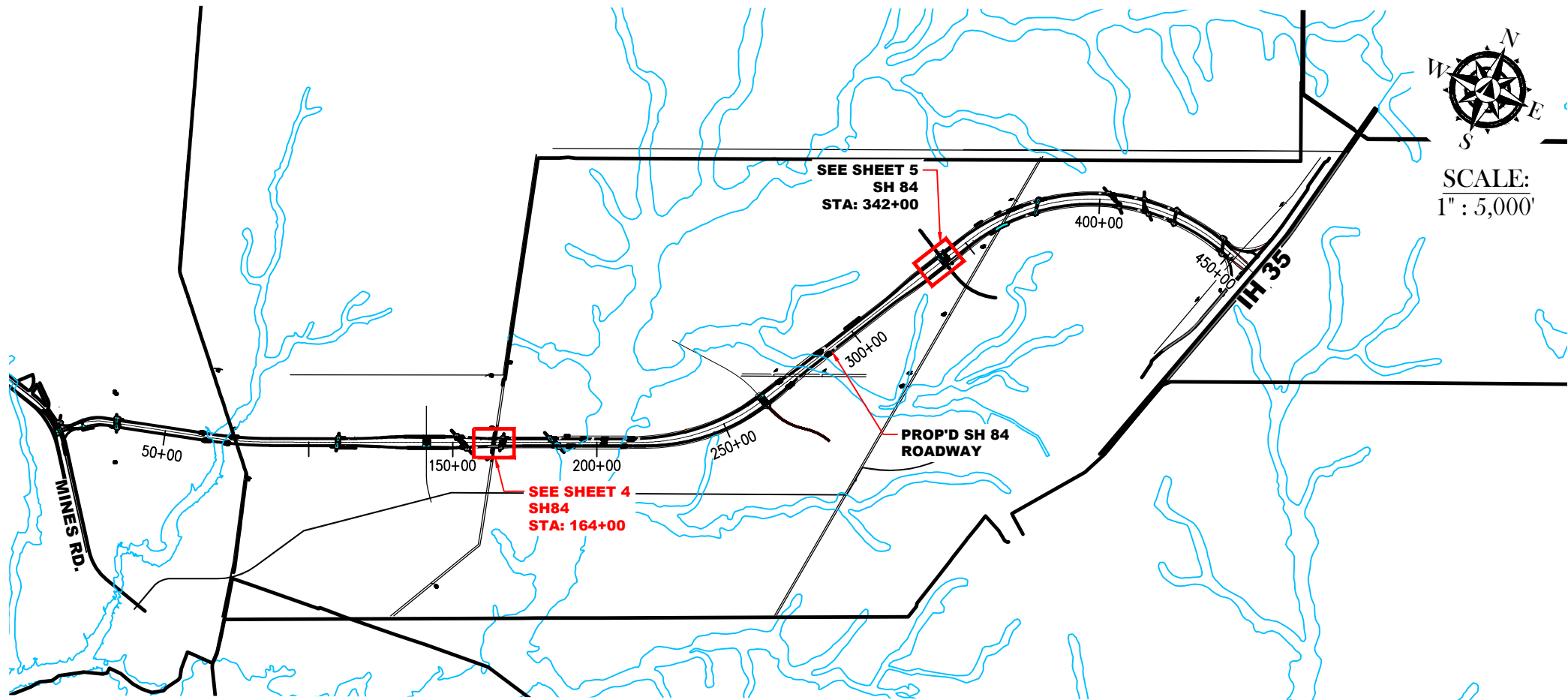


PROJECT CONTACTS
KIMMERIDGE TEXAS GAS, LLC
REGGIE HART, ENGINEERING
RHART@KTGLLC.COM ; (PH)713-302-8196
JULIO GONZALEZ, SITE SUPERVISOR
J.GONZALEZ@KTGLLC.COM ; (PH)956-453-3001



100% COMPLETE REVIEW SET
CONSTRUCTION PLANS
FOR
KIMMERIDGE TEXAS GAS
LINE RELOCATION & WATER LINE CONDUIT
INSTALLATION PROJECT
SH 84, LAREDO, TX
KIMMERIDGE (WATER): UTILITY ID: U00021298
KIMMERIDGE (GAS): UTILITY ID: U00021297

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7.)	SHORING DETAILS
8.)	SHORING DETAILS (CONT.)
9.)	SHORING DETAILS (CONT.)
10.)	SHORING DETAILS (CONT.)



ENGINEER: ARMANDO GUERRA, P.E. No. 104992
5/6/2024



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LAND DEVELOPMENT • PLANNING • WATER • WASTEWATER • TRANSPORTATION • SURVEYING
ENGINEERING REGISTRATION No. F-8019 SURVEY REGISTRATION No. 100097-00

SHEET: 1 OF 10
5/6/2024

WARNING!!
CONTACT KIMMERIDGE TEXAS GAS REPRESENTATIVE PRIOR TO ANY PROJECT EXCAVATION ACTIVITIES. USE EXTREME CAUTION WORKING WITH COMPRESSED AIR AND/OR NATURAL GAS. FAILURE TO DO SO COULD RESULT IN SERIOUS BODILY INJURY OR DEATH. CONTRACTOR RESPONSIBLE FOR MEETING ALL OF OSHA REQUIREMENTS AND COMPLYING WITH EH&S GUIDELINES.

PROJECT OBJECTIVES

- REMOVE LINE FROM SERVICE AND BLOW PIPELINE DOWN TO 0 PSIG
- PIG LINE TO EVACUATE PIPELINE OF LIQUIDS
- CUT EXISTING PIPELINE AND LOWER SO TOP OF PIPE IS A MINIMUM OF 6' BELOW TOP OF PROPOSED ROADWAY
- RECONNECT PIPELINE
- RETURN TO SERVICE
- INSTALL SEPARATE 12" HDPE CONDUIT AS REQUIRED FOR THE CROSSING OF EXISTING 3.5" POLYPLEX LINES

EH&S CONSIDERATIONS:

- KIMMERIDGE TEXAS GAS, LLC ("KTG") IS COMMITTED TO ENSURING THE HEALTH & SAFETY OF ALL WHO WORK AT OUR LOCATIONS.
- INITIATE FIELD ORIENTATION WITH ALL PERSONNEL ON LOCATION WHO DO NOT HAVE ORIENTATION CERTIFICATION.
- IT IS YOUR JOB TO BE VIGILANT OF YOUR SURROUNDINGS, KNOW YOUR LIMITATIONS, AND FOLLOW EH&S GUIDELINES.
- **IT IS ALSO YOUR RESPONSIBILITY TO STOP THE JOB ANY TIME YOU SEE AN UNSAFE SITUATION.**
- PPE, HARD HATS, STEEL TOED BOOTS, AND SAFETY GLASSES MUST BE WORN AT ALL TIMES.
- VERIFY THAT ALL NECESSARY PPE IS BEING WORN BY ALL PERSONNEL AND REMIND THEM IF THEY ARE FAILING TO DO SO.
- SMOKING SHOULD BE PERMITTED ONLY IN THE DESIGNATED AREA AT THE LOCATION ENTRANCE.
- ALL INJURIES, INCIDENTS, & SPILLS OR ANY UNSAFE CONDITIONS OR BEHAVIORS MUST BE REPORTED TO KTG SUPERVISORS IMMEDIATELY.

PRE-JOB SAFETY ANALYSIS & PREPARATION

1. CONTACT KTG SITE SUPERVISOR OR CONSTRUCTION MANAGER TO CONDUCT A PRE-JOB SAFETY ANALYSIS. IDENTIFY AND REMEDIATE ANY HAZARDS BEFORE PROCEEDING.
2. ISOLATE AND SECURE WORK AREAS.
3. **PREMIER CIVIL ENGINEERING WILL NOT SUPERVISE, DIRECT, CONTROL OR HAVE AUTHORITY OVER OR BE RESPONSIBLE FOR CONTRACTOR'S AND/OR OWNER'S MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION, OR THE SAFETY PRECAUTIONS AND PROGRAMS INCIDENT THERETO, OR ANY FAILURE OF CONTRACTOR AND/OR OWNER TO COMPLY WITH LAWS AND REGULATIONS APPLICABLE TO THE FURNISHING OR PERFORMANCE OF WORK.**

PROCEDURE:

1. **IDENTIFY** VALVE SETTINGS LOCATIONS ON SECTION OF PIPELINE TO BE LOWERED WHERE FOAM PIG CAN BE INSERTED TO PIG LINE AND REMOVE LIQUIDS FROM LINE.
2. UTILIZING GAS COMPRESSOR PULL DOWN LINE PRESSURE TO LOWEST SAFE OPERATING PRESSURE WITHOUT INTRODUCING OXYGEN IN THE LINE.
3. BLOW DOWN LINE PRESSURE TO ZERO (0) PSIG.
4. REMOVE VALVES AND INSERT FOAM PIG AT IDENTIFIED VALVE SETTING. IN THE EVENT THE LINE CAN NOT BE PIGGED, THE LINE WILL BE COLD CUT OR TAPPED BY OTHER ACCEPTABLE MEANS TO REMOVE LIQUIDS FROM THE LINE.
5. **UTILIZE AIR COMPRESSOR TO PUSH FOAM PIG AND EVACUATE LINE OF LIQUIDS IF THE LINE CAN BE PIGGER. IN THE EVENT THE LINE CAN NOT BE PIGGED, LIQUIDS WILL BE REMOVED BY OTHER INDUSTRY ACCEPTABLE MEANS (USE CATION WITH COMPRESSED AIR. FAILURE TO DO SO COULD RESULT IN DEATH OR SERIOUS BODILY INJURY)**
6. UTILIZE HYDROVAC TO EXPOSE PIPELINE
7. DIG OUT PIPELINE ACROSS PROPOSED ROADWAY PLUS 50'-100' ON EITHER SIDE OF PROPOSED ROADWAY.
8. CUT OUT PIPELINE SECTION AND INSPECT PIPE FOR INTERNAL AND EXTERNAL CORROSION.
9. IF PIPELINE INTEGRITY IS GOOD, WELD TOGETHER APPROXIMATELY 440' OF 12" PIPELINE FOR ROADBORE CASING. IN THE EVENT THE EXISTING PIPE NEEDS TO BE REPLACED IT WILL BE REPLACED WITH 6.625 OD X 0.280 WT SCH 40 X-42/52 API 5L WITH 14-16 MIL FBE.OR FBE/ARO.
10. HYDROTEST SECTION OF PIPE TO BE INSTALLED IN ROAD BORE TO A TEST PRESSURE OF 2160 PSIG. HOLD TEST PRESSURE FOR 30 MINUTES MINIMUM.
11. ASSUMING SUCCESSFUL HYDRO TEST, INSTALL INSULATORS ON ORIGINAL LINE SECTION WHICH WAS REMOVED OR NEW LINE SECTION AND INSERT INTO 10" ROADBORE CASING.
12. DIG DITCH ACROSS PROPOSED ROAD CROSSING TO DEPTH WHERE TOP OF CASING IS A MINIMUM OF 6' BELOW TOP OF PROPOSED ROAD.
13. LOWER CASING AND PIPELINE IN DITCH LINE ENSURING TOP OF CASING IS 6' BELOW TOP OF PROPOSED ROAD.
14. WELD VENT PIPES ON CASING OUTSIDE ROAD RIGHT OF WAY.
15. INSTALL NECESSARY PIPE BENDS TO REMOVED SECTION AND MAKE TIE-INS ON BOTH ENDS TO EXISTING PIPELINE.
16. COVER AND COMPACT SOIL ON TOP OF LOWERED PIPELINE.
17. PURGE LINE OF OXYGEN AND RETURN TO SERVICE

GENERAL NOTES ON SHORING

- 1.CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS, THE CONTRACTOR'S PLAN SHALL PROVIDE FOR ADEQUATE TRENCH SAFETY SYSTEM THAT COMPLY WITH, A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS, SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL DEVELOP AND IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.
2. CONTRACTOR SHALL PROVIDE ACCESS AND BARRICADING PER OSHA REQUIREMENTS.
3. SHORING MUST BE PROPERLY INSTALLED PRIOR TO WORKERS ENTERING EXCAVATION. WORKERS SHALL ENTER, EXIT AND WORK ONLY IN SHORED AREAS.
4. ALL STEEL AND ALUMINUM (INCLUDING MANUFACTURER ASSEMBLIES) SHALL BE IN GOOD CONDITION AND FREE OF ANY DAMAGE, HOLES, OR VISUAL DEFECTS.
5. ALL VOIDS BETWEEN THE EXCAVATED SOIL AND THE FACE OF THE SHORING SYSTEM MUST BE BACKFILLED WITH EXCAVATED SOIL OR OTHER APPROVED BACKFILL PRIOR TO WORKERS ENTERING EXCAVATION.
6. CONTRACTOR IS RESPONSIBLE FOR INSTALLING A DEWATERING SYSTEM, IF NECESSARY, AND VERIFYING THAT THE GROUNDWATER LEVEL BEHIND THE SHORING WALLS HAS BEEN LOWERED AT LEAST TO THE MINIMUM LEVEL AND/OR AS RECOMMENDED BY ITS INDEPENDENTLY RETAINED OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT.
7. PREMIER CIVIL ENGINEERING WILL NOT SUPERVISE, DIRECT, CONTROL OR HAVE AUTHORITY OVER OR BE RESPONSIBLE FOR CONTRACTOR AND/OR OWNER'S MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION, OR THE SAFETY PRECAUTIONS AND PROGRAMS INCIDENT THERETO, OR ANY FAILURE OF CONTRACTOR AND/OR OWNER TO COMPLY WITH LAWS AND REGULATIONS APPLICABLE TO THE FURNISHING OR PERFORMANCE OF WORK.
8. THE CONTRACTOR SHALL VERIFY THAT REQUIRED CLEARANCES ARE OBTAINED PRIOR TO COMMENCEMENT OF THE WORK.
9. IF NO SLOPING OR BENCHING IS EMPLOYED, THE TOP OF THE SHIELD SHALL BE FLUSH TO ABOVE FLUSH WITH THE EXISTING GRADE.
10. IF SOILS PERMIT, THE BOTTOM OF THE SHORING SHIELDS MAY BE SUPPORTED ABOVE THE BOTTOM OF THE TRENCH FOR THE DISTANCE SPECIFIED IN THE DETAIL SECTION VIEW.
11. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING THE EXCAVATION.
12. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE ACCURACY OF ALL DIMENSIONS FOR BOTH EXISTING AND PROPOSED WORK.
13. LADDERS SHALL BE PLACED IN TRENCH EXCAVATIONS OVER 4' DEEP. THEY SHALL EXTEND A MINIMUM OF 3' OVER THE EDGE OF THE EXCAVATION. A LADDER SHALL BE WITHIN 25' OF ANY PERSON WITHIN THE EXCAVATION.
14. CONTINUE ON NEXT PAGE.....

NOTE ON "BUY AMERICA"
-ALL STEEL USED FOR THIS WORK SHALL BE MANUFACTURED IN AMERICA. APPROPRIATE DOCUMENTATION SHALL BE REQUIRED OF MANUFACTURER.



PROJECT TITLE

KIMMERIDGE TEXAS GAS
LINE RELOCATION & WATER LINE
CONDUIT INSTALLATION
PROJECT SH 84, LAREDO, TX
(HACHAR-RUETHINGER
ROADWAY)

PREMIER

ENGINEERING SURVEYING

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ENGINEERING REGISTRATION NO. F-8019

OWNER

KIMMERIDGE TEXAS GAS
REGGIE HART
713-302-8196
CITY CENTRE FOUR.840
W.SAM HOUSTON PKWY
HOUSTON, TX 77024

SHEET TITLE

GENERAL NOTES

DRAWN BY: A.G.

CHECKED BY: A.G.

APPROVED BY:

DATE: 3 - 1 - 2024

REVISED DATE: -

SCALE: -

PROJECT #: 17932-23

FILE NAME: KIMMERIDGE CONST. PLANS

2

OF 10

2

WARNING!!
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14. THE CONTRACTOR SHALL ASSIGN A COMPETENT PERSON (CP) THAT HAS BEEN PROPERLY TRAINED AND IS QUALIFIED TO MAKE INSPECTIONS AND SUPERVISE THE INSTALLATION, MAINTENANCE, AND REMOVAL OF THE TRENCH SAFETY OR EXCAVATION SYSTEM DESCRIBED HEREIN. RESPONSIBILITIES OF THE CP INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:

- A. PROVIDE LADDERS.
- B. MANAGE GROUND WATER AND STORM RUNOFF. NO PERSON SHALL BE PERMITTED TO ENTER OR REMAIN IN AN EXCAVATION WHERE THERE IS ACCUMULATED WATER. PRIOR TO PERMITTING PERSONS TO ENTER AN EXCAVATION WHERE WATER HAS ACCUMULATED, THE CP SHALL DEWATER THE EXCAVATION.
- C. PREVENT PERSONNEL FROM ENTERING AN EXCAVATION WHERE THE ATMOSPHERE CONTAIN LESS THAN 19.5% OXYGEN OR CONTAIN HARMFUL CONTAMINATION. MONITORING SHALL BE CONDUCTED IN ACCORDANCE WITH OSHA REGULATIONS.
- D. LOCATE AND MARK EXISTING UTILITIES AND ASSURE THAT THEY ARE NOT DAMAGED DURING EXCAVATION OR CONSTRUCTION.
- E. THE DAILY INSPECTION OF THE EXCAVATION TO ENSURE A SAFE WORKING ENVIRONMENT.
- F. THE DAILY INSPECTION OF THE TRENCH SAFETY SYSTEM AND EQUIPMENT TO ENSURE THAT IT IS NOT DEFECTIVE, IS INSTALLED PROPERLY, AND IS IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED HEREIN.
- G. ENSURING THAT THE INDIVIDUALS WORKING IN THE EXCAVATION HAVE BEEN PROPERLY TRAINED AND INSTRUCED IN THE USE OF THE EQUIPMENT.
- H. SOIL CLASSIFICATION, AND RE-CLASSIFICATION IF REQUIRED AS A RESULT OF RAIN, WATER FROM OTHER SOURCES OR UNEXPECTED SOIL DISTURBANCE.
- I. MAINTAIN A COPY OF APPROPRIATE OSHA REGULATIONS ONSITE AND THE IMPLEMENTATION OF OSHA TRENCHING SAFETY REGULATIONS AT THE WORK SITE.

