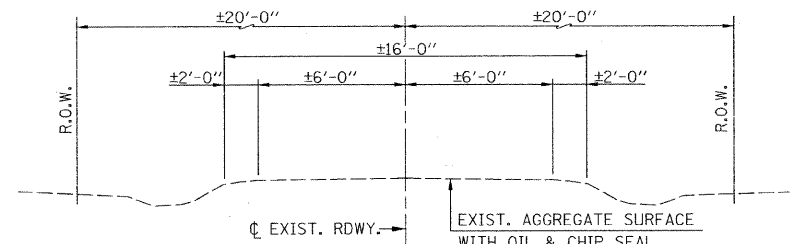


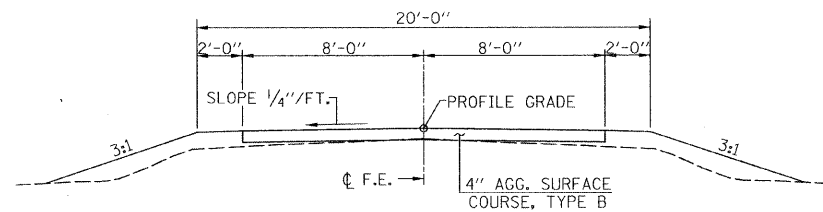
PROPOSED CROSS SECTION

••3:1 < 6'
2:1 > 6'
•••3:1 < 10'
2:1 > 10'



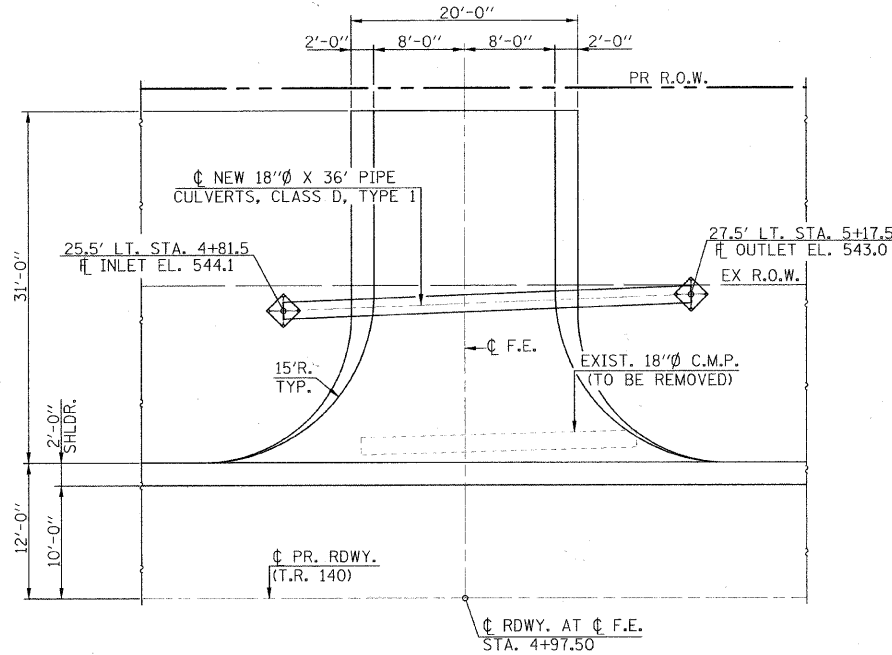
EXISTING CROSS SECTION

GENERAL NOTES
 WHERE SECTION OR SUBSECTION STONES ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH STONES ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AUTHORIZED SURVEYOR, OR AGENT HAS WITNESSED OR REFERENCED THEIR LOCATION.
 SEEDING: FERTILIZER NUTRIENTS SHALL BE APPLIED AT A RATIO OF 1:1:1 AND AT A RATE OF 90 POUNDS PER ACRE FOR EACH NUTRIENT.
 MULCH SHALL BE APPLIED AT THE RATE OF 2 TONS PER ACRE.
 AREAS TO BE SEEDED SHALL CONSIST OF ALL DISTURBED EARTH SURFACES WITHIN THE RIGHT OF WAY AND EASEMENT AS DIRECTED BY THE ENGINEER.
 BEFORE ORDERING PIPE CULVERTS CONTRACTOR SHALL CONSULT WITH ENGINEER TO VERIFY LENGTHS.



