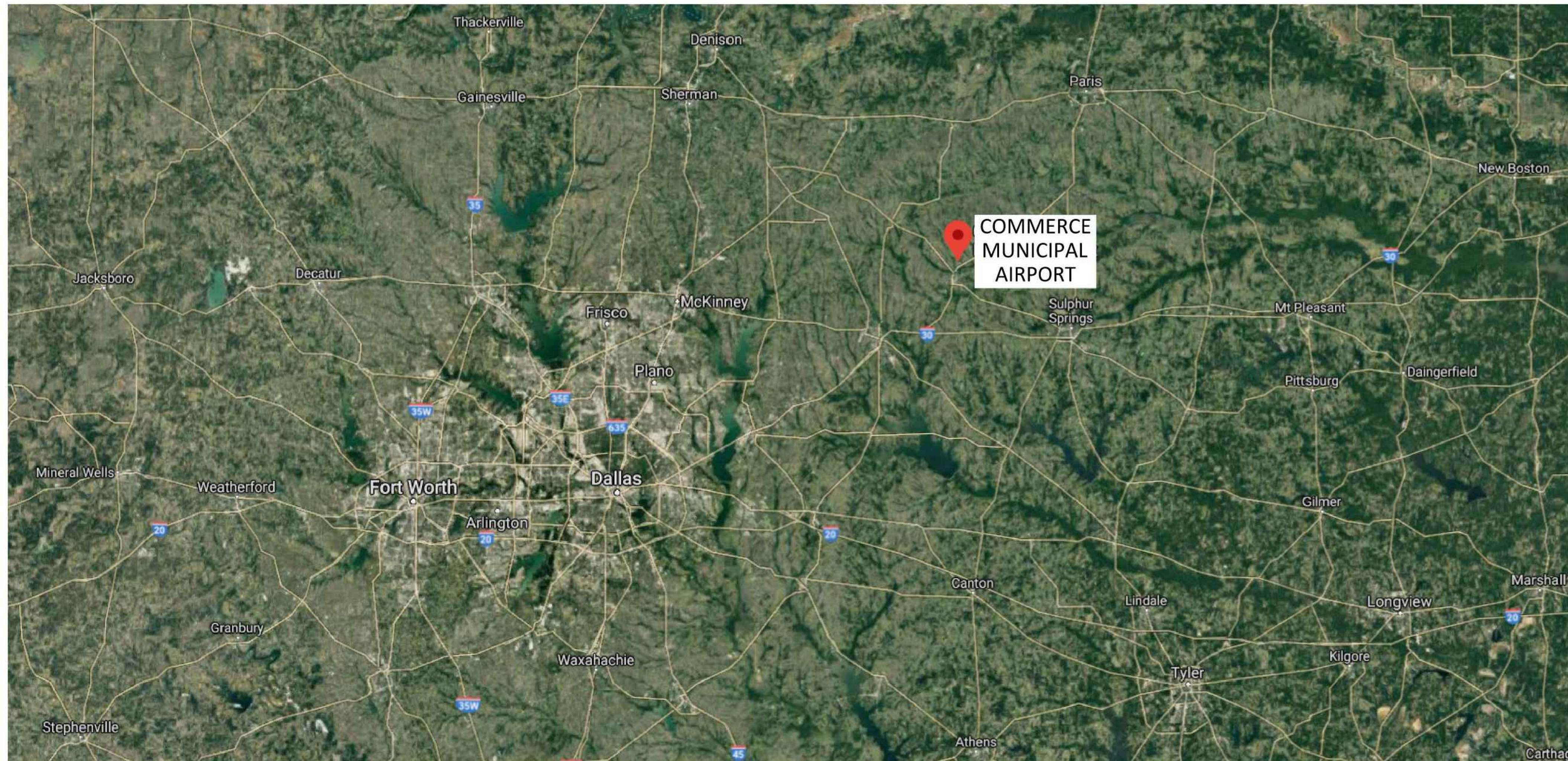


COMMERCE MUNICIPAL AIRPORT

FUEL SYSTEM RENOVATION

1755 SH 50,
Commerce, Texas 75428

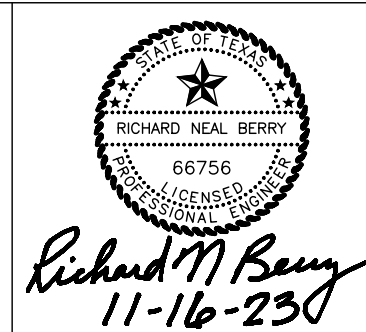


SCHEDULE OF DRAWINGS

DISCIPLINE	SHEET DESCRIPTION
COVER	VICINITY MAP-SHEET INDEX
S-1	EXISTING SITE LAYOUT
F-1	PROPOSED SITE LAYOUT
F-2	AVGAS AST DETAILS
F-3	DETAILS
F-4	CONCRETE LAYOUT DETAILS
F-5	CONCRETE SECTION DETAILS
F-6	CONCRETE BEAM DETAILS
F-7	GENERAL NOTES & SPECIFICATIONS

CP

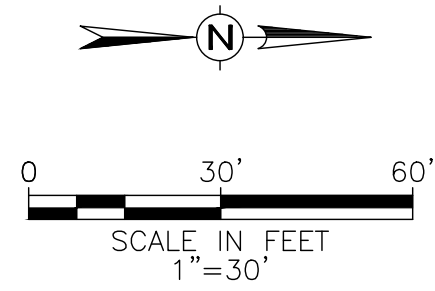
DESIGNED BY	CDS		
DRAWN BY	PB		
CHECKED BY	RNB		
REVIEWED BY	RNB		
DATE	11-16-2023		
NO	DATE	REVISION	BY



GENERAL NOTES & SPECIFICATIONS

COMMERCE MUNICIPAL AIRPORT
FUEL SYSTEM RENOVATION
1755 SH 50, Commerce, Texas 75428

SHEET NO. 1
OF 9 SHEETS
FILE NO. 120192

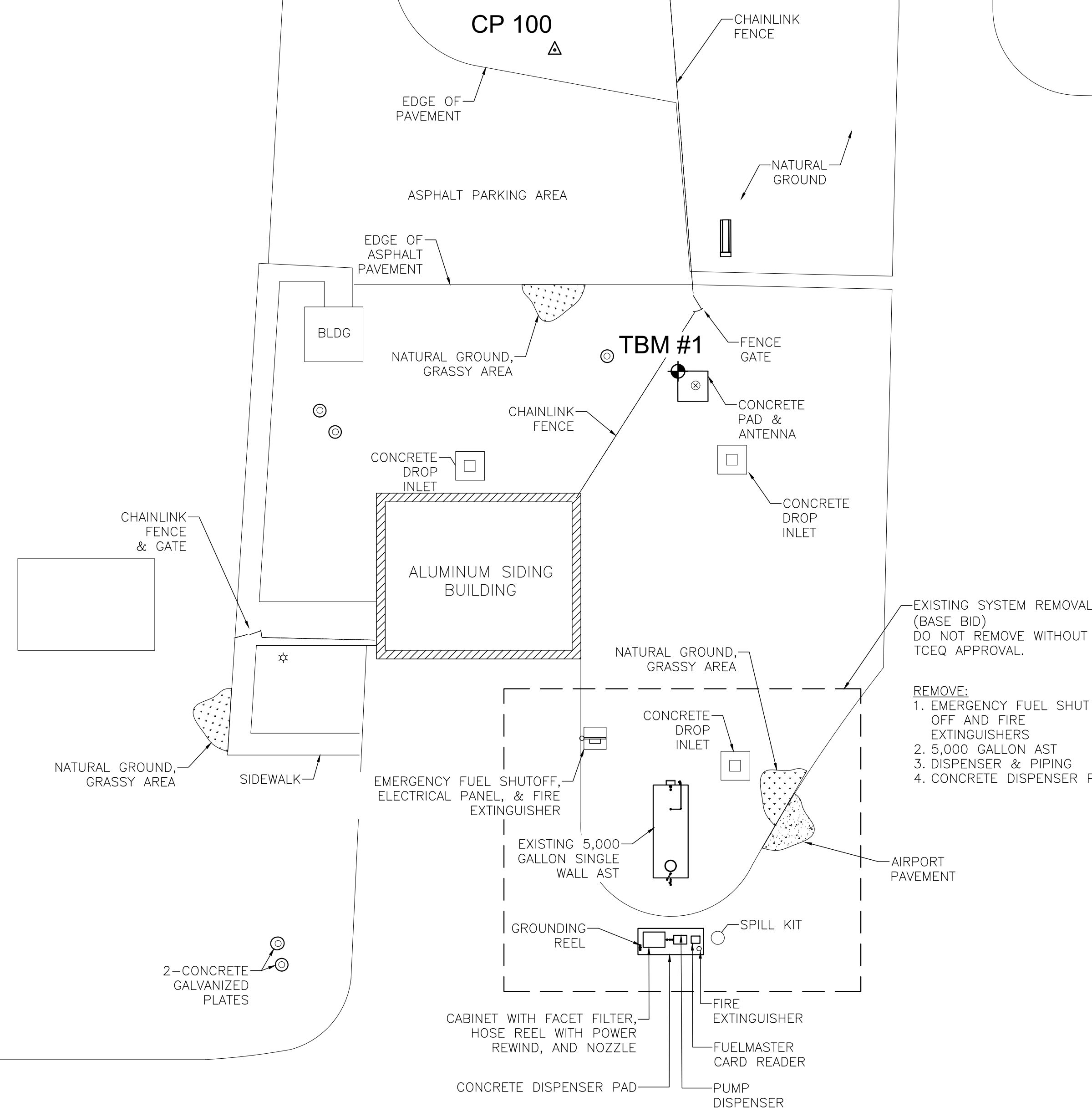


AERIAL VIEW OF EXISTING SITE
N.T.S.

CP 101
△

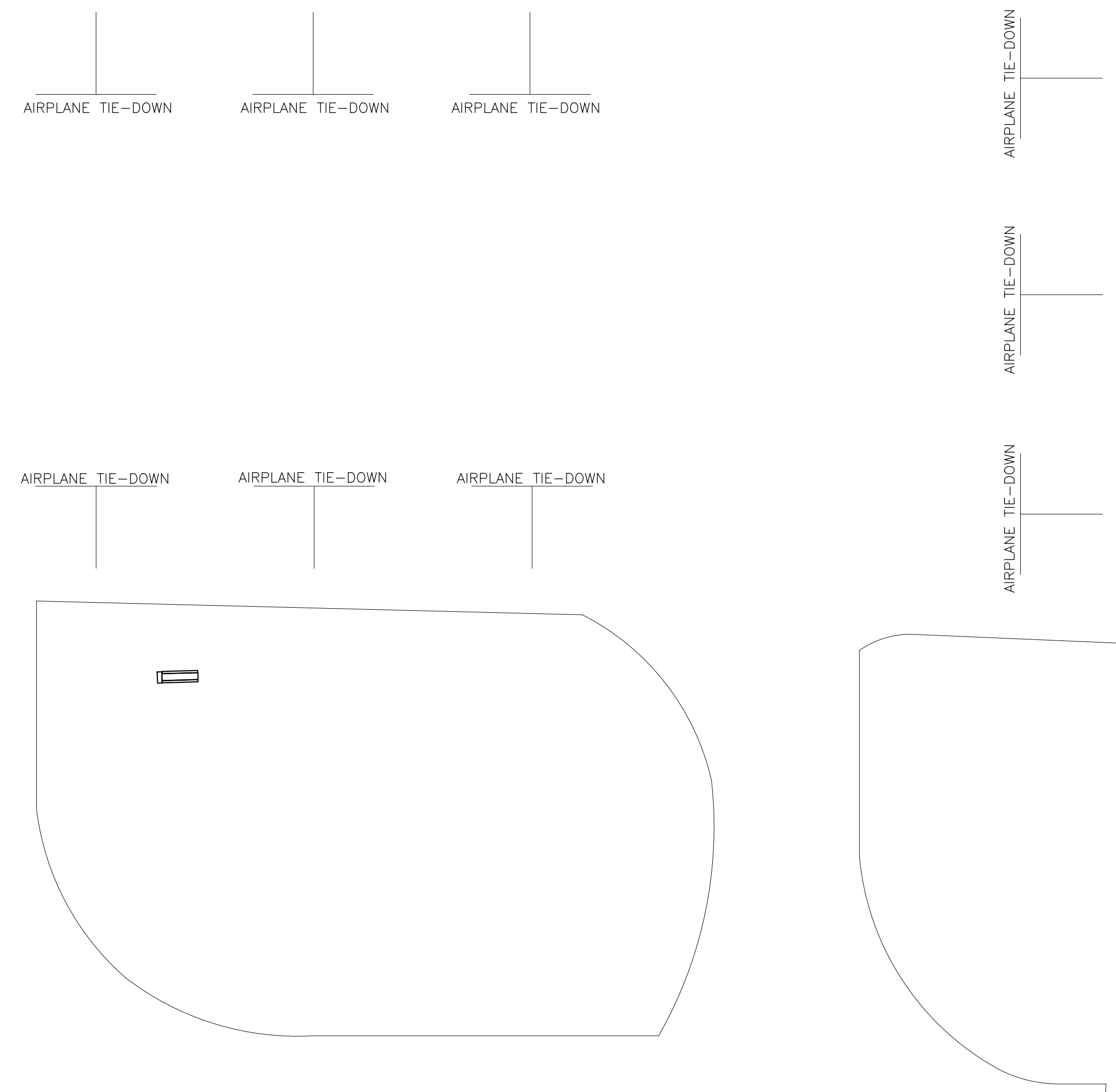
CP 100
△

TBM #1



EXISTING SYSTEM REMOVAL (BASE BID) DO NOT REMOVE WITHOUT TCEQ APPROVAL.

