



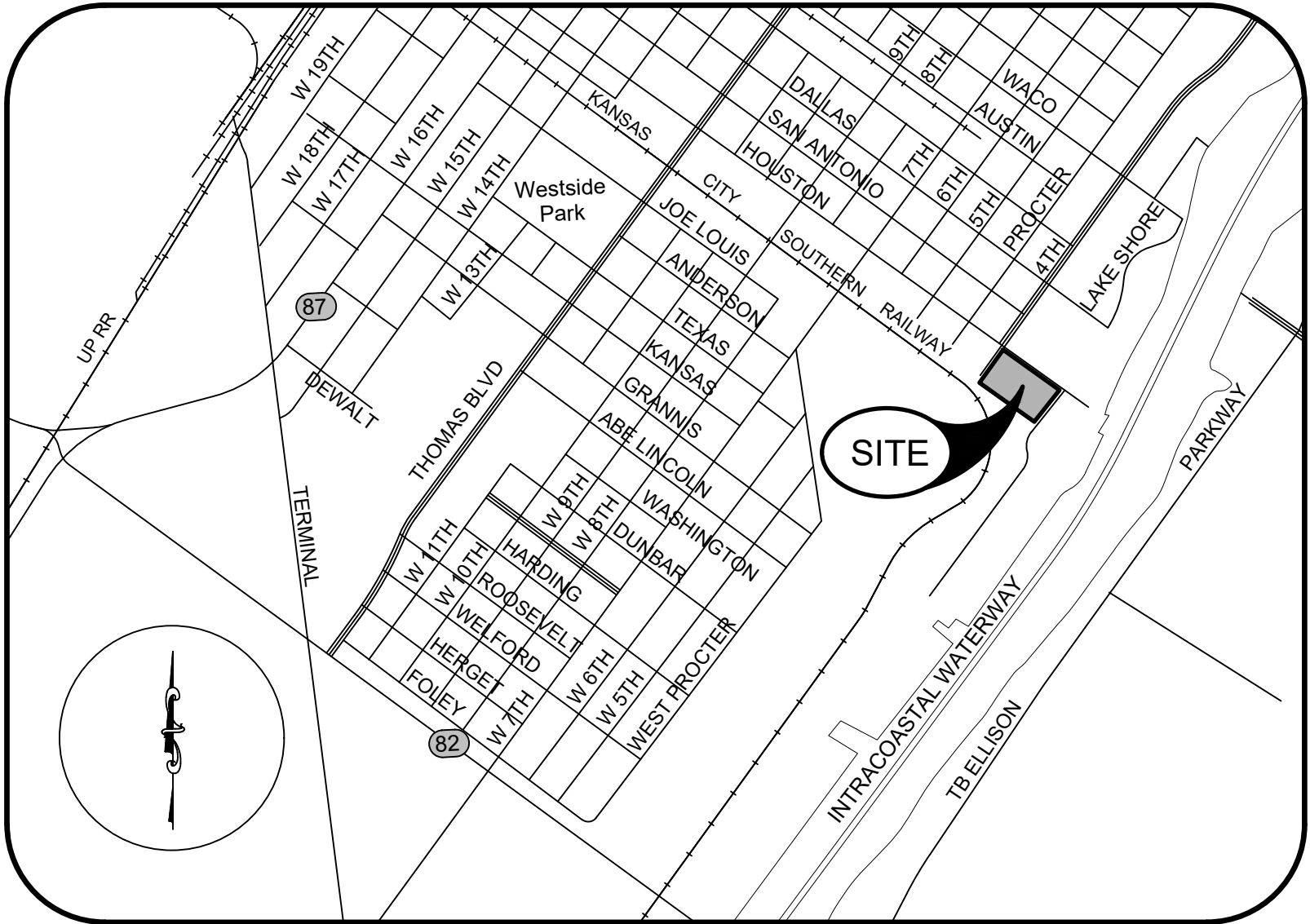
CONSTRUCTION PLANS
TRUCK QUEUING AREA AND
LAYDOWN YARD PROJECT
(CSJ 0920-38-288)
PORT ARTHUR, TEXAS
JUNE 2025

CONTACT LIST

PORT OF PORT ARTHUR DIRECTOR OF ENGINEERING	ED LONG, PE 409-983-2011
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JEFFERSON COUNTY DRAINAGE DISTRICT NO. 7	GARRETT BOUDIN 409-548-3802
TEXAS GAS SERVICE	CODY BICKERSTAFF 806-275-0915
ENTERGY (BEAUMONT, PORT ARTHUR, MID COUNTY)	JAMES ELLIS 409-988-3250
AT&T (PORT ARTHUR, GROVES)	RAY HILLIN 409-291-9757
SPECTRUM	MICHAEL WARD 409-720-5509
TEXAS ONE CALLS FOR UTILITY LOCATES	811

PORT COMMISSIONERS

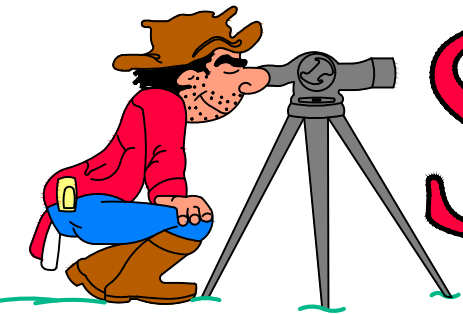
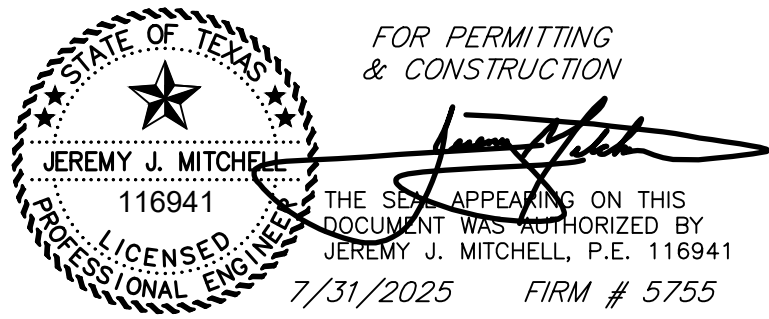
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VICE PRESIDENT:	LINDA TURNER SPEARS
SECRETARY/TREASURER	MARY WYCOFF
COMMISSIONER:	JOHN COMEAUX
COMMISSIONER:	FRED OWENS
EXECUTIVE PORT DIRECTOR/CEO	LARRY KELLEY



SHEET	DESCRIPTION
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3	TOPOGRAPHIC SURVEY
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15	RAILROAD CROSSING PANEL DETAIL (CENTURY)
E1-E2	ELECTRICAL PLANS & DETAILS

PORT OF PORT ARTHUR APPROVAL

BY: _____
DIRECTOR OF ENGINEERING



SOUTEX
SURVEYORS & ENGINEERS
T.B.P.E. FIRM #5755 * T.X.L.S. FIRM #101238
PROJECT NO. 23-0350

3737 Doctors Drive
Port Arthur, Texas 77642
Tel. 409.983.2004
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soutexsurveyors.com

NOTES:

Item 110 Excavation

Do not windrow or stockpile material. Move excess material from the project daily.

Item 164 Seeding for Erosion Control

Eliminate seeding in areas of natural growth determined by the Owner to have sufficient cover.

Subsidiary, No separate payment for this item.

Item 166 Fertilizer

Fertilize all the seeded or sodded areas of project. There is no separate pay for this item. It is subsidiary to seeding.

Item 168 Vegetative Watering

Water all seeded areas of the project. Consider this work to be subsidiary to the various bid items of the contract.

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TEXAS ONE CALLS FOR UTILITY LOCATES	811

Utility Notes

- Utility locations shown on the plans are for informational purposes only and are not exact. The engineer and the Owner assume no responsibility for variation in location and grades. Contractor shall verify location and elevation of existing utilities prior to construction of proposed facilities. Discrepancies between the two shall be immediately reported to the owner or engineer.
- Contractor will be responsible for contacting all utility companies with existing facilities in the areas of construction 48 hours prior to construction in areas of possible underground utilities which may or not be shown on drawing. Contractor is responsible for making the Texas One Call and following all requirements set forth through that agency. Contractor is responsible for keeping police and fire departments informed of construction activities.
- The Contractor shall be responsible for locating and protecting all utility lines during construction. The Contractor shall be responsible for any damage to existing utilities and shall promptly repair same or make arrangements for such repair with the Owner of the utility involved.
- In all cases the Contractor shall inform and coordinate work with the Owners of the various utilities sufficiently in advance of the contractor's operation to enable such utility Owners, in advance of any work which might damage, interfere with or require adjustments to utilities along or adjacent to the work, to reroute, provide temporary detours, or to make other adjustments to utilities in order that the contractor may proceed with his work with a minimum amount of delay and expense.
- The contractor shall cooperate with all utility owners concerned in effecting any utility adjustments necessary and shall not hold the Owner or Engineer liable for any expenses due to delay or additional work because of conflicts. The Contractor shall allow utility and/or pipeline companies to enter this project to accomplish such work as required for placement or protection of their services and as may be deemed necessary by the Engineer.
- All utility adjustments shall be the responsibility of the Owners of the utilities and if, in the opinion of the Engineer, adjustment is required, the Contractor will be responsible for notifying the respective owner.
- The contractor shall be responsible for confirming the exact location of utility lines and of any others which may exist. It shall be the contractor's responsibility to notify the utility involved in case of conflict or damage and the contractor shall be held responsible for any damage that occurs. Where the contractor encounters abandoned lines that interfere with the construction of this project, such lines shall be removed and disposed of by the contractor. There will be no direct payment for this work and it shall be considered subsidiary to the various bid items in the contract.
- Before excavating near existing utilities, contact the utility companies or the utility coordinating committee for exact locations to prevent damage or interference with present facilities. Notify the utility coordinating committee and the Texas 811 System. The Port of Port Arthur has existing private fiber optic cables within the project area that are not located by the Texas 811 system. Contractor shall contact the Port 5 working days in advance of excavation to allow marking of the fiber optic line(s).
- This action does not relieve the Contractor of the responsibilities under the terms of the contract or the plans and specifications. Damage caused by the Contractor's operations shall be repaired and restored to service in a timely manner at no expense to the City or Port or Port Arthur.
- If overhead or underground power lines need to be de-energized, contact the electrical service provider to perform this work. Costs associated with de-energizing the power lines or other protective measures required are at no expense to the Port of Port Arthur.
- If working near power lines, comply with the appropriate sections of Texas State Law and Federal Regulations relating to the type of work involved.
- Contractor shall be responsible for protecting all public utilities in the construction of this project. All manholes, clean-outs, valve boxes, fire hydrants, etc. must be adjusted to proper line and grade by the contractor prior to and after the placing of permanent paving. Utilities must be maintained to proper line and grade during construction of the paving for this development.
- Contractor shall protect all manholes covers, valve covers, vault lids, fire hydrants, power poles, guy wires, and telephone boxes that are to remain in place and undisturbed during construction.

Work Scheduling

- Contractor shall provide a written schedule describing the sequencing and routes of work.
- Contractor shall notify Owner no later that 48 hours prior to the commencement of work.
- Unless otherwise shown on the plans or otherwise directed, commence work after sunrise and ensure construction equipment is off the road by sunset.
- Contractor shall schedule work in a manner that will cause minimum interference with traffic and to the general public.
- Ingress and egress to adjacent property shall be maintained by the contractor at all times.
- Existing parking area shall remain open for parking at all times. Contractor shall coordinate its work area with the Port to minimize amount of area used by the contractor.

Surveying

- Contractor shall provide all onsite general construction surveying, layout, and any other surveying requirements necessary for the construction of the project. Owner will provide initial control points.
- Existing monuments or property corners shall not be disturbed. The Contractor will replace and accurately relocate all reference points and construction stakes lost, destroyed, or moved solely at his expense.

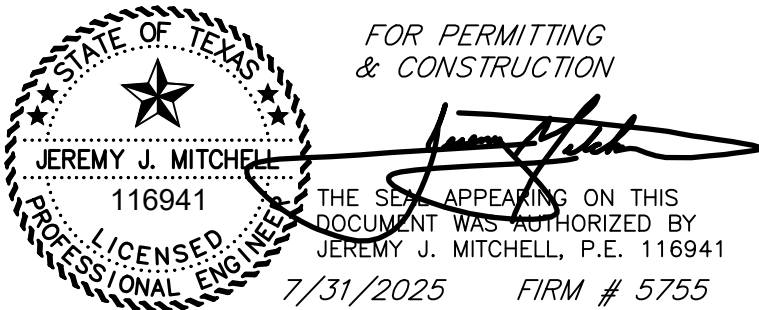
General Construction Notes

- Contractor's bid shall include all labor, material and equipment and overhead costs to perform work described in these plans. Any other work necessary for the intended work as described in these plans not specifically detailed in the unit price description of the bid shall be made subsidiary to the bid items provided.
- References to manufacturer's trade name or catalog numbers are for the purpose of identification only. Similar material from other manufacturers are permitted if they are of equal quality, comply with the specifications for this project, and are approved, except for roadway illumination, electrical, and traffic signal items.
- All materials and construction shall conform to Port of Port Arthur standards, except as noted herein and approved by the engineer.
- Any permits or fees required by the City or any other entity shall be paid for by the Contractor.
- Ingress and egress adjacent to the project shall be maintained by the Contractor at all times. The Contractor will be responsible for keeping mud and debris off existing public streets adjacent to the site.
- Contractor shall keep one complete set of plans and specifications in good condition on the job site at all times.
- Upon completion of all project improvements and inspections, and Owner acceptance of these improvements, the Contractor shall be required to furnish an Affidavit of Warranty to Owner for a one (1) year period on all work.
- All areas disturbed by construction activity shall be restored to an equal or better condition at the expense of the contractor.
- All culverts shall be protected from damage during construction operations. Culverts damaged as a result of contractor's negligence shall be replaced at contractor's expense.
- Contractor shall furnish, erect, and maintain all barricades, warning signs, and markings for hazards necessary to protect the public and the work site. When used during periods of darkness, such barricades, warning signs and hazard markings shall be suitably illuminated. All traffic control devices and their placement shall be in accordance with the latest Texas Manual on Uniform Traffic Control Devices. No payment will be made for barricades, signs, and traffic handling, but it will be considered subsidiary to the various bid items.
- The Port of Port Arthur shall pay for all required testing, including but not limited to required densities for subgrade, base and asphalt, and associated moisture-density relationships. The engineer will sample all concrete and make and test all beams and cylinders in accordance with the test methods provided for under the appropriate standard specifications for the various items.
- Port of Port Arthur forces will maintain the existing section of streets and its appurtenances not a part of this project except that those sections damaged by the contractor's forces shall be repaired by the contractor at his entire expense.
- The contractor shall maintain adequate drainage throughout the limits of the project during all construction phases.
- The contractor shall allow Port of Port Arthur forces to enter this project to accomplish such work as shown in the plans and as may be deemed necessary by the engineer.
- All drainage structures within the project limits shall be cleaned and unobstructed at the time of acceptance by the Port of Port Arthur.
- All materials, labor and incidentals required for the contractor to provide for traffic across the streets and for temporary ingress and egress to private property shall be furnished by the contractor at no additional cost to the Port of Port Arthur and shall be considered as incidental to the various bid items in this project.
- Any storm water permit and associated fees required for construction of this project shall be at the contractor's expense. Also, any temporary erosion, sediment and water control measures required shall be in accordance with the details show in the plans and all work and materials required shall be paid for under the item "Temporary Erosion, Sedimentation & Environmental Controls".
- Cement stabilized sand for backfill shall be considered subsidiary to any storm sewer, inlets, and junction boxes.
- Erosion control logs shall be installed in accordance with the manufacturer's recommendations, or as directed by the engineer. Logs shall be placed around all storm sewer inlets and pipe openings and shall be maintained as needed.
- All concrete shall be TXDOT Class P 4000 psi @ 28 days strength.
- Seal Joints with BASF MasterSeal SL 1 Elastomeric Polyurethane.



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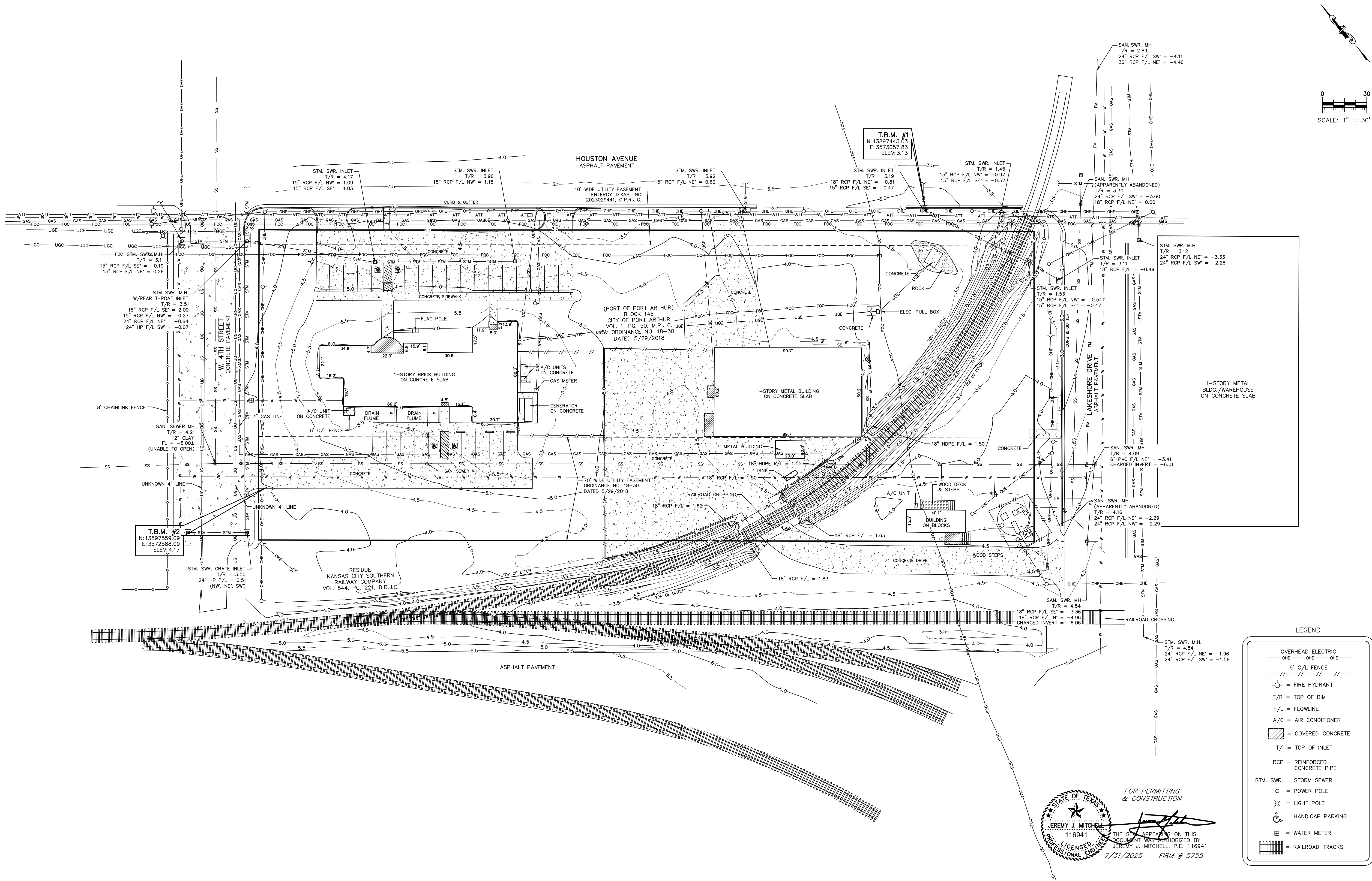
NO.	REVISION NOTES	DATE

SHEET TITLE
GENERAL NOTES
PROJECT
RIDER 37 – PORT OF PORT ARTHUR TRUCK QUEUING AREA AND LAYDOWN YARD 221 HOUSTON AVENUE PORT ARTHUR, TEXAS 77641

PROJ. NO: 23-0350
SCALE: 1" = 30'
PRINT DATE: 7/31/2025
DRAWN BY: NJ
CHECKED BY: JM
APPROVED BY: JM

SHEET 2 OF 14

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JEREMY J. MITCHELL
REGISTERED PROFESSIONAL LAND SURVEYOR NO. 6700

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- COORDINATES ARE BASED ON THE TEXAS COORDINATE SYSTEM OF 1983, SOUTH CENTRAL ZONE, U.S. SURVEY FEET AND ARE REFERENCED TO SMARTNET, NORTH AMERICA.
- THE LOCATIONS OF UNDERGROUND AND OTHER NON-VISIBLE UTILITIES SHOWN HEREON HAVE BEEN PLOTTED BASED UPON DATA EITHER FURNISHED BY THE AGENCIES CONTROLLING SUCH DATA AND/OR OBTAINED FROM RECORDS MADE AVAILABLE TO US BY THE AGENCIES CONTROLLING SUCH RECORDS. WHERE FOUND, THE SURFACE FEATURES OF UTILITIES ARE SHOWN. THE ACTUAL NON-VISIBLE LOCATIONS MAY VARY FROM THOSE SHOWN HEREON. EACH AGENCY SHOULD BE CONTACTED RELATIVE TO THE PRECISE LOCATION OF ITS UNDERGROUND INSTALLATIONS PRIOR TO ANY RELIANCE UPON THE ACCURACY OF SUCH LOCATIONS SHOWN HEREON. PRIOR TO EXCAVATION AND DIGGING CALL TEXAS 811.
- ELEVATIONS SHOWN HEREON ARE NAVD83 ORTHOMETRIC HEIGHTS DERIVED USING GEOID 18

