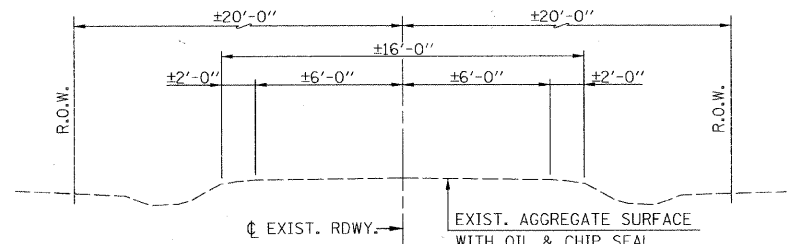


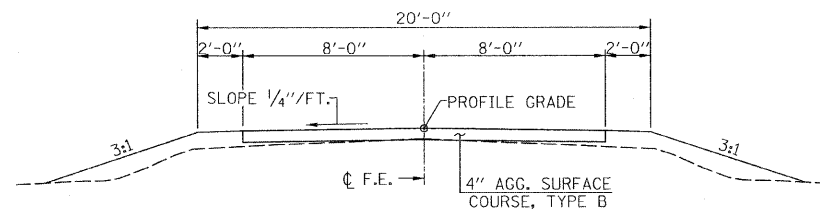
PROPOSED CROSS SECTION

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



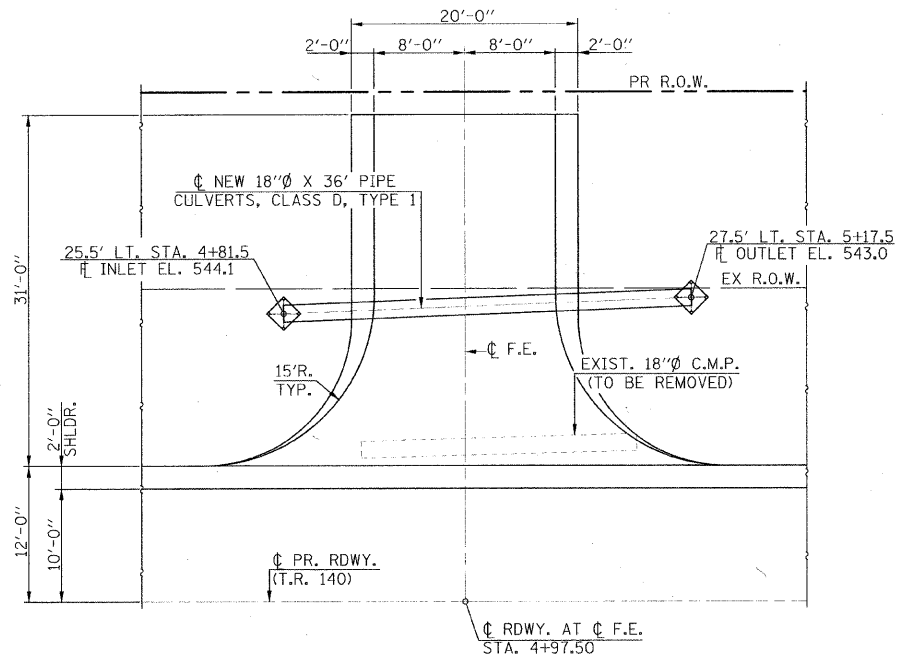
EXISTING CROSS SECTION

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 SEEDING 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

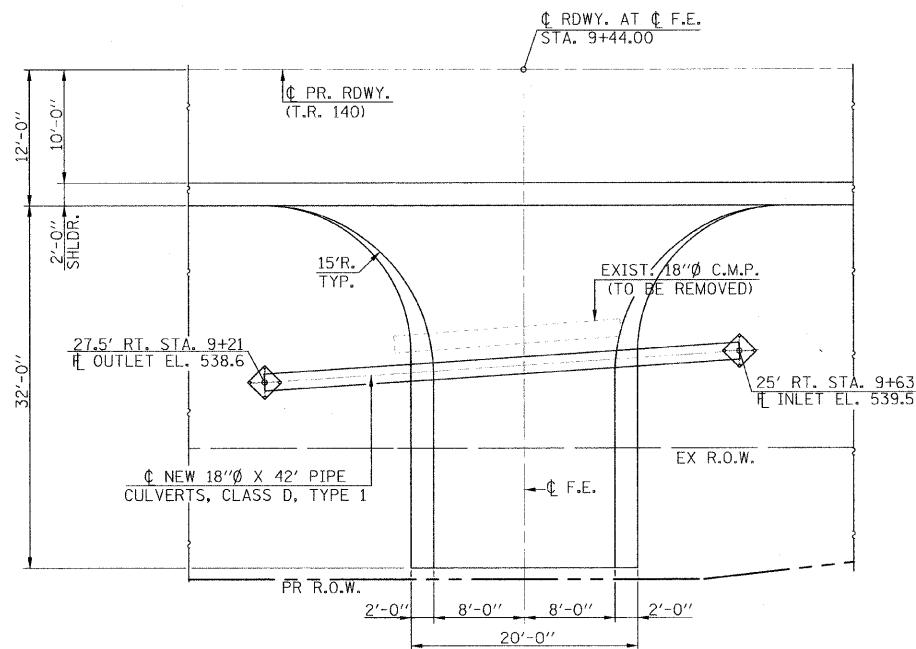
(F.E. STA. 4+97.50 LT.)
(F.E. STA. 9+44.00 RT.)



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 | |



PLAN

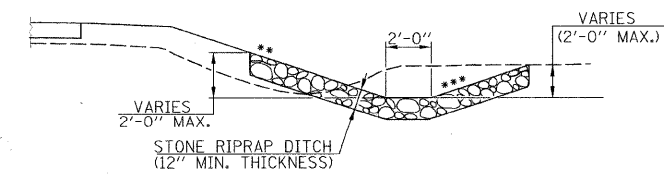
**SCHEDULE
INLET & PIPE PROTECTION**

| 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 | |

| LOCATION | EARTHWORK SCHEDULE | | | |
|--|--------------------|---|-------------|---|
| | 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)