



# Engineering Work Order

**JOB TITLE:** FIREWATER PUMP BUILDING (STRUCTURAL) **REV.** 0

**TURNAROUND**       **ROUTINE**       **PROJECT/CONTRACT**       **EMERGENCY**

**AREA/UNIT:** UTILITIES / FIREWATER PUMP      **CW #:** CW-056704

**EQUIPMENT:** BUILDING      **MOC #:** 25-015

**SERVICE:** FIREWATER PUMP BUILDING      **WO#:** 10187903

REVIEW AND APPROVALS			
<b>ENGINEER</b> <small>Required Approval</small>	Ben Chauvin	FOJX	
	SIGNATURE	CAI	DATE
<b>OPERATION SPECIALIST</b> <small>Required Approval</small>	Joe Giglio	GIGL	
	SIGNATURE	CAI	DATE
<b>2<sup>ND</sup> LEVEL ENGINEERING REVIEW</b> <small>Required Approval</small>	Jeff Posey	KHZE	
	SIGNATURE	CAI	DATE
<b>OPERATIONS ASSISTANT</b> <small>Required Approval</small>	Melissa Burekhartt	MPFV	
	SIGNATURE	CAI	DATE
<b>FIXED EQUIPMENT INSPECTOR</b> <small>Optional Reviewer (Required for ASME Section VIII code work and any pressure vessel welding, grinding, cutting, or modification)</small>			
	SIGNATURE	CAI	DATE
<b>MAINTENANCE REPRESENTATIVE</b> <small>Optional Reviewer (Required for T/A)</small>			
	SIGNATURE	CAI	DATE



## ***WORK ORDER TASK INSTRUCTIONS***

**Job Title:** FIREWATER PUMP BUILDING (STRUCTURAL)

**CW #:** CW-056704

**MOC Number:** 25-015

**Engineer:** Ben Chauvin

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**Please Print this Package in Color**

### **Section 1: Background and Scope**

#### **Background:**

The existing firewater pump building requires replacement. This project will demolish the existing structure and replace it with a new pump building structure. Electrical and Instrumentation will be detailed in a separate EWO.

#### **Scope:**

Contractor to demolish the existing pump building structure. Contractor to design, detail, fabricate and install a new pump building structure. See full scope of work under *Work Description*.

#### **Work by others:**

- If scaffolding is determined to be required, it will be provided by Iberville.
- Pump motor base modifications will be by others.

#### **Contractor:**

- **Contractor** shall provide all materials, utilities, tools, construction equipment, NDE per NDE Critical Task Sign-Off and Weld Maps, labor, including COMPANY authorized fire watch, supervision and inspection, and all items of a consumable nature that are required for construction.
- **Contractor** work includes, but is not limited to, this specification, including the drawings and other attachments.
- This work shall be done in a planned manner in accordance with operating requirements. **Contractor** shall review the construction progress with the Construction Supervisor to ensure the **Contractor** is able to do the work without causing undue interference with the Operating Department. Operations may require access to the firewater pump during building construction.
- If scaffolding is determined to be required, it will be provided by Iberville.
- **Contractor** shall provide completed QC documentation when applicable.
- Bids will be issued as a **Lump Sum** amount.
- Bid amount must be broken down using attached **Accounting Itemized List**.
- Schedule must be included in bid.
- Bids are due back to **ben.chauvin@chevron.com**

### **Section 2: Materials**

- 2.1** All material required for this EWO shall be ordered by the **Contractor**.  
**2.1.1** Reference attached drawing package.

### **Section 3: Work Description**

#### **Design Work:**

- Design new fire water pump building per the attached drawings:
- Follow applicable specifications:
  - CIV-SU-6001-E.1 – Design of Buildings (Industrial Building)
  - PIP ARS13120 – Pre-Engineered Metal Buildings Specification
  - CIV-DU-5009 – Structural Design Criteria
  - PIP ARS08111 – Standard Steel Doors and Frames Supplier Specification
  - PIP ARS08710 – Standard Steel Door Hardware Supplier Specification
  - MBMA’s Metal Building System Manual
- Design Loads shall be per ASCE 7, latest edition and as noted below.
  - Roof live load 20 psf (minimum)
  - Wind Speed, V = 158 mph
  - Risk Category III
  - Exposure C
- **Contractor** shall submit shop/fabrication drawings stamped by the Contractor’s design engineer of record to **Owner** for approval.
- **Contractor** shall submit product data sheet to **Owner** for approval for the following:
  - Swinging Personnel Doors
  - Roll Up Door
  - Fixed Louvers
- **Contractor** shall submit design calculations for building that are stamped by a licensed professional engineer registered in the state of Louisiana.

#### **Demolition Work:**

- Demolish existing structural steel per the attached drawings:
  - **NOTE:** Field-verify all dimensions.
  - Remove existing building structure by unbolted columns and fully removing from existing concrete deck. Remove and clean grout from top of concrete surface to receive new building.
  - Contractor shall take care not to damage existing structure and items that are to remain. Any damages shall be repaired by the Contractor at no cost to the Owner.

#### **Prefabrication Work:**

- Fabricate structural steel per the attached drawings and **Contractor** designed and detailed pump building drawings
- **NOTE:** Field-verify all dimensions.

**Please coordinate with Operations to perform the installation of the building:**

- Iberville to provide scaffolding as required for structural work (if required).
- **Contractor** to install new building enclosure per attached drawings and contractor designed and detailed building drawings.
- **Contractor** shall determine proper work sequence and shall provide temporary structural bracing as required during construction.
- **Contractor** designed and detailed pump building drawings
- Contractor to apply coating as stated in *Section 4: Coating and Insulation*
- Provide all completed QC paperwork to QC Coordinator and Construction Rep.

**Section 4: Coating and Insulation**

- Coating:

Dwg. No.	Description	Coating System	Topcoat Color
COM-PU-6234	Hot Dipped Galvanizing	N/A	N/A
<u>Additional Instructions:</u> All Structural Steel shall be Hot Dipped Galvanized All exterior surfaces to be Galvalume coated (Tan Color)			

**Appendix & Reference Docs:**

- The following supporting documents are attached to this package:

Name	Description
MD-25013-001	CIVIL/STRUCTURAL DRAWING INDEX AND VICINITY MAP
MD-25013-002	CIVIL/STRUCTURAL GENERAL NOTES
MD-25013-700	CIVIL/STRUCTURAL FIREWATER ENGINE AND PUMP GENERAL ARRANGEMENT PLAN
MD-25013-701	CIVIL/STRUCTURAL FIREWATER ENGINE AND PUMP ELEVATION
MD-25013-702	CIVIL/STRUCTURAL FIREWATER ENGINE MOUNT AND DIESEL TANK FRAMING DEMO
MD-25013-703	CIVIL/STRUCTURAL DIESEL TANK SUPPORTS PLAN, SECTION & DETAILS
MD-25013-704	CIVIL/STRUCTURAL FIREWATER ENGINE MOUNT PLAN, ELEVATION, AND DETAILS
MD-25013-705	CIVIL/STRUCTURAL FIREWATER PUMP BUILDING DEMO
MD-25013-706	CIVIL/STRUCTURAL FIREWATER PUMP BUILDING ELEVATIONS
MD-25013-707	CIVIL/STRUCTURAL FIREWATER PUMP BUILDING ROOF PLAN

- The following documents are not attached to this package but are available in CVX information databases. Alternatively, they may be supplied upon request.

<b>Name</b>	<b>Description</b>
COM-PU-6234	Hot Dipped Galvanizing
CIV-SU-6001	Design of Buildings
CIV-DU-5009	Structural Design Criteria

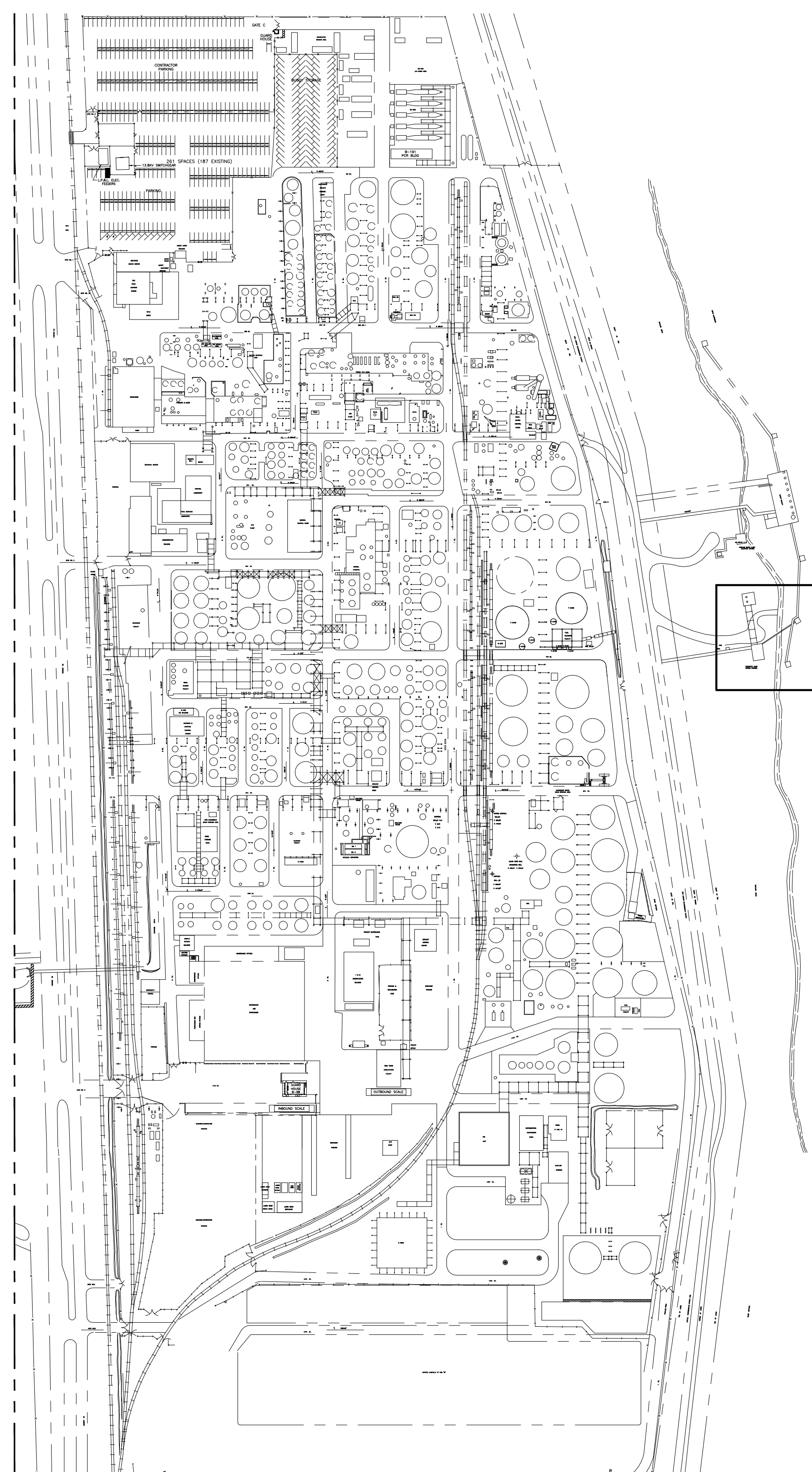
# Accounting Itemized List

COST

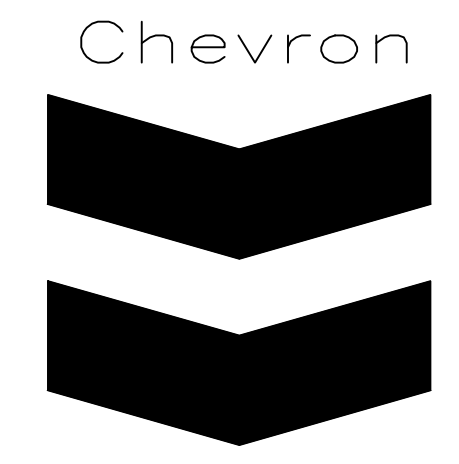
ITEM NO.	DESCRIPTION	NAME OF SUB-CONTRACTOR (if used)	MAN HOURS	MATERIAL \$	LABOR \$	EQUIPMENT RENTAL/ OTHER \$	TAXES INCLUDED \$	SUBTOTAL \$
1	Civil Demolition							
2	Piping Demolition							
3	Structural Demolition							
4	Electrical Demolition							
5	Mechanical Equipment Demolition							
6	Excavation							
7	Civil Construction							
8	Piping Construction							
9	Structural Steel Construction							
10	Electrical Construction							
11	Mechanical Equipment Construction							
12	Scaffolding	By Others						
13	Fire watch/Hole watch							
14	Radiograph							
15	Hydrotesting							
16	Steam Tracing							
17	Insulation	By Others						
18	Painting/ Coating							
19	Facility Commissioning							
20	Incentives (if applicable)							

<b>TOTAL</b>								
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PLANT NORTH



VICINITY MAP  
N.T.S.