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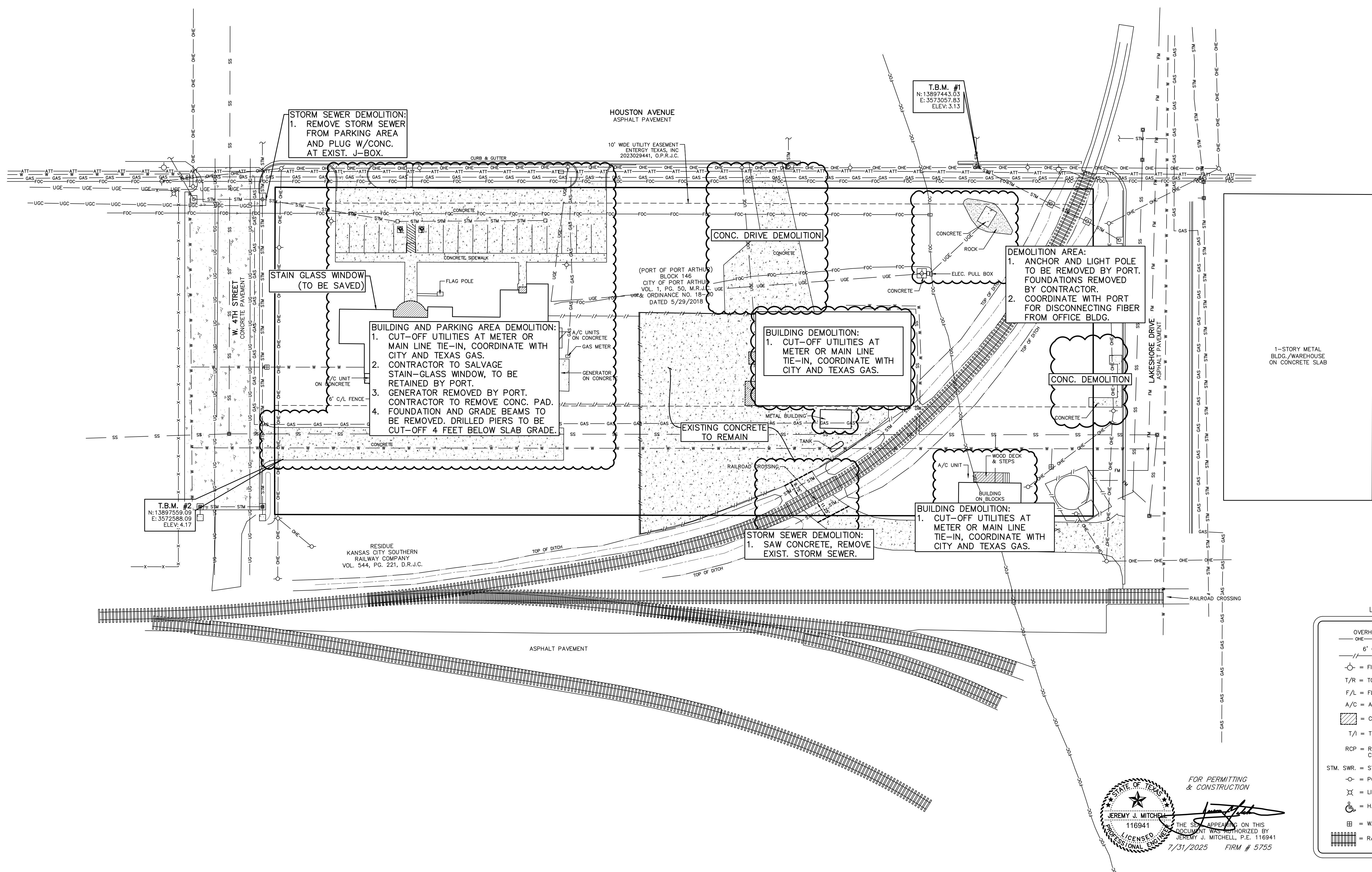
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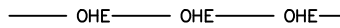
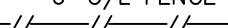
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TOPOGRAPHIC SURVEY
PROJECT
RIDER 37 - PORT OF PORT ARTHUR TRUCK
QUEUING AREA AND LAYDOWN YARD
221 HOUSTON AVENUE
PORT ARTHUR, TEXAS 77641

PROJ. NO: 23-0350
SCALE: 1" = 30'
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SHEET 3 OF 12

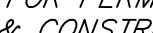


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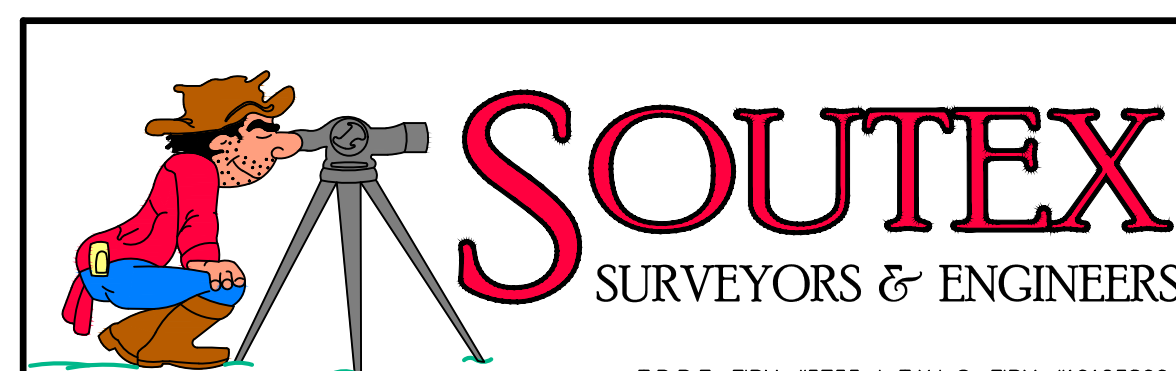
- OVERHEAD ELECTRIC

 6' C/L FENCE

 = FIRE HYDRANT
 T/R = TOP OF RIM
 F/L = FLOWLINE
 A/C = AIR CONDITIONER
 = COVERED CONCRETE
 T/I = TOP OF INLET
 RCP = REINFORCED CONCRETE PIPE
 STM. SWR. = STORM SEWER
 = POWER POLE
 = LIGHT POLE
 = HANDICAP PARKING
 = WATER METER
 = RAILROAD TRACKS

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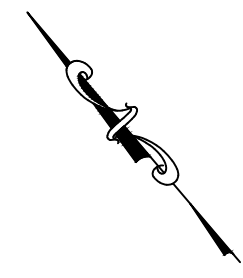


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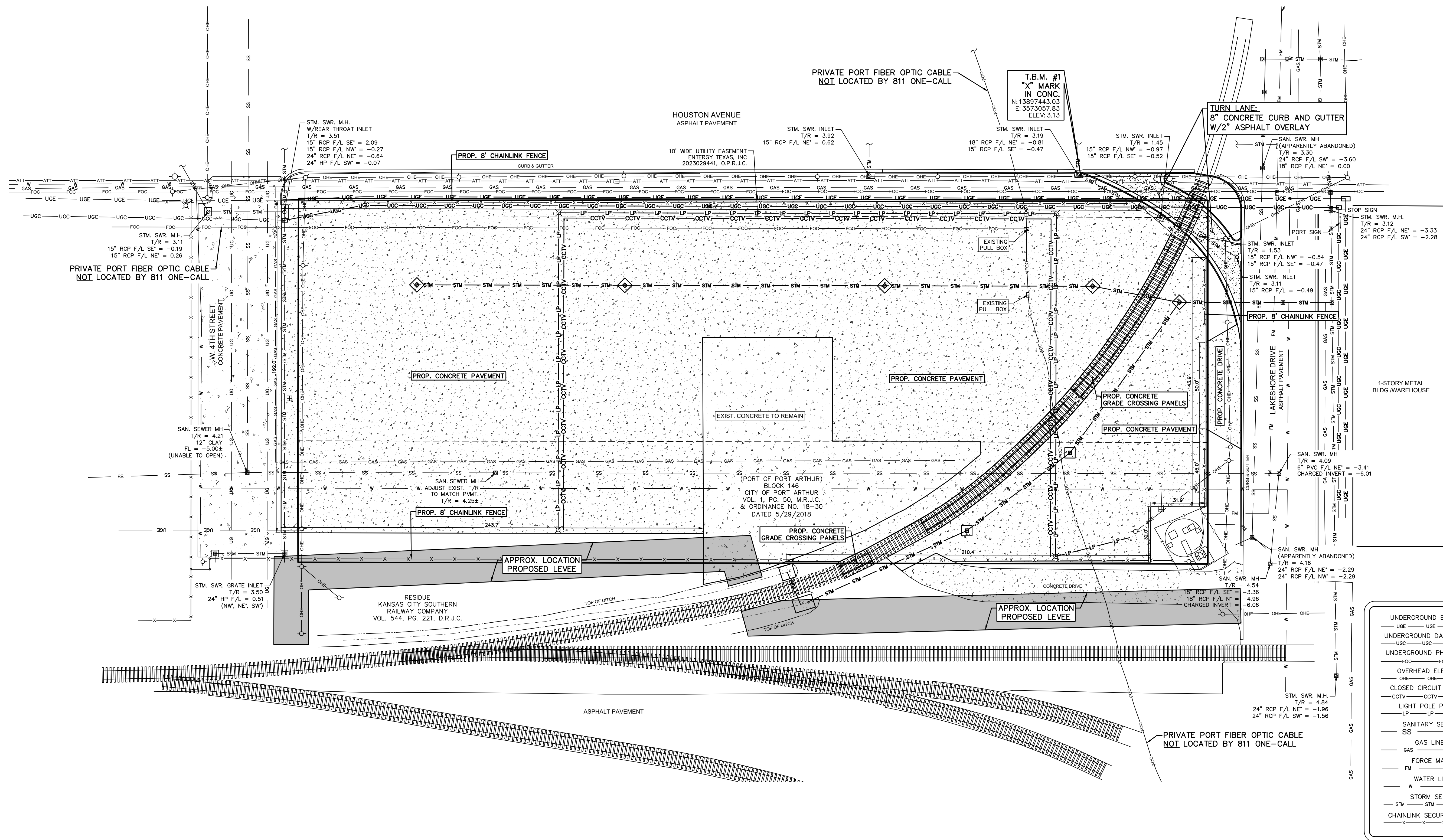
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SHEET TITLE
DEMOLITION PLAN
PROJECT
- PORT OF PORT ARTHUR TRUCK
AREA AND LAYDOWN YARD
N AVENUE
R, TEXAS 77641

PROJ. NO: 23-0350
SCALE: 1" = 30'
PRINT DATE: 7/31/2025
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SHEET 4 OF 12



0 30
SCALE: 1" = 30'



LEGEND	
UNDERGROUND ELECTRIC	T/R = TOP OF RIM
UNDERGROUND DATA/COMM.	F/L = FLOWLINE
UNDERGROUND PHONE LINE	RCP = REINFORCED CONCRETE PIPE
OVERHEAD ELECTRIC	STM. SWR. = STORM SEWER
CLOSED CIRCUIT TV LINE	O.P.R.J.C. = OFFICIAL RECORDS JEFFERSON COUNTY
LIGHT POLE POWER	D.R.J.C. = DEED RECORDS JEFFERSON COUNTY
SANITARY SEWER	○ = POWER POLE
SS	⊗ = LIGHT POLE
GAS LINE	□ = FIBER OPTIC CABLE PEDESTAL (ATT)
FORCE MAIN	⊙ = FIRE HYDRANT
WATER LINE	⊞ = WATER METER
STORM SEWER	= RAILROAD TRACKS
CHAINLINK SECURITY FENCE	

STATE OF TEXAS
116941
JEREMY J. MITCHELL
7/31/2025
FIRM # 5755
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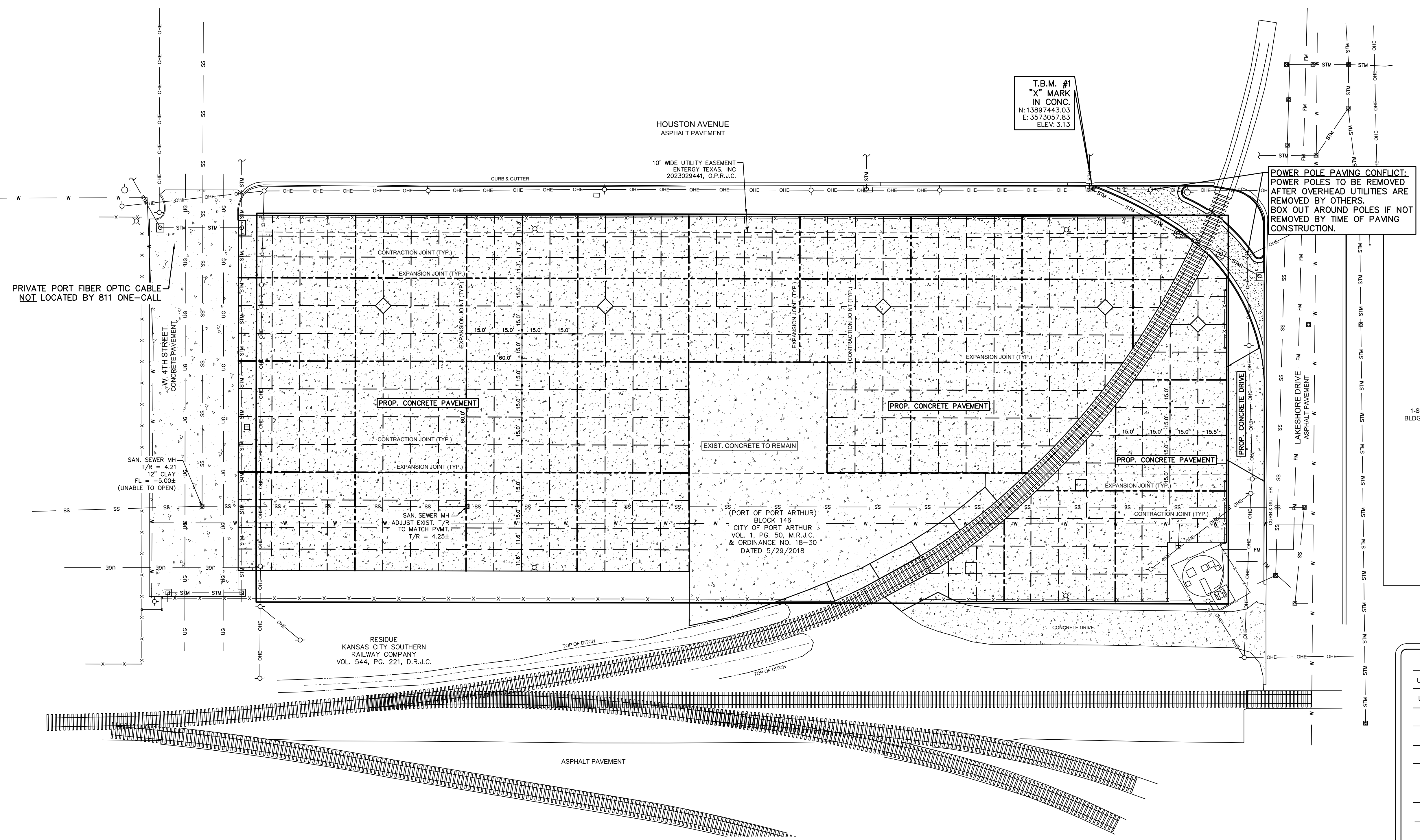
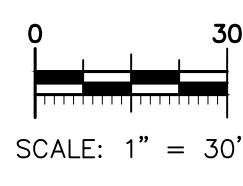
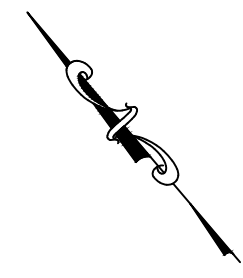
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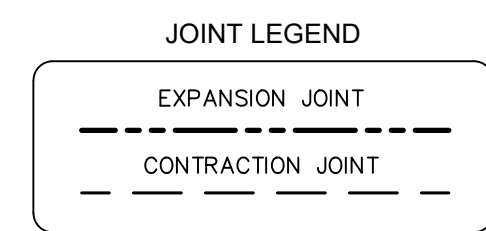
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DIMENSIONAL SITE PLAN	
PROJECT	
RIDER 37 - PORT OF PORT ARTHUR TRUCK QUEUING AREA AND LAYDOWN YARD	
221 HOUSTON AVENUE PORT ARTHUR, TEXAS 77641	
PROJ. NO: 23-0350	SCALE: 1" = 30'
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SHEET 5 OF 14	





POWER POLE PAVING CONFLICT:
POWER POLES TO BE REMOVED
AFTER OVERHEAD UTILITIES ARE
REMOVED BY OTHERS.
BOX OUT AROUND POLES IF NOT
REMOVED BY TIME OF PAVING
CONSTRUCTION.

1-STORY METAL
BLDG./WAREHOUSE



LEGEND	
UNDERGROUND ELECTRIC	T/R = TOP OF RIM
UNDERGROUND DATA/COMM.	F/L = FLOWLINE
UNDERGROUND PHONE LINE	RCP = REINFORCED CONCRETE PIPE
OVERHEAD ELECTRIC	STM. SWR. = STORM SEWER
CLOSED CIRCUIT TV LINE	O.P.R.J.C. = OFFICIAL RECORDS JEFFERSON COUNTY
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WATER LINE	⊙ = FIRE HYDRANT
STORM SEWER	⊞ = WATER METER
CHAINLINK SECURITY FENCE	= RAILROAD TRACKS

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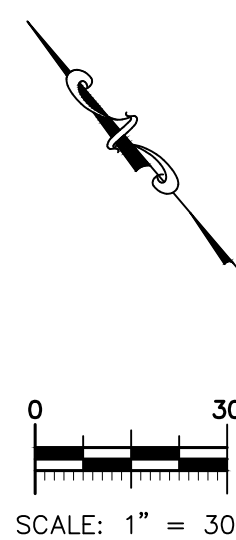
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SHEET TITLE
JOINT PLAN
PROJECT
RIDER 37 - PORT OF PORT ARTHUR TRUCK QUEUING AREA AND LAYDOWN YARD 221 HOUSTON AVENUE PORT ARTHUR, TEXAS 77641

PROJ. NO: 23-0350
SCALE: 1" = 30'
PRINT DATE: 7/31/2025
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SHEET 6 OF 14



STATE OF TEXAS
JEREMY J. MITCHELL
116941
LICENSED PROFESSIONAL ENGINEER
FOR PERMITTING
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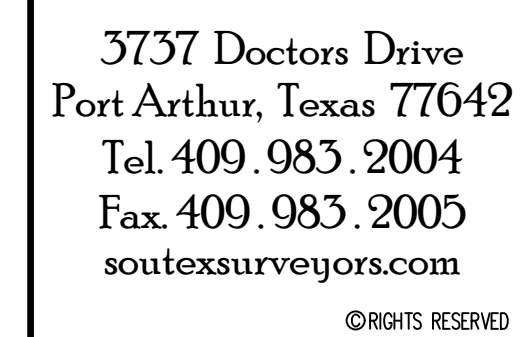


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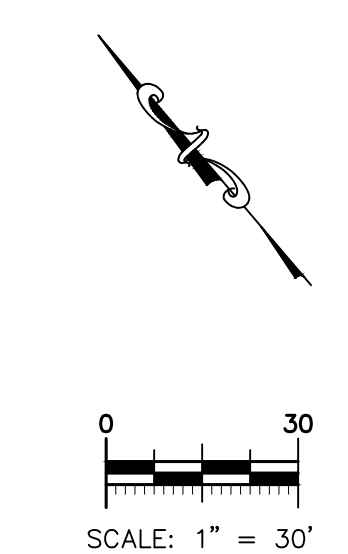
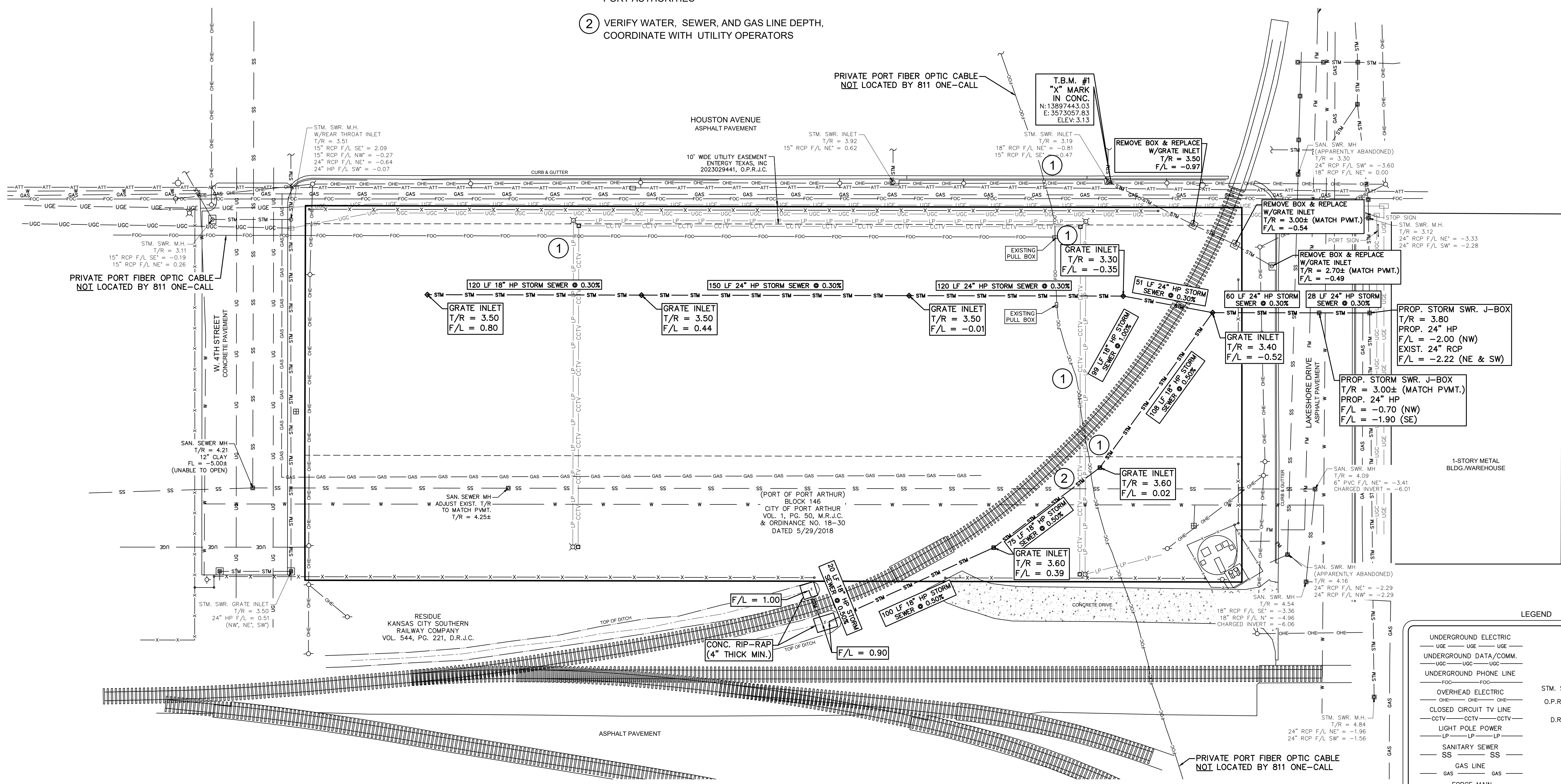
SHEET TITLE	PROJ. NO: 23-0350
GRADING PLAN	SCALE: 1" = 30'
PROJECT	PRINT DATE: 7/31/202
RIDER 37 — PORT OF PORT ARTHUR TRUCK QUEUING AREA AND LAYDOWN YARD 221 HOUSTON AVENUE PORT ARTHUR, TEXAS 77641	DRAWN BY: NJ CHECKED BY: JM APPROVED BY: JM
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SHEET TITLE		PROJ. NO: 23-0350
GRADING PLAN		SCALE: 1" = 30'
PROJECT		PRINT DATE: 7/31/2021
RIDER 37 - PORT OF ARTHUR TRUCK QUEUING AREA AND LAYDOWN YARD 221 HOUSTON AVENUE PORT ARTHUR, TEXAS 77641		DRAWN BY: NJ CHECKED BY: JM APPROVED BY: JM
		SHEET 7 OF 14

