

# SEDA-COG JOINT RAIL AUTHORITY (JRA)

## PIPELINE OCCUPANCY

### PIPE DATA SHEET

PLATE 1

(For crossings and longitudinal occupancy)

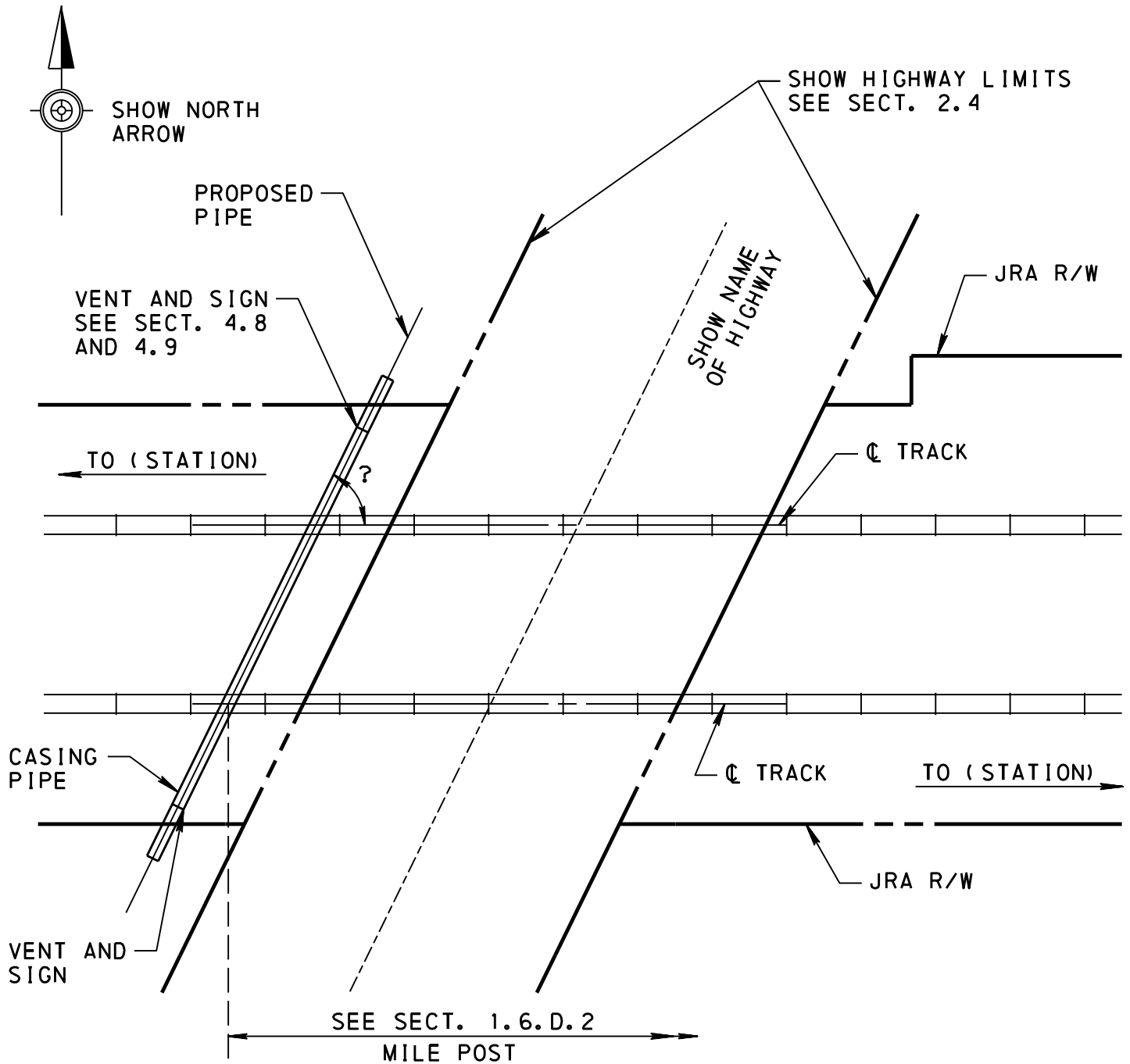
	<u>CARRIER PIPE</u>	<u>PIPE DATA</u>	<u>CASING PIPE</u>
Contents To Be Handled . . . . .	_____		_____
Normal Operating Pressure . . . . .	_____		_____
Nominal Size of Pipe . . . . .	_____		_____
O.S. Diameter . . . . .	_____		_____
I.S. Diameter . . . . .	_____		_____
Wall Thickness . . . . .	_____		_____
Weight Per Foot . . . . .	_____		_____
Material . . . . .	_____		_____
Process of Manufacture . . . . .	_____		_____
Specification . . . . .	_____		_____
Grade or Class . . . . .	_____		_____
Test Pressure . . . . .	_____		_____
Type of Joint . . . . .	_____		_____
Type of Coating . . . . .	_____		_____
Details of Cathodic Protection . . . . .	_____		_____
Details of Seal or Protection At Ends of Casing . . . . .	_____		_____
Method of Installation . . . . .	_____		_____
Character of Subsurface Material at the Crossing Location . . . . .	_____		_____
Approximate Ground Water Level . . . . .	_____		_____
Source of Information on Subsurface Conditions (Boring , Test Pits or Other)	_____		

