

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1814	14-00068-00-RS	EDWARDS	5	1
FED. ROAD DIST. NO.		ILLINOIS	BROWNS BLACKTOP	

**INDEX OF SHEETS**

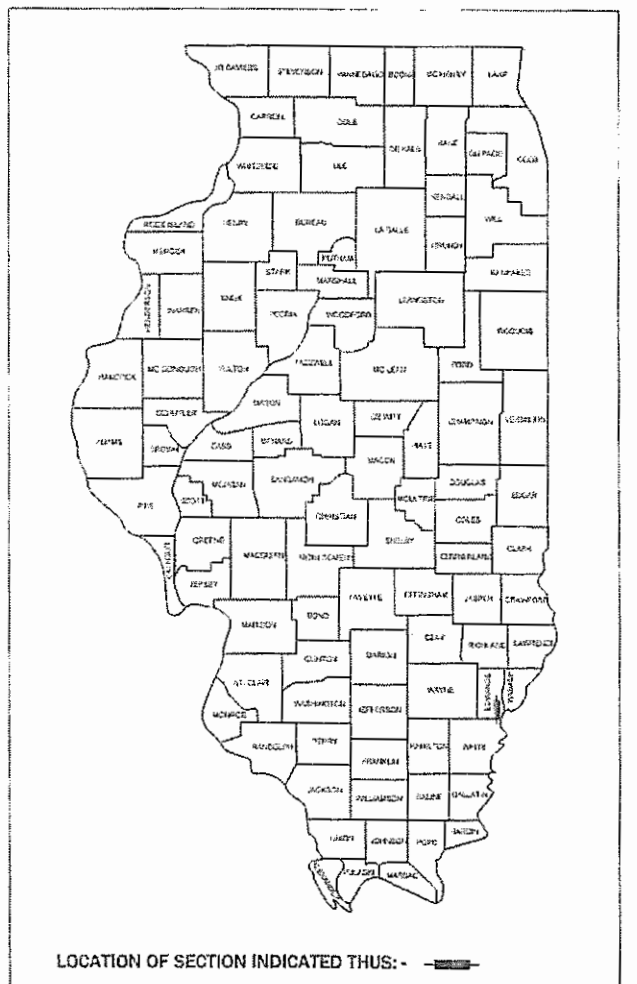
08-02-2019 LETTING ITEM 033

- | SHEET NO. | DESCRIPTION  |
|-----------|--|
| 1.        | COVER SHEET  |
| 2.        | TYPICAL SECTIONS, SUMMARY OF QUANTITIES, AND GENERAL NOTES |
| 3.        | DETAILS OF SIDEROADS AND TAPERS                            |
| 4.        | MISCELLANEOUS DETAILS AND SCHEDULES                        |
| 5.        | DETAILS OF PIPE CULVERT REPLACEMENT                        |
- HIGHWAY STANDARDS. SEE SHEET #2

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**  
**DIVISION OF HIGHWAYS**

**PLANS FOR PROPOSED  
FEDERAL-AID SECONDARY PROJECT**

**EDWARDS COUNTY**  
**FAS 1814**  
**SECTION: 14-00068-00-RS**  
**PROJECT: KJU1(847)**  
**JOB NO.: C-97-054-19**

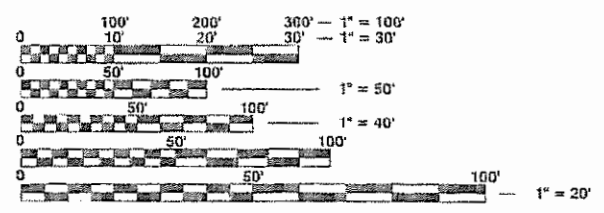


**UTILITIES**

- RURAL WABASH WATER DISTRICT  
P.O. BOX 55; LANCASTER, IL 62855  
PHONE: (618)-665-3311
- MT. CARMEL PUBLIC UTILITY  
316 MARKET STREET; MT. CARMEL, IL 62863
- NORRIS ELECTRIC COOP.  
9543 NORTH STATE HWY 130 SOUTH; NEWTON, IL 62448  
PHONE: (618)-289-6101
- FRONTIER COMMUNICATIONS  
200 WEST CHERRY STREET; CARMI, IL 62821  
PHONE: (618)-382-2887
- NEW WAVE COMMUNICATIONS  
1 MONTGOMERY PLAZA, 4TH FLOOR; SIKESTON, MO 63801  
PHONE: (618)283-9630

