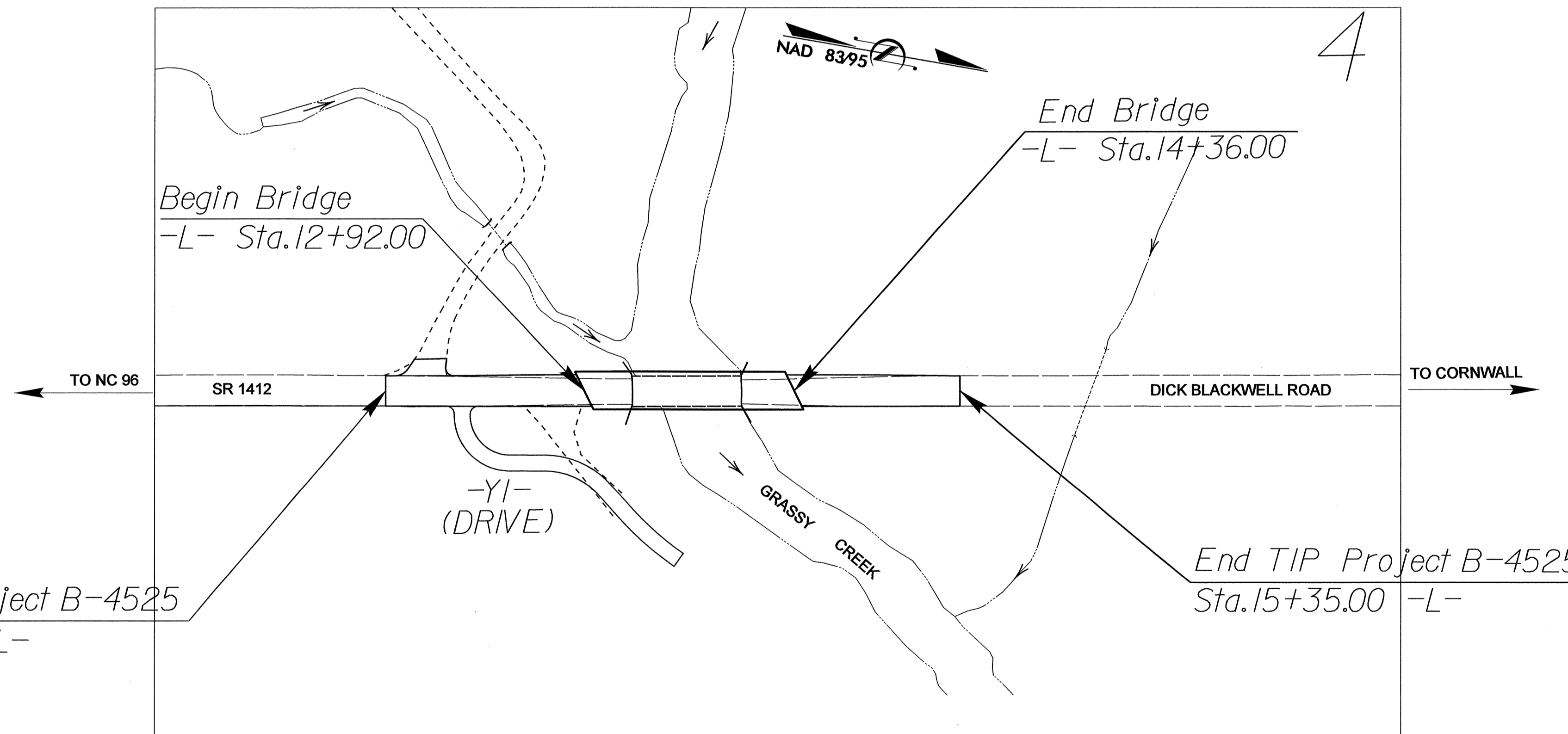


**TIP PROJECT: B-4525**

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

**LOCATION: BRIDGE #133 OVER GRASSY CREEK ON SR 1412 (Dick Blackwell Rd)**  
**TYPE OF WORK: GRADING, PAVING, DRAINAGE, AND STRUCTURE**



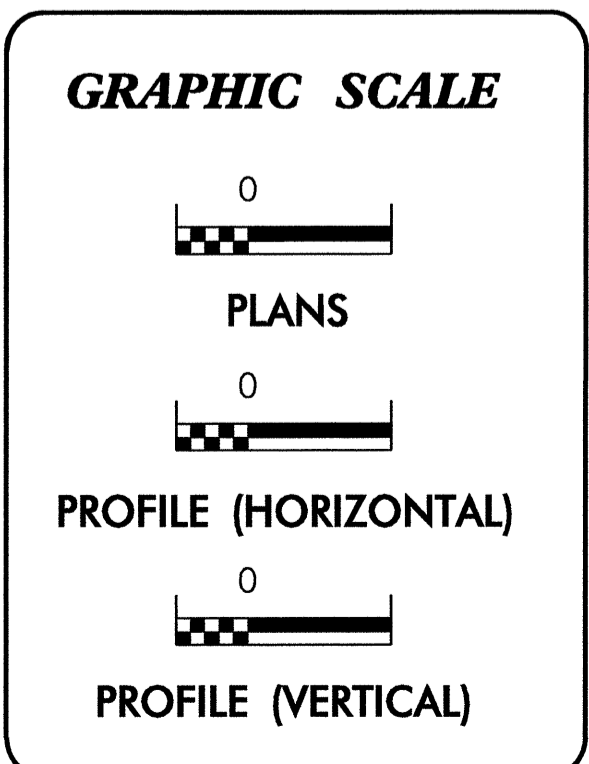
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4525	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

