

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-3415	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
	Streambank Reforestation.....	
1630.03	Temporary Silt Ditch.....	
1630.05	Temporary Diversion.....	
1605.01	Temporary Silt Fence.....	
1606.01	Special Sediment Control Fence.....	
1622.01	Temporary Berms and Slope Drains.....	
1630.01	Riser Basin.....	
1630.02	Silt Basin Type B.....	
1633.01	Temporary Rock Silt Check Type-A.....	
	Temporary Rock Silt Check Type-B.....	
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.....	
	Rock Inlet Sediment Trap:	
1632.01	Type A.....	
1632.02	Type B.....	
1632.03	Type C.....	

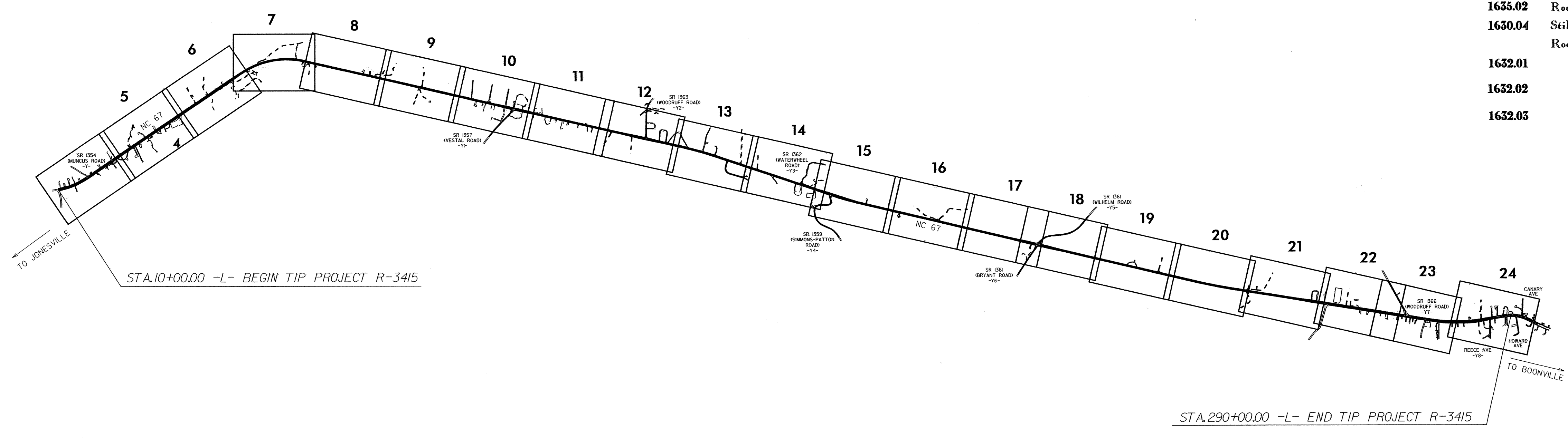
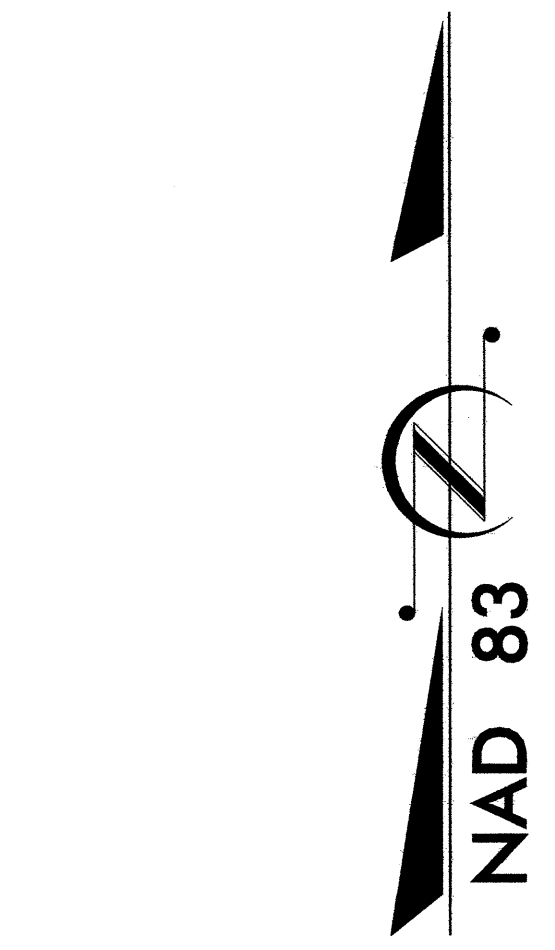
THIS PROJECT CONTAINS EROSION CONTROL PLANS FOR CLEARING AND GRUBBING PHASE OF CONSTRUCTION.

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

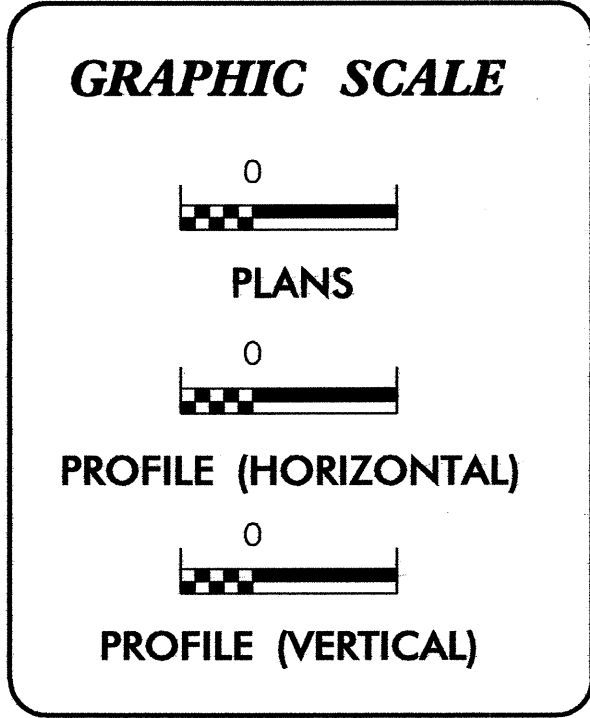
STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS
 PLAN FOR PROPOSED
 HIGHWAY EROSION CONTROL
YADKIN COUNTY

**LOCATION: NC 67 FROM SR 1355 (MESSICK ROAD)
 TO JUST WEST OF BOONVILLE**

TYPE OF WORK: GRADING, PAVING, WIDENING, AND DRAINAGE



TIP PROJECT: R-3415



**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

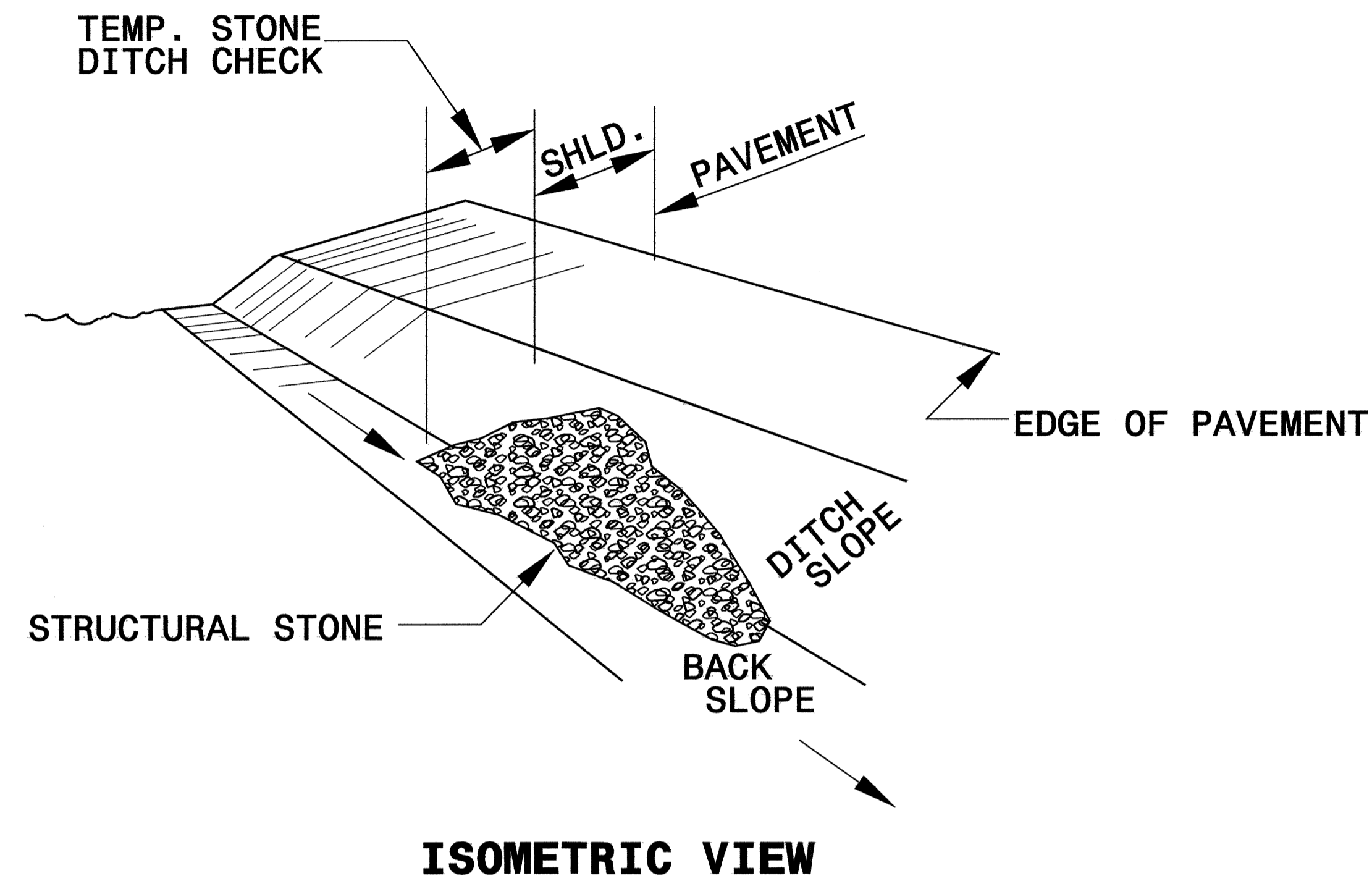
Roadway Standard Drawings

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	1632.01	Rock Inlet Sediment Trap Type A
1622.01	Temporary Berms and Slope Drains	1632.02	Rock Inlet Sediment Trap Type B
1630.02	Silt Basin Type B	1632.03	Rock Inlet Sediment Trap Type C
1630.03	Temporary Silt Ditch	1633.01	Temporary Rock Silt Check Type A
1630.05	Temporary Diversion	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

PROJECT REFERENCE NO. R-3415	SHEET NO. EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

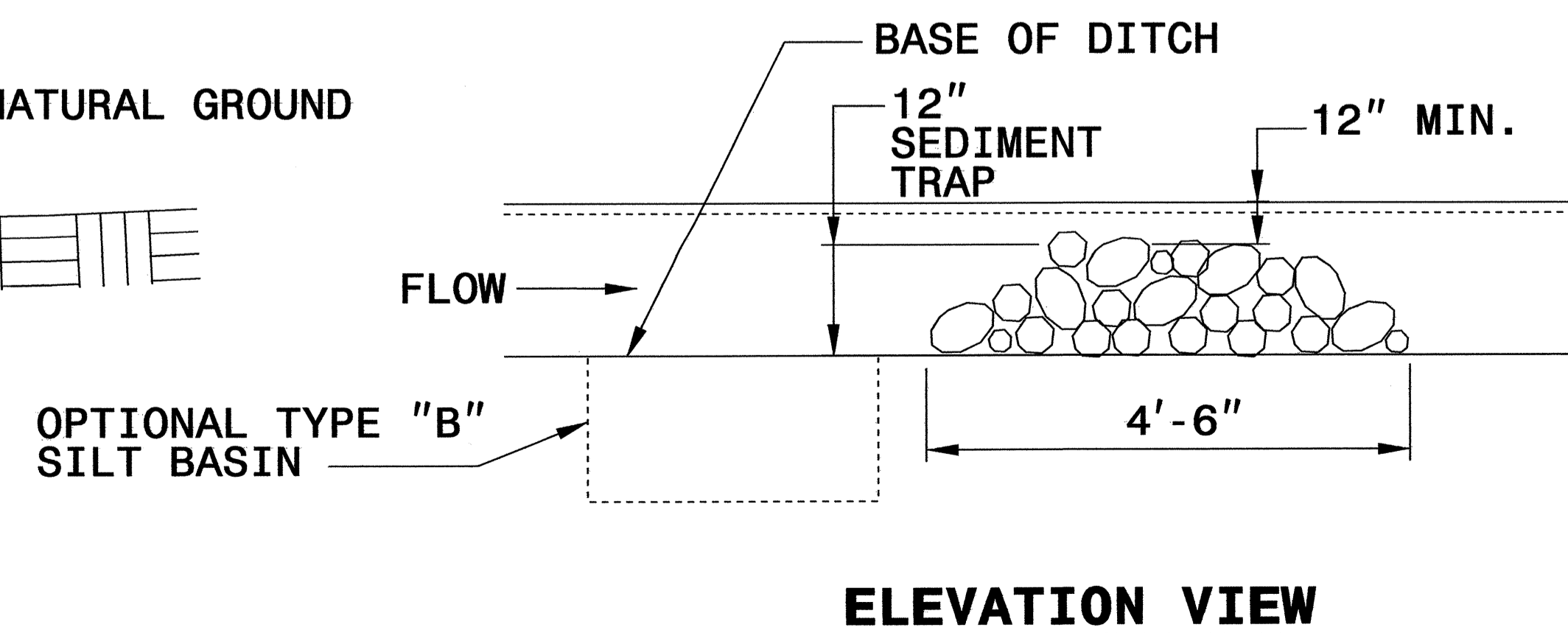
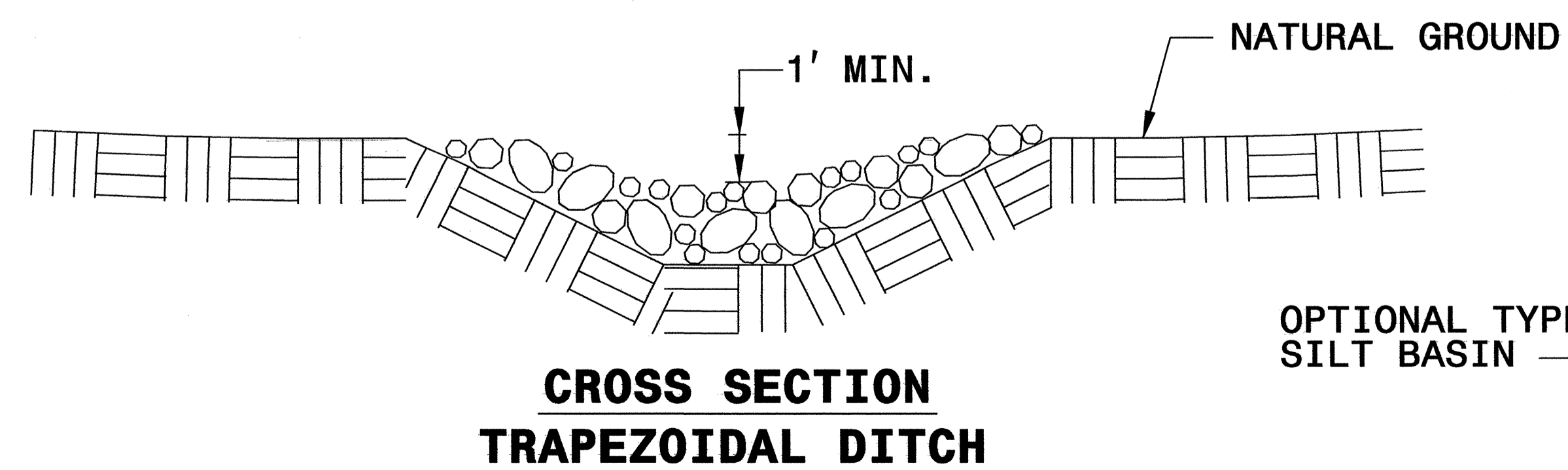
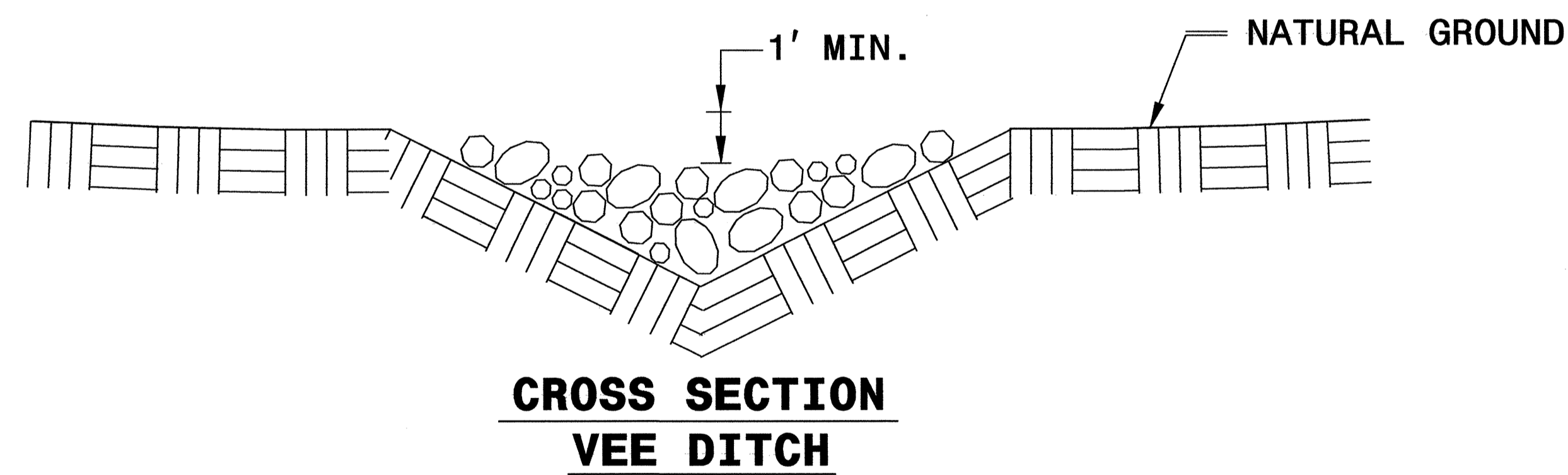
TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL



NOTES:

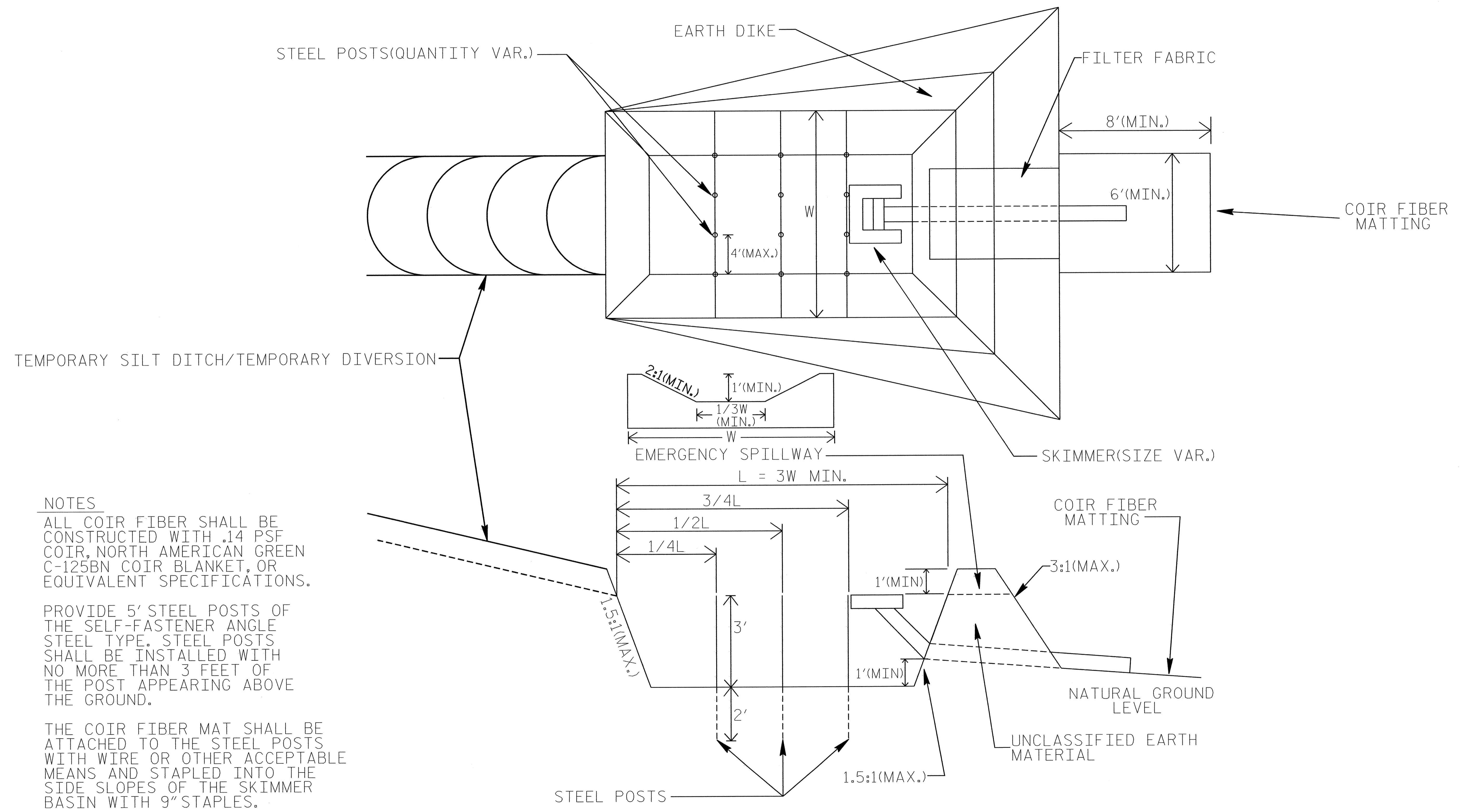
USE CLASS 'B' EROSION CONTROL STONE FOR STRUCTURAL STONE.

THE ENGINEER MAY DIRECT THE OPTION OF CLASS "A" STONE FOR SITES HAVING LESS THAN ONE (1) ACRE DRAINAGE AREA AND A DITCH GRADE LESS THAN 3%.



PROJECT REFERENCE NO. R-3415	SHEET NO. EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SKIMMER BASIN WITH BAFFLES DETAIL



NOTES

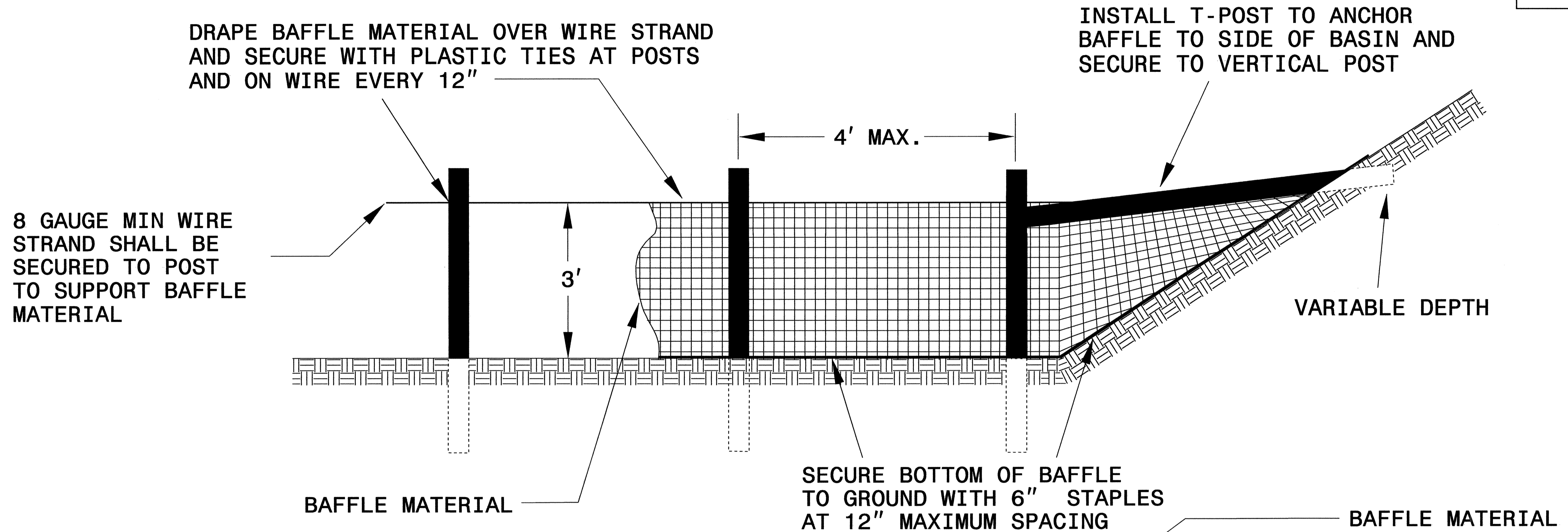
ALL COIR FIBER SHALL BE CONSTRUCTED WITH .14 PSF COIR, NORTH AMERICAN GREEN C-125BN COIR BLANKET, OR EQUIVALENT SPECIFICATIONS.

PROVIDE 5' STEEL POSTS OF THE SELF-FASTENER ANGLE STEEL TYPE. STEEL POSTS SHALL BE INSTALLED WITH NO MORE THAN 3 FEET OF THE POST APPEARING ABOVE THE GROUND.

THE COIR FIBER MAT SHALL BE ATTACHED TO THE STEEL POSTS WITH WIRE OR OTHER ACCEPTABLE MEANS AND STAPLED INTO THE SIDE SLOPES OF THE SKIMMER BASIN WITH 9" STAPLES.

PROJECT REFERENCE NO. <i>R-3415</i>	SHEET NO. <i>EC-2B</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TEMPORARY SEDIMENT BAFFLE DETAIL



NOTES:

WIRE STRAND SUPPORT SHALL BE 8 GAUGE MINIMUM WIRE.

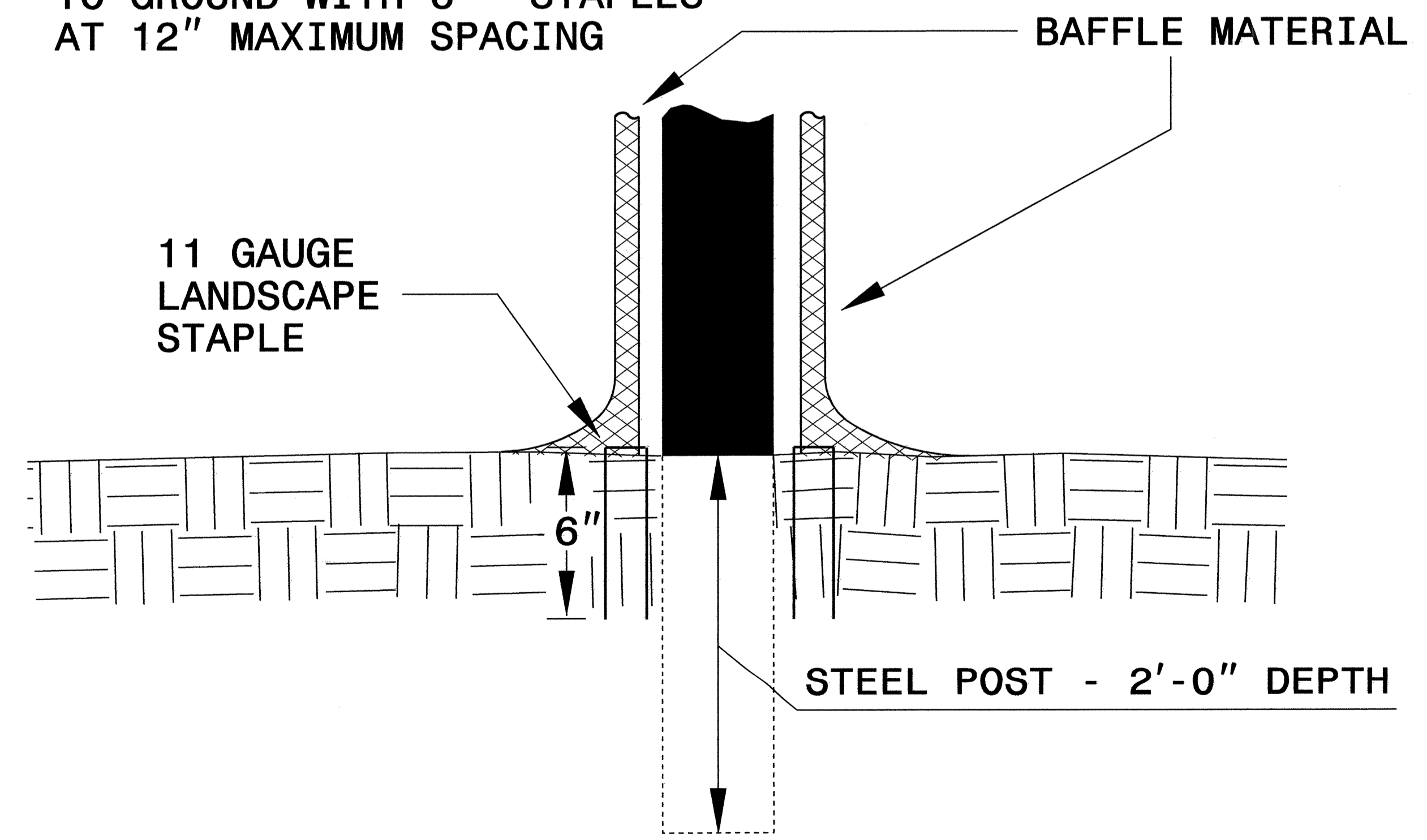
STEEL POST SHALL BE 5'-0" MIN. IN HEIGHT AND BE OF THE SELF-FASTENER ANGLE STEEL TYPE.

BAFFLE MATERIAL SHALL BE WOVEN COIR FIBER WITH .14 PSF COIR, NORTH AMERICAN GREEN C-125BN COIR BLANKET OR EQUIVALENT MATERIAL SPECIFIED BY THE ENGINEER.

BAFFLE MATERIAL SHALL BE A MINIMUM OF 6' IN WIDTH DRAPED AND SHALL BE FASTENED ADEQUATELY TO THE WIRE AND SUPPORTS WITH PLASTIC TIES OR AS DIRECTED BY THE ENGINEER.

BAFFLES SHALL BE 3' IN HEIGHT OR AS DIRECTED BY THE ENGINEER.

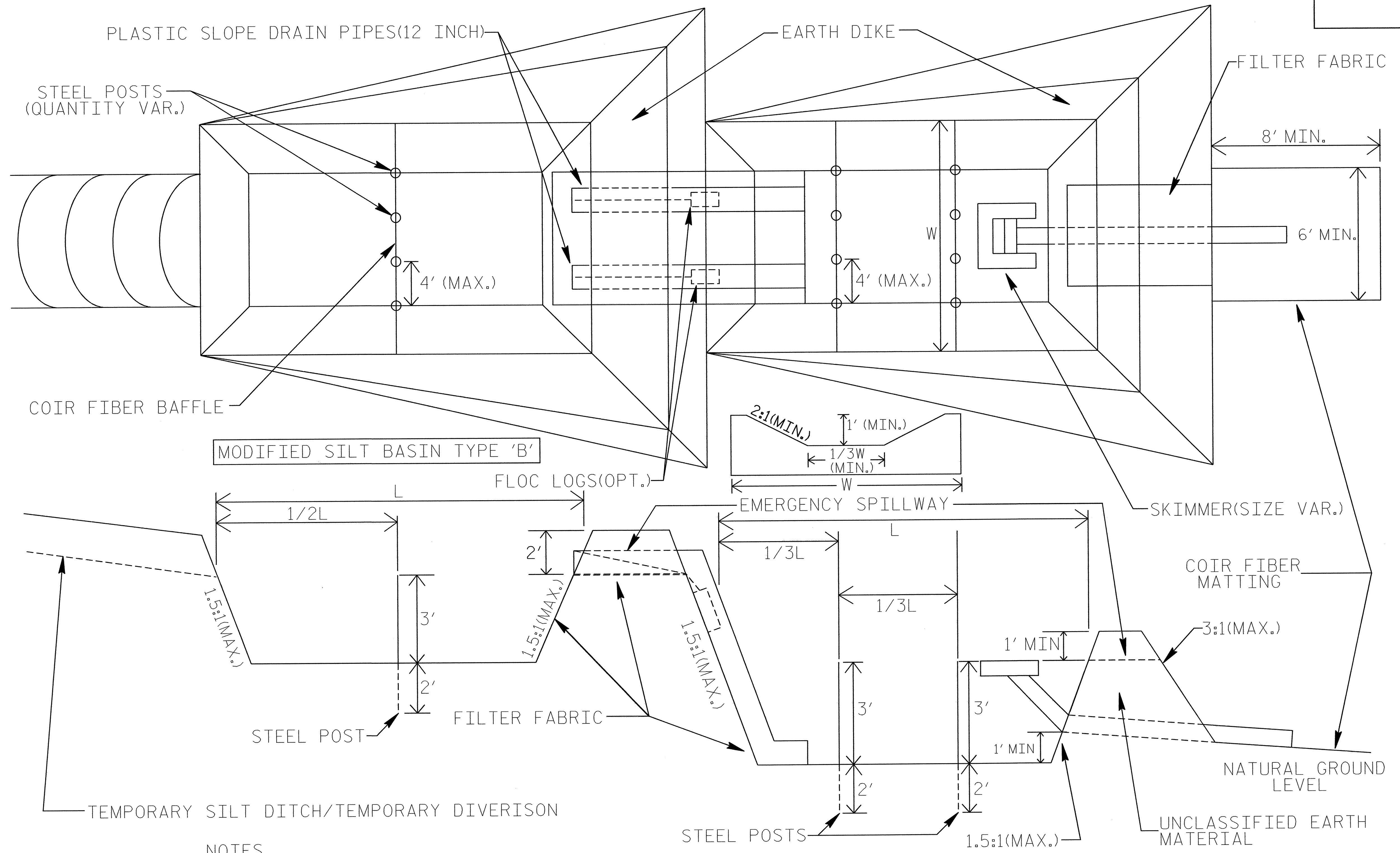
BAFFLE MATERIAL SHALL BE SECURED WITH 6" LANDSCAPE STAPLES AT THE BOTTOM AND SIDES OF THE BASIN AT 12" MAXIMUM SPACING.



BAFFLE MATERIAL SHALL BE SECURED TO THE BOTTOM AND SIDES OF BASIN USING 6" LANDSCAPE STAPLES

PROJECT REFERENCE NO. R-3415	SHEET NO. EC-2C
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TIERED SKIMMER BASIN DETAIL



NOTES

ALL COIR FIBER SHALL BE CONSTRUCTED WITH .14 PSF COIR, NORTH AMERICAN GREEN C-125BN COIR BLANKET, OR EQUIVALENT SPECIFICATIONS.

COIR FIBER BAFFLE MUST BE STAPLED INTO THE BOTTOM AND SIDESLOPES OF EACH BASIN WITH 6" STAPLES.

ADDITIONAL MODIFIED SILT BASINS TYPE 'B' MAY BE NEEDED DEPENDING ON SLOPE.

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJ. REFERENCE NO. R-3415	SHEET NO. EC-3	TOTAL SHEETS
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION

SOIL STABILIZATION SUMMARY SHEET

MATTING

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
4	L	14+50	15+50	LT	35
4	L	19+50	20+00	LT	15
4	L	18+50	36+50	RT	630
4	Y	12+50	13+00	RT	20
5	L	26+21		LT	40
5	L	25+50	33+50	LT	355
6	L	47+50	50+35	RT	215
6	L	47+00	48+00	LT	25
6	D1	10+00	11+50	RT	70
6	D1	10+00	11+50	LT	70
7	L	51+00	56+50	RT	385
7	L	62+00	73+00	RT	770
7	L	53+50	61+00	LT	265
7	L	63+00	79+20	LT	1150
9	L	79+35	92+00	RT	855
9	L	79+35	102+00	LT	1685
10	L	92+80	94+50	RT	60
10	L	95+50	99+91	RT	465
10	L	100+30	101+50	RT	45
10	L	103+50	106+50	RT	210
10	L	103+00	115+50	LT	875
11	L	108+00	119+00	RT	445
11	L	116+00	118+78	LT	140
12	L	119+02	135+50	LT	1085
12	L	126+28	133+00	RT	475
12	L	130+50		RT	30
12	D2	10+50	11+50	RT	45
12	D2	10+50	11+50	LT	45
12	D3	10+50	11+50	RT	45
12	D3	10+50	11+50	LT	45

MATTING

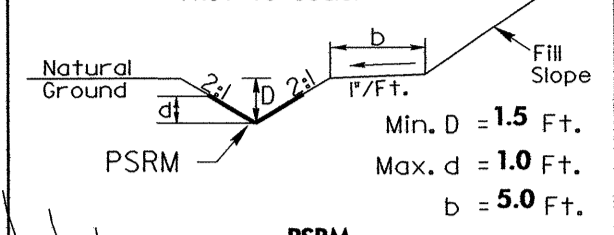
CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
12	D4	10+50	11+50	RT	50
12	D4	10+50	11+50	LT	50
12	Y2	15+50	16+60	RT	40
12	Y2	15+50	16+60	LT	40
13	L	135+13		RT	15
13	L	143+00	151+50	RT	895
13	L	137+00	142+00	LT	250
13	D5	10+50	12+50	RT	60
13	D5	10+50	12+50	LT	60
14	L	147+00	148+00	RT-BERM	25
14	L	148+00	150+00	RT-BERM	50
14	L	154+00	168+50	RT	1020
14	Y3	12+79		RT	10
14	L	158+70	171+00	LT	575
14	Y3	11+50	16+50	LT	350
15	L	172+00	173+50	LT	70
15	L	169+00	171+00	RT	145
15	L	172+00	177+00	RT	175
16	L	178+00	181+00	RT	105
16	L	183+00	183+50	RT	20
16	L	185+50	188+50	RT	105
16	L	174+00	188+50	LT	490
17	L	190+00	199+50	RT	500
17	L	189+50	192+00	LT	95
17	L	192+90		LT	10
17	L	195+00	199+50	LT	260
18	L	200+50	208+00	RT	305
18	L	202+00		LT	15
18	L	201+50	21750	LT	795
18	L	209+00	209+50	RT	25

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 04

NOTE:

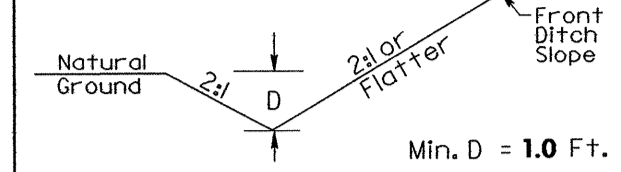
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

DETAIL 2A
LATERAL 'V' DITCH
(NOT TO SCALE)

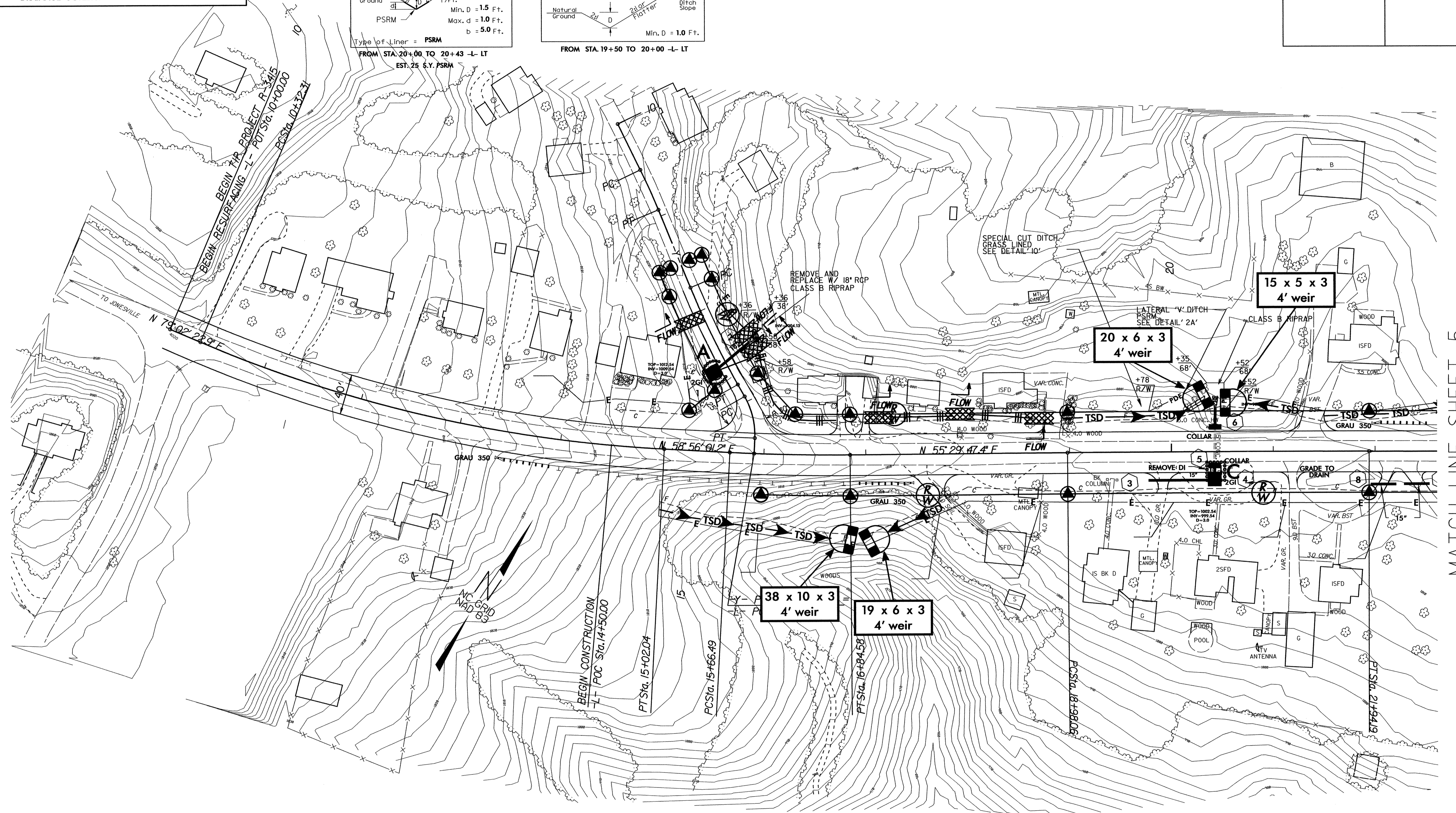


FROM STA. 20+00 TO 20+43 -L- LT
EST. 25 S.Y. PSRM

DETAIL 10
SPECIAL CUT DITCH
(NOT TO SCALE)



FROM STA. 19+50 TO 20+00 -L- LT



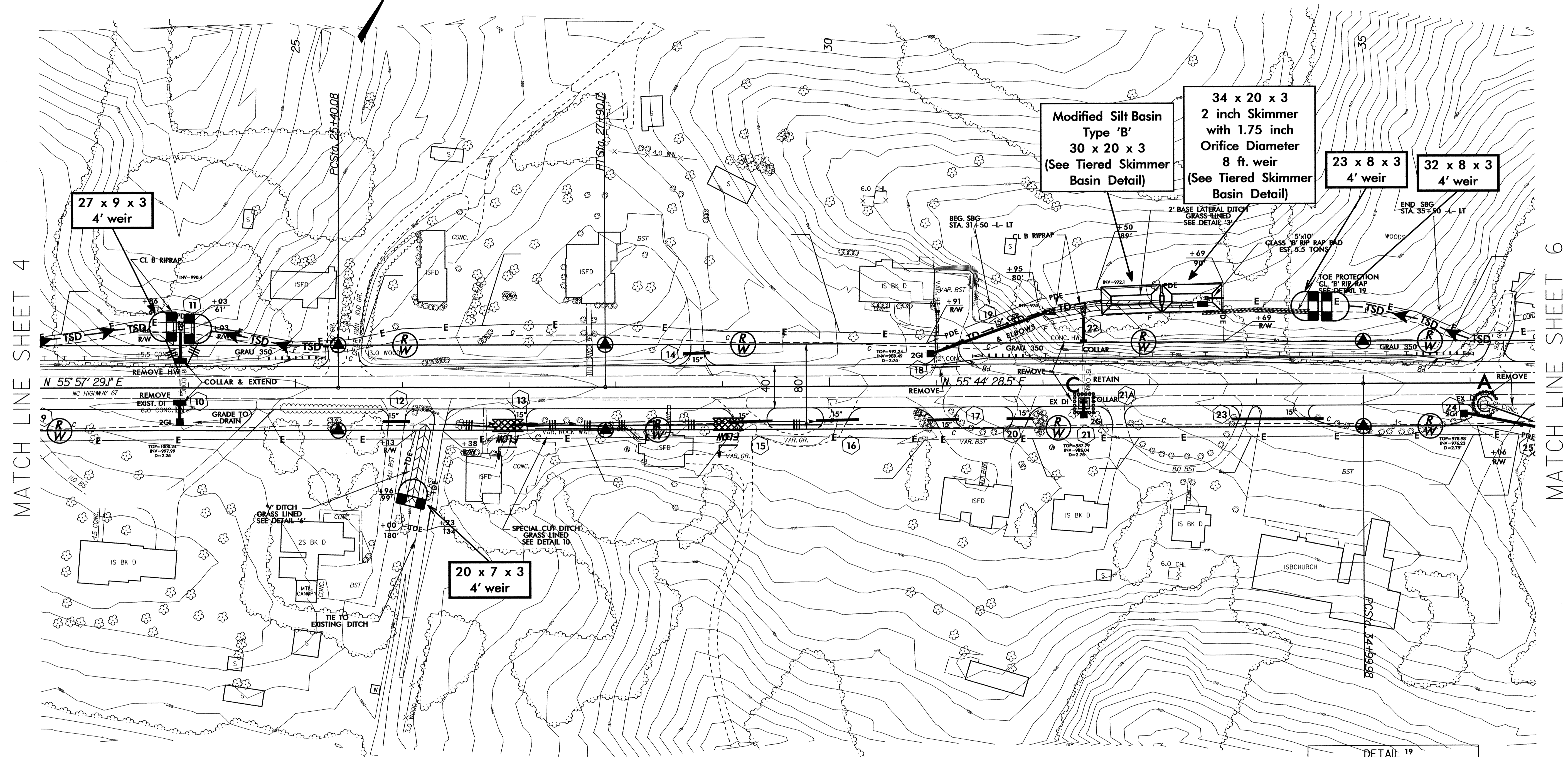
MATCH LINE SHEET 5

PROJECT REFERENCE NO.	SHEET NO.
R-3415	EC-04/CONST.04
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 05

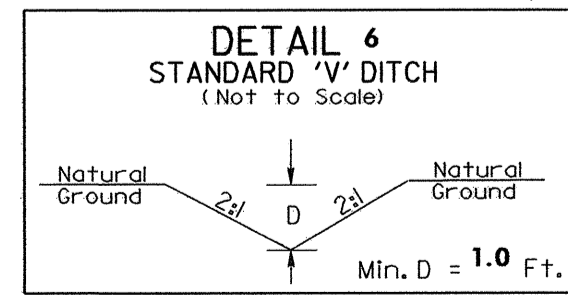
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

PROJECT REFERENCE NO. R-3415	SHEET NO. EC-05/CONST.05
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

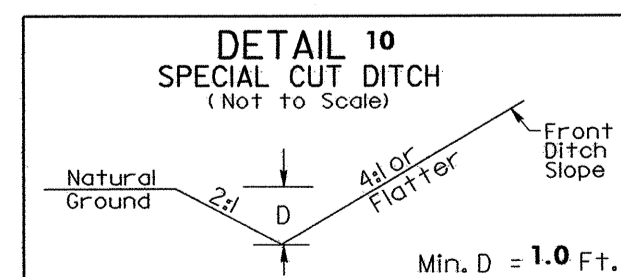


MATCH LINE SHEET 4

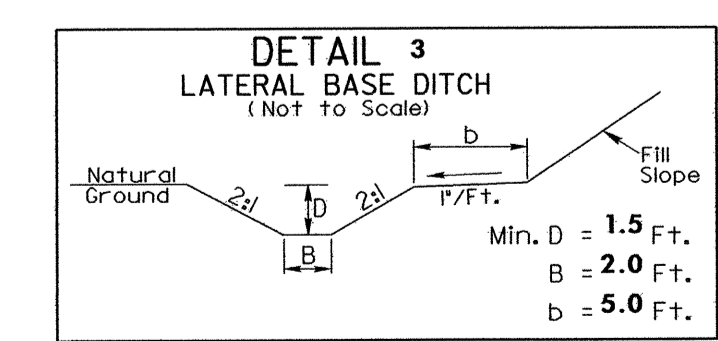
MATCH LINE SHEET 6



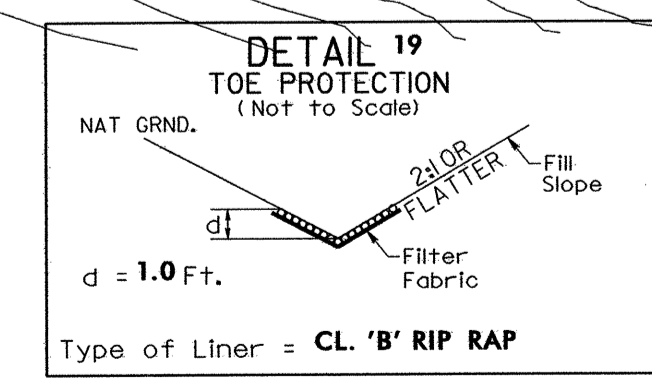
@ STA. 26+21 -L- RT
EST. DDE = 17 C.Y.



