

SUMMARY OF QUANTITIES

CONSTRUCTION TYPE CODE: X020-2A

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 62 C.H. 13	04-00164 -00-BR	STEPHENSON	15	2
ROAD DIST.	ILLINOIS	EAST PLUM RIVER		

CONTRACT NO. 85419

NUMBER	ITEM	UNIT	QUANTITY
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	28
20200100	EARTH EXCAVATION	CU YD	118
20300100	CHANNEL EXCAVATION	CU YD	620
20700110	POROUS GRANULAR EMBANKMENT	TON	70
25001000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.5
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	75
28000400	PERIMETER EROSION BARRIER	FOOT	834
28100207	STONE RIPRAP, CLASS A4	TON	232
28200200	FILTER FABRIC	SQ YD	336
35101400	AGGREGATE BASE COURSE, TYPE B	TON	753
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	779
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	255
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	141
44000100	PAVEMENT REMOVAL	SQ YD	1,140
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	40
48101200	AGGREGATE SHOULDERS, TYPE B	TON	102
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50200100	STRUCTURE EXCAVATION	CU YD	64
50300225	CONCRETE STRUCTURES	CU YD	72.5
50300255	CONCRETE SUPERSTRUCTURE	CU YD	114.9
50300260	BRIDGE DECK GROOVING	SQ YD	243
50300300	PROTECTIVE COAT	SQ YD	293
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	34,380
50900205	STEEL RAILING, TYPE S1	FOOT	156
51201600	FURNISHING STEEL PILES HP12X53	FOOT	476
51202305	DRIVING PILES	FOOT	476
51203600	TEST PILE STEEL HP12X53	EACH	2
51500100	NAME PLATES	EACH	1
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	25
63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	2
63200305	STEEL PLATE BEAM GUARDRAIL REMOVAL	FOOT	206
63200307	STEEL PLATE BEAM GUARDRAIL REMOVAL ATTACHED TO STRUCTURE	FOOT	66
67100100	MOBILIZATION	L SUM	1
70101700	TRAFFIC CONTROL AND PROTECTION	L SUM	1
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1,330
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
LR631020	TRAFFIC BARRIER TERMINAL, TYPE 1	EACH	2
X5020501	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 1	EACH	1
X5020502	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 2	EACH	1

*SEE SPECIAL PROVISIONS
 Δ SPECIALTY ITEMS

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) = 0.5 ACRE

TREES THAT INTERFERE WITH THE CONSTRUCTION WITHIN THE LIMITS OF THE R.O.W. LINES SHALL BE REMOVED ONLY AS DIRECTED BY THE ENGINEER.

TREE REMOVAL (6 TO 15 UNITS DIAMETER)

35.6' LT. STA. 192+67 = 6 UNITS
 39.6' LT. STA. 192+69 = 11 UNITS
 35.6' LT. STA. 192+71 = 11 UNITS
 TOTAL = 28 UNITS

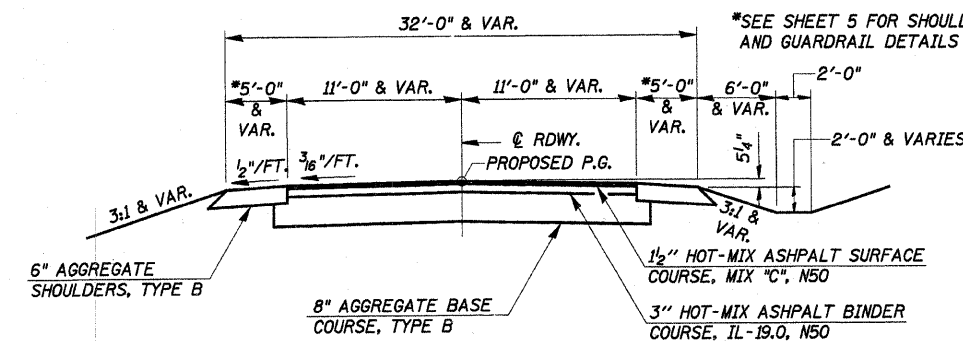
PAVEMENT DESIGN (80,000 LBS.)

Structural Design Traffic (S.D.T.): Year 2018; P.V. = 431, S.U. = 34, M.U. = 25
 Class III Road

