

04-27-12 LETTING ITEM 111

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

F.A.P. ROUTE 828 (MONTROSE BLCKTP)
SECTION 12 RS-1
PROJECT ACF-0828(022)
RESURFACING (3P)
EFFINGHAM COUNTY

C-97-043-12

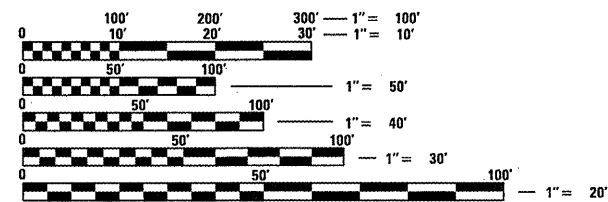
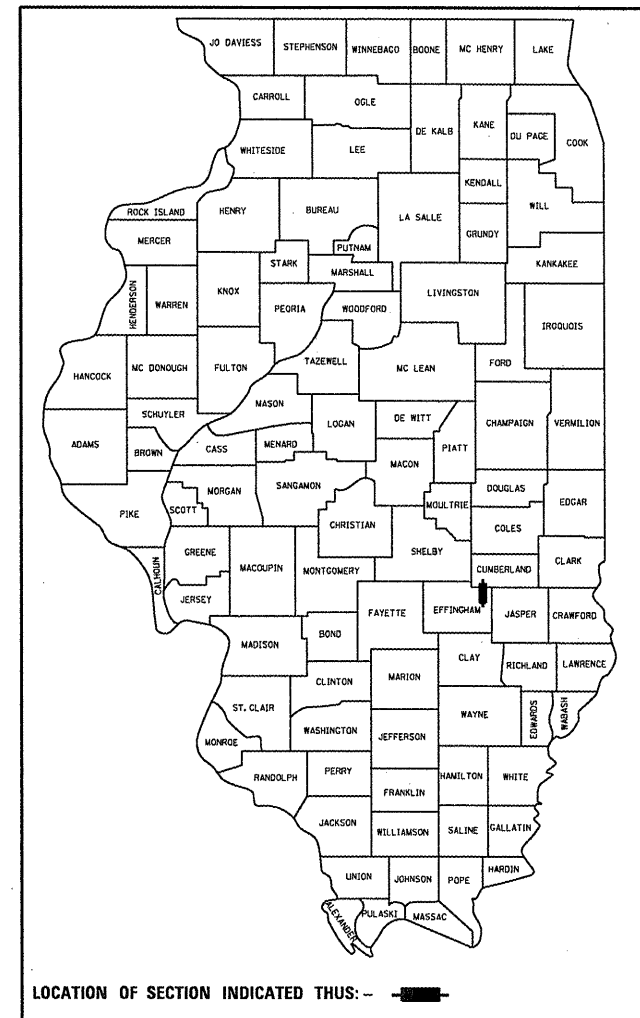
R 7 E

FOR INDEX OF SHEETS, SEE SHEET NO. 2

ADT = 2975 (2008)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
828	12 RS-1	EFFINGHAM	37	1
		ILLINOIS	CONTRACT NO. 74566	

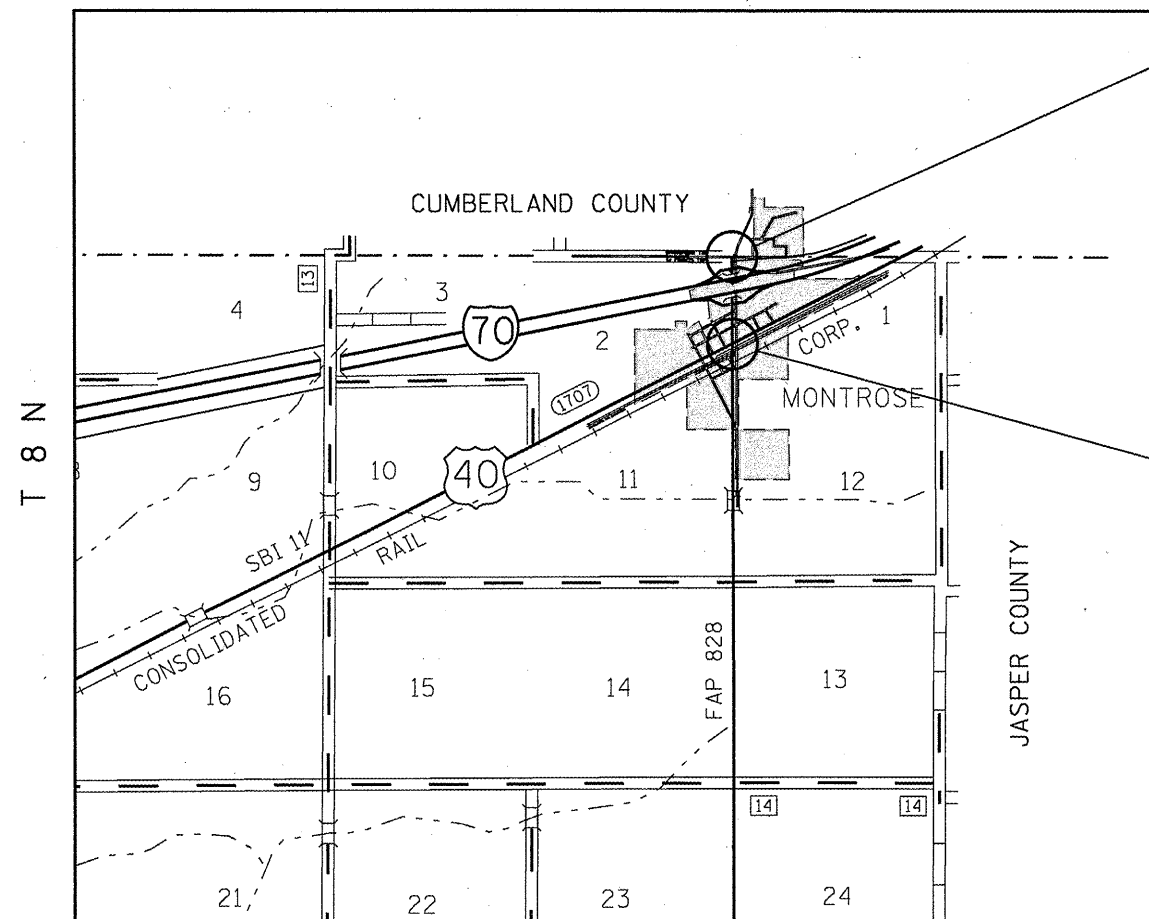
D-97-028-12



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: ROSS BIERMAN
PHONE: (217)-342-8320
CONTRACT NO. 74566



FAP ROUTE 828
SECTION 12 RS-1
EFFINGHAM COUNTY
BEGINS STA. 486+13

FAP ROUTE 828
SECTION 12 RS-1
EFFINGHAM COUNTY
ENDS STA. 507+25

GROSS LENGTH = 2112 FT. = 0.4 MILE
NET LENGTH = 2112 FT. = 0.4 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Jan 27 20 12
John D. Baranzelli, P.E.
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

March 23 20 12
John D. Baranzelli, P.E.
acting ENGINEER OF DESIGN AND ENVIRONMENT

March 23 20 12
William R. Fleyler
acting DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS

INDEX OF SHEETS

<u>SHEET NO.</u>	<u>ITEM</u>
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17	TIE POINTS
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25	GUARDRAIL DETAILS
26	SURVEY MARKER VAULT DETAIL
27-30	PAVEMENT MARKING DETAIL
31-37	CROSS SECTIONS

THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDED AFTER SHEET NO. 37:

<u>STD. NO.</u>	<u>DESCRIPTION</u>
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
406201-01	MAILBOX TURNOUT
442201-03	CLASS C AND D PATCHES
482011-03	HMA SHLD. STRIPS/SHLDS. WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
601001-04	SUB-SURFACE DRAINS
601101-01	CONCRETE HEADWALL FOR PIPE DRAIN
602301-03	INLET-TYPE A
602401-03	MANHOLE-TYPE A
604036-02	GRATE TYPE 8
604051-03	FRAME AND GRATE TYPE 11
606001-04	CONCRETE CURB TYPE B & COMBINATION CONCRETE CURB & GUTTER
606101-04	TYPE A GUTTER (INLET, OUTLET & ENTRANCE)
630001-10	STEEL PLATE BEAM GUARDRAIL
630301-05	SHOULDER WIDENING FOR TYPE 1 GUARDRAIL TERMINALS
631033-04	TRAFFIC BARRIER TERMINAL, TYPE 6B
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNT DETAILS
667101-02	PERMANENT SURVEY MARKERS
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-03	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701011-02	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS >= 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-03	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS >= 45 MPH
701311-03	LANE CLOSURE 2L, 2W, MOVING OPERATIONS - DAY ONLY
701801-05	LANE CLOSURE, MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
701901-02	TRAFFIC CONTROL DEVICES
780001-03	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATION RAISED REFLECTIVE PAVEMENT MARKERS

701324-04

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS AND STANDARDS IN THE PLANS	F.A.P. RTE. 828	SECTION I2RS-1	COUNTY Effingham	TOTAL SHEETS 37	SHEET NO. 2
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PLOT SCALE = 100.0000' / 1" =		CHECKED -	REVISED -							
PLOT DATE = 1/27/2012		DATE -	REVISED -		SCALE: NA	SHEET 1	OF 1	SHEETS	STA.	TO STA.
										ILLINOIS FED. AID PROJECT CONTRACT NO. 74566

GENERAL NOTES

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

THIS PROJECT IS LOCATED ON FAP ROUTE 828 (MONTROSE BLACKTOP) IN EFFINGHAM COUNTY, FROM THE CUMBERLAND COUNTY LINE EXTENDING SOUTH FOR 0.42 MILES TO US ROUTE 40 IN MONTROSE. THE WORK INCLUDED IN SECTION 12RS-1 CONSISTS OF PAVEMENT PATCHING, MILLING, HOT-MIX ASPHALT RESURFACING, GUARDRAIL REPLACEMENT, CURB AND GUTTER REPAIRS, PCC SIDEWALK, EARTHWORK, AGGREGATE SHOULDERS, PAVEMENT MARKING, AND ANY OTHER WORK NECESSARY TO COMPLETE THE SECTION.

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 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 THE MILLED SURFACE.

THE TOTAL QUANTITY OF THERMOPLASTIC PAVEMENT MARKING-LINE 4" CONSISTS OF 3,436 FEET OF WHITE AND 528 FEET OF YELLOW.

THE TOTAL QUANTITY OF THERMOPLASTIC PAVEMENT MARKING-LINE 24" CONSISTS OF 20 FEET OF WHITE.

THE TOTAL QUANTITY OF RAISED REFLECTIVE PAVEMENT MARKERS CONSISTS OF 26 TWO-WAY AMBER MARKERS.

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

THE PAVEMENT AREA BENEATH STRUCTURES 025-0016 AND 025-0017 HAS POOR DRAINAGE. ESTIMATED QUANTITIES OF REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL AND AGGREGATE SUBGRADE IMPROVEMENT HAVE BEEN INCLUDED TO UNDERCUT ANY POOR SUBGRADE ENCOUNTERED BENEATH PATCHES AND AREAS OF AND CURB & GUTTER REMOVAL. REMOVAL OF THE AGGREGATE PLACED ADJACENT TO THE GUTTER FLAG BENEATH THE BRIDGES WILL BE PAID FOR AS REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL. THE PAY ITEM COMBINATION CURB AND GUTTER REMOVAL HAS BEEN INCLUDED TO REMOVE ANY DAMAGED/DETERIORATED COMBINATION CURB AND GUTTER. THE QUANTITY OF COMBINATION CURB AND GUTTER REMOVAL SHOWN ON THE PLANS IS AN ESTIMATE ONLY AND THE FINAL LOCATIONS AND QUANTITY SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE EXISTING PAVEMENT SHALL BE PATCHED IN ACCORDANCE WITH SECTION 442 OF THE STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS. THE QUANTITY OF PATCHING SHOWN ON THE PLANS IS AN ESTIMATE ONLY AND THE FINAL LOCATIONS AND QUANTITY SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

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 COST SHALL INCLUDE BOTH THE INSTALLATION AND THE REMOVAL OF THE TEMPORARY RAMPS.

THE RESIDENT ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE CURING TIME FOR THE VARIOUS HOT-MIX ASPHALT PAY ITEMS.

VIBRATORY ROLLERS IN DYNAMIC MODE WILL NOT BE PERMITTED SOUTH OF THE EASTBOUND INTERCHANGE RAMPS. DENSITY REQUIREMENTS MUST STILL BE MET.

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

A UNIFORMLY STRAIGHT SAW CUT SHALL BE MADE AT LOCATIONS WHERE PROPOSED NEW CONSTRUCTION WILL ABUT EXISTING HOT-MIX ASPHALT SURFACES. THE SAW CUT SHALL BE MADE FULL DEPTH THROUGH THE EXISTING SURFACE. THIS WORK WILL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT ITEMS INVOLVED AND NO EXTRA COMPENSATION WILL BE ALLOWED.

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

MIXTURE USE: SURFACE COURSE (1 1/2") AND INCIDENTAL SURFACING (1 1/2")
 APPLICATION: POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D" N90
 PG GRADE: SBS PG 70-22
 DESIGN AIR VOIDS: 4.0% @ NDESIGN = 90
 MIXTURE COMPOSITION: IL-9.5
 FRICTION AGGREGATE: MIXTURE D

MIXTURE USE: PAVEMENT PATCHING
 APPLICATION: HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90
 PG GRADE: PG 64-22
 DESIGN AIR VOIDS: 4.0% @ NDESIGN = 90
 MIXTURE COMPOSITION: IL-19.0
 FRICTION AGGREGATE: N/A

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

AGGREGATE SURFACE COURSE	2.05 TONS/CU YD
AGGREGATE SHOULDERS	2.05 TONS/CU YD
BITUMINOUS MATERIALS (PRIME COAT)	0.10 GAL/SO YD
AGGREGATE (PRIME COAT)	4 LBS/SO YD
HOT-MIX ASPHALT	112 LBS/SO YD/INCH

FILE NAME =	USER NAME = steffennk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -			CONTRACT NO. 74566					
	PLOT DATE = 1/27/2012	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
				SCALE: NA		SHEET 1 OF 1 SHEETS		STA.		TO STA.	

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	67	67		
20400800	FURNISHED EXCAVATION	CU YD	210	210		
20800150	TRENCH BACKFILL	CU YD	16	16		
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	30	30		
28100105	STONE RIPRAP, CLASS A3	SO YD	28	28		
28200200	FILTER FABRIC	SQ YD	28	28		
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	94	94		
31101100	SUBBASE GRANULAR MATERIAL, TYPE B	CU YD	67	67		
35400300	PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 8"	SO YD	184	184		
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	608	608		
40600300	AGGREGATE (PRIME COAT)	TON	24	24		
40600895	CONSTRUCTING TEST STRIP	EACH	1	1		
40600990	TEMPORARY RAMP	SO YD	64	64		
40603545	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90	TON	532	532		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		80% FED. 20% STATE 0005		
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	8	8		
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SO FT	1366	1366		
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SO YD	6085	6085		
44000400	GUTTER REMOVAL	FOOT	35	35		
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	355	355		
44000600	SIDEWALK REMOVAL	SO FT	1366	1366		
44004250	PAVED SHOULDER REMOVAL	SO YD	74	74		
44201785	CLASS D PATCHES, TYPE I, 12 INCH	SO YD	107	107		
44201789	CLASS D PATCHES, TYPE II, 12 INCH	SO YD	238	238		
44201794	CLASS D PATCHES, TYPE III, 12 INCH	SO YD	18	18		
48101200	AGGREGATE SHOULDERS, TYPE B	TON	37	37		
50104400	CONCRETE HEADWALL REMOVAL	EACH	1	1		
50300225	CONCRETE STRUCTURES	CU YD	6.1	6.1		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	610	610		

FILE NAME =	USER NAME = steffennk	DESIGNED -	REVISED -
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		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NA SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
828	12RS-1	Effingham	37	4
CONTRACT NO. 74566			ILLINOIS FED. AID PROJECT	

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		80% FED 20% STATE 0005		
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	2	2		
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	1	1		
550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	68	68		
550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	FOOT	40	40		
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	1	1		
60107700	PIPE UNDERDRAINS 6"	FOOT	284	284		
60219000	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	1	1		
60236800	INLETS, TYPE A, TYPE 11 FRAME AND GRATE	EACH	2	2		
60263900	INLETS TO BE RECONSTRUCTED WITH NEW TYPE 11 FRAME AND GRATE	EACH	1	1		
60602500	CONCRETE GUTTER, TYPE A	FOOT	19	19		
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	355	355		
63100089	TRAFFIC BARRIER TERMINAL, TYPE 6B	EACH	4	4		

SUMMARY OF QUANTITIES			TOTAL	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		80% FED 20% STATE 0005		
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4		
63200310	GUARDRAIL REMOVAL	FOOT	339	339		
66700205	PERMANENT SURVEY MARKERS, TYPE I	EACH	4	4		
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	2	2		
67100100	MOBILIZATION	L SUM	1	1		
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1		
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1		
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1		
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1		
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	8	8		
70300100	SHORT TERM PAVEMENT MARKING	FOOT	422	422		
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	70	70		
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	3964	3964		

24 * SPECIALTY ITEM

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

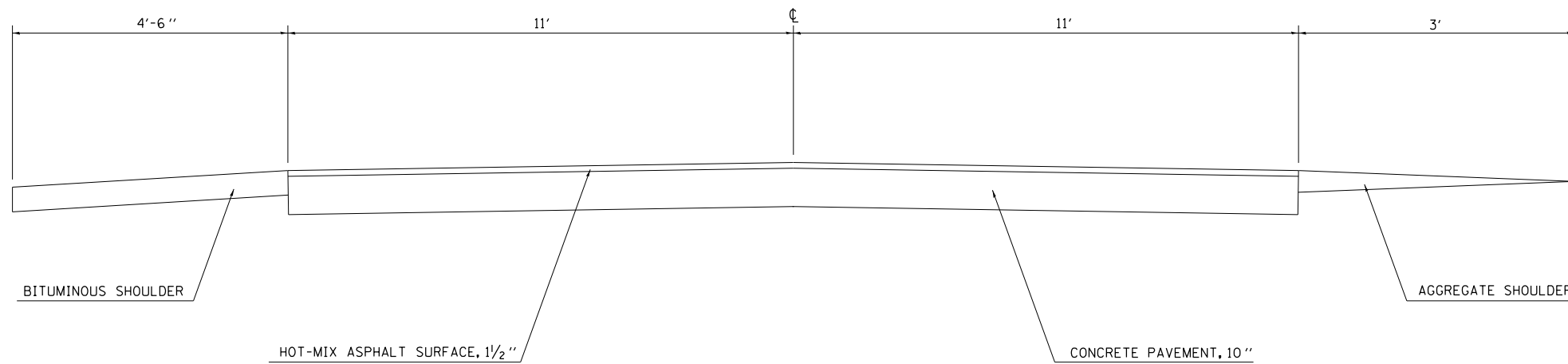
SUMMARY OF QUANTITIES

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
828	12RS-1	Effingham	37	5
CONTRACT NO. 74566				
ILLINOIS FED. AID PROJECT				

