

COUNTY	ROUTE	SECTION	SHT. NO.
ADAMS	FAS 1598	14-00065-01-RS	1
COVER SHEET			
TOTAL NO. SHEETS - 9			

INDEX OF SHEETS

- | SHEET NO. | SHEET |
|-----------|---|
| 1 | TITLE SHEET |
| 2 | SUMMARY OF QUANTITIES
GENERAL NOTES
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| 3 | TYPICAL CROSS SECTIONS
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STANDARDS

- STANDARD 701011-04
- STANDARD 701306-03
- STANDARD 701311-03
- STANDARD 701901-05
- STANDARD 780001-05

THE PROPOSED IMPROVEMENT CONSISTS OF OVERLAYING THE EXISTING ROADWAY WITH 3/4" LEVELING BINDER (MACHINE METHOD) AND 1 1/2" POLY. HMA SURFACE COURSE, PLACEMENT OF AGGREGATE WEDGE SHOULDERS, INCIDENTAL SURFACING AND PAVEMENT MARKINGS.

PLAN SHEETS	
PROFILE HORZ.	
PROFILE VERT.	
CROSS SECTIONS	

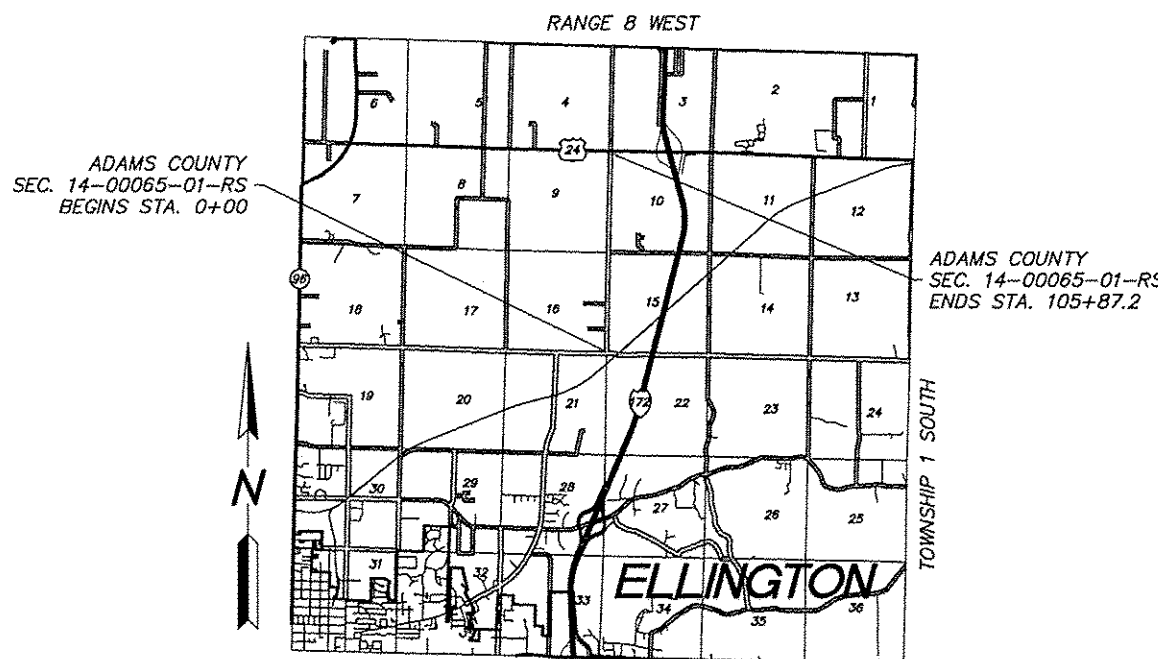
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES, IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

UTILITIES:

- J.U.L.I.E. 1-800-892-0123
- AT&T SPRINGFIELD, IL
- ADAMS ELECTRIC CO-OP CAMP POINT, IL
- MILL CREEK WATER DISTRICT QUINCY, IL
- ENBRIDGE PIPELINE QUINCY, IL
- AMEREN ILLINOIS QUINCY, IL

JOB NO. C-96-218-15
CONTRACT NO. 93677

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED
SURFACE TRANSPORTATION / RURAL PROGRAM FUNDS
FAS 1598 (C.H. 27) SEC. 14-00065-01-RS ADAMS COUNTY
PROJECT NO. RS-1598(102)
JOB NO. C-96-218-15



LOCATION MAP



DESIGN DESIGNATION:
COLLECTOR - ADT 500
DESIGN SPEED - 50 M.P.H.

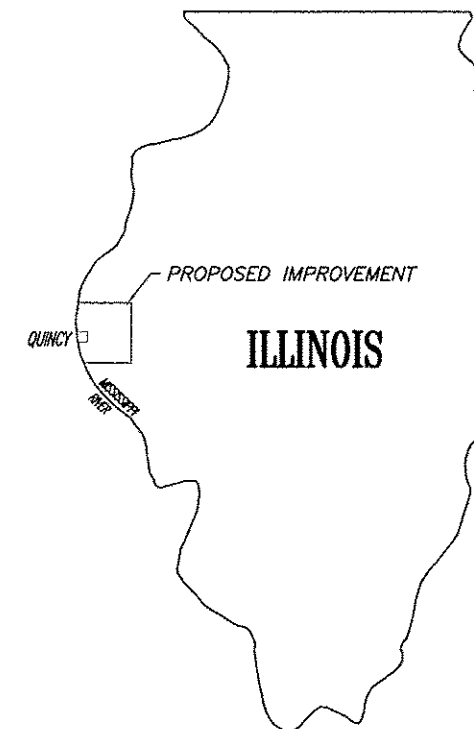
SUMMARY OF LENGTH:

GROSS LENGTH:	
FAS 1598 - STA. 0+00 TO STA. 105+87.2 =	10,587.20 FT.
FAS 1598 - STA. 158+40 TO STA. 160+66 =	226.00 FT.
FAS 2569 - STA. 160+66 TO STA. 166+38 =	572.00 FT.
	<u>11,385.20 FT.</u>

NET LENGTH TO BE IMPROVED = 11,385.20 FT. = 2.156 MILES

THESE PLANS WERE PREPARED BY ME OR A FULL TIME MEMBER OF MY STAFF WORKING UNDER MY PERSONAL SUPERVISION.

SUBMITTED BY James R. Zanten DATE 2/19/16
COUNTY ENGINEER
LICENSE NO. 062-044792
LIC. EXPIRES 11/30/2017



PROPOSED IMPROVEMENT MARKED THUS —

APPROVED 2/19/16
James R. Zanten
COUNTY ENGINEER

PASSED February 26, 2016
Ken Dehambro
DISTRICT ENGINEER OF CONSTRUCTION

PASSED 2/26/16
Jeff Chalmers
DISTRICT ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW 2/26/16
Jeffrey M. Southess
DEPUTY DIRECTOR OF HIGHWAYS
REGION FOUR ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREPARED BY
ADAMS COUNTY HIGHWAY DEPARTMENT
101 NORTH 54th STREET, QUINCY, ILLINOIS

COUNTY	ROUTE	SECTION	SHT. NO.
ADAMS	FAS 1598	14-00065-01-RS	2

GENERAL NOTES
TRAFFIC CONTROL AND PROTECTION
SUMMARY OF QUANTITIES

GENERAL NOTES

- WHERE SECTION OR SUB-SECTION STONES, PROPERTY PINS, USGS BENCH MARK MONUMENTS, AND U.S. ARMY CORPS OF ENGINEERS SURVEY MARKERS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH STONES AND MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS UNTIL AN OWNER, AN AUTHORIZED SURVEYOR OR THEIR REPRESENTATIVE HAS WITNESSED OR OTHERWISE REFERENCED THE PROPERTY MARKS LOCATION.
- ALL PRIVATELY OWNED UTILITIES, UNLESS OTHERWISE SPECIFIED, WILL BE MOVED BY THEIR RESPECTIVE OWNERS WHERE REQUIRED. THE FOLLOWING UTILITY COMPANIES MAY HAVE FACILITIES WITHIN THE LIMITS OF CONSTRUCTION:

MILL CREEK WATER DISTRICT ENBRIDGE (PETROLEUM)	COMCAST (CABLEVISION) ADAMS ELECTRIC COOP	AMEREN ILLINOIS (GAS) AT&T (TELEPHONE)
---	--	---
- THE NOMINAL THICKNESS FOR AGGREGATE SURFACE COURSE IS SHOWN ON THE TYPICAL SECTION, STANDARDS, SCHEDULES OR SPECIAL DETAILS. THE CONSTRUCTED THICKNESS OF THE ABOVE ITEMS SHALL NOT BE LESS THAN 90% OF THE NOMINAL THICKNESS AT ANY LOCATION.
- THE UTILITY LOCATIONS, IF MARKED ON THE PLANS, ARE FOR REFERENCE ONLY, AND ARE SHOWN FOR CONTRACTOR INFORMATIONAL USE ONLY, AND ARE NOT TO BE REFERENCED FOR CONSTRUCTION PURPOSES. THE IMPLIED PRESENCE OR ABSENCE OF UTILITIES IS NOT TO BE CONSTRUED BY THE OWNER, ENGINEER, CONTRACTOR, OR SUBCONTRACTORS TO BE AN ACCURATE AND COMPLETE REPRESENTATION OF UTILITIES THAT MAY OR MAY NOT EXIST ON THE CONSTRUCTION SITE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE LOCATION AND ELEVATION OF ALL EXISTING UTILITIES AND TO NOTIFY ALL UTILITY COMPANIES PRIOR TO THE BEGINNING OF CONSTRUCTION. THE REROUTING, DISCONNECTION, PROTECTION, ETC. OF ANY UTILITIES MUST BE COORDINATED BETWEEN THE CONTRACTOR, UTILITY AND OWNER. SITE SAFETY, INCLUDING THE AVOIDANCE OF HAZARDS ASSOCIATED WITH BURIED AND ABOVE GROUND UTILITIES REMAINS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THIS WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- ALL DISTURBED AREAS WITHIN THE RIGHT-OF-WAY SHALL BE SEEDED, FERTILIZED, AND MULCHED AS SHOWN IN THE PLANS AND AS DIRECTED BY THE ENGINEER.
- ANY EXISTING ROAD SIGNS THAT INTERFERE WITH CONSTRUCTION WILL BE REMOVED OR RELOCATED AS DIRECTED BY THE ENGINEER. AFTER THE CONSTRUCTION IS COMPLETED, THE CONTRACTOR WILL REPLACE THE SIGNS AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPERATELY BUT SHALL BE INCLUDED IN THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

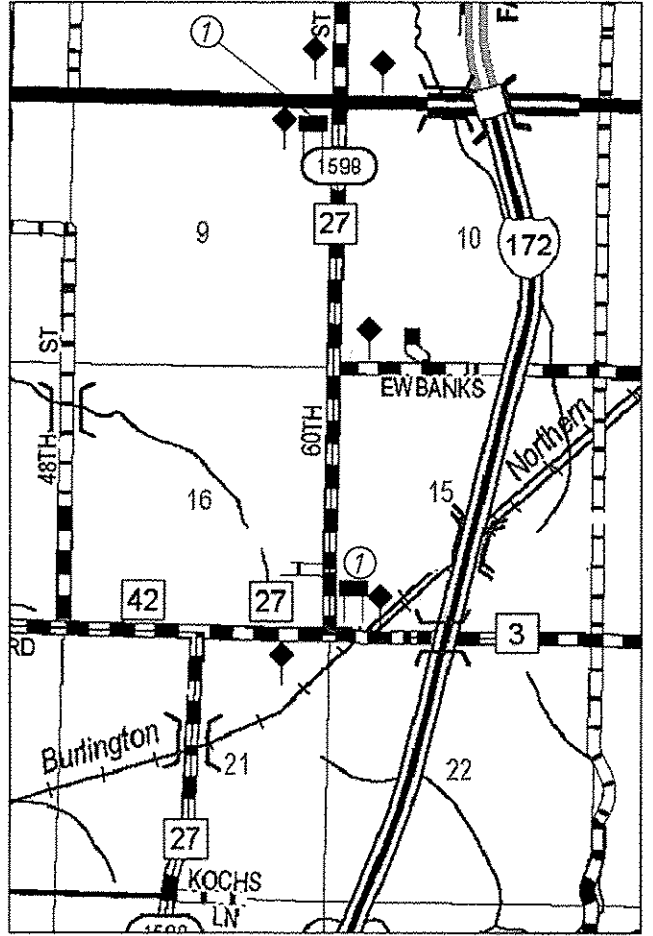
SUMMARY OF QUANTITIES

TOTAL QUANTITY	UNIT	ITEM	CODE NO.	SPECIAL PROVISION
137	CU YD	EARTH EXCAVATION	20200100	*
297	TON	AGGREGATE BASE COURSE, TYPE B	35101400	
18,860	POUND	BITUMINOUS MATERIALS (TACK COAT)	40600290	*
1,205	TON	LEVELING BINDER (MACHINE METHOD), N50	40600625	*
364	SQ YD	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	40600982	*
53	SQ YD	TEMPORARY RAMP	40600990	
2,000	TON	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	40603510	*
215	POUND	BITUMINOUS MATERIAL (TACK COAT)	40800029	*
144	TON	INCIDENTAL HOT-MIX ASPHALT SURFACING	40800050	*
430	TON	AGGREGATE WEDGE SHOULDERS, TYPE B	48102100	*
1	L. SUM	MOBILIZATION	67100100	
1,132	FOOT	SHORT TERM PAVEMENT MARKING	70300100	
5,867	FOOT	PAINT PAVEMENT MARKING - LINE 4"	78001110	△
36	FOOT	PAINT PAVEMENT MARKING - LINE 24"	78001180	△
2,053	SQ FT	PAVEMENT MARKING REMOVAL	78300100	
286	SQ YD	PAVEMENT REMOVAL (SPECIAL)	X4404400	*
1	L SUM	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	X7010216	*

△ SPECIALTY ITEMS

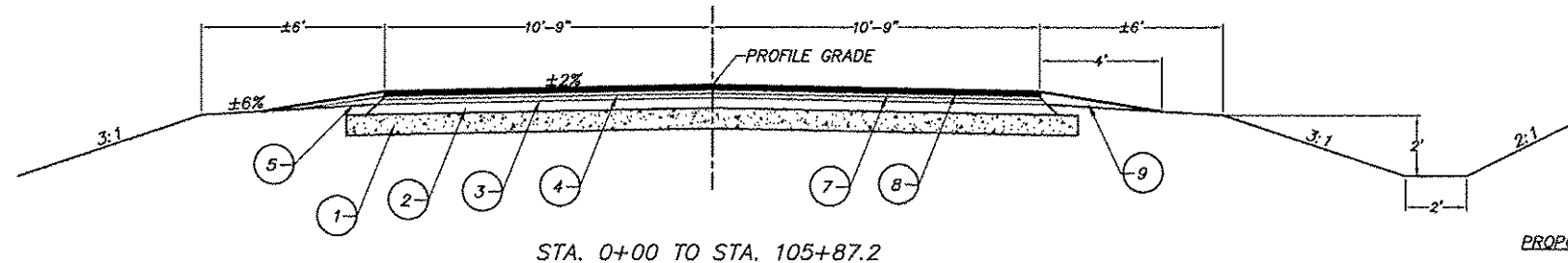
TRAFFIC CONTROL AND PROTECTION

- ① G20-1(0)-6036 SIGN
G20-2a(0)-6024 SIGN (OPPOSITE)
- ◆ ROAD CONSTRUCTION AHEAD
- SEE SPECIAL PROVISIONS FOR APPLICATION OF:
"NO PASSING ZONES NOT STRIPPED NEXT ____ MILES"



