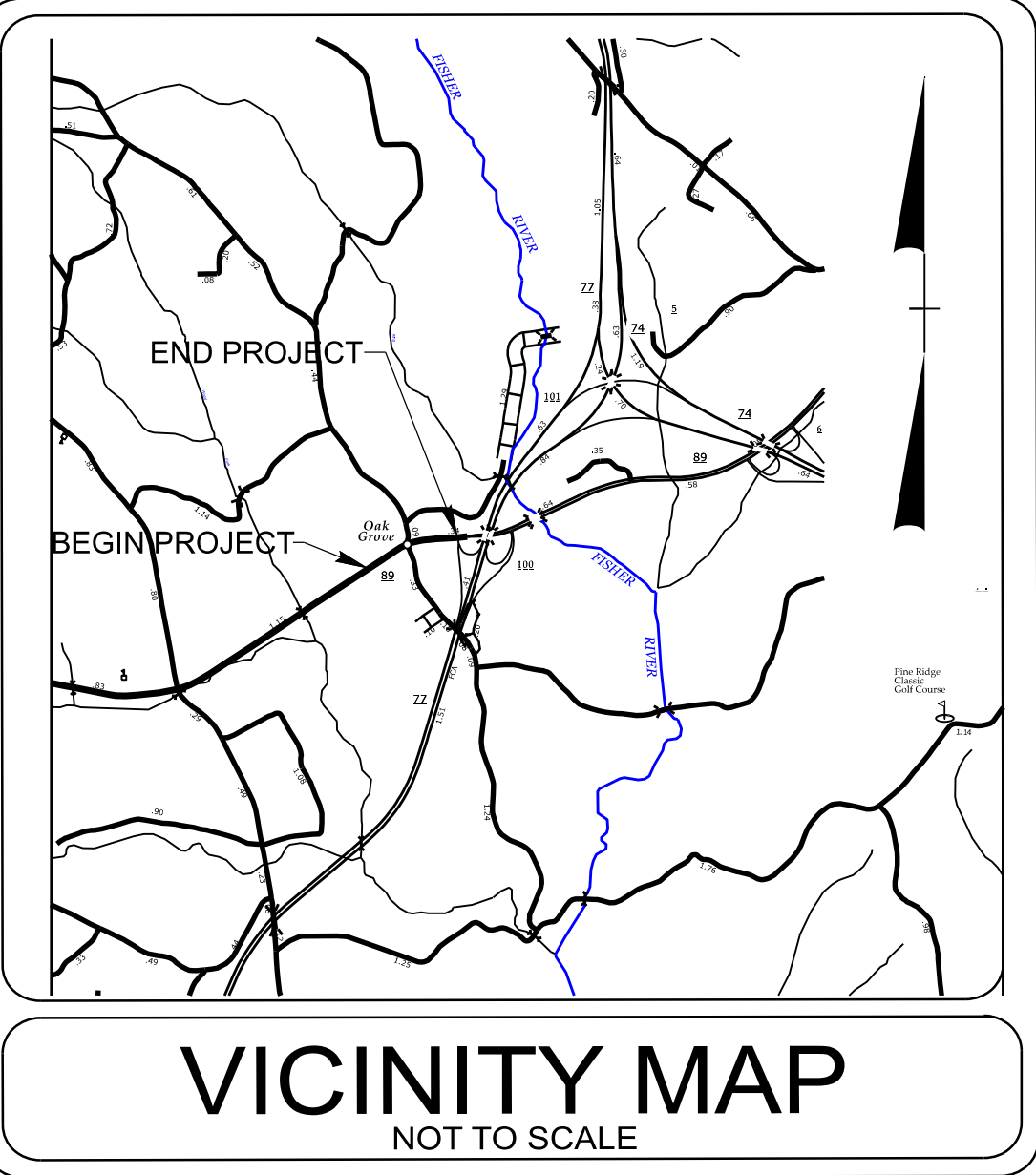


TIP PROJECT: R-5901



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

SURRY COUNTY

LOCATION: INTERSECTION IMPROVEMENTS AT NC 89
(W. PINE ST) AND SR 1397 (ROUND PEAK
CHURCH RD/OAK GROVE CHURCH RD)

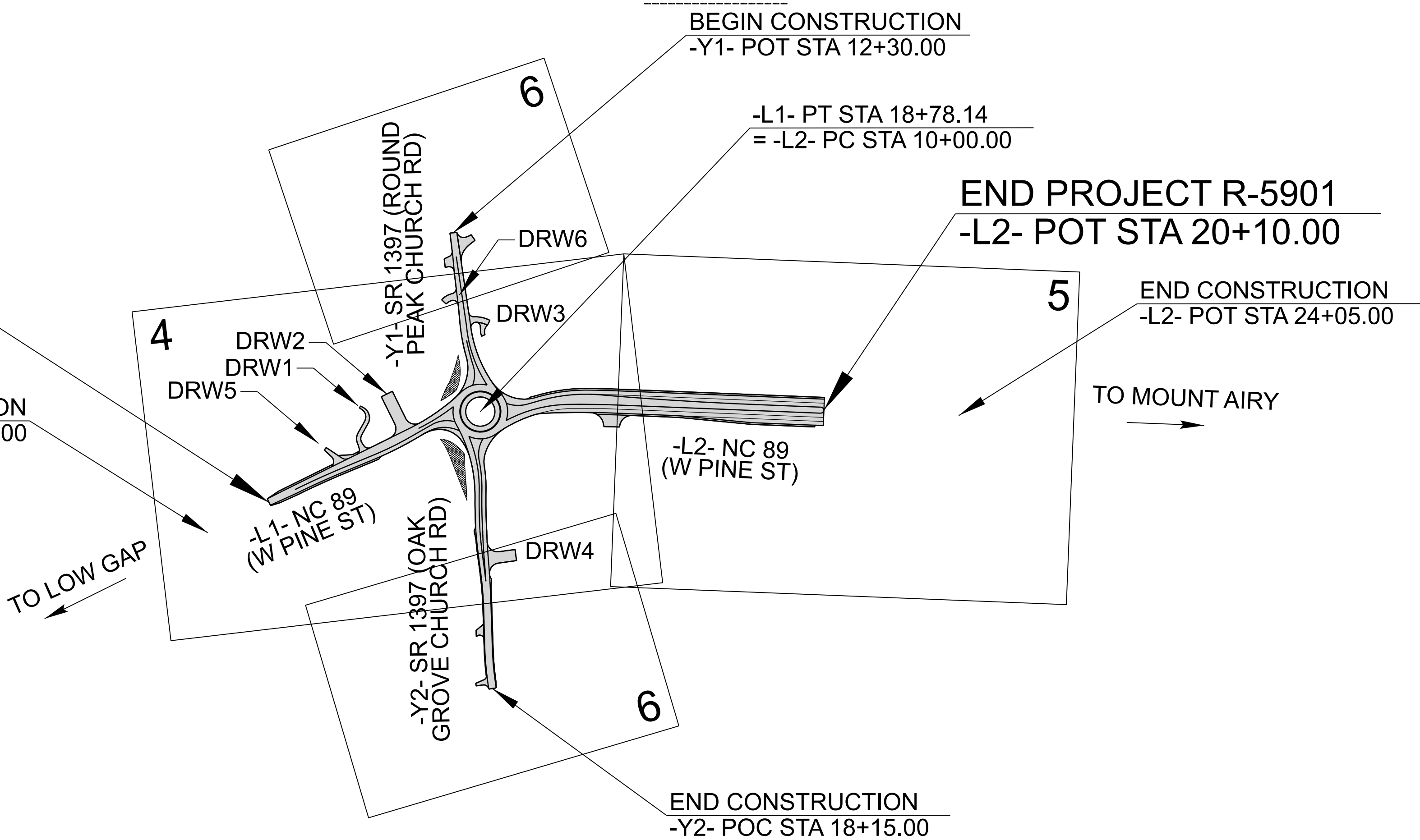
TYPE OF WORK: GRADING, PAVING, DRAINAGE

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5901	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	