**EROSION AND SEDIMENT CONTROL MEASURES**

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	III III III
1606.01	Special Sediment Control Fence	▲▲▲▲▲▲
1622.01	Temporary Berms and Slope Drains	▲▲▲▲▲▲
1630.01	Riser Basin	○
	Silt Basin Type B	▨
1633.01	Temporary Rock Silt Check Type-A	▨
	Temporary Rock Silt Check Type-B	▨
	Wattle	○
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	○
1630.04	Stilling Basin	▨
1630.06	Special Stilling Basin	▨
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	▨
	Tiered Skimmer Basin	▨
	Infiltration Basin	▨

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

**ENVIRONMENTALLY SENSITIVE AREA(S) EXIST ON THIS PROJECT**  
 Refer To E. C. Special Provisions for Special Considerations.



ROADSIDE ENVIRONMENTAL UNIT  
 DIVISION OF HIGHWAYS  
 STATE OF NORTH CAROLINA

Prepared In the Office of:  
**ROADSIDE ENVIRONMENTAL UNIT**  
 1 South Wilmington St.  
 Raleigh, NC 27611  
**2006 STANDARD SPECIFICATIONS**

Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated July 18, 2006 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1605.01 Temporary Silt Fence	1630.06 Special Stilling Basin
1607.01 Gravel Construction Entrance	1632.03 Rock Inlet Sediment Trap Type C
1630.05 Temporary Diversion	1633.01 Temporary Rock Silt Check Type A
	1635.02 Rock Pipe Inlet Sediment Trap Type B



BEGIN TIP PROJECT B-4525  
Sta. 11+80.00 -L-

PROJECT REFERENCE NO.	SHEET NO.
B-4525	EC-3/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 4

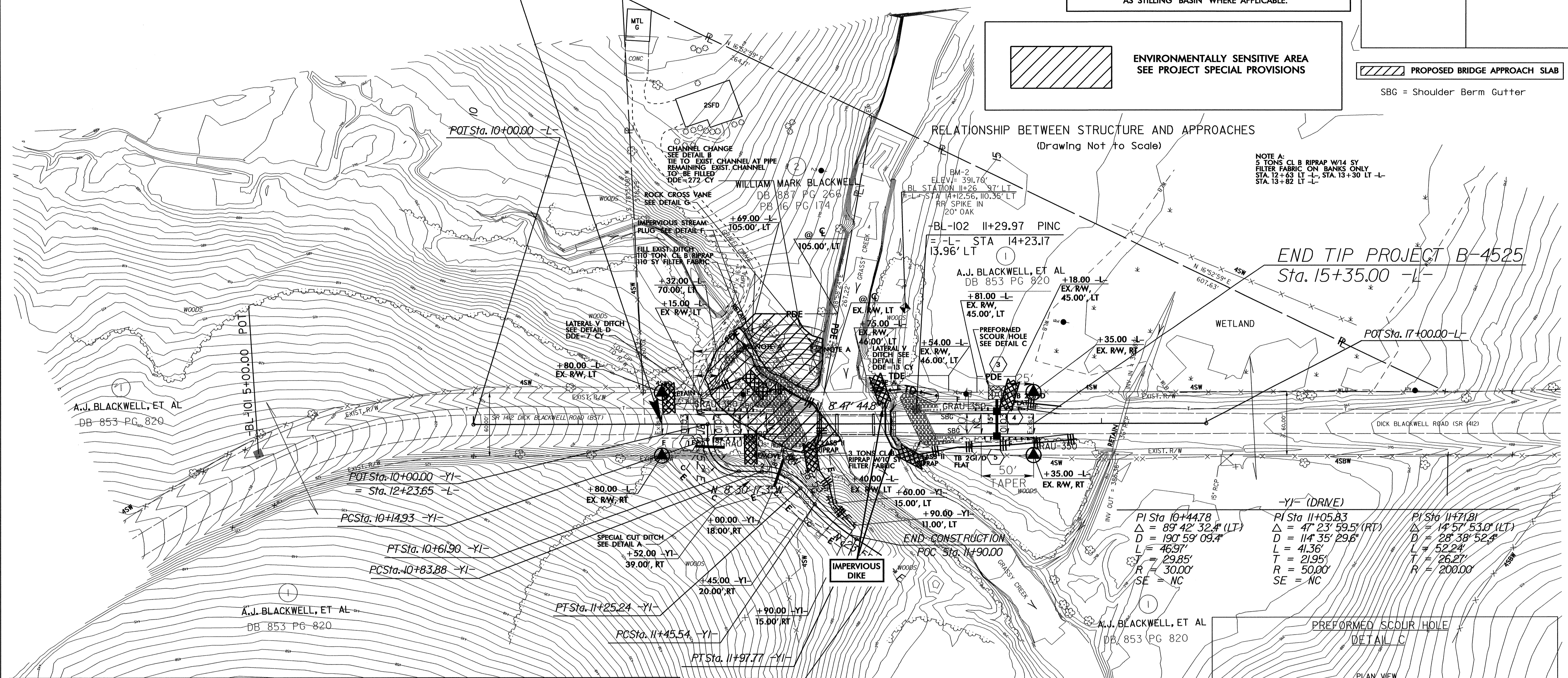
NOTE:  
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B  
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT  
DRAINAGE OUTLETS.

