

*Before you start any excavation project **Call 811 (State One Call Center)**. There is also a project survey/design ticket available through the One Call Center which allows for pre-planning and underground utility first contacts. Federal and State laws require 48-72 hours' notice given to the utility companies prior to beginning excavation. This may be accomplished by contacting a "One Call" system (see bottom of back page for listings). If you are unable to contact the appropriate one call system, please call the nearest Explorer Pipeline area office a minimum of 48 hours prior to commencing work.

The following are minimum requirements for most proposed encroachments to avoid conflict with Explorer Pipeline's easement rights. It is not Explorer's intent to convey that these are the only types of activities permitted; additional specifications may be required depending upon the proposed encroachments.

GENERAL REQUIREMENTS FOR SURFACE ALTERATIONS

- A) Explorer's easement restricts the placement of a permanent structure, building, parking lot, pond, etc., within the right-of-way without a project review and the expressed written consent of Explorer Pipeline.
- B) An authorized Explorer representative must be on site during any type of excavation or surface modification within the right-of-way. This includes activities such as driving fence posts.
- C) Any change in the amount of existing material (soil) on and over the right-of-way, that makes the total amount of cover less than four (4') feet or adds more than one (1') foot of cover, must be approved in advance by Explorer's ROW Integrity Administrator.
- D) Encroaching party will be responsible for any future erosion repairs due to its activities, or lack of proper erosion control measures, which result in Explorer having to relocate its pipeline or take corrective measures to prevent its pipeline from becoming exposed.

GENERAL REQUIREMENTS FOR BURIED LINE CROSSINGS

- A) All buried lines crossing Explorer right-of-way shall be installed adhering to all applicable codes and requirements governing such installations.
- B) All buried lines crossing Explorer's right-of-way must cross on an angle that when measured between the proposed buried line and Explorer right-of-way is between 90 and 45 degrees. This angle must be maintained across the entire width of the right-of-way. **Points of Intersection (PIs) are not allowed within the ROW boundaries.**
- C) All buried lines crossing Explorer's pipeline shall maintain a minimum separation of 24 inches between the two lines, with the same grade of depth carried across the entire right-of-way.
- D) All buried lines should cross under the pipeline. However, should the encroaching party be unable to comply with the 24" clearance requirements due to obstructions or unfavorable soil conditions, Explorer's representative may approve special design and construction.
- E) Explorer's pipeline shall be exposed at encroaching party's expense during all bored crossings where clearance between Explorer's line and proposed bore path is ten feet (10') or less. **In addition, for bored crossings, the minimum separation between Explorer and crossing utility shall be 48 inches. In cases where the soil condition (swampy) does not safely allow for Explorer Pipeline to be exposed, sheet piling (min. 5 feet from pipeline to a depth 48" below the bottom of the pipe) shall be used to protect the pipeline.** Upon completing crossing, compact all disturbed backfill to a density equal to or greater than surrounding soil.
- F) No foreign appurtenances (meters, poles, drop boxes, collection basins, etc.) shall be located within Explorer's right-of-way.
- G) Encroaching party shall furnish and install a six inch wide burial warning tape, 12 to 18 inches above all lines and extend across the entire width of Explorer's right-of-way.
- H) Where physically possible, signs shall be installed at each edge of right-of-way by encroaching party to locate and identify owner, type of service, and emergency phone numbers.

- I) Encroaching party will be responsible for any future erosion repairs due to its activities, or lack of proper erosion control measures, which result in Explorer having to relocate its pipeline or take corrective measures to prevent its pipeline from becoming exposed.

PARALLEL ENCROACHMENTS AND OVERLAPPING EASEMENTS WITHIN EXPLORER PIPELINE'S RIGHT-OF-WAY

- A) A third party intending to encroach upon Explorer's easement must first obtain Explorer's permission and/or provide documentation stating there is no exclusivity to said easement. Explorer prefers not to have parallel pipeline construction within its easement. A Joint User Agreement will be put in place to reserve any "first in time" rights available to Explorer should there be a need for overlapping easements. The requirements for parallel encroachments and overlapping easements within Explorer's right-of-way will be negotiated with Explorer's Right-of-Way Integrity Administrator and Senior Attorney.

