

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PROPOSED
HIGHWAY PLANS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(16,17,18)RS-2	LAWRENCE	40	1
		ILLINOIS	CONTRACT NO. 94977	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

STATION EQUATIONS:

STA. 38+05.46 (BK) = STA. 38+15.72 (AH)
 STA. 64+73.00 (BK) = STA. 57+11.10 (AH)
 STA. 141+92.10 (BK) = STA. 142+10.78 (AH)
 STA. 299+15.58 (BK) = STA. 299+00.44 (AH)

PAVING OMISSIONS:

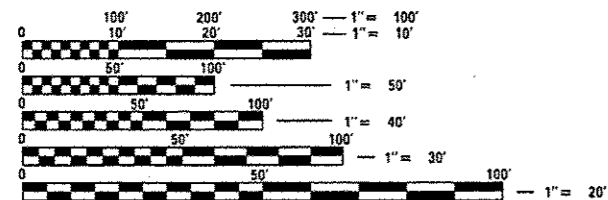
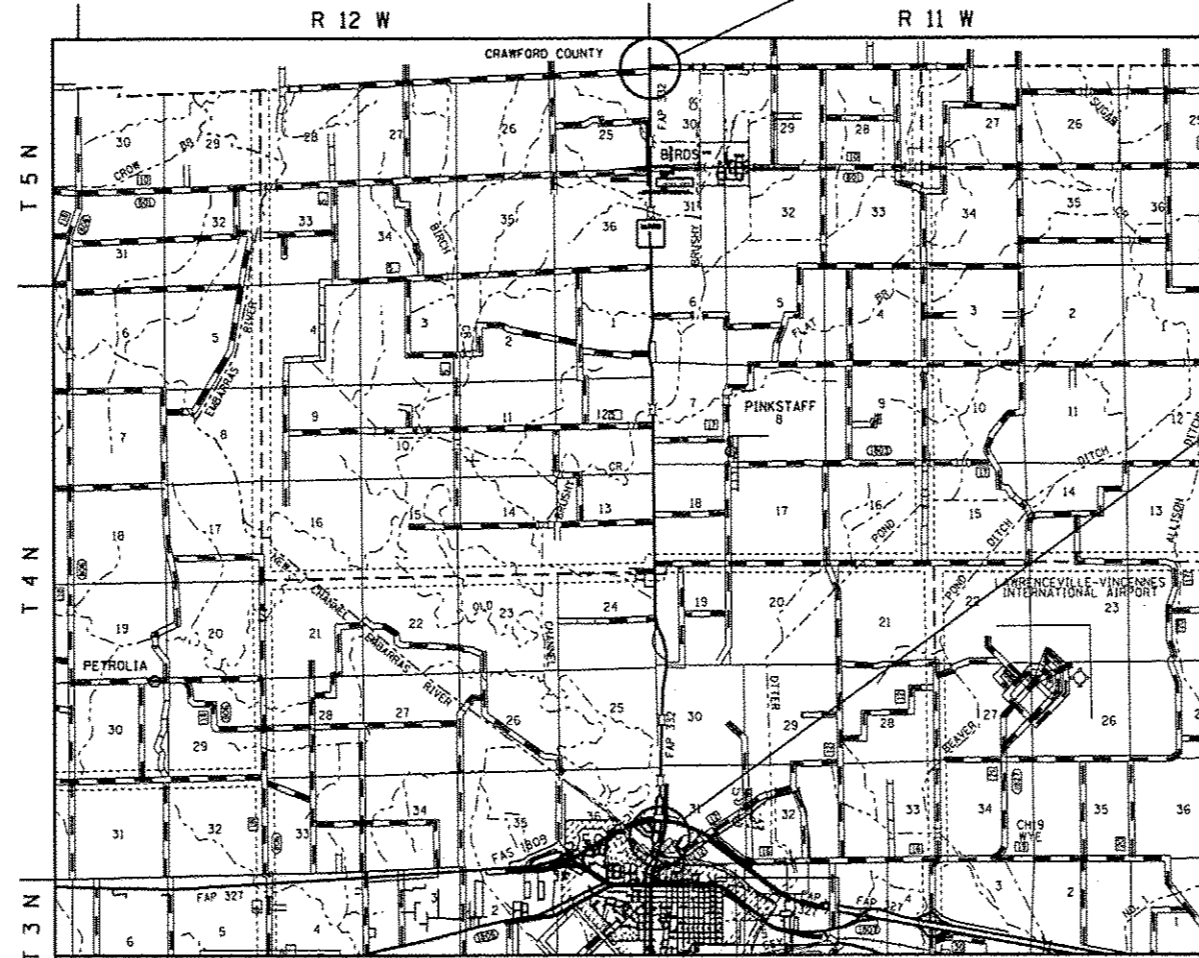
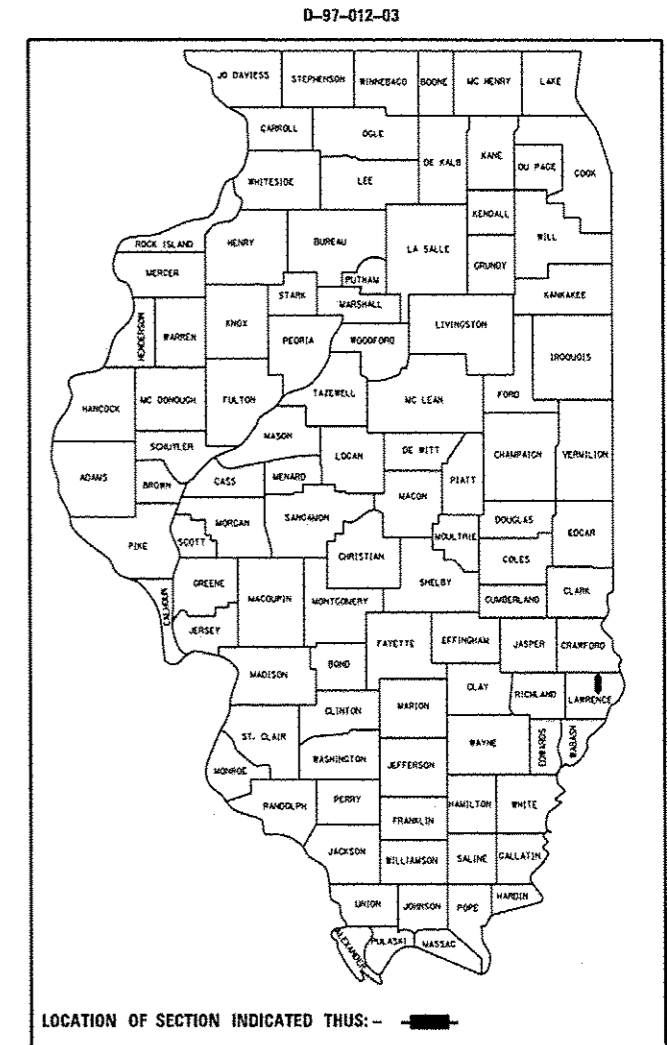
STA. 54+73 TO STA. 63+18
 STA. 83+10 TO STA. 86+85
 STA. 253+20 TO STA. 255+40
 STA. 304+28 TO STA. 304+46

ADT = 4,297 (2009)

F.A.P. ROUTE 332 (IL. RTE. 1)
SECTION (16,17,18)RS-2
PROJECT NHPP-0332(112)
RESURFACING (3P)
LAWRENCE COUNTY

C-97-025-03

FAP ROUTE 332 (IL RTE 1)
 SECTION (16,17,18)RS-2
 LAWRENCE COUNTY
 ENDS STA. 440+73



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

PROJECT ENGINEER: TOM RONAN
 PROJECT MANAGER: BRETT WALKER
 PHONE: (217)-342-8314
 CONTRACT NO. 94977

GROSS LENGTH = 42,437 FT. = 8.04 MILES
 NET LENGTH = 40,978 FT. = 7.76 MILES

FAP ROUTE 332 (IL RTE 1)
 SECTION (16,17,18)RS-2
 LAWRENCE COUNTY
 BEGINS STA. 23+85

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

SUBMITTED Oct 19 20 12
Roger L. Driscoll, JCS
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

March 22 20 13
John D. Baramy, PE, JCS
 ENGINEER OF DESIGN AND ENVIRONMENT

March 22 20 13
Omair Osman, PE, JCS
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS

INDEX OF SHEETS

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2	INDEX OF SHEETS & HIGHWAY STANDARDS
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36	TRAFFIC CONTROL DETAIL
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THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDED AFTER SHEET NO. 40 :

STD. NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND FOOT
406201-01	MAILBOX TURNOUT
442201-03	CLASS C AND D PATCHES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTIONS
601001-04	SUBSURFACE DRAINS
601101-01	CONCRETE HEADWALL FOR PIPE DRAINS
602306-03	INLET - TYPE B
604051-03	FRAME & GRATE TYPE 11
606001-05	CONCRETE CURB TYPE B & COMBINATION CONCRETE CURB & GUTTER
630001-10	STEEL PLATE BEAM GUARDRAIL
631031-11	TRAFFIC BARRIER TERMINAL TYPE 6
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER & MOUNT DETAILS
667101-02	PERMANENT SURVEY MARKERS
701001-02	OFF-RD OPERATIONS, 2L, 2W, 15' MINIMUM FROM PAVEMENT EDGE, 45 MPH +
701006-04	OFF-RD OPERATIONS, 2L, 2W, 15' TO EDGE OF PAVEMENT, 45 MPH +
701011-03	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY, 45 MPH +
701101-03	OFF-RD OPERATIONS, MULTI-LANE, LESS THAN 15' TO EDGE OF PAVEMENT
701106-02	OFF-RD OPERATIONS, MULTI-LANE, 15' MINIMUM FROM PAVEMENT EDGE
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-03	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, 45 MPH +
701311-03	LANE CLOSURE 2L, 2W, MOVING OPERATIONS - DAY ONLY
701316-07	LANE CLOSURE 2L, 2W, BRIDGE REPAIRS
701421-05	LANE CLOSURE, MULTI-LANE, DAY OPERATIONS ONLY, 45 - 55 MPH
701426-05	LANE CLOSURE, MULTI-LANE, INTERMITTENT OR MOVING OPERATIONS, 45 MPH +
701451-01	RAMP CLOSURE, FREEWAY/EXPRESSWAY
701901-02	TRAFFIC CONTROL DEVICES
780001-03	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

FILE NAME =	USER NAME = stafffanek	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS AND STANDARDS IN THE PLANS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pwork\pwork\stafffanek\d2263618\07	4977-sh.t-index.dgn	DRAWN -	REVISED -			332	(16.17.18)RS-2	LAWRENCE	40	2	
	PLOT SCALE = 1/8"=1'-0"	CHECKED -	REVISED -			CONTRACT NO. 94977					
	PLOT DATE = 1/29/2013	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
						SCALE: NA	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.		

GENERAL NOTES

THIS SECTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS; THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED JANUARY 1, 2012; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", ADOPTED JANUARY 1, 2012, AND THE SPECIAL PROVISIONS INCLUDED IN THIS PROPOSAL.

THE WORK INCLUDED IN THIS SECTION CONSISTS OF EXTENDING A BOX CULVERT, PAVEMENT PATCHING, MILLING, PLACEMENT OF HOT-MIX ASPHALT LEVEL BINDER AND SURFACE COURSE, AGGREGATE SHOULDERS, GUARDRAIL REMOVAL AND REPLACEMENT, PAVEMENT MARKING, AND ANY OTHER WORK NECESSARY TO COMPLETE THIS SECTION.

THE BOX CULVERT AT STATION 434+16 SHALL HAVE THE EXISTING CMP EXTENSIONS REMOVED AND REPLACED WITH PRECAST CONCRETE BOX CULVERT EXTENSIONS AND PRECAST END SECTIONS. REMOVING ANY EXISTING CONCRETE COLLARS WILL BE INCLUDED IN THE COST OF PIPE CULVERT REMOVAL AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

AT THE RAMPS FOR THE ILLINOIS ROUTE 1 AND US ROUTE 50 INTERCHANGE, THE CONTRACTOR SHALL HAVE THE HMA BINDER IN PLACE THE SAME DAY AS THE COMPLETION OF THE HMA SURFACE REMOVAL.

THE CONTRACTOR SHALL USE EITHER RC-70, SS1H, OR SS-1HP, APPLIED AT THE RATE DIRECTED BY THE ENGINEER, FOR THE PAY ITEM BITUMINOUS MATERIALS (PRIME COAT).

THE CONTRACTOR SHALL PROVIDE INTERNET ACCESSIBILITY TO THE HOT-MIX ASPHALT PLANT QUALITY CONTROL LAB SO THAT HOT-MIX ASPHALT PLANT REPORTS CAN BE E-MAILED TO THE DISTRICT HEADQUARTERS. THIS WORK SHALL BE INCLUDED IN THE COST OF ALL HOT-MIX ASPHALT ITEMS.

THE RESIDENT ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE CURING TIME FOR THE VARIOUS HOT-MIX ASPHALT LIFTS, HOT-MIX ASPHALT SHOULDERS, AND THE CLASS D PATCHES.

THE PAY ITEM TEMPORARY RAMP HAS BEEN INCLUDED FOR THE CONSTRUCTION OF TEMPORARY RAMPS IN ACCORDANCE WITH ARTICLE 406.08 OF THE STANDARD SPECIFICATIONS. THE CONTRACT UNIT PRICE PER SQUARE YARD FOR TEMPORARY RAMP SHALL INCLUDE BOTH THE INSTALLATION AND THE REMOVAL OF THE RAMPS.

THE MATERIAL USED FOR AGGREGATE SHOULDERS, TYPE B SHALL BE CRUSHED STONE, CRUSHED CONCRETE, OR RAP. THE MATERIAL USED FOR AGGREGATE SURFACE COURSE, TYPE B SHALL BE CRUSHED STONE OR CRUSHED CONCRETE.

THE EXISTING PAVEMENT SHALL BE PATCHED IN ACCORDANCE WITH SECTION 442 OF THE STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS. CLASS D PAVEMENT PATCHING IS INCLUDED FOR PATCHING THE PAVEMENT ON ILLINOIS ROUTE 1. ESTIMATED QUANTITIES OF PAVED SHOULDER REMOVAL AND HOT-MIX ASPHALT SHOULDERS, 8" HAVE BEEN INCLUDED FOR REPAIRING PAVED SHOULDER. THE QUANTITIES OF PATCHING, PAVED SHOULDER REMOVAL, AND HOT-MIX ASPHALT SHOULDERS, 8" SHOWN IN THE PLANS ARE ESTIMATES ONLY, THE FINAL LOCATIONS AND QUANTITIES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

PAVEMENT MARKING SHALL BE APPLIED IN ACCORDANCE WITH SECTION 780 OF THE STANDARD SPECIFICATIONS. SHORT TERM PAVEMENT MARKING SHALL BE APPLIED TO THE MILLED SURFACE, BITUMINOUS MATERIALS (PRIME COAT), HOT-MIX ASPHALT LEVELING BINDER, AND HOT-MIX ASPHALT SURFACE COURSE AS SPECIFIED IN SECTION 703 OF THE STANDARD SPECIFICATIONS. TEMPORARY TAPE SHALL BE USED ON THE SURFACE COURSE AND PAINT SHALL BE USED ON MILLED SURFACES.

THE TOTAL QUANTITY OF PAINT PAVEMENT MARKING - LINE 4" CONSISTS OF 25,940 FEET OF YELLOW AND 85,097 FEET OF WHITE. THE TOTAL QUANTITY OF THERMOPLASTIC PAVEMENT MARKING - LINE 6" CONSISTS OF 260 FEET OF WHITE. THE TOTAL QUANTITY OF THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS" CONSISTS OF 47 SQUARE FEET OF WHITE.

RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 781 OF THE STANDARD SPECIFICATIONS. THE TOTAL QUANTITY OF RAISED REFLECTIVE PAVEMENT MARKERS CONSISTS OF 505 TWO-WAY AMBER MARKERS AND 60 ONE-WAY CRYSTAL MARKERS.

GENERAL NOTES (Cont'd)

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

MIXTURE USE: SURFACE COURSE (1 1/2") (TWO LANE SECTION)
 APPLICATION: HOT MIX ASPHALT SURFACE COURSE, MIX D, N70
 PG GRADE: PG 64-22
 DESIGN AIR VOIDS: 4.0% @ DESIGN = 70
 MIXTURE COMPOSITION: IL-9.5
 FRICTION AGGREGATE: MIXTURE D

MIXTURE USE: SURFACE COURSE (1 1/2") (FOUR LANE SECTION AND RAMPS)
 APPLICATION: POLYMERIZED HOT MIX ASPHALT SURFACE COURSE, IL-9.5, N10S
 PG GRADE: SBS PG 70-22
 DESIGN AIR VOIDS: 4.0% @ DESIGN = 105
 MIXTURE COMPOSITION: IL-9.5
 FRICTION AGGREGATE: MIXTURE D

MIXTURE USE: LEVELING BINDER (3/4") (TWO LANE SECTION)
 APPLICATION: HOT MIX ASPHALT LEVEL BINDER (MACHINE METHOD), N70
 PG GRADE: PG 64-22
 DESIGN AIR VOIDS: 4.0% @ DESIGN = 70
 MIXTURE COMPOSITION: IL-9.5
 FRICTION AGGREGATE: N/A

MIXTURE USE: LEVELING BINDER (VARIABLE DEPTH) (FOUR LANE SECTION)
 APPLICATION: HOT MIX ASPHALT LEVEL BINDER (MACHINE METHOD), N90
 PG GRADE: PG 64-22
 DESIGN AIR VOIDS: 4.0% @ DESIGN = 90
 MIXTURE COMPOSITION: IL-9.5
 FRICTION AGGREGATE: N/A

MIXTURE USE: HMA BINDER (2.50") (RAMPS)
 APPLICATION: POLYMERIZED HOT MIX ASPHALT BINDER COURSE, IL-19.0, N90
 PG GRADE: SBS PG 70-22
 DESIGN AIR VOIDS: 4.0% @ DESIGN = 90
 MIXTURE COMPOSITION: IL-19.0
 FRICTION AGGREGATE: N/A

MIXTURE USE: INCIDENTAL HMA
 APPLICATION: HOT MIX ASPHALT SURFACE COURSE, MIX C, N50
 PG GRADE: PG 64-22
 DESIGN AIR VOIDS: 4.0% @ DESIGN = 50
 MIXTURE COMPOSITION: IL-9.5
 FRICTION AGGREGATE: MIXTURE C

MIXTURE USE: CLASS D PAVEMENT PATCHING
 APPLICATION: HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70
 PG GRADE: PG 64-22
 DESIGN AIR VOIDS: 4.0% @ DESIGN = 70
 MIXTURE COMPOSITION: IL-19.0
 FRICTION AGGREGATE: N/A

MIXTURE USE: PARTIAL DEPTH PAVEMENT PATCHING
 APPLICATION: HOT MIX ASPHALT BINDER COURSE, IL-19.0, N70
 PG GRADE: PG 64-22
 DESIGN AIR VOIDS: 4.0% @ DESIGN = 70
 MIXTURE COMPOSITION: IL-19.0
 FRICTION AGGREGATE: N/A

MIXTURE USE: SHOULDER REMOVAL AND REPLACEMENT, 8" (FOR PIPE UNDERDRAINS) AND HMA SHOULDERS, 8" (SQ YD-REPAIR)
 APPLICATION: HOT MIX ASPHALT BINDER COURSE, IL-19.0, N70
 PG GRADE: PG 64-22
 DESIGN AIR VOIDS: 4.0% @ DESIGN = 70
 MIXTURE COMPOSITION: IL-19.0
 FRICTION AGGREGATE: N/A

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

HOT MIX ASPHALT	112 LBS/SQ YD/IN
BITUMINOUS MATERIALS PRIME COAT	0.10 GALLONS/SQ YD
AGGREGATE PRIME COAT	2.00 LBS/SQ YD
GRANULAR MATERIAL	2.05 TONS/CU YD

FILE NAME: c:\pwork\pvidat\staff\enck\10263618\07	USER NAME: staff/enck	DESIGNED: -	REVISED: -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES	F.A.P. RTE.:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	14977-ahs-index.dgn	DRAWN: -	REVISED: -			332	(16,17,18)RS-2	LAWRENCE	40	3	
	PLOT SCALE: 1/8" = 1'-0"	CHECKED: -	REVISED: -			CONTRACT NO. 94977					
	PLOT DATE: 10/15/2012	DATE: -	REVISED: -			SCALE: NA	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		80% FED 20% STATE 0005		
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	11.5	11.5		
20800150	TRENCH BACKFILL	CU YD	5	5		
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	214	214		
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	14877	14877		
40600300	AGGREGATE (PRIME COAT)	TON	298	298		
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	5450	5450		
40600645	LEVELING BINDER (MACHINE METHOD), N90	TON	1220	1220		
40600895	CONSTRUCTING TEST STRIP	EACH	1	1		
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	900	900		
40600990	TEMPORARY RAMP	SQ YD	180	180		
40603240	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90	TON	394	394		
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	10938	10938		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		80% FED 20% STATE 0005		
40603550	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N105	TON	1558	1558		
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	296	296		
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	343	343		
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	7669	7669		
44000162	HOT-MIX ASPHALT SURFACE REMOVAL, 3 1/4"	SQ YD	8238	8238		
44000165	HOT-MIX ASPHALT SURFACE REMOVAL, 4"	SQ YD	2811	2811		
44000300	CURB REMOVAL	FOOT	22	22		
44004250	PAVED SHOULDER REMOVAL	SQ YD	1367	1367		
44201811	CLASS D PATCHES, TYPE I, 14 INCH	SQ YD	20	20		
44201815	CLASS D PATCHES, TYPE II, 14 INCH	SQ YD	2311	2311		
44201819	CLASS D PATCHES, TYPE III, 14 INCH	SQ YD	477	477		
44201821	CLASS D PATCHES, TYPE IV, 14 INCH	SQ YD	1170	1170		
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	4021	4021		

FILE NAME :	USER NAME : steffanrk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwwork\pwwork\steffanrk\0263618\01	4977-shl-soq.dgn	DRAWN -	REVISED -					332	(16,17,18)RS-2	LAWRENCE	40	4
	PLOT SCALE = 1/8" = 1' in.	CHECKED -	REVISED -		SCALE: NA	SHEET NO. 1 OF 4 SHEETS	STA.	TO STA.	CONTRACT NO. 94977			
	PLOT DATE = 10/15/2012	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		80% FED 20% STATE 0005		
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SO YD	1367	1367		
50105220	PIPE CULVERT REMOVAL	FOOT	31	31		
50300225	CONCRETE STRUCTURES	CU YD	44	44		
50800105	REINFORCEMENT BARS	POUND	80	80		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	3,210	3,210		
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2	2		
54002020	EXPANSION BOLTS 3/4 INCH	EACH	16	16		
54010302	PRECAST CONCRETE BOX CULVERTS 3' X 2'	FOOT	27	27		
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	1	1		
54248510	CONCRETE COLLAR	CU YD	1.6	1.6		
550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	40	40		
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	11	11		
60100074	SHOULDER REMOVAL AND REPLACEMENT 8"	FOOT	4925	4925		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		80% FED 20% STATE 0005		
60107700	PIPE UNDERDRAINS 6"	FOOT	6590	6590		
60108200	PIPE UNDERDRAINS 6" (SPECIAL)	FOOT	220	220		
60240310	INLETS, TYPE B, TYPE 11 FRAME AND GRATE	EACH	1	1		
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	75	75		
* 63100089	TRAFFIC BARRIER TERMINAL, TYPE 6B	EACH	2	2		
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2	2		
63200310	GUARDRAIL REMOVAL	FOOT	562	562		
66700205	PERMANENT SURVEY MARKERS, TYPE 1	EACH	16	16		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6		
67100100	MOBILIZATION	L SUM	1	1		
70100100	TRAFFIC CONTROL AND PROTECTION, STANDARD 701316	EACH	1	1		
70100310	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	L SUM	1	1		

*SPECIALTY ITEM

FILE NAME : c:\pwwork\p1dot\stefanek\d0263618\07	USER NAME : stefanek	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.P. RTE. 332	SECTION (16,17,18)RS-2	COUNTY LAWRENCE	TOTAL SHEETS 40	SHEET NO. 5
		DRAWN -	REVISED -		SCALE: NA	SHEET NO. 2 OF 4 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT				
		CHECKED -	REVISED -									
		DATE	REVISED -									

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		80% FED 20% STATE 0005		
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1		
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1		
70100820	TRAFFIC CONTROL AND PROTECTION, STANDARD 701451	L SUM	1	1		
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	4	4		
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1		
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	13778	13778		
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SO FT	47	47		
70300220	TEMPORARY PAVEMENT MARKING LINE 4"	FOOT	111038	111038		
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	260	260		
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	1531	1531		
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	47	47		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		80% FED 20% STATE 0005		
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	260	260		
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	111038	111038		
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	565	565		
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	8	8		
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	2	2		
X0322936	REMOVE EXISTING FLARED END SECTION	EACH	2	2		
* X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.5	0.5		
X4060995	TEMPORARY RAMP, SPECIAL	SO YD	156	156		
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SO YD	128475	128475		
X4421000	PARTIAL DEPTH PATCHING	TON	1242	1242		
X4422000	PARTIAL DEPTH REMOVAL (VARIABLE DEPTH)	SO YD	3170	3170		
X6061005	CONCRETE CURB, TYPE B (SPECIAL)	FOOT	27	27		
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SO FT	17	17		

SUMMARY OF QUANTITIES			TOTAL	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT	QUANTITIES	80% FED 20% STATE 0005	
Z0026407	TEMPORARY SHEET PILING	SO FT	564	564	
Z0049799	PROTECTING OR RESETTING SURVEY MARKERS	EACH	3	3	
Z0054505	ROCK FILL - REPLACEMENT	TON	24	24	
Z0070202	SURVEY MARKER VAULT	EACH	2	2	
Z0076870	UNDERDRAIN CONNECTION TO STRUCTURE	EACH	4	4	

FILE NAME * c:\pwork\pudat\stef\enrk\d9263618\07	USER NAME * stef/enrk	DESIGNED -	REVISED -
	4977-shr-soq.dgn	DRAWN -	REVISED -
	PLOT SCALE * 100.0000 / 1 in.	CHECKED -	REVISED -
	PLOT DATE * 10/15/2012	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

