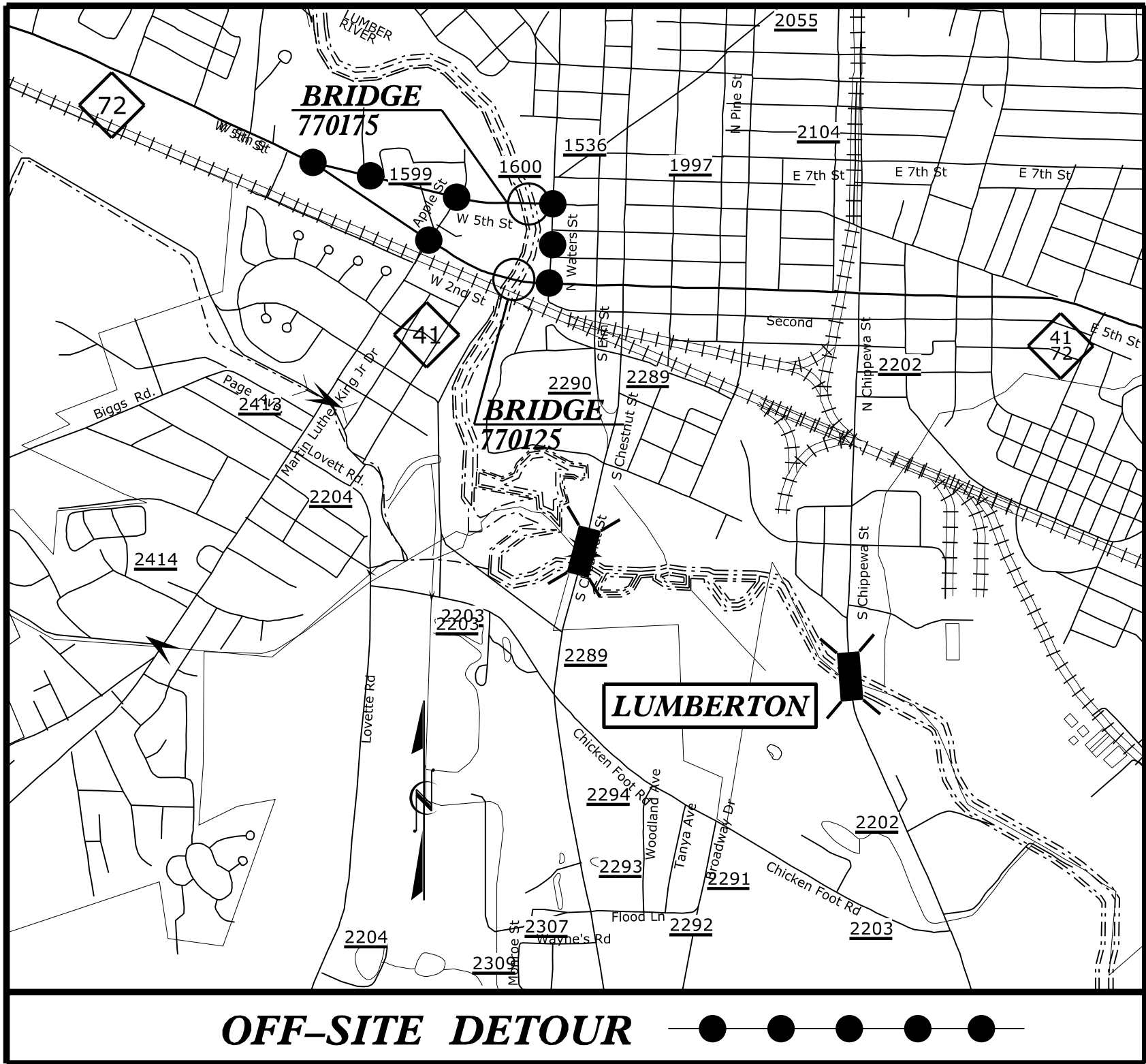


STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5985B	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