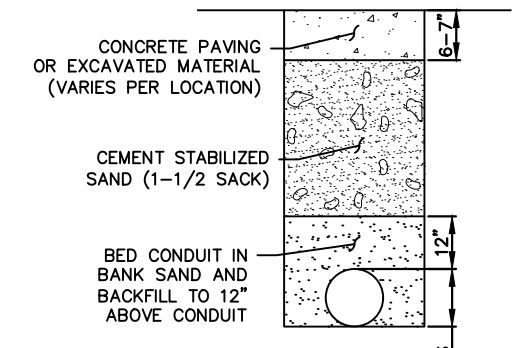
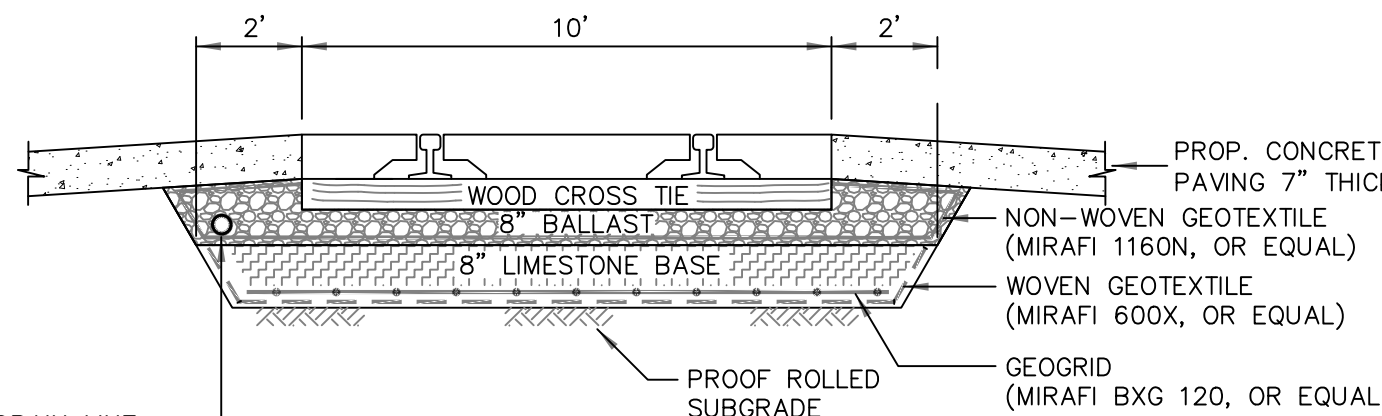
UTILITY CONFLICT NOTES

- 1 VERIFY FIBER OPTIC LINE DEPTH, COORDINATE WITH PORT AUTHORITIES
- 2 VERIFY WATER, SEWER, AND GAS LINE DEPTH, COORDINATE WITH UTILITY OPERATORS



LEGEND	
UNDERGROUND ELECTRIC	T/R = TOP OF RIM
UNDERGROUND DATA/COMM.	F/L = FLOWLINE
UNDERGROUND PHONE LINE	RCP = REINFORCED CONCRETE PIPE
OVERHEAD ELECTRIC	STM. SWR. = STORM SEWER
CLOSED CIRCUIT TV LINE	O.P.R.J.C. = OFFICIAL RECORDS JEFFERSON COUNTY
LIGHT POLE POWER	D.R.J.C. = DEED RECORDS JEFFERSON COUNTY
SANITARY SEWER	LP = POWER POLE
GAS LINE	SS = LIGHT POLE
FORCE MAIN	FOC = FIBER OPTIC CABLE PEDESTAL (ATT)
WATER LINE	FM = FIRE HYDRANT
STORM SEWER	W = WATER METER
CHAINLINK SECURITY FENCE	STM = RAILROAD TRACKS

INSTALL 4" BALLAST DRAIN LINE: SCH. 40 PVC PERFORATED PIPE. PERFORATIONS DOWN. WRAP WITH NON-WOVEN GEOTEXTILE FABRIC. DRAIN TO NEAREST ADJACENT STORM SEWER J-BOX AS SHOWN.



FOR PERMITTING & CONSTRUCTION
JEREMY J. MITCHELL
116941
7/31/2025
FIRM # 5755

NO.	REVISION NOTES	DATE

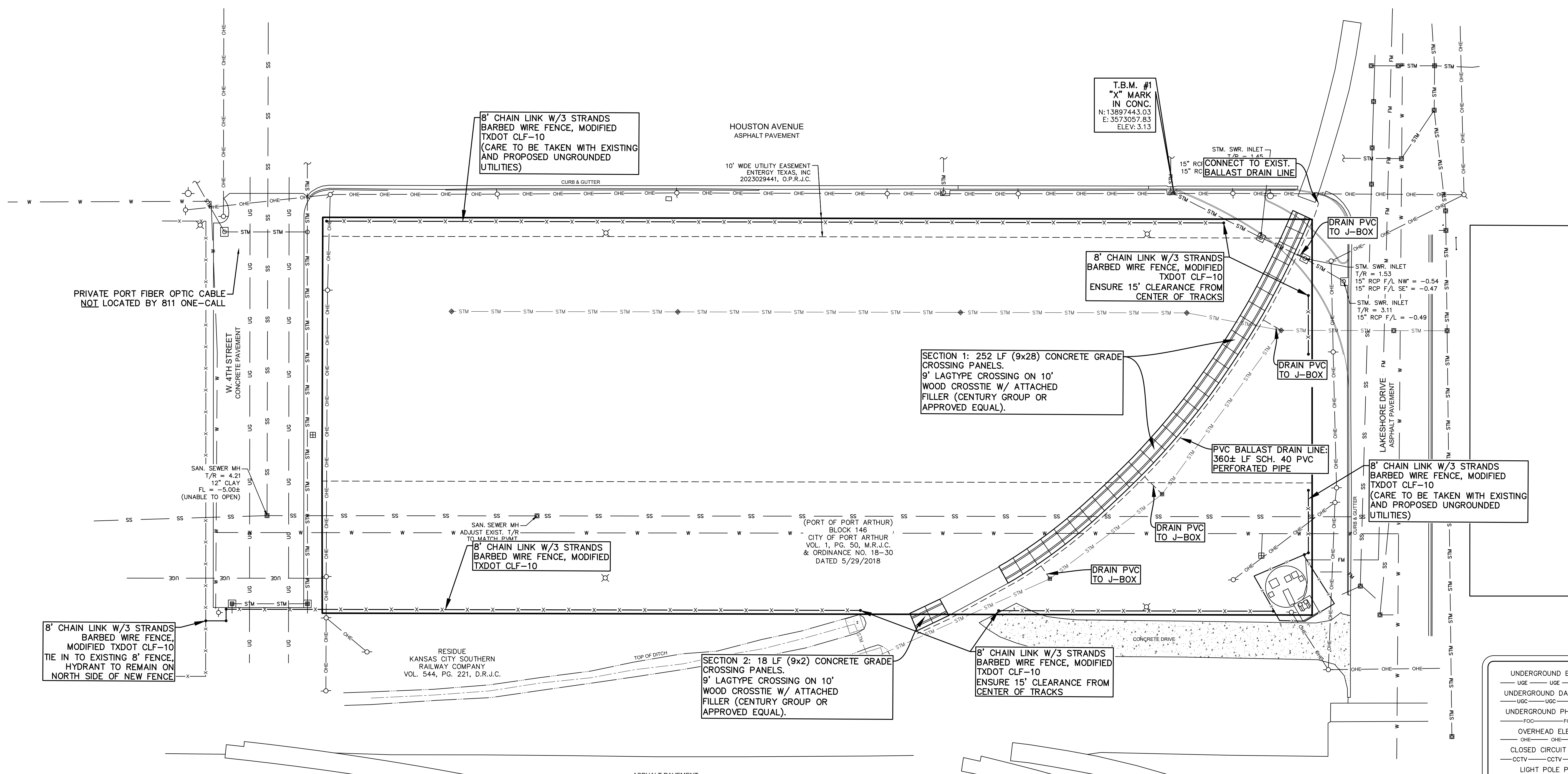
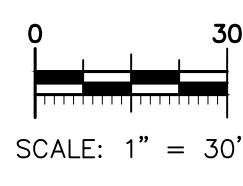
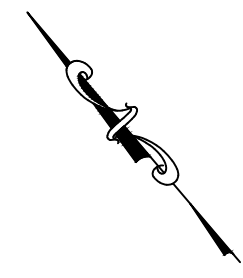
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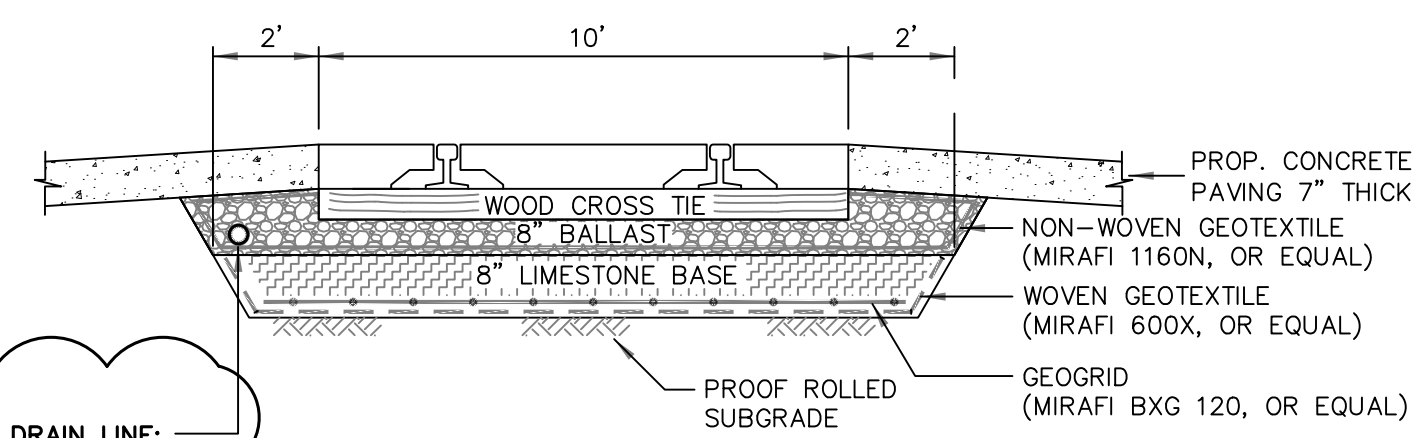
SHEET TITLE	
DRAINAGE PLAN	
PROJECT	
RIDER 37 - PORT OF PORT ARTHUR TRUCK QUEUING AREA AND LAYDOWN YARD	
221 HOUSTON AVENUE PORT ARTHUR, TEXAS 77641	

PROJ. NO: 23-0350
SCALE: 1" = 30'
PRINT DATE: 7/31/2025
DRAWN BY: NJ
CHECKED BY: JM
APPROVED BY: JM
SHEET 8 OF 14





LEGEND	
UNDERGROUND ELECTRIC	T/R = TOP OF RIM
UNDERGROUND DATA/COMM.	F/L = FLOWLINE
UNDERGROUND PHONE LINE	RCP = REINFORCED CONCRETE PIPE
OVERHEAD ELECTRIC	STM. SWR. = STORM SEWER
CLOSED CIRCUIT TV LINE	O.P.R.J.C. = OFFICIAL RECORDS JEFFERSON COUNTY
LIGHT POLE POWER	D.R.J.C. = DEED RECORDS JEFFERSON COUNTY
SANITARY SEWER	○ = POWER POLE
GAS LINE	⋈ = LIGHT POLE
FORCE MAIN	□ = FIBER OPTIC CABLE PEDESTAL (ATT)
WATER LINE	⊙ = FIRE HYDRANT
STORM SEWER	⊞ = WATER METER
CHAINLINK SECURITY FENCE	= RAILROAD TRACKS



FOR PERMITTING & CONSTRUCTION

THE STATE OF TEXAS

116941

7/31/2025

FIRM # 5755

THE STATE OF TEXAS

116941

7/31/2025

FIRM # 5755

NO.	REVISION NOTES	DATE



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SHEET TITLE

RAIL PLAN/GRADE CROSSING
PANELS & FENCING PLAN

PROJECT

RIDER 37 - PORT OF PORT ARTHUR TRUCK
QUEUING AREA AND LAYDOWN YARD

221 HOUSTON AVENUE
PORT ARTHUR, TEXAS 77641

PROJ. NO: 23-0350

SCALE: 1" = 30'

PRINT DATE: 7/31/2025

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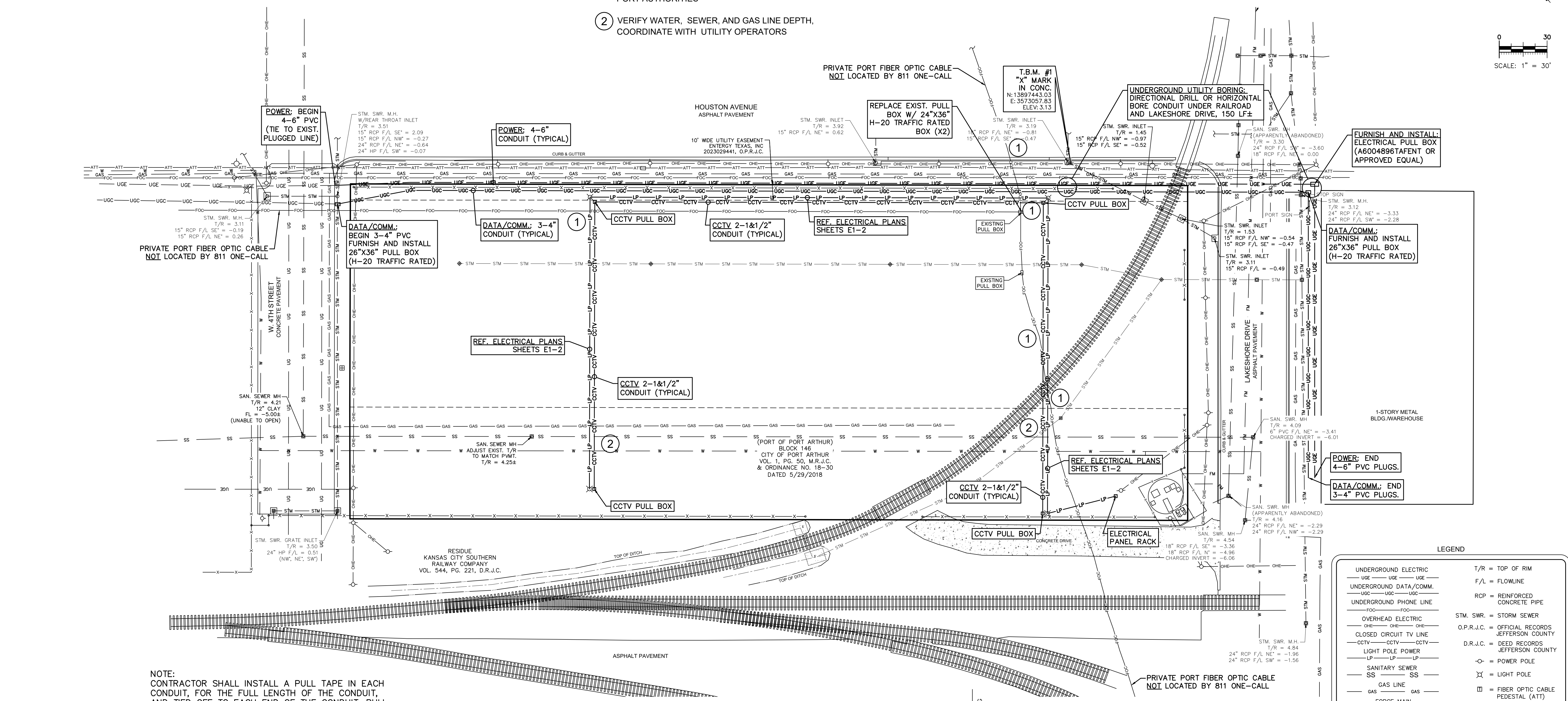
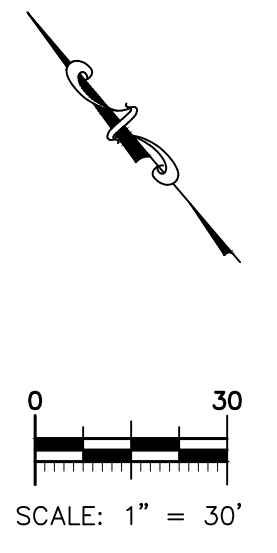
APPROVED BY: JM