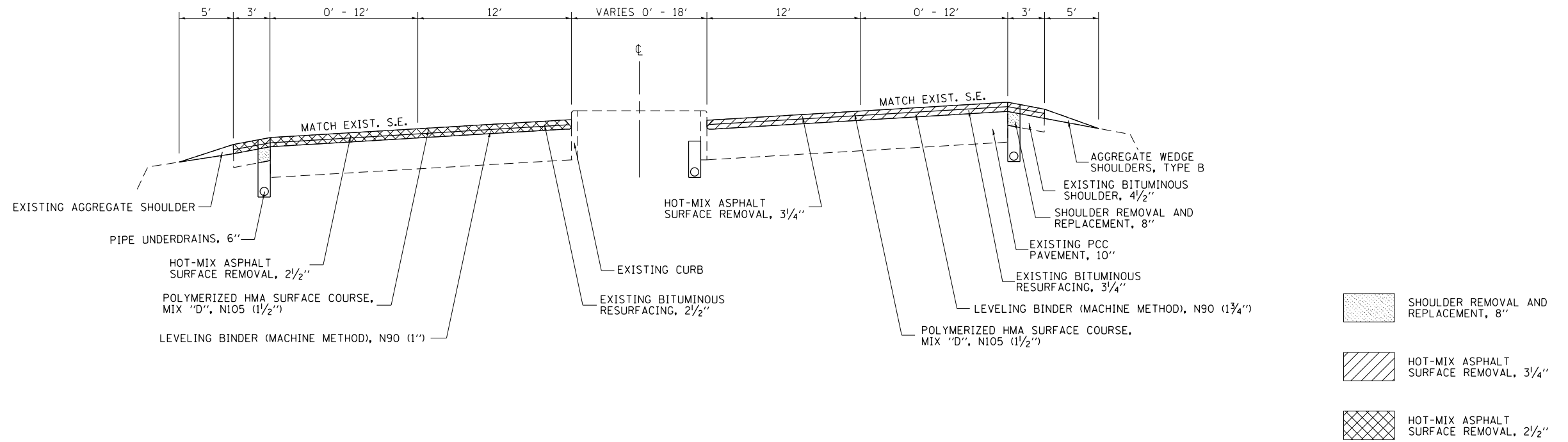
SUMMARY OF QUANTITIES




SCALE: NA SHEET NO. 4 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(16,17,18)RS-2	LAWRENCE	40	7
CONTRACT NO. 94977				
ILLINOIS FED. AID PROJECT				

TYPICAL CROSS SECTION

STA 23+85 TO STA 50+16

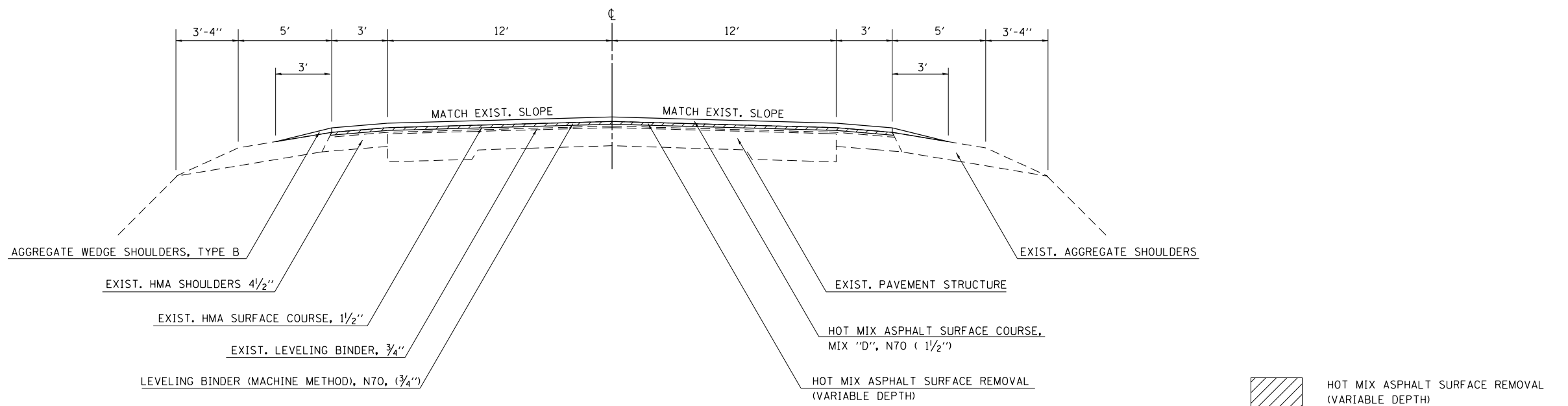


-  SHOULDER REMOVAL AND REPLACEMENT, 8"
-  HOT-MIX ASPHALT SURFACE REMOVAL, 3 1/4"
-  HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"

NOTE: NOT DRAWN TO SCALE

TYPICAL CROSS SECTION

STA. 50+16 TO STA. 176+43
 STA. 192+64 TO STA. 362+43
 STA. 363+43 TO STA. 440+73



-  HOT MIX ASPHALT SURFACE REMOVAL (VARIABLE DEPTH)

NOTE: NOT DRAWN TO SCALE

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
ct:\pw\work\p\dot\steffenmk\d0263618\0784977-sh-typical.dgn		DRAWN -	REVISED -
	PLOT SCALE = 100.0000' / 1\"/>		

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

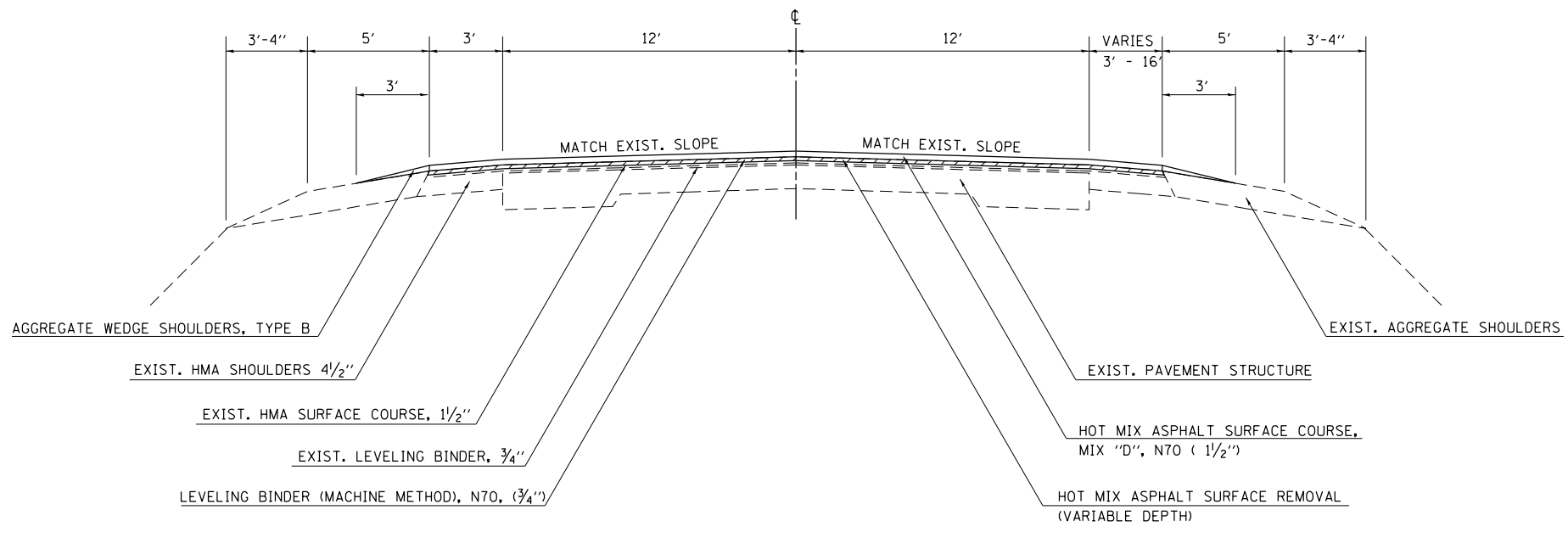
TYPICAL CROSS SECTIONS


SCALE: NA SHEET NO. 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(16.17,18)RS-2	LAWRENCE	40	8
CONTRACT NO. 94977			ILLINOIS FED. AID PROJECT	

TYPICAL CROSS SECTION

STA. 176+43 TO STA. 192+64

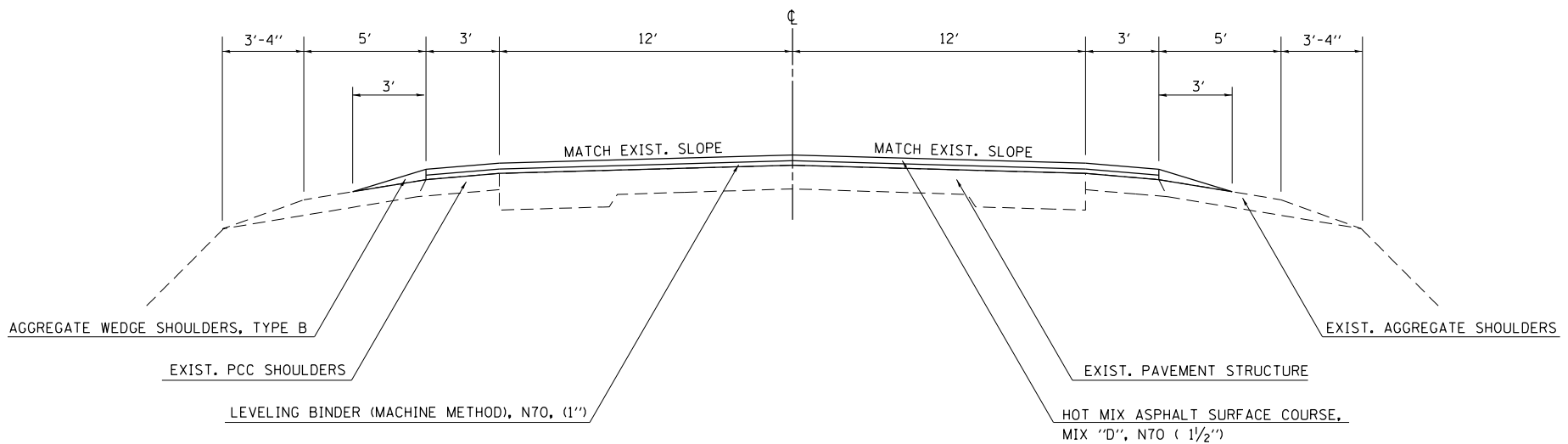


 HOT MIX ASPHALT SURFACE REMOVAL (VARIABLE DEPTH)

NOTE: NOT DRAWN TO SCALE

TYPICAL CROSS SECTION

STA. 362+43 TO STA. 363+43



NOTE: NOT DRAWN TO SCALE

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	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/15/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

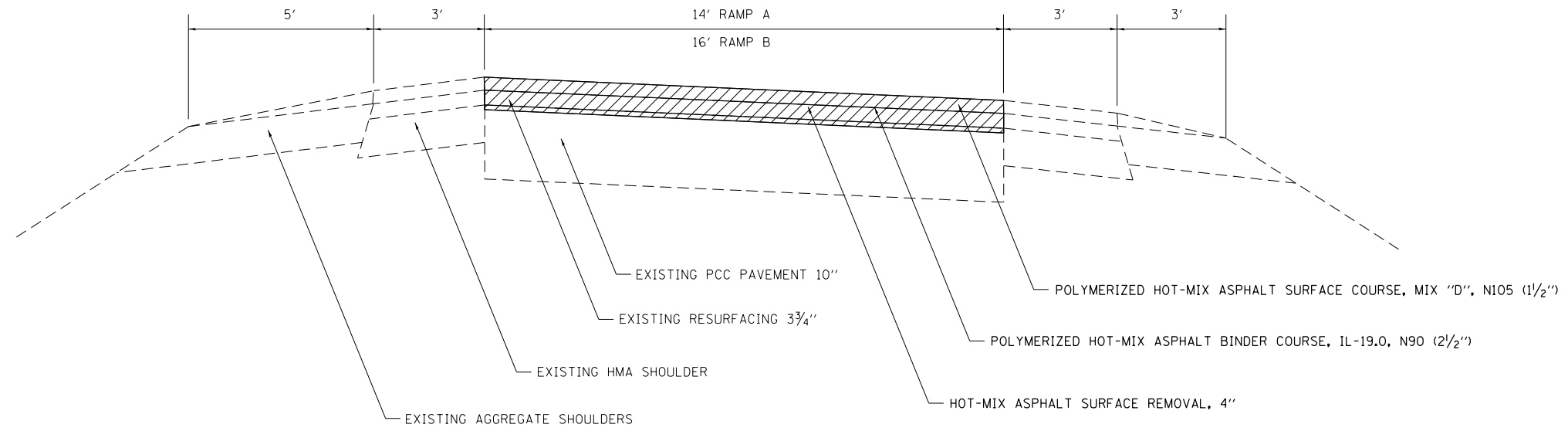
TYPICAL CROSS SECTIONS

SCALE: NA SHEET NO. 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(16.17,18)RS-2	LAWRENCE	40	9
CONTRACT NO. 94977			ILLINOIS FED. AID PROJECT	

TYPICAL CROSS SECTIONS

STA 1+00 TO STA 9+72 (RAMP A)
STA 1+00 TO STA 9+55 (RAMP B)



HOT-MIX ASPHALT SURFACE REMOVAL, 4"

NOTE: NOT DRAWN TO SCALE

NOTE: NOT DRAWN TO SCALE

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
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	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED -
	PLOT DATE = 10/15/2012	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL CROSS SECTIONS

SCALE: NA SHEET NO. 3 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(16,17,18)RS-2	LAWRENCE	40	10
CONTRACT NO. 94977				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

RESURFACING SCHEDULE

STATION TO STATION	LANE	LENGTH	WIDTH OF RESURFACING (PAVEMENT PLUS HMA SHOULDERS)	AREA	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	HOT-MIX ASPHALT SURFACE REMOVAL, 3 1/4"	HOT-MIX ASPHALT SURFACE REMOVAL, 4"	BITUMINOUS MATERIALS (PRIME COAT)	AGGREGATE (PRIME COAT)	POLYMERIZED HMA SURFACE, MIX "D", N105	LEVELING BINDER, MACHINE METHOD, N90	POLYMERIZED HMA BINDER COURSE, IL-19, N90	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	LEVELING BINDER MACHINE METHOD, N70	AGGREGATE WEDGE SHOULDER, TYPE B	TEMPORARY RAMP	TEMPORARY RAMP, SPECIAL
LOCATION		FOOT	FOOT	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	GALLON	TON	TON	TON	TON	TON	TON	TON	SO YD	SO YD
NORTHBOUND																				
23+85 TO 24+62	NB	77.00	27.0	2079					231		23	0.5	19	23				7	15.0	
24+62 TO 27+12	NB	250.00	27.0-39.0	8250					917		92	1.8	77	90				24		
27+12 TO 29+62	NB	250.00	39.0	9750					1083		108	2.2	91	106				24		
29+62 TO 30+38	NB	76.00	45.0	3420					380		38	0.8	32	37				7		
30+38 TO 30+96	NB	58.00	45.0-27.0	2088					232		23	0.5	20	23				6		
30+96 TO 38+05.46	NB	709.46	27.0	19155					2128		213	4.3	179	209				67		
38+05.46 BK = 38+15.72AH	NB	STATION EQUATION																		
38+15.72 TO 44+88	NB	672.28	27.0	18152					2017		202	4.0	169	198				64		
44+88 TO 47+67	NB	279.00	27.0-17.0	6138					682		68	1.4	57	67				26		
47+67 TO 50+16	NB	249.00	17.0-12.0	3611					401		40	0.8	34	39				24		
SOUTHBOUND																				
23+85 TO 27+80	SB	395.00	27.0	10665				1185			119	2.4	100	66				37	15.0	
27+80 TO 31+30	SB	350.00	24.0	8400				933			93	1.9	78	52						156.0
31+30 TO 38+05.46	SB	675.46	27.0	18237				2026			203	4.1	170	113				64		
38+05.46 BK = 38+15.72AH	SB	STATION EQUATION																		
38+15.72 TO 44+80	SB	664.28	27.0	17936				1993			199	4.0	167	112				63		
44+80 TO 47+67	SB	287.00	27.0-30.0	8180				909			91	1.8	76	51				27		
47+67 TO 50+16	SB	249.00	30.0-15.0	5603				623			62	1.2	52	35				24		
NORTHBOUND AND SOUTHBOUND																				
50+16 TO 50+66		50.00	30.0	1500					167		17	0.3				14	10	5		
50+66 TO 54+43		377.00	30.0	11310				1257			126	2.5				106	53	33		
54+43 TO 54+73		30.00	30.0	900	100						10	0.2				8	2	3	16.7	
54+73 TO 63+18	BRIDGE	845.00	BRIDGE OMMISION															78		
63+18 TO 63+48		30.00	30.0	900	100						10	0.2				8	2	3	16.7	
63+48 TO 64+73.00		125.00	30.0	3750				417			42	0.8				35	18	12		
64+73.00 BK = 57+11.00 AH		STATION EQUATION																		
57+11.00 TO 82+80		2569.00	30.0	77070				8563			856	17.1				719	360	240		
82+80 TO 83+10		30.00	30.0	900	100						10	0.2				8	2	3	16.7	
83+10 TO 86+85	BRIDGE	375.00	BRIDGE OMMISION																	

RESURFACING SCHEDULE (CON' T)

STATION TO STATION	LANE	LENGTH	WIDTH OF RESURFACING (PAVEMENT PLUS HMA SHOULDERS)	AREA	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	HOT-MIX ASPHALT SURFACE REMOVAL, 3 1/4"	HOT-MIX ASPHALT SURFACE REMOVAL, 4"	BITUMINOUS MATERIALS (PRIME COAT)	AGGREGATE (PRIME COAT)	POLYMERIZED HMA SURFACE, MIX "D", N105	LEVELING BINDER, MACHINE METHOD, N90	POLYMERIZED HMA BINDER COURSE, 1L-19, N90	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	LEVELING BINDER, MACHINE METHOD, N70	AGGREGATE WEDGE SHOULDER, TYPE B	TEMPORARY RAMP	TEMPORARY RAMP, SPECIAL
LOCATION		FOOT	FOOT	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	GALLON	TON	TON	TON	TON	TON	TON	TON	SQ YD	SQ YD
NORTHBOUND AND SOUTHBOUND																				
86+85 TO 87+15		30.00	30.0	900	100						10	0.2				8	2	3	16.7	
87+15 TO 141+92.10		5477.10	30.0	164313		18257					1826	36.5				1534	767	485		
141+92.10 BK = 142+10.78 AH		STATION EQUATION																		
142+10.78 TO 176+43		3432.22	30.0	102967		11441					1144	22.9				961	481	404		
176+43 TO 179+29		286.00	30.0-46.0	8580		1208					121	2.4				101	51	23		
179+29 TO 189+14		985.00	46.0	45310		5034					503	10.1				423	211	82		
189+14 TO 192+64		350.00	46.0-36.0	13300		1478					148	3.0				124	62	28		
192+64 TO 252+90		6026.00	30.0	180780		20087					2009	40.2				1687	844	503		
252+90 TO 253+20		30.00	30.0	900	100						10	0.2				8	2	3	16.7	
253+20 TO 255+40	BRIDGE	220.00	BRIDGE OMMISION																	
255+40 TO 255+70		30.00	30.0	900	100						10	0.2				8	2	3	16.7	
255+70 TO 299+15.58		4345.58	30.0	130367		14485					1449	29.0				1217	608	389		
299+15.58 BK = 299+00.44 AH		STATION EQUATION																		
299+00.44 TO 303+98		497.56	30.0	14927		1659					166	3.3				139	70	47		
303+98 TO 304+28		30.00	30.0	900	100						10	0.2				8	2	3	16.7	
304+28 TO 304+46	BRIDGE	18.00	BRIDGE OMMISION																	
304+46 TO 304+76		30.00	30.0	900	100						10	0.2				8	2	3	16.7	
304+76 TO 362+13		5737.00	30.0	172110		19123					1912	38.2				1606	803	514		
362+13 TO 362+43		30.00	30.0	900		100					10	0.2				8	6	3		
362+43 TO 363+43	CULVERT	100.00	30.0	3000							33	0.7				28	19	9		
363+43 TO 363+73		30.00	30.0	900		100					10	0.2				8	6	3		
363+73 TO 400+20		3647.00	30.0	109410		12157					1216	24.3				1021	511	311		
400+20 TO 400+50		30.00	30.0	900			100				10	0.2				8	2	3		
400+50 TO 400+80	BRIDGE	30.00	43.0	1290			143				14	0.3				12				
400+80 TO 401+10		30.00	30.0	900			100				10	0.2				8	2	3		
401+10 TO 440+43		3933.00	30.0	117990		13110					1311	26.2				1101	551	355		
440+43 TO 440+73		30.00	30.0	900	100						10	0.2				8	2	3	16.7	
RAMPS																				
1+00 TO 9+72	RAMP A	872.00	14.00	12208							1356	136	2.7	114	190					
1+00 TO 5+88.52	RAMP B	488.52	16.00	7816							868	87	1.7	73	122					
5+88.52 BK = 625.19 AH		STATION EQUATION																		
6+25.19 TO 9+55	RAMP B	329.81	16.00	5277							586	59	1.2	49	82					
TOTALS		43308		1311336	900	128475	343	7669	8238	2811	14877	298	1558	1220	394	10938	5450	4021	180	156

PAVEMENT MARKING SCHEDULE		LENGTH	PAINT PAVEMENT MARKING - LINE 4"	TEMPORARY PAVEMENT MARKING - LINE 4"	SHORT-TERM PAVEMENT MARKING	WORK ZONE PAVEMENT MARKING REMOVAL	RAISED REFLECTIVE PAVEMENT MARKER	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	TEMPORARY PAVEMENT MARKING - LINE 6"	THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS	TEMPORARY PAVEMENT MARKING - LETTERS & SYMBOLS
STATION TO STATION		FOOT	FOOT	FOOT	FOOT	SQ FT	EACH	FOOT	FOOT	SQ FT	SQ FT
NORTHBOUND											
23+85.00	TO 27+00.00	315	394	394	96	11	4				
27+00.00	TO 29+60.00	260	325	325	84	9	3	260	260	47	47
29+60.00	TO 38+05.46	845	1057	1057	252	28	11				
38+05.46	BK = 38+15.72AH										
38+15.72	TO 46+00.00	784	980	980	240	27	10				
46+00.00	TO 47+70.00	170	170	170			2				
47+67.00	TO 50+16.00	249	311	311	72	8	3				
SOUTHBOUND											
23+85.00	TO 28+60.00	475	594	594	144	16	6				
28+60.00	TO 31+20.00	260	65	65	84	9	3				
31+20.00	TO 38+05.46	685	857	857	204	23	9				
38+05.46	BK = 38+15.72AH										
38+15.72	TO 47+70.00	954	1193	1193	288	32	12				
47+70.00	TO 50+16.00	246	492	492	72	8	3				
NORTHBOUND & SOUTHBOUND											
50+16.00	TO 53+84.00	368	1196	1196	108	12	5				
53+84.00	TO 64+73.00	1089	2450	2450	324	36	14				
64+73.00	BK = 57+11.00 AH										
57+11.00	TO 108+76.00	5165	11621	11621	1548	172	65				
108+76.00	TO 113+82.00	506	1550	1550	156	17	6				
113+82.00	TO 118+59.00	477	1024	1024	144	16	6				
118+59.00	TO 123+71.00	512	1664	1664	156	17	6				
123+71.00	TO 141+92.00	1821	4014	4014	552	61	23				
141+92.00	BK = 142+11.00 AH										
142+11.00	TO 273+21.00	13110	29105	29105	3936	437	164				
273+21.00	TO 282+94.00	973	3162	3162	288	32	12				
282+94.00	TO 287+93.00	499	2037	2037	144	16	6				
287+93.00	TO 298+67.00	1074	3491	3491	324	36	13				
298+67.00	TO 299+15.58	49	110	110	12	1	1				
299+15.58	BK = 299+00.00 AH										
299+00.00	TO 310+69.00	1169	2598	2598	348	39	15				
310+69.00	TO 317+04.00	635	2064	2064	192	21	8				
317+04.00	TO 319+54.00	250	563	563	72	8	3				

PAVEMENT MARKING SCHEDULE (Cont'd)		LENGTH	PAINT PAVEMENT MARKING - LINE 4"	TEMPORARY PAVEMENT MARKING - LINE 4"	SHORT-TERM PAVEMENT MARKING	WORK ZONE PAVEMENT MARKING REMOVAL	RAISED REFLECTIVE PAVEMENT MARKER	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	TEMPORARY PAVEMENT MARKING - LINE 6"	THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS	TEMPORARY PAVEMENT MARKING - LETTERS & SYMBOLS
STATION TO STATION		FOOT	FOOT	FOOT	FOOT	SQ FT	EACH	FOOT	FOOT	SQ FT	SQ FT
319+54.00 TO 325+72.00		618	2009	2009	180	20	8				
325+72.00 TO 335+22.00		950	2059	2059	288	32	12				
335+22.00 TO 345+27.00		1005	3266	3266	300	33	13				
345+27.00 TO 346+51.00		124	527	527	36	4	2				
346+51.00 TO 356+40.00		989	3214	3214	300	33	12				
356+40.00 TO 370+50.00		1410	3173	3173	420	47	18				
370+50.00 TO 380+47.00		997	3240	3240	300	33	12				
380+47.00 TO 387+94.00		747	2894	2894	228	25	9				
387+94.00 TO 392+05.00		411	1336	1336	120	13	5				
392+05.00 TO 415+71.00		2366	5290	5290	708	79	30				
415+71.00 TO 425+89.00		1018	3309	3309	300	33	13				
425+89.00 TO 435+86.00		997	3240	3240	300	33	12				
435+86.00 TO 440+73.00		487	1016	1016	144	16	6				
RAMPS											
1+00.00 TO 9+72.00		872	1744	1744	162	18					
1+00.00 TO 5+88.52		489	977	977	91	10					
5+88.52 BK=	625.19 AH										
6+25.19 TO 9+55.00		330	660	660	61	7					
TOTALS			111038	111038	13778	1531	565	260	260	47	47

PAVEMENT AND SHOULDER PATCHING SCHEDULE	PAVEMENT PATCHING, TYPE I 14 INCH	PAVEMENT PATCHING, TYPE II 14 INCH	PAVEMENT PATCHING, TYPE III 14 INCH	PAVEMENT PATCHING, TYPE IV 14 INCH	PARTIAL DEPTH REMOVAL (VARIABLE DEPTH)	PARTIAL DEPTH PATCHING	PAVED SHOULDER REMOVAL	HOT-MIX ASPHALT SHOULDERS, 8"
LOCATION	SO YD	SO YD	SO YD	SO YD	SO YD	TON	SO YD	SO YD
IL 1 (NB)	10	1120	160	545				
IL 1 (SB)	10	1191	317	625				
TOTALS	20	2311	477	1170	3170	1242	1367	1367

