

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	**	MC HENRY	38	1
FED. ROAD DIST. NO. 1 ILLINOIS HIGHWAY PROJECT				

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED HIGHWAY PLANS**

FAP ROUTE 334: US 12 (MAIN ST.)

- 1) AT ILL 31 AND TRYON GROVE RD. INTERSECTION IMPROVEMENT
- 2) ILL 31 TO ILL 173 (KENOSHA ST) RESURFACING (MAINTENANCE)
- 3) US 12 OVER N. BRANCH NIPPERSINK CREEK (BRIDGE DECK OVERLAY)

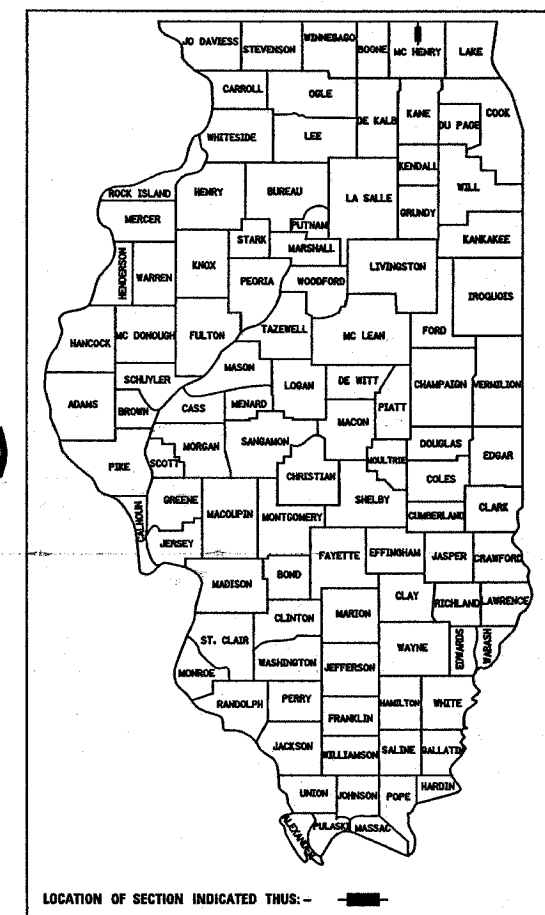
SECTION: 111 RS-5 & 116B-1

PROJECT: ACHPP-HPP-F-BHF-0334(016)

MC HENRY COUNTY

C-91-123-06

D-91-123-06



LOCATION OF SECTION INDICATED THUS: - ■ -

FOR INDEX OF SHEETS, SEE SHEET NO. 2

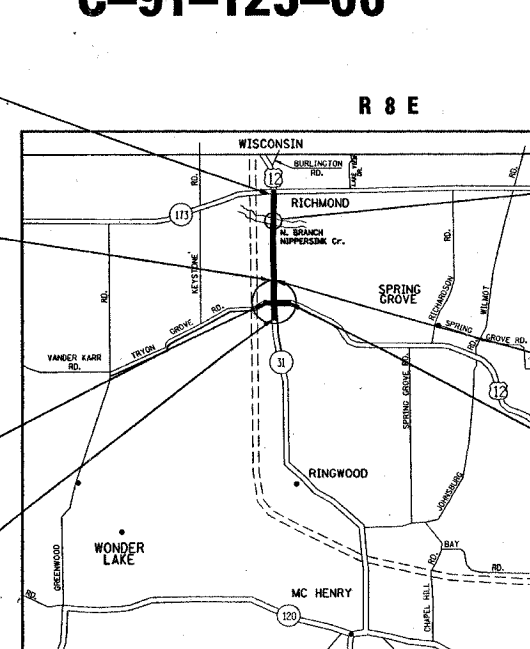
THIS PROJECT IS LOCATED IN THE VILLAGE OF RICHMOND

LOCATION 2  
RESURFACING ENDS  
PROJECT ENDS  
STA 125+00

LOCATION 2  
RESURFACING BEGINS  
STA 29+64

LOCATION 1  
PROJECT BEGINS  
STA 4+92 'W'

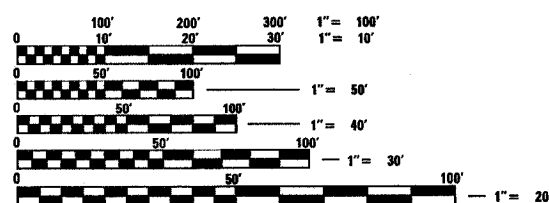
LOCATION 1  
PROJECT BEGINS  
STA 10+00 'S'



LOCATION 3  
SN 056-0017  
STA 16+09.68 'N'

LOCATION 1  
PROJECT ENDS  
STA 29+64 'N'

LOCATION 1  
PROJECT ENDS  
STA 19+40 'E'



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

CONTRACT NO. 60A91

LOCATION 1 { GROSS LENGTH OF PROJECT = 3412 FEET = 0.646 MILE  
NET LENGTH OF PROJECT = 3412 FEET = 0.646 MILE

LOCATION 2 { GROSS LENGTH OF RESURFACING = 9536 FEET = 1.806 MILES  
NET LENGTH OF RESURFACING = 9536 FEET = 1.806 MILES

TRAFFIC DATA

US 12 (NORTH LEG): 2006 ADT = 14,000  
SPEED LIMIT = 50 MPH  
US 12 (EAST LEG): 2006 ADT = 9,400  
SPEED LIMIT = 55 MPH  
ILL 31 (SOUTH LEG): 2006 ADT = 7,700  
SPEED LIMIT = 55 MPH  
TRYON GROVE RD.: 2006 ADT = 3,200  
SPEED LIMIT = 45 MPH

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED May 9, 2007  
Diane O'Keefe  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

June 29, 2007  
Brian E. Hanson  
ENGINEER OF DESIGN AND ENVIRONMENT

June 29, 2007  
Milton R. Seese, P.E.  
DIRECTOR, DIVISION OF HIGHWAYS

PRINTED BY THE AUTHORITY OF THE  
STATE OF ILLINOIS

DISTRICT ONE -- DESIGN -- PLAN PREPARATION ENGINEER  
KEN ENG / ROBERT BORO (847) 705-4178

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	**	MCHENRY	98	2
STA.		TO STA.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

INDEX OF SHEETS

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1	COVER SHEET
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85	DRIVEWAY ENTRANCE SIGNING
86	DISTRICT ONE DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING
87-98	CROSS SECTIONS

LIST OF STATE STANDARDS

STANDARD NO.	DESCRIPTION
000001-04	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-03	TEMPORARY EROSION CONTROL SYSTEMS
442201-02	CLASS C AND D PATCHES
482001-01	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
482011-02	HMA SHOULDER STRIPS/SHOULDER WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
542311	GRATING FOR CONCRETE FLARED END SECTION (FOR 600 mm (24") THRU 1350 mm (54") PIPE)
542301-01	PRECAST REINFORCED CONCRETE FLARED END SECTION
542306-01	PRECAST REINFORCED CONCRETE ELLIPTICAL FLARED END SECTION
542311	GRATING FOR CONCRETE FLARED END SECTION (FOR 600 mm (24") THRU 1350 mm (54") PIPE)
602011	CATCH BASIN TYPE C
602401-01	MANHOLE TYPE A
604001-02	FRAME AND LIDS TYPE I
604091-01	FRAME AND GRATE TYPE 24
606001-03	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701201-02	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701301-02	LANE CLOSURE, 2L 2W, SHORT TIME OPERATIONS
701306-01	LANE CLOSURE, 2L 2W, SLOW MOVING DAY ONLY OPERATIONS, FOR SPEEDS ≥ 45 MPH
701311-02	LANE CLOSURE, 2L 2W, MOVING OPERATIONS-DAY ONLY, FOR SPEEDS ≥ 45 MPH
701326-02	LANE CLOSURE, 2L 2W, PAVEMENT WIDENING, FOR SPEEDS > 45 MPH
701336-04	LANE CLOSURE, 2L 2W, WORK AREA IN SERIES, FOR SPEED > 45 MPH
701501-03	URBAN LANE CLOSURE, 2L 2W, UNDIVIDED
701701-04	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-03	LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
702001-06	TRAFFIC CONTROL DEVICES
720001	SIGN PANEL MOUNTING DETAILS
720006-01	SIGN PANEL ERECTION DETAILS
780001-01	TYPICAL PAVEMENT MARKINGS
814001-01	HANDHOLES
814006-01	DOUBLE HANDHOLES
862001	UNINTERRUPTABLE POWER SUPPLY (UPS)
878001-05	CONCRETE FOUNDATION DETAILS

GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED)

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES.

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 40 MM (1 1/2 INCHES) WHERE THE SPEED LIMIT IS 80 KM/H (45 MPH) OR LESS AND 25 MM (1 INCH) WHERE THE SPEED LIMIT IS GREATER THAN 80 KM/H (45 MPH), WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 75 MM (3 INCHES) MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).

BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE WITH THE "BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.

UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURE AS DETERMINED AND APPROVED IN WRITING BY THE ENGINEER OR AS PROVIDED FOR IN THE CONTRACT SPECIFICATIONS, OVERNIGHT CLOSURES SHALL NOT BE ALLOWED FOR REHABILITATION PROJECTS INVOLVING DAYTIME MILLING AND RESURFACING OPERATIONS AND CLASS D PATCHING.

PRIOR TO EMBANKMENT PLACEMENT, ALL VEGETATION, LOOSE MATERIAL, AND UNSTABLE MATERIAL SHOULD BE REMOVED TO DEPTH ENCOUNTERED AND REPLACED WITH SUITABLE EMBANKMENT MATERIAL. ANY EMBANKMENT WIDENING ON EXISTING SLOPES SHOULD BE BENCHED IN ACCORDANCE WITH ARTICLE 205.04 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE A FIELD LABORATORY FOR USE FOR ANY ON SITE TESTING BY THE ENVIRONMENTAL FIRM. NO TESTING OF ANY KIND, CONTAMINATED OR NON-CONTAMINATED FLUID OR SOLID SHALL BE PERMITTED IN THE ENGINEER'S FIELD OFFICE.

THE RESIDENT ENGINEER SHALL CONTACT MS. DEBBIE HANLON AREA TRAFFIC FIELD ENGINEER AT (847) 438-2300 A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKING.

THE CONTRACTOR SHALL BE REQUIRED TO COMPLETE ALL PAVEMENT PATCHING AFTER THE HOT-MIX ASPHALT SURFACE REMOVAL OPERATION.

ALL PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE IMPROVEMENT ACCORDING TO DISTRICT 1 TYPICAL PAVEMENT MARKING.

RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED THROUGHOUT THE IMPROVEMENT ACCORDING TO THE DISTRICT STANDARDS AS NOTED IN THE DETAIL.

THE RESIDENT ENGINEER SHALL VERIFY THE LOCATIONS OF ALL EXISTING PAVEMENT MARKINGS PRIOR TO MILLING OR RESURFACING.

PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES. THE COST OF THE PAVEMENT MARKING TAPE, TYPE III AND ITS REMOVAL SHALL BE INCLUDED IN THE COST OF SHORT TERM PAVEMENT MARKING.

ON STATE STANDARD 482001 AGGREGATE SUBGRADE 12" SPECIAL SHALL BE USED AS THE IMPROVED SUBGRADE. THE ADDITIONAL THICKNESS OF AGGREGATE SUBGRADE UNDER THE SHOULDER SHALL BE INCLUDED IN THE COST PER SQUARE YARD OF AGGREGATE SUBGRADE 12" SPECIAL

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**US 12 @ ILL 31 / TRYON GROVE RD.**  
**INDEX OF SHEETS**  
**LIST OF STATE STANDARDS**  
**PLAN NOTES**

SCALE: VERT. : NONE  
 HORIZ. : NONE  
 DATE :  
 DRAWN BY:  
 CHECKED BY:

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	111 RS-5 & 116 B-1	MCHENRY	98	3
FED. ROAD DIST. NO. 1		ILLINOIS	HIGHWAY PROJECT	

SUMMARY OF QUANTITIES			URBAN 90% FED./10% STATE	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	LOCATION 1		LOCATION 2	LOCATION 3	
				INTERSECTION HPP 1000-2A	TRAFFIC SIGNAL HPP Y031-1F	RESURFACING (3 P) F 1000	SN 056-0017 BRIDGE BHF SFTY-2A	
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	13	13				
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	47	47				
20200100	EARTH EXCAVATION	CU YD	3817	3817				
20201006	GRADING AND SHAPING SHOULDERS	UNIT	148.5	23.5		125		
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	1444	1444				
20800150	TRENCH BACKFILL	CU YD	228	228				
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	905	905				
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	8803	8803				
25000210	SEEDING, CLASS 2A	ACRE	0.2	0.2				
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	164	164				
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	164	164				
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	164	164				
25100630	EROSION CONTROL BLANKET	SQ YD	966	966				
25200110	SODDING, SALT TOLERANT	SQ YD	7837	7837				
25200200	SUPPLEMENTAL WATERING	UNIT	79	79				
28000300	TEMPORARY DITCH CHECKS	EACH	7	7				
28000500	INLET AND PIPE PROTECTION	EACH	5	5				
28100107	STONE RIPRAP, CLASS A4	SQ YD	38	38				
28200200	FILTER FABRIC	SQ YD	38	38				
31101400	SUB-BASE GRANULAR MATERIAL, TYPE B 6"	SQ YD	988	988				
35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SQ YD	270	270				
35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SQ YD	1649	1649				
35600720	HOT-MIX ASPHALT BASE COURSE WIDENING, 11"	SQ YD	3322	3322				
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	36.8	11.8		25		
40600300	AGGREGATE (PRIME COAT)	TON	186.4	59.4		127		
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGWAYS	TON	13.5	4		9.5		
40600895	CONSTRUCTING TEST STRIP	EACH	1	1				
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	365.5	55.5		262	48	
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SQ YD	216			216		

SUMMARY OF QUANTITIES			URBAN 90% FED./10% STATE	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	LOCATION 1		LOCATION 2	LOCATION 3	
				INTERSECTION HPP 1000-2A	TRAFFIC SIGNAL HPP Y031-1F	RESURFACING (3 P) F 1000	SN 056-0017 BRIDGE BHF SFTY-2A	
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	184.3	88.5		95.8		
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	210.5	210.5				
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	4105	1247		2818	40	
42001300	PROTECTIVE COAT	SQ YD	1500	1500				
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	1423			1423		
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	32123			31678	445	
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	11523	11523				
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	2051	2051				
44000300	CURB REMOVAL	FOOT	1852	1852				
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	743	743				
44000915	HOT-MIX ASPHALT SURFACE REMOVAL (DECK)	SQ YD	359				359	
44001700	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	610			610		
44002218	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 4 1/2"	SQ YD	729	355		374		
44004250	PAVED SHOULDER REMOVAL	SQ YD	3570	3570				
44201345	CLASS C PATCHES, TYPE III, 9 INCH	SQ YD	19			19		
44201753	CLASS D PATCHES, TYPE II, 9 INCH	SQ YD	431	169		262		
44201757	CLASS D PATCHES, TYPE III, 9 INCH	SQ YD	230	118		112		
44201759	CLASS D PATCHES, TYPE IV, 9 INCH	SQ YD	64	64				
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	783	783				
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	929			929		
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	4046	4046				
50102400	CONCRETE REMOVAL	CU YD	5.9				5.9	
50105220	PIPE CULVERT REMOVAL	FOOT	369	369				
50300255	CONCRETE SUPERSTRUCTURE	CU YD	28.8				28.8	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	4900				4900	
54207159	PIPE CULVERTS, TYPE 1, REINFORCED CONCRETE - ELLIPTICAL, EQUIVALENT ROUND-SIZE 24"	FOOT	62	62				
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	4	4				

\* SPECIALITY ITEMS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
SUMMARY OF QUANTITIES

5/11/2007 14:59:50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	111 RS-5 & 116 B-1	McHENRY	98	4
FED. ROAD DIST. NO. 1		ILLINOIS	HIGHWAY PROJECT	

SUMMARY OF QUANTITIES			URBAN 80% FED./20% STATE	CONSTRUCTION TYPE CODE			
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	LOCATION 1		LOCATION 2	LOCATION 3
				INTERSECTION HPP I000-2A	TRAFFIC SIGNAL HPP Y031-IF	RESURFACING (3 P) F I000	SN 056-0017 BRIDGE BHF SFTY-2A
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	5	5			
54214719	PRECAST REINFORCED CONCRETE FLARED END SECTIONS - ELLIPTICAL, EQUIVALENT ROUND-SIZE 24"	EACH	2	2			
54248130	GRATING FOR CONCRETE FLARED END SECTION EQUIVALENT ROUND-SIZE 24"	EACH	2	2			
542A0217	PIPE CULVERTS, CLASS A, TYPE 1 12"	FOOT	90	90			
542A0220	PIPE CULVERTS, CLASS A, TYPE 1 15"	FOOT	240	240			
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	111	111			
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	410	410			
550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	430	430			
60100060	CONCRETE HEADWALL FOR PIPE DRAINS	EACH	5	5			
60107600	PIPE UNDERDRAINS 4"	FOOT	780	780			
60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	EACH	9	9			
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	5	5			
60255500	MANHOLES TO BE ADJUSTED	EACH	1		1		
60260100	INLETS TO BE ADJUSTED	EACH	2		2		
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	21		21		
60300310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	2		2		
60404950	FRAMES AND GRATES, TYPE 24	EACH	6		6		
60406000	FRAMES AND LIDS, TYPE 1, OPEN LID	EACH	2		2		
60610400	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24	FOOT	3889	3889			
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	10	4	3	3	
67100100	MOBILIZATION	L SUM	1	0.4	0.3	0.3	
70101800	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1	0.5	0.3	0.2	
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	25	25			
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	14980	4050		10930	
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	963.6	891		72.6	

SUMMARY OF QUANTITIES			URBAN 80% FED./20% STATE	CONSTRUCTION TYPE CODE			
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	LOCATION 1		LOCATION 2	LOCATION 3
				INTERSECTION HPP I000-2A	TRAFFIC SIGNAL HPP Y031-IF	RESURFACING (3 P) F I000	SN 056-0017 BRIDGE BHF SFTY-2A
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	54554	15324		38886	344
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	2583	2440		143	
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	1482	437		1045	
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	246	136		110	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	225				225
* 72000100	SIGN PANEL - TYPE 1	SQ FT	30		30		
* 72000200	SIGN PANEL - TYPE 2	SQ FT	15		15		
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	963.6	891		72.6	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	53812	15324		38488	
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	2583	2440		143	
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	1482	437		1045	
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	246	136		110	
* 78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	248				248
* 78008250	POLYUREA PAVEMENT MARKING TYPE I - LINE 12"	FOOT	30				30
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	403	138		265	
* 78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	403	138		265	
* 81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	990		990		
* 81000700	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	120		120		
* 81001000	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	166		166		
* 81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	66		66		
* 81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	152		152		
* 81400100	HANDHOLE	EACH	7		7		
* 81400200	HEAVY-DUTY HANDHOLE	EACH	4		4		

\* SPECIALITY ITEMS

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION SUMMARY OF QUANTITIES
NAME	DATE	

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	111 RS-5 & 116 B-I	McHENRY	98	5
FED. ROAD DIST. NO. 1		ILLINOIS	HIGHWAY PROJECT	

SUMMARY OF QUANTITIES			URBAN 80% FED / 20% STATE	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		TOTAL QUANTITIES	LOCATION 1		LOCATION 2	LOCATION 3
					INTERSECTION HPP I000-2A	TRAFFIC SIGNAL HPP Y031-1F	RESURFACING (3 P) F I000	SN 056-0017 BRIDGE BHF SFTY-2A
* 81400300	DOUBLE HANDHOLE	EACH	1		1			
* 81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	1281		1281			
* 85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1		1			
* 87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	850		850			
* 87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1545		1545			
* 87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2000		2000			
* 87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	12		12			
* 87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3		3			
* 87700220	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1		1			
* 87700230	STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1		1			
* 87700250	STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	1		1			
* 87700270	STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	1		1			
* 87800100	CONCRETE FOUNDATION, TYPE A	FOOT	16		16			
* 87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4		4			
* 87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	30		30			
* 87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	30		30			
* 88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4		4			
* 88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4		4			
* 88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4		4			
* 88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	8		8			
* 88500100	INDUCTIVE LOOP DETECTOR	EACH	10		10			
* 88600100	DETECTOR LOOP, TYPE I	FOOT	528		528			
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	123			123		

SUMMARY OF QUANTITIES			URBAN 80% FED / 20% STATE	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		TOTAL QUANTITIES	LOCATION 1		LOCATION 2	LOCATION 3
					INTERSECTION HPP I000-2A	TRAFFIC SIGNAL HPP Y031-1F	RESURFACING (3 P) F I000	SN 056-0017 BRIDGE BHF SFTY-2A
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1		1			
* 89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1		1			
* 89502380	REMOVE EXISTING HANDHOLE	EACH	9	9				
* 89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	9	9				
X0321468	PLUG EXISTING DECK DRAINS	EACH	11				11	
X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	645	421		96	128	
X0322944	BRIDGE DECK THIN POLYMER OVERLAY 3/8"	SQ YD	359				359	
X0323973	SEDIMENT CONTROL, SILT FENCE	FOOT	3655	3655				
X0323974	SEDIMENT CONTROL, SILT FENCE MAINTENANCE	FOOT	3655	3655				
X0325303	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	160				160	
X0325305	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	491.5				491.5	
X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	3	3				
X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	27	27				
X4067107	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, NS0	TON	2181	832		1349		
* X8050015	SERVICE INSTALLATION - POLE MOUNTED	EACH	1		1			
X8620020	UNINTERRUPTIBLE POWER SUPPLY	EACH	1		1			
* X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	580		580			
Z0012100	CONCRETE BRIDGE DECK SCARIFICATION (1/4 INCH)	SQ YD	359				359	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1				
Z0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	21				21	
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	24			24		
Z0030240	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 2	EACH	2				2	
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1			1		
X0300635	PLANTERS	EACH	4				4	
X0325737	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1		1			
Z0001055	AGGREGATE SUBGRADE 12" SPECIAL	SQ YD	6650	6650				

\* SPECIALITY ITEMS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
SUMMARY OF QUANTITIES

5/11/2007 8:48:56 AM

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	111 RS-5 & 116 B-1	McHENRY	98	6
FED. ROAD DIST. NO. 1		ILLINOIS	HIGHWAY PROJECT	

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE			
CODE NO	ITEM	UNIT		LOCATION 1		LOCATION 2	LOCATION 3
				INTERSECTION	TRAFFIC SIGNAL	RESURFACING (3 P)	SN 056-0017 BRIDGE
			1000-2A	Y031-1F	I000	SFTY-2A	
X7030104	WET REFLECTIVE TEMPORARY TAPE TYPE III - LINE 4'	FOOT	3426				3426
© Z0076600	TRAINEES	HOUR	2000	2000			

SUMMARY OF QUANTITIES				TOTAL QUANTITIES	CONSTRUCTION TYPE CODE			
CODE NO	ITEM	UNIT			LOCATION 1		LOCATION 2	LOCATION 3
					INTERSECTION	TRAFFIC SIGNAL	RESURFACING (3 P)	SN 056-0017 BRIDGE
				1000-2A	Y031-1F	I000	SFTY-2A	

© Y080  
\* SPECIALITY ITEMS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
SUMMARY OF QUANTITIES

5/11/2007 11:28:31 AM C:\PROJECTS\60A91\112899.DWG

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	**	MCHENRY	98	7
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

**LEGEND:**

- ① EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, ± 8 1/2"
- ② EXISTING HMA SURFACE COURSE, ± 5 1/2"
- ③ EXISTING HMA SURFACE COURSE, ± 3"
- ④ EXISTING HMA SURFACE COURSE, ± 4"
- ⑤ EXISTING HMA SHOULDER
- ⑥ EXISTING AGGREGATE SHOULDER
- ⑦ EXISTING AGGREGATE SUBBASE,
- ⑧ EXISTING COMBINATION CONCRETE CURB AND GUTTER
- ⑨ PROP. HMA SURFACE REMOVAL, 2 1/2"
- ⑩ PROP. HMA SURFACE COURSE, MIX "D", N70 1 1/2"
- ⑪ PROP. POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 1"
- ⑫ PROP. HMA BASE COURSE WIDENING, 11" (3 LIFTS)
- ⑬ PROP. AGGREGATE SUBGRADE, 12" SPECIAL
- ⑭ PROP. HMA SHOULDER, 8"
- ⑮ PROP. AGGREGATE SHOULDER, TYPE B, 6"
- ⑯ PROP. COMBINATION CURB AND GUTTER, TYPE M-6.24
- ⑰ PROP. SUBBASE GRANULAR MATERIAL TYPE B, 6"
- ⑱ PROP. HMA SURFACE REMOVAL, 2 1/4"
- ⑲ PROP. AGGREGATE WEDGE SHOULDER, TYPE B
- ⑳ PROP. POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- ㉑ PROP. HMA SURFACE REMOVAL, 1 1/2"

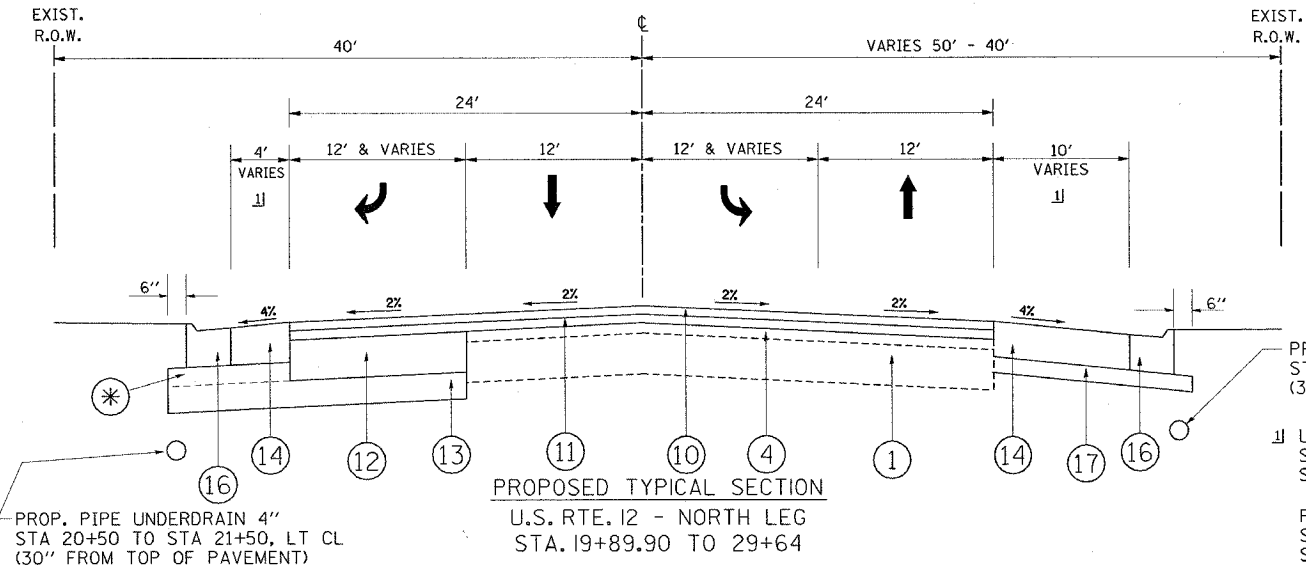
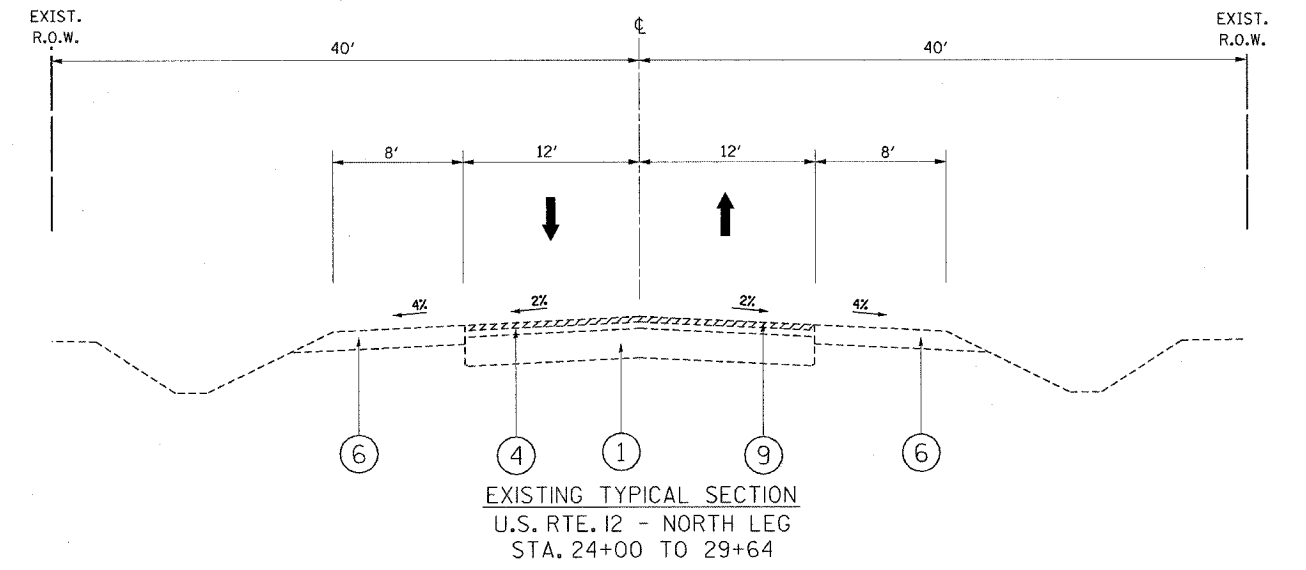
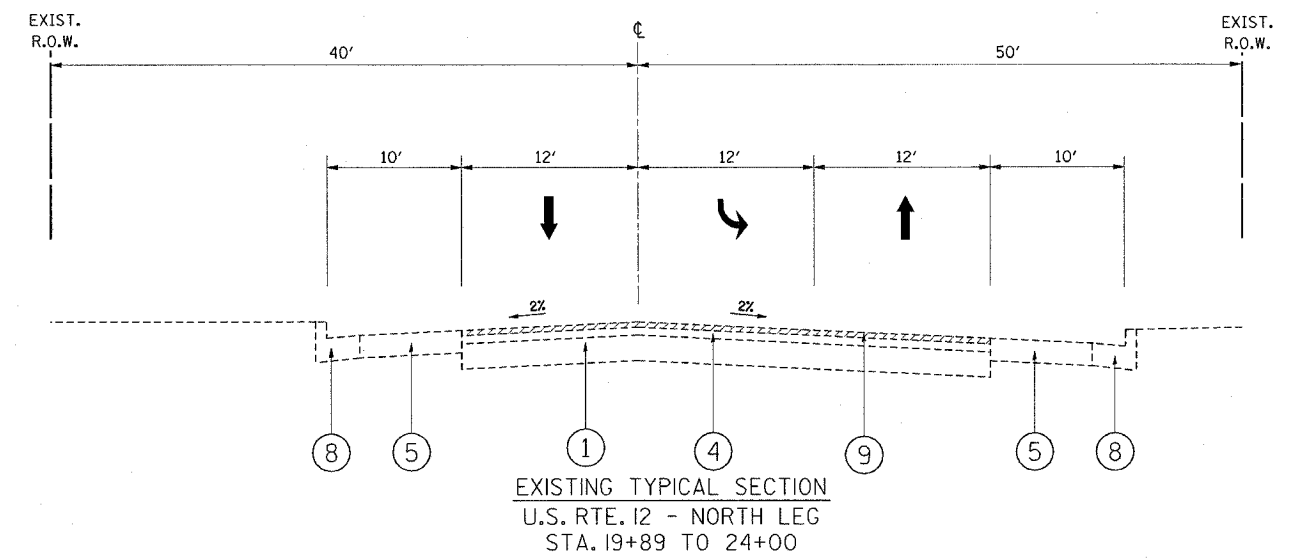
**HOT-MIX ASPHALT MIXTURE REQUIREMENTS**

MIXTURE TYPE	AC TYPE	VOIDS
<b>PAVEMENT WIDENING</b>		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2" (IL 9.5mm)	PG 64-22	4% @ 70 GYR
POLYMERIZED LEVELING BINDER (MACHINE METHOD) IL-4.75, N50, 1" & 3/4"	SBS/SBR PG 76-28/-22	4% @ 50 GYR.
HOT-MIX ASPHALT BASE COURSE WIDENING, (HMA BINDER IL-19 mm), 11"	PG 64-22**	4% @ 70 GYR.
<b>DRIVEWAYS</b>		
HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50, 2" (IL 9.5mm)	PG 64-22	4% @ 50 GYR.
HOT-MIX ASPHALT BASE COURSE, (6" & 8") (HMA BINDER IL-19mm) (PE & CE)	PG 64-22**	4% @ 50 GYR.
<b>PATCHING</b>		
CLASS D PATCHES, (HMA BINDER IL-19mm)	PG 64-22**	4% @ 70 GYR.
HOT-MIX ASPHALT REPLACEMENT OVER PATCHES, (HMA BINDER IL-19 mm)	PG 64-22**	4% @ 70 GYR.
<b>SHOULDER</b>		
HOT-MIX ASPHALT SHOULDER, 8"	PG 64-22**	2% @ 30 GYR.

- THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURES IS 112 LBS/SY/IN  
 \*\* WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**EXISTING AND PROPOSED  
 TYPICAL SECTION  
 U.S. RTE. 12 - NORTH LEG  
 STA. 19+89.90 TO STA. 29+64**  
 SCALE: VERT. HORIZ.  
 DATE: DRAWN BY: CHECKED BY:



PROP. PIPE UNDERDRAIN 4"  
 STA. 26+50 TO STA. 27+50, RT. CL  
 (30" FROM TOP OF PAVEMENT)

⌞ USE 8' SHOULDER (5' PAVED, 3' STABILIZED AGGREGATE):  
 STA. 27+16 TO STA. 29+64 RT.  
 STA. 25+96 TO STA. 29+64 LT.

PROPOSED M-6.24 CURB AND GUTTER:  
 STA. 19+89.90 TO STA. 27+16 RT.  
 STA. 19+89.90 TO STA. 25+96 LT.

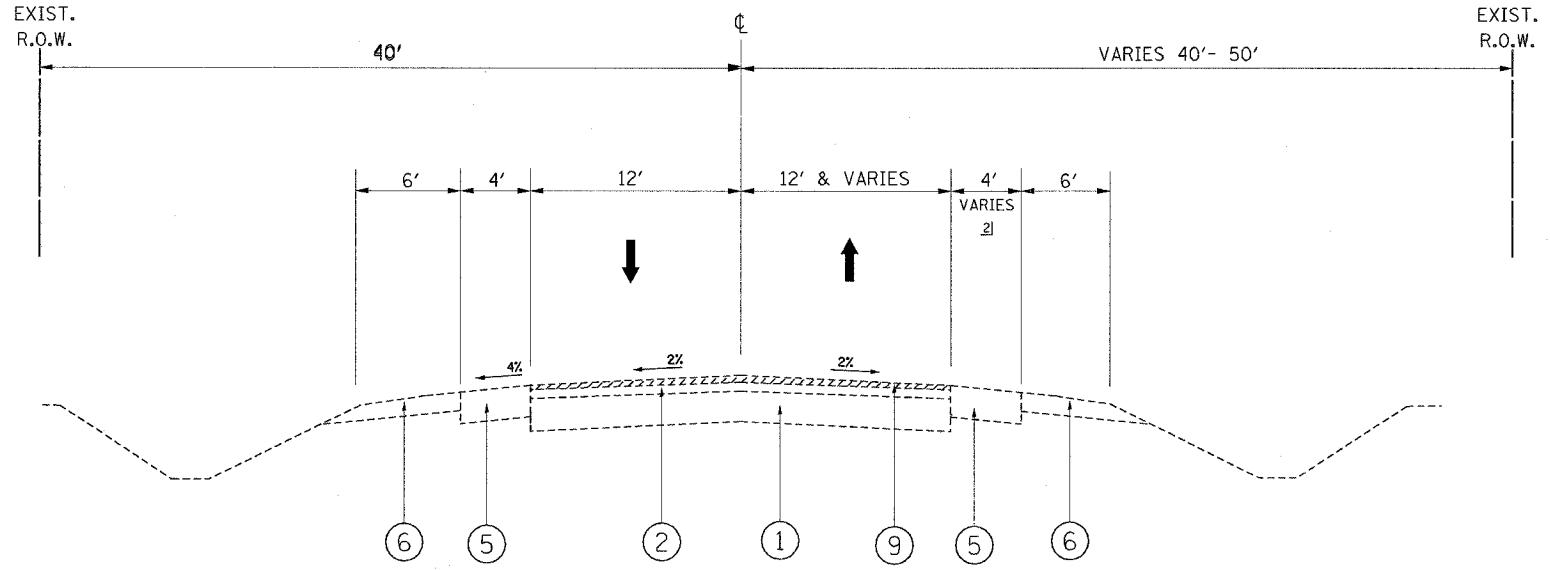
⊛ ADDITIONAL THICKNESS OF AGGREGATE SUBGRADE SHALL BE INCIDENTAL TO AGGREGATE SUBGRADE 12" SPECIAL

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 PLOT SCALE = 8.83000000 / IN.  
 USER NAME = midjia

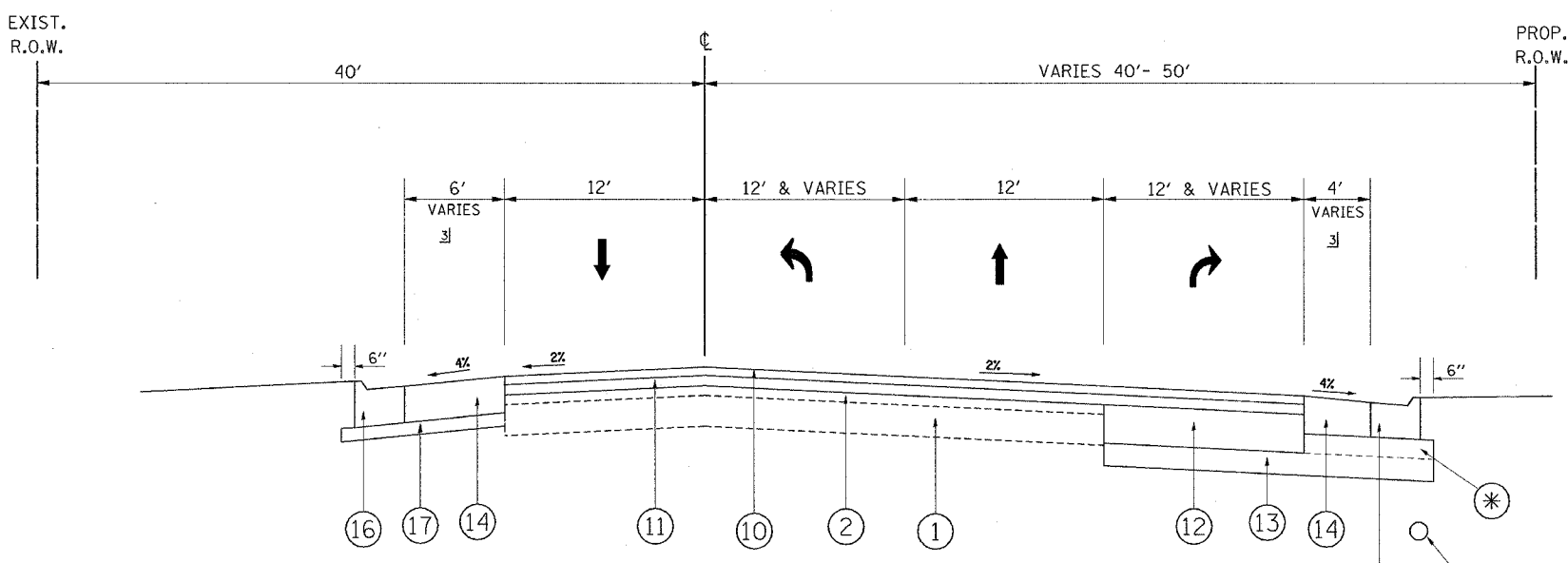
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	**	MCHENRY	98	8
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

**LEGEND:**

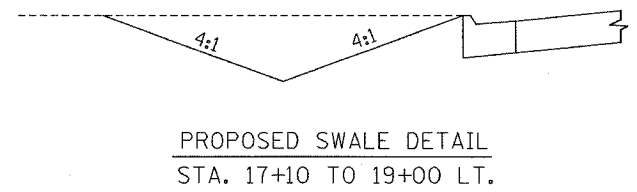
- ① EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, ± 8 1/2"
- ② EXISTING HMA SURFACE COURSE, ± 5 1/2"
- ③ EXISTING HMA SURFACE COURSE, ± 3"
- ④ EXISTING HMA SURFACE COURSE, ± 4"
- ⑤ EXISTING HMA SHOULDER
- ⑥ EXISTING AGGREGATE SHOULDER
- ⑦ EXISTING AGGREGATE SUBBASE,
- ⑧ EXISTING COMBINATION CONCRETE CURB AND GUTTER
- ⑨ PROP. HMA SURFACE REMOVAL, 2 1/2"
- ⑩ PROP. HMA SURFACE COURSE, MIX "D", N70 1 1/2"
- ⑪ PROP. POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 1"
- ⑫ PROP. HMA BASE COURSE WIDENING, 11" (3 LIFTS)
- ⑬ PROP. AGGREGATE SUBGRADE, 12" SPECIAL
- ⑭ PROP. HMA SHOULDER, 8"
- ⑮ PROP. AGGREGATE SHOULDER, TYPE B, 6"
- ⑯ PROP. COMBINATION CURB AND GUTTER, TYPE M-6.24
- ⑰ PROP. SUBBASE GRANULAR MATERIAL TYPE B, 6"
- ⑱ PROP. HMA SURFACE REMOVAL, 2 1/4"
- ⑲ PROP. AGGREGATE WEDGE SHOULDER, TYPE B
- ⑳ PROP. POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- ㉑ PROP. HMA SURFACE REMOVAL, 1 1/2"



**EXISTING TYPICAL SECTION**  
 IL RTE. 31 - SOUTH LEG  
 STA. 10+00 TO 19+89.9  
 10' PAVED SHOULDER BEGINS STA. 17+00 RT.



**PROPOSED TYPICAL SECTION**  
 IL RTE. 31 - SOUTH LEG  
 STA. 10+00 TO 19+89.90



10' SHOULDER (5' PAVED, 3' STABILIZED AGGREGATE):  
 STA. 10+00 TO STA. 13+50 RT.  
 STA. 10+00 TO STA. 15+23 LT.

PROPOSED M-6.24 CURB AND GUTTER:  
 STA. 13+50 TO STA. 19+89.90 RT.  
 STA. 15+23 TO STA. 19+89.90 LT.

