

VILLA MARIA GAS STATION

1919 WEST VILLA MARIA ROAD
BRYAN, TX 77807

CODES TO BE USED :-

- 1- 2021 INTERNATIONAL BUILDING CODE (IBC)
- 2- 2021 INTERNATIONAL PLUMBING CODE (IPC)
- 3- 2021 INTERNATIONAL FUEL GAS CODE (IFGC)
- 4- 2021 INTERNATIONAL FIRE CODE (IFC)
- 5- 2021 INTERNATIONAL MECHANICAL CODE (IMC)
- 6- 2020 INTERNATIONAL ELECTRIC CODE (NEC)
- 7- 2012 TEXAS ACCESSIBILITY STANDARDS (TAS)
- 8- 2018 INTERNATIONAL ENERGY CONSERVATION CODE (IECC) WITH BRYAN'S AMENDMENTS TO THE ADOPTED CODES.



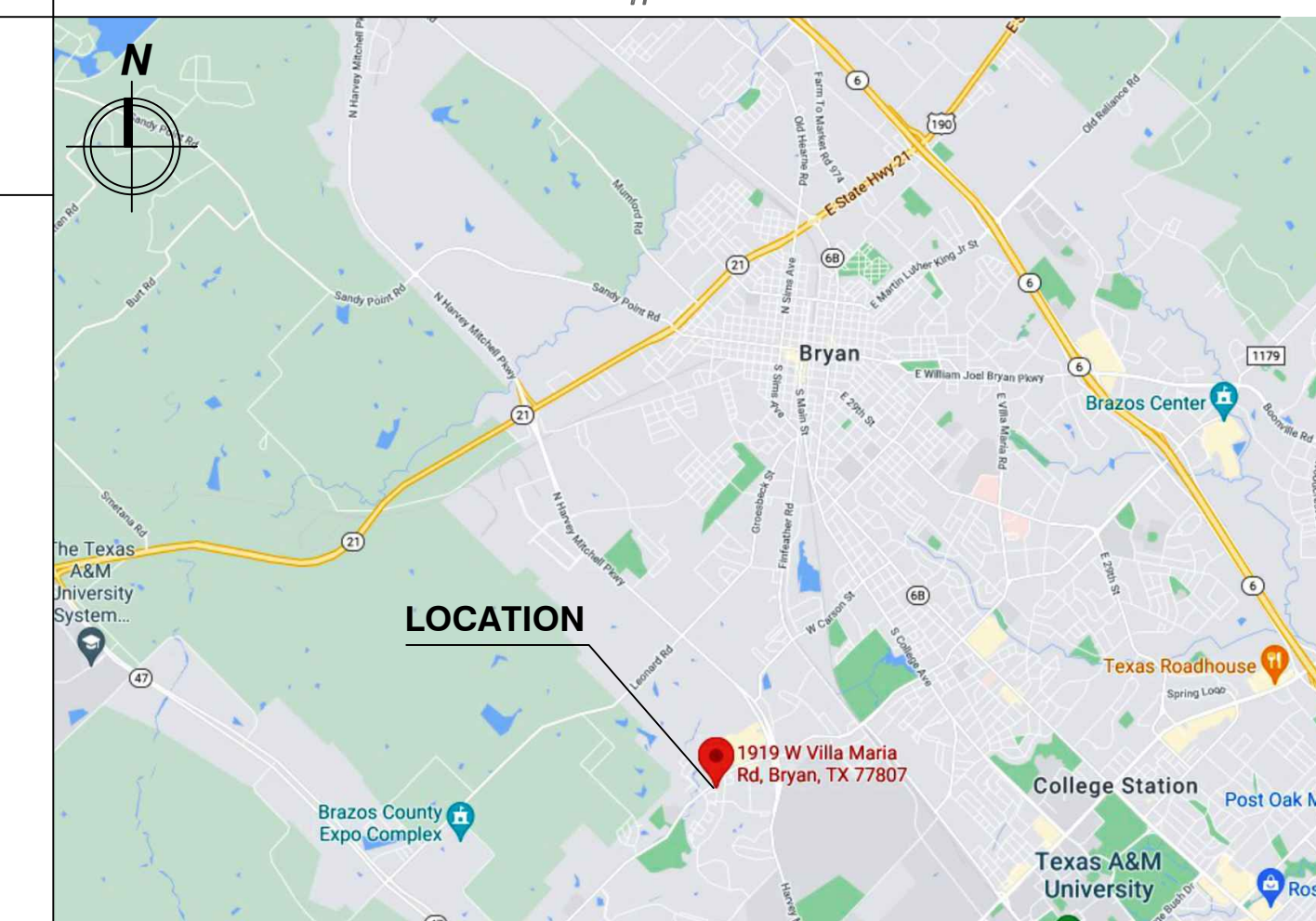
NOTE :-

ANY CHANGE TO THE PLANS DURING CONSTRUCTION NEED TO BE APPROVED BY THE ARCHITECT AND/OR ENGINEER OF RECORD AND THE CITY.

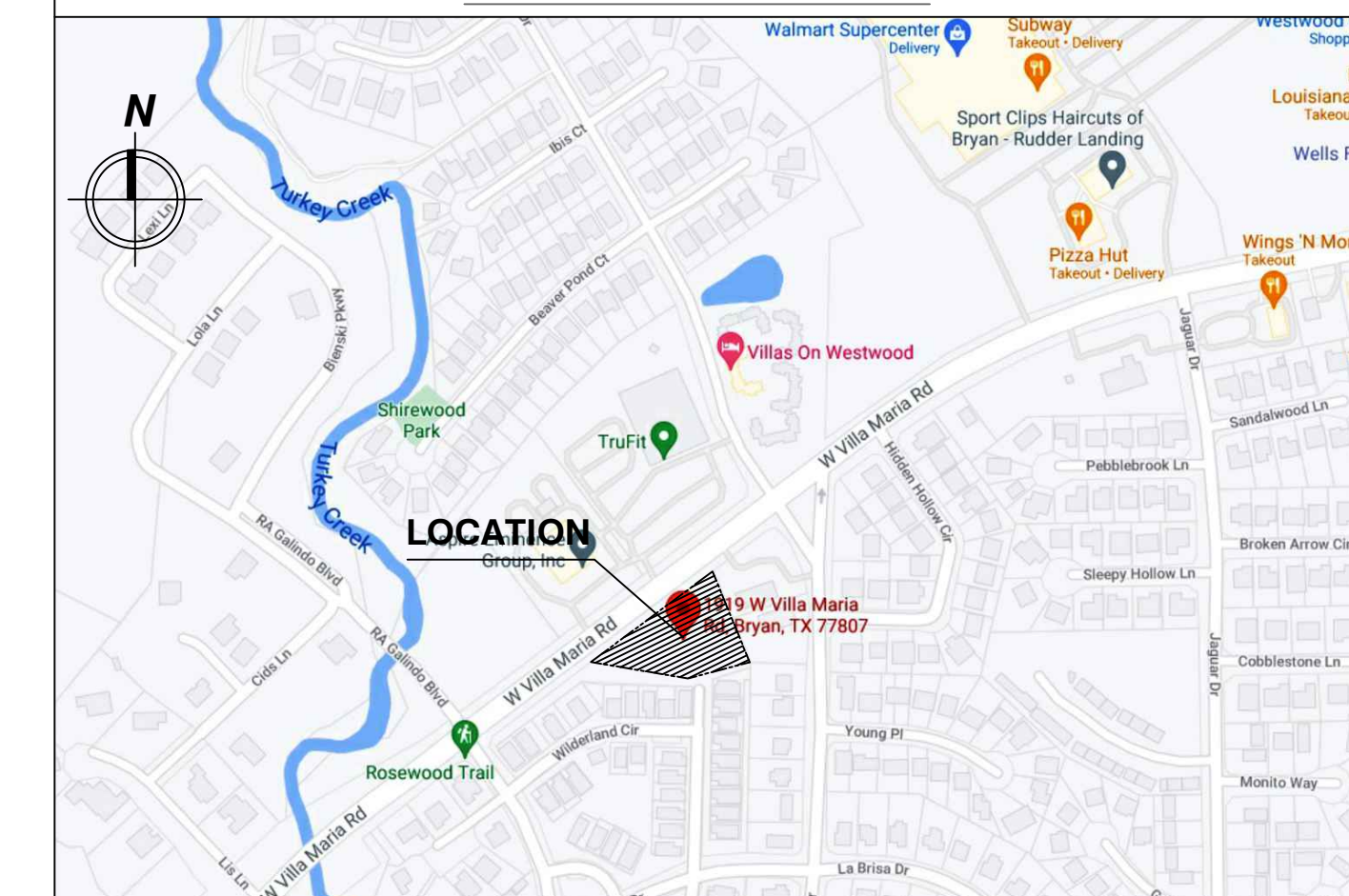
DEFERRED SUBMITTALS :-

- 1- FUEL CANOPY
- 2- UNDER GROUND FUEL TANK
- 3- WALK IN COOLERS
- 4- TYPE -I KITCHEN HOOD
- 5- SECURITY CAMERAS
- 6- SECURITY DOORS (SHUTTERS)
- 7- PYLON SIGN

KEY MAP # 48027C 0295E



VICINITY MAP



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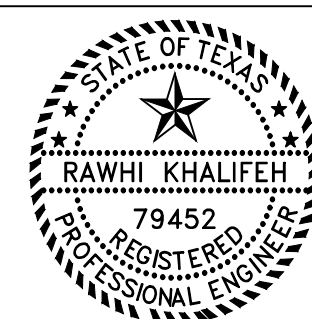
MECHANICAL

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ELECTRICAL

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- E-4.0 PANELS AND RISER DIAGRAM

NONE
GRAPHIC SCALE



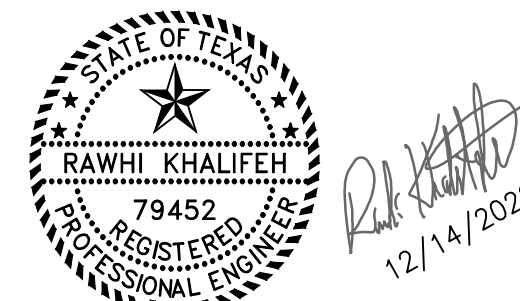

12/14/2022

ISSUE HISTORY		REVISIONS	
DATE	ISSUED FOR	DESCRIPTION	
5-16-22	ISSUE FOR PERMITTING	CONSTRUCTION DRAWINGS	
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-	-	-	-
-	-	-	-



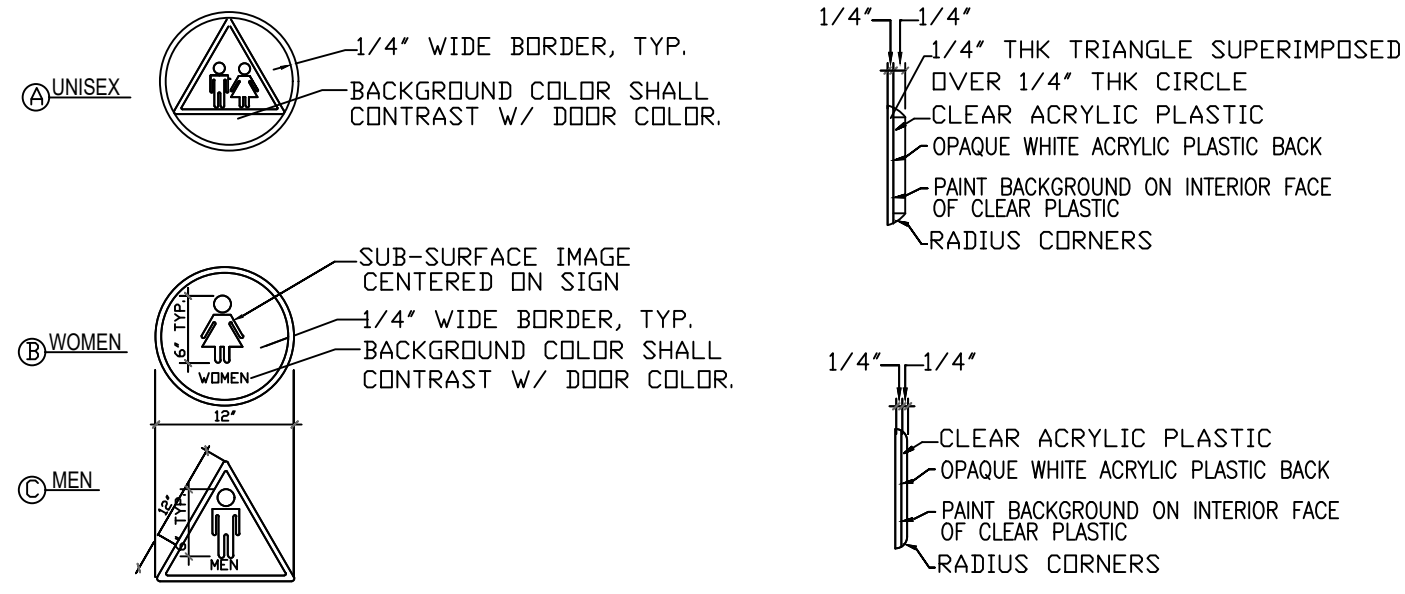
RSK ENGINEERING
ENGINEERS, CONSTRUCTION MANAGERS, PLANNERS
11302 TANNER RD. HOUSTON, TEXAS 77041
TEL (281) 580-4585 FAX (281) 580-4399
FIRM # F-11211

VILLA MARIA GAS STATION		
1919 WEST VILLA MARIA ROAD		
BRYAN, TX 77807		
COVER SHEET, INDEX & VICINITY MAPS		
DRAWN BY: BM	DATE: 9-15-2021	SHEET: A-00
CHECKED BY: RSK	PROJ. NO.: VR151003.317.4	Rev: 0

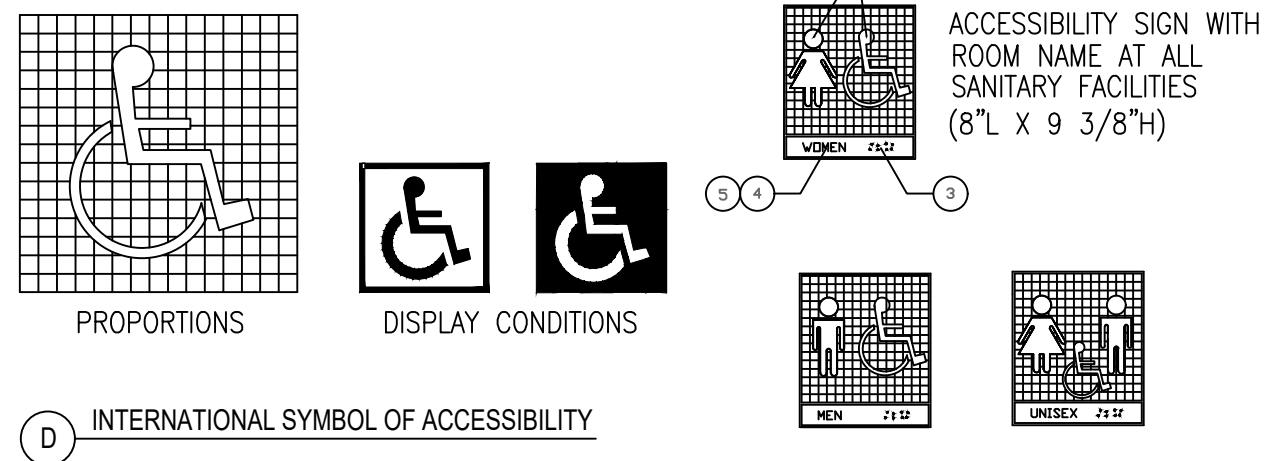
<p>OUTLINE SPECIFICATIONS</p> <p>BIDDING REQUIREMENTS</p> <p>00005 INTRODUCTORY NOTES</p> <p>A. FOR BREVITY PURPOSES, WORK WHICH MAY OCCUR IN TWO OR MORE SECTIONS OF THE FINAL PROJECT MANUAL IS, IN SOME INSTANCES, INCORPORATED INTO ONE BROAD-SCOPE SECTION. THE INTENT BEHIND THIS PACKAGE IS TO:</p> <p>1. IDENTIFY, TO THE EXTENT POSSIBLE, THE MATERIALS AND METHODS OF CONSTRUCTION INTENDED FOR THE PROJECT AND TO GIVE THE DESIGN TEAM THE OPPORTUNITY TO CONFIRM BUDGET PRICING.</p> <p>2. SELECT A GENERAL CONTRACTOR TO BECOME A MEMBER OF THE DESIGN TEAM AS A BUDGET CONFIRMATION RESOURCE AND ULTIMATELY FOR DEVELOPMENT OF A GMP CONTRACT. OWNER RESERVES THE RIGHT TO SOLICIT COMPETITIVE BIDS AT FINAL COMPLETION OF CONSTRUCTION DOCUMENTS IN THE EVENT THE NEGOTIATING G.C. IS UNABLE TO DEVELOP A GMP WITHIN THE OWNER'S ACCEPTABLE RANGE.</p> <p>C. A LISTING OF A SINGLE MANUFACTURER OR PRODUCT IS NOT NECESSARILY INTENDED TO RESTRICT COMPETITIVE BIDDING.</p> <p>D. GENERAL CONDITIONS AND EXECUTION STATEMENTS ARE GENERALLY EITHER OMITTED OR ABBREVIATED AT THIS LEVEL UNLESS THEY BEAR UNIQUELY ON THIS PROJECT.</p> <p>00700 GENERAL CONDITIONS</p> <p>A. THE GENERAL CONDITIONS FOR THIS CONTRACT ARE "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION", AIA DOCUMENT A201, FOURTEENTH EDITION, 1987, AND ARE INCORPORATED HEREIN AS IF REPRODUCED IN TOTAL.</p> <p>00800 SUPPLEMENTARY CONDITIONS</p> <p>A. SUPPLEMENTARY CONDITIONS MODIFYING THE GENERAL CONDITIONS MAY BE ISSUED WITH THE CONTRACT DOCUMENTS.</p> <p>DIVISION 1 – GENERAL REQUIREMENTS</p> <p>01010 SUMMARY OF WORK</p> <p>A. THE WORK CONSISTS OF FURNISHING ALL LABOR, MATERIALS, SERVICES, EQUIPMENT REQUIRED IN CONJUNCTION WITH OR PROPERLY INCIDENTAL TO ALL CONSTRUCTION WORK, INCLUDING GENERAL CONSTRUCTION, ALL SITEWORK, PLUMBING, HEATING, VENTILATING, AIR CONDITIONING, AND ELECTRICAL WORK.</p> <p>B. WORK BY OTHERS: WORK ON PROJECT WHICH WILL BE EXECUTED ALONG WITH WORK OF THIS CONTRACT AND WHICH IS SPECIFICALLY EXCLUDED FROM THIS CONTRACT IS AS FOLLOWS:</p> <ol style="list-style-type: none"> FURNITURE, FIXTURES AND EQUIPMENT AS SPECIFIED IN THE EQUIPMENT LIST. FUTURE LEASE SPACE BUILDOUT FUEL GAS TANKS, GAS PUMPS, AND CANOPY ALL EXTERIOR SIGNAGE . <p>01020 ALLOWANCES</p> <p>A. PRODUCTS & SERVICES WHICH SPECIFIED BY ALLOWANCE INCLUDE:</p> <ol style="list-style-type: none"> LANDSCAPING: \$25,000. <p>DIVISION 2 – SITEWORK</p> <p>02220 EARTHWORK FOR BUILDINGS</p> <p>A. REFERENCE STRUCTURAL DRAWING BY CONTRACTOR.</p> <p>DIVISION 3 – CONCRETE</p> <p>REFER TO CIVIL & STRUCTURAL DRAWINGS.</p> <p>DIVISION 4 – MASONRY</p> <p>04100 MORTAR</p> <p>A. Mortar:</p> <ol style="list-style-type: none"> ASTM C 270, TYPE M, 1800 PSI FOR LOAD BEARING WALLS. MORTAR COLOR SHALL BE EARTH-TONE TO MATCH COLOR OF CMU. <p>B. Grout:</p> <ol style="list-style-type: none"> AGGREGATE: ASTM C404, 2,500 PSI AT 28 DAYS; 9-1/2" SLUMP, FOR BOND BEAMS AND FILLED CELLS OF CONCRETE MASONRY. <p>04200 UNIT MASONRY</p> <p>A. CONCRETE MASONRY UNITS:</p> <ol style="list-style-type: none"> TYPE: HOLLOW LOAD BEARING, ASTM C90, TYPE I, GRADE N. Sizes/Style: A. SPLIT-FACED BLOCK: 8"x8"x16" NOMINAL, EARTH-TONE. <p>BOND: RUNNING.</p> <ol style="list-style-type: none"> SPECIAL SHAPES: BOND BEAMS AND LINTELS. <p>B. REINFORCING AND ACCESSORIES:</p> <ol style="list-style-type: none"> HORIZONTAL JOINT REINFORCEMENT: COMPLY WITH ASTM A 82, TRUSS OR LADDER DESIGN. <p>C. RE: STRUCTURAL DRAWINGS FOR ADDL. REQUIREMENTS.</p>	<p>DIVISION 5 – METALS</p> <p>05120 STRUCTURAL STEEL</p> <p>RE: STRUCTURAL DRAWINGS.</p> <p>DIVISION 6 – WOOD AND PLASTICS</p> <p>06100 ROUGH CARPENTRY</p> <p>A. WORK INCLUDED: WOOD NAILERS, BLOCKING, FURRING, CURBS, ANCHORS AND ACCESSORIES.</p> <p>B. MATERIALS:</p> <ol style="list-style-type: none"> LUMBER: NO. 2 GRADE SOUTHERN YELLOW PINE OR EQUIVALENT GRADE WEST COAST DOUGLAS FIR, SURFACED S4S NOMINAL SIZES, CONFORMING TO PRODUCT STANDARD PS-20. PLYWOOD: COMPLY WITH PRODUCT STANDARD PS 1-74. Anchor bolts: Conform to ASTM A 307, galvanized FINISH, COMPLETE WITH NUTS AND WASHERS. NAILS: COMPLY WITH FS FF-N-105 HOT-DIP GALVANIZED OR ALUMINUM FOR EXTERIOR LOCATIONS; PLAIN FINISH FOR INTERIOR; SIZE AND TYPE TO SUIT APPLICATION. MOISTURE PRESERVATIVE TREATMENT: WATER-BORNE PRESERVATIVE TREATMENT COMPLYING WITH AWPB LP-2 REQ'D FOR MEMBERS IN CONTACT WITH CONC. OR MASONRY. <p>06200 FINISH CARPENTRY</p> <p>A. AWI CUSTOM GRADE FOR EXPOSED CONSTRUCTION (PUBLIC AREAS), AND ECONOMY FOR STORAGE AND OTHER UTILITY AREAS.</p> <p>B. COUNTER TOPS: LAMINATED PLASTIC, COMPLETE WITH APRONS AND BACKSPASHES AND CUTOUTS.</p> <p>C. Materials:</p> <ol style="list-style-type: none"> INDUSTRIAL PARTICLEBOARD: 45 TO 47 PCF DENSITY, GRADED TO COMPLY WITH AWI STANDARDS. PLASTIC LAMINATE: <ol style="list-style-type: none"> NEMA LD 3, 0.050" PLUS OR MINUS 0.005", GENERAL PURPOSE GRADE. COLOR, TEXTURE AND PATTERNS: AS SELECTED BY OWNER FROM ANY MAJOR MANUFACTURER. UTILITY SHELVING: A/B GRADE FIR VENEER PLYWOOD WITH FIR OR PINE EDGING. <p>DIVISION 7 – THERMAL & MOUNTING PROTECTION</p> <p>06410 CUSTOM CASEWORK</p> <p>A. COUNTER TOPS: LAMINATED PLASTIC, COMPLETE WITH APRONS</p> <p>B. TO BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. AND BACKSPASHES AND CUTOUTS.</p> <p>07213 BATT AND BLANKET INSULATION</p> <p>A. THERMAL INSULATION:</p> <ol style="list-style-type: none"> GLASS FIBER COMPLYING WITH ASTM C 665, FRICTION FIT, TYPE WITH ALUMINUM FOIL VAPOR BARRIER WITH FLAME SPREAD OF 25 OR LESS. R FACTOR: 19 AT EXTERIOR WALLS. ACCEPTABLE PRODUCTS: OWENS CORNING FIBERGLAS, MANVILLE CO. <p>B. SAFING: MINERAL FIBER SAFING INSULATION WITH FLAME SPREAD OF 25 SHALL BE USED TO FILL VOIDS BETWEEN FLOORS AND ROOF OF STOREFRONT SYSTEM.</p> <p>07530 BUILT-UP ROOFING SYSTEM</p> <p>A. TPO, TWENTY (20) YEAR BONDABLE-TYPE, ROOF, FLASHINGS, ACCESSORIES AND RELATED ITEMS, MINIMUM, SPECIFIED AND INSTALLED IN ACCORDANCE WITH A ROOFING MATERIALS OVER 4" RIGID INSULATION (R VALUE 25).</p> <p>07535 SHEET METAL ROOF</p> <p>A. STANDING SEAM METAL ROOF: ULTRA-DEK 124 AS MANUFACTURED BY MBCI (OR EQUAL).</p> <p>C. COLOR: BY OWNER (MATCH BUILDING)</p> <p>07600 SHEET METAL FLASHINGS AND TRIM</p> <p>A. Products</p> <ol style="list-style-type: none"> SHEET METAL FLASHING AND TRIM: <ol style="list-style-type: none"> ZINC-COATED STEEL: ASTM A 526, G90 HOT-DIP GALVANIZED, 26 GAUGE. FLEXIBLE SHEET MEMBRANE FLASHING: NON REINFORCED FLEXIBLE BLACK ELASTIC SHEET, 50 TO 65 MILS THICK, NEOPRENE SYNTHETIC RUBBER SHEET. <p>07900 JOINT SEALANTS</p> <p>A. VERTICAL JOINTS SUBJECT TO MOVEMENT: TWO-PART NON-SAG GRADE POLYURETHANE, MATCH COLOR OF SUBSTRATES.</p> <p>B. INTERIOR JOINTS NOT SUBJECT TO MOVEMENT: ACRYLIC LATEX OF SOLVENT CURE ACRYLIC.</p> <p>C. PROVIDE NECESSARY BACK RODS, BOND BREAKER TAPES AND CLOSED CELL POLYETHYLENE EXPANSION JOINT FILLERS.</p>	<p>DIVISION 8 – DOORS AND WINDOWS</p> <p>08100 STEEL DOORS AND FRAMES</p> <p>A. Hollow Metal Doors:</p> <ol style="list-style-type: none"> 18 GA. COLD-ROLLED STRETCHER-LEVEL STEEL SHEETS INTERIOR DOORS AND 16 GA. GALVANIZED SHEETS FOR EXTERIOR DOORS. SIZE: 1-3/4" X 3'-0" X 7'-0" <p>B. PRESSED STEEL FRAMES:</p> <ol style="list-style-type: none"> WELDED CONSTRUCTION, 14 GA. GALVANIZED STEEL FOR EXTERIOR AND 16 GA. PRIMED FOR INTERIOR. <p>08410 ALUMINUM ENTRANCES, STOREFRONTS, AND WINDOWS</p> <p>A. STOREFRONT SYSTEM:</p> <ol style="list-style-type: none"> ALUMINUM FRAMED GLAZING SYSTEM, FRONT LOADED, FLUSH GLAZING SYSTEM, SIMILAR TO KAWNEER TRIFAB 450. WIND LOAD: 20 PSF (EXTERIOR); 5 PSF (INTERIOR). GLASS: 1" CLEAR INSULATING GLASS, DOUBLE PANE WITH LOW E (SHGC 0.41,U=491). <p>B. ALUMINUM ENTRANCE DOORS:</p> <ol style="list-style-type: none"> TUBULAR FRAME MEMBERS, 1-3/4" DEEP, MEDIUM STILE DESIGN, COMPLYING WITH NAAMM ENTRANCE-MANUAL. PROVIDE OFFSET PIVOTS, CLOSER, PULL BARS, EXIT DEVICES, THRESHOLDS 1/2" MAX, WEATHER-STRIPPING AND LATCH LOCKS MUST MEET (TAS) SECTION 4.13.8 & 4.13.9 GLASS: SAME AS STOREFRONTS. TEMPERED <p>C. FINISHES:</p> <ol style="list-style-type: none"> COATING: KYNAR 500 (70% RESIN) FINISH COLOR: BY OWNER <p>08710 HARDWARE</p> <p>A. FINISH HARDWARE:</p> <ol style="list-style-type: none"> LOCKSETS: COMMERCIAL GRADE WITH LEVERS. PROVIDE BALL BEARING HINGES, LOCKSETS AND FLOOR STOPS ON ALL DOORS. PROVIDE THREE SILENCERS FOR SINGLE DOORS. PROVIDE STAINLESS STEEL KICK PLATES ON KITCHEN AND OTHER SERVICE DOORS. FINISH: US 32D UNLESS NOTED OTHERWISE. <p>B. EXTERIOR HOLLOW METAL DOORS WILL BE PROVIDED WITH ALUMINUM WEATHER-STRIPPING AND THRESHOLDS.</p> <p>08800 GLAZING</p> <p>A. SAFETY GLASS: ASTM A1036, TEMPERED TO ASTM C1048 GLAZING SELECT QUALITY, FULLY TEMPERED, 1/4" THICK MINIMUM, INSTALL AT ALL ALUM. AND GLASS DOORS AND THE LIGHT AT EACH SIDE OF DOORS AS PER CODE.</p> <p>B. OTHER GLASS: 1/4" FLOAT</p> <p>C. UNFRAMED MIRRORS: 1/4" CLEAR FLOAT INSTALLED WITH MASTIC AND SETTING CLIPS.</p> <p>D. GLAZING GASKETS: NEOPRENE, VINYL OR COMPATIBLE WITH GLAZING SYSTEM.</p> <p>DIVISION 9 – INTERIOR FINISHES</p> <p>09250 GYPSUM BOARD SYSTEMS</p> <p>A. METAL SUPPORT MATERIALS</p> <ol style="list-style-type: none"> INSTALL IN ACCORDANCE WITH ASTM C 754 AND GYPSUM ASSOCIATION SPECIFICATION GA-203 "INSTALLATION OF SCREW-TYPE STEEL MEMBERS TO RECEIVE GYPSUM BOARD" INTERIOR WALL FRAMING: 25 GA. LIGHT-GAUGE FRAMING,ING STUDS, "C" SHAPED, CONFORMING TO ASTM C 645 OF REQUIRED DEPTHS. <p>B. GYPSUM BOARD PRODUCTS:</p> <ol style="list-style-type: none"> COMPLY WITH GA-216. GYPSUM WALLBOARD: ASTM C 36, 5/8" THICK MOISTURE RESISTANT GYPSUM WALLBOARD AS BACKING FOR CERAMIC WALL TILE: ASTM C 630, 5/8" THICK. <p>09300 TILE</p> <p>A. GENERAL:</p> <ol style="list-style-type: none"> COMPLY WITH ANSI/ASTM A118.4 FOR MORTAL AND ANSI/ASTM A118.6 FOR GROUT MATERIALS. INSTALL IN ACCORDANCE WITH A108.5 AND A108.10. <p>B. PORCELAIN TYPE CERAMIC MOSAIC TILE (UNGLAZED): LOCATION AND SIZE</p> <p>09511 SUSPENDED ACOUSTICAL CEILINGS</p> <p>A. SUSPENSION SYSTEM</p> <ol style="list-style-type: none"> INTERMEDIATE DUTY SYSTEM, COMPLYING WITH ASTM C 635, non-fire rated. <p>B. ACOUSTIC UNITS</p> <ol style="list-style-type: none"> 3/4" THICK, MINERAL FIBER 3/4" WASHABLE VINYL FACED UNIT OVER FOOD PREP areas. <p>09650 RESILIENT FLOORING</p> <p>A. VINYL COMPOSITION TILE: 1/8" X 12" X 12"; PREMIUM PATTERN AS SELECTED BY OWNER.</p> <p>B. BASE: 4" HIGH RUBBER</p> <p>C. REDUCER STRIPS: CENTERED UNDER DOORS AT TRANSITION BETWEEN VINYL COMPOSITION FLOOR AND EXPOSED CONCRETE FLOORS.</p>	<p>09800 STUCCO FINISHES</p> <p>FINESTONE EXTERIOR WALL SURFACING SYSTEMS</p> <p>A. REFER TO SECTION AND ARCHITECTURAL DETAILS</p> <p>09900 Painting</p> <p>A. EXTERIOR SURFACES:</p> <ol style="list-style-type: none"> EXPOSED FERROUS MEAL SURFACES: <ol style="list-style-type: none"> APPLY PRIMER AND TWO COATS IN INDUSTRIAL ENAMEL (ALKYD PAINT). EXPOSED GALVANIZED STEEL SURFACES: <ol style="list-style-type: none"> WASH SURFACES WITH GALVAPREP AND APPLY PRIME COAT AND TWO COATS OF INDUSTRIAL ENAMEL (ALKYD PAINT). <p>B. INTERIOR SURFACES:</p> <ol style="list-style-type: none"> WOOD – PAINTED: TWO COATS LATEX SEMIGLOSS ENAMEL. WOOD – NATURAL FINISH: TWO COATS OIL BASED VARNISH. WOOD – STAINED: ONE COAT EACH INTERIOR WIPING STAIN AND TWO COATS VARNISH. GYPSUM BOARD WALLS: TWO COATS LATEX SEMIGLOSS ENAMEL PAINT. CONCRETE AND CONCRETE BLOCK MASONRY: BLOCK FILLER AND TWO COATS SEMI-GLOSS LATEX ENAMEL. EXPOSED FERROUS METAL: PRIMER AND TWO COATS OF SEMI-GLOSS LATEX ENAMEL. EXPOSED GALVANIZED STEEL: WASH WITH GALVAPREP AND APPLY PRIME COAT AND TWO COATS OF SEMI-GLOSS LATEX ENAMEL. <p>DIVISION 10 – SPECIALTIES</p> <p>NOT USED</p> <p>DIVISION 11 – EQUIPMENT</p> <p>CONTRACTOR SHALL PROVIDE BLOCKING BEHIND ALL FIXTURES AND TV.</p> <p>DIVISION 12 – FURNISHINGS</p> <p>DIVISION 13 – SPECIAL CONSTRUCTION</p> <p>LIGHT POLE CONCRETE BASE TO BE PROVIDED BY GENERAL CONTRACTOR.</p> <p>DIVISION 14 – ELEVATORS</p> <p>NOT USED</p> <p>DIVISION 15 – MECHANICAL</p> <p>SEE MECHANICAL & PLUMBING DRAWINGS</p> <p>DIVISION 16 – ELECTRICAL</p> <p>SEE ELECTRICAL DRAWINGS</p> <p>ACCESSIBILITY</p> <p>SEE SHEET A-002, A-003, A-004 FOR ACCESSIBILITY REQUIREMENTS</p>																																		
<p>GRAPHIC SCALE</p>	 <p>12/14/2022</p>	<table border="1"> <thead> <tr> <th colspan="2">ISSUE HISTORY</th> <th colspan="2">REVISIONS</th> </tr> <tr> <th>DATE</th> <th>ISSUED FOR</th> <th>DESCRIPTION</th> <th></th> </tr> </thead> <tbody> <tr> <td>5-16-22</td> <td>ISSUE FOR PERMITTING</td> <td>CONSTRUCTION DRAWINGS</td> <td></td> </tr> <tr> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> </tbody> </table>	ISSUE HISTORY		REVISIONS		DATE	ISSUED FOR	DESCRIPTION		5-16-22	ISSUE FOR PERMITTING	CONSTRUCTION DRAWINGS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	 <p>RSK ENGINEERING ENGINEERS, CONSTRUCTION MANAGERS, PLANNERS</p> <p>11302 TANNER RD. TEL. (281) 580-4585 HOUSTON, TEXAS 77041 FAX (281) 580-4399</p> <p>FIRM # F-11211</p> <p>VILLA MARIA GAS STATION 1919 WEST VILLA MARIA ROAD BRYAN , TX 77807</p> <p>SPECIFICATIONS & GENERAL NOTES</p> <table border="1"> <tr> <td>DRAWN BY: BM</td> <td>DATE: 9-15-2021</td> <td>SHEET:</td> </tr> <tr> <td>CHECKED BY: RSK</td> <td>PROJ. NO.: VR151003.317.4</td> <td>A-001 Rev.0</td> </tr> </table>	DRAWN BY: BM	DATE: 9-15-2021	SHEET:	CHECKED BY: RSK	PROJ. NO.: VR151003.317.4	A-001 Rev.0
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ACCESSIBILITY NOTES

ACCESSIBLE SIGN LEGEND



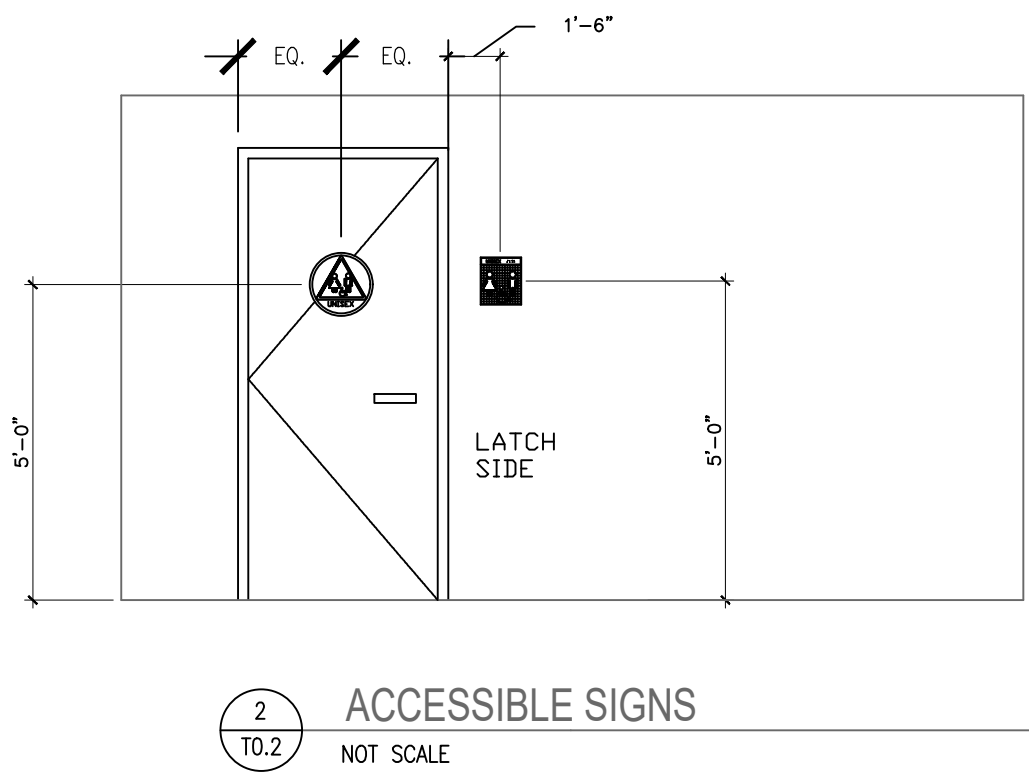
NOTE: WHITE FIGURE ON A BLUE BACKGROUND, THE BLUE SHALL BE EQUAL TO COLOR NO. 15090 IN FEDERAL STANDARD 595B, AND IN BRAILLE.
ATTACH SIGN USING (3) THREE FLATHEAD WOOD SCREWS, COUNTERSUNK BE CENTERED ON DOOR & ADHESIVE SIGN SHALL ABOVE THE FLOOR.



D INTERNATIONAL SYMBOL OF ACCESSIBILITY



E LISTENING SIGN



2 TO 2 ACCESSIBLE SIGNS NOT SCALE

TOILET SIGNS

IDENTIFICATION SYMBOLS: ON DOORWAYS LEADING TO MEN'S SANITARY FACILITIES, AN EQUILATERAL TRIANGLE 1/4" THICK WITH EDGES 12" LONG AND A VERTEX POINTING UPWARD AND ON WOMENS' SANITARY FACILITIES A CIRCLE 1/4" THICK AND 12" IN DIAMETER. THESE GEOMETRIC SYMBOLS SHALL BE CENTERED ON THE DOOR AT A HEIGHT OF 60" AND THEIR COLOR AND CONTRAST SHALL BE DISTINCTLY DIFFERENT FROM THE COLOR AND CONTRAST OF THE DOOR.

BRAILLE ROOM NUMBERS

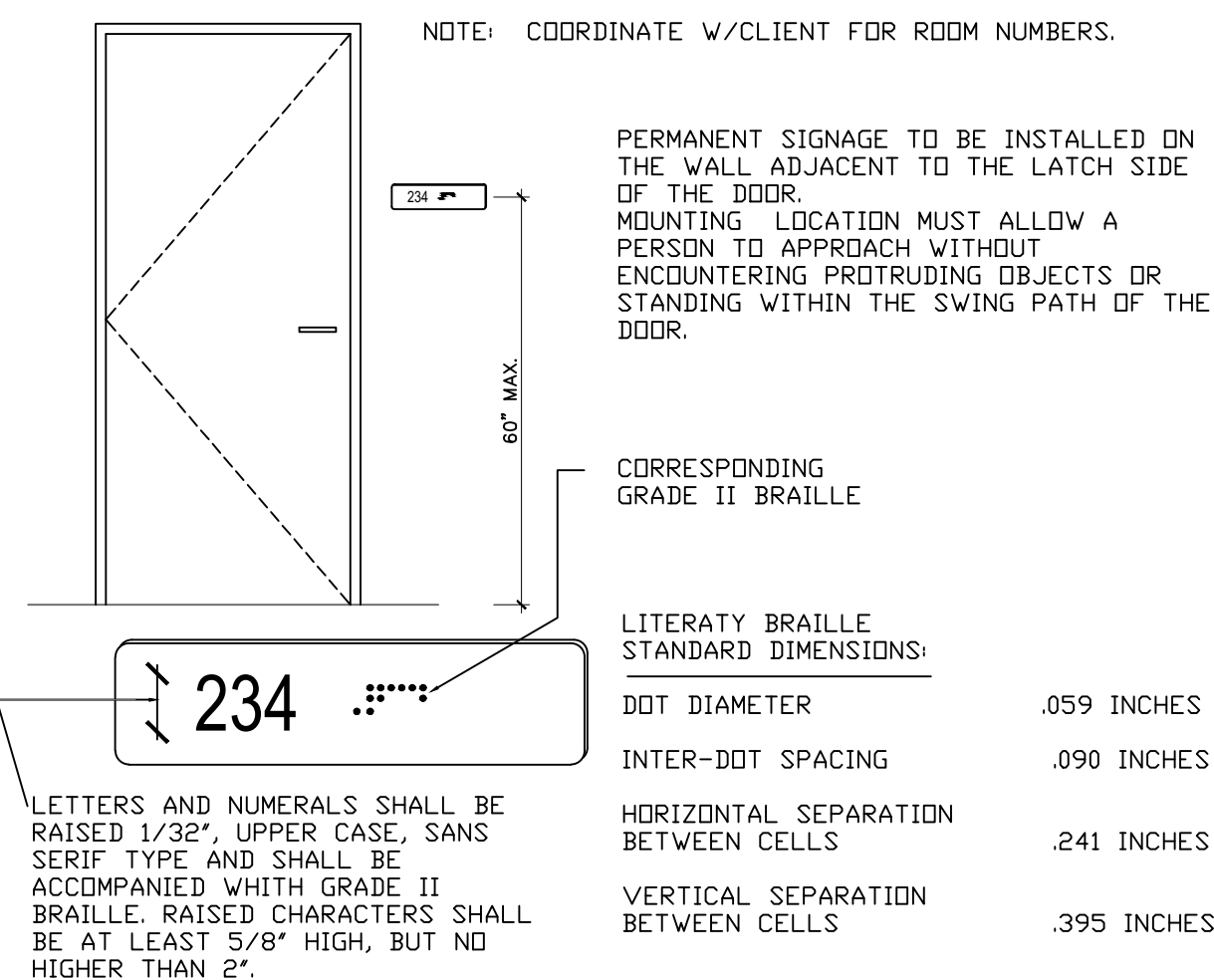
REMOVE EXISTING ROOM NUMBER SIGNS. PROVIDE AND INSTALL NEW BRAILLE TYPE ROOM NUMBER SIGNS TO REPLACE EXISTING. NOTE: ROOM NUMBERS ON PLANS ARE FOR CONSTRUCTION PURPOSE ONLY. DO NOT USE ROOM NUMBERS ON PLANS. VERIFY NEW ROOM NUMBER SIGNS WITH DISTRICT BEFORE INSTALLING. LETTERS AND NUMERALS SHALL BE RAISED 1/32" UPPER CASE, SANS SERIF TYPE AND SHALL BE ACCOMPANIED WITH GRADE II BRAILLE. RAISED CHARACTERS SHALL BE AT LEAST 5/8" HIGH, BUT NO HIGHER THAN 2"

ACCESSIBLE SIGNS AND IDENTIFICATION:

- THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE THE STANDARD USED TO IDENTIFY FACILITIES THAT ARE ACCESSIBLE TO AND USEABLE BY PERSONS WITH DISABILITIES AS SET FORTH IN THESE BUILDING STANDARDS AND AS SPECIFICALLY REQUIRED IN THIS SECTION.
NOTE: SEE FIGURE BELOW.
- COLOR OF SYMBOL: THE SYMBOL SPECIFIED ABOVE SHALL CONSIST OF A WHITE FIGURE ON A BLUE BACKGROUND. THE BLUE SHALL BE EQUAL TO COLOR NO. 15090 IN FEDERAL STANDARD 595B.
EXCEPTION: THE APPROPRIATE ENFORCEMENT AGENCY MAY APPROVE SPECIAL SIGNS AND IDENTIFICATION NECESSARY TO COMPLEMENT DECOR OR UNIQUE DESIGN WHEN IT IS DETERMINED THAT SUCH SIGNS AND IDENTIFICATION PROVIDES ADEQUATE DIRECTION TO PERSONS WITH DISABILITIES.
- BRAILLE SYMBOLS: CONTRACTED GRADE 2 BRAILLE SHALL BE USED WHEREVER BRAILLE SYMBOLS ARE SPECIFICALLY REQUIRED IN OTHER PORTIONS OF THESE STANDARDS. DOTS SHALL BE 1/10-INCH ON CHARACTERS IN EACH CELL WITH 2/10-INCH SPACE BETWEEN CELLS. DOTS SHALL BE RAISED A MINIMUM OF 1/40-INCH ABOVE THE BACKGROUND.
- LETTER SIZE: LETTERS AND NUMBERS ON SIGNS SHALL HAVE A WIDTH-TO-HEIGHT RATIO OF BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH TO HEIGHT RATIO BETWEEN 1:5 AND 1:10.
- CONTRAST OF SYMBOL: CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND, EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.
RAISED AND RECESSED CHARACTERS: WHEN RAISED OR RECESSED CHARACTERS OR SYMBOLS ARE USED, THEY SHALL CONFORM TO THE FOLLOWING:
A. LETTER TYPE: LETTERS AND NUMBERS ON SIGNS SHALL BE RAISED OR RECESSED 1/32-INCH MINIMUM AND SHALL BE SANS-SERIF CHARACTERS.
B. SYMBOL SIZE: RAISED CHARACTERS OR SYMBOLS SHALL BE A MINIMUM OF 5/8-INCH HIGH. RECESSED CHARACTERS OR SYMBOLS SHALL HAVE A 1/4-INCH MINIMUM STROKE WIDTH.
ENTRANCE SIGNS: ALL BUILDING ENTRANCES THAT ARE ACCESSIBLE TO AND USEABLE BY PERSONS WITH DISABILITIES SHALL BE IDENTIFIED WITH AT LEAST ONE STANDARD SIGN AND WITH ADDITIONAL DIRECTIONAL SIGNS, AS REQUIRED, TO BE VISIBLE TO PERSONS ALONG APPROACHING PEDESTRIAN WAYS.
- INFORMATION POSTED: BUILDINGS THAT HAVE BEEN REMODELED TO PROVIDE SPECIFIC SANITARY FACILITIES FOR PUBLIC USE THAT CONFORM TO THESE BUILDING STANDARDS SHALL HAVE THIS INFORMATION POSTED IN THE BUILDING LOBBY, PREFERABLY AS PART OF THE BUILDING DIRECTORY.

ACCESSIBILITY SIGN SCHEDULE

MALE: DOORS BLDG A 09; BLDG B 46, 130; BLDG C 41, 49, 92; BLDG E 12, 20; 546
FEMALE: DOORS BLDG A 05, BLDG B 52, 27, 29; BLDG C 42, 48, 91; BLDG F 15, 16, 545
UNISEX: DOORS BLDG A 19; BLDG C 8;



1 TO 2 TYPICAL ACCESSIBLE SIGNS @ DOORS NOT SCALE

GENERAL NOTES

- INTERPRETATION OF CONSTRUCTION DOCUMENTS
 - ALL INFORMATION DEPICTED IN THESE DRAWINGS AND RELATIVE TO EXISTING CONDITIONS IS BASED ON THE BEST AVAILABLE DATA AT THE TIME THESE CONSTRUCTION DOCUMENTS WERE BEING EXECUTED, BUT WITHOUT GUARANTEE OF ACCURACY. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND SHALL REPORT ANY DISCREPANCIES TO ENGINEER OF RECORD (E.O.R) PRIOR TO COMMENCING ANY WORK.
 - THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS INCURRED RESULTING FROM THE REMOVAL OR REPLACEMENT OF WORK INSTALLED WITHOUT PROPER COORDINATION TO ALL OTHER TRADES, AND OR PRIOR TO OBTAINING CLARIFICATION FROM THE ENGINEER OF RECORD (E.O.R) WHERE CONFLICTING INFORMATION EXISTS ON THE DRAWINGS.
 - THE CONTRACTOR SHALL FURNISH ALL BIDDERS WITH A COMPLETE SET OF CONSTRUCTION DOCUMENTS, INCLUDING BUT NOT LIMITED TO DRAWINGS, SPECIFICATIONS AND ADDENDUMS.
 - ALL BIDS AND LINE ITEM COSTS SUBMITTED BY THE CONTRACTOR IN CONJUNCTION WITH HIS SUBCONTRACTORS ARE CONSIDERED TO INCLUDE COMPLETE COORDINATION BETWEEN THE VARIOUS DISCIPLINES AS WELL AS ALL OTHER REQUIREMENTS OF THESE CONSTRUCTION DOCUMENTS, INCLUDING BUT NOT LIMITED TO BUILDING CODE AND ORDINANCE & PUBLIC UTILITY REQUIREMENTS.
FURTHER, WHERE THERE ARE CONFLICTING SOLUTIONS IN THE CONSTRUCTION DOCUMENTS AND A BID OR LINE ITEM COST IS SUBMITTED BY THE CONTRACTOR WITHOUT ANY FORMAL WRITTEN REQUEST FOR CLARIFICATION PRIOR TO BID OPENING, ALL SUCH ITEMS WILL BE CONSIDERED TO INCLUDE THE MOST EXPENSIVE OF THE POSSIBLE SOLUTIONS DEPICTED IN THE CONSTRUCTION DOCUMENTS.
 - MODIFICATIONS OF DETAILS OF CONSTRUCTION SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE (E.O.R) AND CITY.
- DIMENSIONS SHALL HAVE PREFERENCE OVER SCALE.
- CEILING HEIGHT DIMENSIONS ARE FROM FINISH FLOOR TO FINISH FACE OF CEILING.
- PROVIDE ALL NECESSARY BLOCKING, BACKING AND FRAMING FOR LIGHT FIXTURES, ELECTRICAL UNITS, A/C EQUIPMENT, TOILET FIXTURES & ACCESSORIES, RAILINGS, GRAB BARS, AND ALL OTHERS REQUIRING SAME.
- INSULATE HOT WATER SUPPLY AND TRAP AT LAVATORIES IF HOT WATER IS PROVIDED. THERE SHALL BE NO SHARP EDGES OR ABRASIVE SURFACES.
- SEE INTERNATIONAL FIRE CODE (IFC) 2021 CHAPTER 33 FOR FIRE SAFETY REQUIREMENTS DURING CONSTRUCTION. STRICTLY ADHERE TO THE REQUIREMENTS IN THIS SECTION. REVIEW THE WORK ON AN ON-GOING BASIS FOR COMPLIANCE.

REF:

- (E.O.R) ENGINEER OF RECORD: RAWHI KHALIFEH LIC # 79452
- BUILDING CODE TO COMPLY WITH 2021 IBC & 2020 NEC & BRYAN'S AMENDMENTS TO THE ADOPTED CODES.

ACCESSIBILITY STANDARD NOTES (TAS)

TAS SECTION 4.13--DOORS

SECTION 4.13.4-- DOUBLE-LEAF DOORWAYS
A. DOORWAYS WITH TWO INDEPENDENTLY OPERATED LEAVES SHALL HAVE AT LEAST ONE LEAF THAT MEETS THE REQUIREMENTS IN 4.13.5 AND 4.13.6.

SECTION 4.13.5-- CLEAR WIDTH

- A. DOORWAYS SHALL PROVIDE A CLEAR OPENING OF 32" MINIMUM, WITH THE DOOR OPEN 90°.
- CLEAR OPENING SHALL BE MEASURED BETWEEN THE FACE OF THE DOOR AND STOP.
 - OPENINGS MORE THAN 24" IN DEPTH SHALL PROVIDE A CLEAR OPENING OF 36" MINIMUM.

EXCEPTION: DOORS NOT REQUIRING FULL USER PASSAGE, SUCH AS SHALLOW CLOSETS, SHALL HAVE A CLEAR OPENING OF 20" MINIMUM.

SECTION 4.13.6-- MANEUVERING CLEARANCES AT DOORS

- A. PROVIDE LEVEL AND CLEAR MANEUVERING AREA AT DOORS AS FOLLOWS:
FRONT APPROACH PULL SIDE _18" MIN. BESIDE STRIKE EDGE.
FRONT APPROACH PUSH SIDE _0" BESIDE STRIKE EDGE. 12" IF DOOR HAS BOTH A CLOSER AND A LATCH.
HINGE SIDE APPROACH PULL SIDE _60" MIN. WIDTH 36" MIN. BESIDE STRIKE EDGE.
HINGE SIDE APPROACH PUSH SIDE _42" MIN. WIDTH. 42" MIN. WIDTH IF DOOR HAS BOTH A CLOSER AND A LATCH.
LATCH SIDE APPROACH PULL SIDE _48" MIN. WIDTH AND 24" MIN. BESIDES STRIKE EDGE. 54" MIN. WIDTH IF DOOR HAS A CLOSER.
LATCH SIDE APPROACH PUSH SIDE _42" MIN. WIDTH AND 42" MIN. BESIDES STRIKE EDGE. 54" MIN. WIDTH IF DOOR HAS A CLOSER.

SECTION 4.13.8-- THRESHOLDS AT DOORWAYS

A. MAXIMUM THRESHOLD HEIGHT: 1/2" (s"AT EXTERIOR SLIDING DOOR). RAISED THRESHOLDS AND FLOOR LEVEL CHANGES SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2.

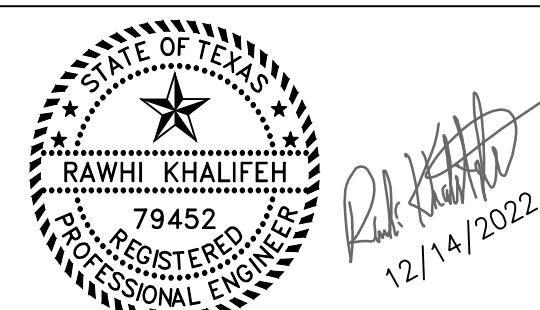
SECTION 4.13.9-- DOOR HARDWARE

- A. HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE.
- LEVER-OPERATED MECHANISMS, PUSH-TYPE MECHANISMS, AND U-SHAPE HANDLES ARE ACCEPTABLE DESIGNS.
 - WHEN SLIDING DOORS ARE FULLY OPEN, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES.
 - HARDWARE REQUIRED FOR PASSAGE SHALL BE MOUNTED NO HIGHER THAN 48" ABOVE FINISHED FLOOR.

SECTION 4.13.11-- DOOR OPENING FORCE

- A. THE MAXIMUM FORCE FOR PUSHING OR PULLING OPEN A DOOR SHALL BE AS FOLLOWS:
1. FIRE DOORS SHALL HAVE THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATION AUTHORITY.
2. OTHER DOORS:
A. EXTERIOR HINGED DOORS: NOT REQUIRED
B. INTERIOR HINGED DOORS: 5 LBF.
C. SLIDING OR FOLDING DOORS: 5 LBF.
THESE FORCES DO NOT APPLY TO THE FORCE REQUIRED TO RETRACT LATCH BOLTS OR DISENGAGE OTHER DEVICES THAT MAY HOLD THE DOOR IN A CLOSED POSITION.

GRAPHIC SCALE



ISSUE HISTORY		REVISIONS	
DATE	ISSUED FOR	DESCRIPTION	
5-16-22	ISSUE FOR PERMITTING	CONSTRUCTION DRAWINGS	
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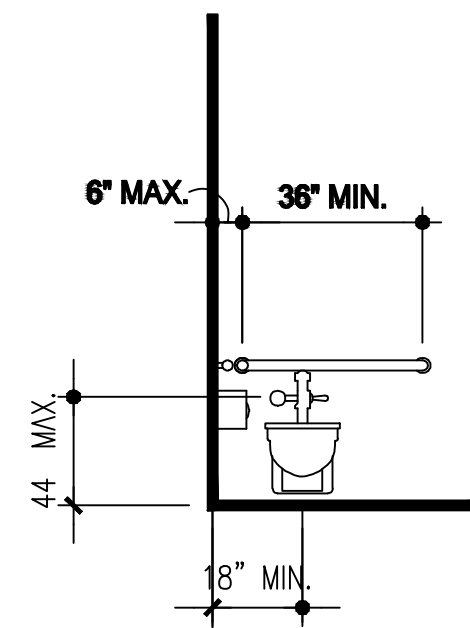
RSK ENGINEERING
ENGINEERS, CONSTRUCTION MANAGERS, PLANNERS
11302 TANNER RD. TEL. (281) 580-4585
HOUSTON, TEXAS 77041 FAX (281) 580-4399
FIRM # F-11211

VILLA MARIA GAS STATION
1919 WEST VILLA MARIA ROAD
BRYAN, TX 77807
ACCESSIBILITY DETAILS AND NOTES

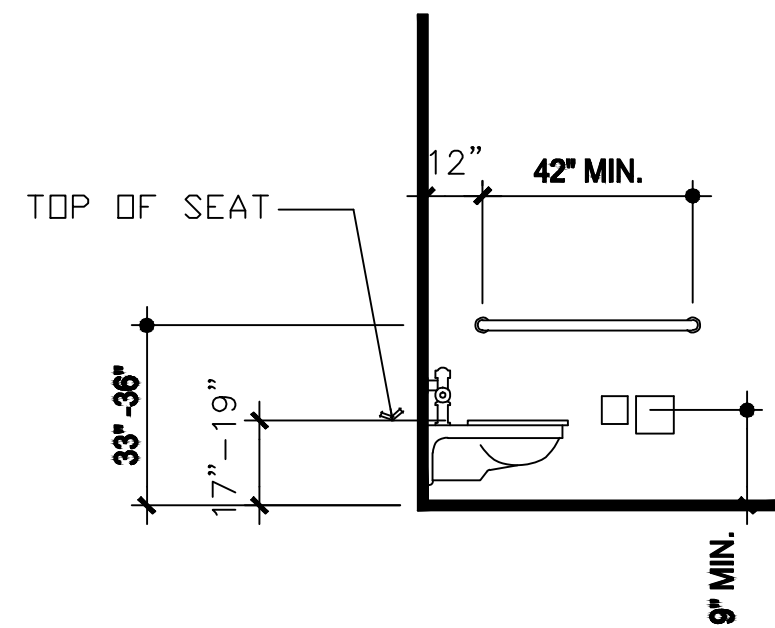
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CHECKED BY: RSK	PROJ. NO.: VR151003.317.4	REV. 0

NOTES:

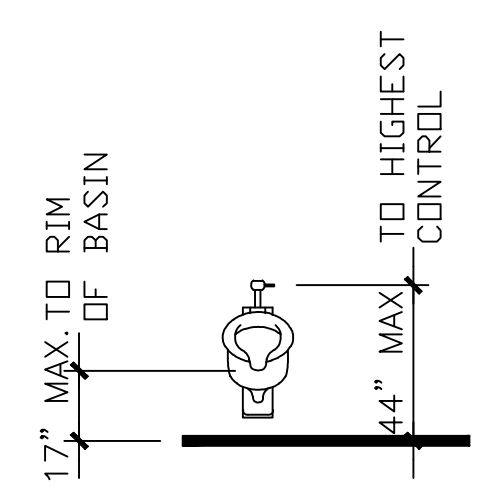
- TOILET FLUSH CONTROLS SHALL BE OPERABLE WITH ONE HAND, AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. CONTROLS FOR THE FLUSH VALVES SHALL BE MOUNTED ON THE WIDE SIDE OF THE TOILET AREAS NO MORE THAN THE TABLE OF DEVIATED DIMENSION SCHEDULE ABOVE THE FLOOR. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5-POUNDS.
- FLUSH CONTROLS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5-POUNDS PER FOOT.
- HOT WATER AND DRAIN PIPES UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVERATORIES.
- FAUCET CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5-POUNDS. LEVER OPERATED, PUSH TYPE AND ELECTRONICALLY CONTROLLED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGNS. SELF CLOSING VALVES ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS.
- A GRAB BAR OR ANY WALL OR OTHER SURFACE ADJACENT TO IT SHALL BE FREE OF ANY SHARP OR ABRASIVE ELEMENTS.
- GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.
- EDGES SHALL HAVE A MINIMUM RADIUS OF 1/8 INCH.
- A FLEXIBLE HAND HELD SHOWER UNIT WITH A HOSE AT LEAST 60-INCHES LONG SHALL BE PROVIDED WITH A HEAD MOUNTING HEIGHT OF 48-INCHES ABOVE THE SHOWER FLOOR.
- WHERE LOCKERS ARE PROVIDED FOR PUBLIC, CLIENTS, EMPLOYEES, MEMBERS OR PARTICIPANTS, AT LEAST ONE AND NOT LESS THAN ONE PERCENT OF ALL LOCKERS SHALL BE MADE ACCESSIBLE TO PERSONS WITH DISABILITIES. A PATH OF TRAVEL NOT LESS THAN 44-INCHES IN CLEAR WIDTH SHALL BE PROVIDED TO THESE LOCKERS.
- ANY WOOD FOR ANY WALL BLOCKING MUST BE TREATED WITH A FIRE RETARDANT.



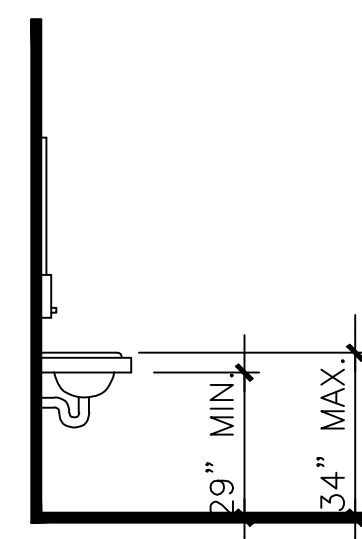
ACCESSIBLE TOILET W/ GRAB BARS,



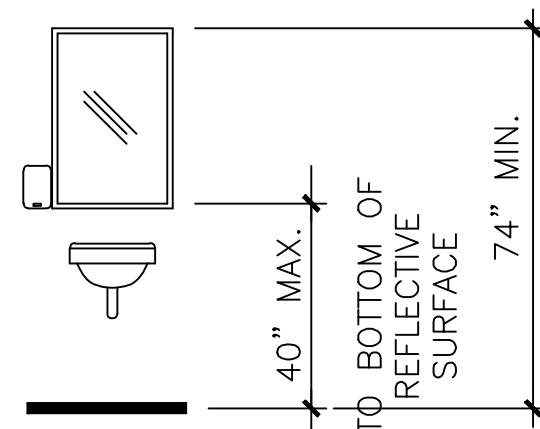
ACCESSIBLE TOILET W/ GRAB BARS TOILET PAPER DISPENSER, SANITARY



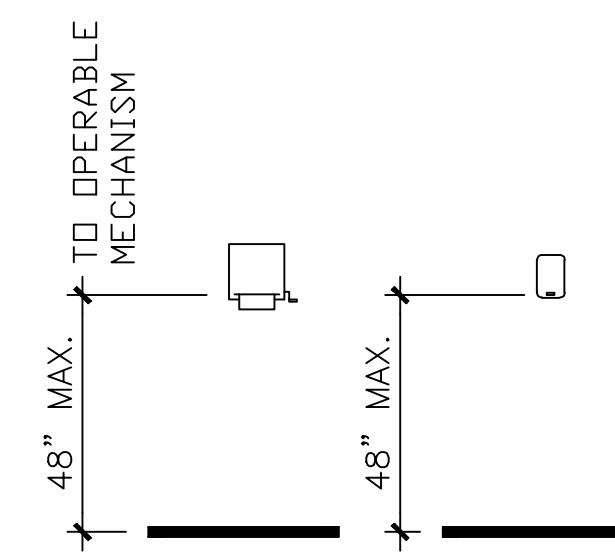
ACCESSIBLE URINAL



ACCESSIBLE LAVATORY

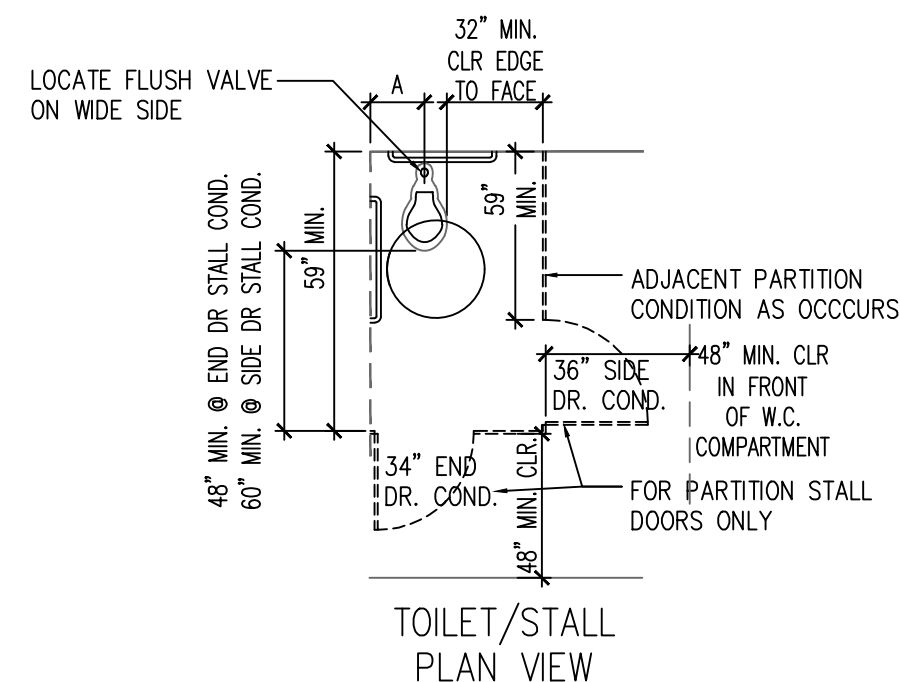


ACCESSIBLE MIRROR



ACCESSIBLE PAPER TOWEL DISPENSER

ACCESSIBLE SOAP DISPENSER



TOILET/STALL PLAN VIEW

- PROVIDE FLOOR DRAIN IN EACH RESTROOMS. SLOPE SHALL NOT EXCEED 1:50
- ALL RESTROOMS FLOOR AND WALL FINISHES ARE TILES, COLOR AND DESIGN WILL BE SELECTED BY ARCHITECT AND OWNER. TILES WILL BE MULTIPLE COLORS.
- ALL GYP BOARD USED IN THE RESTROOM AND WET AREA SHALL BE MOISTURE RESISTANT.
- PROVIDE TOILET ACCESSORY IN EACH OF THE RESTROOM INCLUDING SOAP DISPENSER, MIRROR, TOILET PAPER DISPENSER, PAPER TOWEL DISPENSER, HAND DRYER, & HOOKS. ADDITIONAL SANITARY NAPKIN DISPENSER AND SANITARY NAPKIN DISPOSAL SHALL BE PROVIDED IN GIRLS RESTROOMS.
- PROVIDE GRAB BARS IN ALL ACCESSIBLE RESTROOM AS SHOWN IN THE PLAN.
- TOILET ACCESSORY MANUFACTURER: BRADLY CORP, BOBRICK OR AMERICAN SPECIALTIES INC. MODEL WILL BE SELECTED BY OWNER
- ALL DIMENSIONAL REQUIREMENTS FOR PLUMBING EQUIPMENT AND MOUNTING HEIGHT TO COMPLY WITH TAS REQUIREMENTS.
- ALL TOILET PARTITIONS, SHOWER COMPARTMENTS SHALL BE SOLID POLYMER FLOOR MOUNTED OVERHEAD BRACED WITH NON CORROSIVE PANEL DOORS

FOR ADDITIONAL DETAILS REFER TO A-004

203

EXIT

DISABLED ACCESS TOILET ARE LOCATED AT THE FACULTY DINING ROOM

THIS IS NOT AN ACCESSIBLE EXIT

THIS RESTROOM IS NOT ACCESSIBLE NEAREST ACCESSIBLE RESTROOM ARE: ROOMS 41 & 42

HOT WATER AND DRAIN PIPES UNDER ACCESSIBLE LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE OBJECTS OR SURFACES UNDER LAVATORIES.

AREA NOT HATCHED BELOW LAV SHALL BE ACCESSIBLE AND CLEAR.

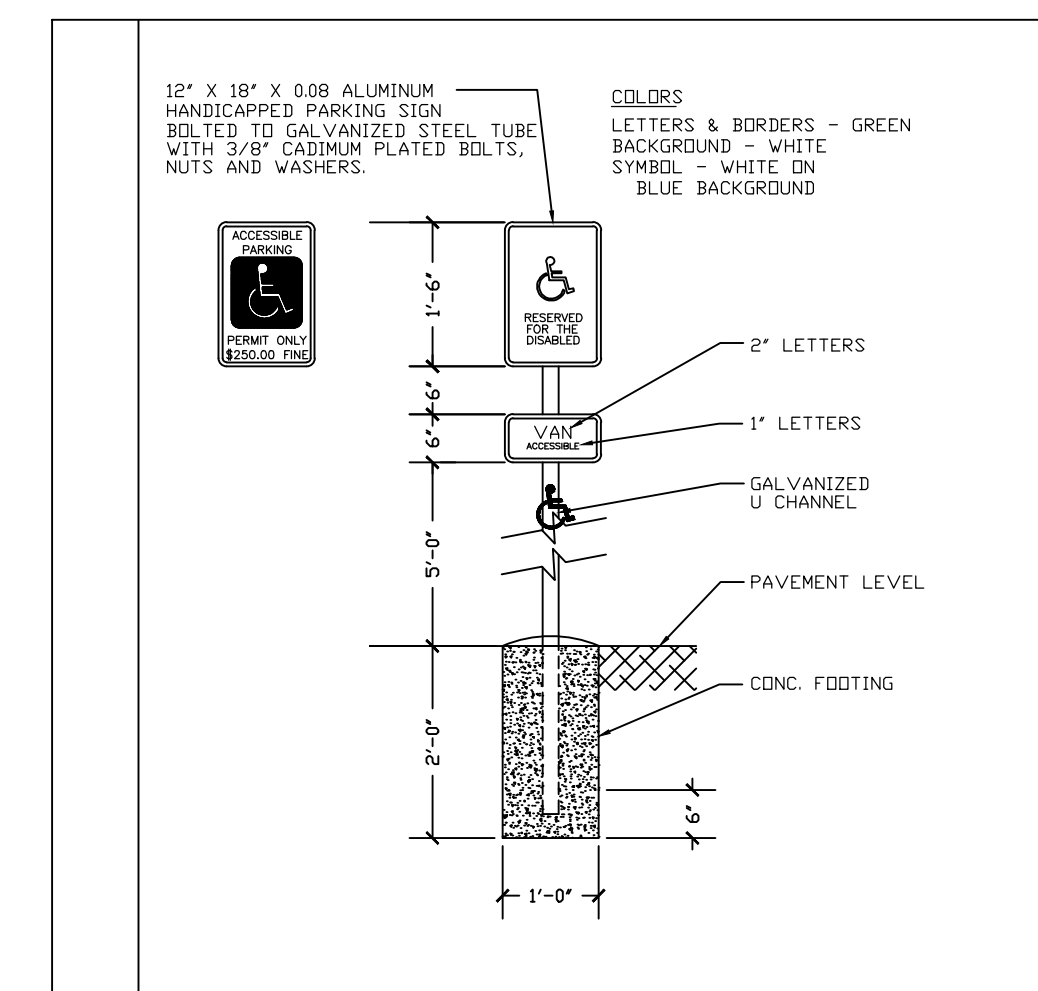
DOOR SIGN NOT TO SCALE 8C TO.3

DOOR SIGN NOT TO SCALE 8B TO.3

DOOR SIGN NOT TO SCALE 8A TO.3

LAVATORY CLEARANCES SCALE: 1/2"=1'-0" A TO.3

DOOR SIGNS N.T.S LAVATORY CLEARANCES N.T.S



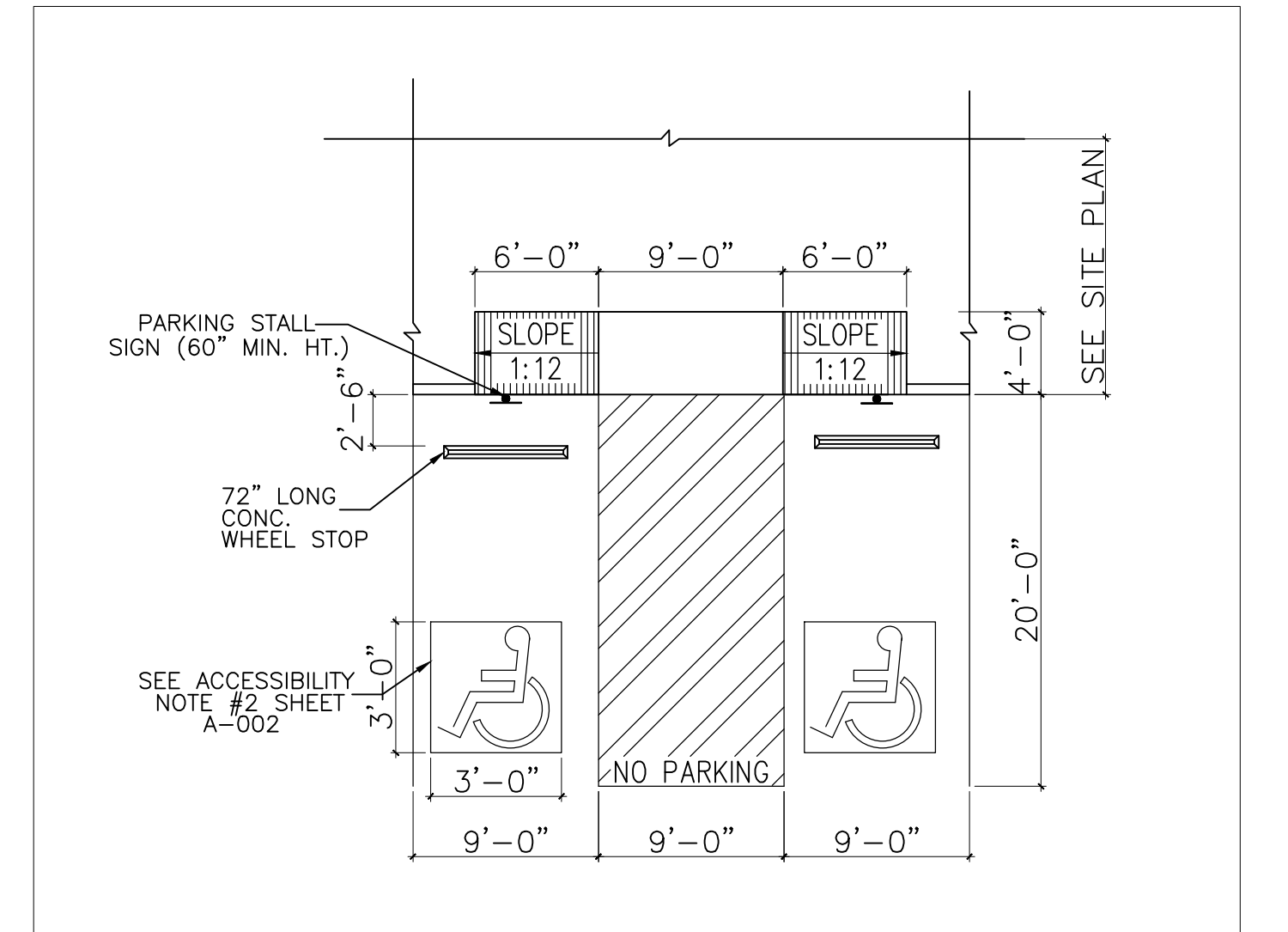
THIS SIGN SHALL READ IN 1" MIN LETTERS:

" UNAUTHORIZED VEHICLES PARKED IN DESIGNATED ACCESSIBLE SPACES NOT DISPLAYING DISTINGUISHING PLACARDS OR LICENSE PLATES ISSUED FOR PERSONS WITH DISABILITIES MAY BE TOWED AWAY AT OWNER'S EXPENSE.

SIGN TO BE POSTED IN A CONSPICUOUS PLACE, AT EACH ENTRANCE TO THE OFFSTREET PARKING FACILITY. 5 LOCATIONS.

SIGN SHALL BE PROVIDED IN ACCORDANCE WITH CHAPTER 216 OF 2012 TEXAS ACCESSIBILITY STANDARDS AND SHALL COMPLY WITH CHAPTER 703. INFORMATION SHALL BE PERMANENT PART OF THE SIGN.

DISABLED ACCESS SIGN AND DISABLED ACCESS ENTRY SIGN N.T.S



90° ACCESSIBLE PARKING N.T.S

ACCESSIBILITY NOTES

TOILET ACCESSORIES	A (ADULT)
TOILET CENTER LINE FROM WALL	18"
TOILET SEAT HEIGHT	17"-19"
GRAB BAR HEIGHT (SIDE)	33"
TOILET PAPER IN FRONT OF TOILET	15"-48"
DISPENSER OR MIRROR	40" MAX.
LAVATORY/SINK TOP HEIGHT	34" MAX.
LAVATORY/SINK KNEE CLEARANCE	29" MIN.
URINAL LIP HEIGHT	17" MAX.
URINAL FLUSH HANDLE HEIGHT	44" MAX.

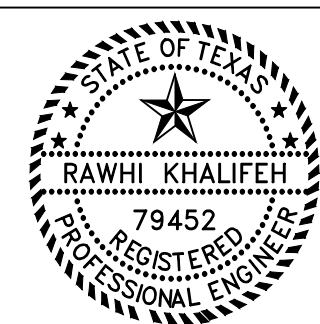
ACCESSIBLE RAMP NO.3

TYPICAL PLUMBING FIXTURES & ACCESSORIES INFORMATON

N.T.S

90° ACCESSIBLE PARKING

N.T.S



12/14/2022

ISSUE HISTORY		REVISIONS	
DATE	ISSUED FOR	DESCRIPTION	
5-16-22	ISSUE FOR PERMITTING	CONSTRUCTION DRAWINGS	
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-	-	-	-
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BRYAN, TX 77807

ACCESSIBILITY DETAILS AND NOTES

DRAWN BY: BM	DATE: 9-15-2021	SHEET:
CHECKED BY: RSK	PROJ. NO.: VR151003.317.4	A-003 Rev.0

603 Toilet and Bathing Rooms
 603.2 Clearances. Clearances shall comply with 603.2.
 603.2.1 Turning Space. Turning space complying with 304 shall be provided within the room.
 603.2.2 Overlap. Required clear floor spaces, clearance at fixtures, and turning space shall be permitted to overlap.
 603.2.3 Door Swing. Doors shall not swing into the clear floor space or clearance required for any fixture. Doors shall be permitted to swing into the required turning space.
 603.3 Mirrors. Mirrors located above lavatories or countertops shall be installed with the bottom edge of the reflecting surface 40 inches (1015 mm) maximum above the finish floor or ground. Mirrors not located above lavatories or countertops shall be installed with the bottom edge of the reflecting surface 35 inches (890 mm) maximum above the finish floor or ground.
 603.4 Coat Hooks and Shelves. Coat hooks shall be located within one of the reach ranges specified in 308. Shelves shall be located 40 inches (1015 mm) minimum and 48 inches (1220 mm) maximum above the finish floor.
 604 Water Closets and Toilet Compartments
 604.2 Location. The water closet shall be positioned with a wall or partition to the rear and to one side. The centerline of the water closet shall be 16 inches (405 mm) minimum to 18 inches (455 mm) maximum from the side wall or partition, except that the water closet shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum from the side wall or partition in the ambulatory accessible toilet compartment specified in 604.8.2. Water closets shall be arranged for a left-hand or right-hand approach.

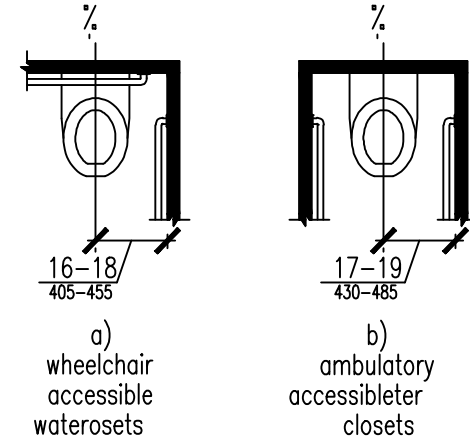


Figure 604.2 Water Closet Location

604.3.1 Size. Clearance around a water closet shall be 60 inches (1525 mm) minimum measured perpendicular from the side wall and 56 inches (1420 mm) minimum measured perpendicular from the rear wall.

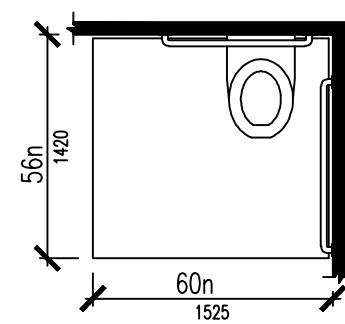


Figure 604.3.1 Size of Clearance at Water Closets

604.3.2 Overlap. The required clearance around the water closet shall be permitted to overlap the water closet, associated grab bars, dispensers, sanitary napkin disposal units, coat hooks, shelves, accessible routes, clear floor space and clearances required at other fixtures, and the turning space. No other fixtures or obstructions shall be located within the required water closet clearance.

604.4 Seats. The seat height of a water closet above the finish floor shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum measured to the top of the seat. Seats shall not be sprung to return to a lifted position.

604.5 Grab Bars. Grab bars for water closets shall comply with 609. Grab bars shall be provided on the side wall closest to the water closet and on the rear wall.

604.5.1 Side Wall. The side wall grab bar shall be 42 inches (1065 mm) long minimum, located 12 inches (305 mm) maximum from the rear wall and extending 54 inches (1370 mm) minimum from the rear wall.

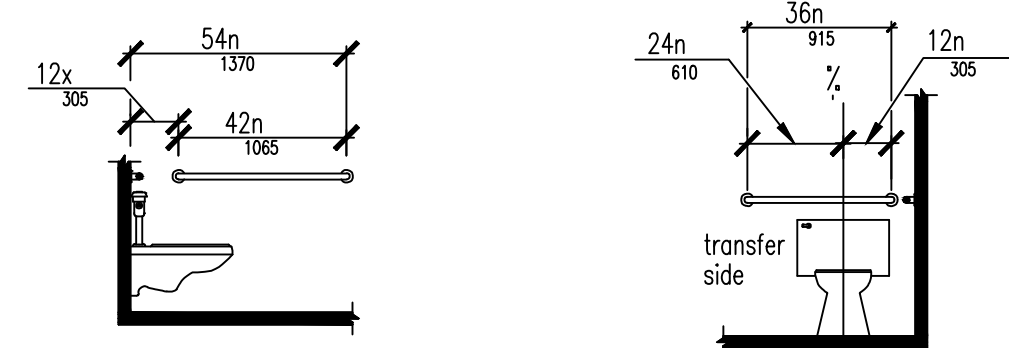


Figure 604.5.1 Side Wall Grab Bar at Water Closets Figure 604.5.2 Rear Wall Grab Bar at Water Closets

604.5.2 Rear Wall. The rear wall grab bar shall be 36 inches (915 mm) long minimum and extend from the centerline of the water closet 12 inches (305 mm) minimum on one side and 24 inches (610 mm) minimum on the other side.

604.6 Flush Controls. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with 309. Flush controls shall be located on the open side of the water closet except in ambulatory accessible compartments complying with 604.8.2.

604.7 Dispensers. Toilet paper dispensers shall comply with 309.4 and shall be 7 inches (180 mm) minimum and 9 inches (230 mm) maximum in front of the water closet measured to the centerline of the dispenser. The outlet of the dispenser shall be 15 inches (380 mm) minimum and 48 inches (1220 mm) maximum above the finish floor and shall not be located behind grab bars. Dispensers shall not be of a type that controls delivery or that does not allow continuous paper flow.

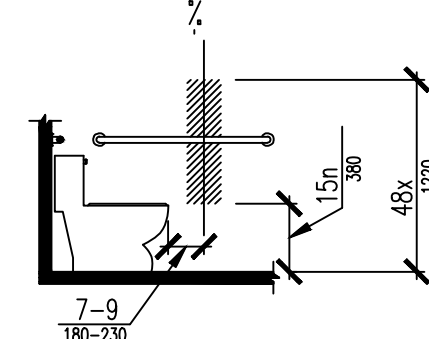


Figure 604.7 Dispenser Outlet Location

604.8 Toilet Compartments. Wheelchair accessible toilet compartments shall meet the requirements of 604.8.1 and 604.8.3. Compartments containing more than one plumbing fixture shall comply with 603. Ambulatory accessible compartments shall comply with 604.8.2 and 604.8.3.

604.8.1 Wheelchair Accessible Compartments. Wheelchair accessible compartments shall comply with 604.8.1.

604.8.1.1 Size. Wheelchair accessible compartments shall be 60 inches (1525 mm) wide minimum measured perpendicular to the side wall, and 56 inches (1420 mm) deep minimum for wall hung water closets and 59 inches (1500 mm) deep minimum for floor mounted water closets measured perpendicular to the rear wall. Wheelchair accessible compartments for children's use shall be 60 inches (1525 mm) wide minimum measured perpendicular to the side wall, and 59 inches (1500 mm) deep minimum for wall hung and floor mounted water closets measured perpendicular to the rear wall.

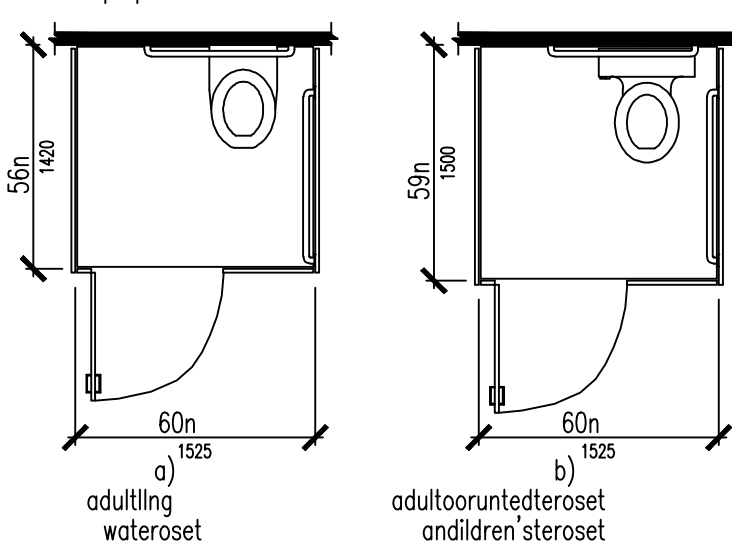


Figure 604.8.1.1 Size of Wheelchair Accessible Toilet Compartment

604.8.1.2 Doors. Toilet compartment doors, including door hardware, shall comply with 404 except that if the approach is to the latch side of the compartment door, clearance between the door side of the compartment and any obstruction shall be 42 inches (1065 mm) minimum. Doors shall be located in the front partition or in the side wall or partition farthest from the water closet. Where located in the front partition, the door opening shall be 4 inches (100 mm) maximum from the side wall or partition farthest from the water closet. Where located in the side wall or partition, the door opening shall be 4 inches (100 mm) maximum from the front partition. The door shall be self-closing. A door pull complying with 404.2.7 shall be placed on both sides of the door near the latch. Toilet compartment doors shall not swing into the minimum required compartment area.

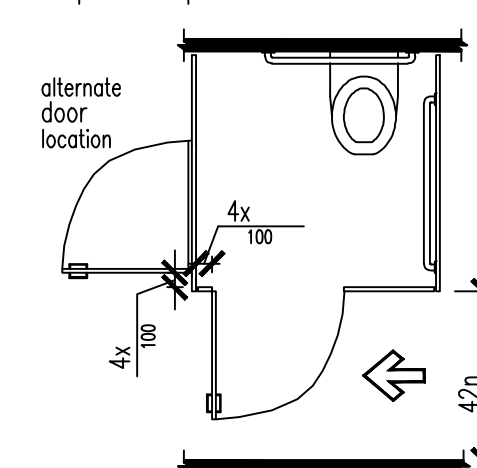


Figure 604.8.1.2 Wheelchair Accessible Toilet Compartment Doors

604.8.1.3 Approach. Compartments shall be arranged for left-hand or right-hand approach to the water closet.

604.8.1.4 Toe Clearance. The front partition and at least one side partition shall provide a toe clearance of 9 inches (230 mm) minimum above the finish floor and 6 inches (150 mm) deep minimum beyond the compartment-side face of the partition, exclusive of partition support members. Compartments for children's use shall provide a toe clearance of 12 inches (305 mm) minimum above the finish floor.

EXCEPTION: Toe clearance at the front partition is not required in a compartment greater than 62 inches (1575 mm) deep with a wall-hung water closet or 65 inches (1650 mm) deep with a floor-mounted water closet. Toe clearance at the side partition is not required in a compartment greater than 66 inches (1675 mm) wide. Toe clearance at the front partition is not required in a compartment for children's use that is greater than 65 inches (1650 mm) deep.

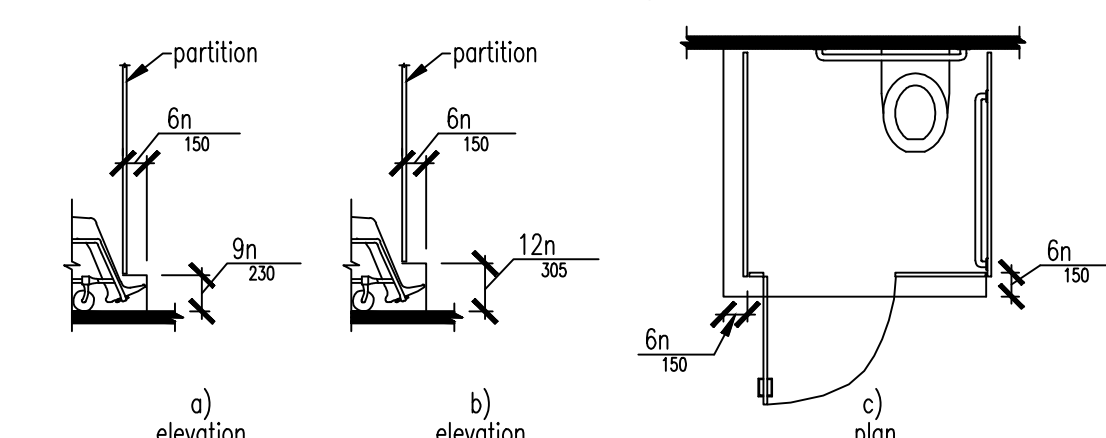


Figure 604.8.1.4 Wheelchair Accessible Toilet Compartment Toe Clearance

604.8.1.5 Grab Bars. Grab bars shall comply with 609. A side-wall grab bar complying with 604.5.1 shall be provided and shall be located on the wall closest to the water closet. In addition, a rear-wall grab bar complying with 604.5.2 shall be provided.

604.8.2 Ambulatory Accessible Compartments. Ambulatory accessible compartments shall comply with 604.8.2.

604.8.2.1 Size. Ambulatory accessible compartments shall have a depth of 60 inches (1525 mm) minimum and a width of 35 inches (890 mm) minimum and 37 inches (940 mm) maximum.

604.8.2.2 Doors. Toilet compartment doors, including door hardware, shall comply with 404, except that if the approach is to the latch side of the compartment door, clearance between the door side of the compartment and any obstruction shall be 42 inches (1065 mm) minimum. The door shall be self-closing. A door pull complying with 404.2.7 shall be placed on both sides of the door near the latch. Toilet compartment doors shall not swing into the minimum required compartment area.

604.8.2.3 Grab Bars. Grab bars shall comply with 609. A side-wall grab bar complying with 604.5.1 shall be provided on both sides of the compartment.

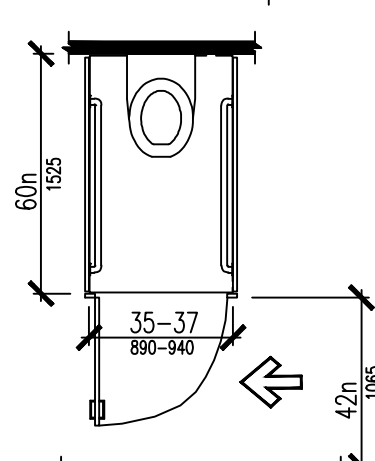


Figure 604.8.2.3 Ambulatory Accessible Toilet Compartment

604.8.3 Coat Hooks and Shelves. Coat hooks shall be located within one of the reach ranges specified in 308. Shelves shall be located 40 inches (1015 mm) minimum and 48 inches (1220 mm) maximum above the finish floor.

604.9 Water Closets and Toilet Compartments for Children's Use. Water closets and toilet compartments for children's use shall comply with 604.9.

604.9.1 Location. The water closet shall be located with a wall or partition to the rear and to one side. The centerline of the water closet shall be 12 inches (305 mm) minimum and 18 inches (455 mm) maximum from the side wall or partition, except that the water closet shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum from the side wall or partition in the ambulatory accessible toilet compartment specified in 604.8.2. Compartments shall be arranged for left-hand or right-hand approach to the water closet.

604.9.2 Clearance. Clearance around a water closet shall comply with 604.3.

604.9.3 Height. The height of water closets shall be 11 inches (280 mm) minimum and 17 inches (430 mm) maximum measured to the top of the seat. Seats shall not be sprung to return to a lifted position.

604.9.4 Grab Bars. Grab bars for water closets shall comply with 604.5.

604.9.5 Flush Controls. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with 309.2 and 309.4 and shall be installed 36 inches (915 mm) maximum above the finish floor. Flush controls shall be located on the open side of the water closet except in ambulatory accessible compartments complying with 604.8.2.

604.9.6 Dispensers. Toilet paper dispensers shall comply with 309.4 and shall be 7 inches (180 mm) minimum and 9 inches (230 mm) maximum in front of the water closet measured to the centerline of the dispenser. The outlet of the dispenser shall be 14 inches (355 mm) minimum and 19 inches (485 mm) maximum above the finish floor. There shall be a clearance of 1 1/2 inches (38 mm) minimum below the grab bar. Dispensers shall not be of a type that controls delivery or that does not allow continuous paper flow.

604.9.7 Toilet Compartments. Toilet compartments shall comply with 604.8.

605 Urinals

605.2 Height and Depth. Urinals shall be the stall-type or the wall-hung type with the rim 17 inches (430 mm) maximum above the finish floor or ground. Urinals shall be 13 1/2 inches (345 mm) deep minimum measured from the outer face of the urinal rim to the back of the fixture.

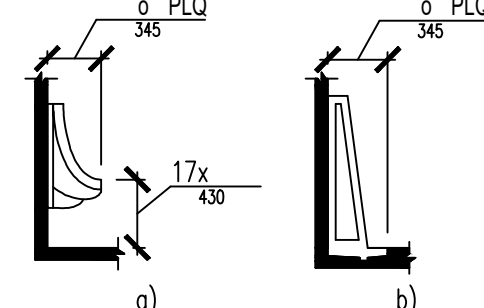


Figure 605.2 Height and Depth of Urinals

605.3 Clear Floor Space. A clear floor or ground space complying with 305 positioned for forward approach shall be provided.

605.4 Flush Controls. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with 309.

606 Lavatories and Sinks

606.2 Clear Floor Space. A clear floor space complying with 305, positioned for a forward approach, and knee and toe clearance complying with 306 shall be provided.

606.3 Height. Lavatories and sinks shall be installed with the front of the higher of the rim or counter surface 34 inches (865 mm) maximum above the finish floor or ground.

606.4 Faucets. Controls for faucets shall comply with 309. Hand-operated metering faucets shall remain open for 10 seconds minimum.

606.5 Exposed Pipes and Surfaces. Water supply and drain pipes under lavatories and sinks shall be insulated or otherwise configured to protect against contact. There shall be no sharp or abrasive surfaces under lavatories and sinks.

705 Detectable Warnings
 705.1 General. Detectable warnings shall consist of a surface of truncated domes and shall comply with 705.

705.1.1 Dome Size. Truncated domes in a detectable warning surface shall have a base diameter of 0.9 inch (23 mm) minimum and 1.4 inches (36 mm) maximum, a top diameter of 50 percent of the base diameter minimum to 65 percent of the base diameter maximum, and a height of 0.2 inch (5.1 mm).

705.1.2 Dome Spacing. Truncated domes in a detectable warning surface shall have a center-to-center spacing of 1.6 inches (41 mm) minimum and 2.4 inches (61 mm) maximum, and a base-to-base spacing of 0.65 inch (17 mm) minimum, measured between the most adjacent domes on a square grid.

705.1.3 Contrast. Detectable warning surfaces shall contrast visually with adjacent walking surfaces either light-on-dark, or dark-on-light.

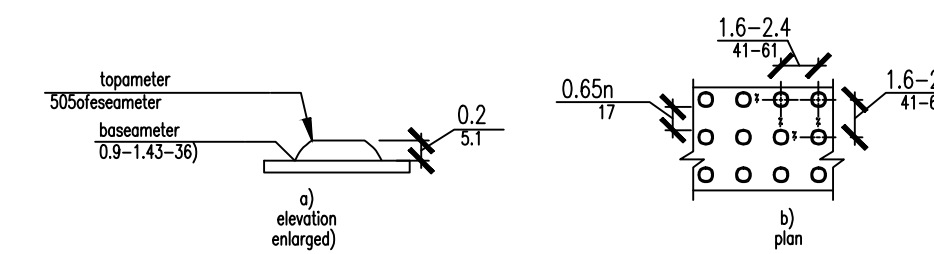


Figure 705.1 Size and Spacing of Truncated Domes

705.2 Platform Edges. Detectable warning surfaces at platform boarding edges shall be 24 inches (610 mm) wide and shall extend the full length of the public use areas of the platform.

BOBRICI Technical Data

1 1/2" (32mm) DIAMETER STAINLESS STEEL GRAB BARS WITH SNAP FLANGE

B-580616 SERIES

Specify Finish Required: Satin finish Satin finish with peened gripping surface; add suffix .99 to model number

NOTE: GRAB BARS IS DESIGNED FOR 250 LB IN CONCENTRATED LOAD IN ANY DIRECTION AS PER IBC CODE SECTION 1607.7.2.

End Mounting Flange Intermediate Flange

HORIZONTAL VERTICAL

B-5806 x 18, 24, 30, 36, 42, 48

TWO-WALL TUB (SHOWER) TOILET COMPARTMENT BAR B-5837

HORIZONTAL TUB (SHOWER) TOILET COMPARTMENT BAR 24 x 36 B-5816

TWO-WALL TOILET COMPARTMENT BAR 42 x 54 B-5897

ANCHORAGE GRAB BARS AND CABINET

continued...

FASTEN AT BOTH ENDS WITH MIN. 4 TAPPING SCREWS.

CUT HORIZONTAL FASTENER FROM STUD

VERTICAL WALL STUDS AT 16" [406mm] OR 24" [610mm] O.C.

ISOMETRIC

WALL FINISH

PLAN

GENERAL NOTES:

1. CONTRACTOR SHALL COORDINATE LOCATIONS OF HORIZONTAL FASTENERS.

ANCHORAGE - GRAB BARS AND CABINETS

Department of Veterans Affairs

DATE ISSUED: DECEMBER 2008 CAD DETAIL NO.: SD055000-02.DWG

SCALE: NONE

GRAPHIC SCALE

STATE OF TEXAS

RAWHI KHALIFEH

79452

REGISTERED PROFESSIONAL ENGINEER

12/14/2022

ISSUE HISTORY		REVISIONS	
DATE	ISSUED FOR	DESCRIPTION	
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RSK ENGINEERING

ENGINEERS, CONSTRUCTION MANAGERS, PLANNERS

11302 TANNER RD. HOUSTON, TEXAS 77041

FIRM # F-11211

TEL. (281) 580-4585 FAX (281) 580-4399

VILLA MARIA GAS STATION

1919 WEST VILLA MARIA ROAD BRYAN, TX 77807

ACCESSIBILITY DETAILS AND NOTES

DRAWN BY: BM DATE: 9-15-2021 SHEET: A-004

CHECKED BY: RSK PROJ. NO.: VR151003.317.4 Rev.0

LEGEND :

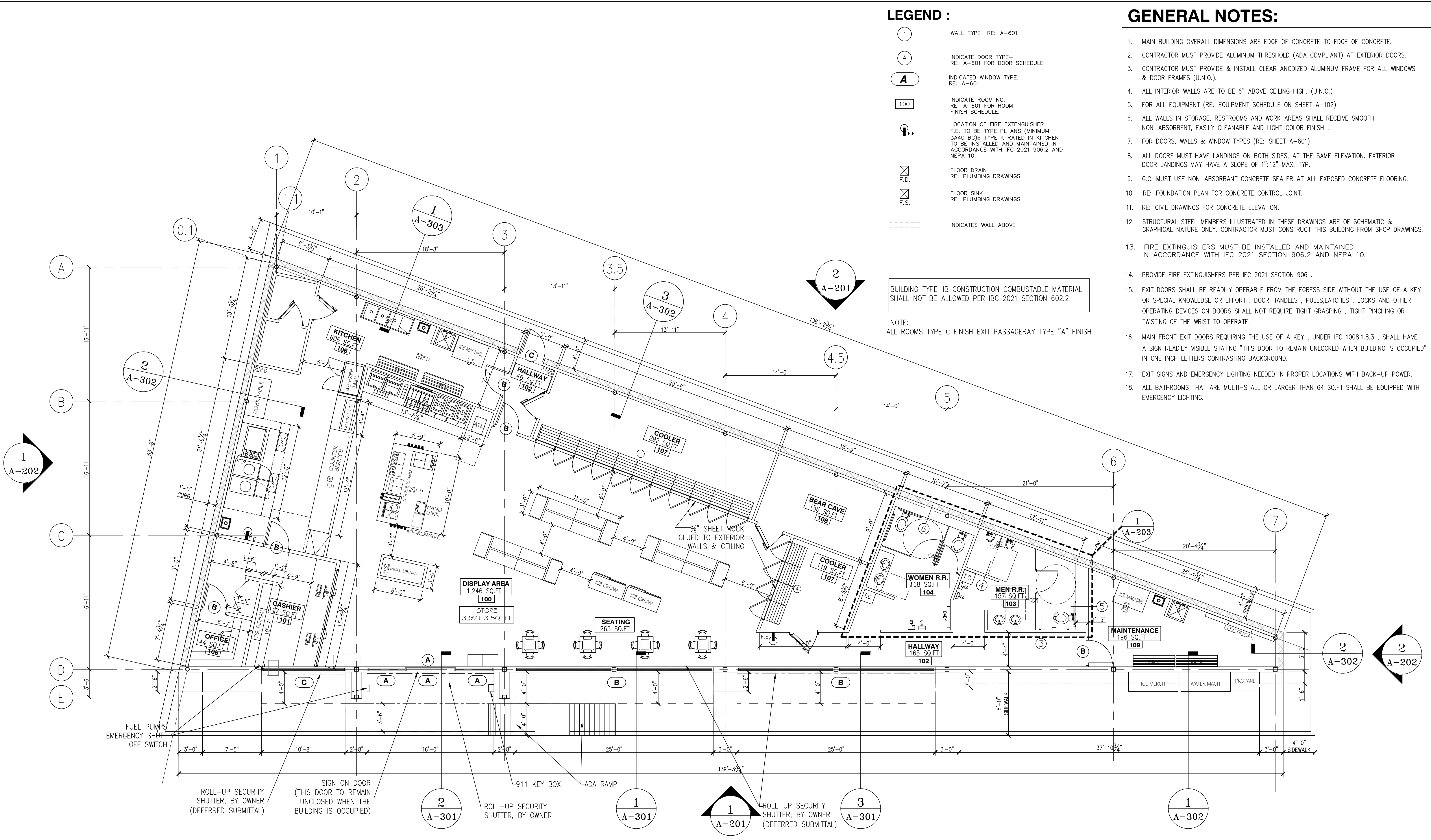
- ① WALL TYPE RE: A-601
- Ⓐ INDICATE DOOR TYPE--
RE: A-601 FOR DOOR SCHEDULE
- Ⓐ INDICATED WINDOW TYPE.
RE: A-601
- 100 INDICATE ROOM NO.--
RE: A-601 FOR ROOM
FINISH SCHEDULE.
- F.E. LOCATION OF FIRE EXTINGUISHER
F.E. TO BE TYPE PL ANS (MINIMUM
3A40 BC) TYPE K RATED IN KITCHEN
TO BE INSTALLED AND MAINTAINED IN
ACCORDANCE WITH IFC 2021 906.2 AND
NEPA 10.
- F.D. FLOOR DRAIN
RE: PLUMBING DRAWINGS
- F.S. FLOOR SINK
RE: PLUMBING DRAWINGS
- INDICATES WALL ABOVE

GENERAL NOTES:

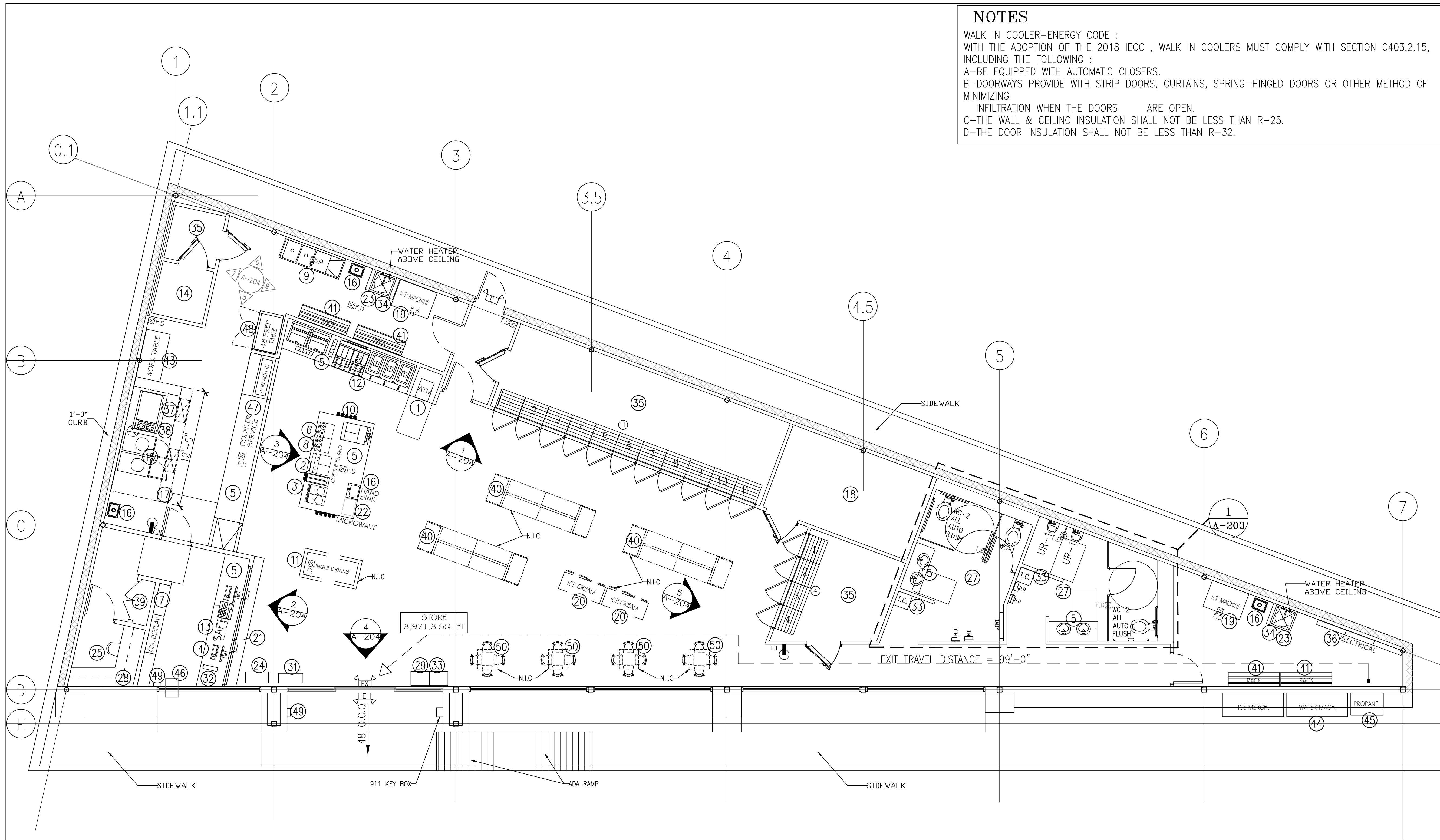
1. MAIN BUILDING OVERALL DIMENSIONS ARE EDGE OF CONCRETE TO EDGE OF CONCRETE.
2. CONTRACTOR MUST PROVIDE ALUMINUM THRESHOLD (ADA COMPLIANT) AT EXTERIOR DOORS.
3. CONTRACTOR MUST PROVIDE & INSTALL CLEAR ANODIZED ALUMINUM FRAME FOR ALL WINDOWS & DOOR FRAMES (U.N.O.).
4. ALL INTERIOR WALLS ARE TO BE 6" ABOVE CEILING HIGH. (U.N.O.)
5. FOR ALL EQUIPMENT (RE: EQUIPMENT SCHEDULE ON SHEET A-102)
6. ALL WALLS IN STORAGE, RESTROOMS AND WORK AREAS SHALL RECEIVE SMOOTH, NON-ABSORBENT, EASILY CLEANABLE AND LIGHT COLOR FINISH .
7. FOR DOORS, WALLS & WINDOW TYPES (RE: SHEET A-601)
8. ALL DOORS MUST HAVE LANDINGS ON BOTH SIDES, AT THE SAME ELEVATION. EXTERIOR DOOR LANDINGS MAY HAVE A SLOPE OF 1":12" MAX. TYP.
9. G.C. MUST USE NON-ABSORBANT CONCRETE SEALER AT ALL EXPOSED CONCRETE FLOORING.
10. RE: FOUNDATION PLAN FOR CONCRETE CONTROL JOINT.
11. RE: CIVIL DRAWINGS FOR CONCRETE ELEVATION.
12. STRUCTURAL STEEL MEMBERS ILLUSTRATED IN THESE DRAWINGS ARE OF SCHEMATIC & GRAPHICAL NATURE ONLY. CONTRACTOR MUST CONSTRUCT THIS BUILDING FROM SHOP DRAWINGS.
13. FIRE EXTINGUISHERS MUST BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH IFC 2021 SECTION 906.2 AND NEPA 10.
14. PROVIDE FIRE EXTINGUISHERS PER IFC 2021 SECTION 906 .
15. EXIT DOORS SHALL BE READILY OPERABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT . DOOR HANDLES , PULLS,LATCHES , LOCKS AND OTHER OPERATING DEVICES ON DOORS SHALL NOT REQUIRE TIGHT GRASPING , TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE.
16. MAIN FRONT EXIT DOORS REQUIRING THE USE OF A KEY , UNDER IFC 1008.1.8.3 , SHALL HAVE A SIGN READILY VISIBLE STATING "THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED" IN ONE INCH LETTERS CONTRASTING BACKGROUND.
17. EXIT SIGNS AND EMERGENCY LIGHTING NEEDED IN PROPER LOCATIONS WITH BACK-UP POWER.
18. ALL BATHROOMS THAT ARE MULTI-STALL OR LARGER THAN 64 SQ.FT SHALL BE EQUIPPED WITH EMERGENCY LIGHTING.

