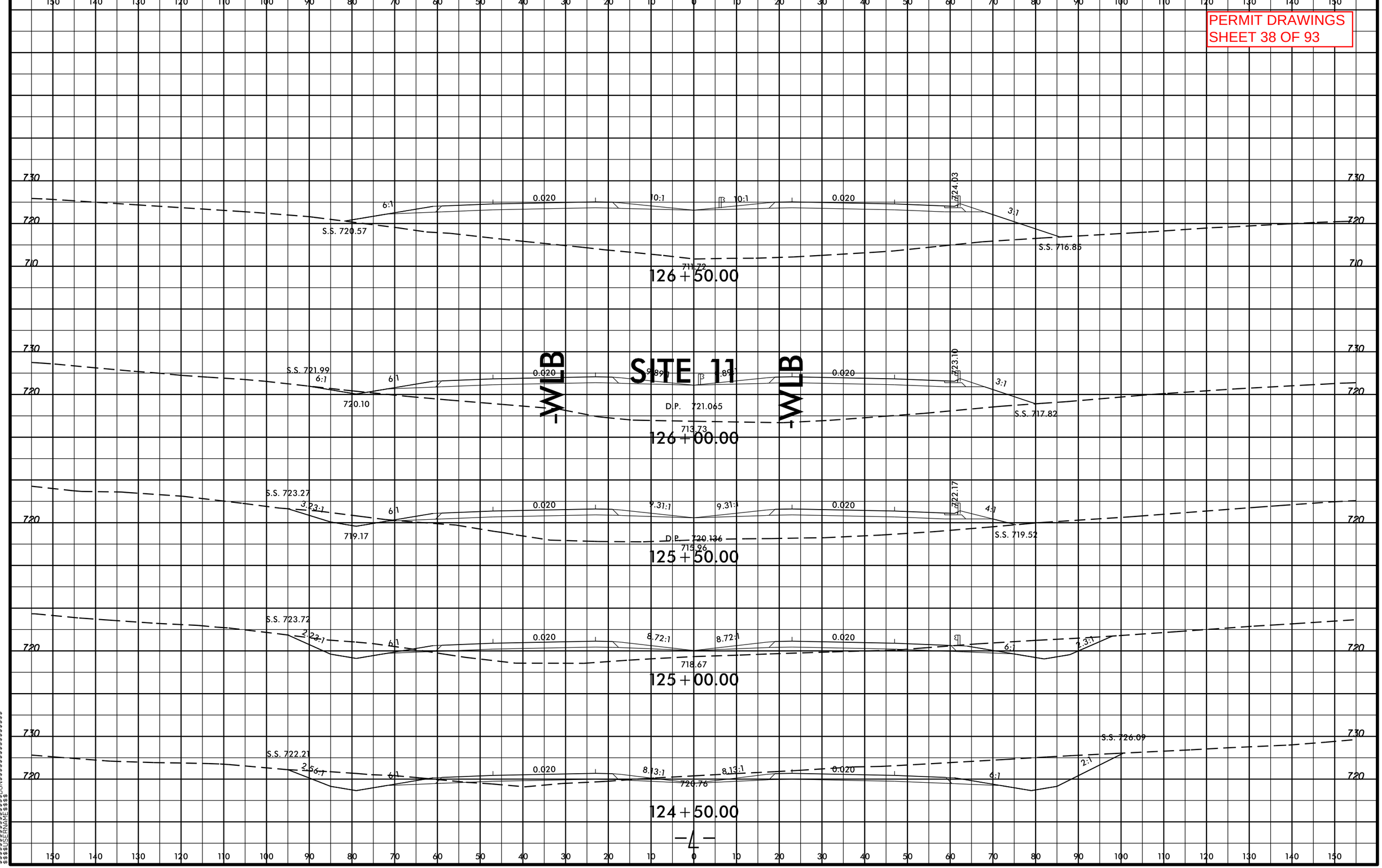
PROJ. REFERENCE NO.	SHEET NO.
U-2525B	X-88

0 5 10

PERMIT DRAWINGS
SHEET 38 OF 93



$$$$$$SYSTIME$$$$$
$$$$$$

PROJECT REFERENCE NO.	SHEET NO.
U-2525B	13
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

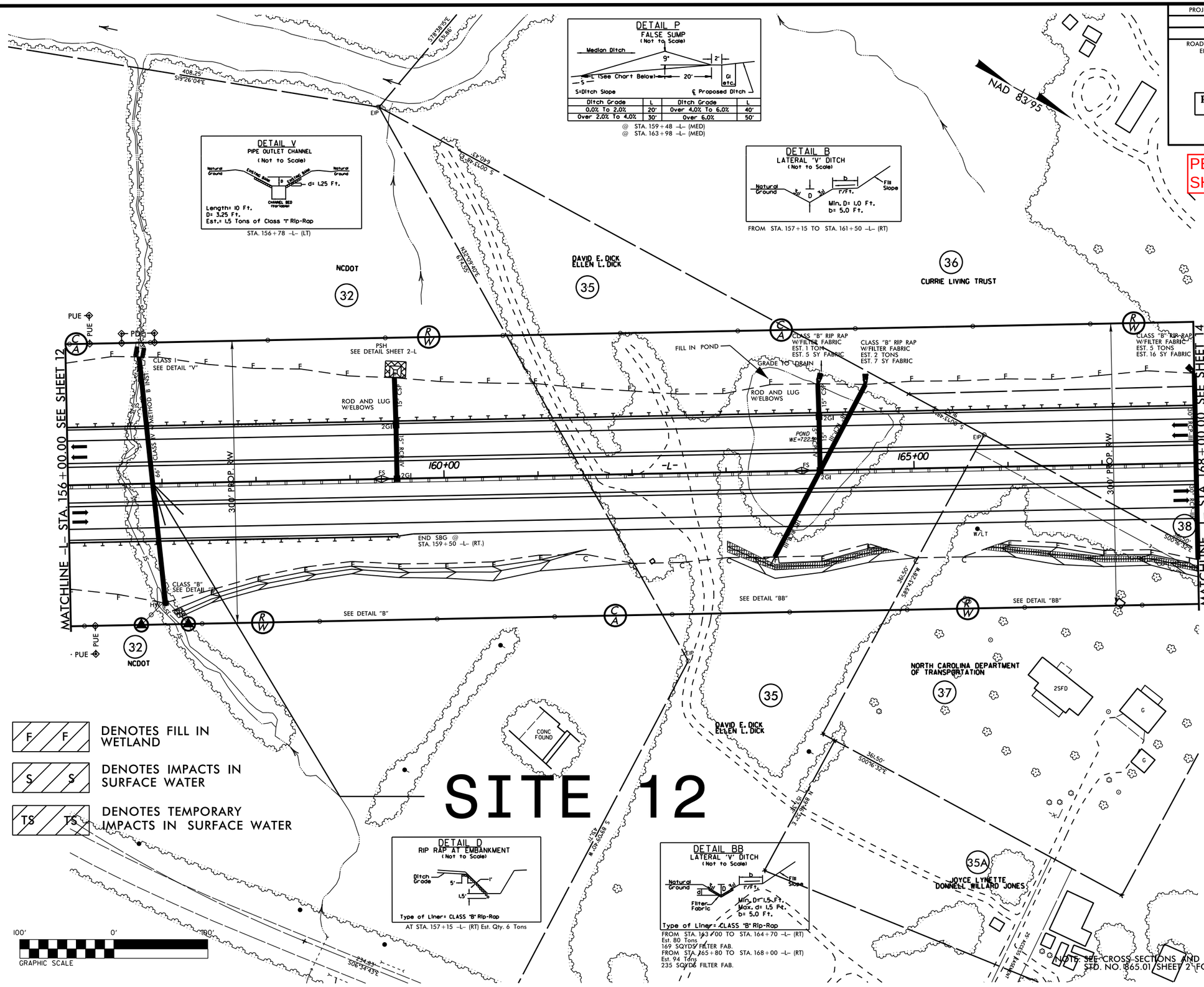
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

PERMIT DRAWINGS
SHEET 39 OF 93

REVISIONS

5/14/99

03-19-13 R/W REVISION (DNG) - REVISED THE PROPERTY OWNER NAME ON PARCEL 35 (RUBY G.DONNELL) TO (DAVID E.DICK,ELLEN L.DICK) AND REVISED THE SOUTHERN PROPERTY LINE.
SUBDIVIDED PARCEL 35, ADDING PARCEL 35A (JOYCE LYNETTE DONNELL WILLARD JONES) AND PARCEL 35B (ROY E.DONNELL II AND WIFE,NANCY S.DONNELL).
REVISED THE PROPERTY OWNER NAME ON PARCEL 36 (MITCHELL K.CURRIE) TO (CURRIE LIVING TRUST).
CHANGED THE EASTERN PROPERTY LINE ON PARCEL 32 AND THE NORTHERN PROPERTY LINE ON PARCEL 36 TO R/W.



NOTE: SEE CROSS SECTIONS AND ROADWAY STANDARD DRAWINGS, STD. NO. 865.01 SHEET 2 FOR SPECIAL MEDIAN GRADING.