TIP PROJECT: B-5985B

See Sheet 1A For Index of Sheets
See Sheet 1B For Conventional Symbols



BRIDGE #770175

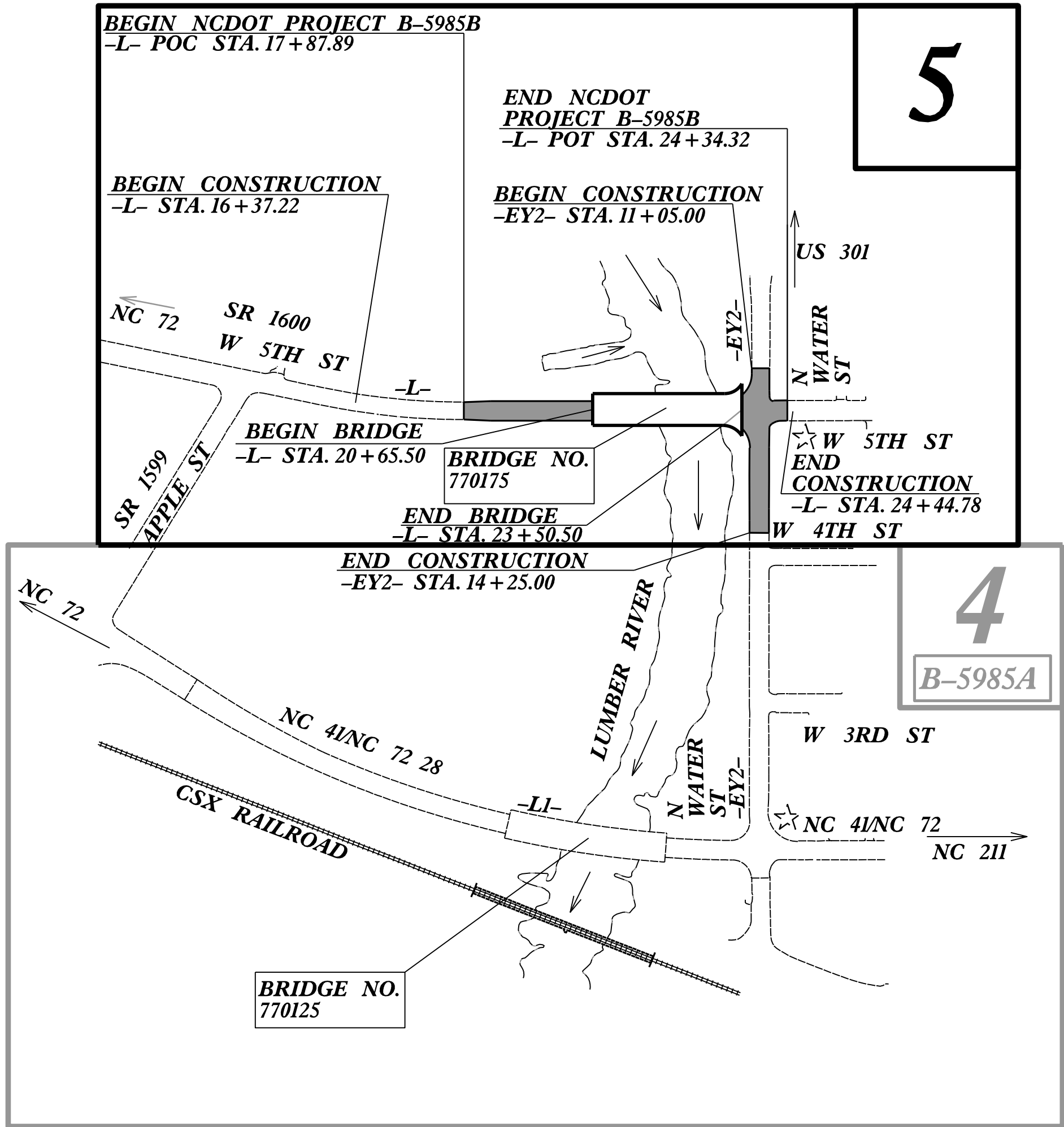
☆ - EXISTING SIGNAL

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

ROBESON COUNTY

LOCATION: BRIDGE NO. 770175 OVER LUMBER RIVER ON SR 1600
TYPE OF WORK: GRADING, DRAINAGE, SIGNALS, PAVING & STRUCTURES

NAD 83/
NA 2011



THIS PROJECT CONTAINS
EROSION CONTROL PLANS
FOR CLEARING AND
GRUBBING PHASE OF
CONSTRUCTION.

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.
THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARY OF LUMBERTON.

GRAPHIC SCALE



THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE
REGULATIONS SET FORTH BY THE NCG 010000 GENERAL STORMWATER
CONSTRUCTION PERMIT ISSUED BY THE NORTH CAROLINA
DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF ENERGY,
MINERAL, AND LAND RESOURCES



Prepared in the Office of:
WETHERILL ENGINEERING
1223 JONES FRANKLIN RD
RALEIGH NC 27606

Designed by:
HARMINDER SINGH 3519
NAME LEVEL III CERTIFICATION NO.

Roadway Standard Drawings

The "Roadway Standard Drawings"- Roadway Design Unit - N. C.
Department of Transportation - Raleigh, N. C., dated January 2024
and the latest revision thereto are applicable to this project and by
reference hereby are considered a part of these plans.

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
B-5985B	EC-02
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

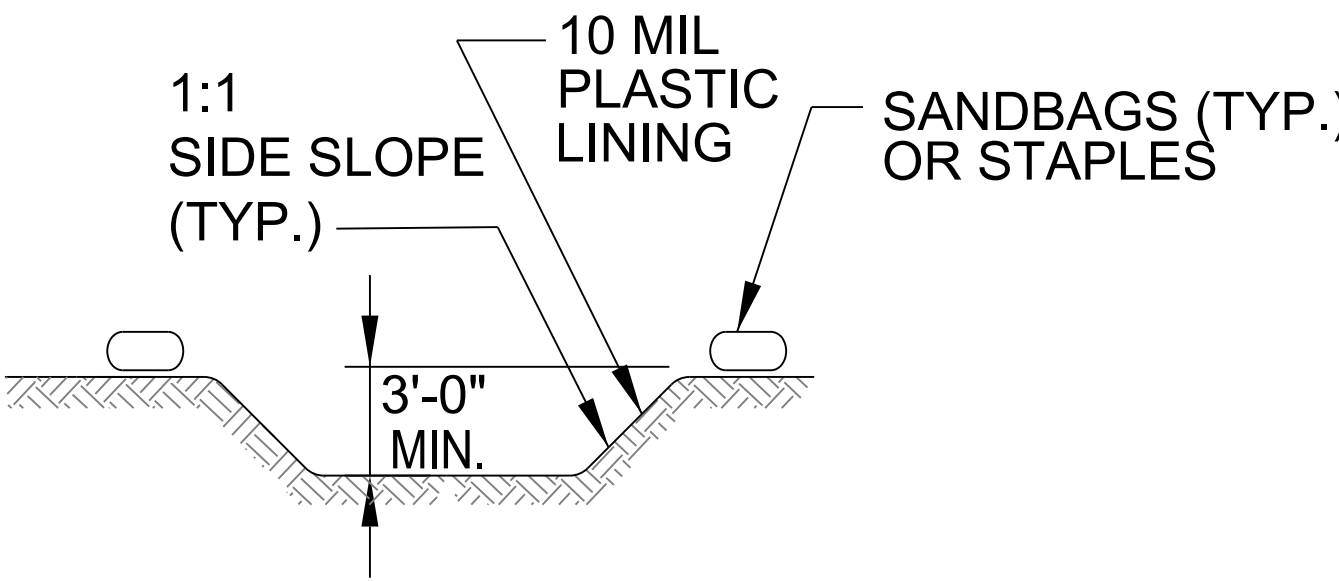
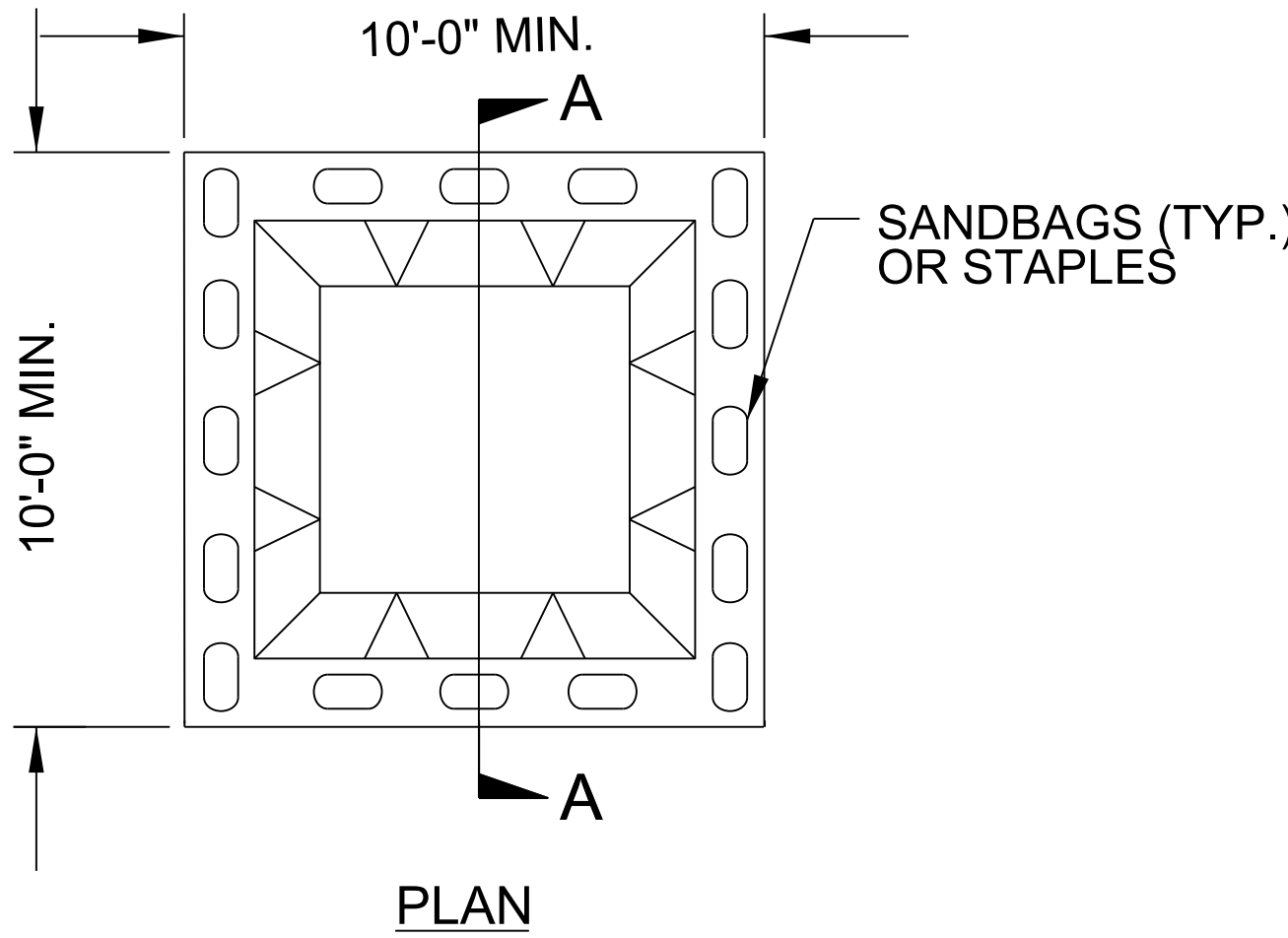
EROSION & SEDIMENT CONTROL LEGEND