BUILDING TYPE IIB CONSTRUCTION COMBUSTABLE MATERIAL SHALL NOT BE ALLOWED PER IBC 2021 SECTION 602.2

NOTE:
ALL ROOMS TYPE C FINISH EXIT PASSAGERAY TYPE "A" FINISH



<p>SCALE: 3/16" = 1'-0"</p> <p>GRAPHIC SCALE</p>		<p>12/14/2022</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">ISSUE HISTORY</th> <th colspan="2">REVISIONS</th> </tr> <tr> <th>DATE</th> <th>ISSUED FOR</th> <th>DESCRIPTION</th> <th></th> </tr> </thead> <tbody> <tr> <td>5-16-22</td> <td>ISSUE FOR PERMITTING</td> <td>CONSTRUCTION DRAWINGS</td> <td></td> </tr> <tr> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> </tbody> </table>	ISSUE HISTORY		REVISIONS		DATE	ISSUED FOR	DESCRIPTION		5-16-22	ISSUE FOR PERMITTING	CONSTRUCTION DRAWINGS		-	-	-	-	-	-	-	-	-	-	-	-	<p>RSK ENGINEERING ENGINEERS, CONSTRUCTION MANAGERS, PLANNERS</p> <p>11302 TANNER RD. TEL: (281) 580-4585 HOUSTON, TEXAS 77041 FAX: (281) 580-4399 FIRM # F-11211</p>	<p>VILLA MARIA GAS STATION 1919 WEST VILLA MARIA ROAD BRYAN, TX 77807</p> <p>STORE FLOOR PLAN</p> <p>DRAWN BY: BM DATE: 9-15-2021 SHEET: CHECKED BY: RSK PROJ. NO.: VR151003.317.4 A-101 Rev.0</p>
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NOTES
 WALK IN COOLER-ENERGY CODE :
 WITH THE ADOPTION OF THE 2018 IECC , WALK IN COOLERS MUST COMPLY WITH SECTION C403.2.15,
 INCLUDING THE FOLLOWING :
 A-BE EQUIPPED WITH AUTOMATIC CLOSERS.
 B-DOORWAYS PROVIDE WITH STRIP DOORS, CURTAINS, SPRING-HINGED DOORS OR OTHER METHOD OF
 MINIMIZING
 INFILTRATION WHEN THE DOORS ARE OPEN.
 C-THE WALL & CEILING INSULATION SHALL NOT BE LESS THAN R-25.
 D-THE DOOR INSULATION SHALL NOT BE LESS THAN R-32.

STORE KEYED NOTES

- 01 ATM MACHINE BY OWNER
- 02 MILK SHACK
- 03 SLUSH MACHINE - (F'REAL MODEL: 11-CSGF-X1-FRRL)
- 04 CASH REGISTER
- 05 COUNTER, 34" HIGH, GRANITE - CONTRACTOR
- 06 3' W. CAPPUCCINO MACHINE - OWNER
- 07 12"-0" X 14" D. CIGARETTE RACKS VENDOR
- 08 3' W. COFFEE MACHINE - OWNER
- 09 3 COMPARTMENT SINK 15"X15"X12"(LXWXD) - CONTRACTOR
- 10 CUP-DISPENSER W/ LIDS AND STRAWS - CONTRACTOR
- 11 DRINK BOX
- 12 6' W. 12 HEAD DRINK DISPENSER W/ ICE (F'REAL MODEL: 11-CSGF-X1-FR2)
- 13 FLOOR SAFE
- 14 WALK IN FREEZER
- 15 2-40 LB FRYERS 15"-2" X 30" AUTO LIFT ELECTRIC
- 16 HAND SINK W/ PAPER TOWEL HOLDER - CONTRACTOR
- 17 12"-0" HOOD CAPTIVE AIR- CONTRACTOR
- 18 BEER CAVE
- 19 ICE MAKER MACHINES WDXH (24X21X27)(ICE-O-MATIC MODEL: GEMO650-PEARL ICE MAKER)
- 20 ICE MERCHANDISER-(TURBO AIR MODEL: TGF-72F(B))
- 21 MEDICINE DISPLAY - CONTRACTOR
- 22 MICROWAVE OVEN - AMANA COMERCIAL MICROWAVE MODEL RMS10DS
- 23 MOP SINK - CONTRACTOR
- 24 NEWSPAPER STAND
- 25 OFFICE - CONTRACTOR
- 26 PUMPS & CARBONATOR SYSTEM
- 27 REST ROOM SPACE WITH EQUIPMENT - CONTRACTOR
- 28 CABINETS ABOVE - CONTRACTOR
- 29 SHOPPING BASKETS
- 30 LOTTO MACHINE
- 31 SUNGLASS DISPLAY
- 32 TELEPHONE LINE - CONTRACTOR
- 33 TRASH RECEPTACLE, LAM. PLASTIC - CONTRACTOR
- 34 WATER HEATER ABOVE MOP SINK / ABOVE CEILING (AO-SMITH MODEL: DSE-100)
- 35 WALK IN COOLER
- 36 ELECTRICAL PANELS
- 37 4' FLAT GRILL - ROYAL RANGE OF CALIFORNIA RMC 48"
- 38 2 HEAD BURNER 24" GAS RESTAURANT RANGE - ROYAL RANGE OF CALIFORNIA RR-2612
- 39 CIGARETTES STORAGE
- 40 DISPLAY SHELVING
- 41 STANDING RACKS
- 42 CHECK CASHING REGISTER
- 43 STAINLESS STEEL WORKTABLE ADVANCE TABCO SS303-30
- 44 REFILL WATER MACHINE
- 45 PROPANE TANK CAGE
- 46 NIGHT DROP BOX
- 47 4'-0" SERVICE-DELI COOK
- 48 PREP TABLE COOLER
- 49 EMERGENCY DISCONNECT FOR FUEL PUMPS SHUTT OFF (PER IFC2021 CH:23-SEC 2303.2)
- 50 TABLES & CHAIRS SEATING

LEGEND :

- ① INDICATE STORE EQUIPMENT
- ⚡ F.E. LOCATION OF FIRE EXTINGUISHER
F.E. TO BE TYPE PL ANS (MINIMUM 3A40 BC) 6 TYPE K RATED IN KITCHEN TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH IFC 2021 906.2 AND NEPA 10.
- ➔ TRAVEL DISTANCE ROUT
- ELEVATION# INTERIOR ELEVATIONS SEE A-204
- SHEET#
- EX COMBINATION EXIT AND EMERGENCY LIGHT FIXTURE (2-26 WATTS, 120 VOLTS) WITH BATTERY BACK-UP
- E EMERGENCY LIGHT FIXTURE (2-26 WATTS, 120 VOLTS) WITH BATTERY BACK-UP
- O.C.C. OCCUPANT LOAD
- N.I.C. NOT IN CONTRACT

COOLER NOTES

COOLER WALL CONSTRUCTION NOTES (IBC 2021 SECTION 2603.3)
 2021 IBC SECTION 2603.3 ALSO, FOR COOLERS UNDER 400 SQUARE FEET WITHIN NON-SPRINKLED BUILDING, MANUFACTURER INFORMATION SHALL SHOW THAT THE FOAM NON-SPRINKLED BUILDINGS, MANUFACTURER INFORMATION SHALL SHOW THAT THE FOAM INSULATION DOES NOT EXCEED 4 INCHES IN THICKNESS WITH A MAXIMUM FLAME SPREAD OF 75, AND THAT THE FOAM PLASTIC IS COVERED BY A METAL FACING NOT LESS THAN .032 INCH-THICK ALUMINUM OR CORROSION-RESISTANT STEEL WITH A MINIMUM BASE METAL THICKNESS UP TO 10 INCHES IS PERMITTED WHERE PROTECTED BY A THERMAL BARRIER. ALL SPECIFICATION SHH BE ESTABLISHED BY AN ACCREDITED TESTING AGENCY SUCH AS UL.

THERMAL BARRIER

USE 5/8" GYP/BD TYPE X ON ALL WALLS SURROUNDING MAIN COOLERS, AND IN CEILING ABOVE COOLER ROOF.

GENERAL NOTES

- 1- ALL EQUIPMENTS SHALL BE CERTIFIED OR COMPATIBLE BY ONE OF THE FOLLOWING: NSF, ULEPH, ETL OR SIMILARLY CERTIFIED FOR SANITATION OR COMPARABLE.
- 2- WALL AND CEILING COLOR SHALL HAVE MIN 40 LRV
- 3- CEILING IN KITCHEN AND FOUNTAIN DRINKS AREA SHOULD BE WHITE COLOR, SMOOTH, EASILY CLEARABLE AND NON-ABSORBENT SHEET ROCK PAINTED GLOSS TYPE.
- 4- WALLS IN KITCHEN AND BEHIND ALL SELF SERVICE DRINKS STATIONS ARE BEIGE COLORS CERAMIC TILE OR FRP FULL WALL HEIGHT. SEE A-204
- 5- THE STORE AND RESTAURANT ARE OPERATED BY SAME OWNER.
- 6- VERIFY EXACT REQUIREMENTS OF ELECTRICAL EQUIPMENT WITH OWNER FOR THIS PROJECT. IN CASE OF A DISCREPANCY BETWEEN THE ACTUAL SELECTION OF EQUIPMENT AND THOSE IN DRAWINGS, ADVISE THE OWNER BEFORE WORK BEGINS.
- 7- FIELD VERIFY ROUGH-IN LOCATIONS FOR ALL LIGHTS AND EQUIPMENT BEFORE INSTALLATION.
- 8- INSTALL A 2" CONDUIT FROM THE STORE TO CANOPY FOR CAMERA AND SPEAKER.
- 9- CONTRACTOR SHALL PROVIDE HEALTH DEPARTMENT WITH PHYSICAL SAMPLES OF CEILING, WALL TILES, WALL COVERING, PAINT CHIPS IF OTHER THAN WHITE PAINT IN AREAS WHERE ROOM FINISH CODE APPLIES (FOOD, BEVERAGE, PREP, STOVE SERVICE, DISPLAY, WARE-WASHING, ETC.) FOR VERIFICATION CODE COMPLIANCE. LABEL EACH SAMPLE INCLUDING PROJECT NUMBER, NAME AND CODE NUMBER OF THE COLOR TILE, ... ETC.
- 9- CONTRACTOR SHALL PROVIDE STAINLESS STEEL PLATE BEHIND COOKING EQUIPMENTS UNDER HOOD
- 10- CONTRACTOR SHALL INSTALL BACKFLOW PREVENTOR AT ALL BEVERAGE DISPENSERS MANUFACTURER SPECIFICATIONS OF INSTALLATION GUIDE ATTACHED IN SPECIFICATIONS

NOTES
 CEILING IN FOOD PREPARATION, FOOD STORAGE, FOOD SERVICE, UTENSIL WASHING AND UTENSIL STORAGE TO BE SMOOTH, NONABSORBENT, EASILY CLEANABLE, AND LIGHT COLORED (40 LRV OR GREATER).

NOTE
 THE WALL BEHIND ALL THE SELF-SERVE DRINK STATIONS WILL HAVE LIGHT COLORED IMPERVIOUS WALL COVER CERAMIC UP TO CEILING

NOTES
 1-FOOD ESTABLISHMENT PERMIT AND INSPECTION REQUIRED PRIOR TO OPERATION SEE NOTE ON A-601 .
 2-AT LEAST ONE CERTIFIED MANAGER SHALL BE PRESENT AT ALL TIMES AT ALL FOOD EMPLOYEES SHALL HAVE A FOOD HANDLER CARD ON SITE FOR INSPECTION .

SCALE: 3/16" = 1'-0"

GRAPHIC SCALE

12/14/2022

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RSK ENGINEERING
 ENGINEERS, CONSTRUCTION MANAGERS, PLANNERS

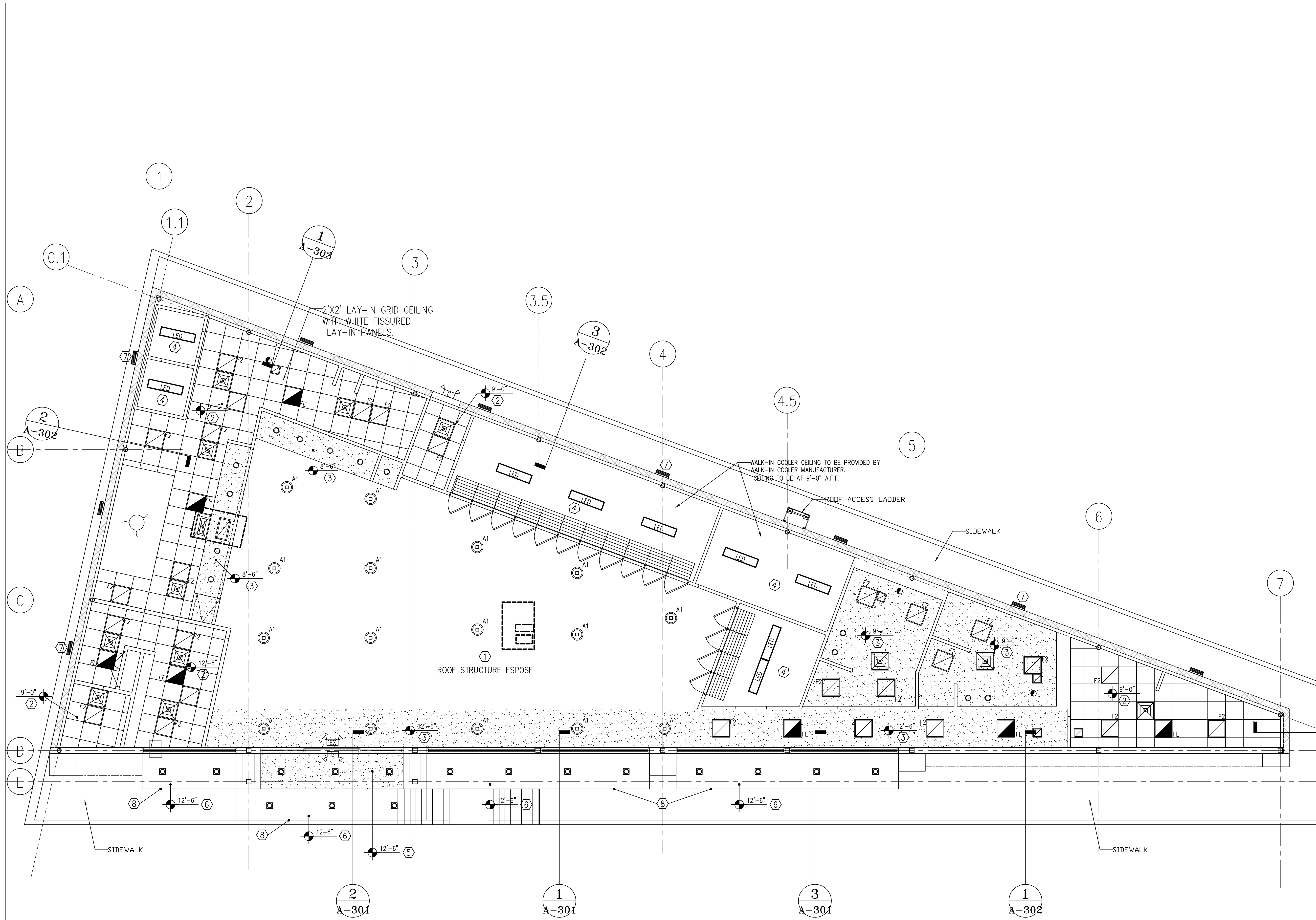
11302 TANNER RD. TEL. (281) 580-4585
 HOUSTON, TEXAS 77041 FAX (281) 580-4399

FIRM # F-11211

VILLA MARIA GAS STATION
 1919 WEST VILLA MARIA ROAD
 BRYAN , TX 77807

EQUIPMENT & LIFE SAFETY PLAN

DRAWN BY: BM DATE: 9-15-2021 SHEET:
 CHECKED BY: RSK PROJ. NO.: VR151003.317.4 **A-102** Rev.0



- ### KEYED NOTES
- ① ROOF STRUCTURE EXPOSED
 - ② 2'x2' VINYL FACED CEILING TILE @ 9'-0" A.F.F. SMOOTH NON-ABSORBANT & EASILY CLEANABLE & LIGHT IN COLOR (40 LRV OR GREATER) & SMOOTH
 - ③ FURR-DOWN SOFFIT BOARD CEILING PRIME & PAINTED WITH 2 COAT LATEX SMOOTH (40 LRV OR GREATER), STANDARD COLOR COORDINATE SELECTION WITH OWNER
 - ④ COOLER CEILING BY MANUFACTURER
 - ⑤ CANOPIES SOFT STUCCO
 - ⑥ METAL PANELS
 - ⑦ EXTERIOR LIGHT FIXTURE TYP.
 - ⑧ LINE OF CANOPY ABOVE

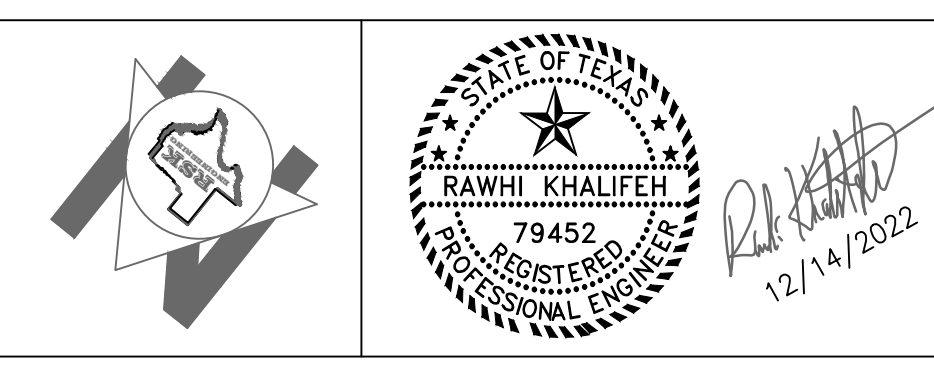
- ### LEGEND
- A1 LED STAR LIGHTING 150W LED HIGH BAY 5,000K
 - FE 2'x2' 50W LED STAR LIGHTING WITH BATTERY PACK RE: ELECTRICAL DWG.
 - F2 2'x2' 50W LED STAR LIGHTING RE: ELECTRICAL DWG.
 - GYP. BOARD CEILING
 - 2'x2' CEILING GRID
 - 2'x2' RETURN A/C GRILL
 - 1'x4' SURFACE MOUNTED LED FIXTURE
 - OUTDOOR WALL MTD. INC. LT. FIXTURE (2-75 WATT, 120V)
 - 20W LED RECESSED CAN DOWN LIGHT
 - CANOPY LIGHT 16" SQUARE SPECULAR REFLECTOR TEMPERED GLASS LENS
 - EX COMBINATION EXIT AND EMERGENCY LIGHT FIXTURE (2-26 WATTS, 120 VOLTS) WITH BATTERY BACK-UP
 - E EMERGENCY LIGHT FIXTURE (2-26 WATTS, 120 VOLTS) WITH BATTERY BACK-UP
 - J "J" BOX
 - 2'x2' A/C VENT AIR SUPPLY (RE: MECHANICAL PLANS)
 - EXHAUST FAN (RE: MECHANICAL PLANS)
 - CEILING ELEVATION
 - HOOD LIGHT FIXTURE

GENERAL NOTES

1. ALL LIGHT FIXTURES ARE LED. RE: ELECTRICAL DRAWINGS.

SCALE: 3/16" = 1'-0"

GRAPHIC SCALE

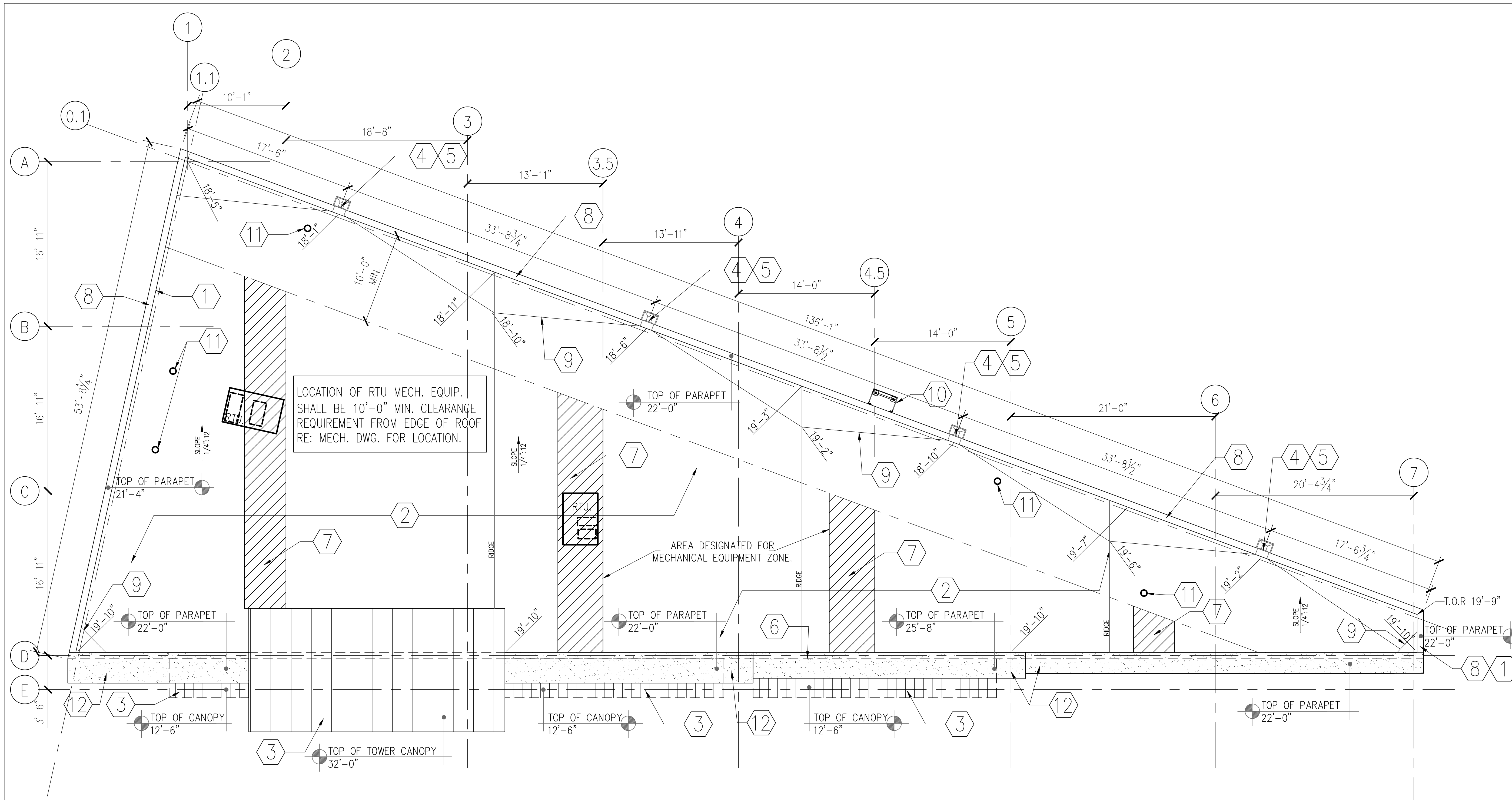


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 FIRM # F-11211

VILLA MARIA GAS STATION
 1919 WEST VILLA MARIA ROAD
 BRYAN, TX 77807
REFLECTED CEILING PLAN

DRAWN BY: BM DATE: 9-15-2021 SHEET:
 CHECKED BY: RSK PROJ. NO.: VR151003.317.4 **A-103** Rev.0



KEYED NOTES

- ① PARAPET WALL (REFER TO ELEVATIONS FOR HEIGHT)
- ② 60 MIL. T.P.O. ROOFING SYSTEM
4" RIDING INSULATION OVER METAL DECK
- ③ CANOPY
- ④ SCUPPER
- ⑤ DOWNSPOUTS 6"x6" PAINTED (TYPICAL)
- ⑥ WALL BELOW
- ⑦ MECHANICAL AREA
- ⑧ METAL CAP GALVANIZED (TYP.)
- ⑨ ROOF CRICKET
- ⑩ ACCESS LEDGER
- ⑪ EXHAUST DUCT RE: MECHANICAL DRAWINGS
- ⑫ STANDING SEAM METAL ROOFING

NOTES:

ALL ROOF TOP EQUIPMENT TO BE SUPPLIED WITH CURBS AND MOUNTED WITH CANT STRIP & CRICKET AROUND IT.

AS PER 2015 IBC OR LATEST OVERFLOW DRAINS HAVING THE SAME SIZE AS THE ROOF DRAINS SHALL BE INSTALLED WITH THE INLET FLOW LINE LOCATED 2" ABOVE THE LOW POINT OF THE ROOF.

BUILT UP ROOFING SYSTEM WITH FLASHING SHEET EXTENDING UP PARAPET AND TERMINATED UNDER COPING.

ROOF CONTRACTOR TO USE JOHNS MANVILLE SINGLE PLY TPO 45 MILL. MECHANICALLY FASTENED ROOF SYSTEM (NO SUBSTITUTES)

INSTALLATION OF ROOFING SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS

ALL WOOD USED ON ROOF DECK TO BE PRESSURE TREATED, FIRE RATED.

FIRE RETARDANT WOOD TO BE USED IN LOCATIONS AS ALLOWED PER SECTION 603.1. - IBC 2015

ROOF TO HAVE A MINIMUM SLOPE OF 1/4" PER 1'-0" IN A HORIZONTAL RUN

ALL ROOF MOUNTED EQUIPMENT SHALL NOT EXCEED PARAPET HEIGHT.

CLASS C ROOF SYSTEM AS REQUIRED FOR TYPE 2-B CONSTRUCTION PER IBC 2015 TABLE 1505.1. SECTION 1505.4 INSULATION ENTIRELY ABOVE DECK: HIGH ALBEDO ROOF REQUIRED, 3-YEAR AGED SOLAR REFLECTANCE = 0.55, THERMAL EMITTANCE = 0.75(E).

NOTE:
ROOF SHALL HAVE A COOL ROOF COVERING THE EXTERIOR ROOF SURFACE SHALL MEET THE CRITERIA OF 2015 IECC TABLE C402.3 FOR 3 YEAR AGED 0.55 SOLAR REFLECTANCE & 0.75 THERMAL EMITTANCE OR A 3 YEAR AGED SOLAR REFLECTANCE INDEX 64. TEST METHODS AS FOLLOW:

AGED SOLAR REFLECTANCE TEST METHOD:
ASTM C1549, ASTM E903 ASTM E1918 OR CRRRC-1.

AGED THERMAL EMITTANCE TEST METHOD:
ASTM C1317, ASTM E408 OR CKRC-1 SOLAR REFLECTANCE INDEX (SRI) IN ACCORDANCE WITH ASTM E1980.

NOTE:

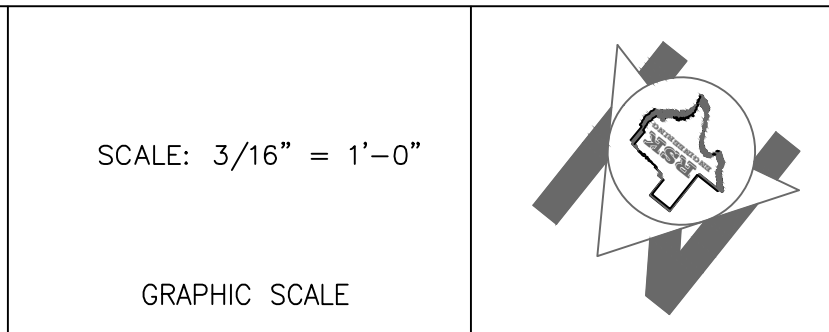
1-ROOF SYSTEM, WALLS SYSTEM AND FIXTURES SHALL COMPLY WITH MANUFACTURER SPECIFICATIONS AND REQUIREMENTS

2-MECHANICAL EQUIPMENT GUARDS - SECTION 1013.6-2015 IBC GUARDS SHALL BE PROVIDED WHERE APPLIANCES, EQUIPMENT, FANS, ROOF HATCH OPENING OR OTHER COMPONENTS THAT REQUIRE SERVICE ARE LOCATED WITHIN 10 FEET (3048 MM) OF A ROOF EDGE OR OPEN SIDE OF A WALKING SURFACE AND SUCH EDGE OR OPEN SIDE IS LOCATED MORE THAN 30 INCHES (762MM) ABOVE THE FLOOR, ROOF OR GRADE BELOW. THE GUARD SHALL BE CONSTRUCTED SO AS TO PREVENT THE PASSAGE OF 21-INCH DIAMETER (533MM) DIAMETER SPHERE. THE GUARD SHALL EXTEND NOT LESS THAN 30 INCHES BEYOND EACH END OF SUCH APPLIANCE, EQUIPMENT, FAN OR COMPONENT.

3-ALL ROOF ELEVATIONS SHOWN ARE FROM TOP OF FINISH FLOOR.

SCALE: 3/16" = 1'-0"

GRAPHIC SCALE



ISSUE HISTORY		REVISIONS	
DATE	ISSUED FOR	DESCRIPTION	
5-16-22	ISSUE FOR PERMITTING	CONSTRUCTION DRAWINGS	
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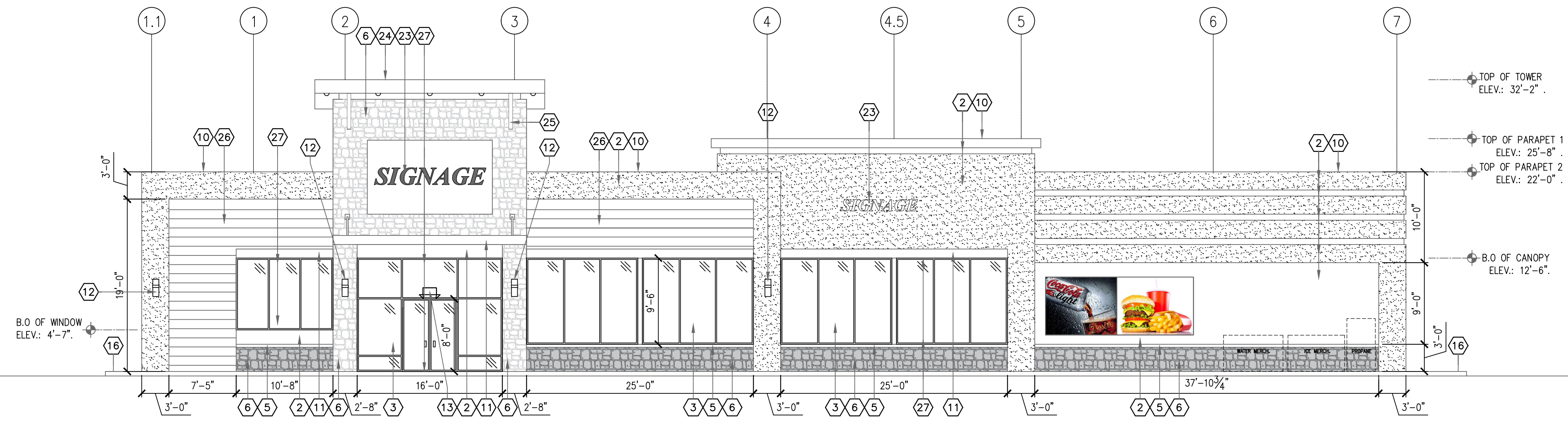
FIRM # F-11211

VILLA MARIA GAS STATION
1919 WEST VILLA MARIA ROAD
BRYAN, TX 77807

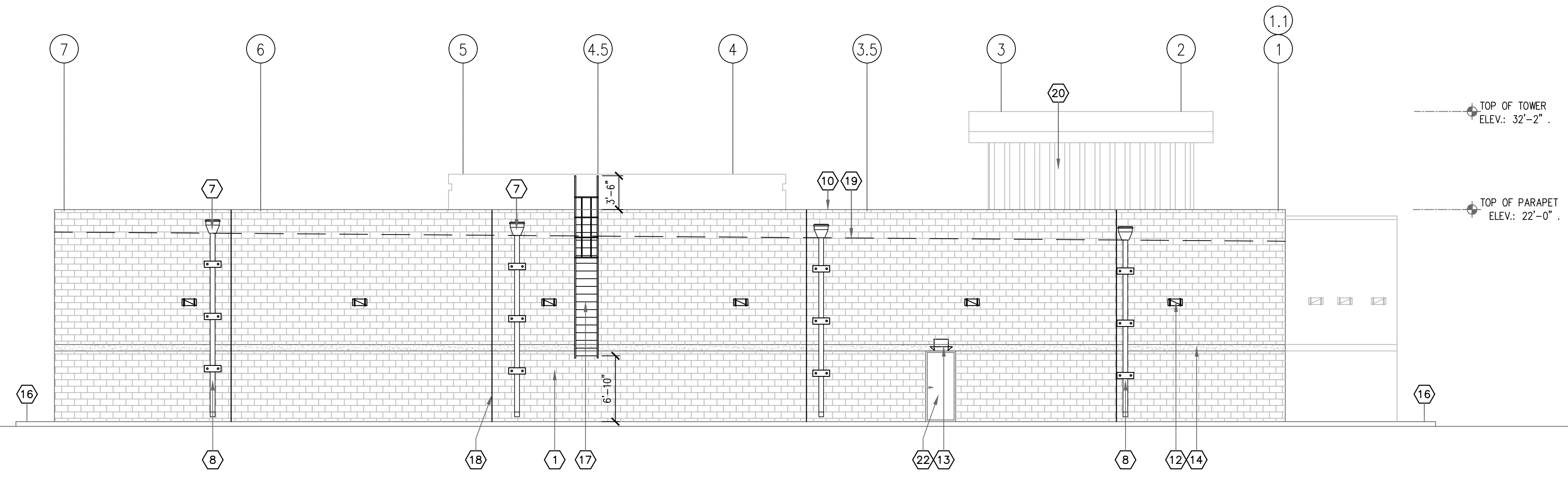
ROOF PLAN

DRAWN BY: BM DATE: 9-15-2021 SHEET: **A-104** Rev.0

CHECKED BY: RSK PROJ. NO.: VR151003.317.4



1 NORTH ELEVATION



2 SOUTH ELEVATION

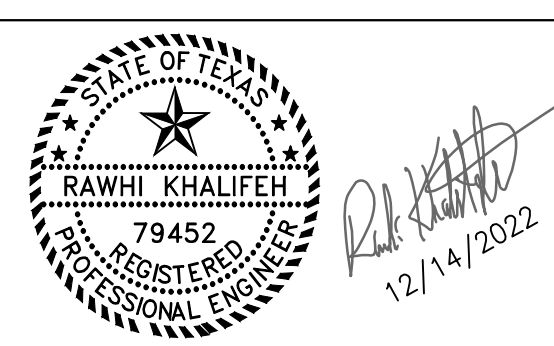
KEYED NOTES

- ① 8"x16" SMOOTH FACE CMU BLOCK, SEALED AND PAINTED (TYP.)
- ② 7/8" HARD COAT STUCCO RES: GENERAL NOTES
- ③ ALUMINUM TINTED INSULATED GALSS STORE FRONT
- ④ NOT USED
- ⑤ 3" CAST STONE
- ⑥ 2" STONE VENEER.
- ⑦ SCUPPER & CONDUCTOR HEAD
- ⑧ PRE-FINISHED ALUMINUM 6"x6" DOWNSPOUT
- ⑨ NOT USED
- ⑩ PRE-FINISHED 25 GA. AL. CAP FLASHING
- ⑪ METAL CANOPY
- ⑫ WALL PACK LIGHT FIXTURE (RE: ELECTRICAL)
- ⑬ EXTERIOR EMERGENCY LIGHT FIXTURE (RE: ELECTRICAL)
- ⑭ BOND BEAM @ 7'-4" CMU WALLS (TYP) RE: STRUCTURAL
- ⑮ NOT USED
- ⑯ 5" THICK SIDEWALK
- ⑰ METAL LADDER
- ⑱ EXPANSION JOINT (TYP.)
- ⑲ 60 MIL. T.P.O. ROOFING SYSTEM
- ⑳ METAL SIDING PANEL
- ㉑ AWNING (NOT USED)
- ㉒ HOLLOW METAL DOOR, PAINTED
- ㉓ SIGNAGE (BY OWNER)
- ㉔ METAL TRIM
- ㉕ METAL BRACE
- ㉖ WOOD SIDING
- ㉗ EXTERIOR SECURITY SHUTTER, BY OWNER

1

2

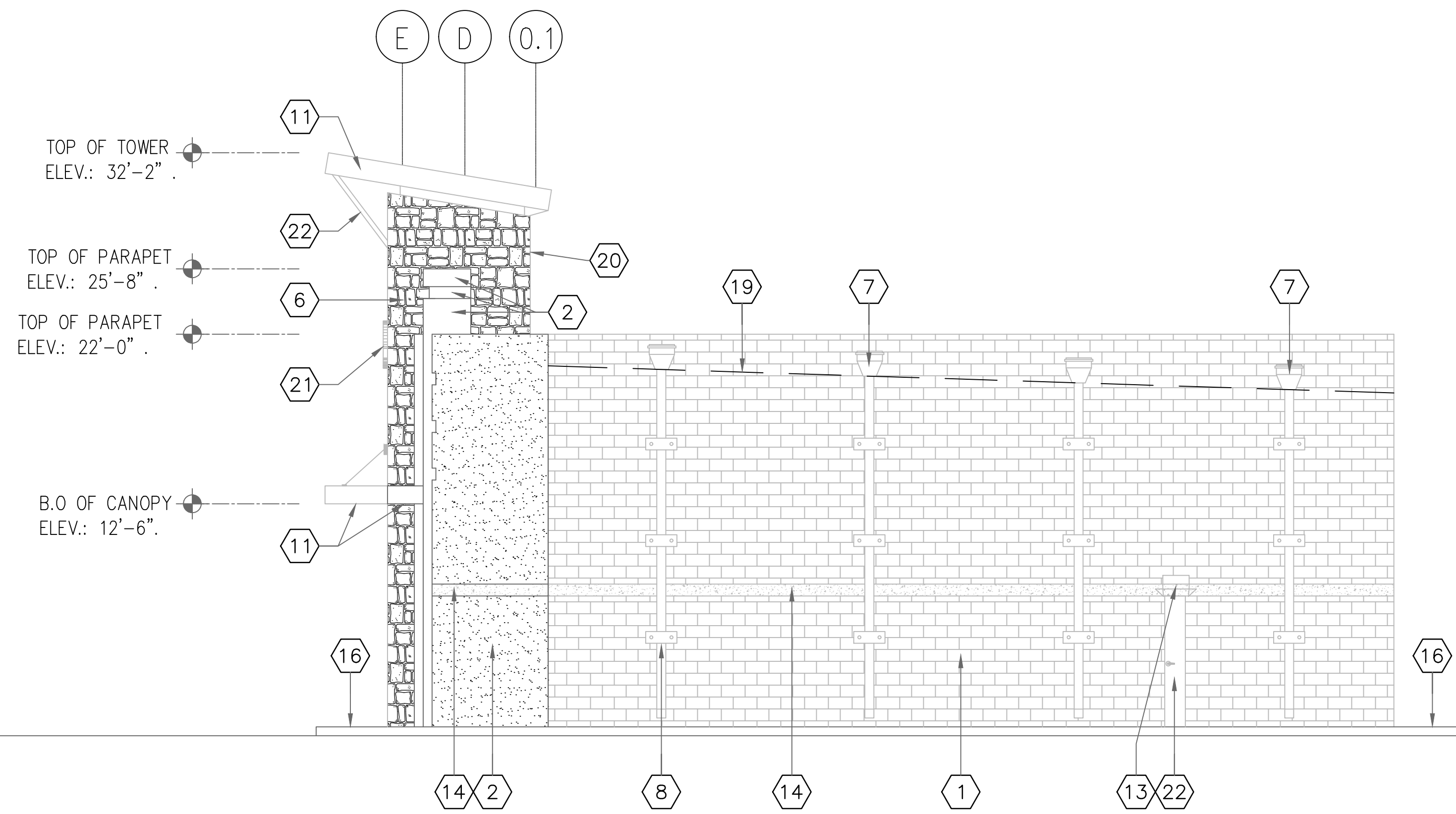
SCALE: 1/8" = 1'-0"
GRAPHIC SCALE



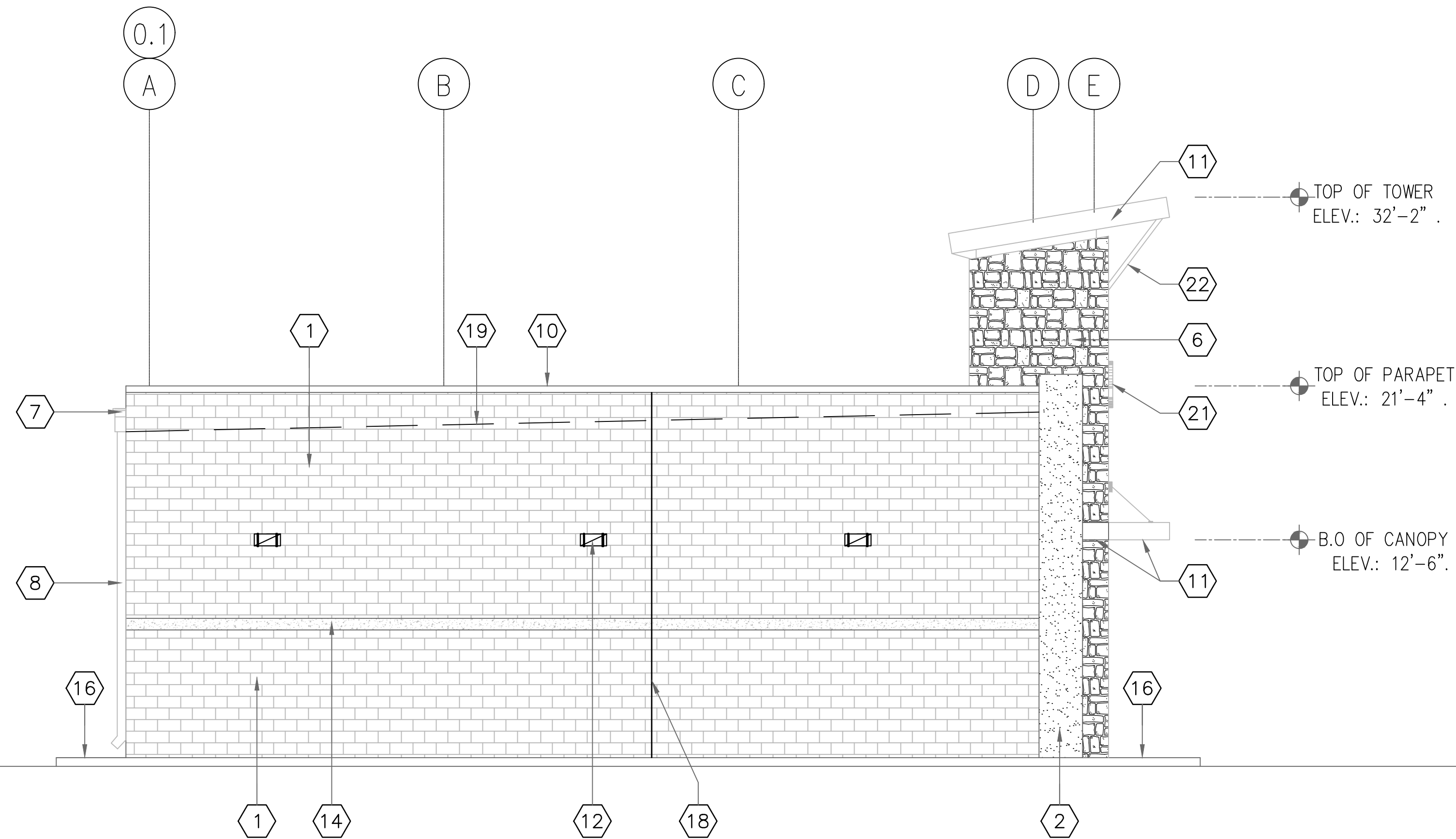
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VILLA MARIA GAS STATION
1919 WEST VILLA MARIA ROAD
BRYAN, TX 77807
EXTERIOR ELEVATIONS NORTH AND SOUTH
DRAWN BY: BM DATE: 9-15-2021 SHEET:
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WEST ELEVATION



EAST ELEVATION

KEYED NOTES

1	8"x16" SPLIT FACE CMU BLOCK. SEALED AND PAINTED (TYP.)
2	7/8" HARD COAT STUCCO RES: GENERAL NOTES
3	NOT USED
4	NOT USED
5	NOT USED
6	2" STONE VENEER
7	SCUPPER & CONDUCTOR HEAD
8	PRE-FINISHED ALUMINUM 6"x6" DOWNSPOUT
9	NOT USED
10	PRE-FINISHED 25 GA. AL. CAP FLASHING
11	METAL CANOPY
12	WALL PACK LIGHT FIXTURE (RE: ELECTRICAL)
13	EXTERIOR EMERGENCY LIGHT FIXTURE (RE: ELECTRICAL)
14	BOND BEAM @ 7'-4" CMU WALLS (TYP)
15	NOT USED
16	5" THICK SIDEWALK
17	METAL LADDER
18	EXPANSION JOINT (TYP.)
19	60 MIL. T.P.O. ROOFING SYSTEM
20	METAL SIDING PANEL
21	SIGNAGE (BY OWNER)
22	METAL BRACE

1

2

SCALE: 3/16" = 1'-0"

GRAPHIC SCALE



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RSK ENGINEERING

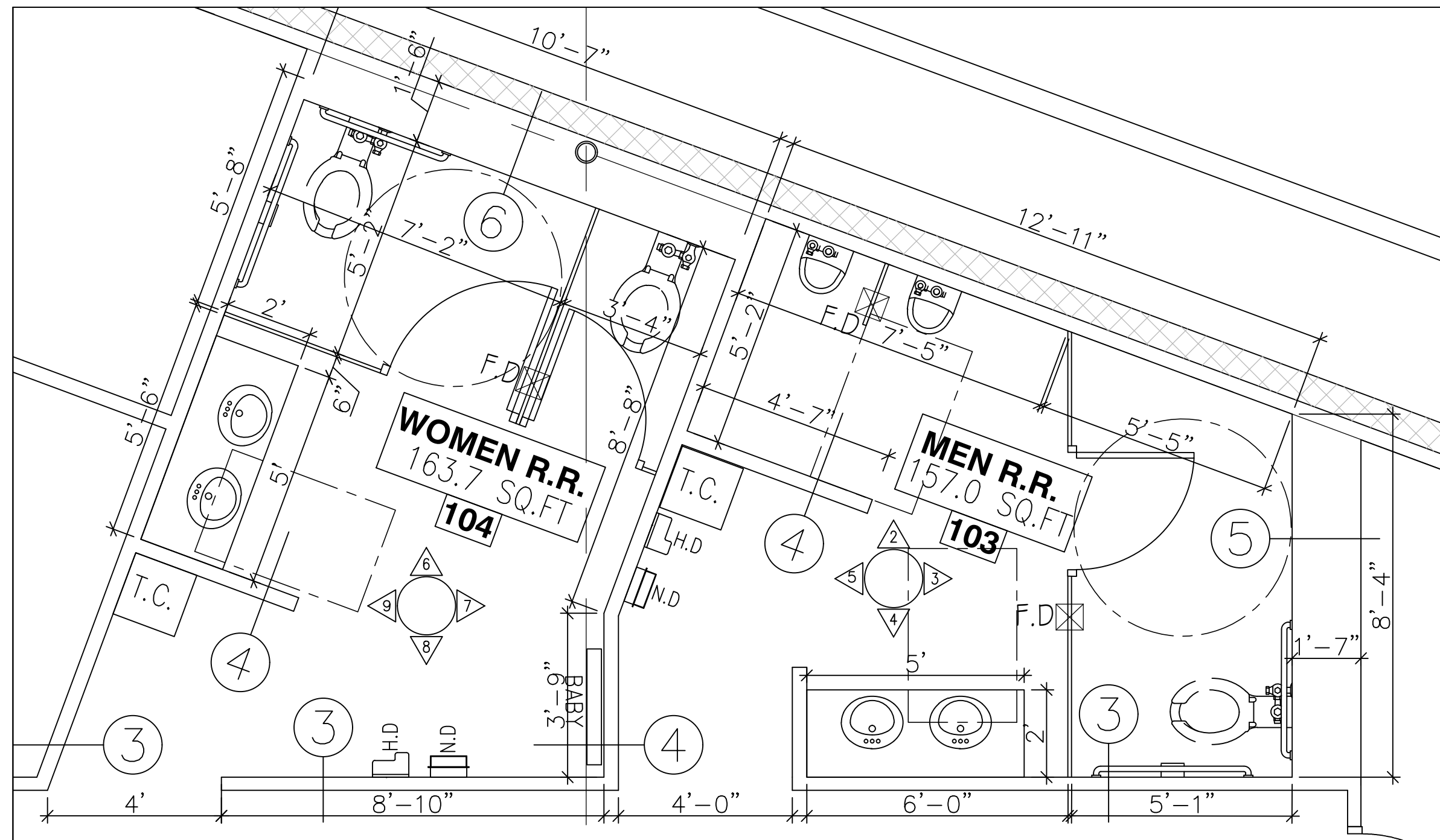
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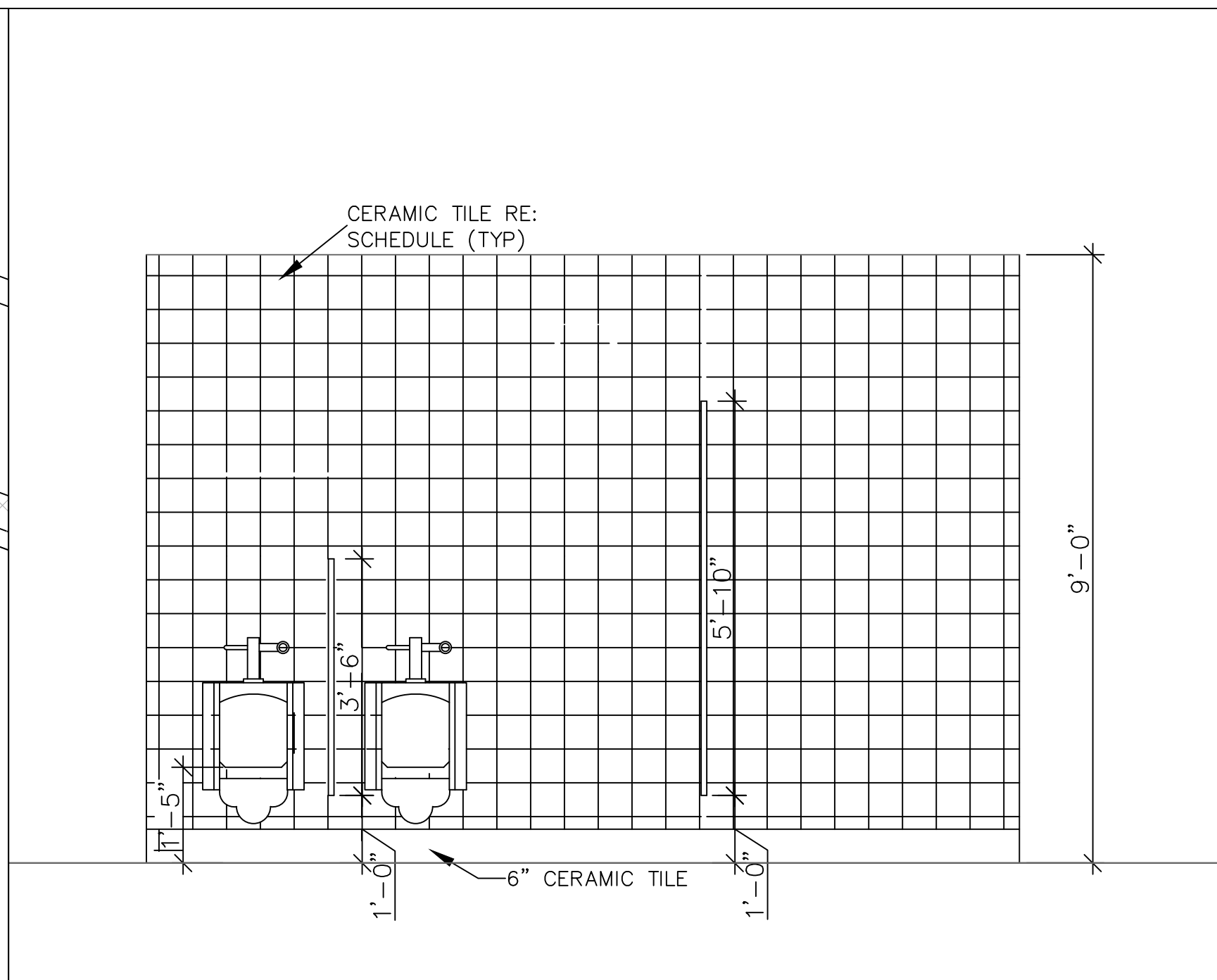
FIRM # F-11211

VILLA MARIA GAS STATION
1919 WEST VILLA MARIA ROAD
BRYAN, TX 77807
EXTERIOR ELEVATIONS WEST AND EAST

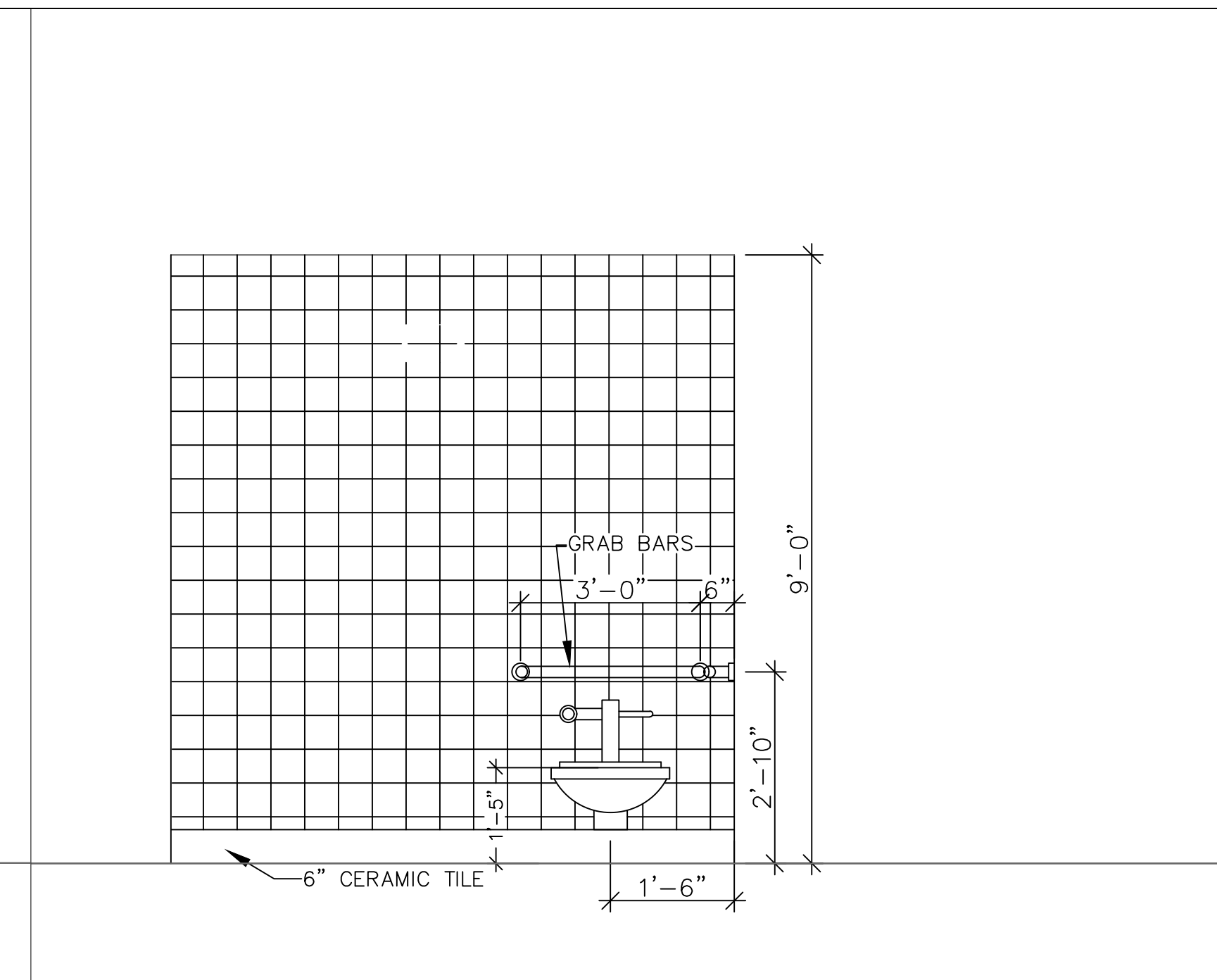
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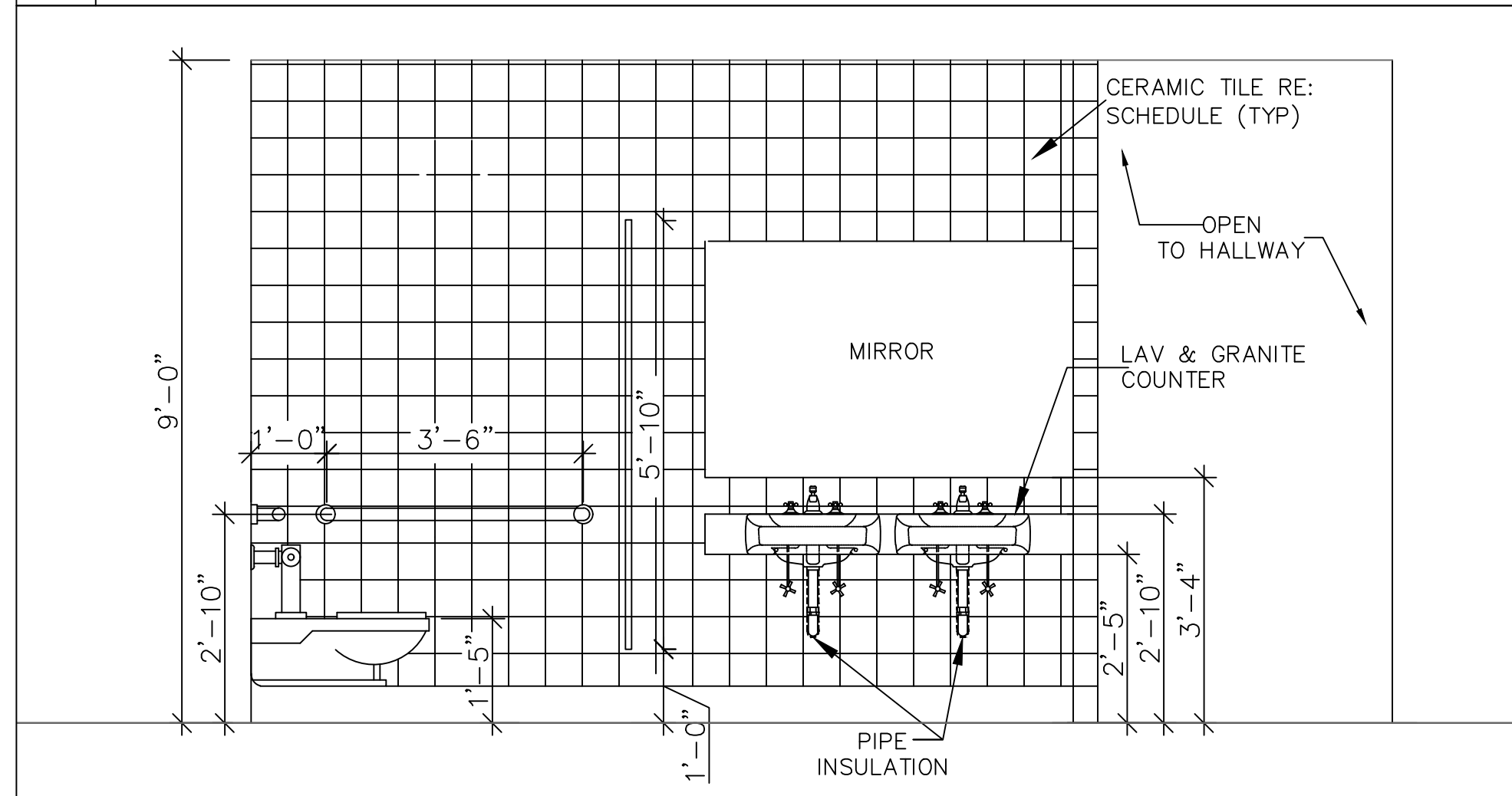
1 RESTROOMS FLOOR PLANS SCALE: 3/8" = 1'-0"



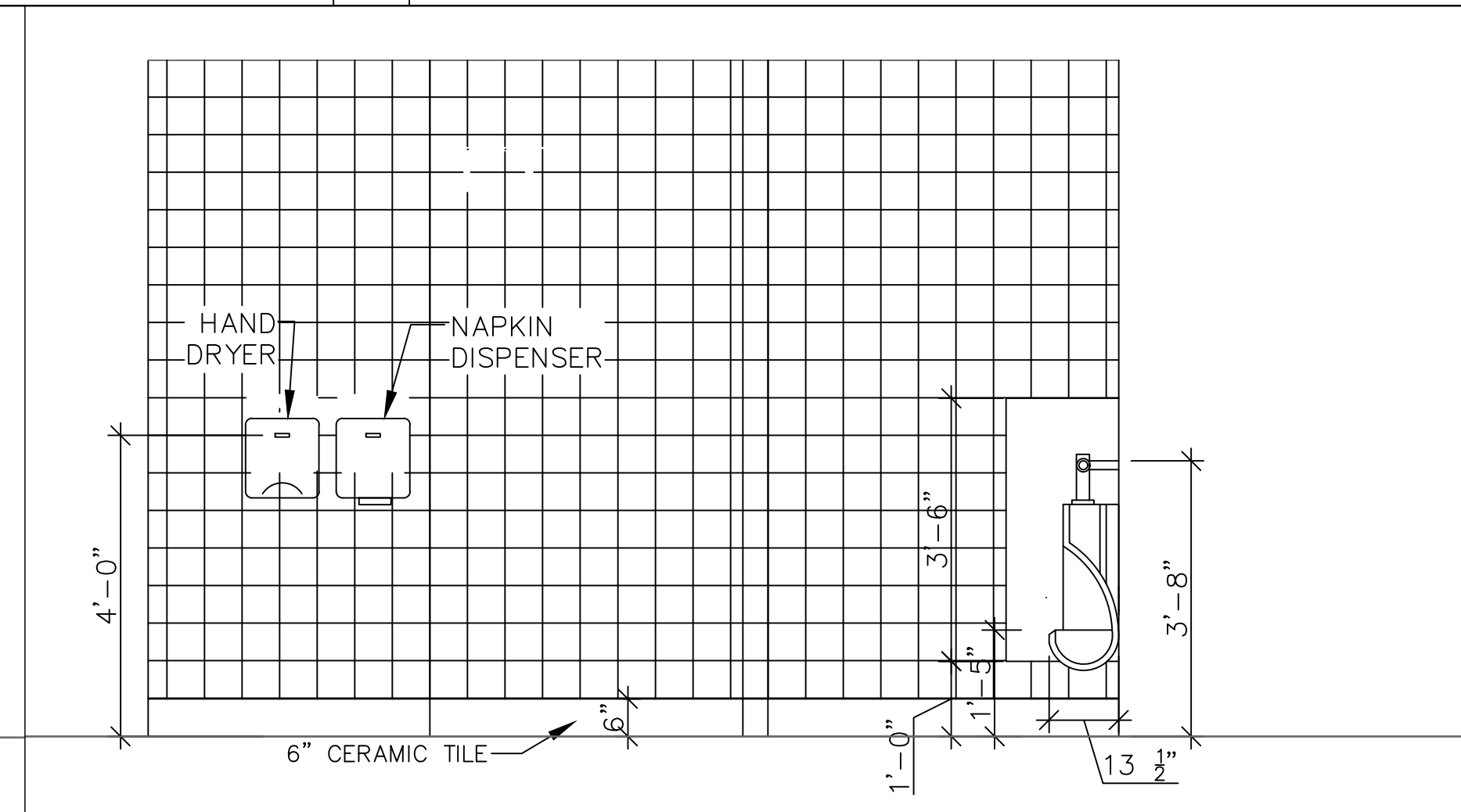
2 MEN RESTROOM



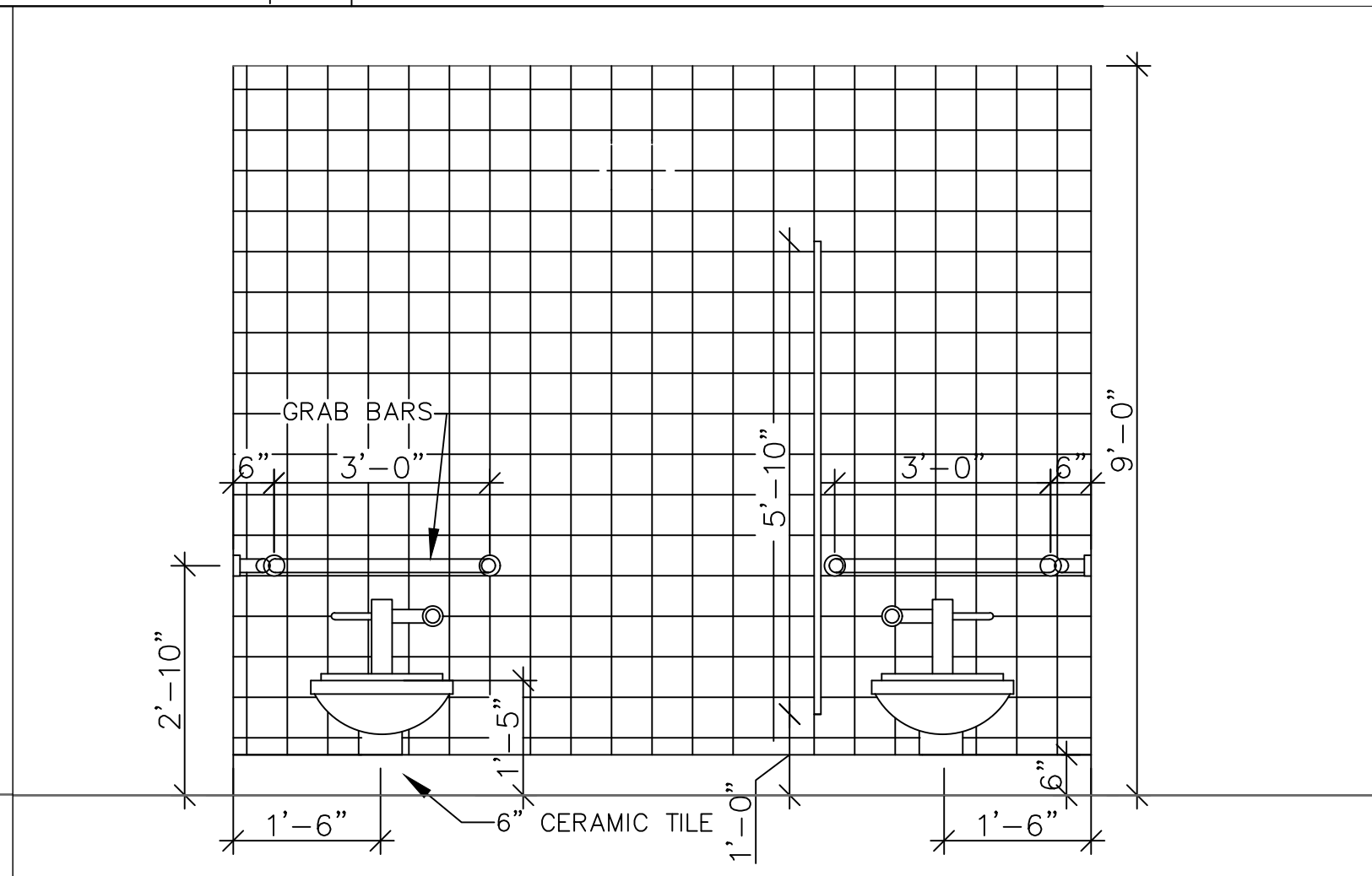
3 MEN RESTROOM



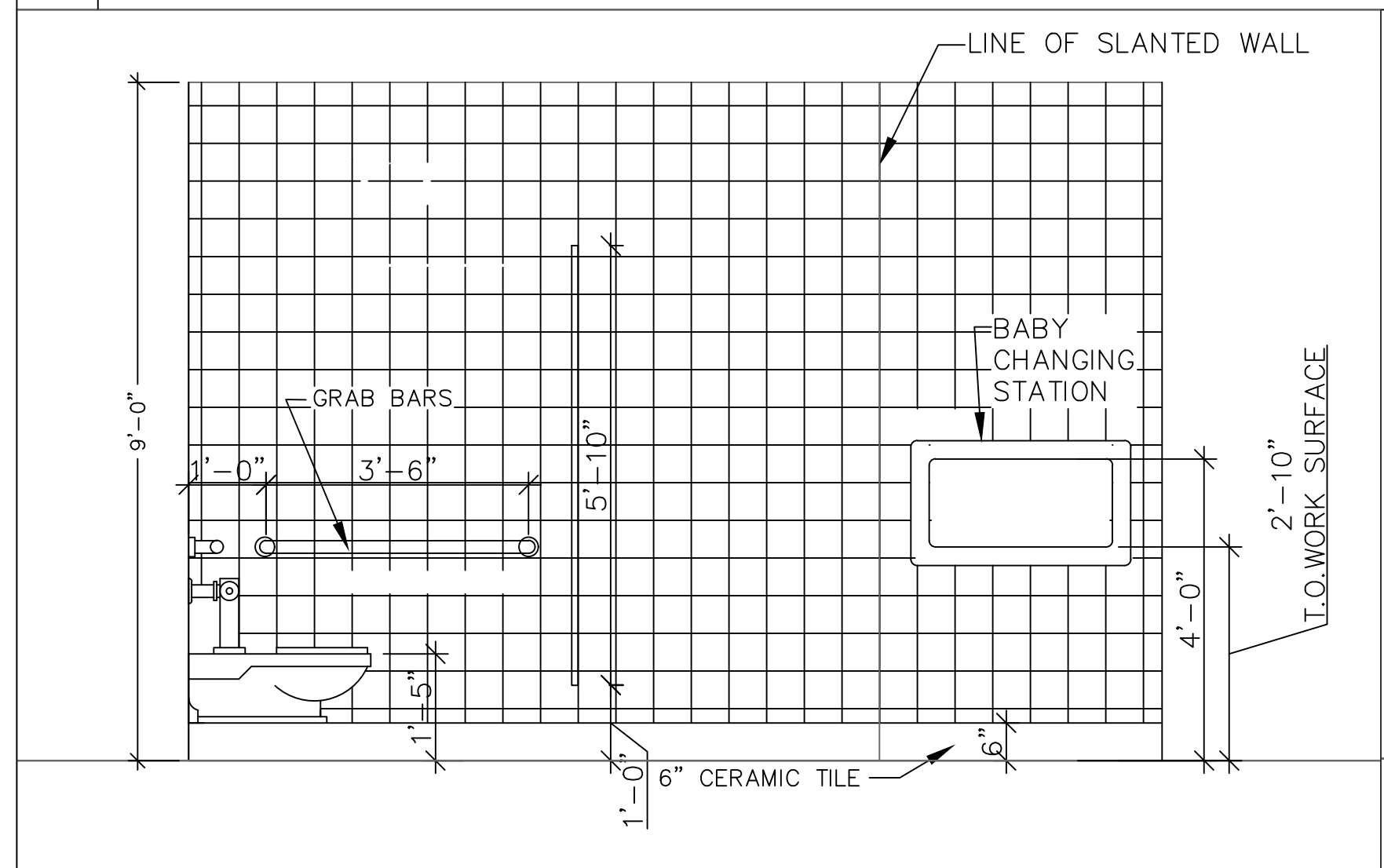
4 MEN RESTROOM



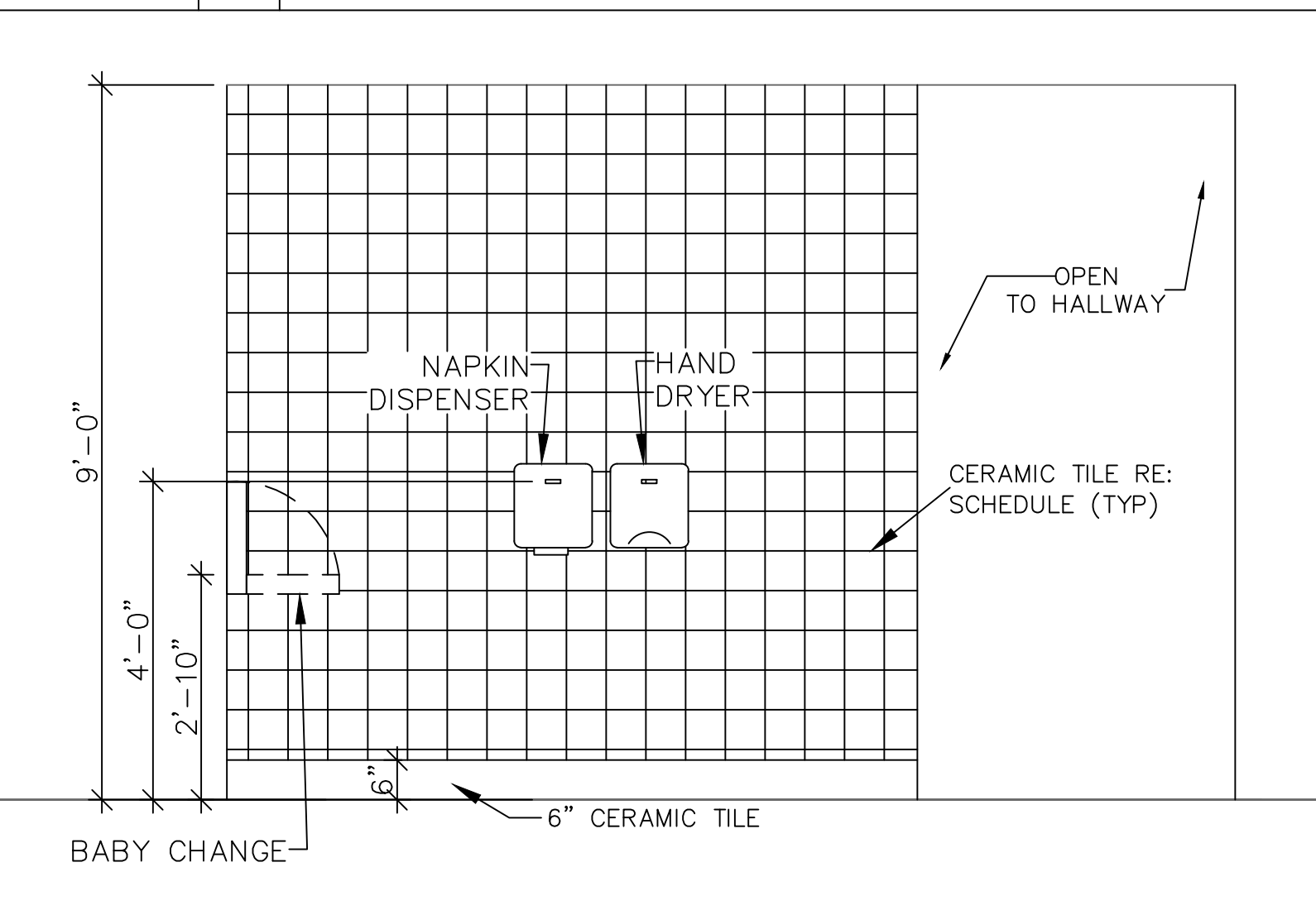
5 MEN RESTROOM



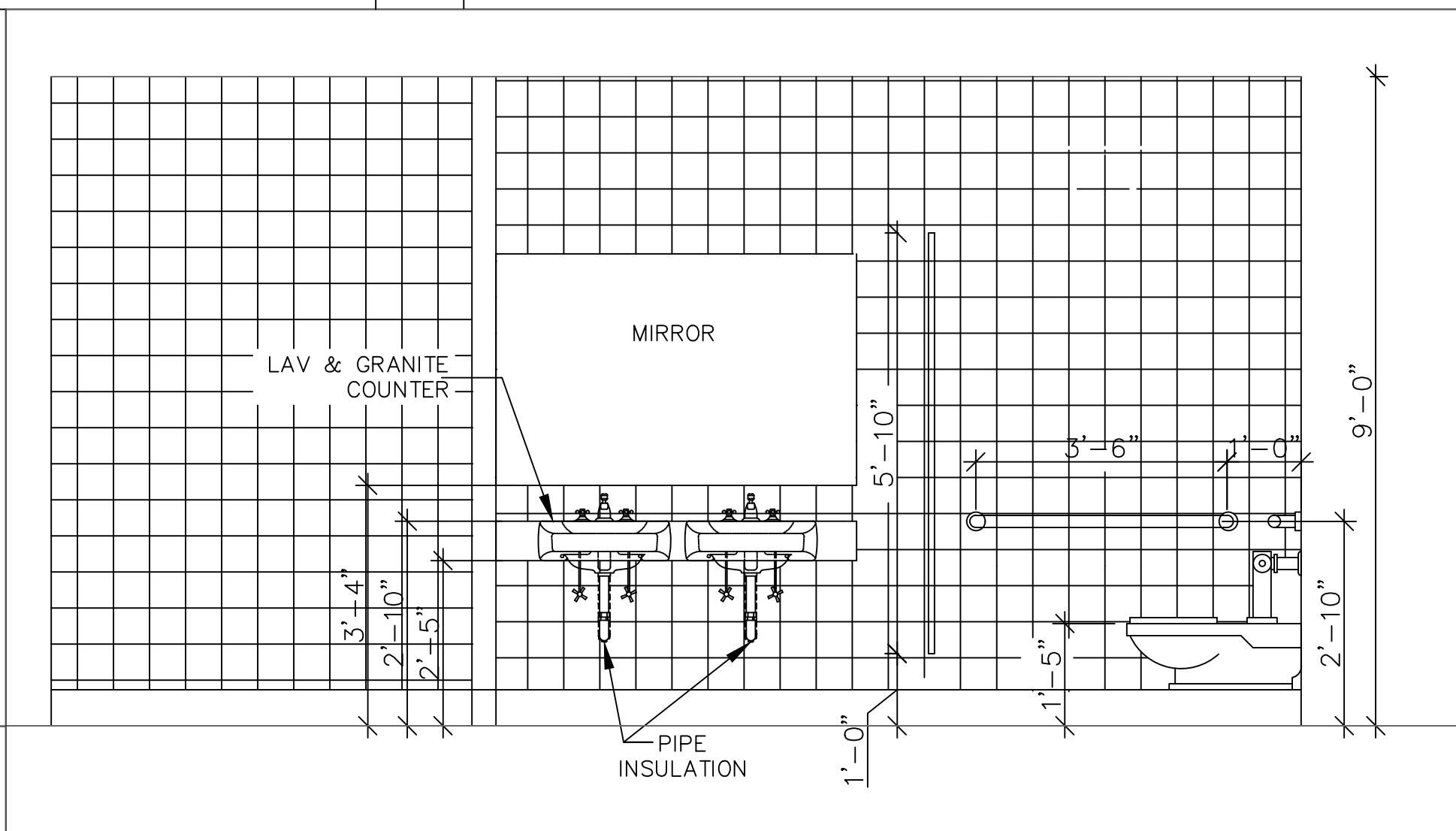
6 WOMAN RESTROOM



7 WOMEN RESTROOM



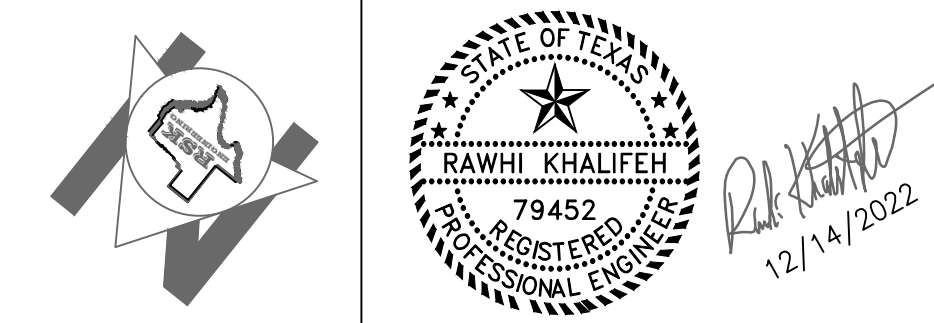
8 WOMEN RESTROOM



9 WOMEN RESTROOM

- GENERAL NOTES:**
1. LABORATORY AND WATER CLOSETS ARE TO HAVE LEVER TYPE CONTROLS. WATER CLOSET CONTROLS SHALL BE LOCATED ON THE SIDE OPPOSITE TO THE NEAREST WALL.
 2. A.D.A. HANDICAP SYMBOLS (Δ W/ BRAILLE, GRADE 2) TO BE LOCATED WITHIN 2' ADJACENT TO DOOR LATCH & 60" TO CENTERLINE AS REQUIRED BY LOCAL AUTHORITY.
 3. GRAB BAR AND SEAT SHALL WITHSTAND A LOAD OF NOT LESS THAN 250 POUNDS APPLIED AT ANY ONE POINT.
 4. PROVIDE 1 1/2" CLEARANCE BETWEEN GRAB BAR AND WALL.
 5. GRAB BAR ON SIDE WALL TO BE OFFSET 12" MAX. FROM REAR WALL.
 6. HOT WATER AND DRAIN PIPES UNDER LABORATORY SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT.
 7. RESTROOM FLOORS & WALLS SHALL HAVE A SMOOTH, HARD, NON-ABSORBENT SURFACE THAT EXTENDS UPWARD ONTO THE WALLS AT LEAST 6 INCHES. (AS PER IBC 2015 SEC. 1210.1)
- HEALTH NOTES:**
1. G.C. MUST USE A MIN. 6" HIGH COVERED SANITARY BASE AT ALL WET LOCATIONS.

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

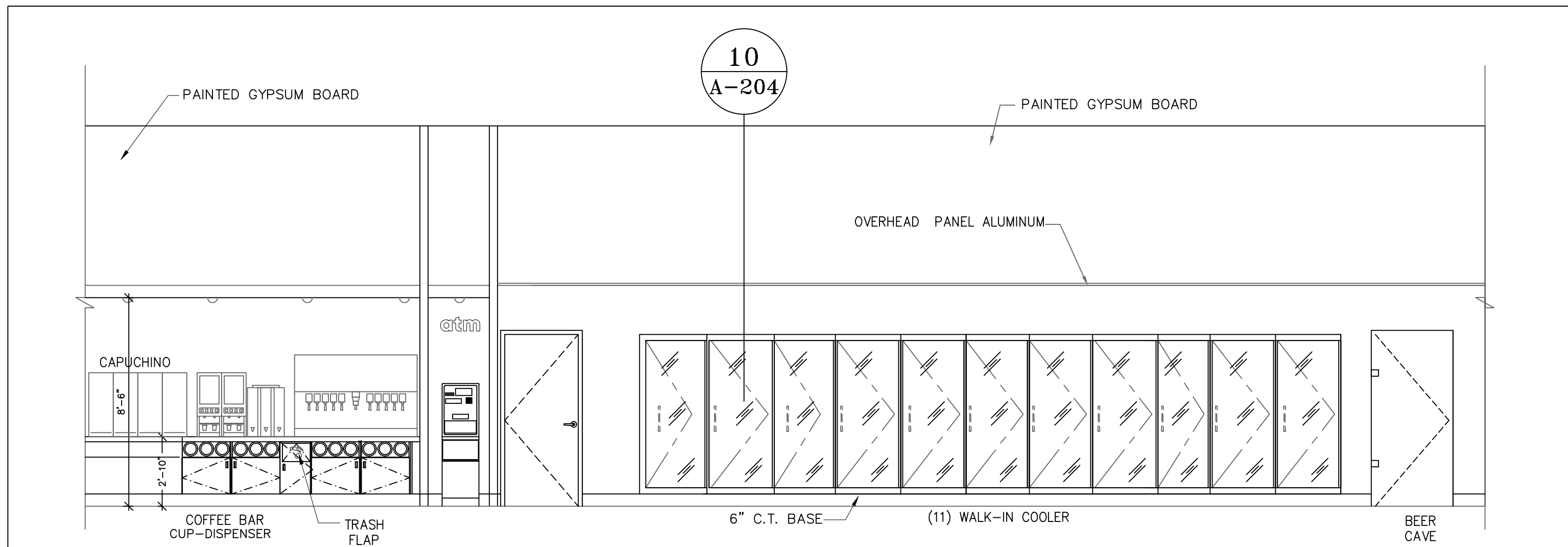


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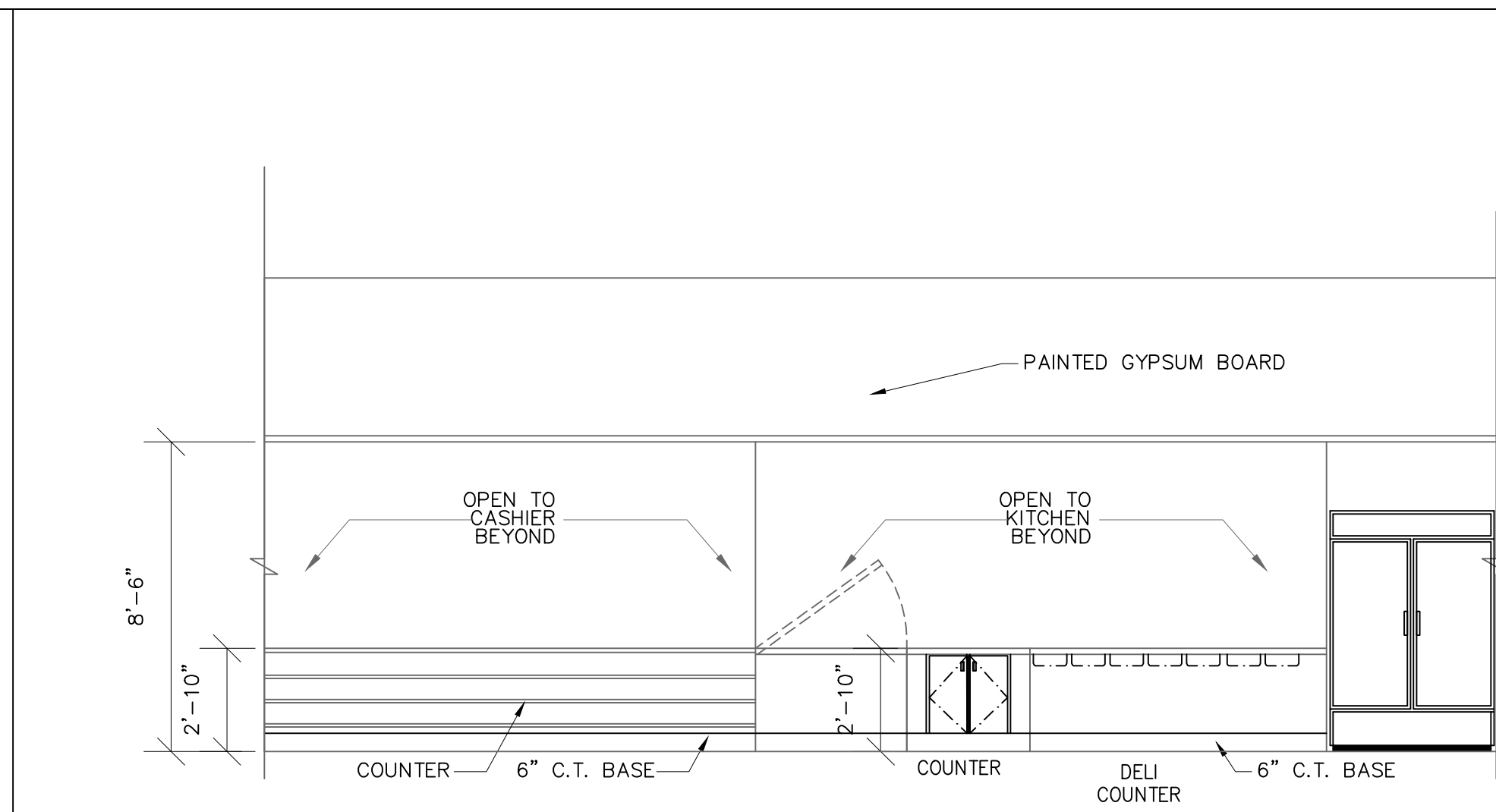
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VILLA MARIA GAS STATION
1919 WEST VILLA MARIA ROAD
BRYAN, TX 77807
RESTROOMS ELEVATIONS

DRAWN BY: BM CHECKED BY: RSK
DATE: 9-15-2021 PROJ. NO.: VR151003.317.4
SHEET: **A-203** Rev.0

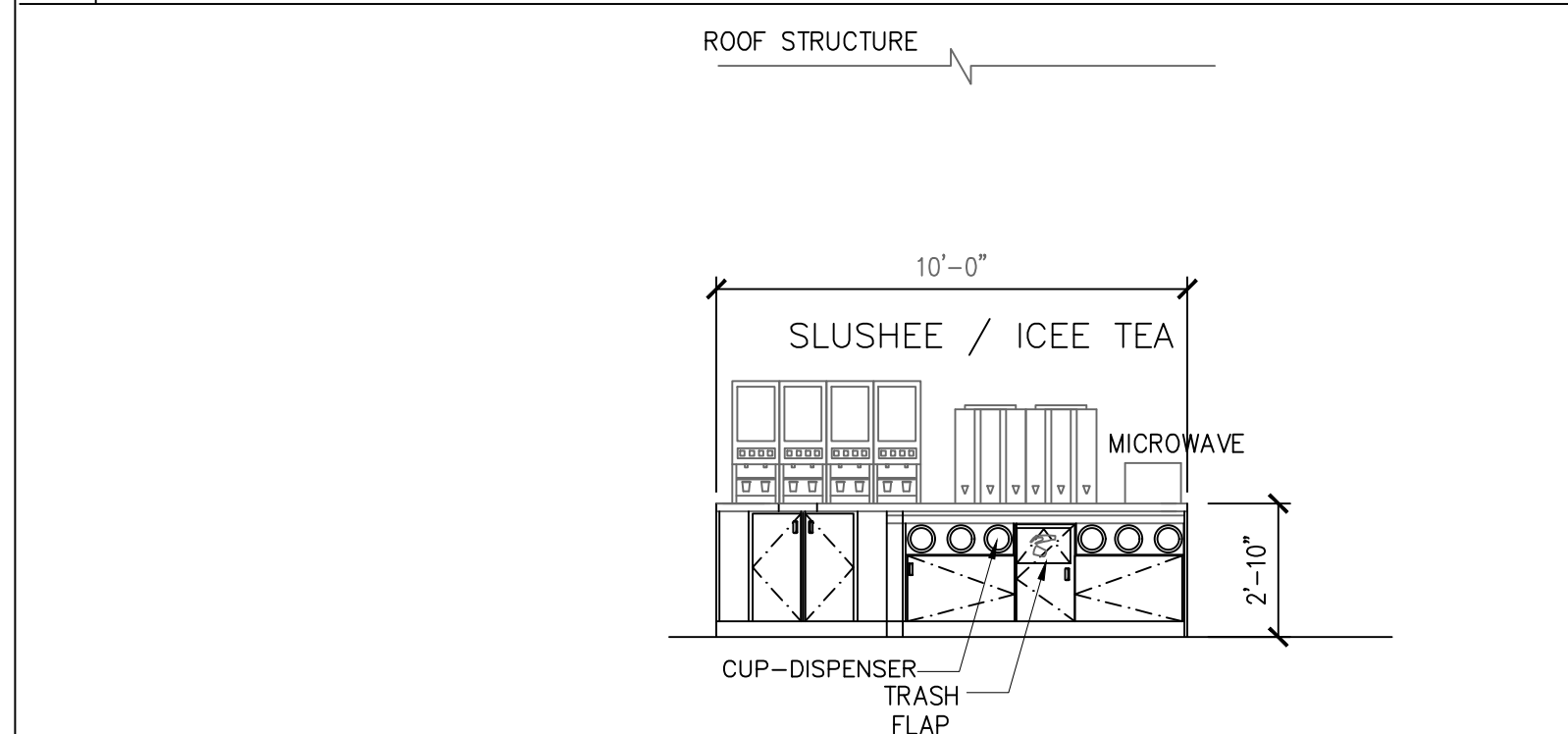


1 COOLER ELEVATION

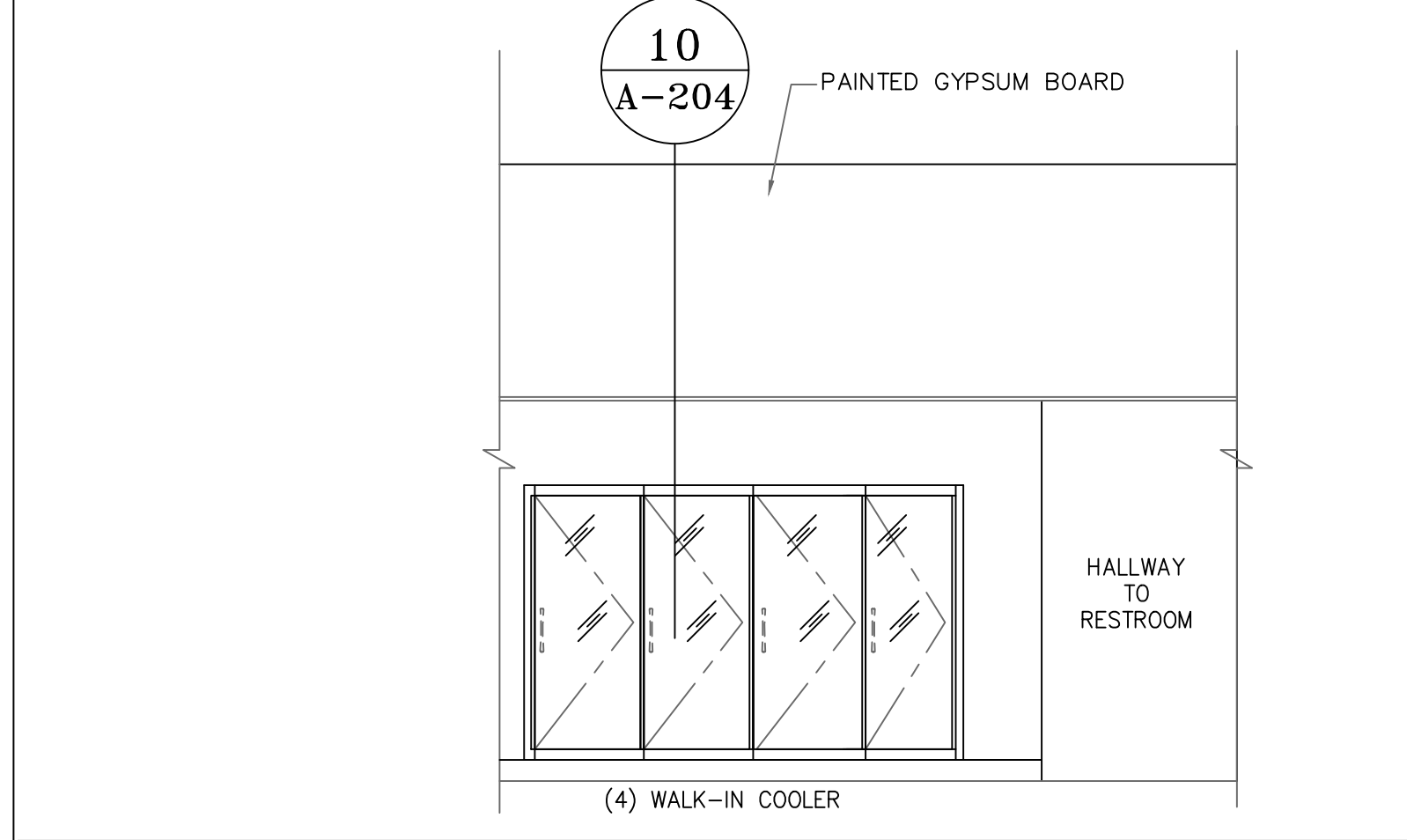
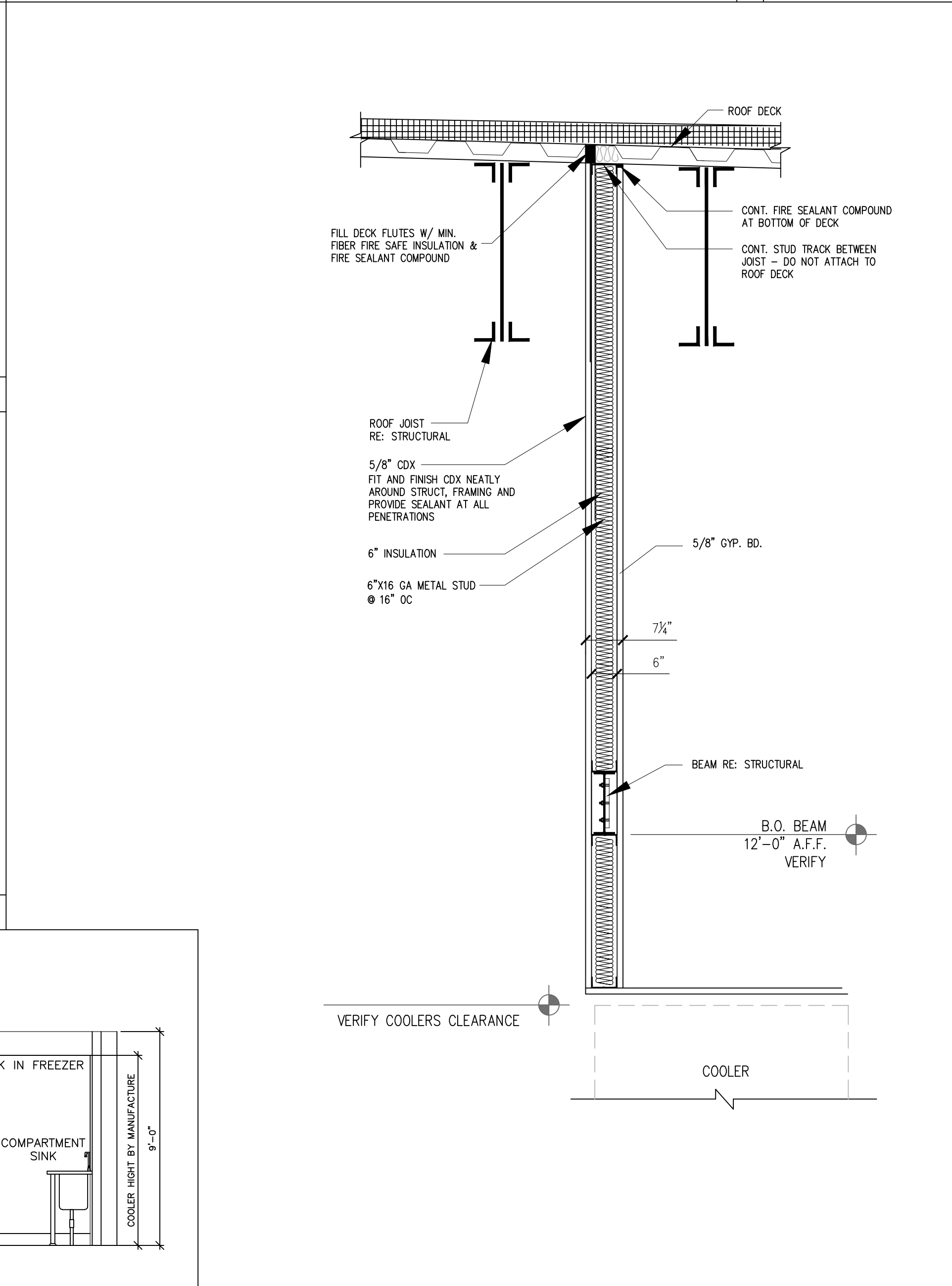


2 CASHIER AND KITCHEN ELEVATION

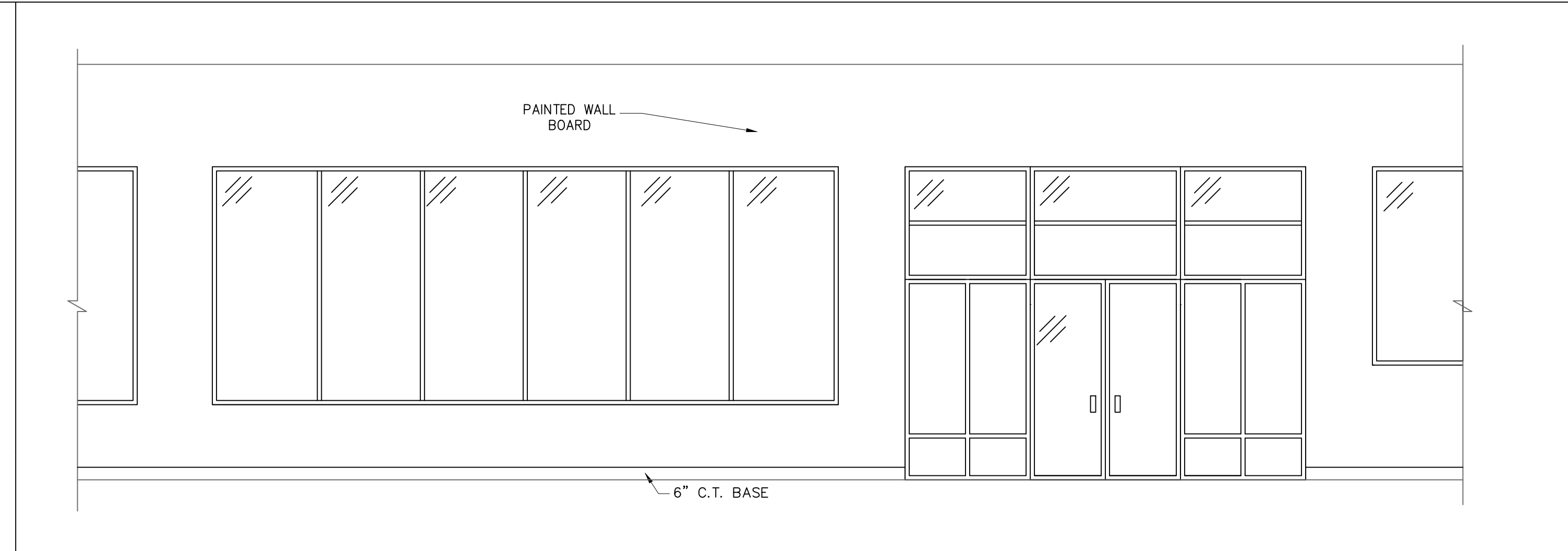
NOTE:
BEHIND SERVICE COUNTERS TO
HAVE LIGHT COLORED IMPERVIOUS
WALL COVER LIKE TILE TO HEIGHT
OF TALLEST DRINK MACHINE
MINIMUM. SEE NOTE #4 SHEET#
A-102



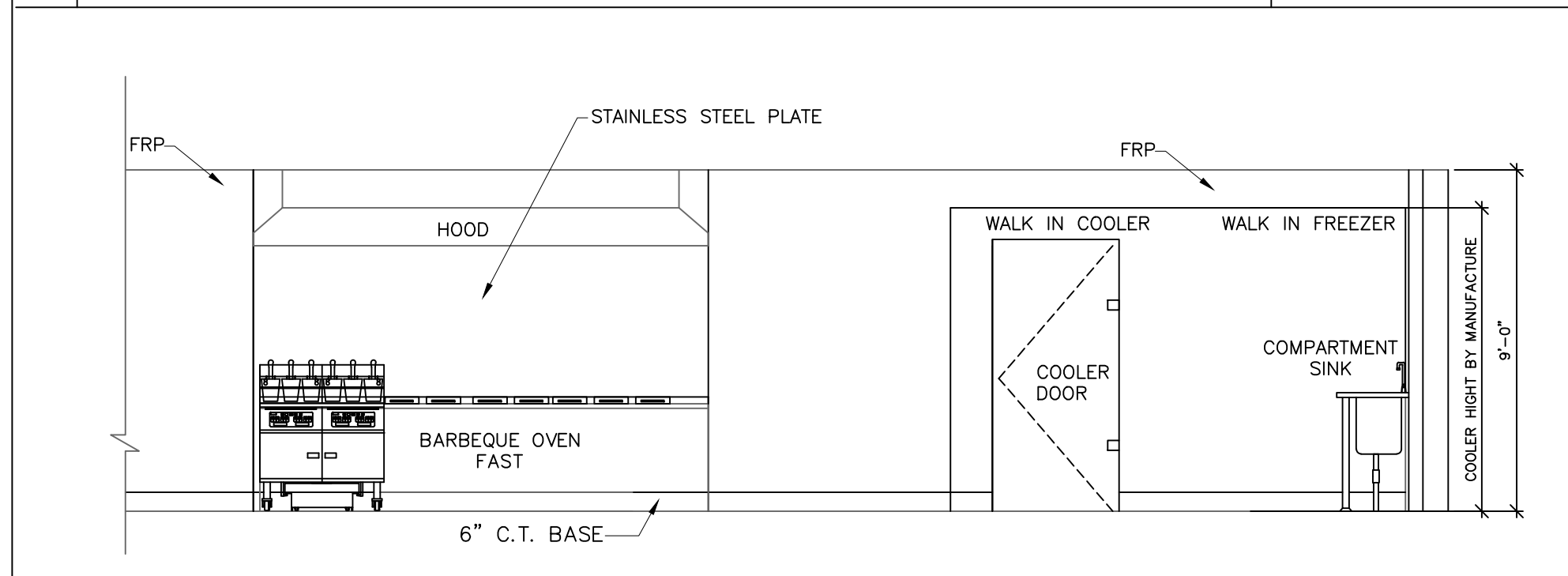
3 DRINK COUNTER ELEVATION



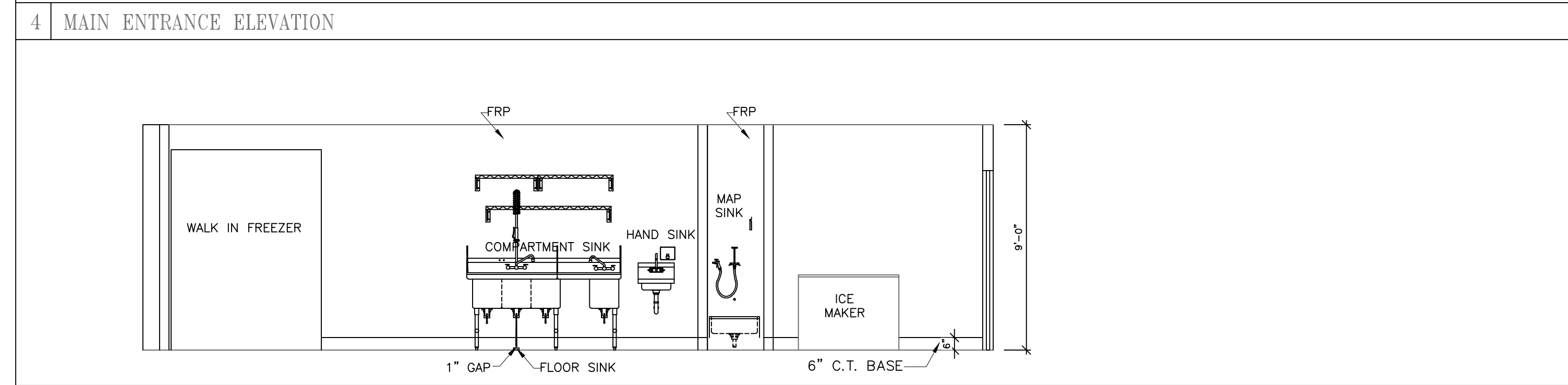
4 MAIN ENTRANCE ELEVATION



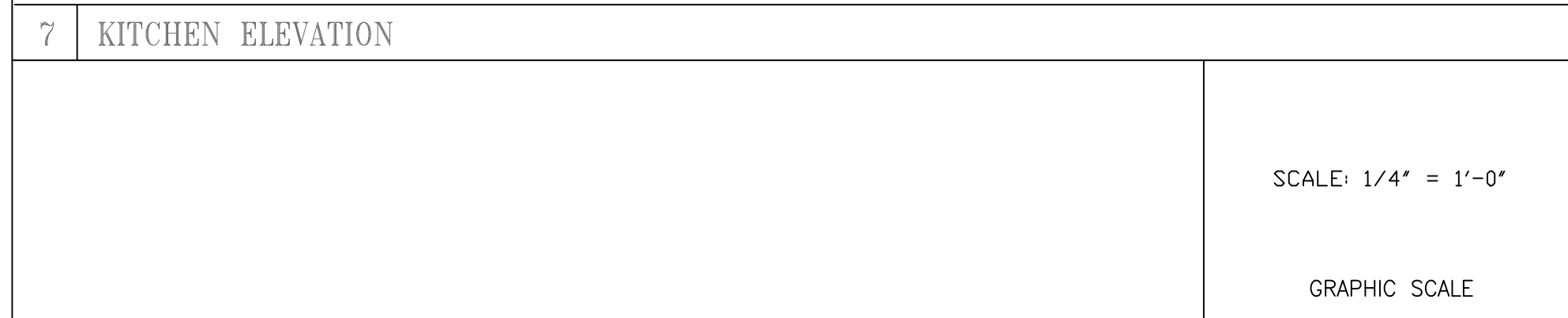
5 COOLER ELEVATION



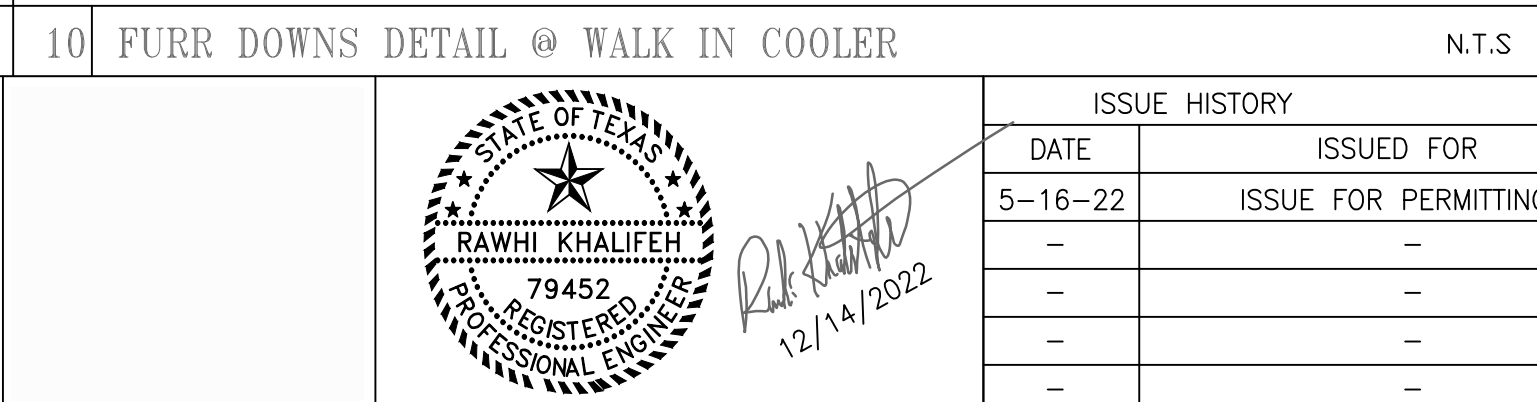
6 KITCHEN ELEVATION



7 KITCHEN ELEVATION



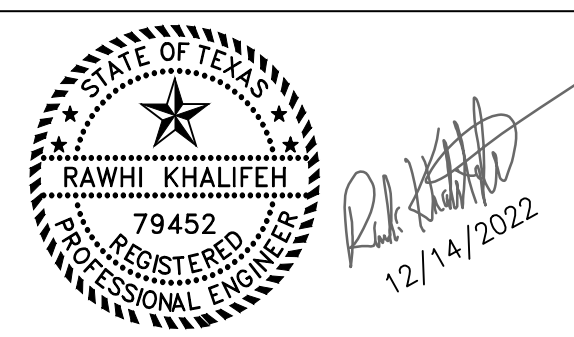
8 KITCHEN ELEVATION



9 KITCHEN ELEVATION

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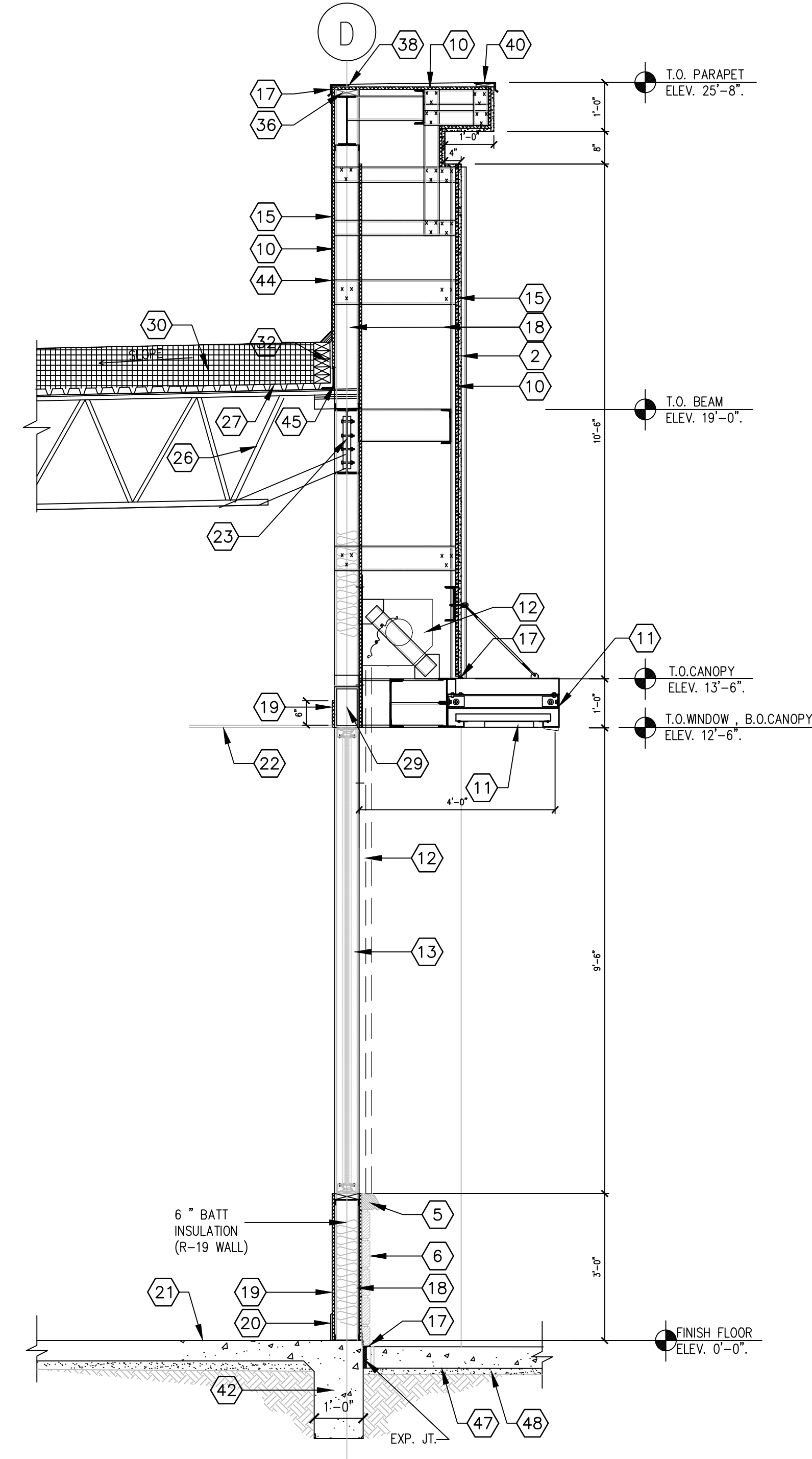
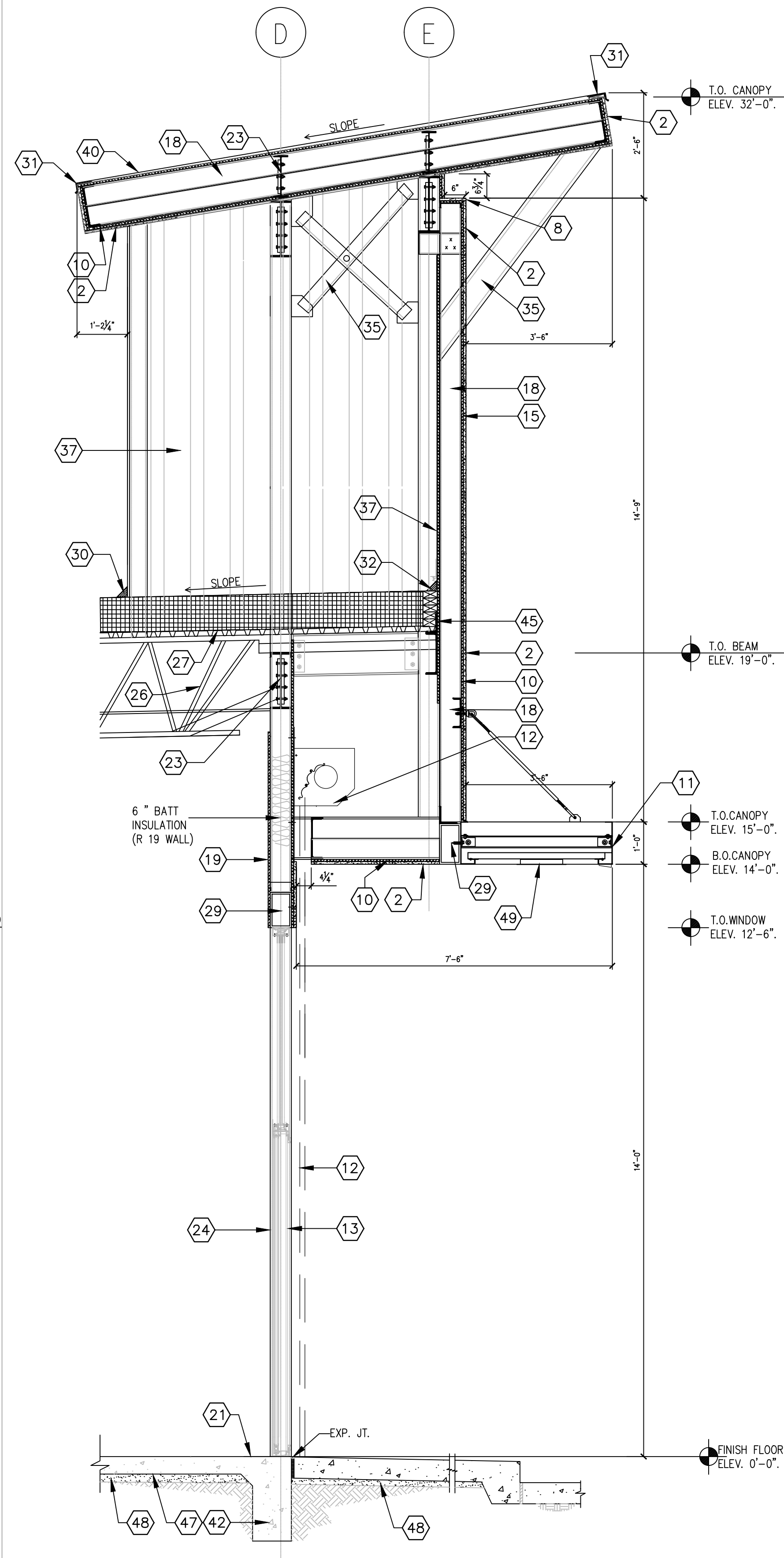
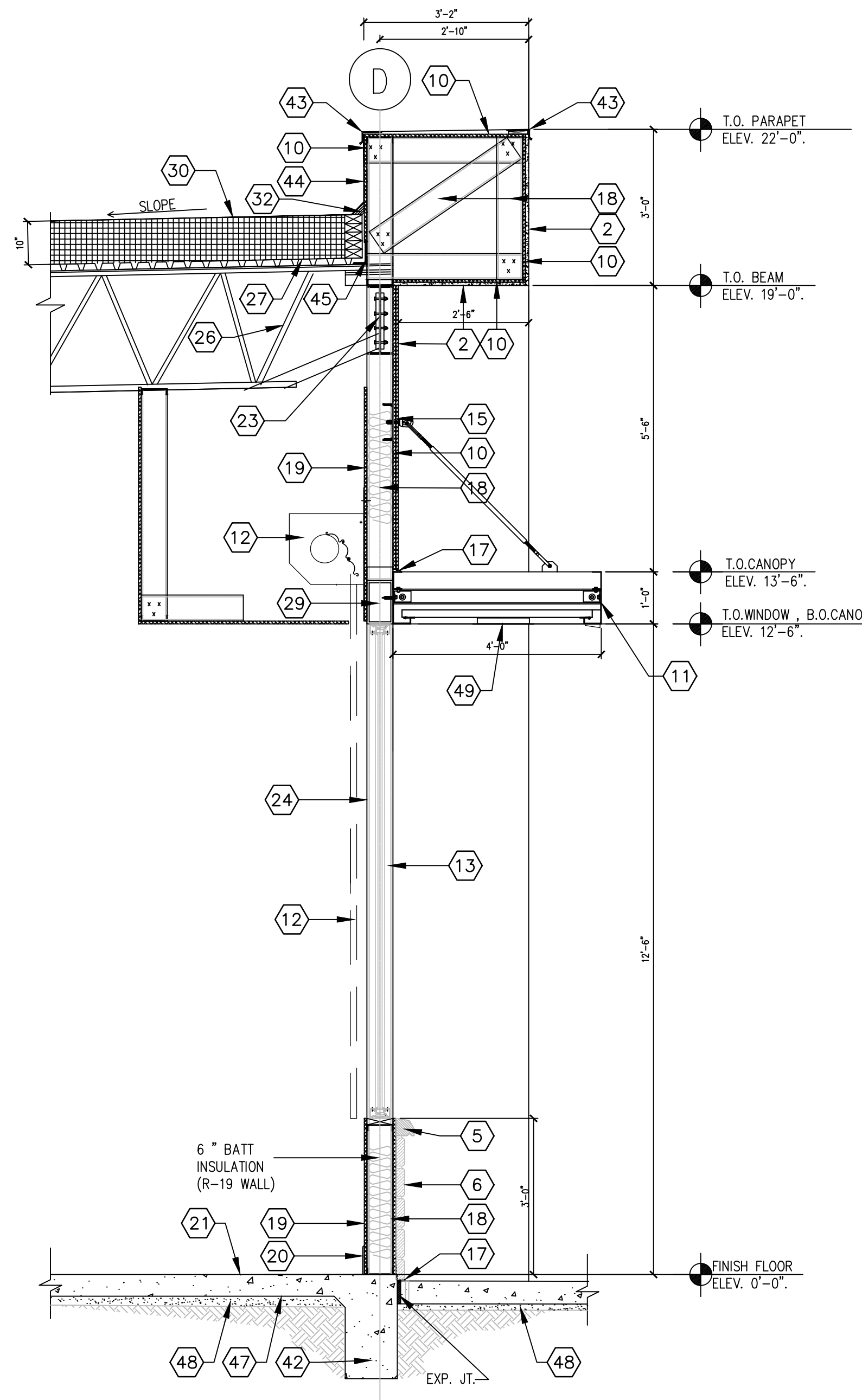


12/14/2022

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

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VILLA MARIA GAS STATION
1919 WEST VILLA MARIA ROAD
BRYAN, TX 77807
INTERIOR ELEVATIONS
DRAWN BY: BM DATE: 9-15-2021 SHEET:
CHECKED BY: RSK PROJ. NO.: VR151003.317.4 **A-204** Rev.0



NOTE:
FOR SECTION DETAILS NOT SHOWN RE:
STRUCTURAL SECTIONS (TYP)

NOTE:
ALL WOOD USED SHALL BE FIRE
RETARDANT TREATED (TYP).

