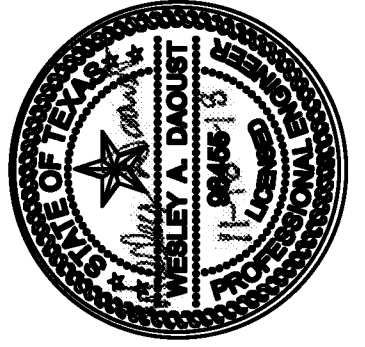


2 VRV WIRING DIAGRAM
 SCALE: NTS



1 VRV PIPING DIAGRAM
 SCALE: NTS

BROWN REYNOLDS WATFORD ARCHITECTS
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 Registration No. E-3834

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 DATE: 11/16/2018
 DRAWN BY: ENW
 CHECKED BY: WJD
 BRW PROJECT NUMBER: 217079-00

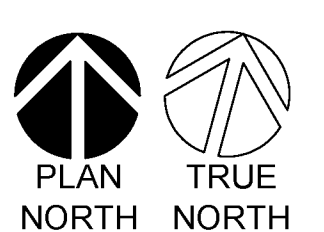
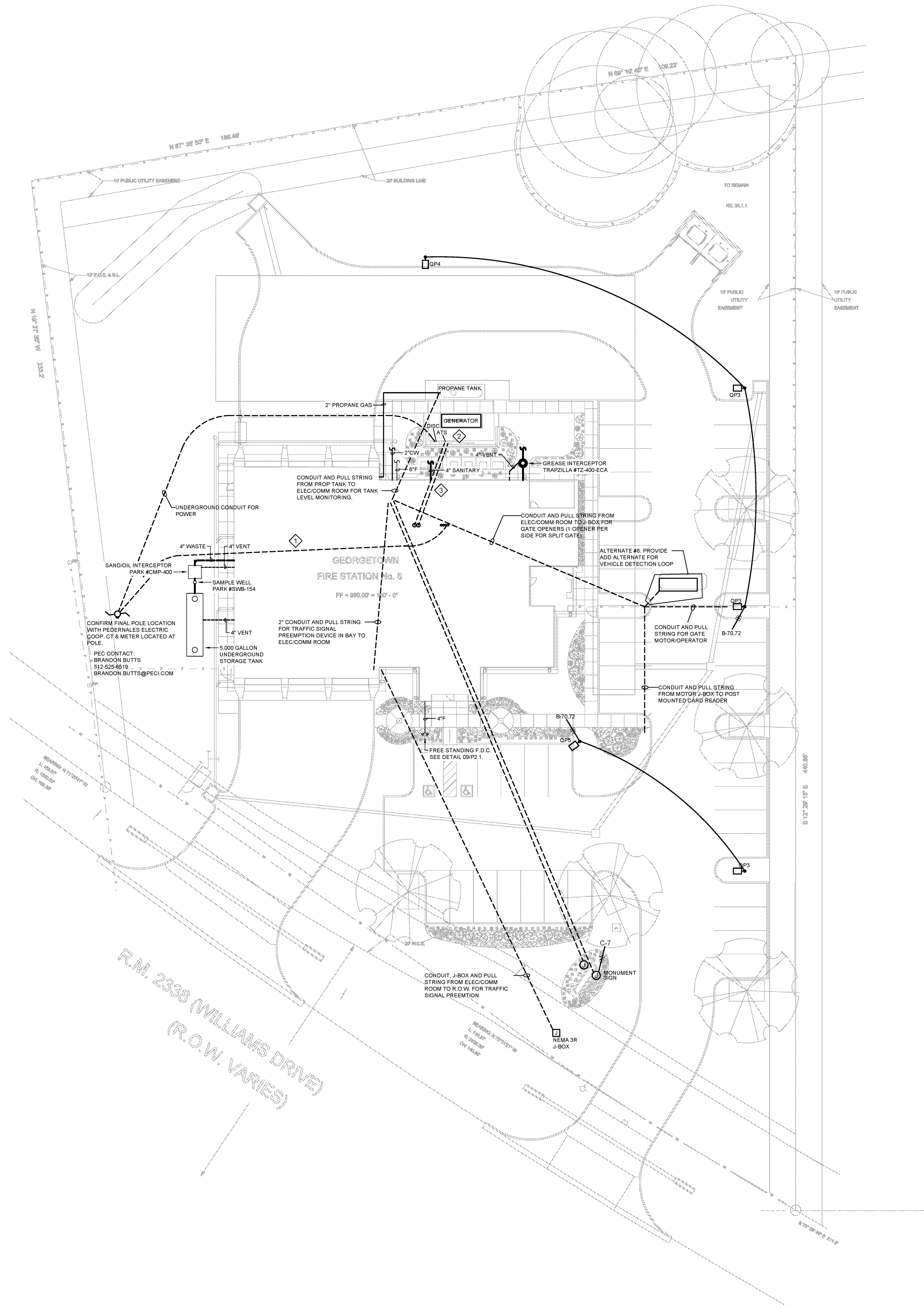
CITY OF GEORGETOWN
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M2.3
 MECHANICAL DIAGRAMS & ENERGY FORM

GENERAL SITE NOTES:

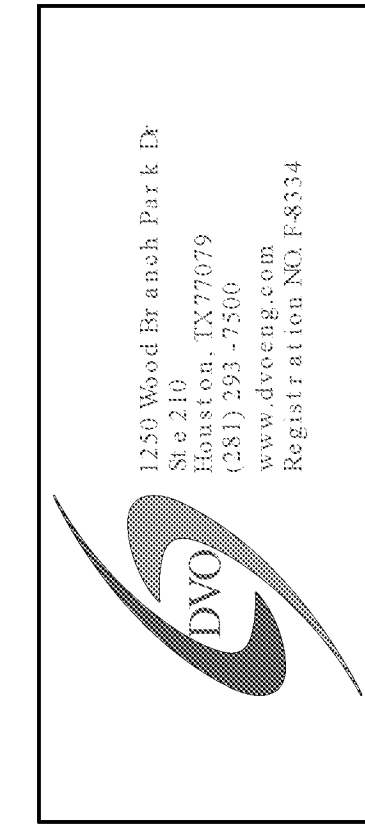
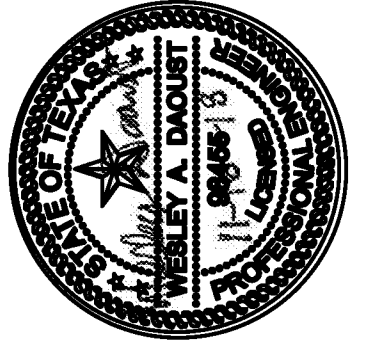
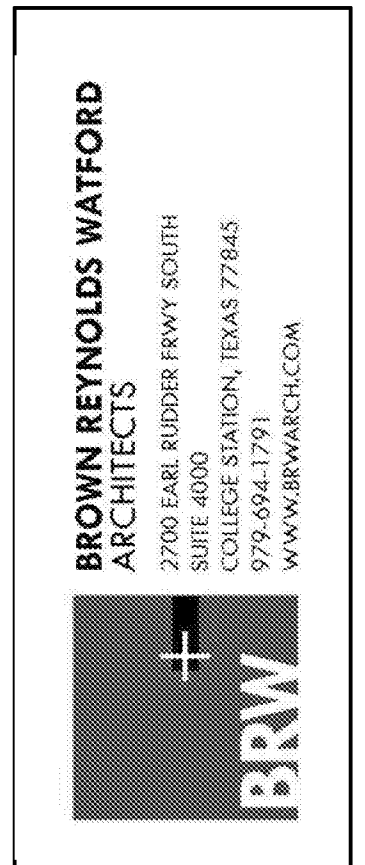
- A. COORDINATE ALL WORK OTHER TRADES.
- B. COORDINATE INSTALLATION REQUIREMENTS, EXACT LOCATIONS AND CONDUIT TRADE SIZING AND ROUTING WITH UTILITIES PRIOR TO BEGINNING ANY WORK.
- C. WIRE ALL EMERGENCY EXTERIOR EGRESS FIXTURES THROUGH BUILDING LIGHTING CONTROLS.
- D. LUMINAIRES SHALL BE FURNISHED AND INSTALLED WITH LAMPS, BALLAST(S), AND MOUNTING HARDWARE. ELECTRICAL CONTRACTOR SHALL SUBMIT FIXTURE CUT SHEETS TO CLIENT AND ARCHITECT FOR THEIR FINAL APPROVAL PRIOR TO ORDERING OF THE LUMINAIRES.
- E. ELECTRICAL CONTRACTOR SHALL COORDINATE LIGHTING FIXTURE QUANTITIES, MOUNTING REQUIREMENTS, FINISHES, FIXTURE AVAILABILITY AND LEAD TIME FOR DELIVERY TO SITE.
- F. FLUORESCENT AND LED LUMINAIRES THAT CONTAIN BALLAST(S) AND/OR LED DRIVERS THAT CAN BE SERVICED IN PLACE SHALL HAVE A DISCONNECTING MEANS PER NEC ARTICLE 410.130(G) REQUIREMENTS. DISCONNECTING MEANS IS NOT REQUIRED FOR EMERGENCY ILLUMINATION REQUIRED IN 700.16.
- G. CONTRACTOR SHALL COORDINATE EXACT DEVICE AND EQUIPMENT LOCATIONS WITH CLIENT ARCHITECT, EQUIPMENT SUBCONTRACTOR OR UTILITY CONSULTANT PRIOR TO BEGINNING ANY WORK.
- H. RECEPTACLE OUTLETS AND SWITCHES SHALL BE LABELED WITH DESIGNATED PANEL AND CIRCUIT NUMBER ON THE COVER PLATE.
- I. ALL 125-VOLT, SINGLE PHASE, 15- AND 20-AMPERE RECEPTACLES INSTALLED IN RESTROOMS, KITCHEN/FOOD PREP AREAS, OUTDOOR, WITHIN SIX FEET OF THE OUTSIDE EDGE OF A SINK, OR IN GARAGES, SERVICE BAYS, AND SIMILAR AREAS WHERE ELECTRICAL HAND TOOLS OR PORTABLE LIGHTING EQUIPMENT ARE TO BE USED SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER (GFCI) PROTECTION FOR PERSONNEL PER NATIONAL ELECTRICAL CODE (NEC) ARTICLE 210.8. GFCI DEVICE SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION.
- J. ELECTRICAL CONTRACTOR SHALL MAINTAIN DEDICATED ELECTRICAL SPACE IN FRONT AND ABOVE ALL ELECTRICAL EQUIPMENT REQUIRING SERVICING WHILE ENERGIZED. THIS INCLUDES CONTROL PANELS AND ELECTRICAL DISCONNECTS FOR HVAC EQUIPMENT ON LOCATED ON ROOFTOPS AND ABOVE OR BELOW CEILING. PENETRATIONS SUCH AS ROOF JACKS FOR ELECTRICAL POWER, LOW VOLTAGE CONTROL POWER, REFRIGERANT LINES, VENT PIPES, ETC. AND INCLUDING GAS LINES, DUCTWORK, ROOF DRAINS, SCREENING WALLS AND OTHER EQUIPMENT OF ANY TYPE, ARE NOT TO INTRUDE INTO DEDICATED ELECTRICAL SPACE. MINIMUM SPACE IN FRONT OF ELECTRIC EQUIPMENT SHALL BE THE WIDTH OF THE EQUIPMENT OR 30 INCHES, WHICHEVER IS GREATER, 36 INCHES OUT FROM ENCLOSURE FRONT AT THE HEIGHT OF 6.5 FEET.
- K. ELECTRICAL UTILITY SERVICE SECONDARY CONDUCTORS SHALL BE BURIED AT A MINIMUM DEPTH OF 4'. COORDINATE ADDITIONAL INSTALLATION REQUIREMENTS AND ROUTING WITH ELECTRICAL UTILITY PRIOR TO BEGINNING ANY WORK.
- L. FOR PAD MOUNTED TRANSFORMERS ELECTRICAL CONTRACTOR SHALL PROVIDE (2) 6" CONDUITS, OR ELECTRICAL UTILITY STANDARD SIZING BURIED AT A MINIMUM DEPTH OF 4' AND ENCASED IN RED DYED CONCRETE. COORDINATE ADDITIONAL INSTALLATION REQUIREMENTS AND ROUTING WITH ELECTRICAL UTILITY PRIOR TO BEGINNING ANY WORK.
- M. PVC CONDUITS INSTALLED UNDERGROUND SHALL BE BURIED IN ACCORDANCE WITH NEC ARTICLES 352.10(G), 300.5 AND TABLE 300.5 REQUIREMENTS FOR PARKING LOTS. MINIMUM DEPTH OF 24" TO THE TOP OF THE CONDUIT.
- N. IF RACEWAYS ARE INSTALLED EXPOSED TO DIRECT SUNLIGHT ON OR ABOVE ROOFTOPS CORRECTIONS NEED TO BE PROVIDED FOR CONDUCTOR SIZES BASED ON AMBIENT TEMPERATURE CORRECTION FACTORS. TEMPERATURE CORRECTION FACTORS SHOWN IN NEC TABLE 310.15(B)(3)(C) SHALL BE ADDED TO THE OUTDOOR TEMPERATURE TO DETERMINE THE APPLICABLE AMBIENT TEMPERATURE FOR APPLICATION OF THE CORRECTION FACTORS IN TABLE 310.15(B)(2)(A) OR TABLE 310.15(B)(2)(B).



1 MEP SITE PLAN
1" = 20'-0"

KEYED NOTES:

- 1. ELECTRICAL CONTRACTOR TO PROVIDE (4) 2" CONDUITS WITH PULL STRINGS FROM ELECTRIC ROOM TO NEW POWER POLE. EXACT LOCATION OF NEW POWER POLE TO BE COORDINATED WITH UTILITY COMPANY PRIOR TO WORK.
- 2. ATS, MAIN DISCONNECT AND ALL GEAR TO BE MOUNTED ON UNISTRUT ON THE GENERATOR SCREEN WALL.
- 3. ELECTRICAL CONTRACTOR TO PROVIDE CONDUITS WITH PULL STRINGS FROM ELECTRIC ROOM TO ATS.



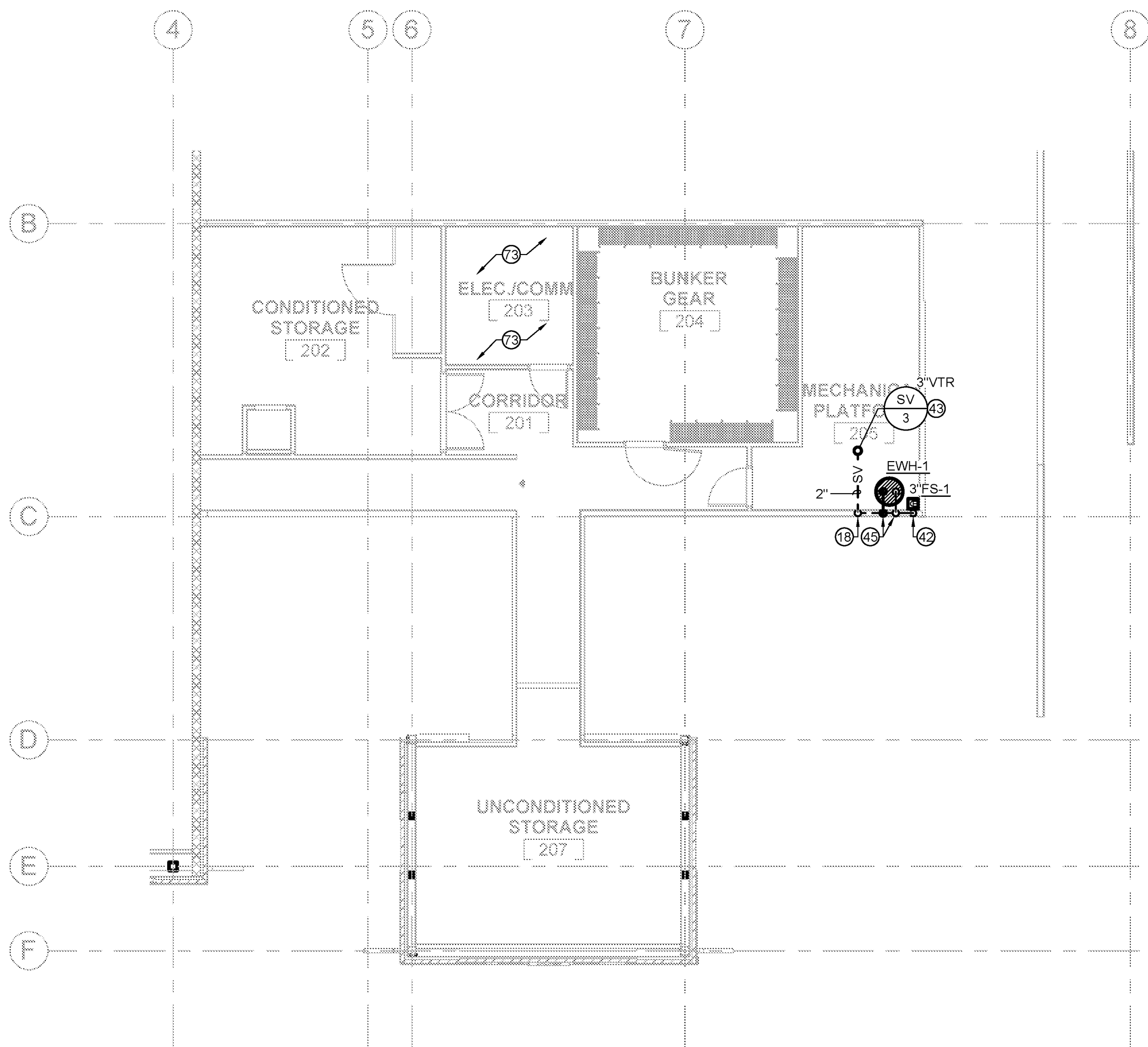
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DATE: 11/16/2018
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CHECKED BY: JF
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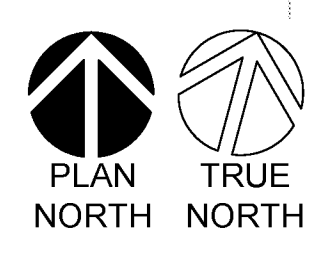


MEP SITE PLAN



3 SECOND FLOOR PLAN-PLUMBING

1/8" = 1'-0"

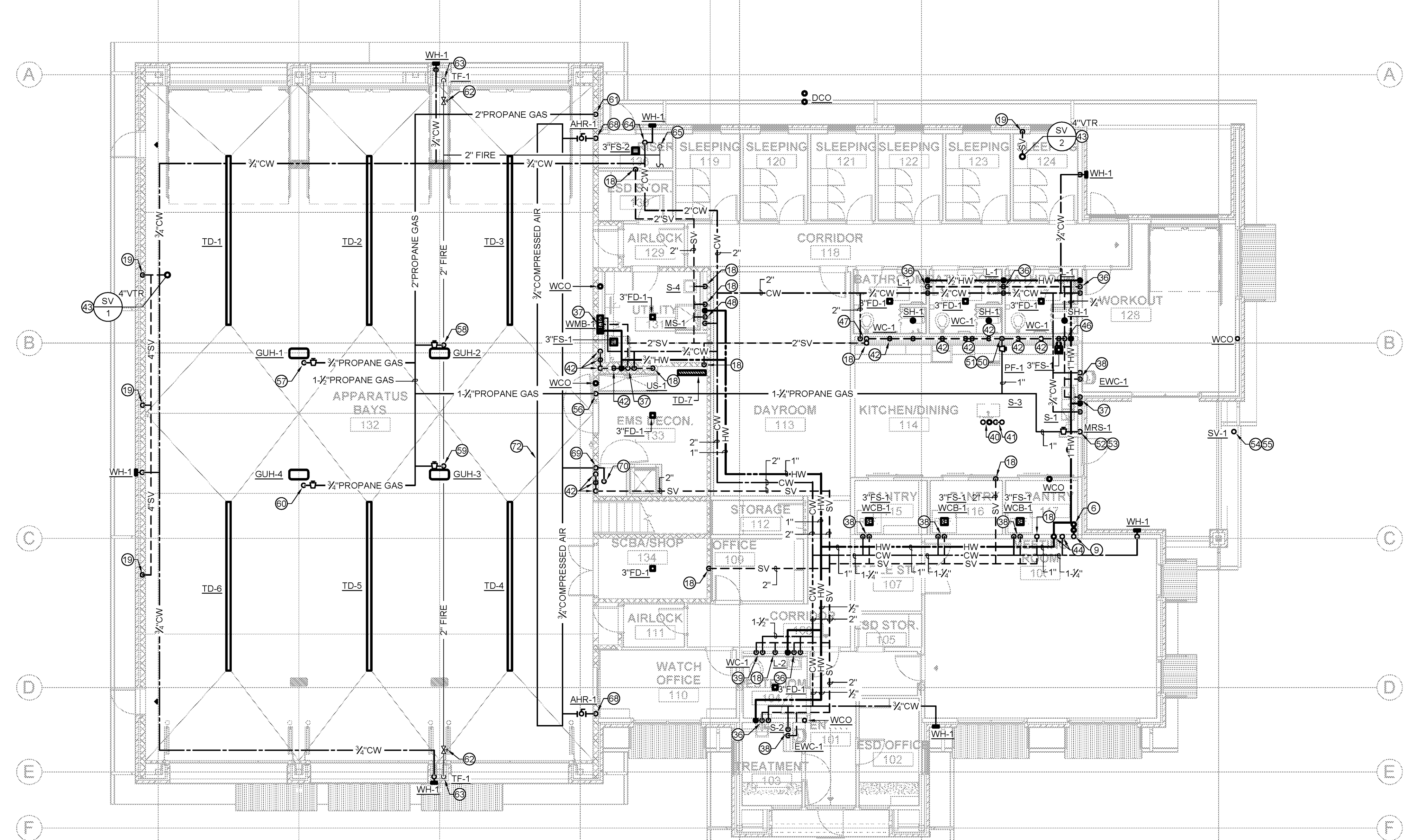


GENERAL PLUMBING NOTES:

- A. REFER TO SHEET P0.0 FOR ADDITIONAL PLUMBING GENERAL NOTES.
- B. REFER TO SHEET P0.0 FOR ADDITIONAL FIRE PROTECTION GENERAL NOTES.
- C. VERIFY ALL DIMENSIONS AT JOBSITE.
- D. PLUMBING CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL CODES AND AUTHORITIES HAVING JURISDICTION, AND MAKE FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT.
- E. INSULATE ALL DOMESTIC WATER PIPING SUBJECTED TO FREEZING TEMPERATURE.
- F. INSULATE HOT WATER LINES WITH 1" MOLDED FIBERGLASS INSULATION.
- G. DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL DOCUMENTS FOR EXACT LOCATION OF FIXTURES, EQUIPMENT.
- H. PLUMBING CONTRACTOR SHALL COORDINATE ALL PIPING AND EQUIPMENT WITH OTHER TRADES PRIOR TO INSTALLATION OF ANY PIPING OR EQUIPMENT.
- I. VENT PIPING TO BE 2" UNLESS OTHERWISE NOTED.
- J. VENT PENETRATIONS THROUGH ROOF TO HAVE CLEARANCE OF 10 FEET, MINIMUM, FROM ANY INTAKE FOR FRESH AIR.
- K. COORDINATE ALL WORK WITH OWNER OR REPRESENTATIVES.
- L. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL GAS PIPING AND MAKE ALL FINAL CONNECTIONS. GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL PIPE AND BANDED MALLEABLE IRON FITTINGS.
- M. ALL UNDERGROUND WATER LINES SHALL BE TYPE "K" COPPER TUBING WITH 1/2" ARMAFLEX INSULATION.
- N. REFERENCE ARCHITECTURAL DRAWINGS FOR DIMENSIONS AFFECTING THIS WORK.
- O. ALL WORK SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT.

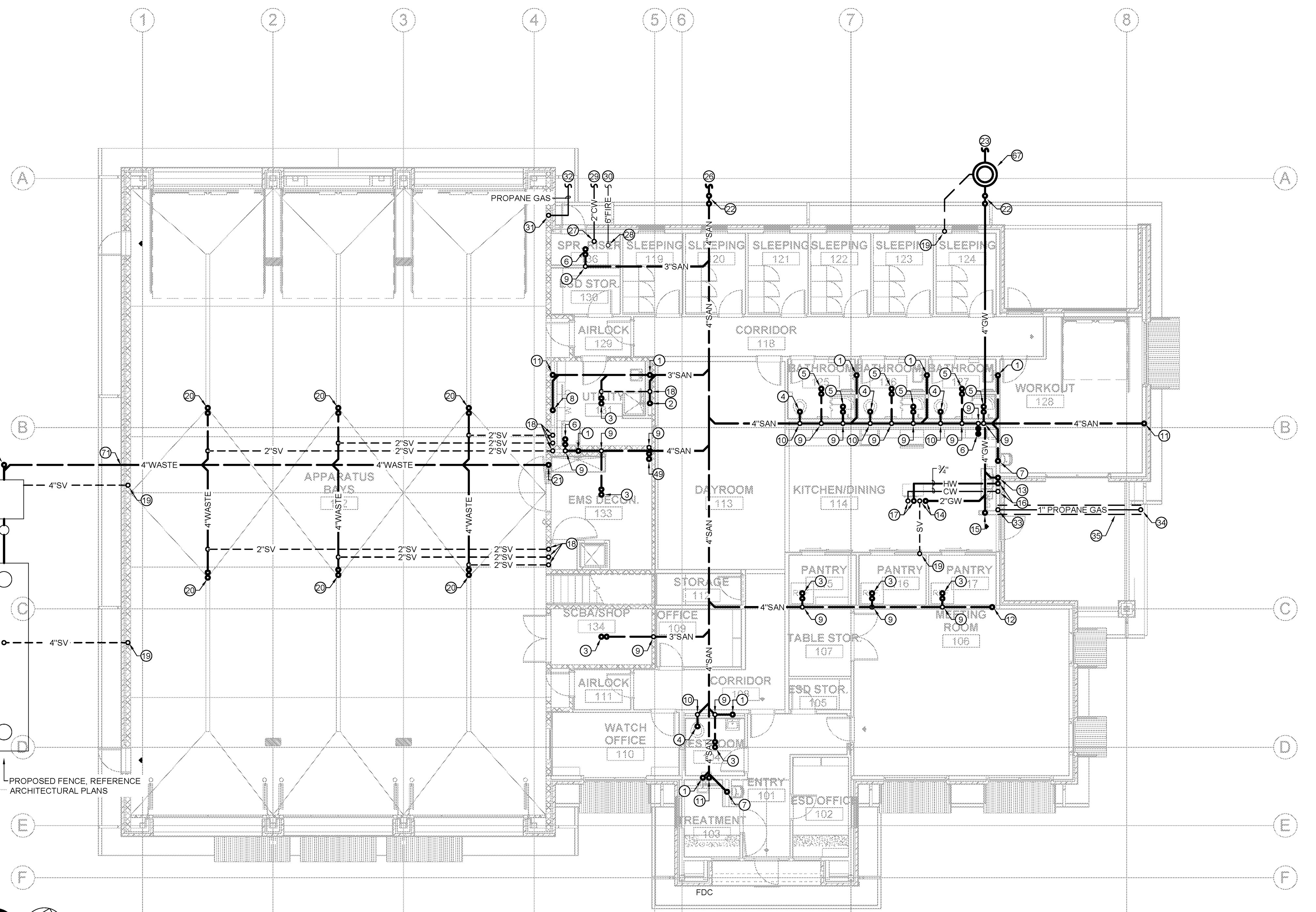
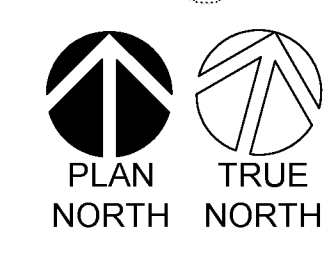
KEYED NOTES:

1. 2" SANITARY FROM LAVATORY / SINK ABOVE.
2. 3" SANITARY FROM MOP SINK ABOVE.
3. 3" SANITARY FROM FLOOR DRAIN ABOVE.
4. 4" SANITARY FROM WATER CLOSET ABOVE.
5. 3" SANITARY FROM SHOWER DRAIN ABOVE.
6. 3" SANITARY FROM FLOOR SINK ABOVE.
7. 2" SANITARY FROM DRINKING FOUNTAIN ABOVE.
8. 3" SANITARY FROM WASHING MACHINE ABOVE.
9. 3" SANITARY DOWN, 2" VENT UP.
10. 4" SANITARY DOWN, 2" VENT UP.
11. 4" SANITARY FROM CLEANOUT ABOVE.
12. 3" SANITARY FROM ABOVE.
13. 2" GREASE WASTE FROM SINK ABOVE.
14. 2" GREASE WASTE FROM SINK ABOVE, 2" VENT FROM ABOVE.
15. 4" GREASE WASTE FROM CLEANOUT ABOVE.
16. 3/4" CW & HW FROM ABOVE.
17. 3/4" CW & HW UP.
18. 2" VENT UP.
19. 4" VENT UP.
20. 4" WASTE FROM TRENCH DRAIN ABOVE.
21. 4" WASTE FROM CLEANOUT ABOVE.
22. 4" SANITARY FROM DOUBLE CLEANOUT ABOVE.
23. 4" GREASE WASTE, F.L.=5'-0" B.F.F. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
24. PROPOSED SAND/OIL INTERCEPTOR, PARK #CMP-400, SEE DETAIL 03/P2.2.
25. PROPOSED SAMPLE WELL, PARK #SWB-154, SEE DETAIL 04/P2.2.
26. 4" SANITARY, F.L.=5'-0" B.F.F. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
27. 2" CW UP, SEE DETAIL 01/P2.1.
28. 6" FIRE UP, SEE DETAIL 02/P2.1.
29. 2" DOMESTIC COLD WATER, REFER TO CIVIL DRAWINGS FOR CONTINUATION.
30. 6" FIRE LINE, REFER TO CIVIL DRAWINGS FOR CONTINUATION.
31. 2" PROPANE GAS UP.
32. 2" PROPANE GAS, REFER TO SHEET EP.1.0 FOR CONTINUATION.
33. 1" PROPANE GAS FROM ABOVE.
34. 1" PROPANE GAS UP TO SERVE PATIO GRILLE (200MBH).
35. 1" PROPANE GAS ROUTED BELOW SLAB IN 4" SLEEVE TO GAS GRILLE.
36. 3/4" CW & HW DOWN, 2" VENT UP.
37. 3/4" CW & HW DOWN, 2" VENT UP.
38. 3/4" CW DOWN, 2" VENT UP.
39. 1 1/2" CW DOWN, 2" VENT UP.
40. 3/4" CW & HW FROM BELOW.
41. 2" VENT UP, 2" ISLAND VENT DOWN.
42. 2" VENT FROM BELOW.
43. 4" VENT UP TO VTR.
44. 1 1/2" CW UP, 1" HW FROM ABOVE.
45. 1 1/2" CW FROM BELOW, 1" HW DOWN.
46. 3/4" HW DOWN AND EXTEND THRU CHASE, 2" VENT UP.
47. 2" CW DOWN AND EXTEND THRU CHASE, 2" VENT UP.
48. 3/4" CW & HW DOWN AND EXTEND THRU CHASE, 2" VENT UP.
49. 4" SANITARY FROM TRENCH DRAIN ABOVE.
50. 1" PROPANE GAS DOWN TO SERVE RANGE, (167 MBH) MANUAL RESET SWITCH AND SOLENOID VALVE FOR KITCHEN RANGE PROVIDED BY ELECTRICAL CONTRACTOR. LOCATE SOLENOID VALVE IN WALL CABINET NEAR RANGE COORDINATE LOC. WITH ARCH. PLUMBING AND ELECTRICAL CONTRACTORS TO COORDINATE FOR INSTALLATION REQUIREMENTS. PROVIDE A COMPLETE AND FUNCTIONAL SYSTEM.
51. ALARM ACTUATED SHUT OFF VALVE REST SWITCH "M.R.S." -6" ABOVE COUNTERTOP.
52. 1" PROPANE GAS DOWN.
53. MANUAL RESET SWITCH PROVIDED BY ELECTRICAL CONTRACTOR FOR GAS GRILLE. PROVIDE A COMPLETE AND FUNCTIONAL SYSTEM. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
54. 1" PROPANE GAS FROM BELOW TO SERVE PATIO GRILLE (200 MBH).
55. SOLENOID VALVE PROVIDED BY ELECTRICAL CONTRACTOR FOR GAS GRILLE TO BE INSTALLED IN A RECESSED CABINET WITH FLUSH DOOR. DOOR TO OPEN TO PATIO/GRILLE SIDE. PLUMBING CONTRACTOR SHALL PROVIDE & INSTALL RECESSED CABINET FOR SOLENOID VALVE. PLUMBING AND ELECTRICAL CONTRACTORS TO COORDINATE FOR INSTALLATION REQUIREMENTS. PROVIDE A COMPLETE AND FUNCTIONAL SYSTEM.
56. 1 1/2" PROPANE GAS DOWN.
57. 1" PROPANE GAS TO SERVE GUH-1 (100 MBH).
58. 1" PROPANE GAS TO SERVE GUH-2 (100 MBH).
59. 1" PROPANE GAS TO SERVE GUH-3 (100 MBH).
60. 1" PROPANE GAS TO SERVE GUH-4 (100 MBH).
61. 2" PROPANE GAS FROM BELOW.
62. 2" VALVED CONNECTION FOR FIRE TRUCK FILL COORDINATE EXACT REQUIREMENTS WITH FIRE DEPARTMENT, POTTER ROEMER #4055-B, #4625.
63. 2" FIRE LINE DOWN.
64. 2" CW FROM BELOW.
65. 6" FIRE LINE FROM BELOW.
66. 5,000 GALLON UNDERGROUND STORAGE TANK - HIGHLAND TANK. HYDRO WATER STORAGE TANK - OR EQUAL, 72" DIA. DOUBLE WALL WITH INNER LINER AND EXTERNAL POLYURETHANE COATING, 24" LONG WITH LEVEL FLOATS AND MONITORING PORTS. REFER TO CUT SHEET 02/P2.2 FOR REFERENCE. PROVIDE WITH ALARM & CONTROL PANEL FOR MONITORING AND LEVEL SENSING. ALARM TO PROVIDE AN AUDIBLE ALARM FOR HIGH LEVEL AND/OR LEAKS. PROVIDE TANK WITH GRADE LEVEL MAINWAYS THAT ARE FIELD ADJUSTABLE WITH EXTENSIONS AS REQUIRED FOR BURIAL DEPTH. PROVIDE WITH INSTALLATION HOLD-DOWN STRAPS AND CONCRETE DEADEN ANCHORS AS REQUIRED BEFORE AND DURING BURYING PROCESS. PROVIDE WITH LEAK AND LEVEL SENSORS.
67. PROPOSED GREASE INTERCEPTOR, TRAPZILLA #TZ-400-ECA, REFER TO CUT SHEETS 01/P2.2 FOR REFERENCE.
68. 3/4" COMPRESSED AIR LINE DOWN TO SERVE AHR-1, AIR REEL MOUNTED ON WALL 14'-0" A.F.F.
69. 3/4" COMPRESSED AIR LINE UP TO CEILING FROM AIR COMPRESSOR.
70. 3/4" COMPRESSED AIR LINE FROM AIR COMPRESSOR, AIR COMPRESSOR TO BE PROVIDED AND INSTALLED BY CONTRACTOR, COMPRESSOR EQUAL TO HUSKY #6201H, 3.7HP, 60 GALLON AIR COMPRESSOR (240V 1-PHASE).
71. 4" WASTE, F.L.=5'-0" B.F.F.
72. COMPRESSED AIR LINE MOUNTED ON CEILING AS HIGH AS POSSIBLE.
73. DO NOT ROUTE ANY DOMESTIC/FIRE SUPPLY LINES OR SANITARY LINES ABOVE ELEC./COMM. ROOM 203.



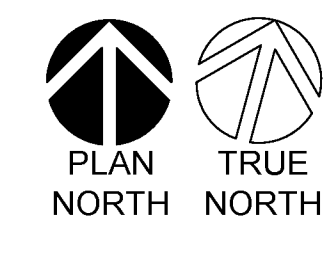
2 FIRST FLOOR PLAN-PLUMBING

1/8" = 1'-0"

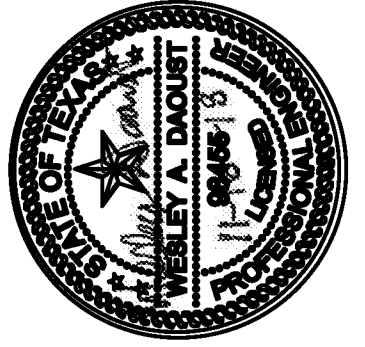


1 UNDER FLOOR PLAN-PLUMBING

1/8" = 1'-0"



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12548 State of Texas, No. 12548, DVO
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 12548 State of Texas, No. 12548, DVO

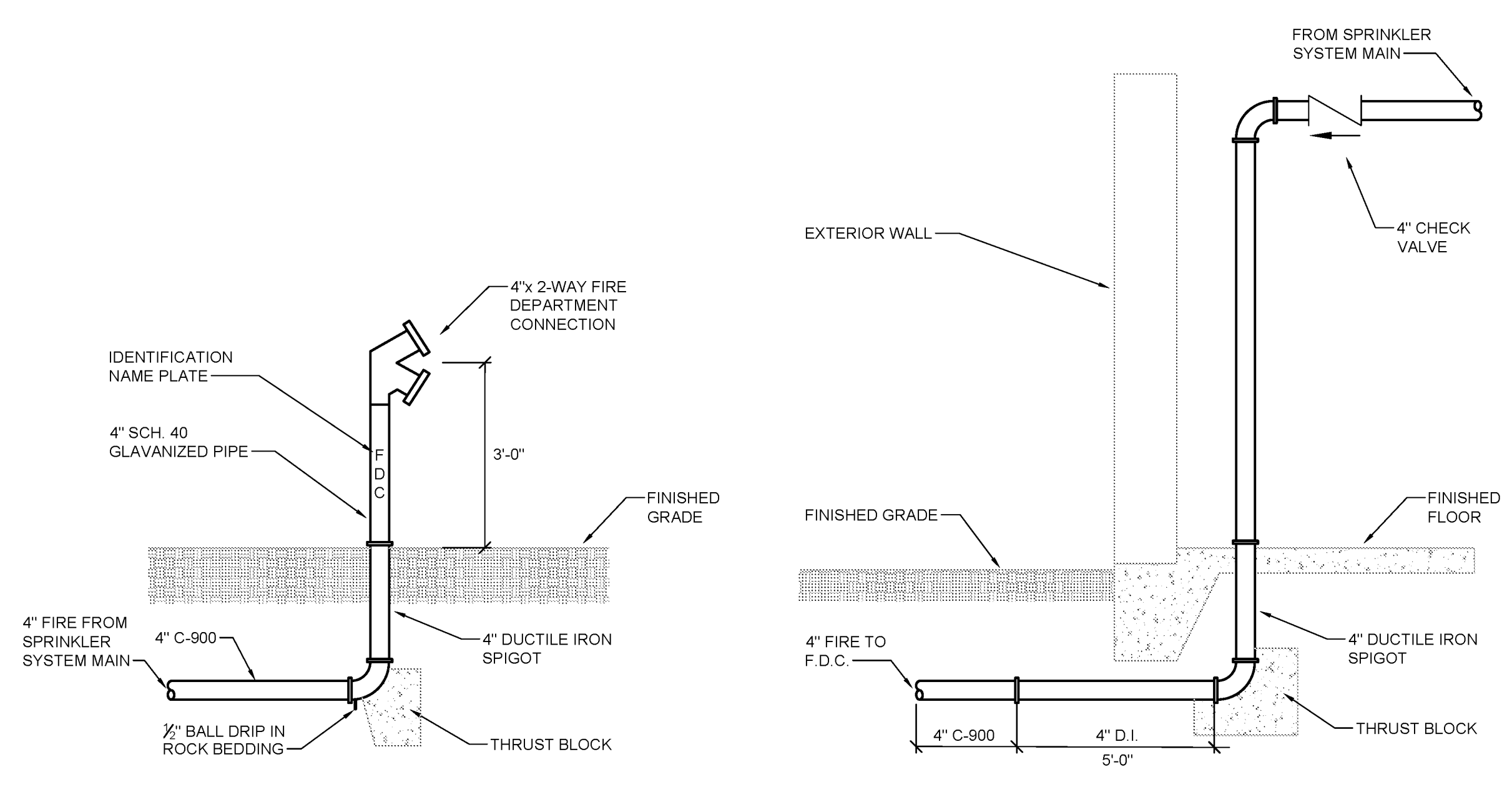
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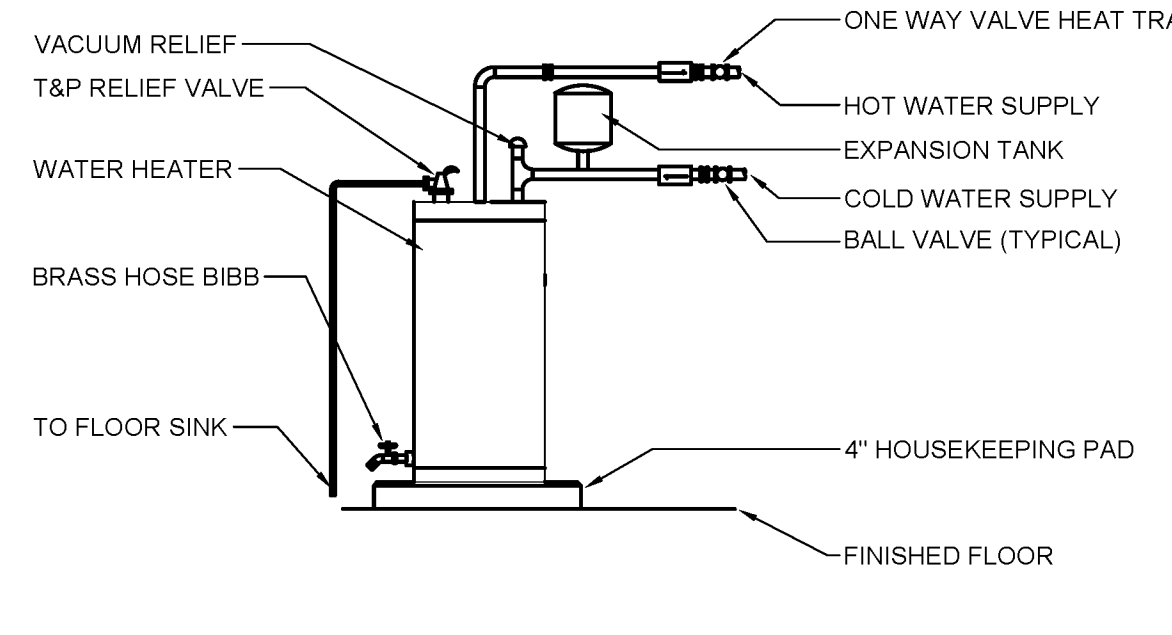
P1.1

PLUMBING FLOOR PLANS

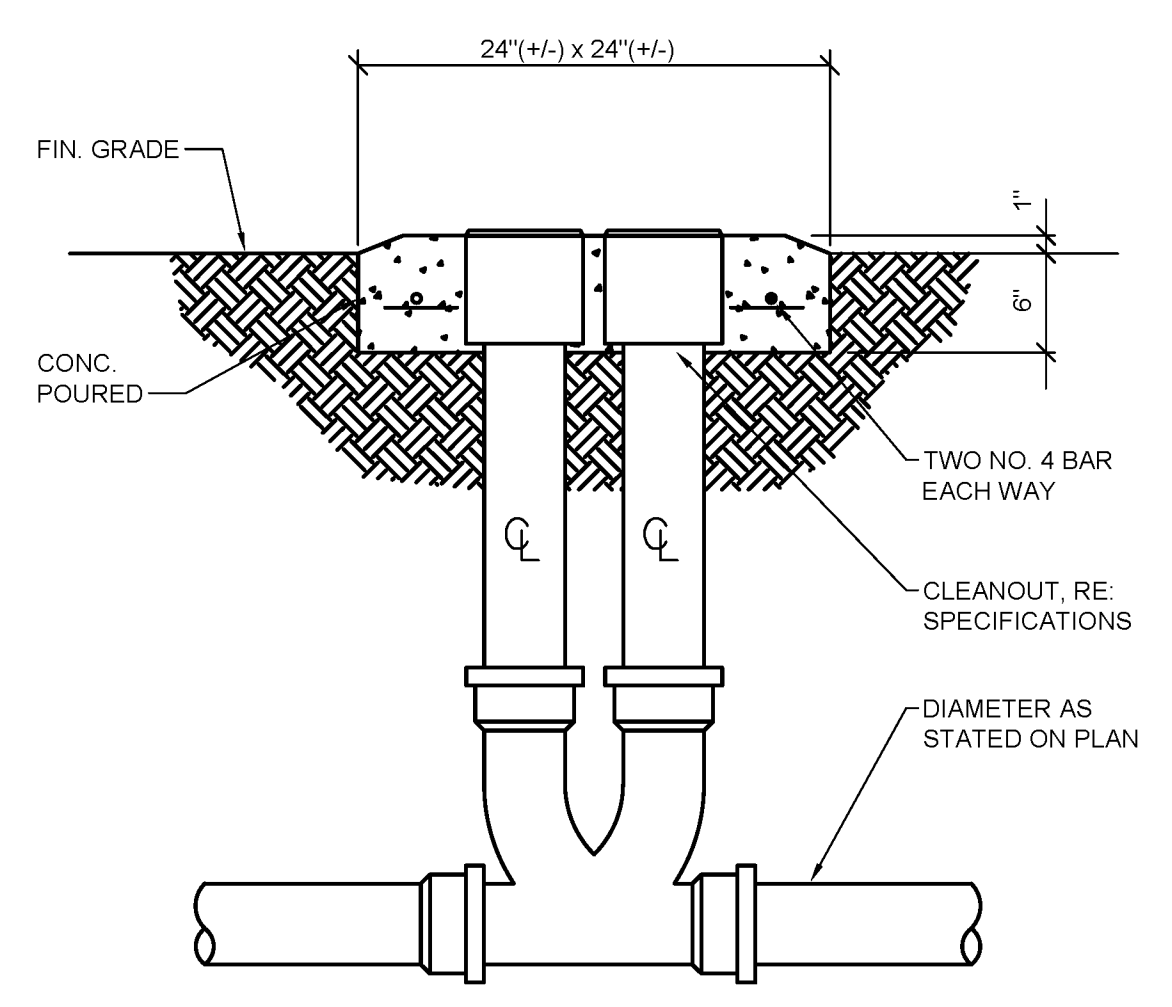


09 FREE STANDING F.D.C. DETAIL
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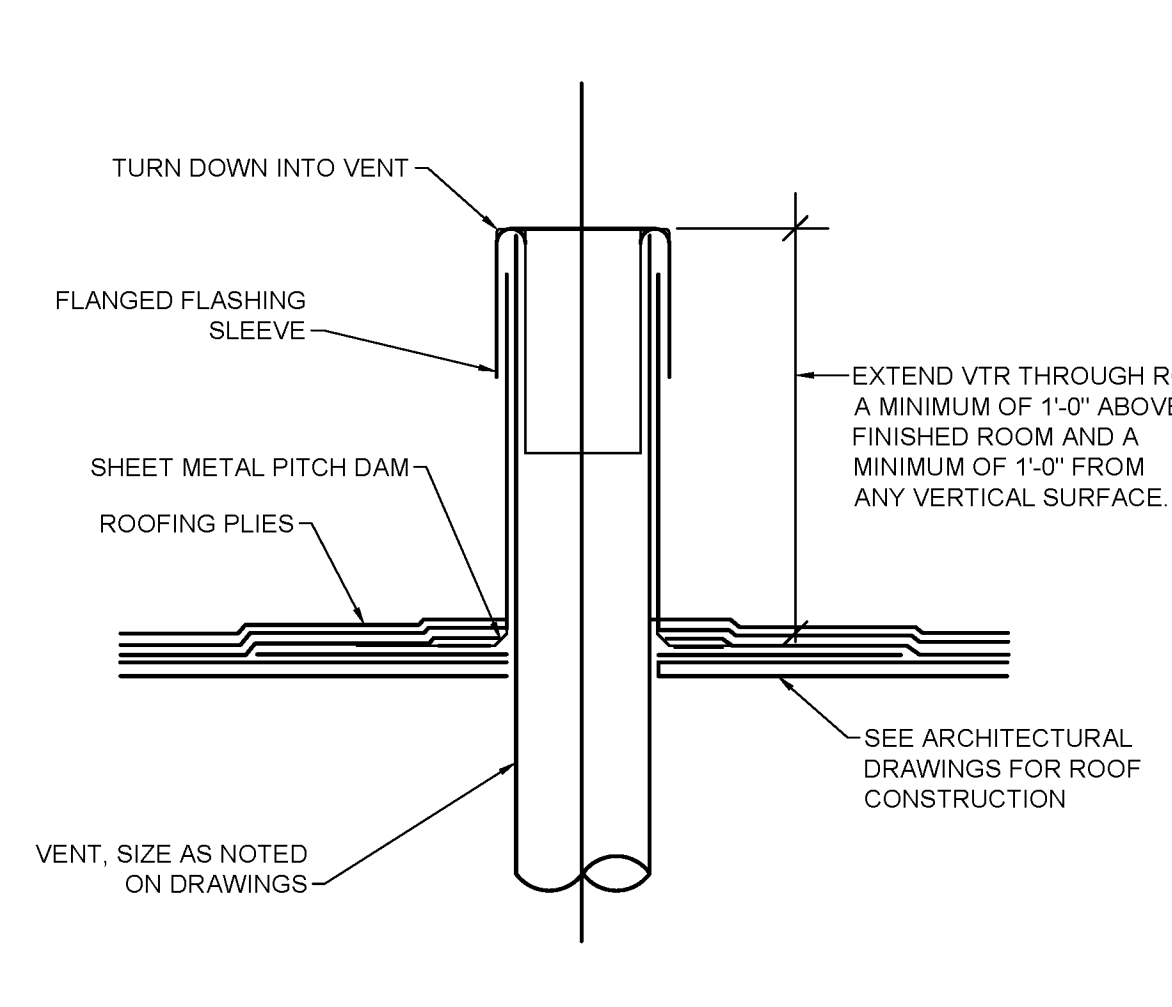
08 FIRE PIPING DETAIL
SCALE: NTS



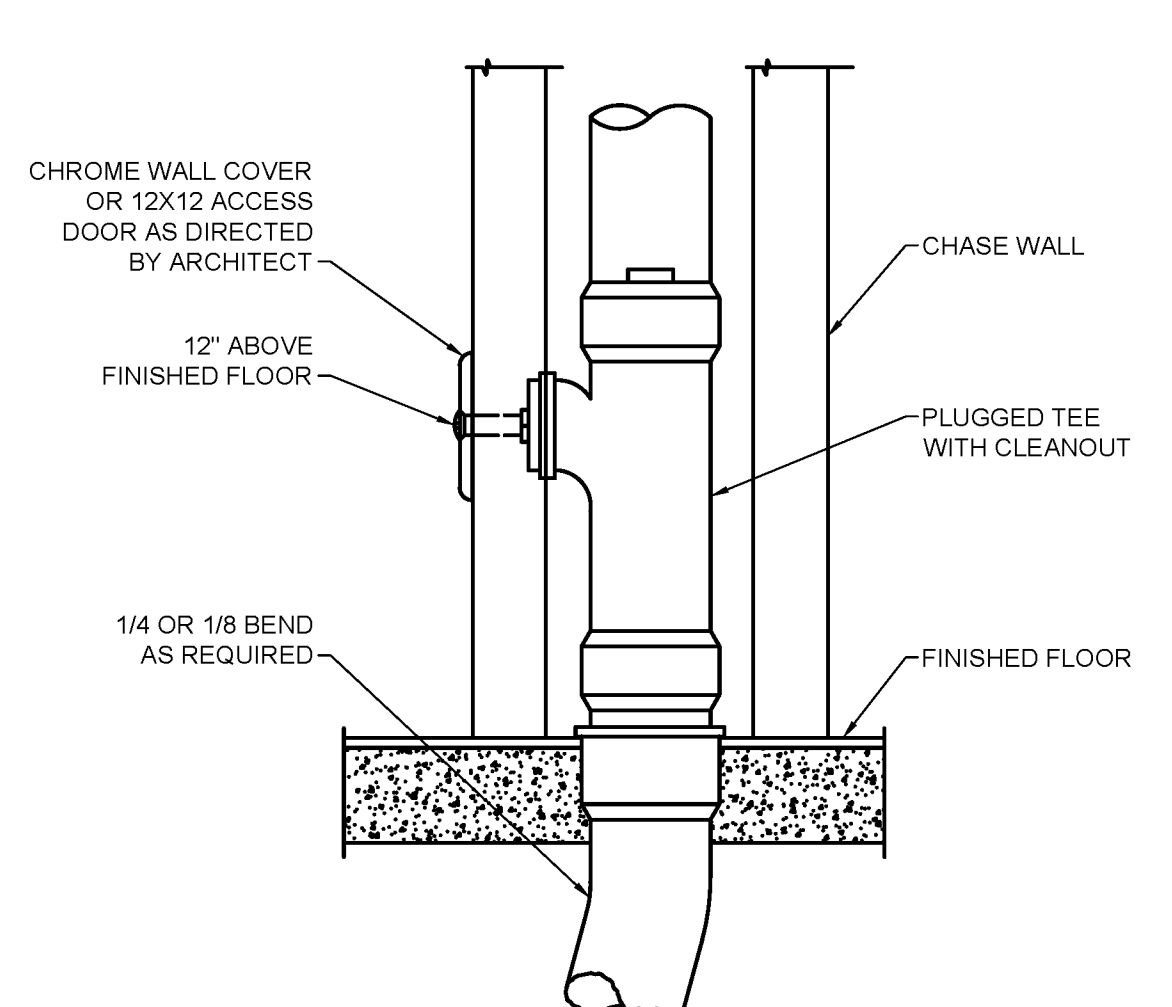
07 ELECTRIC WATER HEATER DETAIL
SCALE: NTS