SEE SHEET 45 FOR -L- PROFILE

PROJECT REFERENCE NO.	SHEET NO.
U-2525B	13
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

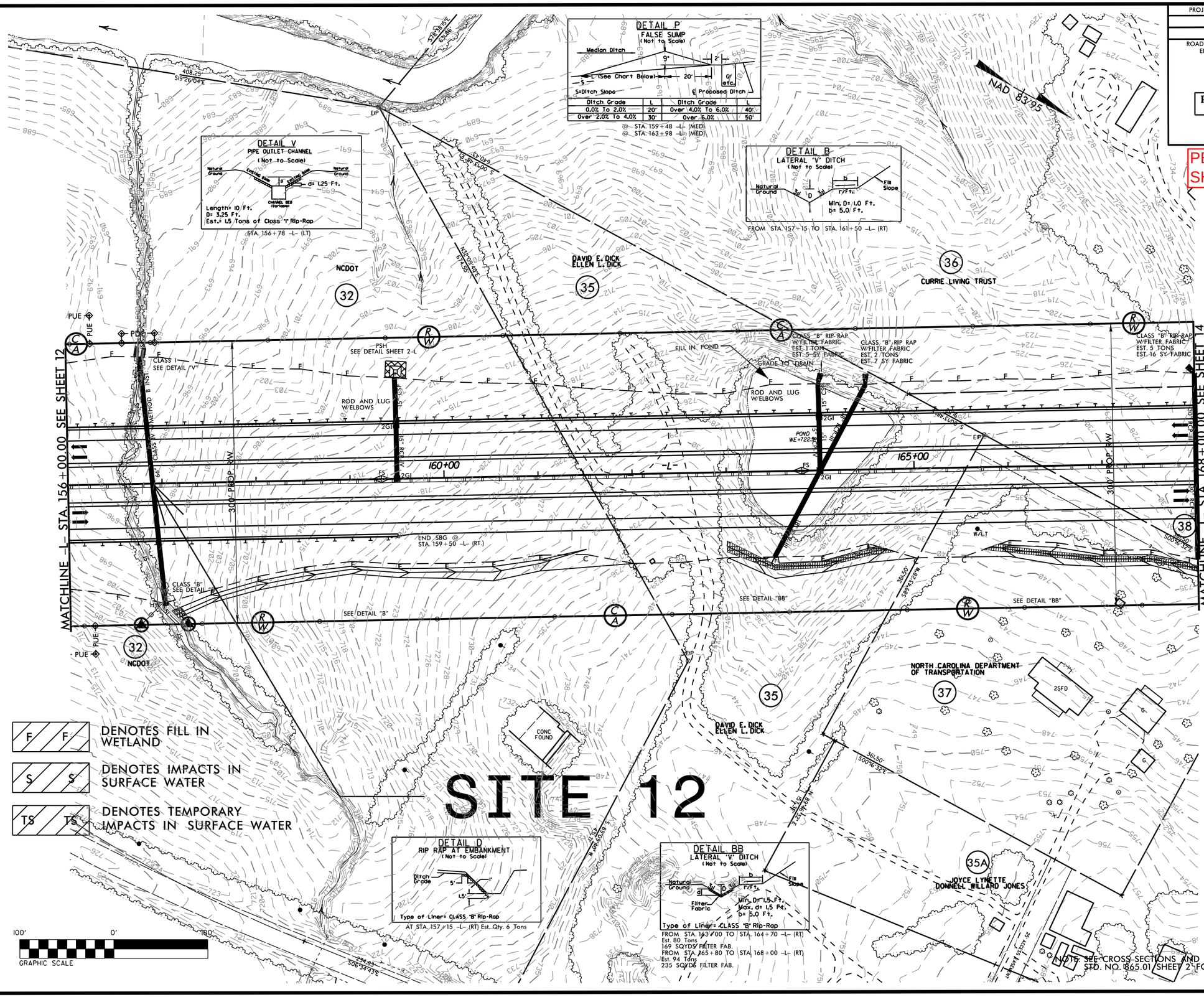
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

PERMIT DRAWINGS
SHEET 40 OF 93

REVISIONS

5/14/99

03-19-13 R/W REVISION (DWG) - REVISED THE PROPERTY OWNER NAME ON PARCEL 35 (RUBY G.DONNELL) TO (DAVID E.DICK,ELLEN L.DICK) AND REVISED THE SOUTHERN PROPERTY LINE.
SUBMIDED PARCEL 35 ADDING PARCEL 35A (JOYCE LYNETTE DONNELL WILLARD JONES) AND PARCEL 35B (ROY E.DONNELL II AND WIFE,NANCY S.DONNELL).
REVISED THE PROPERTY OWNER NAME ON PARCEL 36 (MITCHELL K.CURRIE) TO (CURRIE LIVING TRUST).
CHANGED THE EASTERN PROPERTY LINE ON PARCEL 32 AND THE NORTHERN PROPERTY LINE ON PARCEL 36 TO R/W.



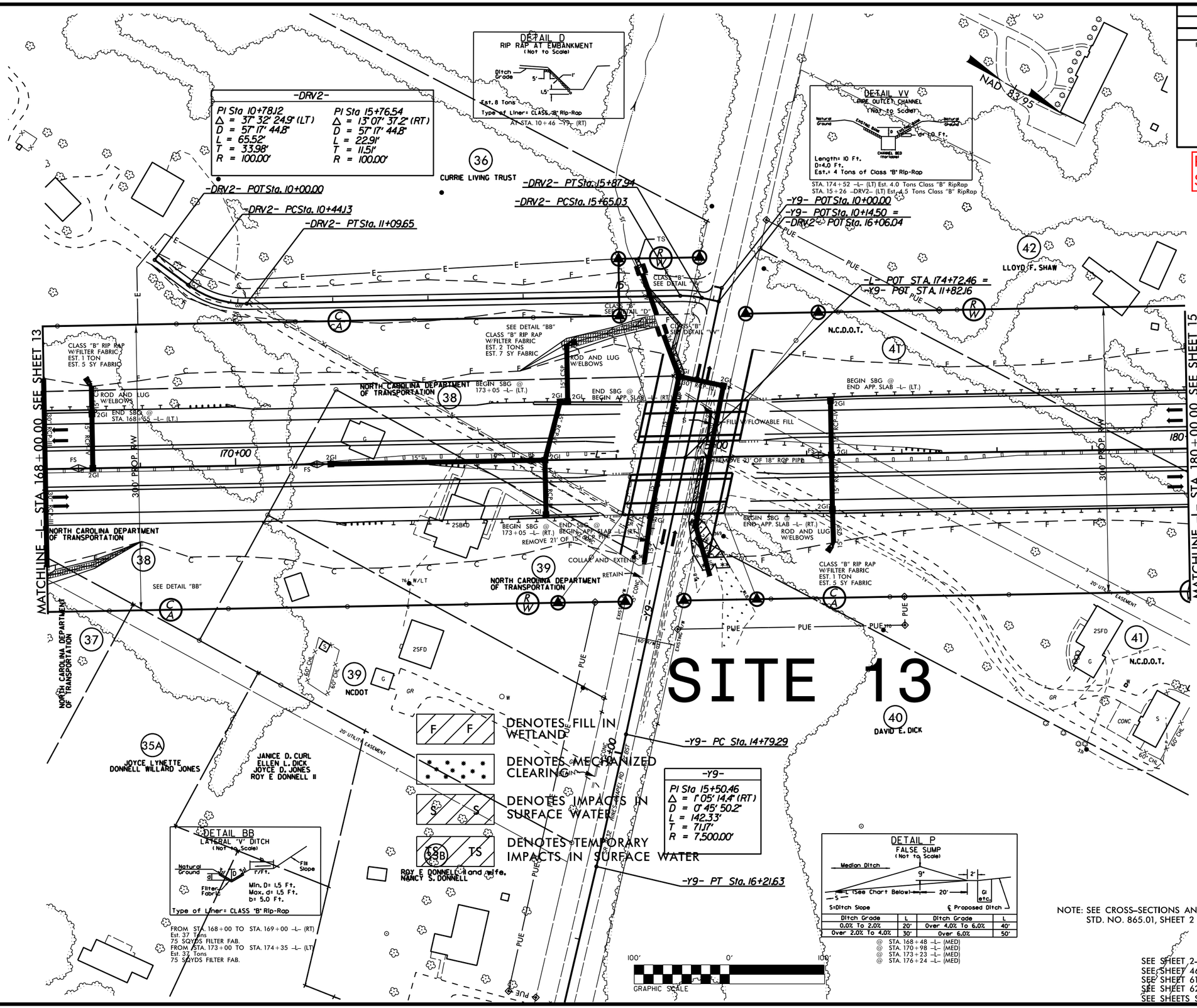
NOTE: SEE CROSS SECTIONS AND ROADWAY STANDARD DRAWINGS, STD. NO. 1865.01 SHEET 2 FOR SPECIAL MEDIAN GRADING.