NOTE:
SIDE WALK FLUSH WITH F.F.E AT
DOORS. (TYP).

KEYED NOTES	
1	8"x8"x16" CMU
2	7/8" HARD COAT STUCCO RES: GENERAL NOTES
3	BOND BEAM @ 7'-4" CMU WALLS (TYP)
4	E.I.F.S. TRIM
5	3" CAST STONE
6	2" STONE VENEER.
7	2" BRICK VENEER.
8	CORNER REINF. ,TYP.
9	PRE-FINISHED ALUMINUM 6"x6" DOWNSPOUT AND SCUPPER HEAD
10	5/8" EXT., FIRE RESISTANT PLYWOOD SHEATHING
11	METAL CANOPY
12	EXTERIOR STORE FRONT SECURITY SHUTTERS (BY OWNER)
13	ALUM. AND GLASS STORE FRONT RE: SCH.
15	WATER RESISTANT BARRIER.
16	SELF FURRING LATH & CEMENT PLASTER.
17	CONTINUOUS METAL FLASHING.
18	METAL STUD @ 16" O.C., UNLESS OTHERWISE NOTED (U.N.O.), RE: STRUCT. DWGS
19	3/8" GYP. BOARD TYPE X
20	6" BASE , RE: SCH
21	FINISH FLOOR
22	CEILING RE: RCP.
23	STEEL BEAM RE: STRUCT.
24	COLUMN RE: STRUCT
25	L4"x4"x1/8"x6" RE: STRU. FOR SPACING
26	STEEL JOIST RE: STRUCT.
27	METAL DECK , RE: STRUCT.
28	OUTRIGGER AT COLUMN RE: STRUCT.
29	TUBE STEEL CONT. RE: STRUCT.
30	BOMIL-TPO ROOFING SYSTEM OVER 4"RIGID INSULATION OVER METAL ROOF DECK (TYP)
31	CAP OR COUNTERFLASHING.
32	CANT STRIP.
33	BASE FLASHING SHOULD EXTEND 8" ABOVE HIGHEST ANTICIPATED WATERLINE.
34	PRE-FINISHED 25 GA. GALVZ. CAP FLASHING TO MATCH STUCCO COLOR.
35	STRUCTURE BRACING AT COLUMN RE: STRUCT. DWGS.
36	SHAPED WOOD NAILER
37	METAL WALL PANEL RE: STRUCT. DWGS.
38	30 LBS FELT
39	PLATE (TYP.) RE:STRUCT.
40	STANDING SEAM ROOF OVER 5/8" TREATED PLYWOOD
41	METAL TRIM
42	RENF. CONC. SLAB AND FOOTING RE: SRUCT. DWGS
43	METAL COPING
44	PARAPET FLASHING
45	STEEL ANGLE RE: STRUCT DWGS
46	RENF. CMU BOND BEAM W/2.#5, CONT, RE:STRUCT DWGS
47	VAPOR BARRIER RE: SOILS REPORT
48	2" SAND BED
49	LIGHT FIXTURE, RE: ELECT. DWGS.

1 EXTERIOR FRONT WALL

2 EXTERIOR FRONT WALL @ TOWER

3 EXTERIOR FRONT WALL

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

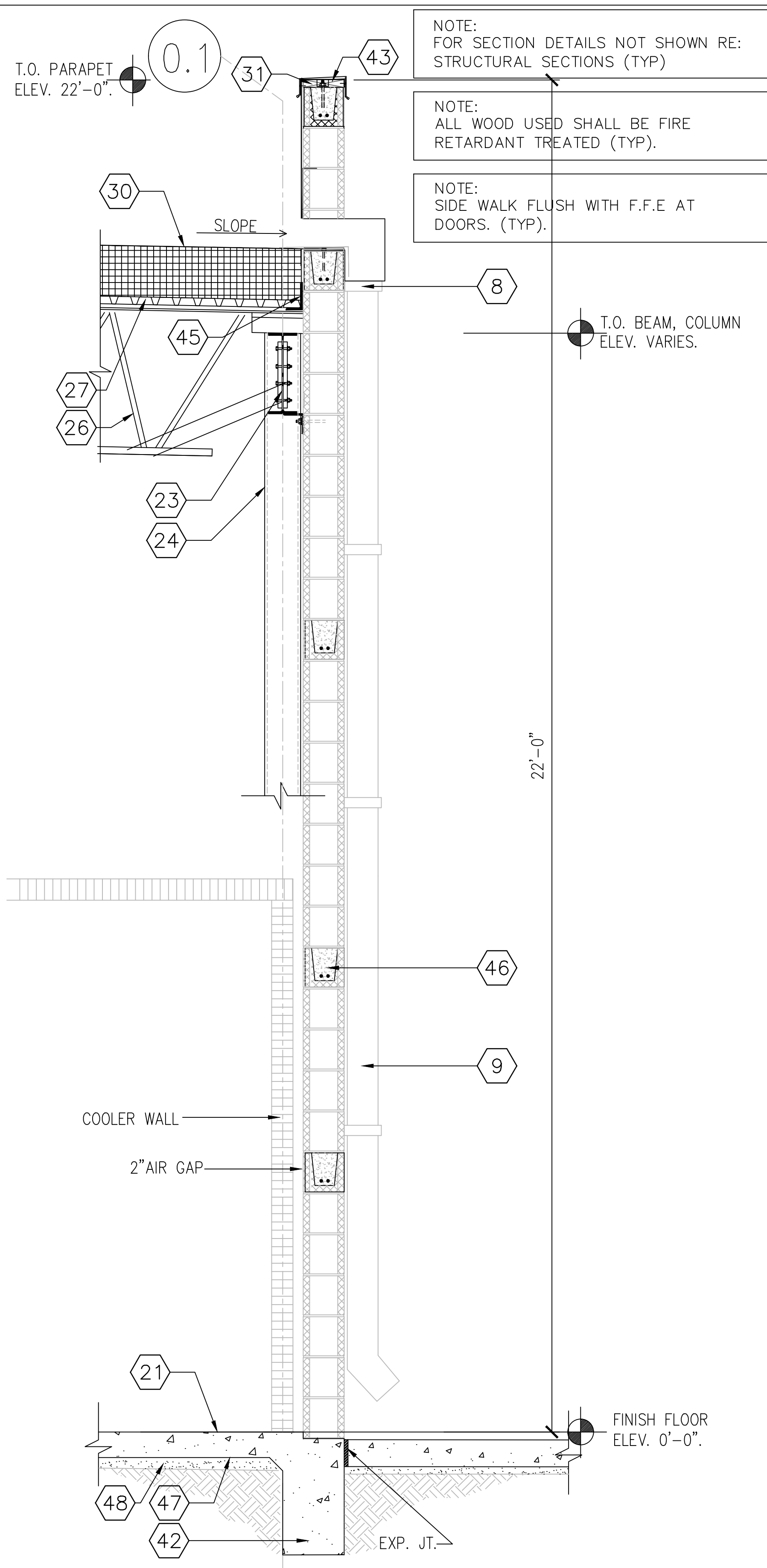
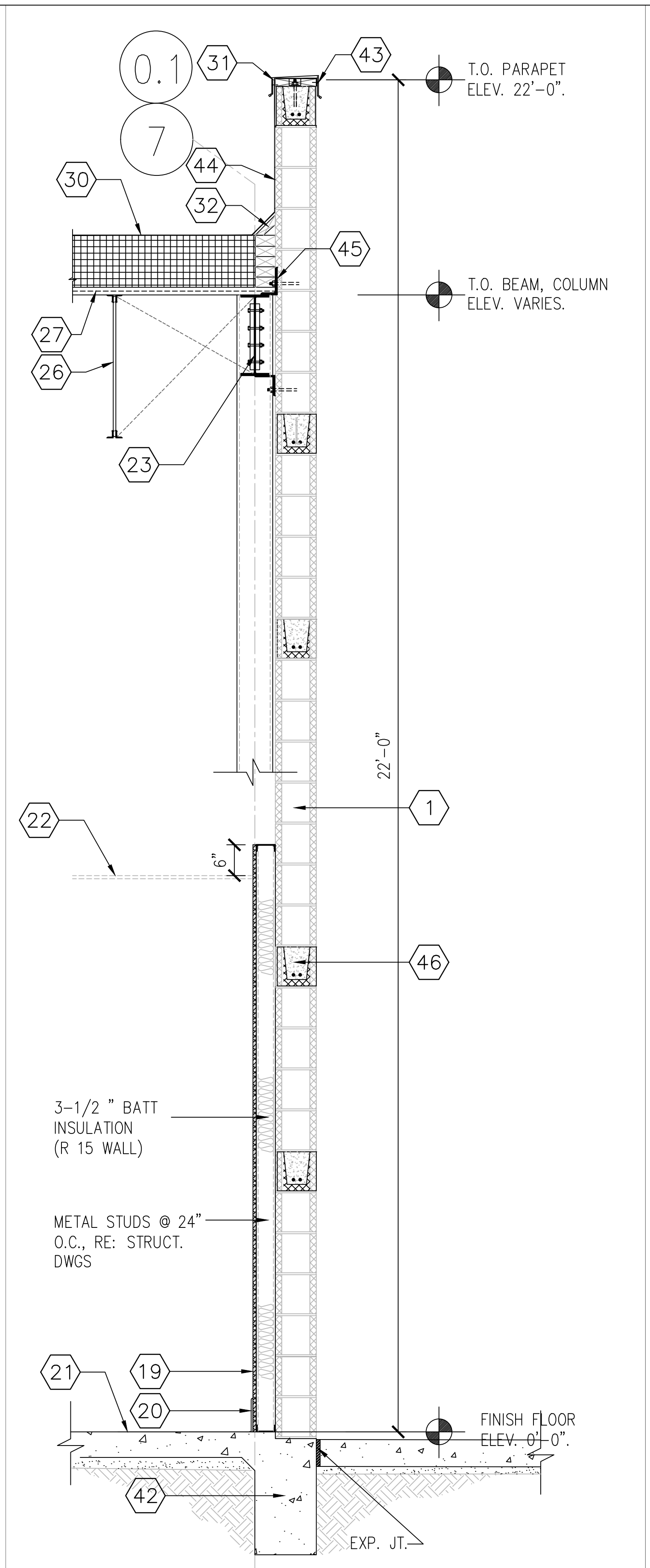
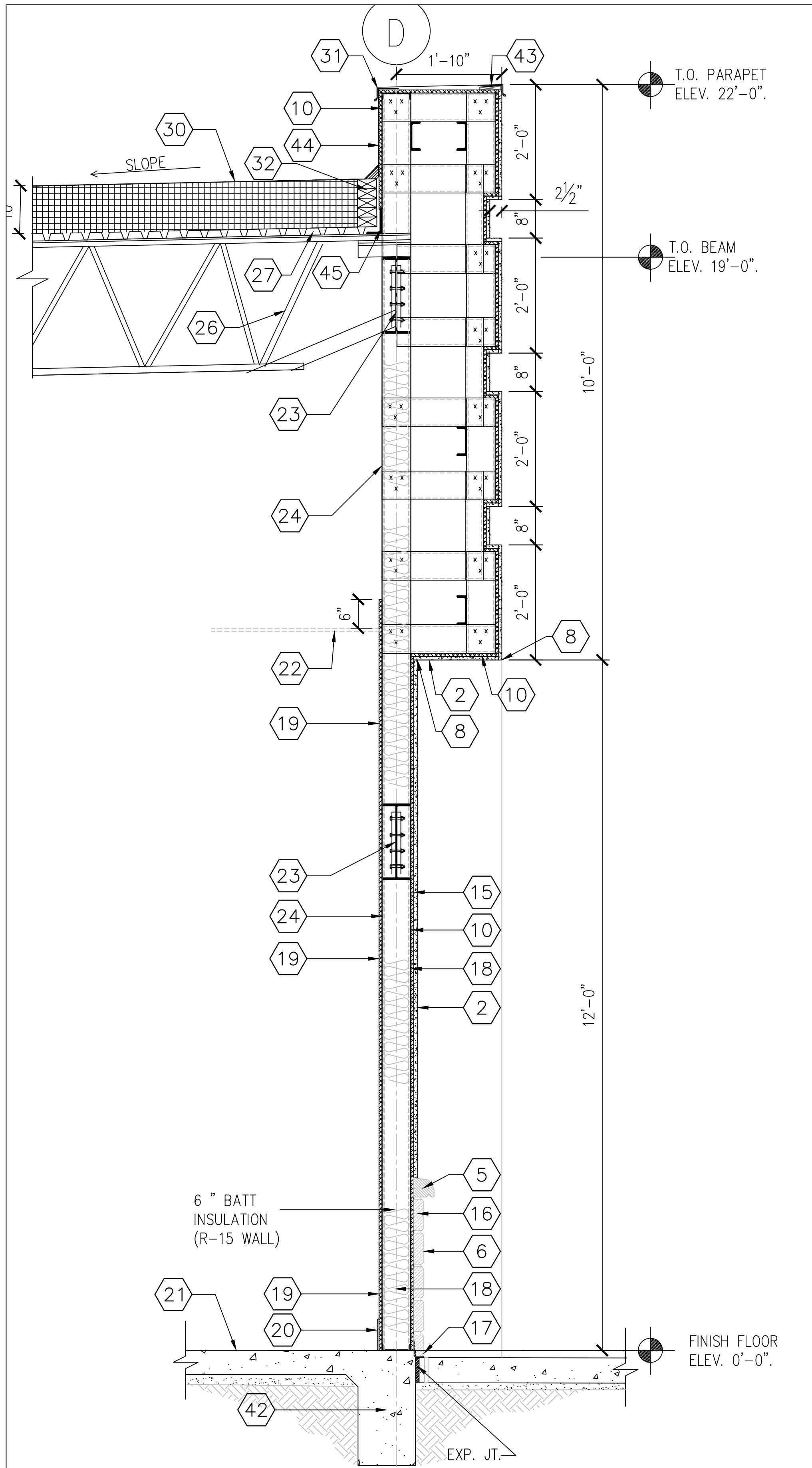


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VILLA MARIA GAS STATION
1919 WEST VILLA MARIA ROAD
BRYAN, TX 77807
EXTERIOR WALL SECTIONS

DRAWN BY: BM DATE: 9-15-2021 SHEET:
CHECKED BY: RSK PROJ. NO.: VR151003.317.4 **A-301** Rev.0



KEYED NOTES	
1	8"x8"x16" CMU
2	7/8" HARD COAT STUCCO RES: GENERAL NOTES
3	BOND BEAM @ 7'-4" CMU WALLS (TYP)
4	E.I.F.S. TRIM
5	3" CAST STONE
6	2" STONE VENEER.
7	2" BRICK VENEER.
8	CORNER REINF. ,TYP.
9	PRE-FINISHED ALUMINUM 6"x6" DOWNSPOUT AND SCUPPER HEAD
10	5/8" EXT. FIRE RESISTANT PLYWOOD SHEATHING
11	METAL CANOPY, BY MANUFACTURER
12	EXTERIOR STORE FRONT SECURITY SHUTTERS
13	ALUM. AND GLASS STORE FRONT RE: SCH.
15	WATER RESISTANT BARRIER.
16	SELF FURRING LATH & CEMENT PLASTER.
17	CONTINUOUS METAL FLASHING.
18	METAL STUD @ 16" O.C, UNLESS NOTED OTHERWISE (U.N.O.), RE: STRUCT. DWGS
19	3/8" GYP. BOARD TYPE X
20	6" BASE , RE: SCH
21	FINISH FLOOR
22	CEILING RE: RCP.
23	STEEL BEAM RE: STRUCT.
24	COLUMN RE: STRUCT
25	L4"x4"x1/2"x6" RE: STRU. FOR SPACING
26	STEEL JOIST RE: STRUCT.
27	METAL DECK , RE: STRUCT.
28	OUTRIGGER AT COLUMN RE: STRUCT.
29	TUBE STEEL CONT. RE: STRUCT.
30	60MIL-TPO ROOFING SYSTEM OVER 4"RIGID INSULATION OVER METAL ROOF DECK (TYP)
31	CAP OR COUNTERFLASHING.
32	CANT STRIP.
33	BASE FLASHING SHOULD EXTEND 8" ABOVE HIGHEST ANTICIPATED WATERLINE.
34	PRE-FINISHED 25 GA. GALVZ. CAP FLASHING TO MATCH STUCCO COLOR.
35	STRUCTURE BRACING AT COLUMN RE: STRUCT. DWGS.
36	SHAPED WOOD NAILER
37	METAL WALL PANEL RE: STRUCT. DWGS.
38	30 LBS FELT
39	PLATE (TYP.) RE:STRUCT.
40	STANDING SEAM ROOF OVER 5/8" TREATED PLYWOOD
41	METAL TRIM
42	RENF. CONC. SLAB AND FOOTING RE: SRUCT. DWGS
43	METAL COPING
44	PARAPET FLASHING
45	STEEL ANGLE RE: STRUCT DWGS
46	REINF. CMU BOND BEAM W/2.#5, CONT, RE:STRUCT DWGS
47	VAPOR BARRIER RE: SOILS REPORT
48	2" SAND BED
49	LIGHT FIXTURE, RE: ELEC. DWGS.

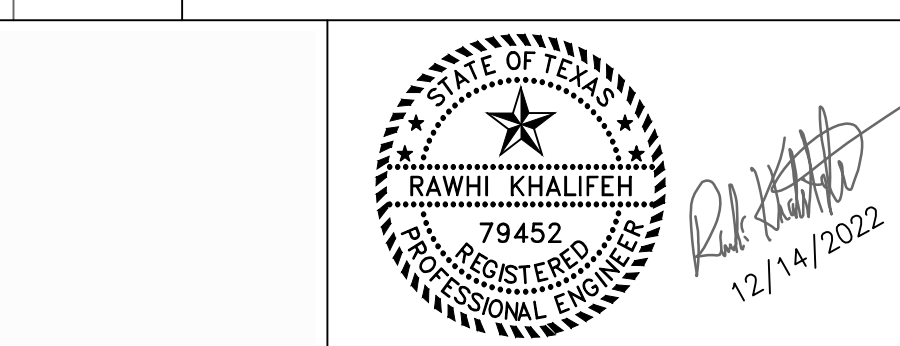
1 EXTERIOR SIDE WALL

2 EXTERIOR SIDE WALL

3 EXTERIOR BACK WALL

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

GRAPHIC SCALE



ISSUE HISTORY		REVISIONS	
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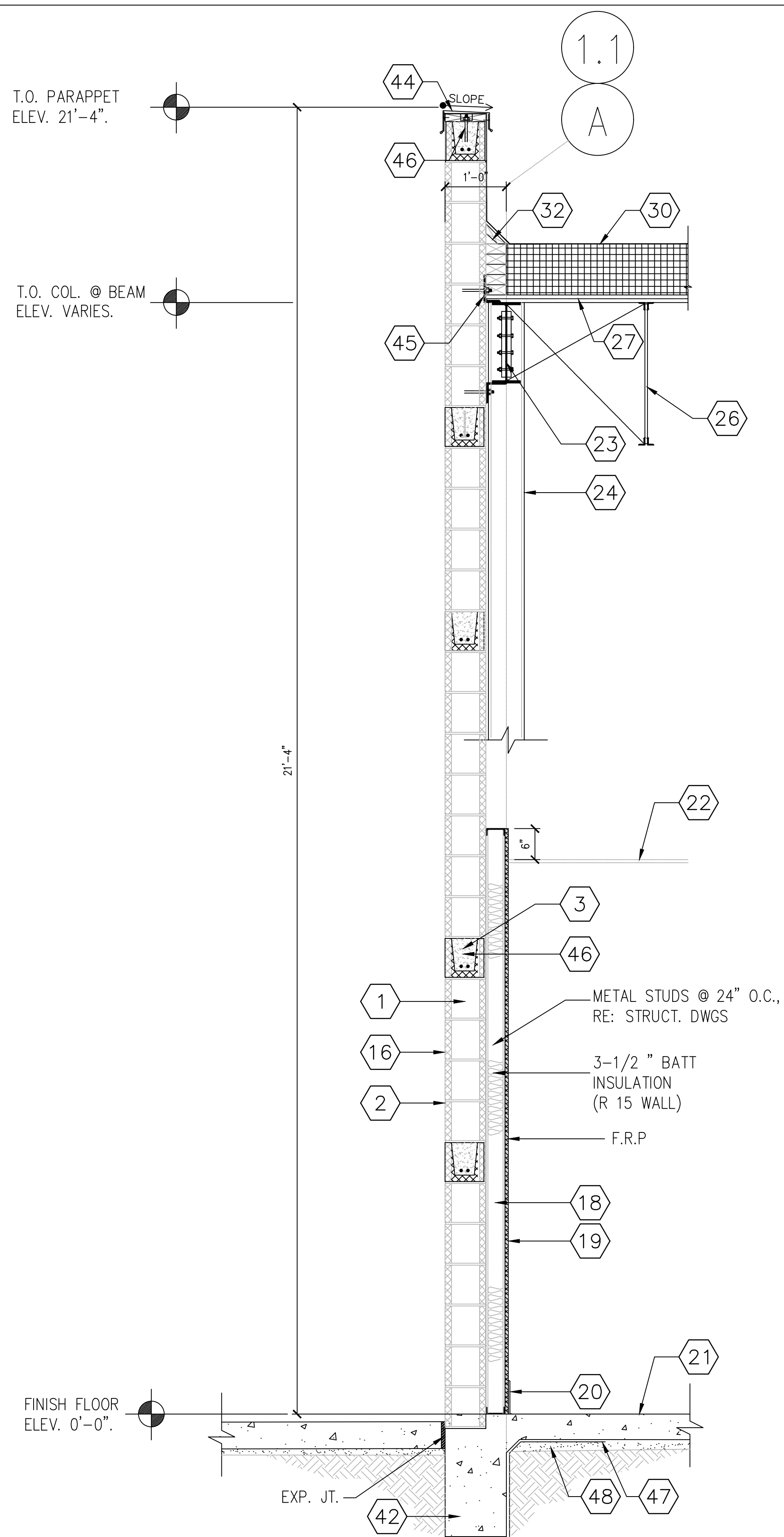
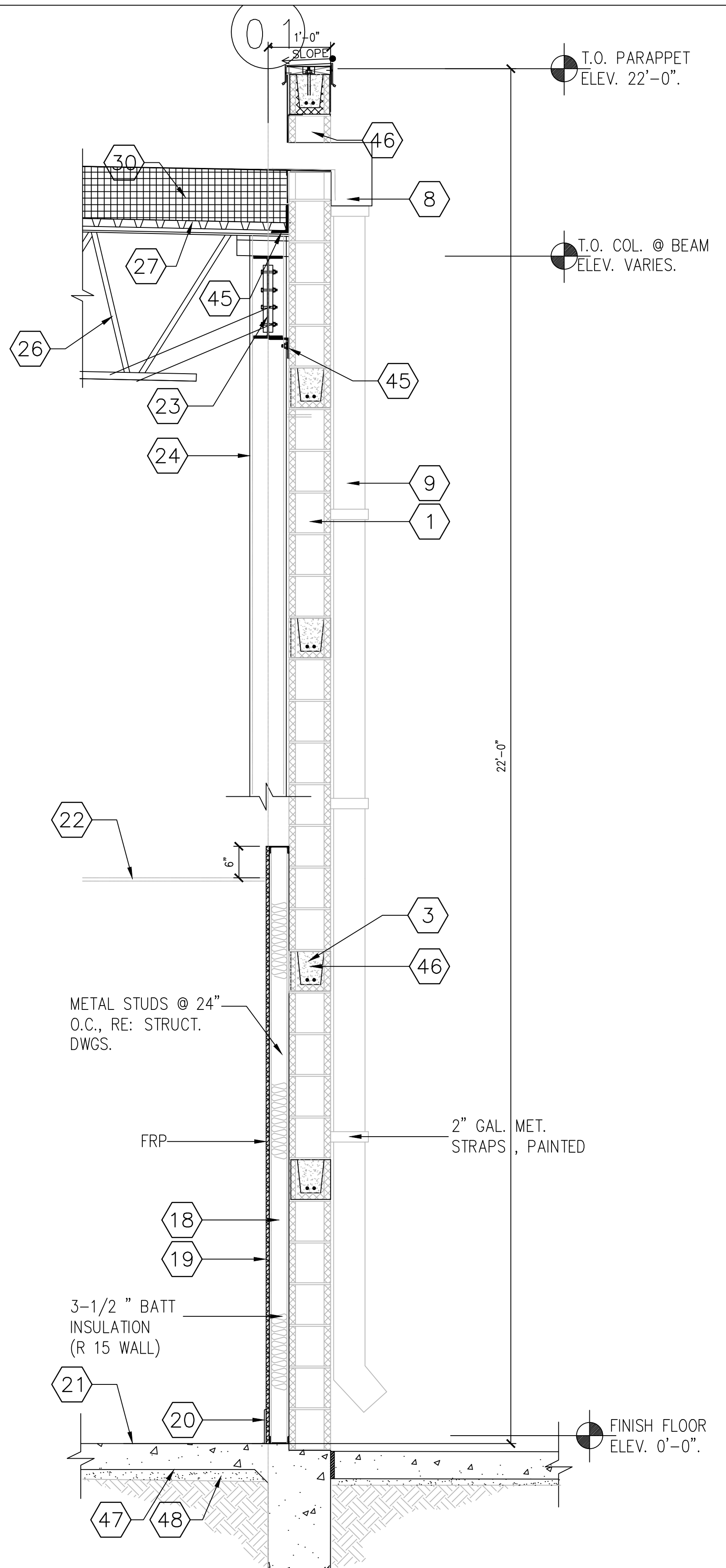
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FIRM # F-11211

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VILLA MARIA GAS STATION
1919 WEST VILLA MARIA ROAD
BRYAN, TX 77807
EXTERIOR WALL SECTIONS

DRAWN BY: BM DATE: 9-15-2021 SHEET: **A-302** Rev.0

CHECKED BY: RSK PROJ. NO.: VR151003.317.4



NOTE:
FOR SECTION DETAILS NOT SHOWN RE:
STRUCTURAL SECTIONS (TYP)

NOTE:
ALL WOOD USED SHALL BE FIRE
RETARDANT TREATED (TYP).

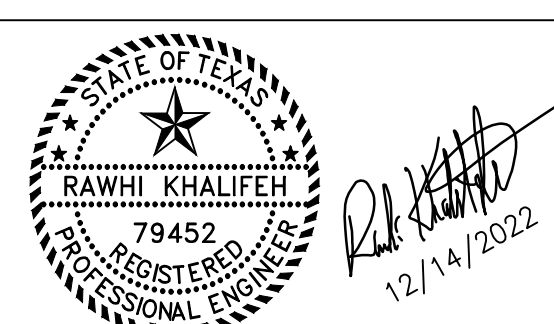
NOTE:
SIDE WALK FLUSH WITH F.F.E AT
DOORS. (TYP).

KEYED NOTES	
1	8"x8"x16" CMU
2	7/8" HARD COAT STUCCO RES: GENERAL NOTES
3	BOND BEAM @ 7'-4" CMU WALLS (TYP)
4	E.I.F.S. TRIM
5	3" CAST STONE
6	2" STONE VENEER.
7	2" BRICK VENEER.
8	CORNER REINF. ,TYP.
9	PRE-FINISHED ALUMINUM 6"x6" DOWNSPOUT AND SCUPPER HEAD
10	5/8" EXT., FIRE RESISTANT PLYWOOD SHEATHING
11	METAL CANOPY, BY MANUFACTURER
12	EXTERIOR STORE FRONT SECURITY SHUTTERS
13	ALUM. AND GLASS STORE FRONT RE: SCH.
15	WATER RESISTANT BARRIER.
16	SELF FURRING LATH & CEMENT PLASTER.
17	CONTINUOUS METAL FLASHING.
18	METAL STUD @ 16" O.C., UNLESS NOTED OTHERWISE (U.N.O.) RE: STRUCT. DWGS.
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1 EXTERIOR REAR WALL

2 EXTERIOR SIDE WALL

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

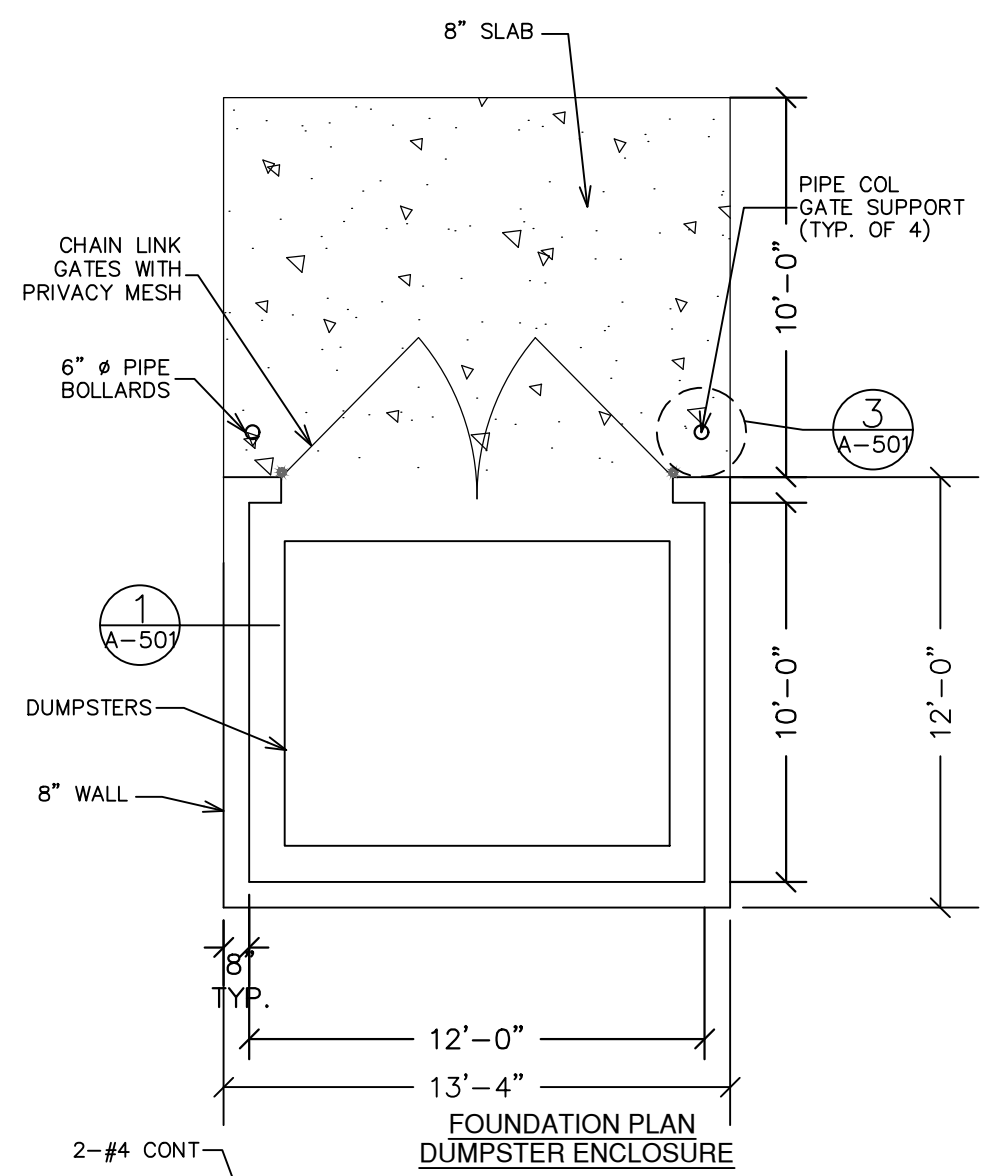


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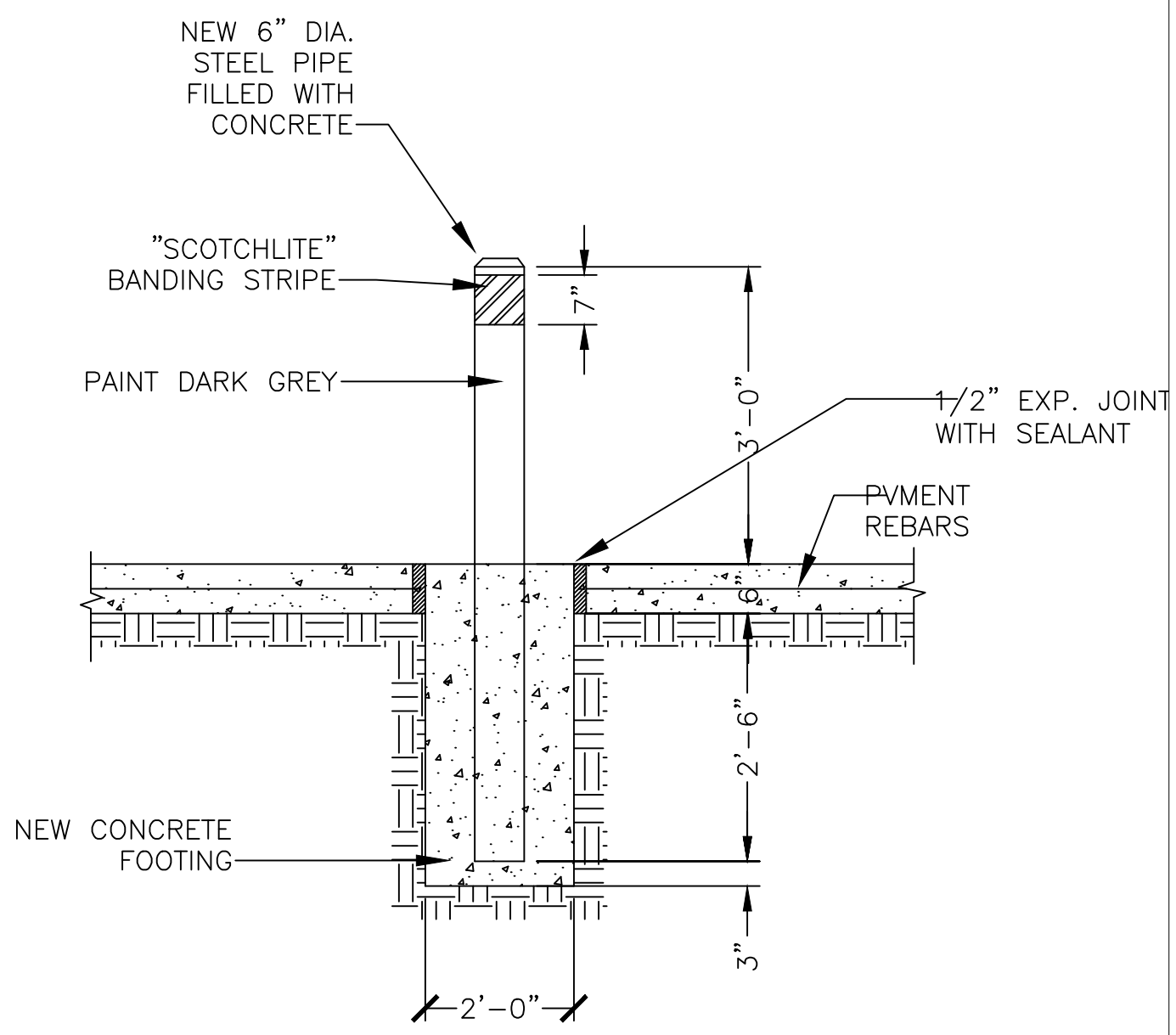
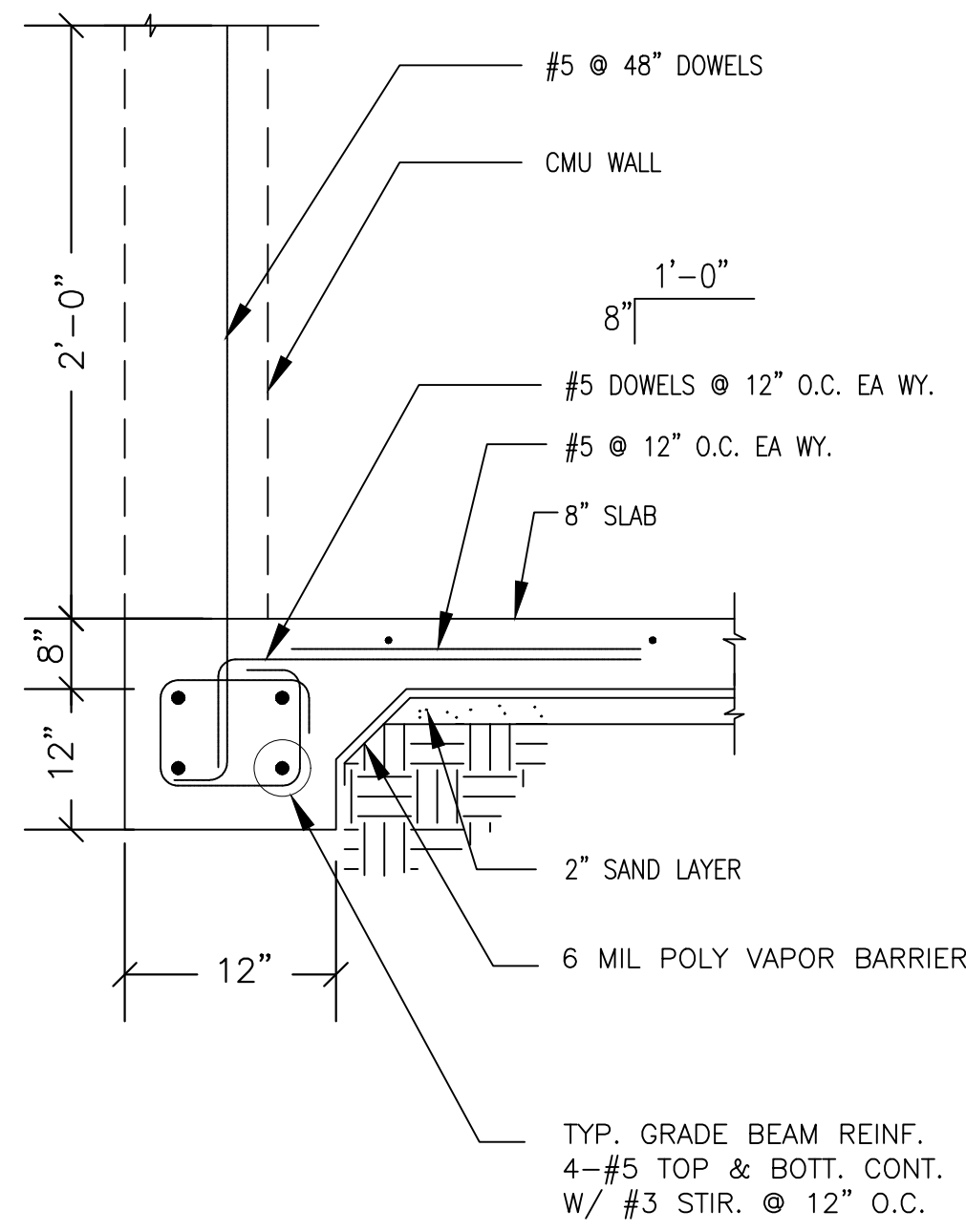
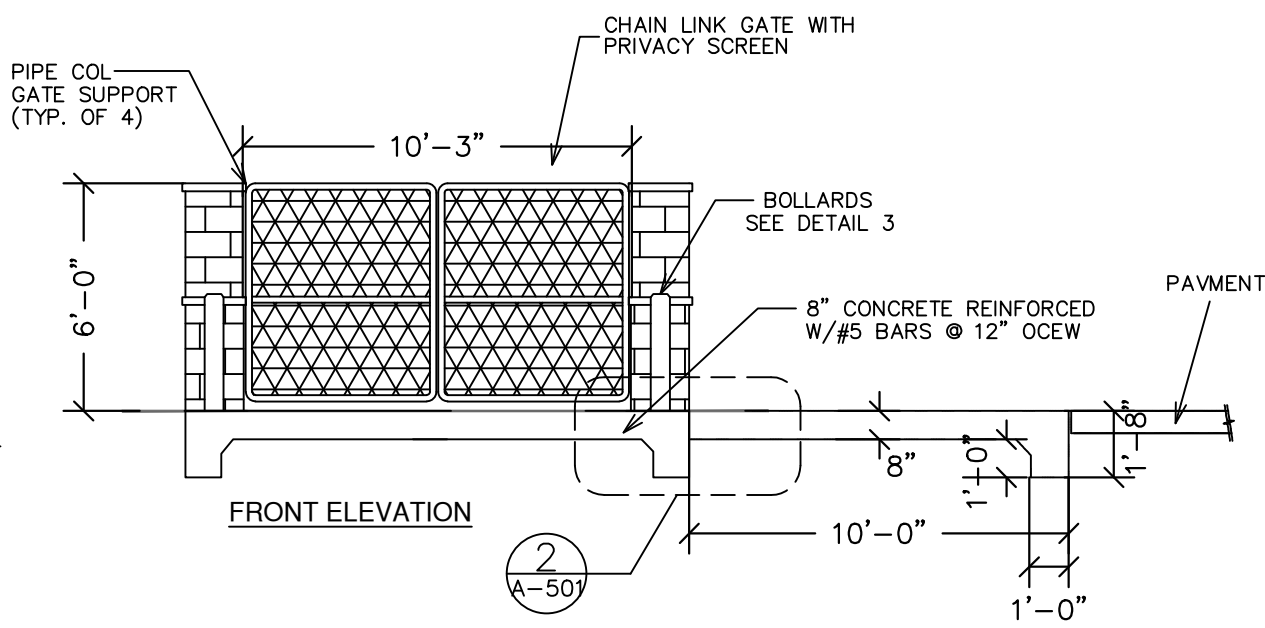
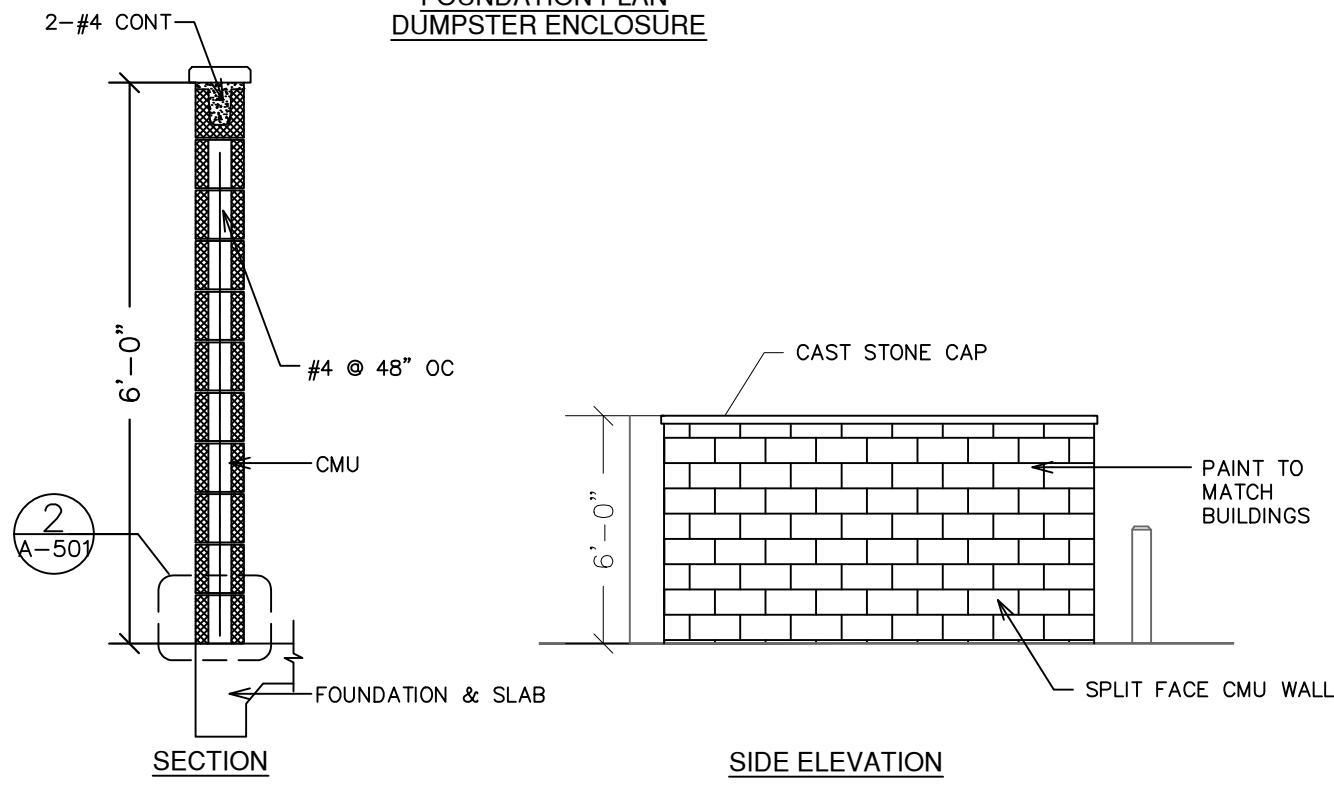
VILLA MARIA GAS STATION
1919 WEST VILLA MARIA ROAD
BRYAN, TX 77807
EXTERIOR WALL SECTIONS

DRAWN BY: BM CHECKED BY: RSK
DATE: 9-15-2021 PROJ. NO.: VR151003.317.4
SHEET: **A-303** Rev.0



NOTES
 1. BEFORE ENCLOSURE CONSTRUCTION/MODIFICATION BEGINS CONTACT SOLID WASTE , AT (979)209-5900 FOR AN ON-SITE REVIEW.
 2. IF ANY CHANGES ARE MADE TO THE ENCLOSURE PLAN DURING THE CONSTRUCTION PHASE PLEASE CONTACT SOLID WASTE TO REVIEW MODIFICATIONS.

NOTES
 1. INSTALL GATE TO SWING CLEAR OF PAVEMENT
 2. PROVIDE BOLTS TO SECURE GATES IN FULL OPEN OR CLOSED POSITION
 3. SEAL AND PAINT TO MATCH BUILDING.
 4. DUMPSTER ENCLOSURE DESIGNED FOR ULTIMATE DESIGN WIND SPEED 139 MPH, RISK CATEGORY II (SECTION 1609.3)
 5. SEE STRUCTURAL DRAWINGS FOR FOUNDATION AND WALL DETAILS.



1 DETAIL TYPICAL DUMPSTER PLAN & ELEVATIONS
 SCALE: NTS

2 DETAIL FOR DUMPSTER ENCLOSURE GRADE BEAM
 SCALE: NTS

3 DETAIL TYPICAL BOLLARD DETAIL
 SCALE: NTS

N.T.S.
 GRAPHIC SCALE

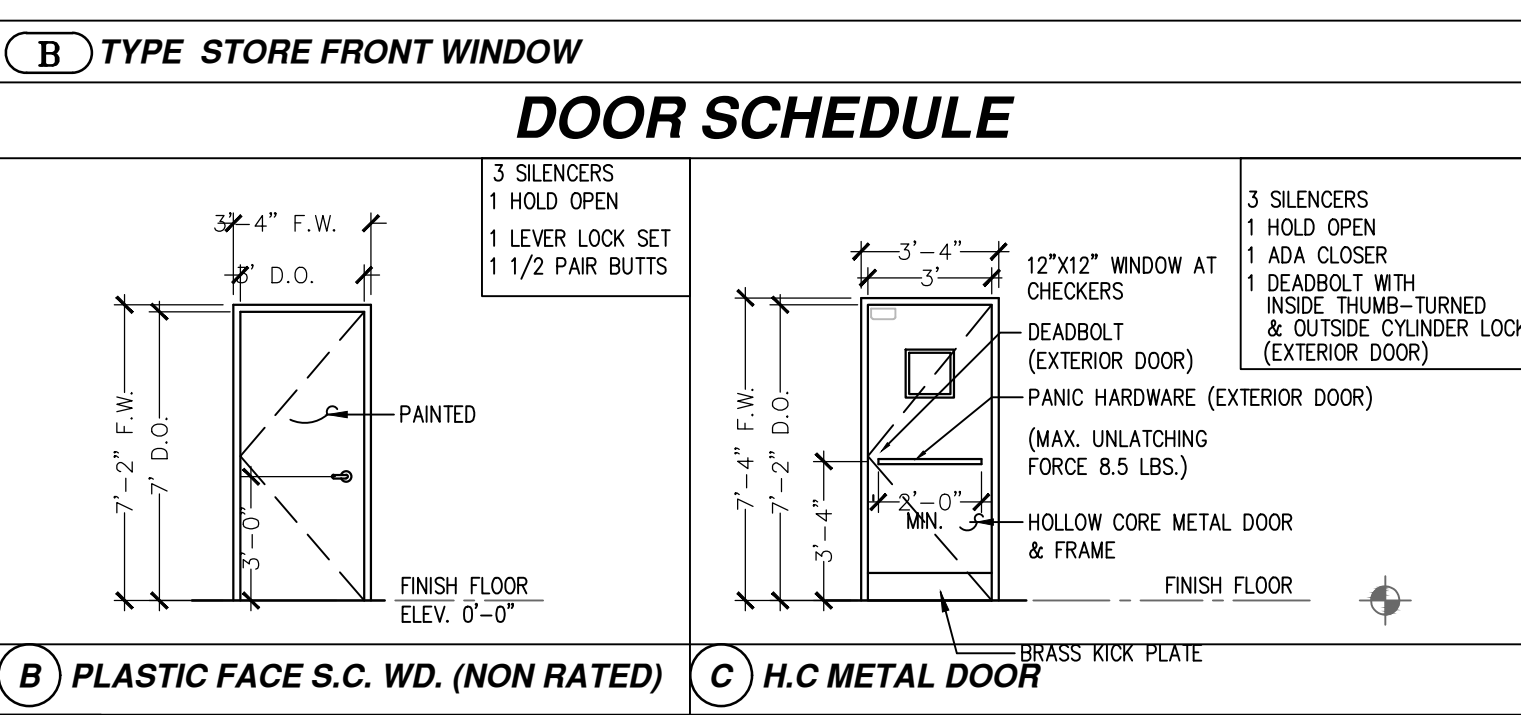
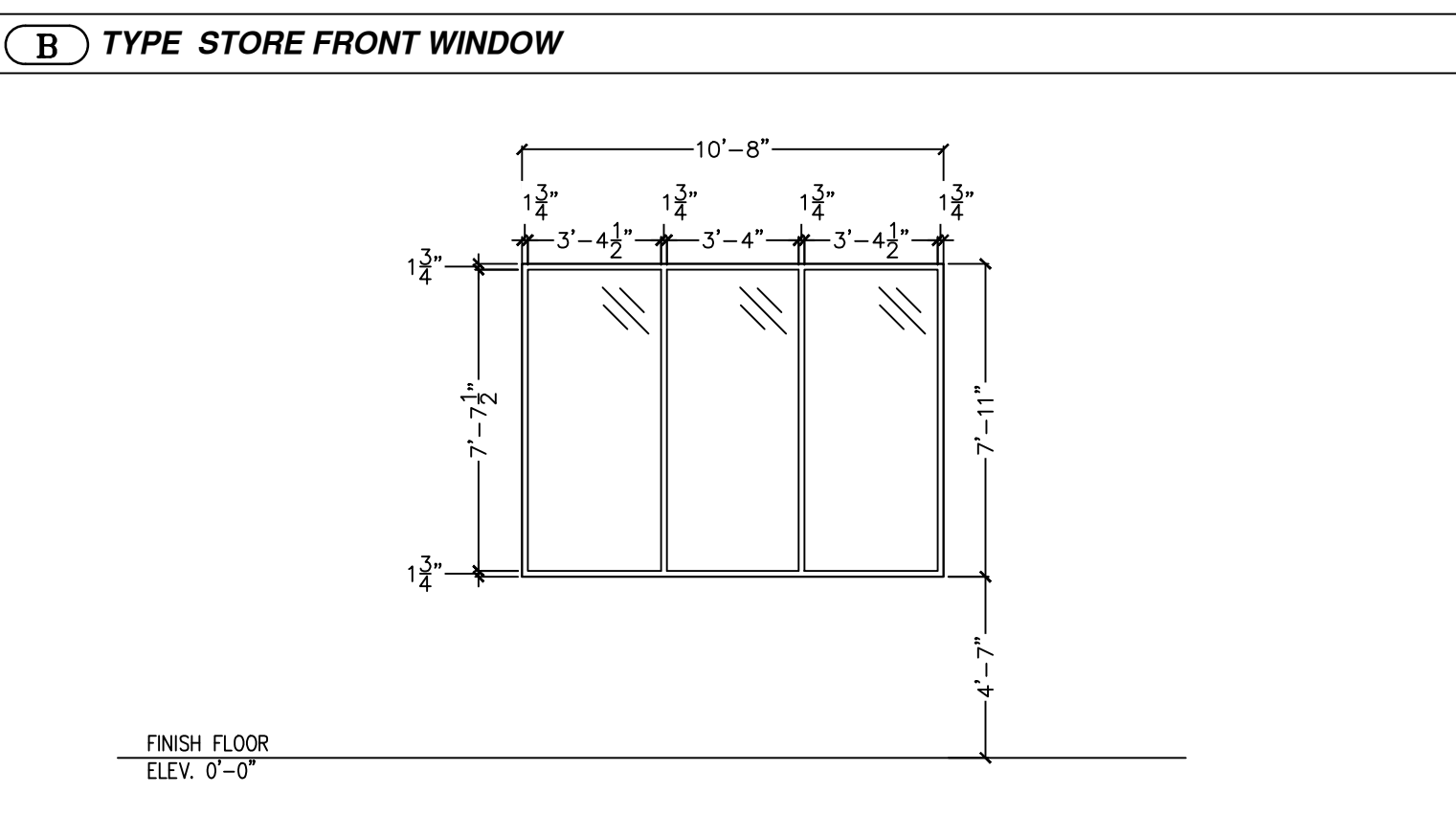
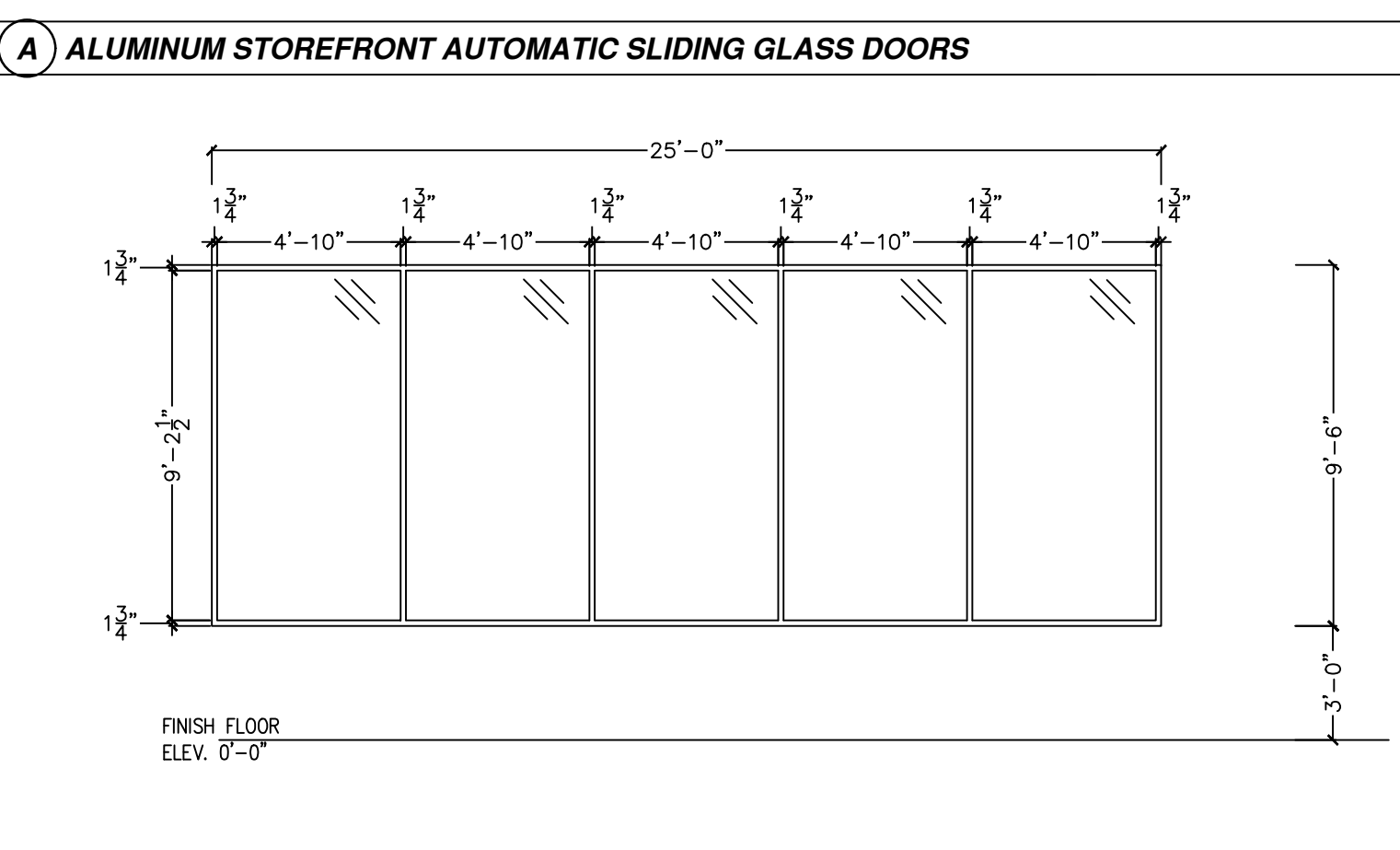
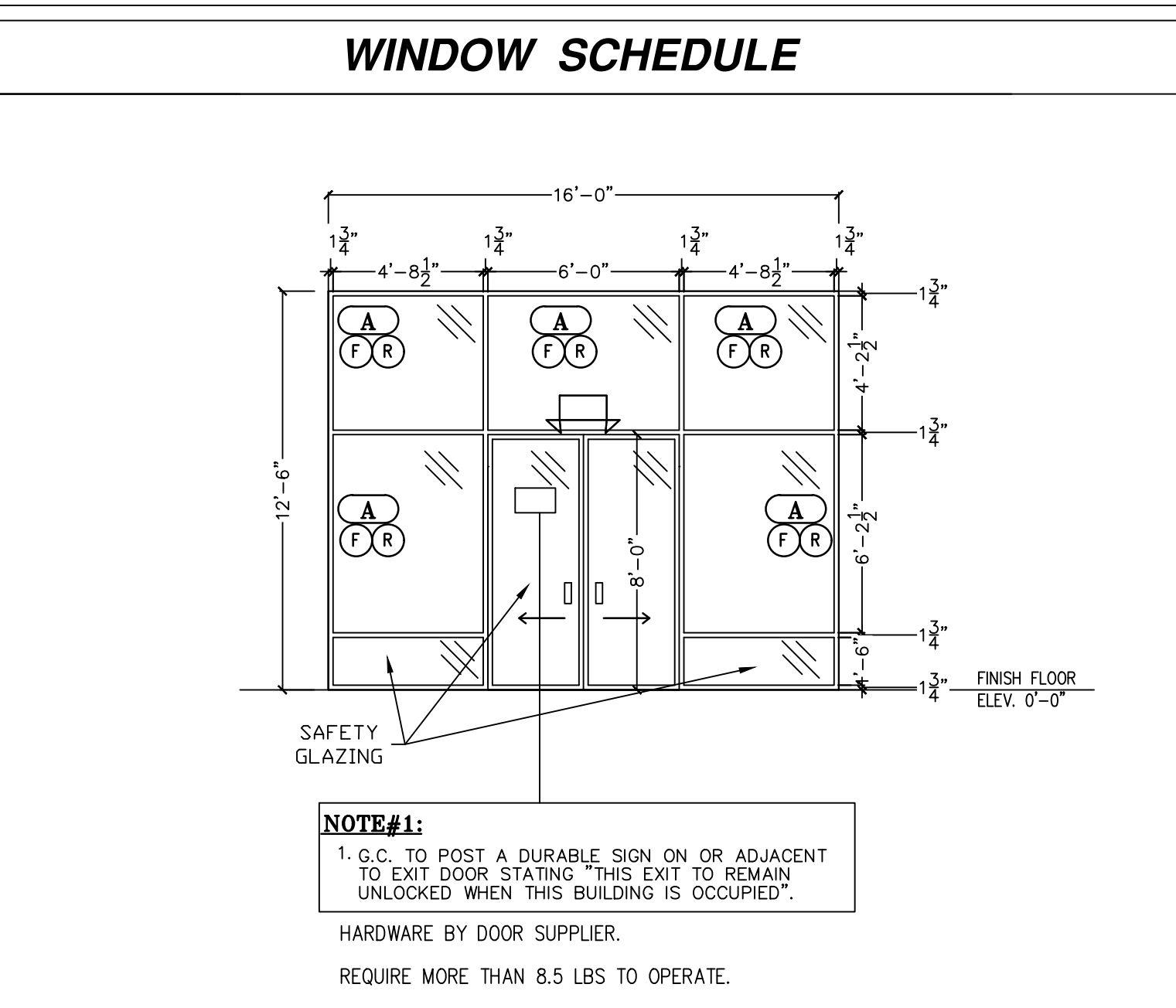
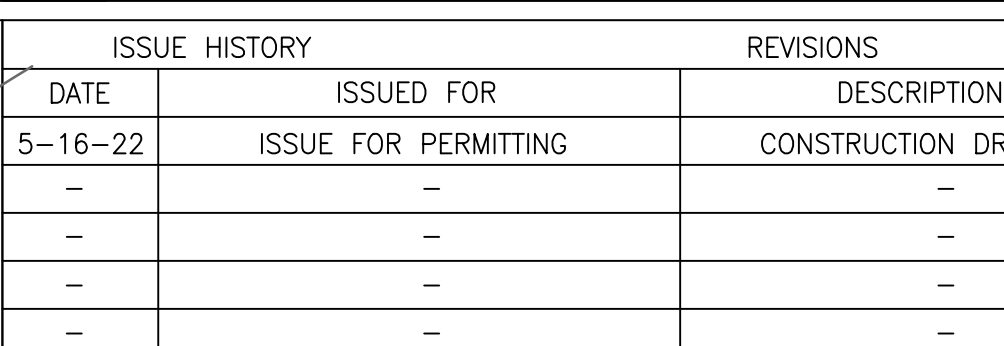
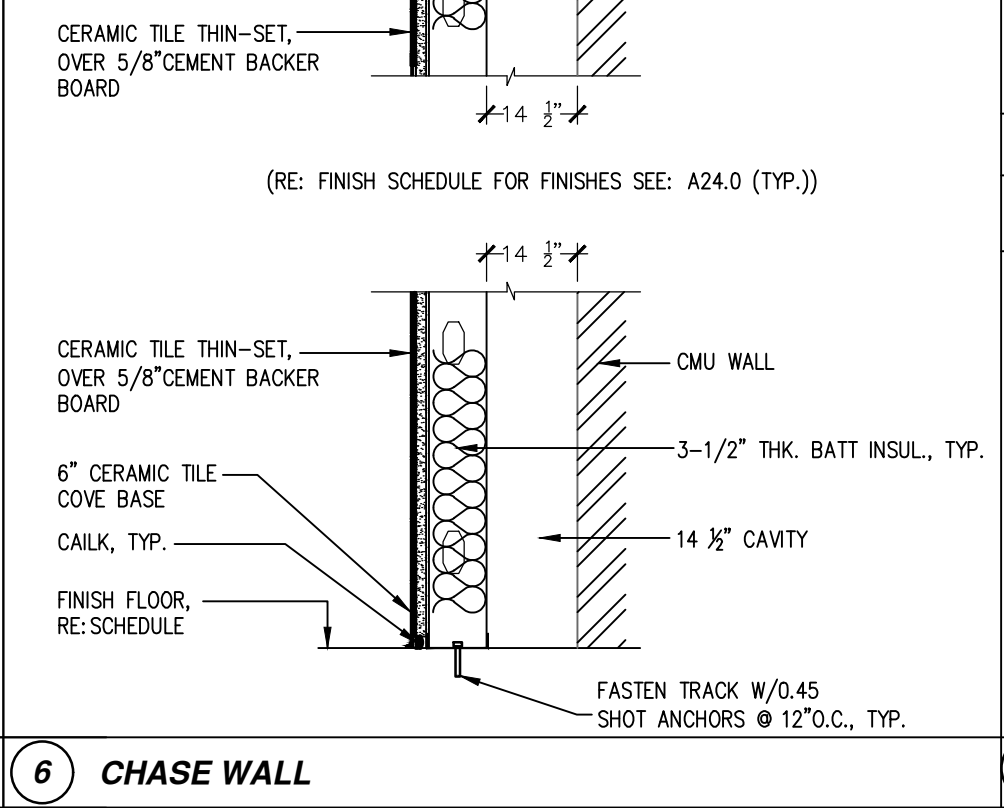
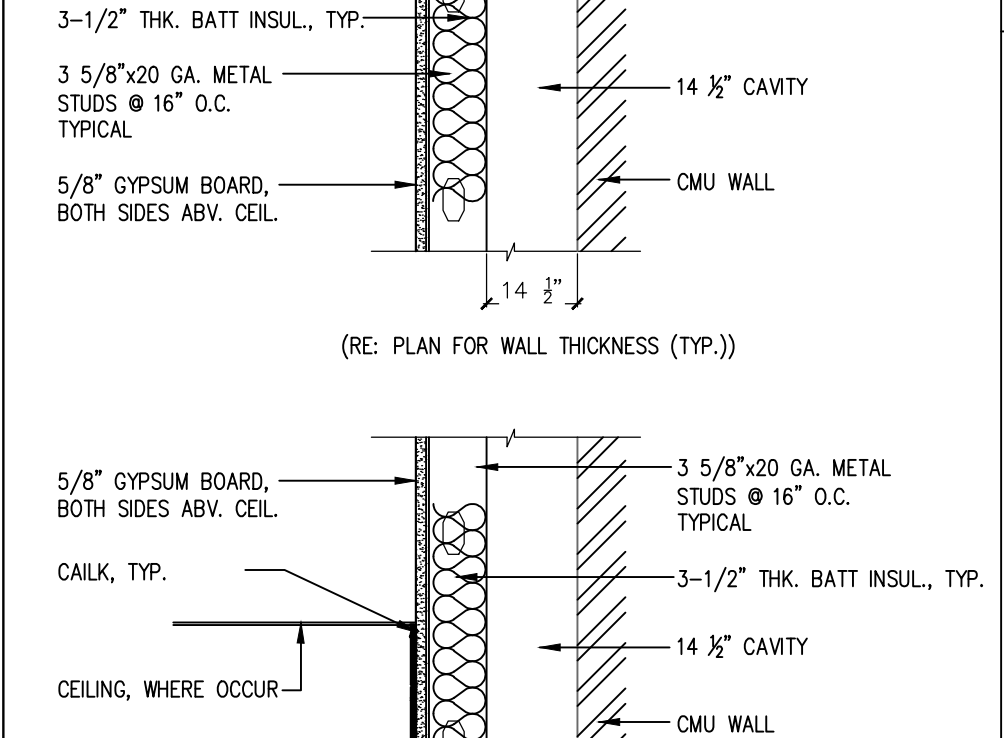
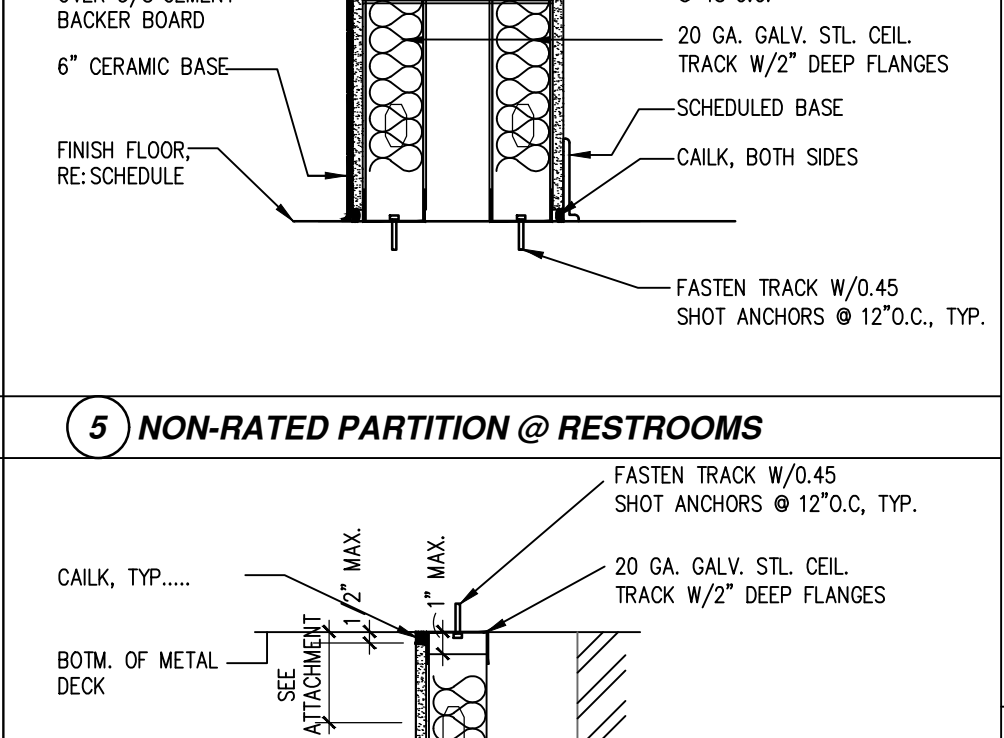
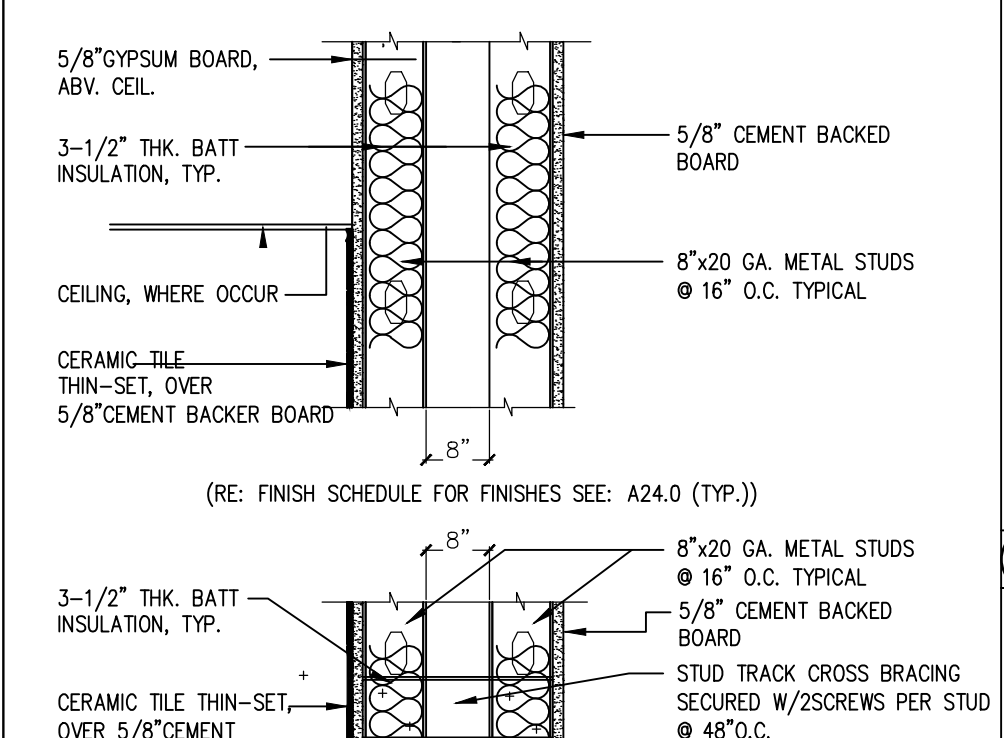
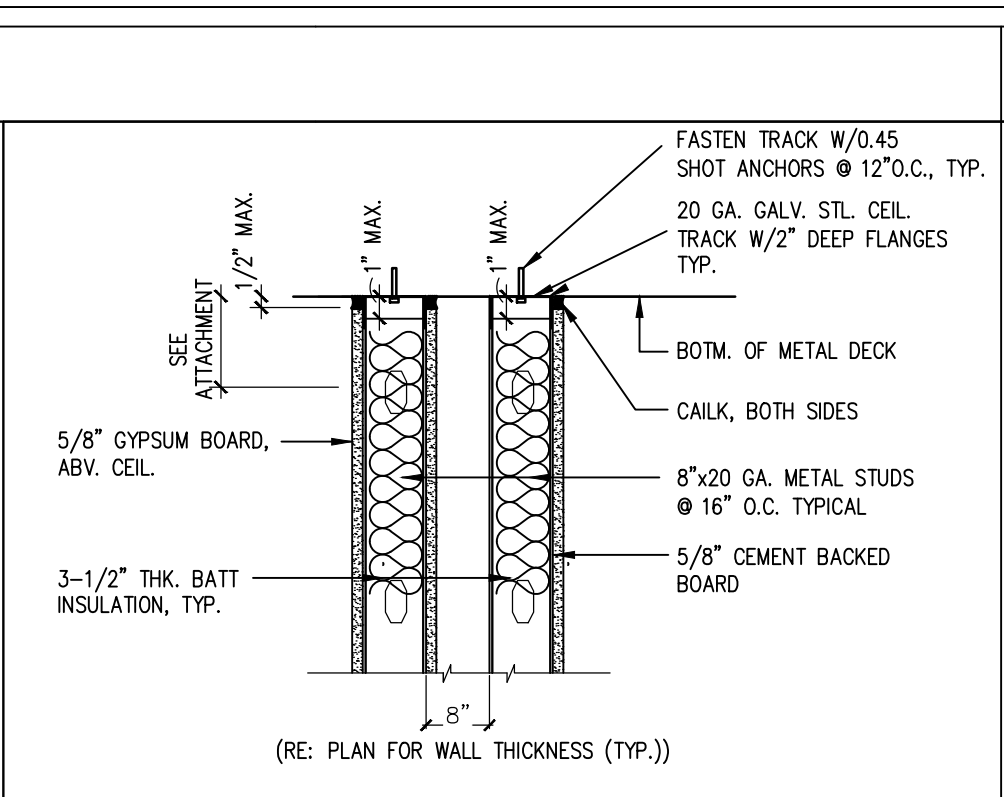
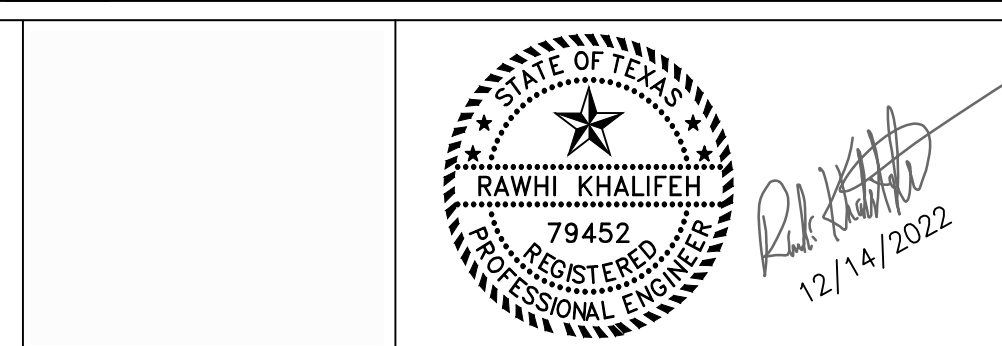
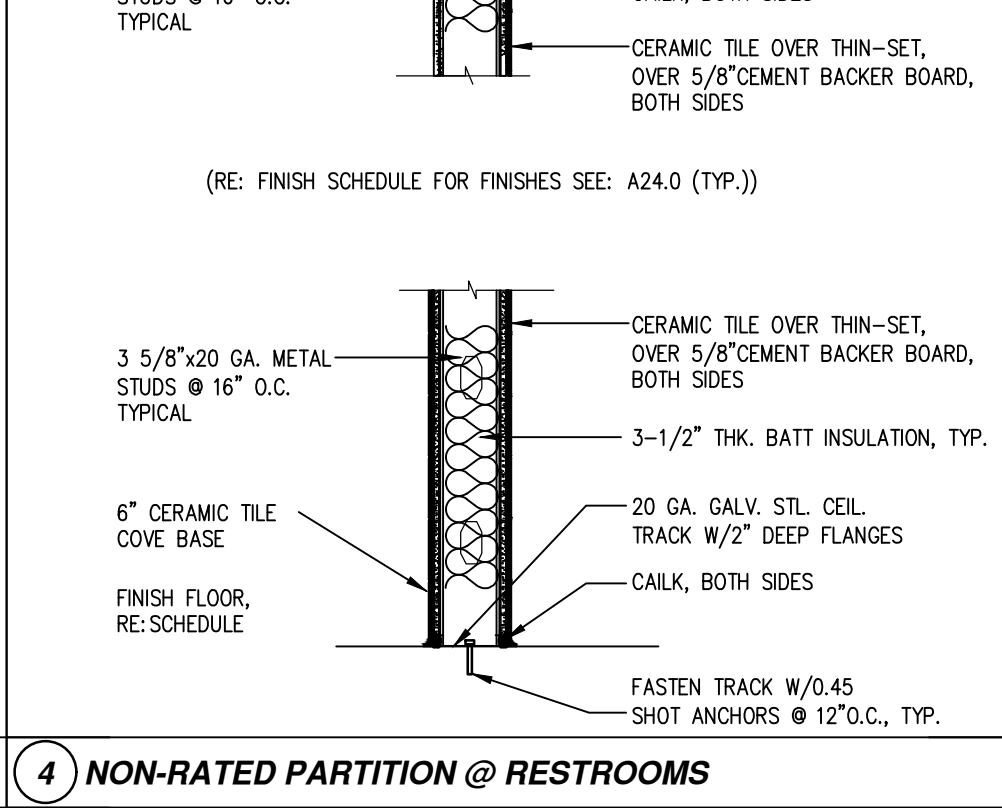
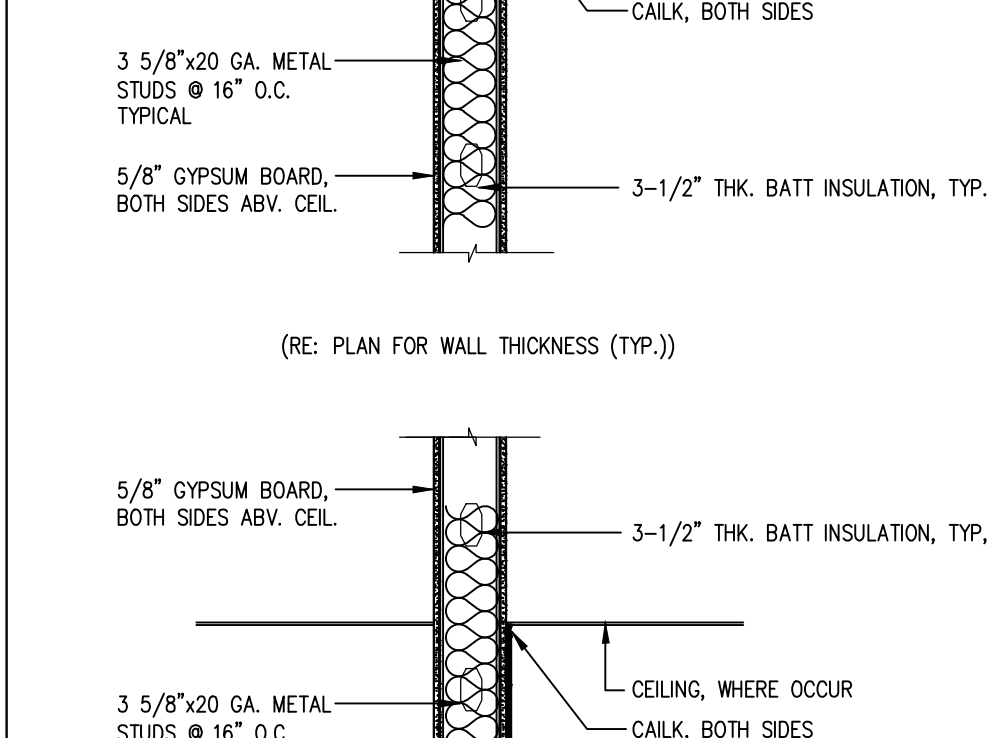
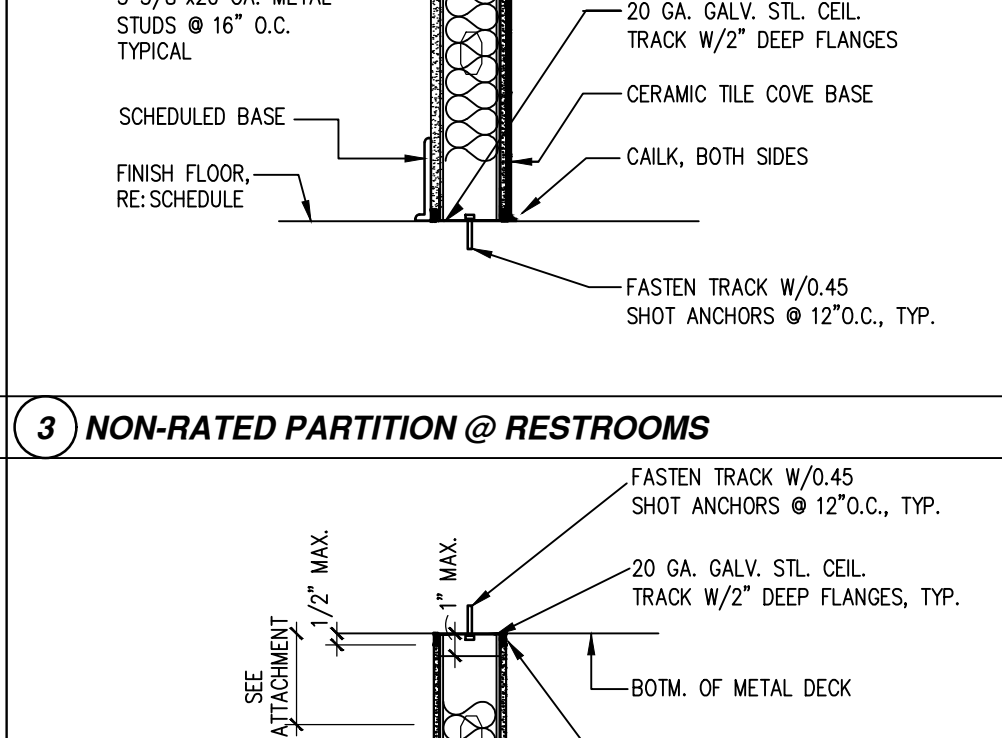
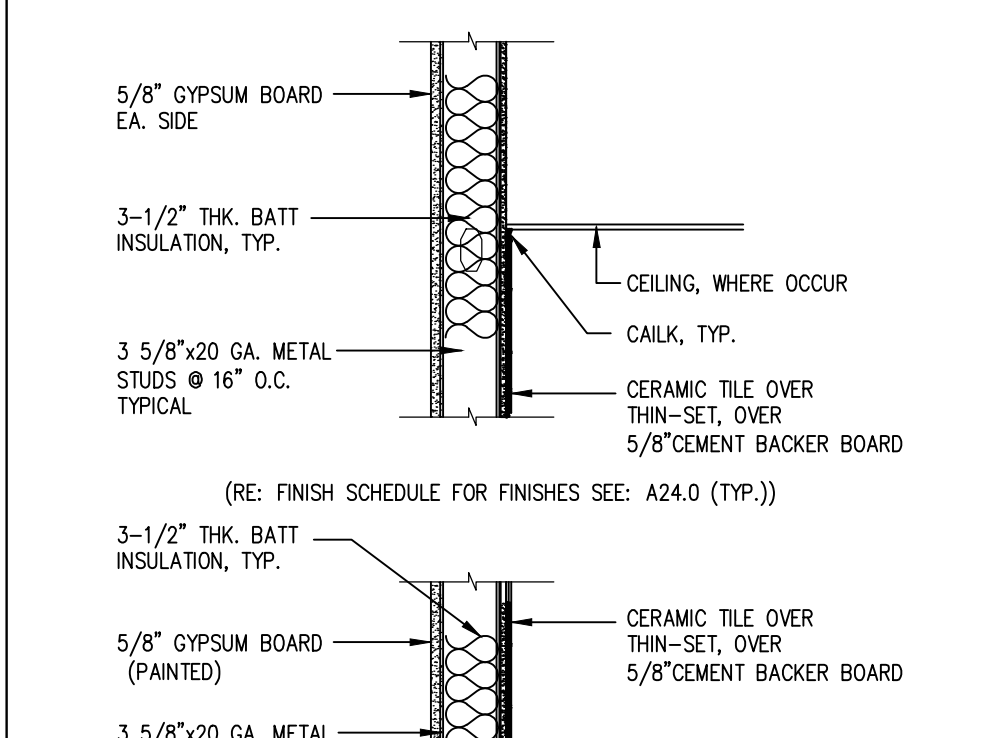
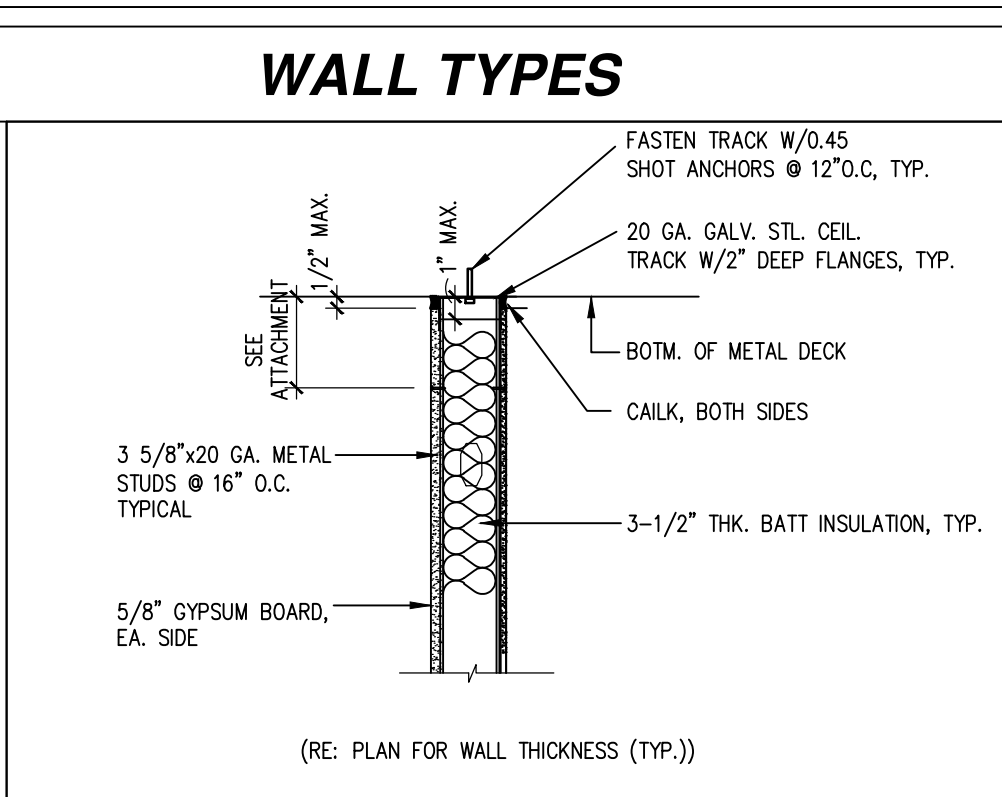
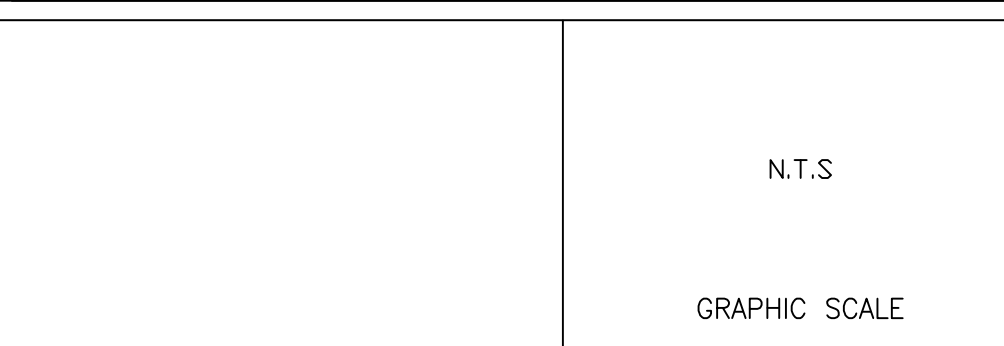
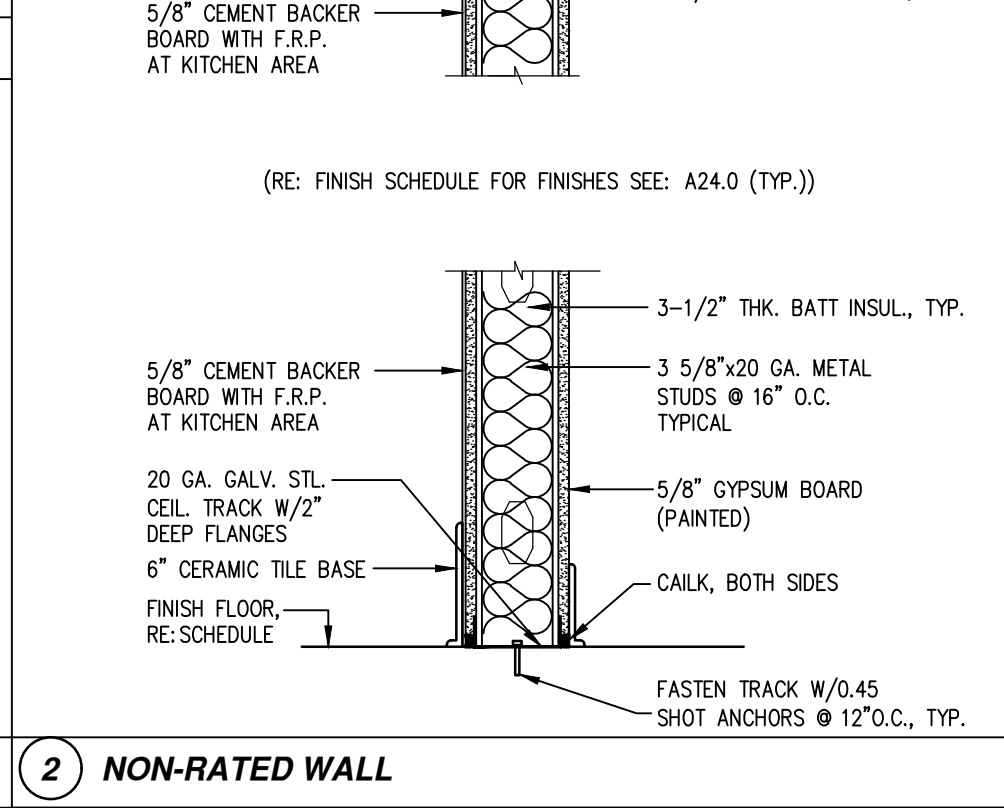
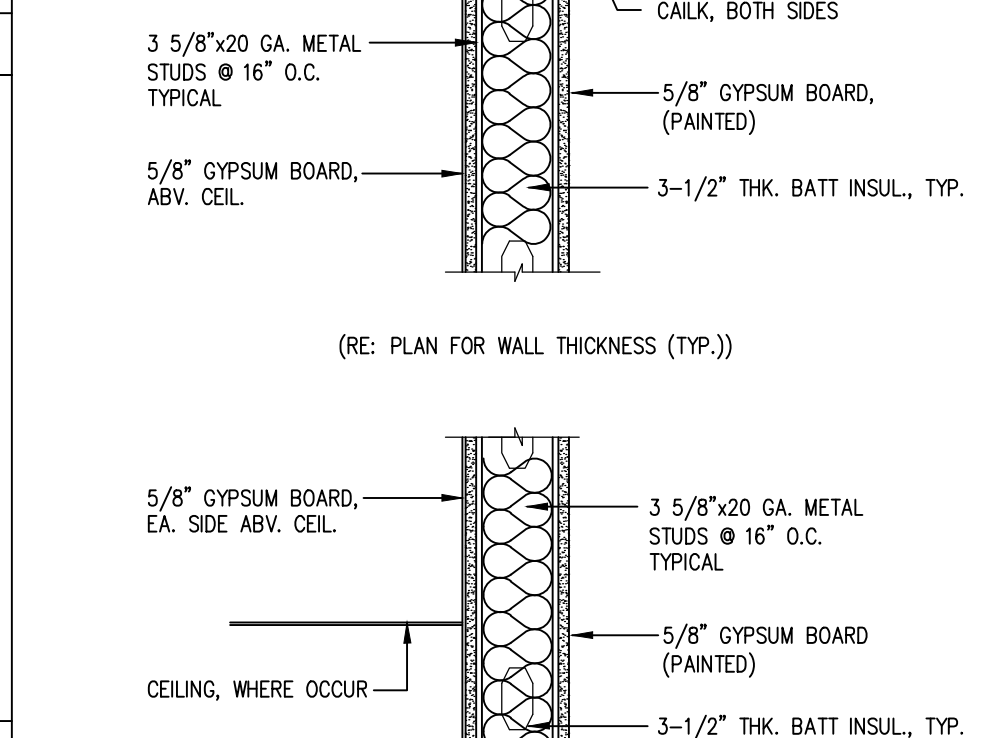
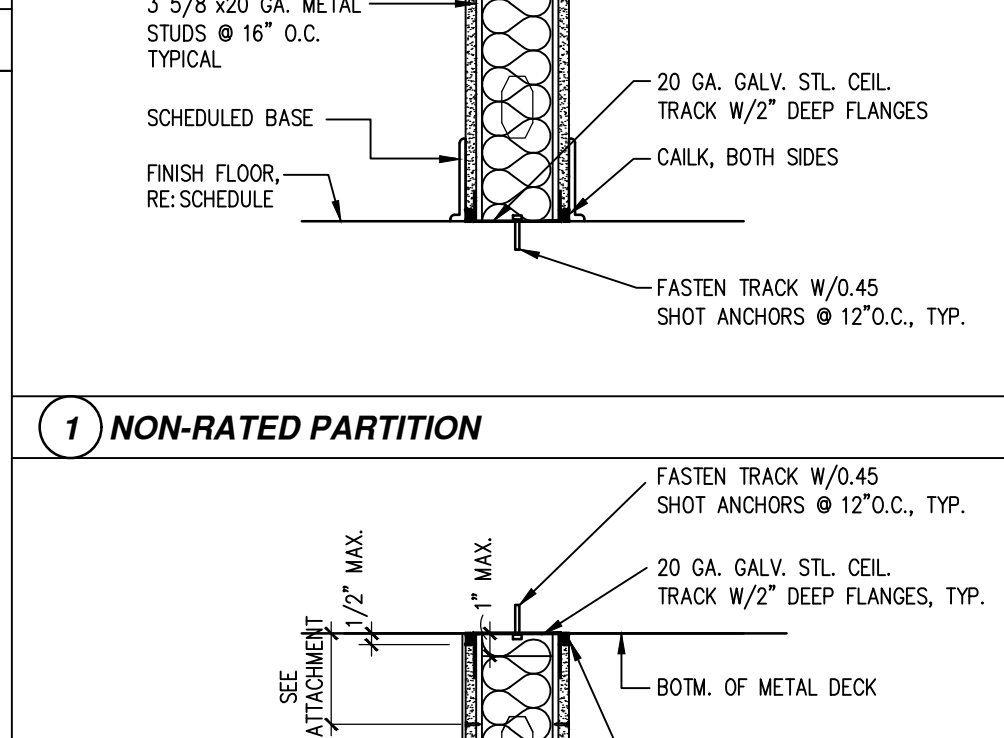
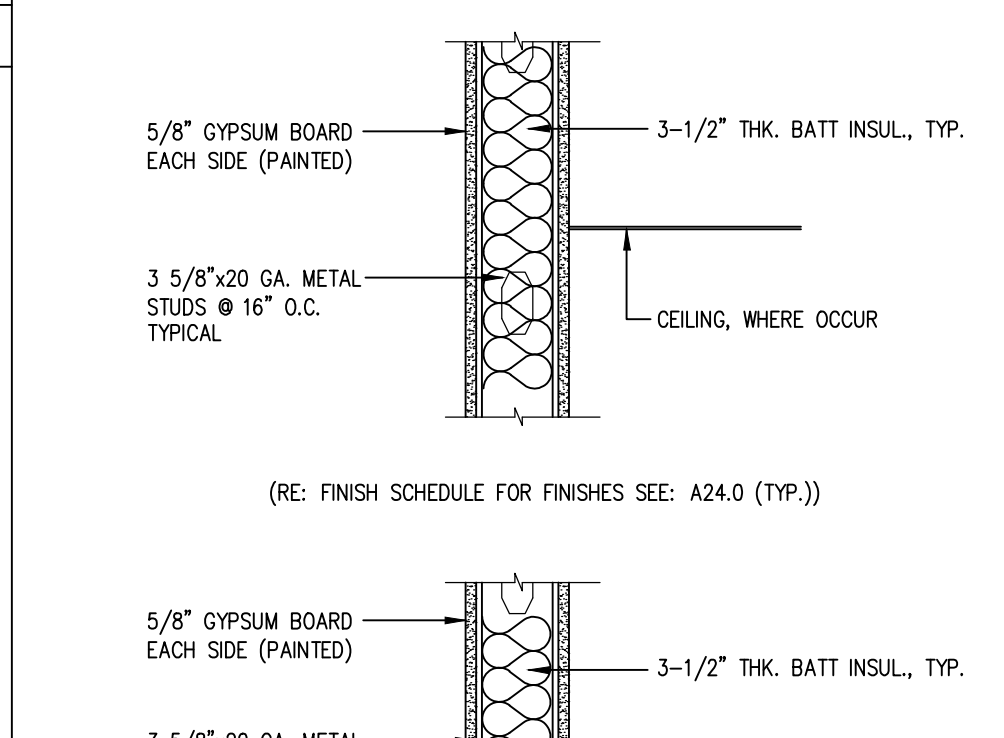
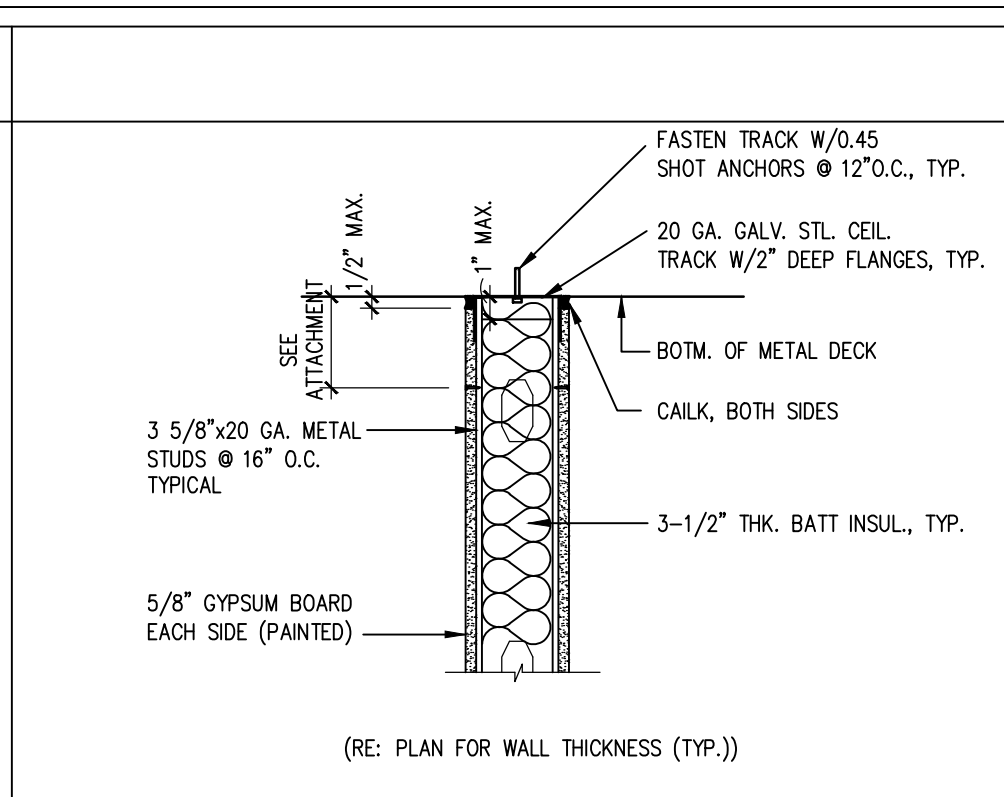
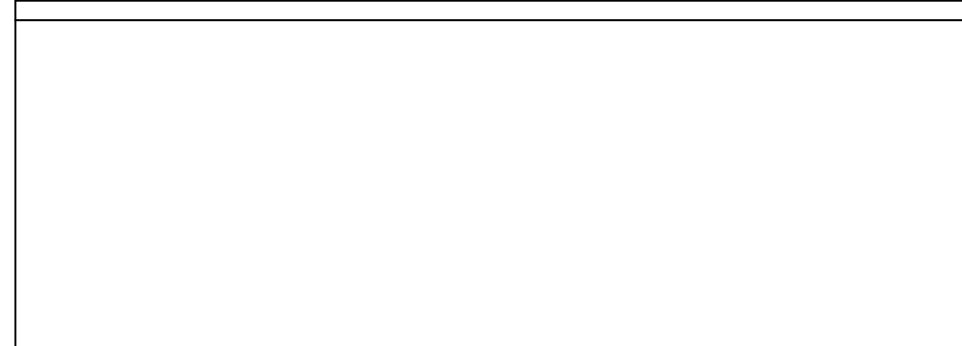
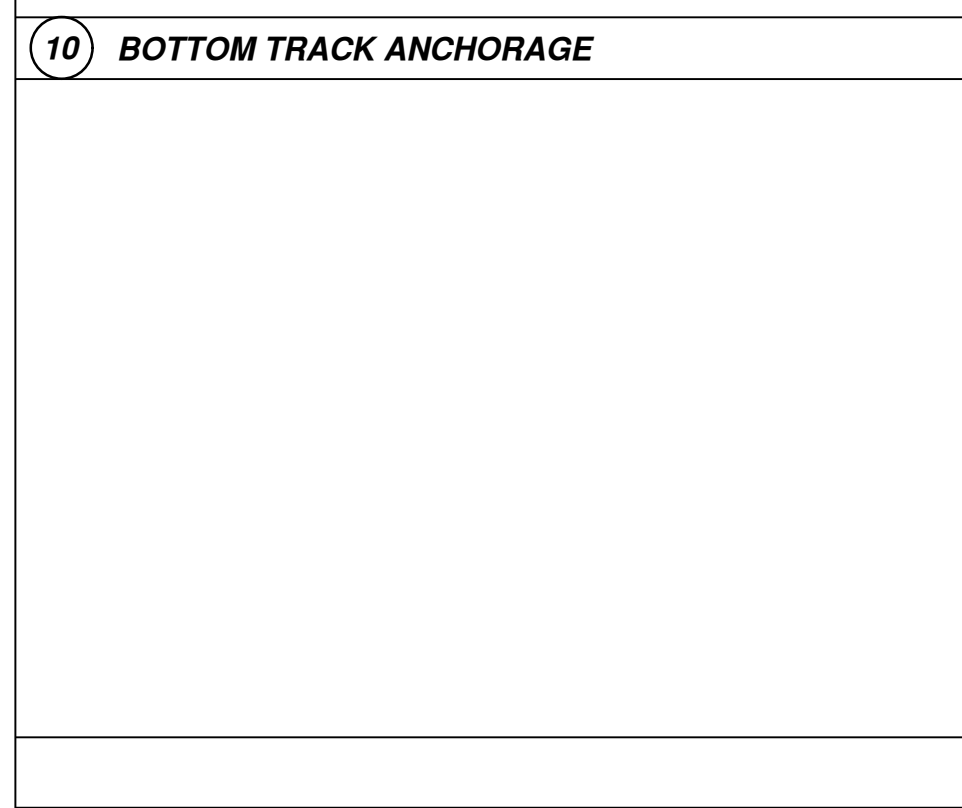
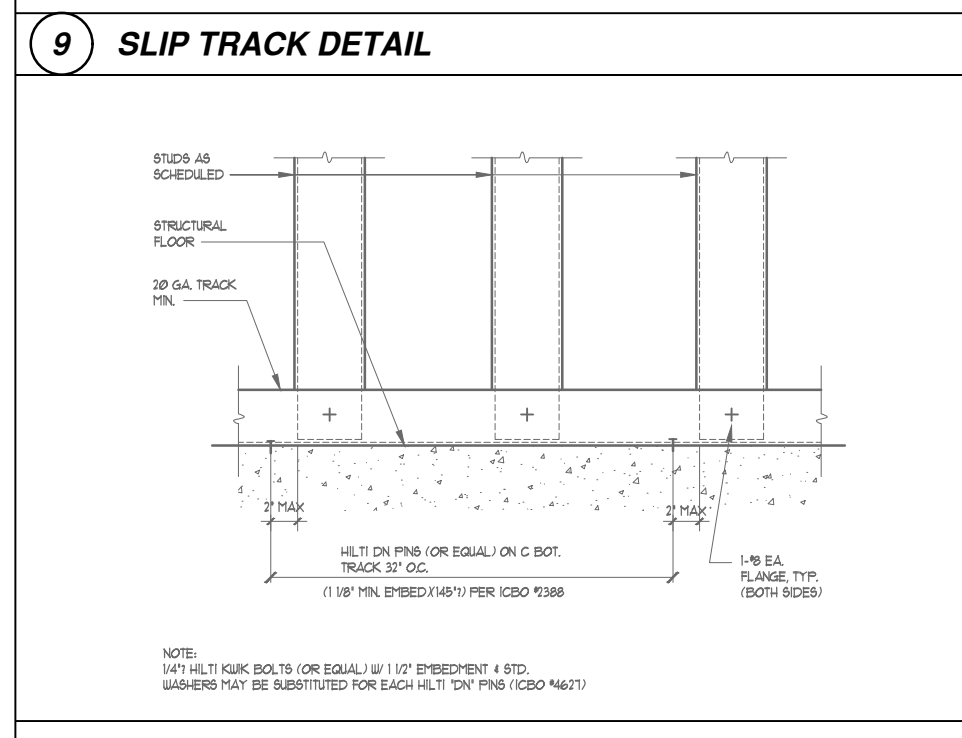
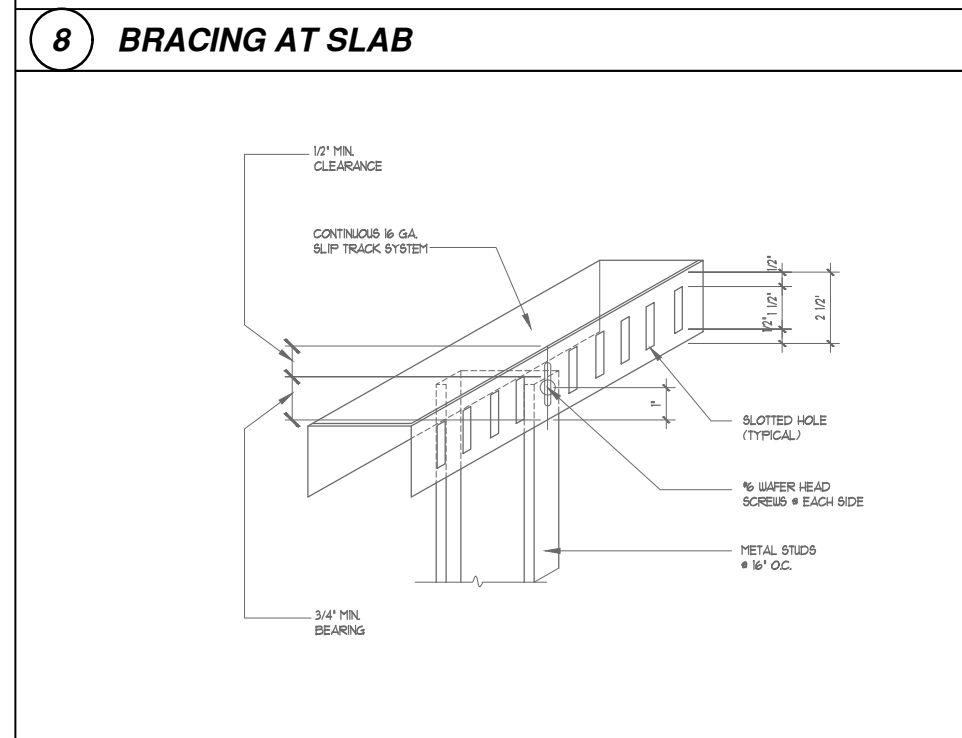
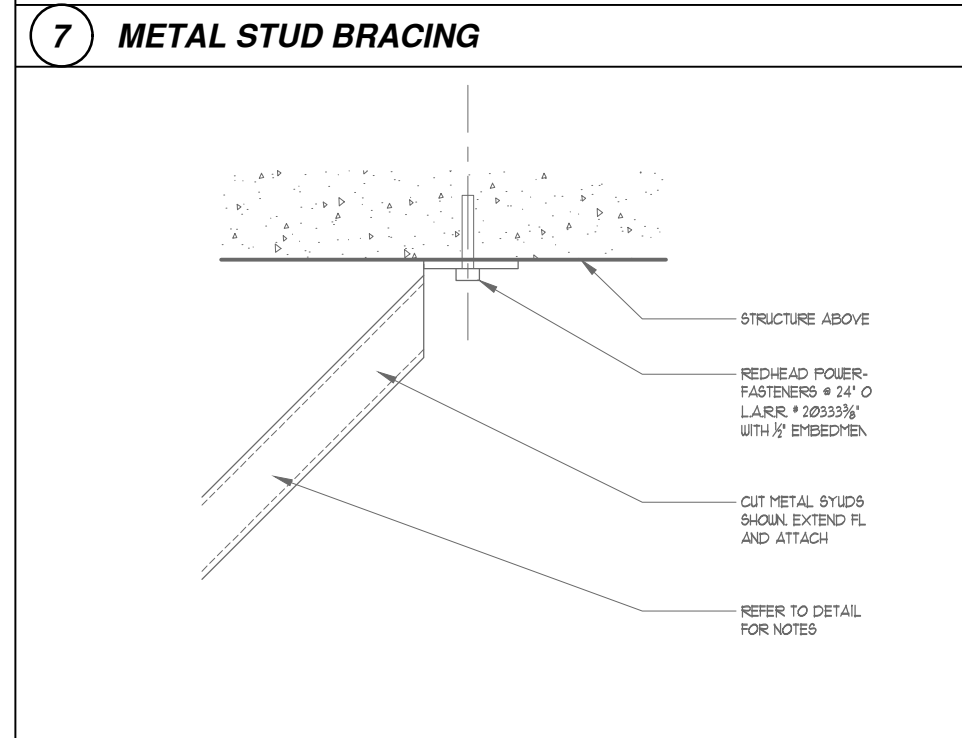
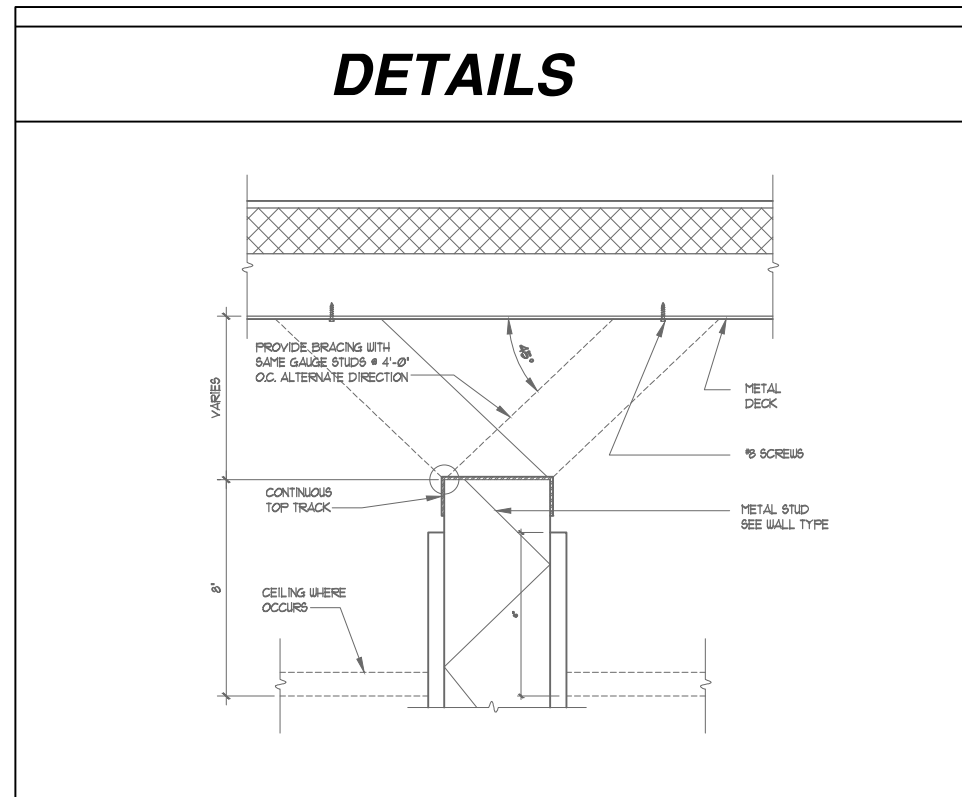


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VILLA MARIA GAS STATION
 1919 WEST VILLA MARIA ROAD
 BRYAN, TX 77807
DUMPSTER DETAILS

DRAWN BY: BM	DATE: 9-15-2021	SHEET:
CHECKED BY: RSK	PROJ. NO.: VR151003.317.4	A-501 Rev. 0



GENERAL NOTES: DOORS

EGRESS DOORS
GENERAL CONTRACTOR SHALL POST A READILY-VISIBLE DURABLE SIGN ON THE EGRESS SIDE OR ADJACENT TO THE DOOR STATING: "THIS EXIT TO REMAIN UNLOCKED WHEN THIS BUILDING IS OCCUPIED." THE SIGN SHALL BE IN LETTERS 1 INCH HIGH ON CONTRASTING BACKGROUND.