REMOVE:
1. EMERGENCY FUEL SHUT OFF AND FIRE EXTINGUISHERS
2. 5,000 GALLON AST
3. DISPENSER & PIPING
4. CONCRETE DISPENSER PAD



DATUM INFORMATION:
VERTICAL DATUM:
NORTH AMERICAN VERTICAL DATUM 1988.

HORIZONTAL DATUM:
GRID NORTH, TEXAS STATE PLANE COORDINATE SYSTEM, NAD83 (2011, EPOCH:2010, TEXAS NORTH CENTRAL ZONE (4202)

PROJECT IS IN GRID
SURFACE = GRID X 1.00014

TBM #1
CHISELED SQUARE ON CONCRETE PAD WITH ANTENNA
ELEVATION: 511.12'

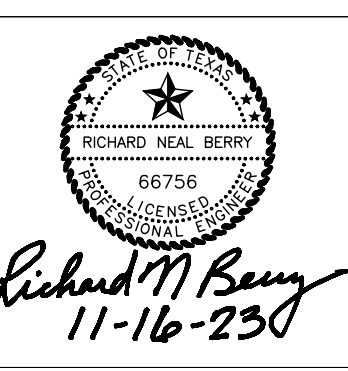
CP 100
SET 1/2" IRON ROD W/RED CAP
NORTHING: 7163240.45
EASTING: 2763459.33

CP 101
SET 1/2" IRON ROD W/RED CAP
NORTHING: 7163000.22
EASTING: 2763415.68

EXISTING FUEL SYSTEM LAYOUT
SCALE 1"=30'

S-1

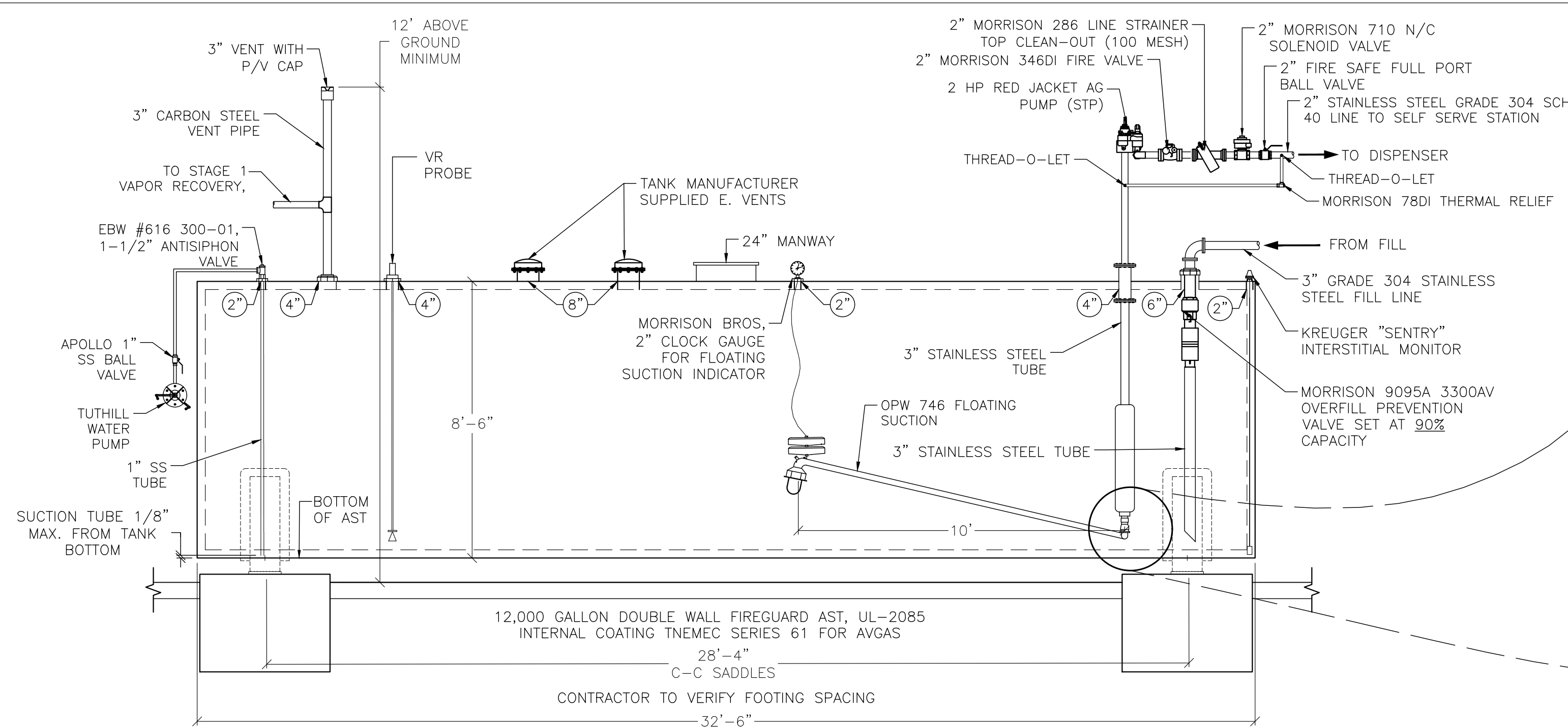
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DRAWN BY	PB		
CHECKED BY	RNB		
REVIEWED BY	RNB		
DATE	11-16-2023		
NO	DATE	REVISION	BY



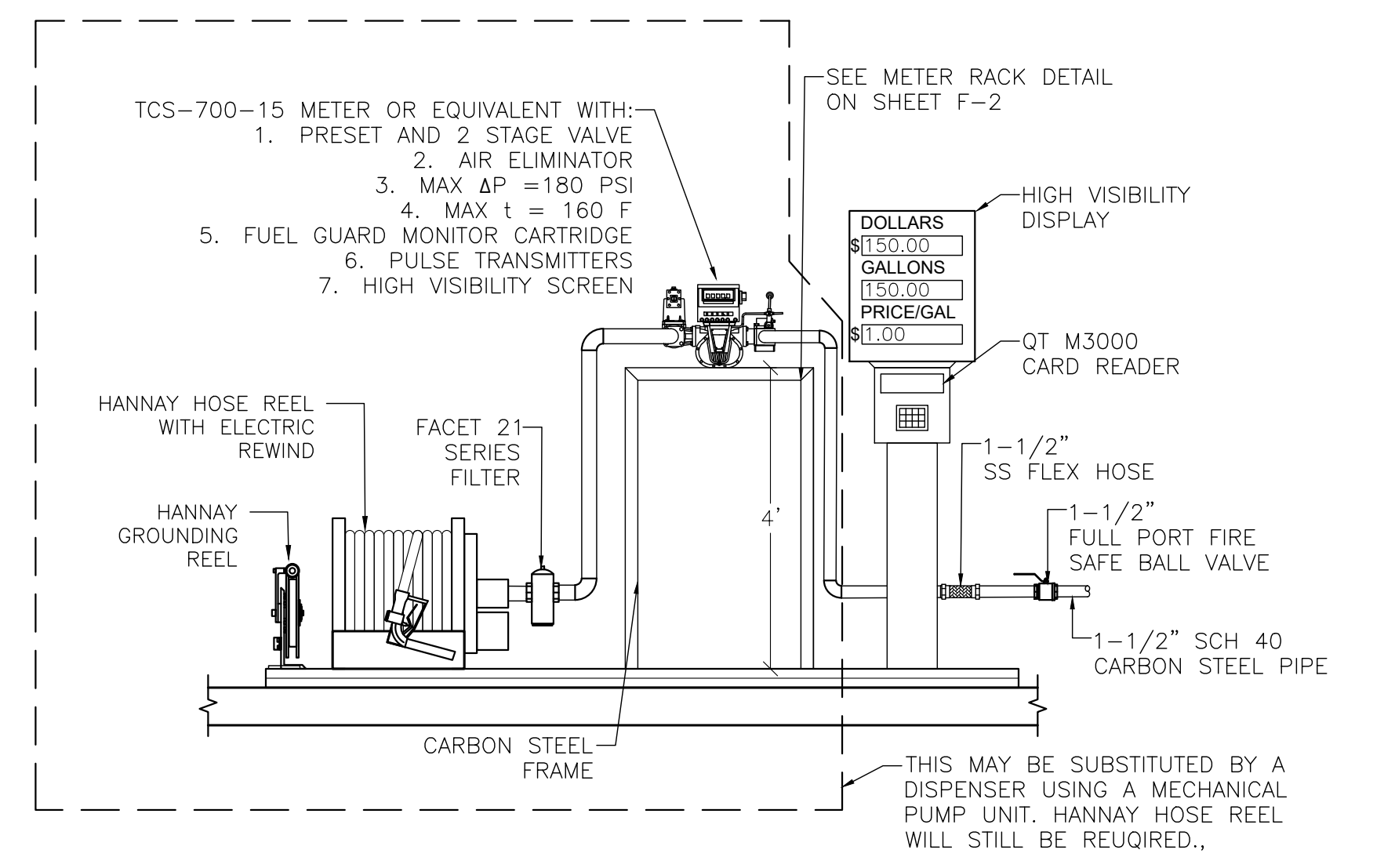
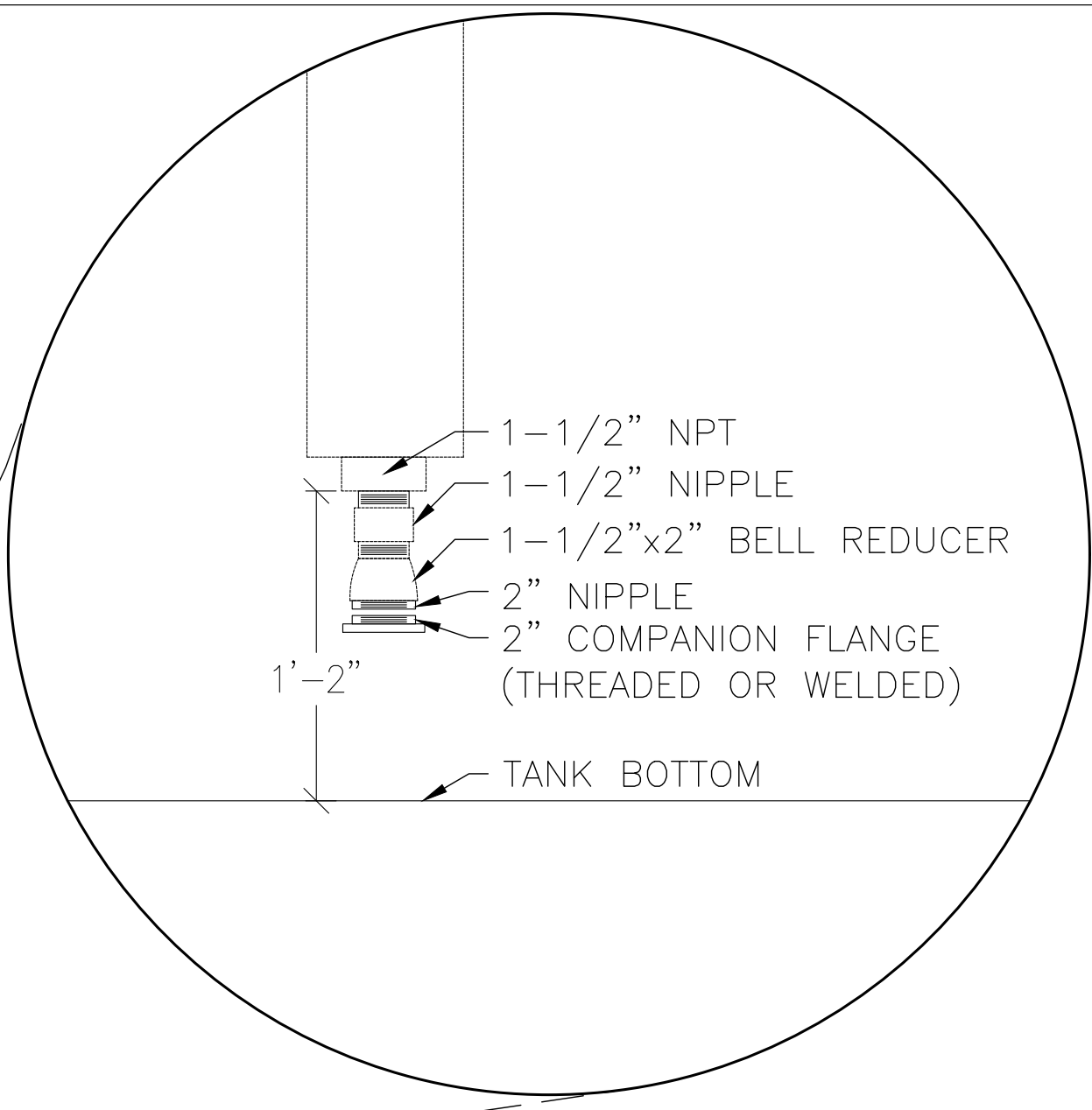
CDS muery
ENGINEERS | SURVEYORS
100 NE LOOP 410, STE. 300 | SAN ANTONIO, TEXAS 78216
(210) 581-1111 | TBPE NO. F-1733 | TBPLS NO. 100495-00