COUNTY	ROUTE	SECTION	SHT. NO.
ADAMS	FAS 1588	14-00065-01-RS	3
TYPICAL SECTIONS APPLICATION RATES HMA MIXTURE REQUIREMENTS			

TYPICAL SECTIONS



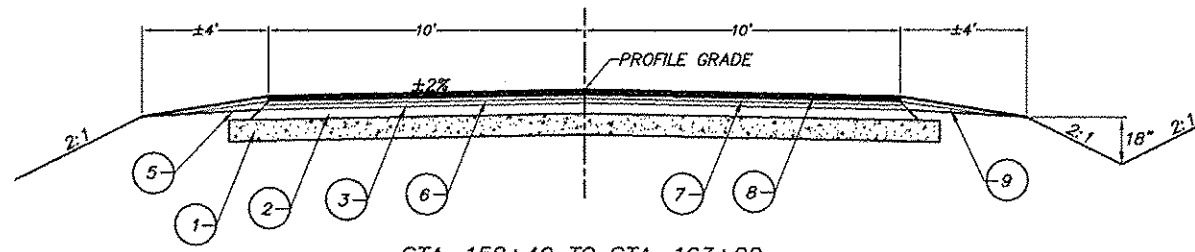
STA. 0+00 TO STA. 105+87.2

EXISTING MATERIALS:

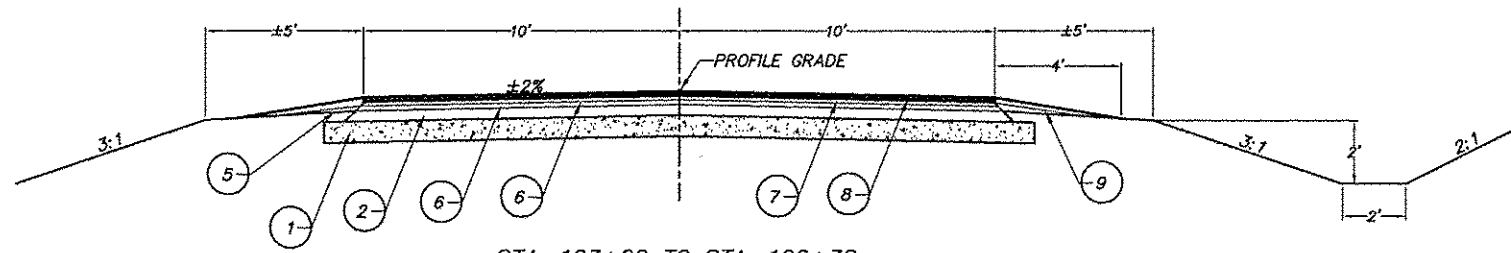
1. ± 8 " AGGREGATE BASE COURSE, TYPE B
2. ± 4 BIT. MATERIALS (CLASS A & COLD MIX SURFACING)
3. $1\frac{1}{2}$ " HOT-MIX ASPHALT BINDER COURSE
4. $1\frac{1}{4}$ " HOT-MIX ASPHALT SURFACE COURSE
5. AGGREGATE WEDGE SHOULDER
6. $1\frac{1}{2}$ " HOT-MIX ASPHALT SURFACE COURSE

PROPOSED MATERIALS:

7. $\frac{3}{4}$ " LEVELING BINDER (MACHINE METHOD), N50
8. $1\frac{1}{4}$ " POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX C, N50
9. AGGREGATE WEDGE SHOULDER, TYPE B



STA. 158+40 TO STA. 163+00



STA. 163+00 TO STA. 166+38

APPLICATION RATES

BITUMINOUS MATERIALS (PRIME COAT)
 ON EXISTING PAVEMENT 0.05 LB/SQ FT
 BETWEEN HMA LIFTS 0.025 LB/SQ FT
 ON AGGREGATE 0.25 #/SQ FT

AGGREGATE (SURFACE, SHOULDERS) 1.8 TON/CU YD

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

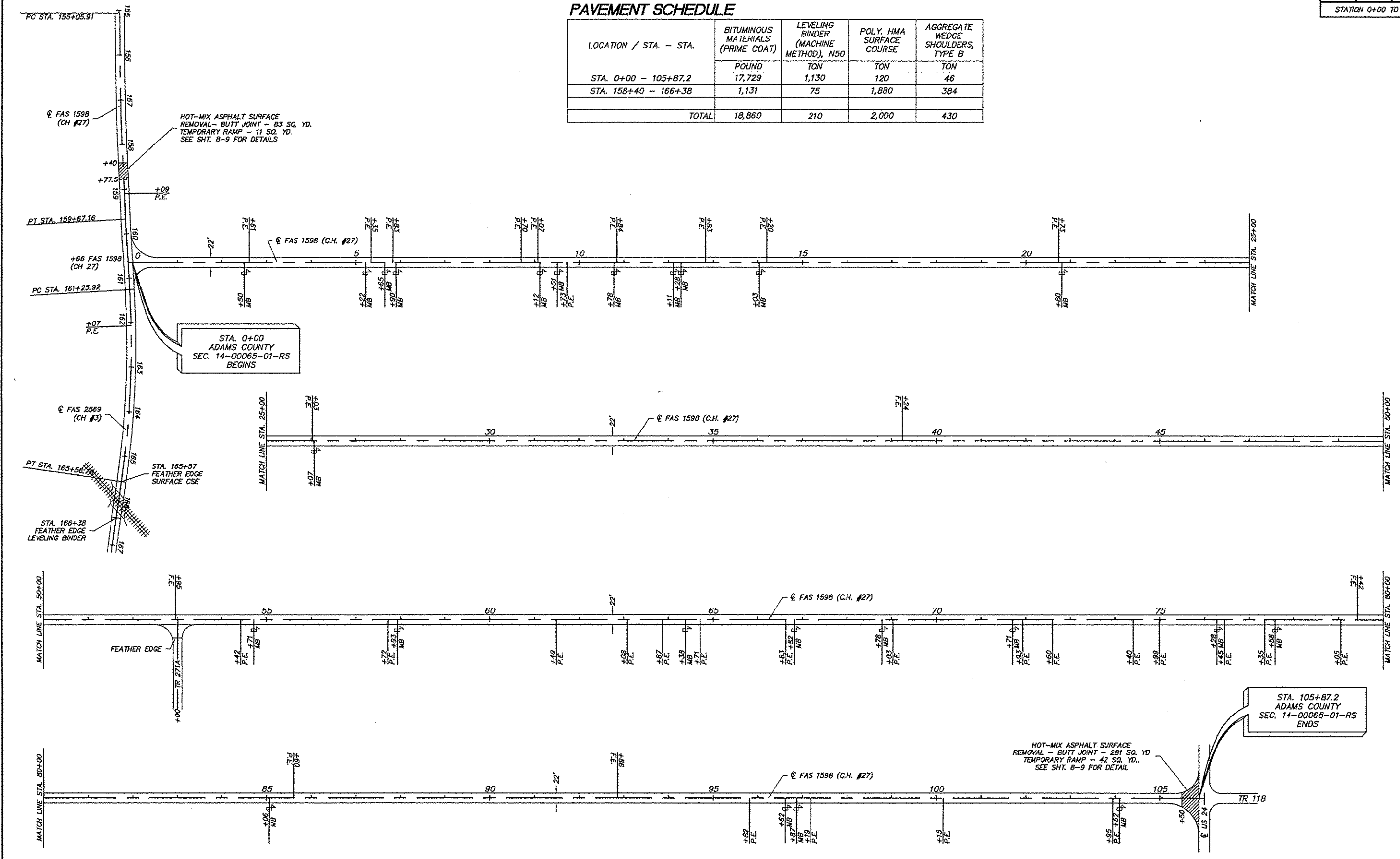
PAY ITEM	MIXTURE	ASPHALT GRADE	N Design	VOIDS
HOT-MIX ASPHALT BASE COURSE WIDENING	IL-19.0	PG 64-22	N50	4.0%
HOT-MIX ASPHALT BASE COURSE	IL-19.0	PG 64-22	N50	4.0%
LEVELING BINDER, MACHINE METHOD	IL-9.5	PG 64-22	N50	4.0%
HOT-MIX ASPHALT BINDER COURSE	IL-19.0	PG 64-22	N50	4.0%
HOT-MIX ASPHALT SURFACE COURSE	IL-9.5 "C"	PG 64-22	N50	4.0%
POLY. HOT-MIX ASPHALT SURFACE COURSE	IL-9.5 "C"	SBS PG 64-28	N50	4.0%