① EXISTING TYPICAL CROSS SECTION

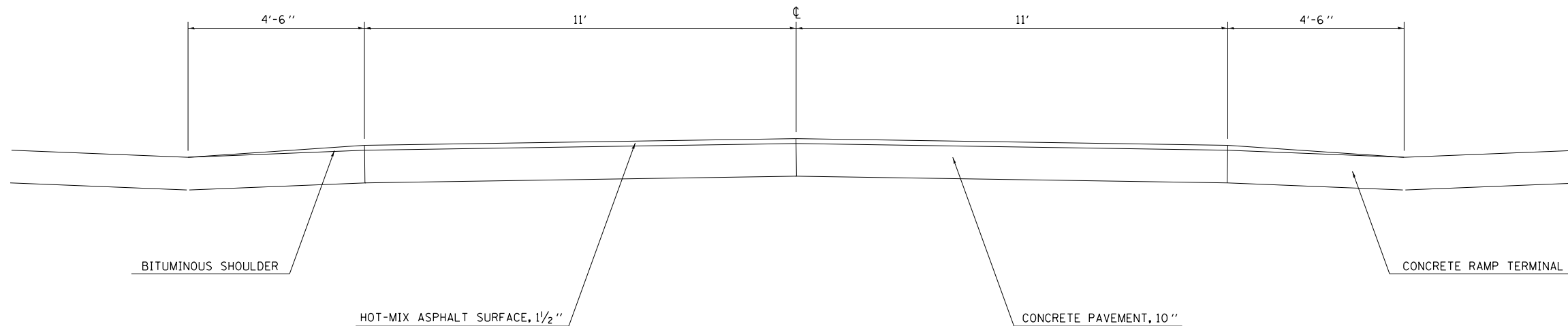
STATION 486+13 TO STATION 488+47



NOTE: NOT TO SCALE

② EXISTING TYPICAL CROSS SECTION

STATION 488+47 TO STATION 490+16
STATION 494+96 TO STATION 498+68

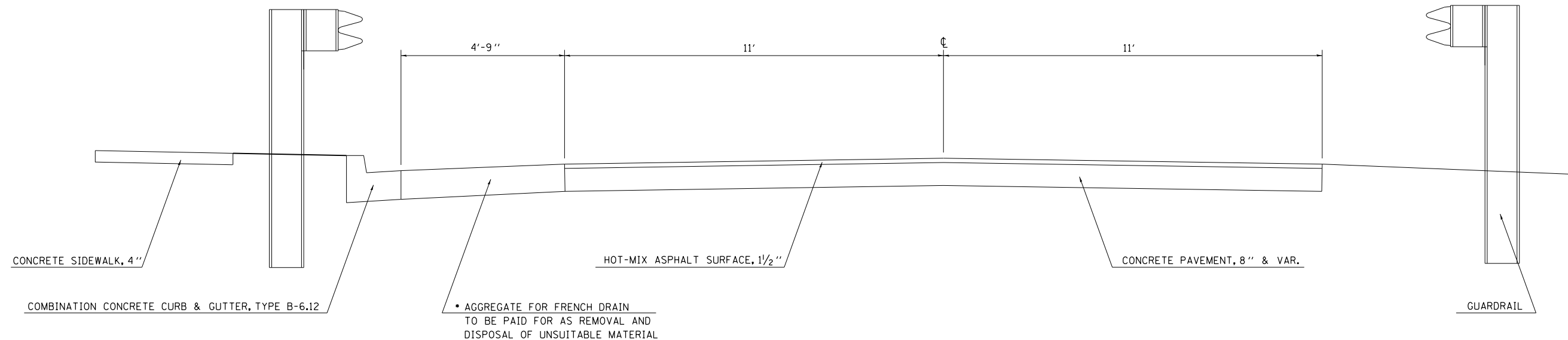


NOTE: NOT TO SCALE

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PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED -	SCALE: NA			CONTRACT NO. 74566						
PLOT DATE = 1/27/2012	DATE -	REVISED -	SHEET 1 OF 6 SHEETS			STA. TO STA.						
ILLINOIS FED. AID PROJECT												

③ EXISTING TYPICAL CROSS SECTION

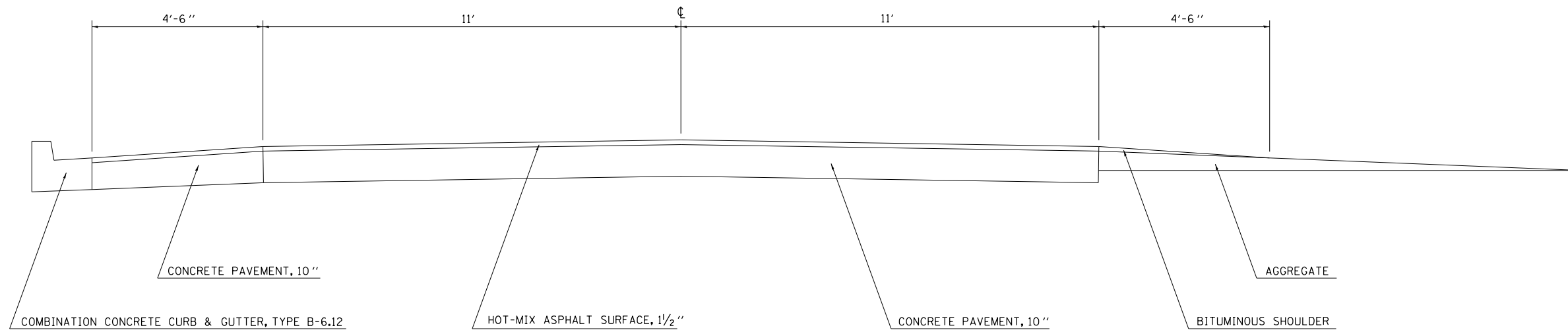
STATION 490+16 TO STATION 494+96



NOTE: NOT TO SCALE

④ EXISTING TYPICAL CROSS SECTION

STATION 498+68 TO STATION 501+32

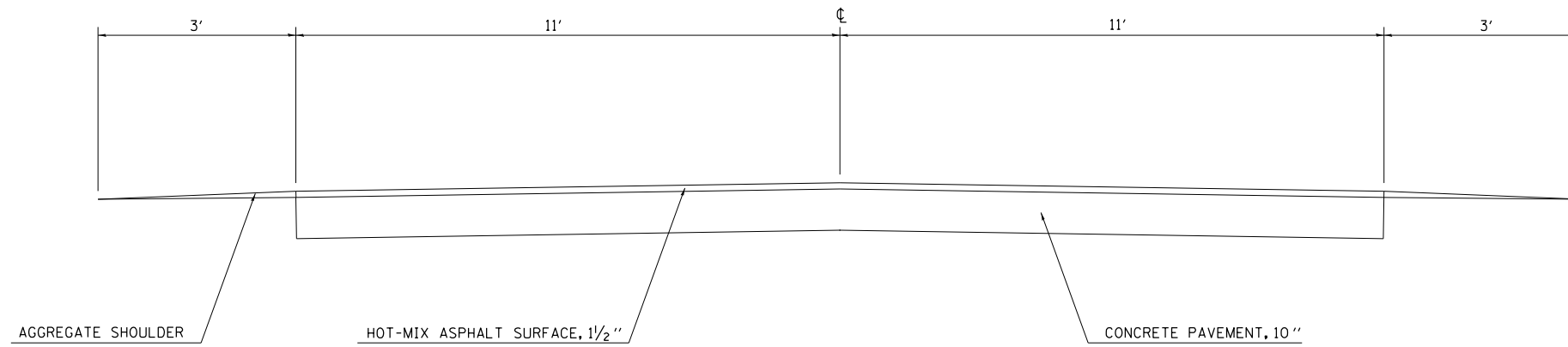


NOTE: NOT TO SCALE

FILE NAME =	USER NAME = steffernk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING TYPICAL CROSS SECTION			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
ci:\pw\work\p\dot\steffernk\d0289124\074566-sh-typicals.dgn		DRAWN -	REVISED -		SCALE: NA	SHEET 2	OF 6	SHEETS	STA.	TO STA.	828	12RS-1	Effingham	37	8
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -								CONTRACT NO. 74566				
	PLOT DATE = 1/27/2012	DATE -	REVISED -								ILLINOIS FED. AID PROJECT				

⑤ EXISTING TYPICAL CROSS SECTION

STATION 501+32 TO STATION 507+25

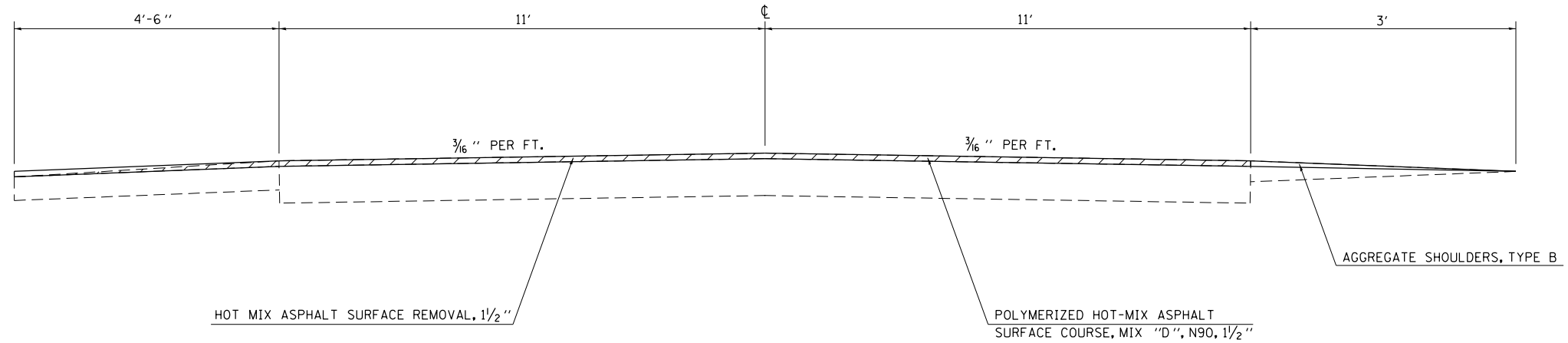


NOTE: NOT TO SCALE

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c:\pwork\pwork\steffenmk\d0289124\074566-sh-typical1.dgn		DRAWN -	REVISED -					828	12RS-1	Effingham	37	9
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	PLOT DATE = 1/27/2012	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

① PROPOSED TYPICAL CROSS SECTION

STATION 486+13 TO STATION 488+47

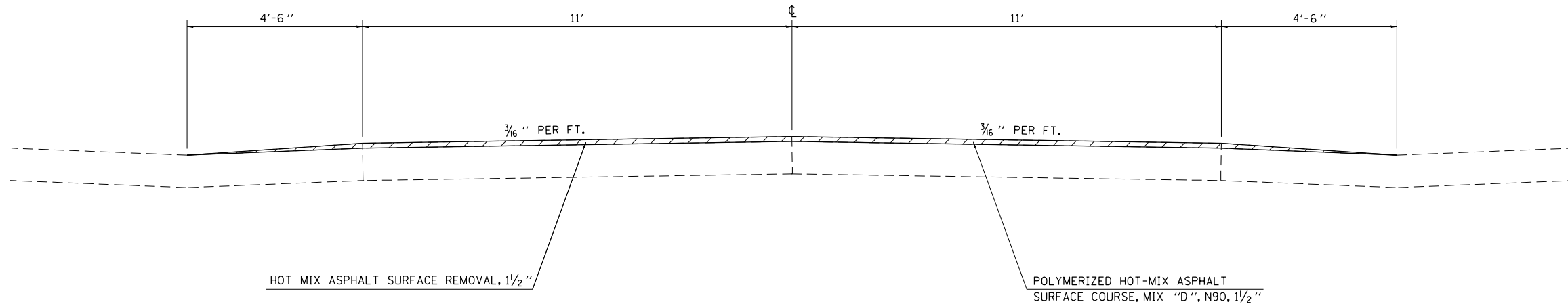


HOT MIX ASPHALT SURFACE REMOVAL, 1/2"

NOTE: NOT TO SCALE

② PROPOSED TYPICAL CROSS SECTION

STATION 488+47 TO STATION 490+16
STATION 494+96 TO STATION 498+68



HOT MIX ASPHALT SURFACE REMOVAL, 1/2"

NOTE: NOT TO SCALE

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PLOT SCALE = 100.0000' / in.		CHECKED -	REVISED -
PLOT DATE = 1/27/2012		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

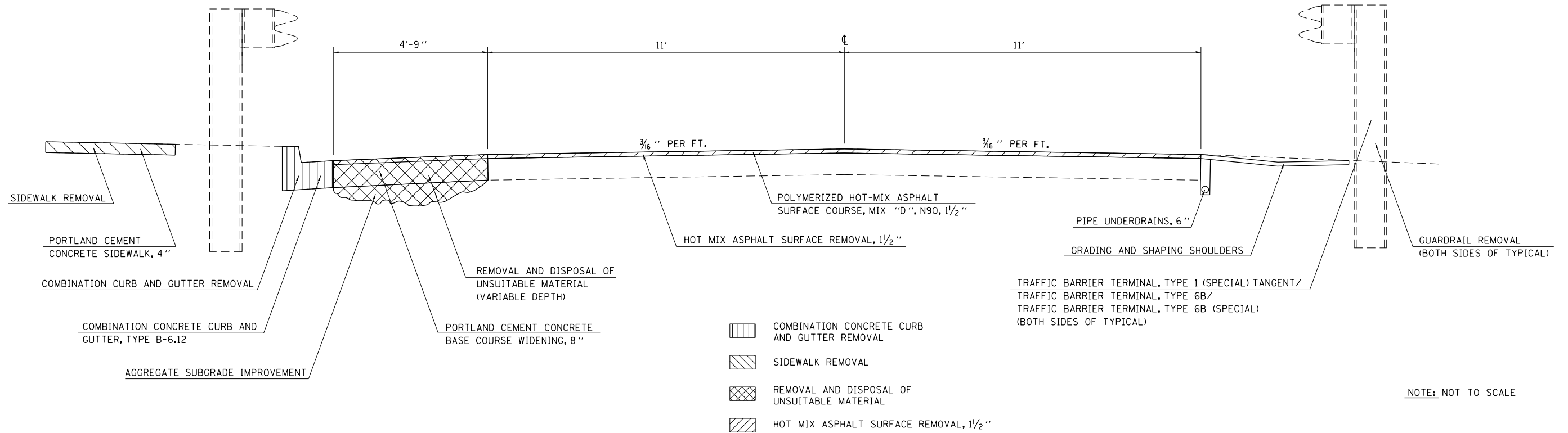
PROPOSED TYPICAL CROSS SECTION

SCALE: NA SHEET 4 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
828	12RS-1	Effingham	37	10
CONTRACT NO. 74566			ILLINOIS FED. AID PROJECT	

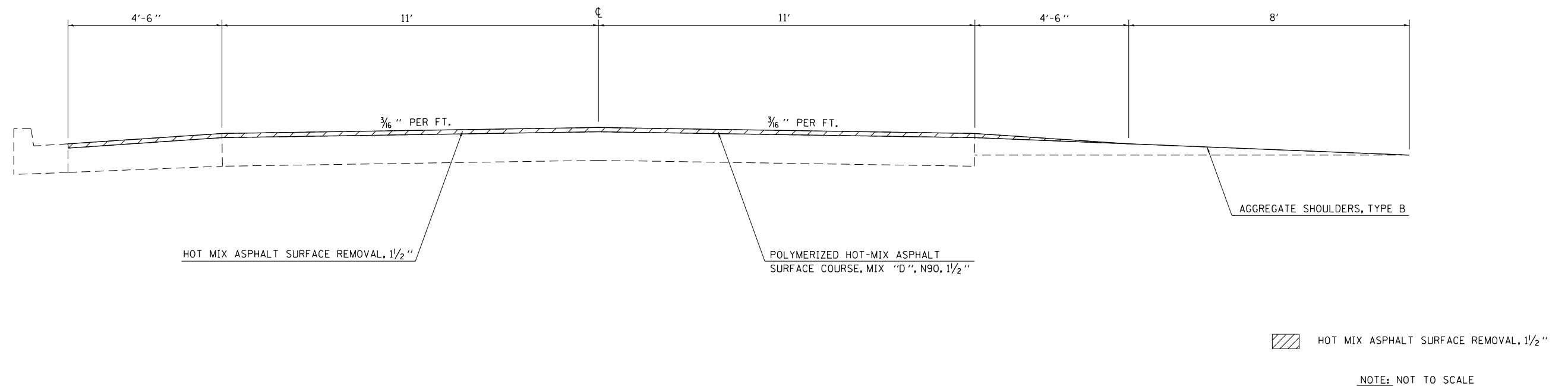
③ PROPOSED TYPICAL CROSS SECTION

STATION 490+16 TO STATION 494+96



④ PROPOSED TYPICAL CROSS SECTION

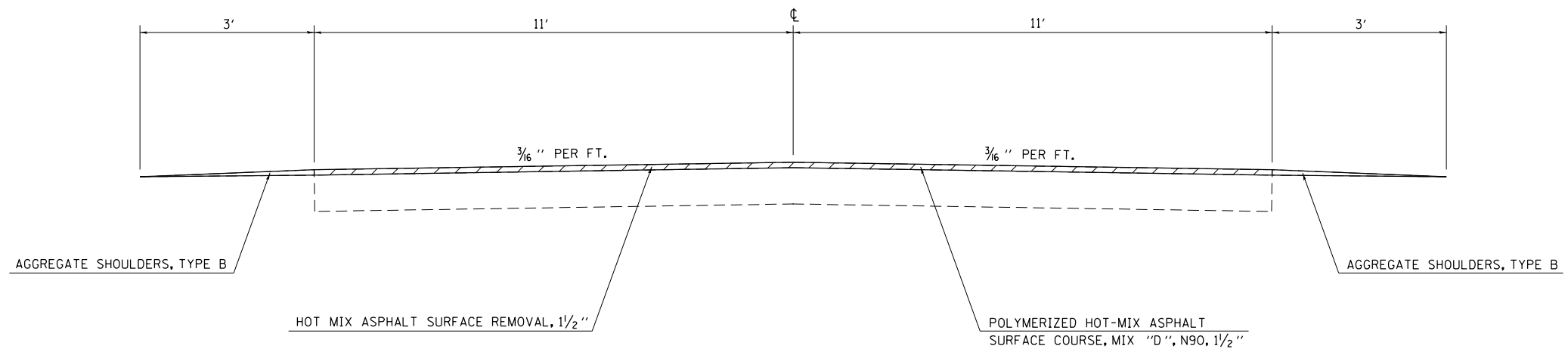
STATION 498+68 TO STATION 501+32



FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED TYPICAL CROSS SECTION			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ci:\pw\work\p\dot\steffenmk\d0289124\074566-sh-typicals.dgn		DRAWN -	REVISED -		828	12RS-1	Effingham	37	11			
PLOT SCALE = 100.0000' / in.		CHECKED -	REVISED -		CONTRACT NO. 74566							
PLOT DATE = 1/27/2012		DATE -	REVISED -		SCALE: NA	SHEET 5 OF 6 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT				

⑤ PROPOSED TYPICAL CROSS SECTION

STATION 501+32 TO STATION 507+25



 HOT MIX ASPHALT SURFACE REMOVAL, 1 1/2"

NOTE: NOT TO SCALE

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED TYPICAL CROSS SECTION			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwork\pwork\steffenmk\d0289124\074566-sh-typical.dgn	DRAWN -	REVISED -	REVISED -					828	12RS-1	Effingham	37	12
PLOT SCALE = 100.0000' / 1"	CHECKED -	REVISED -	REVISED -		SCALE: NA SHEET 6 OF 6 SHEETS STA. TO STA.			CONTRACT NO. 74566				
PLOT DATE = 1/27/2012	DATE -	REVISED -	REVISED -		ILLINOIS FED. AID PROJECT							

PAVING SCHEDULE

F. A. P. RT. 828			LENGTH	PAVEMENT WIDTH	AREA	AGGREGATE SHOULDERS, TYPE B	BITUMINOUS MATERIALS (PRIME COAT)	AGGREGATE (PRIME COAT)	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90
STATION	TO	STATION	FEET	FEET	SQ YD	TON	GALLON	TON	SQ. YD.	TON
486+13.00	TO	488+47.00	234.0	22.0	572.0	3.3	68.9	1.4	689.0	57.9
488+47.00	TO	490+16.00	169.0	22.0	413.1	0.0	58.2	1.7	582.1	48.9
490+16.00	TO	494+96.00	480.0	22.0	1,173.3	6.8	117.3	4.1	1173.3	119.8
494+96.00	TO	498+68.00	372.0	22.0	909.3	0.0	128.1	5.1	1281.3	107.6
498+68.00	TO	501+32.00	264.0	22.0	645.3	10.0	90.9	4.1	909.3	76.4
501+32.00	TO	507+25.00	593.0	22.0	1,449.6	16.9	145.0	7.2	1449.6	121.8
TOTALS			1,255		5,163	37	608	24	6,085	532

PAVEMENT MARKING SCHEDULE

F. A. P. RT. 828			LENGTH	SHORT TERM PAVEMENT MARKINGS	WORK ZONE PAVEMENT MARKING REMOVAL	THERMOPLASTIC PAVEMENT MARKING-LINE 4"	RAISED REFLECTIVE PAVEMENT MARKERS	THERMOPLASTIC PAVEMENT MARKING - LINE 24"
STATION	TO	STATION	FOOT	FOOT	SO FT	FOOT	EACH	FOOT
486+13.00	TO	488+47.00	234.0	46.8	7.8	459.5	2.9	
488+47.00	TO	490+16.00	169.0	33.8	5.6	114.3	2.1	60.0
490+16.00	TO	494+96.00	480.0	96.0	16.0	1,080.0	6.0	60.0
494+96.00	TO	498+68.00	372.0	74.4	12.4	560.0	4.7	
498+68.00	TO	501+32.00	264.0	52.8	8.8	534.0	3.3	
501+32.00	TO	507+25.00	593.0	118.6	19.8	1,216.3	7.4	20.0
SHEET TOTALS			2,112	422	70	3,964	26	140

COMBINATION CURB AND GUTTER REMOVAL

LOCATION	QUANTITY (FT)	DESC.
F. A. P. RT. 828		
490+97.00 TO 494+50.20 LT.	355.0	B6.12
PROJECT TOTAL		355.0

PORTLAND CEMENT CONCRETE SIDEWALK 4"

LOCATION	QUANTITY (SQ. FT.)
F. A. P. RT. 828	
490+95.50 TO 491+84.70 LT.	361.0
492+24.40 TO 494+50.20 LT.	1,005.0
PROJECT TOTAL = 1,366.0	

COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12

LOCATION	QUANTITY (FT)
F. A. P. RTE. 828	
490+97.00 TO 494+50.20 LT.	355.0
PROJECT TOTAL	
355.0	

SIDEWALK REMOVAL

LOCATION	QUANTITY (SQ. FT.)
F. A. P. RT. 828	
490+95.50 TO 491+84.70 LT.	361.0
492+24.40 TO 494+50.20 LT.	1,005.0
PROJECT TOTAL	
1,366.0	

GRADING AND SHAPING SHOULDER

LOCATION	QUANTITY (UNIT)
F. A. P. RT. 828	
491+04.60 TO 493+64.90 RT.	2.6
PROJECT TOTAL	2.6

The quantity in this schedule is used for grading and shaping the shoulder from STA 491+04.6 to STA 493+64.9 RT. around the pier to drain the water to the ditch.

