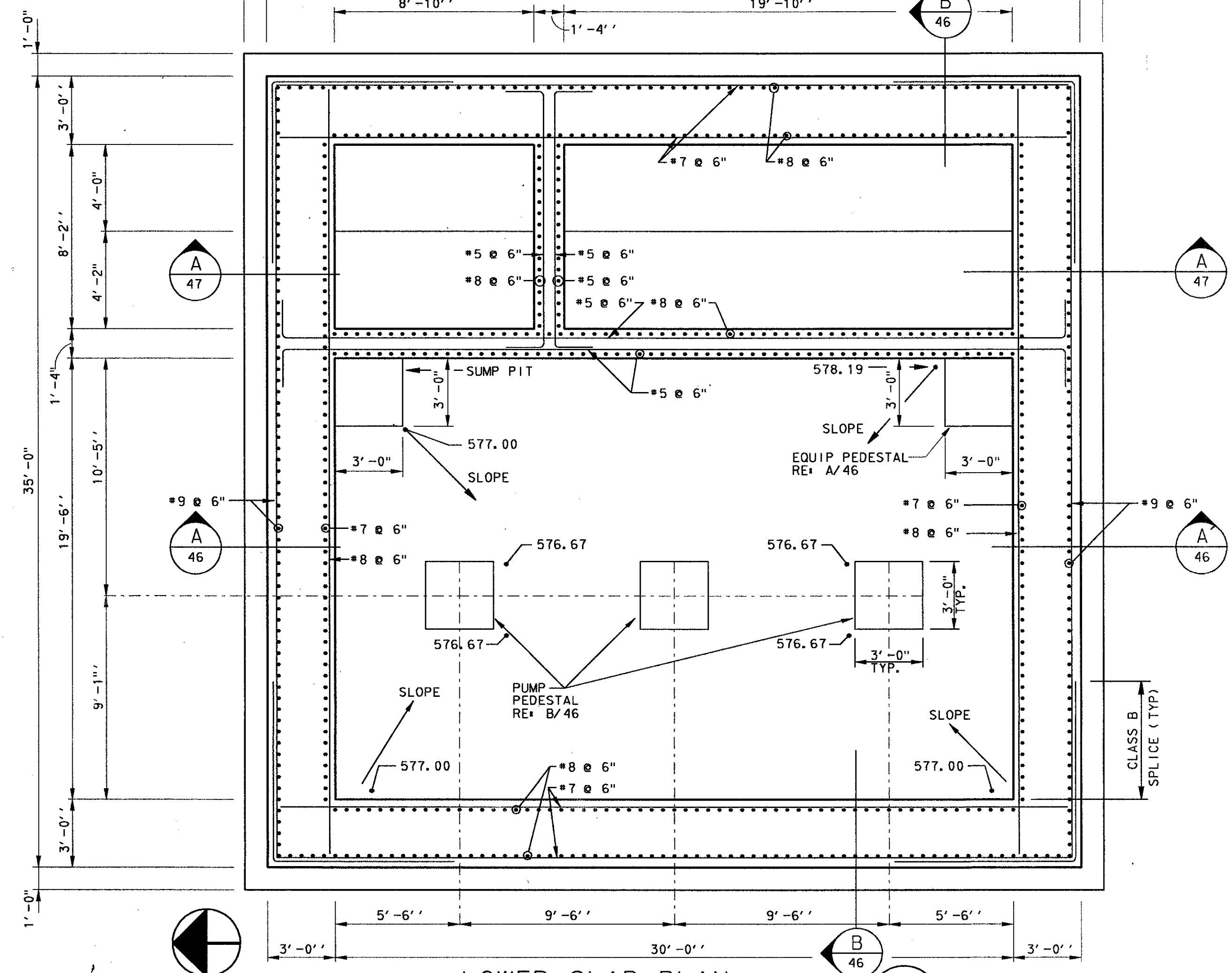


UPPER SLAB PLAN  
1/4" = 1' - 0"



LOWER SLAB PLAN  
1/4" = 1' - 0"