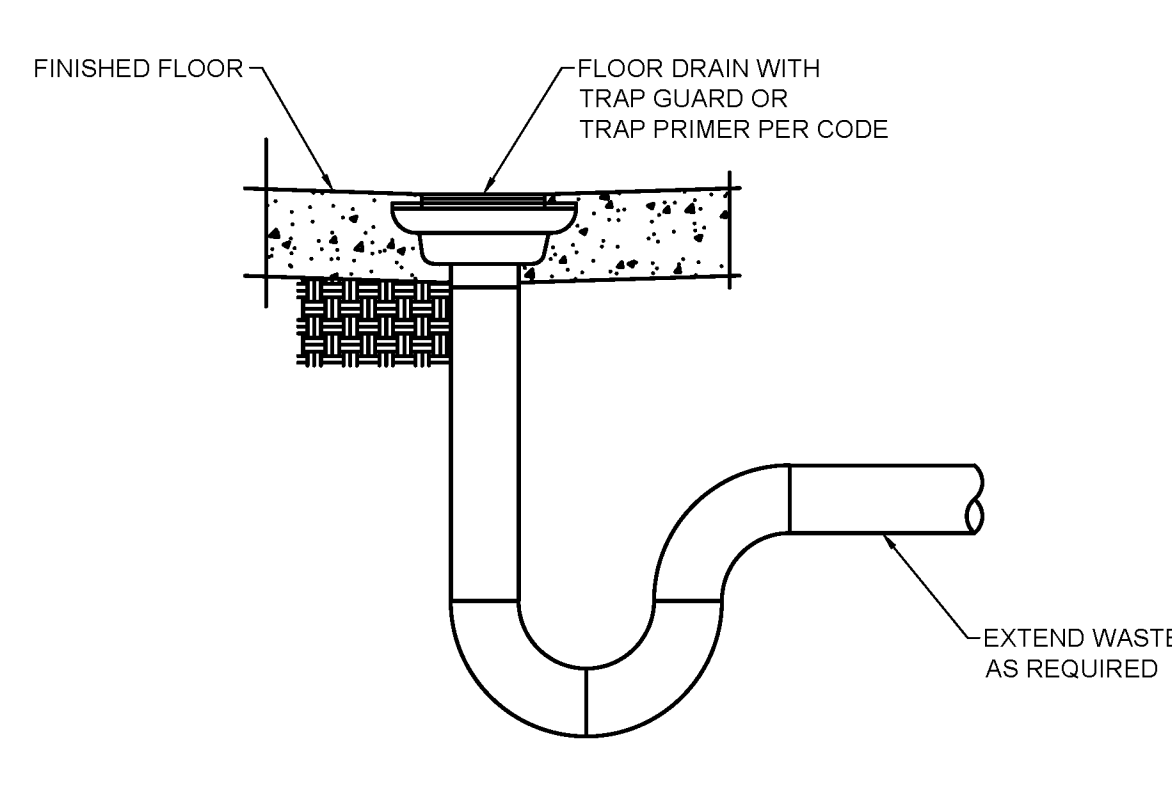
06 TWO WAY CLEANOUT DETAIL
SCALE: NTS



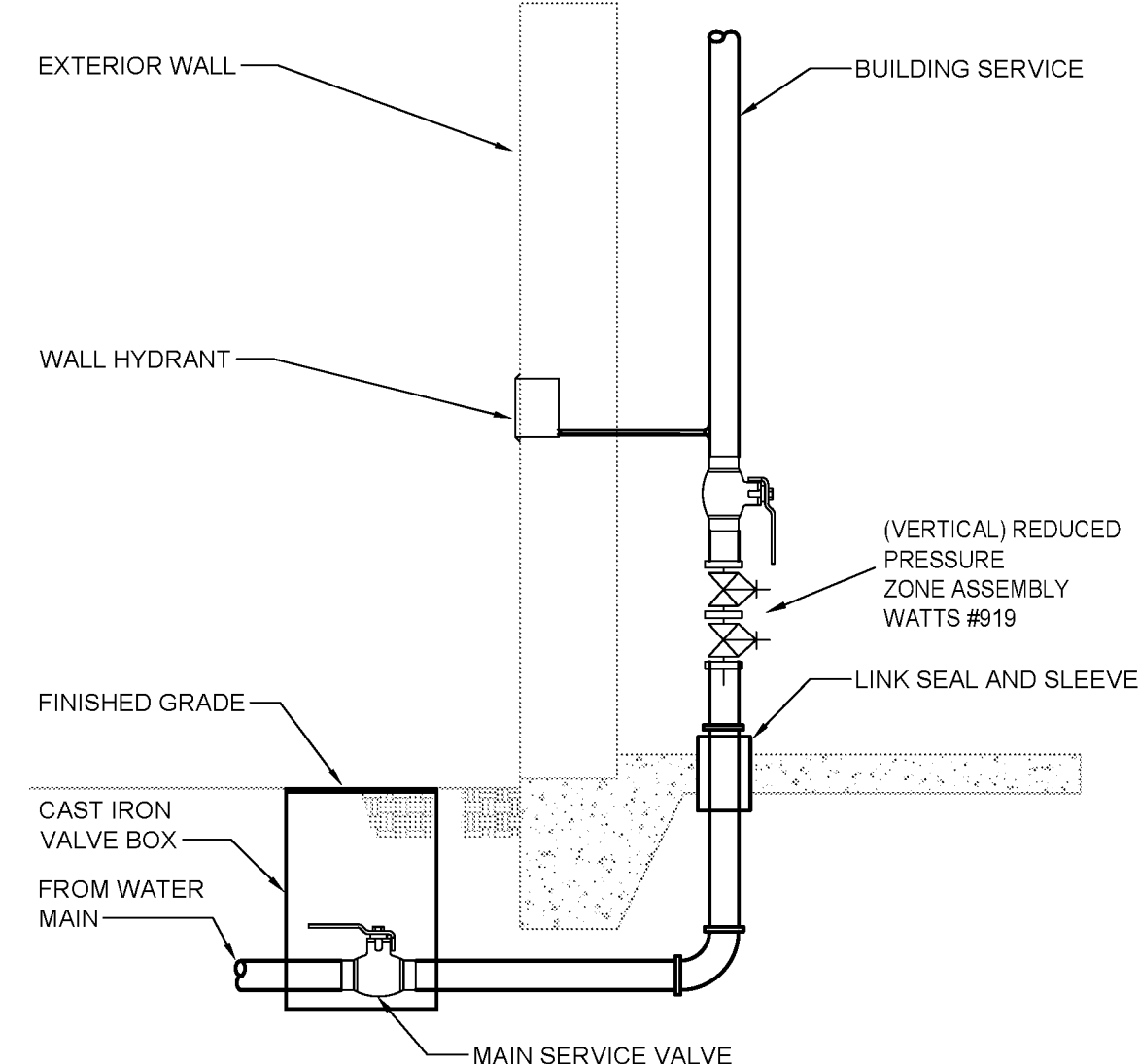
05 VENT THRU ROOF DETAIL
SCALE: NTS



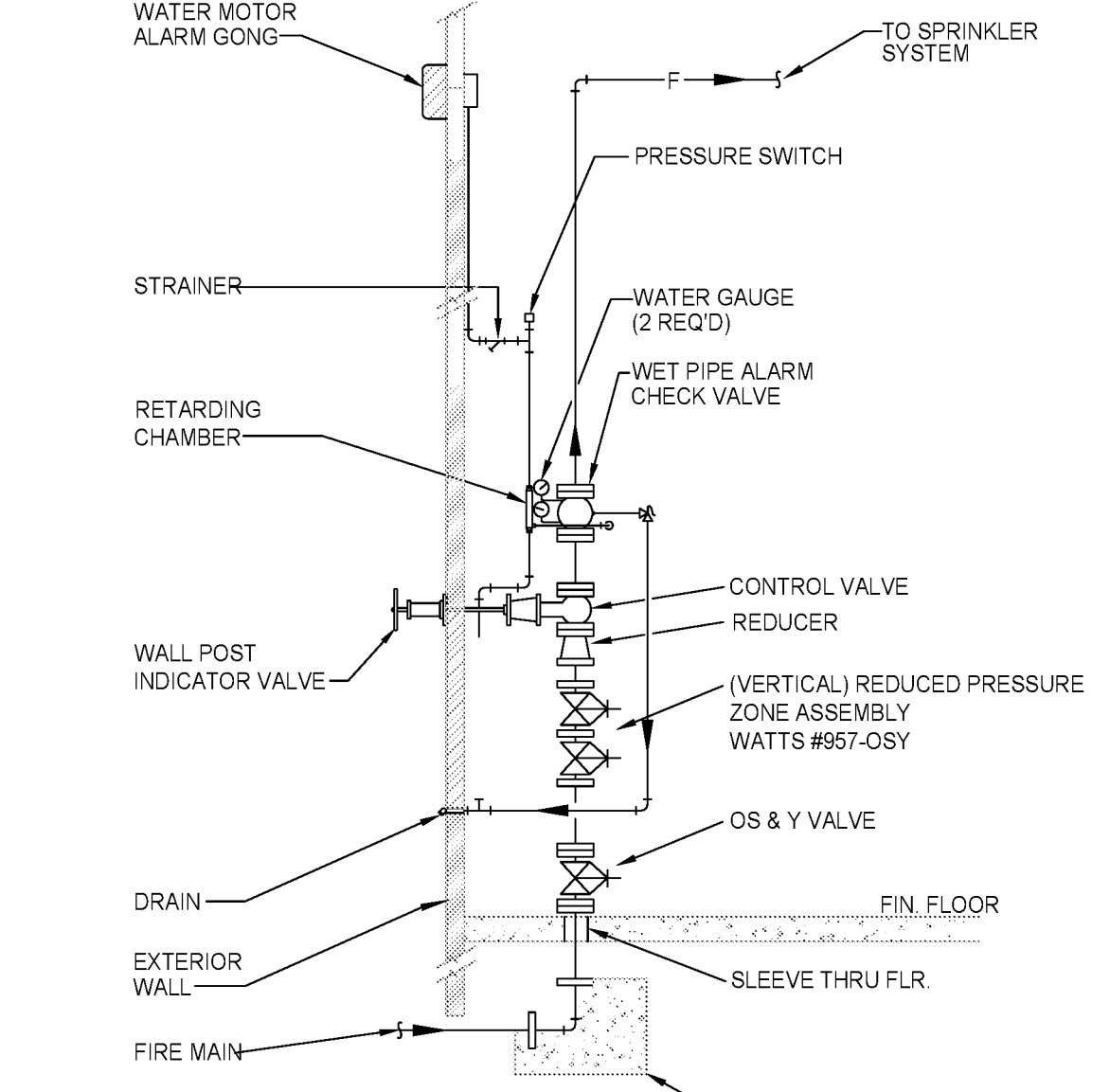
04 WALL CLEANOUT DETAIL
SCALE: NTS



03 FLOOR DRAIN DETAIL
SCALE: NTS



02 COLD WATER SERVICE ENTRY DETAIL
SCALE: NTS



01 FIRE ENTRY DETAIL
SCALE: NTS

PLUMBING FIXTURE SCHEDULE		
MARK	DESCRIPTION / MANUFACTURER / MODEL	REMARKS
WC-1	WATER CLOSET	FIXTURE: AMERICAN STANDARD #3461 001MADERA FLOWISE, VITREOUS CHINA, ELONGATED BOWL, 1.28GPF, FLOOR MOUNTED, TOP SPUD, ADA COMPLIANT. FLUSH VALVE: AMERICAN STANDARD #6047 121 002 MANUAL SEAT, AMERICAN STANDARD #6911 100 HEAVY DUTY OPEN FRONT LESS COVER.
L-1	LAVATORY	FIXTURE: AMERICAN STANDARD #0518 000 UNGLAZED RIM, UNDER MOUNT, VITREOUS CHINA, OVERFLOW, ADA COMPLIANT. FAUCET: AMERICAN STANDARD #7353 841 TOWNSEND WIDESPREAD MIXING VALVE, BRADLEY #559-4000BY, BELOW DECK THERMOSTATIC MIXING VALVE WITH MOUNTING BRACKET #545-2456 TRIM: MCGUIRE #150WC, 1-1/4" CHROME PLATED CAST BRASS OFFSET TAILPIECE WITH FLAT PERFORATED GRID STRAINER, MCGUIRE #8972C CHROME PLATED CAST BRASS P-TRAP AND CLEANOUT PLUG WITH HEAVY BRASS SLIP NUTS, MCGUIRE #LPH2165LK LOOSE KEY ANGLE STOPS WITH CHROME PLATED COPPER RISERS
L-2	WALL HUNG LAVATORY	FIXTURE: AMERICAN STANDARD #0555 012 VITREOUS CHINA, FRONT OVERFLOW, FAUCET LEDGE, 4" CENTER, WALL MOUNT AT HANDICAP HEIGHT BATHROOM SINK FAUCET: AMERICAN STANDARD #7353 841 TOWNSEND WIDESPREAD MIXING VALVE, BRADLEY #559-4000BY, BELOW DECK THERMOSTATIC MIXING VALVE WITH MOUNTING BRACKET #545-2456 TRIM: MCGUIRE #150WC, 1-1/4" CHROME PLATED CAST BRASS OFFSET TAILPIECE WITH FLAT PERFORATED GRID STRAINER, MCGUIRE #8972C CHROME PLATED CAST BRASS P-TRAP AND CLEANOUT PLUG WITH HEAVY BRASS SLIP NUTS, MCGUIRE #LPH2165LK LOOSE KEY ANGLE STOPS WITH CHROME PLATED COPPER RISERS
S-1	KITCHEN SINK - TWO COMPARTMENT	FIXTURE: BLANCO #516217, 49" X 18" X 10", DOUBLE BOWL, UNDER MOUNT, 18 GAUGE, TYPE 304 STAINLESS STEEL, REAR DRAIN PLACEMENT. FAUCET: AMERICAN STANDARD #4433 350 SEMI-PROFESSIONAL KITCHEN FAUCET, ADA COMPLIANT. TRIM: MCGUIRE #LPH2165LK LOOSE KEY ANGLE STOPS WITH CHROME PLATED COPPER RISERS DISPOSAL: INSINKERATOR #BADGER 5, CONTINUOUS FEED, WITH 1/2 H.P. MOTOR, GALVANIZED STEEL GRINDING ELEMENTS WITH TWO STAINLESS STEEL 360° SWIVEL LUGS, SELF SERVICE WRENCH.
S-2	SINK - SINGLE COMPARTMENT	FIXTURE: BLANCO #442079, 25" X 18" X 5 1/2", SINGLE BOWL, UNDER MOUNT, 18 GAUGE, 304 STAINLESS STEEL, REAR CENTER DRAIN PLACEMENT, ADA COMPLIANT. FAUCET: AMERICAN STANDARD #6542 170 WIDESPREAD LAVATORY, 5" GOOSENECK SPOUT, 4" LEVER HANDLES, 1.5 GPM, 8" CENTERS, CAST BRASS MATERIAL, 5" SPOUT REACH, ADA COMPLIANT. TRIM: MCGUIRE #LPH2165LK LOOSE KEY ANGLE STOPS WITH CHROME PLATED COPPER RISERS
S-3	SINK - SINGLE COMPARTMENT	FIXTURE: BLANCO #442079, 25" X 18" X 5 1/2", SINGLE BOWL, UNDER MOUNT, 18 GAUGE, 304 STAINLESS STEEL, REAR CENTER DRAIN PLACEMENT, ADA COMPLIANT. FAUCET: AMERICAN STANDARD #4433 350 SEMI-PROFESSIONAL KITCHEN FAUCET, ADA COMPLIANT. TRIM: MCGUIRE #LPH2165LK LOOSE KEY ANGLE STOPS WITH CHROME PLATED COPPER RISERS
S-4	SINK - SINGLE COMPARTMENT	FIXTURE: BLANCO #442079, 25" X 18" X 5 1/2", SINGLE BOWL, UNDER MOUNT, 18 GAUGE, 304 STAINLESS STEEL, REAR CENTER DRAIN PLACEMENT, ADA COMPLIANT. FAUCET: AMERICAN STANDARD #6542 170 WIDESPREAD LAVATORY, 5" GOOSENECK SPOUT, 4" LEVER HANDLES, 1.5 GPM, 8" CENTERS, CAST BRASS MATERIAL, 5" SPOUT REACH, ADA COMPLIANT. TRIM: MCGUIRE #LPH2165LK LOOSE KEY ANGLE STOPS WITH CHROME PLATED COPPER RISERS
MS-1	MOP SINK	FIXTURE: MUSTEE #63M, 24"D X 24"W X 10"H, MOLDED FROM HIGH IMPACT RESISTANT DURASTONE STRUCTURAL FIBERGLASS, ELEVATED, SELF-DRAINING SHELF AND REMOVABLE STRAINER, INTEGRAL, MOLDED-IN DRAIN FOR CONNECTION 3" ABS, PVS OR CAST IRON MOP SERVICE BASIN. FAUCET: MUSTEE #63 600A SERVICE FAUCET ACCESSORIES: MUSTEE #65 700 HOSE AND HOSE HOLDER, 65 600 MOP HANGER, HIGH IMPACT-RESISTANT VINYL BUMPER GUARDS AND MODEL #67 2424 TWO PANELS & BRACKET FOR 24" X 24" CORNER DURAGUARD WALL GUARDS.
EW-1	ELECTRIC WATER COOLER (ADA)	FIXTURE: ELKAY #LZS8WSLK, LIGHT GRAY GRANITE, 8GPH, 115V, 6 FLA, WALL MOUNT, ADA COMPLIANT. FAUCET: AMERICAN STANDARD #6542 170 WIDESPREAD LAVATORY, 5" GOOSENECK SPOUT, 4" LEVER HANDLES, 1.5 GPM, 8" CENTERS, CAST BRASS MATERIAL, 5" SPOUT REACH, ADA COMPLIANT. TRIM: MCGUIRE #LPH2165LK LOOSE KEY ANGLE STOP WITH CHROME PLATED COPPER RISERS
WMB-1	WASHING MACHINE CONNECTION BOX	FIXTURE: GUY GRAY #BB209TS SPACE SAVER WASHING MACHINE SUPPLY AND DRAIN WITH 1/2" MPT BRASS CONNECTION, 2" DRAIN PIPE.
WCB-1	WATER CONNECTION BOX	FIXTURE: GUY GRAY #MB1 SERIES, 20 GA STEEL BOX WITH POWDER COAT AND 1/4 TURN VALVE.
FD-1	FLOOR DRAIN	FIXTURE: JAY R. SMITH #2005-07-NB, COATED CAST IRON BODY, TWO PIECE BODY WITH DRAINAGE FLANGE, INVERTIBLE NON-FUNCTURING FLASHING COLLAR, SEEPAGE HOLES, BOTTOM OUTLET AND ADJUSTABLE 7" ROUND NICKEL BRONZE STRAINER.
FS-1	FLOOR SINK - HALF GRATE	FIXTURE: ZURN #Z-1900-P-223, 12" X 12" X 6" CAST IRON BODY FLOOR SINK WITH 2" GRATE, ALUMINUM BUCKET AND TRAP PRIMER CONNECTION.
FD-2	FUNNEL FLOOR DRAIN	FIXTURE: JAY R. SMITH #2005-F37-PB-3580, COATED CAST IRON BODY, TWO PIECE BODY WITH DRAINAGE FLANGE, INVERTIBLE NON-FUNCTURING FLASHING COLLAR, SEEPAGE HOLES, BOTTOM OUTLET AND ADJUSTABLE 7" ROUND POLISHED BRONZE RECESSED STRAINER AND 4" FUNNEL.
PF-1	POT FILLER	FAUCET: ELKAY #LKVA4091, LEVER HANDLES, 4.0 GPM, WALL MOUNT, SINGLE FAUCET HOLE, BRASS MATERIAL, ADA COMPLIANT.
SH-1	SHOWER (ADA)	FIXTURE: REFER TO ARCHITECTURAL DRAWINGS. DRAIN: REFER TO FLOOR PLANS FOR FLOOR DRAIN DESIGNATION. SHOWER VALVE AND HEAD: AMERICAN STANDARD #7353 507 TOWNSEND SHOWER ONLY TRIM KIT WITH R111 VALVE BODY, 1.8 GPM, ADA COMPLIANT.
TD-1 - TD-8	TRENCH DRAIN	FIXTURE: ZURN #Z806, WIDE REVEAL FIBER REINFORCED POLYMER TRENCH DRAIN SYSTEM, SHALL HAVE A POSITIVE MECHANICAL CONNECTION BETWEEN CHANNEL SECTIONS, SHALL BE PROVIDED WITH STANDARD DGG GRATES THAT LOCK DOWN TO FRAME, WIDE REVEAL DUCTILE IRON SLOTTED GRATE CONFORMING TO ASTM SPECIFICATION A536-84.
TD-7	TRENCH DRAIN	FIXTURE: JAY R. SMITH #6965, STAINLESS STEEL TRENCH DRAIN CHANNELS SHALL BE 39 3/8" LONG, 6 3/8" WIDE, AND HAVE A 4" WIDE THROAT WITH BOLTING END PLATES. THE MODULAR CHANNEL SECTIONS SHALL BE MADE OF 16-GAUGE TYPE 304 STAINLESS STEEL.
MRS-1	MANUAL RESET SWITCH	MANUAL RESET SWITCH FOR GAS: LAMB INDUSTRIES (ESWITCH) KID7 SERIES, NORMALLY CLOSED, PROVIDED BY ELECTRICAL CONTRACTOR AND INSTALLED BY PLUMBING AND ELECTRICAL CONTRACTOR.
SV-1	SOLENOID VALVE	SOLENOID SHUT-OFF VALVE: SNAP-TITE 230-FV-BNA-MMQI PROVIDED BY ELECTRICAL CONTRACTOR AND INSTALLED BY PLUMBING CONTRACTOR COORDINATE WITH ELECTRICAL CONTRACTOR
TF-1	TRUCK FILL	POTTER ROEMER # 4065-B, #4625, CAST BRASS VALVE WITH RED NAD WHEEL, FEMALE N.P.T INLET X MALE HOSE THREAD OUTLET, 300PSI.
WH-1	WALL HYDRANT - NON FREEZE	FIXTURE: J. R. SMITH #59590T, BRONZE NICKEL PLATED QUARTER TURN SELF DRAINING, NON-FREEZE, HOSE CONNECTION, INTEGRAL VACUUM BREAKER, T-HANDLE KEY AND STAINLESS STEEL BOX, W/ FULL 180° COVEROPENING.
US-1	UTILITY SINK	FIXTURE: CALIFORNIA STAINLESS MFG COVED CORNERED SINKS - SERIES 700, 16 GAUGE, TYPE 316 STAINLESS STEEL, 8" BACKSLASH, REAR CORNER DRAIN PLACEMENT, ADA COMPLIANT. FAUCET: ELKAY #LK943C TWO HANDLE WALL MOUNT PRE-RINSE COMMERCIAL FAUCET, 3.2 GPM, SOLID BRASS WITH CHROME FINISH, ADA COMPLIANT. TRIM: MCGUIRE #LPH2165LK LOOSE KEY ANGLE STOPS WITH CHROME PLATED COPPER RISERS
AHR-1	AIR HOSE REEL	COXREELS #EZ-PL-350 AUTO REWIND EASILY WRAPS, STORES AND PROTECT HOSE, HEAVY GAUGE 1/4" STEEL BASE & SUPPORT POST, FACTORY-MATCHED CARTRIDGE-STYLE SPRING MOTOR, BRASS NIP SWIVEL INLET MACHINED FROM SOLID, 1" SOLID STEEL AXLE WITH 1" LUBRICATED PRECISION BEARINGS, GUIDE ARM ADJUSTED TO WALL, FLOOR AND OVERHEAD POSITION, MULTI-POSITION LOCK RATCHET SECURES HOSE AT DESIRED LENGTH NON-CORROSIVE STAINLESS STEEL SPRING, PAVL & ZINC PLATED, LOW PRESSURE HOSE REEL, OPERATED AT PRESSURE 300 PSI, 50 FEET 3/8" INSIDE DIAMETER HOSE, 3/8" THREADED NOZZLE PISTOL.

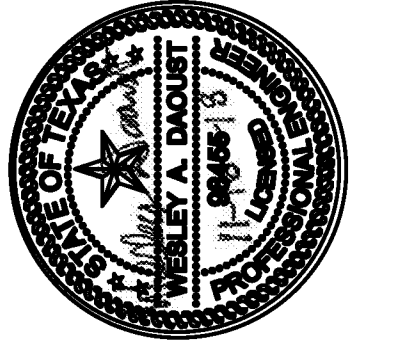
ELECTRIC WATER HEATER SCHEDULE						
MARK	GALLONS	KW/ELEMENTS	INPUT KW	OUTPUT TEMPERATURE	VOLTAGE AVAILABLE	MANUFACTURER MODEL NO.
EWH-1	80	6KW/3EL	18KW	140°	208V 3PH	A.O. SMITH #DRE-80

1. SIZE OF TANK BASED ON GALLONS PER HR. RECOVERY RATE OF 90°F

SHOCK ARRESTOR SCHEDULE	
PIPE SIZE	FIXTURE UNITS
1/2"	1-11
3/4"	12-32
1"	33-60
1-1/4"	61-113
1-1/2"	114-154
2"	155-330

1. ACCEPTABLE MANUFACTURERS INCLUDE PRECISION PLUMBING PRODUCTS, SIOUX CHIEF, WADE AND MIFAB.

BROWN REYNOLDS WATFORD ARCHITECTS
7700 EARLE RIDGE FERRY SOUTH
SUITE 4000
HOUSTON, TEXAS 77045
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WWW.BRWARCH.COM



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Houston, TX 77079
www.dvo.com
Register at www.P.E.8334

BROWN REYNOLDS WATFORD ARCHITECTS, INC.
DATE: 11/16/2018
DRAWN BY: EUG
CHECKED BY: W.D
BRW PROJECT NUMBER: 217079-00

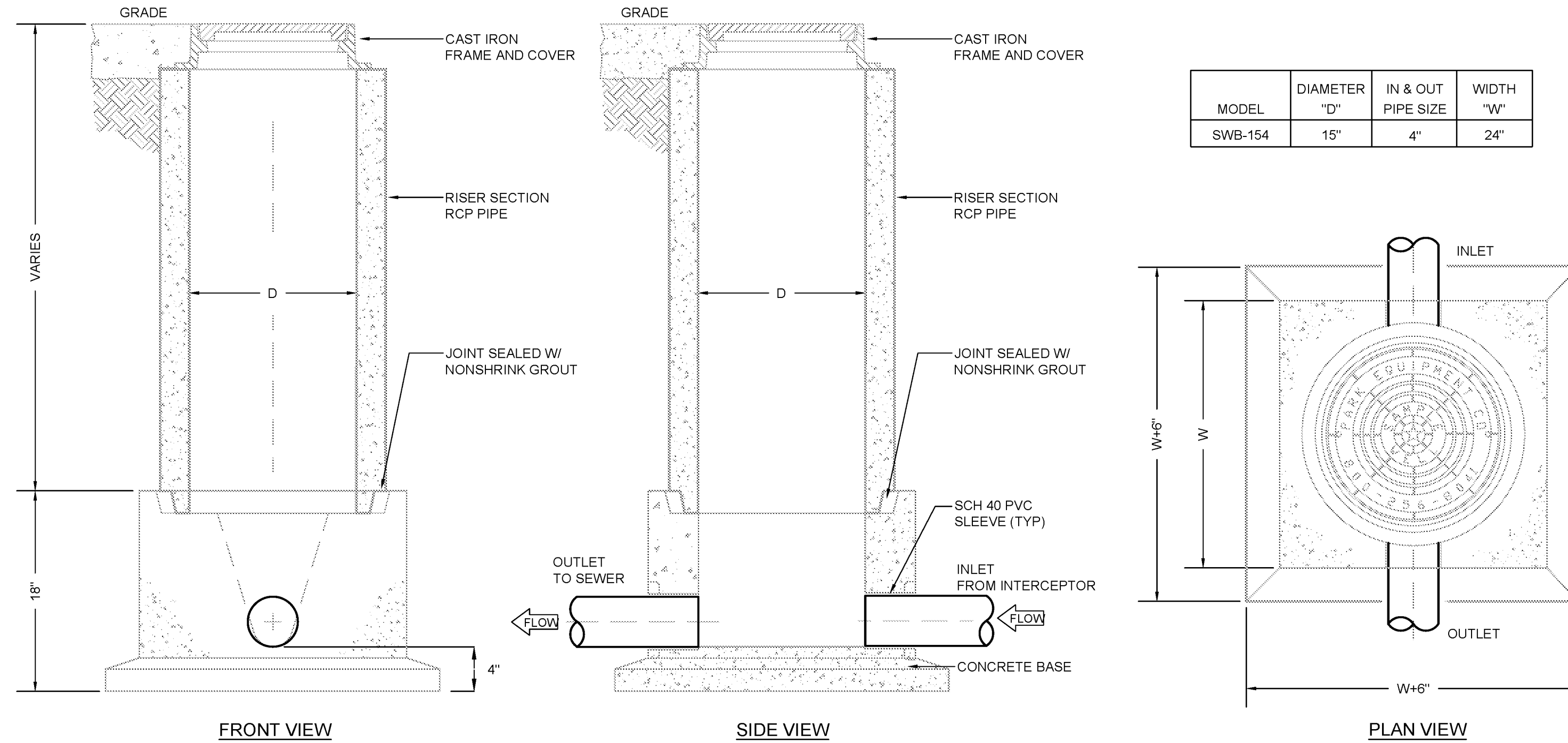
CITY OF GEORGETOWN
GEORGETOWN FIRE STATION No. 6
6700 R.M. 2338
GEORGETOWN, TX, 78626

NO.	REVISION	DATE

P2.1
PLUMBING SCHEDULES & DETAILS

GREASE INTERCEPTOR SIZING CALCULATION			
BASE ON DRAINAGE FIXTURE UNITS			
FIXTURE TYPE	GPM	QUANTITY	TOTAL GPM
KITCHEN SINK	2.5	2	5
			TOTAL GPM
MINIMUM GREASE INTERCEPTOR SIZE = 75 GPM			
PROVIDE THERMACO TRAPZILLA MODEL #TZ-400-ECA OR EQUAL			

SAND/OIL INTERCEPTOR SIZING CALCULATION			
LOCATION	AREA (SQ. FT.)	CALCULATION (1 CU. FT./100 SQ. FT.)	CU. FT. TO GALLONS (CU. FT. x 7.48)
TD-1	706	7.1	52.8
TD-2	647	6.5	48.4
TD-3	706	7.1	52.8
TD-4	749	7.5	56.0
TD-5	686	6.9	51.3
TD-6	749	7.5	56.0
TOTAL GALLONS =			317.3
MINIMUM SAND/OIL INTERCEPTOR SIZE (MINIMUM 350 GAL.) = 400 GAL.			
PROVIDE PARK USA MODEL #CMP-400			
SIZING PER 2012 UPC SECTION 1017.2			