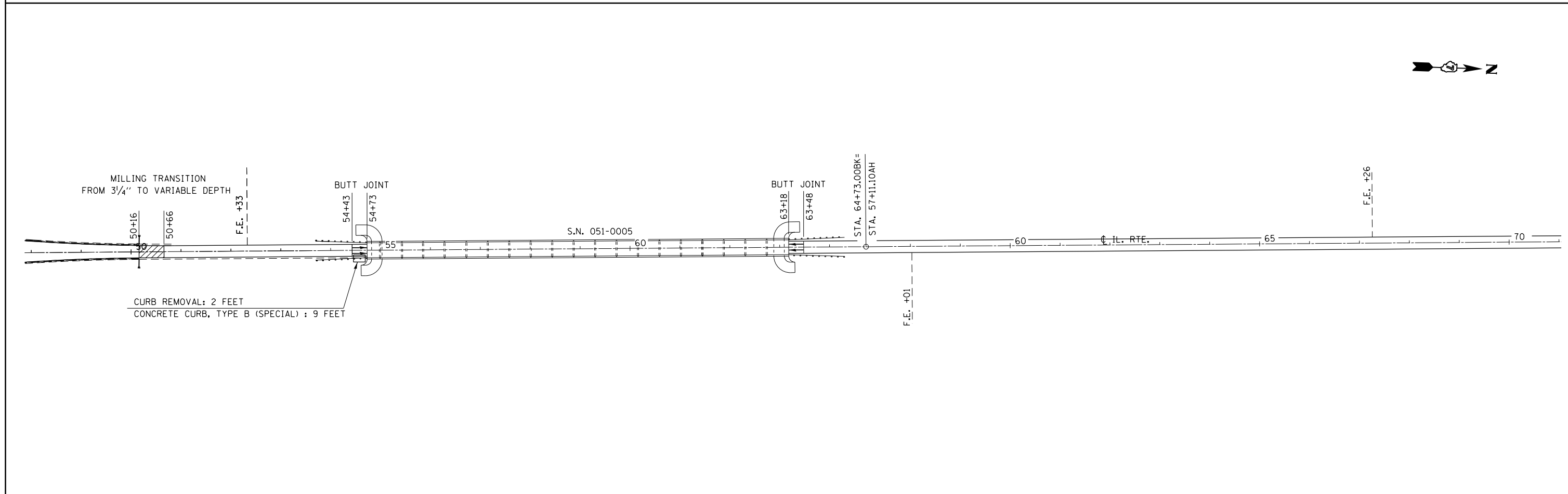
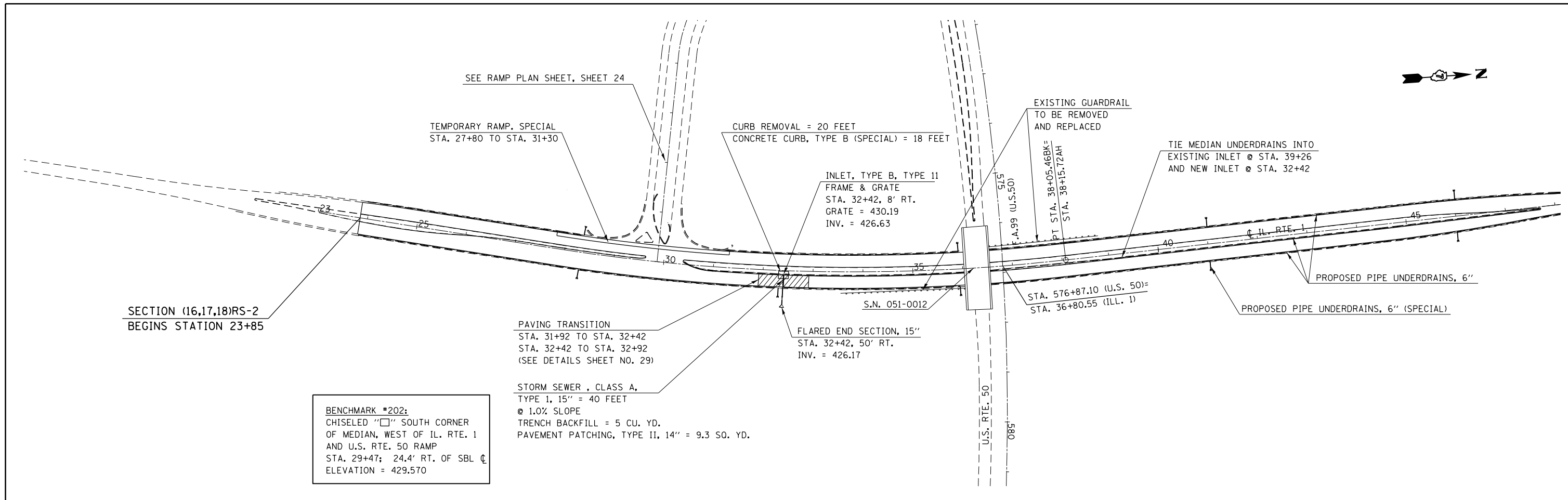
CURB REMOVAL AND REPLACEMENT SCHEDULE			CURB REMOVAL	CONCRETE CURB, TYPE B (SPECIAL)
LOCATION			FOOT	FOOT
32+32.00	32+52.00	NEW INLET AT STA 32+42	20.0	18.0
54+64.00	54+73.00	SE CORNER OF SN 051-0005	2.0	9.0
TOTALS =			22.0	27.0

SURVEY MONUMENT SCHEDULE				PERMANENT SURVEY MARKERS, TYPE 1	SURVEY MARKER VAULT	PROTECTING OR RESETTING SURVEY MARKERS
STATION	O/S	TYPE OF POINT DESCRIPTION				
27+84.40	0	PC	MAG NAIL WITH WASHER	1		
32+98.00	NOT PROVIDED	PI	MAG NAIL WITH WASHER	1		
74+93.75	0	POT	MAG NAIL WITH WASHER	1		
165+60	0	SECTION CORNER	MAG NAIL WITH WASHER		1	1
169+75	0	SECTION CORNER	MAG NAIL WITH WASHER		1	1
240+09.75	0	POT	MAG NAIL	1		
267+63.99	0	POT	MAG NAIL	1		
271+99.24	0	PC	MAG NAIL WITH WASHER	1		
275+49.65	NOT PROVIDED	PI	MAG NAIL WITH WASHER	1		
278+99.24	0	PT	MAG NAIL WITH WASHER	1		
280+81.19	0	PC	MAG NAIL WITH WASHER	1		
290+34.66	0	PT	MAG NAIL WITH WASHER	1		
292+15.72	0	PC	MAG NAIL WITH WASHER	1		
295+66.16	NOT PROVIDED	PI	MAG NAIL WITH WASHER	1		
299+15.71 (BK) = 299+04.02 (AH)	0	PT	MAG NAIL WITH WASHER	1		
305+96.00	0	PI	MAG NAIL WITH WASHER	1		
320+46.00	0	PI	MAG NAIL WITH WASHER	1		
332+45.92	0	PT	MAG NAIL WITH WASHER	1		
TOTALS				16	2	2

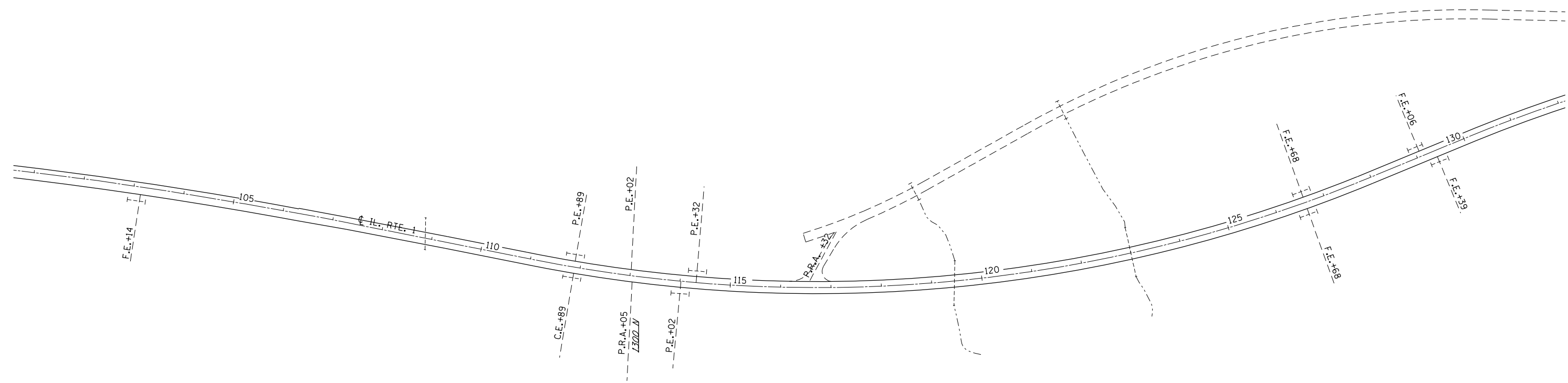
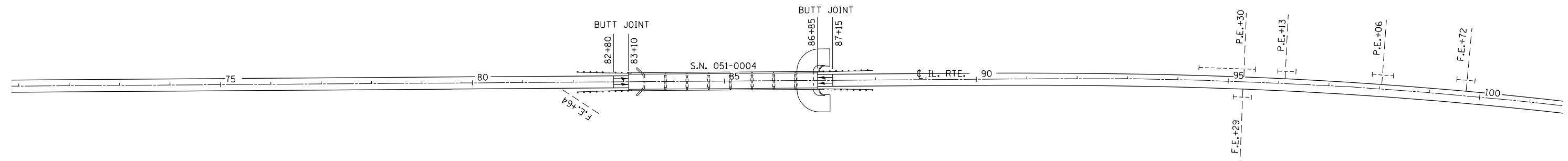
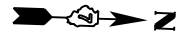
NOTE: TIE POINTS NOT PROVIDED FOR ALL SURVEY POINTS. THE RESIDENT ENGINEER NEEDS TO ESTABLISH ANY NECESSARY TIE POINTS BEFORE THE SURVEY POINT IS DISTURBED.

GUARDRAIL SCHEDULE	GUARDRAIL REMOVAL	TRAFFIC BARRIER TERMINAL, TYPE 6B	STEEL PLATE BEAM GUARD RAIL, TYPE A, 9 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	TERMINAL MARKERS - DIRECT APPLIED	GUARDRAIL MARKERS, TYPE A
LOCATION	FOOT	EACH	FOOT	EACH	EACH	EACH
S END OF EAST PIER	251.0	1.0	37.5	1.0	1.0	4.0
MIDDLE PIER	82.0	0.0	0.0	0.0	0.0	0.0
N END OF WEST PIER	229.0	1.0	37.5	1.0	1.0	4.0
TOTALS =	562.0	2.0	75.0	2.0	2.0	8.0

PIPE UNDERDRAIN SCHEDULE			PIPE UNDERDRAIN 6"	PIPE UNDERDRAIN 6" (SPECIAL)	UNDERDRAIN CONNECTION TO STRUCTURE	SHOULDER REMOVAL AND REPLACEMENT, 8"	CONCRETE HEADWALL FOR PIPE UNDERDRAINS
FROM STA	TO STATION	LOCATION	FOOT	FOOT	EACH	FOOT	EACH
23+85.00	28+31.00	NB OUTSIDE	446.0	20.0		446.0	1.0
28+31.00	32+30.00	NB OUTSIDE	399.0	20.0		399.0	1.0
32+45.00	35+95.00	NB OUTSIDE	350.0	20.0		350.0	1.0
36+60.00	41+00.00	NB OUTSIDE	440.0	20.0		440.0	1.0
41+00.00	46+00.00	NB OUTSIDE	500.0	20.0		500.0	1.0
46+00.00	50+16.00	NB OUTSIDE	416.0	20.0		416.0	1.0
30+40.00	32+42.00	NB INSIDE	202.0		1.0		
32+42.00	35+95.00	NB INSIDE	353.0		1.0		
36+60.00	39+26.00	NB INSIDE	266.0		1.0		
39+26.00	47+70.00	NB INSIDE	844.0		1.0		
22+85.00	28+31.00	SB OUTSIDE	546.0	20.0		546.0	1.0
31+23.00	35+95.00	SB OUTSIDE	472.0	20.0		472.0	1.0
36+60.00	41+00.00	SB OUTSIDE	440.0	20.0		440.0	1.0
41+00.00	46+00.00	SB OUTSIDE	500.0	20.0		500.0	1.0
46+00.00	50+16.00	SB OUTSIDE	416.0	20.0		416.0	1.0
TOTALS =			6590.0	220.0	4.0	4925.0	11.0



FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN SHEET			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ci:\pw\work\p\id\dot\steffenmk\d0263618\0784977-sh-t-plan.dgn		DRAWN -	REVISED -		SCALE: 100	SHEET NO. 1 OF 9 SHEETS	STA. 23+85 TO STA. 71+00	332	(16,17,18)RS-2	LAWRENCE	40	16
	PLOT SCALE = 200.0000' / in.	CHECKED -	REVISED -					CONTRACT NO. 94977				
	PLOT DATE = 10/15/2012	DATE -	REVISED -					ILLINOIS FED. AID PROJECT				



FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
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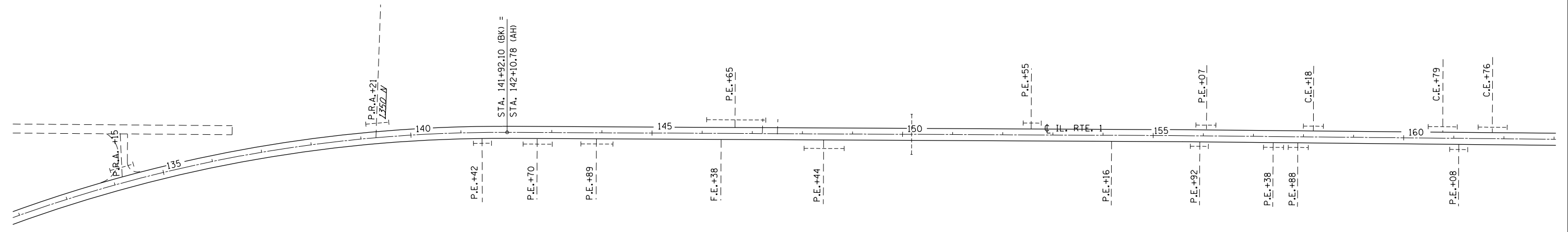
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN SHEET

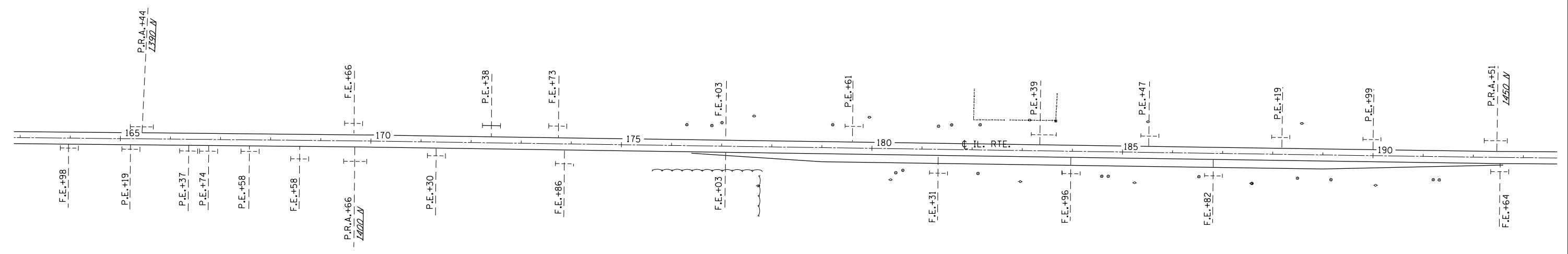
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(16.17,18)RS-2	LAWRENCE	40	17
CONTRACT NO. 94977				

ILLINOIS FED. AID PROJECT



NOTE:
 7' AGGREGATE SHOULDER FROM STA. 141+40 TO STA. 148+50
 5' AGGREGATE SHOULDER FROM STA. 148+50 TO STA. 173+90



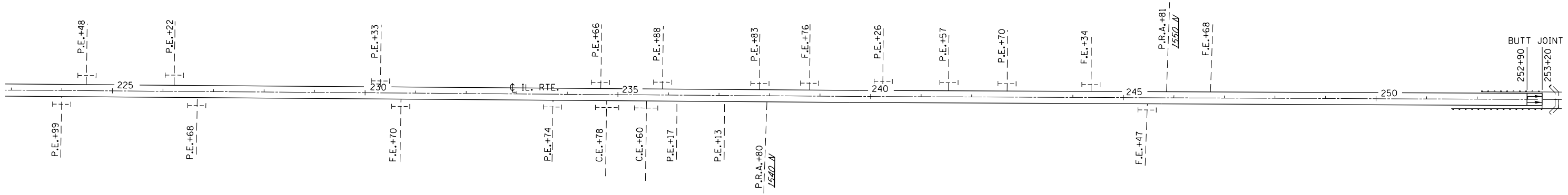
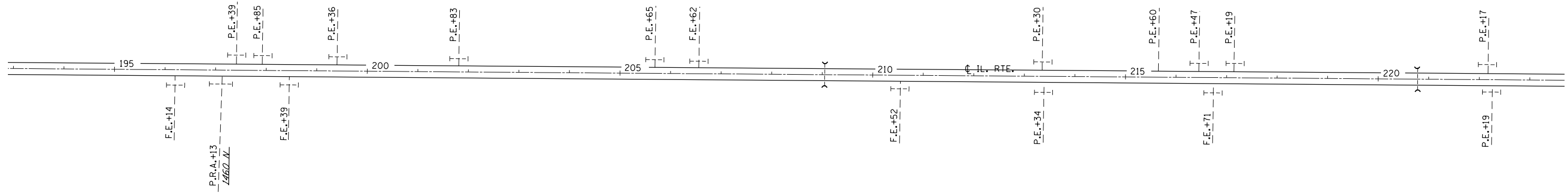
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	PLOT DATE = 10/15/2012	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PLAN SHEET

SCALE: 100 SHEET NO. 3 OF 9 SHEETS STA. 132+00 TO STA. 193+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(16.17,18)RS-2	LAWRENCE	40	18
CONTRACT NO. 94977				
ILLINOIS FED. AID PROJECT				



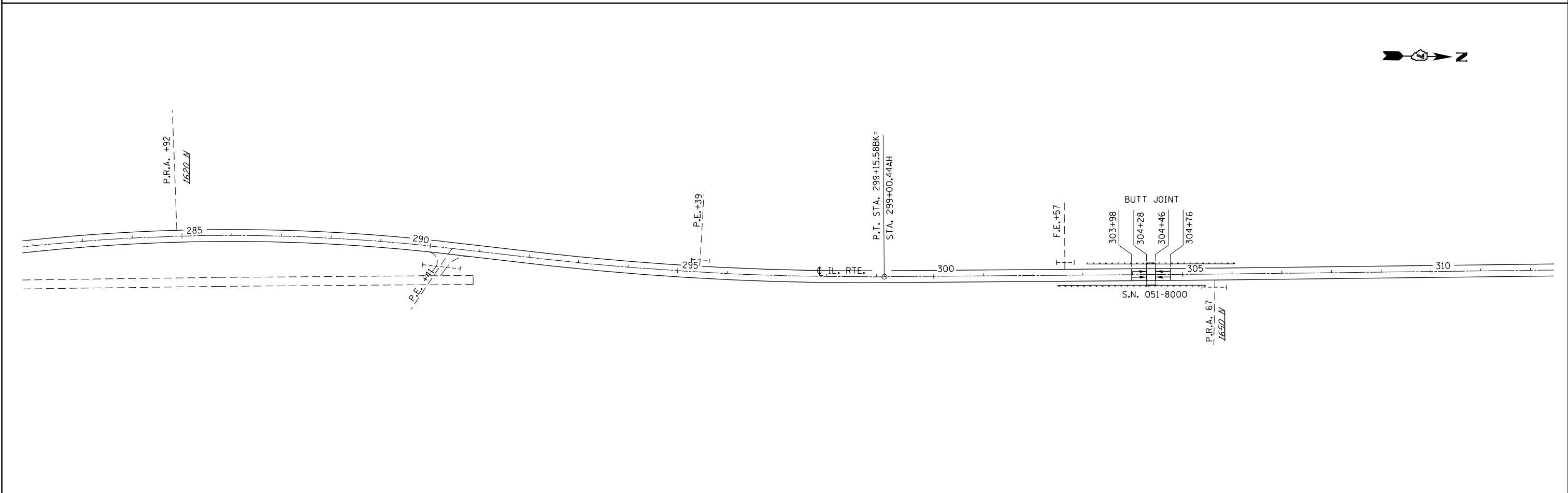
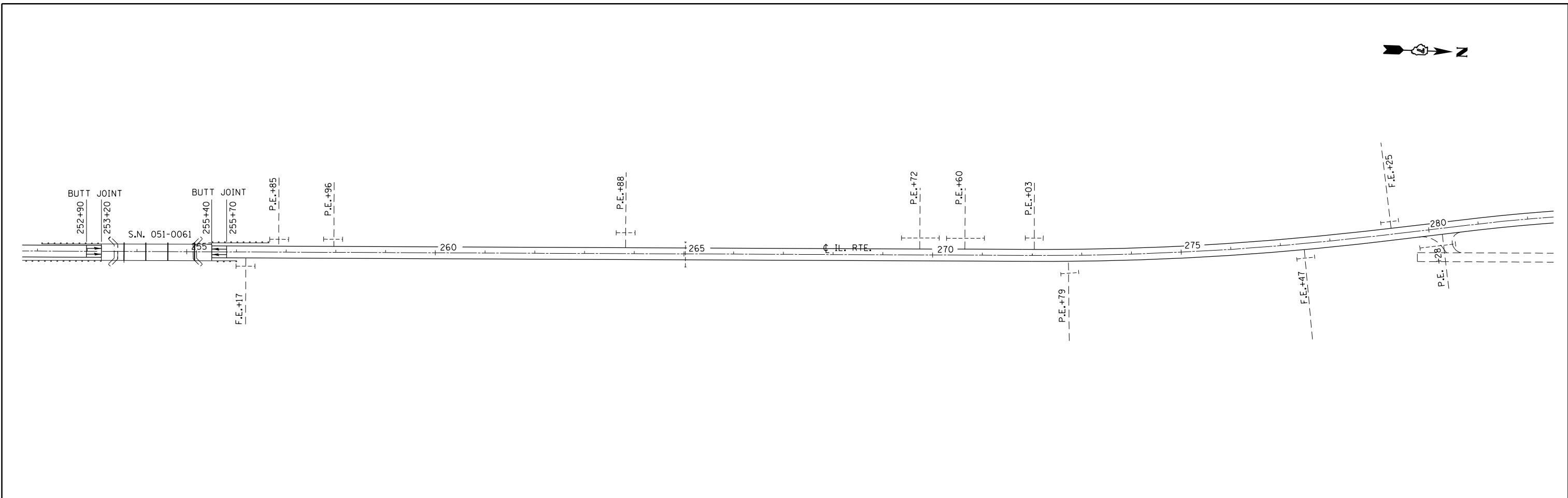
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	PLOT DATE = 10/15/2012	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN SHEET

SCALE: 100 SHEET NO. 4 OF 9 SHEETS STA. 193+00 TO STA. 252+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(16.17,18)RS-2	LAWRENCE	40	19
CONTRACT NO. 94977				
ILLINOIS FED. AID PROJECT				



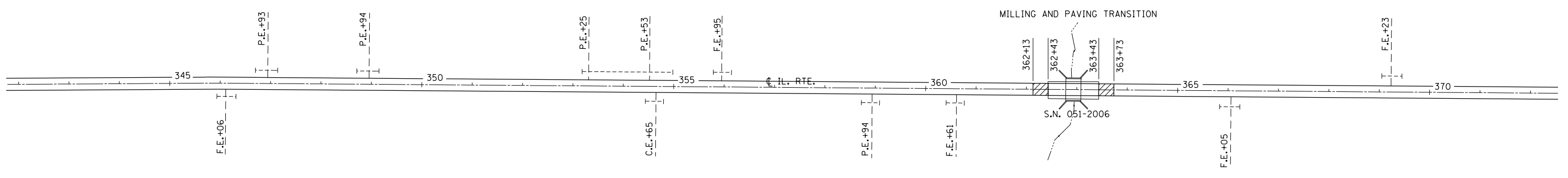
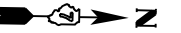
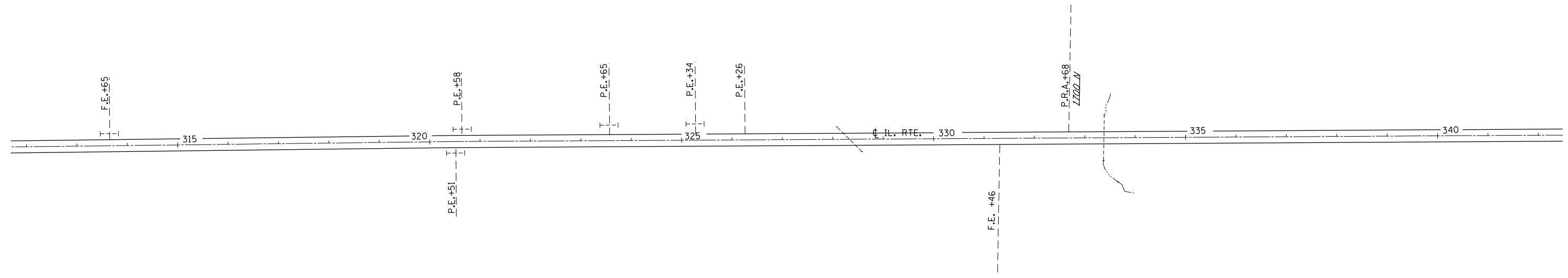
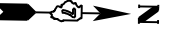
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	PLOT DATE = 10/15/2012	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN SHEET

SCALE: 100 SHEET NO. 5 OF 9 SHEETS STA. 252+00 TO STA. 312+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(16.17,18)RS-2	LAWRENCE	40	20
CONTRACT NO. 94977				
ILLINOIS FED. AID PROJECT				



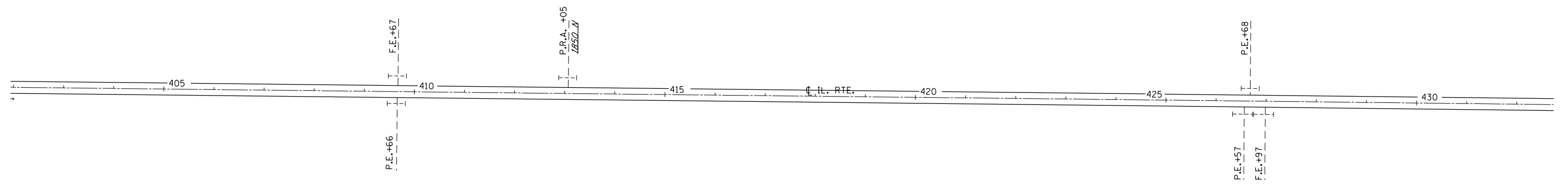
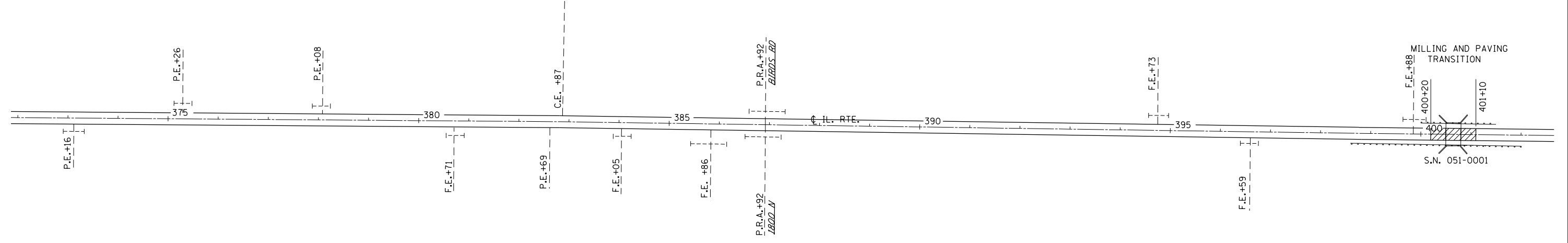
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	PLOT DATE = 10/15/2012	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN SHEET