1. EXCAVATION

- A) Plans for any excavation on the right-of-way must be approved before work commences. Excavating closer than 24 inches to the pipeline or cathodic protection (C.P.) wires shall be done by hand until the pipeline and C.P. wires are exposed. This shall be done only with the approval and in the presence of an authorized Explorer representative. After Explorer's pipeline and C.P. wires have been exposed, the excavation equipment should be positioned so the operation of the equipment will not reach within 24 inches of the pipeline or C.P. wires.
- B) If a backhoe is used, the bucket should be curled under each time it is returned to the ditch and should have a plate covering all teeth to reduce the chance of gouges or punctures to the pipe.
- C) A One Call to **811 (State One Call Center)** is required if any deep plowing or ripping of the soil within the right-of-way, including agricultural land, at any depth that may negatively impact the safe operations of the pipeline. If you should strike the pipeline at any time you must call Explorer's emergency number at 888-876-0036; it is the law. All tiling projects require an 811 call.

2. COMMUNICATION LINES (FIBER OPTIC, TELEPHONE, TV, OTHER DATA LINES)

- A) Shall meet all provisions GENERAL REQUIREMENTS – BURIED LINE CROSSINGS.
- B) For clearances less than 48" below Explorer and for all crossings over Explorer, fiber optics shall be encased in rigid steel conduit the full width of right-of-way. Directionally bored installations will be evaluated on a case by case basis.

3. POWER LINES (BURIED)

- A) Shall meet all provisions GENERAL REQUIREMENTS – BURIED LINE CROSSINGS.
- B) Shall have a minimum clearance of 24 inches when crossing over or under Explorer's pipeline.
- C) Shall be encased in steel conduit. The steel conduit shall be the full width of the right-of-way and centered in a 6" minimum layer of red concrete.
- D) Concrete may be omitted when crossing under Explorer's pipeline when 48 inches or more of clearance is obtained between the bottom of Explorer's pipeline and the top of the steel conduit; Or if 72 inches of clearance is obtained for bored installations utilizing non-steel conduit.
- E) Signs shall be placed at each edge of the right-of-way to mark the underground cable angle and path of crossing. The signs are to be furnished by the Power Company of the encroaching party.

4. POWER LINES (ABOVEGROUND)

- A) Shall maintain a minimum of 25 feet of clearance above grade and completely across the right-of-way.
- B) Shall have no poles or appurtenances located on the right-of-way.

5. SEWER AND WATER LINES

- A) Shall meet all provisions GENERAL REQUIREMENTS-BURIED

LINE CROSSINGS.

- B) Septic tanks / drain fields are not permitted within the right-of-way.

6. METALLIC PIPE CROSSINGS

- A) Explorer Pipeline personnel will install leads on Explorer's pipeline when deemed necessary. Explorer Pipeline may request test leads to be installed at third party pipeline crossings.

7. STREETS, ROADS, DRIVEWAYS AND RAILROADS

- A) Unpaved residential driveways shall be allowed provided there will be a minimum cover of 48" between the lowest point of the road sub-grade and top of Explorer's pipeline.
- B) An opportunity for Explorer to make a pipe inspection must be given at least 48 hours prior to the start of any construction.
- C) Provisions A, C & D of the GENERAL REQUIREMENTS FOR SURFACE ALTERATIONS pertain to driveway crossings.
- D) Paved driveways, streets, highways and railroad construction may require a special encroachment agreement. Plans for such crossings should be submitted a minimum of 180 calendar days prior to work commencement to allow time for project impact review by Explorer's ROW Integrity Administrator.

8. FENCES – BARRIERS - WALLS

- A) Privacy fences are not permitted, unless otherwise authorized by the easement or as approved by Explorer's ROW Integrity Administrator.
- B) Fence posts shall not be installed within 3 feet of the center of the pipeline and the first post either side of the pipe shall be set in hand dug holes. To perform normal maintenance, access through or around fences crossing the right-of-way must be provided.
- C) Cable Barrier vertical supports along highway medians or rights-of-way must span the pipeline equidistance from the center of the pipeline and not be closer than 3 feet from the edge of the pipeline. The first footings either side of the pipe shall be set in hand dug holes.
- D) Sound Barrier or Beautification Walls shall be designed with a sub-grade horizontal beam. Vertical supports will be mounted to the horizontal beam. There are no vertical shafts to be drilled on the right-of-way without Explorer's approval in writing.
- E) Installer shall adhere to provisions A & C of GENERAL REQUIREMENTS FOR SURFACE ALTERATIONS.

