

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2660	06-00065-00-RS	MOULTRIE	7	1
CH 19	ILLINOIS	CONTRACT NO. 95591		

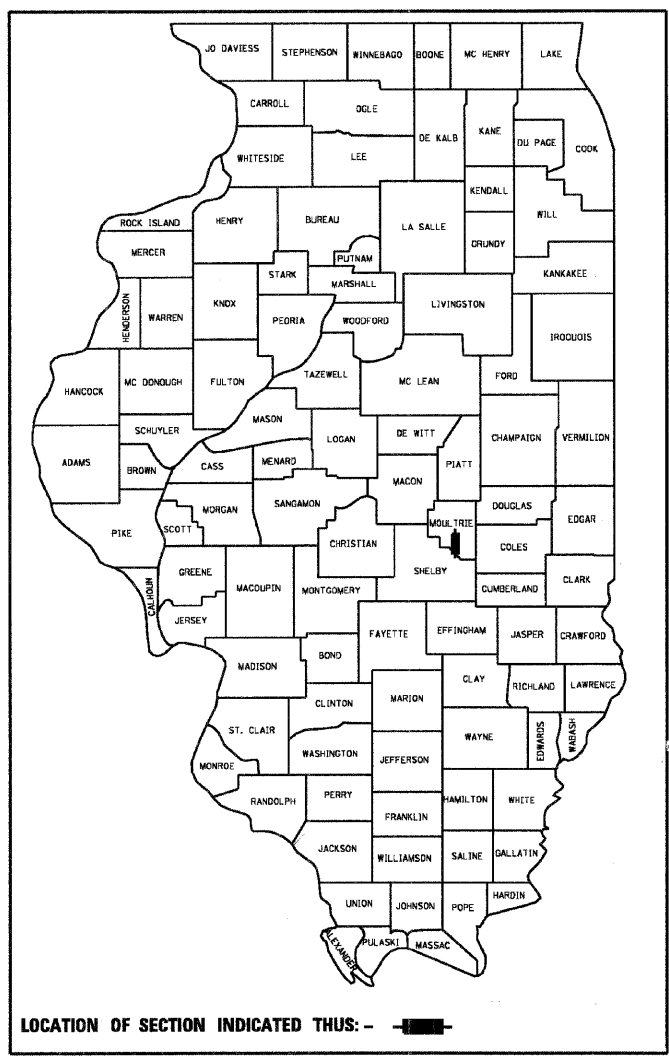
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED
FEDERAL AID PROJECT
FAS ROUTE 2660 (CH 19)
SECTION 06-00065-00-RS
MOULTRIE COUNTY
WHITLEY CREEK ACCESS ROAD
C-97-102-99
PROJECT NO. ARA-RS-2660 (101)

INDEX OF SHEETS

SHEET NO	TITLE
1	COVER SHEET
2	SUMMARY OF QUANTITIES
2	GENERAL NOTES
2	SCHEDULE OF QUANTITIES
3	ALIGNMENT
4	TYPICAL CROSS SECTIONS
5	INTERSECTION DETAIL
6	DETAILS FOR ENTRANCE & SIDE ROAD
7	DETAILS FOR MAILBOX TURNOUTS

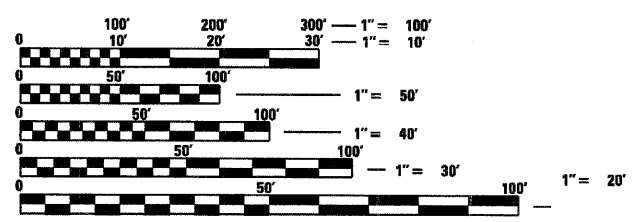
LIST OF ILLINOIS DOT HIGHWAY STANDARDS

701901-01	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
BLR 22-6	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS



UTILITY CONTACTS:

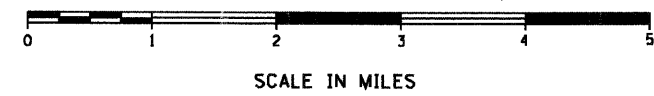
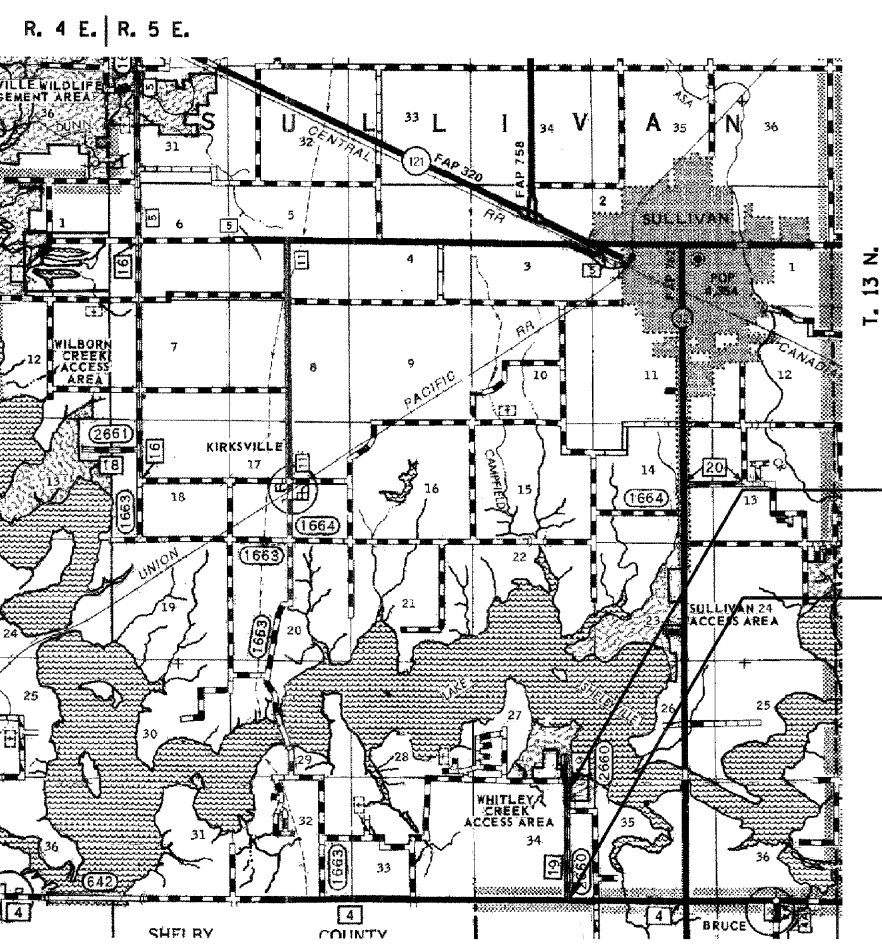
UTILITY TYPE:	UTILITY TYPE:
WATER	ELECTRIC
CENTRAL MACOUPIN CITY	M.J.M. ELECTRIC COOPERATIVE
RURAL WATER	(217) 854-3137
(618) 498-6418	ATTN: CHARLIE BAKER
ATTN: BOB MANNS	
UTILITY TYPE:	
TELEPHONE	
FRONTIER COMMUNICATIONS	
(402) 250-1095	
ATTN: BILL DANIEL	



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.