EXISTING SITE LAYOUT
COMMERCE MUNICIPAL AIRPORT
FUEL SYSTEM RENOVATION
1755 SH 50, Commerce, Texas 75428

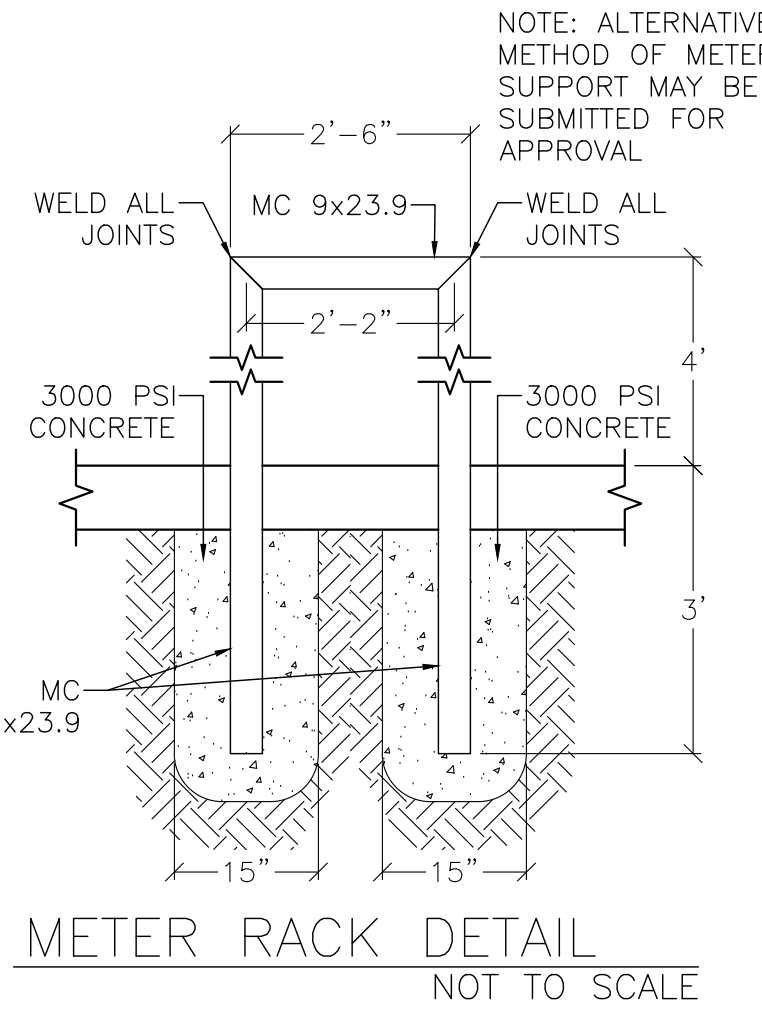
SHEET NO.	1
OF	8 SHEETS
FILE NO.	120192



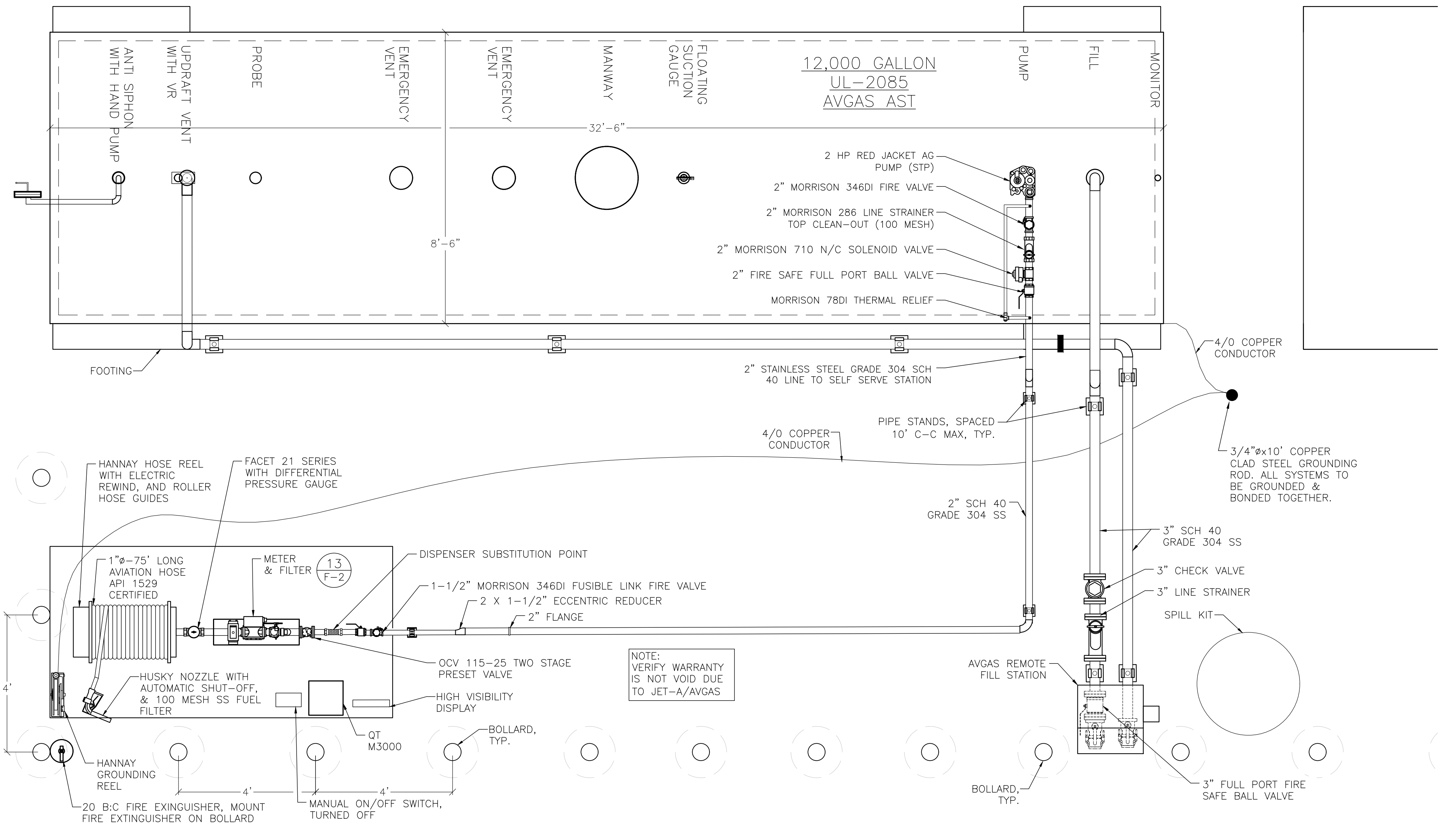
1 AVGAS AST DETAIL
F-1 SCALE: 1"=3'



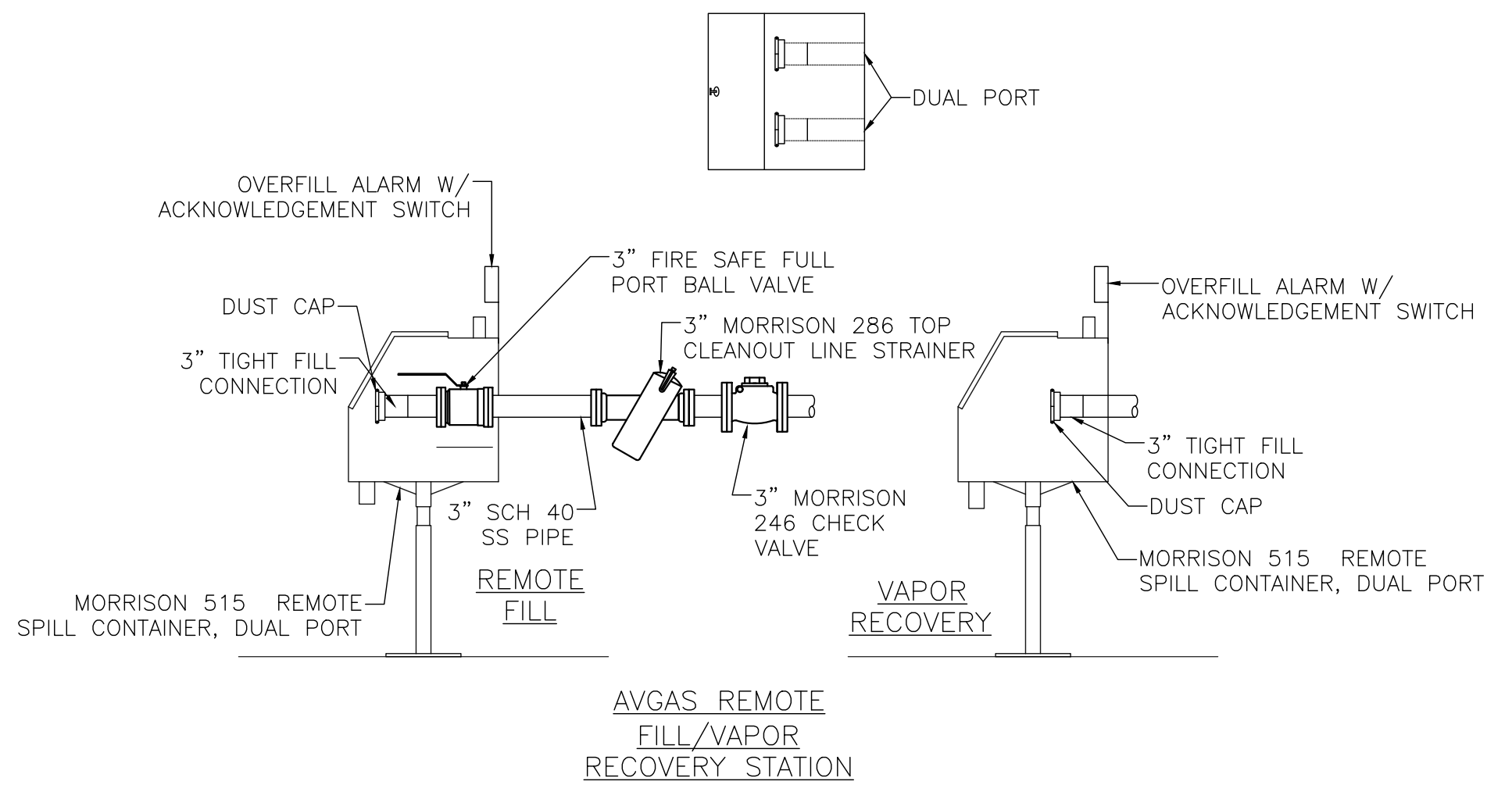
13 AVGAS SELF SERVE DISPENSER ELEVATION
F-2 F-3 SCALE: 1"=2'



METER RACK DETAIL
NOT TO SCALE



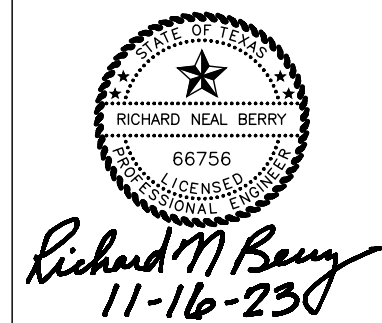
3 AVGAS SELF SERVE DISPENSER DETAIL
F-1 SCALE: 1"=2'



2 AVGAS FILL & VAPOR RECOVERY DETAIL
F-1 SCALE: 1"=2'

BASE BID

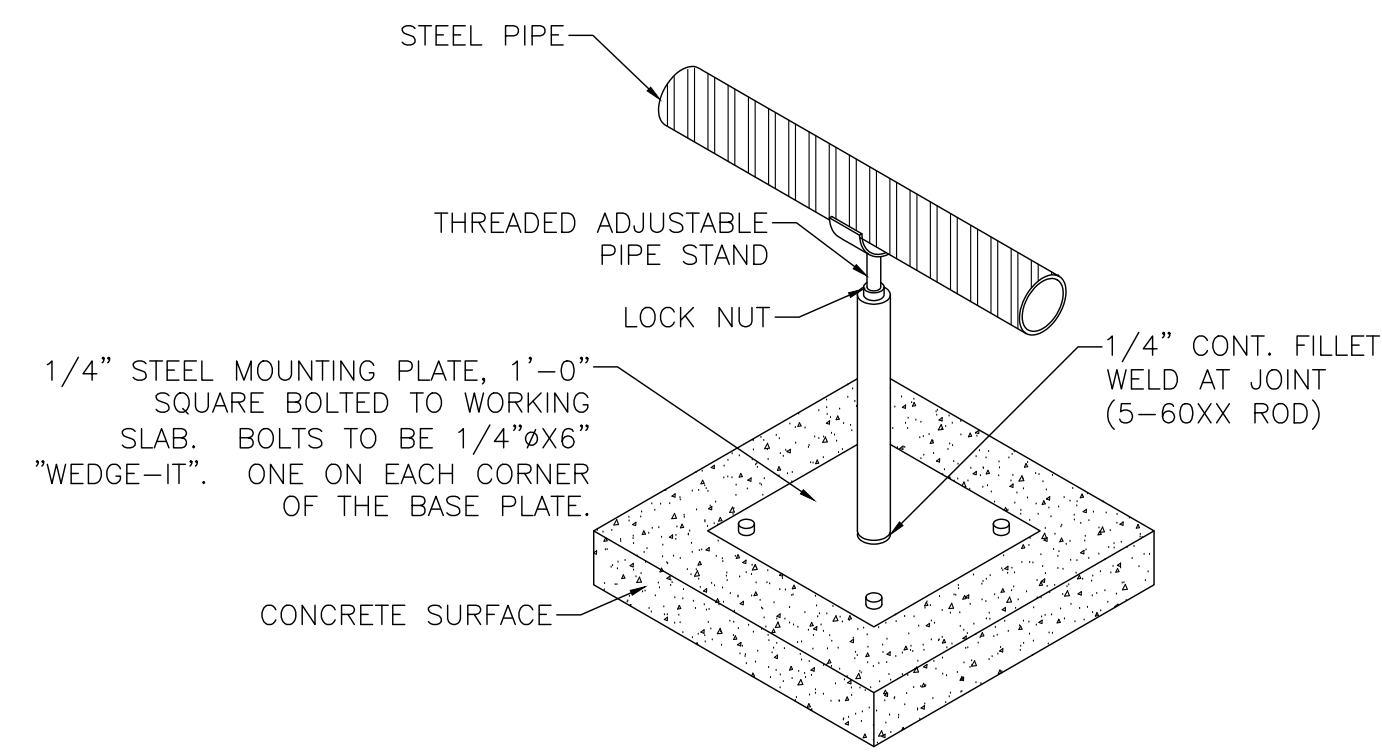
DESIGNED BY	CDS		
DRAWN BY	PB		
CHECKED BY	RNB		
REVIEWED BY	RNB		
DATE	11-16-2023		
NO	DATE	REVISION	BY



