

09/08/99

TIP PROJECT: B-3126

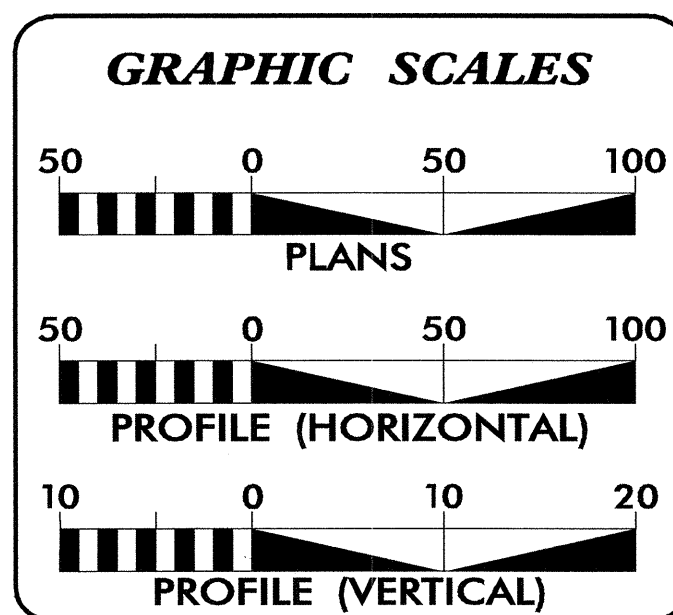
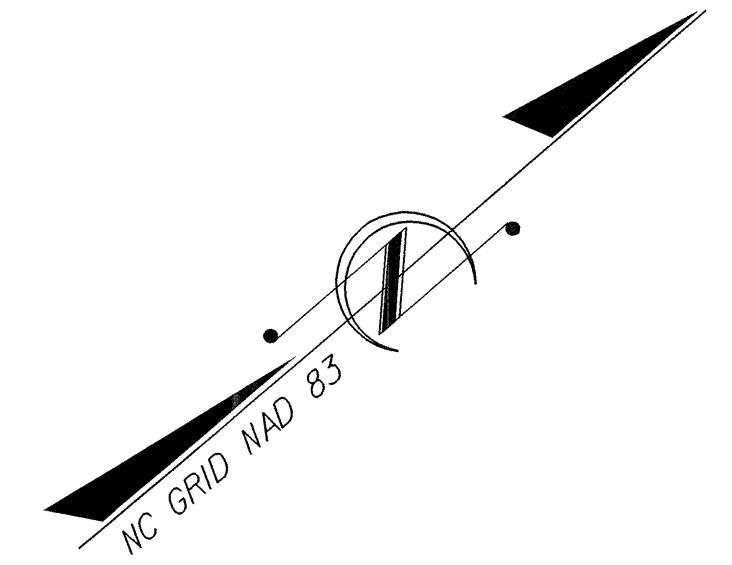
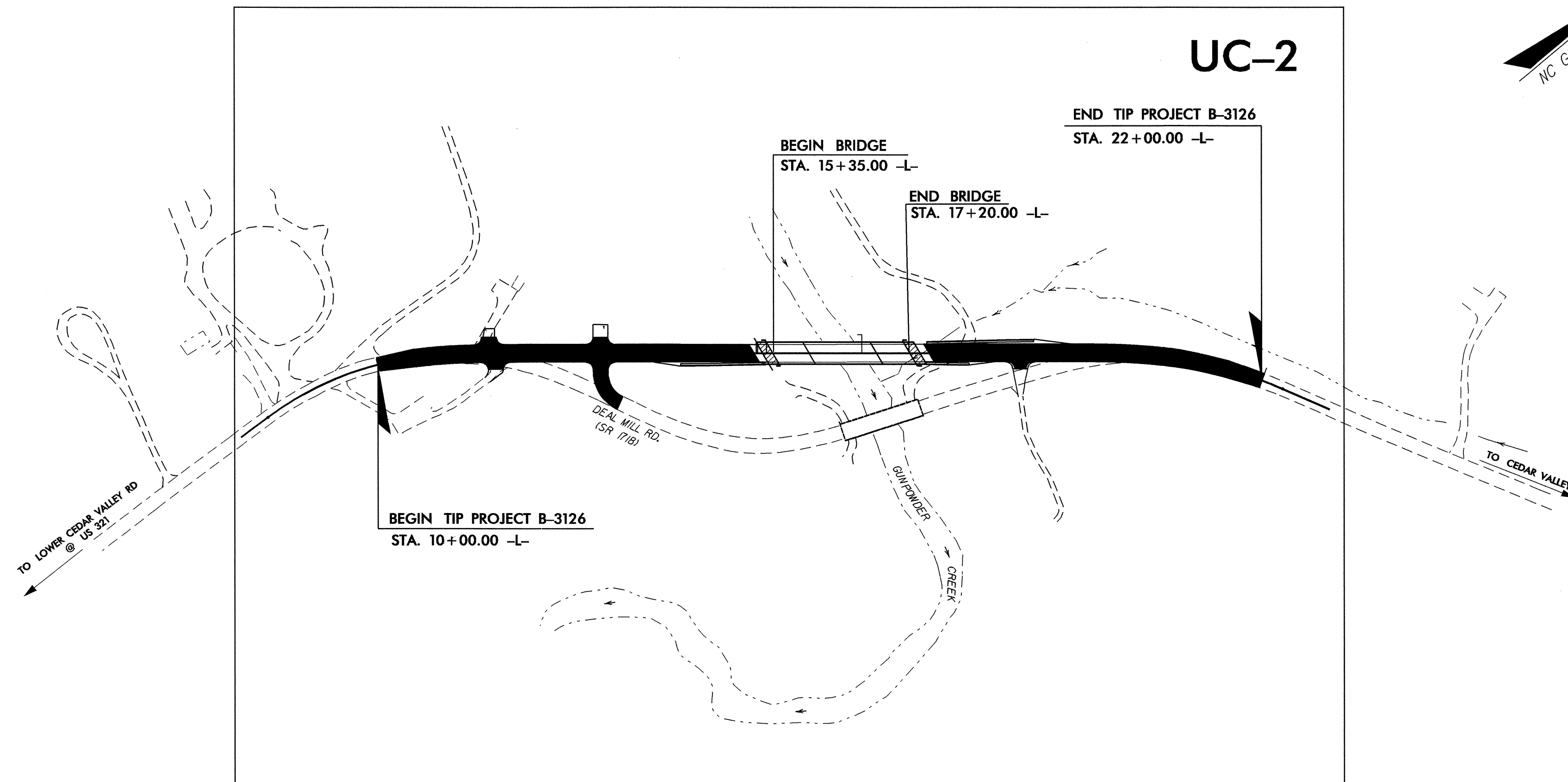
T.I.P. NO.	SHEET NO.
B-3126	UC-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