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

Percent of S.D.T. In Design Lane: P = 50%, S = 50%, M = 50%
 T.F. = 0.134

Temp. = 72° F.; $E_{AC} = 650$ (AC-10); Design Strain = 265



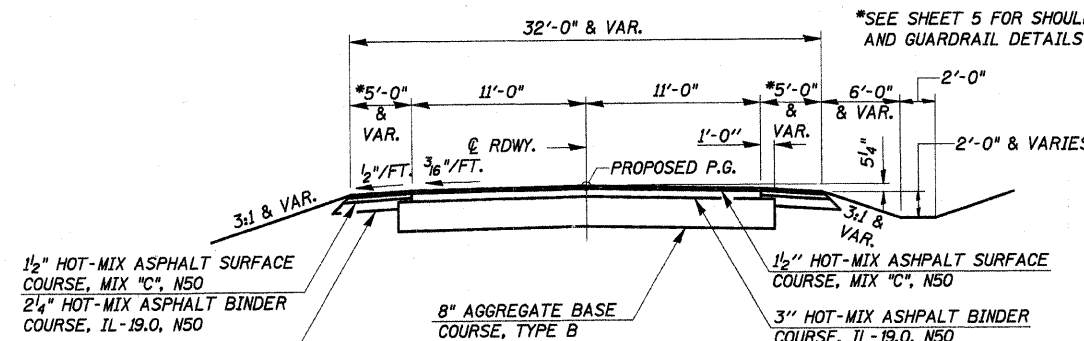
SUGGESTED FILL SECTION
 CONSTRUCT AS SHOWN BY
 STATION CROSS SECTIONS

TYPICAL PROPOSED CROSS SECTION

STA. 189+50.00 TO STA. 190+68.57 AND
 STA. 193+29.00 TO STA. 193+75.00

SUGGESTED CUT SECTION
 CONSTRUCT AS SHOWN BY
 STATION CROSS SECTIONS

TRANSITION FROM EXISTING ROADWAY TO PROPOSED ROADWAY
 TO BE CONSTRUCTED FROM STA. 189+00 TO STA. 189+50 AND FROM
 STA. 193+75 TO 194+25

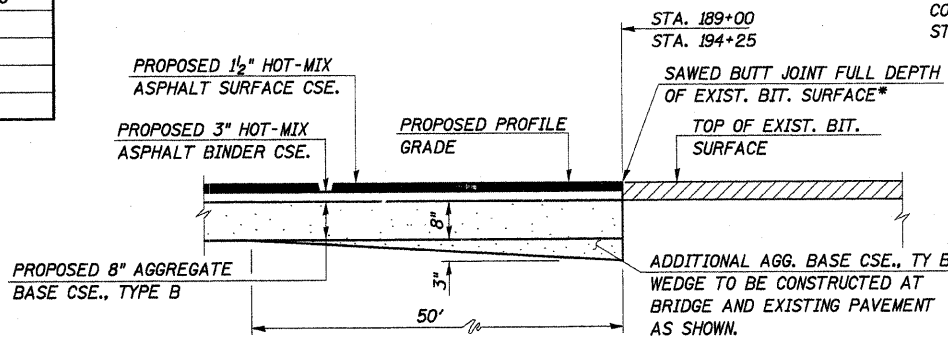


SUGGESTED FILL SECTION
 CONSTRUCT AS SHOWN BY
 STATION CROSS SECTIONS

TYPICAL PROPOSED CROSS SECTION

STA. 190+68.57 TO STA. 191+54 AND
 STA. 192+32.00 TO STA. 193+29.00

SUGGESTED CUT SECTION
 CONSTRUCT AS SHOWN BY
 STATION CROSS SECTIONS



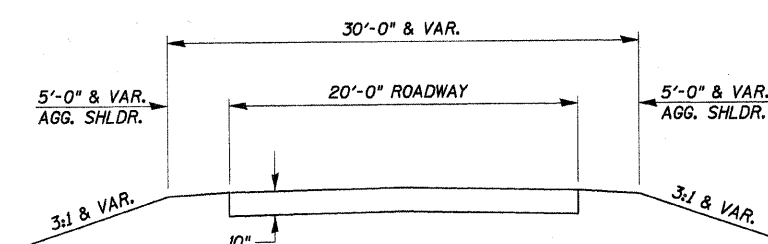
ELEVATION AT BEGINNING AND END OF IMPROVEMENT

JOINT DETAILS

*COST INCLUDED IN "PAVEMENT REMOVAL".

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE USE(S)	SURFACE COURSE	BINDER COURSE
AC/PG:	64-22	64-22
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



EXISTING TYPICAL CROSS SECTION

**SUMMARY OF QUANTITIES, GENERAL NOTES
 AND TYPICAL CROSS SECTION**
 COUNTY HIGHWAY 13
 SECTION 04-00164-00-BR
 STEPHENSON COUNTY
 STA. 191+93

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 SPRINGFIELD, IL 62711
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FEHR-GRAHAM & ASSOCIATES, LLC
 ENGINEERING AND SCIENCE CONSULTANTS
 PREPARED BY: ROBERT L. ROBERTS, P.E. (REGISTERED PROFESSIONAL ENGINEER)

DRAWN: S.A.P.
 DATE: 05/16/07

CHECKED: G.J.C.
 DATE: 05/31/07

JOB NO.: 47188
 FILE: SUMTYP.DGN
 DATE: 12/08/09