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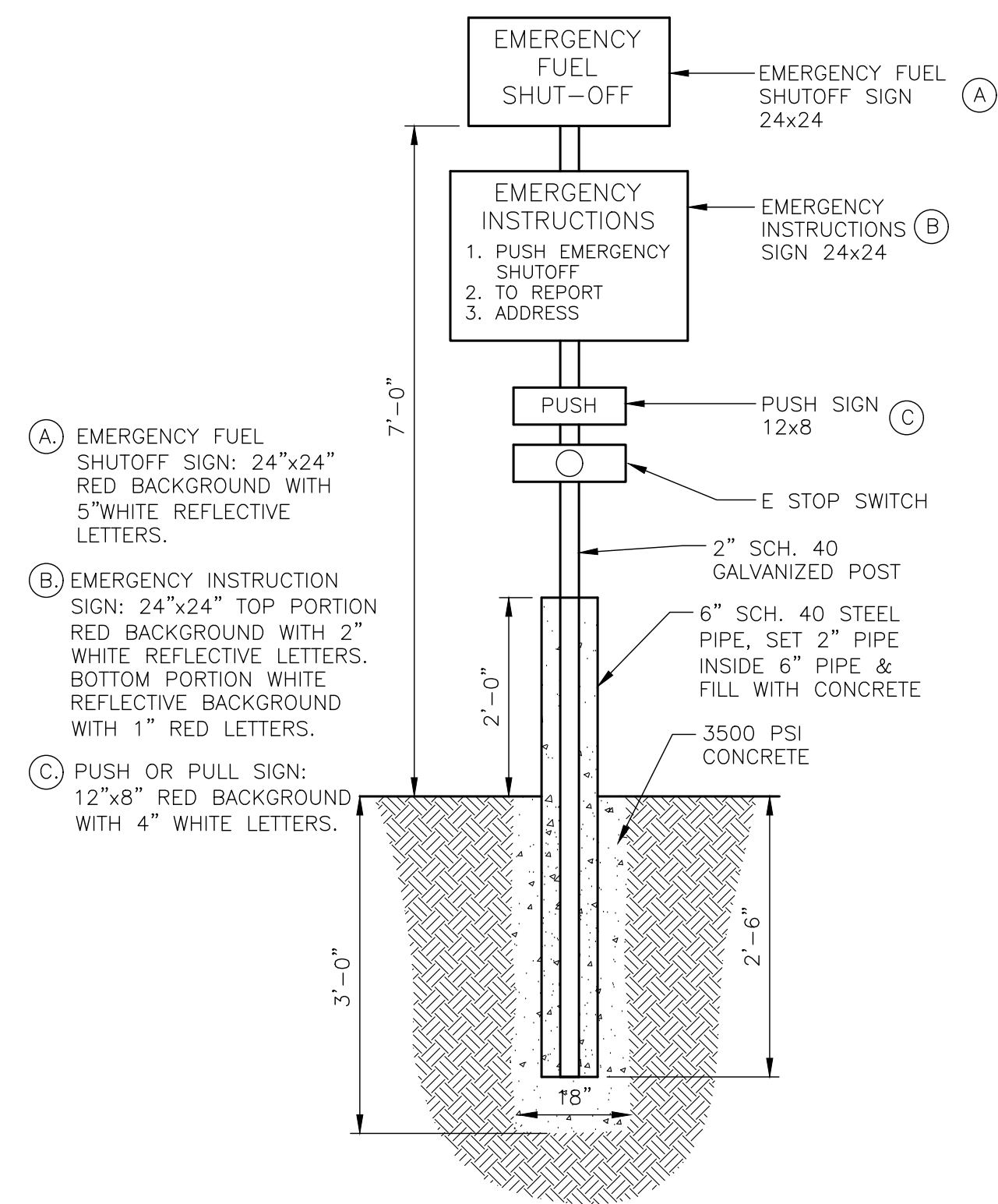
AVGAS AST DETAILS
COMMERCE MUNICIPAL AIRPORT
FUEL SYSTEM RENOVATION
1755 SH 50, Commerce, Texas 75428

SHEET NO. 3
OF 8 SHEETS
FILE NO. 120192



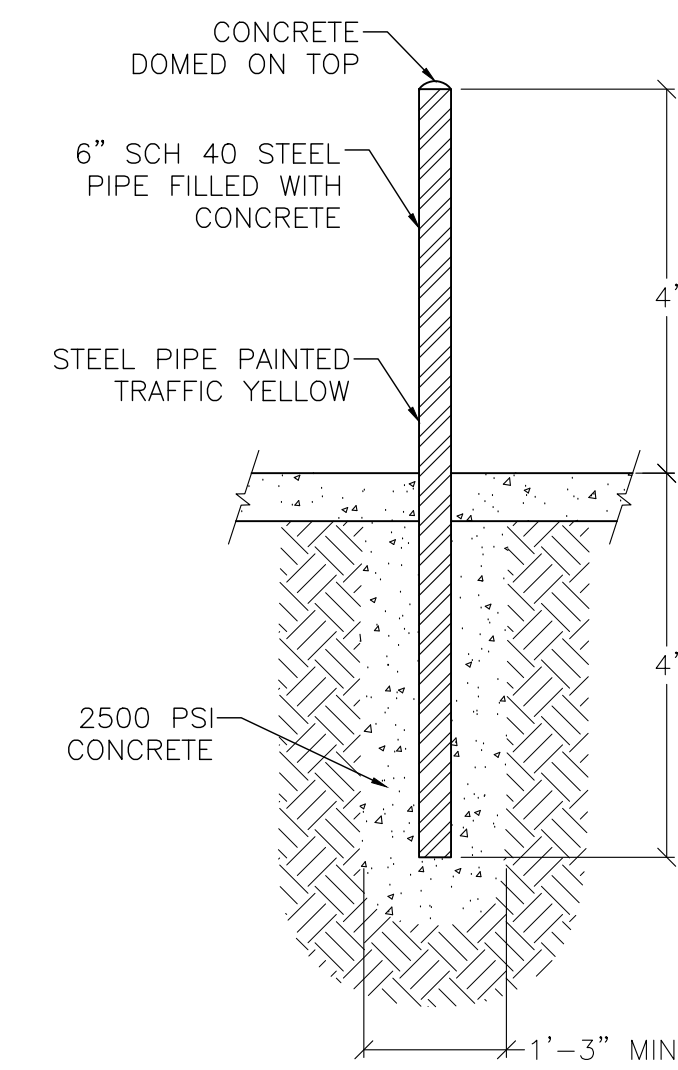
- NOTES:
1. PAINT PIPE STAND WITH APPROVED EXTERIOR PAINT MATCHING PIPING.
 2. PLACE PIPE IN STAND WITHOUT CLAMPS OR OTHER RESTRAINTS.
 3. MAXIMUM SPACING ON PIPE SUPPORTS IS 10'-0" O.C. OR IN POSITIONS INDICATED ON PLANS

7 PIPE STAND DETAIL
F-1 NOT TO SCALE

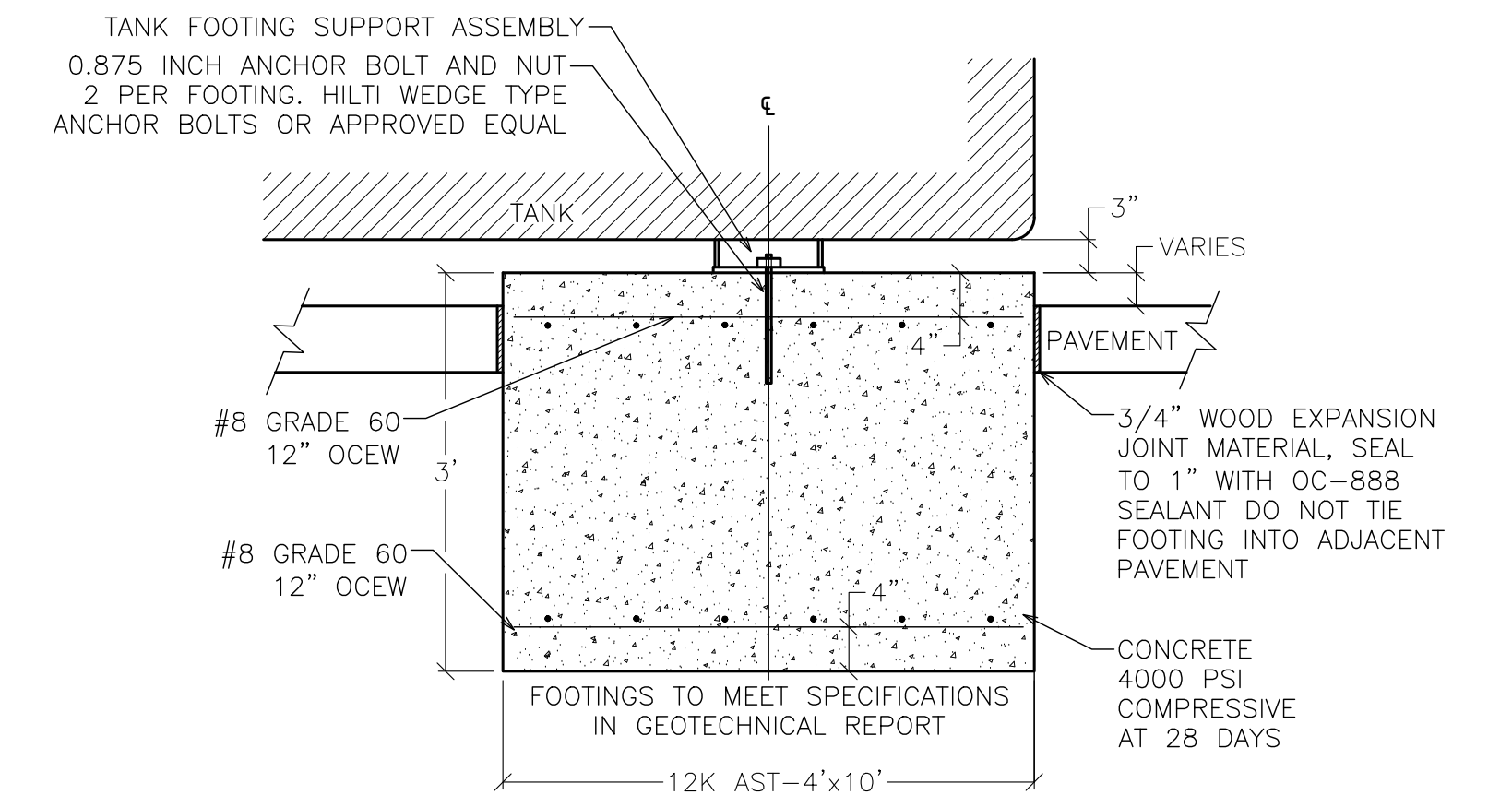


- (A) EMERGENCY FUEL SHUTOFF SIGN: 24"x24" RED BACKGROUND WITH 5" WHITE REFLECTIVE LETTERS.
- (B) EMERGENCY INSTRUCTION SIGN: 24"x24" TOP PORTION RED BACKGROUND WITH 2" WHITE REFLECTIVE LETTERS. BOTTOM PORTION WHITE REFLECTIVE BACKGROUND WITH 1" RED LETTERS.
- (C) PUSH OR PULL SIGN: 12"x8" RED BACKGROUND WITH 4" WHITE LETTERS.

8 EMERGENCY FUEL SHUTOFF DETAIL
F-1 NOT TO SCALE

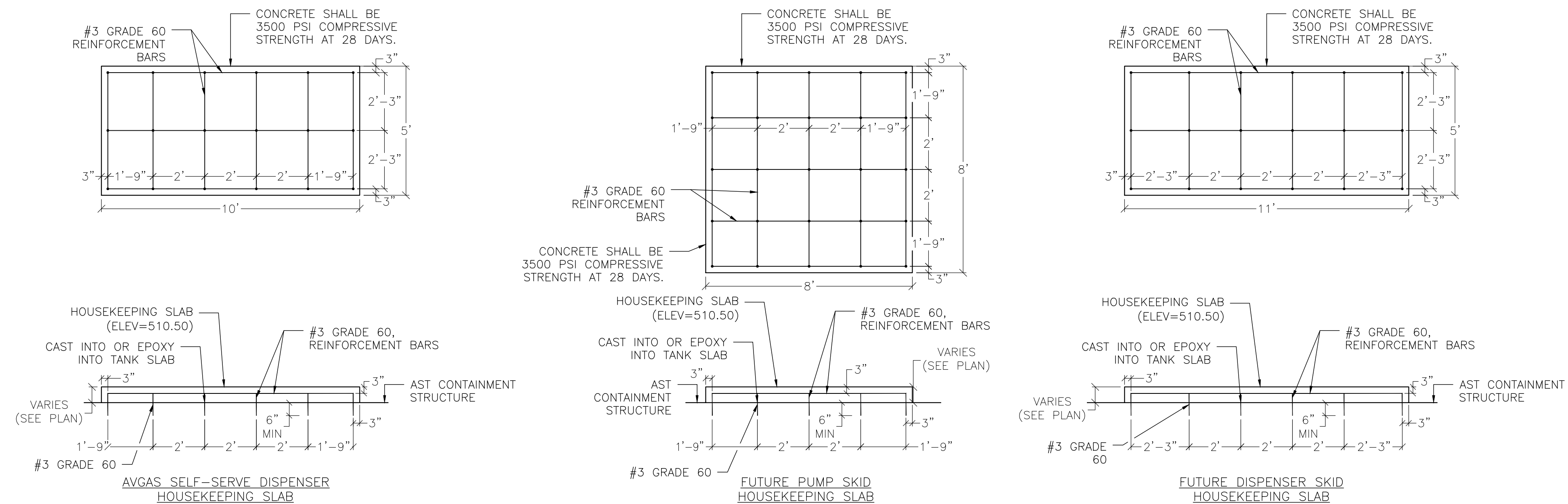


9 BOLLARD DETAIL
F-1 NOT TO SCALE



10 FOOTING DETAIL
F-1 NOT TO SCALE

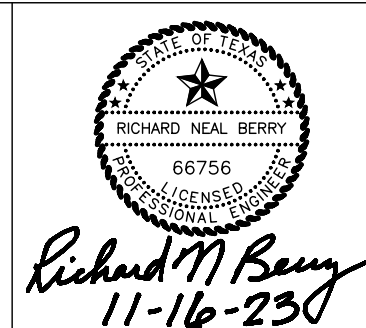
NOTE:
ROUGHEN CONCRETE OF CONTAINMENT STRUCTURE, CLEAN LOOSE MATERIAL FROM PAD AND SET FORMS FOR HOUSEKEEPING SLAB. APPLY CONCRETE ADHESIVE, SET STEEL, AND PLACE CONCRETE.