04 SAMPLE WELL DETAIL
SCALE: NTS

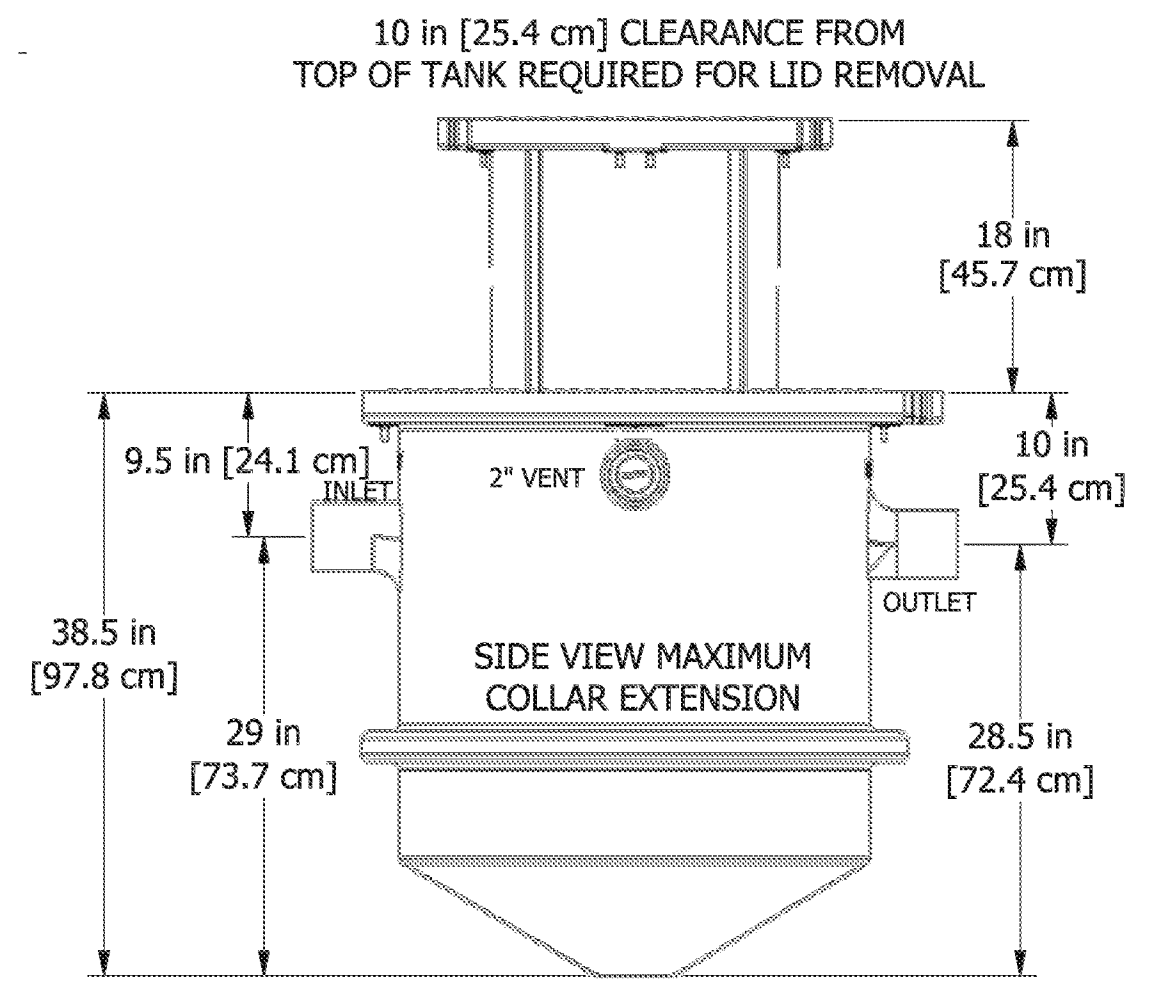
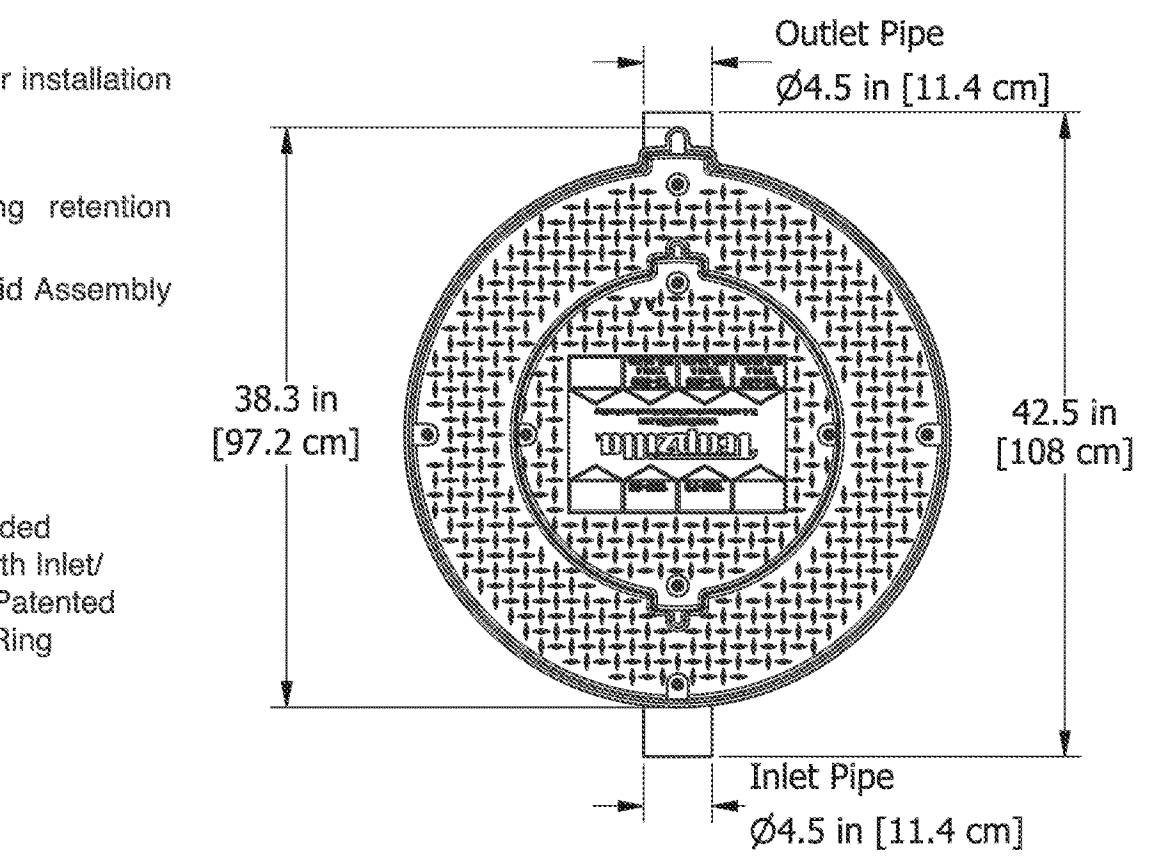
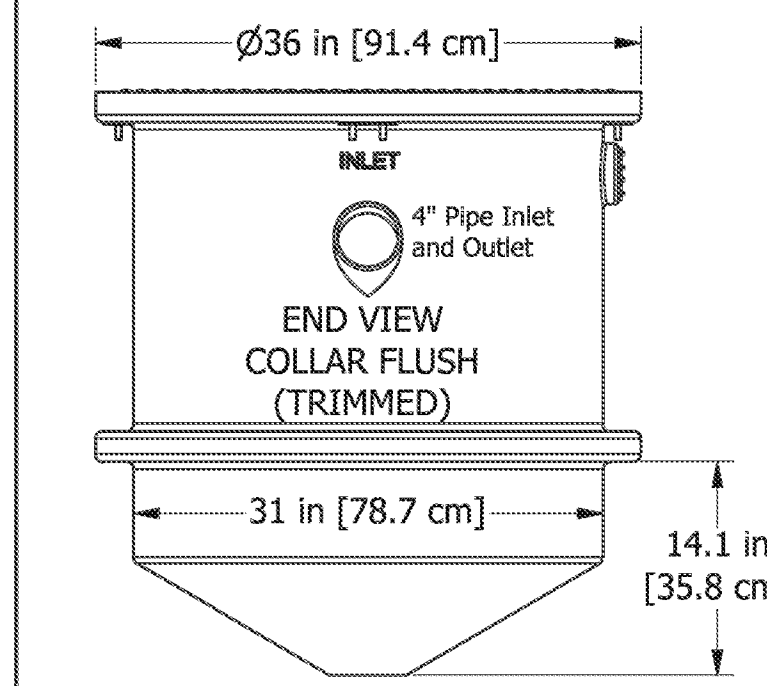
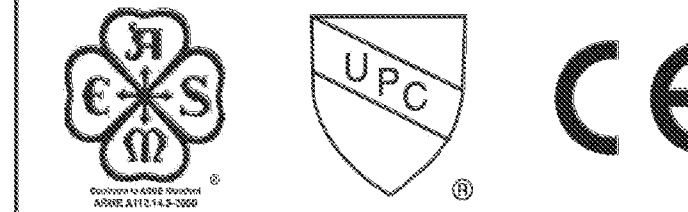
Trapzilla® Grease Interceptor
TZ-400-ECA Specifications

PRODUCT FEATURES

Constructed of corrosion resistant materials suitable for installation in virtually any location.
Compact footprint.
Baffle structure retains separated grease increasing retention efficiency of separator.
Includes one ECALA-TZ-18 Extension Collar Adapter Lid Assembly for in-ground installation.
Included lid rated for foot-traffic only

SPECIFICATIONS

Construction: Single-Piece Rotationally Molded Polyethylene Exterior Tank with Inlet/Outlet Inverts secured using Patented Interior Radial Compression Ring
Flow Rating: 75 GPM (4.73 l/s)
Liquid Capacity: 70 gallons (265 l)
Grease Capacity: 55 gal. (208.2 l)
Solids Capacity: 22.6 gallons (85.6 l)
Inlet/Outlet: 4" (101 mm)



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Trapzilla® Grease Interceptor
TZ-400-ECA Specifications

NOTES

1. READ instruction manual included with system before installing/operating.
2. Unit requires 6" (15.24 cm) of clearance all the way around the lid from walls or other structures to allow for servicing.
3. Make piping connections with rubber "No Hub" connectors.
4. Keep outlet piping as straight as possible. Use only "sweep" connections.
5. Install vent on outlet piping.
6. If installing in conjunction with other Trapzilla products, include cleanout port before, after, and/or between each unit.
7. Do not install "P" Trap on outlet connection of tank (unit already has internal gas trap).
8. Do not reduce pipe size on outlet piping
9. Do not pressure test unit.

Equipment must be installed in compliance with all applicable laws, regulations and codes, including plumbing codes. Installation should be performed by a qualified plumbing contractor.

JOB SPECIFICATION

Grease separator(s) shall be Thermaco Trapzilla hydromechanical grease interceptor system(s) as manufactured by Thermaco, Inc., Asheboro, North Carolina as noted on plans.

SEPARATOR SPECIFICATIONS

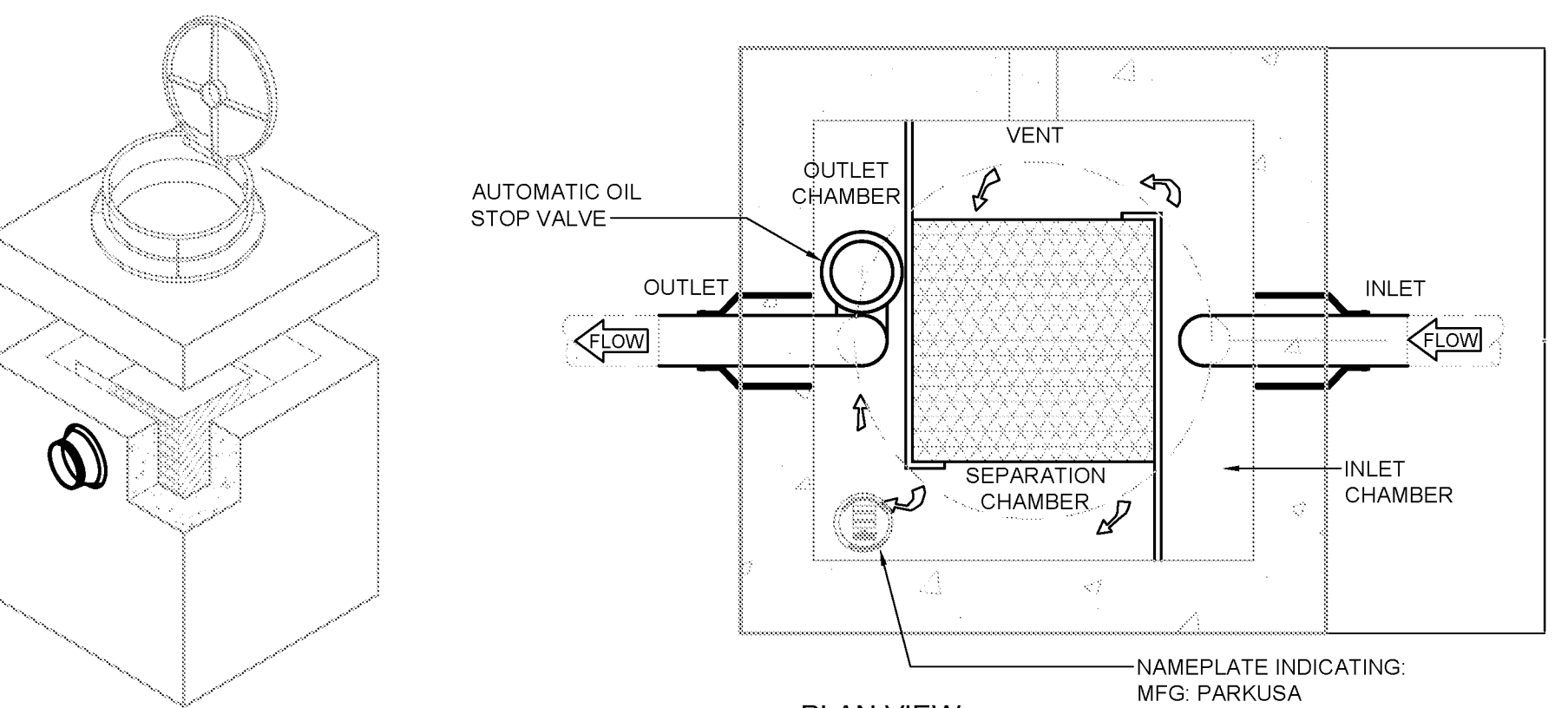
Furnish and install Thermaco Trapzilla Model No. TZ-400-ECA, rotationally molded polyethylene grease interceptor(s) for above or below ground installation, shall be rated at 75 GPM (4.73 l/s) with 55 gal. (208.2 l) / 405.6 lbs. (184 Kg) of total grease storage capacity with flat separation efficiency curve capable of holding 79% of volume in free-floating fats, oils, and grease at capacity, with removable cover for grease and solids removal access, integral anti-floitation anchor ring for in-ground installation, integral horizontal baffle, laminar inlet flow diverter, separate storage compartments for grease and heavier than water solids, a unitary tank body and 4" (101 mm) inlet/outlet structures without gasket interfaces, utilizing an interior radial compression ring conjoining invert to tank outlet/inlet structures without bulkhead fittings and/or gaskets, invert top and bottom secured attachment points, sloping conical bottom for solids retention, integral sewer gas trap, and a fully removable polyethylene self-positioning cover with sealed thread fasteners. Includes one extension collar assembly, linear low-density rotationally molded polyethylene for field adjustability to optimal installation depth.

SUBMITTAL OPTIONS

- ECA-TZ-29 Extension Collar with additional 29" (73.7 cm) of extension
- TZSP-40-ECA Sampling Port with 4" Inlet/Outlet, 0.5" fall with 29" (73.7 cm) Extension Collar Assembly
- TZSP-48-ECA Sampling Port with 4" Inlet/Outlet, 7.8" fall with 29" (73.7 cm) Extension Collar Assembly
- TSS-70-ECA Solids Interceptor for additional Solids Capacity
- VFCA-75 Vented Flow Control Assembly for installation at plumbing fixture level to limit flow to 75 gpm for installations with head height greater than 6'
- MFSH-44 Molded Flow Splitter Assembly for evenly diverting flow to two separate 4" Trapzilla units
- FTCA-22 Fabricated Top Cover Assembly with diamond plate aluminum surface for heavy duty foot-traffic, pallet jacks, food carts etc. (not rated for vehicle traffic)
- H20/Traffic Rated Installation, see link for installation drawings

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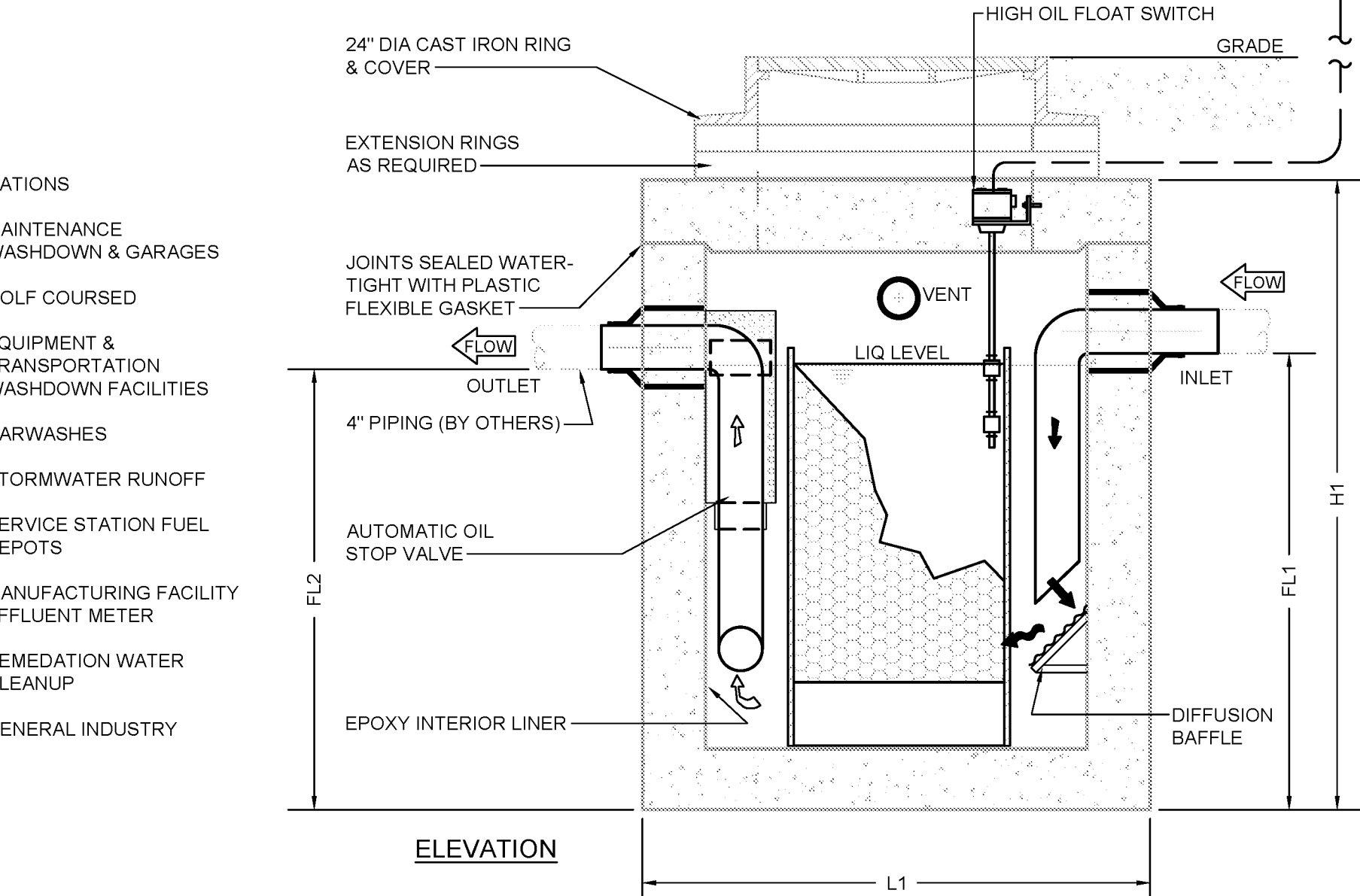
01 GREASE INTERCEPTOR DETAIL
SCALE: NTS



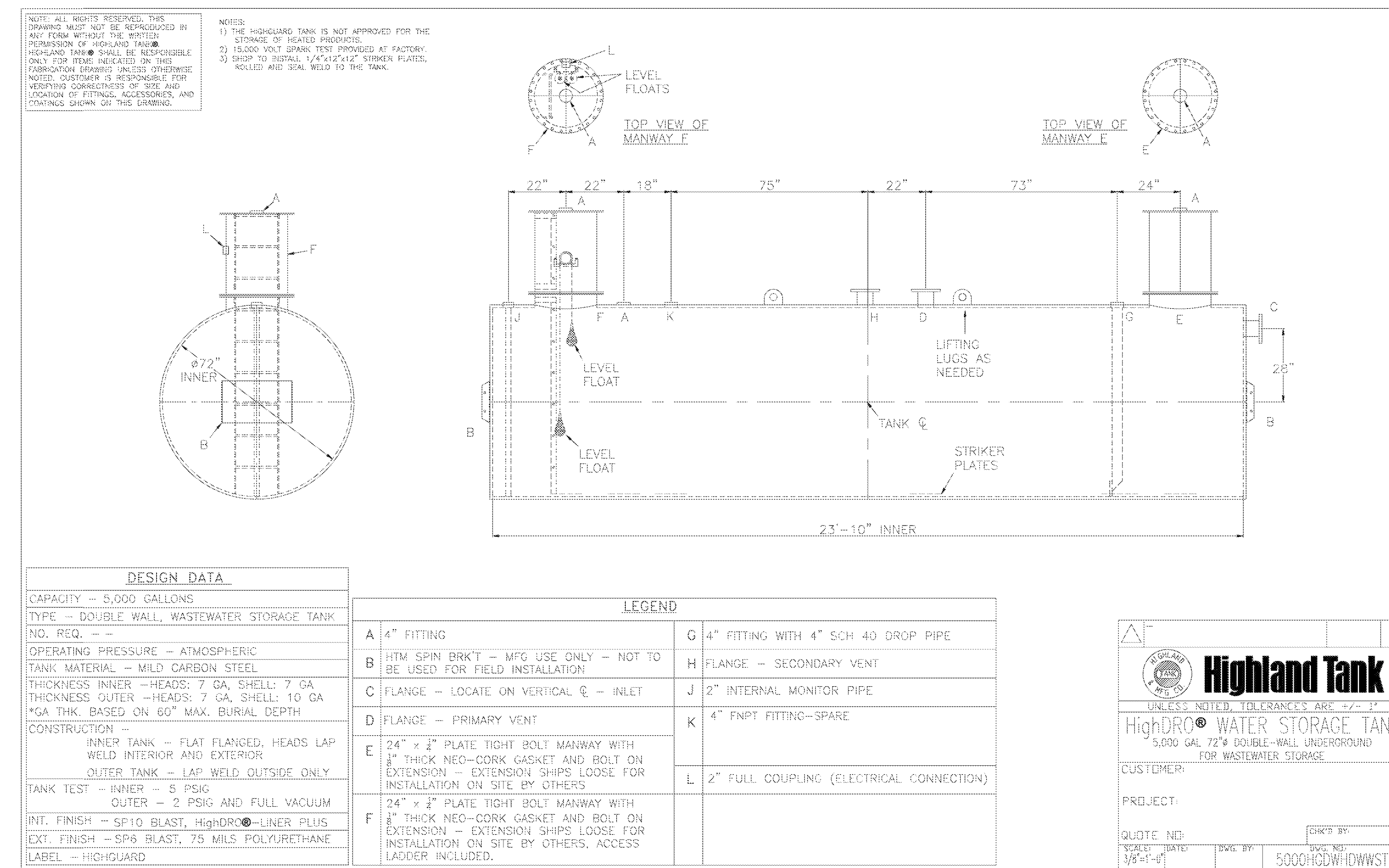
SAND-OIL INTERCEPTOR SCHEDULE

MODEL NO.	CAPACITY U.S. GAL	OIL CAP. U.S. (GAL)	FLOW RATE (GPM)	EMPTY WT (LBS)	LENGTH L1	WIDTH W1	HEIGHT H1	INLET FL1	OUTLET FL2
CMP-400	400	200	40	9,200	60"	60"	54"	45"	42"

HIGH OIL ALARM PANEL MOUNTED AT REMOTE LOCATION

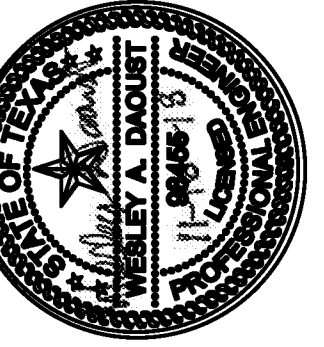
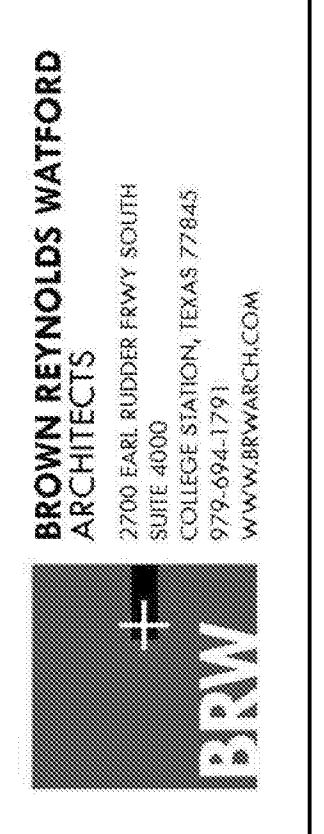


03 SAND/OIL INTERCEPTOR DETAIL
SCALE: NTS



02 HOLDING TANK DETAIL
SCALE: NTS

01 GREASE INTERCEPTOR DETAIL
SCALE: NTS



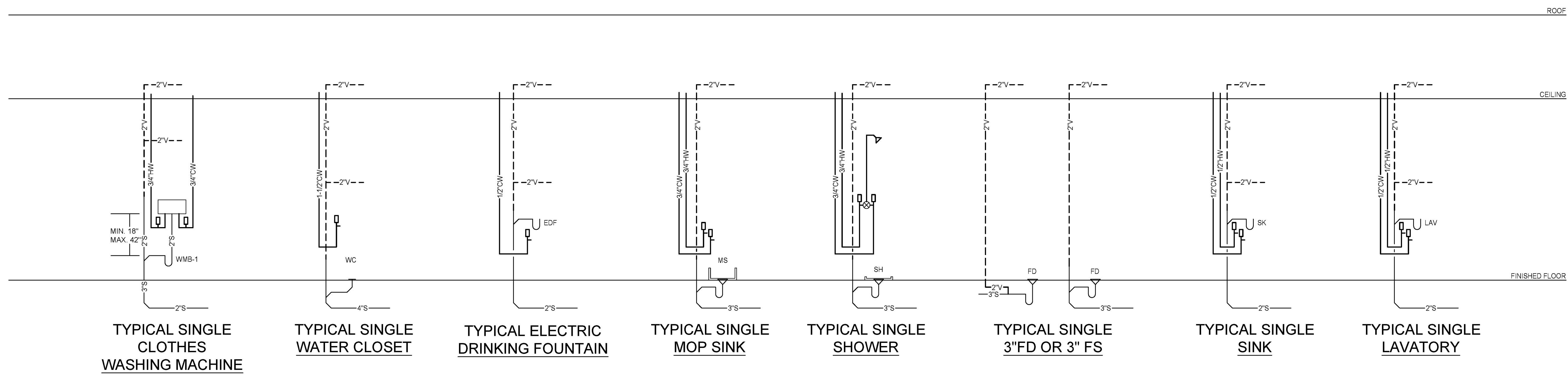
1434 Woodley Road, Part 1, Bldg. 2, Suite 202
Raleigh, NC 27609
www.dvo.com
Registration No. E-5834

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DATE 11/16/2018
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BRW PROJECT NUMBER 217079-00

CITY OF GEORGETOWN
GEORGETOWN FIRE STATION No. 6
6700 R.M. 2138
GEORGETOWN, TX, 78626

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P2.2

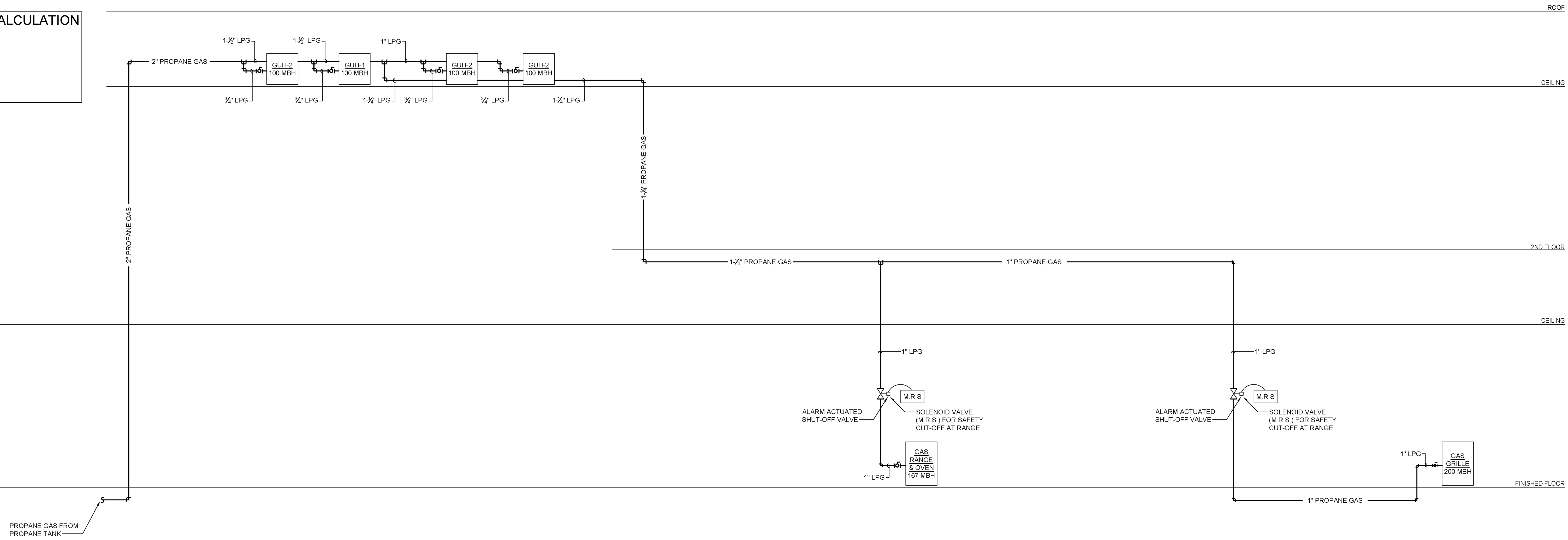


02 PLUMBING RISER DIAGRAM
SCALE: NTS

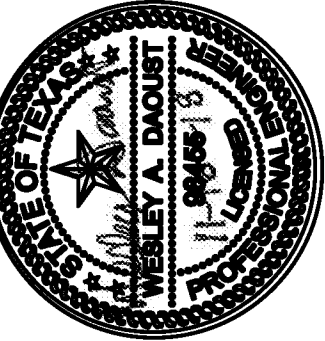
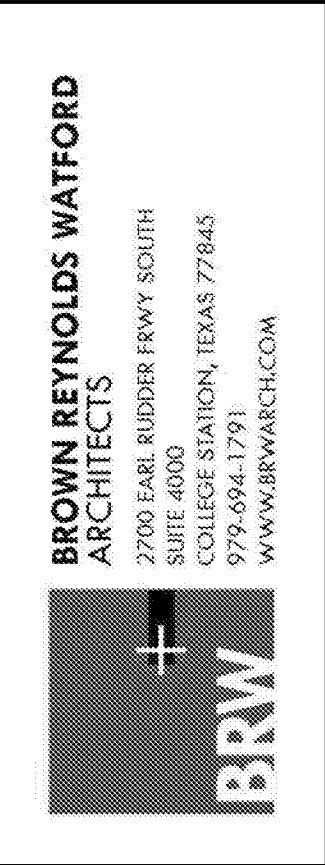
PROPANE GAS PIPE SIZING CALCULATION
4 OZ. PRESSURE

LONGEST MEASURED LENGTH	=	220'
ADD 20% FOR FRICTION AND FITTINGS	=	44'
TOTAL DEVELOPED LENGTH	=	264'

GAS PIPING SIZED BASED ON 300' COLUMN
TABLE 1216.2(2) 2012 UPC



01 PROPANE GAS RISER DIAGRAM
SCALE: NTS



1445 Woodbrass Blvd, Part 1A
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Houston, TX 77079
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P2.3

ELECTRICAL SYMBOLS AND ABBREVIATIONS

NOTE: NOT ALL SYMBOLS AND ABBREVIATIONS INDICATED HERE ARE USED IN THE DRAWINGS AND MAY NOT APPLY TO THIS PROJECT. ADDITIONAL SYMBOLS MAY BE INDICATED IN THE DRAWINGS.

