

ARCHITECTURAL SPECIFICATIONS

GENERAL

ALL COLORS SHALL BE OWNER SELECTED UNLESS OTHERWISE NOTED.

APPLICABLE CODES:

- 2008 NEW MEXICO COMMERCIAL BUILDING CODE (2006 IBC W/ AMENDMENTS)
- 2008 NEW MEXICO MECHANICAL CODE
- 2005 NEW MEXICO ELECTRICAL CODE
- 2005 NEW MEXICO ELECTRICAL SAFETY CODE

JOINT SEALANT

- 2-PART POLYURETHANE: ASTM C920, GRADE NS, TYPE M, CLASS 25; SONOLASTIC NP-2, OR PECORA DYNATROL II. THIS SHALL BE THE GENERAL SEALANT FOR PROJECT, COLOR TO MATCH ADJACENT SURFACES.

- BACKER ROD – ROUND, CLOSED CELL POLYURETHANE FOAM ROAD, OVERSIZED 30 TO 50 PERCENT LARGER THAN JOINT WIDTH.

- BOND BREAKER & PRIMER – AS RECOMMENDED BY SEALANT MFR. FOR APPLICATION INTENDED.

DOORS & HARDWARE

- DOOR SHALL BE CECO MEDALLION SERIES, REINFORCED & INSULATED, G90 GALV. BOTH SIDES OF 18 GA. FACE SHEETS. BEVEL HINGE & LOCK EDGE SIDES; EDGE SEAM SHALL BE INTERLOCKED, FILLED & GROUND SMOOTH. SEAL INTERNAL SEAM W/ EPOXY.

- FRAMES SHALL BE CECO, 16 GA. G90 GALV., SET-UP & ARC WELDED W/CORNERS GROUND SMOOTH; REINFORCE FRAMES FOR HARDWARE.

- PRIMER FOR DOOR & FRAME – SHOP APPLIED, BAKED ON RUST INHIBITIVE PAINT, COMPATIBLE WITH GALV. SURFACES & FIELD APPLIED FINISH COATS. FIELD COAT INTERIOR SURFACES OF ALL FRAMES WITH A FIBERED ASPHALT EMULSION BITUMINOUS COATING. FRAMES SHALL BE MORTARED SOLID.

HARDWARE:

- A. EXIT DEVICE (ACTIVE LEAF) US26D, VON DUPRIN 9875LX984LX07 LEVER DESIGN.
- B. HINGES – US32D, STANLEY FBB 199, HAGER BB 1199 OR MCKINNEY NO. T4A3386. HINGES SHALL HAVE NON-REMOVABLE PINS; MORTISE DOORS & FRAME FOR 2 PAIR OF HINGES PER LEAF.
- C. WEATHERSTRIP – NATIONAL GUARD PRODUCTS 161VA HEAD & JAMBS WITH 36VA DOOR SHOE AT SILL.
- D. THRESHOLD – NATIONAL GUARD PRODUCTS, 8426, MILL FINISH.
- E. CLOSER – LCN 4111, RYOBI OR EQUAL CLOSER FOR PUSH SIDE MOUNTING, WITH COVER; FINISH TO MATCH HARDWARE.
- F. CYLINDER – MORTISED, BEST 1E-64 FOR 1-3/4" THICK DOORS; BRASS OR BRONZE BASE METAL W/ 626 FINISH. CORES SHALL BE MASTER KEYED TO OWNER'S SYSTEM, PROVIDE 4 KEYS PER CYLINDER, 4 MASTER KEYS & 4 GRAND MASTER KEYS.
- G. KICKPLATE – PROVIDE STAINLESS STEEL KICKPLATES 10" HIGH ON PUSH SIDE OF DOOR. FASTEN WITH STAINLESS STEEL SCREWS.

WALL LOUVER

WALL LOUVER SHALL BE 6" DEEP UNIT, AMERICAN WARMING LE-31, (ALUMITE K6776 OR RUSKIN LF63750X) ALUM. LOUVER, MILL FINISH, CLEAR ANODIZED. PROVIDE BIRD SCREEN MOUNTED TO INSIDE FACE OF LOUVER & PRE-FAB SILL FOR CMU WALL; SILL TO MATCH LOUVER FINISH.

FIRE EXTINGUISHER & SIGNAGE

DRY CHEMICAL TYPE, UL299, HEAVY DUTY STEEL CYLINDER W/ PRESSURE GAGE; RECHARGEABLE UNIT; TYPE 20-A-120-B-C; PAINTED FINISH, COLOR RED. PROVIDE STEEL MOUNTING BRACKET & ALUM. WALL SIGNAGE (WHITE GOTHIC LETTERS ON RED BACKGROUND), BRADY SIGNAGE NO. 43284, 14X10, ALUM. PROVIDE 1 EXTINGUISHER WALL MOUNTED ON BLDG. INTERIOR NEAR DOOR, WITH SIGNAGE ABOVE.

