

MINNESOTA UTILITY CROSSING APPLICATION

1. This application shall only be used for crossing facilities in Minnesota, defined as pipeline or wireline facilities that will cross over or under Union Pacific's right-of-way from one side to the other in as near a straight line as possible.
2. This application may not be used for encroachments, defined as pipeline or wireline facilities that enter Union Pacific's right-of-way and either do not leave the right-of-way or follow along the right-of-way for some distance. Encroachments include both a longitudinal occupancy and paralleling, as those terms are defined and/or used in Minn. Stat. § 237.045. Applications for facilities involving encroachments are available on Union Pacific's website (**Procedures for Encroachments**) and must be submitted on-line. Applications for encroachments will be processed in accordance with Union Pacific's established policies and procedures.
3. This application may also not be used for a "Large Energy Facility," as defined in Minn. Stat. § 216B.2421, subd. 2, including (a) transmission lines directly associated with any electric power generating plant or combination of plants at a single site with a combined capacity of 50,000 kilowatts or more, that are necessary to interconnect the plant to the transmission system; (b) any high-voltage transmission line with a capacity of 200 kilovolts or more and greater than 1,500 feet in length; (c) any high-voltage transmission line with a capacity of 100 kilovolts or more with more than ten miles of its length in Minnesota or that crosses a state line; (d) any pipeline greater than six inches in diameter and having more than 50 miles of its length in Minnesota used for the transportation of coal, crude petroleum or petroleum fuels or oil, or their derivatives; or (e) any pipeline for transporting natural or synthetic gas at pressures in excess of 200 pounds per square inch with more than 50 miles of its length in Minnesota. Applications for a large energy facility crossing or encroachment are available on Union Pacific's website (**Procedures for Pipeline Crossings, Procedures for Wireline Crossings or Procedures for Encroachments**) and must be submitted on-line. Applications for large energy facility crossings and encroachments will be processed in accordance with Union Pacific's established policies and procedures.
4. Please confirm that the facility for which this application is being submitted does not involve an encroachment, as defined in paragraph 2 above.
 - The Facility Does Not Involve An Encroachment.
 - The Facility Does Involve An Encroachment. *(Do not proceed with this application. You must follow the instructions in paragraph 2 above.)*
5. Please confirm that the facility for which this application is being submitted is not a "Large Energy Facility," as defined in paragraph 3 above.
 - The Facility Is Not A "Large Energy Facility"
 - The Facility Is A "Large Energy Facility" *(Do not proceed with this application. You must follow the instructions in paragraph 3 above.)*

6. Name of Licensee:

(Exact Name of the Owner of the Utility)

State of Incorporation _____; if not incorporated, please list entity's legal status.

7. Contact information for Licensee:

Contact Name: _____

Address: _____

Email: _____ Phone: _____

8. Contact information of individual to whom agreement is to be mailed *if different than paragraph 7.*

Name: _____

Address: _____

Email: _____ Phone: _____

9. Contact information for individual to contact in the event of questions on this application *if different than paragraph 7.*

Name: _____

Address: _____

Email: _____ Phone: _____

10. This Utility Crossing Application is available on Union Pacific's website, and you may elect to submit it on-line, in accordance with Minn. Stat. § 237.045, subd. 11. For on-line submissions, Union Pacific will provide an emailed confirmation of receipt upon determination that the application is complete. By checking the "yes" box below, you are agreeing that all communications and notices regarding this application will be electronic, including, but not limited to, notices under Minn. Stat. § 237.045, subds. 5 and 8 that the proposed crossing would be a serious threat to the safe operations of the railroad or to the current use of the railroad right-of-way.

YES NO

11. Location of crossing installation:

Latitude and Longitude (*decimal form preferred*) _____

City/County _____

Other location identification information _____

12. Do you have an existing agreement at this location with Union Pacific Railroad that is affected by this request?

NO YES UP Audit No. or Folder No. _____

13. Is this crossing in the public right-of-way?

NO YES

Applications must either be submitted electronically, or sent to the address below by certified mail:

**UNION PACIFIC RAILROAD
REAL ESTATE MINNESOTA UTILITY
1400 DOUGLAS STREET MS 1690
OMAHA NE 68179**

Whether submitted electronically or by certified mail, all crossing applications must include the following:

- The standard crossing fee of \$1,250.00, as prescribed under Minn. Stat. § 237.045, subd. 6. If this application is submitted on-line, the fee must be paid electronically via ACH fund transfer. If this application is submitted by certified mail, the fee must be paid by check made payable to Union Pacific Railroad Company. (The standard crossing fee may or may not represent just compensation for property rights taken. By accepting the standard crossing fee of \$1,250.00, Union Pacific does not waive its right to payment of just compensation. In the event Minn. Stat. § 237.045 (or any part thereof) is determined by a court of competent jurisdiction to be unconstitutional or otherwise contrary to law, Union Pacific specifically reserves the right to pursue any and all applicable legal remedies.)
- Insurance Certificates that, at a minimum, meet the requirements and limits set forth under Minn. Stat. § 237.045, subd. 7. Union Pacific does require railroad protective liability insurance (RPLI), which may be obtained from any insurance company which offers such coverage. Union Pacific has also worked with a national broker,

Marsh USA, to make available RPLI to you or your contractor. You can find additional information, premium quotes and application forms at uprr.march.com.

- Completed Exhibit A form.
- Engineering Design (plan & profile).

PLEASE NOTE: We will notify you upon our receipt of a completed application.

I hereby certify that the information in this application is accurate, that I am a duly authorized representative of the Licensee referenced in paragraph 7 above and that I possess the necessary authority and legal capacity to bind such Licensee and submit this application on its behalf.

(Exact Name of the Owner of the Utility)