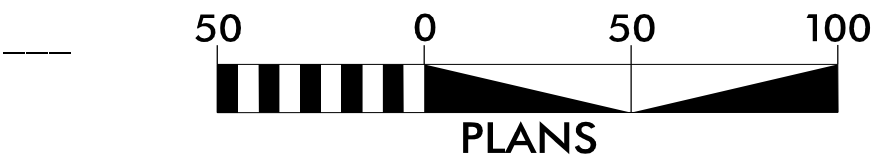
BEGIN PROJECT R-5901
-L1- POT STA 12+00.00

BEGIN CONSTRUCTION
-L1- PC STA 10+00.00



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

GRAPHIC SCALE



THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH
THE APPLICABLE REGULATIONS SET FORTH BY THE NCG-010000
GENERAL CONSTRUCTION PERMIT ISSUED BY THE NORTH
CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION
OF WATER RESOURCES.

Prepared in the Office of:



NC FIRM LICENSE No: C-1506
301 Fayetteville St.,
Suite 1500
Raleigh, NC 27601
(919) 882-7839

Designed by:

JOHN MCNULTY, PE
NAME

4263
LEVEL III CERTIFICATION NO.

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 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

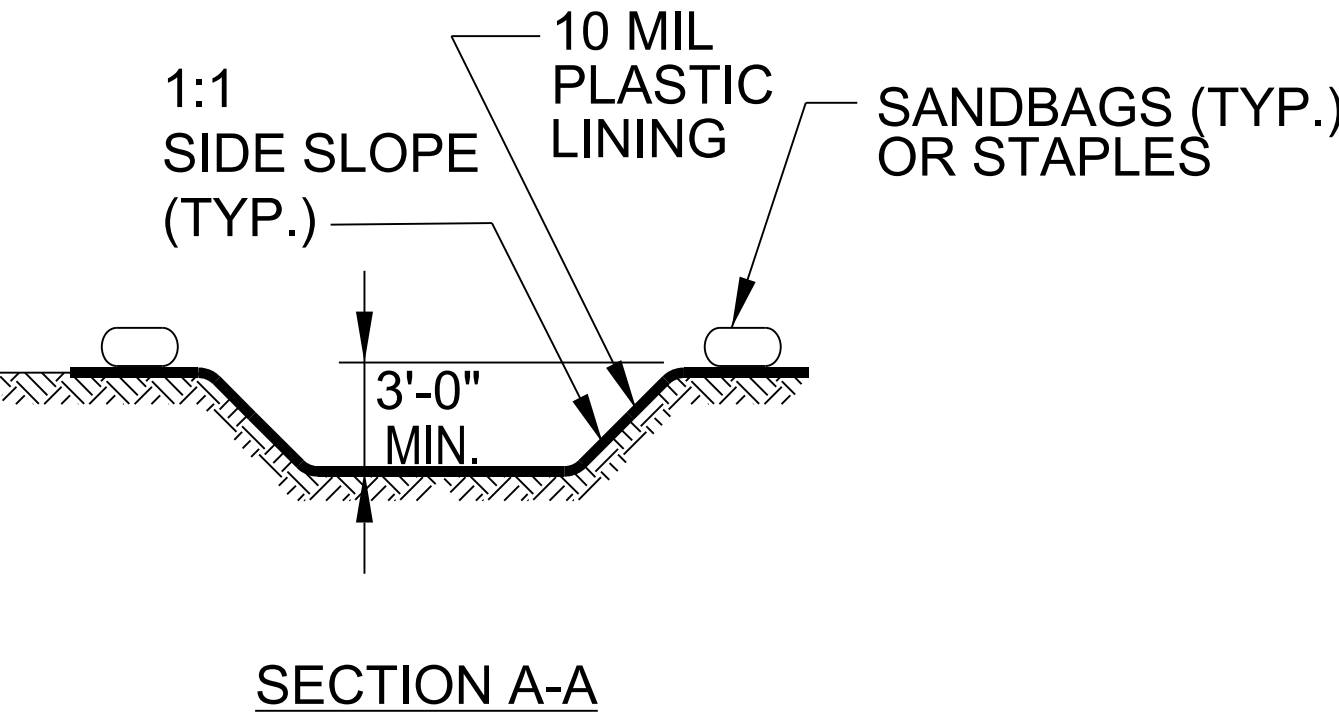
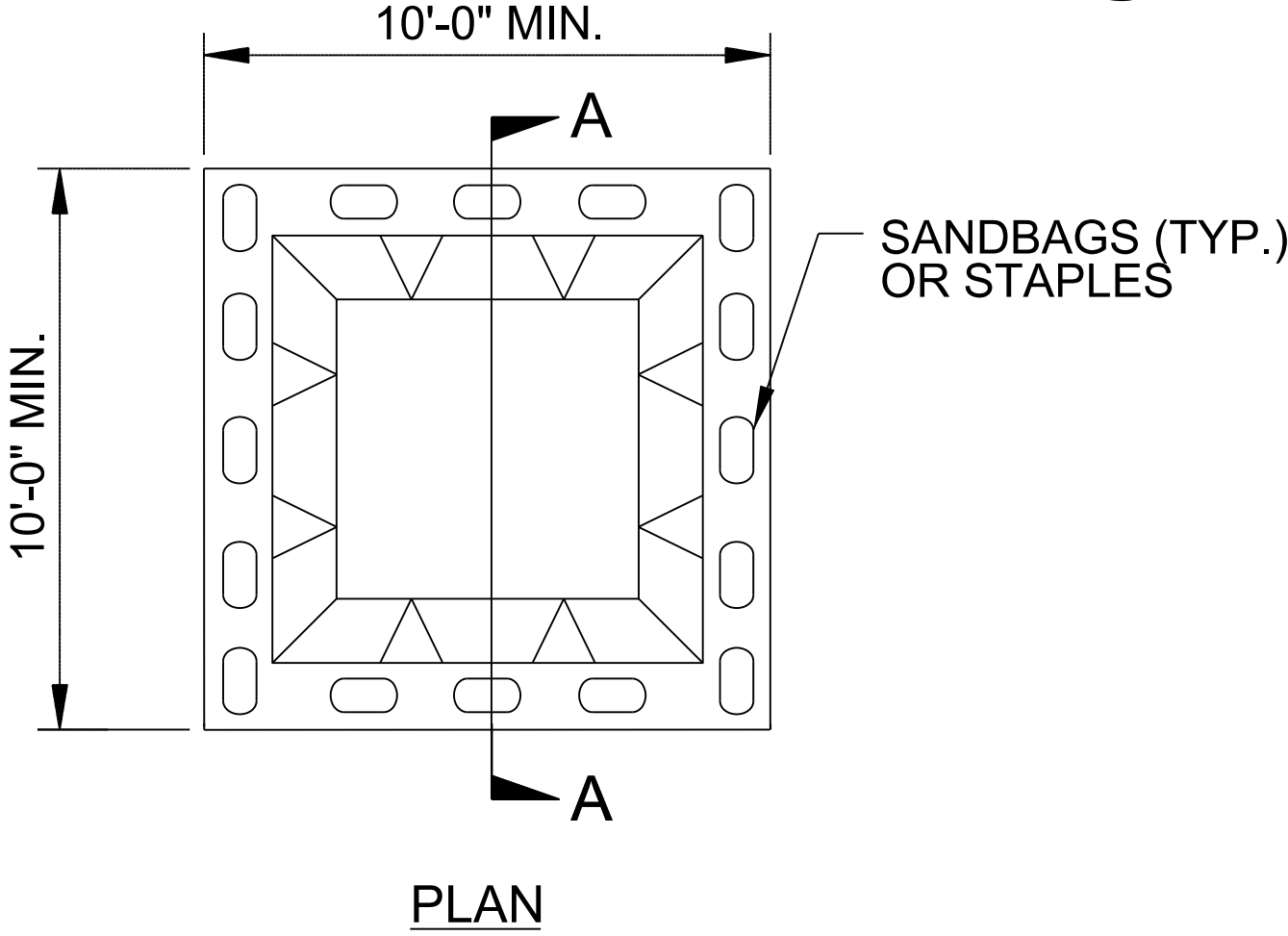
PROJECT REFERENCE NO.	SHEET NO.
R-5901	EC-2
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