HARDWARE
1. ALL HARDWARE SHALL BE PROVIDED & INSTALLED BY DOOR SUPPLIER.
2. CLOSERS SHALL COMPLY WITH ADA REQUIREMENTS AND SHALL NOT REQUIRE MORE THAN 8.5 LBS TO OPERATE.
3. DOOR HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES ON DOORS ARE REQUIRED TO BE ACCESSIBLE (IBC 2015 SEC. 1008.1.9, AND SEC.1008.1.9.3)

ADA STANDARD NOTES (DOORS)

TAS SECTION 4.13--DOORS

SECTION 4.13.4-- DOUBLE-LEAF DOORWAYS
DOORWAYS WITH TWO INDEPENDENTLY OPERATED LEAVES SHALL HAVE AT LEAST ONE LEAF THAT MEETS THE REQUIREMENTS IN 4.13.5 AND 4.13.6.

SECTION 4.13.5-- CLEAR WIDTH
DOORWAYS SHALL PROVIDE A CLEAR OPENING OF 32" MINIMUM, WITH THE DOOR OPEN 90°. 1. CLEAR OPENING SHALL BE MEASURED BETWEEN THE FACE OF THE DOOR AND STOP.
2. OPENINGS MORE THAN 24" IN DEPTH SHALL PROVIDE A CLEAR OPENING OF 36" MINIMUM. EXCEPTION: DOORS NOT REQUIRING FULL USER PASSAGE, SUCH AS SHALLOW CLOSETS, SHALL HAVE A CLEAR OPENING OF 20" MINIMUM.

SECTION 4.13.6-- MANEUVERING CLEARANCES AT DOORS
PROVIDE LEVEL AND CLEAR MANEUVERING AREA AT DOORS AS FOLLOWS:
FRONT APPROACH PULL SIDE - 18" MIN. BESIDE STRIKE EDGE.
FRONT APPROACH PUSH SIDE - 0" BESIDE STRIKE EDGE.
HINGE SIDE APPROACH PULL SIDE - 60" MIN. WIDTH 36" MIN. BESIDE STRIKE EDGE.
HINGE SIDE APPROACH PUSH SIDE - 42" MIN. WIDTH.
12" IF DOOR HAS BOTH A CLOSER AND A LATCH.
LATCH SIDE APPROACH PULL SIDE - 48" MIN. WIDTH AND 24" MIN. BESIDES STRIKE EDGE.
LATCH SIDE APPROACH PUSH SIDE - 42" MIN. WIDTH AND 42" MIN. BESIDES STRIKE EDGE.
54" MIN. WIDTH IF DOOR HAS A CLOSER.

SECTION 4.13.8-- THRESHOLDS AT DOORWAYS
MAXIMUM THRESHOLD HEIGHT: (1) AT EXTERIOR SLIDING DOOR, RAISED THRESHOLDS AND FLOOR LEVEL CHANGES SHALL BE BROCKED WITH A SLOPE NO GREATER THAN 1:2.

SECTION 4.13.9-- DOOR HARDWARE
HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE.
1. LEVER-OPERATED MECHANISMS, PUSH-TYPE MECHANISMS, AND U-SHAPE HANDLES ARE ACCEPTABLE DESIGNS.
2. WHEN SLIDING DOORS ARE FULLY OPEN, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES.
3. HARDWARE REQUIRED FOR PASSAGE SHALL BE MOUNTED NO HIGHER THAN 48" ABOVE FINISHED FLOOR.

SECTION 4.13.11-- DOOR OPENING FORCE
THE MAXIMUM FORCE FOR PUSHING OR PULLING OPEN A DOOR SHALL BE AS FOLLOWS:
1. FIRE DOORS SHALL HAVE THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATION AUTHORITY.
2. OTHER DOORS:
A. EXTERIOR HINGED DOORS: NOT REQUIRED
B. INTERIOR HINGED DOORS: 5 LBF.
C. SLIDING OR FOLDING DOORS: 5 LBF.
THESE FORCES DO NOT APPLY TO THE FORCE REQUIRED TO RETRACT LATCH BOLTS OR DISENGAGE OTHER DEVICES THAT MAY HOLD THE DOOR IN A CLOSED POSITION.

WINDOW LEGEND

(T) TEMPERED GLAZING (F) FIXED (O) OPERABLE (R) REGULAR

FINISH SCHEDULE

ROOM	FLOOR	BASE	WALL	CEILING
100-DISPLAY AREA	CERAMIC TILE	6" CERAMIC BASE	PAINTED GYPSUM BOARD	OPEN TO ROOF STRUCTURE
101-CASHER AREA	CERAMIC TILE	6" CERAMIC BASE	PAINTED GYPSUM BOARD COLOR TO BE SELECTED BY OWNER	2x2 V.C.T. WHITE COLOR
102-HALLWAY	CERAMIC TILE	6" CERAMIC BASE	PAINTED GYPSUM BOARD	2x2 V.C.T. WHITE COLOR
103-MEN RR	CERAMIC TILE	6" CERAMIC BASE	8"x8" CERAMIC TILE TO CEILING COLOR TO BE SELECTED BY OWNER	SHEET ROCK WHITE GLOSS PAINT
104-WOMEN RR	CERAMIC TILE	6" CERAMIC BASE	8"x8" CERAMIC TILE TO CEILING COLOR TO BE SELECTED BY OWNER	SHEET ROCK WHITE GLOSS PAINT
105-OFFICE AREA	CERAMIC TILE	6" CERAMIC BASE	PAINTED GYPSUM BOARD COLOR TO BE SELECTED BY OWNER	2x2 V.C.T. WHITE COLOR
106-KITCHEN AREA	CERAMIC TILE	6" CERAMIC BASE	F.R.P. WITH GYPSUM BOARD WHITE COLOR TO THE CEILING	2x2 V.C.T. WHITE COLOR
107-COOLER	SEALED SMOOTH FINISH CONCRETE	NONE	COOLER INSULATION (REFER TO COOLER NOTE ON SHEET A-001)	COOLER INSULATION (REFER TO COOLER NOTE ON SHEET A-001)
108-BEAR CAVE	SEALED SMOOTH FINISH CONCRETE	NONE	COOLER INSULATION (REFER TO COOLER NOTE ON SHEET A-001)	COOLER INSULATION (REFER TO COOLER NOTE ON SHEET A-001)
109-MAINTENANCE ROOM	SEALED SMOOTH FINISH CONCRETE	6" CERAMIC TILE BASE	F.R.P. WITH GYPSUM BOARD WHITE COLOR TO THE CEILING	2x2 V.C.T. WHITE COLOR

BATHROOM GENERAL NOTES:

- LAVATORY AND WATER CLOSETS ARE TO HAVE LEVER TYPE CONTROLS. WATER CLOSET CONTROLS SHALL BE LOCATED ON THE SIDE OPPOSITE THE NEAREST WALL.
- ADA HANDICAP SYMBOLS (UNBRILLE, GRADE 2) TO BE LOCATED WITHIN 2' ADJACENT TO DOOR LATCH & 60" TO CENTERLINE AS REQUIRED BY LOCAL AUTHORITY.
- GRAB BAR AND SEAT SHALL WITHSTAND A LOAD OF NOT LESS THAN 250 POUNDS APPLIED AT ANYONE POINT.
- PROVIDE 1-1/2" CLEARANCE BETWEEN GRAB BAR AND WALL.
- GRAB BAR ON SIDE WALL TO BE OFFSET 12" MAX. FROM REAR WALL.
- HOT WATER AND DRAIN PIPES UNDER LAVATORY SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT.
- ACCESSIBLE RESTROOM FLOORS SHALL HAVE A SMOOTH, HARD, NONABSORBENT SURFACE THAT EXTENDS UPWARD ONTO THE WALLS AT LEAST 6 INCHES. (AS PER IBC 2015 SEC. 210.2.1)

HEALTH NOTES:

- G.C. MUST USE A MIN. 6" HIGH COVERED SANITARY BASE AT ALL WET LOCATIONS.

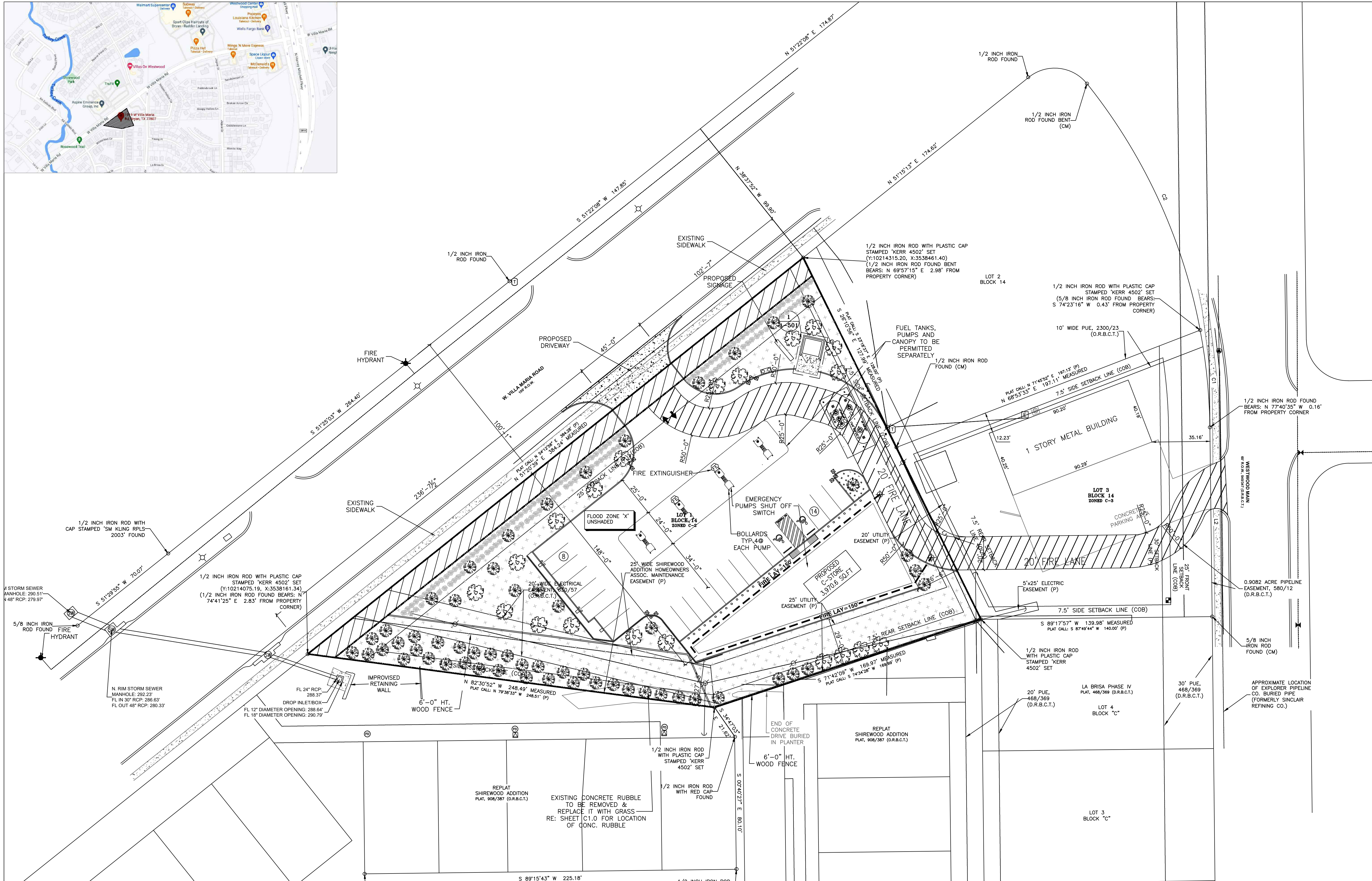
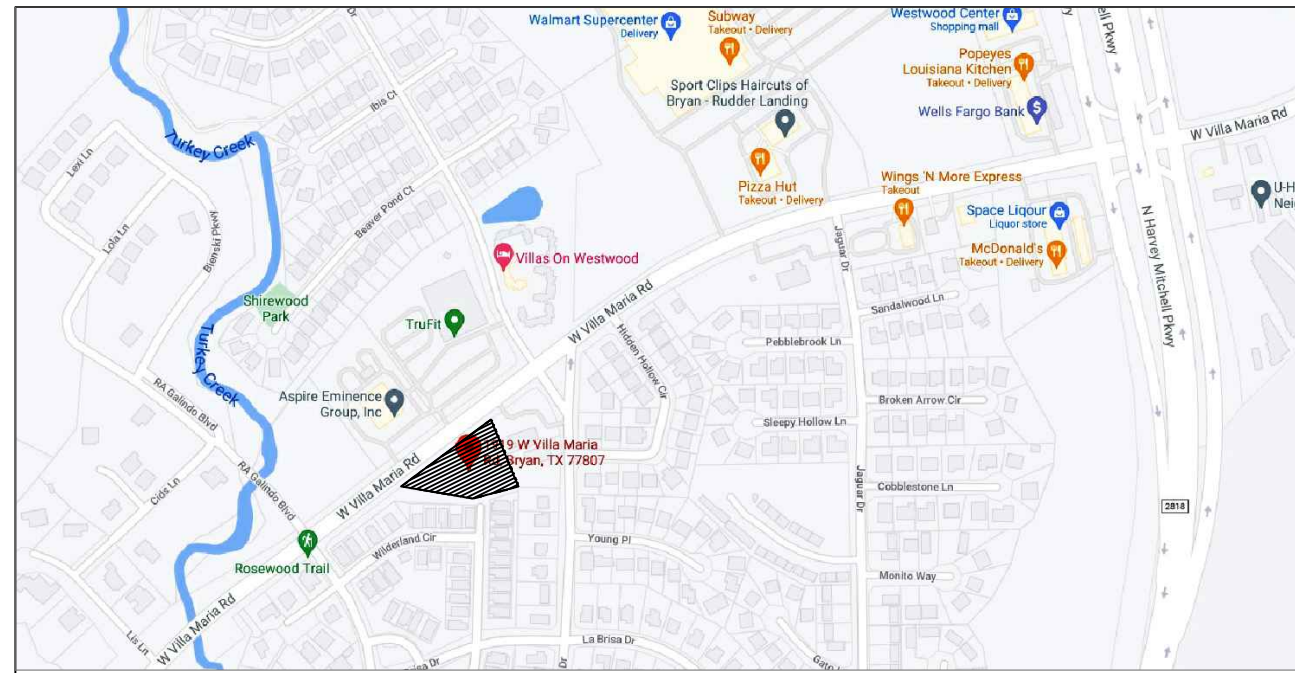


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1919 WEST VILLA MARIA ROAD
BRYAN, TX 77807
WALL TYPE, DOOR, WINDOW, FINISH SCHEDULE
DRAWN BY: BM DATE: 9-15-2021 SHEET: **A-601** Rev.0
CHECKED BY: RSK PROJ. NO.: VR151003.317.4



GENERAL NOTES: (FIRE)

A. GENERAL
 1. CURB LOCATED BETWEEN APPROVED FIRE LANE – TOW-AWAY-ZONE SIGN SHALL BE PAINTED RED OR A RED STRIPE SHALL BE PLACED ALONG THE PAVEMENT WHERE THERE IS NO CURB. CURB SHALL BE CONSPICUOUSLY AND LEGIBLY MARKED WITH THE WARNING "FIRE LANE – TOW-AWAY-ZONE" IN WHITE LETTERS AT LEAST 3 INCHES IN HEIGHT, AT INTERVALS NOT TO EXCEED 50 FEET.

LEGEND:

- INDICATES FIRE ACCESS ROAD
- INDICATES PROPOSED DRIVEWAY CONC.
- FIRE EXTINGUISHER TO MEET IFC 2015, CH.23-SEC.2305.5
- INDICATES FIRE HYDRANT LOCATION

NOTE:

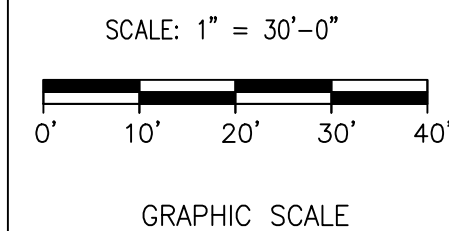
1. CONTRACTOR SHALL PROVIDE BUILDING ADDRESS VISIBLE FROM FIRE DEPARTMENT ACCESS ROAD.
2. FUEL DISPENSING FACILITY SHALL MEET THE IFC 2015 CH.23. FUEL DISPENSING, TANK, CANOPY TO BE PERMITTED SEPARATELY BY OTHERS.
3. FOR INFORMATION NOT SHOWN RE: SITE SURVEY C1.0.
4. FUEL TANKS, PUMPS AND CANOPY TO BE PERMITTED SEPARATELY.
5. FUEL DISTRIBUTION SYSTEM PLANS SHALL MEET THE FOLLOWING REQUIREMENTS.
 - a. PROVIDE IMPACT PROTECTION FOR FUEL PUMP DISPENSING EQUIPMENT TO MEET IFC 2015, CHAPTER 23, SECTION 2306.7.3 .
 - b. PROVIDE EMERGENCY DISCONNECT FOR FUEL PUMP SHUT OFF TO MEET IFC 2015, CHAPTER 23, SECTION 2303.2 .
 - c. PROVIDE FIRE EXTINGUISHER PLACEMENT FOR FUEL ISLAND AND REFILL AT TANK TO MEET IFC 2015, CHAPTER 23, SECTION 2303.5.
 - d. IDENTIFY ON PLANS THE FUEL TANK VENT LOCATION.
 - e. PROVIDE NOTE ON PLANS THE FUEL DISPENSING FACILITY WILL MEET THE IFC 2015 CHAPTER 23 .
6. SCOPE OF WORK IN THESE PLANS COVERS MERCANTILE BUILDING .
7. EMERGENCY RESPONDER RADIO COVERAGE SHALL BE PROVIDE PER SECTION 915, 2015 IBC BUILDINGS STRUCTURES SHALL CMPLY WITH ALL APPLICABLE CODE PROVISIONS OF ERRC PROVISIONS ON SECTION 510 IPC 2015.

OWNER INFORMATIONS:

NAME: FRANK RAJAN
 MAILING ADDRESS: 2001 S. COLLEGE AVE.
 CITY: BRYAN STATE: TX. ZIP CODE: 77801
 PHONE NUMBER: 979-229-3475
 E-MAIL ADDRESS: FRANKARAJAN@YAHOO.COM

NOTE:

- 1- EMERGENCY PROCEDURE SIGN WILL BE PLACED BY EMERGENCY DISCONNECT SWITCH AND SHALL READ:
 IN CASE OF FIRE, SPILL, OR RELEASE USE EMERGENCY PUMP SHUTOFF REPORT THE ACCIDENT ! FIRE DEPARTMENT TELEPHONE NO. 9-1-1
- 2- FIRE EXTINGUISHERS WITH A RATING OF 2-A:20-B-C SHALL BE REQUIRED AND INSTALLED IN A MANNER TO PROVIDE ONE WITHIN 75 FT. OF EACH MOTOR FUEL DISPENSING PUMP.
- 3- WARNING SIGNS IN ACCORDANCE WITH IFC 2205.6 SHALL BE POSTED AT PUMPS.
- 4- STATE LICENSED FIRE PROTECTION CONTRACTORS SHALL SUBMIT AS-BUILT PLANS AND INSTALLATION PAPERWORK DIRECTLY TO MCFMO AT THE END OF CONSTRUCTION BEFORE THE FINAL INSPECTION.
- 5- FIRE LANE MARKINGS WILL BE REVIEWED DURING FINAL INSPECTION.
- 6- PRIOR TO REQUESTING A FINAL INSPECTION, YOU MUST SUBMIT ANY FIRE PROTECTION CHECKLISTS TO OUR OFFICE. THESE CHECKLISTS ARE FOUND ON OUR WEBSITE
- 7- UPON COMPLETION OF ALL WORK, A REQUEST FOR FINAL INSPECTION FORM MUST BE SUBMITTED TO THE FIRE MARSHALS OFFICE. THIS PROJECT MAY NOT BE OCCUPIED UNTIL A FINAL INSPECTION HAS BEEN PERFORMED AND A CERTIFICATE OF COMPLIANCE HAS BEEN ISSUED
- 8- FIRE RATED ASSEMBLIES - ALL PENETRATIONS SHALL BE SEALED . ALL FIRE WALLS SHALL HAVE SIGNS OR STENCILING PERMANENTLY INSTALLED ABOVE ANY DECORATIVE CEILING AND /OR IN CONCEALED SPACES. THE LETTERING SHALL BE 2 INCHES IN HEIGHT AND SPACED EVERY 12 FEET. THE FOLLOWING WORDING IS REQUIRED, "(1) HOUR FIRE AND SMOKE WALL-PROTECT ALL PENETRATIONS"
- 9- ALL BULK CO2 TANK SHALL BE PROVIDE WITH MONITOR AND NOTIFICATION DEVICE PER IFC 2015 5303.16.10 .
- 10- ALL PROJECTS SHALL SUBMIT AN EMERGENCY RESPONSE INFORMATION FORM.

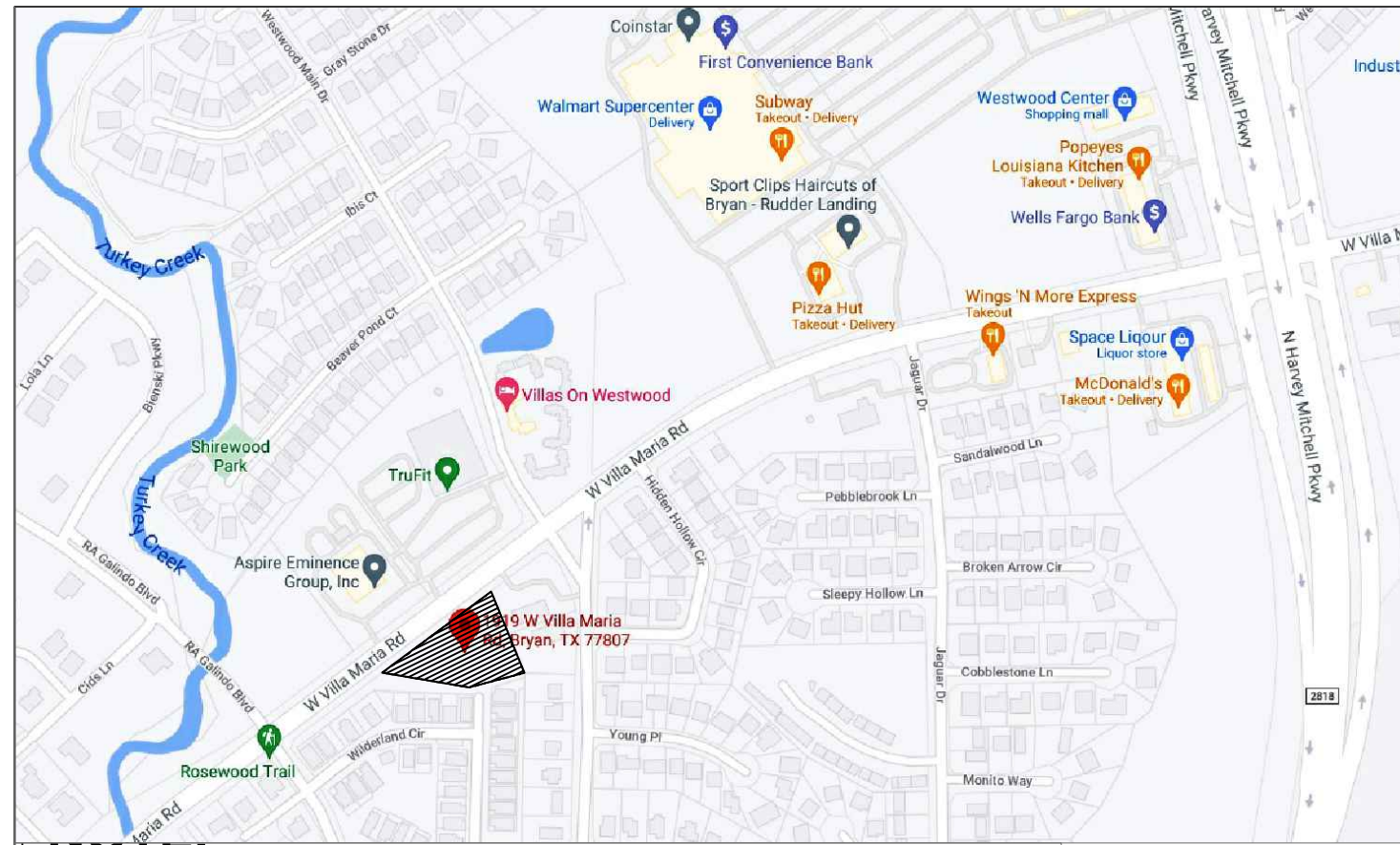


DATE: 12/14/2022

ISSUE HISTORY		REVISIONS	
DATE	ISSUED FOR	DESCRIPTION	
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RSK ENGINEERING
 ENGINEERS, CONSTRUCTION MANAGERS, PLANNERS
 11302 TANNER RD. TEL: (281) 580-4585
 HOUSTON, TEXAS 77041 FAX: (281) 580-4399
 FIRM # F-11211

VILLA MARIA GAS STATION
 1919 WEST VILLA MARIA ROAD
 BRYAN, TX 77807
FIRE ACCESS LANE PLAN
 DRAWN BY: BM DATE: 12-6-2021 SHEET:
 CHECKED BY: RSK PROJ. NO.: VR151003.317.4 **AS-101** Rev.0



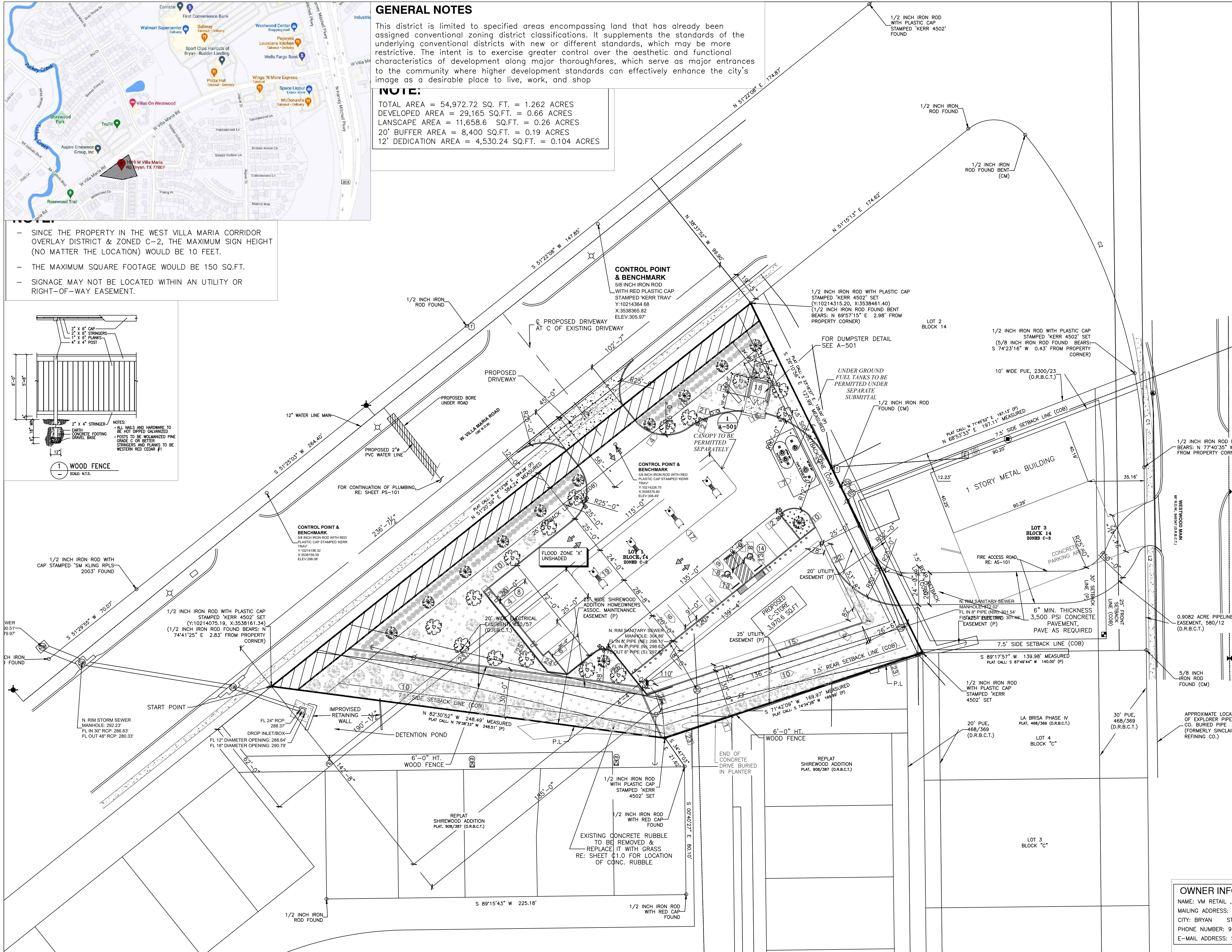
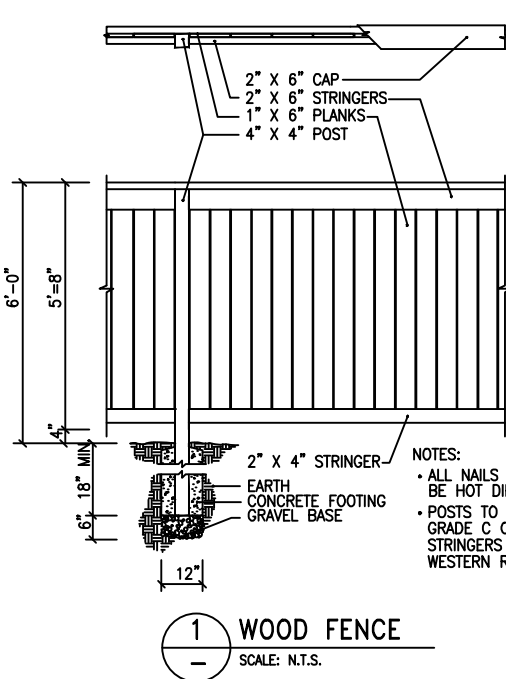
GENERAL NOTES

This district is limited to specified areas encompassing land that has already been assigned conventional zoning district classifications. It supplements the standards of the underlying conventional districts with new or different standards, which may be more restrictive. The intent is to exercise greater control over the aesthetic and functional characteristics of development along major thoroughfares, which serve as major entrances to the community where higher development standards can effectively enhance the city's image as a desirable place to live, work, and shop

NOTE:

TOTAL AREA = 54,972.72 SQ. FT. = 1.262 ACRES
 DEVELOPED AREA = 29,165 SQ.FT. = 0.66 ACRES
 LANDSCAPE AREA = 11,658.6 SQ.FT. = 0.26 ACRES
 20' BUFFER AREA = 8,400 SQ.FT. = 0.19 ACRES
 12' DEDICATION AREA = 4,530.24 SQ.FT. = 0.104 ACRES

- SINCE THE PROPERTY IN THE WEST VILLA MARIA CORRIDOR OVERLAY DISTRICT & ZONED C-2, THE MAXIMUM SIGN HEIGHT (NO MATTER THE LOCATION) WOULD BE 10 FEET.
- THE MAXIMUM SQUARE FOOTAGE WOULD BE 150 SQ.FT.
- SIGNAGE MAY NOT BE LOCATED WITHIN AN UTILITY OR RIGHT-OF-WAY EASEMENT.



- ### KEYED NOTES
- PROPERTY LINE
 - 25' STEEL LIGHT POLE (REFER TO ELECTRICAL)
 - NEW PROPOSED CONCRETE DRIVEWAY
 - 6" CONCRETE CURB
 - NEW CONCRETE PAVEMENT 6" THICK 3500 PSI (REFER TO CIVIL PLANS)
 - REGULAR PARKING SPACES 9'-0" X 19'-0" TYP. (U.N.O.)
 - UNDERGROUND FUEL TANK 8" THICK PAVING (VERIFY LOCATION WITH OWNER)
 - H/C SIGNAGE GRAPHICS RE: C-503
 - H/C PARKING SPACE (RE: SHEET A-003)
 - LANDSCAPING
 - RAMP 1:12 SLOPE
 - PAVEMENT SIGNAGE SEE C-503
 - 6" CURB/WHEEL STOP
 - PYLON SIGN, THE MAXIMUM SIGN HEIGHT 10' WITH 150 SF MAX. FOOTAGE (TO BE APPROVED BY OWNER)
 - CONCRETE SIDE WALK (RE: CIVIL PLANS)
 - 8" THICKNESS PAVEMENT
 - CANOPY (BY OTHERS)
 - NEW TRASH DUMPSTER ENCLOSURE AS SCREEN WITH THICKEN SLAB TO 8" RE: A-501. TO MEET CITY OF BRYAN REQUIREMENTS
 - GAS PUMP (BY OTHERS)
 - 6" BOLLARDS
 - AIR AND WATER
 - 12" CONCRETE CURB
 - 6'-0" HT WOOD FENCE
 - ELECTICAL CHARGER STATION
 - RETAINING WALL, SEE DETAIL (6) SHEET S3.0

- ### GENERAL NOTES
- #### PARKING NOTES:
- CONTRACTOR TO PAINT STRIPS, ARROWS AND ETC AS SPECIFIED AND AS SHOWN ON THE PLANS.
 - PROVIDE 4" WIDE YELLOW PARKING STRIPS.
 - FOR FIRE LANES MARKING RE: AS-101

- ### LEGEND
- HYD - INDICATES FIRE HYDRANT LOCATION
 - - INDICATES PROPOSED DRIVEWAY CONC.
 - - GRASS/ LANDSCAPE BED SOD.
 - 1 1/2" LIVE OAK, SHADE TREE 6' HT. MIN.
 - 2" PARKING TREES, SHADE TREES 6' HT. MIN.
 - 1 1/2" LAGERSTROEMIA/ UNSHADED TREES 6' HT. MIN.
 - TREES MATURE HT. 30 FT. .
 - 2 GAL. SHRUBS/ INDIAN HAWTHORN MAX 36"HT NOT LESS THAN 18"
 - # - NUMBER OF PARKING SPACES
 - - HANDICAP PARKING SPACE
 - - PROPERTY LINE
 - - BUILDING LINE
 - - LIGHT POLE . RE: ELECTRICAL SITE PLAN
 - - INDICATES FOR (7'-0") CMU FENCE

PARKING ANALYSIS

OCCUPANCY TYPE	AREA (S.F. OF GFA)	REQUIRED RETAIL PARKING	NUMBER OF CAR PARKING REQUIRED
M	3,970.6	5/1,000 GSF	20
TOTAL REQUIRED PARKING			20
NUMBER OF PARKING PROVIDED AT PUMPS			8
NUMBER OF PARKING PROVIDED (INCLUDING 2 H/C)			22
TOTAL NUMBER OF PARKING (INCLUDING 2 H/C) & PARKING AT PUMPS.			30

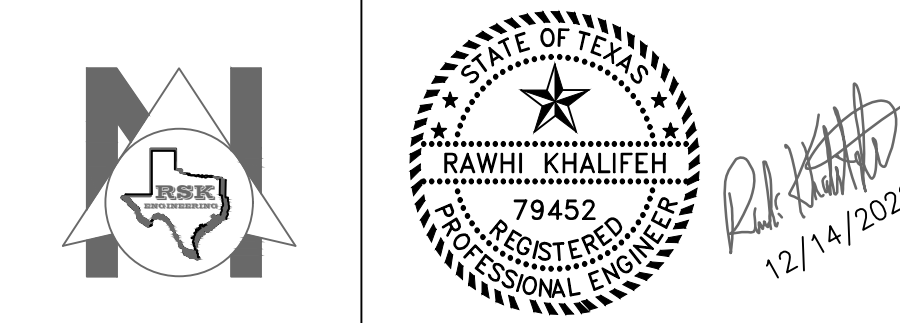
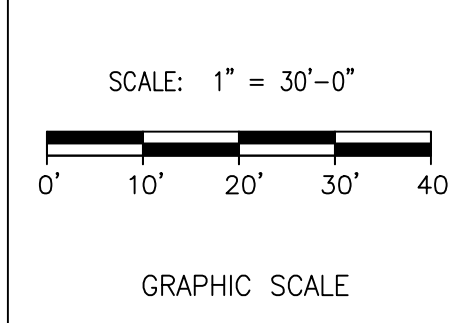
LANDSCAPING

SYMBOL	SIZE	OFFICIAL NAME	#	SF VALUE	TOTAL
🌳	1.5"-3.0" CALIPER	LIVE OAK QUERCUS VIRGINIANA CANOPY TREE	11	200	2,061.4
🌳	1.5"-3.0" CALIPER	DYNAMITE CREPE MYRTLE LAGERSTROEMIA INDICA (DYNAMITE) NON-CANOPY TREE	14	150	2,061.4
🌳	2-5 GALLON	KNOCK-OUT ROSE (ROSE RADRAZZ) SHRUB	200	10	2000
🌳	15 GALLON	INDIAN HAWTHORN (RHAPHIOLEPIS INDICA) SHRUB	130	15	1,900
🌿	COVER (15% MAX)	BERMUDA GRASS	500 SF / 100	100	223

- ### LANDSCAPE REQUIREMENTS:
- 15% OF DEVELOPED AREA 1.262 ACRES (54,972.72 SQ FT) = 8,245.9 SF LANDSCAPING
 - NOT LESS THAN 50% OF REQUIRED AREA SHALL BE TREES—4,122.9 SF REQ'D; 4,701 PROVIDED
 - NOT LESS THAN 50% OF TREE PLANTED SHALL BE CANOPY; 2,061.4 SF REQ'D; 2,640 PROVIDED
 - ALL PARKING ISLANDS MUST HAVE A CANOPY TREE.
 - 30' REDUCED BUFFER AREA TO BE 20 FT. X 420 LN=8,400 SQ.FT./200 SQ.FT= 42 CANOPY TREES.
- TOTAL AREA REQUIRED: 8,245.9 SF
 LANDSCAPED AREA PROVIDED: 11,658.6 SF
 ** AUTOMATIC IRRIGATION IS REQUIRED FOR THIS PROJECT **

OWNER INFORMATIONS:

NAME: VM RETAIL, LLC
 MAILING ADDRESS: 2001 S. COLLEGE AVE.
 CITY: BRYAN STATE: TX. ZIP CODE: 77801
 PHONE NUMBER: 979-587-9992
 E-MAIL ADDRESS: S.RAJAN@R4CAPHOLDINGS.COM



ISSUE HISTORY		REVISIONS	
DATE	ISSUED FOR	DESCRIPTION	
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RSK ENGINEERING
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 11302 TANNER RD. TEL: (281) 580-4585
 HOUSTON, TEXAS 77041 FAX: (281) 580-4399
 FIRM # F-11211

VILLA MARIA GAS STATION
 1919 WEST VILLA MARIA ROAD
 BRYAN, TX 77807
PARKING SITE PLAN AND LANDSCAPE
 DRAWN BY: BM DATE: 12-6-2021 SHEET:
 CHECKED BY: RSK PROJ. NO.: VR151003.317.4 **AS-102** Rev.0

VILLA MARIA GAS STATION

1919 WEST VILLA MARIA ROAD
BRYAN , TX 77807

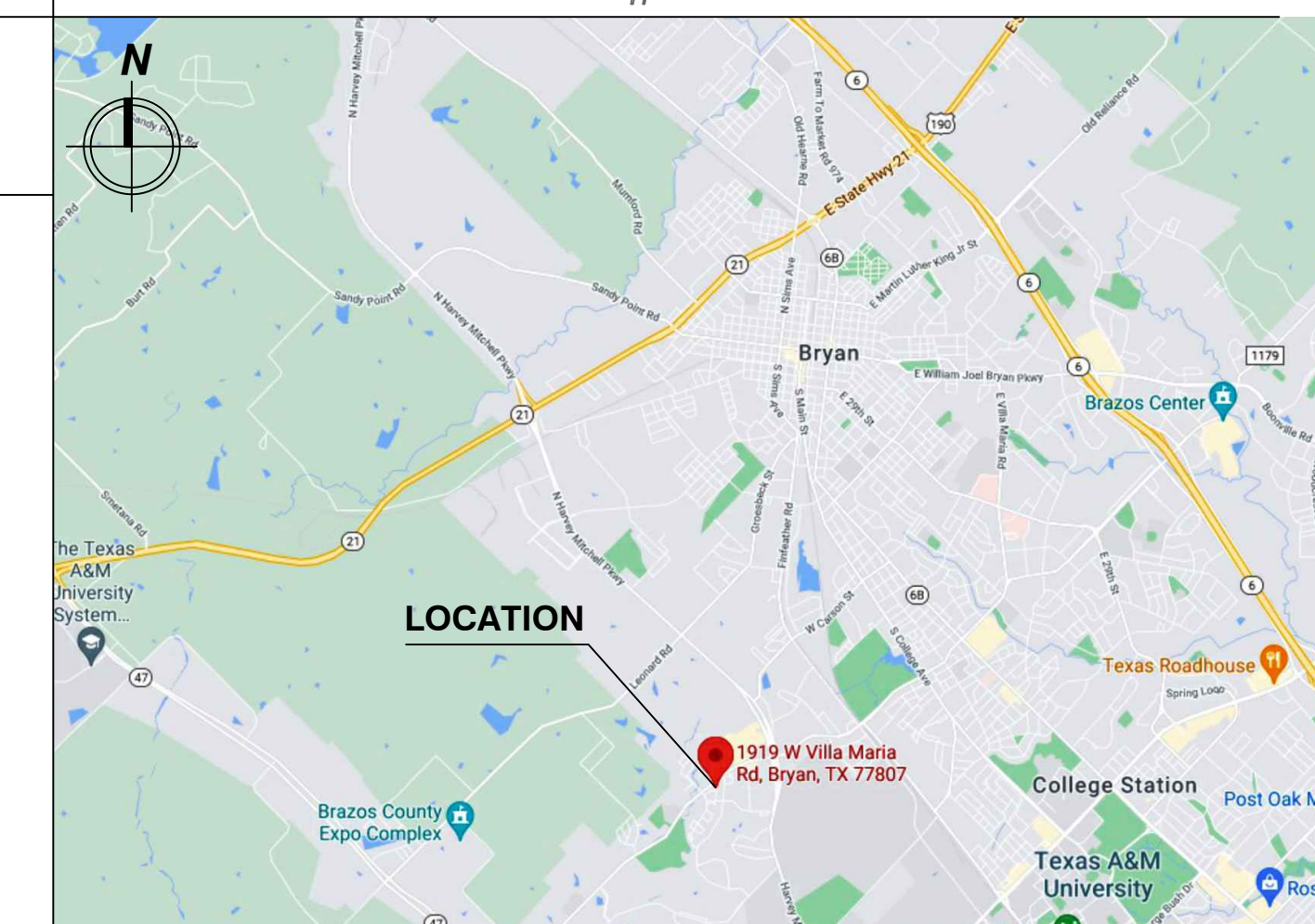


KEY MAP # 48027C 0295E

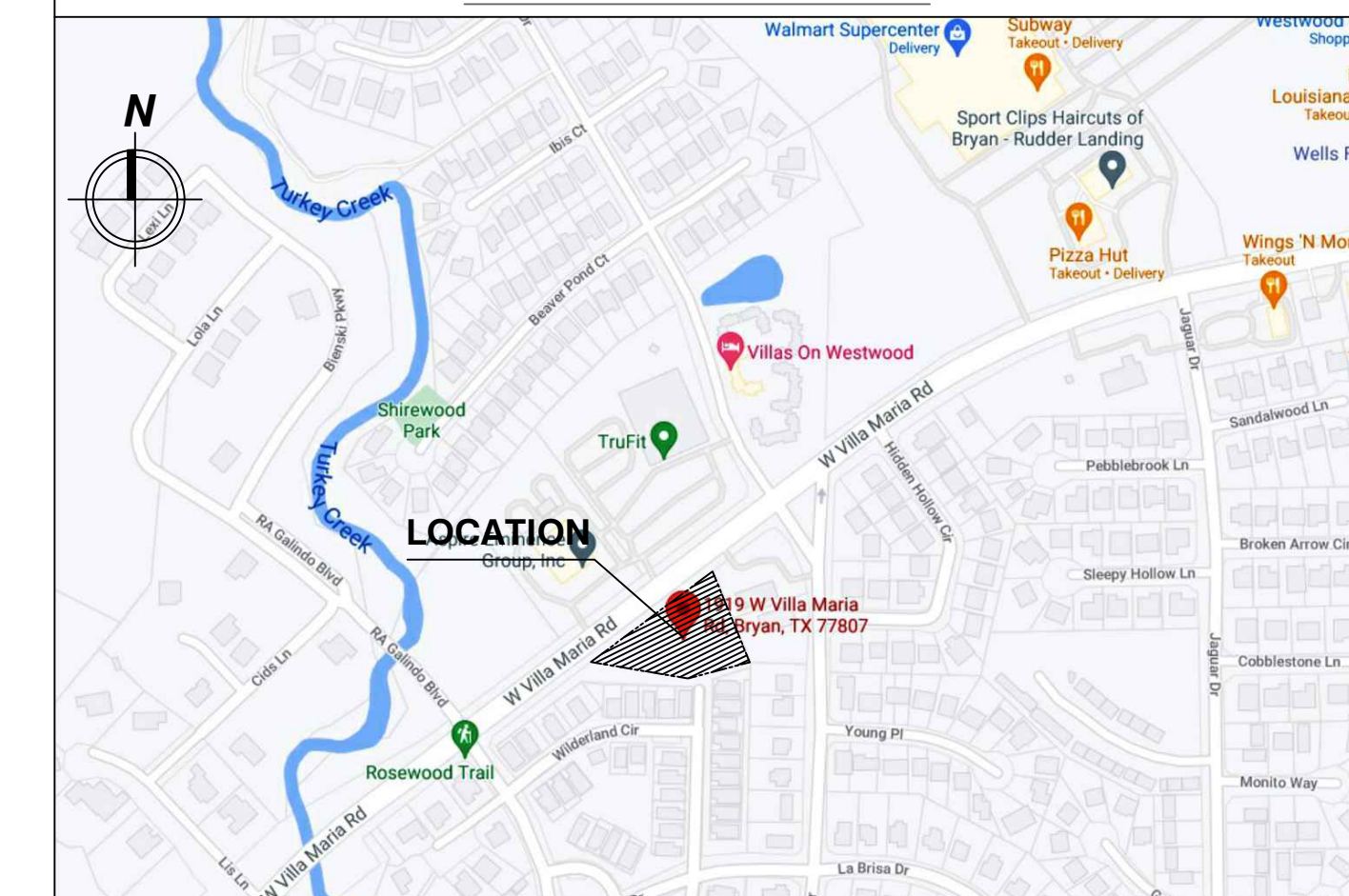
INDEX TO DRAWINGS

CIVIL

- C0.0- COVER SHEET
- C1.0- TOPOGRAPHIC SURVEY
- C1.1- DRIVEWAY TRAFFIC CONTROL PLAN
- C2.0- PAVING & DRAINAGE SITE PLAN
- C2.1- DRAINAGE AREA MAP
- C3.0- STORM WATER POLLUTION PROTECTION PLAN
- C3.1- STORM WATER QUALITY POLLUTION PREVENTION DETAILS
- C4.0- DRAINAGE SECTIONS
- C5.0- SITE DETAILS AND DETENTION CALCULATION
- C6.0- SITE DETAILS
- C7.0- SITE DETAILS
- C8.0- STANDARD MANHOLE DETAILS



VICINITY MAP



ISSUE HISTORY		REVISIONS
DATE	ISSUED FOR	DESCRIPTION
5-16-22	ISSUE FOR PERMITTING	CONSTRUCTION DRAWINGS
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RSK ENGINEERING
ENGINEERS, CONSTRUCTION MANAGERS, PLANNERS
11302 TANNER RD. HOUSTON, TEXAS 77041
TEL: (281) 580-4585
FAX: (281) 580-4399
FIRM # F-11211

VILLA MARIA GAS STATION
1919 WEST VILLA MARIA ROAD
BRYAN , TX 77807
COVER SHEET, INDEX & VICINITY MAPS
DRAWN BY: BM DATE: 9-15-2021 SHEET:
CHECKED BY: RSK PROJ. NO.: VR151003.317.4 **C-00** Rev.0

NONE
GRAPHIC SCALE

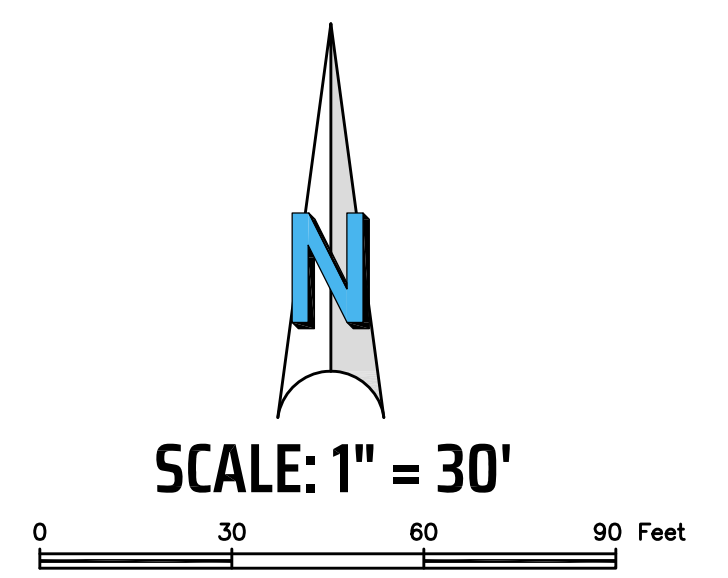
LAND TITLE SURVEY PLAT
OF
LOTS 1 & 3, BLOCK 11
SHIREWOOD ADDITION PHASE II
VOLUME 583, PAGE 181 (D.R.B.C.T.)
ZENO PHILLIPS LEAGUE, A-45
BRYAN, BRAZOS COUNTY, TEXAS



SCALE: 1" = 30 FEET
SURVEY DATE: 03-02-2021 | PLAT DATE: 03-12-2021
JOB NUMBER: 21-177 | CAD NAME: 21-177
POINT FILE: 21-177-ALL
DRAWN BY: WJB CHECKED BY: BNK
PREPARED BY: KERR SURVEYING, LLC
TBPELS FIRM#10019500
409 N. TEXAS AVENUE, BRYAN, TEXAS 77803
PHONE: (979) 268-3195
SURVEYS@KERRSURVEYING.NET | KERRLANDSURVEYING.COM

"When one person stands to gain over another, the facts must be uncovered"

LEGEND:		
(D.R.B.C.T.) = DEED RECORDS OF BRAZOS COUNTY, TEXAS	WATER VALVE	AERIAL ELECTRIC LINES
(D.R.B.C.T.) = OFFICIAL RECORDS OF BRAZOS COUNTY, TEXAS	WATER METER	WOOD FENCE
(D.P.R.B.C.T.) = OFFICIAL PUBLIC RECORDS OF BRAZOS COUNTY, TEXAS	FIRE HYDRANT	APPROXIMATE LOCATION OF 8" SANITARY SEWER LINE
123/456 = VOLUME AND PAGE FROM PUBLIC COUNTY RECORDS	SANITARY SEWER MANHOLE	APPROXIMATE LOCATION OF 8" WATER LINE
N/F = NOW OR FORMERLY	CLEAN OUT	APPROXIMATE LOCATION OF 12" WATER LINE
(P) = PER PLAT, 583/181 (D.R.B.C.T.)	STORM SEWER MANHOLE	APPROXIMATE LOCATION OF BURIED ATMOS GAS LINE AS FLAGGED ON THE GROUND
	STREET SIGN	CONCRETE
	UTILITY POLE	
	LIGHT POLE/STANDARD	
	GUY WIRE	
	A/C UNIT	
	GAS METER	
	PIPE LINE MARKER	
	ELECTRIC SERVICE	
	ELECTRIC BOX	
	TELEPHONE PEDESTAL	
	FIBER OPTIC MARKER	



SURVEYOR'S CERTIFICATE:
I, BRAD KERR, R.P.L.S. NO. 4502, DO HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE THIS PLAT IS A TRUE REPRESENTATION OF A CATEGORY 1A (LAND TITLE SURVEY), CONDITION II SURVEY (ACCORDING TO THE TSPS MANUAL OF PRACTICE FOR LAND SURVEYING IN THE STATE OF TEXAS) AS MADE ON THE GROUND UNDER MY SUPERVISION AND THAT THERE ARE NO VISIBLE ENCROACHMENTS ON THIS TRACT EXCEPT AS SHOWN HEREON. THE ENTIRETY OF THESE TRACTS LIE WITHIN FLOOD ZONE 'X' UNSHADED AND DO NOT LIE WITHIN A DESIGNATED 100 YEAR FLOOD PLAIN ACCORDING TO THE F.I.R.M. MAPS, PANEL NO. 48041C0195E, REVISED DATE: 05-16-2012.

FEMA INFORMATION

BRAD KERR
REGISTERED PROFESSIONAL
LAND SURVEYOR NO. 4502
REVISED 05-17-21: ADDITIONAL
TOPOGRAPHIC DATA

C1
R=339.96'
D=9°58'48"
ARC=59.22'
T=29.68'
CHORD=59.14'
BRG=S 05°42'17" E

L1
S 26°10'56" E 116.08' MEASURED
PLAT CALL: S 23°18'37" E 116.09' (P)

C2
R=339.96'
D=27°57'40"
ARC=165.91'
T=84.64'
CHORD=164.27'
BRG=S 24°40'31" E

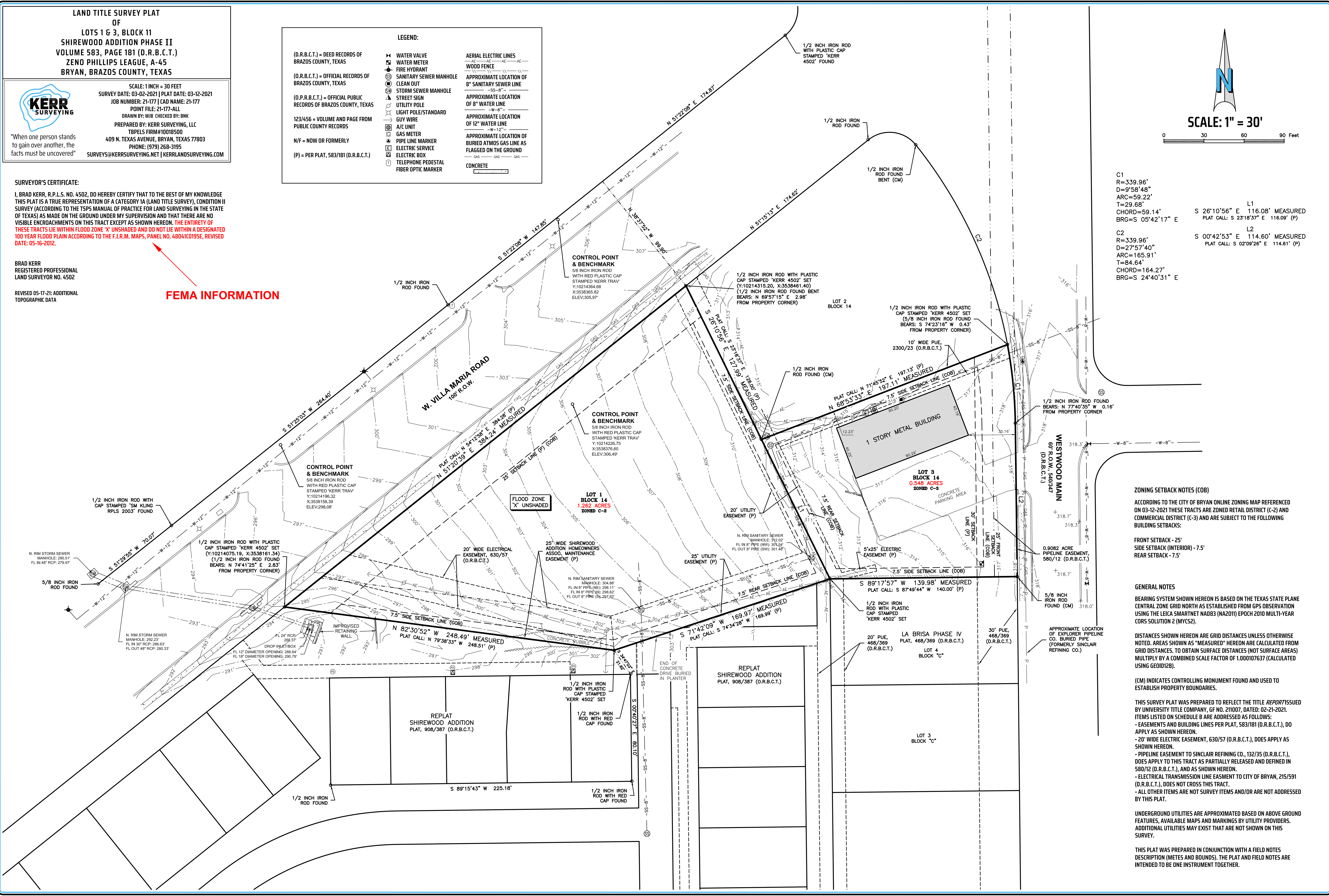
ZONING SETBACK NOTES (COB)
ACCORDING TO THE CITY OF BRYAN ONLINE ZONING MAP REFERENCED ON 03-12-2021 THESE TRACTS ARE ZONED RETAIL DISTRICT (C-2) AND COMMERCIAL DISTRICT (C-3) AND ARE SUBJECT TO THE FOLLOWING BUILDING SETBACKS:
FRONT SETBACK - 25'
SIDE SETBACK (INTERIOR) - 7.5'
REAR SETBACK - 7.5'

GENERAL NOTES
BEARING SYSTEM SHOWN HEREON IS BASED ON THE TEXAS STATE PLANE CENTRAL ZONE GRID NORTH AS ESTABLISHED FROM GPS OBSERVATION USING THE LEICA SMARTNET NAD83 (NA2011) EPOCH 2010 MULTI-YEAR CORES SOLUTION 2 (MYCS2).
DISTANCES SHOWN HEREON ARE GRID DISTANCES UNLESS OTHERWISE NOTED. AREAS SHOWN AS "MEASURED" HEREON ARE CALCULATED FROM GRID DISTANCES. TO OBTAIN SURFACE DISTANCES (NOT SURFACE AREAS) MULTIPLY BY A COMBINED SCALE FACTOR OF 1.00017637 (CALCULATED USING GEOID12B).
(CM) INDICATES CONTROLLING MONUMENT FOUND AND USED TO ESTABLISH PROPERTY BOUNDARIES.

THIS SURVEY PLAT WAS PREPARED TO REFLECT THE TITLE REPORT ISSUED BY UNIVERSITY TITLE COMPANY, GF NO. 211007, DATED: 02-21-2021. ITEMS LISTED ON SCHEDULE B ARE ADDRESSED AS FOLLOWS:
- EASEMENTS AND BUILDING LINES PER PLAT, 583/181 (D.R.B.C.T.), DO APPLY AS SHOWN HEREON.
- 20' WIDE ELECTRICAL EASEMENT, 630/57 (D.R.B.C.T.), DOES APPLY AS SHOWN HEREON.
- PIPELINE EASEMENT TO SINCLAIR REFINING CO., 132/35 (D.R.B.C.T.), DOES APPLY TO THIS TRACT AS PARTIALLY RELEASED AND DEFINED IN 580/12 (D.R.B.C.T.), AND AS SHOWN HEREON.
- ELECTRICAL TRANSMISSION LINE EASEMENT TO CITY OF BRYAN, 215/591 (D.R.B.C.T.), DOES NOT CROSS THIS TRACT.
- ALL OTHER ITEMS ARE NOT SURVEY ITEMS AND/OR ARE NOT ADDRESSED BY THIS PLAT.

UNDERGROUND UTILITIES ARE APPROXIMATED BASED ON ABOVE GROUND FEATURES, AVAILABLE MAPS AND MARKINGS BY UTILITY PROVIDERS. ADDITIONAL UTILITIES MAY EXIST THAT ARE NOT SHOWN ON THIS SURVEY.

THIS PLAT WAS PREPARED IN CONJUNCTION WITH A FIELD NOTES DESCRIPTION (METES AND BOUNDS). THE PLAT AND FIELD NOTES ARE INTENDED TO BE ONE INSTRUMENT TOGETHER.



LEGEND:

- CL XX.X' CENTER LINE ROAD ELEVATION
- TG XX.X' TOP OF GRADE
- TC XX.X' TOP OF CURB WAY
- FL XX.X' FLOW LINE ELEVATION
- XX.X' TOP OF CONCRETE ELEVATION
- BUILDING LINE
- SS STORM SEWER
- WASTEWATER
- WATER LINE
- P POWER LINE
- G GAS LINE
- T TELEPHONE LINE
- PROPERTY LINE
- GRADE BREAK (G.B.)
- SLOPE OF PAVEMENT
- NEW LIGHT POLE U.O.N.
- WASTEWATER MANHOLE
- STORM SEWER MANHOLE
- CLEAN OUT
- TYPE "A" INLET
- EXISTING GRADE ELEVATIONS

1/2 INCH IRON ROD WITH PLASTIC CAP STAMPED 'KERR 4502' SET (Y:10214315.20, X:3538461.46) (1/2 INCH IRON ROD FOUND BEARS: N 69°57'15" E 2.98' FROM PROPERTY CORNER)

- GENERAL NOTES:**
- A. GENERAL**
- GENERAL CONTRACTOR SHALL COORDINATE SITE UTILITIES WORK WITH PLUMBING DRAWINGS.
- B. PERMIT**
- CONTRACTOR TO OBTAIN ALL PERMITS REQUIRED BY REGULATION OF CITY OF BRYAN, TEXAS PRIOR TO STARTING CONSTRUCTION.
 - OWNER TO OBTAIN ALL PERMITS REQUIRED BY CITY OF BRYAN, TEXAS PRIOR TO STARTING CONSTRUCTION OF UTILITY AND/OR CULVERTS WITHIN CITY OF BRYAN ROAD RIGHT OF WAY.
 - CONTRACTOR MAY SUBSTITUTE PVC PIPE FOR HDPE PIPE IN ACCORDANCE WITH CODE REQUIREMENTS.
 - ANY FUTURE DEVELOPMENT WILL REQUIRE APPROVAL.
- C. STORM SEWER SYSTEM**
- STORM SEWER SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF BRYAN.
 - STORM SEWER PIPE SHALL BE HDPE, UNLESS SHOWN OTHERWISE. CONTRACTOR MAY SUBSTITUTE PVC SDR 35 PIPE FOR PVC PIPE IN ACCORDANCE WITH CODE REQUIREMENTS.
 - SET STORM SEWER MANHOLE RIMS TO MATCH FINISH GRADE.
 - STORM SEWER INLETS SHALL BE CITY APPROVED INLET.
 - CONCRETE PIPE SHALL BE BEDDED WITH CEMENT STABILIZED SAND IN ACCORDANCE WITH CITY OF BRYAN.
 - PVC PIPE SHALL BE BEDDED WITH A MINIMUM OF ONE FOOT OF CEMENT STABILIZED SAND. CEMENT STABILIZED SAND SHALL BE LAID IN 6" LIFTS COMPOSED TO 95% STD. PROCTOR MAX. DRY DENSITY (ASTM D698).
 - EXISTING PAVEMENTS, CURBS, SIDEWALKS, AND DRIVEWAYS DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED TO THE CITY OF BRYAN STANDARDS.
 - CONDITION OF THE ROAD AND/OR RIGHT-OF-WAY, UPON COMPLETION OF JOB, SHALL BE AS GOOD AS OR BETTER THAN THE CONDITION PRIOR TO STARTING WORK.
 - ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION AND ANY DRAINAGE DITCH OR STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THE SATISFACTION OF THE OWNING AUTHORITY.

TOTAL PAVEMENT AREA	= 22854 SF
BUILDING AREA	= 3970.6 SF
SIDE WALK AREA	= 1706.1 SF
TOTAL IMPERVIOUS AREA	= 28530.7 SF
LANDSCAPE AREA	= 26442 SF
TOTAL AREA	= 54972.7 SF
INLETS & J.B	= 10 @ 64 CF = 640 CF
LENGTH OF 18"Ø HDPE PIPES	= 719 FT.
LENGTH OF 24"Ø RCP PIPES	= 34.2 FT.

PROPERTY DESCRIPTION:

LAND TITLE SURVEY PLAT OF LOTS 1 & 3, BLOCK 11 SHIREWOOD ADDITION PHASE II VOLUME 583, PAGE 181 (D.R.B.C.T.) ZENO PHILLIPS LEAGUE, A-45 BRYAN, BRAZOS COUNTY, TEXAS

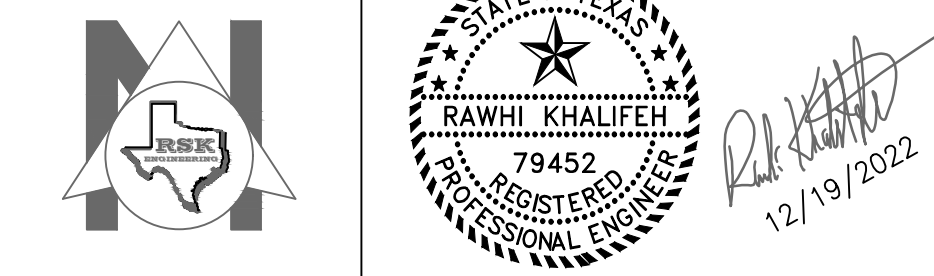
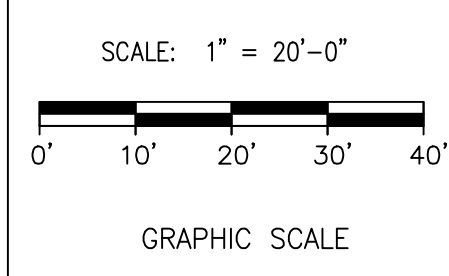
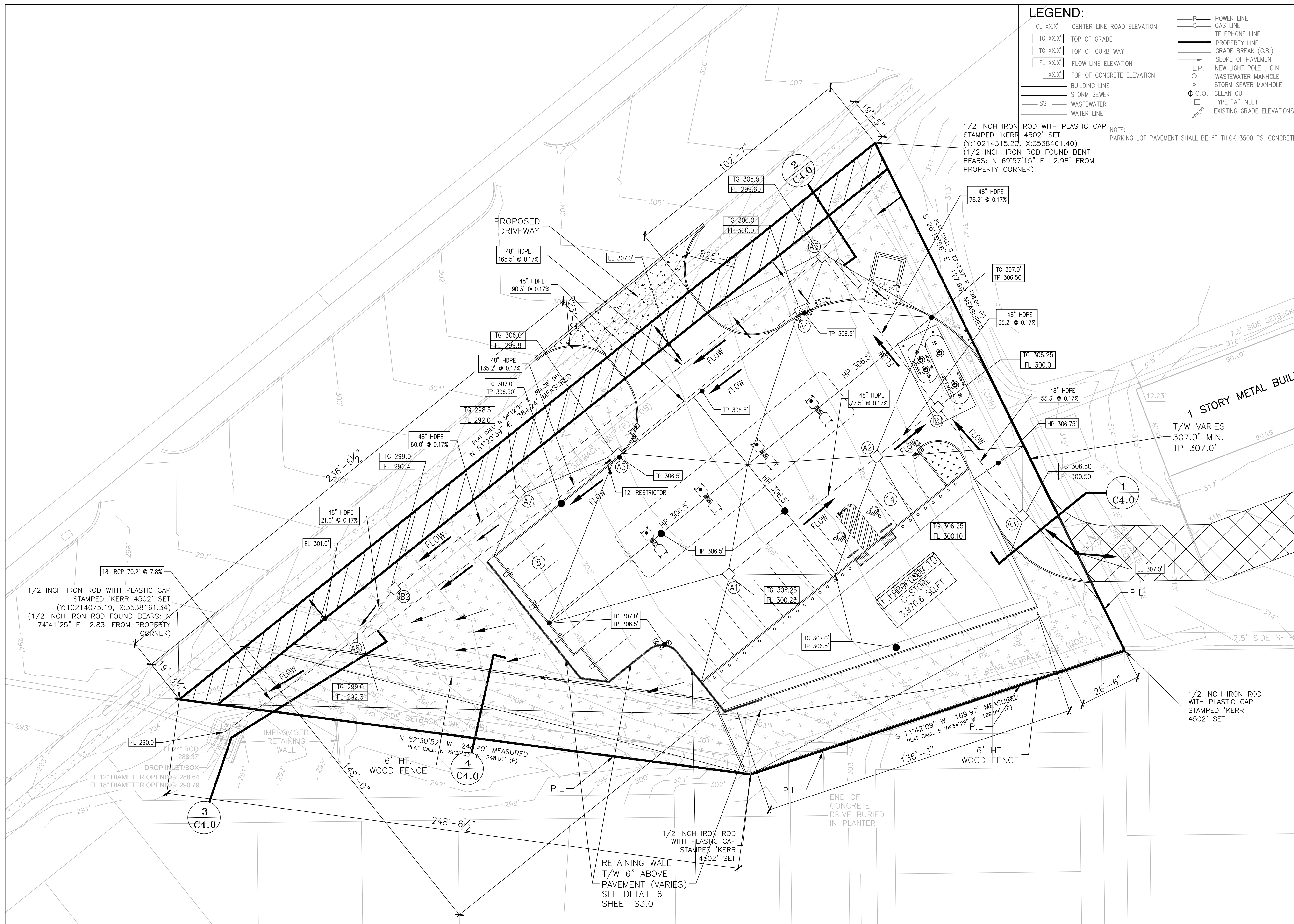
CONTROL POINT & BENCHMARK
 5/8 INCH IRON ROD WITH RED PLASTIC CAP STAMPED 'KERR TRAV' (Y:10214226.75, X:3538376.90, ELEV:306.49)

FLOOD PLAIN INFORMATION:

THIS PLAT IS A TRUE REPRESENTATION OF A CATEGORY 1A (LAND TITLE SURVEY), CONDITION II SURVEY (ACCORDING TO THE TSPS MANUAL OF PRACTICE FOR LAND SURVEYING IN THE STATE OF TEXAS) AS MADE ON THE GROUND UNDER MY SUPERVISION AND THAT THERE ARE NO VISIBLE ENCROACHMENTS ON THIS TRACT EXCEPT AS SHOWN HEREON. THE ENTIRETY OF THESE TRACTS LIE WITHIN FLOOD ZONE 'X' UNSHADED AND DO NOT LIE WITHIN A DESIGNATED 100 YEAR FLOOD PLAIN ACCORDING TO THE F.I.R.M. MAPS, PANEL NO. 48041C0195E, REVISED DATE: 05-16-2012.

VILLA MARIA GAS STATION
 1919 WEST VILLA MARIA ROAD
 BRYAN, TX 77807
PAVING AND DRAINAGE SITE PLAN

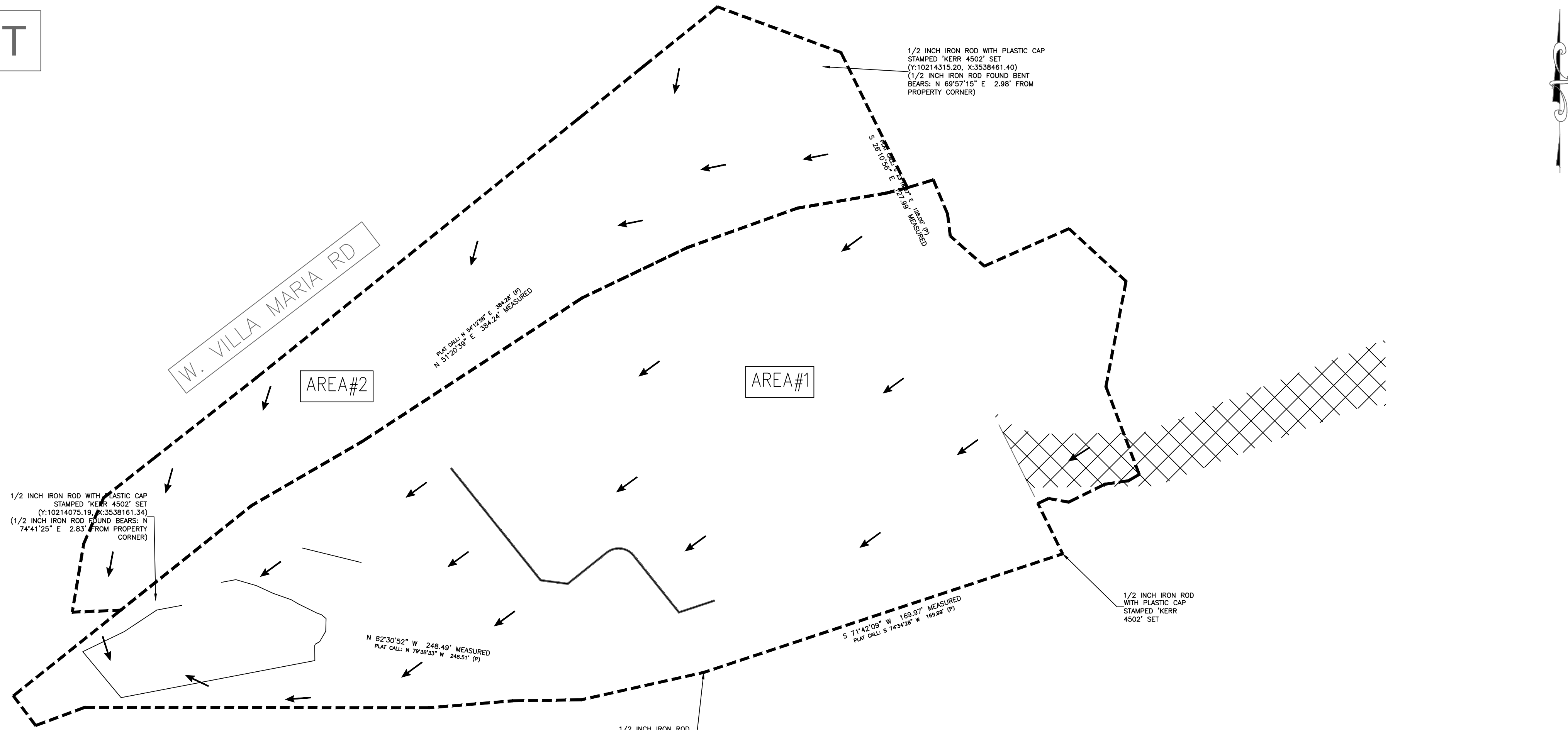
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 CHECKED BY: RSK PROJ. NO.: VR151003.317.4



ISSUE HISTORY		REVISIONS	
DATE	ISSUED FOR	DESCRIPTION	
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 11302 TANNER RD. TEL: (281) 580-4585
 HOUSTON, TEXAS 77041 FAX: (281) 580-4399
 FIRM # F-11211

PRE-DEVELOPMENT



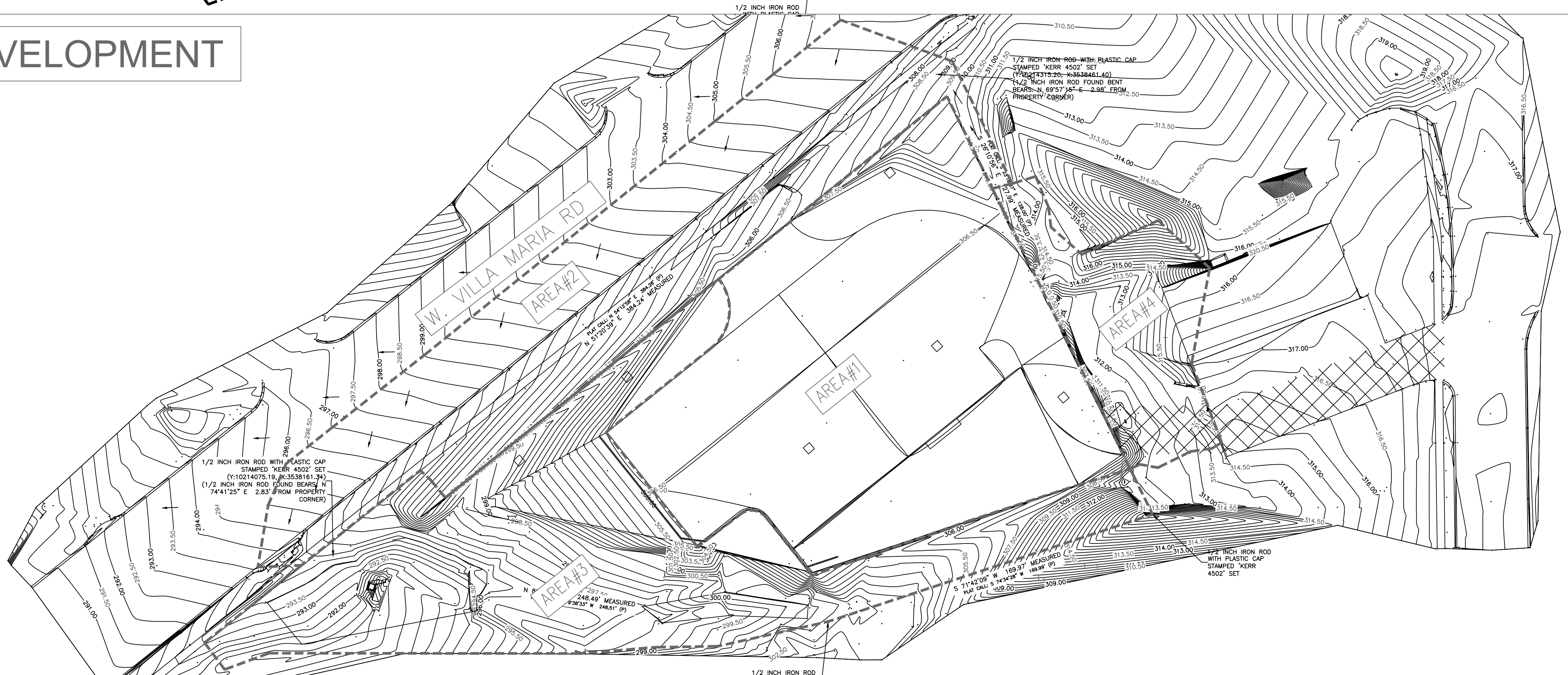
LEGEND

- DRAINAGE BOUNDARY
- FLOW DIRECTION
- CONTOUR
- INLET
- STORM SEWER LINE
- DRAINAGE AREA I.D.

PRE DEVELOPMENT DRAINAGE AREA SUMMARY

I.D#	AREA (SF)	AREA (AC)
AREA #1	66,724.6	1.532
AREA #2	25,833.5	0.593
TOTAL AREA (AC)		2.125

POST-DEVELOPMENT

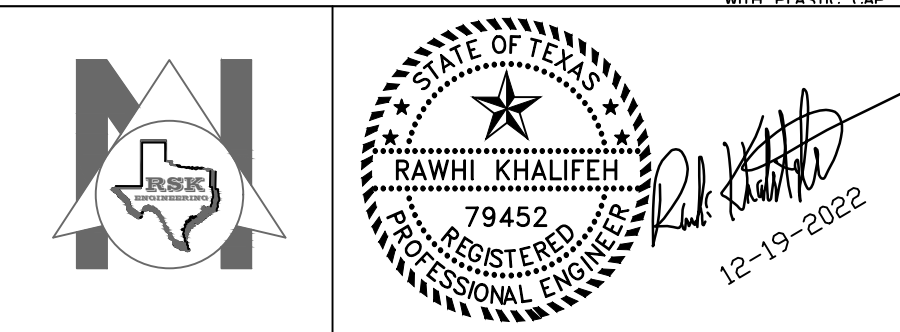
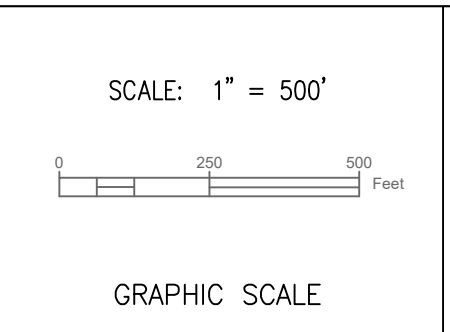


POST DEVELOPMENT DRAINAGE AREA SUMMARY

I.D#	AREA (SF)	AREA (AC)
AREA #1	32,895.7	0.755
AREA #2	23,947.4	0.550
AREA #3	27,857.0	0.640
AREA #4	7,858.9	0.180
TOTAL AREA (AC)		2.125

OWNER NAME:
ADDRESS:
PHONE #:
EMAIL:

APPLICANT NAME: RSK ENGINEERING
ADDRESS: 11302 TANNER RD
HOUSTON, TX 77041
PHONE #: 281-580-4585
EMAIL: RSKENGINEERING@GMAIL.COM



ISSUE HISTORY		REVISIONS	
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-	-	-	-

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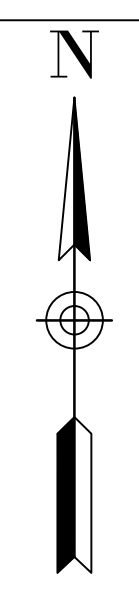
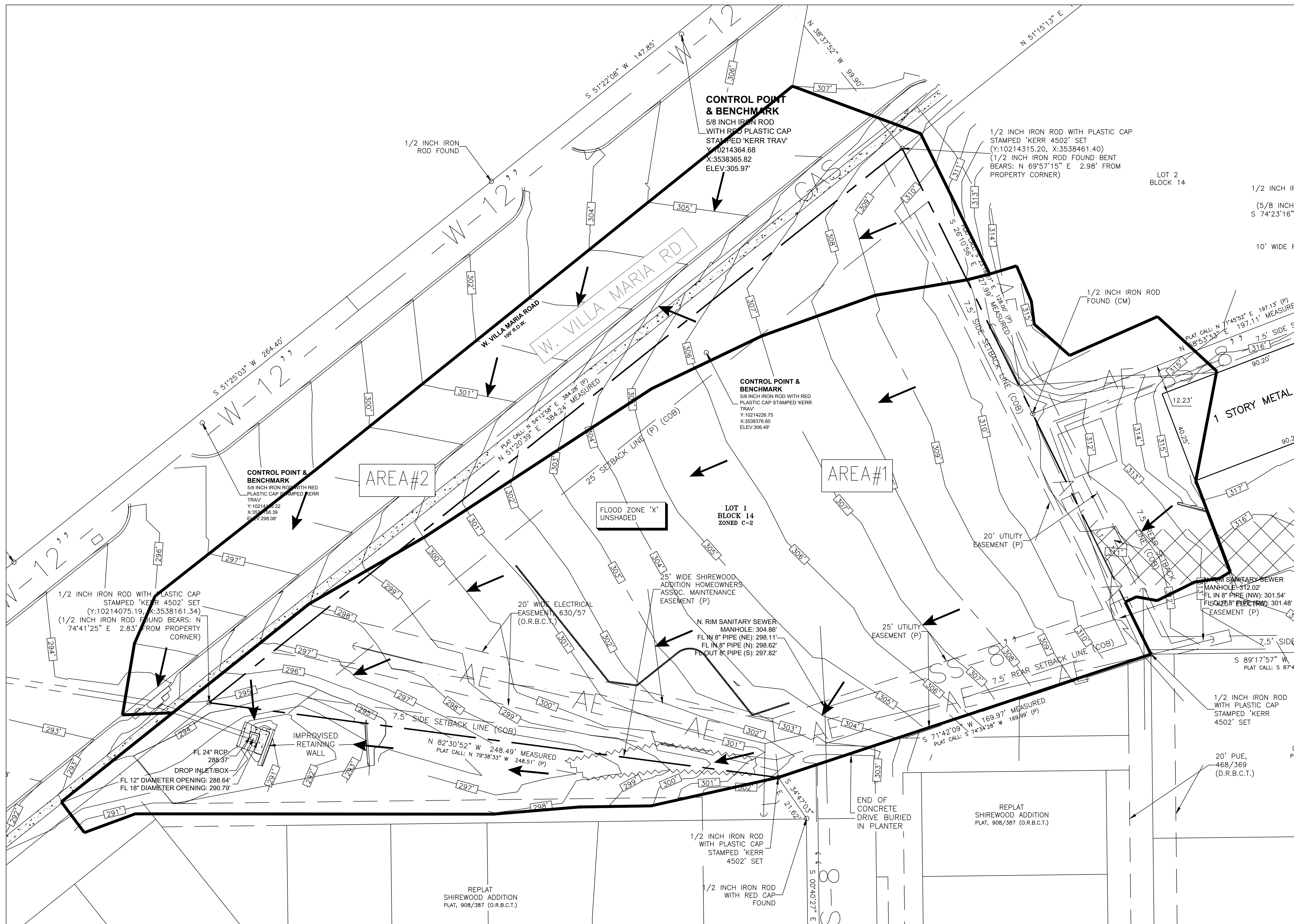
VILLA MARIA GAS STATION
1919 WEST VILLA MARIA ROAD
BRYAN, TX 77807

DRAINAGE AREA MAP

DRAWN BY: BM
CHECKED BY: RSK

DATE: 04-26-2022
PROJ. NO.: VR15003.317.4

SHEET:
C2.1 Rev.0



LEGEND

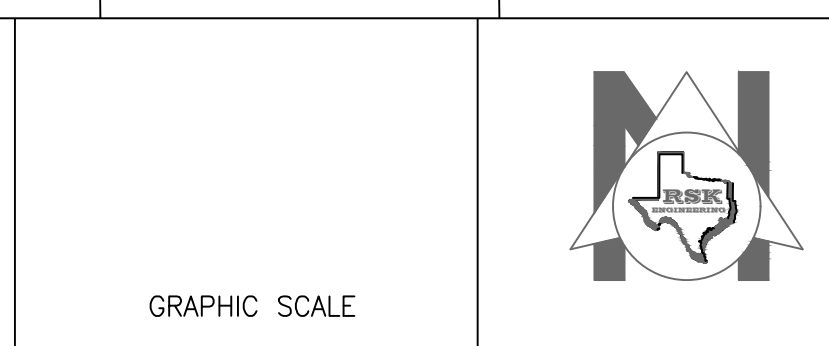
- DRAINAGE BOUNDARY
- FLOW DIRECTION
- CONTOUR
- INLET
- STORM SEWER LINE
- DRAINAGE AREA I.D.

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OWNER NAME:
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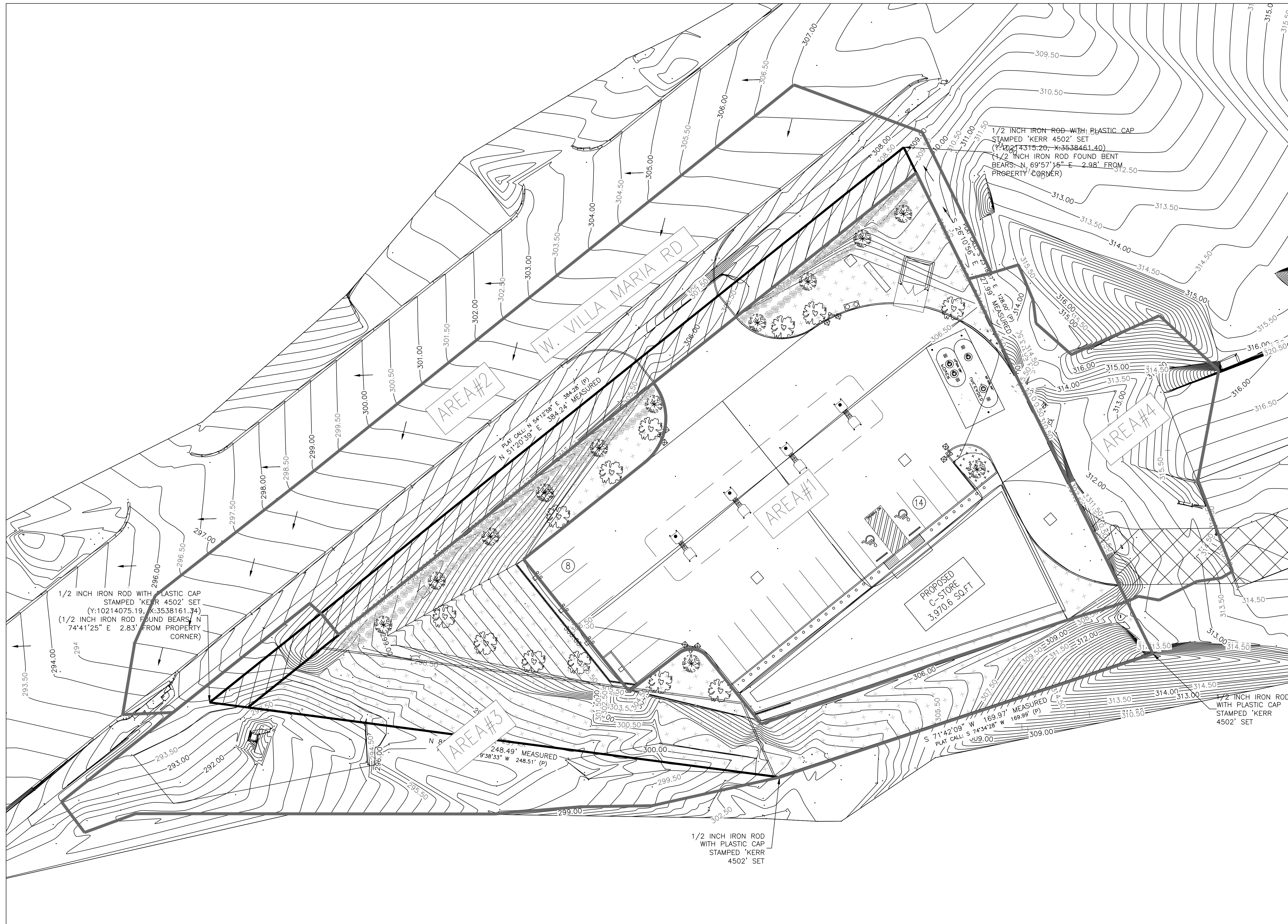
APPLICANT NAME: RSK ENGINEERING
ADDRESS: 11302 TANNER RD
HOUSTON, TX 77041
PHONE #: 281-580-4585
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ISSUE HISTORY		REVISIONS	
DATE	ISSUED FOR	DESCRIPTION	
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VILLA MARIA GAS STATION
1919 WEST VILLA MARIA ROAD
BRYAN, TX 77807
C2.1 DRAINAGE AREA MAP
DRAWN BY: BM
CHECKED BY: RSK
DATE: 04-26-2022
PROJ. NO.: VR15003.317.4
SHEET:
C21-1
Rev.0



LEGEND

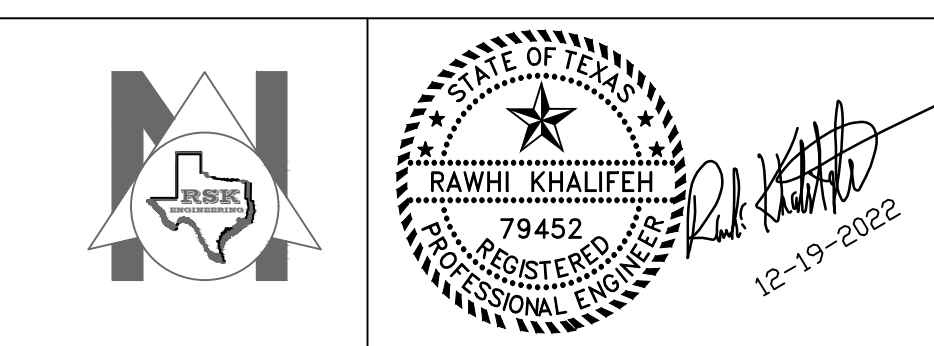
- DRAINAGE BOUNDARY
- FLOW DIRECTION
- CONTOUR
- INLET
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POST DEVELOPMENT DRAINAGE AREA SUMMARY		
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ADDRESS: 11302 TANNER RD
HOUSTON, TX 77041
PHONE #: 281-580-4585
EMAIL: RSKENGINEERING@GMAIL.COM

GRAPHIC SCALE




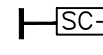


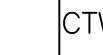
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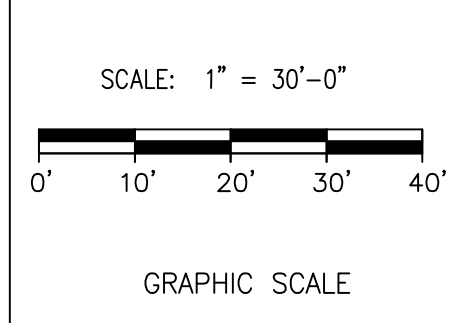
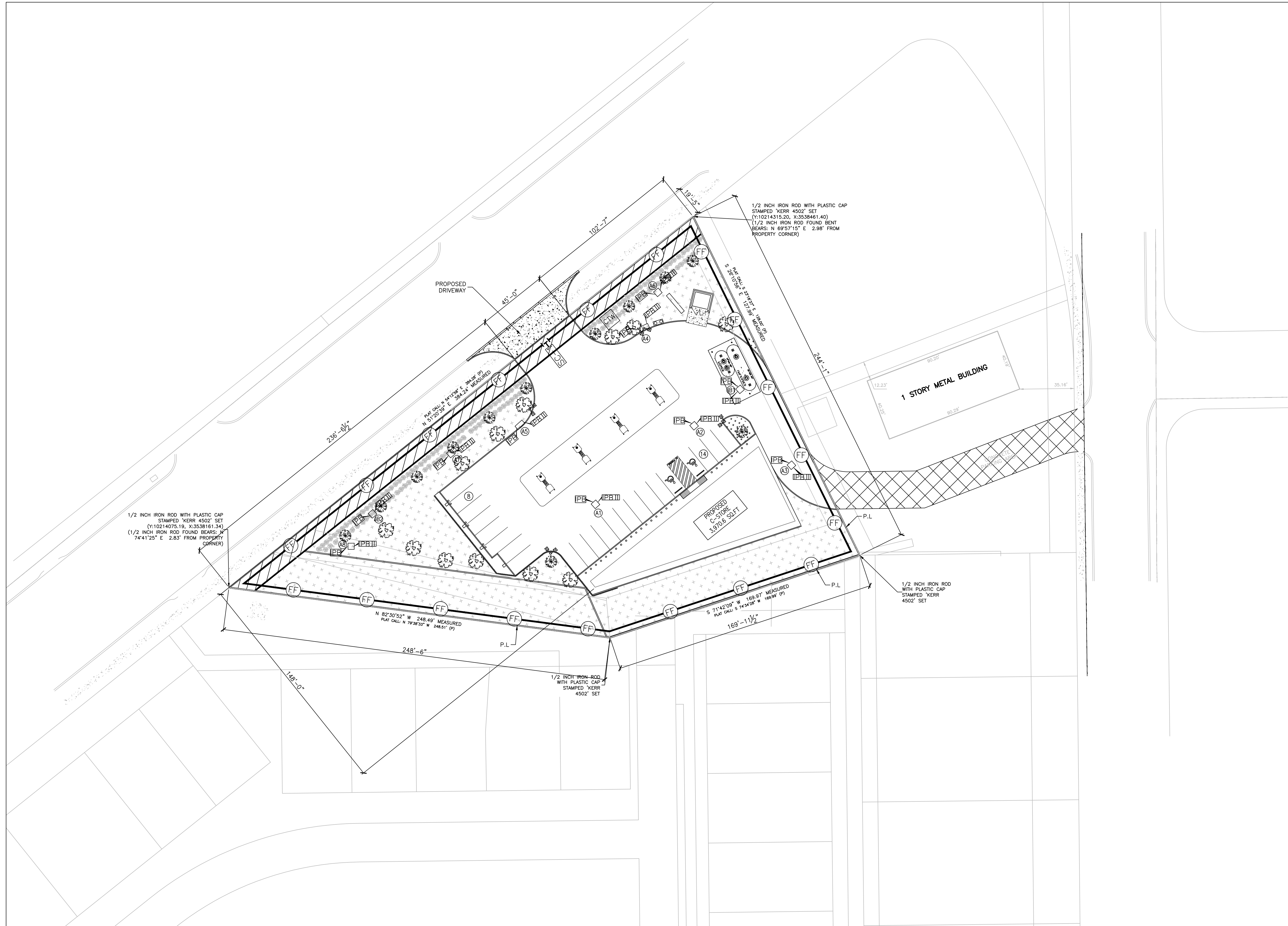
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VILLA MARIA GAS STATION
1919 WEST VILLA MARIA ROAD
BRYAN, TX 77807
C2.1 DRAINAGE AREA MAP
DRAWN BY: BM
CHECKED BY: RSK
DATE: 04-26-2022
PROJ. NO.: VR15003.317.4
SHEET:
C21-2 Rev.0

NOTE:
FOR DETAILS REFER C3.1

LEGENDS

-  FILTER FABRIC FENCE
-  STABILIZED CONSTRUCTION ACCESS
-  STAGE I INLET PROTECTION
-  STAGE II INLET PROTECTION
-  CONCRETE TRUCK WASHOUT AREA



STATE OF TEXAS
RAWHI KHALIFEH
79452
REGISTERED PROFESSIONAL ENGINEER
12/19/2022

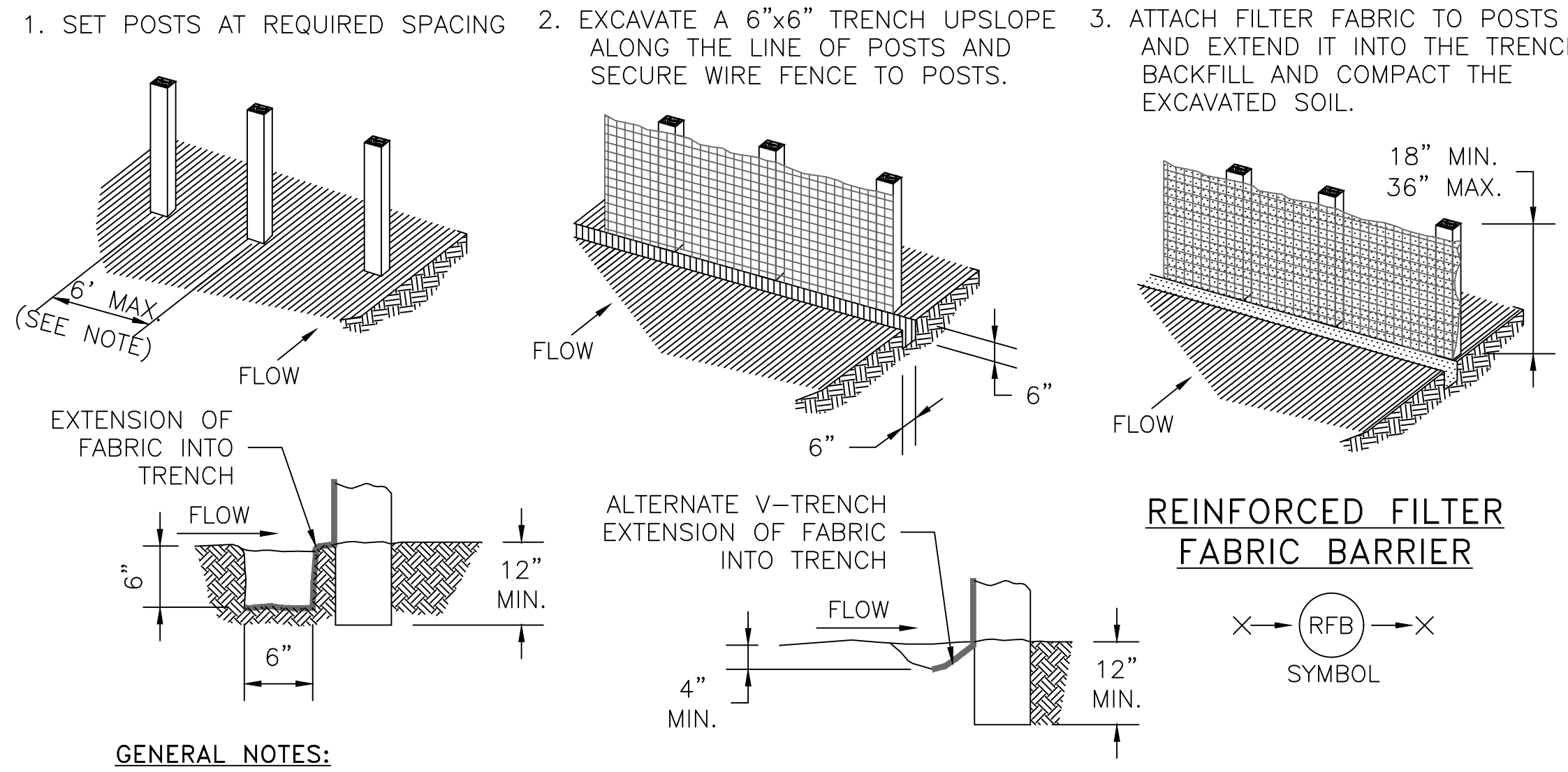
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VILLA MARIA GAS STATION
1919 WEST VILLA MARIA ROAD
BRYAN, TX 77807

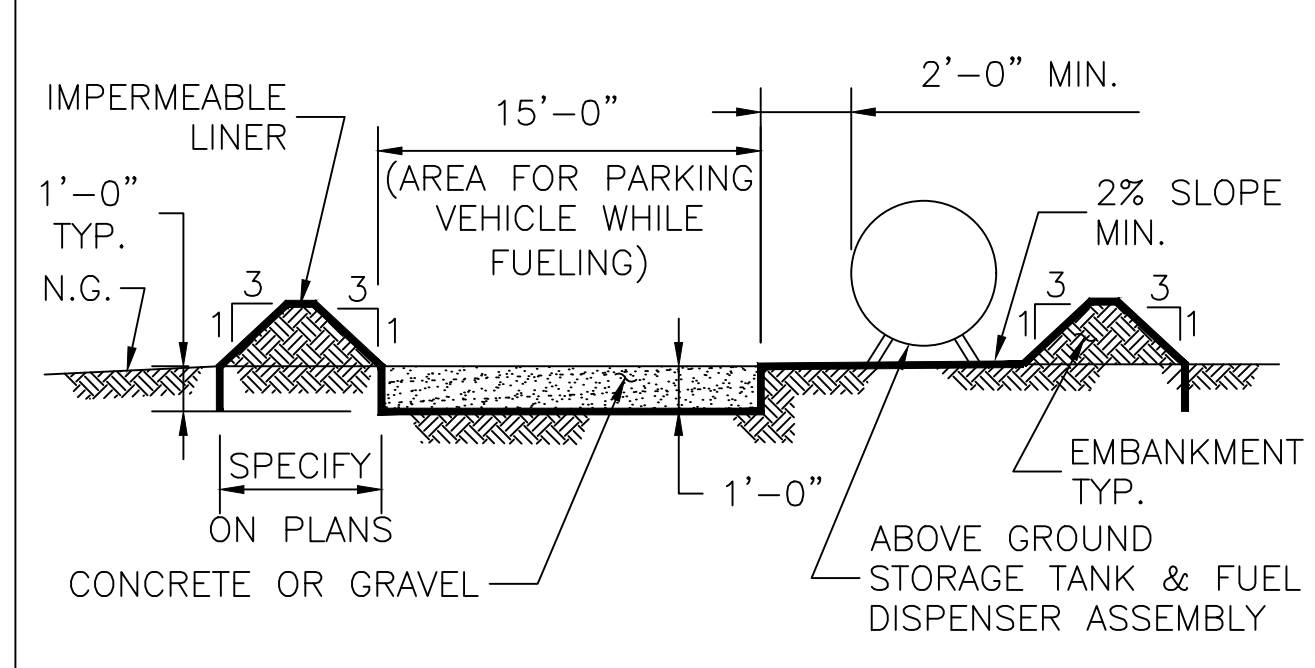
STORM WATER POLLUTION PROTECTION PLAN

DRAWN BY: BM	DATE: 12-6-2021	SHEET:
CHECKED BY: RSK	PROJ. NO.: VR151003.317.4	C3.0 Rev.0



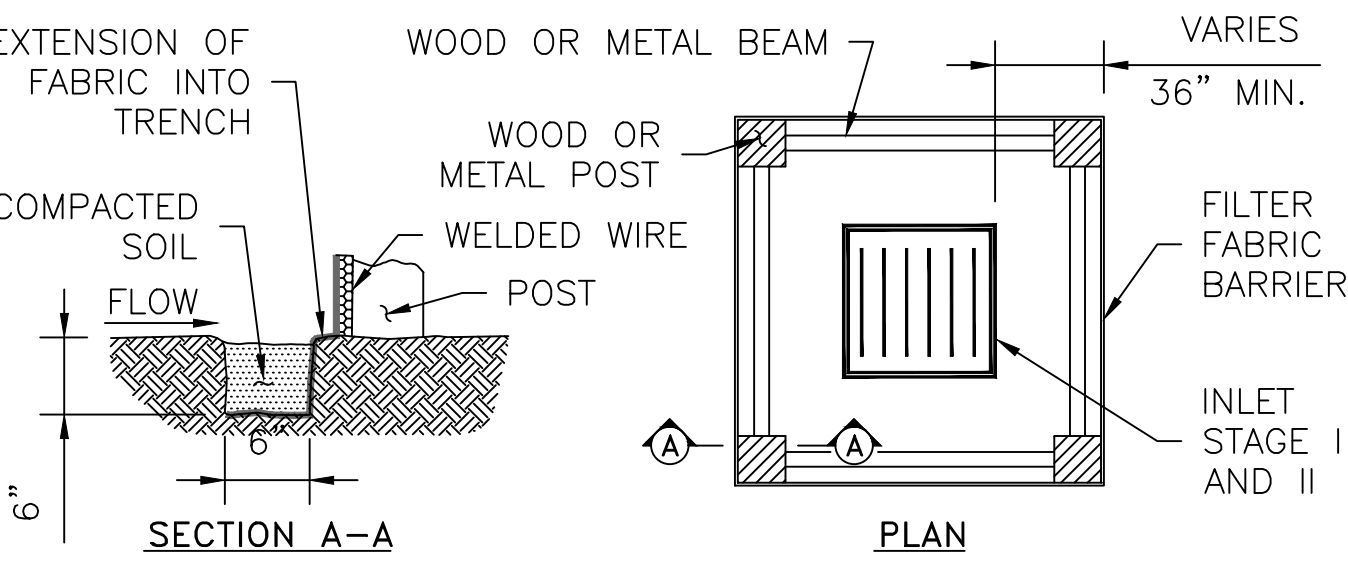
GENERAL NOTES:

1. SECURELY FASTEN MESH FENCING TO POSTS WITH STAPLES OR TIE WIRES.
2. SECURELY FASTEN FILTER FABRIC TO MESH FENCING.
3. WHEN TWO SECTIONS OF FILTER FABRIC ADJOIN EACH OTHER, OVERLAP 6 INCHES AT A POST, FOLD TOGETHER, AND ATTACH TO A POST.
4. REMOVE SEDIMENT DEPOSITS WHEN SILT REACHES ONE-THIRD OF THE HEIGHT OF THE FENCE IN DEPTH.