By:_____

Its:_____

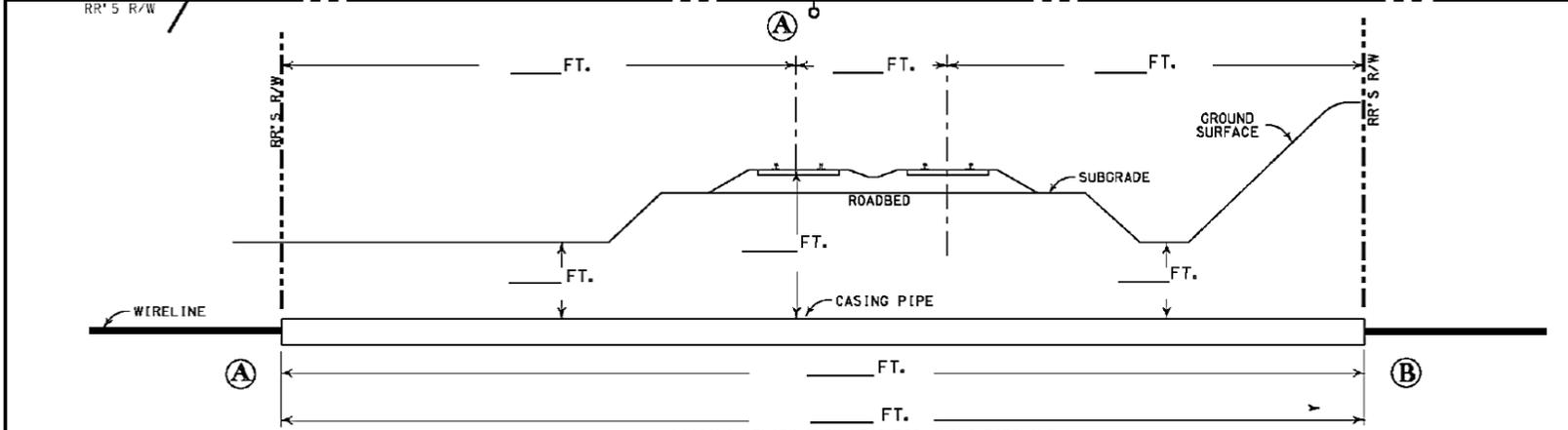
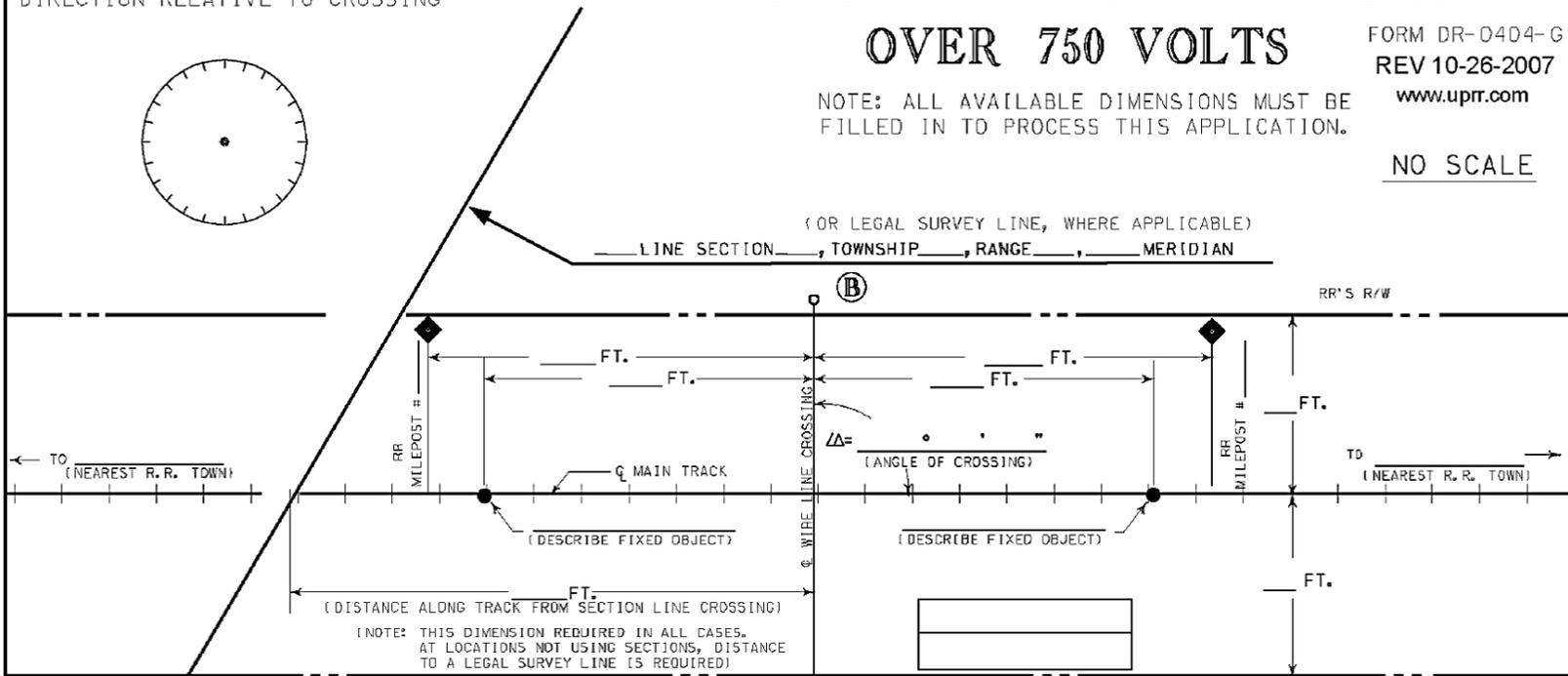
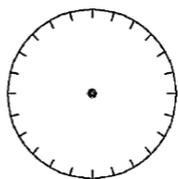
PLACE ARROW INDICATING NORTH
DIRECTION RELATIVE TO CROSSING

UNDERGROUND WIRELINE CROSSING OVER 750 VOLTS

FORM DR-0404-G
REV 10-26-2007
www.uprr.com

NOTE: ALL AVAILABLE DIMENSIONS MUST BE
FILLED IN TO PROCESS THIS APPLICATION.

NO SCALE



NOTES :

(CASING LENGTH WHEN MEASURED ALONG PIPELINE.)

FORMULA TO FIGURE CASING
LENGTH WITH ANGLE OF
CROSSING OTHER THAN 90°



- A) VOLTAGE TO BE CARRIED UNDER TRACK _____
- B) TYPE WIRELINE CROSSING: _____
- C) MAXIMUM CURRENT _____
- D) PHASE _____ NO. OF CIRCUITS _____
- E) MAX. OPERATING CURRENT TO GROUND AT FEED END _____ AMPS.
- F) MAX. OPERATING CURRENT TO GROUND AT LOAD END _____ AMPS.
- G) WHAT TYPE OF FACILITY WILL LINE BE SERVING? _____
- H) IF SEPARATE CABLES ARE USED, WHAT IS THE AVG. DISTANCE BETWEEN CABLES? _____
- I) IF A NEW POWER SUBSTATION IS TO BE BUILT OR REVISED WITHIN 1/2 MILE OF RR,
WHAT IS: MAX OPERATING CURRENT TO GROUND? _____ AMPS;
MAX RESISTANCE TO GROUND? _____ OHMS; MAX FAULT CURRENT TO GROUND? _____ AMPS.
- J) CASING TYPE TO BE INSTALLED _____
- K) METHOD OF INSTALLING CASING PIPE UNDER TRACK(S):
(WET BORE NOT PERMITTED) _____
- L) DISTANCE FROM CENTER LINE OF TRACK TO NEAR FACE OF BORING AND JACKING PITS
WHEN MEASURED AT RIGHT ANGLES TO TRACK _____ FT. (30' MIN.)
- M) APPLICANT HAS CONTACTED 1-800-336-9193
U. P. COMMUNICATION DEPARTMENT, AND HAS DETERMINED FIBER OPTIC CABLE
_____ EXIST IN VICINITY OF WORK TO BE PERFORMED.
TICKET NO. _____

EXHIBIT "A"
(FOR RAILROAD USE ONLY - DO NOT WRITE IN THIS BOX)

UNION PACIFIC RAILROAD CO.