NOTE: HOT-MIX ASPHALT QUANTITIES CALCULATED @ 112 #/SQ. YD. / IN.

COUNTY	ROUTE	SECTION	SHT. NO.
ADAMS	FAS 1598	14-00065-01-RS	4
STATION 0+00 TO STATION 105+87.2			

PAVEMENT SCHEDULE

LOCATION / STA. - STA.	BITUMINOUS MATERIALS (PRIME COAT)	LEVELING BINDER (MACHINE METHOD), N50	POLY. HMA SURFACE COURSE	AGGREGATE WEDGE SHOULDERS, TYPE B
	POLIND	TON	TON	TON
STA. 0+00 - 105+87.2	17,729	1,130	120	46
STA. 158+40 - 166+38	1,131	75	1,880	384
TOTAL	18,860	210	2,000	430



HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT - 83 SQ. YD. TEMPORARY RAMP - 11 SQ. YD. SEE SHT. 8-9 FOR DETAILS

STA. 0+00 ADAMS COUNTY SEC. 14-00065-01-RS BEGINS

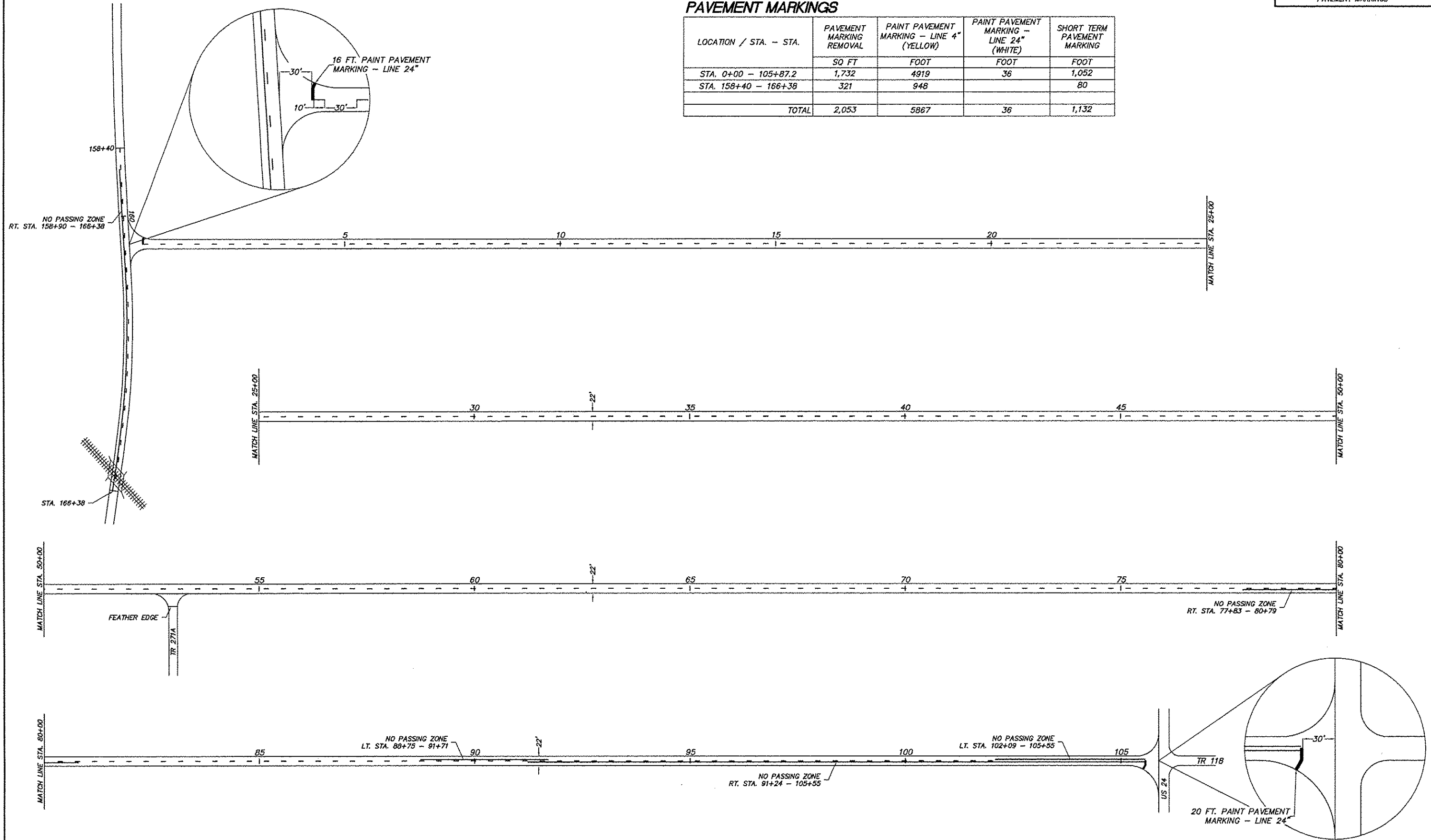
STA. 105+87.2 ADAMS COUNTY SEC. 14-00065-01-RS ENDS

HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT - 281 SQ. YD. TEMPORARY RAMP - 42 SQ. YD. SEE SHT. 8-9 FOR DETAIL