11 PUMP SKID HOUSEKEEPING SLAB DETAILS
F-1 SCALE: 1"=2'

F-3

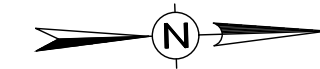
DESIGNED BY	CDS		
DRAWN BY	PB		
CHECKED BY	RNB		
REVIEWED BY	RNB		
DATE	11-16-2023		
NO	DATE	REVISION	BY



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(210) 581-1111 | TBPE NO. F-1733 | TBPLS NO. 1004995-00

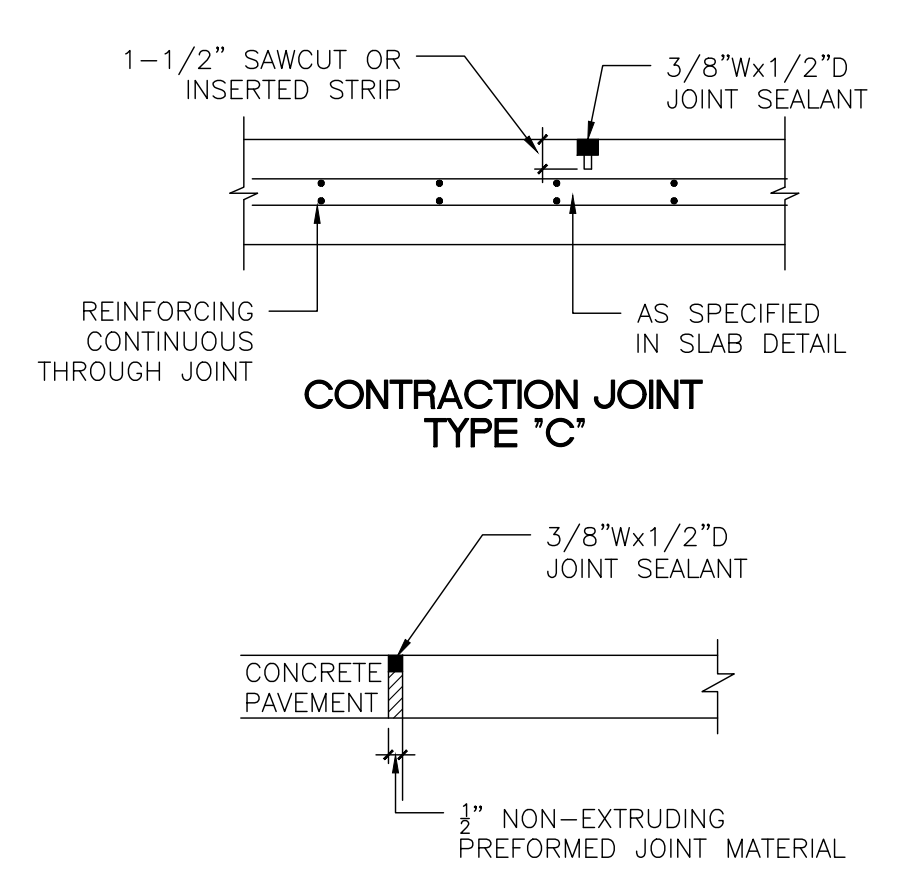
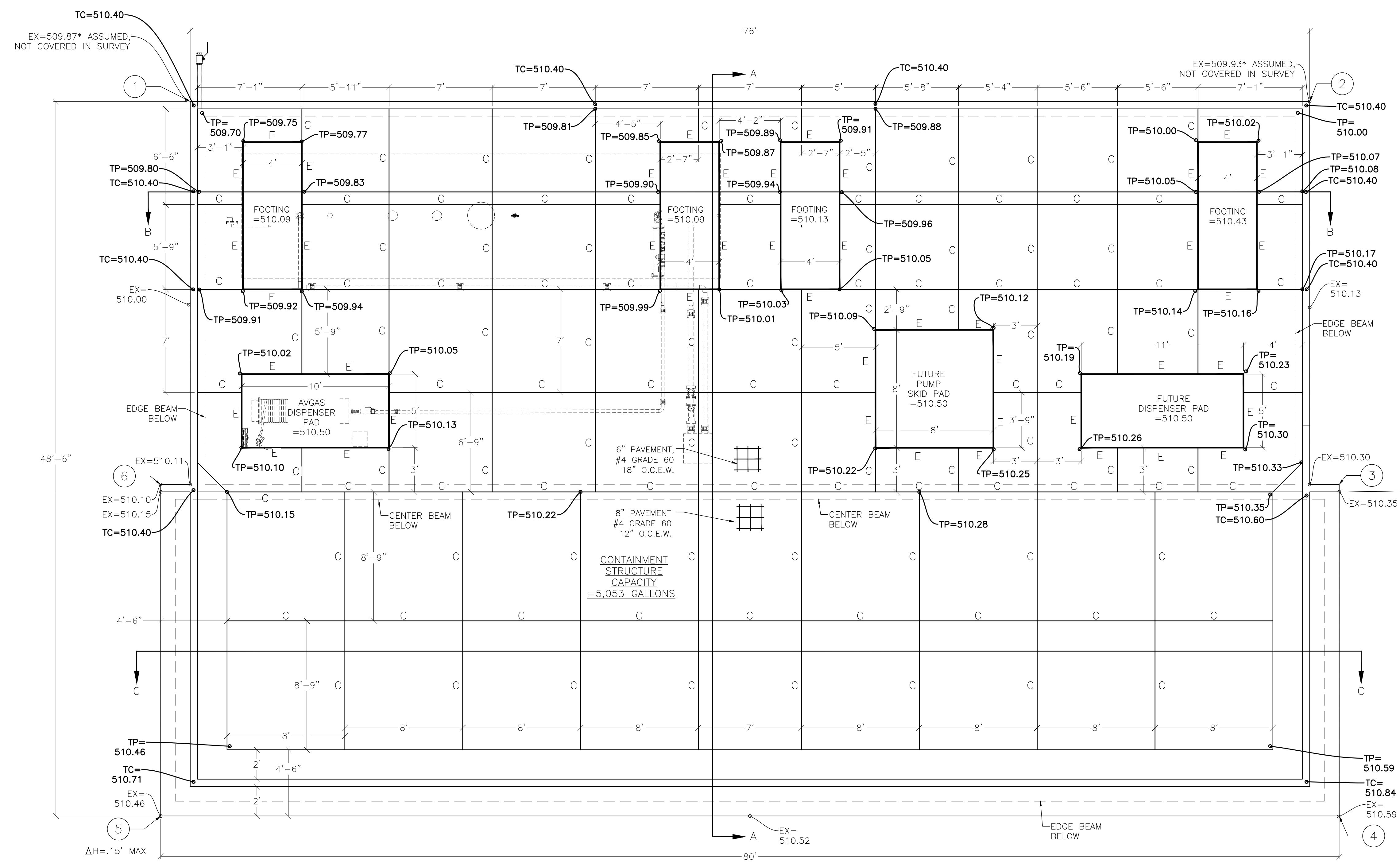
DETAILS
COMMERCE MUNICIPAL AIRPORT
FUEL SYSTEM RENOVATION
1755 SH 50, Commerce, Texas 75428

SHEET NO. 4
OF 8 SHEETS
FILE NO. 120192



STATE PLANE COORDINATES		
SPC #	NORTHING	EASTING
1	7163409.41	2763450.87
2	7163485.32	2763454.48
3	7163486.08	2763480.55
4	7163485.01	2763503.02
5	7163405.10	2763499.22
6	7163406.17	2763476.74

NOTE: THESE STATE PLANE COORDINATES ARE IN GRID FORMAT.



NOTE: ALL SAW CUTS SHALL BE COMPLETED WITHIN 8 HOURS OF INITIAL SET OF CONCRETE

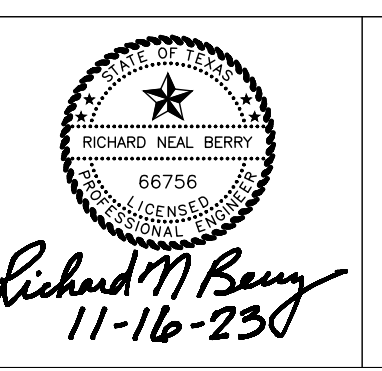
12 F-1
 CONTAINMENT STRUCTURE ELEVATIONS, STATE PLANE COORDINATES & JOINT PATTERN
 SCALE, IN FEET
 1"=4'

THIS STRUCTURE IS IN BASE BID.

F-4

NO	DATE	REVISION	BY

DESIGNED BY: CDS
 DRAWN BY: PB
 CHECKED BY: RNB
 REVIEWED BY: RNB
 DATE: 11-16-2023

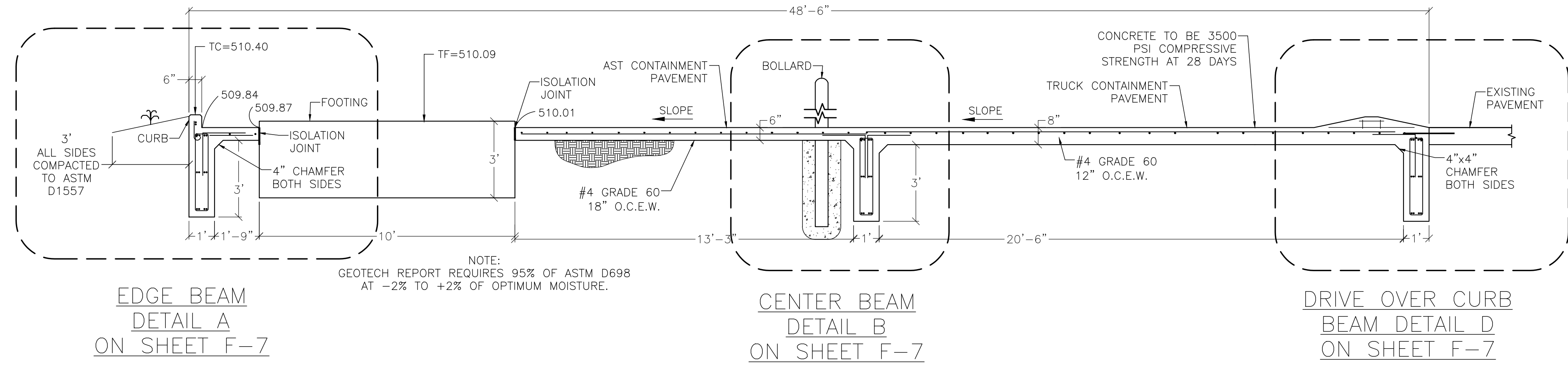


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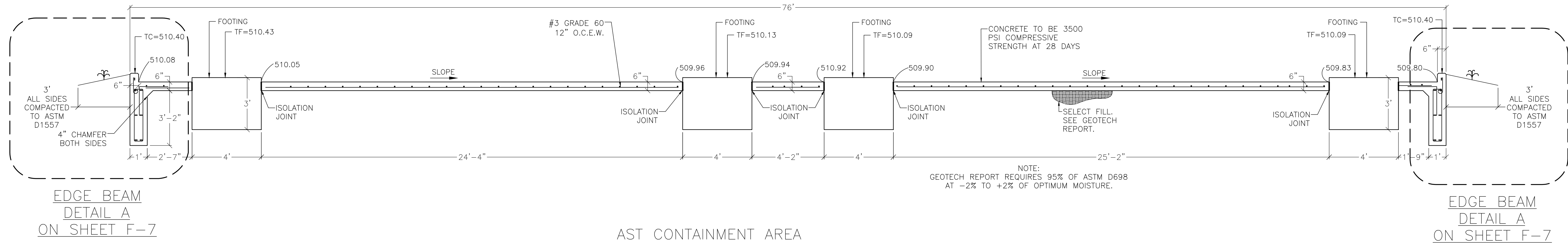
CONCRETE LAYOUT DETAILS
 COMMERCE MUNICIPAL AIRPORT
 FUEL SYSTEM RENOVATION
 1755 SH 50, Commerce, Texas 75428