(SUBDIVISION) _____

M. P. _____ E. S. _____

UNDERGROUND WIRELINE CROSSING

(NEAREST RR STATION) _____ (COUNTY) _____ (STATE) _____

FOR _____ (APPLICANT)

RR FILE NO. _____ DATE _____

WARNING

IN ALL OCCASIONS, U. P. COMMUNICATIONS
DEPARTMENT MUST BE CONTACTED IN ADVANCE
OF ANY WORK TO DETERMINE EXISTENCE AND
LOCATION OF FIBER OPTIC CABLE.
PHONE : 1-800-336-9193

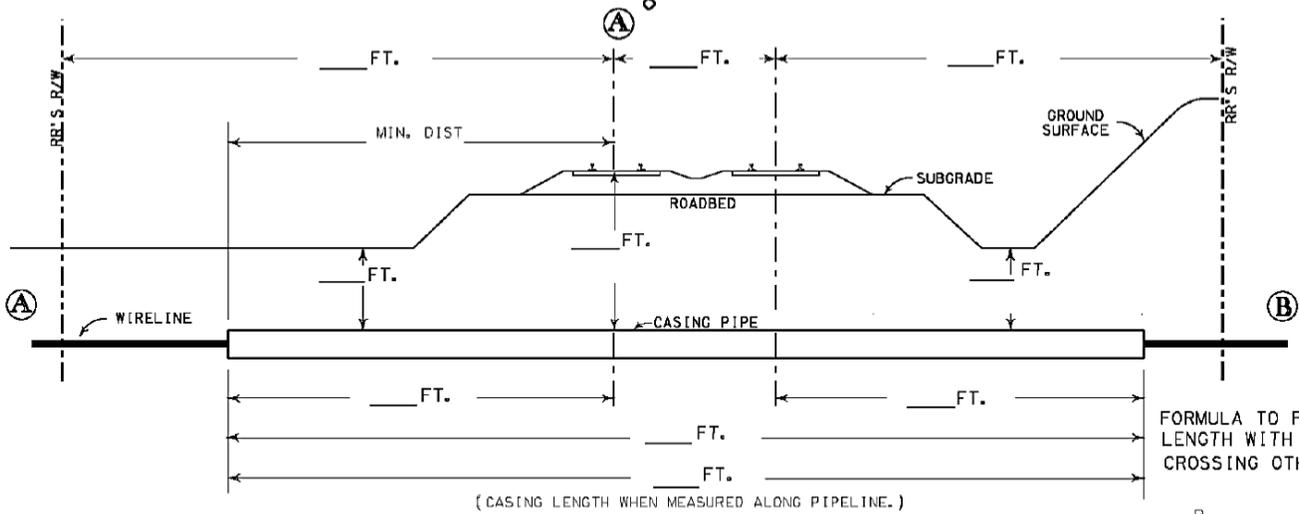
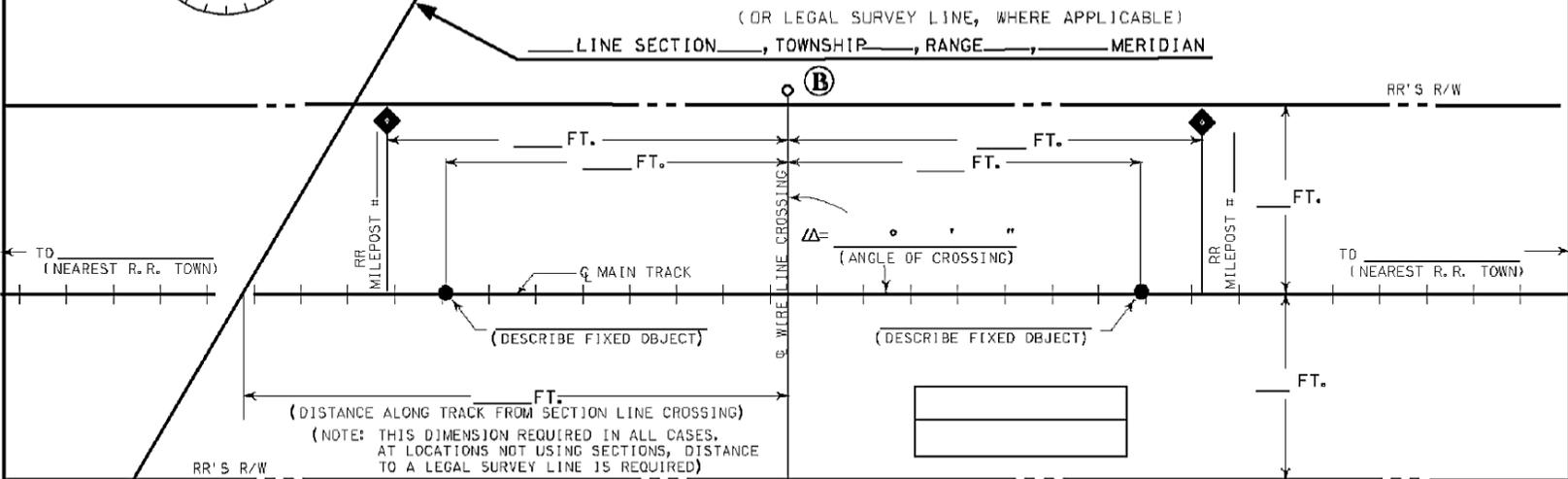
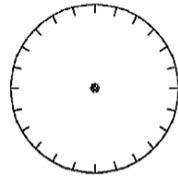
PLACE ARROW INDICATING NORTH DIRECTION RELATIVE TO CROSSING

UNDERGROUND WIRELINE CROSSING

750 VOLTS OR LESS

NOTE: ALL AVAILABLE DIMENSIONS MUST BE FILLED IN TO PROCESS THIS APPLICATION.

FORM DR-0404-F
REV 10-26-2007
www.uprr.com
NO SCALE



FORMULA TO FIGURE CASING LENGTH WITH ANGLE OF CROSSING OTHER THAN 90°

$$\frac{B}{\sin \Delta} = \frac{B}{\sin \Delta} = \frac{1/2 \text{ CASING LENGTH}}{\Delta}$$

MIN. DIST.

NOTES :

- A) TYPE WIRELINE CROSSING: _____
- B) VOLTAGE TO BE CARRIED UNDER TRACK _____ NO. OF WIRES _____
- C) CASING TYPE TO BE INSTALLED _____
- D) METHOD OF INSTALLING CASING PIPE UNDER TRACK(S):
(WET BORE NOT PERMITTED); _____
- E) DISTANCE FROM CENTER LINE OF TRACK TO NEAR FACE OF BORING AND JACKING PITS WHEN MEASURED AT RIGHT ANGLES TO TRACK _____ (30° MIN.)
- F) DISTANCE TO NEAREST ROAD CROSSING WITH SIGNAL LIGHTS OR GATES (IF LESS THAN ONE MILE) _____
- G) APPLICANT HAS CONTACTED 1-800-336-9193, U. P. COMMUNICATION DEPARTMENT, AND HAS DETERMINED FIBER OPTIC CABLE _____ EXIST IN VICINITY OF WORK TO BE PERFORMED. TICKET NO. _____

EXHIBIT "A"

(FOR RAILROAD USE ONLY - DO NOT WRITE IN THIS BOX)

UNION PACIFIC RAILROAD CO.

(SUBJECTS ONLY)

M. P. _____ E. S. _____

UNDERGROUND WIRELINE CROSSING

(NEAREST RR STATION) (COUNTY) (STATE)

FOR _____ (APPLICANT)