SEE SHEET 45 FOR -L- PROFILE

PROJECT REFERENCE NO.	SHEET NO.
U-2525B	14
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

PERMIT DRAWINGS
SHEET 41 OF 93



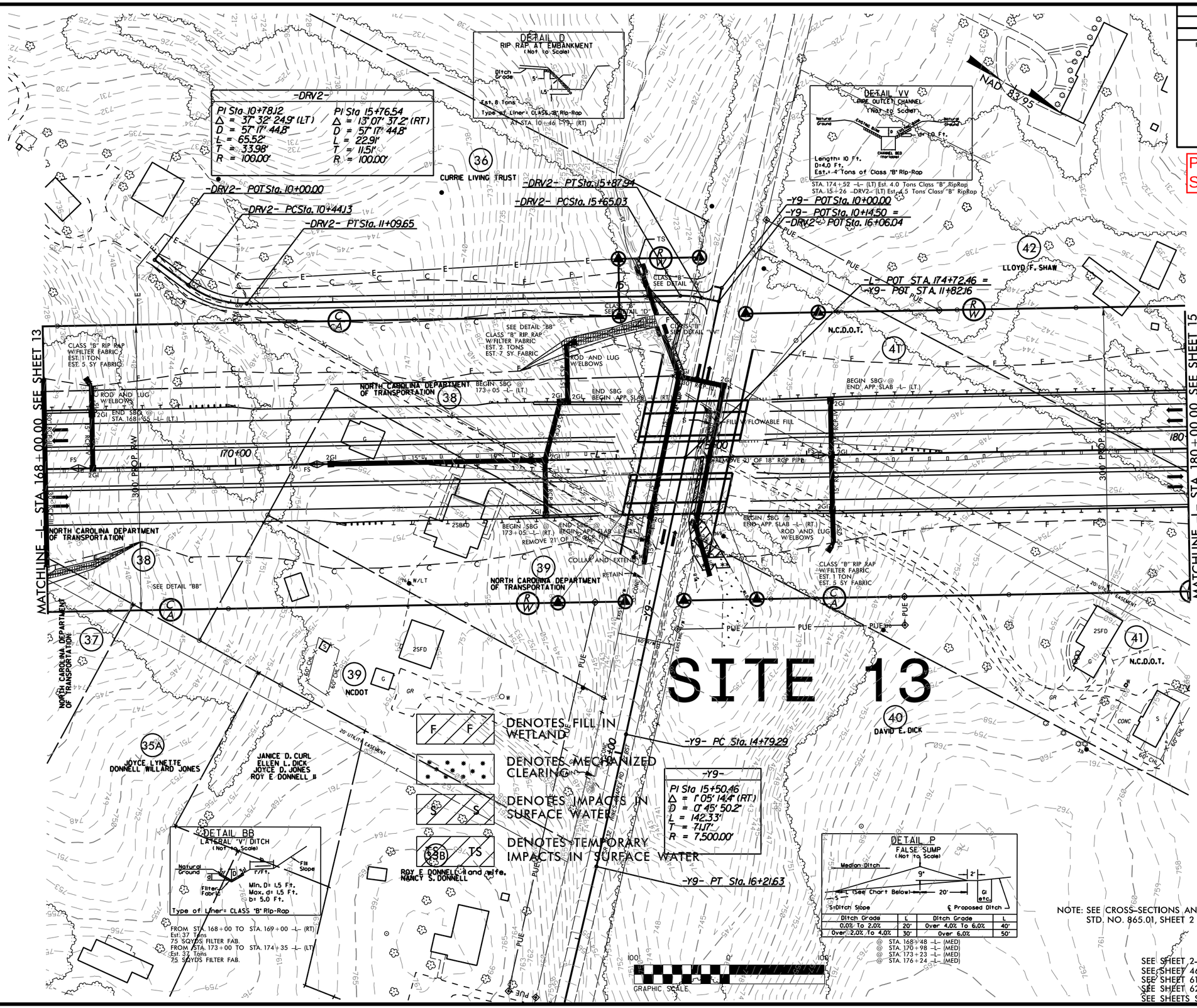
NOTE: SEE CROSS-SECTIONS AND ROADWAY STANDARD DRAWINGS, STD. NO. 865.01, SHEET 2 FOR SPECIAL MEDIAN GRADING.

SEE SHEET 2-N FOR BRIDGE SKETCH
SEE SHEET 46 FOR -L- PROFILE
SEE SHEET 61 FOR -Y9- PROFILE
SEE SHEET 62 FOR -DRV2- PROFILE
SEE SHEETS S-1 THRU S-?? FOR STRUCTURE PLANS

PROJECT REFERENCE NO.	SHEET NO.
U-2525B	14
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

PERMIT DRAWINGS
SHEET 42 OF 93



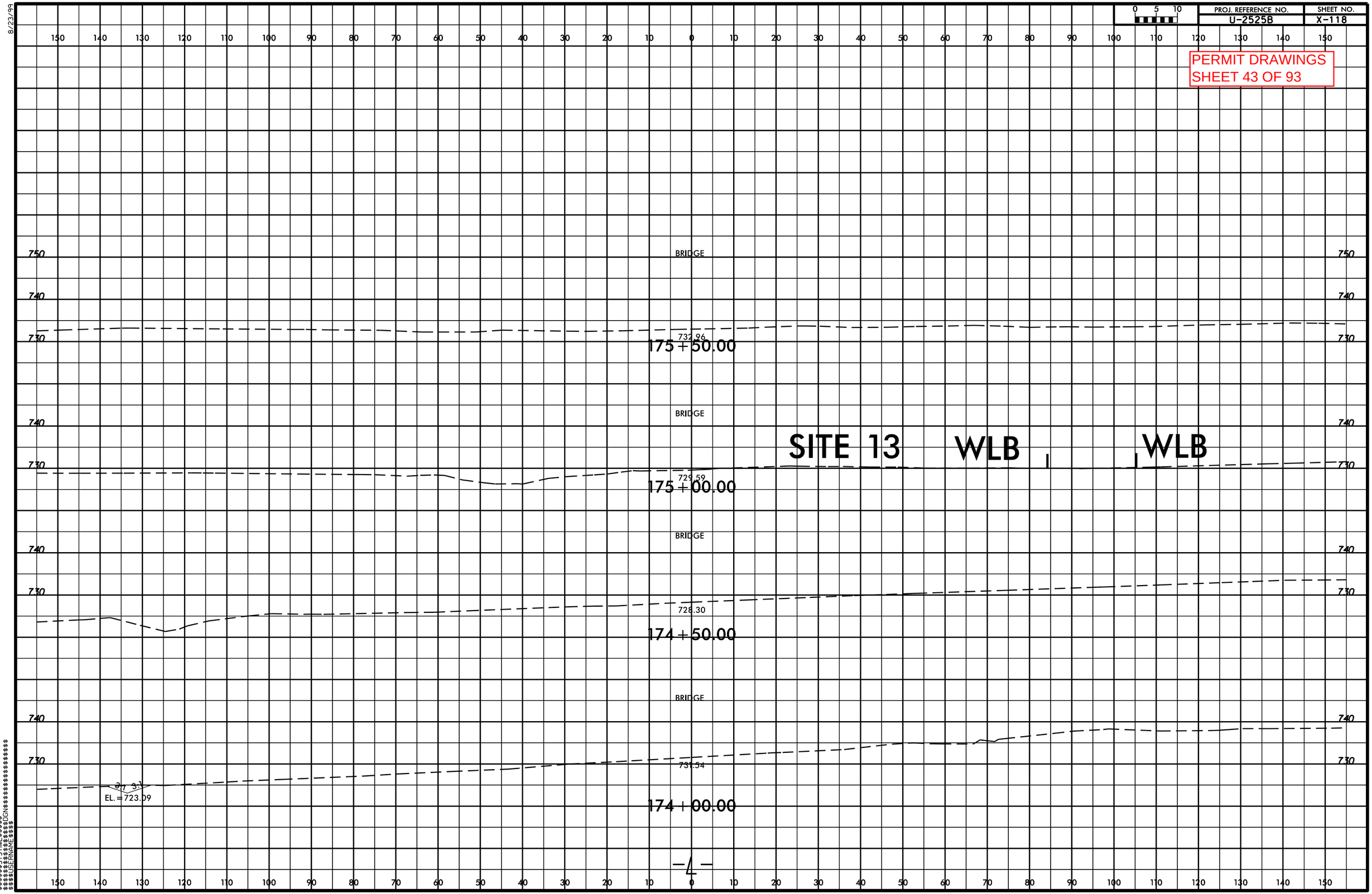
NOTE: SEE CROSS-SECTIONS AND ROADWAY STANDARD DRAWINGS, STD. NO. 865.01, SHEET 2 FOR SPECIAL MEDIAN GRADING.

SEE SHEET 2-N FOR BRIDGE SKETCH
SEE SHEET 46 FOR -L- PROFILE
SEE SHEET 61 FOR -Y9- PROFILE
SEE SHEET 62 FOR -DRV2- PROFILE
SEE SHEETS S-1 THRU S-?? FOR STRUCTURE PLANS