**UTILITY CONSTRUCTION PLANS
CALDWELL COUNTY**

LOCATION: BRIDGE #90 OVER GUNOWDER CREEK ON SR 1718

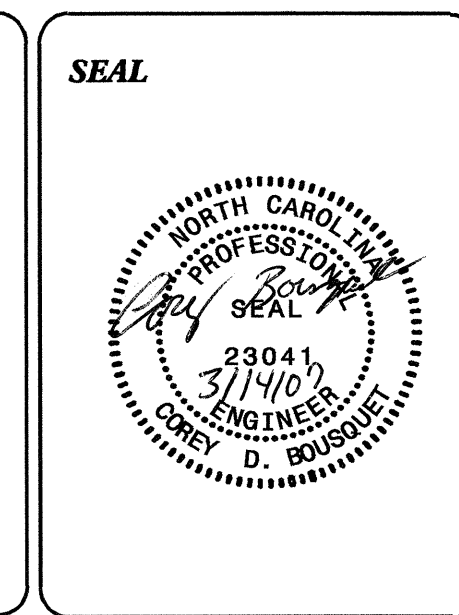
TYPE OF WORK: UTILITIES



INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
UC-1	TITLE SHEET
UC-2	UTILITY CONSTRUCTION PLAN SHEET
UC-3	PROFILE SHEET
UC-4 THRU UC-5	DETAILS SHEETS

WATER AND SEWER OWNERS ON PROJECT

(1) CALDWELL COUNTY WATER DISTRICT



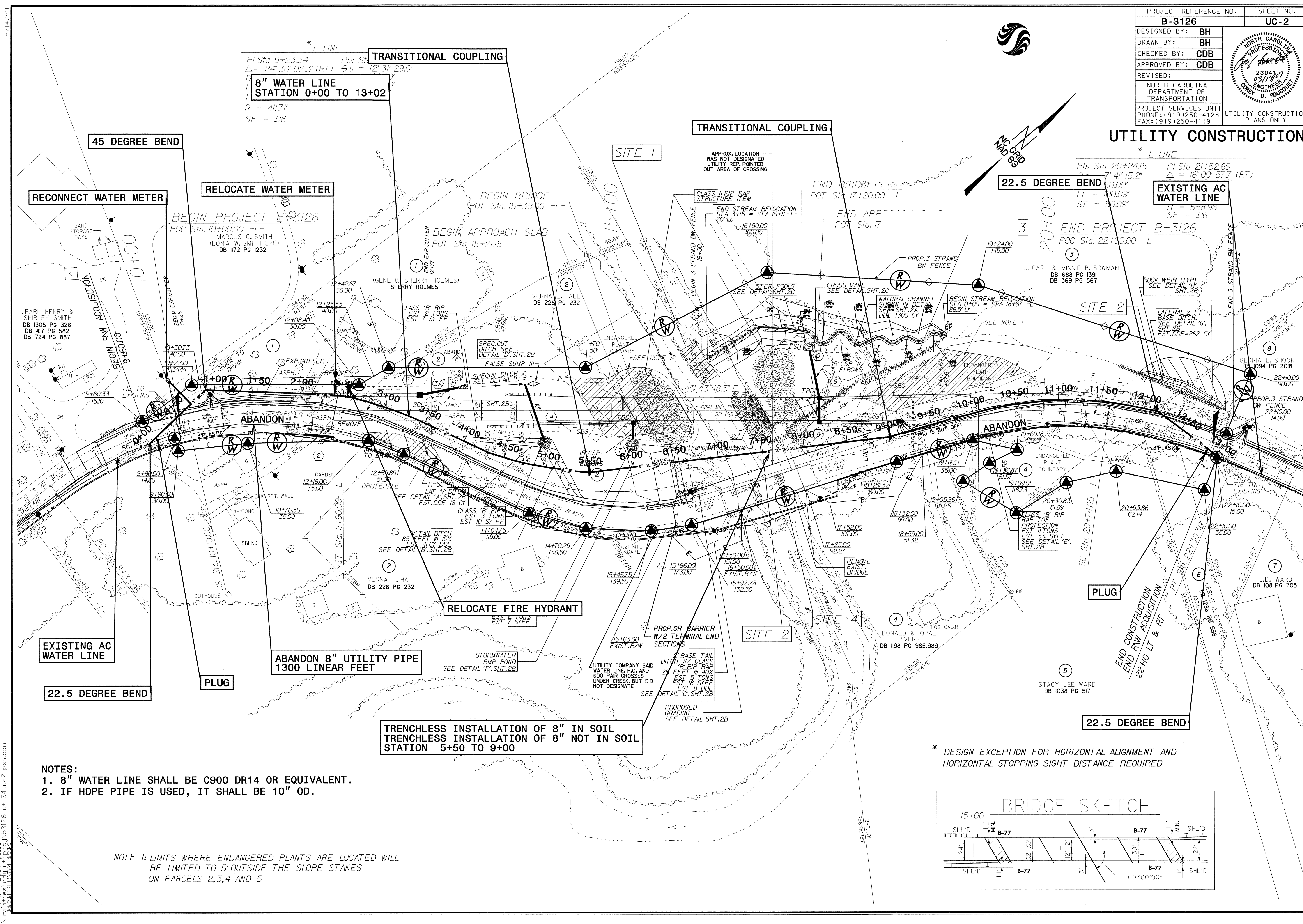
PREPARED IN THE OFFICE OF:
**DIVISION OF HIGHWAYS
PROJECT SERVICES
UTILITY SECTION**

1591 MAIL SERVICES CENTER
RALEIGH NC 27699-1591
PHONE (919) 250-4128
FAX (919) 250-4119

Roger Worthington, P.E. UTILITIES SECTION ENGINEER
Corey Bouquet, P.E. UTILITIES SQUAD LEADER PROJECT ENGINEER
Bo Hemphill UTILITIES PROJECT DESIGNER

13-MAP-2007 15x40
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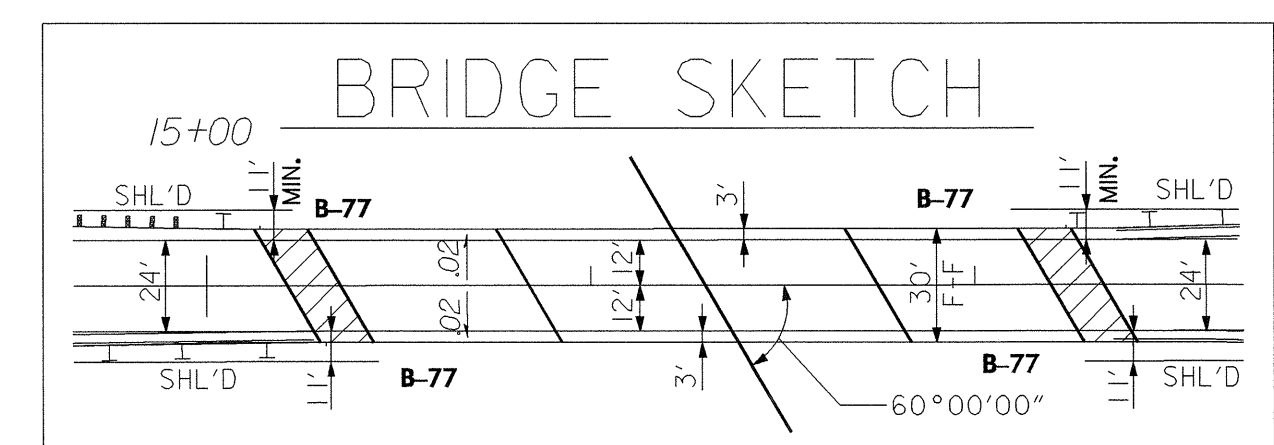
UTILITY CONSTRUCTION



- NOTES:**
1. 8" WATER LINE SHALL BE C900 DR14 OR EQUIVALENT.
 2. IF HDPE PIPE IS USED, IT SHALL BE 10" OD.