STORM SEWER, CLASS A, TYPE 1, 15"

LOCATION	QUANTITY (FT)
F. A. P. RT. 828	
STRUCTURE STA TO STRUCTURE STA	
491+48.8, 27.0' LT. TO 491+65.3, 26.5' LT.	12.0
491+54.8, 16.3' LT. TO 492+94.7, 16.5' LT.	40.0
494+30.8, 32.5' LT. TO 494+39.8, 16.5' LT.	16.0
PROJECT TOTAL	68.0

CONCRETE HEADWALL FOR PIPE DRAIN

LOCATION	QUANTITY
F. A. P. RT. 828	EACH
491+24.50 RT.	1.0
PROJECT TOTAL	1.0

STORM SEWER, CLASS A, TYPE 1, 18"

LOCATION	QUANTITY (FT.)
F. A. P. RT. 828	
FROM STRUCTURE STA TO TO STRUCTURE STA	
491+48.8, 27.0' LT. TO 490+86.1, 35.7' LT.	40.0
PROJECT TOTAL	40.0

PIPE UNDERDRAINS 6"

LOCATION	QUANTITY (FT)
F. A. P. RT. 828	
491+24.50 TO 493+89.80 RT.	284.0
PROJECT TOTAL	284.0

INLETS, TYPE A, TYPE 11 FRAME AND GRATE

LOCATION	QUANTITY
F. A. P. RT. 828	EACH
491+94.7 LT.	1.0
494+39.80 LT.	1.0
PROJECT TOTAL	2.0

TRENCH BACKFILL

LOCATION	QUANTITY (CU YD)
F. A. P. RT. 828	
491+54.80 TO 492+94.7 LT	12.0
494+30.80 TO 494+39.80 LT	4.0
PROJECT TOTAL	16.0

INLETS TO BE RECONSTRUCTED WITH NEW TYPE 11 FRAME & GRATE

LOCATION	QUANTITY (EA)
F. A. P. RT. 828	
491+65.3 LT.	1.0
PROJECT TOTAL	1.0

GUARDRAIL SCHEDULE

LOCATION	TRAFFIC BARRIER TERMINAL, TYPE 6B	TRAFFIC BARRIER TERMINAL, TYPE I (SPECIAL) TANGENT
F. A. P. RT. 828	EACH	EACH
LT 491+01.50 TO 491+94.70	1.0	1.0
LT 493+20.00 TO 494+13.10	1.0	1.0
RT 491+08.40 TO 492+01.50	1.0	1.0
RT 493+26.70 TO 494+19.80	1.0	1.0
PROJECT TOTAL	4.0	4.0

TEMPORARY RAMPS

LOCATION	LENGTH	WIDTH	AREA
F. A. P. RT. 828	FEET	FEET	SQ YD
486+13 BEGINNING OF PROJECT	7.5	22.0	18.3
507+25 END OF PROJECT	7.5	55.0	45.8
TOTAL =			64

PATCHING SCHEDULE

LOCATION	CLASS D PATCHES, TYPE I, 12"	CLASS D PATCHES, TYPE II, 12"	CLASS D PATCHES, TYPE III, 12"
F. A. P. RT. 828	SQ YD	SQ YD	SQ YD
	107	238	18

SEEDING SCHEDULE

F. A. P. RT. 828				SEEDING, CLASS 2 (SPECIAL)	TEMPORARY EROSION CONTROL SEEDING
STATION	TO	STATION	SIDE		
491+01.50	TO	491+94.70	LT.	0.08	15.24
492+24.40	TO	492+90.20	LT.	0.00	0.69
493+20.00	TO	494+13.10	LT.	0.02	4.75
491+08.40	TO	492+01.50	RT.	0.01	2.75
492+31.20	TO	492+96.90	RT.	0.00	0.69
493+26.70	TO	494+19.80	RT.	0.01	2.18
SHEET TOTALS				0.15	30

GUARDRAIL REMOVAL

LOCATION				QUANTITY
F. A. P. RT. 828				FOOT
LT	491+68.40	TO	491+94.70	26.0
RT	491+25.90	TO	492+01.50	76.0
LT	492+24.40	TO	492+90.20	67.0
RT	492+31.10	TO	492+96.90	67.0
LT	493+20.00	TO	493+46.10	27.0
RT	493+26.70	TO	494+02.60	76.0
PROJECT TOTAL				339.0

PERMANENT SURVEY MARKER, TYPE I

LOCATION	TYPE	QUANTITY EACH	DESCRIPTION
491+08.86	CL POT	1.0	Cut "x" w/ drill hole reset from ties
497+03.72	CL PC	1.0	
500+01.05	CL PT	1.0	
505+00.07	CL POT	1.0	
TOTAL =		4.0	

CONCRETE HEADWALL REMOVAL

LOCATION	QUANTITY EACH	DESCRIPTION
491+48.80 LT	1.0	Existing 18" Storm Sewer
TOTAL =		1.0

SURVEY MARKER SCHEDULE

LOCATION	TYPE	SURVEY MARKER VAULT EACH	PROTECTING OR RESETTING SURVEY MARKERS EACH
498+52.39	Iron Pin	1.0	1.0
490+34.21	Iron Pin	1.0	1.0
TOTAL =		2.0	2.0

TRAFFIC BARRIER TERMINAL, TYPE 6B (SPECIAL)

LOCATION				QUANTITY
F. A. P. RT. 828				EACH
LT	492+24.40	TO	492+90.20	1.0
RT	492+31.20	TO	492+96.90	1.0
PROJECT TOTAL				2.0

PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 8"

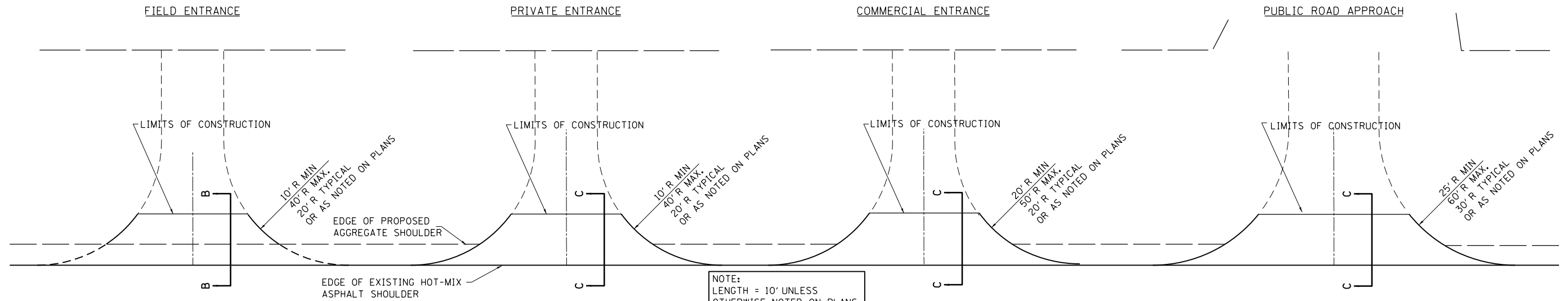
LOCATION				QUANTITY (SQ. YD.)
F. A. P. RTE. 828				
	490+97.00	TO	494+50.20 LT.	184.0
PROJECT TOTAL				184.0

GUTTER SCHEDULE

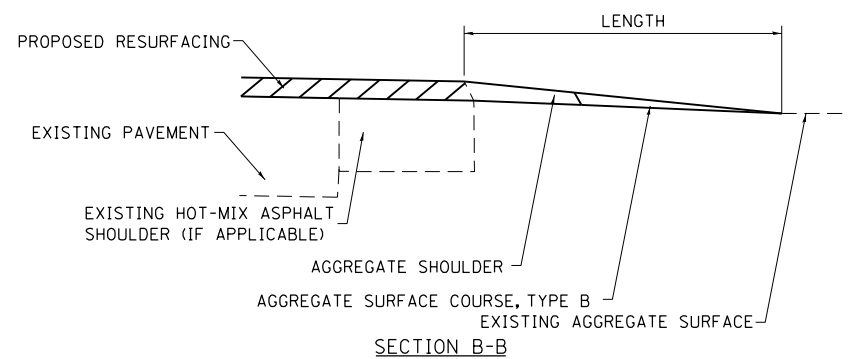
F. A. P. RT. 828				GUTTER REMOVAL	CONCRETE GUTTER, TYPE A
STATION	TO	STATION	SIDE	FOOT	FOOT
491+50.60	TO	491+84.60	LT.	35.0	
491+65.20	TO	491+84.60	LT.		19.0
SHEET TOTALS				35	19

MANHOLES, TYPE A, 4' -DIAMETER, TYPE 8 GRATE

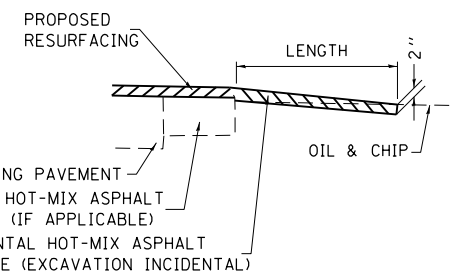
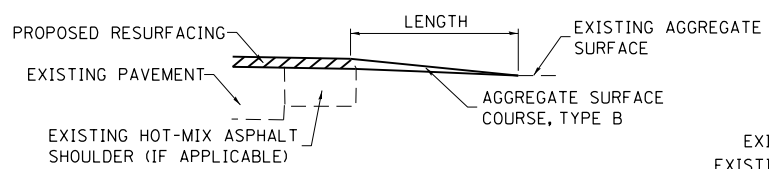
LOCATION	QUANTITY
F. A. P. RT. 828	EACH
491+48.8 LT.	1.0
PROJECT TOTAL	1.0



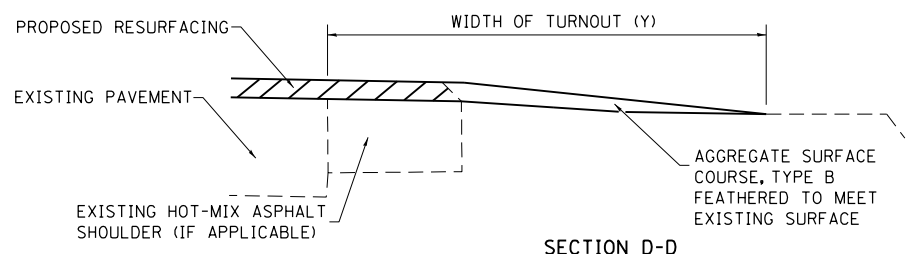
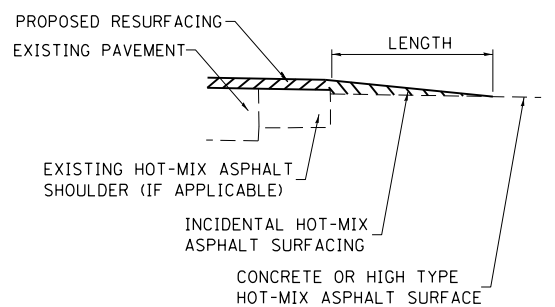
NOTE:
LENGTH = 10' UNLESS
OTHERWISE NOTED ON PLANS.



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	
			TON	TON
LT	487+72	PRA		
LT	489+20	PRA		
RT	489+36	PRA		
LT	495+89	PRA		
RT	496+04	PRA		
LT	497+16	CE		
RT	497+82	CE		
LT	498+35	CE		
RT	498+35	CE		
RT	498+90	PRA		
LT	499+61	CE		
RT	499+67	CE		
RT	500+23	CE		
RT	501+05	CE		
LT	503+22	PRA		
RT	503+38	PRA		
RT	504+65	PE	2.5	
RT	505+24	PRA		
RT	506+05	PE	5.5	
	TOTALS		8.0	

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

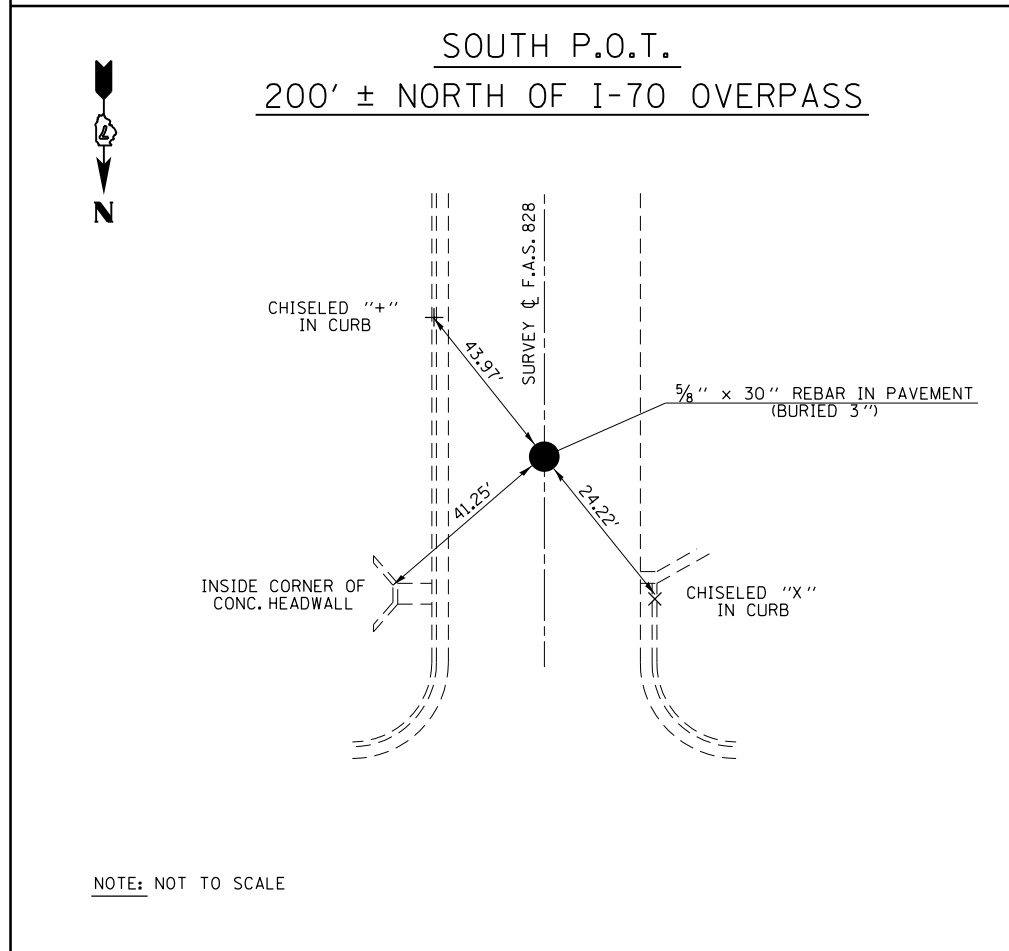
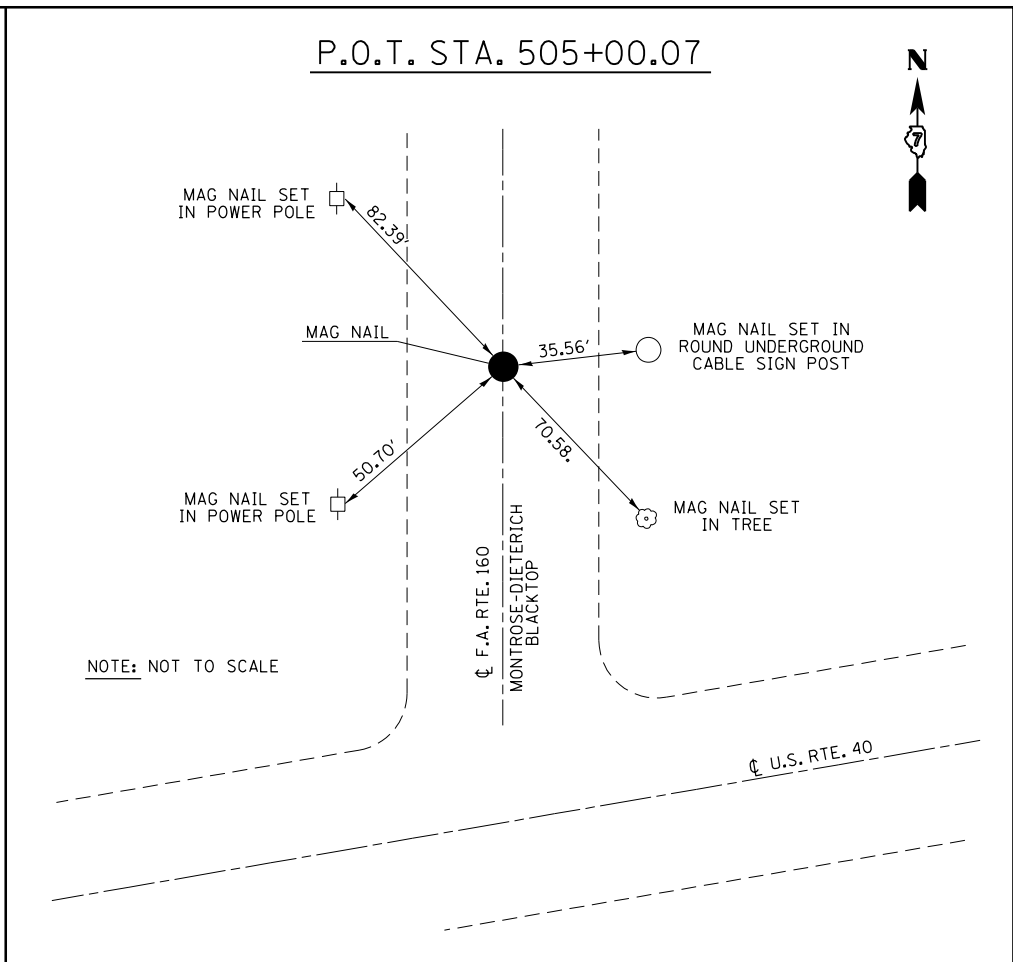
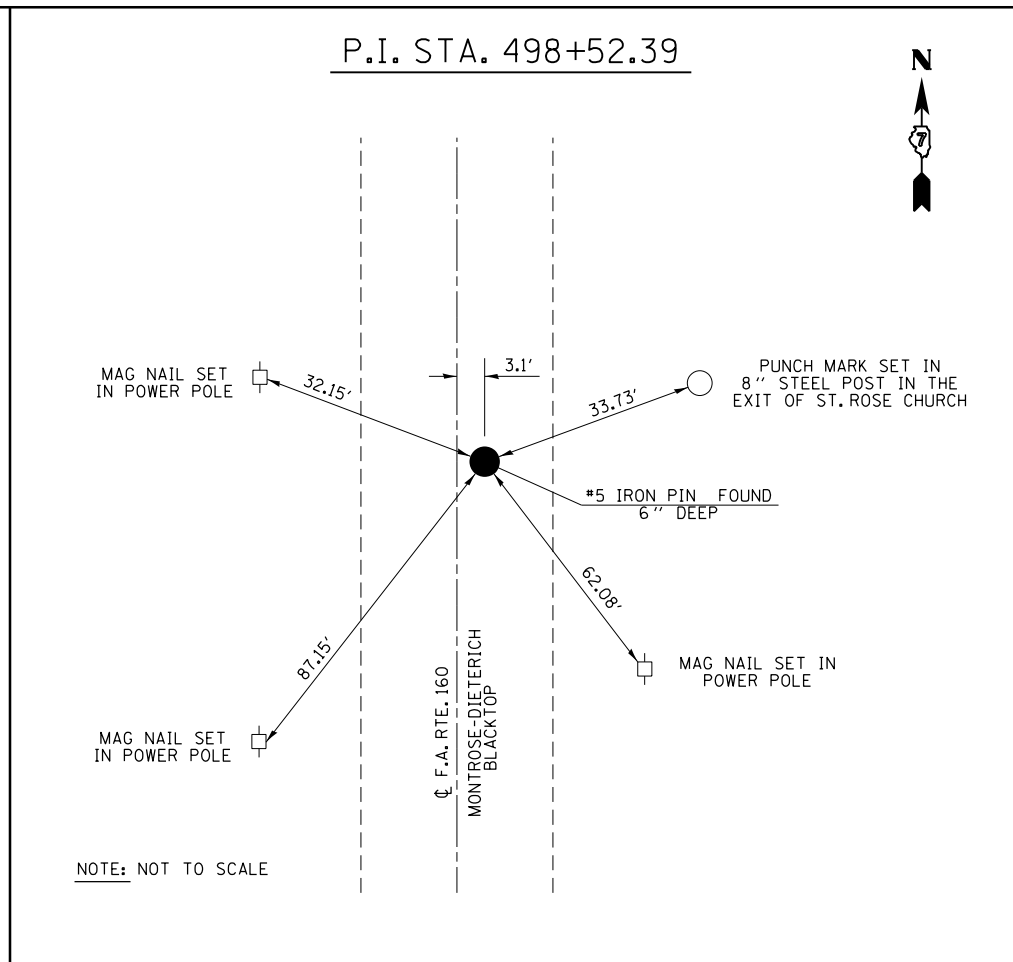
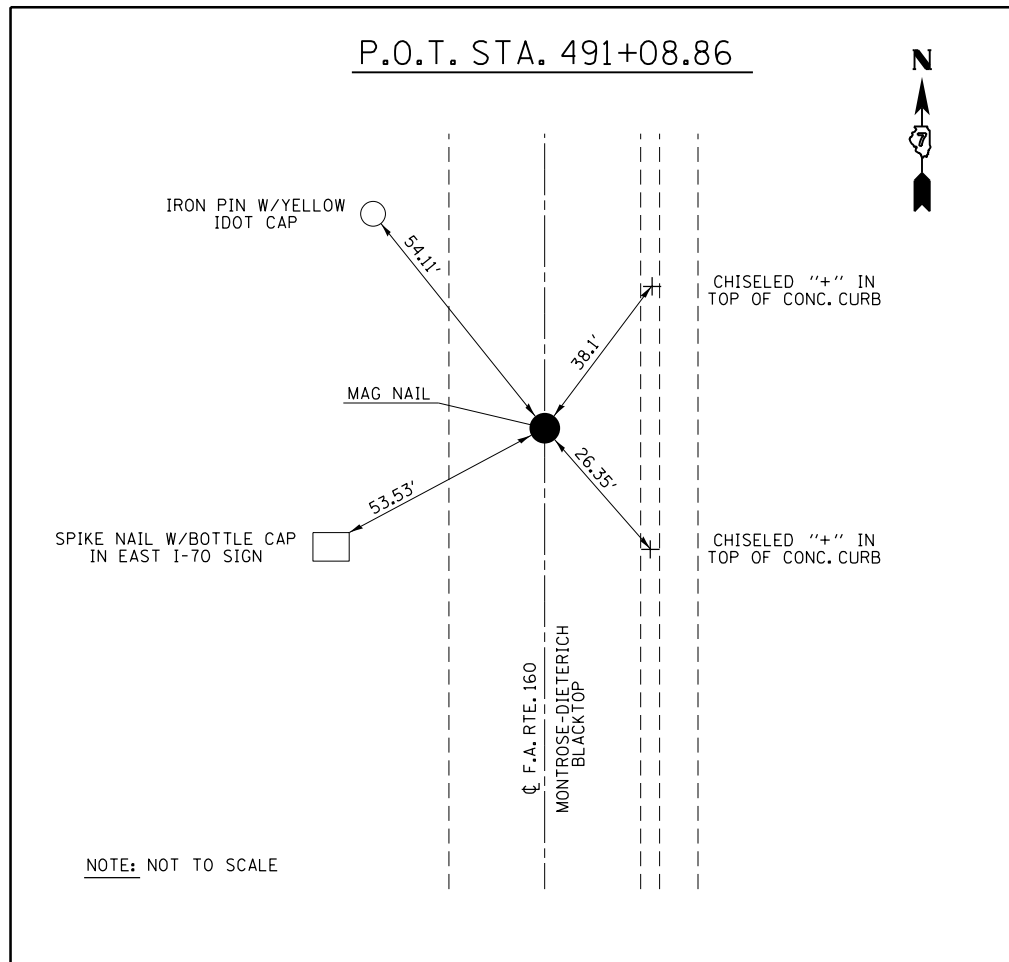
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	PLOT DATE = 1/27/2012	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RURAL ENTRANCE SCHEDULE AND MAILBOX TURNOUT DETAILS
WITH SHOULDERS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
828	12RS-1	Effingham	37	16
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
CONTRACT NO. 74566				