**Note:** Any soil investigation made on railroad property or adjacent to tracks shall be carried on under the supervision of JRA's Engineer. (See Section 1.4)

SEDA-COG JOINT RAIL AUTHORITY (JRA)  
PIPELINE OCCUPANCY

PLATE II

INFORMATION TO BE SHOWN ON PLAN VIEW OF DRAWINGS  
WHEN FACILITY IS A CROSSING



PLAN

SCALE OF DRAWING TO BE SHOWN

NOTES:

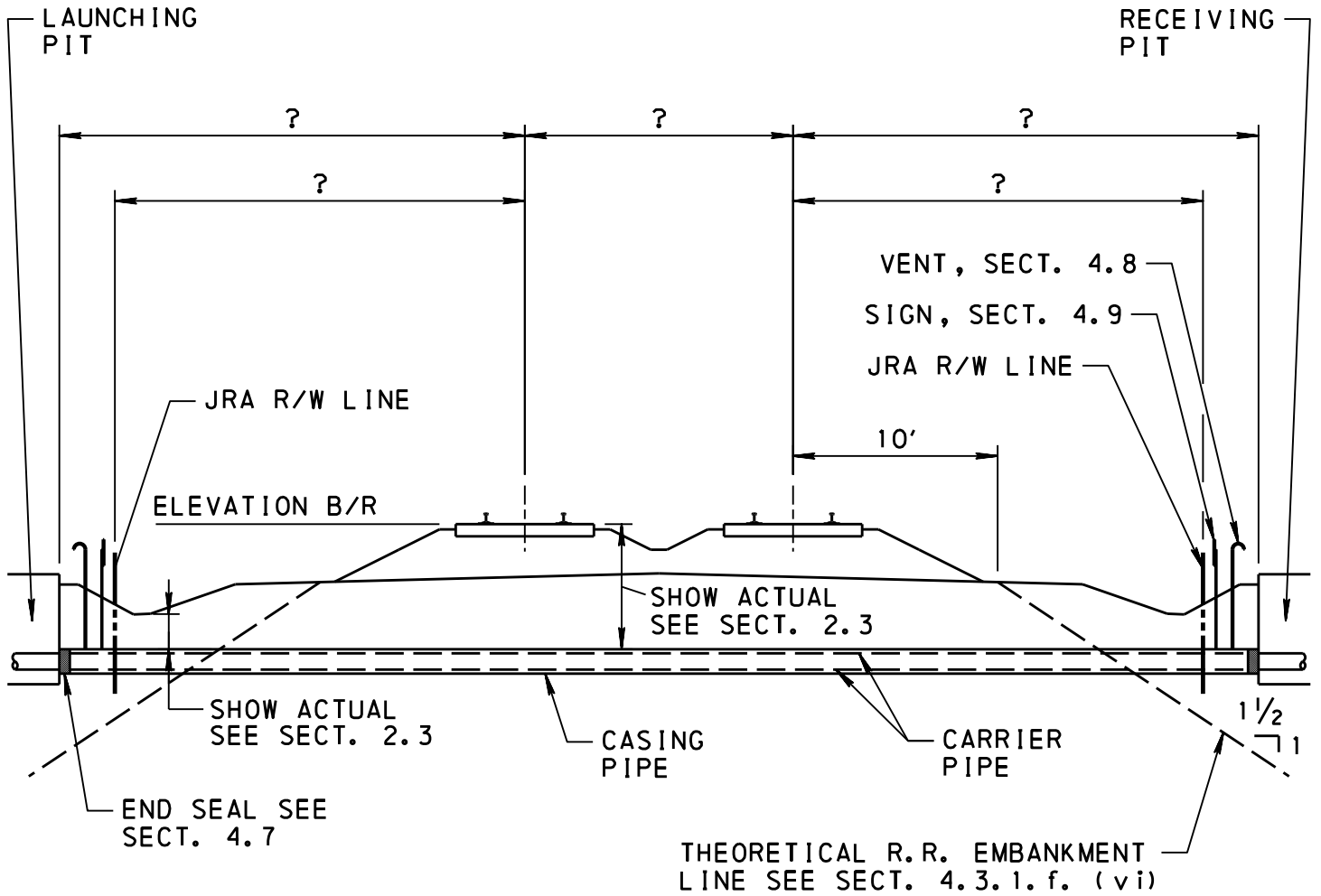
IF THE PROPOSED LINE IS WITHIN HIGHWAY LIMITS, THE SAME INFORMATION IS REQUIRED AS SHOWN ON THIS PLATE.

IF THE PROPOSED PIPE IS TO SERVE A NEW DEVELOPMENT, A MAP SHOWING THE AREA IN RELATION TO ESTABLISHED AREAS AND ROADS IS TO BE SENT WITH THE REQUEST.