J.U.L.I.E.
 JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
 1-800-892-0123
 OR 811

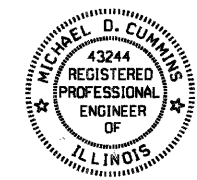
CONTRACT NO. 95591



NET LENGTH OF SECTION = 5,354.00 FEET = 1.014 MILES
 FUNCTIONAL CLASS - COLLECTOR
 DESIGN SPEED - 50 MPH
 ADT - 650

END CH 19 IMPROVEMENT
 STA 53+66

BEGIN CH 19 IMPROVEMENT
 STA 0+12



Michael D. Cummins 5-28-09
 ILLINOIS PROFESSIONAL NO. 43244
 (Expires 11/30/09)

APPROVED	<i>May 28</i>	. 20 09
	<i>Douglas D. DeLoe</i>	
	MOULTRIE COUNTY ENGINEER	
PASSED	<i>6-1</i>	. 20 09
	<i>Monica K. Kestel</i>	
	DISTRICT SEVEN ENGINEER OF LOCAL ROADS AND STREETS	
RELEASED FOR BID BASED ON LIMITED REVIEW	<i>6-1</i>	. 20 09
	<i>Tom L. Anshel</i>	
	DEPUTY DIRECTOR OF HIGHWAYS, REGION FOUR ENGINEER	
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		

SUMMARY OF QUANTITIES			
CODE	ITEM	UNIT	TOTAL QUANTITY
20200100	EARTH EXCAVATION	CU YD	4,685
30200350	PROCESSING MODIFIED SOIL 8"	SQ YD	14,331
30201500	LIME	TON	191
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	21
40300100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	3,837
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	120
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	1,210
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	1,016
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	51
44000100	PAVEMENT REMOVAL	SQ YD	22
44000161	HOT-MIX ASPHALT SURFACE REMOVAL, 3"	SQ YD	11,946
67100100	MOBILIZATION	L SUM	1
70101835	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 22	L SUM	1
XX000125	AGGREGATE BASE COURSE, TYPE B, SPECIAL	TON	6,000
XX000125	AGGREGATE SHOULDERS (SPECIAL) 3 1/4"	SQ YD	4,770

GENERAL NOTES

- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE ANY SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
- THE LOCATIONS OF EXISTING WATER MAINS, GAS MAINS, ELECTRIC POWER LINES, TELEPHONE LINES AND OTHER UTILITIES AS SHOWN ON THE PLANS, ARE BASED ON CAREFUL FIELD INVESTIGATION AND THE BEST INFORMATION AVAILABLE BUT THE LOCATIONS ARE NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE UTILITY COMPANIES AND BY FIELD INSPECTION.
- THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

LOCATIONS:	CH 19	CH 19
MIXTURE USES:	BINDER COURSE	SURFACE COURSE
AC/PG:	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4.0% @ N _{des} = 50	4.0% @ N _{des} = 50
MIX COMPOSITION: (GRADATION MIXTURE)	IL - 19.0	IL - 9.5
FRICTION AGGREGATE:	N/A	MIX "C"

APPLICATION RATES USED IN QUANTITY CALCULATIONS

Granular Materials ----- 2.05 Tons/Cu. Yd.
 Bituminous Materials (Prime Coat) ----- 0.30 Gallon/Sq.Yd. (Agg. Bases)
 Bituminous Concrete ----- 112*/Sq.Yd./Inch

EARTH EXCAVATION			
LOCATION	END AREA	QTY	
	SQ FT	CU YD	
STA 0+12 TO STA 53+66	23.6	4,685	

PAVEMENT REMOVAL *			
LOCATION	WIDTH	QTY	
	FOOT	SQ YD	
STA 51+51 TO STA 51+61	20	22	

* ITEM CONSISTS OF REMOVAL OF EXISTING CONCRETE PATCH OVER PIPE CULVERT AT STA 51+56. EXCAVATION TO BE BACKFILLED WITH EMBANKMENT PRIOR TO SOIL MODIFICATION. (BACKFILL INCLUDED IN THE COST FOR EARTH EXCAVATION)

HOT-MIX ASPHALT SURFACE REMOVAL, 3"			
LOCATION	WIDTH	QTY	
	FOOT	SQ YD	
STA 0+12 TO STA 53+66	20	11,946	

PROCESSING MODIFIED SOIL 8"			
LOCATION	WIDTH	QTY	
	FOOT	SQ YD	
STA 0+12 TO STA 53+66	24	14,331	

AGGREGATE BASE COURSE, TYPE B (SPECIAL)*			
LOCATION	WIDTH	QTY	
	FOOT	TON	
STA 0+12 TO STA 53+66	22	5,985	

* SEE SPECIAL PROVISION "AGGREGATE BASE COURSE TYPE B (SPECIAL)"

BITUMINOUS MATERIALS (PRIME COAT)			
LOCATION	WIDTH	QTY	
	FOOT	GALLON	
STA 0+12 TO STA 53+66	21	3,763	

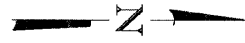
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50			
LOCATION	WIDTH	QTY	
	FOOT	TON	
STA 0+12 TO STA 53+66	20.67	1,210	

HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50			
LOCATION	WIDTH	QTY	
	FOOT	TON	
STA 0+12 TO STA 53+66	20.25	1,016	