**GENERAL STRUCTURAL NOTES**

- BUILDING CODES AND DESIGN CODES:  
A. UNIFORM BUILDING CODE, LATEST EDITION  
B. AMERICAN CONCRETE INSTITUTE, ACI 318 BUILDING CODE, 1989  
C. ACI 359 COMMITTEE REPORT ON "CONCRETE SANITARY ENGINEERING STRUCTURES"  
D. AMERICAN INSTITUTE OF STEEL CONSTRUCTION, AISC MANUAL OF STEEL CONSTRUCTION, ALLOWABLE STRESS DESIGN (ASD), NINTH EDITION
- THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE AND SAFETY OF WORKMEN DURING CONSTRUCTION. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF OSHA AND OTHER GOVERNING BODIES HAVING JURISDICTION AT THE SITE.
- LOCATE, PROTECT AND COORDINATE NECESSARY DISCONTINUOUS SERVICE OF POWER AND OTHER POTENTIALLY HAZARDOUS UTILITIES WITH THE OWNER PRIOR TO BEGINNING WORK.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO BEGINNING WORK OR FABRICATING MATERIALS. NOTIFY OWNER OF ANY INCONSISTENCIES WITH THESE DRAWINGS.
- COORDINATE WITH THE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS AND VERIFY THE LOCATION OF ALL CHASES, INSERTS, OPENINGS, SLEEVES, FINISHES, DEPRESSIONS, PADS, WALL OPENINGS, AND OTHER PROJECT REQUIREMENTS.
- DESIGN LOADS:  
ROOF LIVE LOAD: 20 PSF  
GROUND LEVEL FLOOR LIVE LOAD: 250 PSF UNIFORM  
BOTTOM MAT: HS20-44 250 PSF
- STEEL JOIST DESIGN LOADS:  
DEAD LOAD: 100 PLF  
LIVE LOAD: 120 PLF  
POINT LOAD (ANY LOCATION): 2000 LBS.  
NET UPLIFT: 15 PSF
- WIND LOADS:  
WIND VELOCITY: 70 MPH, EXPOSURE C, I=1.0

**FOUNDATION NOTES**

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXCAVATION SLOPE STABILITY. THE SELECTION OF THE EQUIPMENT AND THE METHOD OF SLOPE STABILITY SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO INSURE ADJACENT FOUNDATIONS ARE NOT UNDERMINED DURING EXCAVATION AND CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXCAVATION DEWATERING. THE SELECTION OF THE EQUIPMENT AND THE METHOD OF DEWATERING SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- FOOTING EXCAVATIONS WHICH WILL REMAIN OPEN FOR MORE THAN TWENTY FOUR (24) HOURS SHALL BE PROTECTED BY A SEAL SLAB OF FOOTING STRENGTH CONCRETE.
- SOILS INFORMATION IS BASED ON INFORMATION CONTAINED IN "GEOLOGICAL REPORT FOR PROPOSED LIFT STATION, MIDWAY/BELTLINE SANITARY SEWER, ADDISON, TEXAS" DATED JUNE 30, 1995, BY HUNTINGTON/SWL, REPORT NO. 95-189-2. THE INFORMATION IS AVAILABLE UPON REQUEST.
- THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH ALL SITE AND SUBGRADE INFORMATION.
- MAT FOUNDATION DESIGN IS BASED ON BEARING IN GRAY LIMESTONE WITH AN ALLOWABLE BEARING CAPACITY OF 30,000 PSF.
- THE OWNER'S TESTING AGENCY SHALL OBSERVE FOUNDATION PLACEMENT TO VERIFY WORK IS BEING DONE IN ACCORDANCE WITH THESE DRAWINGS.