SEDA-COG JOINT RAIL AUTHORITY (JRA)  
PIPELINE OCCUPANCY

PLATE III

PIPELINE CROSSING



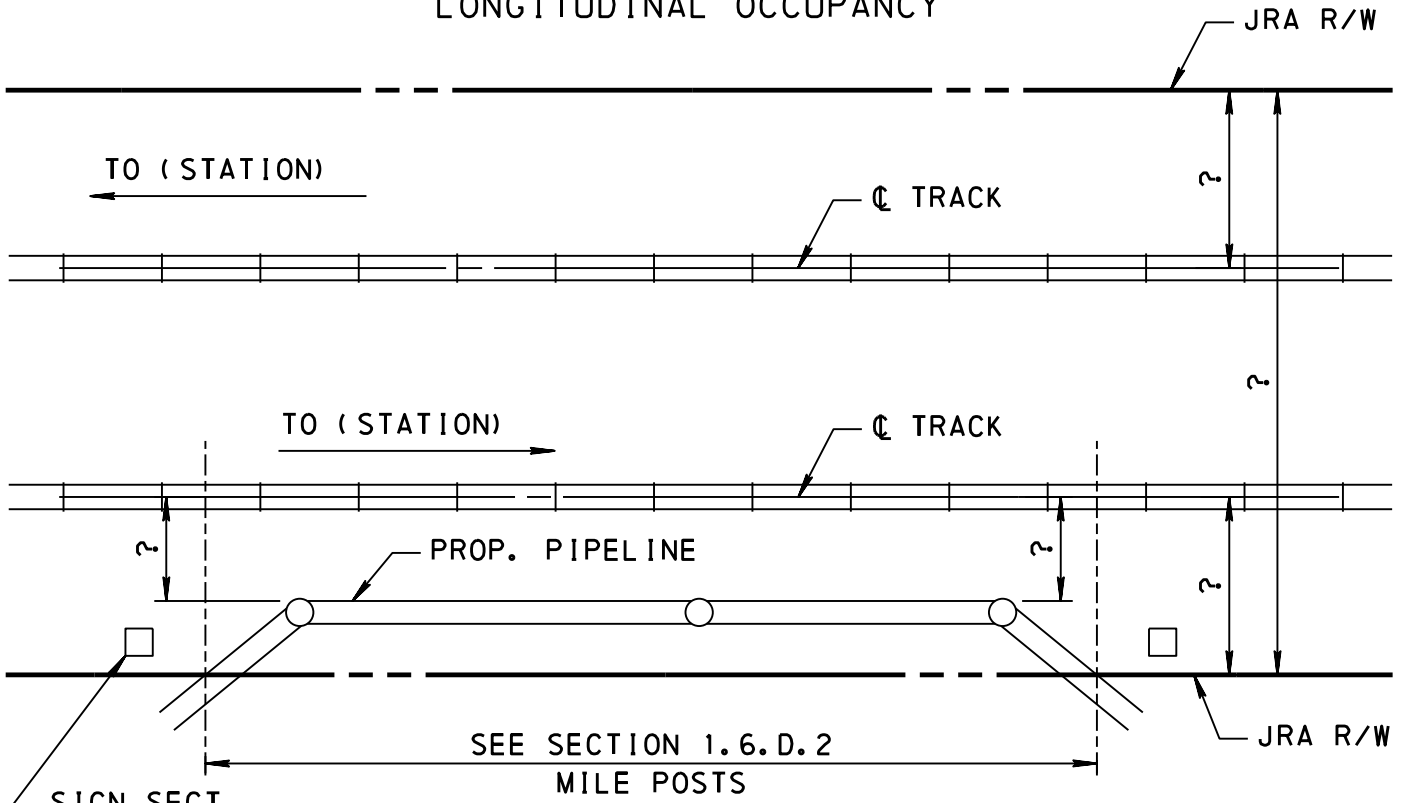
PROFILE

SCALE OF DRAWING TO BE SHOWN

B/R = BASE OF RAIL

# SEDA-COG JOINT RAIL AUTHORITY (JRA) PIPELINE OCCUPANCY

## LONGITUDINAL OCCUPANCY

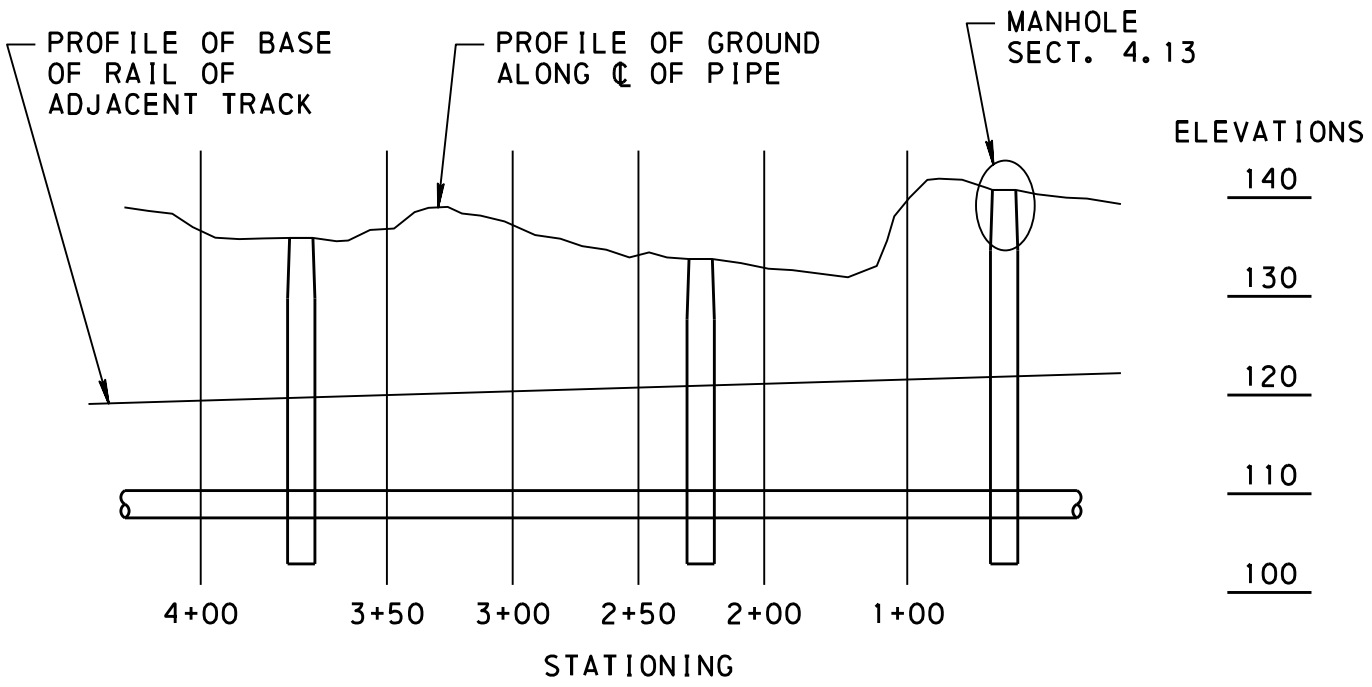