ELECTRICAL ABBREVIATIONS

1P	ONE POLE
2P	TWO POLE
3P	THREE POLE
4P	FOUR POLE
1P1W	ONE POLE, ONE WIRE
1P2W	ONE POLE, TWO WIRE
2P2W	TWO POLE, TWO WIRE
2P3W	TWO POLE, THREE WIRE
3P2W	THREE POLE, TWO WIRE
3P3W	THREE POLE, THREE WIRE
3P4W	THREE POLE, FOUR WIRE
4P4W	FOUR POLE, FOUR WIRE
A	AMPERE
AC	ALTERNATING CURRENT
AF	AMP FRAME
AF1	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
AS	AMP SWITCH
AT	AMP TRIP
ARCH	ARCHITECT
ATS	AUTOMATIC TRANSFER SWITCH
AV	AUDIO VISUAL
B	PEDESTAL MOUNTED ON BENCH TOP
BF	BELOW FLOOR
BLDG	BUILDING
C	CONDUIT
CAT	CATALOG
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CLG	CEILING MOUNTED
CT	CURRENT TRANSFORMER
CJ	COPPER
CL	CENTERLINE
D	DEDICATED DEVICE
DC	DIRECT CURRENT
Δ	DELTA
DISC	DISCONNECT
DWG	DRAWING
E	EMERGENCY
EC	ELECTRICAL CONTRACTOR
EMT	ELECTRIC METALLIC TUBING
EWG	ELECTRIC WATER COOLER
EX	EXISTING
FLA	FULL LOAD AMPS
GC	GENERAL CONTRACTOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFPE	GROUND FAULT PROTECTION EQUIPMENT
GND	GROUND
GRC	GALVANIZED RIGID CONDUIT
HP	HORSEPOWER
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
HZ	HERTZ (50/60) PER SECOND
JB	JUNCTION BOX
KVA	KILOVOLT AMPERE
KVAR	KILOVOLT AMPERE REACTIVE
KW	KILOWATT
LP	LIGHTING PANELBOARD
LS	LIMIT SWITCH
LTG	LIGHTING
LV	LOW VOLTAGE
MCC	MOTOR CONTROL CENTER
MDF	MAIN DISTRIBUTION PANEL
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MTD	MOUNTED
MTG	MOUNTING
MTS	MANUAL TRANSFER SWITCH
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRIC CODE
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
#	NUMBER
NTS	NOT TO SCALE
OH	OHM
P	POLE
PB	PULL BOX
PC	PLUMBING SYSTEM CONTRACTOR
PH	PHASE
PNL	PANELBOARD
PR	PAIR
PRI	PRIMARY
PVC	POLYVINYL CHLORIDE CONDUIT
R	RELAY
REC	RECESSED
RSC	RIGID STEEL CONDUIT
SEC	SECONDARY
SN	SOLID NEUTRAL
SP	SPARE
SS	STAINLESS STEEL
ST	SHUNT TRIP
STP	SHIELDED TWISTED PAIR
SUSP	SUSPENDED
SW	SWITCH
SWBD	SWITCHBOARD
T	TAMPER RESISTANT SAFETY RECEPTACLE
TC	TELEPHONE CABINET
TCI	TELECOMMUNICATIONS CABLING INSTALLER
TEL/DATA	TELEPHONE/DATA
TEL	TELEPHONE
TYP	TYPICAL
UG	UNDERGROUND
UTP	UNSHIELDED TWISTED PAIR
V	VOLT
UOI	UNLESS OTHERWISE INDICATED
W	WYE
WP	WEATHERPROOF
XFMR	TRANSFORMER
ZAM	ZONE ADAPTER MODULE
*F2	MOUNTING UNITS TO CENTERLINE ABOVE FINISHED FLOOR OR GRADE

LIGHTING AND CONTROLS

	○	SURFACE MOUNTED LIGHT FIXTURES
	⊙	RECESS MOUNTED LIGHT FIXTURES
	⊚	WALL MOUNTED LIGHT FIXTURES
	⊙	SUSPENDED, PENDENT, CHAIN STEM, OR CABLE HUNG LIGHT FIXTURES
	■	SHADING INDICATES FIXTURE FULLY WIRED TO EMERGENCY OR NIGHT LIGHTING CIRCUIT
	▨	PARTIAL SHADING INDICATES FIXTURE PARTIALLY WIRED TO EMERGENCY OR NIGHT LIGHTING CIRCUIT. REFER TO GENERAL NOTE #17.
	—|—	STRIP OR UNDER CABINET LIGHT FIXTURE
	⊗	SINGLE HEAD SPOT LIGHT OR FLOOD LIGHT FIXTURE
	⊗	DOUBLE HEAD SPOT LIGHT OR FLOOD LIGHT FIXTURE
	⊗	EXIT LIGHT FIXTURE - ARROWS AND FACE AS INDICATED ON DRAWINGS
	—|—	LIGHTING TRACK - LENGTH AS INDICATED ON DRAWING NUMBER OF FIXTURES AS INDICATED ON DRAWING AND/OR LIGHT FIXTURE SCHEDULE
	—|—	EMERGENCY BATTERY REMOTE LIGHTING HEADS
	—|—	EMERGENCY BATTERY UNIT WITH LIGHTING HEADS
	⊙	SURFACE MOUNTED ACCENT LIGHT
	⊙	RECESS MOUNTED ACCENT LIGHT
	⊙	SINGLE POLE SWITCH - MOUNT 4" AFF UNLESS OTHERWISE NOTED
	⊙	SWITCH DESIGNATION SWITCH TYPE (2) DOUBLE POLE (3) 3 WAY (4) 4 WAY (K) KEY OPERATED (P) WITH PILOT LIGHT INDICATION (D) DUAL LEVEL SWITCH (VC) VACANCY SENSOR (D) WALL MOUNTED DIMMER SWITCH
	⊙	LOW VOLTAGE SWITCH OVERRIDE RELAY DESIGNATION
	⊙	LIGHTING CONTROL VACANCY SENSOR-CEILING MOUNTED
	⊙	TIME CLOCK - SEE SCHEDULE ON SHEET#
	⊙	CONTACTOR - SEE SCHEDULE ON SHEET#
	⊙	PHOTO CELL
	⊙	LIGHTING CONTROLLER PANEL
	⊙	LCP1 DESIGNATION
	⊙	PANELBOARD DESIGNATION

POWER AND COMMUNICATIONS

	—	CIRCUIT HOME RUN WITH GROUND, HOT, NEUTRAL
	—	CIRCUIT TO BE PULLED THROUGH DESIGNATED RELAY IN LIGHTING CONTROL PANEL (IF APPLICABLE)
	—	CIRCUITING INFORMATION FOR GROUPING PURPOSES ONLY. CONTRACTOR SHALL SELECT ACTUAL CIRCUIT BREAKERS AND BALANCE LOADS IN PANELBOARD
	—	PANELBOARD INFORMATION. SEE SCHEDULING SHEETS FOR MORE INFORMATION.
	⊙	DUPLEX RECEPTACLE - MOUNTED 18" AFF UNLESS OTHERWISE NOTED
	⊙	TAMPER PROOF DUPLEX RECEPTACLE - MOUNTED 18" AFF UNLESS OTHERWISE NOTED
	⊙	GFCI DUPLEX RECEPTACLE - MOUNTED 18" AFF UNLESS OTHERWISE NOTED
	⊙	DUPLEX RECEPTACLE - MOUNTED 6" ABOVE COUNTER BACKSPASH UNLESS OTHERWISE NOTED
	⊙	QUAD RECEPTACLE - MOUNTED 18" AFF UNLESS OTHERWISE NOTED
	⊙	DUPLEX RECEPTACLE - MOUNTED FLUSH IN CEILING
	⊙	FLOOR MOUNTED ELECTRICAL BOX SEE DRAWINGS FOR TYPES OF OUTLETS REQUIRED AT EACH BOX (F) FLUSH TYPE (P) POKE THRU TYPE
	⊙	PUSHBUTTON
	⊙	SPECIAL PURPOSE OUTLET - THIS ELECTRICAL CONNECTION REQUIRES ONSITE COORDINATION WITH OTHER CONTRACTORS AND/OR VENDORS PRIOR TO INSTALLATION. PROVIDE ALL CONNECTIONS, MOTOR STARTERS, AND DISCONNECTS REQUIRED BY CODE AND FINAL SUGGESTED MANUFACTURER REQUIREMENTS. CONTACT ENGINEER WITH ANY REQUIRED CHANGES TO ELECTRICAL DESIGN.
	⊙	MOTOR CONNECTION (2) MOTOR IDENTIFICATION
	⊙	PANELBOARD - FLUSH MOUNTED
	⊙	PANELBOARD - SURFACE MOUNTED
	⊙	TRANSFORMER - MOUNT ON 4" PAD UNLESS OTHERWISE NOTED
	⊙	IN-GRADE PULLBOX
	⊙	DISCONNECT SWITCH
	⊙	FUSED DISCONNECT SWITCH
	⊙	COMBINATION MOTOR STARTER
	⊙	MOTOR RATED SWITCH
	⊙	JUNCTION BOX
	⊙	DOUBLE ACTION MUSHROOM HEAD EMERGENCY POWER OFF BUTTON. THIS BUTTON SHALL PROVIDE A SIGNAL TO SHUNT TRIP ALL CIRCUIT BREAKERS WHICH FEED POWER TO THIS ROOM. ALL CIRCUIT BREAKERS FEEDING THIS ROOM SHALL BE SHUNT TRIP TYPE.
	⊙	TELEPHONE/DATA OUTLET - PROVIDE SINGLE GANG BOX AND 1" CONDUIT WITH PULL STRING TO NEAREST ACCESSIBLE CEILING.

GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER AND SHALL COMPLY WITH ALL ADOPTED LOCAL, STATE, AND NATIONAL CODES.
- ALL ELECTRICAL WORK REQUIRES CITY INSPECTION. ELECTRICAL WORK COVERED OR ENCLOSED PRIOR TO CITY INSPECTION SHALL BE UNCOVERED FOR INSPECTION AND REPLACED AT NO EXPENSE TO THE OWNER.
- ALL CONDUITS MUST CONTAIN A GROUND WIRE. USE OF THE CONDUIT BODY AS A GROUNDING METHOD IS PROHIBITED.
- ALL CONDUITS SHALL BE INSTALLED PARALLEL AND/OR PERPENDICULAR TO BUILDING LINES.
- ALL CONDUCTORS SHALL BE COPPER UNLESS SPECIFIED OTHERWISE.
- DO NOT SCALE THE DRAWINGS.
- ELECTRICAL CONDUITS AND/OR CIRCUITS PENETRATING FIRE RATED CEILING AND WALLS TO BE SEALED FIRE AND SMOKE TIGHT AT THE PENETRATION.
- THE CONTRACTOR SHALL REPLACE AND/OR REPAIR ALL WALLS, CEILINGS, DOORS, EQUIPMENT, WIRING, CONDUIT, ETC. WHICH ARE DAMAGED OR REMOVED BY CONTRACTOR TO THE SATISFACTIONS OF THE ARCHITECT/ENGINEER.
- ALL MATERIALS SHALL BE NEW AND UNUSED, AND OF THE BEST QUALITY. ALL MATERIAL INSTALLED SHALL BE UL LISTED OR AS REQUIRED BY LOCAL BUILDING CODES.
- VERIFY VOLTAGE, CURRENT AND PHASES FOR ALL EQUIPMENT TO BE INSTALLED INCLUDING BY OWNER.
- THE CONTRACTOR SHALL PROVIDE ALL FUSES AND CIRCUIT BREAKERS WHERE REQUIRED BY THE NEW CONSTRUCTION DOCUMENTS.
- ALL ELECTRICAL CABINETS, PANELS, DISCONNECTS, TRANSFORMERS, CONTROLS, RECEPTACLES, J-BOXES, ETC., SHALL BE MARKED, TAGGED AND IDENTIFIED. NOTE FEEDER SOURCE WHERE APPLICABLE.
- CONTRACTOR SHALL PROVIDE ALL MATERIALS EXCEPT AS NOTED AND MAKE ALL NECESSARY CONNECTIONS TO NEWLY INSTALLED EQUIPMENT.
- UPON COMPLETION OF THE PROJECT, ALL CHANGES SHALL BE DOCUMENTED, AND REDLINED. AS-BUILT DRAWINGS SHALL BE TURNED OVER TO THE OWNER BY THE CONTRACTOR.
- 4" HOUSEKEEPING CONCRETE PADS SHALL BE FURNISHED FOR ALL FLOOR MOUNTED EQUIPMENT, BY OTHERS.
- THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING A BID TO VERIFY EXISTING CONDITIONS. BY SUBMITTING A BID THE CONTRACTOR ACKNOWLEDGES THAT HE HAS VISITED THE SITE AND THE BID IS ADEQUATE TO PERFORM WORK NECESSARY TO MAKE THE SYSTEMS COMPLETE AND OPERATIONAL. IF THE CONDITIONS AT THE SITE ARE NOT SUCH THAT THE WORK CAN BE INSTALLED AS SHOWN, CONTRACTOR'S BID SHALL INCLUDE COST, TO COVER NECESSARY ADJUSTMENTS AND ADDITIONS, (BASED ON SITE CONDITIONS) TO MAKE THE SYSTEMS COMPLETE AND OPERATIONAL. CONTRACTOR TO CONTACT ARCHITECT/ENGINEER WITH ANY FIELD DISCREPANCIES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH IBC 1006.3.1 BY HAVING SELECTED LIGHTING MANUFACTURER SUBMIT EMERGENCY PHOTOMETRIC PLAN WITH LIGHTING SUBMITTAL SHOWING COMPLIANCE, AND ADDING ADDITIONAL FIXTURES WHERE REQUIRED AT NO COST TO THE OWNER.

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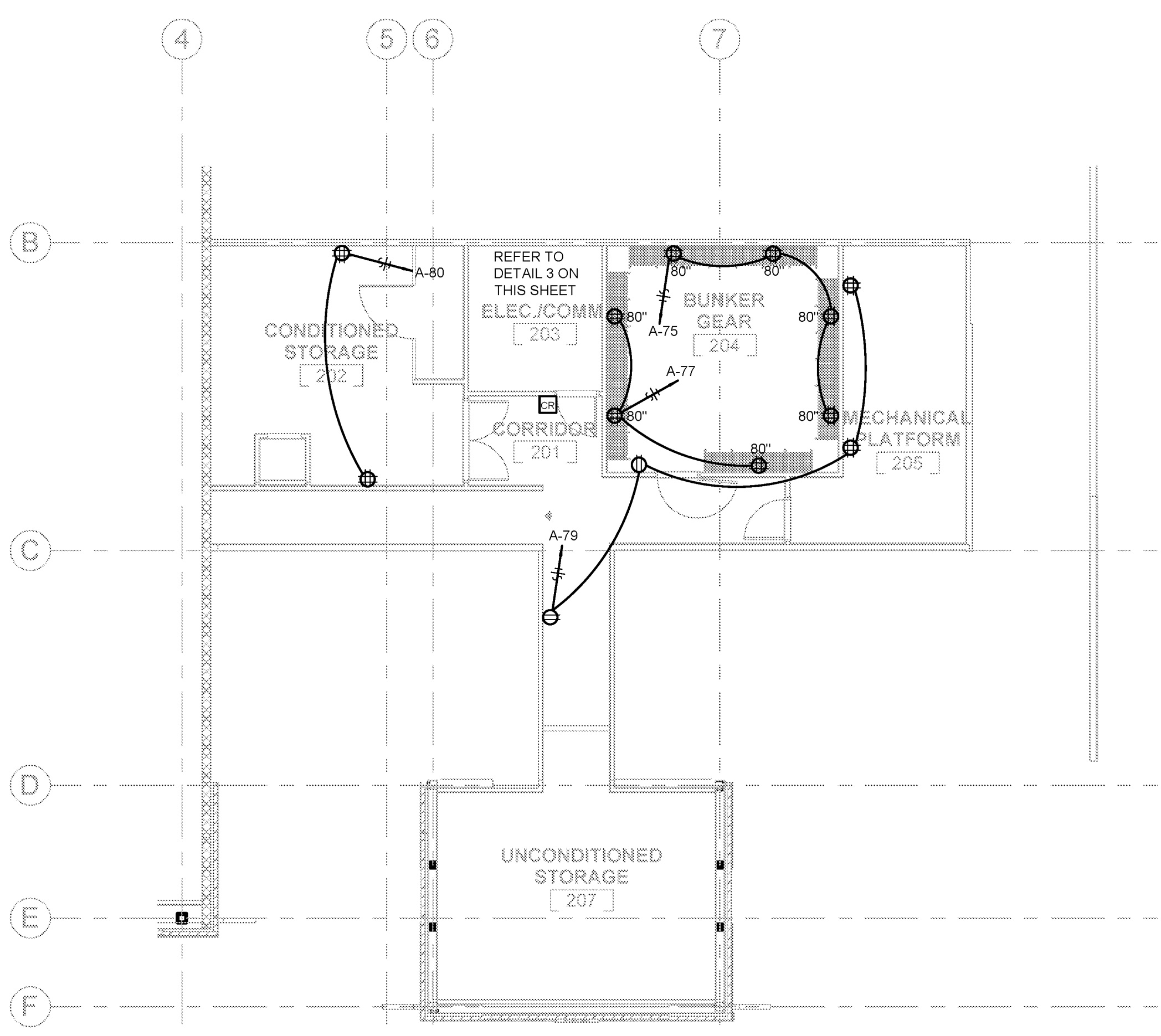
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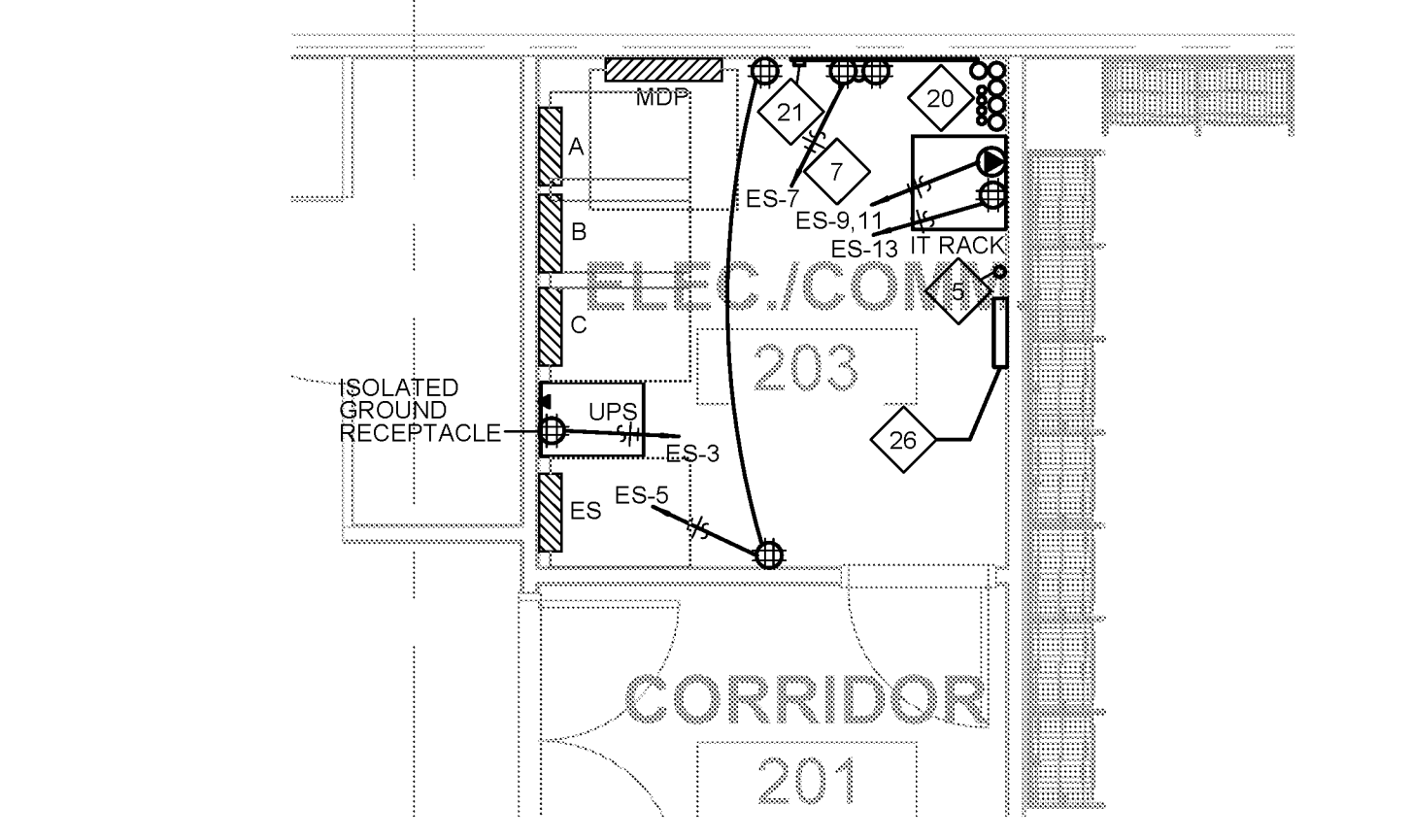
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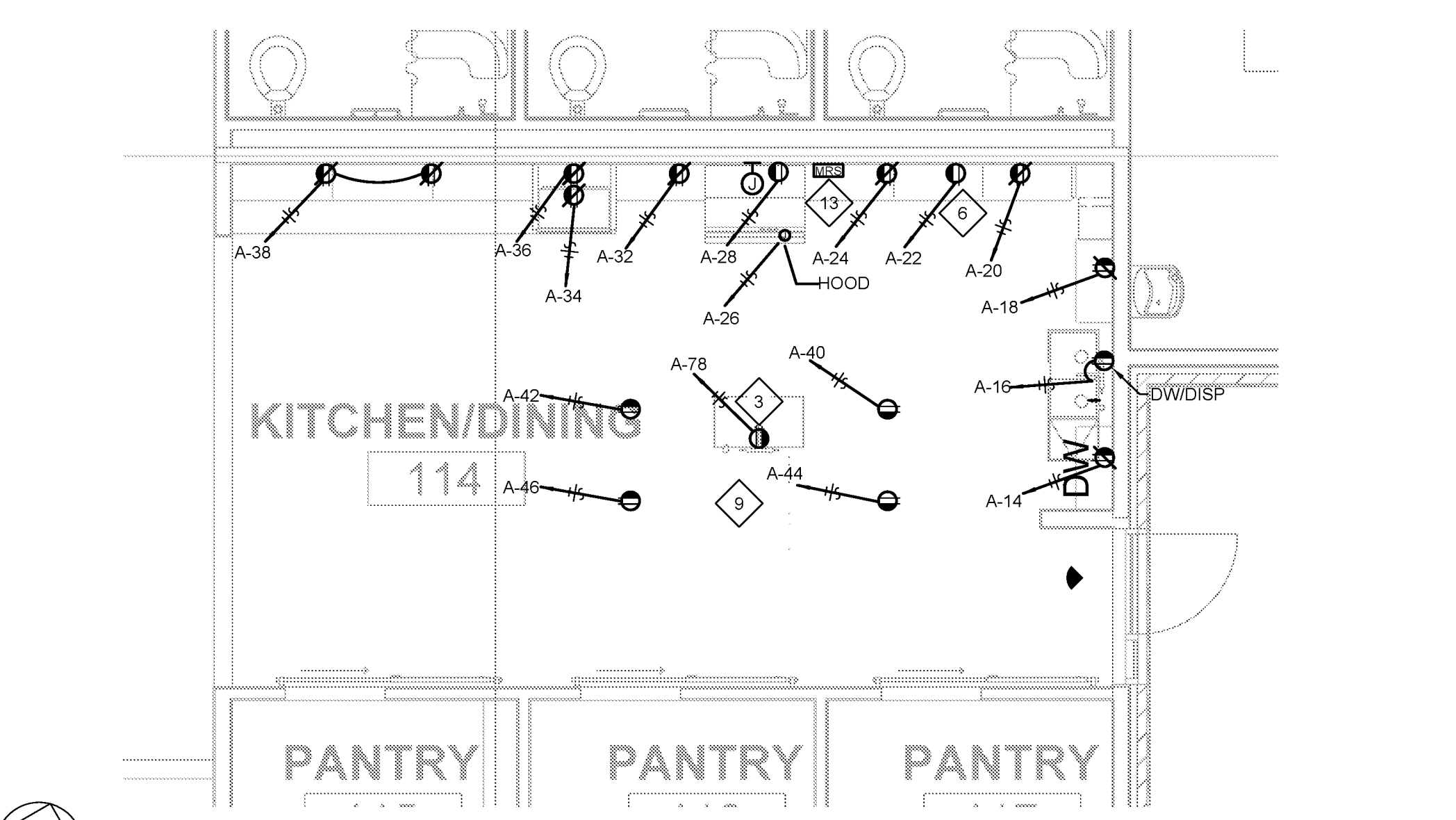
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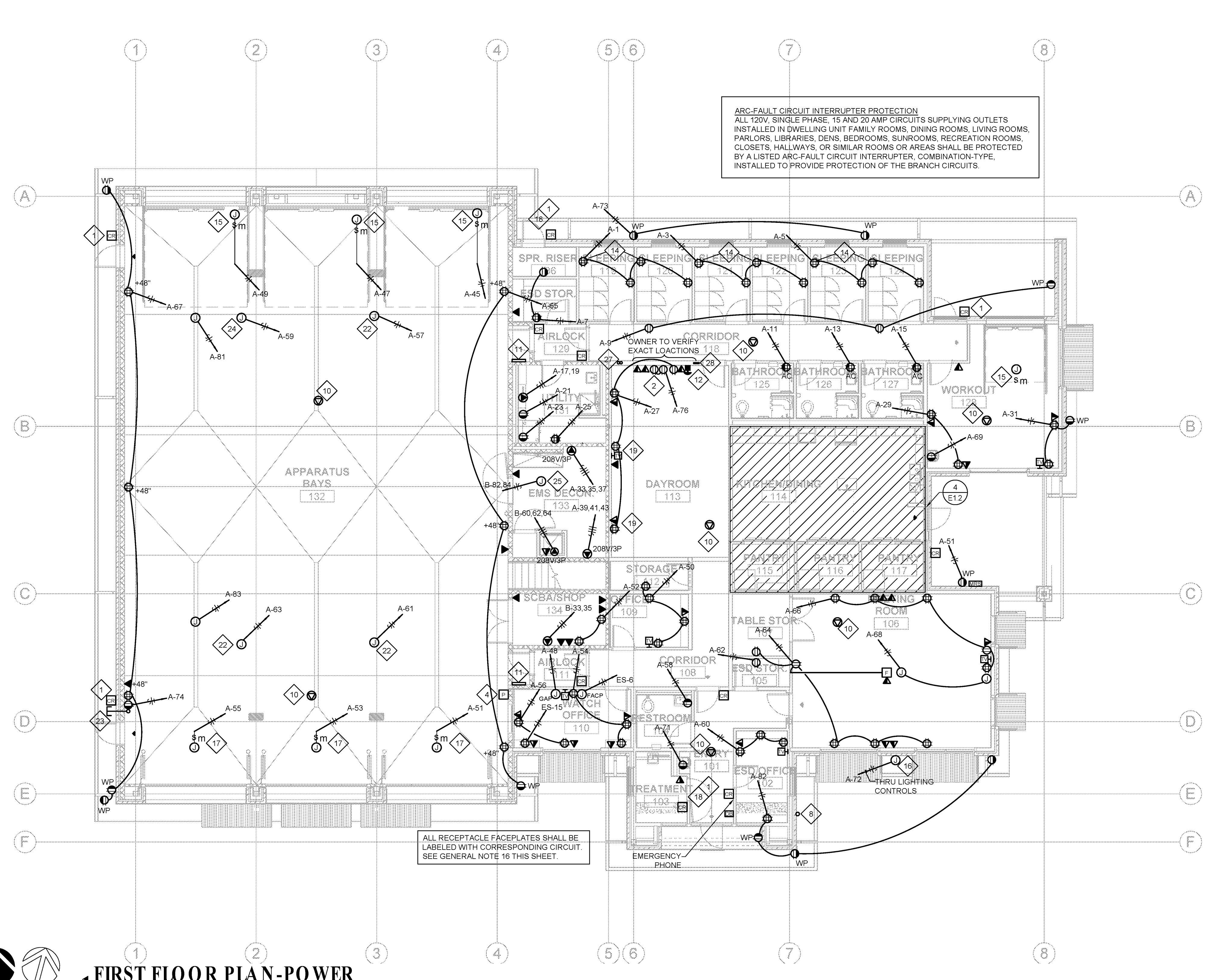
2 SECOND FLOOR PLAN-POWER
1/8" = 1'-0"