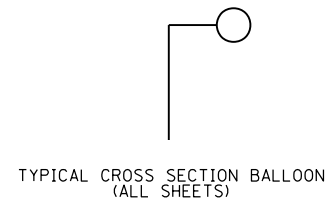
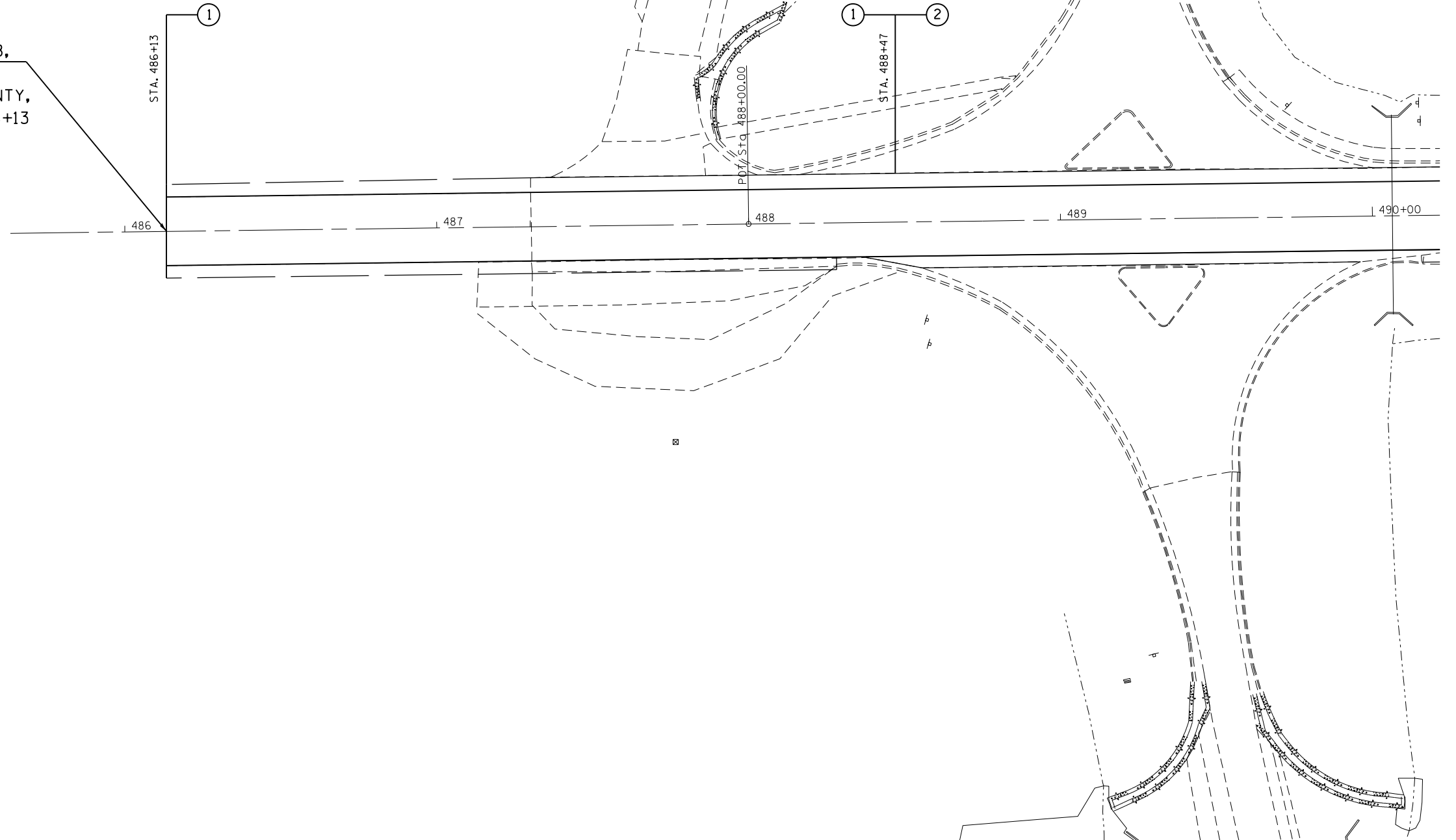


NOTE:
MAG NAILS LOCATED AT P.C. STATION 497+03.72 AND P.T. STATION 500+01.05 SHALL BE TIED DOWN BY THE RESIDENT ENGINEER PRIOR TO THE START OF ANY CONSTRUCTION AND REPLACED WITH PERMANENT SURVEY MARKER, TYPE 1

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TIE POINTS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT SCALE = 100.0000' / in.		CHECKED -	REVISED -		SCALE: NA SHEET 1 OF 1 SHEETS STA. TO STA.			CONTRACT NO. 74566				
PLOT DATE = 1/27/2012		DATE -	REVISED -		ILLINOIS FED. AID PROJECT							



F.A.P. ROUTE 828,
SECTION 12RS-1,
EFFINGHAM COUNTY,
BEGINS STA. 486+13



FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
ct:\pw\work\p\dot\stef\enmk\d0289124\074566-sh-t-plan.dgn		DRAWN -	REVISED -
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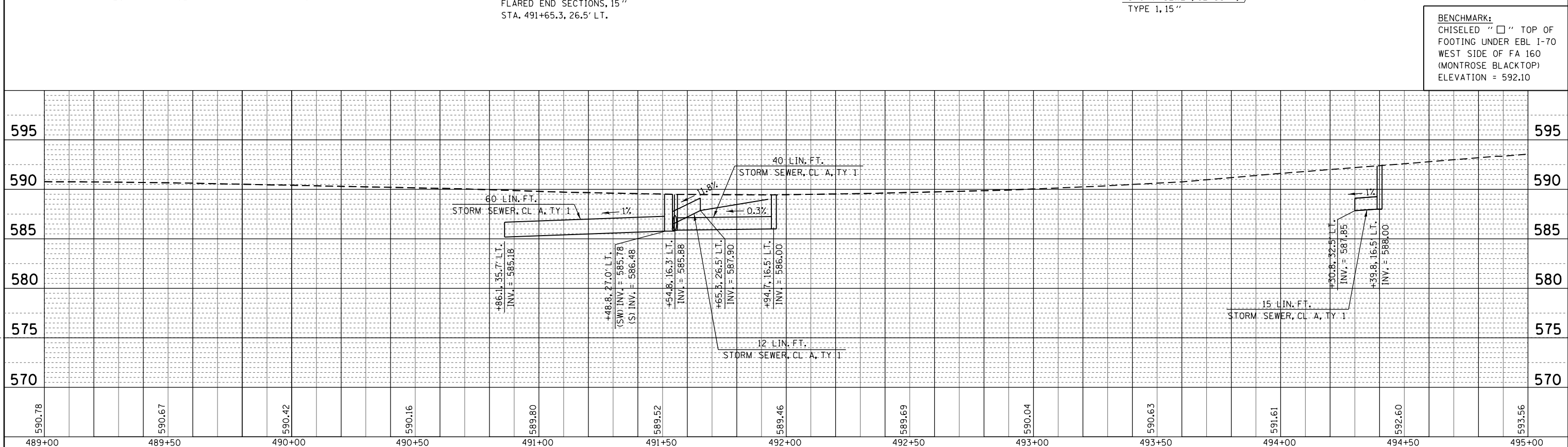
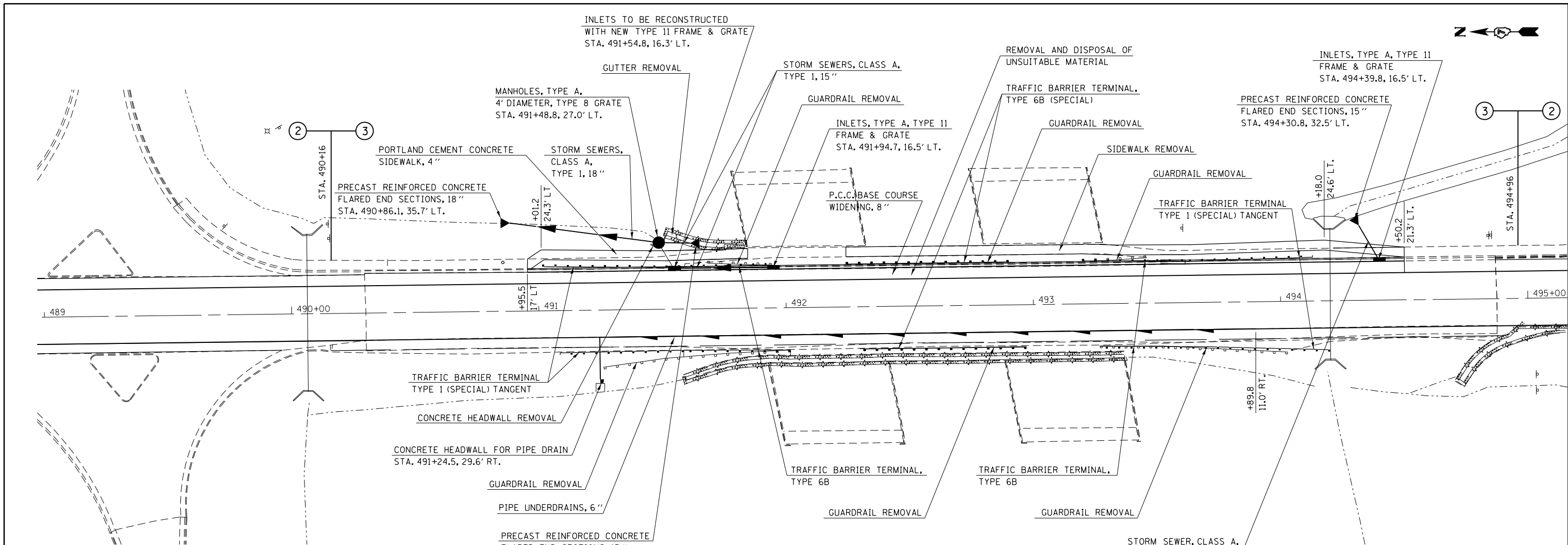
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN			
SCALE: 20	SHEET 1	OF 5 SHEETS	STA. 486+13 TO STA. 490+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
828	12RS-1	Effingham	37	18
CONTRACT NO. 74566			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	FILE NAME	
NOTE BOOK NO.		

PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	FILE NAME	
NOTE BOOK NO.		

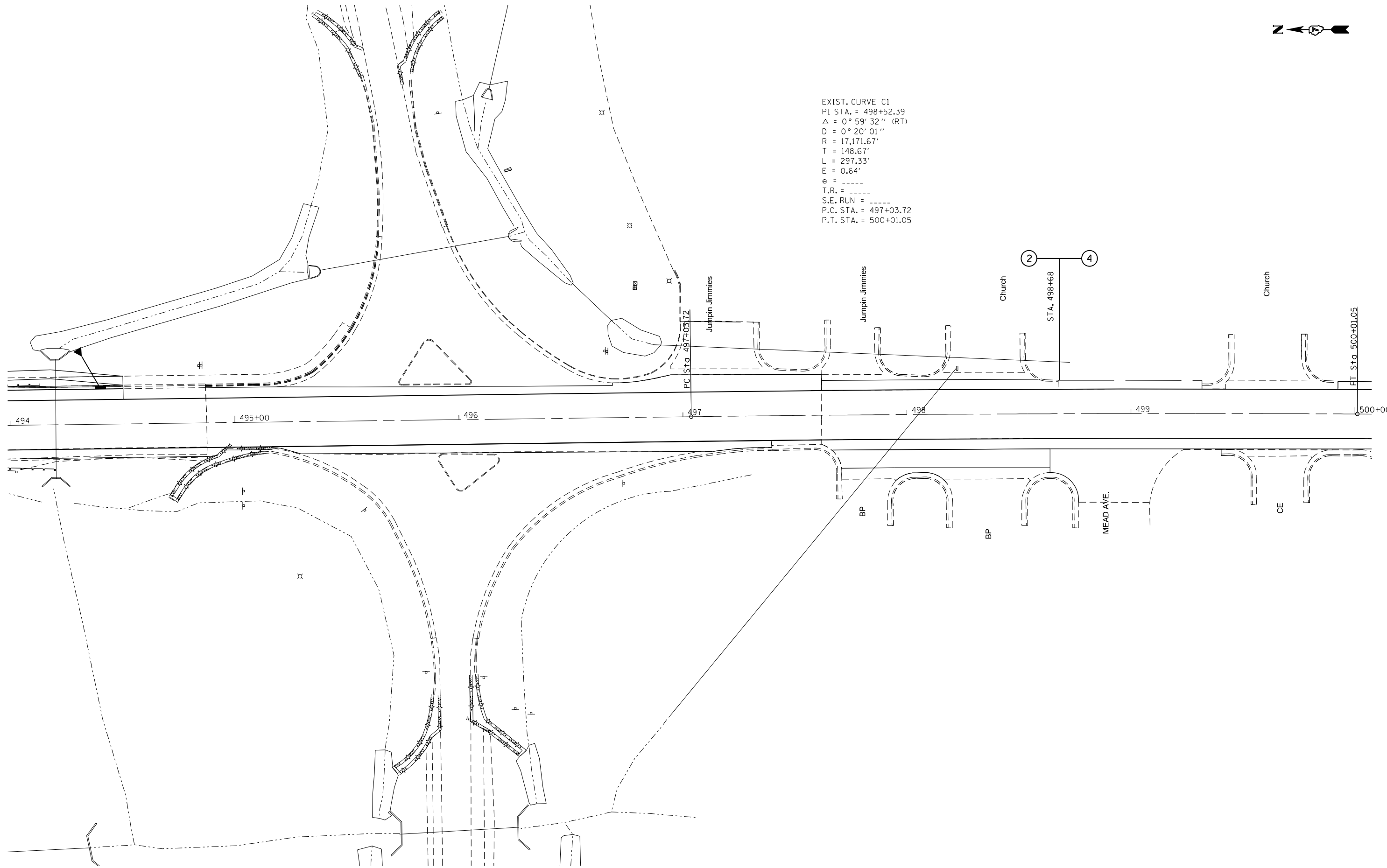


BENCHMARK:
CHISELED "□" TOP OF
FOOTING UNDER EBL 1-70
WEST SIDE OF FA 160
(MONTROSE BLACKTOP)
ELEVATION = 592.10

FILE NAME =	USER NAME = stefjenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN / PROFILE		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
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		CHECKED -	REVISED -										
		DATE -	REVISED -										



EXIST. CURVE C1
 PI STA. = 498+52.39
 $\Delta = 0^\circ 59' 32''$ (RT)
 $D = 0^\circ 20' 01''$
 $R = 17,171.67'$
 $T = 148.67'$
 $L = 297.33'$
 $E = 0.64'$
 $e = \text{-----}$
 $T.R. = \text{-----}$
 $S.E. RUN = \text{-----}$
 $P.C. STA. = 497+03.72$
 $P.T. STA. = 500+01.05$