COUNTY	ROUTE	SECTION	SHT. NO.
ADAMS	FAS 1598	14-00065-01-RS	5
PAVEMENT MARKINGS			

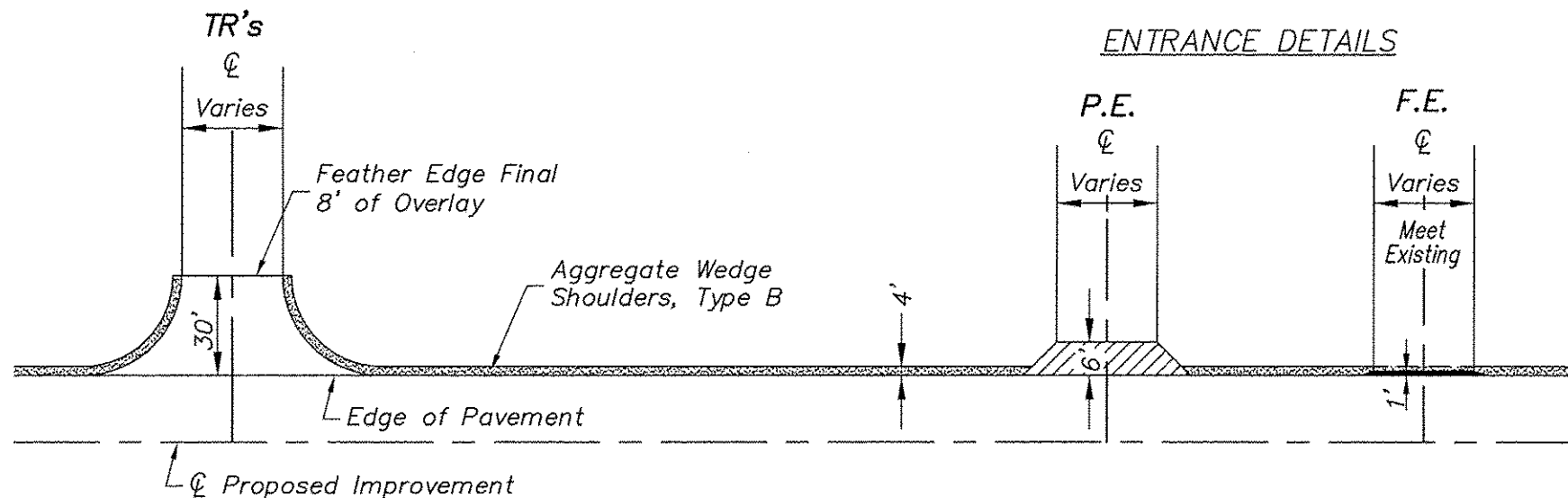
PAVEMENT MARKINGS

LOCATION / STA. - STA.	PAVEMENT MARKING REMOVAL	PAINT PAVEMENT MARKING - LINE 4" (YELLOW)	PAINT PAVEMENT MARKING - LINE 24" (WHITE)	SHORT TERM PAVEMENT MARKING
	SQ FT	FOOT	FOOT	FOOT
STA. 0+00 - 105+87.2	1,732	4919	36	1,052
STA. 158+40 - 166+38	321	948		80
TOTAL	2,053	5867	36	1,132

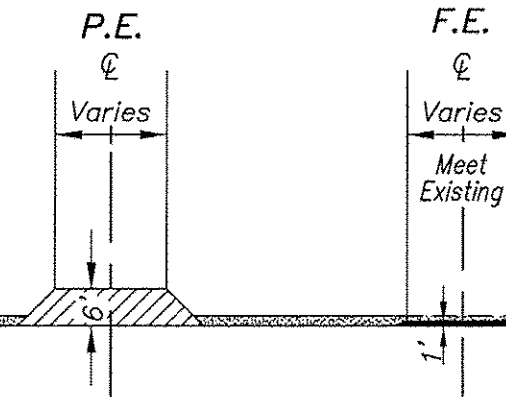


COUNTY	ROUTE	SECTION	SHT. NO.
ADAMS	FAS 1598	14-00065-01-RS	6
ENTRANCE PAVING DETAILS			

INTERSECTION DETAIL

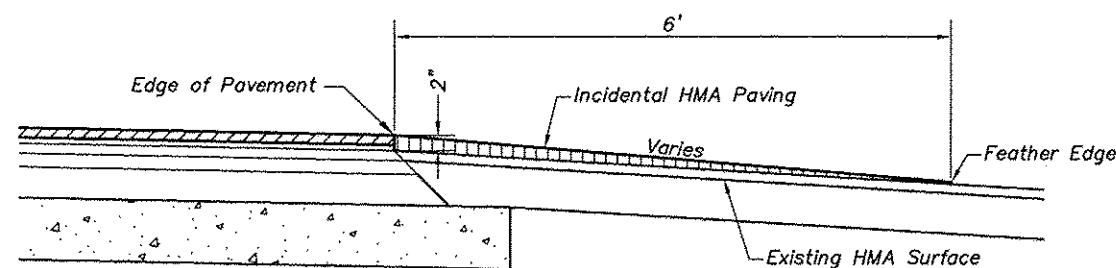


ENTRANCE DETAILS

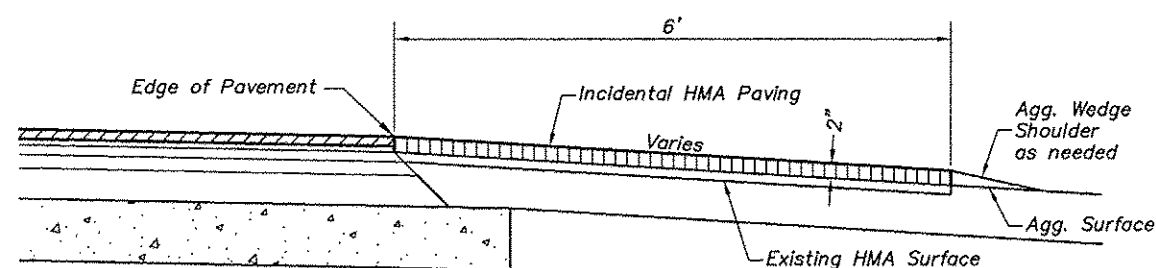


INCIDENTAL PAVING SCHEDULE (ENTRANCES)

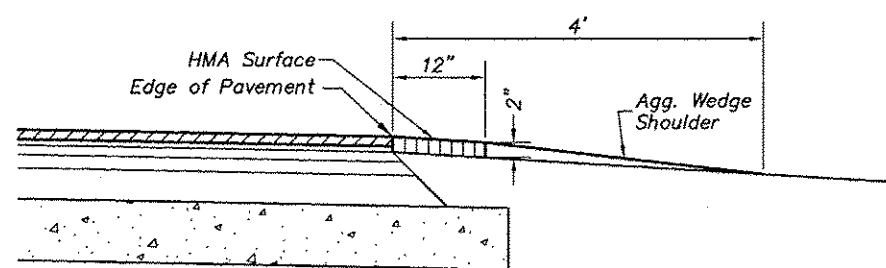
LOCATION / STA. - STA.	PAVEMENT REMOVAL (SPECIAL)	EARTH EXCAVATION	AGGREGATE BASE COURSE, TYPE B	BITUMINOUS MATERIALS (PRIME COAT)	INCIDENTAL HOT-MIX ASPHALT SURFACING
	SQ YD	CU YD		POUND	TON
LT. STA. 2+61				12	3
LT. STA. 5+35				9	3
LT. STA. 5+83				6	2
LT. STA. 8+70		5	10		3
LT. STA. 9+07		3	6		2
RT. STA. 9+73	18	3	9		2
LT. STA. 10+84		13	26	12	10
LT. STA. 12+83				12	3
LT. STA. 14+20	18	4	9		3
LT. STA. 20+73				11	3
LT. STA. 26+03				9	3
LT. STA. 39+24				1	1
LT. STA. 52+95		5	10		3
RT. STA. 54+42		7	15	11	7
RT. STA. 57+72	18	4	9		3
RT. STA. 61+49				11	3
RT. STA. 63+08				11	3
RT. STA. 64+71	11	8	17		5
RT. STA. 66+63				9	3
RT. STA. 69+03				8	2
RT. STA. 71+93				8	2
RT. STA. 72+60				1	2
RT. STA. 74+40	2	4	8		2
RT. STA. 74+99				10	3
RT. STA. 76+45				8	2
RT. STA. 77+35				7	2
RT. STA. 79+05	16	3	8		2
LT. STA. 79+42					1
LT. STA. 85+60	18	4	9		3
LT. STA. 92+86					1
RT. STA. 95+82				19	5
RT. STA. 97+19				15	4
RT. STA. 100+15				2	1
RT. STA. 103+95				10	3
LT. STA. 159+08				12	3
RT. STA. 162+07	16	4	10		3
TOTAL	117	67	146	215	105