SIGN SECT.  
4.9

SEE SECTION 1.6.D.2  
MILE POSTS

PLAN-SEE SECT. 1.6

SCALE OF DRAWING TO BE SHOWN



PROFILE OF BASE  
OF RAIL OF  
ADJACENT TRACK

PROFILE OF GROUND  
ALONG Q OF PIPE

MANHOLE  
SECT. 4.13

ELEVATIONS

4+00      3+50      3+00      2+50      2+00      1+00

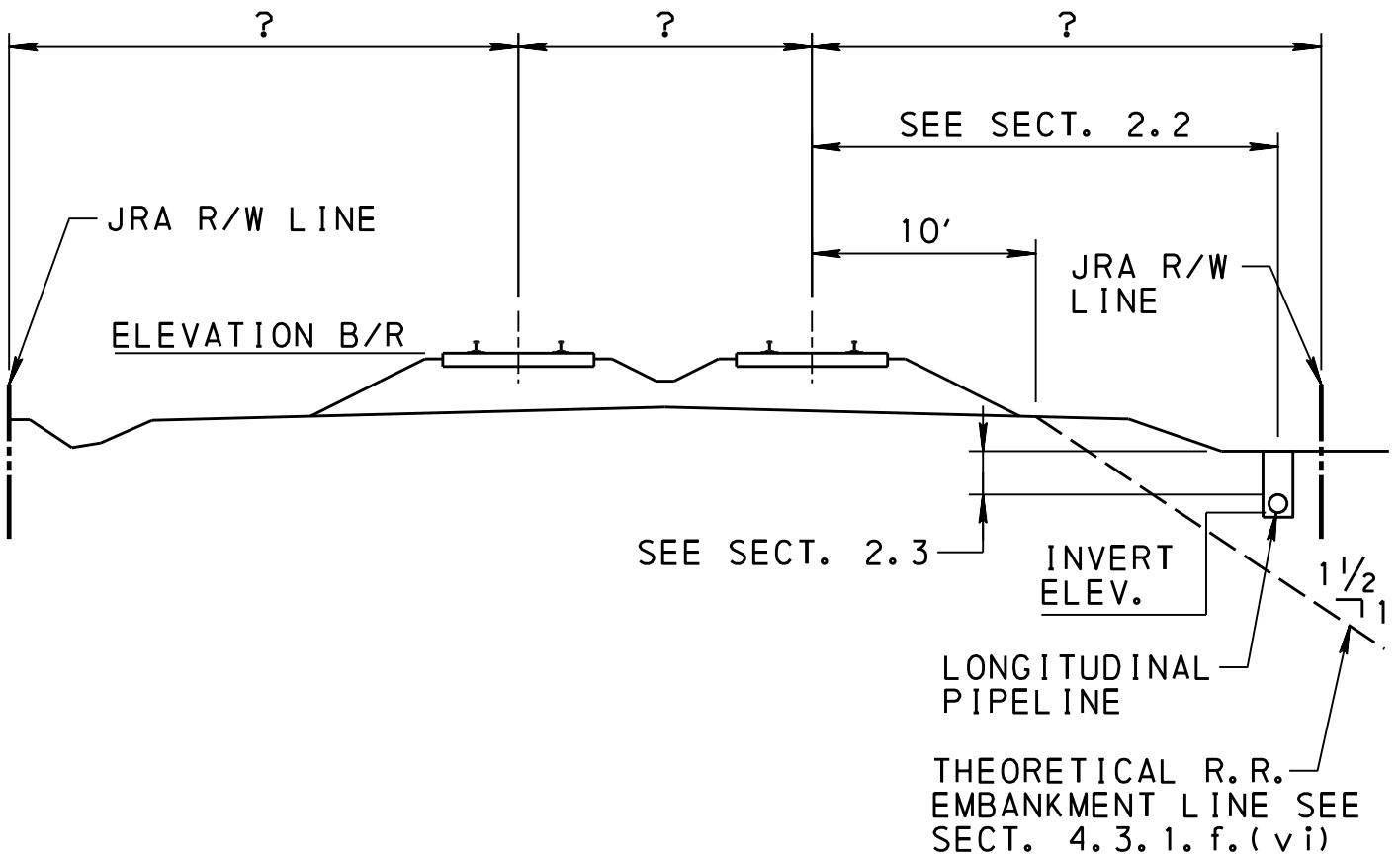