STANDING SEAM METAL ROOFING & SOFFIT

ROOFING SHALL BE FIRESTONE UC6RS OR EQUAL, WITH 16" RIB SPACING AND KYNAR 500 FINISH OR 24 GA. GALV. BASE METAL. COLOR SHALL BE OWNER SELECTED. UNDERLAYMENT SHALL BE 2 LAYERS OF 15 LB FELT BUILDING PAPER.

ROOFING SHALL BEAR FIRESTONE 20 YEAR WARRANTY.

SOFFIT SHALL FIRESTONE UC-750, FULLY VENTED, 0.32 ALUM. INTERLOCKING PANELS. PROVIDE DISMILAR METAL PROTECTION BETWEEN ALUM. PANELS & GALV. ROOF TRUSS FRAMING.

SEE ROOF PLAN FOR SKYLIGHT REQUIREMENTS.

CARPENTRY

ROUGH LUMBER SHALL BE ACO TREATED, CONSTRUCTION GRADE DOUGLAS FIR LARCH, NO. 1 SOUTHERN PINE OR BETTER, WELL SEASONED SOUND AND FREE OF FROM EXCESSIVE WARP.

ROOF SHEATHING SHALL BE 3/4" APA RATED STRUCTURAL SHEATHING (PLYWOOD) WITH SPAN RATING TO COMPLY WITH CODE AND APPROVED ROOF TRUSS DESIGN (SEE TRUSS SPECIFICATION.) FASTEN PLYWOOD PER BUILDING CODE REQUIREMENTS.

COLD FORMED, GALVANIZED STEEL ROOF TRUSSES:

ROOF TRUSS LAYOUT IS SHOWN SCHEMATICALLY. TRUSSES AND CONNECTION PLATES SHALL BE TRUSS MFR. SHALL DESIGN TRUSSES FOR SPAN SHOWN AND LOADING PER CODE. MFR. SHALL ALSO DESIGN ATTACHMENT TO WALL PLATES AND SPECIFY ANCHORAGE REQUIRED. ANCHORS SHALL BE HOT DIP GALVANIZED OR STAINLESS STEEL. TRUSS DESIGN SHALL BE SEALED BY A PROFESSIONAL STRUCTURAL ENGINEER REGISTERED IN THE STATE OF NEW MEXICO. TRUSSES SHALL SUPPORT EQUIP. SHOWN.

GRATING

- ALL GRATING SHALL BE REMOVABLE, PIECES SHALL NOT BE WIDER THAN 4'-0." GRATING INSIDE BLDG. SHALL BE STRONGWELL 1" FRP DURADEK OR EQUAL.
- PROVIDE GRATING SUPPORTS FOR DEFLECTION NOT TO EXCEED 1/4" FOR 100 PSF UNIFORM LOADING ON GRATING. GRATING SPANS FROM WALL TO TANK AS SHOWN.
- PROVIDE CUT-OUTS IN GRATING FOR PIPING, CONDUIT, ETC.

PAINTING:

PAINT SHALL BE AS PROVIDED BY TNEPEC, CARBOLINE OR APPROVED EQUIVLS. THE FOLLOWING PAINTING SYSTEM IS BASED ON TNEPEC PRODUCTS. DRY FILM THICKNESS (DFT) SHALL BE THE MINIMUM TOTAL THICKNESS OF DRY COATING LAYER.

1. INTERIOR & EXTERIOR FERROUS METALS:

- PRIMER – 1 COAT OF TNEPEC SERIES 66-1211 DFT 3.0
- INTERMEDIATE – 1 COAT OF TNEPEC SERIES 66-1211 DFT 4.0
- FINISH – 1 COAT OF TNEPEC SERIES 1075 DFT 2.0
- TOP COAT (EXTERIOR SURFACES ONLY) –1 COAT OF TNEPEC 76-763 CLEAR DFT 2.0

2. PIPING & EQUIP. LOCATED INDOORS & NOT SPECIFIED ELSEWHERE:

- PRIMER – 1 COAT OF TNEPEC SERIES 66 DFT 3.0
- FINISH – 2 COATS OF TNEPEC SERIES 66 DFT 8.0

3. NON-SUBMERGED MECH. EQUIP. COMPONENTS, UNLESS NOTED OTHERWISE:

- PRIMER – 1 COAT OF TNEPEC SERIES 66 DFT 3.0
- INTERMEDIATE – 2 COATS OF TNEPEC SERIES 66 DFT 8.0
- FINISH – 1 COAT OF TNEPEC SERIES 1075 DFT 2.0

4. SUBMERGED FERROUS MECH. EQUIP. COMPONENTS & PIPING, UNLESS NOTED OTHERWISE:

- FINISH – 2 COATS OF TNEPE-TAR 46-413 COAL TAR EPOXY, DFT 16-20

MASONRY, MORTAR AND GROUT:

- MORTAR SHALL BE TYPE PORTLAND CEMENT/LIME, TYPE "S", MORTAR, CONFORMING TO ASTM C270 OR BAGGED MASONRY CEMENTS, COLOR "GRAY." MIX IN ACCORDANCE WITH ASTM C270 IN QUANTITIES NEEDED FOR IMMEDIATE USE. DO NOT USE ANTI-FREEZE COMPOUNDS, IF WATER IS LOST BY EVAPORATION, RE-TEMPER ONLY WITHIN 2 HOURS OF MIXING. USE WITHIN MFR'S. TEMPERATURE LIMITATIONS.