RR FILE NO. _____ DATE _____

WARNING

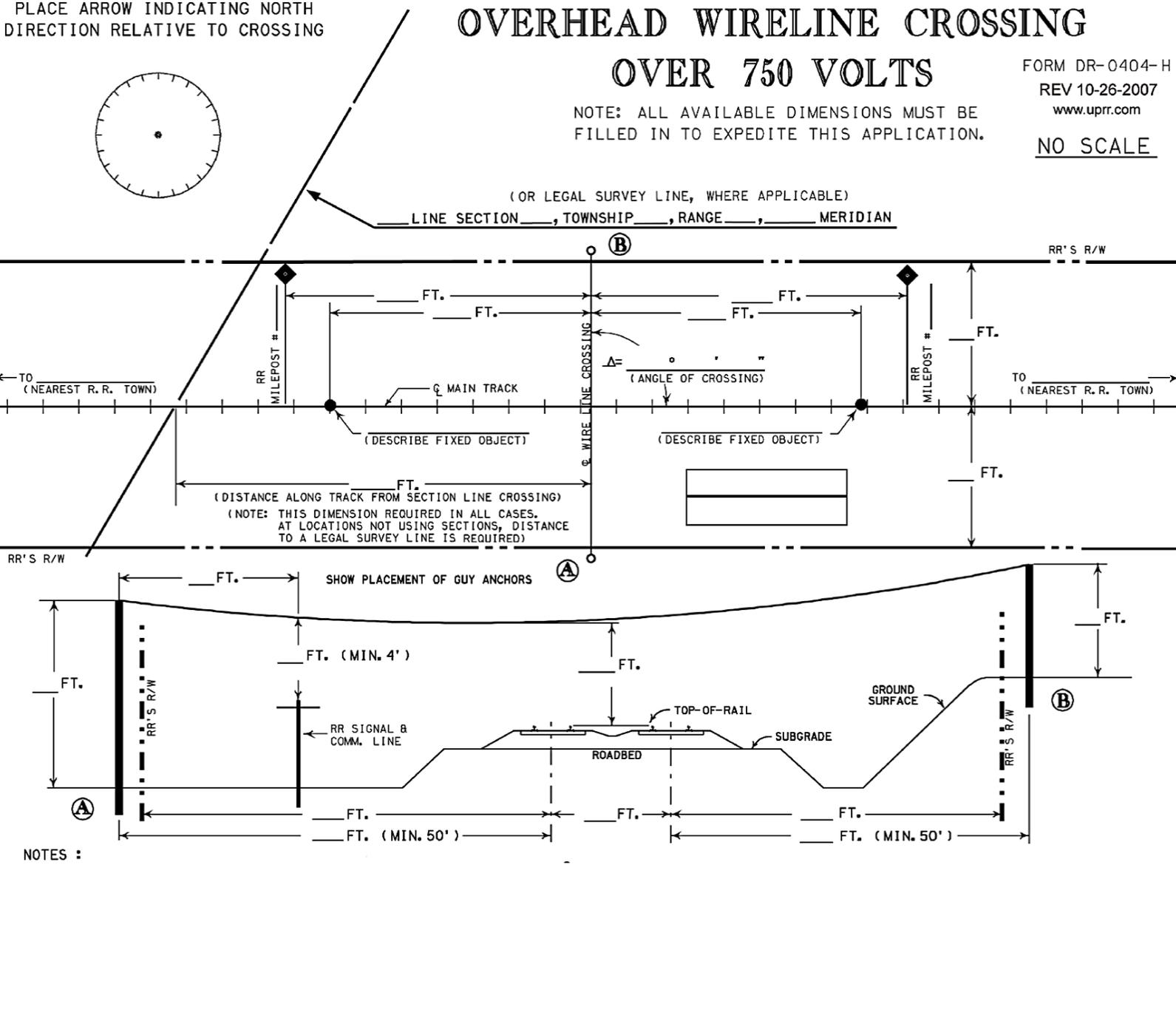
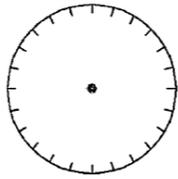
IN ALL OCCASIONS, U. P. COMMUNICATIONS DEPARTMENT MUST BE CONTACTED IN ADVANCE OF ANY WORK TO DETERMINE EXISTENCE AND LOCATION OF FIBER OPTIC CABLE.
PHONE : 1-800-336-9193

PLACE ARROW INDICATING NORTH
DIRECTION RELATIVE TO CROSSING

OVERHEAD WIRELINE CROSSING OVER 750 VOLTS

FORM DR-0404-H
REV 10-26-2007
www.uprr.com
NO SCALE

NOTE: ALL AVAILABLE DIMENSIONS MUST BE
FILLED IN TO EXPEDITE THIS APPLICATION.



NOTES :

- A) DISTRIBUTION LINE _____
- B) IS THERE A SIGNAL OR COMMUNICATION POLELINE NEAR THE TRACKS? _____
- C) MAXIMUM GROUND CURRENT AT FEED: _____ AMPS. AT LOAD: _____ AMPS.
- D) WHAT TYPE OF FACILITY WILL LINE BE SERVING? _____
- E) IF A NEW POWER SUBSTATION IS TO BE BUILT WITHIN 1/2 MILE OF RR, WHAT IS MAX: OPERATING CURRENT TO GROUND? _____ AMPS; RESISTANCE TO GROUND? _____ OHMS; FAULT CURRENT TO GROUND? _____ AMPS.
- F) CIRCUITS TO BE CARRIED ON PROPOSED WIRELINE:

| CIRCUITS | VOLTAGE TO GROUND | VOLTAGE | PHASE | NO. OF WIRES | GAGE | MATERIAL | SOLID OR STRANDED |
|----------|-------------------|---------|-------|--------------|------|----------|-------------------|
| | | | | | | | |
- GROUND WIRE : SIZE _____; MATERIAL _____; SOLID OR STRANDED _____
- G) CROSSING SPAN: LENGTH _____ FT.; NORMAL CONDUCTOR SAG _____ IN. AT _____ °F.
- H) ADJOINING SPANS: LENGTH _____ FT.; NORMAL CONDUCTOR SAG _____ IN. AT _____ °F.
- I) POLES:
 - TIMBER _____ LENGTH _____ FT. DEPTH OF SETTING _____ FT.
 - HEIGHT ABOVE GROUND _____ FT.
 - CLASS OR BUTT AND TOP DIMENSIONS _____
 - (IF STEEL TOWERS ARE EMPLOYED, FURNISH DETAIL DRAWINGS)
- J) HEAD GUYS: NUMBER ON EACH POLE _____; SIZE OR STRENGTH _____; LEAD _____.
- K) SIDE GUYS: NUMBER EACH WAY _____; SIZE OR STRENGTH _____; LEAD _____.
- L) CROSSARMS: SINGLE OR DOUBLE _____; MATERIAL _____; SIZE _____ BY _____.
- M) INSULATORS: PIN OR SUSPENSION _____; MANUFACTURER'S AND CATALOGUE NO. _____.
- N) CONDUCTOR ATTACHMENT: TIES OR CLAMPS _____.
- O) IF POWER LINE PARALLELS TRACK WITHIN 1/2 MILE, INCLUDE DIAGRAM SHOWING SPACING AND CONFIGURATION OF WIRES INCLUDING SHIELD WIRES.
- P) APPLICANT HAS CONTACTED 1-800-336-9193, U.P. COMMUNICATIONS DEPARTMENT, AND HAS DETERMINED FIBER OPTIC CABLE _____ EXIST IN VICINITY OF WORK TO BE PERFORMED. TICKET NO. _____

EXHIBIT "A"
(FOR RAILROAD USE ONLY - DO NOT WRITE IN THIS BOX)

UNION PACIFIC RAILROAD CO.