SHEET 9 OF 14

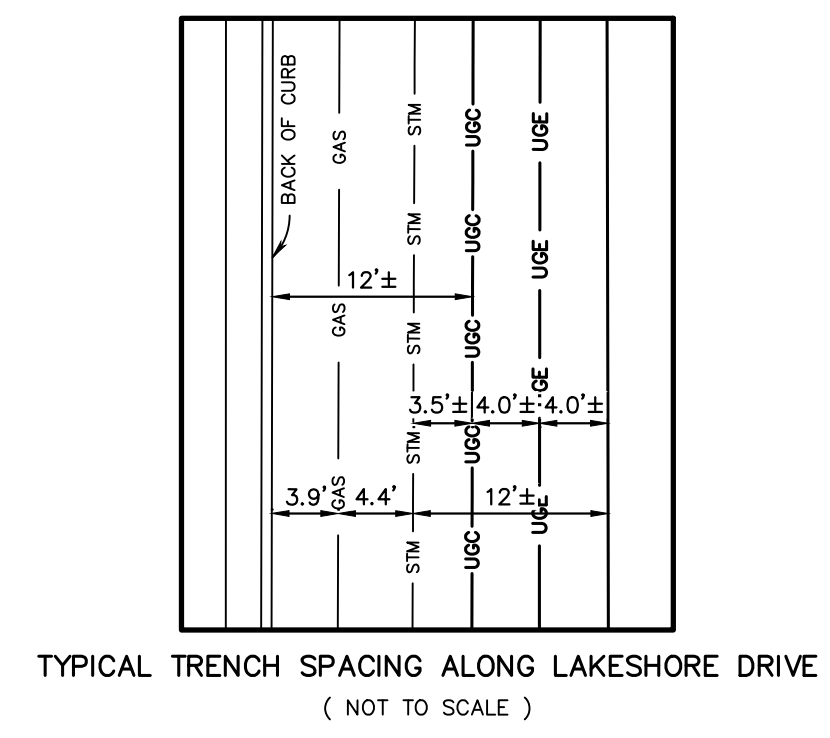
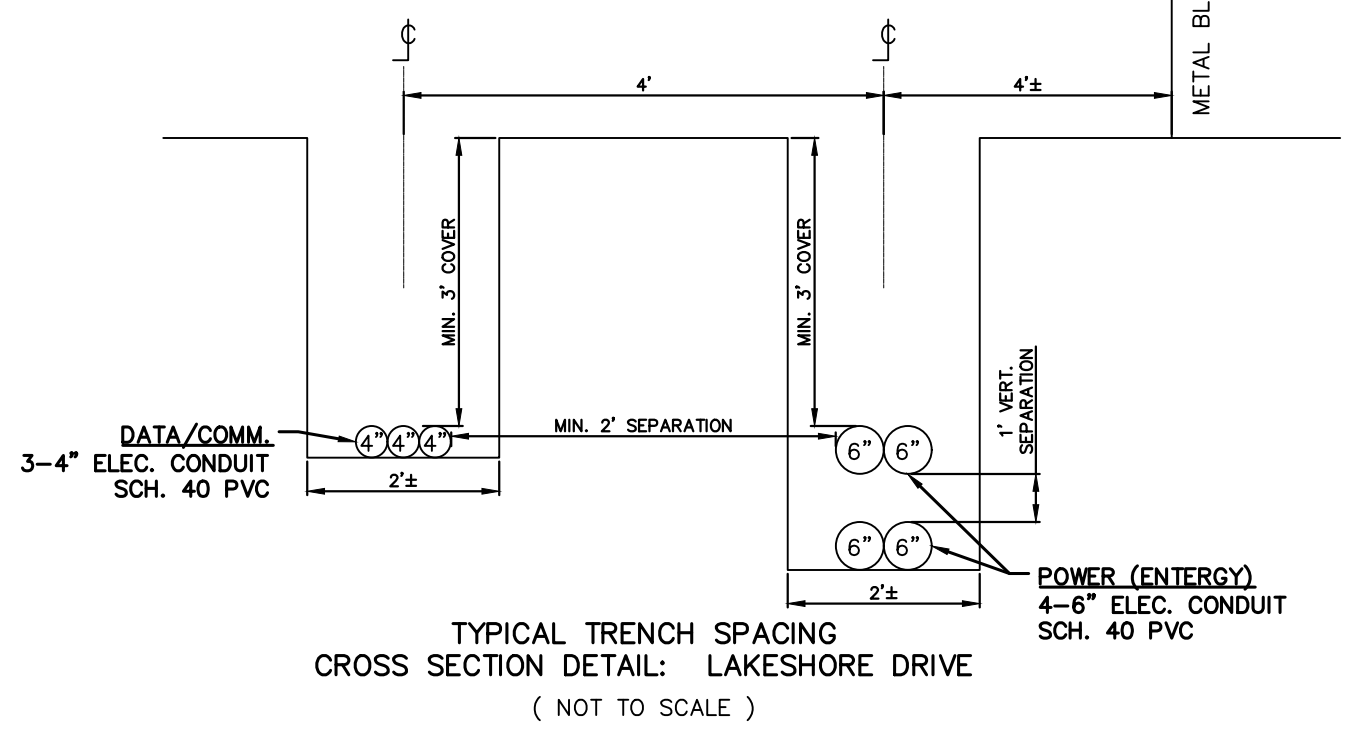
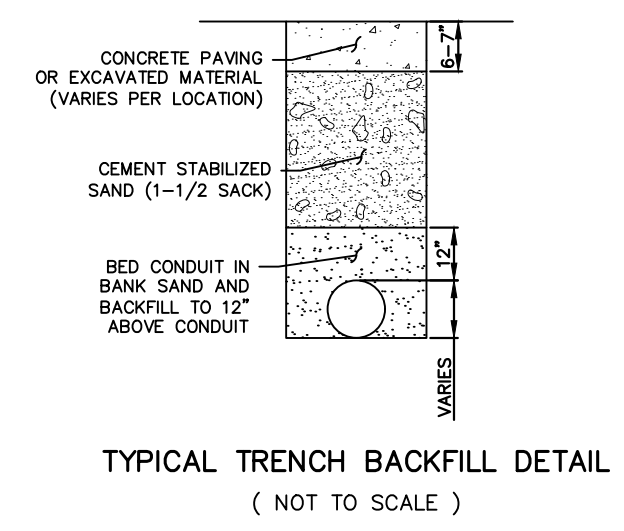
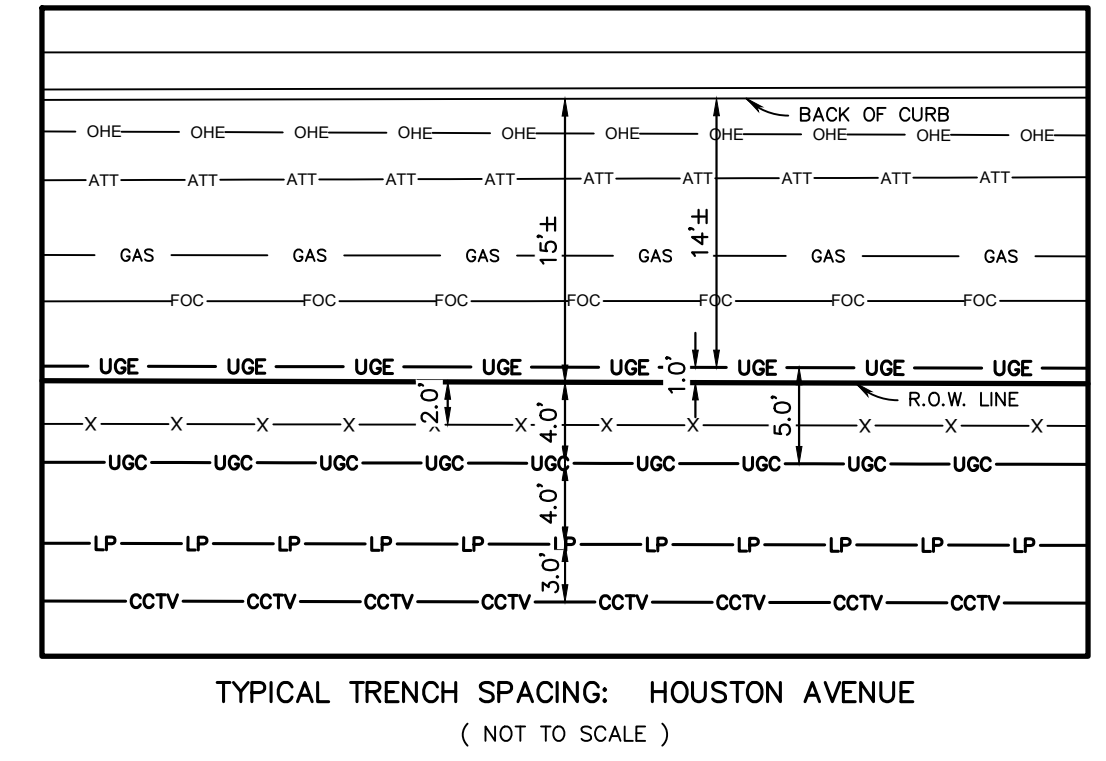
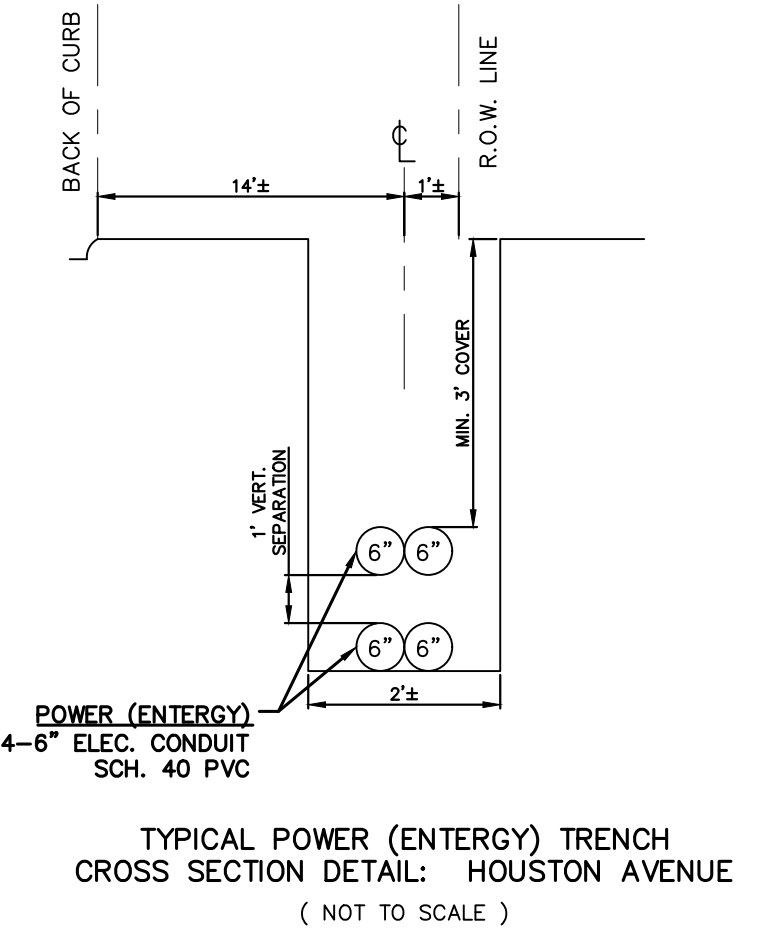


UTILITY CONFLICT NOTES

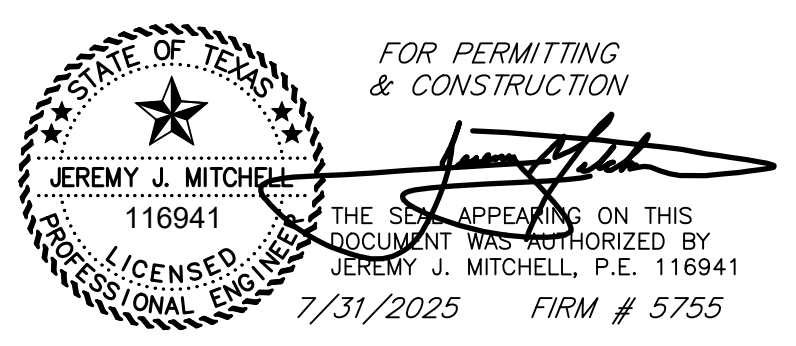
- 1 VERIFY FIBER OPTIC LINE DEPTH, COORDINATE WITH PORT AUTHORITIES
- 2 VERIFY WATER, SEWER, AND GAS LINE DEPTH, COORDINATE WITH UTILITY OPERATORS



NOTE:
CONTRACTOR SHALL INSTALL A PULL TAPE IN EACH CONDUIT, FOR THE FULL LENGTH OF THE CONDUIT, AND TIED OFF TO EACH END OF THE CONDUIT. PULL TAPE SHALL BE 5/8" WIDE WITH A MINIMUM TENSILE STRENGTH OF 1,250 POUNDS.



LEGEND	
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CHAINLINK SECURITY FENCE	= RAILROAD TRACKS



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SHEET TITLE	
UTILITY PLAN	
PROJECT	
RIDER 37 - PORT OF PORT ARTHUR TRUCK QUEUING AREA AND LAYDOWN YARD	
221 HOUSTON AVENUE PORT ARTHUR, TEXAS 77641	

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SHEET 10 of 14



INSTALL AS NECESSARY TO PREVENT WASH OUT OF SILT FENCE.



TEMPORARY EROSION CONTROL LOGS

EROSION CONTROL LOG NOTES

1. LENGTHS OF EROSION CONTROL LOGS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND AS REQUIRED FOR THE PURPOSE INTENDED. MAXIMUM LENGTH OF LOGS SHALL BE 60" FOR 18" DIAMETER OR 90" FOR 24" DIAMETER LOGS.
2. UNLESS OTHERWISE NOTED, LOGS SHALL BE BIODEGRADABLE OR PHOTODEGRADABLE.
3. CONTAINMENT MESH UNLESS WHERE LOG WILL REMAIN IN PLACE FOR PERMANENT EROSION CONTROL SYSTEM. FOR TEMPORARY INSTALLATIONS, USE RECYCLABLE CONTAINMENT MESH.
4. STUFF LOGS WITH SUFFICIENT FILTER MATERIAL TO ACHIEVE DESIRED FILL. WILL HOLD SHAPE WITHOUT EXCESSIVE DEFORMATION.
5. STAKES SHALL BE 2" X 2" WOOD OR #3 REBAR, 4" LONG, EMBEDDED SUCH THAT 2" PROTRUDES ABOVE LOG, OR AS DIRECTED.
6. DO NOT PLACE STAKES THROUGH CONTAINMENT MESH.

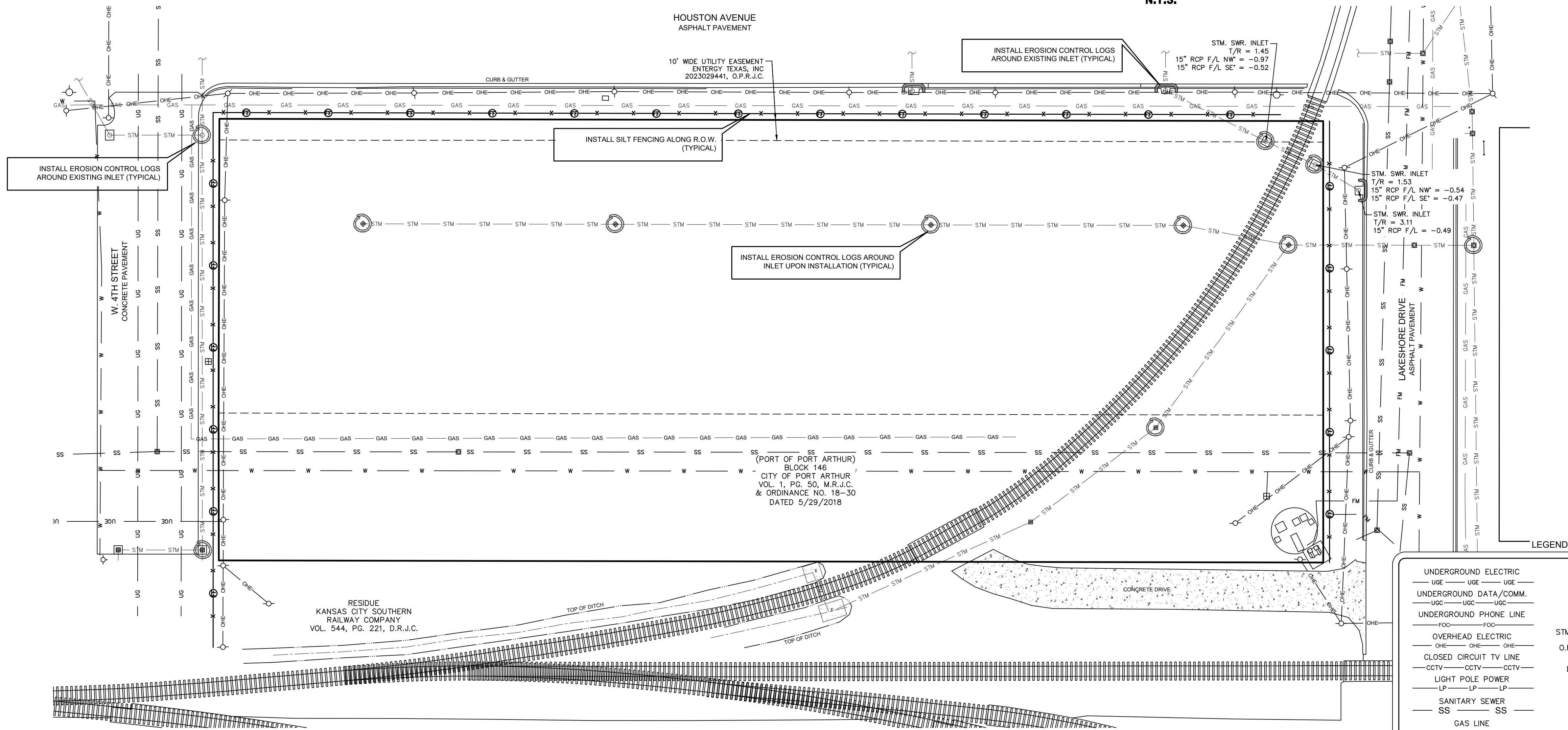


NOTES:

1. USE ONLY OPEN GRADED ROCK (4 TO 8") DIAMETER FOR STREAM FLOW CONDITIONS. USE OPEN GRADED ROCK (3 TO 5") DIAMETER FOR OTHER CONDITIONS.
2. THE ROCK BERM SHALL BE SECURED WITH A WOVEN WIRE SHEATHING MAXIMUM (1") OPENING AND MINIMUM WIRE DIAMETER OF (20 GAUGE). ROCK BERMS IN CHANNEL APPLICATION SHALL BE ANCHORED INTO THE SUBSTRATE A MINIMUM OF (6 ") WITH T-POSTS OR WITH (#5 OR #6) REBAR, WITH MAXIMUM SPACING APART OF (48") ON CENTER.
3. THE ROCK BERM SHALL BE INSPECTED WEEKLY OR AFTER EACH RAIN, AND THE STRUCTURE (FOR FABRIC CORE-WOVEN SHEATHING) SHALL BE REMOVED WHEN THE STRUCTURE CEASES TO FUNCTION DUE TO EXCESSIVE SILT ACCUMULATION AMONG THE ROCKS, WASHOUT, CONSTRUCTION TRAFFIC DAMAGE, ETC.
4. WHEN SILT REACHES A DEPTH EQUAL TO ONE-THIRD THE HEIGHT OF THE BERM OR (6"), WHICHEVER IS LESS, THE SILT SHALL BE REMOVED AND DISPOSED OF ON AN APPROVED SITE AND IN A MANNER THAT WILL NOT CREATE A SILTATION PROBLEM.
5. DAILY INSPECTION SHALL BE MADE ON SEVERE-SERVICE ROCK BERMS; SILT SHALL BE REMOVED WHEN ACCUMULATION REACHES (6").
6. WHEN THE SILT IS COMPLETELY REMOVED, THE BERM AND ACCUMULATED SILT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED MANNER.



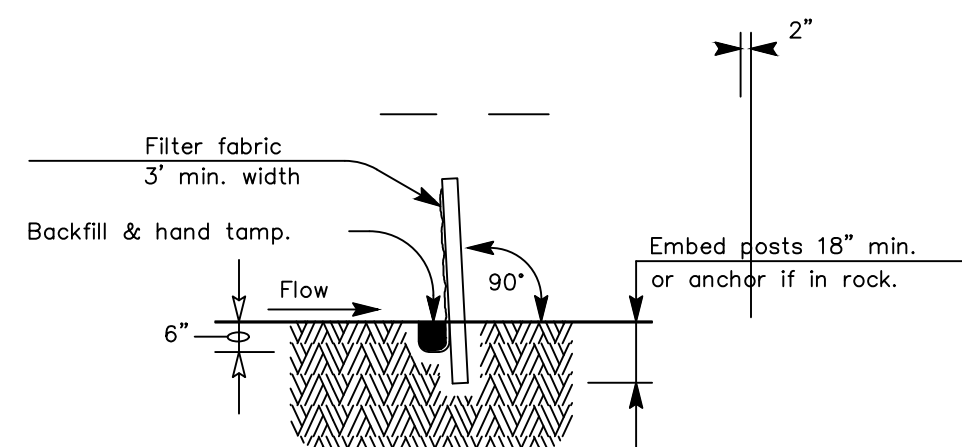
CONSTRUCTION EXIT (TYPE 1)
N.T.S.



SECTION A-A
N.T.S.

NOTES:

1. CONTRACTOR TO TAKE EXTRA CARE TO KEEP EAST LUCAS CLEAN AND FREE OF DEBRIS. ANY MUD, DEBRIS, ETC. ON THESE ROADS CAUSED BY THIS CONSTRUCTION IS TO BE CLEANED UP AT ONCE.
2. EROSION CONTROL MEASURES TO BE MAINTAINED UNTIL VEGETATION ESTABLISHED @ 75% COVERAGE.

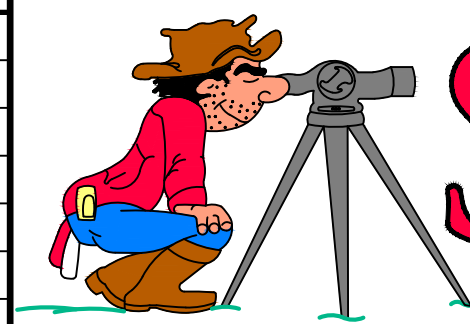


NOTES:

1. CONTRACTOR TO TAKE EXTRA CARE TO KEEP STREETS CLEAN AND FREE OF DEBRIS. ANY MUD, DEBRIS, ETC. ON THESE ROADS CAUSED BY THIS CONSTRUCTION IS TO BE CLEANED UP AT ONCE.
2. EROSION CONTROL MEASURES TO BE MAINTAINED UNTIL VEGETATION ESTABLISHED @ 75% COVERAGE.

CONCRETE WASHOUT AREA

1. MINIMUM AREA IS 10' x 10' WITH 2' DEPTH.
2. PIT TO BE LINED WITH 10 MIL PLASTIC SHEETING.
3. PROVIDE A SIGN NOTING THE CONCRETE WASHOUT AREA.
4. THE WASHOUT AREA TO BE CLEANED OUT WHEN 75% OF THE CAPACITY IS REACHED.
5. WHEN AREA IS NO LONGER NEEDED THE MATERIAL IS TO BE REMOVED AND HAULED TO A CONCRETE CRUSHING FACILITY OR PERMITTED LANDFILL.

[illegible]

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SHEET TITLE

EROSION CONTROL PLAN

PROJECT

RIDER 37 - PORT OF PORT ARTHUR TRUCK
QUEUING AREA AND LAYDOWN YARD
221 HOUSTON AVENUE
PORT ARTHUR, TEXAS 77641

PROJ. NO: 23-0350

SCALE: 1" = 30'

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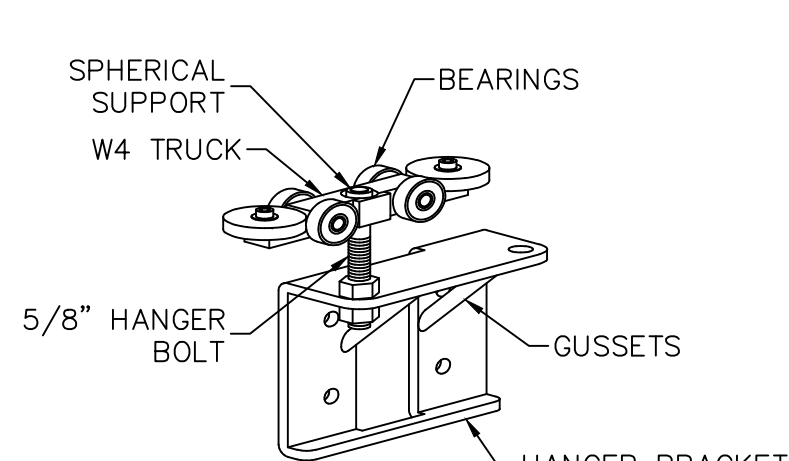
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APPROVED BY: JM

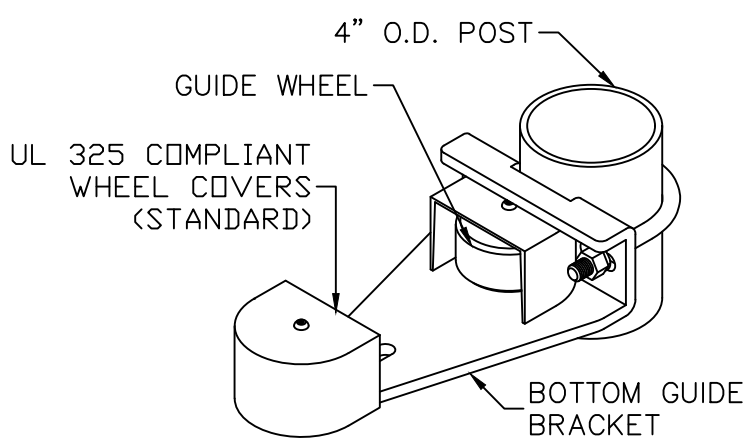
SHEET 11 OF 1

SHEET 11 OF 11

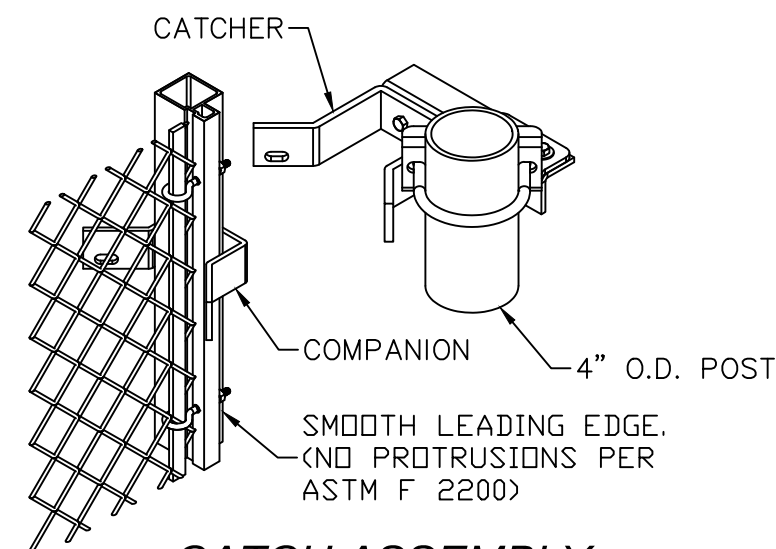
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7 GATE HANGER ASSEMBLY
Scale: None