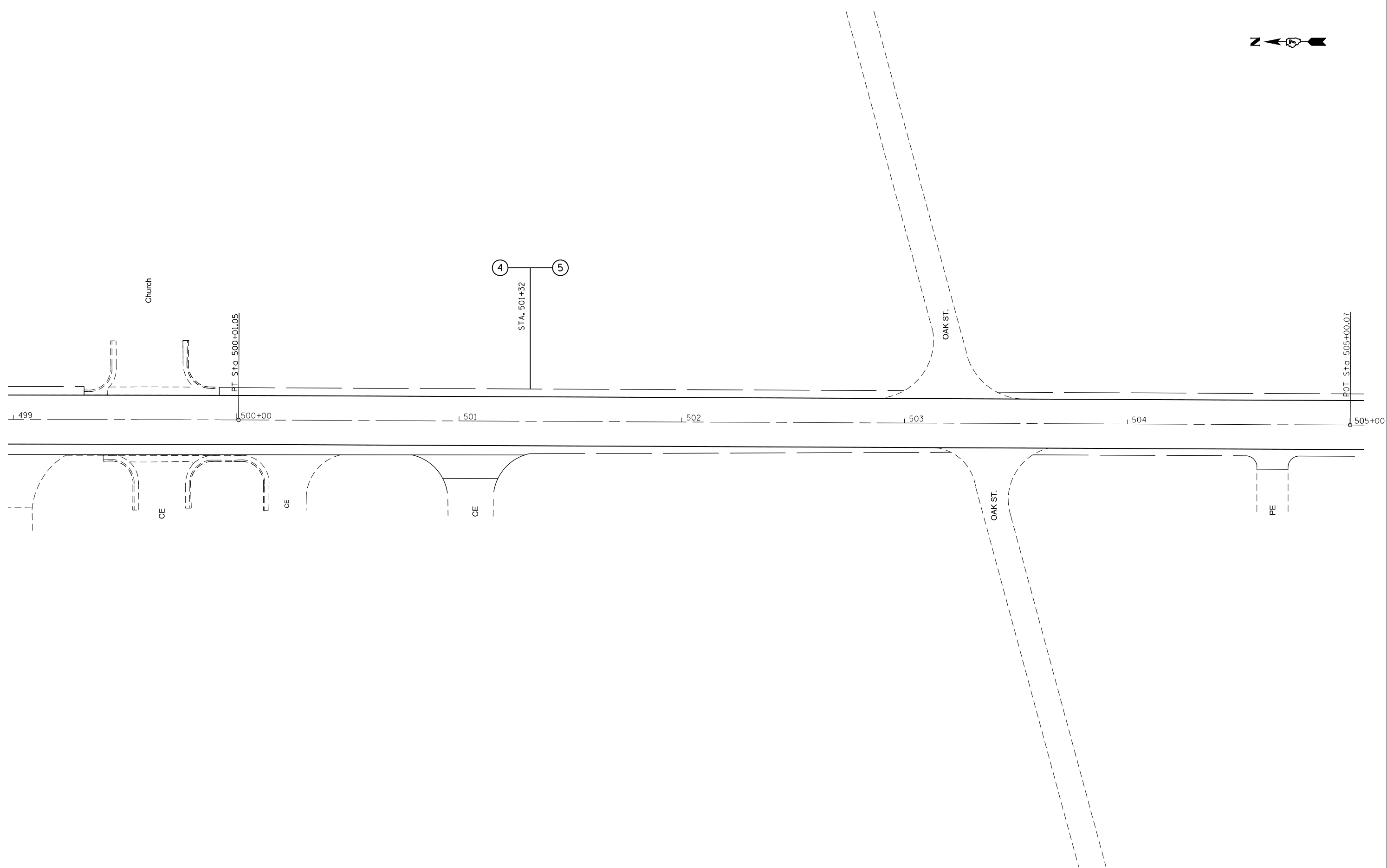
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	PLOT DATE = 1/27/2012	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PLAN

SCALE: 20 SHEET 3 OF 5 SHEETS STA. 494+00 TO STA. 500+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
828	12RS-1	Effingham	37	20
CONTRACT NO. 74566			ILLINOIS FED. AID PROJECT	



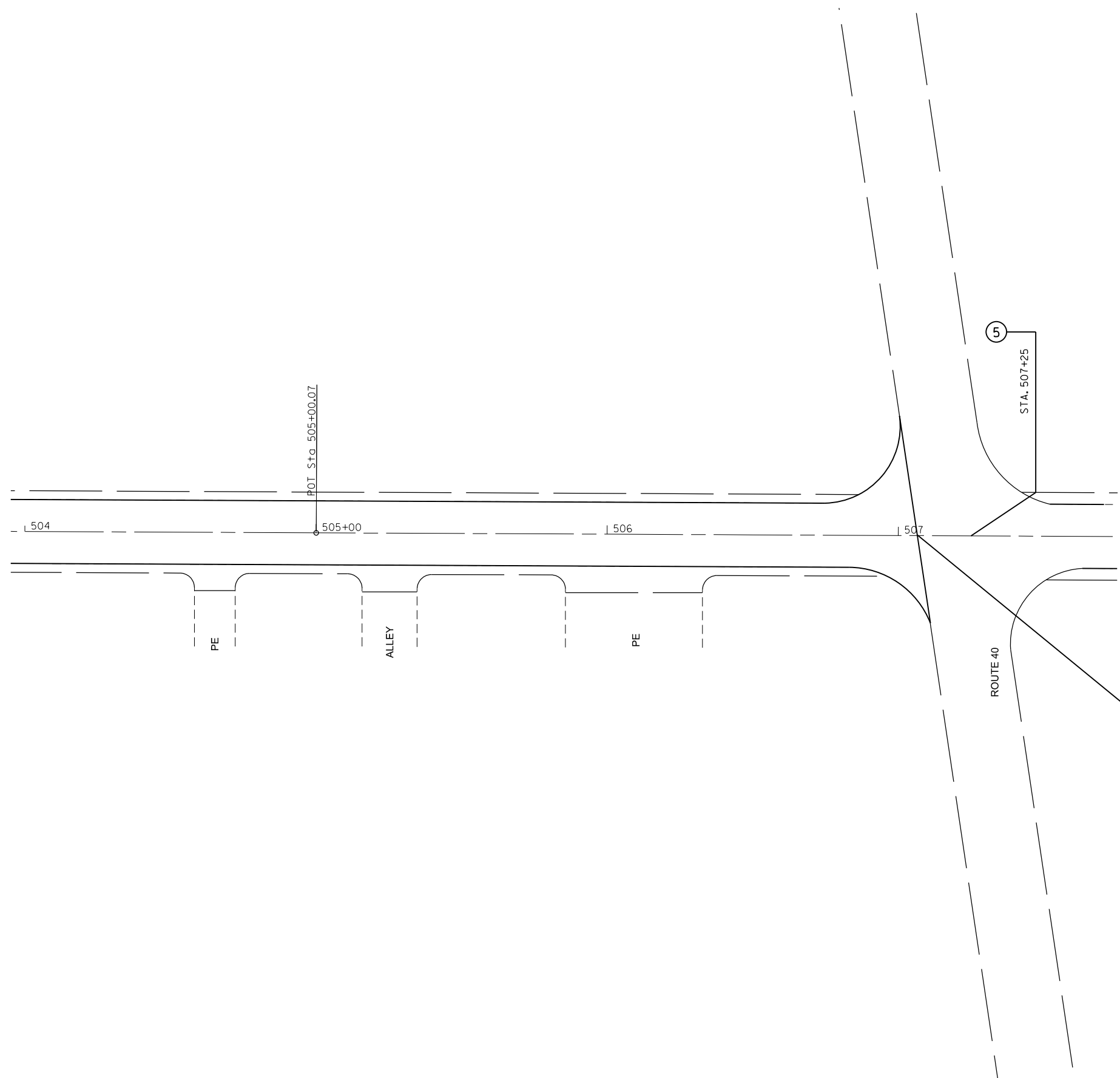
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	PLOT DATE = 1/27/2012	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN

SCALE: 20 SHEET 4 OF 5 SHEETS STA. 499+00 TO STA. 505+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
828	12RS-1	Effingham	37	21
CONTRACT NO. 74566			ILLINOIS FED. AID PROJECT	



F.A.P. ROUTE 828,
SECTION 12RS-1,
EFFINGHAM COUNTY,
ENDS STA. 507+06.5

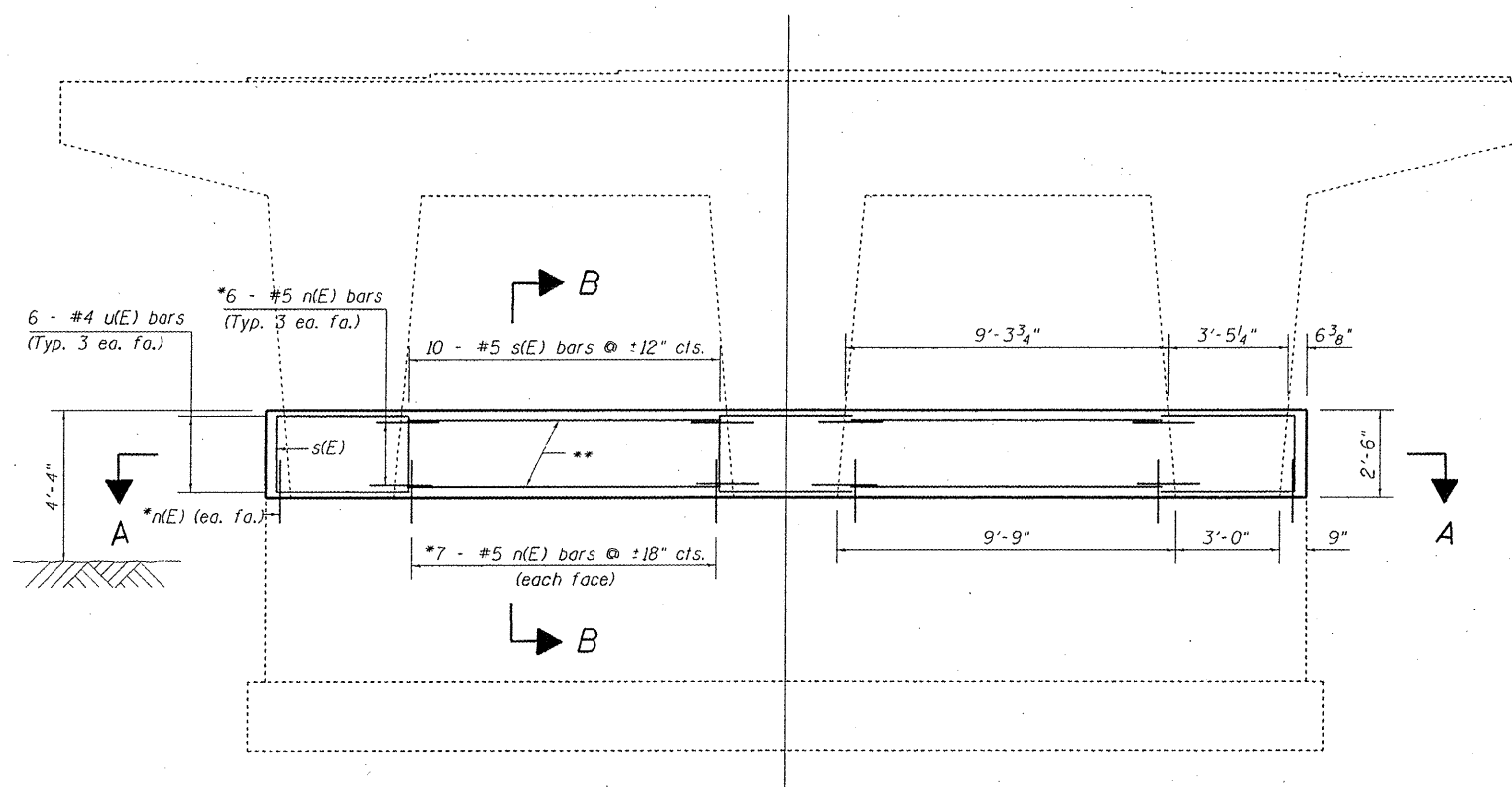
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	PLOT DATE = 1/27/2012	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN

SCALE: 20 SHEET 5 OF 5 SHEETS STA. 504+00 TO STA. 507+25

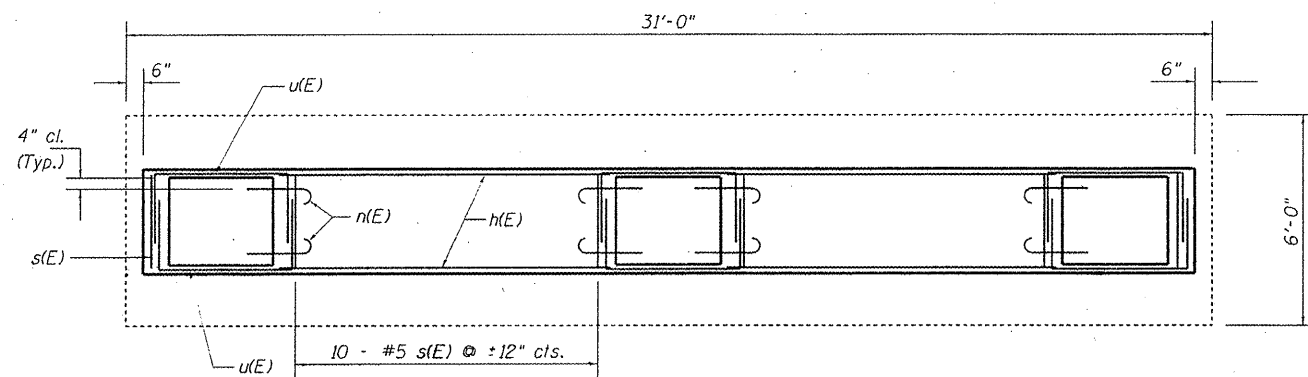
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
828	12RS-1	Effingham	37	22
CONTRACT NO. 74566			ILLINOIS FED. AID PROJECT	



ELEVATION
Reinforcement Details
typical at all locations.

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

** 7 - #5 h(E) bars
For locations see section B-B.



SECTION A-A

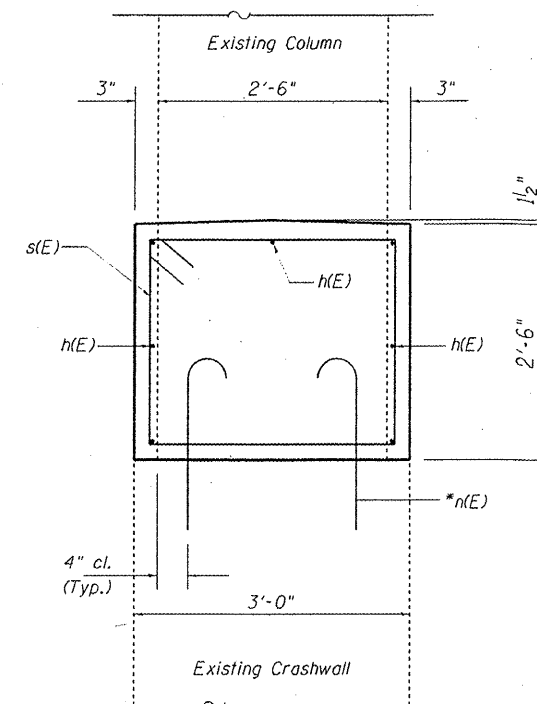
NOTES

The cost of epoxy grouting threaded rods shall be included with Reinforcement Bars, Epoxy Coated.

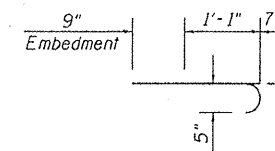
Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of 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.

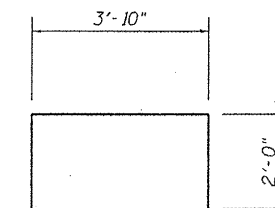
All unsound concrete on top surface of crashwall shall be removed prior to placing new concrete. The cost of this work shall be included in Concrete Structures.



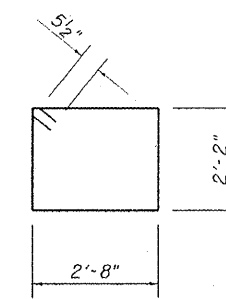
SECTION B-B



Bar n(E)



Bar u(E)

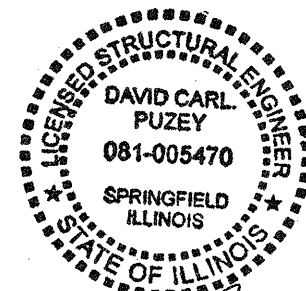


Bar s(E)

BILL OF MATERIAL

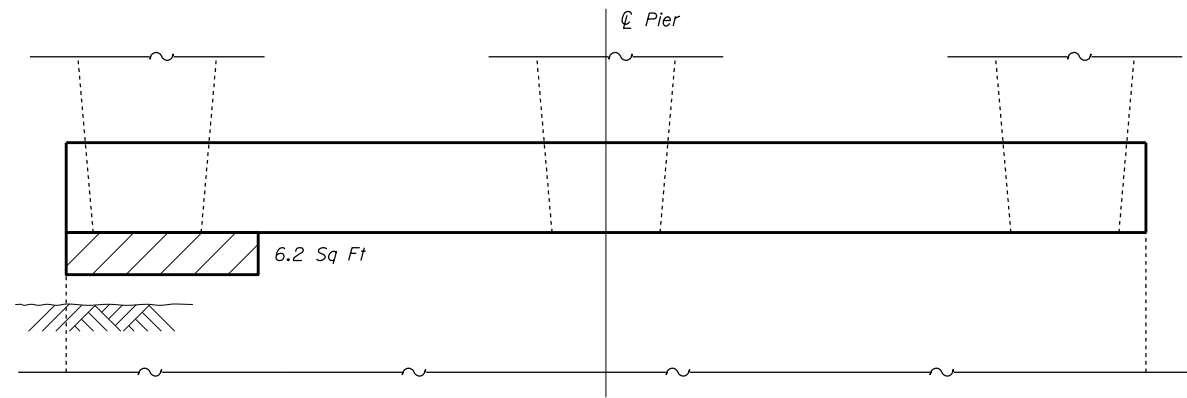
PER PIER (4 PIERS TOTAL)

BAR	TOTAL	SIZE	LENGTH	SHAPE
h (E)	14	#5	9'-0"	—
n (E)	56	#5	2'-5"	—
s (E)	22	#5	10'-7"	□
u (E)	18	#4	7'-10"	□
CONCRETE STRUCTURES			CU YD	6.1
REINFORCEMENT BARS, EPOXY COATED			POUND	610

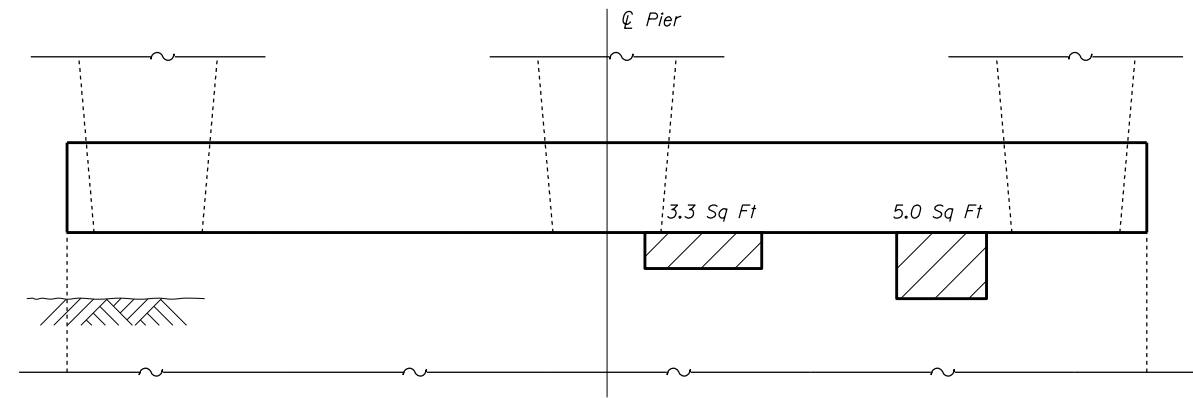


David Carl Puzey 3/27/12
Expires 11/30/12

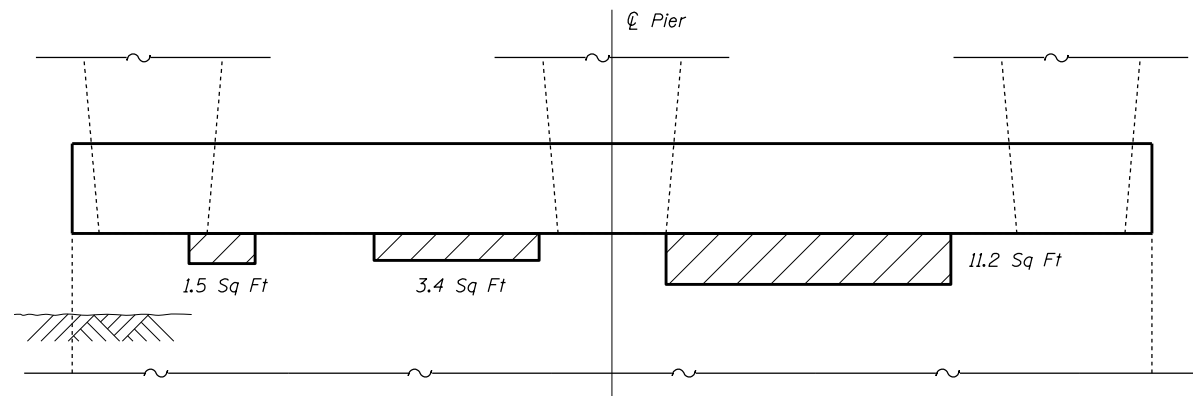
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SCALE : 40,0000 / in.	CHECKED - ADY	DATE - 12/13/11	REVISED -		SCALE: NA	SHEET 1	OF 2 SHEETS	STA.	TO STA.	CONTRACT NO. 74566 ILLINOIS FED. AID PROJECT		
DATE : 1/27/2012	DATE - 12/13/11	REVISED -	REVISED -									