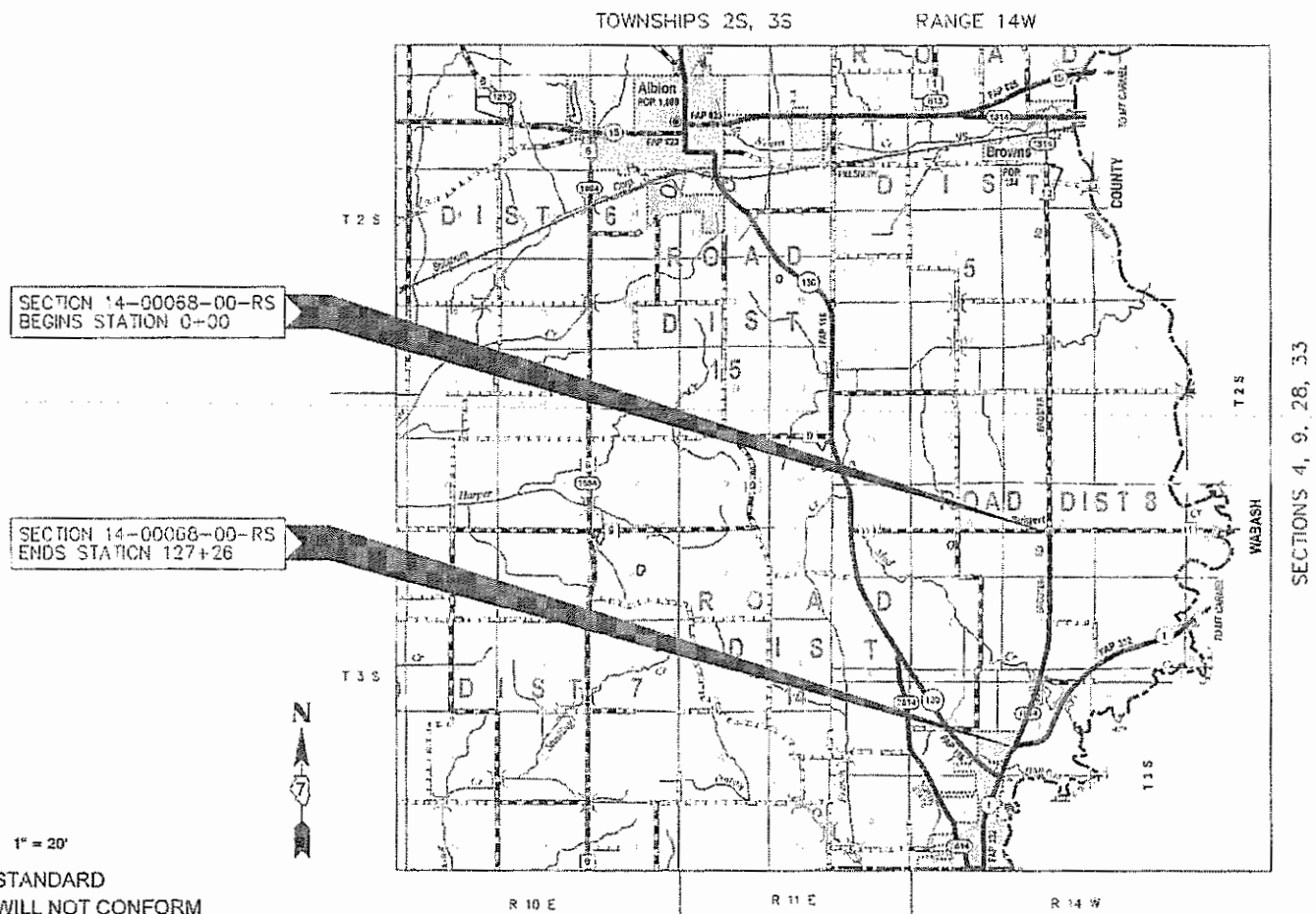


Know what's below.  
Call before you dig.



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

**CONTRACT NO.: 95857**  
**DESIGN CLASS - MAJOR COLLECTOR**  
**CURRENT A.D.T. = 650 DESIGN**  
**SPEED = 50 MPH**



**LOCATION MAP**

APPROXIMATE SCALE: 0 2 4 MILE

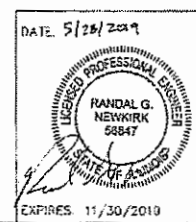
GROSS LENGTH = 12,726.00 FEET (2.410 MILES)  
OMMISSIONS = 0 FEET (0.00 MILES)  
NET LENGTH = 12,726.00 FEET (2.410 MILES)

APPROVED: May 24<sup>th</sup> 2019  
  
COUNTY ENGINEER

PASSED: May 31 2019  
JA Phillips  
DISTRICT SEVEN ENGINEER OF  
LOCAL ROADS & STREETS

RELEASING FOR  
BID BASED ON  
LIMITED REVIEW May 31, 2019  
  
REGION FOUR ENGINEER

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



DATE: 5/28/2019

**HAMPTON, LENZINI AND RENWICK, INC.**  
323 WEST THIRD STREET, P.O. BOX 180  
MT. CARMEL, ILLINOIS 62863

**HLR** ILLINOIS PROFESSIONAL DESIGN FIRM  
LS / PE / SE CCRP 184 000959

EXPIRES: 11/30/2019 PROJECT NUMBER: 17.0904.330 DATE: 01/29/19

### HIGHWAY STANDARDS

000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
406201-01	MAILBOX TURNOUT
701006-05	OFF-ROAD 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 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

### GENERAL NOTES:

THE EXISTING GRADE, ALIGNMENT, DRAINAGE STRUCTURES, BASE AND SURFACE WERE CONSTRUCTED UNDER SECTIONS 30-Q AND 92-00030-01-RS AND SHALL REMAIN IN PLACE. ALL STATIONS REFERRED TO IN THE PLANS AND PROPOSAL ARE REFERENCED TO THE ABOVE MENTIONED SECTIONS.

MAXIMUM PERCENT OF GRADE	4.00 %
MINIMUM STOPPING SIGHT DISTANCE	318 FT
DESIGN SPEED	50 MPH
CURRENT ADT	550 VPD
DESIGN ADT (20 YEAR)	650 VPD

THE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70 SHALL BE PLACED IN ONE LIFT WITH A MINIMUM THICKNESS OF 1 1/2".

THE QUANTITY SHOWN IN THE SUMMARY OF QUANTITIES FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70 ALLOWS 175 TON FOR THE INTERSECTIONS, SIDEROADS, AND TAPERS; 75 TON FOR THE ENTRANCES; 45 TON FOR THE MAILBOX TURNOUTS, AND 2,810 TON FOR THE 1 1/2" HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70.

THE FOLLOWING RATES HAVE BEEN USED TO CALCULATE PLAN QUANTITIES:

AGGREGATE SHOULDERS TYP B	1.8 T / CU YD
HOT-MIX ASPHALT	120 LBS / SQ YD * INCH
BITUMINOUS MATERIAL (TACK COAT)	0.05 LBS / SQ FT

ALL DISTURBED AREAS ARE TO BE SEED BY THE COUNTY.

HOT-MIX ASPHALT MIXTURES SHALL BE PG64-22 ASPHALT AND ACCORDING TO THE TABLE BELOW:

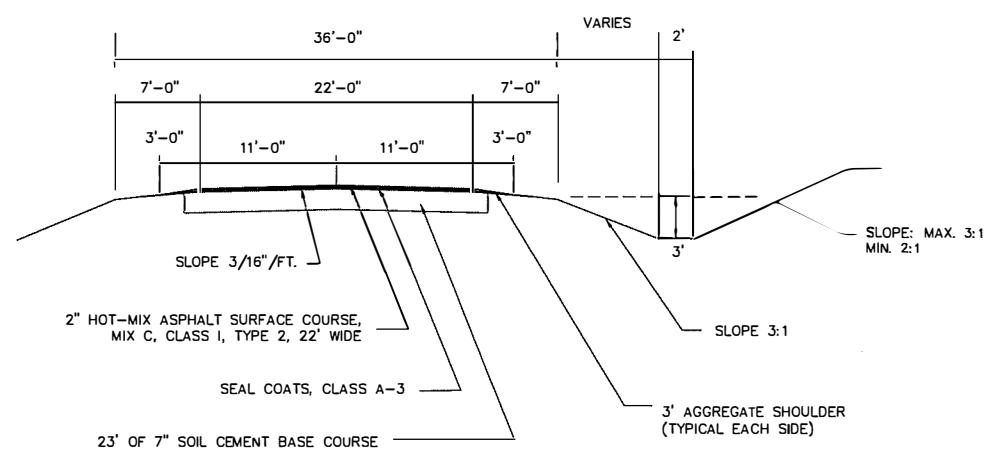
APPLICATION	AC/PG	DESIGN AIR VOIDS	MIXTURE COMPOSITION	FRICTION AGGREGATE	QUALITY MANAGEMENT
HMA SURFACE COURSE, MIX "C", N70 (1 1/2")	PG 64-22	4.0% @ N=70	IL-9.5	MIXTURE C	QC/QA
HMA BINDER COURSE, IL 19.0, N70 (3")	PG 64-22	4.0% @ N=70	IL-19.0	N/A	QC/QA

