

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET
FAS 805	19-00127-00-RS	LAWRENCE	5	1

06-12-2020 LETTING ITEM 123

INDEX OF SHEETS

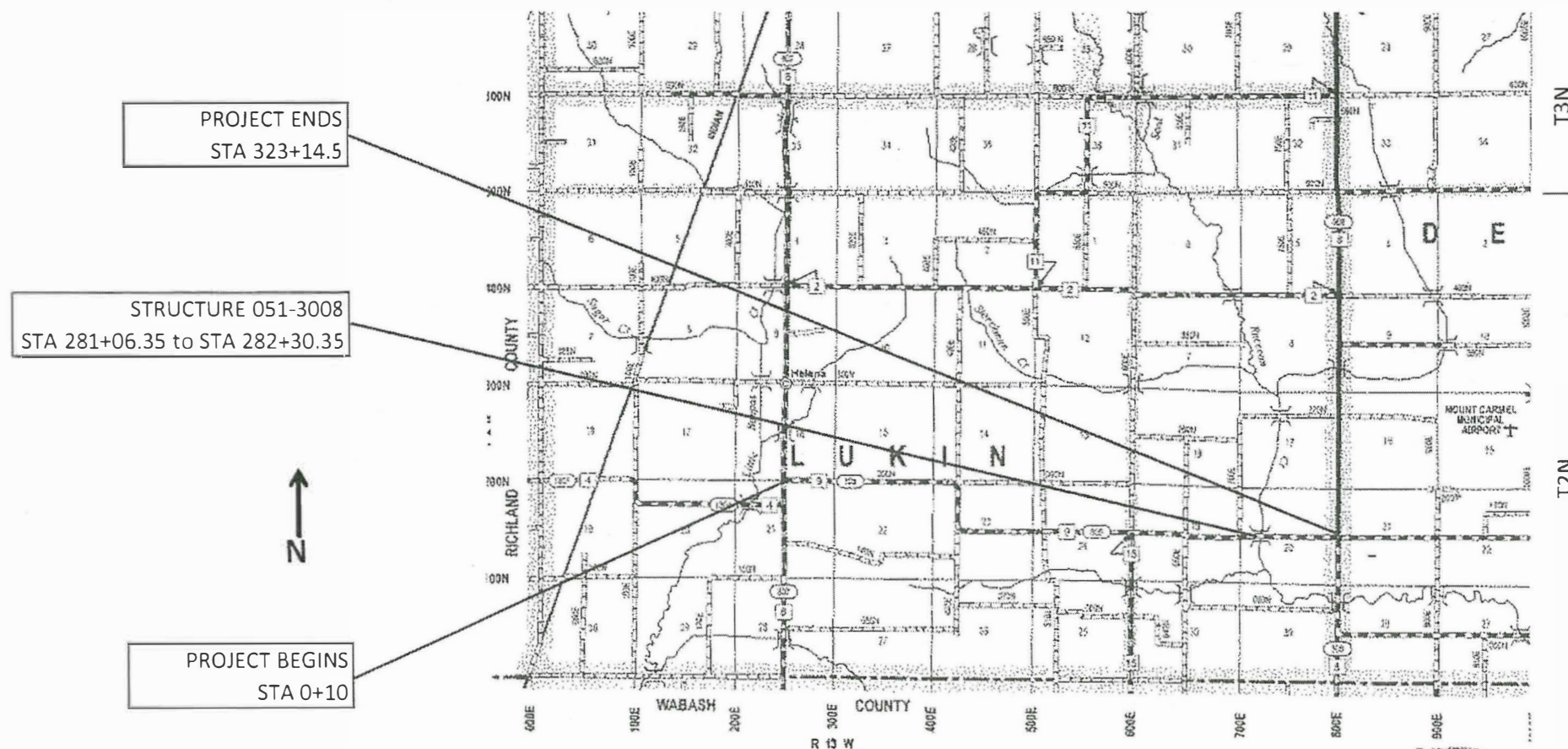
1. Cover Sheet
2. Summary of Quantities, Highway Standards, and General Notes
3. Typical Sections and Schedules
4. Details and Schedules
5. Pipe Culvert Profiles