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	U-2525B	X-118

PERMIT DRAWINGS
SHEET 43 OF 93



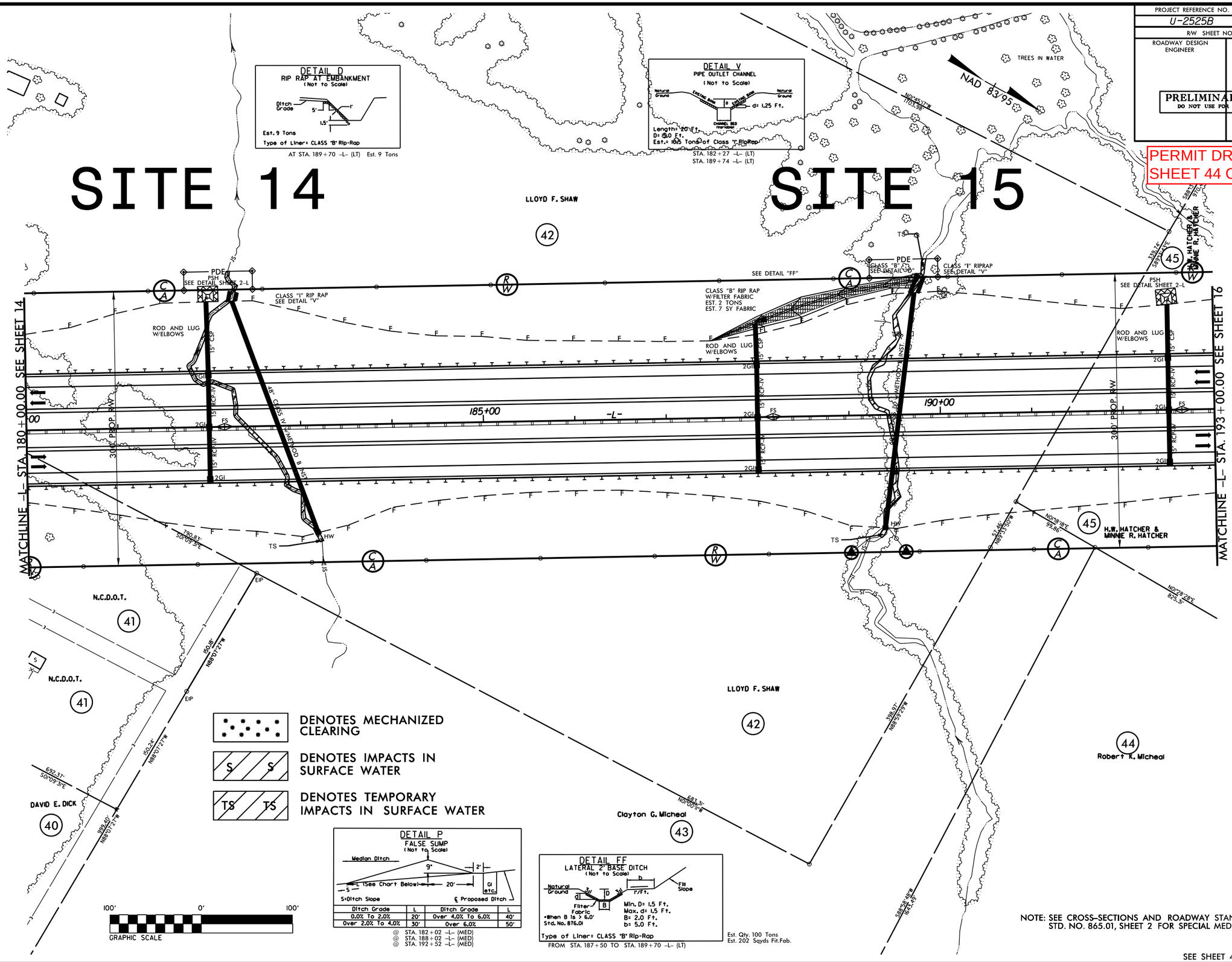
$$$$$$SYSTIME$$$$$
$$$$$$$$$$$$$$DGN$$$$$$$$$$$$$$$$$$$$
$$$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
U-2525B	15
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

PERMIT DRAWINGS
SHEET 44 OF 93

REVISIONS
5/14/99
03-19-13 R/W REVISION (DWG) - CHANGED THE SOUTHERN PROPERTY LINES ON PARCELS 40,41,AND 42 TO R/W.

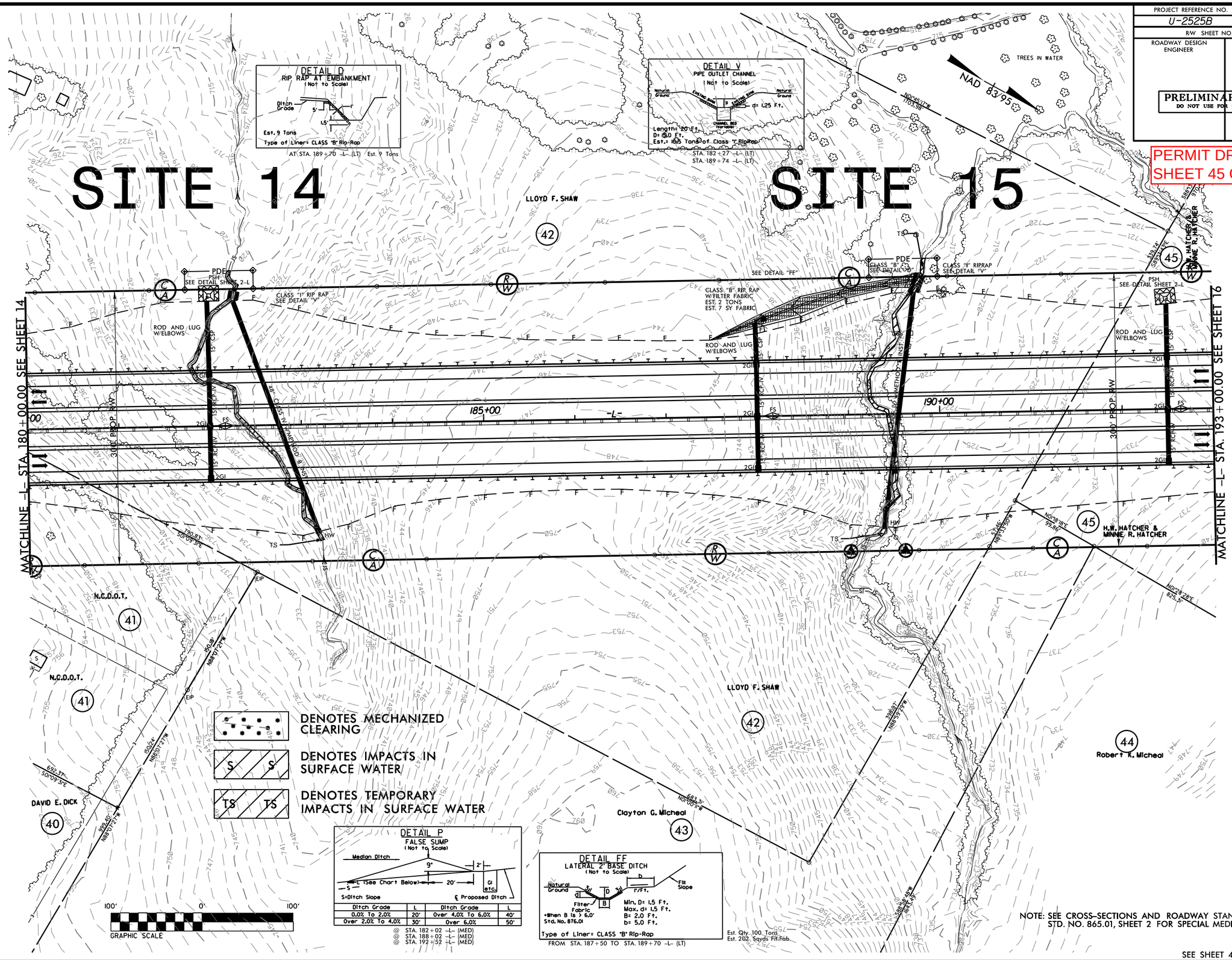


PROJECT REFERENCE NO.	SHEET NO.
U-2525B	15
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

PERMIT DRAWINGS
SHEET 45 OF 93

REVISIONS
5/14/99
03-19-13 R/W REVISION (DWG) - CHANGED THE SOUTHERN PROPERTY LINES ON PARCELS 40,41,AND 42 TO R/W.



NOTE: SEE CROSS-SECTIONS AND ROADWAY STANDARD DRAWINGS, STD. NO. 865.01, SHEET 2 FOR SPECIAL MEDIAN GRADING.

SEE SHEET 46 FOR -L- PROFILE

5/14/99

PROJECT REFERENCE NO.	SHEET NO.
U-2525B	16
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

PERMIT DRAWINGS
SHEET 46 OF 93

SITE 16

DETAIL P
FALSE SUMP
(Not to Scale)

Ditch Grade	L	Ditch Grade	L
0.0% To 2.0%	20'	Over 4.0% To 6.0%	40'
Over 2.0% To 4.0%	30'	Over 6.0%	50'

@ STA. 197+52 -L- (MED)
@ STA. 202+02 -L- (MED)

DETAIL Q
FALSE SUMP
(Not to Scale)

@ STA. 202+02 -L- (RT)

DETAIL R
FALSE SUMP
(Not to Scale)

@ STA. 202+02 -L- (LT)

