

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
807	01-00069-00-RS	WABASH	4	1
FED. ROAD DIST. NO. 7		ILLINOIS	LANCASTER NORTH	
JOB NO. RS-807(108)			CONTRACT # 95527	
LEC JOB # H04H015WB				

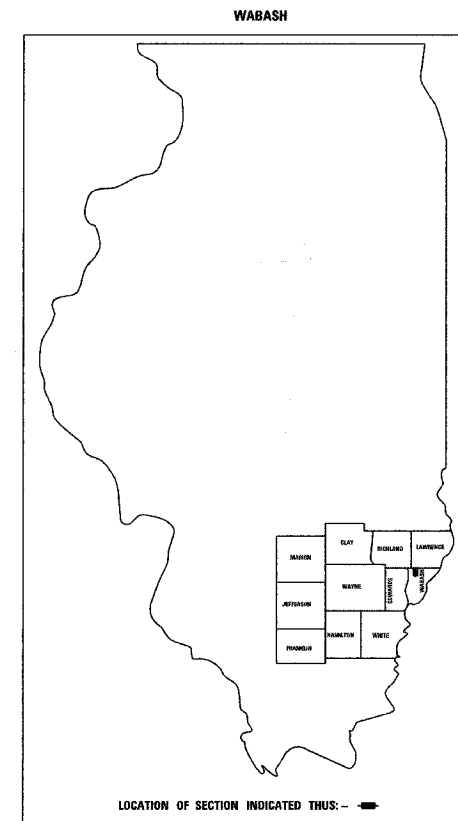
INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	TYPICAL SECTIONS, SUMMARY OF QUANTITIES, GENERAL NOTES, MISCELLANEOUS DETAILS
3	DETAILS OF INTERSECTIONS, SIDEROADS, AND TAPERS
4	SCHEDULES

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

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

**F.A.S. 807 (CH 13) SECTION 01-00069-00-RS WABASH COUNTY
PROJECT RS-807(108) JOB NO. C-97-016-08**

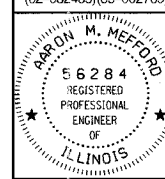


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47670
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(812)-386-7611
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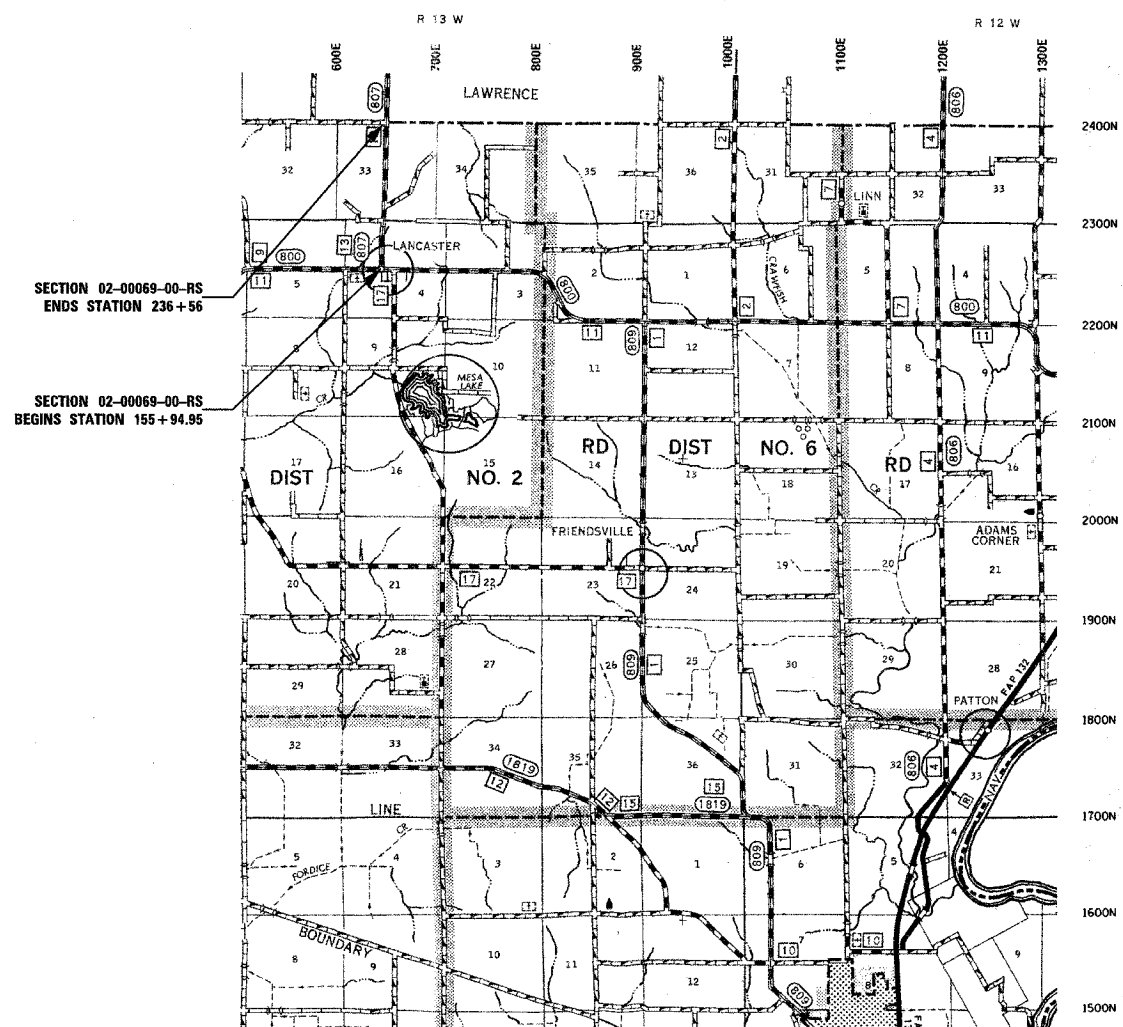
PROFESSIONAL DESIGN FIRM
LAND SURVEY &
PROFESSIONAL ENGINEERING CORPORATION
184-000887
(62-032435)(35-002769)