EROSION & SEDIMENT CONTROL LEGEND

Std. #	Description	Symbol	Std. #	Description	Symbol
1605.01	Temporary Silt Fence		1633.01	Temporary Rock Silt Check Type A	
1606.01	Special Sediment Control Fence		1633.02	Temporary Rock Silt Check Type B	
1622.01	Temporary Berms and Slope Drains		1633.03	Temporary Rock Silt Check Type A with Excelsior Matting and Flocculant	
1630.02	Silt Basin Type B		1634.01	Temporary Rock Sediment Dam Type A	
1630.03	Temporary Silt Ditch		1634.02	Temporary Rock Sediment Dam Type B	
1630.04	Stilling Basin		1635.01	Rock Pipe Inlet Sediment Trap Type A	
1630.05	Temporary Diversion		1635.02	Rock Pipe Inlet Sediment Trap Type B	
1630.06	Special Stilling Basin		1636.01	Excelsior Wattle Check	
1630.07	Skimmer Basin		1636.01	Excelsior Wattle Check with Flocculant	
1630.08	Tiered Skimmer Basin		1636.01	Coir Fiber Wattle Check	
1630.09	Earthen Dam with Skimmer		1636.01	Coir Fiber Wattle Check with Flocculant	
	Infiltration Basin		1636.02	Silt Fence Excelsior Wattle Break	
	Rock Inlet Sediment Trap:			Silt Fence Coir Fiber Wattle Break	
1632.01	Type A		1636.03	Excelsior Wattle Barrier	
1632.02	Type B		1636.03	Coir Fiber Wattle Barrier	
1632.03	Type C				