NOTE:  
UTILIZE SPECIAL STILLING BASIN AND/OR  
TEMPORARY ROCK SILT CHECK TYPE - A  
AS STILLING BASIN WHERE APPLICABLE.

ENVIRONMENTALLY SENSITIVE AREA  
SEE PROJECT SPECIAL PROVISIONS

PROPOSED BRIDGE APPROACH SLAB

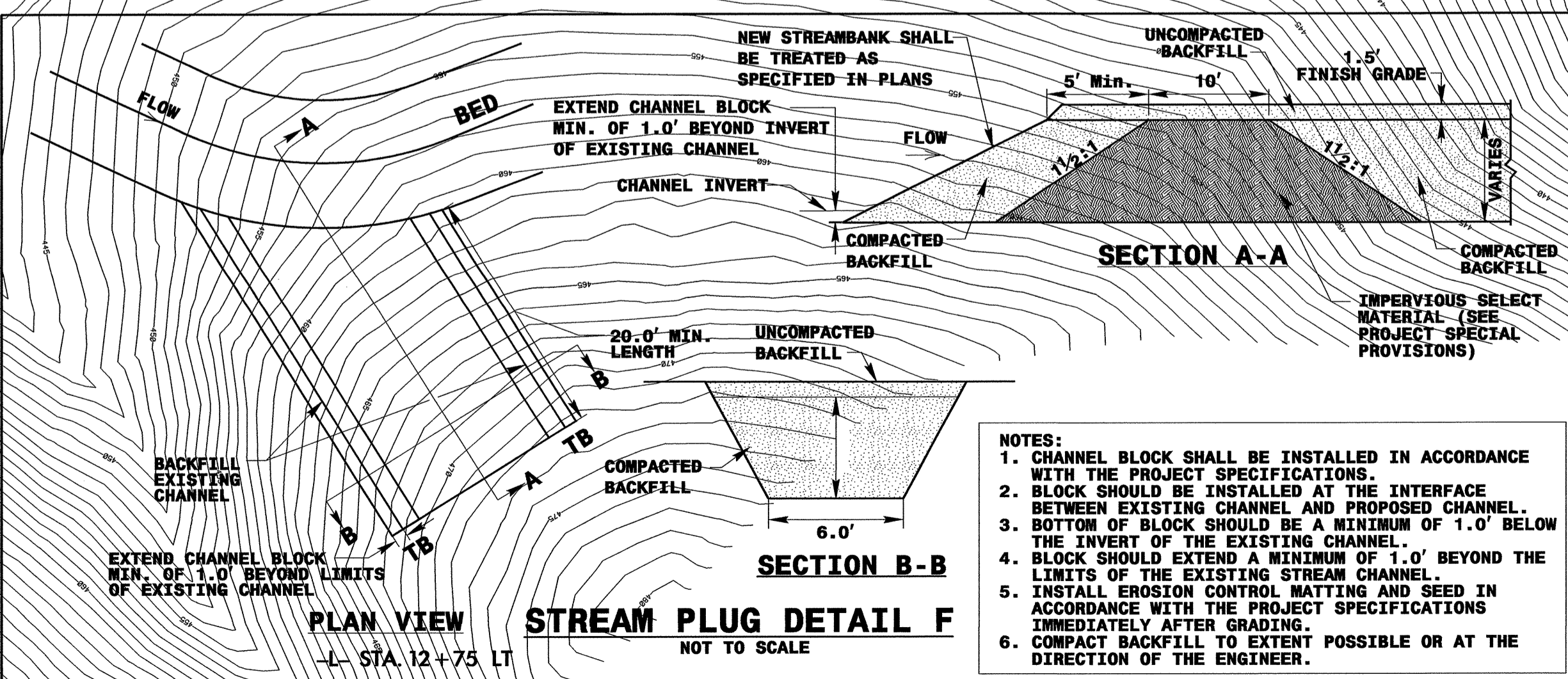
SBG = Shoulder Berm Gutter