**CONCRETE NOTES**

- ALL CAST-IN-PLACE CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF THE FOLLOWING:  
SLABS, FOOTINGS AND BEAMS: 4000 PSI  
FILL FOR MASONRY CORES AND BOND BEAMS: 3000 PSI
- PROVIDE THE SURFACE FINISH INDICATED FOR THE FOLLOWING AREAS:  
SLABS: TROWEL FINISH  
EXPOSED FORMED CONCRETE: SMOOTH RUBBED FINISH  
EXTERIOR RAMP: BROOM FINISH
- REINFORCING SHALL BE NEW BILLET STEEL CONFORMING TO THE STANDARDS OF ASTM A615, GRADE 60. WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185. PROVIDE FLAT SHEETS ONLY.
- ALL ANCHOR BOLTS SHALL CONFORM TO THE STANDARDS OF ASTM A307 AND SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153.
- ALL DETAILING, FABRICATION, AND INSTALLATION OF REINFORCING SHALL BE IN ACCORDANCE WITH ACI 301, 315R, 318 AND DETAILING MANUAL SP66.
- CONSTRUCTION AND SAW JOINTS SHALL CONFORM TO PLANS AND DETAILS. HORIZONTAL CONSTRUCTION JOINTS WILL NOT BE ALLOWED UNLESS SPECIFICALLY NOTED OR APPROVED.
- APPROVED DOWEL ASSEMBLY DEVICES SHALL BE USED TO SUPPORT DOWELS AT ALL SLAB CONSTRUCTION JOINTS.
- MAINTAIN THE FOLLOWING COVERAGE FOR REINFORCING STEEL UNLESS OTHERWISE NOTED:  
CONCRETE CAST AGAINST EARTH: 3"  
CONCRETE EXPOSED TO WEATHER OR EARTH: 2"
- CONCRETE NOT EXPOSED TO WEATHER:  
SLABS: 3/4"  
WALLS, BEAM STIRRUPS & PEDESTAL TIES: 1 1/2"
- ALL LAP SPLICES SHALL BE CLASS B, AND ALL HOOKS SHALL BE STANDARD 90 DEGREE HOOKS IN ACCORDANCE WITH ACI 318-89, UNLESS NOTED OTHERWISE. SPLICES SHALL BE STAGGERED UNLESS SPECIFICALLY NOTED.
- ALL EXPOSED EDGES SHALL BE CHAMFERED 3/4" UNLESS NOTED OTHERWISE.
- NO REINFORCEMENT SHALL BE WELDED OR BENT IN THE FIELD UNLESS SPECIFICALLY SHOWN.
- WHERE REQUIRED, DOWELS SHALL MATCH SIZE AND SPACING OF MAIN REINFORCING, UNLESS NOTED OTHERWISE.
- CONSTRUCTION JOINTS SHALL BE WIRE BRUSHED AND CLEANED IMMEDIATELY PRIOR TO PLACING NEW CONCRETE.
- CAREFULLY COORDINATE THE PLACEMENT OF ALL CAST-IN-PLACE EMBEDMENTS AND ANCHOR BOLTS. ANCHOR BOLTS SHALL BE SET WITH A TEMPLATE. ALL EMBEDDED ITEMS SHALL BE SECURELY ATTACHED TO FORMWORK OR REINFORCING.
- REFERENCE PLUMBING PLANS FOR ALL SUBSLAB PIPING, FLOOR DRAINS, AND SLAB PIPE PENETRATIONS.
- REFERENCE SPECIFICATIONS FOR CONCRETE TESTING REQUIREMENTS.

**MASONRY NOTES**

- ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE APPLICABLE STANDARDS AND SPECIFICATIONS OF THE NATIONAL CONCRETE MASONRY ASSOCIATION AND THE STRUCTURAL CLAY PRODUCTS INSTITUTE.
- HOLLOW LOAD BEARING CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90, GRADE N, TYPE I, LIGHT WEIGHT WITH A MINIMUM COMPRESSIVE STRENGTH (f<sub>m</sub>) OF 1900 PSI ON THE NET SECTION.
- ALL MORTAR SHALL CONFORM TO ASTM C270, TYPE S. MINIMUM MASONRY STRENGTH (f<sub>m</sub>) SHALL BE 1500 PSI.
- ALL GROUT SHALL CONFORM TO ASTM C476 AND HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3000 PSI.
- REINFORCING BARS FOR REINFORCED MASONRY SHALL CONFORM TO ASTM A615, GRADE 60.
- VERTICAL CELLS TO BE FILLED WITH GROUT SHALL BE ALIGNED TO PROVIDE A CONTINUOUS, UNOBSTRUCTED OPENING OF THE DIMENSIONS SHOWN ON THE PLANS.
- GROUT FOR FILLING REINFORCED OR NON-REINFORCED CELLS SHALL BE CONSOLIDATED IN PLACE BY VIBRATION OR OTHER METHODS WHICH ENSURE COMPLETE FILLING OF THE CELLS.
- HOLLOW UNITS SHOULD BE LAID WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS EXCEPT THAT WEBS SHOULD ALSO BE BEDDED WHERE THEY ARE ADJACENT TO CELLS TO BE REINFORCED AND/OR FILLED WITH GROUT.
- ALL CUTTING AND FITTING OF MASONRY, INCLUDING THAT REQUIRED TO ACCOMMODATE THE WORK OF OTHER TRADES, SHALL BE DONE BY MASONRY MECHANICS WITH MASONRY SAWS.
- ANCHORS, WALL PLUGS, ACCESSORIES AND OTHER ITEMS TO BE BUILT IN SHALL BE INSTALLED AS THE MASONRY WORK PROGRESSES.
- ALL WALLS SHALL HAVE HORIZONTAL JOINT REINF. AT 16" CONSISTING OF TWO 3/8" DIA. RODS WITH 9 GA. CROSS TIES AT 16".
- THE OWNER'S TESTING AGENCY SHALL OBSERVE INSTALLATION OF MASONRY TO VERIFY WORK IS BEING DONE IN ACCORDANCE WITH THESE DRAWINGS.

