SUMMARY OF QUANTITIES

NUMBER ITEM UNIT 20200100 EARTH EXCAVATION CU Y. 20300100 CHANNEL EXCAVATION CU Y. 20700220 POROUS GRANULAR EMBANKMENT CU Y. * 25001000 SEEDING, CLASS 2 (SPECIAL) ACR. * 25100630 EROSION CONTROL BLANKET SQ Y. 28000250 TEMPORARY EROSION CONTROL SEEDING POUN. 28000400 PERIMETER EROSION BARRIER FOOT. * 28100207 STONE RIPRAP, CLASS A4 TON. 28200200 FILTER FABRIC SQ Y. * 35101400 AGGREGATE BASE COURSE, TYPE B TON. 40600100 BITUMINOUS MATERIALS (PRIME COAT) GALLO 40603080 HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 TON. 40603305 HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N30 TON.	X020-2A
20300100 CHANNEL EXCAVATION CU Y. 20700220 POROUS GRANULAR EMBANKMENT CU Y. * 25001000 SEEDING, CLASS 2 (SPECIAL) ACR. * 25100630 EROSION CONTROL BLANKET SQ Y. 28000250 TEMPORARY EROSION CONTROL SEEDING POUN. 28000400 PERIMETER EROSION BARRIER FOOT. * 28100207 STONE RIPRAP, CLASS A4 TON. 28200200 FILTER FABRIC SQ Y. * 35101400 AGGREGATE BASE COURSE, TYPE B TON. 40600100 BITUMINOUS MATERIALS (PRIME COAT) GALLO 40603080 HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 TON.	QUANTITY
20700220 POROUS GRANULAR EMBANKMENT CU Y ** 25001000 SEEDING, CLASS 2 (SPECIAL) ACRI ** 25100630 EROSION CONTROL BLANKET SQ Y 28000250 TEMPORARY EROSION CONTROL SEEDING POUN 28000400 PERIMETER EROSION BARRIER FOOT * 28100207 STONE RIPRAP, CLASS A4 TON 28200200 FILTER FABRIC SQ Y * 35101400 AGGREGATE BASE COURSE, TYPE B TON 40600100 BITUMINOUS MATERIALS (PRIME COAT) GALLO 40603080 HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 TON	D 22
* 25001000 SEEDING, CLASS 2 (SPECIAL) * 25100630 EROSION CONTROL BLANKET 28000250 TEMPORARY EROSION CONTROL SEEDING 28000400 PERIMETER EROSION BARRIER * 28100207 STONE RIPRAP, CLASS A4 28200200 FILTER FABRIC * 35101400 AGGREGATE BASE COURSE, TYPE B 40600100 BITUMINOUS MATERIALS (PRIME COAT) 40603080 HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	D 122
** 25100630 EROSION CONTROL BLANKET SQ Y 28000250 TEMPORARY EROSION CONTROL SEEDING POUN 28000400 PERIMETER EROSION BARRIER FOOT ** 28100207 STONE RIPRAP, CLASS A4 TON 28200200 FILTER FABRIC SQ Y ** 35101400 AGGREGATE BASE COURSE, TYPE B TON 40600100 BITUMINOUS MATERIALS (PRIME COAT) GALLO 40603080 HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 TON	D 32
28000250 TEMPORARY EROSION CONTROL SEEDING POUN 28000400 PERIMETER EROSION BARRIER FOOT * 28100207 STONE RIPRAP, CLASS A4 TON 28200200 FILTER FABRIC SQ Y * 35101400 AGGREGATE BASE COURSE, TYPE B TON 40600100 BITUMINOUS MATERIALS (PRIME COAT) GALLO 40603080 HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 TON	E 0.05
28000400 PERIMETER EROSION BARRIER FOOD * 28100207 STONE RIPRAP, CLASS A4 TON 28200200 FILTER FABRIC SQ Y * 35101400 AGGREGATE BASE COURSE, TYPE B TON 40600100 BITUMINOUS MATERIALS (PRIME COAT) GALLO 40603080 HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 TON	D 242
* 28100207 STONE RIPRAP, CLASS A4 28200200 FILTER FABRIC * 35101400 AGGREGATE BASE COURSE, TYPE B 40600100 BITUMINOUS MATERIALS (PRIME COAT) 40603080 HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 TON	D 10
28200200 FILTER FABRIC SQ Y ** 35101400 AGGREGATE BASE COURSE, TYPE B TON 40600100 BITUMINOUS MATERIALS (PRIME COAT) GALLO 40603080 HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 TON	350
* 35101400 AGGREGATE BASE COURSE, TYPE B TON 40600100 BITUMINOUS MATERIALS (PRIME COAT) GALLO 40603080 HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 TON	574
40600100 BITUMINOUS MATERIALS (PRIME COAT) GALLO 40603080 HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 TON	D 591
40603080 HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 TON	238
	ON 87
40603305 HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N30 TON	39
	19
44000100 PAVEMENT REMOVAL SQ Y	D 224
48203013 HOT-MIX ASPHALT SHOULDERS, 4" SQ Y	D 110
* 50100200 REMOVAL OF EXISTING STRUCTURES L SU	M 1
50J02400 CONCRETE REMOVAL CU Y	0 37
50200100 STRUCTURE EXCAVATION CU Y	202
50300225 CONCRETE STRUCTURES CU Y	D 89.4
50300255 CONCRETE SUPERSTRUCTURE CU Y	D 215.0
50300260 BRIDGE DECK GROOVING SQ Y	D 298
50300280 CONCRETE ENCASEMENT CU Y	D 29.4
50300300 PROTECTIVE COAT SQ Y	D 418
50800205 REINFORCEMENT BARS, EPOXY COATED POUN	D 42,470
Δ 50901050 STEEL RAILING, TYPE SM F007	204
51201600 FURNISHING STEEL PILES HP12X53 F007	450
51202305 DRIVING PILES FOOT	450
51203600 TEST PILE STEEL HP12X53 EACH	H 1
51500100 NAME PLATES EACH	H 1
52000110 PREFORMED JOINT STRIP SEAL FOOT	70
52100010 ELASTOMERIC BEARING ASSEMBLY, TYPE I EACH	4 12
59100100 GEOCOMPOSITE WALL DRAIN SQ Y	D 17
59300100 CONTROLLED LOW-STRENGTH MATERIAL CU Y	D 148
△ 63000000 STEEL PLATE BEAM GUARDRAIL, TYPE A FOOT	212.5
∆ 63100087 TRAFFIC BARRIER TERMINAL, TYPE 6A EACH	4 4
63200310 GUARDRAIL REMOVAL FOOT	402
67100100 MOBILIZATION L SU	M 1
* 70101830 TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21 L SU	M 1
△ 78001110 PAINT PAVEMENT MARKING - LINE 4" FOOT	800
* X0325305 STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES) SQ F	
* X5020501 UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 1 EACH	
* X5020502 UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 2 EACH	1 1
* X5121800 PERMANENT STEEL SHEET PILING SQ F	T 1963