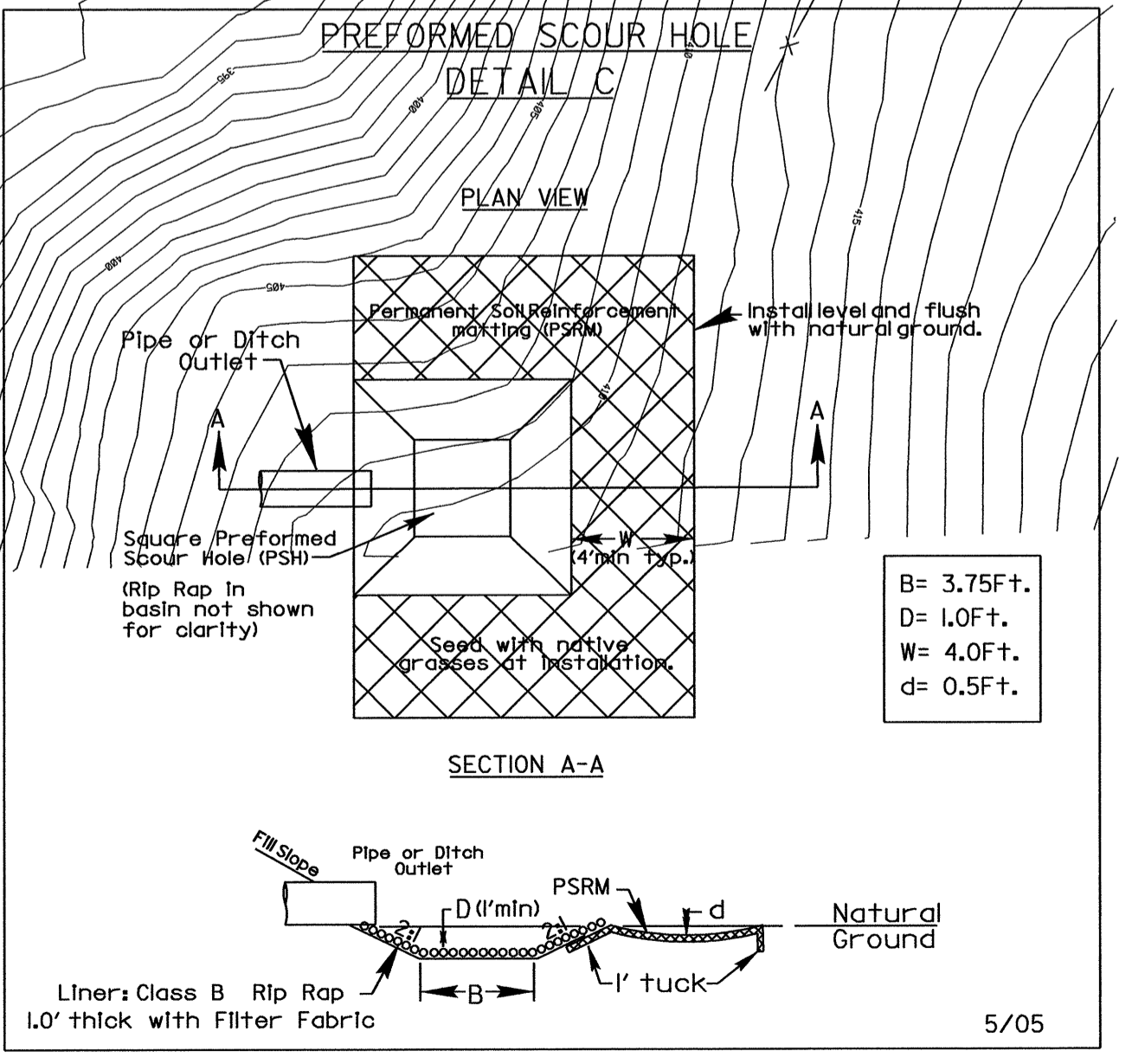
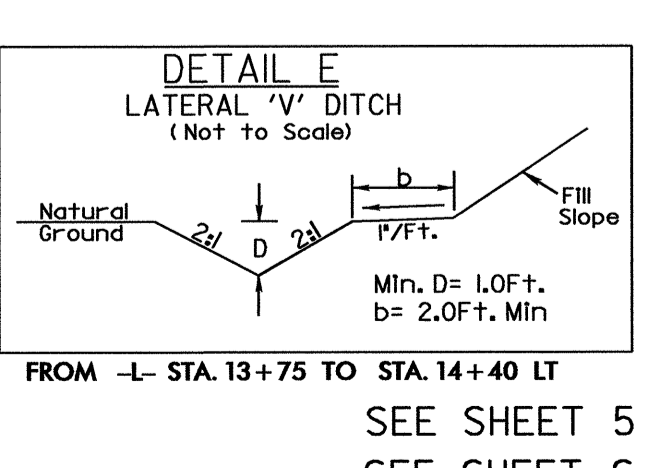
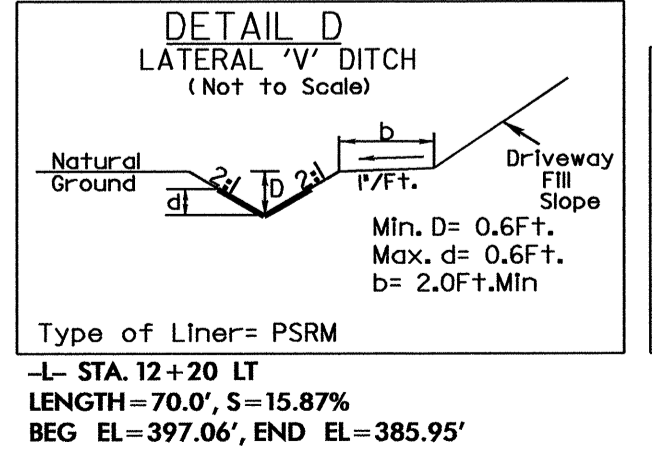
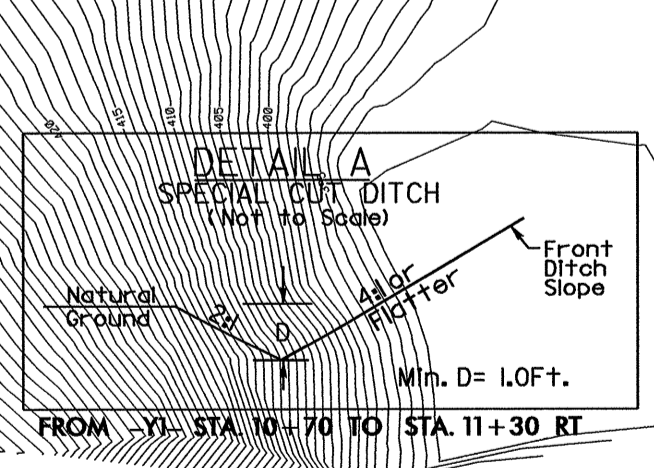
NOTE A:  
5 TONS CL B RIPRAP W/14 SY  
FILTER FABRIC ON BANKS ONLY  
STA. 12+63 LT - STA. 13+30 LT -L-  
STA. 13+82 LT -L-