FROM STA. 26+00 TO 29+50 -L- RT



FROM STA. 32+00 TO 33+50 -L- LT

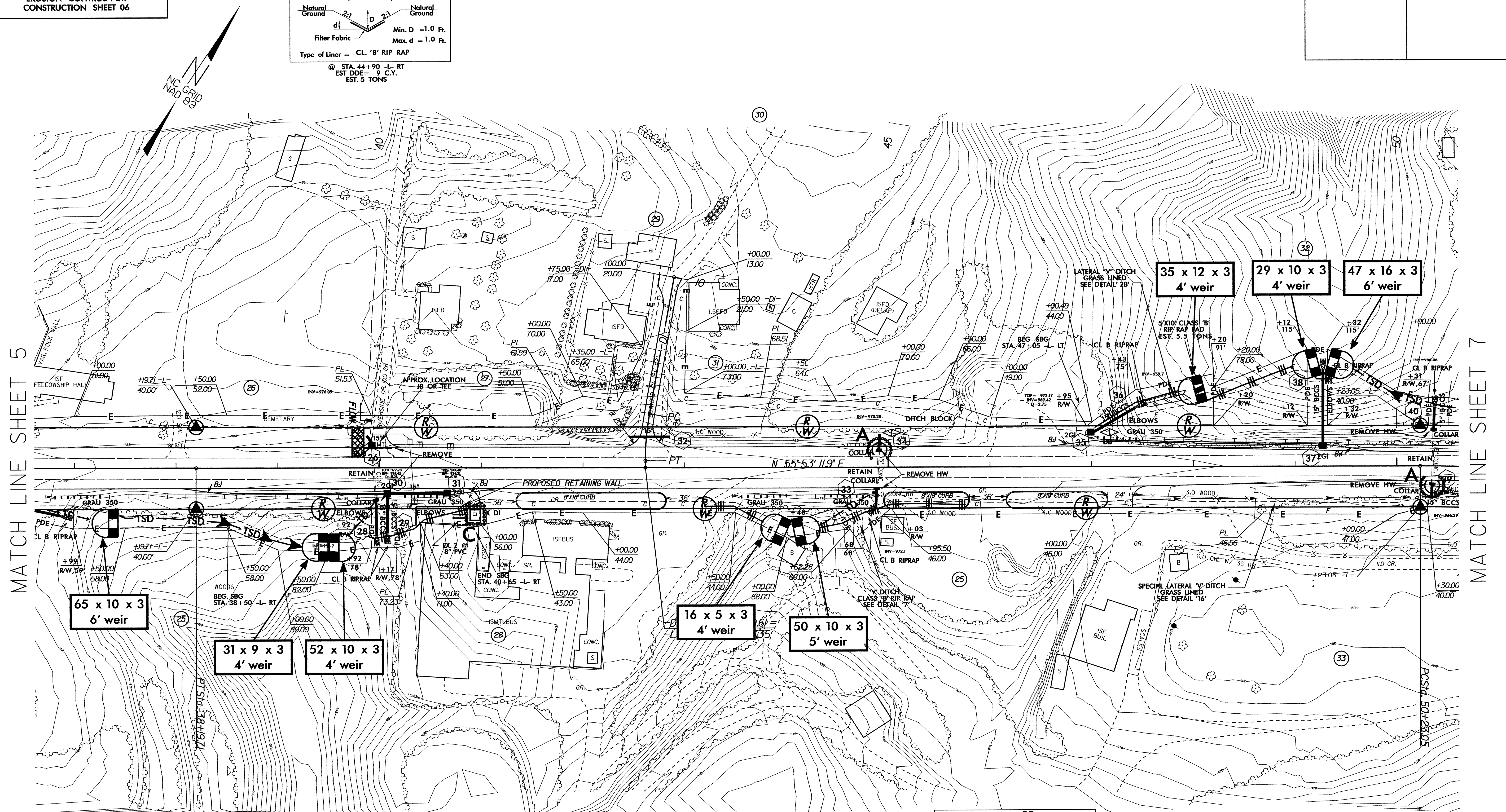
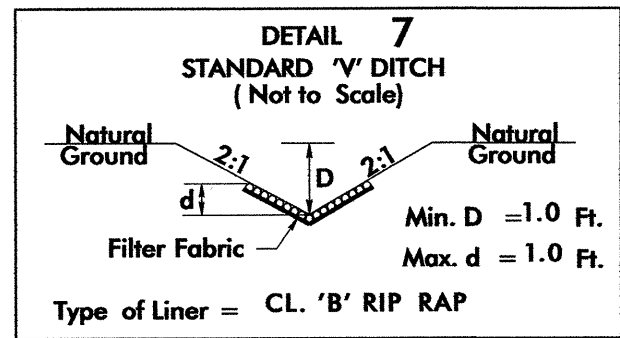


FROM STA. 33+50 TO 34+50 -L- LT
EST. 17 TONS

PROJECT REFERENCE NO.	SHEET NO.
R-3415	EC-06/CONST.06
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

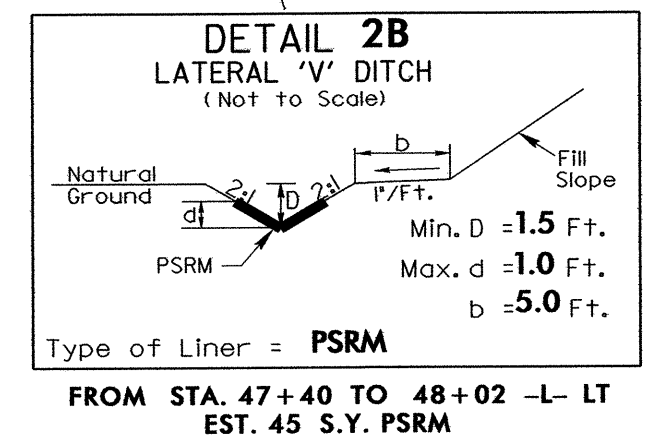
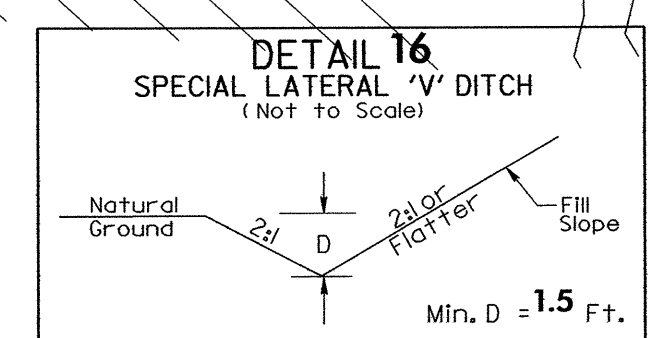
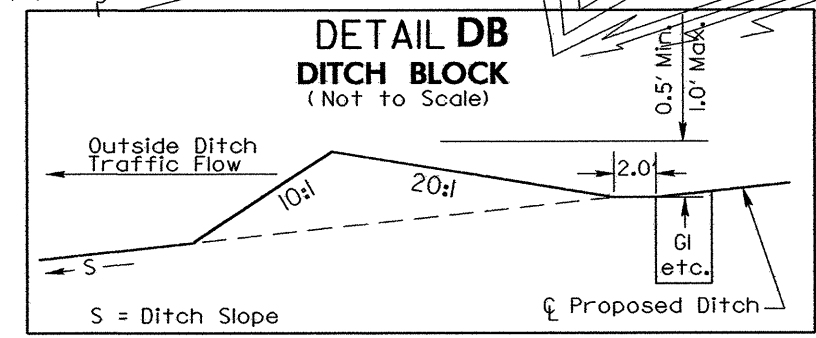
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 06



MATCH LINE SHEET 5

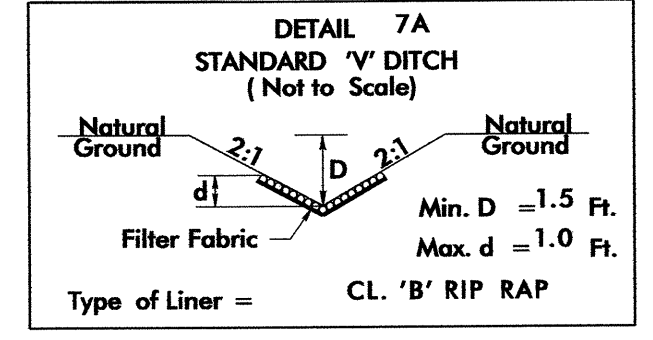
MATCH LINE SHEET 7



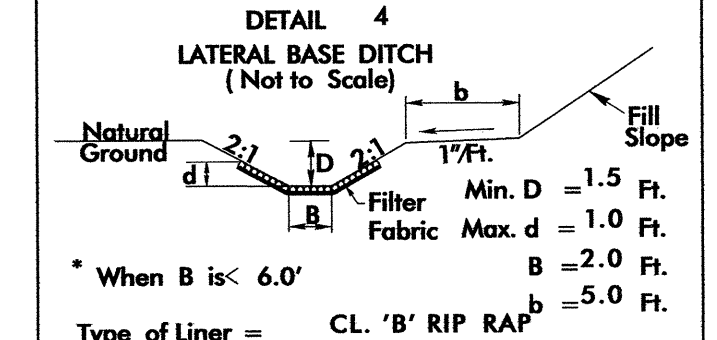
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 07

PROJECT REFERENCE NO. R-3415	SHEET NO. EC-07/CONST.07
R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

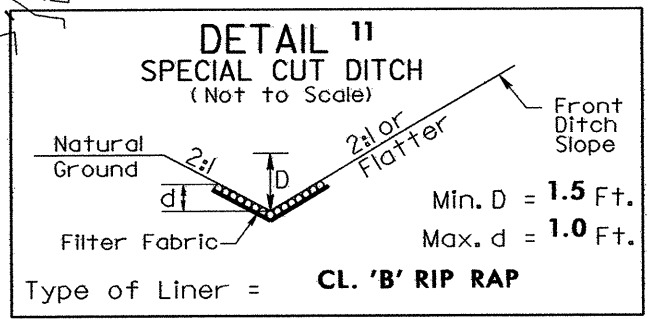
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.



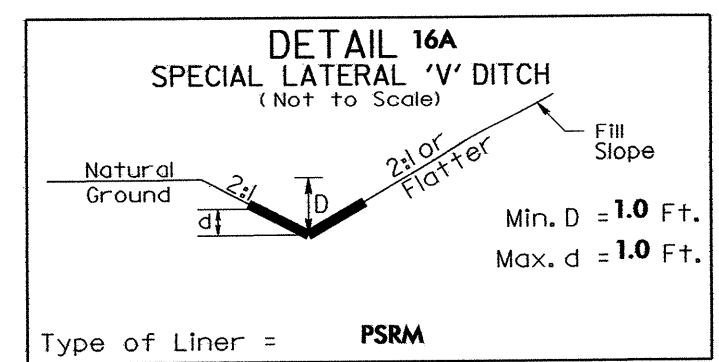
@ STA. 61+80 -L- RT
EST. 13 TONS
EST. 43 C.Y.
EST. 27 S.Y.F.F.



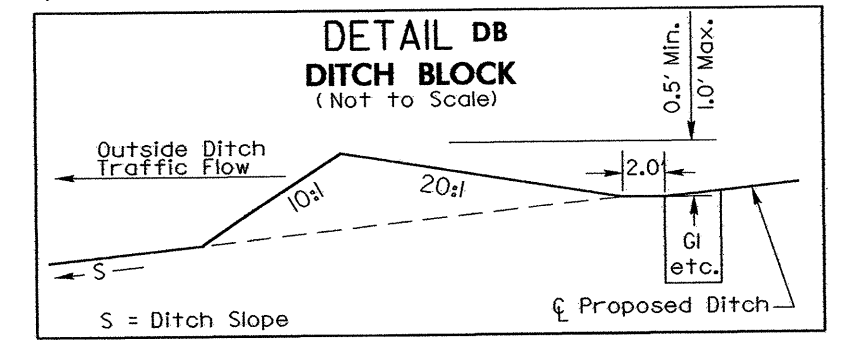
FROM STA. 61+00 TO 61+85 -L- LT
EST. 30 TONS
EST. 57 S.Y.F.F.



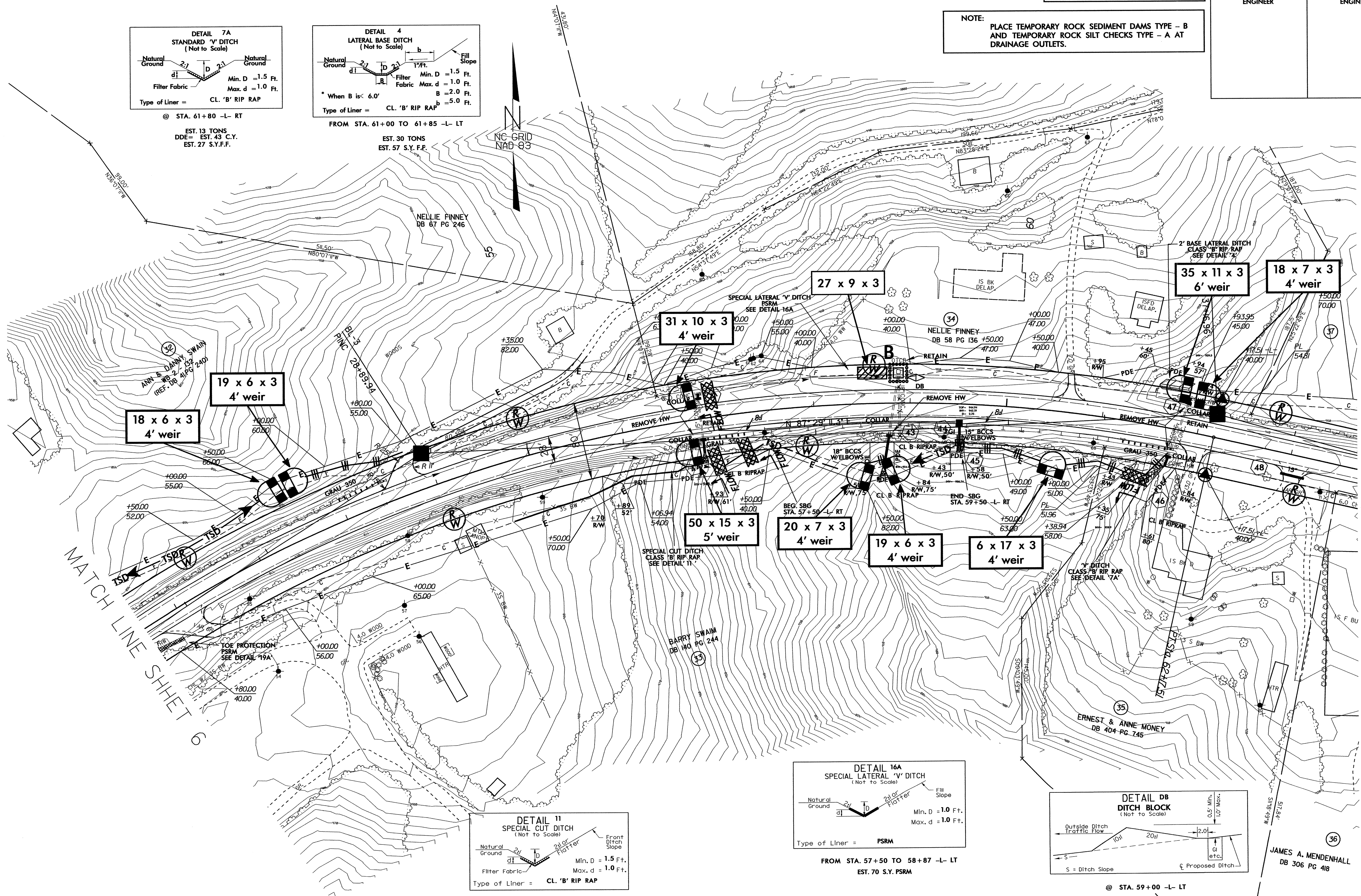
FROM STA. 56+00 TO 56+82 -L- RT
EST. 22 TONS
EST. 45 S.Y.F.F.



FROM STA. 57+50 TO 58+87 -L- LT
EST. 70 S.Y.F.F.



@ STA. 59+00 -L- LT



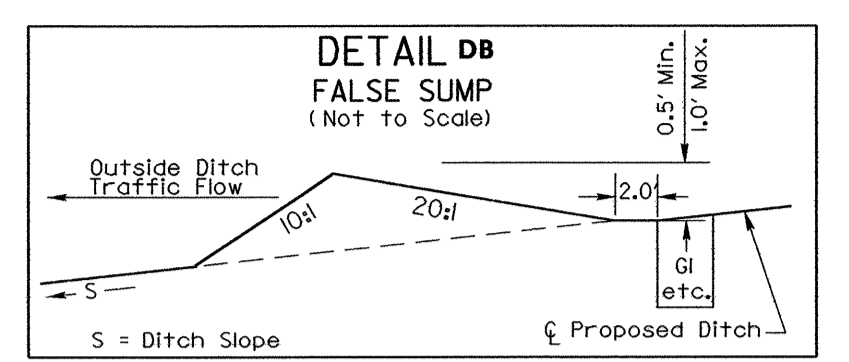
MATCH LINE SHEET 6

MATCH LINE SHEET 8

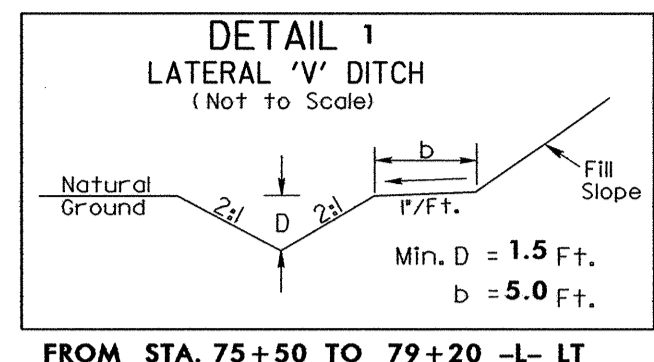
JAMES A. MENDENHALL
DB 306 PG 418

PROJECT REFERENCE NO. R-3415	SHEET NO. EC-08/CONST.08
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

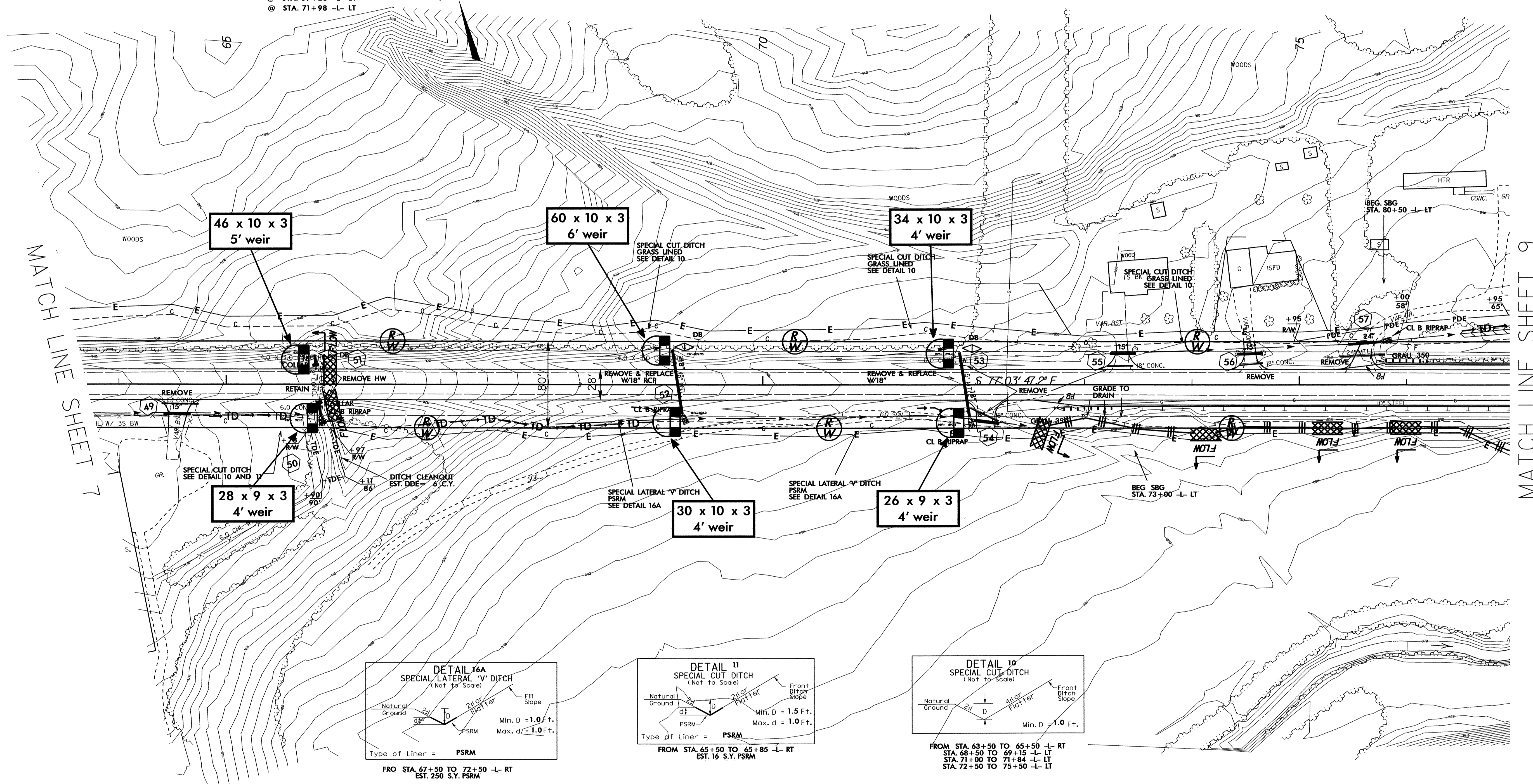
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.



@ STA. 65+90 -L- LT
@ STA. 69+25 -L- LT
@ STA. 71+98 -L- LT

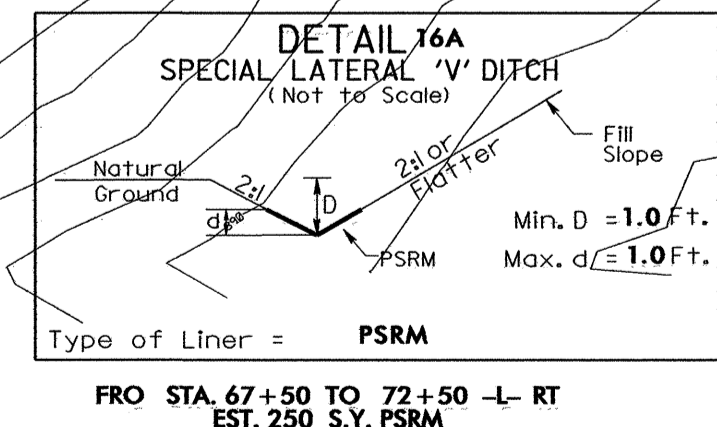


FROM STA. 75+50 TO 79+20 -L- LT

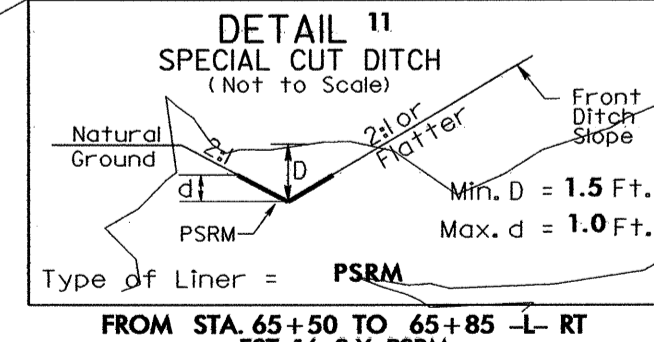


MATCH LINE SHEET 7

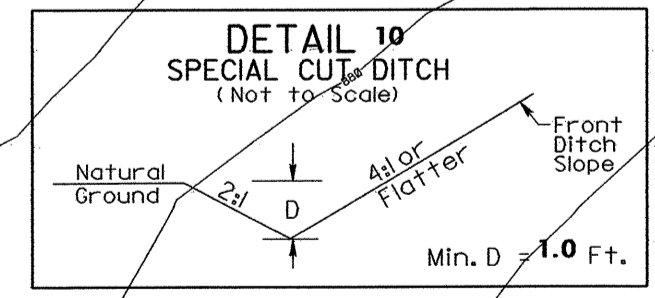
MATCH LINE SHEET 9



FROM STA. 67+50 TO 72+50 -L- RT
EST. 250 S.Y. PSRM

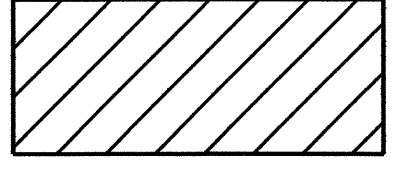


FROM STA. 65+50 TO 65+85 -L- RT
EST. 16 S.Y. PSRM



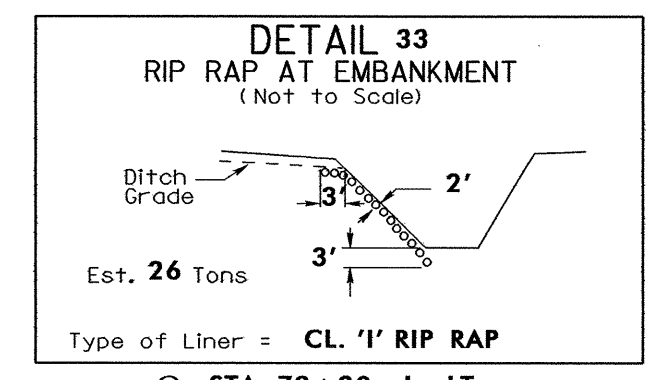
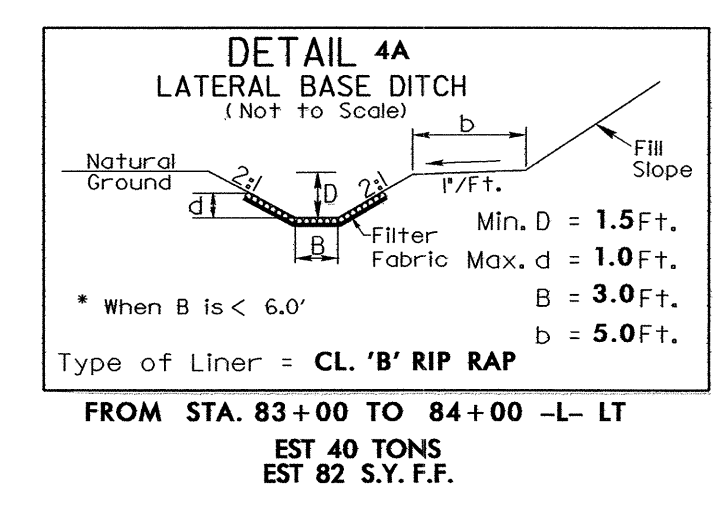
FROM STA. 63+50 TO 65+50 -L- RT
STA. 68+50 TO 69+15 -L- LT
STA. 71+00 TO 71+84 -L- LT
STA. 72+50 TO 75+50 -L- LT

PROJECT REFERENCE NO.	SHEET NO.
R-3415	EC-09/CONST.09
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

 ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

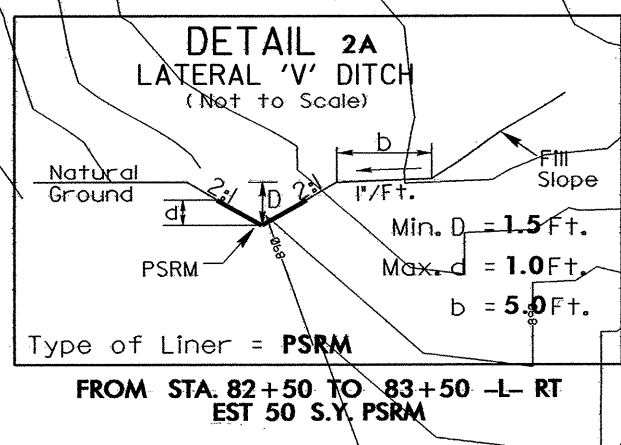
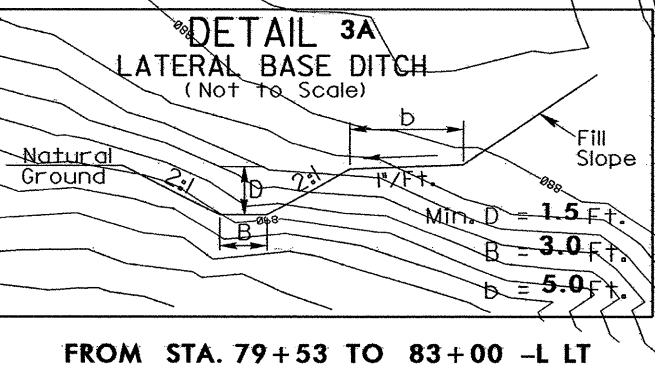
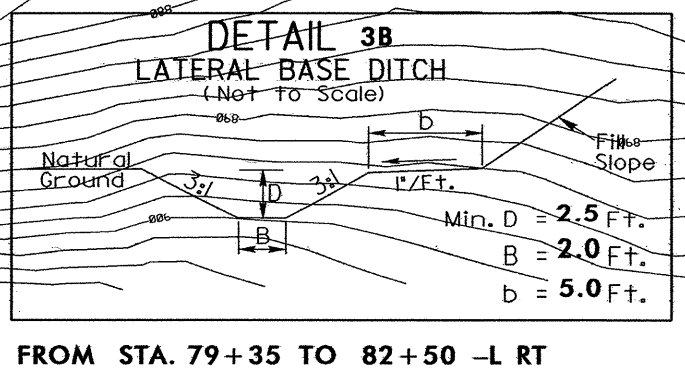
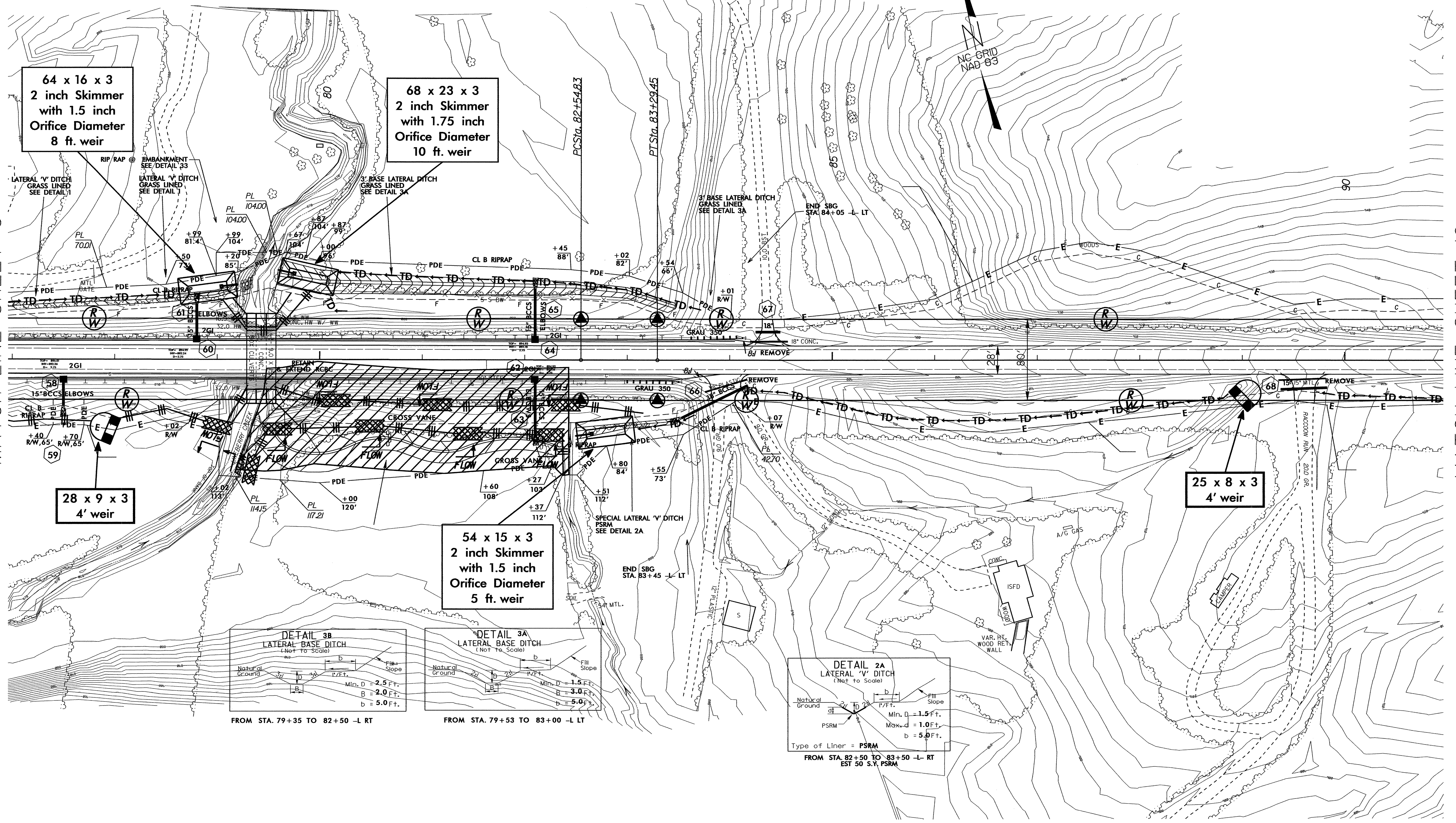
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 09

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



MATCH LINE SHEET 8

MATCH LINE SHEET 10



PROJECT REFERENCE NO.	SHEET NO.
R-3415	EC-10/CONST.09
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

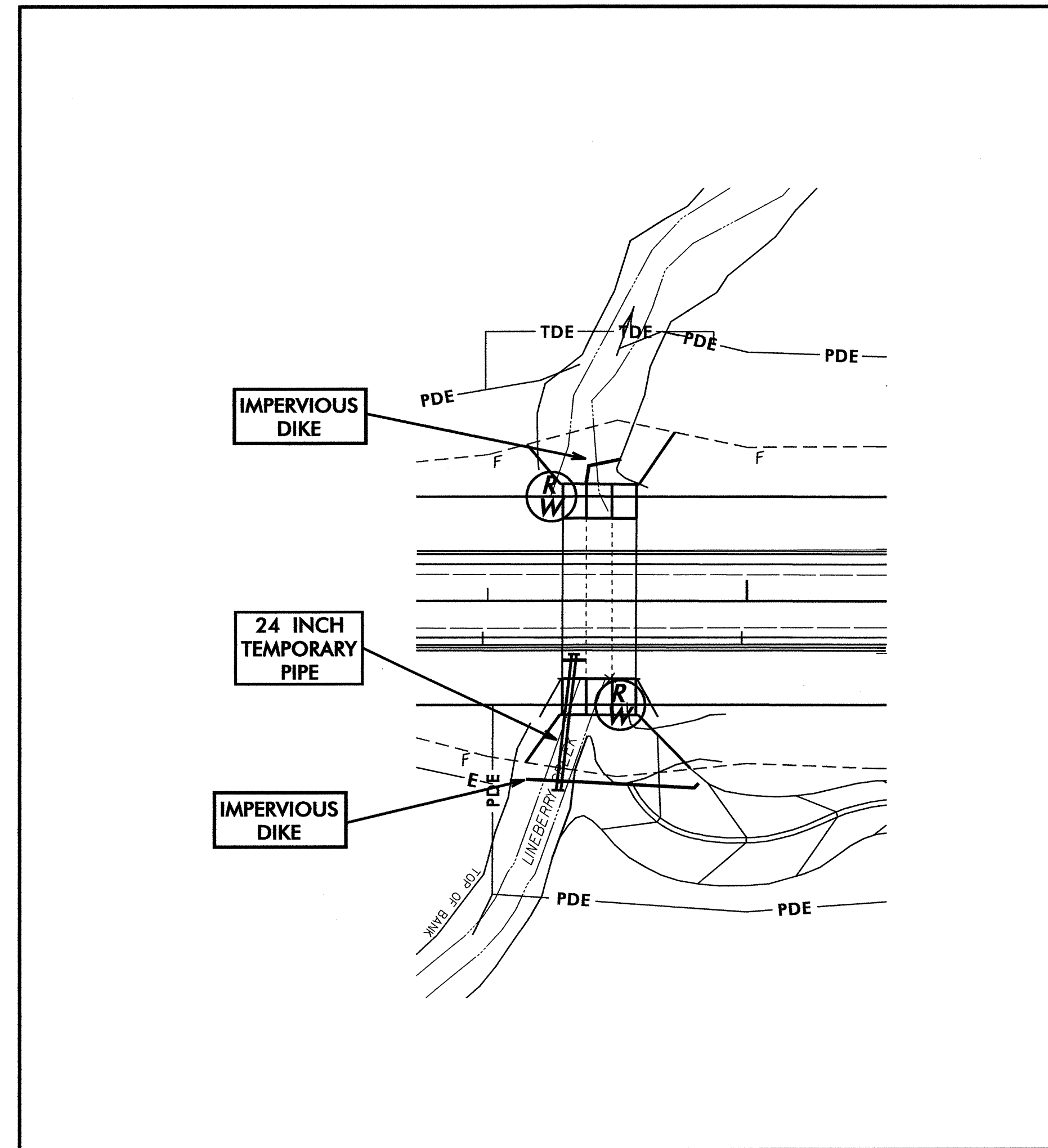
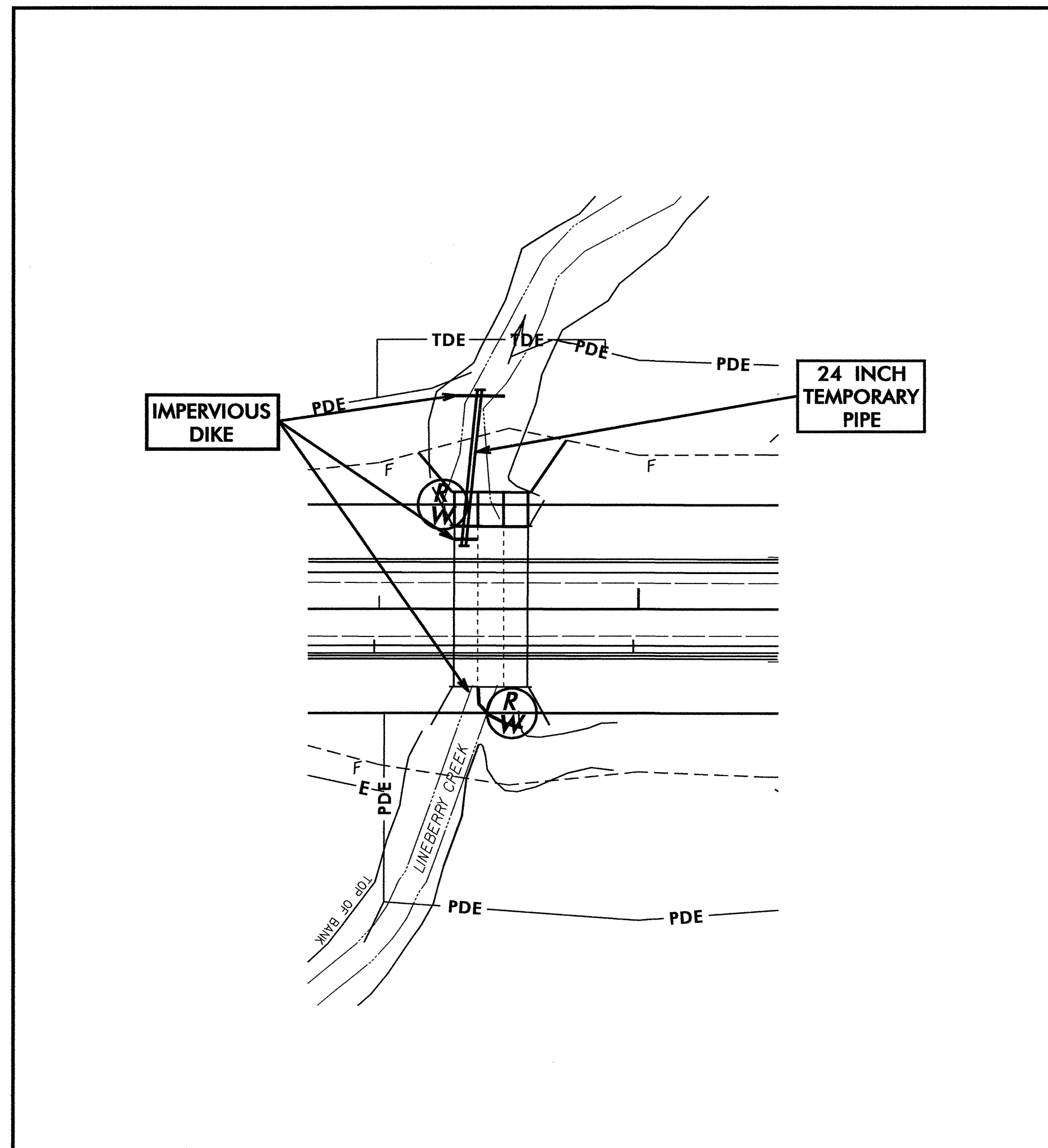
CULVERT CONSTRUCTION SEQUENCE STA. 79 + 43 -L-

PHASE I

- 1.) INSTALL SPECIAL STILLING BASIN TO PUMP EFFLUENT.
- 2.) CONSTRUCT IMPERVIOUS DIKES AND 24" TEMPORARY PIPE.
- 3.) DIVERT FLOW THROUGH WESTERN MOST BARREL.
- 4.) CONSTRUCT DOWNSTREAM CULVERT EXTENSIONS INCLUDING WINGWALLS.

PHASE II

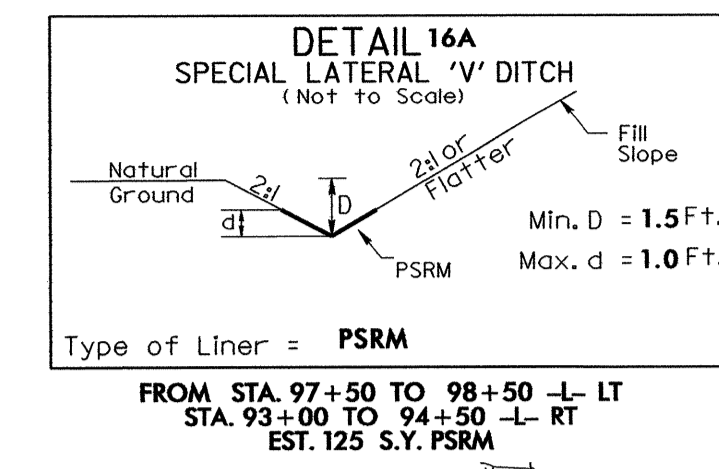
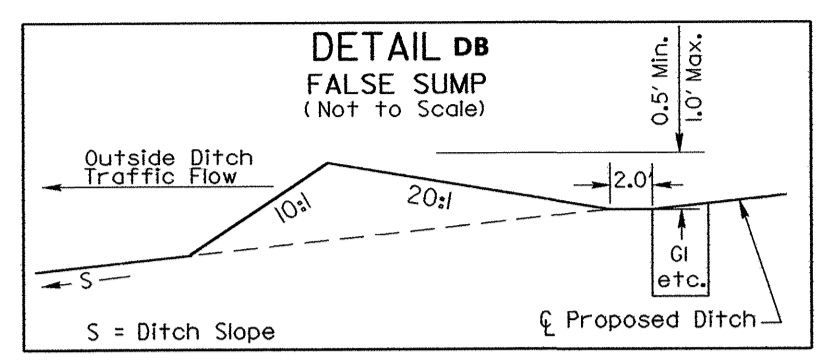
- 1.) REMOVE PHASE I IMPERVIOUS DIKES AND 24" TEMPORARY PIPE.
- 2.) CONSTRUCT PHASE II IMPERVIOUS DIKES AND 24" TEMPORARY PIPE.
- 3.) DIVERT FLOW THROUGH WESTERN MOST BARREL.
- 4.) CONSTRUCT UPSTREAM CULVERT EXTENSIONS INCLUDING WINGWALLS.
- 5.) COMPLETE CHANNEL IMPROVEMENTS AND COMPLETE ROADWAY.



PROJECT REFERENCE NO.	SHEET NO.
R-3415	EC-11/CONST.10
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

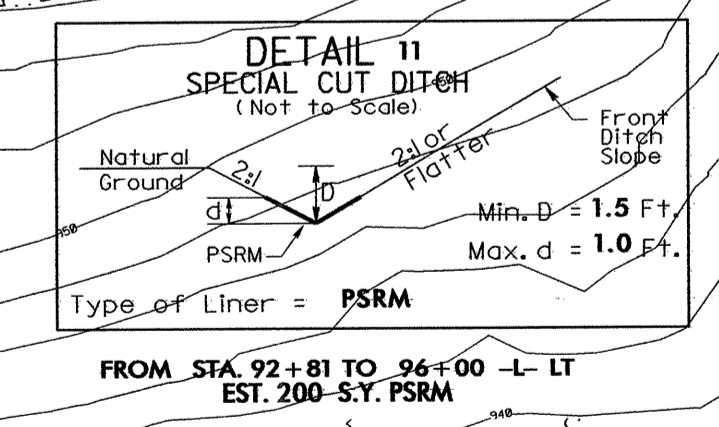
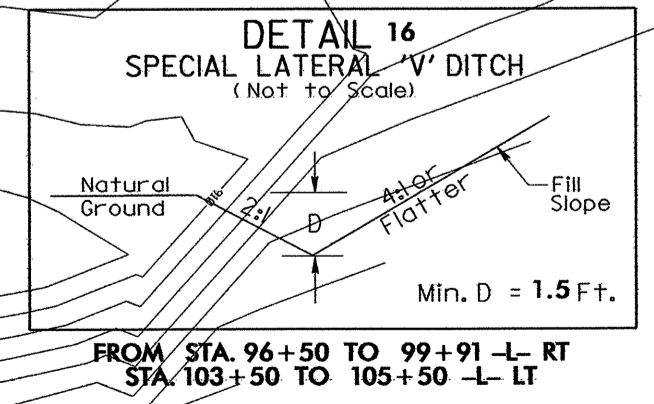
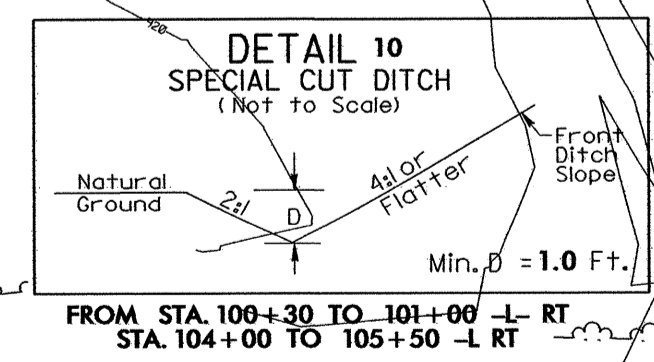
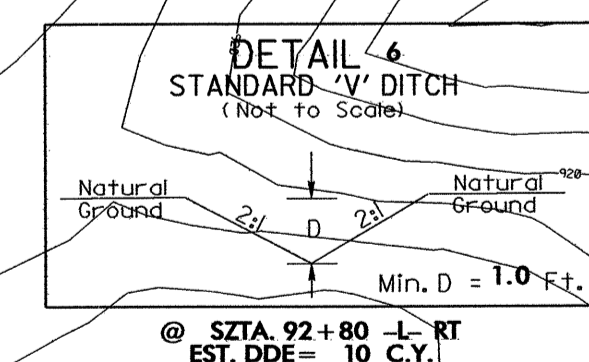
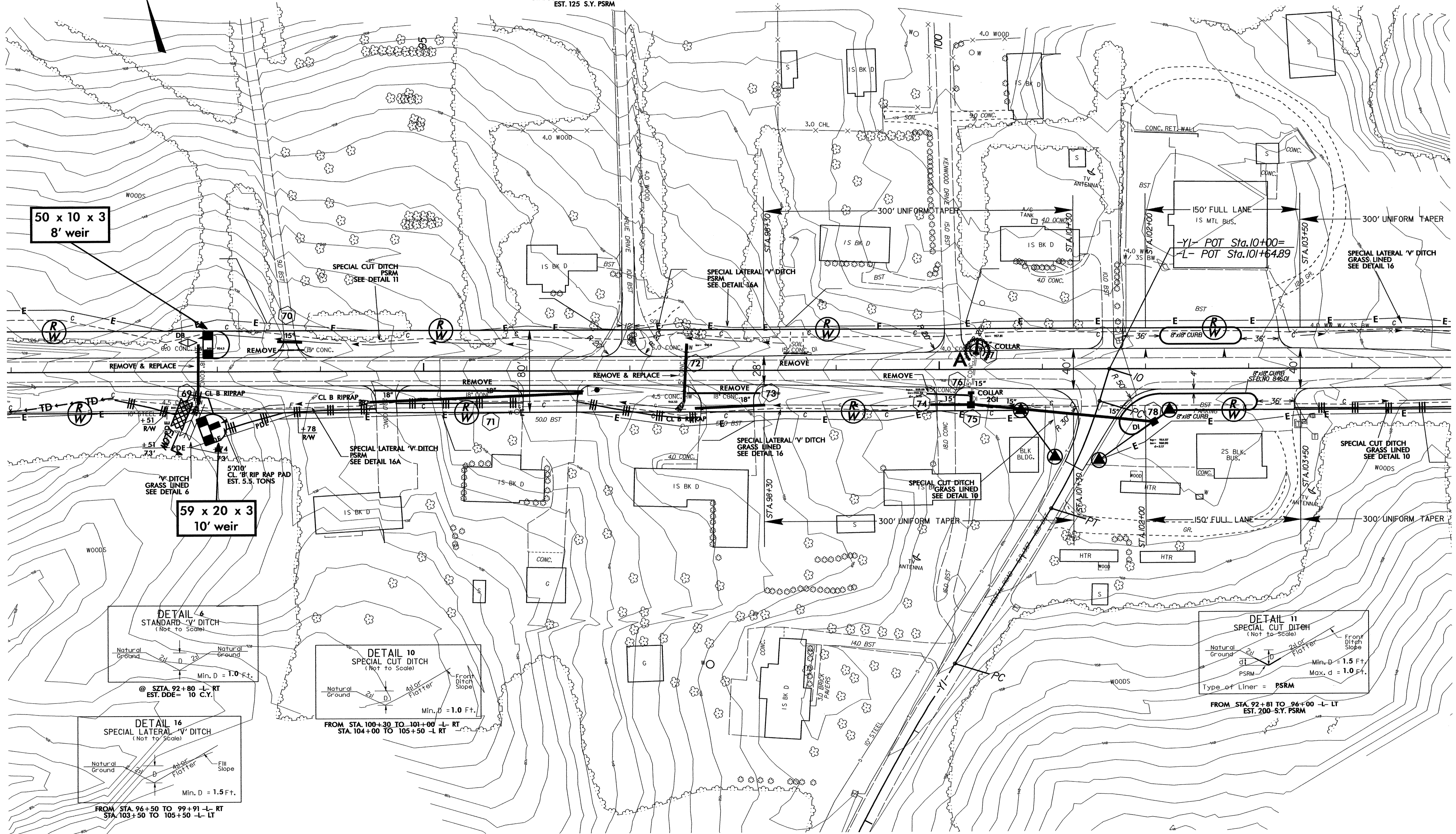
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 10

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



MATCH LINE SHEET 9

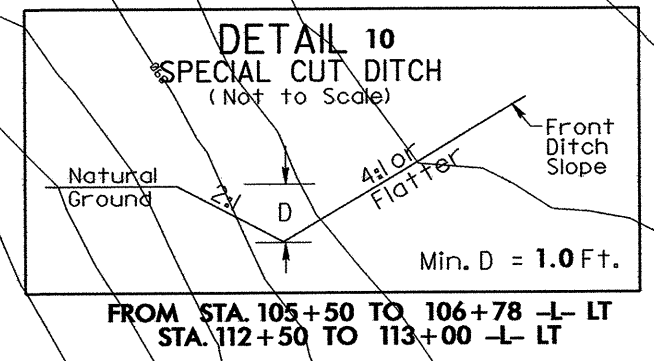
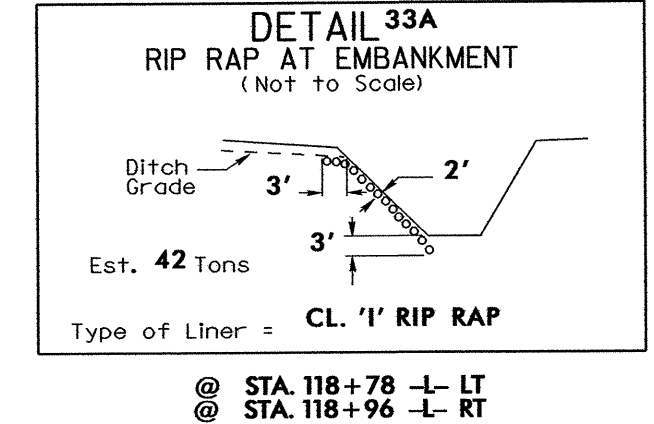
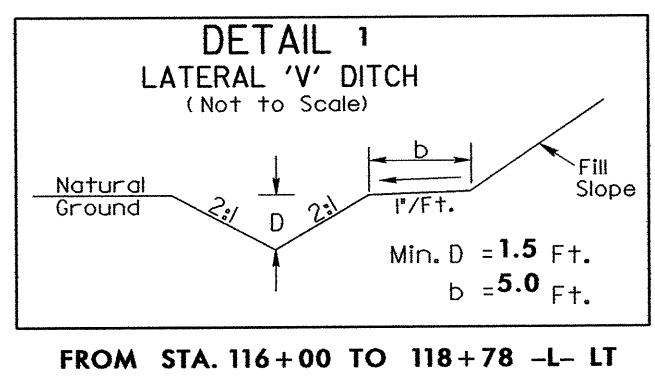
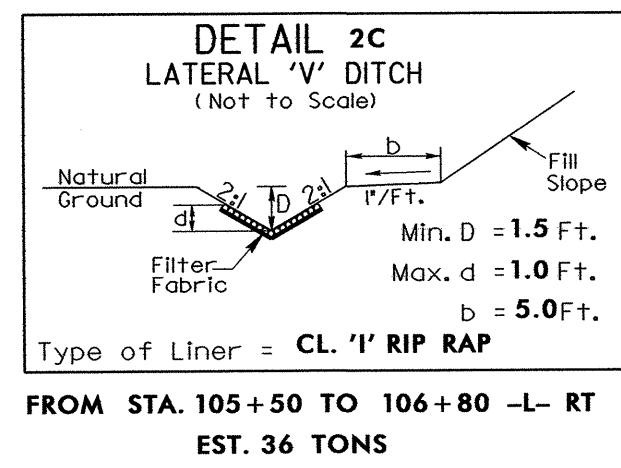
MATCH LINE SHEET 11



CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 11

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

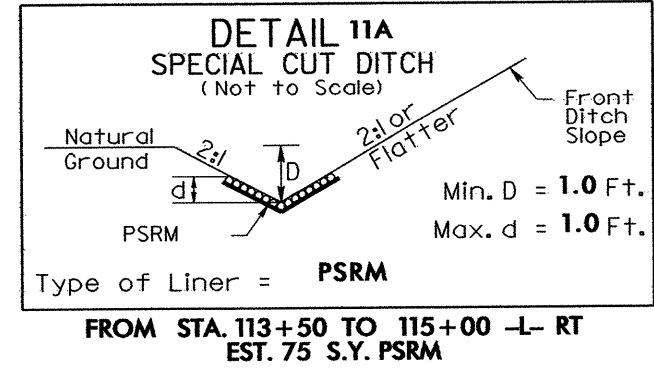
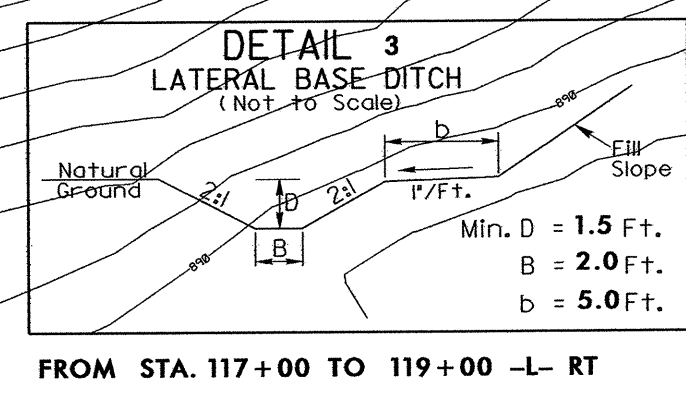
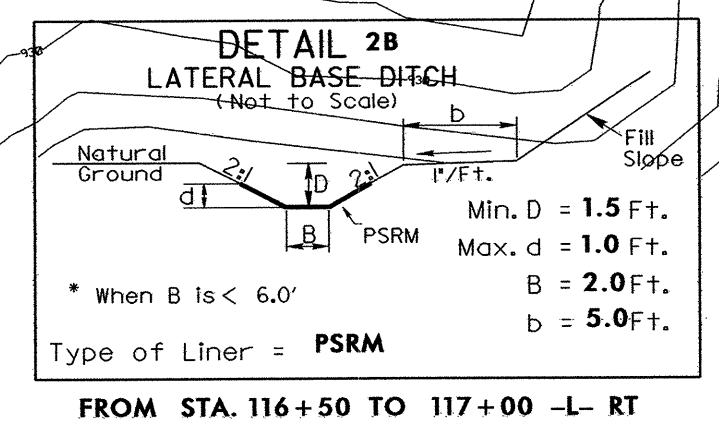
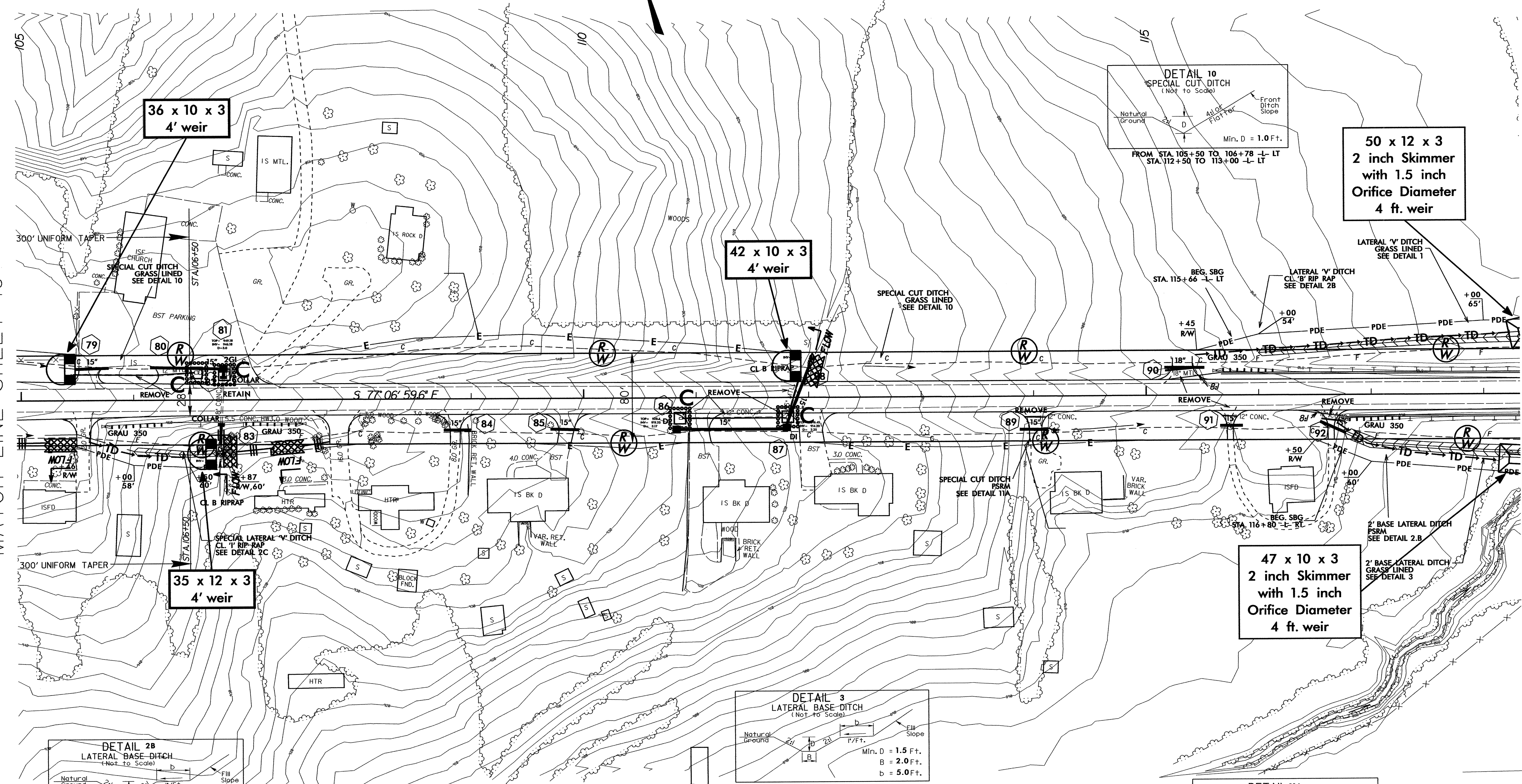
PROJECT REFERENCE NO. R-3415	SHEET NO. EC-12/CONST.11
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



50 x 12 x 3
2 inch Skimmer
with 1.5 inch
Orifice Diameter
4 ft. weir

MATCH LINE SHEET 10

MATCH LINE SHEET 12



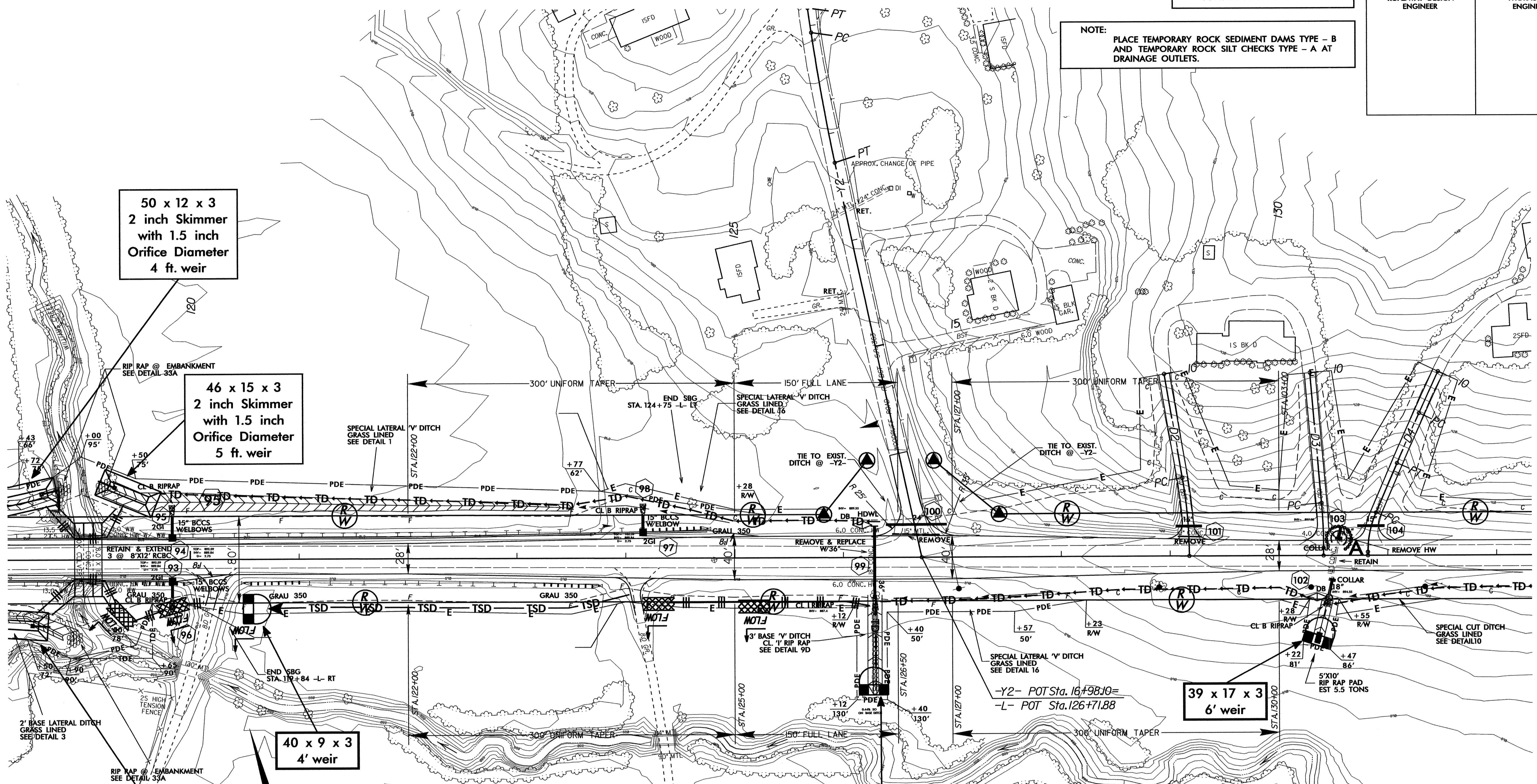
PROJECT REFERENCE NO.	SHEET NO.
R-3415	EC-13/CONST.12
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

**CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 12**

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

MATCH LINE SHEET 11

MATCH LINE SHEET 13



**50 x 12 x 3
2 inch Skimmer
with 1.5 inch
Orifice Diameter
4 ft. weir**

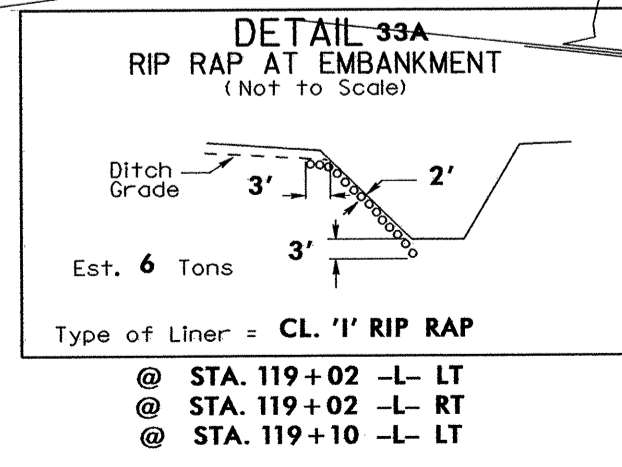
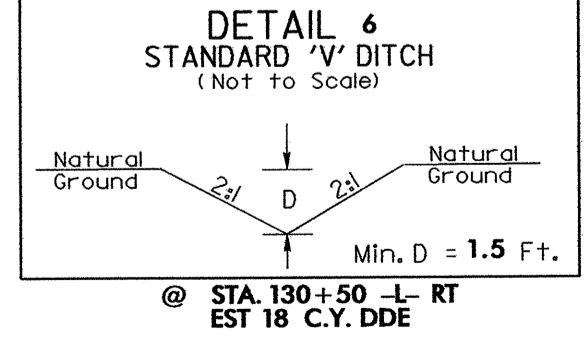
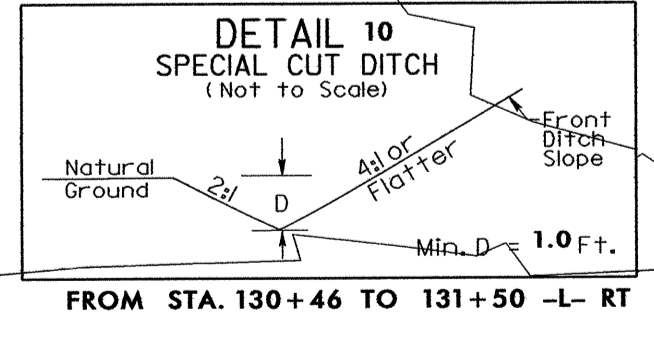
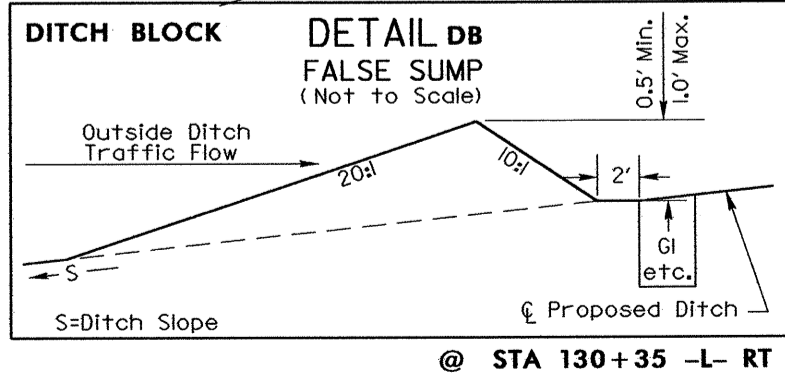
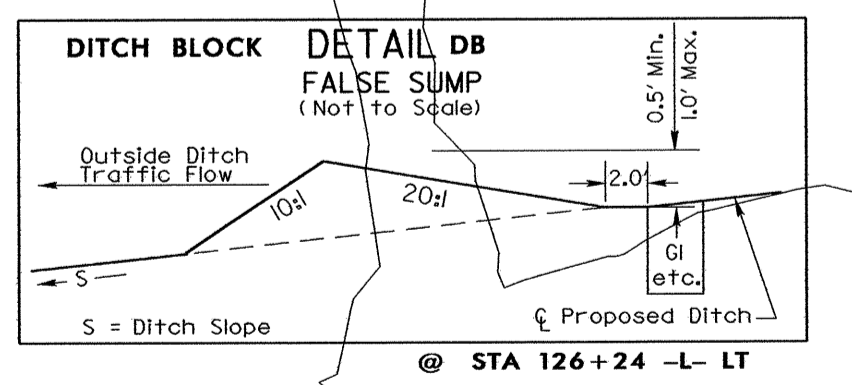
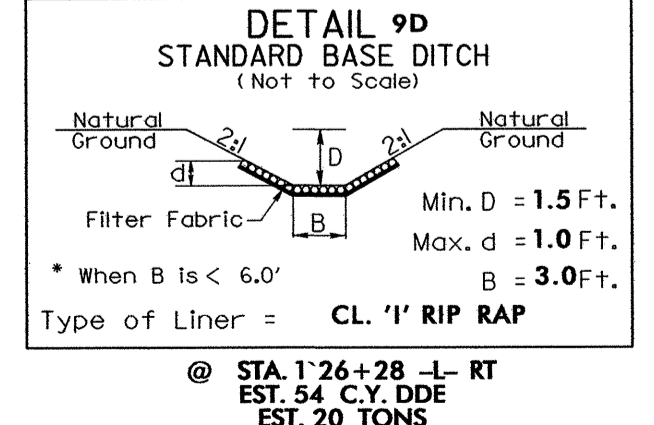
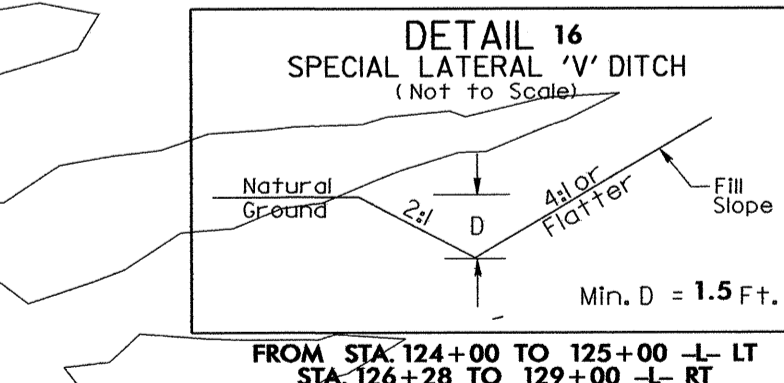
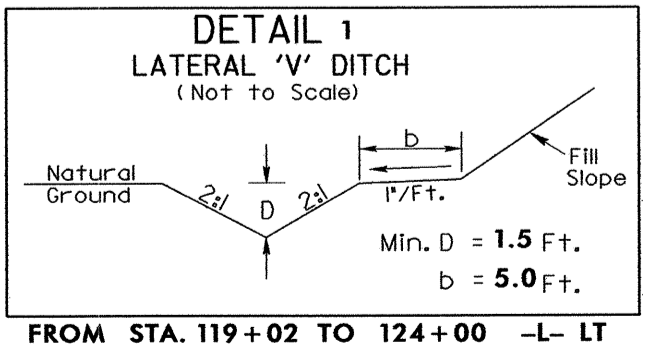
**46 x 15 x 3
2 inch Skimmer
with 1.5 inch
Orifice Diameter
5 ft. weir**

**40 x 9 x 3
4' weir**

**47 x 10 x 3
2 inch Skimmer
with 1.5 inch
Orifice Diameter
4 ft. weir**

**58 x 19 x 3
7' weir**

**39 x 17 x 3
6' weir**

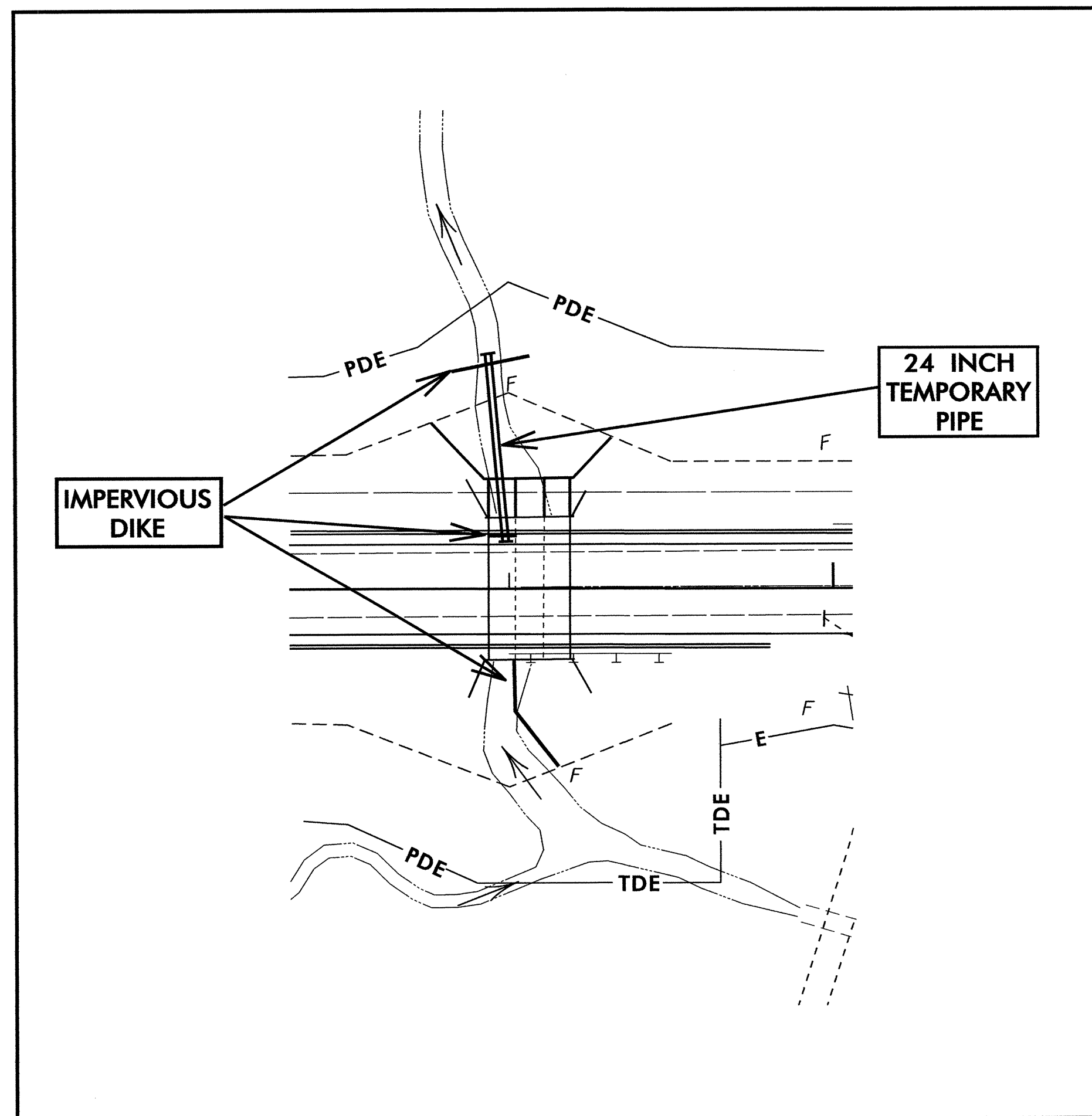


PROJECT REFERENCE NO. R-3415	SHEET NO. EC-14/CONST12
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CULVERT CONSTRUCTION SEQUENCE STA. 119+00 -L-

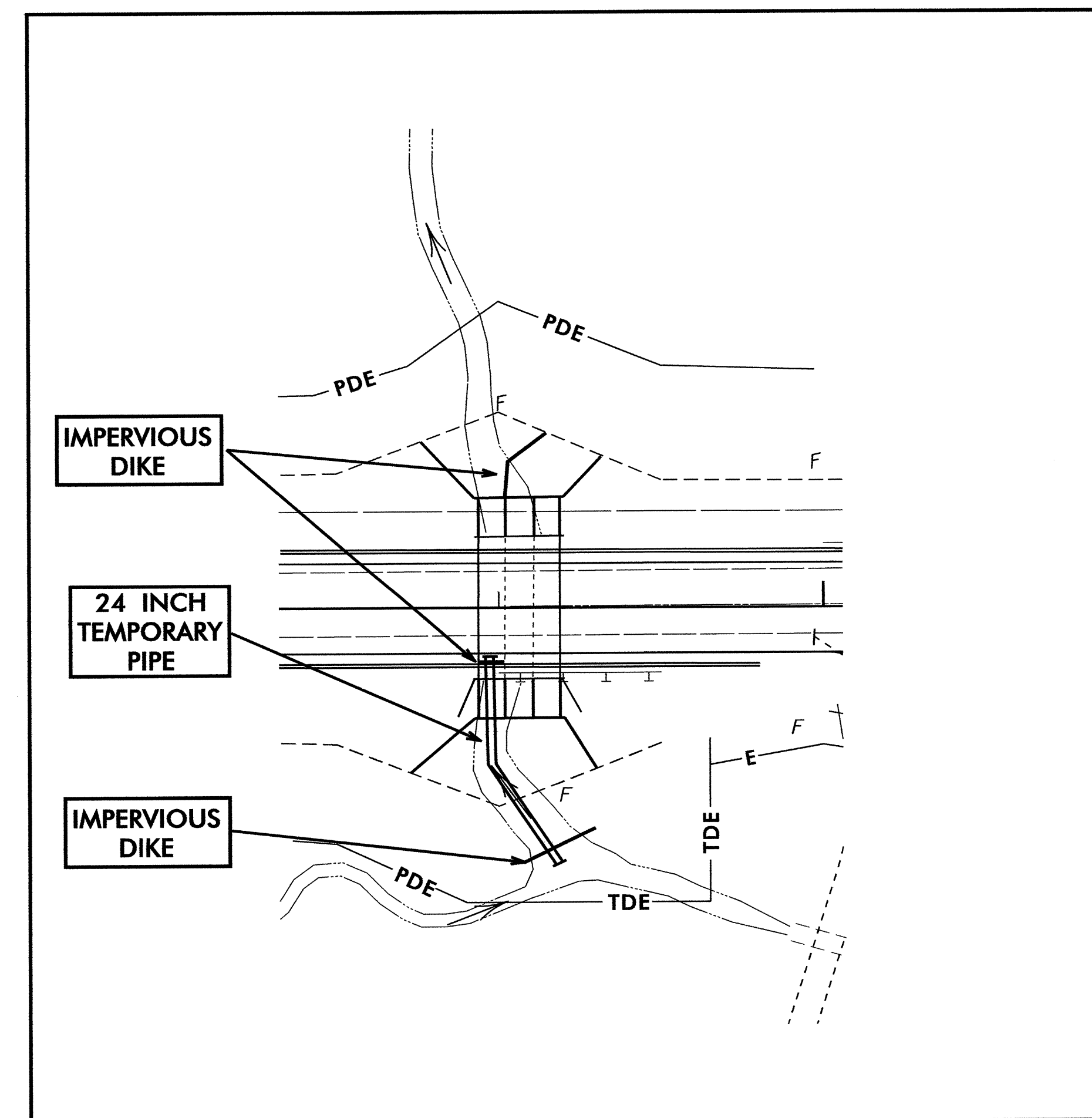
PHASE I

- 1.) INSTALL SPECIAL STILLING BASIN.
- 2.) INSTALL IMPERVIOUS DIKES AND 24" TEMPORARY PIPE.
- 3.) DIVERT FLOW THROUGH WESTERN MOST BARREL.
- 4.) CONSTRUCT DOWNSTREAM EXTENSIONS OF THE THREE BARRELS.



PHASE II

- 1.) REMOVE PHASE I DIKES AND TEMPORARY PIPE.
- 2.) INSTALL IMPERVIOUS DIKES AND 24" TEMPORARY PIPE.
- 3.) DIVERT FLOW THROUGH WESTERN MOST BARREL.
- 4.) CONSTRUCT UPSTREAM EXTENSIONS OF THE THREE BARRELS.
- 5.) COMPLETE CHANNEL IMPROVEMENTS AND COMPLETE ROADWAY.

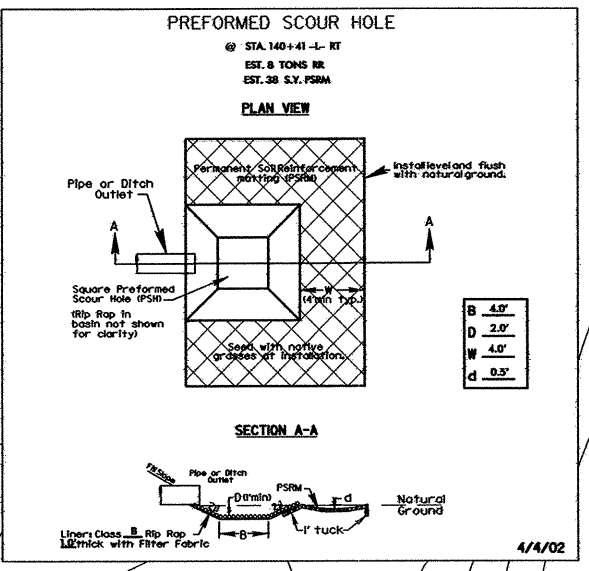


PROJECT REFERENCE NO. R-3415	SHEET NO. EC-15/CONST.13
RW SHEET NO. ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 13

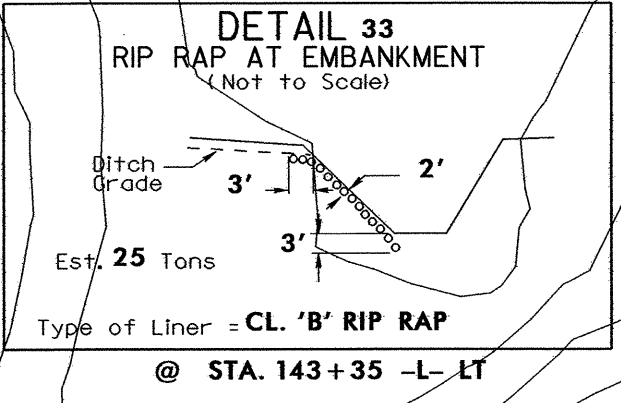
ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

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



PI Sta 136+99.99
Δ = 5° 31' 11.9" (RT)
D = 0' 45' 39.2"
L = 725.45'
T = 363.01'
R = 7,530.00'
SE =

PI Sta 145+11.21
Δ = 0° 15' 57.4" (LT)
D = 0' 06' 52.5"
L = 232.08'
T = 116.04'
R = 50,000.00'
SE =



35 x 12 x 3
2 inch Skimmer
with 1.5 inch
Orifice Diameter
6 ft. weir

23 x 8 x 3
4' weir

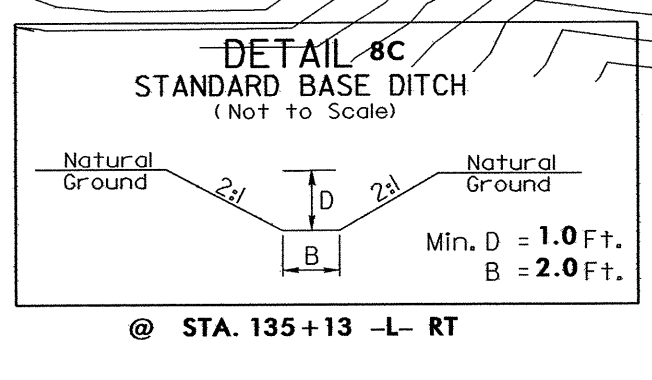
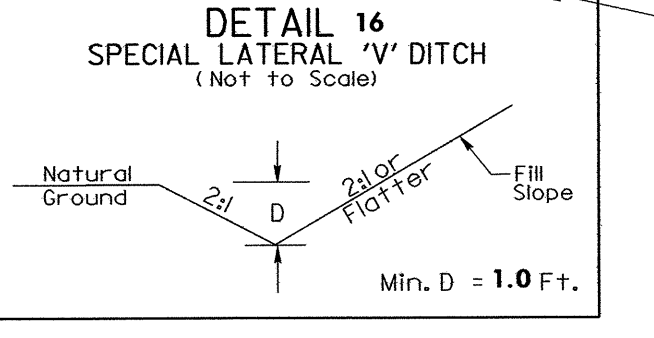
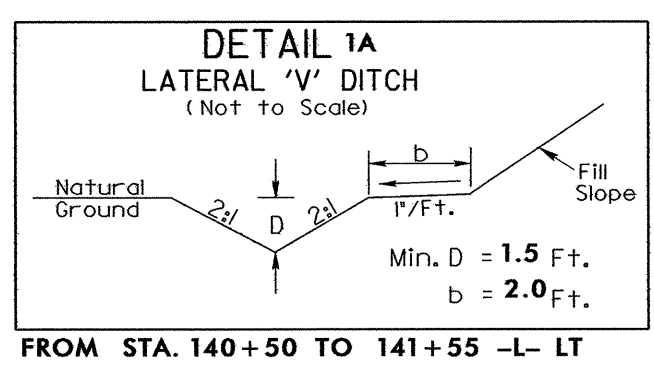
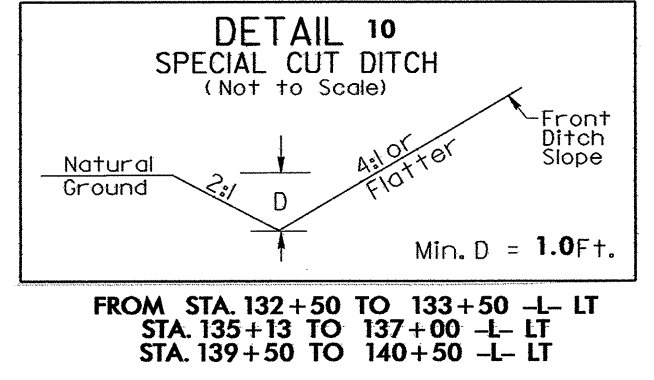
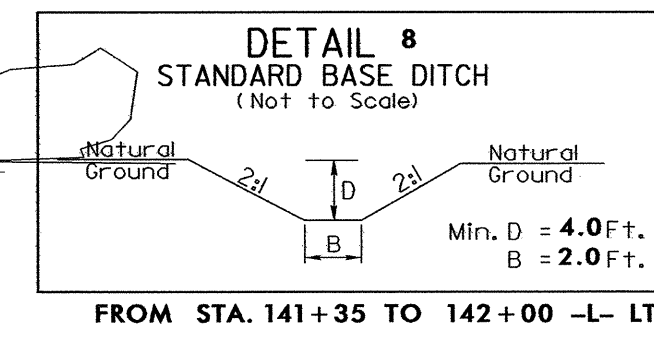
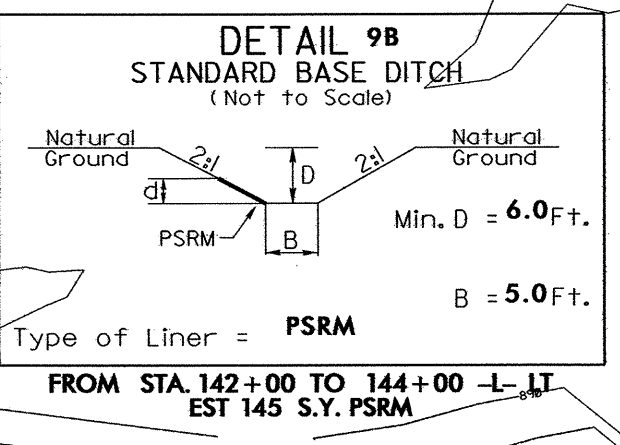
19 x 6 x 3
4' weir

20 x 7 x 3
4' weir

24 x 8 x 3
4' weir

17 x 6 x 3
4' weir

103 x 10 x 3
8' weir



MATCH LINE SHEET 12

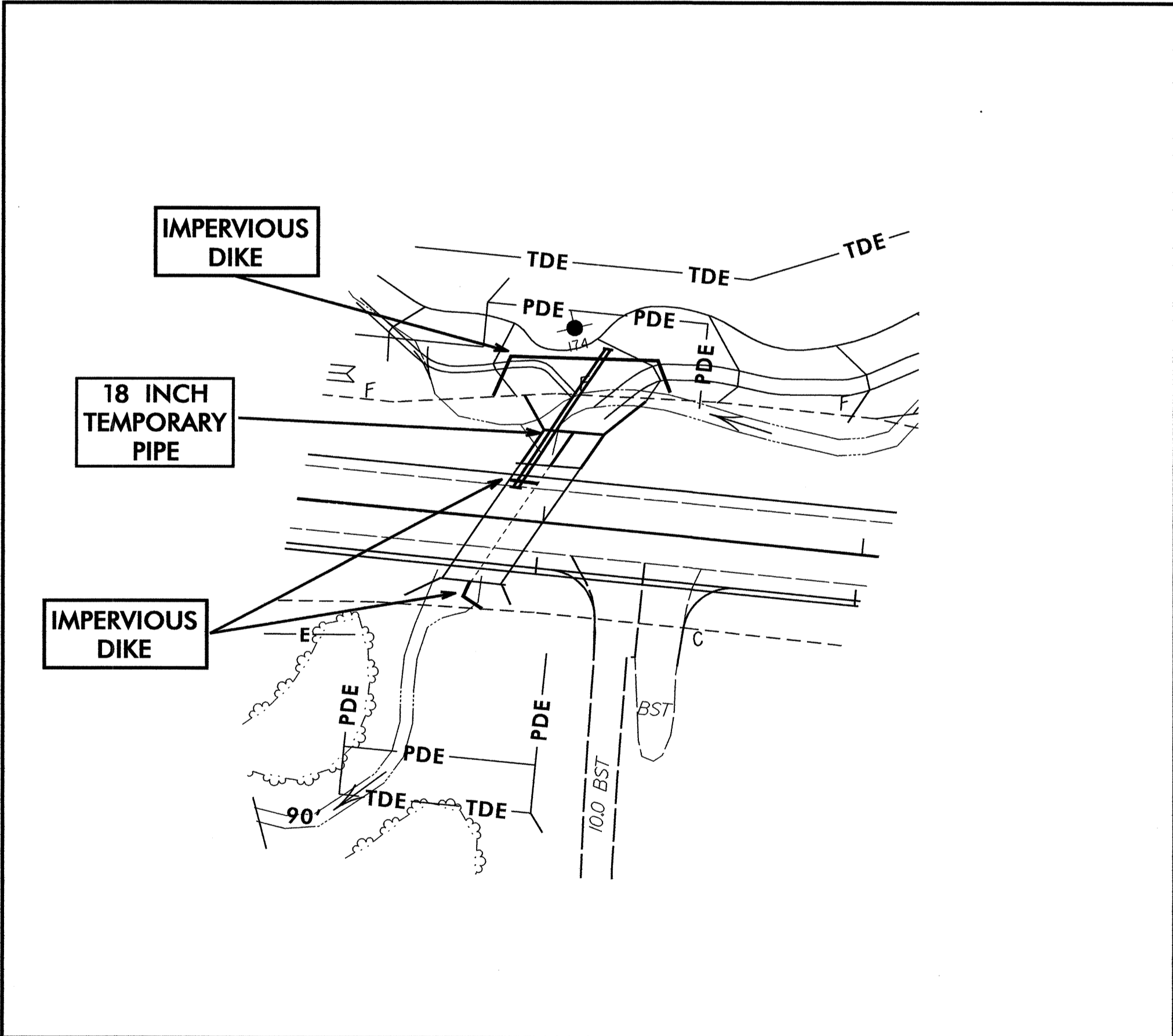
MATCH LINE SHEET 14

PROJECT REFERENCE NO. R-3415	SHEET NO. EC-16CONST.13
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CULVERT CONSTRUCTION SEQUENCE STA. 141+90 -L-

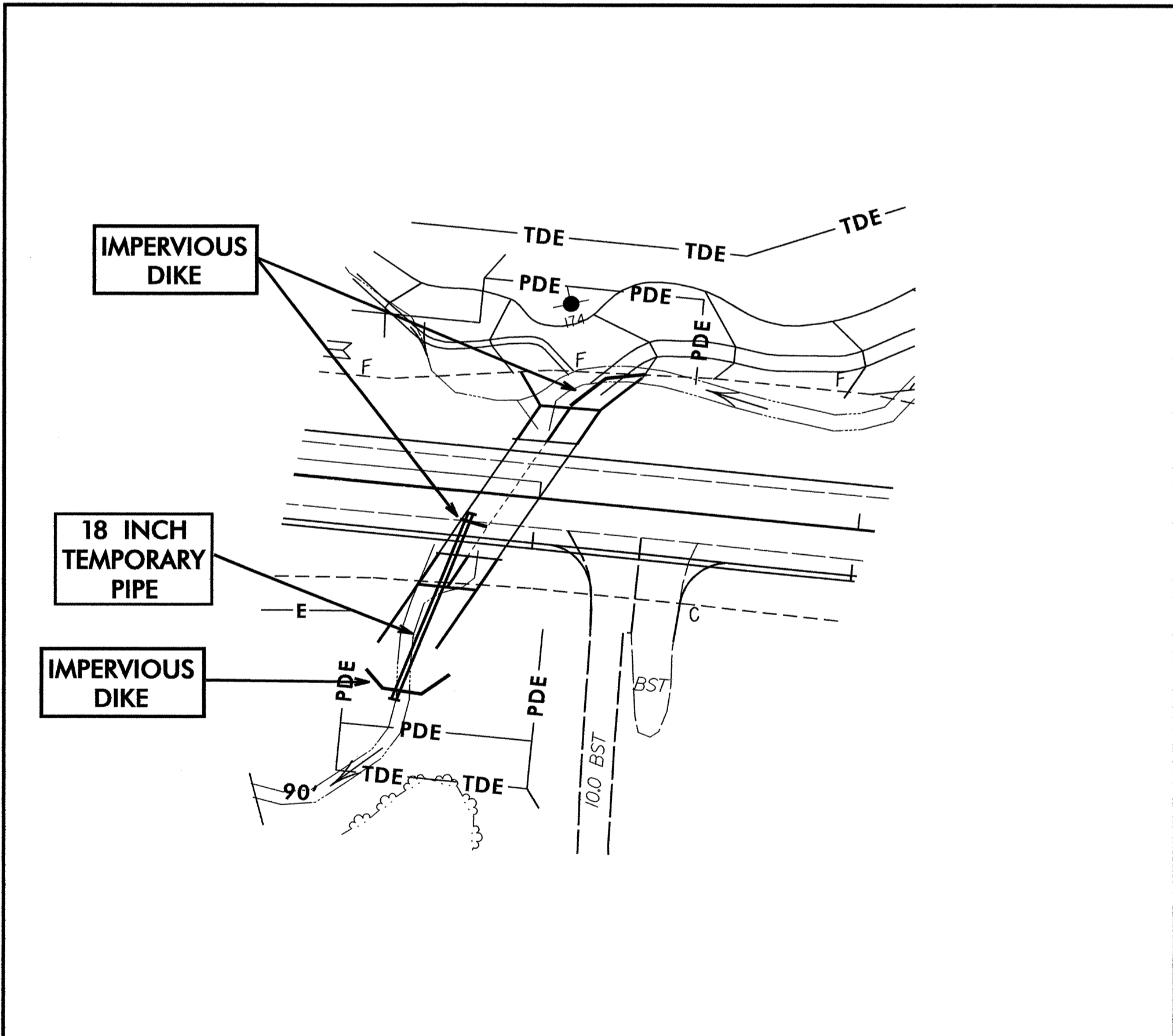
PHASE I

- 1.) COMPLETE INLET RELOCATED CHANNEL IMPROVEMENTS.
- 2.) INSTALL SPECIAL STILLING BASIN.
- 3.) INSTALL TEMPORARY IMPERVIOUS DIKES AND 18" TEMPORARY PIPE.
- 4.) DIVERT FLOW INTO WESTERN MOST BARREL.
- 5.) CONSTRUCT UPSTREAM EXTENSIONS OF BOTH BARRELS.



PHASE II

- 1.) REMOVE PHASE I IMPERVIOUS DIKES AND 18" TEMPORARY PIPE.
- 2.) INSTALL TEMPORARY IMPERVIOUS DIKES AND 18" TEMPORARY PIPE.
- 3.) DIVERT FLOW INTO WESTERNMOST BARREL.
- 4.) CONSTRUCT DOWNSTREAM EXTENSIONS OF BOTH BARRELS.
- 5.) COMPLETE CHANNEL IMPROVEMENTS AND FINISH ROADWAY.

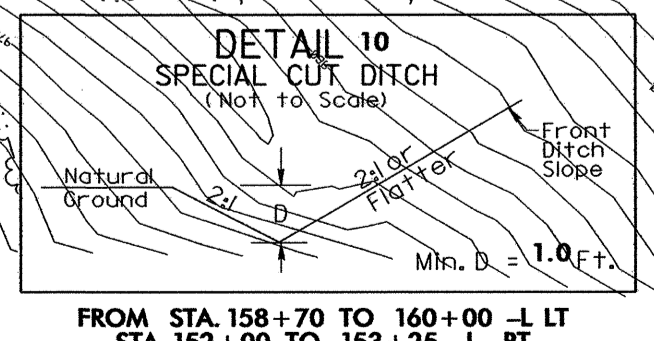
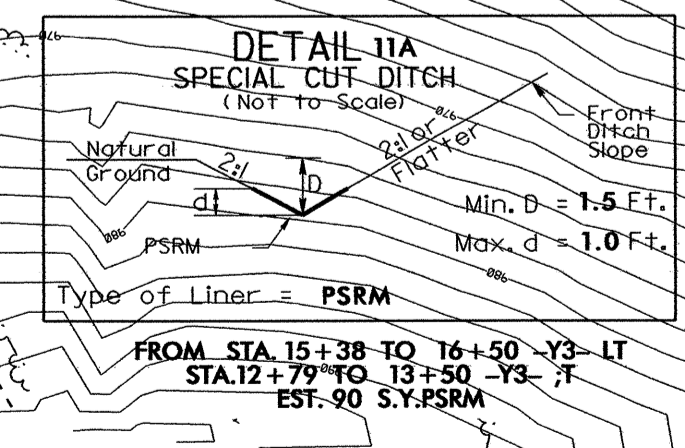
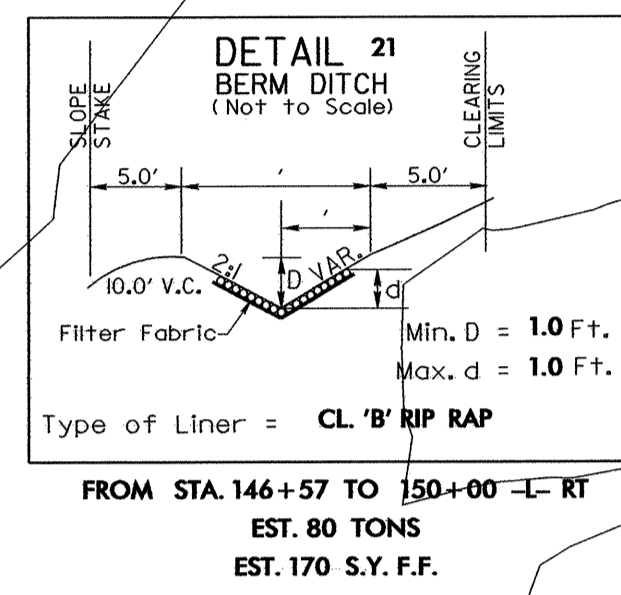
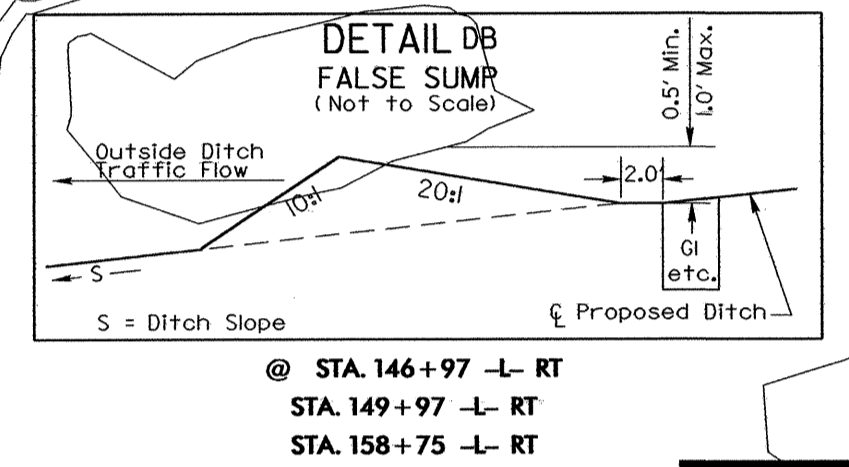
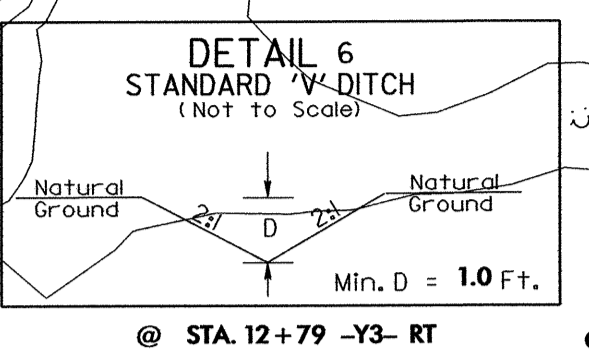
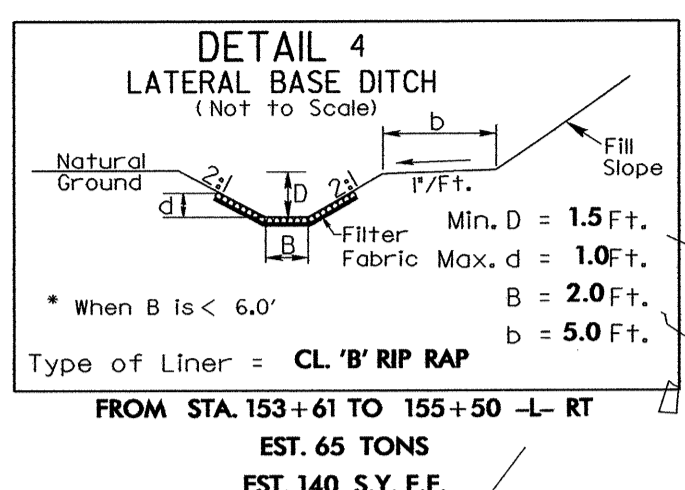
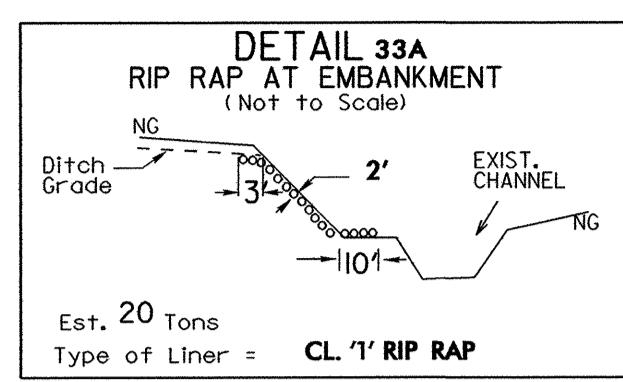
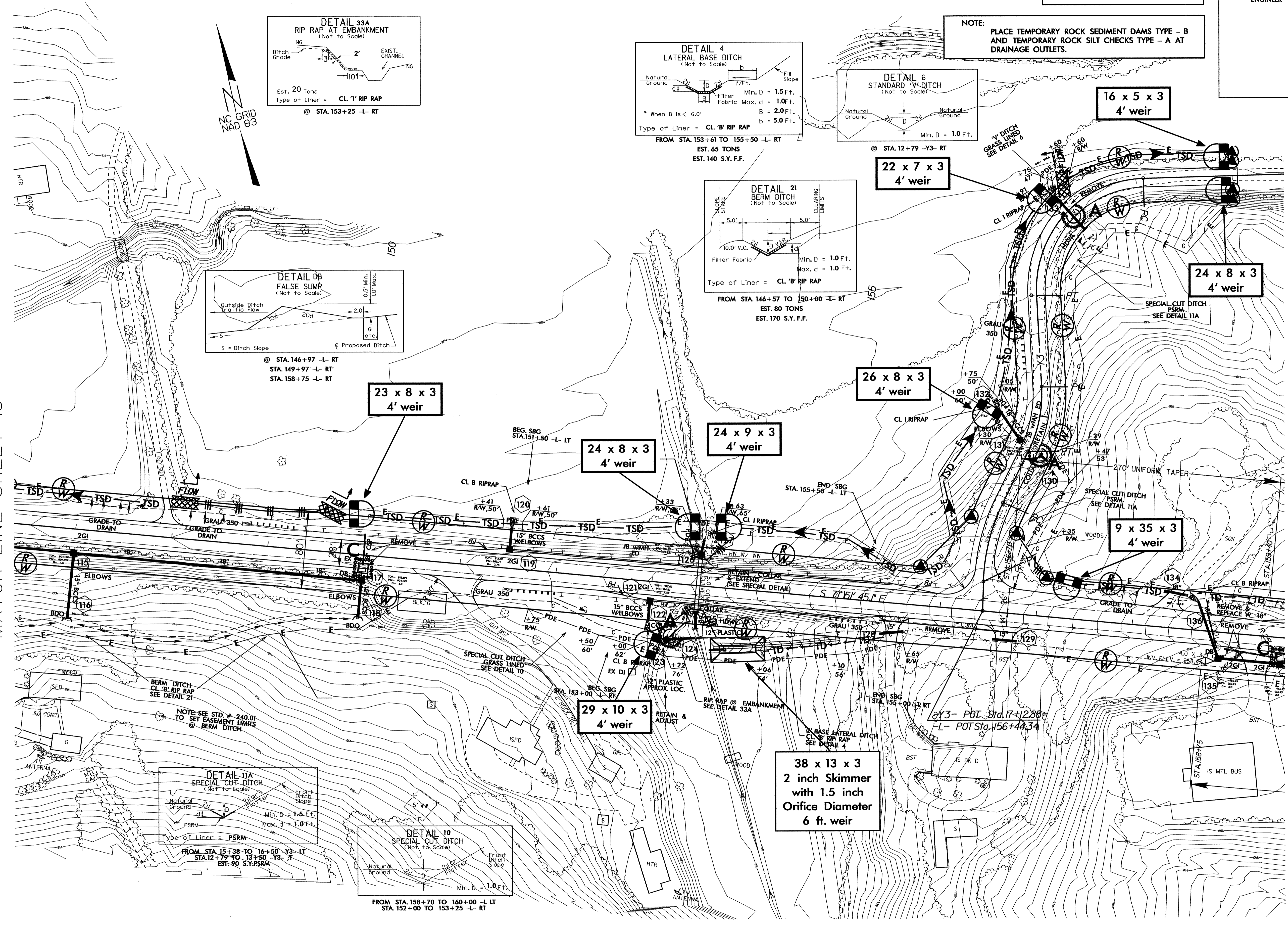


CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 14

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

MATCH LINE SHEET 13

MATCH LINE SHEET 15



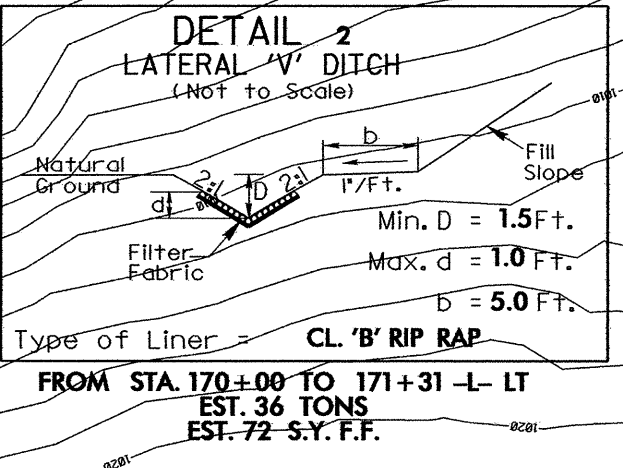
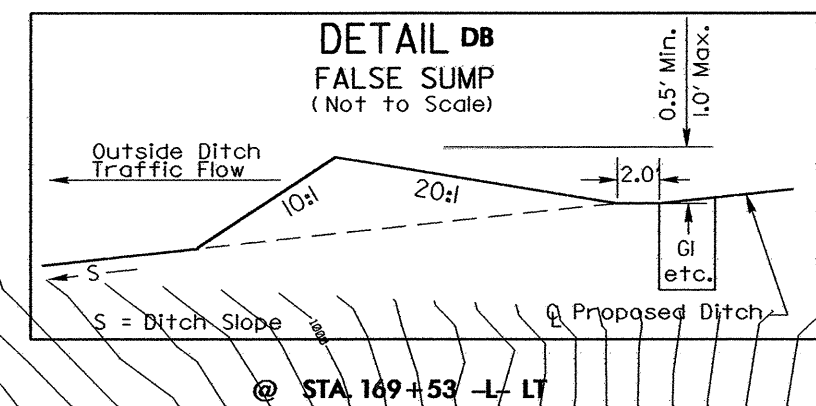
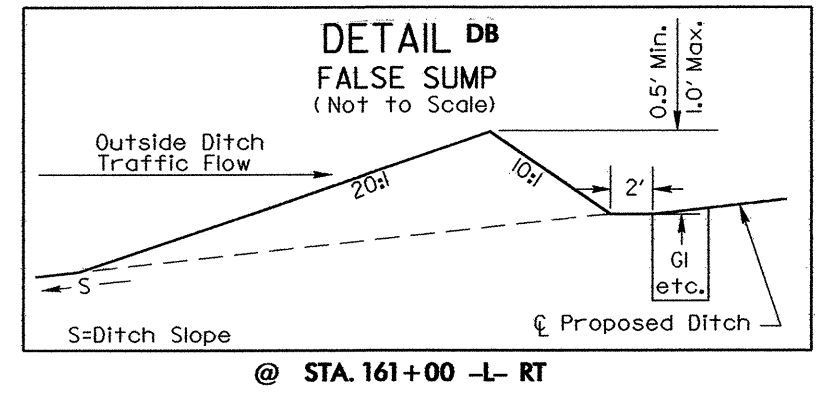
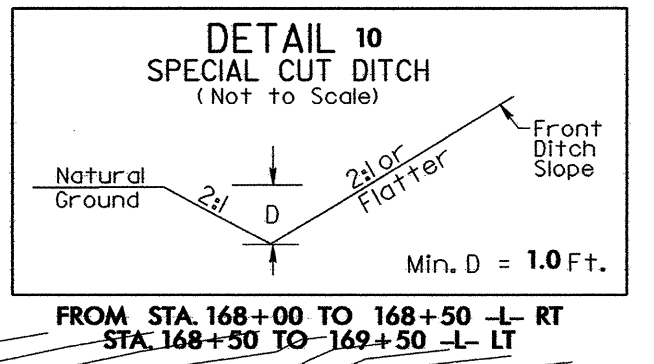
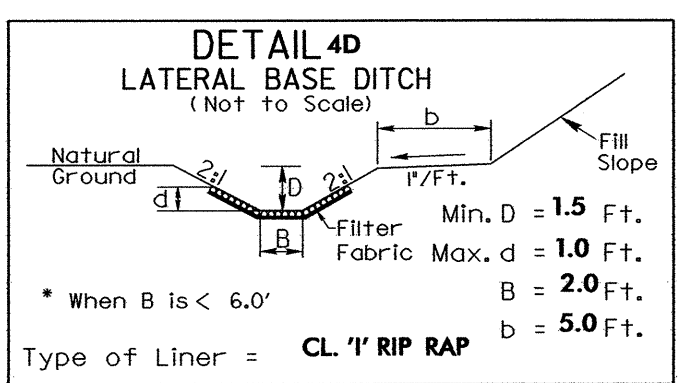
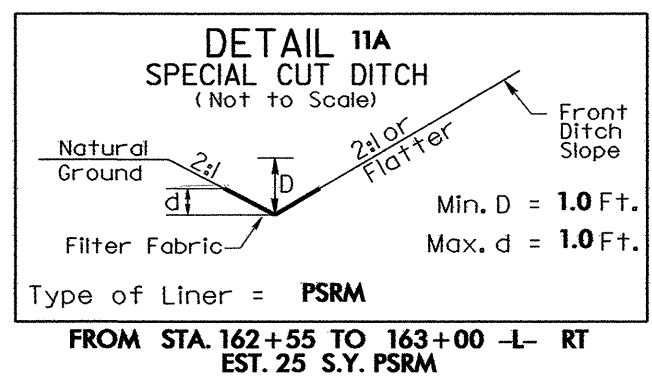
38 x 13 x 3
2 inch Skimmer
with 1.5 inch
Orifice Diameter
6 ft. weir

NOTE: SEE STD. # 240.01
TO SET EASEMENT LIMITS
@ BERM DITCH

Y3 - POT Sta. 17+288
L- POT Sta. 156+4434

PROJECT REFERENCE NO. R-3415	SHEET NO. EC-18/CONST.15
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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



28 x 14 x 3
2 inch Skimmer
with 1.5 inch
Orifice Diameter
5 ft. weir
(See Tiered Skimmer
Basin Detail)

Modified Silt Basin
Type 'B'
28 x 14 x 3
5 ft. weir
(See Tiered Skimmer
Basin Detail)

25 x 8 x 3
4' weir

39 x 12 x 3
2 inch Skimmer
with 1.5 inch
Orifice Diameter
5 ft. weir

31 x 15 x 3
2 inch Skimmer
with 1.5 inch
Orifice Diameter
10 ft. weir
(See Tiered Skimmer
Basin Detail)

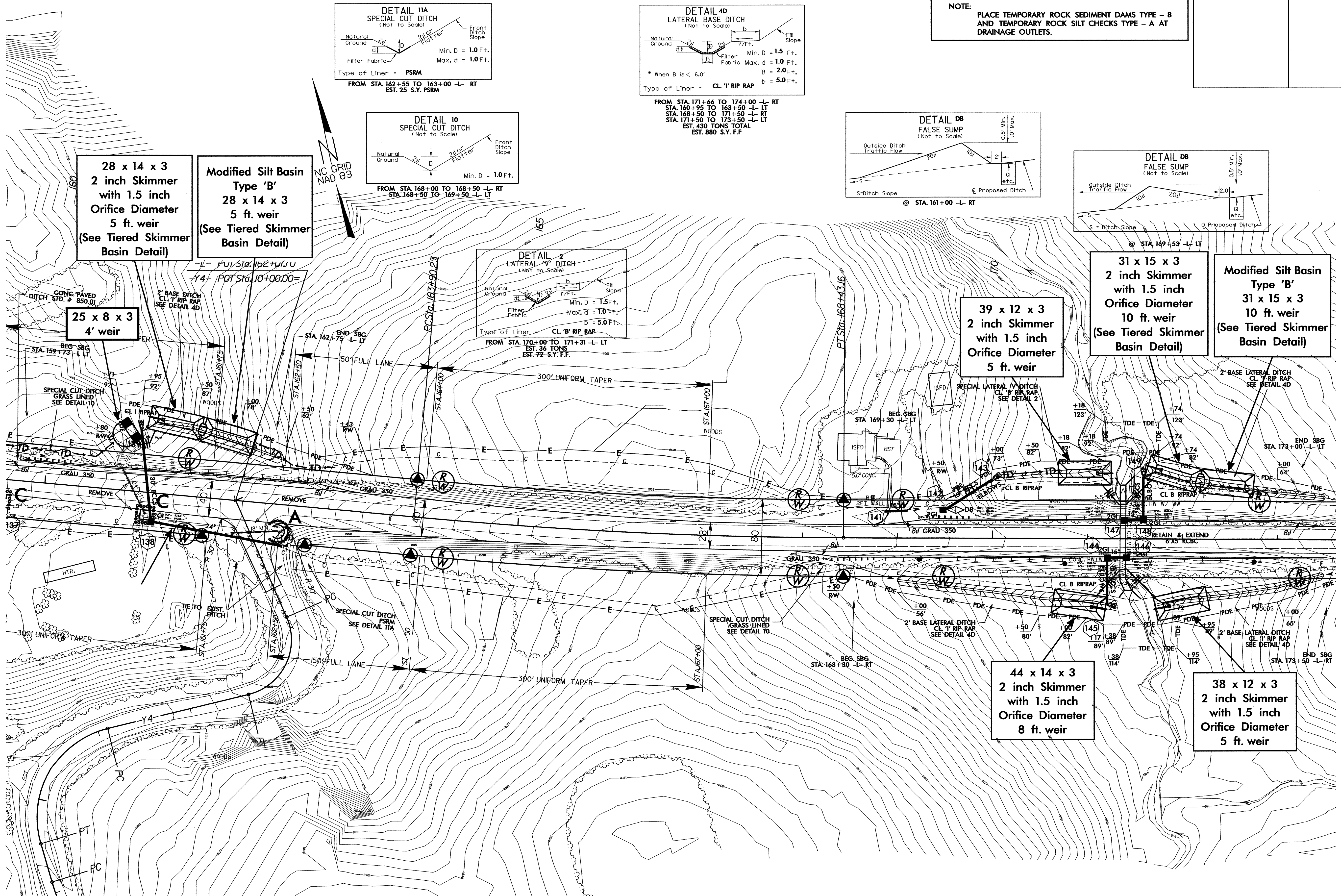
Modified Silt Basin
Type 'B'
31 x 15 x 3
10 ft. weir
(See Tiered Skimmer
Basin Detail)

44 x 14 x 3
2 inch Skimmer
with 1.5 inch
Orifice Diameter
8 ft. weir

38 x 12 x 3
2 inch Skimmer
with 1.5 inch
Orifice Diameter
5 ft. weir

MATCH LINE SHEET 14

MATCH LINE SHEET 16

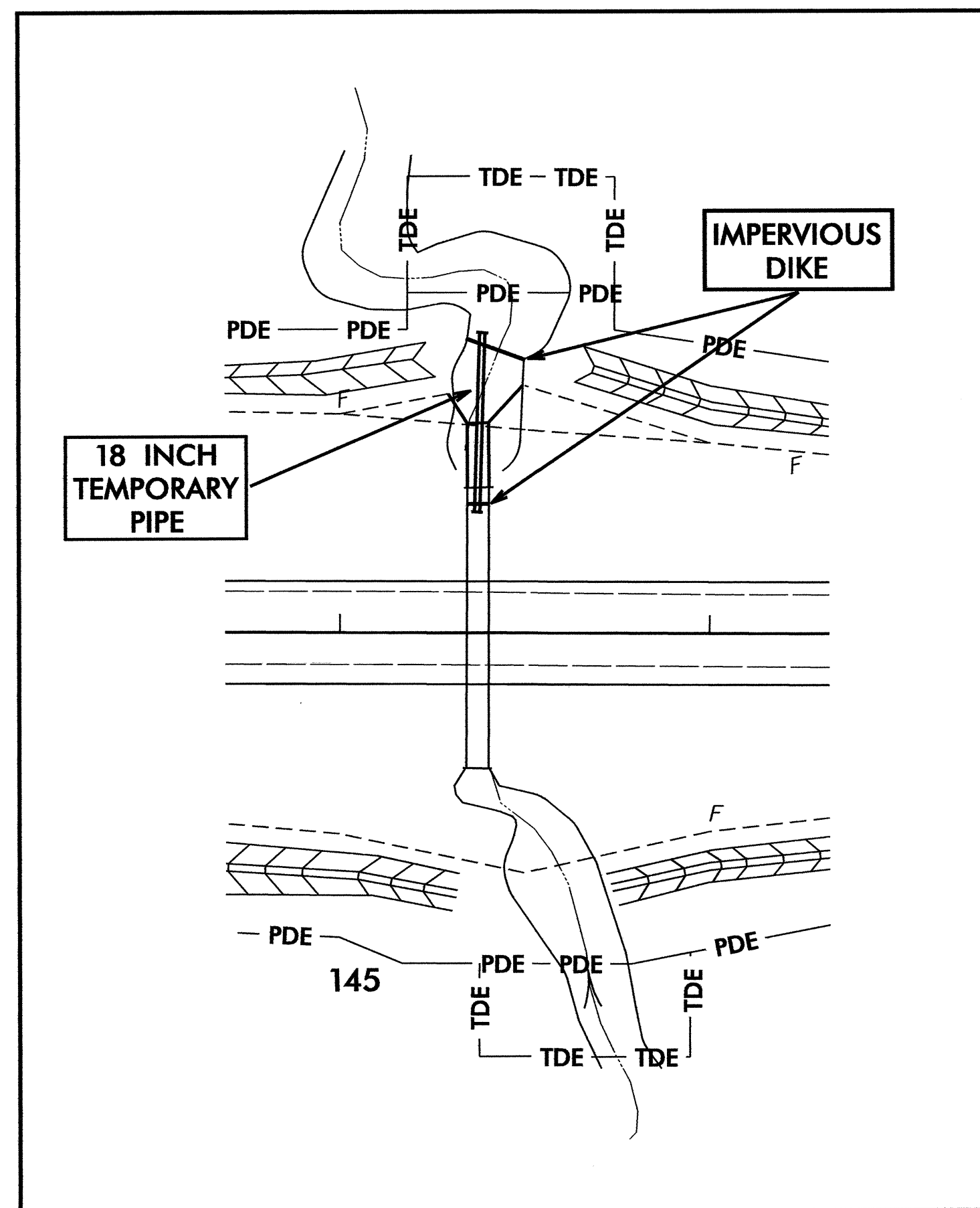


PROJECT REFERENCE NO.	SHEET NO.
R-3415	EC-19/CONST.15
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CULVERT CONSTRUCTION SEQUENCE STA. 171+37 -L-

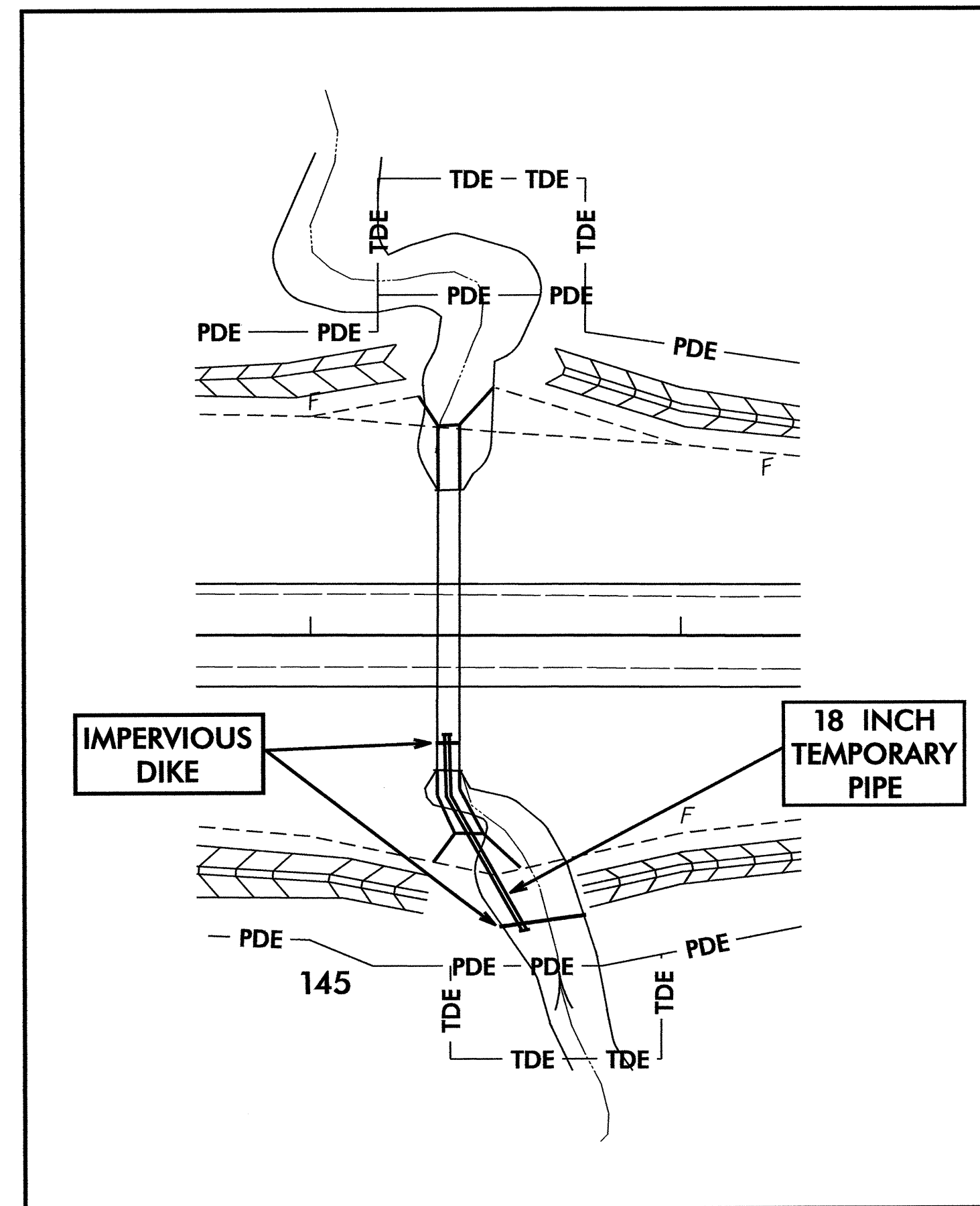
PHASE I

- 1.) INSTALL SPECIAL STILLING BASIN.
- 2.) INSTALL TEMPORARY IMPERVIOUS DIKES AND TEMPORARY 18" PIPE.
- 3.) DIVERT FLOW THROUGH THE DIKES.
- 4.) CONSTRUCT DOWNSTREAM EXTENSION.



PHASE II

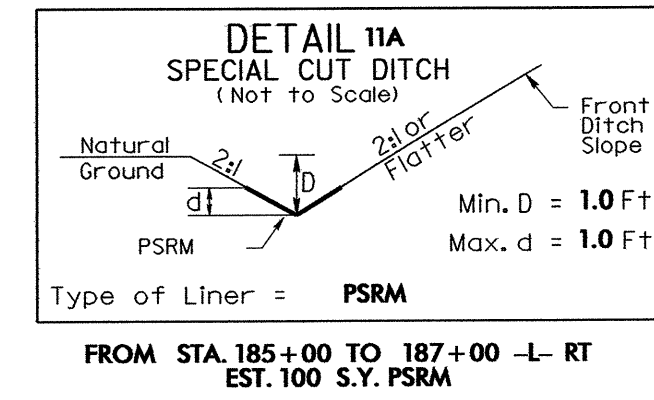
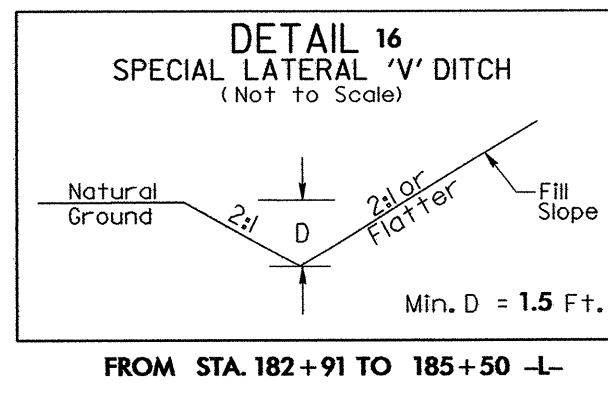
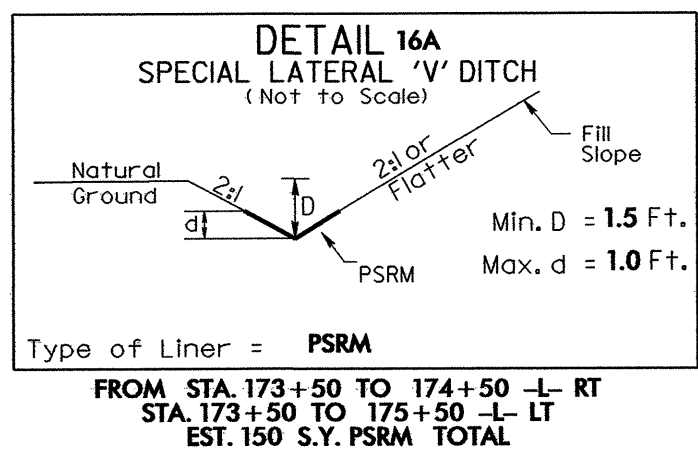
- 1.) REMOVE PHASE I IMPERVIOUS DIKES AND PIPE.
- 2.) INSTALL TEMPORARY IMPERVIOUS DIKES AND TEMPORARY 18" PIPE.
- 3.) DIVERT FLOW THROUGH THE BARREL.
- 4.) CONSTRUCT DOWNSTREAM EXTENSION.
- 5.) COMPLETE CHANNEL IMPROVEMENTS AND FINISH ROADWAY.



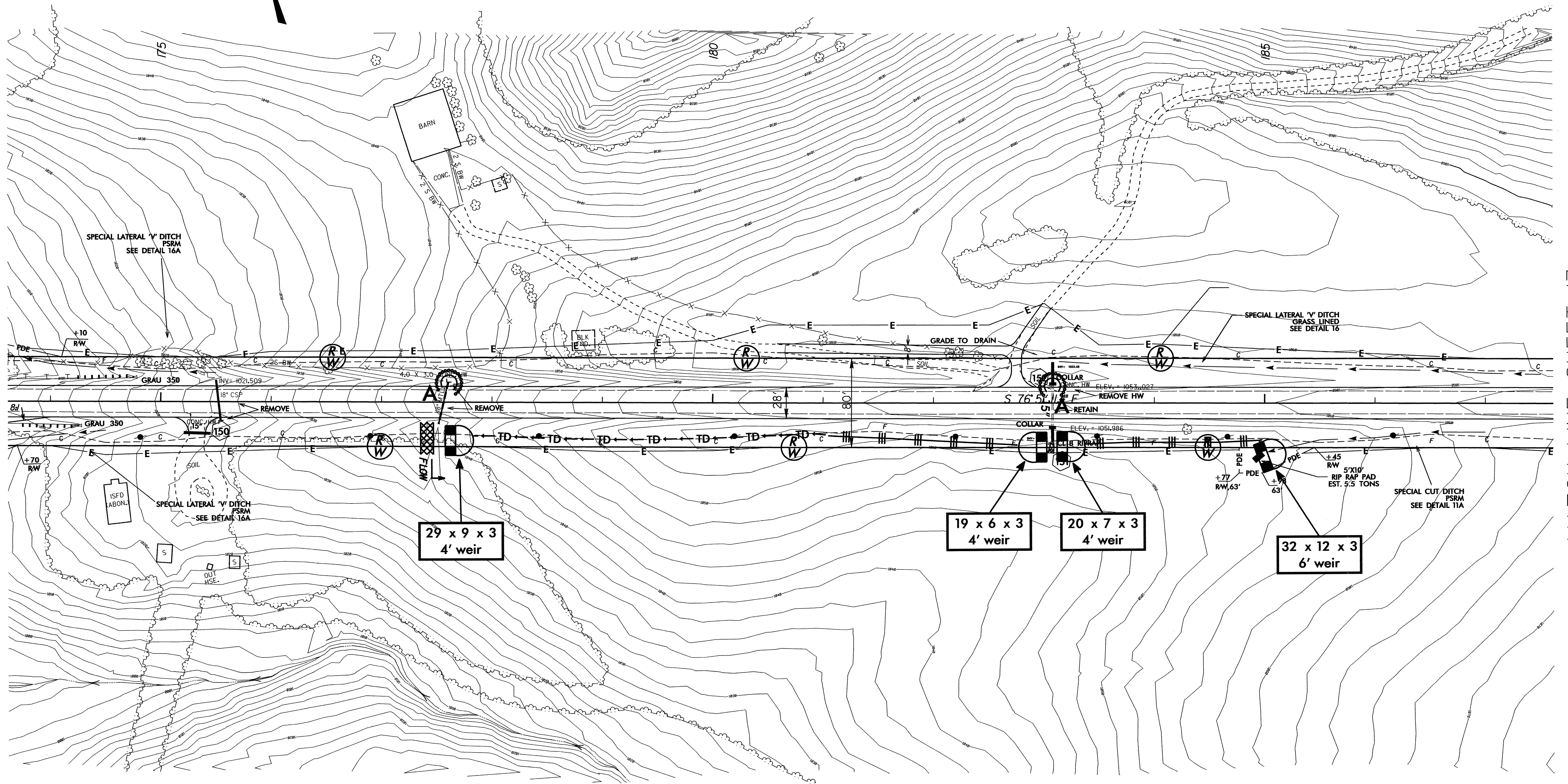
PROJECT REFERENCE NO.	SHEET NO.
R-3415	EC-20/CONST.16
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 16

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



MATCH LINE SHEET 15

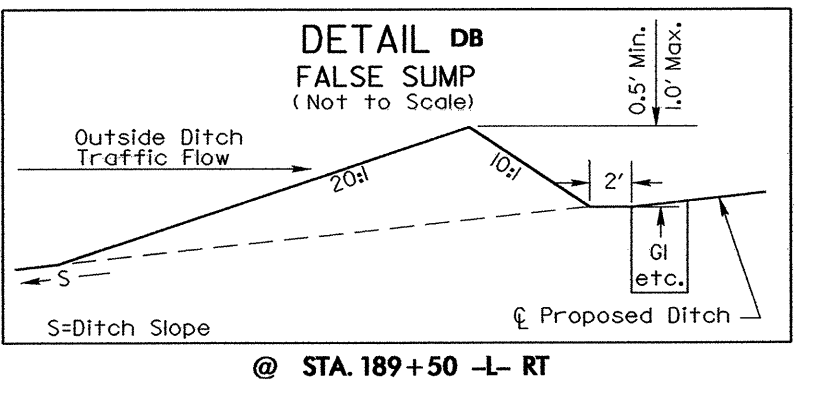
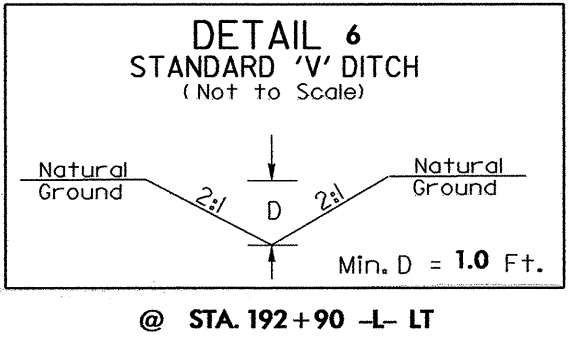
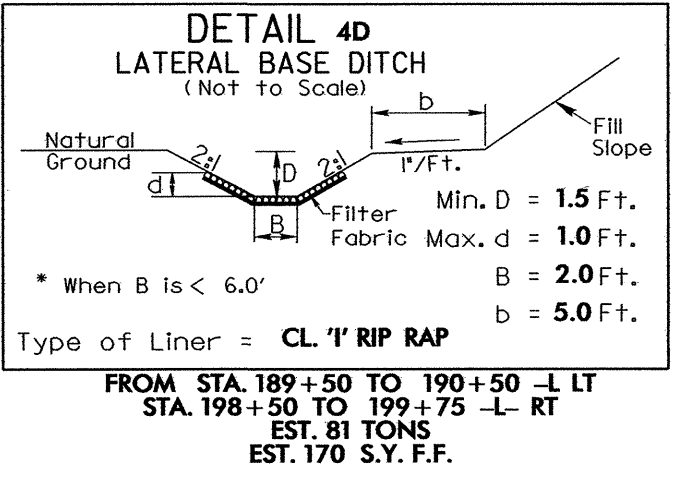


MATCH LINE SHEET 17

**CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 17**

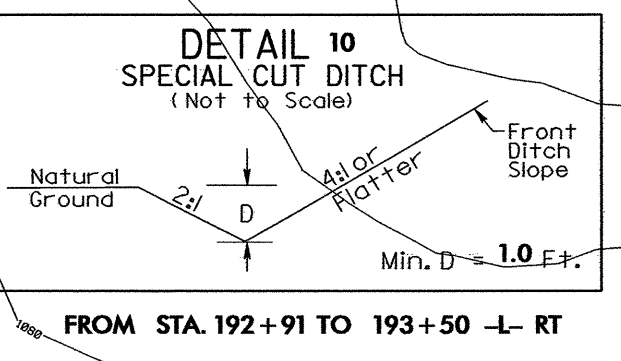
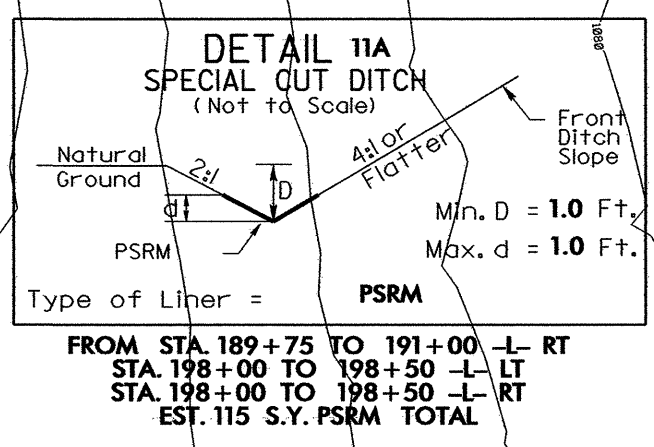
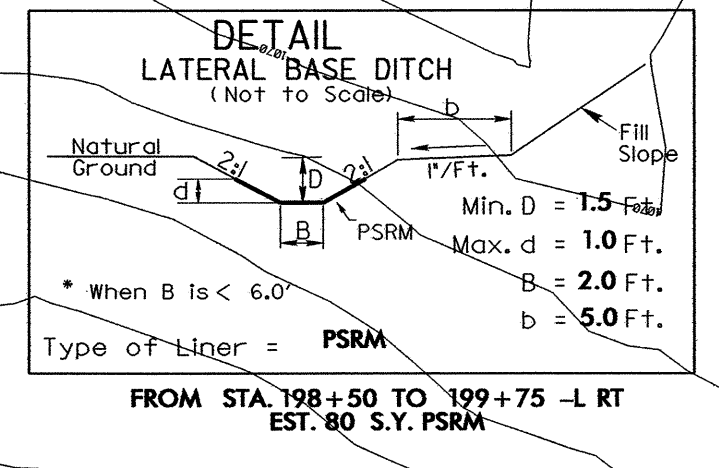
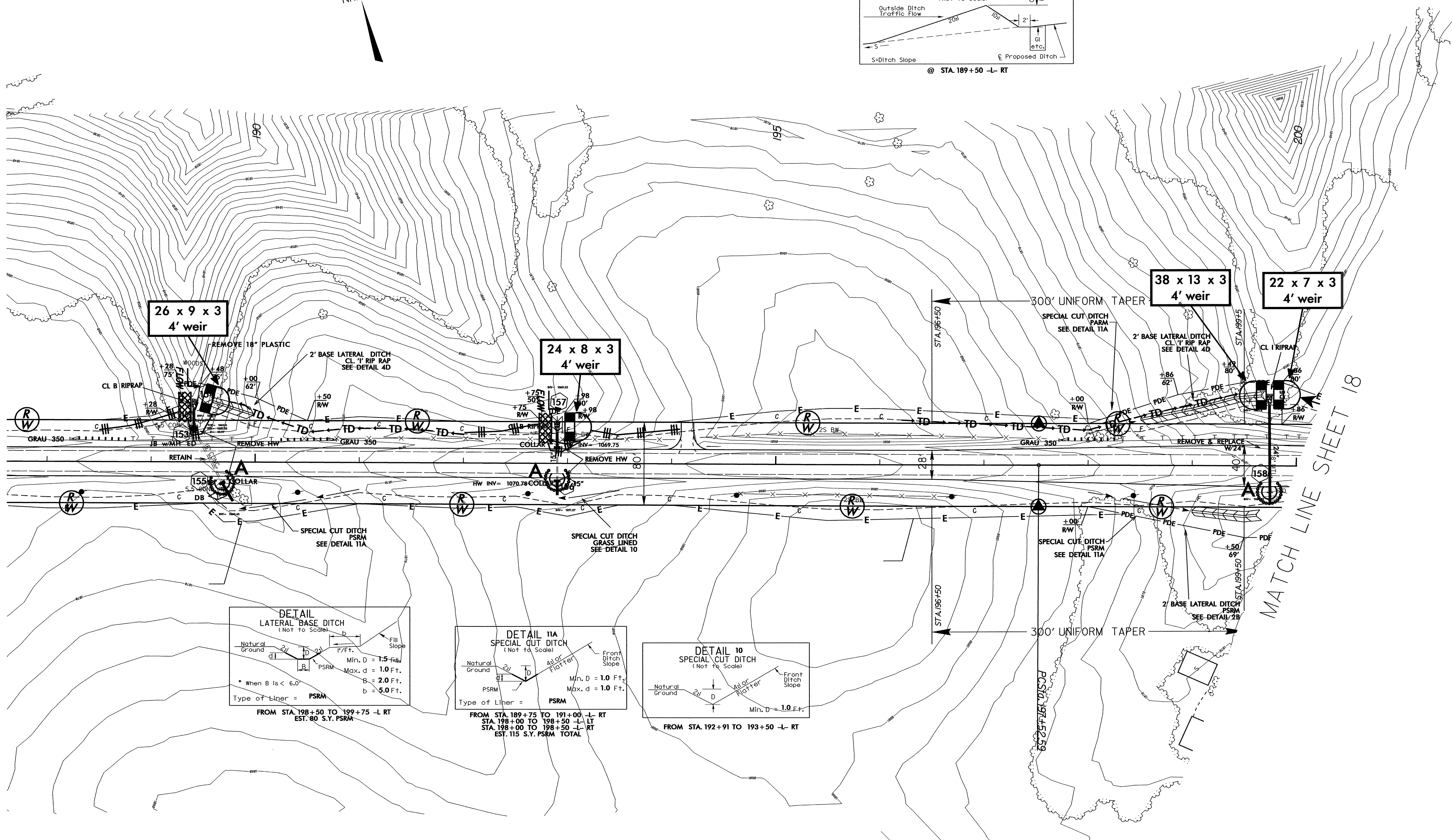
PROJECT REFERENCE NO. <i>R-3415</i>	SHEET NO. EC-21/CONST.17
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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



MATCH LINE SHEET 16

MATCH LINE SHEET 18

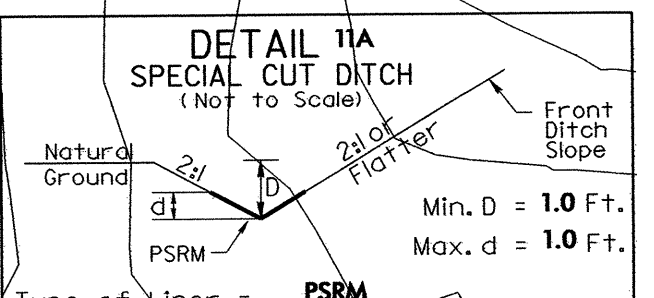
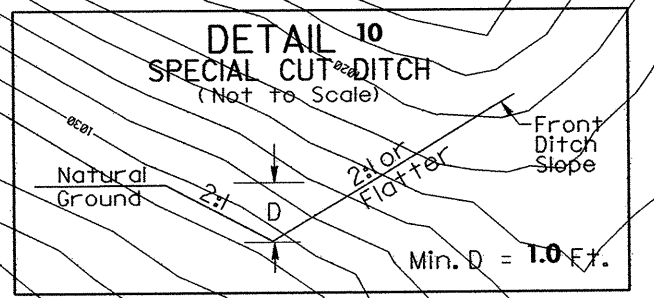
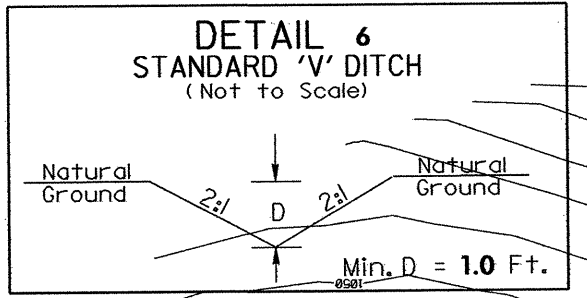


PROJECT REFERENCE NO. <i>R-3415</i>	SHEET NO. EC-22/CONST.18
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 18

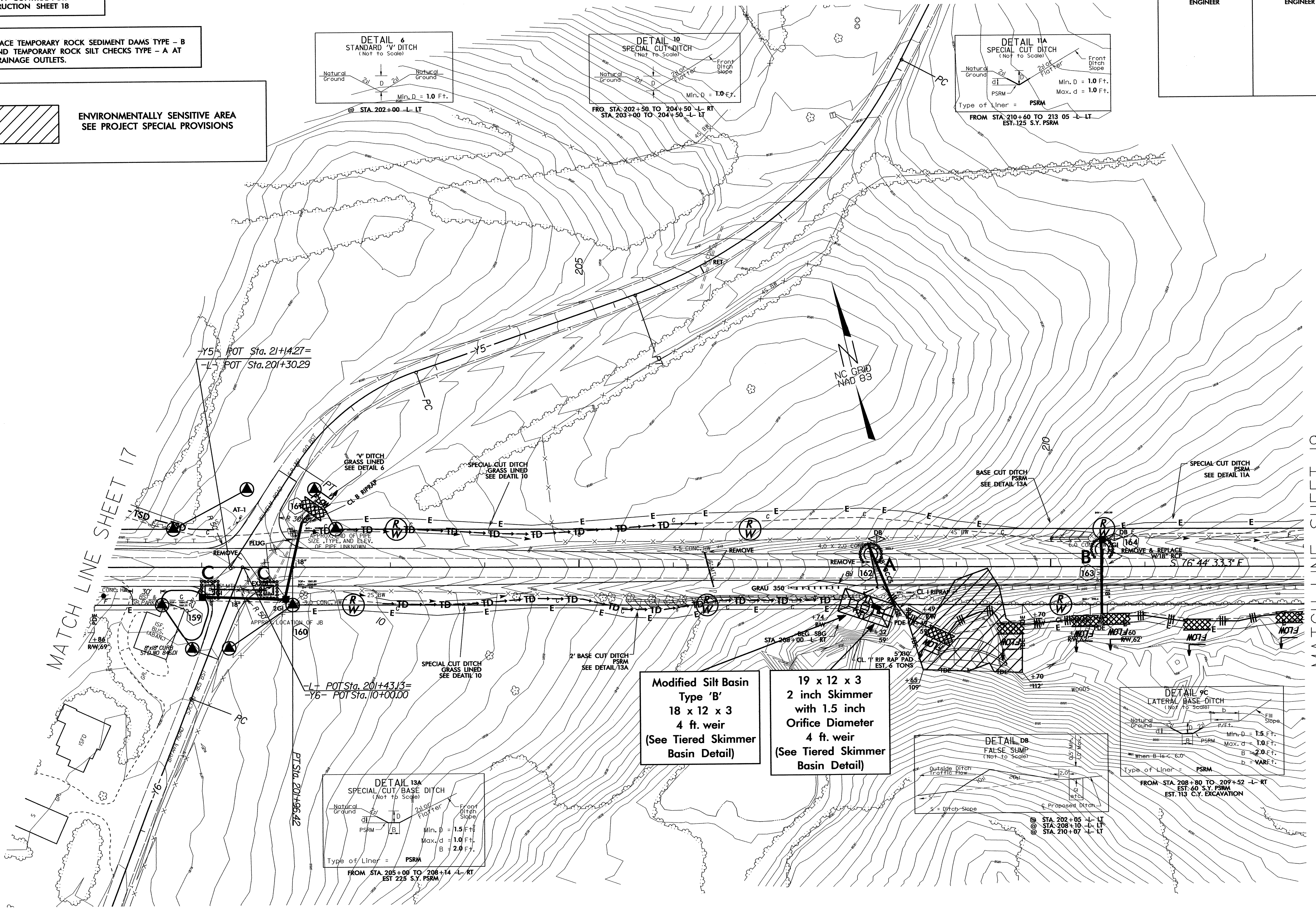
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

 ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS



MATCH LINE SHEET 17

MATCH LINE SHEET 19



CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 19

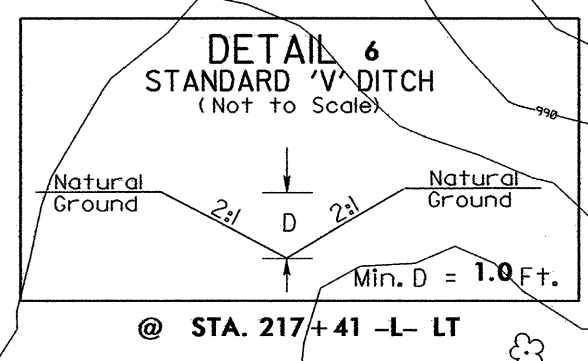
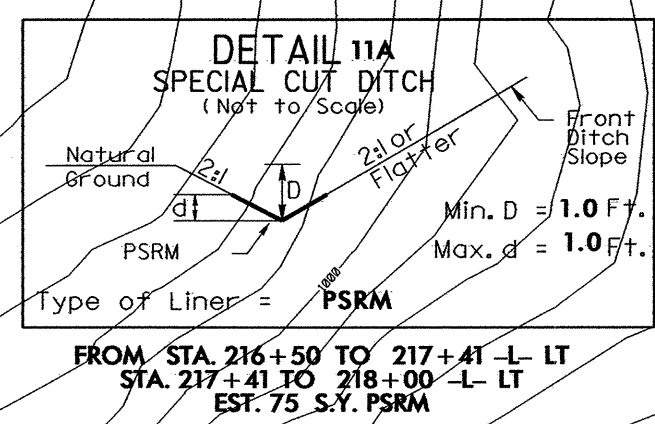
PROJECT REFERENCE NO. R-3415	SHEET NO. EC-23/CONST.19
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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



MATCH LINE SHEET 18

MATCH LINE SHEET 20



33 x 10 x 3
2 inch Skimmer
with 1.5 inch
Orifice Diameter
4 ft. weir

23 x 8 x 3
2 inch Skimmer
with 1.5 inch
Orifice Diameter
4 ft. weir

21 x 7 x 3
4' weir

36 x 12 x 3
2 inch Skimmer
with 1.5 inch
Orifice Diameter
4 ft. weir

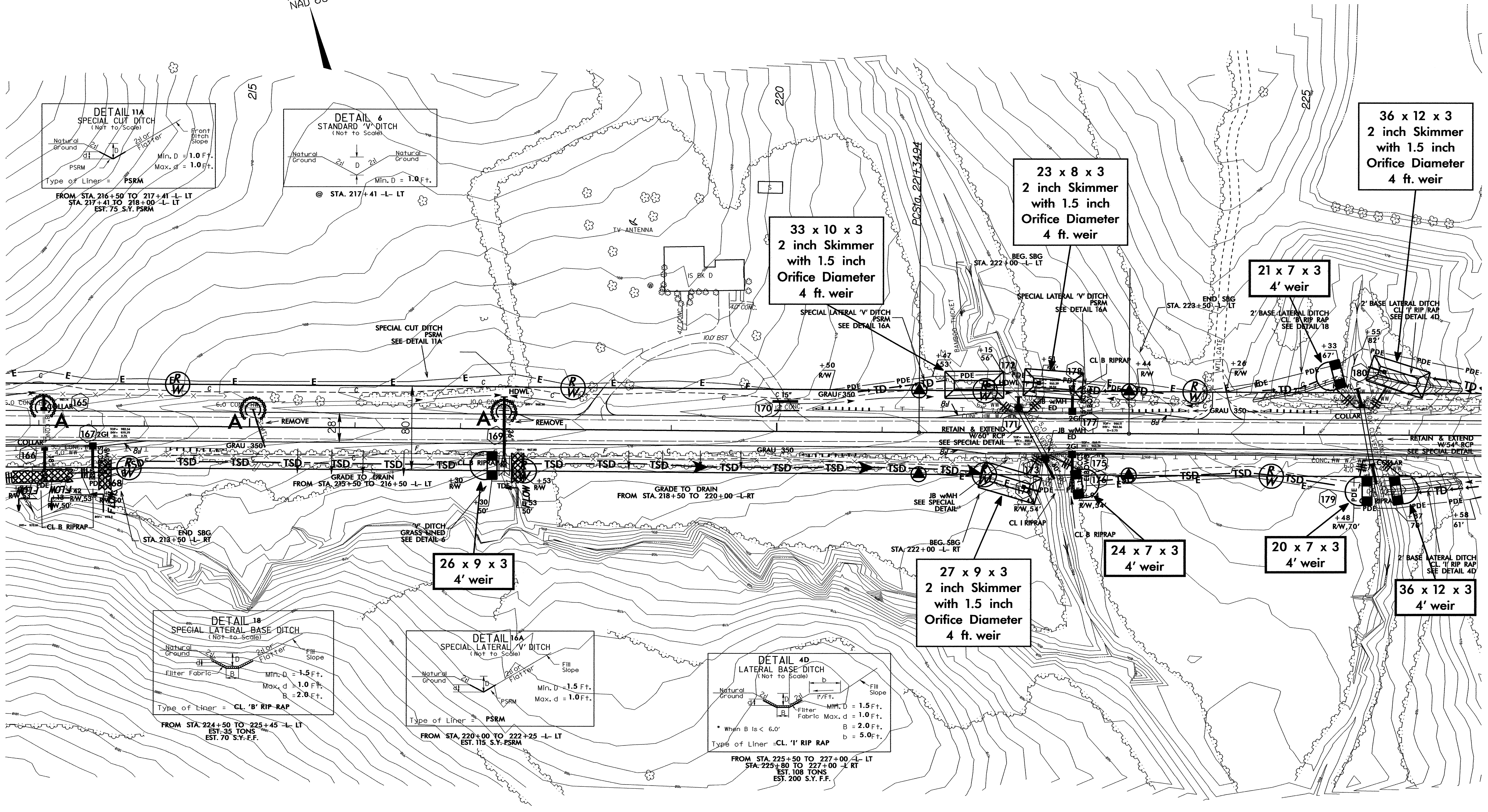
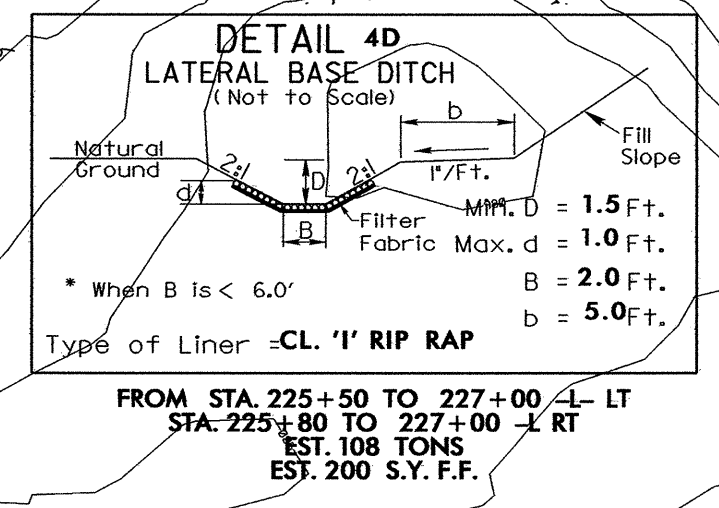
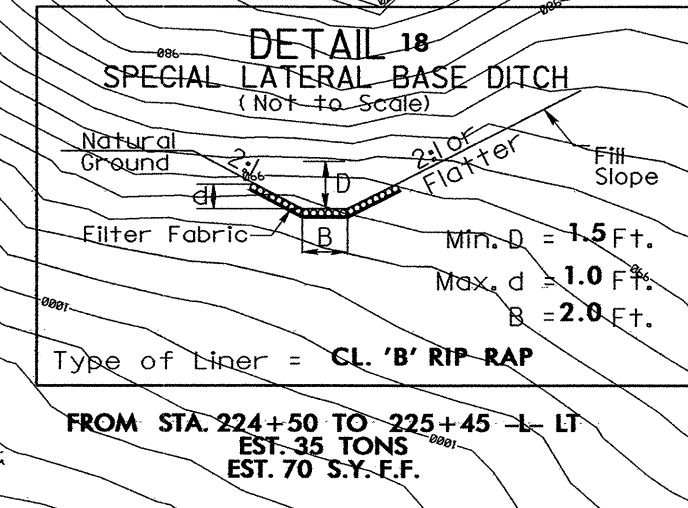
26 x 9 x 3
4' weir

27 x 9 x 3
2 inch Skimmer
with 1.5 inch
Orifice Diameter
4 ft. weir

24 x 7 x 3
4' weir

20 x 7 x 3
4' weir

36 x 12 x 3
4' weir



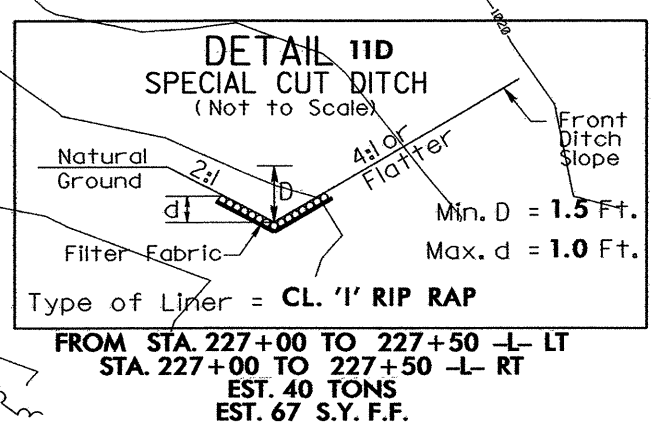
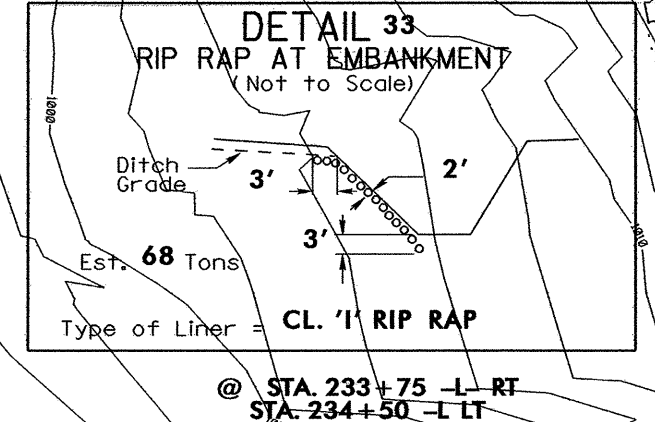
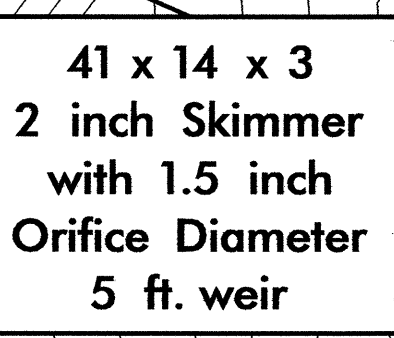
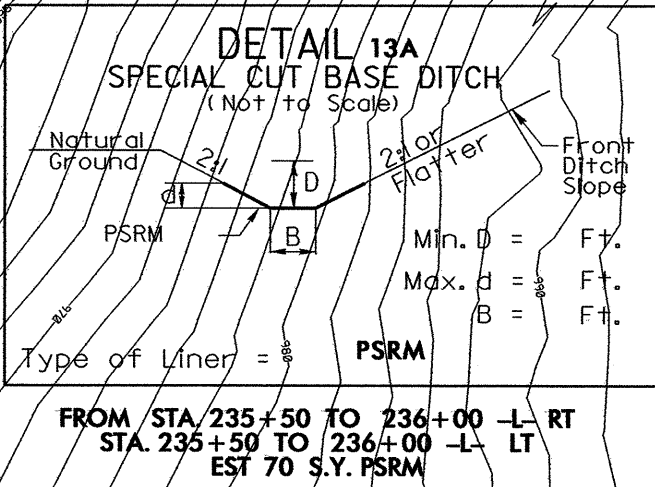
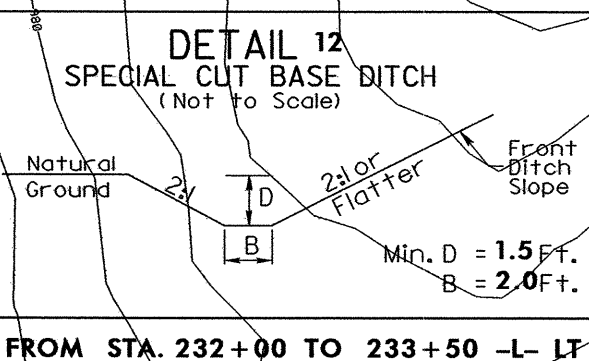
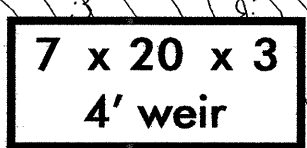
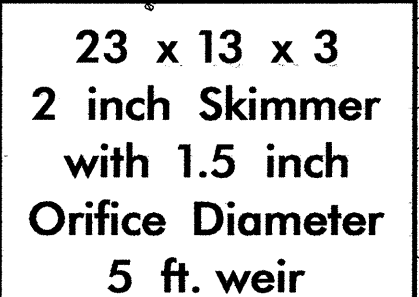
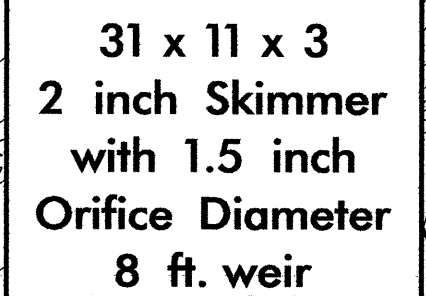
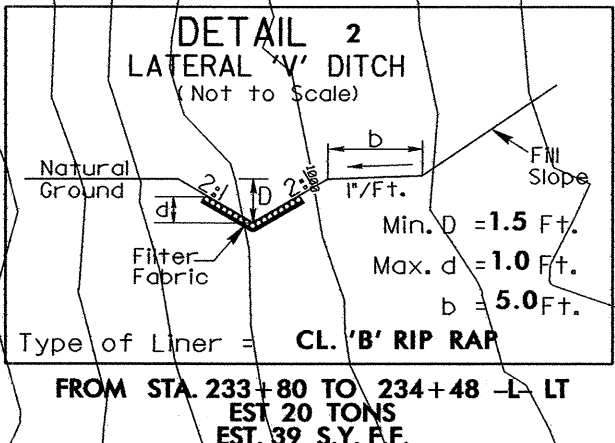
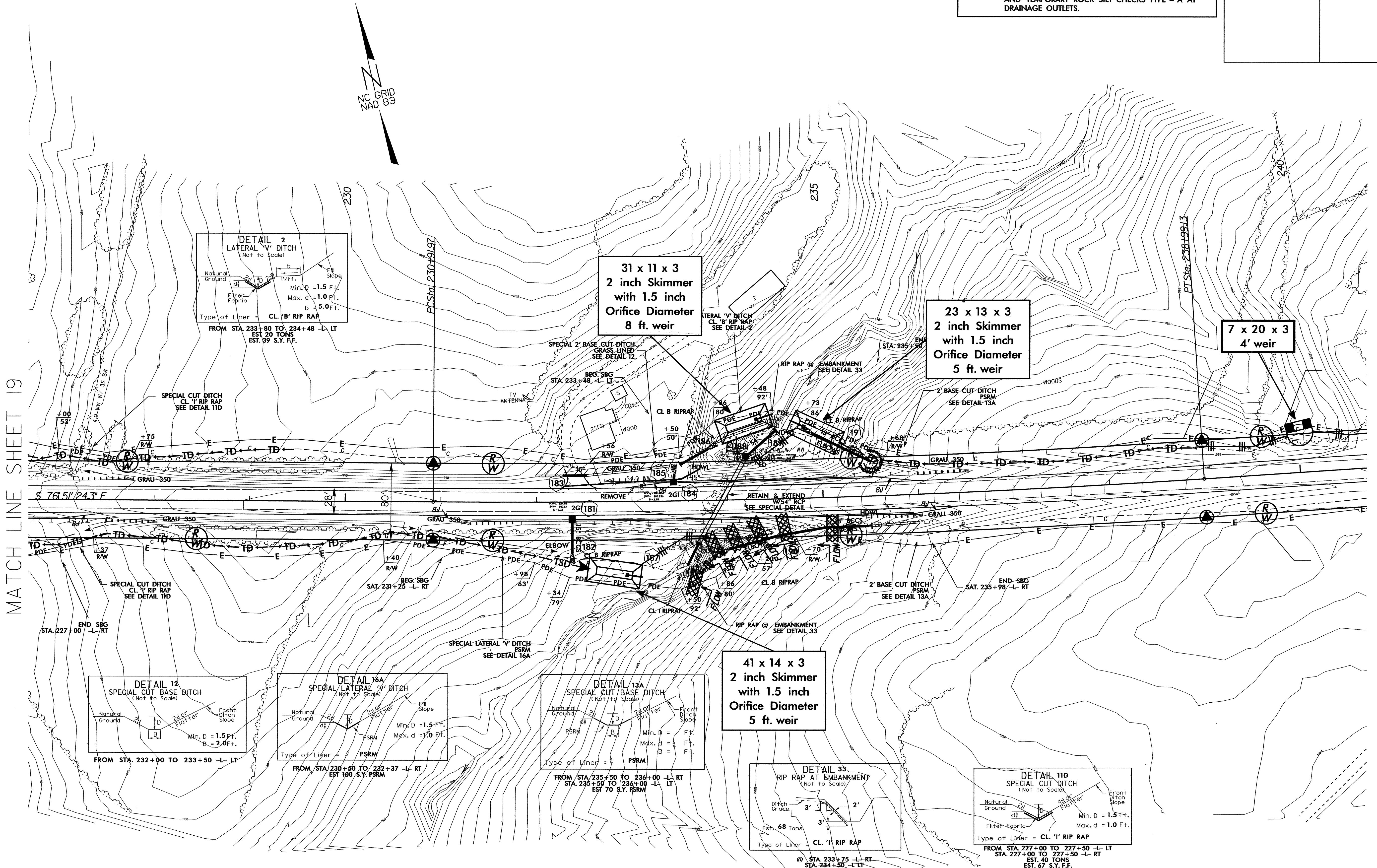
PROJECT REFERENCE NO. R-3415	SHEET NO. EC-24/CONST.20
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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



MATCH LINE SHEET 19

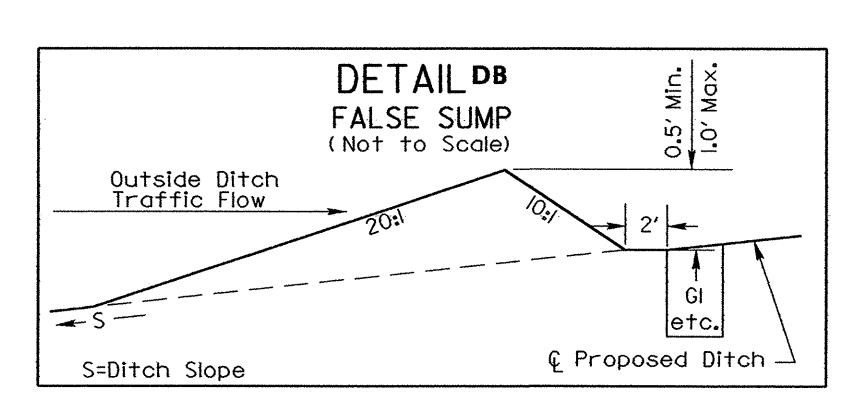
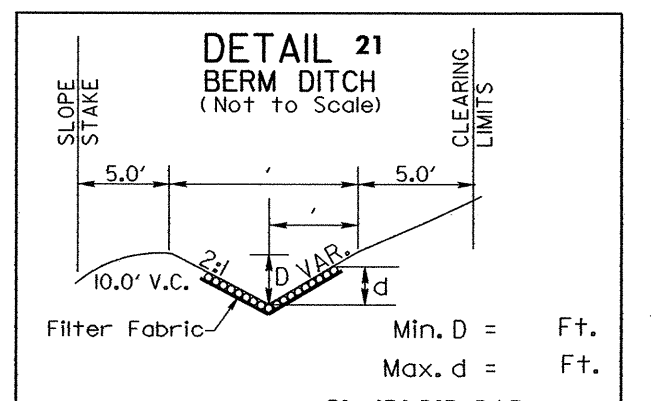
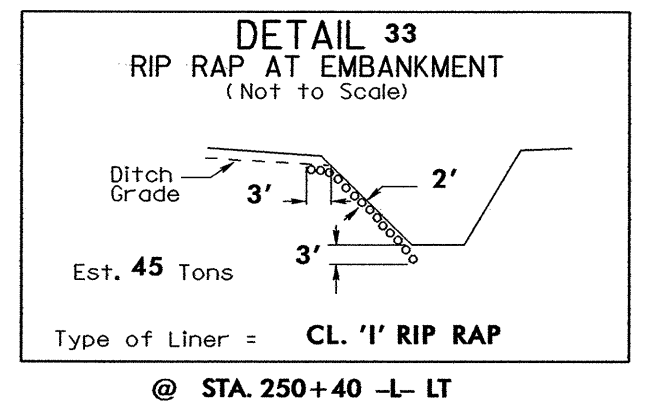
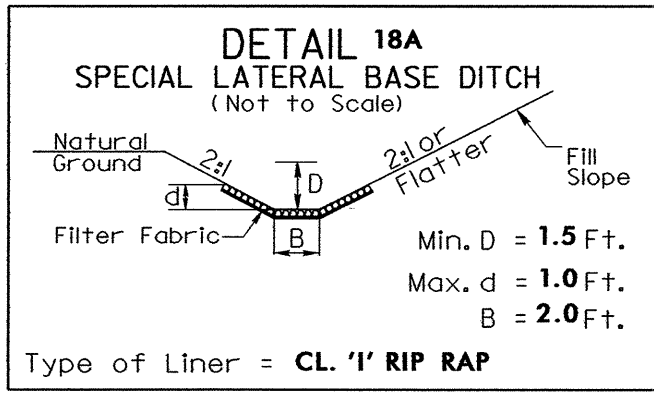
MATCH LINE SHEET 21



PROJECT REFERENCE NO. R-3415	SHEET NO. EC-25/CONST.21
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	ENGINEER

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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 21



FROM STA. 245+00 TO 246+00 -L- LT
EST. 38 TONS
EST. 70 S.Y. F.F.