Chevron Chemical Company  
Oronite Additives Division  
ENGINEERING DEPARTMENT OAK POINT PLANT

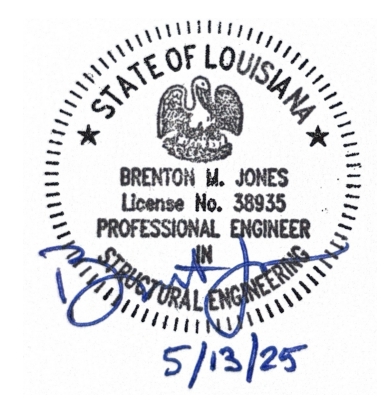
# FIREWATER PUMP BUILDING

## OAK POINT PLANT

### CIVIL/STRUCTURAL DRAWING INDEX

REVISIONS		DWG. NO.	CIVIL/STRUCTURAL DRAWING INDEX	ISSUE DATE
CURRENT	PREVIOUS			
0	A	MD-25013-001	CIVIL/STRUCTURAL DRAWING INDEX AND VICINITY MAP	05/13/25
0	A	MD-25013-002	CIVIL/STRUCTURAL GENERAL NOTES	05/13/25
0	A	MD-25013-700	CIVIL/STRUCTURAL FIREWATER ENGINE & PUMP GENERAL ARRANGEMENT PLAN	05/13/25
0	A	MD-25013-701	CIVIL/STRUCTURAL FIREWATER ENGINE & PUMP ELEVATION	05/13/25
0	A	MD-25013-702	CIVIL/STRUCTURAL FIREWATER PUMP ENGINE MOUNT & DIESEL TANK FRAMING DEMO	05/13/25
0	A	MD-25013-703	CIVIL/STRUCTURAL DIESEL TANK SUPPORTS PLAN, SECTION & DETAILS	05/13/25
0	A	MD-25013-704	CIVIL/STRUCTURAL FIREWATER PUMP ENGINE MOUNT PLAN, ELEVATION & DETAILS	05/13/25
0	A	MD-25013-705	CIVIL/STRUCTURAL FIREWATER PUMP BUILDING DEMO	05/13/25
0	A	MD-25013-706	CIVIL/STRUCTURAL FIREWATER PUMP BUILDING ELEVATIONS	05/13/25
0	A	MD-25013-707	CIVIL/STRUCTURAL FIREWATER PUMP BUILDING ROOF PLAN	05/13/25

REVISIONS	DWG. NO.	REFERENCE DRAWING DESCRIPTION
1	MD-98023-2	PIPING PLAN P-5321, P-5342 & P-5343
0	24D035-01	C18 FIRE PUMP ENGINE SHEET 1 OF 4
0	24D035-01	C18 FIRE PUMP ENGINE SHEET 2 OF 4
0	24D035-01	C18 FIRE PUMP ENGINE SHEET 3 OF 4
0	24D035-01	C18 FIRE PUMP ENGINE SHEET 4 OF 4



LOUISIANA  
PROJECT LOCATION (STATE)  
0001460  
KEYSTONE ENGINEERING REGISTRATION NO.  
BRENTON M. JONES  
ENGINEER OF RECORD  
38935  
PROFESSIONAL ENGINEER LICENSE NO.

**Keystone**  
ENGINEERING INC.  
10780C25  
PROJECT NO.  
3500 N. Causeway Blvd, Suite 1100, Metairie, LA 70002  
Corporate Headquarters:  
1100 W. Causeway Approach, Mandeville, LA 70471

CONSTRUCTION DRAWINGS		REFERENCE DRAWINGS		REVISIONS			Chevron Chemical Company Oronite Additives Division ENGINEERING DEPARTMENT OAK POINT PLANT		APPROVED FIREWATER PUMP BUILDING	
				◇	ISSUED FOR CONSTRUCTION	05/13/25	TAC	BMJ	PJM	CIVIL/STRUCTURAL DRAWING INDEX AND VICINITY MAP
				◇						OAK POINT PLANT
				◇						REV A so MD-25013-001 0

1.0 GENERAL NOTES

- 1.1. UNLESS NOTED OTHERWISE ON THE DRAWINGS, THE DESIGN, MATERIALS, FABRICATION, TESTING, AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH CONTRACT DOCUMENTS, THE FOLLOWING NOTES, AND SHALL CONFORM TO ALL APPLICABLE COMPANY STANDARDS (LATEST EDITION) AND INDUSTRY STANDARDS (LATEST EDITION UNLESS NOTED OTHERWISE), INCLUDING (BUT NOT LIMITED TO) THE FOLLOWING:
  - 1.1.1. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)
    - AISC 325 "STEEL CONSTRUCTION MANUAL"
    - AISC 360 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS"
    - AISC 303 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES"
    - AISC/RCS "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS"
  - 1.1.2. AMERICAN IRON AND STEEL INSTITUTE (AISI)
  - 1.1.3. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)
  - 1.1.4. AMERICAN WELDING SOCIETY (AWS) D1.1 "STRUCTURAL STEEL WELDING CODE"
  - 1.1.5. RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS (RCSC)
  - 1.1.6. STEEL STRUCTURES PAINTING COUNCIL (SSPC)
    - "MANUAL OF GOOD PAINTING PRACTICE"
    - "MANUAL OF SYSTEMS AND SPECIFICATIONS"
  - 1.1.7. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) PER 29 CFR PART 1910
  - 1.1.8. CIV-SU-398-Q.1 "FABRICATION OF STRUCTURAL AND MISCELLANEOUS STEEL"
  - 1.1.9. CIV-SU-581-E "SITE PREPARATION, EXCAVATION, AND BACKFILL"
  - 1.1.10. CIV-SU-850-0 "PLAIN AND REINFORCED CONCRETE"
  - 1.1.11. CIV-SU-4747-B.1 "CONSTRUCTION OF UNDERGROUND DRAINAGE SYSTEMS"
  - 1.1.12. CIV-DU-5240-B "CIVIL DESIGN CRITERIA"
  - 1.1.13. GD-Q15125 "STANDARD PAVING DETAILS"
  - 1.1.14. BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318)
    - SHOULD CODES OR STANDARDS DISAGREE, THE MORE STRINGENT REQUIREMENT WILL GOVERN.
    - REFER TO THE PROJECT SPECIFICATIONS FOR ADDITIONAL DETAILS.
- 1.2. CONTRACTOR SHALL BE RESPONSIBLE FOR SHORING EXISTING STRUCTURES AND PIPING DURING CONSTRUCTION. TYPE OF SHORING AND PROCEDURE SELECTED SHALL BE SUBJECT TO THE ENGINEER OF RECORD'S REVIEW. HOWEVER, THE STRUCTURAL ADEQUACY OF THESE SYSTEMS REMAINS THE RESPONSIBILITY OF THE CONTRACTOR.
- 1.3. CONTRACTOR SHALL TAKE REASONABLE PRECAUTIONS FOR THE SAFETY OF WORKERS AND OTHER AFFECTED PERSONS AND SHALL PROVIDE REASONABLE PROTECTION TO PREVENT DAMAGE TO ALL WORK, MATERIALS, AND EQUIPMENT.
- 1.4. ALL WORK AREAS SHALL BE KEPT NEAT, CLEAN, AND SAFE AT ALL TIMES BY THE CONTRACTOR. TRASH AND DEMOLISHED MATERIALS SHALL NOT BE ALLOWED TO ACCUMULATE AT THE SITE DURING EXECUTION OF WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL DEBRIS ON A DAILY BASIS. ALL DEBRIS SHALL BE PROPERLY AND LEGALLY DISPOSED OF. ALL ASPECTS OF JOB SITE SAFETY ARE COMPLETELY THE RESPONSIBILITY OF THE CONTRACTOR.
- 1.5. IF THE SPECIFICATIONS, DRAWINGS, CLIENT STANDARDS, OR CLIENT SPECIFICATIONS CONFLICT, CONTRACTOR SHALL CONTACT THE CLIENT AND ENGINEER OF RECORD FOR RESOLUTION.
- 1.6. CONTRACTOR SHALL NOTIFY CUSTOMER AND ENGINEER OF RECORD OF PROPOSED FIELD CHANGES PRIOR TO CONSTRUCTION MODIFICATIONS.
- 1.7. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, SITE CONDITIONS, GRADE ELEVATIONS, AND LAYOUT PRIOR TO THE START OF ANY CONSTRUCTION WORK AND REPORT ANY DISCREPANCIES TO THE CUSTOMER AND ENGINEER OF RECORD.

2.0 GENERAL STRUCTURAL STEEL NOTES

- 2.1. GENERAL
  - 2.1.1. ALL STEEL SHALL BE DESIGNED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE AISC "STEEL CONSTRUCTION MANUAL", LATEST EDITION, AND LOCAL CODES.
  - 2.1.2. ALL HANDRAIL WELDS AND OTHER ROUGH OR JAGGED EDGES SHALL BE GROUND SMOOTH.
  - 2.1.3. CONTRACTOR SHALL ENSURE THAT ALL STRUCTURES ARE ADEQUATELY SUPPORTED DURING CONSTRUCTION TO PREVENT EXCESSIVE DEFLECTIONS AND STRESSES.
  - 2.1.4. FABRICATOR SHALL PROVIDE SHOP AND ERECTION DRAWINGS. FABRICATOR SHALL ROUTE ALL SHOP AND ERECTION DRAWINGS TO CUSTOMER AND ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO FABRICATION AND ERECTION.
  - 2.1.5. APPROVAL OF SHOP DRAWINGS DOES NOT RELIEVE FABRICATOR OF RESPONSIBILITY FOR DETAIL DIMENSIONS ON SHOP AND ERECTION DRAWINGS, THE GENERAL FIT-UP OF PARTS TO BE ASSEMBLED IN THE FIELD, NOR FOR COMPLIANCE WITH THE DESIGN DRAWINGS.
  - 2.1.6. CHANGES IN DETAILS OR SUBSTITUTION OF MEMBERS SHALL NOT BE MADE WITHOUT PRIOR APPROVAL OF THE ENGINEER OF RECORD.
- 2.2. MATERIALS
  - 2.2.1. UNLESS NOTED OTHERWISE, MATERIALS SHALL MEET THE SPECIFICATIONS LISTED IN THIS SECTION.
  - 2.2.2. STRUCTURAL STEEL W & WT SHAPES SHALL MEET ASTM A992.
  - 2.2.3. OTHER STRUCTURAL STEEL ROLLED SHAPES, BARS AND FLAT PLATES LESS THAN 1/2" THICK SHALL MEET ASTM A36. PLATES 1/2" THICK OR GREATER SHALL MEET ASTM A572 GR. 50, U.N.O.
  - 2.2.4. ROUND HSS SHAPES SHALL MEET ASTM A500 GRADE C U.N.O. MINIMUM YIELD STRENGTH = 50 KSI REQUIRED.
  - 2.2.5. RECTANGULAR AND SQUARE HSS SHAPES SHALL MEET ASTM A500 GRADE C.
  - 2.2.6. ALL STIFFENERS, GUSSETS, AND END PLATES USED IN CONNECTION DETAILS SHALL BE ASTM A572 GR. 50.
  - 2.2.7. HIGH STRENGTH BOLTS SHALL MEET ASTM F3125, GRADE A325, TYPE 1.
  - 2.2.8. HEAVY HEX NUTS SHALL MEET ASTM A563, GRADE DH (GALVANIZED AND LUBRICATED).
  - 2.2.9. FLAT CIRCULAR, SQUARE OR RECTANGULAR BEVELED WASHERS SHALL MEET ASTM F436.
  - 2.2.10. MECHANICAL DIRECT TENSION INDICATORS SHALL MEET ASTM F959.
- 2.3. WELDING
  - 2.3.1. ALL CARBON STEEL WELDING AND WELD INSPECTION SHALL BE IN ACCORDANCE WITH THE LATEST REVISIONS OF AWS D1.1, CUSTOMER SPECIFICATIONS AND STANDARDS.
  - 2.3.2. ALL WELDS SHALL BE CONTINUOUS UNLESS NOTED OTHERWISE.
  - 2.3.3. ALL WELDS SHALL BE PREQUALIFIED AND MADE WITH E-70XX ELECTRODES. MINIMUM FILLET WELD SIZE SHALL BE 3/16" OR IN ACCORDANCE WITH AISC MANUAL TABLE J2.4, WHICHEVER IS GREATER.
  - 2.3.4. "CJP" IN THE TAIL OF THE WELD REFERENCE LINE SHALL REQUIRE A COMPLETE JOINT PENETRATION GROOVE WELD. JOINT PENETRATION SHALL BE AT THE CONTRACTOR'S DISCRETION.

2.4. COATINGS

- 2.4.1. ALL COATINGS SHALL BE IN ACCORDANCE WITH CUSTOMER SPECIFICATIONS, STANDARDS, DRAWINGS, AND CONTRACT DOCUMENTS. ALL STRUCTURAL STEEL SHALL BE HOT-DIPPED GALVANIZED PER ASTM.
- 2.4.2. ALL BOLTS, NUTS, AND WASHERS SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A153.
- 2.4.3. DAMAGED GALVANIZING SHALL BE REPAIRED PER ASTM A780.

2.5. GALVANIZING

- 2.5.1. UNLESS NOTED OTHERWISE, GALVANIZING SHALL MEET THE SPECIFICATIONS LISTED IN THIS SECTION.
- 2.5.2. STRUCTURAL STEEL, BOLTING MATERIALS, AND MISCELLANEOUS HARDWARE SHALL BE CLEANED AND HOT-DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM SPECIFICATIONS A123, A143, A153, A384, A386, B695, OR F-2329, WHICHEVER IS APPLICABLE AND PER INSTRUCTIONS TO BIDDERS.
- 2.5.3. FIELD CHANGES AND REPAIRS OF GALVANIZED MATERIAL SHALL BE DONE BY MEANS OF A SURFACE TOLERANT EPOXY COATING, 2 COATS OF INTERSEAL 670HS, AS MANUFACTURED BY INTERNATIONAL PAINT LTD, OR APPROVED EQUAL.

3.0 GENERAL GROUT NOTES

- 3.1. BASE PLATES FOR EQUIPMENT AND STRUCTURES SHALL BE GROUTED TO PROVIDE FULL UNIFORM LOAD TRANSFER BETWEEN THE BOTTOM OF THE PLATE AND THE CONCRETE FOUNDATION. CONCRETE SURFACES TO RECEIVE GROUT SHALL BE ROUGHENED.
- 3.2. GROUT TYPE AND INSTALLATION CRITERIA SHALL COMPLY WITH ALL EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
- 3.3. GROUT SHALL BE "FIVE STAR" NON-SHRINK, NON-METALLIC, AND CEMENTITIOUS. UNLESS NOTED OTHERWISE, MATERIAL SHALL BE APPLIED IN ACCORDANCE WITH VENDOR DRAWINGS.
- 3.4. WHERE SPECIFIED, EPOXY GROUT SHALL BE FIVE STAR EPOXY CHOCK (FIVE STAR PRODUCTS) OR APPROVED EQUAL.