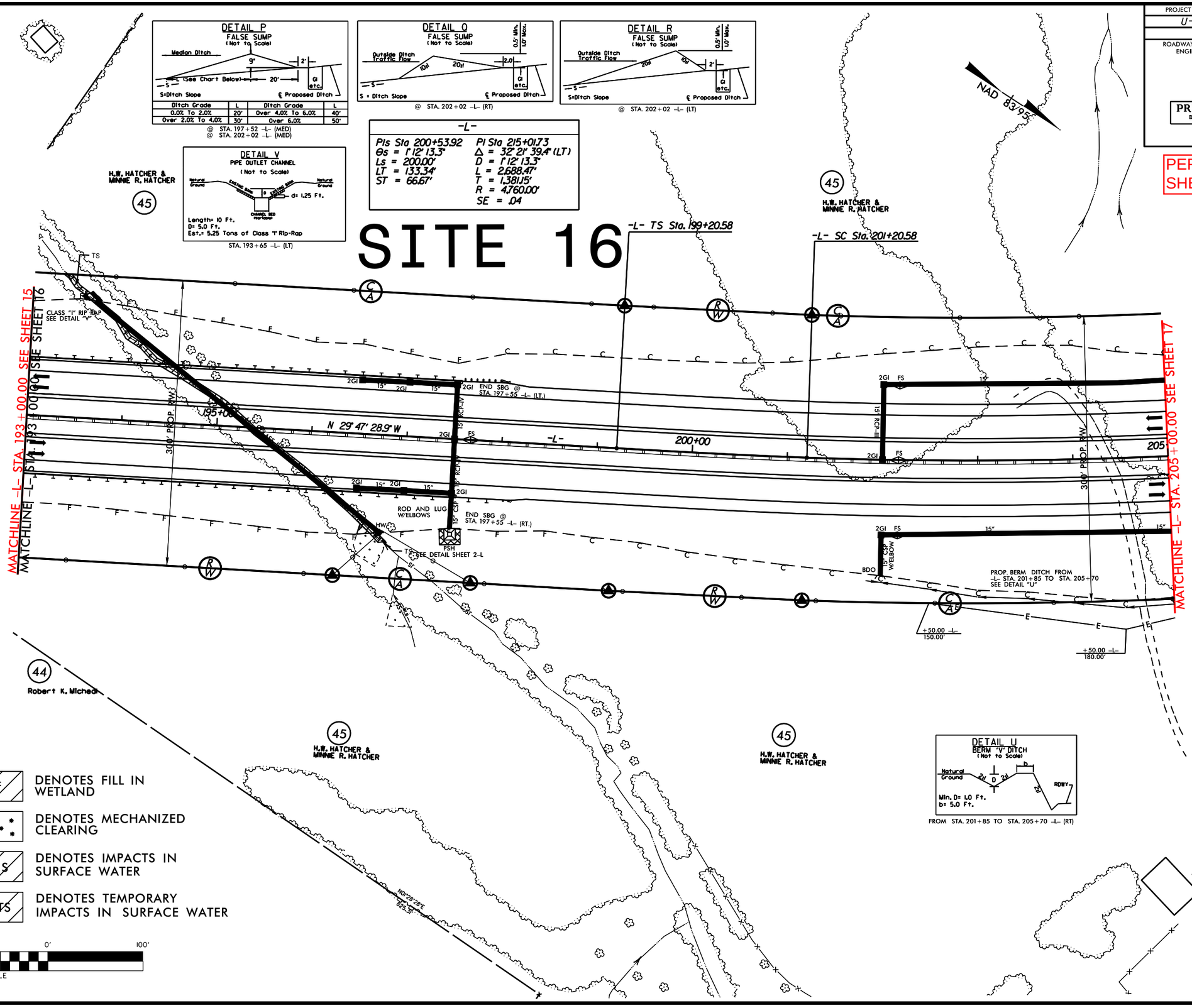
-L-

PIs Sta 200+53.92	PI Sta 215+01.73
Θs = 1°12' 13.3"	Δ = 32° 21' 39.4" (LT)
Ls = 200.00'	D = 1°12' 13.3"
LT = 133.34'	L = 2,688.47'
ST = 66.67'	T = 1,381.15'
	R = 4,760.00'
	SE = .04

DETAIL V
PIPE OUTLET CHANNEL
(Not to Scale)

Length= 10 Ft.
D= 5.0 Ft.
Est.= 5.25 Tons of Class "I" Rip-Rap

STA. 193+65 -L- (LT)



DETAIL U
BERM 'V' DITCH
(Not to Scale)

Min. D= 1.0 Ft.
b= 5.0 Ft.

FROM STA. 201+85 TO STA. 205+70 -L- (RT)

F F — DENOTES FILL IN WETLAND

DENOTES MECHANIZED CLEARING

S S — DENOTES IMPACTS IN SURFACE WATER

TS TS — DENOTES TEMPORARY IMPACTS IN SURFACE WATER

100' 0' 100'
GRAPHIC SCALE

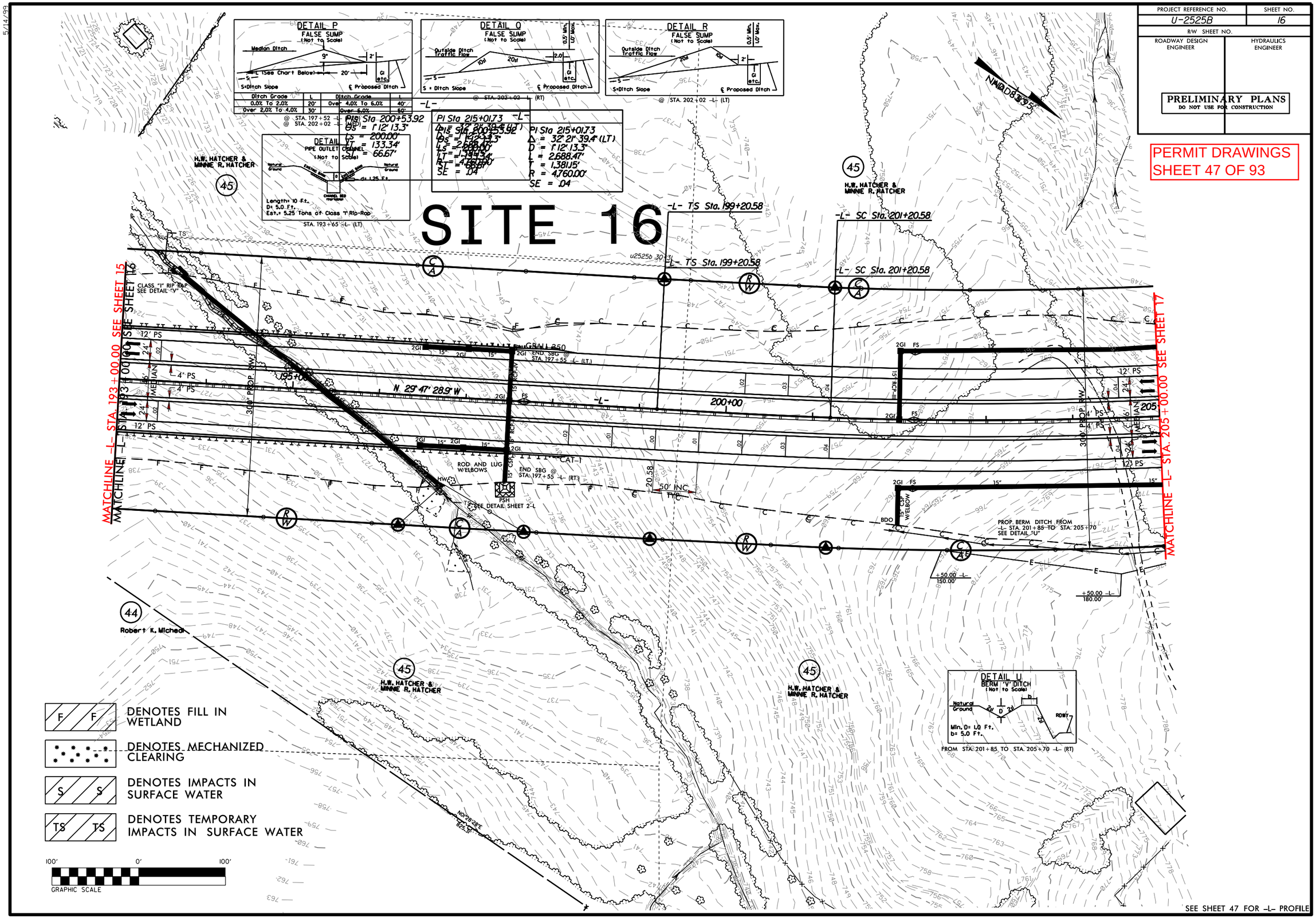
SEE SHEET 47 FOR -L- PROFILE

5/14/99

PROJECT REFERENCE NO.	SHEET NO.
U-2525B	16
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