Std. #	Description	Symbol
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	
1630.02	Silt Basin Type B	
1630.03	Temporary Silt Ditch	
1630.04	Stilling Basin	
1630.05	Temporary Diversion	
1630.06	Special Stilling Basin	
1630.07	Skimmer Basin	
1630.08	Tiered Skimmer Basin	
1630.09	Earthen Dam with Skimmer	
	Infiltration Basin	
	Rock Inlet Sediment Trap:	
1632.01	Type A	
1632.02	Type B	
1632.03	Type C	

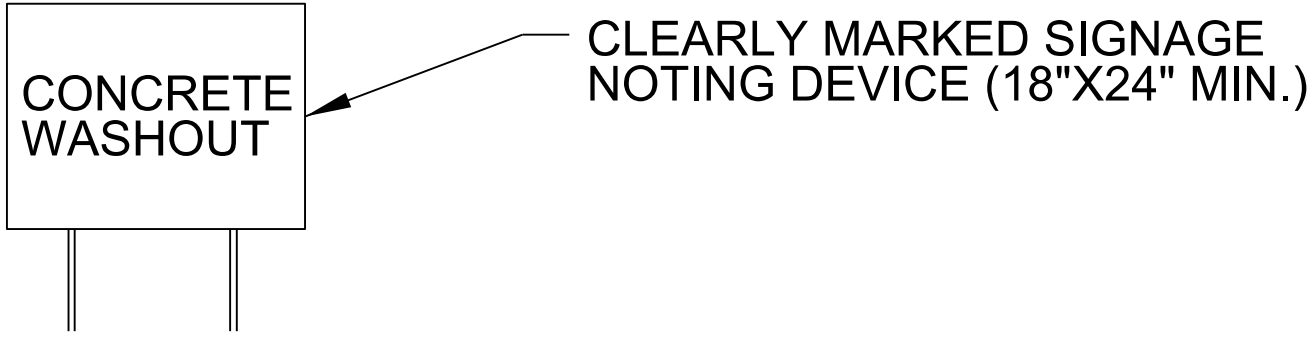
Std. #	Description	Symbol
1633.01	Temporary Rock Silt Check Type A	
1633.02	Temporary Rock Silt Check Type B	
1633.03	Temporary Rock Silt Check Type A with Excelsior Matting and Flocculant	
1634.01	Temporary Rock Sediment Dam Type A	
1634.02	Temporary Rock Sediment Dam Type B	
1635.01	Rock Pipe Inlet Sediment Trap Type A	
1635.02	Rock Pipe Inlet Sediment Trap Type B	
1636.01	Excelsior Wattle Check	
1636.01	Excelsior Wattle Check with Flocculant	
1636.01	Coir Fiber Wattle Check	
1636.01	Coir Fiber Wattle Check with Flocculant	
1636.02	Silt Fence Excelsior Wattle Break	
	Silt Fence Coir Fiber Wattle Break	
1636.03	Excelsior Wattle Barrier	
1636.03	Coir Fiber Wattle Barrier	

PROJECT REFERENCE NO.	SHEET NO.
B-5985B	EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER

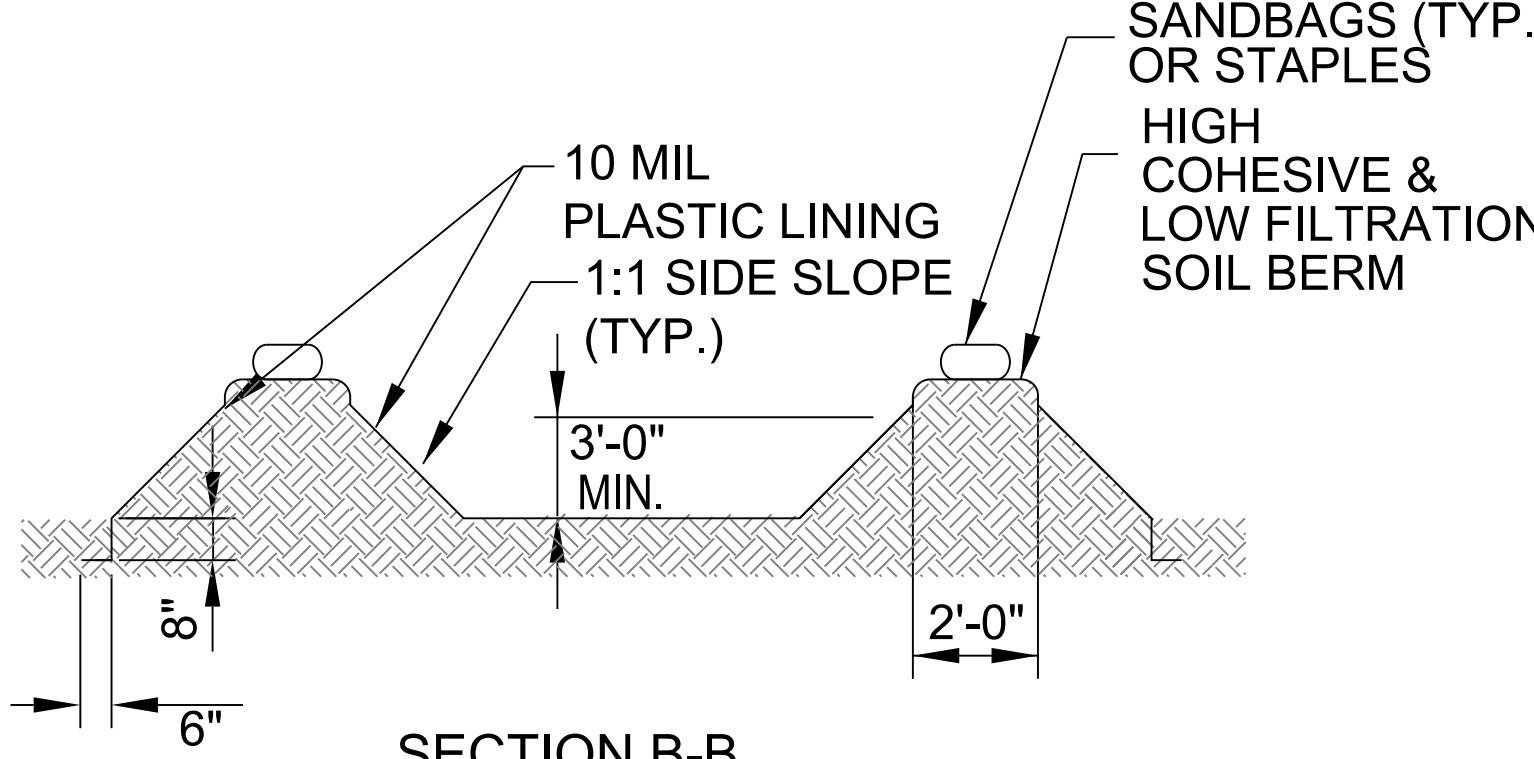
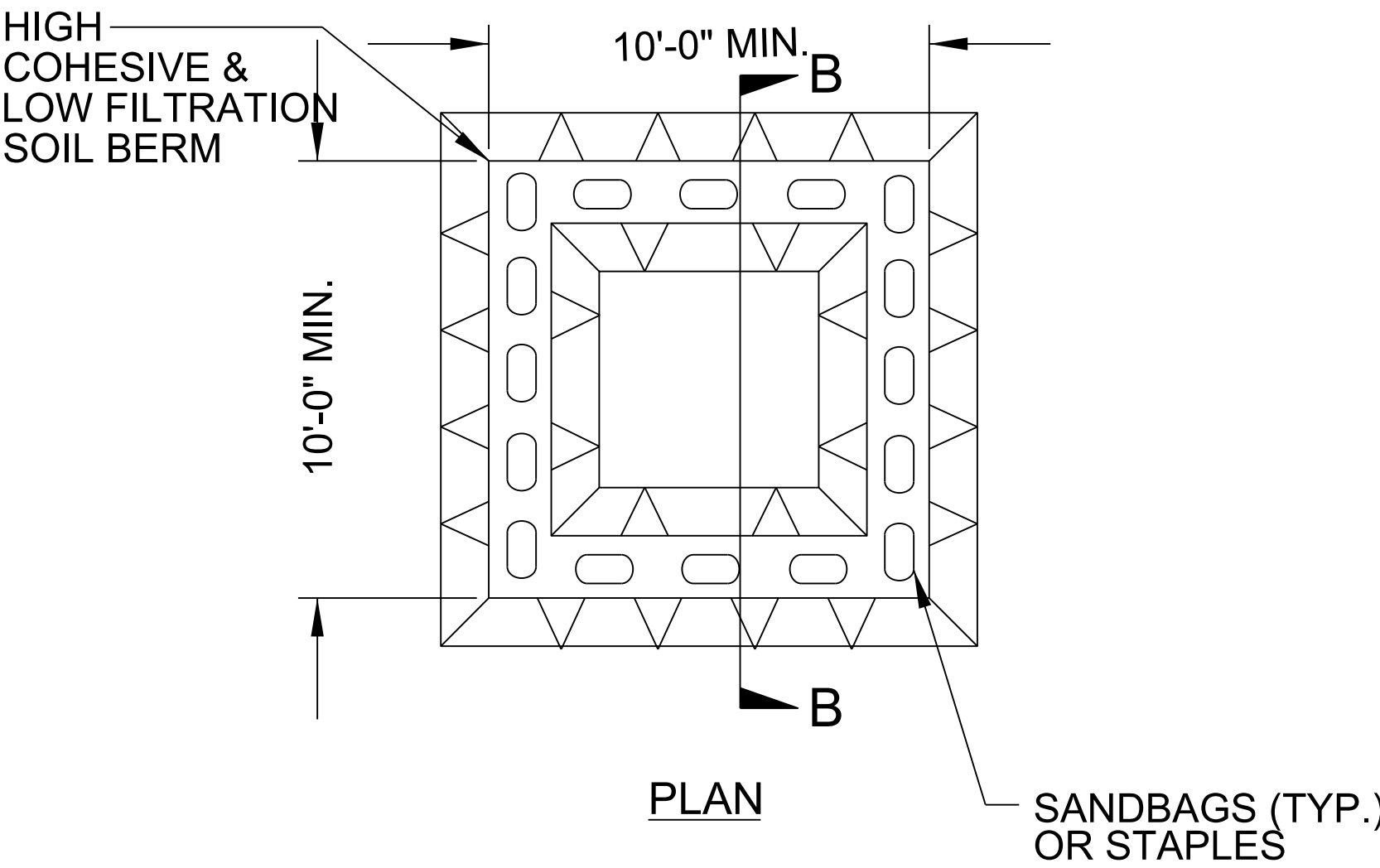