\* ADDITIONAL THICKNESS OF AGGREGATE SUBGRADE SHALL BE INCIDENTAL TO AGGREGATE SUBGRADE 12" SPECIAL

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**EXISTING & PROPOSED TYPICAL SECTION**  
**ILL 31 ROAD - SOUTH LEG**  
**STA. 10+00 TO STA. 19+89.90**

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE \_\_\_\_\_

DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

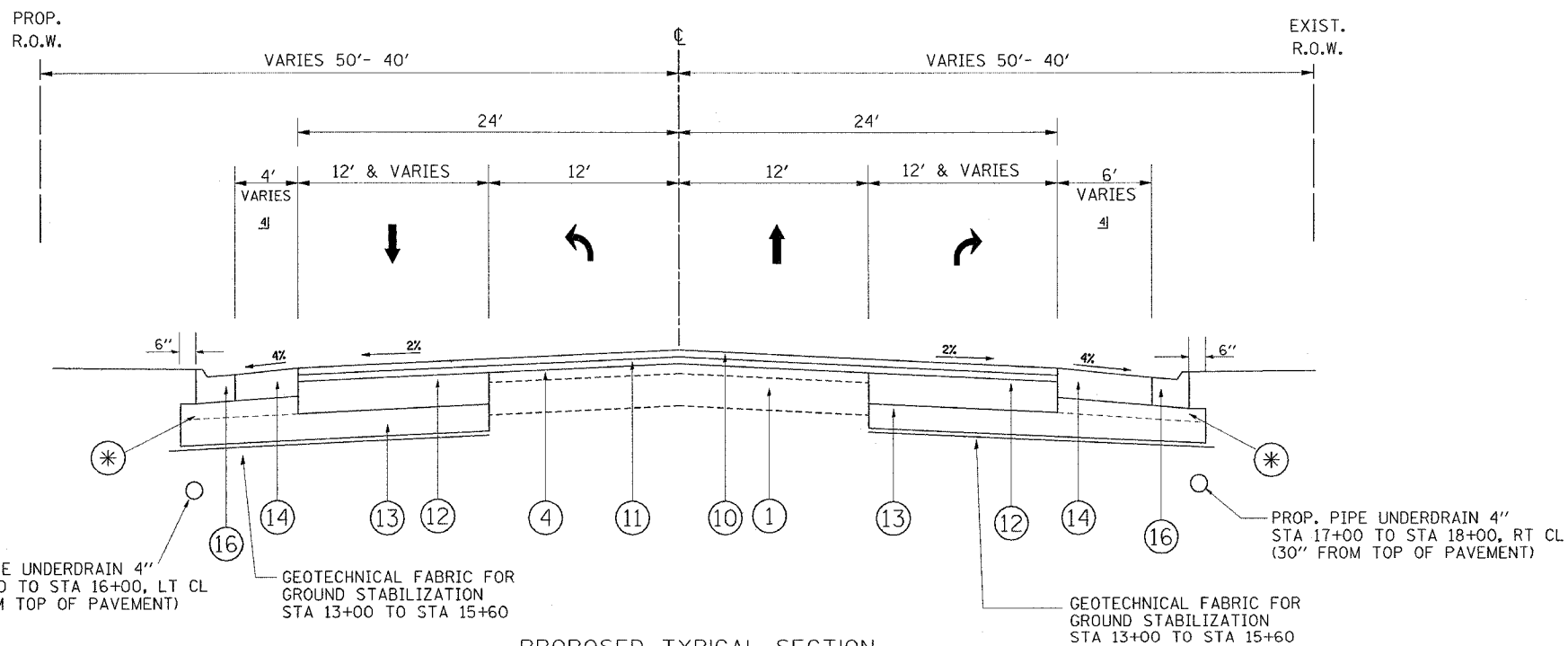
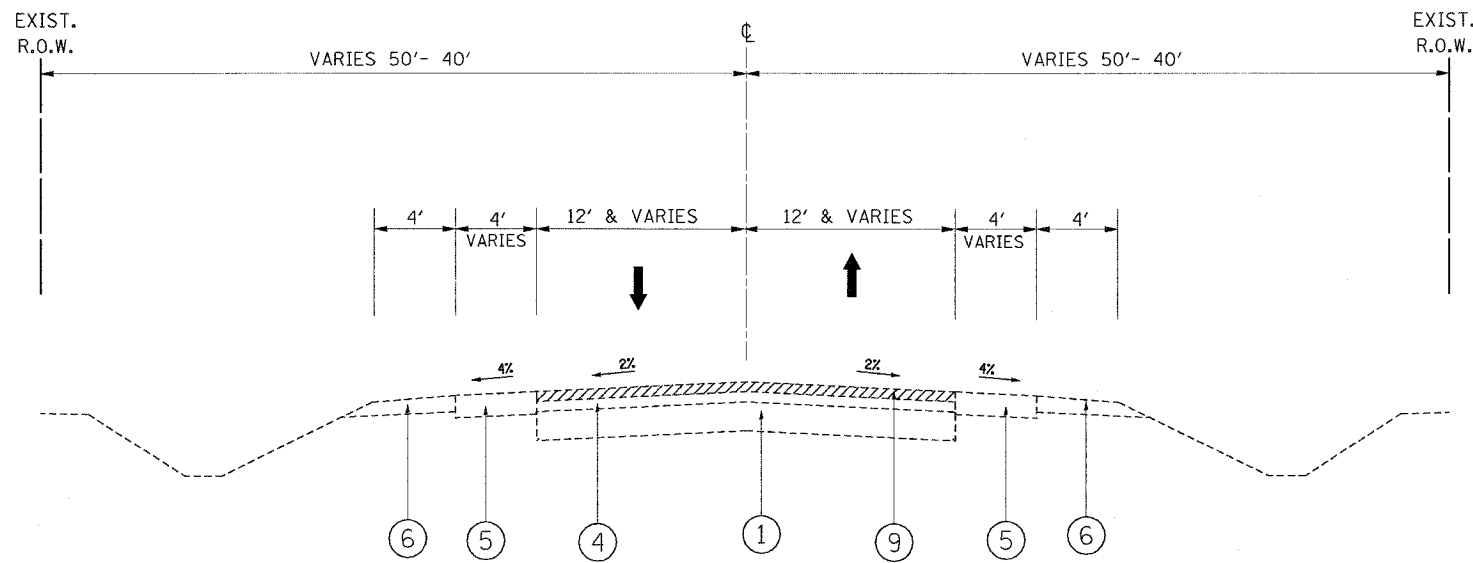
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	**	MCHENRY	98	9
STA. TO STA.				
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

**LEGEND:**

- ① EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, ± 8 1/2"
- ② EXISTING HMA SURFACE COURSE, ± 5 1/2"
- ③ EXISTING HMA SURFACE COURSE, ± 3"
- ④ EXISTING HMA SURFACE COURSE, ± 4"
- ⑤ EXISTING HMA SHOULDER
- ⑥ EXISTING AGGREGATE SHOULDER
- ⑦ EXISTING AGGREGATE SUBBASE,
- ⑧ EXISTING COMBINATION CONCRETE CURB AND GUTTER
- ⑨ PROP. HMA SURFACE REMOVAL, 2 1/2"
- ⑩ PROP. HMA SURFACE COURSE, MIX "D", N70 1 1/2"
- ⑪ PROP. POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 1"
- ⑫ PROP. HMA BASE COURSE WIDENING, 11" (3 LIFTS)
- ⑬ PROP. AGGREGATE SUBGRADE, 12" SPECIAL
- ⑭ PROP. HMA SHOULDER, 8"
- ⑮ PROP. AGGREGATE SHOULDER, TYPE B, 6"
- ⑯ PROP. COMBINATION CURB AND GUTTER, TYPE M-6.24
- ⑰ PROP. SUBBASE GRANULAR MATERIAL TYPE B, 6"
- ⑱ PROP. HMA SURFACE REMOVAL, 2 1/4"
- ⑲ PROP. AGGREGATE WEDGE SHOULDER, TYPE B
- ⑳ PROP. POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- ㉑ PROP. HMA SURFACE REMOVAL, 1 1/2"



PROP. PIPE UNDERDRAIN 4"  
STA 15+00 TO STA 16+00, LT CL  
(30" FROM TOP OF PAVEMENT)

GEOTECHNICAL FABRIC FOR  
GROUND STABILIZATION  
STA 13+00 TO STA 15+60

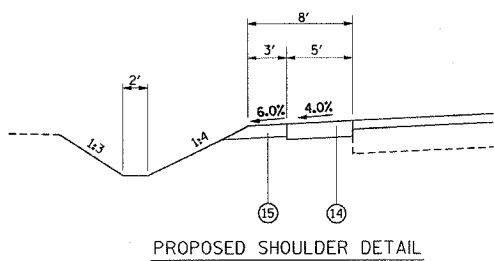
GEOTECHNICAL FABRIC FOR  
GROUND STABILIZATION  
STA 13+00 TO STA 15+60

PROP. PIPE UNDERDRAIN 4"  
STA 17+00 TO STA 18+00, RT CL  
(30" FROM TOP OF PAVEMENT)

- ④ USE 8' SHOULDER (5' PAVED, 3' STABILIZED AGGREGATE):  
STA. 15+74 TO STA. 19+40 RT.  
STA. 16+52 TO STA. 19+40 LT.
- ④ USE 6' SHOULDER (3' PAVED, 3' STABILIZED AGGREGATE):  
STA. 14+60 TO STA. 15+98 LT.

PROPOSED M-6.24 CURB AND GUTTER:  
STA. 10+00 TO STA. 14+60 LT.  
STA. 10+00 TO STA. 15+74 RT.

⊛ ADDITIONAL THICKNESS OF AGGREGATE  
SUBGRADE SHALL BE INCIDENTAL TO  
AGGREGATE SUBGRADE 12" SPECIAL



REVISIONS	
NAME	DATE

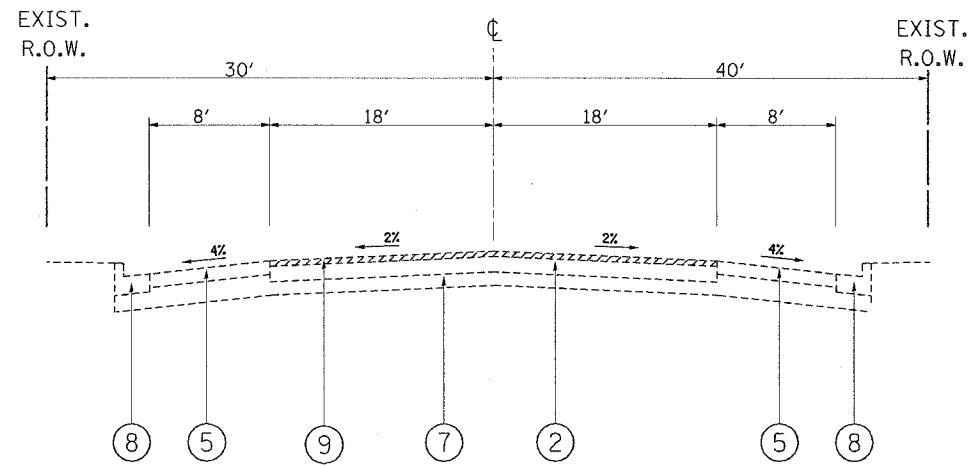
ILLINOIS DEPARTMENT OF TRANSPORTATION

**EXISTING AND PROPOSED  
TYPICAL SECTION  
U.S. RTE. 12 - EAST LEG  
STA. 10+00 'E' TO 19+40 'E'**

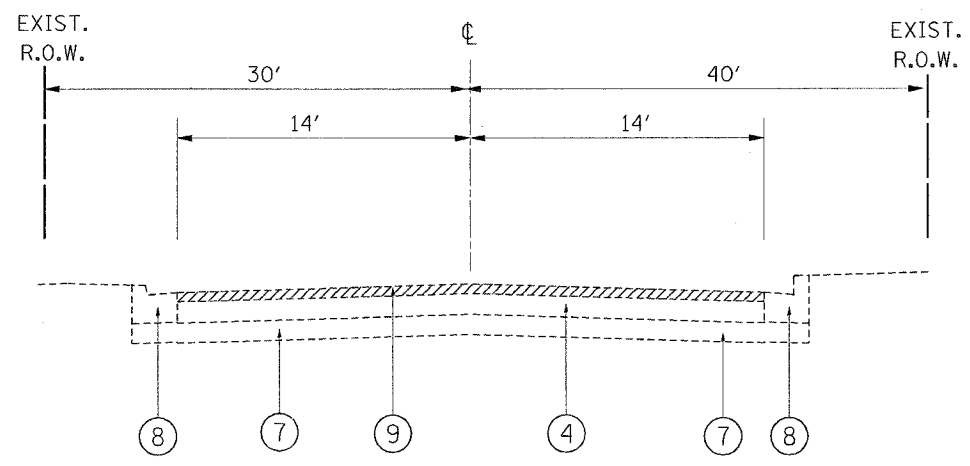
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DATE

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	**	MCHENRY	98	10
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



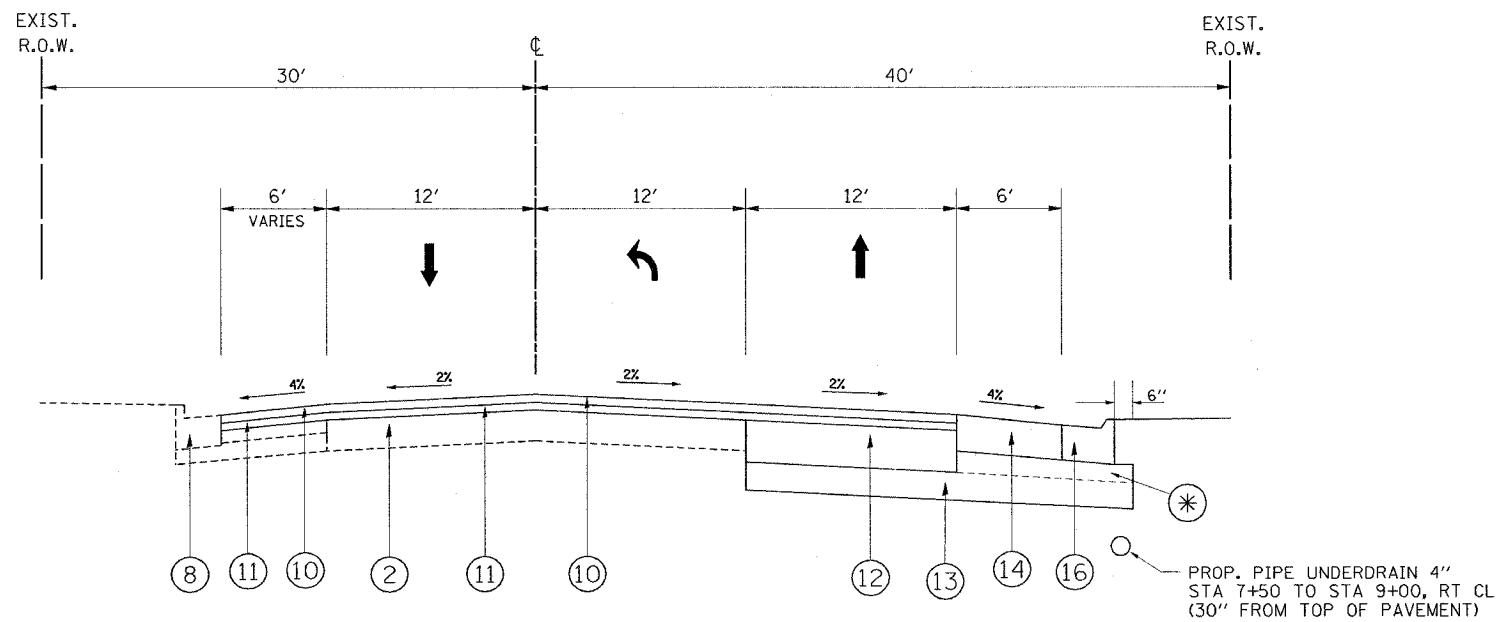
EXISTING TYPICAL SECTION  
TRYON GROVE ROAD  
STA. 4+92 'W' TO 7+50 'W'



EXISTING TYPICAL SECTION  
TRYON GROVE ROAD  
STA. 7+50 'W' TO 10+00 'W'

LEGEND:

- ① EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, ± 8 1/2"
- ② EXISTING HMA SURFACE COURSE, ± 5 1/2"
- ③ EXISTING HMA SURFACE COURSE, ± 3"
- ④ EXISTING HMA SURFACE COURSE, ± 4"
- ⑤ EXISTING HMA SHOULDER
- ⑥ EXISTING AGGREGATE SHOULDER
- ⑦ EXISTING AGGREGATE SUBBASE,
- ⑧ EXISTING COMBINATION CONCRETE CURB AND GUTTER
- ⑨ PROP. HMA SURFACE REMOVAL, 2 1/2"
- ⑩ PROP. HMA SURFACE COURSE, MIX "D", N70 1 1/2"
- ⑪ PROP. POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 1"
- ⑫ PROP. HMA BASE COURSE WIDENING, IL-19 mm, 11" (3 LIFTS)
- ⑬ PROP. AGGREGATE SUBGRADE, 12" SPECIAL
- ⑭ PROP. HMA SHOULDER, 8"
- ⑮ PROP. AGGREGATE SHOULDER, TYPE B, 6"
- ⑯ PROP. COMBINATION CURB AND GUTTER, TYPE M-6.24
- ⑰ PROP. SUBBASE GRANULAR MATERIAL TYPE B, 6"
- ⑱ PROP. HMA SURFACE REMOVAL, 2 1/4"
- ⑲ PROP. AGGREGATE WEDGE SHOULDER, TYPE B
- ⑳ PROP. POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- ㉑ PROP. HMA SURFACE REMOVAL, 1 1/2"



PROPOSED TYPICAL SECTION  
TRYON GROVE ROAD - WEST LEG  
STA. 4+92 'W' TO 10+00 'W'

\* ADDITIONAL THICKNESS OF AGGREGATE SUBGRADE SHALL BE INCIDENTAL TO AGGREGATE SUBGRADE 12" SPECIAL

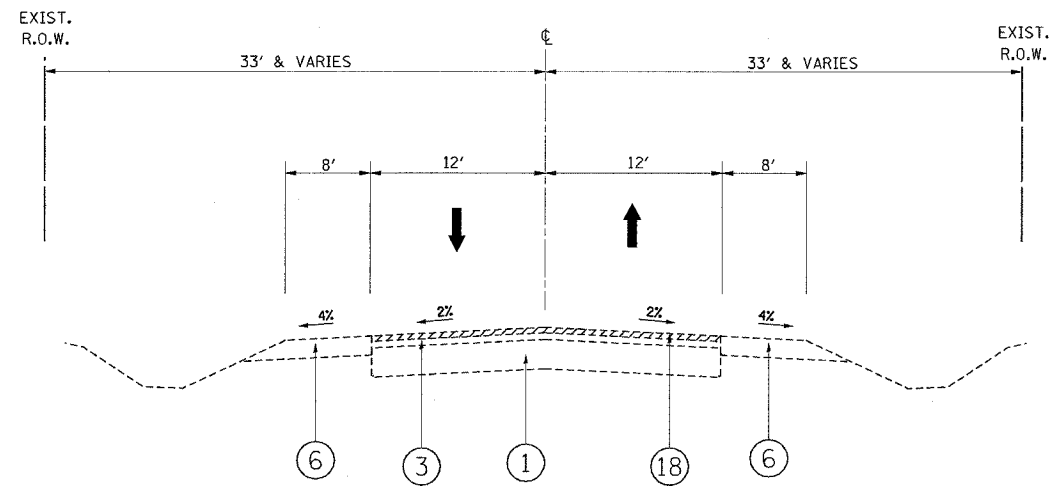
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**EXISTING & PROPOSED TYPICAL SECTION**  
**TRYON GROVE ROAD - WEST LEG**  
**STA. 4+92 'W' TO 10+00 'W'**

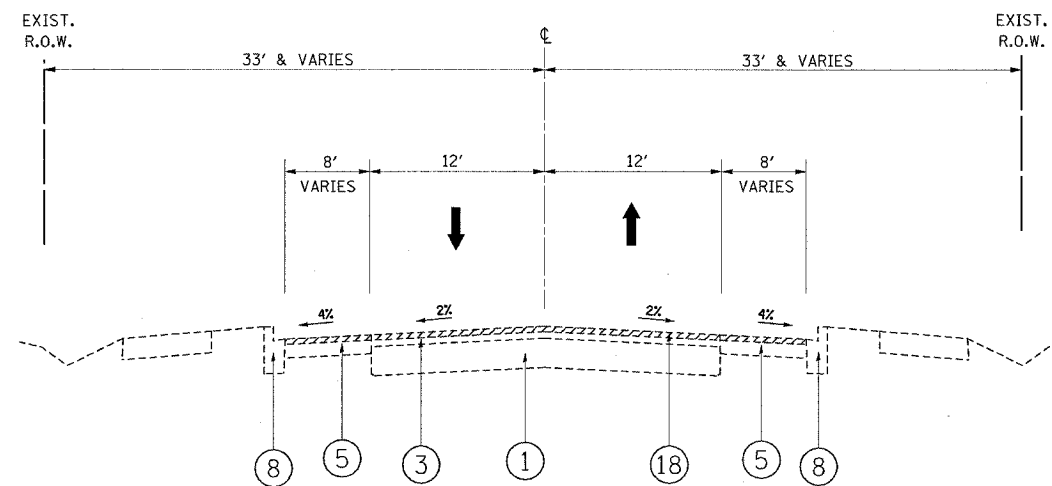
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DATE

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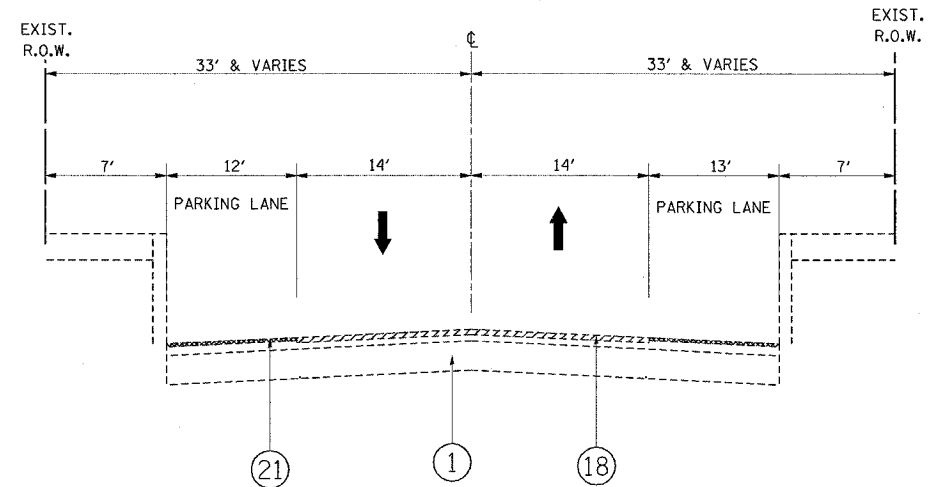
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	**	MCHENRY	98	11
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



EXISTING TYPICAL SECTION  
U.S. RTE. 12 - NORTH LEG  
STA. 29+64 TO 95+80



EXISTING TYPICAL SECTION  
U.S. RTE. 12 - NORTH LEG  
STA. 95+80 TO 107+00  
STA. 114+00 TO 125+00



EXISTING TYPICAL SECTION  
U.S. RTE. 12 - NORTH LEG  
STA. 107+00 TO 114+00

LEGEND:

- ① EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, ± 8 1/2"
- ② EXISTING HMA SURFACE COURSE, ± 5 1/2"
- ③ EXISTING HMA SURFACE COURSE, ± 3"
- ④ EXISTING HMA SURFACE COURSE, ± 4"
- ⑤ EXISTING HMA SHOULDER
- ⑥ EXISTING AGGREGATE SHOULDER
- ⑦ EXISTING AGGREGATE SUBBASE,
- ⑧ EXISTING COMBINATION CONCRETE CURB AND GUTTER
- ⑨ PROP. HMA SURFACE REMOVAL, 2 1/2"
- ⑩ PROP. HMA SURFACE COURSE, MIX "D", N70 1 1/2"
- ⑪ PROP. POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 1"
- ⑫ PROP. HMA BASE COURSE WIDENING, 11" (3 LIFTS)
- ⑬ PROP. AGGREGATE SUBGRADE, 12" SPECIAL
- ⑭ PROP. HMA SHOULDER, 8"
- ⑮ PROP. AGGREGATE SHOULDER, TYPE B, 6"
- ⑯ PROP. COMBINATION CURB AND GUTTER, TYPE M-6.24
- ⑰ PROP. SUBBASE GRANULAR MATERIAL TYPE B, 6"
- ⑱ PROP. HMA SURFACE REMOVAL, 2 1/4"
- ⑲ PROP. AGGREGATE WEDGE SHOULDER, TYPE B
- ⑳ PROP. POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- ㉑ PROP. HMA SURFACE REMOVAL, 1 1/2"

PLOT DATE = 5/15/2007  
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 USER NAME = mdjlp

REVISIONS	
NAME	DATE

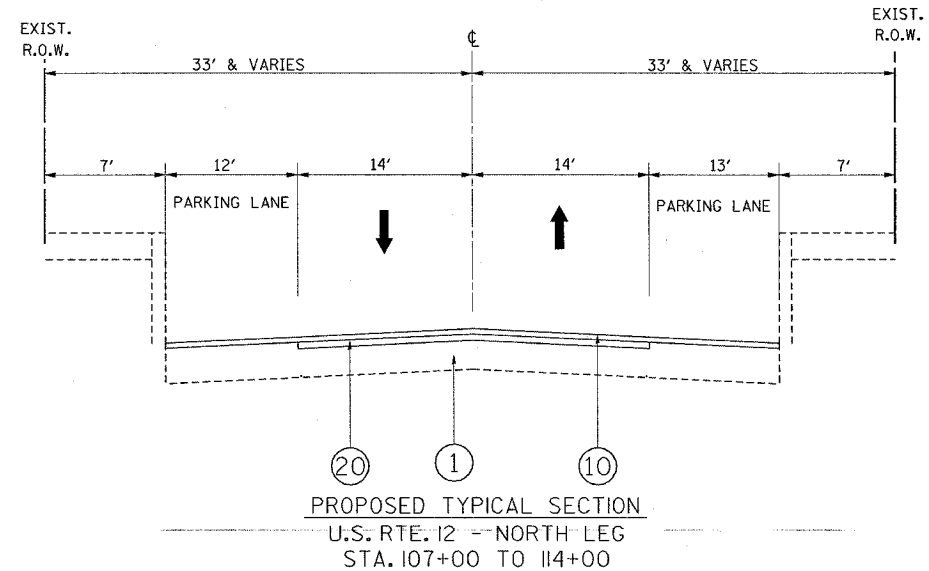
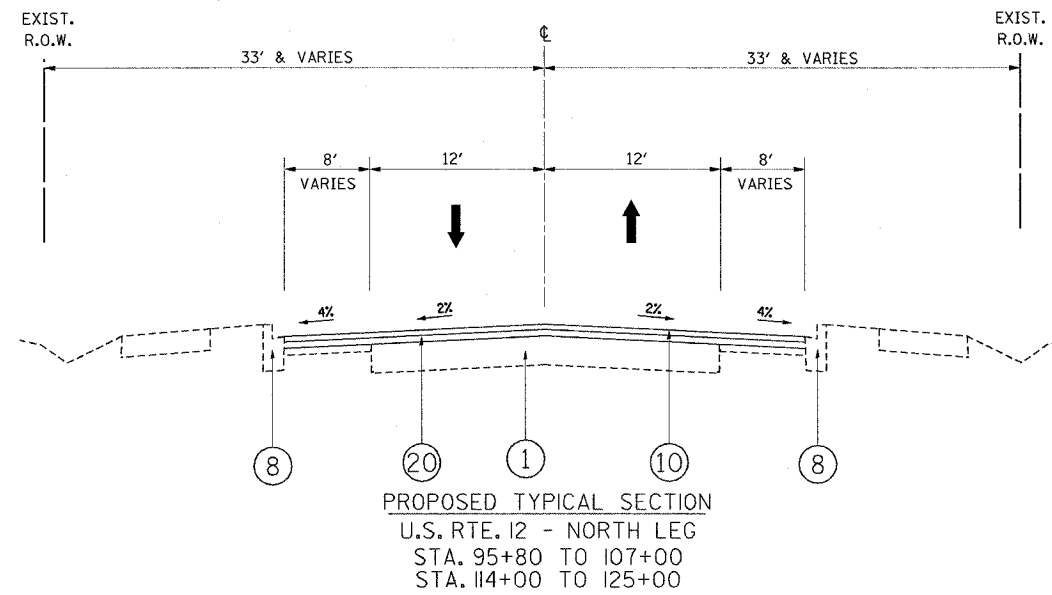
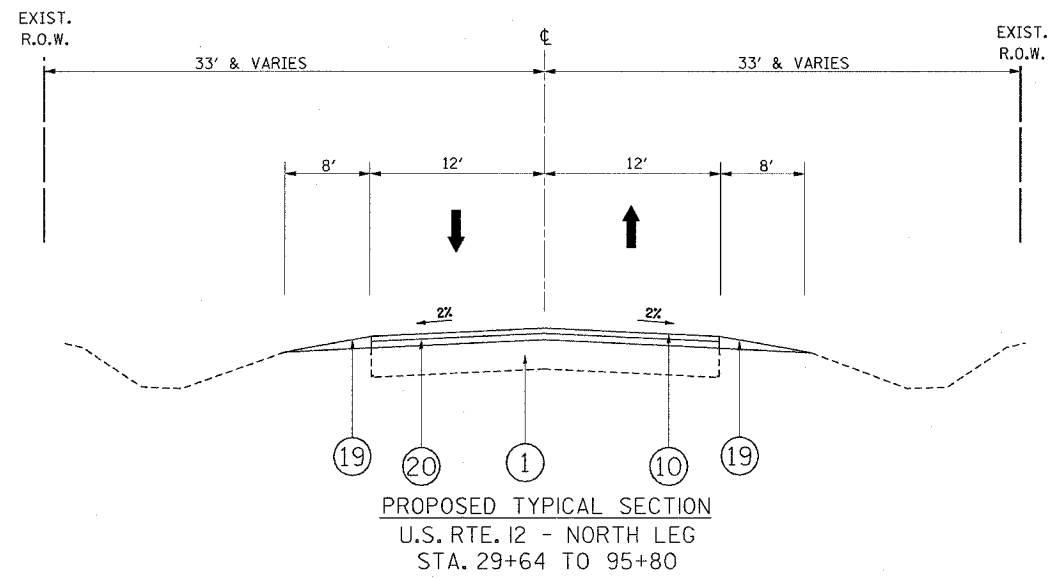
ILLINOIS DEPARTMENT OF TRANSPORTATION

**EXISTING TYPICAL SECTION**  
**U.S. RTE. 12 - NORTH LEG**  
**STA. 29+64 TO STA. 125+00**  
**LOCATION 2**

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_

DATE \_\_\_\_\_ DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	**	MCHENRY	98	12
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



**LEGEND:**

- ① EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, ± 8 1/2"
- ② EXISTING HMA SURFACE COURSE, ± 5 1/2"
- ③ EXISTING HMA SURFACE COURSE, ± 3"
- ④ EXISTING HMA SURFACE COURSE, ± 4"
- ⑤ EXISTING HMA SHOULDER
- ⑥ EXISTING AGGREGATE SHOULDER
- ⑦ EXISTING AGGREGATE SUBBASE,
- ⑧ EXISTING COMBINATION CONCRETE CURB AND GUTTER
- ⑨ PROP. HMA SURFACE REMOVAL, 2 1/2"
- ⑩ PROP. HMA SURFACE COURSE, MIX "D", N70 1 1/2"
- ⑪ PROP. POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 1"
- ⑫ PROP. HMA BASE COURSE WIDENING, 11" (3 LIFTS)
- ⑬ PROP. AGGREGATE SUBGRADE, 12" SPECIAL
- ⑭ PROP. HMA SHOULDER, 8"
- ⑮ PROP. AGGREGATE SHOULDER, TYPE B, 6"
- ⑯ PROP. COMBINATION CURB AND GUTTER, TYPE M-6.24
- ⑰ PROP. SUBBASE GRANULAR MATERIAL TYPE B, 6"
- ⑱ PROP. HMA SURFACE REMOVAL, 2 1/4"
- ⑲ PROP. AGGREGATE WEDGE SHOULDER, TYPE B
- ⑳ PROP. POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- ㉑ PROP. HMA SURFACE REMOVAL, 1 1/2"

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**PROPOSED TYPICAL SECTION  
U.S. RTE. 12 - NORTH LEG  
STA. 29+64 TO STA. 125+00  
LOCATION 2**

SCALE: VERT. DATE  
HORIZ.

DRAWN BY  
CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	**	MCHENRY	98	13
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
** 111 RS-5 & 116 B-1				

DRIVEWAY PAVEMENT					
LOCATION	OFFSET	DRIVEWAY PAVEMENT REMOVAL (SQ. YD.)	HMA BASE COURSE, 6" (P.E.)(SQ. YD.)	HMA BASE COURSE, 8" (C.E.)(SQ. YD.)	HMA SURFACE COURSE, MIX "C", N50, 2" (TON)
IL 31					
16+29	RT			16	1.8
16+80	LT	55		71	8
17+35	RT			31	3.5
18+08	RT	71		35	4
18+80	RT	72			
US 12 (N)					
20+69	LT	57			
21+00	RT	65		35	4
21+09	LT	57		41	4.6
21+62	LT	60		41	4.6
22+00	RT	63		68	7.62
22+18	LT	60		41	4.6
22+65	RT	62		76	8.5
22+71	LT	58		41	4.6
23+32	RT	117		131	14.7
23+52	LT	76		77	8.6
24+43	LT	65		94	10.5
25+20	LT	77		107	12
25+44	RT	161		73	8.2
26+60	RT	124		68	7.62
28+20	RT	57	72		8.1
28+81	RT	80	81		9.1
TRYON GROVE RD.					
6+69	RT	24		18	2
8+41	LT			36	4
US 12 (E)					
11+10	LT	65		57	6.4
11+10	RT	69			
11+80	RT	70		81	9.1
11+92	LT	65		118	13.2
12+48	RT	70		92	10.3
13+15	RT	67			
13+19	LT	92		118	13.2
14+40	RT	35		41	4.6
15+22	RT			37	4.1
16+24	LT	57	80		9
TOTAL =		2051	233	1644	210.5

HOT-MIX ASPHALT SHOULDERS, 8"			
STATION - STATION	OFFSET	WIDTH (FT)	AREA (SQ. YD.)
IL 31			
10+00 - 15+26	LT	5	287
10+00 - 13+50	RT	5	196
15+26 - 19+44	LT	6	283
13+50 - 19+44	RT	4	273
US 12 (N)			
20+33 - 25+85	LT	4	287
20+33 - 27+15	RT	10 - 4	558
25+85 - 29+64	LT	5	210
27+15 - 29+64	RT	5	158
TRYON GROVE RD.			
4+92 - 9+64	LT	6 - 11	473
4+92 - 9+64	RT	6	320
US 12 (E)			
10+45 - 14+60	LT	4	193
10+45 - 15+74	RT	6	332
14+60 - 19+40	LT	5	275
15+74 - 19+40	RT	5	205
TOTAL =			4050

AGGREGATE SHOULDERS, TYPE B, 6"			
STATION - STATION	OFFSET	WIDTH (FT)	AREA (SQ. YD.)
IL 31			
10+00 - 15+26	LT	3	175
10+00 - 13+50	RT	3	117
US 12 (N)			
25+85 - 29+64	LT	3	126
27+15 - 29+64	RT	3	83
US 12 (E)			
14+60 - 19+40	LT	3	160
15+74 - 19+40	RT	3	122
TOTAL =			783

PIPE CULVERT REMOVAL		
STATION	OFFSET	LENGTH (FT)
IL 31		
16+36	28' RT	30
16+80	25.5' LT	30
US 12 (N)		
25+50	27' RT	80
26+57	29' RT	56
27+65	-	57
28+22	32' RT	14
US 12 (E)		
13+17	40' LT	62
16+25	42' LT	40
TOTAL =		369

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**US 12 (AT ILL 31 & TRYON GROVE)**  
**LOCATION 1**  
**SCHEDULE OF QUANTITIES**  
 SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE \_\_\_\_\_  
 DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	**	MCHENRY	98	14
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EARTHWORK SCHEDULE

EARTHWORK LOCATION	1 EARTH EXCAVATION (CU. YD.)	2 EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (CU. YD.)	3 REMOVAL OF UNSUITABLE OR UNSTABLE MATERIAL (CU. YD.)	4 EMBANKMENT (CU. YD.)	5 EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CU. YD.)	6 FURNISHED EXCAVATION (CU. YD.)
IL 31 - US 12 (N)						
10+00 - 29+64	2441	2075	918	718	1357	0
TRYON GROVE - US 12 (E)						
4+92 - 19+40	1376	1170	526	664	506	0
TOTAL =	3817	3245	1444	1382	1863	0

NOTE:  
 1 = QUANTITIES FROM EARTHWORK SPREADSHEET  
 2 = (1) \* 0.85  
 3 = ESTIMATED QUANTITIES FROM CROSS-SECTIONS  
 4 = QUANTITIES FROM EARTHWORK SPREADSHEET  
 5 = 2-4  
 6 = FURNISHED EXCAVATION = SHORTAGE (-) 5

NOTE:  
 A THICKNESS OF 6 INCHES OF TOPSOIL STRIPPING SHALL BE USED FOR REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL.

TREE REMOVAL SCHEDULE

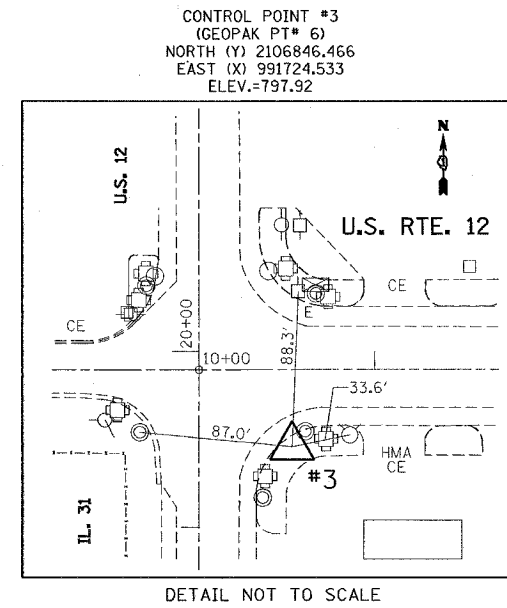
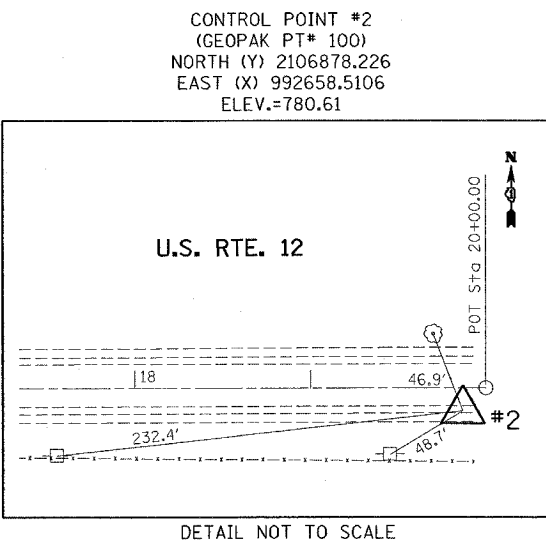
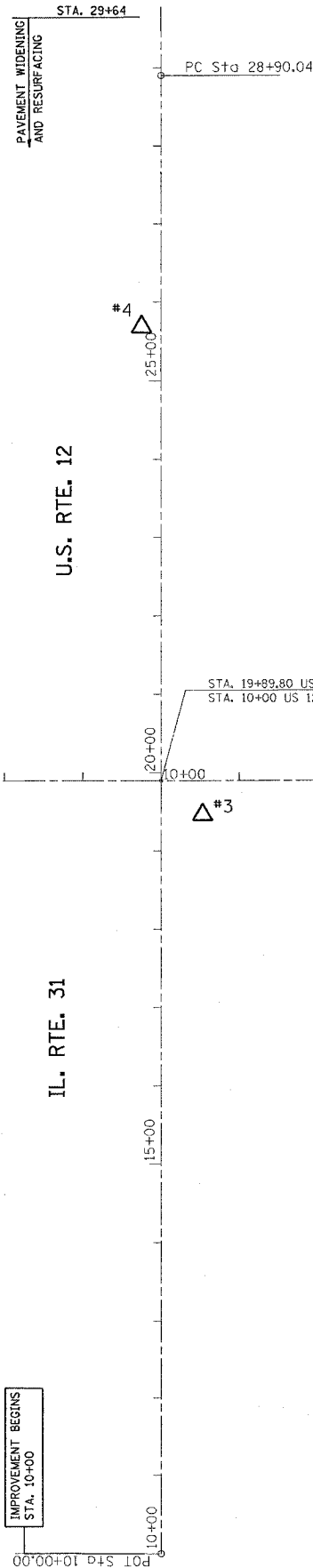
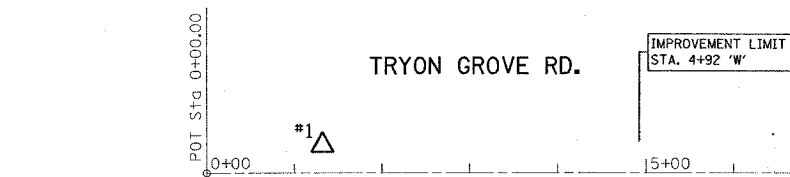
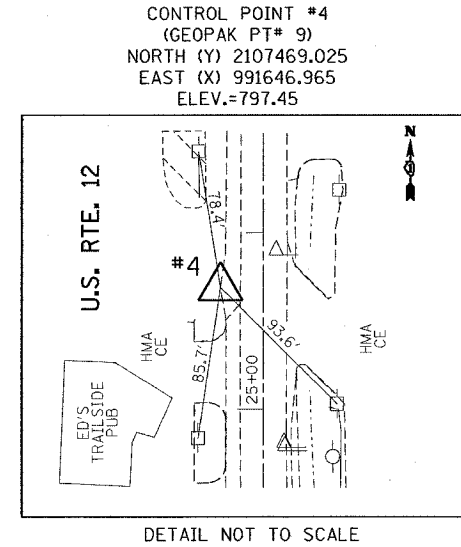
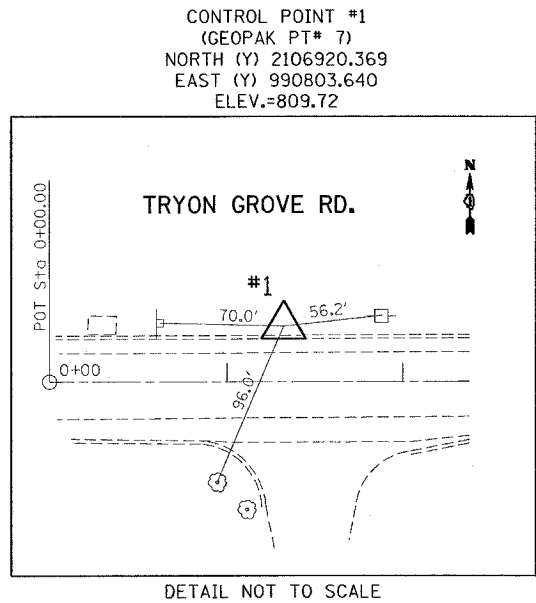
STATION	OFFSET/ SIDE (FEET)	TYPE	6 TO 15 UNIT DIAMETER	OVER 15 UNIT DIAMETER
US 12 (N)				
27+69.55	38.8' RT	AMERICAN ELM	13	
US 12 (E)				
14+92.88	20.91' LT	WHITE OAK		25
15+47.37	22.47' LT	WHITE OAK		22
TOTALS			13	47

HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT			
STATION	LENGTH (FT)	WIDTH (FT)	AREA (SQ. YD.)
ILL 31			
10+00	25	4.5	13
US 12 (N)			
29+64	24	4.5	12
US 12 (E)			
19+40	24	4.5	12
TRYON GROVE			
4+92	36.7	4.5	18.5
TOTAL =			55.5

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**US 12 (AT ILL 31 & TRYON GROVE)**  
**LOCATION 1**  
**SCHEDULE OF QUANTITIES**  
 SCALE: VERT. \_\_\_\_\_ DRAWN BY \_\_\_\_\_  
 HORIZ. \_\_\_\_\_ CHECKED BY \_\_\_\_\_  
 DATE \_\_\_\_\_

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	III RS-5 & 116 B-1	MCHENRY	98	15
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**ALIGNMENT & CONTROL POINTS/BENCHMARK PLAN**

**U.S. RTE. 12 @ IL. RTE. 31 (TRYON GROVE RD.)**

SCALE: VERT. 1"=100'  
HORIZ. 1"=100'

DATE 5/10/2007

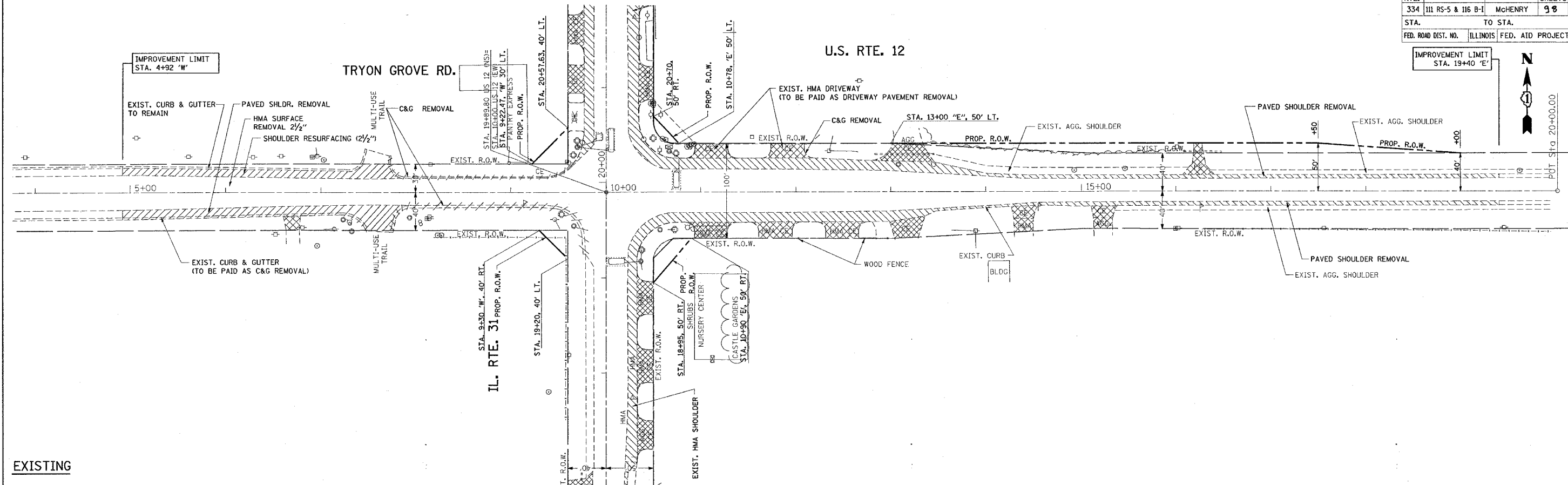
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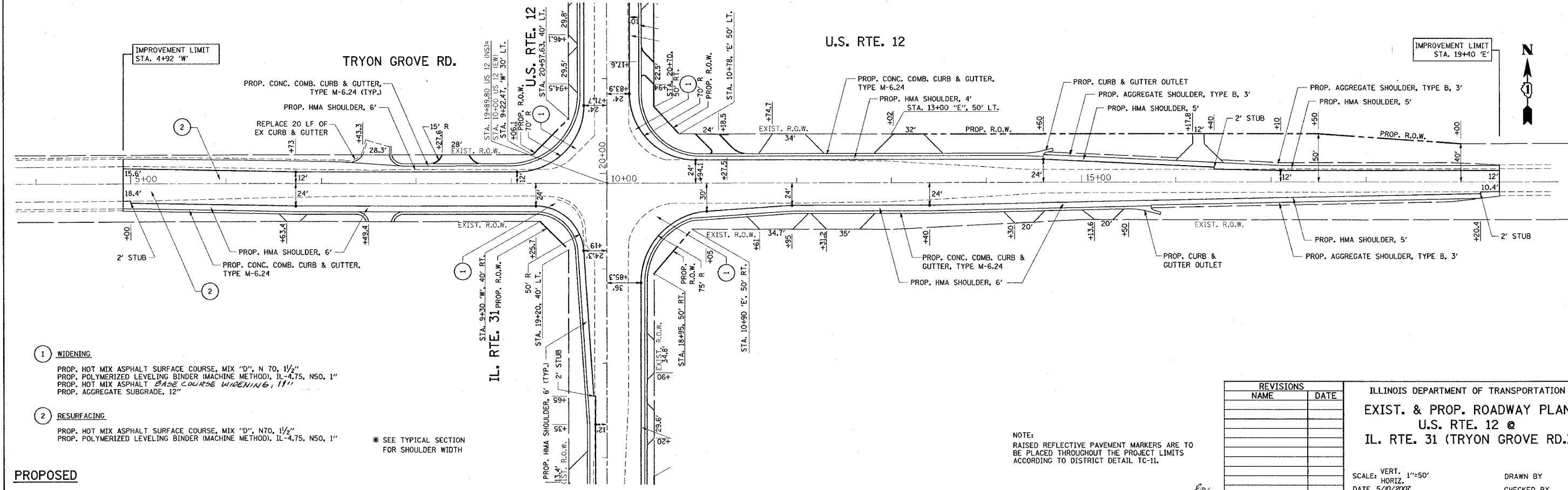
REF-TP003  
REF-PP03

CONTRACT NO. 60A91

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	111 RS-5 & 116 B-1	MCHEMRY	98	16
STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		



EXISTING



PROPOSED

- ① WIDENING  
 PROP. HOT MIX ASPHALT SURFACE COURSE, MIX "D", N 70, 1 1/2"  
 PROP. POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 1"  
 PROP. HOT MIX ASPHALT BASE COURSE WIDENING, 11"  
 PROP. AGGREGATE SUBGRADE, 12"
- ② RESURFACING  
 PROP. HOT MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"  
 PROP. POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 1"

\* SEE TYPICAL SECTION FOR SHOULDER WIDTH

NOTE:  
 RAISED REFLECTIVE PAVEMENT MARKERS ARE TO BE PLACED THROUGHOUT THE PROJECT LIMITS ACCORDING TO DISTRICT DETAIL TC-11.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 EXIST. & PROP. ROADWAY PLAN  
 U.S. RTE. 12 @  
 IL. RTE. 31 (TRYON GROVE RD.)