(SUBDIVISION)

M. P. _____ E. S. _____

OVERHEAD WIRELINE CROSSING

(NEAREST RR STATION) _____ (COUNTY) _____ (STATE) _____

FOR _____ (APPLICANT)

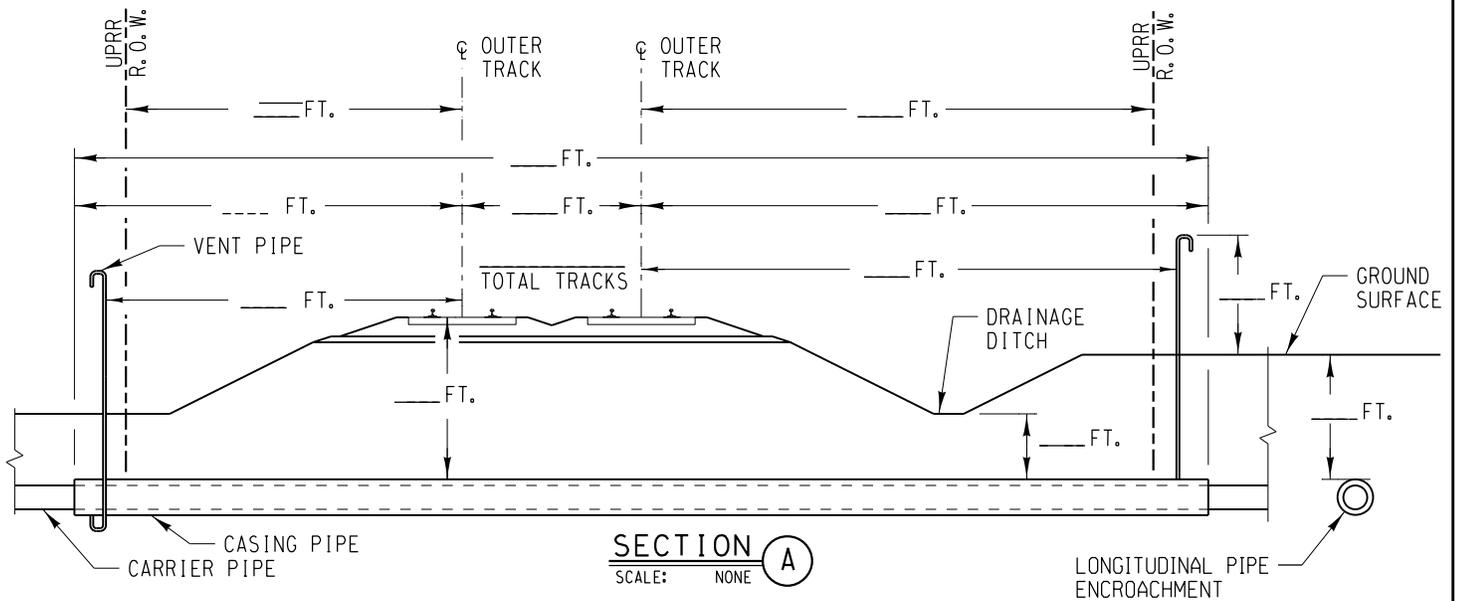
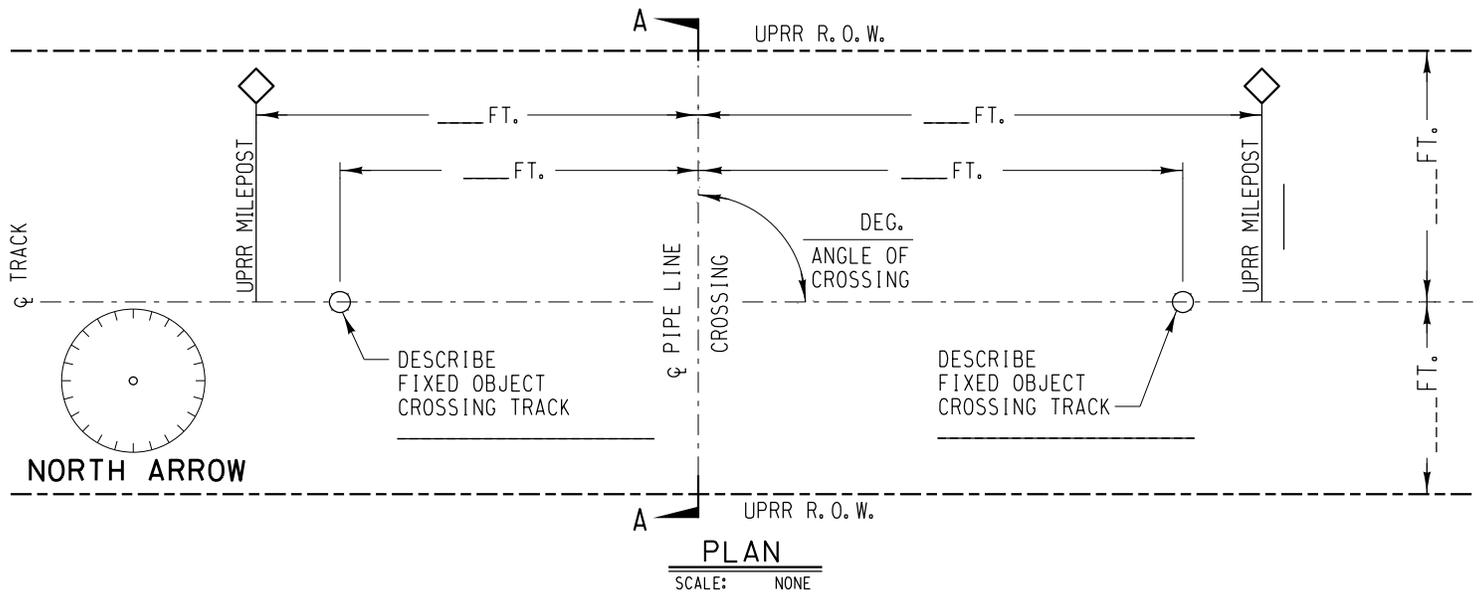
RR FILE NO. _____ DATE _____

WARNING

IN ALL OCCASIONS, U. P. COMMUNICATIONS DEPARTMENT MUST BE CONTACTED IN ADVANCE OF ANY WORK TO DETERMINE EXISTENCE AND LOCATION OF FIBER OPTIC CABLE. PHONE : 1- 800-336-9193

NON-FLAMMABLE LIQUID PIPELINE

- CROSSING
- ENCROACHMENT
- BOTH



- NOTES:
 1) ALL DIMENSIONS MEASURED PERPENDICULAR TO THE CENTERLINE OF TRACK.
 2) REFER TO AREMA VOLUME 1, CHAPTER 1, PART 5, SECTION 5.3.

- A) METHOD OF INSTALLATION _____
 B) DIST. FROM CENTERLINE OF TRACK TO PIPE ENCROACHMENT _____
 C) SIGNS PROVIDED? _____
 D) CARRIER MATERIAL _____, IF RCP, CLASS V? _____
 COMMODITY TO BE CONVEYED _____,
 OPERATIONAL PRESSURE _____ PSI. MAOP _____ PSI.
 WALL THICKNESS (INCH)/ SCHEDULE _____, DIAMETER _____ IN.
 CATHODIC/COATING PROTECTION _____
 E) CASING MATERIAL _____, IF RCP, CLASS V? _____
 TOTAL LENGTH CASING PIPE: _____ FT.
 WALL THICKNESS _____ IN. DIAMETER _____ IN.
 CATHODIC/COATING PROTECTION _____
 CASING PIPE IS _____ AT THE ENDS.
 F) DISTANCE FROM CENTERLINE OF TRACK TO NEAR FACE OF
 BORING AND JACKING PITS WHEN MEASURED AT RIGHT ANGLES
 _____ AND _____.