GENERAL NOTES:

1. THE SIZE OF TANK FOUNDATION AREA DEPENDS ON THE SIZE OF ABOVE GROUND STORAGE TANK AND DISPENSER ASSEMBLY.
2. PROVIDE A MINIMUM SLOPE OF 2% TOWARD THE SUMP PIT.
3. INSTALL IMPERMEABLE LINER AS PER MANUFACTURER'S RECOMMENDATIONS.

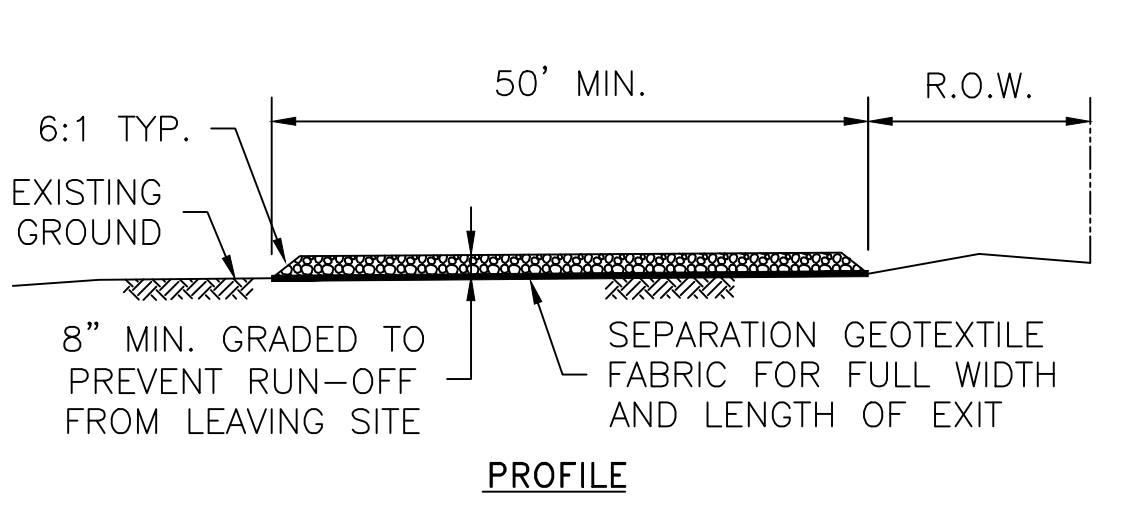


GENERAL NOTES:

1. FIBER ROLLS WILL BE UTILIZED ONLY WHEN SITE CONDITIONS DO NOT PERMIT THE USE OF FILTER FABRIC BARRIER, AND AS APPROVED BY THE ENGINEER.

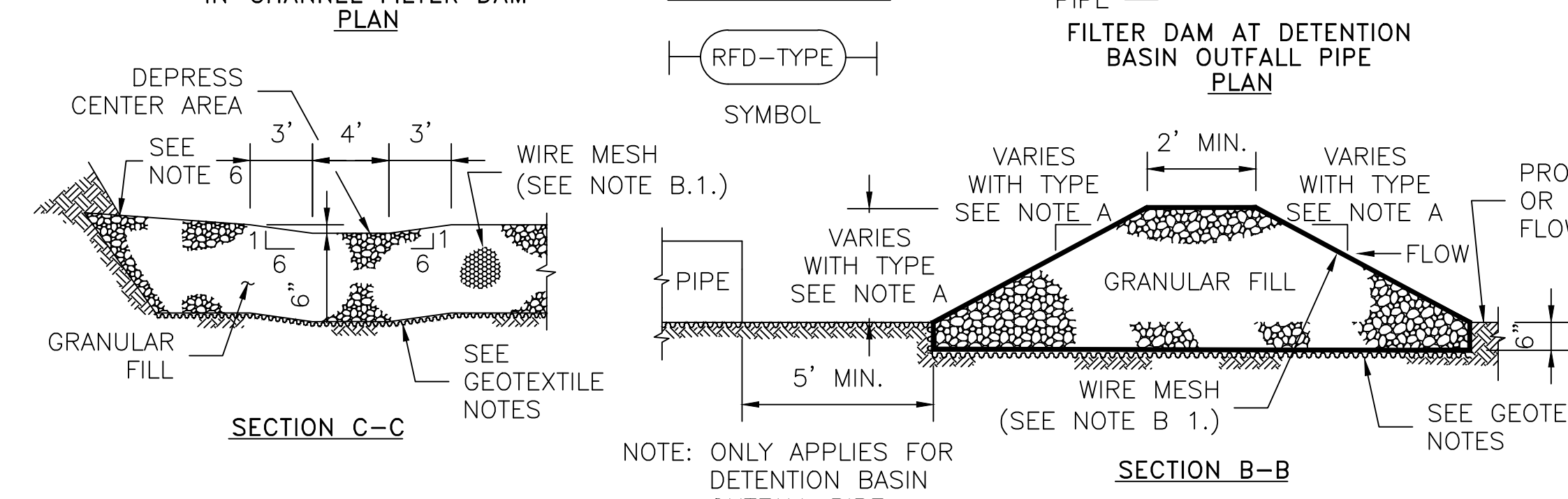
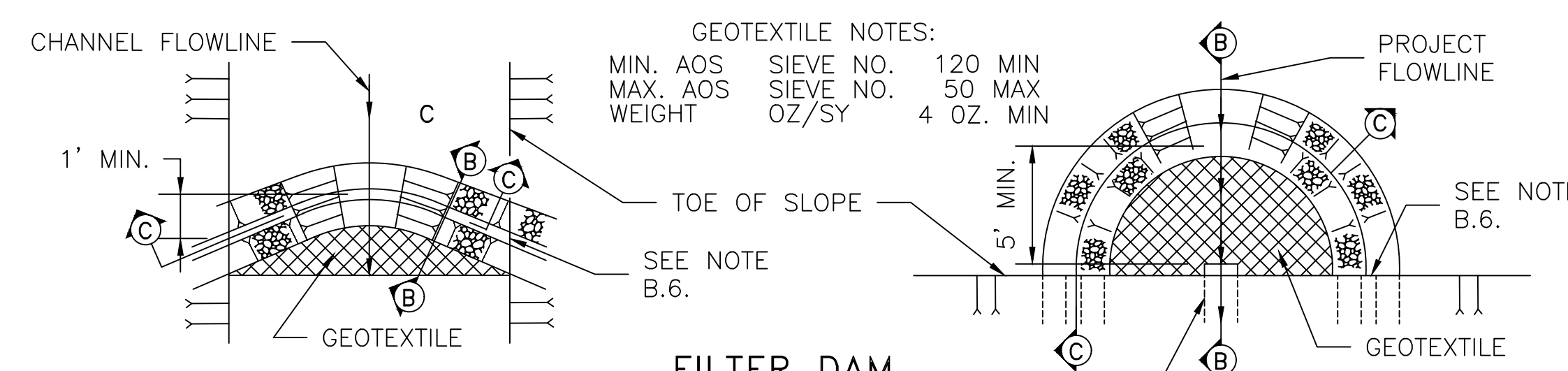
INLET PROTECTION BARRIERS FOR STAGE I INLETS

IPB SYMBOL



GENERAL NOTES:

1. MINIMUM LENGTH IS AS SHOWN ON CONSTRUCTION DRAWINGS OR 50 FEET, WHICHEVER IS MORE.
2. CONSTRUCT AND MAINTAIN CONSTRUCTION EXIT WITH CONSTANT WIDTH ACROSS ITS LENGTH, INCLUDING ALL POINTS OF INGRESS OR EGRESS.
3. UNLESS SHOWN ON THE CONSTRUCTION DRAWINGS, STABILIZATION FOR OTHER AREAS WILL HAVE THE SAME AGGREGATE THICKNESS AND WIDTH REQUIREMENTS AS THE STABILIZED CONSTRUCTION EXIT.
4. WHEN SHOWN ON THE CONSTRUCTION DRAWINGS, WIDEN OR LENGTHEN STABILIZED AREA TO ACCOMMODATE A TRUCK WASHING AREA. PROVIDE OUTLET SEDIMENT TRAP FOR THE TRUCK WASHING AREA.
5. PROVIDE PERIODIC TOP DRESSING WITH ADDITIONAL COARSE AGGREGATE TO MAINTAIN THE REQUIRED DEPTH OR WHEN SURFACE BECOMES PACKED WITH MUD.
6. PERIODICALLY TURN AGGREGATE TO EXPOSE A CLEAN DRIVING SURFACE.
7. MINIMUM 14' WIDTH FOR ONE WAY TRAFFIC AND 20' WIDTH FOR TWO WAY TRAFFIC.

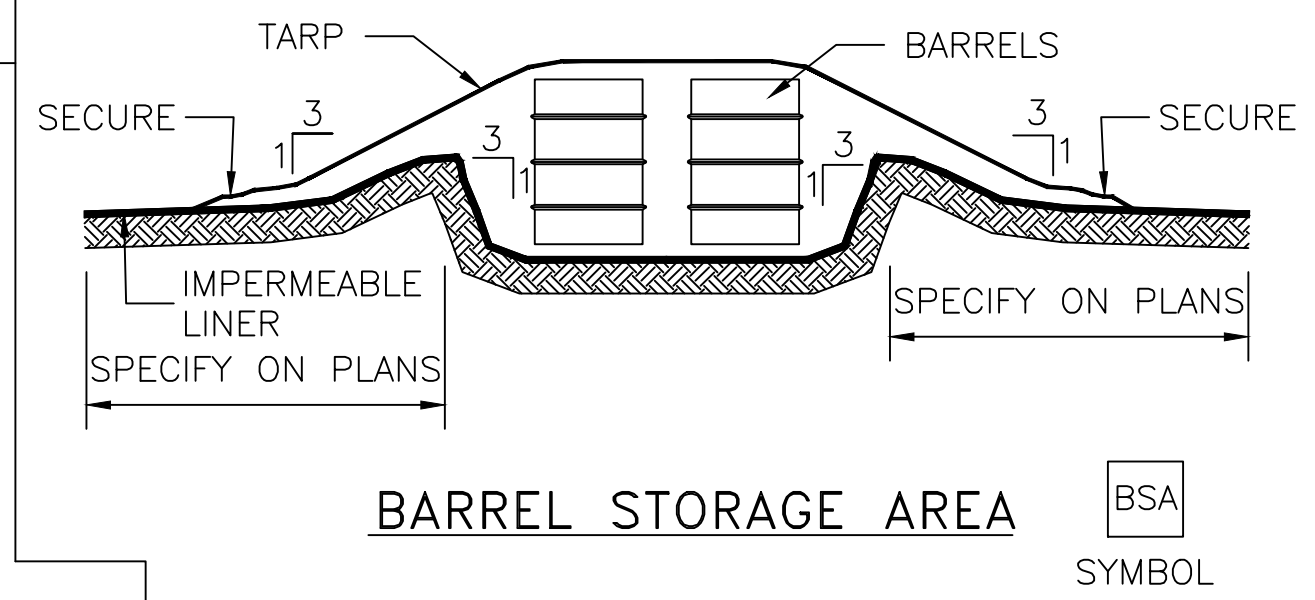


A. TYPES OF FILTER DAMS

1. TYPE 1 (NON-REINFORCED)
 - a. HEIGHT - 18-24 INCHES. MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
 - b. TOP WIDTH - 2 FEET (MINIMUM)
 - c. SLOPES - 2:1 (MAXIMUM).
2. TYPE 2 (REINFORCED)
 - a. HEIGHT - 18-36 INCHES. MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
 - b. TOP WIDTH - 2 FEET (MINIMUM).
 - c. SLOPES - 2:1 (MAXIMUM).
3. TYPE 3 (REINFORCED)
 - a. HEIGHT - 36-48 INCHES. MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
 - b. TOP WIDTH - 2 FEET (MINIMUM).
 - c. SLOPES - 3:1 (MAXIMUM).
4. TYPE 4 (GABION)
 - a. HEIGHT - 30 INCHES (MINIMUM). MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
 - b. TOP WIDTH - 2 FEET (MINIMUM).
5. TYPE 5. AS SHOWN ON THE PLANS.

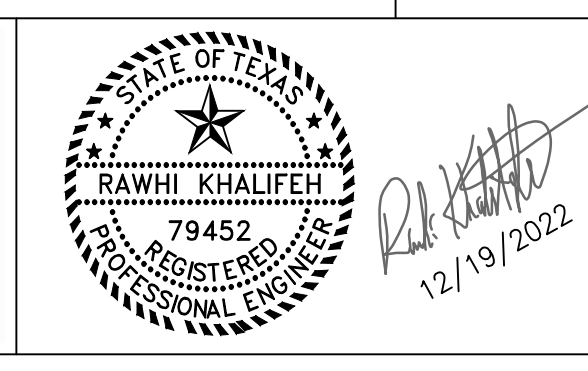
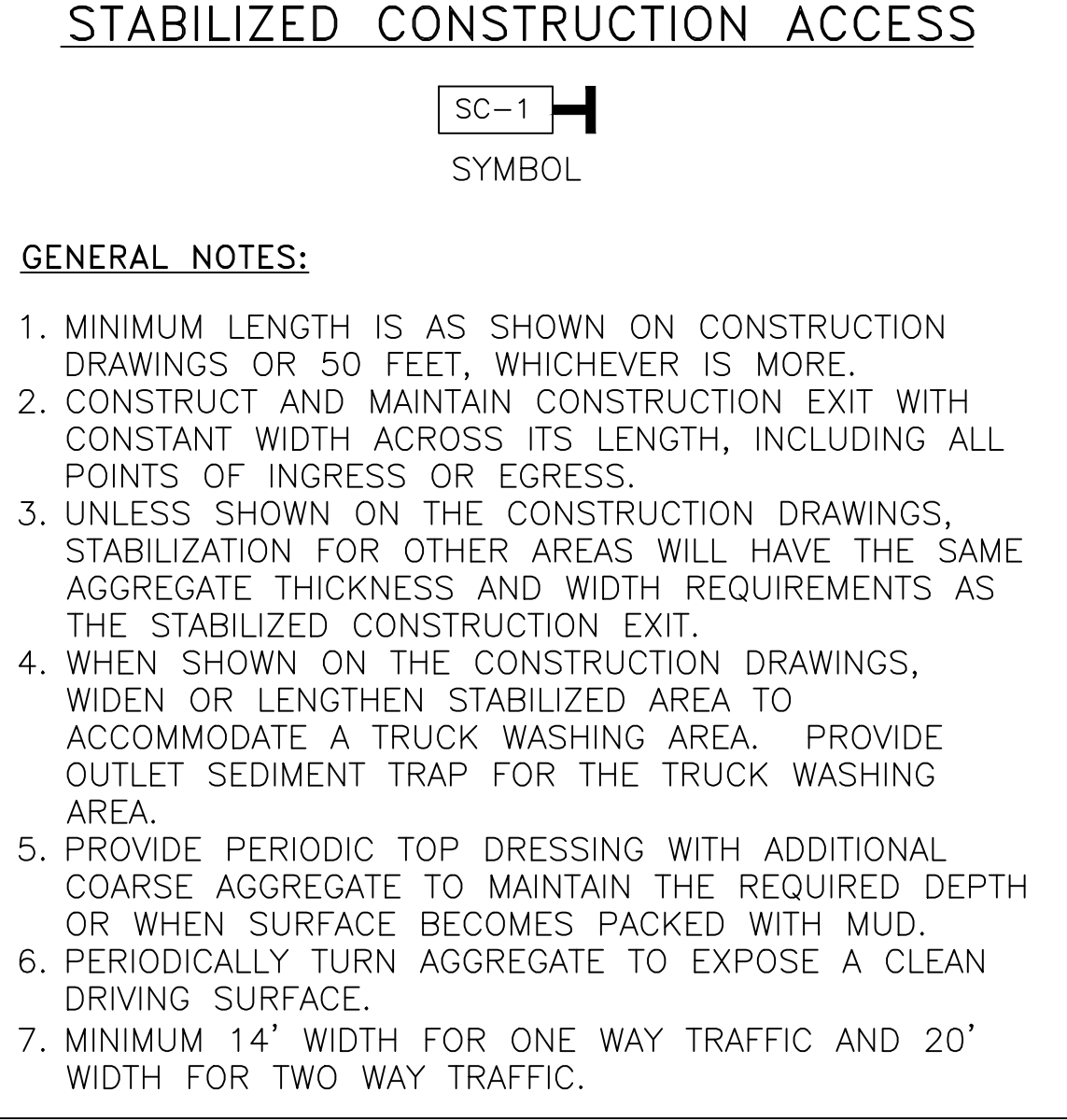
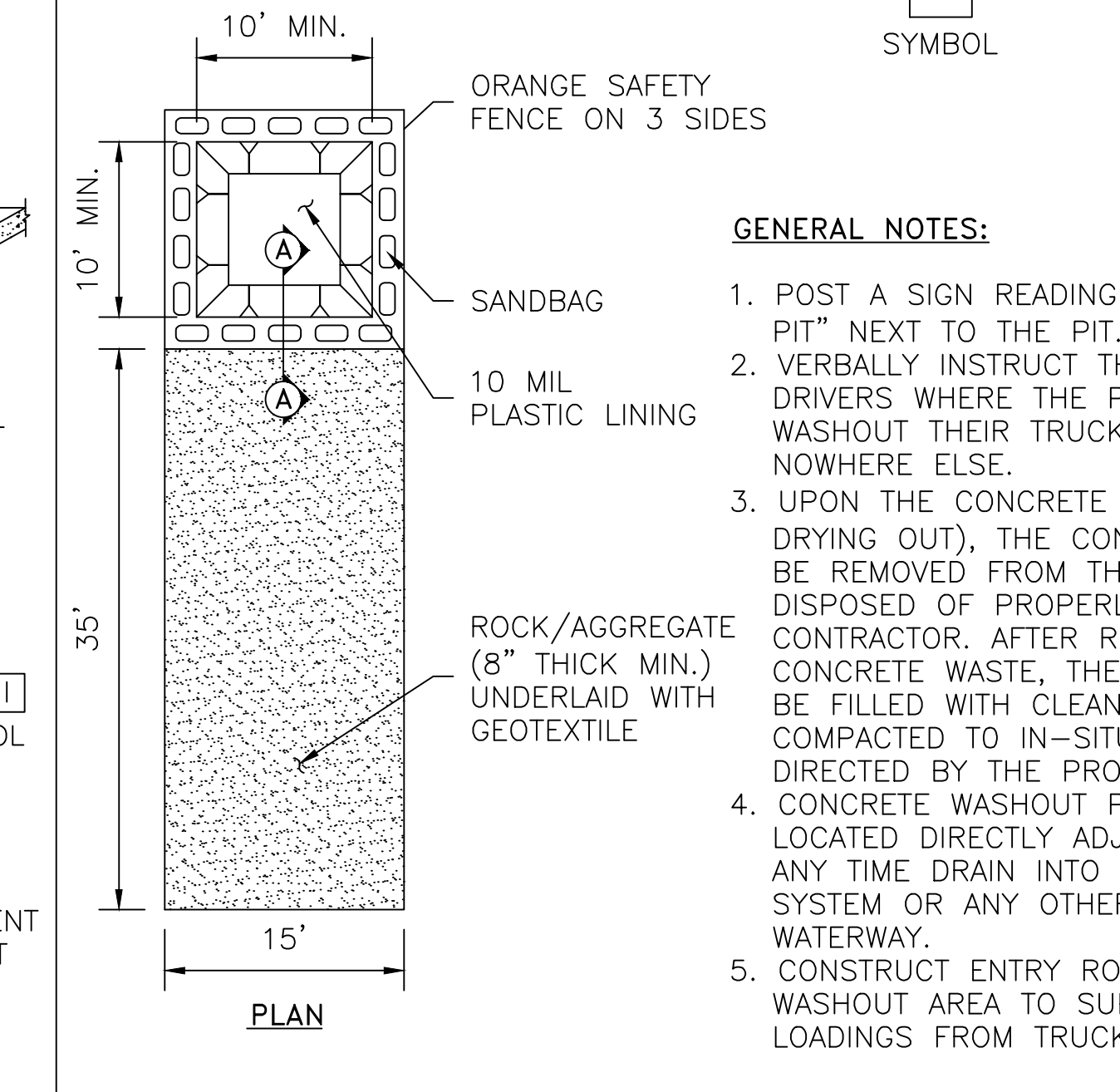
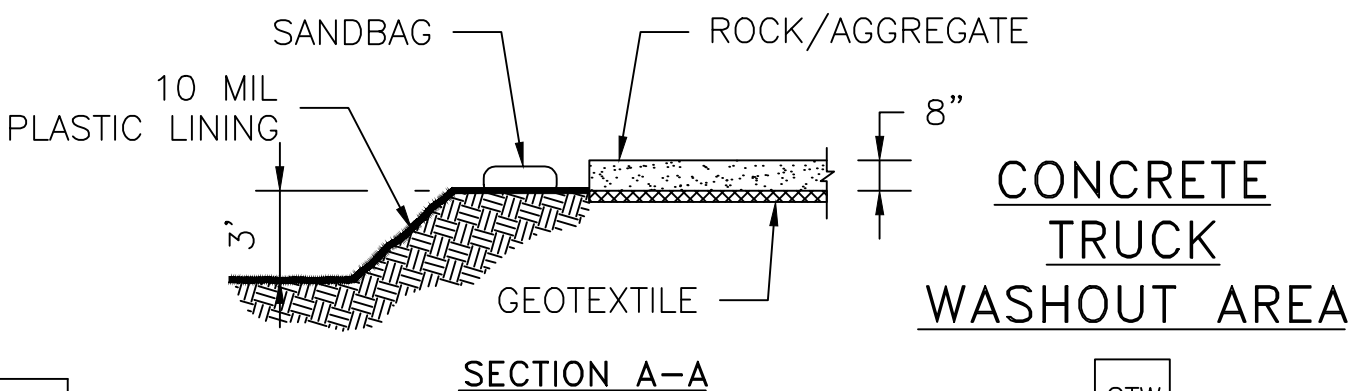
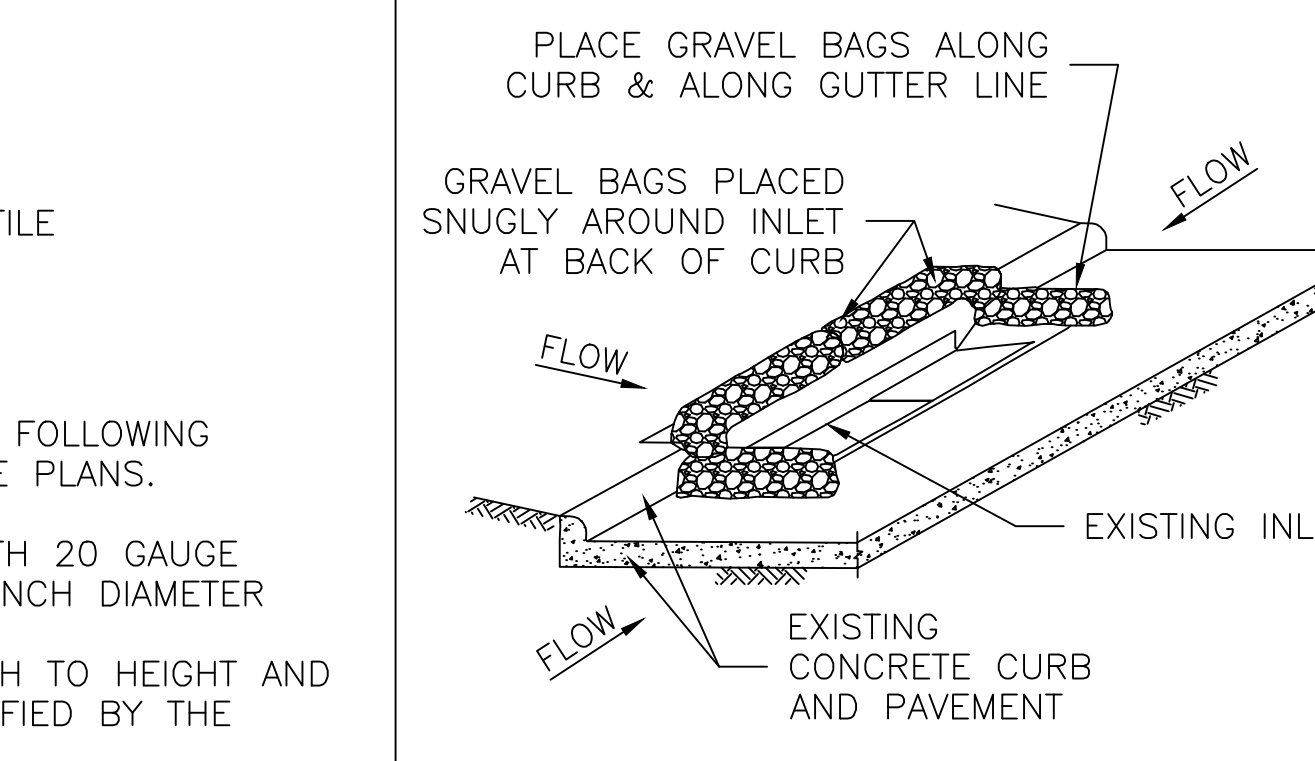
B. CONSTRUCT FILTER DAMS ACCORDING TO THE FOLLOWING CRITERIA UNLESS SHOWN OTHERWISE ON THE PLANS.

1. TYPE 2 AND 3 FILTER DAMS: SECURE WITH 20 GAUGE GALVANIZED WOVEN WIRE MESH WITH 1 INCH DIAMETER HEXAGONAL OPENINGS.
2. PLACE GRANULAR FILL ON THE WIRE MESH TO HEIGHT AND SLOPES SHOWN ON PLANS OR AS SPECIFIED BY THE ENGINEER.
 - a. 3-5 INCHES FOR ROCK FILTER DAM TYPES 1, 2 AND 4.
 - b. 4-8 INCHES FOR ROCK FILTER DAM TYPE REFER TO GRANULAR FILL IN SPECIFICATION SECTION No. 02378 RIPRAP AND GRANULAR FILL.
3. FOLD WIRE MESH AT UPSTREAM SIDE OVER GRANULAR FILL AND TIGHTLY SECURED TO ITSELF ON THE DOWNSTREAM SIDE USING WIRE TIES OR HOG RINGS.
4. IN STREAMS: SECURE OR STAKE MESH TO STREAM BED PRIOR TO AGGREGATE PLACEMENT.
5. SEE HCFD SPECIFICATION SECTION NO. 02364-FILTER DAMS.
6. EMBED ONE FOOT MINIMUM INTO SLOPE AND RAISE ONE FOOT HIGHER THAN CENTER OF DEPRESSED AREA AT SLOPE.



GENERAL NOTES:

1. ALTERNATIVELY, STORE BARRELS IN AN ENCLOSED BUILDING OR SHED.
2. INSTALL IMPERMEABLE LINER AS PER MANUFACTURER'S RECOMMENDATIONS. 60 mil MINIMUM.
3. CONSTRUCT BERMED AREA WITH VOLUME GREATER THAN OR EQUAL TO 110% VOLUME OF BARRELS.



ISSUE HISTORY		REVISIONS	
DATE	ISSUED FOR	DESCRIPTION	
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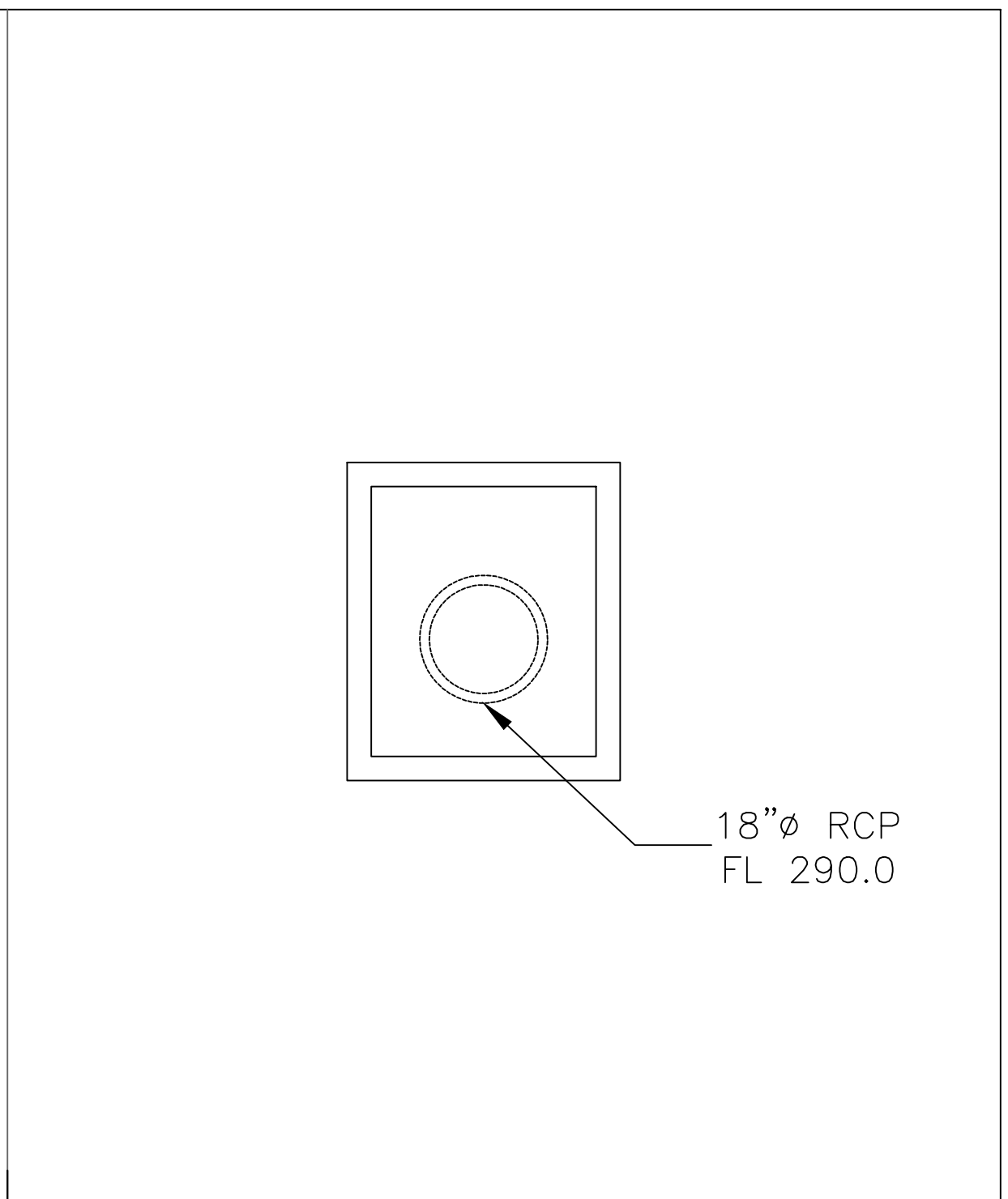
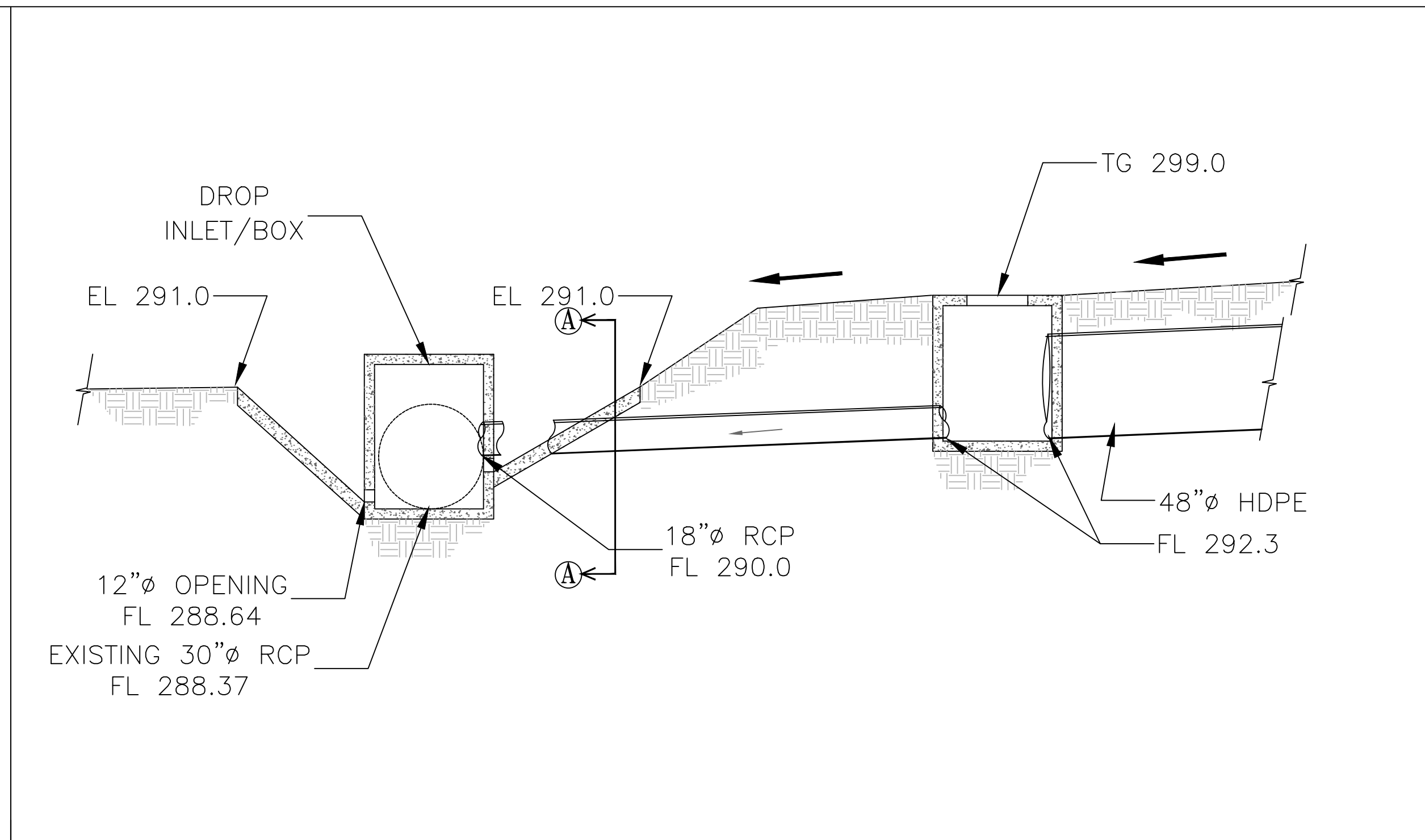
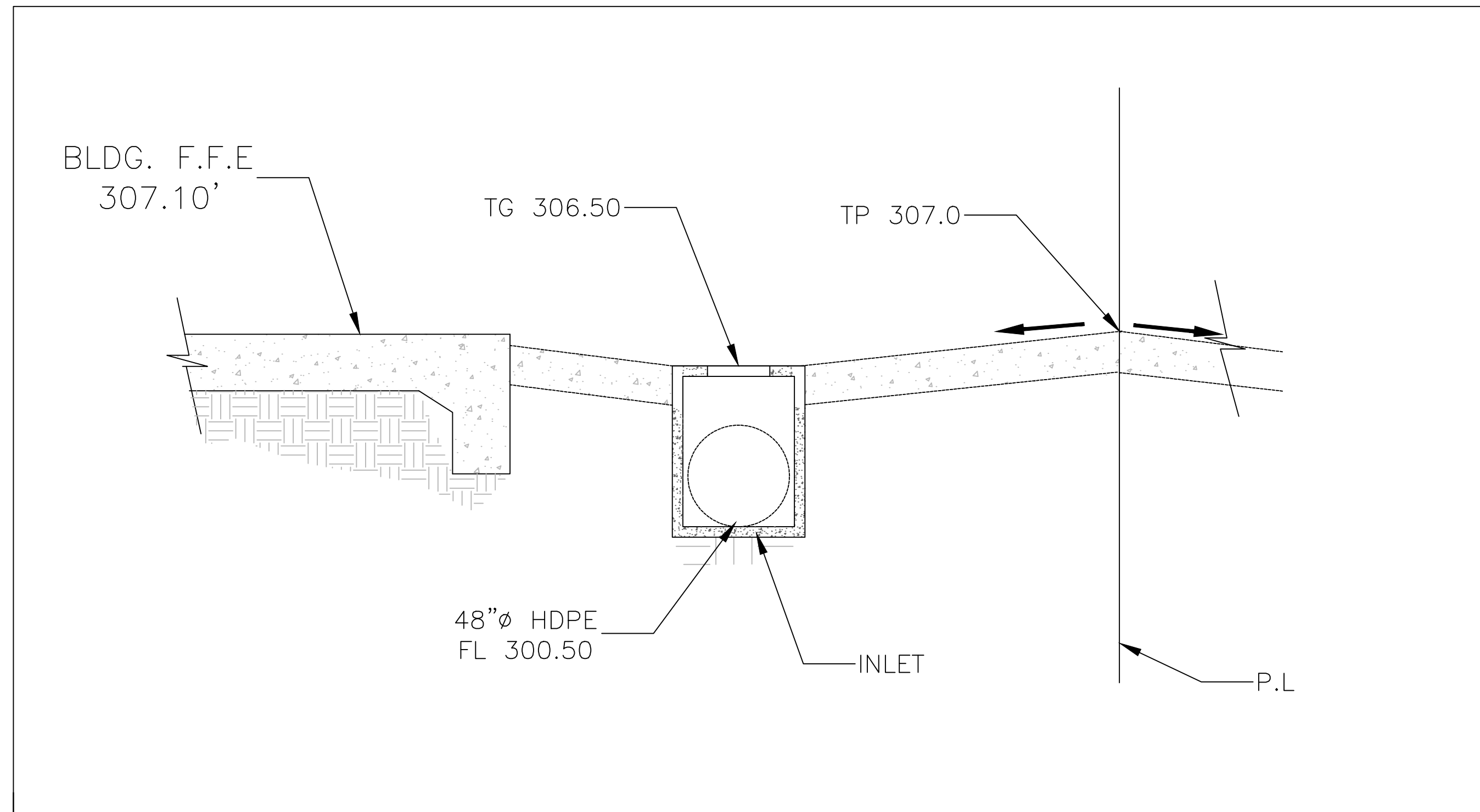
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FORM # F-11211

VILLA MARIA GAS STATION
1919 WEST VILLA MARIA ROAD
BRYAN, TX 77807

STORM WATER QUALITY POLLUTION PREVENTION DETAILS

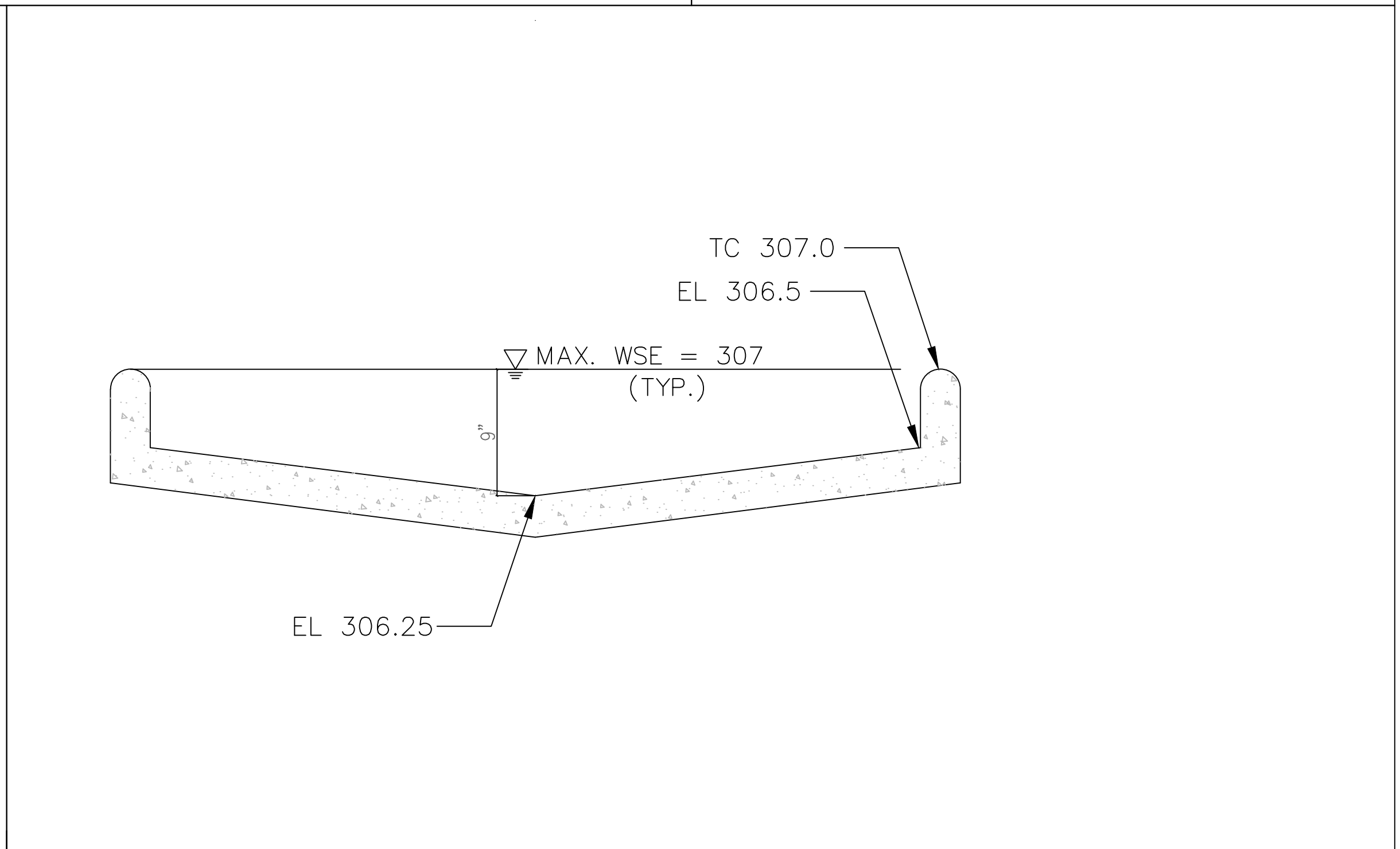
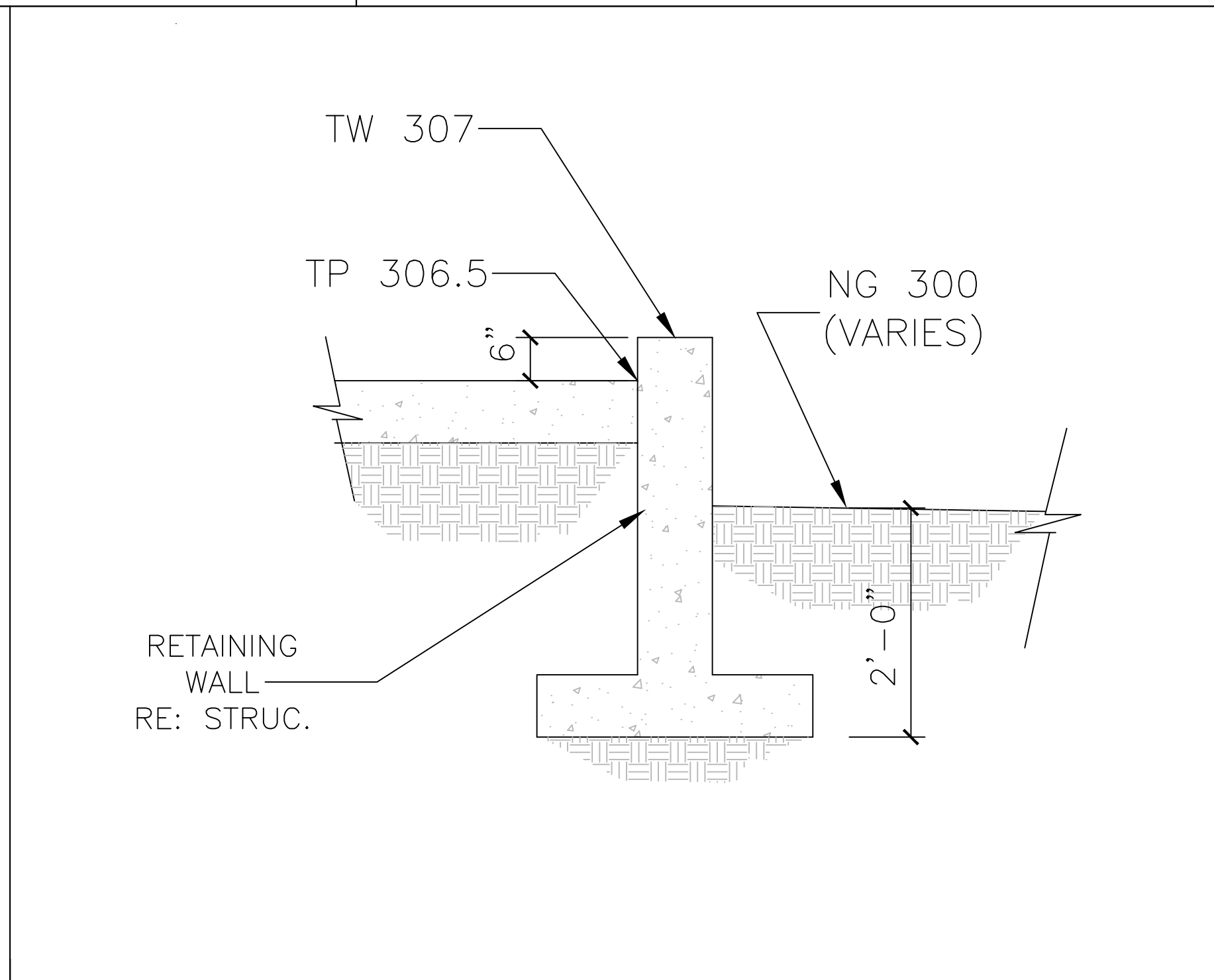
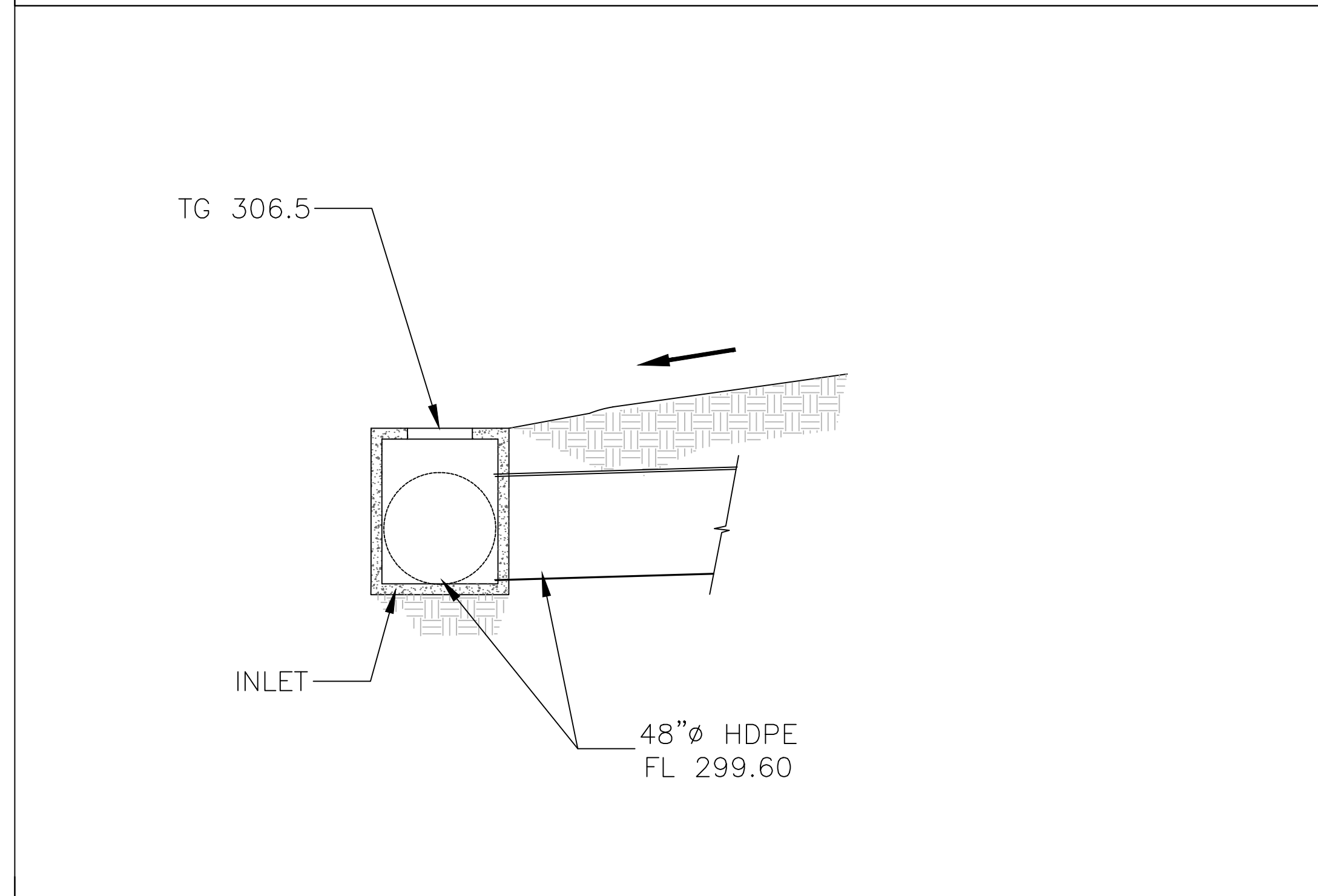
DRAWN BY: BM DATE: 12-6-2021 SHEET: **C3.1** Rev.0
CHECKED BY: RSK PROJ. NO.: VR151003.317.4



SECTION 1
SCALE: NTS

SECTION 3
SCALE: NTS

SECTION: A-A
SCALE: NTS



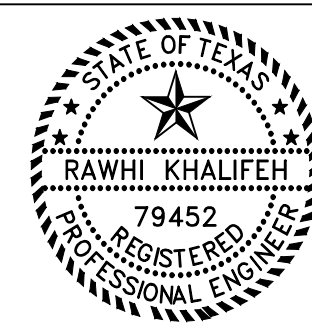
SECTION 2
SCALE: NTS

SECTION 4
SCALE: NTS

SECTION 5: AT PARKING LOT (TYP.)
SCALE: NTS

NONE

GRAPHIC SCALE



Rawhi Khalifeh
12/19/2022

ISSUE HISTORY		REVISIONS	
DATE	ISSUED FOR	DESCRIPTION	
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-	-	-	-
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VILLA MARIA GAS STATION		
1919 WEST VILLA MARIA ROAD BRYAN, TX 77807		
DRAINAGE SECTIONS		
DRAWN BY: BM	DATE: 12-6-2021	SHEET:
CHECKED BY: RSK	PROJ. NO.: VR151003.317.4	C4.0 Rev.0

VILLA MARIA STORE
DRAINAGE AREA RUNOFF COMPUTATIONS
CITY OF BRYAN/COLLEGE STATION - RATIONAL METHOD

Frequency (Yr) 100

SYSTEM	DA	RUNOFF COEFFICIENTS, C (Table C-2 & C-3)							C	Area (A)	T _c	Intensity (I)	Discharge (Q)	
		Developed Area			Developed Area - Grass			Unimproved						
		Asphalt	Concrete	Roof Areas	<50% Cover	50-75% Cover	>75% Cover							
OUTFALL	I.D.	0.90	0.92	0.92	0.85	0.32	0.25	0.21	0.25	Wtd.	Acres	mins	in./hr	cfs
Existing Conditions														
Exist Drop Inlet	AREA #1			0.15					1.26	0.32	1.53	13.90	10.09	4.94
VM Curb Inlet	AREA #2		0.40				0.19		0.70	0.59	10.75	10.09	4.19	
Proposed Conditions														
INLET-A3	AREA #4		0.03	0.09			0.06		0.68	0.18	10.00	11.64	1.43	
INLET-A1	A1		0.19						0.92	0.19	10.00	11.64	2.02	
INLET-A2	A2		0.24						0.92	0.24	10.00	11.64	2.59	
INLET-A3	A3		0.04						0.92	0.04	10.00	11.64	0.44	
INLET-A4	A4		0.10						0.92	0.10	10.00	11.64	1.07	
INLET-A5	A5		0.11						0.92	0.11	10.00	11.64	1.14	
INLET-A6	A6						0.07		0.21	0.10	10.00	11.64	0.24	
INLET-A7	A7						0.12		0.21	0.12	10.00	11.64	0.30	
INLET-A8	A8						0.04		0.21	0.04	10.00	11.64	0.09	
	(AREA #1 + #4)		0.71	0.09			0.29		0.73	1.12	10.00	11.64	9.54	
Exist Drop Inlet	AREA #3						0.64		0.25	0.64	11.72	11.64	1.86	
VM Curb Inlet	AREA #2		0.55						0.92	0.55	10.75	11.64	5.89	

Frequency (Yr) 25

SYSTEM	DA	RUNOFF COEFFICIENTS, C (Table C-2 & C-3)							C	Area (A)	T _c	Intensity (I)	Discharge (Q)	
		Developed Area			Developed Area - Grass			Unimproved						
		Asphalt	Concrete	Roof Areas	<50% Cover	50-75% Cover	>75% Cover							
OUTFALL	I.D.	0.90	0.92	0.92	0.85	0.32	0.25	0.21	0.25	Wtd.	Acres	mins	in./hr	cfs
Existing Conditions														
Exist Drop Inlet	AREA #1			0.15					1.26	0.32	1.53	13.90	8.54	4.18
VM Curb Inlet	AREA #2		0.40				0.19		0.70	0.59	10.75	8.54	3.55	
Proposed Conditions														
INLET-A3	AREA #4		0.03	0.09			0.06		0.68	0.18	10.00	9.86	1.21	
INLET-A1	A1		0.19						0.92	0.19	10.00	9.86	1.71	
INLET-A2	A2		0.24						0.92	0.24	10.00	9.86	2.19	
INLET-A3	A3		0.04						0.92	0.04	10.00	9.86	0.37	
INLET-A4	A4		0.10						0.92	0.10	10.00	9.86	0.91	
INLET-A5	A5		0.11						0.92	0.11	10.00	9.86	0.96	
INLET-A6	A6						0.07		0.21	0.10	10.00	9.86	0.21	
INLET-A7	A7						0.12		0.21	0.12	10.00	9.86	0.26	
INLET-A8	A8						0.04		0.21	0.04	10.00	9.86	0.08	
	(AREA #1 + #4)		0.71	0.09			0.29		0.73	1.12	10.00	9.86	8.08	
Exist Drop Inlet	AREA #3						0.64		0.25	0.64	11.72	9.86	1.58	
VM Curb Inlet	AREA #2		0.55						0.92	0.55	10.75	9.86	1.64	

Frequency (Yr) 10

SYSTEM	DA	RUNOFF COEFFICIENTS, C (Table C-2 & C-3)							C	Area (A)	T _c	Intensity (I)	Discharge (Q)	
		Developed Area			Developed Area - Grass			Unimproved						
		Asphalt	Concrete	Roof Areas	<50% Cover	50-75% Cover	>75% Cover							
OUTFALL	I.D.	0.90	0.92	0.92	0.85	0.32	0.25	0.21	0.25	Wtd.	Acres	mins	in./hr	cfs
Existing Conditions														
Exist Drop Inlet	AREA #1			0.15					0.32	1.53	13.90	7.46	3.66	
VM Curb Inlet	AREA #2		0.40				0.19		0.70	0.59	10.75	7.46	3.10	
Proposed Conditions														
INLET-A3	AREA #4		0.03	0.09			0.06		0.68	0.18	10.00	8.63	1.06	
INLET-A1	A1		0.19						0.92	0.19	10.00	8.63	1.50	
INLET-A2	A2		0.24						0.92	0.24	10.00	8.63	1.92	
INLET-A3	A3		0.04						0.92	0.04	10.00	8.63	0.33	
INLET-A4	A4		0.10						0.92	0.10	10.00	8.63	0.79	
INLET-A5	A5		0.11						0.92	0.11	10.00	8.63	0.84	
INLET-A6	A6						0.07		0.21	0.10	10.00	8.63	0.18	
INLET-A7	A7						0.12		0.21	0.12	10.00	8.63	0.22	
INLET-A8	A8						0.04		0.21	0.04	10.00	8.63	0.07	
	(AREA #1 + #4)		0.71	0.09			0.29		0.73	1.12	10.00	8.63	7.08	
Exist Drop Inlet	AREA #3						0.64		0.60	0.64	11.72	8.63	3.33	
VM Curb Inlet	AREA #2		0.55						0.92	0.55	10.75	8.63	1.43	

VILLA MARIA STORE
DRAINAGE AREA RUNOFF COMPUTATIONS
CITY OF BRYAN/COLLEGE STATION - RATIONAL METHOD

Frequency (Yr) 2

SYSTEM	DA	RUNOFF COEFFICIENTS, C (Table C-2 & C-3)							C	Area (A)	T _c	Intensity (I)	Discharge (Q)	
		Developed Area			Developed Area - Grass			Unimproved						
		Asphalt	Concrete	Roof Areas	<50% Cover	50-75% Cover	>75% Cover							
OUTFALL	I.D.	0.90	0.92	0.92	0.85	0.32	0.25	0.21	0.25	Wtd.	Acres	mins	in./hr	cfs
Existing Conditions														
Exist Drop Inlet	AREA #1			0.15					0.32	1.53	13.90	5.40	2.65	
VM Curb Inlet	AREA #2		0.40				0.19		0.70	0.59	10.75	5.40	2.25	
Proposed Conditions														
INLET-A3	AREA #4		0.03	0.09			0.06		0.68	0.18	10.00	6.33	0.78	
INLET-A1	A1		0.19						0.92	0.19	10.00	6.33	1.10	
INLET-A2	A2		0.24						0.92	0.24	10.00	6.33	1.41	
INLET-A3	A3		0.04						0.92	0.04	10.00	6.33	0.24	
INLET-A4	A4		0.10						0.92	0.10	10.00	6.33	0.58	
INLET-A5	A5		0.11						0.92	0.11	10.00	6.33	0.62	
INLET-A6	A6						0.07		0.21	0.10	10.00	6.33	0.13	
INLET-A7	A7						0.12		0.21	0.12	10.00	6.33	0.16	
INLET-A8	A8						0.04		0.21	0.04	10.00	6.33	0.05	
	(AREA #1 + #4)		0.71	0.09			0.29		0.73	1.12	10.00	6.33	5.18	
Exist Drop Inlet	AREA #3						0.64		0.25	0.64	11.72	6.33	1.01	
VM Curb Inlet	AREA #2		0.55						0.92	0.55	10.75	6.33	1.05	

Notes: 1 - Table C-2, Unified Stormwater Design Guidelines, City of Bryan/City of College Station 2020

TIME OF CONCENTRATION (T_c)

Bryan-College Station - TIME OF CONCENTRATION CALCULATION (T _c)			
OVERLAND SHEET FLOW			
		EXISTING CONDITIONS	PROPOSED CONDITIONS
Overland Flow Distance (<=300ft)	L	ft	300
2-year, 24-hour Rainfall depth (Table C-6)	P ₂	inches	4.50
Slope of land (ft/ft)	S	ft/ft	0.065
Mannings Roughness Coeff.	n		0.150
Travel Time	$T_t = \frac{0.007(nL)^{0.8}}{(P_2)^{0.5}S^{0.4}}$	T _t	0.21

SHALLOW CONCENTRATED FLOW			
		EXISTING CONDITIONS	PROPOSED CONDITIONS
Flow Distance	D	ft	180
Overland Slope	S _{up}	ft/ft	0.072
Runoff Velocity (Table C-4)	V	ft/s	2.00
Travel Flow Time	T = D/60V	T	1.50

CHANNEL FLOW													
Channel Shape	Channel Slope S _o (ft/ft)	Bottom Width (ft)	Water Depth (ft)	Side Slope (H:1)	Diameter (ft)	X-Section Area (ft ²)	Top Width (ft)	Wetted Perimeter (ft)	Existing Length of Channel (ft)	Proposed Length of Channel (ft)	EXISTING CONDITIONS	PROPOSED CONDITIONS	
Trapezoidal Channel						0.00	0.00	0.00					
Triangular Channel						0.00	0.00	0.00					
Circular Channel	0.0017				1.50	1.77	1.34	258.00		450	0.00	10.71	
Travel Flow Time, T (mins)										0.00	10.71		

TOTAL TIME OF CONCENTRATION			
TIME OF CONCENTRATION USED	mins	13.90	11.72
	mins	13.90	11.72

VILLA MARIA STORE

APPENDIX C

DETENTION CALCULATIONS FOR 100-YR STORM EVENT

PEAK INFLOW RATE	I	8.34	CFS
PEAK DISCHARGE RATE	O	4.94	CFS
TOTAL AREA OF DEVELOPMENT	A	1.26	AC-FT
100-YR, 24-HR RAINFALL DEPTH	P ₁₀₀	11.00	IN
INITIAL INFILTRATION			
LAND USE DESCRIPTION (TR-55 Table 2-2a)	Commercial & Business Areas		
HYDROLOGIC SOIL GROUP	HSG	C	
SCS CURVE No. (TR-55 Table 2-2a)	CN	94	
RETENTION AFTER RUNOFF (S = (1000/CN)-10)	S	0.64	IN
INITIAL ABSTRACTION (I _a = 0.2*S)	I _a	0.128	IN
TOTAL BASIN INFLOW VOLUME	V _R	1.16	AC-FT
$B = \frac{43560V_R}{0.5I}$	B	12115	SECONDS
$S = \frac{0.5B(I-O)}{43560}$	S	20555	CF
REQUIRED DETENTION		0.47	AC-FT

RESTRICTOR CALCULATION

ALLOWABLE DISCHARGE (100-YR EVENT)	Q _{allow}	4.94	CFS
CONTRACTION COEFFICIENT	C _d	0.82	
GRAVITATIONAL CONSTANT	g	32.2	FT/S ²
HEAD (ASSUMED)	H	3.00	FT
RESTRICTOR DIAMETER $D = \frac{\sqrt{Q}}{2.25H^{0.25}}$	D	0.75	FT
		9.0	IN.
RESTRICTOR SIZE TO USE	D _{actual}	8.0	IN.
	A	0.35	SF
HEAD (ACTUAL)	H _{actual}	3.50	FT
ACTUAL DISCHARGE $Q = C_d A_0 \sqrt{2gH}$	Q _{actual}	4.30	CFS

DETENTION CALCULATIONS FOR 25-YR STORM EVENT

PEAK INFLOW RATE	I	7.06	CFS
PEAK DISCHARGE RATE	O	4.18	CFS
TOTAL AREA OF DEVELOPMENT	A	1.26	AC-FT
25-YR, 24-HR RAINFALL DEPTH	P ₂₅	8.40	IN
INITIAL INFILTRATION			
LAND USE DESCRIPTION (DD11 DCM Tbl 6-5)	Commercial & Business Areas		
HYDROLOGIC SOIL GROUP	HSG	C	
SCS CURVE No. (DD11 DCM TBL 6-5)	CN	94	
RETENTION AFTER RUNOFF (S = (1000/CN)-10)	S	0.64	IN
INITIAL ABSTRACTION (I _a = 0.2*S)	I _a	0.128	IN

KEYED NOTES:

- CONNECT NEW SEWER LINE TO EXISTING SEWER LINE AS SHOWN. FIELD TO COORDINATE ACTUAL LOCATION OF EXISTING SEWER LINE.
- CONNECT NEW NATURAL GAS LINE TO EXISTING NATURAL GAS LINE AS SHOWN. FIELD TO COORDINATE ACTUAL LOCATION OF EXISTING NATURAL GAS LINE.
- CONNECT NEW DOMESTIC WATER LINE TO EXISTING DOMESTIC WATER LINE AS SHOWN. FIELD TO COORDINATE ACTUAL LOCATION OF EXISTING DOMESTIC WATER LINE.

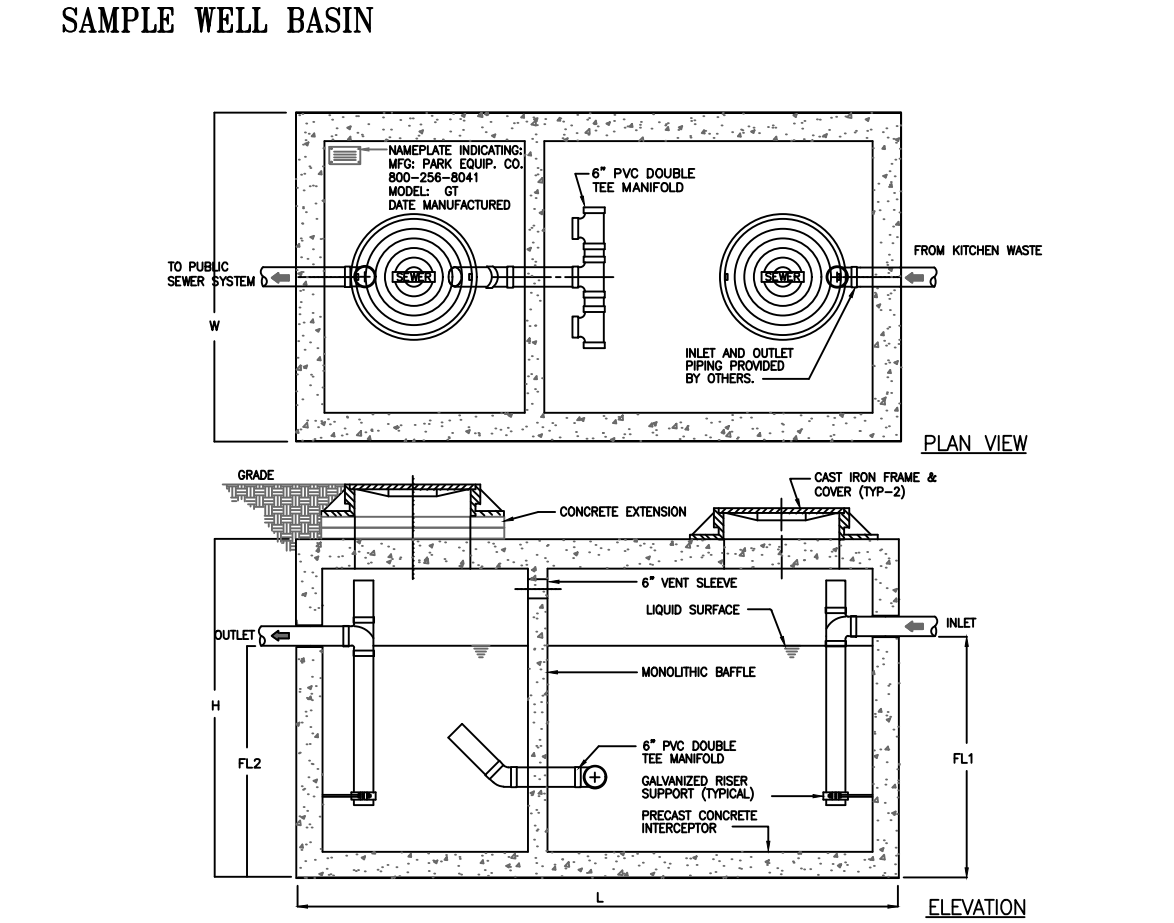
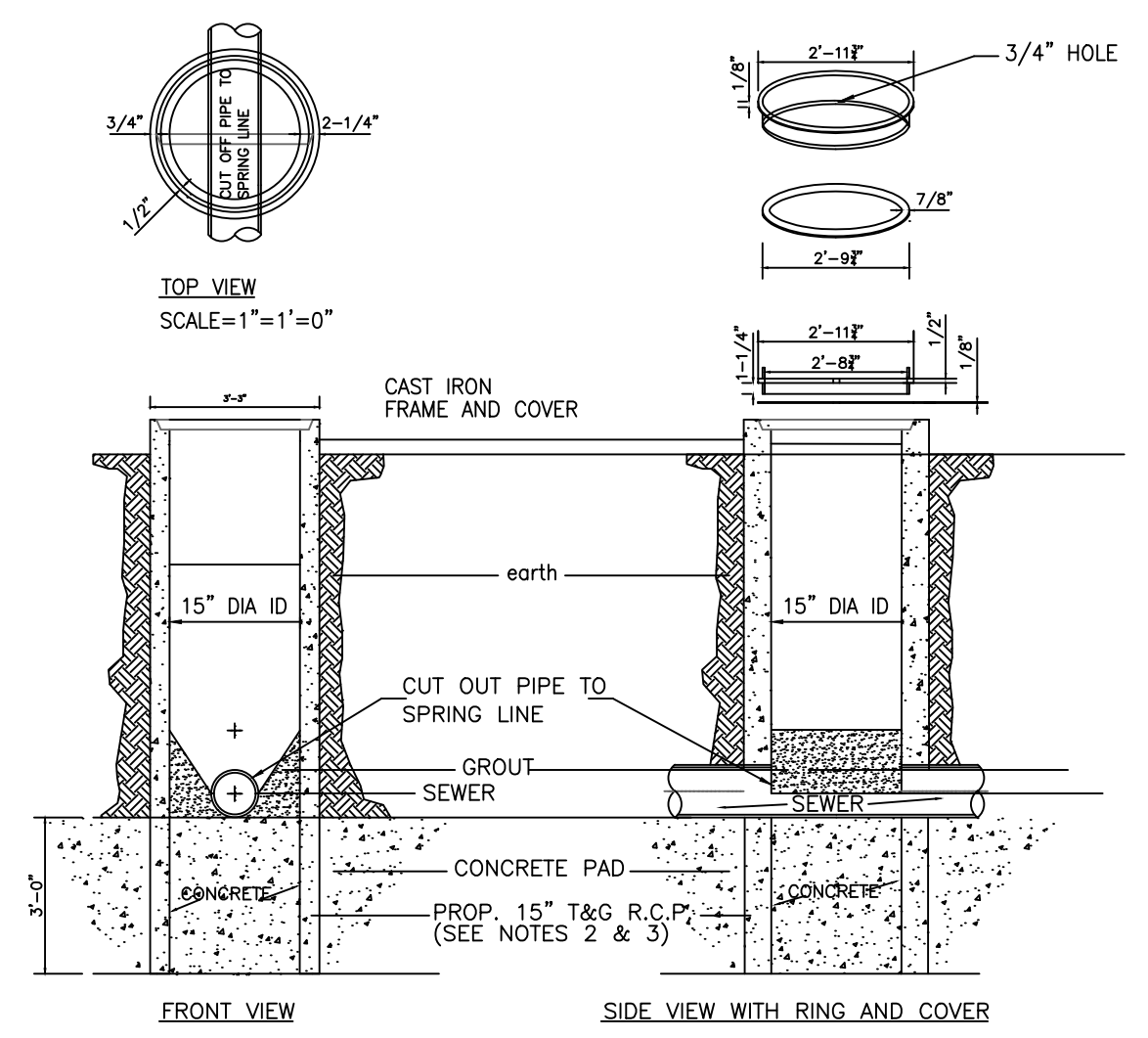
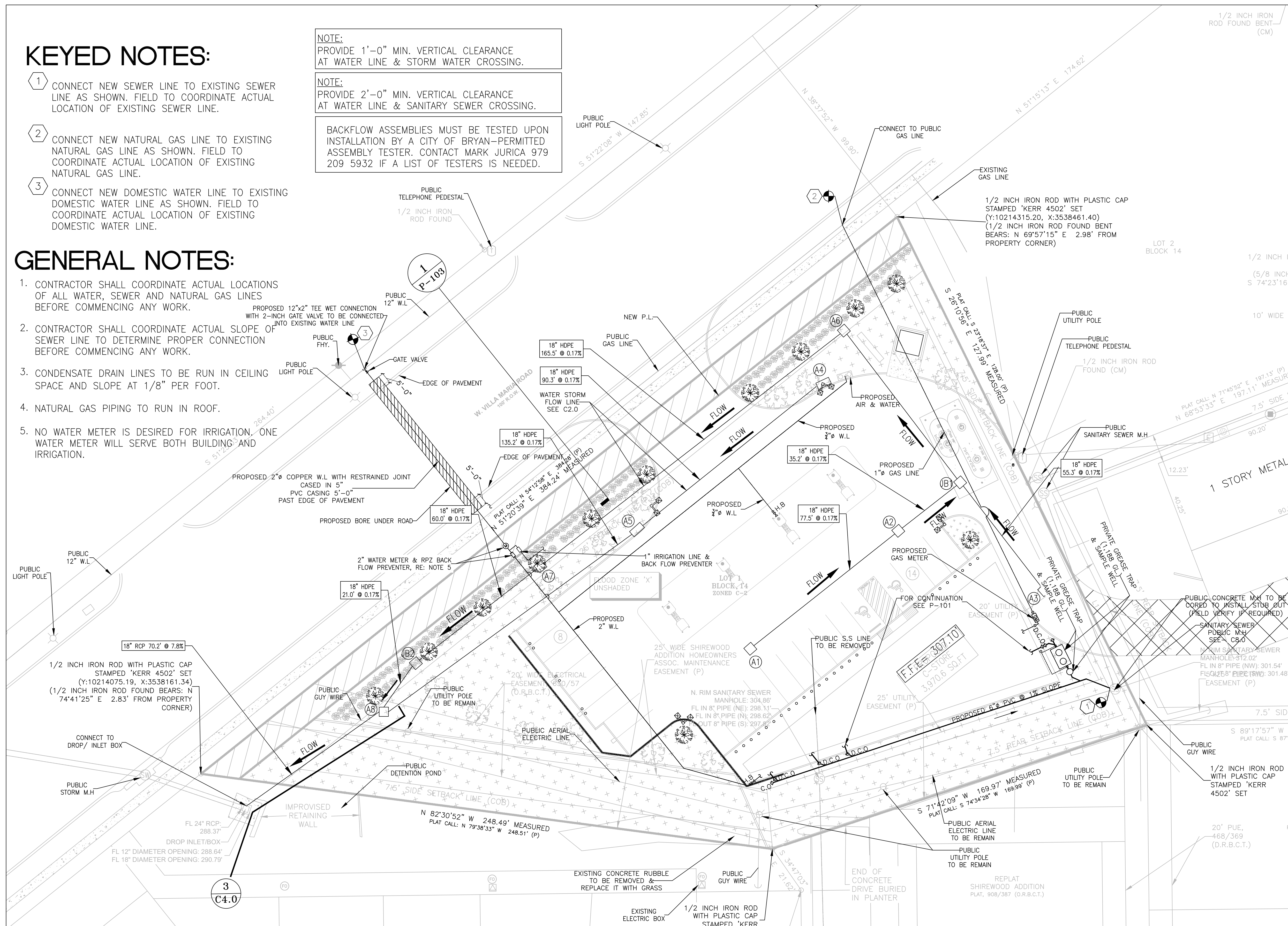
NOTE:
PROVIDE 1'-0" MIN. VERTICAL CLEARANCE AT WATER LINE & STORM WATER CROSSING.

NOTE:
PROVIDE 2'-0" MIN. VERTICAL CLEARANCE AT WATER LINE & SANITARY SEWER CROSSING.

BACKFLOW ASSEMBLIES MUST BE TESTED UPON INSTALLATION BY A CITY OF BRYAN-PERMITTED ASSEMBLY TESTER. CONTACT MARK JURICA 979 209 5932 IF A LIST OF TESTERS IS NEEDED.

GENERAL NOTES:

- CONTRACTOR SHALL COORDINATE ACTUAL LOCATIONS OF ALL WATER, SEWER AND NATURAL GAS LINES BEFORE COMMENCING ANY WORK.
- CONTRACTOR SHALL COORDINATE ACTUAL SLOPE OF SEWER LINE TO DETERMINE PROPER CONNECTION BEFORE COMMENCING ANY WORK.
- CONDENSATE DRAIN LINES TO BE RUN IN CEILING SPACE AND SLOPE AT 1/8" PER FOOT.
- NATURAL GAS PIPING TO RUN IN ROOF.
- NO WATER METER IS DESIRED FOR IRRIGATION. ONE WATER METER WILL SERVE BOTH BUILDING AND IRRIGATION.

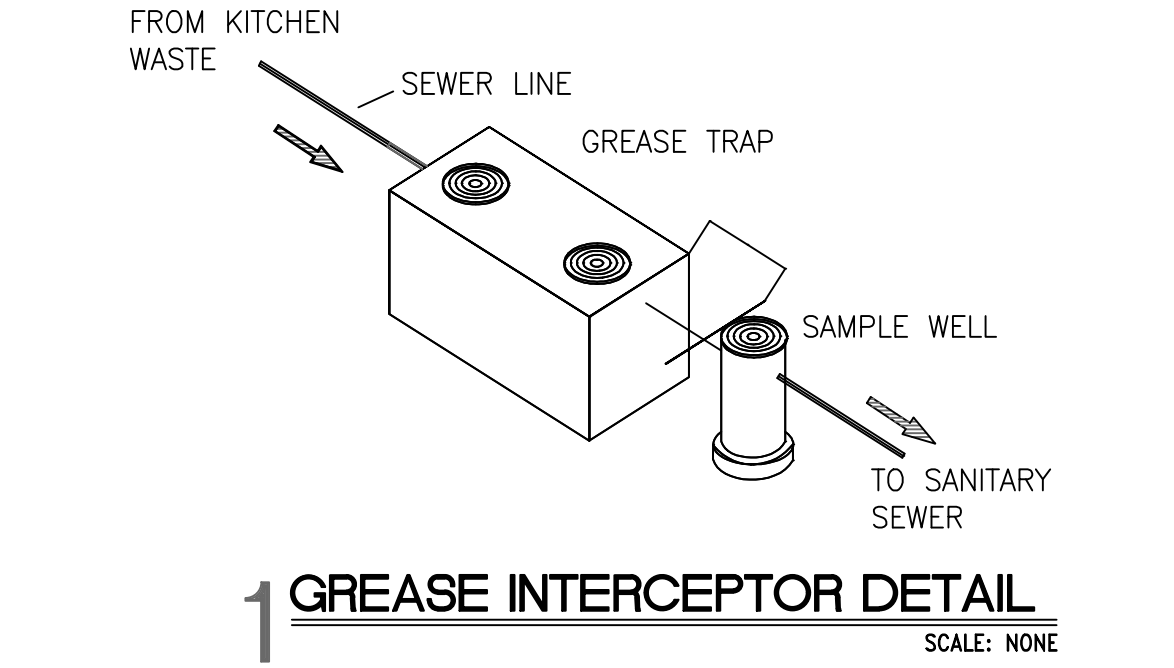


MODEL NO.	CAPACITY (GALLONS)	GREASE CAP. (LBS)	LENGTH (FT)	WIDTH (FT)	HEIGHT (FT)	INLET FL2	OUTLET FL2
GT-1250	1,250	2,900	14,650	9'-2"	5'-8"	6'-0"	4'-8"

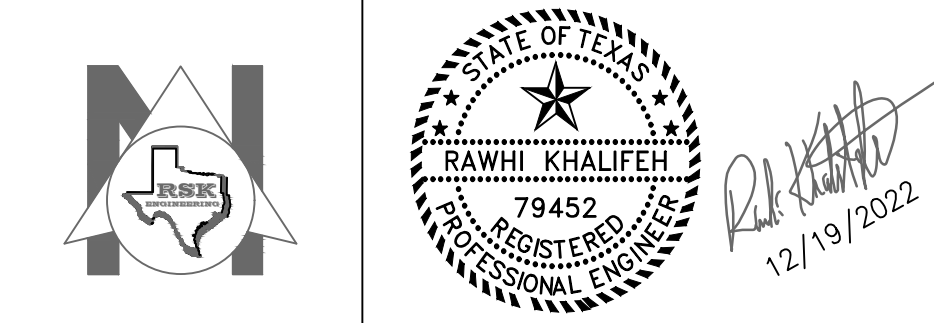
1000 GALLON-GREASE-TRAP
 Typical applications include commercial and industrial food service kitchens where excessive grease may interfere with the proper drainage of the sewer system. The grease interceptor is generally buried below grade for gravity flow sewer systems. A sample well is utilized on the outlet side for sampling by the local water authority.

Specifications
CONCRETE: Class 1 concrete with design strength of 4500 PSI at 28 days. Unit is of monolithic construction at floor, first stage of wall and baffle with sectional riser to required depth. (Monolithic baffle required, slide-in type is not acceptable)
REINFORCEMENT: Grade 60 reinforced with steel rebar conforming to ASTM A615 on required centers or equal.
C.I. CASTINGS: Manhole frames, covers or grates are manufactured of grey cast iron conforming to ASTM A48-76 Class 30. Manhole shall be nominal 24 inch diameter and be traffic duty.

Engineering Data
 The grease interceptor is structurally & hydraulically engineered to conform to regional plumbing codes recommended in most cities. Consult with local authorities for specific application requirements.
 Shop drawings shall include complete structural & buoyancy calculations certified by a licensed professional engineer.
 Consult with Park Equipment Company for exact excavation dimensions & shipping information.



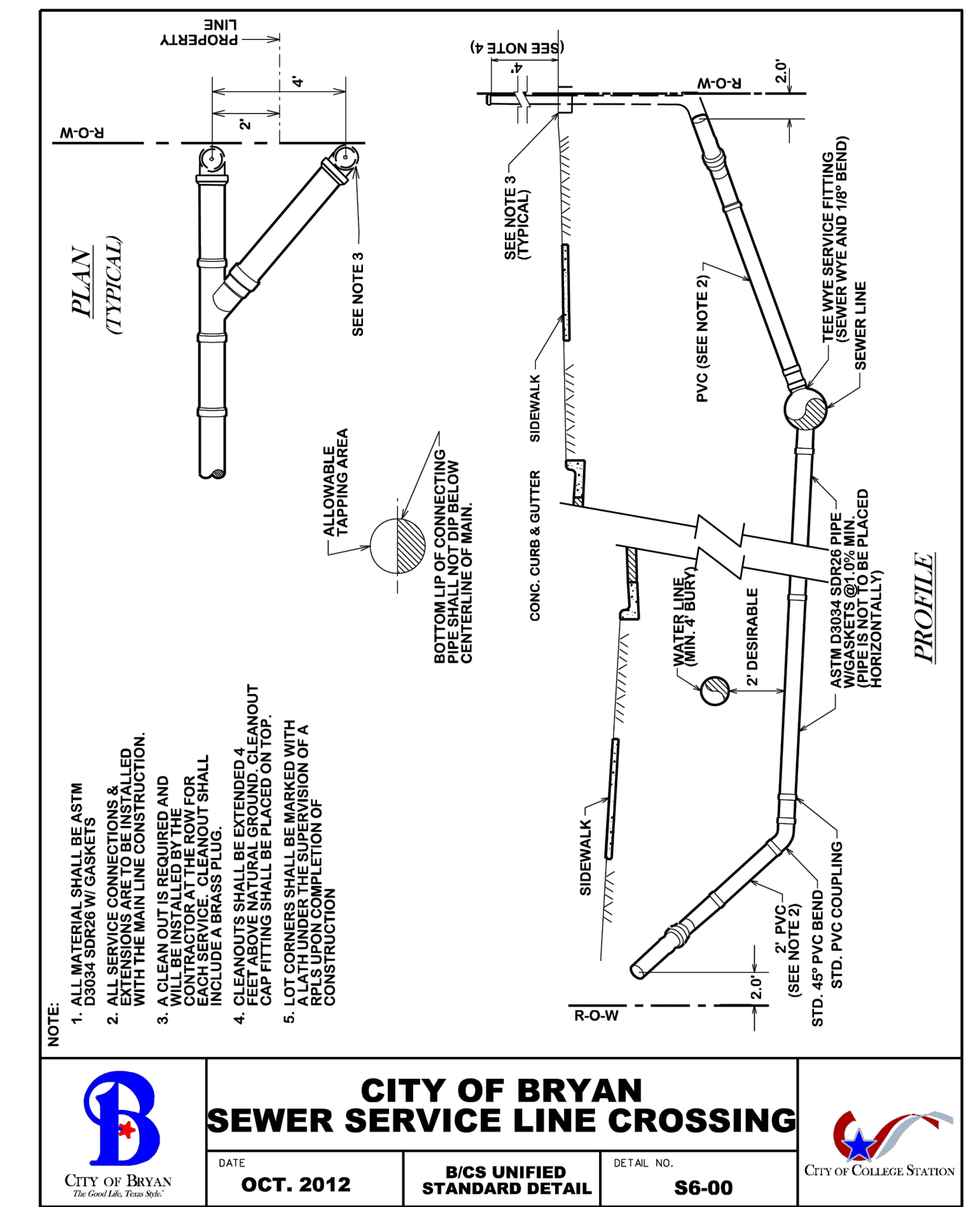
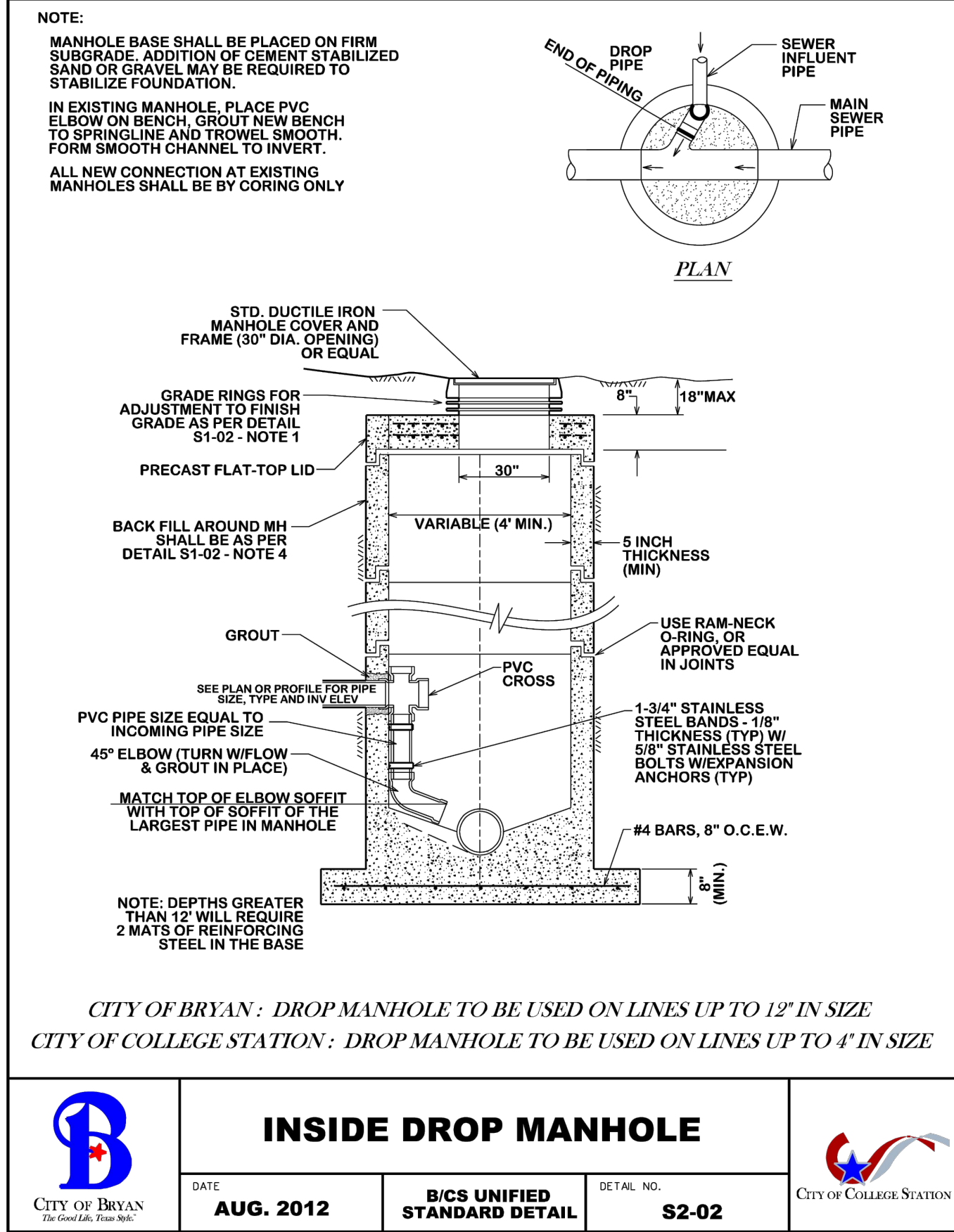
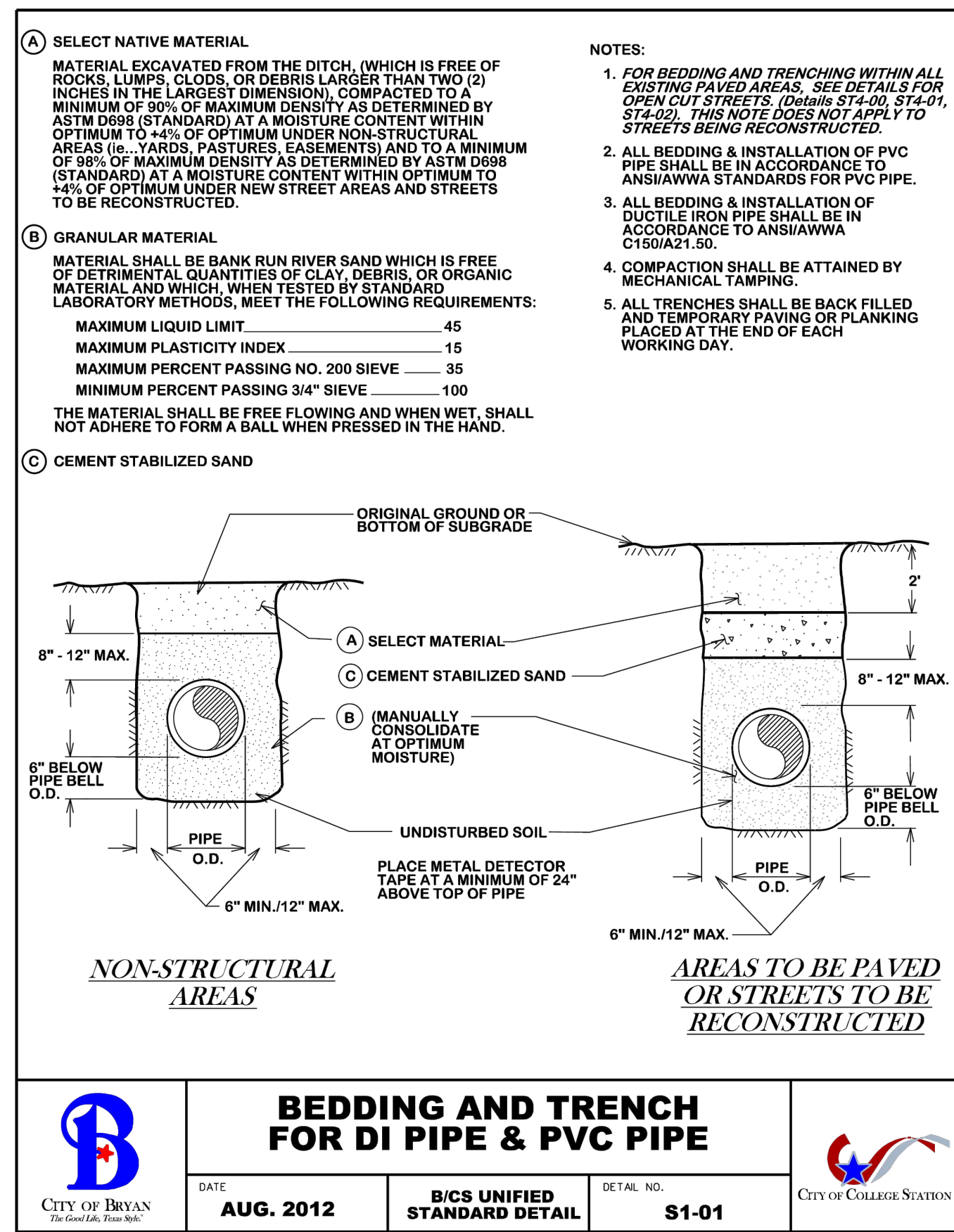
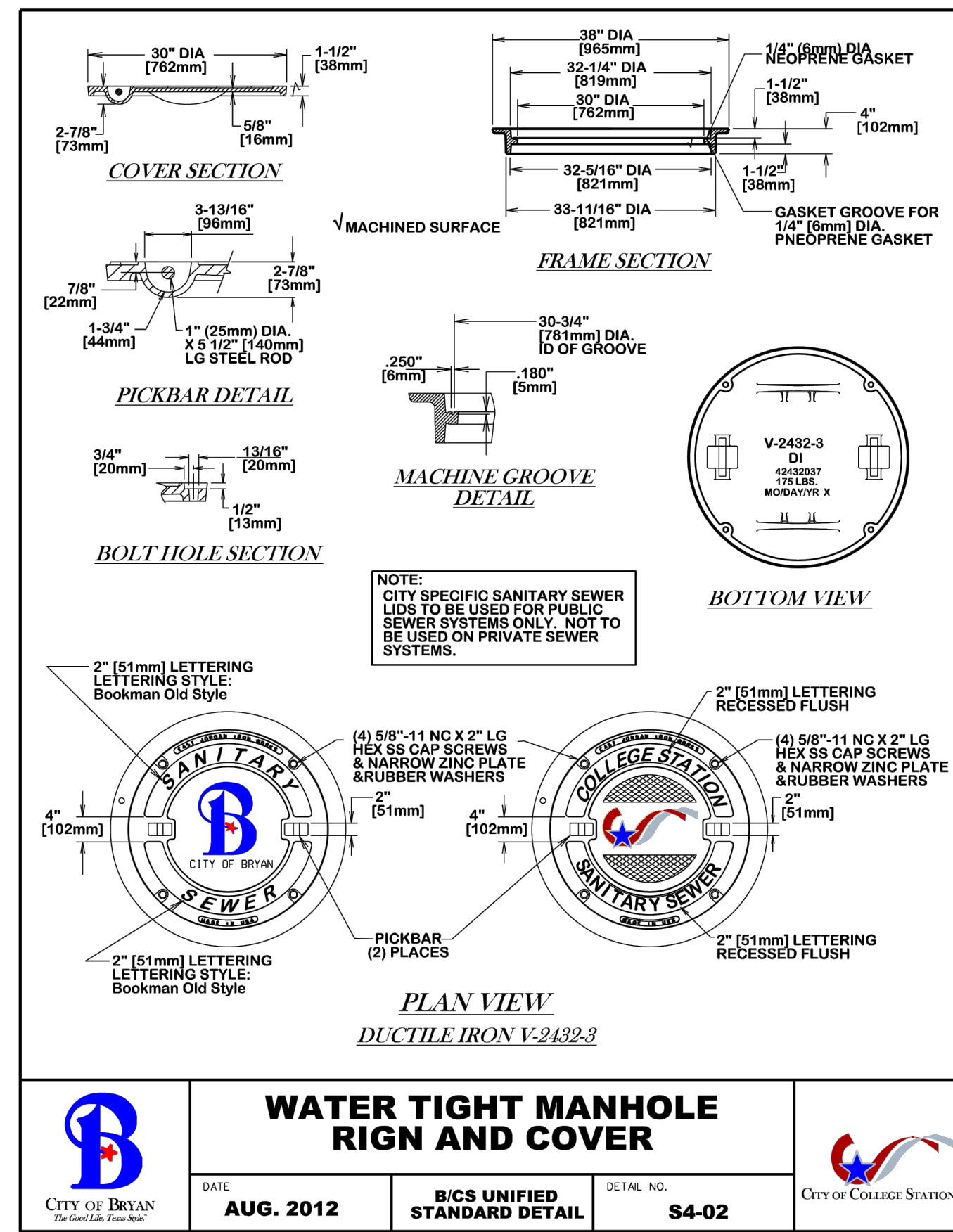
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 GRAPHIC SCALE



ISSUE HISTORY		REVISIONS	
DATE	ISSUED FOR	DESCRIPTION	
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-	-	-	-
-	-	-	-

RSK ENGINEERING
 ENGINEERS, CONSTRUCTION MANAGERS, PLANNERS
 11302 TANNER RD. TEL: (281) 580-4585
 HOUSTON, TEXAS 77041 FAX: (281) 580-4399
 FIRM # F-11211

VILLA MARIA GAS STATION
 1919 WEST VILLA MARIA ROAD
 BRYAN, TX 77807
UTILITY SITE PLAN
 DRAWN BY: BM DATE: 12-6-2021 SHEET: **C6.0**
 CHECKED BY: RSK PROJ. NO.: VR151003.317.4 Rev.0

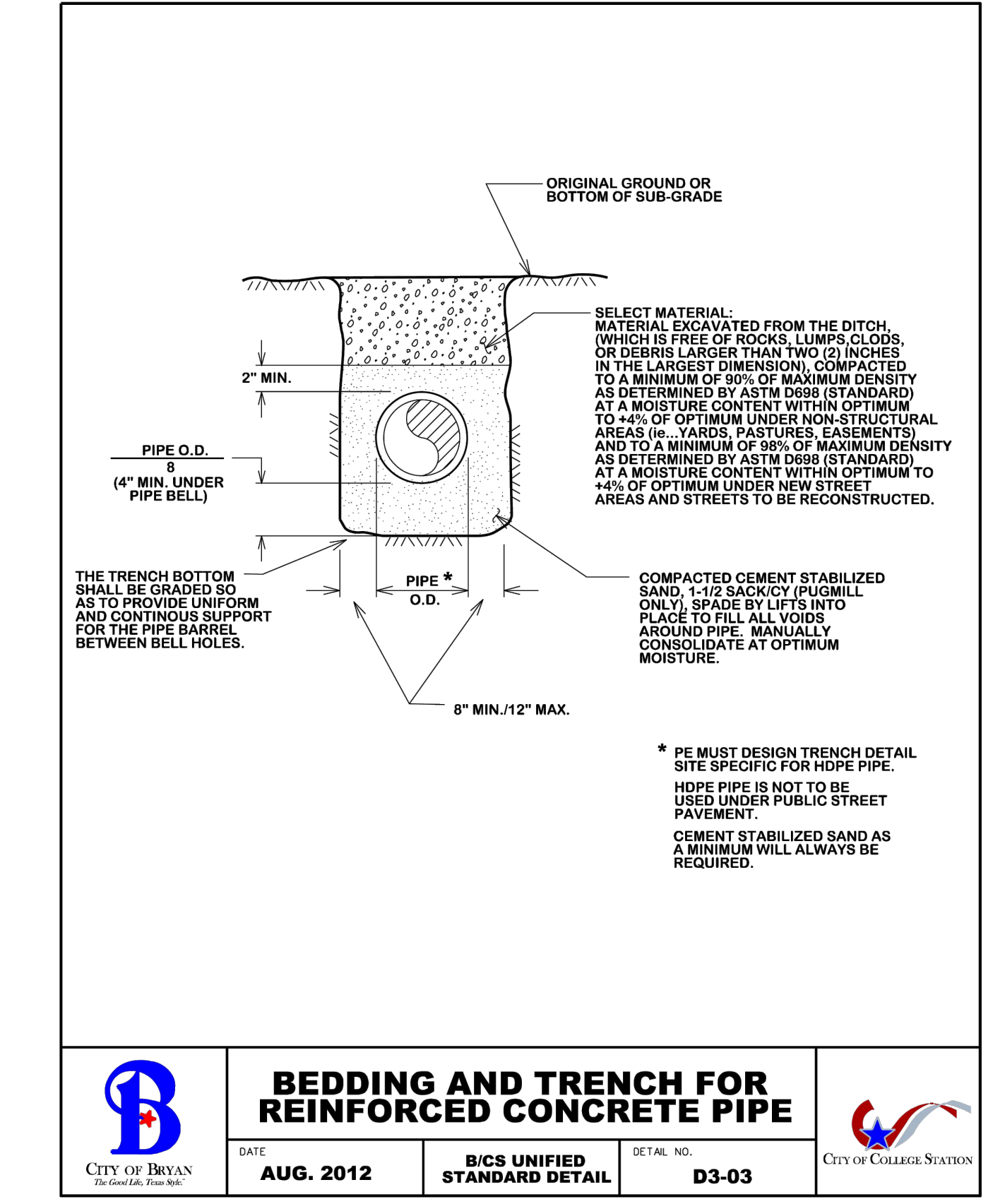
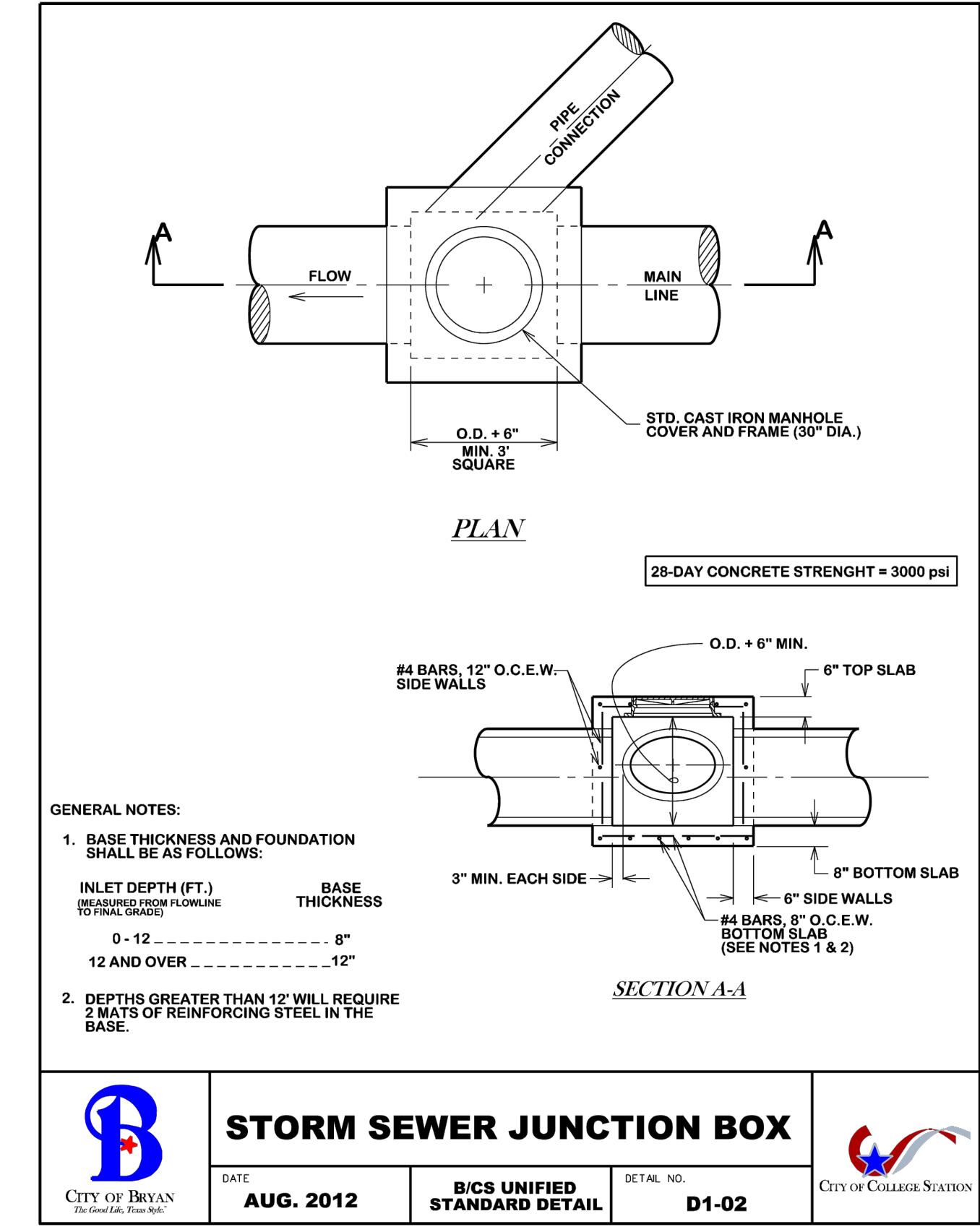
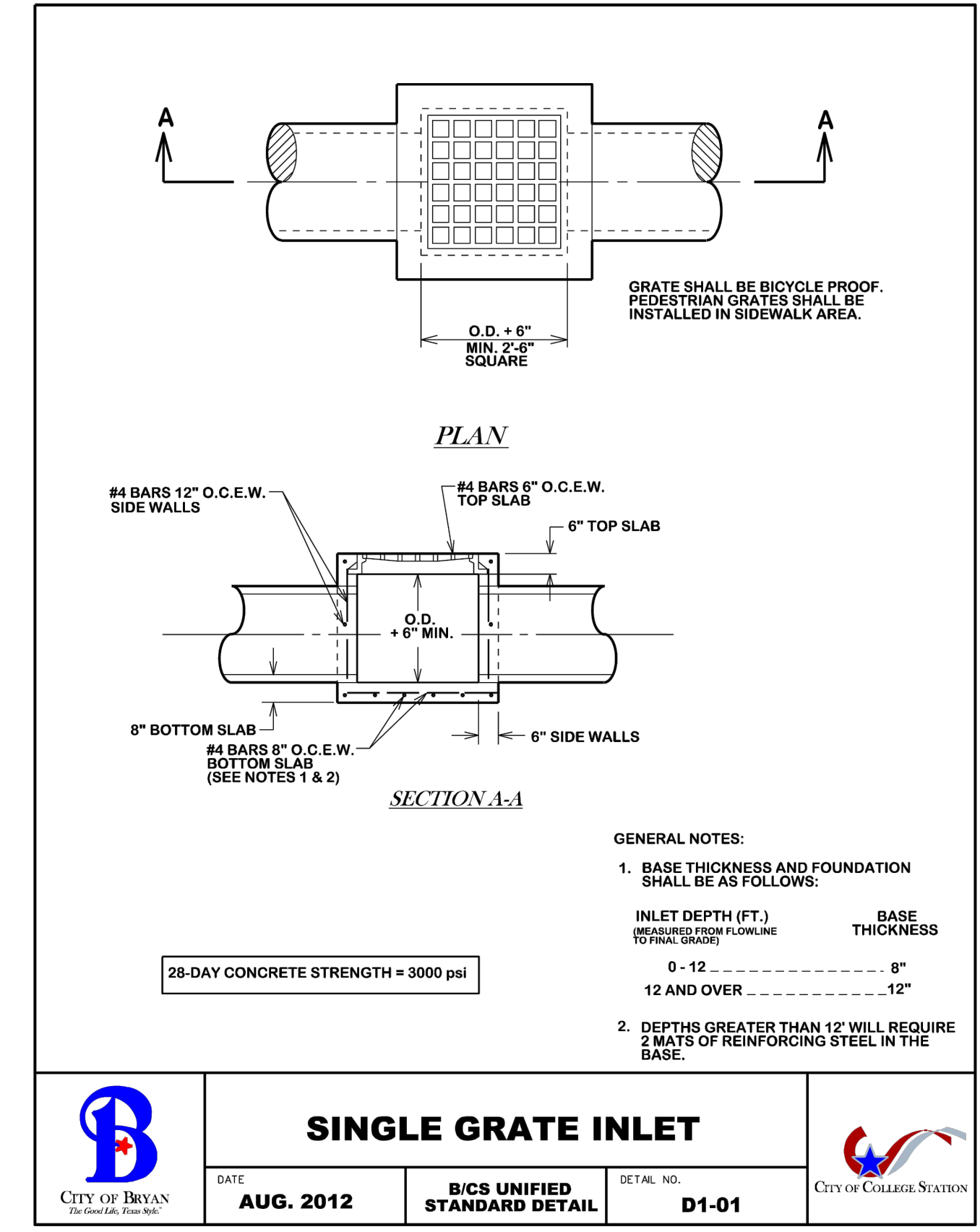
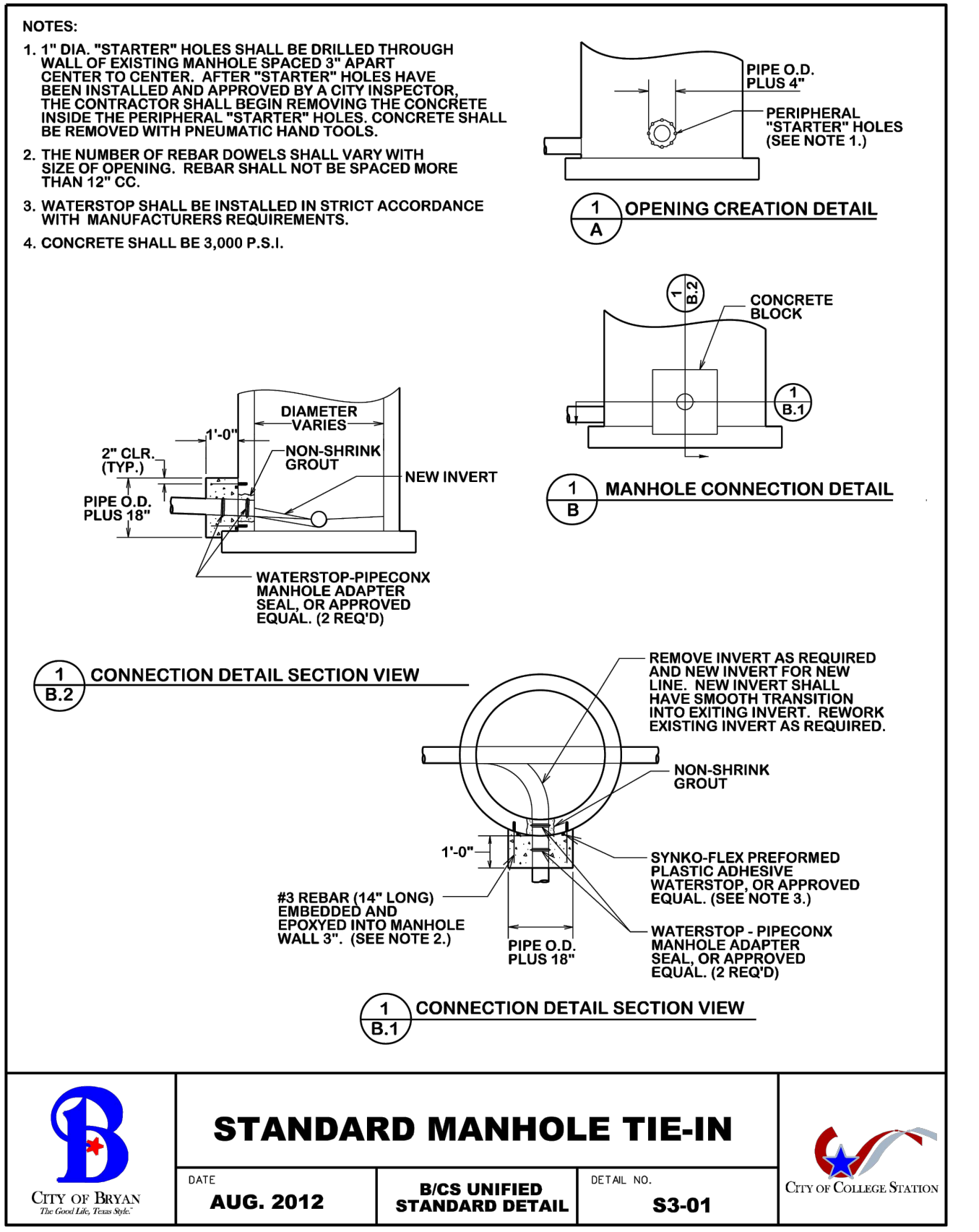


1 DETAIL WATER TIGHT MANHOLE RIGN AND COVER SCALE: NTS

2 DETAIL BEDDING AND TRENCH FOR DI PIPE & PVC PIPE SCALE: NTS

3 DETAIL INSIDE DROP MANHOLE SCALE: NTS

4 DETAIL CITY OF BRYAN SEWER SERVICE LINE CROSSING SCALE: NTS



5 DETAIL STANDARD MANHOLE TIE-IN SCALE: NTS

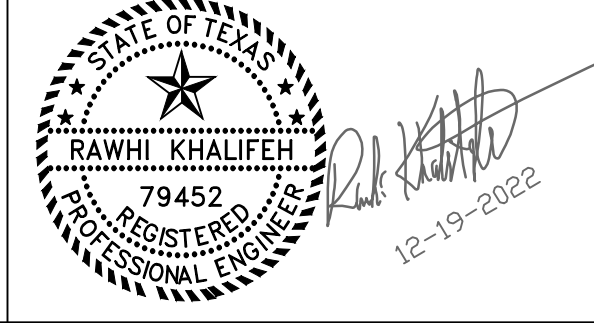
6 DETAIL SINGLE GRATE INLET SCALE: NTS

7 DETAIL STORM SEWER JUNCTION BOX SCALE: NTS

8 DETAIL BEDDING AND TRENCH FOR REINFORCED CONCRETE PIPE SCALE: NTS

OWNER NAME: ADDRESS: PHONE #: EMAIL:	APPLICANT NAME: RSK ENGINEERING ADDRESS: 11302 TANNER RD HOUSTON, TX 77041 PHONE #: 281-580-4585 EMAIL: RSKENGINEERING@GMAIL.COM
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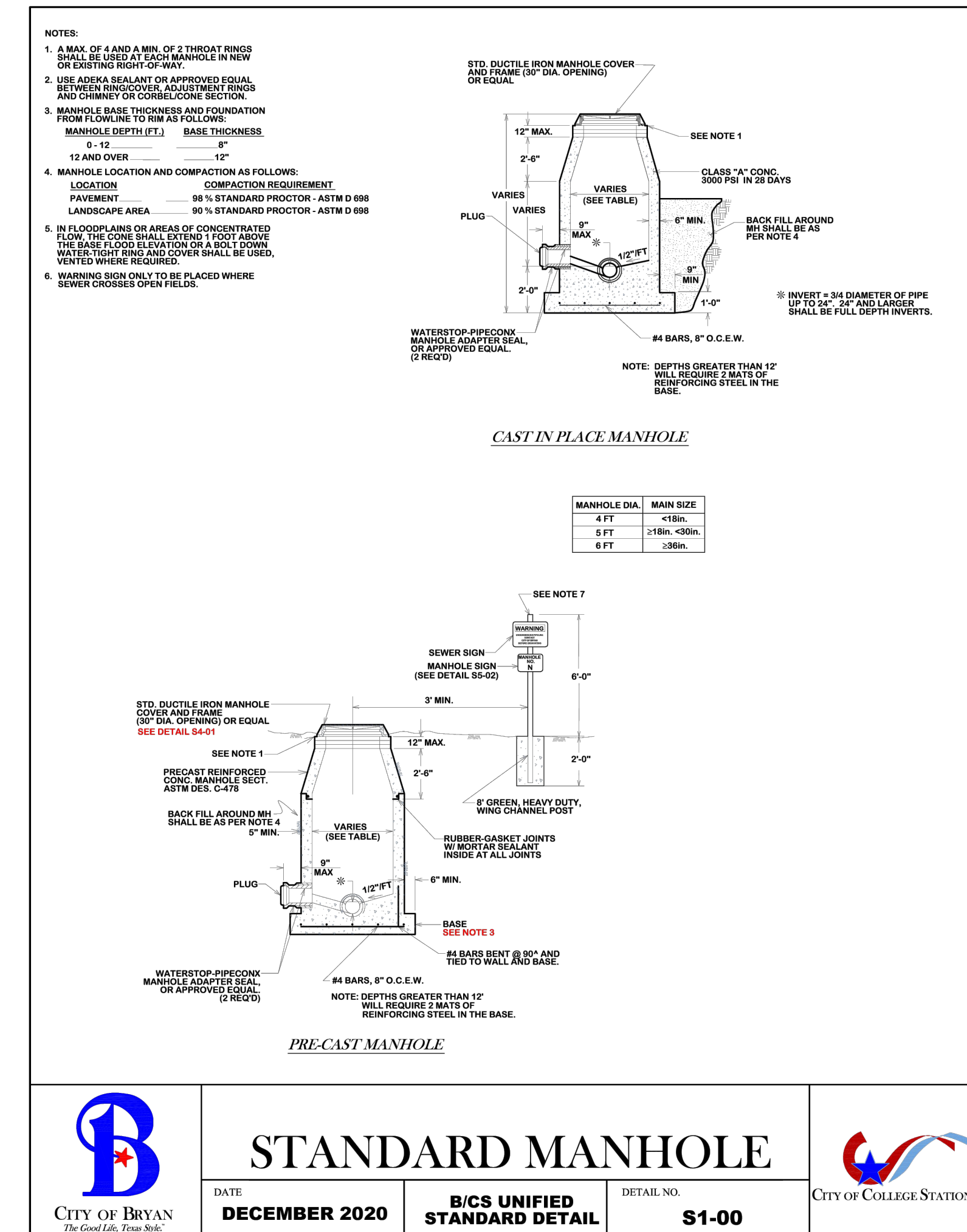
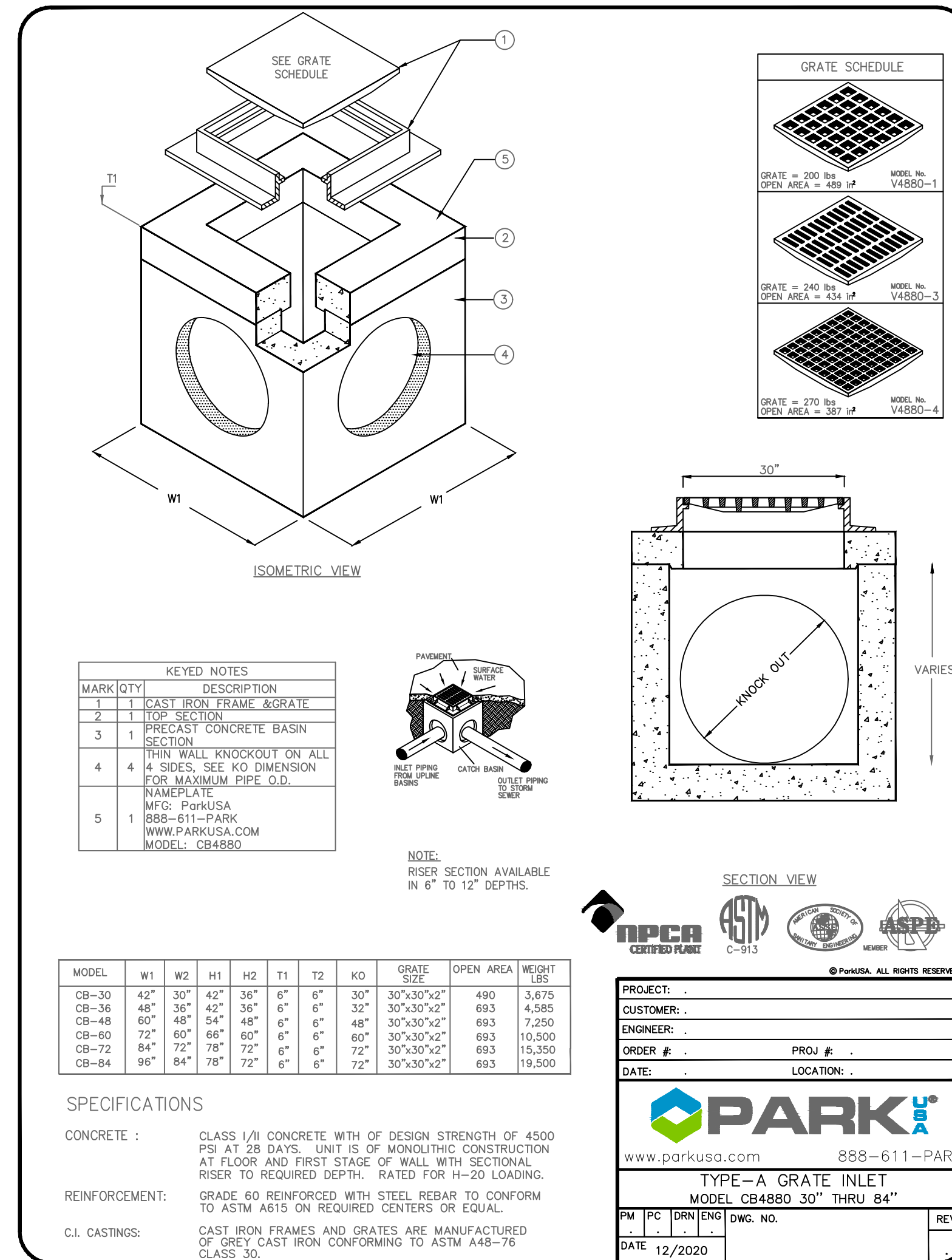
N.T.S.	GRAPHIC SCALE
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ISSUE HISTORY		REVISIONS	
DATE	ISSUED FOR	DESCRIPTION	
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-	-	-	-
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RSK ENGINEERING
 ENGINEERS, CONSTRUCTION MANAGERS, PLANNERS
 11302 TANNER RD
 HOUSTON, TEXAS 77041
 TEL. (281) 580-4585
 FAX (281) 580-4399
 FIRM # F-11211

VILLA MARIA GAS STATION 1919 WEST VILLA MARIA ROAD BRYAN, TX 77807		
SITE DETAILS		
DRAWN BY: BM	DATE: 10-14-2021	SHEET: C7.0
CHECKED BY: RSK	PROJ. NO.: VR15003.317.4	Rev:0



1 DETAIL STANDARD MANHOLE DETAILS
SCALE: NTS

N.T.S.
GRAPHIC SCALE

STATE OF TEXAS
RAWHI KHALIFEH
79452
REGISTERED PROFESSIONAL ENGINEER
12/19/2022

ISSUE HISTORY		REVISIONS	
DATE	ISSUED FOR	DESCRIPTION	
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RSK ENGINEERING
ENGINEERS, CONSTRUCTION MANAGERS, PLANNERS
11302 TANNER RD. TEL. (281) 580-4585
HOUSTON, TEXAS 77041 FAX (281) 580-4399
FIRM # F-11211

VILLA MARIA GAS STATION
1919 WEST VILLA MARIA ROAD
BRYAN, TX 77807
STANDARD MANHOLE DETAILS & GRATE INLET
DRAWN BY: BM DATE: 12-6-2021 SHEET: **C8.0**
CHECKED BY: RSK PROJ. NO.: VR151003.317.4 Rev: 0

GENERAL NOTES:

THE DESIGN GRAVITY LOADS ARE AS FOLLOWS:

- 1- BUILDING SUPPLIER TO PROVIDE ALL ACCESSORIES BOLTS,ANGLES,AND WELDS REQUIRED TO INSTALL BUILDING,WALLS AND ROOF.
2. THE FLOOR SYSTEM HAS BEEN DESIGN TO WITHSTAND A CONCENTRATED LOAD OF 2000 POUNDS, IN ACCORDANCE WITH SECTION 1604.3 OF IBC 2015.