4.0 ANCHOR ROD NOTES

- 4.1 UNLESS NOTED OTHERWISE, COMPONENTS OF ANCHOR ROD ASSEMBLIES SHALL BE AS FOLLOWS:
  - A. ALL ANCHOR RODS SHALL CONFORM TO ASTM F1554, GR. 55, WITH UNC-2A THREADS.
  - B. ALL NUTS SHALL CONFORM TO ASTM A563 GRADE A HEAVY HEX WITH UNC-2B THREADS.
  - C. ALL WASHERS SHALL CONFORM TO ASTM F436 WITH MINIMUM SIZE OF 2 1/2" AND THICKNESS OF 5/16".
  - D. ALL COMPONENTS SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM F2329.
- 4.2 WHERE CONCRETE THICKNESS IS LESS THAN EMBEDMENT+3", ANCHOR ROD LENGTH SHALL BE ADJUSTED FOR AN EMBEDMENT EQUAL TO 75% OF CONCRETE THICKNESS, OR MINIMUM EMBEDMENT PER EPOXY ADHESIVE MANUFACTURER, WHICHEVER IS GREATER.
- 4.3 ANCHOR RODS SHALL BE TIGHTENED TO SNUG CONDITION EXCEPT WHERE TORQUE VALUE IS SPECIFIED ON DRAWINGS OR AT THE LOCATION OF SLIDE PLATES.
- 4.4 THREADS AT THE TOP OF THE ANCHOR RODS SHALL BE COVERED IN DUCT TAPE OR OTHER SUITABLE MEANS TO KEEP THEM CLEAN AND TO PREVENT ANY DAMAGE THAT MIGHT OCCUR DURING CONSTRUCTION.
- 4.5 CONTRACTOR SHALL PROVIDE TEMPORARY SHIMS OR WEDGES FOR SETTING AND LEVELING BASE PLATES/STRUCTURES.
- 4.6 BASE PLATES/STRUCTURES SHALL BE SET AND SHIM TO THE CORRECT POSITIONS, ELEVATIONS, AND LOCATIONS AS SHOWN ON THE DESIGN DRAWINGS PRIOR TO GROUTING.
- 4.7 AFTER GROUT HAS REACHED DESIGN STRENGTH, REMOVE ALL TEMPORARY SHIMS OR WEDGES AND GROUT VOID SPACES, UNLESS NOTED OTHERWISE.
- 4.8 IF LEVELING NUTS ARE USED, LOOSEN THEM AFTER INSTALLING THE SHIMS OR WEDGES AND BEFORE GROUTING. NOTE THAT ANCHOR ROD TOP THREAD LENGTH MAY NEED TO BE ADJUSTED IF LEVELING NUTS ARE USED. ANCHOR ROD TOP THREADS SHALL NOT EXTEND INTO THE CONCRETE.
- 4.9 CONTRACTOR SHALL COORDINATE ANCHOR BOLT PATTERN WITH VENDOR DRAWINGS, FINAL DESIGN AND APPROVED SHOP DRAWINGS.

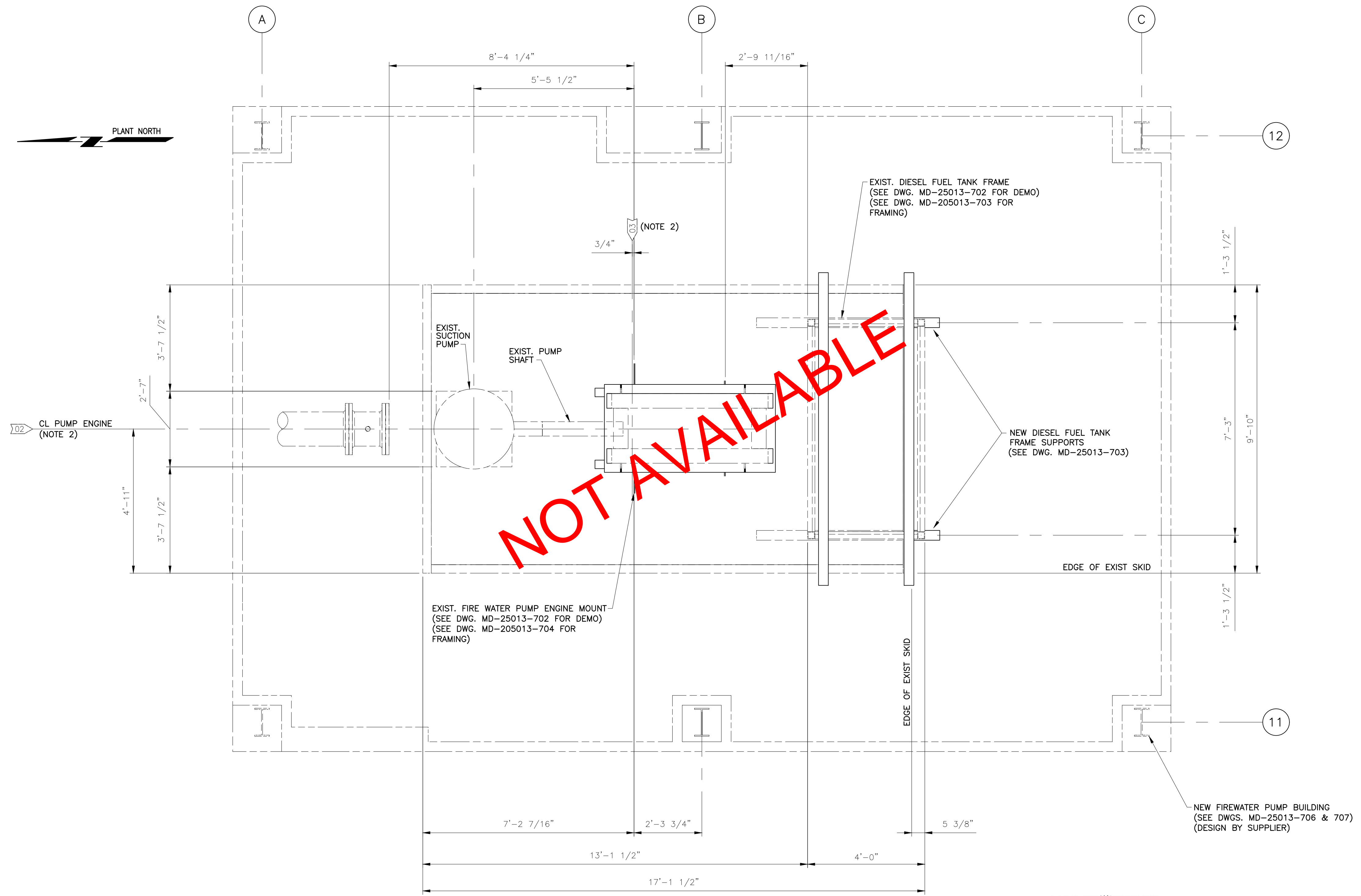
5.0 DESIGN INFORMATION

- 5.1 REFER TO ENGINEERING WORK ORDER (EWO) FOR PROJECT SPECIFICATIONS AND REQUIREMENTS
- 5.2 DESIGN LOADS SHALL BE PER ASCE 7, LATEST EDITION AND AS NOTED BELOW:
  - 5.2.1 ROOF LIVE LOAD = 20 PSF (MIN.)
  - 5.2.2 BASIC HURRICANE WIND SPEED, VLRFD = 158 MPH, VASD = 122 MPH
  - 5.2.3 BASIC STEEL ERECTION WIND SPEED, VP = 60 MPH, (1 YEAR RETURN PERIOD)
  - 5.2.4 OCCUPANCY CATEGORY = III
  - 5.2.5 WIND IMPORTANCE FACTOR, IW = N/A
  - 5.2.6 EXPOSURE CATEGORY, EC = C
- 5.3 NEW FIREWATER PUMP BUILDING SHALL BE DELEGATED DESIGN BY THE VENDOR AND THEIR LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF LOUISIANA. SUBMIT STAMPED CALCULATIONS INCLUDING COLUMN REACTIONS, AND STAMPED DRAWINGS TO THE OWNER AND ENGINEER.



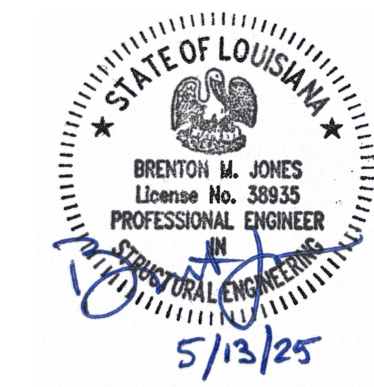
LOUISIANA	<p>3500 N. Causeway Blvd, Suite 1100, Metairie, LA 70002 Corporate Headquarters: 1100 W. Causeway Approach, Mandeville, LA 70471</p>
PROJECT LOCATION (STATE)	
0001460	
KEYSTONE ENGINEERING REGISTRATION NO.	
BRENTON M. JONES	
ENGINEER OF RECORD	10780C25
38935	PROJECT NO.
PROFESSIONAL ENGINEER LICENSE NO.	1100 W. Causeway Approach, Mandeville, LA 70471

CONSTRUCTION DRAWINGS	REFERENCE DRAWINGS	REVISIONS	<p>Chevron Chemical Company Oronite Additives Division ENGINEERING DEPARTMENT OAK POINT PLANT</p>	<p>APPROVED</p> <p>ENGR. DEPT. _____</p> <p>OPR'G. DEPT. _____</p>	<p>FIREWATER PUMP BUILDING</p> <p>CIVIL/STRUCTURAL</p> <p>GENERAL NOTES</p> <p>OAK POINT PLANT</p>																	
		<table border="1"> <tr> <td>◇</td> <td>ISSUED FOR CONSTRUCTION</td> <td>05/13/25</td> <td>TAC</td> <td>BMJ</td> <td>PJM</td> </tr> <tr> <td>◇</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>◇</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	◇	ISSUED FOR CONSTRUCTION	05/13/25	TAC	BMJ	PJM	◇						◇							
◇	ISSUED FOR CONSTRUCTION	05/13/25	TAC	BMJ	PJM																	
◇																						
◇																						
			SCALE NONE	DATE 4/25																		
			DRN. BY I. CURTIS	CH. P. MORVANT	ENGR. B. JONES																	
			A	so	MD-25013-002																	
					REV 0																	



FIRE WATER ENGINE & PUMP GENERAL ARRANGEMENT PLAN  
SCALE: 1/2"=1'-0"

- NOTES:
- FOR GENERAL NOTES, SEE DWG. MD-25013-002.
  - REFER TO VENDOR DWGS. FOR PUMP REFERENCE POINTS AND COORDINATE WITH FIELD FOR FINAL POSITION.



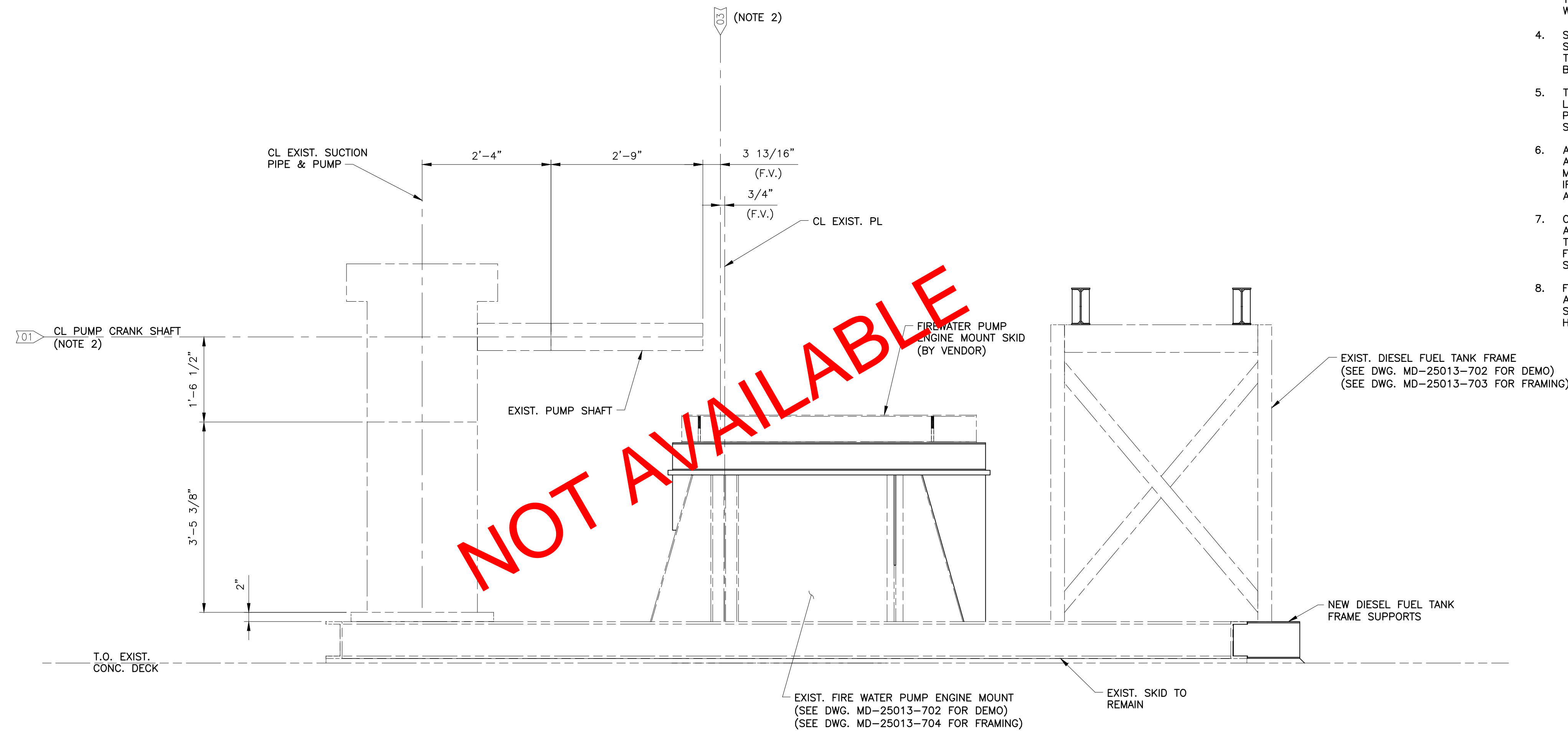
LOUISIANA  
PROJECT LOCATION (STATE)  
0001460  
KEYSTONE ENGINEERING REGISTRATION NO.  
BRENTON M. JONES  
ENGINEER OF RECORD  
38935  
PROFESSIONAL ENGINEER LICENSE NO.