9. LANDSCAPING

- A) Flower beds, lawns and vegetable gardens are permitted within the right-of-way, but may be damaged by routine or annual maintenance / testing, if planted directly over the pipeline. Heavy maintenance may require total clearing of the right-of-way.
- B) The planting of trees or shrubbery on, or which hang over; Explorer's right-of-way is prohibited unless specifically stated in the right-of-way agreement. Ornamental trees or shrubs required by city ordinance with deep, sophisticated root systems will NOT be allowed over the pipeline at any time.
- C) Provisions of GENERAL REQUIREMENTS FOR SURFACE ALTERATIONS shall apply to landscaping.

10. OPEN WATERWAYS

- A) Open waterways smaller than 3 feet wide at the bottom are defined as "ditches" and must have a minimum of 3 feet of cover from the top of the pipe to the bottom of the ditch, or the ditch must be lined using an approved Explorer method and material. Larger open waterways are considered on a case by case basis.
- B) Anyone altering (clearing, re-grading or changing alignment) a waterway on Explorer's right-of-way must obtain approval from Explorer and shall meet Provisions A, C & D of the GENERAL REQUIREMENTS FOR SURFACE ALTERATIONS.

11. BLASTING/SEISMIC ACTIVITY

All blasting and seismic activity encroachment shall be approved by Explorer prior to work. The party responsible for the blasting shall complete and submit Explorer's Blasting Data Form to Explorer for calculation of the safe blasting distance.

12. SUBSURFACE DRAINAGE TILE (NON METALLIC)

- A) Shall meet provisions A, B, E, F, & H, of GENERAL REQUIREMENTS- BURIED LINE CROSSINGS.
- B) A minimum clearance of 12" is desired at the crossing with a constant grade the full width of Explorer's right-of-way.
- C) Field tiles that cross over the pipeline shall require special non-metallic support. Support is not required for plastic drain lines.

13. TEMPORARY HEAVY EQUIPMENT CROSSINGS

- A) Equipment such as construction, logging, etc., must cross the pipeline only at Explorer approved crossing locations where the cover has been checked and determined adequate to meet load-bearing requirements.
- B) Provisions A, C & D of the GENERAL REQUIREMENTS FOR SURFACE ALTERATIONS also apply.

NOTE: These specifications are subject to change. Please contact your local Explorer Pipeline office prior to commencing any work on the right-of-way.

Right-of-Way Integrity Administrator: (918) 493-5153

EXPLORER PIPELINE AREA OFFICES

These ARE NOT emergency numbers.

Hammond, Indiana (877) 931-7473	Greenville, Texas (877) 918-7473
Wood River, Illinois (877) 926-7473	Houston, Texas (877) 915-7473
Glenpool, Oklahoma (877) 925-7473	Port Arthur, Texas (877) 912-7473
Arlington, Texas (877) 921-7473	

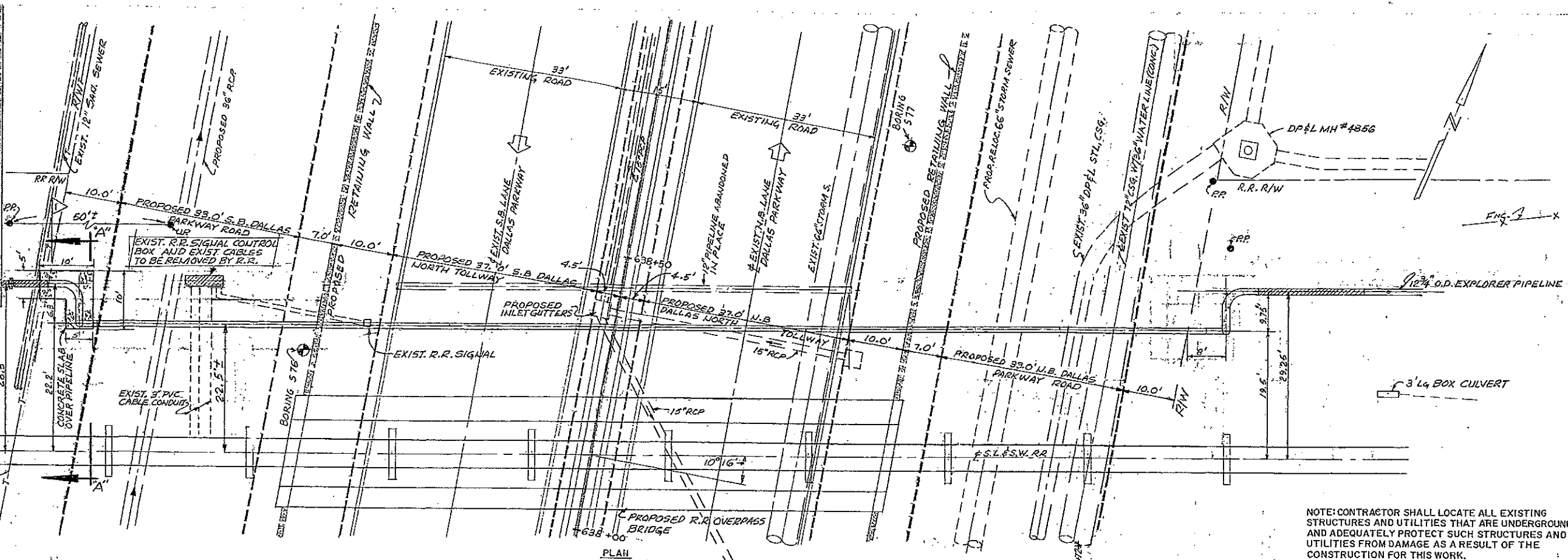
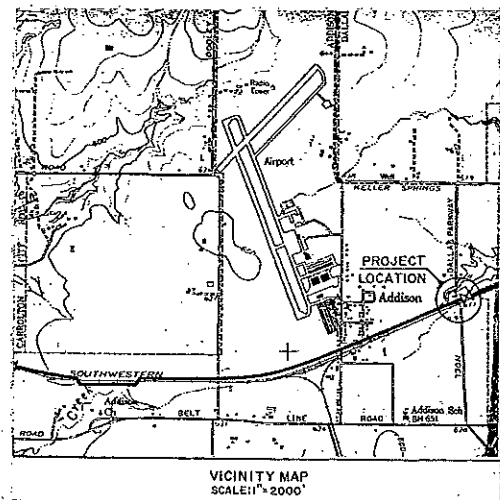
ONE CALL SYSTEMS