AARON M. MEFFORD
NAME
Aaron M. Mefford
SIGNATURE
9-28-07
DATE
11-30-09
EXPIRES

STANDARDS

000001-05	STANDARD SYMBOLS, ABBREVIATIONS & PATTERNS
406201-01	MAILBOX TURNOUT
542401	METAL END SECTION FOR PIPE CULVERTS
701006-02	OFF-RD OPERATIONS 2L, 2W, 4.5 m (15') TO PAVEMENT EDGE FOR SPEEDS ≥ 45 MPH
701301-02	LANE CLOSURE 2L, 2W, SHORT TIME OPERATIONS
701306-01	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS - DAY ONLY FOR SPEEDS ≥ 45 MPH
701311-02	LANE CLOSURE 2L, 2W MOVING OPERATIONS - DAY ONLY
701336-04	LANE CLOSURE 2L, 2W, WORK AREAS IN SERIES FOR SPEEDS ≥ 45 MPH
701901	TRAFFIC CONTROL DEVICES
780001-01	TYPICAL PAVEMENT MARKINGS
781001-02	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS



LAYOUT

APPROXIMATE SCALE 1 INCH = 1 MILE



GROSS LENGTH	8061.05 FT	1.5267 MILES
OMISSION	0 FT	0 MILES
NET LENGTH	8061.05 FT	1.5267 MILES

CONTRACT# 95527
DESIGN CLASS - MAJOR COLLECTOR
CURRENT A.D.T. = 700
DESIGN SPEED = 50 MPH

**J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123**

APPROVED 9-28 20 07
Aaron M. Mefford
COUNTY ENGINEER

PASSED 10-31 20 07
Maurice L. Casel
DISTRICT SEVEN ENGINEER OF
LOCAL ROADS & STREETS

Releasing For
Bid Based on
Limited Review 10-31 20 07
Christian M. Paedard
DEPUTY DIRECTOR OF HIGHWAYS,
REGION FOUR ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
887	01-00069-00-RS	WABASH	4	2
FED. ROAD DIST. NO. 7		ILLINOIS	LANCASTER NORTH	
JOB NO. RS-807(108)		CONTRACT # 95527		

SUMMARY OF QUANTITIES

QUANTITY	UNIT	ITEM	CODE NUMBER
600.00	FOOT	GRADING AND SHAPING DITCHES	21400100
1078.00	GAL	BITUMINOUS MATERIALS (PRIME COAT)	40600100
1842.00	TON	LEVELING BINDER (MACHINE METHOD) N70	40600635
1720.00	TON	HOT-MIX ASPHALT SURFACE COURSE, MIX "C" N50	40603310
17913.50	SO YD	AREA REFLECTIVE CRACK CONTROL TREATMENT	44300100
745.00	TON	AGGREGATE SHOULDERS, TYPE B	48101200
44.00	FOOT	PIPE CULVERTS, CLASS C, TYPE 2 24"	542C1069
94.00	FOOT	PIPE CULVERTS, CLASS C, TYPE 2 30"	542C1075
60.00	FOOT	PIPE CULVERTS, CLASS C, TYPE 2 36"	542C1081
141.00	FOOT	PIPE CULVERTS, CLASS C, TYPE 2 48"	542C1093
2.00	EACH	METAL END SECTIONS 24"	54215559
4.00	EACH	METAL END SECTIONS 30"	54215565
2.00	EACH	METAL END SECTIONS 36"	54215571
4.00	EACH	METAL END SECTIONS 48"	54215583
367.40	CU YD	CONTROLLED LOW-STRENGTH MATERIAL	59300100
1.00	L SUM	MOBILIZATION	67100100
1.00	L SUM	TRAFFIC CONTROL AND PROTECTION STANDARD 701306	70100460
1.00	L SUM	TRAFFIC CONTROL AND PROTECTION STANDARD 701336	70100600
3203.00	FOOT	SHORT-TERM PAVEMENT MARKING	70300100
21580.00	FOOT	PAINT PAVEMENT MARKING-LINE 4"	78001110 *
100.00	EACH	RAISED REFLECTIVE PAVEMENT MARKER	78100100 *
801.00	FOOT	SHORT-TERM PAVEMENT MARKING REMOVAL	XX003140
76.00	TON	PAVEMENT REMOVAL AND REPLACEMENT (SPECIAL)	XX127400