3. METHODS, PROCEDURES, AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND INSURE THE INTEGRITY OF THE OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.

4. STRUCTURAL MEMBERS HAVE BEEN LOCATED AND DESIGN TO ACCOMMODATE THE MECHANICAL EQUIPMENT AND OPENINGS SPECIFIED BY THE MECHANICAL CONSULTANT, ANY SUBSTITUTION RESULTING IN REVISIONS TO THE STRUCTURE SHALL BE THE RESPONSIBILITY TO THE CONTRACTOR TO CORDINATE WITH THE STRUCTURAL ENGINEER.

5. THE GENERAL CONTRACTOR AND SUB-CONTRACTORS SHALL DETERMINE THE SCOPE OF THE STRUCTURAL WORK FROM THE CONTRACT DOCUMENT S TAKEN AS A WHOLE, THE STRUCTURAL DRAWINGS SHALL NOT BE CONSIDERED SEPARATELY FOR PURPOSES OF BIDDING THE STRUCTURAL WORK. DUE CONSIDERATION SHALL BE GIVEN TO OTHER STRUCTURAL WORK OR WORK RELATED TO THE STRUCTURE, INCLUDING NECESSARY COORDINATION DESCRIBED OR IMPLIED BY THE ARCHITECTURAL AND MECHANICAL DRAWINGS.

6. WRITTEN PERMISSION MUST BE OBTAINED FROM RSK ENGINEERING PRIOR TO THE REPRODUCTIVE USE OF THE STRUCTURAL CONTRACT DOCUMENTS IN ANY FASHION AS STRUCTURAL SHOP DRAWING DOCUMENTS.

7. SCALES NOTED ON THE DRAWING ARE FOR GENERAL INFORMATION ONLY. NO DIMENSIONAL INFORMATION SHALL BE OBTAINED BY DIRECT SCALING OF THE DRAWING.

8. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL RESULTING REVISIONS TO THE STRUCTURAL SYSTEM AS A RESULT OF ACCEPTANCE OF CONTRACTOR PROPOSED ALTERNATIVES OR SUBSTITUTIONS.

9. PRINCIPAL OPENINGS IN THE STRUCTURE ARE INDICATED ON THE CONTRACT DOCUMENTS. REFER TO THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBINGS DRAWINGS FOR SLEEVES, CURBS, INSERTS, ETC. NOT HEREIN INDICATED. OPENINGS IN SLABS WITH A MAXIMUM SIDE DIMENSION OR DIAMETER OF 12 INCHES OR LESS SHALL NOT REQUIRE ADDITIONAL FRAMING OR REINFORCEMENT, UNLESS NOTED OTHERWISE. THE LOCATION OF SLEEVES OR OPENINGS IN STRUCTURAL MEMBERS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW.

GENERAL NOTES: LIGHT-CAGE STEEL FRAMING

(THESE NOTES SHALL CONTROL UNLESS NOTED OTHERWISE ON PLANS AND DETAILS.)

MATERIALS & STANDARDS

- 1. STEEL FRAMING MEMBERS MUST CONFORM TO THE REQUIREMENTS OF AISI SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STRUCTURAL MEMBERS (AIS-86).
2. MATERIAL MUST CONFORM TO ONE OF THE FOLLOWING: ASTM A653, A792 OR A875.
3. MINIMUM YIELD STRENGTH (FY) = 33,000 PSI.
4. FRAMING MEMBERS SHALL BE HOT-DIP GALVANIZED (G60) OR HAVE EQUIVALENT CORROSION-RESISTANT COATING.
5. MATERIAL THICKNESS SHALL CONFORM TO THE FOLLOWING SCHEDULE:

Table with 3 columns: GAUGE, MILS, MIN. THICKNESS (INCHES). Rows include values for gauges 25, 22, 20, 18, 16, 14, 12.

CUTTING, NOTCHING & HOLE STIFFENING

- 1. FLANGES SHALL NOT BE CUT OR NOTCHED WITHOUT ENGINEER'S APPROVAL.
2. WEB HOLES SHALL BE NO CLOSER THAN 12 INCHES TO BEAM OR JOIST BEARING AND SHALL BE LIMITED TO THE FOLLOWING:
A. DEPTH: ONE-AND A HALF INCHES (1 1/2").
B. LENGTH: FOUR INCHES (4").
3. WEB HOLES CLOSER THAN 12" TO JOISTS BEARING OR 18" TO BEAM/HEADER BEARING SHALL BE REINFORCED WITH STIFFENER PLATE, EXTENDING 1" BEYOND ALL HOLE EDGES AND ATTACHED TO WEB WITH #8 SCREWS AT 1" SPACING ALONG THE EDGES.

FASTENERS

- 1. SCREWS:
A. ALL SCREWS SHALL BE SELF-DRILLING TAPPING SCREWS, WITH HEAD STYLES, THREADS AND POINT TYPES ACCORDING TO MANUFACTURER'S RECOMMENDATIONS FOR APPLICATION CONDITIONS.
B. USE #8 MINIMUM UNLESS OTHERWISE SPECIFIED.
C. MAINTAIN A MINIMUM CENTER-TO-CENTER OR EDGE DISTANCE OF THREE(3) DIAMETERS.
D. INSTALL SO THAT:
(i) A MINIMUM OF THREE (3) THREADS PENETRATE THROUGH THE STEEL;
(ii) SCREWS PENETRATE COMPONENTS WITHOUT CAUSING PERMANENT SEPARATION;
(iii) HOLES OR THREADS ARE NOT STRIPPED.
2. BOLTS:
A. ALL BOLTS SHALL CONFORM TO ASTM-A307, INSTALLED WITH STANDARD NUTS AND WASHERS.
B. MAINTAIN A MINIMUM DISTANCE OF 1 1/2 TIMES BOLT DIAMETER TO EDGE OF CONNECTED STEEL MEMBER.
C. BOLT HOLE DIAMETER SHALL NOT EXCEED BOLT DIAMETER BY MORE THAN 1/16".
3. ADHESIVE ANCHORS:
SHALL BE HILTI-HIT R5000 SERIES, OR APPROVED EQUAL.
4. POWDER-ACTUATED PINS:
SHALL BE HILTI X-EDON SERIES (0.145"Ø KNURLED-SHANK W/ DOME HEAD) OR APPROVED EQUAL.

STUD WALLS

- 1. ALL STUDS SHALL BE SPACED AT 16" O.C.
2. STUDS SHALL NOT BE SPLICED WITHOUT ENGINEER'S APPROVAL.
3. PROVIDE THE FOLLOWING NUMBER OF KING & JACK STUDS AT EACH SIDE OF OPENINGS:
UP TO 4'-0" OPENING 1 JACK STUD 1 KING STUD
4'-0" TO 8'-0" OPENING 2 JACK STUDS 2 KING STUDS
8'-0" TO 12'-0" OPENING 3 JACK STUDS 3 KING STUDS.

CONSTRUCTION GUIDELINES

- 1. CUTTING METHODS WHICH CAUSE SIGNIFICANT HEATING OF THE STEEL OR DAMAGE TO THE COATINGS SHALL ONLY BE USED WHEN THE GALVANIZED COATING IS REPAIRED.
2. A SILL SEALER, OR EQUIVALENT, SHALL BE PROVIDED BETWEEN THE UNDERSIDE OF THE WALL WHEN FASTENED DIRECTLY TO CONCRETE.
3. PLUMBING LINES:
COPPER AND PLASTIC PIPES SHALL BE SEPARATED FROM THE STEEL FRAMING BY NON-CONDUCTIVE GROMMETS OR OTHER EQUIVALENT MEANS.
4. ELECTRICAL WIRING:
A GROMMET BUSHING, CONDUIT OR EQUIVALENT WIRE PROTECTION SHALL BE INSTALLED IN THE SERVICE HOLE OR PUNCH-OUT BEFORE ELECTRICAL WIRING IS PULLED THROUGH.

SPECIFICATIONS: STRUCTURAL & MISC. STEEL

(THESE NOTES SHALL CONTROL UNLESS NOTED OTHERWISE ON PLANS AND DETAILS.)

EXECUTION (CONT'D)

- 3.04 ERECTION TOLERANCES:
A. MAXIMUM VARIATION FROM PLUMB: 1/4 INCH PER STORY, NON-CUMULATIVE.
B. MAXIMUM OFFSET FROM TRUE ALIGNMENT: 1/4 INCH.
C. MAXIMUM OUT-OF-POSITION: 1/4 INCH.

SPECIFICATIONS: CORRUGATED STEEL DECK

(THESE NOTES SHALL CONTROL UNLESS NOTED OTHERWISE ON PLANS AND DETAILS.)

GENERAL

- 1.01 STANDARDS:
A. WORK SHALL CONFORM TO THE LATEST EDITIONS OF THE FOLLOWING STANDARDS AND CODES:
ASTM A 653 --- STANDARD SPECIFICATION FOR STEEL SHEET, ZINC-COATED (GALVANIZED) BY HOT-DIP PROCESS.
ASTM A 1008 --- STANDARD SPECIFICATION FOR STEEL SHEET, COLD-ROLLED, CARBON, STRUCTURAL, HIGH STRENGTH LOW-ALLOY AND HIGH-STRENGTH LOW-ALLOY WITH IMPROVED FORMABILITY.
STEEL DECK INSTITUTE (SDI) --- CODE OF RECOMMENDED PRACTICE AND BASIC DESIGN SPECIFICATIONS.
1.02 SUBMITTALS:
A. SHOP DRAWINGS: INDICATE DECKING PLAN, SUPPORT LOCATIONS, OPENINGS AND REINFORCEMENT THEROF, PROJECTIONS, PERTINENT DETAILS AND ACCESSORIES.

PRODUCTS

- 2.01 METAL DECK:
A. UNCOATED : CONFORM TO ASTM A 1008, STRUCTURAL QUALITY GRADE AND MINIMUM YIELD STRENGTH : 33,000 PSI.
B. GALVANIZED : CONFORM TO ASTM A 653, G60 MINIMUM COATING CLASS. MINIMUM YIELD STRENGTH : 33,000 PSI.
C. DECKS SHALL BE VULCRAFT, CORRUGATED STEEL DECK WITH THE FOLLOWING TYPE, GAGE AND PHYSICAL PROPERTIES (PER FOOT OF WIDTH):
ROOF DECK GAGE: 22
MOMENT OF INERTIA: 0.12 IN 4/12 FT
SECTION MODULUS: 0.111 IN 3/12 FT
MINIMUM DEPTH: 1-1/2 IN (NOMINAL)
USE *VULCRAFT 1.5F22 OR APPROVED EQUAL.
2.02 ACCESSORIES:
A. WELDING MATERIAL: AWS D1.1
B. TOUCH-UP PRIMER: ZINC CHROMATE TYPE
C. WELD WASHERS: MILD STEEL, UNCOATED
D. FASTENERS: HARDENED STEEL, GALVANIZED, SELF-TAPPING
2.03 FABRICATION:
A. MINIMUM METAL THICKNESS AND NOMINAL HEIGHT: AS SHOWN ON DRAWINGS
B. SHEET WIDTH: 36"
C. SPAN DESIGN: MULTIPLE (3 OR MORE)
D. SIDE JOINTS: LAPPED

EXECUTION

- 3.01 INSTALLATION:
A. ERECT METAL DECKING IN ACCORDANCE WITH SDI DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS, ROOF DECKS AND WITH MANUFACTURERS INSTRUCTIONS.
B. BEAR DECKING ON STEEL SUPPORTS WITH 1-1/2" INCH MINIMUM BEARING. ALIGN AND LEVEL.
C. FASTEN DECK TO STEEL SUPPORT MEMBERS AT ENDS AND INTERMEDIATE SUPPORTS WITH FUSION WELDS THROUGH WELD WASHERS AT 12" O.C. MAXIMUM, PARALLEL WITH DECK FLUTE AND AT EVERY OTHER TRANSVERSE FLUTE.
D. MINIMUM WELD SIZE: 5/8 INCH PUDDLE WELD. WELD IN ACCORDANCE WITH ASW D1.1.
E. FASTEN MALE/FEMALE SIDE LAPS AT 24" O.C. MAXIMUM WITH #12 SELF-TAPPING GALVANIZED SCREWS.
F. REINFORCE STEEL DECK OPENINGS FROM 6 TO 18 INCHES IN SIZE WITH 2x2x1/4 INCH STEEL ANGLES, UNLESS NOTED OTHERWISE. PLACE ANGLES PERPENDICULAR TO FLUTES; EXTEND MINIMUM TWO FLUTES BEYOND EACH SIDE OF OPENING AND FUSION WELD TO DECK AT EACH FLUTE.
G. INSTALL 6 INCH MINIMUM WIDE SHEET STEEL COVER PLATES, OF THE SAME THICKNESS AS DECKING, WHERE DECK CHANGES DIRECTION. FUSION WELD TO DECK AT EACH FLUTE.
H. WHERE REQUIRED, AND NOT SHOWN ON DRAWINGS, INSTALL WET CONCRETE STOPS AT DECK EDGES UPTURNED TO TOP SURFACE OF SLAB.
I. INSTALL SHEET STEEL CLOSURES AND ANGLES FLASHINGS TO CLOSE OPENINGS BETWEEN DECK AND WALLS, COLUMNS, AND OPENINGS.
J. IMMEDIATELY AFTER WELDING GALVANIZED DECK AND OTHER METAL COMPONENTS IN POSITION, WELDS, WELD BLOOMS, BURNED AREAS, AND DAMAGED SURFACE SHALL BE TOUCH-UP GALVANIZED.
3.02 CONSTRUCTION GUIDELINES:
A. DO NOT USE DECK UNITS AS A WORKING PLATFORM OR STORAGE AREA UNTIL DECK UNITS ARE PERMANENTLY ATTACHED IN FINAL POSITION.
B. CONSTRUCTION LOADS MUST NOT EXCEED LOAD CARRYING CAPACITY OF DECK, AS ESTABLISHED BY DECK MANUFACTURER.

GENERAL NOTES: OPEN-WEB JOISTS

(THESE NOTES SHALL CONTROL UNLESS NOTED OTHERWISE ON PLANS AND DETAILS.)

- 1. DESIGN, FABRICATION AND ERECTION OF OPEN-WEB JOISTS SHALL CONFORM TO SPECIFICATIONS OF THE STEEL JOIST INSTITUTE(SJI).
2. UNLESS SHOWN OTHERWISE, JOISTS SHALL BE WELDED TO SUPPORTING BEAMS WITH A 3/16" FILLET WELD, 1-1/2" LONG, ON EACH SIDE OF EACH END.
3. PROVIDE BRIDGING FOR JOISTS AS SHOWN ON DRAWINGS AND IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF THE STEEL JOIST INSTITUTE.

SPECIFICATIONS: STRUCTURAL & MISC. STEEL

(THESE NOTES SHALL CONTROL UNLESS NOTED OTHERWISE ON PLANS AND DETAILS.)

GENERAL

1.01 REFERENCES:

- ANSI A14.3 -- AMERICAN NATIONAL STANDARD FOR LADDERS --- FIXED --- SAFETY REQUIREMENTS.
ASTM A 36 -- STANDARD SPECIFICATION FOR CARBON STRUCTURAL STEEL.
A 53 -- STANDARD SPECIFICATION FOR PIPE, STEEL, BLACK AND HOT-DIPPED, ZINC-COATED, WELDED AND SEAMLESS.
A 123 -- STANDARD SPECIFICATION FOR ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS.
A 153 -- STANDARD SPECIFICATION FOR ZINC COATING (HOT-DIP) ON IRON AND STEEL HARDWARE.
A 325 -- STANDARD SPECIFICATION FOR STRUCTURAL BOLTS, STEEL, HEAT TREATED, 120/105 KSI MINIMUM TENSILE STRENGTH.
A 500 -- STANDARD SPECIFICATION FOR COLD-FORMED WELDED AND SEAMLESS CARBON STEEL STRUCTURAL TUBING IN ROUNDS AND SHAPES.
A 992 -- STANDARD SPECIFICATION FOR STRUCTURAL STEEL SHAPES.
AWS A 2.4 -- AMERICAN SYMBOLS FOR WELDING, BRAZING, AND NONDESTRUCTIVE EXAMINATION; AMERICAN WELDING SOCIETY.
A 5.1 -- SPECIFICATION FOR CARBON STEEL ELECTRODES FOR SHIELDED METAL ARC WELDING.
A 5.5 -- SPECIFICATION FOR LOW-ALLOY STEEL ELECTRODES FOR SHIELDED METAL ARC WELDING.
D 1.1 -- STRUCTURAL WELDING CODE - STEEL; AMERICAN WELDING SOCIETY.

1.02 DETAILING:

- A. ALL DETAILING SHALL BE IN CONFORMANCE WITH THE STANDARDS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), LATEST EDITION.
B. UNLESS NOTED OTHERWISE, PROVIDE FRAMED BEAM CONNECTIONS IN ACCORDANCE WITH AISC. PART 10, TO DEVELOP THE FULL SHEAR STRENGTH OF SUPPORTED BEAM.
C. CONNECTIONS SHALL BE SHOP-WELDED AND FIELD-BOLTED UNLESS SHOWN OTHERWISE IN DRAWINGS.
D. IF CONNECTION BOLTS ARE IN SINGLE SHEAR, BOLTS SHALL BE PLACED IN TWO VERTICAL ROWS AT EACH APPLICABLE CONNECTED MEMBER.

1.03 SUBMITTALS:

- A. SHOP DRAWINGS: INDICATE PROFILES, SIZES, CONNECTION ATTACHMENTS, REINFORCING, ANCHORAGE, SIZE AND TYPE OF FASTENERS, AND ACCESSORIES. INCLUDE ERECTION DRAWINGS, ELEVATIONS, AND DETAILS WHERE APPLICABLE.
1. INDICATE DETAILED CONNECTIONS USING STANDARD AWS A2.4, WELDING SYMBOLS. INDICATE NET WELD LENGTH.
B. WELDER'S CERTIFICATES: SUBMIT CERTIFICATION FOR WELDERS EMPLOYED ON THE PROJECT, VERIFYING AWS QUALIFICATION WITHIN THE PREEVIOUS 12 MONTHS.

PRODUCTS

2.01 MATERIALS-STEEL:

- STEEL SHAPES: ASTM A 992 GR 50, AS NOTED ON DRAWINGS (FY = 50 KSI).
PLATES: ASTM A 36 (FY = 36 KSI).
TUBING: ASTM A 500, GRADE B, COLD-FORMED STRUCTURAL TUBING (FY = 46 KSI).
PIPE: ASTM A 53, GRADE B SCHEDULE 40, BLACK FINISH (FY = 35 KSI).
BOLTS, NUTS, WASHERS: ASTM A 325 GALVANIZED TO ASTM A 153 FOR GALVANIZED COMPONENTS.
WELDING MATERIALS: AWS A 5.1 AND A 5.5 - E70XX ELECTRODES.
SHOP AND TOUCH-UP PRIMER: SSPC - PAINT 15, TYPE 1 - RED OXIDE.
TOUCH-UP PRIMER FOR GALVANIZED SURFACES: SSPC - PAINT 20, TYPE 1 - INORGANIC.
HOT-DIPPED GALVANIZED WHERE CALLED FOR ON DRAWINGS OR IN ALL EXPOSED CONDITIONS.

2.02 FABRICATION:

- A. FIT AND SHOP ASSEMBLY ITEMS IN LARGEST PRACTICAL SECTIONS, FOR DELIVERY TO SITE.
B. FABRICATE ITEMS WITH JOINTS TIGHTLY FITTED AND SECURED.
C. CONNECTIONS SHALL BE SHOP-WELDED AND FIELD-BOLTED UNLESS SHOWN OTHERWISE ON DRAWINGS.
D. GRIND EXPOSED JOINTS FLUSH AND SMOOTH WITH ADJACENT FINISH SURFACES. MAKE EXPOSED JOINTS BUTT TIGHT, FLUSH, AND HAIRLINE. EASE EXPOSED EDGES TO SMALL UNIFORM RADII.
2.03 FINISHES WITH ONE COAT:

- A. PRIME PAINT ALL STEEL ITEMS, WITH THE FOLLOWING EXCEPTIONS:
1. GALVANIZED ITEMS TO BE EMBEDDED IN CONCRETE OR MASONRY, AND ITEMS SPECIFIED FOR GALVANIZED FINISH.
2. SURFACES IN DIRECT CONTACT WITH CONCRETE, WHERE FIELD WELDING IS REQUIRED, AND ITEMS TO BE COVERED WITH SPRAYED FIREPROOFING.
B. PREPARE SURFACES TO BE PRIMED IN ACCORDANCE WITH SSPC-SP2.
C. CLEAN SURFACES OF RUST, SCALE, GREASE, AND FOREIGN MATTER PRIOR TO FINISHING.
D. PRIME PAINTING: ONE COAT.
E. GALVANIZING OF STRUCTURAL MEMBERS: GALVANIZE AFTER FABRICATION TO ASTM A 123. PROVIDE MINIMUM 1.3 OZ./SQ. FT GALVANIZED COATING.
F. GALVANIZING OF NON-STRUCTURAL ITEM: GALVANIZE AFTER FABRICATION TO ASTM A 123. PROVIDE MINIMUM 1.3 OZ./SQ. FT GALVANIZED COATING.

2.04 FABRICATION TOLERANCES:

- A. SQUARENESS: 1/8 INCH MAXIMUM DIFFERENCE IN DIAGONAL MEASUREMENTS.
B. MAXIMUM OFFSET BETWEEN FACES: 1/16 INCH.
C. MAXIMUM MISALIGNMENT OF ADJACENT MEMBERS: 1.16 INCH.
D. MAXIMUM BOW: 1/8 INCH IN 48 INCHES.
E. MAXIMUM DEVIATION FROM PLANE: 1/16 INCH IN 48 INCHES.

EXECUTION

3.01 EXAMINATION:

- A. VERIFY THAT FIELD CONDITIONS ARE ACCEPTABLE AND ARE READY TO RECEIVE WORK.

3.02 PREPARATION:

- A. CLEAN AND STRIP PRIMED STEEL ITEMS TO BARE METAL WHERE SITE WELDING IS REQUIRED.
B. SUPPLY SETTING TEMPLATES FOR STEEL ITEMS REQUIRED TO BE CAST INTO CONCRETE OR EMBEDDED IN MASONARY.

3.03 INSTALLATION:

- A. INSTALL ITEMS PLUMB AND LEVEL, ACCURATELY FITTED, FREE FROM DISTORTION OR DEFECTS.
B. PROVIDE FOR ERECTION LOADS, AND FOR SUFFICIENT TEMPORARY BRACING, TO MAINTAIN TRUE ALIGNMENT UNTIL COMPLETION OF ERECTION AND INSTALLATION OF PERMANENT ATTACHMENTS. (NOTE: STEEL FRAMING SYSTEM IS NOT DESIGNED FOR STABILITY DURING CONSTRUCTION, UNTIL ALL COMPONENTS ARE INSTALLED. TEMPORARY BRACING AND SHORING IS STRICTLY THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.)
C. INSTALLATION OF A 325 BOLTS SHALL BE BY TURN-OF-THE-NUT METHOD, USING PROPERLY CALIBRATED TORQUE WRENCHES.
D. PERFORM FIELD WELDING IN ACCORDANCE WITH AWS D1.1. WELDS NOT CALLED OUT ON DRAWINGS SHALL BE 1/4 INCH CONTINUOUS FILLET WELDS.
E. OBTAIN APPROVAL PRIOR TO SITE CUTTING OR MAKING ADJUSTMENTS NOT SCHEDULED.
F. NO FIELD BURNING OR CUTTING OF HOLES IS ALLOWED IN ANY PART OF ANY STRUCTURAL MEMBER, UNLESS AUTHORIZED, IN WRITING, BY THE ENGINEER-OF-RECORD.
G. AFTER ERECTION, PRIME WELDS, ABRASIONS, AND SURFACES NOT SHOP PRIMED OR GALVANIZED, EXCEPT SURFACES TO BE IN CONTACT WITH CONCRETE.

GENERAL CONCRETE NOTES:

DESIGN LOADS (IBC 2015)

ULTIMATE DESIGN WIND SPEED 130 MPH, RISK CATEGORY II

- 1. MINIMUM CONCRETE COVER PROTECTION FOR Reinforcement BARS SHALL BE AS FOLLOWS: (SEE ACI 318 SECT I ON 7.7 FOR CONO I TIONS NOT NOTED)
FOOTINGS DRILLED 3 INCHES SIDES & BOTTOM GRADE BEAMS:
TOP..... 1-1/2 INCHES
BOARD FORMED SIDES 1-1/2 INCHES
EARTH FORMED SIDES 3 INCHES
BOTTOM..... 3 INCHES
SLABS ON GRADE..... 1-1/2 INCHES (TOP)
PILASTERS & PLINTHS..... 2 INCHES
SLABS ON METAL FORMS 3/4 INCHES (TOP)
PROVIDE STANDARD BAR CHAIRS AND SPACERS AS REQUIRED TO MAINTAIN CONCRETE PROTECTION SPECIFIED.

- 2. LIVE LOADS ROOF 20PSF
DEAD LOAD ROOF 16 PSF
FLOOR 100 PSF

3. CONCRETE REINFORCEMENT BARS SHALL CONFORM TO ASTM A615, GRADE 60. REINFORCEMENT BARS SHALL NOT BE TACK WELDED, WELDED, HEATED OR CUT UNLESS INDICATE ON THE CONTRACT DOCUMENTS OR REVIEWED BY THE STRUCTURAL ENGINEER.

4. REINFORCEMENT DESIGNATED AS "CONTINUOUS" SHALL LAP 50 BAR DIAMETER AT SPLICES UNLESS NOTED OTHERWISE. REINFORCEMENT BAR SPLICES IN GRADE BEAMS SHALL BE LOCATED AT THE CENTERLINE OF SUPPORTS FOR BOTTOM BARS AND AT MIDSPAN FOR TOP BARS. PROVIDE STANDARD ACI HOOKS FOR TOP AND BOTTOM BARS AT DISCONTINUOUS ENDS OF ALL GRADE BEAMS.

5. HORIZONTAL FOOTING AND HORIZONTAL WALL REINFORCEMENT SHALL BE CONTINUOUS AND SHALL HAVE 90-DEGREE BENDS AND EXTENSIONS. OR CORNER BARS OF EQUIVALENT SIZE LAPPED 36 BAR DIAMETER, AT CORNERS AND INTERSECTIONS.

6. HORIZONTAL JOINTS WILL NOT BE PERMITTED IN CONCRETE CONSTRUCTION EXCEPT AS SHOWN ON THE CONTRACT DOCUMENTS. VERTICAL JOINTS SHALL OCCUR AT CENTER OF SPANS AT LOCATIONS REVIEWED BY THE STRUCTURAL ENGINEER.

7. CONSTRUCTION JOINTS BETWEEN PIERS AND PIER CAPS, FOOTINGS AND WALLS OR COLUMNS, OR WALLS, COLUMNS, BEAMS AND THE FLOOR SYSTEM THEY SUPPORT SHALL BE PREPARED BY ROUGHENING THE CONTACT SURFACE TO A FULL AMPLITUDE OF APPROXIMATELY 1/4 INCH LEAVING THE CONTACT SURFACE CLEAN AND FREE OF LAITANCE.

8. PROVIDE 1- NO.4 REINFORCEMENT BAR X 4 '-0. AT RE-ENTRANT CORNERS AND AROUND RECTANGULAR HOLES IN SLABS UNLESS NOTED OTHERWISE. PLACE BAR DIAGONAL TO CORNER WITH 1" CLEARANCE FROM THE TOP AND THE SIDE OF THE SLAB AT THE CORNER.

9. ALL CONCRETE SHALL BE IN ACCORDANCE THE ACI STANDARD BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-83)

10. NORMAL WIGHT CONCRETE (W=145 PCF) WITH MINIMUM COMPRESSIVE STRENGTH FC= 3500 PSI AT 28 DAYS:

11. GROUT FOR BASE PLATES SHALL BE NONSHRINKABLE. NON-METALLIC CONFORMING TO ASTM C827, AND SHALL HAVE A SPECIFIED COMPRESSIVE STRENGTH AT 28 DAYS OF 5000 PSI. PREROUTING OF BASE PLATES WILL NOT BE PERMITTED.

12. DETAILING OF CONCRETE REINFORCEMENT BARS AND ACCESSORIES SHALL CONFOR TO THE RECOMMENDATIONS OF ACI 315 "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT" AND ACI SP-66 "DETAILING MANUAL". PLACING OF REINFORCING BARS SHALL CONFORM TO THE RECOMMENDATIONS OF ACI 315R "MANUAL OF ENGINEERING AND PLACING DRAWINGS FOR REINFORCED CONCRETE STRUCTURES. AND CRSI "MANUAL OF STANDARD PRACTICE",

13. MIXING, TRANSPORTING, AND PLACING OF CONCRETE SHALL CONFORM TO ACI 301.

14. THE SUBSURFACE INFORMATION AND FOUNDATION DESIGN ARE BASED ON A REPORT NO. G21-354 BY ARM SOIL & TESTING LLC. DATE: JULY 23, 2019.

15. THE CONTRACTOR SHALL PERFORM EXCAVATIONS, FOOTING CONSTRUCTION, AND PREPARATION OF THE SUB-GRADE UNDER THE SLAB ON GRADE IN ACCORDANCE WITH THE RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL REPORT AND THE PROJECT SPECIFICATIONS. THE MINIMUM SOIL BEARING FOR THIS PROJECT IS 3,200 PSF FOR DEAD PLUS LIVE LOAD AND4,800 PSF FOR TOTAL LOAD.

15. GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER 24 HOURS PRIOR TO PLACEMENT OF CONCRETE IN THE FOOTINGS.

16. ALL CONCRETE REINFORCING BARS SHALL CONFORM TO ASTM, GRADE 60.

17. CONCRETE SHALL BE REGULAR WEIGHT, SAND AND GRAVEL AGGREGATE , WITH TYPE I PORTLAND CEMENT . 5 SACK MIX, DESIGNATED MINIMUM COMPRESSIVE (F'C) OF 3500 PSI IN 28 DAYS.

18. ALL MIXING , TRANSPORTING , PLACING AND CURING OF CONCRETE SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF AMERICAN CONCRETE INSTITUTE.

19. THERE SHALL BE NO HORIZONTAL CONSTRUCTION JOINTS IN GRADE BEAM OTHER THAN CONSTRUCTION JOINTS SHALL BE MADE IN QUARTER SPANS BETWEEN FOOTING WITH VERTICAL BULKHEADS .

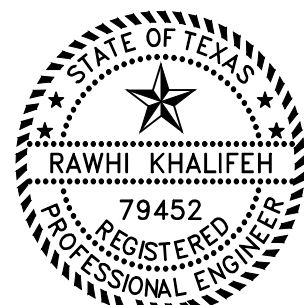
20. LAP CONTINUOUS UNSCHEDULED REINFORCING BARS AS FOLLOWS : BOTTOM BARS IN MEMBERS SUPPORTED BY FOOTING AT LOCATIONS -12" TOP BARS SHALL BE LAP AT OR NEAR MID SPAN. LAP SHALL BE 50 BAR DIAMETERS.

21. GROUT UNDER THE BASE PLATES SHALL BE NON SHRINKING TYPE WITH MINIMUM COMPRESSIVE STRENGTH OF 6000 PSI IN 28 DAYS.

22. DETAILING AND PLACING OF CONCRETE REINFORCEMENT BARS AND ITS ACCESSORIES SHALL BE IN ACCORDANCE WITH ACI 315 LATEST EDITION.

23. ALL CONFLICT OR OMISSIONS BETWEEN DRAWING , NOTE , SOIL REPORT AND SITE CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER . FALLURE TO DO SO WILL OBLIGATE THE CONTRACTOR TO ANY JOB EXPENSE ARISING DUE TO ANY ERRORS THAT MAY OCCUR HEREON.

GRAPHIC SCALE



12/14/2022

Table with 3 columns: DATE, ISSUED FOR, DESCRIPTION. Rows include issue history for 5-16-22 and subsequent dates.



RSK ENGINEERING

ENGINEERS, CONSTRUCTION MANAGERS, PLANNERS

11302 TANNER RD. TEL. (281) 580-4585
HOUSTON, TEXAS 77041 FAX (281) 580-4399
FIRM # F-11211

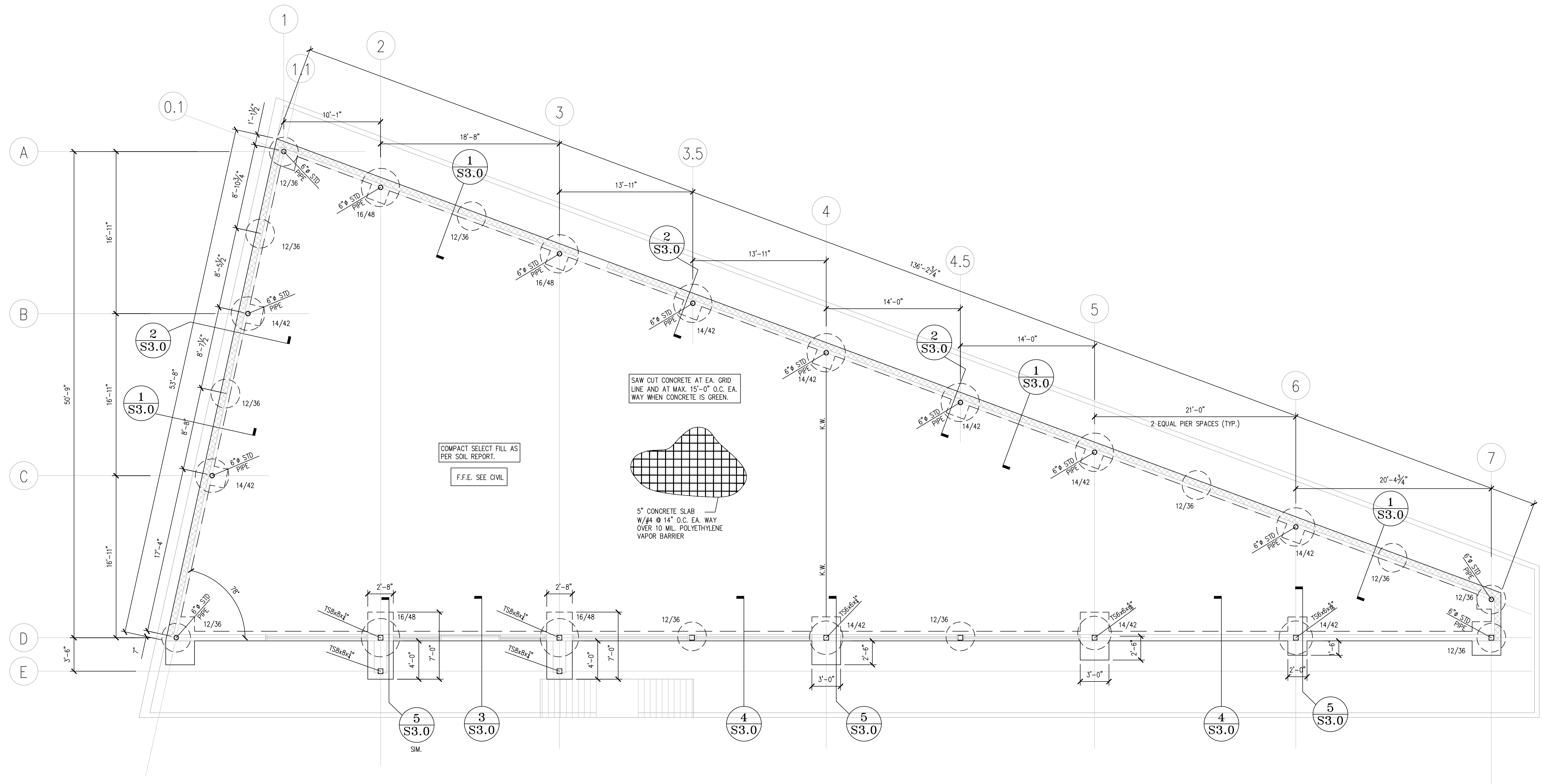
VILLA MARIA GAS STATION

1919 WEST VILLA MARIA ROAD

BRYAN , TX 77807

GENERAL NOTES

Table with 3 columns: DRAWN BY, CHECKED BY, DATE, PROJ. NO., SHEET, Rev. Includes values for RSK, 9-15-2021, VR151003.317.4, S0.00, and Rev.0.

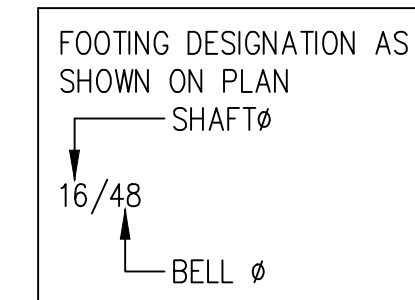


PLAN NOTES:

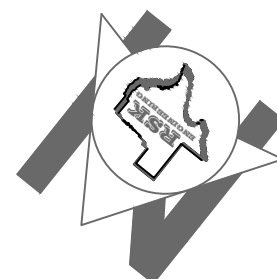
1. REPLACE EXISTING SOIL AS RECOMMENDED BY GEOTECHNICAL REPORT. REPORT BY ARM SOIL TESTING LLC. REPORT NO. G21-354
2. SITE SHOULD BE GRADED TO SHED ALL RAIN WATER AWAY FROM THE STRUCTURE.
3. CONTRACTOR TO CHECK FOR UNDERGROUND UTILITIES BEFORE DIGGING OR DRILLING PIERS.
4. CONTRACTOR TO CONTACT GEO/TECH ENGINEER FOR PRESENCE OF ANY TREES AND PROCEDURES FOR REMOVAL OF TREES FROM THE PROJECT SITE.
5. REFER TO ARCHITECTURE DRAWINGS FOR TOP OF FINISH FLOOR ELEVATION.
6. REFER TO ARCHITECTURE DRAWINGS FOR ALL BRICK LEDGES, SIDEWALK, ELEVATIONS AND RAMP DETAILS
7. ALL TUBE STEEL COLUMNS TO HSS (HIGH STRENGTH STEEL)

LEGEND

- (C) INDICATE COLUMN NUMBER AND LOCATION
- (B) INDICATE BASE PLATE (TYP.)
- C.J. INDICATES CONTROL JOINT
- K.W. INDICATES KEY WAY
- E.J. INDICATE EXPANSION JOINT.



SCALE: 3/16" = 1'-0"
GRAPHIC SCALE

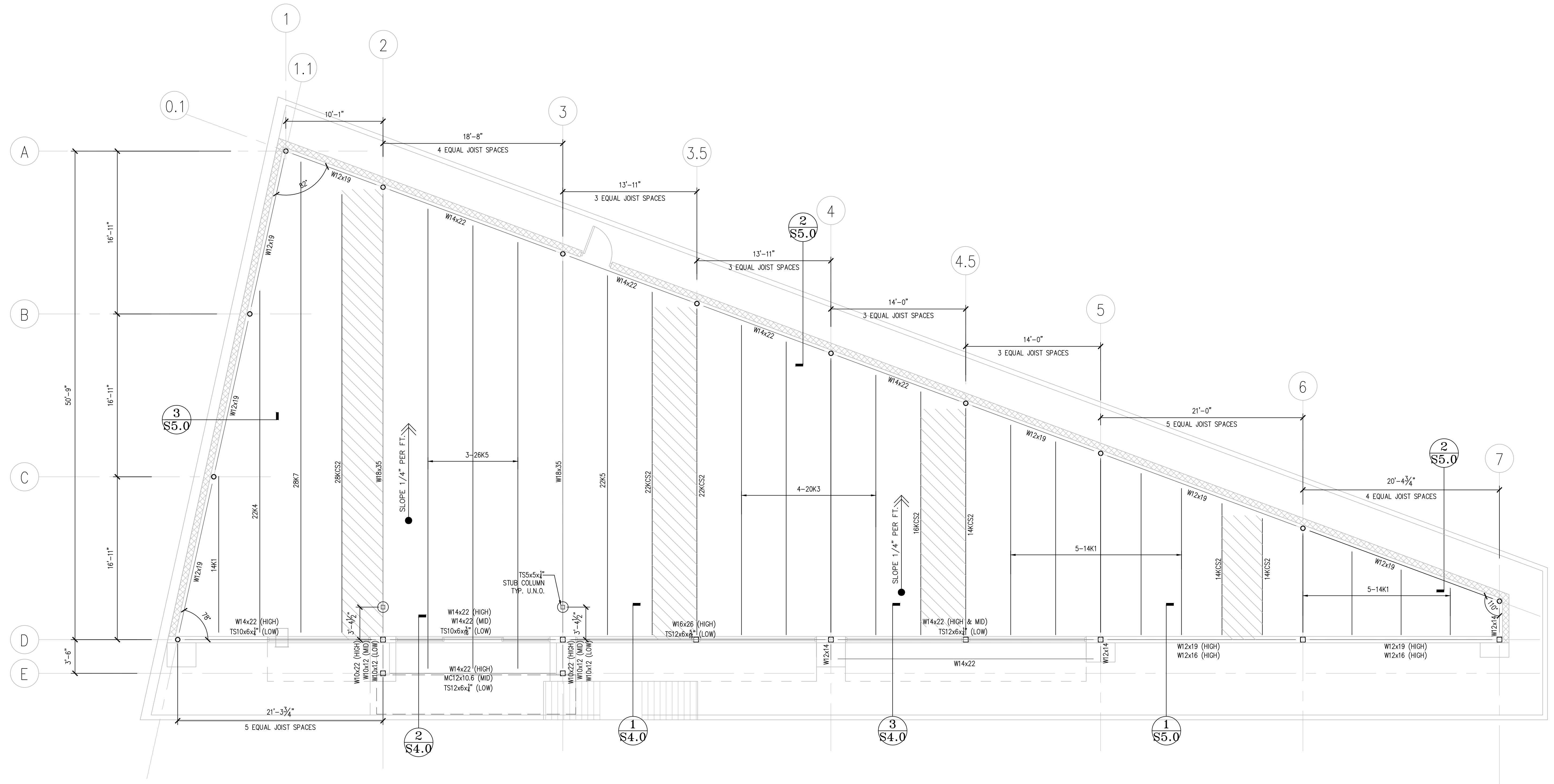


STATE OF TEXAS
RAWHI KHALIFEH
79452
REGISTERED PROFESSIONAL ENGINEER
12/14/2022

ISSUE HISTORY		REVISIONS	
DATE	ISSUED FOR	DESCRIPTION	
5-16-22	ISSUE FOR PERMITTING	CONSTRUCTION DRAWINGS	
-	-	-	-
-	-	-	-
-	-	-	-

RSK ENGINEERING
ENGINEERS, CONSTRUCTION MANAGERS, PLANNERS
11302 TANNER RD. TEL. (281) 580-4585
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FIRM # F-11211

VILLA MARIA GAS STATION
1919 WEST VILLA MARIA ROAD
BRYAN, TX 77807
FOUNDATION PLAN
DRAWN BY: BM DATE: 9-15-2021 SHEET: **S1.0**
CHECKED BY: RSK PROJ. NO.: VR151003.317.4 Rev. 0



GENERAL NOTES:

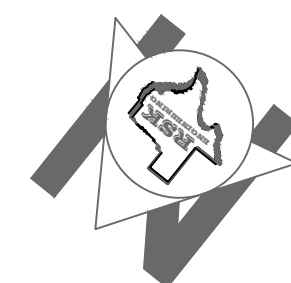
- CONTRACTOR SHALL REVIEW ARCHITECTURAL AND STRUCTURAL DRAWINGS JOINTLY, TO ENSURE COORDINATION OF ALL PHASES OF CONSTRUCTION DESCRIBED IN THESE DRAWINGS. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF BOTH ARCHITECT AND ENGINEER, PRIOR TO PROCEEDING WITH CONSTRUCTION WORK.
- THE FOLLOWING ITEMS, IN PARTICULAR, HAVE TO BE CLOSELY COORDINATED BETWEEN ARCHITECTURAL AND STRUCTURAL DRAWINGS:
 - ALL DIMENSIONS;
 - SLAB AND FLOOR ELEVATIONS, SLOPES, LOCATIONS AND DIMENSIONS OF ANY RECESSES;
 - PLUMBING, GAS, VENT & ELECTRICAL OUTLETS, ETC.;
 - CURBS AND VENEER LEDGES;
 - CEILING HEIGHTS AND CEILING CONDITIONS;
 - ROOF GEOMETRY AND SLOPES.
- CONTRACTOR IS ADVISED THAT IN ALL ITEMS LISTED UNDER PARAGRAPH 2 ABOVE, ARCHITECTURAL DRAWINGS WILL GENERALLY TAKE PRECEDENCE OVER STRUCTURAL DRAWINGS.

PLAN NOTES:

- AREA DESIGNATED FOR MECHANICAL EQUIPMENT ZONE. MAX ALLOWABLE LOAD IS 50 PSF.
- ALL STEEL SHALL BE 50 KSI MATERIAL
- DESIGN BAR JOISTS BRIDGING FOR MAX. NET UPLIFT PRESSURE OF 30 PSF
- ALL COLUMNS ARE AS SHOWN ON FOUNDATION PLAN

SCALE: 3/16" = 1'-0"

GRAPHIC SCALE



ISSUE HISTORY		REVISIONS	
DATE	ISSUED FOR	DESCRIPTION	
5-16-22	ISSUE FOR PERMITTING	CONSTRUCTION DRAWINGS	
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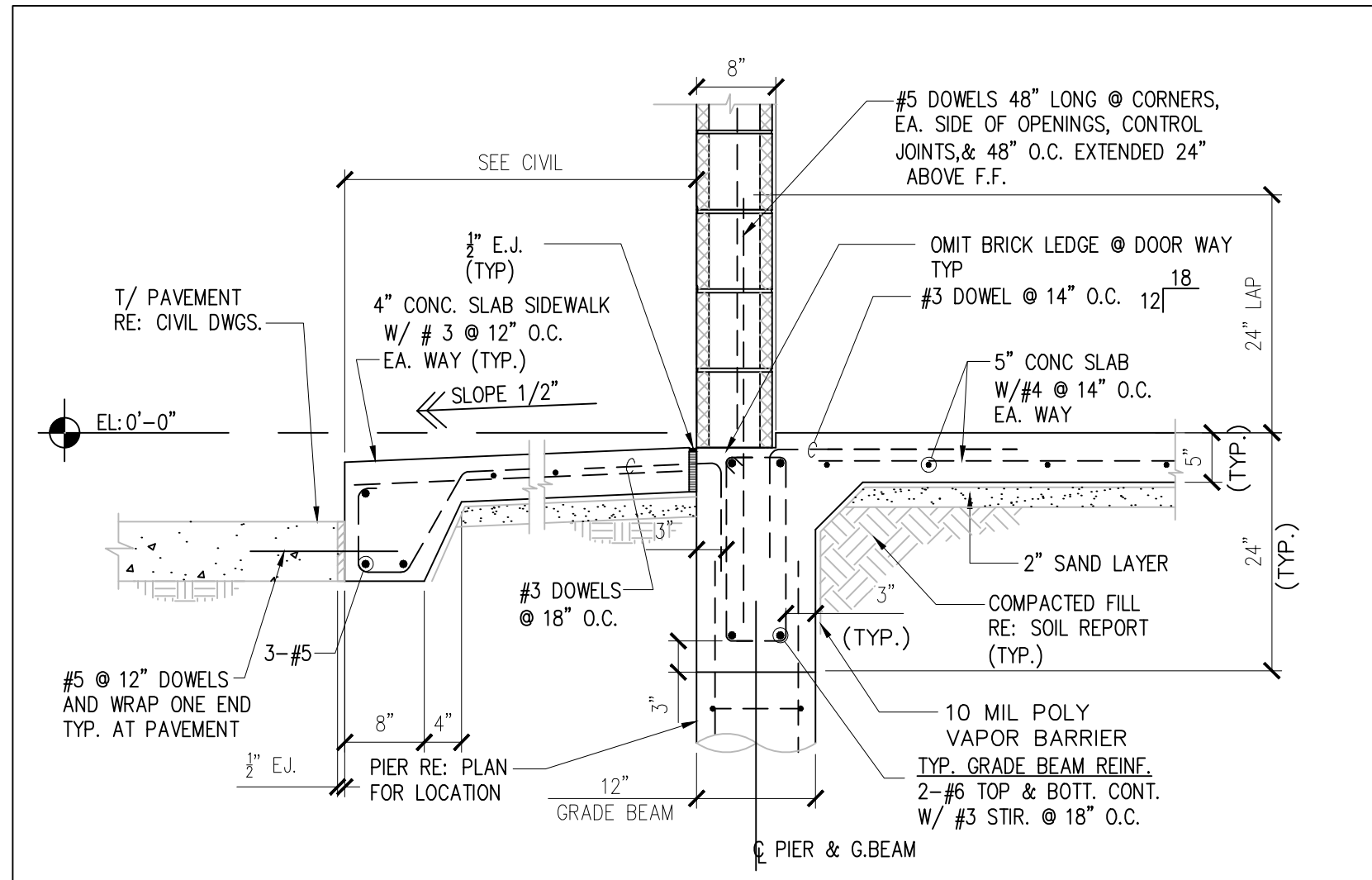
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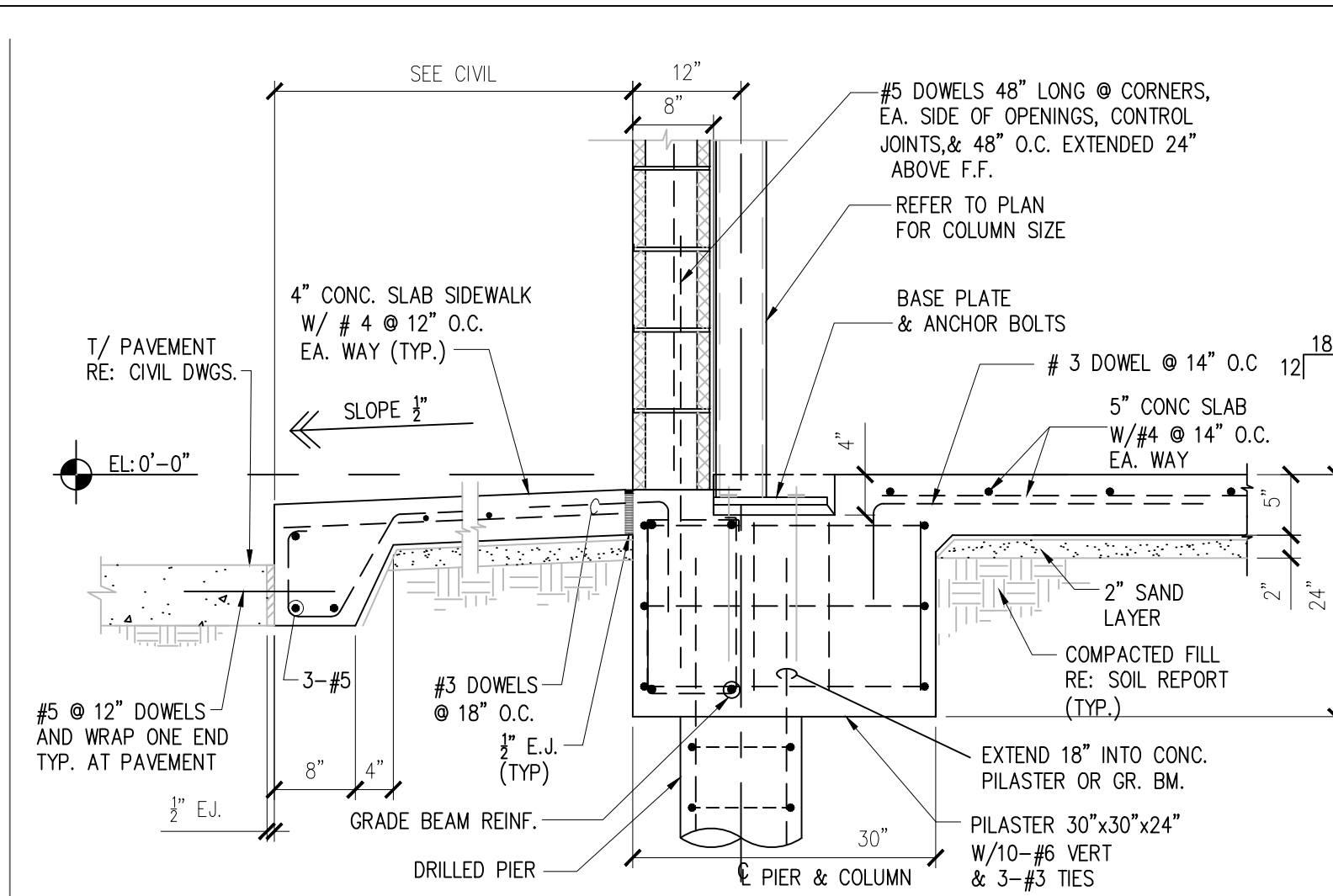
VILLA MARIA GAS STATION
1919 WEST VILLA MARIA ROAD
BRYAN, TX 77807

ROOF FRAMING PLAN

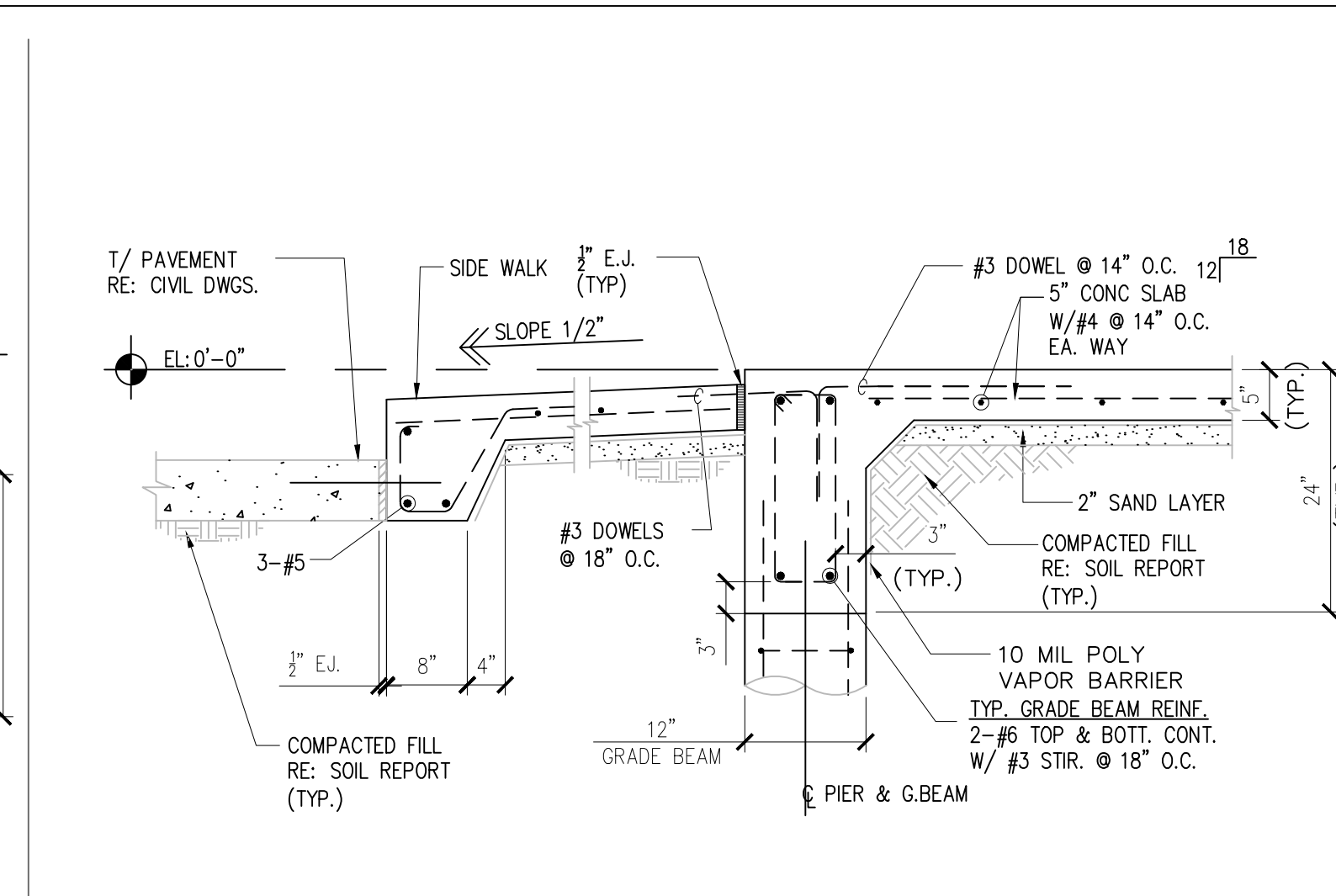
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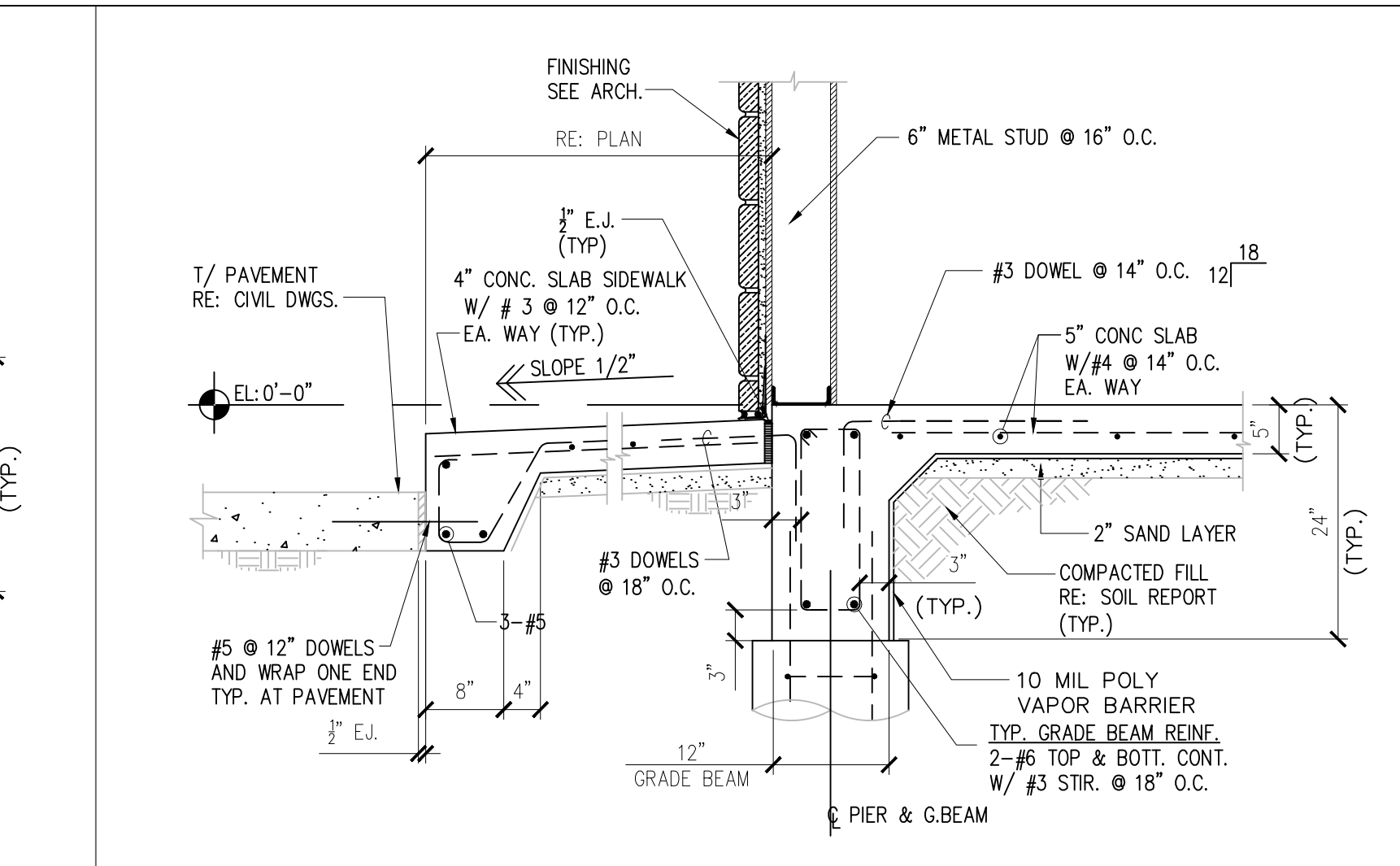
1 SECTION: TYPICAL GRADE BEAM AT CMU WALL



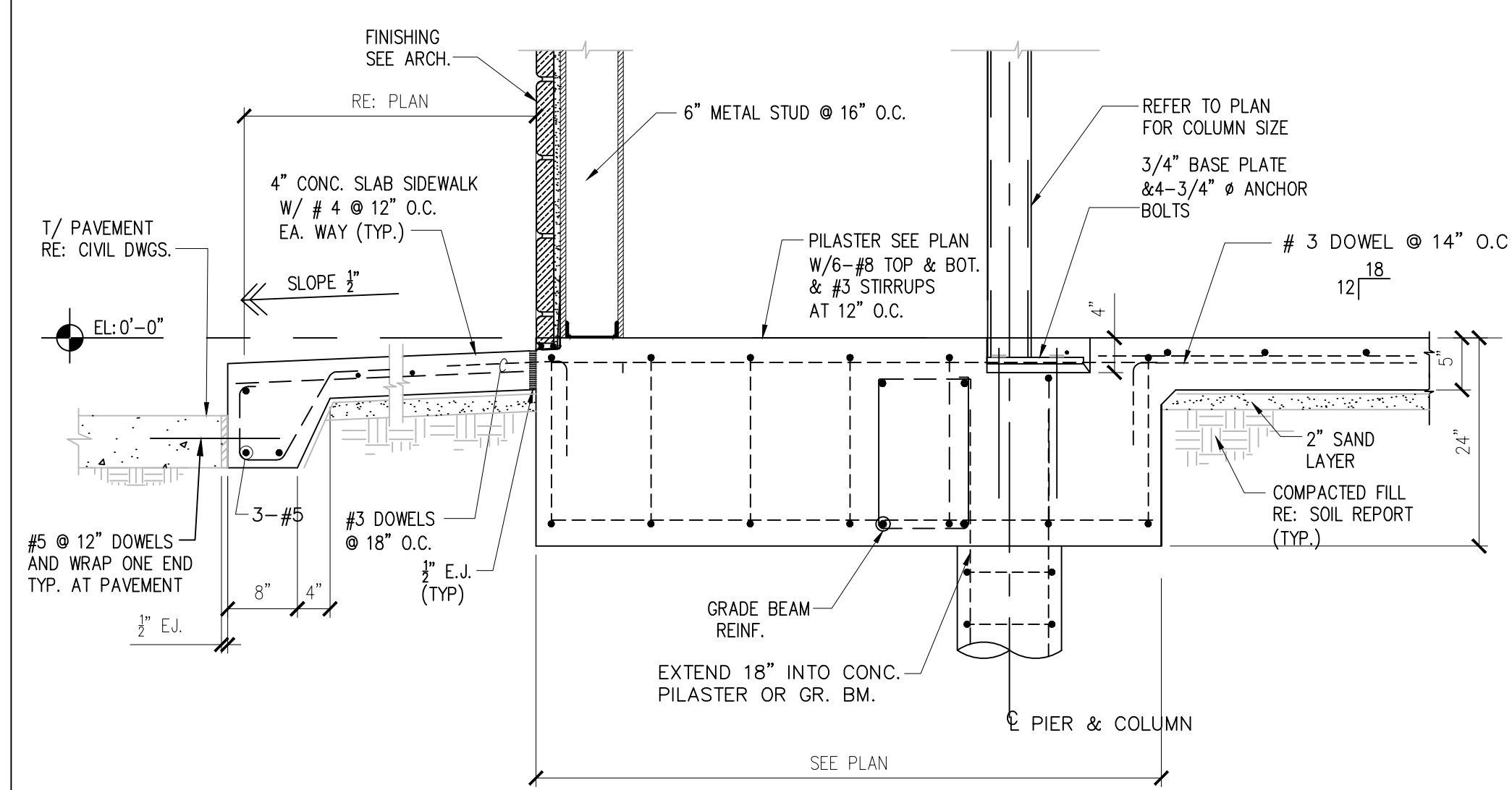
2 SECTION: COLUMN PILASTER AT CMU WALL



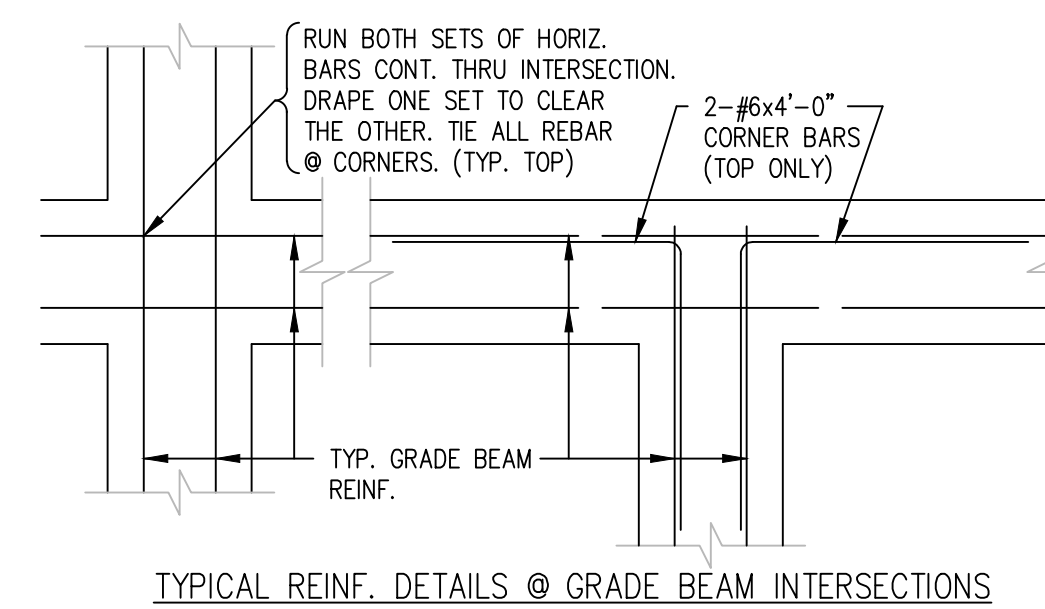
3 SECTION: TYPICAL EXTERIOR GRADE BEAM AT DOOR WAY



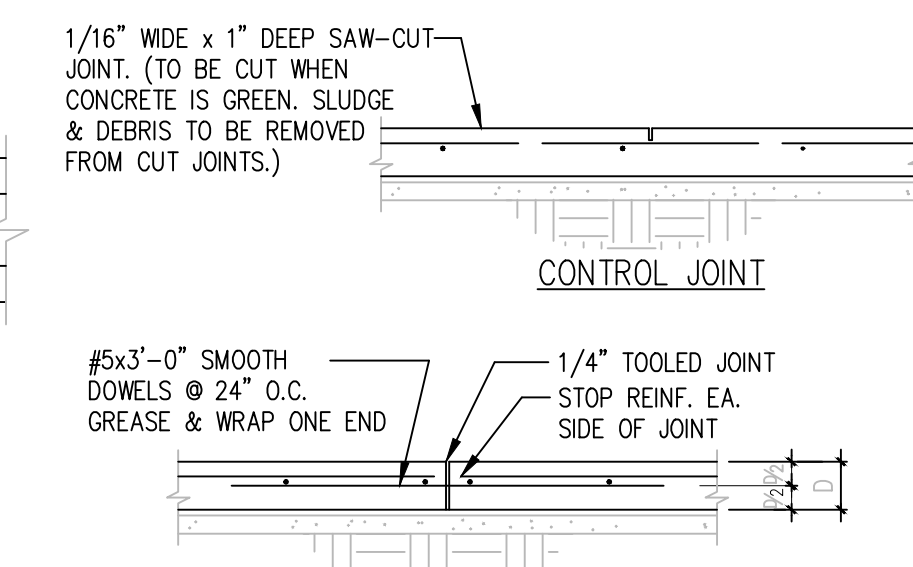
4 SECTION: GRADE BEAM AT FRONT METAL STUD WALL



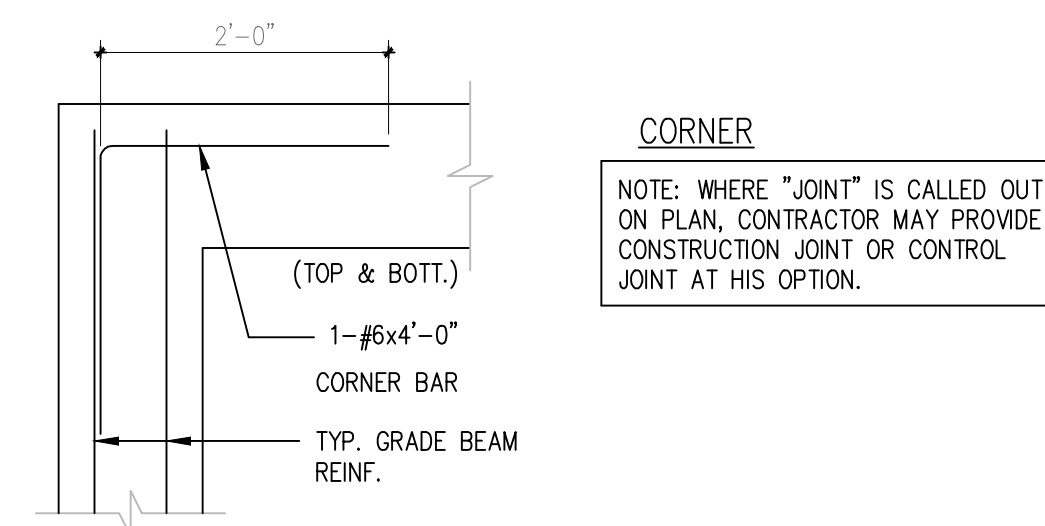
5 SECTION: COLUMN PILASTER AT STORE FRONT



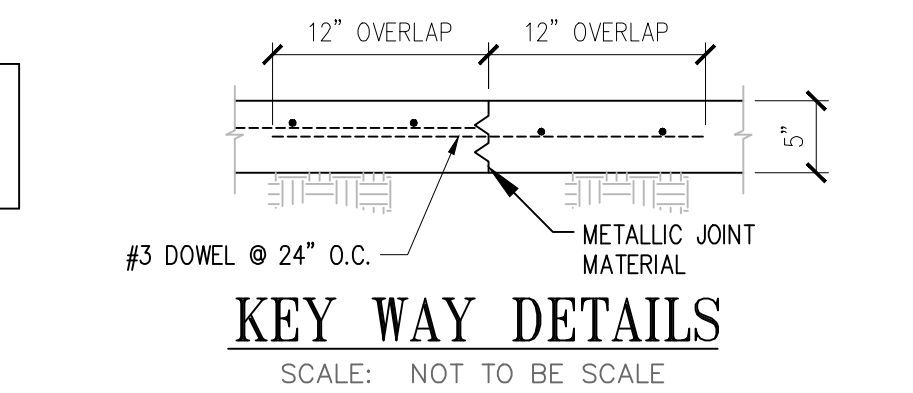
TYPICAL REINF. DETAILS @ GRADE BEAM INTERSECTIONS



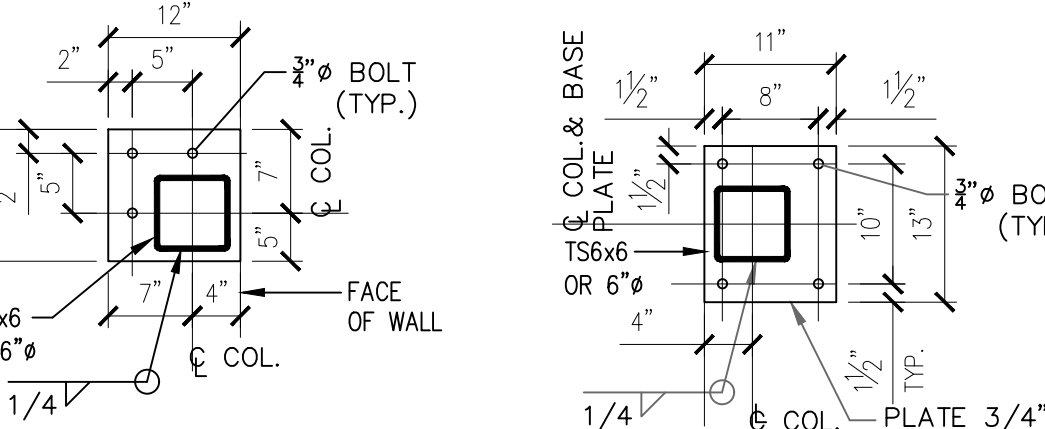
CONSTRUCTION JOINT



CORNER
NOTE: WHERE "JOINT" IS CALLED OUT ON PLAN, CONTRACTOR MAY PROVIDE CONSTRUCTION JOINT OR CONTROL JOINT AT HIS OPTION.

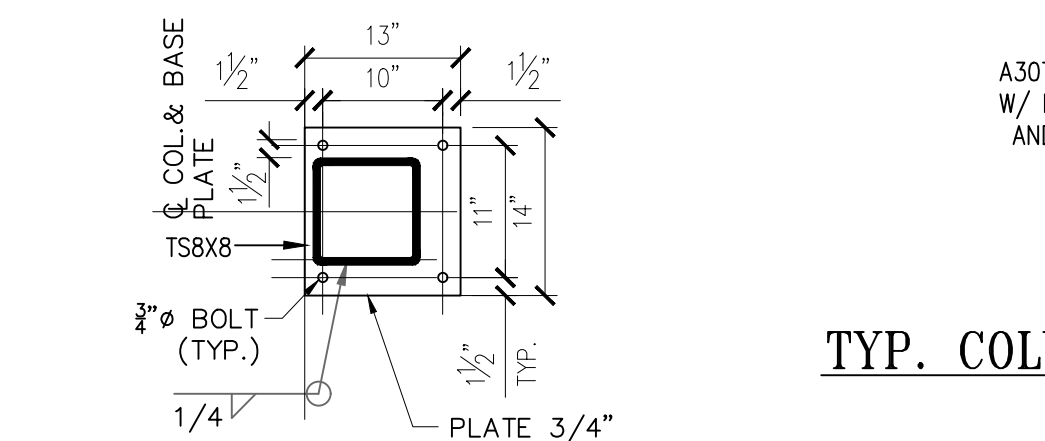


KEY WAY DETAILS
SCALE: NOT TO BE SCALE



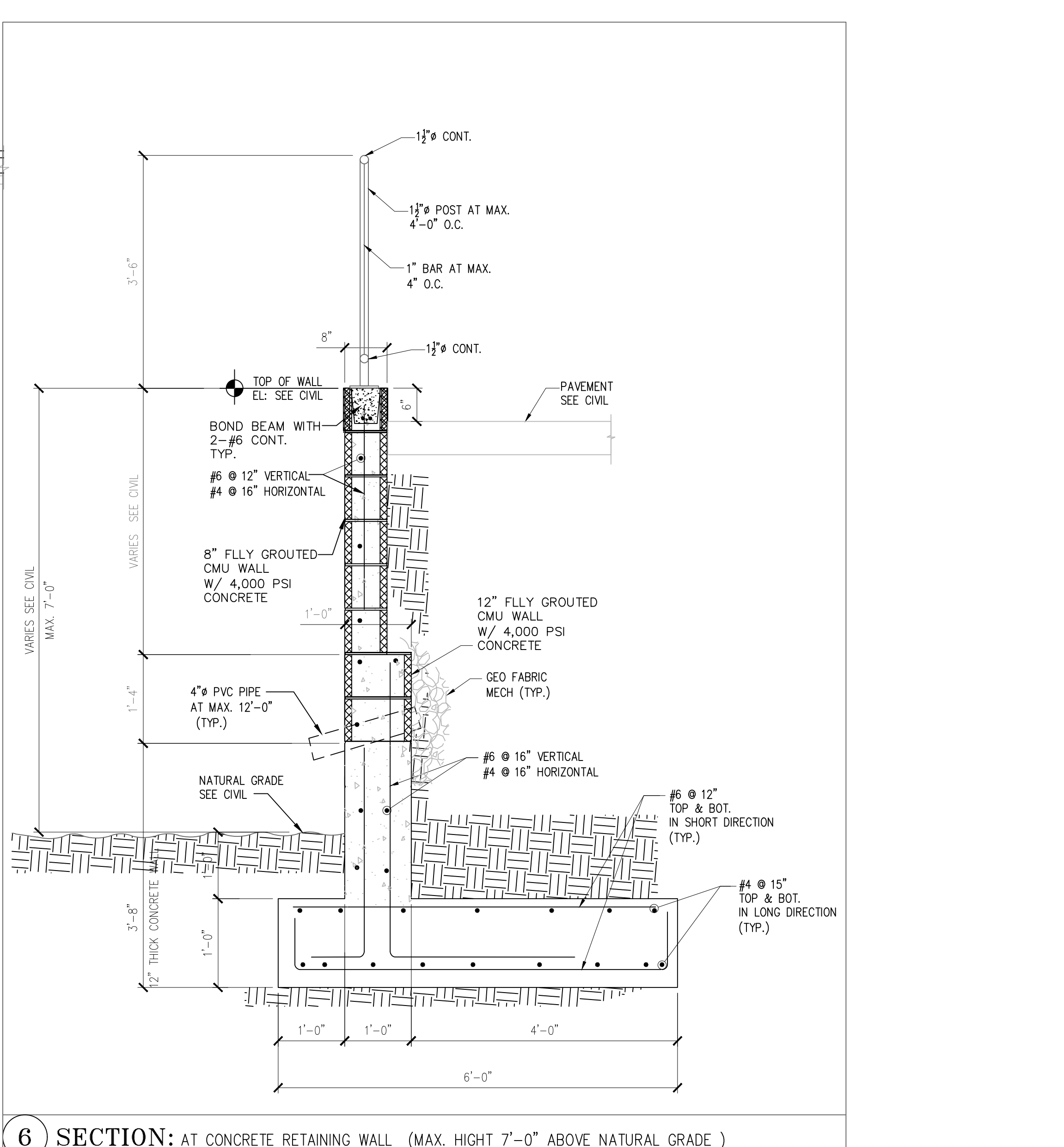
DETAIL-A

DETAIL-B

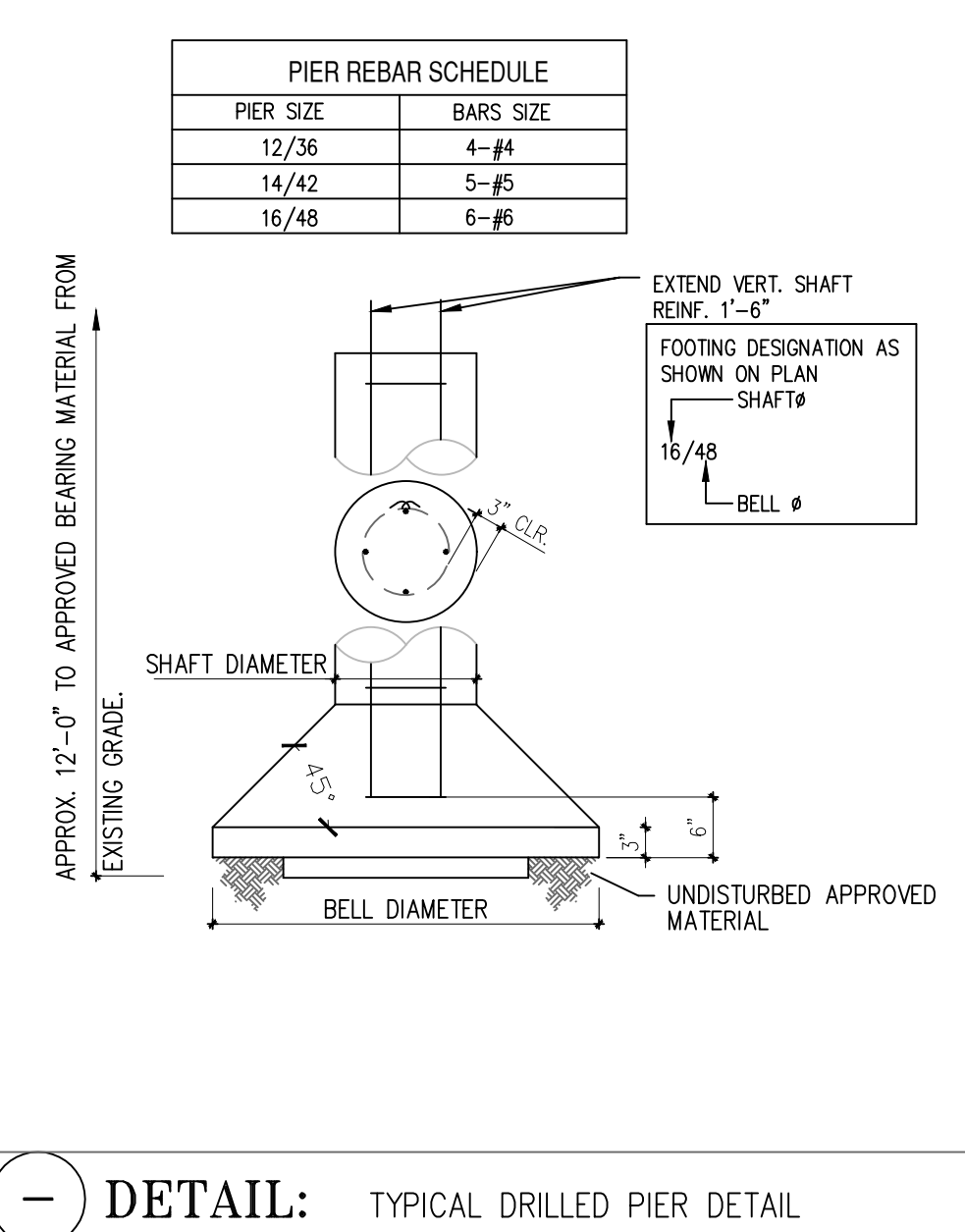


DETAIL-C

TYP. COLUMN TO FOUNDATION ANCHOR BOLT

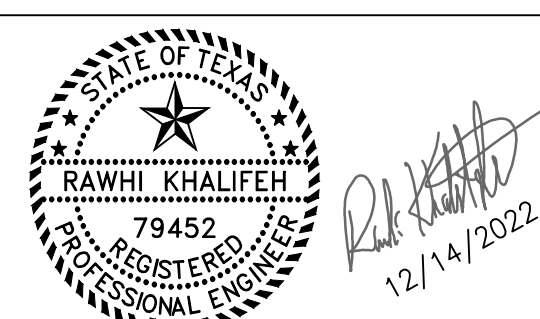


6 SECTION: AT CONCRETE RETAINING WALL (MAX. HEIGHT 7'-0" ABOVE NATURAL GRADE)



DETAIL: TYPICAL DRILLED PIER DETAIL

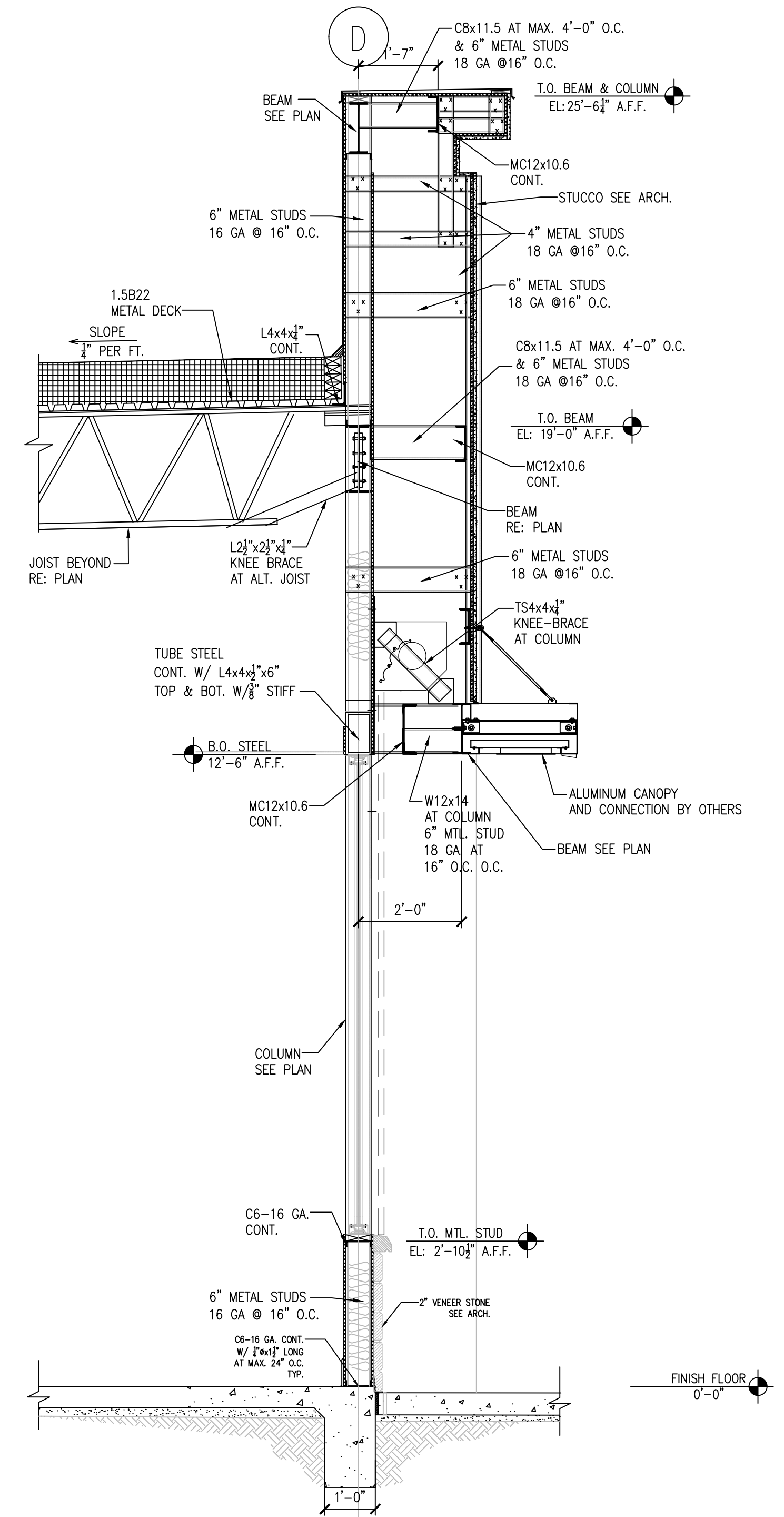
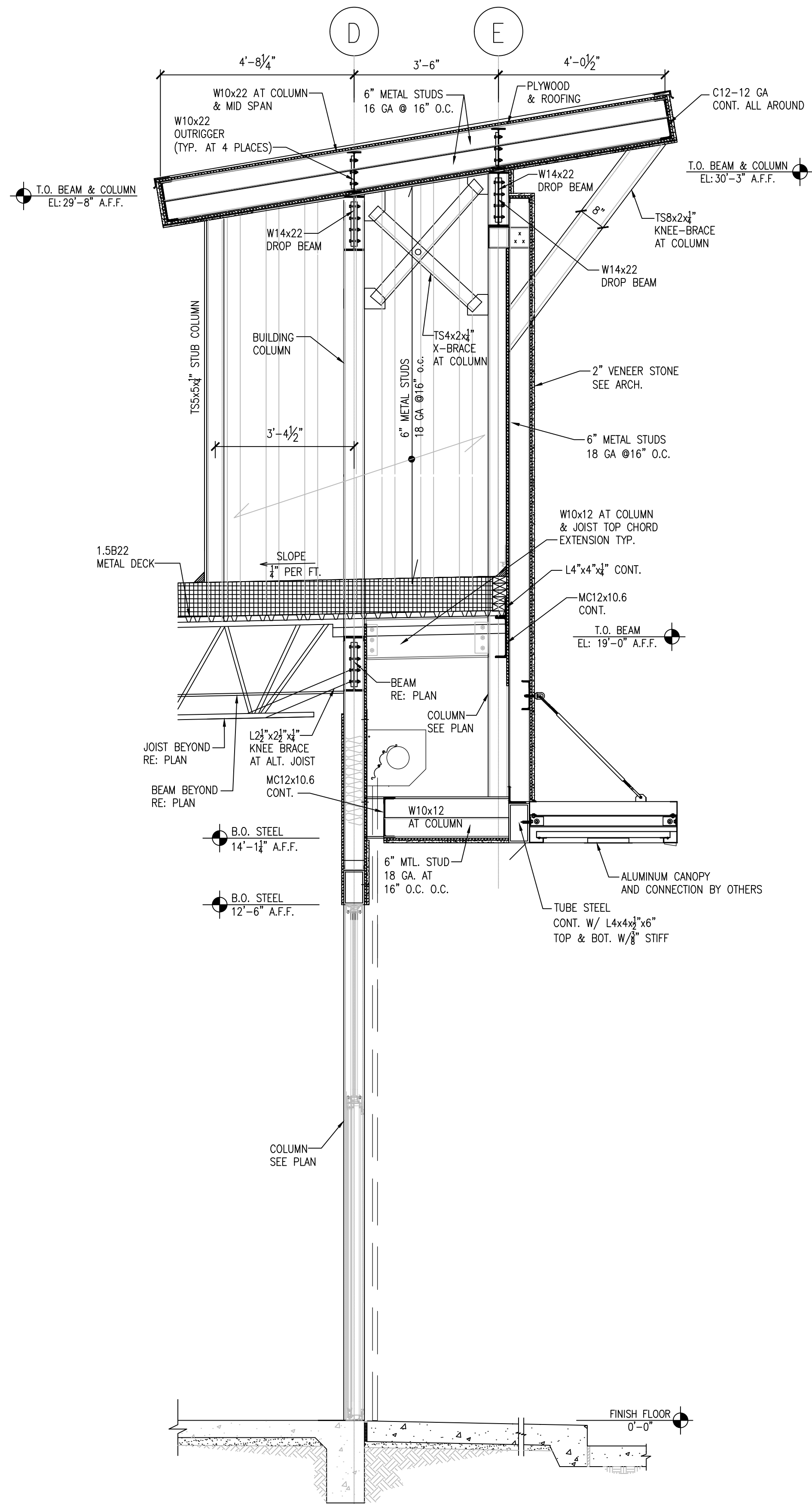
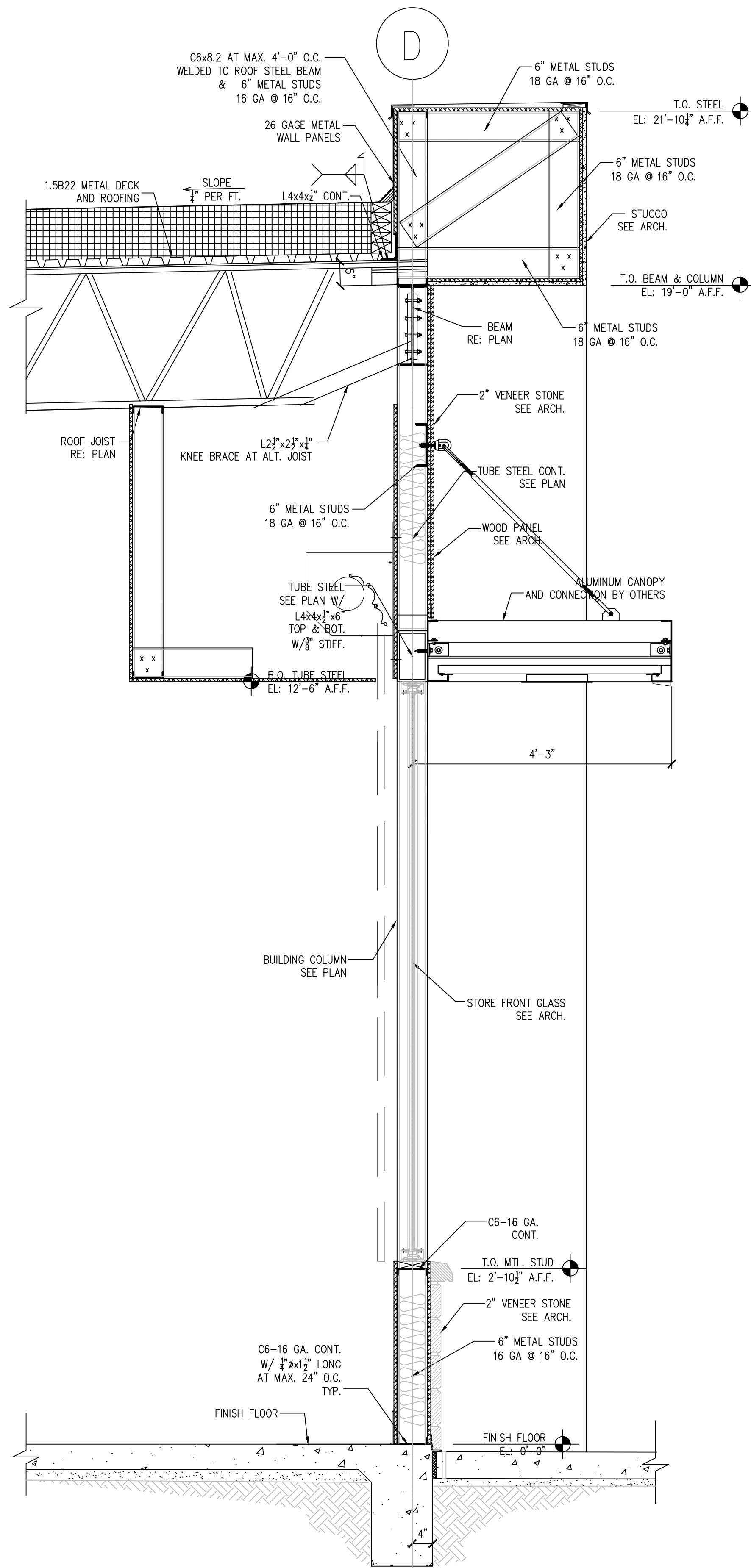
GRAPHIC SCALE



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FOUNDATION SECTIONS
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1 SECTION: AT STORE FRONT WALL SECTION

2 SECTION: AT STORE FRONT TOWER

3 SECTION: AT STORE FRONT WALL SECTION

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

GRAPHIC SCALE



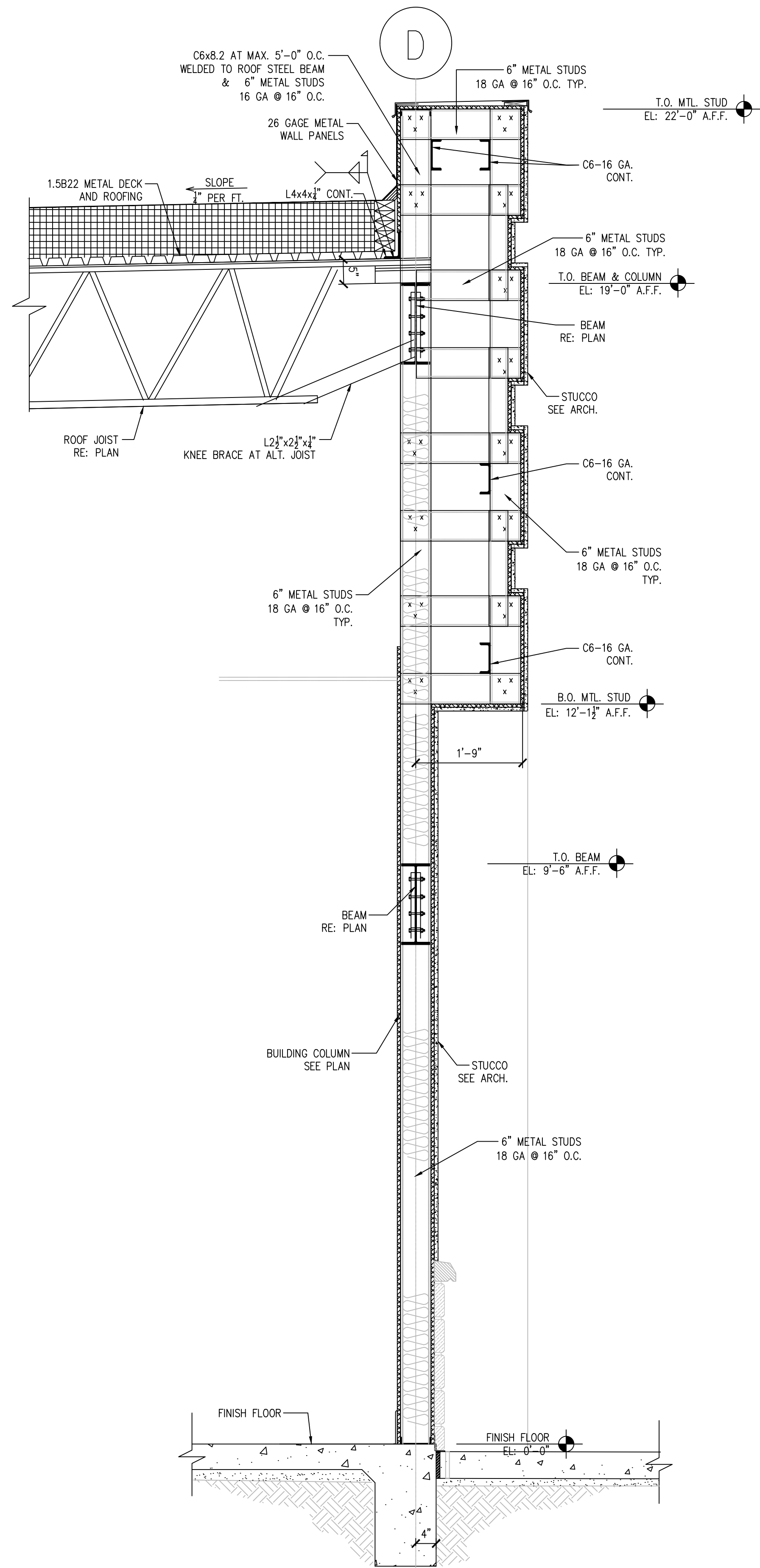
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VILLA MARIA GAS STATION
1919 WEST VILLA MARIA ROAD
BRYAN, TX 77807
WALL SECTIONS FRAMING

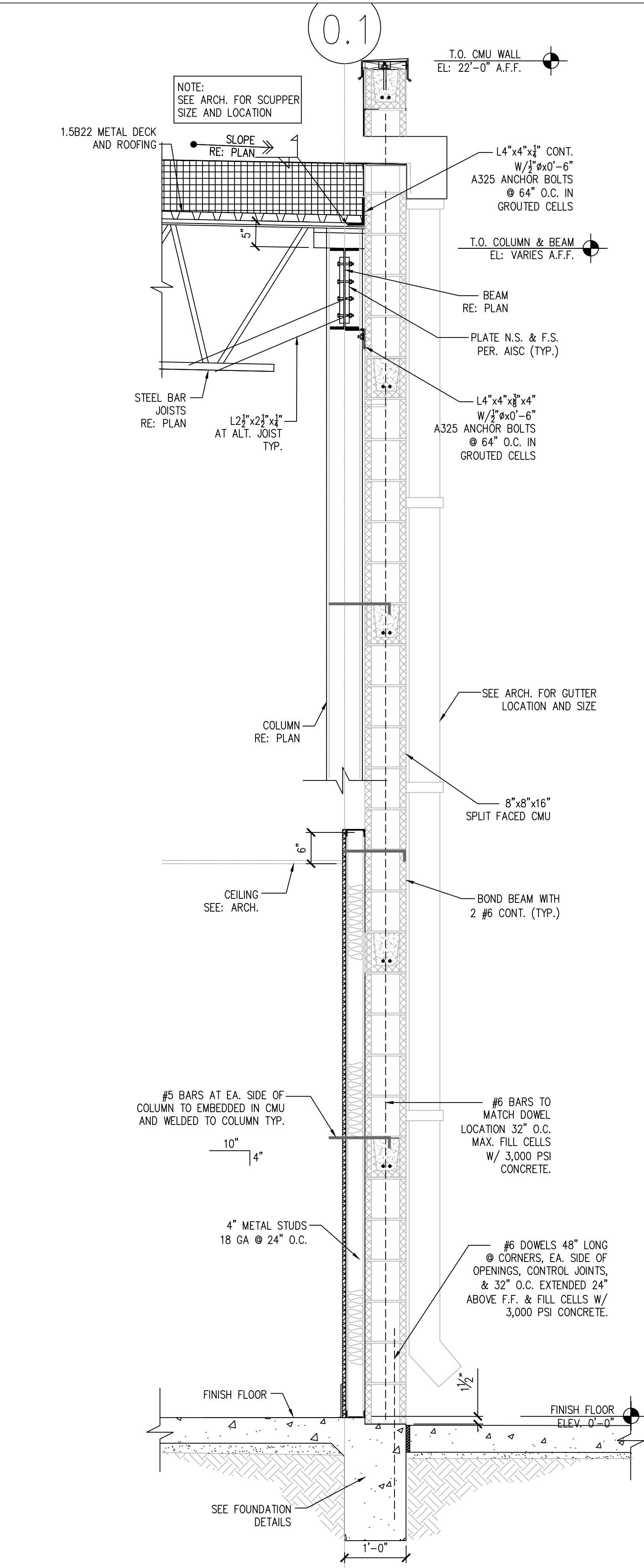
DRAWN BY: BM	DATE: 12-6-2021	SHEET:
CHECKED BY: RSK	PROJ. NO.: VR151003.317.4	S4.0 Rev.0



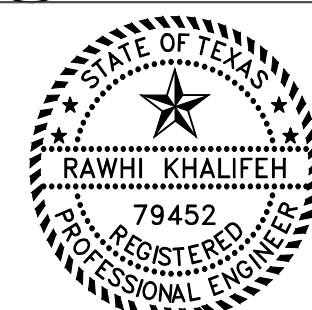
1 SECTION: AT STORE FRONT MTL. STUD WALL

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

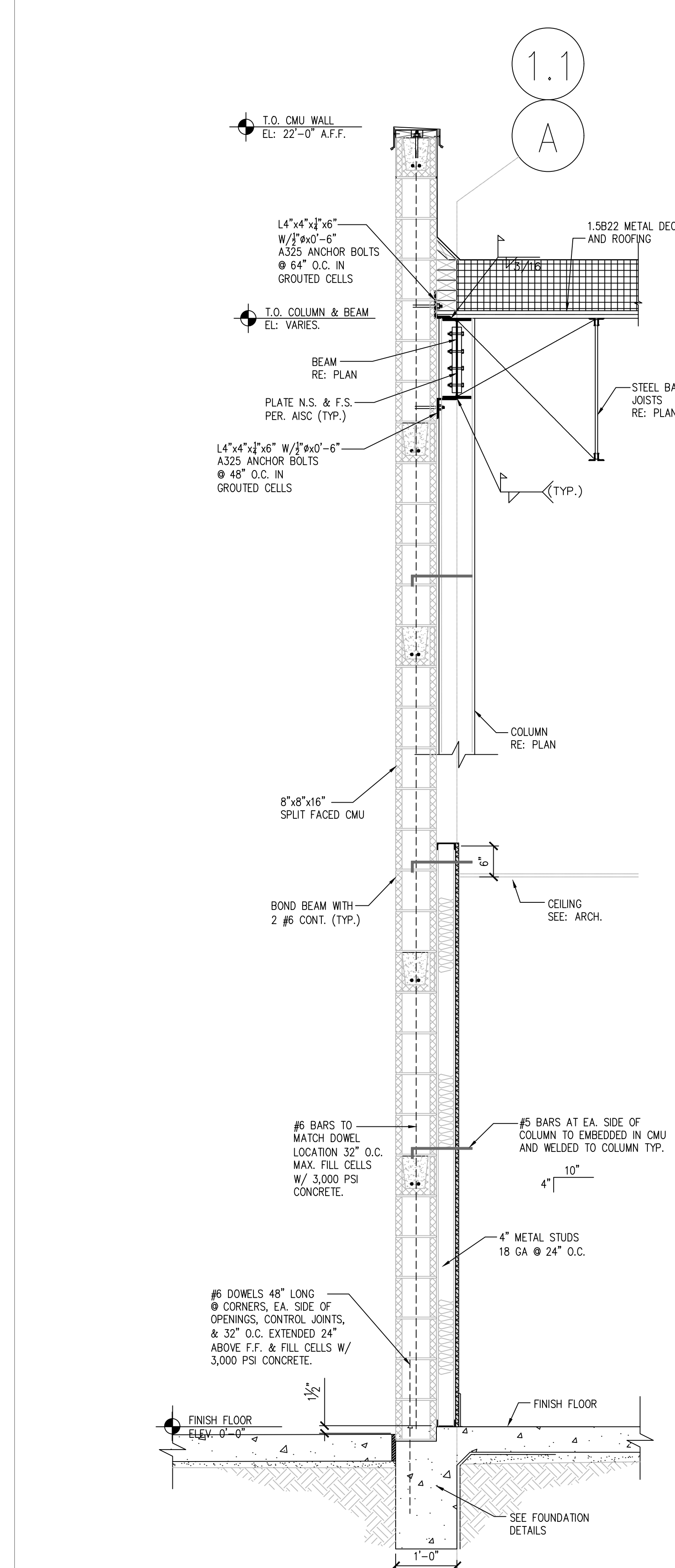
GRAPHIC SCALE



2 SECTION: AT REAR CMU WALL



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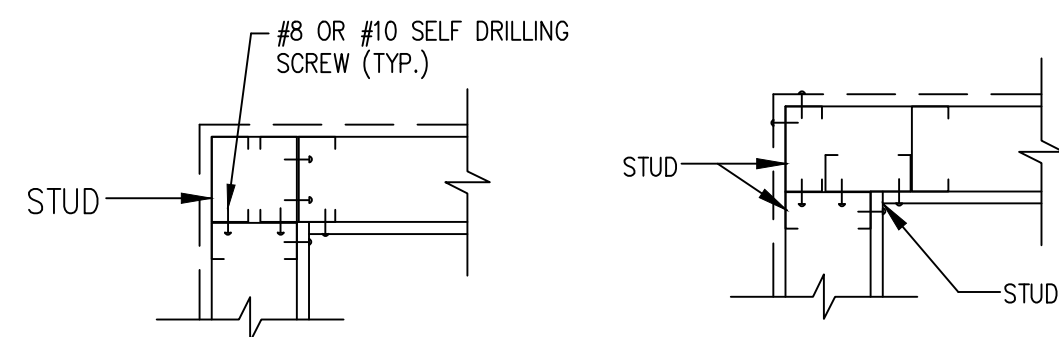


3 SECTION: AT SIDE CMU WALL

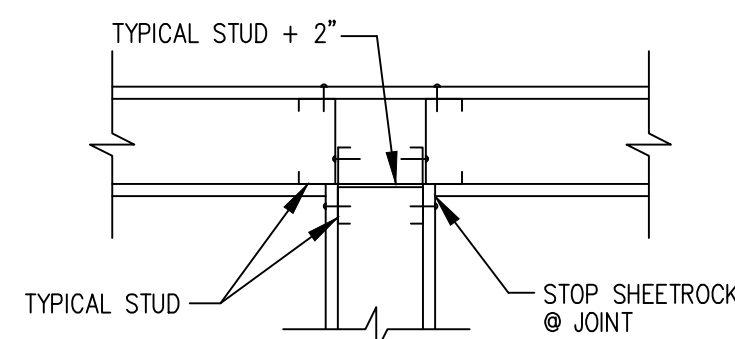


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WALL SECTIONS FRAMING		
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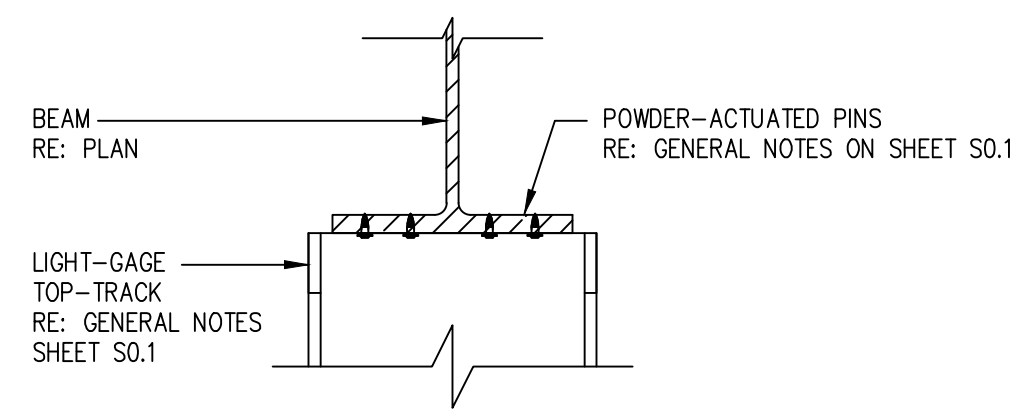


CORNER **CORNER**

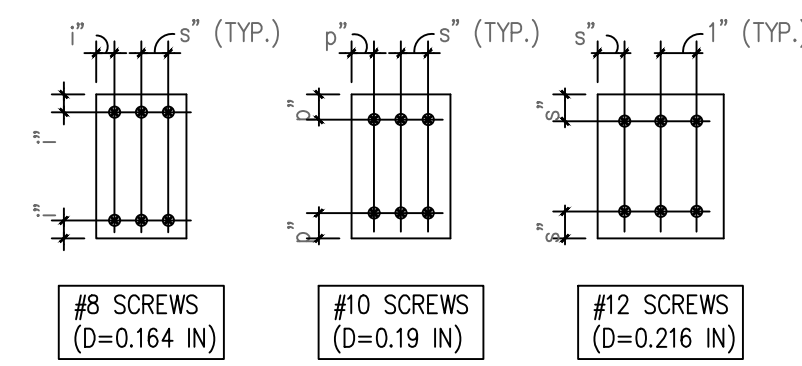


INTERSECTION

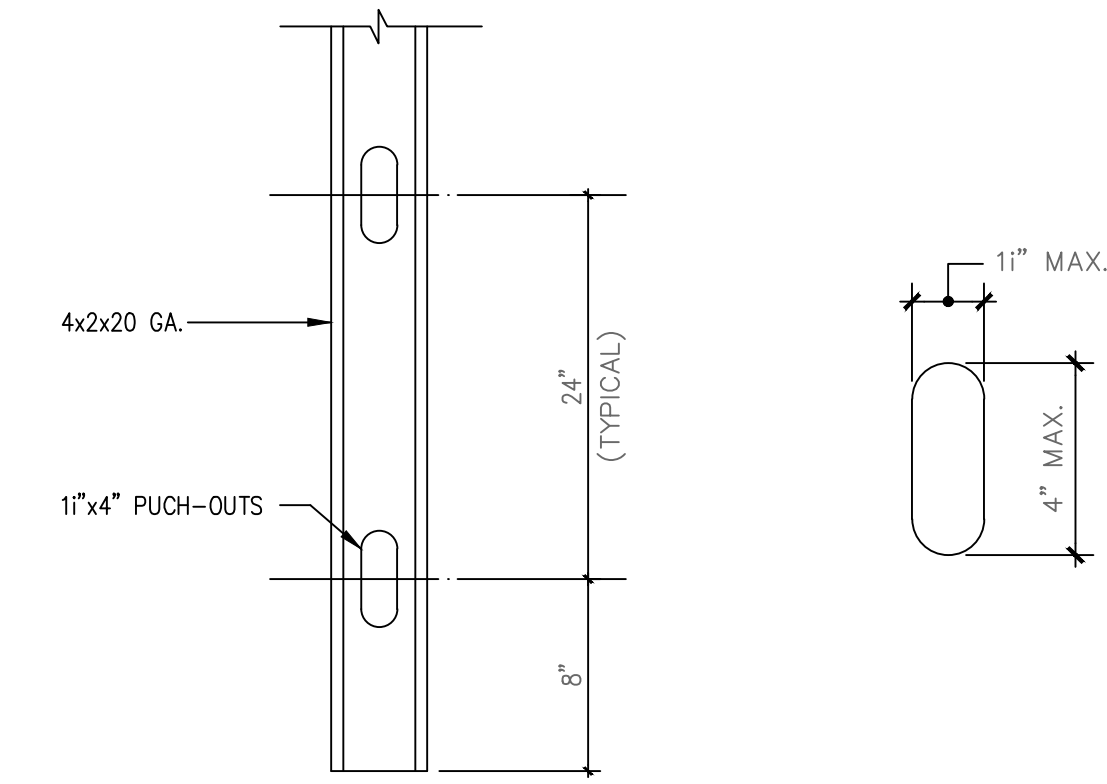
1 SECTION: TYPICAL STUD WALL CORNER FRAMING DETAILS



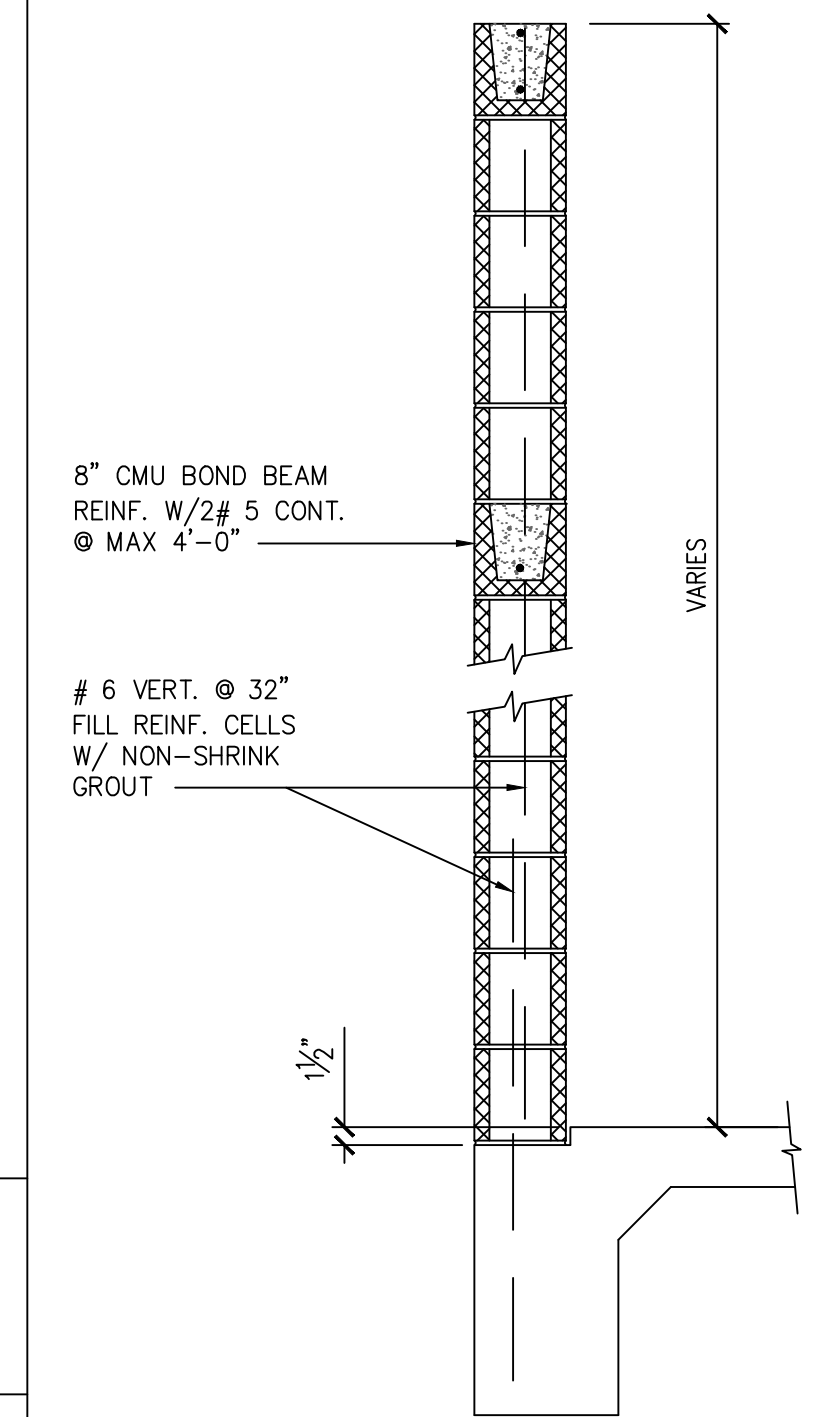
4 SECTION: TYPICAL LIGHT-GAGE TRACK TO STEEL BEAM CONN.