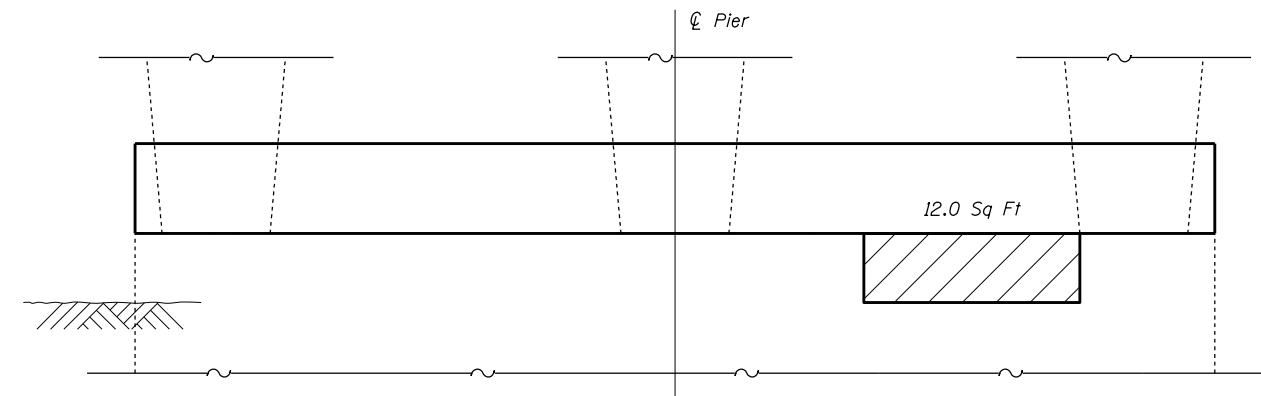
025-0016
EAST PIER, WEST FACE




025-0017
EAST PIER, WEST FACE



025-0016
WEST PIER, EAST FACE



025-0017
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
025-0016	East Pier	6.2
025-0016	West Pier	16.1
025-0017	East Pier	8.3
025-0017	West Pier	12.0
Total		42.6

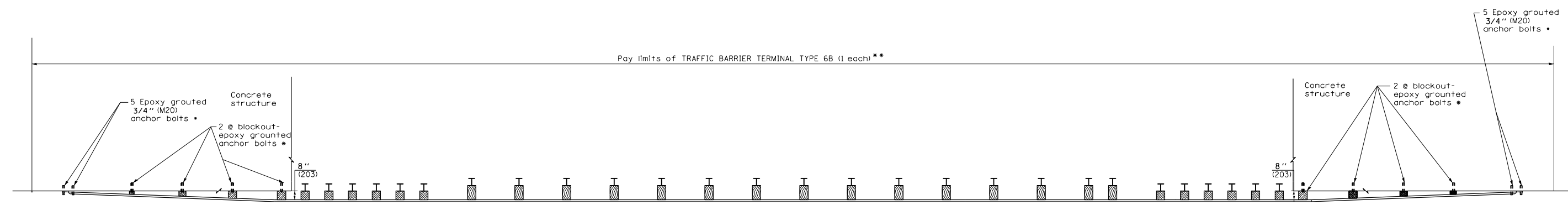
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	PLOT DATE = 1/27/2012	DATE - 12/13/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONCRETE REPAIR
SN. 025-0016 & 0017

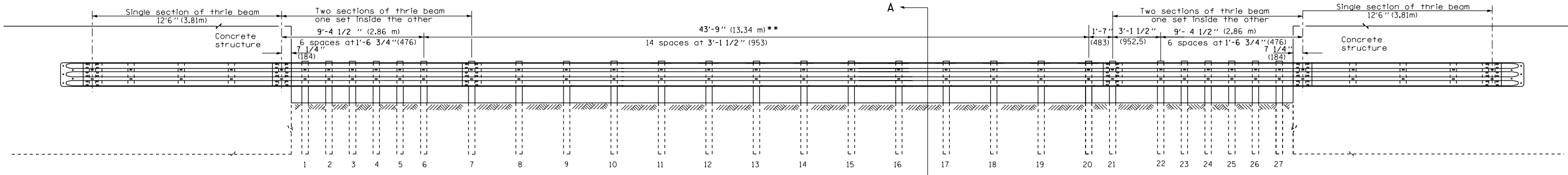
SCALE: NA SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 74566	
ILLINOIS FED. AID PROJECT				

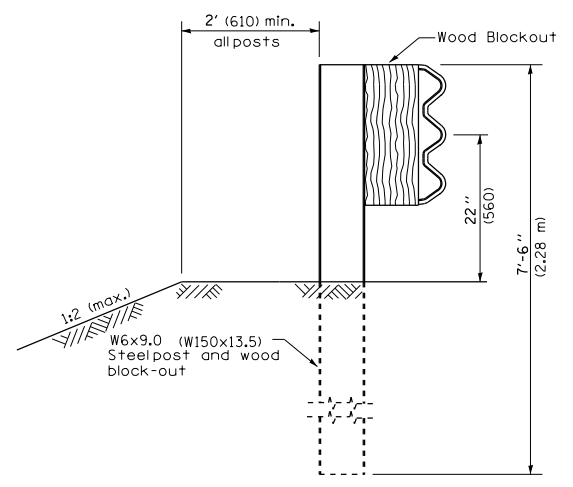


* With standard washers. After tightening, cut the anchor bolts flush with nuts, and damage the nut to prevent it from loosening.

PLAN



**The thrie beam will need to be cut and drilled to accommodate spacing between the two structures.

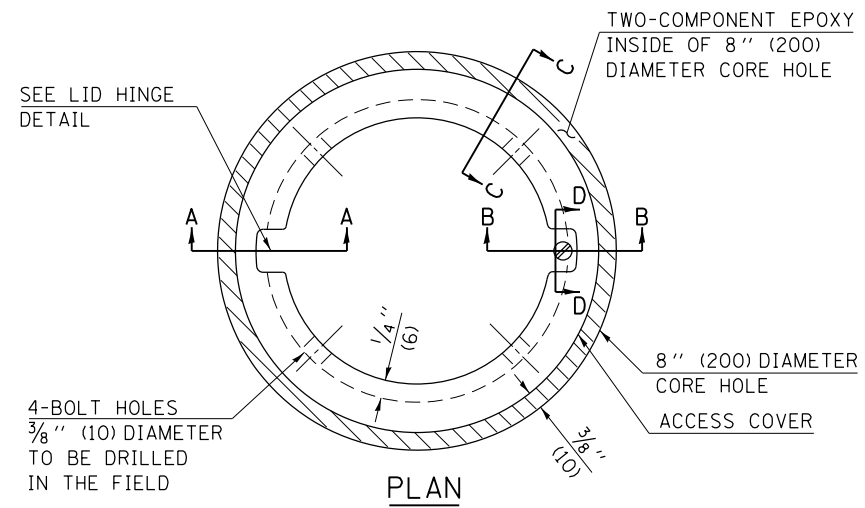


SECTION A-A

GENERAL NOTES

- See Standard 630001 for details of guardrail not shown.
- Thrie beam rail shall be bolted to block-out at all posts.
- All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).
- All dimensions are in millimeters (inches) unless otherwise shown.

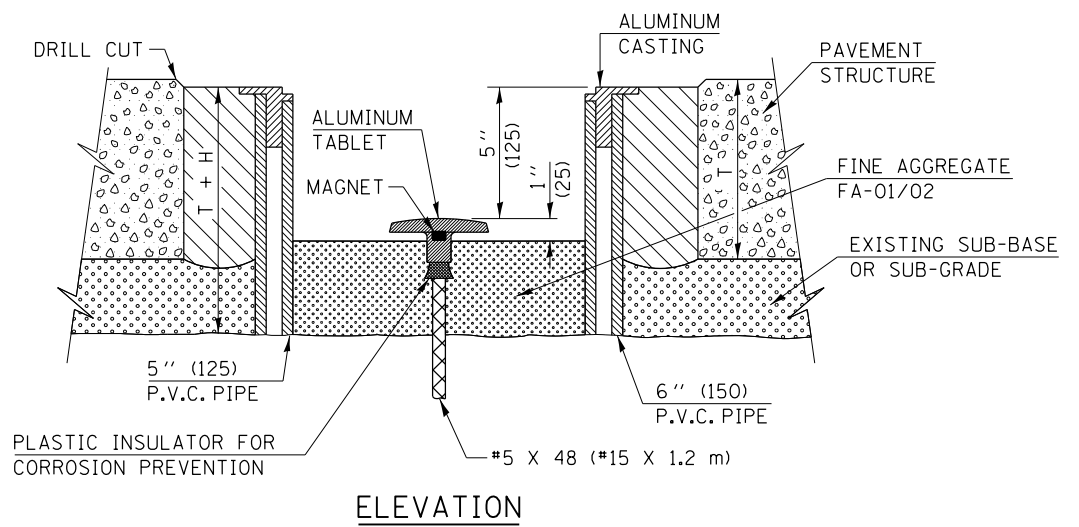
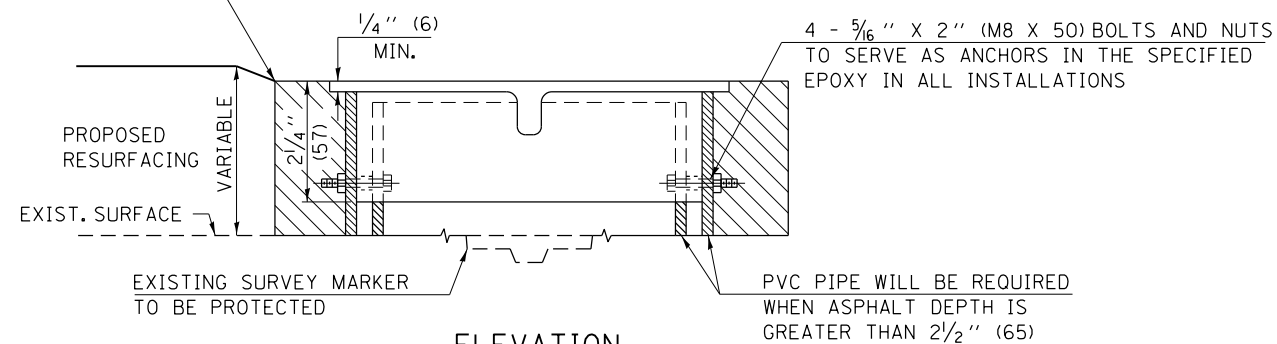
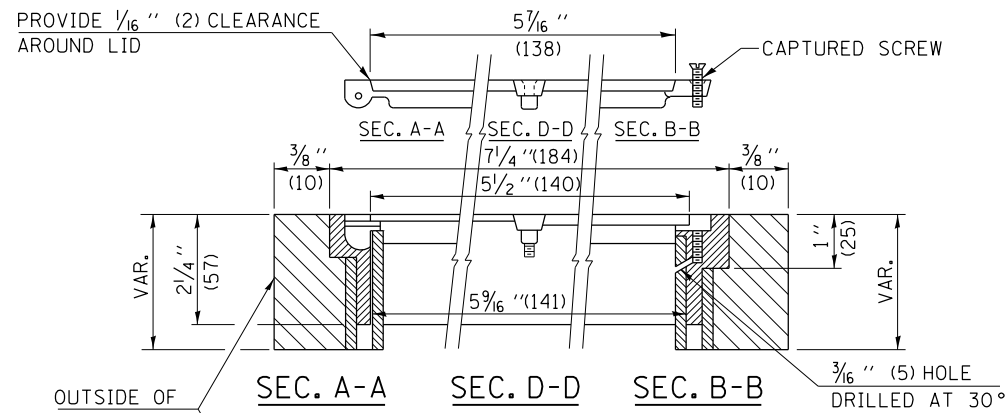
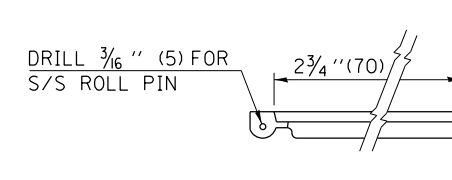
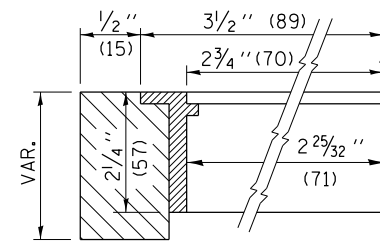
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ei:\pw\work\p\idot\steffenmk\d0289124\074566-sh1-details.dgn		DRAWN -	REVISED -		SCALE: NA	SHEET 1	OF 1	SHEETS	STA.	TO STA.	828	12RS-1	Effingham	37	25
		CHECKED -	REVISED -								CONTRACT NO. 74566				
		DATE -	REVISED -								ILLINOIS FED. AID PROJECT				



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).	



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

DISTRICT 7 DETAIL NO. Z0070202

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED - MAD 6-11
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	PLOT DATE = 1/27/2012	DATE -	REVISED -

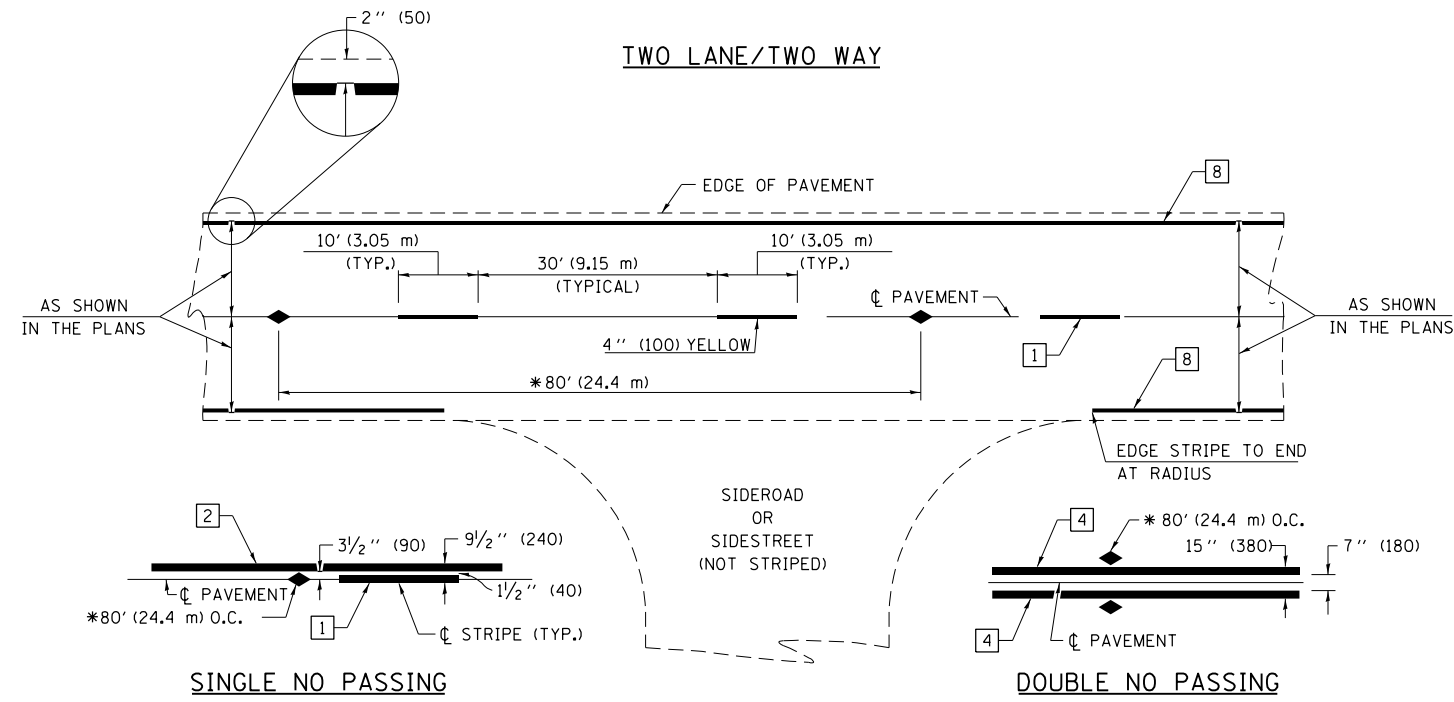
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SURVEY MARKER VAULT

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
828	12RS-1	Effingham	37	26
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

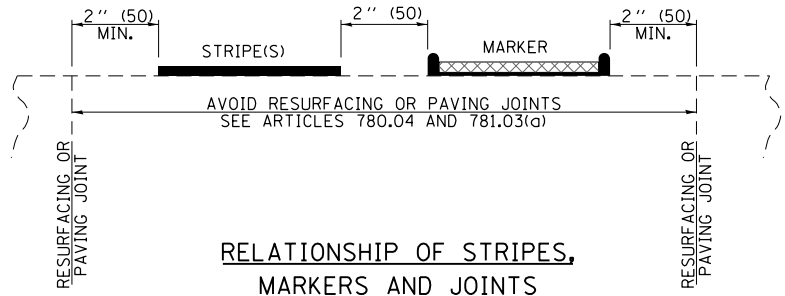
CONTRACT NO. 74566



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

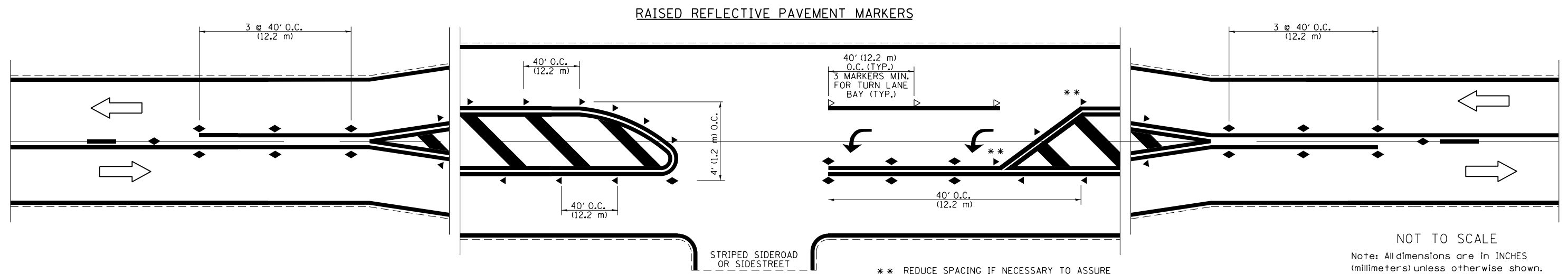
PAVEMENT MARKING LEGEND

- 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
-



TYPICAL PAVEMENT MARKERS LEGEND

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



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

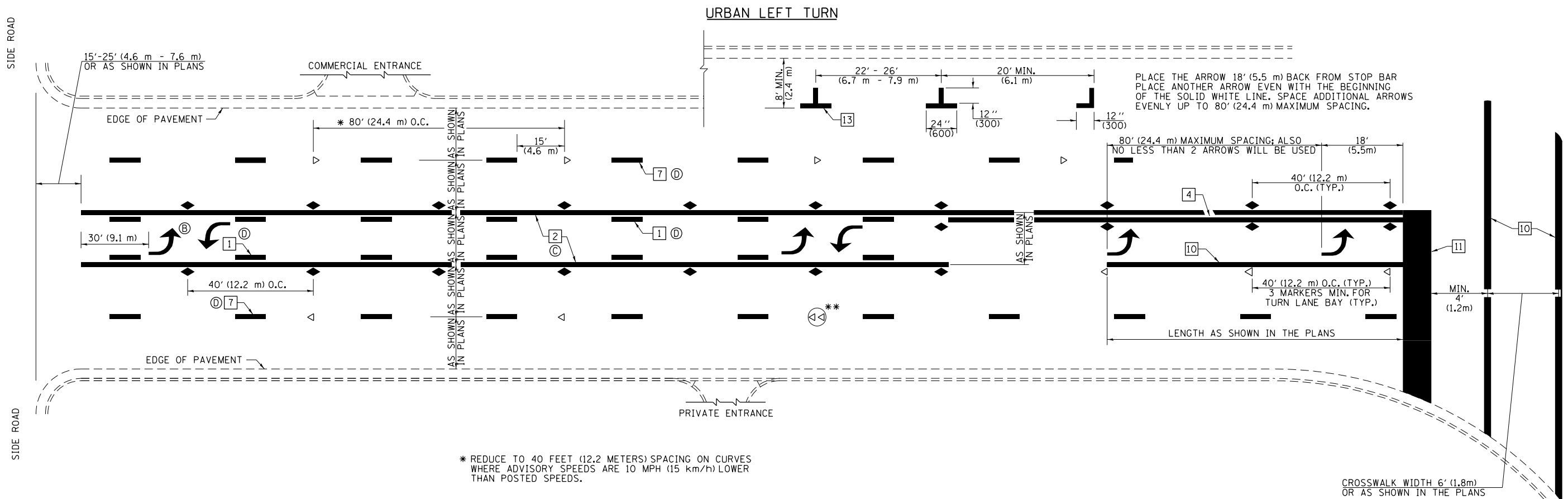
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		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

