

SUMMARY OF QUANTITIES

CONSTRUCTION TYPE CODE: X080-2A

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 16 F.A.S. 365	06-00084 -00-BR	MARSHALL	15	2
ROAD DIST.	ILLINOIS	FED. AID PROJ.		

CONTRACT NO. 89409

NUMBER	ITEM	UNIT	QUANTITY
20200100	EARTH EXCAVATION	CU YD	60
20300100	CHANNEL EXCAVATION	CU YD	300
* 25001000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.3
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	33
28000400	PERIMETER EROSION BARRIER	FOOT	400
28100807	STONE DUMPED RIPRAP, CLASS A4	TON	60
* 28101700	RIPRAP, SPECIAL	TON	214
35101400	AGGREGATE BASE COURSE, TYPE B	TON	395
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	5
* 40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	176
44000100	PAVEMENT REMOVAL	SQ YD	516
48101200	AGGREGATE SHOULDERS, TYPE B	TON	54
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
* 50104900	REMOVAL OF EXISTING SUB-STRUCTURES (NO. 1 & NO. 2)	EACH	2
50300225	CONCRETE STRUCTURES	CU YD	41.1
* 50400305	PRECAST PRESTRESSED CONCRETE DECK BEAMS (17" DEPTH)	SQ FT	2,660
50800105	REINFORCEMENT BARS	POUND	4,520
50900205	STEEL RAILING, TYPE S1	FOOT	191
51201400	FURNISHING STEEL PILES HP10X42	FOOT	456
51202700	DRIVING STEEL PILES	FOOT	456
51203400	TEST PILE STEEL HP10X42	EACH	2
51204315	CONCRETE ENCASEMENT	CU YD	29.0
51500100	NAME PLATES	EACH	1
58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	296
58300100	PORTLAND CEMENT MORTAR FAIRING COURSE	FOOT	285
63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	2
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL (TANGENT)	EACH	2
* 63200310	GUARDRAIL REMOVAL	FOOT	524
67100100	MOBILIZATION	L SUM	1
* 70101830	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1
78201000	TERMINAL MARKER-DIRECT APPLIED	EACH	4
X4066414	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50	TON	76
X4066614	BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N50	TON	65
* X5020501	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 1	EACH	1
* X5020502	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 2	EACH	1

*SEE SPECIAL PROVISIONS

GENERAL NOTES

WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER, AND AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.

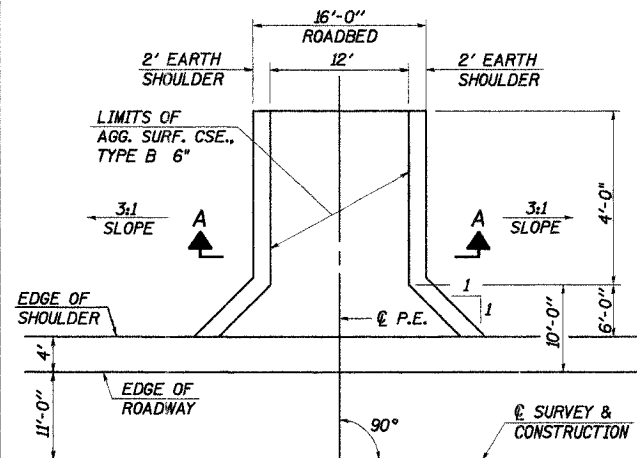
THE AREA TO BE SEEDDED SHALL CONSIST OF ALL DISTURBED EARTH SURFACES WITHIN THE RIGHT OF WAY, AS DIRECTED BY THE ENGINEER.

SEEDING, CLASS 2 (SPECIAL) = 0.3 ACRE

TEMPORARY EROSION CONTROL

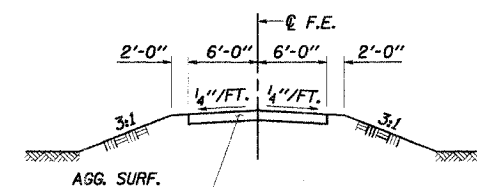
THE FOLLOWING QUANTITIES ARE ESTIMATES ONLY. ACTUAL QUANTITIES FOR EROSION CONTROL WILL BE DETERMINED BY THE ENGINEER IN THE FIELD AND THERE WILL BE NO ADJUSTMENT IN ANY UNIT PRICE DUE TO A CHANGE IN PLAN QUANTITY.

PERIMETER EROSION BARRIER = 400 FOOT
TEMPORARY EROSION CONTROL SEEDING = 33 POUND



PRIVATE ENTRANCE DETAIL

P.E. L.T. STA. 124+67



SECTION A-A

BITUMINOUS MIXTURE REQUIREMENTS

MIXTURE USE(S)	SURFACE COURSE/ INCIDENTAL BITUMINOUS SURFACING	BINDER COURSE
AC/PG:	64-22	64-22
RAP % (MAX)	15%	25%
DESIGN AIR VOIDS:	4.0% @ $N_{des} = 50$	4.0% @ $N_{des} = 50$
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL 9.5	IL 19.0
FRICTION AGGREGATE:	MIXTURE C	N/A

PAVEMENT DESIGN

Structural Design Traffic (S.D.T.) : Year 2016; P.V. = 699, S.U. = 18, M.U. = 18
Class III Road

Minimum Soil Support: $E_{R1} = 3$ k.s.i.