PERMIT DRAWINGS
SHEET 47 OF 93



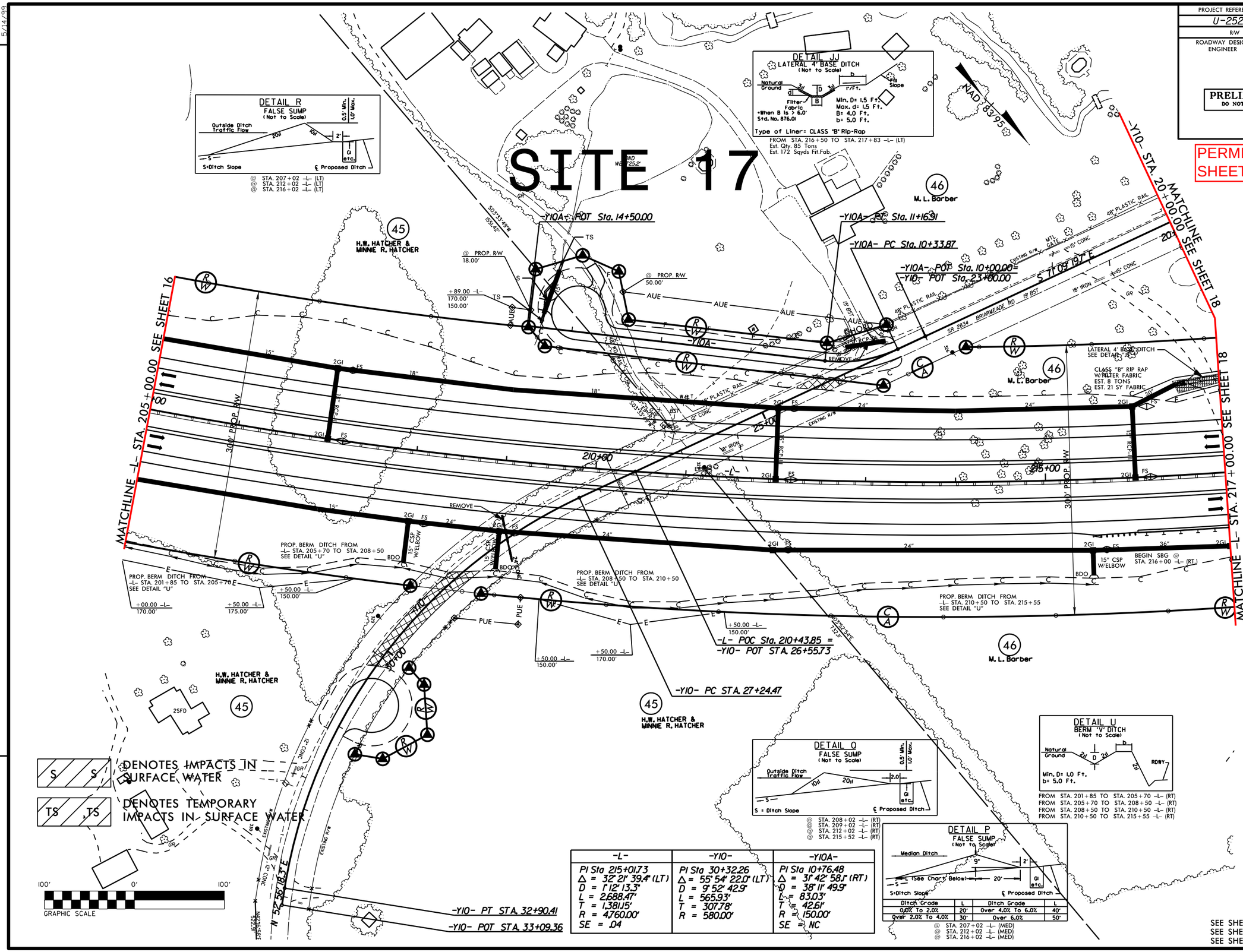
SEE SHEET 47 FOR -L- PROFILE

PROJECT REFERENCE NO.	SHEET NO.
U-2525B	17
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

PERMIT DRAWINGS
SHEET 48 OF 93

SITE 17



Ditch Grade	L	Ditch Grade	L
0.0% To 2.0%	20'	Over 4.0% To 6.0%	40'
Over 2.0% To 4.0%	30'	Over 6.0%	50'

-L-	-Y10-	-Y10A-
PI Sta 215+01.73	PI Sta 30+32.26	PI Sta 10+76.48
Δ = 32° 21' 39.4" (LT)	Δ = 55° 54' 22.0" (LT)	Δ = 31° 42' 58.1" (RT)
D = 1° 12' 13.3"	D = 9° 52' 42.9"	D = 38° 11' 49.9"
L = 2,688.47'	L = 565.93'	L = 83.03'
T = 1,381.15'	T = 307.78'	T = 42.61'
R = 4,760.00'	R = 580.00'	R = 150.00'
SE = .04		SE = NC

SEE SHEET 47 FOR -L- PROFILE
SEE SHEET 62 FOR -Y10- PROFILE
SEE SHEET 62 FOR -Y10A- PROFILE

REVISIONS

5/14/99

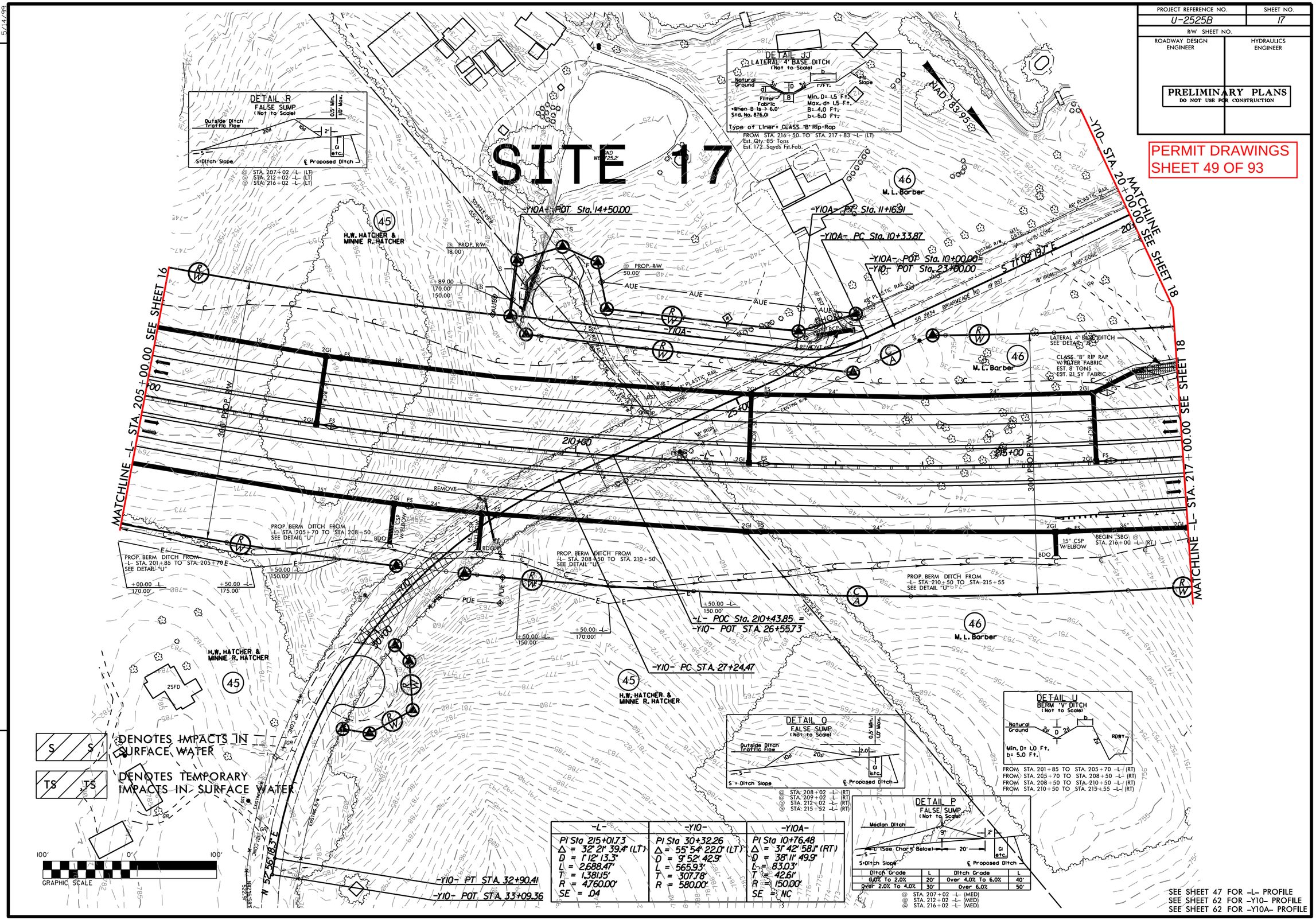
PROJECT REFERENCE NO.	SHEET NO.
U-2525B	17
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

PERMIT DRAWINGS
SHEET 49 OF 93

REVISIONS

5/14/99



-L-	-Y10-	-Y10A-
PI Sta 215+01.73	PI Sta 30+32.26	PI Sta 10+76.48
Δ = 32° 21' 39.4" (LT)	Δ = 55° 54' 22.0" (LT)	Δ = 31° 42' 58.1" (RT)
D = 1° 12' 13.3"	D = 9° 52' 42.9"	D = 38° 11' 49.9"
L = 2,688.47'	L = 565.93'	L = 83.03'
T = 1,381.15'	T = 307.78'	T = 42.61'
R = 4,760.00'	R = 580.00'	R = 150.00'
SE = .04	SE = NC	SE = NC

Ditch Grade	L	Ditch Grade	L
0.0% To 2.0%	20'	Over 4.0% To 6.0%	40'
Over 2.0% To 4.0%	30'	Over 6.0%	50'

SEE SHEET 47 FOR -L- PROFILE
SEE SHEET 62 FOR -Y10- PROFILE
SEE SHEET 62 FOR -Y10A- PROFILE

PROJECT REFERENCE NO.	SHEET NO.
U-2525B	18
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

PERMIT DRAWINGS
SHEET 50 OF 93

F F — DENOTES FILL IN WETLAND

S S — DENOTES IMPACTS IN SURFACE WATER

TS TS — DENOTES TEMPORARY IMPACTS IN SURFACE WATER

DENOTES MECHANIZED CLEARING

P P — DENOTES IMPACTS IN SURFACE WATER (POND)

SITE 18

MATCHLINE -Y10- STA. 20+00.00 SEE SHEET 17

MATCHLINE -Y10- STA. 14+00.00 SEE SHEET 27

MATCHLINE -Y11- STA. 17+00.00 SEE SHEET 27

MATCHLINE -L- STA. 217+00.00 SEE SHEET 17

MATCHLINE -L- STA. 230+00.00 SEE SHEET 19

MATCHLINE -Y11- STA. 26+00.000 SEE SHEET 28

DETAIL KK
LATERAL 6' BASE DITCH
(Not to Scale)

Natural Ground; Filter Fabric; Fill Slope; F/Ft.
*When B is > 6.0' Std. No. 876.01
Min. D= 1.5 Ft.
Max. d= 1.5 Ft.
B= 6.0 Ft.
b= 5.0 Ft.
Type of Liner= CLASS "B" Rip-Rap
FROM STA. 218+33 TO STA. 219+00 -L- (LT) Est. Qty. 85 Tons
Est. 172 Sqyds Fit.Fab.