15. UNLESS OTHERWISE NOTED, SLOPING AND BENCHING SHALL BE OSHA COMPLIANT.

16. SUITABLE SHEETING MATERIALS ARE REQUIRED IN TRENCHES CUT IN NON-COHESIVE SOILS THAT ARE 5' DEEP OR GREATER. THESE MATERIALS ARE NOT A PRIMARY LOAD CARRYING STRUCTURAL MEMBER AND IS ONLY USED TO CONTAIN LOCAL RAVELING AND SLOUGHING OF THE SHORED SOIL.

17. THE CONTRACTOR IS RESPONSIBLE FOR SECURING HYDRAULIC VERTICAL SHORES IN A MANNER THAT PREVENTS ANY LATERAL OR VERTICAL DISPLACEMENT.

18. THE CONTRACTOR IS RESPONSIBLE FOR SHORING OR SLOPING AT OPEN ENDS OF SHORING SYSTEM IN ACCORDANCE WITH OSHA GUIDELINES.

GENERAL NOTES ON EXISTING UTILITIES

ALL UTILITIES SHOWN ON THESE DRAWINGS ARE FOR INFORMATION ONLY AND WERE OBTAINED FROM AVAILABLE RECORDS. HORIZONTAL LOCATION AND DEPTHS OF EXISTING UTILITY LINES ARE UNKNOWN.

CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND LOCATING ALL EXISTING UTILITY LINES AND COORDINATING ALL RELOCATIONS AND REMOVALS WITH EACH UTILITY COMPANY.

CONTRACTOR WILL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES CAUSED BY FAILURE TO LOCATE AND PRESERVE UNDERGROUND UTILITIES.

SPRAY PAINTED UTILITY LINES MAY HAVE AN 24" ACCURACY ON EACH SIDE OF SPRAY PAINTED LINE. HAND DIG IS REQUIRED WITHIN THIS 4' AREA. NO SEPARATE PAY ITEM.

CONTRACTOR TO COORDINATE UTILITY CONFLICTS AND POSSIBLE RELOCATIONS WITH THE APPROPRIATE UTILITY COMPANIES.COORDINATION WILL NOT BE PAID FOR SEPARATELY.

CONTRACTOR WILL COORDINATE WITH UTILITY COMPANIES FOR ANY UTILITY CONFLICTS AND RELOCATIONS. THIS COORDINATION WILL BE SUBSIDIARY TO VARIOUS BID ITEMS. CONTRACTOR WILL NOT BE FINANCIALLY COMPENSATED OR RECEIVE ADDITIONAL TIME FOR ANY TIME DELAYS DUE TO UTILITY RELOCATIONS.

CONTRACTOR SHALL GIVE 48 HRS NOTICE TO CITY STAFF PRIOR TO ANY TESTING REQUESTS.

UNDERGROUND UTILITY LINES SHOWN ON THE PLANS CONSTITUTE AN ATTEMPT BY THE ENGINEER TO LOCATE THESE UTILITIES FOR THE CONVENIENCE OF THE CONTRACTOR.

THE CONTRACTOR SHALL FIELD LOCATE ALL UNDERGROUND UTILITY LINES AND MAKE PROVISIONS FOR THEIR PROTECTION.

ANY DAMAGE TO CITY OR PRIVATE UTILITY LINES SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER, THE OWNER, THE CITY AND/OR APPROPRIATE UTILITY COMPANY. REPAIRS TO THESE UTILITY LINES WILL BE AT THE CONTRACTORS EXPENSE.

THE CONTRACTOR SHALL REMOVE, REPLACE AND RESTORE TO ORIGINAL CONDITION, ELEVATION AND LOCATION, ALL EXISTING MANHOLES, LINES, VALVES, AND OTHER EXISTING IMPROVEMENTS, INCLUDING SPRINKLERS, DRIVEWAYS, PAVEMENT, AND CURBS ENCOUNTERED DURING CONSTRUCTION ACTIVITIES.

ALL UNDERGROUND ELECTRICAL, TELEPHONE, AND CABLE LINES MAY NOT BE SHOWN ON THESE PLANS. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AND UTILITY COMPANIES TO DETERMINE LOCATIONS, DEPTHS, AND LINE SIZES. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY REGULATIONS FOR WORK.

DRIVEWAYS NOT ADDRESSED TO BE REPLACED AND CONSTRUCTION ENTRANCES IDENTIFIED SHALL BE PRESERVED AS TO MINIMIZE IMPACT TO THE SURROUNDING TRAFFIC FLOW. ADEQUATE BARRICADES, WARNINGS AND LIGHTING WILL BE EMPLOYED FOR SAFETY AND TRAFFIC FLOW.

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE TEXAS MANUAL OF UNIFORM CONTROL DEVICES FOR STREETS AND HIGHWAYS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL CONSTRUCTION ACTIVITIES UNDER THE REQUIREMENTS OF THE CITY OF LAREDO. THIS INCLUDES ALL NECESSARY PERMITS FOR CONSTRUCTION BOTH INSIDE AND OUTSIDE OF THE CONSTRUCTION PROPERTY BOUNDARIES.

NO CONSTRUCTION ACTIVITIES SHALL COMMENCE UNTIL PROPER CLEARANCE IS PROVIDED BY THE APPROPRIATE CITY OF LAREDO AND OWNER AUTHORITIES.

RIGHT-OF-WAY AND PROPERTY LINES ARE FOR ILLUSTRATION PURPOSES ONLY, AND DO NOT REPRESENT AN ATTEMPT BY THE ENGINEER TO CONFIRM THE ACTUAL PROPERTY BOUNDARIES. UNDERGROUND LINES SHALL BE FIELD LOCATED BY THE CONTRACTOR. AN ATTEMPT BY THE ENGINEER TO SHOW THESE LINES WAS EXERCISED ON THE PLANS BUT IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE FINAL LOCATIONS OF THESE LINES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ANY ADJUSTMENTS OR FIELD LOCATES WITH THE APPROPRIATE UTILITY COMPANIES.

EROSION CONTROL PLAN NOTES:

1. PROVIDE TEMPORARY DIVERSION DITCHES AS REQUIRED TO ENSURE THAT STORM WATER FLOWS OUTLET TO THE STORM DRAIN SYSTEM. AT THE DOWNSTREAM END OF TEMPORARY DITCHES PROVIDE INLET PROTECTION FOR CATCH BASINS AND PIPES IN ACCORDANCE WITH TEMPORARY EROSION AND SEDIMENTATION CONTROL STANDARD DETAILS.
2. BACKFILL ALL NON-RUNWAY RELATED HOLES, PITS, AND DEPRESSIONS CREATED BY DEMOLITION USING ON-SITE MATERIALS. GRADE TO DRAIN.
3. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES. REFER TO SPECIFIC MAINTENANCE NOTES FOR EACH MEASURE AS IDENTIFIED IN DETAILS.
4. CONTRACTOR SHALL MAINTAIN TEMPORARY DRAINAGE AND EROSION CONTROL FOR THE PERIOD OF TIME AFTER WORK IS COMPLETED AS DESCRIBED IN THE SPECIFICATIONS.

EXCESS FILL NOTES:

1. ANY EXCESS FILL RESULTING FROM TRENCHING/BORING ACTIVITIES SHALL BE REMOVED FROM SITE AND DISPOSED AS PER CITY'S, TXDOT, AND TCEQ'S RULES AND GUIDELINES.

NOTE ON "BUY AMERICA"
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PROJECT TITLE

KIMMERIDGE TEXAS GAS
LINE RELOCATION & WATER LINE
CONDUIT INSTALLATION
PROJECT SH 84, LAREDO, TX
(HACHAR-RUETHINGER
ROADWAY)

OWNER

KIMMERIDGE TEXAS GAS
REGGIE HART
713-302-8196
CITY CENTRE FOUR.840
W.SAM HOUSTON PKWY
HOUSTON, TX 77024

SHEET TITLE

GENERAL NOTES
CONTINUED

DRAWN BY:

A.G.

CHECKED BY:

A.G.