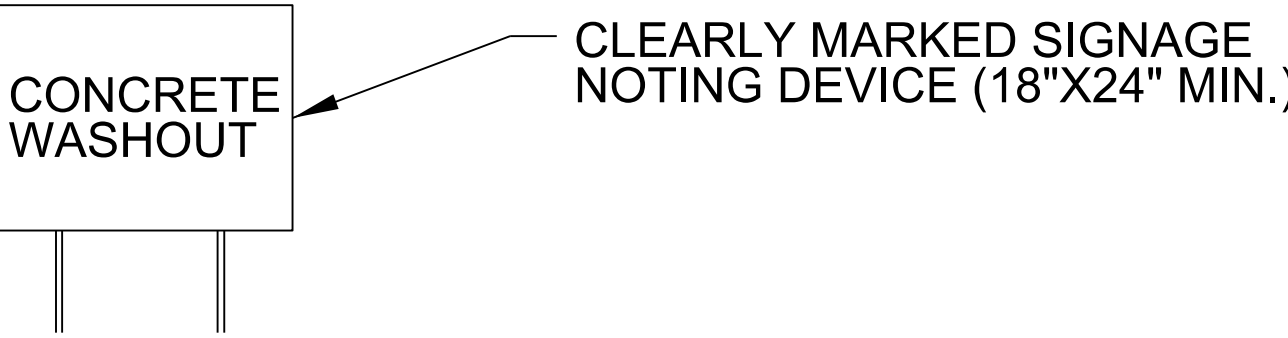
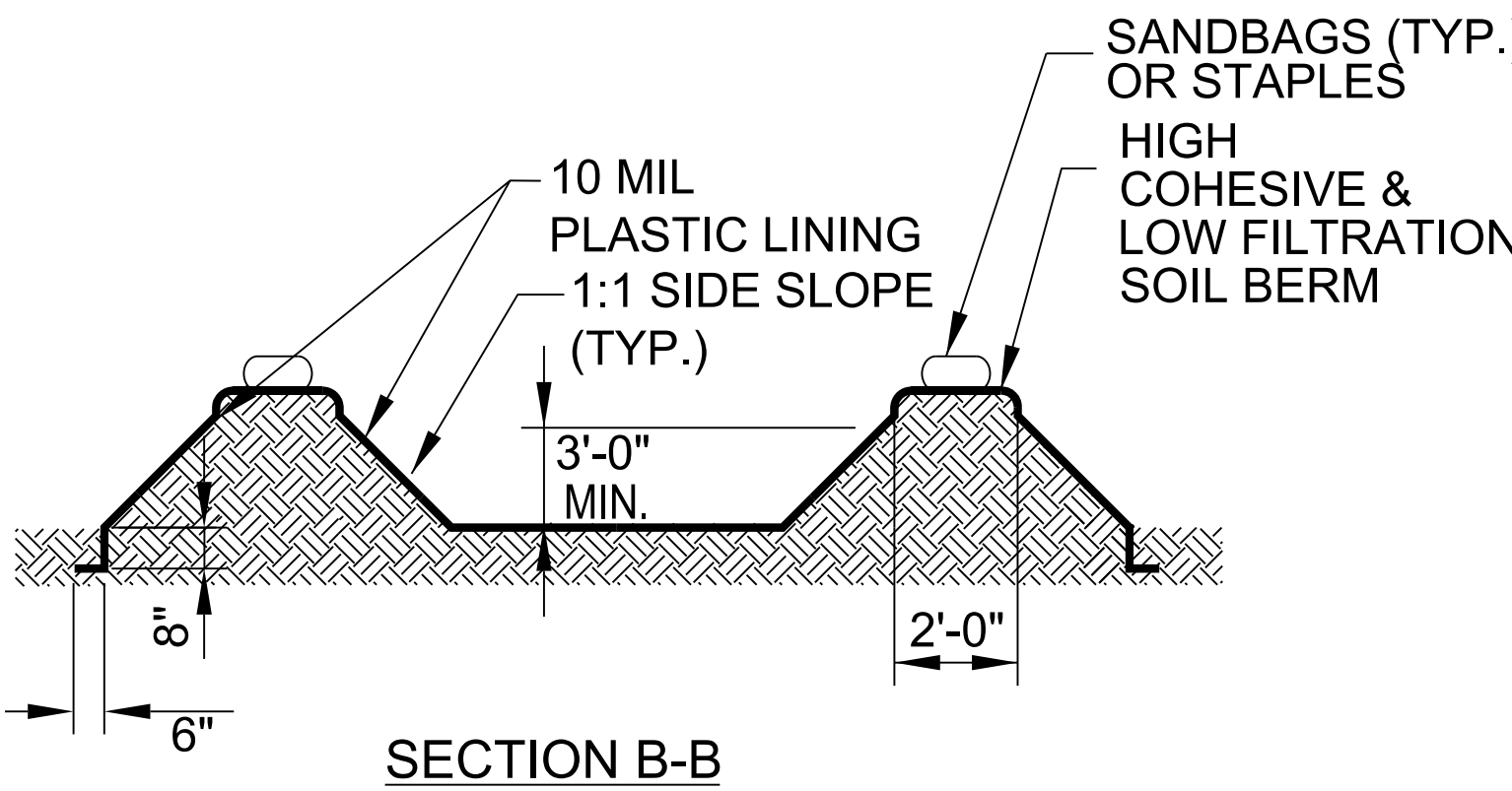
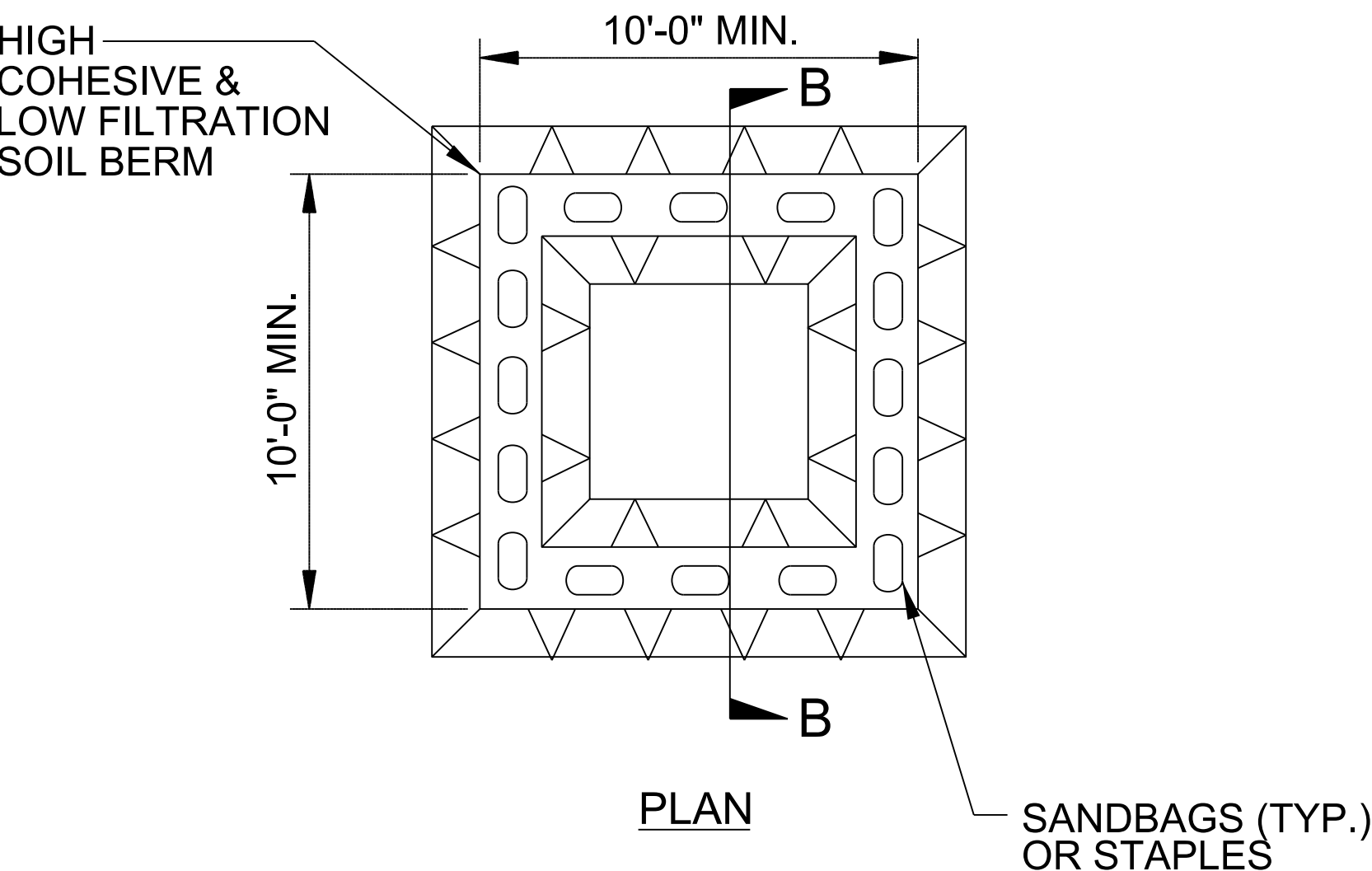
ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER

PROJECT REFERENCE NO.		SHEET NO.	
R-5901		EC-2A	
R/W SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	



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.



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.

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
R-590I	EC-3A
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

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO.		SHEET NO.	
R-590I		EC-3B	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

SOIL STABILIZATION SUMMARY SHEET

MATTING FOR EROSION CONTROL (EXCELSIOR)

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
4	-L1-	13+25	15+00	LT	220
4	-L1-	15+50	16+02	LT	55
4	-L2-	10+84	11+25	RT	45
4	-L2-	13+15	14+66	RT	155
4	-DRW1-	10+40	10+49	LT	10
	SUBTOTAL EXCELSIOR MATTING				485

PERMANENT SOIL REINFORCEMENT MAT (TYPE 2)