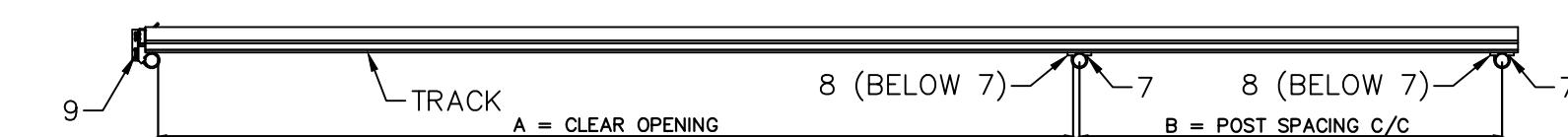
8 BOTTOM GUIDE
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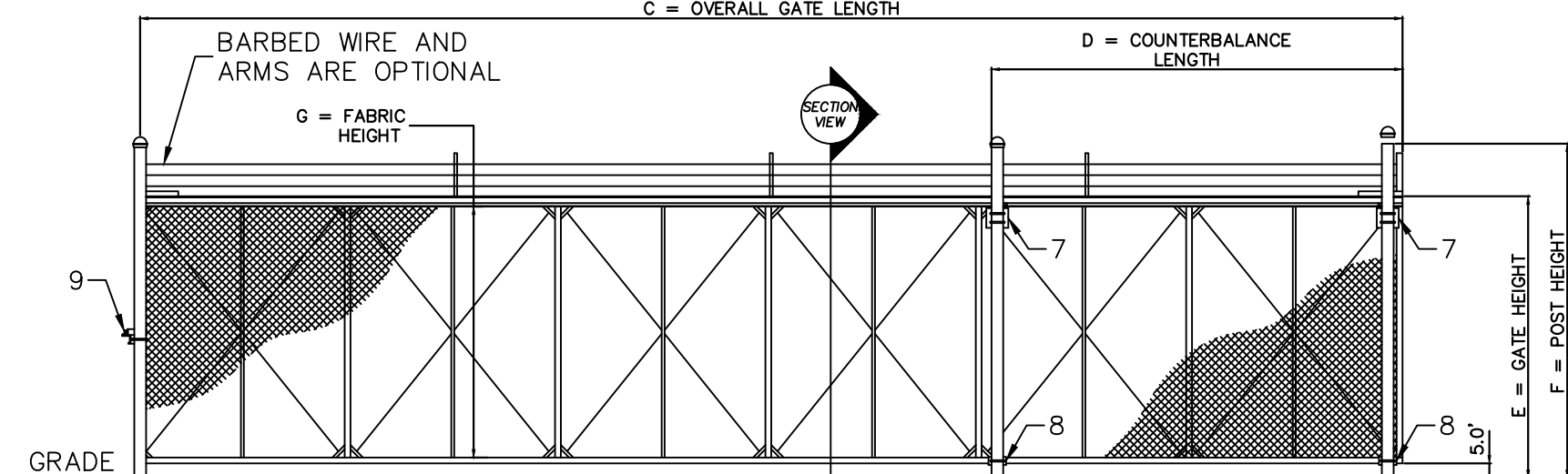
9 CATCH ASSEMBLY
Scale: None

CRITICAL DIMENSION CHART			
MARK	DESCRIPTION	FORMULA	DIM.
A	CLEAR OPENING	A	-
B	COUNTERBALANCE POST SPACING C/C	(A/2)-11"	-
C	OVERALL GATE LENGTH	A x 1.5	-
D	COUNTERBALANCE LENGTH	A x 0.5	-
E	NOMINAL GATE HEIGHT	E	-
F	POST HEIGHT (W BARB ARMS)	E + 1'-6"	-
G	FABRIC HEIGHT	E - 1'-0"	-

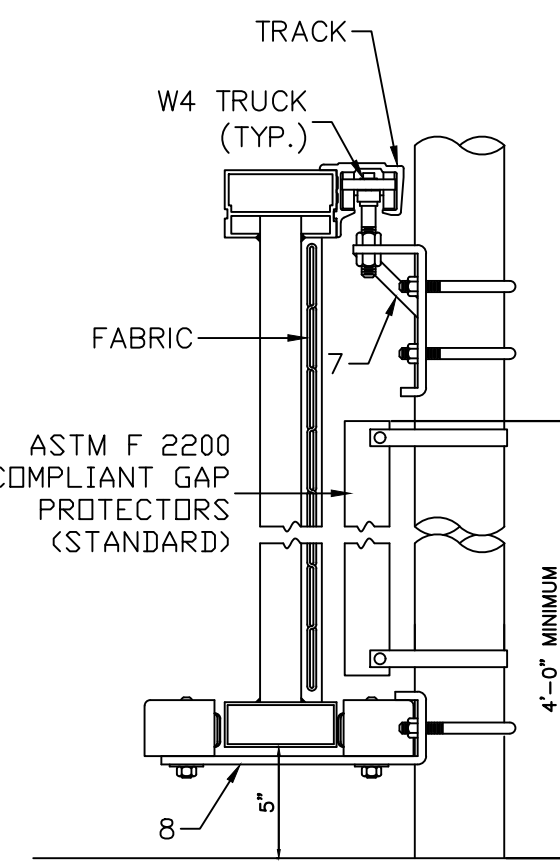
NOTES:
1. ALL FITTINGS STANDARD PROVIDED FOR 4" O.D. POSTS. OTHER SIZES AVAILABLE UPON REQUEST.
2. BARB ARMS (FOR BARBED WIRE) OPTIONAL.



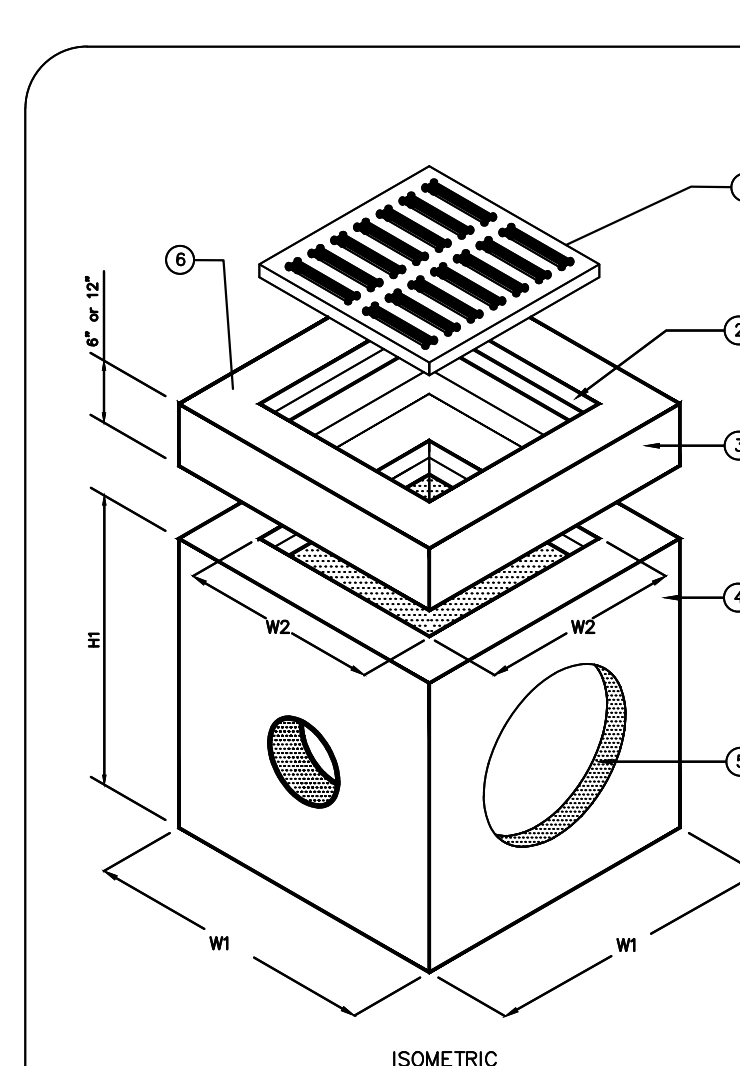
PLAN VIEW
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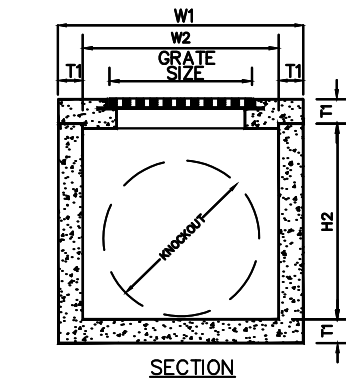
ELEVATION
Scale: None



ENLARGED SECTION
Scale: None



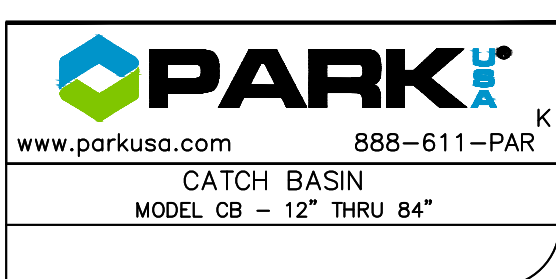
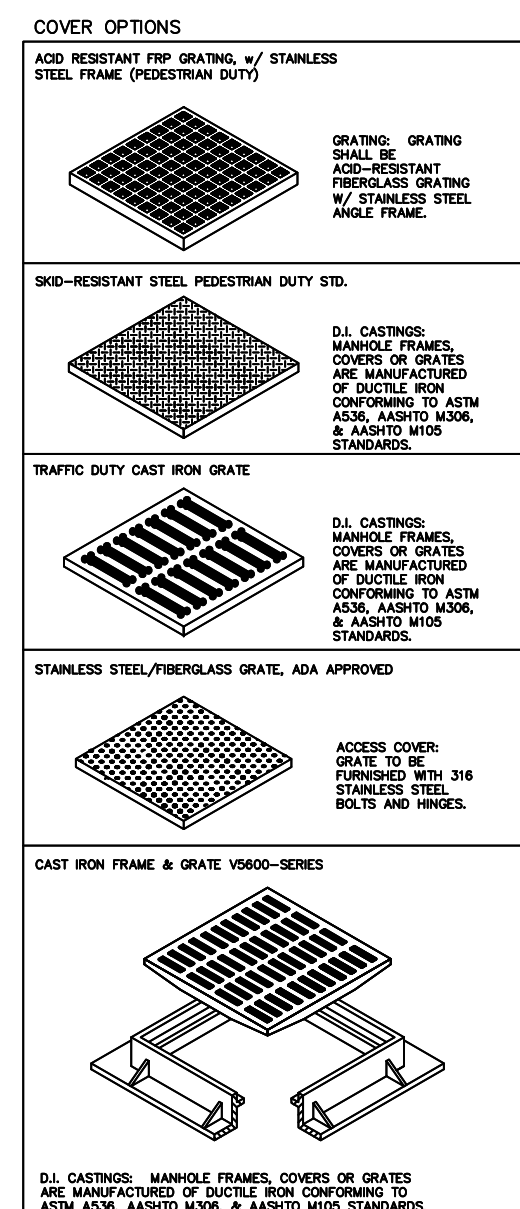
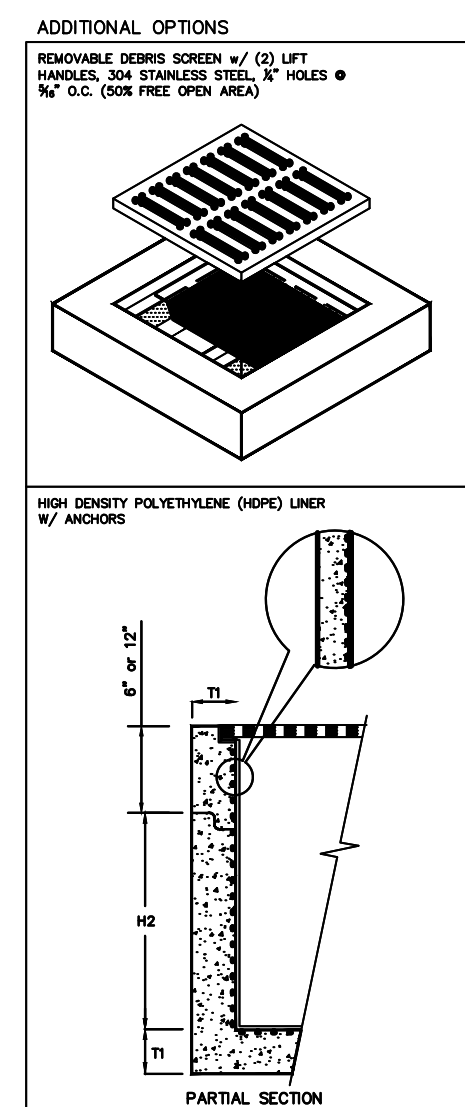
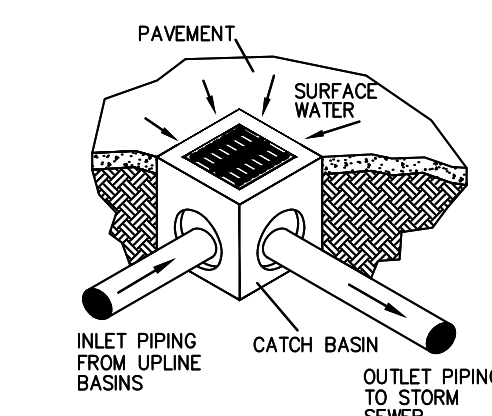
NOTE: KNOCKOUTS-STD. PENETRATIONS-OPTIONAL



MARK	QTY	DESCRIPTION
1	1	GRATE OR COVER AS REQUESTED, SEE OPTIONS
2	1	CAST-IN STEEL FRAME
3	1	OPTIONAL TOP/EXTENSION 6" TO 18"
4	1	PRECAST CONCRETE BASIN SECTION
5	4	KNOCKOUTS (STD) AND PENETRATIONS (OPT) AS REQUIRED, SEE KO DIMENSION FOR MAXIMUM
6	1	MANHOLE INDICATING: WPC: PARKUSA 888-611-PARK WWW.PARKUSA.COM MODEL: CB-01 DATE MANUFACTURED

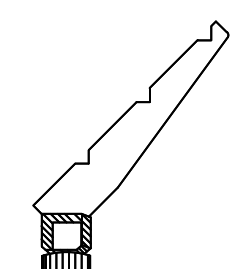
MODEL	W1	W2	H1	H2	T1	T2	KO	GRATE SIZE	OPEN AREA	WEIGHT LBS
CB-12	15"	10"	21"	18"	3"	2"	10"	12"x12"x1"	90	180
CB-14	20"	12"	28"	24"	4"	4"	12"	14"x14"x1"	120	600
CB-18	24"	16"	34"	30"	4"	4"	15"	18"x18"x1"	168	1,000
CB-20	28"	18"	34"	30"	4"	4"	17"	20"x20"x1"	170	1,335
CB-24	32"	22"	41"	38"	5"	5"	22"	24"x24"x2"	268	2,245
CB-27	37"	25"	42"	38"	6"	6"	24"	27"x27"x2"	350	2,875
CB-30	42"	30"	42"	38"	6"	6"	30"	32"x32"x2"	490	3,675
CB-36	48"	36"	42"	38"	6"	6"	32"	36"x36"x2"	693	4,585
CB-48	60"	48"	54"	48"	6"	6"	48"	36"x36"x2"	693	7,250
*CB-60	72"	60"	66"	60"	6"	6"	60"	36"x36"x2"	693	10,500
*CB-72	84"	72"	78"	72"	6"	6"	72"	36"x36"x2"	693	15,350
*CB-84	96"	84"	78"	72"	6"	6"	72"	36"x36"x2"	693	19,500

*KNOCKOUTS NOT AVAILABLE

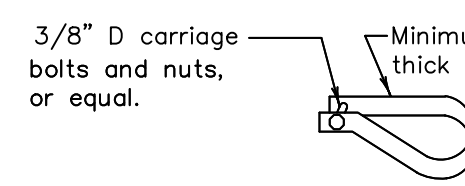


GENERAL NOTES

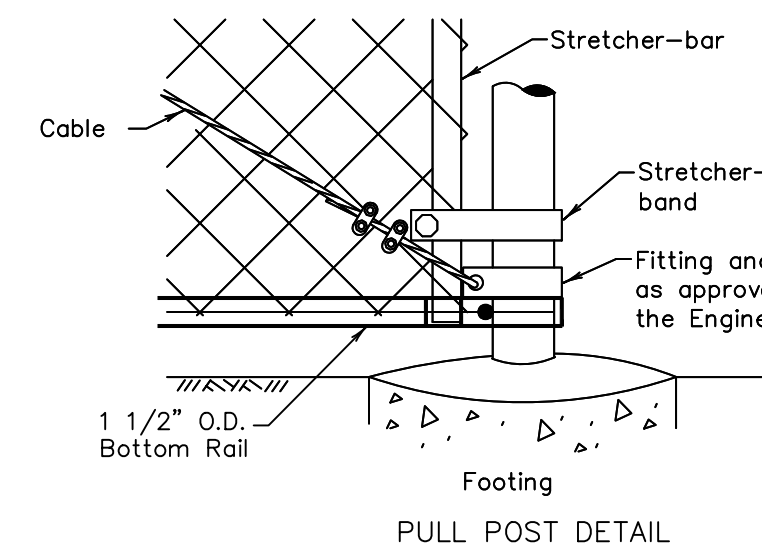
- Items hereon shall conform to Item 550, "Chain Link Fence."
- Typical installation plan may vary as shown elsewhere on the plans or as directed by the Engineer. Location of gates shown elsewhere on plans.
- Gate-frame members shall be welded at frame corners.
- All cable connections are to be made with two 3/8" cable clamps.
- One end of each turnbuckle may be attached directly to fittings with a clevis.
- Concrete footings are to be crowned at the top to shed water.
- Steel chain link fabric: 1 in. mesh, 9 gauge, top selva twist, bottom selva knuckle, class 1 zinc coating (1.2 oz/sf) per ASTM A392.
- Round steel pipe and rail-hot dipped galvanized per ASTM F1083
A. End, Corner, Pull Post: 2.875" min. O.D., Sch 40
B. Line Post: 2.375" min. O.D., Sch 40
C. Gate Post: 8" Sch 40
D. Top, Brace, Bottom and Intermediate Rail: 1.660" min O.D., Sch 40
- Metallic Coated Steel Tension Wire: 7 gauge, type II zinc-coated, class 4 - 1.2 oz/sf
- Metallic Coated Steel Barbed Wire: double 12.5 gauge twisted strand wire, 4 point 12.5 gauge round barbs spaced 5 inches on center, class III zinc coated (domestic)
- Tension and brace brands, terminal post caps, truss rods, tension bars, barbed wire arms, tie wire and hog rings shall have a minimum zinc coating of 1.2 oz/sf.
- Concrete for footing shall have a 28 day compressive strength of 3,000 PSI.
- For cantilever gates see Heavy Duty Cantilever Slide Gate detail.



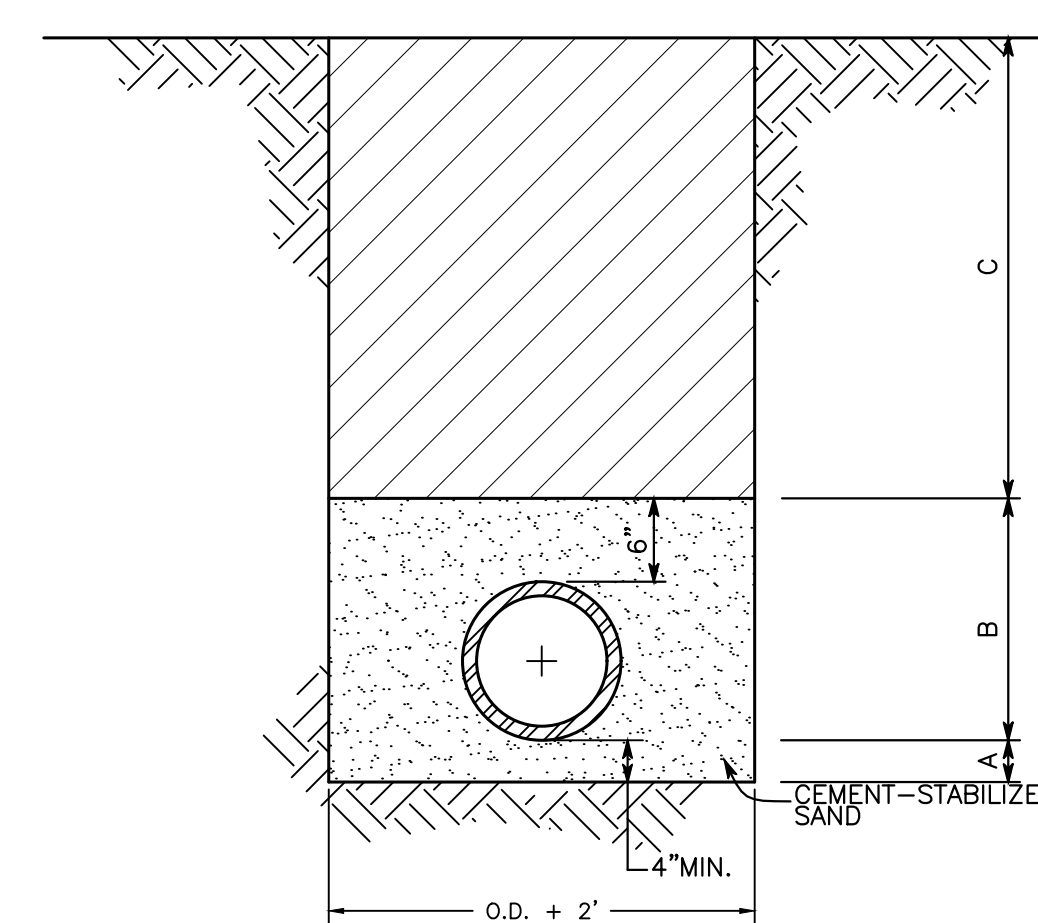
3 WIRE 45" BARBED WIRE ARM
Barbed wire arm related items shall conform to Item 550, "Chain Link Fence."