APPROVED BY:

DATE:

3 - 1 - 2024

REVISED DATE:

-

SCALE:

-

PROJECT #:

17932-23

FILE NAME:

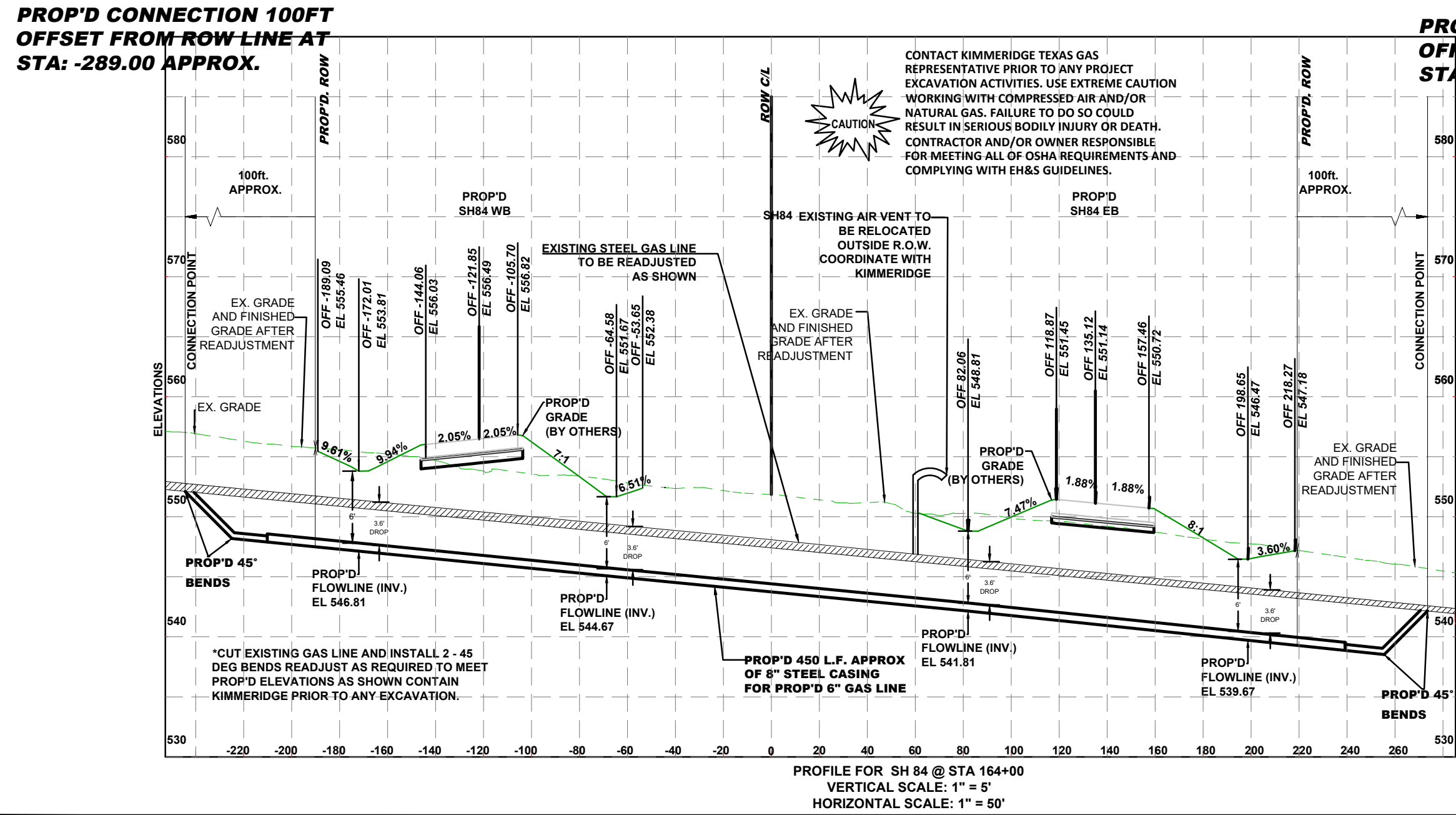
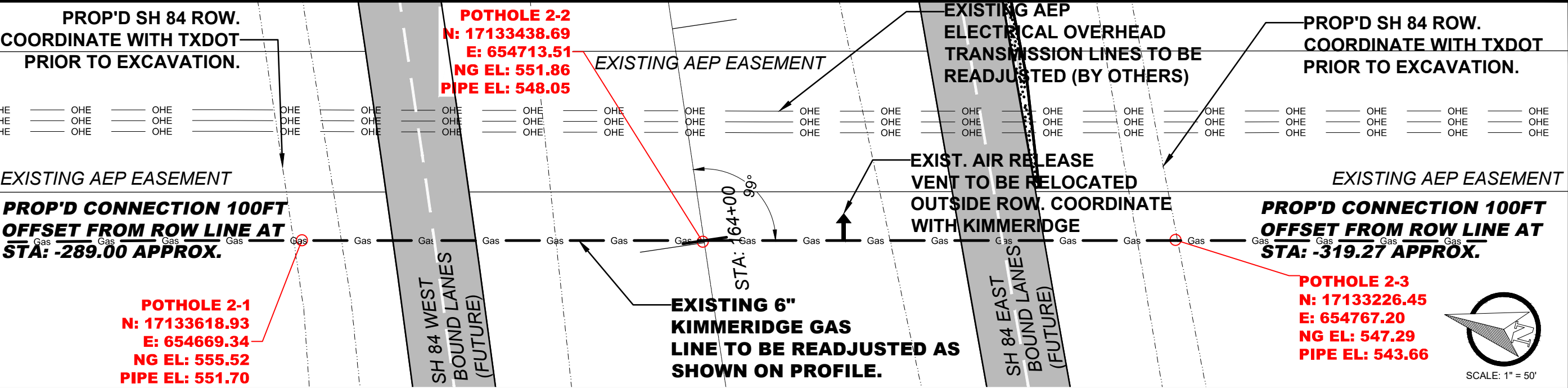
KIMMERIDGE CONST. PLANS

3

OF

10

3



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PROJECT TITLE
KIMMERIDGE TEXAS GAS
LINE RELOCATION & WATER LINE
CONDUIT INSTALLATION
PROJECT SH 84, LAREDO, TX
(HACHAR-RUETHINGER
ROADWAY)

OWNER
KIMMERIDGE TEXAS GAS
REGGIE HART
713-302-8196
CITY CENTRE FOUR.840
W.SAM HOUSTON PKWY
HOUSTON, TX 77024

SHEET TITLE
GAS LINE
READJUSTMENT
PLAN & PROFILE

DRAWN BY: A.G.
CHECKED BY: A.G.
APPROVED BY:
DATE: 3-1-2024
REVISED DATE:
SCALE:
PROJECT #: 17932-23
FILE NAME: KIMMERIDGE CONST. PLANS

4 OF **10** **4**

**BEGIN
CONSTRUCTION 5FT
OFFSET FROM ROW
LINE AT
STA: -264.00
APPROX.**

**PROP'D SH 84 ROW.
COORDINATE WITH TXDOT
PRIOR TO EXCAVATION.**

SH 84 WEST
BOUND LANES
(FUTURE)

**NOTE: THIS 12" HDPE
CASING SHALL BE USED
FOR THE CROSSING OF THE
EXISTING 3.5" OVERLAND
WATER LINES LOCATED AT
STATIONS 319+75 &
343+75**

STA: 343+00

STA: 342+00

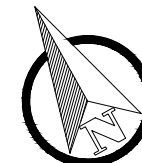
**PROP'D 540 L.F. APPROX. OF
12" HDPE PIPE FOR
PROPOSED WATER LINE
CROSSING**

90°

SH 84 EAST
BOUND LANES
(FUTURE)

**PROP'D SH 84 ROW.
COORDINATE WITH TXDOT
PRIOR TO EXCAVATION.**

**BEGIN
CONSTRUCTION 5FT
OFFSET FROM ROW
LINE AT
STA: 284.00
APPROX.**



SCALE: 1" = 50'

PROJECT TITLE

KIMMERIDGE TEXAS GAS
LINE RELOCATION & WATER LINE
CONDUIT INSTALLATION
PROJECT SH 84, LAREDO, TX
(HACHAR-RUETHINGER
ROADWAY)



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ENGINEERING REGISTRATION NO. F-8019