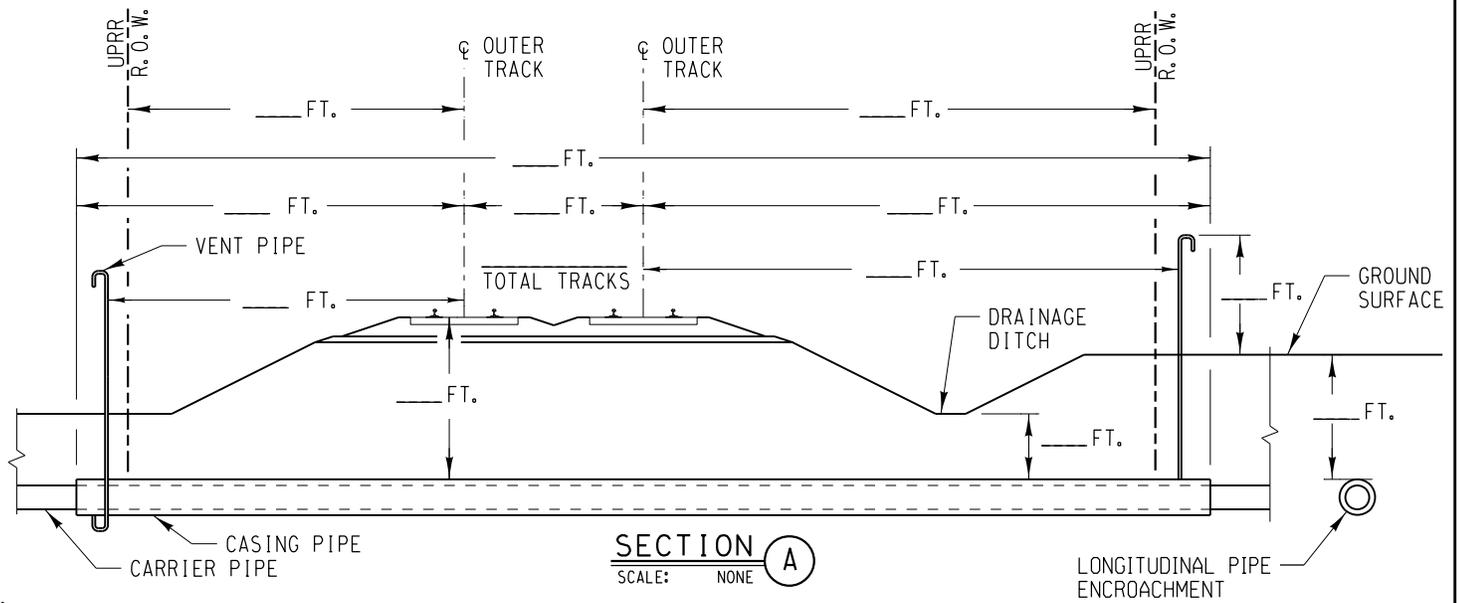
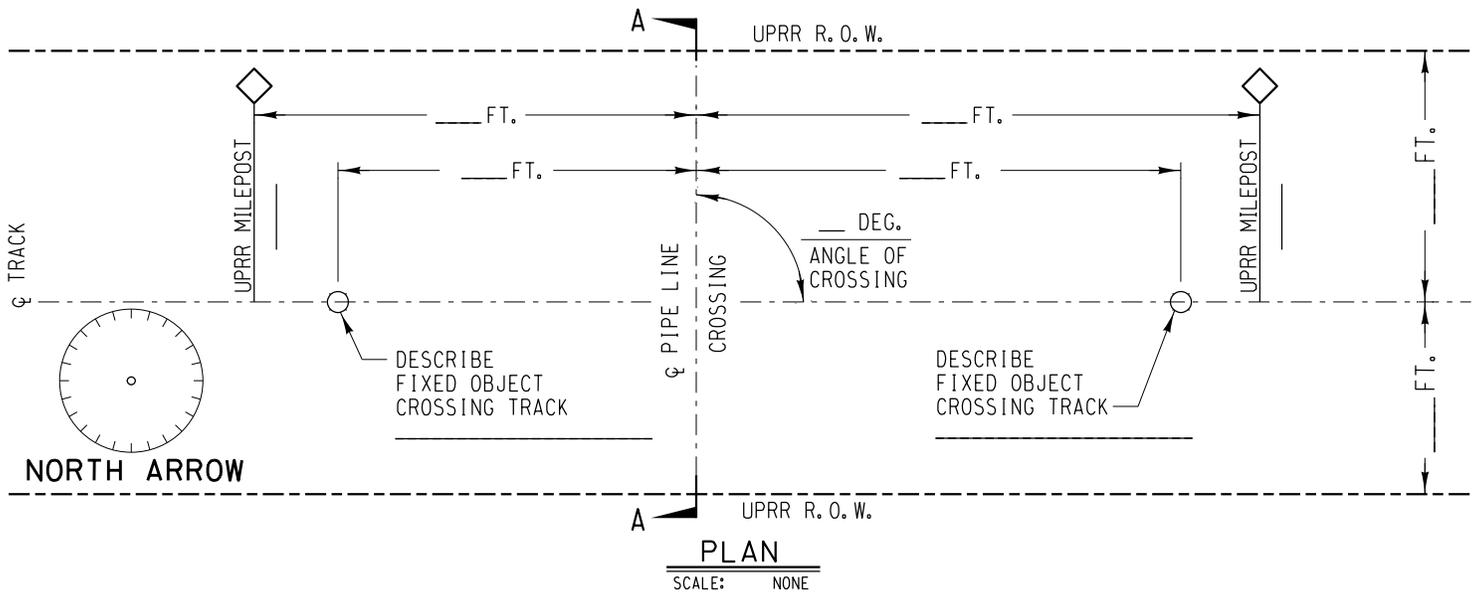
BUILDING AMERICA®

EXHIBIT A

| | |
|---------------|----------------|
| SUBDIVISION: | |
| TRACK TYPE: | |
| M.P.: | LAT.: |
| E.S.M.: | LONG.: |
| NEAREST CITY: | COUNTY: STATE: |
| APPLICANT: | |
| FILE NO.: | DATE: / / |

GAS (NON-LIQUID) FLAMMABLE & NON-FLAMMABLE PIPELINE

- CROSSING
- ENCROACHMENT
- BOTH



NOTES:
 1) ALL DIMENSIONS MEASURED PERPENDICULAR TO THE CENTERLINE OF TRACK.
 2) REFER TO AREMA VOLUME 1, CHAPTER 1, PART 5, SECTION 5.2.

A) METHOD OF INSTALLATION _____

B) DIST. FROM CENTERLINE OF TRACK TO PIPE ENCROACHMENT _____

C) SIGNS PROVIDED? _____

D) CARRIER MATERIAL _____, IF RCP, CLASS V? _____
 COMMODITY TO BE CONVEYED _____,
 OPERATIONAL PRESSURE _____ PSI. MAOP _____ PSI.
 WALL THICKNESS (INCH)/ SCHEDULE _____, DIAMETER _____ IN.
 CATHODIC/COATING PROTECTION _____

E) CASING MATERIAL _____, IF RCP, CLASS V? _____
 TOTAL LENGTH CASING PIPE: _____ FT.
 WALL THICKNESS _____ IN. DIAMETER _____ IN.
 CATHODIC/COATING PROTECTION _____
 CASING PIPE IS _____ AT THE ENDS.

F) DISTANCE FROM CENTERLINE OF TRACK TO NEAR FACE OF
 BORING AND JACKING PITS WHEN MEASURED AT RIGHT ANGLES
 _____ AND _____.