National One Call	811
Indiana	1-800-382-5544
Illinois	1-800-892-0123
Missouri	1-800-344-7483
Oklahoma	1-800-522-6543
Texas	1-800-545-6005

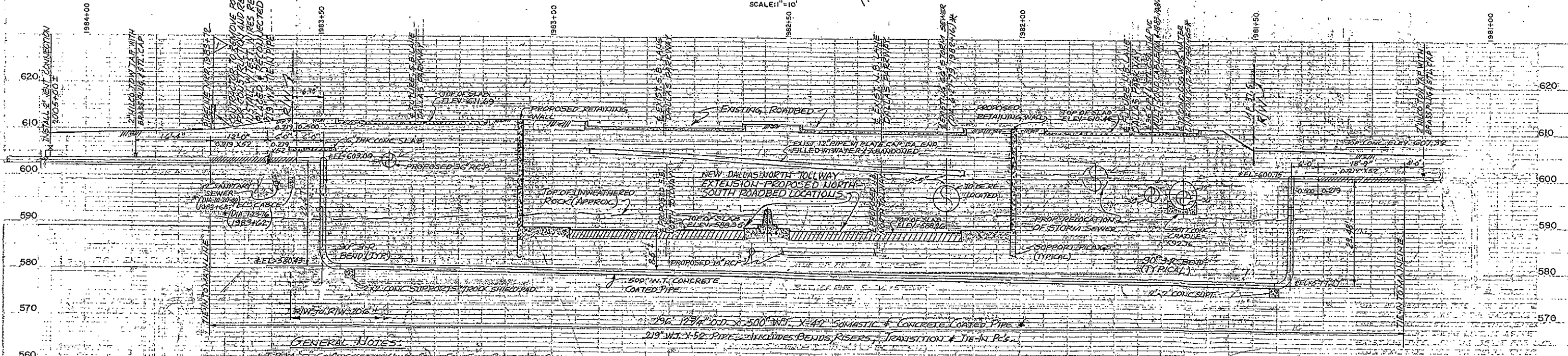
EXPLORER PIPELINE COMPANY
24-HOUR EMERGENCY NUMBER
(CALL TOLL FREE) 1-888-876-0036



Know what's below.
Call before you dig.



NOTE: CONTRACTOR SHALL LOCATE ALL EXISTING STRUCTURES AND UTILITIES THAT ARE UNDERGROUND AND ADEQUATELY PROTECT SUCH STRUCTURES AND UTILITIES FROM DAMAGE AS A RESULT OF THE CONSTRUCTION FOR THIS WORK.