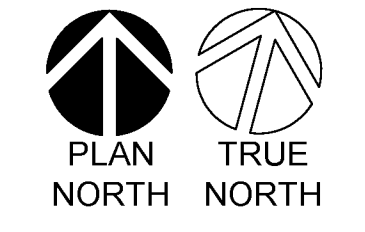
3 ENLARGED FLOOR PLAN-ELECTRICAL ROOM POWER
1/4" = 1'-0"



4 ENLARGED FLOOR PLAN-KITCHEN POWER
1/4" = 1'-0"



1 FIRST FLOOR PLAN-POWER
1/8" = 1'-0"



POWER GENERAL NOTES:

- EXHAUST FANS IN APPARATUS SUPPORT ROOMS TO BE ON 2 HR DIAL TIMER MOUNTED ON WALL.
- EXHAUST FAN IN BUNKER GEAR ROOM TO BE CONTROLLED THROUGH WALL MOUNTED DIAL 2 HR TIMER.
- VERIFY WITH OWNER FOR EXACT LOCATION OF PULL-DOWN ELECTRICAL SPRING REELS IN APPARATUS BAY. SPRING REEL MODEL UNITED EQUIPMENT ACCESSORIES, INC. PART NO. R7BLK3. VERIFY WITH OWNER FOR THE LOCATION OF THE JUNCTION BOX AND REEL, AND ALSO THE PLUG TYPE THAT IS TO BE INSTALLED AT THE TERMINATION POINT OF THE CORD.
- FOR CONTROL OF APPARATUS BAY FANS, SEE SHEET E2.1. EMERGENCY ALARM SCHEMATIC DETAIL. ALERTING CONTRACTOR & SPEAKER ONE-LINE DETAIL. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL RELAY AND TIMERS FOR BOTH EXHAUST FANS. FOR CONTROL OF REMAINING EXHAUST FANS SEE MECHANICAL SHEETS FOR WIRING CIRCUITS SEE ELECTRICAL SHEETS. INTERLOCK WITH GAS HEATERS IN BAY. IF DOORS "OPEN" HEATERS WILL NOT FUNCTION. ONCE DOORS ARE CLOSED, HEATERS WILL RUN IF THERMOSTAT CALLS FOR HEATING.
- CONTRACTOR RESPONSIBLE FOR COMPLETE INSTALLATION OF TELEVISION CABLE INCLUDING, BUT NOT LIMITED TO: WALL RECEPTACLES, CABLE, AND ALL OTHER CONNECTORS REQUIRED FOR COMPLETE INSTALLATION.
- A CERTIFIED NETWORK INSTALLER, MINIMUM 10 YEARS EXPERIENCE, PROVIDED BY CONTRACTOR, SHALL BE RESPONSIBLE FOR PHONE AND DATA INSTALLATION. INSTALLER SHALL PULL ALL CABLE AND MAKE ALL TERMINATIONS FOR DATAPHONE. CONTRACTOR TO PROVIDE AND INSTALL HOME RUNS TO ELECTRICAL ROOM NEAR PHONE BOARD. CONDUCTORS SHALL ALL BE TAGGED, NEATLY BUNDLED, AND HAVE OPTIMUM LENGTHS FOR OWNER TO MAKE CONNECTIONS TO PHONE BOARD. PRE-INSTALLATION MEETINGS REQUIRED WITH OWNER PRIOR TO INSTALLATION.
- CONTRACTOR RESPONSIBLE FOR INSTALLATION OF ALL ELECTRICAL BACK BOXES FOR DATA AND PHONE, AND ALL REQUIRED HOME RUNS FOR DATAPHONE.
- ISOLATED GROUNDING RECEPTACLES (FED FROM ES PANEL) TO BE ORANGE WITH WHITE COVER PLATES.
- PROVIDE 120V POWER TO ALL MOTORIZED DAMPERS. COORDINATE WITH MECHANICAL PLANS FOR LOCATIONS.
- ALL RECEPTACLES CIRCUITED TO PANEL "ES" SHALL BE "ORANGE" FACEPLATES SHALL MATCH ALL OTHER FACEPLATES.
- ALL FEEDS TO GO TO THE COMMUNICATION ROOM (CENTRAL LOCATION) WHICH CAN BE SPLIT AS REQUIRED WITH THE SERVICE PROVIDER.
- GENERATOR TO HAVE ENERNOCK, CALL OUT ON ALARM, CLIMATE SENSOR FOR ON/OFF, TRIP OR SWITCH BURN OUT. WHOLE STATION MUST BE ABLE TO RUN AS A FULL SYSTEM UNDER GENERATOR POWER (PHONE, WIFI, COMPUTER, ALERTING SYSTEM, LIGHTS AND HVAC).
- COORDINATE WITH ALERTING ON SHEET E3.0 FOR ALL CONDUIT AND BACK BOX LOCATIONS REQUIRED THROUGHOUT BUILDING.
- ALL CONDUIT IN ELECTRICAL ROOM TO REMAIN UNPAINTED.
- ALL TIME CLOCKS SHALL BE DIGITAL.
- ALL DEVICES (OUTLETS, SWITCHES, ETC.) TO BE LABELED BY ELECTRICAL CONTRACTORS WITH IDENTIFYING PANEL AND CIRCUIT NUMBERS.

POWER KEYED NOTES:

- CARD READERS TO CONNECT TO OVERHEAD DOORS. (1) WHEN SECTIONAL DOORS ARE IN CLOSED POSITION - HID IS IN UNLOCK POSITION FOR FREE EGRESS/INGRESS. (2) WHEN SECTIONAL DOORS ARE IN OPEN POSITION - HID IS LOCKED.
- ALERTING SYSTEM: 2-MONITORS, CAD CPU & TOUCH SCREEN. COMPUTER NEED 2-RECEPTACLES & 3-DATA. VERIFY HEIGHT OF CAD CPU BEFORE ROUGH-IN. CONFIRM WITH OWNER EXACT REQUIREMENTS FOR ALERTING SYSTEM. SEE DRAWING SHEET A5.1 DETAIL 25.
- PROVIDE PUSH BUTTON SWITCH FOR GARBAGE DISPOSAL. COORDINATE ROUGH-IN LOCATION WITH ARCHITECT.
- LOCATION FOR PRE-EMPTION BUTTON. PROVIDE PELCO #SE-2015-041-X RECTANGULAR PUSH BUTTON COVER ASSEMBLY. ALUM PANEL MOUNT SWITCH AND LED WITH CIRCUIT MODULE. THE FOLLOWING EQUIPMENT NEED TO BE PROVIDED:
 - TIME RELEASE LATCHING RELAY.
 - 24 DC POWER SUPPLY.
 - 15 AMP BREAKER IN SERVICE BOX.
 - BUTTON IN FIRE STATION.
 PLEASE COORDINATE WITH THE TRAFFIC OPERATION MANAGER DURING INSTALLATION OF THE PRE-EMPTION DEVICES.
- EXTEND 1" COMM 203 TO TOP OF WALL FOR ANTENNA.
- OUTLET FOR HOOD ANSUL PANEL MOUNTED IN VERY TOP OF UPPER CABINET.
- CONTRACTOR TO INSTALL CAT6 PATCH PANELS, 2-POST RACKS, LADDER RACKS, CITY TO PROVIDE INFO ON PANELS FOR HID READERS.
- (2) ANTENNA VERIZON, UHF 8 700MHZ W/CONDUIT & PULL STRING TO COMM RM 113.
- CONTRACTOR SHALL VERIFY WITH OWNER ALL MOUNTING HEIGHTS IN KITCHEN PRIOR TO INSTALLATION.
- J-BOX FOR WIRELESS ACCESS POINT. PROVIDE ETHERNET AT THIS LOCATION.
- MOUNTING LOCATION OF BAY DOOR CONTROLS.
- MANUAL RESET BUTTON - INSTALL A PUSH BUTTON MANUAL RESET FOR GAS SOLENOID VALVE. SOLENOID VALVE IS NORMALLY CLOSED UNTIL SIGNAL IS RECEIVED FROM DISPATCH. UPON RECEIVING SIGNAL FROM DISPATCH SOLENOID VALVE OPENS AND REMAINS OPEN UNTIL MANUAL RESET BUTTON IS PUSHED OR DISPATCH TURNS OFF SIGNAL. MANUAL RESET BUTTON SHALL BE LABELED "MANUAL GAS RESET" IN THE EVENT OF A POWER FAILURE TO THE BUILDING THE GAS SOLENOID VALVE SHALL CLOSE. GAS SOLENOID VALVE AND MANUAL RESET BUTTON SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR AND INSTALLED BY PLUMBING CONTRACTOR.
- REFER TO MRS AND SOLENOID SEQUENCE OF OPERATION, INCLUDED ON THIS SHEET.
- VERIFY OUTLET MOUNTING HEIGHT WITH OWNER PRIOR TO ROUGH-IN. RECEPTACLES IN SLEEPING ROOMS TO HAVE USB PORT POWER.
- COORDINATE POWER LOCATION FOR OVERHEAD DOOR WITH WALL MOUNTED JACK-SHAFT DOOR MOTOR.

- J-BOX FOR BACK LIT SIGNAGE. FIELD COORDINATE MOUNTING HEIGHT BEFORE ROUGH-IN.
- COORDINATE RECESSED MOUNTING LOCATION OF MAIN CONTROL BOXES WITH OWNER PRIOR TO ROUGH-IN.
- CARD READER MOUNTED 42" AFF. DEDICATED PLAQUE TO BE MOUNTED AT 5'. SEE ARCHITECTURAL DRAWINGS.
- LOCATION FOR WALL MOUNTED TV SCREEN. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A RECESSED DUAL-GANG BOX FOR POWER AND TELECOMMUNICATIONS CONNECTIONS. COORDINATE EXACT LOCATION, MOUNTING HEIGHT AND ADDITIONAL INSTALLATION REQUIREMENTS WITH ARCHITECT AND CLIENT PRIOR TO INSTALLATION.
- COMMUNICATION CONDUIT TO BE ROUTED UP THRU SLAB AND TERMINATED IN COMMUNICATION ROOM 113.
- GROUNDING BAT AT TELEPHONE BOARD. SEE SINGLE POINT GROUNDING DETAIL SHEET E2.1.
- VERIFY OUTLET MOUNTING HEIGHT AND LOCATION FOR CORD REEL WITH OWNER PRIOR TO ROUGH-IN. SEE GENERAL NOTE 3.
- 1" CONDUIT PULL STRING FROM 6" ABOVE SLAB, DOWN BENEATH SLAB AND STUB UP 6" OUT FROM BUILDING ALLOW 12" AFG, INSTALL WEATHER PROOF CAP.
- J-BOX WITH PULL STRING FOR FUTURE CORD REEL.
- COORDINATE EXACT LOCATION OF AIR COMPRESSOR WITH OWNER PRIOR TO WORK.
- ACCESS CONTROL CARD READER PANEL. PROVIDE DED POWER FROM PANEL A.
- ATS CONDUITS ROUTED UP IN WALL TO ATTIC SPACE AND THEN OVER TO ELEC/COMM ROOM.

MRS & SOLENOID SEQUENCE OF OPERATION

ELECTRICAL CONTRACTOR TO PROVIDE. PLUMBING CONTRACTOR TO INSTALL TWO SOLENOID SHUT-OFF VALVES IN GAS LINE SUPPLYING THE GAS RANGE AND OUTDOOR BBQ GRILLE. VALVES SHALL BE EQUAL TO SNAP-TITE MODEL #335V-BNA-AM51. 120VAC NORMALLY CLOSED SHUT-OFF VALVE. INSTALLED BY PLUMBING CONTRACTOR. WIRING CONNECTION BY ELECTRICAL CONTRACTOR TYPICAL FOR 2 MRS AND SOLENOID VALVES. ONE EACH FOR OVEN/RANGE AND EACH FOR OUTDOOR GRILLE.

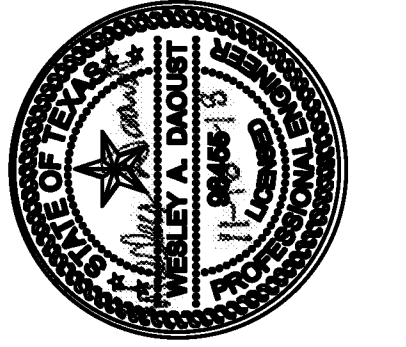
ELECTRICAL CONTRACTOR SHALL MAKE ALL ELECTRICAL CONNECTIONS REQUIRED FOR A FULLY OPERATIONAL SYSTEM. INSTALLATION AND OPERATION SHALL BE AS FOLLOWS:

- A PUSH BUTTON MANUAL RESET SWITCH (MRS) SHALL BE INSTALLED AT KITCHEN COUNTER AT LOCATION SHOWN ON THE DRAWINGS.
- A PUSH BUTTON MANUAL RESET SWITCH (MRS) SHALL BE INSTALLED AT PATIO AT LOCATION SHOWN ON THE DRAWINGS.
- A PUSH BUTTON SWITCH SHALL BE EQUAL TO KJD17-SERIES PUSH-BUTTON STYLE ELECTROMAGNETIC SWITCH MANUFACTURED BY LAMB INDUSTRIES, INC. SUPPLIED BY ELECTRICAL CONTRACTOR.
- SOLENOID VALVE SHALL REMAIN CLOSED UNTIL MANUAL RESET (GREEN) BUTTON IS PUSHED. VALVE SHALL REMAIN OPEN UNLESS SIGNAL IS RECEIVED FROM DISPATCH, OR, IN ANOTHER EMERGENCY, THE RED BUTTON IS PUSHED.
- UPON RECEIPT OF SIGNAL FROM DISPATCH, SOLENOID VALVE SHALL AUTOMATICALLY CLOSE AND REMAIN CLOSED UNTIL GREEN MANUAL RESET SWITCH BUTTON IS PUSHED.
- LABEL SWITCH AS "MANUAL GAS RESET". IF POWER FAILURE OCCURS, SOLENOID VALVE SHALL CLOSE AND SHALL REMAIN CLOSED UNTIL POWER IS RESTORED AND MANUAL RESET BUTTON IS PUSHED.
- PUSH BUTTON (MRS) SWITCH AND ELECTRICAL WIRING SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL SUPPLY SOLENOID VALVES AND PLUMBING CONTRACTOR SHALL INSTALL.

ARC-FAULT CIRCUIT INTERRUPTER PROTECTION
ALL 120V, SINGLE PHASE, 15 AND 20 AMP CIRCUITS SUPPLYING OUTLETS INSTALLED IN DWELLING UNIT FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER, COMBINATION-TYPE, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUITS.

ALL RECEPTACLE FACEPLATES SHALL BE LABELED WITH CORRESPONDING CIRCUIT. SEE GENERAL NOTE 16 THIS SHEET.

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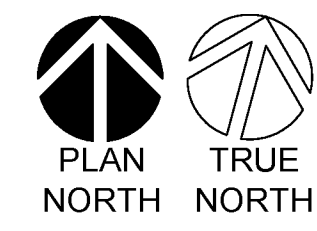
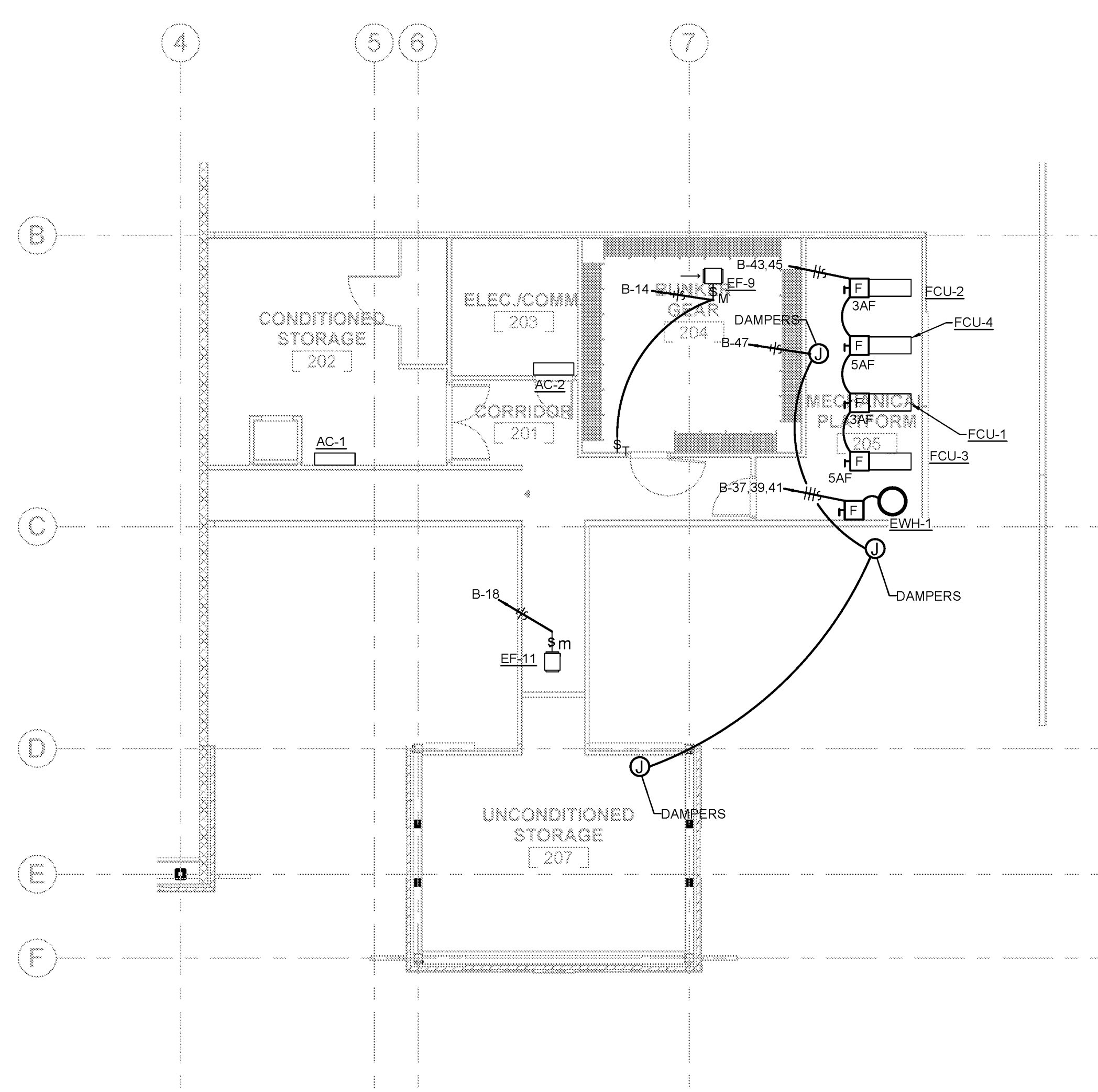
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BRW PROJECT NUMBER 217079.00

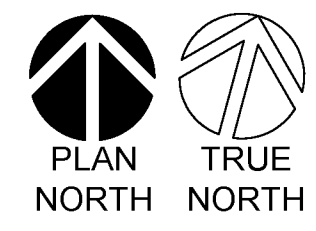
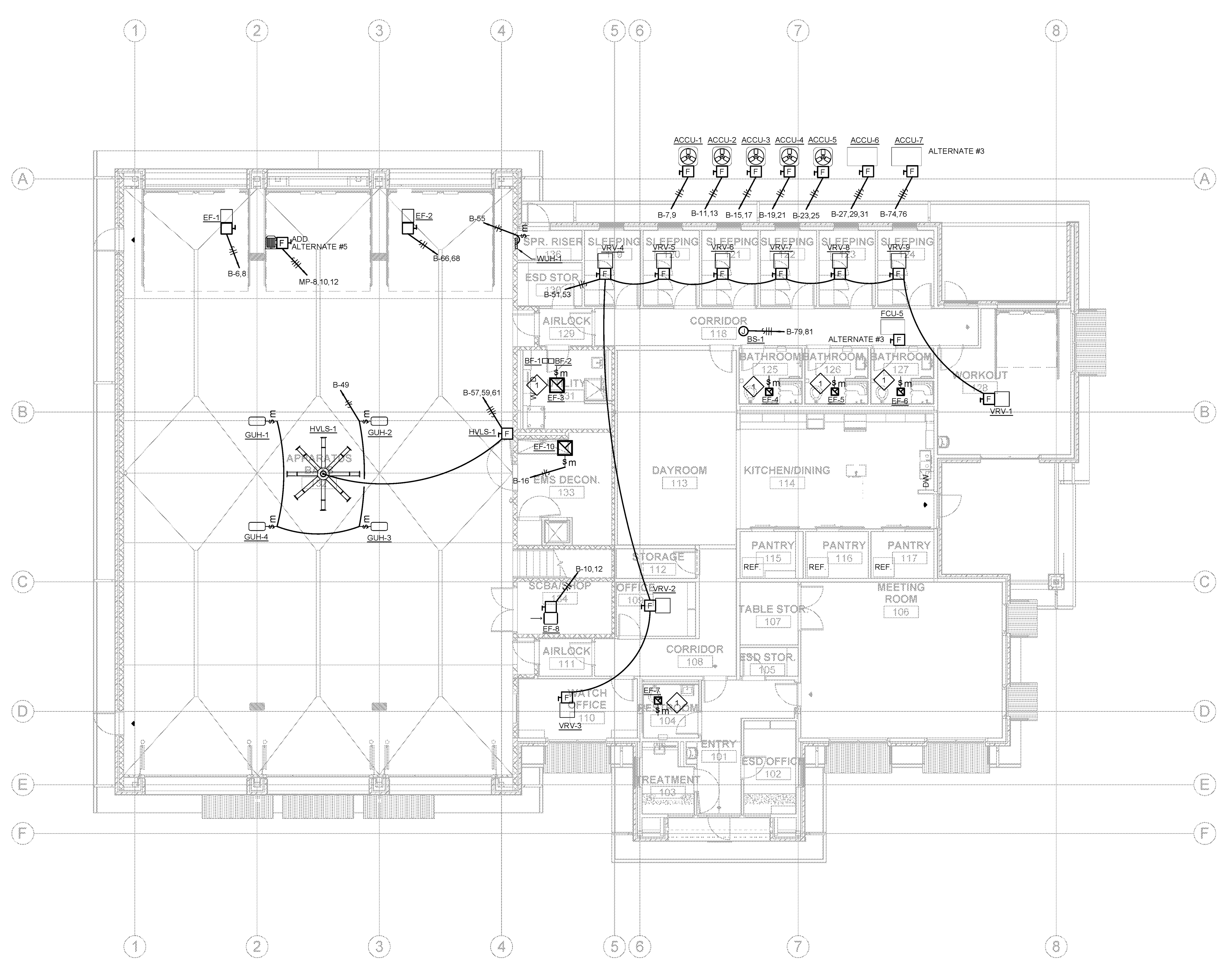
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GEORGETOWN FIRE STATION No. 6
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GEORGETOWN, TX, 78626

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E1.3



2 SECOND FLOOR PLAN-POWER
1/8" = 1'-0"

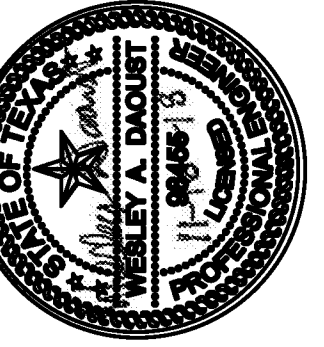


1 FIRST FLOOR PLAN-POWER
1/8" = 1'-0"

POWER KEYED NOTES:

- CONTROL THIS FAN WITH LIGHT FIXTURES IN THIS ROOM.
- PROVIDE 120V CONNECTION FOR GSSP CONNECTION. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.

