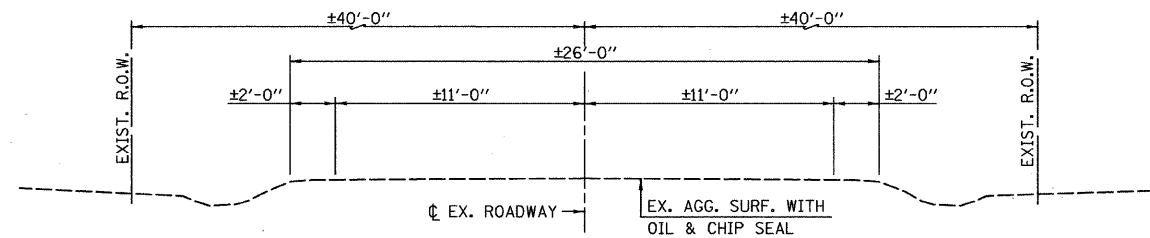


PROPOSED ROADWAY CROSS SECTION

- ** 3:1 < 10'
- 2:1 > 10' OR AT GUARDRAIL LOCATIONS
- *** 3:1 < 10'
- 2:1 > 10'



EXISTING ROADWAY CROSS SECTION

PAVEMENT DESIGN
 STRUCTURAL DESIGN TRAFFIC (S.D.T.) YEAR 2020
 P.V.=637 S.U. = 13 M.U. = 7
 CLASS III ROAD
 T.F. = 0.042
 DESIGN TEMP. = 77°
 HMA MOD. E_{ac} = 625
 8" (MIN.) AGG. BASE TYPE A
 4" HMA BINDER & SURFACE

MIXTURE REQUIREMENTS

MIXTURE USE(S)	HOT MIX ASPHALT SURFACE COURSE	HOT MIX ASPHALT BINDER COURSE
AC/PG	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0% @ N DESIGN = 50	4.0% @ N DESIGN = 50
MIXTURE COMPOSITION	IL 9.5 OR 12.5	IL 19.0
FRICTION AGGREGATE	MIX C	N/A

SUMMARY OF QUANTITIES

ITEM	UNIT	QUANTITY
20200100	EARTH EXCAVATION	CU. YD. 443
20300100	CHANNEL EXCAVATION	CU. YD. 385
25001000	SEEDING, CLASS 2 (SPECIAL)	ACRE 0.4
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND 100
28000315	AGGREGATE DITCH CHECKS	TON 10
28100809	STONE DUMPED RIPRAP, CLASS A5	TON 763
28200200	FILTER FABRIC	SQ. YD. 855
35100100	AGGREGATE BASE COURSE, TYPE A	TON 631
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON 346
40603080	HOT MIX ASPHALT BINDER COURSE, IL-19.0 N50	TON 120
40603310	HOT MIX ASPHALT SURFACE COURSE, MIX C N50	TON 104
48101200	AGGREGATE SHOULDERS, TYPE B	TON 138
50100100	REMOVAL OF EXISTING STRUCTURES	EACH 1
50200100	STRUCTURE EXCAVATION	CU. YD. 179
50300225	CONCRETE STRUCTURES	CU. YD. 125.2
50400305	PRECAST PRESTRESSED CONCRETE DECK BEAMS (17" DEPTH)	SQ. FT. 2803
50800105	REINFORCEMENT BARS	POUND 11500
50900205	STEEL RAILING, TYPE S-1	FOOT 190
51200957	FURNISHING METAL SHELL PILES 12" X 0.250"	FOOT 897
51202305	DRIVING PILES	FOOT 897
51203200	TEST PILE METAL SHELLS	EACH 4
51500100	NAME PLATES	EACH 1
54200223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT 26
58100200	WATERPROOFING MEMBRANE SYSTEM	SQ. YD. 317
58300100	PORTLAND CEMENT MORTAR FAIRING COURSE	FOOT 210
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU. YD. 20.2
63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH 2
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL (TANGENT)	EACH 2
67100100	MOBILIZATION	L. SUM 1
70101700	TRAFFIC CONTROL AND PROTECTION	L. SUM 1
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT 120
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

* SEE SPECIAL PROVISIONS
 Δ SPECIALTY ITEMS
 CONSTRUCTION TYPE CODE: X080-2A

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 SEEDDED SHALL CONSIST OF ALL DISTURBED EARTH SURFACES WITHIN THE RIGHT OF WAY AS DIRECTED BY THE ENGINEER.
 NO COMMITMENTS.

BITUMINOUS MATERIALS (PRIME COAT) 0.10 GAL/SQ.YD. (ON PAVEMENT)
 BITUMINOUS MATERIALS (PRIME COAT) 0.375 GAL/SQ.YD. (ON AGG)
 HOT MIX ASPHALT SURFACE / BINDER 0.056 TON/SQ. YD. PER 1"
 AGGREGATE MATERIAL 2.05 TON/CU. YD.
 RIPRAP 1.5 TON/CU. YD.
 NITROGEN FERTILIZER NUTRIENT 90 LBS./ACRE
 PHOSPHOROUS FERTILIZER NUTRIENT 90 LBS./ACRE
 POTASSIUM FERTILIZER NUTRIENT 90 LBS./ACRE
 AGGREGATE PRIME COAT 0.002 TON/SQ. YD.
 AGRICULTURAL GROUND LIMESTONE 2.0 TON/ACRE