*SEE SPECIAL PROVISIONS

A SPECIALTY ITEMS

GENERAL NOTES

CONSTRUCTION

TYPE CODE

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

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

SEEDING, CLASS 2 (SPECIAL) = 0.05 ACRE

HOT-MIX ASPHALT MIXTURE REQUIREMENTS			
	HMA BINDER	HMA SURFACE	HMA SURFACE
PG GRADE	PG64-22	PG58-22	PG58-22
MAX % RAP ALLOWABLE**	25%	30%	50%
DESIGN AIR VOIDS	4.0% o N50	2.0% o N30	2.0% o N30
MIXTURE COMPOSTION	IL 19.0	IL 12.5 OR IL 9.5	IL 19.0
FRICTION AGGREGATE		MIXTURE C	
DENSITY TEST METHOD	NUCLEAR/ CORES	NUCLEAR/ CORES	NUCLEAR/ CORES

*MATERIAL SHALL BE COMPACTED TO 93.0-97.4 PERCENT OF THE MAXIMUM THEORETICAL DENSITY, EXCEPT THAT WHEN PLACED AS FIRST LIFT ON AN UNIMPROVED SUBGRADE THE MINIMUM PERCENT COMPACTION SHALL BE 92.0 PERCENT. THE MAXIMUM THEORETICAL DENSITY SHALL BE DETERMINED FROM THE MOVING AVERAGE AS SPECIFIED IN THE QC/QA SPECIFICATION.