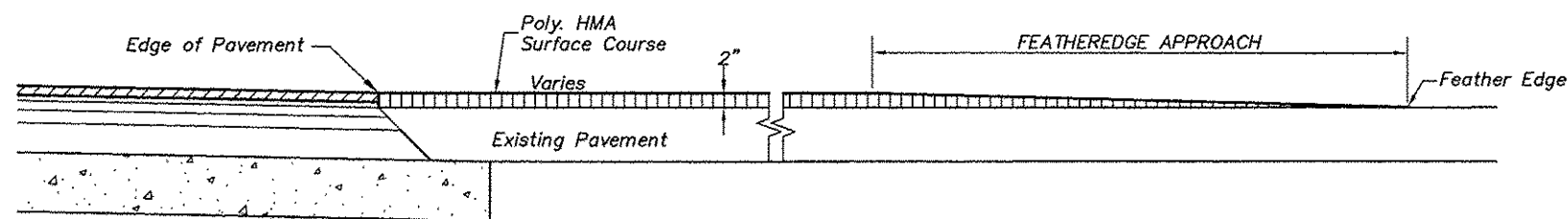
EXISTING HMA or PCC ENTRANCE



EXISTING AGGREGATE SURFACE ENTRANCE



FIELD ENTRANCE

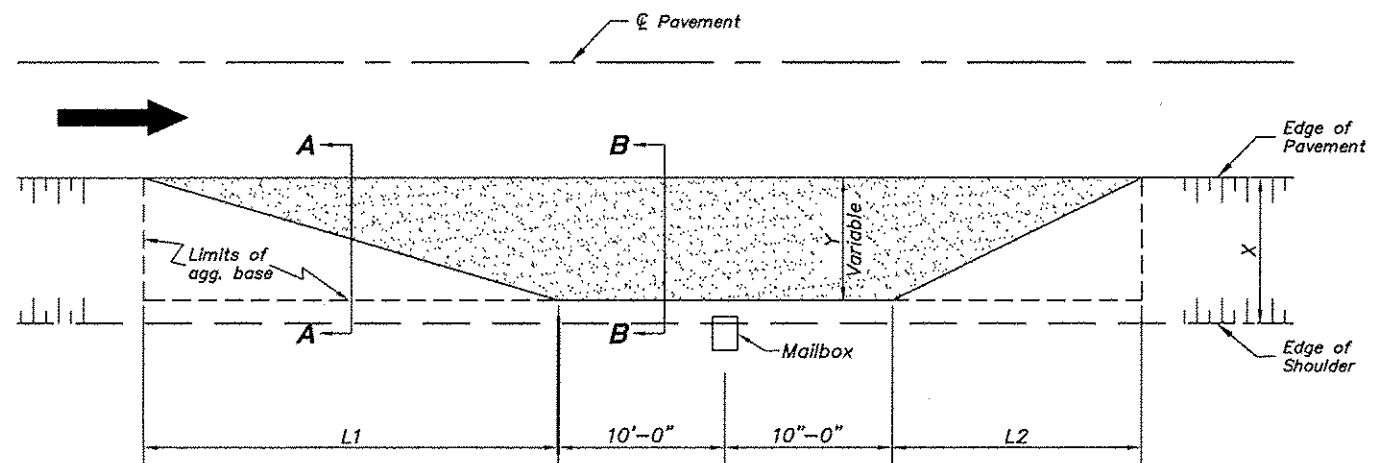


EXISTING SIDE ROADS

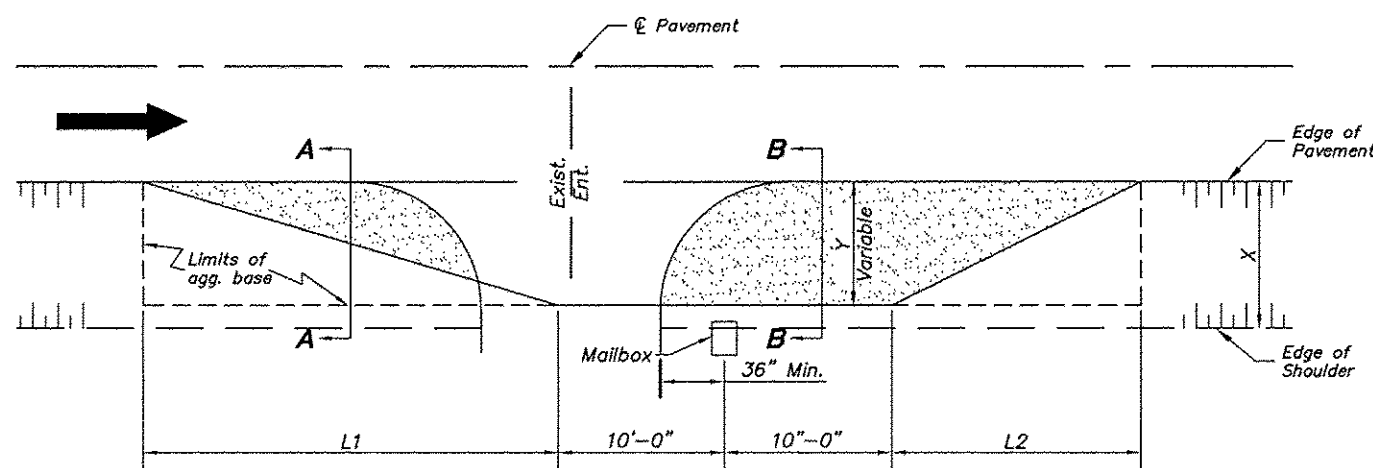
ENTRANCES

COUNTY	ROUTE	SECTION	SHT. NO.
ADAMS	FAS 1598	14-00065-01-RS	7

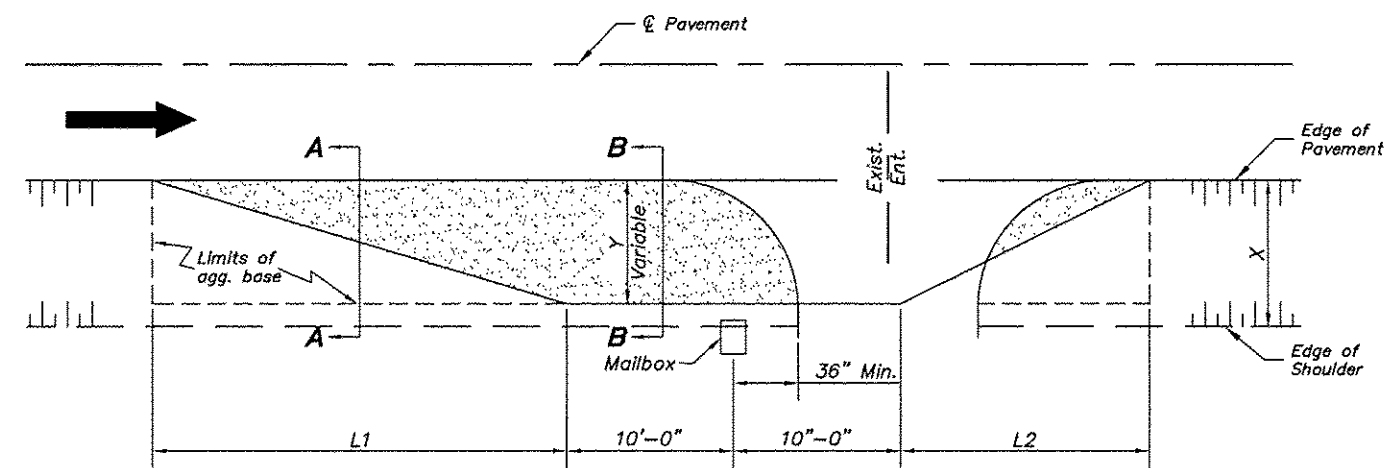
MAILBOX TURNOUT DETAILS



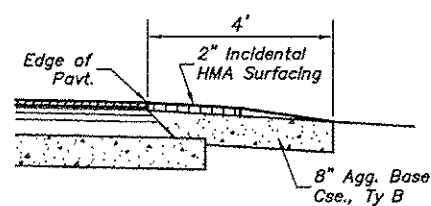
TYPICAL APPLICATION



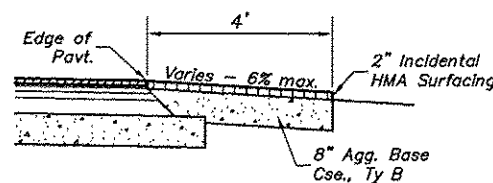
MAILBOX ON FAR SIDE OF ENTRANCE



MAILBOX ON NEAR SIDE OF ENTRANCE



SECTION A-A



SECTION B-B

INCIDENTAL PAVING SCHEDULE
(MAILBOX TURNOUT)