**Keystone** ENGINEERING INC. 10780C25  
PROJECT NO.  
3500 N. Causeway Blvd, Suite 1100, Metairie, LA 70002  
Corporate Headquarters:  
1100 W. Causeway Approach, Mandeville, LA 70471

CONSTRUCTION DRAWINGS	REFERENCE DRAWINGS	REVISIONS	APPROVED	ENGR. DEPT.	OPR'G. DEPT.	SCALE	DATE	DRN. BY	CH.	ENGR.	PROJECT	REV
	MD-98023-2 - REV 1					NONE	4/25	I. CURTIS	P.	B. JONES	FIREWATER PUMP BUILDING	0
	24D035-01 SHT. 1 - REV 0	◇									CIVIL/STRUCTURAL	
	24D035-01 SHT. 2 - REV 0	◇	ISSUED FOR CONSTRUCTION	05/13/25	TAC	BMJ	PJM				FIRE WATER ENGINE & PUMP GENERAL ARRANGEMENT PLAN	
	24D035-01 SHT. 3 - REV 0	◇									OAK POINT PLANT	
	24D035-01 SHT. 4 - REV 0	◇									MD-25013-700	0

CONSTRUCTION SEQUENCE NOTES:

1. THE BELOW NOTES REPRESENT A PROPOSED CONSTRUCTION SEQUENCE FOR INSTALLATION OF THE PUMP ENGINE ON THE MODIFIED SUPPORT. CONTRACTOR IS FULLY RESPONSIBLE TO FIELD-VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS, AND COORDINATE LAYOUT WITH FINAL VENDOR DRAWINGS PRIOR TO CONSTRUCTION.
2. FIELD-VERIFY REQUIRED TOP OF STEEL HEIGHT FOR THE EXISTING FIREWATER PUMP ENGINE MOUNT. FIELD-CUT AND REMOVE UPPER PORTION OF THE EXISTING MOUNT AND GRIND FLUSH STEEL TO PROVIDE CONSISTENT, LEVEL AND UNIFORM TOP OF STEEL SURFACE.
3. POSITION NEW STEEL PLATE (PL 1") WITH (2) NEW W6X15 SUPPORT MEMBERS PER THE DRAWINGS AND TACK WELD TO TOP OF EXISTING FIELD-TRIMMED MOUNT. TACK-WELD SHALL BE MADE AT 6" SPACING (MINIMUM) AROUND PERIMETER OF MOUNT AND WITH SUFFICIENT FILET WELD SIZE TO TEMPORARILY SUPPORT THE SELF-WEIGHT AND ENGINE SKID WEIGHT.
4. SET ENGINE SKID ON TOP OF THE (2) NEW W6X15 SUPPORTS AND MAKE ALIGNMENT TO PUMP CRANKSHAFT. TEMPORARILY FIT-UP AND INSTALL ALL CONNECTIONS BETWEEN THE ENGINE AND PUMP TO ENSURE ALIGNMENT.
5. TAKE MEASUREMENTS AND CHECK FOR LEVEL IN BOTH LATERAL DIRECTIONS AND VERTICAL DIRECTION. CONFIRM THAT PUMP ENGINE IS INSTALLED WITHIN MANUFACTURER'S SPECIFIED TOLERANCES.
6. ARRANGE FOR PUMP ENGINE MANUFACTURER TO VISIT SITE AND CONFIRM THAT EQUIPMENT IS INSTALLED PROPERLY AND MAKE ANY NECESSARY ADJUSTMENTS TO SUIT REQUIREMENTS. IF ADJUSTMENT IS REQUIRED, REMOVE PL 1" WITH W6X15'S AND REPEAT STEPS 3-5.
7. ONCE PUMP ENGINE AND SUPPORTING PL 1" AND W6X15'S ARE PROPERLY INSTALLED AND ALIGNED, FULLY WELD OUT THE CONNECTION BETWEEN THE ENGINE MOUNT AND PL 1". FIELD MATCH-DRILL BOLT HOLES IN TOP FLANGE OF SUPPORTING W6X15'S TO RECEIVE ENGINE SKID.
8. FASTEN ENGINE SKID BASE TO SUPPORTING W6X15'S IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. BOLTS SHALL BE FULLY PRETENSIONED, HOT-DIP GALVANIZED AND HAVE DOUBLE-NUTS.



NOT AVAILABLE

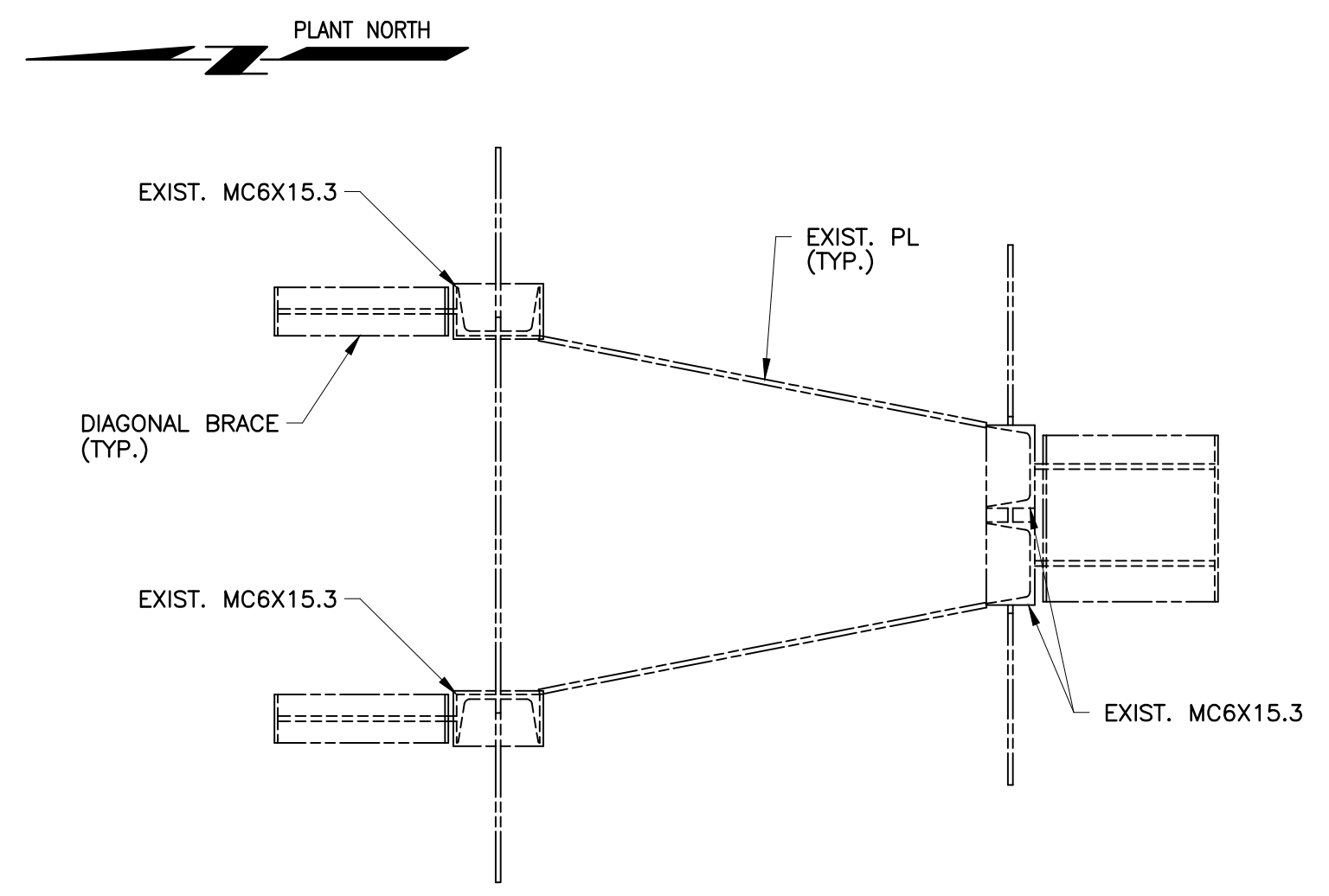
(LOOKING EAST)  
**FIRE WATER ENGINE & PUMP ELEVATION**  
 SCALE: 3/4"=1'-0"

- NOTES:
1. FOR GENERAL NOTES, SEE DWG. MD-25013-002.
  2. REFER TO VENDOR DWGS. FOR PUMP REFERENCE POINTS AND COORDINATE WITH FIELD FOR FINAL POSITION.

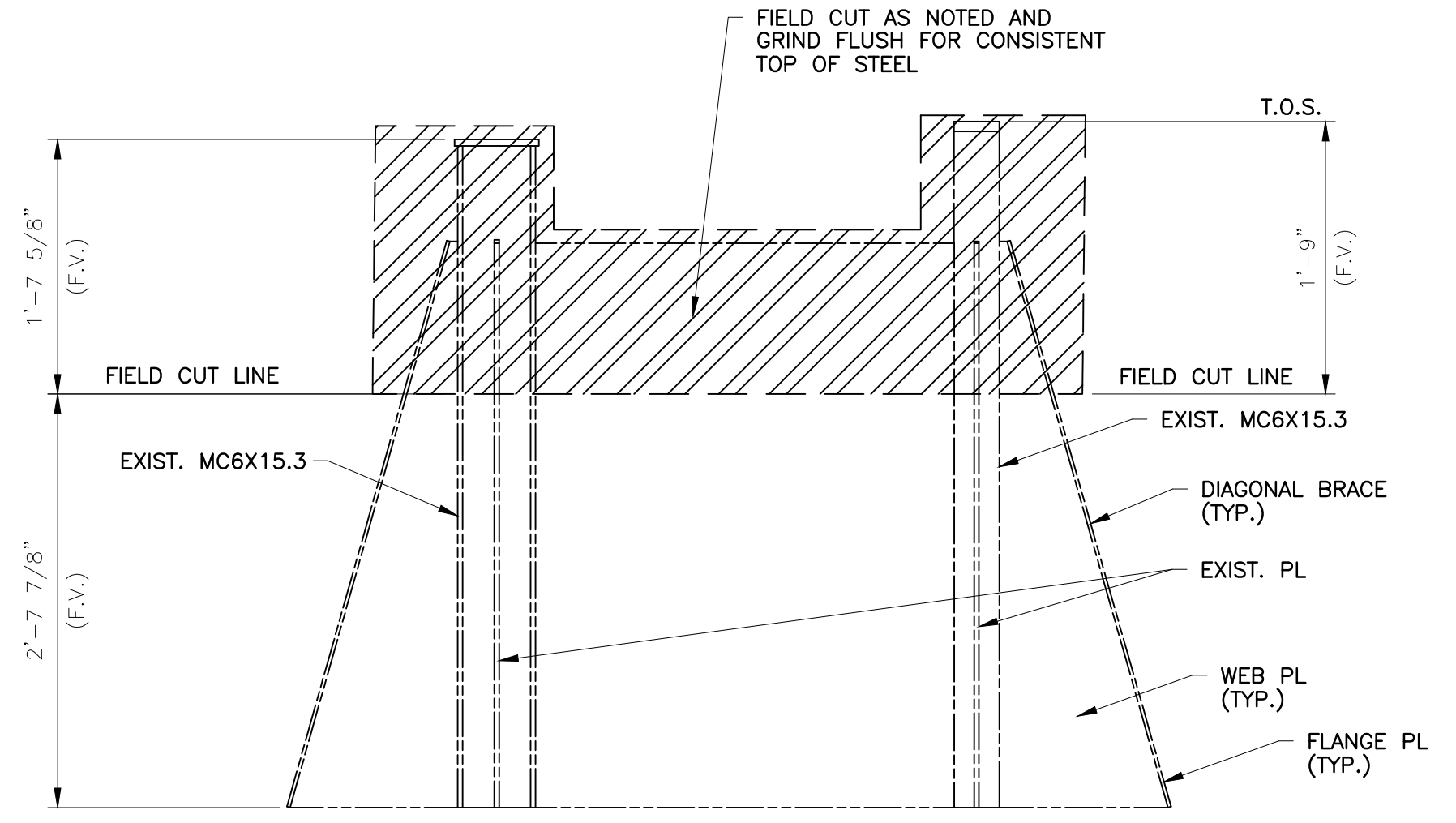


LOUISIANA PROJECT LOCATION (STATE) 0001460 KEYSTONE ENGINEERING REGISTRATION NO. BRENTON M. JONES ENGINEER OF RECORD 38935 PROFESSIONAL ENGINEER LICENSE NO.	<b>Keystone</b> ENGINEERING INC. 10780C25 PROJECT NO. 3500 N. Causeway Blvd, Suite 1100, Metairie, LA 70002 Corporate Headquarters: 1100 W. Causeway Approach, Mandeville, LA 70471
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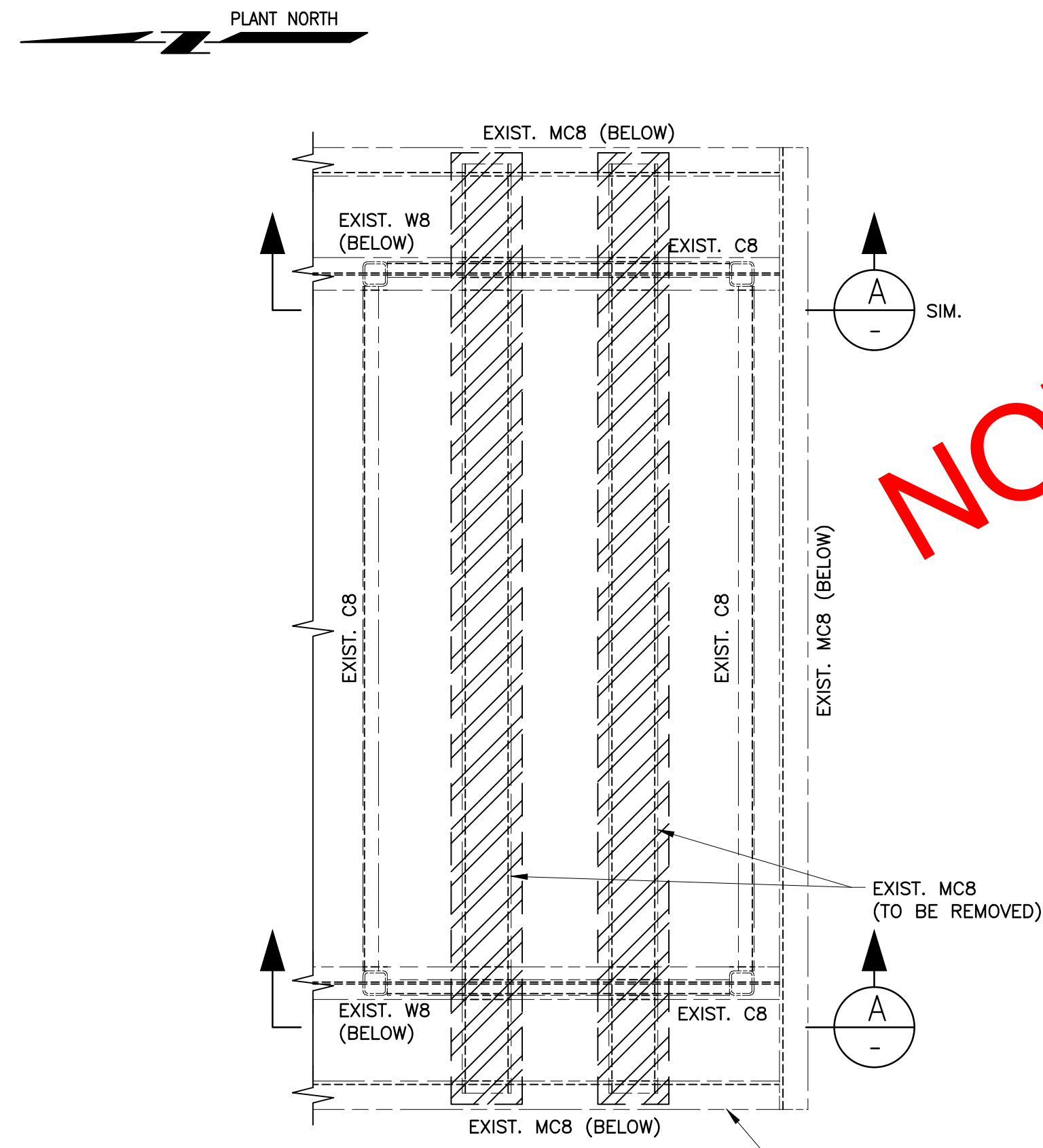
CONSTRUCTION DRAWINGS	REFERENCE DRAWINGS	REVISIONS	APPROVED	ENGR. DEPT.	OPR'G. DEPT.	REV	
	MD-98023-2 - REV 1		Chevron Chemical Company Oronite Additives Division ENGINEERING DEPARTMENT OAK POINT PLANT	FIREWATER PUMP BUILDING	CIVIL/STRUCTURAL	0	
	24D035-01 SHT. 1 - REV 0	ISSUED FOR CONSTRUCTION 05/13/25 TAC BMJ PJM					FIRE WATER ENGINE & PUMP ELEVATION
	24D035-01 SHT. 2 - REV 0						OAK POINT PLANT
	24D035-01 SHT. 3 - REV 0						M
	24D035-01 SHT. 4 - REV 0						MD-25013-701