- GROUT – GROUT FOR MASONRY SHALL BE 3000 PSI AT 28 DAYS, 8-10 SLUMP, MIXED IN ACCORDANCE WITH ASTM C476 FINE GROUT.

- CONCRETE MASONRY UNITS (CMU) – ASTM C90, HOLLOW LOAD BEARING CMU, MEDIUM WEIGHT.

- PROVIDE PREFABRICATED TEES & CORNER PIECES MATCHING TRUSS REINFORCEMENT.

• MASONRY ACCESSORIES:

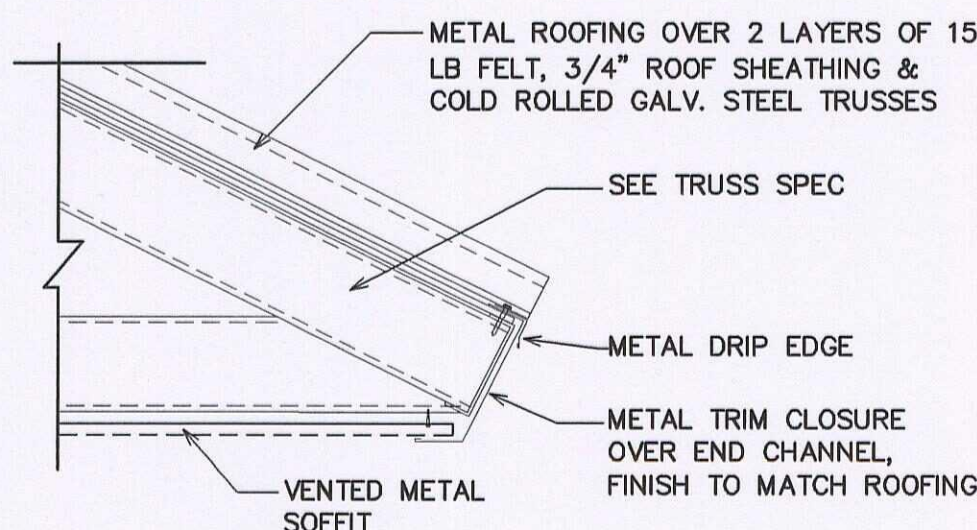
- CLEANING SOLUTION – PROSOCO OR DIEDRICH TECH AS RECOMMENDED FOR NEW MASONRY. CLEAN ALL SURFACES PRIOR TO PAINTING & SEALING.
- MASONRY FLASHING AT BOTTOM OF WALLS AND OVER WALL OPENINGS SHALL BE CMU PAN FLASHING SYSTEM "BLOK-FLASH" W/ INTEGRAL WEEP HOLES. AT WALL BASE, FLASHING SYSTEM SHALL BE INSTALLED CONT. OVER GROUTED BASE COURSE. INSTALL 2 TO 3 INCHES OF PEASTONE IN CORES ABOVE FLASHING SYSTEM PER MFR. INSTALLATION INSTRUCTIONS.

STEEL LADDER

PROVIDE GALV. STEEL LADDER W/3/4" SOLID STEEL RUNGS & 3/8"X 2 1/2" SIDE RAILS. PLUG WELD RUNGS TO SIDE RAILS. RUNG SPACING NOT TO EXCEED 12" O.C., WITH 4 RUNGS ABOVE LEVEL OF GRATING TO SERVE AS GRIPPING IRONS UP WALL. LADDER SHALL BE DESIGNED TO MEET OSHA LOADING REQUIREMENTS. GALVANIZE LADDER AFTER FABRICATION. FASTEN RAILS TO FLOOR W/ A STAINLESS STEEL ANGLE (L3X3X1/4) WELDED TO TANK BOTTOM & BOLTED TO EACH RAIL W/ GALV. BOLT, NUT & WASHER. PROVIDE SELF CLOSING SAFETY GATE AS SPECIFIED AT LADDER