HIGHWAY STANDARDS, SEE SHEET #2

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PLANS FOR PROPOSED
SURFACE TRANSPORTATION PROJECT**

FAS 805
SECTION 19-00127-00-RS
LAWRENCE COUNTY
PROJECT TOM1(446)
JOB NO. C-97-103-21



APPROVED March 30, 2020

Aaron Mefford
COUNTY ENGINEER

PASSED April 8, 2020

SA Keller
DISTRICT SEVEN ENGINEER OF
LOCAL ROADS & STREETS

RELEASING FOR
BID BASED ON
LIMITED REVIEW April 8, 2020

Jeffrey O'Connell
REGION FOUR ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



GROSS LENGTH = 32,304.5 FT (6.12 MILES)
OMISSIONS = 124 FT (0.02 MILES)
NET LENGTH = 32,180.5 FT (6.10 MILES)



CONTRACT NO. 95876
DESIGN CLASS = MAJOR COLLECTOR
ADT = 300
DESIGN SPEED = 50 MPH

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET
FAS 805	19-00127-00-RS	LAWRENCE	5	2

HIGHWAY STANDARDS

000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-04	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥ 45 MPH
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS DAY ONLY
701336-07	LANE CLOSURE, 2L, 2W, WORK AREAS IN SERIES, FOR SPEEDS ≥ 45 MPH
701901-08	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS
BLR 24-2	MAILBOX TURNOUT FOR LOCAL ROADS

GENERAL NOTES

THE QUANTITY SHOWN IN THE SUMMARY OF QUANTITIES FOR HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70 ALLOWS 129 TONS FOR ENTRANCES, 21 TON FOR MAILBOX TURNOUTS, AND 7731 TONS FOR THE 1½" HOT-MIX ASPHALT SURFACE COURSE, IL-9.5 MIX "C" N70 AND 7806 TONS FOR THE FIRST LIFT AND CROWN CORRECTION.

THE FOLLOWING RATES HAVE BEEN USED TO CALCULATE PLAN QUANTITY
 AGGREGATE SHOULDERS, TY. B 1.8 TON/CU YD
 HOT-MIX ASPHALT 0.0560 TON/ SQ YD*INCH
 BITUMINOUS MATERIALS (TACK COAT) 0.05 LBS/SQ FT
 RIPRAP 1.8 TONS/CU YD

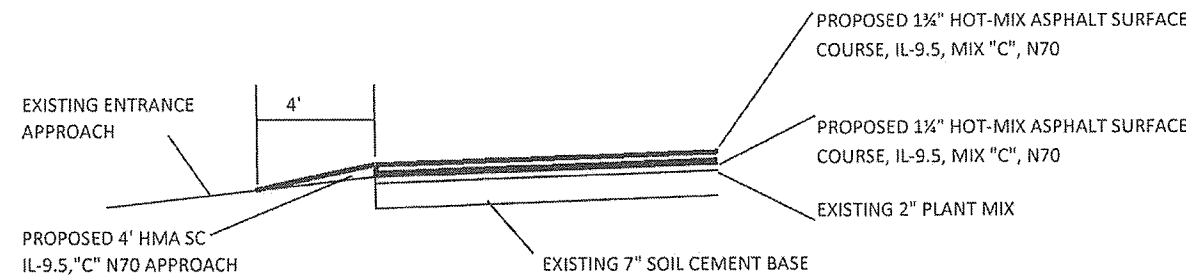
GRADING AND SHAPING DITCHES SHALL BE INCLUDED IN THE PRICE FOR PROPOSED PIPE CULVERTS

MIX DESIGN FOR HOT-MIX ASPHALT
 APPLICATION: HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C" N70
 PG GRADE: PG 64-22
 DESIGN AIR VOIDS: 4.0% @ Ndesign 70
 MIXTURE COMPOSITION: IL-9.5
 FRICTION AGGREGATE: MIXTURE C

