

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 20	05-00195-00-BR	MACON	18	2
FED. ROAD DIST. NO.		ILLINOIS PROJECT BRS-549(101)		

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	QUANTITY
20200100	EARTH EXCAVATION	CU YD	718
20200300	EARTH EXCAVATION FOR EROSION CONTROL	CU YD	44
20300100	CHANNEL EXCAVATION	CU YD	314
20400800	FURNISHED EXCAVATION	CU YD	2707
25000200	SEEDING, CLASS 2	ACRE	1.2
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	108
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	108
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	108
25100115	MULCH, METHOD 2	ACRE	1.2
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	120
28000300	TEMPORARY DITCH CHECKS	EACH	6
28000400	PERIMETER EROSION BARRIER	FOOT	1170
28100107	STONE RIPRAP, CLASS A4	SO YD	1117
28200200	FILTER FABRIC	SO YD	1117
31001500	LIME	TON	52.4
31000600	PROCESSING LIME STABILIZED SOIL MIXTURE 12"	SO YD	2328
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	1228
40600300	AGGREGATE (PRIME COAT)	TON	5
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	737
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	264
48101200	AGGREGATE SHOULDERS, TYPE B	TON	473
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50300225	CONCRETE STRUCTURES	CU YD	36.5
50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SO FT	2149
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	4380
50901050	STEEL RAILS TYPE SM	FOOT	135
51201005	FURNISHING METAL SHELL PILES 12"	FOOT	351
51202305	DRIVING PILES	FOOT	351
51203200	TEST PILE METAL SHELLS	EACH	1
51500100	NAME PLATES	EACH	1
58100200	WATERPROOFING MEMBRANE SYSTEM	SO YD	239
58300100	PORTLAND CEMENT MORTAR FAIRING COURSE	FOOT	470
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	25.1
*63000005	STEEL PLATE BEAM GUARD RAIL, TYPE B	FOOT	800
*63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4
*63100167	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	EACH	4
67100100	MOBILIZATION	L SUM	1
78201000	TERMINAL MARKER-DIRECT APPLIED	EACH	4

*SPECIALTY ITEMS

GENERAL NOTES

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

LAYOUT OF EROSION CONTROL ITEMS MAY BE VARIED IN THE FIELD TO SUIT GROUND CONDITIONS AS DIRECTED BY THE ENGINEER.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL UNDERGROUND UTILITY FACILITIES. HE SHALL ALSO OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULES OF THE UTILITY COMPANIES FOR THEIR MARKING OF THE EXACT LOCATION.

WHERE SECTION OR SUB-SECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL MONUMENTS UNTIL AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF HAVING AN AUTHORIZED SURVEYOR RE-ESTABLISH ANY SECTION OR SUB-SECTION MONUMENTS DESTROYED BY HIS OPERATIONS.

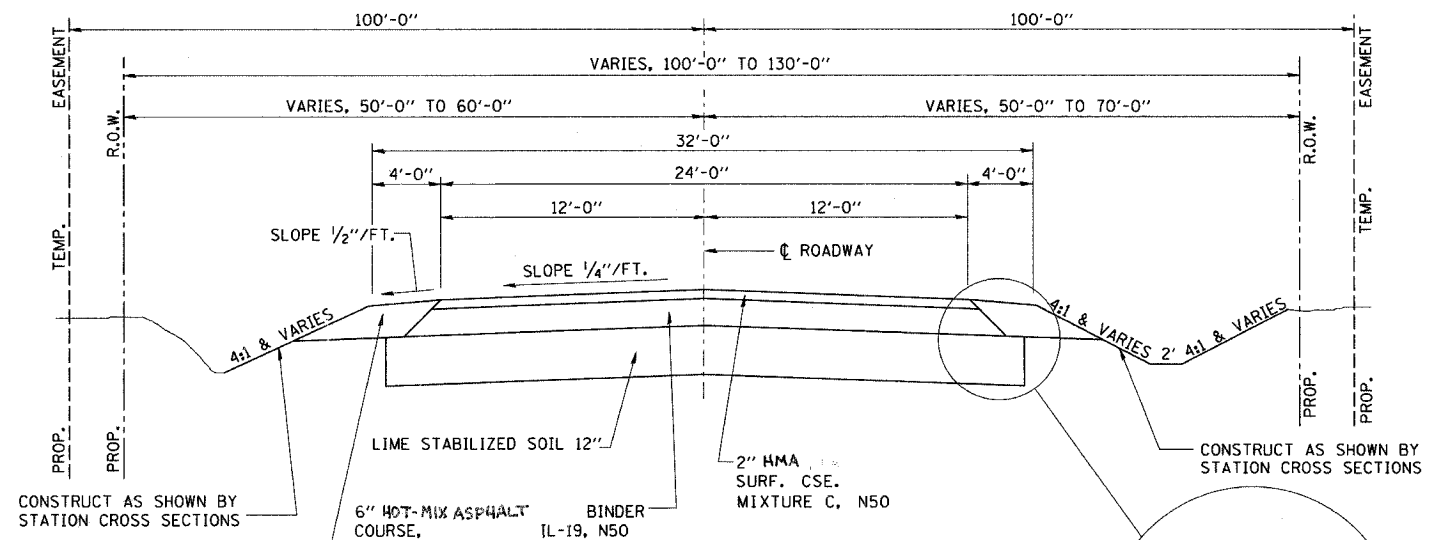
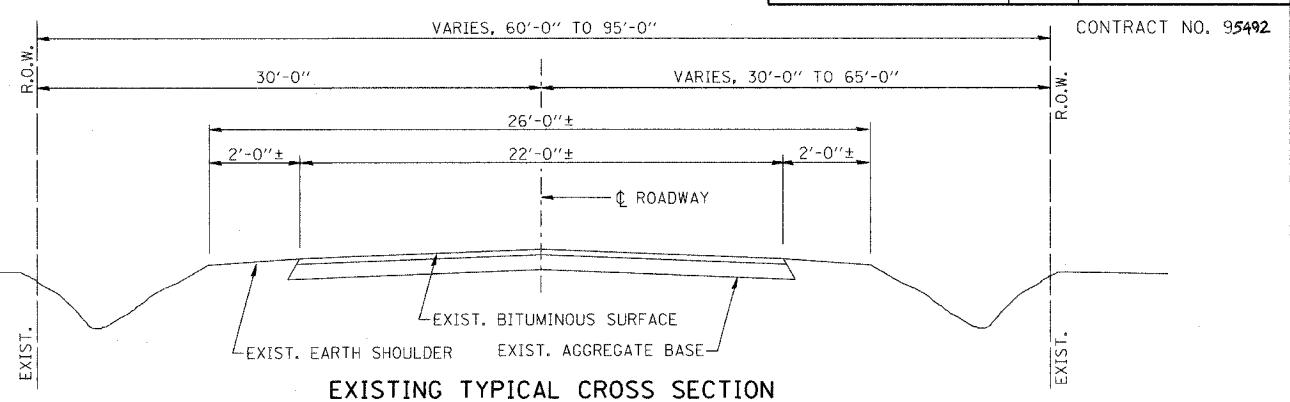
REMOVAL OF EXISTING PAVEMENT MATERIAL SHALL BE INCLUDED IN EARTH EXCAVATION.