STATIONING

PROFILE-SEE SECT. 1.6

SCALE: HORIZ.: \_\_\_\_\_  
VERT.: \_\_\_\_\_

SEDA-COG JOINT RAIL AUTHORITY (JRA)  
PIPELINE OCCUPANCY

LONGITUDINAL OCCUPANCY



SECTION

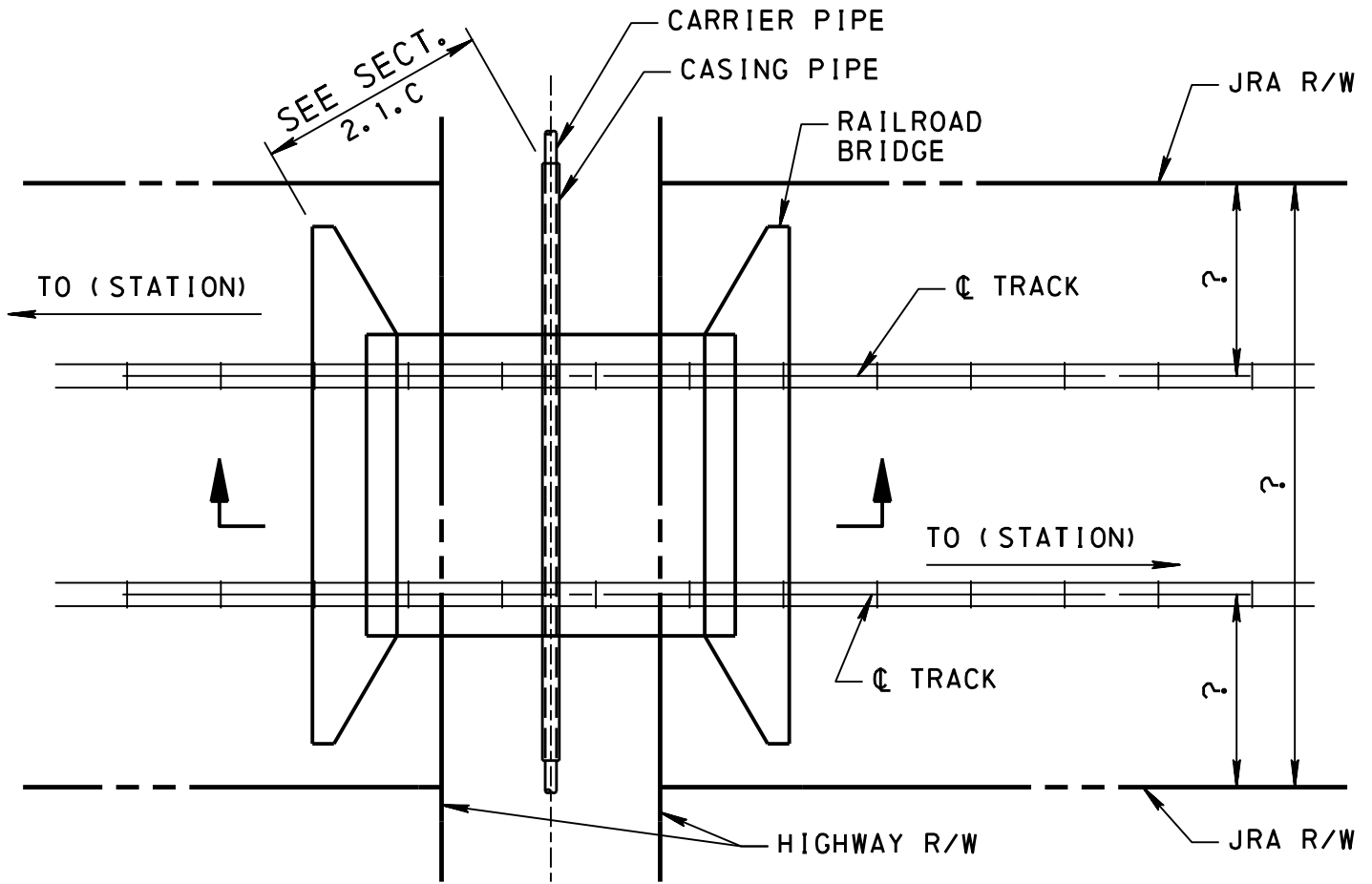
SCALE OF DRAWING TO BE SHOWN

NOTE:  
SECTIONS TO BE TAKEN EVERY 500 FEET (MAX.).