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
28100805	STONE DUMPED RIPRAP, CLASS A3	TON	20
28100807	STONE DUMPED RIPRAP, CLASS A4	TON	175
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	49610
40604052	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70	TON	15687
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	167
44300100	AREA REFLECTIVE CRACK CONTROL TREATMENT	SQ YD	78610
48101200	AGGREGATE SHOULDERS, TYPE B	TON	2930
542C1063	PIPE CULVERTS, CLASS C, TYPE 2 18"	FOOT	70
542C5491	PIPE CULVERTS, CLASS C, TYPE 1 EQUIVALENT ROUND-SIZE 36"	FOOT	70
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	50
67100100	MOBILIZATION	L SUM	1
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1
70100600	TRAFFIC CONTROL AND PROTECTION, STANDARD 701336	L SUM	1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	6450
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	1075
△ 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	21157
X2140100	GRADING AND SHAPING DITCHES, SPECIAL	FOOT	556
XX127400	PAVEMENT REMOVAL AND REPLACENT (SPECIAL)	TON	23

PRIVATE & FIELD ENTRANCE APPROACH DETAIL

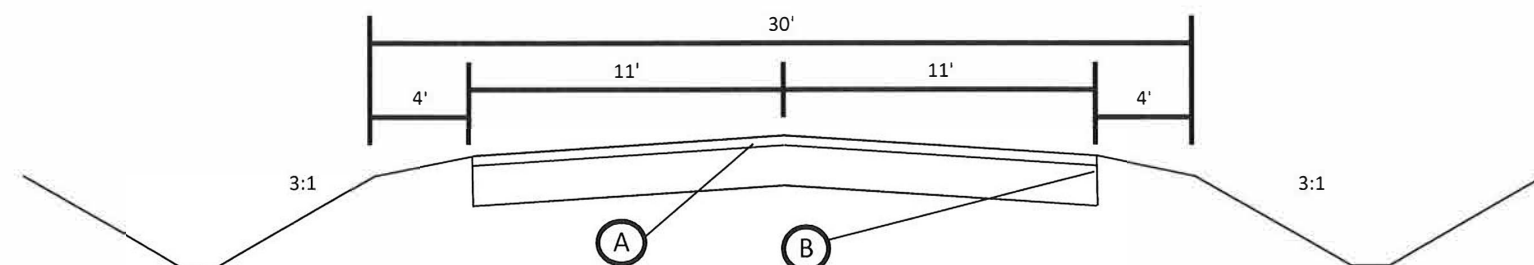


NOTE: THE 4' AREA FROM THE EDGE OF SURFACE, AS SHOWN ABOVE, SHALL BE HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70 FOR THE PRIVATE AND FIELD ENTRANCES THIS QUANTITY IS INCLUDED IN HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70.