SECTION A-A

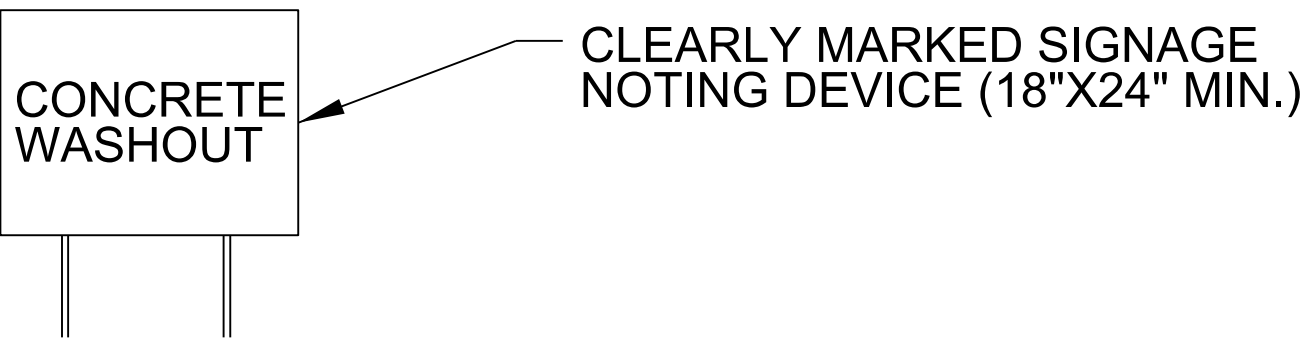


BELOW GRADE WASHOUT STRUCTURE
NOT TO SCALE

- NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
 2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
 3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.



SECTION B-B



ABOVE GRADE WASHOUT STRUCTURE
NOT TO SCALE

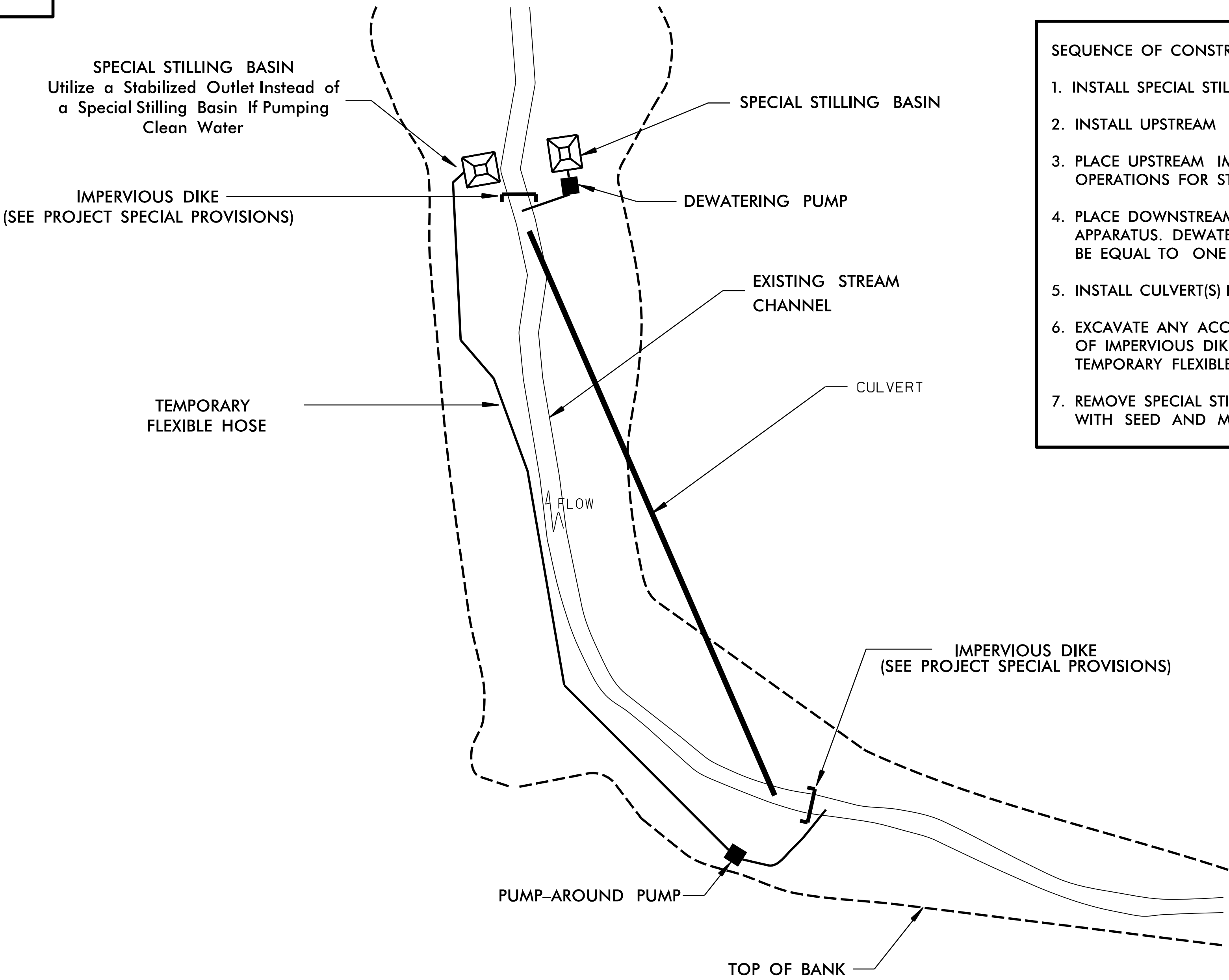
- NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
 2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
 3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

EXAMPLE OF PUMP-AROUND OPERATION

PROJECT REFERENCE NO.	SHEET NO.
B-5985B	EC-2B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NOTES:

- 1) All excavation shall be performed in only dry or isolated areas of the work zone.
- 2) Impervious dikes are to be used to isolate work from stream flow when necessary.
- 3) Maintenance of stream flow operations shall be incidental to the work. This includes polyethylene sheeting, diversion pipes, pumps and hoses.
- 4) Pumps and hoses shall be of sufficient size and quantity to dewater the work area and maintain stream bypass flow.