OWNER

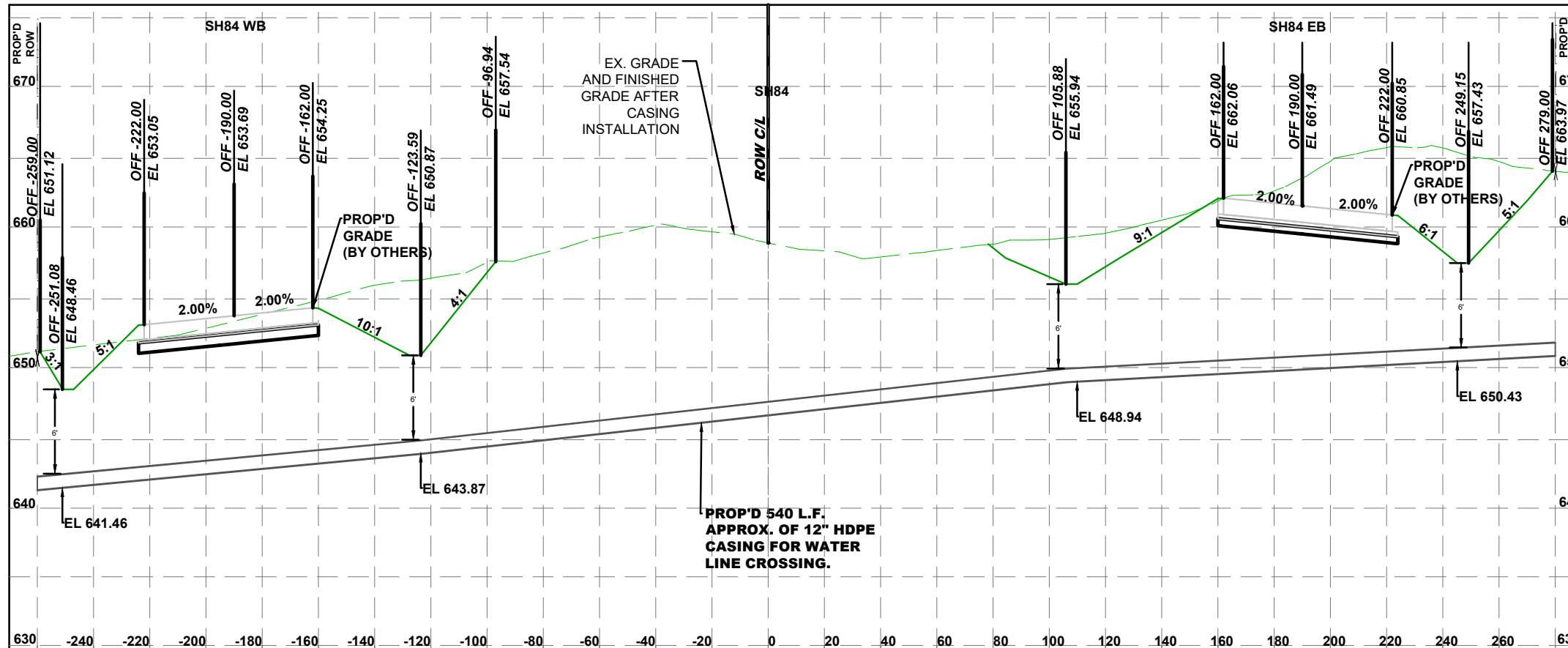
KIMMERIDGE TEXAS GAS
REGGIE HART
713-302-8196
CITY CENTRE FOUR, 840
W. SAM HOUSTON PKWY
HOUSTON, TX 77024

SHEET TITLE

**WATER LINE
CASING
PLAN & PROFILE**

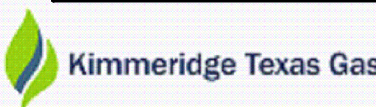
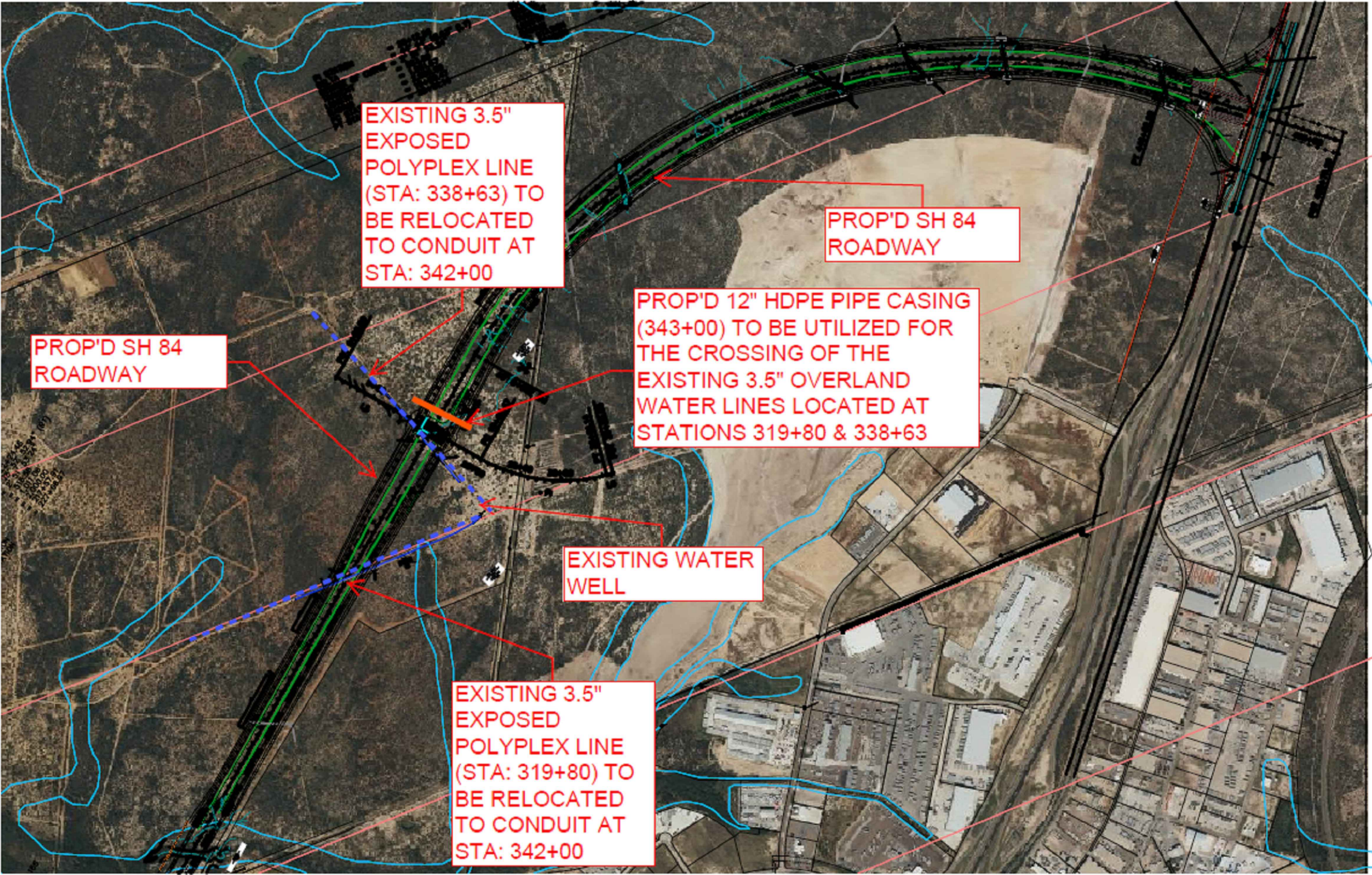
DRAWN BY:	A.G.
CHECKED BY:	A.G.
APPROVED BY:	
DATE:	3-1-2024
REVISED DATE:	
SCALE:	
PROJECT #:	17932-23
FILE NAME:	KIMMERIDGE CONST. PLANS

5 OF 10 5



PROFILE FOR SH 84 @ STA 342+00
VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 50'





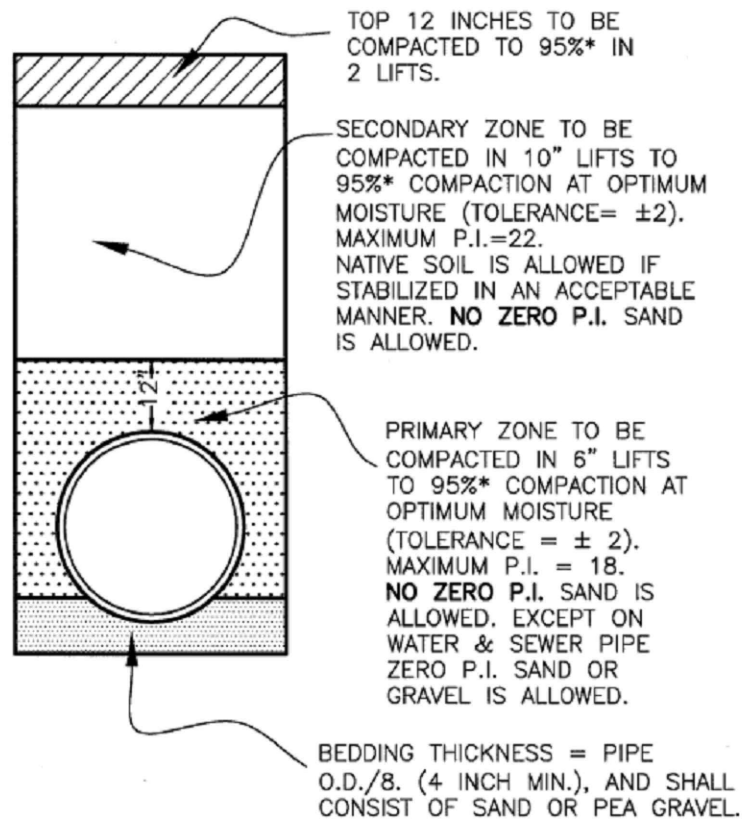
KIMMERIDGE TEXAS GAS
LINE RELOCATION & WATER LINE
CONDUIT INSTALLATION
PROJECT SH 84, LAREDO, TX
(HACHAR-RUETHINGER
ROADWAY)