NOTE 1: LIMITS WHERE ENDANGERED PLANTS ARE LOCATED WILL BE LIMITED TO 5' OUTSIDE THE SLOPE STAKES ON PARCELS 2,3,4 AND 5

* DESIGN EXCEPTION FOR HORIZONTAL ALIGNMENT AND HORIZONTAL STOPPING SIGHT DISTANCE REQUIRED

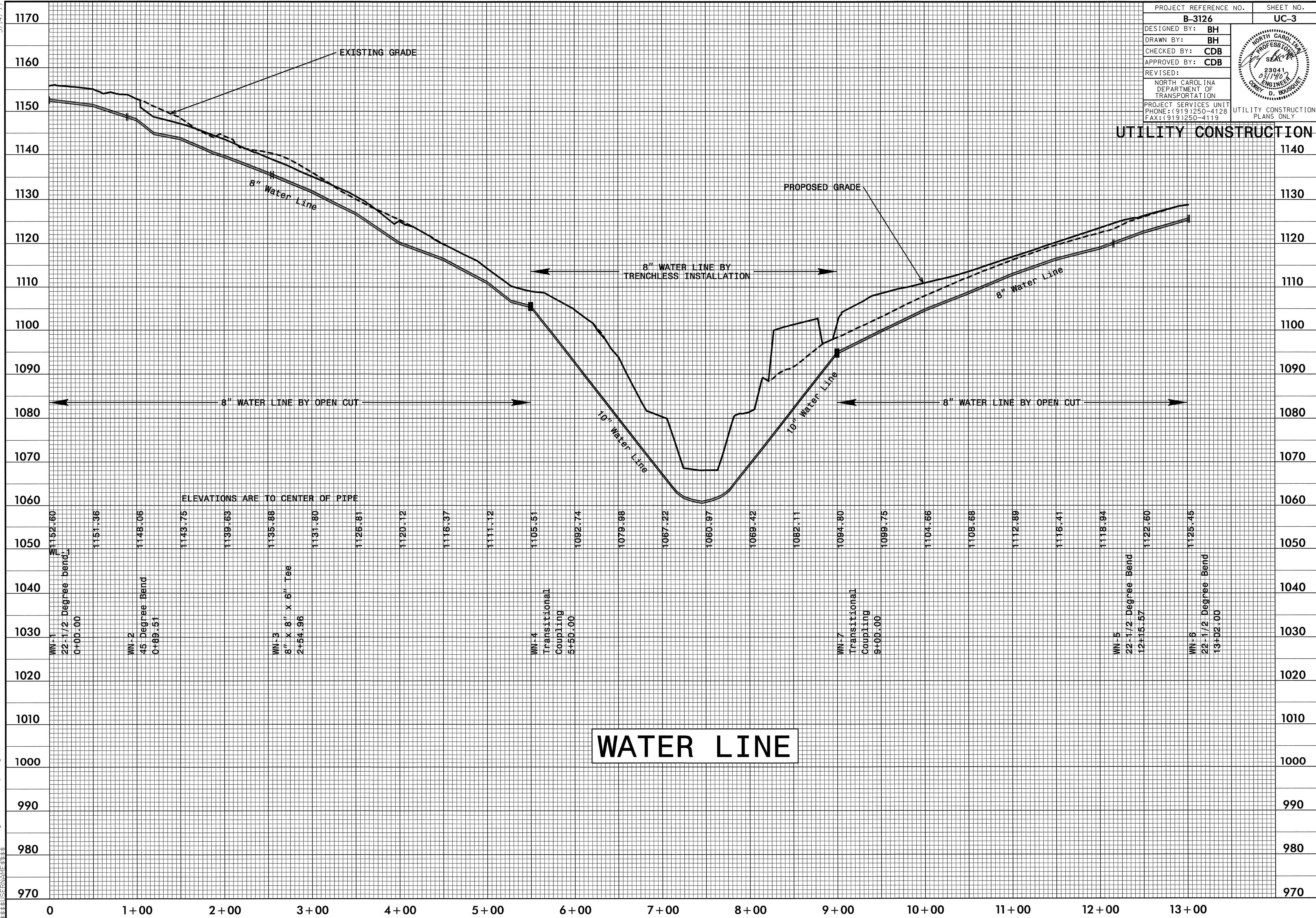


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 60.00'
 7.88'

5/14/99

PROJECT REFERENCE NO. B-3126	SHEET NO. UC-3
DESIGNED BY: BH	
DRAWN BY: BH	
CHECKED BY: CDB	
APPROVED BY: CDB	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION PROJECT SERVICES UNIT PHONE: (919)250-4128 FAX: (919)250-4119	
UTILITY CONSTRUCTION PLANS ONLY	