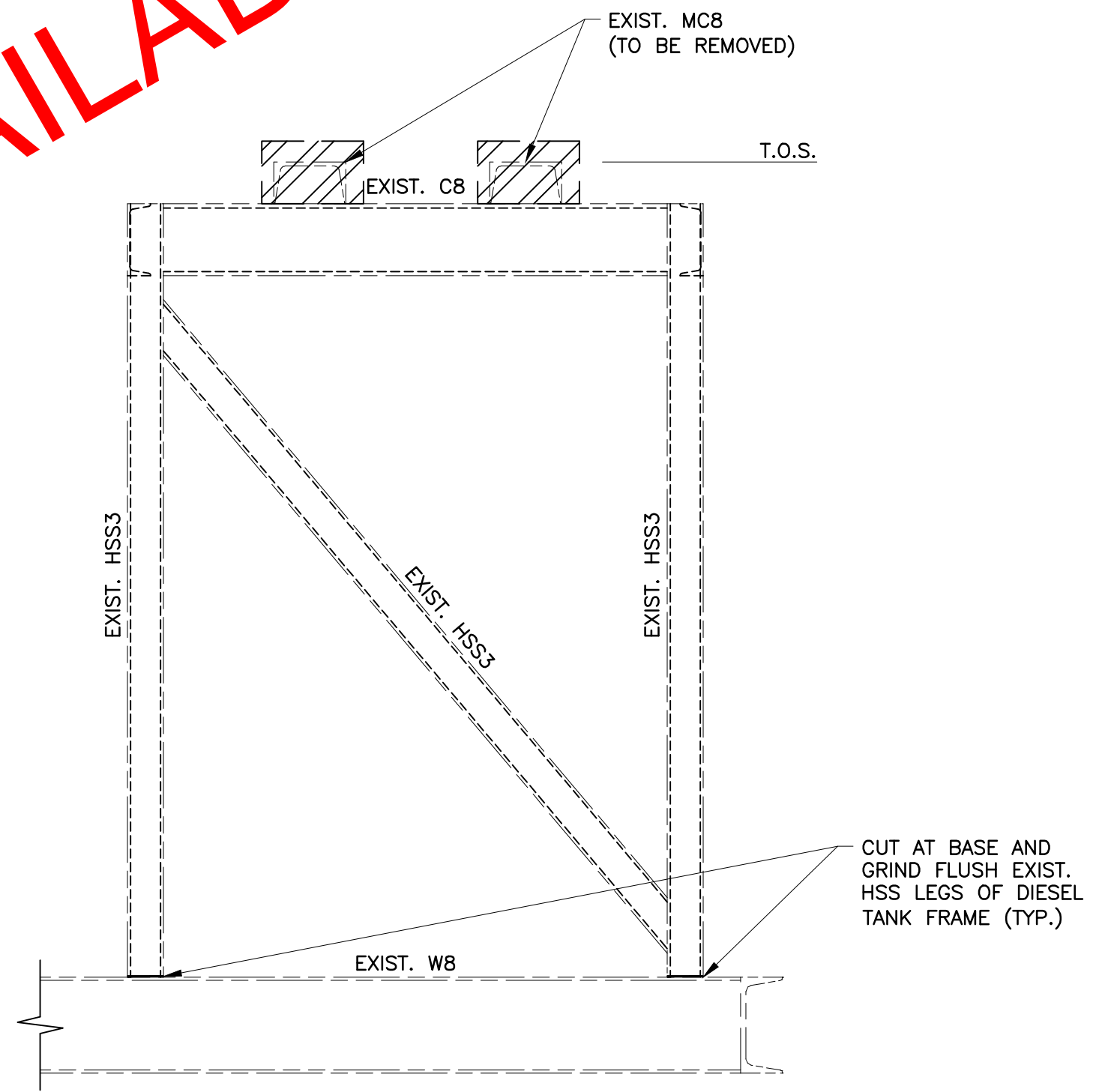
EXIST. FIREWATER PUMP  
ENGINE MOUNT DEMO PLAN @ T.O.S.  
SCALE: 1"=1'-0"



(LOOKING EAST)  
EXIST. FIREWATER PUMP  
ENGINE MOUNT DEMO ELEVATION  
SCALE: 1"=1'-0"



EXIST. DIESEL TANK  
FRAME DEMO PLAN @ T.O.S.  
SCALE: 3/4"=1'-0"

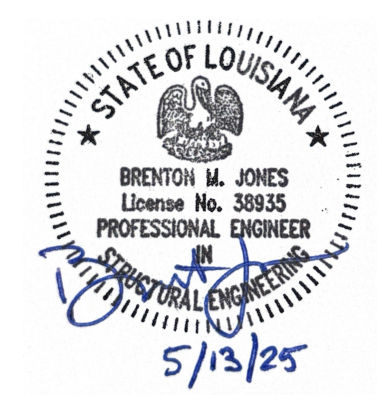


SECTION A-A  
SCALE: 1"=1'-0"

NOT AVAILABLE

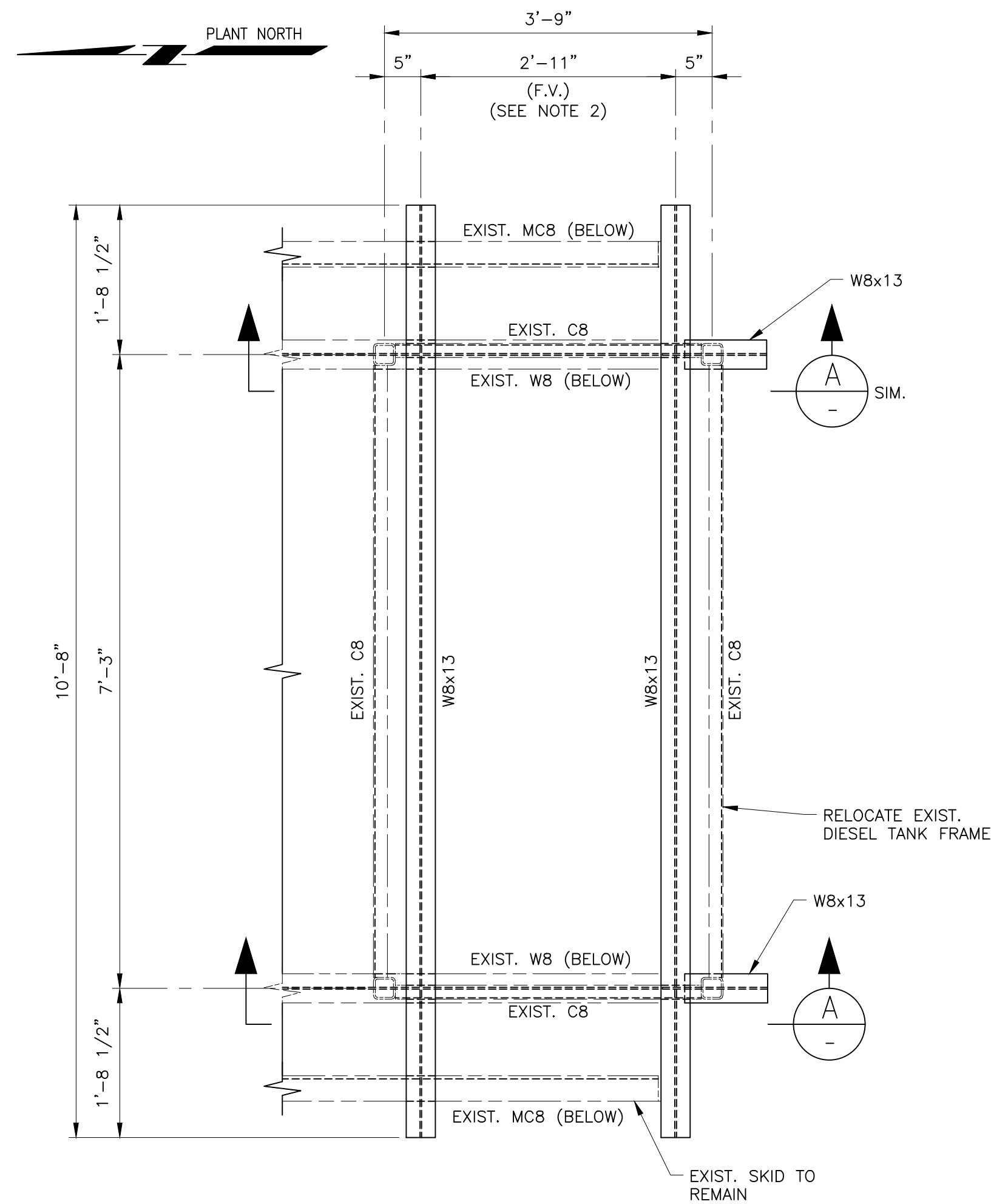
- NOTES:**
- FOR GENERAL NOTES, SEE DWG. MD-25013-002.
  - REFER TO SHEET MD-25013-701 FOR PROPOSED CONSTRUCTION SEQUENCING NOTES FOR MODIFICATIONS TO EXISTING PUMP ENGINE MOUNT AND INSTALLATION OF NEW PUMP ENGINE SKID