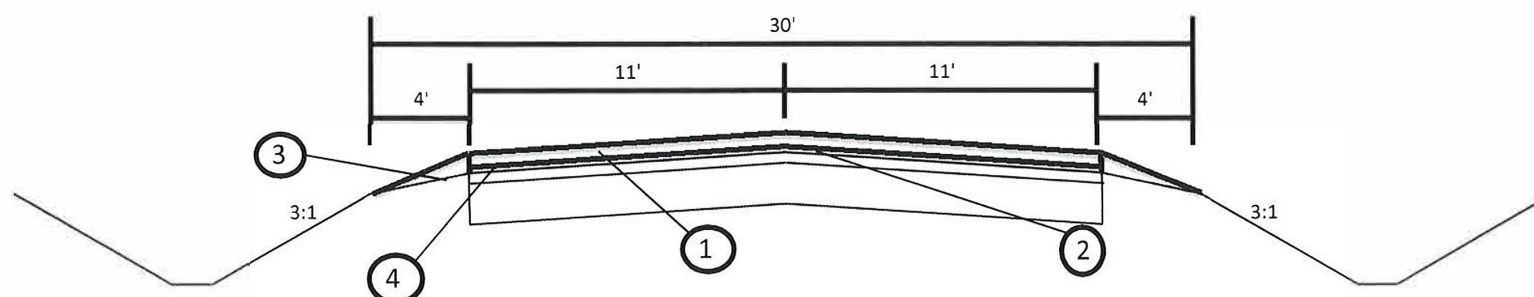
△ SPECIALTY ITEMS

Curve #1	Curve #2	Curve #4	Curve #5	Curve #7	Curve #8
TANGENT RUNOFF BEGINS STA. 88+25.54	TANGENT RUNOFF BEGINS STA. 113+01.83	TANGENT RUNOFF BEGINS STA. 233+57.80	S.E. RUNOFF BEGINS STA. 238+86.87	TANGENT RUNOFF BEGINS STA. 261+22.76	TANGENT RUNOFF BEGINS STA. 271+98.15
S.E. RUNOFF BEGINS STA. 88+53.54	S.E. RUNOFF BEGINS STA. 113+29.83	S.E. RUNOFF BEGINS STA. 233+90.80	FULL S.E. BEGINS STA. 240+42.87	S.E. RUNOFF BEGINS STA. 261+55.76	S.E. RUNOFF BEGINS STA. 272+33.15
FULL S.E. BEGINS STA. 90+04.54	FULL S.E. BEGINS STA. 114+80.83	FULL S.E. BEGINS STA. 235+33.80	FULL S.E. BEGINS STA. 242+89.81	FULL S.E. BEGINS STA. 262+43.76	FULL S.E. BEGINS STA. 273+03.15
FULL S.E. ENDS STA. 96+20.97	FULL S.E. ENDS STA. 121+24.05	FULL S.E. ENDS STA. 237+58.01	S.E. RUNOFF ENDS STA. 244+45.81	FULL S.E. ENDS STA. 26+61.23	FULL S.E. ENDS STA. 278+98.09
S.E. RUNOFF ENDS STA. 97+71.97	S.E. RUNOFF ENDS STA. 122+75.05	S.E. RUNOFF ENDS STA. 239+01.01	TANGENT RUNOFF ENDS STA. 244+65.81	S.E. RUNOFF ENDS STA. 267+49.23	S.E. RUNOFF ENDS STA. 279+68.09
TANGENT RUNOFF ENDS STA. 97+99.97	TANGENT RUNOFF ENDS STA. 123+03.05	S.E. RATE = 0.065 FT/FT	S.E. RATE = 0.065 FT/FT	TANGENT RUNOFF ENDS STA. 267+82.23	TANGENT RUNOFF ENDS STA. 280+03.09
S.E. RATE = 0.080 FT/FT	S.E. RATE = 0.080 FT/FT			S.E. RATE = 0.040 FT/FT	S.E. RATE = 0.030 FT/FT

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET
FAS 805	19-00127-00-RS	LAWRENCE	5	3



EXISTING TYPICAL SECTION



PROPOSED TYPICAL SECTION

(A) Existing 2" Bituminous Surface Plant Mix (Class B)

(B) Existing 7" Soil Cement Base Course

(1) Proposed 1-3/4" Hot-Mix Asphalt Surface Course, IL-9.5, Mix "C", N70

(2) Proposed 1-1/4" Hot-Mix Asphalt Surface Course, IL-9.5, Mix "C", N70

(3) Proposed 4' Aggregate Shoulder

(4) Proposed Area Reflective Crack Control Treatment

PAVEMENT MARKING SCHEDULE

STATION	TO	STATION	LOCATION	FOOT
0+10		332+58	CL	7586
18+14		23+11	RIGHT	497
25+98		30+08	LEFT	410
43+86		50+08	RIGHT	622
52+99		59+06	LEFT	607
71+58		96+08	RIGHT	2450
81+60		103+69	LEFT	2209
107+95		120+00	RIGHT	1205
115+52		127+99	LEFT	1247
184+38		189+00	RIGHT	462
192+14		197+11	LEFT	497
213+47		238+59	RIGHT	2512
238+49		247+02	LEFT	853
TOTAL =				21157.0