- GENERAL NOTES:**
1. TYPICAL SOFTSCHEDULE TO GIVE CONC. FOR BILLBOARD SIGN OPPOSITE OF BLOCK VALVE, SOUTH R.R. R/W LINE ELEV. 606.16.
 2. CONTRACTOR TO CALL ALL UTILITY COMPANIES 48 HOURS IN ADVANCE OF CONSTRUCTION. THOSE KNOWN IN VICINITY OF WORK AREA ARE:
 - a. SOUTHWESTERN BELL TELEPHONE COMPANY, ENTERPRISE 9800.
 - b. DALLAS POWER & LIGHT CO., 214/628-7000.
 - c. TOWN OF ADDICKS 72" SANITARY SEWER, WEST SIDE 214/233-1331.
 - d. CITY OF DALLAS WATER UTILITY, 36" WATER LINE - W. PRESENT LEFT TURN TO ACT.
 - e. CITY OF DALLAS PUBLIC WORKS 66" STORM SEWER 214/670-3440.
 3. * EXPLORER'S REFERENCE INFORMATION.
 4. CONTRACTOR SHALL EXCAVATE BORING PITS TO A SITE SUFFICIENT TO BORE ROAD AND INSTALL PIPE. EXCAVATIONS TO BE SHORED.
 5. CONTRACTOR TO WELD 1/4" PLATE OUTLETS OF ABANDONED PIPE, 1" COUPLER, EAST END, 2" COUPLER, ON WEST END, SPHERE INSTALLED ON EAST END, FILL LINE WITH WATER FROM EAST END AND SEAL WHEN LINE FILL.
 6. BORING TO BE INSTALLED AS SHOWN ON DRAWING IN PLACE EXISTING ROCK TO BE REMOVED AS PART OF THE EXCAVATION OF BORE PITS BY CONTRACTOR.

- PROFILE**
- SCALE: 1" = 10' HORIZ. 1" = 10' VERT.
1. ALL HORIZONTAL PIPE IN BOTTOM OF BORE TO BE CONCRETE COATED, 500 WT. ALL OTHER PIPE AND FITTINGS TO BE COATED AND UNWRAPPED BY CONTRACTOR ACCORDING TO SPECIFICATIONS.
 2. CONTRACTOR WILL SAND/FILL EXCAVATIONS TO 6" ABOVE RELOCATED PIPE AND TAMPED REMAINING BACKFILL WILL BE REMOVED SPON. EXCLUDING ROCK, TAMPED, 12" TO 30% PROCTER WITH OPTIMUM MOISTURE.
 3. CONTENT BEFORE REMOVING SHEET PILING, ROCK TO BE REMOVED AND REPLACED WITH FILL.
 4. REMAINING EARTH AND ROCK PARTIAL CONC. SO TO BE DISPOSED OF BY CONTRACTOR.
 5. CONTRACTOR SHALL COMPLY WITH ANY CITY, COUNTY OR STATE REGULATIONS AS TO PLACING DANGER SIGNS, SIGNALS OR FLAGS AT EXCAVATION SITES.
 6. CONTRACTOR TO VERIFY DEPTH OF PIPE IN TEXAS TURNPIKE AUTHORITY, 3015 RALEIGH STREET, DALLAS, TEXAS 75215 - 214/577-6200.

12. CONCRETE COATED PIPE WILL BE 10' JOINTS WITH 4" OF CONCRETE REMOVED FROM CENTER. CONTRACTOR WILL CUT PIPE INTO 20' LENGTHS FOR INSTALLING THROUGH BORED HOLE.
13. CONTRACTOR WILL USE THAT 219" WT. PIPE SUPPLIED BY COMPANY FOR HYDROSTATIC TESTING AND TIE-INS.

ENGINEERING RECORD		APPROVAL		DATE	
ENGR'S. APPROVAL	BY	DATE	ENGR'S. APPROVAL	BY	DATE
APPR'VD. FOR BID	<i>[Signature]</i>	4/1/94	REV. "AS-BUILT"	<i>[Signature]</i>	4/1/94
APPR'VD. FOR CONSTR.	<i>[Signature]</i>	7/10/94	REVISION	BY	DATE/CHK/APP.

EXPLORER PIPELINE COMPANY
TULSA, OKLAHOMA

RELOCATION OF 12" O.D. PIPELINE FOR NEW DALLAS NORTH TOLLWAY EXTENSION

DALLAS COUNTY, TEXAS

DRAWN JHS
SCALE NOTED
DATE 5-27-83

CHK'D. *[Signature]*
APPR'VD.
231-PL-5007

REVISION 1