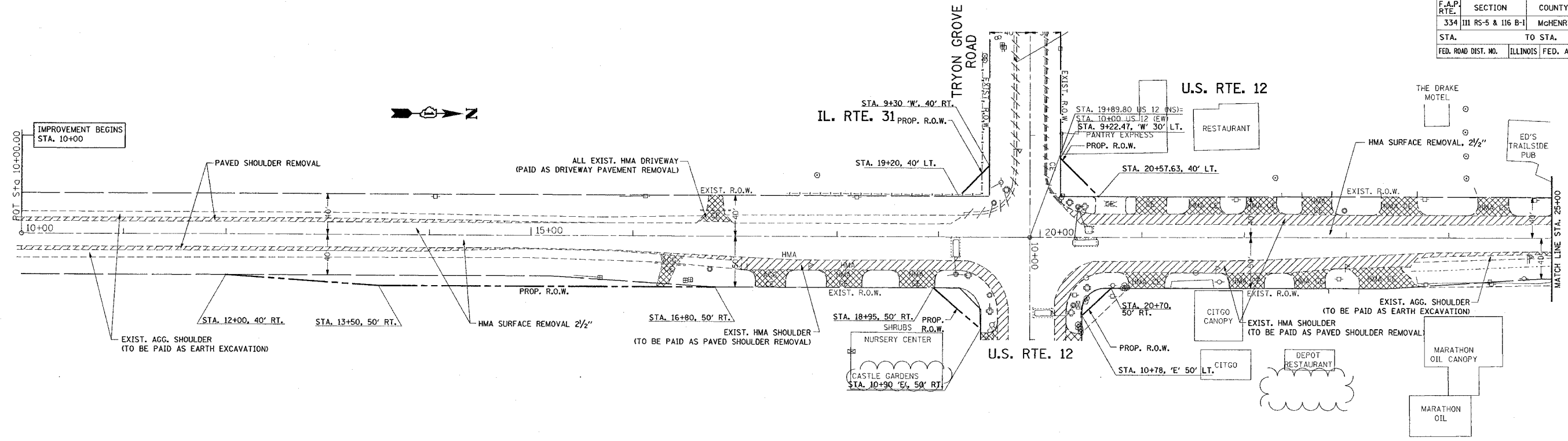
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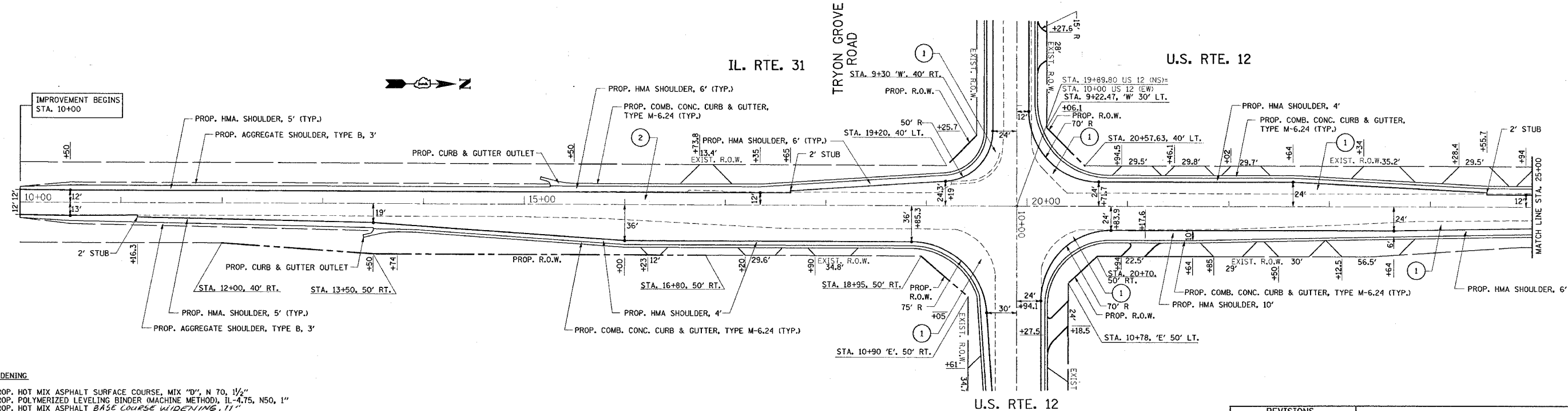


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	III RS-5 & 116 B-1	MCHENRY	98	17
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

\*REF-TOPOG  
\*REF-PROJ



**EXISTING**



- 1 **WIDENING**  
 PROP. HOT MIX ASPHALT SURFACE COURSE, MIX "D", N 70, 1 1/2"  
 PROP. POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 1"  
 PROP. HOT MIX ASPHALT BASE COURSE WIDENING, 11"  
 PROP. AGGREGATE SUBGRADE, 12"
- 2 **RESURFACING**  
 PROP. HOT MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"  
 PROP. POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 1"

\* SEE TYPICAL SECTION FOR SHOULDER WIDTH

**PROPOSED**

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**EXIST. & PROP. ROADWAY PLAN**  
**U.S. RTE. 12 @**  
**IL. RTE. 31 (TRYON GROVE RD.)**

SCALE: VERT. 1"=50'  
 HORIZ. 1"=50'  
 DATE 5/10/2007

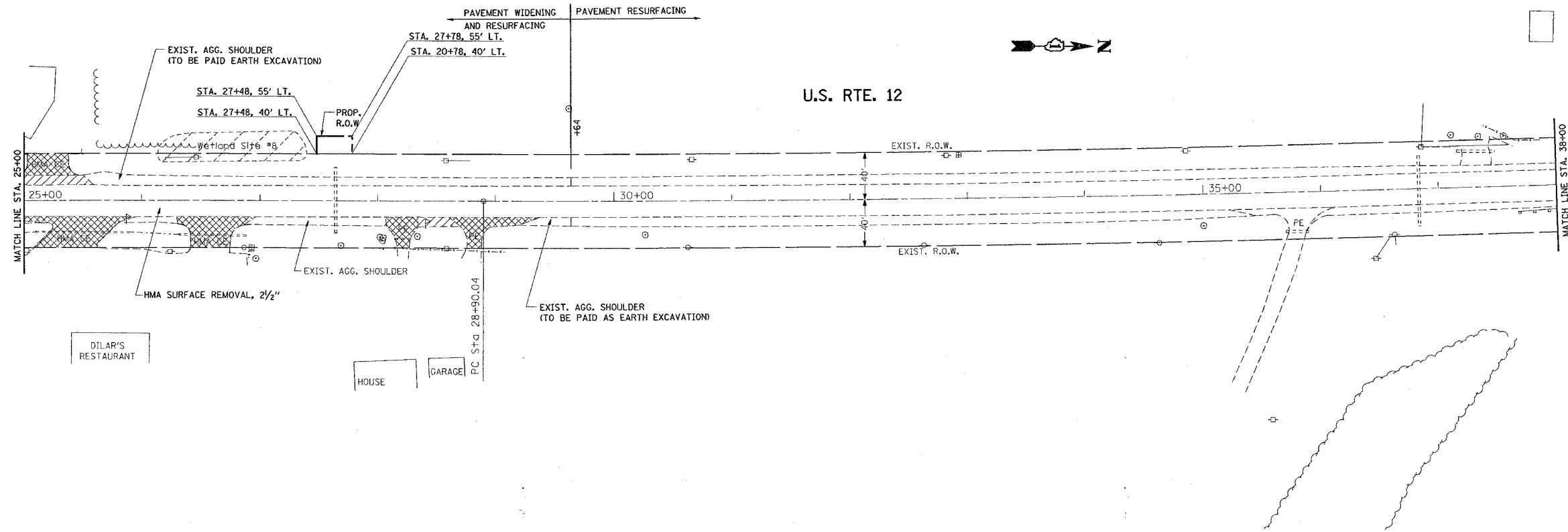
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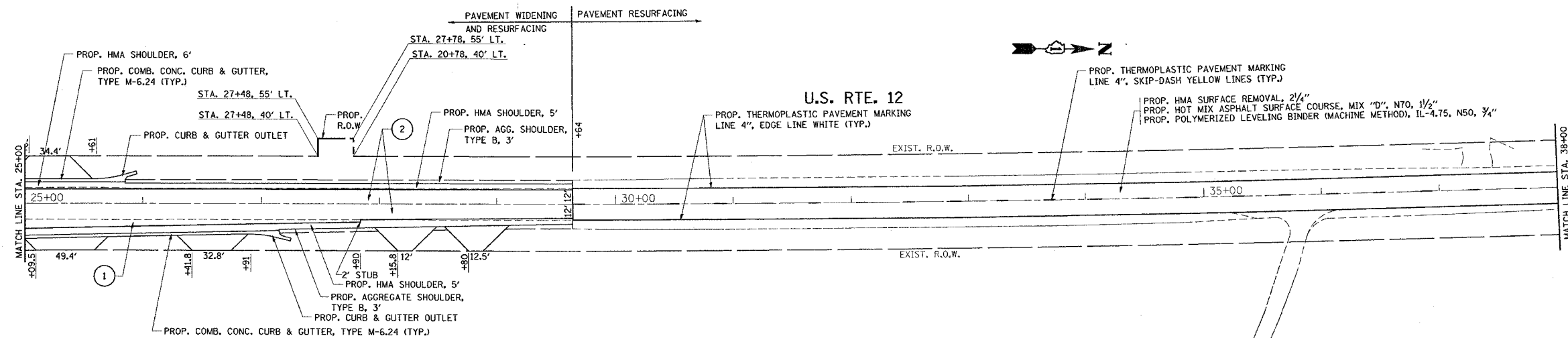
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REF-PP02

CONTRACT NO. 60A91

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	III RS-5 & 116 B-I	McHENRY	98	18
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



EXISTING



1 WIDENING

PROP. HOT MIX ASPHALT SURFACE COURSE, MIX "D", N 70, 1 1/2"  
PROP. POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 1"  
PROP. HOT MIX ASPHALT BASE COURSE WIDENING, 11"  
PROP. AGGREGATE SUBGRADE, 12"

2 RESURFACING

PROP. HOT MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"  
PROP. POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 1"

\* SEE TYPICAL SECTION FOR SHOULDER WIDTH

PROPOSED

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
EXIST. & PROP. ROADWAY PLAN  
U.S. RTE. 12 @  
IL. RTE. 31 (TRYON GROVE RD.)

SCALE: VERT. 1"=50'  
HORIZ. 1"=50'  
DATE 5/10/2007

DRAWN BY  
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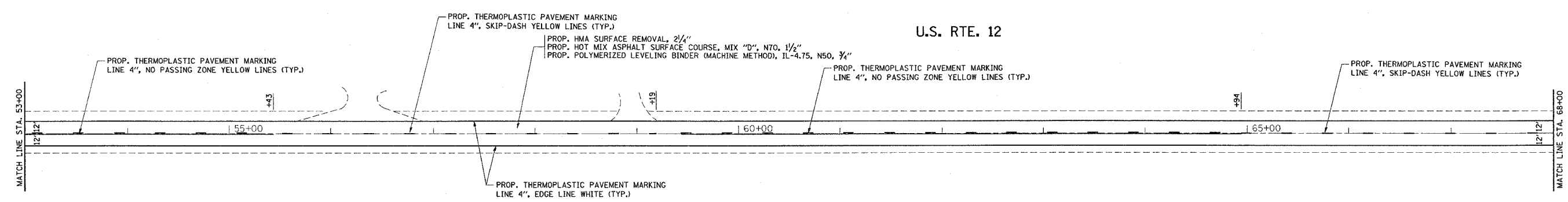
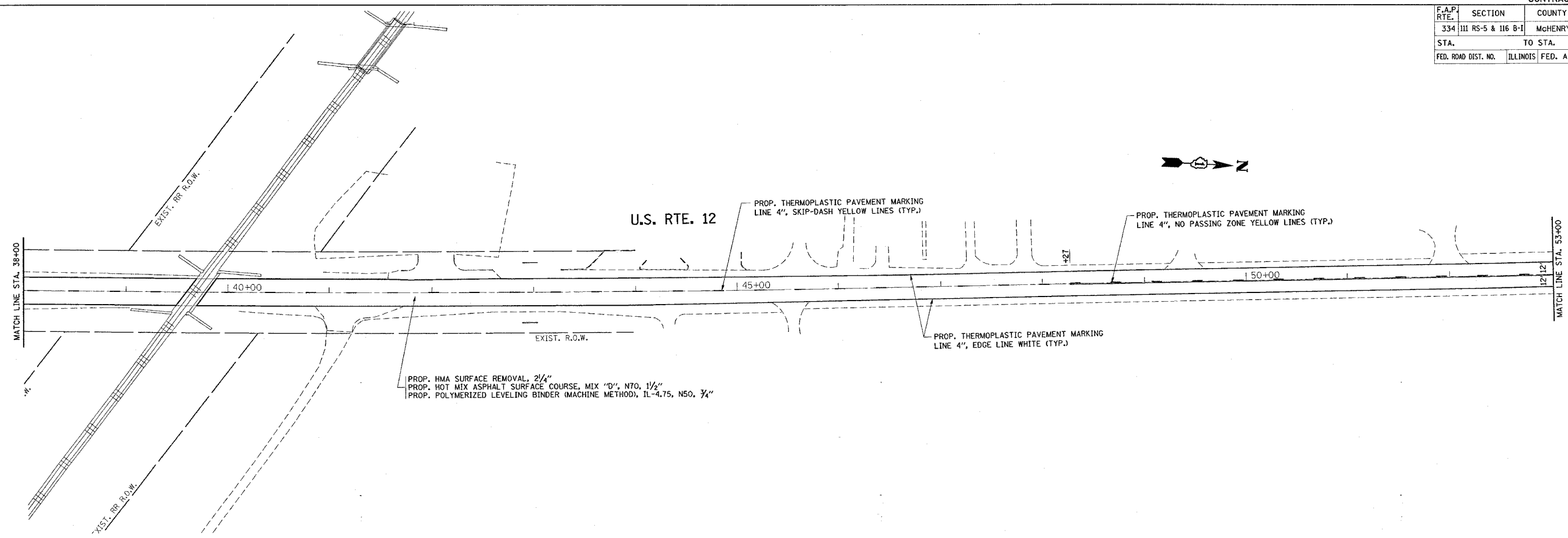
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Rev.

REF-TP003  
REF-PP03

CONTRACT NO. 60A91

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	111 RS-5 & 116 B-1	MCHENRY	36	19
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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NOTE:  
RAISED REFLECTIVE PAVEMENT MARKERS ARE TO BE PLACED THROUGHOUT THE PROJECT LIMITS ACCORDING TO DISTRICT DETAIL TC-11.

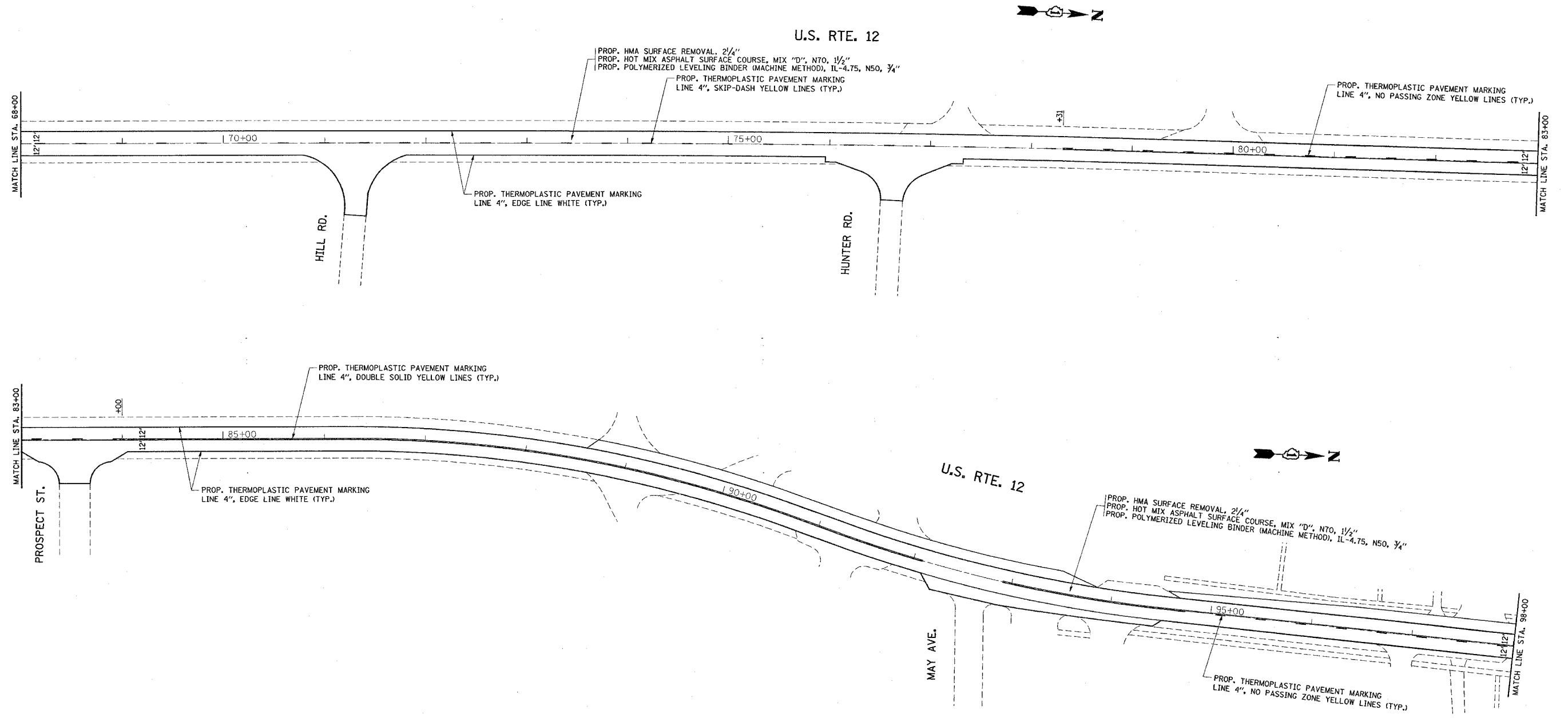
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
EXIST. & PROP. ROADWAY PLAN  
U.S. RTE. 12 @  
IL. RTE. 31 (TRYON GROVE RD.)  
SCALE: VERT. 1"=50'  
HORIZ. 1"=50'  
DATE 5/10/2007  
DRAWN BY  
CHECKED BY

REF-TP004  
REF-PP04

CONTRACT NO. 60A91

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	III RS-5 & 116 B-1	McHENRY	38	20
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



NOTE:  
RAISED REFLECTIVE PAVEMENT MARKERS ARE TO BE PLACED THROUGHOUT THE PROJECT LIMITS ACCORDING TO DISTRICT DETAIL TC-11.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
EXIST. & PROP. ROADWAY PLAN  
U.S. RTE. 12 @  
IL. RTE. 31 (TRYON GROVE RD.)

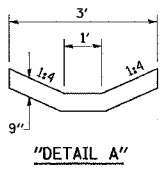
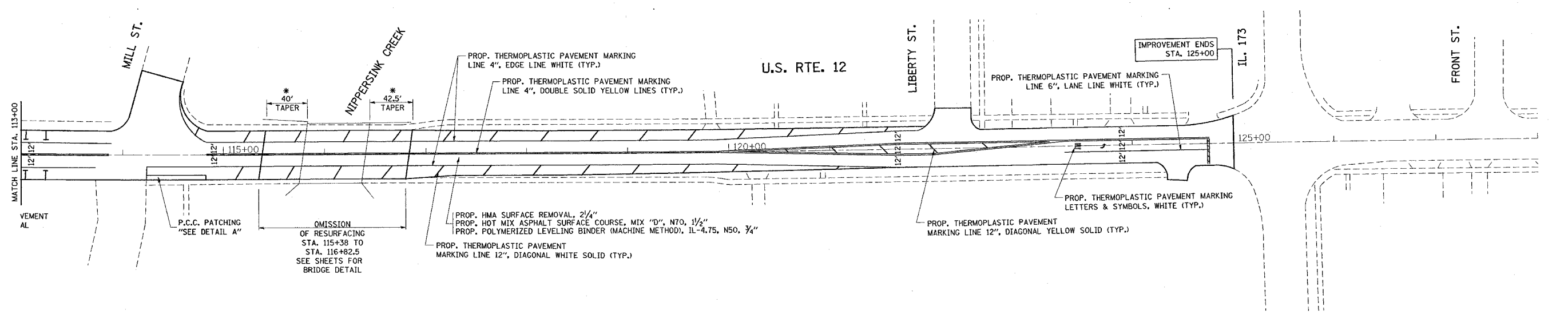
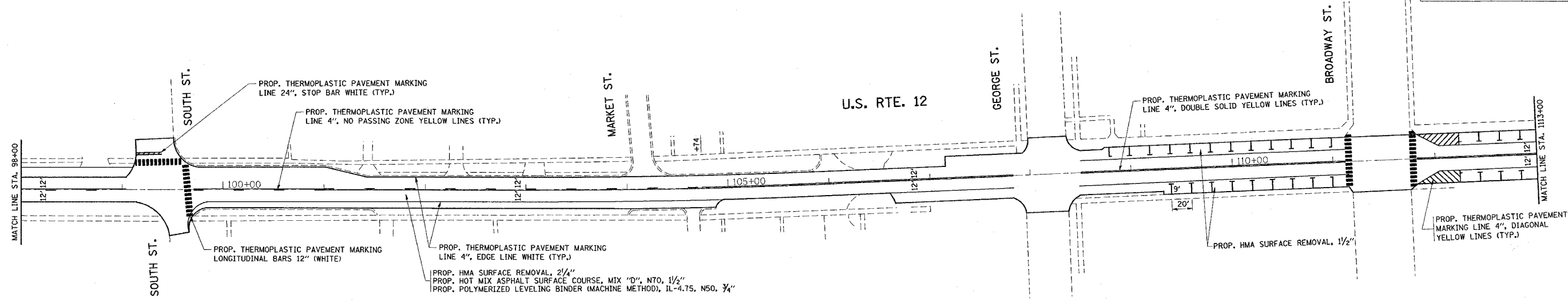
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REF-TOP005  
REF-PP05

CONTRACT NO. 60A91

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	111 RS-5 & 116 B-1	McHENRY	99	21
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



\* -HMA SURFACE REMOVAL, 2 1/4"  
-TAPER AND PCC BUTT JOINT TO BE PERFORMED DURING BRIDGE DECK OVERLAY STAGE (SEE SHEET 72)

NOTE:  
RAISED REFLECTIVE PAVEMENT MARKERS ARE TO BE PLACED THROUGHOUT THE PROJECT LIMITS ACCORDING TO DISTRICT DETAIL TC-11.  
POLYUREA PAVEMENT MARKING SHALL BE USED ON THE BRIDGE.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
EXIST. & PROP. ROADWAY PLAN  
U.S. RTE. 12 @  
IL. RTE. 31 (TRYON GROVE RD.)

SCALE: VERT. 1"=50'  
HORIZ. DATE 5/10/2007  
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CHECKED BY

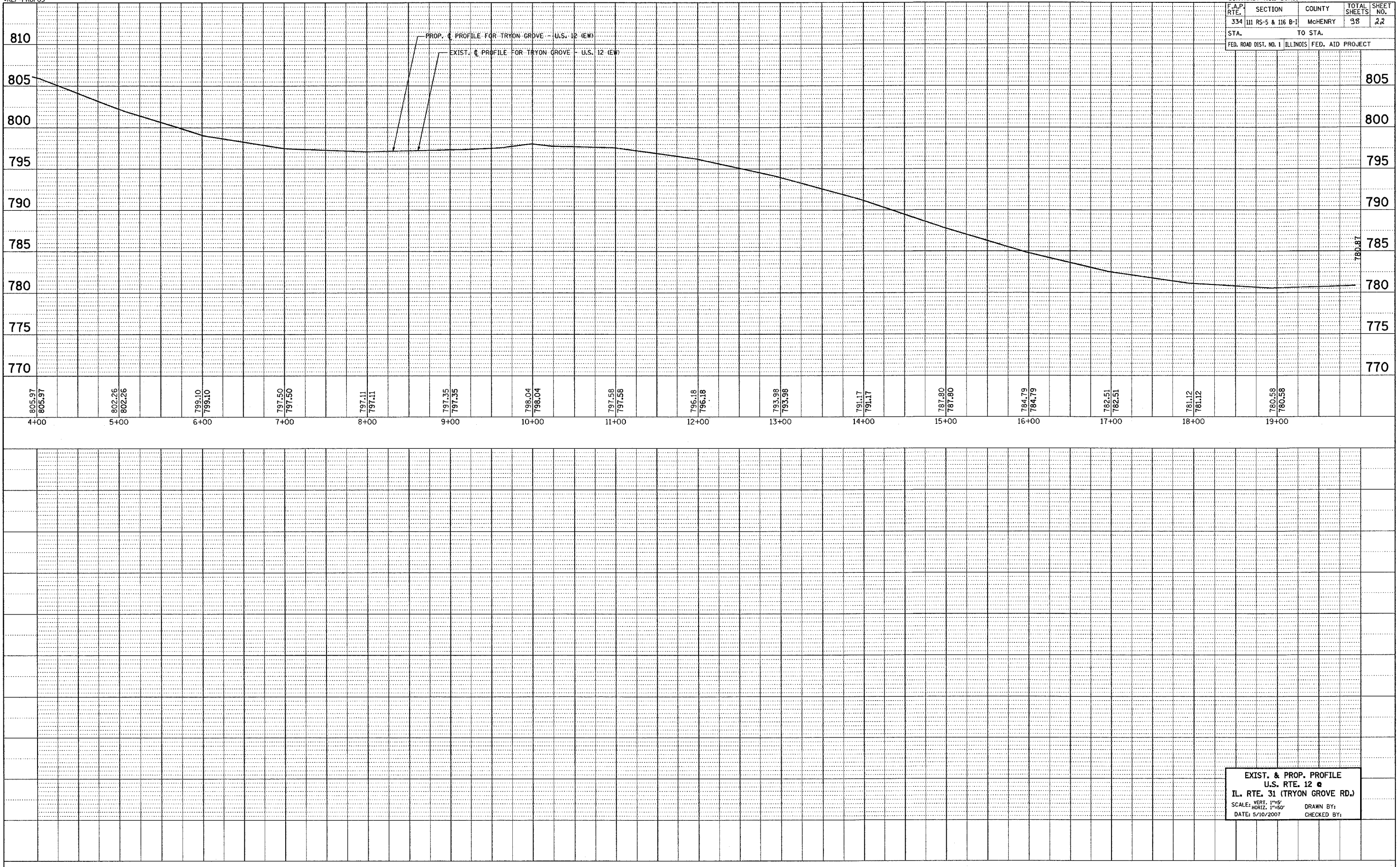
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REF-PROF03

CONTRACT NO. 60491				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	111 RS-5 & 116 B-1	McHENRY	38	22
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

PLAN	SURVEYED	BY	DATE
NO.	NO.		
NOTE BOOK			
NO. _____			
CADD FILE NAME			
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PROFILE	SURVEYED	BY	DATE
NO.	NO.		
NOTE BOOK			
NO. _____			
STRUCTURE NOTATION CHFD			
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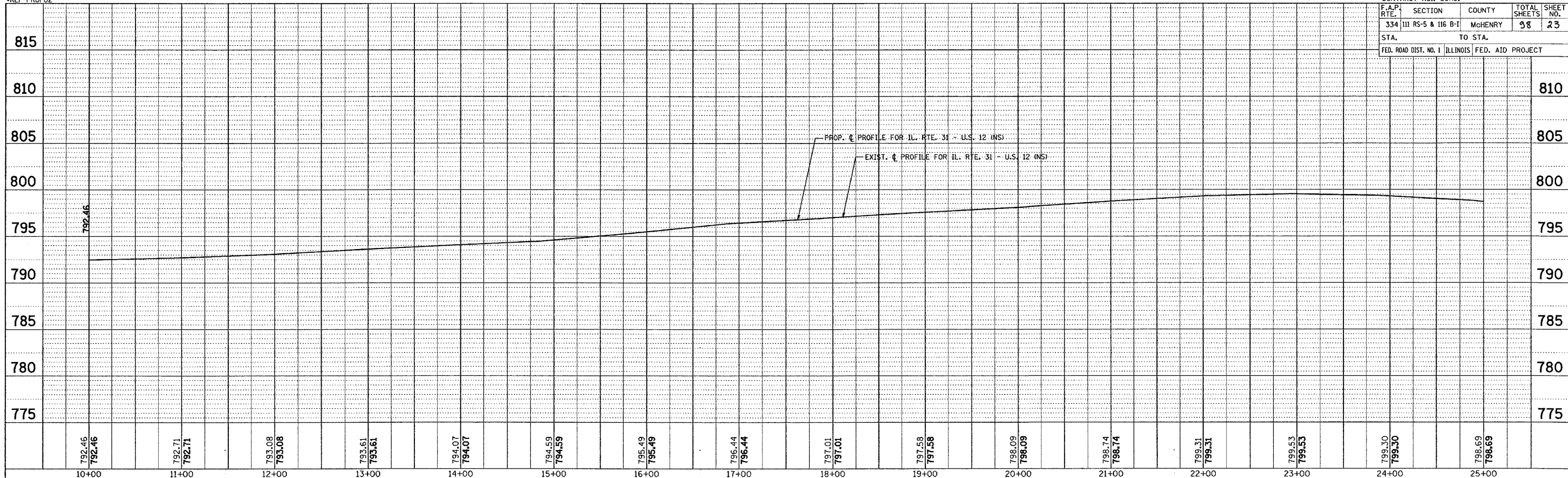
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EXIST. & PROP. PROFILE  
 U.S. RTE. 12 @  
 IL. RTE. 31 (TRYON GROVE RD.)  
 SCALE: VERT. 1"=5'  
 HORIZ. 1"=50'  
 DATE: 5/10/2007  
 DRAWN BY:  
 CHECKED BY:

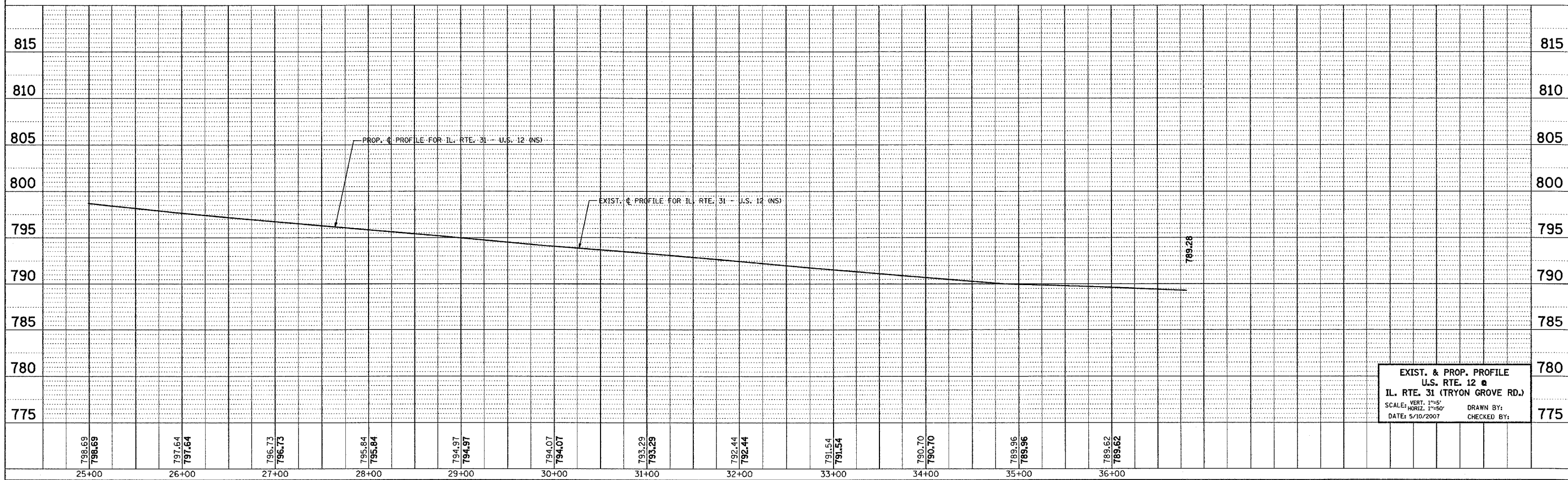
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CONTRACT NO.: 60A91				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	III RS-5 & 116 B-1	MCHEMRY	98	23
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

PLAN	SURVEYED	BY	DATE
NO.	NO.		
NOTE BOOK			
NO. OF WAYS CHECKED			
CADD FILE NAME			



PLAN FILE	SURVEYED	BY	DATE
NO.	NO.		
NOTE BOOK			
NO. OF WAYS CHECKED			
CADD FILE NAME			



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EXIST. & PROP. PROFILE  
U.S. RTE. 31 (TRYON GROVE RD.)  
SCALE: VERT. 1"=5'  
HORIZ. 1"=50'  
DATE: 5/10/2007  
DRAWN BY:  
CHECKED BY:

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	**	MCHENRY	38	24
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
** 111 RS-5 & 116 B-1				

**PRE-STAGE**

- INSTALL CROSS ROAD CULVERT ON US 12 (NORTH LEG) STA 27+65.
- INSTALL CATCH BASIN WEST OF US 12 'N' (STA 20+55.69 & STA 22+33.03)
- INSTALL CATCH BASIN NORTH AND SOUTH OF TRYON GROVE (STA 9+00)
- INSTALL CROSS ROAD STORM SEWERS NORTH OF INTERSECTION (STA 20+55.69 & STA 22+31.03)
- INSTALL CROSS ROAD STORM SEWERS WEST OF INTERSECTION (STA 9+00)

**STAGE 1**

TRAFFIC MAINTAINED ON EXISTING PAVEMENT DURING STAGE 1 CONSTRUCTION

**MAINTENANCE OF TRAFFIC**

- INSTALL TEMPORARY TRAFFIC SIGNAL LIGHT
- INSTALL TEMPORARY TRAFFIC CONTROL DEVICES AND SIGNS IN ACCORDANCE WITH IDOT STANDARD 701326.
- MAINTAIN TRAFFIC AT INTERSECTION CONSTRUCTION IN ACCORDANCE WITH IDOT STANDARD 701326.
- MAINTAIN DRIVEWAYS AND ENTRANCE ACCESS WITH "TEMPORARY ACCESS" (EACH)

**CONSTRUCTION**

CONSTRUCTION TO BE PERFORMED ON WEST SIDE US 12 (NORTH LEG), EAST SIDE OF IL 31, NORTH SIDE OF TRYON GROVE ROAD AND SOUTH SIDE OF US 12 (EAST LEG)

- 1) CONSTRUCT PROPOSED AGGREGATE SUBGRADE, HMA BINDER COURSES AND ADD LEVELING BINDER COURSE ON WIDEN AREA.
- 2) CONSTRUCT PROPOSED HOT-MIX ASPHALT AND AGGREGATE SHOULDERS, COMBINATION CONCRETE CURB AND GUTTER M-6.24.
- 3) RECONSTRUCT DRIVEWAYS AND ENTRANCES.

**STAGE 2**

TRAFFIC MAINTAINED ON EXISTING PAVEMENT DURING STAGE 2 CONSTRUCTION.

**MAINTENANCE OF TRAFFIC**

- INSTALL TEMPORARY TRAFFIC CONTROL DEVICES AND SIGNS IN ACCORDANCE WITH IDOT STANDARD 701326.
- KEEP TRAFFIC OF WIDEN AREA IN STAGE ONE USING TRAFFIC BARRICADES
- MAINTAIN TRAFFIC AT INTERSECTION CONSTRUCTION IN ACCORDANCE WITH IDOT STANDARD 701326.
- MAINTAIN DRIVEWAYS AND ENTRANCE ACCESS WITH "TEMPORARY ACCESS" (EACH)

**CONSTRUCTION**

CONSTRUCTION TO BE PERFORMED ON EAST SIDE OF US 12 (NORTH LEG), WEST SIDE OF IL 31, SOUTH SIDE OF TRYON GROVE AND NORTH SIDE OF US 12 (EAST LEG)

- 1) INSTALL STORM SEWERS AND DRAINAGE STRUCTURES.
- 2) CONSTRUCT PROPOSED AGGREGATE SUBGRADE, HMA WIDENING AND ADD LEVELING BINDER COURSE ON WIDEN AREA.
- 3) CONSTRUCT PROPOSED HOT-MIX ASPHALT AND AGGREGATE SHOULDERS, COMBINATION CONCRETE CURB AND GUTTER M-6.24.
- 4) RECONSTRUCT DRIVEWAYS AND ENTRANCES.

**STAGE 3**

TRAFFIC MAINTAINED ON EXISTING PAVEMENT DURING STAGE 3 CONSTRUCTION

**MAINTENANCE OF TRAFFIC/CONSTRUCTION**

- 1) MILL EXISTING LANES IN ACCORDANCE WITH IDOT STANDARD 701306.
- 2) PLACE BINDER COURSE ON MILLED SURFACE AND ADD SURFACE COURSE ON ALL AREAS USING DAYTIME LANE CLOSURES
- 3) PLACE PERMANENT PAVEMENT MARKING IN ACCORDANCE WITH IDOT STANDARD 701311.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**STAGING AND TRAFFIC CONTROL PLANS**

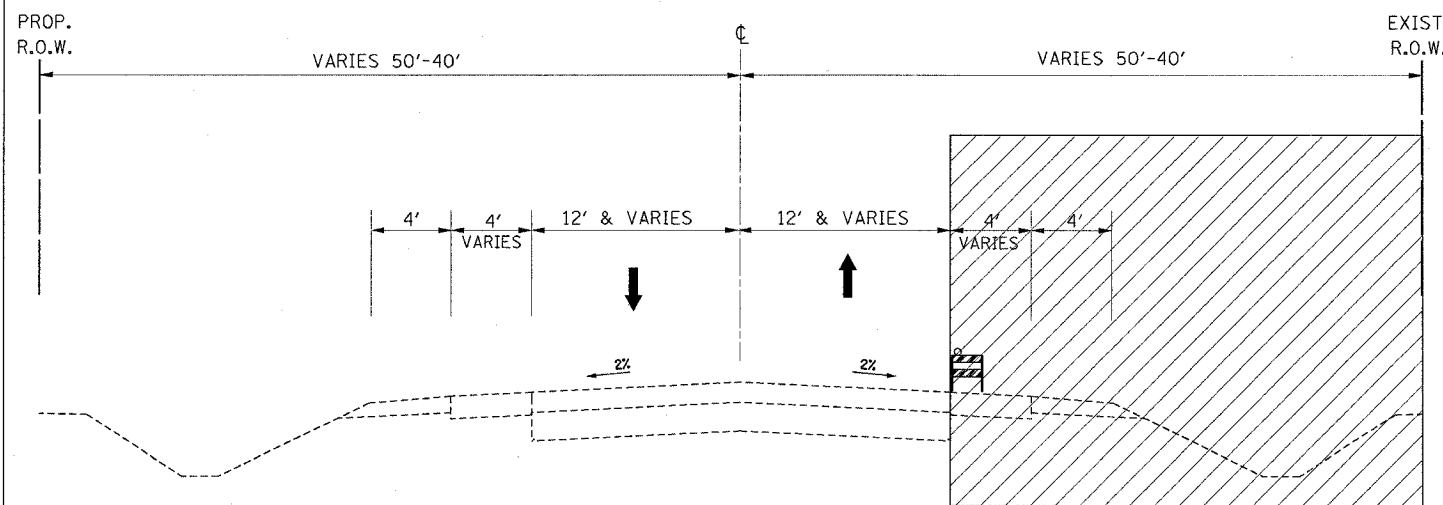
**INTERSECTION IMPROVEMENT**

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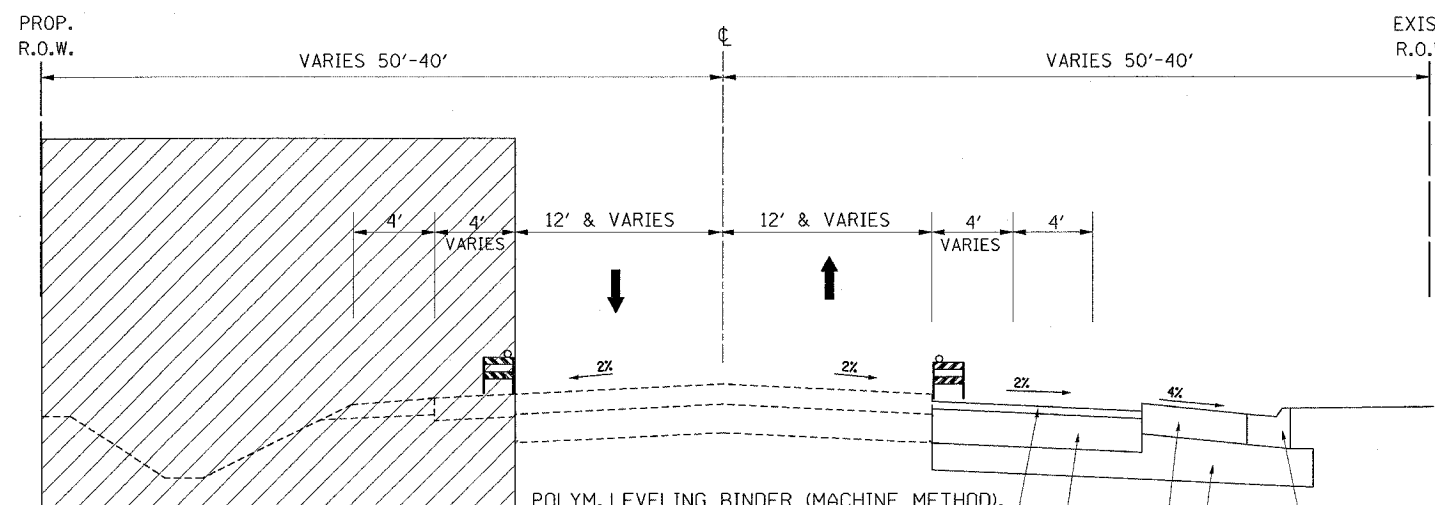


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	**	MCHENRY	38	25
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



STAGE I TYPICAL SECTION  
U.S. RTE. 12 - EAST LEG  
STA. 10+00 'E' TO 19+40 'E'

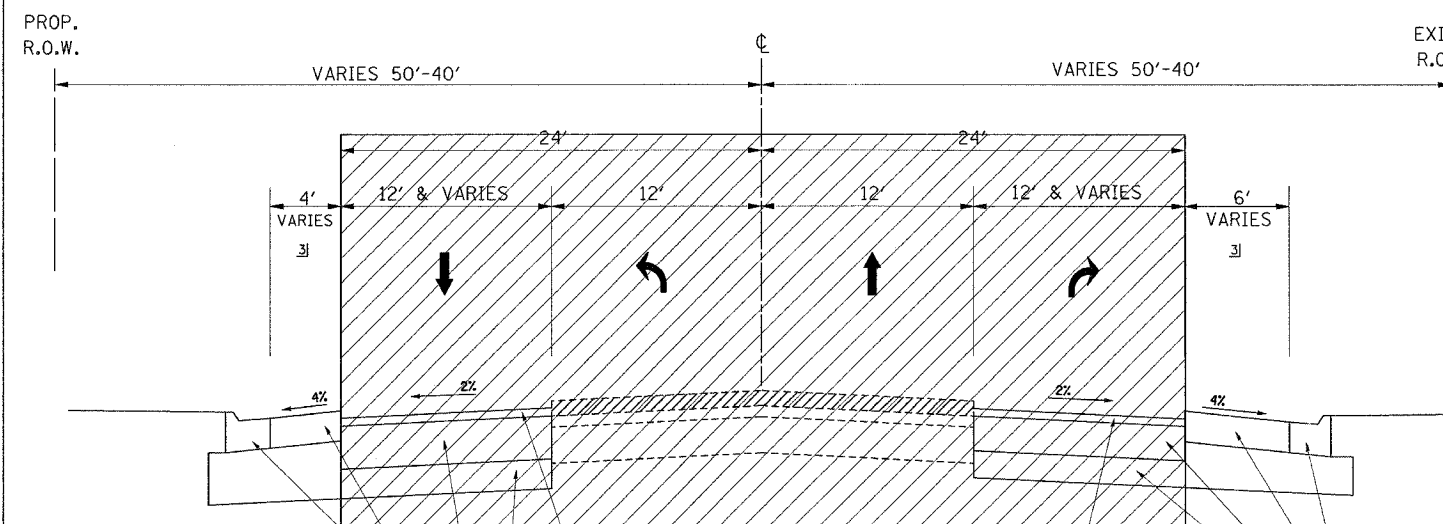
10' PAVED SHOULDER BEGINS STA. 17+00 RT.