SHEET NO. 5
 OF 8 SHEETS
 FILE NO. 120192

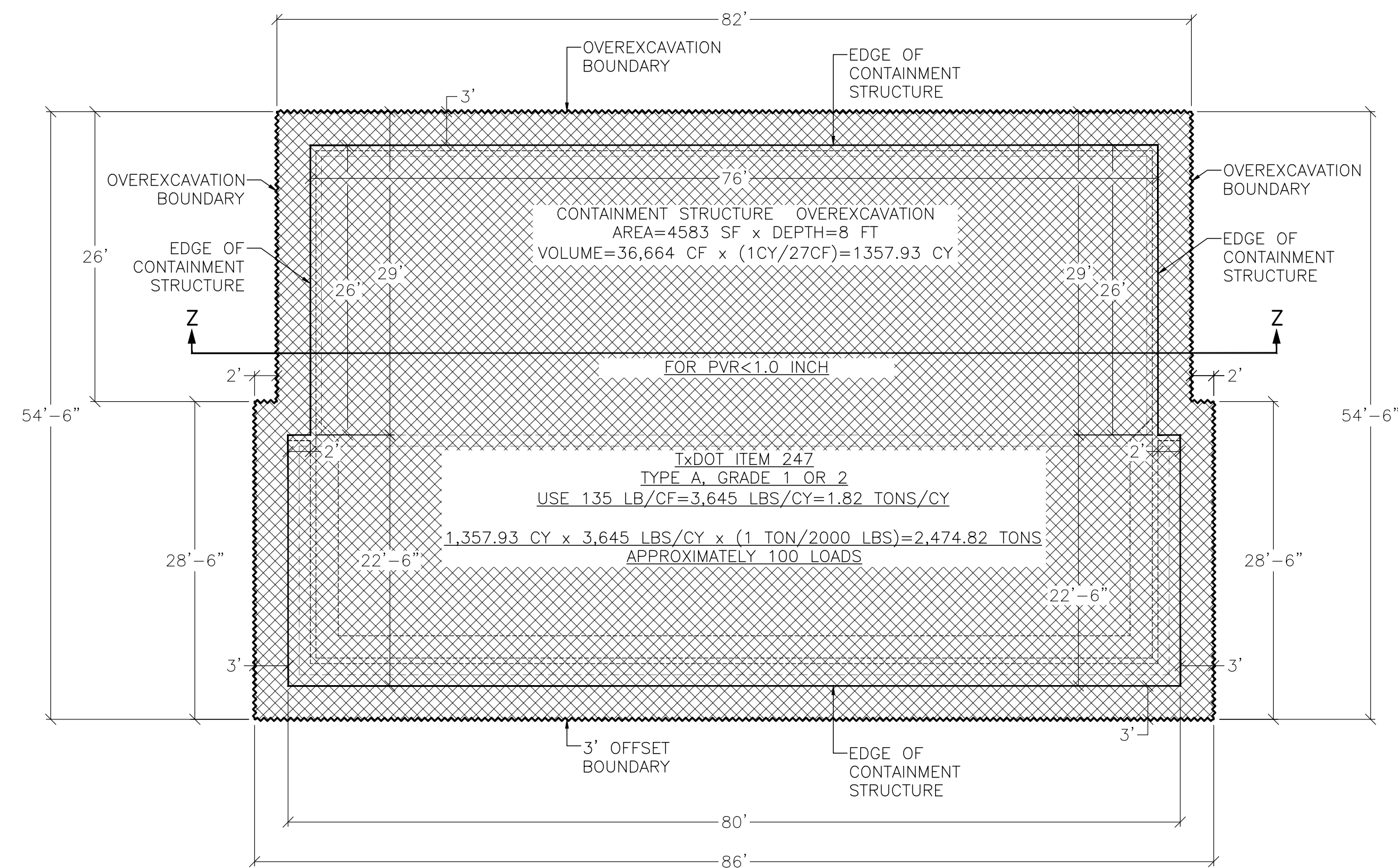
NOTE:
CONTRACTOR TO VERIFY FOOTING
SPACING WITH TANK
MANUFACTURER PRIOR TO
SETTING CONCRETE LAYOUT.



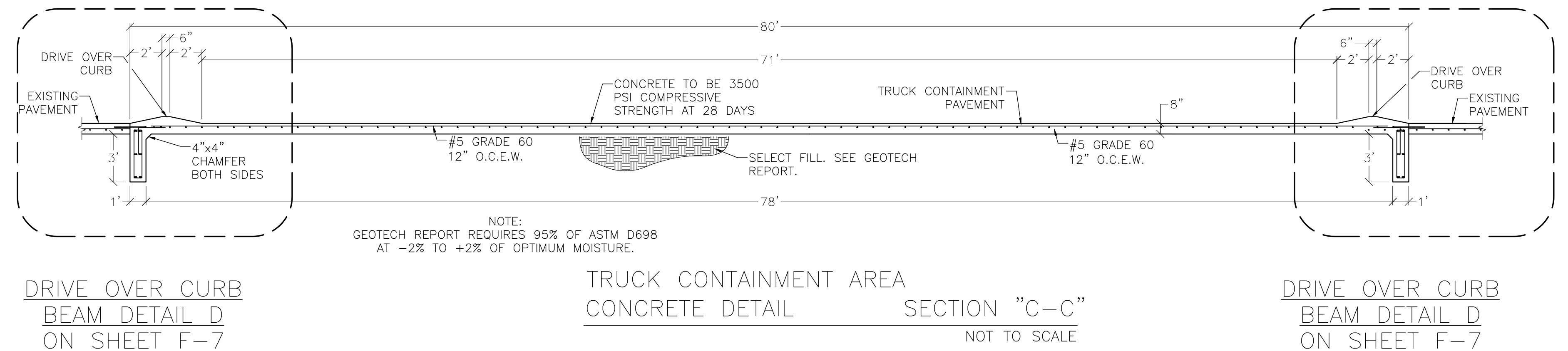
TRUCK/AST CONTAINMENT AREA
CONCRETE DETAIL SECTION "A-A"
NOT TO SCALE



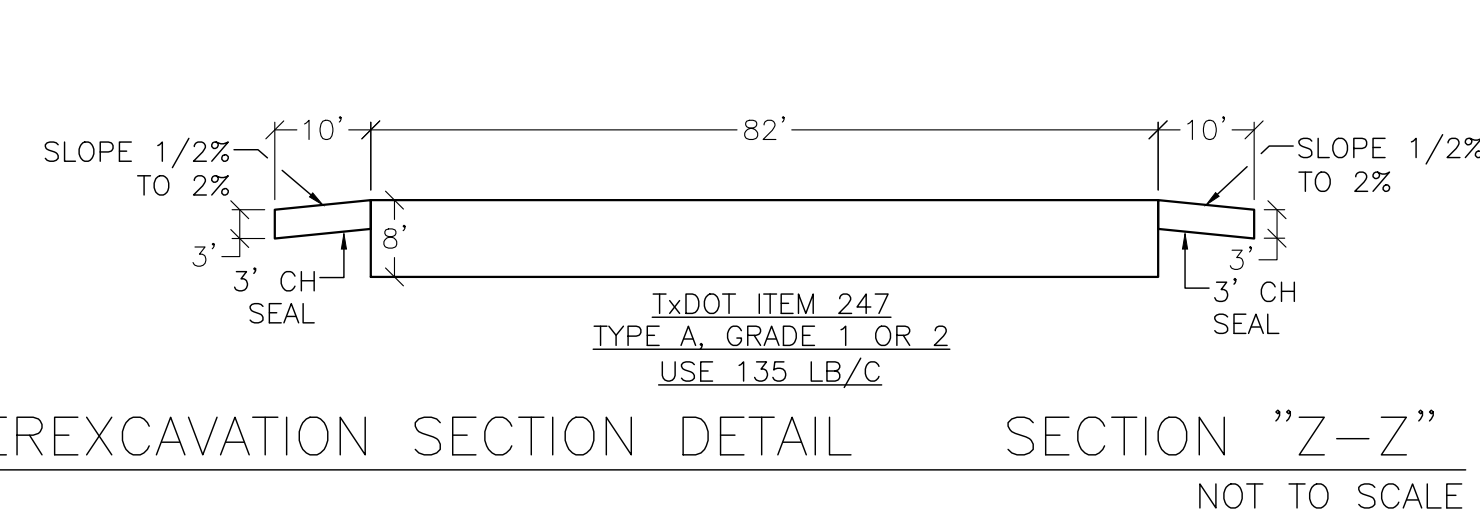
AST CONTAINMENT AREA
CONCRETE DETAIL SECTION "B-B"
NOT TO SCALE