TYPICAL STRETCHER-BAR BAND



PULL POST DETAIL



CLASS "A" BEDDING
(FOR USE WITH STORM SEWER PIPE)

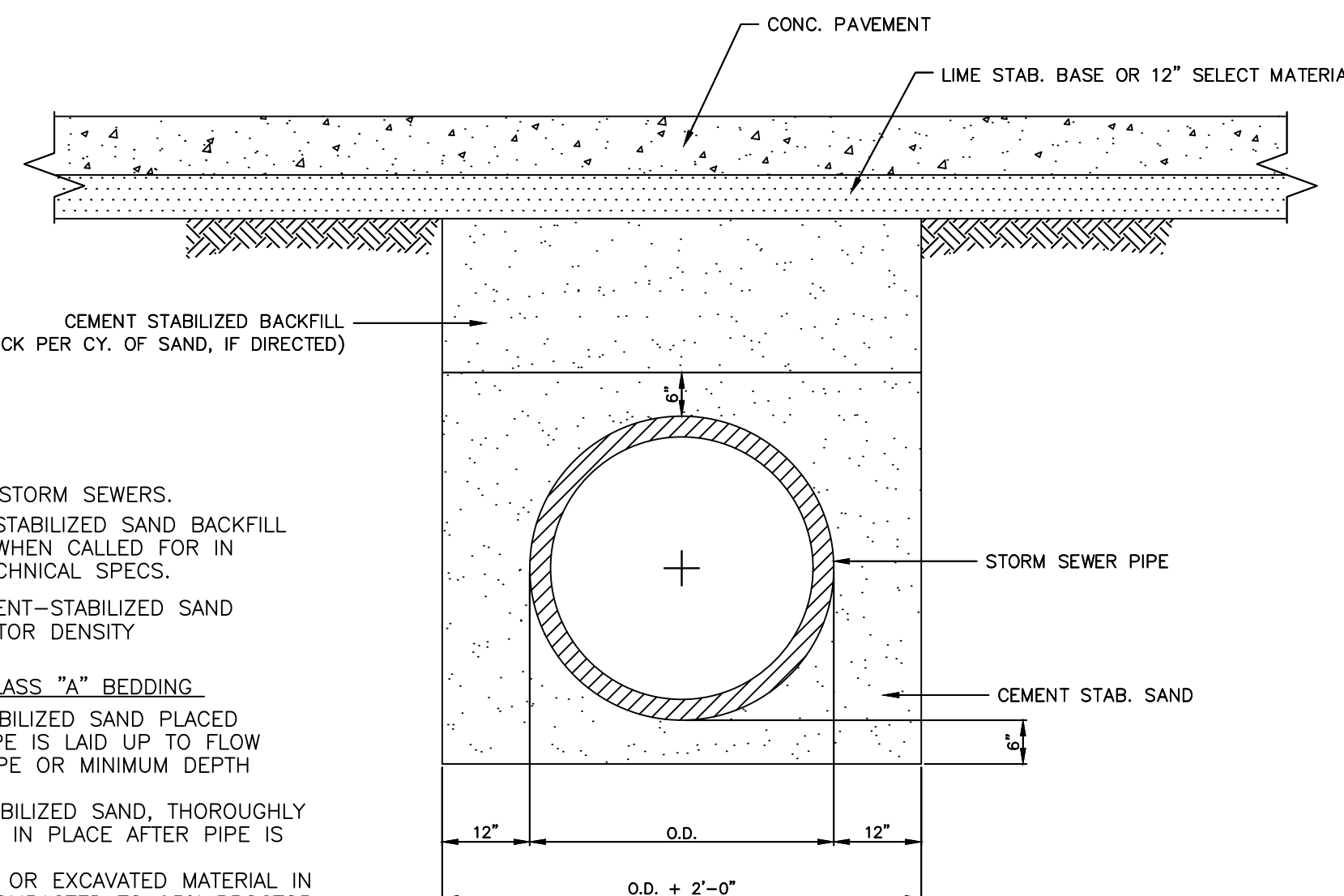
NOTE

- USE FOR ALL STORM SEWERS.
- USE CEMENT-STABILIZED SAND BACKFILL IN AREA "C" WHEN CALLED FOR IN PLANS OR TECHNICAL SPECS.

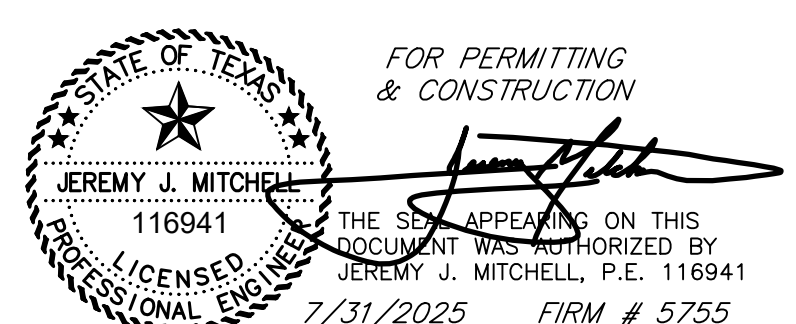
COMPACT CEMENT-STABILIZED SAND TO 90% PROCTOR DENSITY

NOTES FOR CLASS "A" BEDDING

- A - CEMENT-STABILIZED SAND PLACED BEFORE PIPE IS LAID UP TO FLOW LINE OF PIPE OR MINIMUM DEPTH OF 4".
- B - CEMENT-STABILIZED SAND, THOROUGHLY COMPACTED IN PLACE AFTER PIPE IS LAID.
- C - SELECT FILL OR EXCAVATED MATERIAL IN 8" LIFTS COMPACTED TO 95% PROCTOR PLACED NEXT DAY (OR LATER) AFTER PIPE IS LAID.

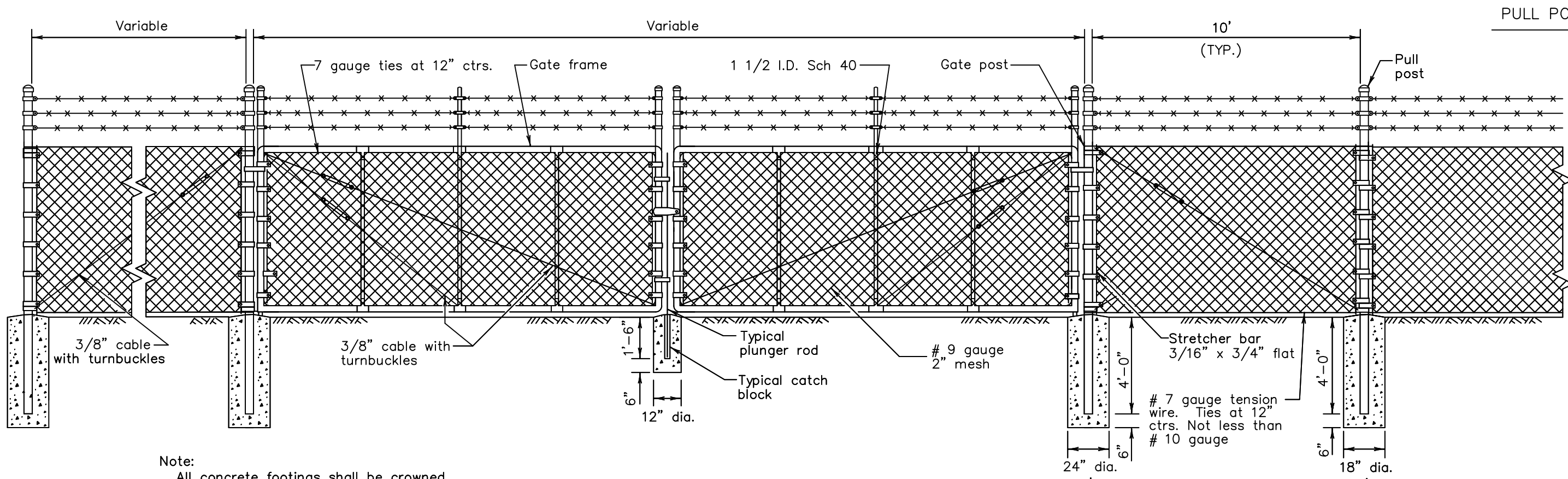


TYPICAL STORM SEWER BACKFILL UNDER PAVEMENT
N.T.S.



FOR PERMITTING & CONSTRUCTION

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY JEREMY J. MITCHELL, P.E. 116941 7/31/2025 FIRM # 5755



Note: All concrete footings shall be crowned a minimum 1" above the existing ground.

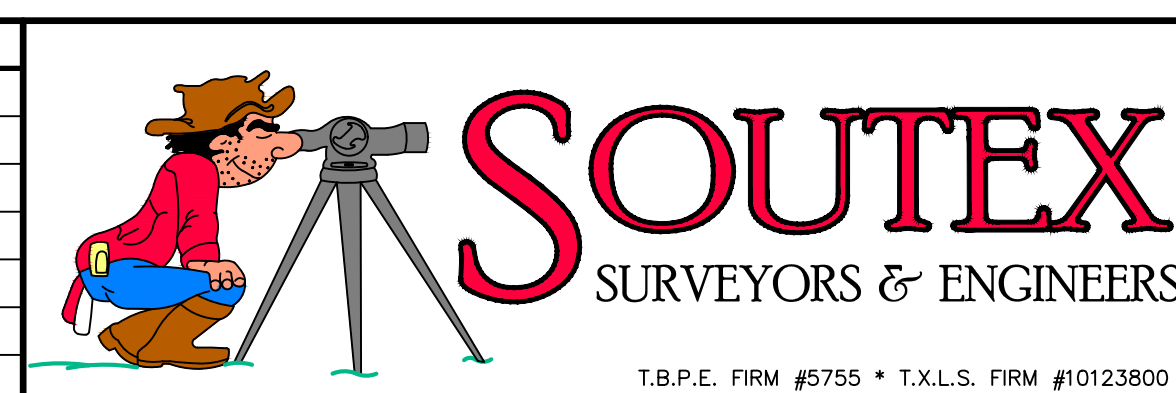
CHAIN LINK BARRIER FENCE (8 FT.)

CHAIN LINK FENCE DETAILS

TxDOT CLF-10 (MODIFIED)

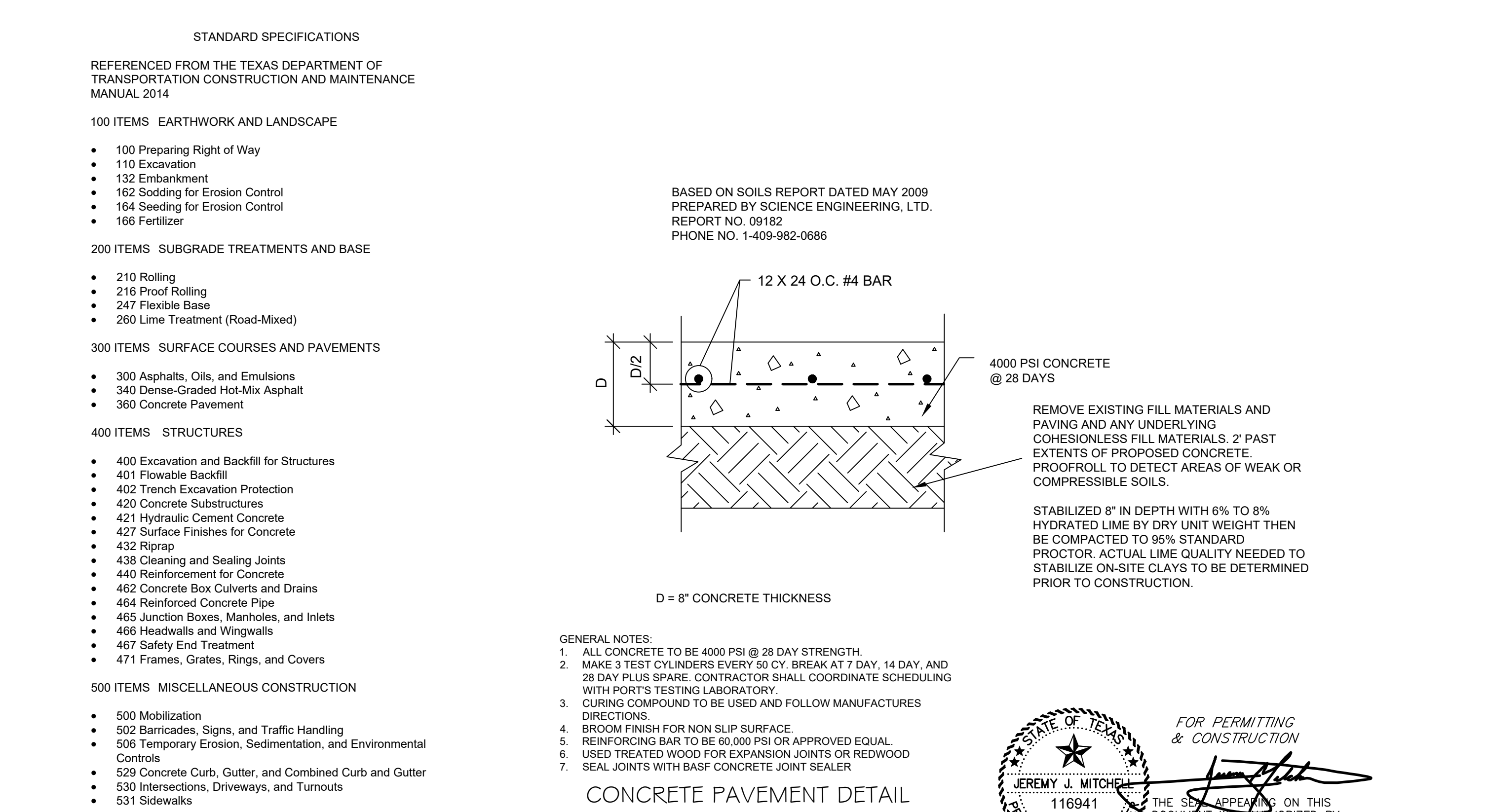
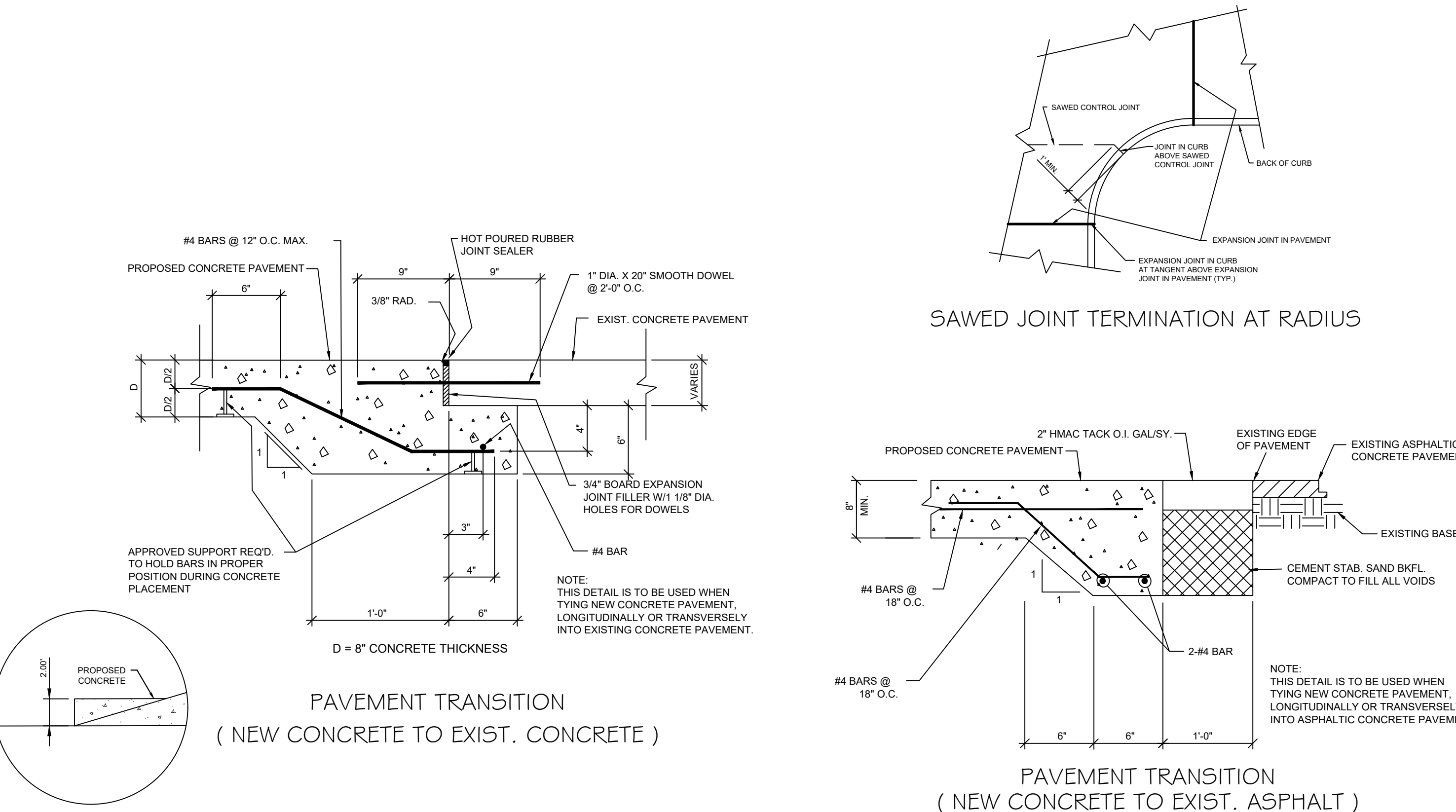
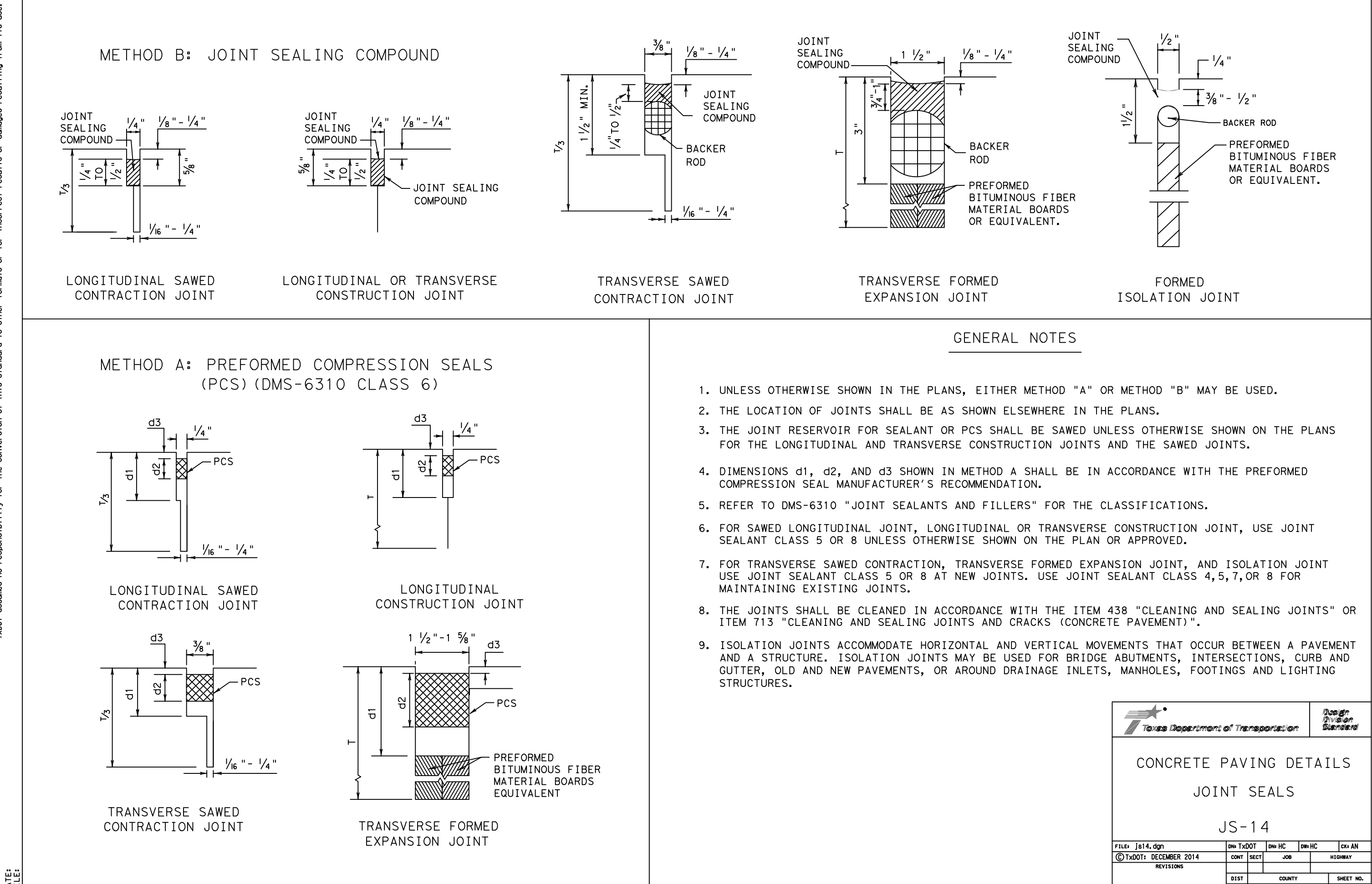
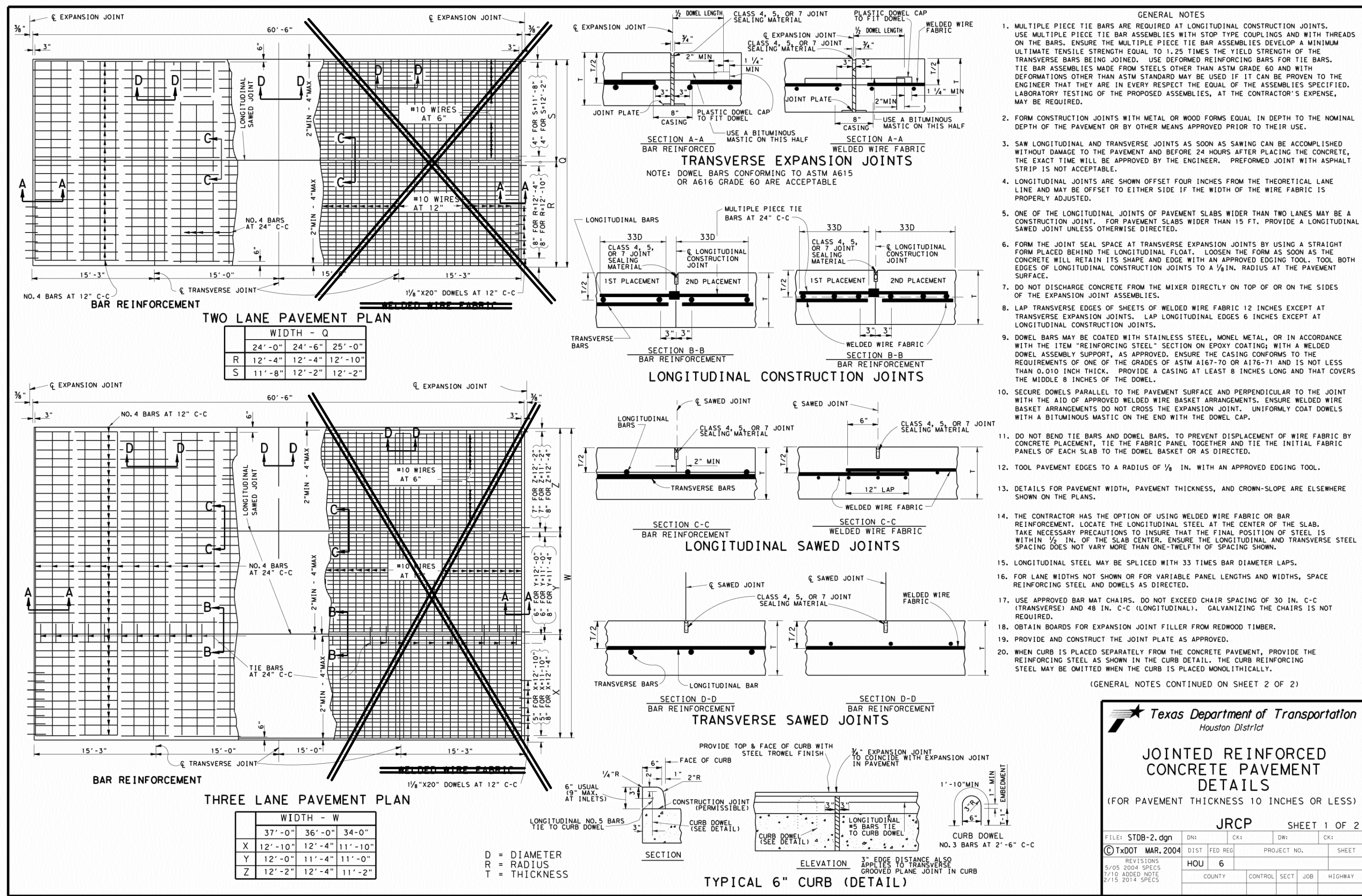


NO.	REVISION NOTES	DATE



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Port Arthur, Texas 77642
Tel. 409.985.2004
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SHEET TITLE		PROJ. NO: 23-0350
DETAILS		SCALE: 1" = 30'
PROJECT		PRINT DATE: 7/31/2025
RIDER 37 - PORT OF PORT ARTHUR TRUCK QUEUING AREA AND LAYDOWN YARD		DRAWN BY: NJ
221 HOUSTON AVENUE		CHECKED BY: JM
PORT ARTHUR, TEXAS 77641		APPROVED BY: JM
		SHEET 12 OF 14



- Rubbish found near waterways and ponds should be removed and disposed of properly to minimize the risk of pollution. Rubbish does not include brush piles or snags.