* SPECIALTY ITEMS

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AARON M. MEFFORD
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GENERAL NOTES:

THIS SECTION CONSISTS OF PAVEMENT REMOVAL AND REPLACEMENT SPECIAL, LEVELING BINDER (MACHINE METHOD), N70, AND HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50, AGGREGATE SHOULDERS, AND OTHER MISCELLANEOUS ITEMS NECESSARY TO COMPLETE THE PROJECT. ALL IN ACCORDANCE WITH THE PLANS, SPECIAL PROVISIONS AND "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2007.

THE EXISTING GRADE, ALIGNMENT, DRAINAGE STRUCTURES, BASE AND SURFACE WERE CONSTRUCTED UNDER SECTIONS 30-G AND 30-O, 83-00030-00-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	3.56 %
MINIMUM STOPPING SIGHT DISTANCE	525 FT
DESIGN SPEED	50 MPH
CURRENT ADT	700 VPD
DESIGN ADT (20 YEAR)	900 VPD

THE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 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", N50 ALLOWS 89.0 TON FOR THE INTERSECTIONS, SIDEROADS, AND TAPERS; 119.3 TON FOR THE ENTRANCES; 25.8 TON FOR THE MAILBOX TURNOUTS; AND 1485.5 TON FOR THE 1 1/2" HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50.

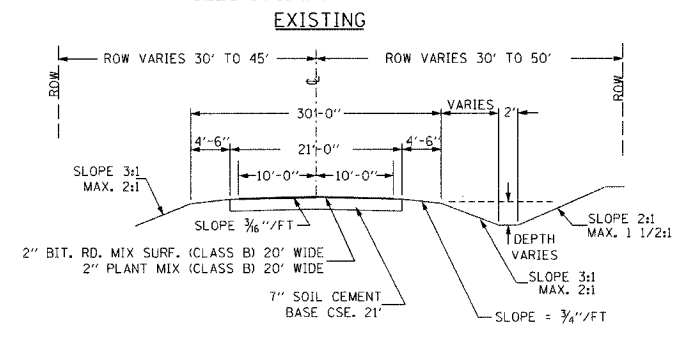
A HOT-MIX ASPHALT TAPER OF 0" TO 3" SHALL BE CONSTRUCTED FROM STATION 155+94.95 TO STATION 156+19.95 AND 3" TO 0" FROM STATION 235+77.8 TO STATION 236+02.8.

THE FOLLOWING RATES HAVE BEEN USED TO CALCULATE PLAN QUANTITIES:

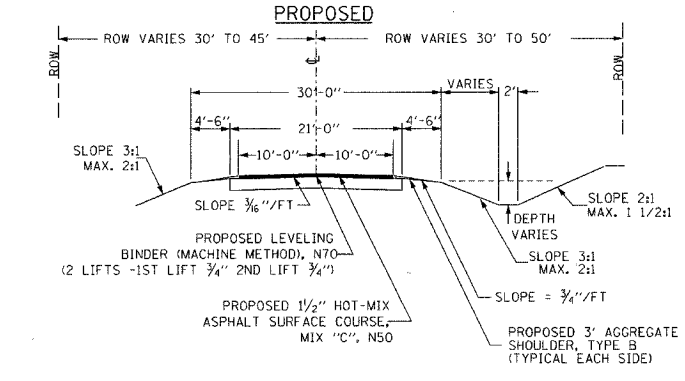
AGGREGATE SHOULDERS TY. B	1.8 T / CU YD
HOT-MIX ASPHALT	0.0560 T / SQ YD + INCH
AGGREGATE PRIME COAT	0.001 T / SQ YD
BITUMINOUS MATERIAL (PRIME COAT)	0.05 GAL / SQ YD

THE QUANTITY SHOWN IN THE SUMMARY OF QUANTITIES FOR GRADING AND SHAPING DITCHES ALLOWS 50 FOOT AT EACH END OF ALL PIPES TO BE REPLACED AT STATIONS SHOWN IN SCHEDULE OF AIR PIPE CULVERTS, CLASS C.