TO BE DEMOLISHED

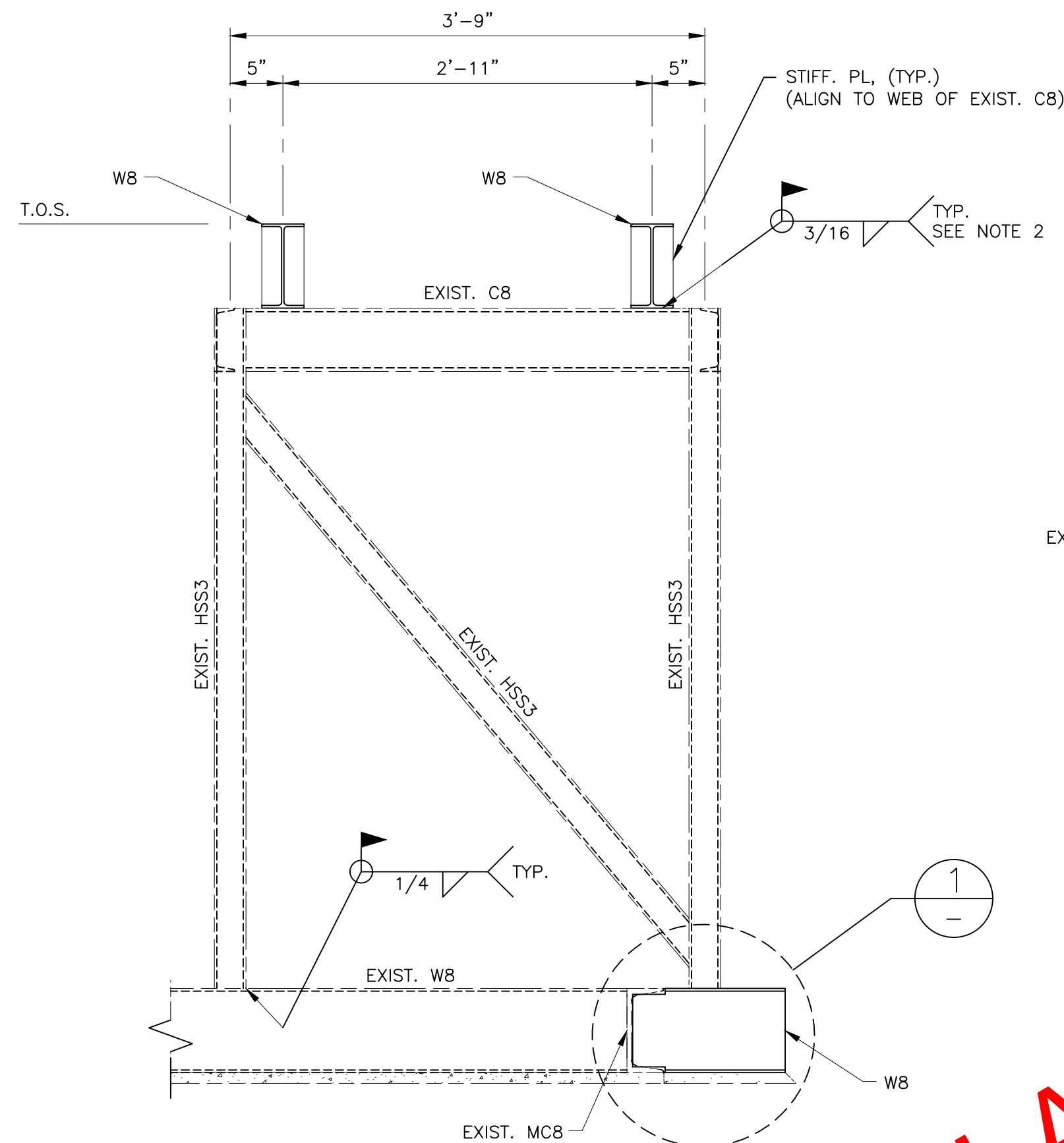


LOUISIANA PROJECT LOCATION (STATE) 0001460 KEYSTONE ENGINEERING REGISTRATION NO. BRENTON M. JONES ENGINEER OF RECORD 38935 PROFESSIONAL ENGINEER LICENSE NO.	<b>Keystone</b> ENGINEERING INC. 10780C25 PROJECT NO. 3500 N. Causeway Blvd, Suite 1100, Metairie, LA 70002 Corporate Headquarters: 1100 W. Causeway Approach, Mandeville, LA 70471
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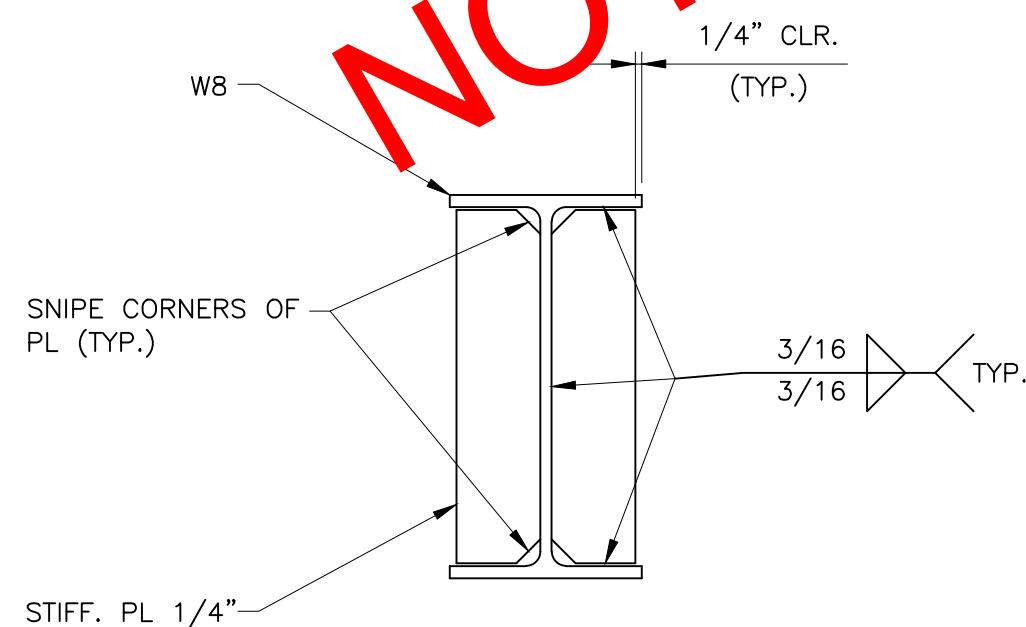
CONSTRUCTION DRAWINGS	REFERENCE DRAWINGS	REVISIONS	<b>Chevron Chemical Company</b> Oronite Additives Division ENGINEERING DEPARTMENT      OAK POINT PLANT	APPROVED ENGR. DEPT. _____ OPR'G. DEPT. _____	<b>FIREWATER PUMP BUILDING</b> CIVIL/STRUCTURAL FIREWATER PUMP ENGINE MOUNT & DIESEL TANK DEMO OAK POINT PLANT
		ISSUED FOR CONSTRUCTION    05/13/25    TAC    BMJ    PJM	SCALE: NONE      DATE: 4/25 DRN. BY: I. CURTIS      CH. P. MORVANT      ENGR. B. JONES	M      A      REV so      0	<b>MD-25013-702</b>



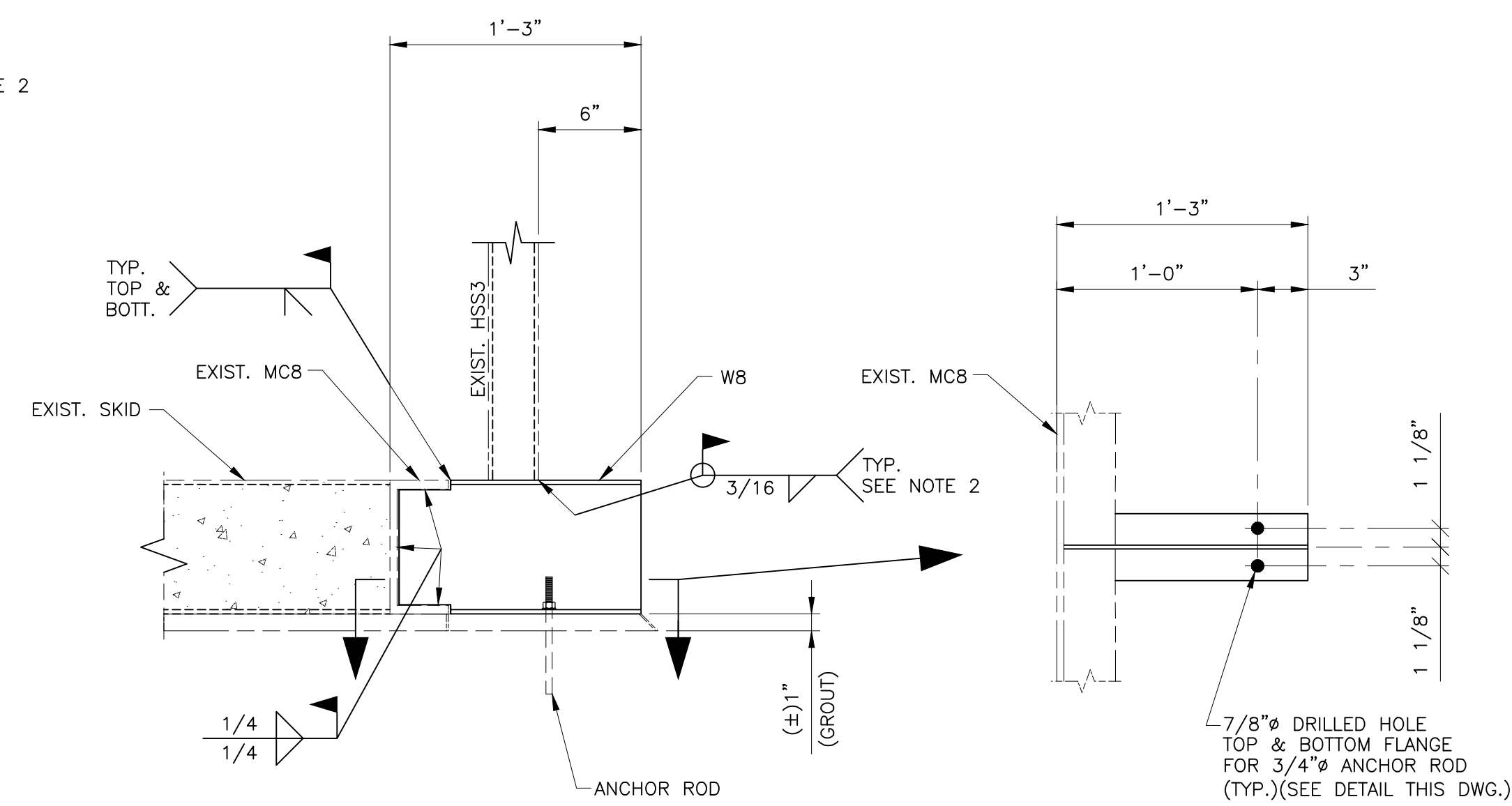
EXIST. DIESEL TANK FRAME - PLAN @ T.O.S.  
SCALE: 3/4"=1'-0"



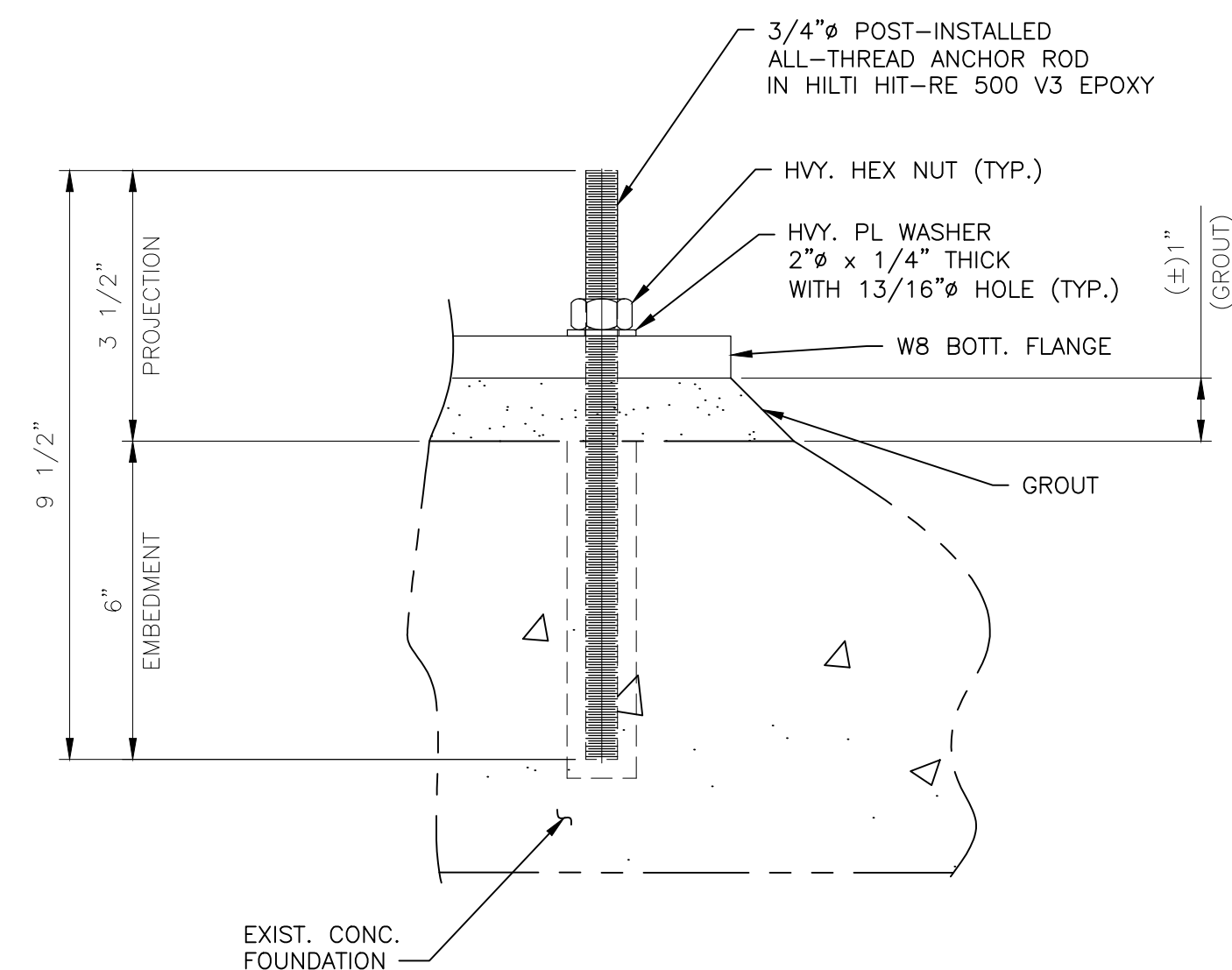
SECTION A-A  
SCALE: 1"=1'-0"



TYP. STIFF TO BEAM WELD CONNECTION DETAIL  
SCALE: N.T.S.



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



ANCHOR ROD DETAIL  
SCALE: N.T.S.

- NOTES:
- FOR GENERAL NOTES, SEE DWG. MD-25013-002.
  - COORDINATE POSITION OF W8 SUPPORT FRAMING AND ATTACHMENT OF DIESEL TANK SKID WITH THE FINAL VENDOR DRAWINGS. FIELD-VERIFY AND ADJUST AS NEEDED TO PROVIDE UNIFORM BEARING SUPPORT OF DIESEL TANK SKID WITH SUPPORTS ALIGNED TO CENTERLINE OF NEW W8 FRAMING MEMBERS.