CODENO.	ITEM	UNIT	TOTAL QUANTITY
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	42,456
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	5,610
40603315	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	TON	3,105
44004000	PAVED DITCH REMOVAL	FOOT	15
48101200	AGGREGATE SHOULDERS, TYPE B	TON	4,499
50105220	PIPE CULVERT REMOVAL	FOOT	347
542A0229	PIPE CULVERTS, CLASS A, TYPE 124"	FOOT	281
542A0241	PIPE CULVERTS, CLASS A, TYPE 136"	FOOT	66
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	111
67100100	MOBILIZATION	LSUM	1
70100460	TRAFFIC CONTROL STANDARD 701306	LSUM	1
70100600	TRAFFIC CONTROL STANDARD 701336	LSUM	1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	3,818
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQFT	1,273
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	45,982
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQYD	778
XX127400	PAVEMENT REMOVAL AND REPLACEMENT (SPECIAL)	TON	40

Δ SPECIALTY ITEMS

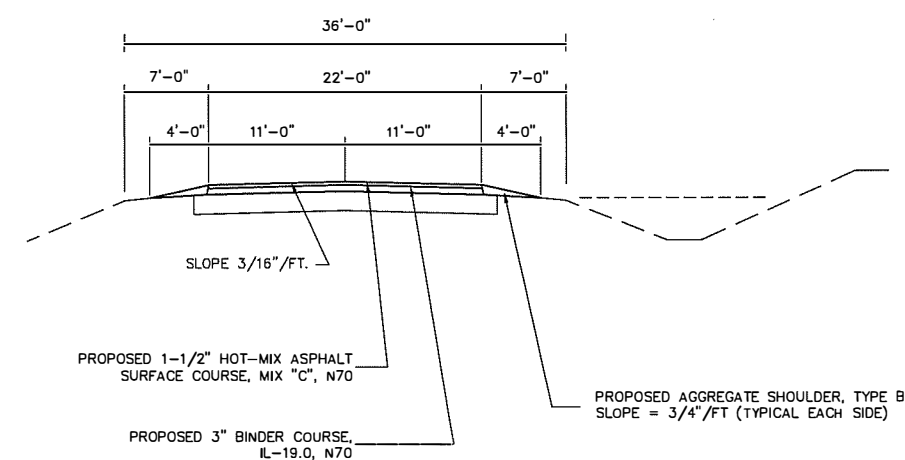
### TYPICAL CROSS SECTION EXISTING

(STA 0+00 TO STA 127+26)



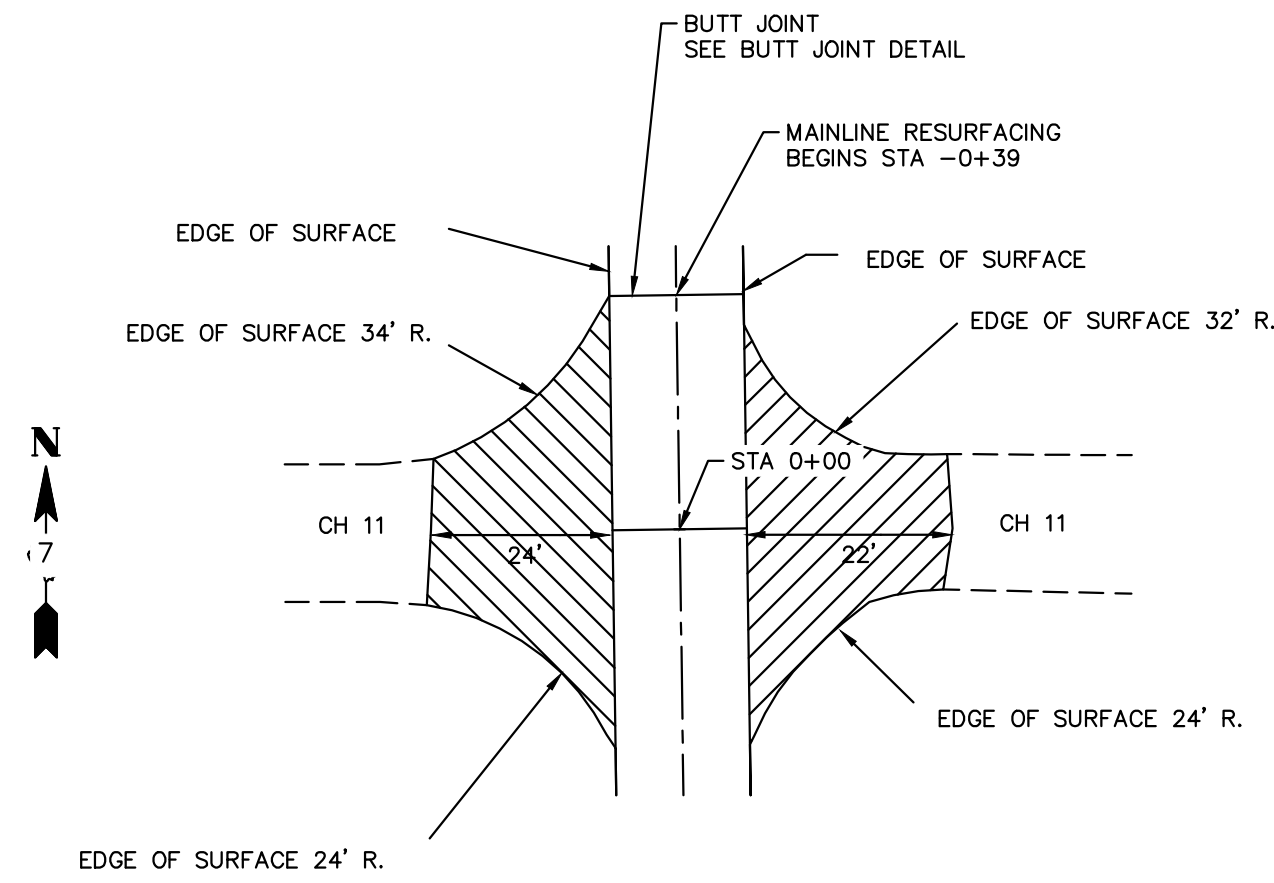
### TYPICAL CROSS SECTION PROPOSED

(STA 0+00 TO STA 127+26)



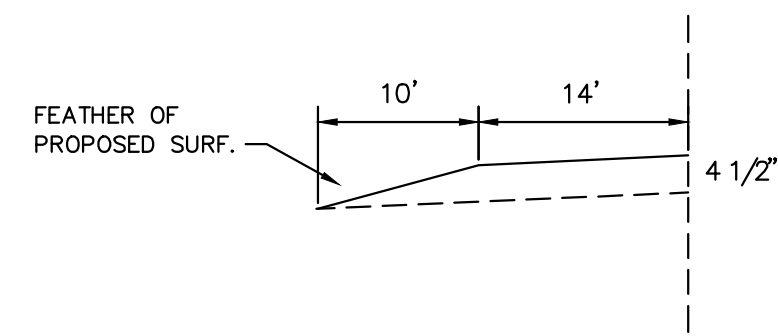
DETAILS OF SURFACING AT INTERSECTIONS AND SIDEROADS