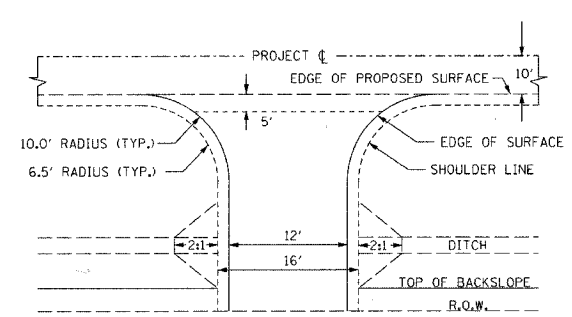
TYPICAL CROSS SECTION EXISTING



TYPICAL CROSS SECTION PROPOSED

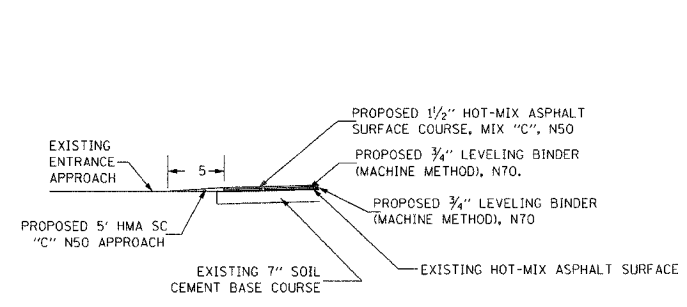


DETAIL OF PRIVATE AND FIELD ENTRANCES

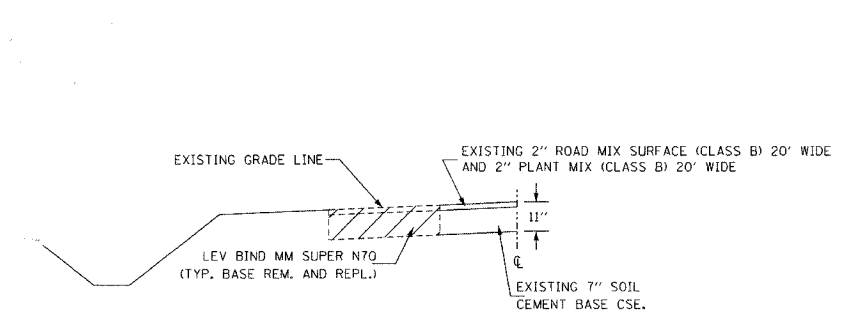


NOTE: THE 5' AREA FROM THE EDGE OF SURFACE, AS SHOWN ABOVE, SHALL BE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 FOR THE PRIVATE ENTRANCES AND THE FIELD ENTRANCES. THIS QUANTITY IS INCLUDED IN THE QUANTITY FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50.

PRIVATE & FIELD ENTRANCE APPROACH DETAIL

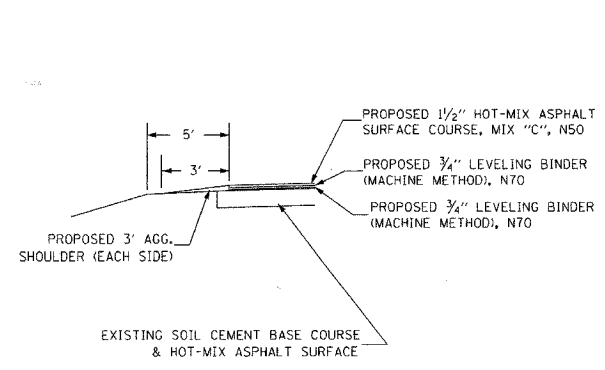


DETAIL OF PAVEMENT REMOVAL AND REPLACEMENT SPECIAL



NOTE: IN THE TYPICAL DETAIL ABOVE THE DISTANCE FROM THE CENTERLINE LEFT OR RIGHT AND THE WIDTH OF PAVEMENT REMOVAL AND REPLACEMENT VARIES. SEE SCHEDULE OF PAVEMENT REMOVAL AND REPLACEMENT SPECIAL FOR PROPOSED LOCATIONS.