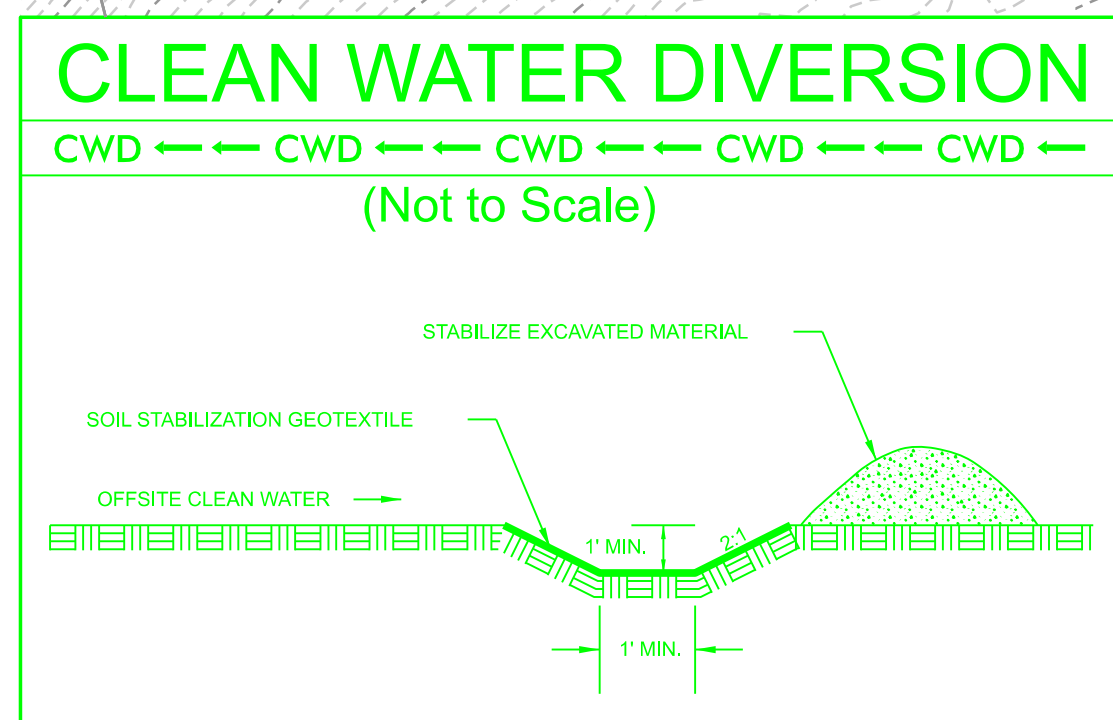
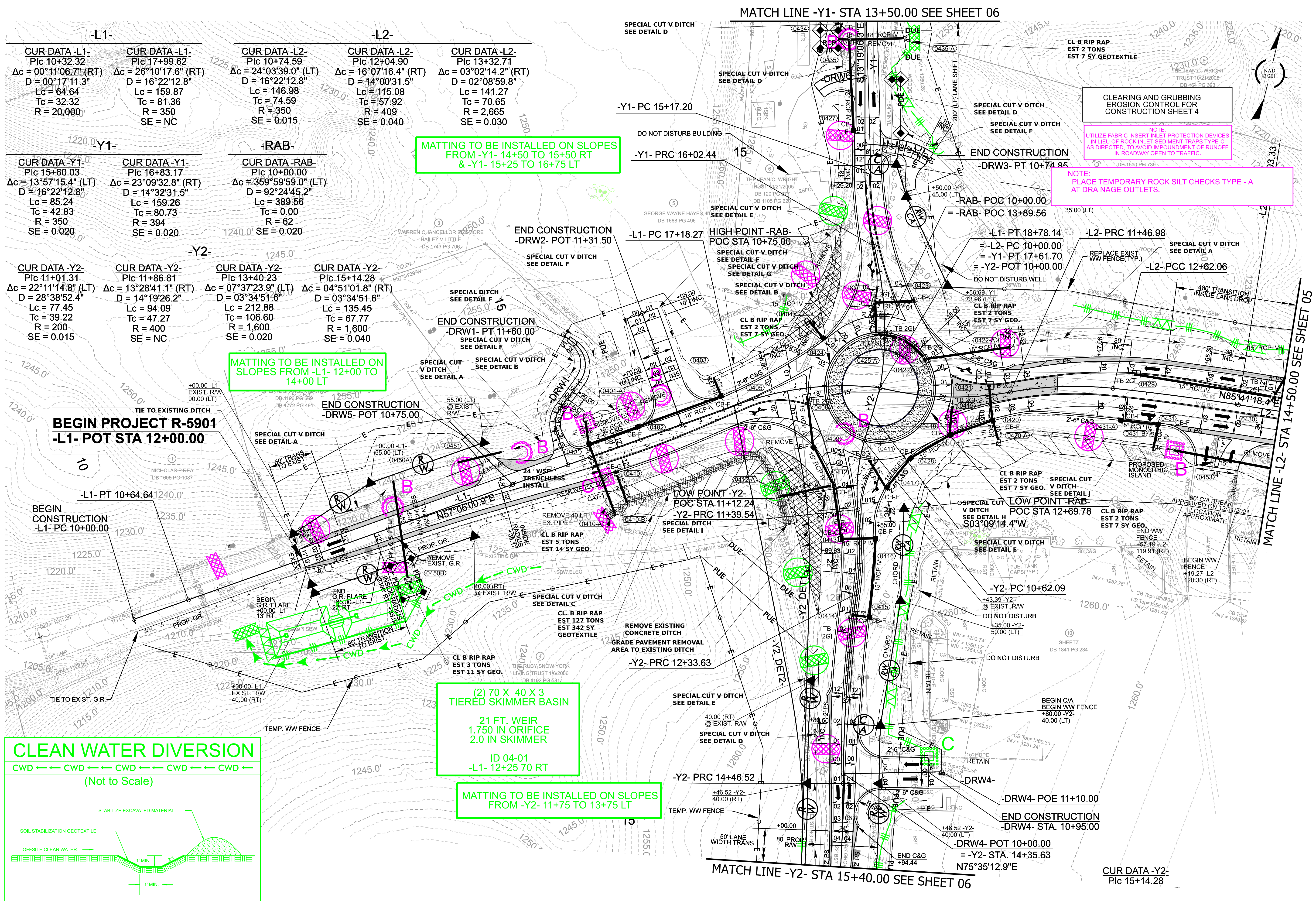
CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
4	-RAB-	11+06 -Y2-	10+84 -L2-	LT	55
			SUBTOTAL		55
		ADDITIONAL PSRM TO BE INSTALLED			0
				TOTAL	55
				SAY	55

MATTING FOR EROSION CONTROL (SLOPES)

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
4	-L1-	12+00	14+00	RT	879
4	-Y1-	14+50	15+50	LT	123
4	-Y1-	15+25	16+75	RT	332
4	-Y2-	11+75	13+75	RT	392
	SUBTOTAL EXCELSIOR MATTING				1726

MATTING FOR EROSION CONTROL (STRAW)