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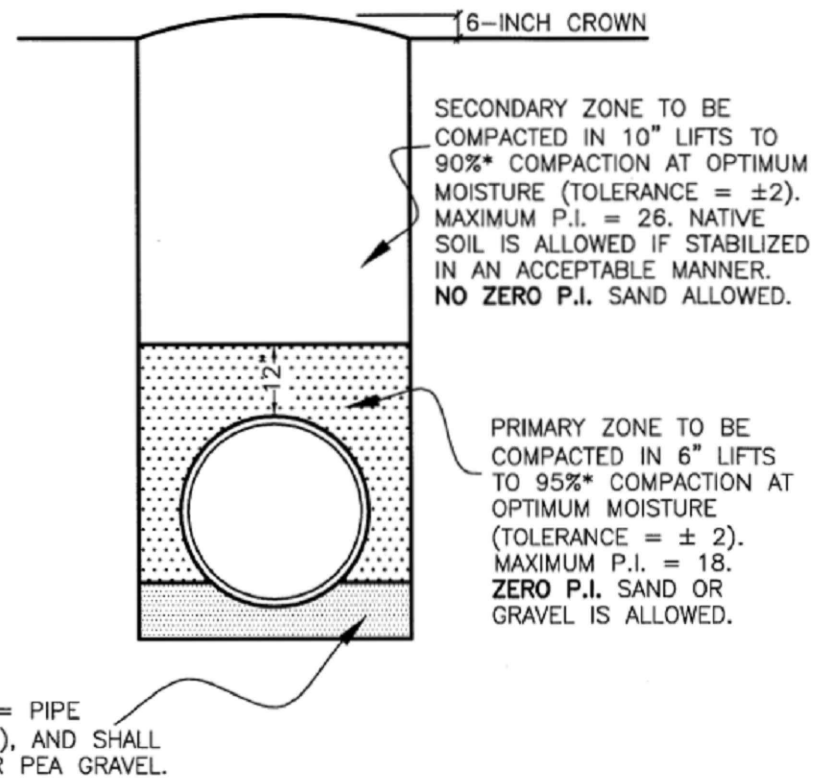
EXISTING
WATER LINES
TO BE RELOCATED

SHEET TITLE	
DRAWN BY:	A.G.
CHECKED BY:	A.G.
APPROVED BY:	
DATE:	3-1-2024
REVISED DATE:	-
SCALE:	-
PROJECT #:	17932-23
FILE NAME:	KIMMERIDGE CONST. PLANS
5A OF 10	5A



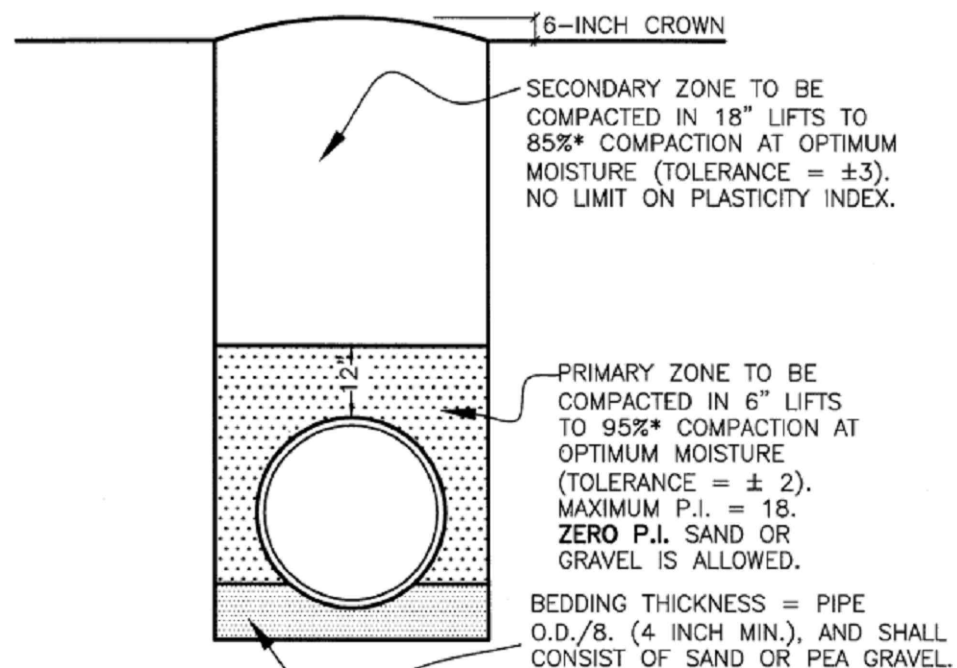
UTILITY TRENCH CONDITION "A"
WITHIN PAVED AREAS

N.T.S.



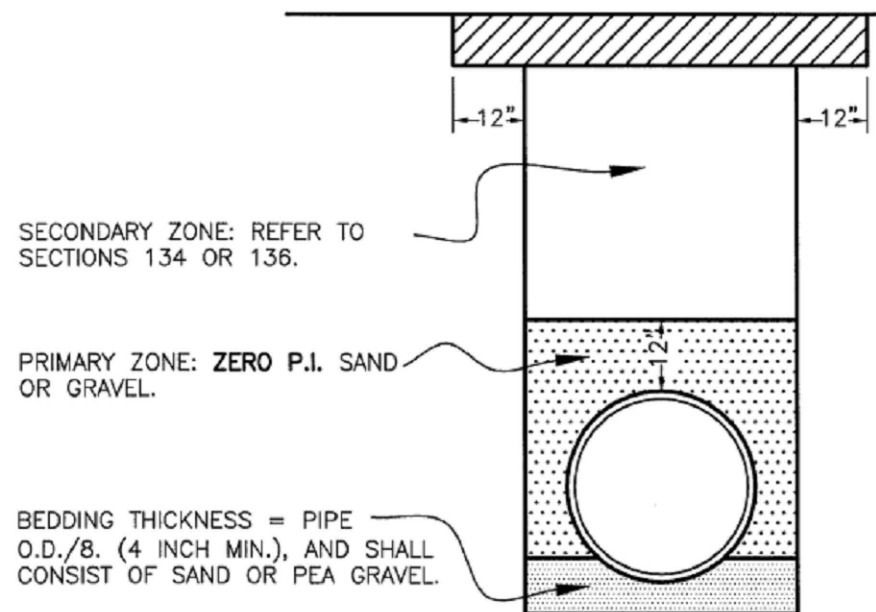
UTILITY TRENCH CONDITION "B" WITHIN THE
R.O.W., OUTSIDE OF PAVED AREAS

N.T.S.



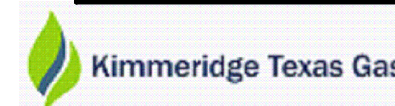
UTILITY TRENCH CONDITION "C"
BEYOND THE R.O.W.

N.T.S.



UTILITY TRENCH CONDITION "D" CEMENT
STABILIZED SAND/CALICHE OR
FLOWABLE BACKFILL

N.T.S.



PROJECT TITLE
KIMMERIDGE TEXAS GAS
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CONDUIT INSTALLATION
PROJECT SH 84, LAREDO, TX
(HACHAR-RUETHINGER
ROADWAY)

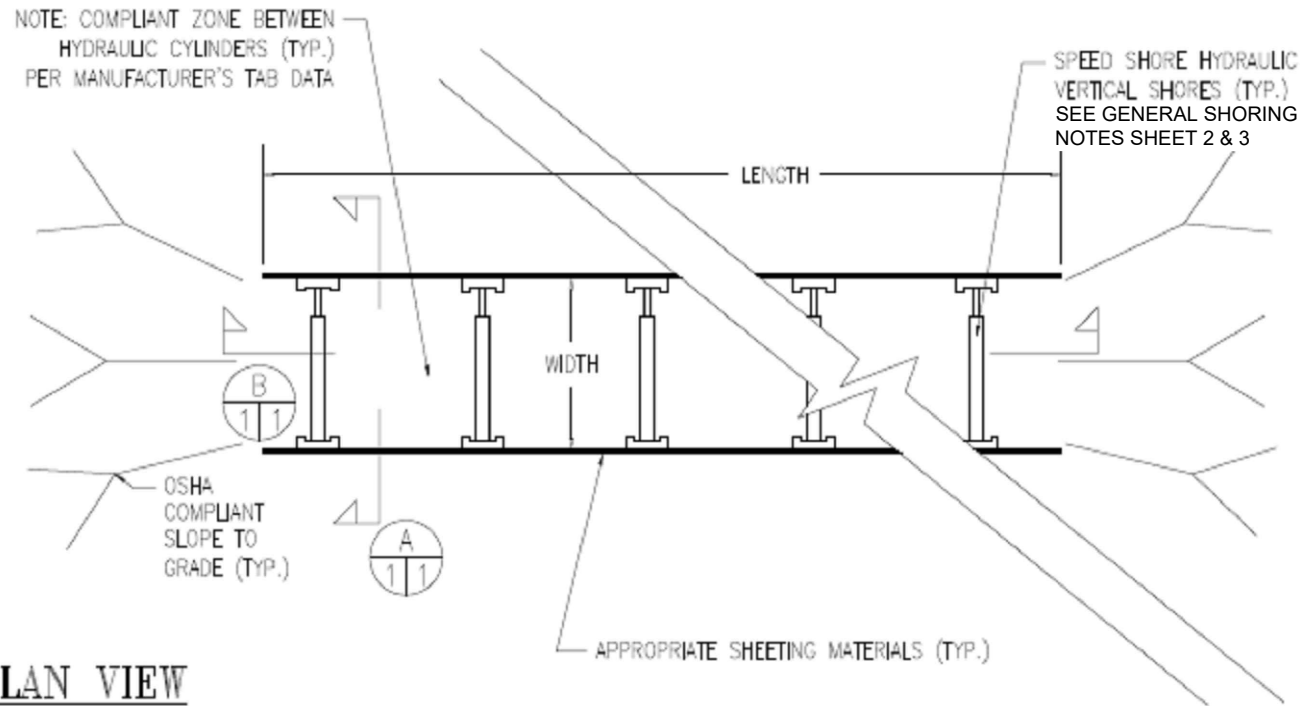
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KIMMERIDGE TEXAS GAS
REGGIE HART
713-302-8196
CITY CENTRE FOUR, 840
W. SAM HOUSTON PKWY
HOUSTON, TX 77024