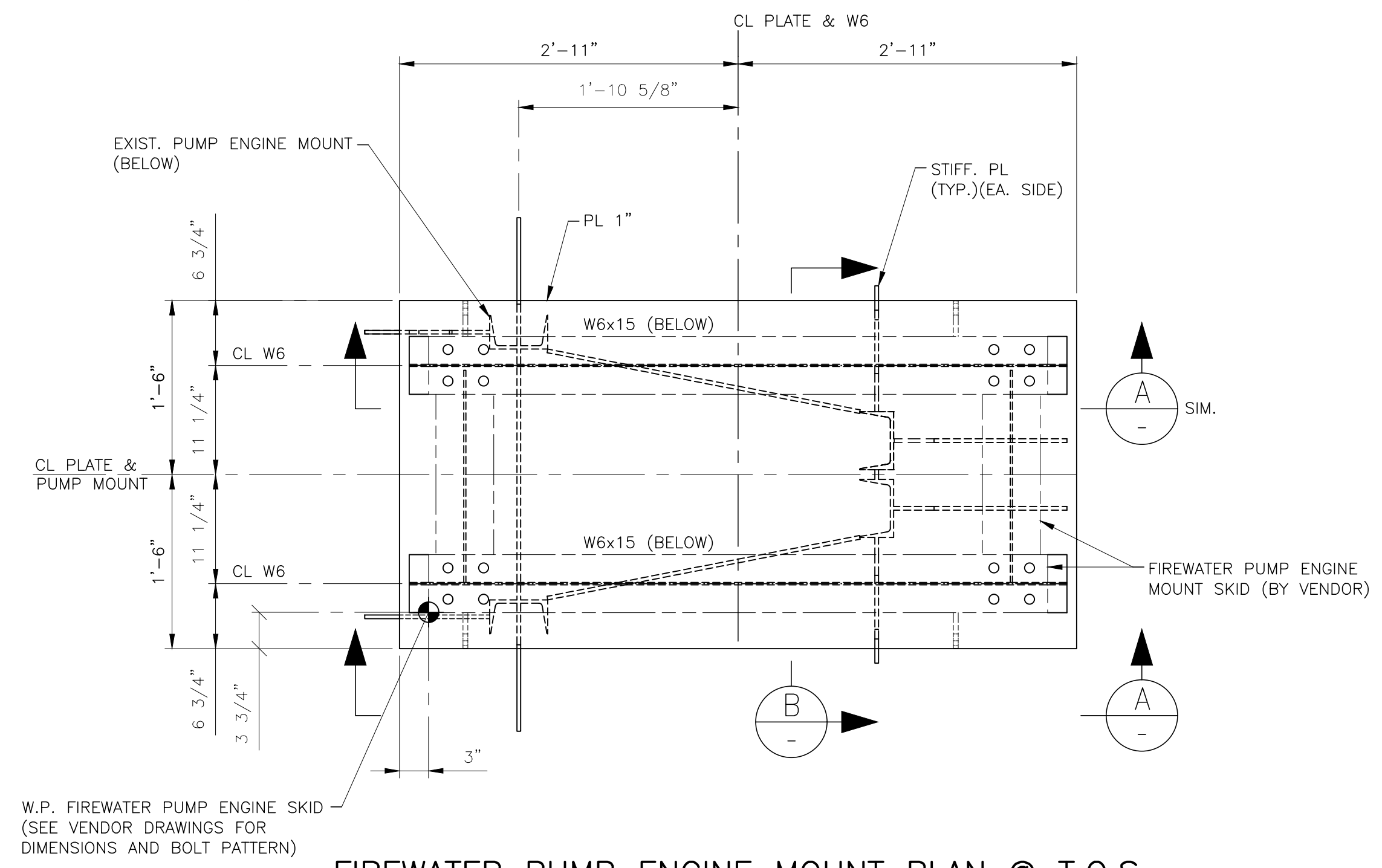


LOUISIANA  
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PROFESSIONAL ENGINEER LICENSE NO.

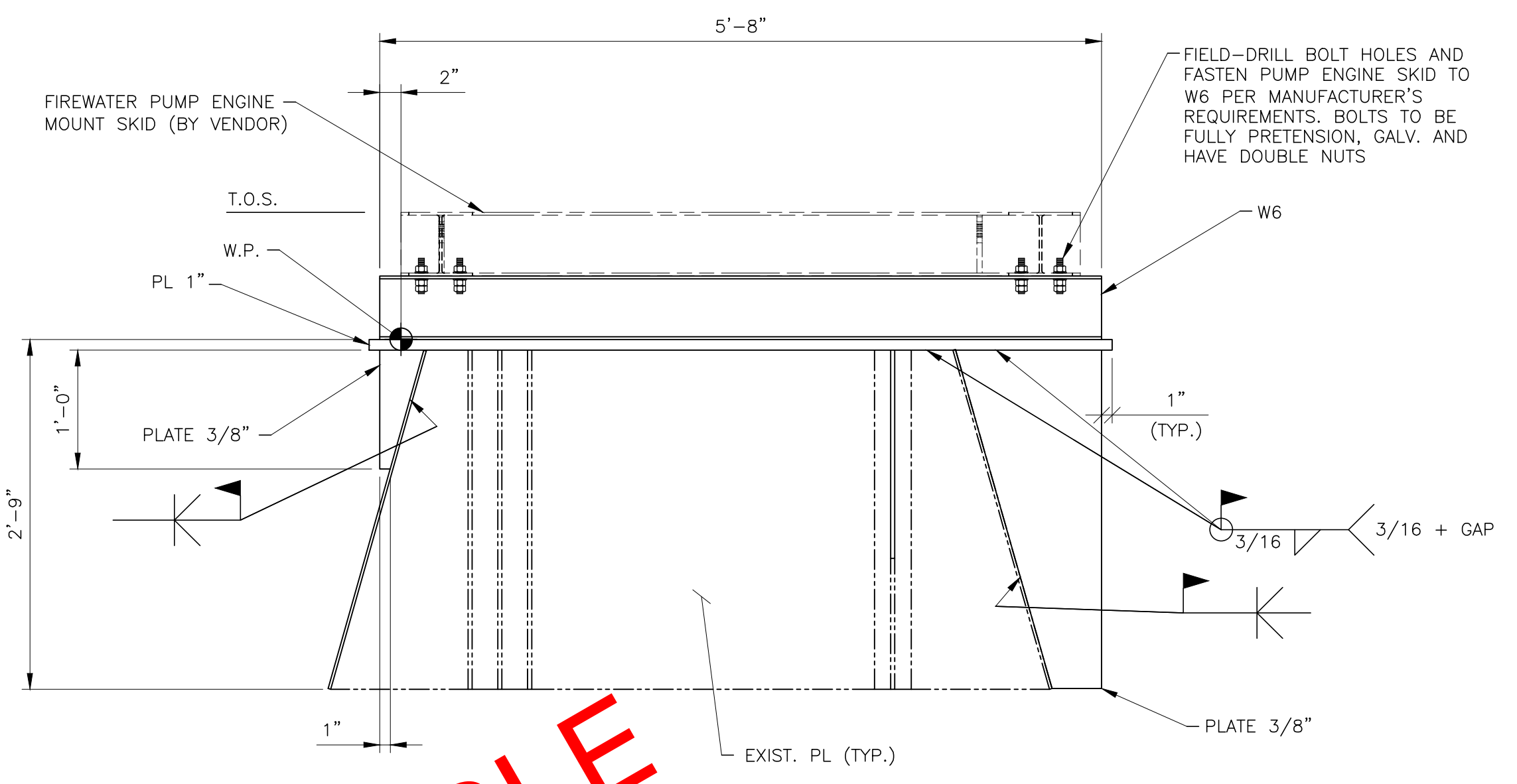
**Keystone ENGINEERING INC.**  
10780C25  
PROJECT NO.  
3500 N. Causeway Blvd, Suite 1100, Metairie, LA 70002  
Corporate Headquarters:  
1100 W. Causeway Approach, Mandeville, LA 70471

CONSTRUCTION DRAWINGS	REFERENCE DRAWINGS	REVISIONS	APPROVED	PROJECT
		ISSUED FOR CONSTRUCTION 05/13/25 TAC BMJ PJM	BRENTON M. JONES PROFESSIONAL ENGINEER	FIREWATER PUMP BUILDING
			ENGR. DEPT.	CIVIL/STRUCTURAL
			OPR'G. DEPT.	DIESEL TANK SUPPORTS PLAN, SECTION & DETAILS
				OAK POINT PLANT
			A	MD-25013-703
			so	REV 0

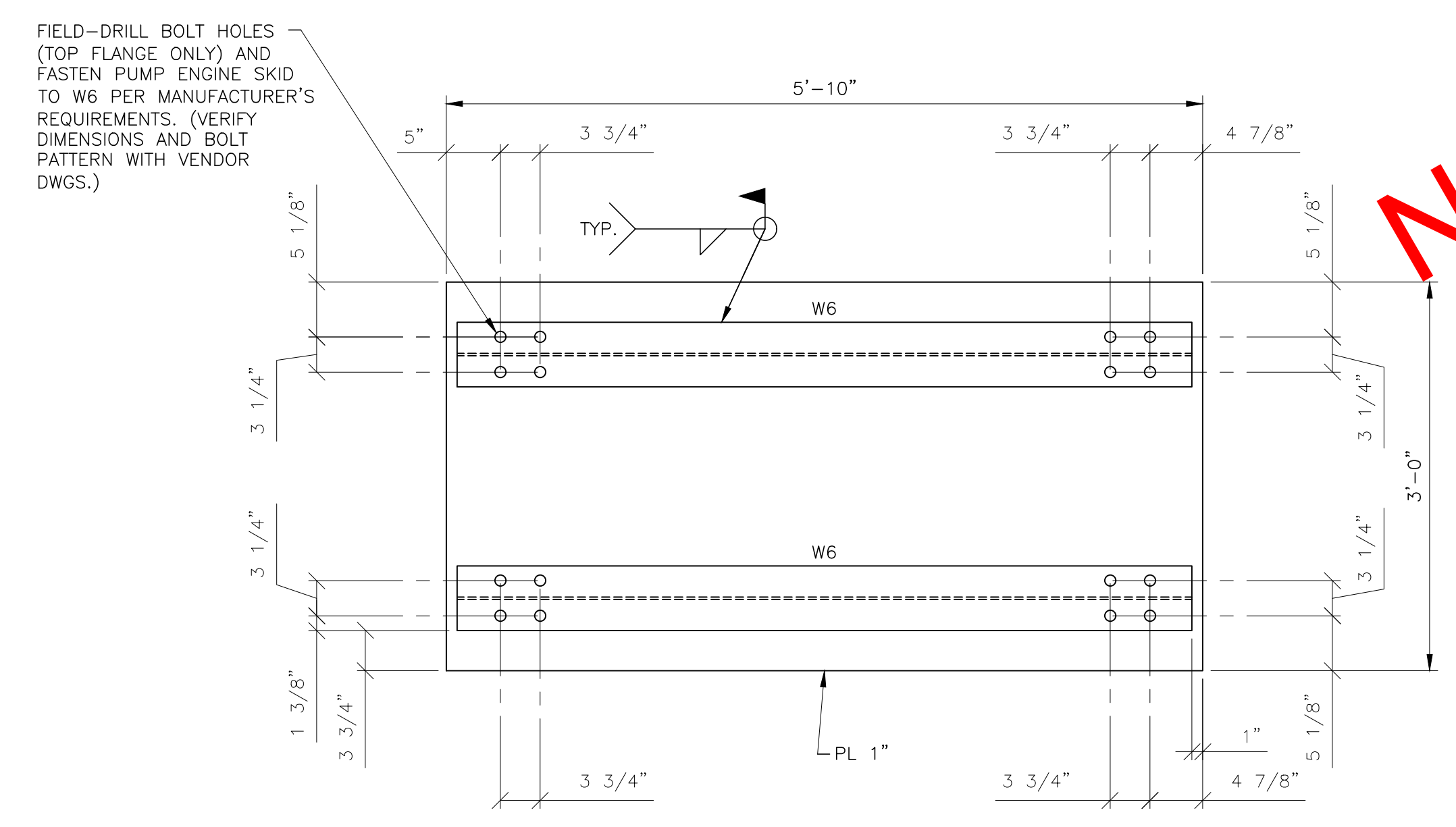
**Chevron**  
Chevron Chemical Company  
Oronite Additives Division  
ENGINEERING DEPARTMENT OAK POINT PLANT  
SCALE NONE DATE 4/25  
DRN. BY I. CURTIS CH. P. MORVANT ENGR. B. JONES