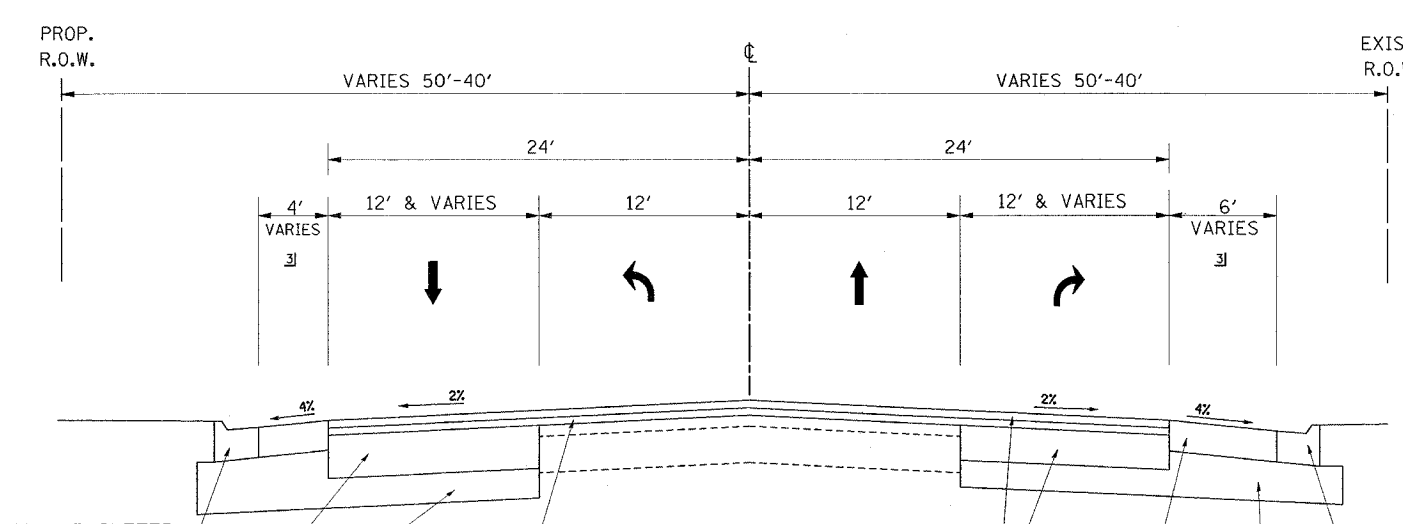
STAGE II TYPICAL SECTION  
U.S. RTE. 12 - EAST LEG  
STA. 10+00 'E' TO 19+40 'E'

10' PAVED SHOULDER BEGINS STA. 17+00 RT.

POLYM. LEVELING BINDER (MACHINE METHOD),  
IL-4.75, N50, 1"  
HMA BASE COURSE WIDENING, 11"  
HMA SHOULDER, 8"  
AGGREGATE SUBGRADE, 12"  
COMBINATION CURB AND GUTTER,  
TYPE M-6.24



STAGE III TYPICAL SECTION  
U.S. RTE. 12 - EAST LEG  
STA. 10+00 'E' TO 19+40 'E'



PROPOSED TYPICAL SECTION  
U.S. RTE. 12 - EAST LEG  
STA. 10+00 'E' TO 19+40 'E'

COMBINATION CURB AND GUTTER,  
TYPE M-6.24  
HMA SHOULDER, 8"  
HMA BASE COURSE WIDENING, 11"  
AGGREGATE SUBGRADE, 12"

POLYM. LEVELING BINDER (MACHINE METHOD),  
IL-4.75, N50, 1"

COMBINATION CURB AND GUTTER,  
TYPE M-6.24

HMA SHOULDER, 8"

HMA BASE COURSE WIDENING, 11"

AGGREGATE SUBGRADE, 12"

POLYM. LEVELING BINDER (MACHINE METHOD),  
IL-4.75, N50, 1"

HMA SURFACE COURSE, MIX'D", N70 1 1/2"  
HMA BASE COURSE WIDENING, 11"

HMA SHOULDER, 8"

AGGREGATE SUBGRADE, 12"

COMBINATION CURB AND GUTTER,  
TYPE M-6.24

- 3 USE 8' SHOULDER (5' PAVED, 3' STABILIZED AGGREGATE):  
STA. 15+74 TO STA. 19+40 RT.  
STA. 16+52 TO STA. 19+40 LT.
- USE 6' SHOULDER (3' PAVED, 3' STABILIZED AGGREGATE):  
STA. 14+60 TO STA. 15+98 LT.

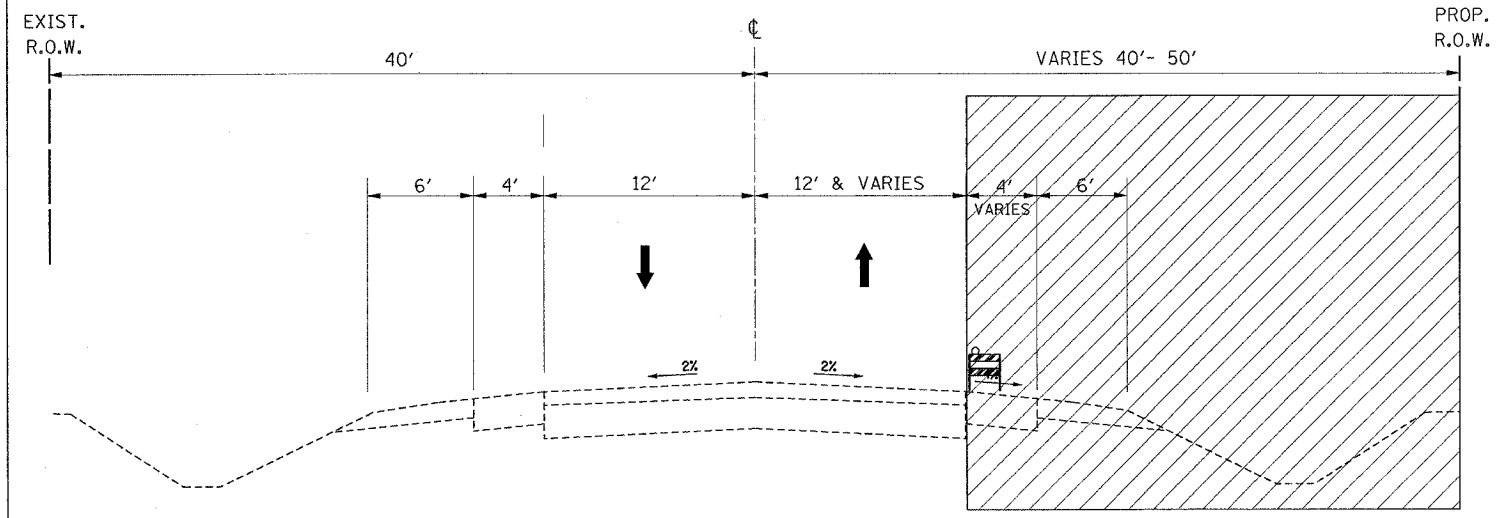
PROPOSED M-6.24 CURB AND GUTTER:  
STA. 10+00 TO STA. 14+60 LT.  
STA. 10+00 TO STA. 15+74 RT.

REVISIONS	
NAME	DATE

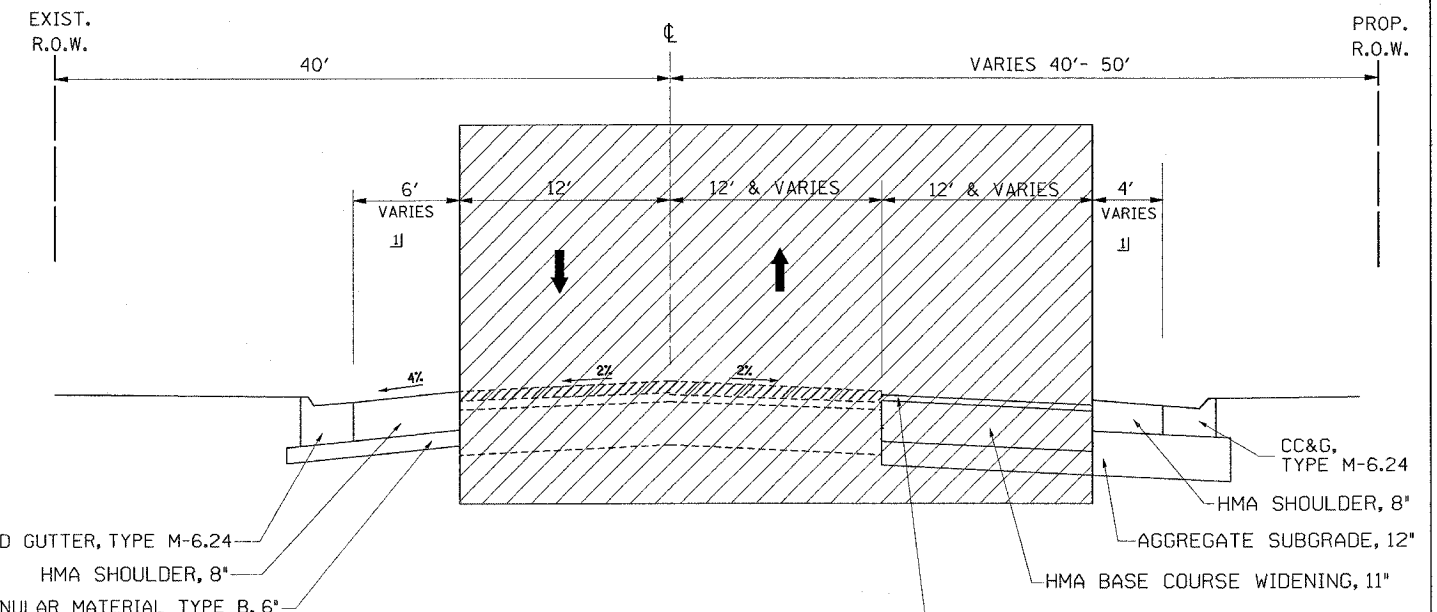
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**EXISTING AND PROPOSED  
TYPICAL SECTION  
U.S. RTE. 12 - EAST LEG  
STA. 10+00 'E' TO 19+40 'E'**  
SCALE: VERT. \_\_\_\_\_  
HORIZ. \_\_\_\_\_  
DATE \_\_\_\_\_ DRAWN BY \_\_\_\_\_  
CHECKED BY \_\_\_\_\_

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

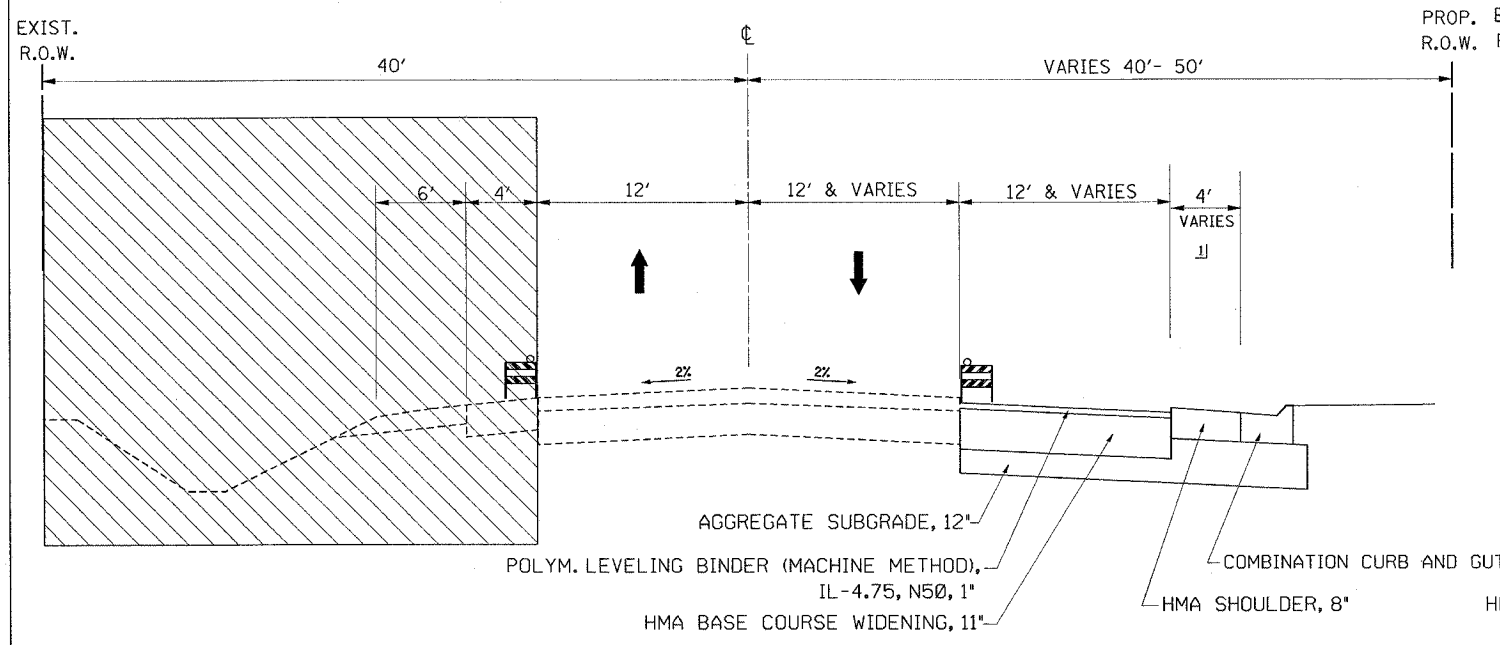
\*\* 111 RS-5 & 116 B-1



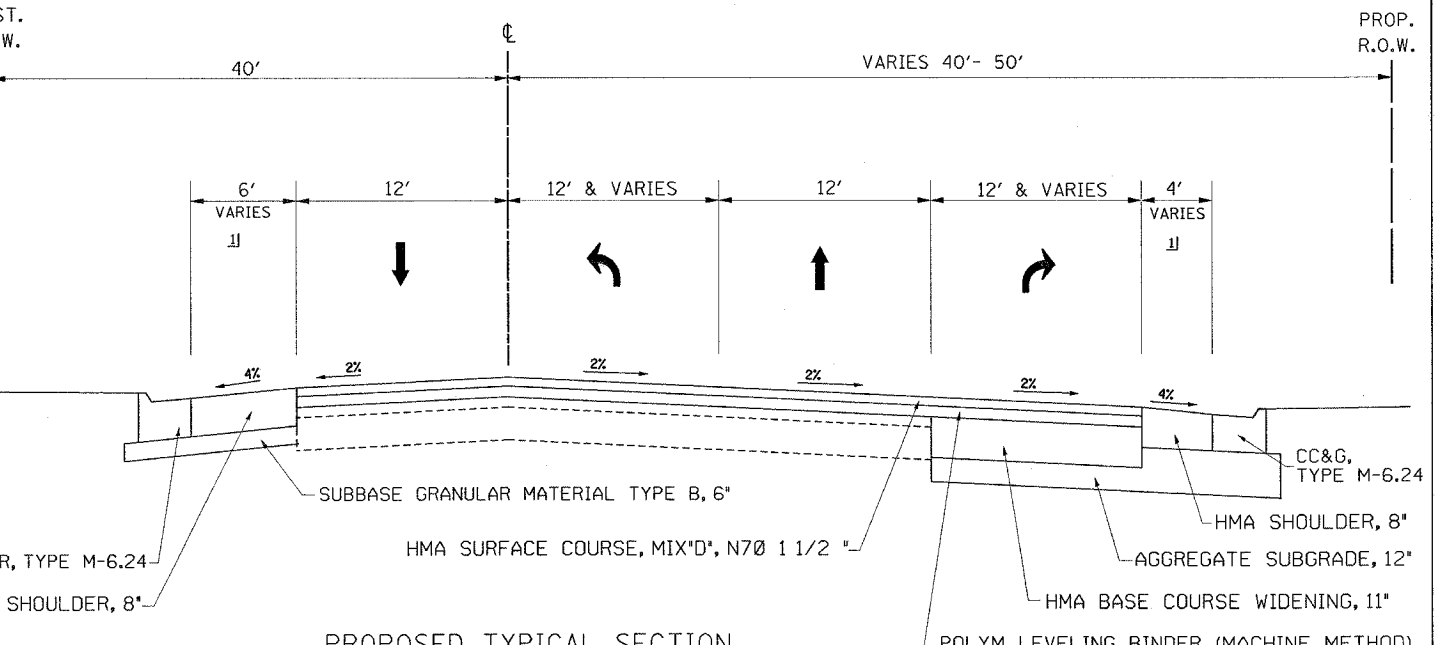
STAGE I TYPICAL SECTION  
IL RTE. 31 - SOUTH LEG  
STA. 10+00 'S' TO 19+89.9 'S'



STAGE III TYPICAL SECTION  
IL RTE. 31 - SOUTH LEG  
STA. 10+00 'S' TO 19+89.9 'S'



STAGE II TYPICAL SECTION  
IL RTE. 31 - SOUTH LEG  
STA. 10+00 'S' TO 19+89.9 'S'



PROPOSED TYPICAL SECTION  
IL RTE. 31 - SOUTH LEG  
STA. 10+00 'S' TO 19+89.90 'S'

|| USE 8' SHOULDER (5' PAVED, 3' STABILIZED AGGREGATE):  
STA. 10+00 TO STA. 13+50 RT.  
STA. 10+00 TO STA. 15+23 LT.

PROPOSED M-6.24 CURB AND GUTTER:  
STA. 13+50 TO STA. 19+89.90 RT.  
STA. 15+23 TO STA. 19+89.90 LT.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

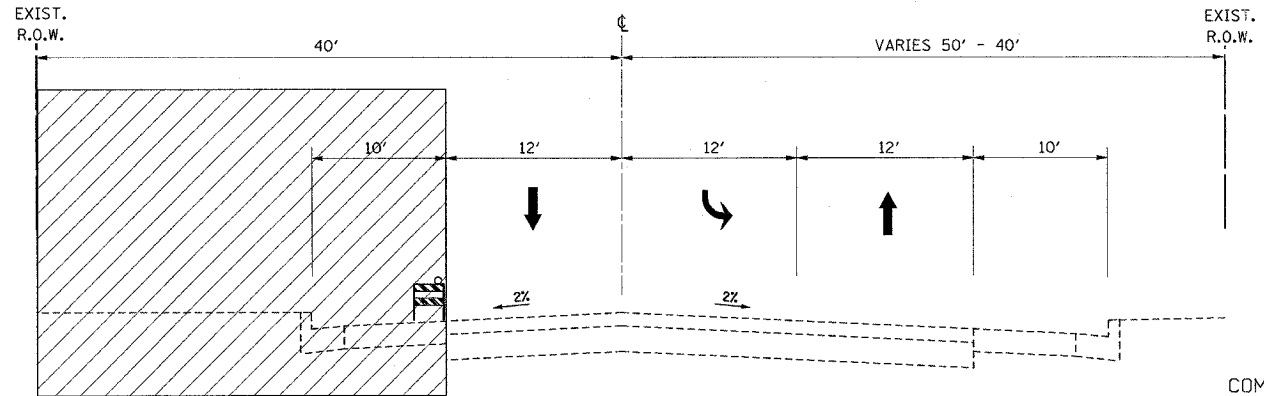
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TYPICAL SECTION  
ILL 31 ROAD - SOUTH LEG  
STA. 10+00 TO STA. 19+89.90**

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HORIZ. \_\_\_\_\_

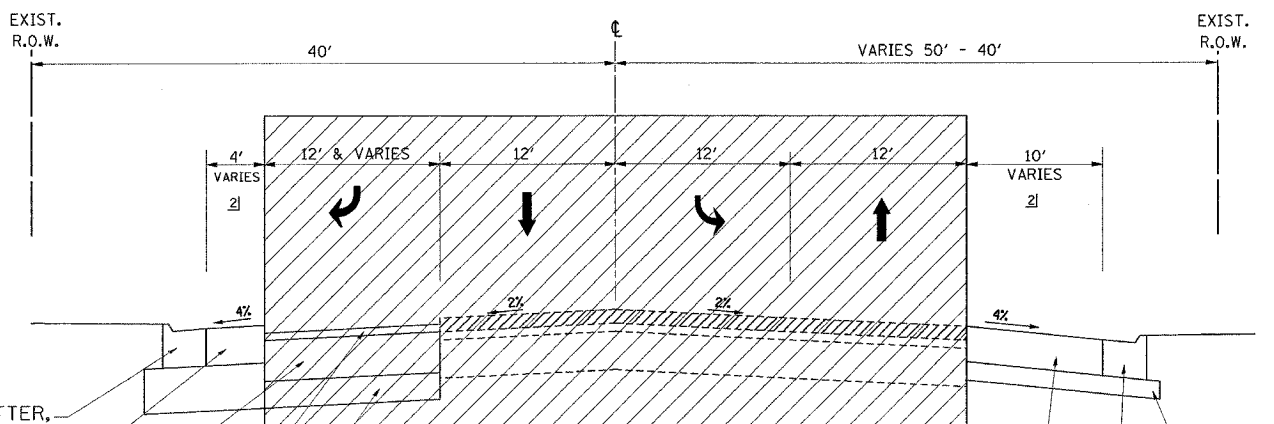
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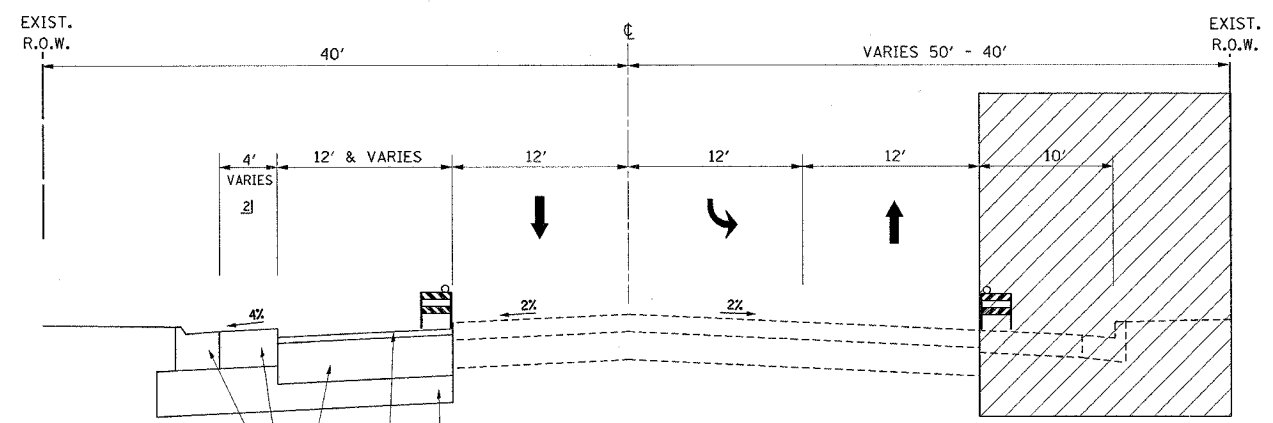
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



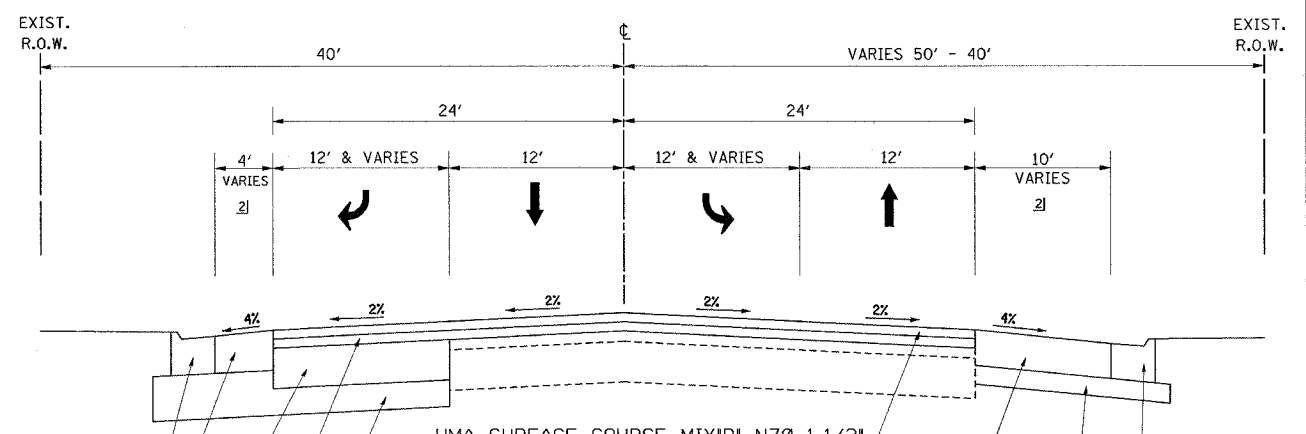
STAGE I TYPICAL SECTION  
U.S. RTE. 12 - NORTH LEG  
STA. 19+89 'N' TO 29+64 'N'



COMBINATION CURB AND GUTTER, TYPE M-6.24  
HMA SHOULDER, 8"  
HMA BASE COURSE WIDENING, 11"  
POLYM. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 1"  
AGGREGATE SUBGRADE, 12"  
STAGE III TYPICAL SECTION  
U.S. RTE. 12 - NORTH LEG  
STA. 19+89 'N' TO 29+64 'N'  
HMA SHOULDER, 8"  
COMBINATION CURB AND GUTTER, TYPE M-6.24  
SUBBASE GRANULAR MATERIAL TYPE B, 6"



COMBINATION CURB AND GUTTER, TYPE M-6.24  
HMA SHOULDER, 8"  
HMA BASE COURSE WIDENING, 11"  
POLYM. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 1"  
AGGREGATE SUBGRADE, 12"  
STAGE II TYPICAL SECTION  
U.S. RTE. 12 - NORTH LEG  
STA. 19+89 TO 29+64



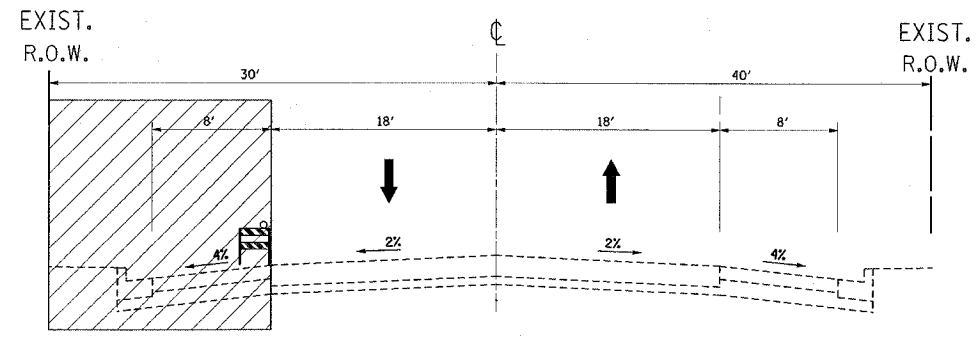
COMBINATION CURB AND GUTTER, TYPE M-6.24  
HMA SHOULDER, 8"  
HMA BASE COURSE WIDENING, 11"  
POLYM. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 1"  
AGGREGATE SUBGRADE, 12"  
HMA SURFACE COURSE, MIX'D, N70 1 1/2"  
HMA SHOULDER, 8"  
SUBBASE GRANULAR MATERIAL TYPE B, 6"  
COMBINATION CURB AND GUTTER, TYPE M-6.24  
PROPOSED TYPICAL SECTION  
U.S. RTE. 12 - NORTH LEG  
STA. 19+89.90 TO 29+64

PROPOSED M-6.24 CURB AND GUTTER:  
STA. 19+89.90 TO STA. 27+16 RT.  
STA. 19+89.90 TO STA. 25+96 LT.  
USE 8' SHOULDER (5' PAVED, 3' STABILIZED AGGREGATE):  
STA. 27+16 TO STA. 29+64 RT.  
STA. 25+96 TO STA. 29+64 LT.

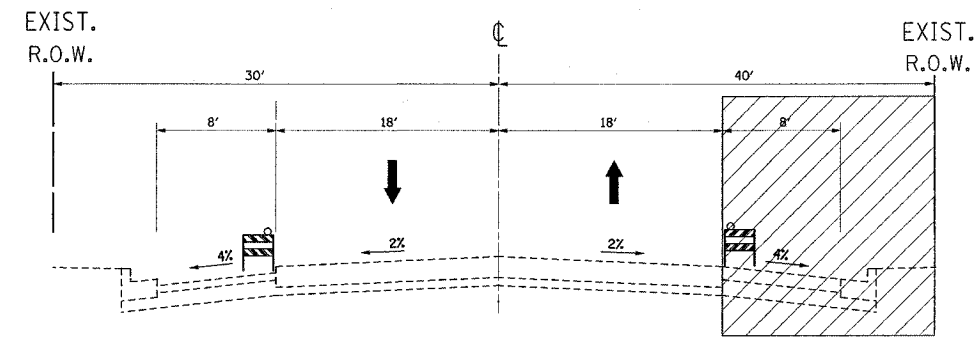
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION	
NAME	DATE		
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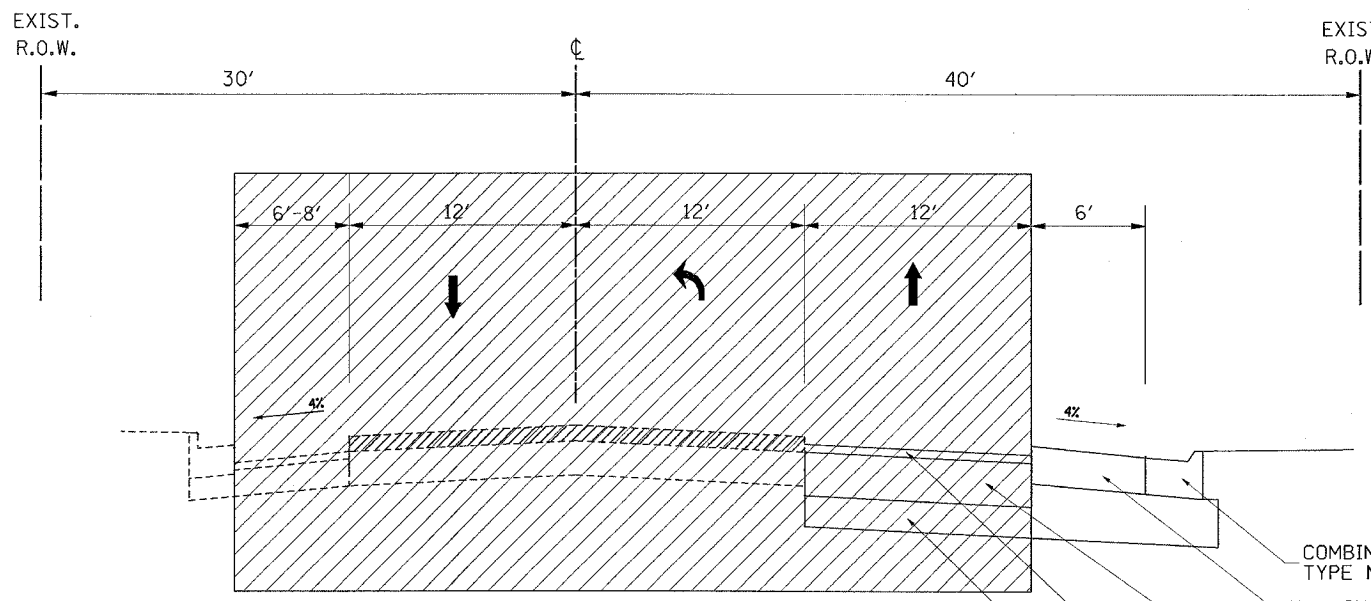
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STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



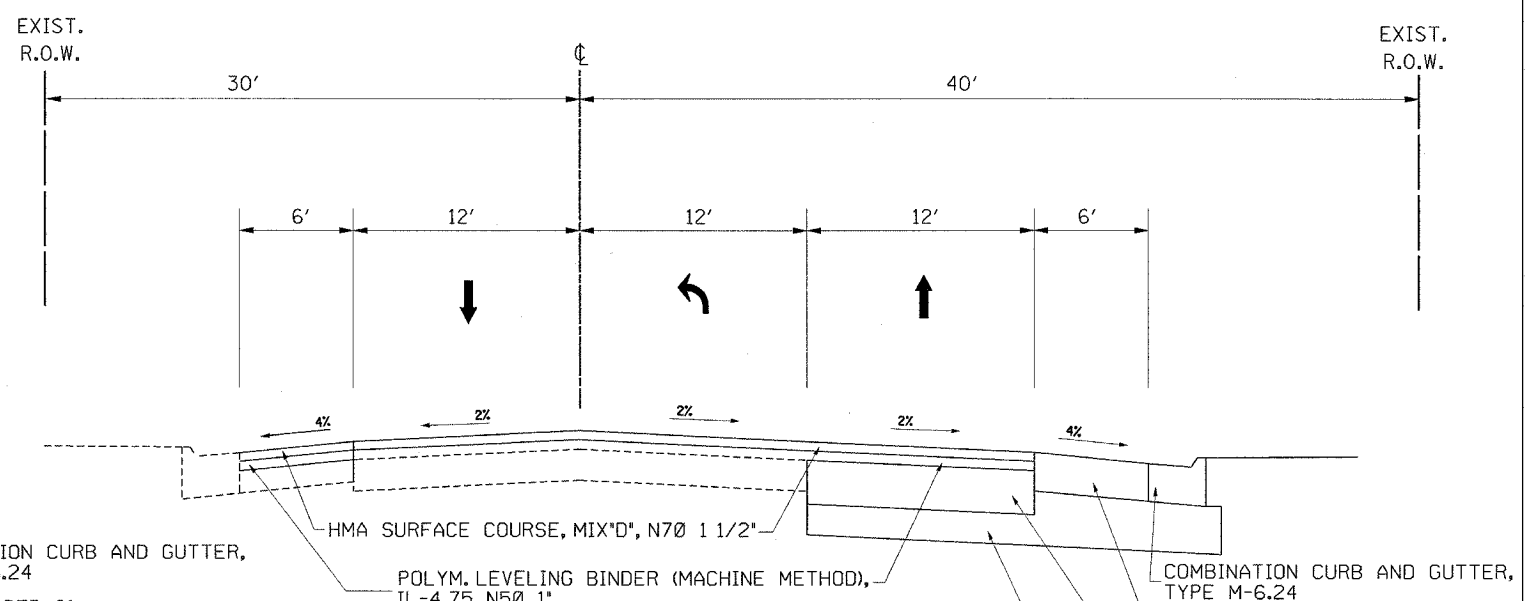
STAGE I TYPICAL SECTION  
TRYON GROVE ROAD  
STA. 4+92 'W' TO 10+00 'W'



STAGE II TYPICAL SECTION  
TRYON GROVE ROAD  
STA. 4+92 'W' TO 10+00 'W'



STAGE III TYPICAL SECTION  
TRYON GROVE ROAD - WEST LEG  
STA. 4+92 'W' TO 10+00 'W'



PROPOSED TYPICAL SECTION  
TRYON GROVE ROAD - WEST LEG  
STA. 4+92 'W' TO 10+00 'W'

- COMBINATION CURB AND GUTTER, TYPE M-6.24
- HMA SHOULDER, 8"
- HMA BASE COURSE WIDENING, 11"
- POLYM. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 1"
- AGGREGATE SUBGRADE, 12"

- COMBINATION CURB AND GUTTER, TYPE M-6.24
- HMA SHOULDER, 8"
- HMA BASE COURSE WIDENING, 11"
- AGGREGATE SUBGRADE, 12"

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**EXISTING & PROPOSED TYPICAL SECTION**  
**TRYON GROVE ROAD - WEST LEG**  
**STA. 4+92 'W' TO 10+00 'W'**

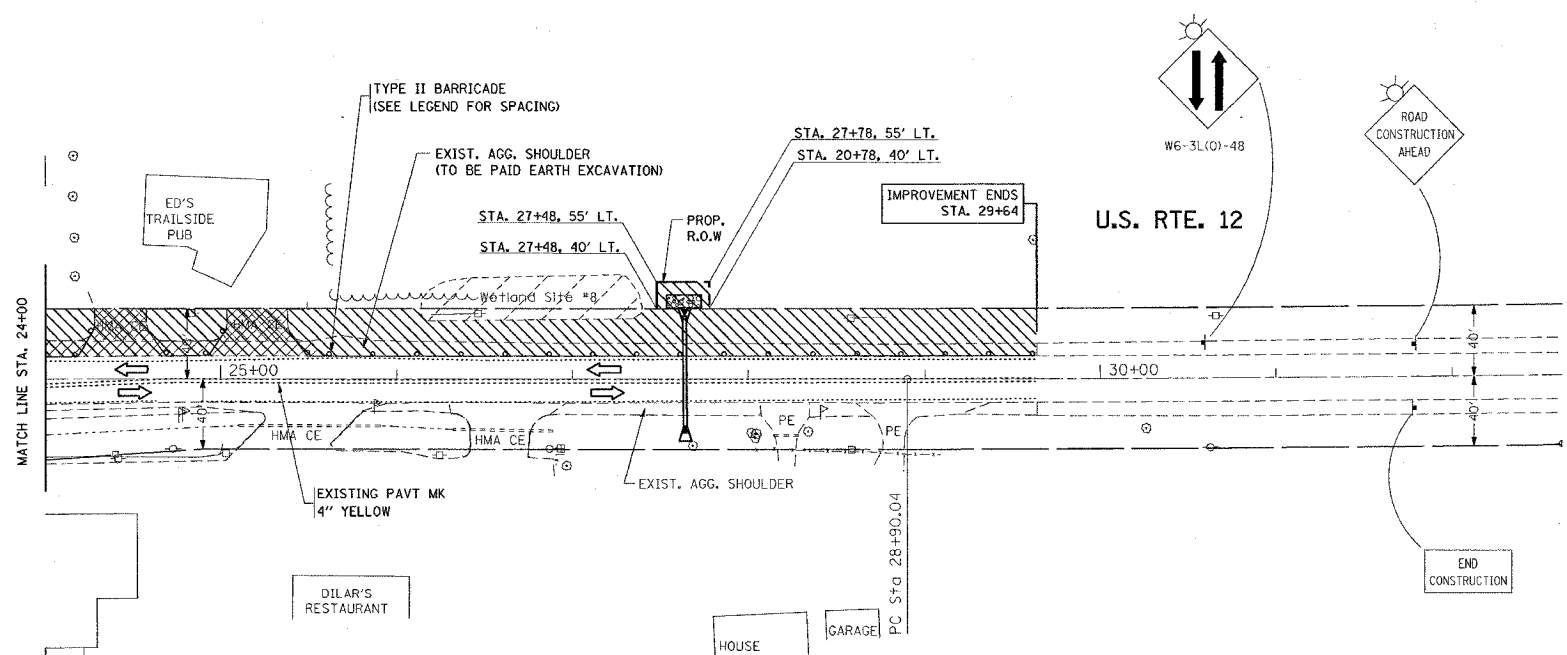
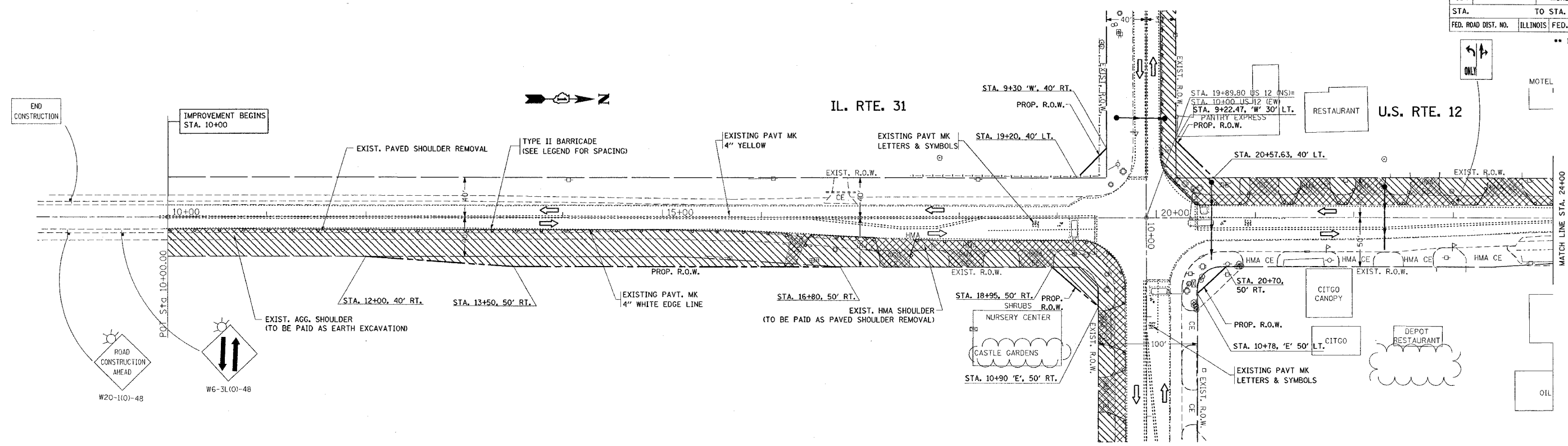
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	**	MCHENRY	56	29
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

\*\* 111 RS-5 & 116 B-1



- LEGEND
- - TYPE II BARRICADE
  - 50' C-C TANGENTS
  - 25' C-C LANE SHIFTS & TAPERS
  - 10' C-C RADII (TYP)
  - WORK ZONE
  - DIRECTION OF TRAFFIC