SCHEDULE OF PRIVATE AND FIELD ENTRANCES

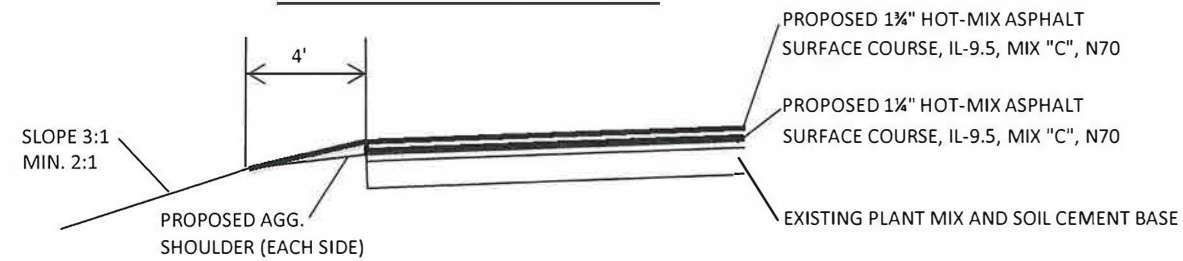
STATION	LOCATION	TONS	STATION	LOCATION	TONS	STATION	LOCATION	TONS
7+86	LEFT	1.6	115+50	LEFT	5.1	229+90	LEFT	2.1
8+63	LEFT	1.6	122+92	RIGHT	2.6	230+84	RIGHT	2.1
13+83	LEFT	1.8	125+25	LEFT	2.7	241+19	LEFT	2.1
17+00	LEFT	1.8	127+46	LEFT	2.4	241+81	LEFT	2.1
18+49	RIGHT	1.8	128+78	LEFT	1.6	243+82	LEFT	1.5
25+80	RIGHT	1.6	130+70	RIGHT	1.9	249+73	LEFT	1.8
27+35	LEFT	1.8	135+00	LEFT	2.4	252+30	RIGHT	2.1
36+67	RIGHT	1.8	143+88	RIGHT	2.4	253+60	LEFT	1.8
40+39	LEFT	3.3	144+87	RIGHT	2.2	264+91	LEFT	2.2
51+90	LEFT	1.8	151+19	LEFT	1.6	269+61	RIGHT	1.8
54+66	LEFT	1.9	154+16	LEFT	2.6	274+44	LEFT	1.5
60+38	LEFT	2.7	155+44	LEFT	2.6	277+78	RIGHT	1.6
60+46	RIGHT	2.1	170+79	LEFT	2.8	286+34	RIGHT	1.8
65+49	RIGHT	2.1	178+49	RIGHT	2.6	286+67	LEFT	1.8
67+21	LEFT	2.1	184+38	RIGHT	1.9	287+77	RIGHT	2.3
76+52	LEFT	1.6	197+48	LEFT	1.9	295+75	LEFT	1.7
79+15	RIGHT	1.5	197+83	RIGHT	1.3	295+94	RIGHT	2.2
97+17	RIGHT	3.0	210+07	LEFT	1.9	313+56	LEFT	1.9
98+34	LEFT	1.8	210+37	RIGHT	1.9	322+00	LEFT	2.5
111+28	LEFT	2.6	220+62	LEFT	1.9	322+33	RIGHT	1.8
111+72	RIGHT	1.8	229+17	LEFT	1.9	TOTAL =		129.0

SCHEDULE OF MAILBOX TURNOUTS

STATION	LOCATION	TONS	STATION	LOCATION	TONS
115+46	RIGHT	3.0	154+85	RIGHT	2.3
122+73	RIGHT	3.7	163+22	RIGHT	2.3
127+39	RIGHT	3.7	287+77	LEFT	3.0
144+99	RIGHT	3.0	TOTAL =		21.0

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET
FAS 805	19-00127-00-RS	LAWRENCE	5	4