SCALE: 100 SHEET NO. 6 OF 9 SHEETS STA. 312+00 TO STA. 372+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(16,17,18)RS-2	LAWRENCE	40	21
CONTRACT NO. 94977				
ILLINOIS FED. AID PROJECT				



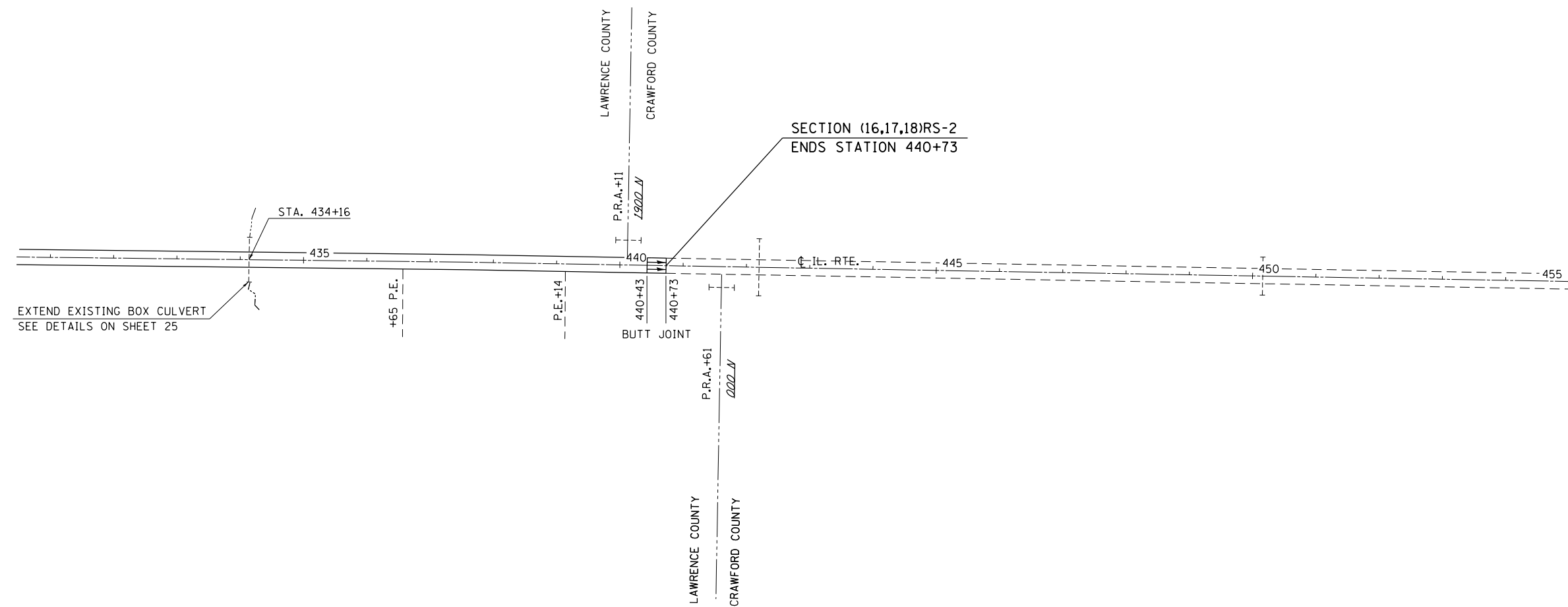
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	PLOT DATE = 10/15/2012	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN SHEET

SCALE: 100 SHEET NO. 7 OF 9 SHEETS STA. 372+00 TO STA. 431+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(16.17,18)RS-2	LAWRENCE	40	22
CONTRACT NO. 94977			ILLINOIS FED. AID PROJECT	



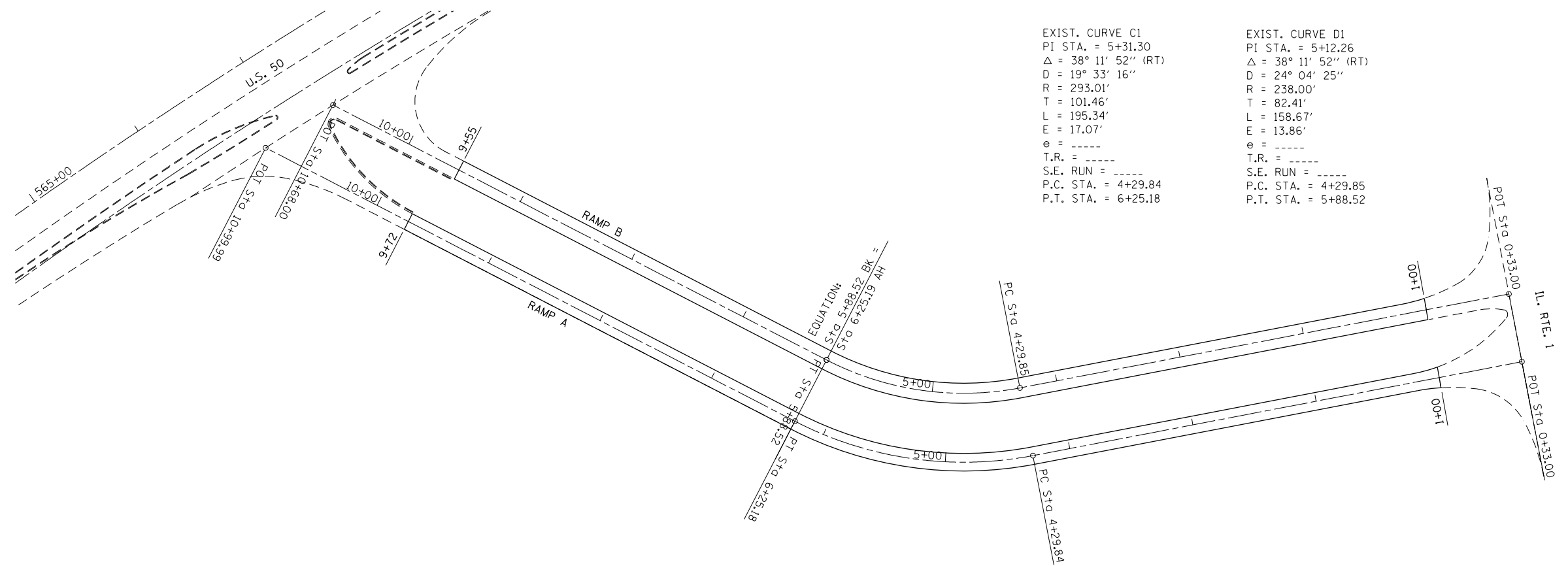
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	PLOT SCALE = 200.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/15/2012	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN SHEET

SCALE: 100 SHEET NO. 8 OF 9 SHEETS STA. 431+00 TO STA. 440+73

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(16,17,18)RS-2	LAWRENCE	40	23
CONTRACT NO. 94977			ILLINOIS FED. AID PROJECT	



EXIST. CURVE C1
 PI STA. = 5+31.30
 $\Delta = 38^\circ 11' 52''$ (RT)
 $D = 19^\circ 33' 16''$
 $R = 293.01'$
 $T = 101.46'$
 $L = 195.34'$
 $E = 17.07'$
 $e = 0$
 $T.R. = 0$
 $S.E. RUN = 0$
 $P.C. STA. = 4+29.84$
 $P.T. STA. = 6+25.18$

EXIST. CURVE D1
 PI STA. = 5+12.26
 $\Delta = 38^\circ 11' 52''$ (RT)
 $D = 24^\circ 04' 25''$
 $R = 238.00'$
 $T = 82.41'$
 $L = 158.67'$
 $E = 13.86'$
 $e = 0$
 $T.R. = 0$
 $S.E. RUN = 0$
 $P.C. STA. = 4+29.85$
 $P.T. STA. = 5+88.52$

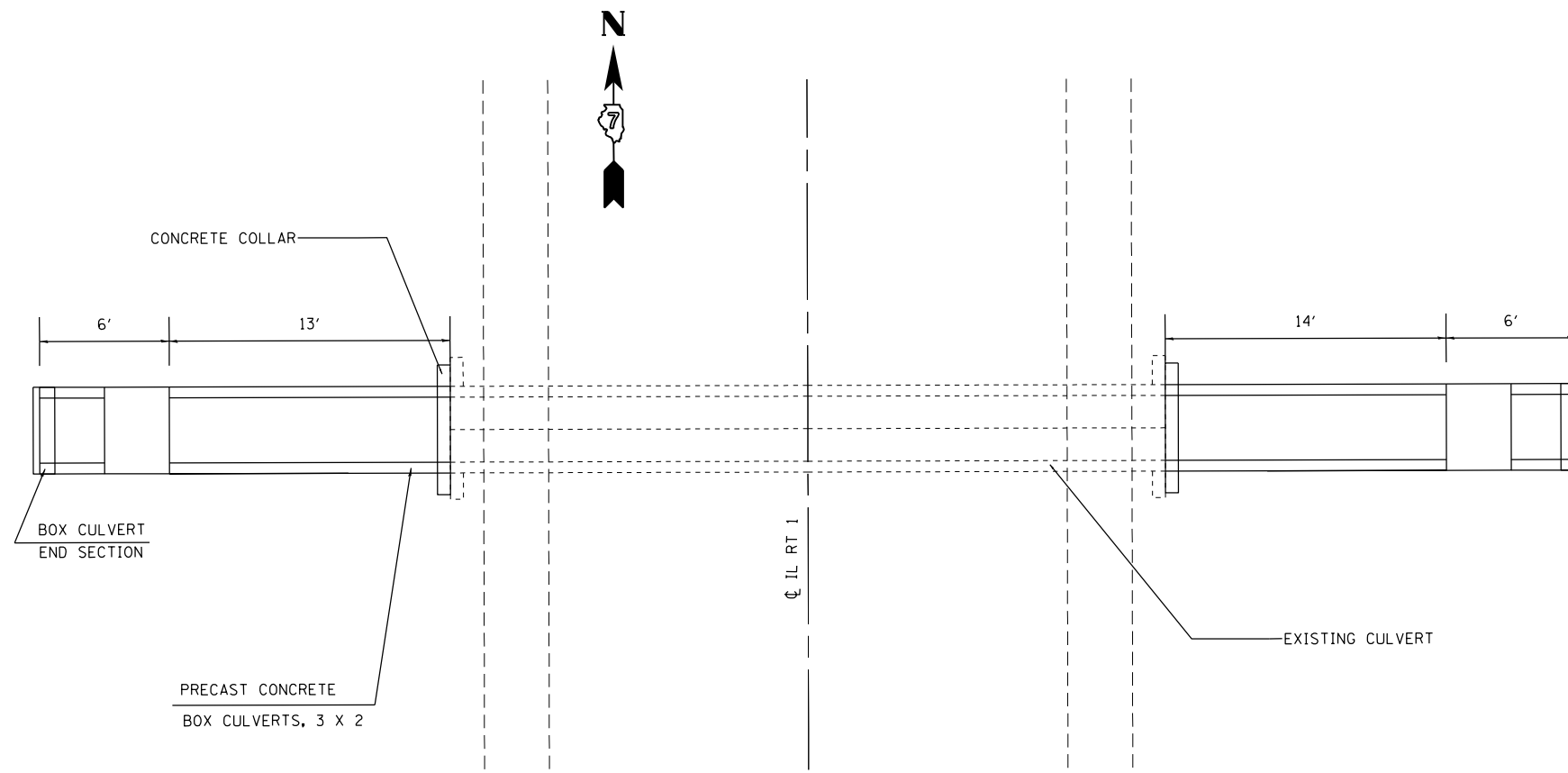
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	PLOT DATE = 10/15/2012	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

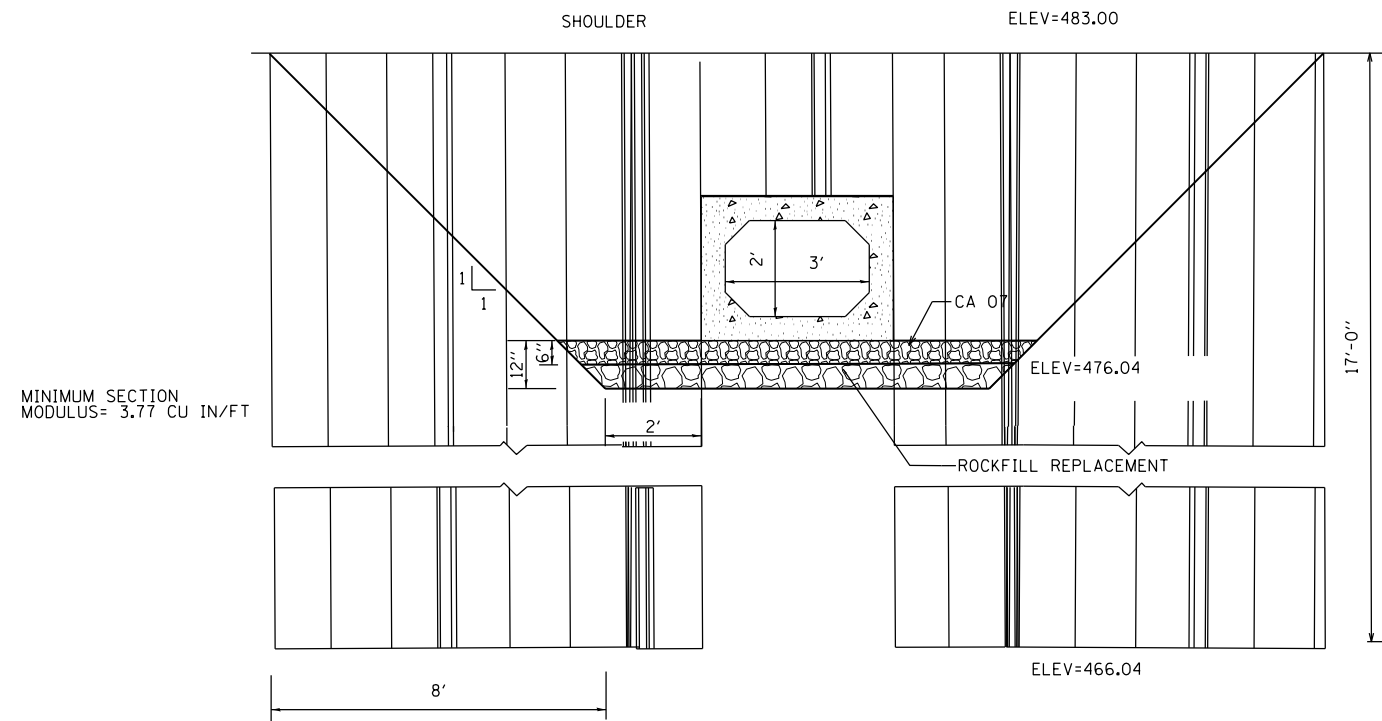
PLAN SHEET

SCALE: 50 SHEET NO. 9 OF 9 SHEETS STA. TO STA.

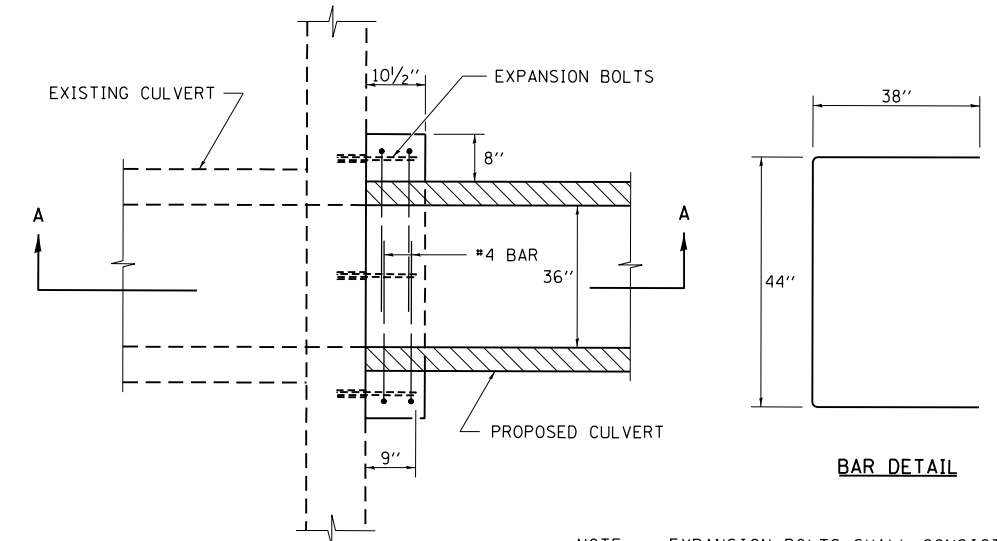
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(16,17,18)RS-2	LAWRENCE	40	24
CONTRACT NO. 94977				
ILLINOIS FED. AID PROJECT				



CULVERT PLAN VIEW: STA 434+16

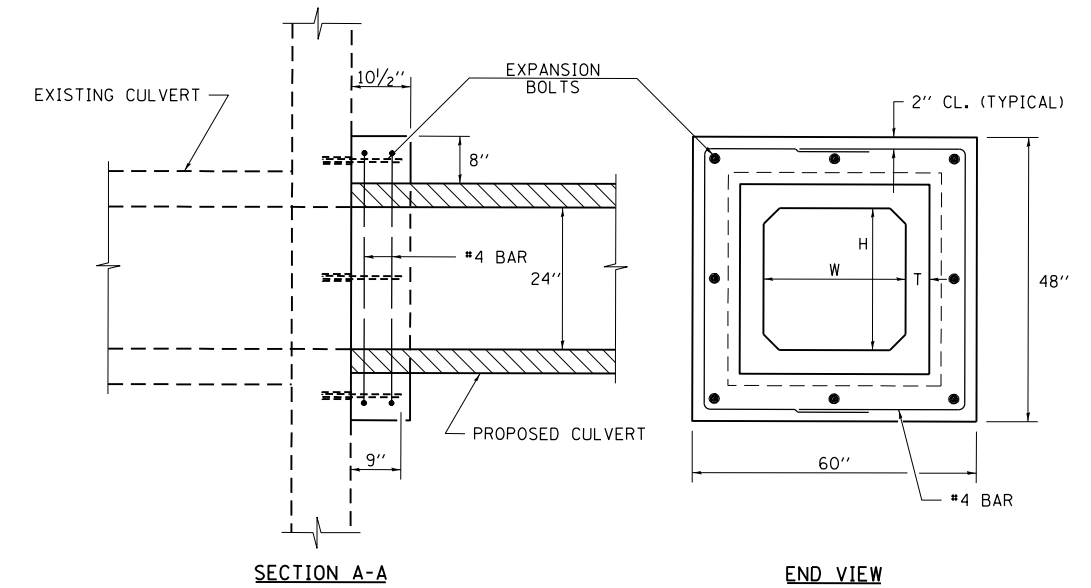


CULVERT ELEVATION VIEW



PLAN VIEW
(RIGHT ANGLE CULVERT)

NOTE: EXPANSION BOLTS SHALL CONSIST OF SELF-DRILLING EXPANSION SHIELDS AND HOOKED BOLTS. HOOKED BOLTS SHALL EXTEND A MINIMUM OF 9" INTO THE NEW CONCRETE.



SECTION A-A

END VIEW

CULVERT EXTENSION SCHEDULE

	UNIT	LT	RT	TOTAL
PRECAST BOX CULVERT, 3 X 2	FOOT	13	14	27
PRECAST END SECTION	EACH	1	1	2
EXPANSION BOLTS, 3/4"	EACH	8	8	16
CONCRETE COLLAR	CU YD	0.8	0.8	1.6
REINFORCEMENT BARS	POUND	40	40	80
REM & DISP UNSUIT MATERIAL	CU YD	5.6	5.9	11.5
PIPE CULVERT REMOVAL	FOOT	15	16	31
REMOVE EX FLARED END SECTION	EACH	1	1	2
TEMPORARY SHEET PILING	SQ FT	282	282	564
ROCKFILL REPLACEMENT	TON	12	12	24
SEEDING CLASS 2 SPECIAL	ACRE	.25	.25	.50

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PLOT DATE = 10/15/2012		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CULVERT & COLLAR DETAILS

SCALE: NA SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.R. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(16.17.18)RS-2	LAWRENCE	40	25
CONTRACT NO. 94977				
ILLINOIS FED. AID PROJECT				



Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Page 1 of 1

Date 8/20/12

ROUTE FAP 332 (IL 1) DESCRIPTION Culvert Extension - Soil Retention System LOGGED BY E. Sandschafer

SECTION (16,17,18)RS-2 LOCATION R12W - Sect 25 - NE 1/4, R11W - Sect 30 - NW 1/4, SEC. 30, TWP. 5 N, RNG. 3 PM

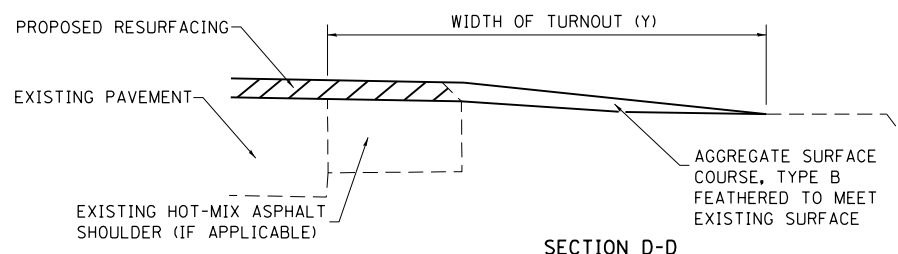
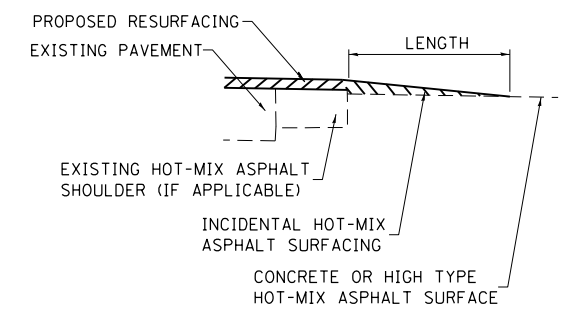
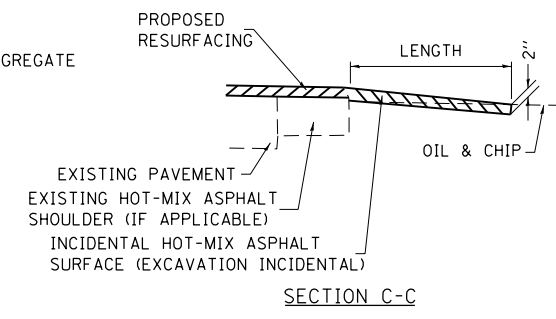
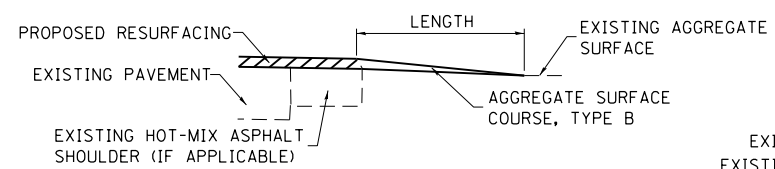
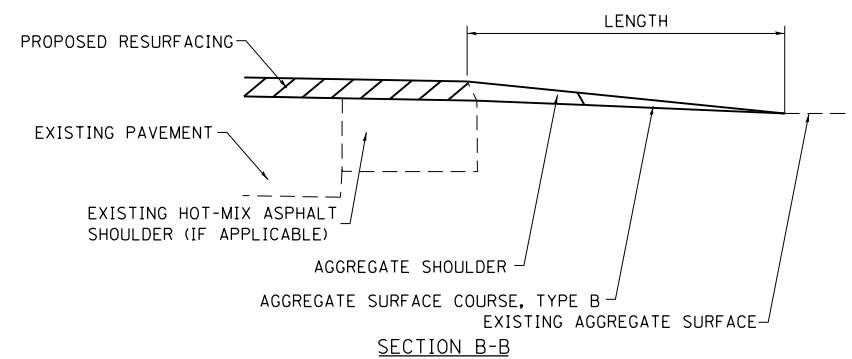
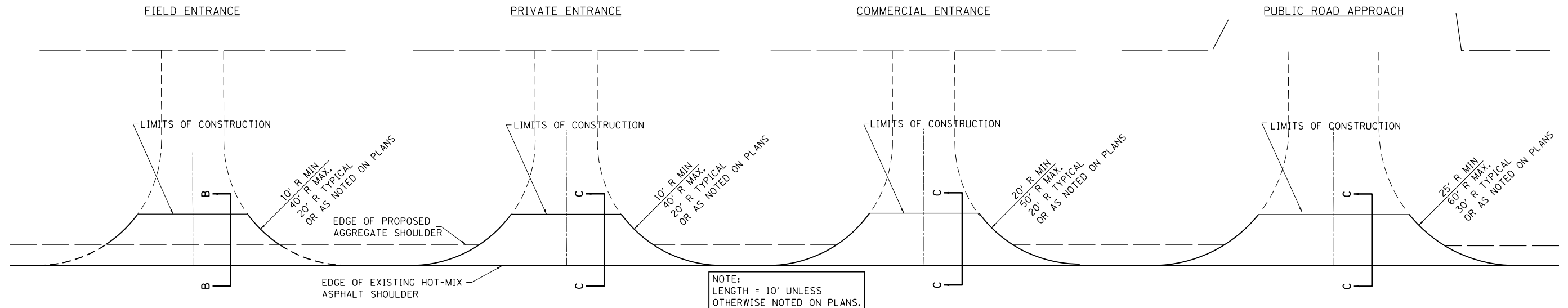
COUNTY Lawrence DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO.	Station	DEPTH (ft)	DIAMETER (in)	SOIL TYPE	TESTS	DEPTH (ft)	DIAMETER (in)	SOIL TYPE	TESTS
N/A	434+16								
1 (Southeast)	434+08	19.5ft	Rt						
	Ground Surface Elev.	482.88	ft						
	Surface Water Elev.	Dry	ft						
	Stream Bed Elev.	477.04	ft						
	Groundwater Elev.:								
	First Encounter	473.4	ft						
	Upon Completion	Dry	ft						
	After 24 Hrs.	467.9	ft						
	Aggregate shoulder - mix of CA6 crushed stone and Silty Clay.	482.38							
	Medium to very stiff, damp, brown, SILTY CLAY LOAM.								
		3							
		4	3.1	14					
		6	S						
		-5	1						
		1	0.9	26					
		2	B						
		457.88							
	Very soft, very damp, gray, SILTY LOAM.								
		1	0.1	23					
		1	B						
		-10	0						
		1	0.7	22					
		1	B						
		2							
		3	1.9	20					
		3	B						
		468.38							
	Very stiff, damp, brown/gray, SILTY CLAY TILL.								
		-15	5						
		8	3.1	18					
		15	S						
		6							
		11	4.6	17					
		17	S						
		463.38							
		-20	10						

File Name: S:\NEW GEOTECHNICAL\GINTONIA\PROJECTS\LAWRENCE CO (08)\051-0005 SOIL 2012 CULVERT EXTENSION\CPJ Data Template\BTE\BTE1.LOT Date Printed: 8/22/12 Latitude: N 87 deg 41.070 min Longitude: N 38 deg 51.005 min Datum: Job Number:

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Sealing
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BORING LOG	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default	Plot Scale = 100.0000' / in.	CHECKED -	REVISED -			332	(16,17,18)RS-2	LAWRENCE	40	26	
	PLOT DATE = 10/15/2012	DATE -	REVISED -			CONTRACT NO. 94977					
						ILLINOIS FED. AID PROJECT					



TYPICAL SECTION AT MAILBOX TURNOUT
NOTE: SEE STANDARD 406201 FOR MAILBOX TURNOUT DETAILS

NOTES

THE COST OF THE ASPHALT MATERIALS, AND AGGREGATE (PRIME COAT) FOR ENTRANCES AND PUBLIC ROADS AND APPROACHES SHALL BE INCLUDED IN THE PAY ITEM INCIDENTAL HOT-MIX ASPHALT SURFACING.