Bird BMPs

- Not disturbing, destroying, or removing active nests, including ground nesting birds, during the nesting season;
- Avoiding the removal of unoccupied, inactive nests, as practicable;
- Preventing the establishment of active nests during the nesting season of Port facilities and structures proposed for replacement or repair;
- Not collecting, capturing, relocating, or transporting birds, eggs, young, or active nests without a permit.

Species of Concern:

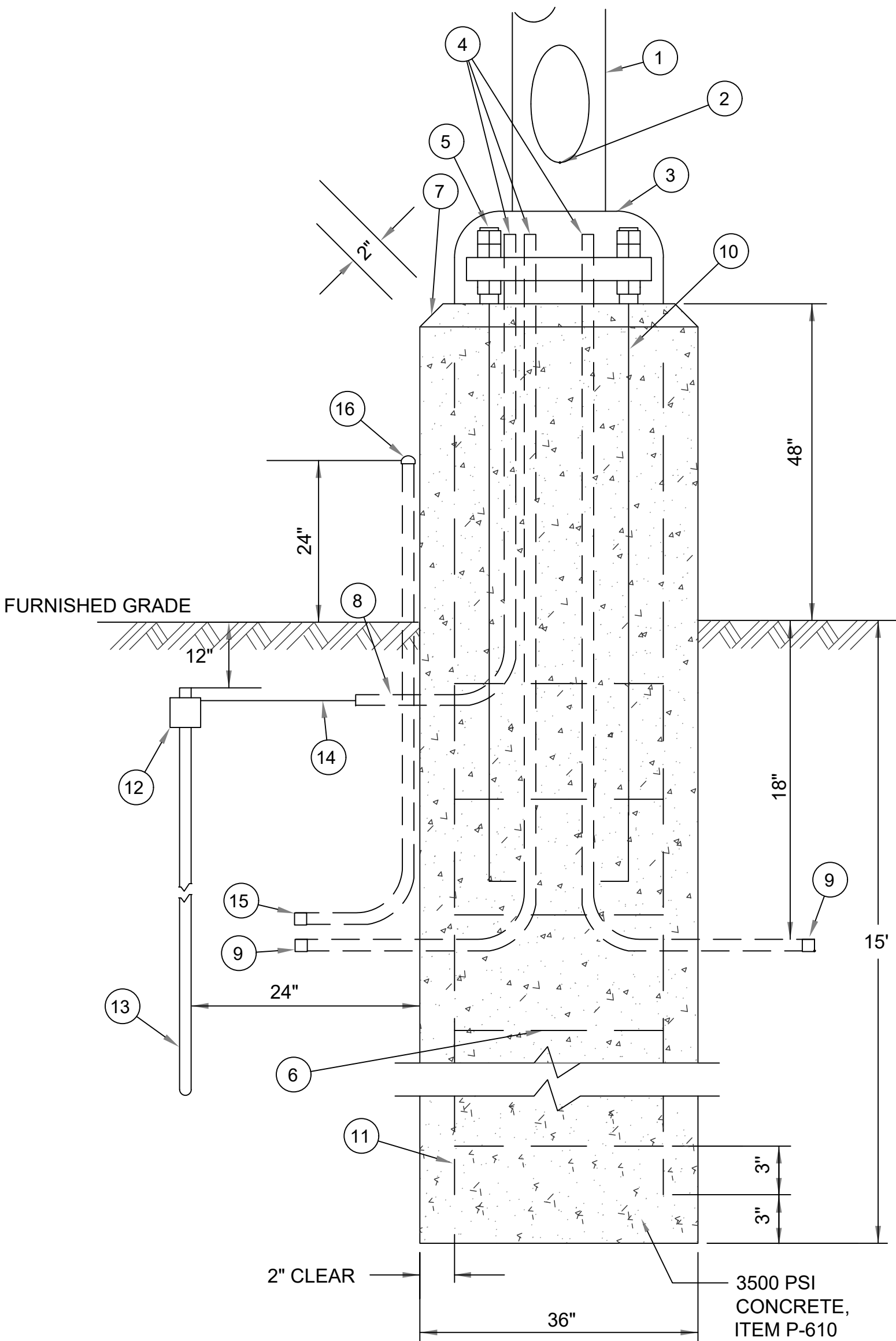
- Bald Eagle
- Golden Eagle
- West Indian Manatee
- Eastern Black Rail
- Piping Plover
- Red Know
- Whooping Crane
- Green Sea Turtle
- Hawksbill Sea Turtle
- Kemp's Ridley Sea Turtle
- Leatherback Sea Turtle
- Loggerhead Sea Turtle
- Monarch Butterfly

If any listed species of concern are observed, work will cease in the area, no species or habitat will be disturbed, and the Project Engineer/Inspector will be notified immediately.

POLE BASE NOTES

- LIGHT POLE. REFER TO LIGHT FIXTURE SCHEDULE FOR MORE INFORMATION.
- WIRING ACCESS. PROVIDE INTERIOR GROUNDING LUG ACCESSIBLE FROM OPENING. PROVIDE STAINLESS STEEL COVER WITH STAINLESS STEEL SCREWS.
- FULL BASE COVER. MATCH MATERIAL OF POLE, EXCEPT WHERE POLE IS CONCRETE, BASE COVER SHALL BE STAINLESS STEEL.
- CONNECT CONDUITS TO GROUNDING LUG AND GROUNDING CONDUCTOR TO GROUND ROD.
- PROVIDE BOTTOM NUT FOR LEVELING AND DOUBLE NUTS ON TOP.
- NO. 4 STEEL REINFORCING TIES ON 12" CENTERS.
- CHAMFER EDGES ON BASE.
- 1" RIGID GALVANIZED CONDUIT
- RIGID GALVANIZED STEEL 2" CONDUIT 12" PAST EDGE OF CONCRETE BASE. PROVIDE CONDUIT TO PVC DUCT ADAPTER. SEE PLANS FOR NUMBER REQUIRED.
- GALVANIZED STEEL ANCHOR BOLTS. AS REQUIRED BY MANUFACTURER FURNISHING POLE. ANCHOR BOLTS SHALL BE SET VERTICAL.
- EIGHT NO. 4 STEEL REINFORCING RODS.
- THERMOWELD CONNECTOR.
- 3/4" X 10'-0" COPPER CLAD STEEL GROUND ROD.

- NO. 6 BARE STRANDED COPPER GROUND WIRE. CONNECT TO GROUND ROD, CONDUITS AND GROUNDING LUG.
- RIGID GALVANIZED STEEL 1" CONDUIT 12" PAST EDGE OF CONCRETE BASE. PROVIDE CONDUIT TO PVC DUCT ADAPTER. SEE PLANS FOR NUMBER REQUIRED.
- RIGID GALVANIZED STEEL 1" CONDUIT 24" ABOVE FINISHED GRADE AND CAPPED FOR FUTURE USE. SEE EL.1.01 FOR LOCATION OF POLES TO INCLUDE THIS ITEM.



1 LIGHT POLE BASE DETAIL
E-3.02 SCALE: N.T.S.



NO.	REVISION NOTES	DATE

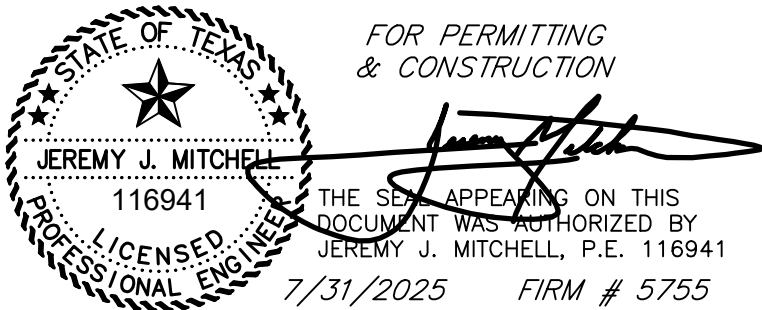
SOUTEX
SURVEYORS & ENGINEERS

T.B.P.E. FIRM #5755 • T.X.L.S. FIRM #10123800

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SHEET TITLE
DETAILS — EPIC NOTES
PROJECT
RIDER 37 — PORT OF PORT ARTHUR TRUCK QUEUING AREA AND LAYDOWN YARD 221 HOUSTON AVENUE PORT ARTHUR, TEXAS 77641

PROJ. NO: 23-0350
SCALE: 1" = 30'
PRINT DATE: 7/31/2025
DRAWN BY: NJ
CHECKED BY: JM
APPROVED BY: JM
SHEET 14 OF 14



FOR PERMITTING
& CONSTRUCTION

THE SEAL APPEARING ON THIS
DOCUMENT WAS AUTHORIZED BY
JEREMY J. MITCHELL, P.E. 116941
7/31/2025 FIRM # 5755

EPIC: Environmental Permits Issues and Commitments

Executive Order 13112 for Invasive Species:

- The project will conform with Executive Order 13112 on Invasive Species. Seed with TxDOT approved seeding specifications that, to the extent practicable, is in compliance with EO 13112 and would be done where possible. Abutting grasses within the right-of-way are expected to re-establish throughout the project length. Soil disturbance would be minimized to ensure that invasive species would not establish within the right-of-way.

Executive Order 13186 for Protection of Migratory Birds:

- The project will conform with Executive Order 13186 for Protection of Migratory Birds. The intent of EO 13186 is to support the conservation of habitats, restore and enhance habitats, prevent /abate the pollution or detrimental alteration of migratory bird habitats as practical, and other associated items as published in associated Memorandums of Understanding (by applicable federal agencies).

Executive Memorandum on Beneficial Landscaping:

- The project will conform to the Executive Memorandum on Beneficial Landscaping. Seeding and re-vegetation of disturbed areas will be accomplished according to TxDOT Standards and Specifications. Regionally native, habitat appropriate species should be utilized and water efficient practices such as mulching and erosion control should be implemented.

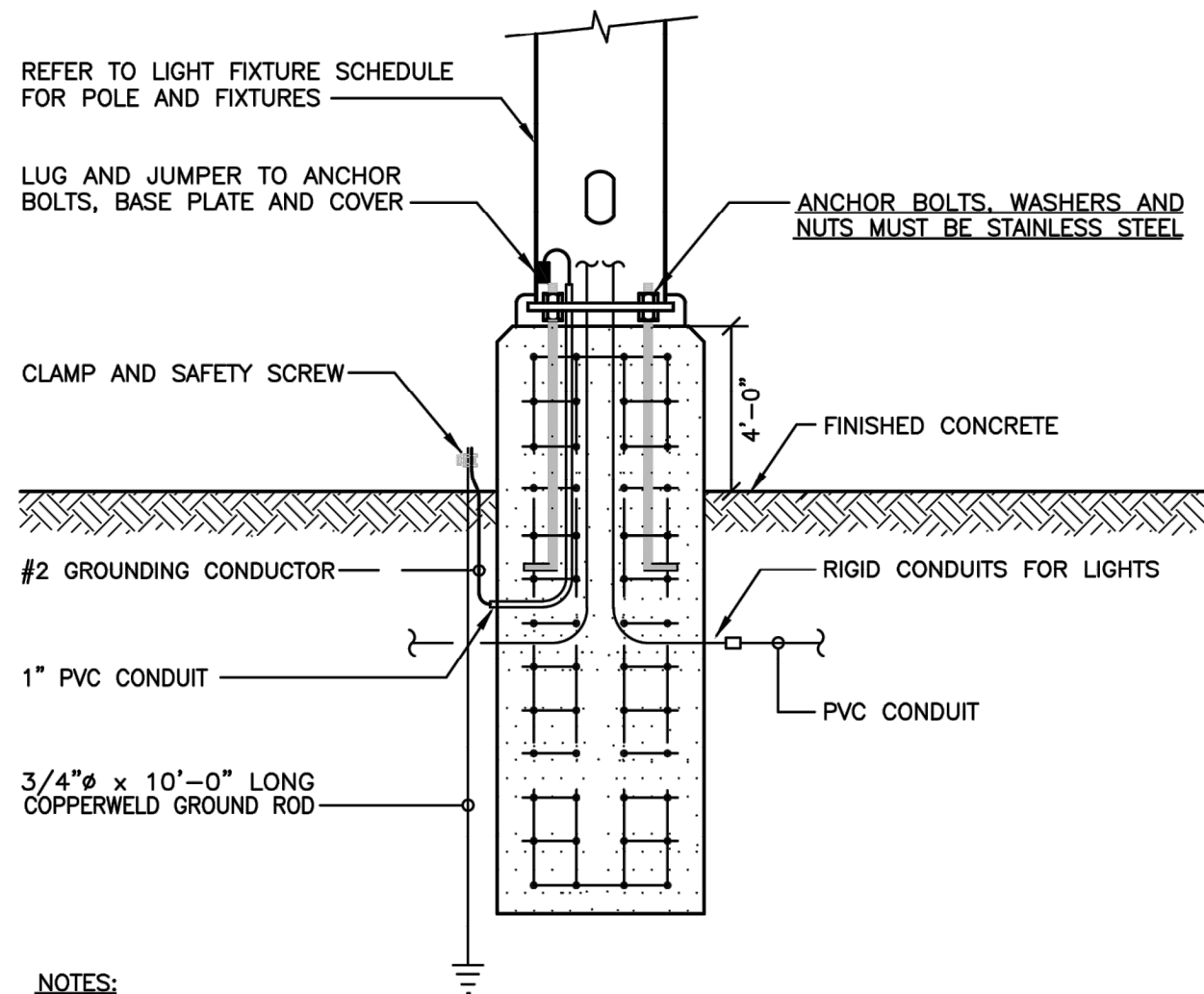
Bald and Golden Eagle Protection Act

- Bald eagles are known to occur in Jefferson County. If eagle nests are observed near the project area, contact the Project inspector immediately.
- The bald eagle (*Haliaeetus leucocephalus*) is protected by the Bald and Golden Eagle Protection Act (Eagle Act) and the Migratory Bird Treaty Act (MBTA). The MBTA and the Eagle Act protect bald eagles from a variety of harmful actions and impacts. The U.S. Fish and Wildlife Service (Service) developed the National Bald Eagle Management Guidelines to advise landowners, land managers, and others who share public and private lands with bald eagles when and under what circumstances the protective provision of the Eagle Act may apply to their activities. A variety of human activities can potentially interfere with bald eagles, affecting their ability to forage, nest, roost, breed, or raise young. The Guidelines are intended to help people minimize such impacts to bald eagles, particularly where they may constitute "disturbance," which is prohibited by the Eagle Act.
- The National Bald Eagle Management Guidelines can be found in their entirety at <http://www.fws.gov/midwest/eagle/pdf/NationalBaldEagleManagementGuidelines.pdf>

The following Best Management Practice (BMPs) must be implemented:

Water Quality BMPs

- Once construction is complete in an area, the disturbed areas shall immediately be permanently seeded. Once disturbed areas have been revegetated, remove silt fence and accumulated sediment to reduce wildlife barriers and hazards.



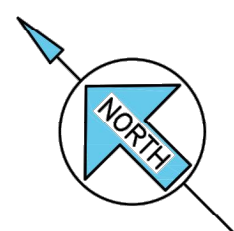
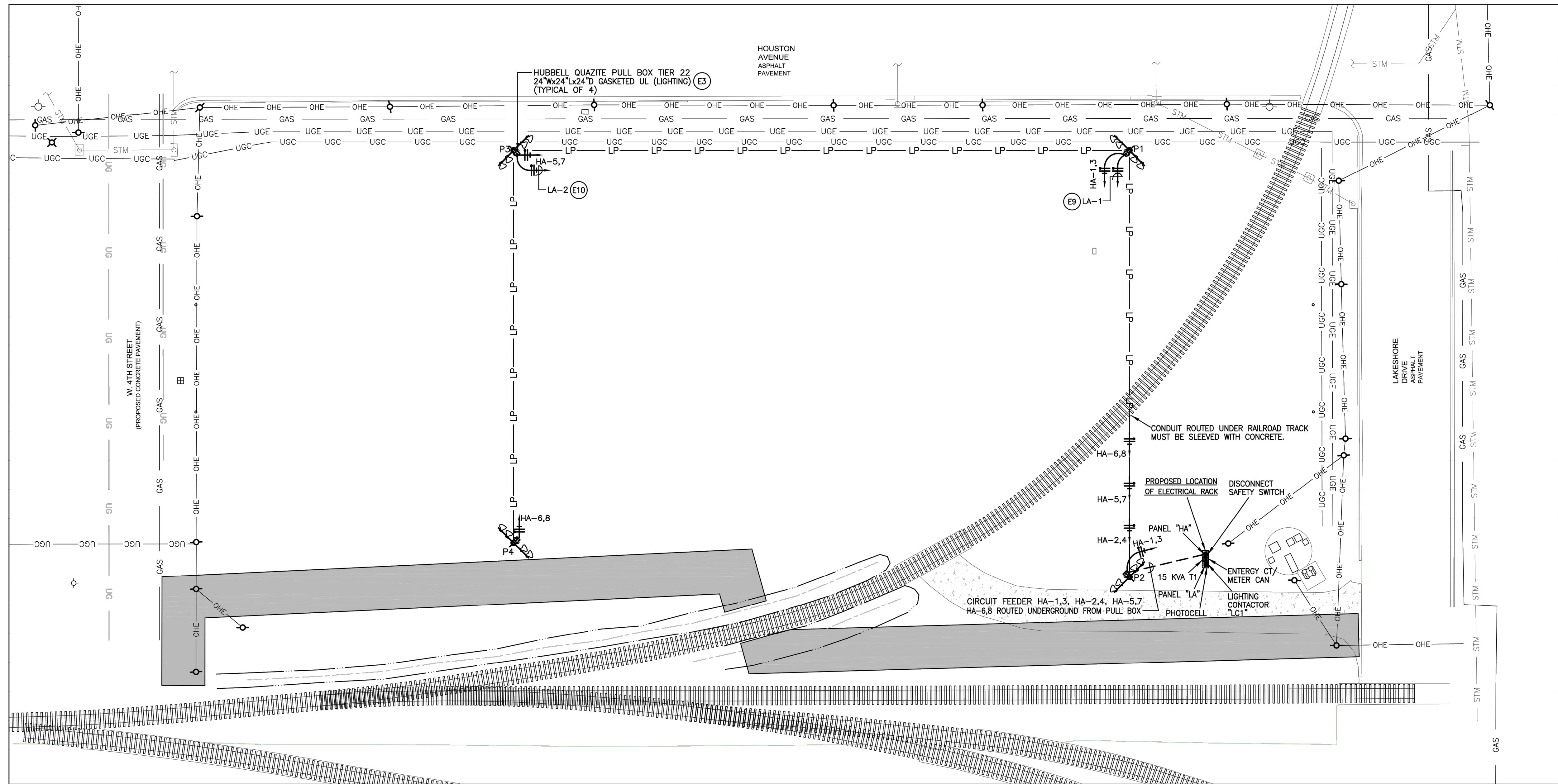
2 LIGHT POLE FOUNDATION

SCALE: NOT TO SCALE

LIGHT FIXTURE SCHEDULE					
MARK	MANUFACTURER	MODEL NO.	LAMPS	VOLTAGE	REMARKS
P1-P4	COOPER-LUMARK KW	(5)-NFFLD-L-C150-D-480V-66 -S-CB-7050-TS2HW/NFFLD-CB RTSP35-14.0-7-G-1GSSS WITH CXAS180-30-DW-G-GMT ANCHOR BOLT: 1.50x54x6 BOLT CIRCLE: 20 RATED 145 MPH	(5)-316W LED (INPUT WATTS = 1,580 EACH POLE)	480	SOLID STATE LED FLOODLIGHT WITH HEAVY-DUTY DIE-CAST ALUMINUM HOUSING, VACUUM METALIZED REFLECTOR, INTEGRAL LED DRIVER, TOP AND SIDE VISORS, SUPTIFITER MOUNTING, CARBON BRONZE FINISHED, FIVE-YEAR WARRANTY AND UL LISTED FOR WET LOCATIONS. 35 FT. GALVANIZED ROUND TAPERED STEEL POLE WITH BASE PLATE, ANCHOR BOLTS & GASKETED HANDHOLE AND HOT-DIP GALVANIZED CROSSARM. ENGINEER CERTIFIED FOUNDATION BY OTHERS.
NOTES: 1. FIELD CONFIRM EXACT LOCATION OF POLE #1 TO POLE #4 WITH POLE FOUNDATION PRIOR TO MAKE FINAL INSTALLATION OF ELECTRICAL SYSTEMS.					