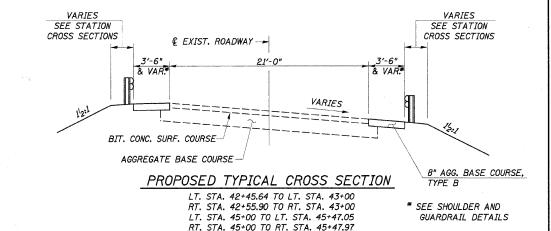
**WHEN MORE THAN 15% RAP IS USED, A SOFTER ASHPALT BINDER (PG58-22) MAY BE REQUIRED AS DETERMINED BY THE ENGINEER.

TEMPORARY EROSION CONTROL

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

TEMPORARY EROSION CONTROL SEEDINGS = 10 POUND PERIMETER EROSION BARRIER = 350 FOOT

WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED. THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REFERENCED THEIR LOCATION.



ROUTE NO. SECTION

06-00002 -01-BR

COUNTY

DEKALB

ILLINOIS

20

CONTRACT NO. 87366

VARIES € EXIST. ROADWAY --SEE STATION SEE STATION CROSS SECTIONS CROSS SECTIONS 3'-6" TO 5'-3" 5'-3' PROPOSED P.G. -(2) (I)-VAR. VARIES VAR. HOT-MIX ASPHALT SHOULDERS, 4" 1/2" H.M.A. SURF. CSE., MIXTURE "C", N30 4" AGG. BASE COURSE, 3" H.M.A. BINDER CSE., * SEE SHOULDER AND TYPE B GUARDRAIL DETAILS IL-19.0, N50

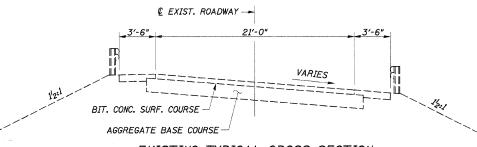
① SOLID WHITE PAINT PAVEMENT MARKING - LINE 4" 2 SOLID YELLOW PAINT PAVEMENT MARKING - LINE 4"

PROPOSED TYPICAL CROSS SECTION

12" AGG. BASE COURSE,

TYPE B 24' WIDE

STA. 43+00 TO STA. 45+00 TRANSITION FROM EXISTING S.E. STA. 43+00 TO S.E. 0.035 '/' AT STRUCTURE AND FROM S.E. 0.035'/' AT STRUCTURE TO EXISTING S.E. STA. 45+00



EXISTING TYPICAL CROSS SECTION

PAVEMENT DESIGN

STRUCTURAL DESIGN TRAFFIC (S.D.T.) : YEAR 2018; P.V. = 2905, S.U. = 30, M.U. = 30

CLASS II ROAD

MINNIMUM SOIL SUPPORT: I.B.R. = 3.0 (ASSUMED) (> 3 k.s.l.)

PERCENT OF S.D.T. IN DESIGN LANE: P = 50%, S = 50%, M = 50% T.F. = 0.1535

TEMP.=73.5° F.; EAC= 620; DESIGN STRAIN = 253

APPLICATION RATES USED IN QUANTITY CALCULATIONS

STONE RIPRAP, CLASS A4 1.65 TON/CU YD AGGREGATE BASE COURSE 2.05 TON/CU YD BITUMINOUS MATERIALS (PRIME COAT) 0.35 GAL/SQ YD HOT-MIX ASPHALT (BINDER & SURFACE COURSE) 112#/SQ YD/IN

THE ABOVE NOTED APPLICATION RATES FOR BITUMINOUS MATERIALS (PRIME COAT) ARE FOR QUANTITY CALCULATIONS ONLY. THE APPLICATION RATE TO BE APPLIED WILL BE DETERMINED BY THE ENGINEER AT THE TIME OF PLACEMENT.

SUMMARY OF QUANTITIES, GENERAL NOTES AND TYPICAL CROSS SECTION COUNTY HIGHWAY 11 SECTION 06-00002-01-BR DEKALB COUNTY STATION 43+96

FEHR-GRAHAM & ASSOCIATES, LLC
ENGINEERING AND SCIENCE CONSULTANT:
PREPORT, IL ROCKFORD, IL ROCHELLE, IL MONROE, VI SPRINGFIEL

DRAWN: S.A.P. DATE: 02/07/08

G.J.C./R.J.C. DATE: 03/04/08

FILE: SUMTYP.DGN DATE: 09/02/08