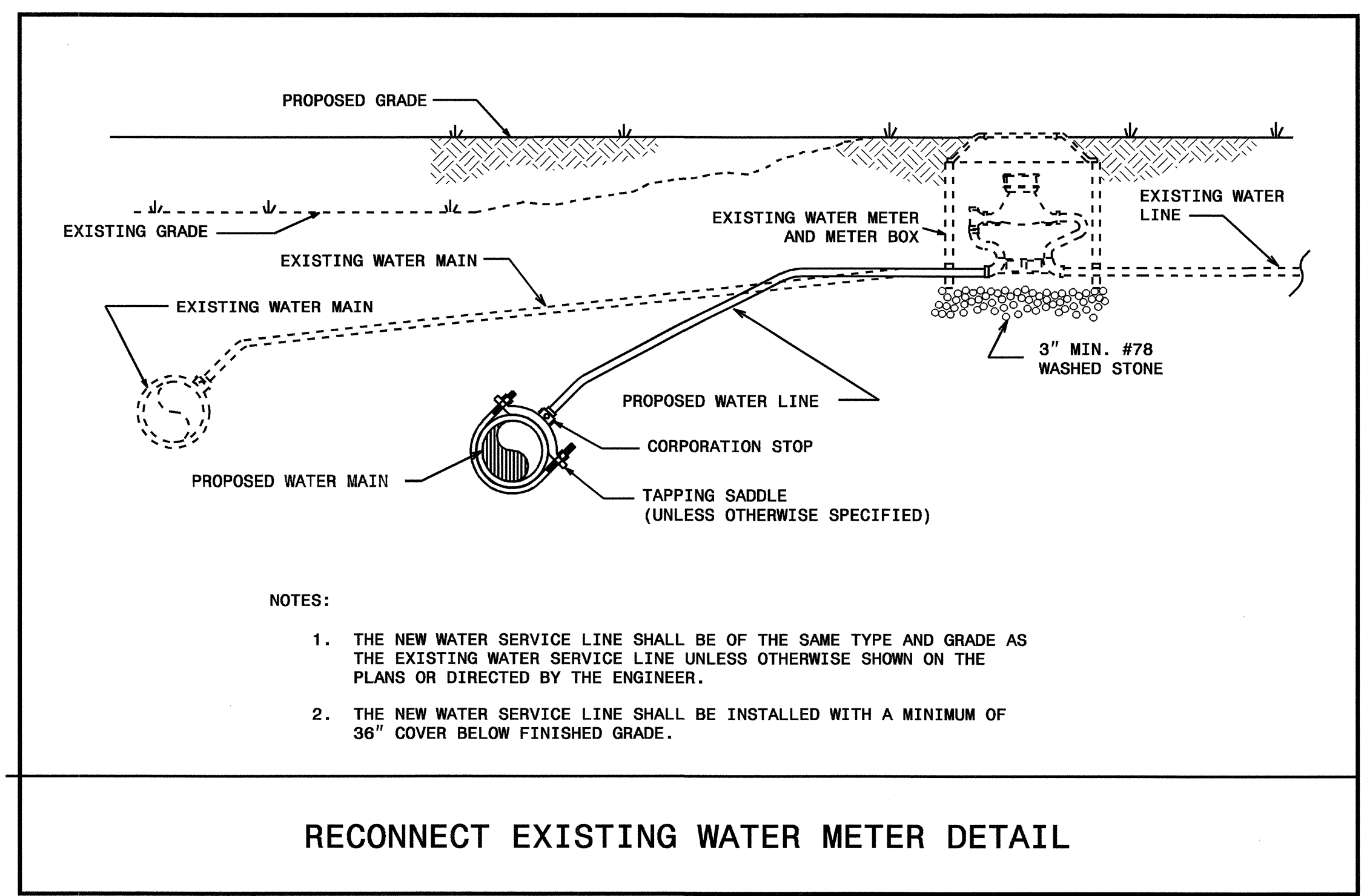
UTILITY CONSTRUCTION



WATER LINE

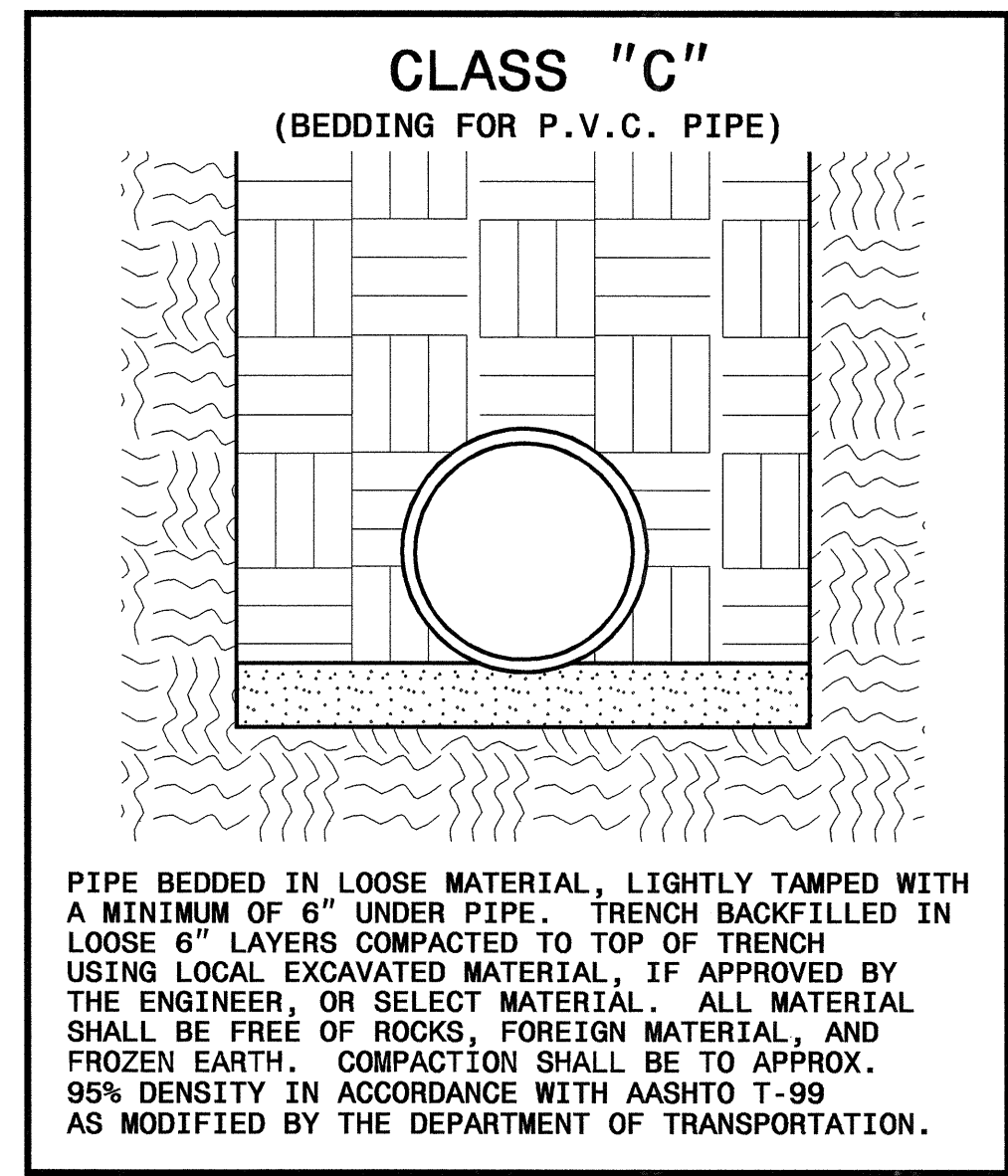
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UTILITY CONSTRUCTION