THE COST OF EXCAVATION IS INCLUDED IN THE PAY ITEM INCIDENTAL HOT-MIX ASPHALT SURFACING.

IF THERE IS NOT EXISTING HOT-MIX ASPHALT SHOULDER THEN THE ENTRANCE TAPER STARTS AT THE EDGE OF EXISTING PAVEMENT.

THE COST OF THE BITUMINOUS MATERIALS AND AGGREGATE (PRIME COAT) FOR ENTRANCES AND PUBLIC ROAD APPROACHES SHALL BE INCLUDED IN THE PAY ITEM INCIDENTAL HOT-MIX ASPHALT SURFACING.

SIDE	STATION	TYPE	INCIDENTAL HOT-MIX ASPHALT SURFACING	
			TON	TON
LT	52+33	FE		2.6
RT	58+01	FE		2.1
LT	67+26	FE		2.2
RT	81+64	FE		6.7
RT	95+39	FE		2.2
LT	95+40	PE	2.2	
LT	96+24	PE	2.4	
LT	98+16	PE	2.6	
LT	99+86	PE	2.3	
RT	103+29	FE		2.1
LT	111+86	PE	2.5	
RT	111+97	FE		2.4
LT	113+02	PRA	1.4	
RT	113+05	PRA	3.0	
RT	114+02	PE	2.5	
LT	114+32	PE	2.4	
LT	116+37	PRA	2.5	
RT	126+60	FE		3.9
LT	126+60	FE		3.3
LT	128+96	FE		1.9
RT	129+20	FE		2.5
LT	129+70	FE		3.3
LT	134+00	PRA	2.5	
LT	139+30	PRA	2.4	
RT	141+65	PE	2.3	
RT	142+96	CE	2.3	
RT	144+20	CE	3.0	

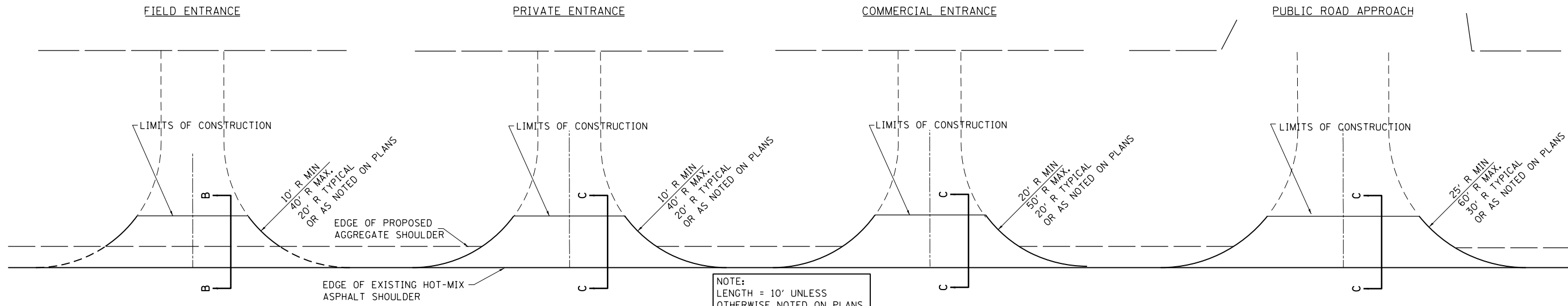
SIDE	STATION	TYPE	INCIDENTAL HOT-MIX ASPHALT SURFACING	
			TON	TON
RT	146+70	FE		3.1
LT	147+00	PE	2.1	
LT	148+71	PE	3.6	
RT	152+04	FE		3.3
LT	152+75	PE	2.2	
RT	154+33	FE		3.3
RT	155+62	PE	2.1	
RT	156+11	PE	2.1	
LT	156+26	PE	2.3	
RT	158+06	PE	2.3	
LT	158+44	PE	3.1	
LT	160+92	CE	3.6	
RT	161+18	PE	2.1	
LT	161+90	CE	3.7	
RT	164+18	FE		2.6
RT	165+33	PE	2.3	
LT	165+56	PRA	1.8	
RT	166+52	PE	2.3	
RT	166+92	PE	2.4	
RT	167+74	PE	2.3	
RT	168+70	FE		2.9
RT	169+83	PRA	1.9	
LT	169+85	FE		2.9
RT	171+45	PE	2.5	
RT	172+49	PE	2.9	
LT	172+58	PE	2.6	
RT	174+10	FE		3.3

SIDE	STATION	TYPE	INCIDENTAL HOT-MIX ASPHALT SURFACING	
			TON	TON
LT	174+12	FE		2.8
LT	176+96	FE		3.1
RT	176+96	FE		3.1
LT	179+61	PE	2.3	
RT	181+88	FE		2.0
LT	183+36	PE	2.3	
LT	185+48	PE	2.3	
RT	187+32	FE		2.3
LT	189+99	PE	2.8	
LT	192+47	PRA	1.8	
RT	192+54	FE		2.4
RT	196+20	FE		3.1
RT	197+13	PRA	1.7	
LT	197+41	PE	2.1	
LT	197+88	PE	2.2	
RT	198+46	FE		3.1
LT	199+40	PE	2.3	
LT	201+92	PE	2.6	
LT	205+69	PE	2.4	
LT	209+70	FE		3.1
RT	210+55	FE		3.1
LT	213+35	PE	2.4	
LT	215+65	PE	2.3	
LT	216+56	PE	2.3	
RT	216+73	FE		3.3
LT	217+28	PE	2.3	
LT	218+58	PE	2.3	

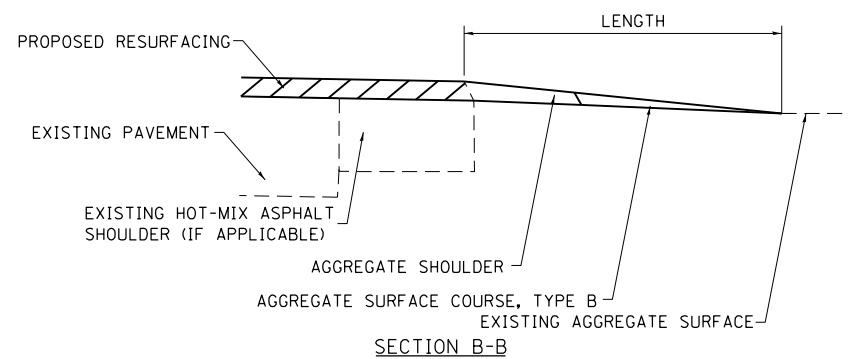
SIDE	STATION	TYPE	INCIDENTAL HOT-MIX ASPHALT SURFACING	
			TON	TON
LT	222+17	PE	2.1	
RT	222+26	PE	2.3	
LT	224+06	PE	2.3	
LT	224+56	PE	2.4	
LT	225+36	FE		2.1
LT	226+22	PE	2.1	
RT	226+68	PE	2.2	
LT	227+50	FE		3.1
RT	230+50	FE		3.3
LT	231+31	PE	2.1	
RT	233+65	PE	2.1	
LT	234+66	PE	2.2	
RT	234+78	CE	4.1	
RT	235+57	CE	4.1	
LT	235+88	PE	2.1	
RT	237+17	PE	2.8	
LT	237+86	PE	2.2	
RT	237+80	PRA	2.4	
LT	238+80	FE		3.6
LT	240+24	PE	2.8	
LT	241+54	PE	2.2	
LT	242+70	PE	2.6	
LT	244+36	PE	2.2	
RT	245+56	FE		3.1
LT	245+85	PRA	2.4	
LT	246+72	PE	2.2	
RT	256+19	FE		2.8

SIDE	STATION	TYPE	INCIDENTAL HOT-MIX ASPHALT SURFACING	
			TON	TON
LT	256+85	PE	2.2	
LT	257+96	PE	2.2	
LT	264+02	FE		2.9
LT	269+74	PE	2.8	
LT	270+60	PE	2.4	
LT	272+14	PE	2.4	
RT	272+86	PE	2.2	
RT	277+47	FE		2.9
LT	279+25	FE		3.3
RT	280+23	PRA	6.1	
LT	284+90	PRA	3.5	
RT	290+46	PRA	6.1	
LT	295+44	PE	2.8	
LT	302+64	FE		2.4
RT	305+77	PRA	1.4	
LT	313+75	FE		3.3
RT	320+46	PE	2.2	
LT	320+51	PE	2.2	
LT	320+64	PE	1.7	
LT	320+84	MBT		3.4
LT	325+28	PE	3.2	
LT	325+80	MBT		3.4
LT	326+00	PE	1.7	
LT	326+26	PE	2.3	
RT	331+40	FE		2.9
LT	332+68	PRA	5.0	
RT	346+10	FE		2.4

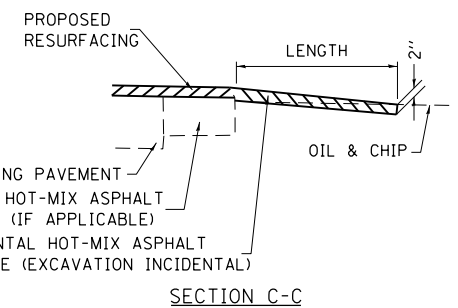
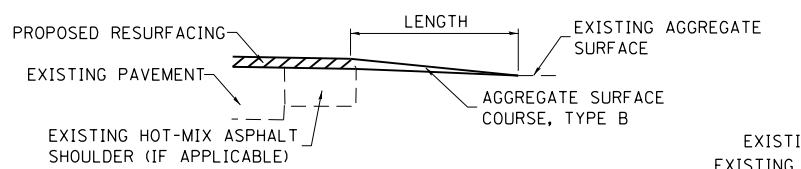
FE=FIELD ENTRANCE PRA - PUBLIC ROAD APPROACH
PE=PRIVATE ENTRANCE MBT - MAILBOX TURNOUT
CE=COMMERCIAL ENTRANCE



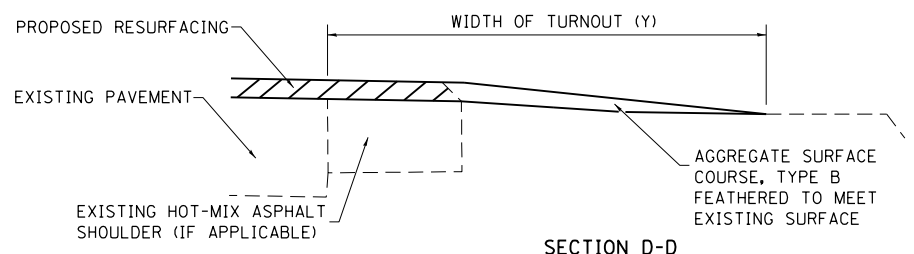
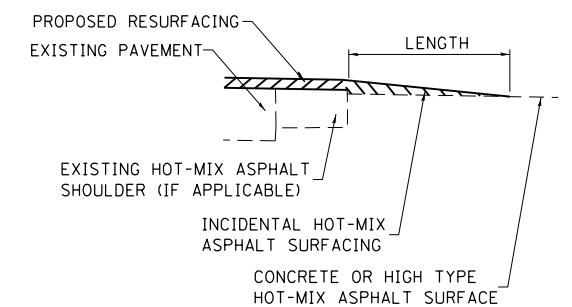
NOTE:
LENGTH = 10' UNLESS
OTHERWISE NOTED ON PLANS.



SECTION B-B



SECTION C-C



SECTION D-D

TYPICAL SECTION AT MAILBOX TURNOUT

NOTE: SEE STANDARD 406201 FOR MAILBOX TURNOUT DETAILS

NOTES

THE COST OF THE ASPHALT MATERIALS, AND AGGREGATE (PRIME COAT) FOR ENTRANCES AND PUBLIC ROADS AND APPROACHES SHALL BE INCLUDED IN THE PAY ITEM INCIDENTAL HOT-MIX ASPHALT SURFACING.

THE COST OF EXCAVATION IS INCLUDED IN THE PAY ITEM INCIDENTAL HOT-MIX ASPHALT SURFACING.

IF THERE IS NOT EXISTING HOT-MIX ASPHALT SHOULDER THEN THE ENTRANCE TAPER STARTS AT THE EDGE OF EXISTING PAVEMENT.

THE COST OF THE BITUMINOUS MATERIALS AND AGGREGATE (PRIME COAT) FOR ENTRANCES AND PUBLIC ROAD APPROACHES SHALL BE INCLUDED IN THE PAY ITEM INCIDENTAL HOT-MIX ASPHALT SURFACING.

SIDE	STATION	TYPE	INCIDENTAL HOT-MIX ASPHALT SURFACING		AGGREGATE SURFACE COURSE, TYPE B
			TON	TON	
LT	346+93	FE		2.7	
LT	347+20	MBT		3.4	
LT	347+40	PE		2.7	
LT	353+31	PE	3.1		
LT	354+50	PE	1.7		
LT	354+60	PE	4.0		
RT	354+65	PE	3.2		
LT	354+75	PE	1.7		
LT	355+95	FE		2.9	
RT	358+02	PE	2.9		
RT	358+80	PE	1.7		
RT	360+47	FE		3.1	
RT	366+00	FE		2.9	
LT	369+11	FE		3.1	
RT	372+80	MBT		3.4	
RT	373+00	PE	1.7		
RT	373+12	PE	2.5		
LT	375+35	FE		2.9	
LT	378+08	PE	3.2		
LT	378+38	PE		2.7	
RT	379+70	FE		3.8	
RT	382+42	MBT		3.4	
RT	382+62	PE	3.0		
LT	382+87	PRA	5.0		
RT	384+05	FE		6.9	
RT	384+82	FE		2.7	
LT	386+88	PRA	5.0		

SIDE	STATION	TYPE	INCIDENTAL HOT-MIX ASPHALT SURFACING		AGGREGATE SURFACE COURSE, TYPE B
			TON	TON	
RT	386+92	PRA	5.1		
LT	394+70	FE		4.1	
LT	399+85	FE		3.5	
LT	401+67	PE	3.6		
RT	409+66	PE	2.2		
LT	409+67	FE		2.9	
RT	409+80	MBT		3.4	
LT	413+00	PRA	5.0		
LT	413+08	FE		2.7	
LT	426+00	FE		2.7	
RT	426+35	MBT		3.4	
RT	426+48	PE	2.2		
LT	426+55	PE	2.2		
RT	426+90	PE	5.2		
RT	427+10	FE		2.7	
LT	434+50	FE		2.7	
RT	435+80	PE		2.7	
RT	436+57	PE	2.4		
RT	438+92	MBT		3.4	
RT	439+14	PE	2.2		
TOTALS			296.0	214.0	

SIDE	STATION	TYPE	INCIDENTAL HOT-MIX ASPHALT SURFACING		AGGREGATE SURFACE COURSE, TYPE B
			TON	TON	

SIDE	STATION	TYPE	INCIDENTAL HOT-MIX ASPHALT SURFACING		AGGREGATE SURFACE COURSE, TYPE B
			TON	TON	

SIDE	STATION	TYPE	INCIDENTAL HOT-MIX ASPHALT SURFACING		AGGREGATE SURFACE COURSE, TYPE B
			TON	TON	

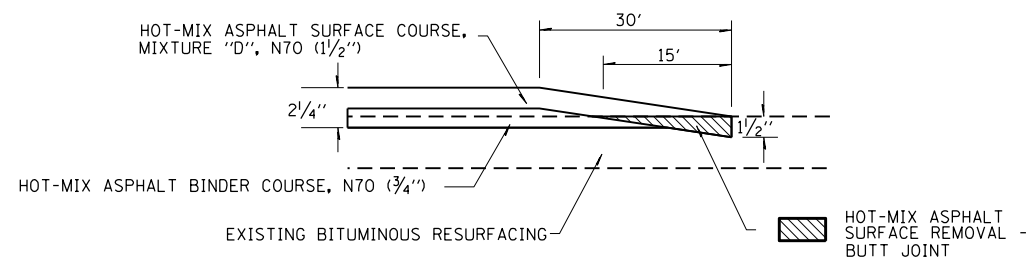
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PE=PRIVATE ENTRANCE MBT - MAILBOX TURNOUT
CE=COMMERCIAL ENTRANCE

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		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

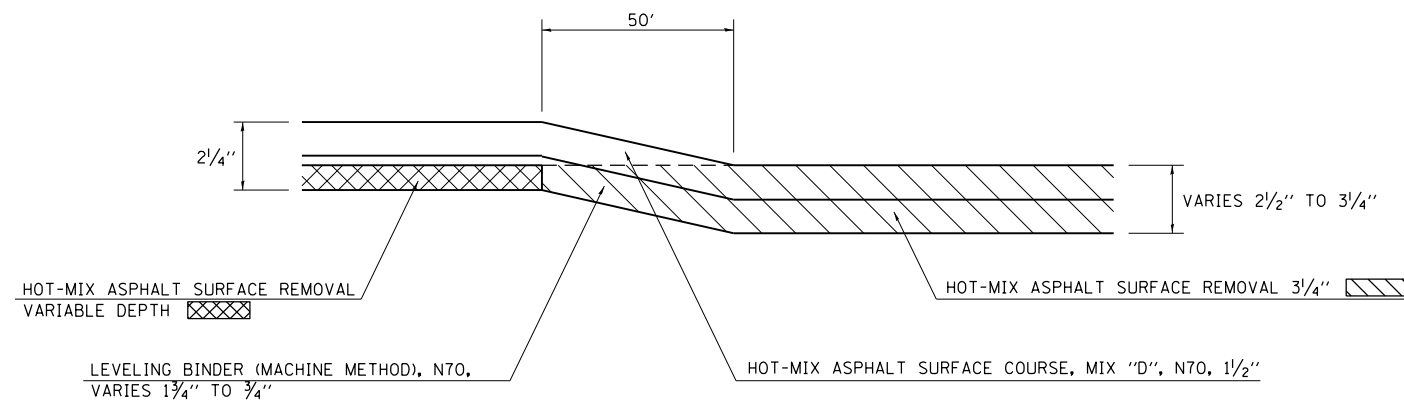
RURAL ENTRANCE SCHEDULE AND MAILBOX TURNOUT DETAILS WITH SHOULDERS			
SCALE: NA	SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(16,17,18)RS-2	LAWRENCE	40	28
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 94977	



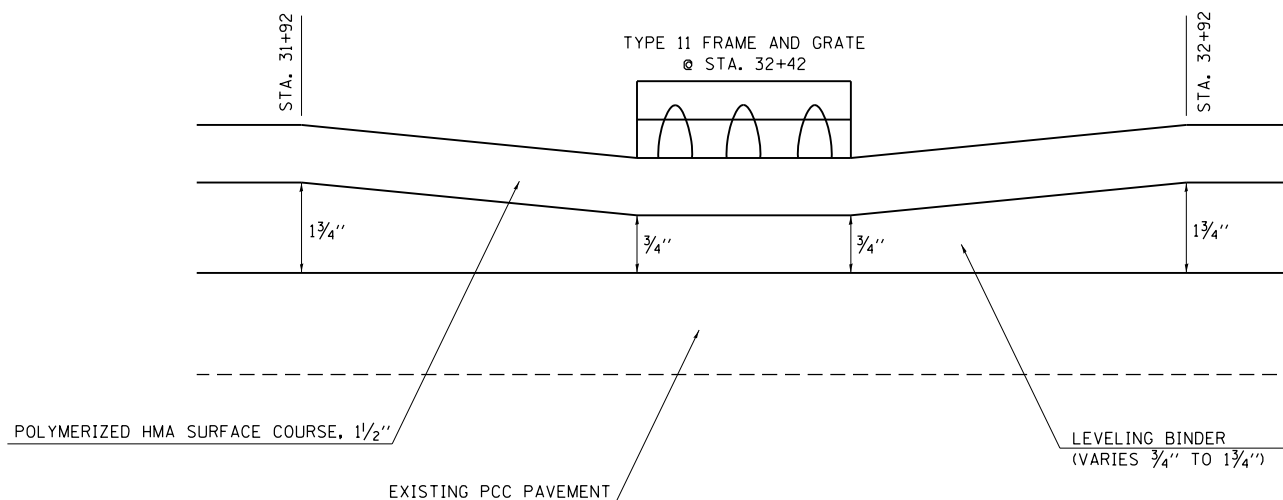
BUTT JOINT DETAIL

- STA. 54+43 TO STA. 54+73
- STA. 63+18 TO STA. 63+48
- STA. 82+80 TO STA. 83+10
- STA. 86+85 TO STA. 87+15
- STA. 252+90 TO STA. 253+20
- STA. 255+40 TO STA. 255+70
- STA. 303+98 TO STA. 304+28
- STA. 304+46 TO STA. 304+76
- STA. 440+43 TO STA. 440+73



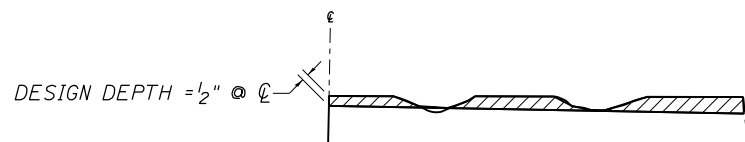
MILLING TRANSITION DETAIL

STA. 50+16 TO STA. 50+66



PAVING TRANSITION DETAIL

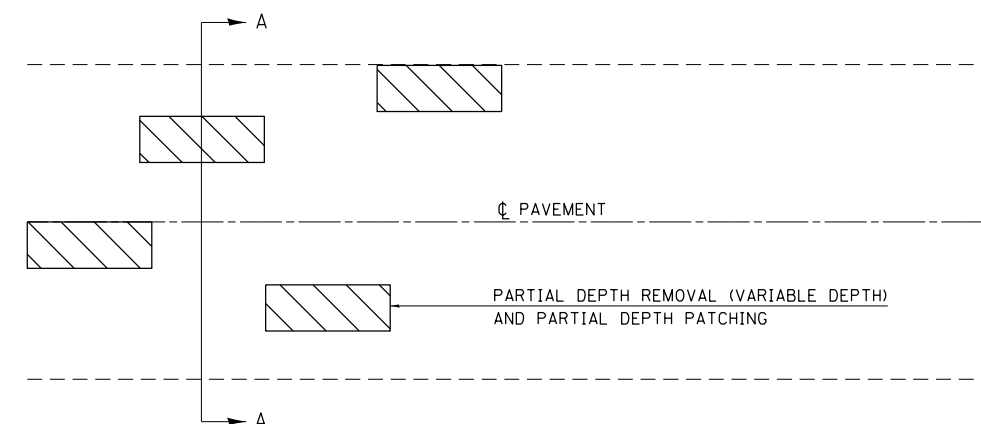
STA. 31+92 TO STA. 32+92



NOTES:

1. MILLING SHALL BE DONE TO ATTAIN A 3/16 "/FT. SLOPE IN CROWN SECTIONS
2. EXISTING S.E. AND S.E. TRANSITIONS SHALL BE MAINTAINED UNLESS OTHERWISE SHOWN ON THE PLANS.
3. MILLING TO THE BOTTOM OF WHEEL RUTS SHALL NOT BE NECESSARY UNLESS REQUIRED TO OBTAIN SLOPE OR THE DESIGN DEPTH AT CENTERLINE.
4. THE AVERAGE DEPTH OF MILLING IS ESTIMATED TO BE 1/2" BUT MAY VARY IN ISOLATED LOCATIONS.