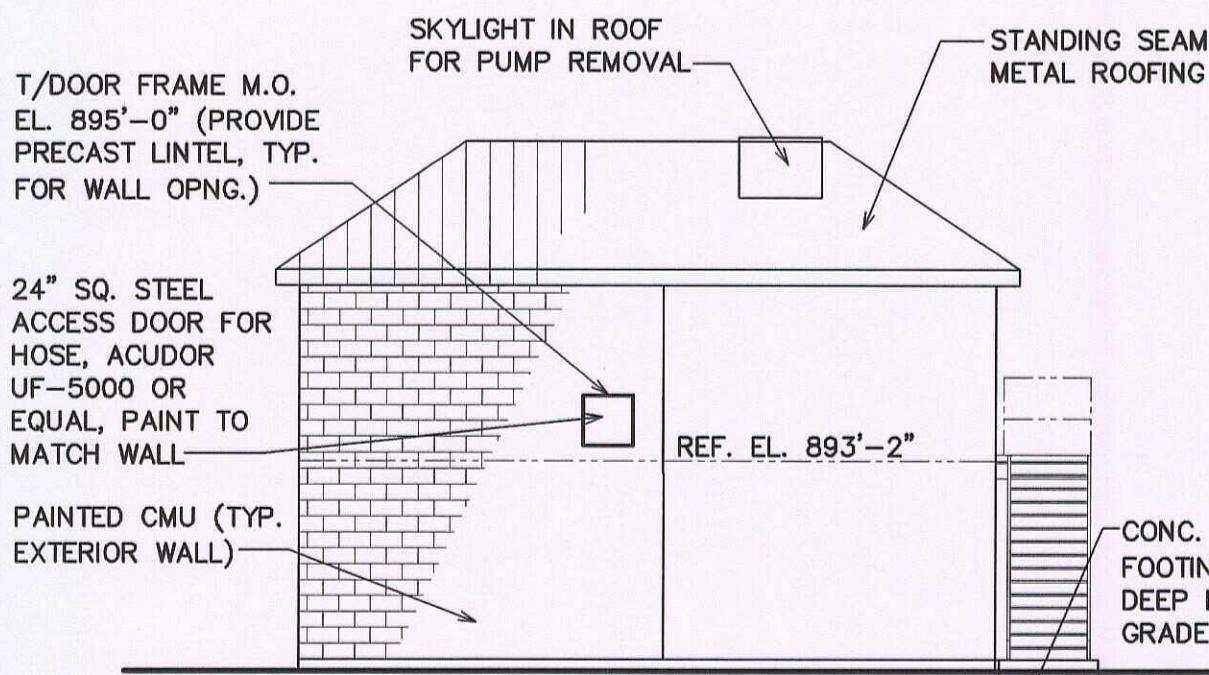
STAIR FABRICATION:

- STAIRS SHALL BE SELF-SUPPORTED, PRE-ENGINEERED WITH SHOP DRAWINGS PREPARED UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL STRUCTURAL ENGINEER REGISTERED IN THE STATE OF NEW MEXICO & SEALED FOR SUBMITTAL.
- FABRICATE STAIRS ASSEMBLY TO NAAMM – METAL STAIRS MANUAL, CLASS: INDUSTRIAL.
- ALL STEEL FRAMING, MISC. IRON ECT. SHALL BE G-90 HOT DIPPED GALV. & DOES NOT REQUIRE PAINTING.
- TREADS & LANDINGS SHALL BE GALV. GRATING WITH ABRASIVE NOSINGS; OPEN RISERS.
- RAILINGS SHALL BE GALV. STEEL PIPE RAILING. PROVIDE GUARDRAIL WITH HANDRAIL ATTACHED AS REQUIRED TO MEET BUILDING CODE REQUIREMENTS.
- FABRICATE STAIR ASSEMBLY TO SUPPORT A UNIFORM LIVE LOAD OF 100 LBS/SF & A CONCENTRATED LOAD OF 300 LBS WITH DEFLECTION OF STRINGER OR LANDING FRAMING NOT TO EXCEED 1/180 OF SPAN.
- IT IS INTENDED THAT THE STAIRS BE DESIGNED TO BE SELF SUPPORTING. DO NOT BRACE STAIR OFF BUILDING. INDICATE ALL FRAMING, CONNECTIONS, SUPPORTS, ANCHOR BOLTS, ATTACHMENTS, ETC. ON THE SHOP DRAWINGS.
- VERIFY GRADES & GRATING ELEV. INSIDE BLDG. W/ APPROVED EQUIPMENT SUPPLIER SHOP DRAWINGS. STAIR LANDING SHALL BE AT SAME ELEV. AS INTERIOR TANK GRATING. STAIR RISERS SHALL NOT EXCEED 7 INCHES PER CODE.