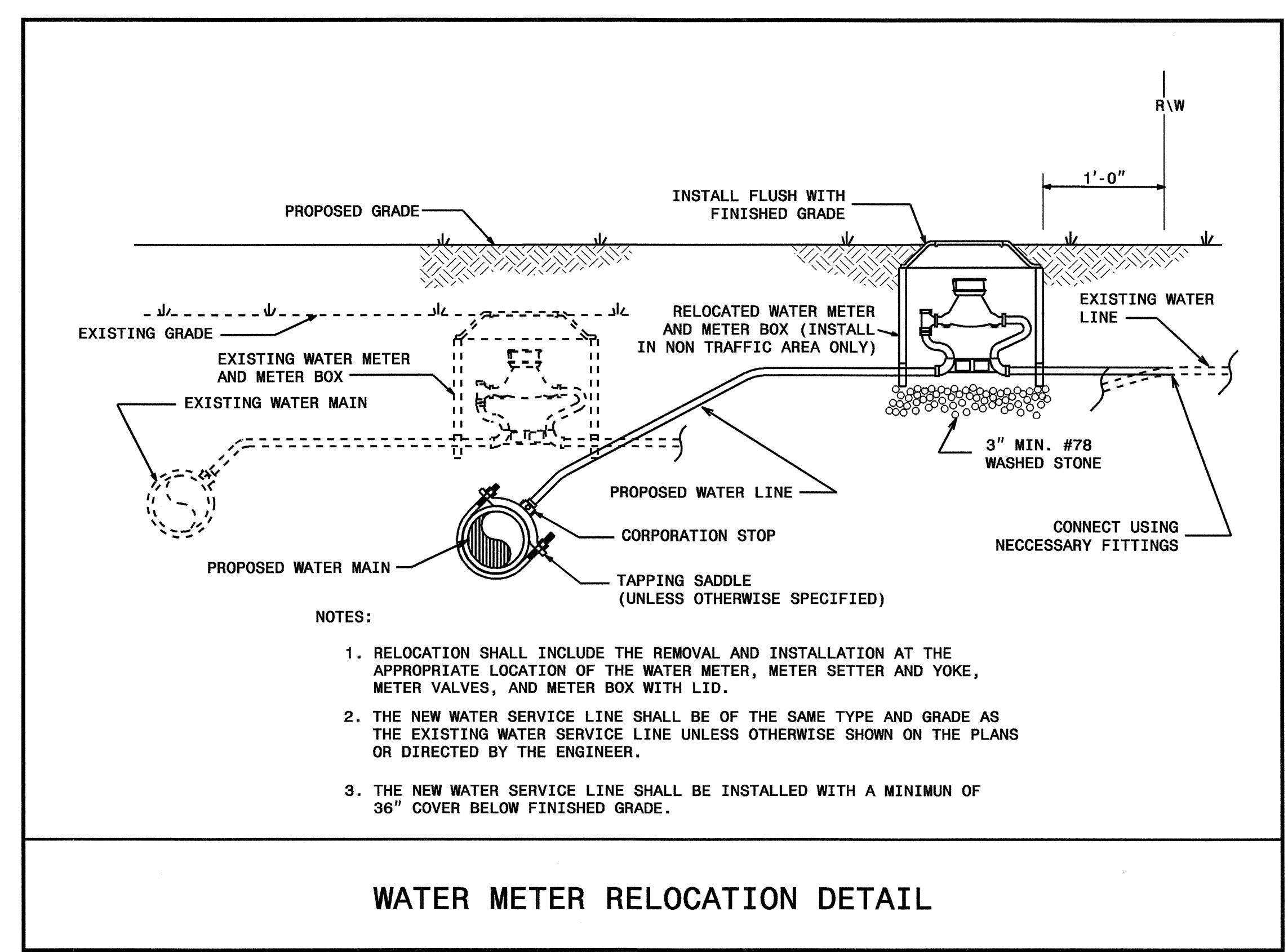


- NOTES:
1. THE NEW WATER SERVICE LINE SHALL BE OF THE SAME TYPE AND GRADE AS THE EXISTING WATER SERVICE LINE UNLESS OTHERWISE SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER.
 2. THE NEW WATER SERVICE LINE SHALL BE INSTALLED WITH A MINIMUM OF 36" COVER BELOW FINISHED GRADE.

RECONNECT EXISTING WATER METER DETAIL

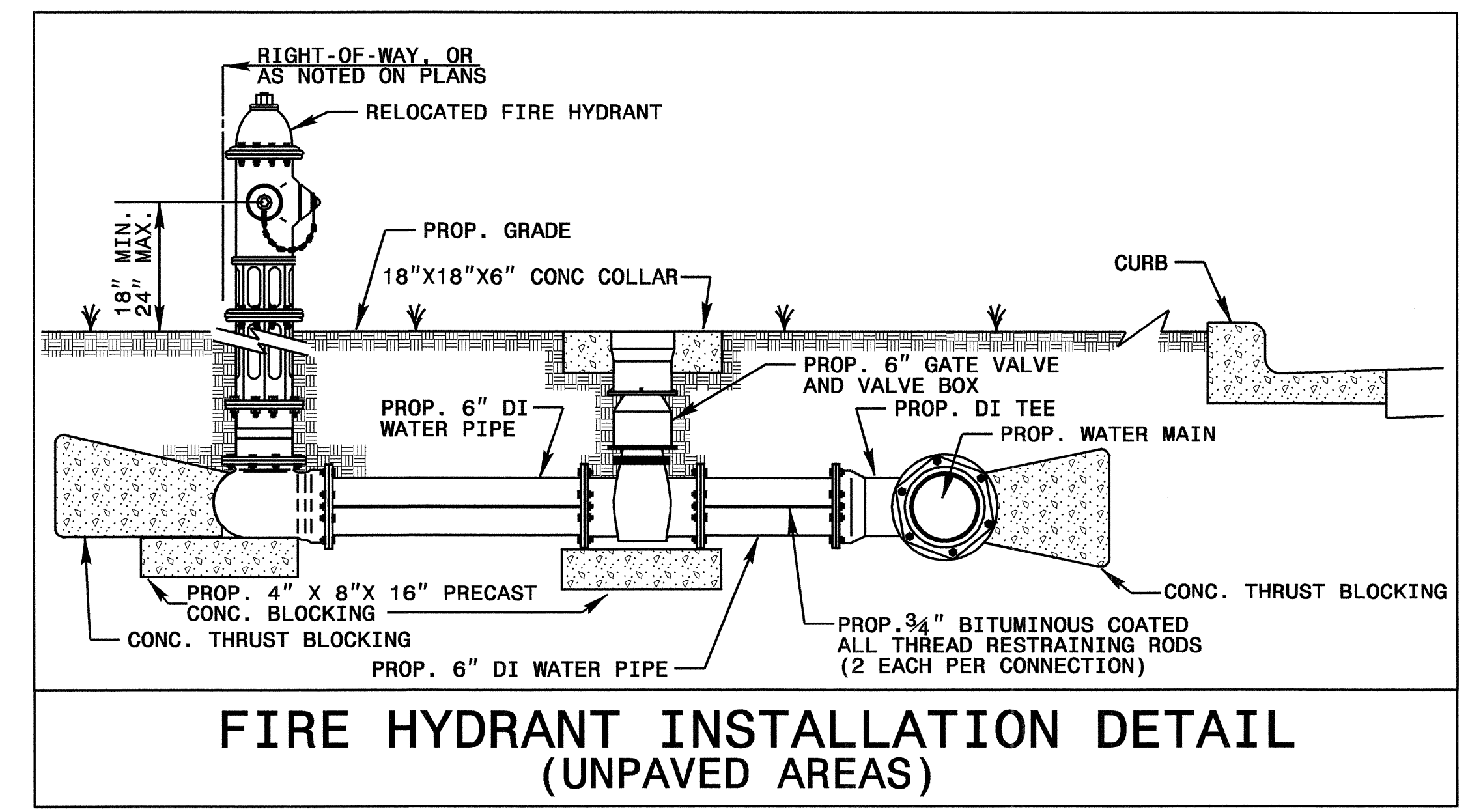


PIPE BEDDED IN LOOSE MATERIAL, LIGHTLY TAMPED WITH A MINIMUM OF 6" UNDER PIPE. TRENCH BACKFILLED IN LOOSE 6" LAYERS COMPACTED TO TOP OF TRENCH USING LOCAL EXCAVATED MATERIAL, IF APPROVED BY THE ENGINEER, OR SELECT MATERIAL. ALL MATERIAL SHALL BE FREE OF ROCKS, FOREIGN MATERIAL, AND FROZEN EARTH. COMPACTION SHALL BE TO APPROX. 95% DENSITY IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY THE DEPARTMENT OF TRANSPORTATION.



- NOTES:
1. RELOCATION SHALL INCLUDE THE REMOVAL AND INSTALLATION AT THE APPROPRIATE LOCATION OF THE WATER METER, METER SETTER AND YOKE, METER VALVES, AND METER BOX WITH LID.
 2. THE NEW WATER SERVICE LINE SHALL BE OF THE SAME TYPE AND GRADE AS THE EXISTING WATER SERVICE LINE UNLESS OTHERWISE SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER.
 3. THE NEW WATER SERVICE LINE SHALL BE INSTALLED WITH A MINIMUM OF 36" COVER BELOW FINISHED GRADE.