**STRUCTURAL STEEL NOTES**

- ALL DETAILING, FABRICATION AND ERECTION SHALL CONFORM TO AISC SPECIFICATIONS AND CODES, ASD NINTH EDITION.
- ALL STRUCTURAL STEEL SHALL BE OF THE FOLLOWING ASTM DESIGNATIONS UNLESS NOTED OTHERWISE AND SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A123.  
A. ANGLES AND PLATES: A36

**STEEL JOIST NOTES**

- STEEL JOISTS SHALL BE DESIGNED BY THE MANUFACTURER IN ACCORDANCE WITH THE SPECIFICATIONS OF THE STEEL JOIST INSTITUTE (SJI), LATEST EDITION, SUPPLEMENTED BY THE INFORMATION INDICATED ON THE STRUCTURAL DRAWINGS.
- JOIST DEPTH SHOWN ON THE STRUCTURAL DRAWINGS ARE DEPTHS AT MID SPAN.
- ALL STEEL JOISTS SHALL BE OPEN WEB UNDERSLUNG, TOP CHORD DOUBLE SLOPED.
- JOISTS SHALL BEAR 2 1/2" MINIMUM ON STRUCTURAL STEEL.
- ALL STEEL JOISTS SHALL HAVE WELDED CONNECTIONS UNLESS OTHERWISE NOTED. WELDS SHALL BE 3/8" x 2" LONG MINIMUM FILLETS EACH SIDE OF JOIST SEAT AND AS INDICATED ON DRAWINGS.
- STEEL JOIST FABRICATOR SHALL PROVIDE ALL ANGLE BRIDGING. BRIDGING SHALL BE COMPLETELY INSTALLED AND ANCHORED AND ALL JOISTS PERMANENTLY FASTENED INTO PLACE BEFORE CONSTRUCTION LOADS ARE PLACED ON THE JOISTS.
- ALL JOISTS SHALL HAVE 2 1/2" DEEP SEATS, UNLESS NOTED OTHERWISE.
- DESIGN AND FABRICATE STEEL JOIST WITH CAMBER IN ACCORDANCE WITH SJI.
- REMOVE LOOSE SCALE, RUST AND OTHER FOREIGN MATERIALS FROM FABRICATED JOISTS AND ACCESSORIES AND APPLY ONE COAT MANUFACTURER'S STANDARD GRAY PRIMER IN SHOP.
- SUBMIT SHOP DRAWINGS INCLUDING PIECE AND ERECTION DRAWINGS.

**METAL DECK NOTES**

- DESIGN, FABRICATION, AND ERECTION OF METAL DECK SHALL CONFORM TO THE STEEL DECK INSTITUTE'S "CODE OF RECOMMENDED STANDARD PRACTICE AND BASIC DESIGN SPECIFICATIONS," LATEST EDITION.
- STEEL ROOF DECK SHALL BE 1 1/2" 22 GAGE WIDE RIB, GALVANIZED.
- INFILL DECK SHALL BE FASTENED OVER SUPPORTS AND AT BUILDING PERIMETER WITH #12 TEK SCREWS IN A 36/7 PATTERN 6" O.C. SIDELAPS SHALL BE FASTENED WITH #10 TEK SCREWS AT 1'-0" ON CENTER.
- WELDING OF DECK IS NOT PERMITTED.
- SUBMIT SHOP DRAWINGS INDICATING TYPE, FINISH, OPENINGS, ACCESSORIES AND ATTACHMENT.
- REMOVE LOOSE SCALE, RUST AND OTHER FOREIGN MATERIALS FROM DECK AND APPLY EPOXY PAINT PER MANUFACTURER'S SPECIFICATIONS.

4			
3			
2			
1			
NO.	DATE	REVISION	APPROV.

**TOWN OF ADDISON, TEXAS**

**MIDWAY/BELTLINE SANITARY SEWER  
PHASE II**

**LIFT STATION  
STRUCTURAL PLANS AND GENERAL NOTES**

**Carter Burgess**  
Consultants in Engineering, Architecture,  
Planning and the Environment  
CARTER & BURGESS, INC.  
7950 EMBROOK DRIVE, SUITE 250  
DALLAS, TX 75247-4961

Unit	Scale	Date	04-05-96
Designed	K. Houghton	Checked	K. Houghton
Drawn	C. Sammons	Approved	J. Lindner
Job No.	93327601D	Sheet	45 of 63