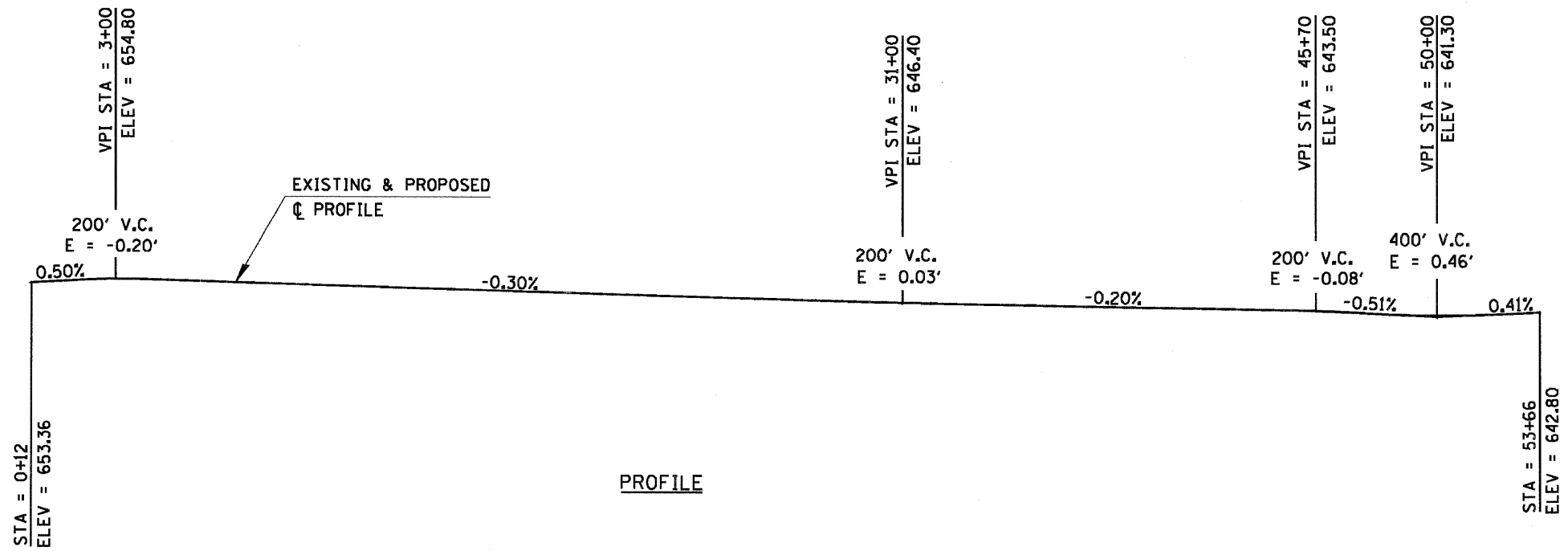
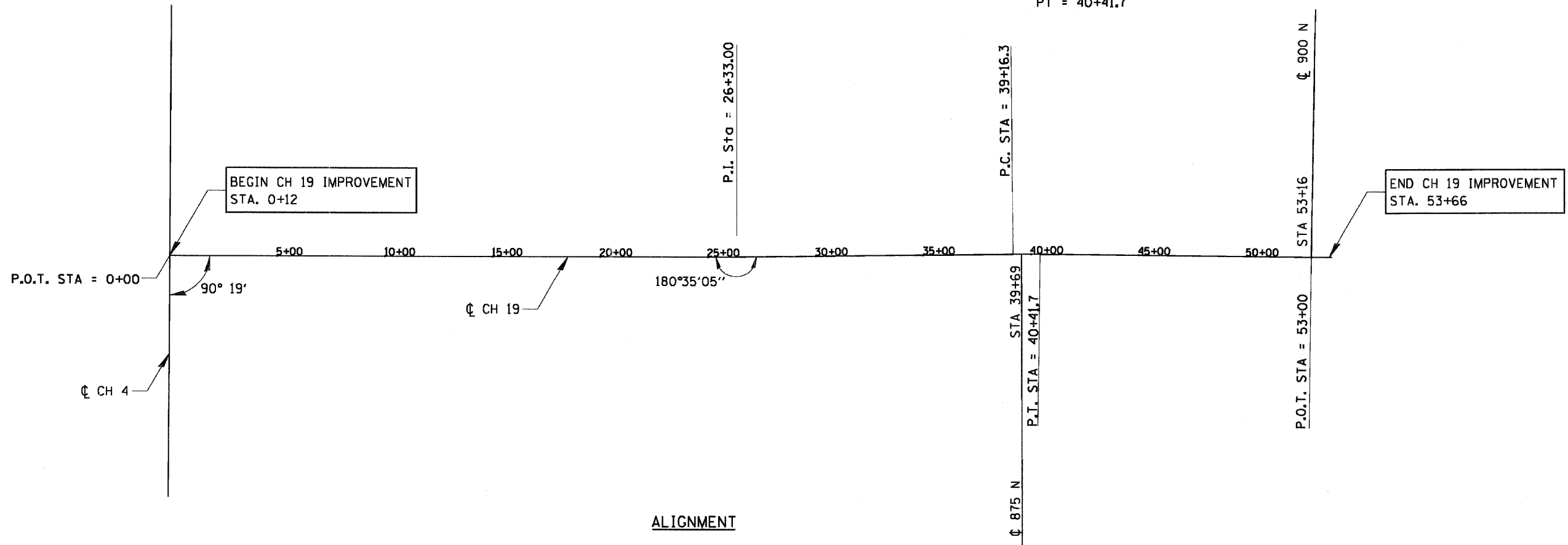
AGGREGATE SHOULDERS (SPECIAL) 3 1/4"			
LOCATION	WIDTH	QTY	
	FOOT	SQ YD	
LT STA 0+12 TO STA 53+66	4	2,385	
RT STA 0+12 TO STA 53+66	4	2,385	
TOTAL		4,770	

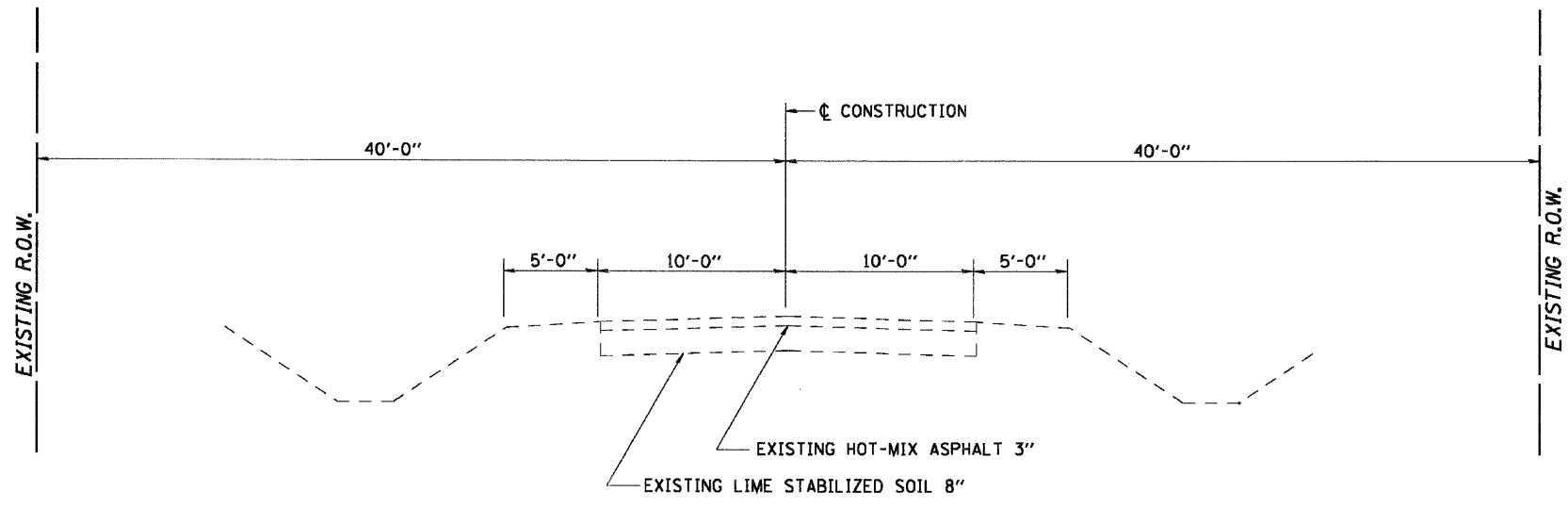
ENTRANCES, SIDE ROADS, MAIL BOX TURNOUTS