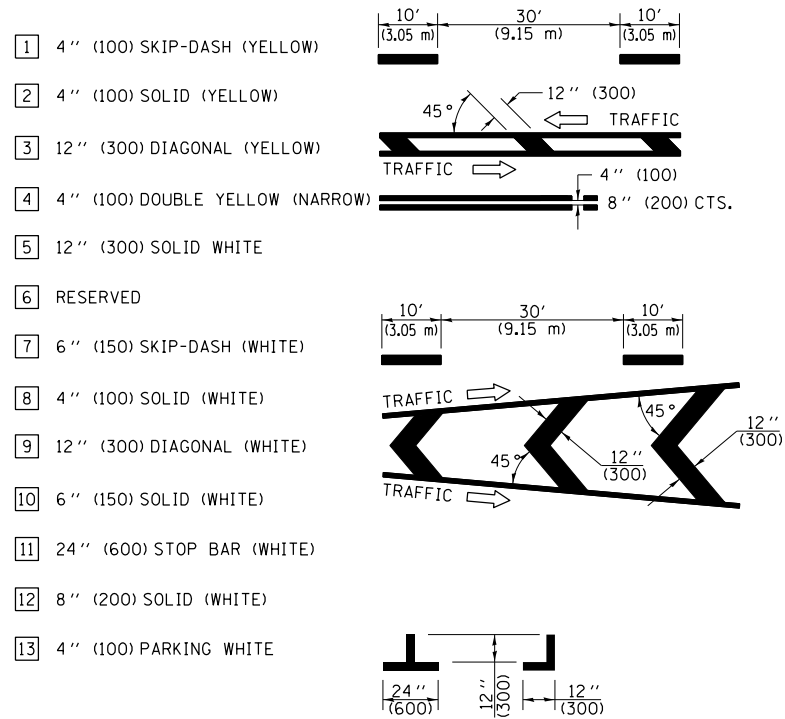
SCALE: NA SHEET NO. 1 OF 4 SHEETS STA. TO STA.

DISTRICT 7 DETAIL NO. 78000001				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
828	12RS-1	Effingham	37	27
			CONTRACT NO. 74566	
ILLINOIS FED. AID PROJECT				



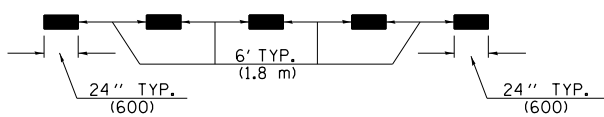
- * REDUCE TO 40 FEET (12.2 METERS) SPACING ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH (15 km/h) LOWER THAN POSTED SPEEDS.
- ** DOUBLE LANE LINE MARKERS SHALL BE SPECIFIED AND SPACED AS SHOWN IN HIGHWAY STANDARD 781001 FOR MULTI-LANE DIVIDED AND UNDIVIDED HIGHWAYS.

PAVEMENT MARKING LEGEND

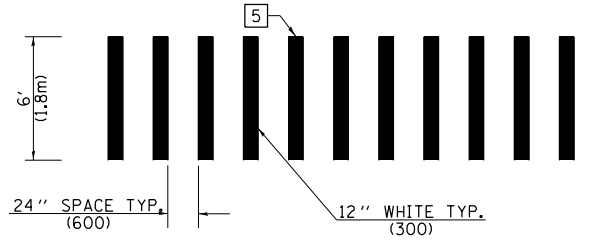


GENERAL NOTES

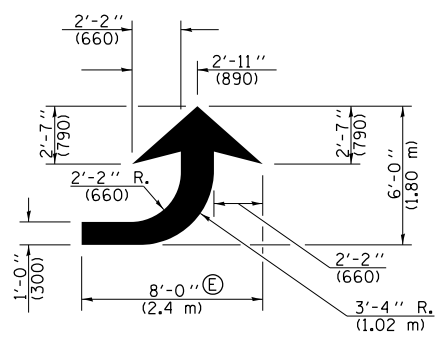
1. TURN ARROW PAIRS SHALL BE PLACED AT 250' (75 m) INTERVALS AND SHALL BE EVENLY SPACED BETWEEN BOTH ENDS OF THE BIDIRECTIONAL LEFT TURN LANE. USE A MINIMUM OF TWO PAIRS PER BLOCK.
2. THE SOLID YELLOW PAVEMENT MARKINGS [2] SHOULD GENERALLY START OR END NEAR THE RADIUS POINT OF EACH STREET RETURN EXCEPT 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.



LANE LINE EXTENSIONS

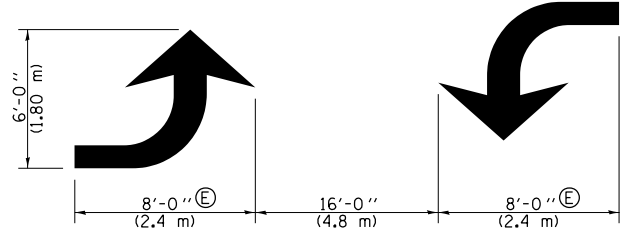


CROSSWALK DETAIL (DECATUR CITY LIMITS ONLY)



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

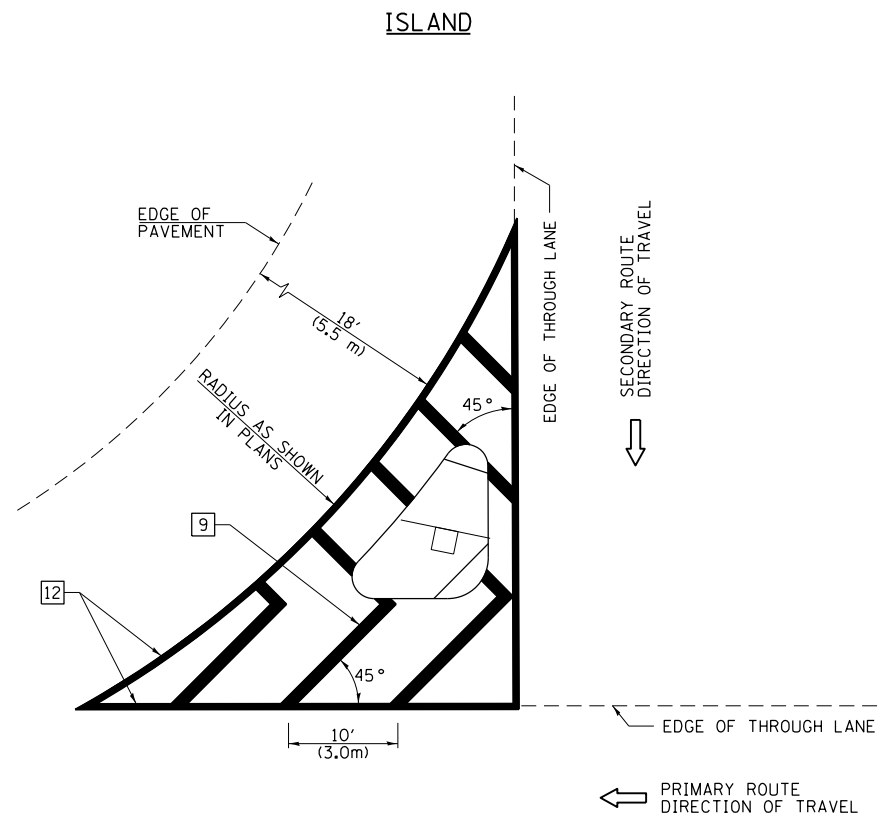
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	PLOT DATE = 1/27/2012	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

SCALE: NA	SHEET NO. 2 OF 4 SHEETS	STA. TO STA.
-----------	-------------------------	--------------

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
828	12RS-1	Effingham	37	28
CONTRACT NO. 74566			ILLINOIS FED. AID PROJECT	

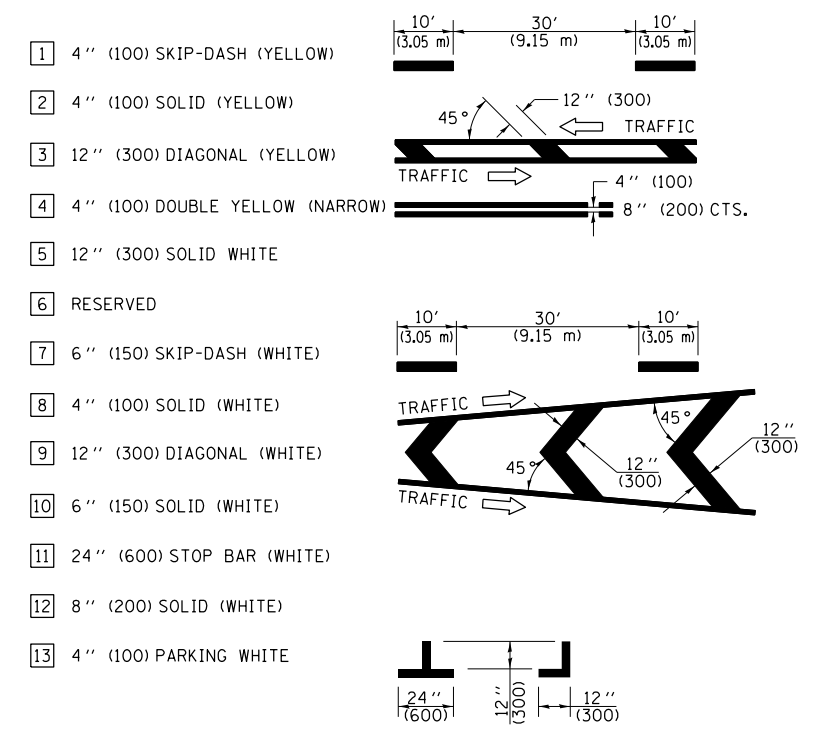


GENERAL NOTES

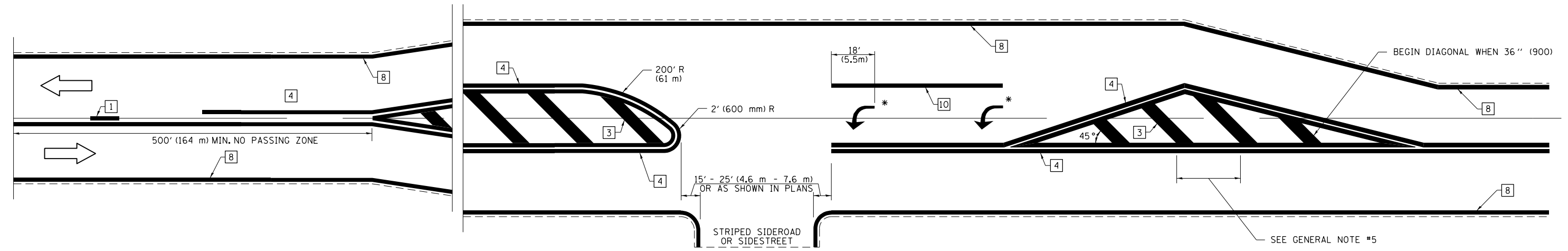
1. RAISED AND CORRUGATED MEDIANS SHALL BE OUTLINED WITH [2] IF PRESENT.
2. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
3. PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
4. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING 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 -
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	PLOT DATE = 1/27/2012	DATE -	REVISED -

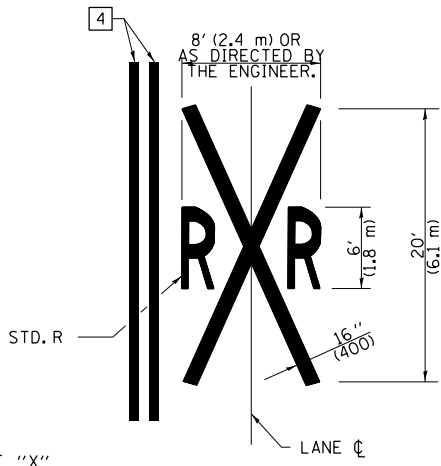
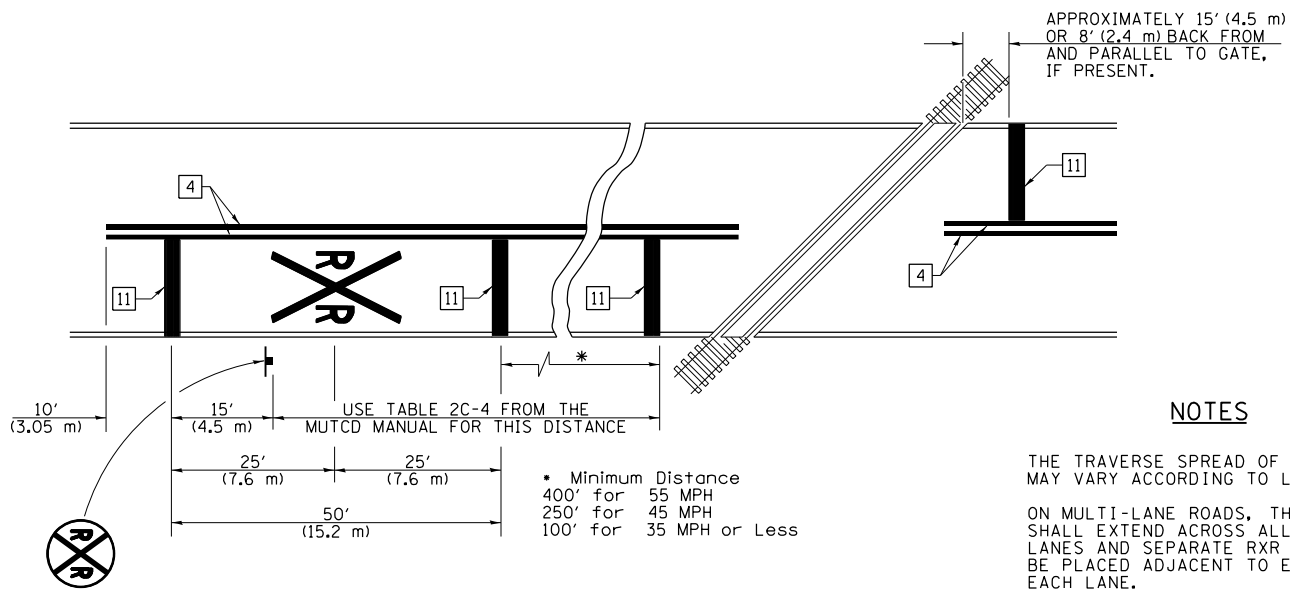
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**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.
828	12RS-1	Effingham	37	29
CONTRACT NO. 74566				
ILLINOIS FED. AID PROJECT				

PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING



NOTES

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

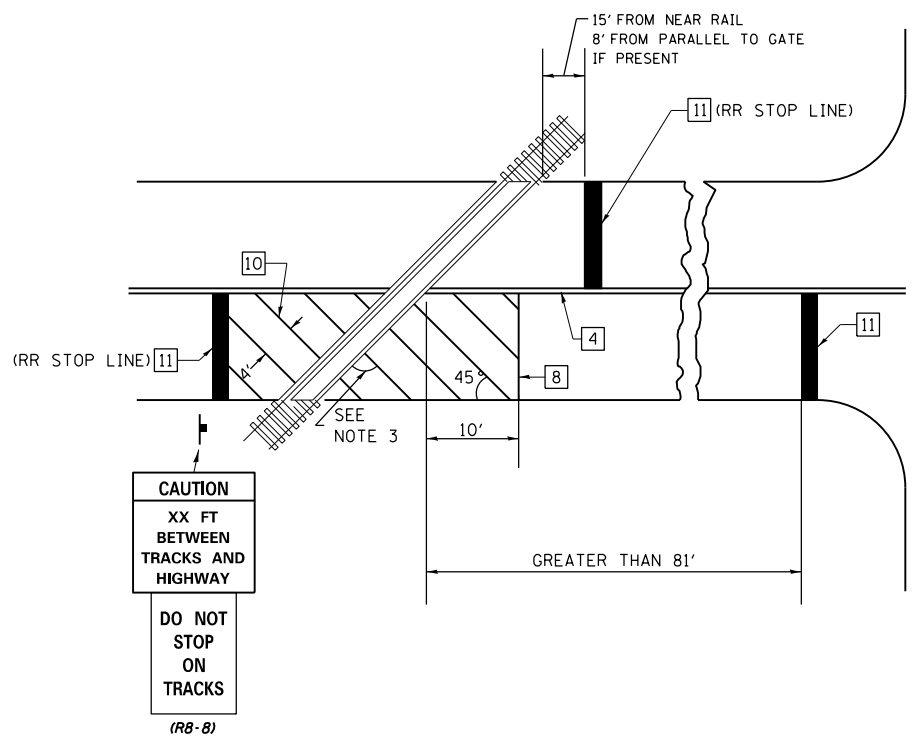
ON MULTI-LANE ROADS, THE STOP LINES SHALL EXTEND ACROSS ALL APPROACH LANES AND SEPARATE RXR SYMBOLS SHALL BE PLACED ADJACENT TO EACH OTHER IN EACH LANE.

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.