END TIP PROJECT B-4525  
Sta. 15+35.00 -L-

-Y/-(DRIVE)	PI Sta 10+447.8	PI Sta 11+05.83	PI Sta 11+71.81
$\Delta$	$\Delta = 89^\circ 42' 32.4''$ (LT)	$\Delta = 47^\circ 23' 59.5''$ (RT)	$\Delta = 14^\circ 57' 53.0''$ (LT)
D	$D = 190' 59' 09.4''$	$D = 114' 35' 29.6''$	$D = 28' 38' 52.4''$
L	$L = 46.97'$	$L = 41.36'$	$L = 52.24'$
T	$T = 29.85'$	$T = 21.95'$	$T = 26.27'$
R	$R = 30.00'$	$R = 50.00'$	$R = 200.00'$
SE	$SE = NC$	$SE = NC$	$SE = NC$



- NOTES:
1. CHANNEL BLOCK SHALL BE INSTALLED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
  2. BLOCK SHOULD BE INSTALLED AT THE INTERFACE BETWEEN EXISTING CHANNEL AND PROPOSED CHANNEL.
  3. BOTTOM OF BLOCK SHOULD BE A MINIMUM OF 1.0' BELOW THE INVERT OF THE EXISTING CHANNEL.
  4. BLOCK SHOULD EXTEND A MINIMUM OF 1.0' BEYOND THE LIMITS OF THE EXISTING CHANNEL.
  5. INSTALL EROSION CONTROL MATTING AND SEED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS IMMEDIATELY AFTER GRADING.
  6. COMPACT BACKFILL TO EXTENT POSSIBLE OR AT THE DIRECTION OF THE ENGINEER.



SEE SHEET 5 FOR -L- & -Y/-(PROFILE  
SEE SHEET S-I THRU S- FOR STRUCTURE PLANS

BEGIN TIP PROJECT B-4525  
Sta. 11+80.00 -L-

PROJECT REFERENCE NO.	SHEET NO.
B-4525	EC-4/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