ELECTRICAL NOTES

- E1 COORDINATE EXACT LOCATION OF POLES/LIGHT FIXTURES WITH ACTUAL PLACEMENT OF POLE FOUNDATION INSTALLED BY OTHERS. FIELD CONFIRM EXACT LOCATION OF QUAZITE PULL BOXES, ROUTING OF CONDUIT/CONDUCTORS AND SECURITY CAMERA LOCATION AND REQUIREMENTS WITH OWNER PRIOR TO SUBMIT BIDDING/MAKE FINAL INSTALLATION.
- E2 INSTALL INTERMATIC PHOTO ELECTRIC CONTROL SERIES LED4536SC WITH COMPLETE OF ACCESSORIES AND ADJUSTABLE STEM TO CONTROL HA-1 TO HA-8 THROUGH 12 POLES. 30 AMP, 277V, NEMA 1, MECHANICALLY HELD LIGHTING CONTACTOR "LC1" WITH CONTROL RELAY.
- E3 FURNISH AND INSTALL HUBBELL QUAZITE PULL BOX TIER 22 U.L. LISTED WITH CLOSED BOTTOM, KNOCKOUTS, STAINLESS STEEL BOLTS/SCREWS, CEMENT GRAY COLOR, GASKETED COVER AND COVER LOGOS "ELECTRIC". ALL CONDUIT PENETRATIONS TO PULL BOX MUST BE WATERTIGHT. FIELD COORDINATE AND CONFIRM EXACT PLACEMENT AND ELEVATION OF PULL BOX PRIOR TO MAKE FINAL INSTALLATION.
- E4 THE CONTRACT SHALL DO ALL CUTTING & PATCHING OF THE EXISTING CONSTRUCTION WORK WHICH MAY BE REQUIRED FOR THE PROPER INSTALLATION OF THE ELECTRICAL WORK. ALL PATCHING SHALL BE OF THE SAME MATERIALS, WORKMANSHIP AND FINISH FINISH AS, AND SHALL ACCURATELY MATCH ALL SURROUNDING WORK.
- E5 NOTIFY THE ENGINEER OF ANY & ALL CONFLICTS IN AMPL TIME TO AVOID UNWARRANTED CHANGES IN ANY WORK.
- E6 OBTAIN ALL APPLICABLE PERMITS AND PAY ALL FEES CHARGED BY CITY OF PORT ARTHUR.
- E7 PRIOR TO SUBMITTING A PROPOSAL, VISIT THE JOB SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND EQUIPMENT FOR THE WORK TO BE ACCOMPLISHED.
- E8 THE ELECTRICAL SYSTEMS IN THEIR ENTIRETY SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70, 2023 NATIONAL ELECTRICAL CODE AND ALL OTHER GOVERNING CODES AND AUTHORITIES.
- E9 INSTALL STAINLESS STEEL JUNCTION BOX WITH POWER CIRCUIT INDICATED AND MOUNT ON LIGHT POLE "P1" FOR FIELD DISTRIBUTION BOX (FDB) THAT FEED THE CCTV. FIELD COORDINATE AND CONFIRM WITH OWNER'S CCTV SYSTEM INSTALLER EXACT MOUNTING HEIGHT AND REQUIREMENTS PRIOR TO MAKE FINAL INSTALLATION.
- E10 INSTALL STAINLESS STEEL JUNCTION BOX WITH POWER CIRCUIT INDICATED AND MOUNT ON LIGHT POLE "P3" FOR FIELD DISTRIBUTION BOX (FDB) THAT FEED THE CCTV. FIELD COORDINATE AND CONFIRM WITH OWNER'S CCTV SYSTEM INSTALLER EXACT MOUNTING HEIGHT AND REQUIREMENTS PRIOR TO MAKE FINAL INSTALLATION.



1 ELECTRICAL SITE PLAN

SCALE: 1" = 30'-0"

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SHEET TITLE
ELECTRICAL PLAN
PROJECT
RIDER 37 - PORT OF PORT ARTHUR TRUCK
QUEUING AREA AND LAYDOWN YARD
221 HOUSTON AVENUE
PORT ARTHUR, TEXAS 77641

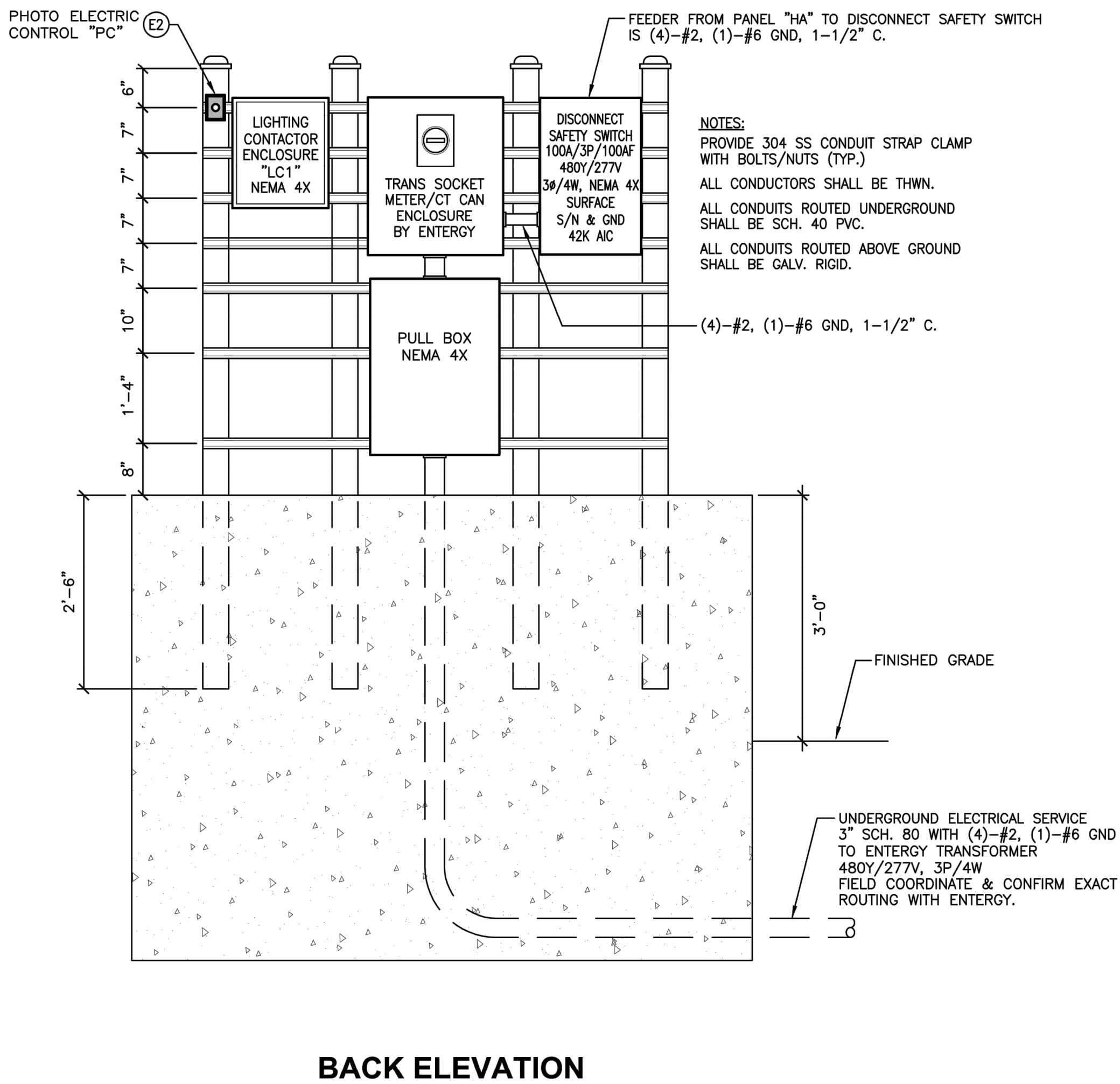
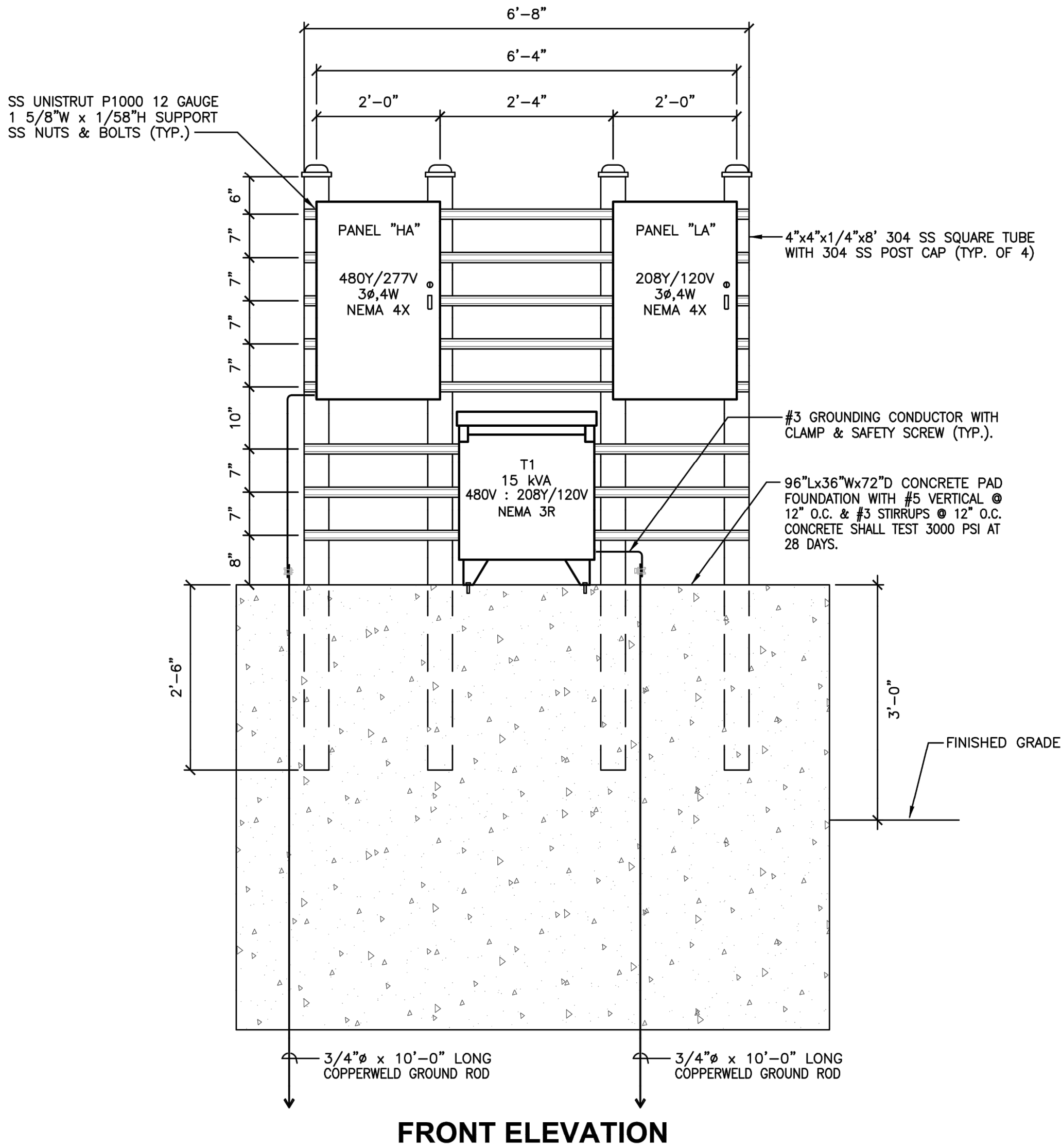
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SHEET E1

PANEL "HA" SCHEDULE																			
MOUNTING: SURFACE - RACK				TYPE: SQUARE D				FAULT CURRENT: 6,340 A				MAIN: MLO BUS: 100 A FEED: SIDE							
VOLTS: 480Y/277 Vac BOLT-On				ENCLOSURE: NEMA 4X WITH GROUND BAR				FAULT BRACING: 42K AC SC FULLY RATED				MAIN SIZE BREAKER: NONE BUS: COPPER							
PHASE: 3 WIRE: 4 Hz.: 60				ISOLATED GROUND: NONE				TVSS/SPD: NONE				LOCATION: ELECTRICAL RACK ON SITE							
DESCRIPTION	CONDUIT SIZE	WIRE & IG/GROUND SIZE	LOAD (kVA)	BREAKER	ØA	ØB	ØC	BREAKER	LOAD (kVA)	WIRE & IG/GROUND SIZE	DESCRIPTION	CONDUIT SIZE	WIRE & IG/GROUND SIZE	LOAD (kVA)	BREAKER	ØA	ØB	ØC	BREAKER
FLOODLIGHTS, P1 RIDER 37	2"	(2)-#8, (1)-#10	0.790	20/2	1			2	20/2	0.790	FLOODLIGHTS, P2, RIDER 37	2"	(2)-#8, (1)-#10	0.790	20/2	1			2
"	-	-	0.790	-	3			4	-	0.790	"	-	-	-	-	4			4
FLOODLIGHTS, P3, RIDER 37	2"	(2)-#8, (1)-#10	0.790	20/2	5			6	20/2	0.790	FLOODLIGHTS, P4, RIDER 37	2"	(2)-#8, (1)-#10	0.790	20/2	5			6
"	-	-	0.790	-	7			8	-	0.790	"	-	-	-	-	8			8
LIGHTING CONTACTOR "LC1" & PHOTOCELL	3/4"	(2)-#12, (1)-#12	0.100	20/1	9			10	20/1		SPARE				10	20/1			10
SPARE				20/1	11			12	20/1		"				12	20/1			12
"				20/1	13			14	20/1		"				14	20/1			14
"				20/1	15			16	20/1		"				16	20/1			16
"				20/1	17			18	20/1		"				18	20/1			18
"				20/1	19			20	25/3	0.800	"				20	25/3			20
"				20/1	21			22	-	0.800	"				22	-			22
"				20/1	23			24	-	0.800	"				24	-			24
NOTES:				TOTAL KVA ØA = 3.960				TOTAL KVA ØB = 2.480				TOTAL KVA ØC = 2.380							
① ALL PANELS TO BE IDENTIFIED WITH ENGRAVED PHENOLIC RESIN PLACARDS.				TOTAL CONNECTED LOAD = 8.820 KVA				10.6 AMPS											
② PANEL CIRCUIT SCHEDULES TO BE TYPED, NOT HANDWRITTEN, ON PANEL MANUFACTURERS SUPPLIED TEMPLATE.				TOTAL DEMAND LOAD = 10.425 KVA				2023 NEC ARTICLE 215.3				ARTICLE 220 II & III							
				12.5 AMPS															

PANEL "LA" SCHEDULE																			
MOUNTING: SURFACE				TYPE: SQUARE D				FAULT CURRENT: 3,520 A				MAIN: MCB BUS: 100 A FEED: BOTTOM							
VOLTS: 208Y/120 Vac BOLT-On				ENCLOSURE: NEMA 4X WITH GROUND BAR				FAULT BRACING: 10K AC SC FULLY RATED				MAIN SIZE BREAKER: 60 A BUS: COPPER							
PHASE: 3 WIRE: 4 Hz.: 60				ISOLATED GROUND: NONE				TVSS/SPD: NONE				LOCATION: ELECTRICAL RACK ON SITE							
DESCRIPTION	CONDUIT SIZE	WIRE & IG/GROUND SIZE	LOAD (kVA)	BREAKER	ØA	ØB	ØC	BREAKER	LOAD (kVA)	WIRE & IG/GROUND SIZE	DESCRIPTION	CONDUIT SIZE	WIRE & IG/GROUND SIZE	LOAD (kVA)	BREAKER	ØA	ØB	ØC	BREAKER
FIELD DISTRIBUTION BOX (FDB) CCTV, P1	2"	(2)-#4, (1)-#8	1.200	30/1	1			2	30/1	1.200	FIELD DISTRIBUTION BOX (FDB) CCTV, P3	2"	(2)-#4, (1)-#8	1.200	30/1	1			2
SPARE				20/1	3			4	20/1		SPARE				20/1	3			4
"				20/1	5			6	20/1		"				20/1	5			6
SPACE				20/1	7			8	20/1		SPACE				20/1	7			8
"				20/1	9			10	20/1		"				20/1	9			10
"				20/1	11			12	20/1		"				20/1	11			12
"				20/1	13			14	20/1		"				20/1	13			14
"				20/1	15			16	20/1		"				20/1	15			16
"				20/1	17			18	20/1		"				20/1	17			18
"				20/1	19			20	20/1		"				20	20/1			20
"				20/1	21			22	20/1		"				22	20/1			22
"				20/1	23			24	20/1		"				24	20/1			24
NOTES:				TOTAL KVA ØA = 2.400				TOTAL KVA ØB = 0.000				TOTAL KVA ØC = 0.000							
① ALL PANELS TO BE IDENTIFIED WITH ENGRAVED PHENOLIC RESIN PLACARDS.				TOTAL CONNECTED LOAD = 2.400 KVA				6.7 AMPS											
② PANEL CIRCUIT SCHEDULES TO BE TYPED, NOT HANDWRITTEN, ON PANEL MANUFACTURERS SUPPLIED TEMPLATE.				TOTAL DEMAND LOAD = 2.400 KVA				2023 NEC ARTICLE 215.3				ARTICLE 220 II & III							
				6.7 AMPS															

③ FEEDER FROM TRANSFORMER "T1" TO PANEL "LA" IS (4)-#6, (1)-#8 GND, 1-1/4" C. RIGID GALV.



LOAD ANALYSIS	
LOADS: VOLT-AMPERES (VA)	VA
LIGHTING LOADS (NEC 2014 ARTICLE 220.12)	8,025
RECEPTACLE LOADS (NEC 2023 ARTICLE 220.14 (K))	2,400
TOTAL DEMAND LOAD	10,425
REMARKS:	
TOTAL CALCULATED DEMAND LOAD IN AMPS (SERVICE VOLTAGE IS 480Y/277VAC 3P/4W) = 10,425/(480 x 1.732) = 12.5 AMPS. THEREFORE, 100 AMPS SERVICE IS SELECTED.	

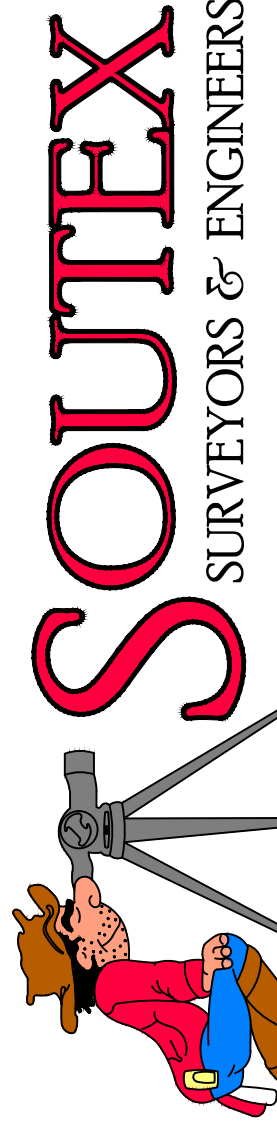
ELECTRICAL RISER NOTES	
ER1	COORDINATE AND CONFIRM THE EXACT LOCATION OF ELECTRICAL PANELS RACK WITH OWNER AND/OR GENERAL CONTRACTOR.
ER2	FIELD VERIFY AND COORDINATE THE EXACT ROUTING OF ALL CONDUITS WITH ALL TRADES PRIOR TO MAKE FINAL INSTALLATION.
ER3	USE AND BOND TOGETHER GROUNDING ELECTRODES SUCH AS METAL UNDERGROUND WATER PIPE, METAL FRAME OF THE BUILDING OR STRUCTURE AND CONCRETE ENCASED ELECTRODE PER ARTICLE 250.52(A)(1) THROUGH (A)(3) OF NEC 2023. PROVIDE GROUNDING ELECTRODE CONDUCTOR TO FORM THE GROUNDING ELECTRODE SYSTEM REQUIRED BY ARTICLE 250.52.
ERA	CONTACT ENTERGY AT 1-800-ENTERGY FOR THE UTILITY COMPANY REQUIREMENTS RELATING TO THE NEW UNDERGROUND ELECTRICAL SERVICE. OWNER WILL PAY ANY FEES PAYABLE TO ENTERGY. FIELD CONFIRM EXACT LOCATION OF ENTERGY POWER POLE.

SHORT-CIRCUIT CURRENTS NOTES:
CALCULATION OF SHORT-CIRCUIT CURRENTS: POINT-TO-POINT METHOD PER NEC 2023 ARTICLE 110.9, 110.10 & 240.1.
WORKING CLEARANCES:
SYSTEMS OPERATING AT 600 VOLTS OR LESS TO GROUND, THE WORKING CLEARANCE SHALL NOT BE LESS THAN INDICATED IN TABLE 110.26 (A)(1) IN ADDITION TO THE DIMENSION SHOWN IN TABLE 110.26(A)(1). THE WORKING SPACE SHALL NOT BE LESS THAN 30 IN. WIDE IN FRONT OF THE ELECTRIC EQUIPMENT, THIS SPACE SHALL BE CLEAR FROM THE FLOOR TO THE HEIGHT REQUIRED BY THIS SECTION, CHECK ACCESS, ENTRANCE AND ILLUMINATION TO BE IN COMPLIANCE, ARTICLE 110.26 NEC.
AVAILABLE FAULT CURRENT LABELING:
IN LIEU OF THE MAXIMUM AVAILABLE FAULT CURRENT MARKING AS REQUIRED BY 110.24, A PERMANENT AFFIXED LABEL SHALL BE APPLIED WITH THE FAULT CURRENT AT THE TIME OF INSTALLATION AND CALCULATION. THE LABEL SHALL BE 2"x3" IN SIZE AND SHALL BE BLUE LETTERING ON A CONTRASTING BACKGROUND. THIS LABEL SHALL ALSO INCLUDED THE DATE OF THE CALCULATION (6/30/2025).
ARC-FLASH HAZARD WARNING PER 2023 NEC ARTICLE 110.16:
THE MARKING SHALL MEET THE REQUIREMENTS IN 110.21(B) AND SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT.

1 ELECTRICAL PANEL RACK

SCALE: NOT TO SCALE

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