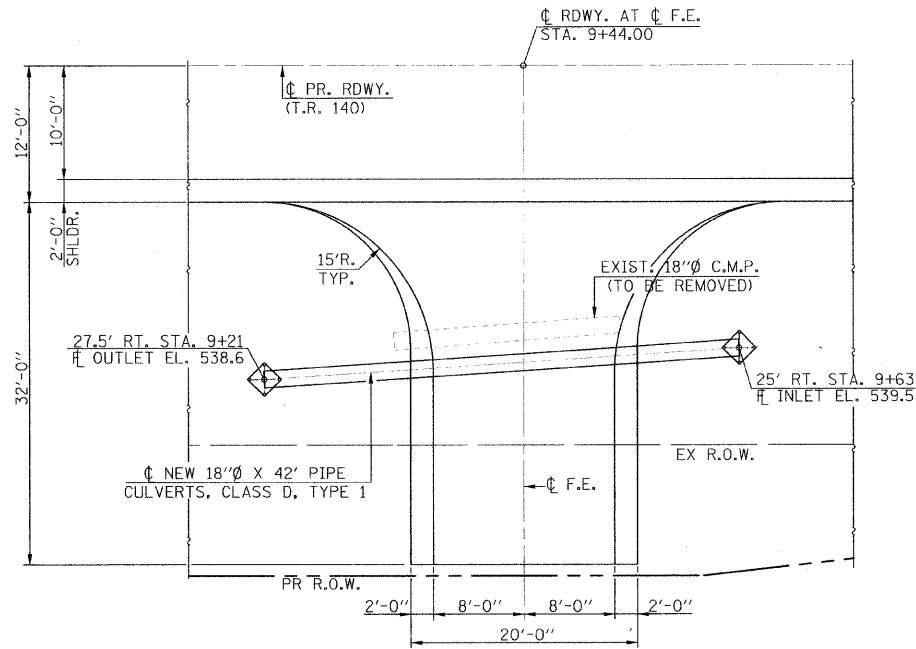
TYPICAL FIELD ENTRANCE

(F.E. STA. 4+97.50 LT.)
(F.E. STA. 9+44.00 RT.)



PLAN
SCHEDULE
STONE RIPRAP DITCH

LOCATION	STONE RIPRAP DITCH QUANTITY	
	LT. (TON)	RT. (TON)
STA. 2+75 TO STA. 3+00	10.5	10.5
STA. 3+00 TO STA. 3+50	22.5	22.5
STA. 3+50 TO STA. 4+00	22.5	22.5
STA. 4+00 TO STA. 4+50	22.5	22.5
STA. 4+50 TO STA. 5+00	22.5	22.5
STA. 5+00 TO STA. 5+25	6	17
BRIDGE OMISSION (STA. 7+35 TO STA. 8+25)		
STA. 11+00 TO STA. 11+80	36	37.5
SUB-TOTAL	142.5	150
TOTAL	293	



SCHEDULE
INLET & PIPE PROTECTION

LOCATION	QUANTITY	
	EACH	
STA. 4+81.50 25.5' LT.	1	
STA. 5+17.5 27.5' LT.	1	
STA. 9+21 27.5' RT.	1	
STA. 9+63 25' RT.	1	
TOTAL	4	