AGGREGATE SHOULDER DETAIL



UTILITIES

- MT. CARMEL PULIC UTILITY
316 MARKET STREET
MT. CARMEL, IL 62863
618-262-5151
- NORRIS ELECTRIC COOP.
RT. 130 SOUTH
NEWTON, IL 62448
618-299-6101
- RURAL WABASH WATER DISTRICT
P.O. BOX 55
LANCASTER, IL 62855
618-665-3311
- VERIZON TELEPHONE CO.
225 EAST CHESTNUT
ONLEY, IL 62450
618-395-6181
- J.U.L.I.E.
800-892-0123

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JOB NO. RS-807(108)			CONTRACT # 95527	

LEC JOB # H04R015WB

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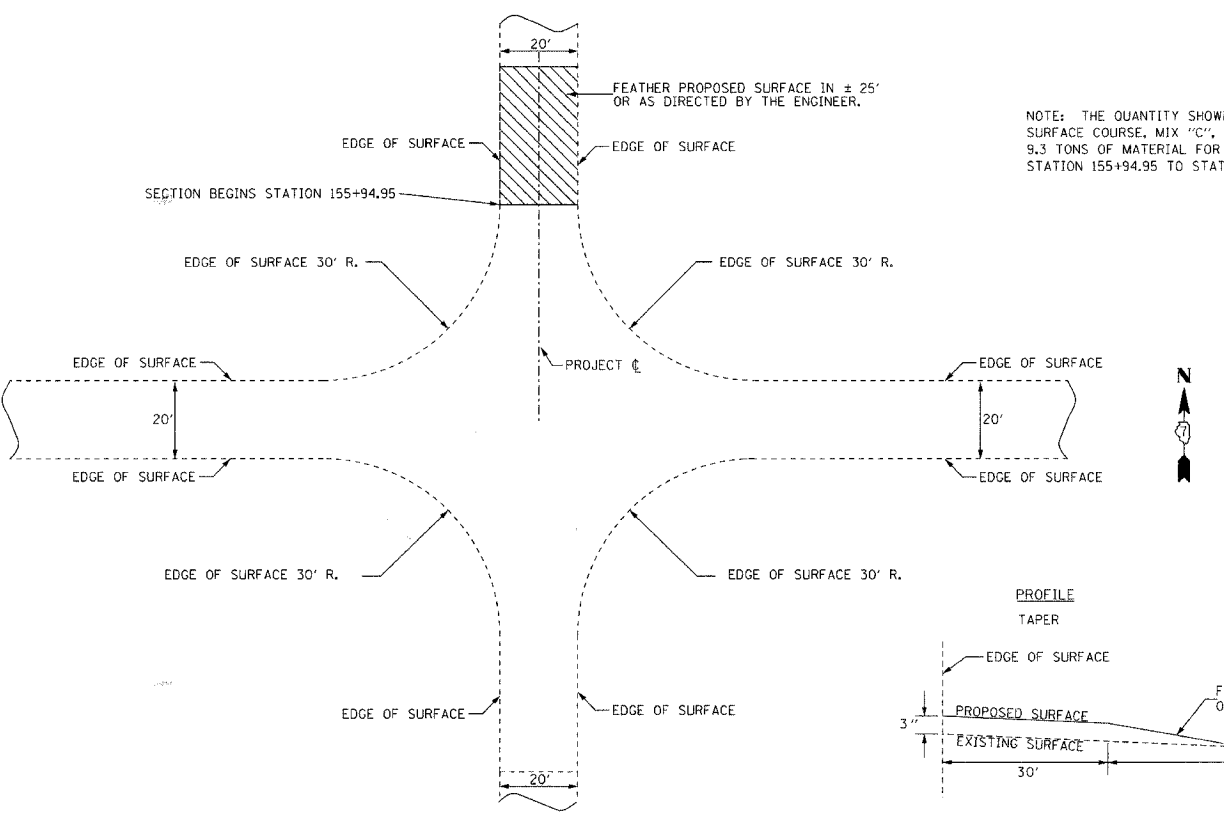


AARON M. MEFFORD
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DETAILS OF SURFACING AT INTERSECTIONS AND SIDEROADS