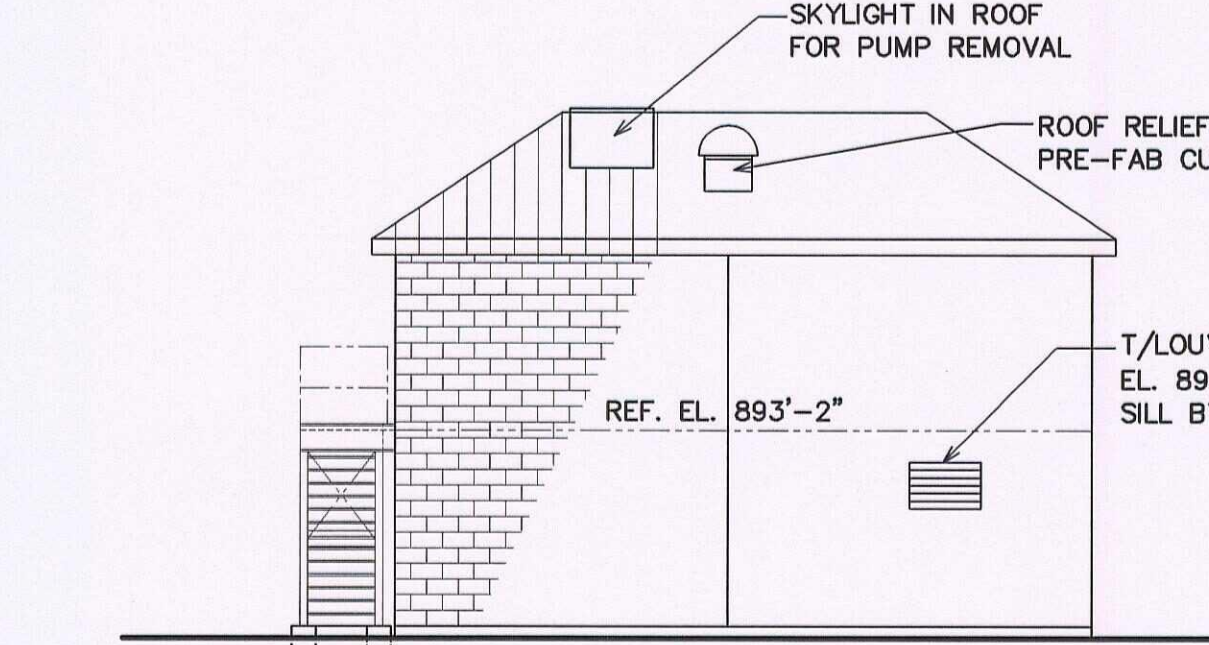
EAVE EDGE DETAIL

SCALE: 3" = 1'-0"