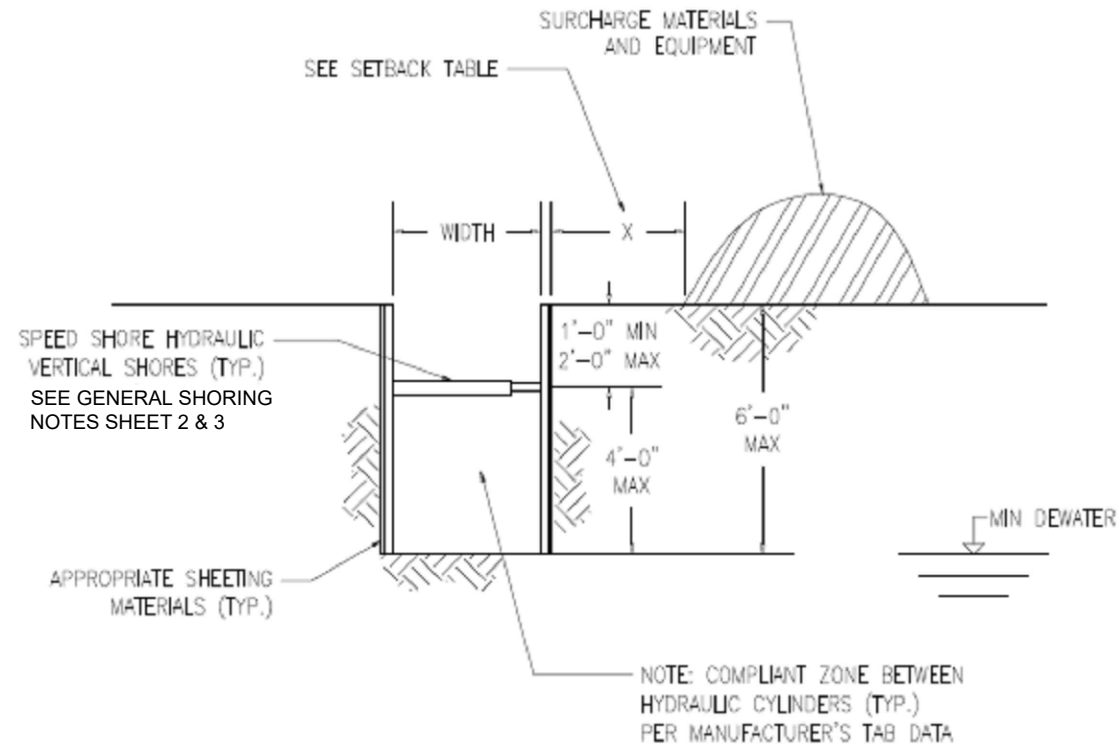
SHEET TITLE
**TRENCH CONDITIONS
DETAILS**

DRAWN BY: A.G.
CHECKED BY: A.G.
APPROVED BY:
DATE: 3-1-2024
REVISED DATE:
SCALE:
PROJECT #: 17932-23
FILE NAME: KIMMERIDGE CONST. PLANS

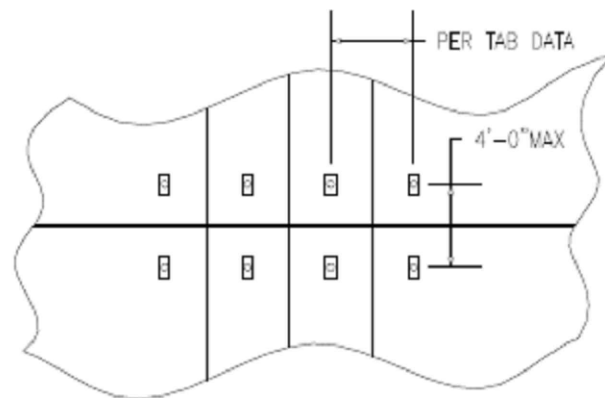
6 OF 10 6



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



SECTION A VIEW
SCALE: 1/4" = 1'-0"



SECTION B VIEW
SCALE: 1/8" = 1'-0"

SETBACK TABLE

CRANE TO 30 TON MAX	X= 8'
CAT 325 EXCAVATOR	X= 6'
CAT 365 EXCAVATOR	X= 10'
CAT 375 EXCAVATOR	X= 12'
3 CY LOADER	X= 4'
5 CY LOADER	X= 6'
DUMP TRUCK	X= 5'
SPOIL PILE (6' TALL)	X= 4'
CONCRETE TRUCK	X= 10'
RAILROAD TRACK	X= 100'
EXISTING STRUCTURES	X= 20'
HS20-44 TRAFFIC	X= 20'

NOTE:

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CONDUIT INSTALLATION
PROJECT SH 84, LAREDO, TX
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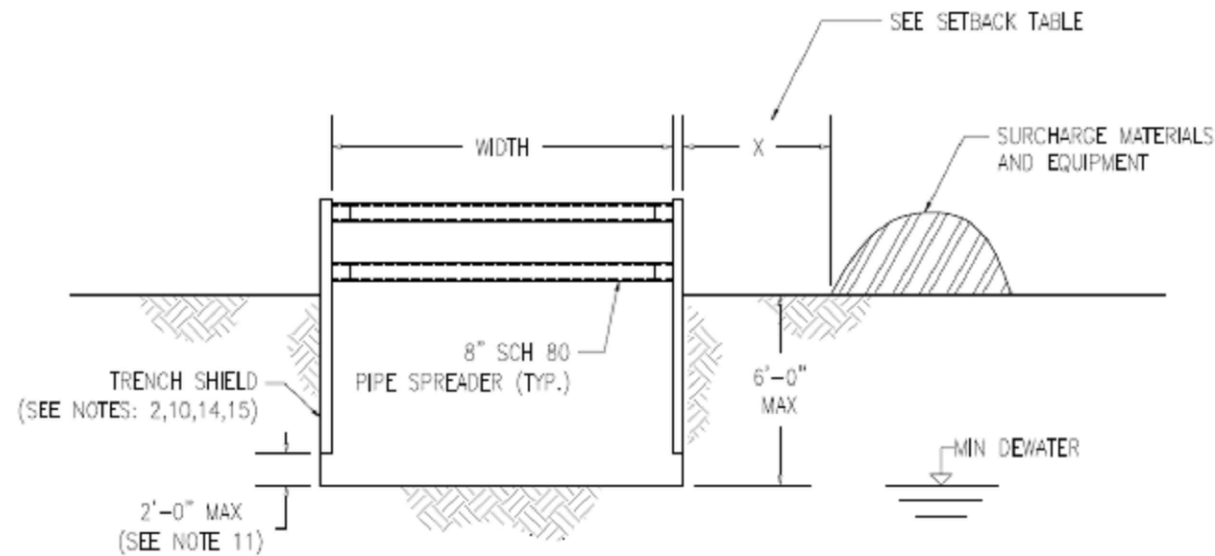


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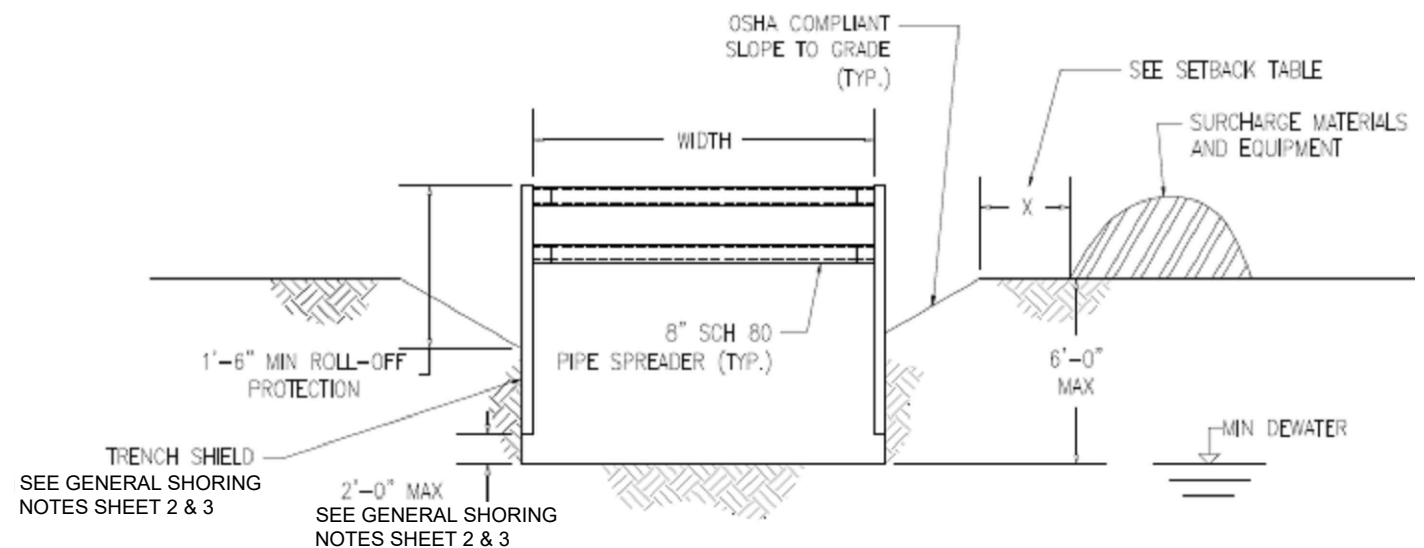
SHORING DETAILS