B/R = BASE OF RAIL

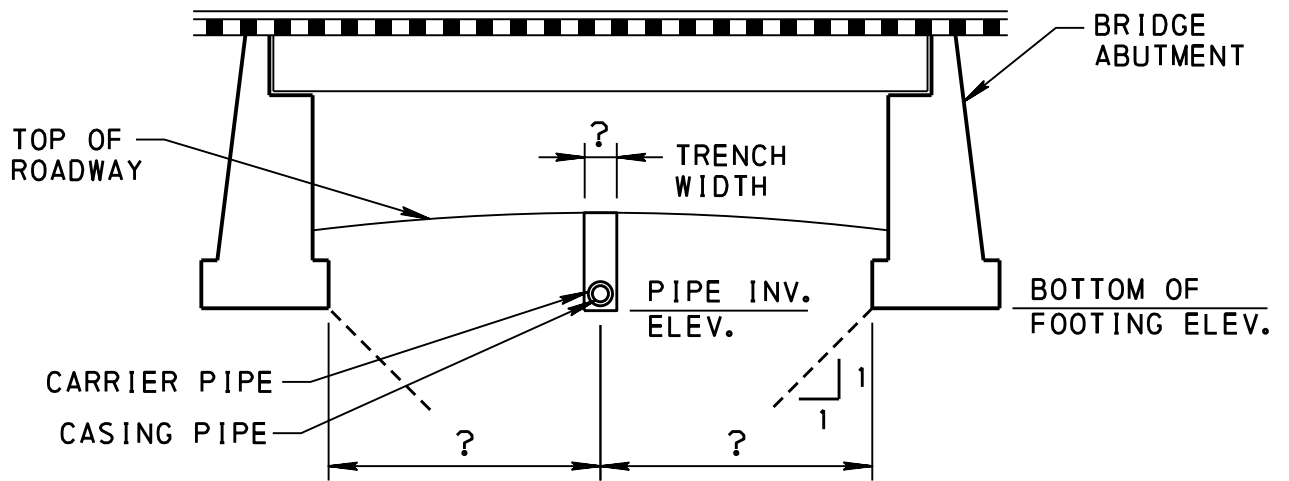
SEDA-COG JOINT RAIL AUTHORITY (JRA)  
PIPELINE OCCUPANCY