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
4	-L1-	12+00	12+49	LT	50
4	-L1-	12+49	13+00	LT	65
4	-L1-	13+00	13+25	LT	35
4	-L1-	16+92	17+30	LT	40
4	-L2-	11+49	14+05	LT	320
4	-L2-	11+25	13+15	RT	190
6	-Y1-	12+12	12+97	RT	85
6	-Y1-	13+30	13+71	RT	45
4	-Y1-	13+71	13+94	RT	25
4	-Y1-	15+75	16+10	RT	35
4	-Y2-	11+06	11+40	LT	35
4	-Y2-	13+61	15+55	RT	195
6	-Y2-	16+60	17+60	RT	100
6	-Y2-	17+60	18+14	RT	55
4	-DRW1-	11+23	11+60	RT	35
4	-DRW1-	10+49	11+39	LT	80
4	-DRW1-	11+39	11+60	LT	20
4	-DRW2-	10+43	11+25	LT	85
4	-DRW2-	10+38	10+70	RT	35
4	-DRW2-	10+70	11+32	RT	65
4	-DRW3-	10+29	10+56	LT	30
4	-RAB-	17+30 -L1-LT	10+56 -RAB-RT		100
4	-RAB-	10+56 -RAB-RT	16+10 -Y1-RT		80
		SUBTOTAL STRAW MATTING			1805
		SUBTOTAL EXCELSIOR MATTING			485
		SUBTOTAL SLOPE MATTING			1726
	MISCELLANEOUS MATTING TO BE INSTALLED				11030
				TOTAL	15046
				SAY	15050



MATting TO BE INSTALLED ON SLOPES FROM -Y1- 14+50 TO 15+50 RT & -Y1- 15+25 TO 16+75 LT

MATting TO BE INSTALLED ON SLOPES FROM -L1- 12+00 TO 14+00 LT

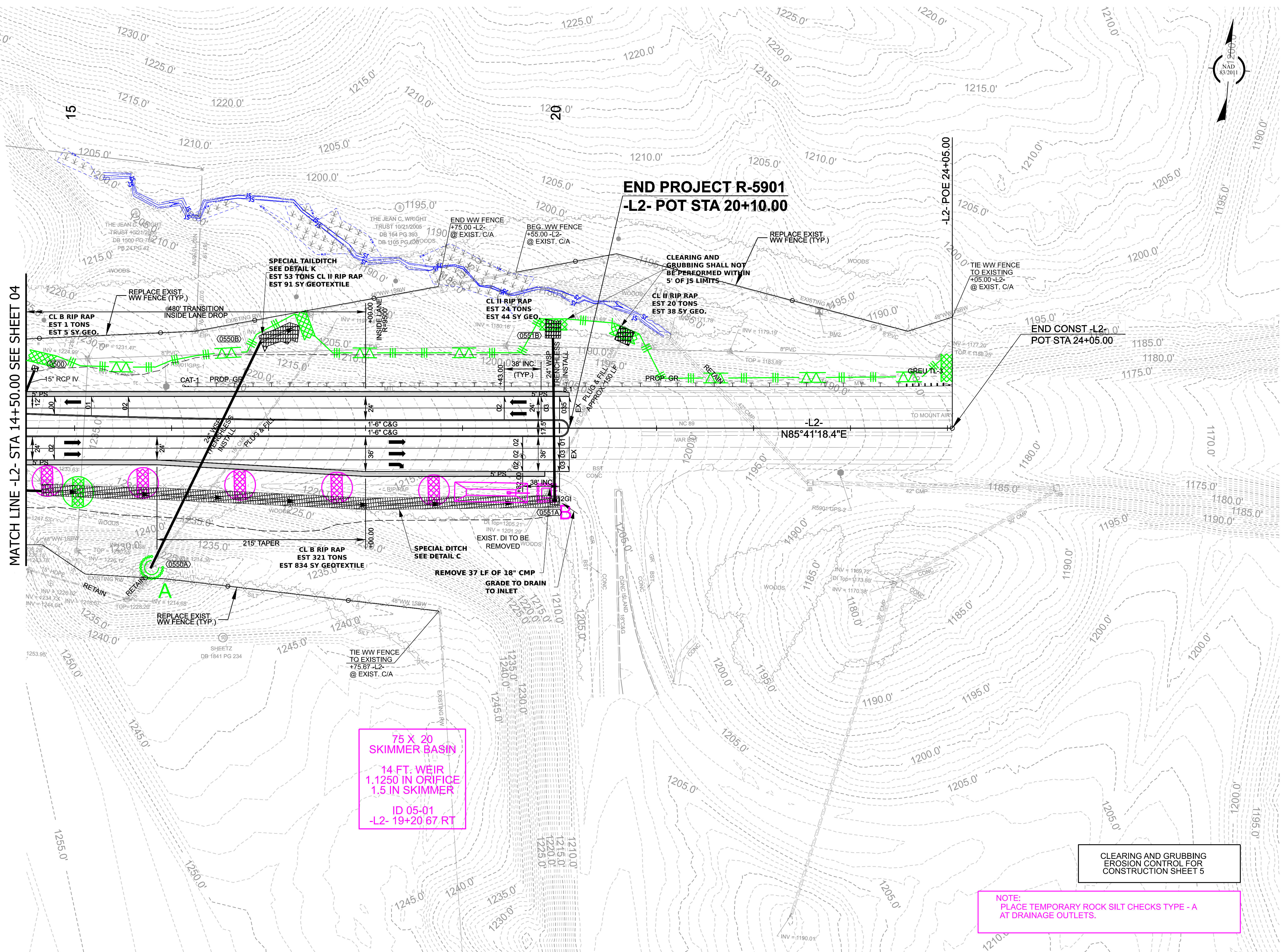
(2) 70 X 40 X 3
TIERED SKIMMER BASIN
21 FT. WEIR
1.750 IN ORIFICE
2.0 IN SKIMMER
ID 04-01
-L1- 12+25 70 RT