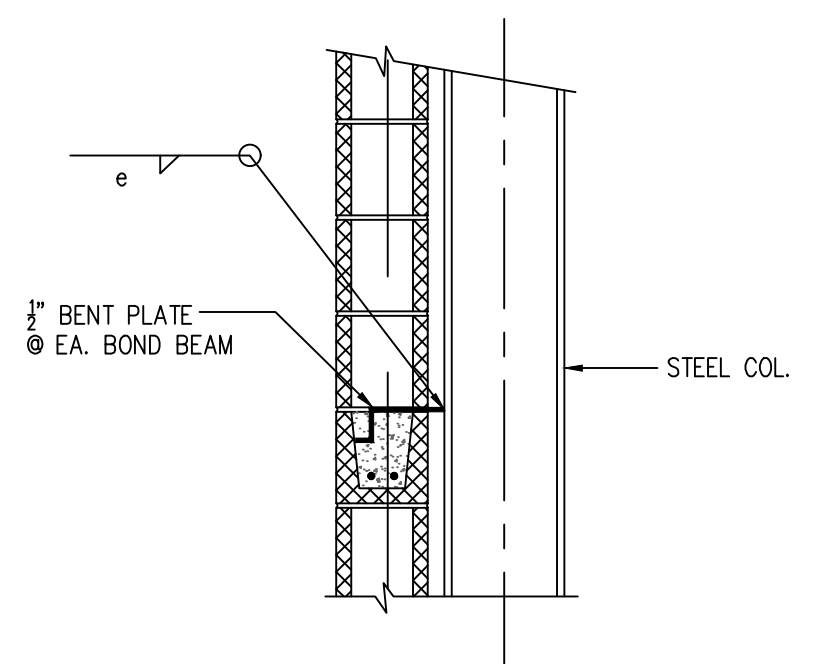
7 SECTION: MINIMUM FASTENER SPACING & EDGE DISTANCES



9 DETAIL: TYPICAL STUD PUNCH-OUT (ELEVATION)



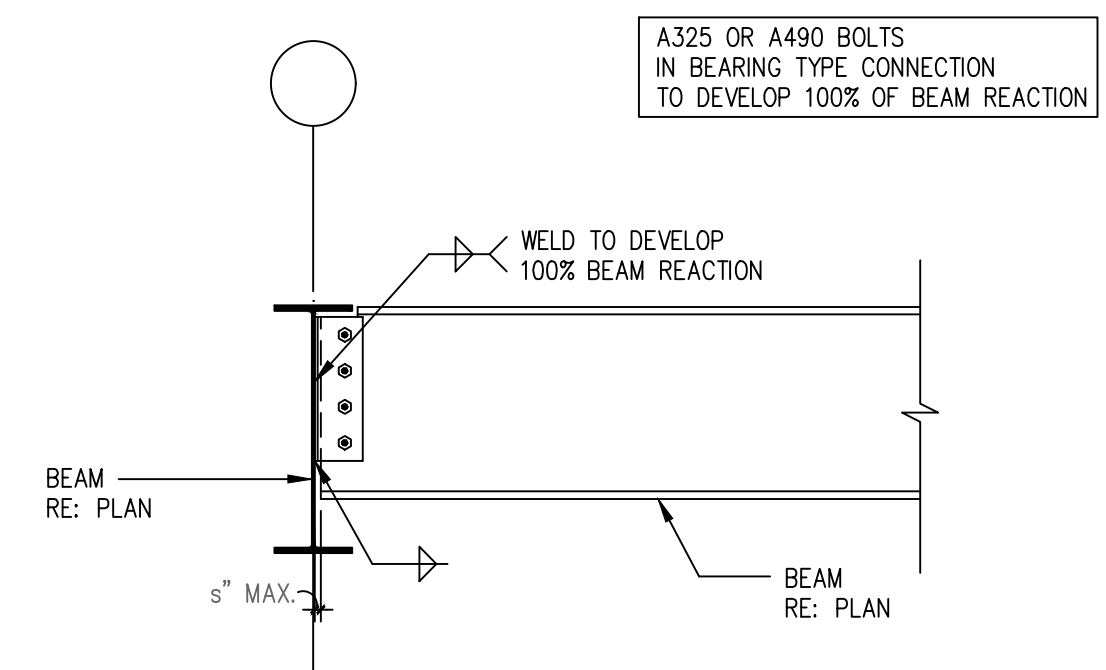
TYPICAL WALL SECTION



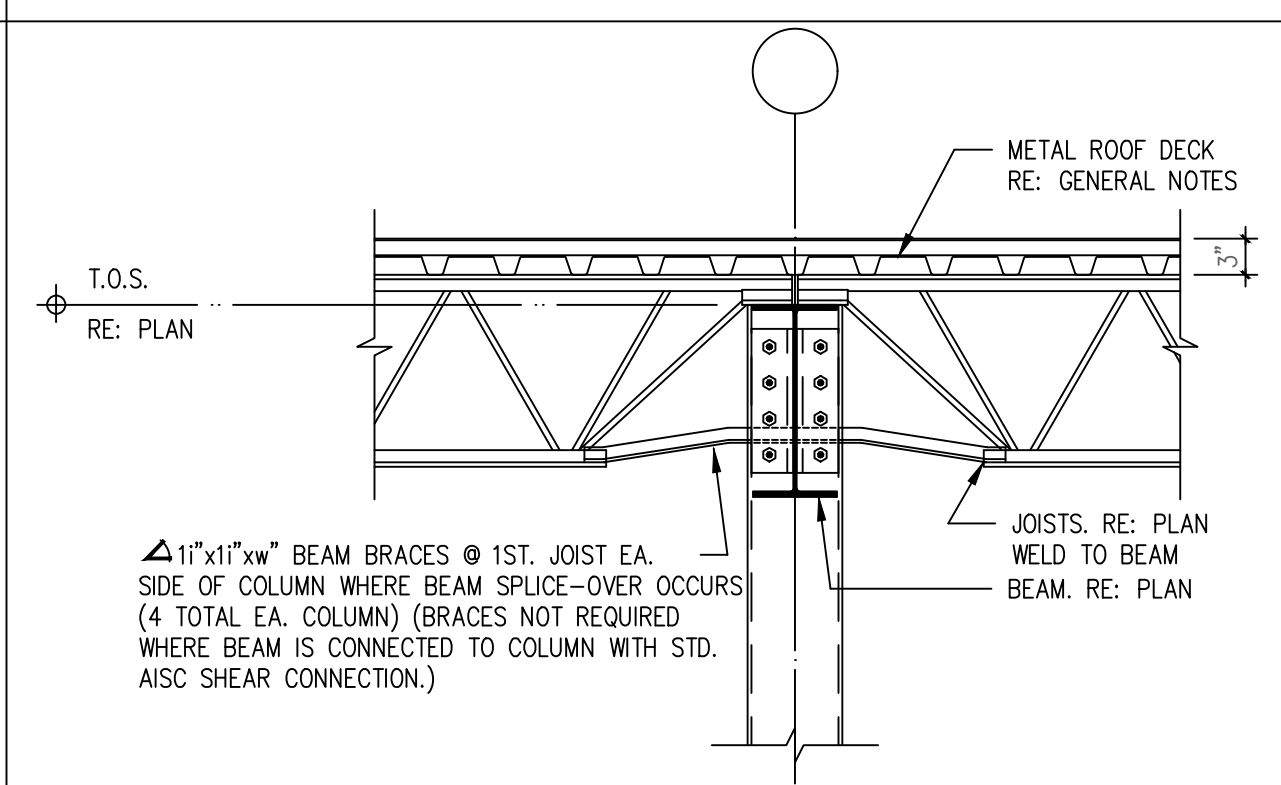
NOTE:
JOISTS & DECK
ARE NOT SHOWN
FOR CLARITY.

10 SECTION: CANTILEVER BEAM DETAILS

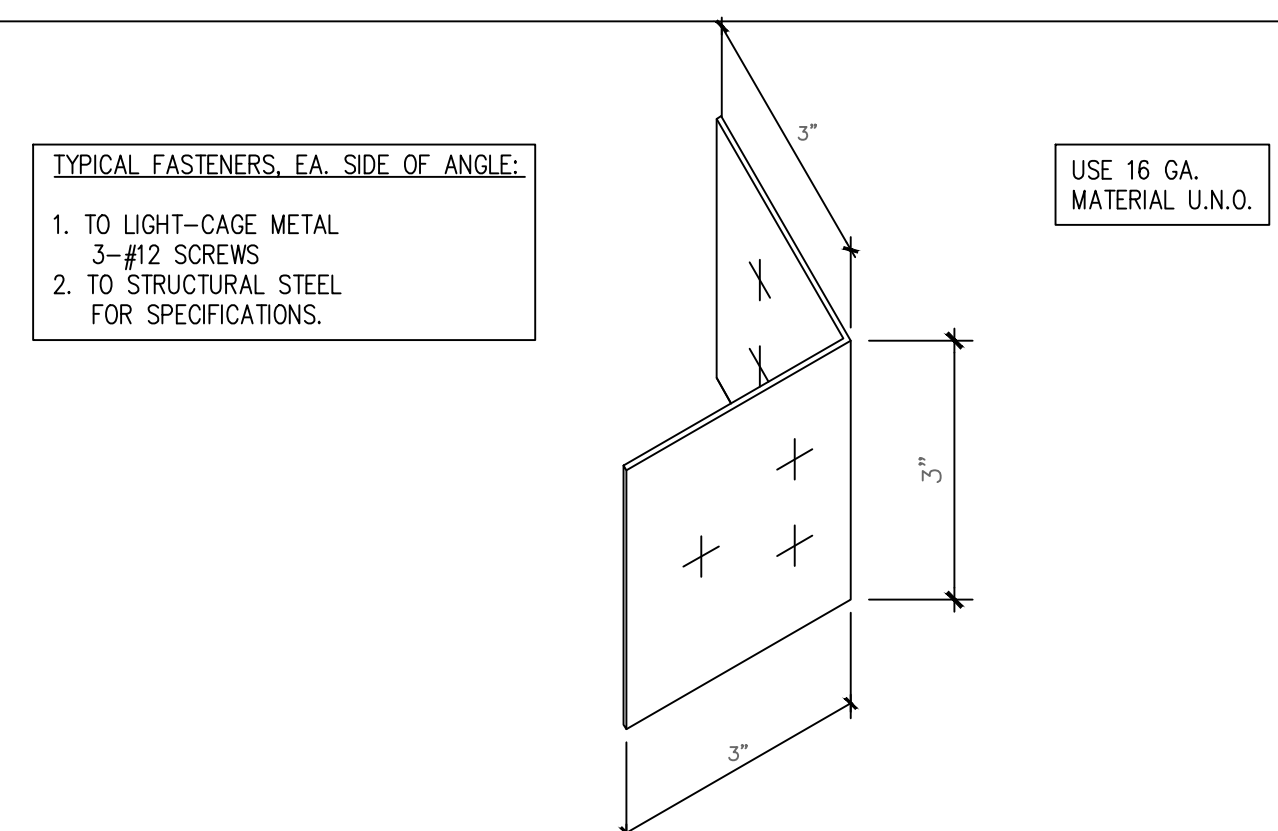
TYPICAL COLUMN/WALL ATTACHMENT



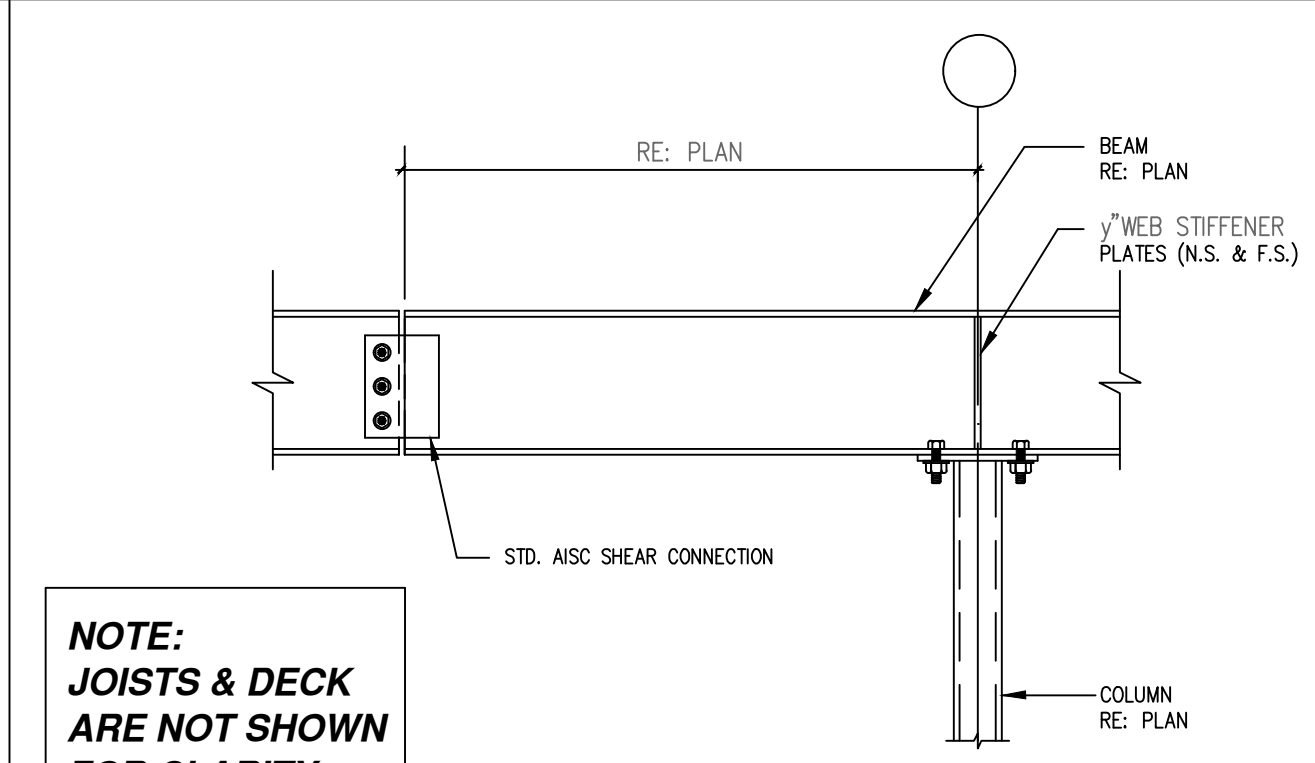
2 SECTION: TYPICAL BEAM TO BEAM SHEAR CONNECTION



5 SECTION: TYPICAL STRUT JOIST DETAIL

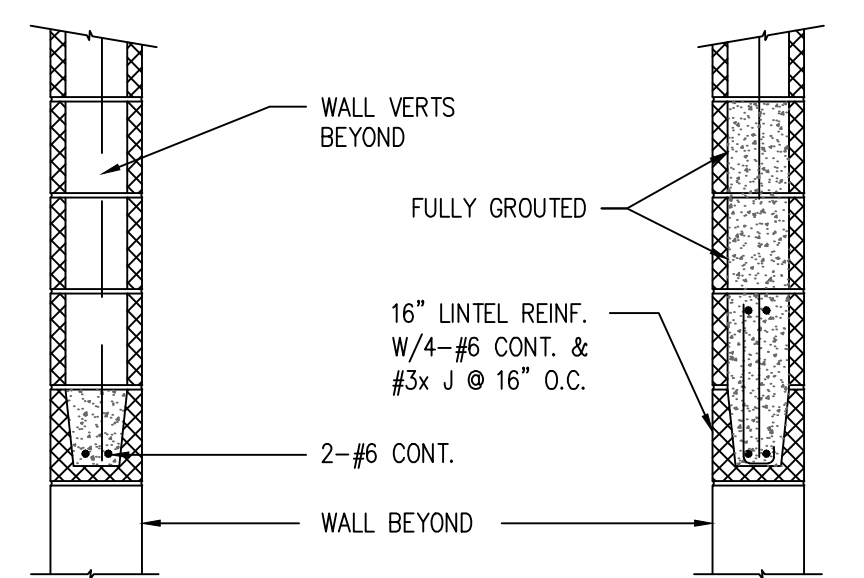


8 SECTION: TYPICAL LIGHT-GAGE FRAMING ANGLE

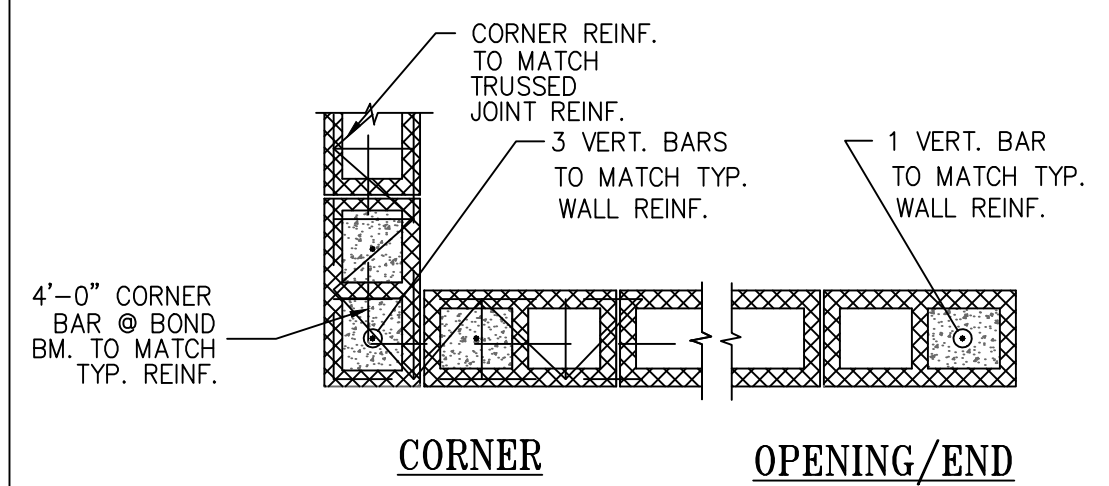


NOTE:
JOISTS & DECK
ARE NOT SHOWN
FOR CLARITY.

10 SECTION: CANTILEVER BEAM DETAILS



6 SECTION: TYPICAL RTU TO JOIST CONNECTION

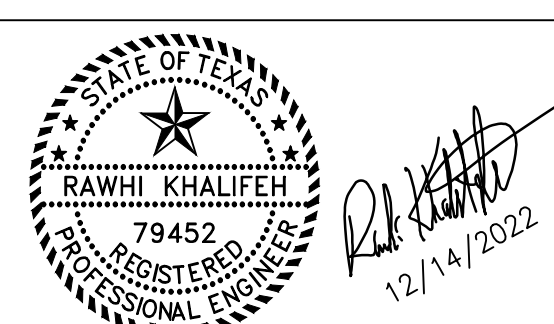


CORNER **OPENING/END**

OPENINGS 6'-0" OR SMALLER **OPENINGS 6'-0" TO 15'-0"**

- NOTES**
1. PROVIDE 8" MIN. BEARING OF LINTEL BEAM @ EACH END.
 2. SHORE LINTELS FOR A MINIMUM OF 14 DAYS AFTER PLACEMENT.
 3. PROVIDE 1 TYPICAL VERT. BAR FULL HEIGHT OF WALL @ EACH JAMB.

LINTELS



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TYPICAL FRAMING SECTIONS & DETAILS
DRAWN BY: BM DATE: 9-15-2021 SHEET: **S6.0**
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GENERAL NOTES (APPLICABLE TO ALL DRAWINGS)

- DRAWINGS MAY NOT REFLECT EXISTING CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ACTUAL EXISTING CONDITIONS PRIOR TO SUBMITTING BID. BEFORE EXECUTING CONTRACT CONTRACTOR SHALL NOTIFY ARCHITECT OF EACH EXISTING CONDITION THAT VARIES FROM THE CONDITION INDICATED ON DRAWINGS. CONTRACTOR WILL NOT BE COMPENSATED EXTRA FOR WORK RESULTING FROM FAILURE BY CONTRACTOR TO COMPLY WITH THIS REQUIREMENT.
- CONTRACTOR SHALL COORDINATE WORK OF THE MECHANICAL, ELECTRICAL, AND PLUMBING (M.E.P.) DISCIPLINES WITH WORK OF ALL OTHER DISCIPLINES.
- WORK OF THE M.E.P. TRADES MAY BE SHOWN ON OTHER DRAWINGS INCLUDING BUT NOT LIMITED TO ARCHITECTURAL AND STRUCTURAL DRAWINGS. WHERE FEATURES ARE INDICATED ON MORE THAN ONE DRAWING (FOR EXAMPLE, THE REFLECTED CEILING PLAN MAY APPEAR ON ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS), CONTRACTOR SHALL CONTACT ARCHITECT TO RESOLVE CONFLICTS. SUCH CONTACT SHALL BE MADE IN WRITING PRIOR TO THE COMMENCEMENT OF WORK BY THE CONTRACTOR.
- CONTRACTOR SHALL COORDINATE DEMOLITION WORK AMONG THE TRADES. BY WAY OF EXAMPLE, BUT NOT EXCLUSION, MECHANICAL DEMOLITION SHALL BE COORDINATED WITH ELECTRICAL DEMOLITION INCLUDING POWER, CONTROL, COMMUNICATION AND MONITORING. DAMAGE CAUSED TO EXISTING SYSTEMS AND/OR EXISTING FEATURES OF THE BUILDING DURING DEMOLITION OR OTHER PHASES OF CONSTRUCTION SHALL BE REPAIRED BY CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- M.E.P. WORK REQUIRES CUTTING, PATCHING, AND REINFORCING OF ADJACENT SURFACES AND FEATURES OF THE BUILDING. CONTRACTOR SHALL PERFORM ALL SUCH WORK AT NO ADDITIONAL COST TO OWNER. REPAIRED SURFACES SHALL BE FINISHED TO MATCH THE EXISTING SURROUNDING AREA.
- CONTRACTOR SHALL COMPLY WITH ALL LOCAL, COUNTY, STATE, AND FEDERAL CODES, ORDINANCES, RULES AND REGULATIONS. IN THE EVENT OF CONFLICT BETWEEN CONTRACT DOCUMENTS AND CODES, ORDINANCES, RULES AND REGULATIONS, THE MOST RIGID SHALL APPLY.
- CONTRACTOR SHALL NOT REMOVE PLUMBING AND HVAC EQUIPMENT THAT IS NOT CODED WITH HATCH MARKS ON DRAWINGS. CONTRACTOR SHALL FURNISH ALL EQUIPMENT, MATERIAL, AND LABOR, WHETHER OR NOT SHOWN ON DRAWINGS, NECESSARY TO PROVIDE A COMPLETE, OPERATIONAL, CODE-COMPLIANT SYSTEM.
- CONTRACTOR SHALL NOT CUT, DRILL, OR ALTER ANY ELEMENT OF WALLS, FLOORS CEILINGS, ROOFS, SLABS, ETC., WITHOUT FIRST RECEIVING ARCHITECT'S APPROVAL. ALL CUTS SHALL BE MADE WITH ARCHITECT-APPROVED CUTTING TOOLS.
- IN THE EVENT THAT CONTRACTOR FINDS DISCREPANCIES OR OMISSIONS, OR IS IN DOUBT AS TO THE EXACT MEANING OF THE PLANS AND/OR SPECIFICATIONS, CONTRACTOR SHALL, BEFORE COMMENCING WORK ON THE AREA IN QUESTION, CONTACT ARCHITECT FOR CLARIFICATION.
- SUBMITTALS: CONTRACTOR SHALL SUBMIT PRODUCT DATA SHEETS FOR ALL M.E.P. EQUIPMENT. SAID SUBMITTALS MUST BE BOUND TOGETHER (PARTIAL SUBMITTALS NOT ACCEPTABLE) AND SHALL INCLUDE MANUFACTURER MODEL NUMBER, PHYSICAL DIMENSIONS AND PERFORMANCE RATINGS CLEARLY IDENTIFIED BY SAME IDENTIFICATION SCHEDULED ON DRAWINGS. DATA SHEETS SHALL INDICATE MODEL NUMBERS, PARTS, DIMENSIONS AND VALUES WHICH APPLY TO THE PRODUCTS BEING PROPOSED. NEATLY CIRCLE OR DRAW ARROWS TO IMPORTANT INFORMATION. IF CONTRACTOR PLACES ORDERS AND/OR PROCEEDS WITH WORK PRIOR TO RECEIPT OF ARCHITECT'S APPROVAL OF SUBMITTAL DATA, SUCH ACTION SHALL BE AT CONTRACTOR'S SOLE RISK. IN THE EVENT THAT SUBMITTAL DATA IS REJECTED BY ARCHITECT, CONTRACTOR SHALL CANCEL ALL RELATED ORDERS AND REPLACE ALL RELATED WORK AT CONTRACTOR'S SOLE EXPENSE. ANY SCHEDULE PROGRESS IMPACT CAUSED BY CONTRACTOR PROCEEDING IN ADVANCE OF ARCHITECT'S APPROVAL OF SUBMITTAL DATA SHALL BE AGAINST CONTRACTOR'S ACCOUNT.
- IF CONTRACTOR DESIRES TO USE MATERIAL OF EQUAL QUALITY OTHER THAN THAT SPECIFIED, CONTRACTOR SHALL SUBMIT WRITTEN REQUEST FOR APPROVAL TO ARCHITECT AT LEAST SEVEN CALENDAR DAYS BEFORE THE DATE SET FOR BIDDING. BY OFFERING A SUBSTITUTION, CONTRACTOR ACCEPTS SOLE RESPONSIBILITY FOR EFFECT OF SUBSTITUTION ON THE WORK OF ALL TRADES. ALL COSTS OF CHANGES RESULTING FROM THE INCLUSION OF SUBSTITUTIONS SHALL BE BORNE BY CONTRACTOR.

GENERAL NOTES (CONT.)

- PROVIDE TEMPORARY SERVICES AND CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. WHEN WORK MUST BE PERFORMED ON ENERGIZED EQUIPMENT OR CIRCUITS, USE PERSONNEL EXPERIENCED IN SUCH OPERATIONS.
- MAINTAIN ACCESS TO EXISTING ELECTRICAL, MECHANICAL AND PLUMBING INSTALLATIONS WHICH REMAIN ACTIVE. MODIFY INSTALLATION OR PROVIDE ACCESS AS APPROPRIATE.
- EXTEND EXISTING INSTALLATIONS USING MATERIALS AND METHODS COMPATIBLE WITH EXISTING INSTALLATIONS, UNLESS INDICATED OTHERWISE ON DRAWINGS.
- THE CONTRACTOR SHALL PROVIDE CONTAINMENT AND DISPOSE OF DUST AND DEBRIS DURING DEMOLITION AND CONSTRUCTION.
- AT FINAL COMPLETION OF THE PROJECT, ALL M.E.P. PRODUCTS, EQUIPMENT, AND SYSTEMS SHALL OPERATE UNDER ALL CONDITIONS OF LOAD WITHOUT ANY SOUND OR VIBRATION WHICH IS OBJECTIONABLE IN THE OPINION OF THE ENGINEER. SOUND OR VIBRATION NOTICEABLE OUTSIDE THE SPACE OF A PRODUCT WILL BE CONSIDERED OBJECTIONABLE. VIBRATION WHICH, IN THE OPINION OF ENGINEER WILL IMPACT ON THE LIFE, WARRANTY, OR PERFORMANCE OF A PRODUCT IS CONSIDERED OBJECTIONABLE. SOUND OR VIBRATION CONDITIONS CONSIDERED OBJECTIONABLE BY ENGINEER SHALL BE CORRECTED BY CONTRACTOR AT CONTRACTOR'S EXPENSE. VIBRATION CONTROL SHALL BE BY MEANS OF VIBRATION ELIMINATORS INSTALLED IN THE MANNER RECOMMENDED BY THE MANUFACTURER OF THE SUPPORTED EQUIPMENT.
- CONTRACTOR SHALL LOCATE ALL EQUIPMENT AND PRODUCTS WHICH REQUIRE SERVICE, OPERATION, OBSERVATION, OR MAINTENANCE IN FULLY ACCESSIBLE POSITIONS. IF REQUIRED FOR BETTER ACCESSIBILITY, ANY CHANGE(S) OF LOCATION SHALL BE SUBMITTED BY CONTRACTOR TO ENGINEER FOR REVIEW AND APPROVAL BEFORE RELOCATION IS MADE. CONTRACTOR SHALL PROVIDE ACCESS PANELS FOR CONCEALED VALVES, FIRE DAMPERS, AND OTHER DEVICES REQUIRING SERVICE. ACCESS PANELS IN THE SURFACES OF THE PREMISES, EQUIPMENT, DUCTWORK, AND OTHER SURFACES, WHETHER OR NOT SPECIFICALLY SHOWN ON THE DRAWINGS, SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR AT NO ADDITIONAL COST TO OWNER. ACCESS PANELS SHALL BE OF A TYPE AND FINISH WHICH, IN THE OPINION OF ARCHITECT, ARE AESTHETICALLY ACCEPTABLE.
- CONTRACTOR IS RESPONSIBLE FOR PROPER SUPPORT OF ALL EQUIPMENT, DUCTWORK, PIPING, CONDUITS, ETC. COORDINATE EXACT LOCATION OF ALL M.E.P. ITEMS (I.E., DUCTWORK, PIPING, CONDUITS, ETC.), WITH STRUCTURAL, ARCHITECTURAL, OTHER DISCIPLINES.
- ALL PRODUCTS, MATERIALS, WORK, AND TECHNIQUES SHALL COMPLY WITH THE MOST RIGID STANDARDS AND RECOMMENDATIONS OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA); THE INTERNATIONAL CODES (PLUMBING, GAS, MECHANICAL, ELECTRICAL, AND BUILDING) AS MODIFIED AND/OR ADAPTED BY LOCAL AUTHORITIES; THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME); THE AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM); AND THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI). ALL MATERIALS AND EQUIPMENT FOR THE ELECTRICAL PORTION OF THE MECHANICAL SYSTEMS SHALL BEAR THE APPROVAL LABEL OF UNDERWRITERS LABORATORIES, INC. (UL).
- THE CONTRACTOR SHALL PHASE DEMOLITION AND CONSTRUCTION WORK SUCH THAT OWNER'S NORMAL DAY-TO-DAY OPERATIONS CAN BE ACCOMPLISHED WITHOUT DELAY. THE CONTRACTOR SHALL COORDINATE PHASING AND SCHEDULING OF WORK WITH OWNER AND SHALL PROVIDE NIGHT AND WEEKEND CREWS IF REQUIRED BY OWNER. CONTRACTOR SHALL NOT BE COMPENSATED EXTRA FOR OVERTIME.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY POWER AND LIGHTING DURING DEMOLITION AND CONSTRUCTION PER INDUSTRY SAFETY STANDARDS.
- ALL MATERIALS DISCONNECTED AND REMOVED SHALL REMAIN THE PROPERTY OF THE OWNER, AND SHALL BE NEATLY PACKAGED BY THE CONTRACTOR FOR REUSE BY THE OWNER. THE OWNER SHALL DETERMINE WHAT DEMOLITION MATERIAL ARE TO BE SALVAGED. STOCKPILE SALVAGED MATERIALS IN AREAS DESIGNATED BY THE OWNER. CONTRACTOR SHALL REMOVE FROM SITE ITEMS WHICH OWNER DEFINES AS NON-SALVAGABLE.
- THE CONTRACTOR SHALL VISIT THE SITE DURING THE BIDDING PERIOD TO COMPLETELY FAMILIARIZE SELF WITH THE SCOPE OF WORK, CONDITIONS, AND VERIFY FIELD MEASUREMENTS AND CIRCUITING ARRANGEMENTS. INCLUDE IN THE BID ALL NECESSARY COSTS ASSOCIATED WITH PERFORMANCE OF THE WORK.

SUPPORT

- ADEQUATELY SUPPORT PIPING AGAINST SAGGING, POKETING, AND DISPLACEMENT.
- SIZE SLEEVES LARGE ENOUGH TO ALLOW FOR MOVEMENT DUE TO EXPANSION AND CONTRACTION. PROVIDE FOR CONTINUOUS INSULATION WRAPPING. SLEEVES FOR PIPES THROUGH NONFIRE RATED FLOORS: FORM WITH 18 GAGE GALVANIZED STEEL. ALL PENETRATIONS THROUGH FLOORS, WALLS AND CEILINGS, SHALL BE SEALED IN ACCORDANCE WITH THE GOVERNING REGULATIONS. ALL PIPES PASSING THROUGH FLOORS, WALLS, AND CEILINGS SHALL BE SLEEVED, INSULATED, AND SEALED.
- WALL SUPPORT FOR PIPE SIZES TO 3 INCHES : CAST IRON HOOK, WALL SUPPORT FOR PIPE SIZES 4 INCHES AND OVER: WELDED STEEL BRACKET AND WROUGHT STEEL CLAMP; ADJUSTABLE STEEL YOKE.
- VERTICAL SUPPORT: STEEL RISER CLAMP.
- FLOOR SUPPORT FOR PIPE SIZES TO 4 INCHES AND ALL COLD PIPE SIZES; CAST IRON ADJUSTABLE PIPE SADDLE, LOCKNUT NIPPLE, FLOOR FLANGE, AND CONCRETE PIER OR STEEL SUPPORT.
- COPPER PIPE SUPPORT: CARBON STEEL RING, ADJUSTABLE, COPPER PLATED.
- SHIELD FOR INSULATED PIPING 2 INCHES AND SMALLER: 18 GAGE GALVANIZED STEEL SHIELD OVER INSULATION IN 180 DEGREE SEGMENTS, MINIMUM 12 INCHES LONG AT PIPE SUPPORT.
- SHIELDS FOR INSULATED COLD WATER PIPING 2-1/2 INCHES AND LARGER HARD BLOCK NON-CONDUCTING SADDLES IN 90 DEGREE SEGMENTS, 12 INCH MINIMUM LENGTH, BLOCK THICKNESS SAME AS INSULATION THICKNESS.

DUCTWORK AND ACCESSORIES

- ALL DUCTWORK TO BE GALVANIZED STEEL, ASTM A525, LOCK-FORMING QUALITY, HAVING ZINC COATING OF 1.25 OZ PER SQ. FT. FOR EACH SIDE IN CONFORMANCE WITH ASTM A90.
- RECTANGULAR LOW-PRESSURE DUCTS: FOLLOW STANDARDS FOR 2" POSITIVE STATIC PRESSURE PER SMACNA-85 TABLE 1-7 AND INTERMEDIATE REINFORCEMENT TABLE 1-10 AND 1-11.
- PROVIDE ALL PURPOSE SEALANT FOR USE ON METAL DUCTS.
- FABRICATE MANUAL VOLUME CONTROL DAMPERS IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS. PROVIDE LOCKING, INDICATING QUADRANT REGULATORS, WHERE ROD LENGTHS EXCEED 30" PROVIDE REGULATOR AT BOTH ENDS.

SUPPORTS AND ANCHORS

- DUCT SUPPORT: PER SMACNA SECTION IV HANGERS AND SUPPORTS CHAPTER, FIG. 4-4, TABLES 4-1 FOR RECTANGULAR DUCTS AND TABLE 4-2 FOR ROUND DUCTS.
- STEEL HANGER RODS: THREADED BOTH ENDS, THREADED ONE END, OR CONTINUOUS THREADED. WIRE HANGERS ARE NOT ALLOWED.
- SLEEVES FOR RECTANGULAR DUCTWORK: FORM WITH GALVANIZED STEEL.

TESTING ADJUSTING AND BALANCING

- TESTING, ADJUSTING, AND BALANCING SHALL BE PERFORMED IN ACCORDANCE WITH NEBB.

MECHANICAL LEGEND

GENERAL		LINETYPES AND ABBREVIATIONS		DUCTWORK	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	DETAIL # # OF SHEET ON WHICH CONDITION IS DRAWN		NATURAL GAS LINE (LOW PRESSURE)		SUPPLY DUCTWORK UP
	NORTH DIRECTION		MEDIUM PRESSURE NATURAL GAS LINE		RETURN/EXHAUST DUCTWORK UP
	KEYED NOTES		CONDENSATE DRAIN LINE		SUPPLY DUCTWORK DOWN
	NEW EQUIPMENT		REFRIGERANT SUCTION LINE		RETURN DUCTWORK DOWN
	EXISTING EQUIPMENT		REFRIGERANT LIQUID LINE		SUPPLY REGISTER CFM'S, NECK SIZE AND TYPE
			ROOF TOP UNIT		RETURN REGISTER CFM'S, NECK SIZE AND TYPE
			EVAPORATIVE COOLER		
			EXHAUST FAN		
			RELIEF HOOD		
			EXISTING		

PIPING AND DUCTWORK INSULATION

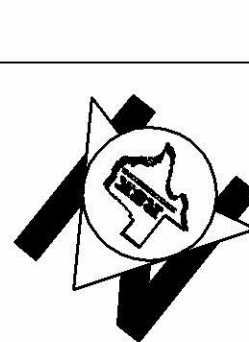
A. PLUMBING PIPING (GLASS FIBER):

- MANUFACTURERS: MANVILLE MICROLOK AP-T, OWENS CORNING ASJ/SSL-11, KNAUF PIPE INSULATION ASJ/SSL OR EQUAL.
- INSULATION: ASTM C547; RIGID MOLDED, NONCOMBUSTIBLE. INSULATION: ASTM C547; RIGID MOLDED. MINIMUM SERVICE TEMPERATURE: -60. F. MAXIMUM SERVICE TEMPERATURE: 850 F. MAXIMUM MOISTURE ABSORPTION: 0.2 PERCENT BY VOLUME. ALL THERMAL SYSTEM INSULATION (TSI) SHALL BE NON-ASBESTOS CONTAINING BUILDING MATERIAL.

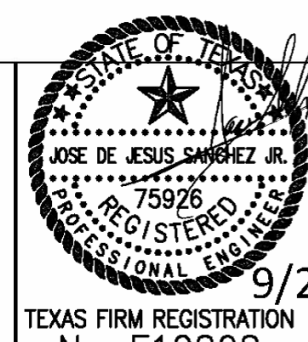
- VAPOR BARRIER JACKET, ASTM C921, WHITE KRAFT PAPER REINFORCED WITH GLASS FIBER YARN AND BONDED TO ALUMINIZED FILM. MOISTURE VAPOR TRANSMISSION: ASTM E96; 0.02 PER INCHES. SECURE WITH SELF SEALING LONGITUDINAL LAPS AND BUTT STRIPS. SECURE OUTWARD CLINCH EXPANDING STAPLES AND VAPOR BARRIER MASTIC.

B. DUCTWORK (GLASS FIBER, FLEXIBLE):

- MANUFACTURERS: MANVILLE R-SERIES MICROLITE, OWENS CORNING ASF(ALL SERVICE FACED), KNAUF MULTI-PURPOSE DUCT WRAP, OR EQUAL.
- INSULATION: 'K' VALUE: ASTM C518, 0.30 BTU-IN/H-FT²-F AT 75 F. MAXIMUM SERVICE TEMPERATURE: 250 F. MAXIMUM MOISTURE ABSORPTION: 0.20 PERCENT BY VOLUME. DENSITY: 1.0 LB/CU FT. THICKNESS: 1.5 INCHES.
- VAPOR BARRIER JACKET, KRAFT PAPER REINFORCED WITH GLASS FIBER YARN AND BONDED TO ALUMINIZED FILM. MOISTURE VAPOR TRANSMISSION: ASTM E96; 0.02 PERM.



GRAPHIC SCALE



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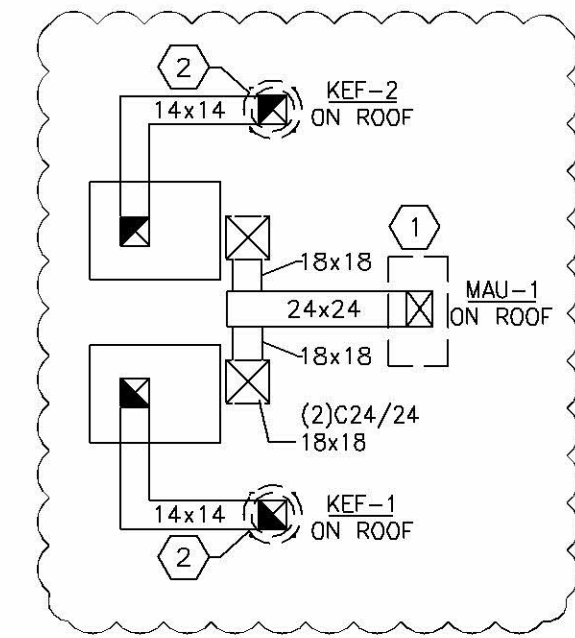
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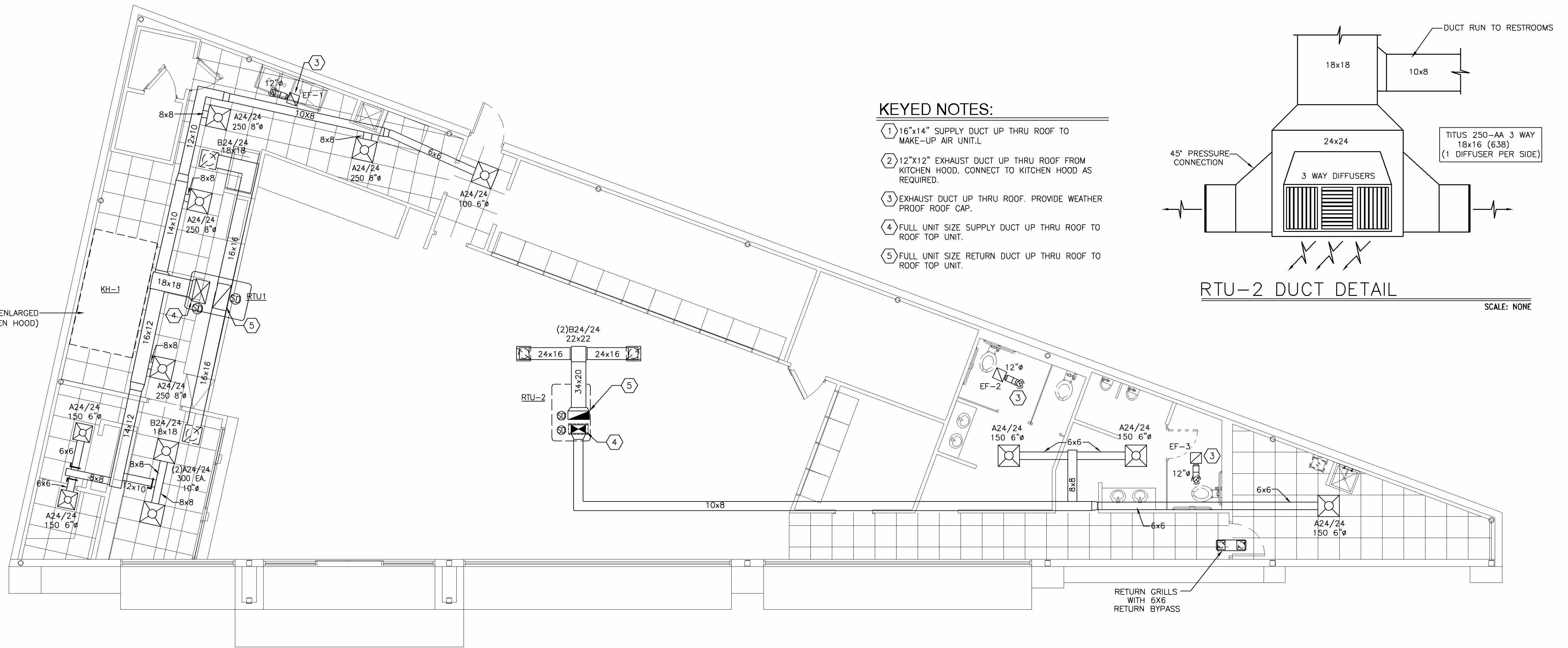
MECHANICAL LEGEND & GENERAL NOTES

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CHECKED BY: RSK	PROJ. NO.: VR151003.317.4	



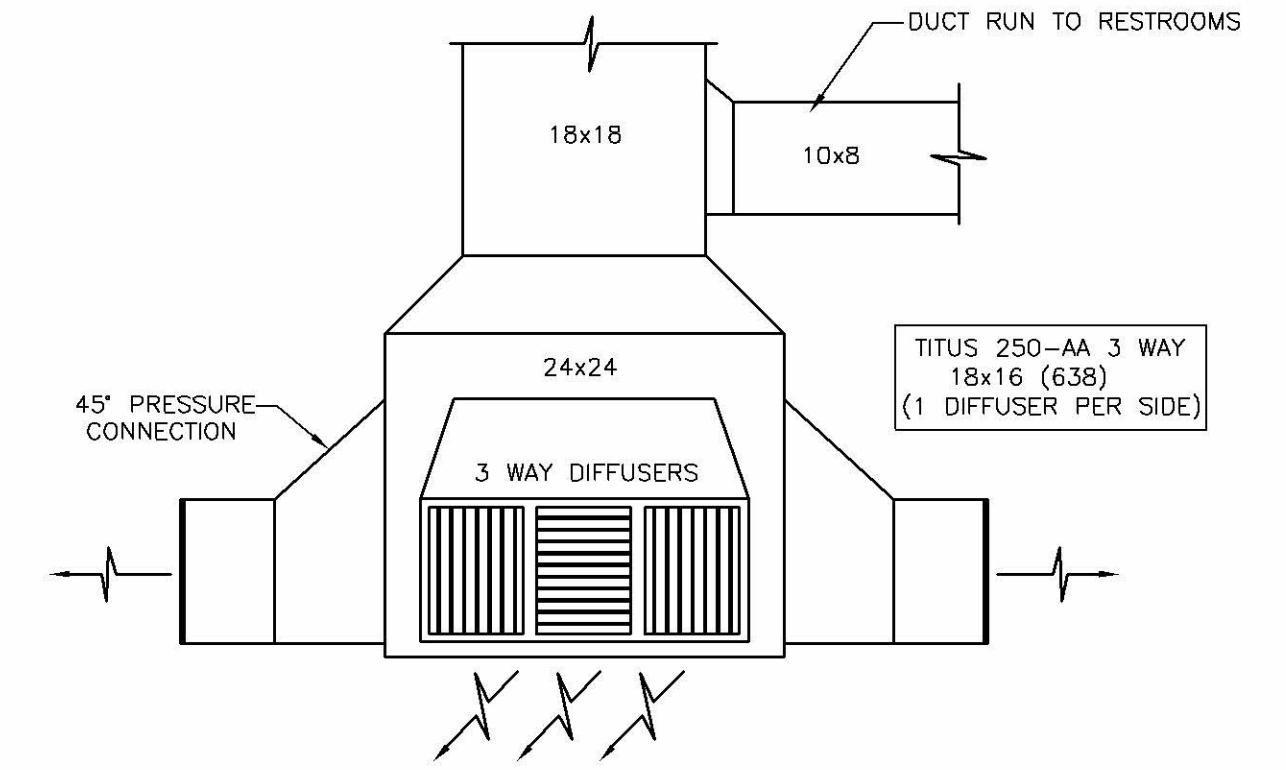
ENLARGED KITCHEN HOOD

(SEE ENLARGED KITCHEN HOOD)



KEYED NOTES:

- ① 16"x14" SUPPLY DUCT UP THRU ROOF TO MAKE-UP AIR UNIT.
- ② 12"x12" EXHAUST DUCT UP THRU ROOF FROM KITCHEN HOOD. CONNECT TO KITCHEN HOOD AS REQUIRED.
- ③ EXHAUST DUCT UP THRU ROOF. PROVIDE WEATHER PROOF ROOF CAP.
- ④ FULL UNIT SIZE SUPPLY DUCT UP THRU ROOF TO ROOF TOP UNIT.
- ⑤ FULL UNIT SIZE RETURN DUCT UP THRU ROOF TO ROOF TOP UNIT.

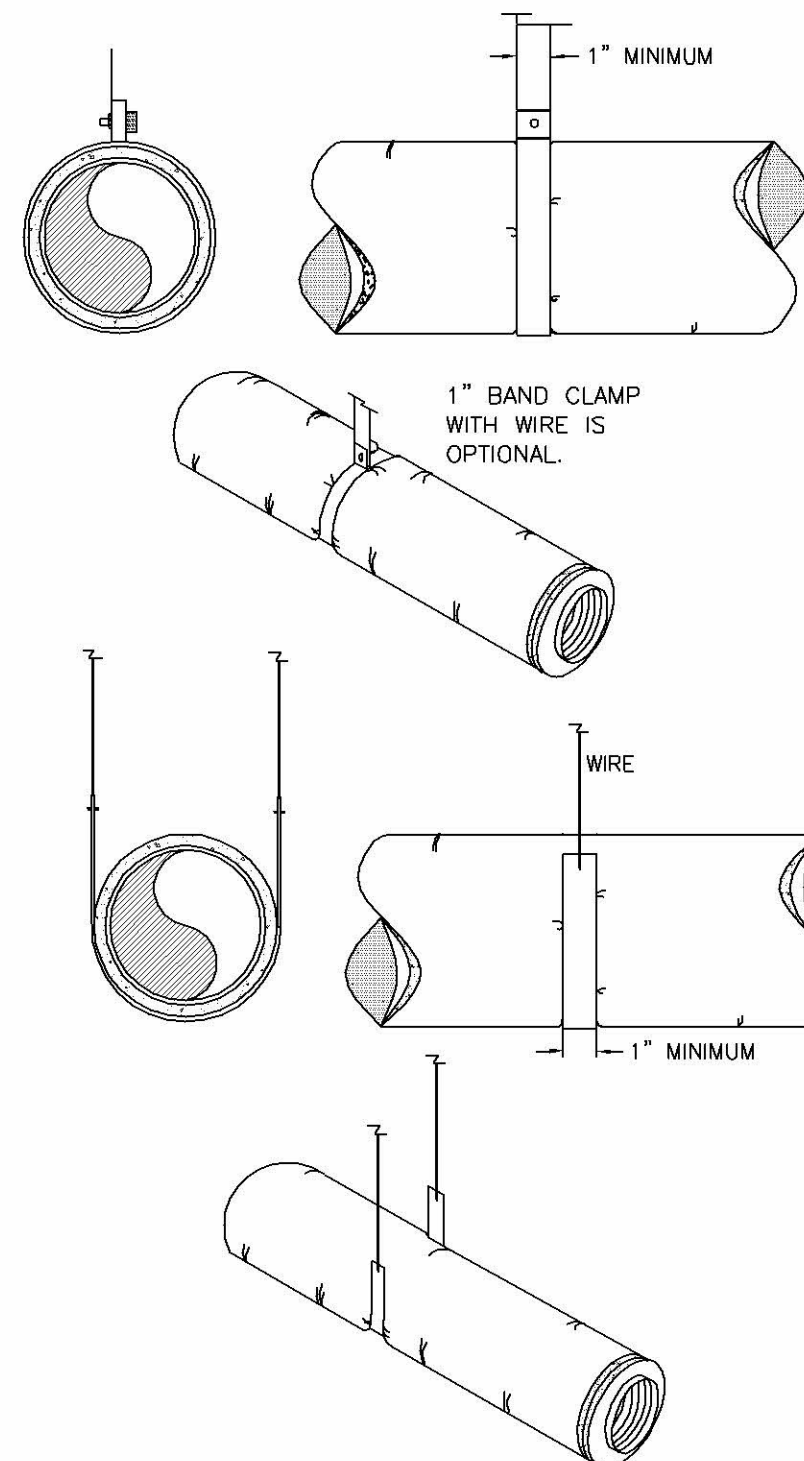


RTU-2 DUCT DETAIL

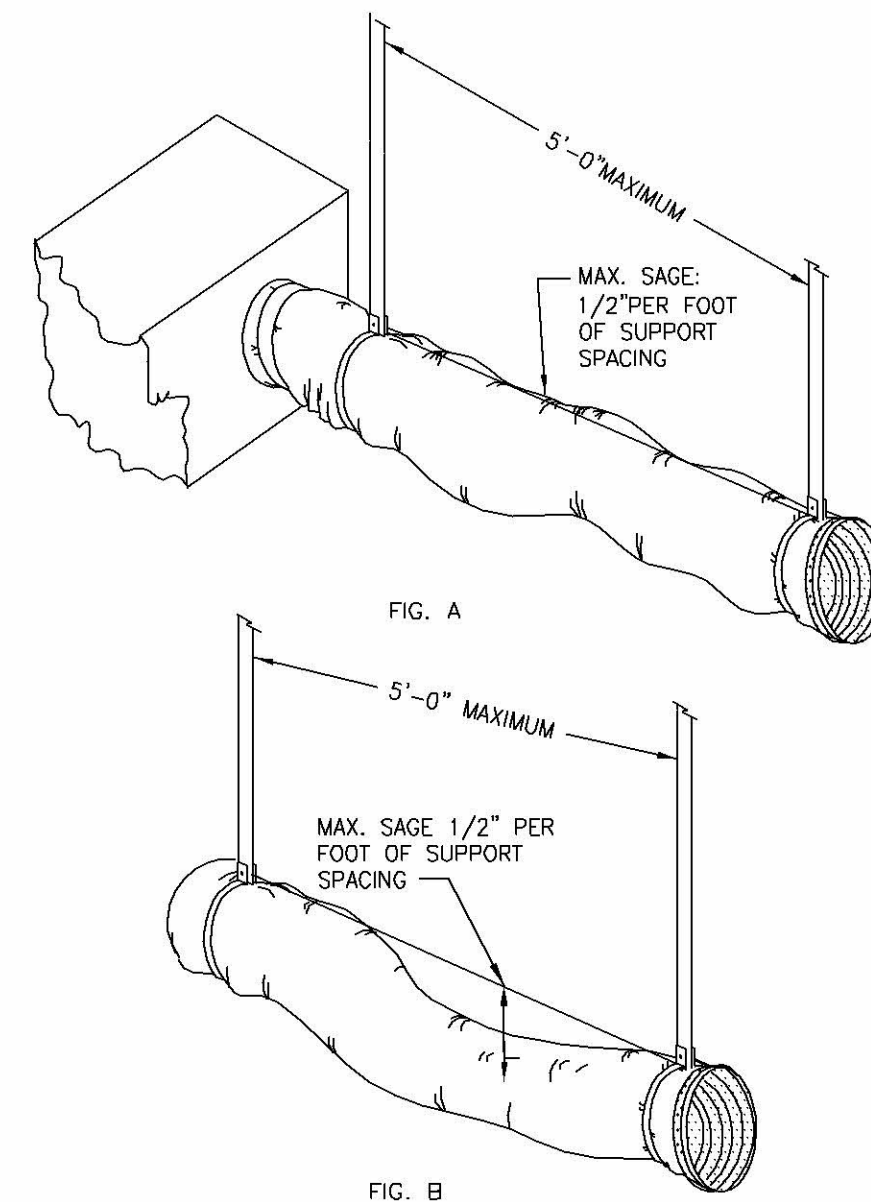
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MECHANICAL FLOOR PLAN

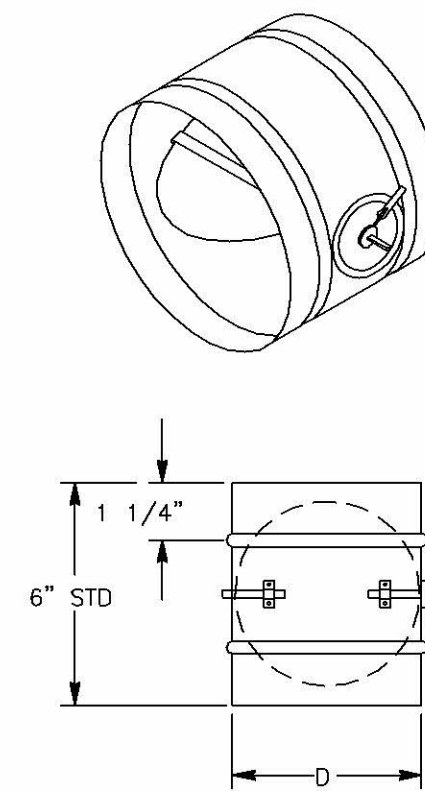
SCALE: 3/16"=1'-0"



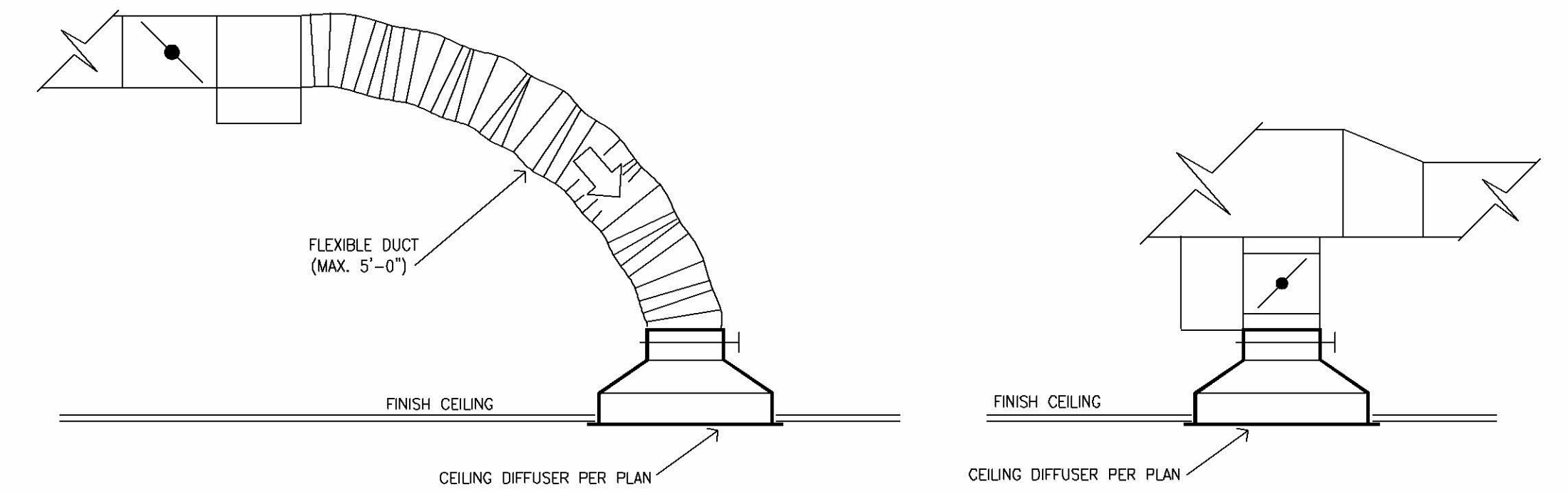
3 TYPICAL ROUND DUCT SUPPORT DETAILS
SCALE: NONE



4 TYPICAL FLEXIBLE DUCT SUPPORT DETAILS
SCALE: NONE



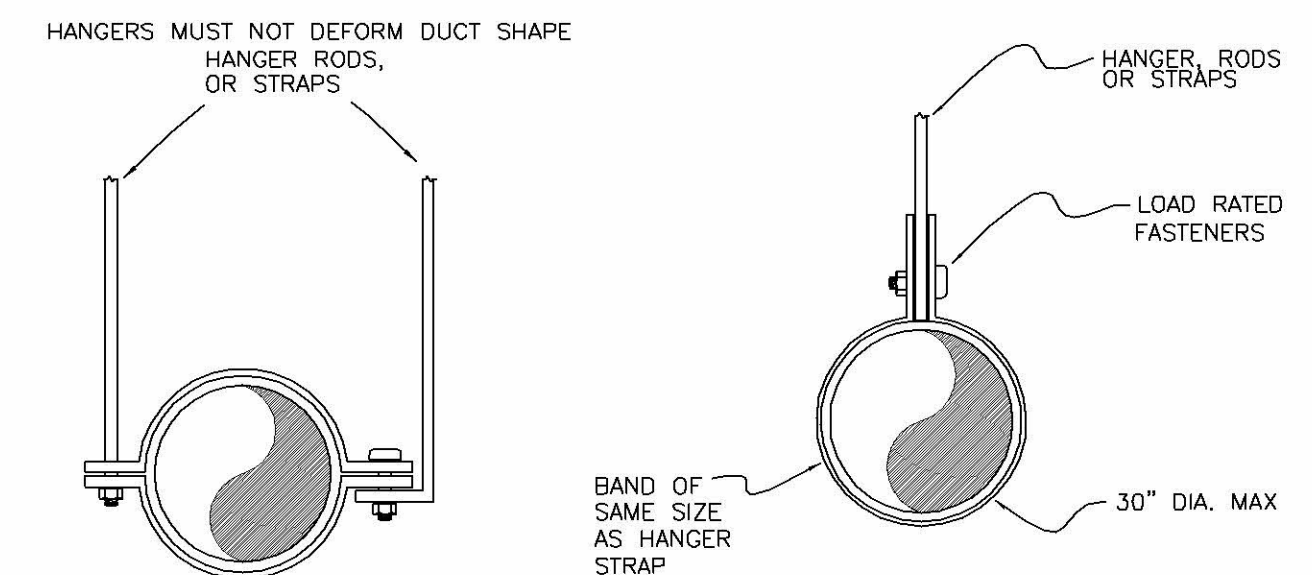
5 TYPICAL VOLUME DAMPER DETAIL
SCALE: NONE



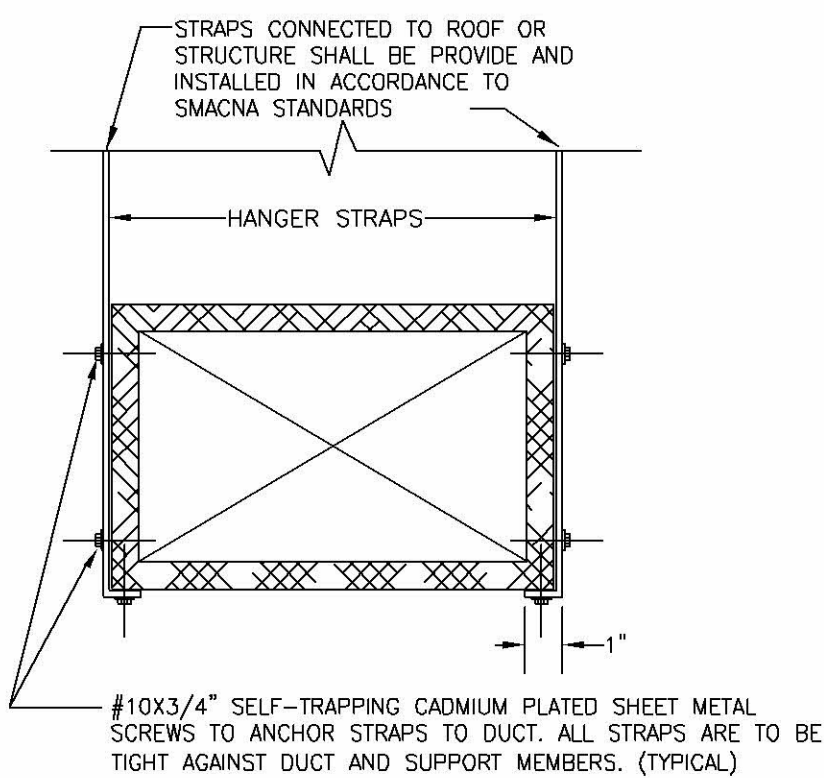
1 TYPICAL VOLUME DAMPER, DIFFUSER AND/OR FLEX DUCT CONNECTION DETAIL
SCALE: NONE

NOTE:

1. 22 GAUGE GALVANIZED STEEL FRAME, 6" LONG STANDARD AND DOUBLE BEADED.
2. 22 GAUGE GALVANIZED STEEL BLADE WITH CENTER "V" BREAK.
3. 3/8" SQUARE ZINC PLATED STEEL BLADE SHAFTS WITH TIGHT SEALING NYLON BUSHINGS.
4. ALL STEEL PARTS WITH GALVANIZED FINISH OR ZINC PLATING.
5. MAXIMUM OPERATING TEMPERATURE SHALL BE 250° F.
6. FACTORY MOUNTED MANUAL LOCKING QUADRANT TO DAMPER SLEEVE.
7. MAXIMUM DIAMETER 24", MINIMUM DIAMETER 4".
8. DAMPERS SHALL BE APPROXIMATELY 1/8" UNDER NOMINAL DIAMETER.

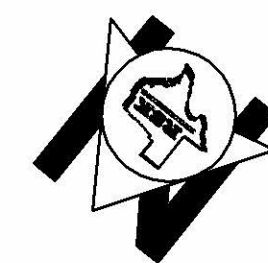


6 TYPICAL HANGER DUCT DETAIL
SCALE: NONE



2 TYPICAL DUCT STRAP HANGER DETAIL

GRAPHIC SCALE



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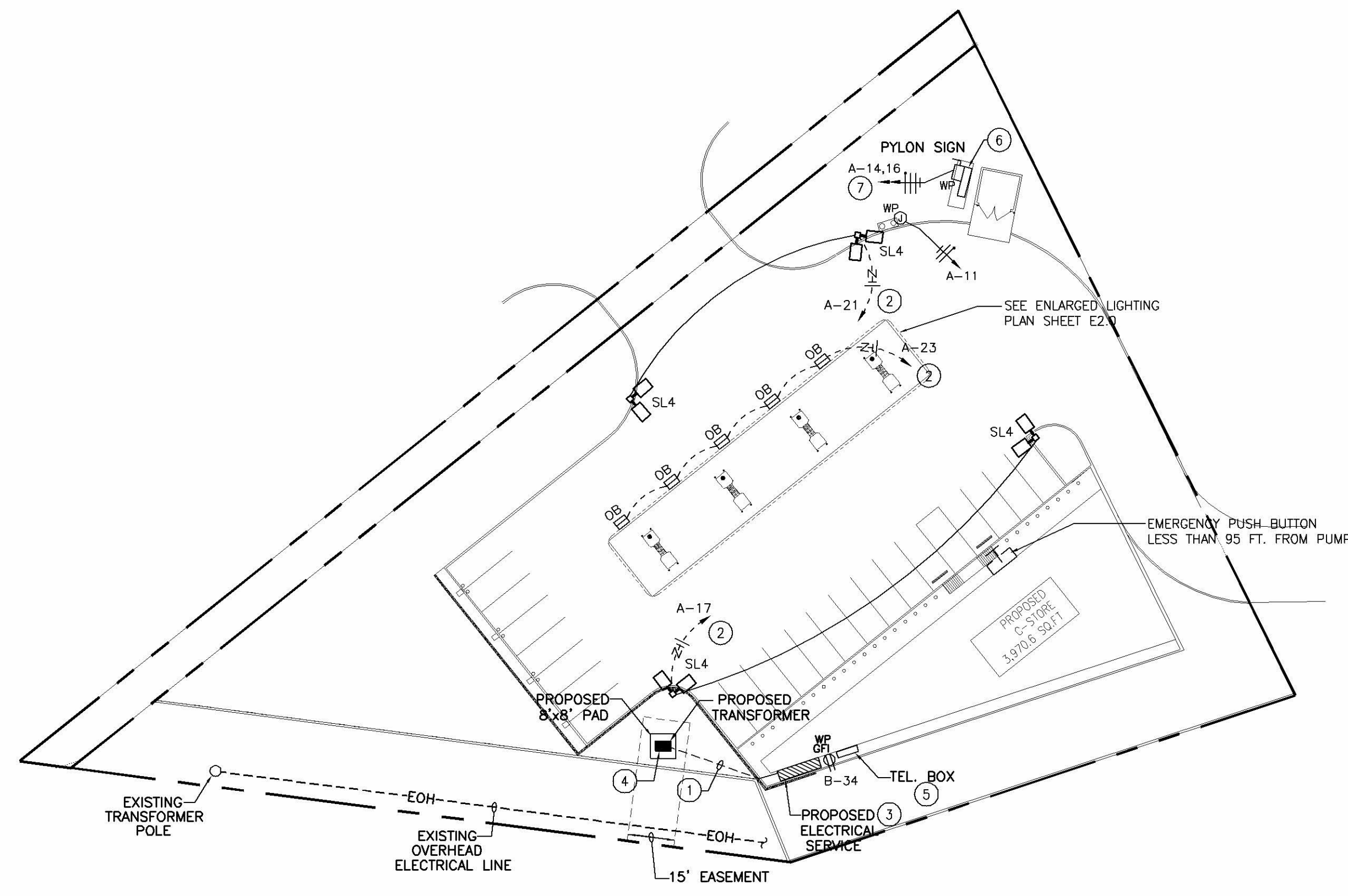
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MECHANICAL FLOOR PLAN

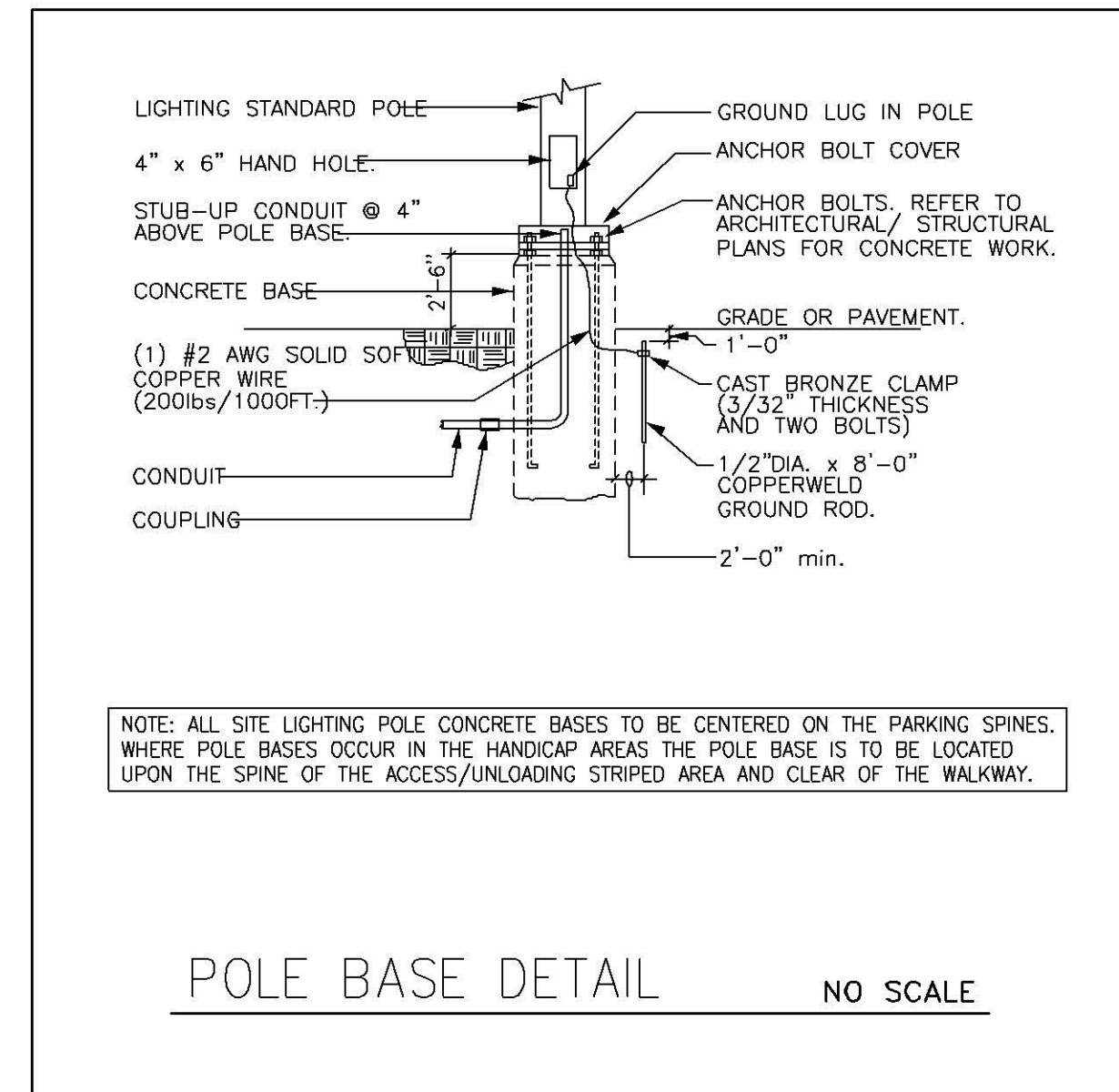
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CHECKED BY: RSK	PROJ. NO.: VR151003.317.4		

KEYED NOTES: (THIS SHEET ONLY)

- 1 PROVIDE (2) 4" CONDUITS FROM POLE MOUNTED TRANSFORMER TO NEW ELECTRICAL METER CAN AS SHOWN FOR UNDERGROUND ELECTRICAL SERVICE CONDUCTORS. REFER TO SHEET E4.0 FOR MORE INFORMATION.
- 2 THIS CIRCUIT TO BE WIRE THRU TIMER CONTACTOR, TIME CONTACTOR TO BE CONTROLLED BY PHOTOCELL ON ROOF. USE 1" CONDUIT W/2-#10 CU. CONDRS. AND 1-#10 CU GND.
- 3 PROPOSED MAIN ELECTRICAL SERVICE FOR GAS STATION INSTALL MAIN, GUTTER, METER CANS, TENANTS DISCONNECTS AND METERS. REFER TO ELECTRICAL RISER DIAGRAM SHEET E4.0
- 4 PROPOSED PADMOUNT TRANSFORMER LOCATION. SERVICE SHALL BE 120/208V, 3Ø, 4W. ELECTRICAL CONTRACTOR TO COORDINATE WITH ELECTRIC COMPANY AND OWNER FOR EXACT LOCATION PRIOR TO DOING ANY WORK.
- 5 PROPOSED LOCATION OF AT&T TELEPHONE BOX. PROVIDE (1) 2" CONDUIT WITH PULLSTRING FROM BOX TO END OF PROPERTY. COORDINATE WITH AT&T FOR EXACT LOCATION OF TERMINATION POINT AND REQUIREMENTS.
- 6 PROPOSED LOCATION OF PYLON SIGN. PROVIDE 208V, 2 POLE 30A CIRCUIT BREAKER COORDINATE WITH OWNER BEFORE ROUGH-IN.
- 7 THESE CIRCUIT TO BE WIRE THRU TIMER CONTACTOR, TIME CONTACTOR TO BE CONTROLLED BY PHOTOCELL ON ROOF. USE 3/4" CONDUIT W/3-#8 CU. CONDRS. AND 1-#8 CU GND.
- 8 THIS CIRCUIT TO BE WIRE THRU TIMER CONTACTOR, TIME CONTACTOR TO BE CONTROLLED BY PHOTOCELL ON ROOF. USE 3/4" CONDUIT W/2-#10 CU. CONDRS. AND 1-#10 CU GND.
- 9 INSTALL 3/4" CONDUIT UNDERGROUND WITH PULLSTRING FOR EACH GAS DISPENSER FOR POWER. CONTRACTOR TO COORDINATE ALL CONDUIT RUNS AND REQUIREMENTS WITH OWNER BEFORE ROUGH-IN.
- 10 INSTALL 3/4" CONDUIT UNDERGROUND WITH PULLSTRING FOR EACH GAS DISPENSER FOR PA CONTROLLER. COORDINATE WITH OWNER FOR EXACT LOCATION. CONTRACTOR TO COORDINATE ALL CONDUIT RUNS AND REQUIREMENTS WITH OWNER BEFORE ROUGH-IN.
- 11 INSTALL 3/4" CONDUIT UNDERGROUND WITH PULLSTRING FOR EACH GAS DISPENSER FOR PUMP DISTRIBUTION BOX. COORDINATE WITH OWNER FOR EXACT LOCATION. CONTRACTOR TO COORDINATE ALL CONDUIT RUNS AND REQUIREMENTS WITH OWNER BEFORE ROUGH-IN.
- 12 INSTALL 3/4" CONDUIT UNDERGROUND WITH PULLSTRING FOR EACH GAS DISPENSER FOR INTERCOMM. COORDINATE WITH OWNER FOR EXACT LOCATION. CONTRACTOR TO COORDINATE ALL CONDUIT RUNS AND REQUIREMENTS WITH OWNER BEFORE ROUGH-IN.



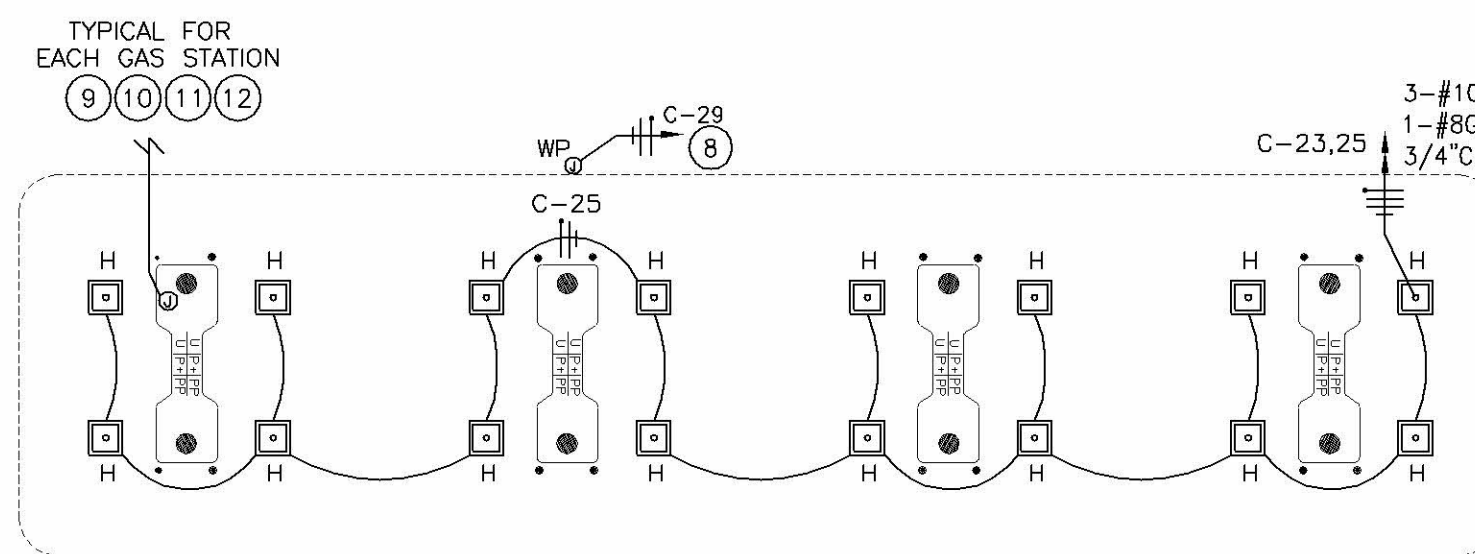
ELECTRICAL SITE PLAN N.T.S.



POLE BASE DETAIL NO SCALE

ELECTRICAL MATERIAL AND EQUIPMENT NOTE:

- A) NO ELECTRICAL MATERIALS, APPARATUS, DEVICES, APPLIANCES, FIXTURES, OR EQUIPMENT SHALL BE SOLD OR INSTALLED IN THE CITY UNLESS THEY ARE IN CONFORMANCE WITH THE PROVISIONS OF THIS CODE, THE LAWS OF THE STATE OF TEXAS AND ANY APPLICABLE RULES AND REGULATIONS ISSUED UNDER THE AUTHORITY OF THE STATE STATUTES. THE MAKER'S NAME, TRADEMARK, OR OTHER IDENTIFICATION SYMBOL SHALL BE PLACED ON ALL ELECTRICAL MATERIALS, APPARATUS, DEVICES, APPLIANCES, FIXTURES, AND EQUIPMENT USED OR INSTALLED UNDER THIS DIVISION.
- B) IN GENERAL ANY TYPE OF WIRING OR WIRING SYSTEM MAY BE USED AS APPROVED IN THE NATIONAL CODES ADOPTED IN THIS CHAPTER, EXCEPT WHERE SPECIFICALLY PROHIBITED IN THIS DIVISION.
- C) ANY WIRE OR CABLE UTILIZING ALUMINUM CONDUCTORS OR COPPER-CLAD ALUMINUM CONDUCTORS, SMALLER THAN NO. 2 AMERICAN WIRE GAUGE, IS PROHIBITED.
- D) ALL LATERAL SERVICE ENTRANCE CONDUCTORS SHALL BE INSTALLED IN AN APPROVED RACEWAY, EXCEPT FOR TEMPORARY SERVICE POLES.
- E) ALUMINUM WIRING ALUMINUM WIRING IS NOT ACCEPTABLE FOR ANY WIRING SYSTEM, RESIDENTIAL OR COMMERCIAL, IN THIS JURISDICTION.

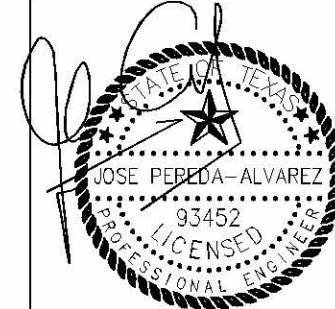


ENLARGED PUMP STATIONS ELECTRICAL POWER PLAN N.T.S.

FIXTURE SCHEDULE				
TYPE	DESCRIPTION	LAMPS	MOUNTING	COMMENTS
A	COPPER HALO PD620ED010 / PDM6A840 / 61V	LED 21W, 2K LUMENS, 4K'	RECESSED	
A1	COPPER MC GRAW-EDISON TLED-LD1-11-M-UNV-L840-CD1-PM-WHT	LED 108W, 11K LUMENS, 4K'	PENDANT	
A1E	COPPER TLED-LD1-11-M-UNV-L840-CD1-PM-WHT-IBP (120V)	LED 108W, 11K LUMENS, 4K'	PENDANT	
C	COPPER 4VT2-LD4-6-DR-W-UNV-L840-CD1-WL-U	57.5W, 6K LUMENS, 4K'	SURFACE	
F	COPPER 22CZ-LD5-44SE-UNV-L850-CD1-U	41.8 W, 4891 LUMENS, 4K'	RECESSED	
FE	COPPER 22CZ-LD5-44SE-UNV-EL14W-L850-CD1-U	41.8 W, 4891 LUMENS, 4K'	RECESSED	
G	COPPER PR820D010 / PR8M12WDMW	LED 22W, 2000 LUMENS, 4K'	RECESSED	UL W/D LOCATION
H	COPPER XTOR2B-W	18W, 2135 LUMENS, 4K'	WALL	
J	COPPER TT-C6-LED-E1-CO-STD FINISH	108W, 12K LUMENS, 4K'	CANOPY	UL W/D LOCATION
SL2	COPPER GLEON-AF-04-LED-E1-SL2-STD FINISH (1 HEAD PER POLE)	225W, 23522 LUMENS, 4K'	POLE	
SL4	COPPER GLEON-AF-04-LED-E1-SL4-STD FINISH (2 HEADS @ 90°)	450W, 47044 LUMENS, 4K'	POLE	
SWQ	COPPER GLEON-AF-04-LED-E1-SWQ-STD FINISH (2 HEADS @ 180°)	450W, 47044 LUMENS, 4K'	POLE	
X	COPPER APX7R	LED	WALL	
E	COPPER SEL25	LED	WALL	
E0	COPPER SELW	LED	WALL	
*** SUBSTITUTIONS TO BE ACCEPTED MUST HAVE SAME LAMP COLOR TEMPERATURE (K) AS WELL AS LUMEN OUTPUT +/- 10%				

ANY CHANGES TO THE PLANS DURING CONSTRUCTION NEED TO BE APPROVED BY THE ARCHITECT AND/OR ENGINEER OF RECORD AND CITY

Pereda Engineering
9434 Viscount
El Paso Tx. 79938
TX FIRM #F-8313
(915)238-8399
jpereda@aol.com

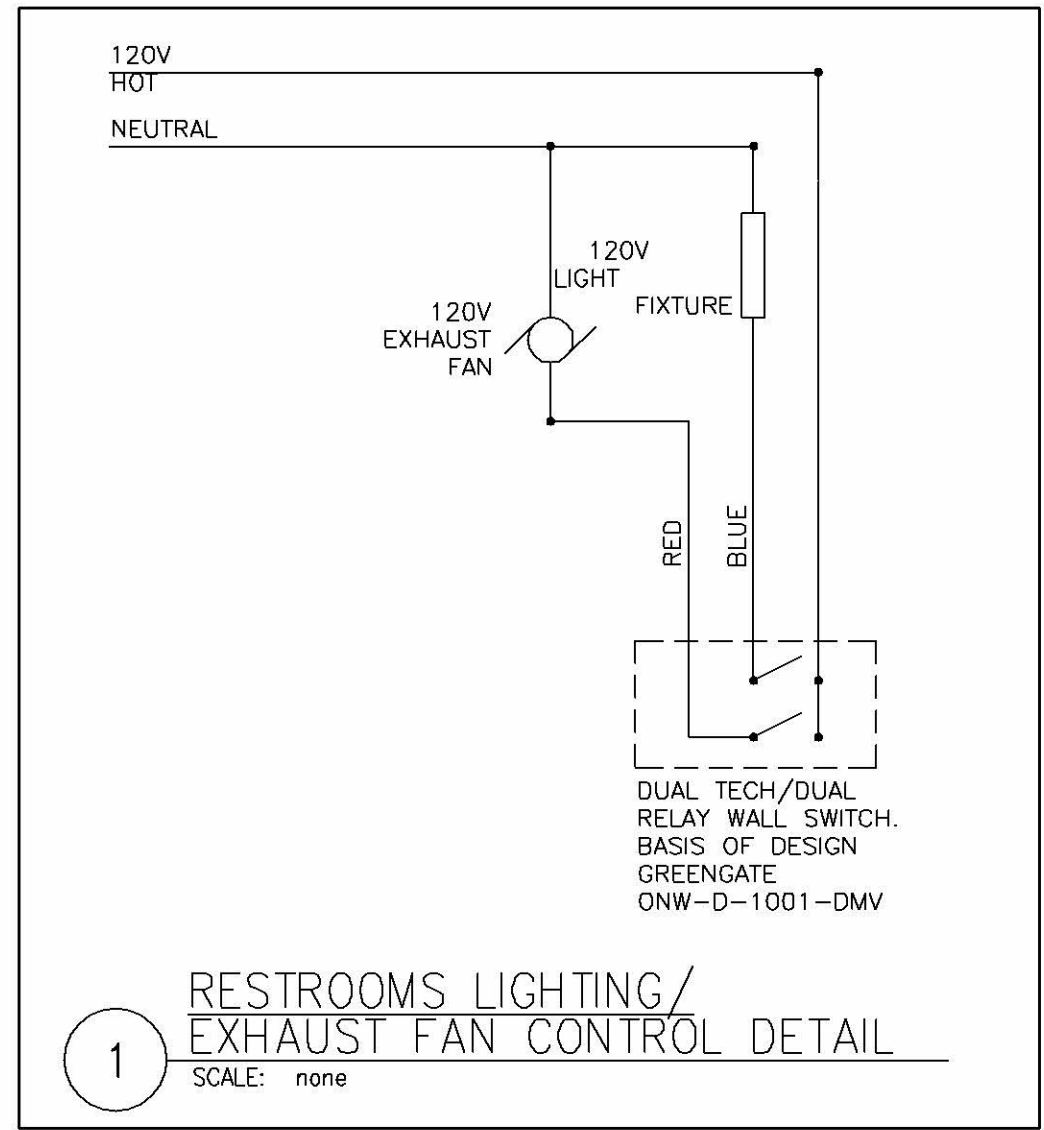
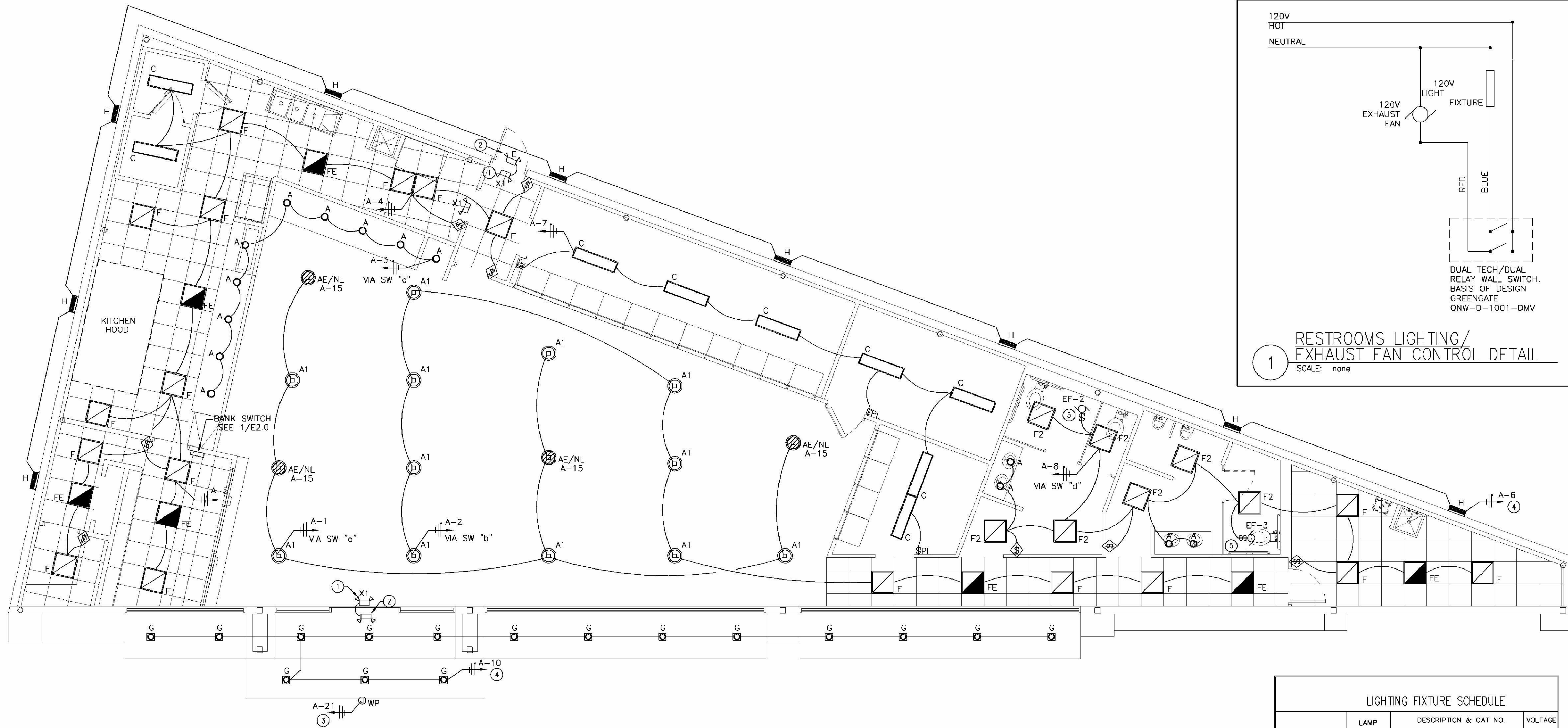


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VILLA MARIA GAS STATION 1919 WEST VILLA MARIA ROAD BRYAN, TX 77807 ELECTRICAL SITE PLAN			
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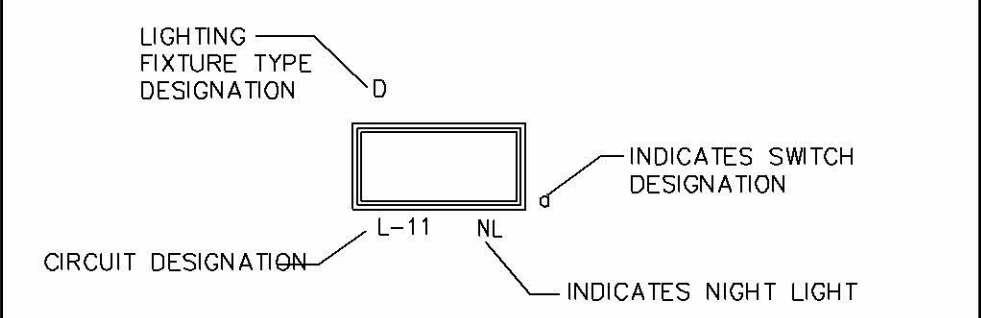
LIGHTING FLOOR PLAN

SCALE: 3/16"=1'-0"
 Ⓢ=OCCUPANCY SENSOR, WITH BYPASS DUAL TECHNOLOGY

LIGHTING CIRCUITING NOTES

1. SWITCH LIGHTING FIXTURES IN ENCLOSED SPACES BY LIGHTING CONTROL DEVICE/SWITCH SHOWN IN THAT SPACE.
2. ALL BATTERY PACKS IN EXIT SIGNS AND EMERGENCY LIGHTING FIXTURES SHALL BE CONNECTED DIRECTLY TO BRANCH CIRCUIT (UNSWITCHED HOT) SERVING THE AREA U.O.N.

CIRCUITING LEGEND



LIGHTING GENERAL NOTES

1. ALL JUNCTION BOXES, CONDUITS, AND WIRES SHALL BE SIZED PER NEC.
2. CONNECT ALL EXIT LIGHTS AHEAD OF ANY LOCAL OR AUTOMATIC SWITCHING DEVICE.
3. PROVIDE A CONSTANT HOT FROM PANEL BOARD DIRECTLY TO ALL EMERGENCY BATTERY PACKS IN ALL EMERGENCY LIGHTING FIXTURES AND EXIT SIGNS. EMERGENCY LIGHTING FIXTURES SHALL TURN ON TO FULL BRIGHTNESS IN CASE OF POWER LOSS.
4. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION & MOUNTING HEIGHTS OF ALL LIGHTING FIXTURES SHOWN ON THIS DRAWING.
5. ALL HOME RUNS SHALL BE 2#12 + 1#12 GND IN 3/4" CONDUIT UNLESS OTHERWISE NOTED.
6. REFER TO SHEET E3.0 FOR SYMBOLS, SPECIFICATIONS, ABBREVIATIONS, AND LIGHTING FIXTURE SCHEDULE.
7. ALL DEVICES AND EQUIPMENT OUTSIDE THE SCOPE OF WORK ARE EXISTING TO REMAIN U.O.N.
8. CONTRACTOR SHALL PROVIDE AN ACCURATELY TYPED PANEL BOARD SCHEDULE FOR EACH PANEL BOARD.
9. ELECTRICAL CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY PROBLEMS PERTAINING TO CIRCUIT AVAILABILITY OR LOAD CAPACITY PRIOR TO INSTALLATION.
10. ALL EXTERIOR LUMINAIRES AND ELECTRICAL DEVICES SHALL BE LISTED AS WEATHERPROOF TYPE.
11. CONTRACTOR SHALL CONFIRM COMPATIBILITY OF ALL LIGHTING CONTROL DEVICES/SWITCHES/DIMMERS WITH LIGHTING FIXTURES AND BALLASTS/DRIVERS PRIOR TO SUBMITTAL.
12. ALL LIGHTING TO BE INSTALLED BY LICENSED ELECTRICIAN.
13. GC TO VERIFY EXIT SIGN TYPE (GREEN OR RED), LOCATIONS & QUANTITIES PRIOR TO REQUESTING LIGHTING PACKAGE.
14. DO NOT INSTALL SHAMPOO CAN LIGHTS ABOVE SHAMPOO BOWL AREA. SEE REMARKS IN LIGHTING SCHEDULE.
15. CONTACT LSI @ 713.744.5581 FOR LIGHTING SPECIFICATIONS AND ORDERING INFORMATION.

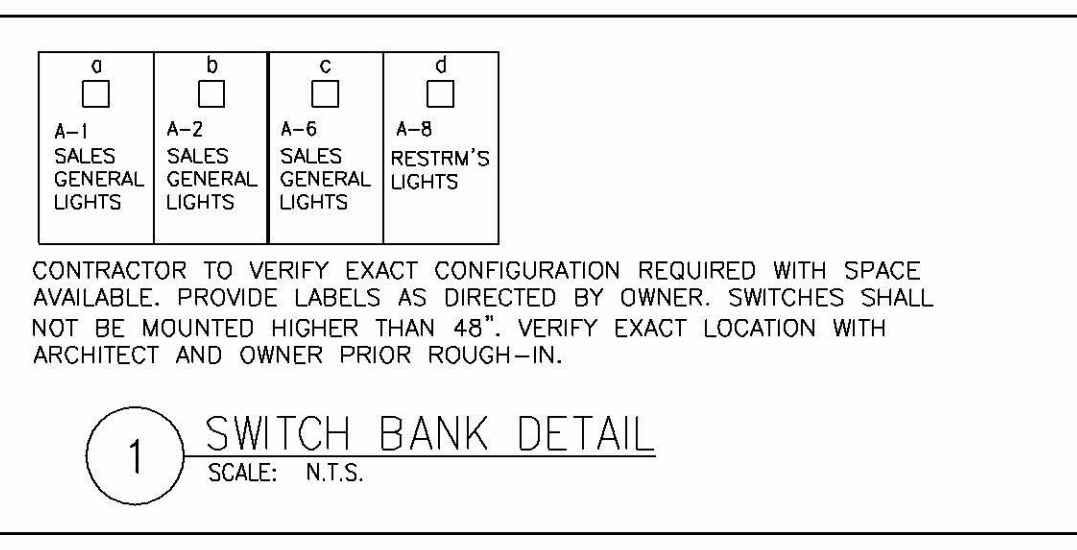
LIGHTING FIXTURE SCHEDULE			
SYMBOL	LAMP WATT	DESCRIPTION & CAT NO.	VOLTAGE
	50W LED	STAR LIGHTING FP2X4LED60W5K 5,700 LM	120V
	50W LED	STAR LIGHTING FP2X2LED50W5K 4,750 LM WITH EMERGENCY BATTERY PACK	120V
	50W LED	STAR LIGHTING FP2X2LED50W5K 4,750 LM	120V
	50W LED	STAR LIGHTING FP1X4LED50W5K 4,750 LM	120V
	20W LED	20. LED, RECESSED CAN DOWN LIGHT	120V
	DIODES CLUSTER	EMERGENCY EXIT LIGHT (5 WATTS, 120 VOLTS) WITH EMERGENCY BATTERY BACK. UPUL LABELED LITHIUM. PRICISE OR APPROVED EQUAL.	120V
	125W LED	CANOPY LIGHT 16" SQUARE, SPECULAR REFLECTOR, TEMPERED GLASS LENS MFG - AS REQUIRED BY ENGINEER	120V
	65W LED	OUTDOOR WALLPACK MTD, INC. LT. FIXTURE (2-75 WATT, 120V)	120V
		EMERGENCY LIGHT (2-28 WATTS, 120 VOLTS) WITH BATTERY BACK-UP	120V
A1	100W LED	METALUX TBLED-LD1-11-M-UNV-LB40-CD1-CG-WHT-120V (WITH EMERGENCY PACK)	120V
AE	100W LED	METALUX TBLED-LD1-11-M-UNV-LB40-CD1-CG-WHT-120V (WITH EMERGENCY PACK)	120V

NOTES:
 1. CIRCUITS SHOWN SHALL BE FIELD VERIFIED. RELOCATE / REARRANGE AS NECESSARY AND PROVIDE ORIGINAL CIRCUITS TO GREATEST EXTENT POSSIBLE.
 2. FOR SITE LIGHT POLE SEE DRAWING MEP-1

NOTE:
 ALL CONDUIT TO BE RUN OUTSIDE OF COOLER/FREEZER AND ALL PENETRATIONS PROVIDED WITH SEAL-OFFS PER NEC. RACEWAYS THAT PENETRATE COOLERS THAT ARE KNOWN TO BE SUBJECT TO DIFFERENT TEMPERATURES AND CONDENSATION SHALL BE FILLED INSIDE THE RACEWAY WHERE IT ENTERS THE COOLERS WITH AN APPROVED MATERIAL TO PREVENT TO CIRCULATION OF WARM AIR TO THE COOLER SECTION. (SEE 300.7 OF NFPA 70).