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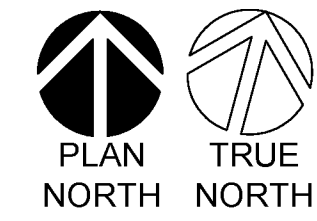
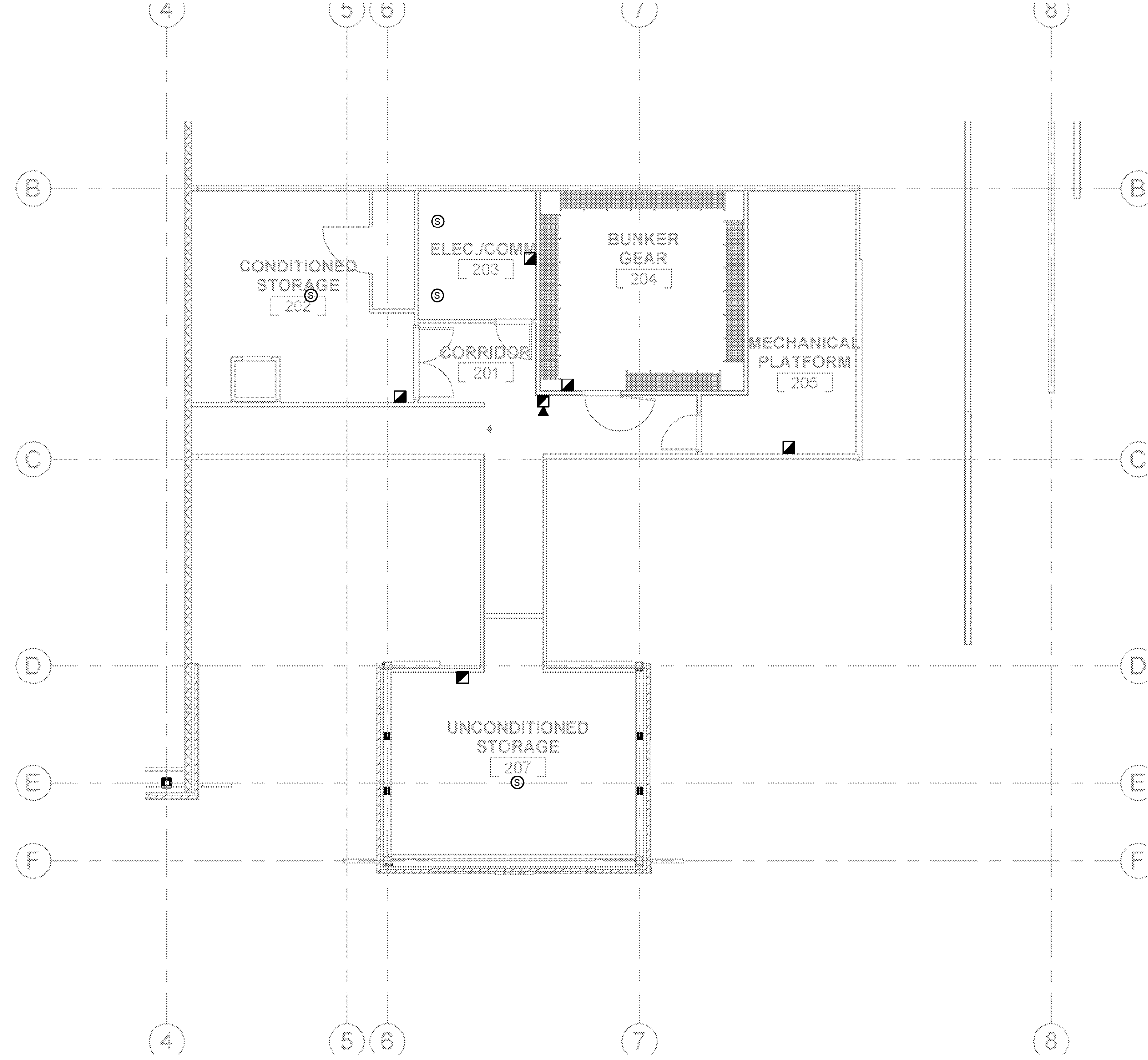
1555 Woodbridge Park, Part 1, D
Houston, TX 77079
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BRW PROJECT NUMBER 217079.00

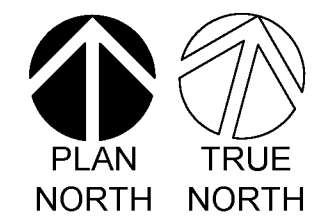
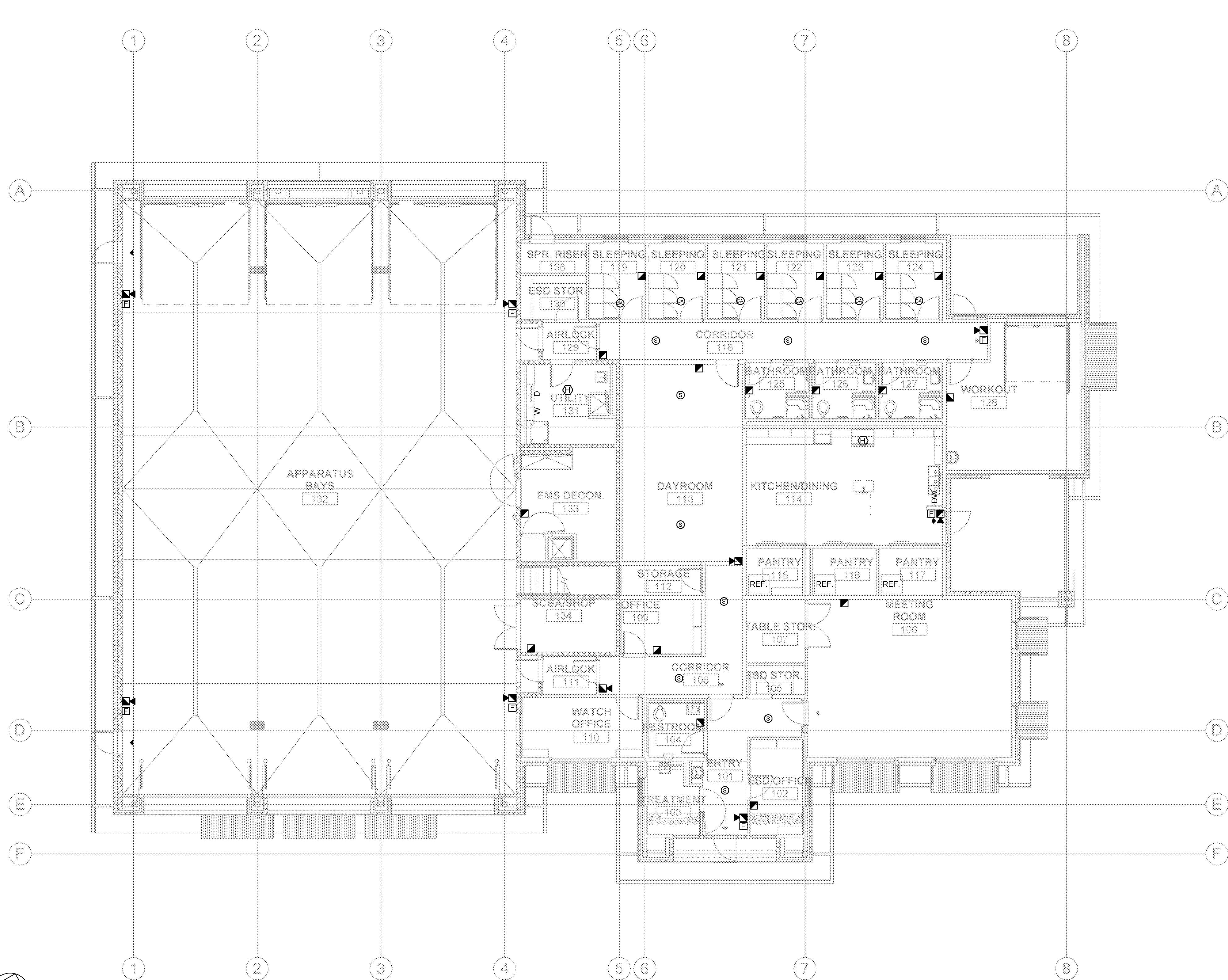
CITY OF GEORGETOWN
GEORGETOWN FIRE STATION No. 6
6700 R.M. 2338
GEORGETOWN, TX, 78626

NO.	REVISION	DATE
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E1.4
FLOOR PLAN
MECHANICAL POWER



2 SECOND FLOOR PLAN-FIRE ALARM
1/8" = 1'-0"



1 FIRST FLOOR PLAN-FIRE ALARM
1/8" = 1'-0"

FIRE ALARM SYSTEM		(ALL OF THESE MAY NOT APPEAR ON DRAWINGS)	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
[PCP]	FIRE ALARM CONTROL PANEL	[H]	EXTERIOR HORN
[MPS]	FIRE ALARM MANUAL PULL STATION	[EMM]	FIRE ALARM CONTROL MODULE
[SL15CD]	STROBE LIGHT 15CD	[FAMM]	FIRE ALARM MONITOR MODULE
[SL75CD]	STROBE LIGHT 75CD	[MD]	MAGNETIC DOOR HOLDER
[SD]	SMOKE DETECTOR	[FAR]	FIRE ALARM REMOTE LED
[DDIR]	DUCT DETECTOR IN R/A	[TS]	TAMPER SWITCH
[DDISIA]	DUCT DETECTOR IN S/A	[DACA]	DIGITAL ALARM COMMUNICATION
[HD]	HEAT DETECTOR	[WFS]	WATER FLOW SWITCH
[HSL]	HORN/STROBE LIGHT	[RPS]	REMOTE POWER SUPPLY
[FACW]	FIRE ALARM WIRING CABINET	[FAP]	FIRE ALARM ANNUNCIATOR PANEL
[RS]	RELAY SWITCH	[RPD]	RING PULL DEVICE
[C]	120V AUDIBLE COMBINATION SMOKE/CO ALARM W/ BATTERY		

SCOPE OF WORK:
FIRE ALARM SYSTEM.
IT IS THE INTENTION OF THIS PROJECT TO PROVIDE A COMPLETE ANALOG ADDRESSABLE, ELECTRICALLY SUPERVISED FIRE ALARM SYSTEM TO BE INSTALLED, CONNECTED AND LEFT IN FIRST CLASS OPERATING CONDITION. THE ENTIRE INSTALLATION SHALL CONFORM TO ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES. IN PARTICULAR, NFPA 72, NFPA 101 LIFE SAFETY CODE, ADA AND THE NATIONAL ELECTRICAL CODE. ALL EQUIPMENT SHALL BE THE PRODUCT OF A SINGLE MANUFACTURER AND BEAR THE U.L. AND F.M. LABEL. PRODUCTS SHALL BE THOSE MANUFACTURED BY SIMPLEX.

SYSTEM OPERATION:
THE SYSTEM SPECIFIED IS A SUPERVISED, ADDRESSABLE FIRE ALARM SYSTEM. UPON ACTIVATION OF AN ALARM INITIATING DEVICE, THE FOLLOWING SHALL OCCUR:
01 LIGHT THE APPROPRIATE LED AND INDICATE THE LOCATION AT THE FIRE ALARM CONTROL PANEL.
02 SOUND THE ALARM TONE AND ACTIVATE THE ADA STROBE LIGHTS IN THE BUILDING.
03 SHUT DOWN AIR HANDLING UNITS IN THE ZONE IN WHICH THE ALARM HAS OCCURRED.
04 SHUT FIRE/SMOKE DAMPERS IN ZONE WHICH ALARM HAS OCCURRED.
05 SHUT DOORS IN THE ZONE IN ALARM.
06 CLOSE ALL MAGNETICALLY-HELD SMOKE DOORS.

THE SIGNALS MAY BE SILENCED BUT SHALL RESOUND ON A SUBSEQUENT ALARM. THE PANEL SHALL NOT BE CAPABLE OF RESET UNTIL THE INITIATING DEVICES HAVE BEEN CLEARED. ATTEMPTS TO RESET THE SYSTEM AFTER AN ALARM OR TEST SHALL NOT RESOUND THE SIGNALS.

THE SYSTEM SHALL BE PROVIDED WITH 24 HOUR BATTERY STANDBY AND AUTOMATIC CHARGER. REFER TO SPECIFICATIONS FOR COMPLETE REQUIREMENTS OF THE FIRE ALARM SYSTEM.

ALL WIRING FOR FIRE ALARM SYSTEM SHALL BE PER NFPA 72, NEC, LOCAL CODES AND MANUFACTURERS RECOMMENDATIONS. ALL WIRING SHALL RUN IN THE CONDUIT.

ACCEPTABLE MANUFACTURER FOR FIRE ALARM SYSTEM SHALL BE SILENT KNIGHT, EDWARDS, AND/OR FCI GAMEWELL.

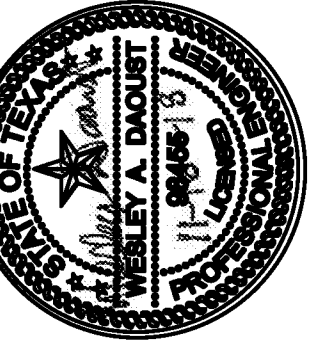
FIRE ALARM GENERAL NOTES:

- FIRE ALARM SYSTEM, ALL COMPONENTS AND ALL ACCESSORIES TO COMPLY WITH ALL APPLICABLE LOCAL, STATE AND NFPA CODES, STANDARDS AND REGULATIONS.
- SUBMIT TO FIRE MARSHALL FOR PLAN REVIEW FOR FINAL APPROVAL OF LAYOUT AND DESIGN.
- PROVIDE PULL STATIONS, SMOKE DETECTORS, STROBES, HORN STROBES, ETC., FOR A COMPLETE FUNCTIONAL FIRE ALARM SYSTEM. SYSTEM DESIGN PER LOCAL, STATE AND NFPA STANDARDS AND REGULATIONS.
- FIRE ALARM SYSTEM SHALL BE DESIGNED AND INSPECTED BY LICENSED FIRE ALARM SPECIALIST. INSPECTION SHALL INCLUDE A 24 HOUR BATTERY TEST AND TOTAL BUILDING FIRE ALARM FINAL INSPECTION AND A BUILDING FIRE FINAL INSPECTION.
- INSTALLATION OF THE FIRE PROTECTION SYSTEM REQUIRES THAT ALL POWER UNDER HOOD APPLIANCES/EQUIPMENT AND/OR OUTLETS AUTOMATICALLY SHUT OFF IN THE EVENT OF SYSTEM ACTUATION. THE SYSTEMS ARE PROVIDED WITH A SWITCH FOR THIS PURPOSE. THE ELECTRICAL CONTRACTOR IS TO PROVIDE ALL LABOR AND MATERIALS INCLUDING SHUNT TRIP BREAKERS, CONTRACTORS, INTERCONNECTING WIRING, ETC. TO INSURE PROPER SYSTEM OPERATIONS.
- COORDINATE FIRE ALARM INSTALLATION WITH MECHANICAL, ELECTRICAL AND PLUMBING DISCIPLINES PRIOR TO CONSTRUCTION.

FIRE ALARM KEYED NOTES:

- PROVIDE RING - PULL DEVICE, RECESS MOUNTED FOR HOOD SUPPRESSION SYSTEM TO ACTIVATE.
- ANSUL HOOD PANEL RECESSED IN TOP OF UPPER CABINET.

BROWN REYNOLDS WATFORD ARCHITECTS
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SUITE 6000 HOUSTON, TEXAS 77045
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Registering No. 18334

BROWN REYNOLDS WATFORD ARCHITECTS, INC.
DATE 11/16/2018
DRAWN BY KM
CHECKED BY JF
BRW PROJECT NUMBER 217079-00

CITY OF GEORGETOWN
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E1.5

NOTES:

- SEE ARCHITECTURAL SPECIFICATIONS FOR ALL ROUGH-IN AND INSTALLATION DETAILS.
- US DIGITAL DESIGNS DOES NOT SUPPLY BACK BOXES, CONDUITS, OR MOUNTING FASTENERS.
- US DIGITAL DESIGNS FIRE STATION ALERTING PLANS ARE DIAGRAMMATIC AND FOR QUOTING PURPOSES ONLY. DRAWING MAY NOT BE TO SCALE.
- PHOENIX G2 SYSTEM IS ABLE TO SIGNAL OWNER-FURNISHED SYSTEMS, (EXHAUST, LIGHT, GAS SHUT OFF, ETC.) BUT USDD DOES NOT SUPPLY THESE SYSTEMS AND CANNOT WARRANT OR SUPPORT ANY OF THEIR PERFORMANCE BEYOND THE TRANSMISSION OF RELAY SIGNAL TO THEM.

INSTALLER NOTES:

- INSTALLER TO INCLUDE CONNECTION BETWEEN ATX STATION CONTROLLER'S LINE-LEVEL AUDIO OUTPUT AND (EXISTING) OWNER-FURNISHED HOUSE AUDIO SYSTEM (AMP). (IF APPLICABLE)
- INSTALLER TO PROVIDE 1 CAT5/6 CABLE FROM ATX CONTROLLER TO CUSTOMER EXISTING STATION RADIO AND NETWORK SYSTEM FOR BACKUP.
- INSTALLER TO PROVIDE CONNECTION BETWEEN (EXISTING) OWNER-FURNISHED STATION LIGHTING CONTROL SYSTEM AND RELAY OUTPUT FROM ATX STATION CONTROLLER OR I/O REMOTE. (IF APPLICABLE)
- INSTALLER TO VERIFY WALL AND CEILING TYPE TO DETERMINE NEED FOR FLUSH OR SURFACE MOUNT INSTALLATION OF EQUIPMENT SPECIFIED.

ALL CONDUITS, CABLING/WIRE, BACKBOXES, ETC., SHALL BE INSTALLED WITHIN WALLS AND CEILINGS. SURFACE MOUNTED SHALL NOT BE ACCEPTED, WITH THE EXCEPTION OF COMMUNICATION ROOM ONLY.

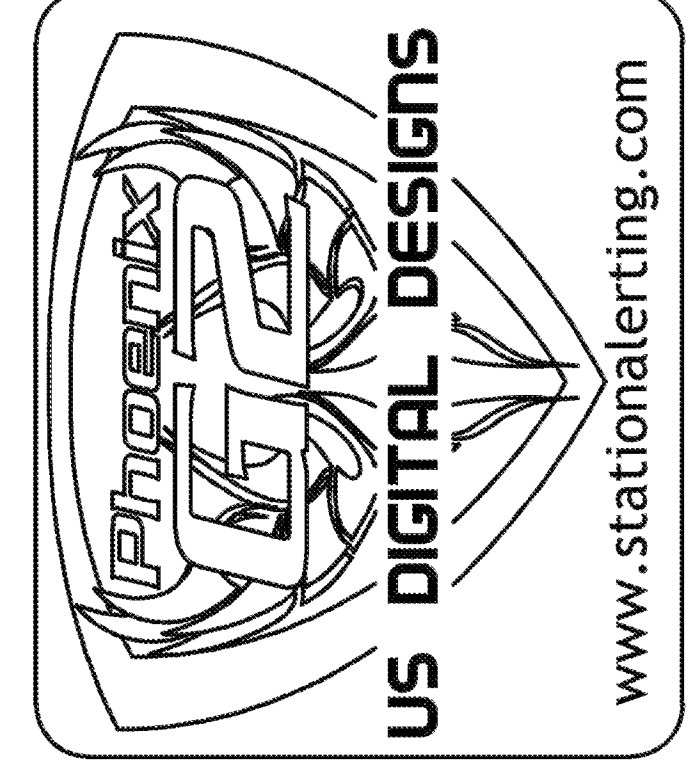
REFER TO SPECIFICATION SECTION 274212 ALERTING SYSTEM FOR ADDITIONAL INFORMATION.

ELECTRICAL CONTRACTOR RESPONSIBLE FOR PROVIDING AND INSTALLATION OF ALL BACKBOXES, AND REQUIRED CONDUITS WITH PULL STRING FOR SYSTEMS INDICATED ON THIS SHEET. SEPARATELY, ELECTRICAL CONTRACTORS SCOPE CONTAINS CONTROL OF AUTOMATED ALERTING DEVICES, INDICATED ON DRAWING SHEET E2.2, AND EXPLAINED ON MECHANICAL, PLUMBING, AND ELECTRICAL SHEETS.

OWNER RESPONSIBLE FOR INSTALLATION OF ALL CABLING, US DIGITAL DESIGN DEVICES INDICATED IN THE COUNT KEY SHOWN ON THIS SHEET, 7' TALL FLOOR MOUNTED RACK, ETC., FOR A COMPLETE AND FULLY FUNCTIONAL ALERTING SYSTEM.

ELECTRICAL CONTRACTOR PROVIDE BACK BOXES, ETC.		US DIGITAL DESIGNS	
	Count	Name	
NO	1	EXTERNAL AMPLIFIER (60-100W)	
NO	1	G2 ATX STATION CONTROLLER	
BACK BOX FOR GYP CEILINGS ONLY	14	G2 LED SPEAKER (G2-LVL-HC-70)	
BACK BOX FOR WIREWAY	4	G2 MESSAGE SIGN EXTENDED (GSE)	
BACK BOX FOR WIREWAY	4	G2 MESSAGE SIGN STANDARD (GSS)	
NO	2	G2 M5 ADAPTOR PLATE DOUBLE (ADP)	
NO	5	G2 STROBE LIGHT	
RACK MOUNT	1	G2 UPS (G2-UPS)	
NO	2	MS-MNT-ART-L (MSML)	
SINGLE-GANG BACK BOX	2	PUSH BUTTON (BLACK)	
SINGLE-GANG BACK BOX	2	PUSH BUTTON (RED)	
4-GANG WALL BACK BOX	7	ROOM REMOTE 2 (RR-2)	
GYP CEILINGS ONLY = 4-GANG BACK BOX	14	SPEAKER FLUSH MOUNT	
MOUNT ABOVE CEILING	8	SPEAKER WEATHER-PROOF	

SYMBOL	DESCRIPTION
[ATX]	G2 ATX STATION CONTROLLER
[RR2]	G2 ROOM REMOTE 2
[SR]	G2 SIGN REMOTE
[UPS]	G2-UNINTERRUPTIBLE POWER SUPPLY
[I/O]	G2 I/O REMOTE
[PB]	OEM PUSH BUTTON PB-B (BLACK) PB-R (RED)
[STR]	OEM STROBE LIGHT
[AMP]	OEM AMPLIFIER
[S]	G2 LED SPEAKER, FLUSH MOUNT
[S]	G2 LED SPEAKER, METAL BOX
[S]	SPEAKER, WEATHER-PROOF
[S]	SPEAKER, FLUSH MOUNT
[GSS]	G2 MESSAGE SIGN
[MSML]	ARTICULATING ARM MOUNT FOR GSS
[ADP]	ADAPTOR PLATE FOR MSML/GSS



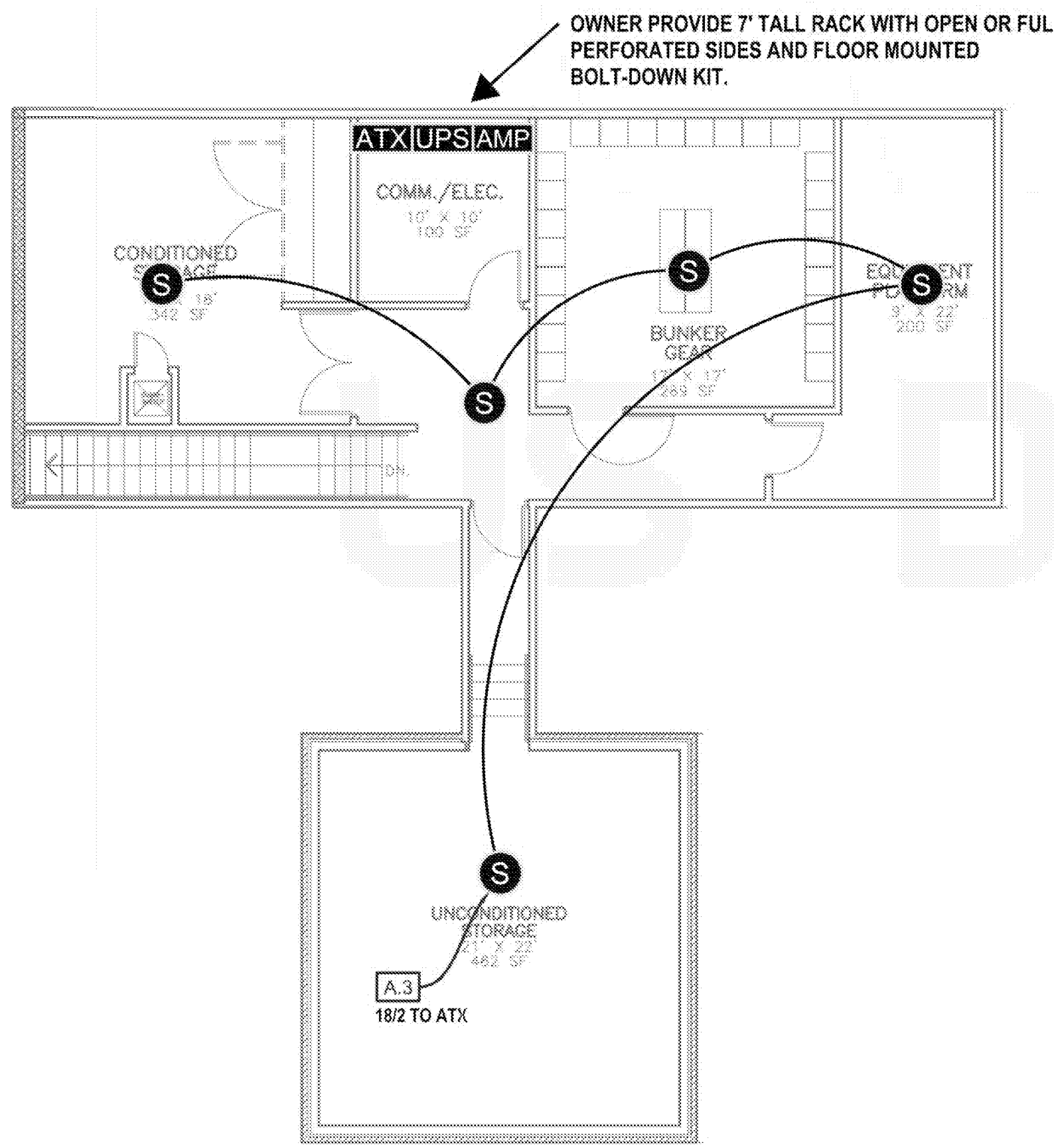
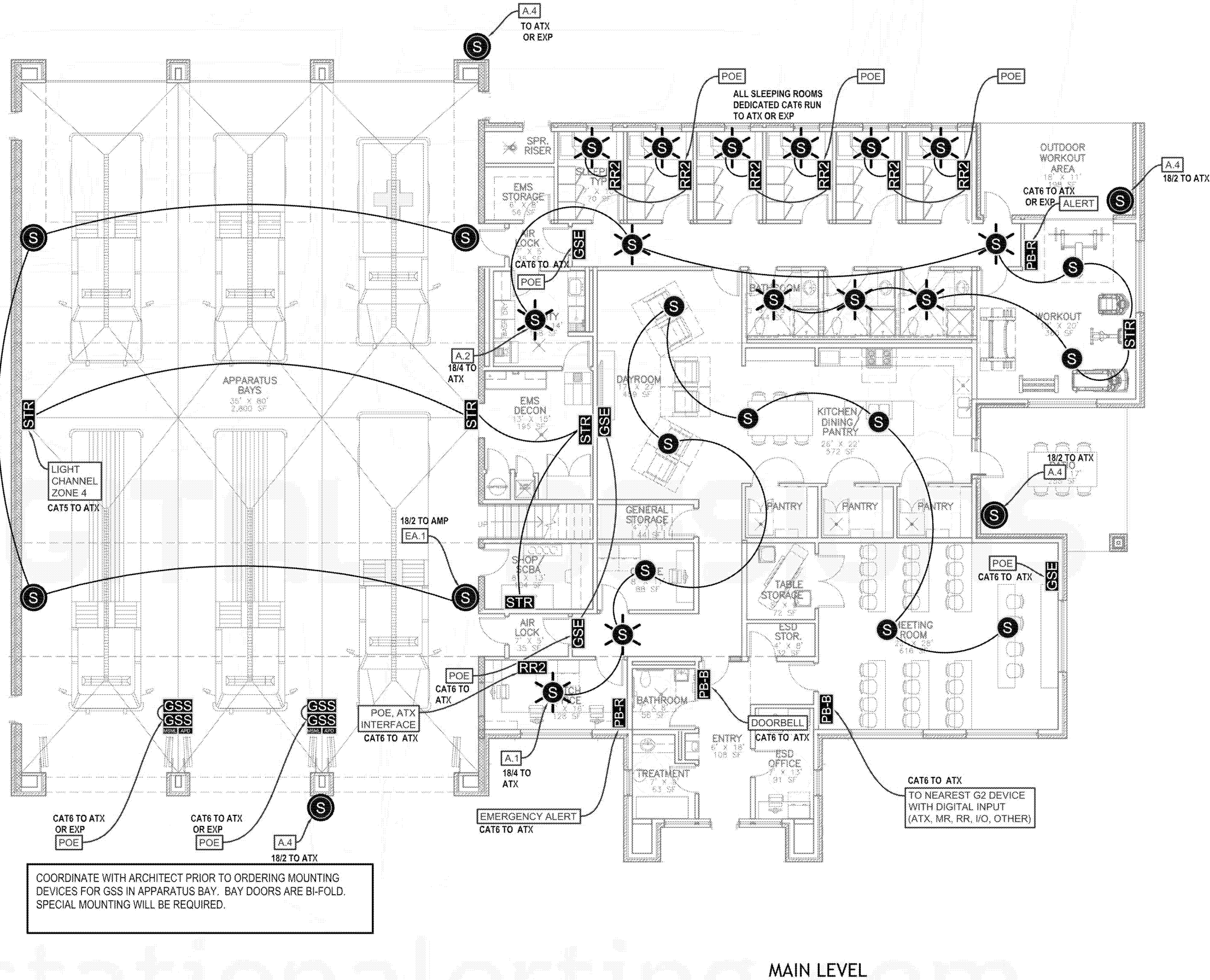
GEORGETOWN FIRE DEPARTMENT, TX