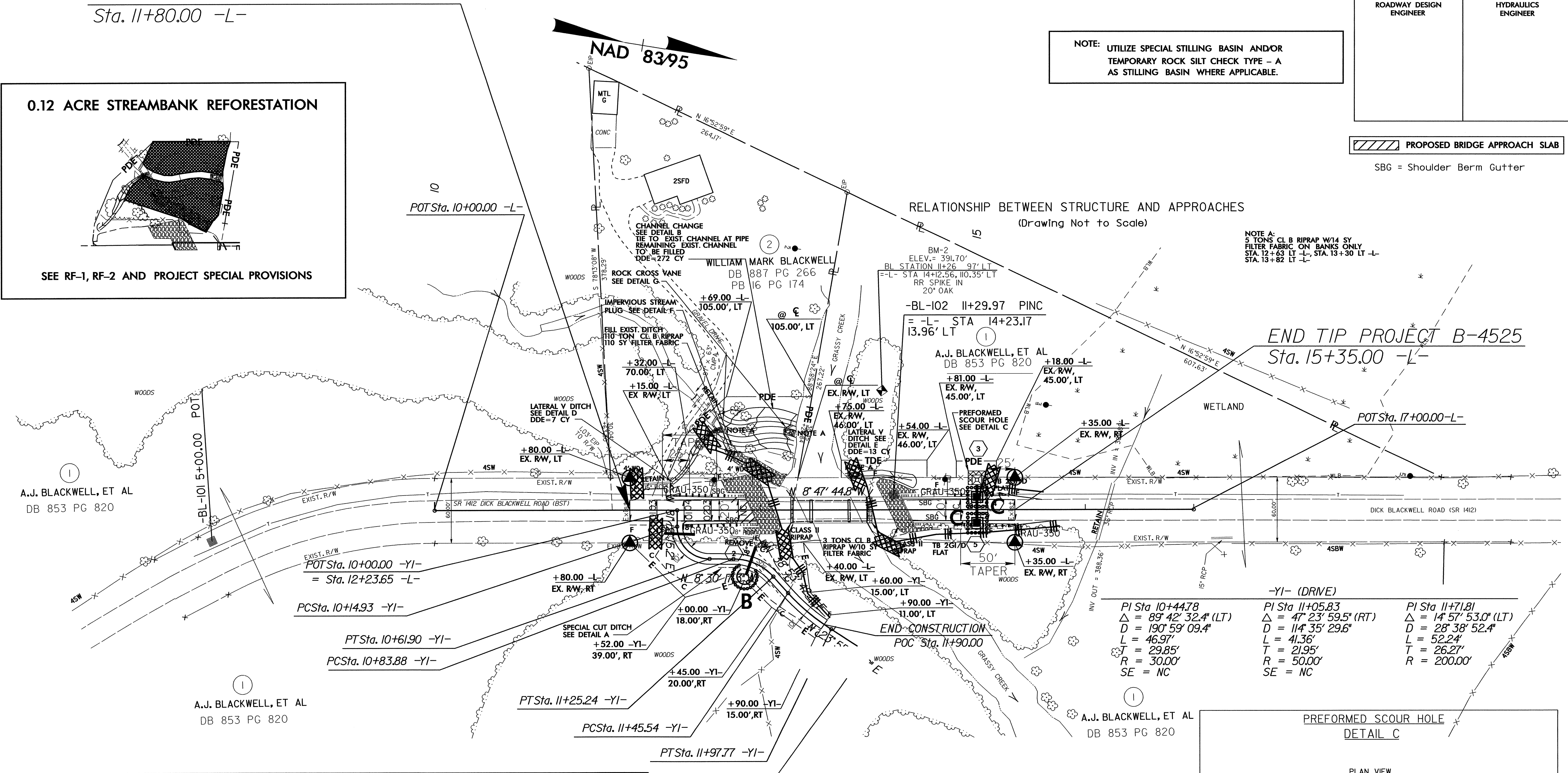
NOTE: UTILIZE SPECIAL STILLING BASIN AND/OR TEMPORARY ROCK SILT CHECK TYPE - A AS STILLING BASIN WHERE APPLICABLE.