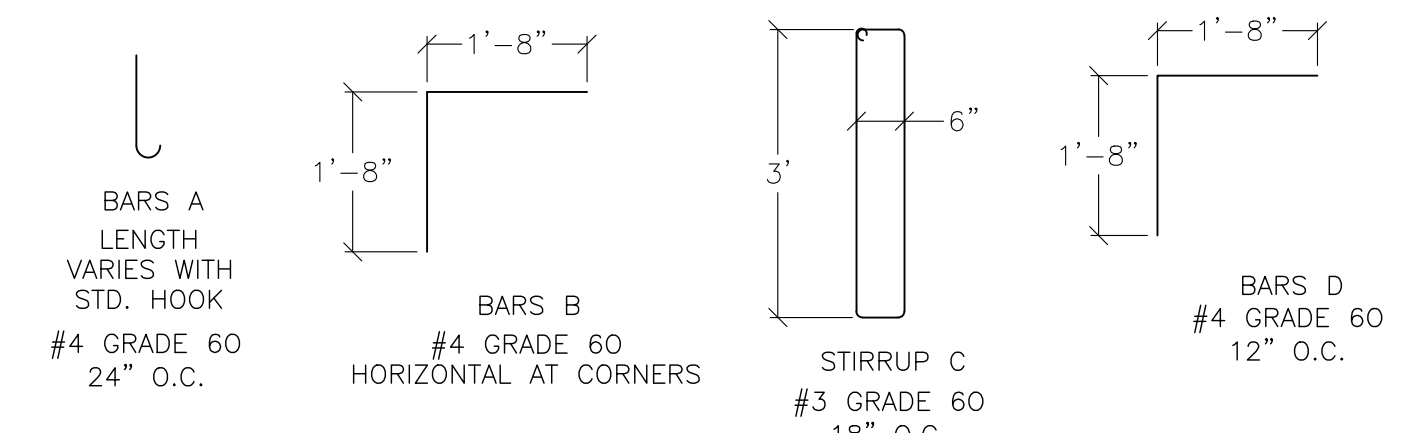
OVEREXCAVATION DETAIL
NOT TO SCALE



DRIVE OVER CURB BEAM DETAIL D ON SHEET F-7
TRUCK CONTAINMENT AREA CONCRETE DETAIL SECTION "C-C"
NOT TO SCALE

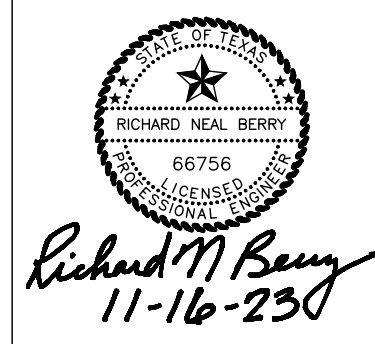


OVEREXCAVATION SECTION DETAIL SECTION "Z-Z"
NOT TO SCALE



REINFORCEMENT BAR DETAILS
NOT TO SCALE

DESIGNED BY	CDS		
DRAWN BY	PB		
CHECKED BY	RNB		
REVIEWED BY	RNB		
DATE	11-16-2023		
NO	DATE	REVISION	BY

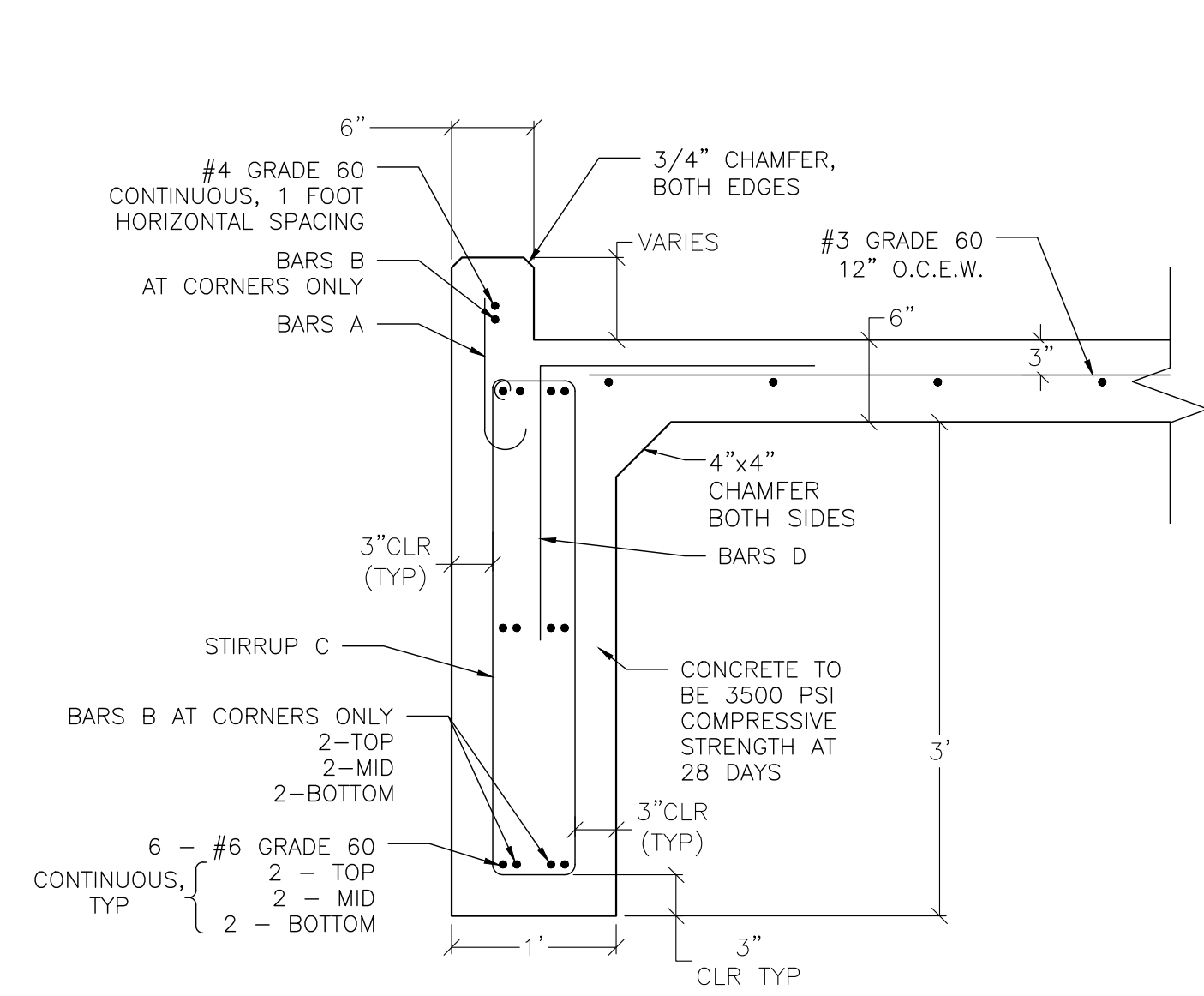


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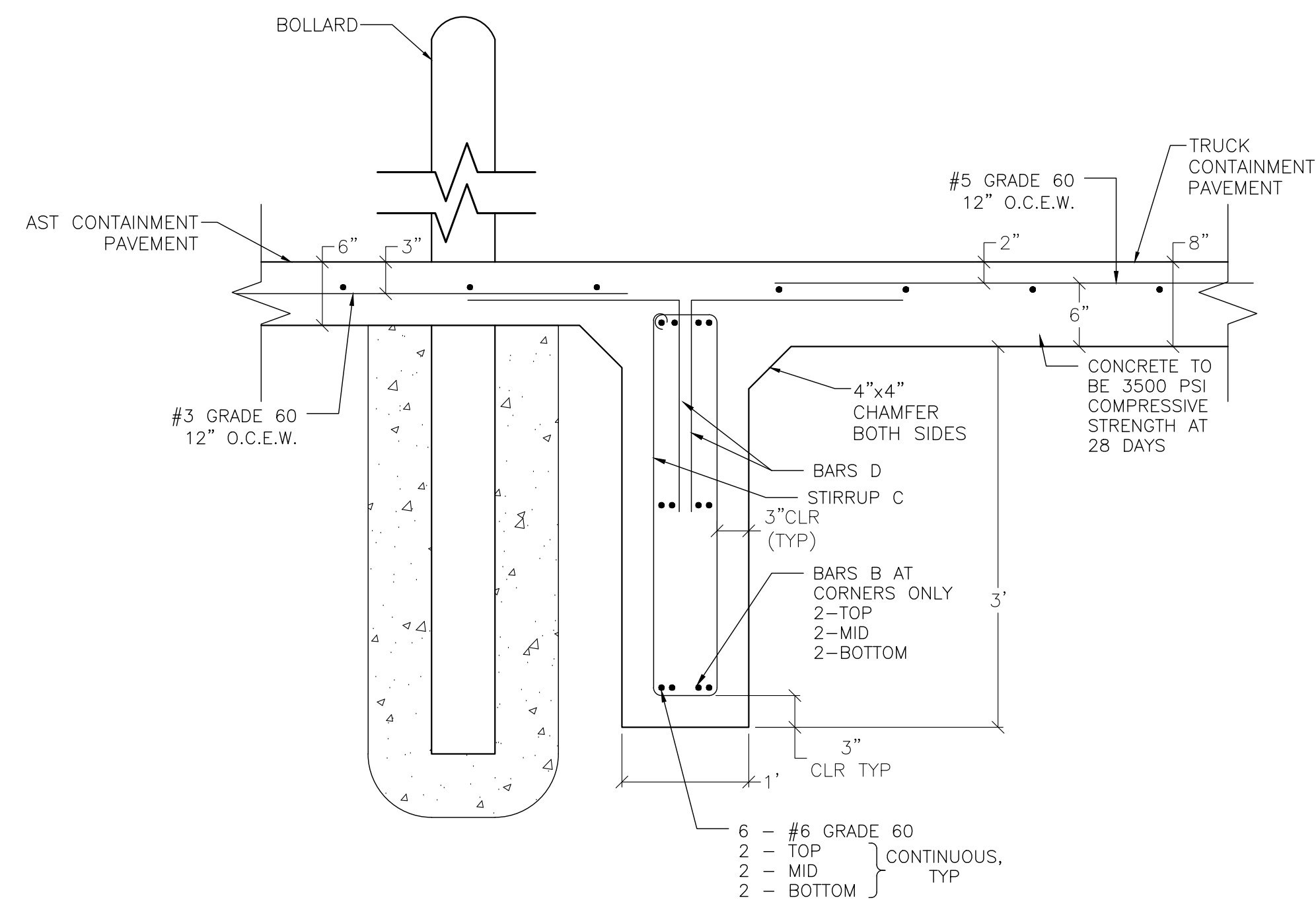
CONCRETE SECTION DETAILS
COMMERCE MUNICIPAL AIRPORT
FUEL SYSTEM RENOVATION
1755 SH 50, Commerce, Texas 75428

SHEET NO. 6
OF 8 SHEETS
FILE NO. 120192

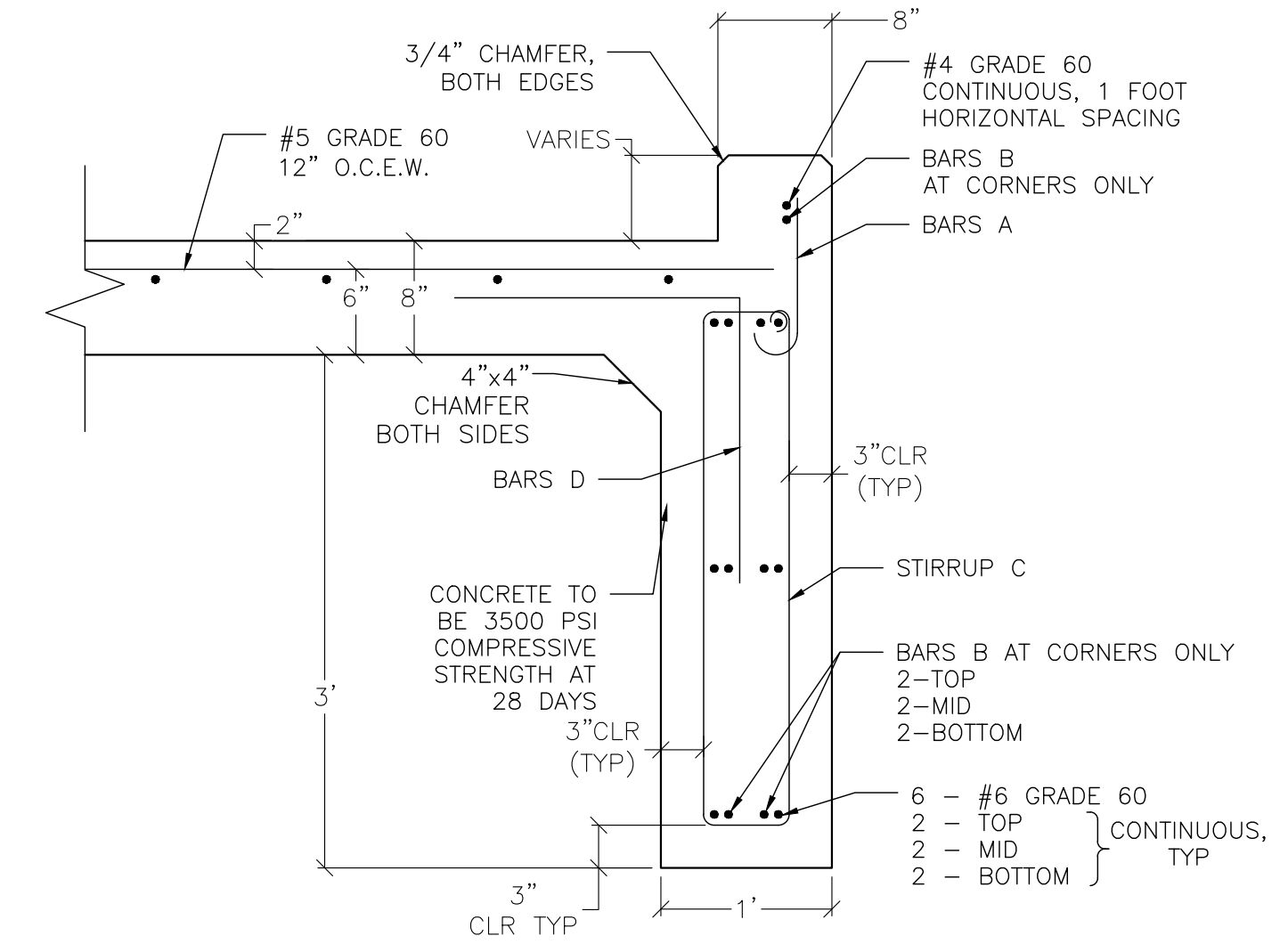
F-5



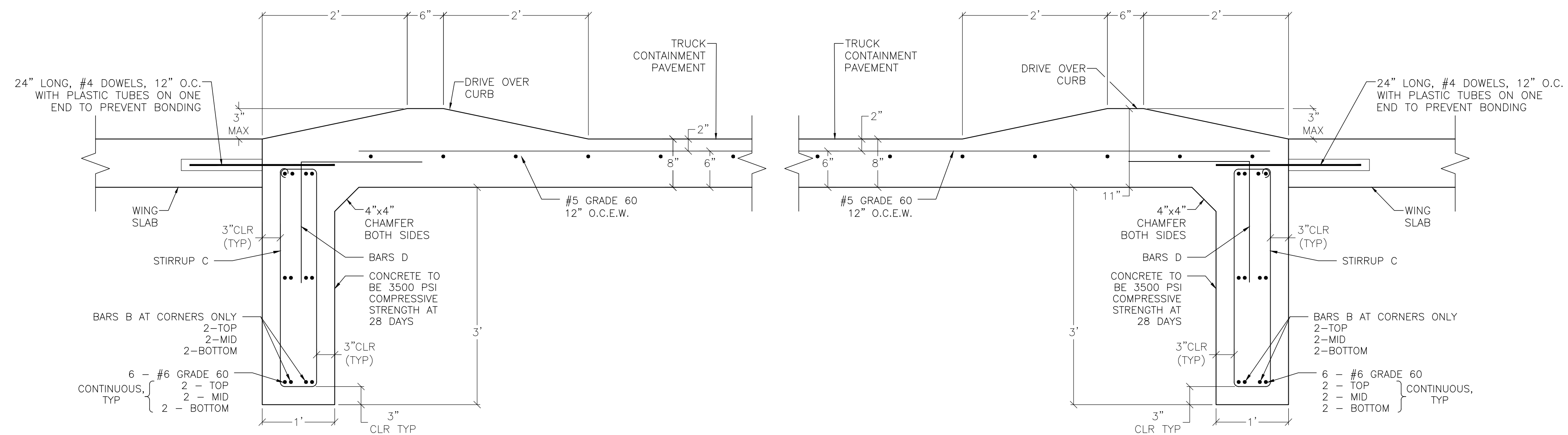
EDGE BEAM DETAIL A
NOT TO SCALE



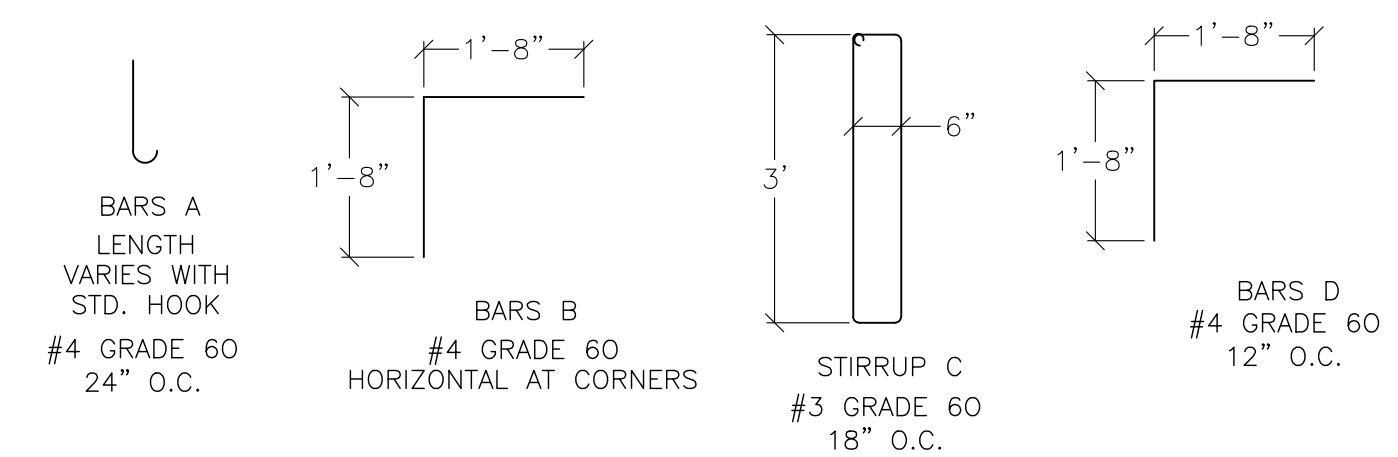
CENTER BEAM
DETAIL B
NOT TO SCALE



EDGE BEAM DETAIL C
NOT TO SCALE

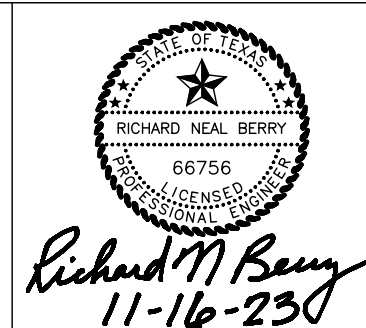


DRIVE OVER CURB EDGE BEAM
DETAIL D
NOT TO SCALE



REINFORCEMENT BAR DETAILS
NOT TO SCALE

DESIGNED BY	CDS		
DRAWN BY	PB		
CHECKED BY	RNB		
REVIEWED BY	RNB		
DATE	11-16-2023		
NO	DATE	REVISION	BY



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CONCRETE BEAM DETAILS
COMMERCE MUNICIPAL AIRPORT
FUEL SYSTEM RENOVATION
1755 SH 50, Commerce, Texas 75428

SHEET NO. 7
OF 8 SHEETS
FILE NO. 120192

GENERAL NOTES AND SPECIFICATIONS

- The scope of this project includes, but is not limited to, the following.
 - The installation of one 12,000 gallon Avgas aboveground storage tank.
 - The installation of an Avgas Self-Serve Dispenser Island.
 - All associated piping connecting these systems as specified.
 - The electrical power and controls for these systems.
 - The concrete containment structure.
- The Contractor installing these systems shall be experienced in the construction of aviation systems.
- The Contractor is solely responsible for the means and methods of construction.
- The Contractor shall prepare a site specific health and safety plan for this project. This plan shall be on site and available for use at all times that construction activities are taking place.
- Upon completion of the system, the Contractor shall clean and purge the systems. All pressures shall be adjusted, and Millipore tests shall be conducted to insure clean fuel is dispensed from the systems. Purge the systems until a clean Millipore test is achieved. Fuel for the purging and testing of the systems shall be provided by the Owner. The cost of contaminated fuel disposal shall be the responsibility of the Owner.
- The Contractor shall test all components of this fuel system including the proper operation of the overflow valves on both tanks. The Owner shall observe the operation of these overflow valves during the testing.