FIRE STATION 6

USDD.GTX.FS6.FSA.DWG

23-Oct-2018

project	building	filename	date



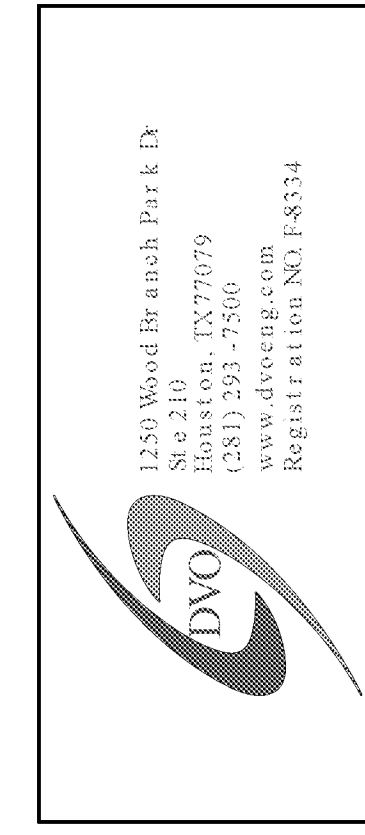
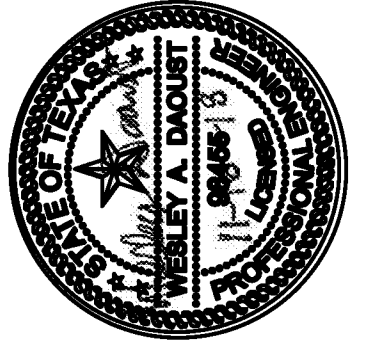
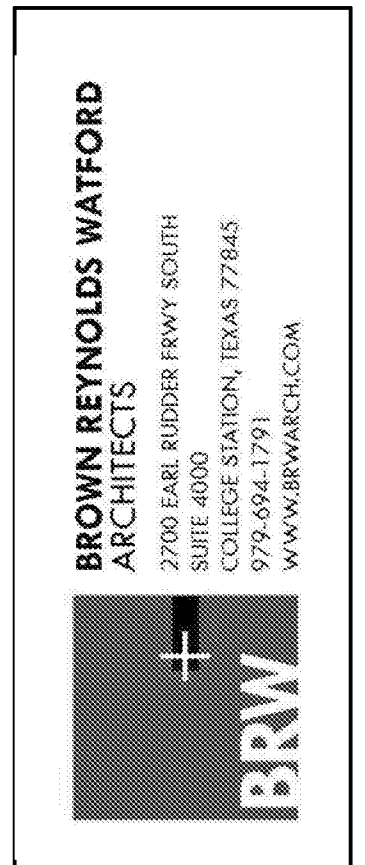
UPPER LEVEL

MAIN LEVEL

POE = USDD device connects to G2 ATX Power-Over-Ethernet (POE) port 1 thru 8 or G2 Expansion Module(s) ports 1 thru 12
 A.n = G2 ATX Amplifier 1...n
 EA.n = G2 External Amplifier 1...n

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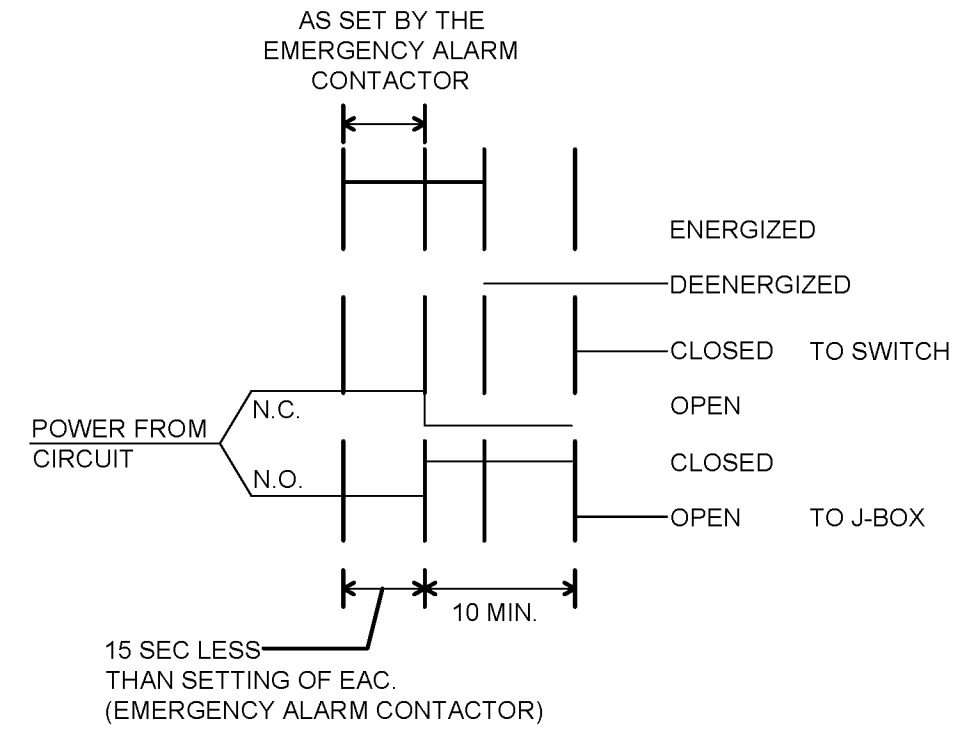
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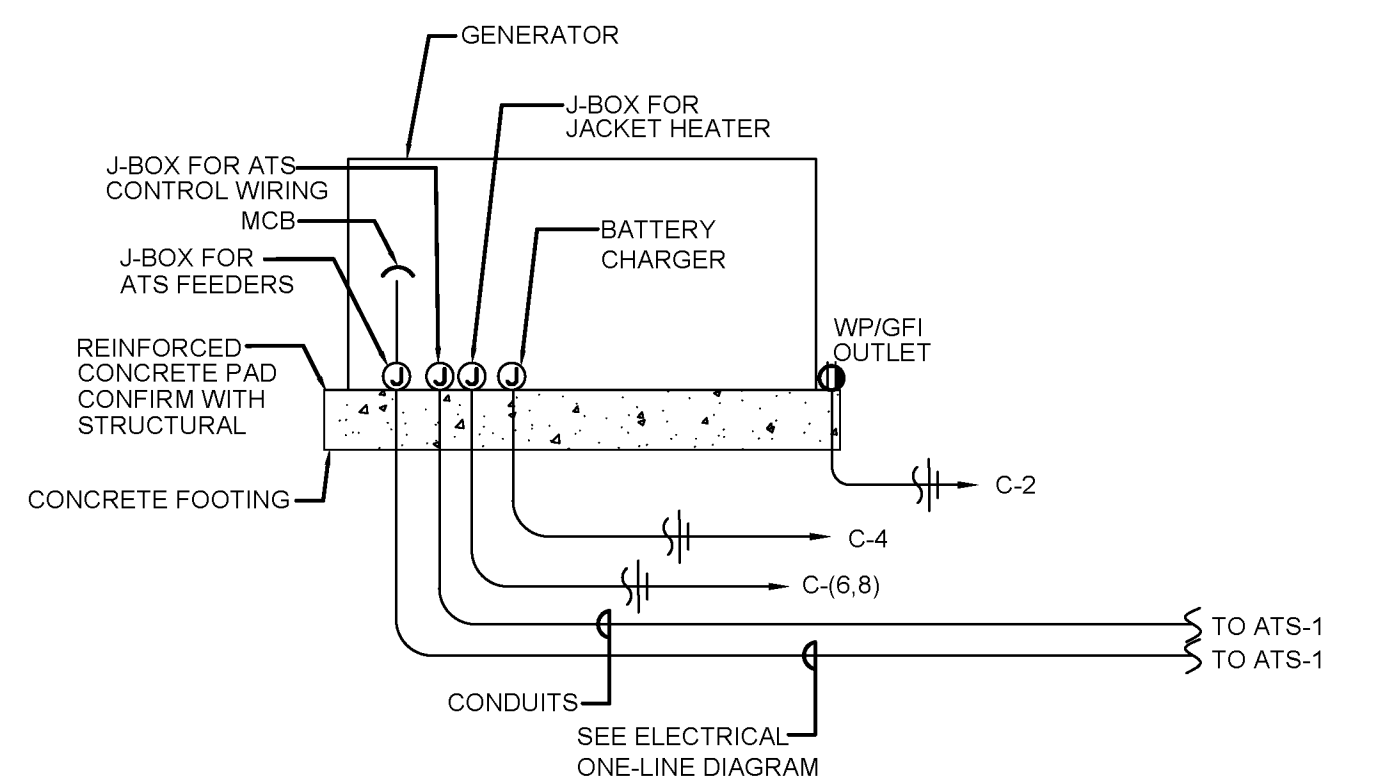
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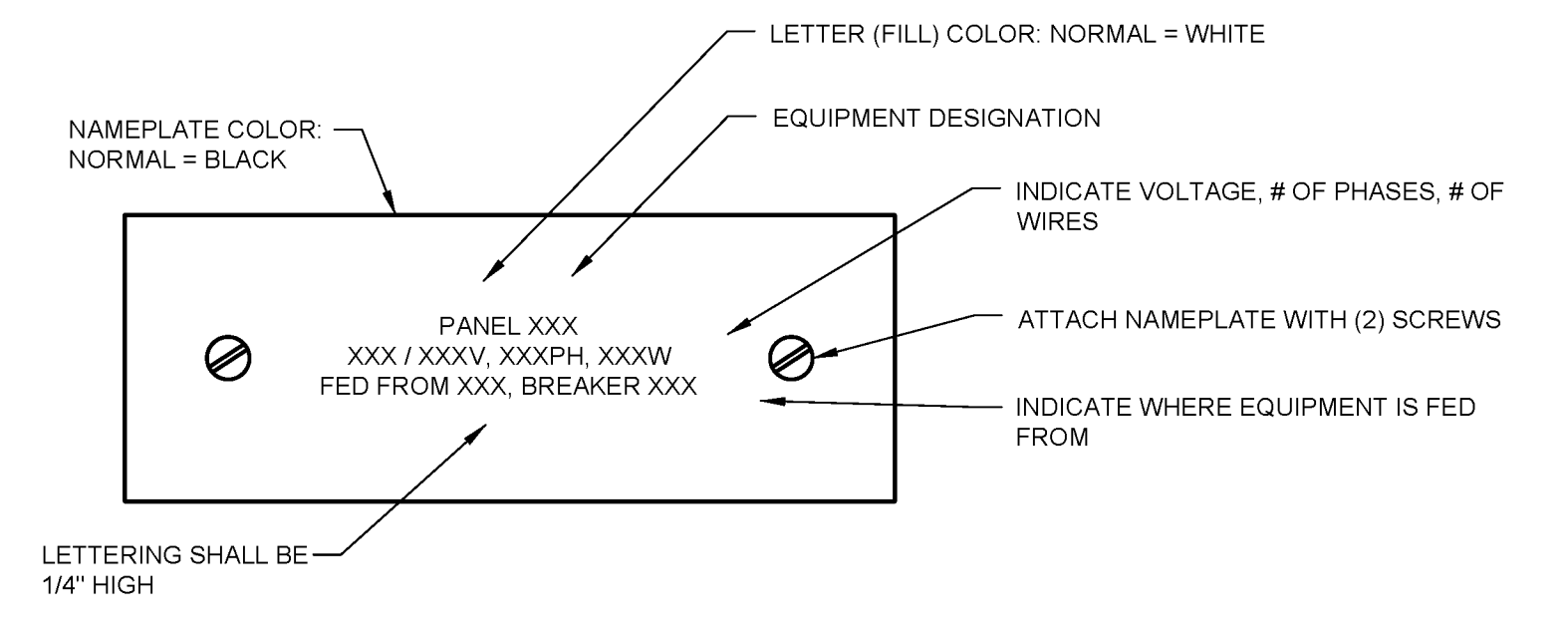
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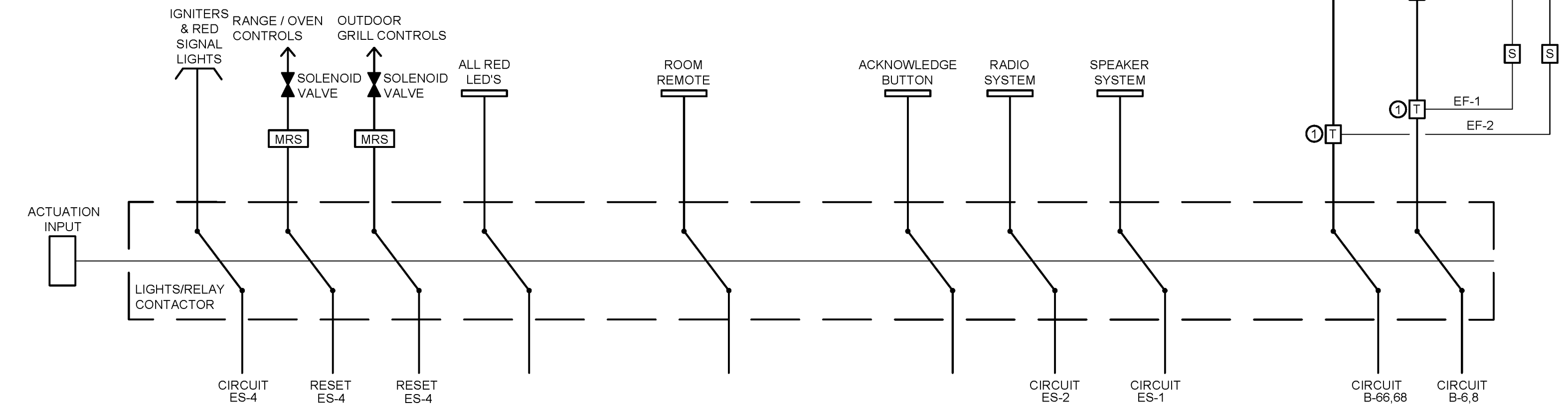
02 FAN TIMER FOR EXHAUST FANS EF-1 & EF-2
NOT TO SCALE



03 GENERATOR DETAIL

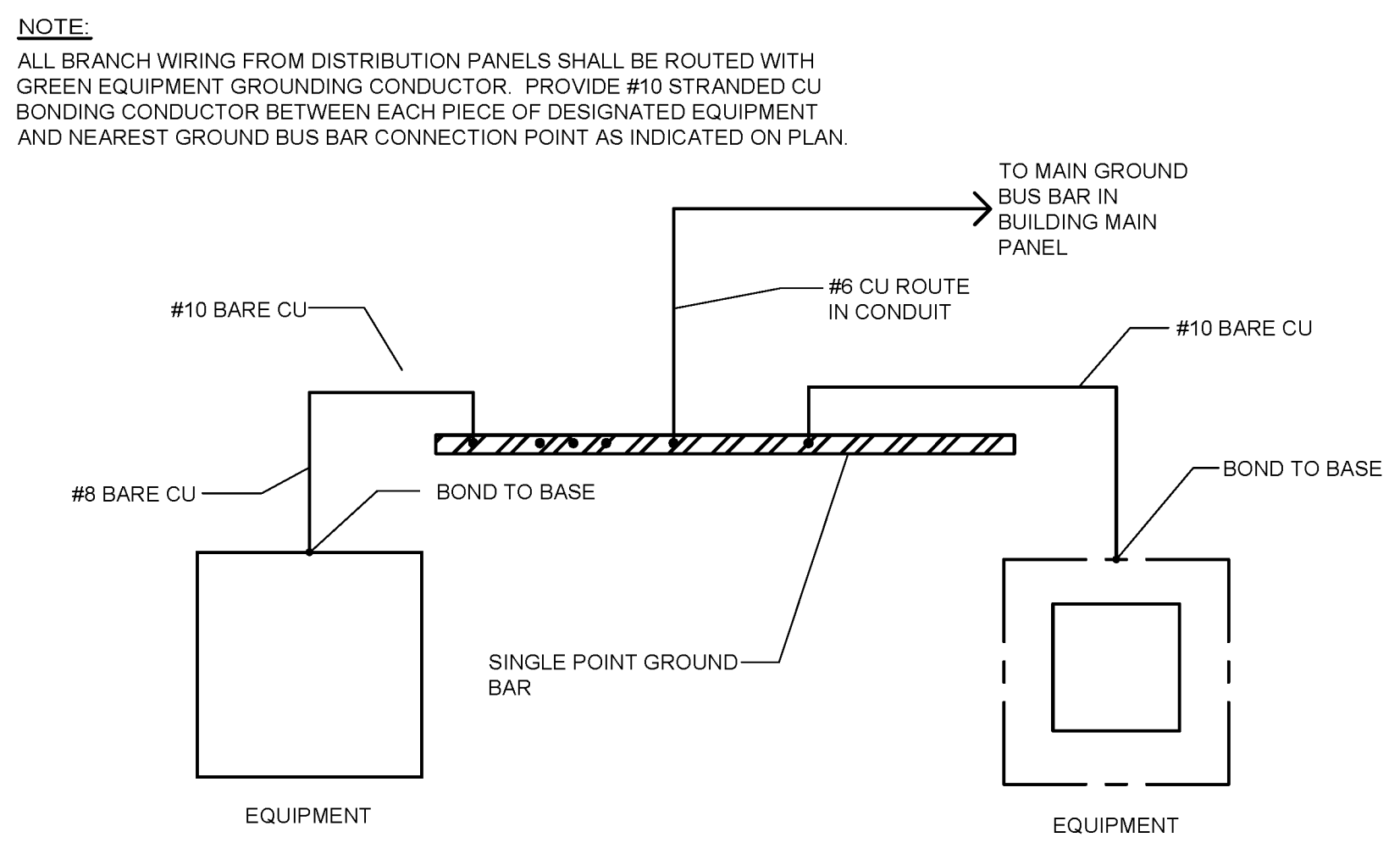


04 PANELBOARD NAMEPLATE DETAIL
NOT TO SCALE



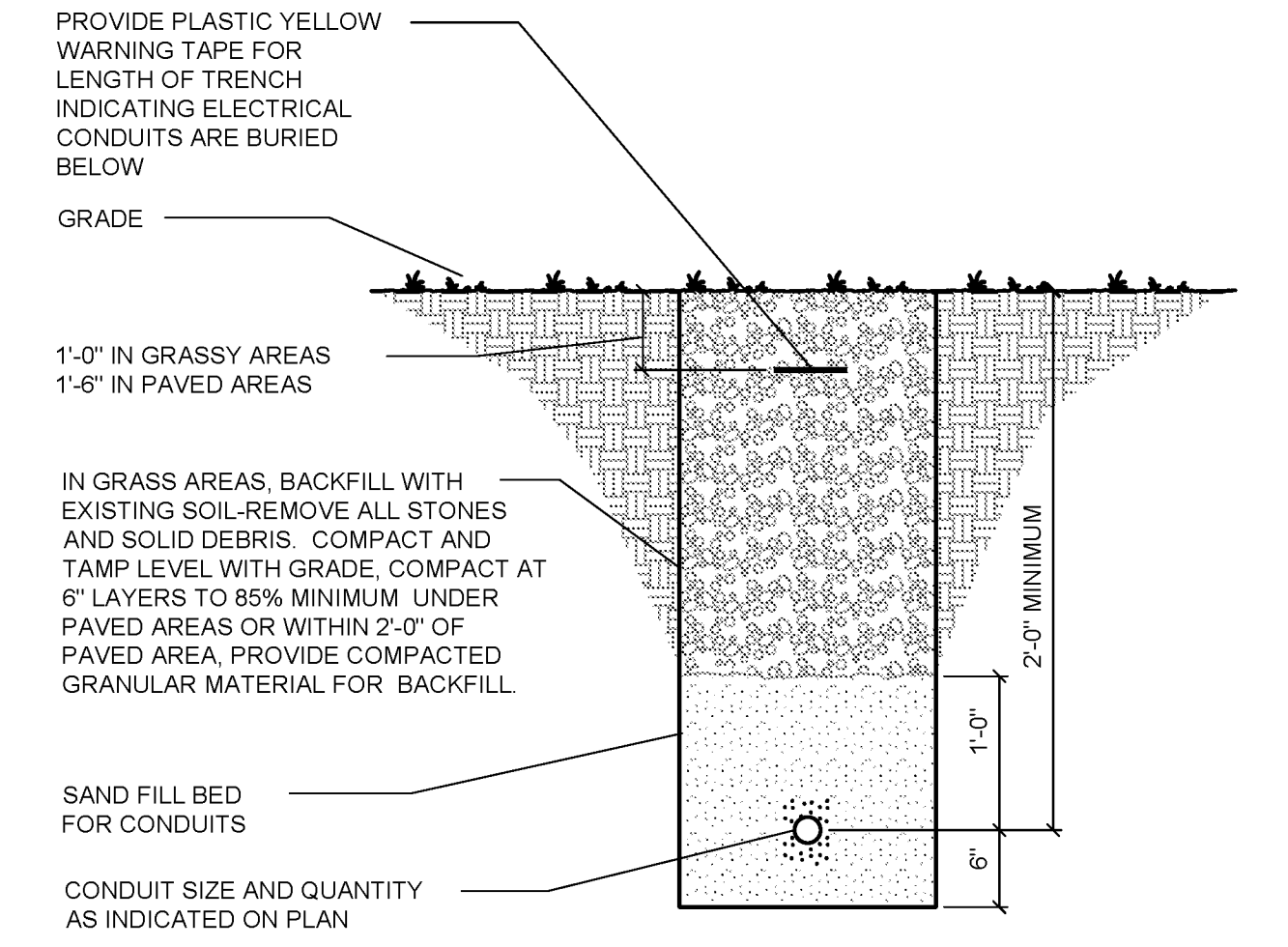
- KEYED NOTES:**
- ON-DELAY / OFF-DELAY FAN TIMER. SEE FAN TIMER DETAIL FOR SEQUENCE OF OPERATION.
 - WALL SWITCHES
 - JUNCTION BOX
 - FAN TIMER ON DELAY / OFF DELAY
- NOTES:**
- SEE KEYED NOTE 10 SHEET E1.1 FOR SEQUENCE OF OPERATION ON GAS SOLENOID VALVE.
 - CONTRACTOR TO PROVIDE AND INSTALL CONTACTOR, FAN TIMER, RELAY CONTROLS TO ENSURE A FULLY FUNCTIONAL SYSTEM.
 - SEE SPEAKER ONE LINE AND FAN TIMER DETAIL THIS SHEET FOR APPARATUS BAY EXHAUST FAN SEQUENCE OF OPERATION AND CONTROLS.
 - SEE DRAWING SHEET E1.6.
 - COORDINATE WITH MECHANICAL, PLUMBING, AND ALERTING SYSTEM SUB CONTRACTORS.

05 EMERGENCY ALARM SCHEMATIC FOR ALERTING SYSTEM
NOT TO SCALE

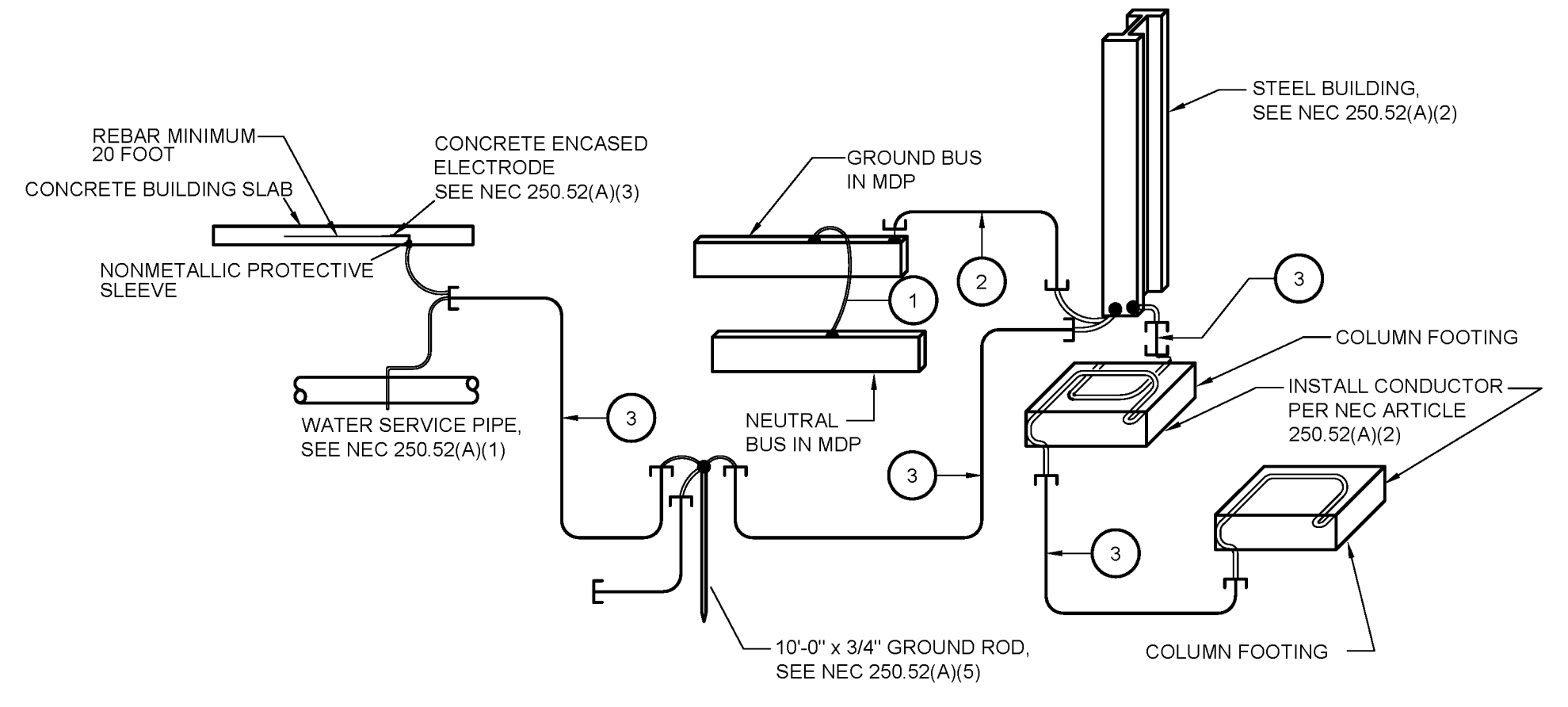


NOTE:
ALL BRANCH WIRING FROM DISTRIBUTION PANELS SHALL BE ROUTED WITH GREEN EQUIPMENT GROUNDING CONDUCTOR. PROVIDE #10 STRANDED CU BONDING CONDUCTOR BETWEEN EACH PIECE OF DESIGNATED EQUIPMENT AND NEAREST GROUND BUS BAR CONNECTION POINT AS INDICATED ON PLAN.

06 SINGLE POINT GROUNDING DIAGRAM
NOT TO SCALE

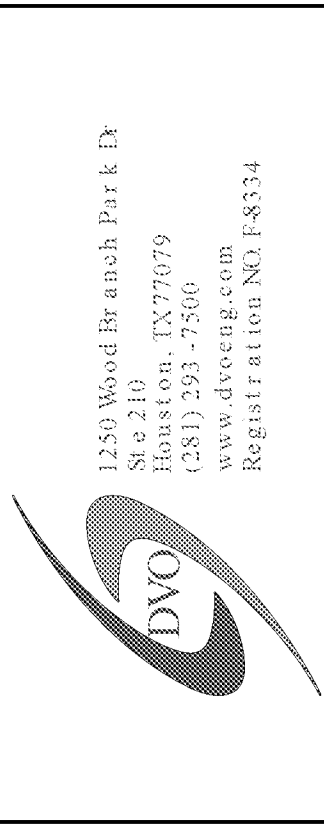
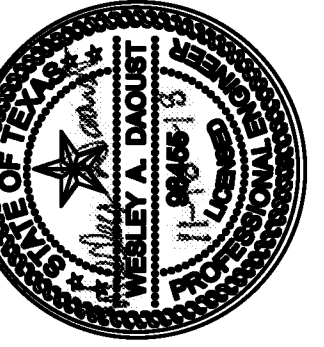


07 CONDUIT TRENCH DETAIL
NOT TO SCALE



- KEYED NOTES:**
- BARE COPPER MAIN BONDING JUMPER PER NEC 250.28.
 - BARE COPPER GROUNDING ELECTRODE CONDUCTOR PER NEC 250.66.
 - BARE COPPER GROUNDING ELECTRODE BONDING JUMPER PER NEC 250.53.
- GENERAL NOTES:**
- ALL GROUNDING ELECTRODES AS DESCRIBED IN THE NATIONAL ELECTRICAL CODE, 2014 EDITION, SECTIONS 250.52(A)(1) THROUGH (A)(6), THAT ARE PRESENT AT EACH BUILDING OR STRUCTURE SERVED SHALL BE BONDED TOGETHER TO FORM THE GROUNDING ELECTRODE SYSTEM. GROUNDING ELECTRODES AS DESCRIBED IN THE NATIONAL ELECTRICAL CODE, 2014 EDITION, SECTIONS 250.52(A)(1), (A)(2), (A)(3), AND (A)(7), SHALL BE SUPPLEMENTED WITH A ROD ELECTRODE AS DESCRIBED IN SECTION 250.52(A)(5)(b) WHERE NO OTHER GROUNDING ELECTRODE IS PRESENT A ROD ELECTRODE SHALL BE PERMITTED TO BE THE SOLE GROUNDING ELECTRODE.
- EXCEPTION: CONCRETE-ENCASED ELECTRODES OF EXISTING BUILDINGS OR STRUCTURES SHALL NOT BE REQUIRED TO BE PART OF THE GROUNDING ELECTRODE SYSTEM WHERE THE STEEL REINFORCED BARS OR RODS ARE NOT ACCESSIBLE FOR USE WITHOUT DISTURBING THE CONCRETE.

08 GROUNDING ELECTRODE SYSTEM DETAIL
NOT TO SCALE



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