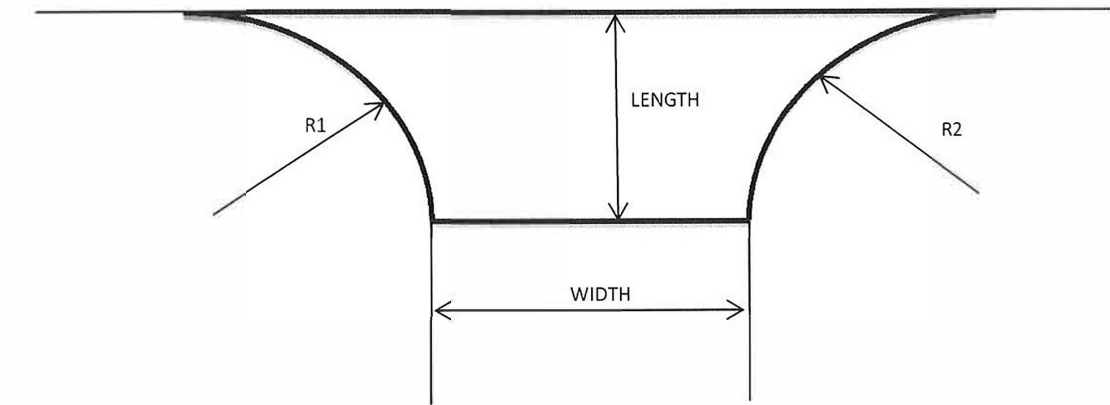
AGGREGATE SHOULDER DETAIL



SCHEDULE OF AGGREGATE SHOULDER, TYPE B

STATION	TO	STATION	LOCATION	TONS
0+10		88+44	LEFT	440
88+44		98+12	LEFT	42
98+12		113+27	LEFT	91
113+27		123+00	LEFT	47
123+00		233+74	LEFT	487
233+74		244+45	LEFT	54
244+45		261+50	LEFT	95
261+50		267+71	LEFT	37
267+71		272+23	LEFT	18
272+23		279+81	LEFT	33
279+81		322+58	LEFT	180
0+10		88+44	RIGHT	352
88+44		98+12	RIGHT	42
98+12		113+27	RIGHT	55
113+27		123+00	RIGHT	47
123+00		233+74	RIGHT	487
233+74		244+45	RIGHT	56
244+45		261+50	RIGHT	72
261+50		267+71	RIGHT	28
267+71		272+23	RIGHT	25
272+23		279+81	RIGHT	45
279+81		322+58	RIGHT	197
TOTAL =				2930.0

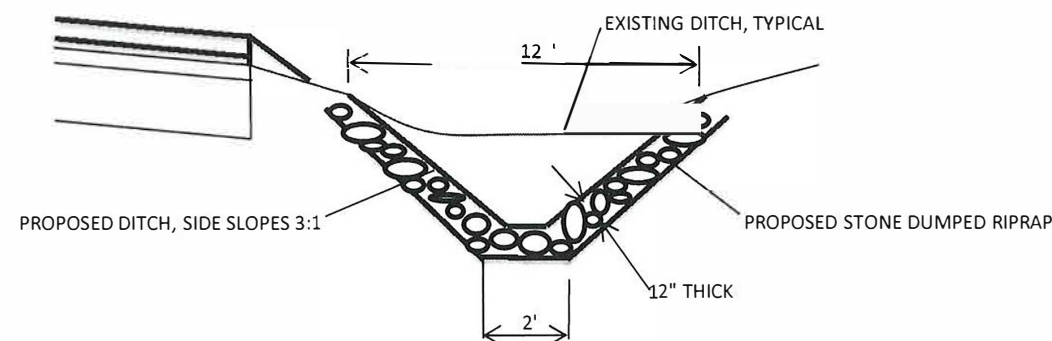
SIDEROAD DETAILS



SCHEDULE OF INCIDENTAL HOT-MIX ASPHALT SURFACING

94+00	LEFT	50'	50'	50'	18'	18.5
117+60	RIGHT	50'	50'	50'	18'	18.5
119+55	RIGHT	30'	30'	30'	18'	8.7
163+73	LEFT	30'	30'	30'	18'	8.7
163+73	RIGHT	30'	30'	30'	18'	8.7
210+97	LEFT	30'	30'	30'	18'	8.7
210+97	RIGHT	30'	30'	30'	18'	8.7
240+17	LEFT	30'	30'	30'	18'	8.7
240+17	RIGHT	30'	30'	30'	18'	8.7
271+50	LEFT	25'	40'	75'	18'	41.8
322+66	RIGHT	30'	30'	35'	22'	13.6
322+70	LEFT	30'	30'	35'	22'	13.7
TOTAL =						167.0

GRADING AND SHAPING DITCHES, SPECIAL DETAIL



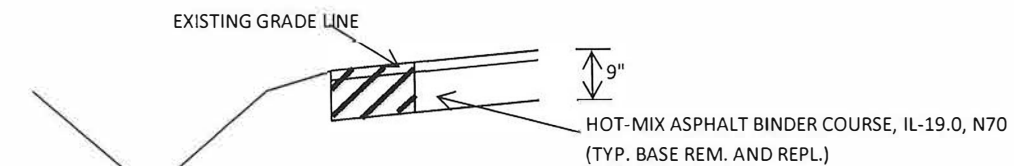
SCHEDULE GRADING AND SHAPING DITCHES, SPECIAL