DETAIL OF INTERSECTION 0+00 LT AND RT

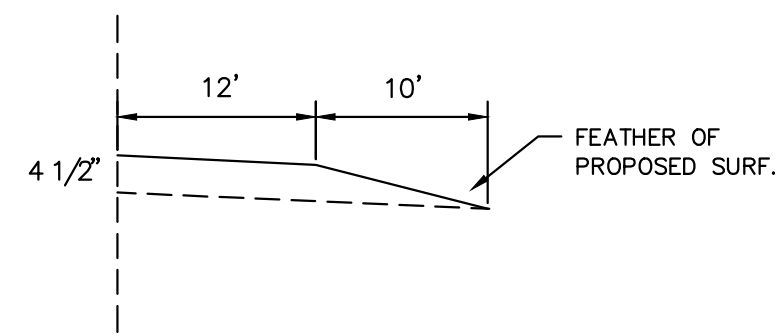


NOTE: THE QUANTITY SHOWN FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70 INCLUDES 27.1 TONS OF MATERIAL FOR THE SIDEROAD LT APPROACH AND RADII AND 30.7 TONS OF MATERIAL FOR THE SIDEROAD RT APPROACH AND RADII.

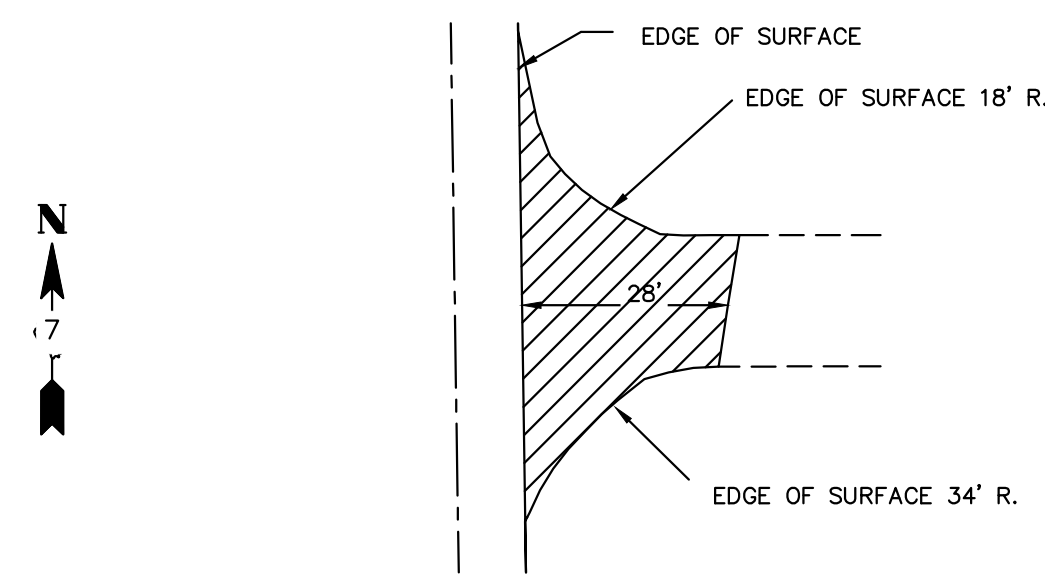
PROFILE RT



PROFILE LT

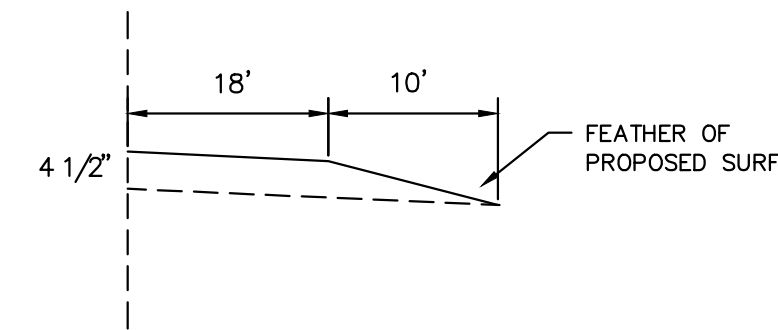


DETAIL OF INTERSECTION 53+79 LT



NOTE: THE QUANTITY SHOWN FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70 INCLUDES 21.3 TONS OF MATERIAL FOR THE SIDEROAD LT APPROACH AND RADII.