APPLICATION RATES

LIME	45	LBS./S. Y.
GRANULAR MATERIALS	2.05	TONS/CU. YD.
BITUMINOUS MATERIALS-PRIME COAT	0.50	GALS./S. Y.
BITUMINOUS MATERIALS-FOG COAT	0.03	GALS./S. Y.
AGGREGATE PRIME COAT	2 OR 4	LBS./S. Y.
BITUMINOUS CONCRETE	112	LBS./S. Y./INCH
NITROGEN FERTILIZER NUTRIENT	90	LBS./ACRE
PHOSPHORUS FERTILIZER NUTRIENT	90	LBS./ACRE
POTASSIUM FERTILIZER NUTRIENT	90	LBS./ACRE
MULCH METHOD 2	2	TONS/ACRE

BITUMINOUS MIXTURE REQUIREMENTS

LOCATION	CH 20	CH 20
MIX USE	BINDER	SURFACE
AC/PG	PG 64-22	PG 64-22
RAP %	25	15
DESIGN VOIDS	4.0 @ N=50	4.0 @ N=50
MIXTURE COMPOSITION (GRAD. MIXTURE)	IL-19.0	IL-9.5
FRICTION	N/A	MIX C

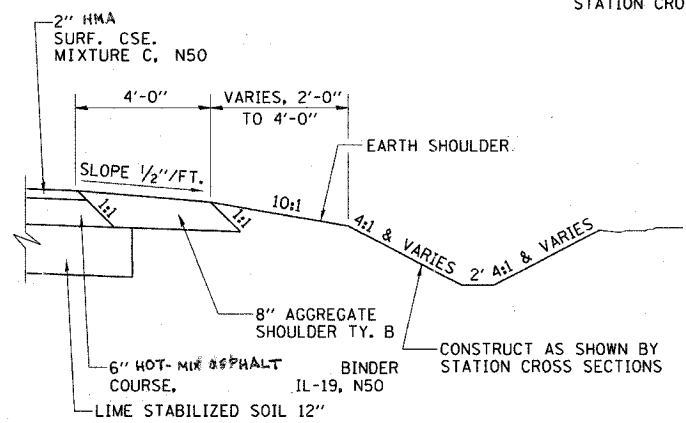


PROPOSED TYPICAL CROSS SECTION

STA. 11+85.00 TO STA. 15+32.22
 STA. 16+01.75 TO STA. 18+50.00
 (TRANSITION STA. 10+85.00 TO STA. 11+85.00)
 (TRANSITION STA. 18+50.00 TO STA. 19+50.00)

ROADWAY QUANTITY SCHEDULE

LOCATION	PR LIM STAB SOIL M 12" (SQ YD)	BIT MATLS PR CT (GAL)	AGG PR CT (TON)	BCBC SUP IL-19.0 N50 (TON)	BC SC SUPER "C" N50 (TON)	AGGREGATE SHLDS B (TON)
M.L. STA. 6+90.00 TO STA. 10+85.00						87
M.L. STA. 10+85.00 TO STA. 15+32.22	1309	690	2.5	414	134	212
M.L. STA. 16+01.75 TO STA. 19+50.00	1019	538	2.5	323	105	174
OVERLAY AT STRUCTURE						25
TOTALS	2328	1228	5	737	264	473



(SEE STANDARD 630301)

GENERAL DATA

Date	Designed MJP	C.H. 20 OVER DRAINAGE DITCH SECTION 05-00195-00-BR MACON COUNTY STA. 15+66.99 PROP. STR. NO. 058-3377
Revisions	Drawn REZ	
	Checked KWB	
	Approved KWB	
Prepared by:	URS	
345 East Ash Avenue Decatur, IL 62526		URS Job No. 36431466