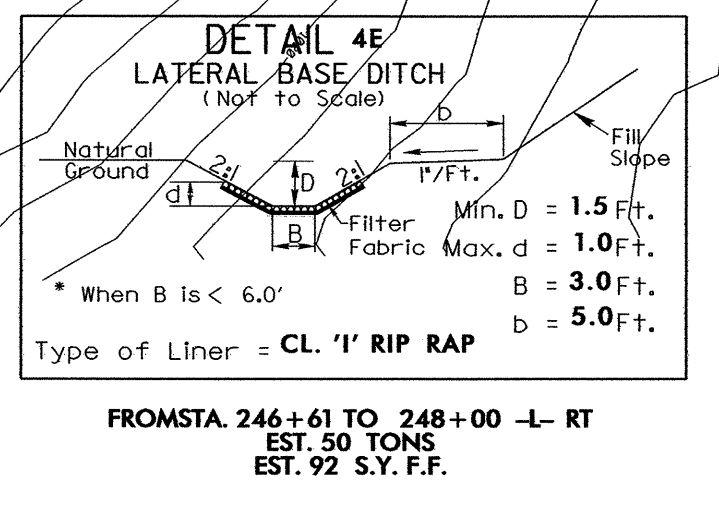
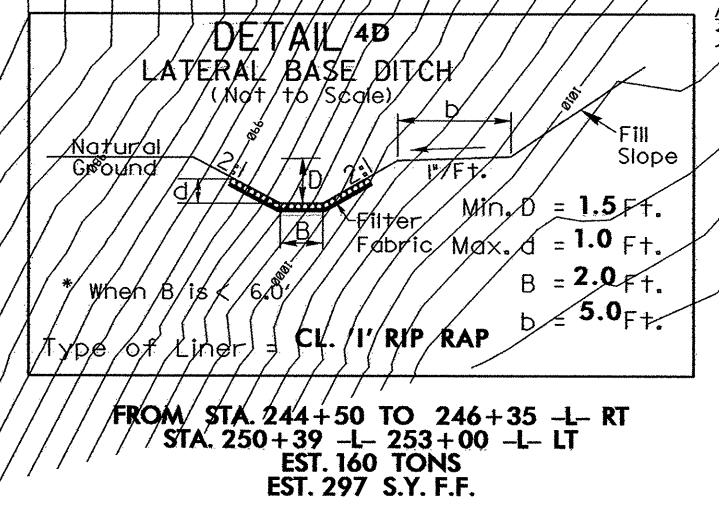
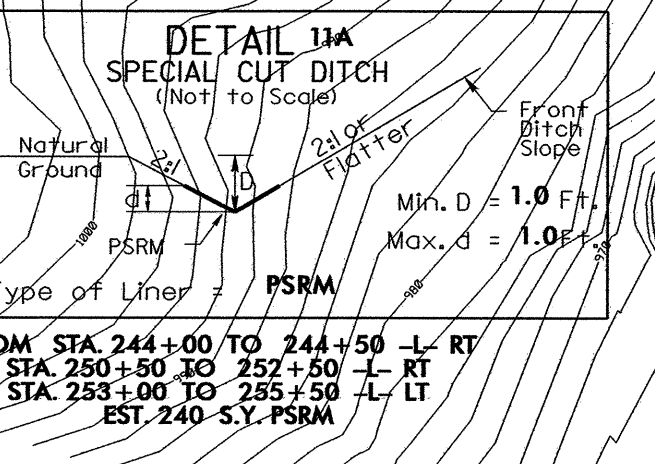
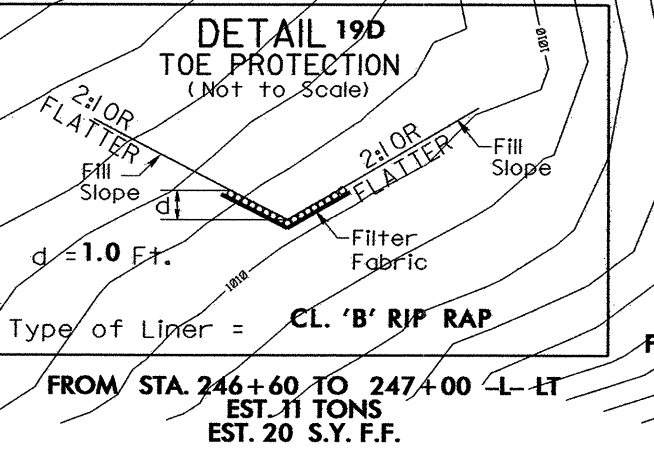
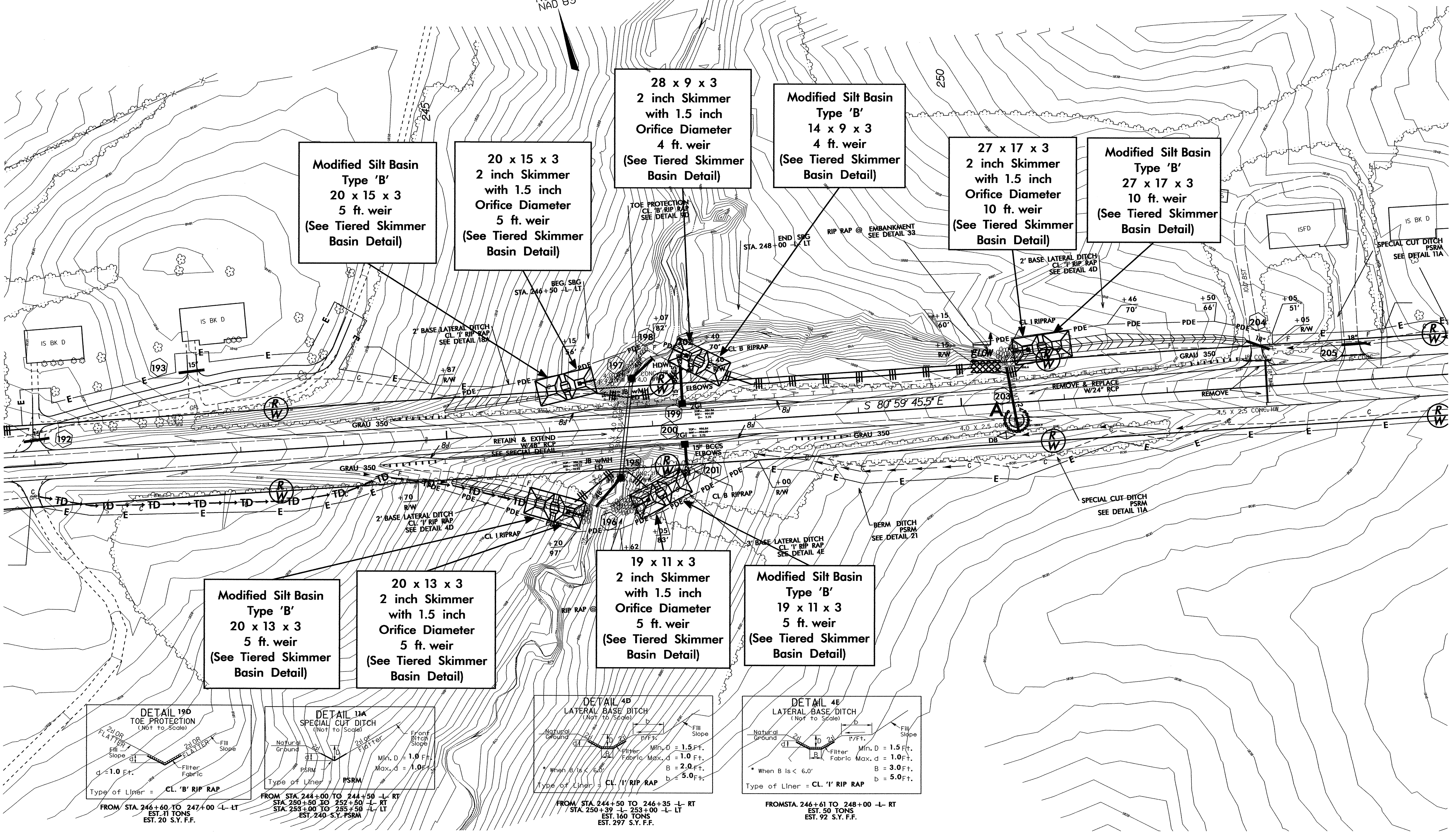
@ STA. 250+40 -L- LT
STA. 246+55 -L- RT
STA. 246+30 -L- RT

FROM STA. 248+00 TO 250+00 -L- LT

@ STA. 248+00 LT

MATCH LINE SHEET 20

MATCH LINE SHEET 22



FROM STA. 246+60 TO 247+00 -L- LT
EST. 11 TONS
EST. 20 S.Y. F.F.

FROM STA. 244+00 TO 244+50 -L- RT
STA. 250+50 TO 252+50 -L- RT
STA. 253+00 TO 255+50 -L- LT
EST. 240 S.Y. PSRM

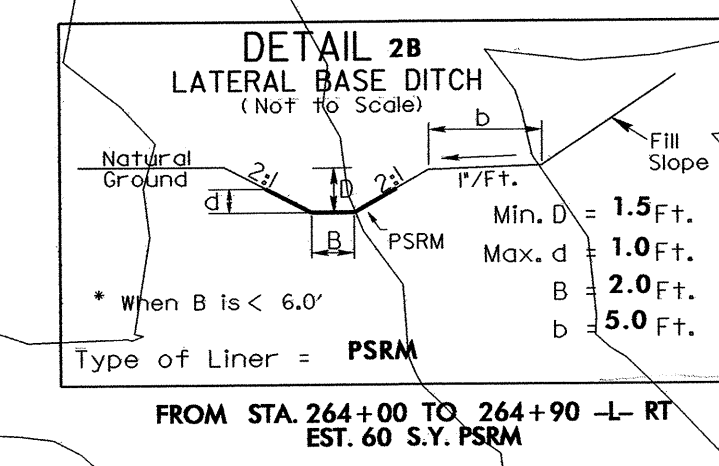
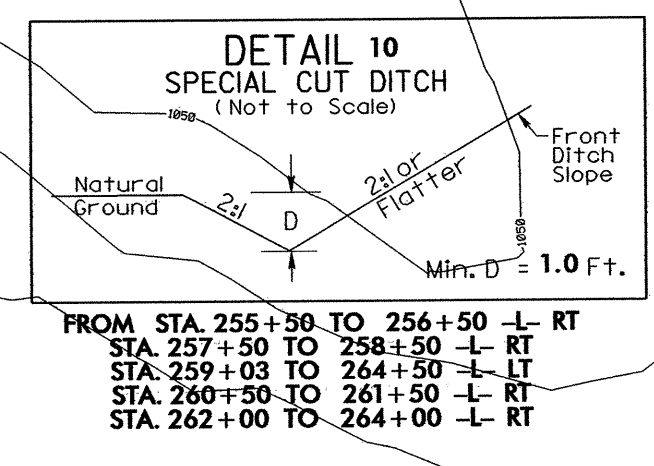
FROM STA. 244+50 TO 246+35 -L- RT
STA. 250+35 -L- 253+00 -L- LT
EST. 160 TONS
EST. 297 S.Y. F.F.

FROM STA. 246+61 TO 248+00 -L- RT
EST. 50 TONS
EST. 92 S.Y. F.F.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 22

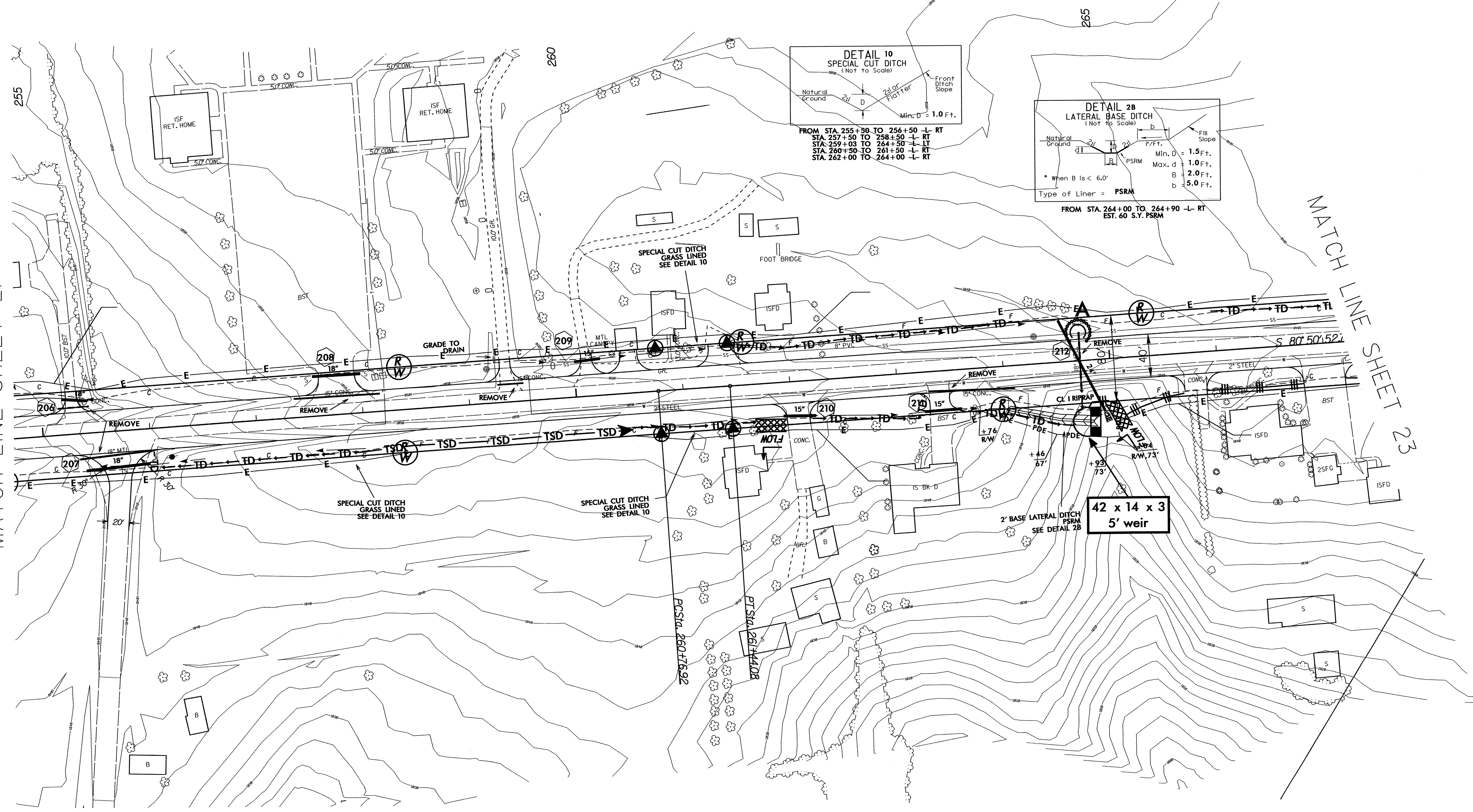
PROJECT REFERENCE NO. R-3415	SHEET NO. EC-26/CONST.22
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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



MATCH LINE SHEET 21

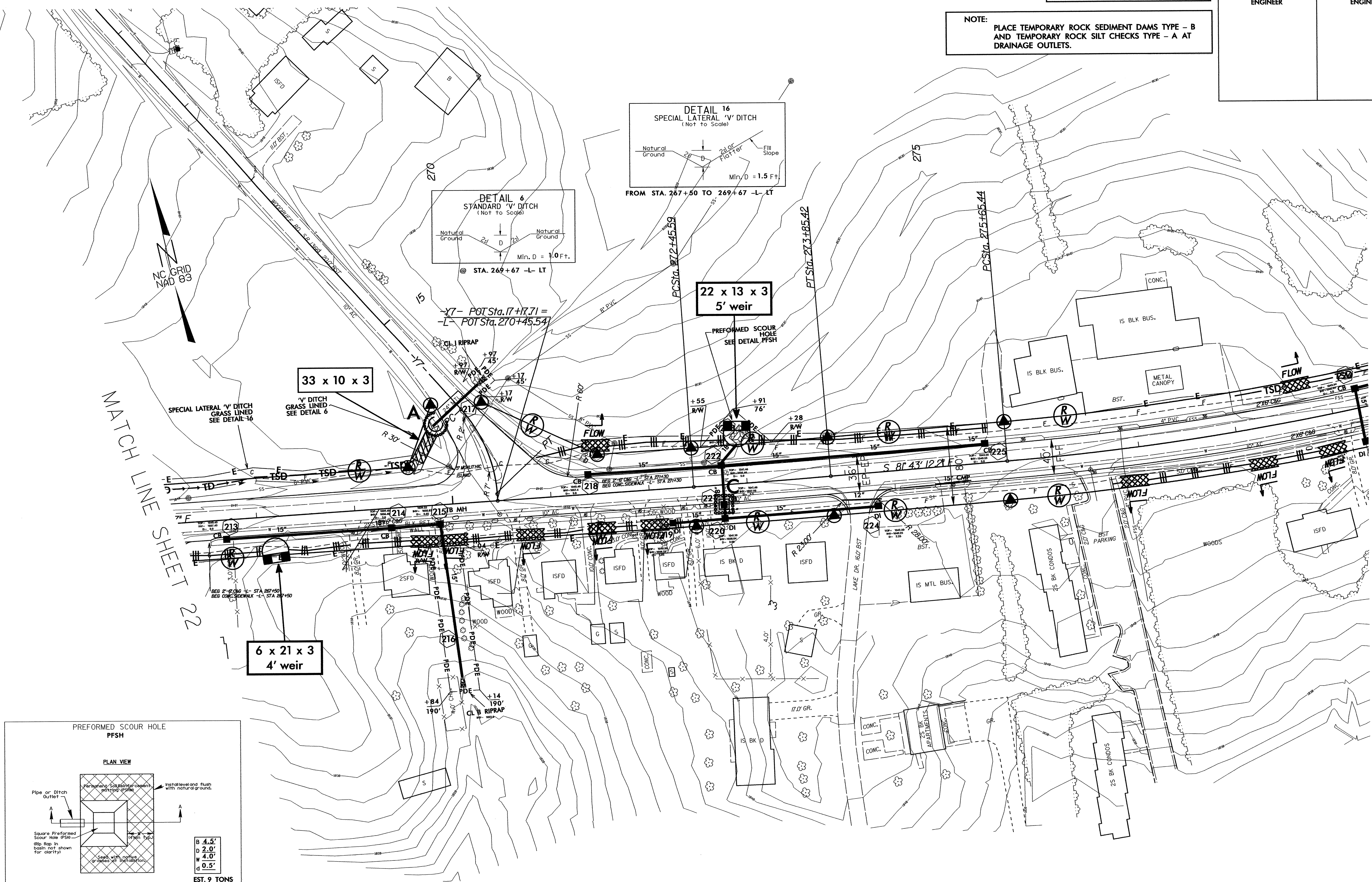
MATCH LINE SHEET 23



**CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 23**

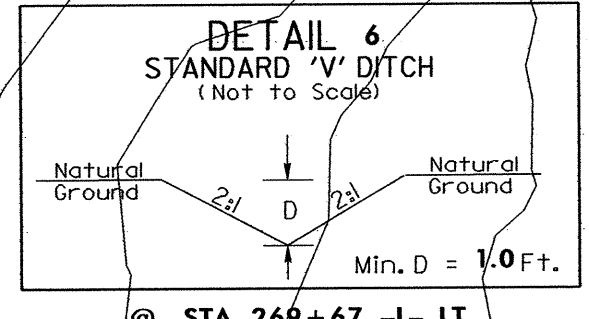
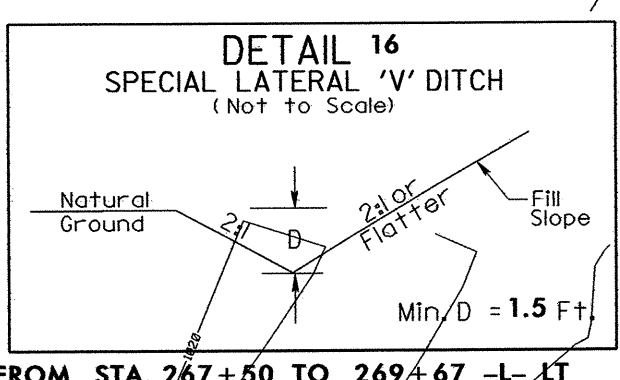
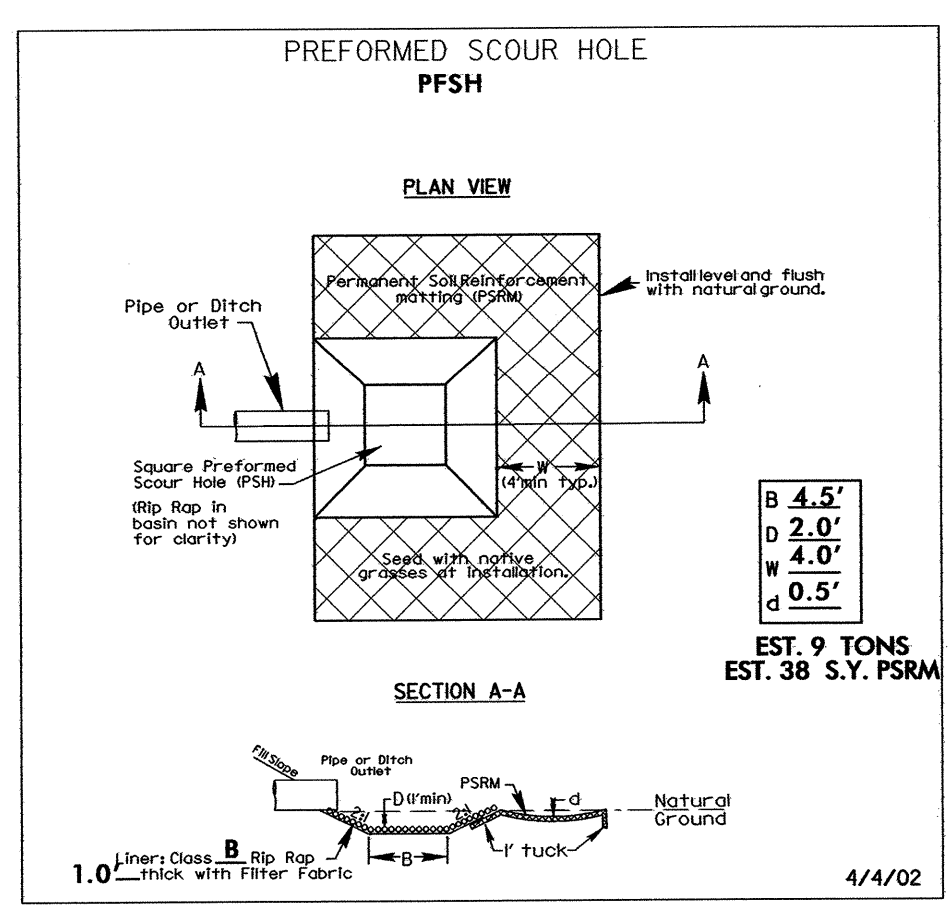
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

PROJECT REFERENCE NO. R-3415	SHEET NO. EC-27/CONST.23
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



MATCH LINE SHEET 22

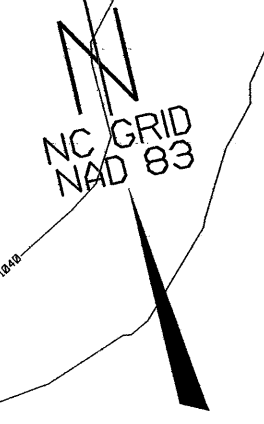
MATCH LINE SHEET 24



**6 x 21 x 3
4' weir**

**22 x 13 x 3
5' weir**

**33 x 10 x 3
4' weir**



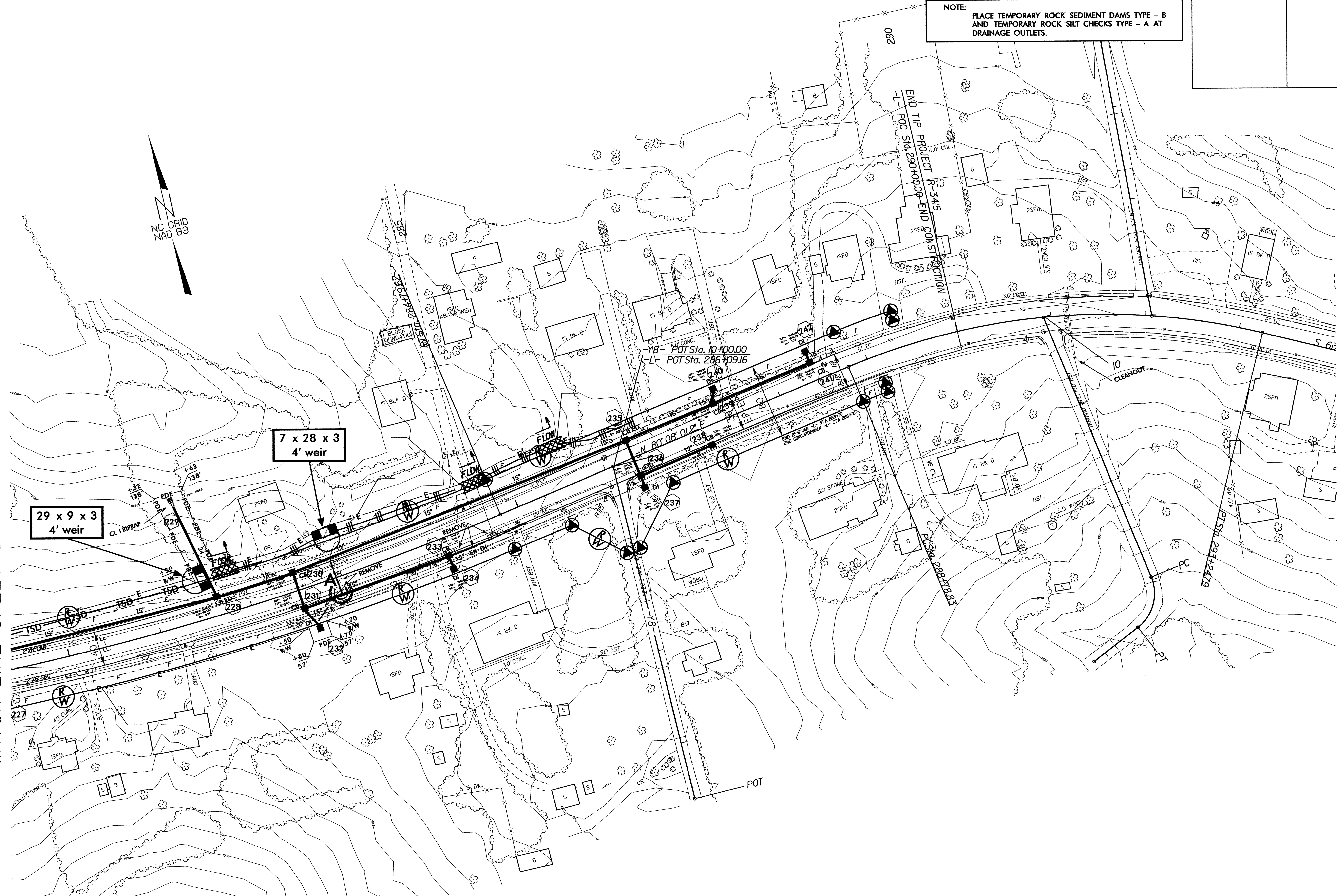
4/4/02

PROJECT REFERENCE NO. R-3415		SHEET NO. EC-28/CONST.24	
RW SHEET NO. ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

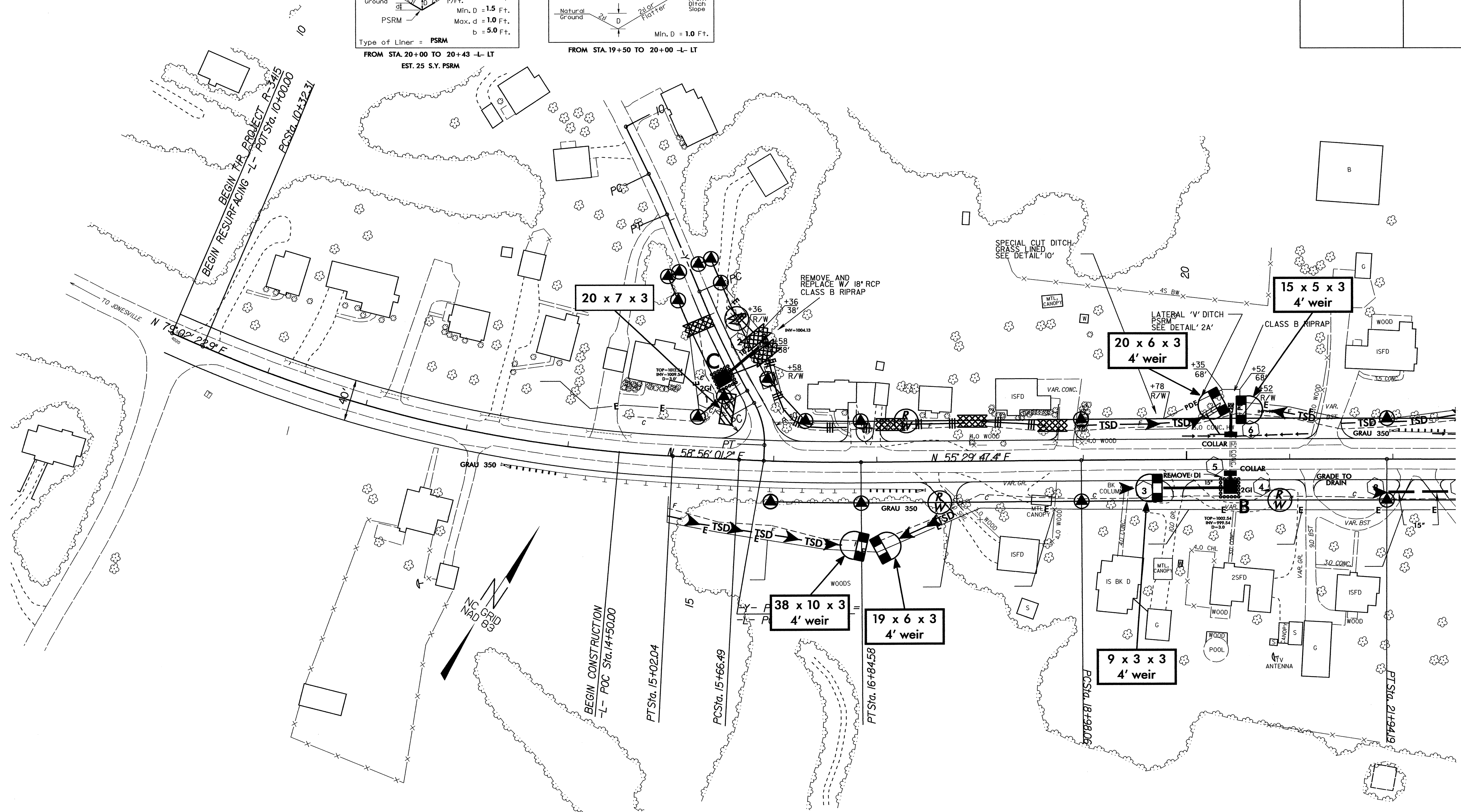
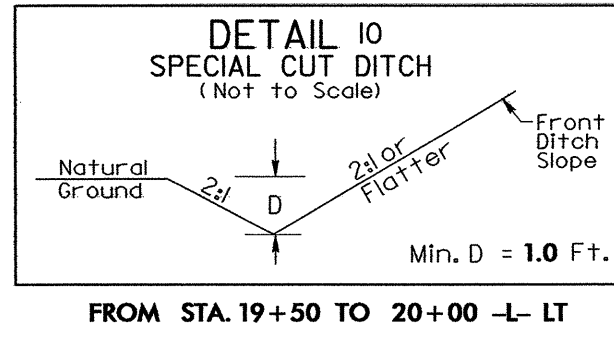
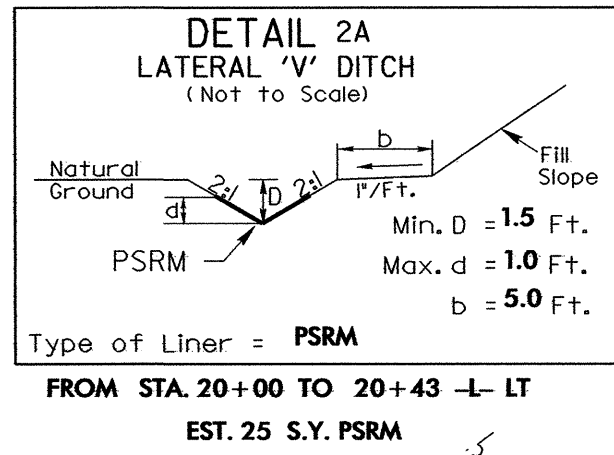
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.



MATCH LINE SHEET 23

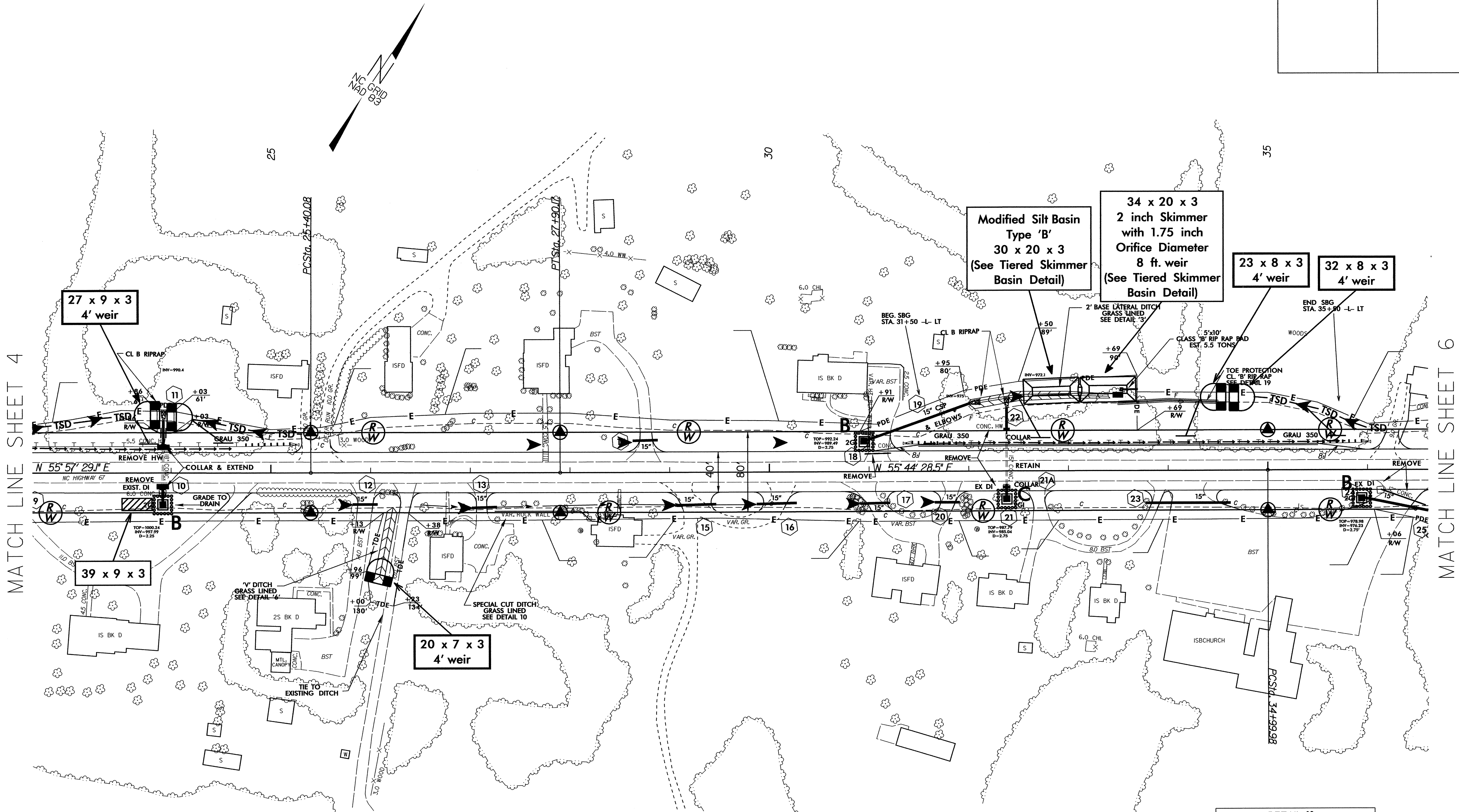


PROJECT REFERENCE NO.	SHEET NO.
R-3415	EC-29/CONST.04
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



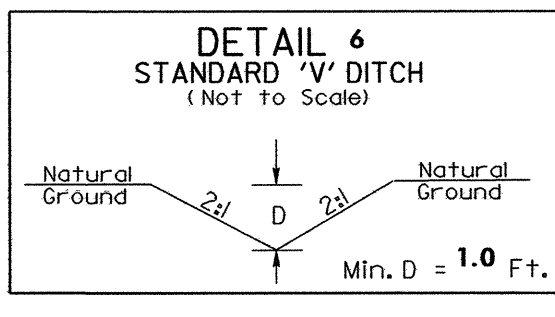
MATCH LINE SHEET 5

PROJECT REFERENCE NO.	SHEET NO.
R-3415	EC-30/CONST.05
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

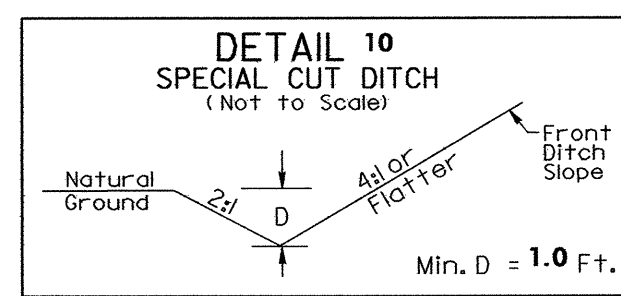


MATCH LINE SHEET 4

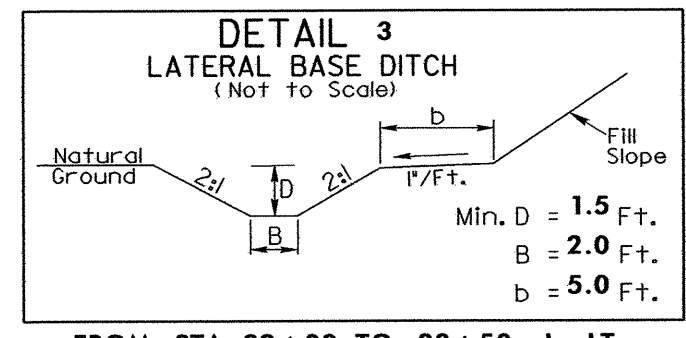
MATCH LINE SHEET 6



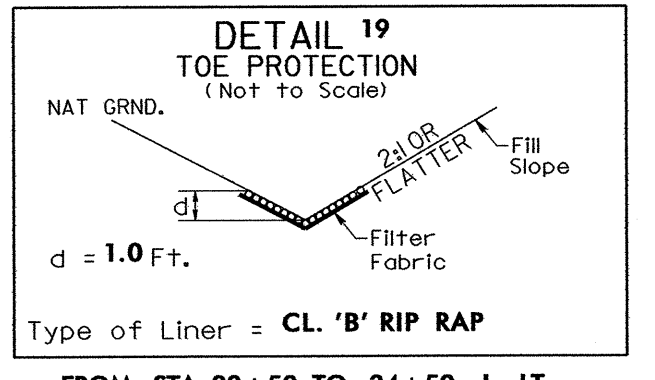
DETAIL 6
STANDARD 'V' DITCH
(Not to Scale)
@ STA. 26+21 -L- RT
EST. DDE= 17 C.Y.



DETAIL 10
SPECIAL CUT DITCH
(Not to Scale)
FROM STA. 26+00 TO 29+50 -L- RT

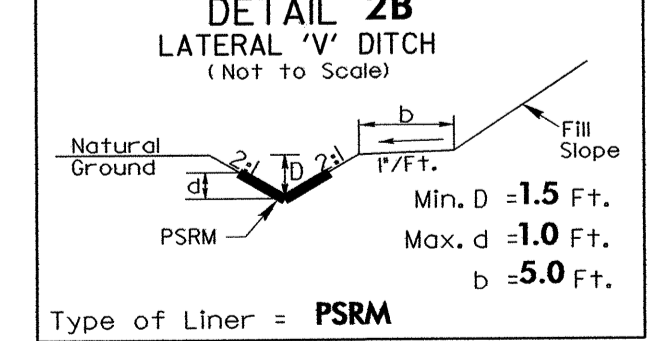
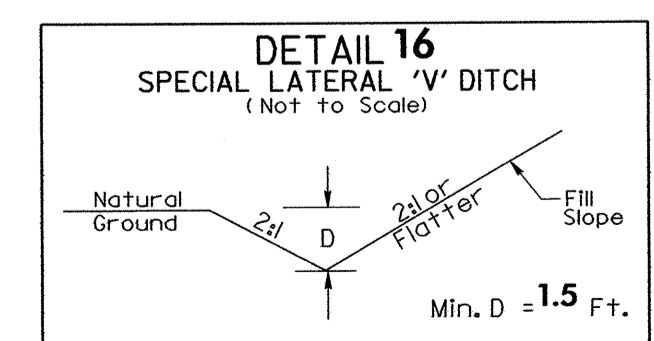
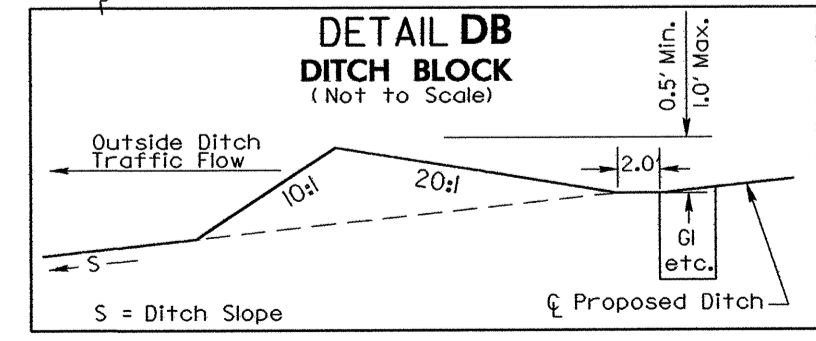
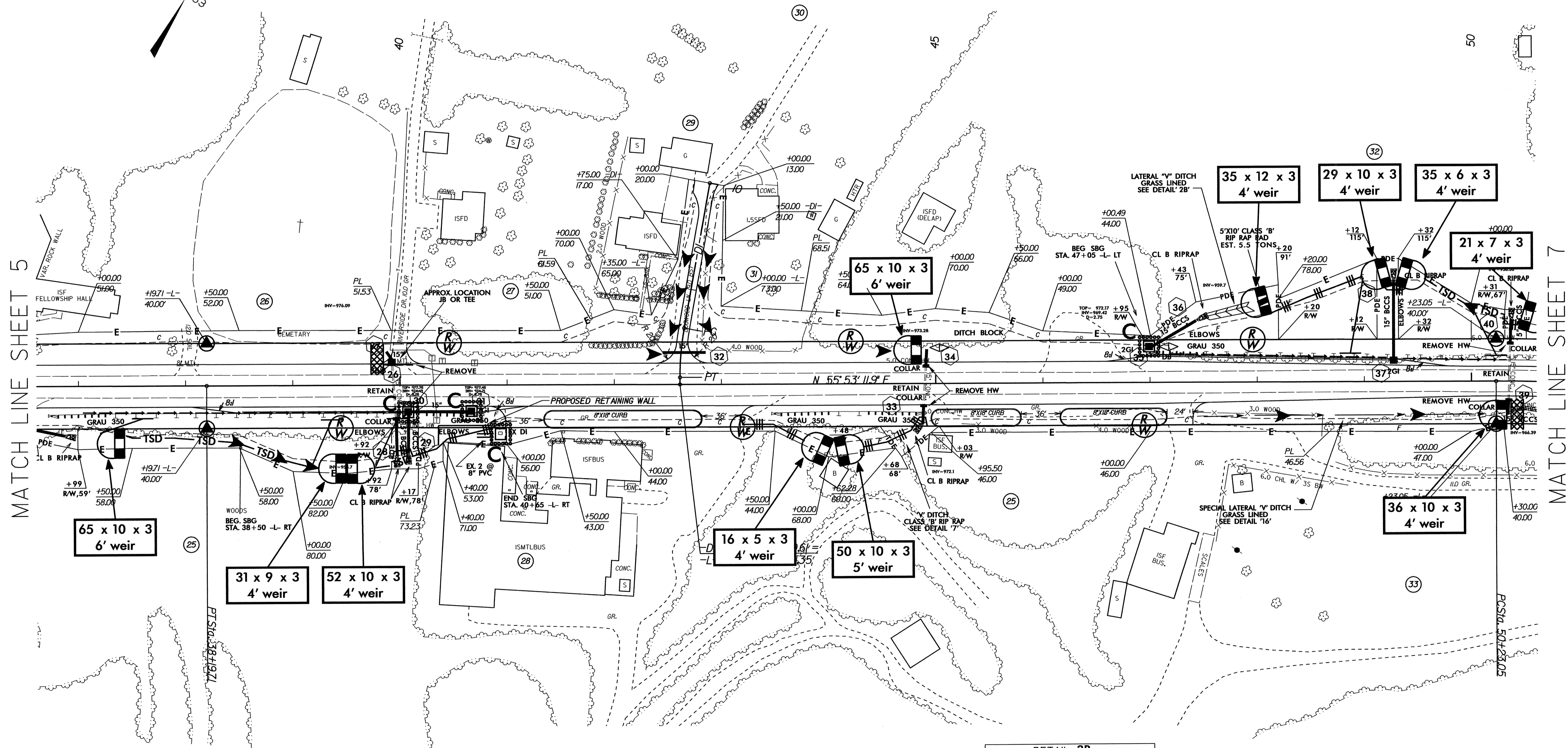
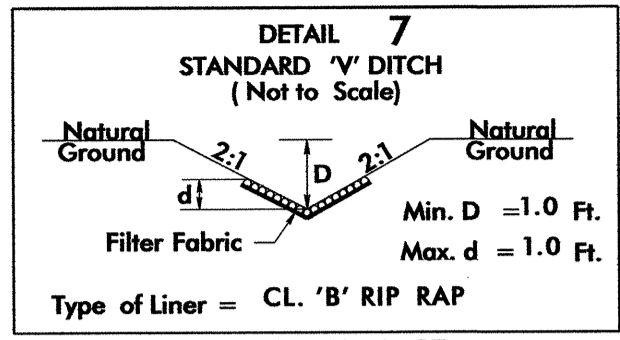


DETAIL 3
LATERAL BASE DITCH
(Not to Scale)
FROM STA. 32+00 TO 33+50 -L- LT



DETAIL 19
TOE PROTECTION
(Not to Scale)
FROM STA. 33+50 TO 34+50 -L- LT
EST. 17 TONS
Type of Liner = CL 'B' RIP RAP

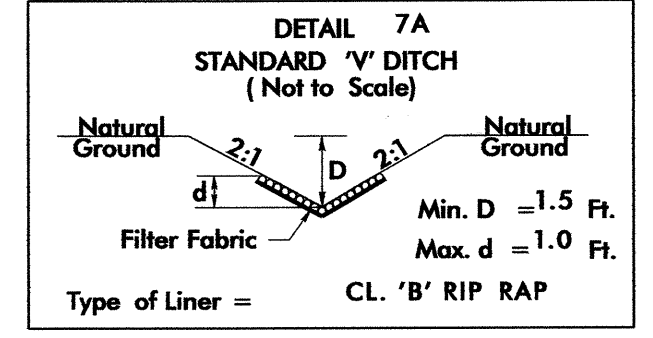
PROJECT REFERENCE NO.	SHEET NO.
R-3415	EC-31/CONST.06
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



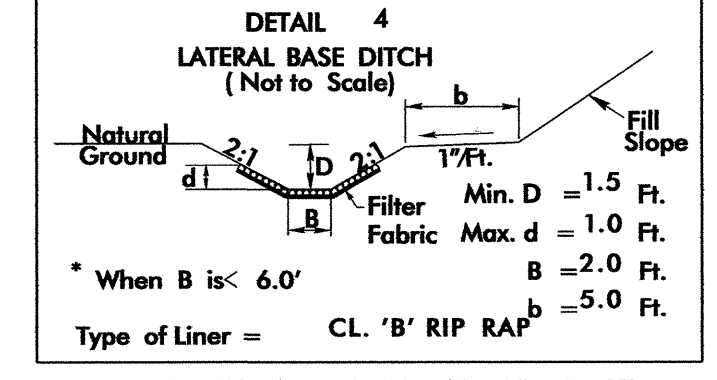
MATCH LINE SHEET 5

MATCH LINE SHEET 7

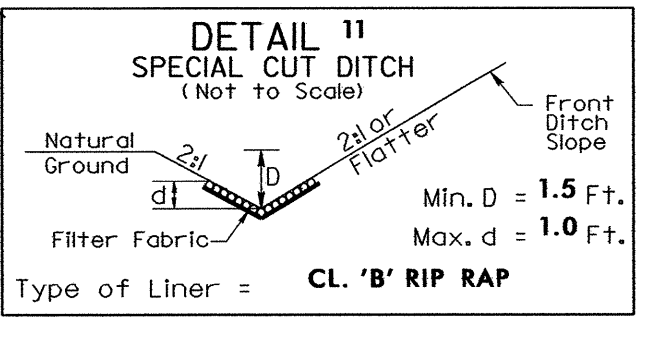
PROJECT REFERENCE NO.	SHEET NO.
R-3415	EC-32/CONST.07
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



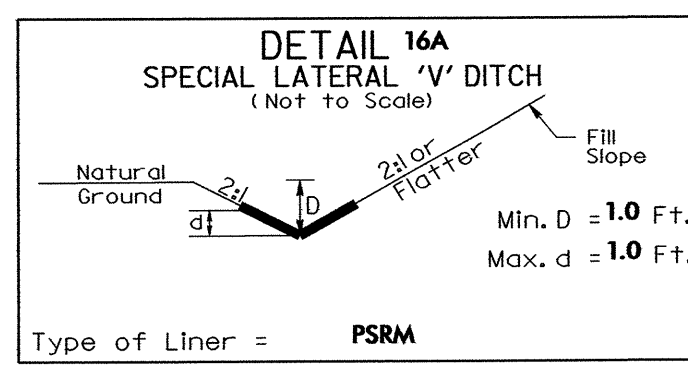
@ STA. 61+80 -L- RT
 EST. 13 TONS
 DDE= EST. 43 C.Y.
 EST. 27 S.Y.F.F.