LOCATION	TYPE	WIDTH	AGG	AGG	BIT	HMA	INCIDENTAL
		FOOT	BASE	SURF	MATLS	SURFACE	HMA SURF
			COURSE	COURSE	PRIME	REMOVAL -	
			(SPECIAL)		COAT	BUTT JOINT	
			TON	TON	GALLON	SQ YD	TON
LT STA 13+03	AGG FE	16		3			
RT STA 13+03	AGG FE	16		3			
RT STA 38+75	EARTH FE	16		3			
LT STA 38+75	EARTH FE	16		3			
LT STA 39+62	EARTH FE	16		3			
LT STA 40+85	AGG MB		5		5		3
RT STA 39+69	O&C SIDE ROAD	18			9	60	6
RT STA 40+62	AGG PE	12			7		5
RT STA 42+01	AGG PE	12			7		5
RT STA 43+78	AGG PE	12			7		5
RT STA 45+17	AGG PE	20			10		7
LT STA 45+30	AGG MB		5		3		3
RT STA 45+98	EARTH FE	16		3			
RT STA 47+89	EARTH FE	16		3			
LT STA 48+87	AGG MB		5		3		3
RT STA 49+26	AGG PE	10			7		4
RT STA 49+75	AGG PE	10			7		4
LT STA 53+00	O&C SIDE ROAD	18			9	60	6
TOTAL			15	21	74	120	51

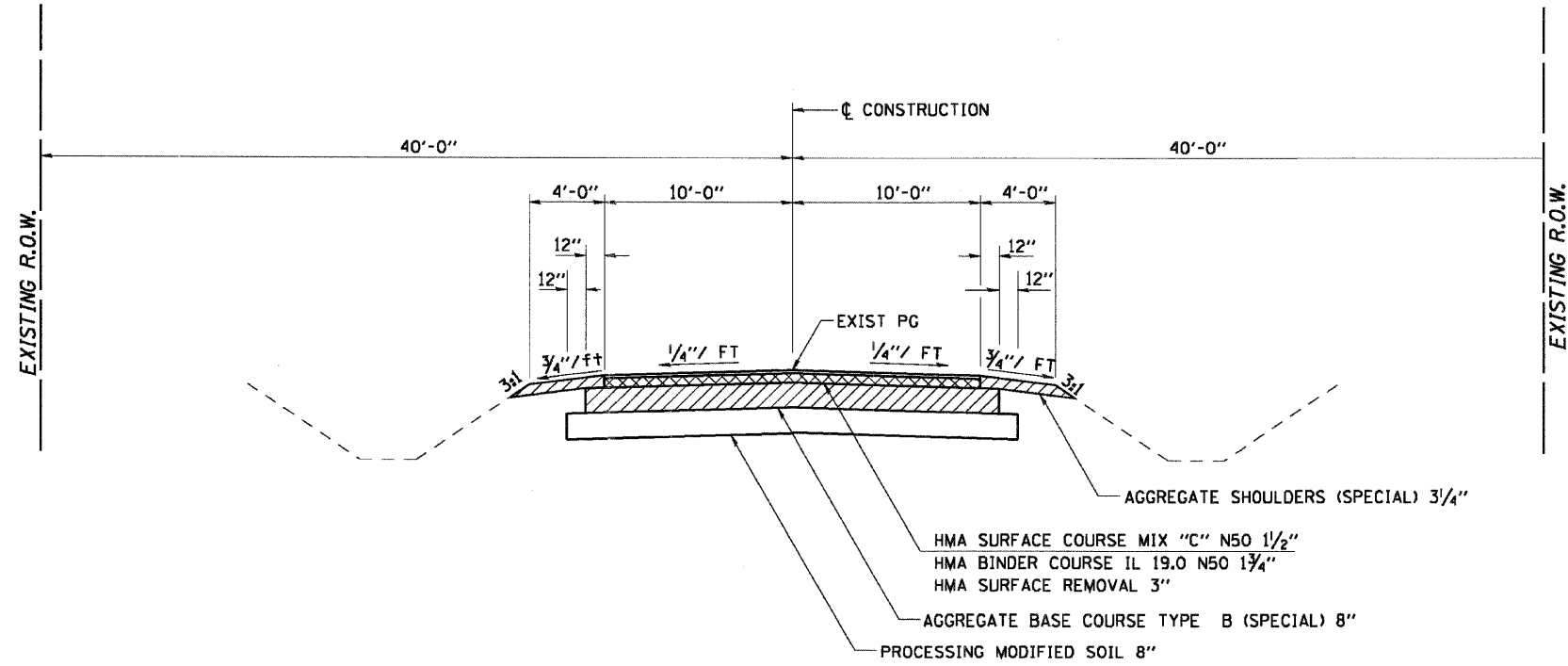


CURVE DATA
 PI = 39+79
 $\Delta = 1^\circ 15' 13''$ RT
 D = $1^\circ 00'$
 T = 62.7
 L = 125.4'
 R = 5731.3'
 PC = 39+16.3
 PT = 40+41.7