STATION	TO	STATION	LOCATION	FEET
54+82		60+21	LEFT	539
57+02		TO ROW	RIGHT	17
TOTAL =				556.0

RIPRAP CLASS A4 SCHEDULE

STATION	TO	STATION	LOCATION	TONS
54+82		60+21	LEFT	163
57+02		TO ROW	RIGHT	12
323+14		AROUND PIPE	LEFT	
TOTAL =				175.0

DETAIL OF PAVEMENT REMOVAL AND REPLACEMENT, SPECIAL



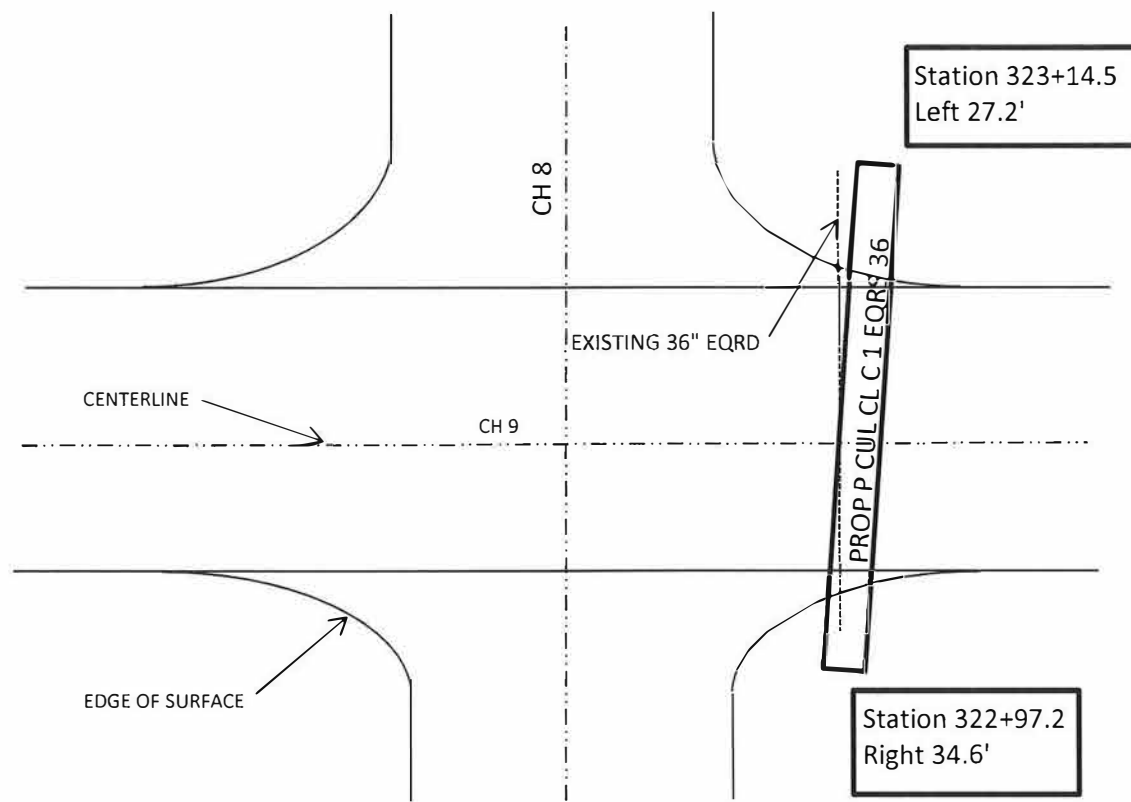
THE SCHEDULE ABOVE REFLECTS APPROXIMATE LOCATION AND ESTIMATED QUANTITIES. THE ACTUAL AREAS SHALL BE LOCATED AND MARKED BY THE ENGINEER PRIOR TO CONSTRUCTION. THE BELOW QUANTITY IS INCLUDED IN PAVEMENT REMOVAL AND REPLACEMENT, SPECIAL IN THE SUMMARY OF QUANTITIES.