HOT-MIX ASPHALT SURFACE REMOVAL (VARIABLE DEPTH) DETAIL



SECTION A-A

PARTIAL DEPTH PATCHING DETAIL

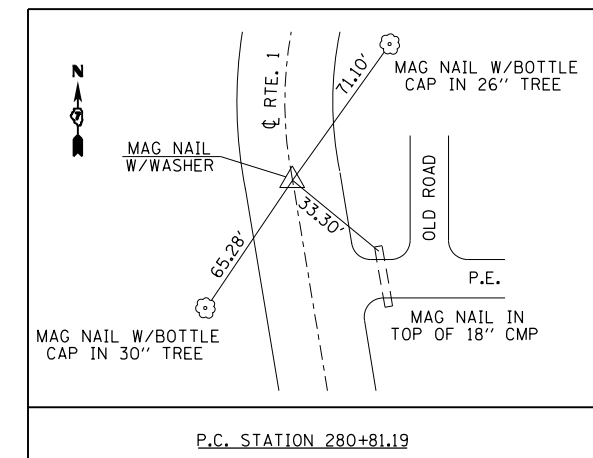
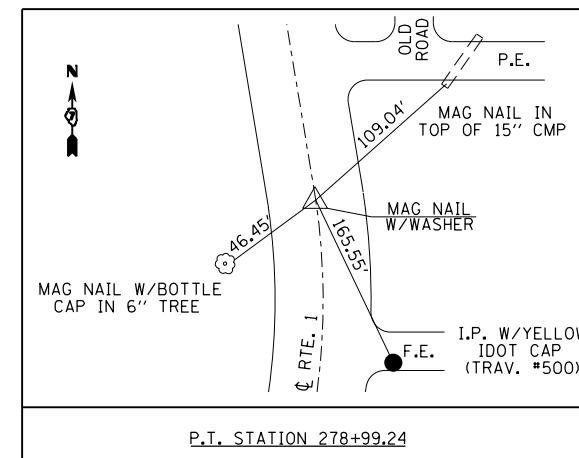
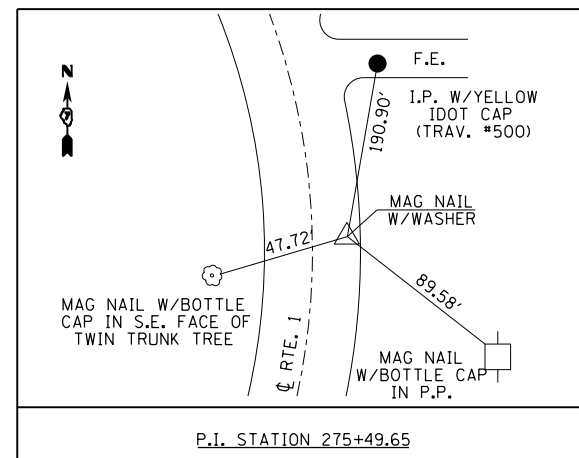
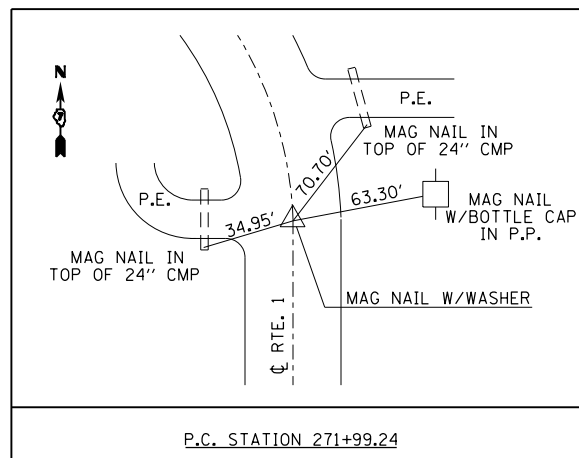
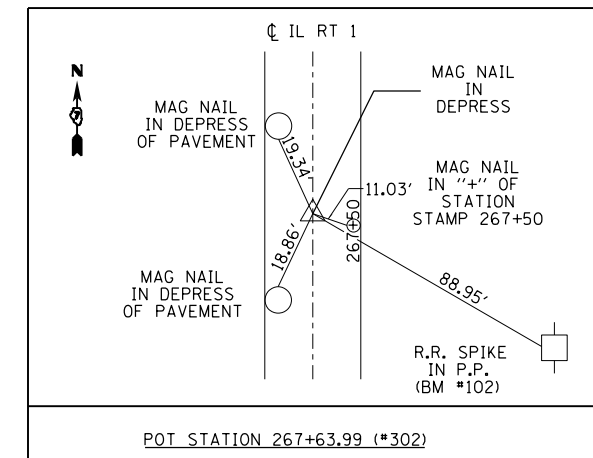
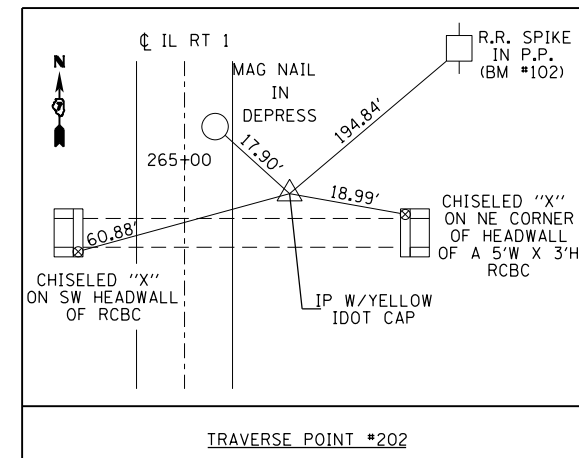
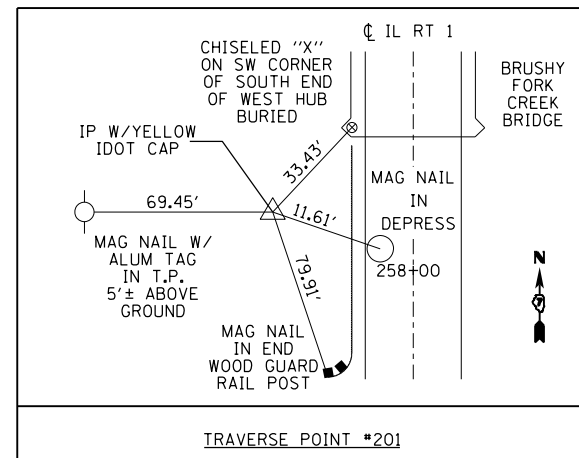
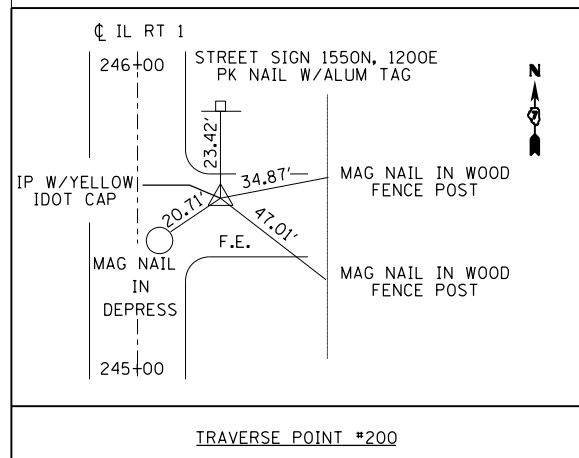
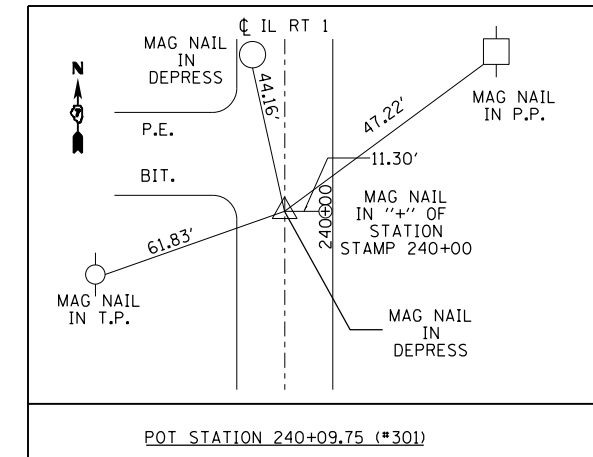
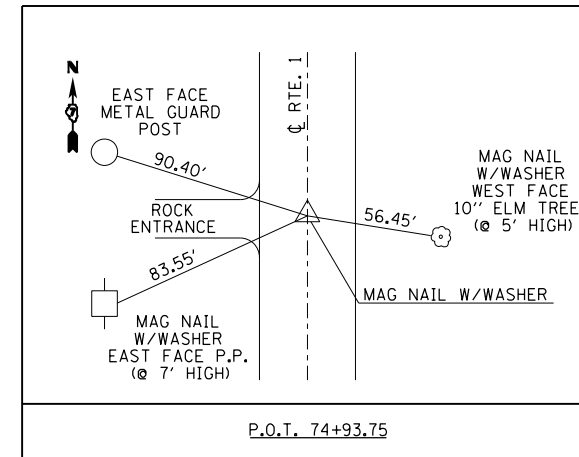
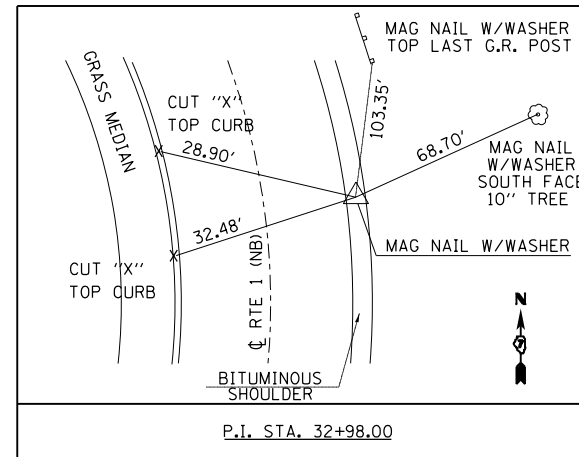
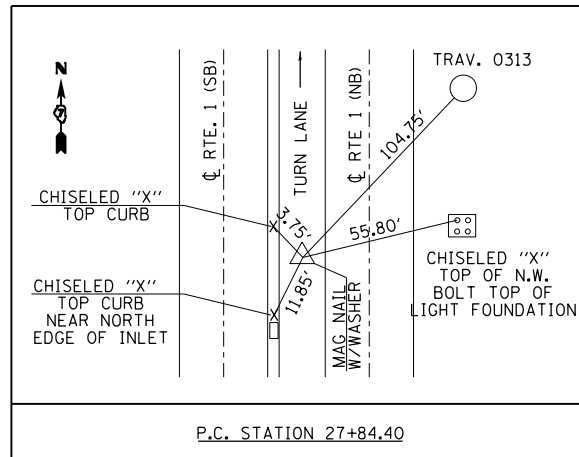
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		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CONSTRUCTION DETAILS

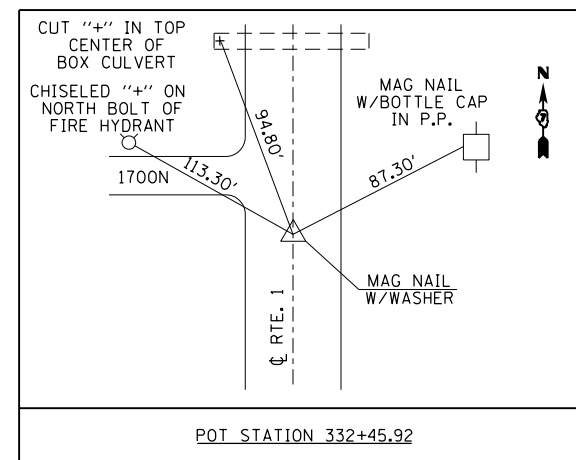
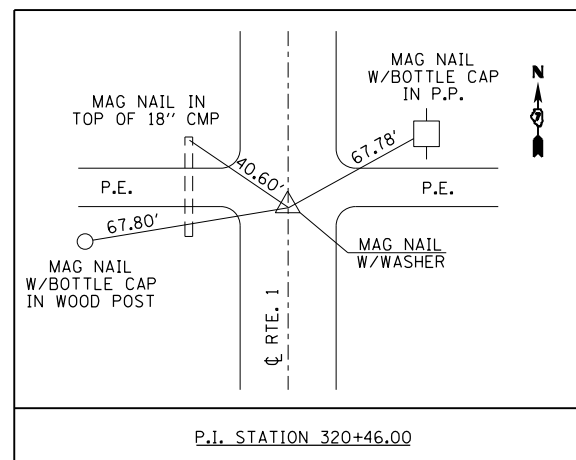
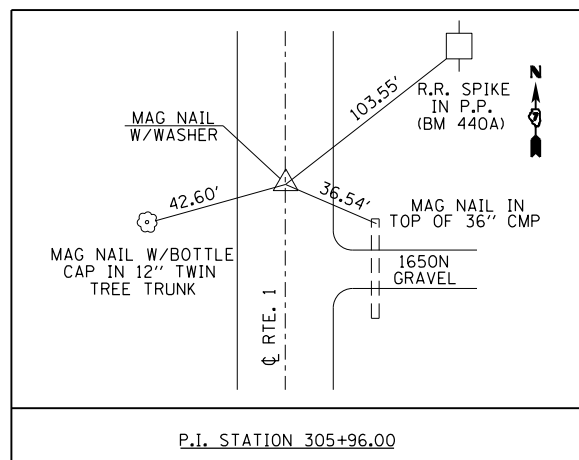
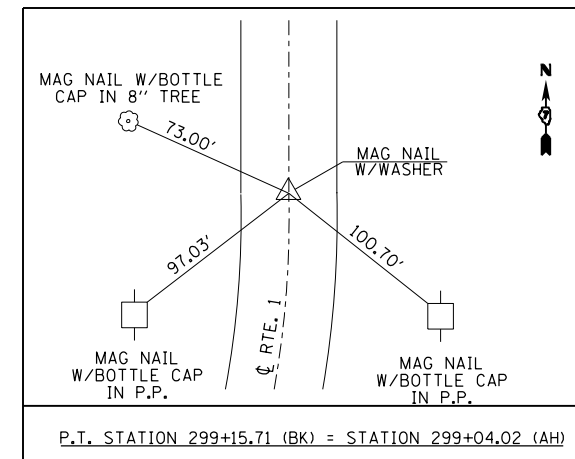
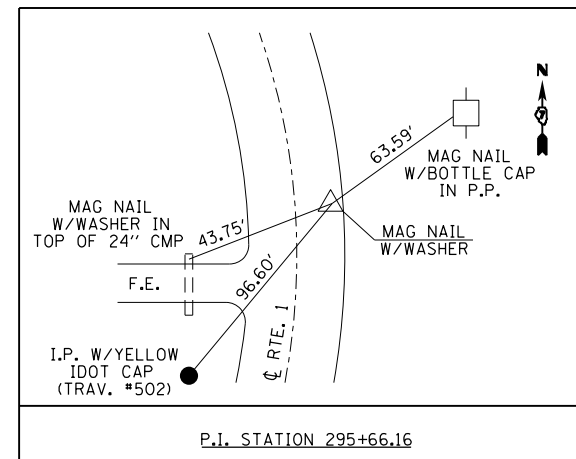
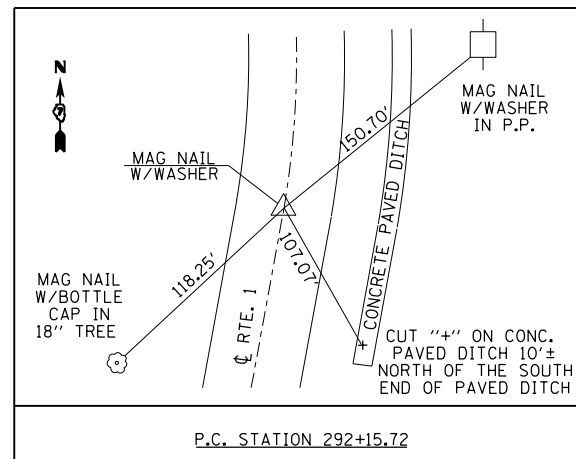
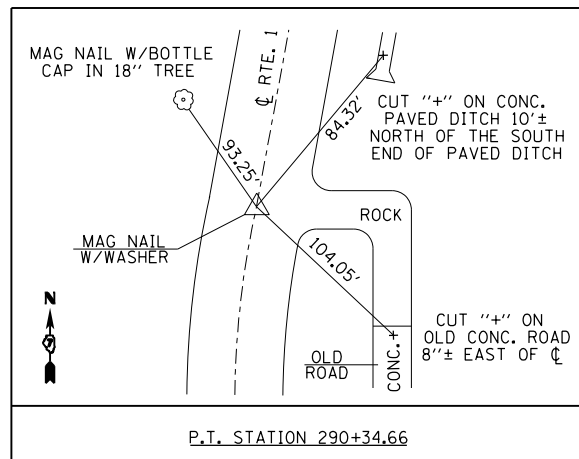
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(16.17.18)RS-2	LAWRENCE	40	29
CONTRACT NO. 94977			ILLINOIS FED. AID PROJECT	



NOTE: DRAWINGS NOT TO SCALE

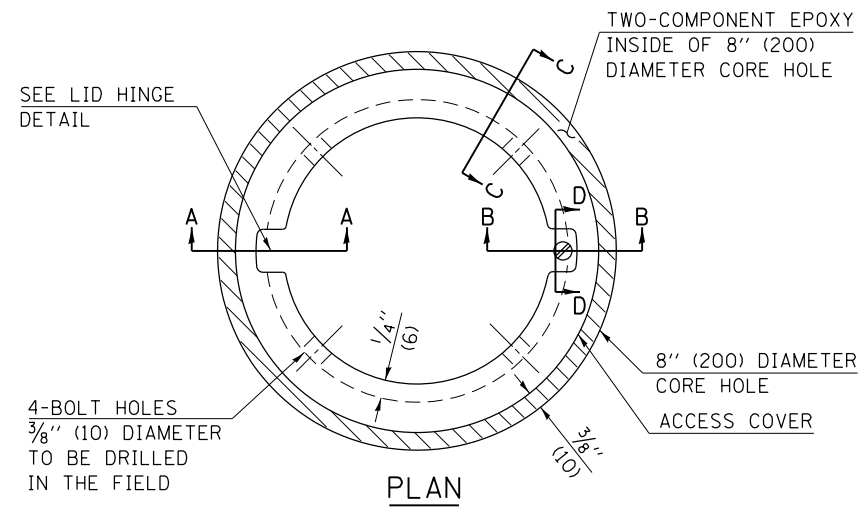
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PLOT SCALE = 100.0000' / 1"		CHECKED -	REVISED -										
PLOT DATE = 10/15/2012		DATE -	REVISED -										
CONTRACT NO. 94977													
ILLINOIS FED. AID PROJECT													



NOTE: DRAWINGS NOT TO SCALE

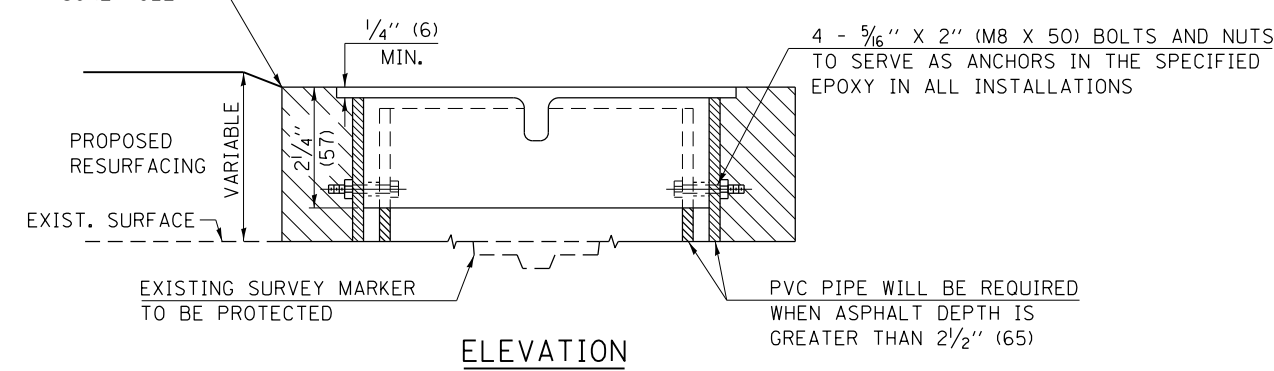
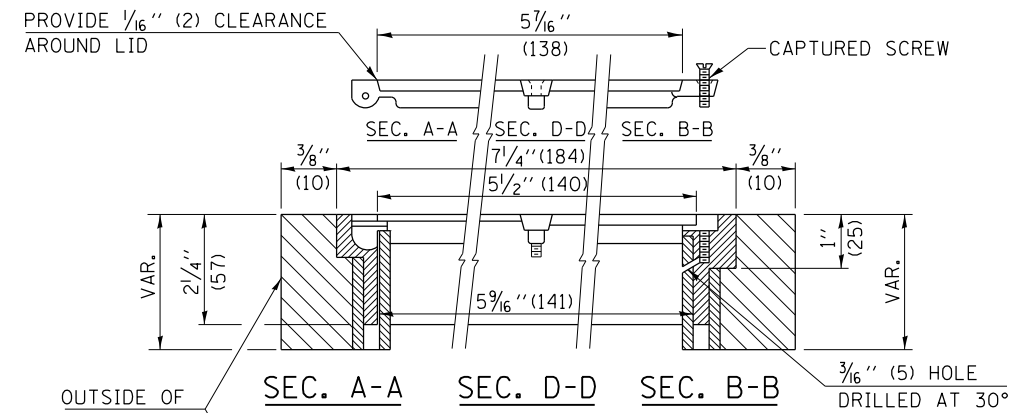
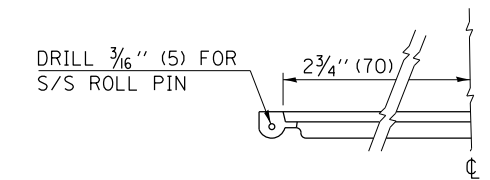
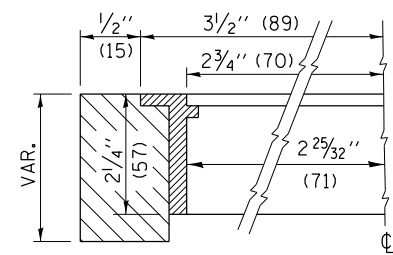
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ct:\pw\work\p\dot\stevfemk\d0263618\0784977-sh1-details.dgn		DRAWN -	REVISED -					332	(16,17,18)RS-2	LAWRENCE	40	31
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PLOT DATE = 10/15/2012		DATE -	REVISED -		CONTRACT NO. 94977							

ILLINOIS FED. AID PROJECT

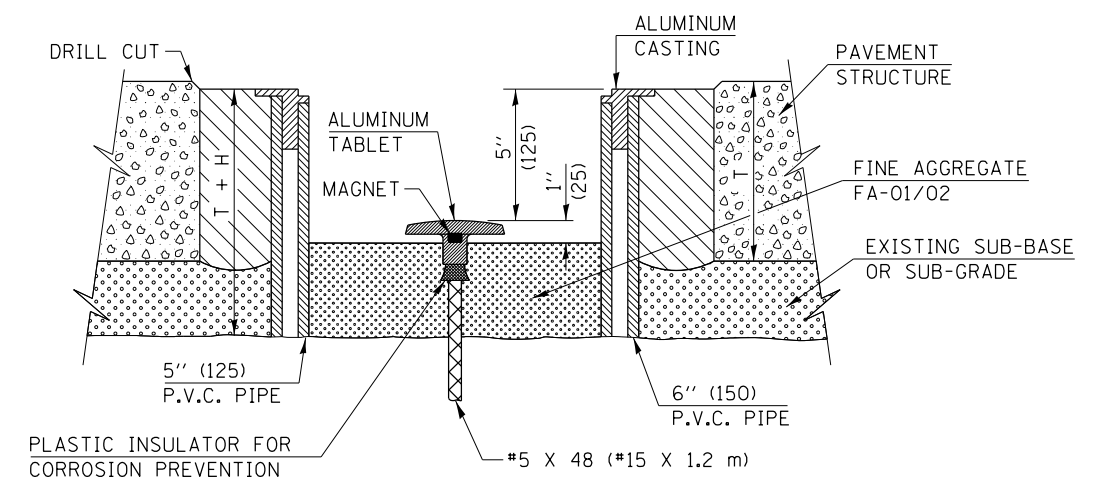


- LEGEND**
- ALUMINUM CASTING
 - 5" (125) OR 6" (150) P.V.C. PIPE
 - TWO-COMPONENT EPOXY
- T = THICKNESS OF PAVEMENT STRUCTURE
- H = THE THICKNESS OF THE SUB-BASE GRANULAR + 1" (25)

BILL OF MATERIAL	
ALUMINUM CASTING OF THE DIMENSIONS AND SPECIFICATIONS SHOWN OR OTHER SUBJECT TO ENGINEER'S APPROVAL OF SHOP DRAWINGS,	
4 EACH - 5/16" X 2" (M8 X 50) BOLTS WITH NUTS, EPOXY,	
5" OR 6" (125 mm OR 150 mm) DIAMETER P.V.C. PIPE, SCHEDULE 40 (WHEN REQUIRED).	



EXISTING SURVEY MARKER



PROPOSED SURVEY MARKER

NOT TO SCALE

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

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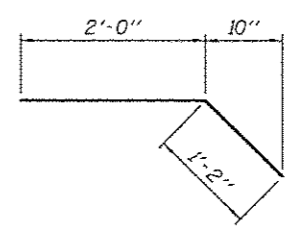
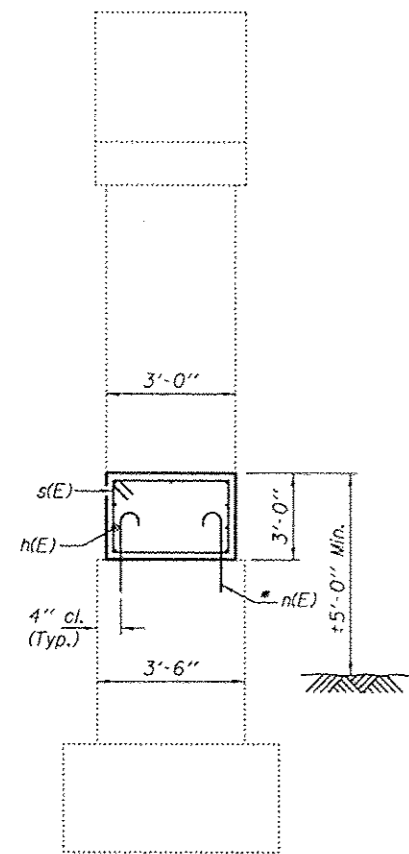
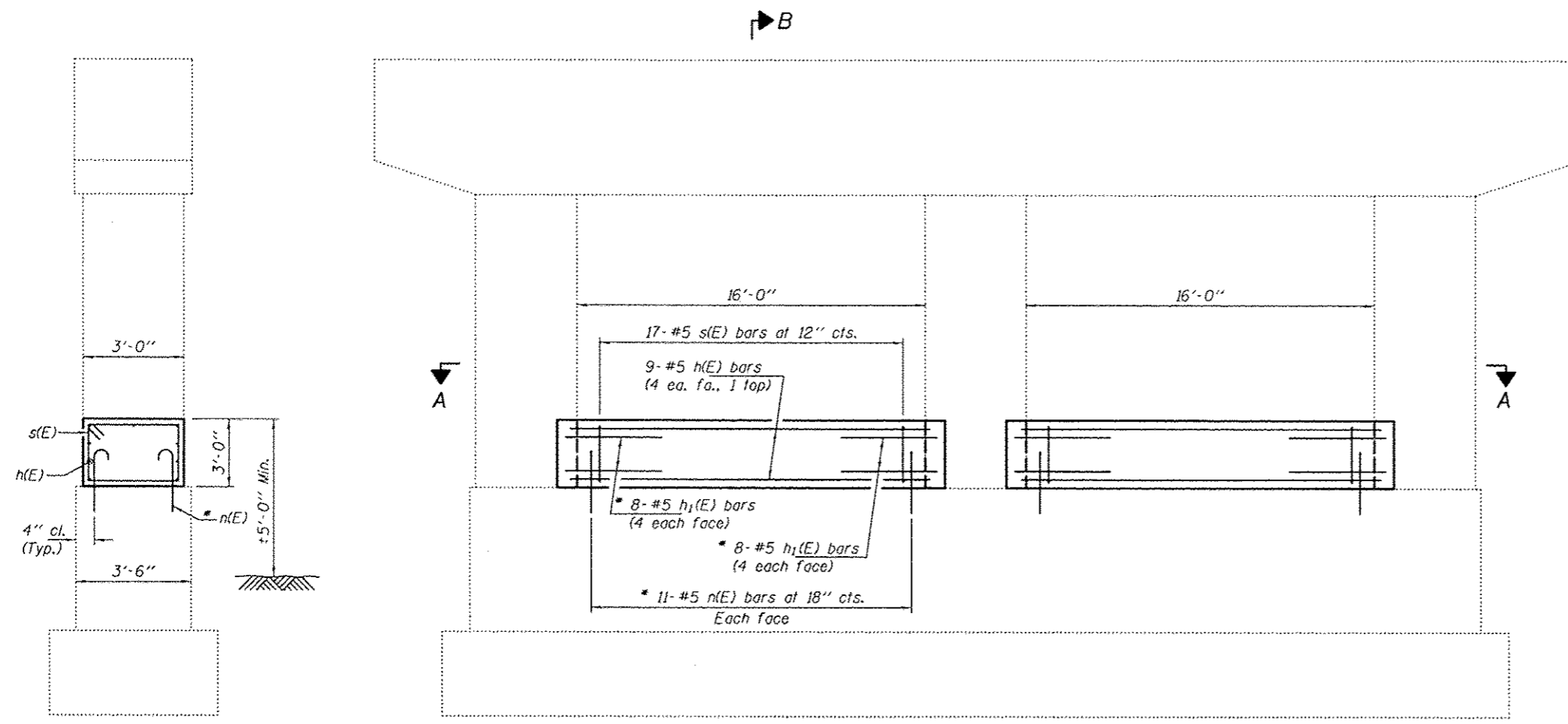
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SURVEY MARKER VAULT			
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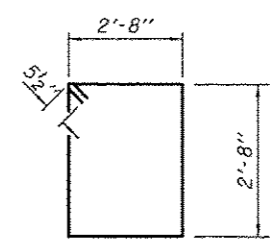
DISTRICT 7 DETAIL NO. Z0070202				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(16,17,18)RS-2	LAWRENCE	40	32
			CONTRACT NO. 94977	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

NOTES

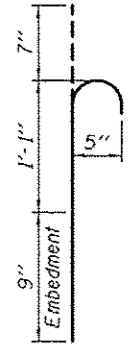
The cost of epoxy grouting threaded rods shall be included with Reinforcement Bars, Epoxy Coated.
 Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work. Reinforcement bars designated (E) shall be epoxy coated.