DETAIL OF INTERSECTION

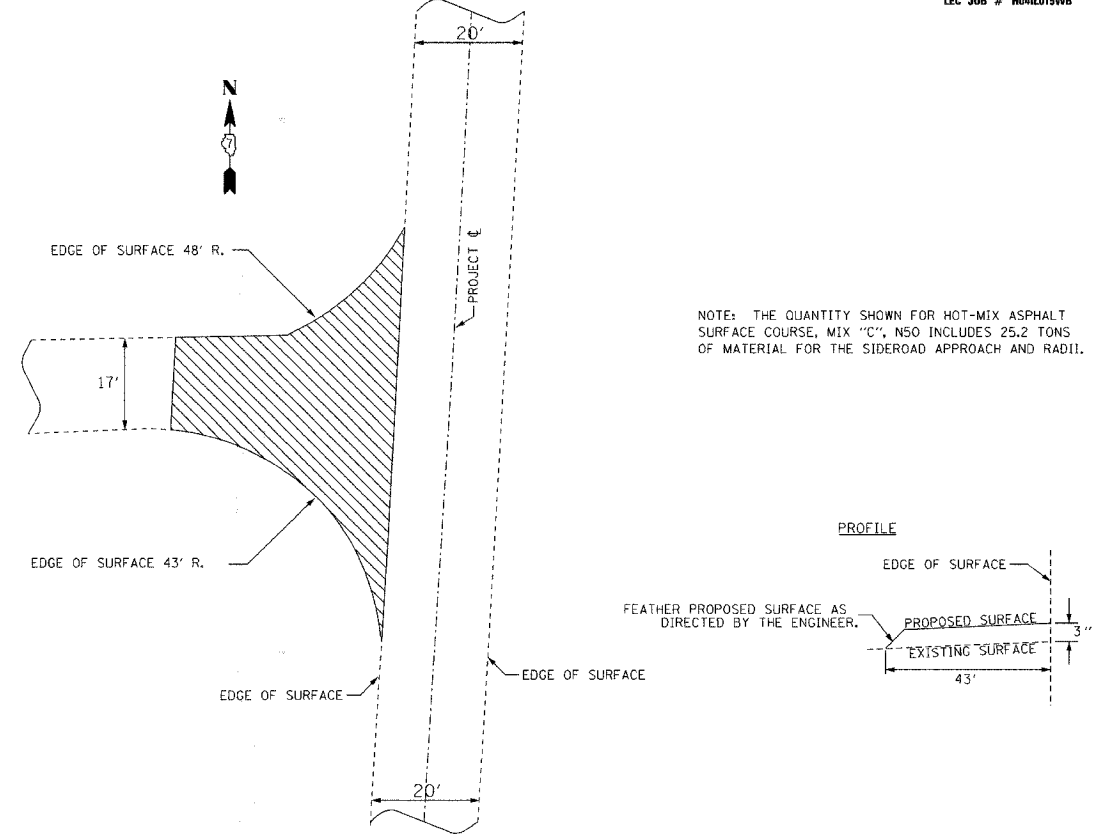
STATION 156+40



NOTE: THE QUANTITY SHOWN FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", NSO INCLUDES 9.3 TONS OF MATERIAL FOR THE TAPER FROM STATION 155+94.95 TO STATION 156+19.95

DETAIL OF SIDEROAD

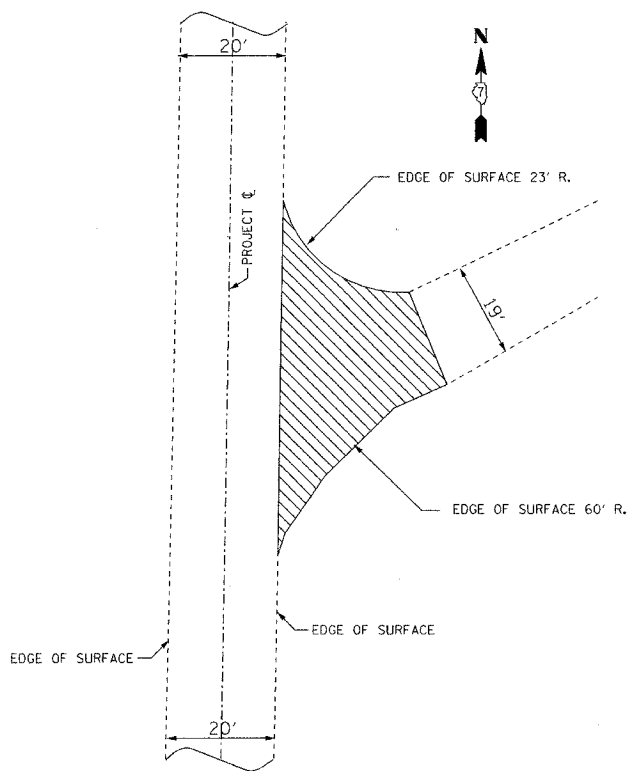
STATION 182+42



NOTE: THE QUANTITY SHOWN FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", NSO INCLUDES 25.2 TONS OF MATERIAL FOR THE SIDEROAD APPROACH AND RADII.