SHEET TITLE
DRAWN BY: A.G.
CHECKED BY: A.G.
APPROVED BY:
DATE: 3-1-2024
REVISED DATE:
SCALE:
PROJECT #: 17932-23
FILE NAME: KIMMERIDGE CONST. PLANS



SECTION A VIEW-NO SLOPING

SCALE: 3/16" = 1'-0"



SECTION A VIEW-WITH SLOPING

SCALE: 3/16" = 1'-0"

NOTE:

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SETBACK TABLE

CRANE TO 30 TON MAX	X= 8'
CAT 325 EXCAVATOR	X= 6'
CAT 365 EXCAVATOR	X= 10'
CAT 375 EXCAVATOR	X= 12'
3 CY LOADER	X= 4'
5 CY LOADER	X= 6'
DUMP TRUCK	X= 5'
SPOIL PILE (6' TALL)	X= 4'
CONCRETE TRUCK	X= 10'
RAILROAD TRACK	X= 100'
EXISTING STRUCTURES	X= 20'
HS20-44 TRAFFIC	X= 20'



PROJECT TITLE
KIMMERIDGE TEXAS GAS
LINE RELOCATION & WATER LINE
CONDUIT INSTALLATION
PROJECT SH 84, LAREDO, TX
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SHORING
DETAILS
CONTINUED

SHEET TITLE
DRAWN BY: A.G.
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SCALE:
PROJECT #: 17932-23
FILE NAME: KIMMERIDGE CONST. PLANS



8 OF 10 8

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

NOTE:

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SETBACK TABLE	
CRANE TO 30 TON MAX	X= 8'
CAT 325 EXCAVATOR	X= 6'
CAT 365 EXCAVATOR	X= 10'
CAT 375 EXCAVATOR	X= 12'
3 CY LOADER	X= 4'
5 CY LOADER	X= 6'
DUMP TRUCK	X= 5'
SPOIL PILE (6' TALL)	X= 4'
CONCRETE TRUCK	X= 10'
RAILROAD TRACK C	X= 100'
EXISTING STRUCTURES	X= 20'
HS20-44 TRAFFIC	X= 20'



PROJECT TITLE
KIMMERIDGE TEXAS GAS
LINE RELOCATION & WATER LINE
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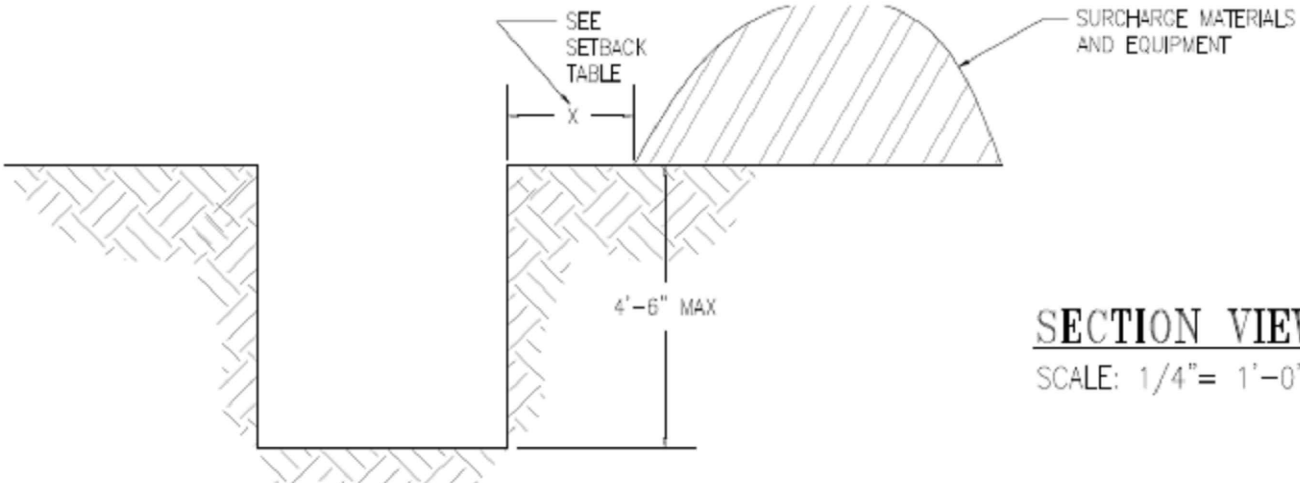
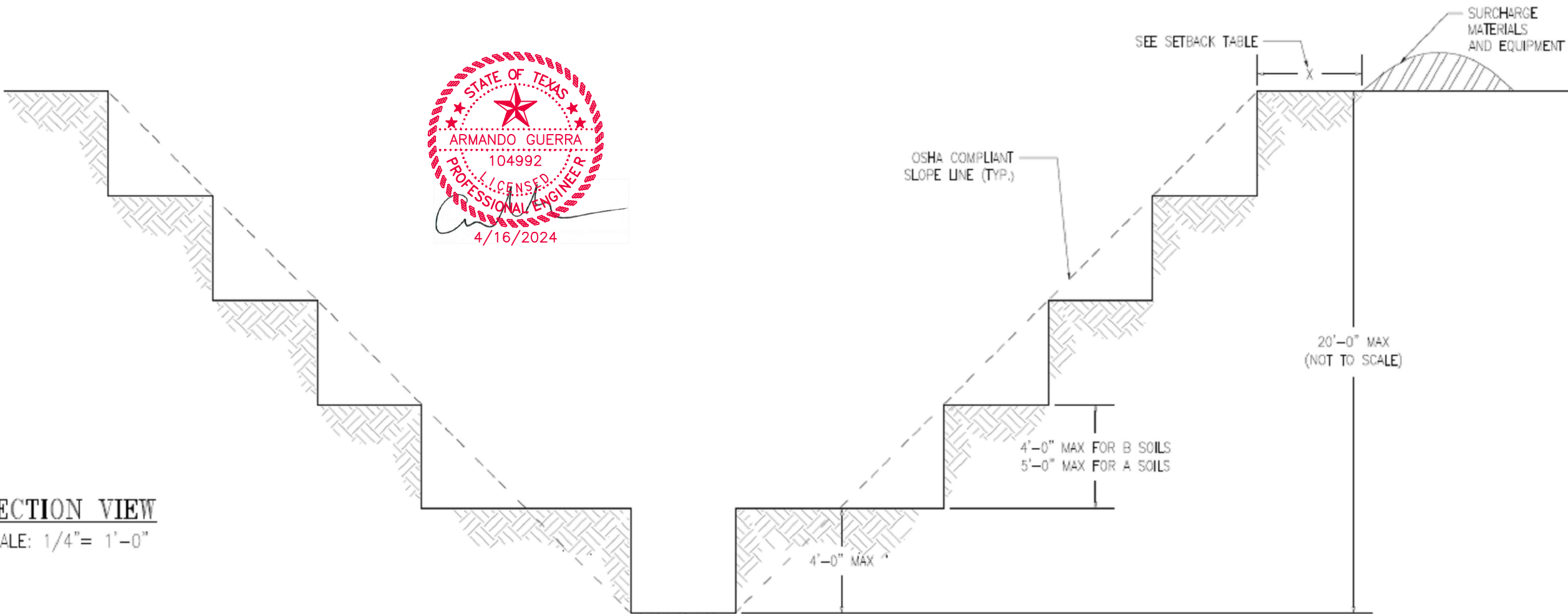
SHEET TITLE
SHORING
DETAILS
CONTINUED

DRAWN BY:	A.G.
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APPROVED BY:	
DATE:	3-1-2024
REVISED DATE:	-
SCALE:	-
PROJECT #:	17932-23
FILE NAME:	KIMMERIDGE CONST. PLANS

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



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

SETBACK TABLE	
CRANE TO 30 TON MAX	X= 8'
CAT 325 EXCAVATOR	X= 6'
CAT 365 EXCAVATOR	X= 10'
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PROJECT #:	17932-23
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10 OF 1010

PROJECT TITLE

KIMMERIDGE TEXAS GAS
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SHEET TITLE

SHORING
DETAILS
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10 OF 1010