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EXHIBIT "A"

SUBDIVISION: _____

TRACK TYPE: _____

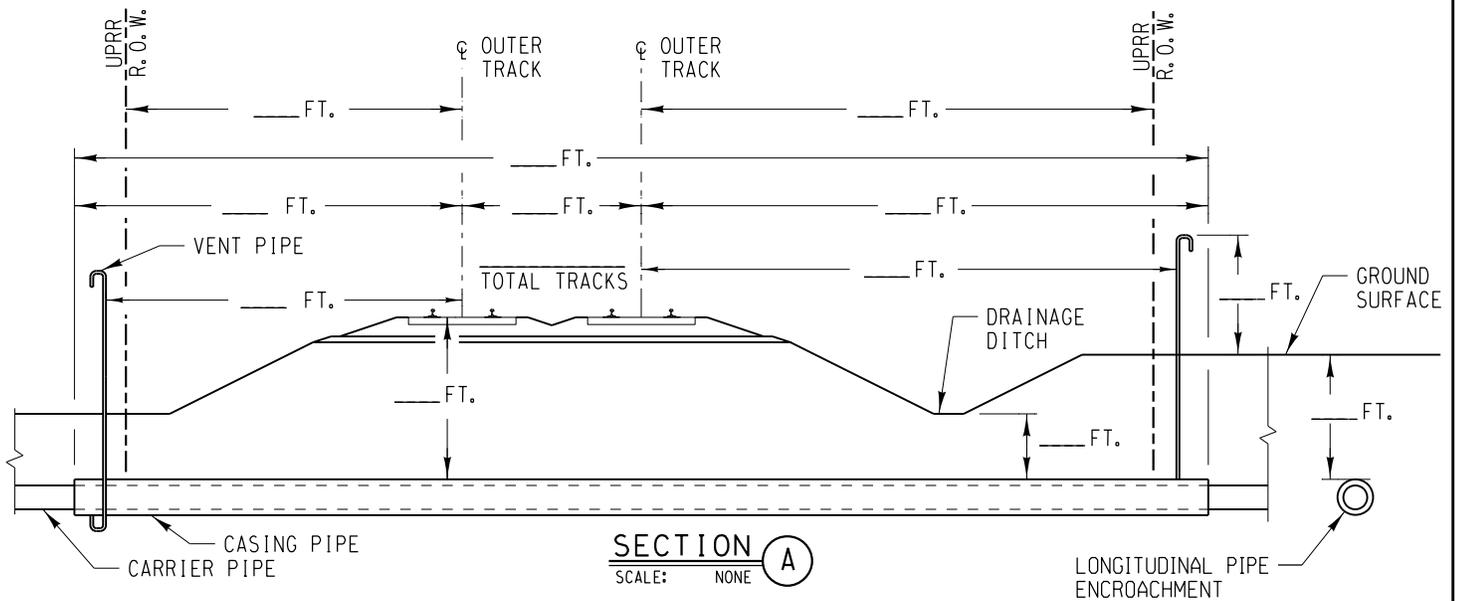
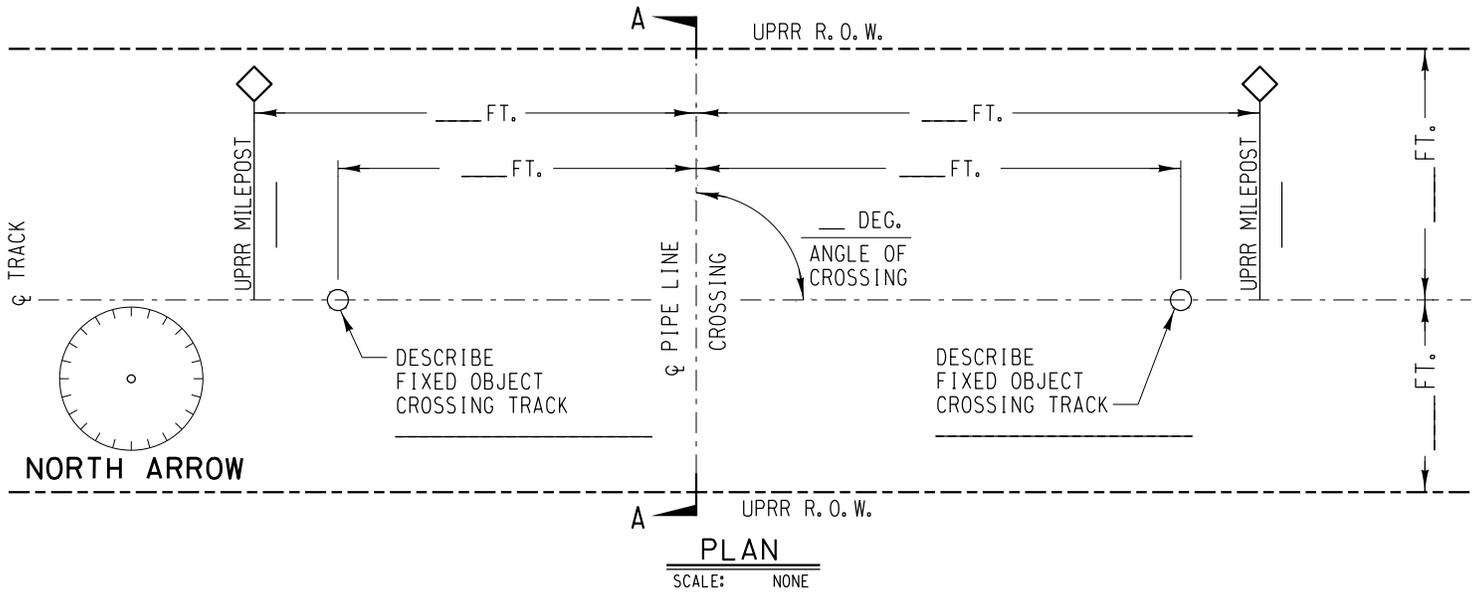
| | |
|---------------------|----------------------------|
| M.P.: _____ | LAT.: _____ |
| E.S.M.: _____ | LONG.: _____ |
| NEAREST CITY: _____ | COUNTY: _____ STATE: _____ |

APPLICANT: _____

| | |
|-----------------|--------------------------|
| FILE NO.: _____ | DATE: ____ / ____ / ____ |
|-----------------|--------------------------|

FLAMMABLE LIQUID PIPELINE

- CROSSING
- ENCROACHMENT
- BOTH



- NOTES:
 1) ALL DIMENSIONS MEASURED PERPENDICULAR TO THE CENTERLINE OF TRACK.
 2) REFER TO AREMA VOLUME 1, CHAPTER 1, PART 5, SECTION 5.1.

- A) METHOD OF INSTALLATION _____
 B) DIST. FROM CENTERLINE OF TRACK TO PIPE ENCROACHMENT _____
 C) SIGNS PROVIDED? _____
 D) CARRIER MATERIAL _____, IF RCP, CLASS V? _____
 COMMODITY TO BE CONVEYED _____,
 OPERATIONAL PRESSURE _____ PSI. MAOP _____ PSI.
 WALL THICKNESS (INCH)/ SCHEDULE _____, DIAMETER _____ IN.
 CATHODIC/COATING PROTECTION _____
 E) CASING MATERIAL _____, IF RCP, CLASS V? _____
 TOTAL LENGTH CASING PIPE: _____ FT.
 WALL THICKNESS _____ IN. DIAMETER _____ IN.
 CATHODIC/COATING PROTECTION _____
 CASING PIPE IS _____ AT THE ENDS.
 F) DISTANCE FROM CENTERLINE OF TRACK TO NEAR FACE OF
 BORING AND JACKING PITS WHEN MEASURED AT RIGHT ANGLES
 _____ AND _____.