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

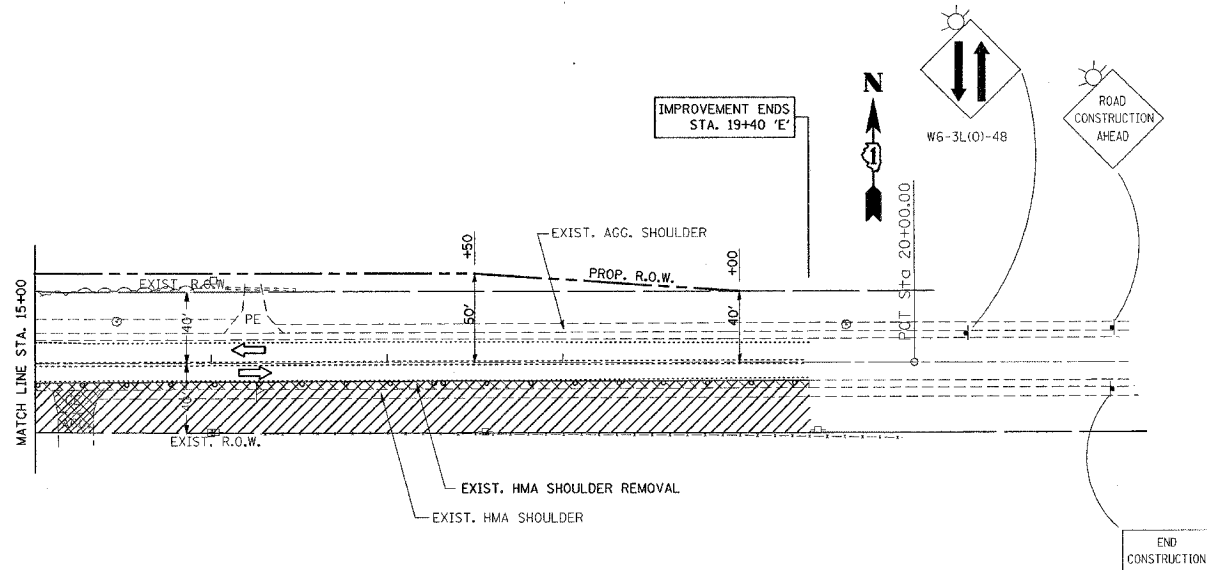
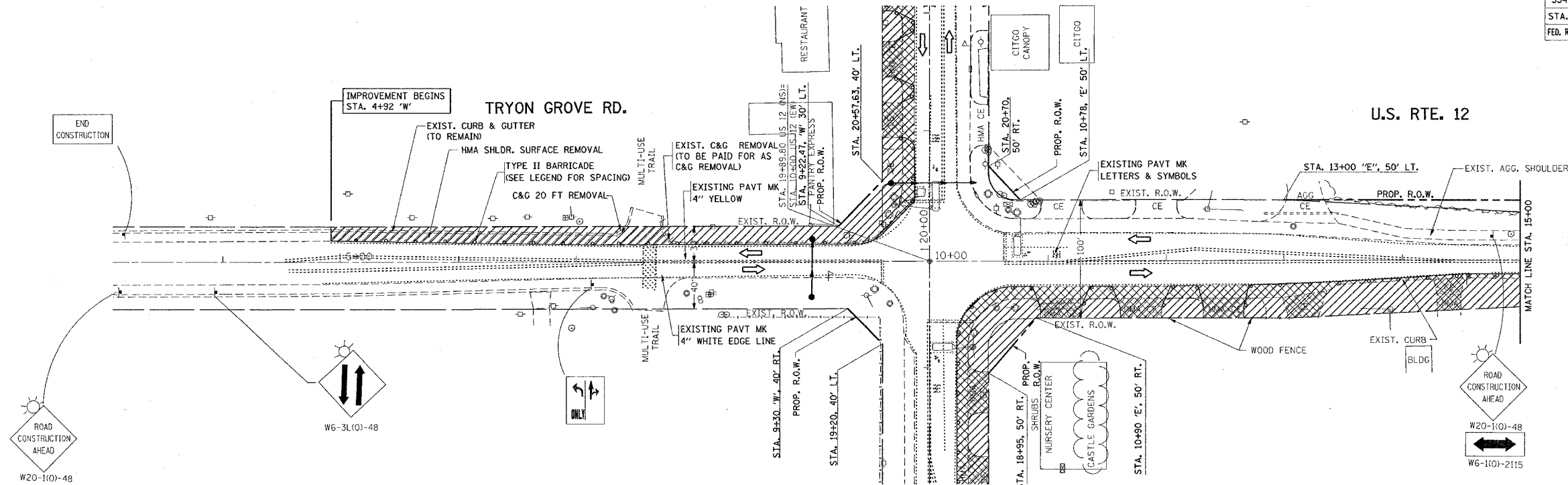
**STAGE I CONSTRUCTION**  
**U.S. RTE. 12 @**  
**IL. RTE. 31/TRYON GROVE DR.**

SCALE: VERT. \_\_\_\_\_  
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DATE \_\_\_\_\_ DRAWN BY \_\_\_\_\_  
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	**	MCHENRY	98	30
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



- LEGEND
- - TYPE II BARRICADE
  - 50' C-C TANGENTS
  - 25' C-C LANE SHIFTS & TAPERS
  - 10' C-C RADII (TYP)
  - ▨ - WORK ZONE
  - ➔ - DIRECTION OF TRAFFIC

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

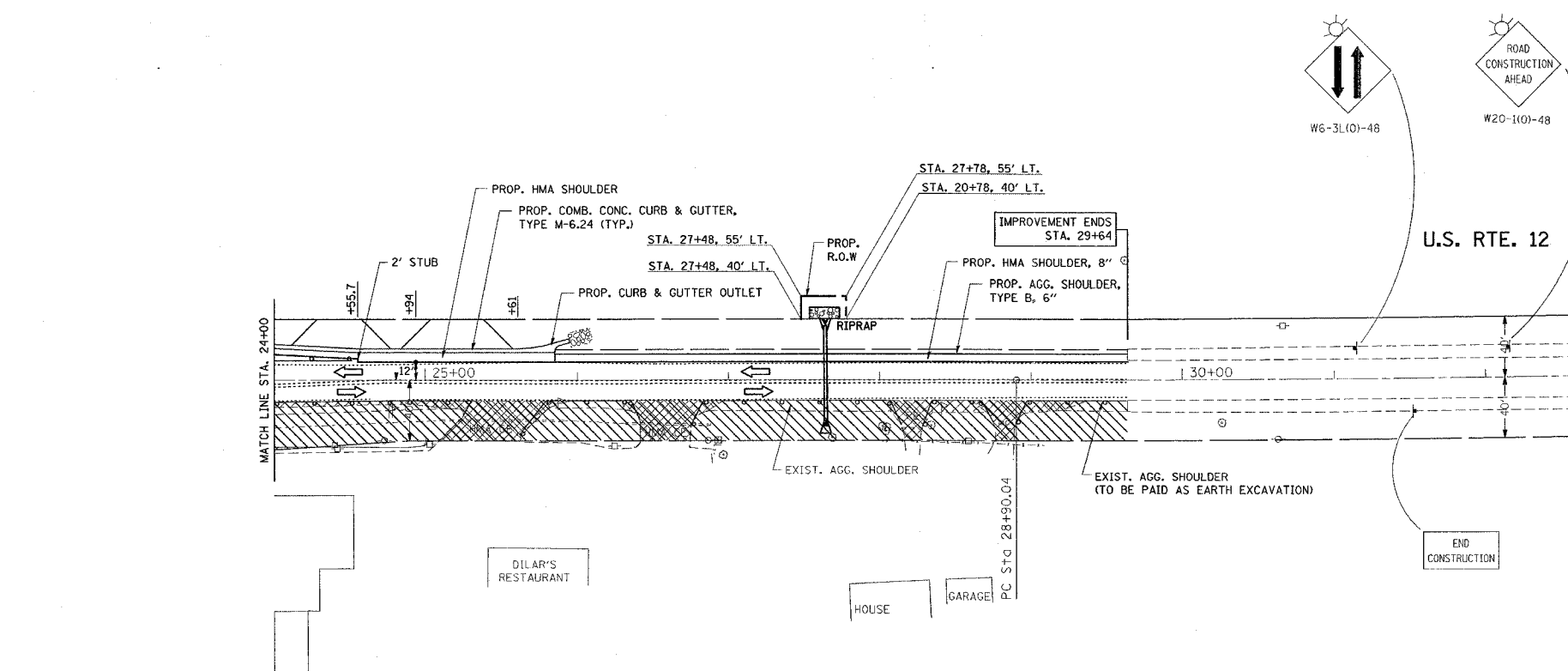
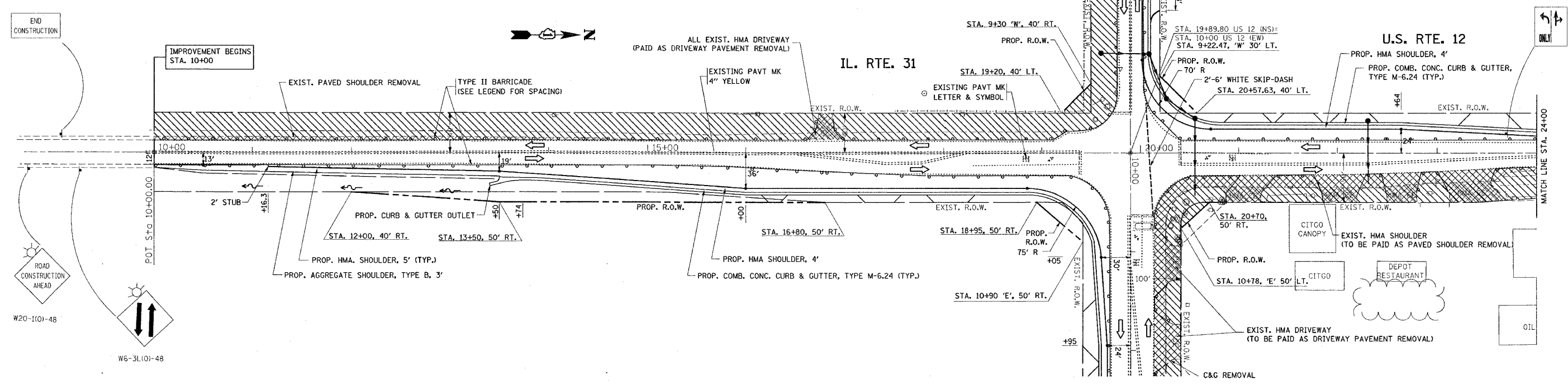
**STAGE I CONSTRUCTION**  
**U.S. RTE. 12 @**  
**IL. RTE. 31/TRYON GROVE DR.**

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DATE \_\_\_\_\_ DRAWN BY \_\_\_\_\_  
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CONTRACT NO. 60A91				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	**	MCHENRY	98	31
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
** 111 RS-5 & 116 B-1				



- LEGEND**
- - TYPE II BARRICADE
  - 50' C-C TANGENTS
  - 25' C-C LANE SHIFTS & TAPERS
  - 10' C-C RADII (TYP)
  - ▨ - WORK ZONE
  - ➔ - DIRECTION OF TRAFFIC

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

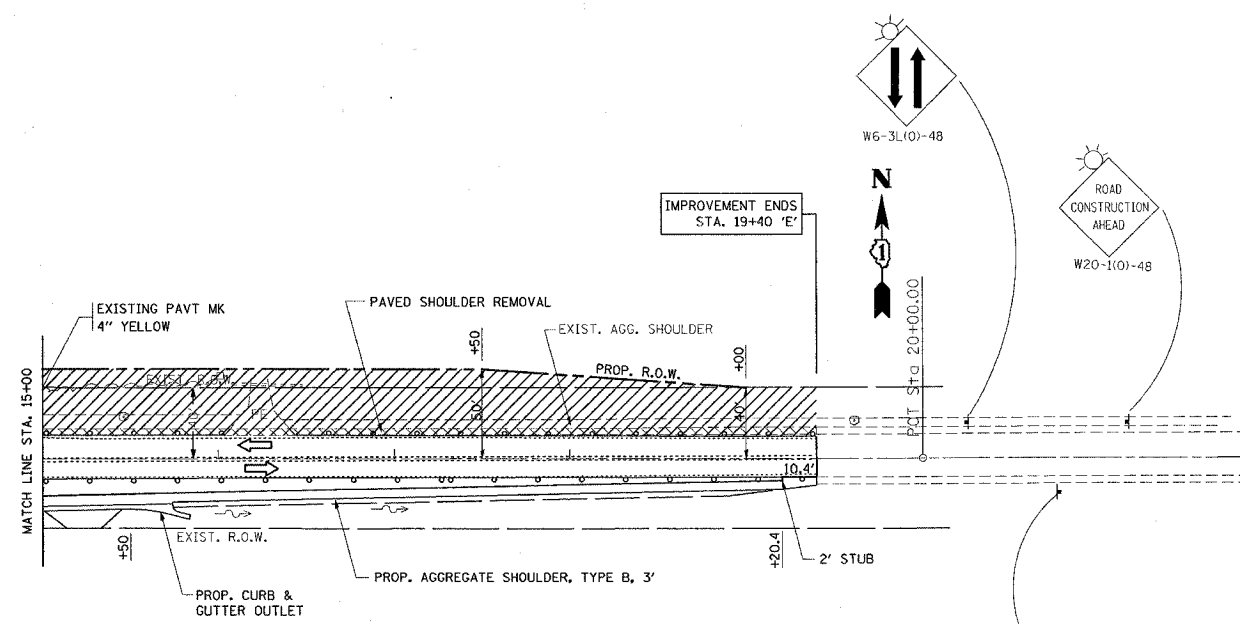
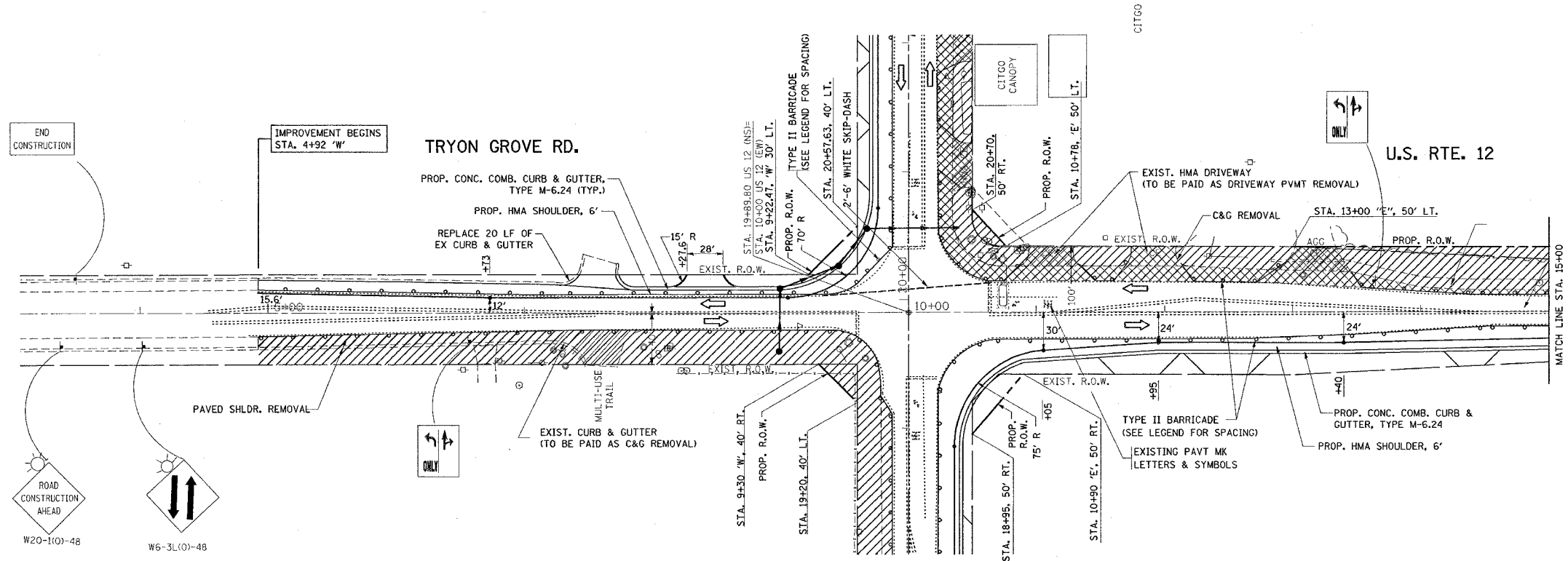
**STAGE II CONSTRUCTION**  
**U.S. RTE. 12 @**  
**IL. RTE. 31/TRYON GROVE DR.**

SCALE: VERT. \_\_\_\_\_  
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DRAWN BY \_\_\_\_\_  
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	**	MCHENRY	38	32
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



- LEGEND
- - TYPE II BARRICADE
  - 50' C-C TANGENTS
  - 25' C-C LANE SHIFTS & TAPERS
  - 10' C-C RADII (TYP)
  - WORK ZONE
  - DIRECTION OF TRAFFIC

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**STAGE II CONSTRUCTION**  
**U.S. RTE. 12 @**  
**IL. RTE. 31/TRYON GROVE DR.**

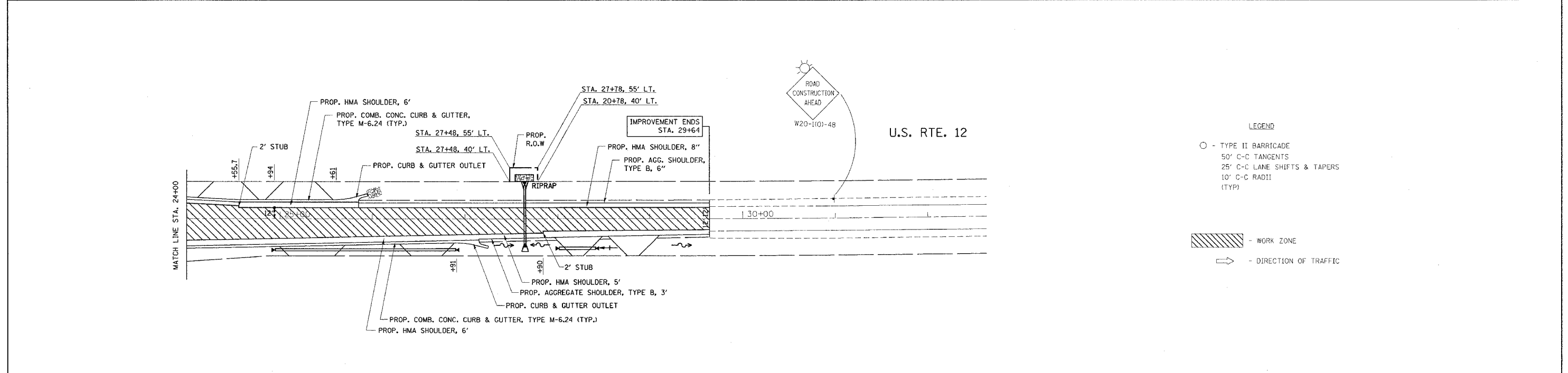
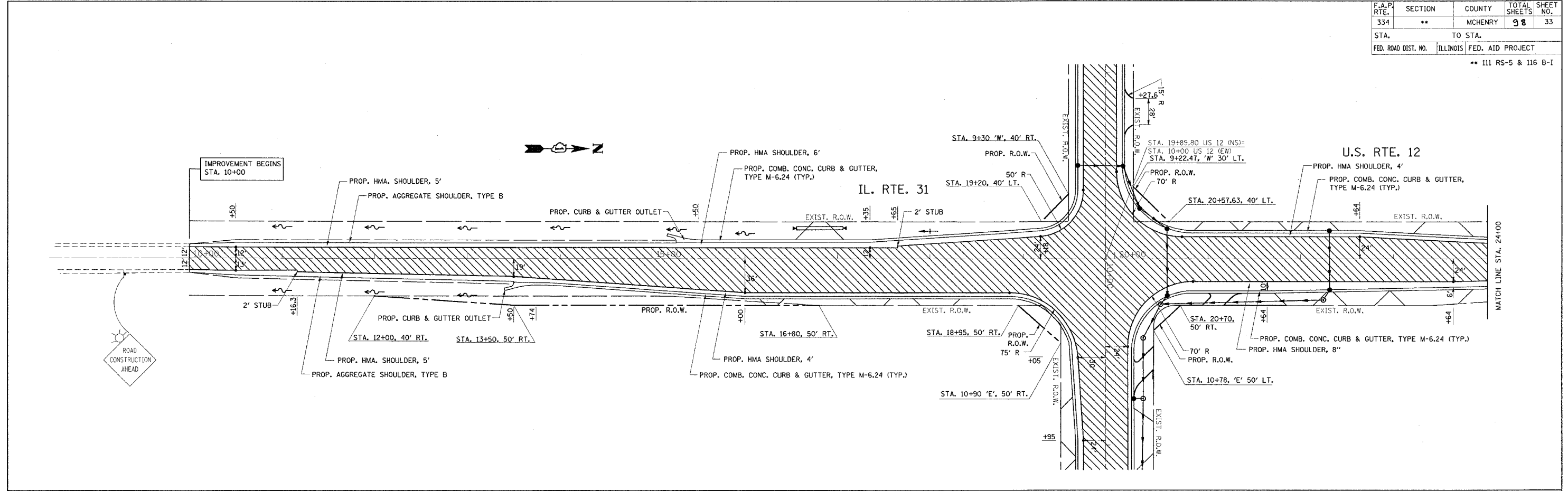
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DATE \_\_\_\_\_ DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

PLOT DATE = 5/10/2007  
 FILE NAME = c:\projects\p1414959\p1414959a032  
 PLOT SCALE = 1/8" = 1'-0"  
 USER NAME = mcdjja



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	**	MCHENRY	98	33
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



- LEGEND
- - TYPE II BARRICADE
  - 50' C-C TANGENTS
  - 25' C-C LANE SHIFTS & TAPERS
  - 10' C-C RADII (TYP)
  - WORK ZONE
  - DIRECTION OF TRAFFIC

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

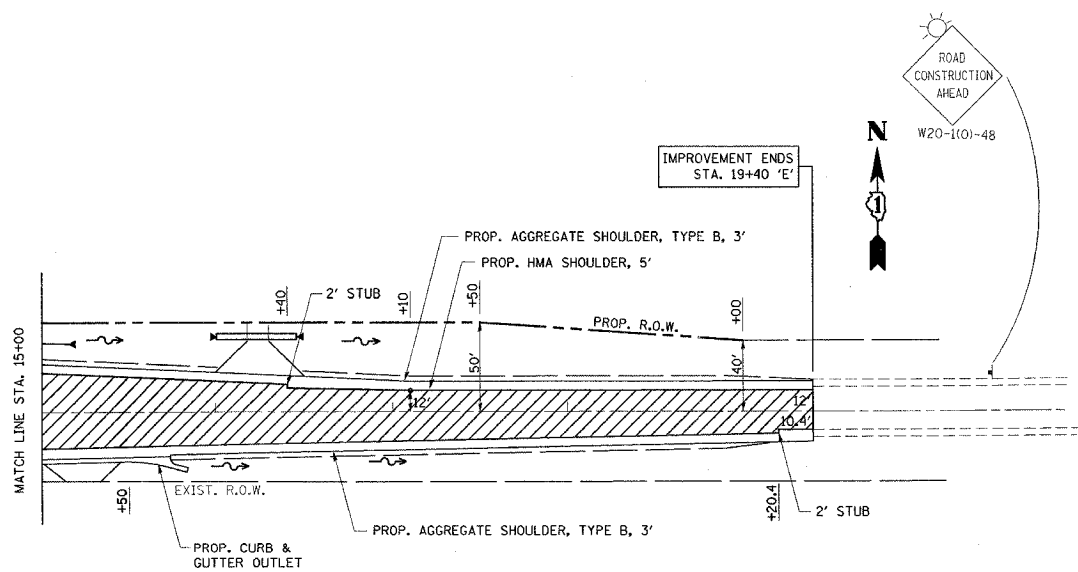
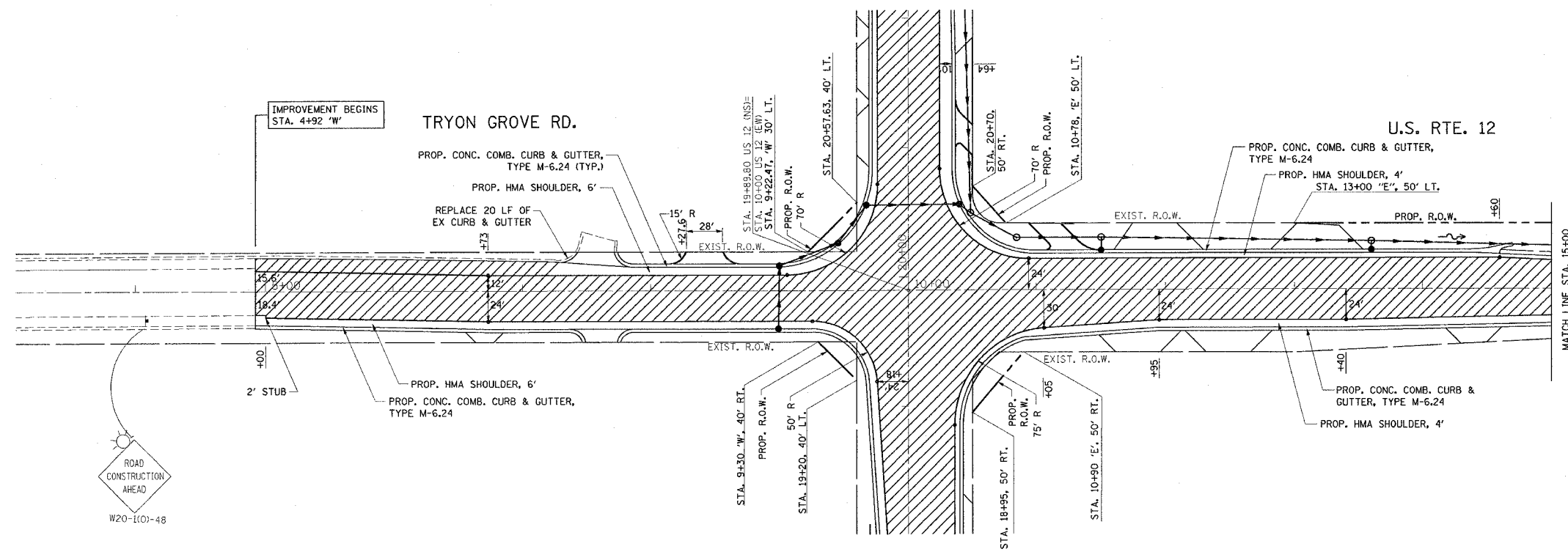
**STAGE III CONSTRUCTION**  
**U.S. RTE. 12 @**  
**IL. RTE. 31/TRYON GROVE DR.**

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_

DATE \_\_\_\_\_ DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

PLOT DATE = 5/18/2007  
 FILE NAME = c:\pvc\jects\p14899\p14899a.mxd  
 PLOT SCALE = 50.000000 / IN.  
 USER NAME = mdujs

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	**	MCHENRY	98	34
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



- LEGEND
- - TYPE II BARRICADE
  - 50' C-C TANGENTS
  - 25' C-C LANE SHIFTS & TAPERS
  - 10' C-C RADII (TYP)
  - WORK ZONE
  - DIRECTION OF TRAFFIC

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**STAGE III CONSTRUCTION  
U.S. RTE. 12 @  
IL. RTE. 31/TRYON GROVE DR.**

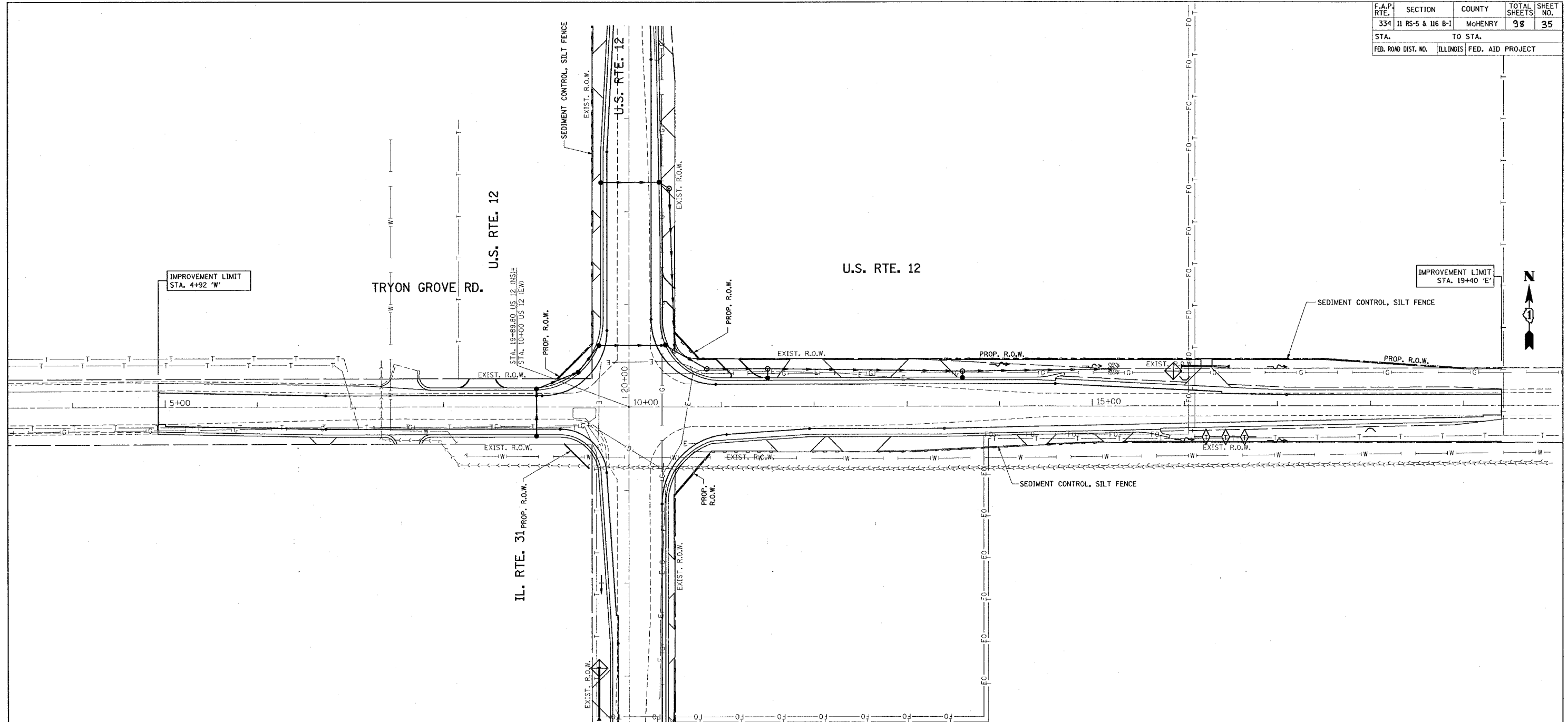
SCALE: VERT.  
DATE:            HORIZ.

DRAWN BY  
CHECKED BY

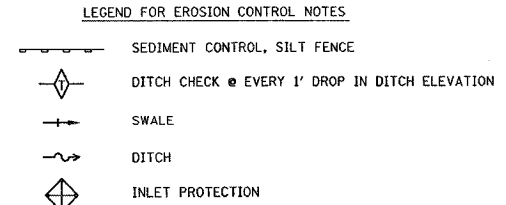
\*REF-er003

CONTRACT NO. 60A91

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	11 RS-5 & 116 B-1	MCHEMRY	98	35
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



- TEMPORARY CONTROL SEEDING TO BE PROVIDED AT ALL ERODIBLE BARE EARTH AREAS, REFER TO SPECIAL PROVISION.
- NPDES PERMIT IS REQUIRED FOR THE PROJECT.
- THE CONTRACTORS SHALL PROVIDE AND MAINTAIN INLET PROTECTION AT ALL PROPOSED DRAINAGE STRUCTURES AND AT OTHER LOCATIONS DIRECTED BY THE ENGINEER AND/OR SHOWN ON THE PLANS. INLET PROTECTION SHALL BE PLACED IMMEDIATELY AFTER THE AREA INVOLVED HAS BEEN DISTURBED.
- ALL EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATION AND THE APPLICABLE STATE STANDARDS SPECIFICATION AND OF THE APPLICABLE STATE STANDARDS FOR THE ENTIRE DURATION OF THE CONTRACT OR UNTIL SUCH A TIME AS DIRECTED BY THE ENGINEER.
- AT ANY AREA WHERE THERE IS NON PROPOSED GRADING, THE EXISTING GROUND COVER SHALL REMAIN.
- "WETLANDS" SIGN SHALL BE ATTACHED TO THE SEDIMENT CONTROL SILT FENCE POST AT EACH WETLAND, SIGNS ARE AVAILABLE FROM THE ROADSIDE DEVELOPMENT UNIT (847)705-4171.



NOTE: WETLAND SIGN



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**EROSION CONTROL PLAN**  
**U.S. RTE. 12 @**  
**IL. RTE. 31 (TRYON GROVE RD.)**

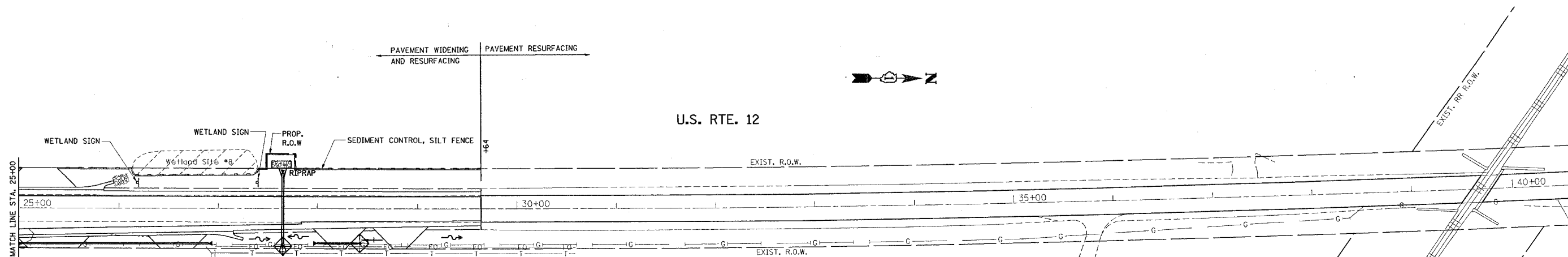
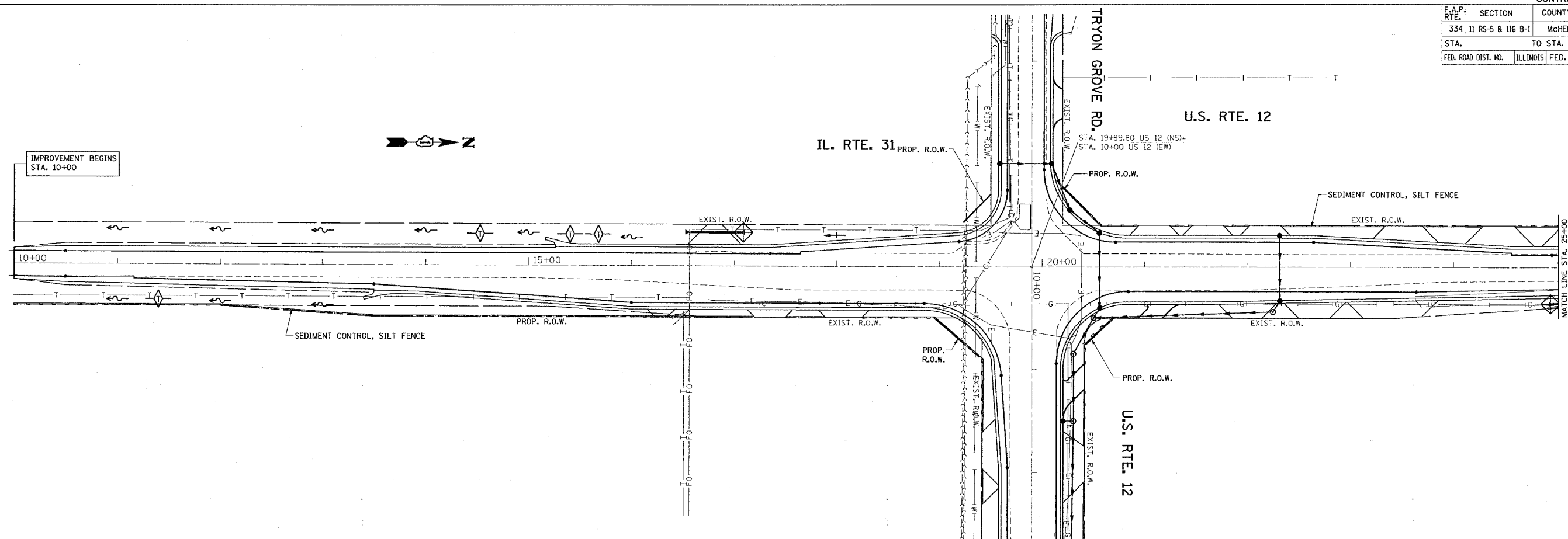
SCALE: VERT. 1"=50'  
 HORIZ. DATE 5/10/2007  
 DRAWN BY  
 CHECKED BY

PLOT DATE = 5/10/2007  
 FILE NAME = c:\projects\11489\11489\erocn.dgn  
 PLOT SCALE = 3/8"=1'-0"  
 USER NAME = bawnd

\*REF-er001  
\*REF-er002

CONTRACT NO. 60A91

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	11 RS-5 & 116 B-1	McHENRY	98	36
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



**LEGEND FOR EROSION CONTROL NOTES**

- SEDIMENT CONTROL, SILT FENCE
- ◇ DITCH CHECK @ EVERY 1' DROP IN DITCH ELEVATION
- SWALE
- DITCH
- ◇ INLET PROTECTION

NOTE: WETLAND SIGN



1. TEMPORARY CONTROL SEEDING TO BE PROVIDED AT ALL ERODIBLE BARE EARTH AREAS, REFER TO SPECIAL PROVISION.
2. NPDES PERMIT IS REQUIRED FOR THE PROJECT.
3. THE CONTRACTORS SHALL PROVIDE AND MAINTAIN INLET PROTECTION AT ALL PROPOSED DRAINAGE STRUCTURES AND AT OTHER LOCATIONS DIRECTED BY THE ENGINEER AND/OR SHOWN ON THE PLANS. INLET PROTECTION SHALL BE PLACED IMMEDIATELY AFTER THE AREA INVOLVED HAS BEEN DISTURBED.
4. ALL EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATION AND THE APPLICABLE STATE STANDARDS SPECIFICATION AND OF THE APPLICABLE STATE STANDARDS FOR THE ENTIRE DURATION OF THE CONTRACT OR UNTIL SUCH A TIME AS DIRECTED BY THE ENGINEER.
5. AT ANY AREA WHERE THERE IS NON PROPOSED GRADING, THE EXISTING GROUND COVER SHALL REMAIN.
6. "WETLANDS" SIGN SHALL BE ATTACHED TO THE SEDIMENT CONTROL SILT FENCE POST AT EACH WETLAND, SIGNS ARE AVAILABLE FROM THE ROADSIDE DEVELOPMENT UNIT (847)705-4171

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**EROSION CONTROL PLAN**  
U.S. RTE. 12 @  
IL. RTE. 31 (TRYON GROVE RD.)

SCALE: VERT. 1"=50'  
HORIZ. 1"=50'  
DATE 5/10/2007

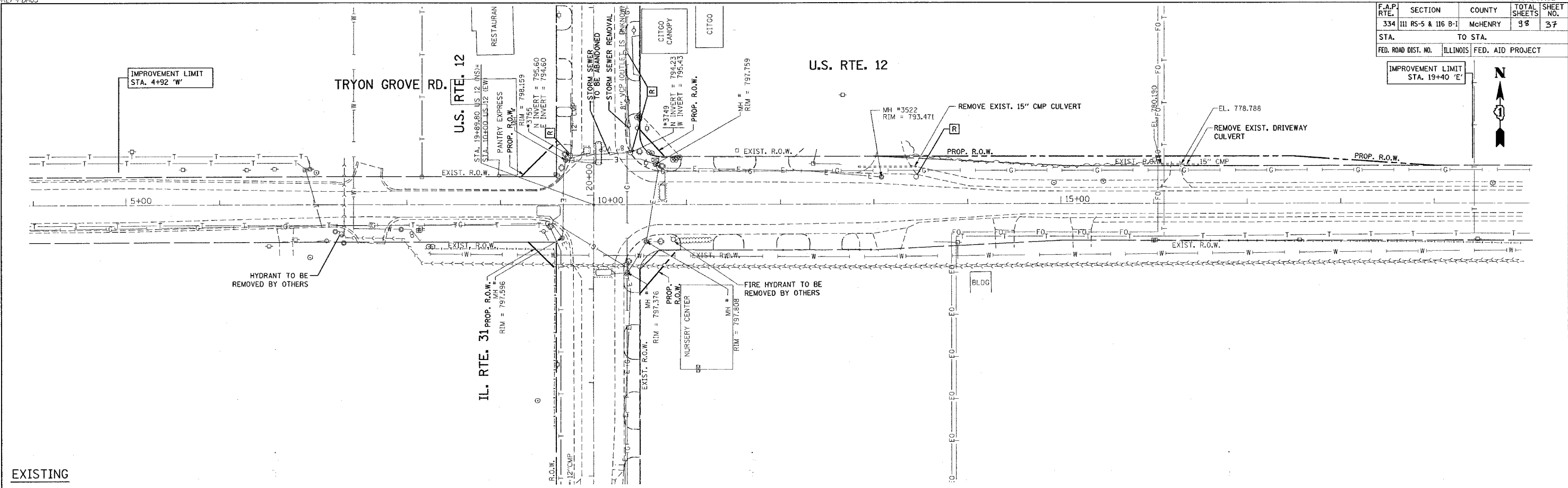
DRAWN BY  
CHECKED BY

PLOT DATE = 5/10/2007  
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USER NAME = bauerdl

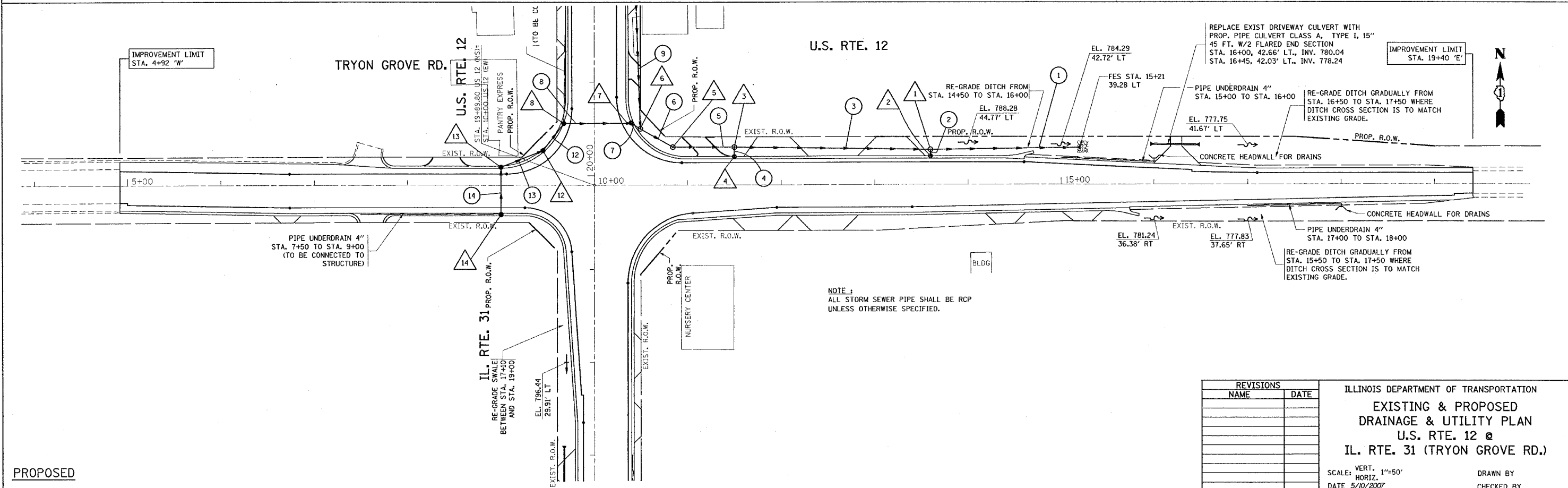
REF-EDR03  
REF-PDR03

CONTRACT NO. 60A91

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	III RS-5 & 116 B-1	MCHENRY	98	37
STA. TO STA.		ILLINOIS FED. AID PROJECT		



EXISTING



PROPOSED

PLOT DATE = 5/10/2007  
FILE NAME = c:\projects\114895\ah.d\plan2.dgn  
PLOT SCALE = 30.0000 / IN.  
USER NAME = bauerd

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
EXISTING & PROPOSED  
DRAINAGE & UTILITY PLAN  
U.S. RTE. 12 @  
IL. RTE. 31 (TRYON GROVE RD.)

SCALE: VERT. 1"=50'  
HORIZ.                      