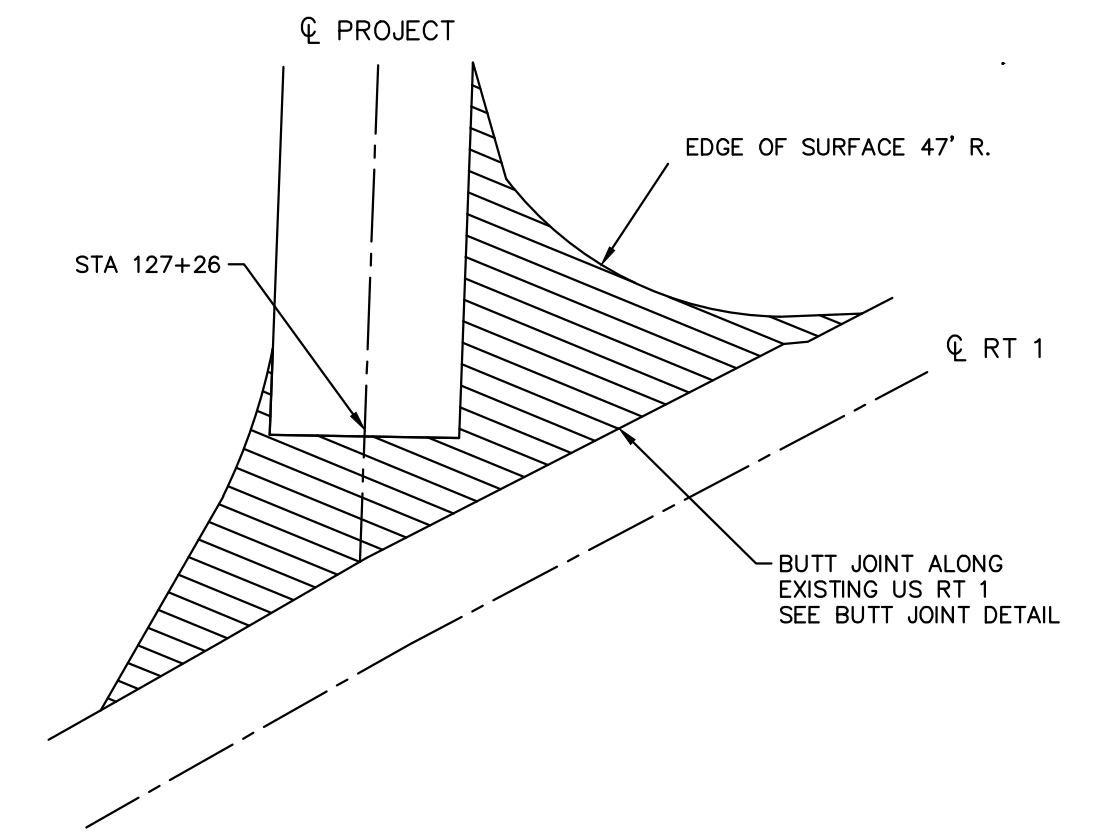
PROFILE LT



SCHEDULE OF SIDEROAD AREAS

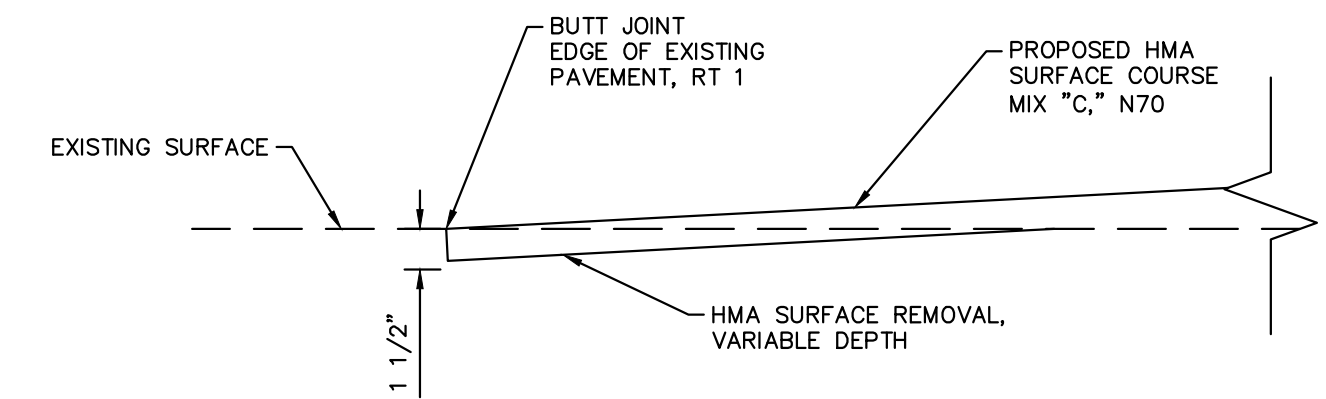
STATION	LOCATION	AREA (SQ FT)	TONS
0+00	RT	1095.6	30.7
0+00	LT	968.0	27.1
53+79	LT	785.7	21.3
85+52	LT	934.8	26.2
117+84	RT	856.0	24.0
127+26	AR	1613.0	45.2
		TOTAL TONNAGE: 174.5	

DETAIL OF STA 127+26 RT 1 INTERSECTION



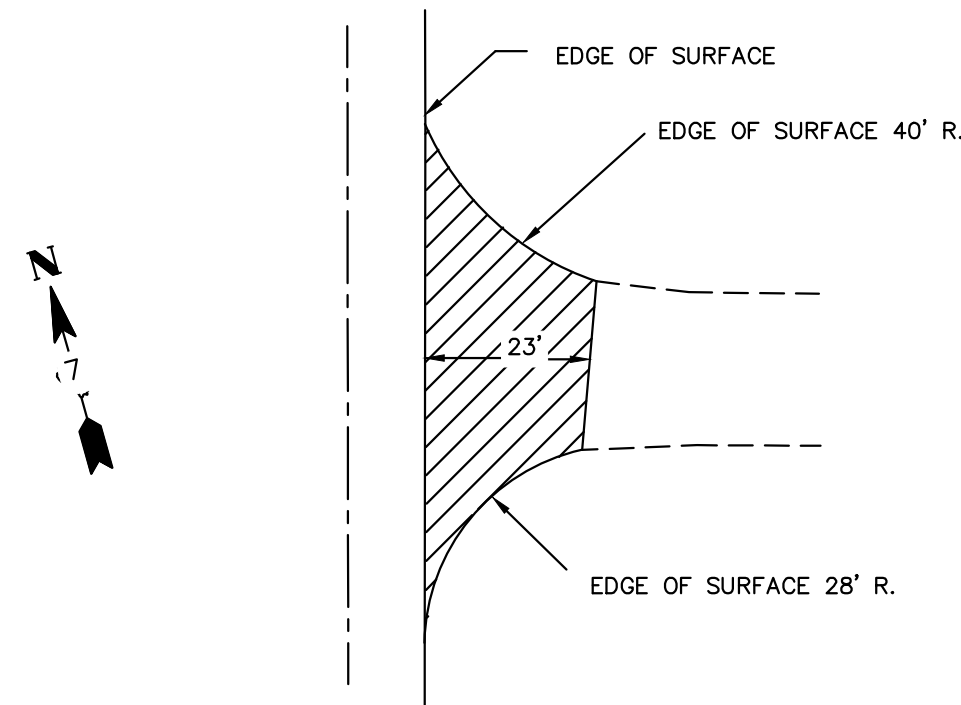
NOTE: THE QUANTITY SHOWN FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70 INCLUDES 45.2 TONS OF MATERIAL FOR THE INTERSECTION APPROACH AND RADII.

BUTT JOINT DETAIL



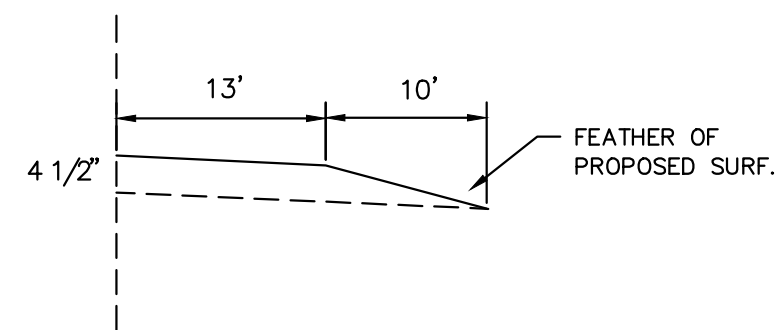
NOTE: COST TO INSTALL BUTT JOINTS AT INTERSECTION NORTH OF COUNTY HIGHWAY 11 (STA -0+39) AND AT INTERSECTION WITH ROUTE 1 SHALL BE INCLUDED IN THE COST OF HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH. TEMPORARY RAMPS AND THEIR REMOVAL WILL ALSO BE INCLUDED.