DETAIL Q
FALSE SUMP
(Not to Scale)

Outside Ditch Traffic Flow; 10H; 20H; 2.0; 0.5' Min.; 1.0' Max.; Gi etc.
S = Ditch Slope; ℄ Proposed Ditch
@ STA. 219+98 -L- (LT)
@ STA. 223+98 -L- (LT)
@ STA. 229+48 -L- (LT)
@ STA. 217+02 -L- (RT)

DETAIL U
BERM "V" DITCH
(Not to Scale)

Natural Ground; RDWY; 2H
Min. D= 1.0 Ft.
b= 5.0 Ft.
FROM STA. 224+57 TO STA. 227+50 -L- (RT)
FROM STA. 223+50 TO STA. 225+50 -L- (LT)
FROM STA. 228+50 TO STA. 230+50 -L- (RT)

DETAIL D
RIP RAP AT EMBANKMENT
(Not to Scale)

Ditch Grade; 5'; 1.5'; 1'
Type of Liner= CLASS "B" Rip-Rap
AT STA. 218+35 -L- (LT) Est. 9 Tons
AT STA. 217+80 -L- (RT) Est. 9 Tons
AT STA. 217+82 -L- (LT) Est. 22 Tons

DETAIL R
FALSE SUMP
(Not to Scale)

Outside Ditch Traffic Flow; 0.5' Min.; 1.0' Max.; 2H; 2'; Gi etc.
S=Ditch Slope; ℄ Proposed Ditch
@ STA. 224+98 -L- (RT)
@ STA. 220+48 -L- (RT)

DETAIL P
FALSE SUMP
(Not to Scale)

Median Ditch; 9'; 2'; L (See Chart Below); 20'; Gi etc.
S=Ditch Slope; ℄ Proposed Ditch

Ditch Grade	L	Ditch Grade	L
0.8% To 2.0%	20'	Over 4.0% To 6.0%	40'
Over 2.0% To 4.0%	30'	Over 6.0%	50'

@ STA. 223+98 -L- (MED)
@ STA. 229+48 -L- (MED)

DETAIL JJ
LATERAL 4' BASE DITCH
(Not to Scale)

Natural Ground; Filter Fabric; Fill Slope; F/Ft.
*When B is > 6.0' Std. No. 876.01
Min. D= 1.5 Ft.
Max. d= 1.5 Ft.
B= 4.0 Ft.
b= 5.0 Ft.
Type of Liner= CLASS "B" Rip-Rap
FROM STA. 216+50 TO STA. 217+83 -L- (LT) Est. Qty. 85 Tons
Est. 172 Sqyds Fit.Fab.

-L-	-Y11-	-Y10-
PI Sta 215+01.73 Δ = 32° 21' 39.4" (LT) D = 1° 12' 13.3" L = 2,688.47' T = 1,381.15' R = 4,760.00' SE = .04	PIs Sta 228+75.73 Θs = 1° 12' 13.3" Ls = 200.00' LT = 133.34' ST = 66.67'	PI Sta 17+92.52 Δ = 20° 42' 51.8" (RT) D = 6° 09' 39.0" L = 336.23' T = 169.97' R = 930.00' SE = .04 RO = SEE PLANS	PI Sta 26+80.11 Δ = 19° 38' 06.2" (LT) D = 6° 09' 39.0" L = 318.71' T = 160.93' R = 930.00' SE = .04 RO = 96'	PI Sta 13+38.21 Δ = 5° 31' 37.6" (RT) D = 1° 30' 28.0" L = 366.57' T = 183.43' R = 3,800.00'

GRAPHIC SCALE 100' 0' 100'

NOTE: MCF – MODIFIED CONCRETE FLUME

NOTE: SEE CROSS-SECTIONS AND ROADWAY STANDARD DRAWINGS, STD. NO. 862.01, SHEET 1 FOR SPECIAL MEDIAN GRADING.

SEE SHEET 2-N FOR BRIDGE SKETCH
SEE SHEET 48 FOR -L- PROFILE
SEE SHEET 62 FOR -Y10- PROFILE
SEE SHEET 63 FOR -Y11- PROFILE
SEE SHEETS C-1 THRU C-?? FOR CULVERT PLANS
SEE SHEETS S-1 THRU S-?? FOR STRUCTURE PLANS

REVISIONS

5/14/99

PROJECT REFERENCE NO.	SHEET NO.
U-2525B	18
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

PERMIT DRAWINGS
SHEET 51 OF 93

F F — DENOTES FILL IN WETLAND

S S — DENOTES IMPACTS IN SURFACE WATER

TS TS — DENOTES TEMPORARY IMPACTS IN SURFACE WATER

DENOTES MECHANIZED CLEARING

P — DENOTES IMPACTS IN SURFACE WATER (POND)

SITE 18

MATCHLINE -Y10- STA. 20+00.00 SEE SHEET 17

MATCHLINE -Y10- STA. 14+00.00 SEE SHEET 27

MATCHLINE -Y11- STA. 17+00.00 SEE SHEET 27

MATCHLINE -L- STA. 217+00.00 SEE SHEET 17

MATCHLINE -L- STA. 230+00.00 SEE SHEET 19

MATCHLINE -Y11- STA. 26+00.000 SEE SHEET 28

DETAIL KK
LATERAL 6' BASE DITCH
(Not to Scale)

Natural Ground; Filter Fabric *When B is > 6.0' Std. No. 876.01; Min. D= 1.5 Ft. Max. d= 1.5 Ft. B= 6.0 Ft. D= 5.0 Ft.; Fill Slope; 2 F/Ft.

Type of Liner= CLASS "B" Rip-Rap
FROM STA. 218+33 TO STA. 219+00 -L- (LT) Est. Qty. 85 Tons Est. 172 Sqyds Fil.Fab.

DETAIL O
FALSE SUMP
(Not to Scale)

Outside Ditch Traffic Flow; 10H; 20H; 2.0; 0.5' Min. 1.0' Max.; S = Ditch Slope; ℄ Proposed Ditch; GI etc.

@ STA. 219+98 -L- (LT)
@ STA. 223+98 -L- (LT)
@ STA. 229+48 -L- (LT)
@ STA. 217+02 -L- (RT)

DETAIL JJ
LATERAL 4' BASE DITCH
(Not to Scale)

Natural Ground; Filter Fabric *When B is > 6.0' Std. No. 876.01; Min. D= 1.5 Ft. Max. d= 1.5 Ft. B= 4.0 Ft. D= 5.0 Ft.; Fill Slope; 2 F/Ft.

Type of Liner= CLASS "B" Rip-Rap
FROM STA. 216+50 TO STA. 217+83 -L- (LT) Est. Qty. 85 Tons Est. 172 Sqyds Fil.Fab.

DETAIL D
RIP RAP AT EMBANKMENT
(Not to Scale)

Ditch Grade; Type of Liner= CLASS "B" Rip-Rap

AT STA. 218+35 -L- (LT) Est. 9 Tons
AT STA. 217+80 -L- (RT) Est. 9 Tons
AT STA. 217+82 -L- (LT) Est. 22 Tons

DETAIL U
BERM "V" DITCH
(Not to Scale)

Natural Ground; Min. D= 1.0 Ft. D= 5.0 Ft.; ROWY

FROM STA. 224+57 TO STA. 227+50 -L- (RT)
FROM STA. 223+50 TO STA. 225+50 -L- (LT)
FROM STA. 228+50 TO STA. 230+50 -L- (RT)

DETAIL R
FALSE SUMP
(Not to Scale)

Outside Ditch Traffic Flow; 20H; 2H; 0.5' Min. 1.0' Max.; S = Ditch Slope; ℄ Proposed Ditch; GI etc.

@ STA. 224+98 -L- (RT)
@ STA. 220+48 -L- (RT)

DETAIL P
FALSE SUMP
(Not to Scale)

Median Ditch; 9'; 2'; S = L (See Chart Below); 20'; S = Ditch Slope; ℄ Proposed Ditch; GI etc.

Ditch Grade	L	Ditch Grade	L
0.8% To 2.0%	20'	Over 4.0% To 6.0%	40'
Over 2.0% To 4.0%	30'	Over 6.0%	50'

@ STA. 223+98 -L- (MED)
@ STA. 229+48 -L- (MED)

-L-		-Y11-	-Y10-
PI Sta 215+01.73	PIs Sta 228+75.73	PI Sta 17+92.52	PI Sta 26+80.11
Δ = 32° 21' 39.4" (LT)	Θs = 1° 12' 13.3"	Δ = 20° 42' 51.8" (RT)	Δ = 19° 38' 06.2" (LT)
D = 1° 12' 13.3"	Ls = 200.00'	D = 6° 09' 39.0"	D = 6° 09' 39.0"
L = 2,688.47'	LT = 133.34'	L = 336.23'	L = 318.71'
T = 1,381.15'	ST = 66.67'	T = 169.97'	T = 160.93'
R = 4,760.00'		R = 930.00'	R = 930.00'
SE = .04		SE = .04	SE = .04
		RO = SEE PLANS	RO = 96'

-Y10-
PI Sta 13+38.21
Δ = 5° 31' 37.6" (RT)
D = 1° 30' 28.0"
L = 366.57'
T = 183.43'
R = 3,800.00'

-L- CS Sta. 228+09.06
-L- POS Sta. 228+23.81=
-Y11- POT Sta. 21+69.08
-Y11- PC Sta. 25+19.18
-Y10- PT STA. 15+21.35
-Y11- PT Sta. 19+58.78

NOTE: SEE CROSS-SECTIONS AND ROADWAY STANDARD DRAWINGS, STD. NO. 862.01, SHEET 1 FOR SPECIAL MEDIAN GRADING.