SEQUENCE OF CONSTRUCTION FOR TYPICAL WORK AREA

- 1. INSTALL SPECIAL STILLING BASIN(S).
- 2. INSTALL UPSTREAM PUMP AND TEMPORARY FLEXIBLE HOSE.
- 3. PLACE UPSTREAM IMPERVIOUS DIKE AND BEGIN PUMPING OPERATIONS FOR STREAM DIVERSION.
- 4. PLACE DOWNSTREAM IMPERVIOUS DIKE AND PUMPING APPARATUS. DEWATER ENTRAPPED AREA. AREA TO BE DEWATERED SHALL BE EQUAL TO ONE DAY'S WORK.
- 5. INSTALL CULVERT(S) IN ACCORDANCE WITH THE PLANS.
- 6. EXCAVATE ANY ACCUMULATED SILT AND DEWATER BEFORE REMOVAL OF IMPERVIOUS DIKES. REMOVE IMPERVIOUS DIKES, PUMPS, AND TEMPORARY FLEXIBLE HOSE. (DOWNSTREAM IMPERVIOUS DIKES FIRST).
- 7. REMOVE SPECIAL STILLING BASIN(S) AND BACKFILL. STABILIZE DISTURBED AREA WITH SEED AND MULCH.

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
B-5985B	EC-3
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SOIL STABILIZATION TIMEFRAMES

SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 TO 4:1	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH WITH SLOPES STEEPER THAN 4:1. 7 DAYS FOR PERIMETER DIKES, SWALES, DITCHES PERIMETER SLOPES, AND HQW ZONES
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	7 DAYS FOR PERIMETER DIKES, SWALES, DITCHES PERIMETER SLOPES, AND HQW ZONES

8/17/99

UTILIZE SPECIAL STILLING BASIN WHERE APPLICABLE.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 5

NOTE: UTILIZE FABRIC INSERT INLET PROTECTION DEVICE AS
DIRECTED BY ENGINEER IN LIEU OF ROCK INLET SEDEMENT
TRAP TYPE C TO PREVENT IMPOUNDING RUNOFF ON
ROADWAYS OPEN TO THE PUBLIC.

-L-
PI Sta 17+10.16
 $\Delta = 11' 32' 05.1" (LT)$
 $D = 4' 30' 00.0"$
 $L = 256.33'$
 $T = 128.60'$
 $R = 1273.24'$
 $SE = 1025' NC$
 $RO = SEE PLANS$
 $DS = 40MPH$

NOTE: ROW/STA. OFFSETS
ARE TO THE -L- ALIGNMENT



1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

☆ - EXISTING SIGNAL

SEE SHEET 6 FOR -L- PROFILE
SEE SHEET 7 FOR -EY2- PROFILE

SEE SHEETS S-1 THRU S-??
FOR STRUCTURE PLANS

PROJECT REFERENCE NO.

B-5985

SHEET NO.

EC-04/CONST.05

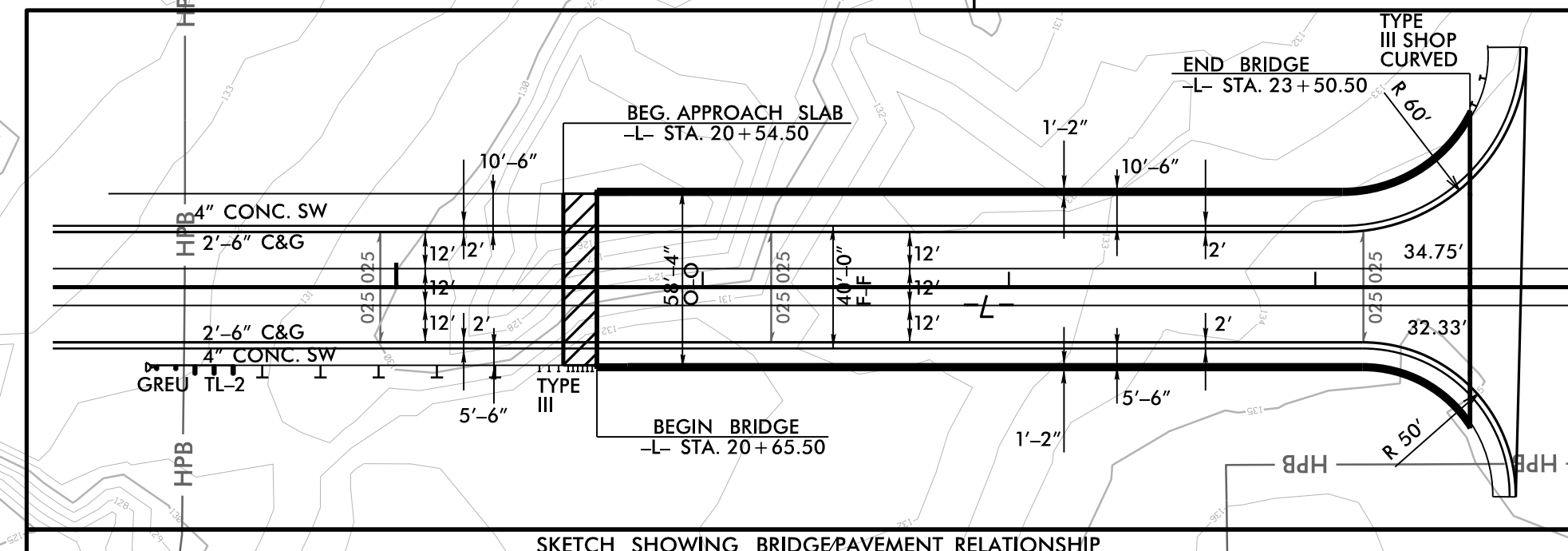
R/W SHEET NO.

ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER

BEGIN NCDOT PROJECT B-5985B
-L- POC STA. 17+87.89

END NCDOT PROJECT B-5985B
-L- POT STA. 24+34.32

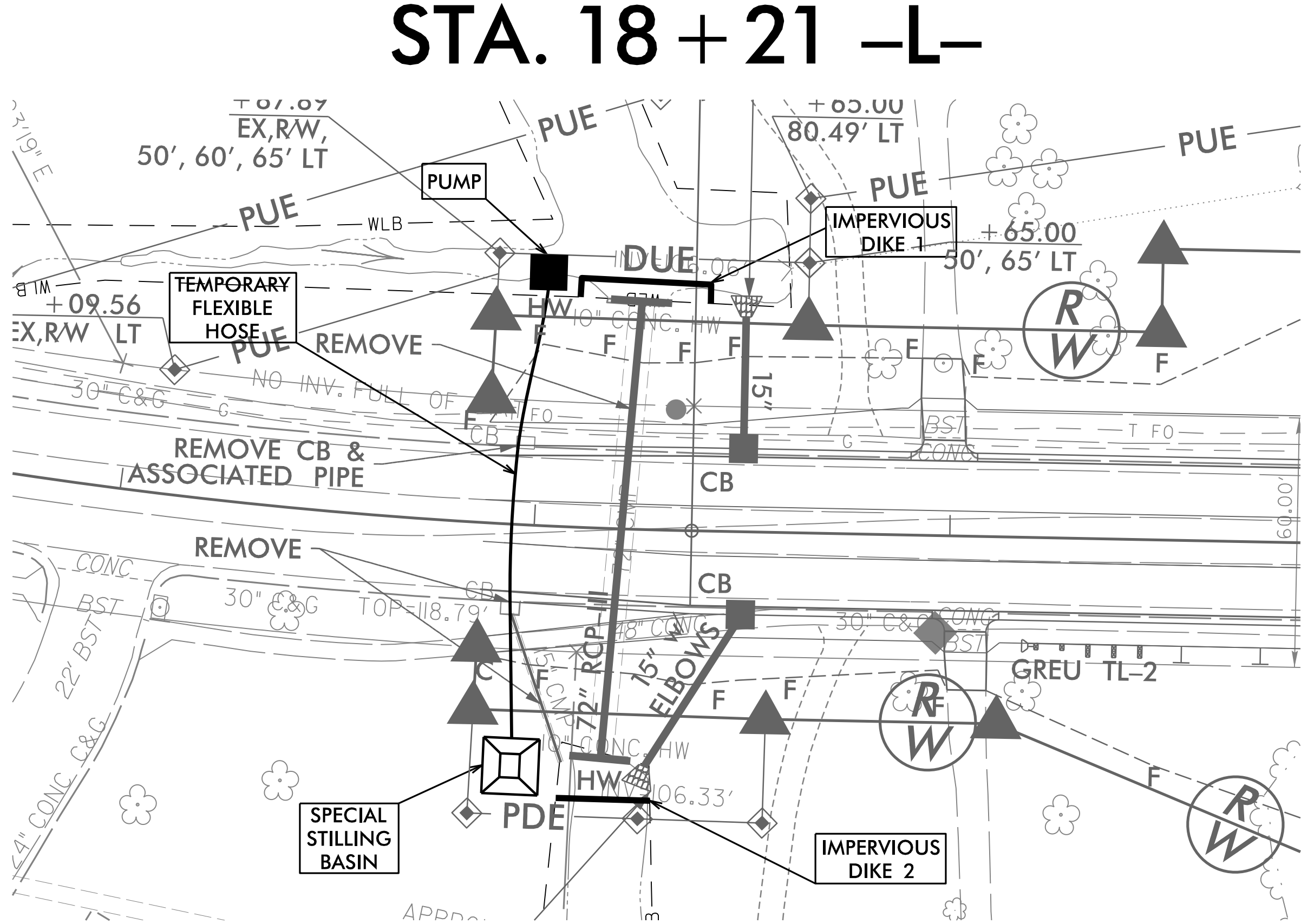


MATCHLINE SHEET 4 -EY2- STA. 15+00.00

CULVERT CONSTRUCTION SEQUENCE

PROJECT REFERENCE NO.	SHEET NO.
B-5985B	EC-05/CONST.05
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

1. INSTALL EROSION CONTROL C&G PHASE MEASURES FOR THIS SITE PRIOR TO COMMENCING CULVERTWORK (NOT SHOWN FOR CLARITY).
2. INSTALL SPECIAL STILLING BASIN FOR PUMPED EFFLUENT.
3. CLOSE CONSTRUCTION AREA TO TRAFFIC, REROUTE TO OFF-SITE DETOUR.
4. CONSTRUCT IMPERVIOUS DIKES 1-2 AND INSTALL TEMPORARY FLEXIBLE HOSE AND PUMP.
5. CONSTRUCT THE PROPOSED CONCRETE PIPE CULVERT. CONSTRUCT THE PROPOSED INLET AND OUTLET CHANNELS.
6. REMOVE ALL IMPERVIOUS DIKES AND DIVERT FLOW IN TO THE NEWLY CONSTRUCTED CONCRETE PIPE CULVERT.
7. REMOVE TEMPORARY FLEXIBLE HOSE AND SPECIAL STILLING BASIN FOR PUMPED EFFLUENT.
8. FINALIZE CONSTRUCTION OF -L- ALIGNMENT.



8/17/99



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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.	SHEET NO.
B-5985	EC-06/CONST.05
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NOTE: UTILIZE FABRIC INSERT INLET PROTECTION DEVICE AS DIRECTED BY ENGINEER IN LIEU OF ROCK INLET SEDIEMENT TRAP TYPE C TO PREVENT IMPOUNDING RUNOFF ON ROADWAYS OPEN TO THE PUBLIC.