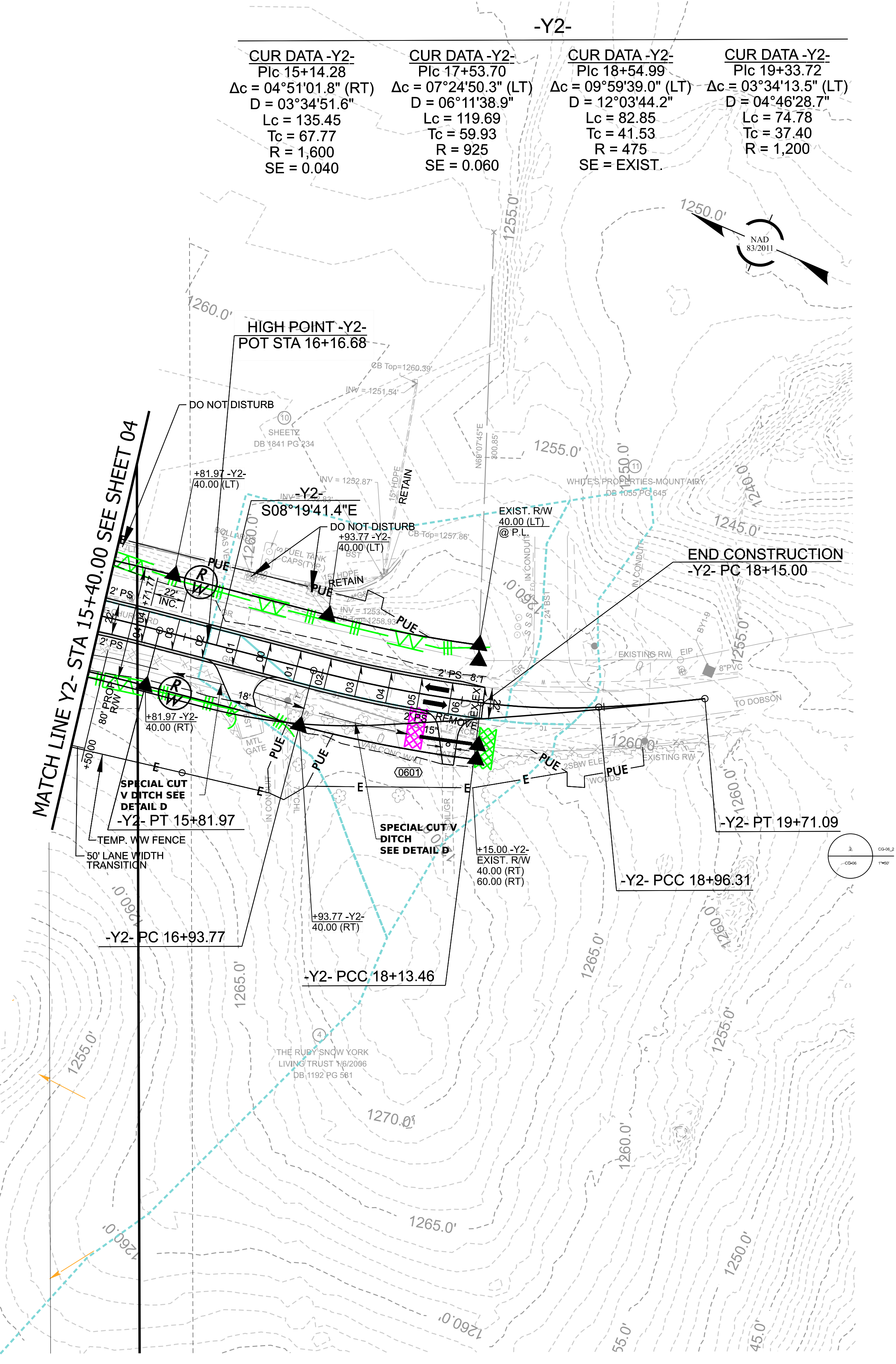
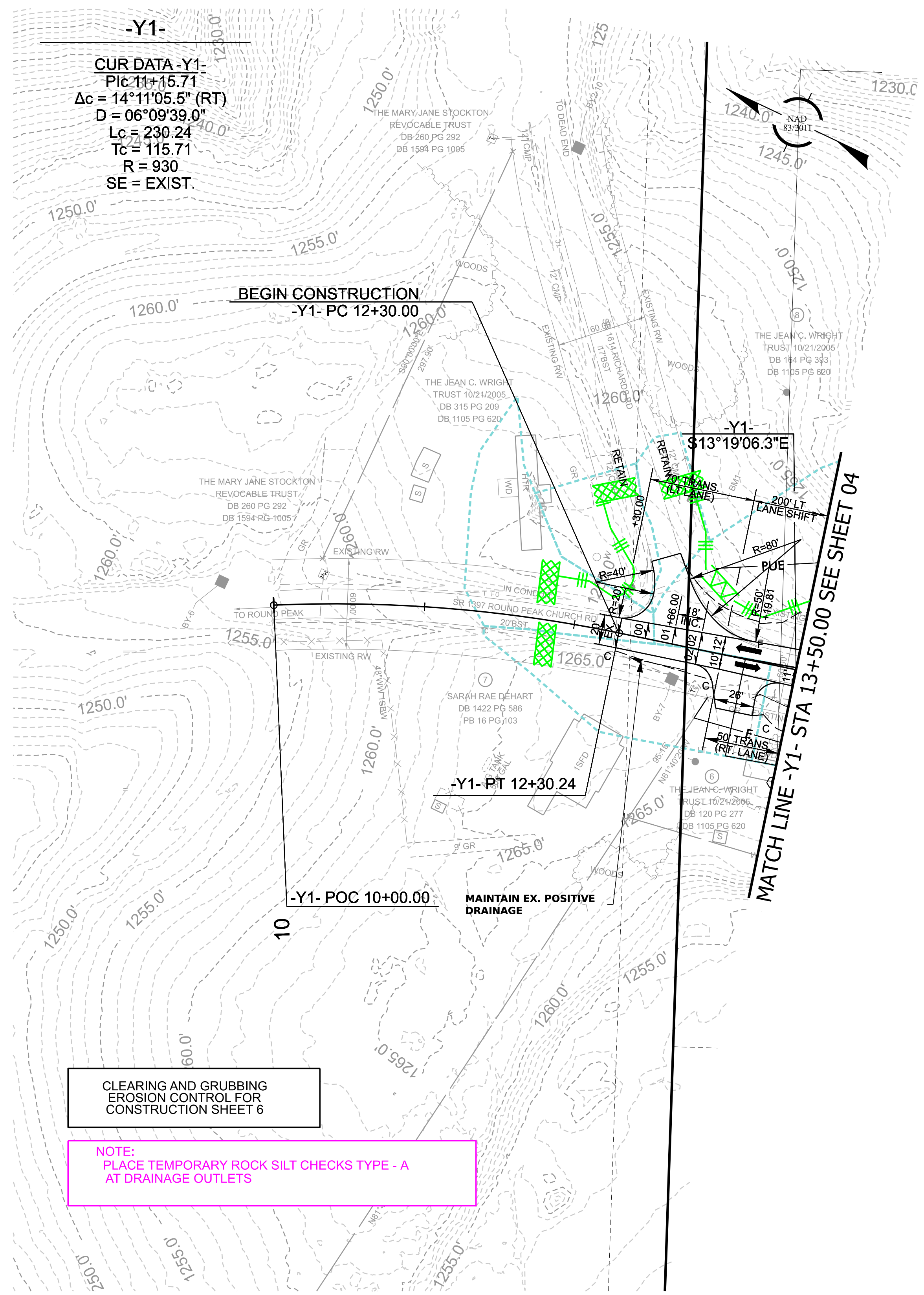
MATting TO BE INSTALLED ON SLOPES FROM -Y2- 11+75 TO 13+75 LT