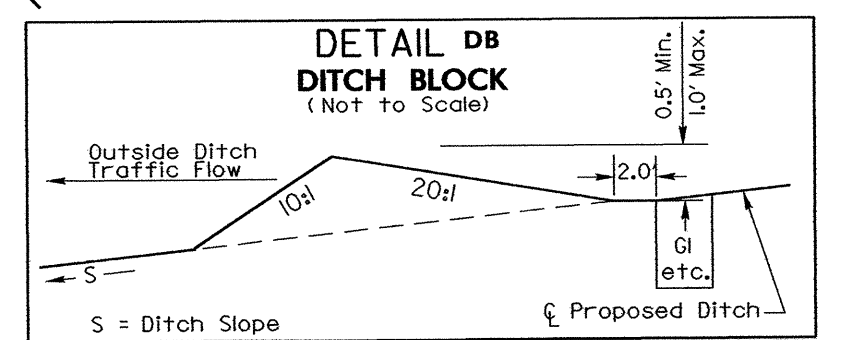
FROM STA. 61+00 TO 61+85 -L- LT
 EST. 30 TONS
 EST. 57 S.Y.F.F.



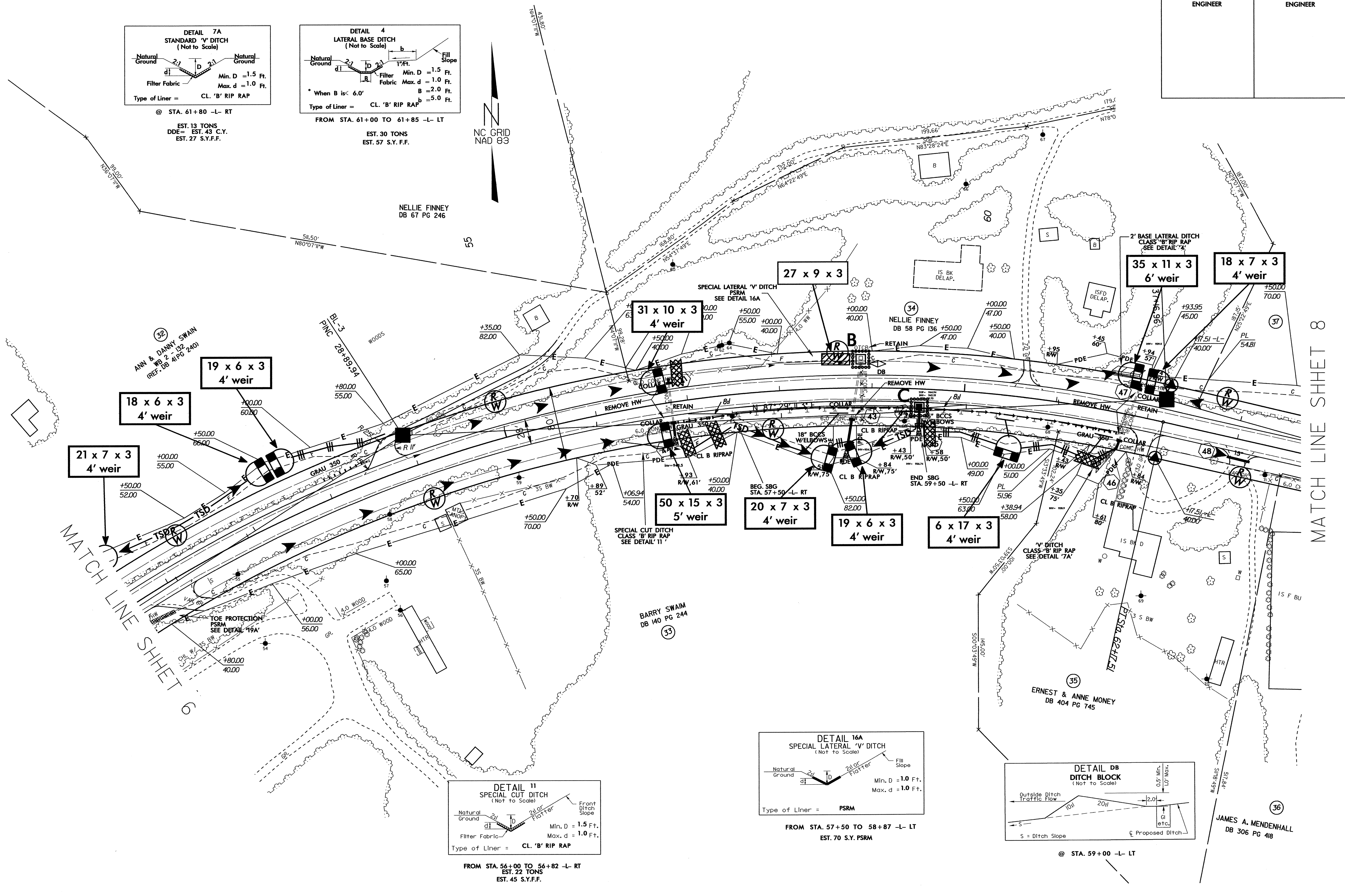
FROM STA. 56+00 TO 56+82 -L- RT
 EST. 22 TONS
 EST. 45 S.Y.F.F.



FROM STA. 57+50 TO 58+87 -L- LT
 EST. 70 S.Y.F.F.

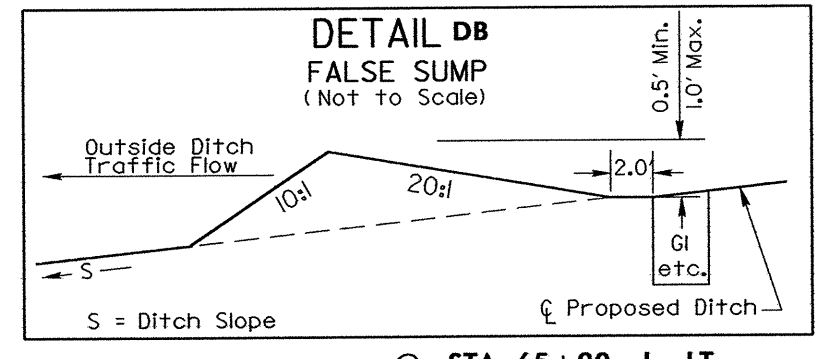


@ STA. 59+00 -L- LT

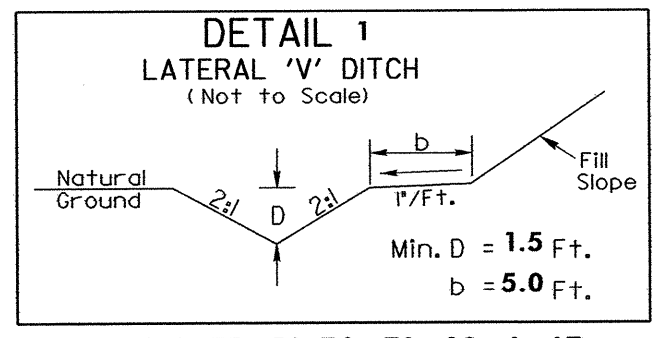


MATCH LINE SHEET 8

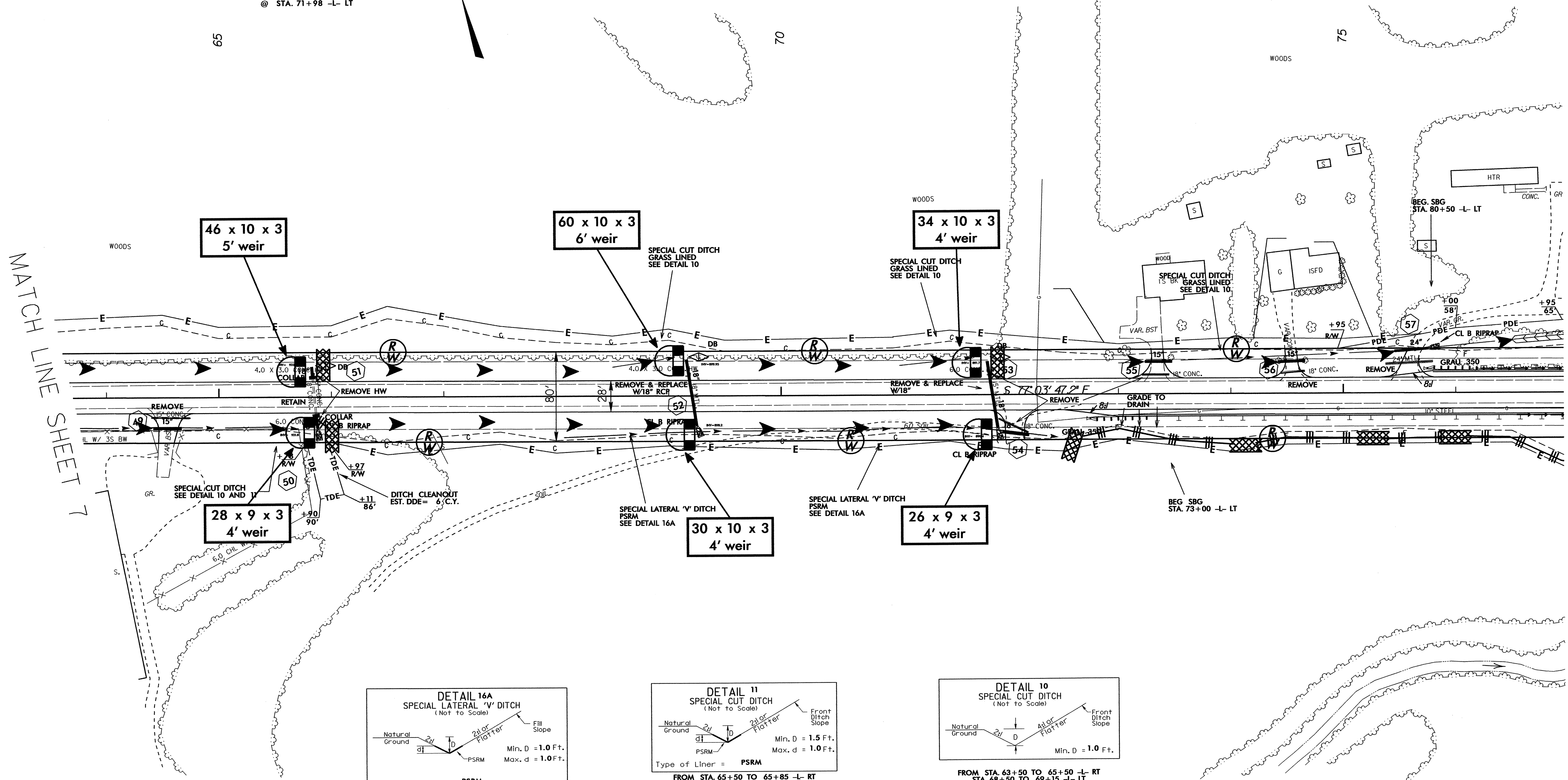
PROJECT REFERENCE NO.	SHEET NO.
R-3415	EC-33/CONST.08
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



@ STA. 65+90 -L- LT
 @ STA. 69+25 -L- LT
 @ STA. 71+98 -L- LT

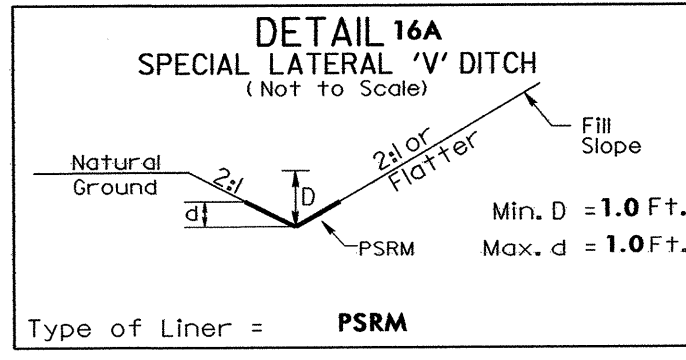


FROM STA. 75+50 TO 79+20 -L- LT

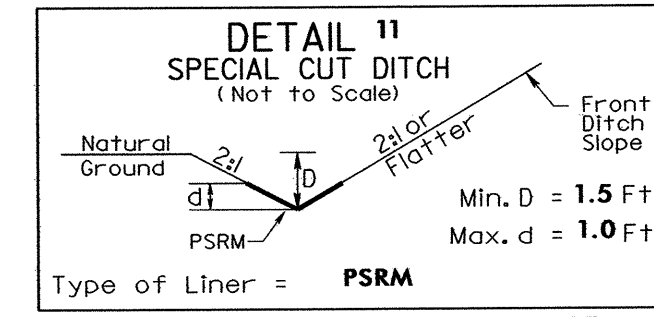


MATCH LINE SHEET 7

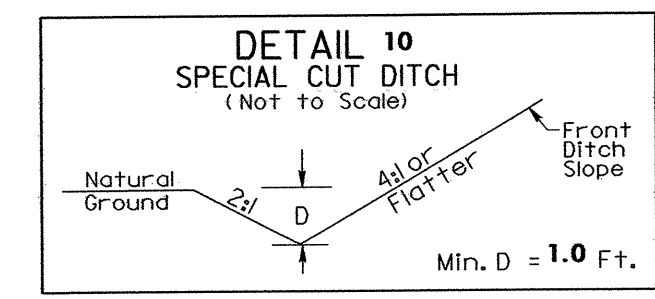
MATCH LINE SHEET 9



Type of Liner = PSRM
 FRO STA. 67+50 TO 72+50 -L- RT
 EST. 250 S.Y. PSRM

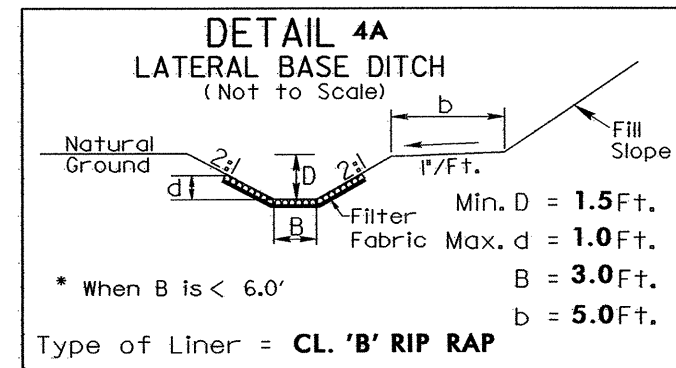


Type of Liner = PSRM
 FROM STA. 65+50 TO 65+85 -L- RT
 EST. 16 S.Y. PSRM

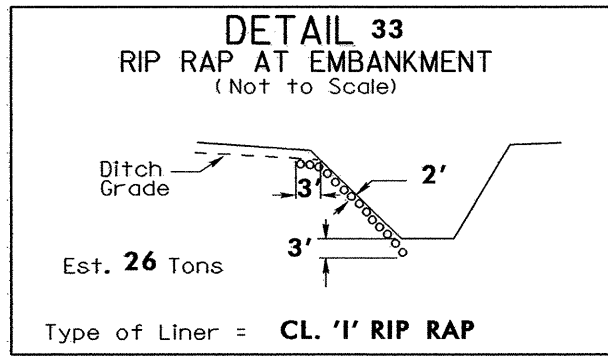


FROM STA. 63+50 TO 65+50 -L- RT
 STA. 68+50 TO 69+15 -L- LT
 STA. 71+00 TO 71+84 -L- LT
 STA. 72+50 TO 75+50 -L- LT

PROJECT REFERENCE NO.	SHEET NO.
R-3415	EC-34/CONST.09
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



FROM STA. 83+00 TO 84+00 -L- LT
EST 40 TONS
EST 82 S.Y. F.F.



MATCH LINE SHEET 8

MATCH LINE SHEET 10

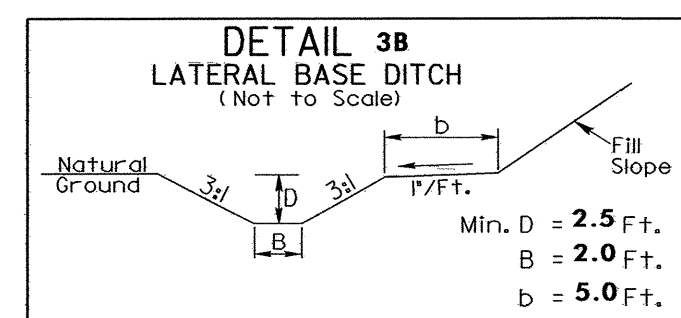
64 x 16 x 3
2 inch Skimmer
with 1.5 inch
Orifice Diameter
8 ft. weir

68 x 23 x 3
2 inch Skimmer
with 1.75 inch
Orifice Diameter
10 ft. weir

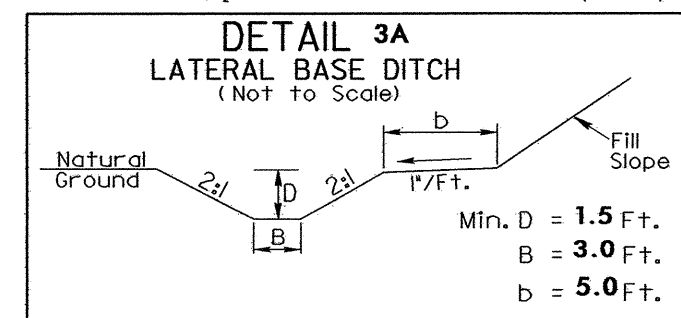
28 x 9 x 3
4' weir

Place Matting for Erosion Control
on Slope as Work Allows.

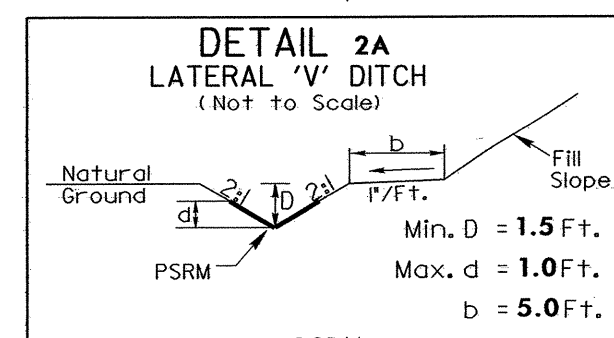
54 x 15 x 3
2 inch Skimmer
with 1.5 inch
Orifice Diameter
5 ft. weir



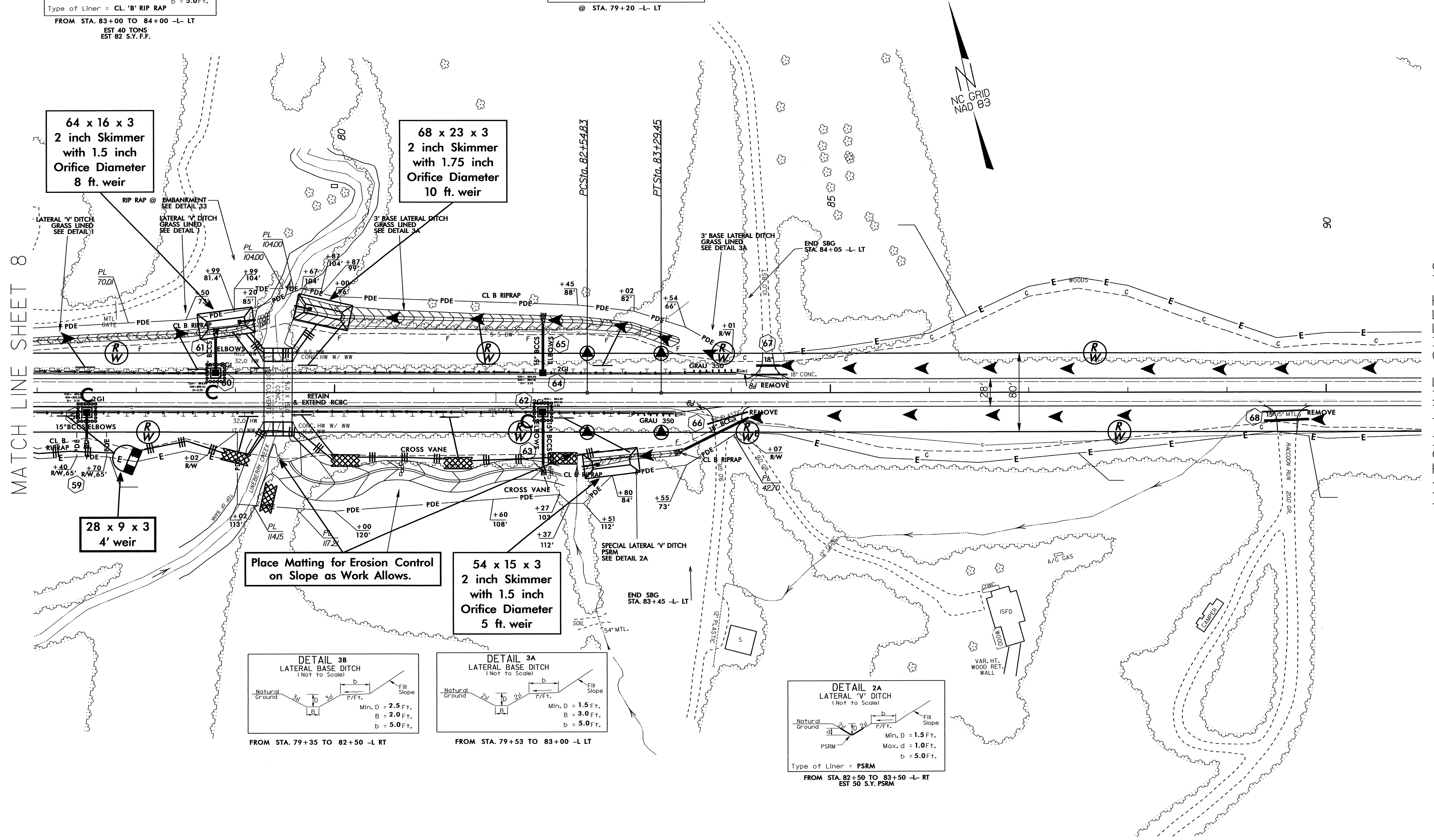
FROM STA. 79+35 TO 82+50 -L- RT



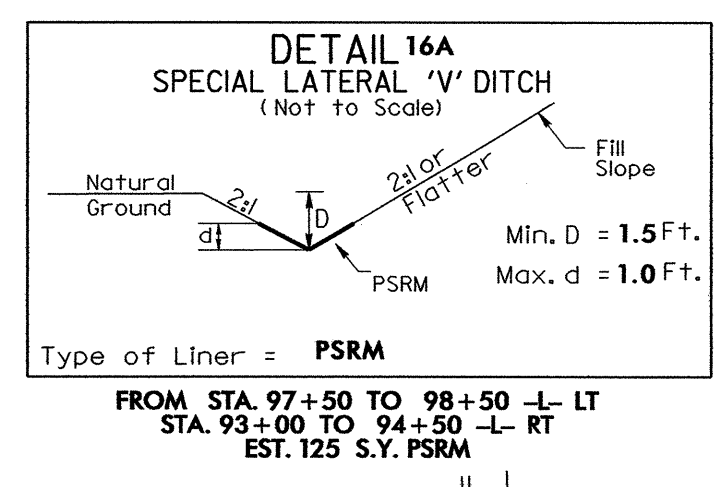
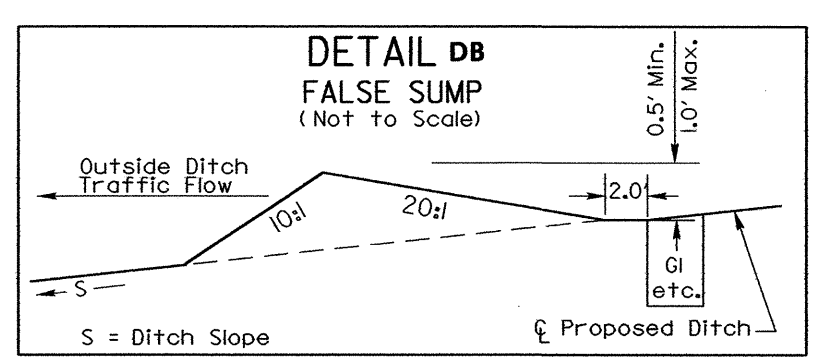
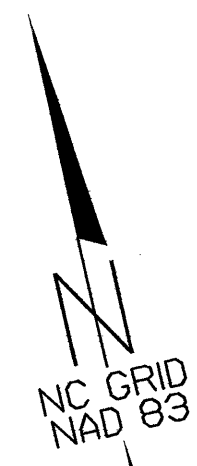
FROM STA. 79+53 TO 83+00 -L- LT



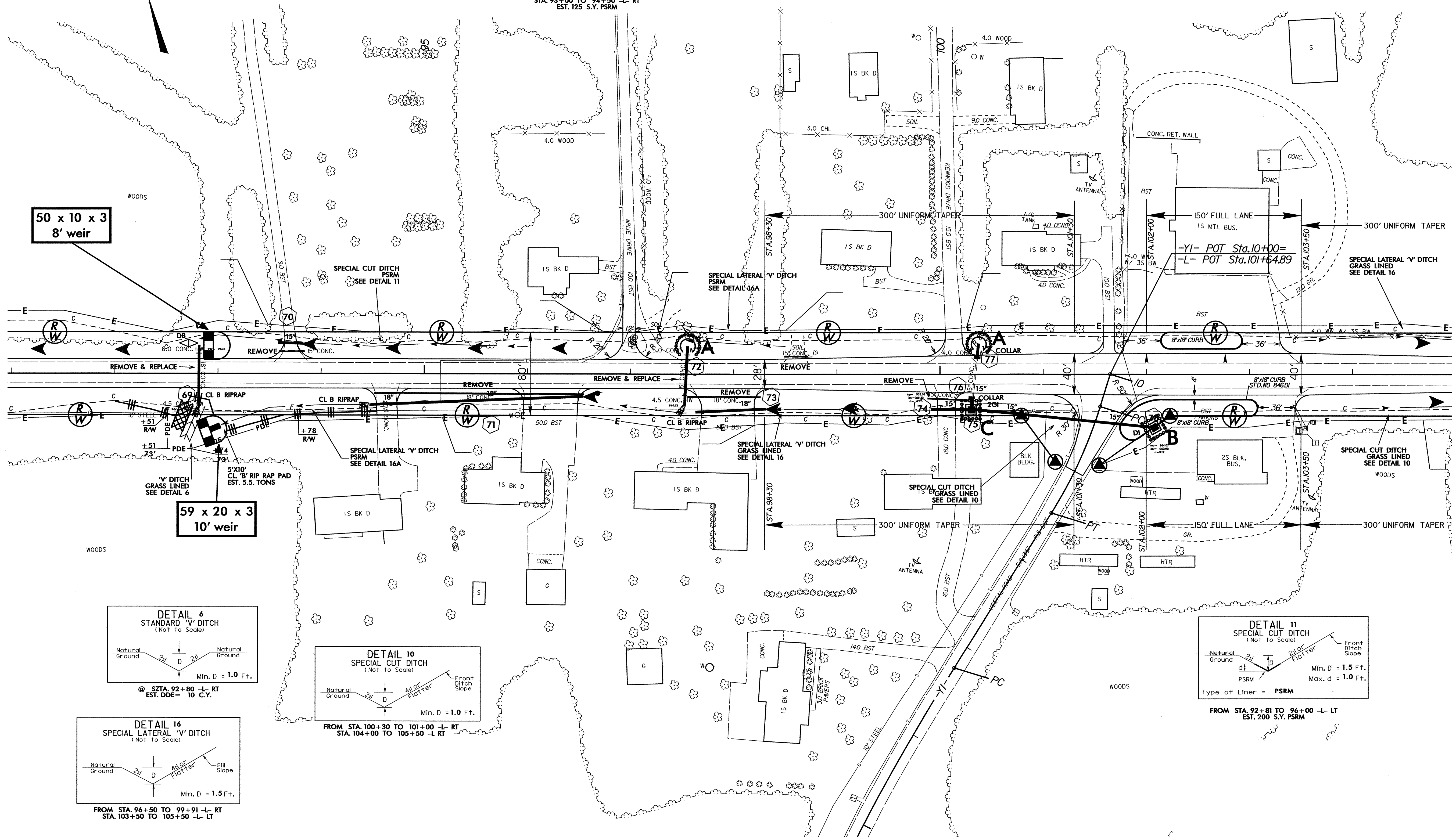
FROM STA. 82+50 TO 83+50 -L- RT
EST 50 S.Y. PSRM



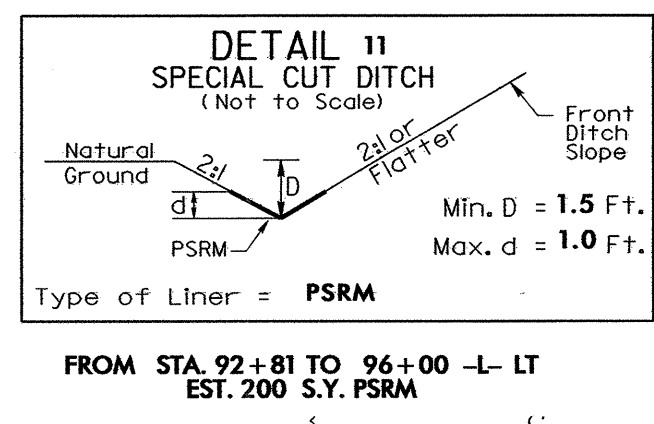
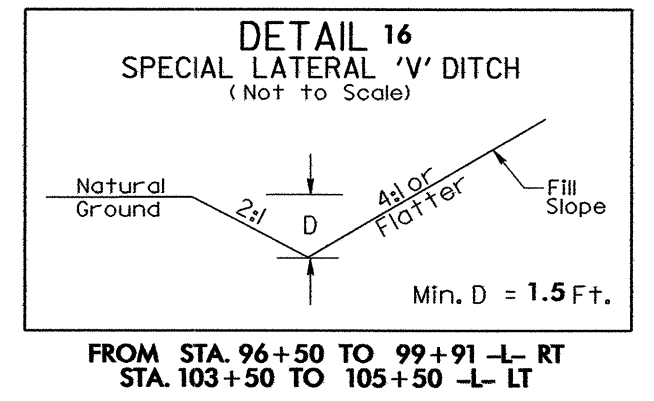
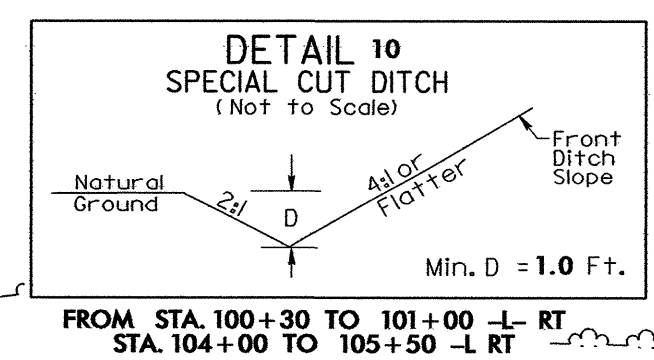
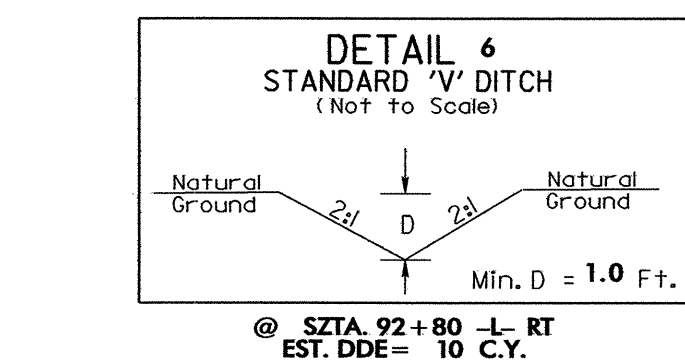
PROJECT REFERENCE NO. R-3415		SHEET NO. EC-35/CONST.10	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	



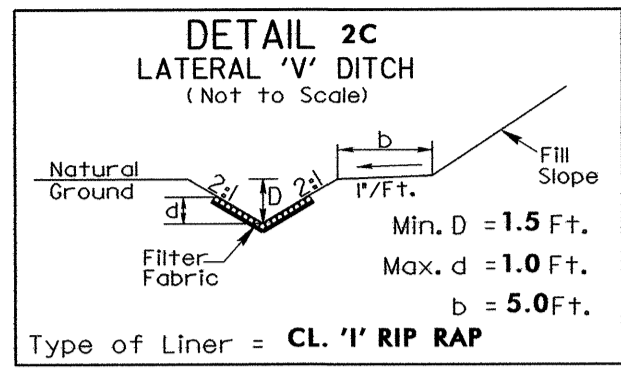
MATCH LINE SHEET 9



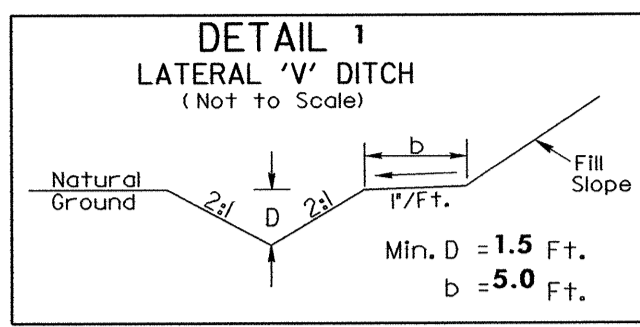
MATCH LINE SHEET 11



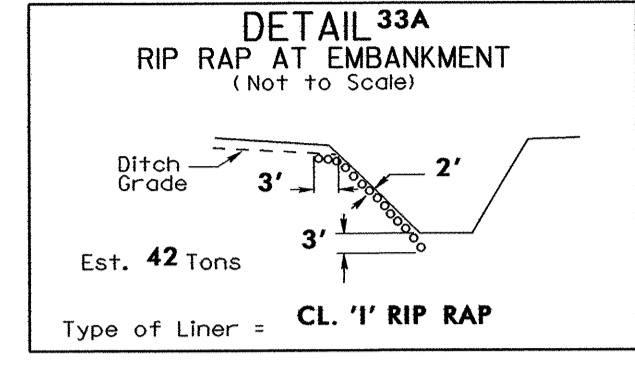
PROJECT REFERENCE NO.	SHEET NO.
R-3415	EC-3&CONST.11
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



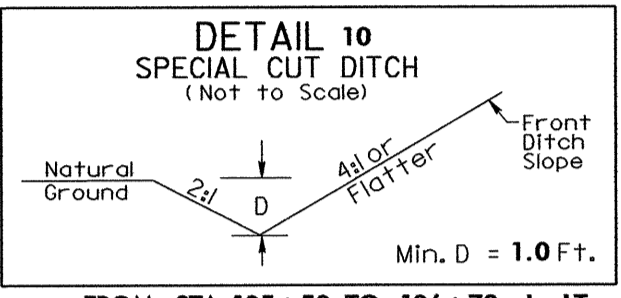
FROM STA. 105+50 TO 106+80 -L- RT
EST. 36 TONS



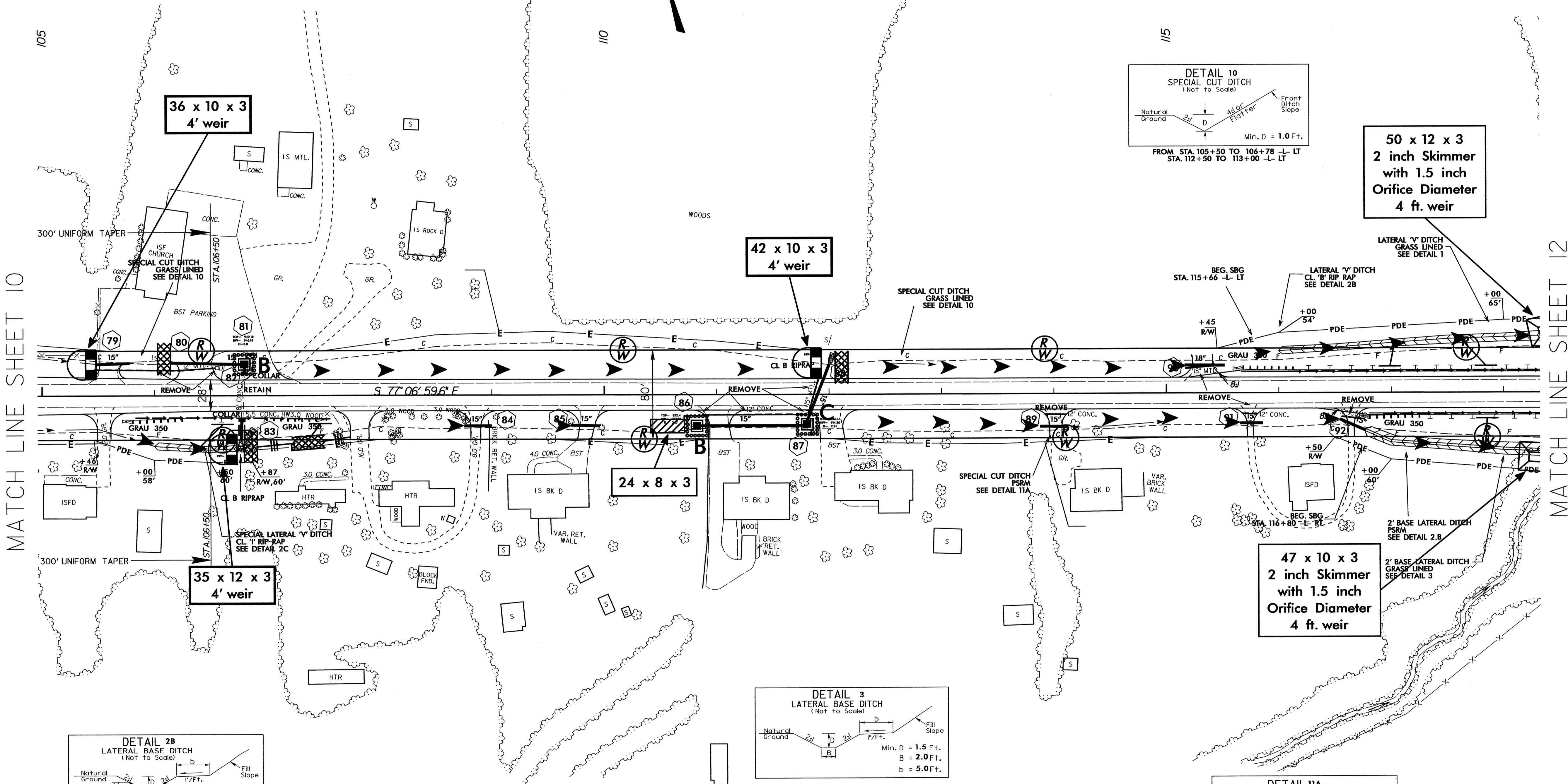
FROM STA. 116+00 TO 118+78 -L- LT



@ STA. 118+78 -L- LT
@ STA. 118+96 -L- RT

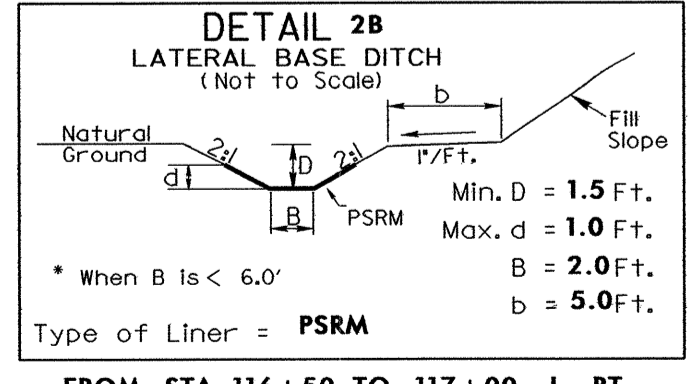


FROM STA. 105+50 TO 106+78 -L- LT
STA. 112+50 TO 113+00 -L- LT

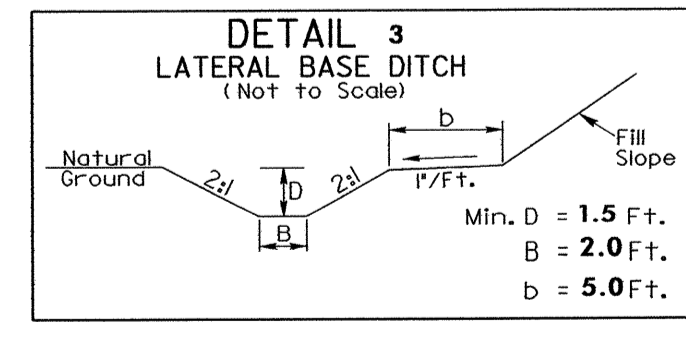


MATCH LINE SHEET 10

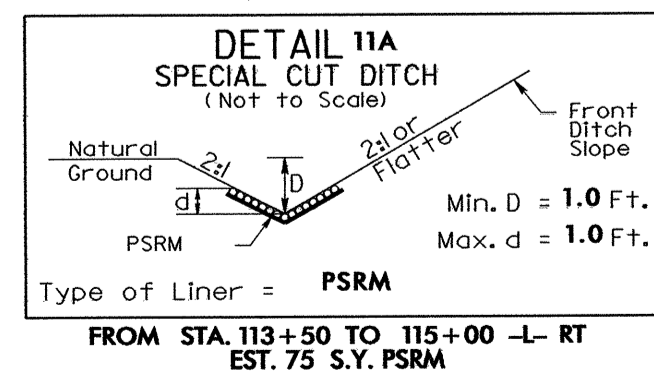
MATCH LINE SHEET 12



FROM STA. 116+50 TO 117+00 -L- RT



FROM STA. 117+00 TO 119+00 -L- RT

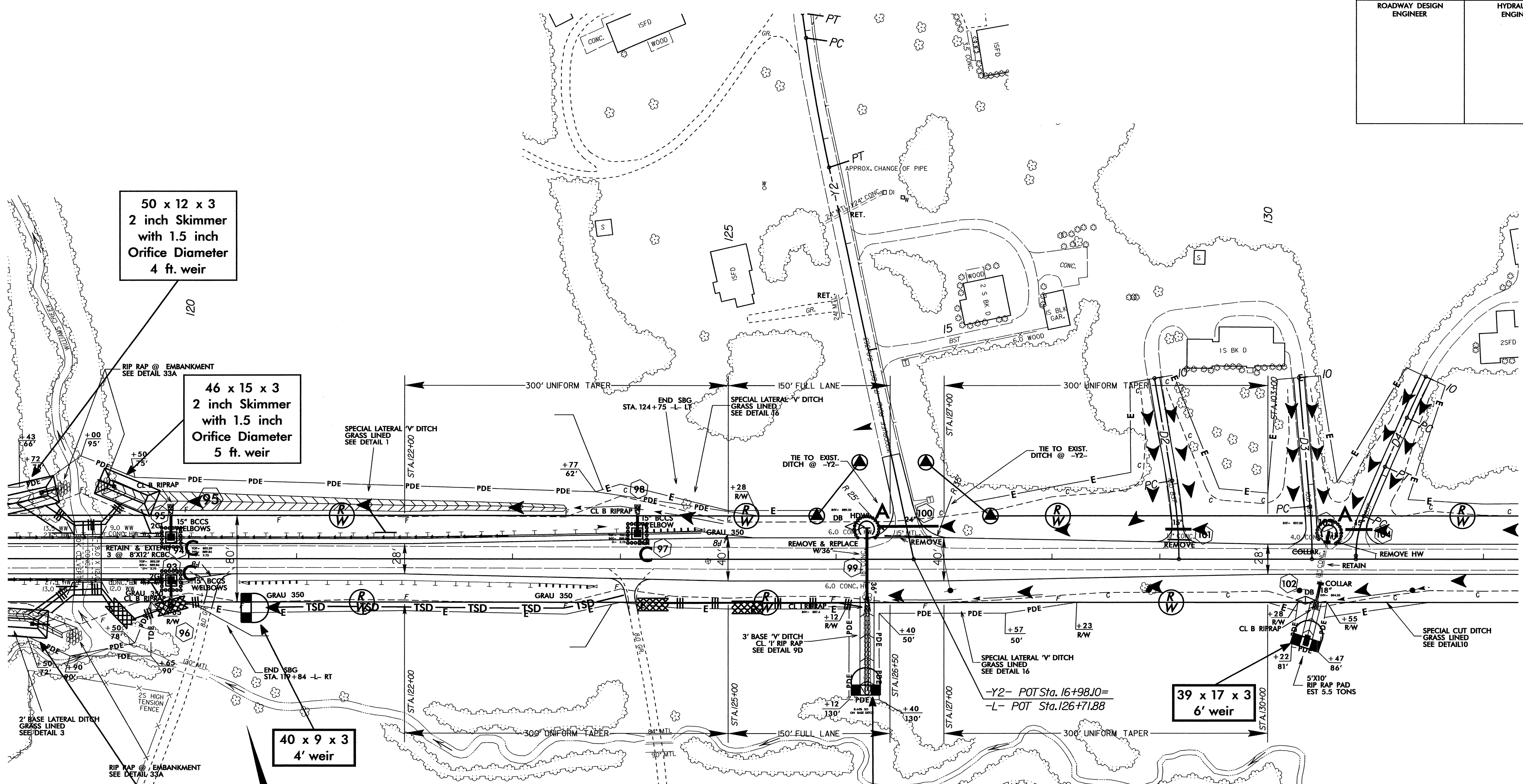


FROM STA. 113+50 TO 115+00 -L- RT
EST. 75 S.Y. PSRM

PROJECT REFERENCE NO. R-3415	SHEET NO. EC-37/CONST.12
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

MATCH LINE SHEET II

MATCH LINE SHEET 13



50 x 12 x 3
2 inch Skimmer
with 1.5 inch
Orifice Diameter
4 ft. weir

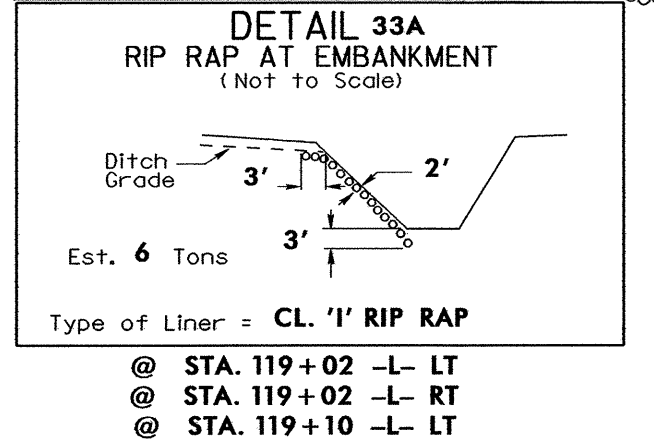
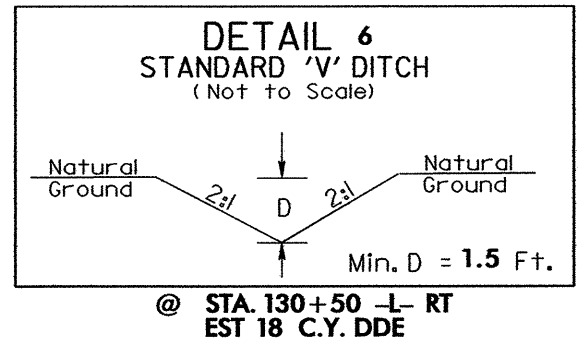
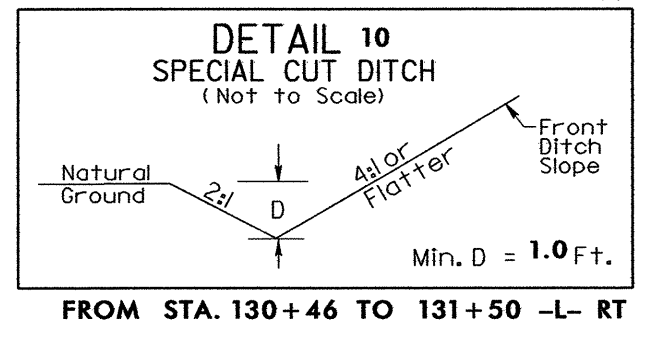
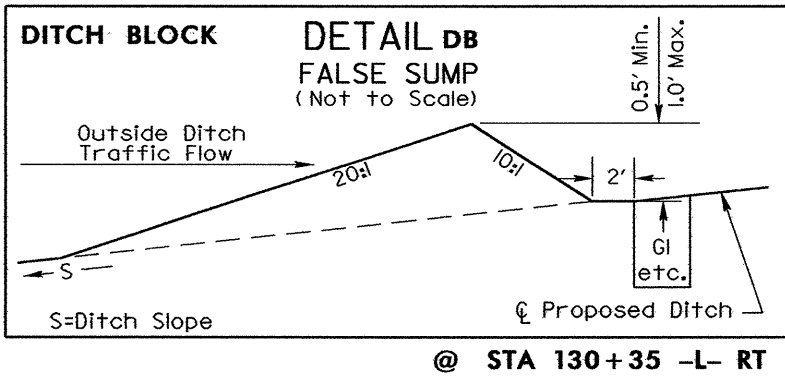
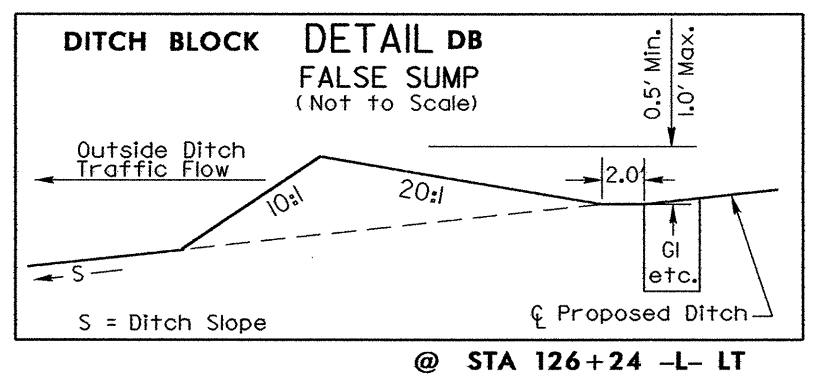
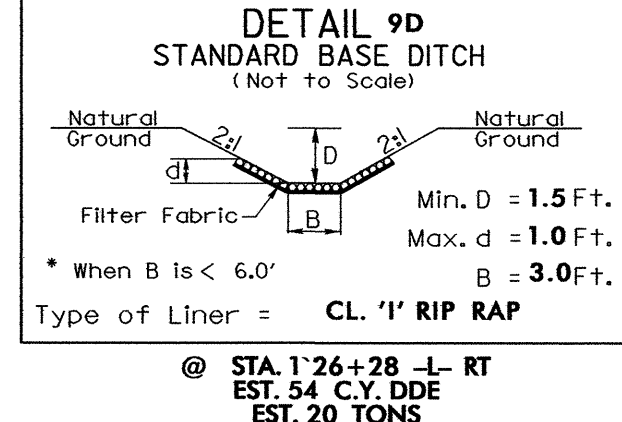
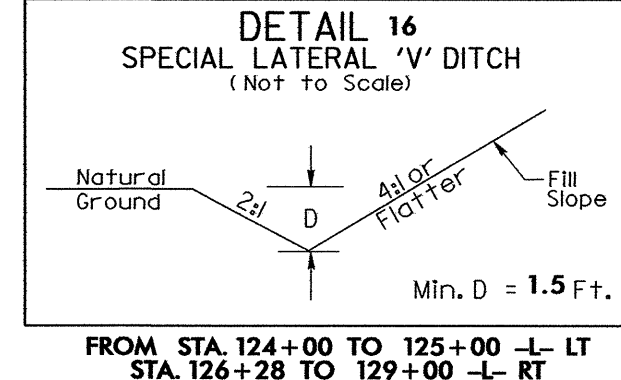
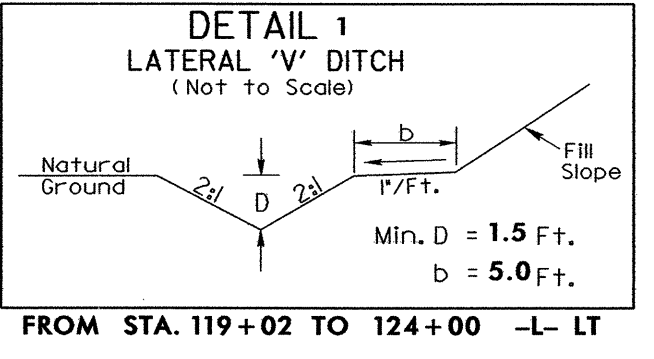
46 x 15 x 3
2 inch Skimmer
with 1.5 inch
Orifice Diameter
5 ft. weir