**0.12 ACRE STREAMBANK REFORESTATION**

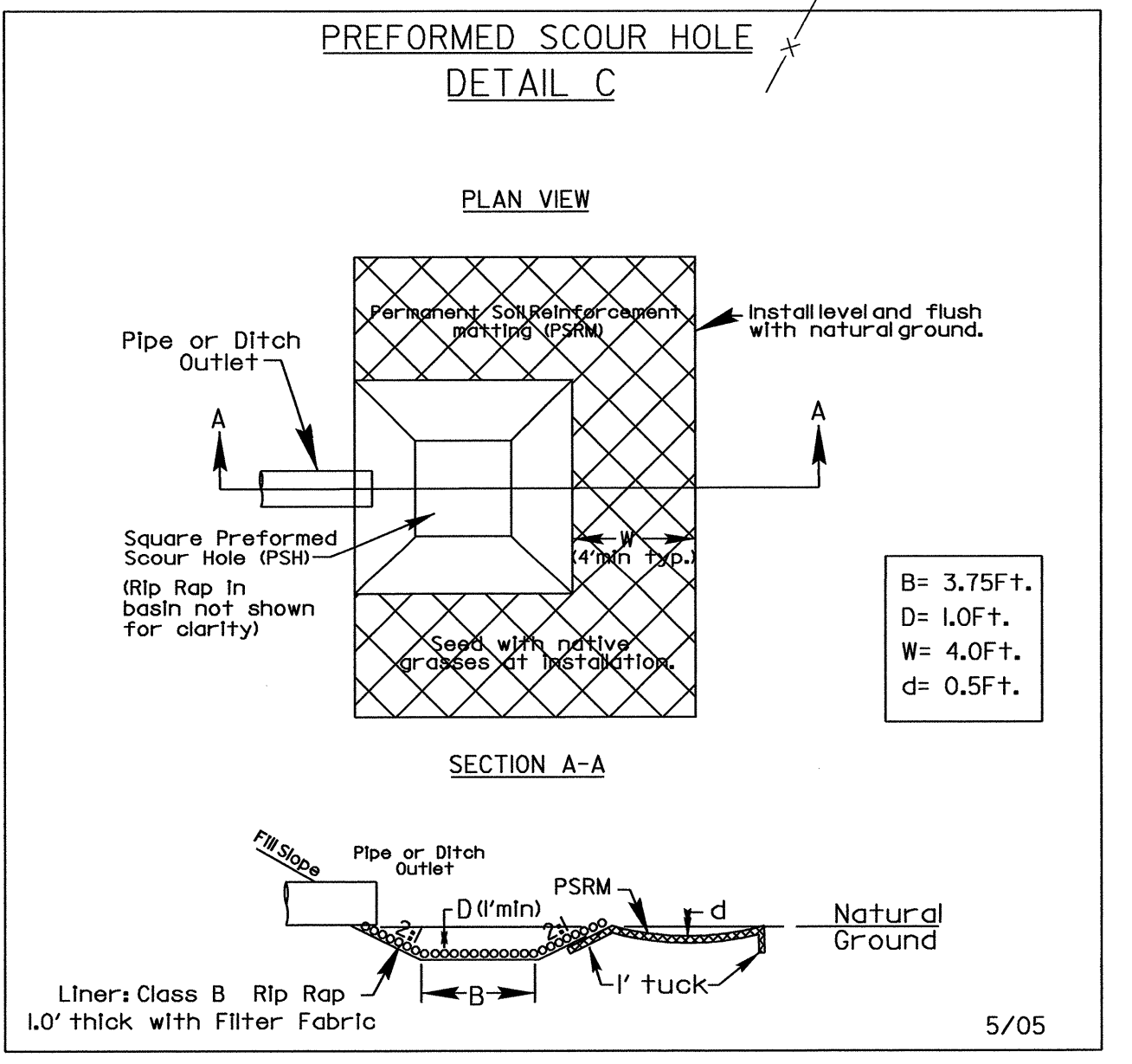
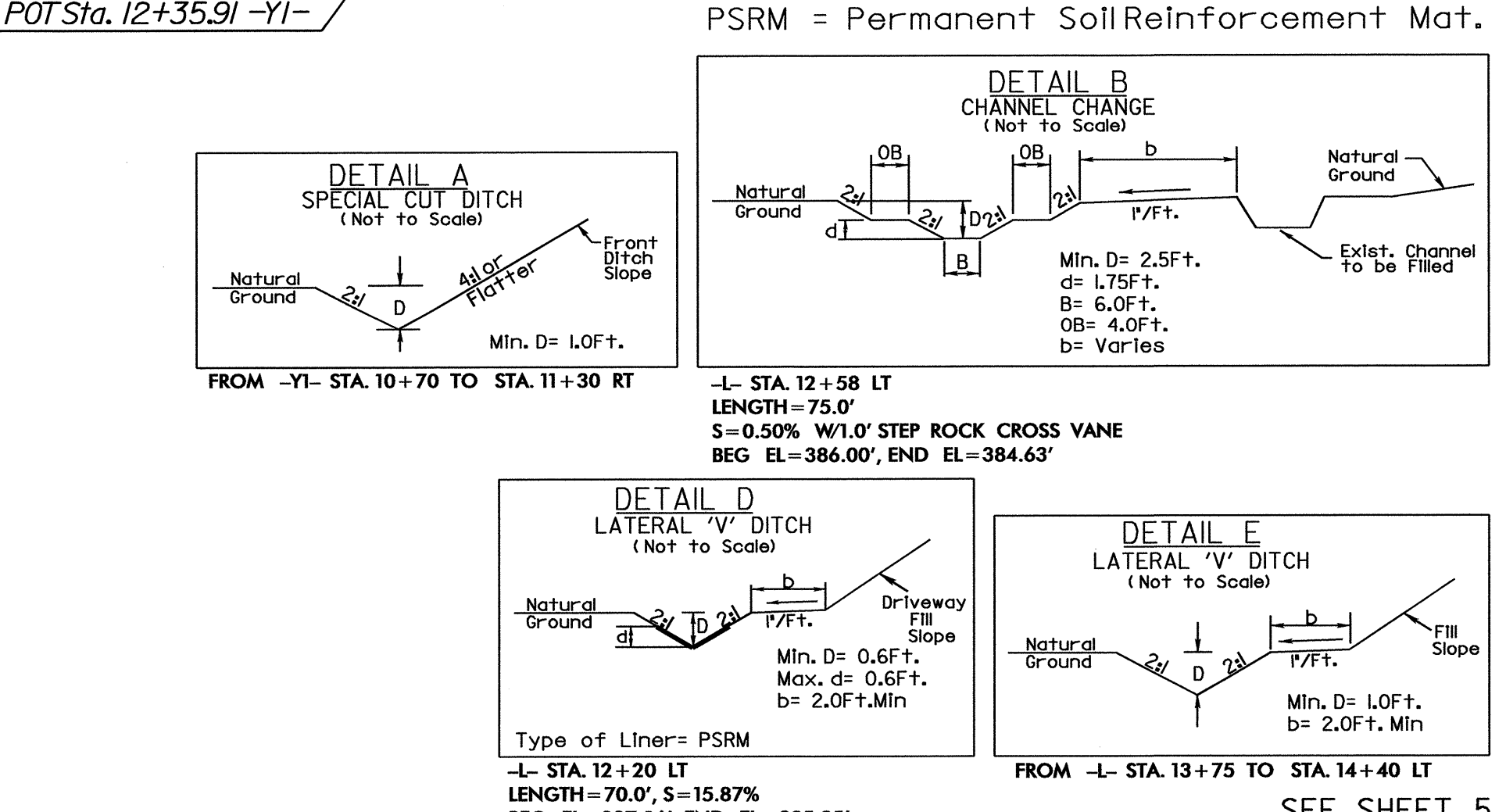
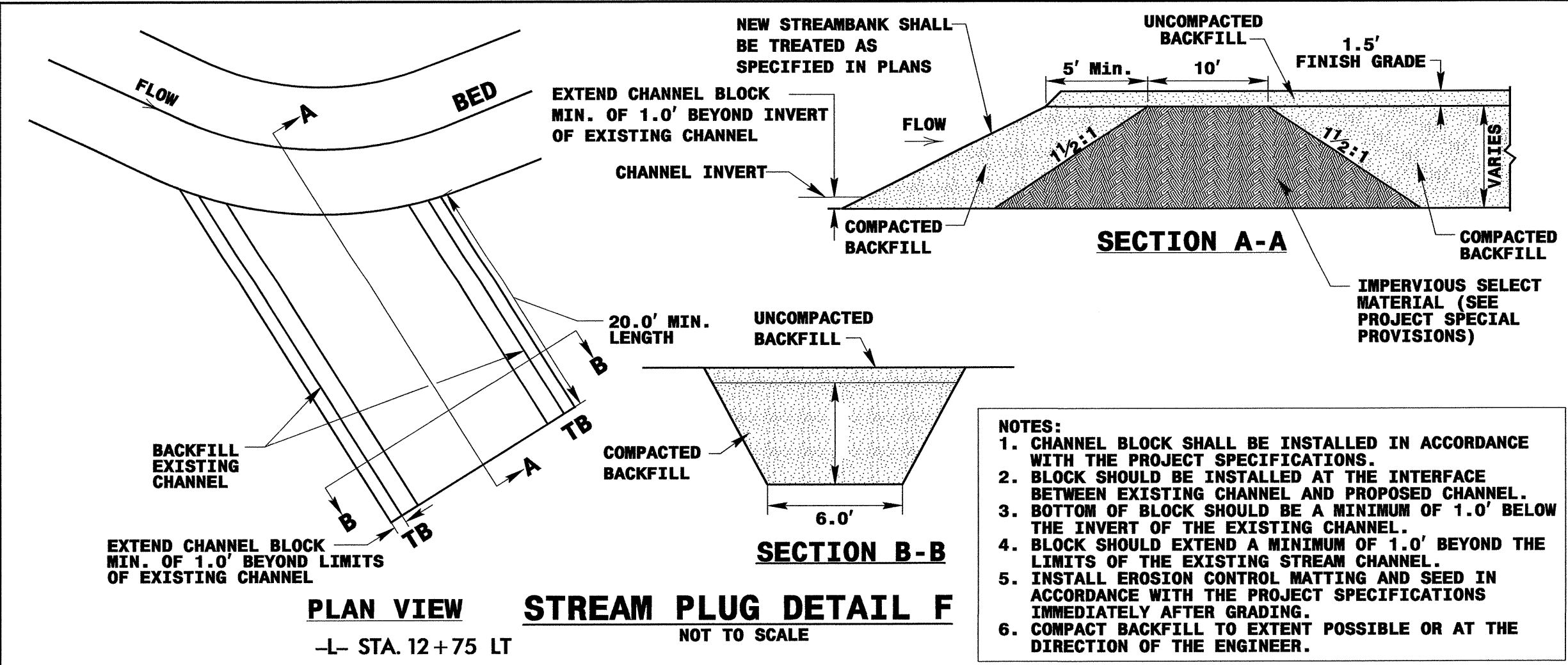
SEE RF-1, RF-2 AND PROJECT SPECIAL PROVISIONS

PROPOSED BRIDGE APPROACH SLAB

SBG = Shoulder Berm Gutter



-YI- (DRIVE)		
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$T = 29.85'$	$T = 21.95'$	$T = 26.27'$
$R = 30.00'$	$R = 50.00'$	$R = 200.00'$
SE = NC	SE = NC	SE = NC



SEE SHEET 5 FOR -L- & -YI- PROFILE  
SEE SHEET S-1 THRU S- FOR STRUCTURE PLANS