DATE 5/10/2007

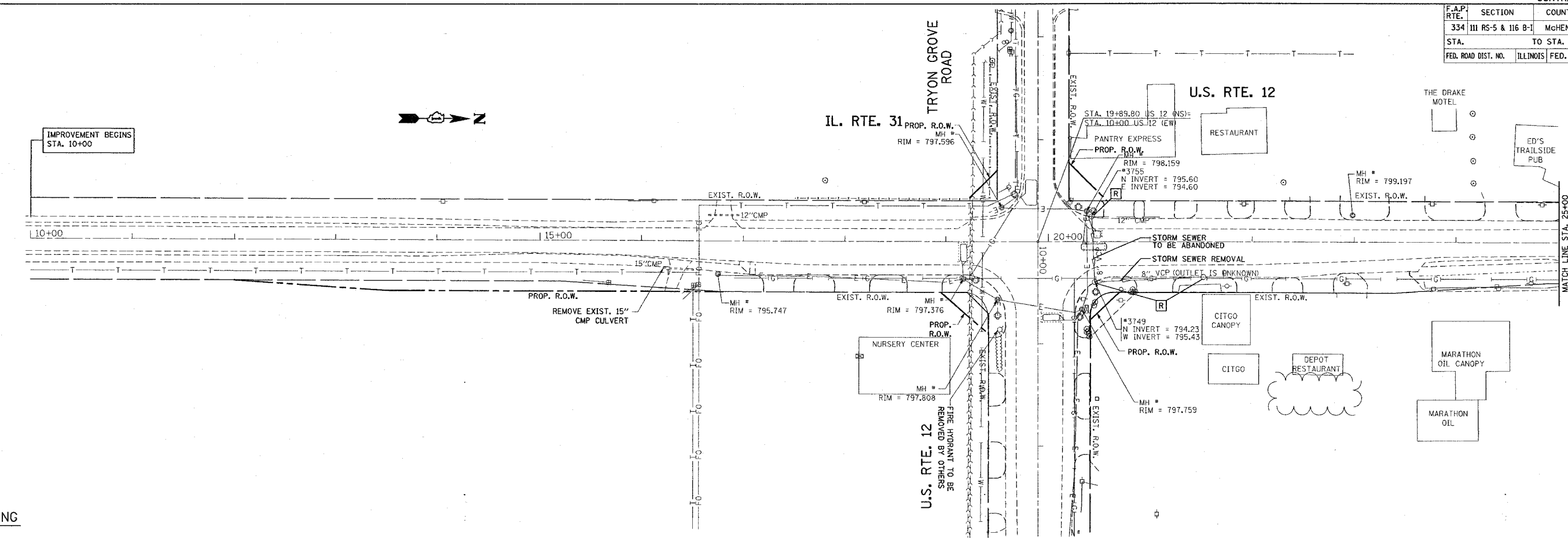
DRAWN BY  
CHECKED BY

NOTE:  
ALL STORM SEWER PIPE SHALL BE RCP  
UNLESS OTHERWISE SPECIFIED.

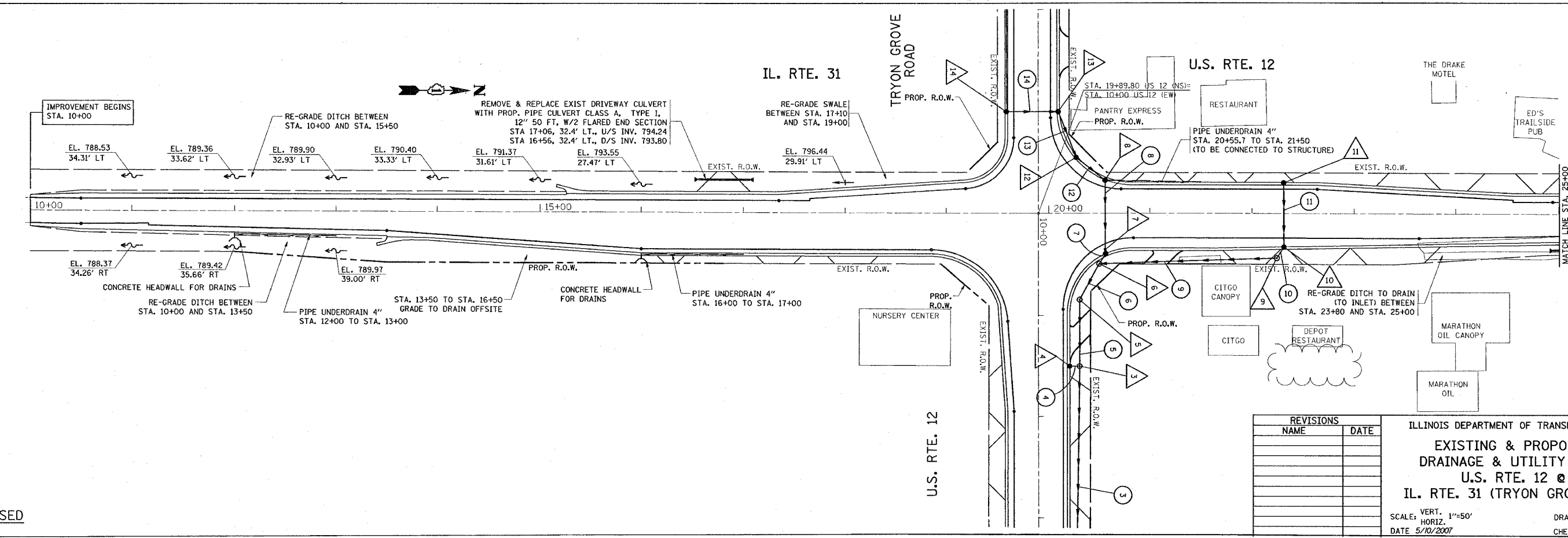
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REF-PDR01

CONTRACT NO. 60A91

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	III RS-5 & 116 B-1	McHENRY	98	38
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



EXISTING



PROPOSED

PLOT DATE = 5/10/2007  
FILE NAME = c:\projects\11495\sh\_drain2.dgn  
PLOT SCALE = 1/8\"/>

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**EXISTING & PROPOSED  
 DRAINAGE & UTILITY PLAN**  
**U.S. RTE. 12 @  
 IL. RTE. 31 (TRYON GROVE RD.)**

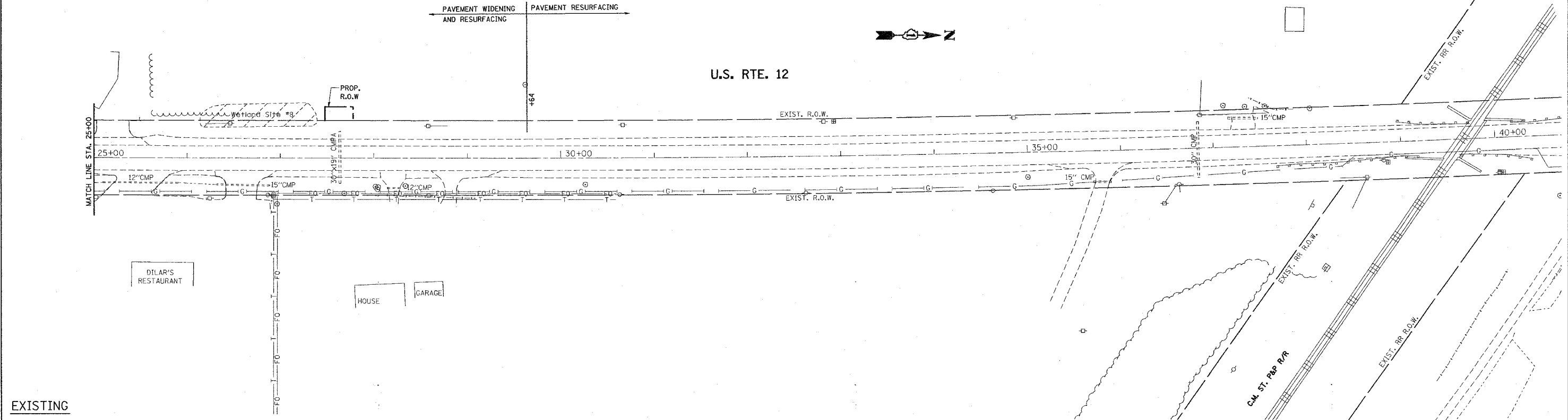
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 HORIZ. 1"=100'  
 DATE 5/10/2007

DRAWN BY  
 CHECKED BY

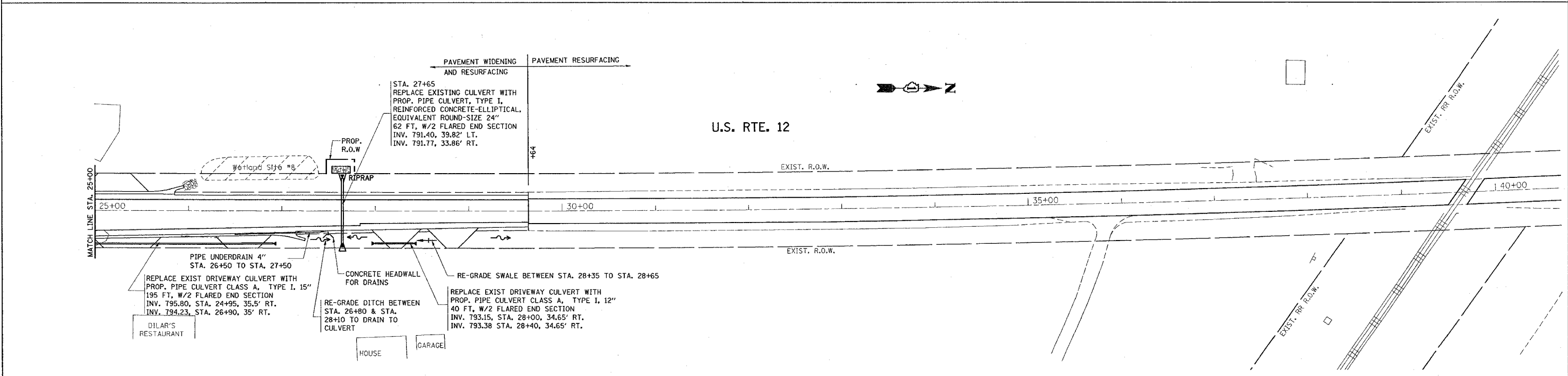
REF-EDR02  
REF-PDR02

CONTRACT NO. 60A91

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	111 RS-5 & 116 B-1	McHENRY	96	33
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



EXISTING



PROPOSED

PLOT DATE = 5/10/2007  
FILE NAME = c:\p\m\m\m\114899\ah.drain2.dgn  
PLOT SCALE = 5/8"=1'-0" / IN.  
USER NAME = baward

REVISIONS	
NAME	DATE

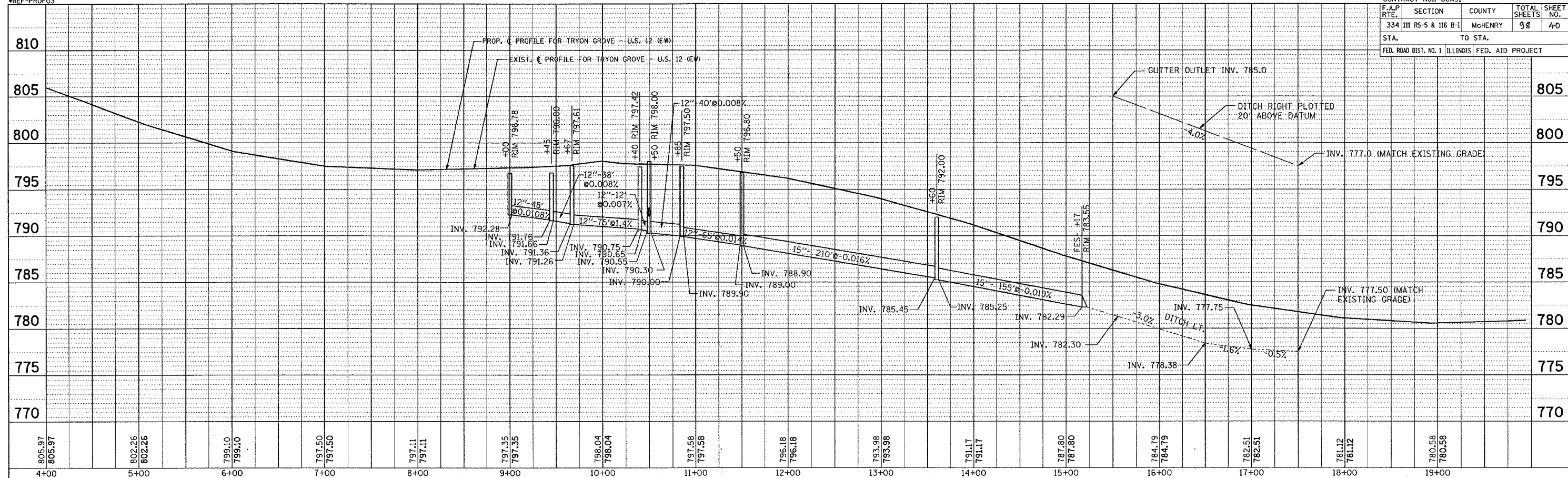
ILLINOIS DEPARTMENT OF TRANSPORTATION  
EXISTING & PROPOSED  
DRAINAGE & UTILITY PLAN  
U.S. RTE. 12 @  
IL. RTE. 31 (TRYON GROVE RD.)

SCALE: VERT. 1"=50'  
HORIZ. DATE 5/10/2007

DRAWN BY  
CHECKED BY

REF-PROF03

CONTRACT NO.: 60A91				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334 III RS-5 & 116 B-1		MCHEMRY	98	40
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



PLAN	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	DATE		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	DATE		

EXIST. & PROP. DRAINAGE PROFILE  
 U.S. RTE. 12 @  
 IL. RTE. 31 (TRYON GROVE RD.)  
 SCALE: VERT. 1"=5'  
 HORIZ. 1"=50'  
 DATE: 5/10/2007  
 DRAWN BY:  
 CHECKED BY:

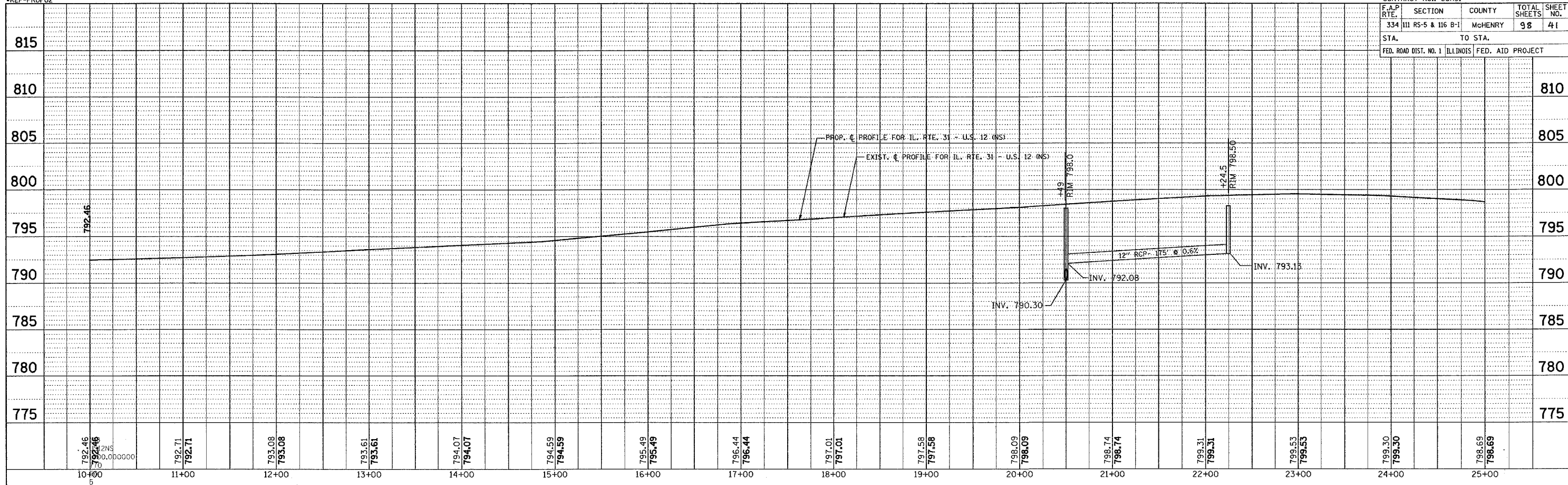


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REF-PROF02

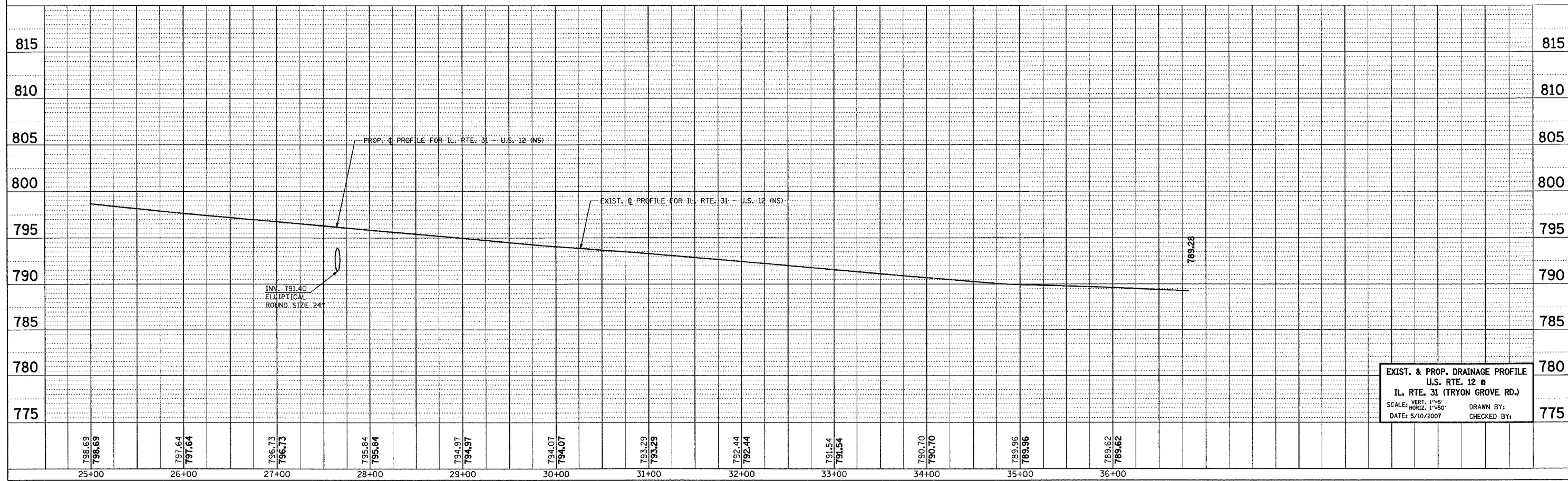
CONTRACT NO.: 60A91

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	111 RS-5 & 116 B-1	MCHEMRY	98	41
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

PLAN	SURVEYED	BY	DATE
PLotted	BY		
NOTE BOOK	NO.		
RT. OF WAY			
CHECKED			
DATE			



PROFILE	SURVEYED	BY	DATE
PLotted	BY		
NOTE BOOK	NO.		
STRUCTURE			
NOTATIONS			



EXIST. & PROP. DRAINAGE PROFILE  
U.S. RTE. 12 @  
IL. RTE. 31 (TRYON GROVE RD.)  
SCALE: VERT. 1"=5'  
HORIZ. 1"=50'  
DATE: 5/10/2007  
DRAWN BY:  
CHECKED BY:

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	**	MCHENRY	98	42

STA.	TO STA.
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT

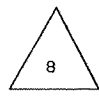
\*\* 111 RS-5 & 116 B-1

1 PROP. 15" STORM SEWER,  
CLASS A, TY II, 155' @ 2.0%  
WITH ONE FLARED END SECTION  
US 12 (E), STA 15+21, 39.28' LT  
INV. 782.30 (E)

14 PROP. 12" STORM SEWER,  
CLASS A, TY I, 48' @ 1.56%  
T.B.F.: 6.34 CY

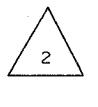


MH TY A, 4' DIA.  
TYPE I FRAME, CLOSED LID  
US 12 (E), STA 13+60, 37.3' LT  
T.O.G. 792.0  
INV. 785.45 (W)  
INV. 785.25 (E)  
INV. 786.68 (S)

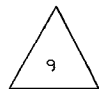


CB TY C, 2' DIA.  
TYPE 24 FRAME AND GRATE  
US 12 (N), STA 20+56, 34.34' LT  
T.O.G. 797.61  
INV. 791.26 (E)  
INV. 791.36 (SW)

2 PROP. 12" STORM SEWER,  
CLASS A, TY II, 6' @ 1.0%

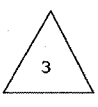


CB TY C, 2' DIA.  
TYPE 24 FRAME AND GRATE  
US 12 (E), STA 13+60, 29.3' LT  
T.O.G. 791.67  
INV. 786.75 (N)

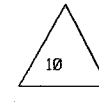


MH TY A, 4' DIA.  
TYPE I FRAME, CLOSED LID  
US 12 (N), STA 22+24, 43.8' RT  
T.O.G. 798.5  
INV. 793.33 (NW)  
INV. 793.13 (S)

3 PROP. 15" STORM SEWER,  
CLASS A, TY II, 210' @ 1.64%  
T.B.F.: 85 CY

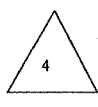


MH TY A, 4' DIA.  
TYPE I FRAME, CLOSED LID  
US 12 (E), STA 11+50, 40.5' LT  
T.O.G. 796.80  
INV. 789.00 (W)  
INV. 788.90 (E)  
INV. 791.00 (S)

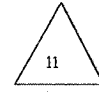


CB TY C, 2' DIA.  
TYPE 24 FRAME AND GRATE  
US 12 (N), STA 22+31, 33.6' RT  
T.O.G. 798.5  
INV. 793.73 (W)  
INV. 793.43 (SE)

4 PROP. 12" STORM SEWER,  
CLASS A, TY II, 10' @ 1.0%

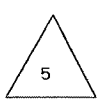


CB TY C, 2' DIA.  
TYPE 24 FRAME AND GRATE  
US 12 (E), STA 11+50, 29.3' LT  
T.O.G. 796.26  
INV. 791.09 (N)

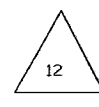


CB TY C, 2' DIA.  
TYPE 24 FRAME AND GRATE  
US 12 (N), STA 22+31, 29.2' LT  
T.O.G. 798.7  
INV. 794.35 (E)

5 PROP. 15" STORM SEWER,  
CLASS A, TY II, 65' @ 1.38%  
T.B.F.: 22 CY

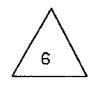


MH TY A, 4' DIA.  
TYPE I FRAME, CLOSED LID  
US 12 (E), STA 10+85, 40.3' LT  
T.O.G. 797.5  
INV. 790.00 (NW)  
INV. 789.90 (E)

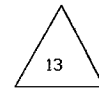


CB TY C, 2' DIA.  
TYPE 24 FRAME AND GRATE  
US 12 (N), STA 20+25, 57.2' LT  
T.O.G. 796.80  
INV. 791.76 (SW)  
INV. 791.66 (NE)

6 PROP. 12" STORM SEWER,  
CLASS A, TY II, 40' @ 1.4%



MH TY A, 4' DIA.  
TYPE I FRAME, CLOSED LID  
US 12 (N), STA 20+50, 49.6' RT  
T.O.G. 798.0  
INV. 792.08 (N)  
INV. 790.30 (SE)  
INV. 790.55 (W)

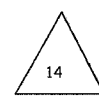


CB TY C, 2' DIA.  
TYPE 24 FRAME AND GRATE  
TRYON G. RD., STA 9+00, 19.2' LT  
T.O.G. 796.78  
INV. 792.28 (NE)  
INV. 792.38 (S)

7 PROP. 12" STORM SEWER,  
CLASS A, TY II, 9' @ 1.0%



CB TY C, 2' DIA.  
TYPE 24 FRAME AND GRATE  
US 12 (N), STA 20+56, 41.4' RT  
T.O.G. 797.42  
INV. 790.65 (SE)  
INV. 790.75 (W)



CB TY C, 2' DIA.  
TYPE 24 FRAME AND GRATE  
TRYON G. RD., STA 9+00, 31.2' RT  
T.O.G. 796.57  
INV. 793.13 (N)

8 PROP. 12" STORM SEWER,  
CLASS A, TY II, 75' @ 0.68%  
T.B.F.: 47 CY

9 PROP. 12" STORM SEWER,  
CLASS A, TY II, 175' @ 0.6%  
T.B.F.: 20.9 CY

10 PROP. 12" STORM SEWER,  
CLASS A, TY II, 11' @ 1%

11 PROP. 12" STORM SEWER,  
CLASS A, TY I, 63' @ 1.0%  
T.B.F.: 11.2 CY

12 PROP. 12" STORM SEWER,  
CLASS A, TY II, 38' @ 0.80%  
T.B.F.: 24.6 CY

13 PROP. 12" STORM SEWER,  
CLASS A, TY II, 46' @ 1.13%

NOTE:  
ALL OFFSETS OF CATCH BASINS ARE MESURED TO THE CENTER OF THE FRAME

PLOT DATE = 5/18/2007  
FILE NAME = c:\p\projects\111899\111899.dwg  
PLOT SCALE = 50.000000' / IN.  
USER NAME = mchjlp

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

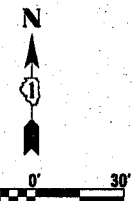
**DRAINAGE SCHEDULE**  
**U.S. RTE. 12 @**  
**IL. RTE. 31 /TRYON GROVE RD.**

SCALE: VERT. \_\_\_\_\_  
HORIZ. \_\_\_\_\_

DATE \_\_\_\_\_ DRAWN BY \_\_\_\_\_  
CHECKED BY \_\_\_\_\_

PART OF SECTION 21, T46N, R8 EAST OF THE 3rd PM, MCHENRY COUNTY, ILLINOIS

BASIS OF BEARINGS IS THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE (NAD 83).



LEGEND

- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT LINE
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER QUARTER SECTION LINE
- PROPERTY (DEED) LINE
- APR APPARENT PROPERTY LINE
- MEASURED DIMENSION
- 123.45 (COMP) COMPUTED DIMENSION
- 123.45(1) RECORDED DIMENSION
- FOUND IRON PIPE OR IRON ROD
- SET 3/8 INCH IRON ROD
- PERMANENT SURVEY MONUMENT, I.D.O.T. STD. 2135 (TO BE SET BY OTHERS)
- CUT CROSS FOUND OR SET
- SAME OWNERSHIP
- TEL EXISTING TELEPHONE SPlice BOX
- LG7 EXISTING STREET LIGHT
- MAIL BOX EXISTING MAIL BOX
- WELL EXISTING WELL HEAD

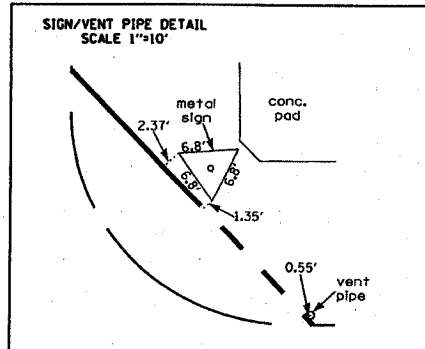
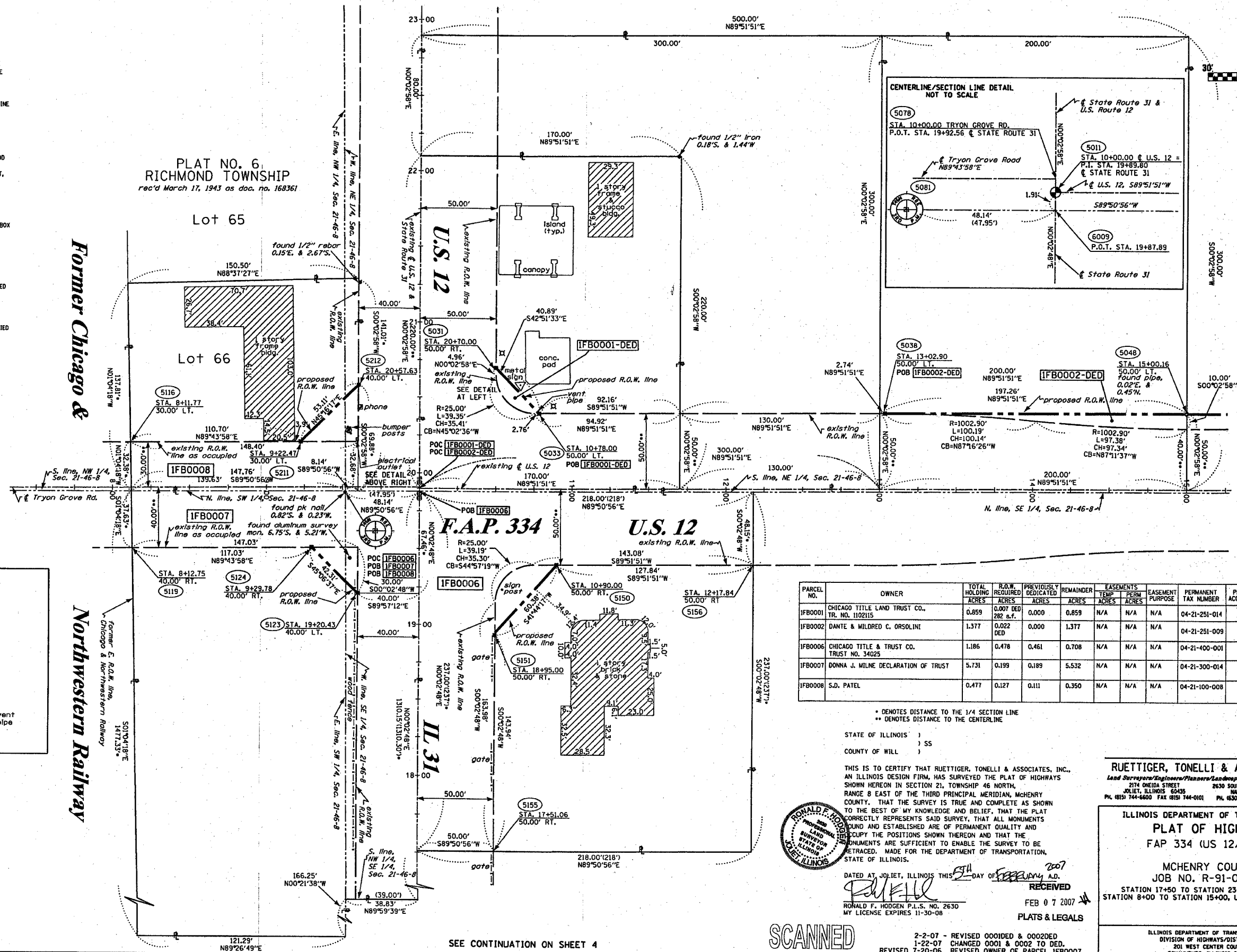
- STAKING OF PROPOSED RIGHT OF WAY. SET 3/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY DESCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. SET 3/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER 20 INCHES BELOW GROUND SURFACE TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY DESCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.



PLAT NO. 6 RICHMOND TOWNSHIP rec'd March 17, 1943 as doc. no. 168361

Former Chicago & Northwestern Railway

Northwestern Railway



PARCEL NO.	OWNER	TOTAL HOLDING ACRES	R.O.W. REQUIRED ACRES	PREVIOUSLY DEDICATED ACRES	REMAINDER ACRES	EASEMENTS TEMP ACRES	EASEMENTS PERM ACRES	EASEMENT PURPOSE	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
IFB0001	CHICAGO TITLE LAND TRUST CO., TR. NO. 110215	0.859	0.007 DED 282 a.f.	0.000	0.859	N/A	N/A	N/A	04-21-251-014	
IFB0002	DANTE & MILDRED C. ORSOLINI	1.377	0.022 DED	0.000	1.377	N/A	N/A	N/A	04-21-251-009	
IFB0006	CHICAGO TITLE & TRUST CO. TRUST NO. 34025	1.186	0.478	0.461	0.708	N/A	N/A	N/A	04-21-400-001	
IFB0007	DONNA J. MILNE DECLARATION OF TRUST	5.731	0.199	0.189	5.532	N/A	N/A	N/A	04-21-300-014	
IFB0008	S.D. PATEL	0.477	0.127	0.111	0.350	N/A	N/A	N/A	04-21-100-008	

\* DENOTES DISTANCE TO THE 1/4 SECTION LINE  
\*\* DENOTES DISTANCE TO THE CENTERLINE

STATE OF ILLINOIS )  
                                  ) SS  
COUNTY OF WILL )

THIS IS TO CERTIFY THAT RUETTIGER, TONELLI & ASSOCIATES, INC., AN ILLINOIS DESIGN FIRM, HAS SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 21, TOWNSHIP 46 NORTH, RANGE 8 EAST OF THE THIRD PRINCIPAL MERIDIAN, MCHENRY COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT JOIET, ILLINOIS THIS 7th DAY OF FEBRUARY 2007  
RONALD F. HODGEN P.L.S. NO. 2630 MY LICENSE EXPIRES 11-30-08  
RECEIVED  
FEB 07 2007  
PLATS & LEGALS

RUETTIGER, TONELLI & ASSOCIATES, INC.  
Lead Surveyors/Engineers/Planners/Landscape Architects/C.L.S. Consultants  
2174 OHEDA STREET  
JOIET, ILLINOIS 60455  
PH. (815) 744-6600 FAX (815) 744-0101 PH. (630) 420-7790 FAX (630) 420-7791

ILLINOIS DEPARTMENT OF TRANSPORTATION  
PLAT OF HIGHWAYS  
FAP 334 (US 12/IL 31)

MCHENRY COUNTY  
JOB NO. R-91-025-01  
STATION 17+50 TO STATION 23+00, U.S. 12/IL 31  
STATION 8+00 TO STATION 15+00, US 12/TRYON GROVE RD.

SHEET 2 OF 6  
ILLINOIS DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS/DISTRICT 1  
201 WEST CENTER COURT  
SCHUMBERG, ILLINOIS 60196

SEE CONTINUATION ON SHEET 4

SEE CONTINUATION ON SHEET 3

SCANNED

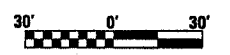


PART OF THE SE 1/4 OF SECTION 21, T46N, R8 EAST OF THE 3rd PM, MCHENRY COUNTY, ILLINOIS

BASIS OF BEARINGS IS THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE (NAD 83). 45

SEE CONTINUATION ON SHEETS 2 & 3

PARCEL NO.	OWNER	TOTAL HOLDING	R.O.W. REQUIRED	PREVIOUSLY DEDICATED	REMAINDER	EASEMENTS		EASEMENT PURPOSE	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
		ACRES	ACRES	ACRES	ACRES	TEMP. ACRES	PERM. ACRES			
1FB0010	CHICAGO TITLE & TRUST COMPANY TR. NO. 34025	19.305	0.508	0.436	18.797	N/A	N/A	N/A	04-21-400-020	



LEGEND

- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT LINE
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER QUARTER SECTION LINE
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- 121.45 MEASURED DIMENSION
- 123.45 (COMP) COMPUTED DIMENSION
- 123.45 (R) RECORDED DIMENSION
- FOUND IRON PIPE OR IRON ROD
- SET 1/2 INCH IRON ROD
- PERMANENT SURVEY MONUMENT
- ⊙ I.D.O.T. STD. 2135 (TO BE SET BY OTHERS)
- + CUT CROSS FOUND OR SET
- SAME OWNERSHIP
- TEL EXISTING TELEPHONE SPLICE BOX
- LGT EXISTING STREET LIGHT
- MAIL EXISTING MAIL BOX
- WELL EXISTING WELL HEAD
- STAKING OF PROPOSED RIGHT OF WAY, SET 1/2 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS, SET 1/2 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER 20 INCHES BELOW GROUND SURFACE TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.



STATE OF ILLINOIS )  
 COUNTY OF WILL ) SS

THIS IS TO CERTIFY THAT RUETTIGER, TONELLI & ASSOCIATES, INC., AN ILLINOIS DESIGN FIRM, HAS SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 21, TOWNSHIP 46 NORTH, RANGE 8 EAST OF THE THIRD PRINCIPAL MERIDIAN, MCHENRY COUNTY. THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT JOLIET, ILLINOIS THIS 30th DAY OF August 2006 A.D.

Ronald F. Hodgen  
 RONALD F. HODGEN P.L.S. NO. 2630  
 MY LICENSE EXPIRES 11-30-06

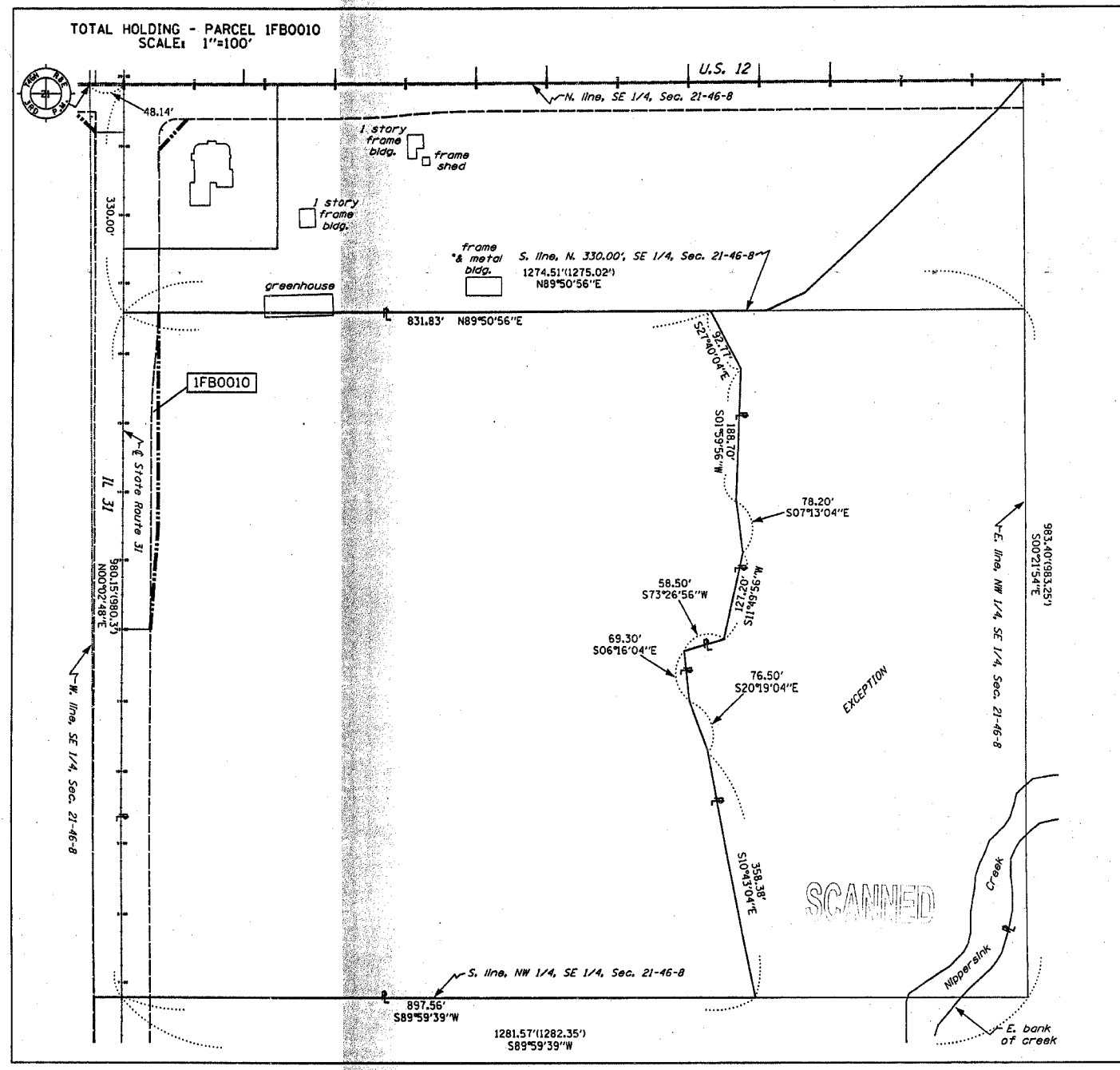
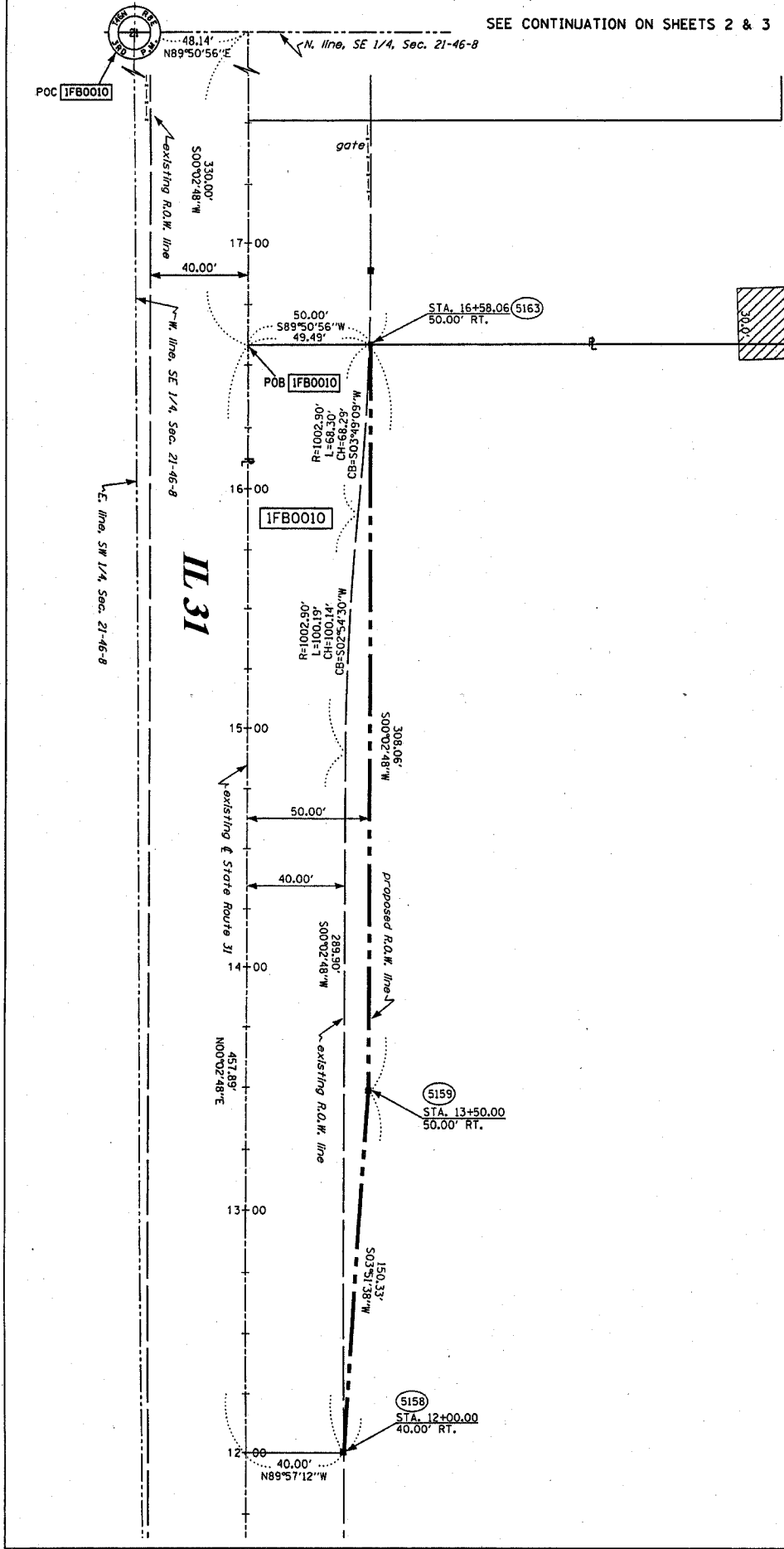
**RUETTIGER, TONELLI & ASSOCIATES, INC.**  
 Land Surveyors/Engineers/Planners/Landscape Architects/U.S. Consultants  
 2174 ONEIDA STREET, 2630 SOUTH WASHINGTON STREET SUITE 170  
 JOLIET, ILLINOIS 60435 MAPLEVIEW, ILLINOIS 60465  
 PH. (815) 744-5600 FAX (815) 744-0101 PH. (630) 420-7740 FAX (630) 420-7741

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 PLAT OF HIGHWAYS  
 FAP 334 (US 12/IL 31)  
 MCHENRY COUNTY  
 JOB NO. R-91-025-01  
 STATION 12+00 TO STATION 17+51

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS/DISTRICT 1  
 201 WEST CENTER COURT  
 SCHUMBERG, ILLINOIS 60196

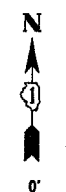
RECEIVED  
 AUG 03 2006  
 PLATS & LEGALS

SCANNED



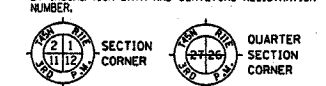
PART OF THE N. 1/2 OF SECTION 21, T46N, R8 EAST OF THE 3rd PM, MCHENRY COUNTY, ILLINOIS

BASIS OF BEARINGS IS THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE (NAD 83).



LEGEND

- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT LINE
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER QUARTER SECTION LINE
- PROPERTY (DEED) LINE
- APN
- APPARENT PROPERTY LINE
- 121.45 MEASURED DIMENSION
- 123.45 (COMP) COMPUTED DIMENSION
- (123.45) RECORDED DIMENSION
- FOUND IRON PIPE OR IRON ROD
- SET 1/2 INCH IRON ROD
- PERMANENT SURVEY MONUMENT
- ⊕ I.D.O.T. STD. 2135 (TO BE SET BY OTHERS)
- + CUT CROSS FOUND OR SET
- SAME OWNERSHIP
- TEL EXISTING TELEPHONE SPLICE BOX
- LGT EXISTING STREET LIGHT
- MAIL BOX EXISTING MAIL BOX
- WELL EXISTING WELL HEAD
- STAKING OF PROPOSED RIGHT OF WAY, SET 1/2 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS, SET 1/2 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER 20 INCHES BELOW GROUND SURFACE TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.