Percent of S.D.T. in Design Lane: P = 50%, S = 50%, M = 50%
T.F. = 0.073

Temp. = 75° F.; $E_{AC} = 575$ (AC-10); Design Strain = 325

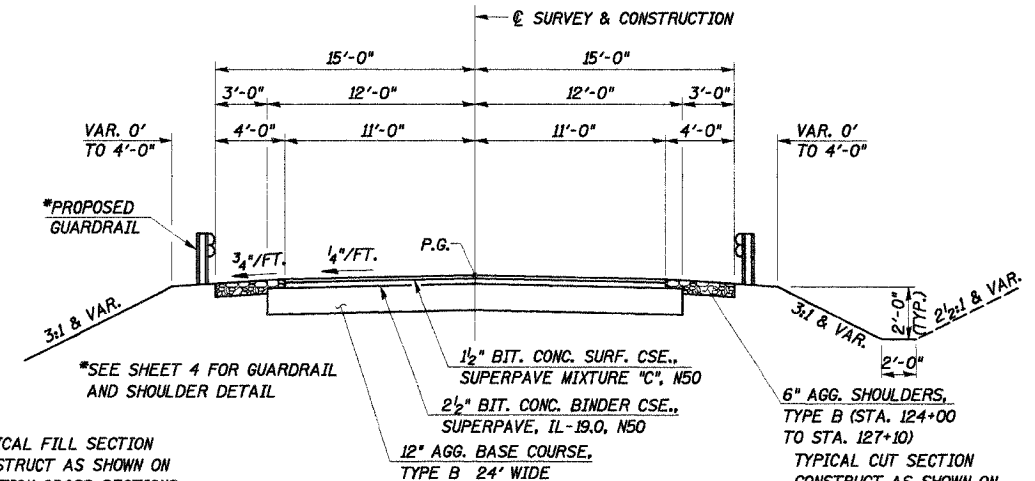
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FEHR-GRAHAM & ASSOCIATES, LLC
ENGINEERING AND SCIENCE CONSULTANTS

DRAWN: S.A.P.
DATE: 02/14/06

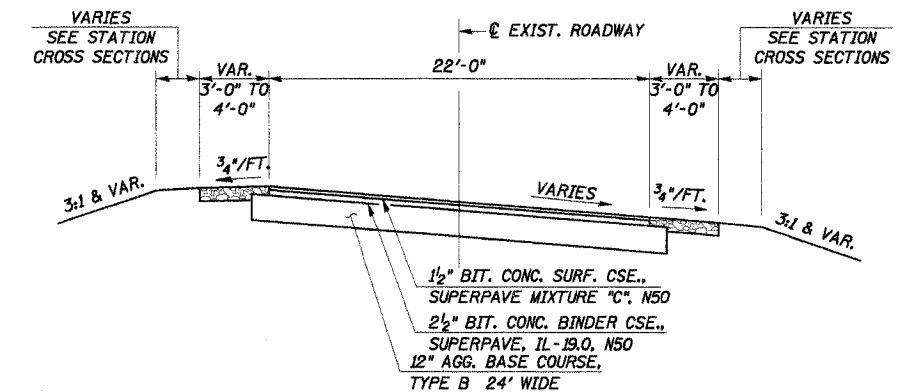
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DATE: 03/27/06

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FILE: 0423SUMTYP.DGN
DATE: 04/11/06



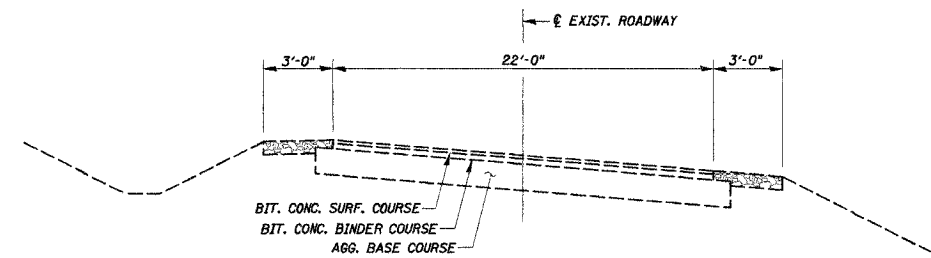
PROPOSED TYPICAL CROSS SECTION

STA. 124+25 TO STA. 125+07.42
STA. 126+02.58 TO STA. 126+59

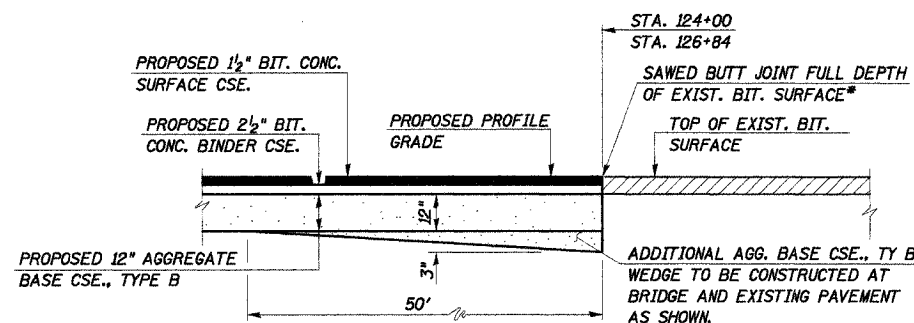


PROPOSED TYPICAL CROSS SECTION

STA. 124+00 TO STA. 124+25
STA. 126+59 TO STA. 126+84



EXISTING TYPICAL CROSS SECTION



ELEVATION AT BEGINNING AND END OF IMPROVEMENT

JOINT DETAILS

*COST INCLUDED IN "PAVEMENT REMOVAL".

PAVEMENT REMOVAL

STA. 124+00 TO STA. 125+18.50 = 290 SQ YD
STA. 125+91.50 TO STA. 126+84 = 226
TOTAL = 516 SQ YD

SUMMARY OF QUANTITIES, GENERAL NOTES AND DETAILS

SECTION 06-00084-00-BR
MARSHALL COUNTY
COUNTY HIGHWAY 16
STATION 125+55