40 x 9 x 3
4' weir

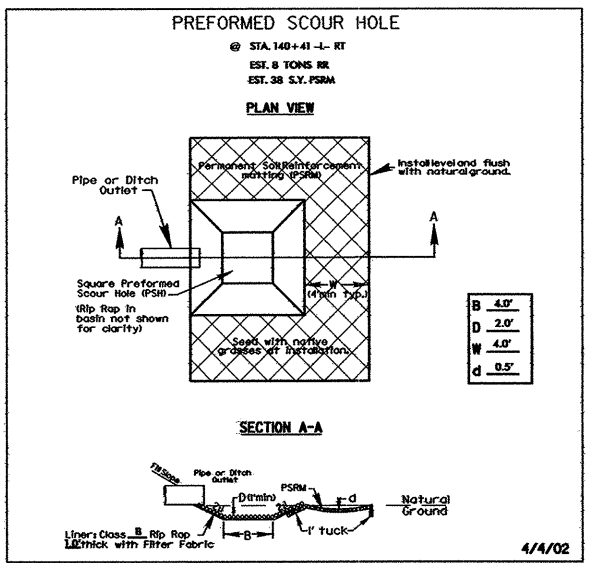
47 x 10 x 3
2 inch Skimmer
with 1.5 inch
Orifice Diameter
4 ft. weir

58 x 19 x 3
7' weir

39 x 17 x 3
6' weir

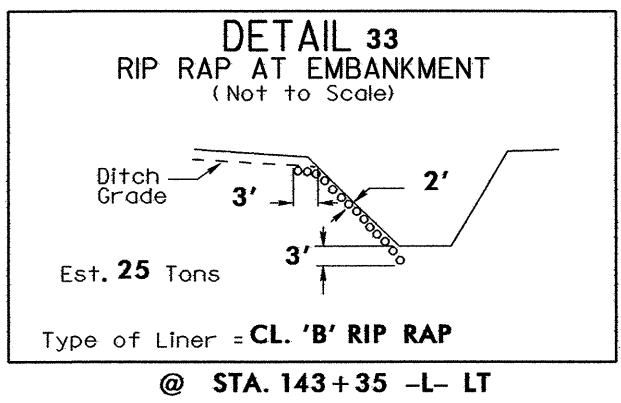


PROJECT REFERENCE NO.	SHEET NO.
R-3415	EC-38/CONST.13
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



-L-
 PI Sta 136+99.99
 $\Delta = 5' 31'' 11.9'' (RT)$
 $D = 0' 45' 39.2''$
 $L = 725.45'$
 $T = 363.01'$
 $R = 7,530.00'$
 $SE =$

-L-
 PI Sta 145+11.21
 $\Delta = 0' 15' 57.4'' (LT)$
 $D = 0' 06' 52.5''$
 $L = 232.08'$
 $T = 116.04'$
 $R = 50,000.00'$
 $SE =$



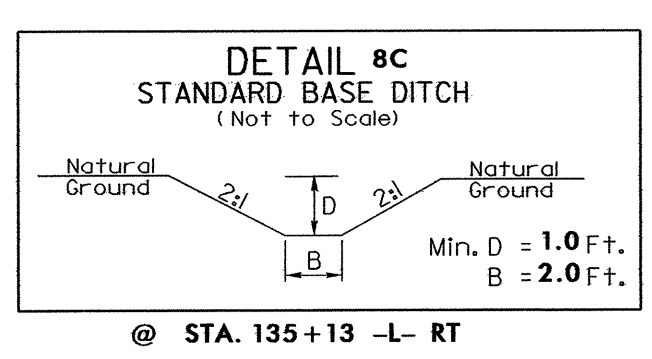
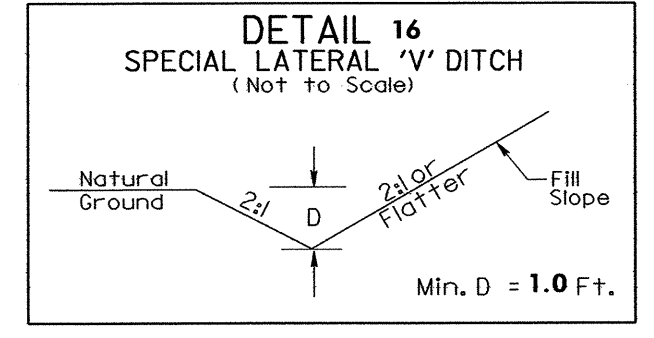
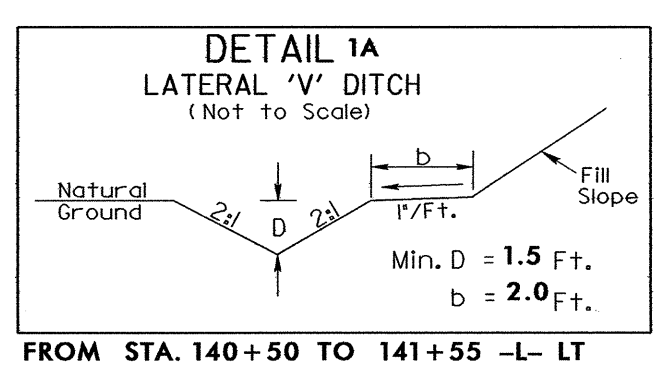
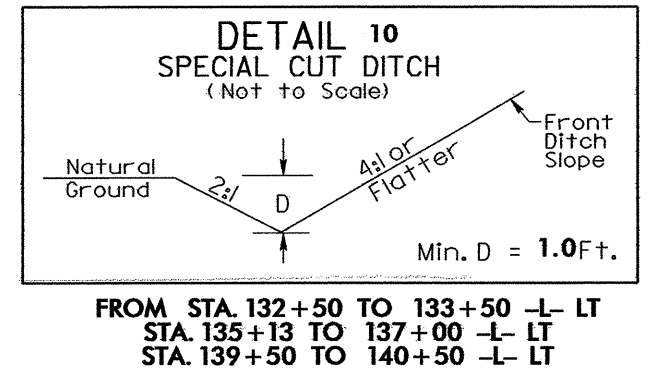
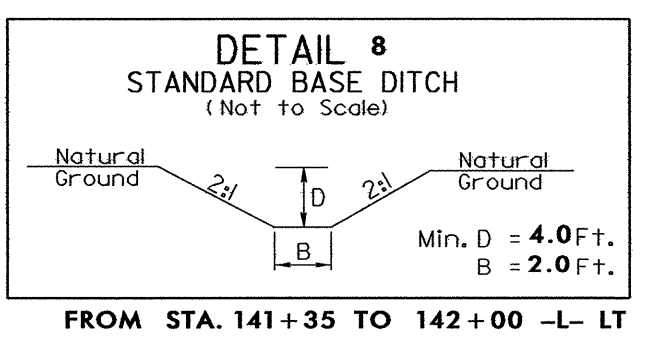
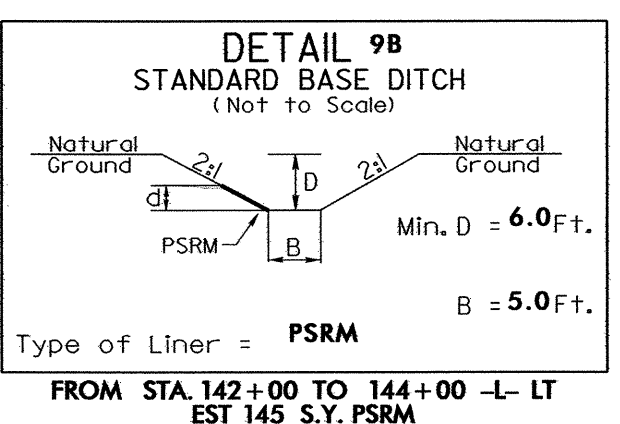
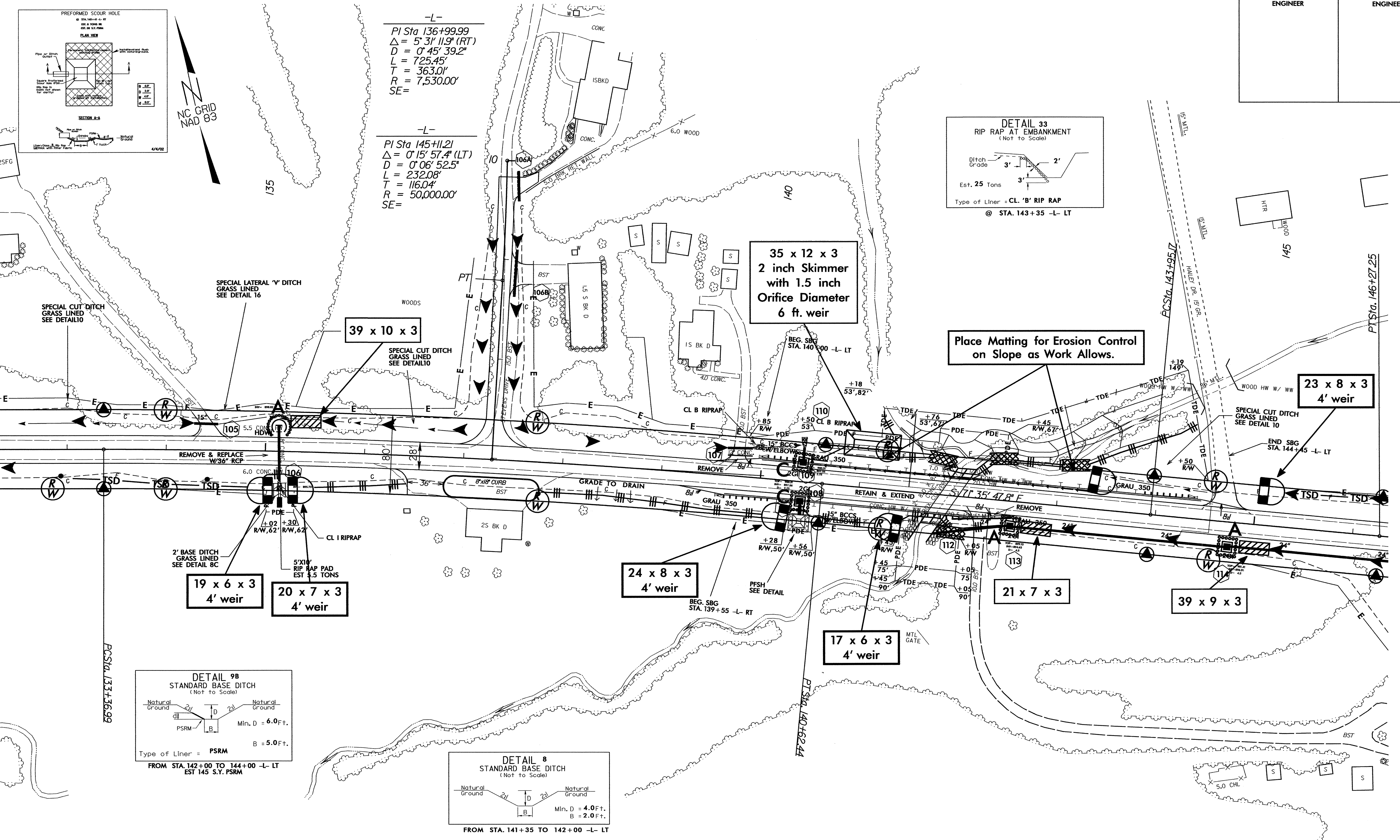
35 x 12 x 3
 2 inch Skimmer
 with 1.5 inch
 Orifice Diameter
 6 ft. weir

Place Matting for Erosion Control
 on Slope as Work Allows.

23 x 8 x 3
 4' weir

MATCH LINE SHEET 12

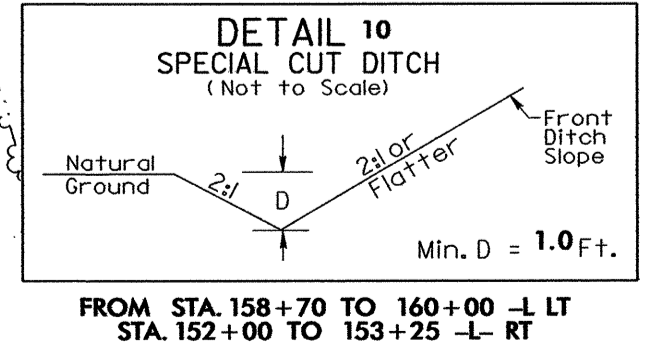
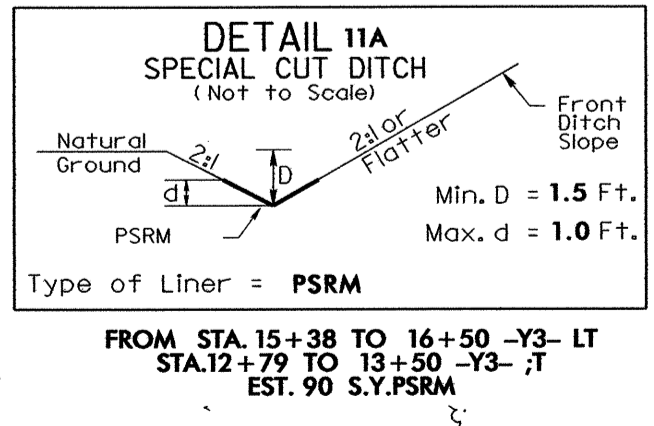
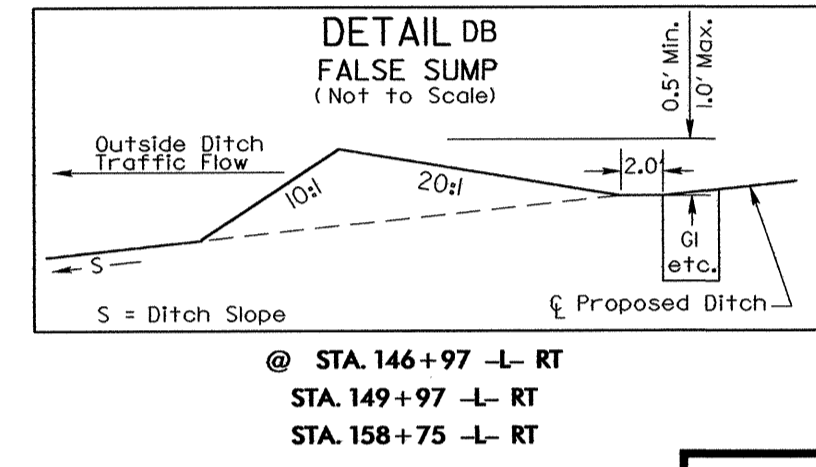
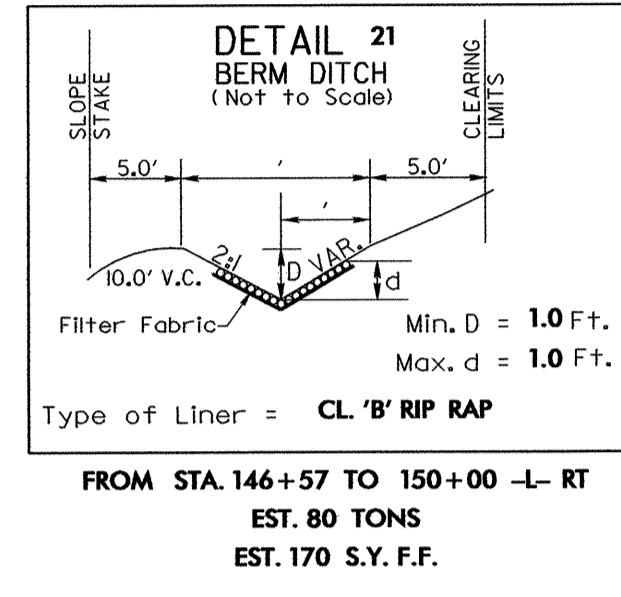
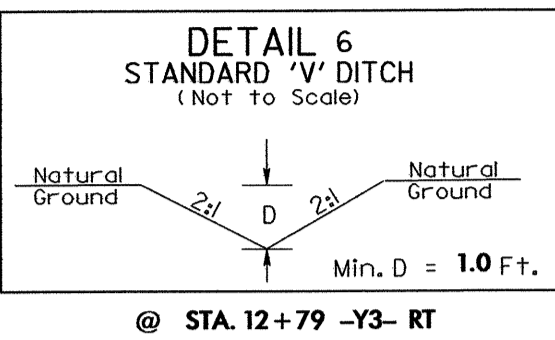
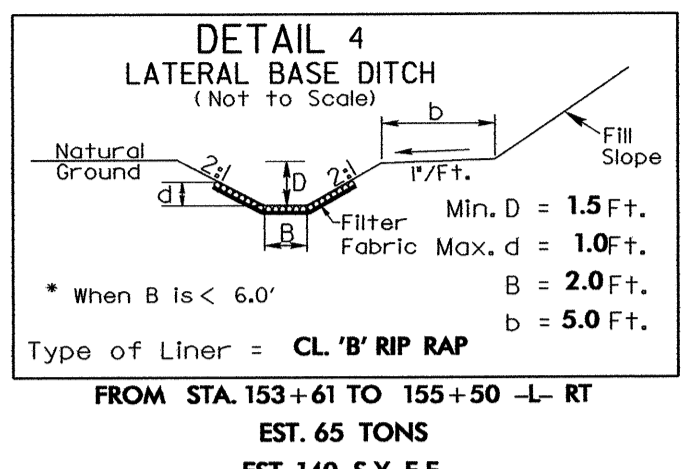
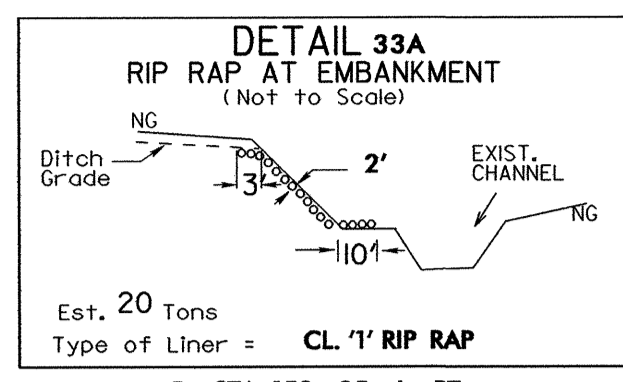
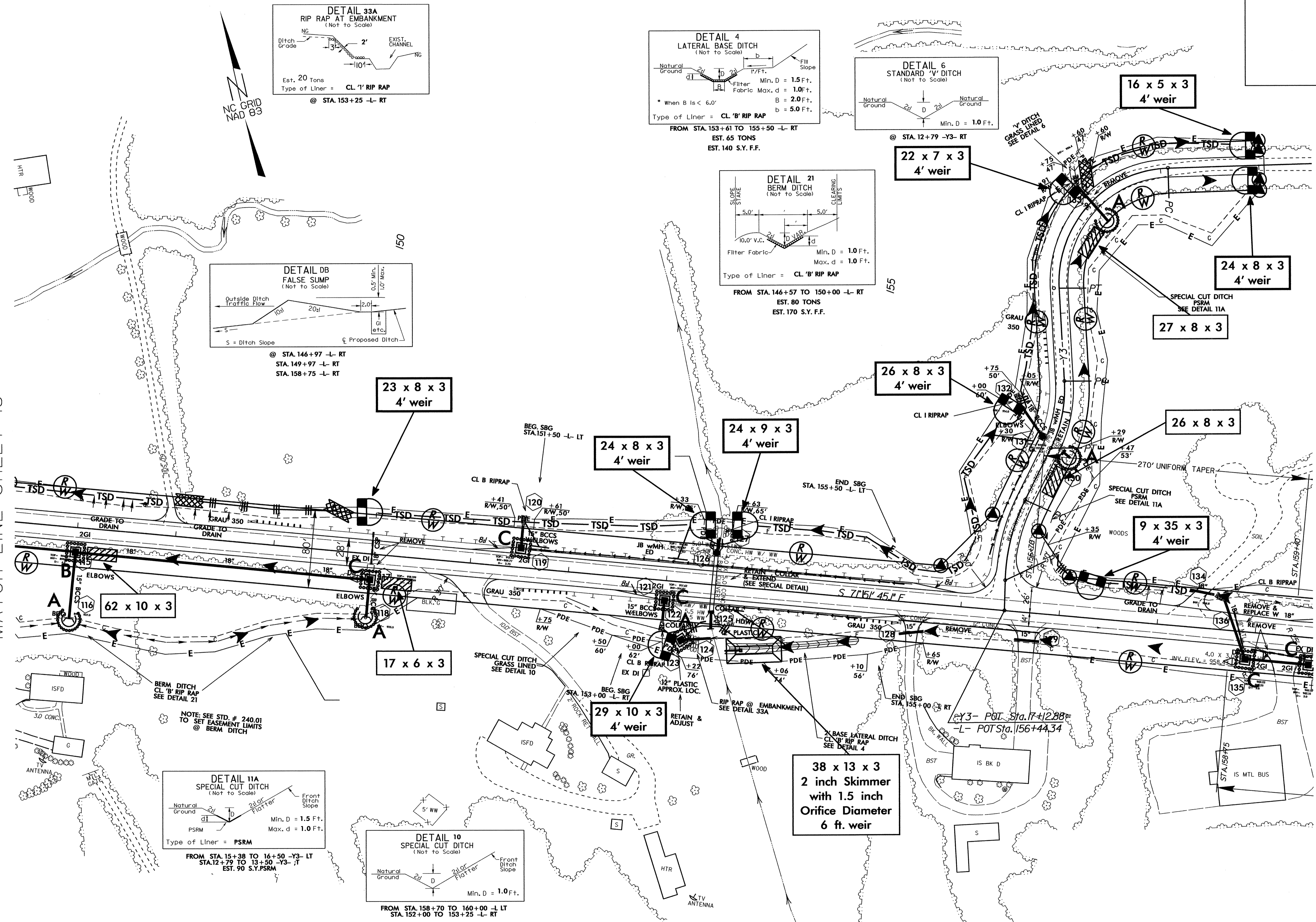
MATCH LINE SHEET 14



PROJECT REFERENCE NO.	SHEET NO.
R-3415	EC-39/CONST.14
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

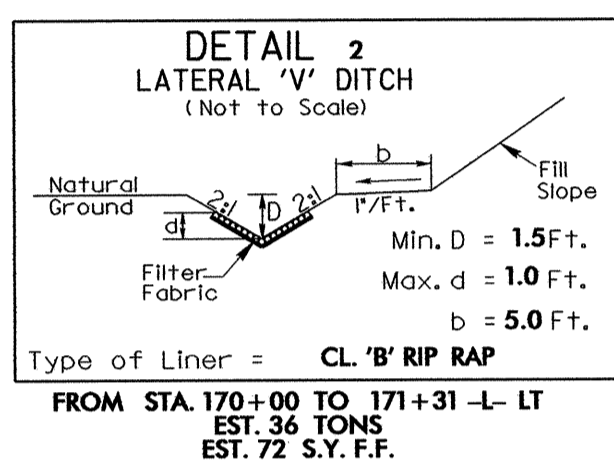
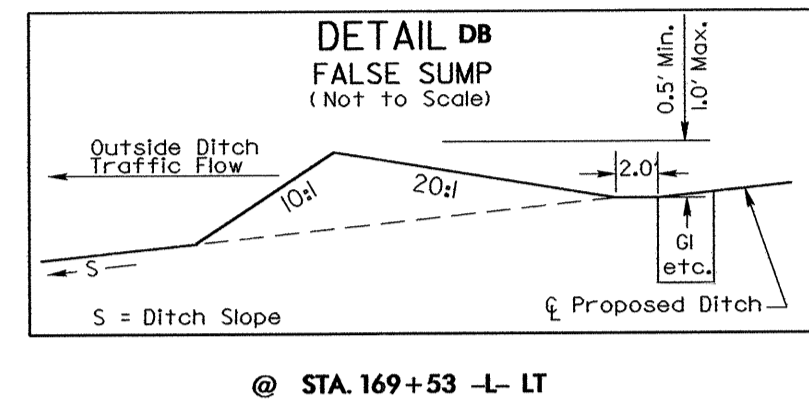
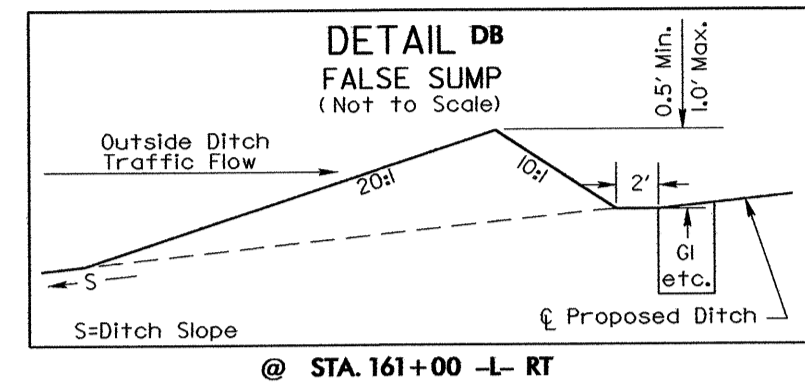
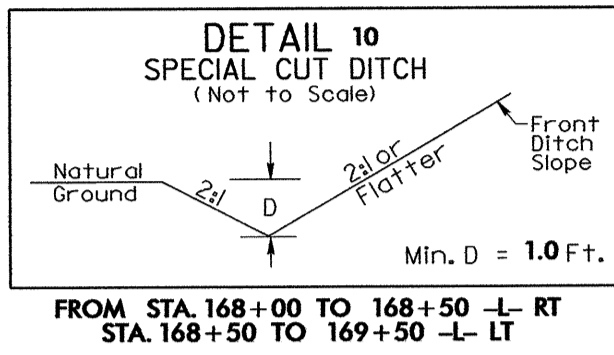
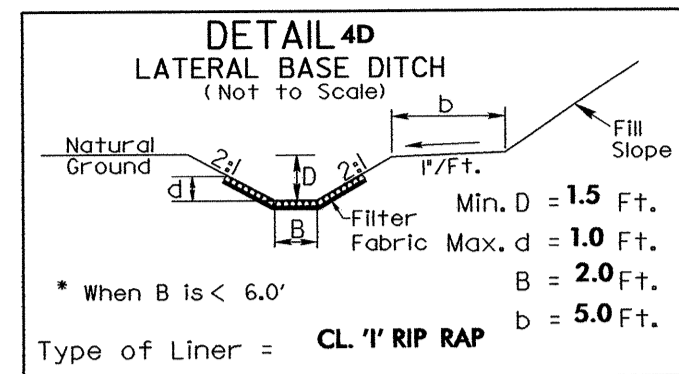
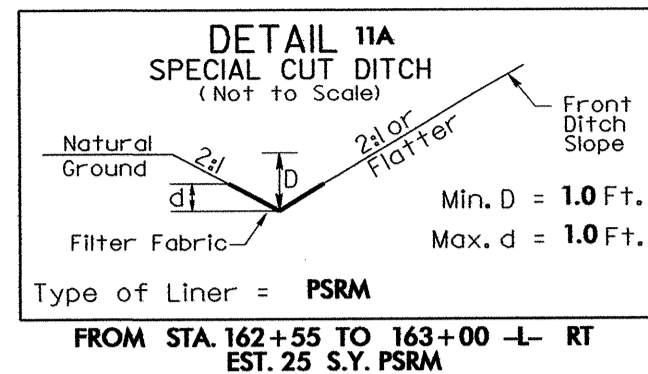
MATCH LINE SHEET 13

MATCH LINE SHEET 15



NOTE: SEE STD. # 240.01 TO SET EASEMENT LIMITS @ BERM DITCH

PROJECT REFERENCE NO.		SHEET NO.	
R-3415		EC-40/CONST.15	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	



28 x 14 x 3
2 inch Skimmer
with 1.5 inch
Orifice Diameter
5 ft. weir
(See Tiered Skimmer
Basin Detail)

**Modified Silt Basin
Type 'B'**
28 x 14 x 3
5 ft. weir
(See Tiered Skimmer
Basin Detail)

31 x 15 x 3
2 inch Skimmer
with 1.5 inch
Orifice Diameter
10 ft. weir
(See Tiered Skimmer
Basin Detail)

**Modified Silt Basin
Type 'B'**
31 x 15 x 3
10 ft. weir
(See Tiered Skimmer
Basin Detail)

39 x 12 x 3
2 inch Skimmer
with 1.5 inch
Orifice Diameter
5 ft. weir

25 x 8 x 3
4' weir

16 x 5 x 3

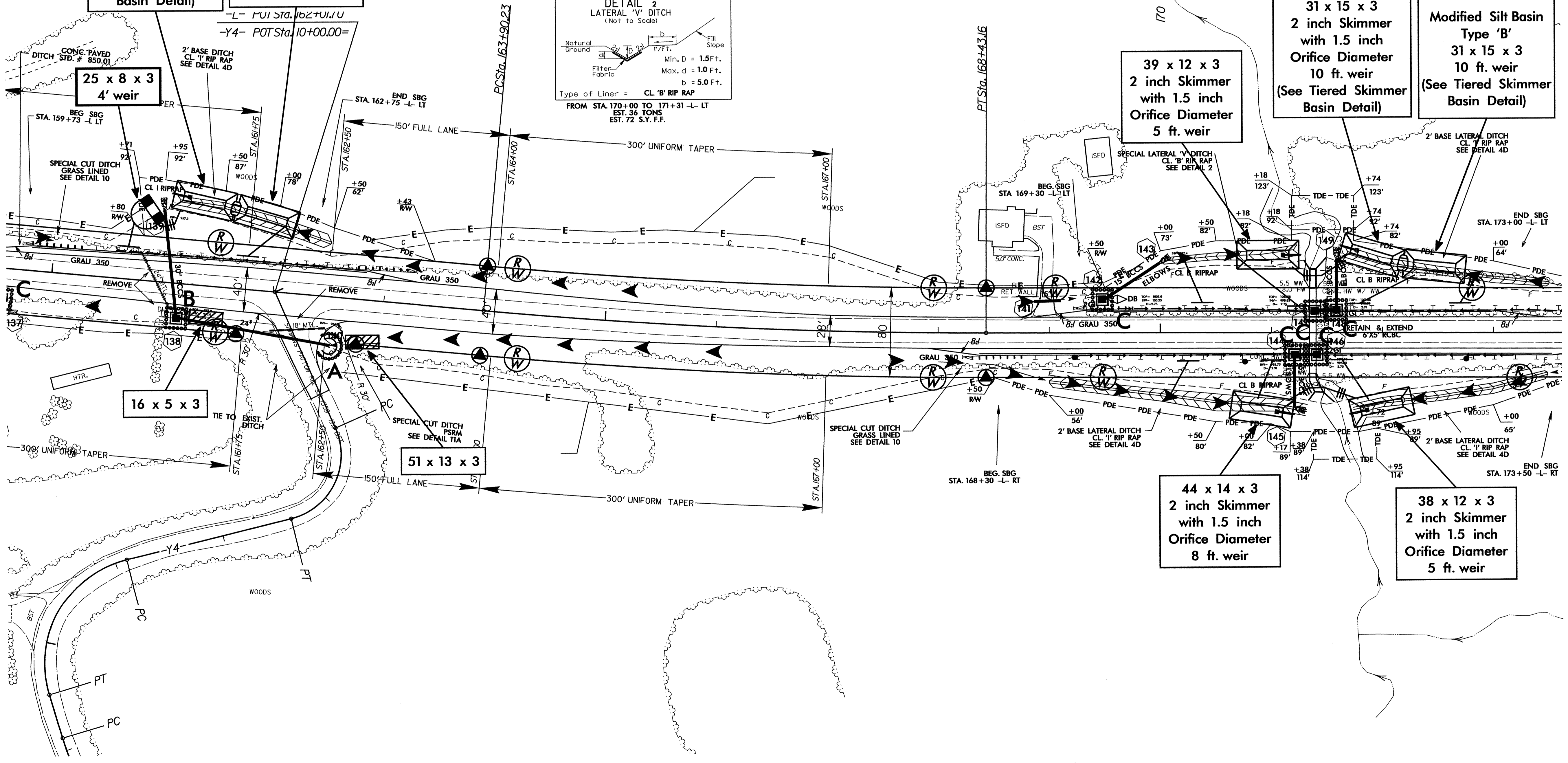
51 x 13 x 3

44 x 14 x 3
2 inch Skimmer
with 1.5 inch
Orifice Diameter
8 ft. weir

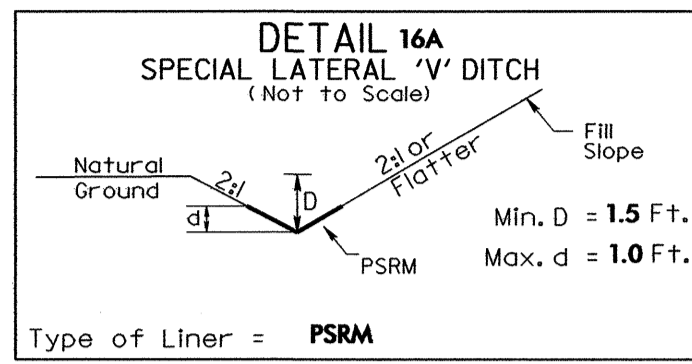
38 x 12 x 3
2 inch Skimmer
with 1.5 inch
Orifice Diameter
5 ft. weir

MATCH LINE SHEET 14

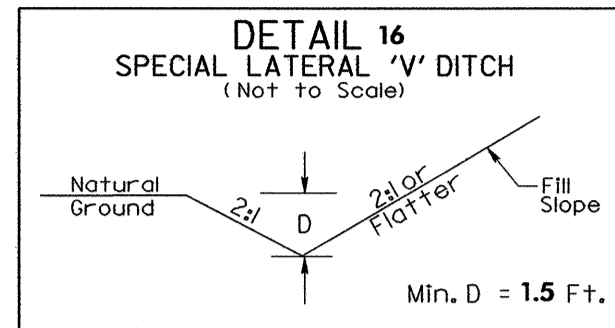
MATCH LINE SHEET 16



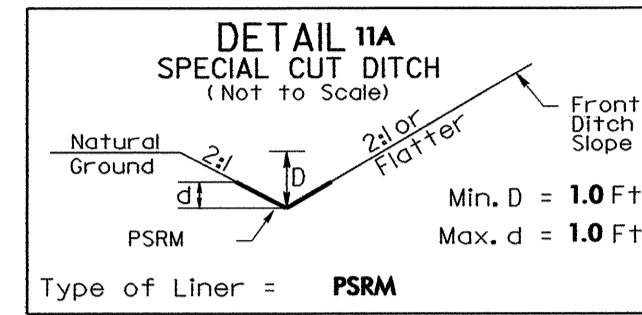
PROJECT REFERENCE NO.	SHEET NO.
R-3415	EC-41/CONST.16
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



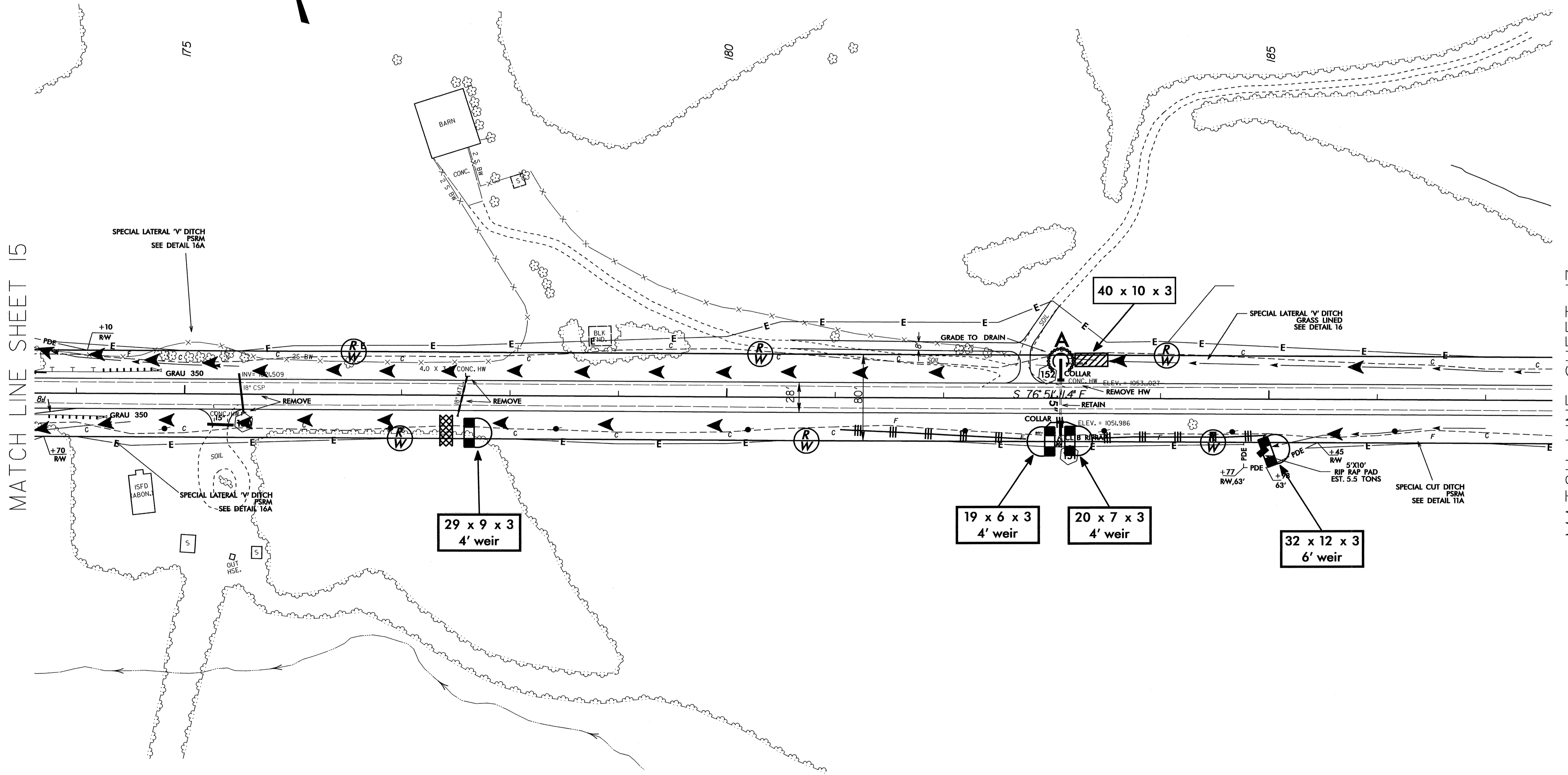
FROM STA. 173+50 TO 174+50 -L- RT
 STA. 173+50 TO 175+50 -L- LT
 EST. 150 S.Y. PSRM TOTAL



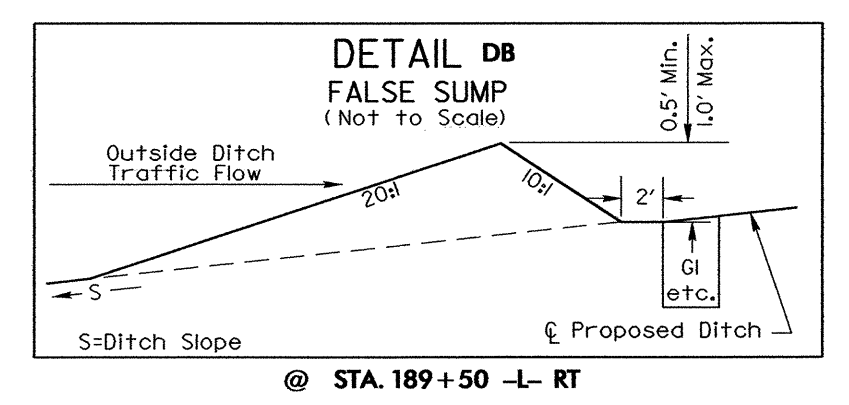
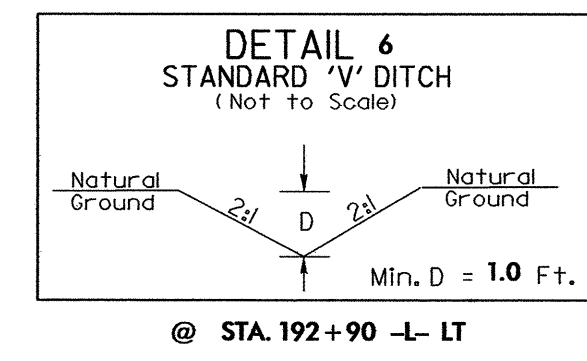
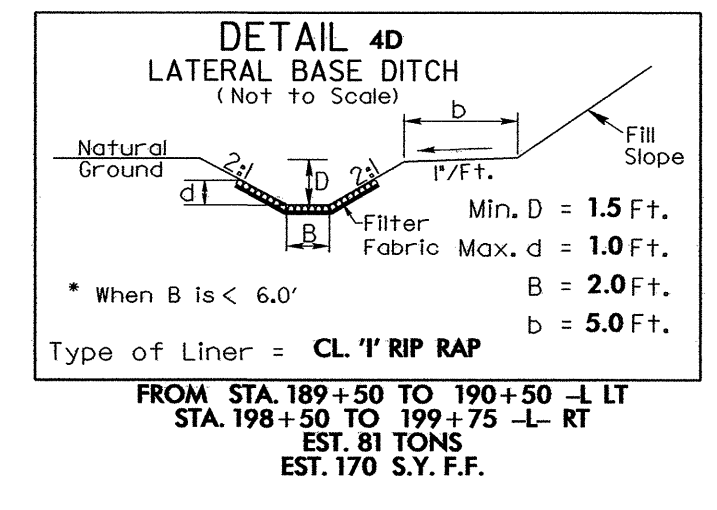
FROM STA. 182+91 TO 185+50 -L-



FROM STA. 185+00 TO 187+00 -L- RT
 EST. 100 S.Y. PSRM

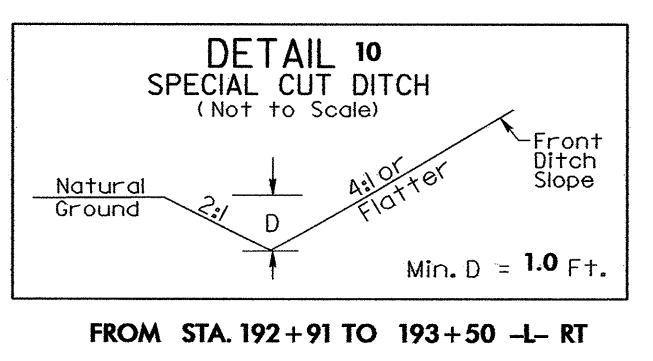
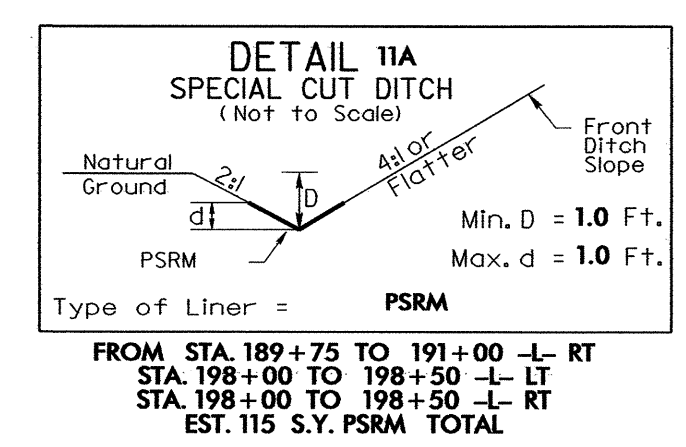
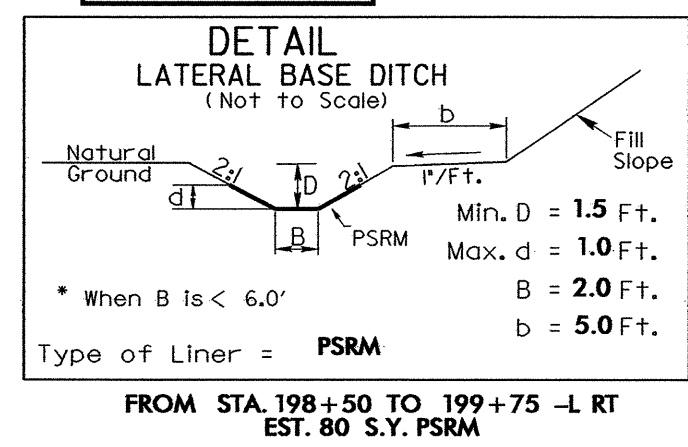
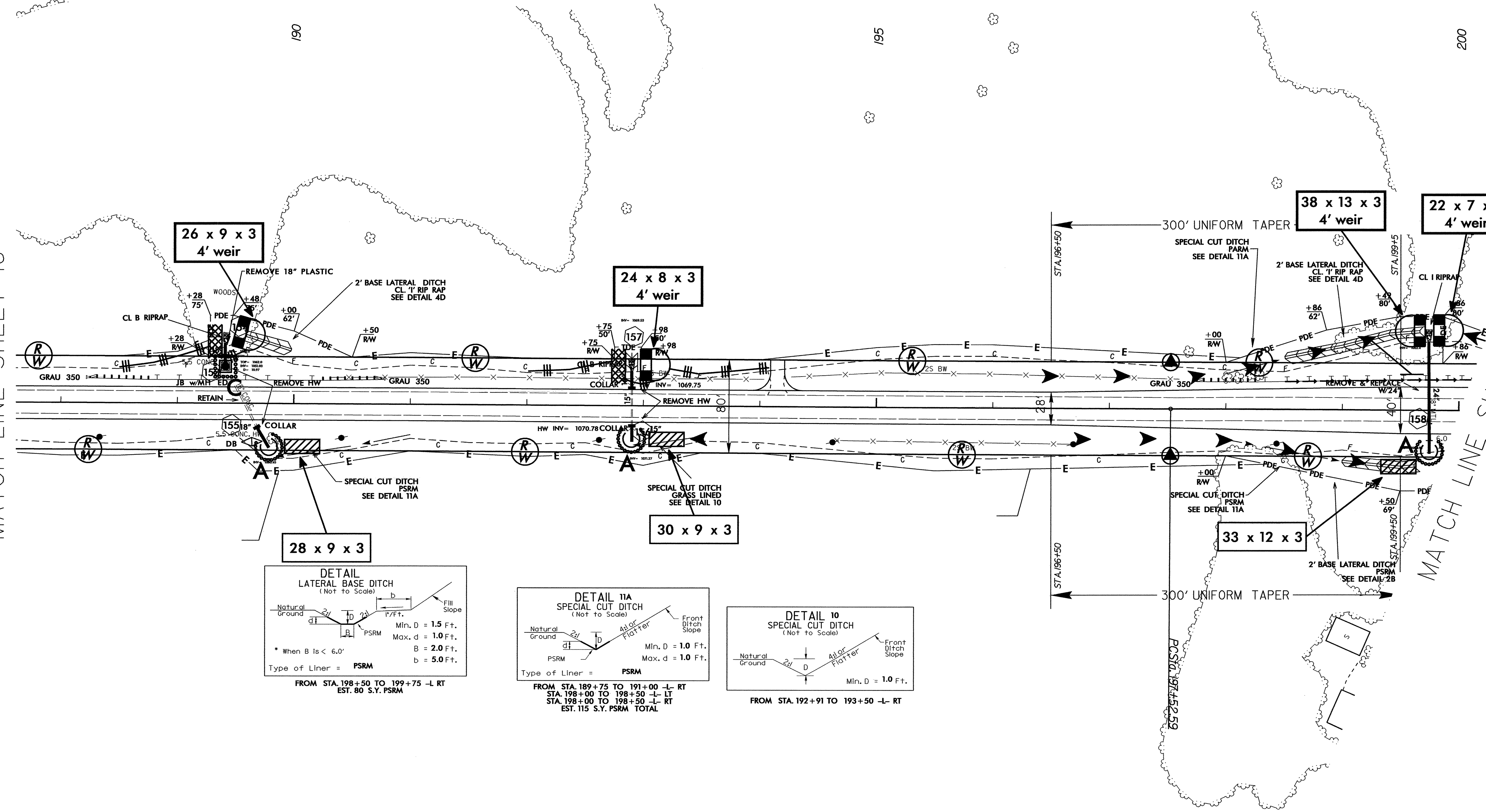


PROJECT REFERENCE NO. R-3415	SHEET NO. EC-42/CONST.17
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

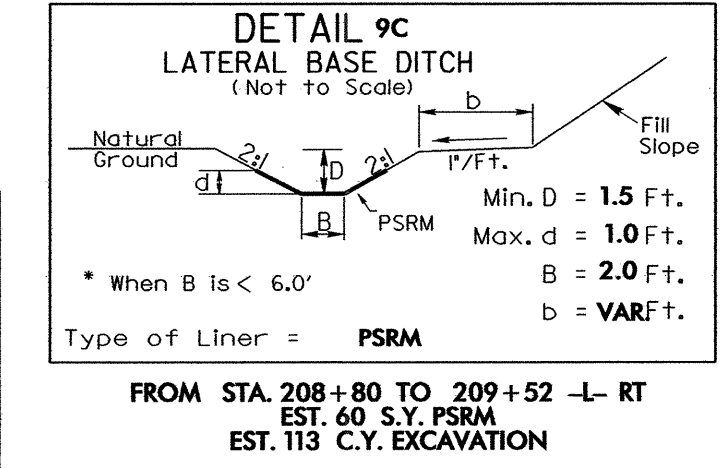
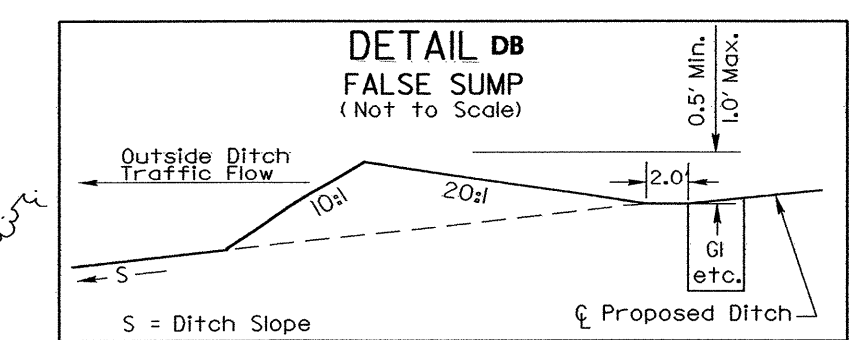
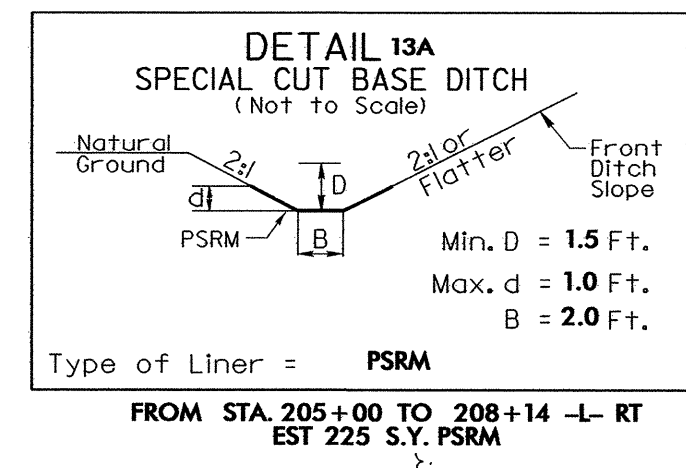
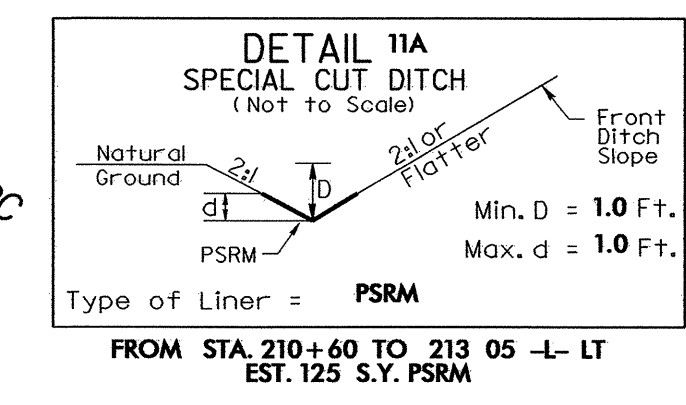
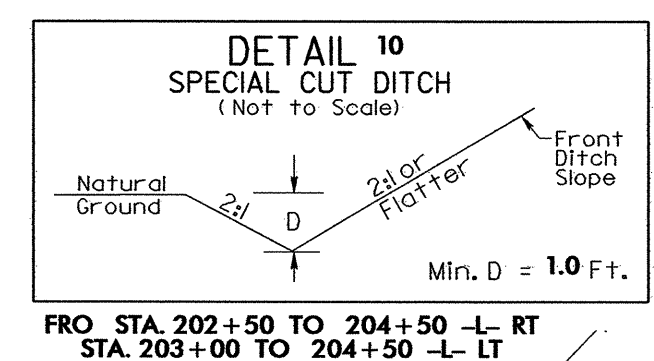
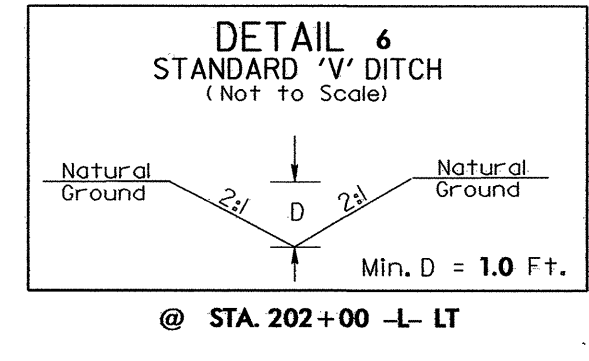


MATCH LINE SHEET 16

MATCH LINE SHEET 18



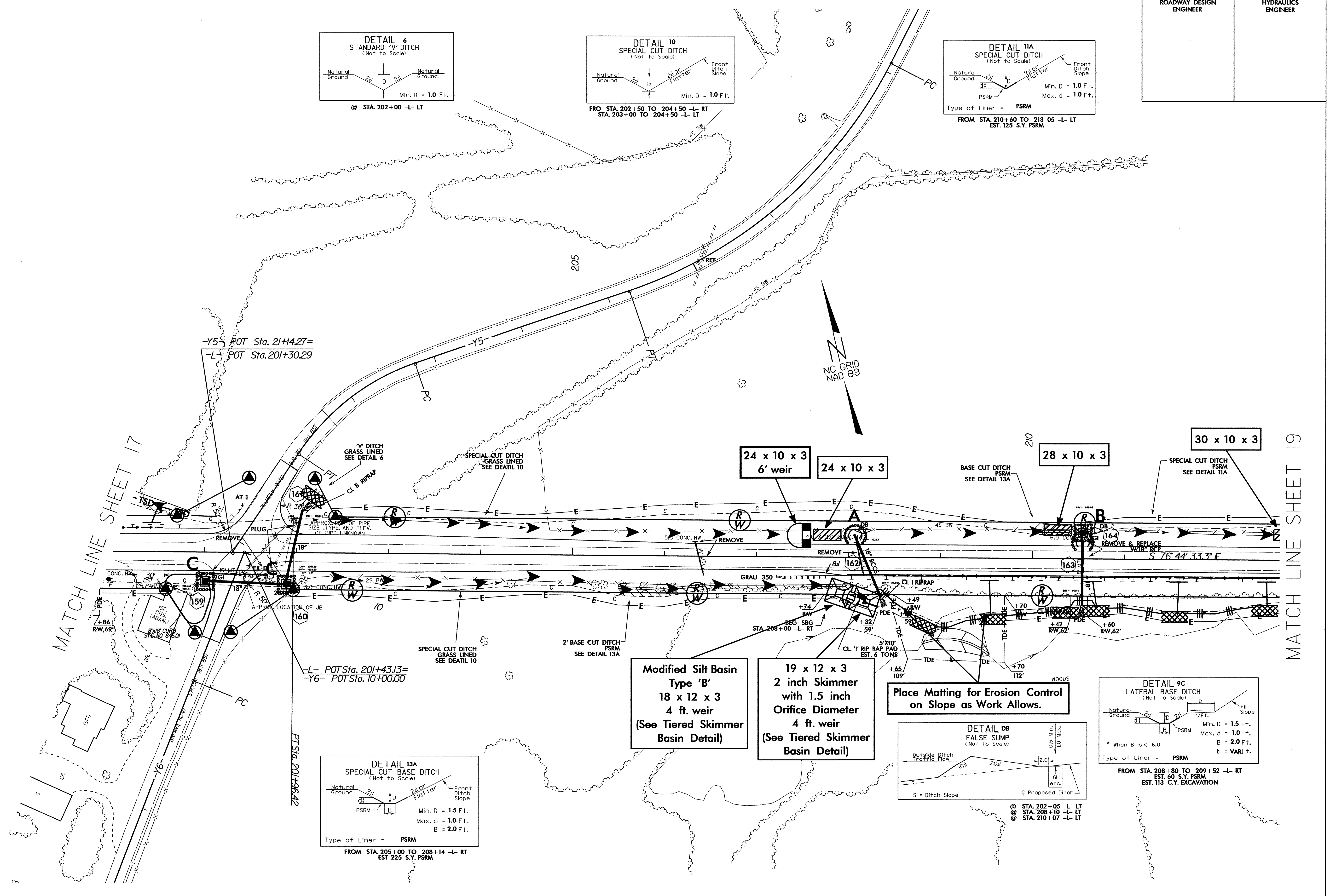
PROJECT REFERENCE NO.		SHEET NO.	
R-3415		EC-43/CONST.18	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	



Modified Silt Basin
Type 'B'
18 x 12 x 3
4 ft. weir
(See Tiered Skimmer Basin Detail)

19 x 12 x 3
2 inch Skimmer
with 1.5 inch
Orifice Diameter
4 ft. weir
(See Tiered Skimmer Basin Detail)

Place Matting for Erosion Control
on Slope as Work Allows.