WATER METER RELOCATION DETAIL

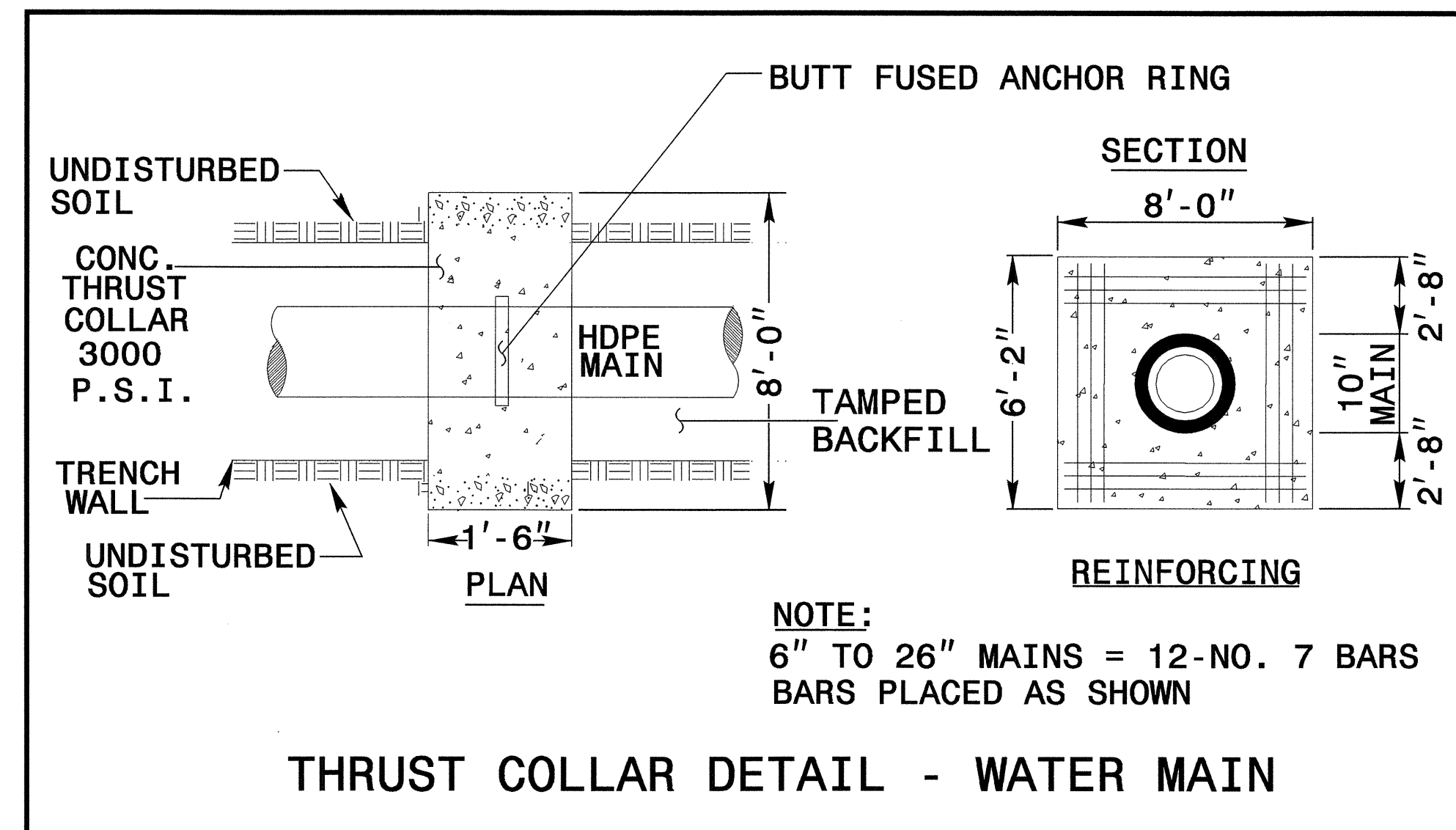


FIRE HYDRANT INSTALLATION DETAIL (UNPAVED AREAS)

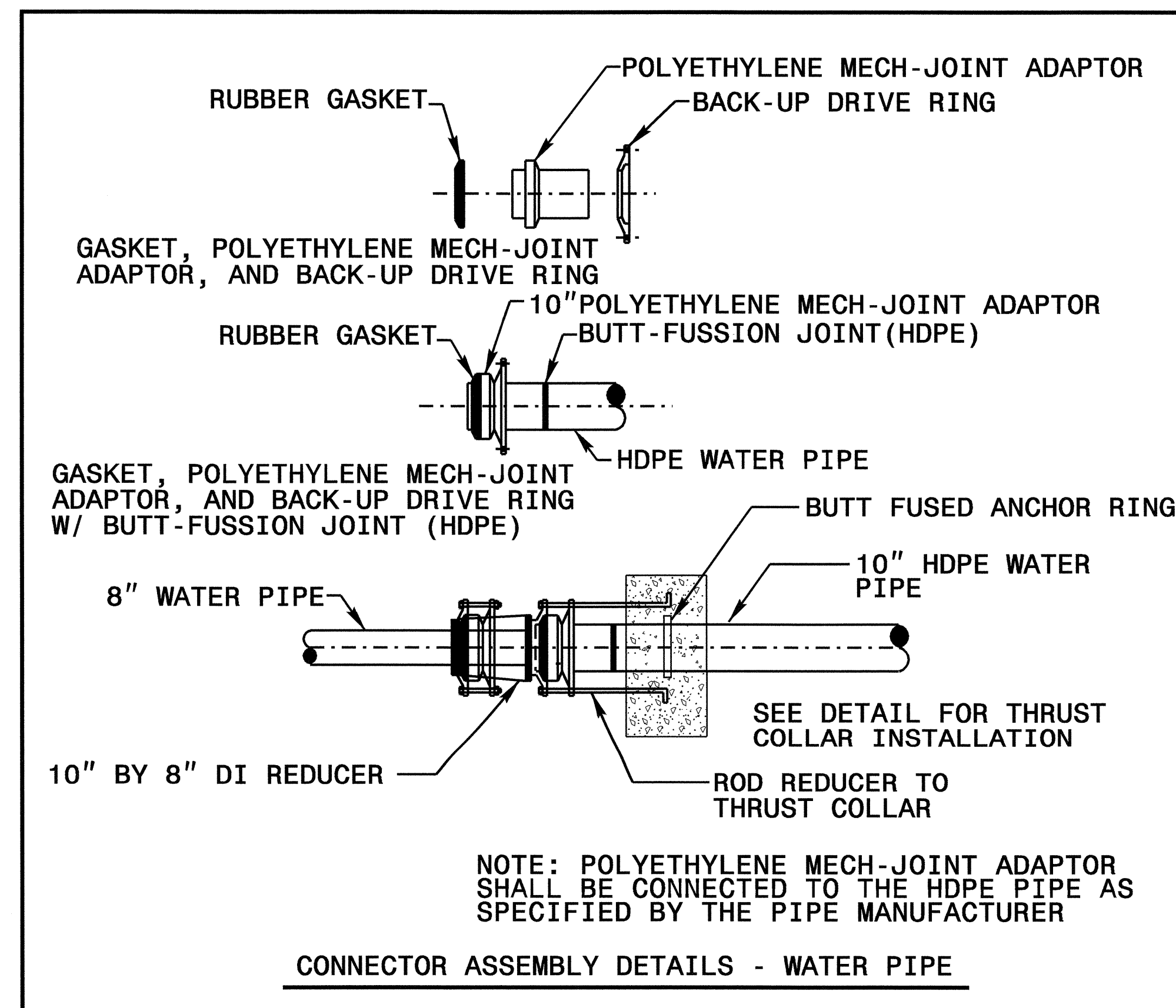
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PROJECT REFERENCE NO.	SHEET NO.
B-3126	UC-5
DESIGNED BY: BH	
DRAWN BY: BH	
CHECKED BY: CDB	
APPROVED BY: CDB	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION PROJECT SERVICES UNIT PHONE: (919) 250-4128 FAX: (919) 250-4119	
UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION



USE THESE DETAILS IF HDPE PIPE IS USED FOR TRENCHLESS INSTALLATION



09/08/99

TIP PROJECT: B-3126

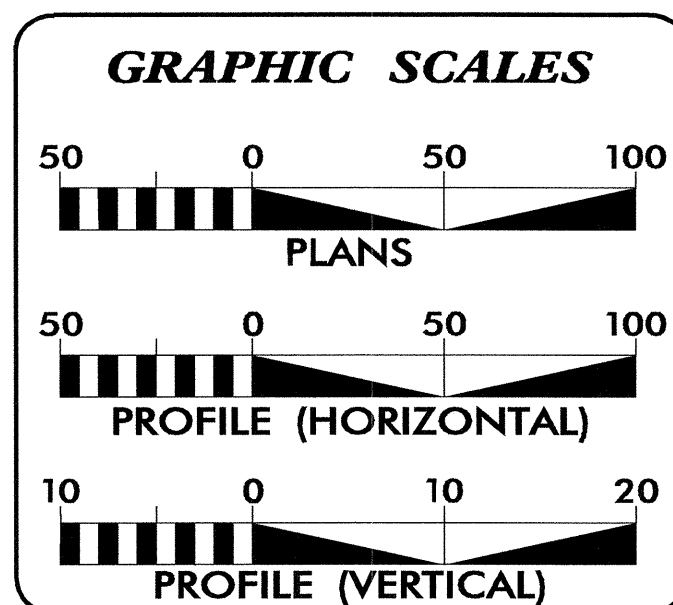
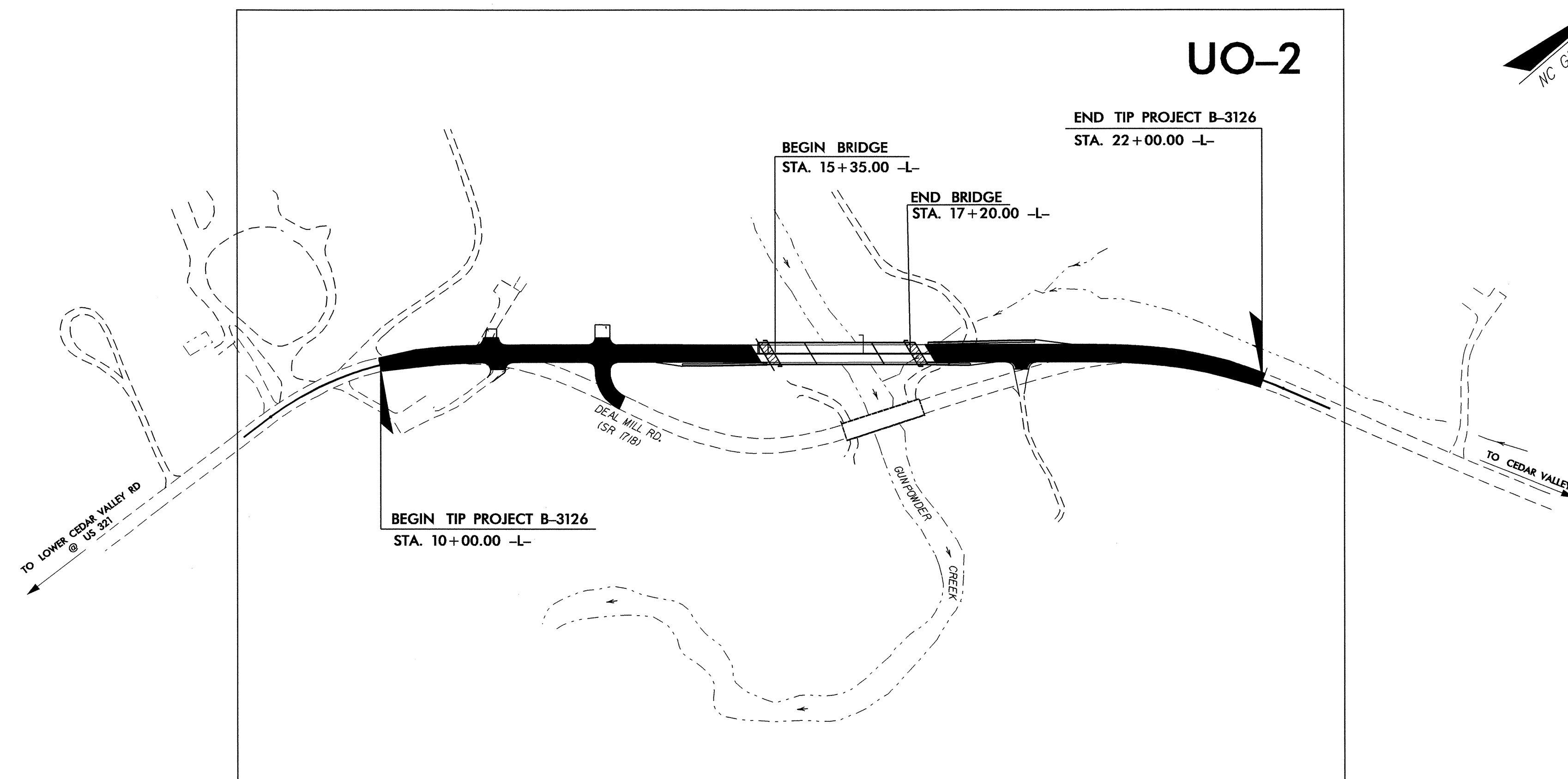
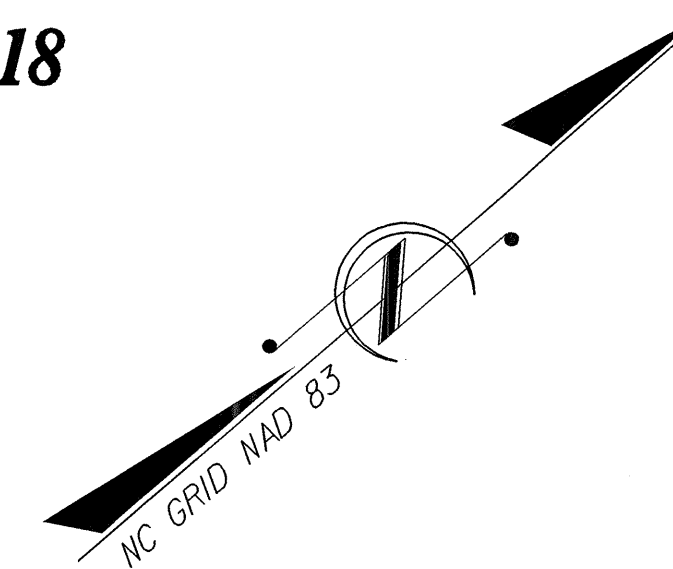
T.I.P. NO.	SHEET NO.
B-3126	UO-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