**CURVE NO. 1**  
 P.I. STA. = STA. 37+61.13  
 R = 26444.20'  
 T = 911.90'  
 L = 1823.08'  
 CH = 1822.72'  
 CB = N01°55'32"W  
 Δ = 03°57'00"  
 e = 15.72'  
 P.C. STA. = STA. 28+49.23  
 P.T. STA. = STA. 46+72.31

PARCEL NO.	OWNER	TOTAL HOLDING ACRES	R.O.W. REQUIRED ACRES	PREVIOUSLY DEDICATED ACRES	REMAINDER ACRES	EASEMENTS			PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
						TEMP ACRES	PERM ACRES	PURPOSE		
1FB0009	TAMARACK FARMS LLC	5.384	0.010	N/A	5.374	N/A	N/A	N/A	04-21-100-004	

RECEIVED  
 MAY 17 2006  
 PLATS & LEGALS

SCANNED

STATE OF ILLINOIS )  
 ) SS  
 COUNTY OF WILL )

**RUETTIGER, TONELLI & ASSOCIATES, INC.**  
*Land Surveyors/Engineers/Planners/Landscape Architects/G.I.S. Consultants*  
 2174 ONEIDA STREET  
 JOLIET, ILLINOIS 60435  
 PH. (815) 744-6600 FAX (815) 744-0101 PH. (630) 420-7740 FAX (630) 420-7741

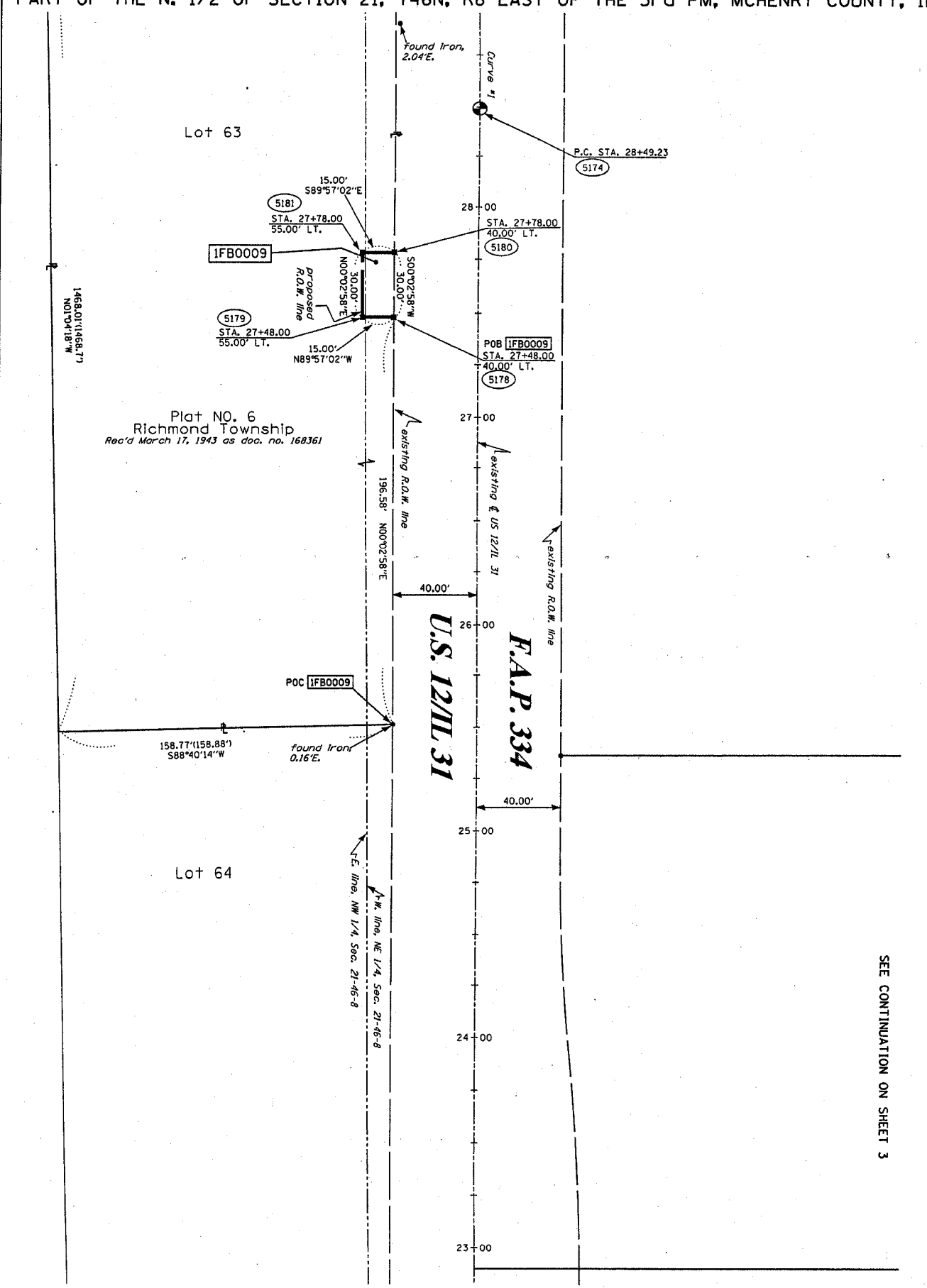
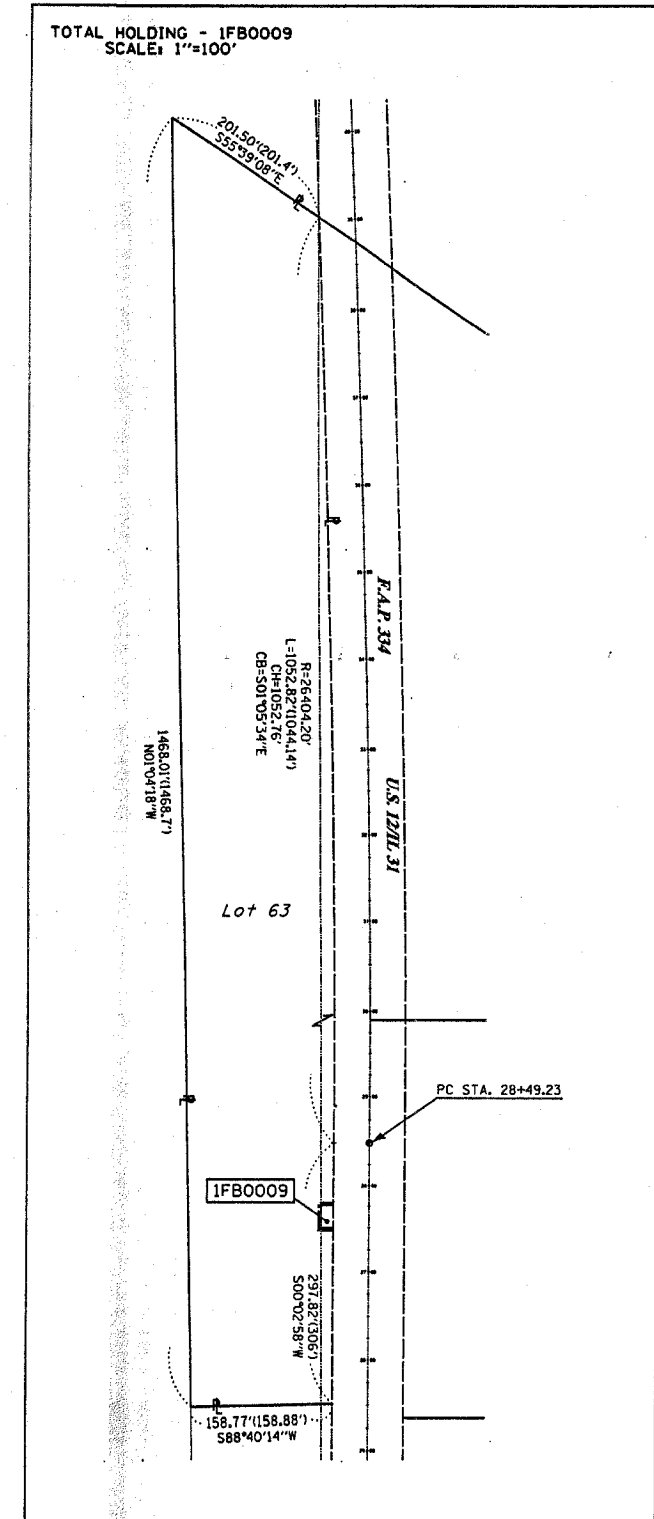
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DATED 17<sup>th</sup> DAY OF May 2006 A.D.  
  
 RONALD F. HODGEN P.L.S. NO. 2630  
 MY LICENSE EXPIRES 11-30-06



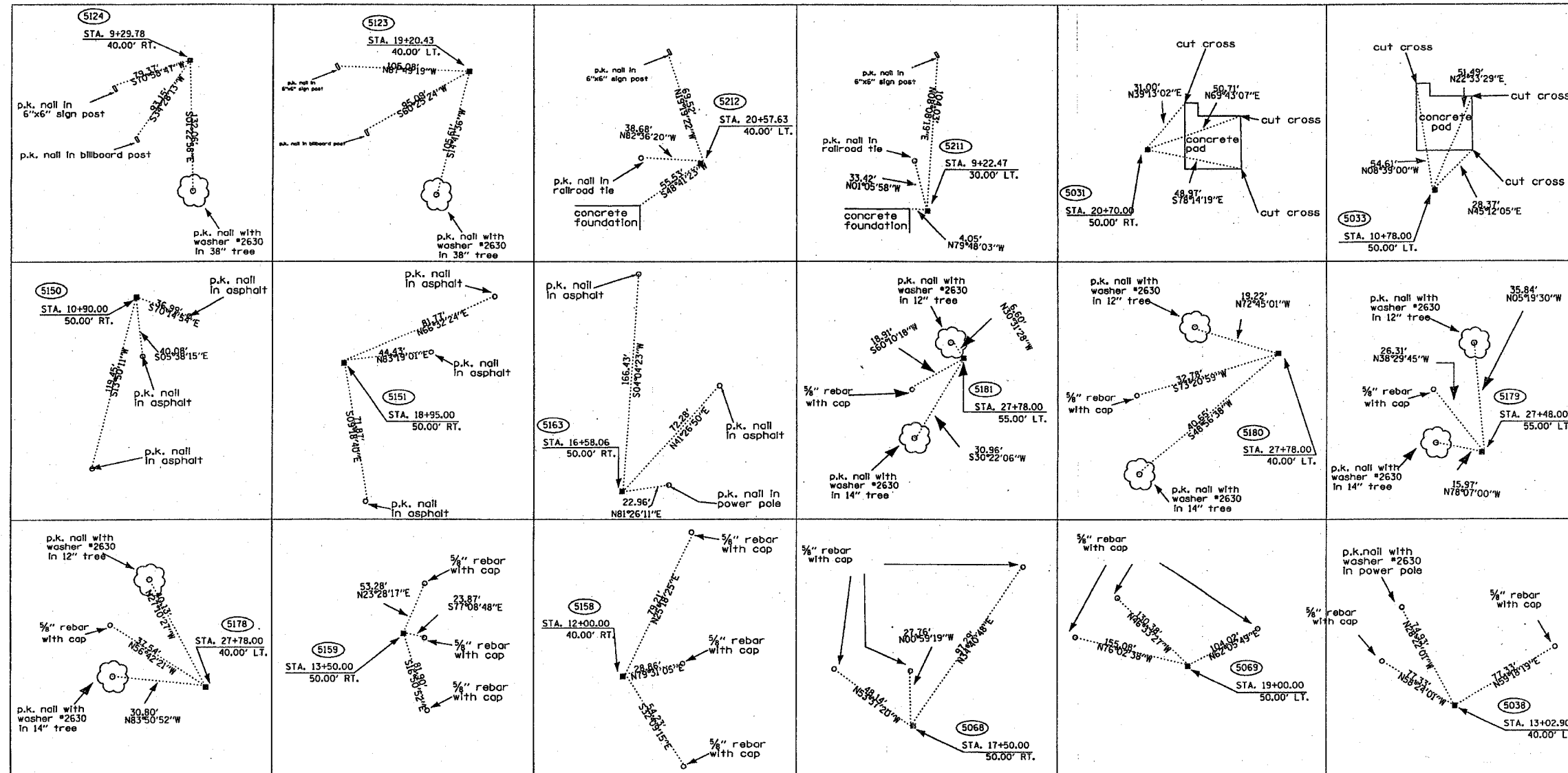
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PLAT OF HIGHWAYS**  
 FAP 334 (US 12/IL 31)  
 MCHENRY COUNTY  
 JOB NO. R-91-025-01  
 STATION 23+00 TO STATION 28+50  
 SHEET 5 OF 6

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS/DISTRICT 1  
 201 WEST CENTER COURT  
 SCHAMBURG, ILLINOIS 60196



SEE CONTINUATION ON SHEET 2

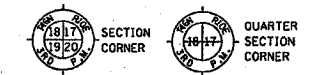
SEE CONTINUATION ON SHEET 3



BASIS OF BEARING IS THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD83.



- LEGEND**
- EXISTING CENTERLINE
  - PROPOSED CENTERLINE
  - EXISTING RIGHT OF WAY LINE
  - PROPOSED RIGHT OF WAY LINE
  - TEMPORARY EASEMENT LINE
  - SECTION LINE
  - QUARTER SECTION LINE
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  - 121.45 MEASURED DIMENSION
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  - (123.45) RECORDED DIMENSION
  - FOUND IRON PIPE OR IRON ROD
  - SET 3/4 INCH IRON ROD
  - PERMANENT SURVEY MONUMENT, I.D.O.T. STD. 2135 (TO BE SET BY OTHERS)
  - + CUT CROSS FOUND OR SET
  - SAME OWNERSHIP
  - TEL EXISTING TELEPHONE SPLICE BOX
  - LGT EXISTING STREET LIGHT
  - MAIL EXISTING MAIL BOX
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STATIONING FOR IL 31

POINT NO.	STATION	OFFSET	NORTH	EAST
5158	12+00.000	40.00 RT.	2106235.266	991774.748
5159	13+50.000	50.00 RT.	2106385.258	991784.870
5183	16+58.081	50.00 RT.	2106893.319	991785.120
5181	18+95.000	50.00 RT.	2106930.258	991785.313
5123	19+20.428	40.00 LT.	2106955.780	991895.333
5150	19+40.087	90.16 RT.	2106975.312	991825.508
5124	19+50.284	70.00 LT.	2106985.620	991865.358
5211	20+20.219	77.70 LT.	2107055.585	991857.717
5033	20+40.052	77.84 RT.	2107076.283	991813.271
5212	20+57.627	40.00 LT.	2107092.961	991895.448
5031	20+70.000	50.00 RT.	2107105.255	991785.459
5179	27+48.000	55.00 LT.	2107783.346	991881.043
5178	27+48.000	40.00 LT.	2107783.333	991898.043
5181	27+78.000	55.00 LT.	2107813.346	991881.069
5180	27+78.000	40.00 LT.	2107813.333	991898.069

STATIONING FOR U.S. 12

PT#	STATION	OFFSET	NORTH	EAST
5211	9+22.389	30.67 LT.	2107055.585	991857.717
5124	9+29.875	39.31 RT.	2106985.620	991865.358
5123	9+59.779	69.24 RT.	2106955.760	991695.333
5212	9+80.219	67.96 LT.	2107082.961	991895.448
5151	10+49.698	94.98 RT.	2106930.258	991785.313
5031	10+60.259	80.04 LT.	2107105.255	991785.459
5033	10+78.000	50.00 LT.	2107075.283	991813.271
5150	10+90.000	60.00 RT.	2106975.312	991825.508
5038	13+02.900	50.00 LT.	2107075.816	992038.170
5068	17+50.000	50.00 LT.	2107078.878	992485.269
5069	19+00.000	40.00 LT.	2107057.232	992635.292

STATE OF ILLINOIS )  
 ) SS  
 COUNTY OF MCHENRY )

THIS IS TO CERTIFY THAT RUETTIGER, TONELLI & ASSOCIATES, INC., AN ILLINOIS DESIGN FIRM, HAS SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 21, TOWNSHIP 46 NORTH, RANGE 8 EAST OF THE THIRD PRINCIPAL MERIDIAN, MCHENRY COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATE: 11/01/07, ILLINOIS THIS 11th DAY OF February 2007.

RONALD F. HODGEN P.L.S. NO. 2630  
 MY LICENSE EXPIRES 11-30-08



RECEIVED  
 FEB 15 2007  
 PLATS & LEGALS

RUETTIGER, TONELLI & ASSOCIATES, INC.  
 Land Surveyors/Engineers/Planners/Landscape Architects/P.L.S. Consultants  
 214 OREGON STREET SUITE 110  
 JOLIET, ILLINOIS 60435  
 PH. (815) 144-6600 FAX (815) 144-0001 PH. (630) 420-7740 FAX (630) 420-7741

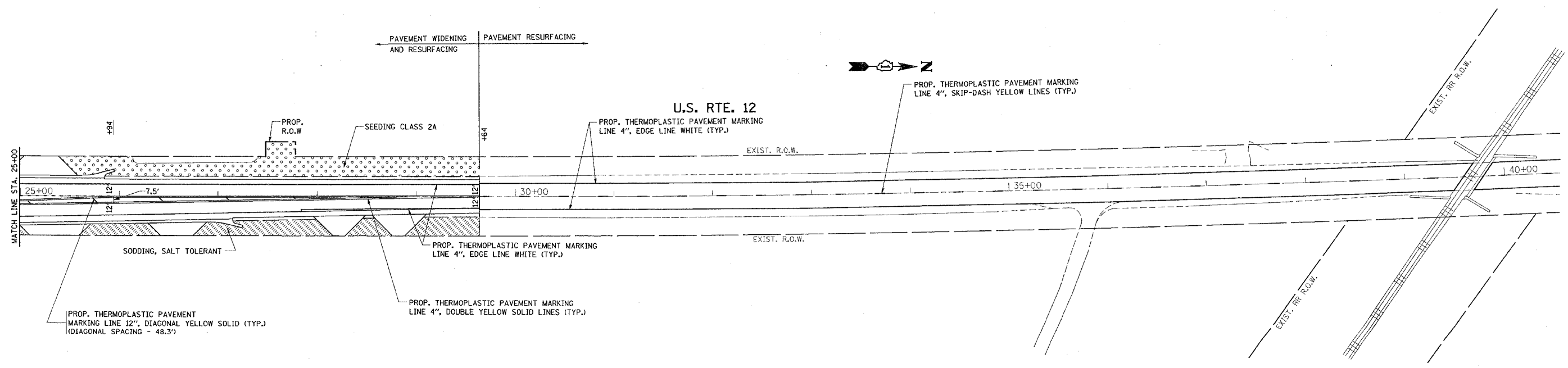
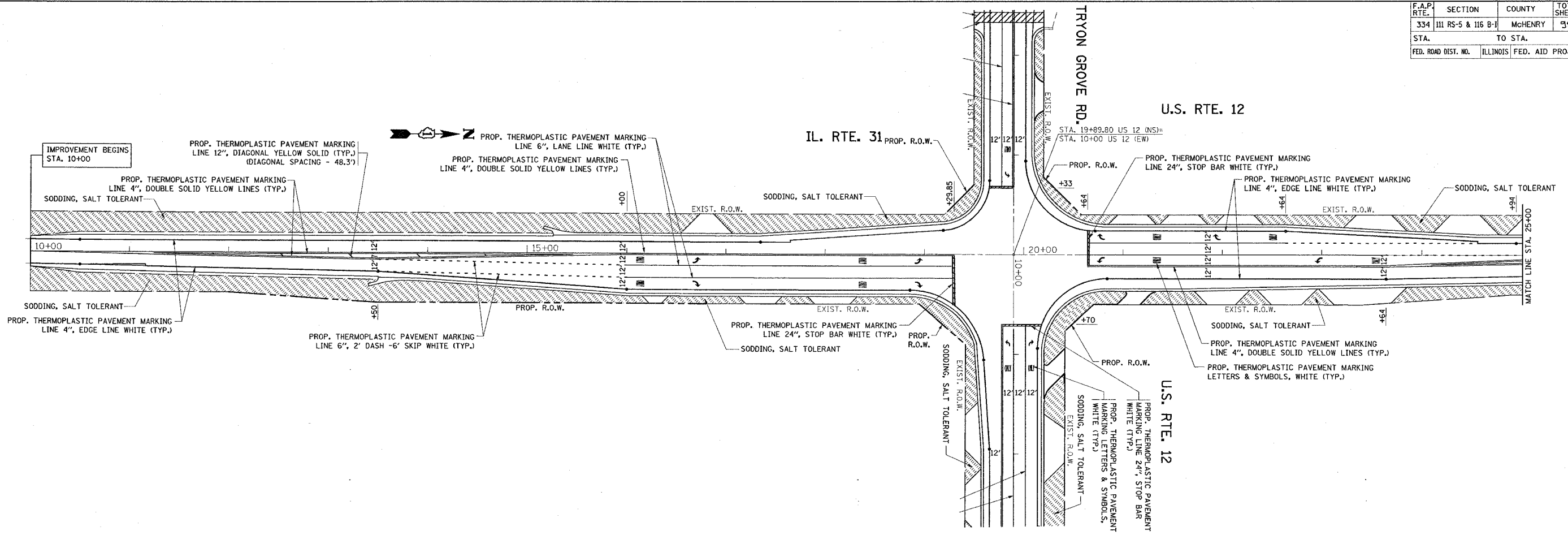
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 PLAT OF HIGHWAYS  
 FAP 334 (US 12/IL 31)  
 MCHENRY COUNTY  
 JOB NO. R-91-025-01

SCANNED

\*REF-pmk01  
\*REF-pmk02

CONTRACT NO. 60A91

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	III RS-5 & 116 B-I	McHENRY	98	48
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



**NOTE:**  
RAISED REFLECTIVE PAVEMENT MARKERS ARE TO BE PLACED THROUGHOUT THE PROJECT LIMITS ACCORDING TO DISTRICT DETAIL TC-11.  
FURNISH AND PLACE TOPSOIL, 4" WILL BE PLACED WHERE SEEDING AND SODDING ARE SHOWN

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PROPOSED PAVEMENT MARKING AND LANDSCAPING PLAN**  
U.S. RTE. 12 @  
IL. RTE. 31 (TRYON GROVE RD.)  
SCALE: VERT. 1"=50'  
HORIZ. DATE 5/10/2007  
DRAWN BY  
CHECKED BY

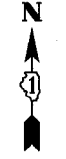
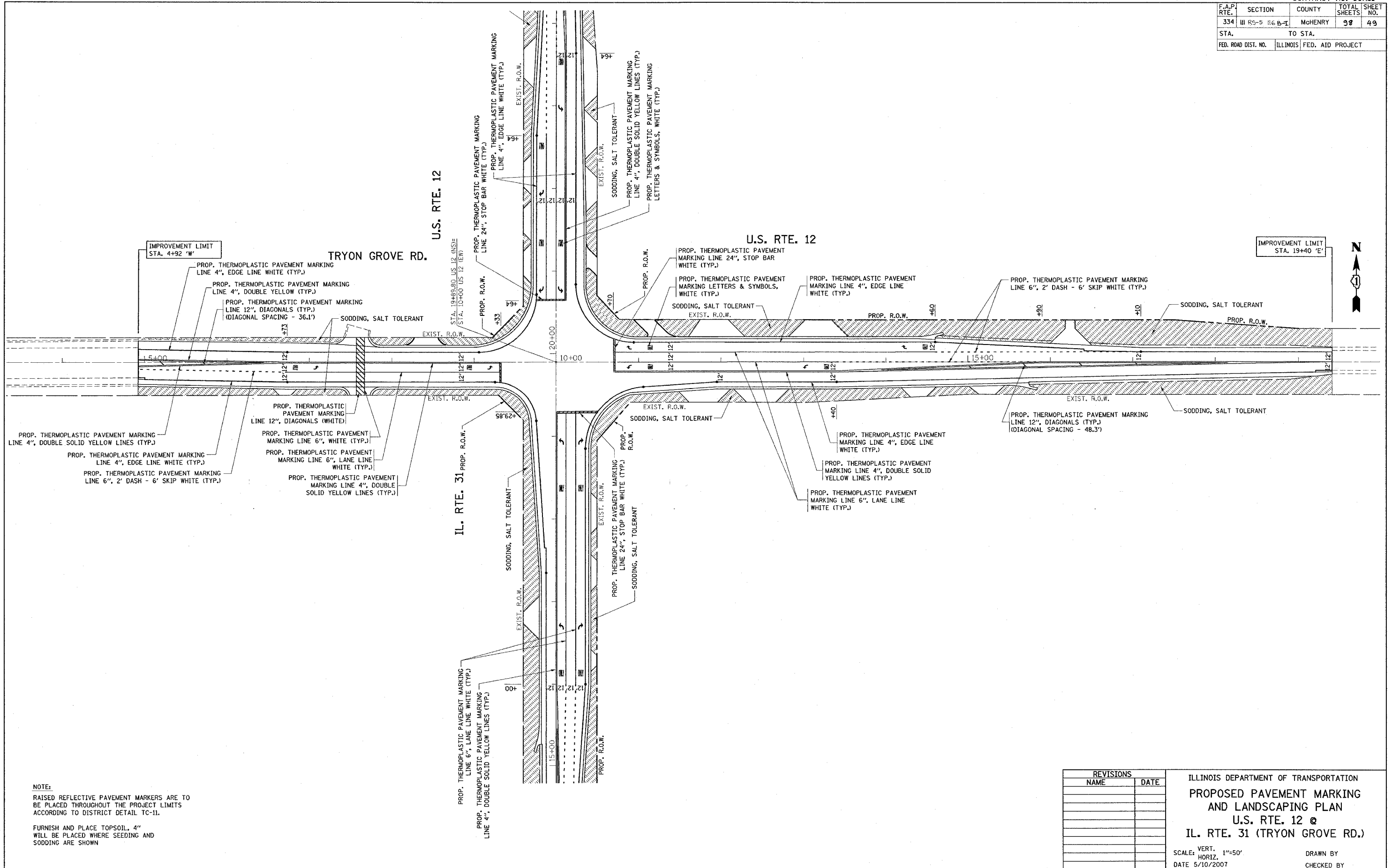
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PLOT SCALE = 80.00000' / 1" IN.  
USER NAME = bawardl



\*REF-pmk03

CONTRACT NO. 60A91

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	1116 B-1	MOHENRY	98	49
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



PLOT DATE = 5/10/2007  
 FILE NAME = c:\projects\60a91\60a91.dgn  
 PLOT SCALE = 1/8" = 1'-0"  
 USER NAME = baum-dl

**NOTE:**  
 RAISED REFLECTIVE PAVEMENT MARKERS ARE TO BE PLACED THROUGHOUT THE PROJECT LIMITS ACCORDING TO DISTRICT DETAIL TC-11.  
 FURNISH AND PLACE TOPSOIL, 4" WILL BE PLACED WHERE SEEDING AND SODDING ARE SHOWN

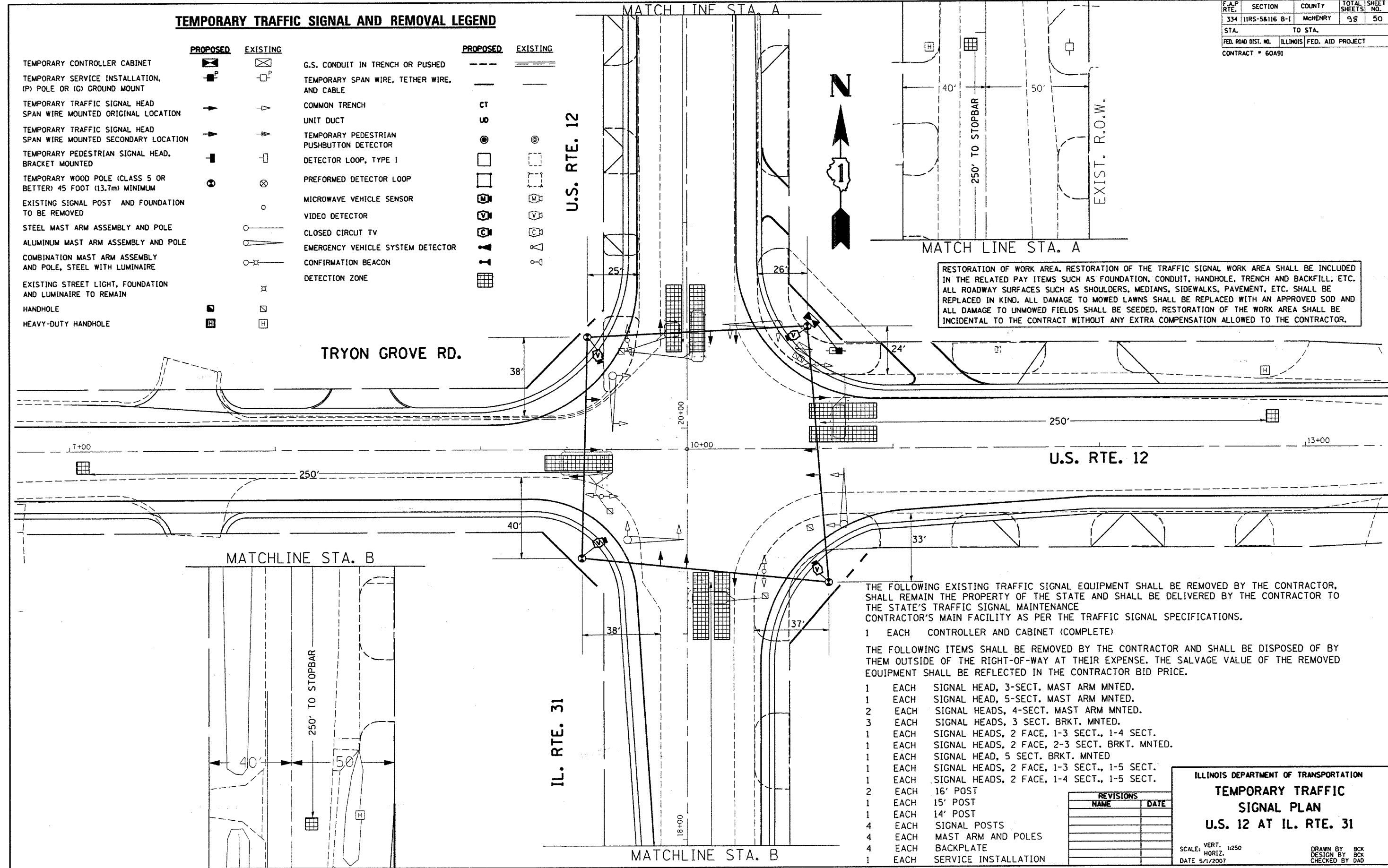
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PROPOSED PAVEMENT MARKING AND LANDSCAPING PLAN**  
**U.S. RTE. 12 @**  
**IL. RTE. 31 (TRYON GROVE RD.)**  
 SCALE: VERT. 1"=50'  
 HORIZ. 1"=50'  
 DATE 5/10/2007  
 DRAWN BY  
 CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	11RS-5&116 B-1	McHENRY	98	50
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT # 60A91				

**TEMPORARY TRAFFIC SIGNAL AND REMOVAL LEGEND**

<b>PROPOSED</b>	<b>EXISTING</b>	<b>PROPOSED</b>	<b>EXISTING</b>
TEMPORARY CONTROLLER CABINET		G.S. CONDUIT IN TRENCH OR PUSHED	
TEMPORARY SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT		TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE	
TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED ORIGINAL LOCATION		COMMON TRENCH	
TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED SECONDARY LOCATION		UNIT DUCT	
TEMPORARY PEDESTRIAN SIGNAL HEAD, BRACKET MOUNTED		TEMPORARY PEDESTRIAN PUSHBUTTON DETECTOR	
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM		DETECTOR LOOP, TYPE I	
EXISTING SIGNAL POST AND FOUNDATION TO BE REMOVED		PREFORMED DETECTOR LOOP	
STEEL MAST ARM ASSEMBLY AND POLE		MICROWAVE VEHICLE SENSOR	
ALUMINUM MAST ARM ASSEMBLY AND POLE		VIDEO DETECTOR	
COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE		CLOSED CIRCUIT TV	
EXISTING STREET LIGHT, FOUNDATION AND LUMINAIRE TO REMAIN		EMERGENCY VEHICLE SYSTEM DETECTOR	
HANDHOLE		CONFIRMATION BEACON	
HEAVY-DUTY HANDHOLE		DETECTION ZONE	



THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE STATE AND SHALL BE DELIVERED BY THE CONTRACTOR TO THE STATE'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR'S MAIN FACILITY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE OF THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACTOR BID PRICE.
- 1 EACH SIGNAL HEAD, 3-SECT. MAST ARM MNTD.
- 1 EACH SIGNAL HEAD, 5-SECT. MAST ARM MNTD.
- 2 EACH SIGNAL HEADS, 4-SECT. MAST ARM MNTD.
- 3 EACH SIGNAL HEADS, 3 SECT. BRKT. MNTD.
- 1 EACH SIGNAL HEADS, 2 FACE, 1-3 SECT., 1-4 SECT.
- 1 EACH SIGNAL HEADS, 2 FACE, 2-3 SECT. BRKT. MNTD.
- 1 EACH SIGNAL HEAD, 5 SECT. BRKT. MNTD
- 1 EACH SIGNAL HEADS, 2 FACE, 1-3 SECT., 1-5 SECT.
- 1 EACH SIGNAL HEADS, 2 FACE, 1-4 SECT., 1-5 SECT.
- 2 EACH 16' POST
- 1 EACH 15' POST
- 1 EACH 14' POST
- 4 EACH SIGNAL POSTS
- 4 EACH MAST ARM AND POLES
- 4 EACH BACKPLATE
- 1 EACH SERVICE INSTALLATION

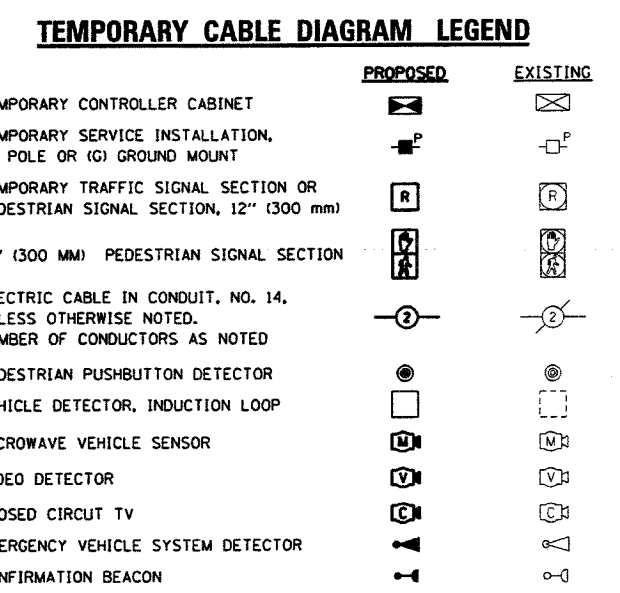
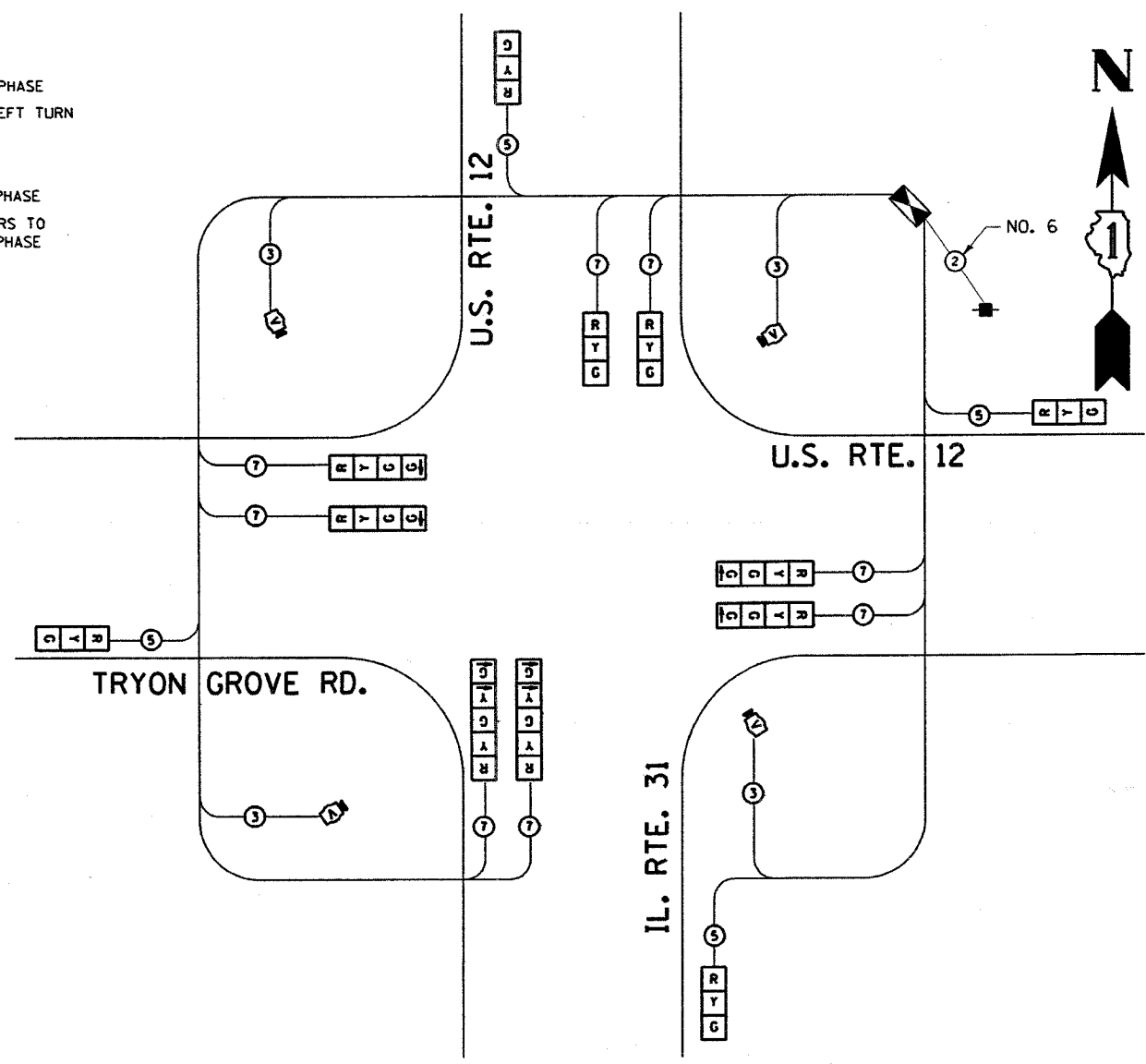
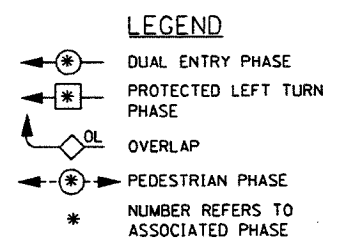
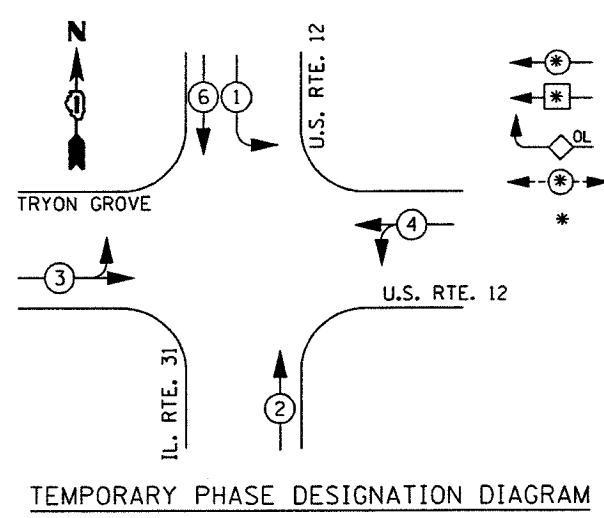
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TEMPORARY TRAFFIC SIGNAL PLAN**  
**U.S. 12 AT IL. RTE. 31**

SCALE: VERT. 1:250  
 HORIZ. 1:250  
 DATE 5/1/2007

DRAWN BY BCK  
 DESIGN BY BCK  
 CHECKED BY DAD

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	11RS-5&116 B-1	McHENRY	99	51
STA.		TO STA.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
CONTRACT = 60A91				



**TEMPORARY CABLE PLAN**

**TEMPORARY SCHEDULE OF QUANTITIES**

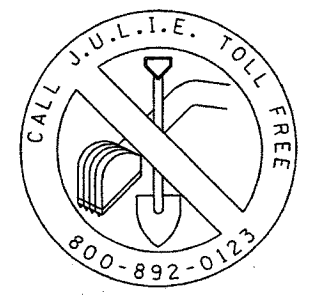
ITEM	UNIT	QUANTITY
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING HANDHOLE	EACH	8
REMOVE EXISTING CONCRETE FOUNDATION	EACH	8

**TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. LAMPS	WATTAGE (INCAND.)	LED	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	135	17	0.50	810.00
(YELLOW)	14	135	25	0.25	472.50
(GREEN)	14	135	15	0.25	472.50
ARROW	8	135	12	0.10	108.00
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	100	1.00	100.00
ILLUM. SIGN		84		0.05	
FLASHER				0.50	
<b>TOTAL =</b>					<b>1963.00</b>

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION  
201 WEST CENTER COURT  
SCHALMURG, ILLINOIS 60196-1096  
ENERGY SUPPLY CONTACT: KEVIN LUBAWSKI  
PHONE: 630-437-2495  
COMPANY: COMM. ED.