CH 19. TYPICAL EXISTING ROADWAY CROSS SECTION



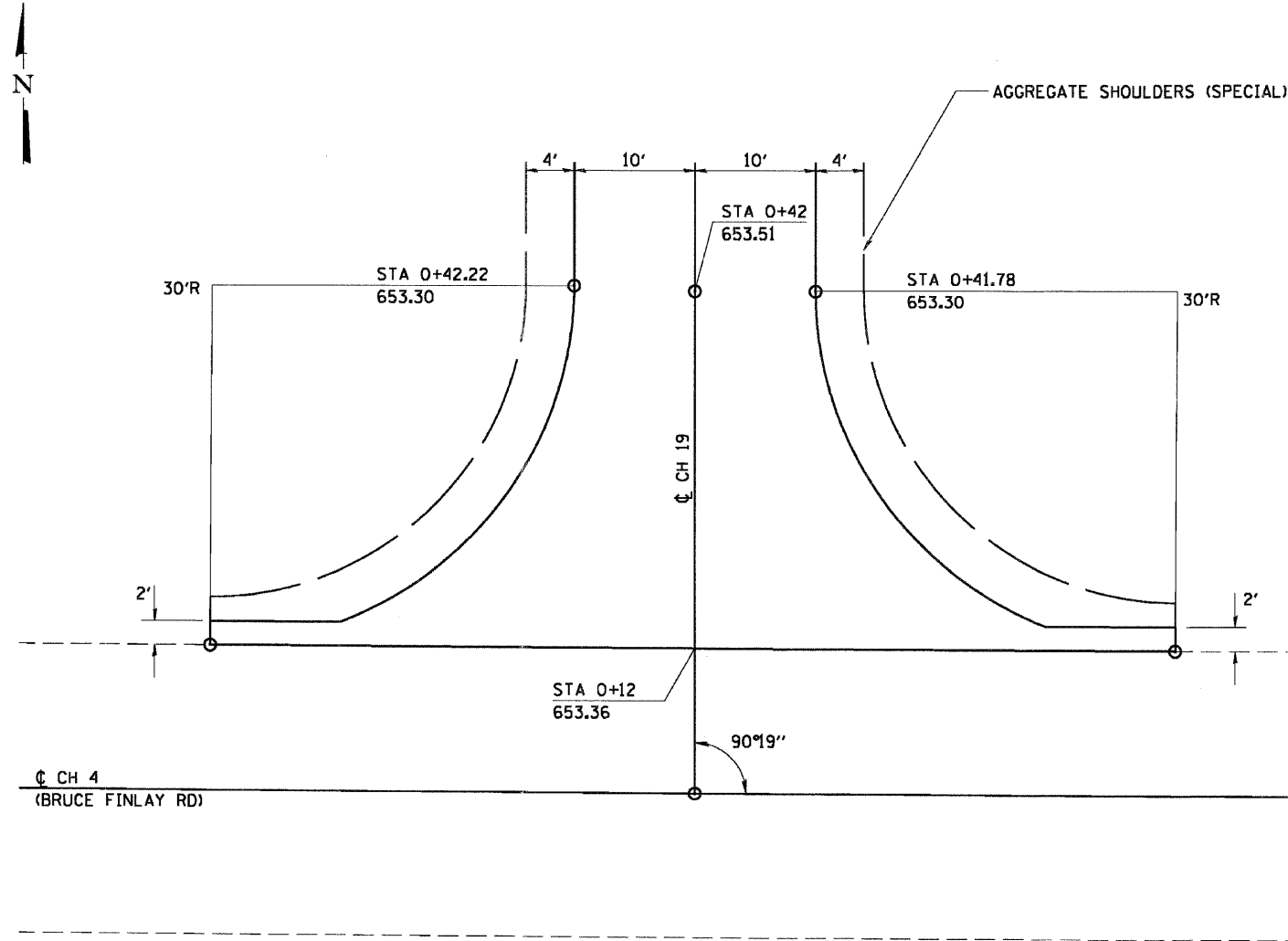
CH 19. TYPICAL PROPOSED ROADWAY CROSS SECTION

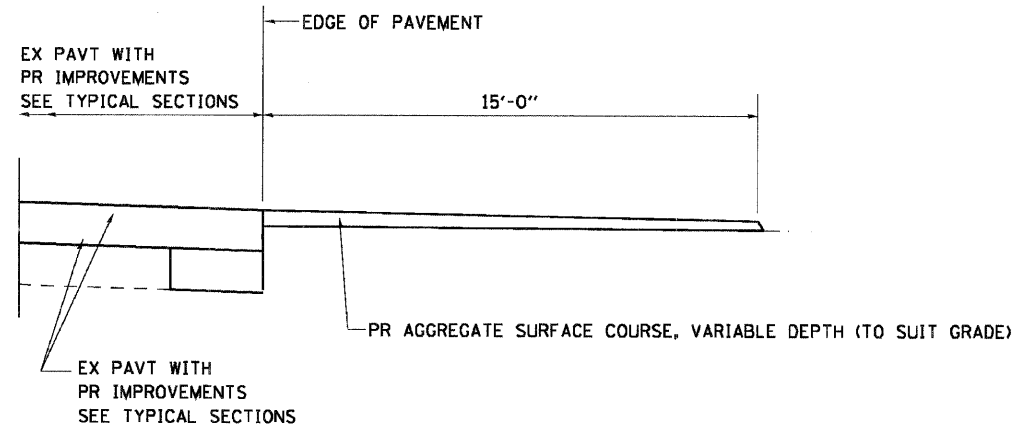
STA 0+12 TO STA 53+66

LEGEND	
	INDICATES LIMITS OF EARTH EXCAVATION
	INDICATES LIMITS OF HMA SURFACE REMOVAL 3"

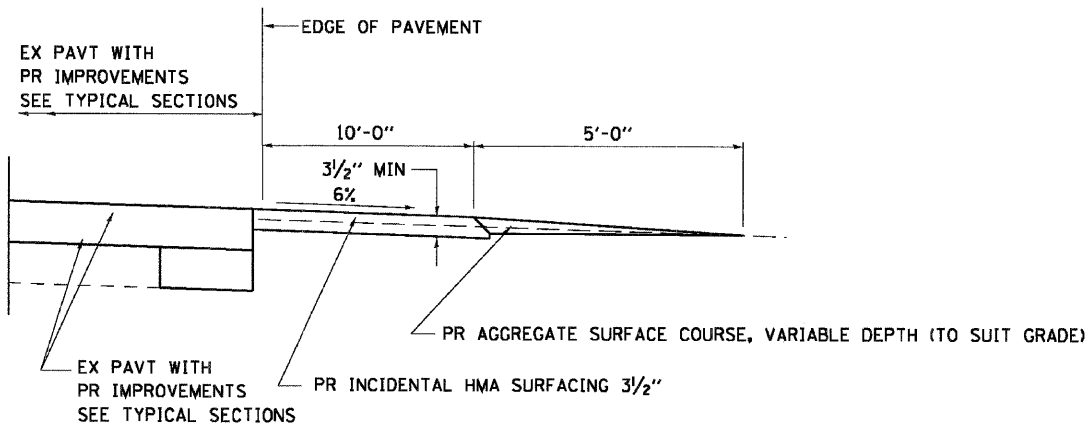
- NOTES:
1. REMOVAL OF THE EXISTING LIME STABILIZED SOIL SHALL BE INCLUDED IN THE COST FOR EARTH EXCAVATION.
 2. EXISTING HOT-MIX ASPHALT SURFACE SHALL BE REMOVED AND STOCKPILED FOR LATER USE. SEE SPECIAL PROVISION "AGGREGATE SHOULDER (SPECIAL)".
 3. PROPOSED PAVEMENT SHALL BE CONSTRUCTED TO MATCH THE EXISTING PROFILE.
 4. SHOULDERS SHALL BE GRADED TO MATCH THE PROPOSED AGGREGATE BASE COURSE PRIOR TO CONSTRUCTING HOT-MIX ASPHALT BINDER AND SURFACE COURSE (COST INCLUDED IN EARTH EXCAVATION).