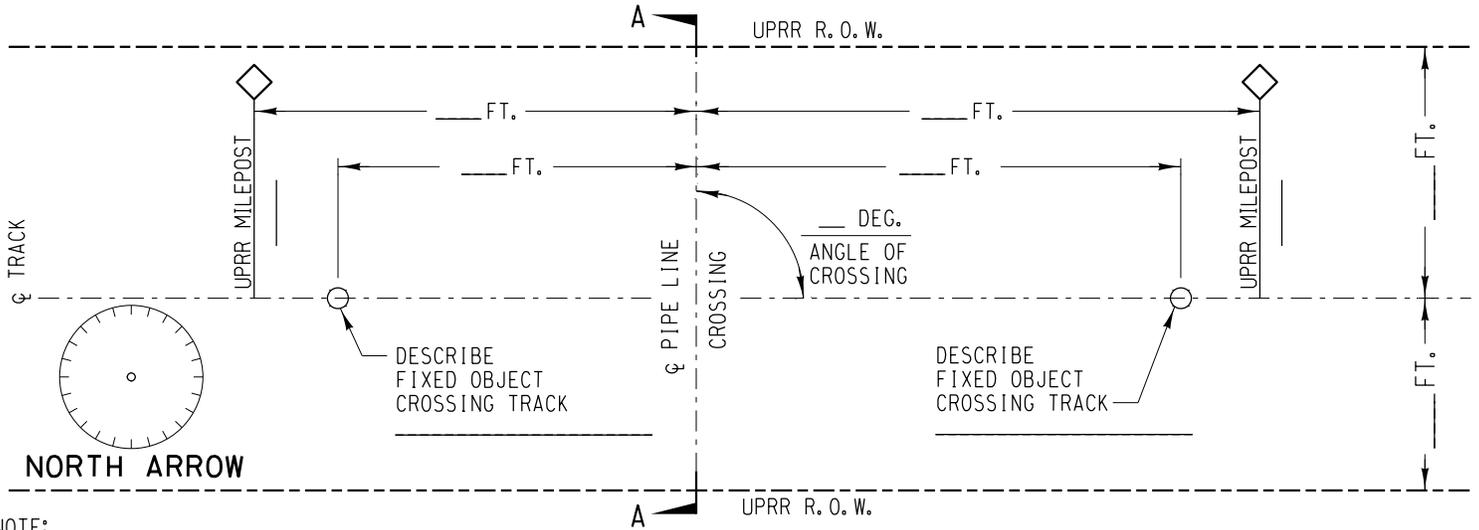


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EXHIBIT "A"

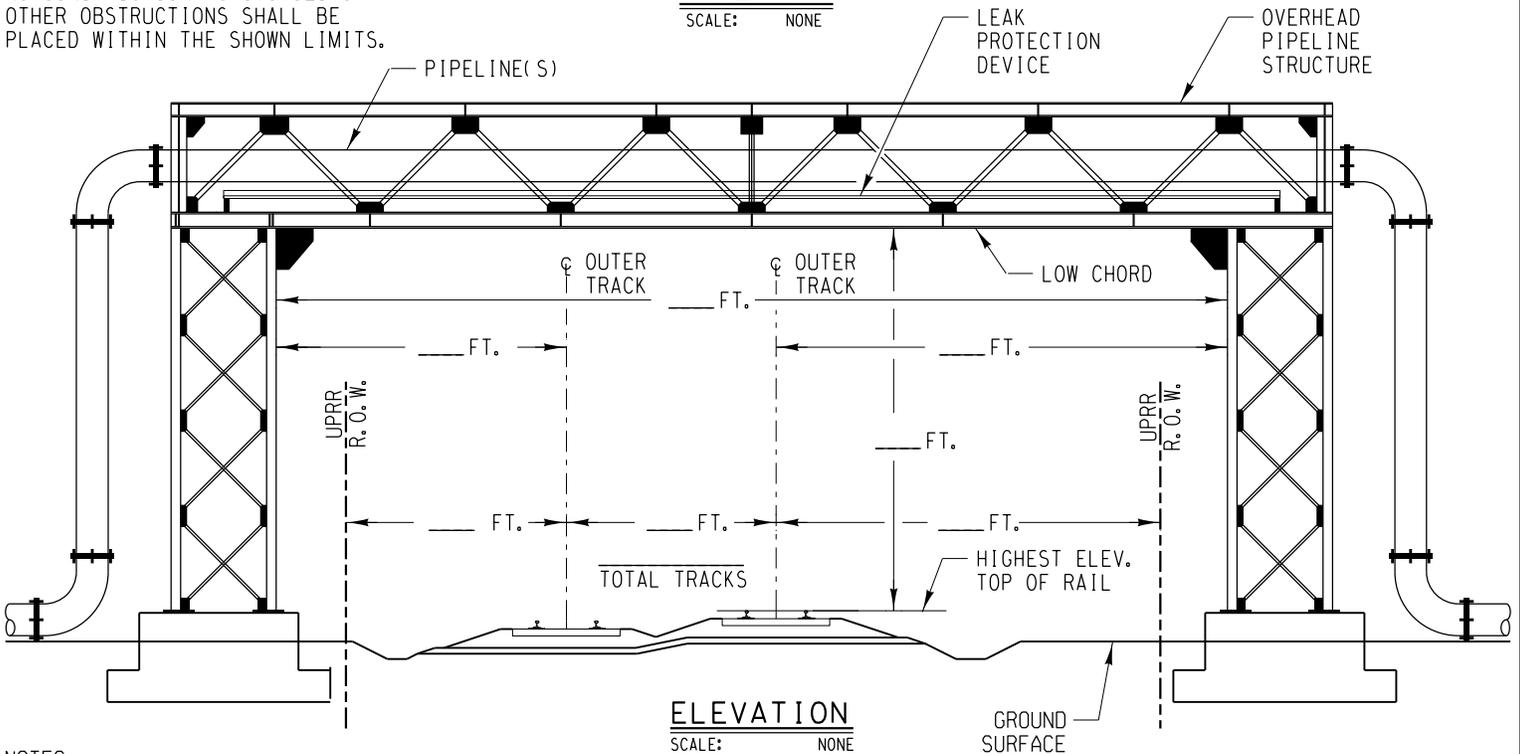
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|---------------|----------------|
| SUBDIVISION: | |
| TRACK TYPE: | |
| M.P.: | LAT.: |
| E.S.M.: | LONG.: |
| NEAREST CITY: | COUNTY: STATE: |
| APPLICANT: | |
| FILE NO.: | DATE: / / |

OVERHEAD PIPELINE CROSSING



NOTE:
NO CONSTRUCTION ACTIVITIES OR
OTHER OBSTRUCTIONS SHALL BE
PLACED WITHIN THE SHOWN LIMITS.

PLAN
SCALE: NONE



ELEVATION
SCALE: NONE

NOTES:
1) ALL DIMENSIONS MEASURED PERPENDICULAR TO THE CENTERLINE OF TRACK.
2) REFER TO AREMA VOLUME 1, CHAPTER 1, PART 5, SECTION 5.4.

A) CARRIER MATERIAL _____,
COMMODITY TO BE CONVEYED _____,
B) WILL LEAK PROTECTION BE PROVIDED? ____.



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EXHIBIT "A"

SUBDIVISION:

TRACK TYPE:

M.P.:

LAT.:

E.S.M.:

LONG.:

NEAREST CITY:

COUNTY:

STATE:

APPLICANT:

FILE NO.:

DATE: / /