**FIREWATER PUMP ENGINE MOUNT PLAN @ T.O.S.**  
SCALE: 1"=1'-0"

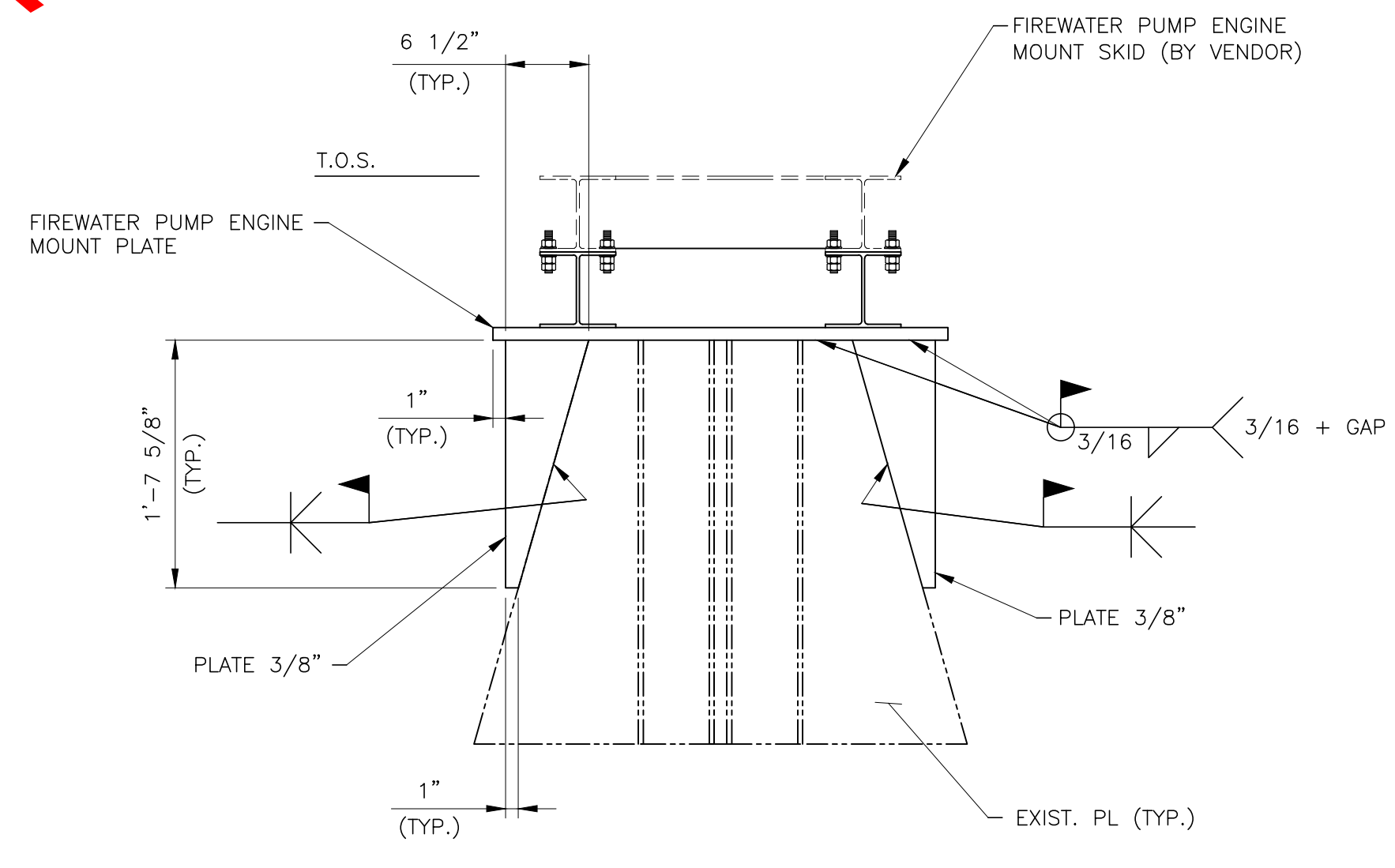


**SECTION A**  
SCALE: 1"=1'-0"

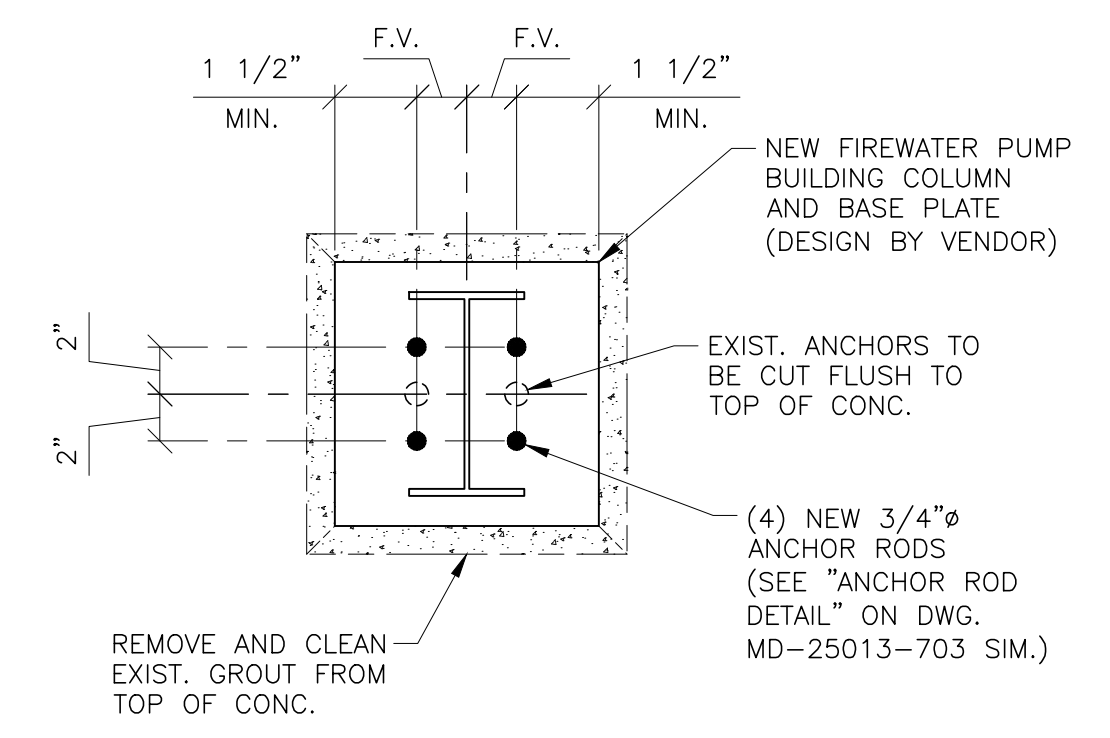


**FIREWATER PUMP ENGINE MOUNT FRAME & PLATE PLAN**  
SCALE: 1"=1'-0"

NOT AVAILABLE



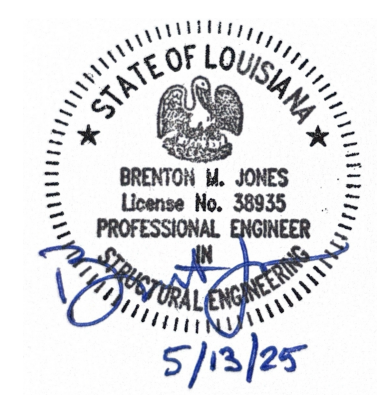
**SECTION B**  
SCALE: 1"=1'-0"



**SECTION C**  
SCALE: 1"=1'-0"

- NOTES:**
- FOR GENERAL NOTES, SEE DWG. MD-25013-002.
  - CONTRACTOR SHALL FIELD-VERIFY AND COORDINATE FINAL BOLT HOLE PATTERN OF PUMP ENGINE SKID. FIELD-DRILL HOLES IN SUPPORT PLATE AND FASTEN PER PUMP ENGINE MANUFACTURER'S REQUIREMENTS USING FULLY PRETENSIONED BOLTS AND DOUBLE NUTS.
  - REFER TO SHEET MD-25013-701 FOR PROPOSED CONSTRUCTION SEQUENCING NOTES FOR MODIFICATIONS TO EXISTING PUMP ENGINE MOUNT AND INSTALLATION OF NEW PUMP ENGINE SKID.

PUMP SKID BEAM NOT SHOWN FOR CLARITY.



LOUISIANA PROJECT LOCATION (STATE) 0001460 KEYSTONE ENGINEERING REGISTRATION NO. BRENTON M. JONES ENGINEER OF RECORD 38935 PROFESSIONAL ENGINEER LICENSE NO.	<b>Keystone</b> ENGINEERING INC. 10780C25 PROJECT NO. 3500 N. Causeway Blvd, Suite 1100, Metairie, LA 70002 Corporate Headquarters: 1100 W. Causeway Approach, Mandeville, LA 70471
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CONSTRUCTION DRAWINGS	REFERENCE DRAWINGS	REVISIONS	APPROVED	PROJECT	
	24D035-01 SHT. 1 - REV 0		 <b>Chevron Chemical Company</b> Oronite Additives Division ENGINEERING DEPARTMENT OAK POINT PLANT SCALE: NONE DATE: 4/25 DRN. BY: I. CURTIS CH. P. MORVANT ENGR. B. JONES	<b>FIREWATER PUMP BUILDING</b> CIVIL/STRUCTURAL FIREWATER PUMP ENGINE MOUNT PLAN, EL. & DETAILS OAK POINT PLANT	
	24D035-01 SHT. 2 - REV 0	ISSUED FOR CONSTRUCTION 05/13/25 TAC BMJ PJM			ENGR. DEPT.
	24D035-01 SHT. 3 - REV 0				OPR'G. DEPT.
	24D035-01 SHT. 4 - REV 0				REV
			M	MD-25014-704	



UNBOLT EXIST. COLUMN BASE PLATES FOR REMOVAL, CUT ANCHORS FLUSH TO TOP OF CONC. DECK, REMOVE EXIST. GROUT AND CLEAN TO TOP OF SURFACE OF CONCRETE TO RECEIVE NEW BUILDING COLUMNS. REFER TO SECTION A ON MD-25013-706 FOR NEW ANCHOR DETAIL

**FIRE WATER PUMP BUILDING DEMO**  
SCALE: N.T.S.

- NOTES:**
- FOR GENERAL NOTES, SEE DWG. MD-25013-002.
  - CONTRACTOR SHALL CAREFULLY DISMANTLE, REMOVE AND DISPOSE OF EXIST. FIREWATER PUMP BUILDING FROM BASE PLATE UP INCLUDING ALL STRUCTURAL STEEL, METAL PANEL, AND ANCILLARY COMPONENTS.
  - CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE EXIST. STRUCTURE AND COMPONENTS DURING PERFORMANCE OF THE WORK. ANY DAMAGE SHALL BE REPAIRED AT NO COST TOT EH OWNER.



LOUISIANA PROJECT LOCATION (STATE)	10780C25 PROJECT NO.
0001460 KEYSTONE ENGINEERING REGISTRATION NO.	3500 N. Causeway Blvd, Suite 1100, Metairie, LA 70002
BRENTON M. JONES ENGINEER OF RECORD	Corporate Headquarters: 1100 W. Causeway Approach, Mandeville, LA 70471
38935 PROFESSIONAL ENGINEER LICENSE NO.	

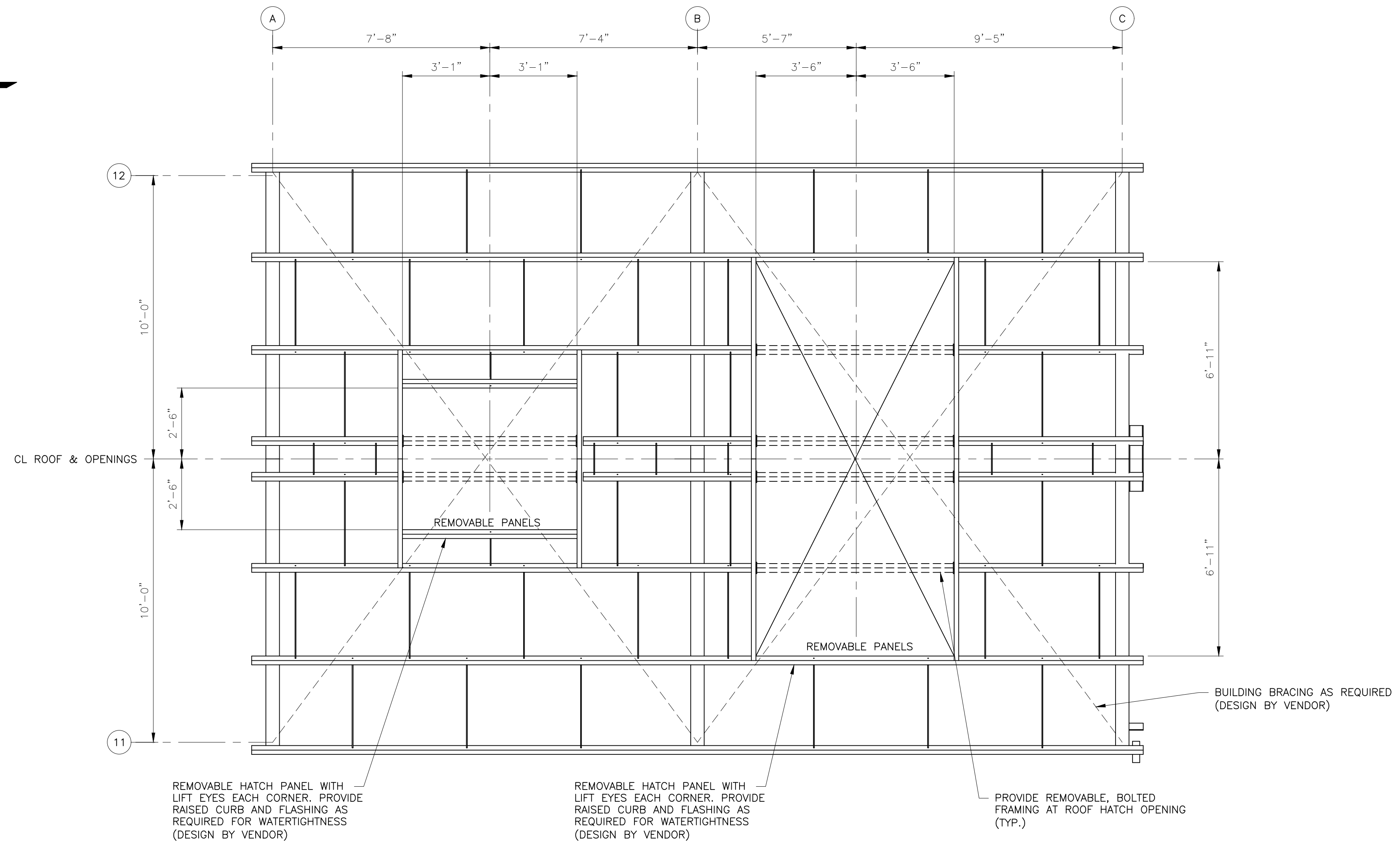
**Keystone** ENGINEERING INC.  
3500 N. Causeway Blvd, Suite 1100, Metairie, LA 70002  
Corporate Headquarters:  
1100 W. Causeway Approach, Mandeville, LA 70471

CONSTRUCTION DRAWINGS	REFERENCE DRAWINGS	REVISIONS			Chevron		Chevron Chemical Company		APPROVED		FIREWATER PUMP BUILDING	
		◇	◇	◇	ISSUED FOR CONSTRUCTION	05/13/25	TAC	BMJ	PJM			CIVIL/STRUCTURAL
		◇								ENGR. DEPT.		FIREWATER PUMP BUILDING DEMO
		◇								OPR'G. DEPT.		OAK POINT PLANT
		◇										M A so MD-25013-705 REV o

**Chevron**  
Chevron Chemical Company  
Oronite Additives Division  
ENGINEERING DEPARTMENT OAK POINT PLANT  
SCALE: NONE DATE: 4/25  
DRN. BY: I. CURTIS CH. P. MORVANT ENGR. B. JONES

APPROVED  
ENGR. DEPT.  
OPR'G. DEPT.





**FIREWATER PUMP BUILDING ROOF PLAN**  
SCALE: 3/8"=1'-0"

**NOTES:**

1. FOR GENERAL NOTES, SEE DWG. MD-25013-002.
2. CONTRACTOR AND THEIR ENGINEER ARE RESPONSIBLE FOR DESIGN AND DETAILING OF NEW FIREWATER PUMP BUILDING. REFER TO ENGINEERING WORK ORDER (EWO) FOR REQUIRED SCOPE AND APPLICABLE SPECIFICATIONS NOTED FOR DESIGN REQUIREMENTS.
3. REFER TO SECTION C ON MD-25013-704 FOR NEW BUILDING COLUMN ANCHORAGE.
4. METAL PANEL AND BUILDING ACCESSORIES (FLASHING, TRIM, ETC.) NOT SHOWN.



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CONSTRUCTION DRAWINGS	REFERENCE DRAWINGS	REVISIONS	<b>Chevron Chemical Company</b> Oronite Additives Division ENGINEERING DEPARTMENT      OAK POINT PLANT	APPROVED ENGR. DEPT. _____ OPR'G. DEPT. _____	<b>FIREWATER PUMP BUILDING</b> CIVIL/STRUCTURAL FIREWATER PUMP BUILDING ROOF PLAN OAK POINT PLANT																								
		<table border="1"> <thead> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>DATE</th> <th>TAC</th> <th>BMJ</th> <th>PJM</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ISSUED FOR CONSTRUCTION</td> <td>05/13/25</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	NO.	DESCRIPTION	DATE	TAC	BMJ	PJM	1	ISSUED FOR CONSTRUCTION	05/13/25				2						3						SCALE: NONE DRN. BY I. CURTIS      CH. P. MORVANT      ENGR. B. JONES	DATE: 4/25 REV: 0	M so MD-25013-707
NO.	DESCRIPTION	DATE	TAC	BMJ	PJM																								
1	ISSUED FOR CONSTRUCTION	05/13/25																											
2																													
3																													