LOCATION / STA. - STA.	PAVEMENT REMOVAL (SPECIAL)	EARTH EXCAVATION	AGGREGATE BASE COURSE, TYPE B	INCIDENTAL HOT-MIX ASPHALT SURFACING
	SQ YD	CU YD	TON	TON
RT. STA. 2+50	9	4	10	3
RT. STA. 5+22	11			
RT. STA. 5+65		5	10	2
RT. STA. 5+90	10			
RT. STA. 9+51	5	3	7	2
RT. STA. 10+78	10	4	10	2
RT. STA. 12+28	18	4	10	2
RT. STA. 14+03	8	5	10	2
RT. STA. 20+80	8	5	10	2
RT. STA. 26+07	10	4	10	2
RT. STA. 54+71		3	6	2
RT. STA. 57+93	8	3	6	2
RT. STA. 64+38	9	3	7	2
RT. STA. 66+82	6	2	5	1
RT. STA. 68+78	9	3	6	2
RT. STA. 71+71	5	3	6	2
RT. STA. 76+28	6	3	6	2
RT. STA. 77+58	7	3	6	2
RT. STA. 85+06	6	5	10	2
RT. STA. 96+62	14			
RT. STA. 96+87	3	4	8	2
RT. STA. 104+10				1
RT. STA. 159+08				2
RT. STA. 162+22	7	4	8	1
TOTAL	169	70	151	39

DIMENSIONS - ft.						
Width of Shoulder (X)	12	10	8	6	5	4
Width of Turnout (Y)	8	8	6	4	4	4
L1	30	30	23	15	15	15
L2	20	20	15	10	10	10

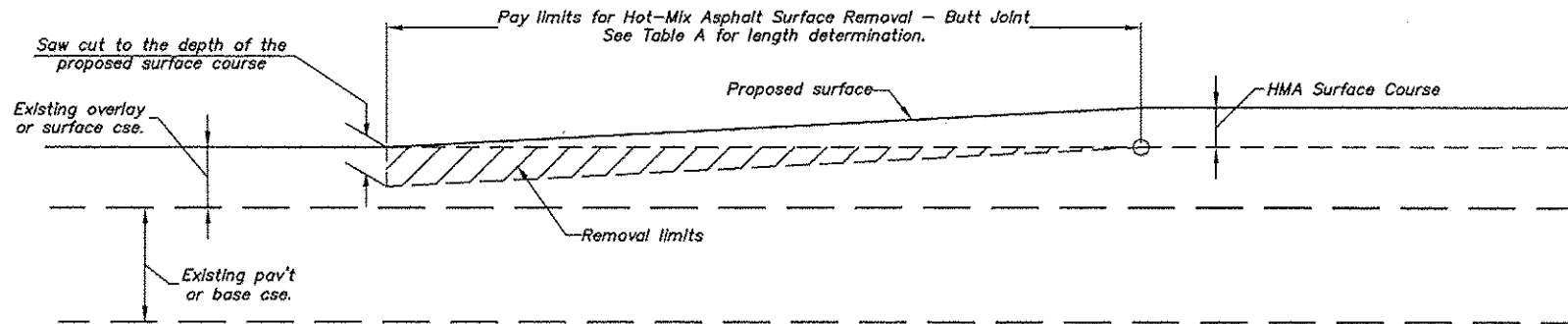
GENERAL NOTES:

The Engineer reserves the right to alter the placement of the mailbox turnout to match existing conditions and utilize the entrance as part of the taper.

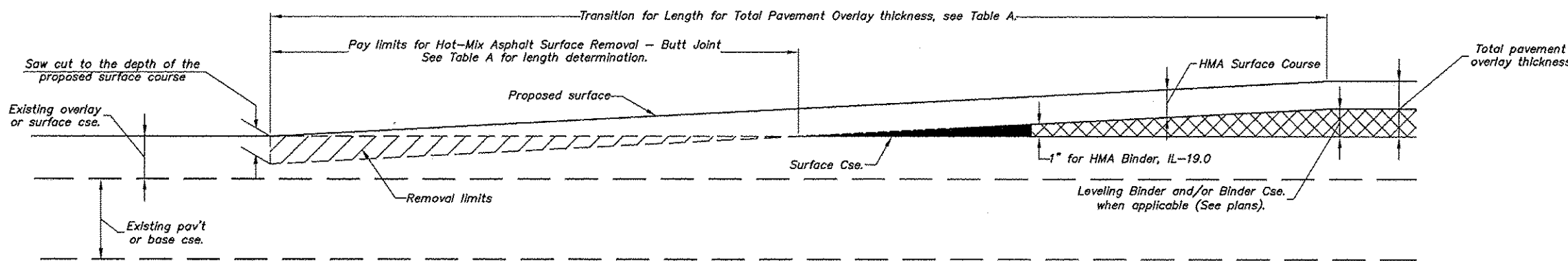
Mailboxes shall be mounted such that the face of the mailbox is 6" to 12" and the post a minimum of 24" from the edge of the turnout surfacing.

MAILBOX TURNOUTS

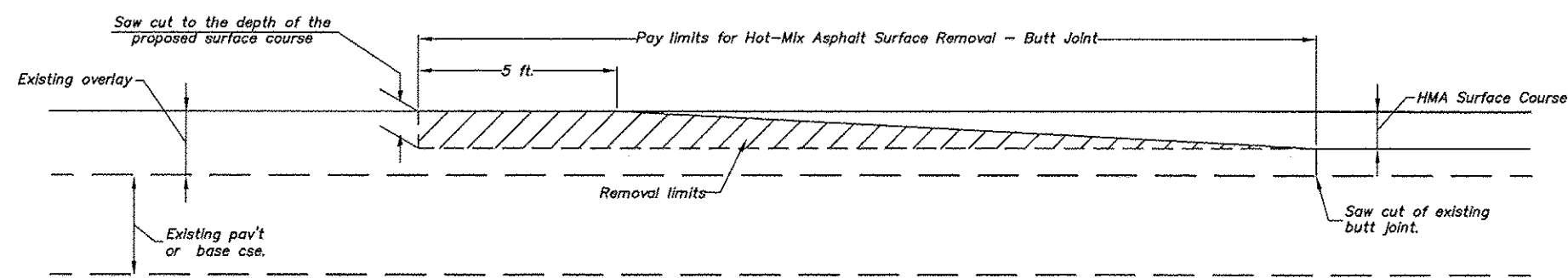
COUNTY	ROUTE	SECTION	SHT. NO.
ADAMS	FAS 198	14-00065-01-RS	8
BUTT JOINT DETAILS			