PIPELINE IN HIGHWAY UNDER RAILROAD BRIDGE



PLAN

SCALE OF DRAWING TO BE SHOWN



SECTION

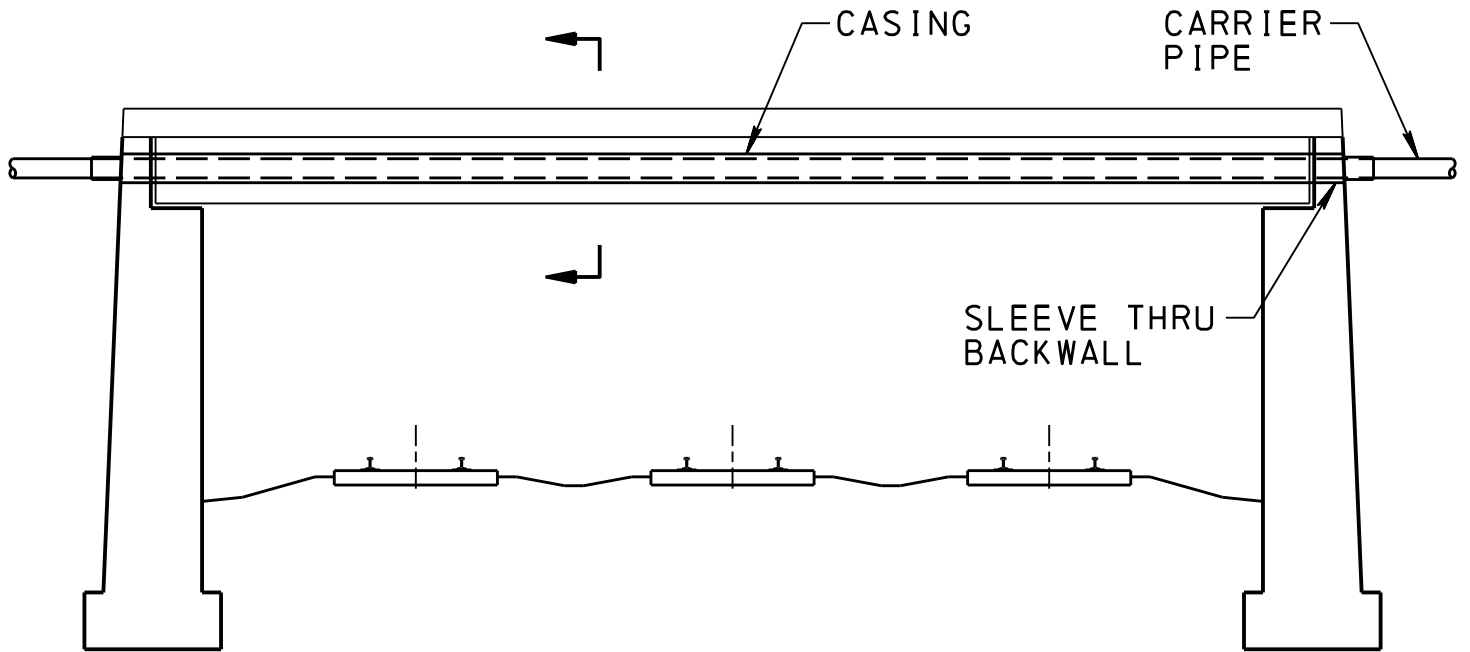
SCALE OF DRAWING TO BE SHOWN

NOTE:  
PIPE OR EXCAVATION MUST NOT BE WITHIN THE 1 TO 1 SLOPE  
LINE THAT EXTENDS FROM BOTTOM OF FOOTING.

SEDA-COG JOINT RAIL AUTHORITY (JRA)  
PIPELINE OCCUPANCY

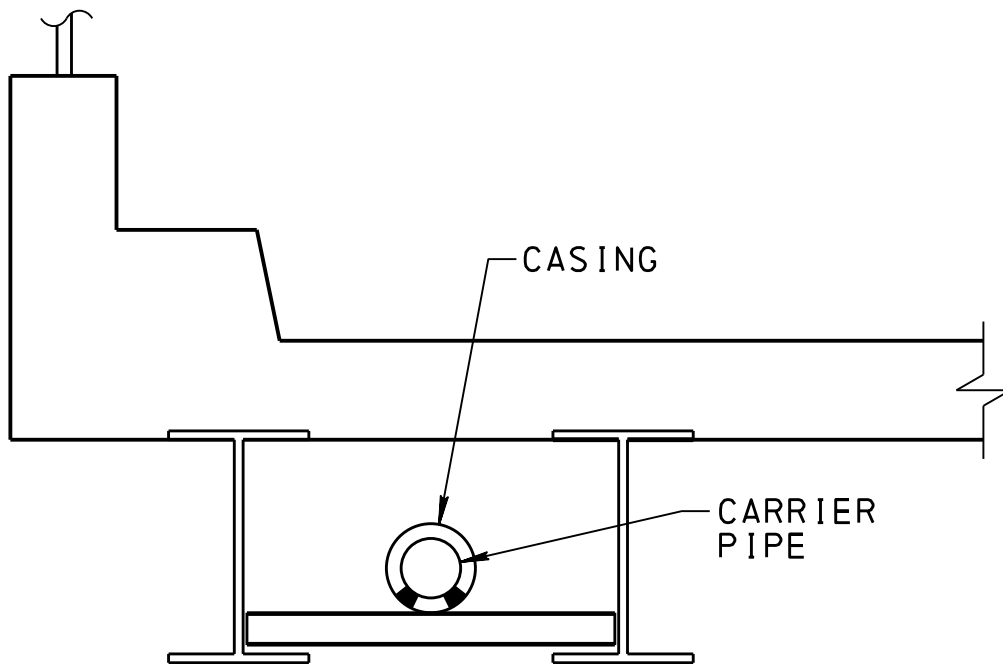
PLATE VII

PIPELINE ON HIGHWAY BRIDGE OVER RAILROAD



ELEVATION

SCALE OF DRAWING TO BE SHOWN



SECTION

SCALE OF DRAWING TO BE SHOWN

# SEDA-COG JOINT RAIL AUTHORITY (JRA) PIPELINE OCCUPANCY

PLATE VIII

## TEST BORING LOG EXAMPLE

PROJECT: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 DATE STARTED: \_\_\_\_\_ DATE COMPLETED: \_\_\_\_\_