DETAIL OF INTERSECTION 85+52 LT

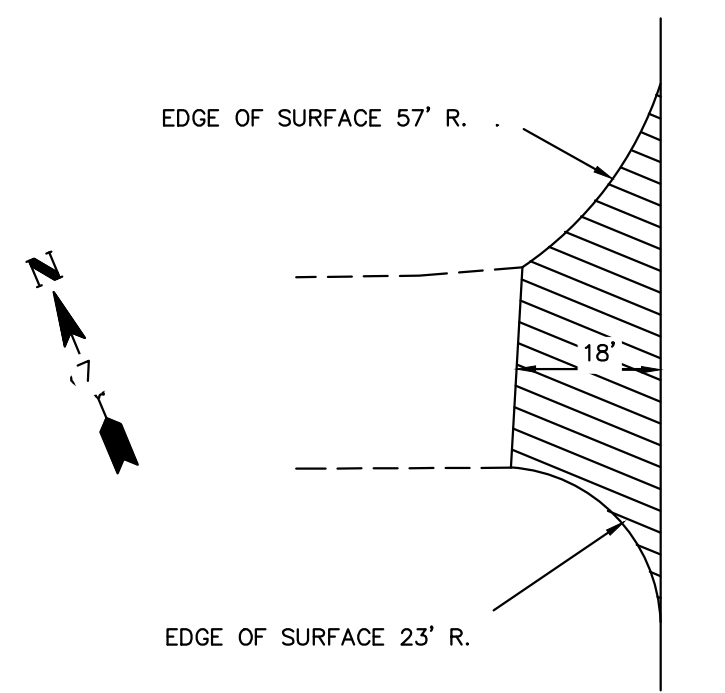


NOTE: THE QUANTITY SHOWN FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70 INCLUDES 26.2 TONS OF MATERIAL FOR THE SIDEROAD LT APPROACH AND RADII.

PROFILE LT

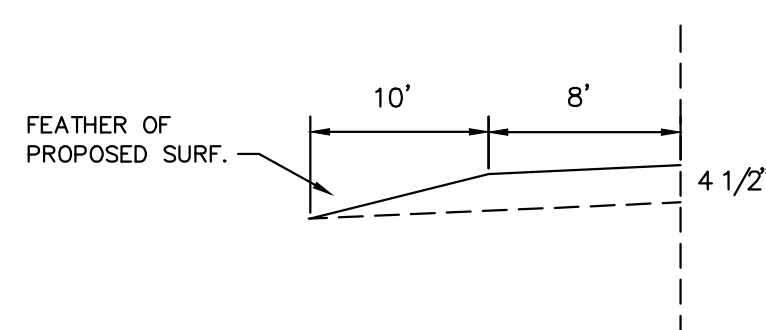


DETAIL OF INTERSECTION 117+84 RT



NOTE: THE QUANTITY SHOWN FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70 INCLUDES 24.0 TONS OF MATERIAL FOR THE SIDEROAD RT APPROACH AND RADII.

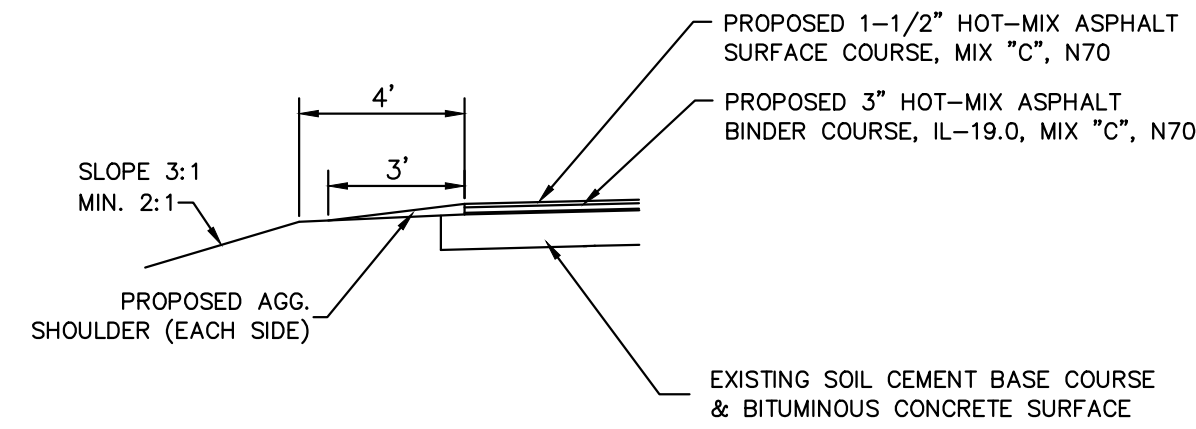
PROFILE RT



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### AGGREGATE SHOULDER DETAIL