DETAIL OF SIDEROAD

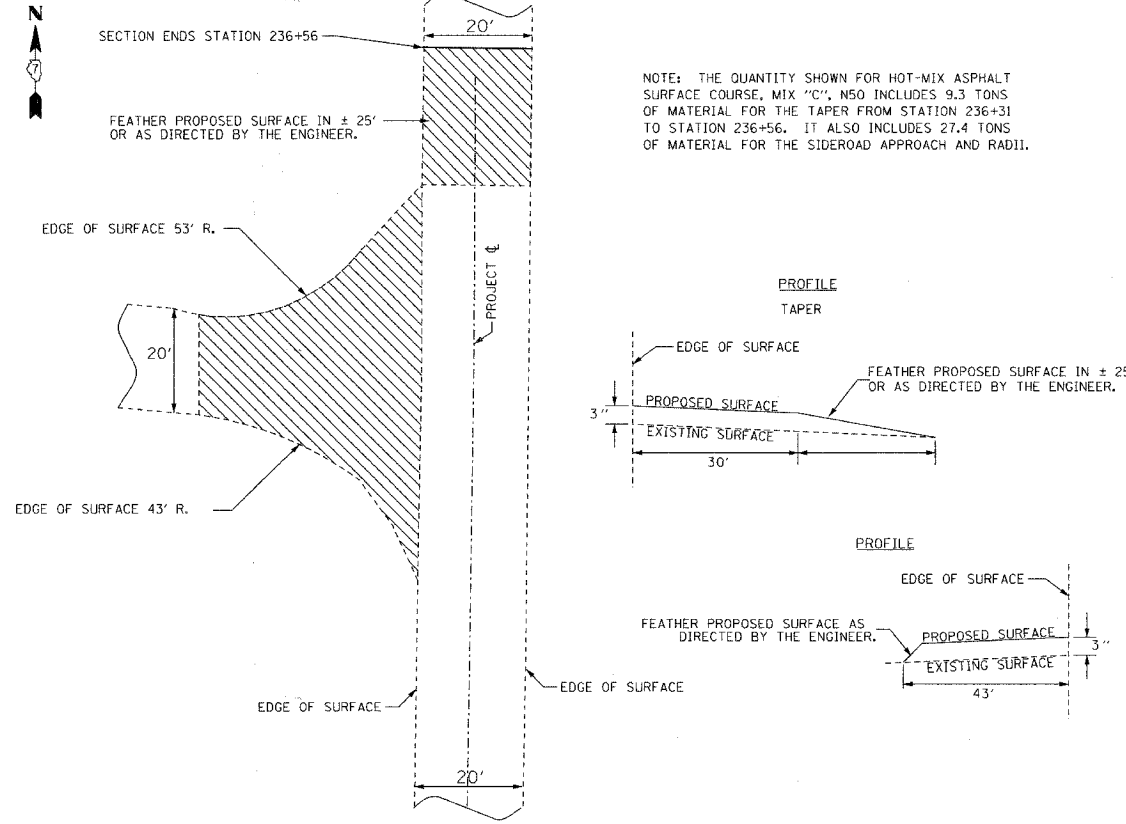
STATION 189+67



NOTE: THE QUANTITY SHOWN FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", NSO INCLUDES 17.7 TONS OF MATERIAL FOR THE SIDEROAD APPROACH AND RADII.

DETAIL OF SIDEROAD

STATION 236+00



NOTE: THE QUANTITY SHOWN FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", NSO INCLUDES 9.3 TONS OF MATERIAL FOR THE TAPER FROM STATION 236+31 TO STATION 236+56. IT ALSO INCLUDES 27.4 TONS OF MATERIAL FOR THE SIDEROAD APPROACH AND RADII.

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807	01-0069-00-RS	WABASH	4	4
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JOB NO. RS-807(108)			CONTRACT # 95527	

LEC JOB # H041015WB

SCHEDULE OF PAVEMENT MARKINGS

STATION	TO	STATION	LOCATION	LENGTH - FOOT
155+94.95		236+02.80	CENTERLINE	8008
155+94.95		189+48	EDGELINE	3353
189+85		236+02.80	EDGELINE	4618
155+94.95		182+22	EDGELINE	2627
182+56		235+80	EDGELINE	5324
156+38		159+20	NO PASSING	282
183+96		190+98	NO PASSING	702
188+88		199+21	NO PASSING	1033
205+22		214+02	NO PASSING	880
211+45		220+21	NO PASSING	876
				TOTAL 21,580

THE ABOVE QUANTITY IS SHOWN IN THE PAVEMENT MARKING-LINE 4" IN THE SUMMARY OF QUANTITIES.

SCHEDULE OF MAILBOX TURNOUTS

STATION	LOCATION	EST. QUANTITY ALLOWED TONS
164+94	RT.	2.8
168+40	RT.	2.2
179+90	RT.	2.1
187+62	RT.	3.6
201+94	RT.	3.0
204+94	RT.	3.4
212+77	RT.	2.3
216+80	RT.	2.6
223+68	RT.	2.5
233+82	RT.	1.3
TOTAL		25.8

THE ABOVE QUANTITY IS INCLUDED IN THE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 IN THE SUMMARY OF QUANTITIES.