PAVEMENT DESIGN	
STRUCTURAL DESIGN TRAFFIC:	Year 2019
PV= 490	SU= 80 MU= 5
ROAD/STREET CLASSIFICATION:	Class III
IBV-2.0	TRAFFIC FACTOR= 0.09
PERCENT OF SDT TRAFFIC FOR TWO LANES	
PV= 85%	SU= 14% MU= 1%
PAVEMENT COMPOSITION	
1 1/2" HMA Surface Course, Mix "C" N50	
1 3/4" HMA Binder Course, IL 19.0, N50	
8" Aggregate Base Course, Type B	
8" Lime Modified Soil	

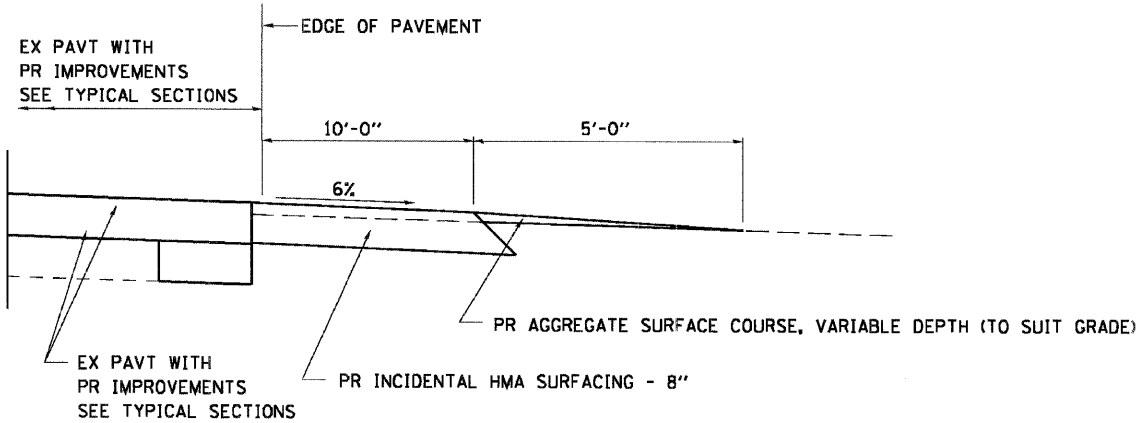




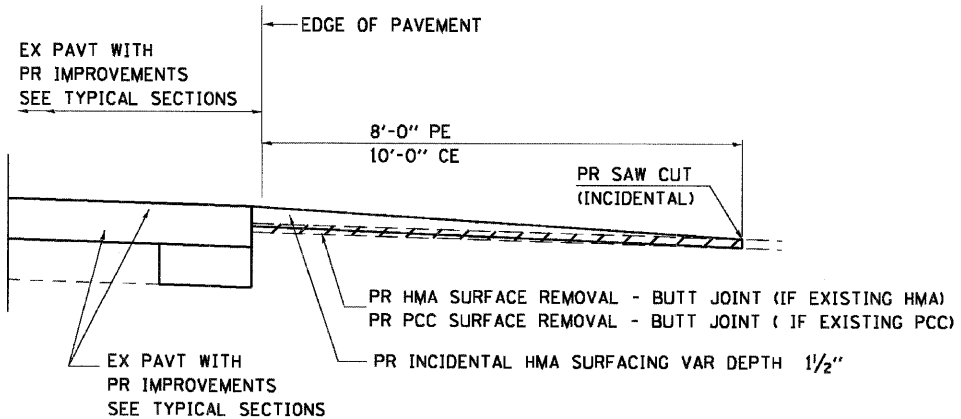
SECTION A-A FOR EX EARTH/AGGREGATE FE



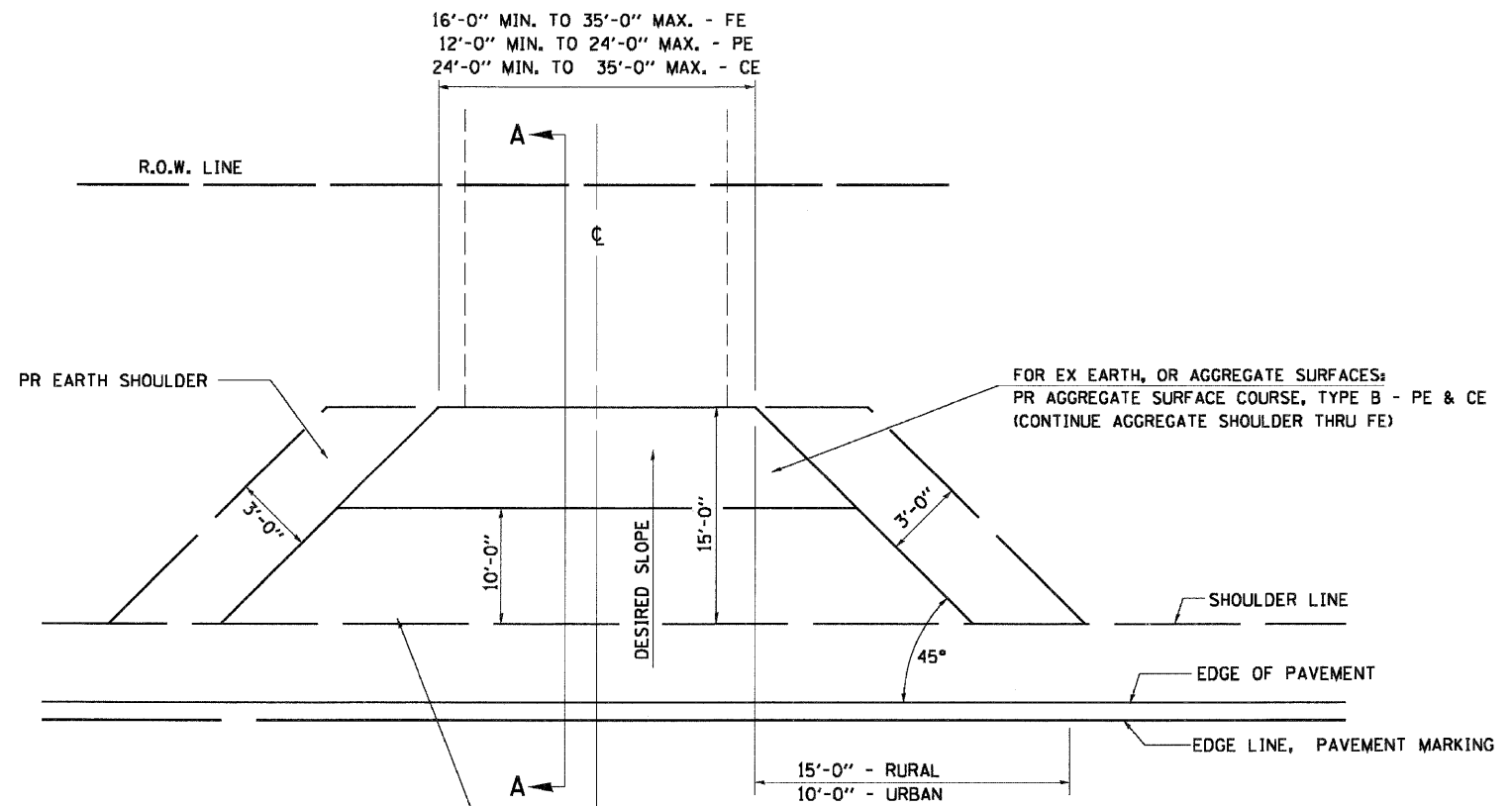
SECTION A-A FOR EX EARTH/AGGREGATE PE



SECTION A-A FOR EX EARTH/AGGREGATE CE & SIDE ROAD



SECTION A-A FOR EX HMA/PC CONCRETE PE, CE & SIDE ROAD



FOR EX EARTH OR AGGREGATE SURFACES:
 PR HMA SURFACE REMOVAL (IF APPLICABLE)
 PR AGGREGATE SHOULDER THRU - FE
 PR INCIDENTAL HMA SURFACING 3 1/2" - PE
 PR INCIDENTAL HMA SURFACING 8" - CE