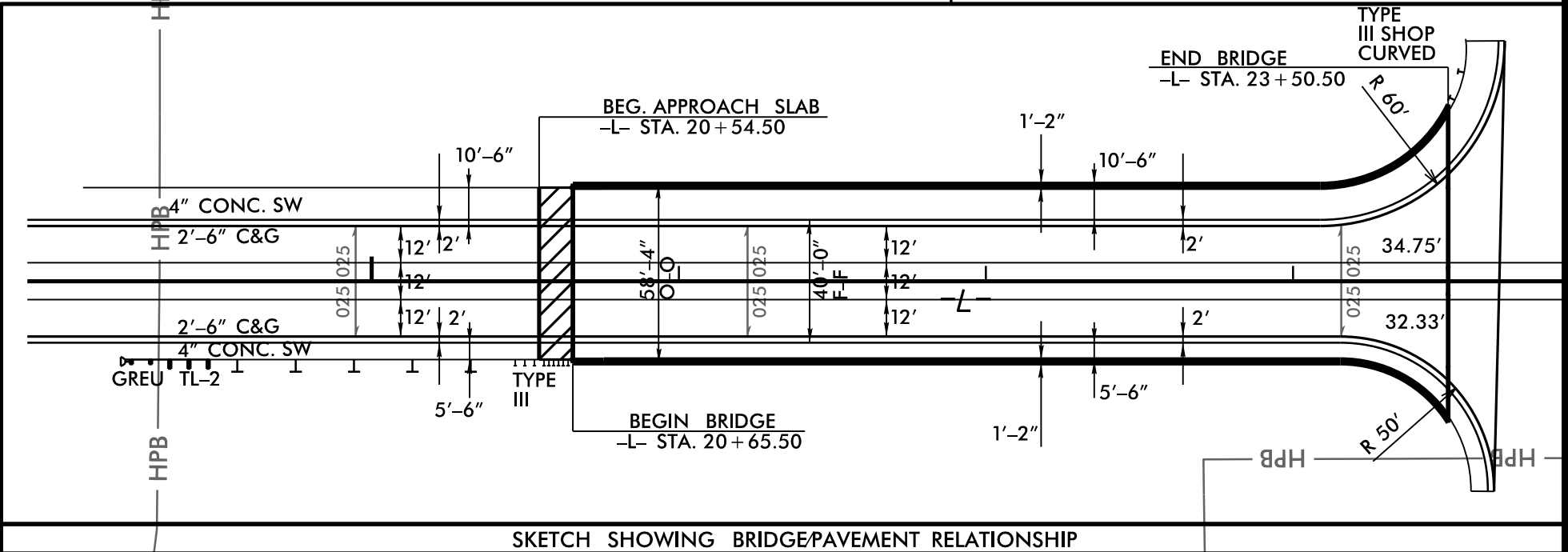
UTILIZE SPECIAL STILLING BASIN WHERE APPLICABLE.

Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.

Place Matting for Erosion Control on Slope as Work Allows.
Sta. 19+48 to Sta. 20+60 LT
Sta. 19+20 to Sta. 20+55 RT

-L-
PI Sta 17+10J6
 $\Delta = 11' 32' 05.1" (LT)$
 $D = 4' 30' 00.0"$
 $L = 256.33'$
 $T = 128.60'$
 $R = 1273.24'$
 $SE = .025 NC$
 $RO = SEE PLANS$
 $DS = 40MPH$

☆ - EXISTING SIGNAL
SEE SHEET 6 FOR -L- PROFILE
SEE SHEET 7 FOR -EY2- PROFILE
SEE SHEETS S-1 THRU S-?? FOR STRUCTURE PLANS

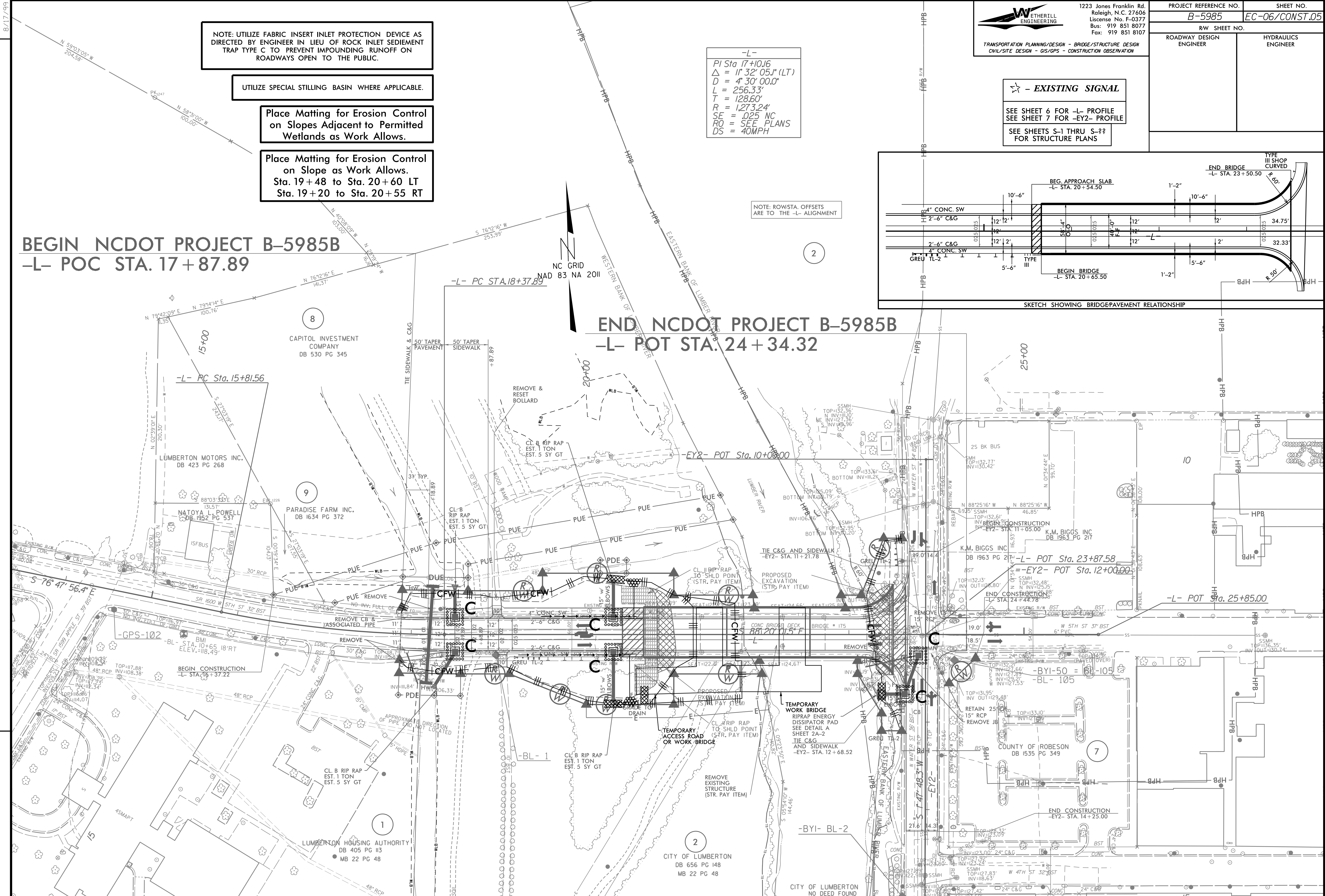


NOTE: ROW/STA. OFFSETS ARE TO THE -L- ALIGNMENT

BEGIN NCDOT PROJECT B-5985B
-L- POC STA. 17+87.89

END NCDOT PROJECT B-5985B
-L- POT STA. 24+34.32

REVISIONS



MATCHLINE SHEET 4 -EY2- STA. 15+00.00