PER 2015 IECC 505.2.2.2 AREAS WHERE AUTOMATIC SHUTOFF FOR LIGHTING WOULD ENDANGER OCCUPANT SAFETY OR SECURITY JUST LIKE FOOD PREPARATION AND FOOD PROCESSING AREAS, AND AREAS WITH ELECTRICAL AND MECHANICAL EQUIPMENT ARE EXEMPT FROM AUTOMATIC CONTROLS.

PER 2015 IECC 101.3 THIS CODE IS NOT INTENDED TO ABRIDGE SAFETY, HEALTH OR ENVIRONMENTAL REQUIREMENTS CONTAINED IN OTHER APPLICABLE CODES OR ORDINANCES. SINCE THE MINIMUM REQUIREMENTS OF ILLUMINATION PER HEALTH CODE FOR FOOD SERVICE ESTABLISHMENT WHERE FOOD IS PREPARED IS 50 FOOT-CANDELES, NO 50% REDUCTION HAS BEEN PROVIDED IN KITCHEN AREA.

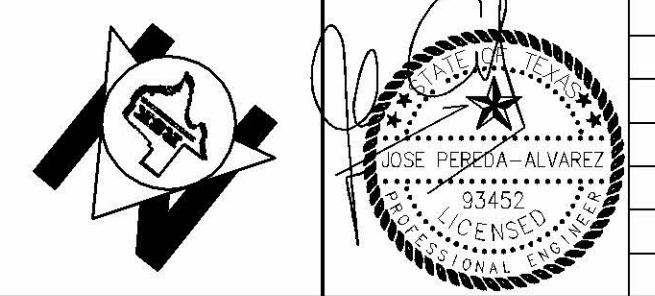


- Ⓢ LIGHTING KEY NOTES Ⓢ**
1. CONTRACTOR SHALL WIRE ALL EMERGENCY, EGRESS, AND EXIT FIXTURES AHEAD OF ALL LOCAL SWITCHING.
 2. THIS FIXTURE SHALL HAVE AN EMERGENCY BATTERY PACK IN IT THAT IS TIED TO THE HOT LEG OF THE EXIT LIGHT CIRCUIT AS INDICATED. THIS FIXTURE IS TO PROVIDE EMERGENCY LIGHTING OUTSIDE THE EXIT DOOR AS REQUIRED BY THE IBC (CURRENT EDITION). THE EMERGENCY BALLAST SHALL PROVIDE EMERGENCY POWER FOR AT LEAST 90 MINUTES. INSTALL THE LIGHT AS SHOWN OR AS NEEDED TO PROVIDE 1 FOOTCANDLE OF EMERGENCY LIGHT AT THE GROUND AT THE DOOR.
 3. PROVIDE WEATHERPROOF JUNCTION BOX WITH 20A, 120V BRANCH CIRCUIT TO POWER EXTERIOR SIGNAGE. CONTRACTOR TO PROVIDE 1P-20A RATED TOGGLE SWITCH ABOVE CEILING IN AN ACCESSIBLE AREA AS A DISCONNECT MEAN AND TO COORDINATE EXACT LOCATION AND REQUIREMENTS WITH OWNER/SIGN VENDOR PRIOR TO ROUGH-IN. EXTERIOR SIGNAGE SHALL BE CONTROLLED VIA PHOTOCELL/TIME CLOCK AS DIRECTED BY OWNER.
 4. EXTERIOR LIGHTS SHOULD BE CONTROLLED VIA PHOTOCELL/CONTACTOR AS DIRECTED BY OWNER.
 5. RESTROOM LIGHT SHALL BE CONTROLLED/INTERLOCKED WITH EXHAUST FAN CONTROL UNLESS OTHERWISE DIRECTED BY OWNER. REFER TO DETAIL 1/E2.0

ANY HANGES TO THE PLANS DURING CONSTRUCTION NEED TO BE APPROVED BY THE ARCHITECT AND/OR ENGINEER OF RECORD AND CITY

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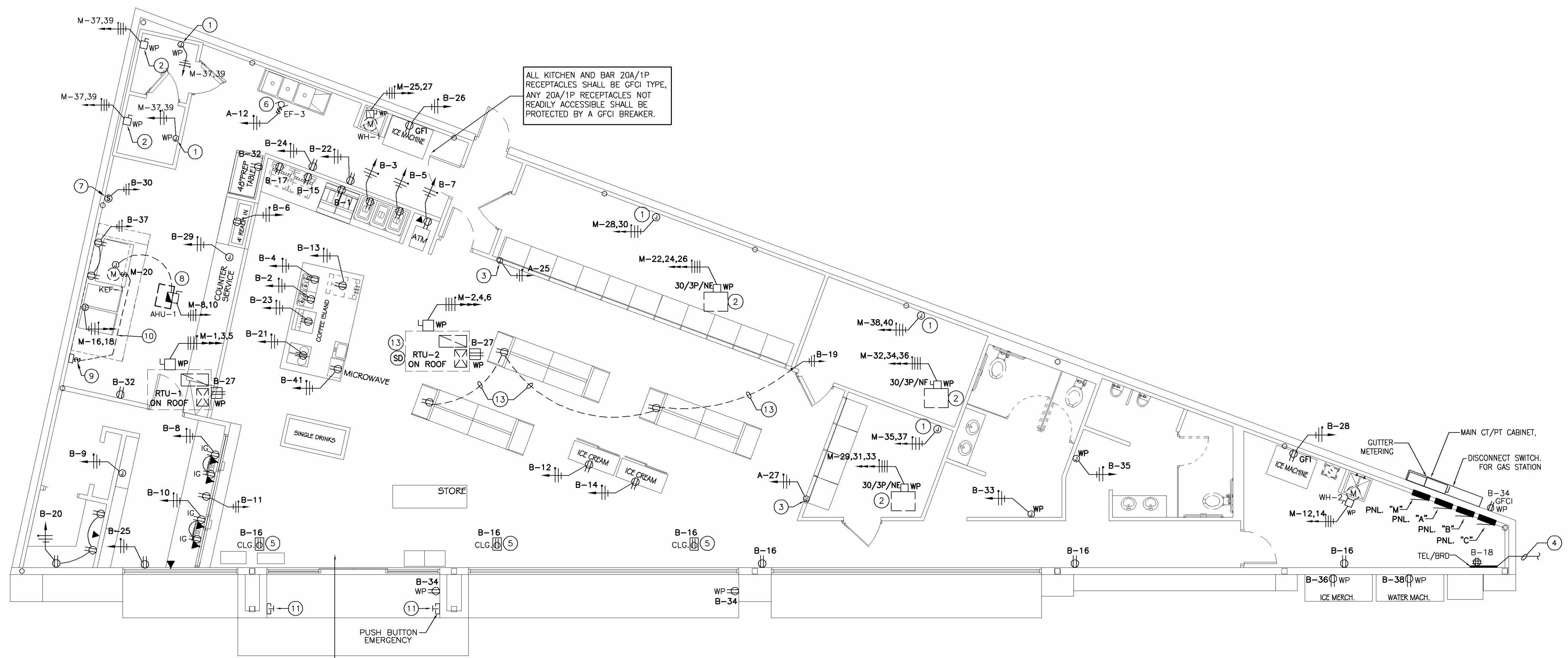
GRAPHIC SCALE



ISSUE HISTORY		REVISIONS	
DATE	ISSUED FOR	DESCRIPTION	
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RSK ENGINEERING
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 12812 WILLOW CENTRE, UNIT A TEL. (281) 580-4585
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 FIRM # F-11211

VILLA MARIA GAS STATION
 1919 WEST VILLA MARIA ROAD
 BRYAN, TX 77807
MASTER LIGHTING PLAN
 SHEET: **E2.0** OF 4
 DRAWN BY: TD DATE: 3-04-2021
 CHECKED BY: RSK PROJ. NO.: VR151003.317.4



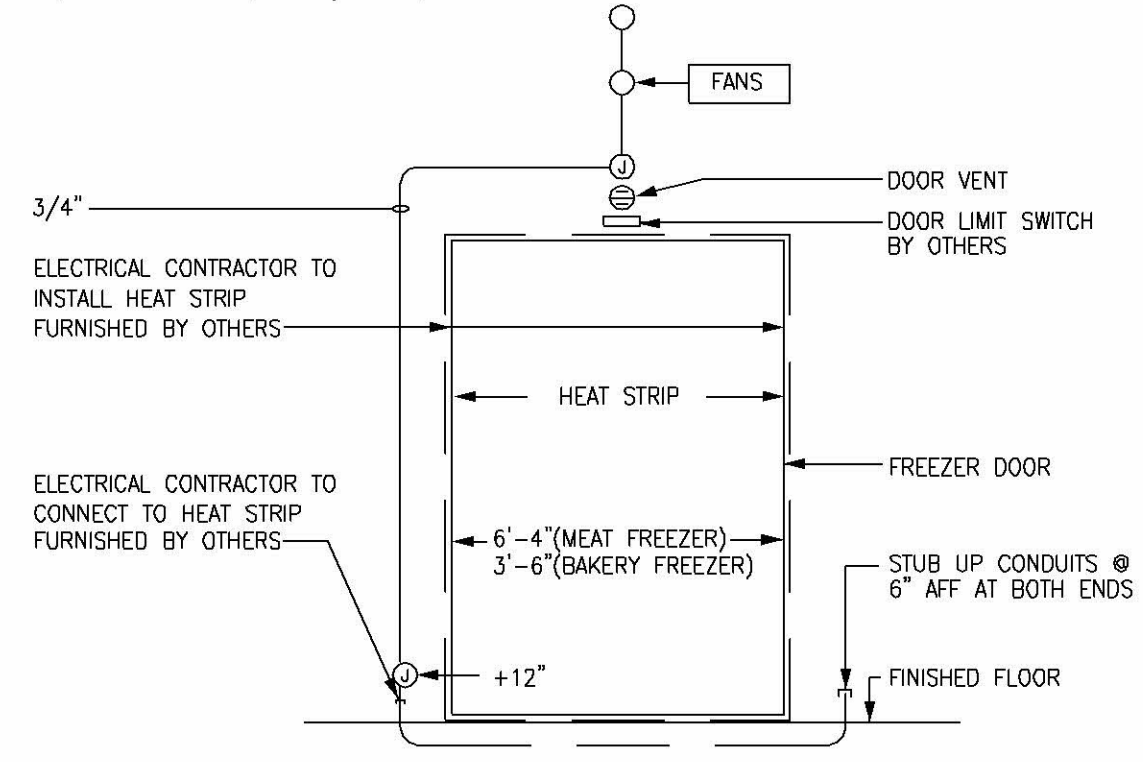
ELECTRICAL POWER PLAN

SCALE: 3/16"=1'-0"

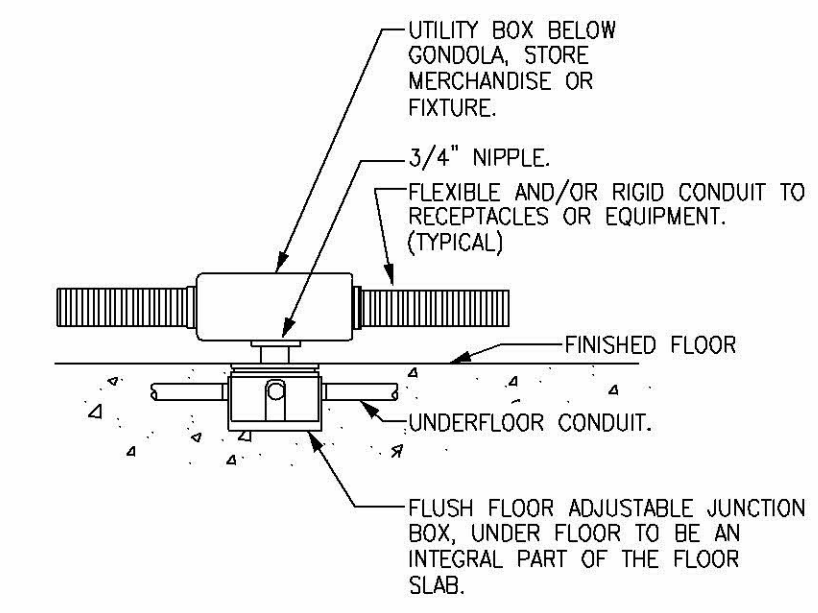
ALL 20A/1P RECEPTACLES SHALL BE AFCI, TAMPER RESISTANT, ARTICLE 406.12 OF THE 2020 NEC

ALL KITCHEN AND BAR 20A/1P RECEPTACLES SHALL BE GFCI TYPE, ANY 20A/1P RECEPTACLES NOT READILY ACCESSIBLE SHALL BE PROTECTED BY A GFCI BREAKER.

tamper resistant receptacles where required by Code per Article 406.12 of the 2020 NEC



1 CONDUIT AT FREEZER DOOR DETAIL
SCALE: NONE
ECOND-9



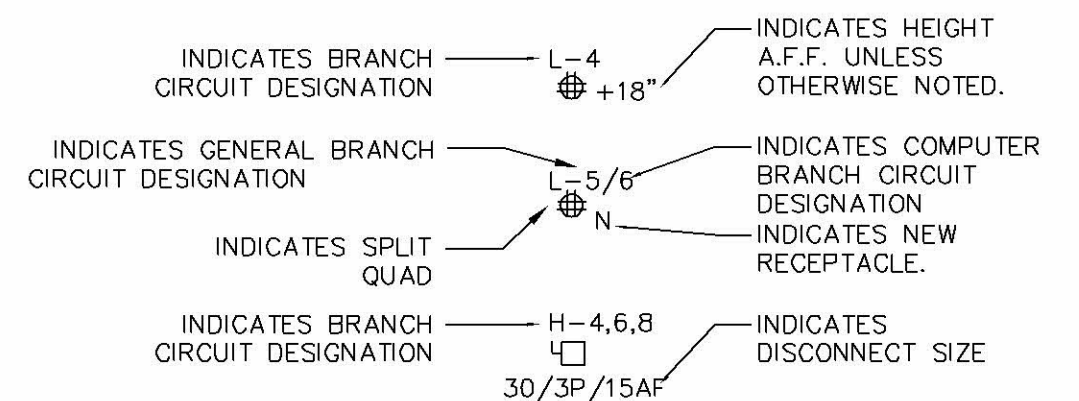
2 HANDY BOX - UNDER FLOOR CONDUIT
SCALE: NONE
ERECE-4

ALL EQUIPMENT BENEATH EXHAUST HOOD SHALL BE SHUT DOWN DURING FIRE. PROVIDE SHUNT-TRIP BREAKERS FOR ALL EQUIPMENT BENEATH HOODS, INCLUDING ANY HOOD SUPPLY AIR FANS. PROVIDE INTERCONNECTION WITH HOOD FIRE SUPPRESSION SYSTEM. COORDINATE WITH FIRE SUPPRESSION CONTRACTOR.

ALL KITCHEN AND BAR 20A/1P RECEPTACLES SHALL BE GFCI TYPE, ANY 20A/1P RECEPTACLES NOT READILY ACCESSIBLE SHALL BE PROTECTED BY A GFCI BREAKER.

REFER TO EQUIPMENT SCHEDULE AND ELEVATIONS FOR CIRCUITING, EXACT LOCATION OF ALL RECEPTACLES, AND ALL OTHER REQUIREMENTS.

CIRCUITING LEGEND



POWER GENERAL NOTES

- PROVIDE PULL STRINGS IN ALL EMPTY CONDUITS.
- ALL JUNCTION BOXES, CONDUITS, AND WIRES SHALL BE SIZED PER NEC.
- REFER TO ARCHITECTURAL AND KITCHEN CONSULTANT DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL DEVICES SHOWN ON THE DRAWING. COORDINATE WITH OWNER FOR EXACT LOCATION AND OTHER REQUIREMENTS PRIOR TO ROUGH-IN.
- NOT USED.
- ALL DEVICES AND EQUIPMENT OUTSIDE THE SCOPE OF WORK ARE EXISTING TO REMAIN U.O.N.
- CIRCUIT NUMBERS INDICATED ARE FOR DESIGN PURPOSES ONLY. CONTRACTOR SHALL COORDINATE ACTUAL CIRCUIT NUMBERS AT THE TIME OF INSTALLATION AND TO PROVIDE AN ACCURATELY TYPED PANEL BOARD SCHEDULE FOR EACH PANEL BOARD.
- ELECTRICAL CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY PROBLEMS PERTAINING TO CIRCUIT AVAILABILITY OR LOAD CAPACITY PRIOR TO INSTALLATION.
- CONTRACTOR SHALL REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF MECHANICAL EQUIPMENT AND SCHEDULES. CONTRACTOR SHALL PROVIDE ALL ELECTRICAL DISCONNECTS, BRANCH CIRCUITRY, CIRCUIT BREAKERS AND CONNECTIONS REQUIRED TO POWER EQUIPMENT.
- CONTRACTOR TO COORDINATE EXACT LOCATION OF DISCONNECT SWITCHES, JUNCTION BOXES AND SINGLE POLE TOGGLE SWITCHES WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
- ALL RECEPTACLES LOCATED WITHIN 6'-0" OF SINK SHALL BE GFCI TYPE.
- DEVICE MARKER WITH SUBSCRIPT "(E)" IS EXISTING TO REMAIN, AND WITH SUBSCRIPT "(R)" IS RELOCATED DEVICE TO BE POWERED FROM THE SAME CIRCUIT WAS POWERING IT PREVIOUSLY.

TELE/DATA/AV NOTES

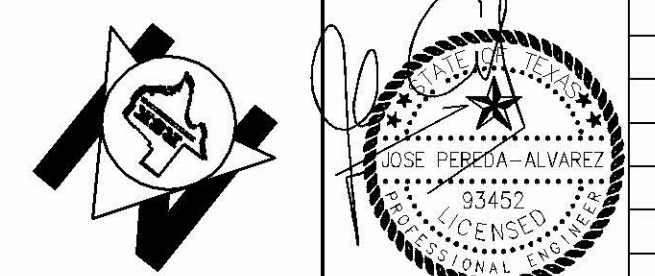
- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH TELE/DATA AND A/V CONSULTANTS/VENDORS FOR ADDITIONAL SCOPE OF CONDUITS, OUTLETS AND BACK BOXES REQUIREMENTS.

POWER KEY NOTES

- JUNCTION BOX FOR EVAPORATOR COIL CONNECTION. CONTRACTOR TO COORDINATE WITH WALK-IN COOLER/FREEZER VENDOR FOR ALL REQUIREMENTS AND TO MAKE FINAL TIE-INS TO ROOF CONDENSING UNITS AS REQUIRED.
- CONNECT TO EVAPORATOR UNIT. INTERCONNECT WITH ROOF TOP CONDENSING UNIT PER MANUFACTURER'S INSTRUCTIONS.
- JUNCTION BOX FOR WALK-IN COOLER/FREEZER LIGHTING OR HEAT TAPE CONNECTION. PROVIDE GFCI BREAKER AS PER NEC 427.22. CONTRACTOR TO COORDINATE WITH WALK-IN COOLER/FREEZER VENDOR FOR EXACT LOCATION AND ALL REQUIREMENTS PRIOR TO INSTALLATION.
- PROVIDE (1) 2" CONDUIT WITH RING AND STRING FOR TELE/DATA CABLING FROM BUILDING TELEPHONE CABINET TO TELEPHONE BOARD LOCATION AS SHOWN. CONTRACTOR TO COORDINATE ROUTING OF CONDUIT, TERMINATION POINTS, AND OTHER REQUIREMENTS WITH TENANT'S IT CONSULTANT/OWNER PRIOR TO INSTALLATION.
- PROVIDE CEILING MOUNTED RECEPTACLE FOR NEON SIGN. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO INSTALLATION.
- EXHAUST FAN SHALL BE CONTROLLED VIA TIME CLOCK AND BY 1P-20A TOGGLE SWITCH. CONTRACTOR TO PROVIDE 120V CONTACTOR AS REQUIRED FOR CONTROL.
- LOCATION OF FIRE SUPPRESSION SYSTEM. SUPPRESSION SYSTEM TO TURN OFF POWER TO SHUNT TRIP BREAKERS FOR HOOD FAN, HOOD LIGHTS, AND ALL RECEPTACLES OUTLETS UNDER THE HOOD.
- FURNISH AND INSTALL ALL NECESSARY CONDUIT AND WIRING AND MAKE ALL CONNECTIONS TO INTERLOCKING EXHAUST FAN WITH MAU-1. REFER TO MECHANICAL FOR ADDITIONAL INFORMATION.
- CONTROL PANEL FOR MAKE-UP AIR UNIT SHALL BE FURNISHED BY MECHANICAL FOR INSTALLATION, WIRING AND CONNECTIONS BY ELECTRICAL.
- 1/2" CONDUIT WITH CONTROL CONDUCTORS AS REQUIRED. MAKE ALL CONNECTIONS FOR PROPER OPERATION.
- PROVIDE EMERGENCY PUSH BUTTON FOR FUEL PUMP SHUT-DOWN.
- PROVIDE DUCT SMOKE DETECTOR. FURNISHED AND WIRE BY ELECTRICAL CONTRACTOR. MOUNTED IN DUCT BY MECHANICAL CONTRACTOR.
- PROVIDE (1) 3/4" CONDUIT CONCEALED IN SLAB FOR POWER WIRING TO BANQUETTE BENCH RECEPTACLES. COORDINATE EXACT LOCATION OF RECEPTACLES AND OTHER REQUIREMENTS WITH OWNER PRIOR TO INSTALLATION.

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VILLA MARIA GAS STATION
1919 WEST VILLA MARIA ROAD
BRYAN, TX 77807
MASTER POWER PLAN
DRAWN BY: TD
CHECKED BY: RSK
DATE: 3-04-2021
PROJ. NO.: VR151003.317.4
SHEET: **E3.0** OF 4

PANELBOARD SCHEDULE											M	
VOLTAGE	PHASE	WIRE	MCB (A)	MLO (A)	AIC RATING	MOUNTING	LOCATION	REMARKS			NEMA ENCLOSURE	
120/208	3	4		600	44,000	RECESSED	BACK ROOM				1	
LOAD TYPE LEGEND												
L	LOAD DESCRIPTION	LOAD TYPE	WIRE SIZE	CONDUIT SIZE	CIRCUIT BREAKER	LOAD (VA)	PHASE	LOAD (VA)	TRIP	WIRE SIZE	LOAD TYPE	LOAD DESCRIPTION
1	RTU-1	M	#8	1"	40A	3800	A	5000	3	60A	1"	RTU-2
2						3800	B	5000	3	60A	1"	
3						3800	C	5000	3	60A	1"	
4	PANEL 'A'		SEE RISER	200A	3	0	A	1500	2	20A	3/4"	MUA-1, 12 FLA, 208V, 1PH
5						0	B	1500	2	20A	3/4"	
6						0	C	1500	2	20A	3/4"	
7						0	A	3500	2	40	1"	WH-2
8						0	B	4500	2	50A	1"	
9						0	C	3500	2	50A	1"	LIFT ELECTRIC
10	PANEL 'B'		SEE RISER	200A	3	0	A	1200	1	20A	3/4"	KEF-1
11						0	B	2000	3	30A	1"	WALK-IN FREEZER CU
12						0	C	2000	3	30A	1"	
13						0	A	2000	2	20A	3/4"	FREEZER EVAPORATOR
14						0	B	1000	2	20A	3/4"	
15						0	C	1000	2	20A	3/4"	
16	PANEL 'C'		SEE RISER	200A	3	0	A	1200	3	30A	1"	CAVE COOLER CU
17						0	B	1200	3	30A	1"	
18						0	C	1200	3	30A	1"	
19						0	A	1500	2	20A	3/4"	FREEZER EVAPORATOR
20						0	B	1500	2	20A	3/4"	
21						0	C	1500	2	20A	3/4"	
22	WH-1	O	#8	1"	40A	2	3500	B	1000	2	20A	3/4"
23						0	A	3500	2	20A	3/4"	
24						0	B	3500	2	20A	3/4"	
25						0	C	3500	2	20A	3/4"	
26	WALK-IN COOLER CU	O	#6	1"	30A	3	1500	A	1200	3	30A	1"
27						0	B	1200	3	30A	1"	
28						0	C	1200	3	30A	1"	
29						0	A	1200	2	30A	1"	CAVE EVAPORATOR
30						0	B	1200	2	30A	1"	
31						0	C	1200	2	30A	1"	
32						0	A	1200	1	0	0	
33						0	B	1200	1	0	0	
34						0	C	1200	1	0	0	
35	COOLER EVAPORATOR	O	#8	1"	20A	2	1000	A	1200	2	30A	1"
36						0	B	1200	2	30A	1"	
37						0	C	1200	2	30A	1"	
38	SPARE					0	A	20A	1	0	0	
39	SPARE					0	B	20A	1	0	0	
40	SPARE					0	C	20A	1	0	0	
41	SPARE					0	A	20A	1	0	0	
42	SPARE					0	B	20A	1	0	0	
43	SPARE					0	C	20A	1	0	0	

PANELBOARD SCHEDULE											A	
VOLTAGE	PHASE	WIRE	MCB (A)	MLO (A)	AIC RATING	MOUNTING	LOCATION	REMARKS			NEMA ENCLOSURE	
120/208	3	4		100	22,000	RECESSED	BACK ROOM				1	
LOAD TYPE LEGEND												
L	LOAD DESCRIPTION	LOAD TYPE	WIRE SIZE	CONDUIT SIZE	CIRCUIT BREAKER	LOAD (VA)	PHASE	LOAD (VA)	TRIP	WIRE SIZE	LOAD TYPE	LOAD DESCRIPTION
1	STORE LIGHTS	L	#12	3/4"	20A	1	1100	A	1100	1	20A	3/4"
2						1	1100	B	1000	1	20A	3/4"
3						1	1100	C	1000	1	20A	3/4"
4	OFFICE/CASHER LIGHTS	L	#12	3/4"	20A	1	600	A	1100	1	20A	3/4"
5						1	600	B	1000	1	20A	3/4"
6						1	600	C	1000	1	20A	3/4"
7	BACKRM LIGHTS	L	#12	3/4"	20A	1	600	A	1000	1	20A	3/4"
8						1	600	B	1000	1	20A	3/4"
9						1	600	C	1000	1	20A	3/4"
10	EXIT / EMERGENCY	L	#10	3/4"	20A	1	250	B	600	1	20A	3/4"
11						1	250	C	600	1	20A	3/4"
12	AIR PUMP	O	#10	3/4"	20A	1	250	A	600	1	20A	3/4"
13						1	250	B	600	1	20A	3/4"
14						1	250	C	600	1	20A	3/4"
15	GAS STATION LIGHTS	L	#12	3/4"	20A	1	1100	A	1500	2	30A	1"
16						1	1100	B	1500	2	30A	1"
17						1	1100	C	1500	2	30A	1"
18	CONDOLAS	L	#12	3/4"	20A	1	360	A	1100	1	20A	3/4"
19						1	360	B	1100	1	20A	3/4"
20						1	360	C	1100	1	20A	3/4"
21	PARKING LOT LIGHTS	L	#12	3/4"	20A	1	700	A	100	1	20A	3/4"
22						1	700	B	100	1	20A	3/4"
23						1	700	C	100	1	20A	3/4"
24	PARKING LOT LIGHTS	L	#12	3/4"	20A	1	700	A	100	1	20A	3/4"
25						1	700	B	100	1	20A	3/4"
26						1	700	C	100	1	20A	3/4"
27	SPARE					0	A	0	0	1	20A	
28	SPARE					0	B	0	0	1	20A	
29	SPARE					0	C	0	0	1	20A	
30	SPARE					0	A	0	0	1	20A	
31	SPARE					0	B	0	0	1	20A	
32	SPARE					0	C	0	0	1	20A	
33	SPARE					0	A	0	0	1	20A	
34	SPARE					0	B	0	0	1	20A	
35	SPARE					0	C	0	0	1	20A	
36	SPARE					0	A	0	0	1	20A	
37	SPARE					0	B	0	0	1	20A	
38	SPARE					0	C	0	0	1	20A	
39	SPARE					0	A	0	0	1	20A	
40	SPARE					0	B	0	0	1	20A	
41	SPARE					0	C	0	0	1	20A	
42	SPARE					0	A	0	0	1	20A	

PANELBOARD SCHEDULE											B	
VOLTAGE	PHASE	WIRE	MCB (A)	MLO (A)	AIC RATING	MOUNTING	LOCATION	REMARKS			NEMA ENCLOSURE	
120/208	3	4		100	22,000	RECESSED	BACK ROOM				1	
LOAD TYPE LEGEND												
L	LOAD DESCRIPTION	LOAD TYPE	WIRE SIZE	CONDUIT SIZE	CIRCUIT BREAKER	LOAD (VA)	PHASE	LOAD (VA)	TRIP	WIRE SIZE	LOAD TYPE	LOAD DESCRIPTION
1	ICE TEA MACHINE	K	#12	3/4"	20A	1	800	A	900	1	20A	3/4"
2						1	800	B	900	1	20A	3/4"
3						1	800	C	900	1	20A	3/4"
4	DRINK DISPENSER RECEP	K	#12	3/4"	20A	1	800	A	900	1	20A	3/4"
5						1	800	B	900	1	20A	3/4"
6						1	800	C	900	1	20A	3/4"
7	ATM	O	#12	3/4"	20A	1	700	A	500	1	20A	3/4"
8						1	700	B	500	1	20A	3/4"
9	CIGARETTE VENDOR	O	#12	3/4"	20A	1	800	B	500	1	20A	3/4"
10						1	800	C	500	1	20A	3/4"
11	SAFE	O	#12	3/4"	20A	1	800	C	700	1	20A	3/4"
12						1	800	A	700	1	20A	3/4"
13	CAPUCHINO MACHINE	O	#12	3/4"	20A	1	1200	A	700	1	20A	3/4"
14						1	1200	B	700	1	20A	3/4"
15	SPARE					0	B	320	1	20A	3/4"	
16						0	C	360	1	20A	3/4"	
17	SPARE					0	A	360	1	20A	3/4"	
18						0	B	360	1	20A	3/4"	
19						0	C	360	1	20A	3/4"	
20	DISPLAY RECEPTACLES	R	#12	3/4"	20A	1	800	A	900	1	20A	3/4"
21						1	800	B	1500	1	20A	3/4"
22						1	800	C	1500	1	20A	3/4"
23	SLUSHEE MACHINE	O	#12	3/4"	20A	1	800	B	1500	1	20A	3/4"
24						1	800	C	1500	1	20A	3/4"
25	MILK SHAKE	O	#12	3/4"	20A	1	800	C	1500	1	20A	3/4"
26						1	800	A	1800	1	30A	3/4"
27	CASH REGISTER	O	#12	3/4"	20A	1	240	A	1800	1	30A	3/4"
28						1	240	B	1800	1	30A	3/4"
29	ROOF RECEPTACLE WP/GFI	R	#12	3/4"	20A	1	380	B	1800	1	30A	

GENERAL NOTES (APPLICABLE TO ALL DRAWINGS)

- DRAWINGS MAY NOT REFLECT EXISTING CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ACTUAL EXISTING CONDITIONS PRIOR TO SUBMITTING BID. BEFORE EXECUTING CONTRACT, CONTRACTOR SHALL NOTIFY ARCHITECT OF EACH EXISTING CONDITION THAT VARIES FROM THE CONDITION INDICATED ON DRAWINGS. CONTRACTOR WILL NOT BE COMPENSATED EXTRA FOR WORK RESULTING FROM FAILURE BY CONTRACTOR TO COMPLY WITH THIS REQUIREMENT.
- CONTRACTOR SHALL COORDINATE WORK OF THE MECHANICAL, ELECTRICAL, AND PLUMBING (M.E.P.) DISCIPLINES WITH WORK OF ALL OTHER DISCIPLINES.
- WORK OF THE M.E.P. TRADES MAY BE SHOWN ON ARCHITECTURAL AND STRUCTURAL DRAWINGS, WHERE FEATURES ARE INDICATED ON MORE THAN ONE DRAWING (FOR EXAMPLE, THE REFLECTED CEILING PLAN MAY APPEAR ON ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS). CONTRACTOR SHALL CONTACT ARCHITECT TO RESOLVE CONFLICTS. SUCH CONTACT SHALL BE MADE IN WRITING PRIOR TO THE COMMENCEMENT OF WORK BY THE CONTRACTOR.
- CONTRACTOR SHALL COORDINATE DEMOLITION WORK AMONG THE TRADES. BY WAY OF EXAMPLE, BUT NOT EXCLUSION, MECHANICAL DEMOLITION SHALL BE COORDINATED WITH ELECTRICAL DEMOLITION INCLUDING POWER, CONTROL, COMMUNICATION AND MONITORING.
- DAMAGE CAUSED TO EXISTING SYSTEMS AND/OR EXISTING FEATURES OF THE BUILDING DURING DEMOLITION OR OTHER PHASES OF CONSTRUCTION SHALL BE REPAIRED BY CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- M.E.P. WORK REQUIRES CUTTING, PATCHING, AND REINFORCING OF ADJACENT SURFACES AND FEATURES OF THE BUILDING. CONTRACTOR SHALL PERFORM ALL SUCH WORK AT NO ADDITIONAL COST TO OWNER. REPAIRED SURFACES SHALL BE FINISHED TO MATCH THE EXISTING SURROUNDING AREA.
- CONTRACTOR SHALL COMPLY WITH ALL LOCAL, COUNTY, STATE, AND FEDERAL CODES, ORDINANCES, RULES AND REGULATIONS. IN THE EVENT OF CONFLICT BETWEEN CONTRACT DOCUMENTS AND CODES, ORDINANCES, RULES AND REGULATIONS, THE MOST RIGID SHALL APPLY.
- CONTRACTOR SHALL NOT REMOVE PLUMBING AND HVAC EQUIPMENT THAT IS NOT CODED WITH HATCH MARKS ON DRAWINGS.
- CONTRACTOR SHALL FURNISH ALL EQUIPMENT, MATERIAL, AND LABOR, WHETHER OR NOT SHOWN ON DRAWINGS, NECESSARY TO PROVIDE A COMPLETE, OPERATIONAL, CODE-COMPLIANT SYSTEM.
- CONTRACTOR SHALL NOT CUT, DRILL, OR ALTER ANY ELEMENT OF WALLS, FLOORS CEILINGS, ROOFS, SLABS, ETC., WITHOUT FIRST RECEIVING ARCHITECT'S APPROVAL. ALL CUTS SHALL BE MADE WITH ARCHITECT-APPROVED CUTTING TOOLS.
- IN THE EVENT THAT CONTRACTOR FINDS DISCREPANCIES OR OMISSIONS, OR IS IN DOUBT AS TO THE EXACT MEANING OF THE PLANS AND/OR SPECIFICATIONS, CONTRACTOR SHALL, BEFORE COMMENCING WORK ON THE AREA IN QUESTION, CONTACT ARCHITECT FOR CLARIFICATION.
- SUBMITTALS: CONTRACTOR SHALL SUBMIT PRODUCT DATA SHEETS FOR ALL M.E.P. EQUIPMENT. SAID SUBMITTALS MUST BE BOUND TOGETHER (PARTIAL SUBMITTALS NOT ACCEPTABLE) AND SHALL INCLUDE MANUFACTURER MODEL NUMBER, PHYSICAL DIMENSIONS AND PERFORMANCE RATINGS CLEARLY IDENTIFIED BY SAME IDENTIFICATION SCHEDULED ON DRAWINGS. DATA SHEETS SHALL INDICATE MODEL NUMBERS, PARTS, DIMENSIONS AND VALUES WHICH APPLY TO THE PRODUCTS BEING PROPOSED. NEATLY CIRCLE OR DRAW ARROWS TO IMPORTANT INFORMATION. IF CONTRACTOR PLACES ORDERS AND/OR PROCEEDS WITH WORK PRIOR TO RECEIPT OF ARCHITECT'S APPROVAL OF SUBMITTAL DATA, SUCH ACTION SHALL BE AT CONTRACTOR'S SOLE RISK. IN THE EVENT THAT SUBMITTAL DATA IS REJECTED BY ARCHITECT, CONTRACTOR SHALL CANCEL ALL RELATED ORDERS AND REPLACE ALL RELATED WORK AT CONTRACTOR'S SOLE EXPENSE. ANY SCHEDULE PROGRESS IMPACT CAUSED BY CONTRACTOR PROCEEDING IN ADVANCE OF ARCHITECT'S APPROVAL OF SUBMITTAL DATA SHALL BE AGAINST CONTRACTOR'S ACCOUNT.
- IF CONTRACTOR DESIRES TO USE MATERIAL OF EQUAL QUALITY OTHER THAN THAT SPECIFIED, CONTRACTOR SHALL SUBMIT WRITTEN REQUEST FOR APPROVAL TO ARCHITECT AT LEAST SEVEN CALENDAR DAYS BEFORE THE DATE SET FOR BIDDING. BY OFFERING A SUBSTITUTION, CONTRACTOR ACCEPTS SOLE RESPONSIBILITY FOR EFFECT OF SUBSTITUTION ON THE WORK OF ALL TRADES. ALL COSTS OF CHANGES RESULTING FROM THE INCLUSION OF SUBSTITUTIONS SHALL BE BORNE BY CONTRACTOR.

GENERAL NOTES (CONT.)

- PROVIDE TEMPORARY SERVICES AND CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. WHEN WORK MUST BE PERFORMED ON ENERGIZED EQUIPMENT OR CIRCUITS, USE PERSONNEL EXPERIENCED IN SUCH OPERATIONS.
- MAINTAIN ACCESS TO EXISTING ELECTRICAL, MECHANICAL AND PLUMBING INSTALLATIONS WHICH REMAIN ACTIVE. MODIFY INSTALLATION OR PROVIDE ACCESS AS APPROPRIATE.
- EXTEND EXISTING INSTALLATIONS USING MATERIALS AND METHODS COMPATIBLE WITH EXISTING INSTALLATIONS, UNLESS INDICATED OTHERWISE ON DRAWINGS.
- THE CONTRACTOR SHALL PROVIDE CONTAINMENT AND DISPOSE OF DUST AND DEBRIS DURING DEMOLITION AND CONSTRUCTION.
- AT FINAL COMPLETION OF THE PROJECT, ALL M.E.P. PRODUCTS, EQUIPMENT, AND SYSTEMS SHALL OPERATE UNDER ALL CONDITIONS OF LOAD WITHOUT ANY SOUND OR VIBRATION WHICH IS OBJECTIONABLE IN THE OPINION OF THE ENGINEER. SOUND OR VIBRATION NOTICEABLE OUTSIDE THE SPACE OF A PRODUCT WILL BE CONSIDERED OBJECTIONABLE. VIBRATION WHICH, IN THE OPINION OF ENGINEER WILL IMPACT ON THE LIFE, WARRANTY, OR PERFORMANCE OF A PRODUCT IS CONSIDERED OBJECTIONABLE. SOUND OR VIBRATION CONDITIONS CONSIDERED OBJECTIONABLE BY ENGINEER SHALL BE CORRECTED BY CONTRACTOR AT CONTRACTOR'S EXPENSE. VIBRATION CONTROL SHALL BE BY MEANS OF VIBRATION ELIMINATORS INSTALLED IN THE MANNER RECOMMENDED BY THE MANUFACTURER OF THE SUPPORTED EQUIPMENT.
- CONTRACTOR SHALL LOCATE ALL EQUIPMENT AND PRODUCTS WHICH REQUIRE SERVICE, OPERATION, OBSERVATION, OR MAINTENANCE IN FULLY ACCESSIBLE POSITIONS. IF REQUIRED FOR BETTER ACCESSIBILITY, ANY CHANGE(S) OF LOCATION SHALL BE SUBMITTED BY CONTRACTOR TO ENGINEER FOR REVIEW AND APPROVAL BEFORE RELOCATION IS MADE. CONTRACTOR SHALL PROVIDE ACCESS PANELS FOR CONCEALED VALVES, FIRE DAMPERS, AND OTHER DEVICES REQUIRING SERVICE. ACCESS PANELS IN THE SURFACES OF THE PREMISES, EQUIPMENT, DUCTWORK, AND OTHER SURFACES, WHETHER OR NOT SPECIFICALLY SHOWN ON THE DRAWINGS, SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR AT NO ADDITIONAL COST TO OWNER. ACCESS PANELS SHALL BE OF A TYPE AND FINISH WHICH, IN THE OPINION OF ARCHITECT, ARE AESTHETICALLY ACCEPTABLE.
- CONTRACTOR IS RESPONSIBLE FOR PROPER SUPPORT OF ALL EQUIPMENT, DUCTWORK, PIPING, CONDUITS, ETC. COORDINATE EXACT LOCATION OF ALL M.E.P. ITEMS (I.E., DUCTWORK, PIPING, CONDUITS, ETC.) WITH STRUCTURAL, ARCHITECTURAL, OTHER DISCIPLINES.
- ALL PRODUCTS, MATERIALS, WORK, AND TECHNIQUES SHALL COMPLY WITH THE MOST RIGID STANDARDS AND RECOMMENDATIONS OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA); THE INTERNATIONAL CODES (PLUMBING, GAS, MECHANICAL, ELECTRICAL, AND BUILDING) AS MODIFIED AND/OR ADAPTED BY LOCAL AUTHORITIES; THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME); THE AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM); AND THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI). ALL MATERIALS AND EQUIPMENT FOR THE ELECTRICAL PORTION OF THE MECHANICAL SYSTEMS SHALL BEAR THE APPROVAL LABEL OF UNDERWRITERS LABORATORIES, INC. (UL).
- THE CONTRACTOR SHALL PHASE DEMOLITION AND CONSTRUCTION WORK SUCH THAT OWNER'S NORMAL DAY-TO-DAY OPERATIONS CAN BE ACCOMPLISHED WITHOUT DELAY. THE CONTRACTOR SHALL COORDINATE PHASING AND SCHEDULING OF WORK WITH OWNER AND SHALL PROVIDE NIGHT AND WEEKEND CREWS IF REQUIRED BY OWNER. CONTRACTOR SHALL NOT BE COMPENSATED EXTRA FOR OVERTIME.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY POWER AND LIGHTING DURING DEMOLITION AND CONSTRUCTION PER INDUSTRY SAFETY STANDARDS.
- ALL MATERIALS DISCONNECTED AND REMOVED SHALL REMAIN THE PROPERTY OF THE OWNER, AND SHALL BE NEATLY PACKAGED BY THE CONTRACTOR FOR REUSE BY THE OWNER. THE OWNER SHALL DETERMINE WHAT DEMOLITION MATERIAL ARE TO BE SALVAGED. STOCKPILE SALVAGED MATERIALS IN AREAS DESIGNATED BY THE OWNER. CONTRACTOR SHALL REMOVE FROM SITE ITEMS WHICH OWNER DEFINES AS NON-SALVAGABLE.
- THE CONTRACTOR SHALL VISIT THE SITE DURING THE BIDDING PERIOD TO COMPLETELY FAMILIARIZE SELF WITH THE SCOPE OF WORK, CONDITIONS, AND VERIFY FIELD MEASUREMENTS AND CIRCUITING ARRANGEMENTS. INCLUDE IN THE BID ALL NECESSARY COSTS ASSOCIATED WITH PERFORMANCE OF THE WORK.

PIPING NOTES

- PROTECT PIPING SYSTEMS FROM ENTRY OF FOREIGN MATERIALS BY TEMPORARY COVERS AND ISOLATING PARTS OF COMPLETED SYSTEM.
- STORE PLASTIC PIPE AND OTHER MATERIALS, WHICH MAY BE DAMAGED BY ULTRAVIOLET LIGHT, UNDER COVER WHICH REFLECTS ULTRAVIOLET WAVES.
- DO NOT INSTALL UNDERGROUND PIPING WHEN BEDDING IS WET OR FROZEN.
- PREPARATION: REAM PIPE AND TUBE ENDS. REMOVE BURRS. BEVEL PLAIN END FERROUS PIPE. REMOVE SCALE AND DIRT, ON INSIDE AND OUTSIDE, BEFORE ASSEMBLY.
- PIPE INSTALLATION: INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. PROVIDE NON-CONDUCTING DIELECTRIC CONNECTIONS WHEN JOINING DISSIMILAR METALS. ROUTE PIPING IN ORDERLY MANNER AND MAINTAIN GRADIENT. INSTALL PIPE IN DIRECTIONS WHICH ARE SQUARE TO BUILDING MAIN COORDINATES. INSTALL PIPING TO CONSERVE BUILDING SPACE AND NOT INTERFERE WITH USE OF SPACE BY OTHER TRADES. GROUP PIPING WHENEVER PRACTICAL AT COMMON ELEVATIONS. INSTALL PIPING TO ALLOW FOR EXPANSION AND CONTRACTION WITHOUT STRESSING PIPE, JOINTS, OR CONNECTED EQUIPMENT. PROVIDE CLEARANCE FOR INSTALLATION OF INSULATION AND ACCESS TO VALVES AND FITTINGS. PROVIDE ACCESS DOORS WHERE VALVES, ADJUSTABLE DEVICES, AND DEVICES REQUIRING MAINTENANCE OR SERVICE ARE NOT EXPOSED. WHERE PIPE SUPPORT MEMBERS ARE WELDED TO STRUCTURAL BUILDING FRAMING, SCRAPE, BRUSH CLEAN, AND APPLY ONE COAT OF ZINC RICH PRIMER TO WELDING. PREPARE PIPE, FITTINGS, SUPPORTS, AND ACCESSORIES NOT PRE-FINISHED, READY FOR PAINTING. INSTALL VALVES WITH STEMS UPRIGHT OR HORIZONTAL, NOT INVERTED. PIPE PRESSURE AND TEMPERATURE RELIEF VALVES TO FLOOR DRAIN, FLOOR SINK, OR EXTERIOR, AS REQUIRED BY CODE.
- PIPE TESTING: WATER SUPPLY: UPON COMPLETION OF A SECTION OR OF THE ENTIRE WATER SUPPLY SYSTEM, IT SHALL BE TESTED AND PROVED TIGHT UNDER A WATER PRESSURE NOT LESS THAN 25 PSI ABOVE THE WORKING PRESSURE UNDER WHICH IT IS TO BE OPERATED. THE WATER USED FOR TEST SHALL BE OBTAINED FROM A POTABLE SOURCE OF SUPPLY. BUILDING SEWER: GRAVITY SEWER TESTS SHALL CONSIST OF PLUGGING THE END OF THE BUILDING SEWER AT THE POINT OF CONNECTION WITH THE PUBLIC SEWER, FILLING THE BUILDING SEWER WITH WATER TO A HEAD OF 10 FT. AND MAINTAINING SUCH PRESSURE UNTIL BACKFILL IS COMPLETED. (SEWER MAY BE TESTED IN SEGMENTS FOR REMODEL PROJECTS.)
- PIPE TOLERANCES: ESTABLISH INVERT ELEVATIONS, SLOPES FOR DRAINAGE TO 1/4 INCH PER FOOT MINIMUM UNDERNEATH THE BUILDING AND A 1/8 INCH PER FOOT MINIMUM OUTSIDE THE BUILDING.

SUPPORT

- ADEQUATELY SUPPORT PIPING AGAINST SAGGING, POCKETING, AND DISPLACEMENT.
- SIZE SLEEVES LARGE ENOUGH TO ALLOW FOR MOVEMENT DUE TO EXPANSION AND CONTRACTION. PROVIDE FOR CONTINUOUS INSULATION WRAPPING. SLEEVES FOR PIPES THROUGH NONFIRE RATED FLOORS: FORM WITH 18 GAGE GALVANIZED STEEL. ALL PENETRATIONS THROUGH FLOORS, WALLS AND CEILINGS, SHALL BE SEALED IN ACCORDANCE WITH THE GOVERNING REGULATIONS. ALL PIPES PASSING THROUGH FLOORS, WALLS, AND CEILINGS SHALL BE SLEEVED, INSULATED, AND SEALED.
- WALL SUPPORT FOR PIPE SIZES TO 3 INCHES : CAST IRON HOOK. WALL SUPPORT FOR PIPE SIZES 4 INCHES AND OVER: WELDED STEEL BRACKET AND WROUGHT STEEL CLAMP; ADJUSTABLE STEEL YOKE.
- VERTICAL SUPPORT: STEEL RISER CLAMP.
- FLOOR SUPPORT FOR PIPE SIZES TO 4 INCHES AND ALL COLD PIPE SIZES: CAST IRON ADJUSTABLE PIPE SADDLE, LOCKNUT NIPPLE, FLOOR FLANGE, AND CONCRETE PIER OR STEEL SUPPORT.
- COPPER PIPE SUPPORT: CARBON STEEL RING, ADJUSTABLE, COPPER PLATED.
- SHIELD FOR INSULATED PIPING 2 INCHES AND SMALLER: 18 GAGE GALVANIZED STEEL SHIELD OVER INSULATION IN 180 DEGREE SEGMENTS, MINIMUM 12 INCHES LONG AT PIPE SUPPORT.
- SHIELDS FOR INSULATED COLD WATER PIPING 2-1/2 INCHES AND LARGER HARD BLOCK NON-CONDUCTING SADDLES IN 90 DEGREE SEGMENTS, 12 INCH MINIMUM LENGTH, BLOCK THICKNESS SAME AS INSULATION THICKNESS.

DUCTWORK AND ACCESSORIES

- ALL DUCTWORK TO BE GALVANIZED STEEL, ASTM A525, LOCK-FORMING QUALITY HAVING ZINC COATING OF 1.25 OZ PER SQ. FT. FOR EACH SIDE IN CONFORMANCE WITH ASTM A90.
- RECTANGULAR LOW-PRESSURE DUCTS: FOLLOW STANDARDS FOR 2" POSITIVE STATIC PRESSURE PER SMACNA-85 TABLE 1-7 AND INTERMEDIATE REINFORCEMENT TABLE 1-10 AND 1-11.
- PROVIDE ALL PURPOSE SEALANT FOR USE ON METAL DUCTS.
- FABRICATE MANUAL VOLUME CONTROL DAMPERS IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS. PROVIDE LOCKING, INDICATING QUADRANT REGULATORS, WHERE ROD LENGTHS EXCEED 30" PROVIDE REGULATOR AT BOTH ENDS.

SUPPORTS AND ANCHORS

- DUCT SUPPORT: PER SMACNA SECTION IV HANGERS AND SUPPORTS CHAPTER, FIG. 4-4, TABLES 4-1 FOR RECTANGULAR DUCTS AND TABLE 4-2 FOR ROUND DUCTS.
- STEEL HANGER RODS: THREADED BOTH ENDS, THREADED ONE END, OR CONTINUOUS THREADED. WIRE HANGERS ARE NOT ALLOWED.
- SLEEVES FOR RECTANGULAR DUCTWORK: FORM WITH GALVANIZED STEEL.

TESTING ADJUSTING AND BALANCING

- TESTING, ADJUSTING, AND BALANCING SHALL BE PERFORMED IN ACCORDANCE WITH NEBB.

PIPING AND DUCTWORK INSULATION

- PLUMBING PIPING (GLASS FIBER):
 - MANUFACTURERS: MANVILLE MICROLOK AP-T, OWENS CORNING ASJ/SSL-11, KNAUF PIPE INSULATION ASJ/SSL OR EQUAL.
 - INSULATION: ASTM C547; RIGID MOLDED, NONCOMBUSTIBLE. INSULATION: ASTM C547; RIGID MOLDED, MINIMUM SERVICE TEMPERATURE: -60. F. MAXIMUM SERVICE TEMPERATURE: 850 F. MAXIMUM MOISTURE ABSORPTION: 0.2 PERCENT BY VOLUME. ALL THERMAL SYSTEM INSULATION (TSI) SHALL BE NON-ASBESTOS CONTAINING BUILDING MATERIAL.
 - VAPOR BARRIER JACKET, ASTM C921, WHITE KRAFT PAPER REINFORCED WITH GLASS FIBER YARN AND BONDED TO ALUMINIZED FILM. MOISTURE VAPOR TRANSMISSION: ASTM E96; 0.02 PER INCHES. SECURE WITH SELF SEALING LONGITUDINAL LAPS AND BUTT STRIPS. SECURE OUTWARD CLINCH EXPANDING STAPLES AND VAPOR BARRIER MASTIC.
- DUCTWORK (GLASS FIBER, FLEXIBLE):
 - MANUFACTURERS: MANVILLE R-SERIES MICROLITE, OWENS CORNING AS(FULL SERVICE FACED), KNAUF MULTI-PURPOSE DUCT WRAP, OR EQUAL.
 - INSULATION: 'K' VALUE: ASTM C518, 0.30 BTU-IN/H-F-T2-F AT 75 F. MAXIMUM SERVICE TEMPERATURE: 250 F. MAXIMUM MOISTURE ABSORPTION: 0.20 PERCENT BY VOLUME. DENSITY: 1.0 LB/CU FT. THICKNESS: 1.5 INCHES.
 - VAPOR BARRIER JACKET, KRAFT PAPER REINFORCED WITH GLASS FIBER YARN AND BONDED TO ALUMINIZED FILM. MOISTURE VAPOR TRANSMISSION: ASTM E96; 0.02 PERM.

PIPING MATERIALS

- WATER PIPING BURIED WITHIN BUILDING:
 - COPPER TUBING: ASTM B88, TYPE K, HARD DRAWN
 - FITTINGS: ASTM B16.18, CAST BRONZE OR ASTM B16.22 WROUGHT COPPER AND BRONZE
 - JOINTS: ASTM B32, SOLDER, GRADE 95TA
 - CATHODIC PROTECTION: GALVANIC TYPE WITH MAGNESIUM ANODES WIRED TO PIPING. ABSOLUTELY NO JOINTS UNDER SLAB.
- WATER PIPING ABOVE GRADE:
 - COPPER TUBING: ASTM B88, TYPE L, HARD DRAWN
 - FITTINGS: ASTM B16.18, CAST BRONZE OR ASTM B16.22 WROUGHT COPPER AND BRONZE
 - JOINTS: ASTM B32, SOLDER, GRADE 95TA
- SANITARY SEWER PIPING BURIED WITHIN AND BEYOND 5 FEET OF BUILDING:
 - PVC PIPE: DW WEIGHT
 - FITTINGS: PVC DW WEIGHT
 - JOINTS: ASTM F477, ELASTOMERIC GASKETS

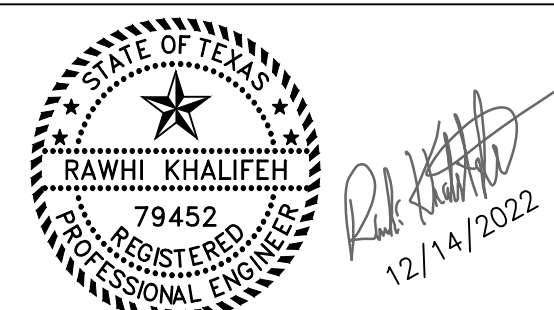
SEWER AND WATER LINES SCHEDULE				
DESCRIPTION	W	V	C.W	H.W
HAND SINK	2"	2"	1/2"	1/2"
MOP SINK	3"	2"	1/2"	1/2"
3 COMP SINK	3"	3"	1"	1"
WATER CLOSET	3"	2"	3/4"	
E W H		1"	1"	
FLOOR SINK	3"	2"		
FOOD	3"	2"		
EXTERIOR SEWER LINE	6"			

STORE		
DESCRIPTION	S.U.	TOTAL S.U.
1-3 COMPARTMENT SINK 2"	4 UNITS	1
2 FLOOR SINK 3"	3 UNITS	6
3 H.S. 1.5"	0 UNITS	0
1 MOP SINK 1.5"	2 UNITS	2
7 FLOOR DRAIN 3"	3 UNITS	21
TOTAL		33

PER CITY OF BRYAN REQUIRED USE 1,188 GAL G.T.

GREASE TRAP SIZING

PLUMBING LEGEND					
GENERAL		LINETYPES AND ABBREVIATIONS		DUCTWORK, VALVES AND FITTINGS	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	DETAIL #	---	NATURAL GAS LINE (LOW PRESSURE)		SUPPLY DUCTWORK UP
	# OF SHEET ON WHICH CONDITION IS DRAWN	---	MEDIUM PRESSURE NATURAL GAS LINE		RETURN/EXHAUST DUCTWORK UP
	NORTH DIRECTION	---	CONDENSATE DRAIN LINE		SUPPLY DUCTWORK DOWN
	KEYED NOTES	---	REFRIGERANT SUCTION LINE		RETURN DUCTWORK DOWN
	NEW EQUIPMENT	---	REFRIGERANT LIQUID LINE		SUPPLY REGISTER CFM'S, NECK SIZE AND TYPE
	NEW WORK INTERFACE	---	RTU		RETURN REGISTER CFM'S, NECK SIZE AND TYPE
	EXIST.	---	ROOF TOP UNIT		TYPICAL PLUMBING FIXTURE CONNECTIONS
	A.F.F.	---	EVAPORATIVE COOLER		NATURAL GAS SHUT-OFF VALVE
	P.S.I.	---	EXHAUST FAN		ISOLATION VALVE
		---	RELIEF HOOD		PIPING TURNING DOWN
		---	EXIST.		PIPING TURNING UP
		---	EXISTING DOMESTIC WATER LINE		PIPING CONTINUATION
		---	EXISTING SEWER LINE		INDICATES DIRECTION PIPING SHOULD SLOPE
		---	NATURAL GAS LINE		NATURAL GAS REGULATOR (REGULATE TO 0.5 PSI)
		---	DOMESTIC COLD WATER LINE		WATER METER
		---	DOMESTIC HOT WATER LINE		CIRCUIT SETTING VALVE
		---	SANITARY SEWER LINE		
		---	VENT LINE		
		---	CONDENSATE DRAIN LINE		
		---	GAS METER		
		---	EXISTING MAN HOLE		
		---	FLOOR OUT		
		---	DOUBLE CLEAN OUT		
		---	WALL CLEAN OUT		
		---	BACKFLOW PREVENTER		
		---	KITCHEN HOOD		
		---	MAKE UP AIR UNIT		



ISSUE HISTORY		REVISIONS	
DATE	ISSUED FOR	DESCRIPTION	
5-16-22	ISSUE FOR PERMITTING	CONSTRUCTION DRAWINGS	

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 HOUSTON, TEXAS 77041 FAX (281) 580-4399
 FIRM # F-11211

VILLA MARIA GAS STATION
 1919 WEST VILLA MARIA ROAD
 BRYAN, TX 77807
PLUMBING GENERAL NOTES
 DRAWN BY: BM DATE: 9-15-2021 SHEET: **P-00**
 CHECKED BY: RSK PROJ. NO.: VR151003.317.4 Rev.0

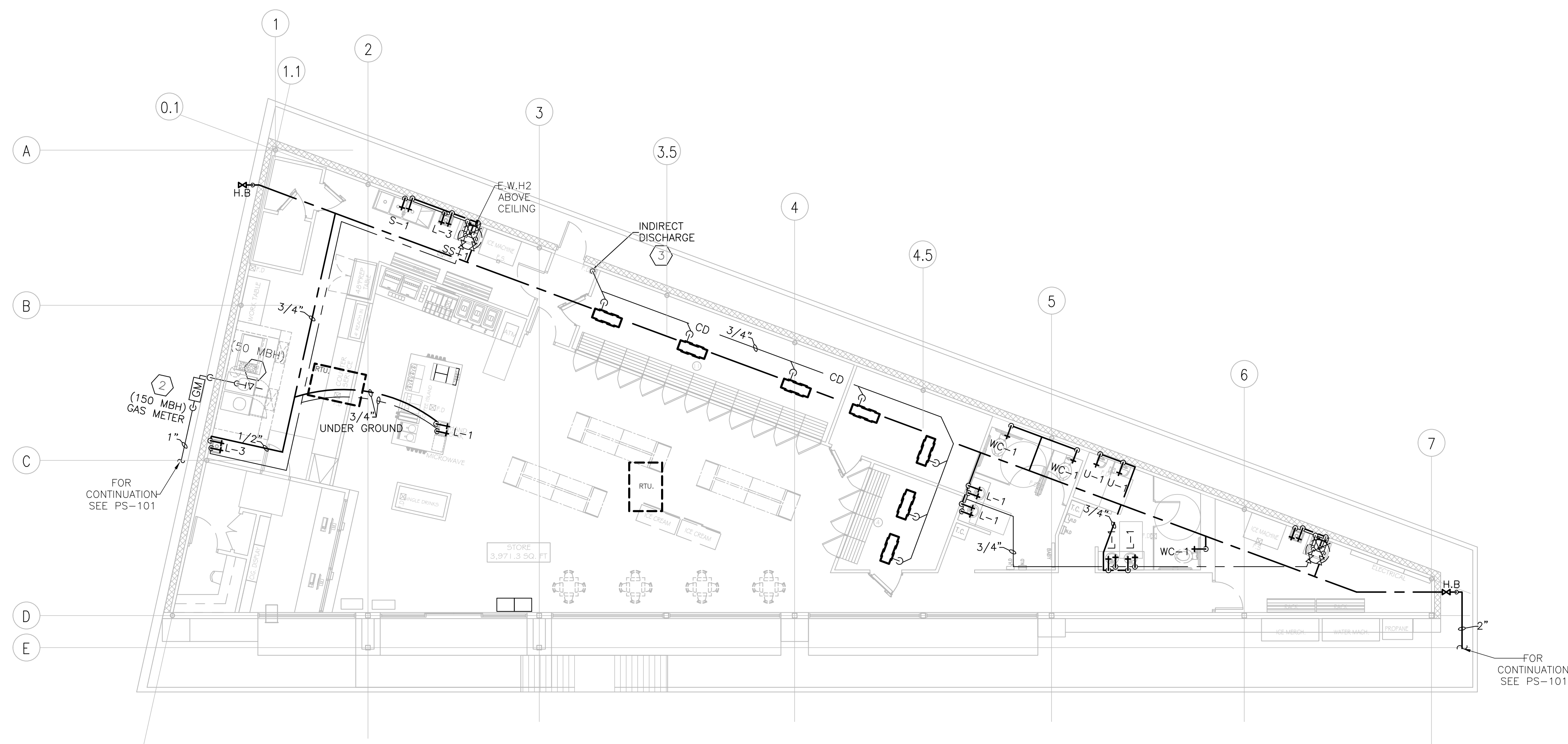
GRAPHIC SCALE

GENERAL NOTES:

1. CONTRACTOR SHALL COORDINATE ACTUAL LOCATIONS OF ALL WATER, SEWER AND NATURAL GAS LINES BEFORE COMMENCING ANY WORK.
2. CONTRACTOR SHALL COORDINATE ACTUAL SLOPE OF SEWER LINE TO DETERMINE PROPER CONNECTION BEFORE COMMENCING ANY WORK.
3. CONDENSATE DRAIN LINES TO BE RUN IN CEILING SPACE AND SLOPE AT 1/8" PER FOOT.
4. NATURAL GAS PIPING TO RUN IN ROOF.
5. ALL VENDING MACHINES (COFFEE, TEA, SLUSHEES, ETC) SHOULD HAVE RPZ.

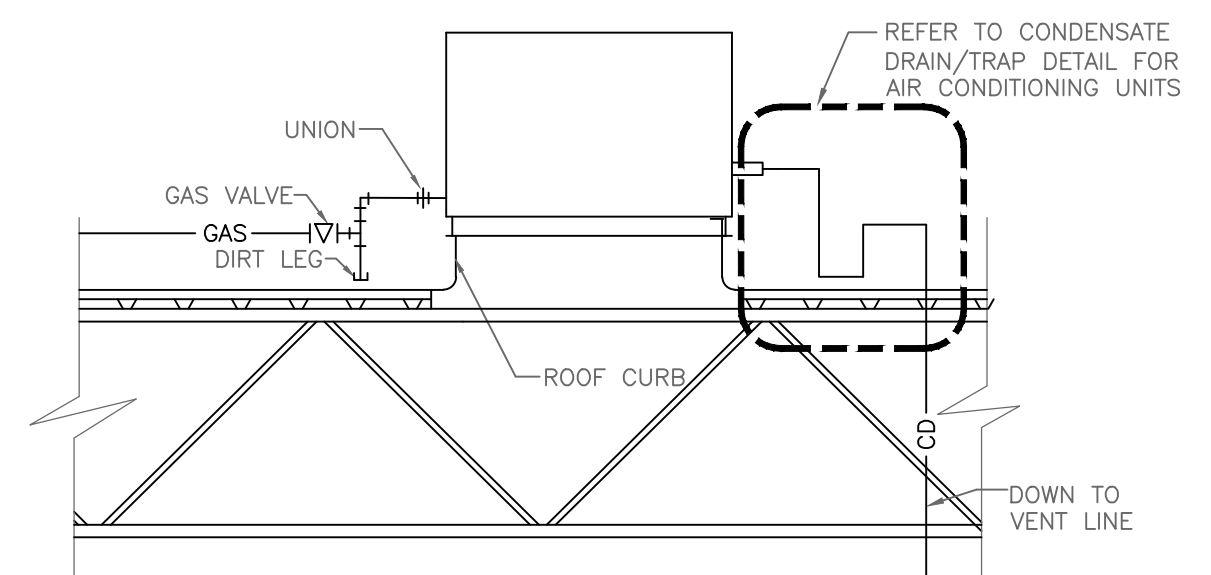
KEYED NOTES:

- 1 NATURAL GAS LINE DOWN THRU ROOF TO COOKING EQUIPMENT. FIELD TO COORDINATE ACTUAL LOCATION AND REQUIREMENTS.
- 2 PROVIDE NATURAL GAS METER WITH PRESSURE REGULATOR AT LOCATION SHOWN.
- 3 3/4" CONDENSATE DRAIN LINE DOWN TIGHT TO WALL TO DRAIN INDIRECTLY INTO FLOOR SINK AS REQUIRED.
- 4 DOMESTIC WATER VALVE AND CAP FOR FUTURE USE.

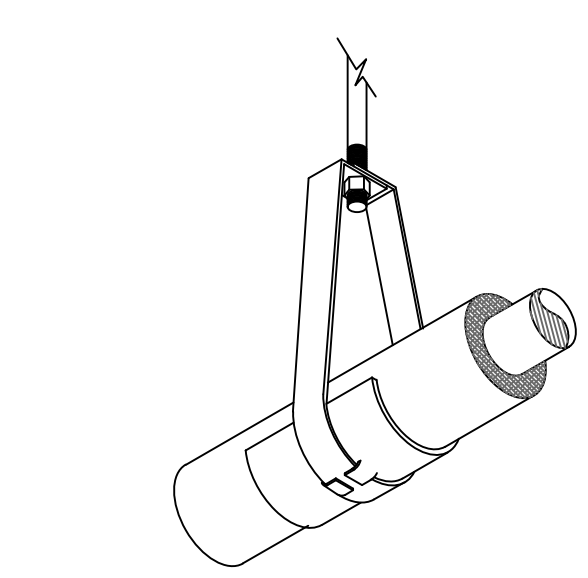


PLUMBING WATER & GAS LINE FLOOR PLAN

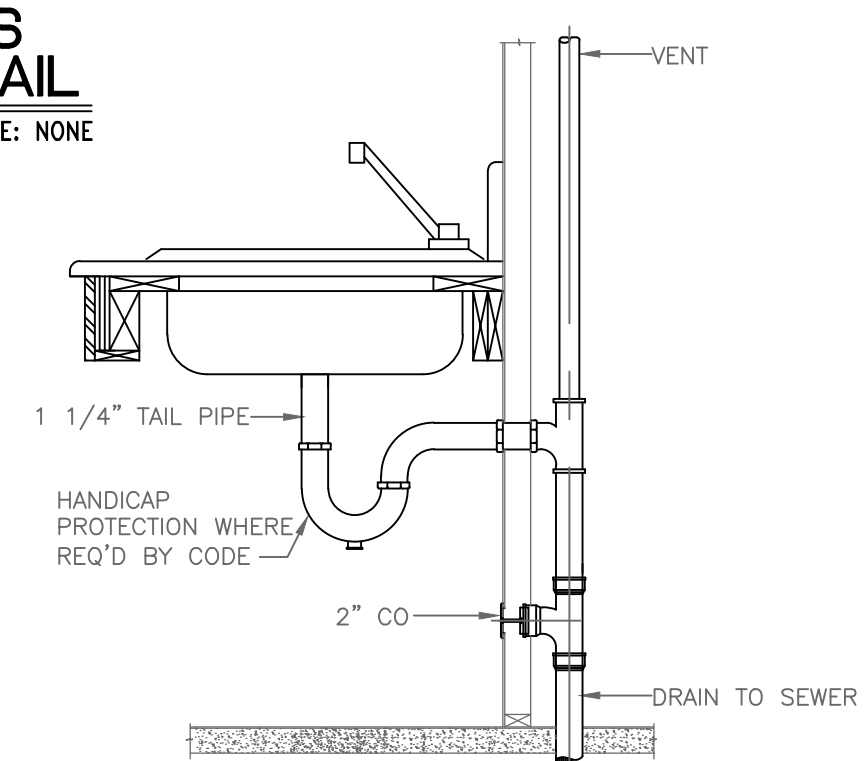
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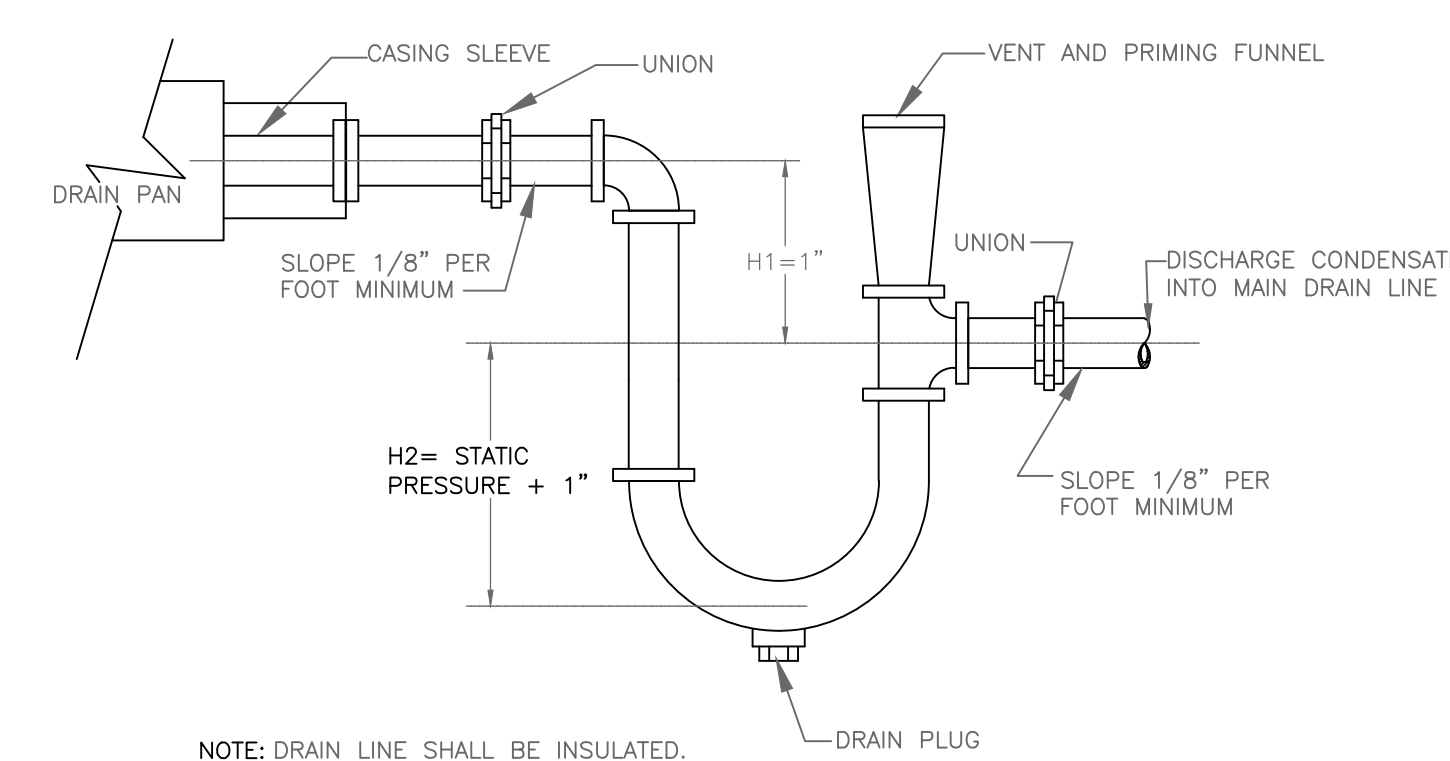
1 TYPICAL CONDENSATE DRAIN/TRAP AND GAS PIPING CONNECTION TO ROOF TOP UNIT DETAIL
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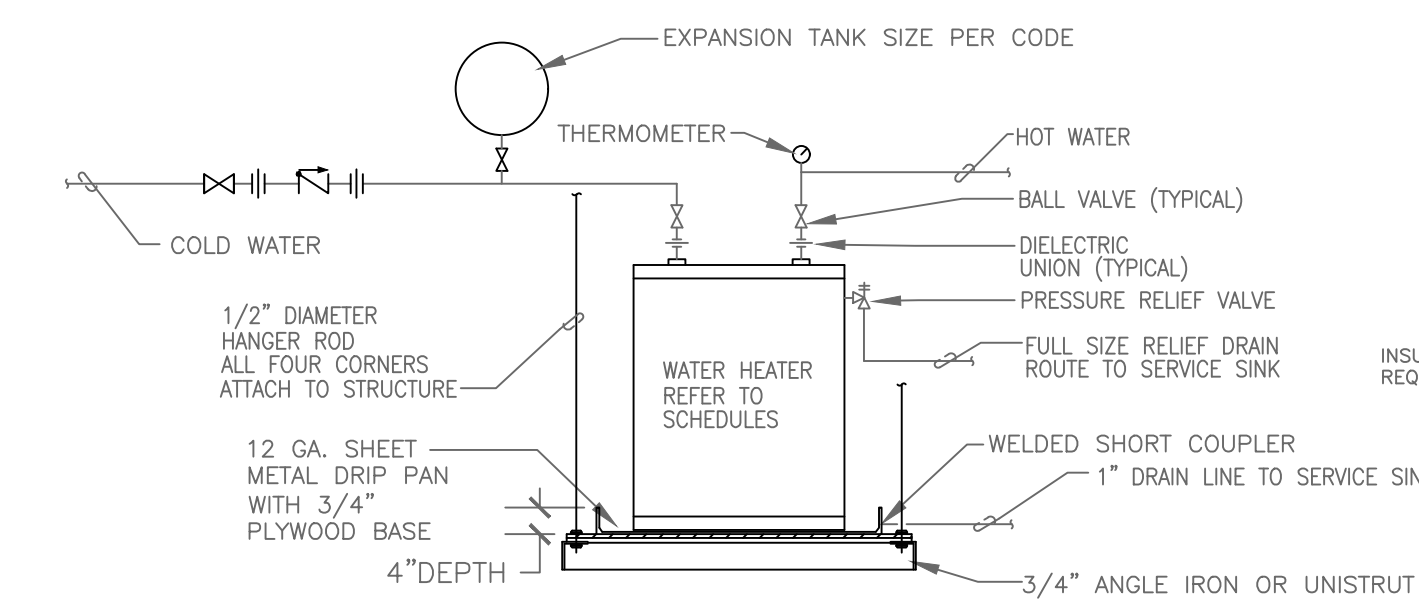
4 TYPICAL INSULATION PROTECTION SHIELD WITH "LOC" TABS DETAIL
SCALE: NONE



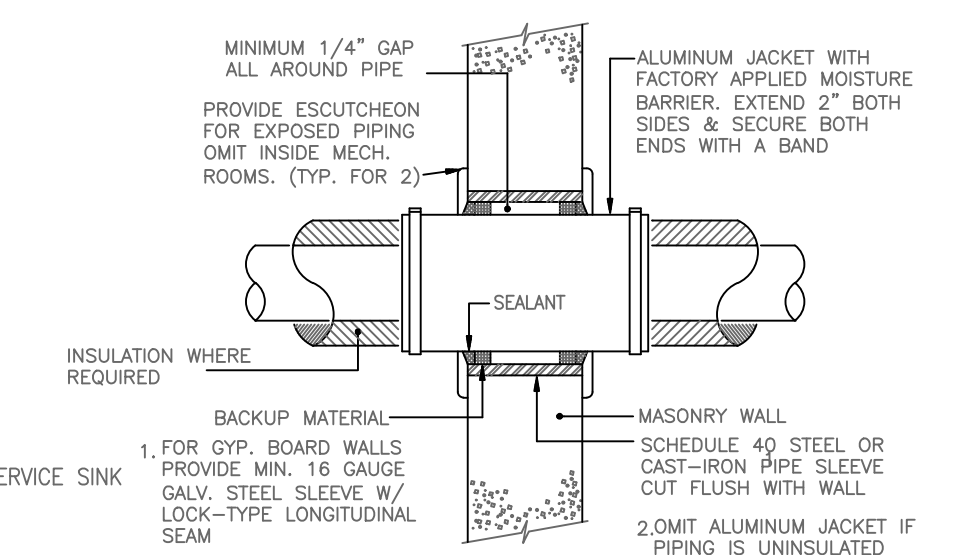
5 WALL FIXTURE DETAIL
SCALE: NONE



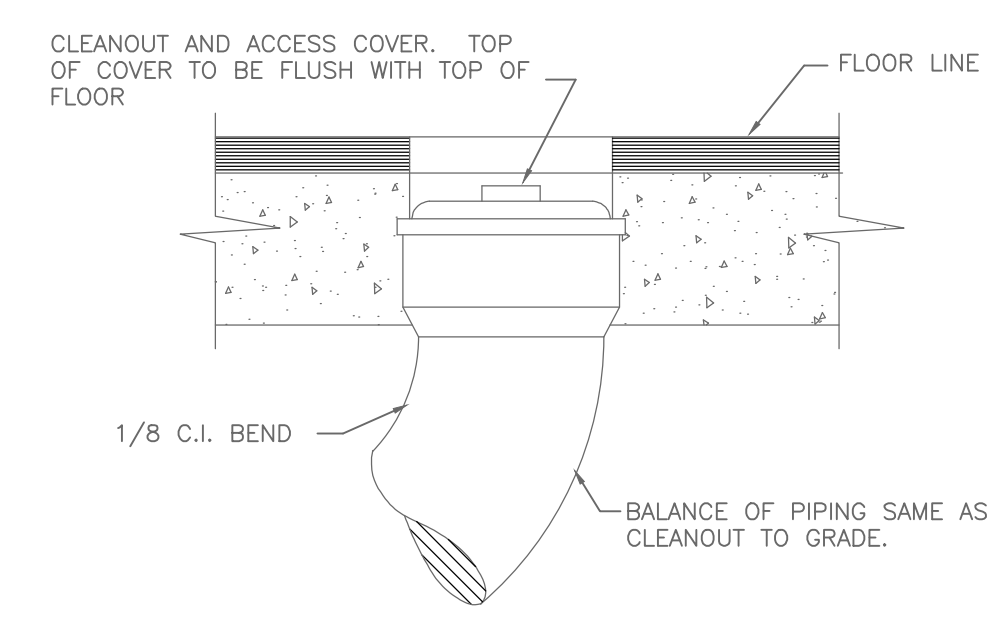
6 TYPICAL CONDENSATE DRAIN/TRAP FOR AIR CONDITION UNITS DETAIL
SCALE: NONE



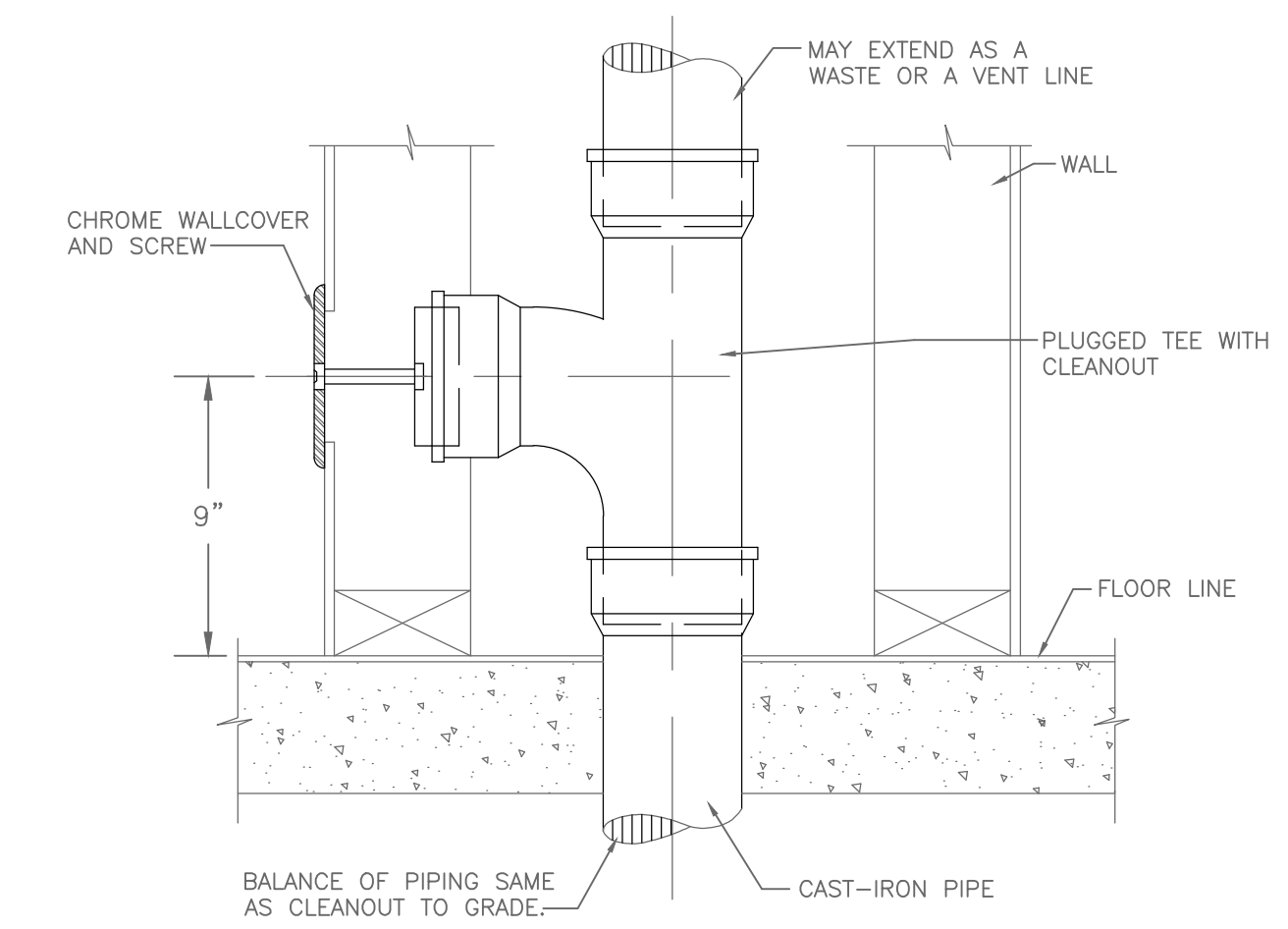
2 ELECTRIC WATER HEATER DETAIL
SCALE: NONE



3 TYPICAL WALL PIPE PENETRATION DETAIL
SCALE: NONE

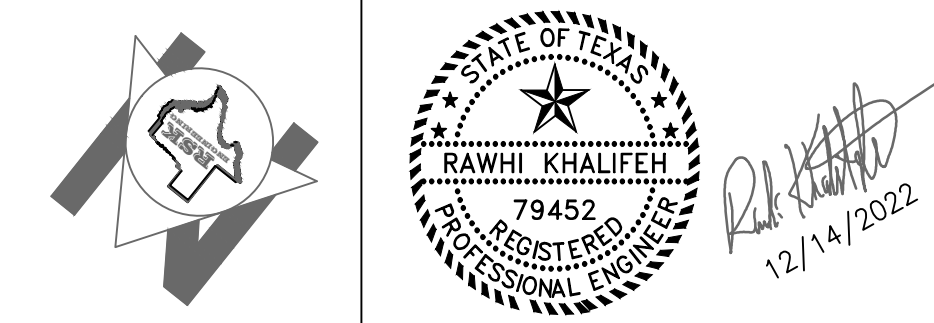


7 FLOOR CLEANOUT DETAIL
SCALE: NONE



8 WALL CLEANOUT DETAIL
SCALE: NONE

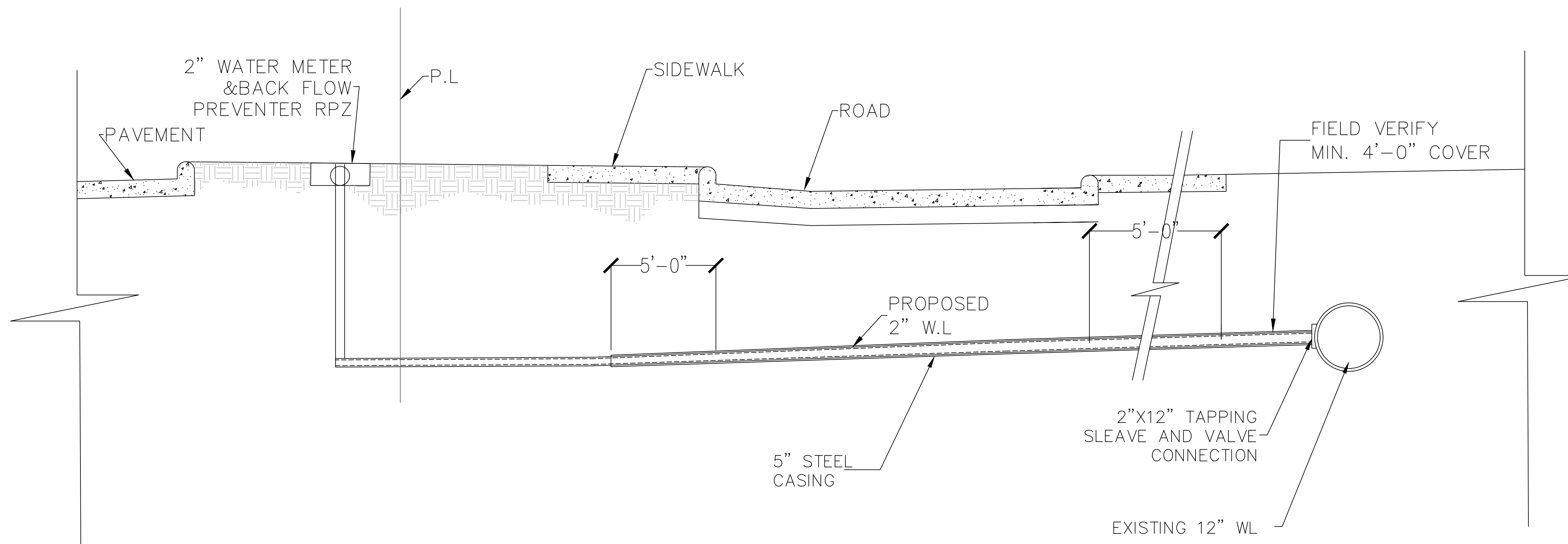
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GRAPHIC SCALE



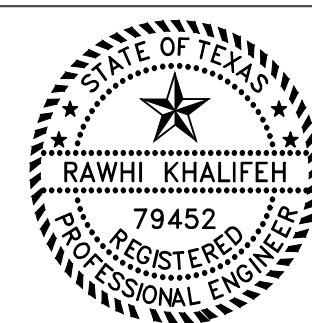
ISSUE HISTORY		REVISIONS	
DATE	ISSUED FOR	DESCRIPTION	
5-16-22	ISSUE FOR PERMITTING	CONSTRUCTION DRAWINGS	
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FIRM # F-11211

VILLA MARIA GAS STATION
1919 WEST VILLA MARIA ROAD
BRYAN, TX 77807
PLUMBING WATER & GAS LINE FLOOR PLAN
DRAWN BY: BM DATE: 9-15-2021 SHEET:
CHECKED BY: RSK PROJ. NO.: VR151003.317.4 **P-102** Rev.0



SECTION 1 SCALE N.T.S



Rawhi Khalifeh
12/14/2022

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FIRM # F-11211

VILLA MARIA GAS STATION		
1919 WEST VILLA MARIA ROAD		
BRYAN, TX 77807		
WATER LINE PROFILE		
DRAWN BY: BM	DATE: 12-6-2021	SHEET:
CHECKED BY: RSK	PROJ. NO.: VR151003.317.4	P-103 Rev.0

GRAPHIC SCALE

PLUMBING FIXTURE SCHEDULE										
SYMBOL	MINIMUM CONNECTIONS				TYPE	MANUFACTURER	FIXTURE	OPTIONS		
	CW	HW	VENT	WASTE						
WC-1	1"	--	2"	4"	FLOOR MOUNTED FLUSH VALVE ADA COMPLIANT WATER CLOSET ELONGATED CHINA BOWL, EXPOSED FLUSH VALVE WITH VANDAL RESISTANT STOP CAP 2.3 GALLONS PER FLUSH, EXTRA HEAVY DUTY OPEN FRONT WHITE SEAT, EXPOSED FLUSH VALVE WITH 1" TOP SPUD, FLUSH HANDLE ON WIDE SIDE OF TOILET WHERE SHOWN FOR HANDICAPPED ACCESSIBILITY, 16-1/8" TO RIM TOP.	ZURN Z5665-BWL CT705ELN-01 UNIVERSAL COMMERCIAL FLUSHMETER				
WC-2	1"	--	2"	4"	FLOOR MOUNTED FLOOR OUTLET FLUSH VALVE WATER CLOSET ELONGATED CHINA BOWL, BOTTOM OUTLET, EXTRA HEAVY DUTY OPEN FRONT WHITE SEAT, EXPOSED FLUSH VALVE WITH VANDAL RESISTANT STOP CAP, FLUSH HANDLE ON WIDE SIDE OF TOILET, 2.3 GALLONS PER FLUSH, 14-1/8" TO RIM TOP.	SANIFLO_Q03 ROUND BOWL AMERICAN STANDARD 2599.001.020				
U-1	3/4"	--	2"	2"	WALL MOUNTED WASHOUT URINAL TAPERED ELONGATED CHINA BOWL, 6.3 GALLON PER FLUSH, RIM 14" FROM WALL, EXTENDED SIDES, 3/4" TOP SPUD, VANDAL RESISTANT STOP CAP, MOUNT STANDARD OCCUPANCY URINAL'S RIM HEIGHT AT A MAXIMUM OF 24"	AMER STD 8501.010 KOHLER K-4990-ET	VALVE: ZURN Z-6003AV-W5-1 CARRIER - ZURN Z-1221			
L-1	1/2"	1/2"	1-1/2"	1-1/2"	COUNTERTOP ADA COMPLIANT LAVATORY VITREOUS CHINA, NOMINAL 20"x17" SELF-RIMMING, FRONT OVERFLOW, RECESSED FAUCET LEDGE, ADA COMPLIANT SINGLE LEVER HANDLE, SINGLE FAUCET HOLE, LESS DRAIN, WASHERLESS, DRAIN OUTLET WITH GRID STRAINER	ELIER 052-3514 LAURA AMER. STD 0475 047 AQUALYN KOHLER K-2196-1PENNINGTON CRANE1-287-H	FAUCET - ZURN AQUASPEC Z-82200, CHICAGO 2200 DRAIN - AMER. STD. 2411.015, ELIER 803-0552 WH SHALL HAVE TEMPERATURE MIXING VALVE 1/2" THE THERMOSTATIC MIXING VALVE 95 TO 115 F (ZW 1070XL IS ASSE 1070 LISTED)			
L-2	1/2"	1/2"	1-1/2"	1-1/2"	WALL MOUNTED ADA COMPLIANT LAVATORY VITREOUS CHINA, NOMINAL 20"x18", BACK AND SIDE SPLASHES, FOR CONCEALED ARM CARRIER, SINGLE CENTERED FAUCET HOLE, ADA COMPLIANT SINGLE LEVER FAUCET, LESS ESCUTCHEON PLATE, LESS DRAIN, CAST BRASS CONSTRUCTION, WATER LESS DRAIN OUTLET WITH GRID STRAINER	ELIER 051-2644 DELWYN AMER. STD 0358.421 LUCERNE KOHLER K-2007 KINGSTON CRANE 1-412H	FAUCET - ZURN Z-82200 AQUASPEC, CHICAGO 2200 CARRIER - ZURN Z-1231, OR EQUAL BY WADE, WATTS, JOSAM OR JR SMITH DRAIN - AMER. STD. 2411.015, ELIER 803-0552 WH SHALL HAVE TEMPERATURE MIXING VALVE 1/2" THE THERMOSTATIC MIXING VALVE 95 TO 115 F (ZW 1070XL IS ASSE 1070 LISTED)			
L-3	1/2"	1/2"	1-1/2"	1-1/2"	WALL MOUNTED STAINLESS STEEL ADA COMPLIANT LAVATORY STAINLESS STEEL, NOMINAL 20"x18", BACK AND SIDE SPLASHES, FOR CONCEALED ARM CARRIER, FAUCET HOLES ON 4" CENTERS, ADA COMPLIANT WRIST BLADE GOOSENECK FAUCET, LESS ESCUTCHEON PLATE, LESS DRAIN, CAST BRASS CONSTRUCTION, WASHERLESS, DRAIN OUTLET WITH GRID STRAINER	BRADLEY 921-6101VFM	FAUCET - ZURN Z-82200 AQUASPEC, AMER. STD. 7500.170 CHICAGO 895-317 CARRIER - ZURN Z-1231 OR EQUAL BY WADE, WATTS, JOSAM OR JR SMITH DRAIN - AMER. STD. 2411.015, ELIER 803-0552			
S-1	3/4"	3/4"	2"	2"	THREE COMPARTMENT SINK - COMMERCIAL 18 GA. STAINLESS STEEL, NOMINAL (15X15X12(LXWXD)) BOWL, EACH BOWL NOMINAL 12" BACK FLANGES WITH ROUNDED INTERNAL ANGLES, TWO ADA COMPLIANT WIDE SET F WITH AERATOR, ADA COMPLIANT WRIST BLADE HANDLE, DRAIN OUTLETS WITH GRID STRAINER	JUST TLX-2255-A-GR ELKAY LTR-5422-10	FAUCET JUST J-1147-KS, ELKAY LK-232-S-BH-5 OR EQUAL DRAIN - J-35FS			
SS-1	3/4"	3/4"	2"	3"	FLOOR MOUNTED MOLDED STONE CORNER STYLE SERVICE SINK TERRAZZO OR MOLDED STONE COMPOSED OF MARBLE CHIPS IMBEDDED IN PORTLAND CEMENT, NOMINAL 24"x24"x10" HIGH, WALL MOUNTED FAUCET WITH VACUUM BREAKER, TOP BRACE, INTEGRAL STOPS, HOSE THREADED SPOUT, PROVIDE 3" DRAIN OUTLET WITH DOME STRAINER, MOP HANGER, HOSE/BRACKET COMBINATION, STAINLESS STEEL BUMPER GUARD AND STAINLESS STEEL SPLASH CATCHER PANELS.	STERN WILLIAMS SBC-902 FLORESTONE 85	FAUCET - JONESPEC SF, STERNS WILLIAM T-10-VB MOP HANGER - JONESPEC MH, STERNS WILLIAM T-40 HOSE BRACKET - JONESPEC HH, STERNS WILLIAM T-35 SINK SHALL BE LAID IN A GROUT BED COVERING THE ENTIRE BASE OF THE SINK.			
HB	3/4"	--	--	--	INTERIOR HOSE BIBB ANTI-SIPHON VACUUM BREAKER, STAINLESS STEEL STEM, LOOSE TEE HANDLE WITH LOCK SHIELD, ROUGH CHROME PLATED FINISH.	WOODFORD #24 CHICAGO FAUCET #387-E27 ZURN Z-80200-VB				
EMH	3/4"	--	--	--	EXTERIOR ENCASED WALL HYDRANT ANTI-SIPHON VACUUM BREAKER, POLISHED BRASS AUTOMATIC DRAINING, FREEZE RESISTANT, WALL CLAMP, STEM FOR 8" THICK WALL, PROVIDE 12" x 12" WALL OR CEILING ACCESS DOOR.	ZURN Z-1300 ECOCLOTROL WOODFORD B85P-BP JR SMITH 5509 OR EQUAL BY WATTS				
SA	3/4"	3/4"	--	--	SHOCK ABSORBER STAINLESS STEEL NESTED BELLOW TYPE, CASING & BELLOW SHALL BE TYPE 304 STAINLESS STEEL. PROVIDE ISOLATION BALL VALVE WITH ACCESS DOOR (IF REQUIRED) AT INLET. CONTRACTOR SHALL SIZE EACH UNIT FOR PROPER DISPLACEMENT FOR THE FIXTURES COUNT ON CW OR HW LINE AS REQUIRED AT LOCATION SHOWN.	ZURN Z-1700 SHOCKTROLS JR SMITH 5000 HYDROTROLS OR EQUAL BY WADE, PRECISION PRODUCTS OR WATTS				
CSV	AS SHOWN ON DWG	AS SHOWN ON DWG	--	--	CIRCUIT SETTING VALVE FLOW CONTROL VALVE, SIZE EQUAL TO PIPING SHOWN ON PLANS, VISIBLE SET GAUGE W MEMORY STOP, BALL VALVE STYLE METERING WITH MODIFIED VENTURI FLOW MEASUREMENT VIA DIFFERENTIAL PRESSURE PORT ACCESS, POSITIVE SHUT OFF ABILITY, LOW FLOW (<1GPM) CAPABILITY.	TACO ACCU-FLO SERIES				
BFP	AS SHOWN ON DWG	AS SHOWN ON DWG	--	--	REDUCED PRESSURE BACKFLOW PREVENTER ANSI/ASSE 1013, AND AWWA C506, BRONZE BODY WITH BRONZE INTERNAL PARTS AND STAINLESS STEEL SPRINGS, NON-THREADED VENT OUTLET, ASSEMBLED WITH TWO FULL PORTED BALL VALVES AND STRAINER.	WIKIN 975XL OR EQUAL BY FEBCO	PROVIDE WITH PROTECTIVE ENCLOSURE.			
FD-1	--	--	2"	3"	FLOOR DRAIN 6" ROUND ADJUSTABLE NICKEL BRONZE STRAINER, CAST IRON BODY, SEDIMENT BUCKET, ADJUSTABLE FLASHING COLLAR, 3/4" TRAP PRIMER ADAPTER	ZURN ZN-415-B-P JR SMITH 2005	SURE SEAL-TRAP SEAL BY PRO SEAL, RUBBER FLAPPER STYLE VAPOR BARRIER RUBBER SELF CLOSING ONE-WAY TRAP SEAL, IMPORTANT: CLEAR THIS FITTING OF ALL DEBRIS PRIOR TO PROJECT CLOSEOUT!			
FS-1	--	--	2"	3"	FLOOR SINK 12" x 12" x 6" DEEP CAST IRON BODY, SQUARE SLOTTED MEDIUM DUTY 1/2" GRATING, WHITE ACID RESISTING PORCELAIN ENAMEL INTERIOR AND TOP, ALUMINUM ANTI-SPLASH INTERIOR WITH BOTTOM DOME STRAINER, AND 3/4" TRAP PRIMER ADAPTER.	ZURN Z-1900-P-3 OR EQUAL BY JR SMITH, WADE OR WATTS	SURE SEAL-TRAP SEAL BY PRO SEAL, RUBBER FLAPPER STYLE VAPOR BARRIER RUBBER SELF CLOSING ONE-WAY TRAP SEAL, IMPORTANT: CLEAR THIS FITTING OF ALL DEBRIS PRIOR TO PROJECT CLOSEOUT!			
FCO	--	--	AS SHOWN	AS SHOWN	FLOOR CLEANOUT CAST IRON BODY WITH SQUARE ADJUSTABLE SCORIATED NICKEL BRONZE TOP, GASKET SEAL BRASS THREADED PLUG WITH RECESSED SOCKET.	ZURN ZN-1400-BP, OR EQUAL BY JR SMITH, WADE OR WATTS	OR EQUAL BY WADE			
WCO	--	--	AS SHOWN	AS SHOWN	WALL CLEANOUT NO-HUB CAST IRON CLEANOUT TEE WITH ROUND STAINLESS STEEL COVER AND CENTER SCREW, GASKETED SEAL IRON THREADED PLUG WITH RECESSED SOCKET	ZURN Z-1446-BP, OR EQUAL BY JR SMITH, WADE OR WATTS	OR EQUAL BY WADE			
ECO	--	--	AS SHOWN ON DWG	AS SHOWN ON DWG	EXTERIOR CLEANOUT CAST IRON CLEANOUT WITH ROUND ADJUSTABLE SCORIATED RECESSED CAST IRON TOP, GASKET SEAL, CAST IRON PLUG WITH RECESSED SOCKET. INSTALL IN MINIMUM OF 12" x 12" x 4" REINFORCED CONCRETE PAD WITH BEVELED EDGES.	ZURN Z-1400-HD OR EQUAL BY JR SMITH, WADE OR WATTS	OR EQUAL BY JR SMITH OR WADE			

NOTES:

1. MANUFACTURERS WITH MODEL NUMBERS ARE BASE ITEMS. OTHER MANUFACTURERS LISTED ARE EQUIVALENT MANUFACTURERS.
2. FOR MOUNTING HEIGHTS OF INDIVIDUAL WALL-MOUNTED FIXTURES, REFER TO ARCHITECTURAL ELEVATION DRAWINGS.
3. EACH UNDERSLAB OR CONCEALED P-TRAP SHALL BE A DEEP-SEAL TYPE.
4. PROVIDE EACH WALL MOUNTED PLUMBING FIXTURE, SUCH AS SINKS, LAVATORIES, ELECTRIC WATER COOLERS, DRINKING FOUNTAINS, ETC., WITH A FLOOR MOUNTED FIXTURE CARRIER WITH RECTANGULAR LEGS.
5. UNLESS SCHEDULED OTHERWISE, PROVIDE EACH LAVATORY, SINK, WATER COOLER, ETC. WITH A P-TRAP ASSEMBLY CONSISTING OF A CHROME-PLATED (C.P.) CAST BRASS TRAP WITH CLEANOUT PLUG, C.P. TUBING OUTLET (MIN. 1/2" GA.), AND C.P. CAST BRASS ESCUTCHEON WITH SETSCREW.
6. PROVIDE EACH FIXTURE WHICH REQUIRES COLD AND/OR HOT WATER (EXCEPT FLUSH VALVES) WITH A SUPPLY/STOP ASSEMBLY CONSISTING OF A C.P. BRASS STOP VALVE (MIN. 1/2") WITH LOOSE KEY HANDLE AND LOCK SHIELD, STAINLESS STEEL FLEXIBLE RISER, C.P. BRASS NIPPLE, AND C.P. CAST BRASS ESCUTCHEON WITH SETSCREW.
7. FOR EACH PUBLIC LAVATORY OR SINK WITH EXPOSED DRAIN AND BOTH COLD AND HOT SUPPLY COMPONENTS, PROVIDE A MANUFACTURED INSULATION KIT MADE FROM MOLDED CLOSED CELL VINYL THAT IS ANTI-MICROBIAL, FORM FITTING, AND SEAMLESS. EACH KIT SHALL COVER THE TAILPIECE, P-TRAP, WALL BEND, BOTH WATER SUPPLY STOPS, AND BOTH WATER RISERS. KITS SHALL BE EQUAL OR EQUIVALENT TO "PROWRAP" BY MCGUIRE OR LAV-GUARD BY TRUEBRO.

ELECTRIC WATER HEATER SCHEDULE						
SYMBOL	SERVES	STORAGE GALLONS	HEATING ELEMENTS QTY/KW	RECOVERY GAL/HOUR	TEMPERATURES INLET RISE	MANUFACTURER & MODEL
WH-1	RESTROOMS	30	2 / 24 KW (SEE NOTE 2)	197	60 50	A.O. SMITH DSE-30
WH-2	KITCHEN	30	2 / 24 KW (SEE NOTE 2)	197	60 50	A.O. SMITH DSE-30

NOTES:

1. MANUFACTURER IS A. O. SMITH. STATE AND RHEEM ARE CONSIDERED EQUIVALENT MANUFACTURERS.
2. KW RATINGS @ 208 VOLTS, 1-PHASE ELEMENTS ARE SEQUENTIALLY OPERATED BY THERMOSTAT.
3. EACH WATER HEATER SHALL HAVE LONG LIFE INCOLOY ELEMENTS, BRASS DRAIN VALVE, GLASS LINED TANK, THERMOSTAT, AND HIGH LIMIT.
4. EACH WATER HEATER SHALL HAVE TANK INSULATION WITH A MINIMUM R-VALUE OF 20 AND SHALL MEET THE REQUIREMENTS OF ICC ENERGY CONSERVATION CODE 2000, SECTION 504.2
5. PROVIDE AND INSTALL EXPANSION TANK. TANK CAPACITY SHALL BE 4.0 GALLON ASME RATED FOR 160 PSI, TANK SHALL BE AMTROL MODEL THERM-X-TROL ST-4 OR APPROVED EQUIVALENT.
6. WATER HEATER SHALL HAVE A COMMERCIAL WARRANTY OF 3 YEARS ON THE TANK AND 1 YEAR ON PARTS

NOTE:

1. PROVIDE THERMOSTATIC MIXING VALVES THAT LIMIT TEMPERED WATER AT PUBLIC LAVATORIES OR SINKS TO NOT MORE THAN 110 DEGREES.
2. PROVIDE TRAP PRIMERS OR DEEP SEAL TRAPS AT ALL FLOOR DRAINS OR FLOOR SINKS SUBJECT TO INFREQUENT USE.

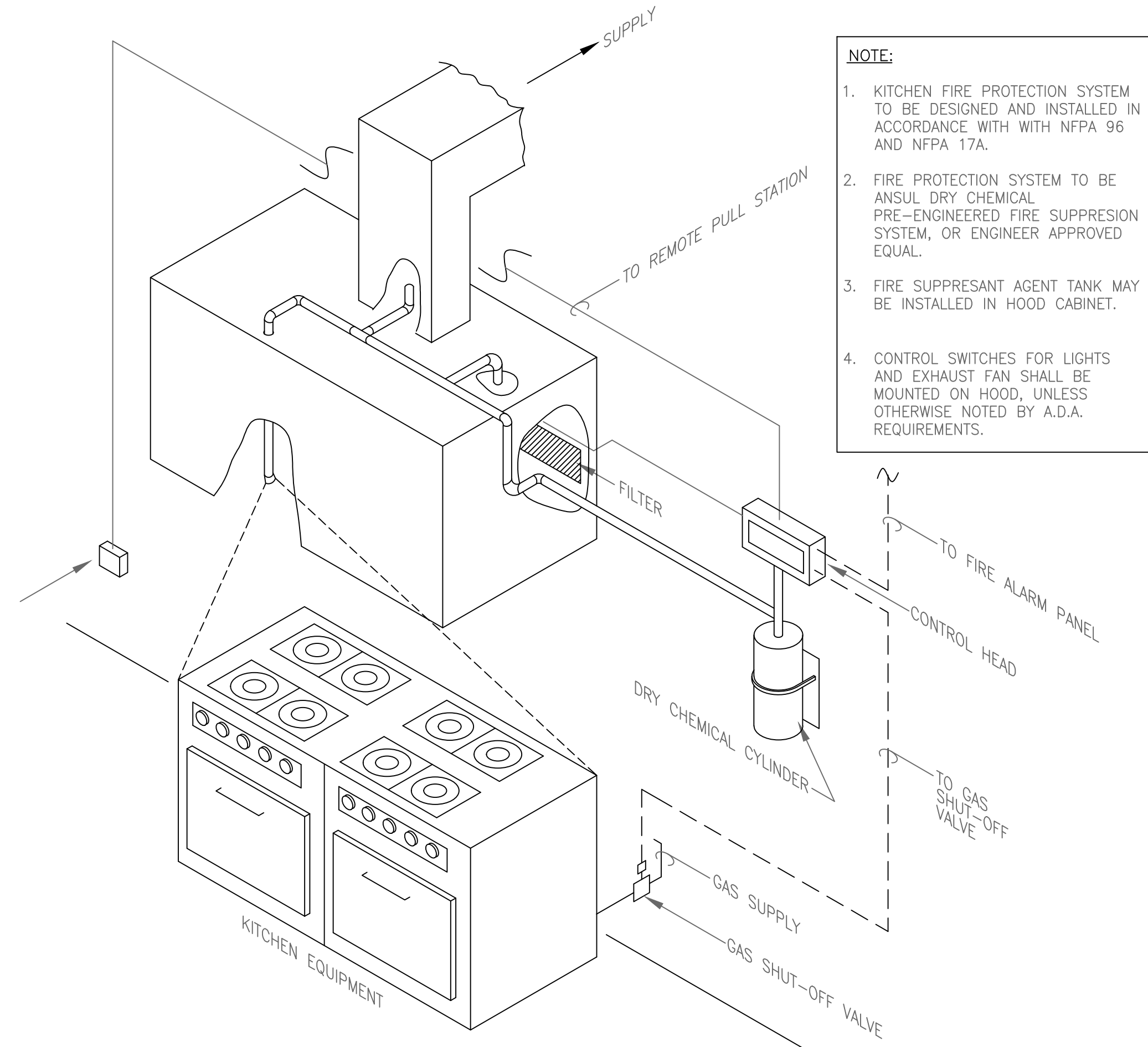
CIRCULATION PUMP SCHEDULE	
SYMBOL	CP-1
SERVES	DOMESTIC HOT WATER RETURN
MOUNTING	IN-LINE
CONNECTION SIZES (IN)	1"
FLOW (GPM)	3
TOTAL DEVELOPED HEAD (FT)	15
SPEED (RPM)	1750
TEMPERATURE SET POINT (F)	110
MOTOR HORSEPOWER	1/6
ELECTRICAL POWER	120V/1P
WEIGHT (LB)	35
MANUFACTURER / MODEL	TACO MODEL 113
MANUFACTURER / MODEL	B&G PR

NOTES:

1. PUMPS ARE SCHEDULED TO BE BY B&G OR TACO. PACO ARMSTRONG, AND AURORA SHALL BE CONSIDERED EQUIVALENT MANUFACTURERS.
2. REFER TO HOT WATER HEATER DETAIL FOR PIPING.
3. UNIT SHALL BE CONTROLLED FOR AN AQUASTAT. INSTALL UP STREAM OF THE PUMP. SET AT TEMPERATURE SHOWN. PUMP "ON" WHEN BELOW SETPOINT.
4. PROVIDE EACH PUMP WITH CHECK-OUT AND START-UP SERVICES FROM AN AUTHORIZED PUMP MANUFACTURER'S REPRESENTATIVE.

NOTE:

- 1- WH-1 SHALL HAVE MIXING VALVE 1/2" THE THERMOSTATIC MIXING VALVE 95 TO 115 F (ZW 1070XL IS ASSE 1070 LISTED)
- 2- AUTOMATIC GAS SHUT OF GAS VALVE REQUIRED AT ALL COOKING EQUIPMENT LOCATED BENEATH THE EXHAUST HOOD AND PROTECTED BY THE SUPPRESSION SYSTEM PER NFPA 96-20, 10.4.1

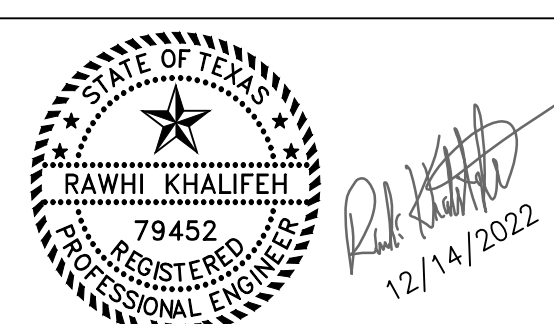


NOTE:

1. KITCHEN FIRE PROTECTION SYSTEM TO BE DESIGNED AND INSTALLED IN ACCORDANCE WITH NFPA 96 AND NFPA 17A.
2. FIRE PROTECTION SYSTEM TO BE ANSUL DRY CHEMICAL PRE-ENGINEERED FIRE SUPPRESSION SYSTEM, OR ENGINEER APPROVED EQUAL.
3. FIRE SUPPRESSANT AGENT TANK MAY BE INSTALLED IN HOOD CABINET.
4. CONTROL SWITCHES FOR LIGHTS AND EXHAUST FAN SHALL BE MOUNTED ON HOOD, UNLESS OTHERWISE NOTED BY A.D.A. REQUIREMENTS.

1 TYPICAL FIRE PROTECTION SYSTEM FOR KITCHEN EXHAUST HOOD DETAIL

SCALE: NONE



12/14/2022

ISSUE HISTORY		REVISIONS	
DATE	ISSUED FOR	DESCRIPTION	
5-16-22	ISSUE FOR PERMITTING	CONSTRUCTION DRAWINGS	
-	-	-	-
-	-	-	-
-	-	-	-

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PLUMBING SCHEDULES

DRAWN BY: BM DATE: 9-15-2021 SHEET: **P-601** Rev.0
CHECKED BY: RSK PROJ. NO.: VR151003.317.4

GRAPHIC SCALE