FOR EX HMA SURFACES:
 PR HMA SURFACE REMOVAL-BUTT JOINT

FOR EX PCC SURFACES:
 PR PCC SURFACE REMOVAL-BUTT JOINT

GENERAL NOTES:

THE RESIDENT ENGINEER WILL DETERMINE THE EXACT TYPE OF IMPROVEMENT TO BE COMPLETED FOR ALL ENTRANCES, SIDEROADS AND MAILBOX TURNOUTS ON THIS PROJECT.

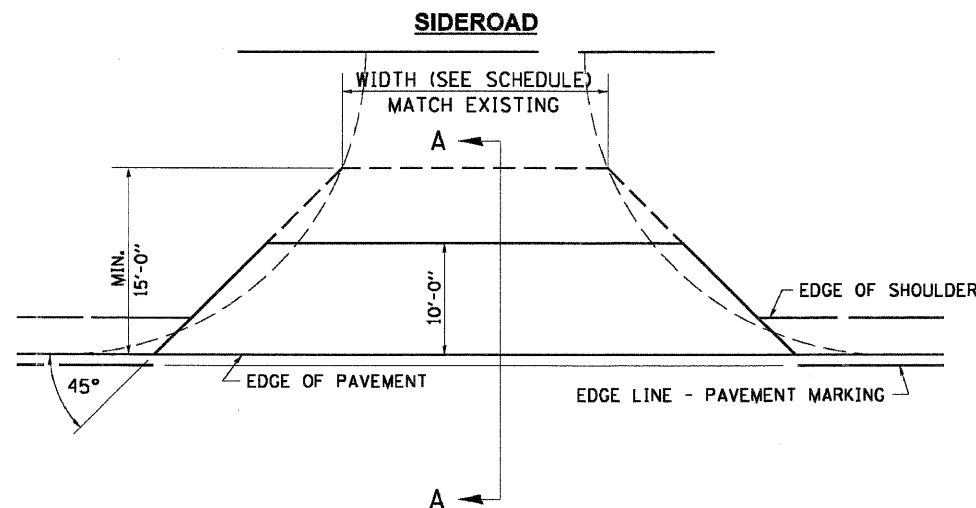
THE PLAN DETAILS AND SCHEDULES SHOULD BE USED AS A GUIDE FOR THE ENGINEER TO IMPLEMENT THE FINAL DESIGN. THE ENGINEER MAY DECIDE TO SALVAGE PORTIONS OF THE EXISTING ENTRANCE PAVEMENT STRUCTURE; THEREFORE, REDUCING PAY ITEM QUANTITIES. NO ADDITIONAL PAYMENT WILL BE ALLOWED FOR THIS REDUCTION IN QUANTITIES.

ANY WORK THE ENGINEER REQUIRES WHICH IS NOT COVERED BY A PAY ITEM CONTAINED IN THE PLANS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

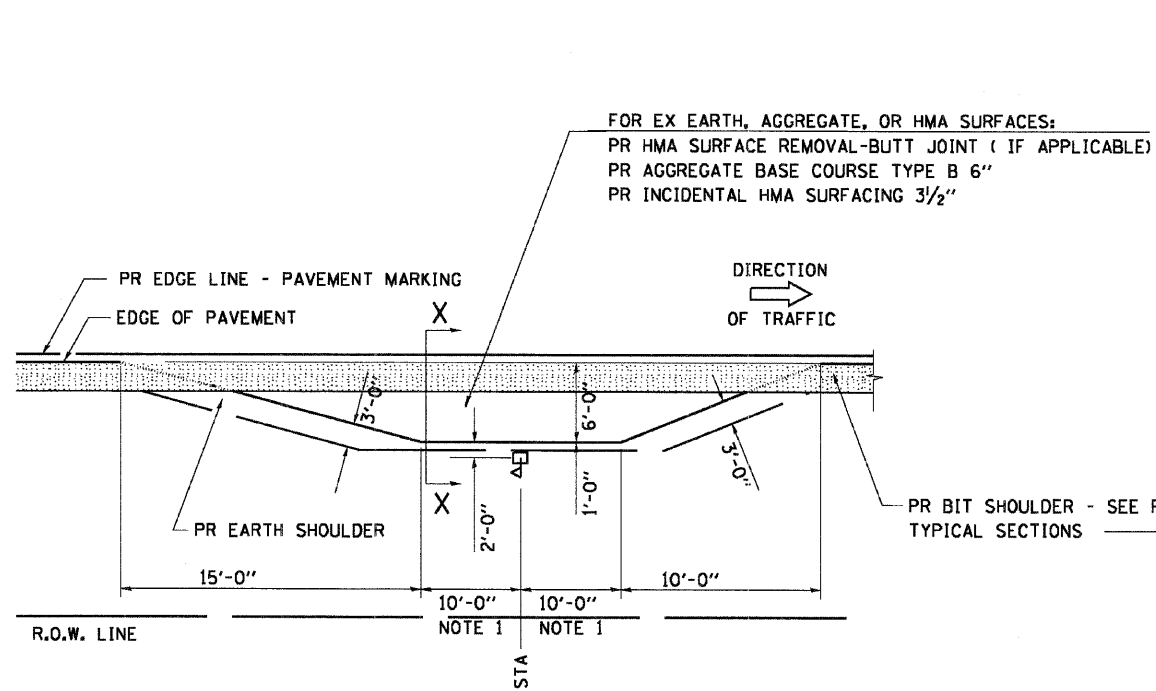
HOT-MIX ASPHALT REQUIRED TO CONSTRUCT THE ENTRANCES SHALL BE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 406 AND 408 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.

WHEN THE HOT-MIX ASPHALT PROPOSED FOR THE IMPROVEMENT IS THICKER THAN 3 INCHES AND REQUIRE PLACEMENT IN MORE THAN ONE LIFT. THE BOTTOM LIFT(S) SHALL MEET THE REQUIREMENTS OF HMA BASE COURSE IN SECTION 406 OF THE STANDARD SPECIFICATIONS AND THE TOP LIFT OF 2 INCHES SHALL MEET THE REQUIREMENTS OF HMA SURFACE COURSE.