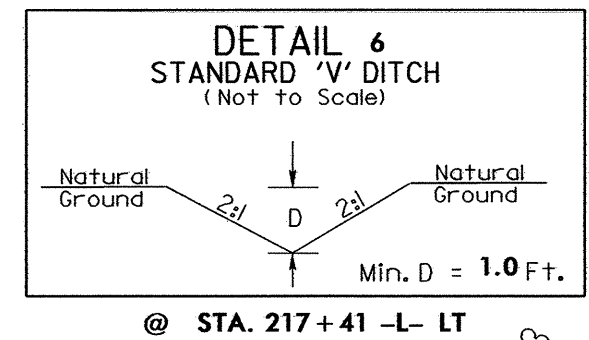
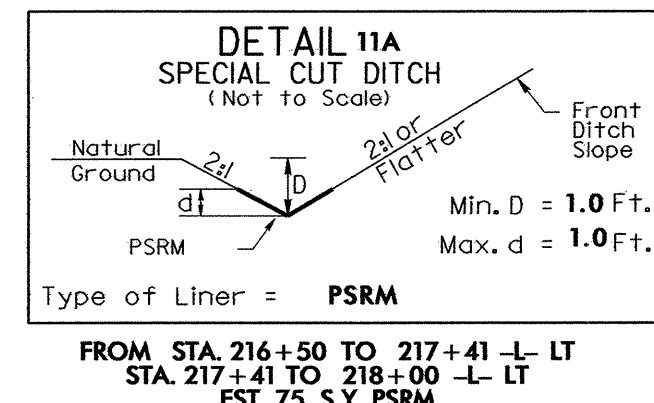


MATCH LINE SHEET 17

MATCH LINE SHEET 19

@ STA. 202+05 -L- LT
@ STA. 208+10 -L- LT
@ STA. 210+07 -L- LT

PROJECT REFERENCE NO.		SHEET NO.	
R-3415		EC-44/CONST.19	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	



14 x 7 x 3

25 x 10 x 3
8' weir

25 x 10 x 3

18 x 7 x 3

33 x 10 x 3
2 inch Skimmer
with 1.5 inch
Orifice Diameter
4 ft. weir

23 x 8 x 3
2 inch Skimmer
with 1.5 inch
Orifice Diameter
4 ft. weir

21 x 7 x 3
4' weir

36 x 12 x 3
2 inch Skimmer
with 1.5 inch
Orifice Diameter
4 ft. weir

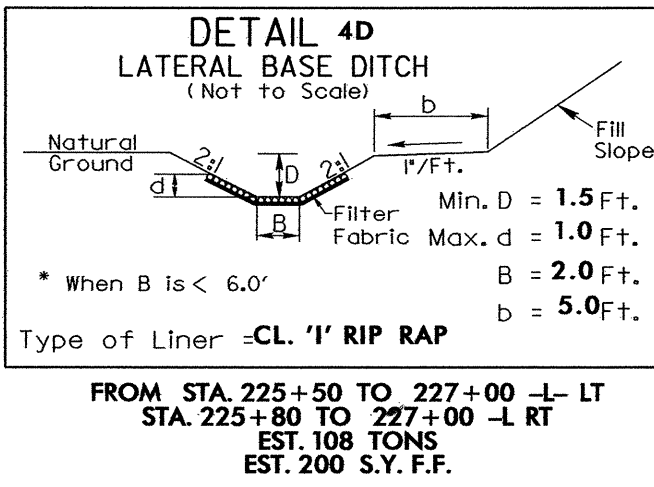
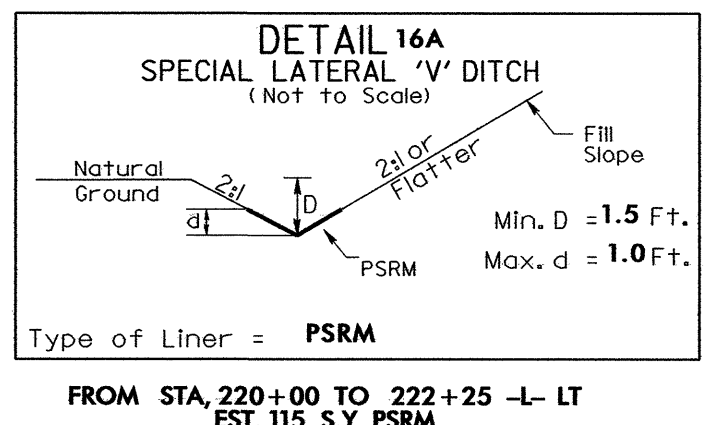
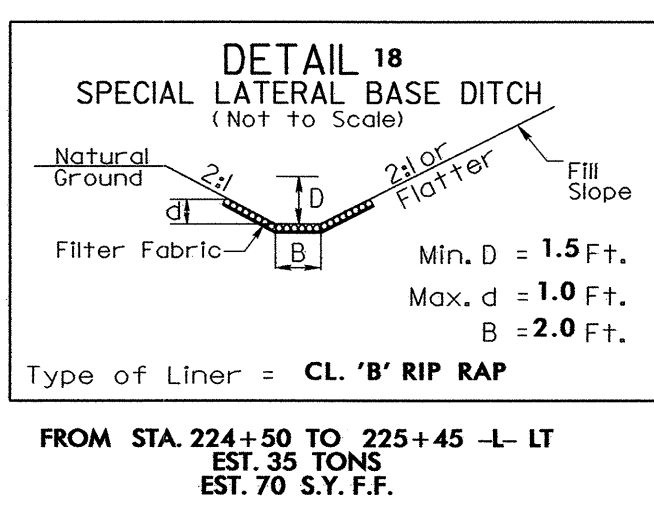
26 x 9 x 3
4' weir

27 x 9 x 3
2 inch Skimmer
with 1.5 inch
Orifice Diameter
4 ft. weir

24 x 7 x 3
4' weir

20 x 7 x 3
4' weir

36 x 12 x 3
4' weir



MATCH LINE SHEET 18

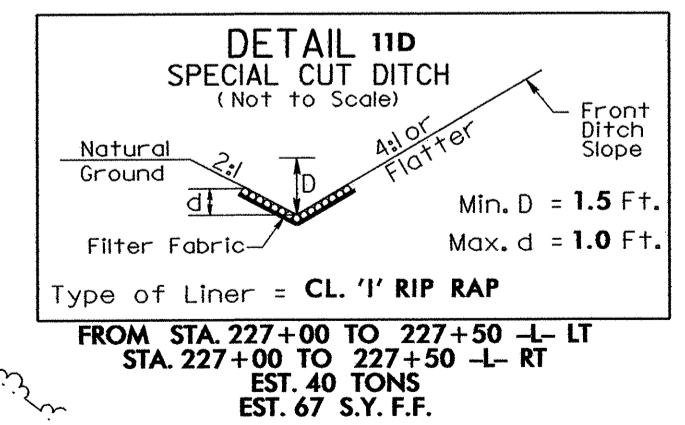
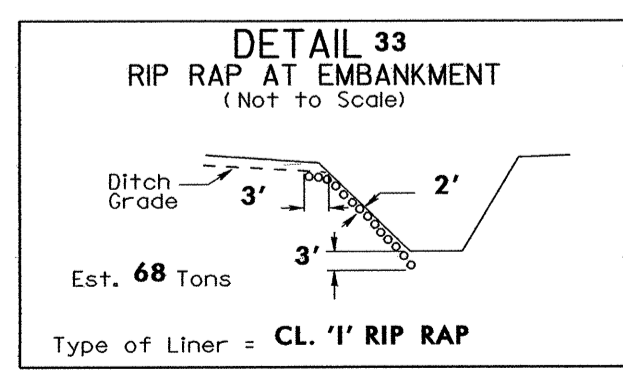
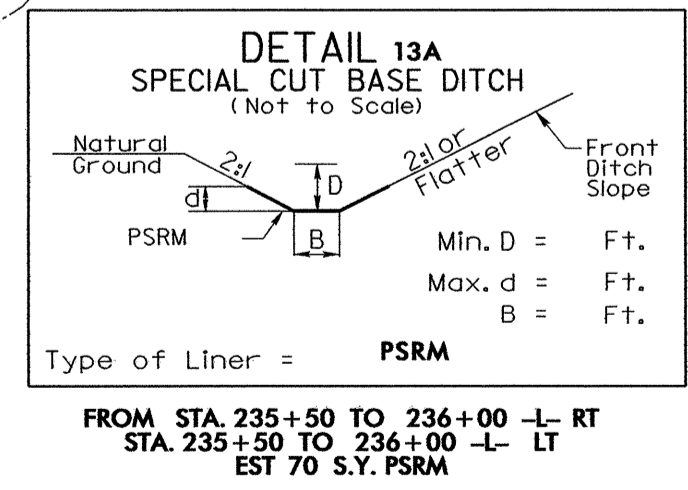
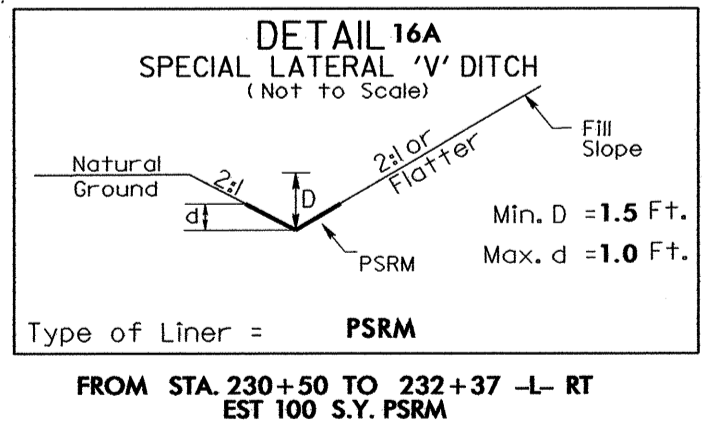
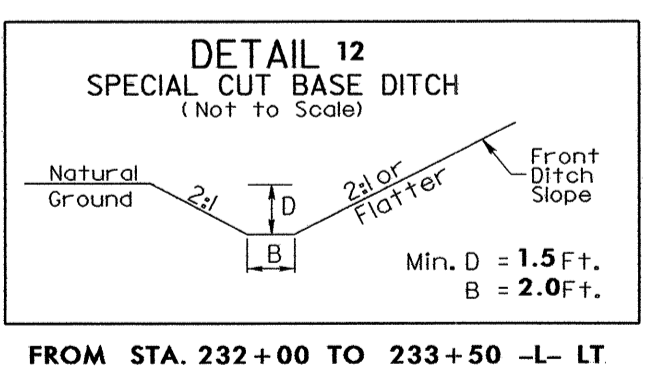
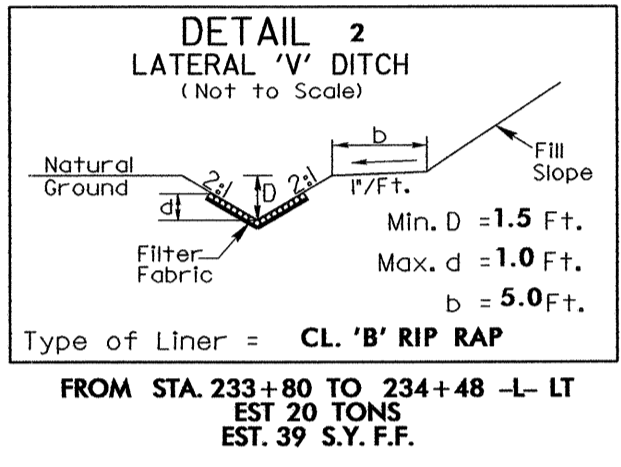
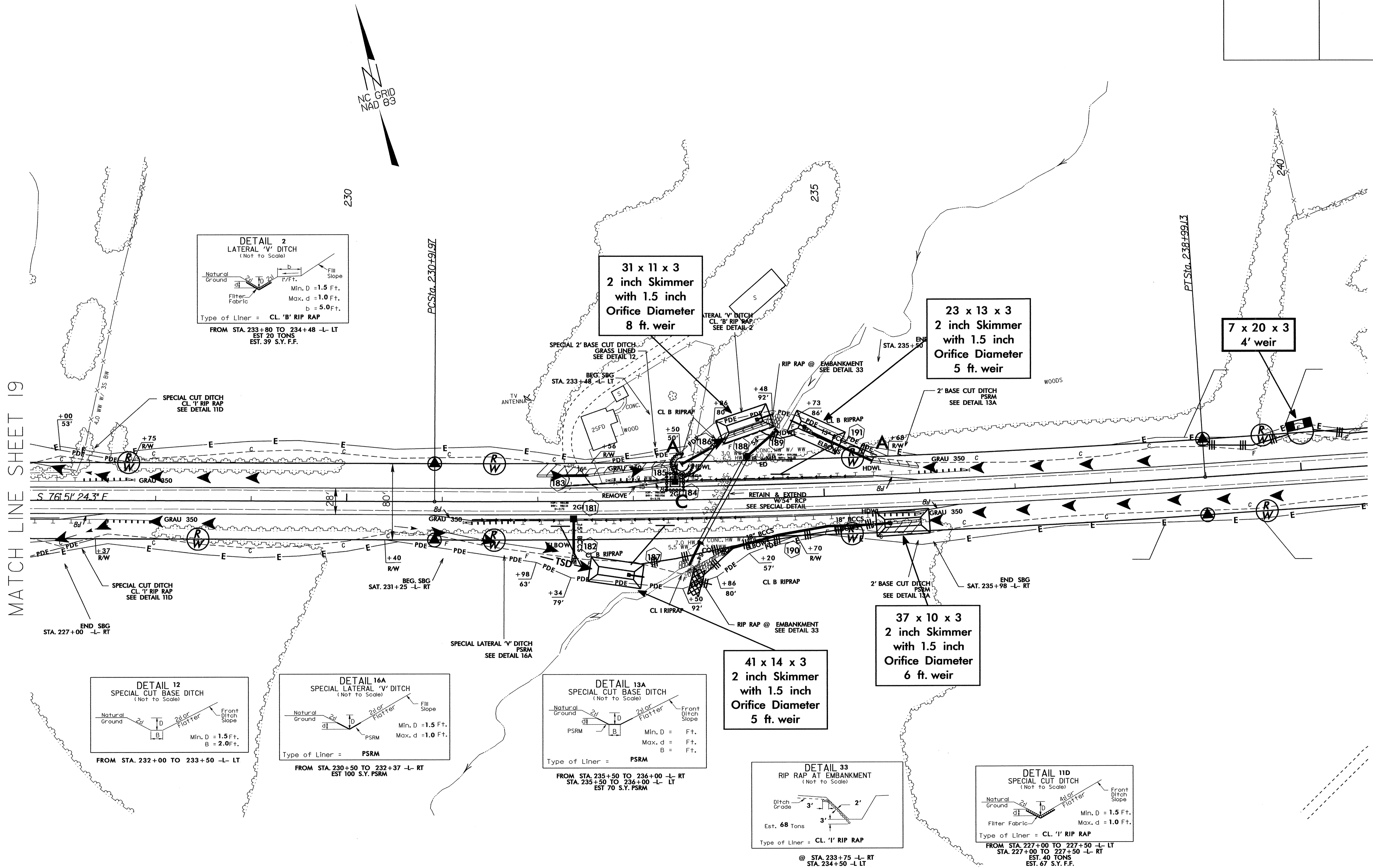
MATCH LINE SHEET 20

PROJECT REFERENCE NO.	SHEET NO.
R-3415	EC-45/CONST.20
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

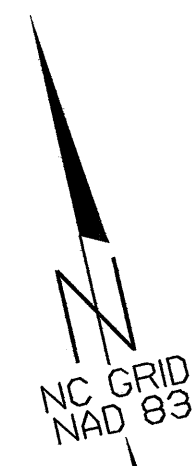
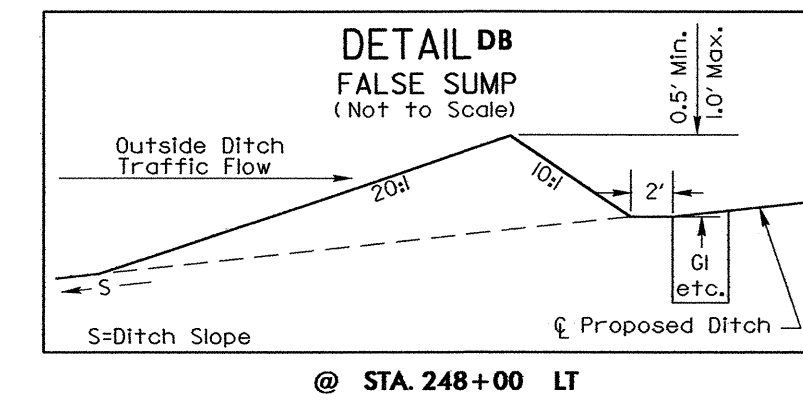
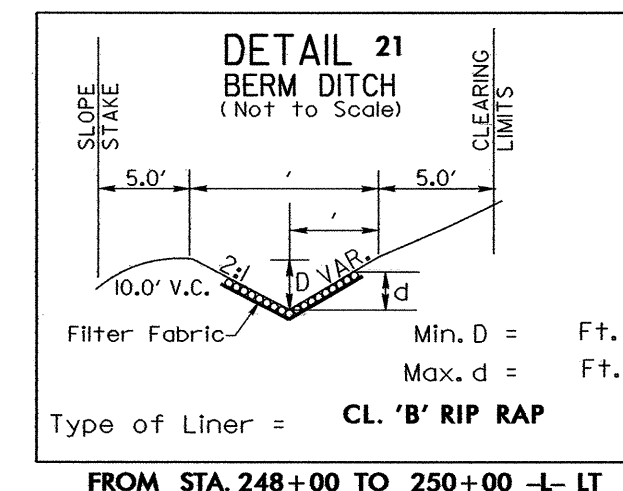
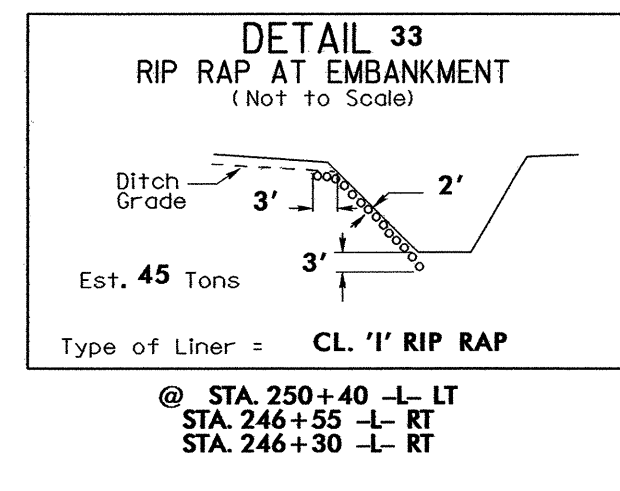
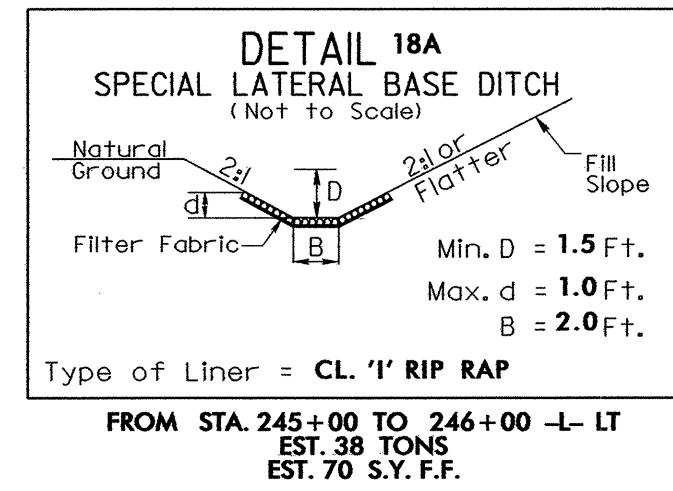


MATCH LINE SHEET 19

MATCH LINE SHEET 21



PROJECT REFERENCE NO. R-3415	SHEET NO. EC-46/CONST.21
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



MATCH LINE SHEET 20

MATCH LINE SHEET 22

Modified Silt Basin Type 'B'
20 x 15 x 3
2 inch Skimmer with 1.5 inch Orifice Diameter
5 ft. weir
(See Tiered Skimmer Basin Detail)

20 x 15 x 3
2 inch Skimmer with 1.5 inch Orifice Diameter
5 ft. weir
(See Tiered Skimmer Basin Detail)

28 x 9 x 3
2 inch Skimmer with 1.5 inch Orifice Diameter
4 ft. weir
(See Tiered Skimmer Basin Detail)

Modified Silt Basin Type 'B'
14 x 9 x 3
4 ft. weir
(See Tiered Skimmer Basin Detail)

27 x 17 x 3
2 inch Skimmer with 1.5 inch Orifice Diameter
10 ft. weir
(See Tiered Skimmer Basin Detail)

Modified Silt Basin Type 'B'
27 x 17 x 3
10 ft. weir
(See Tiered Skimmer Basin Detail)

Modified Silt Basin Type 'B'
20 x 13 x 3
2 inch Skimmer with 1.5 inch Orifice Diameter
5 ft. weir
(See Tiered Skimmer Basin Detail)

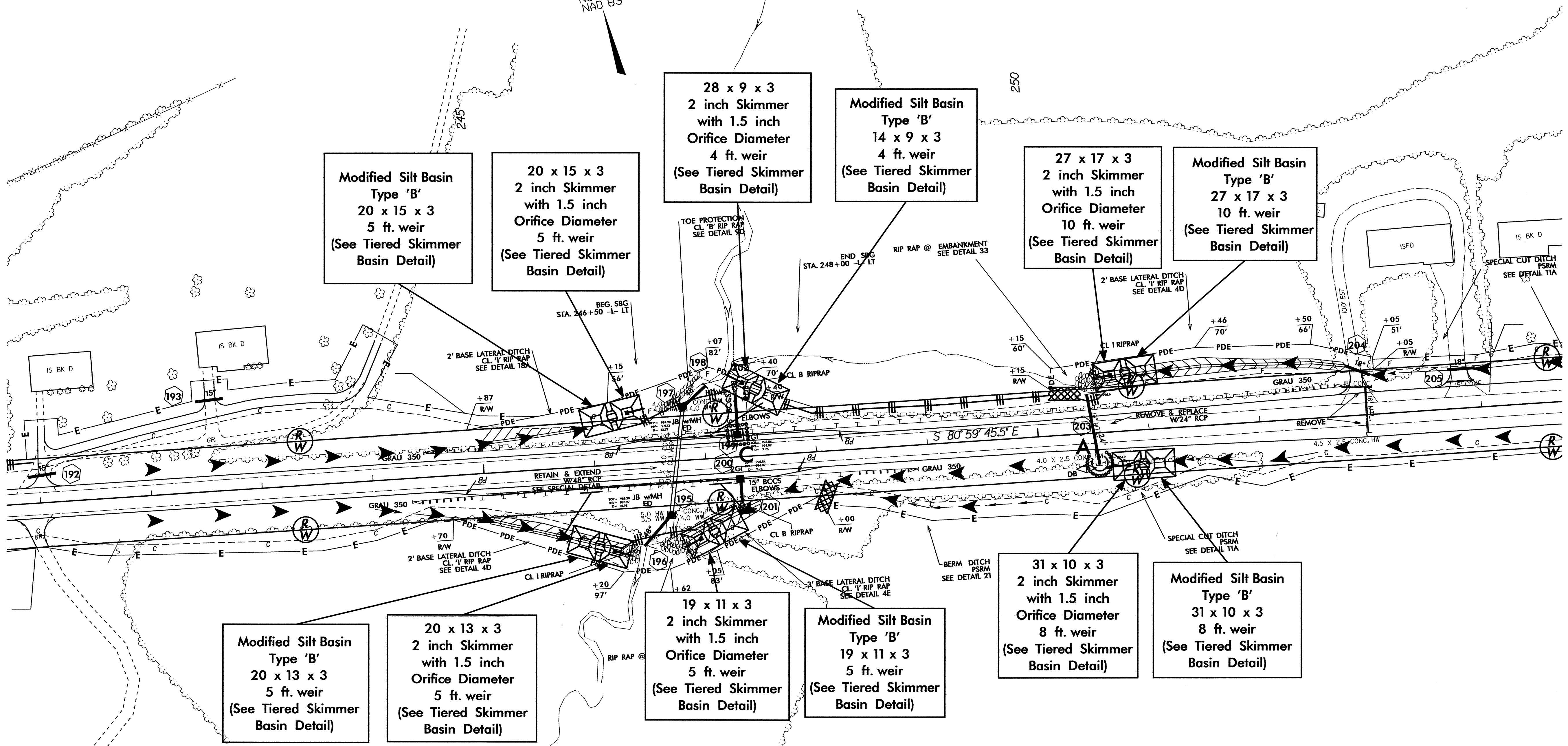
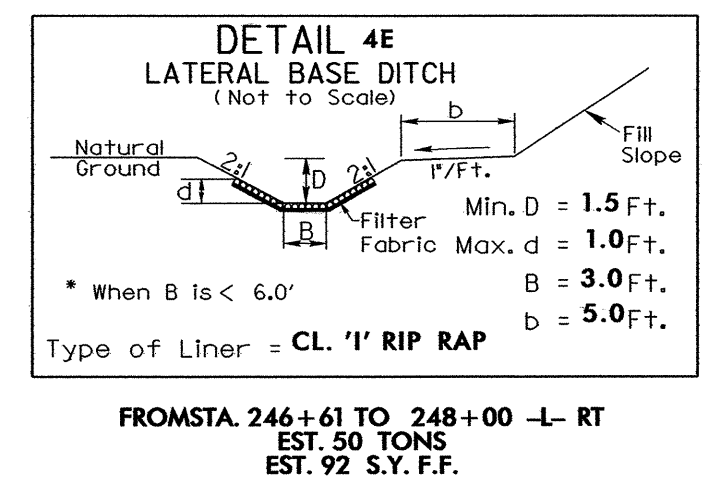
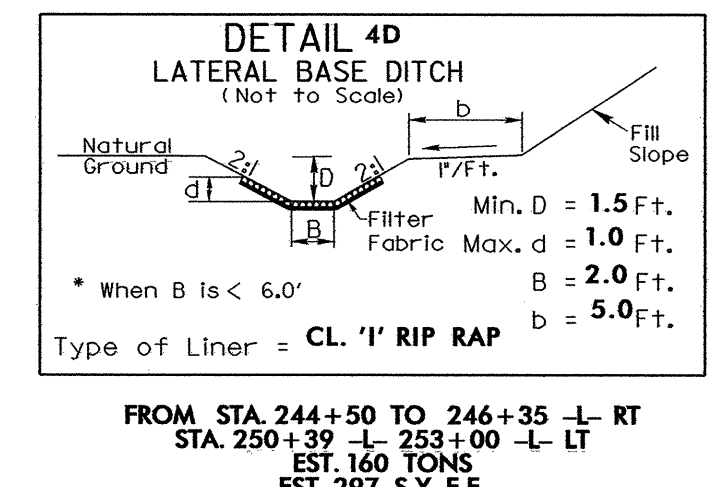
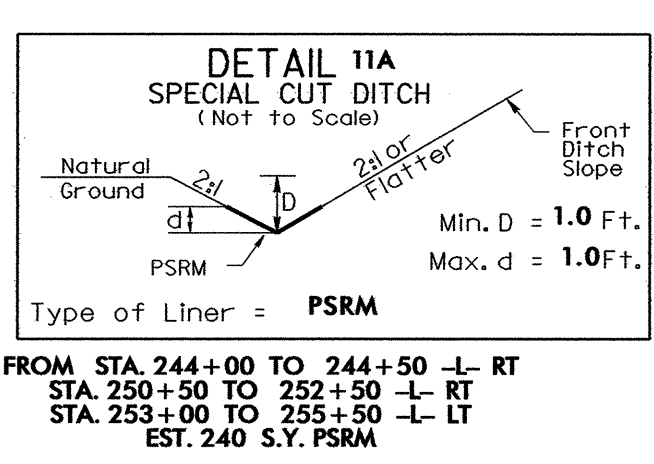
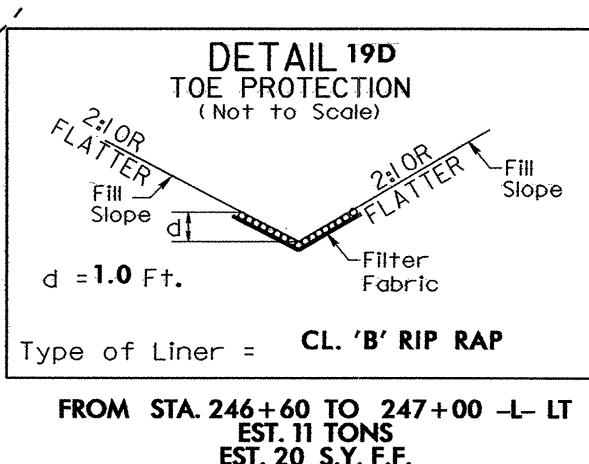
20 x 13 x 3
2 inch Skimmer with 1.5 inch Orifice Diameter
5 ft. weir
(See Tiered Skimmer Basin Detail)

19 x 11 x 3
2 inch Skimmer with 1.5 inch Orifice Diameter
5 ft. weir
(See Tiered Skimmer Basin Detail)

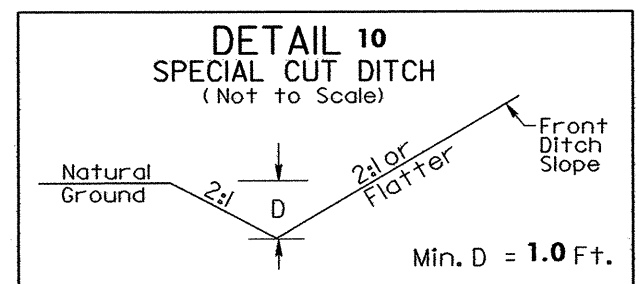
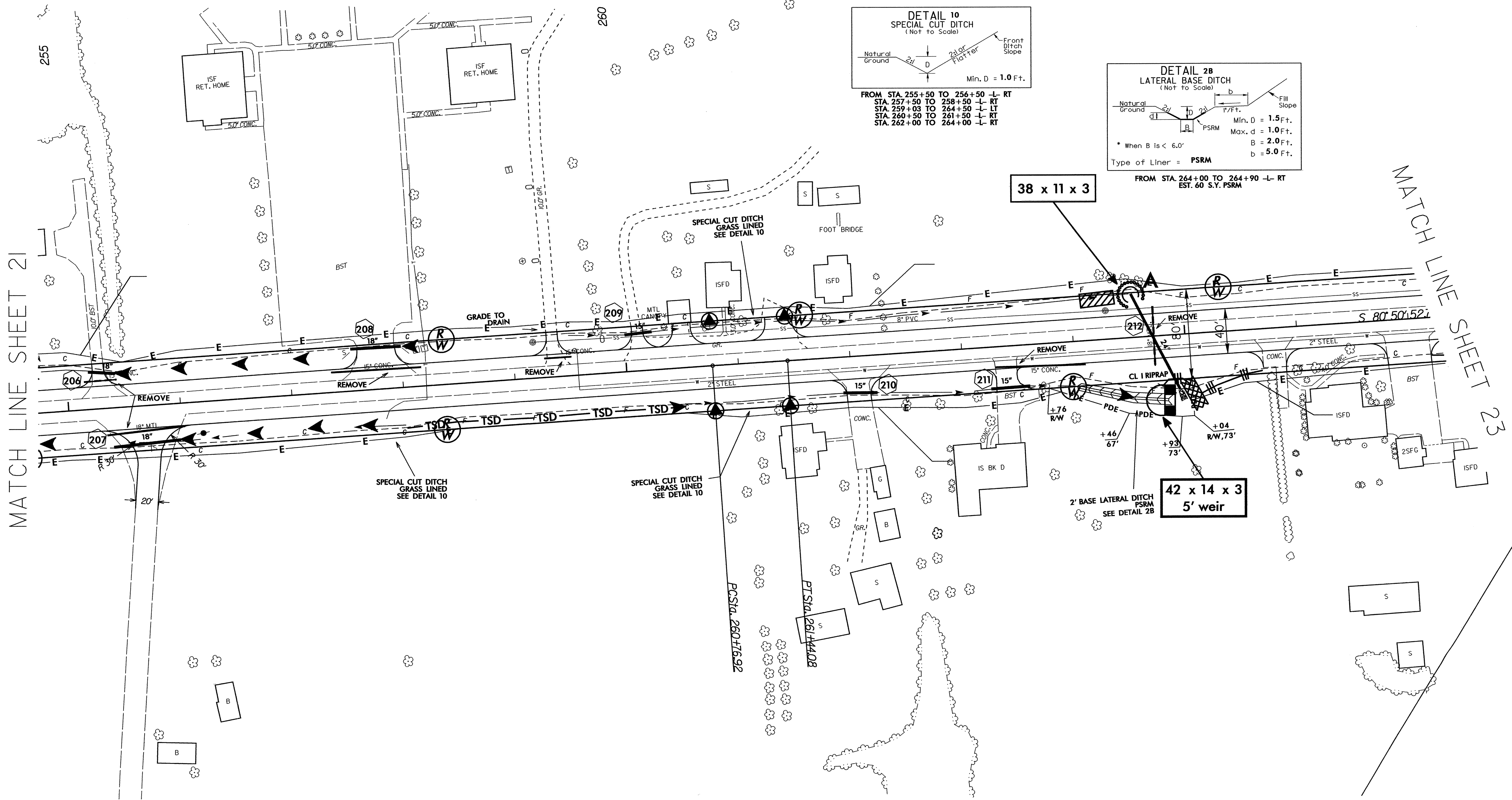
Modified Silt Basin Type 'B'
19 x 11 x 3
5 ft. weir
(See Tiered Skimmer Basin Detail)

31 x 10 x 3
2 inch Skimmer with 1.5 inch Orifice Diameter
8 ft. weir
(See Tiered Skimmer Basin Detail)

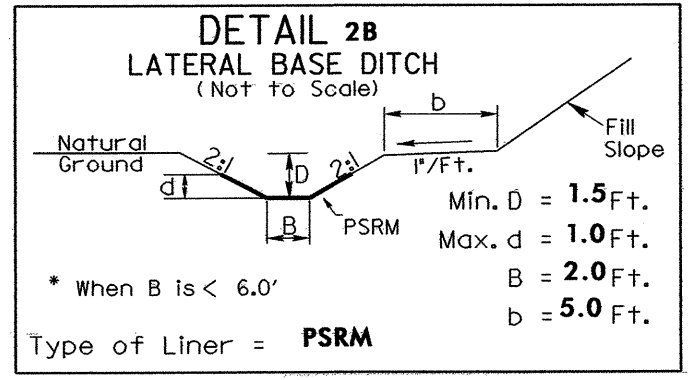
Modified Silt Basin Type 'B'
31 x 10 x 3
8 ft. weir
(See Tiered Skimmer Basin Detail)



PROJECT REFERENCE NO.	SHEET NO.
R-3415	EC-47/CONST.22
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



FROM STA. 255+50 TO 256+50 -L- RT
 STA. 257+50 TO 258+50 -L- RT
 STA. 259+03 TO 264+50 -L- LT
 STA. 260+50 TO 261+50 -L- RT
 STA. 262+00 TO 264+00 -L- RT



FROM STA. 264+00 TO 264+90 -L- RT
 EST. 60 S.Y. PSRM

38 x 11 x 3

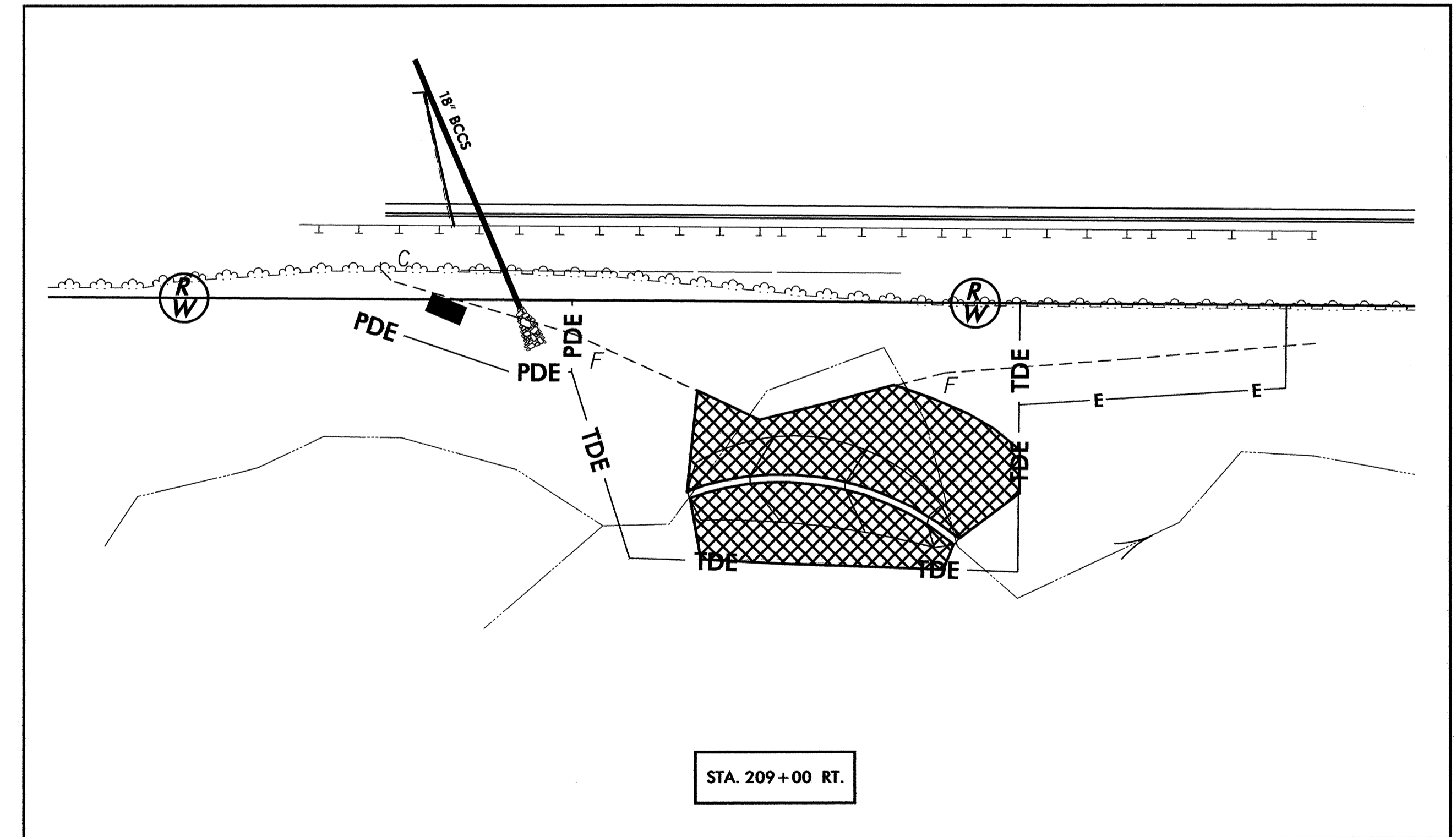
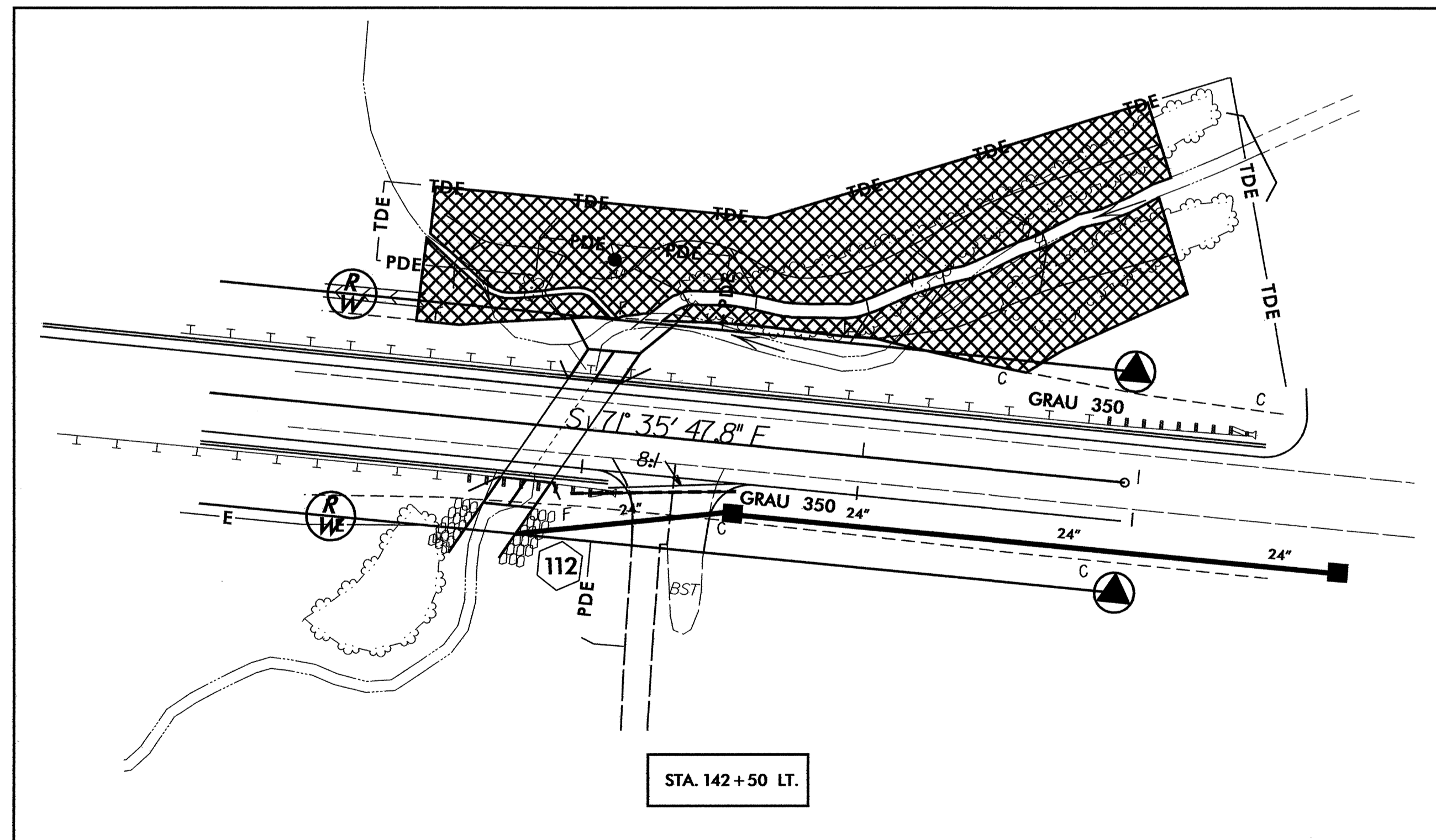
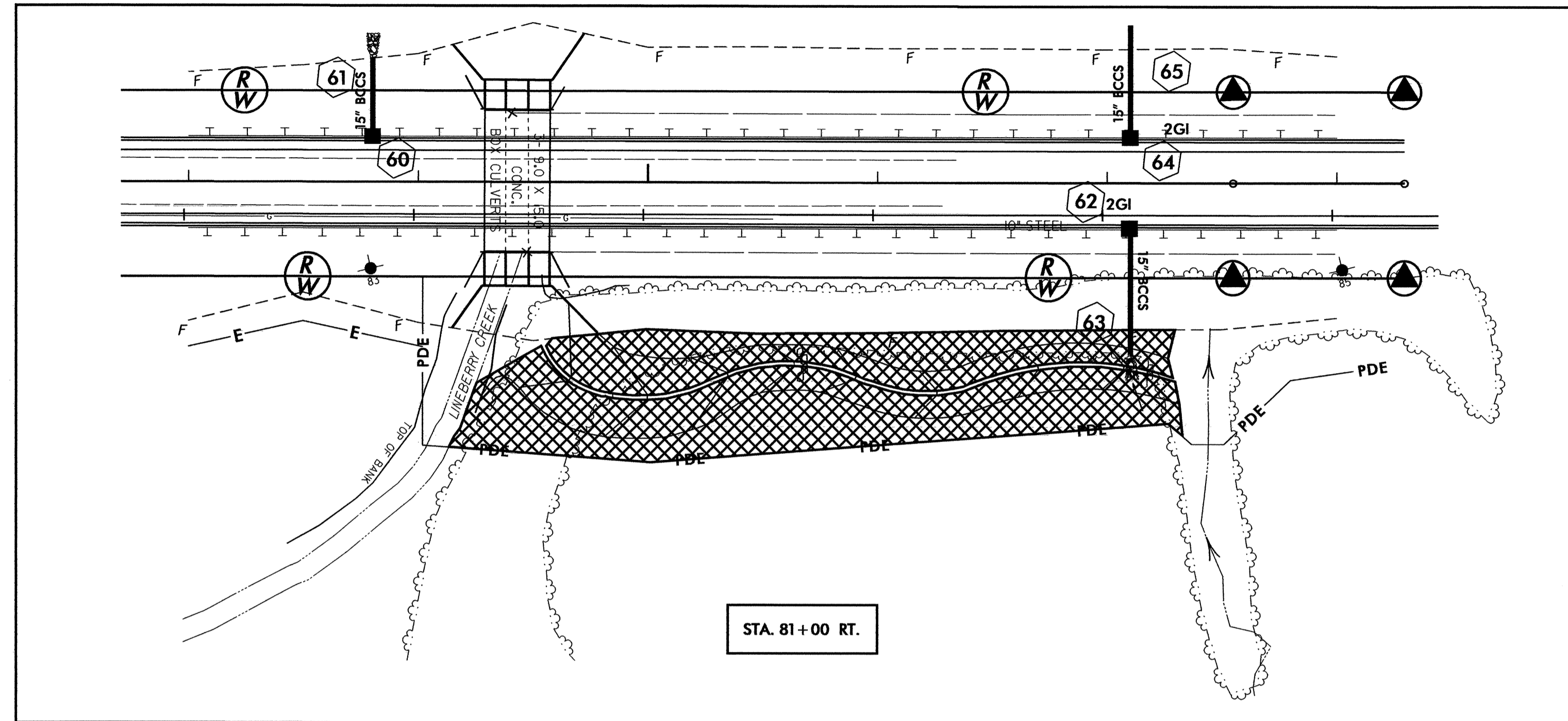
42 x 14 x 3
 5' weir

MATCH LINE SHEET 21

MATCH LINE SHEET 23

STREAMBANK REFORESTATION

PROJECT REFERENCE NO. <i>R-3415</i>	SHEET NO. <i>EC-50</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



1.23 ACRE STREAMBANK REFORESTATION
SEE RF-2 AND PROJECT SPECIAL PROVISIONS