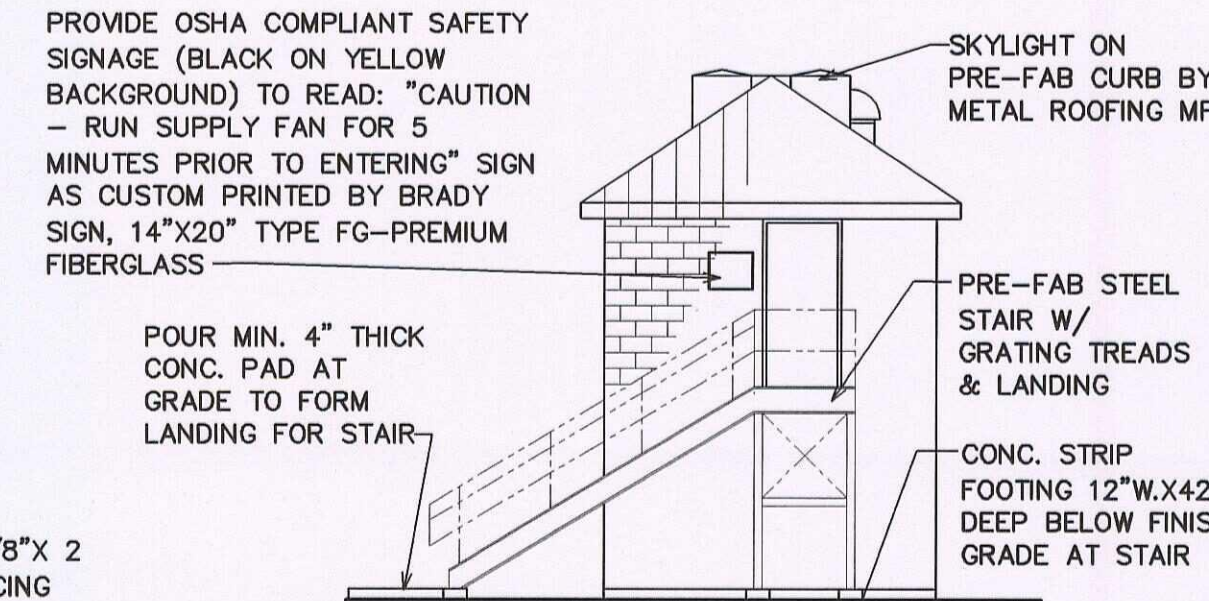
WEST ELEVATION

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



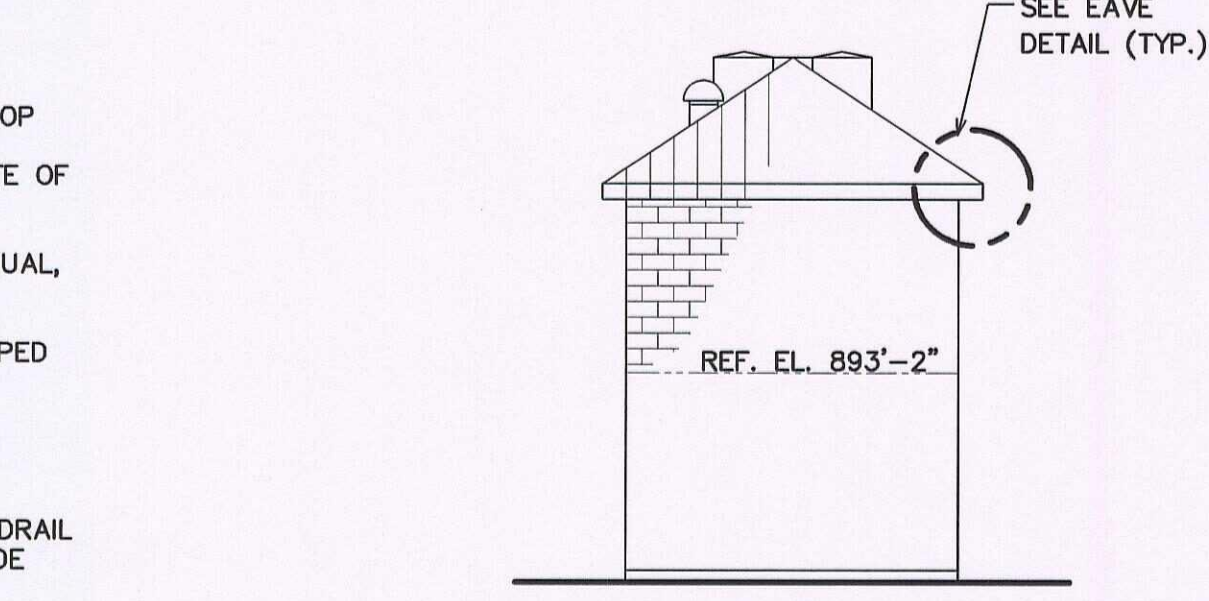
EAST ELEVATION

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



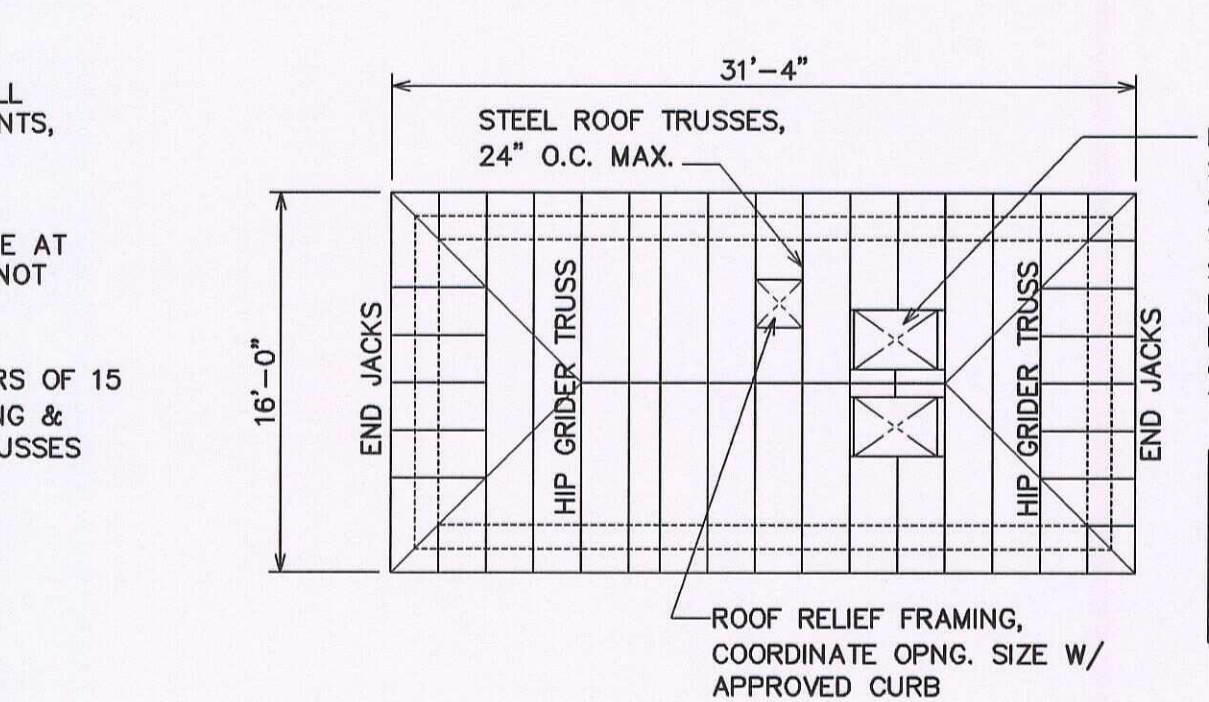
SOUTH ELEVATION

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



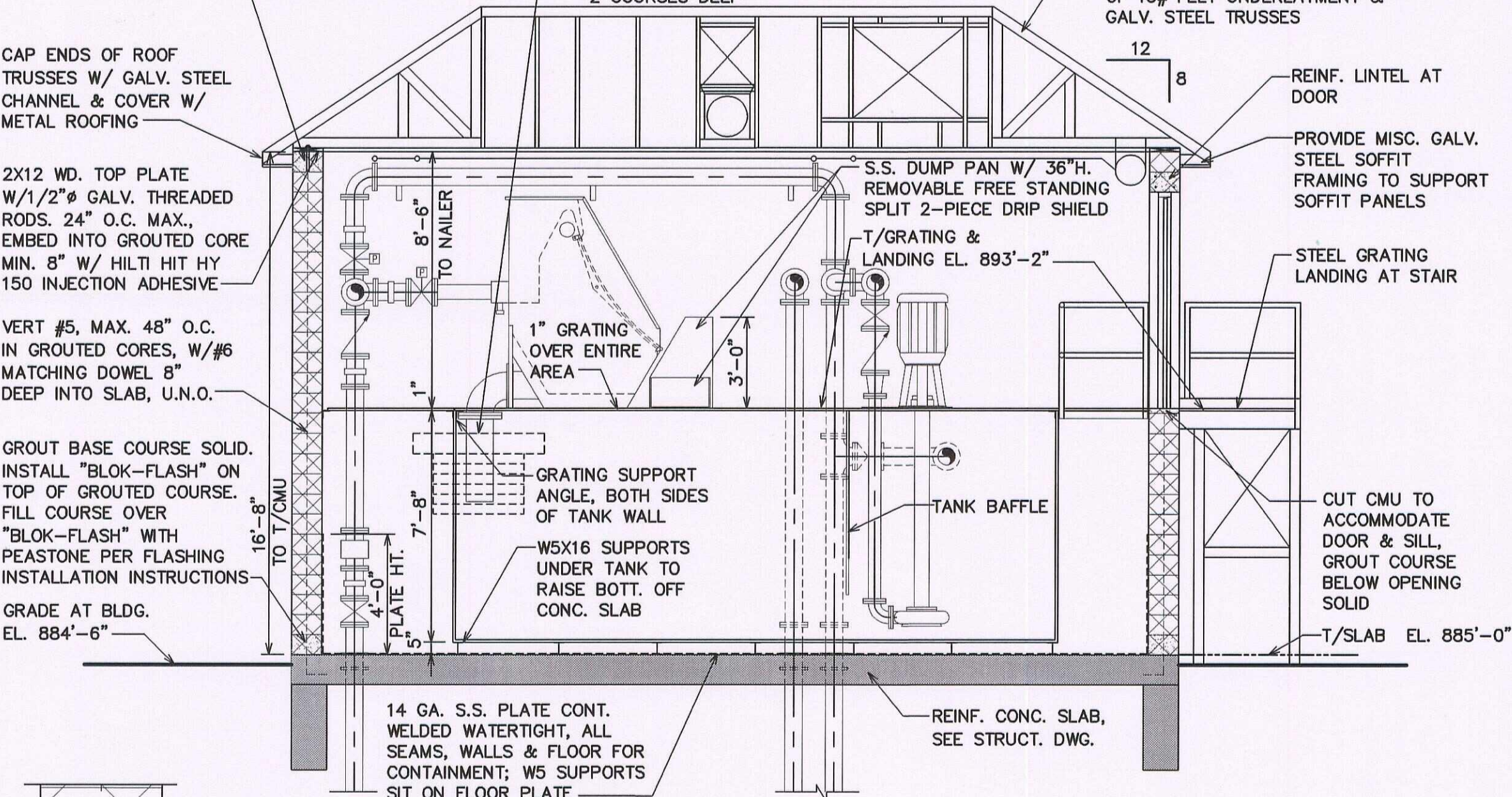
NORTH ELEVATION

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