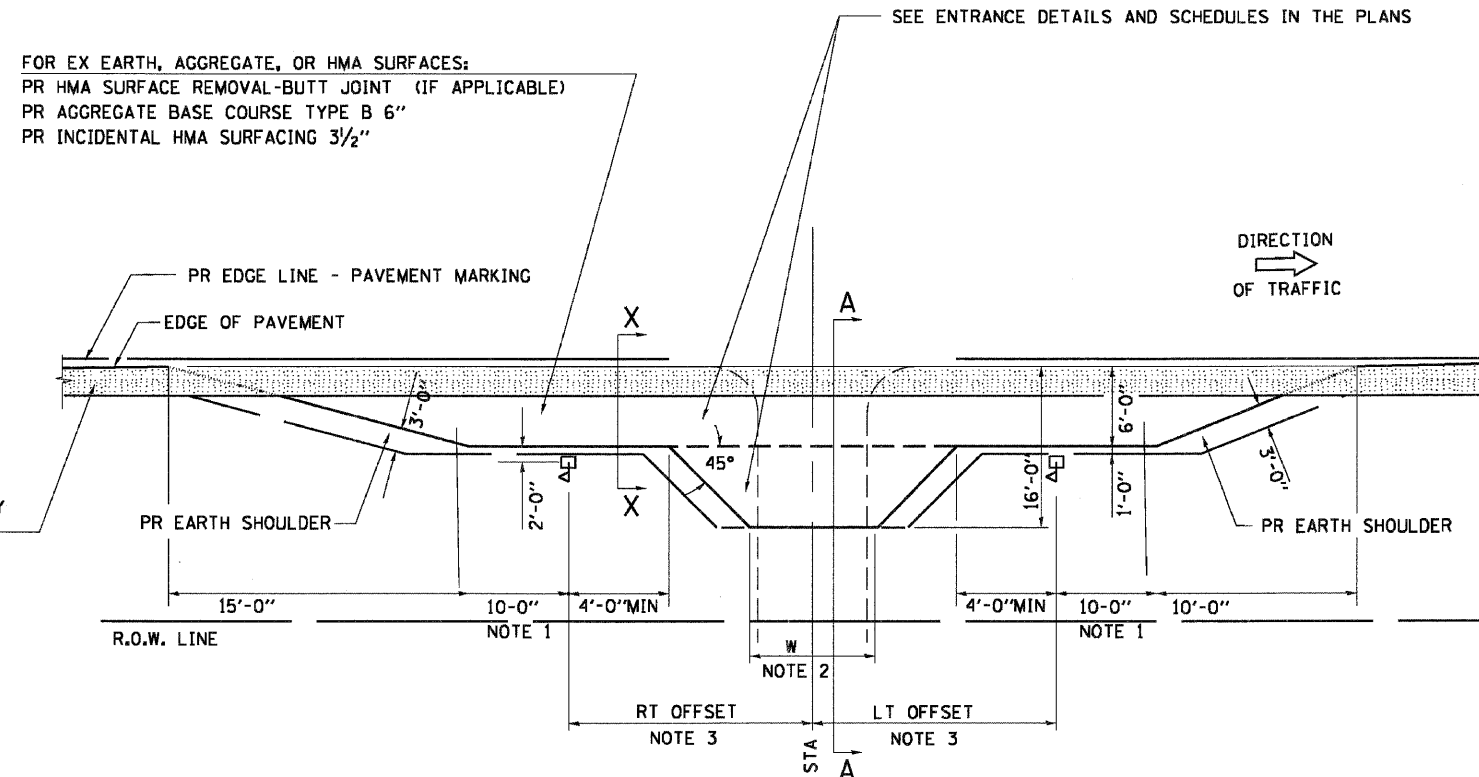
THIS WORK WILL BE PAID FOR IN ACCORDANCE WITH SECTIONS 351, 358, 408, 423 AND 440 OF THE STANDARD SPECIFICATIONS.



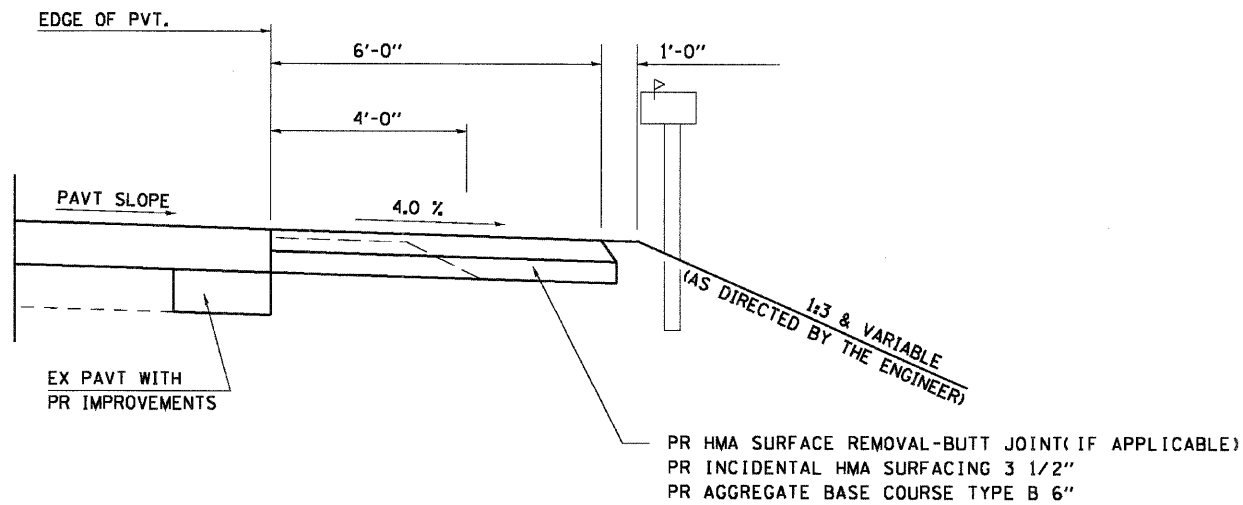
DETAILS OF MAILBOX TURNOUTS



PLAN - MAILBOX TURNOUTS



PLAN - COMBINED MAILBOX TURNOUT WITH TRAILING OR LEADING ENTRANCE



**SECTION X-X THRU MAILBOX TURNOUT
 ALSO APPLIES TO MAILBOX TURNOUTS COMBINED WITH
 EX EARTH, AGGREGATE, OR HMA PE & FE**

(DETAIL APPLIES WHEN M.B. TURNOUT DOES NOT EXIST.
 IF EXISTING, TREAT SAME AS ENTRANCE.)

- NOTE 1 IF MORE THAN ONE MAILBOX IS PRESENT, DIMENSION FROM CENTER OF END MAILBOX.
- NOTE 2 FOR ENTRANCE LAYOUT DIMENSIONS AND SECTION A-A REFER TO THE SCHEDULES IN THE PLANS.
- NOTE 3 BOTH LT OR RT OFFSETS FOR MAILBOX SHOWN USE OFFSET DIMENSION PER SCHEDULE AND REFER TO LAYOUT SHOWN ON THE PLAN.