BAR h1(E)

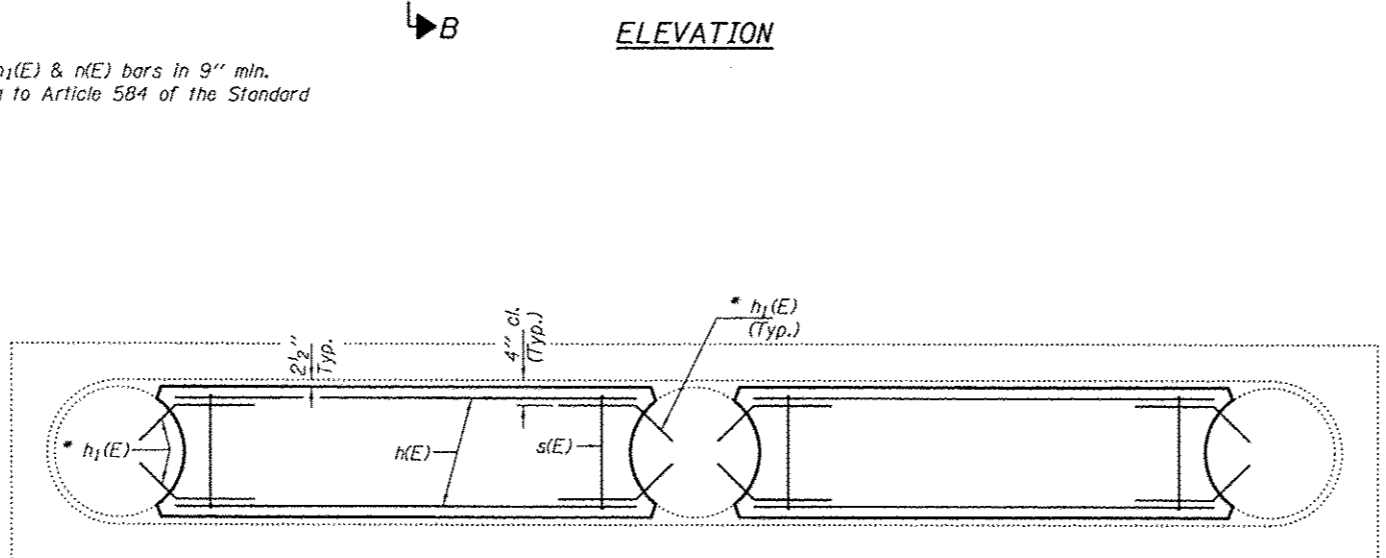


BAR s(E)



BAR n(E)

* Epoxy grout h1(E) & n(E) bars in 9" min. holes according to Article 584 of the Standard Specifications.



SECTION A-A

BILL OF MATERIAL

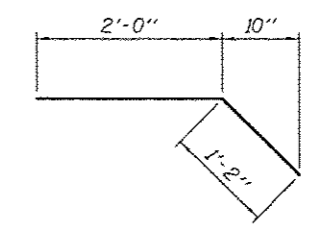
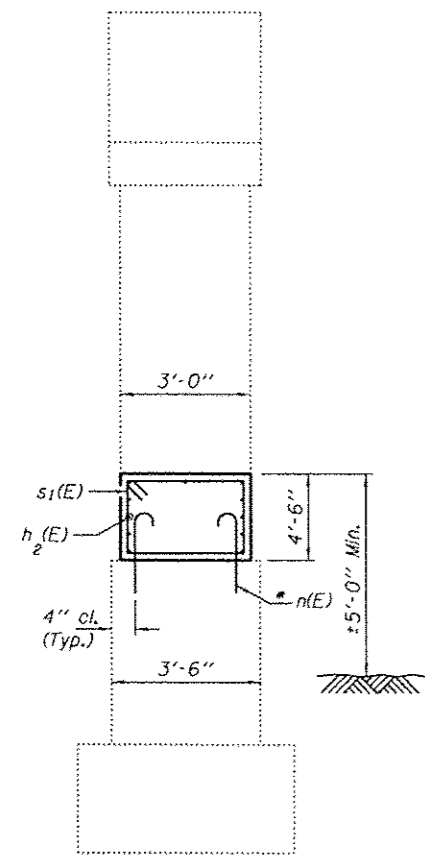
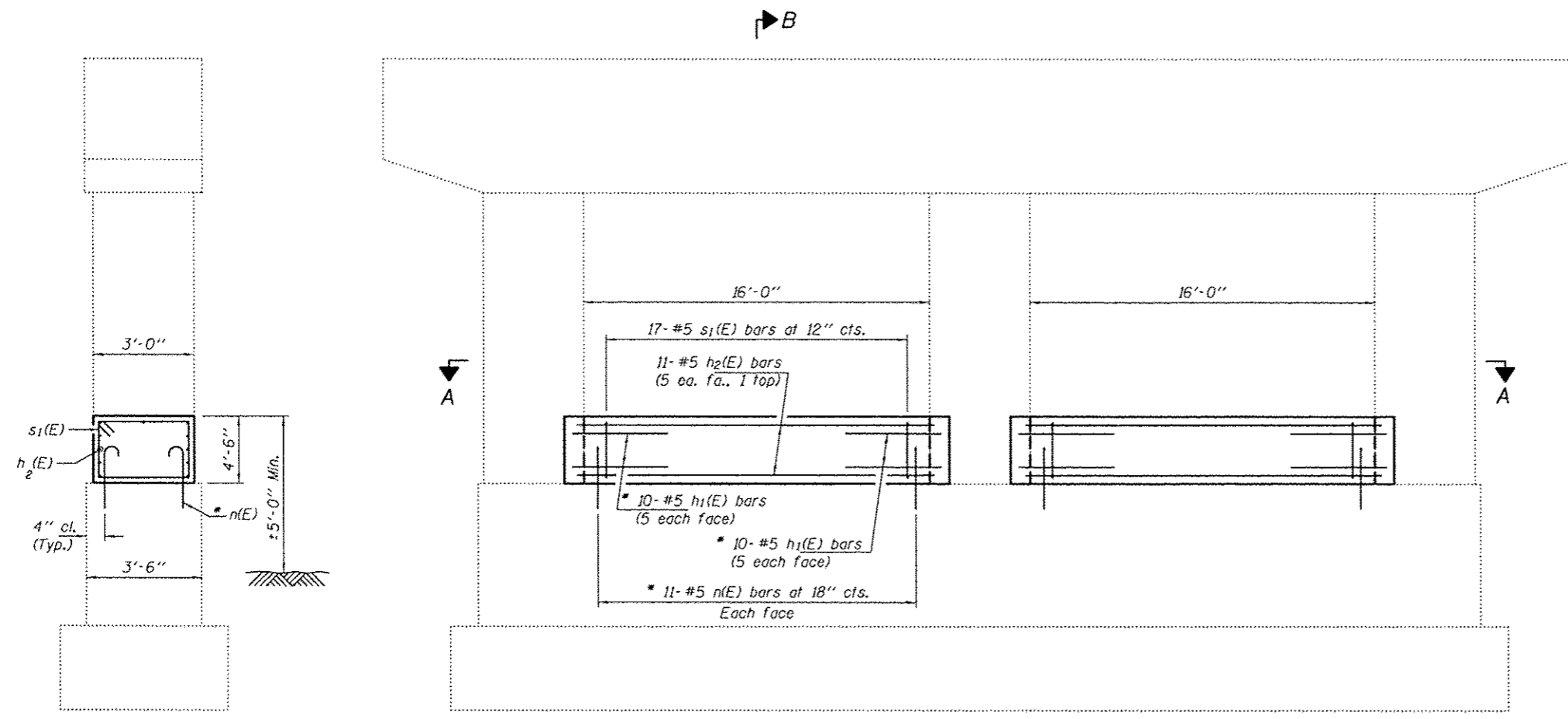
Bar	No.	Size	Length	Shape
n(E)	18	#5	16'-4"	—
h1(E)	32	#5	3'-2"	—
n(E)	44	#5	2'-5"	—
s(E)	34	#5	11'-7"	□
Concrete Structures			Cu. Yd.	11.0
Reinforcement Bars, Epoxy Coated			Pound	930



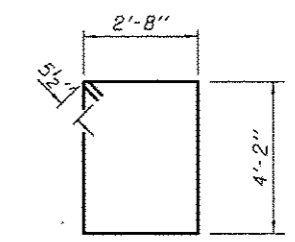
David Carl Puzey 2/21/13 Expires 11/30/14

NOTES

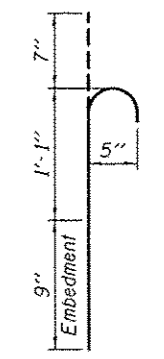
The cost of epoxy grouting threaded rods shall be included with Reinforcement Bars, Epoxy Coated.
 Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
 Reinforcement bars designated (E) shall be epoxy coated.



BAR h1(E)

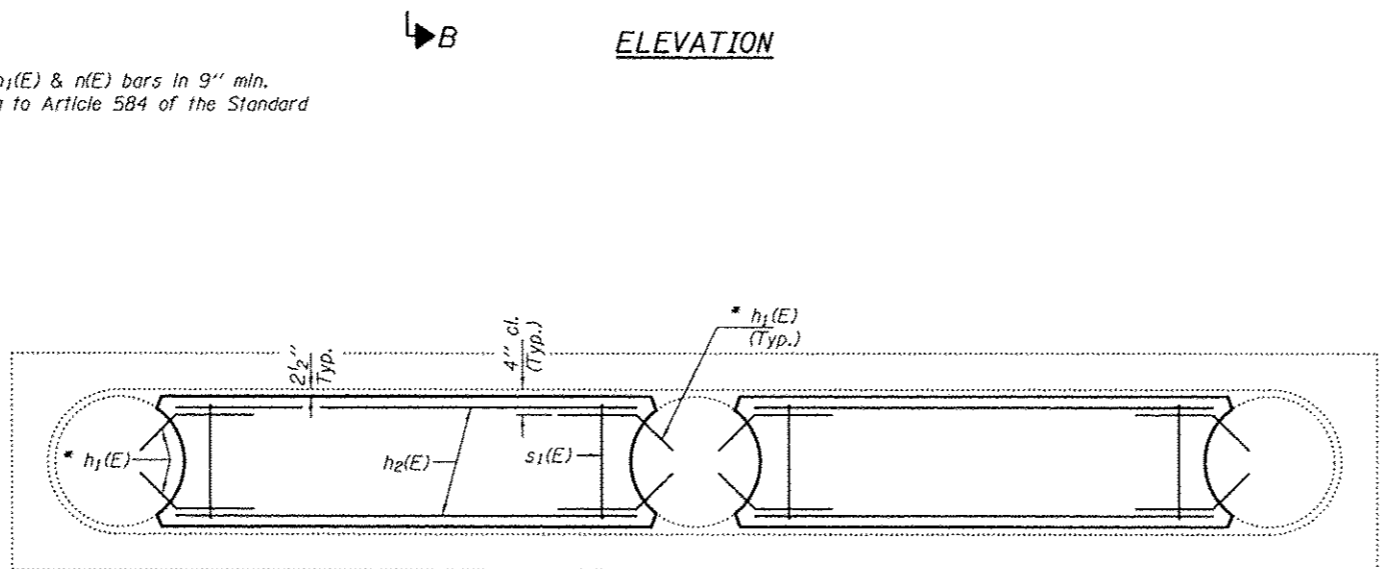


BAR s2(E)



BAR n(E)

* Epoxy grout h1(E) & n(E) bars in 9" min. holes according to Article 584 of the Standard Specifications.

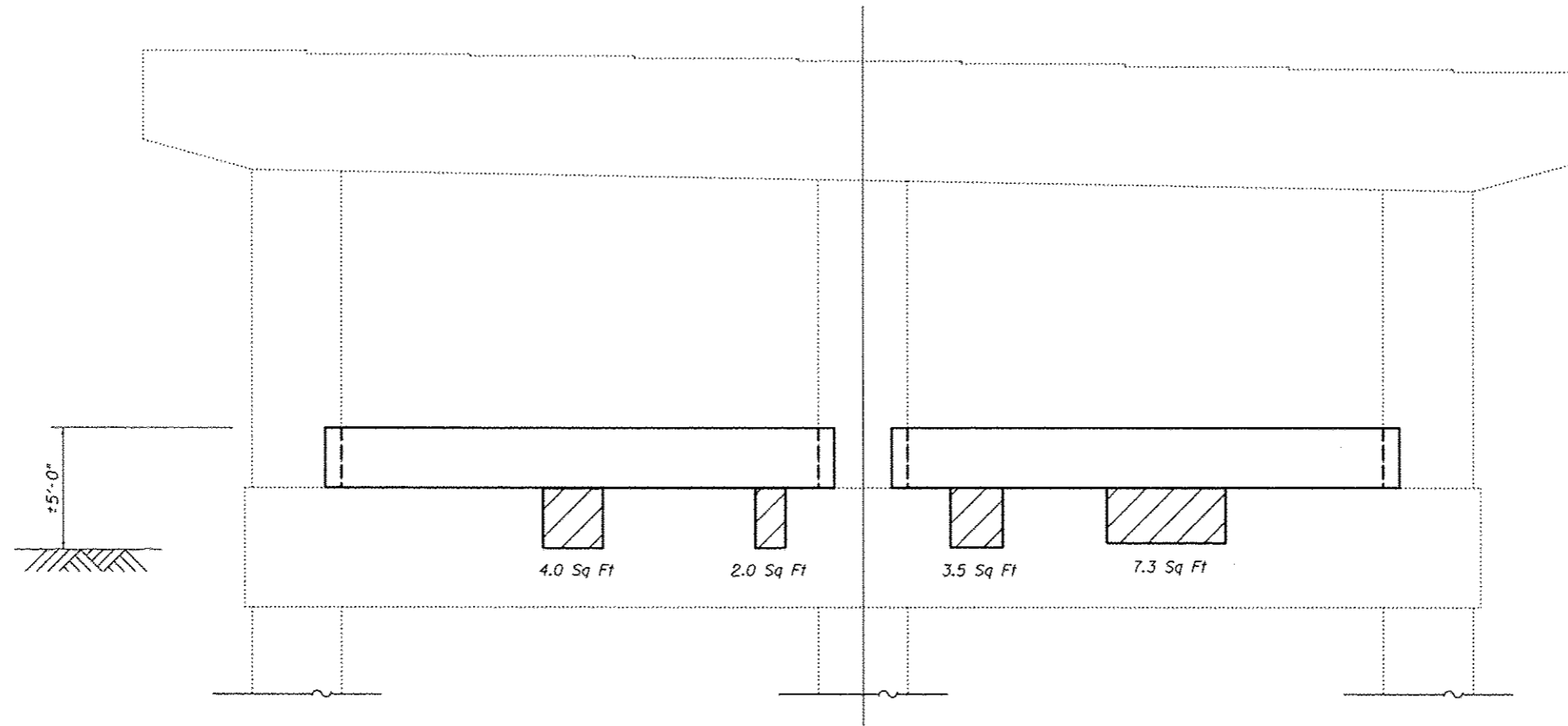


SECTION A-A


BILL OF MATERIAL

Per pier (Two piers total)

Bar	No.	Size	Length	Shape
h1(E)	40	#5	3'-2"	┌
h2(E)	22	#5	16'-4"	—
n(E)	44	#5	2'-5"	└
s1(E)	34	#5	14'-8"	□
Concrete Structures			Cu. Yd.	16.5
Reinforcement Bars, Epoxy Coated			Pound	1140



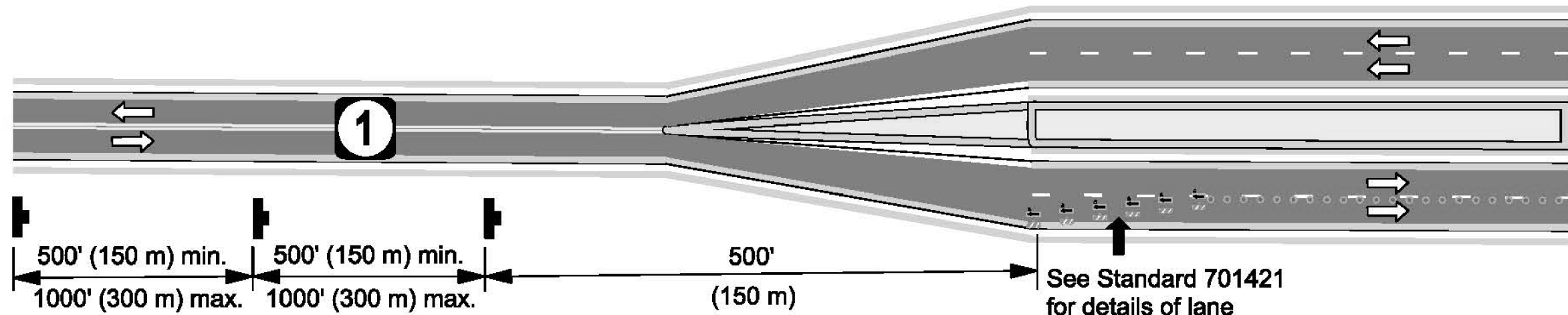
051-0012
 PIER #1 (WEST PIER), EAST FACE

 Structural Repair of Concrete (Depth <5")

CONCRETE REPAIR
 Cost Included In Structural Repair
 of Concrete (Depth <5")

Structure	Location	Area Sq Ft
051-0012	West Pier	16.8
Total		16.8

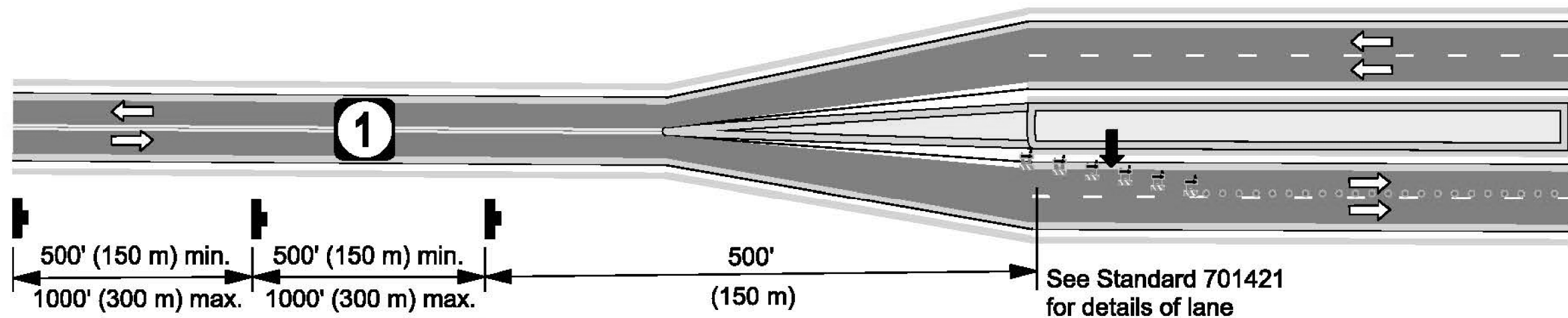
FILE NAME *	USER NAME * #USER*	DESIGNED - KLB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CONCRETE REPAIR SN. 051-0012		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILEL*		DRAWN - KLB	REVISED -		332	(16.17.18)RS-2	LAWRENCE	40	35			
PLDT SCALE * #SCALE*		CHECKED - MEA	REVISED -		SCALE:		SHEET 3 OF 3 SHEETS		STA.	TO STA.	CONTRACT NO. 94977	
PLDT DATE * #DATE*		DATE - 12/27/11	REVISED -		ILLINOIS FED. AID PROJECT							



ROAD CONSTRUCTION AHEAD
W20-1103(O)-48

WORK ZONE W2-1115(O)-3818
SPEED LIMIT 45 R2-1-3848
BEGINS W2-1113(O)-3812
BOOK MINIMUM FINE R2-1106-3618

W1-4L(O)-48



ROAD CONSTRUCTION AHEAD
W20-1103(O)-48

WORK ZONE W2-1115(O)-3818
SPEED LIMIT 45 R2-1-3848
BEGINS W2-1113(O)-3812
BOOK MINIMUM FINE R2-1106-3618

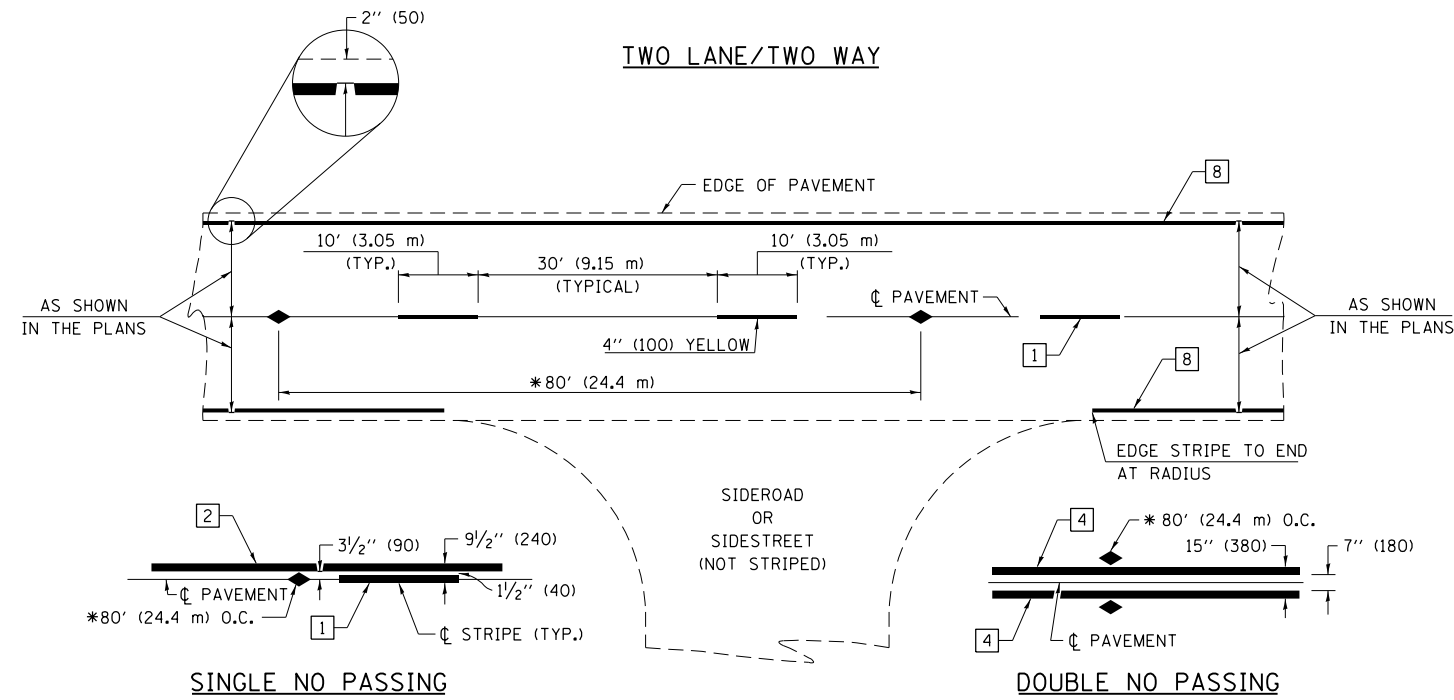
W1-4R(O)-48

NOTES:

APPLIES TO NORTHBOUND AND SOUTHBOUND CONDITIONS.

TRAFFIC CONTROL DETAIL TO BE USED IN TRANSITION AREAS FROM TWO LANES TO FOUR LANES AND VICE VERSA. COST SHALL BE INCLUDED IN "TRAFFIC CONTROL AND PROTECTION, STANDARD 701421".

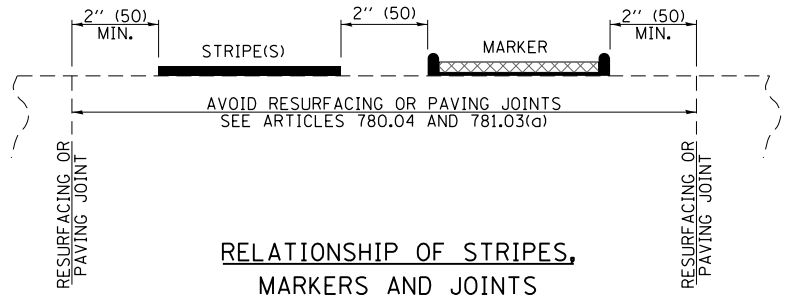
FILE NAME =	USER NAME = steffenk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL DETAIL			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pw\work\p\dot\stefenk\d0263618\0784977-sh1-details.dgn		DRAWN -	REVISED -		332	(16.17,18)RS-2	LAWRENCE	40	36			
PLOT SCALE = 100.0000' / in.		CHECKED -	REVISED -		CONTRACT NO. 94977							
PLOT DATE = 10/15/2012		DATE -	REVISED -		ILLINOIS FED. AID PROJECT							
				SCALE: NA	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.					



* REDUCE TO 40' (12.2 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEEDS OF 45 mph (70 km/h) OR LESS.