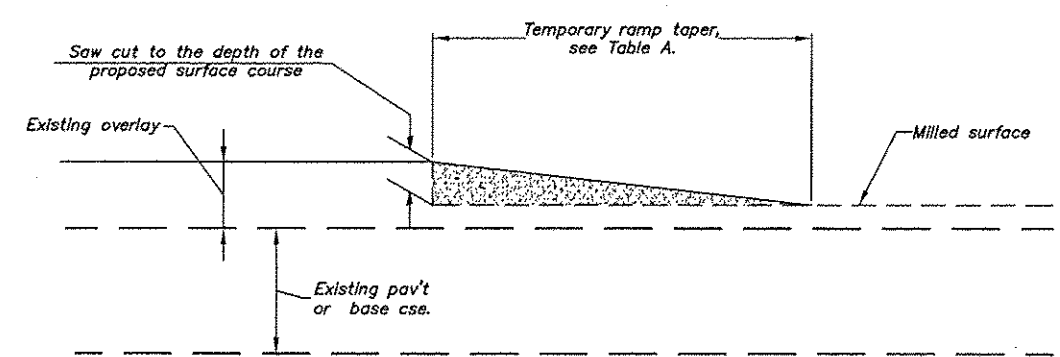
CASE 1: BUTT JOINT w/ SURFACE OVERLAY



CASE 1A: BUTT JOINT w/ SURFACE & BINDER OVERLAY



CASE 1B: BUTT JOINT w/ SURFACE OVERLAY TIE-IN TO EXISTING BUTT JOINT



TEMPORARY RAMP DETAIL

General Notes

1. The work shall be done in accordance with Article 406.08 and the Special Provision for Butt Joints.
2. The pavement surface to be removed may be either HMA or P.C. concrete. The work shall be performed in accordance with Article 440.04 and the Special Provisions for Butt Joints.
3. The saw cut joints shall be primed just prior to the placing of HMA material. The work will be in accordance with the applicable portions of Article 406.05.

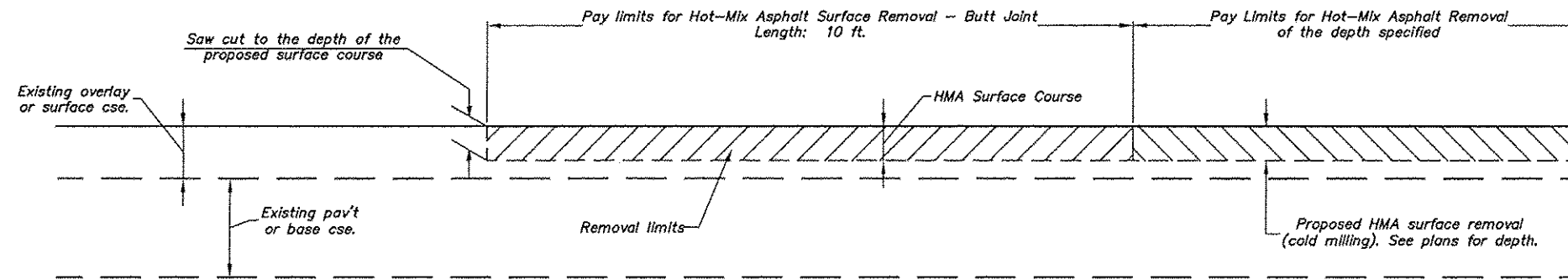
TABLE A - TAPER RATES

ELEMENT	POSTED SPEED < 45 MPH	POSTED SPEED => 45 MPH
BUTT JOINT	20' PER 1" OF DEPTH	30' PER 1" OF DEPTH
FEATHEREDGE	20' PER 1" OF THICKNESS	30' PER 1" OF THICKNESS
TEMPORARY RAMP	3' PER 1" OF HEIGHT	4' PER 1" OF DEPTH

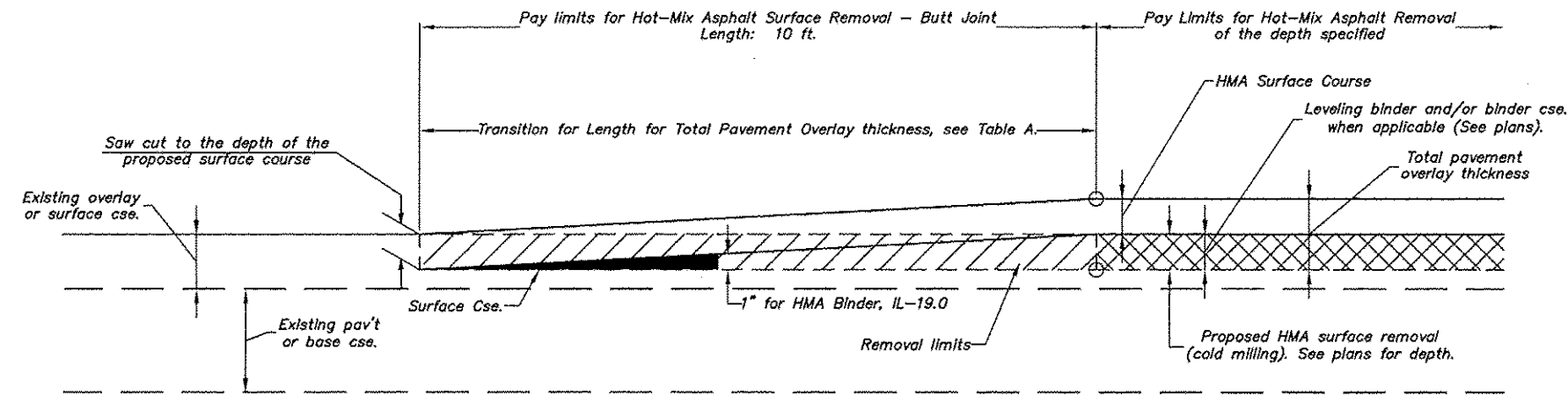
Length of butt joint = Thickness of Surface Cse multiplied by the Taper Rate.
 Length of Pav't Transition = Total Pav't thickness multiplied by the Taper Rate.

**BUTT JOINTS
FEATHEREDGE APPROACH**

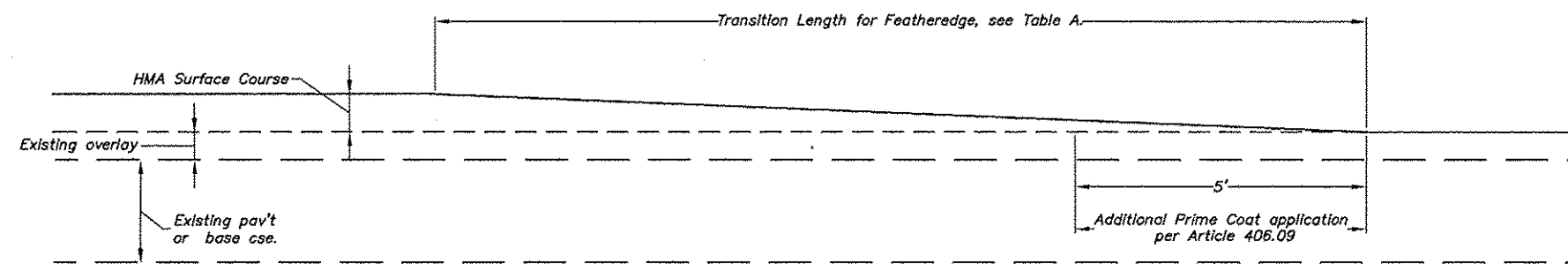
COUNTY	ROUTE	SECTION	SHT. NO.
ADAMS	FAS 1508	14-00065-01-RS	9
BUTT JOINT DETAILS			



CASE 2: BUTT JOINT & SURFACE REMOVAL w/ RESURFACING



CASE 2A: BUTT JOINT & SURFACE REMOVAL w/ BINDER & RESURFACING



FEATHEREDGE APPROACH

**BUTT JOINTS
FEATHEREDGE APPROACH**