Fuel System

- The pump skids shall be constructed by the Contractor and shall be prewired and ready for installation upon arrival at the site. The wiring must be intrinsically safe and explosion proof. The systems shall meet all State and local codes and the NEC. Motor starters and other electrical components may be mounted on the pump skid, however the on/off switches must be positioned as indicated on the plans. The pump controls for off loading must be accessible at the off load station, and on/off controls must also be positioned at the dispensing stations.
- There is a water slug float switch at the filter separator vessel. This float switch shall stop the pump motor if water is detected in the sump of the filter/separator.
- There shall be an Emergency Fuel Shut Off switch. Activation of any of the Emergency Fuel Shut Off switches shall stop fuel flow by stopping all pump motors. The Emergency Fuel Shut Off switches shall require resetting a shunt trip breaker to reactivate the pump motors.
- The card reader shall be used to account for and accept payment for all fuels that are dispensed. Pulsars are to be included in the Jet A meter and the Avgas dispenser and connected to the fuel management system. Any additional equipment necessary to complete these operations shall be included in the installation of the fuel storage and dispensing systems.
- A Veeder Root TLS-450 plus system shall be installed in the Airport Manager's office. This system shall monitor the interstitial space of both ASTs, and provide a fuel level reading in each of the two ASTs. All components necessary to complete this operation shall be included in the Veeder Root installation.
- All carbon steel piping and pump skid frames shall be cleaned, primed, and coated with a paint compatible with the associated fuel. The prime coat and top coats shall be of the same manufacturer.
- All fittings and components shall UL listed for use in fuel systems.
- All tanks and piping shall be labeled in accordance with NFPA 407 and the applicable API codes.

START UP AND TRAINING

- The Contractor shall provide one training session to the Fuel System Operators. The Contractor shall plan on the training session lasting 5 hours at minimum in order to fully describe the system and its operation, and in order to answer any questions that the Commerce Municipal Airport operators, pilots, and maintenance staff may have. The Contractor shall coordinate this training session with the Commerce Municipal Airport staff upon completion of the system, including all flushing and adjustment operations.

GENERAL COMMENTS & NOTES

- OPERATIONAL SAFETY ON AIRPORT DURING CONSTRUCTION.** All Contractors' operations shall be conducted in accordance with the project Construction Safety and Phasing Plan (CSPP) and the provisions set forth within the current version of AC 150/5370-2. The CSPP included within the contract documents conveys minimum requirements for operational safety on the airport during construction activities. The Contractor shall prepare and submit a Safety / Security Plan that details how it proposes to comply with the requirements presented within the CSPP for approval 30 days prior of commencement of any work.

The Contractor shall implement all necessary Safety/Security Plan measures prior to commencement of any work activity. The Contractor shall conduct routine checks to assure compliance with the safety plan measures.

The Contractor is responsible to the Owner for the conduct of all subContractors it employs on the project. The Contractor shall assure that all subContractors are made aware of the requirements of the CSPP and that they implement and maintain all necessary measures.

No deviation or modifications may be made to the approved CSPP unless approved in writing by the Owner or Engineer.

Airport Safety Requirements and Restrictions

The operations of all equipment, mobile or stationary, required for the construction of this project, including, but not restricted to construction equipment, delivered material, visitors, sales representatives, etc., shall be governed by the following regulations while operating within the landing areas or apron are at Commerce Municipal Airport.

The Contractor and all personnel that will be working within the AOA shall complete the City's training course on communications, safety, etc. The Contractor shall assign a minimum of two people to assist in traffic coordination during construction work within the AOA. All vehicles on active taxiways and aprons must be escorted by bagged Contractor Personnel with Contractor radio and ATCT ground control radio. Contractor shall be required to provide the cellular telephone number to the, Airport Operations Manager and Airport Construction Manager.

Airport Security Requirements

Contractors involved in construction as described in this specification and plans will be required to follow the procedures listed below for security clearance during construction.

- A pre-construction conference will be required with the Operations Manager, the Project Manager, the Construction Manager, the Resident Project Representative and all Contractors involved. This meeting will be scheduled following the award of contract.
- Contractors will be required to provide the following information to the operations Manager. This information is required for a security clearance check only.
 - List employees who, at one time or another, will be working on the job site.
 - Texas Driver's License numbers of those same employees, date of birth and race.
 - List of vehicles and their respective license plates, which may be used on the job site. The Security precautions are an FAA and TSA requirement to the operation of the Airport. Any conflicts and/or problems in the area of security should be relayed by the Contractor to the Operations Manager. All efforts will be made by the airport staff to permit construction and security work in harmony.

Samples of forms for security badges, background checks, letters of authorization, etc. are included for your familiarity. They follow FAA Advisory Circulars on Airport Safety. The Airport reserves the right to limit the number of badges issued to Contractor Personnel.

See "Attachment 2" following this section, which will take precedent over other special provisions in event of conflict, for additional requirements:

- Federally Required Language
- CCIA Background Verification Forms
- FAA Advisory Circular 150/5370-2F Operational Safety on Airports During Construction – Commerce Municipal Airport Visitor/Contractor On-Site Permit information is also included in the Appendix.

ALL FINES THAT MAY BE LEVIED ON THE AIRPORT FOR SAFETY/SECURITY VIOLATION IN CONNECTION WITH THE ACCESS GATE OR THE CONTRACTOR'S ACTIVITIES SHALL BE PAID BY THE CONTRACTOR. THE FAA OR AIRPORT MAY ASSESS A FINE DEPENDING ON THE SERIOUSNESS OF THE INFRACTION.

- PERMITS, LICENSES, AND TAXES.** The Contractor shall procure all permits and licenses, pay all charges, fees, and taxes, and give all notices necessary and incidental to the due and lawful execution of the work. Retain copies of permits and licenses at the Site and observe and comply with all regulations and conditions of the permit or license.
- PROTECTION AND RESTORATION OF PROPERTY AND LANDSCAPE.** The Contractor shall be responsible for the preservation of all public and private property, and shall protect carefully from disturbance or damage all land monuments and property markers until the Engineer has witnessed or otherwise referenced their location and shall not move them until directed. The Contractor shall be responsible for all damage or injury to property of any character, during the execution of the work, resulting from any act, omission, neglect, or misconduct in manner or method of executing the work, or at any time due to defective work or materials, and said responsibility shall not be released until the project has been completed and accepted. When or where any direct or indirect damage or injury is done to public or private property by or on account of any act, omission, neglect, or misconduct in the execution of the work, or in consequence of the nonexecution thereof by the Contractor, the Contractor shall restore, at his or her own expense, such property to a condition similar or equal to that existing before such damage or injury was done, by repairing, or otherwise restoring as may be directed, or the Contractor shall make good such damage or injury in an acceptable manner.
- RESPONSIBILITY FOR DAMAGE CLAIMS.** The Contractor shall indemnify and save harmless the Engineer and the Owner and their officers, and employees from all suits, actions, or claims, of any character, brought because of any injuries or damage received or sustained by any person, persons, or property on account of the operations of the Contractor; or on account of or in consequence of any neglect in safeguarding the work; or through use of unacceptable materials in constructing the work; or because of any act or omission, neglect, or misconduct of said Contractor; or because of any claims or amounts recovered from any infringements of patent, trademark, or copyright; or from any claims or amounts arising or recovered under the "Workmen's Compensation Act," or any other law, ordinance, order, or decree. Money due the Contractor under and by virtue of his or her contract considered necessary by the Owner for such purpose may be retained for the use of the Owner or, in case no money is due, his or her surety may be held until such suits, actions, or claims for injuries or damages shall have

been settled and suitable evidence to that effect furnished to the Owner, except that money due the Contractor will not be withheld when the Contractor produces satisfactory evidence that he or she is adequately protected by public liability and property damage insurance.

- THIRD PARTY BENEFICIARY CLAUSE.** It is specifically agreed between the parties executing the contract that it is not intended by any of the provisions of any part of the contract to create for the public or any member thereof, a third-party beneficiary or to authorize anyone not a party to the contract to maintain a suit for personal injuries or property damage pursuant to the terms or provisions of the contract.

- CONTRACTOR'S STAGING AREAS.** This area must be agreed upon with CMA Director. Contractor Working hours and parking areas must be coordinated with the Airport.

- Badging /Escorting requirements; proposed construction area is considered a restricted area.

CLEANING DURING CONSTRUCTION

The Contractor shall thoroughly visually inspect the area for foreign object debris (FOD), and remove any such FOD that is found. This FOD inspection and removal shall be considered incidental to the pay item of which it is a component part

A. Provide positive methods to minimize raising dust from construction operations and provide positive means to prevent air-borne dust from discharging into the atmosphere. Control dust and dirt from demolition, cutting, and patching operations.

B. Clean the Project as Work progresses and dispose of waste materials, keeping the Site free from accumulations of waste or rubbish. Provide containers on Site for waste

collection. Do not allow waste materials or debris to blow around or off of the Site. Control dust from waste materials. Transport waste materials with as few handlings as possible.

C. Comply with Laws and Regulations. Do not burn or bury waste materials. Remove waste materials, rubbish and debris from the Site and legally dispose of these at public or private disposal facilities.

D. Provide a final cleaning to thoroughly clean the entire Site and make ready for acceptance.

- Form FAA 7460-1 – NOTICE OF PROPOSED CONSTRUCTION OR ALTERATION <https://www.faa.gov/forms/index.cfm/go/document.information/documentID/186273>

- Coordination with Development Services – Review & Construction Permits Requirements

LOCKOUT/ TAGOUT PROCEDURES

This work shall consist of lockout/tagout procedures in accordance with the design and details shown in the plans and in compliance with specification documents & Federal, State & Local Electrical and NFPA codes.(OSHA)

- List of the Standards includes, but is not limited to the applicable sections of 29 CFR 1926, and the National Electric Code (NEC or NFPA 70)
- Contractor shall utilize the most current editions of standards, which are current at time of bid and as recognized by the Authority Having Jurisdiction for the respective standard.

LOCKOUT/ TAGOUT PROCEDURES- COORDINATION WITH CMA ELECTRICIAN.

The Contractor shall replace or repair any cable or utility service that has been damaged by the Contractor during this work to the satisfaction of the owner of the cable or utility at no additional cost to the Owner.

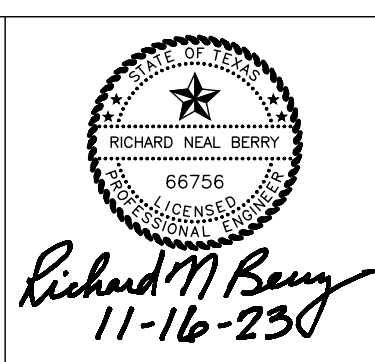
CABLE AND UTILITY COORDINATION.

The existing and the proposed locations of electrical cable are approximate. The Contractor shall be responsible for field locating and identifying the existing electrical circuits to determine their exact routing. The Contractor shall also be responsible for maintaining the electrical systems in a working condition until the new electrical circuits have been installed and tested.

The Contractor shall proactively and expeditiously accomplish this cable identification work prior to performing any modifications to the electrical circuits. Coordinate identification work with the Owner and make all corrections, additions, etc. on the as-built drawings.

Cable and utilities exist within and adjacent to the limits of construction. An attempt has been made to locate these cables and utilities on the Plans. All existing cable and utilities may not be shown on the Plans and the location of the cables and utilities shown may vary from the location shown on the Plans. Prior to beginning of any type of work, the Contractor shall contact the airport maintenance, and other organizations as required and make arrangements for the location of the utilities. The Contractor shall maintain the cable and utility location markings until they are no longer required.

DESIGNED BY	CDS		
DRAWN BY	PB		
CHECKED BY	RNB		
REVIEWED BY	RNB		
DATE	11-16-2023		
NO	DATE	REVISION	BY



GENERAL NOTES & SPECIFICATIONS

COMMERCE MUNICIPAL AIRPORT
FUEL SYSTEM RENOVATION
1755 SH 50, Commerce, Texas 75428

SHEET NO.	8
OF	8 SHEETS
FILE NO.	120192

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