PAVEMENT MARKING LEGEND

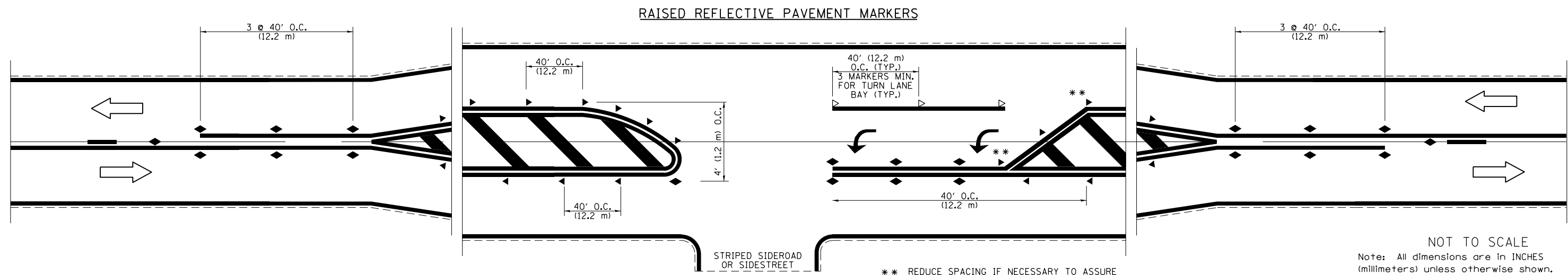
- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 12" (300) SOLID WHITE
- 6 RESERVED
- 7 6" (150) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 4" (100) PARKING WHITE



RELATIONSHIP OF STRIPES, MARKERS AND JOINTS

TYPICAL PAVEMENT MARKERS LEGEND

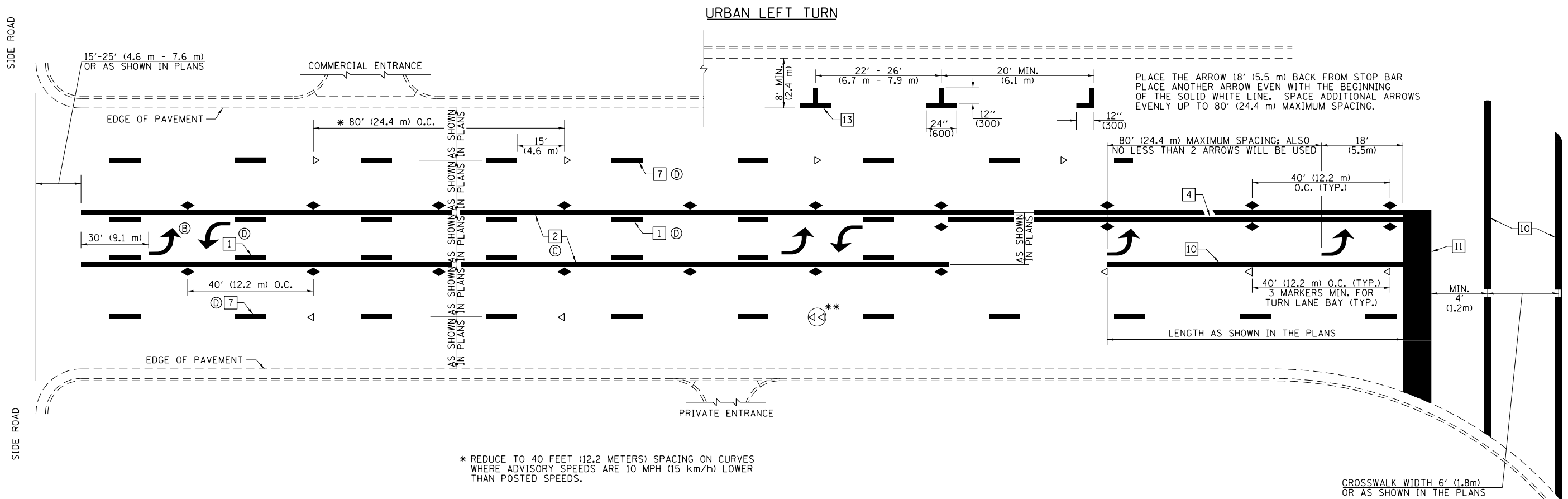
- ◆ TWO-WAY AMBER MARKER
- ▶ ONE-WAY AMBER MARKER
- ▷ ONE-WAY CRYSTAL MARKER



** REDUCE SPACING IF NECESSARY TO ASSURE MARKERS AT CORNER POINTS.

NOT TO SCALE
Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS (RURAL & URBAN APPLICATIONS)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ci:\pw\work\p\idot\steffenmk\d0263618\0784977-sh1-details.dgn		DRAWN -	REVISED -			332	(16,17,18)RS-2	LAWRENCE	40	37
PLOT SCALE = 100.0000' / 1in.		CHECKED -	REVISED -			CONTRACT NO. 94977				
PLOT DATE = 10/15/2012		DATE -	REVISED -			ILLINOIS FED. AID PROJECT				



PLACE THE ARROW 18' (5.5 m) BACK FROM STOP BAR
 PLACE ANOTHER ARROW EVEN WITH THE BEGINNING
 OF THE SOLID WHITE LINE. SPACE ADDITIONAL ARROWS
 EVENLY UP TO 80' (24.4 m) MAXIMUM SPACING.

* REDUCE TO 40 FEET (12.2 METERS) SPACING ON CURVES
 WHERE ADVISORY SPEEDS ARE 10 MPH (15 km/h) LOWER
 THAN POSTED SPEEDS.

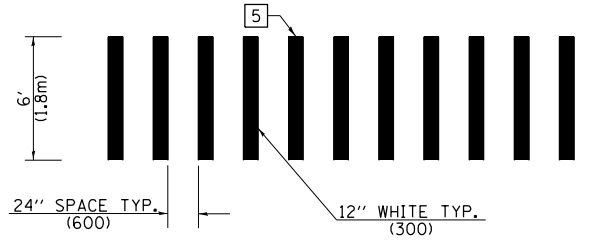
** DOUBLE LANE LINE MARKERS SHALL BE SPECIFIED
 AND SPACED AS SHOWN IN HIGHWAY STANDARD
 781001 FOR MULTI-LANE DIVIDED AND UNDIVIDED
 HIGHWAYS.

PAVEMENT MARKING LEGEND

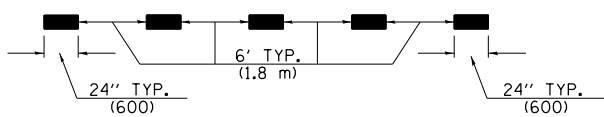
- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 12" (300) SOLID WHITE
- 6 RESERVED
- 7 6" (150) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 4" (100) PARKING WHITE

GENERAL NOTES

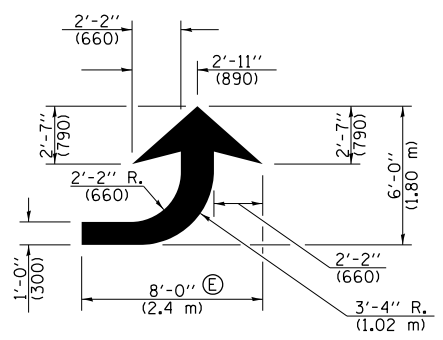
1. TURN ARROW PAIRS SHALL BE PLACED AT 250' (75 m) INTERVALS AND SHALL BE EVENLY SPACED BETWEEN BOTH ENDS OF THE BIDIRECTIONAL LEFT TURN LANE. USE A MINIMUM OF TWO PAIRS PER BLOCK.
2. THE SOLID YELLOW PAVEMENT MARKINGS [2] SHOULD GENERALLY START OR END NEAR THE RADIUS POINT OF EACH STREET RETURN EXCEPT WHERE ONE OR BOTH ENDS WOULD INCLUDE STOP BARS.
3. THE SKIP-DASH PAVEMENT MARKINGS [1] OR [7] SHOULD BE CENTERED BETWEEN BOTH ENDS OF EACH CITY BLOCK AND SHALL BE PLACED SO THEY LINE UP ACROSS FROM EACH OTHER.
4. USE LARGE ARROW SIZE FOR BOTH RURAL AND URBAN LOCATIONS. (SEE LAST PAGE OF SECTION 780x FOR SYMBOLS TABLE)
5. LANE LINE EXTENSIONS SHALL BE THE SAME COLOR AND WIDTH AS THE LANE LINE BEING EXTENDED.



**CROSSWALK DETAIL
 (DECATUR CITY LIMITS ONLY)**

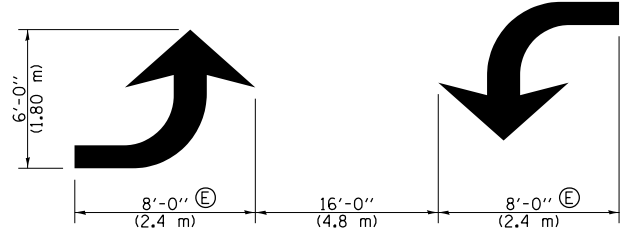


LANE LINE EXTENSIONS



LEFT ARROW

REVERSE FOR RIGHT ARROW
 AREA = 15.6 SQ. FT. (1.47 m²)
 (WHITE)



**TYPICAL DOUBLE
 TURN ARROWS (WHITE)**

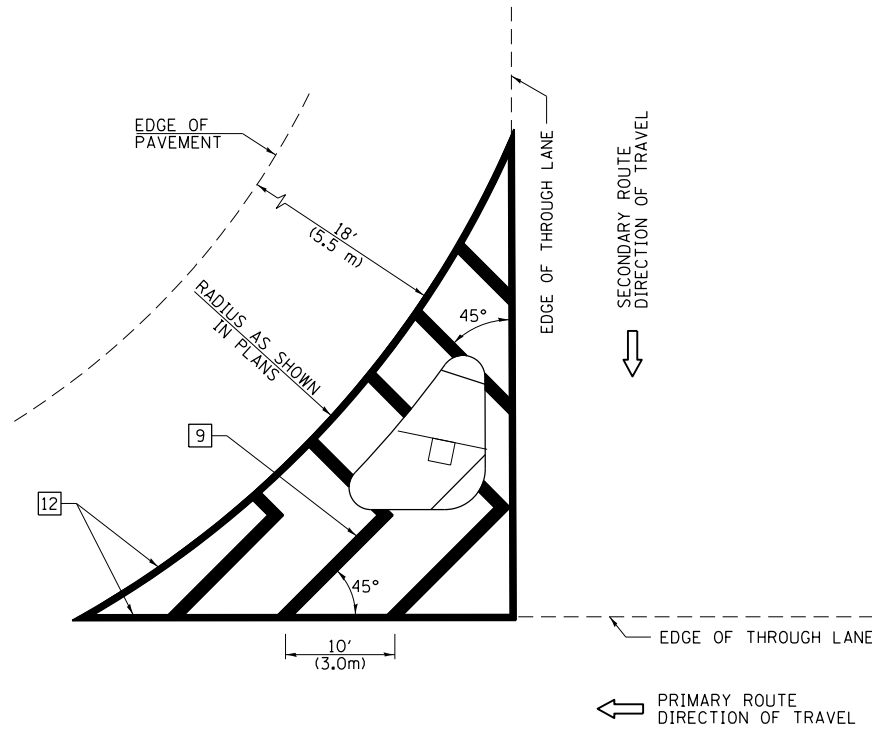
NOT TO SCALE

Note: All dimensions are in INCHES
 (millimeters) unless otherwise shown.

DISTRICT 7 DETAIL NO. 7800001

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS (RURAL & URBAN APPLICATIONS)		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ci:\pw\work\p\idot\steffenmk\d0263618\0784977-sh1-details.dgn	PLOT SCALE = 100.0000' / 1" =	DRAWN -	REVISED -				332	(16,17,18)RS-2	LAWRENCE	40	38
	PLOT DATE = 10/15/2012	CHECKED -	REVISED -				CONTRACT NO. 94977				
		DATE -	REVISED -				ILLINOIS FED. AID PROJECT				

ISLAND

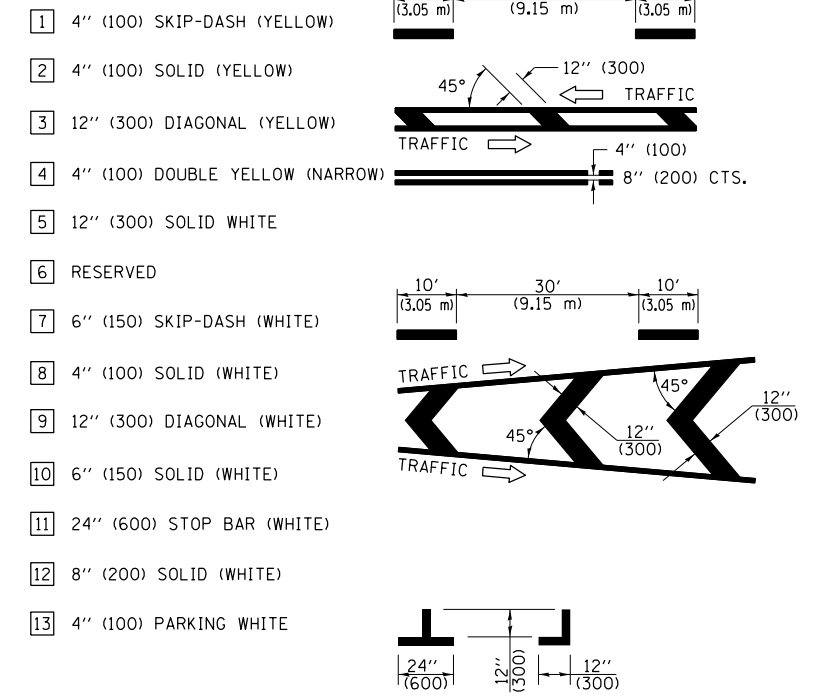


GENERAL NOTES

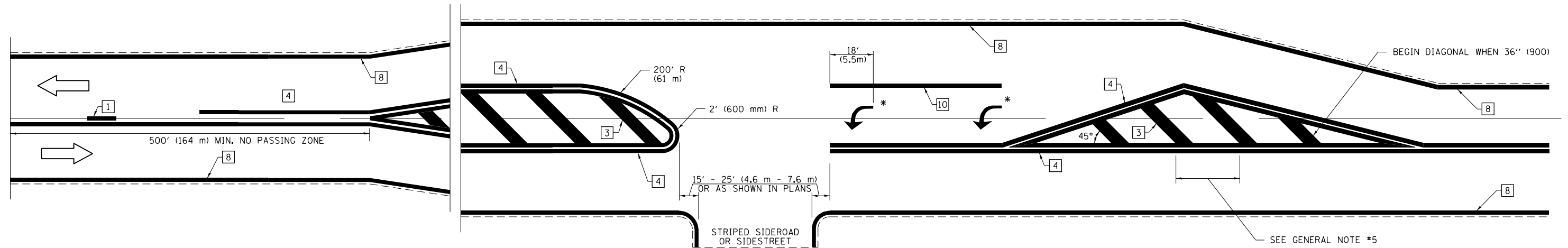
1. RAISED AND CORRUGATED MEDIANS SHALL BE OUTLINED WITH [2] IF PRESENT.
2. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
3. PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
4. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING ANY RAISED REFLECTIVE PAVEMENT MARKERS.
5. THE FOLLOWING CRITERIA SHALL BE USED FOR SELECTING THE DIAGONAL PAVEMENT MARKING SPACING:

< 30 MPH (< 50 km/h)	15' (4.5 m)
30-45 MPH (50-75 km/h)	20' (6.0 m)
> 45 MPH (> 75 km/h)	30' (9.0 m)

PAVEMENT MARKING LEGEND



RURAL LEFT TURN STRIPING



* PLACE AN ARROW 18' (5.5 m) BACK FROM STOP BAR. PLACE ANOTHER ARROW EVEN WITH THE BEGINNING OF THE SOLID WHITE LINE. SPACE ADDITIONAL ARROWS EVENLY UP TO 80' (24.4 m) MAXIMUM SPACING. USE MINIMUM OF 2 ARROWS.

NOT TO SCALE

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 7 DETAIL NO. 7800001

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
ci:\pw\work\p\idot\steffenmk\d0263618\0784977-sh1-details.dgn		DRAWN -	REVISED -
	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED -
	PLOT DATE = 10/15/2012	DATE -	REVISED -

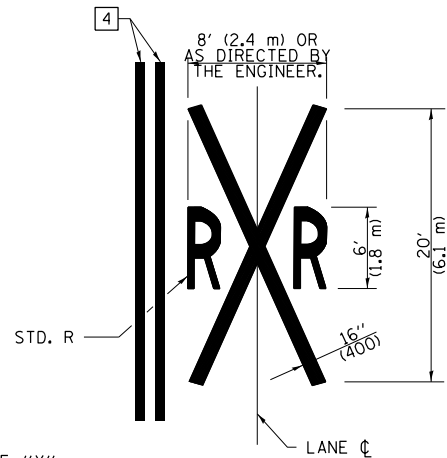
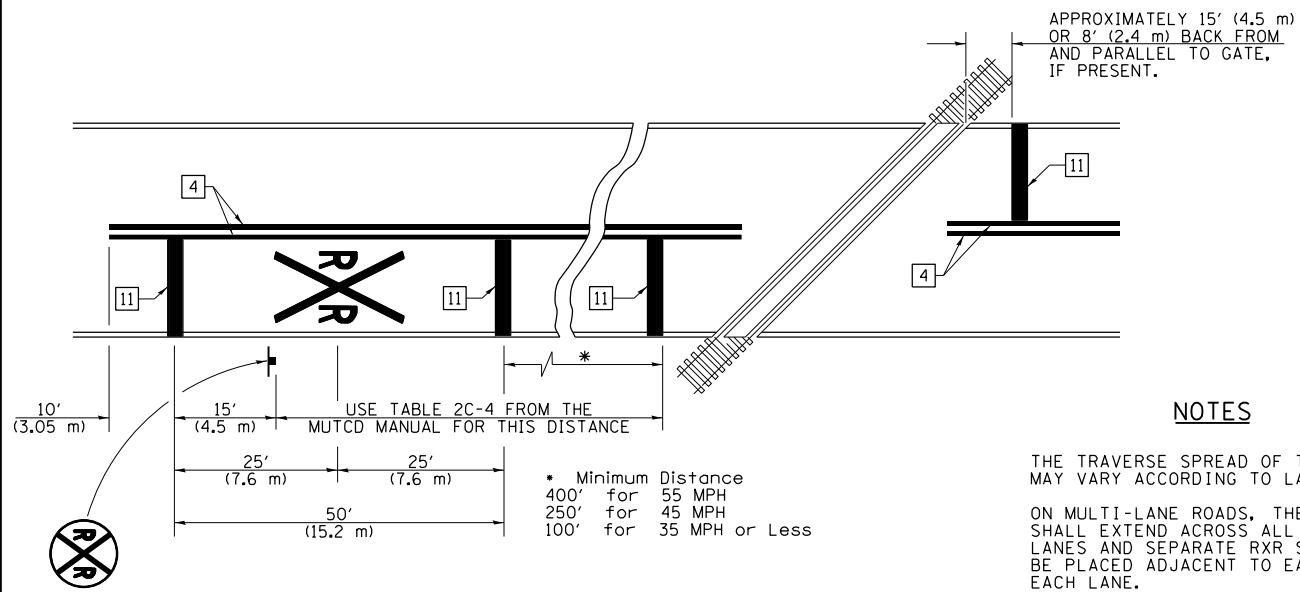
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS
(RURAL & URBAN APPLICATIONS)**

SCALE: NA SHEET NO. 3 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(16,17,18)RS-2	LAWRENCE	40	39
CONTRACT NO. 94977				
ILLINOIS FED. AID PROJECT				

PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING



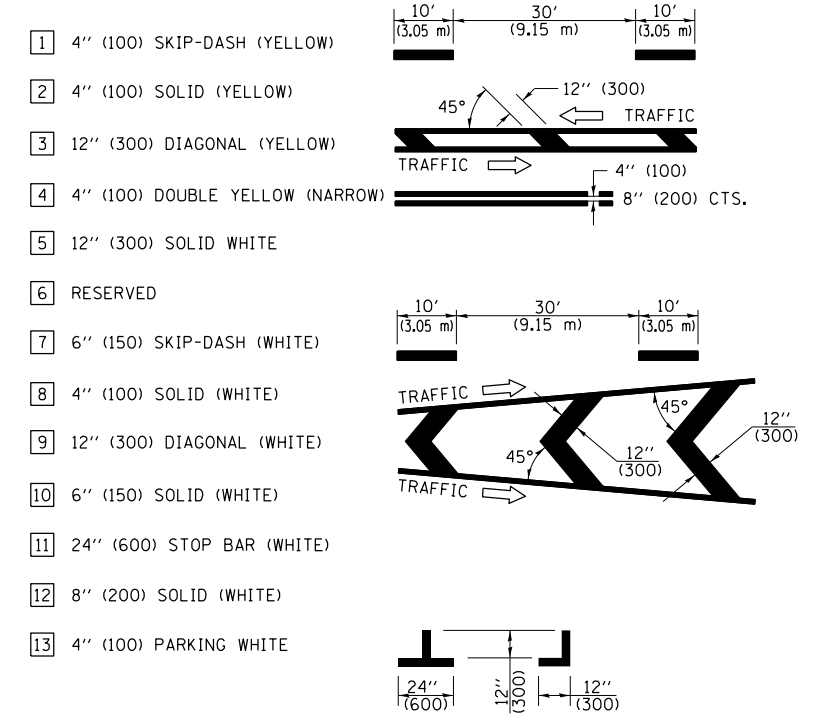
NOTES

THE TRAVERSE SPREAD OF THE "X" MAY VARY ACCORDING TO LANE WIDTH.

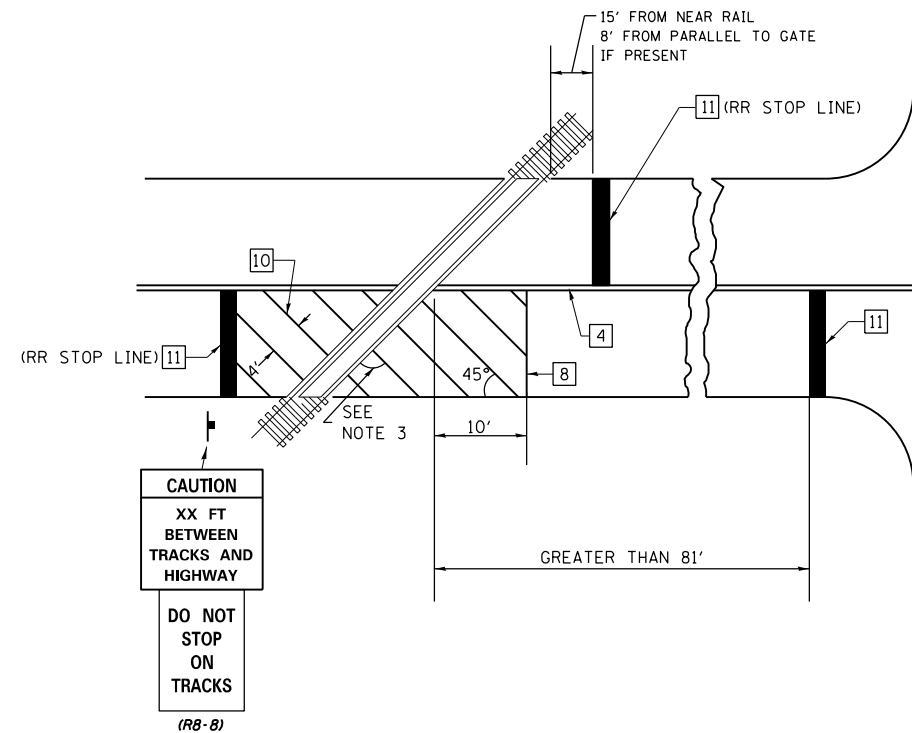
ON MULTI-LANE ROADS, THE STOP LINES SHALL EXTEND ACROSS ALL APPROACH LANES AND SEPARATE RXR SYMBOLS SHALL BE PLACED ADJACENT TO EACH OTHER IN EACH LANE.

WHEN THE PAVEMENT MARKING SYMBOL IS USED, A PORTION OF THE SYMBOL SHOULD BE LOCATED DIRECTLY ADJACENT TO THE ADVANCE WARNING SIGN (W10-1) AS PLACED BY TABLE II-1, CONDITION B OF THE MUTCD.

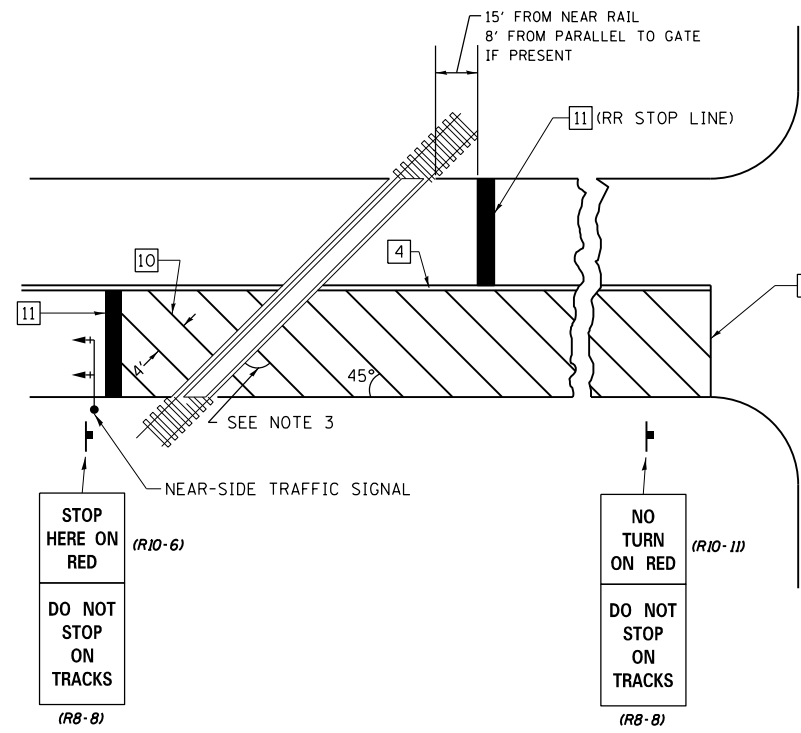
PAVEMENT MARKING LEGEND



RAILROAD CROSSING WITH INTERCONNECT ONLY



RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS



GENERAL NOTES

- SUPPLEMENTAL PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
- EXTEND PAVEMENT MARKINGS TO THE INTERSECTION ONLY WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED.
- WHERE THE ANGLE BETWEEN THE DIAGONAL PAVEMENT MARKINGS AND THE TRACK WOULD BE LESS THAN 20°, THE PAVEMENT MARKINGS SHOULD BE PLACED IN THE OPPOSITE DIRECTION FROM THAT SHOWN.

SUPPLEMENTAL PAVEMENT MARKING TREATMENT FOR RAILROAD-HIGHWAY GRADE CROSSING

NOT TO SCALE

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 7 DETAIL NO. 7800001

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS (RURAL & URBAN APPLICATIONS)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwork\pwork\stevfemk\d0263618\0784977-sh1-details.dgn		DRAWN -	REVISED -			332	(16,17,18)RS-2	LAWRENCE	40	40
PLOT SCALE = 100.0000' / 1" =		CHECKED -	REVISED -			CONTRACT NO. 94977				
PLOT DATE = 10/15/2012		DATE -	REVISED -			ILLINOIS FED. AID PROJECT				

SCALE: NA SHEET NO. 4 OF 4 SHEETS STA. TO STA.