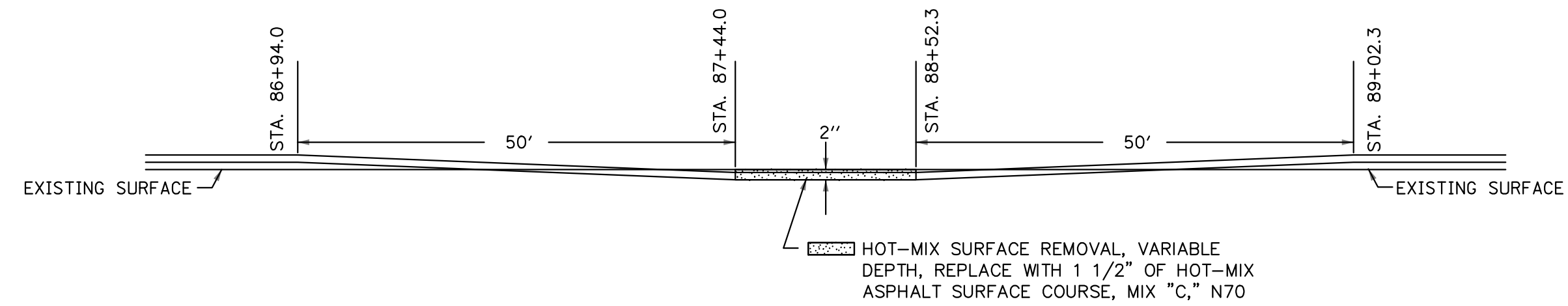


### SCHEDULE OF AGGREGATE SHOULDER TYPE B

STATION	TO	STATION	LOCATION	TONS
0+00		127+26	LT	1,868
0+00		127+26	RT	2,631
TOTAL				4,499

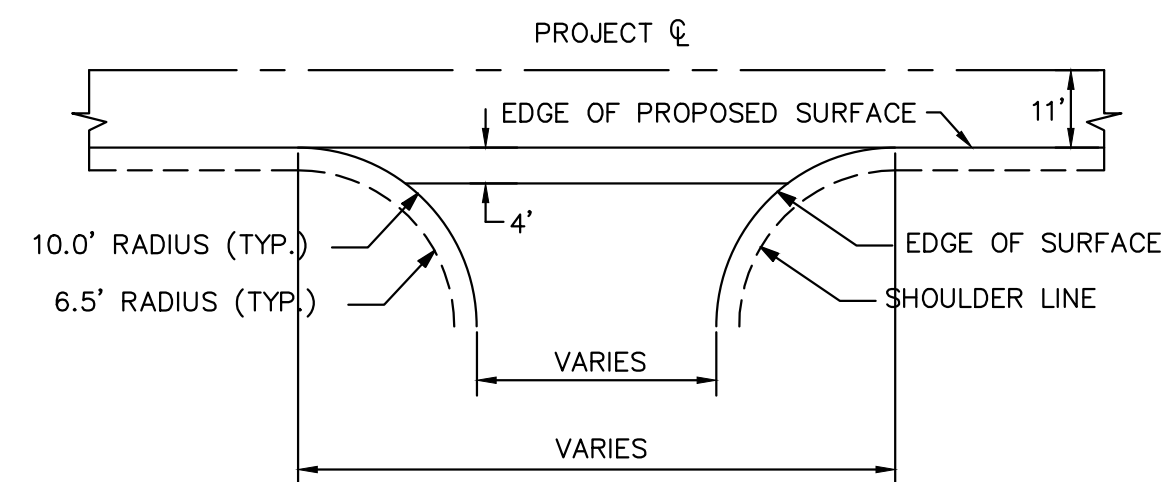
THE ABOVE QUANTITY IS FOR THE ENTIRE SECTION AND IS INCLUDED IN THE QUANTITY FOR AGGREGATE SHOULDERS, TYPE B IN THE SUMMARY OF QUANTITIES.

### SURFACE REMOVAL TRANSITION DETAIL BRIDGE STA. 88+04

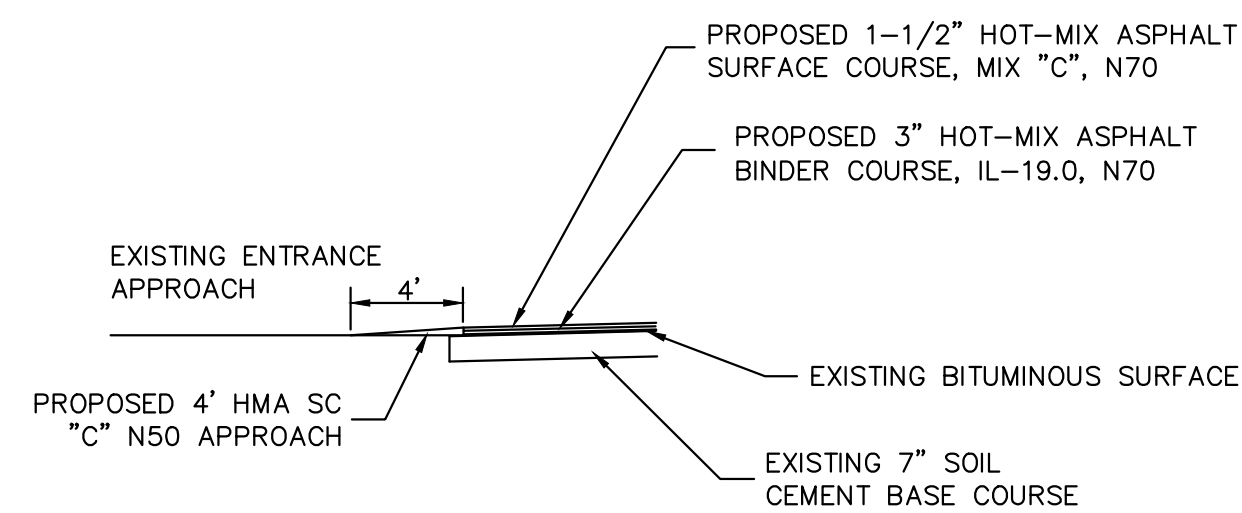


- NOTES:
1. THE HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH, SHALL EXTEND ACROSS THE ENTIRE LENGTH AND WIDTH OF THE BRIDGE. THE HOT-MIX ASPHALT SURFACE REMOVAL SHALL TRANSITION FROM 0" AT STA. 86+94.0 TO 2" AT STA. 87+44.0 AND FROM 2" AT STA. 88+52.3 TO 0" AT STA. 89+02.3.
  2. BOTH LIFTS OF BINDER SHALL TAPER FROM 1 1/2" TO 0" FROM STA. 86+94.0 TO STA. 87+44.0 AND FROM STA. 103+94.8 TO STA. 104+19.8.

### DETAIL OF PRIVATE AND FIELD ENTRANCES



### PRIVATE & FIELD ENTRANCE APPROACH DETAIL



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

NOTE: COMMERCIAL DRIVES SHALL BE ≤ 10% SLOPE TRANSITION.  
NON-COMMERCIAL DRIVES SHALL BE ≤ 15% SLOPE TRANSITION.

### SCHEDULE OF PRIVATE AND FIELD ENTRANCES

STATION	LOCATION	TONS	STATION	LOCATION	TONS
0+86	LT	6.8	78+87	LT	2.2
13+28	RT	1.9	80+86	RT	2.7
14+67	LT	3.3	85+52	LT	6.1
16+10	LT	3.2	89+06	RT	3.4
27+24	RT	2.4	90+96	LT	2.9
35+60	LT	3.9	102+46	RT	2.3
46+86	LT	2.3	113+76	RT	3.6
49+45	RT	3.2	115+08	RT	5.0
53+71	RT	5.5	120+67	LT	1.9
64+65	RT	2.7	121+74	LT	2.5
68+95	LT	4.9	123+98	RT	2.0

TOTAL TONNAGE: 74.9

THE ABOVE QUANTITY IS INCLUDED IN THE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70 IN THE SUMMARY OF QUANTITIES.

### SCHEDULE OF MAILBOX TURNOUTS

STATION	TO	STATION	LOCATION	TONS
18+87		19+57	LT	8.3
27+52		28+22	LT	5.2
35+02		35+72	LT	5.2
53+10		53+80	LT	5.2
125+92		126+62	LT	10.3
125+96		126+66	LT	10.3
TOTAL				44.5

THE ABOVE QUANTITY IS INCLUDED IN THE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70 IN THE SUMMARY OF QUANTITIES.

### PAVEMENT MARKING SCHEDULE

LOCATION	PAINT PAVEMENT MARKING - LINE 4"		
	SOLID		SKIP DASH
	WHITE FOOT	YELLOW FOOT	YELLOW FOOT
<b>Edge Lines - White</b>			
STA0+34 TO STA53+40, LT	5306		
STA54+06 TO STA85+19, LT	3113		
STA85+89 TO STA126+80, LT	4091		
STA0+29 TO STA117+42, RT	11713		
STA118+17 TO STA127+19, RT	902		
<b>No Passing Zone - Yellow</b>			
STA3+82 TO STA28+36, RT		2454	
STA54+41 TO STA81+73, RT		732	
STA90+98 TO STA96+32, RT		534	
STA12+66 TO STA127+26, RT		1460	
STA11+10 TO STA36+80, LT		2570	
STA63+76 TO STA72+87, LT		911	
STA96+81 TO STA108+75, LT		1196	
STA119+18 TO STA127+26, LT		808	
<b>Skip Dash - Yellow</b>			
STA0+00 TO STA11+10			1110
STA28+36 TO STA119+18			9082
<b>TOTAL</b>	<b>25125</b>	<b>10665</b>	<b>10192</b>

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DETAILS OF PIPE CULVERT REPLACEMENT

SCHEDULE OF PIPE CULVERT REMOVAL

STATION	LOCATION	SIZE	LENGTH
1+40	ACROSS ROAD	16"	64.0
64+40	ACROSS ROAD	24"	62.0
108+83	ACROSS ROAD	24"	70.0
124+28	ACROSS ROAD	36"	66.0
126+98	ACROSS ROAD	24"	85.0
TOTALS			347.0

THE ABOVE QUANTITY IS INCLUDED IN PIPE CULVERT REMOVAL IN THE SUMMARY OF QUANTITIES.