GRAPHIC SCALE 100' 0' 100'

NOTE: MCF – MODIFIED CONCRETE FLUME

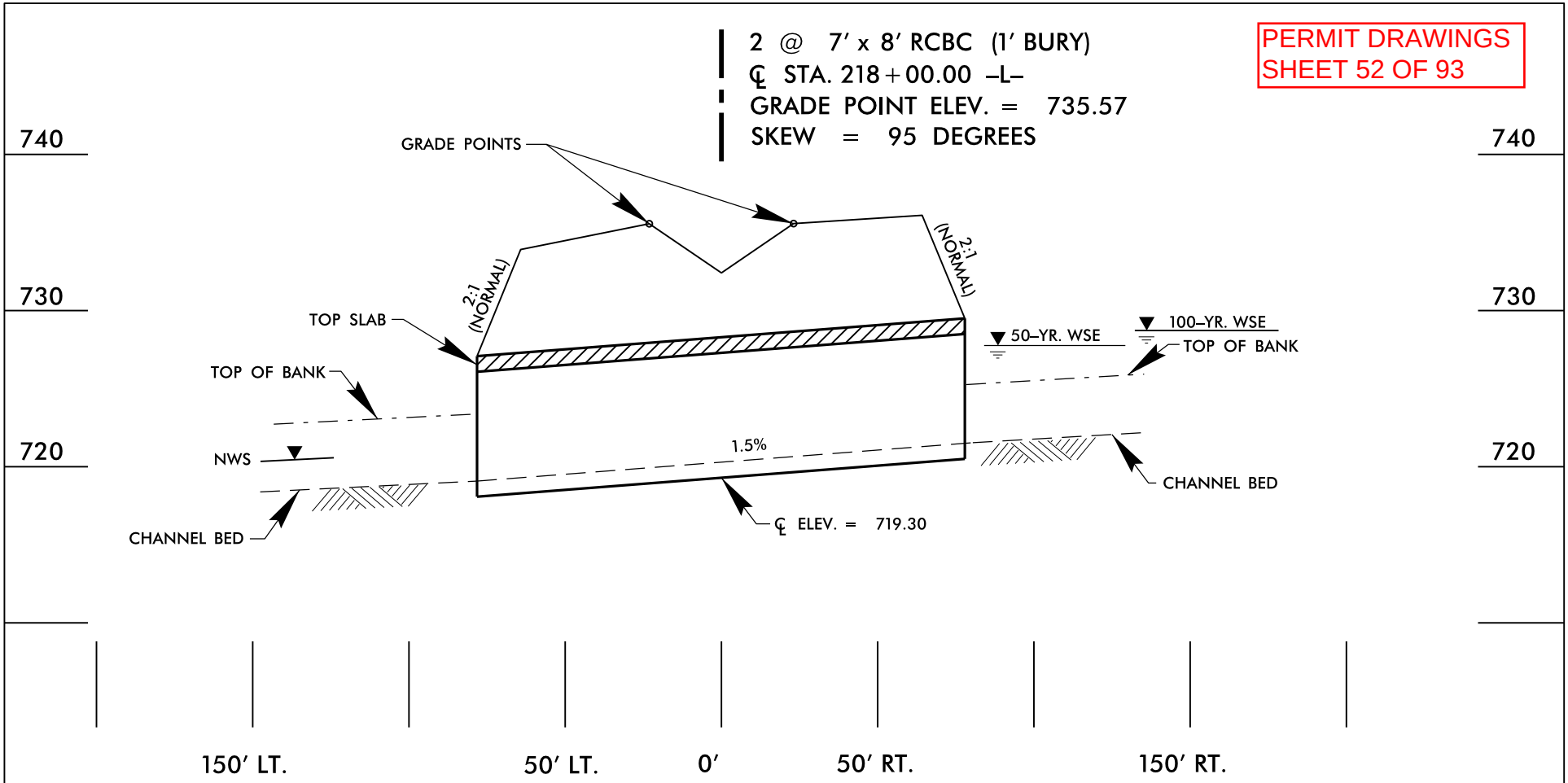
SEE SHEET 2-N FOR BRIDGE SKETCH
SEE SHEET 48 FOR -L- PROFILE
SEE SHEET 62 FOR -Y10- PROFILE
SEE SHEET 63 FOR -Y11- PROFILE
SEE SHEETS C-1 THRU C-?? FOR CULVERT PLANS
SEE SHEETS S-1 THRU S-?? FOR STRUCTURE PLANS

REVISIONS

5/14/99

PERMIT DRAWINGS
SHEET 52 OF 93

2 @ 7′ x 8′ RCBC (1′ BURY)
℄ STA. 218+00.00 –L–
GRADE POINT ELEV. = 735.57
SKEW = 95 DEGREES



PROFILE

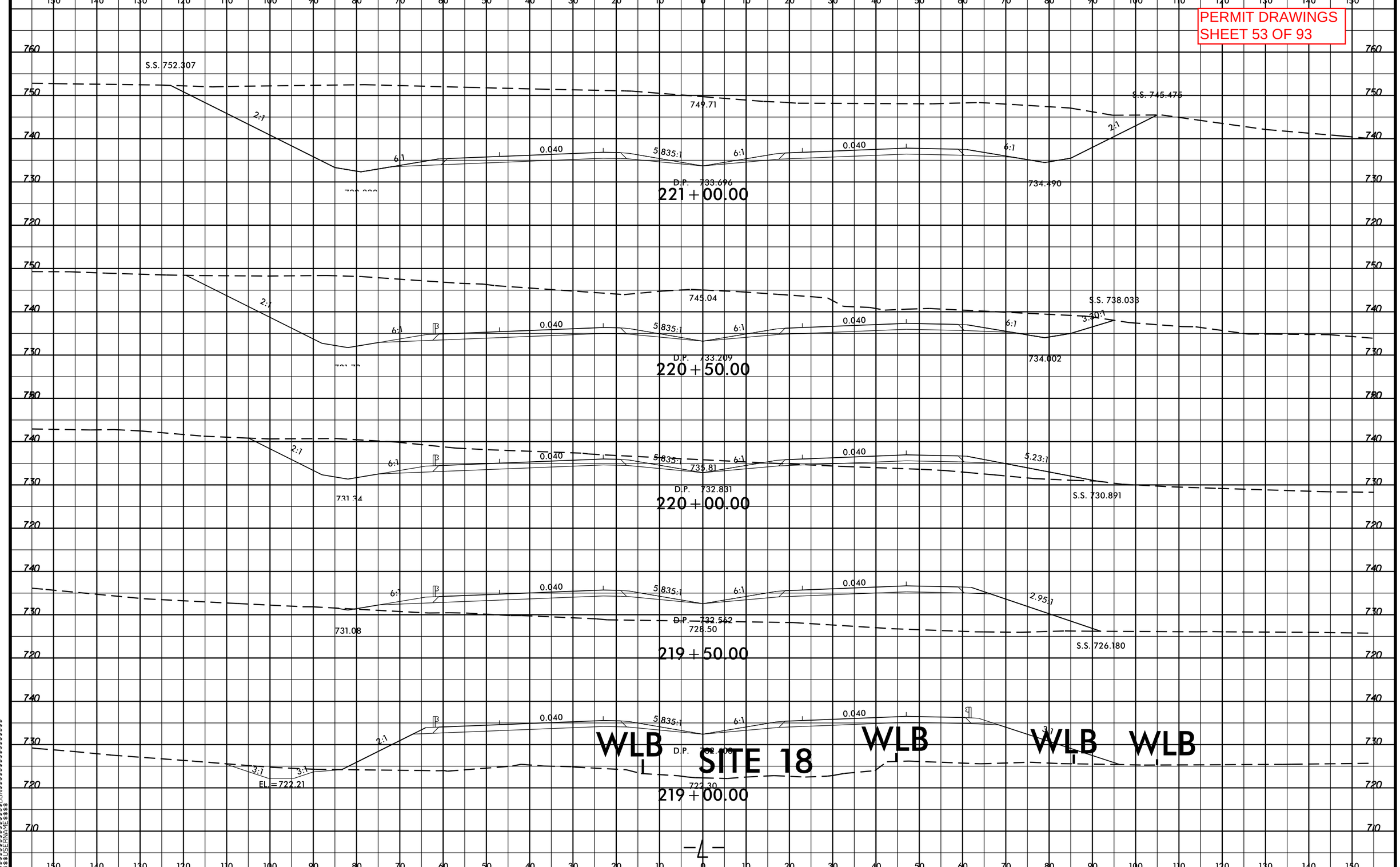
NCDOT

DIVISION OF HIGHWAYS
GUILFORD COUNTY
PROJECT: 34821.1.1 (U-2525B)
GREENSBORO EASTERN LOOP
FROM NORTH OF US 70
RELOCATION TO US 29 NORTH
OF GREENSBORO

SHEET OF 03/08/13

PROJ. REFERENCE NO.	SHEET NO.
U-2525B	X-145

PERMIT DRAWINGS
SHEET 53 OF 93



8/23/99

$$$$$$$SYSTIME$$$$$
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