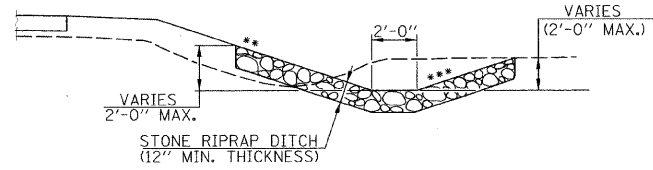
SUMMARY OF QUANTITIES

ITEM	UNIT	QUANTITY
20100500 TREE REMOVAL, ACRES	ACRE	0.3
20200100 EARTH EXCAVATION	CU. YD.	710
20300100 CHANNEL EXCAVATION	CU. YD.	605
20400800 FURNISHED EXCAVATION	CU. YD.	2100
25000200 SEEDING, CLASS 2	ACRE	1.0
25000400 NITROGEN FERTILIZER NUTRIENT	POUND	90
25000500 PHOSPHORUS FERTILIZER NUTRIENT	POUND	90
25000600 POTASSIUM FERTILIZER NUTRIENT	POUND	90
25100115 MULCH, METHOD 2	ACRE	1.0
28000250 TEMPORARY EROSION CONTROL SEEDING	POUND	100
28000305 TEMPORARY DITCH CHECKS	FOOT	64
28000400 PERIMETER EROSION BARRIER	FOOT	1641
28000500 INLET AND PIPE PROTECTION	EACH	4
28100207 STONE RIPRAP, CLASS A4	TON	499
28102600 STONE RIPRAP DITCH	TON	293
28200200 FILTER FABRIC	SQ. YD.	671
40200800 AGGREGATE SURFACE COURSE, TYPE B	TON	870
50100100 REMOVAL OF EXISTING STRUCTURES	EACH	1
50200100 STRUCTURE EXCAVATION	CU. YD.	67
50300225 CONCRETE STRUCTURES	CU. YD.	88.3
50300280 CONCRETE ENCASEMENT	CU. YD.	2.8
50400305 PRECAST PRESTRESSED CONCRETE DECK BEAMS (17" DEPTH)	SQ. FT.	2122
50800105 REINFORCEMENT BARS	POUND	8260
50900205 STEEL RAILING, TYPE S1	FOOT	180
51201400 FURNISHING STEEL PILES HP 10X42	FOOT	699
51202305 DRIVING PILES	FOOT	699
51203400 TEST PILE STEEL HP 10X42	EACH	4
51500100 NAME PLATES	EACH	1
54200223 PIPE CULVERTS, CLASS-D, TYPE 1 18"	FOOT	78
67100100 MOBILIZATION	L. SUM	1
78201000 TERMINAL MARKER - DIRECT APPLIED	EACH	4
X5020501 UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 1	EACH	1
X5020502 UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 2	EACH	1

EARTHWORK SCHEDULE

LOCATION	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	CU. YD.	CU. YD.	CU. YD.	CU. YD.
STA. 2+75 TO STA. 3+00	39	29	0	29
STA. 3+00 TO STA. 3+50	178	133	5	128
STA. 3+50 TO STA. 4+00	180	135	31	104
STA. 4+00 TO STA. 4+50	111	83	86	-3
STA. 4+50 TO STA. 5+00	36	27	183	-123
STA. 5+00 TO STA. 5+50	13	10	225	-215
STA. 5+50 TO STA. 6+00	13	10	310	-300
STA. 6+00 TO STA. 6+50	9	7	363	-356
STA. 6+50 TO STA. 7+00	9	7	371	-364
STA. 7+00 TO STA. 7+35	6	4	257	-253
BRIDGE OMISSION - STA. 7+35 TO STA. 8+25	-	-	-	-
STA. 8+25 TO STA. 8+50	23	17	158	-141
STA. 8+50 TO STA. 9+00	32	24	312	-288
STA. 9+00 TO STA. 9+50	12	9	333	-324
STA. 9+50 TO STA. 10+00	7	5	195	-190
STA. 10+00 TO STA. 10+50	10	8	93	-85
STA. 10+50 TO STA. 11+00	9	7	33	-26
STA. 11+00 TO STA. 11+50	16	12	10	2
STA. 11+50 TO STA. 11+80	7	5	2	3
TOTAL	710	532	2967	-2100***

*** QUANTITY HAS BEEN REDUCED BY 335 CU. YD. (50% OF CHANNEL EXCAVATION AND STRUCTURE EXCAVATION)



STONE RIPRAP DITCH DETAIL
(SEE SPECIAL PROVISIONS)