SCHEDULE OF PAVEMENT REMOVAL AND REPLACEMENT, SPECIAL

STATION	LOCATION	WIDTH (FT)	SQ YD	TONS
1+40	ACROSS ROAD	22.0	12.2	7.9
64+40	ACROSS ROAD	22.0	12.2	7.9
108+83	ACROSS ROAD	22.0	12.2	7.9
124+28	ACROSS ROAD	22.0	15.9	10.3
126+98	ACROSS ROAD	38.0	21.2	13.6
TOTALS			73.7	47.6

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

SCHEDULE OF PAVED DITCH REMOVAL

STATION	LOCATION	LENGTH (FT)
124+28	RT	15.0
TOTALS		15.0

THE ABOVE QUANTITY REFLECTS APPROXIMATE LOCATION AND ESTIMATED QUANTITIES. THE ACTUAL AREAS SHALL BE LOCATED AND MARKED BY THE ENGINEER PRIOR TO CONSTRUCTION. THE ABOVE QUANTITY IS INCLUDED IN PAVED DITCH REMOVAL IN THE SUMMARY OF QUANTITIES.

RESTORATION OF EXISTING DITCH SHALL INCLUDE ALL NECESSARY SEEDING AND FERTILIZING OF THE DISTURBED AREAS OF THE DITCH AND SHALL BE INCLUDED IN THE COST OF PAVED DITCH REMOVAL.

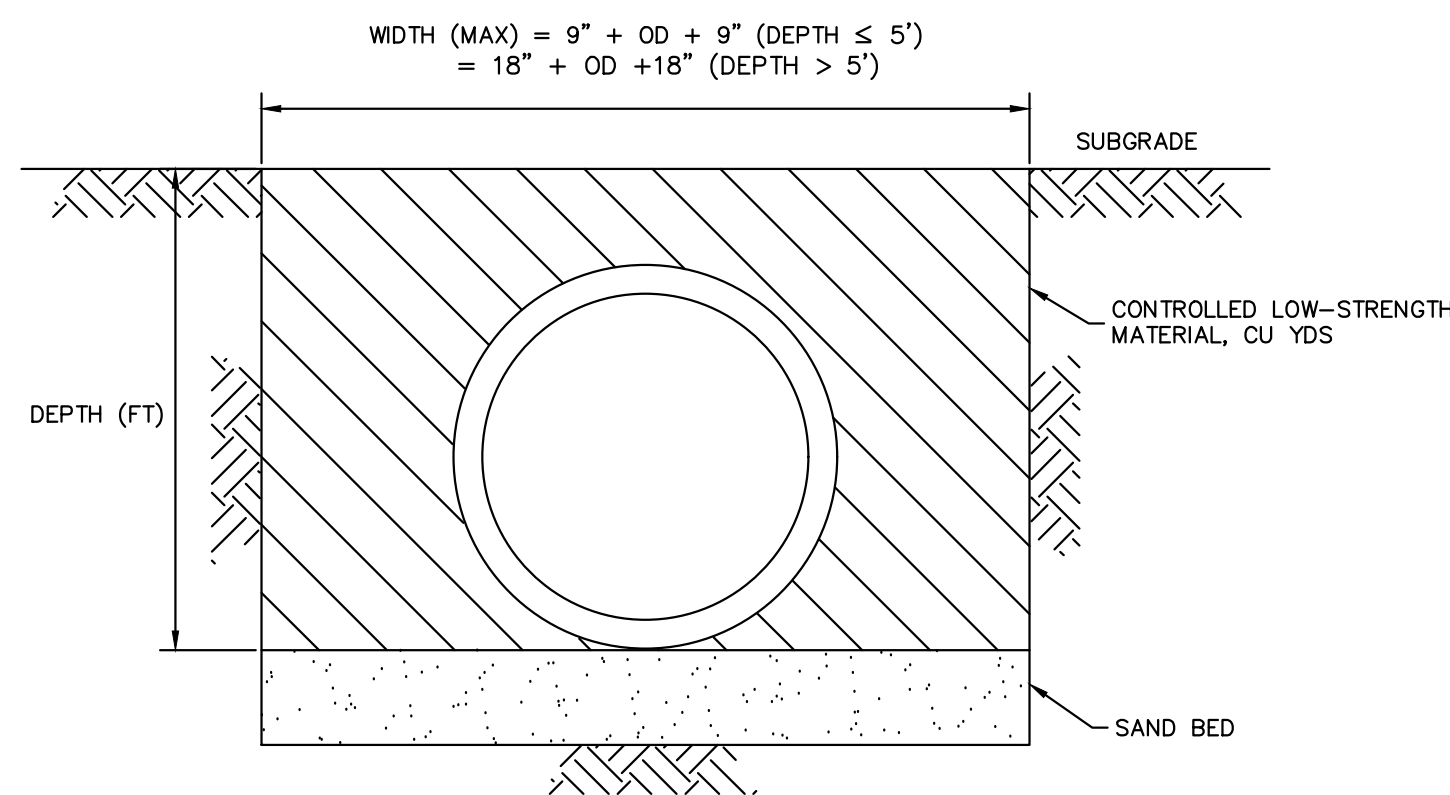
SCHEDULE OF PIPE CULVERTS, CLASS A, TYPE 1

STATION	LOCATION	DESCRIPTION	LENGTH
1+40	ACROSS ROAD	24" RCP	64.0
64+40	ACROSS ROAD	24" RCP	62.0
108+83	ACROSS ROAD	24" RCP	70.0
124+28	ACROSS ROAD	36" RCP	66.0
126+98	ACROSS ROAD	24" RCP	85.0
TOTALS			347.0

THE ABOVE QUANTITIES ARE INCLUDED IN PIPE CULVERTS, CLASS A, TYPE 1 24" AND PIPE CULVERTS, CLASS A, TYPE 1 36" IN THE SUMMARY OF QUANTITIES.

COST TO BACKFILL PIPE CULVERTS SHALL BE INCLUDED IN COST OF CONTROLLED LOW-STRENGTH MATERIAL. SEE DETAIL OF CROSS ROAD CULVERT.

DETAIL OF CROSS ROAD CULVERT



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