HOLE NO.: \_\_\_\_\_  
 SURF. EL.: \_\_\_\_\_  
 JOB NO.: \_\_\_\_\_

N-NO. OF BLOWS TO DRIVE SAMPLER 12" W/140#  
 HAMMER FALLING 30"-ASTM D-1586, STANDARD  
 PENETRATION TEST

GROUND WATER DEPTH  
 WHILE DRILLING: \_\_\_\_\_

C-NO. OF BLOWS TO DRIVE CASING 12" W/ \_\_\_\_\_ #  
 HAMMER FALLING \_\_\_\_\_ "/OR \_\_\_\_\_ % CORE RECOVERY

BEFORE CASING  
 REMOVED: \_\_\_\_\_  
 AFTER CASING  
 REMOVED: \_\_\_\_\_

CASING TYPE - HOLLOW STEM AUGER

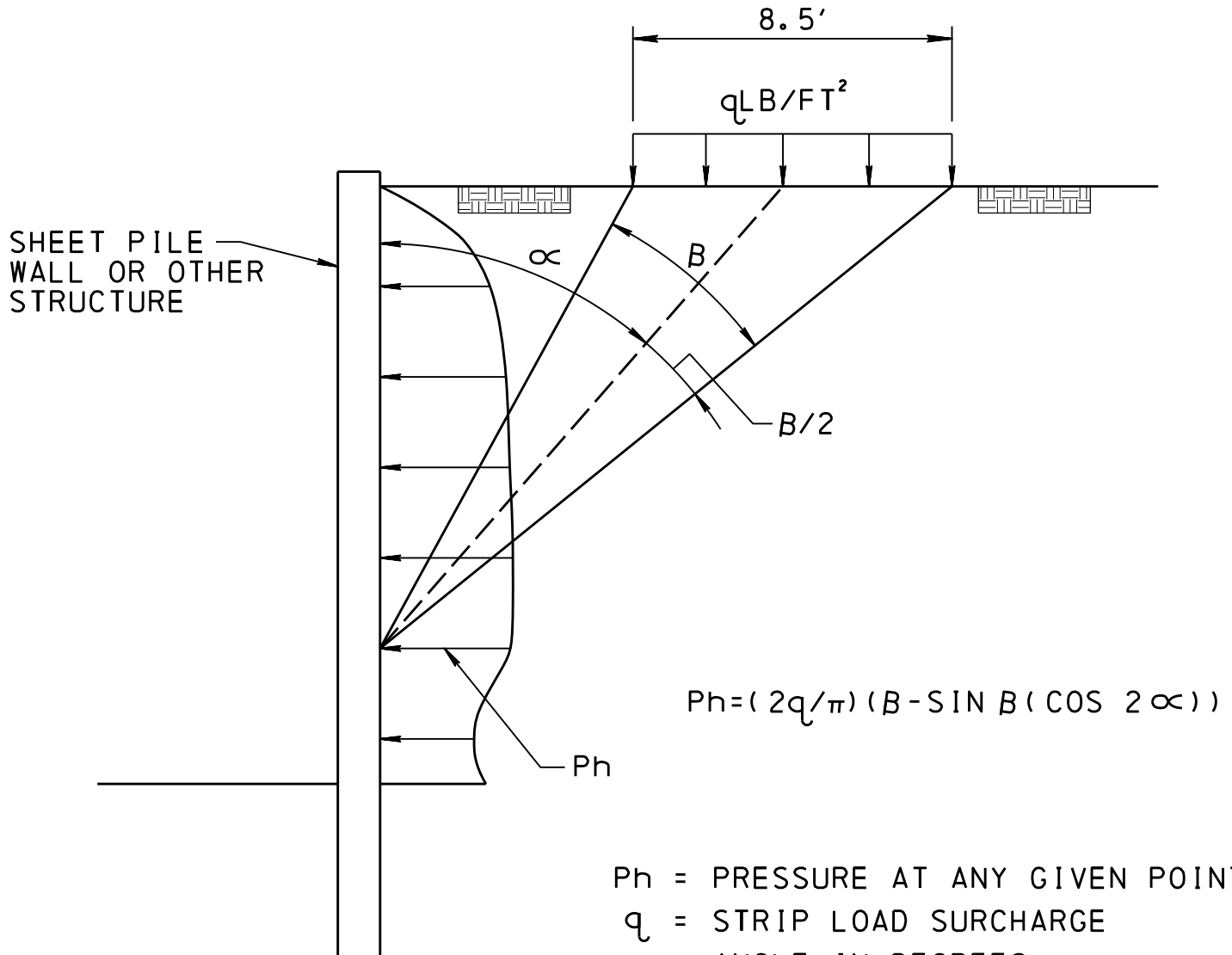
SHEET 1 OF 1

DEPTH	SAMPLE DEPTH	SAMPLE NUMBER	C	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH	
5.0	0.0' -	1		6/14		BROWN MOIST MEDIUM DENSE FINE TO COARSE SAND AND FINE TO MEDIUM GRAVEL, LITTLE SILT	6.0'	
	2.0'			14/19	28			
	2.0' -	2		9/15				
	4.0'			15/23	30			
10.0	4.0' -	3		17/18		BROWN MOIST STIFF SILT  BROWN MOIST VERY STIFF SILT, LITTLE FINE TO COARSE SAND, LITTLE FINE GRAVEL	8.5'	
	6.0'			11/21	29			
	6.0' -	4		9/6				
	8.0'			5/7	11			
	8.0' -	5		10/12				
	10.0'			11/11	23			
15.0	10.0' -	6		12/11		GRAY DRY HARD SILTY WEATHERED SHALE TOP OF ROCK	12.5'	
	11.3'			50-.3'				
								15.0'
20.0	15.0' -	R-1	REC	BX CORE		GRAY WEATHERED STEEPLY BEDDED SHALE		
	20.0'		46"	77%				
						BOTTOM OF BORING	20.0'	





LATERAL PRESSURE DIAGRAM



- $Ph$  = PRESSURE AT ANY GIVEN POINT
- $q$  = STRIP LOAD SURCHARGE
- $\alpha$  = ANGLE IN DEGREES
- $B$  = ANGLE IN RADIANS

ELEVATION

LATERAL PRESSURE DUE TO STRIP LOAD