SCHEDULE OF PAVEMENT REMOVAL AND REPLACEMENT, SPECIAL

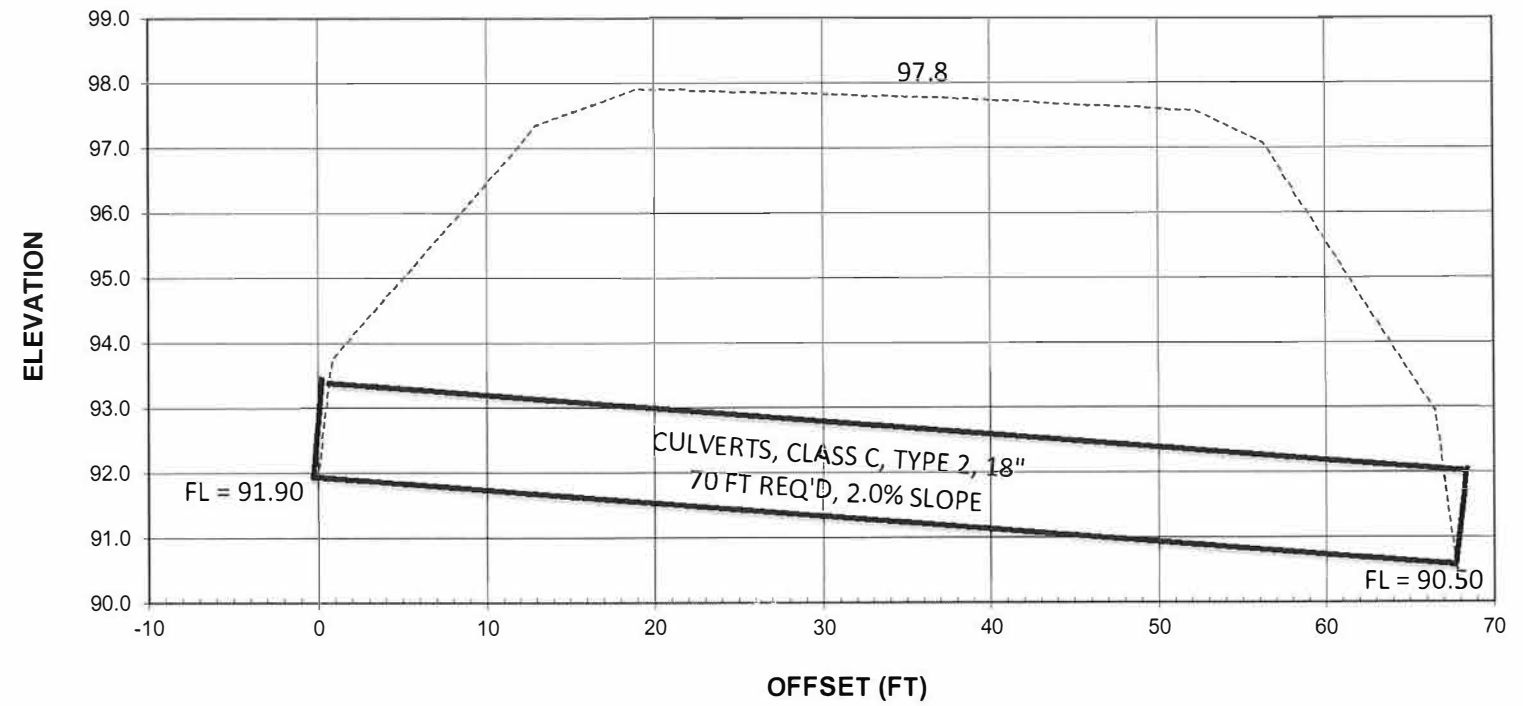
STATION	TO	STATION	LOCATION	WIDTH	SQ YD	TONS
271+50 SR		PIPE CULVERT	LEFT	4.5'	22	11
323+08		PIPE CULVERT	ACROSS ROAD	5.5'	24	12
TOTAL =					46.0	23.0

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET
FAS 805	19-00127-00-RS	LAWRENCE	5	5

DETAIL OF PIPE CULVERT AT STATION 322+96



Sta 271+50 Sideroad



RIPRAP CLASS A3 SCHEDULE

STATION	SIDE OF ROAD	LOCATION	LENGTH	WIDTH	AREA	THICKNESS	TONS
323+14.5	LEFT	AROUND 36" EQRS	25 FEET	12 FEET	33.3 SY	12"	20
TOTAL =							20.0

SCHEDULE OF CONTROLLED LOW-STRENGTH MATERIAL

STATION	TO	STATION	LOCATION	LENGTH	SQ YD
271+50 SR		323+08	PIPE CULVERT LEFT	44.0'	28
			PIPE CULVERT ACROSS ROAD	44.0'	22
TOTAL =					50.0

Sta 323+08 AR Pipe