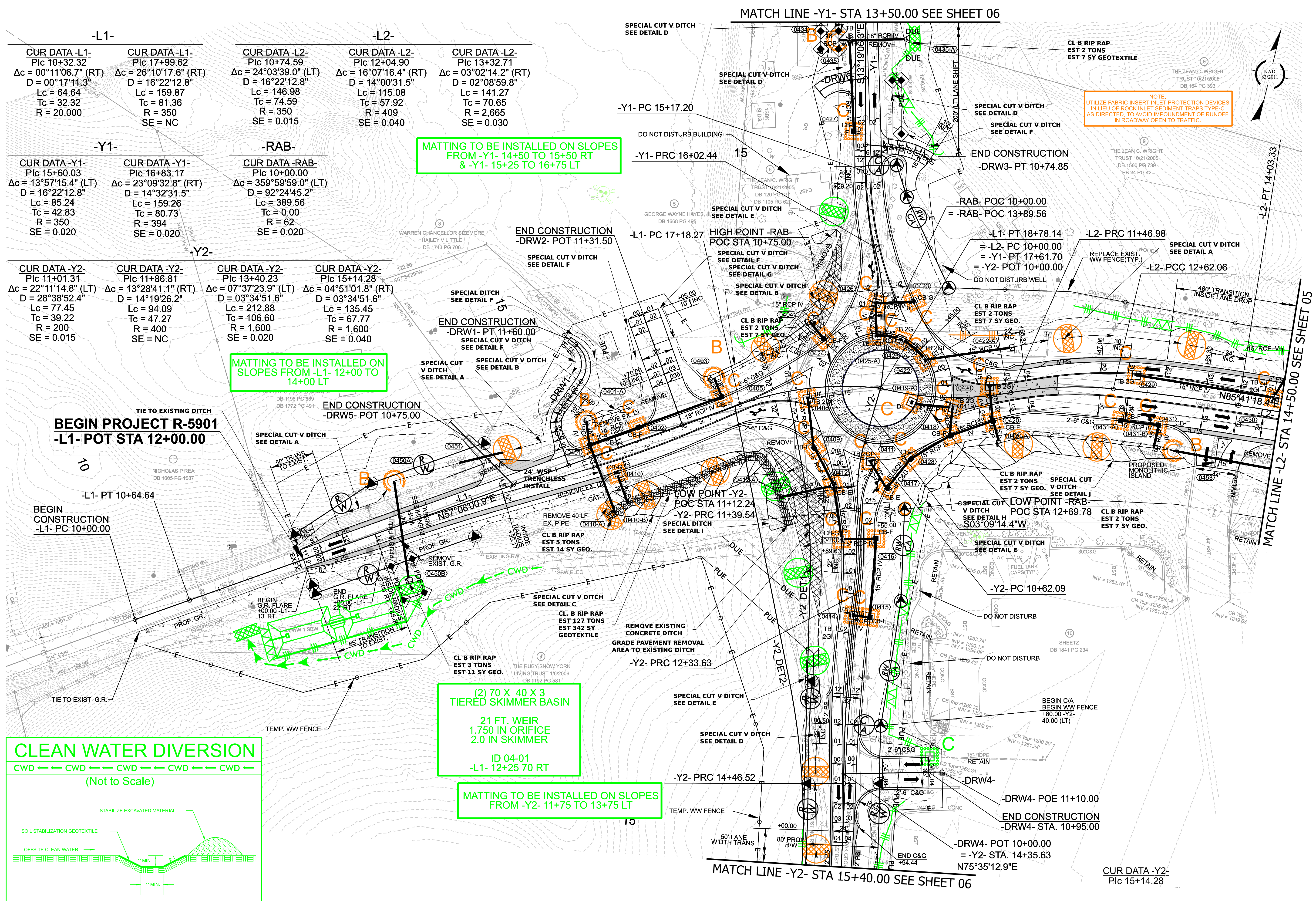
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4

NOTE:
PLACE TEMPORARY ROCK SILT CHECKS TYPE - A
AT DRAINAGE OUTLETS.

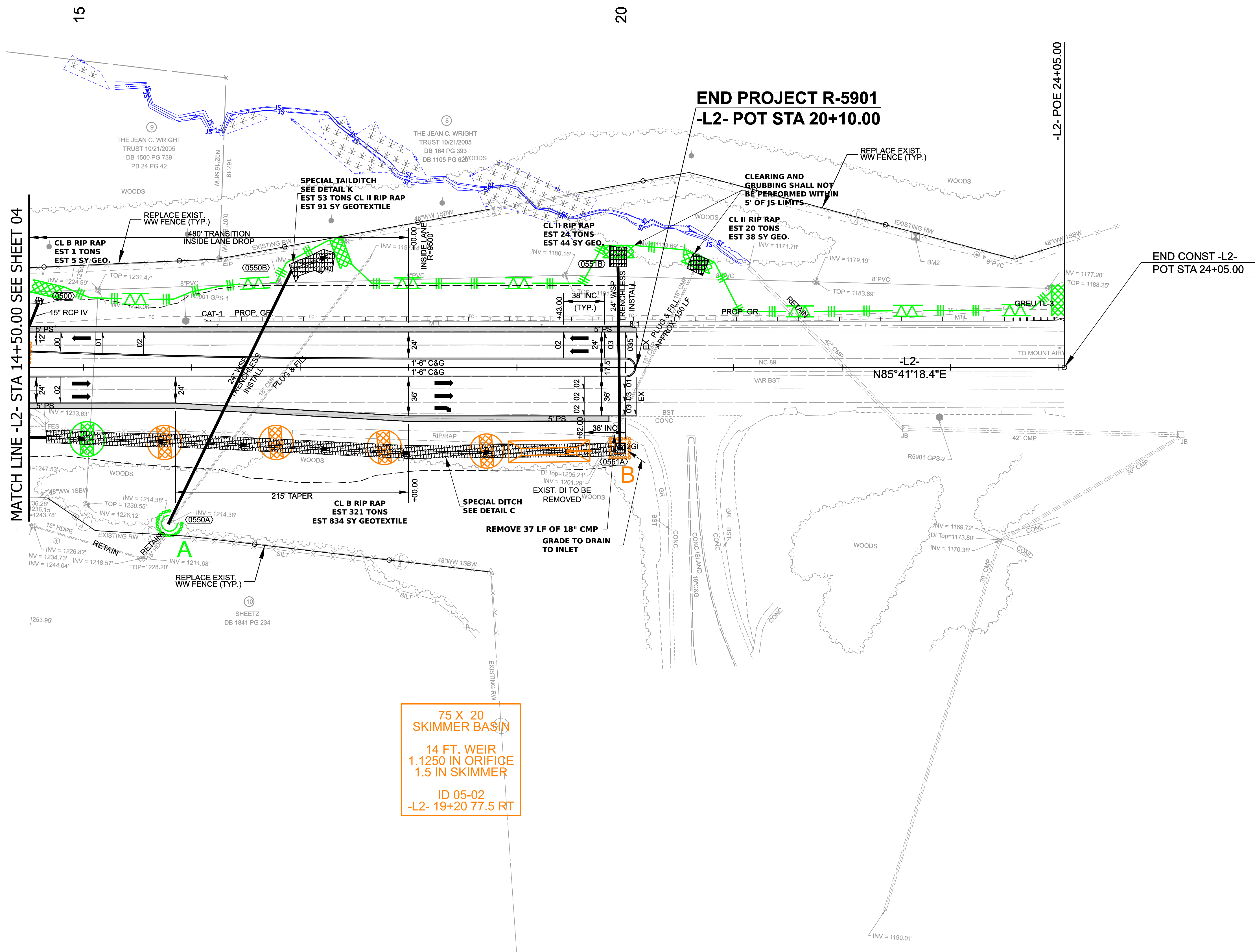
CUR DATA -Y2-
Plc 15+14.28







ROADWAY DESIGN UNIT
ROADWAY DESIGN
ENGINEER



PREPARED BY
KCA
KISINGER CAMPO
& ASSOCIATES

11

SE = EXIST.