SCHEDULE OF PRIVATE AND FIELD ENTRANCES

STATION	LOCATION	BC SC SUPER "C" N50 (IN TONS)
156+04	RT	2.6
156+20	LT	21.2
157+29	RT	7.0
158+00	RT	0.9
158+84	RT	1.7
160+53	LT	2.4
161+94	RT	2.7
165+11	RT	1.4
168+55	LT	3.0
168+78	RT	2.5
169+00	RT	3.1
169+65	LT	2.0
172+77	RT	1.8
175+44	LT	4.0
176+93	LT	3.0
177+00	RT	3.4
179+97	LT	2.1
182+26	LT	3.1
182+62	RT	5.9
183+04	LT	2.4
188+10	RT	5.0
191+50	LT	2.3
199+14	RT	2.6
202+27	LT	4.1
205+23	RT	3.3
212+50	RT	1.5
212+60	LT	2.4
216+76	RT	2.7
220+00	RT	2.6
221+50	LT	1.8
221+53	RT	1.6
223+50	RT	2.5
223+95	LT	2.8
225+87	RT	2.3
233+69	RT	2.3
235+28	RT	3.2
TOTAL		119.3 TON

THE ABOVE QUANTITY IS INCLUDED IN THE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 IN THE SUMMARY OF QUANTITIES.

SCHEDULE OF PAV'T REMOVAL AND REPLACEMENT SPECIAL

STATION	TO	STATION	LOCATION	WIDTH (FEET)	SQ. YD.	TON
159+39			AT PIPE CULVERT	20.5	12.5	7.7
204+29			AT PIPE CULVERT	20.5	17.1	10.5
208+61			AT PIPE CULVERT	20.5	14.8	9.1
213+61		214+11	RT. EDGE	5.0	27.8	17.1
219+66			AT PIPE CULVERT	20.5	13.7	8.4
223+02			AT PIPE CULVERT	20.5	13.7	8.4
231+98			AT PIPE CULVERT	20.5	23.8	14.6
TOTALS					123.3	75.9

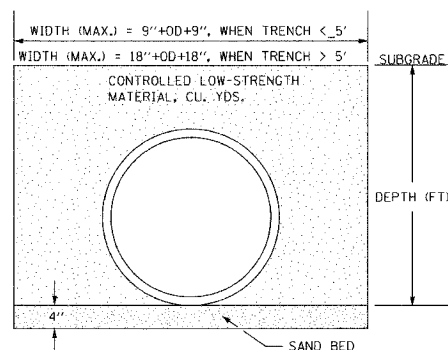
THE SCHEDULE ABOVE REFLECTS APPROXIMATE LOCATION AND ESTIMATED QUANTITIES. THE ACTUAL AREAS SHALL BE LOCATED AND MARKED BY THE ENGINEER PRIOR TO CONSTRUCTION. THE ABOVE QUANTITY IS INCLUDED IN PAVEMENT REMOVAL AND REPLACEMENT SPECIAL IN THE SUMMARY OF QUANTITIES.

SCHEDULE OF AGGREGATE SHOULDER STONE IN TANGENT

STATION	TO	STATION	LOCATION	ALLOWED TONS EST. QUANTITY
155+94.95		236+02.80	LT.	372.6
155+94.95		236+02.80	RT.	372.6
TOTAL				745.2

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

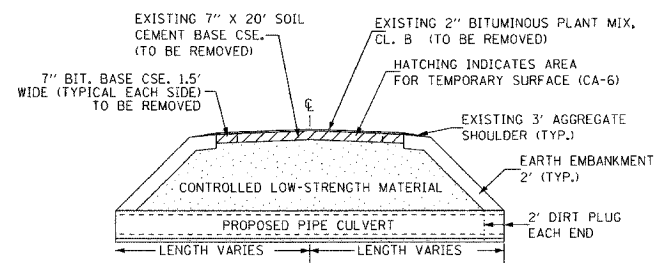
DETAIL OF ACROSS ROAD REINFORCED CONCRETE CULVERT PIPES



PROPOSED TYPICAL CROSS SECTION AT PIPE CULVERTS

AT PIPE CULVERTS

FOR PAVEMENT REMOVAL AND REPLACEMENT (SPECIAL) SEE SCHEDULE



NOTE: 4" SAND BED REQUIRED UNDER PIPE

SCHEDULE OF AR PIPE CULVERTS, CLASS C

STATION	SIZE	LENGTH	TYPE	CONTROLLED LOW-STRENGTH MATERIAL	TEMPORARY SURFACE (CA6)
159+39	24"	44'	2	25.9 CY	6.9 T
204+29	48"	50'	2	47.6 CY	9.4 T
208+61	36"	60'	2	79.5 CY	8.1 T
219+66	30"	50'	2	49.8 CY	7.5 T
223+02	30"	44'	2	31.7 CY	7.5 T
231+98	48"	91'	2	133.0 CY	13.1 T
TOTAL				367.4 CY	TOTAL 52.5 T

CULVERT FLOWLINES SHALL MATCH EXISTING FLOWLINES

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