**UTILITY BY OTHERS PLANS
CALDWELL COUNTY**

LOCATION: BRIDGE # 90 OVER GUNPOWDER CREEK ON SR 1718

TYPE OF WORK: UTILITIES



INDEX OF SHEETS

SHEET NO.	DESCRIPTION
UO-1	TITLE SHEET
UO-2	UTILITY BY OTHERS PLAN SHEET

UTILITY OWNERS ON PROJECT

- (1) BLUE RIDGE EMC
- (2) SPRINT

PREPARED IN THE OFFICE OF:
**DIVISION OF HIGHWAYS
PROJECT SERVICES
UTILITY SECTION**

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PHONE (919) 250-4128
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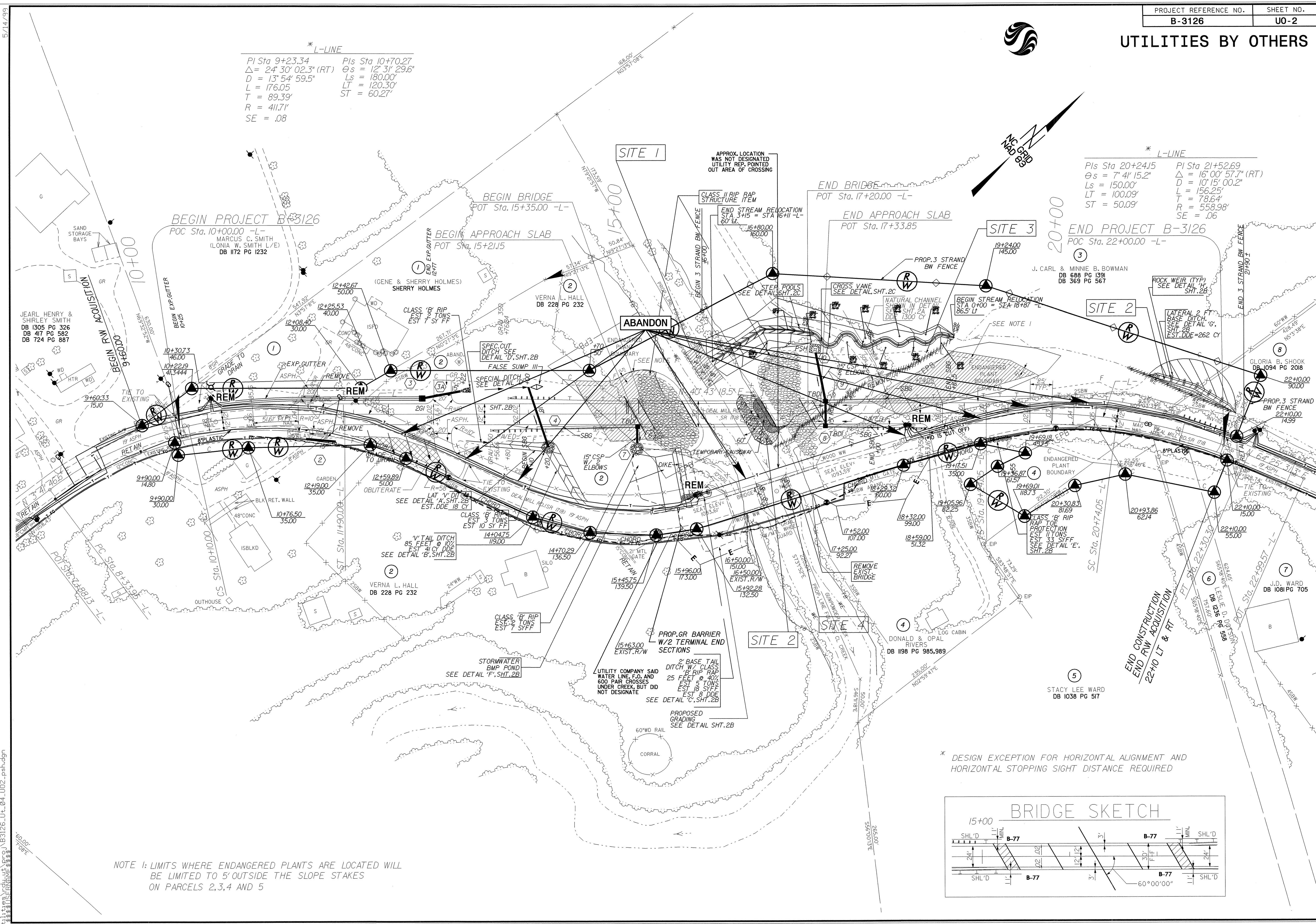
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\$\$\$\$\$USERNAME\$\$\$\$\$

UTILITIES BY OTHERS



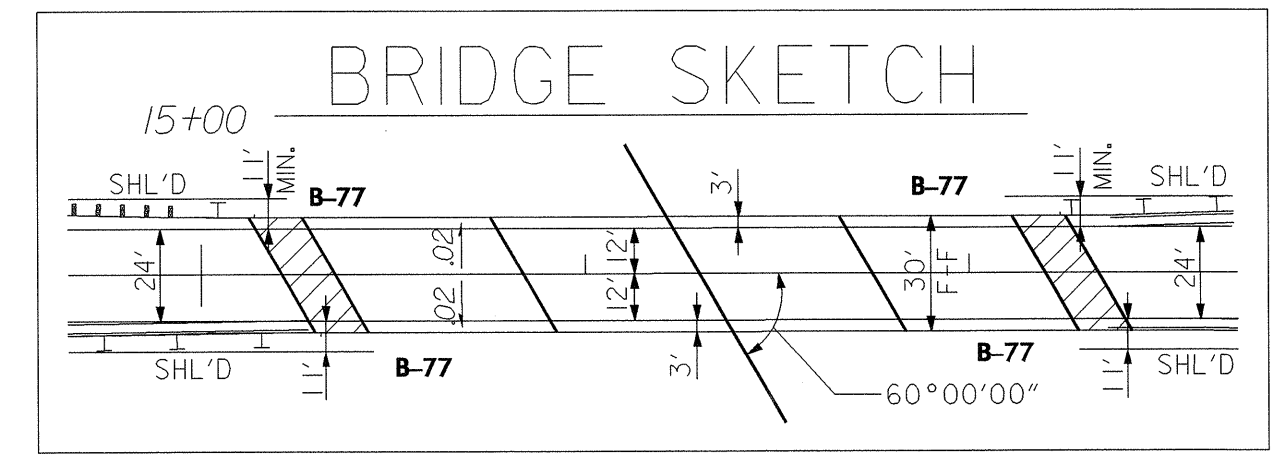
* L-LINE
 PI Sta 9+23.34 Pls Sta 10+70.27
 $\Delta s = 24' 30'' 02.3''$ (RT) $\Theta s = 12' 31'' 29.6''$
 $D = 13' 54'' 59.5''$ $Ls = 180.00'$
 $T = 176.05'$ $LT = 120.30'$
 $R = 89.39'$ $ST = 60.27'$
 $SE = .08$

* L-LINE
 Pls Sta 20+24.15 PI Sta 21+52.69
 $\Delta s = 7' 41'' 15.2''$ $\Delta = 16' 00'' 57.7''$ (RT)
 $Ls = 150.00'$ $D = 10' 15'' 00.2''$
 $LT = 100.09'$ $L = 156.25'$
 $R = 50.09'$ $T = 78.64'$
 $SE = 558.98'$
 $SE = .06$



NOTE 1: LIMITS WHERE ENDANGERED PLANTS ARE LOCATED WILL BE LIMITED TO 5' OUTSIDE THE SLOPE STAKES ON PARCELS 2,3,4 AND 5

* DESIGN EXCEPTION FOR HORIZONTAL ALIGNMENT AND HORIZONTAL STOPPING SIGHT DISTANCE REQUIRED



5/14/99

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