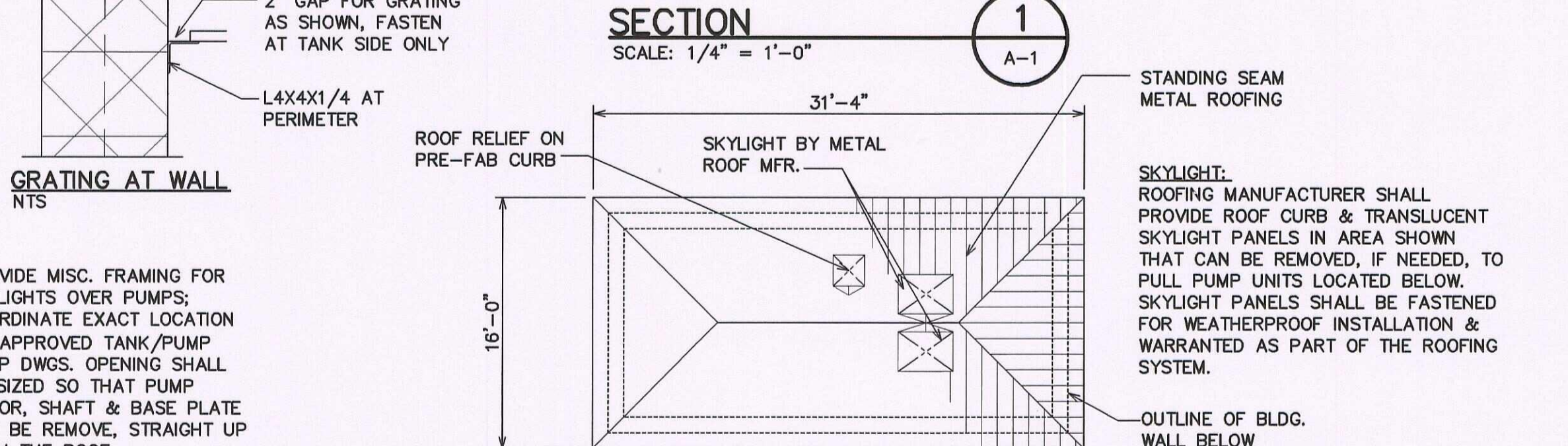
ROOF FRAMING PLAN

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



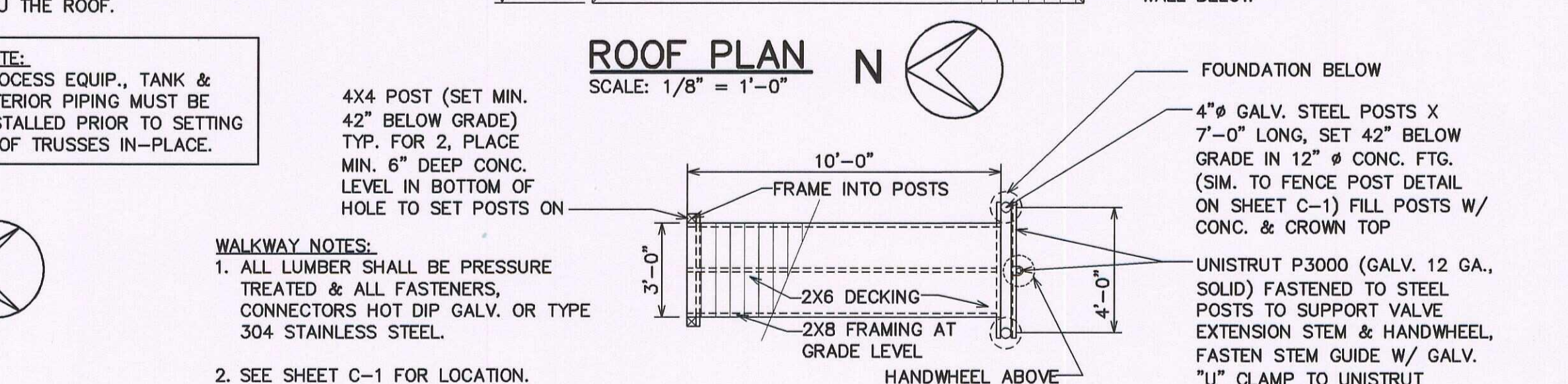
SECTION 1

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



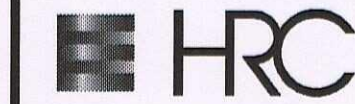
ROOF PLAN

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



CONTAINMENT BERM WOOD WALKWAY

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



HUBBELL, ROTH & CLARK, INC.
Consulting Engineers

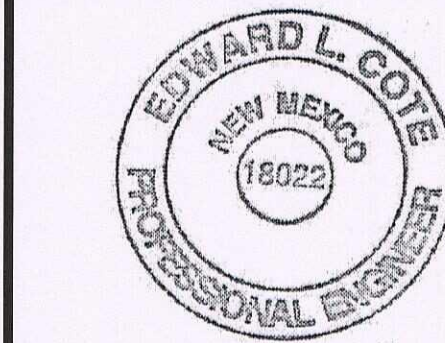
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Maps

6-18-08	NWOOD SUBMITTAL
5-28-08	OWNER REVIEW
4-10-08	OWNER REVIEW
1-11-08	OWNER REVIEW
DATE	ADDITIONS AND/OR REVISIONS
DESIGNED	J.M.G.
DRAWN	J.M.G.
CHECKED	L.R.A.
APPROVED	P.T.R.



WESTERN REFINING - GALLUP

SANITARY
WASTEWATER
LIFT STATION

JAMESTOWN NEW MEXICO 87347

LIFT STATION
PLAN, ELEVATION & DETAILS

HRC JOB NO. 20070465	SCALE AS NOTED
DATE JANUARY 2008	SHEET NO. A-1