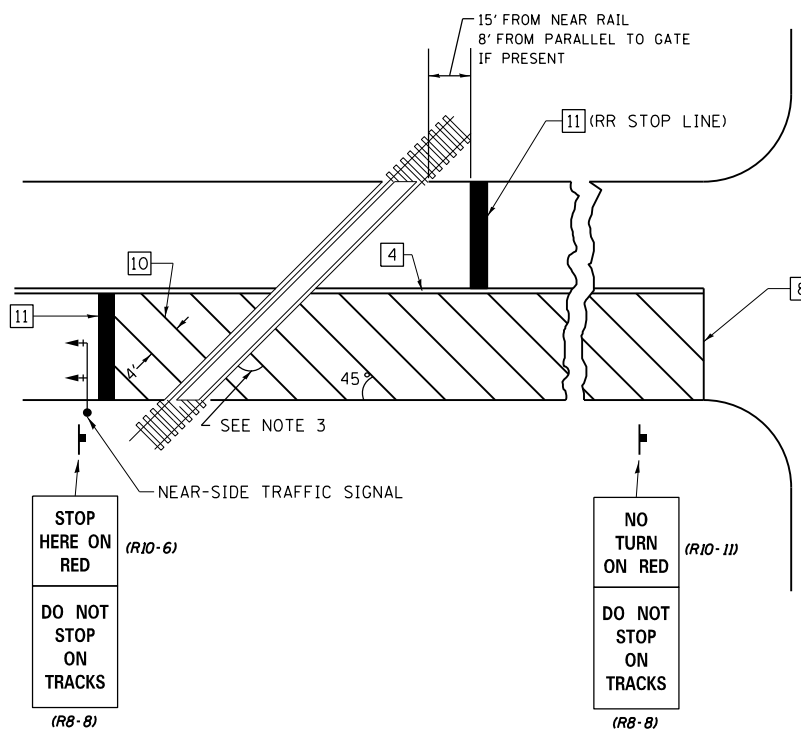
PAVEMENT MARKING LEGEND

- 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

RAILROAD CROSSING WITH INTERCONNECT ONLY



RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS



GENERAL NOTES

1. SUPPLEMENTAL PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
2. EXTEND PAVEMENT MARKINGS TO THE INTERSECTION ONLY WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED.
3. 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

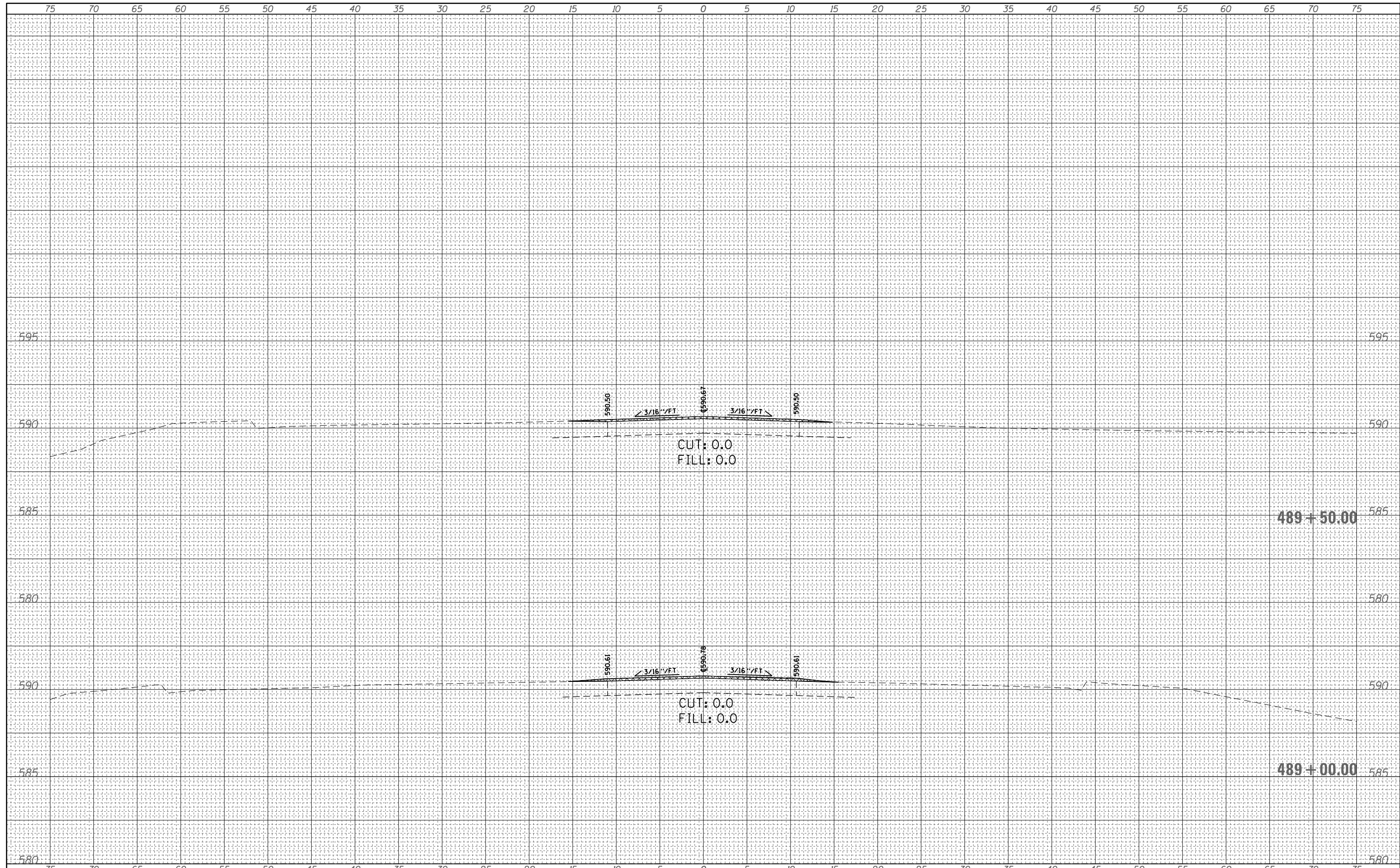
Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

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.
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PLOT SCALE = 100.0000' / 1in.		CHECKED -	REVISED -					CONTRACT NO. 74566				
PLOT DATE = 1/27/2012		DATE -	REVISED -					ILLINOIS FED. AID PROJECT				
				SCALE: NA	SHEET NO. 4 OF 4 SHEETS	STA. TO STA.						

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



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	DRAWN -	REVISED -
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PLOT DATE = 1/27/2012	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

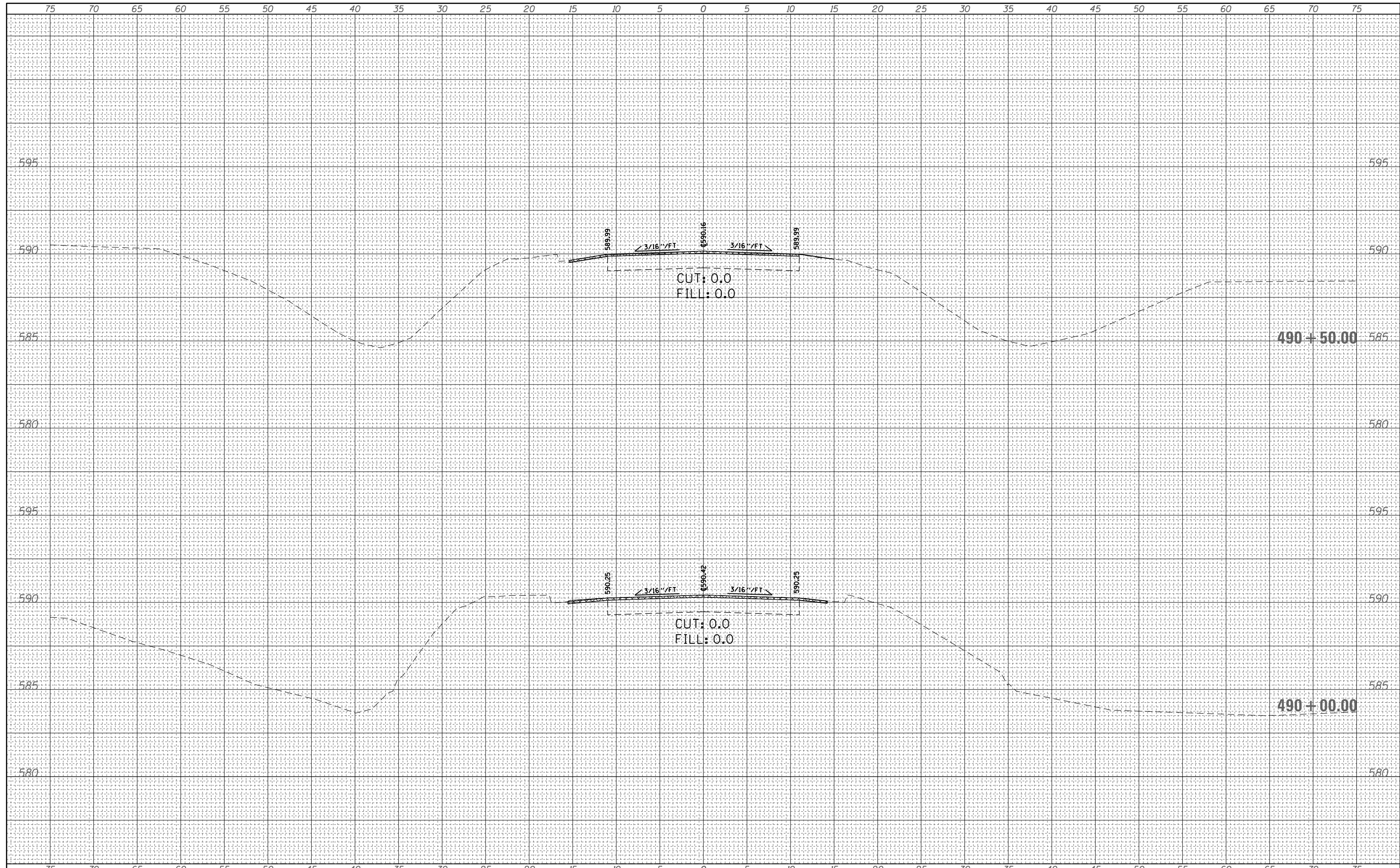
CROSS SECTIONS

SCALE: 5 SHEET 1 OF 7 SHEETS STA. 489+00.00 TO STA. 489+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
828	12RS-1	Effingham	37	31
			CONTRACT NO. 74566	
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	

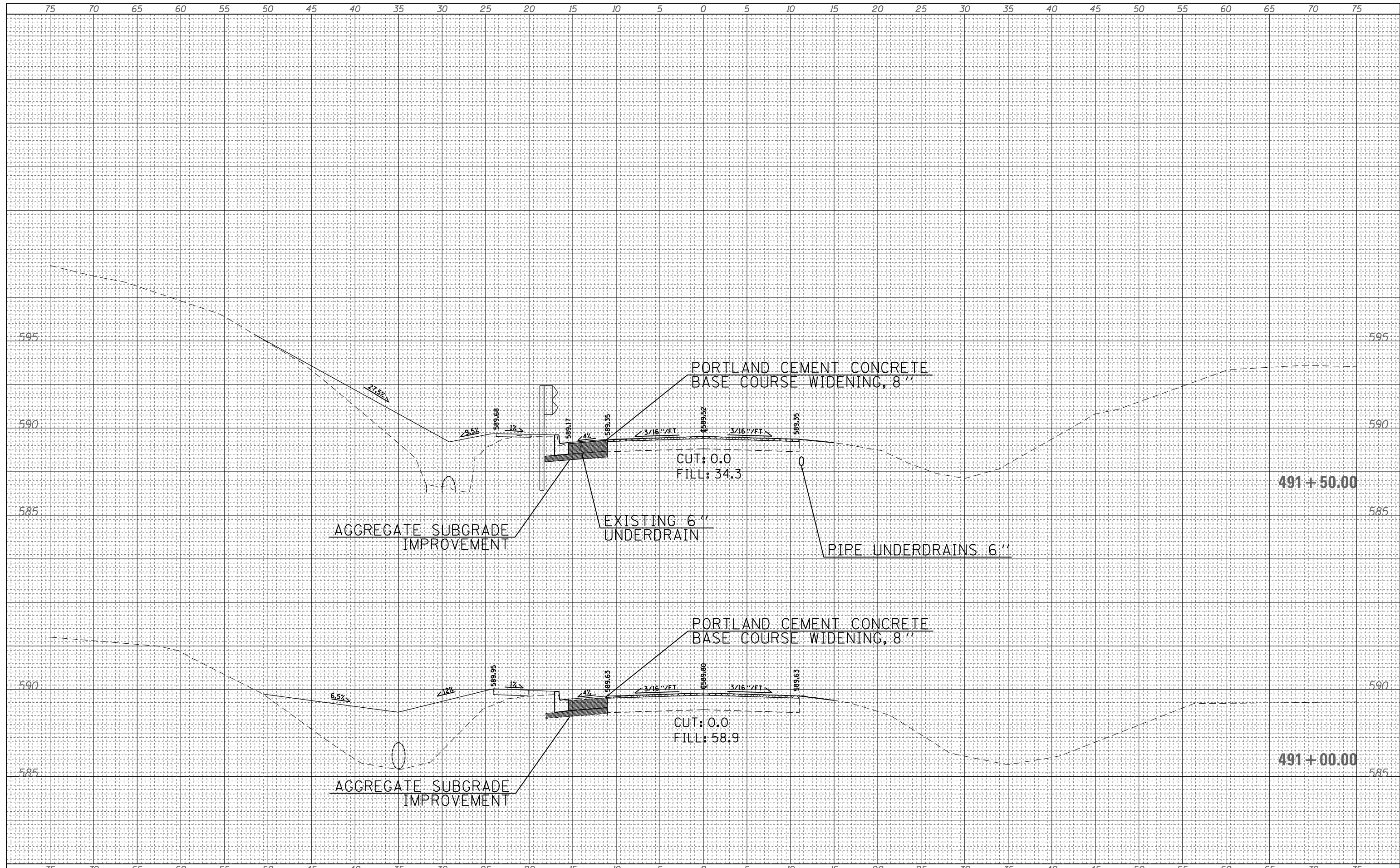
DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	



FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pw_work\pwidot\steffenmk\d0289124\0774566-S-SHT.dgn	DRAWN -	REVISED -	828			12RS-1	Effingham	37	32	
PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED -	CONTRACT NO. 74566							
PLOT DATE = 1/27/2012	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							
				SCALE: 5	SHEET 2 OF 7 SHEETS	STA. 490+00.00 TO STA. 490+50.00				

DATE	
BY	
FINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	

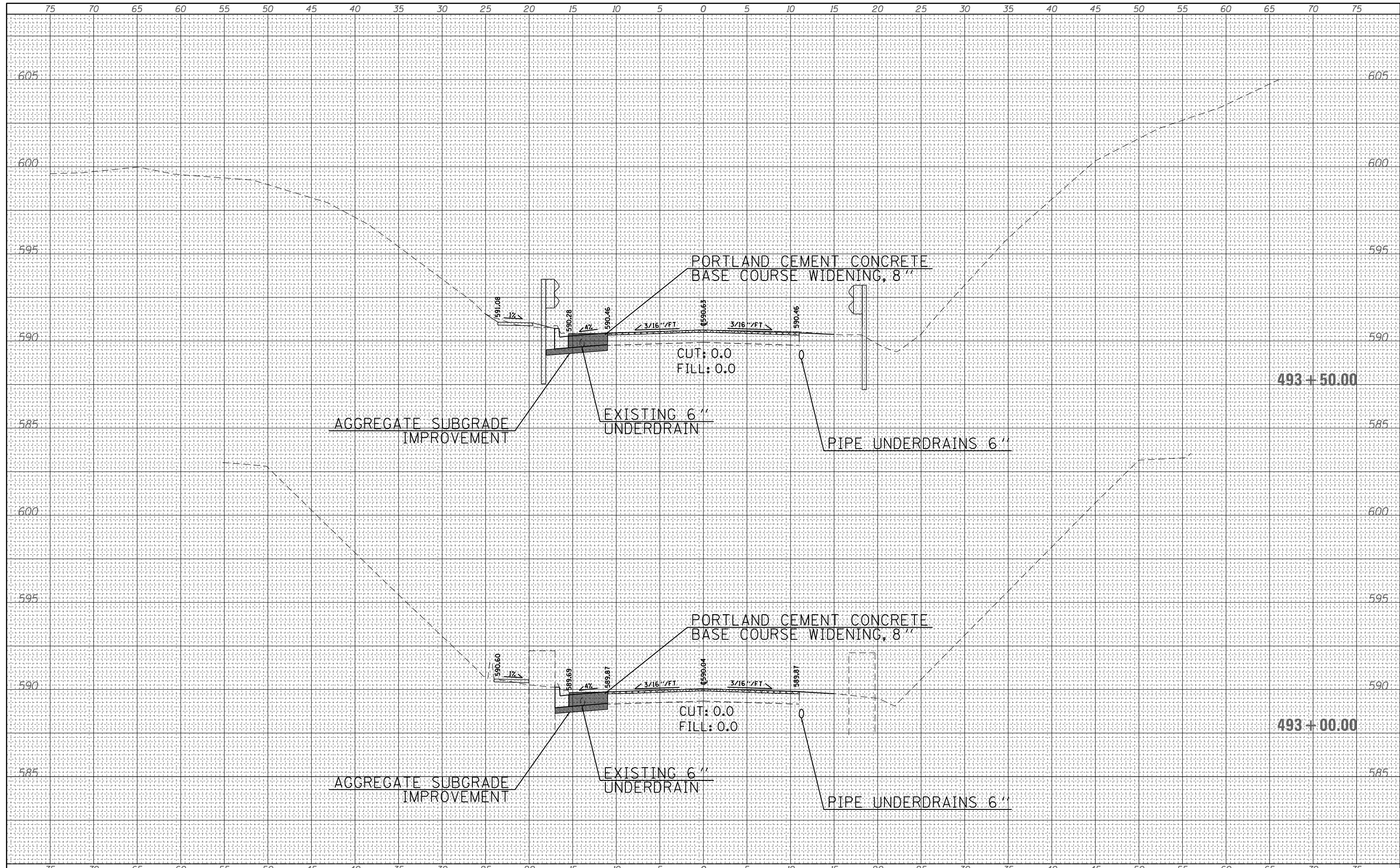
DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	



FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS SCALE: 5 SHEET 3 OF 7 SHEETS STA. 491+00.00 TO STA. 491+50.00	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pw_work\pwidot\stefhenmk\d0289124\0774566-S-SHT.dgn	DRAWN -	REVISED -	828			12RS-1	Effingham	37	33	
PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED -	CONTRACT NO. 74566							
PLOT DATE = 1/27/2012	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



FILE NAME =
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USER NAME = steffenmk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 1/27/2012	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

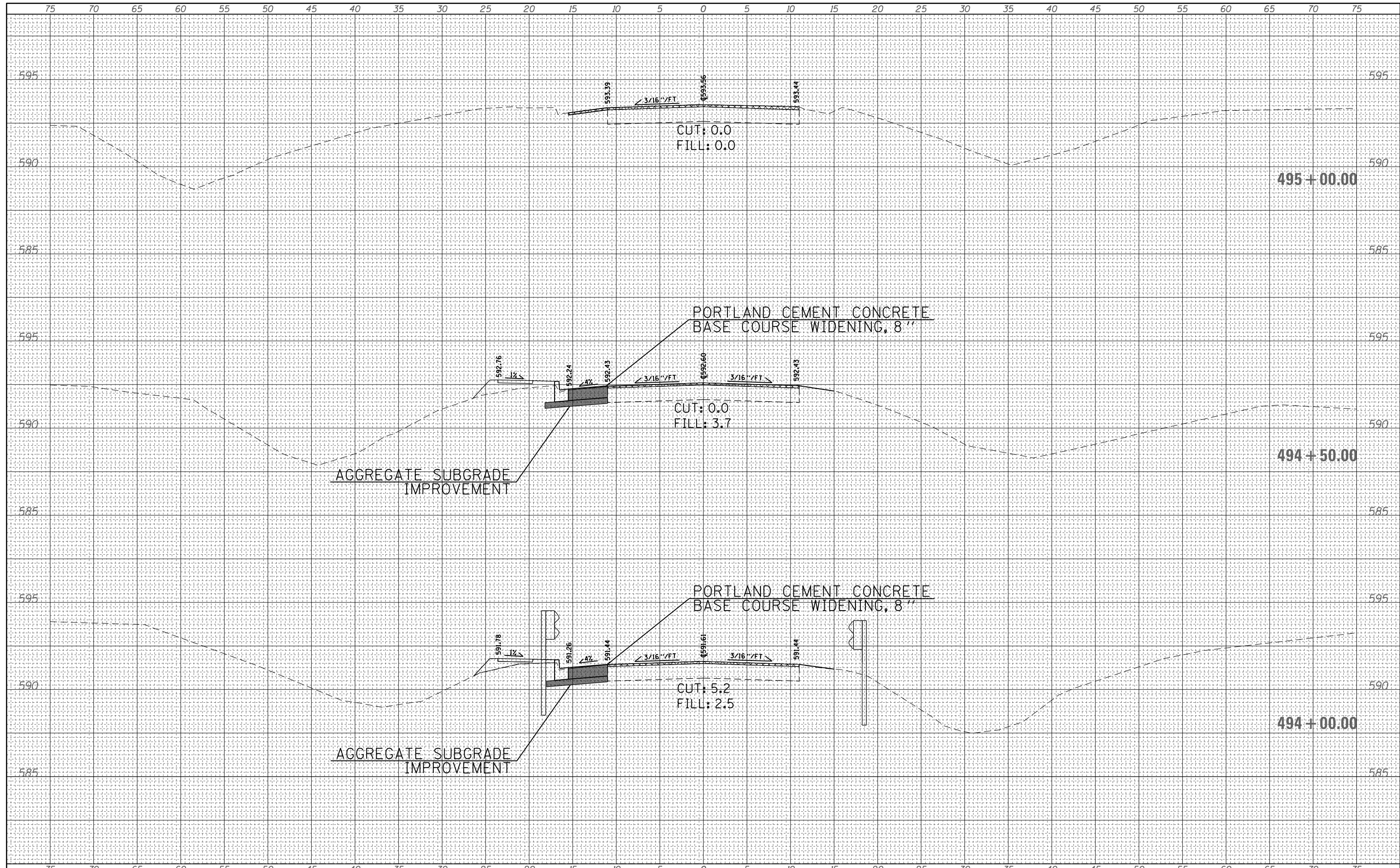
CROSS SECTIONS

SCALE: 5 SHEET 5 OF 7 SHEETS STA. 493+00.00 TO STA. 493+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
828	12RS-1	Effingham	37	35
			CONTRACT NO. 74566	
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



FILE NAME =
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USER NAME = steffenmk	DESIGNED -	REVISED -
PLOT SCALE = 10.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 1/27/2012	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

SCALE: 5 SHEET 6 OF 7 SHEETS STA. 494+00.00 TO STA. 495+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
828	12RS-1	Effingham	37	36
CONTRACT NO. 74566			ILLINOIS FED. AID PROJECT	