FOUNDATION DEPTH	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'-L-2'-
E - M. ARM POLE		SIGNAL POST	2 (1.0)	16m+L-0.6m=	
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
36" (900mm)	15 (4.6)	ELECTRIC SERVICE	1 (0.5)	ELECTRIC SERVICE	13.5 (4.1)
		GROUND CABLE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
				POST MOUNTED	6 (1.8)



REVISIONS	NAME	DATE

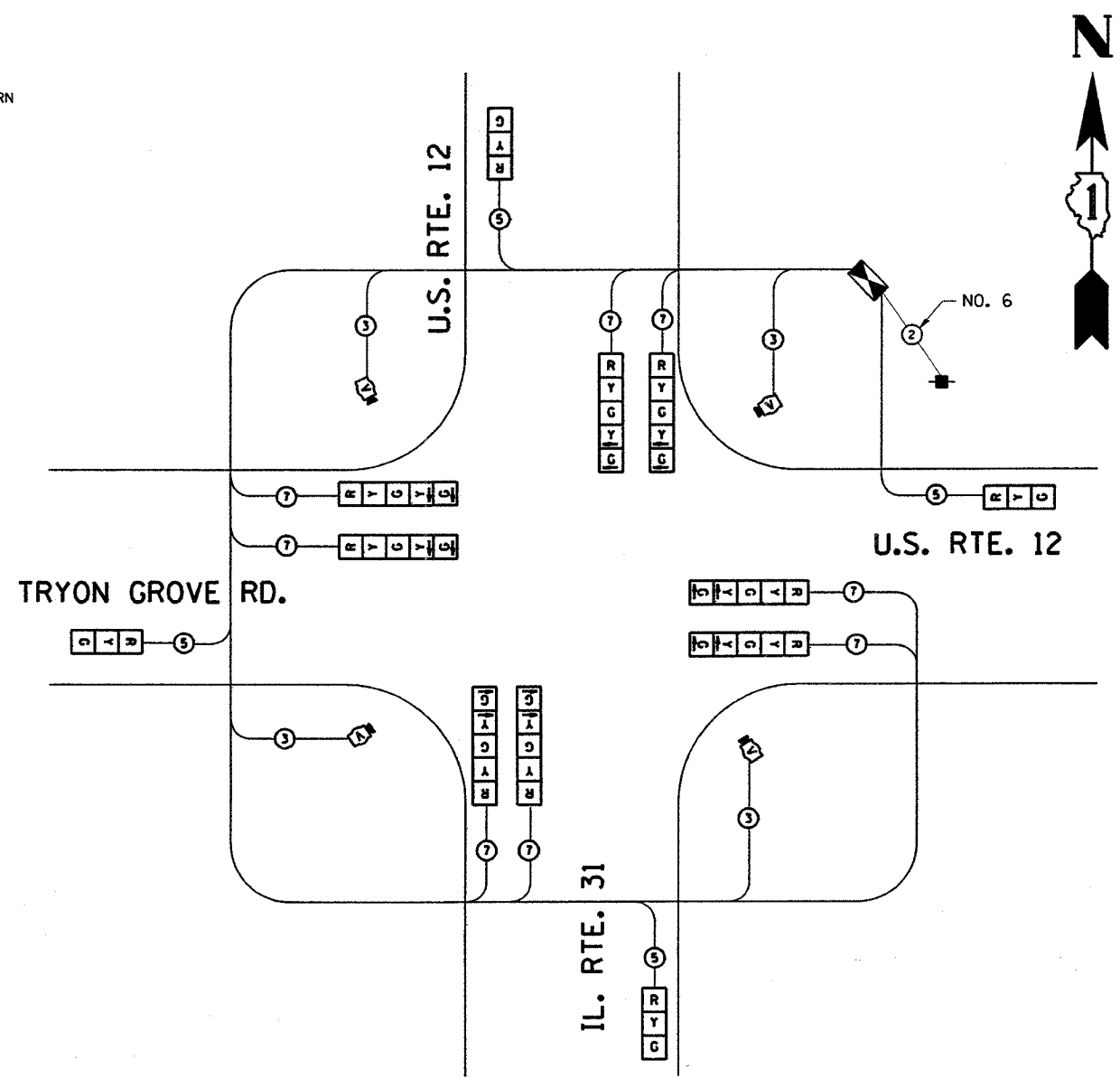
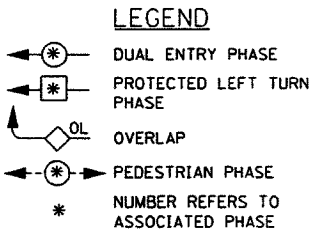
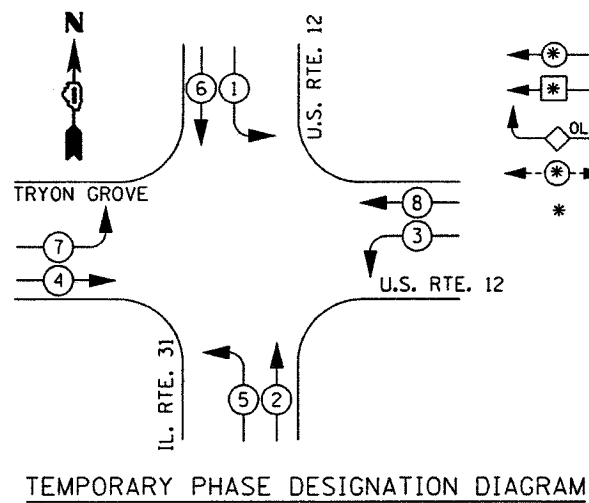
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TEMPORARY CABLE PLAN AND PHASE DESIGNATION DIAGRAM**  
U.S. 12 AT IL. RTE. 31  
STAGE 1

SCALE: NTS  
DATE: 5/1/2007

DRAWN BY: BCK  
DESIGN BY: BCK  
CHECKED BY: DAD

5/1/2007  
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kamt\hphkaybc

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	11RS-5&116 B-1	MCHEMRY	58	52
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
CONTRACT = 60A91				



**TEMPORARY CABLE DIAGRAM LEGEND**

	PROPOSED	EXISTING
TEMPORARY CONTROLLER CABINET		
TEMPORARY SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT		
TEMPORARY TRAFFIC SIGNAL SECTION OR PEDESTRIAN SIGNAL SECTION, 12" (300 mm)		
12" (300 MM) PEDESTRIAN SIGNAL SECTION		
ELECTRIC CABLE IN CONDUIT, NO. 14, UNLESS OTHERWISE NOTED. NUMBER OF CONDUCTORS AS NOTED		
PEDESTRIAN PUSHBUTTON DETECTOR		
VEHICLE DETECTOR, INDUCTION LOOP		
MICROWAVE VEHICLE SENSOR		
VIDEO DETECTOR		
CLOSED CIRCUIT TV		
EMERGENCY VEHICLE SYSTEM DETECTOR		
CONFIRMATION BEACON		

**TEMPORARY CABLE PLAN**

**TEMPORARY SCHEDULE OF QUANTITIES**

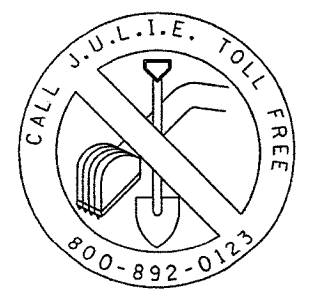
ITEM	UNIT	QUANTITY
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1

**I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. LAMPS	WATTAGE (INCAND.)	WATTAGE LED	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	135	17	0.50	810.00
(YELLOW)	20	135	25	0.25	675.00
(GREEN)	20	135	15	0.25	675.00
ARROW	16	135	12	0.10	216.00
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	100	1.00	100.00
ILLUM. SIGN		84		0.05	
FLASHER				0.50	
<b>TOTAL =</b>					<b>2476.00</b>

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION  
201 WEST CENTER COURT  
SCHAMBURG, ILLINOIS 60196-1096  
CONTACT: KEVIN LUBAWSKI  
PHONE: 630-437-2495  
COMPANY: COMM. ED.

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'-H.-2"= (6m+L-0.6m)=
E - M. ARM POLE		SIGNAL POST	2 (1.0)	BRACKET MOUNTED	13 (4.0)
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	PED. PUSHBUTTON	4 (1.2)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	ELECTRIC SERVICE	13.5 (4.1)
36" (900mm)	15 (4.6)	ELECTRIC SERVICE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
		GROUND CABLE	1 (0.5)	POST MOUNTED	6 (1.8)



**REVISIONS**

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TEMPORARY CABLE PLAN AND PHASE DESIGNATION DIAGRAM**  
U.S. 12 AT IL. RTE. 31  
**STAGE 2**

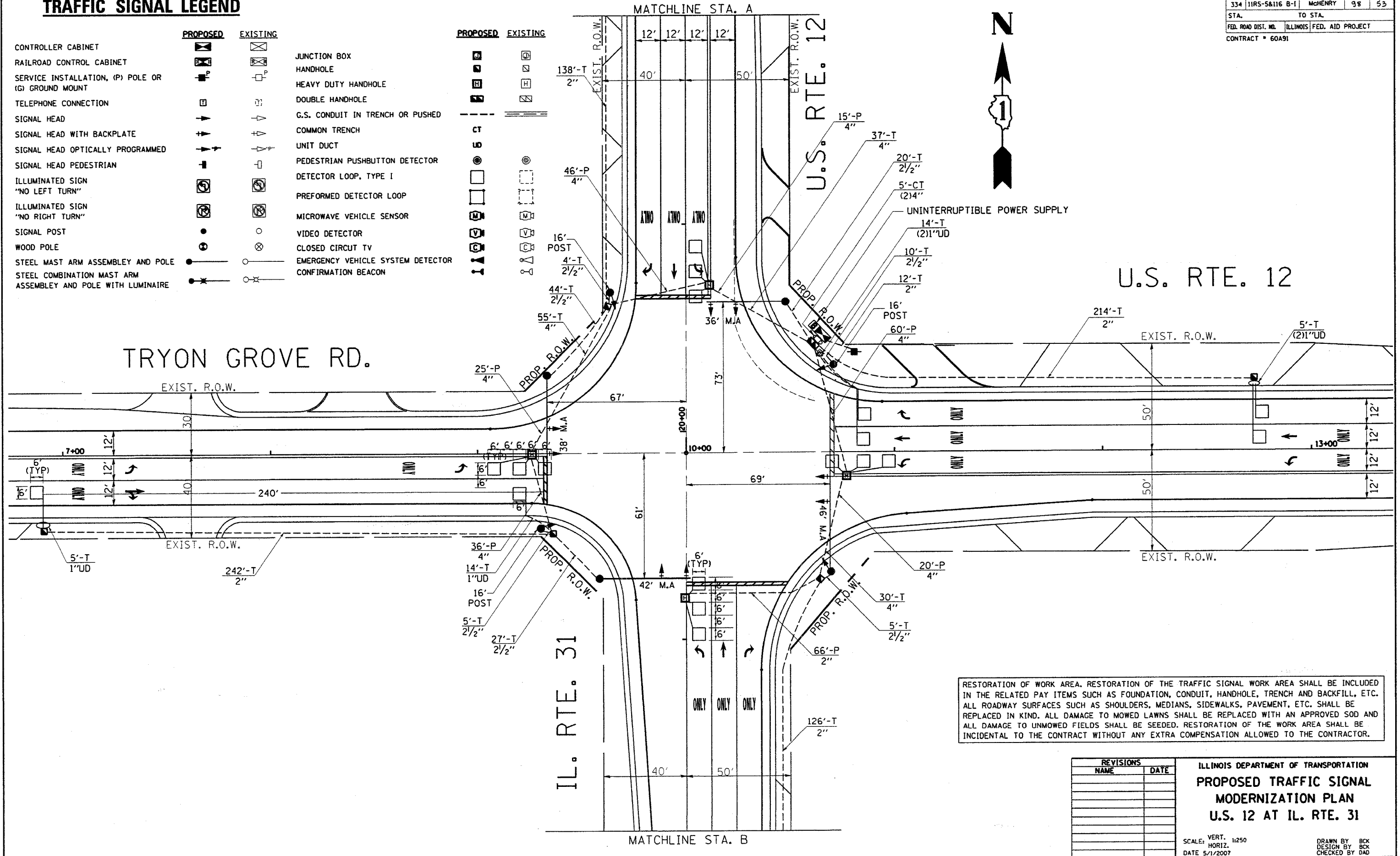
SCALE: NTS  
DATE: 5/1/2007

DRAWN BY: BCK  
DESIGN BY: BCK  
CHECKED BY: DAD

# TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING		PROPOSED	EXISTING
CONTROLLER CABINET			JUNCTION BOX		
RAILROAD CONTROL CABINET			HANDHOLE		
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT			HEAVY DUTY HANDHOLE		
TELEPHONE CONNECTION			DOUBLE HANDHOLE		
SIGNAL HEAD			G.S. CONDUIT IN TRENCH OR PUSHED		
SIGNAL HEAD WITH BACKPLATE			COMMON TRENCH		
SIGNAL HEAD OPTICALLY PROGRAMMED			UNIT DUCT		
SIGNAL HEAD PEDESTRIAN			PEDESTRIAN PUSHBUTTON DETECTOR		
ILLUMINATED SIGN "NO LEFT TURN"			DETECTOR LOOP, TYPE I		
ILLUMINATED SIGN "NO RIGHT TURN"			PREFORMED DETECTOR LOOP		
SIGNAL POST			MICROWAVE VEHICLE SENSOR		
WOOD POLE			VIDEO DETECTOR		
STEEL MAST ARM ASSEMBLY AND POLE			CLOSED CIRCUIT TV		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE			EMERGENCY VEHICLE SYSTEM DETECTOR		
			CONFIRMATION BEACON		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	11RS-5&116 B-1	McHENRY	98	53
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT # 60A91				



RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEMS SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED. RESTORATION OF THE WORK AREA SHALL BE INCIDENTAL TO THE CONTRACT WITHOUT ANY EXTRA COMPENSATION ALLOWED TO THE CONTRACTOR.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PROPOSED TRAFFIC SIGNAL  
 MODERNIZATION PLAN**  
**U.S. 12 AT IL. RTE. 31**

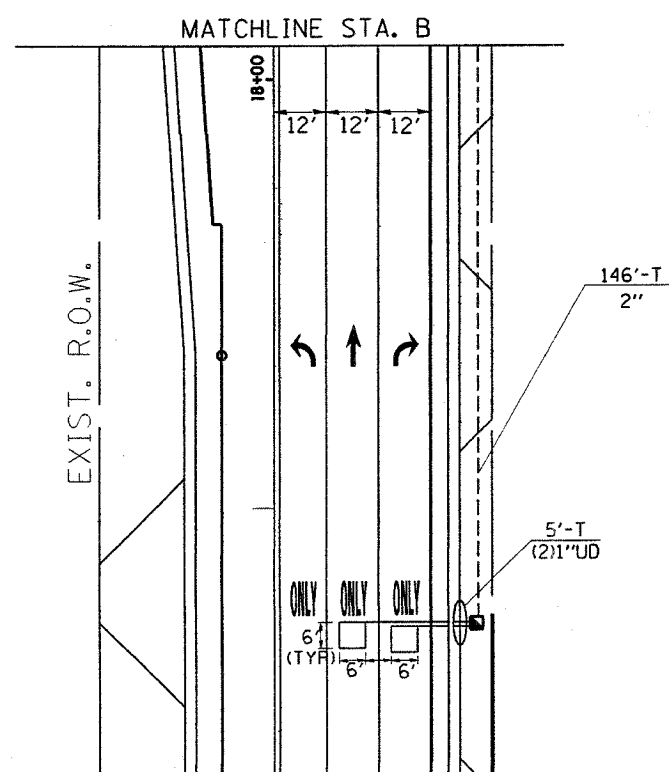
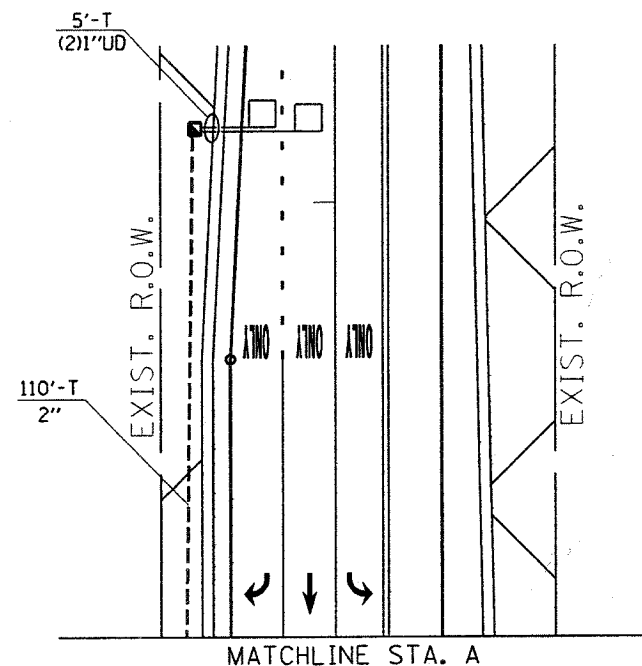
SCALE: VERT. 1:250  
 HORIZ. 1:250  
 DATE 5/1/2007  
 DRAWN BY BCK  
 DESIGN BY BCK  
 CHECKED BY DAD

# TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING		PROPOSED	EXISTING
CONTROLLER CABINET			JUNCTION BOX		
RAILROAD CONTROL CABINET			HANDHOLE		
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT			HEAVY DUTY HANDHOLE		
TELEPHONE CONNECTION			DOUBLE HANDHOLE		
SIGNAL HEAD			G.S. CONDUIT IN TRENCH OR PUSHED		
SIGNAL HEAD WITH BACKPLATE			COMMON TRENCH	CT	
SIGNAL HEAD OPTICALLY PROGRAMMED			UNIT DUCT	U	
SIGNAL HEAD PEDESTRIAN			PEDESTRIAN PUSHBUTTON DETECTOR		
ILLUMINATED SIGN "NO LEFT TURN"			DETECTOR LOOP, TYPE I		
ILLUMINATED SIGN "NO RIGHT TURN"			PREFORMED DETECTOR LOOP		
SIGNAL POST			MICROWAVE VEHICLE SENSOR		
WOOD POLE			VIDEO DETECTOR		
STEEL MAST ARM ASSEMBLY AND POLE			CLOSED CIRCUIT TV		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE			EMERGENCY VEHICLE SYSTEM DETECTOR		
			CONFIRMATION BEACON		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	11RS-5&116 B-1	MCHENRY	98	54
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT # 60A91



RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEMS SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED. RESTORATION OF THE WORK AREA SHALL BE INCIDENTAL TO THE CONTRACT WITHOUT ANY EXTRA COMPENSATION ALLOWED TO THE CONTRACTOR.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

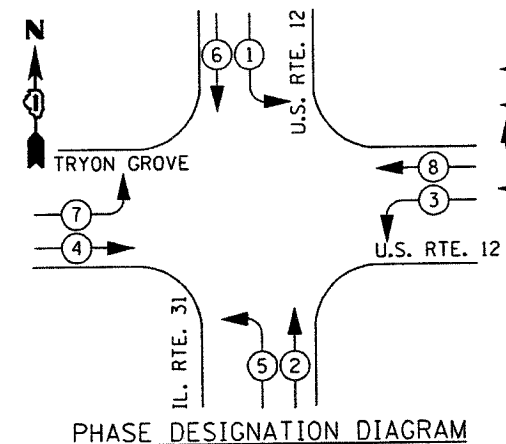
**PROPOSED TRAFFIC SIGNAL MODERNIZATION PLAN**

**U.S.12 AT IL. RTE. 31**

SCALE: VERT. 1:250  
 HORIZ. DATE 5/1/2007

DRAWN BY BCK  
 DESIGN BY BCK  
 CHECKED BY DAD

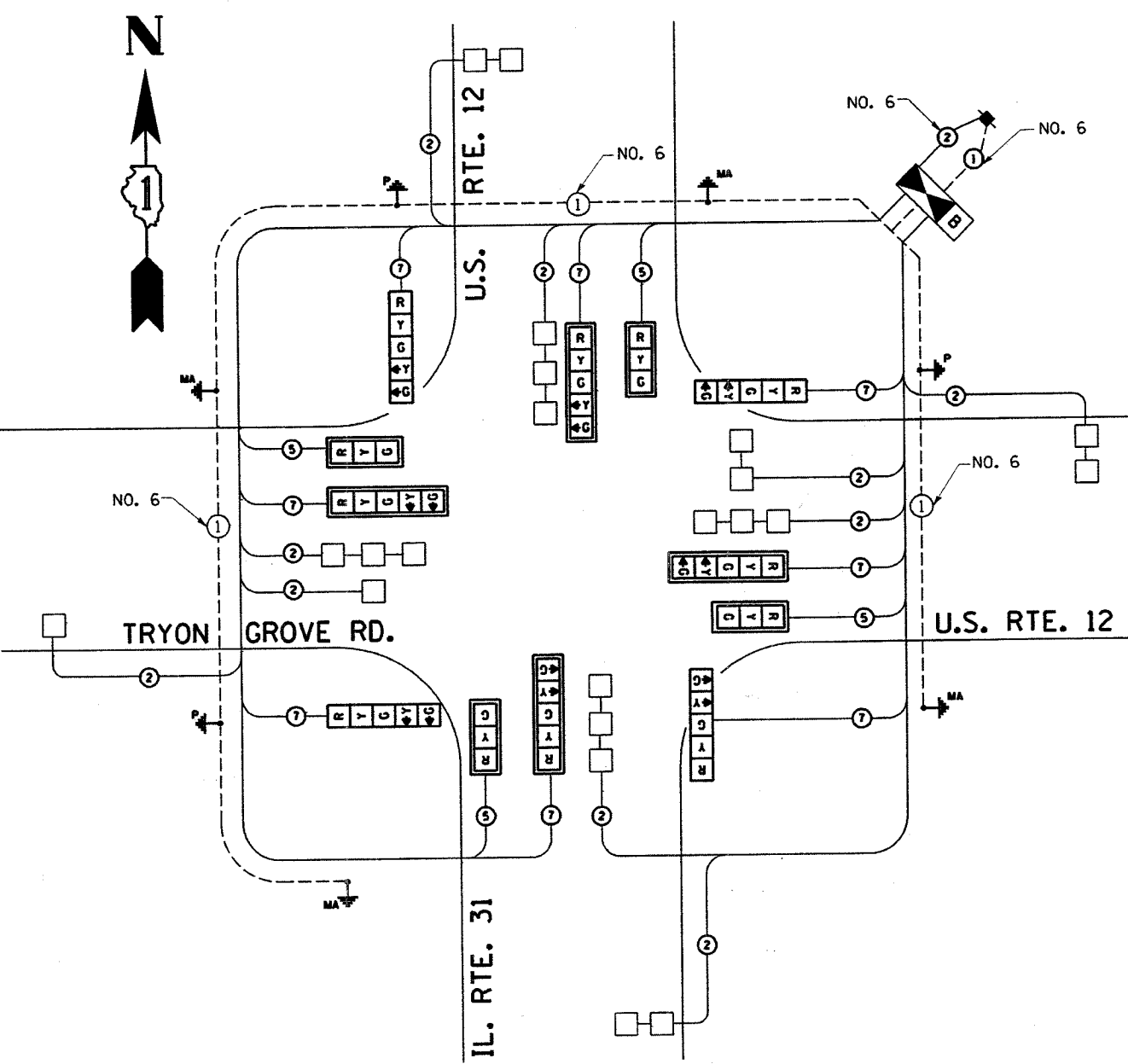
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	11RS-5&116 B-1	MCHEMRY	98	55
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
CONTRACT # 60A91				



- LEGEND**
- ←\*← DUAL ENTRY PHASE
  - ←\*← PROTECTED LEFT TURN PHASE
  - OL OVERLAP
  - ←\*← PEDESTRIAN PHASE
  - \* NUMBER REFERS TO ASSOCIATED PHASE

**SCHEDULE OF QUANTITIES**

ITEM	UNIT	QUANTITY
SIGNAL PANEL - TYPE 1	FOOT	30
SIGNAL PANEL - TYPE 2	FOOT	15
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	990
CONDUIT IN PUSH, 2" DIA., GALVANIZED STEEL	FOOT	66
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	120
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	166
CONDUIT IN PUSH, 4" DIA., GALVANIZED STEEL	FOOT	152
HANDHOLE	EACH	7
HEAVY-DUTY HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	1
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	1281
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	850
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1545
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2000
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	12
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	580
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3
STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	30
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	30
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	8
INDUCTIVE LOOP DETECTOR	EACH	10
DETECTOR LOOP, TYPE I	FOOT	528
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
SIGNAL HEAD, L.E.D., 1-FACE, 5-SECT., BRKTED. MNTD.	EACH	4
SIGNAL HEAD, L.E.D., 1-FACE, 5-SECT., MAST ARM MNTD.	EACH	4
SIGNAL HEAD, L.E.D., 1-FACE, 3-SECT., MAST ARM MNTD.	EACH	4
SERVICE INSTALLATION, POLE MNTD.	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
UNINTERRUPTIBLE POWER SUPPLY	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1



**CABLE PLAN LEGEND**

	PROPOSED	EXISTING
CONTROLLER CABINET	[Symbol]	[Symbol]
RAILROAD CONTROL CABINET	[Symbol]	[Symbol]
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT	[Symbol]	[Symbol]
TELEPHONE CONNECTION	[Symbol]	[Symbol]
GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE	[Symbol]	[Symbol]
FIBER OPTIC CABLE IN CONDUIT, NUMBER OF FIBERS AS NOTED	[Symbol]	[Symbol]
ELECTRIC CABLE IN CONDUIT, NO. 14, UNLESS OTHERWISE NOTED, NUMBER OF CONDUCTORS AS NOTED	[Symbol]	[Symbol]
GROUND CABLE IN CONDUIT NO. 6 COPPER (GREEN)	[Symbol]	[Symbol]
SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD	[Symbol]	[Symbol]
12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE	[Symbol]	[Symbol]
12" (300mm) TRAFFIC SIGNAL SECTION	[Symbol]	[Symbol]
12" (300mm) PEDESTRIAN SIGNAL SECTION	[Symbol]	[Symbol]
ILLUMINATED SIGN "NO LEFT TURN"	[Symbol]	[Symbol]
ILLUMINATED SIGN "NO RIGHT TURN"	[Symbol]	[Symbol]
PUSHBUTTON DETECTOR	[Symbol]	[Symbol]
DETECTOR LOOP	[Symbol]	[Symbol]
PERFORMED DETECTOR LOOP	[Symbol]	[Symbol]
MICROWAVE VEHICLE SENSOR	[Symbol]	[Symbol]
VIDEO DETECTOR	[Symbol]	[Symbol]
CLOSED CIRCUIT TV	[Symbol]	[Symbol]
EMERGENCY VEHICLE SYSTEM DETECTOR	[Symbol]	[Symbol]
CONFIRMATION BEACON	[Symbol]	[Symbol]

**I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. LAMPS	WATTAGE (INCANDESCENT)	WATTAGE (LED)	OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	135	17	0.50	102.00
(YELLOW)	24	135	25	0.25	150.00
(GREEN)	24	135	15	0.25	90.00
ARROW	24	135	12	0.10	28.80
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	100	1.00	100.00
ILLUM. SIGN		84		0.05	
FLASHER				0.50	
<b>TOTAL #</b>					<b>470.80</b>

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION  
201 WEST CENTER COURT  
SCHUMBERG, ILLINOIS 60196-1096  
CONTACT: KEVIN LUBAWSKI  
PHONE: 630-437-2495  
COMPANY: COMM. ED.

FOUNDATION DEPTH	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'+L-2'
E - M. ARM POLE		SIGNAL POST	2 (1.0)	(6m+L-0.6m)±	
		CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
		FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
		ELECTRIC SERVICE	1 (0.5)	ELECTRIC SERVICE	13.5 (4.1)
		GROUND CABLE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
				POST MOUNTED	6 (1.8)

**REVISIONS**

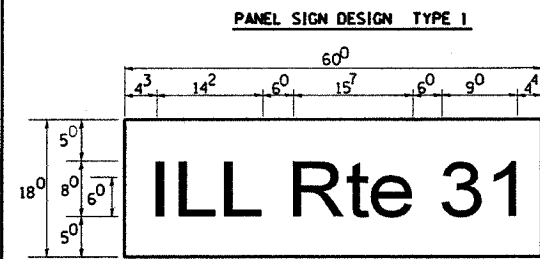
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**SCHEDULE OF QUANTITIES, CABLE PLAN AND PHASE DESIGNATION DIAGRAM**  
US 12 @ IL. RTE 31  
SCALE: NTS  
DATE 5/1/2007  
DRAWN BY: BCK  
DESIGN BY: BCK  
CHECKED BY: DAD

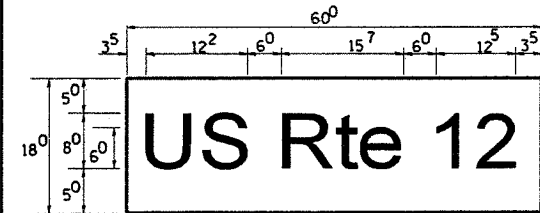
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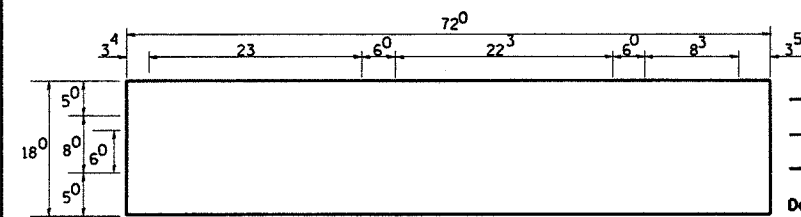
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	11RS-58116 B-1	McHENRY	98	56
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
CONTRACT # 60A91				



— Sq. Ft. each  
7.5 Sq. Ft. each  
— 2 Required  
Design Series D.

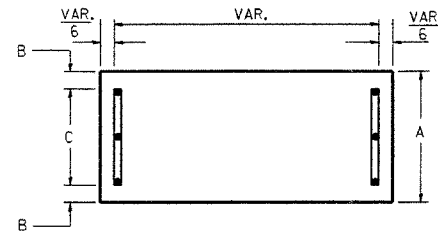


— Sq. Ft. each  
7.5 Sq. Ft. each  
— 2 Required  
Design Series D.

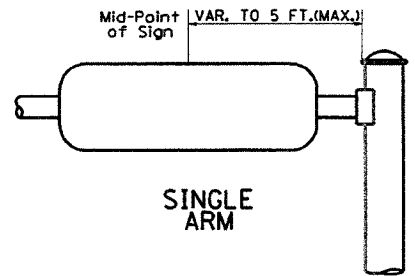


— Sq. Ft. each  
— Sq. Ft. each  
— Required  
Design Series C.

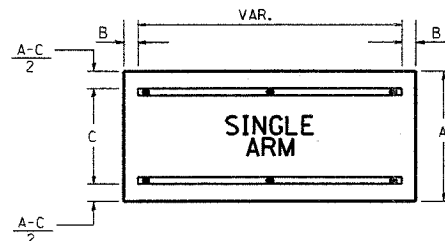
### SUPPORTING CHANNELS



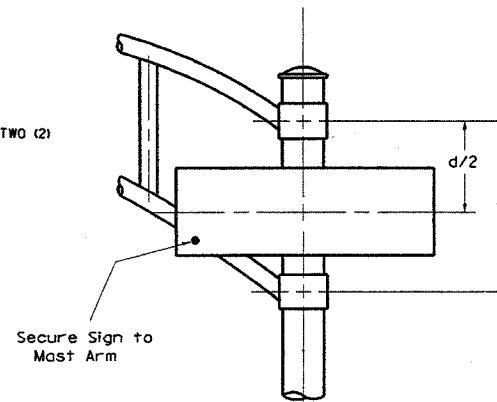
A	B	C
18"	2"	14"



### SUPPORTING CHANNELS



A	B	C
18"	2"	12"
30"	2"	22"



**DUAL ARM**  
SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM  
Shall be used. See Note #5.

NOTE: SIGN DIMENSIONS ARE IN ENGLISH UNITS

### PANEL SIGN DESIGN TYPE 2



— Sq. Ft. each  
15.0 Sq. Ft. each  
— 1 Required  
Design Series C.

### GENERAL NOTES

- WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 834001, 834006 AND 834011, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 6'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
  - ALL SIGNS SHALL HAVE A WHITE REFLECTORIZED LEGEND AND BORDER ON A GREEN REFLECTORIZED BACKGROUND, TYPE A SHEETING.
  - THE SIGN LENGTH SHOULD BE INCREASED IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHOULD NOT EXCEED 6'-0".
  - ALL BORDERS SHALL BE 3/4" WIDE AND CORNER RADIUS SHALL BE 2-1/4".
  - SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS. LOCAL SUPPLIERS OF THE SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM ARE:
    - A.K.T. CORPORATION, SCHAUMBURG, IL
    - TUCKER COMPANY, INC., WAUWATOSA, WI
    - AMERICAN FABRICATION CO., CHICAGO HEIGHTS, IL
    - WESTERN TRAFFIC CONTROL INC., CICERO, IL
- PARTS LISTING:**  
SIGN CHANNEL: PART #HPN053 (MED. CHANNEL)  
SIGN SCREWS: 1/4" x 14 x 1" H.W.H. #3  
BRACKETS: PART #HPN034 (UNIVERSAL)  
CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING
- OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

Upper Case To Lower Case  
Spacing Chart 8-6 Inch Series "C & D"

EXAMPLE, 2<sup>3</sup> DENOTES 3/8"

FIRST LETTER	SECOND LETTER															
	acde		bhikl		f w		j		s t		v y		x		z	
	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
A W X	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>
B	1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>
C E G	1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>
D O O R	1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>4</sup>	1 <sup>5</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>
F	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>4</sup>	1 <sup>5</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>
H I M N	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>2</sup>	2 <sup>4</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>
J U	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>0</sup>	2 <sup>1</sup>
K L	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>
P	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>
S	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>
T	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>6</sup>	1 <sup>7</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>
V	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>
Y	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>4</sup>	1 <sup>5</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>5</sup>	0 <sup>7</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>
Z	1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>2</sup>	2 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>0</sup>	2 <sup>1</sup>

Lower Case To Lower Case  
Spacing Chart 6 Inch Series "C & D"

FIRST LETTER	SECOND LETTER															
	acde		bhikl		f w		j		s t		v y		x		z	
	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
ad h g i j	1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>2</sup>	2 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>
l m n q u																
b f k o p s	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>
c e	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>
r	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>3</sup>	0 <sup>3</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>6</sup>	1 <sup>0</sup>
t z	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>
v y	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>
w	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>
x	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>

Number To Number  
Spacing Chart 8 Inch Series "C & D"

FIRST NUMBER	SECOND NUMBER																			
	0		1		2		3		4		5		6		7		8		9	
	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
0 9	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>
1	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>
2 3 4	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>
5	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>
6	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>
7	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>5</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>
8	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>

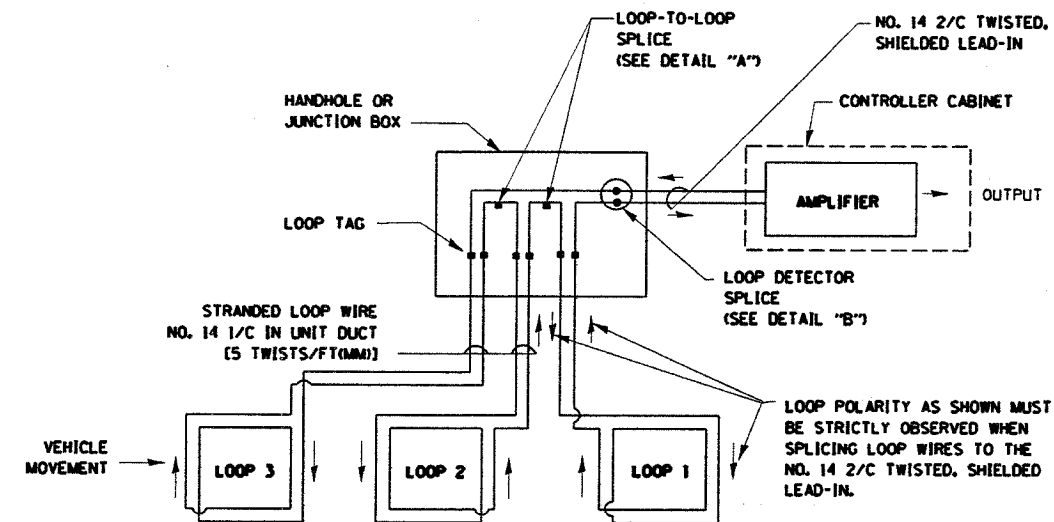
LETTERS	UPPER AND LOWER CASE LETTER WIDTHS									
	6 INCH UPPER CASE LETTERS		8 INCH UPPER CASE LETTERS		6 INCH LOWER CASE LETTERS					
	SERIES		SERIES		SERIES		SERIES			
S	C	D	C	D	S	C	D	S	C	D
A	3 <sup>6</sup>	5 <sup>0</sup>	5 <sup>0</sup>	6 <sup>5</sup>	a	3 <sup>5</sup>	4 <sup>2</sup>			
B	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	b	3 <sup>5</sup>	4 <sup>2</sup>			
C	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	c	3 <sup>5</sup>	4 <sup>1</sup>			
D	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	d	3 <sup>5</sup>	4 <sup>2</sup>			
E	3 <sup>0</sup>	3 <sup>5</sup>	4 <sup>0</sup>	4 <sup>7</sup>	e	3 <sup>5</sup>	4 <sup>2</sup>			
F	3 <sup>0</sup>	3 <sup>5</sup>	4 <sup>0</sup>	4 <sup>7</sup>	f	2 <sup>3</sup>	2 <sup>6</sup>			
G	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	g	3 <sup>5</sup>	4 <sup>2</sup>			
H	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	h	3 <sup>5</sup>	4 <sup>2</sup>			
I	0 <sup>7</sup>	0 <sup>7</sup>	1 <sup>1</sup>	1 <sup>2</sup>	i	1 <sup>1</sup>	1 <sup>1</sup>			
J	3 <sup>0</sup>	3 <sup>6</sup>	4 <sup>0</sup>	5 <sup>0</sup>	j	2 <sup>0</sup>	2 <sup>2</sup>			
K	3 <sup>2</sup>	4 <sup>1</sup>	4 <sup>3</sup>	5 <sup>4</sup>	k	3 <sup>5</sup>	4 <sup>2</sup>			
L	3 <sup>0</sup>	3 <sup>5</sup>	4 <sup>0</sup>	4 <sup>7</sup>	l	1 <sup>1</sup>	1 <sup>1</sup>			
M	3 <sup>7</sup>	4 <sup>5</sup>	5 <sup>1</sup>	6 <sup>1</sup>	m	6 <sup>0</sup>	7 <sup>0</sup>			
N	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	n	3 <sup>5</sup>	4 <sup>2</sup>			
O	3 <sup>4</sup>	4 <sup>2</sup>	4 <sup>5</sup>	5 <sup>5</sup>	o	3 <sup>6</sup>	4 <sup>3</sup>			
P	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	p	3 <sup>5</sup>	4 <sup>2</sup>			
Q	3 <sup>4</sup>	4 <sup>2</sup>	4 <sup>5</sup>	5 <sup>5</sup>	q	3 <sup>5</sup>	4 <sup>2</sup>			
R	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>							



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334 IIRS-5&116 B-1		MCHEMRY	38	57
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
CONTRACT # 60A91				

### LOOP DETECTOR NOTES

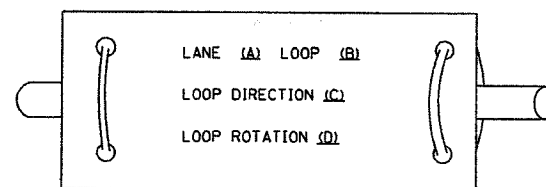
1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE UNIT DUCT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). UNIT DUCT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVESHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON, BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.



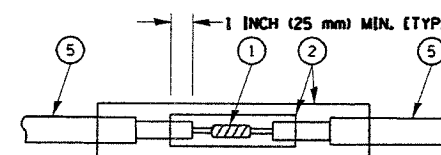
#### DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

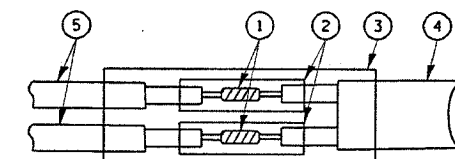
#### LOOP LEAD-IN CABLE TAG



- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



DETAIL "A"  
LOOP-TO-LOOP SPLICE



DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

#### LOOP DETECTOR SPLICE

- 1 WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.
- 2 WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- 3 WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- 4 NO. 14 2/C TWISTED, SHIELDED CABLE.
- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
DISTRICT ONE  
STANDARD TRAFFIC SIGNAL  
DESIGN DETAILS

SCALE: VERT. NONE  
HORIZ. NONE  
DATE 1-01-02

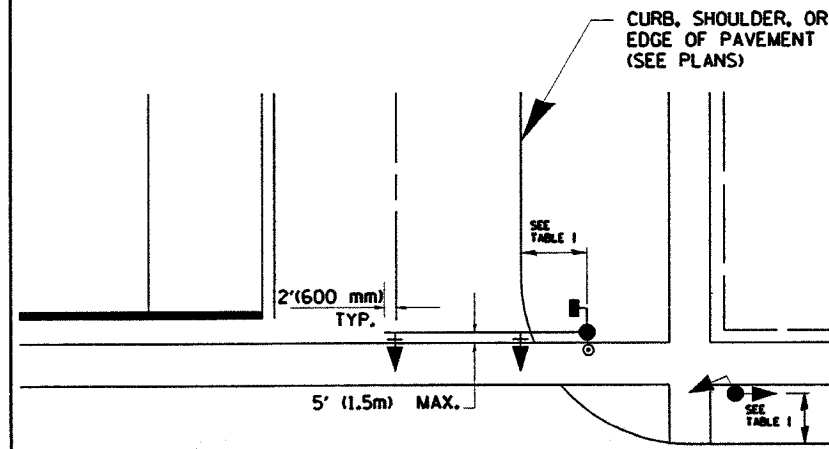
DRAWN BY: RWP  
DESIGNED BY: DAD  
CHECKED BY: DAZ  
SHEET 1 OF 4

c:\projects\traffic\050013\0131.dgn

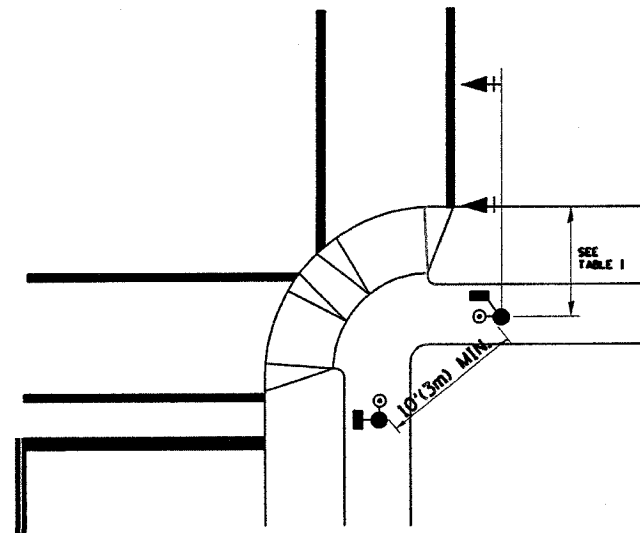
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	11RS-5&116 B-1	McHENRY	98	58
STA.	TO STA.			
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
CONTRACT # 60A91				

### TRAFFIC SIGNAL MAST ARM AND POST

MAST ARM MOUNTED SIGNAL IN PROPOSED & FUTURE SIDEWALK AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNAL AND PUSHBUTTON DETECTOR



### PEDESTRIAN SIGNAL PUSHBUTTON



RECOMMENDED PUSHBUTTON LOCATIONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHALL BE IN ACCORDANCE WITH THE CURRENT MUTCD (SEE NOTE 1). TO MEET MUTCD REQUIREMENTS, PEDESTRIAN SIGNAL PUSHBUTTONS MAY HAVE TO BE MOUNTED ON A SEPARATE POST.

### NOTES:

- AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS WITH PEDESTRIAN ACTUATION, EACH PUSHBUTTON SHALL ACTIVATE BOTH THE WALK INTERVAL AND THE ACCESSIBLE PEDESTRIAN SIGNALS.  
 AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS, PUSHBUTTONS SHOULD CLEARLY INDICATE WHICH CROSSWALK SIGNAL IS ACTUATED BY EACH PUSHBUTTON. PUSHBUTTONS AND TACTILE ARROWS SHOULD HAVE HIGH VISUAL CONTRAST (SEE THE DEPARTMENT OF JUSTICE'S AMERICANS WITH DISABILITIES ACT STANDARDS FOR ACCESSIBLE DESIGN, 1991). TACTILE ARROWS SHOULD POINT IN THE SAME DIRECTION AS THE ASSOCIATED CROSSWALK. AT CORNERS OF SIGNALIZED LOCATIONS WITH ACCESSIBLE PEDESTRIAN SIGNALS WHERE PEDESTRIAN PUSHBUTTONS ARE PROVIDED, THE PUSHBUTTONS SHOULD BE SEPARATED BY THE DISTANCE OF AT LEAST 10 FT (3m). THIS ENABLES PEDESTRIANS WHO HAVE VISUAL DISABILITIES TO DISTINGUISH AND LOCATE THE APPROPRIATE PUSHBUTTON.  
 PUSHBUTTONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHOULD BE LOCATED AS FOLLOWS:  
 A: ADJACENT TO A LEVEL ALL-WEATHER SURFACE TO PROVIDE ACCESS FROM A WHEELCHAIR, AND WHERE THERE IS AN ALL WEATHER SURFACE, WHEELCHAIR ACCESSIBLE ROUTE TO THE RAMP.  
 B: WITHIN 5 FT (1.5m) OF THE CROSSWALK EXTENDED.  
 C: WITHIN 10 FT (3m) OF THE EDGE OF CURB, SHOULDER, OR PAVEMENT.  
 D: PARALLEL TO THE CROSSWALK TO BE USED (SEE MUTCD FIGURE 4E-2).  
 E: NORMAL PEDESTRIAN PUSHBUTTON MOUNTING HEIGHT SHOULD BE 3.5 FT (1.05m) ABOVE ADJACENT SIDEWALK
- PEDESTRIAN SIGNAL FACES SHALL BE MOUNTED WITH THE BOTTOM OF THE HOUSING NOT LESS THAN 8 FT (2.4m) NOR MORE THAN 10 FT (3.0m) ABOVE THE SIDEWALK LEVEL AND SO THERE IS A PEDESTRIAN INDICATION IN THE LINE OF PEDESTRIANS' VISION WHICH PERTAINS TO THE CROSSWALK BEING USED.
- THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, NOT MOUNTED OVER A ROADWAY, SHALL BE AT LEAST 10 FT (3.0m) BUT NOT MORE THAN 15 FT (4.5m) ABOVE THE SIDEWALK OR, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE HIGHWAY IF NO SIDEWALKS EXIST.
- THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, MOUNTED OVER A ROADWAY, SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001 AND 877006. (16 FT (5m) MIN., 18 FT (5.5m) MAX., FROM HIGHEST POINT OF PAVEMENT)

### PEDESTRIAN SIGNAL POST

PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSHBUTTON DETECTOR LOCATION

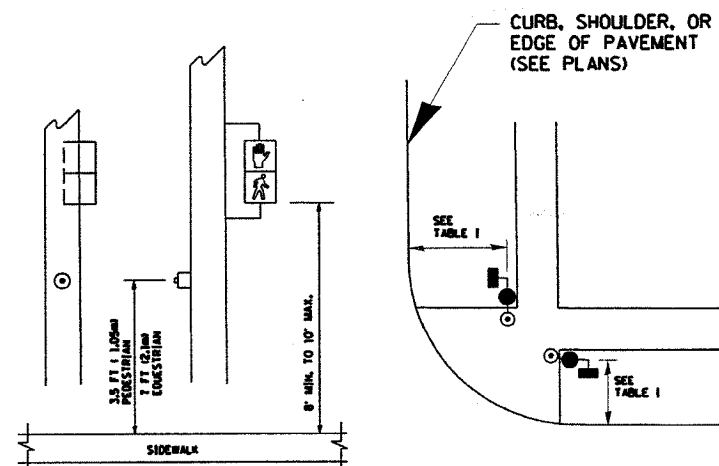


TABLE I

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MIN. DIST. FROM BACK OF CURB)	SHOULDER/NON-CURBED AREA (MIN. DIST. FROM EDGE OF PAVEMENT)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN PUSHBUTTON	SEE NOTE 1	SEE NOTE 1

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 DISTRICT 1  
 STANDARD TRAFFIC SIGNAL  
 DESIGN DETAILS

SCALE: VERT. NONE  
 HORIZ. NONE  
 DATE 1-01-02

DRAWN BY: RWP  
 DESIGNED BY: DAD  
 CHECKED BY: DAZ  
 SHEET 2 OF 4

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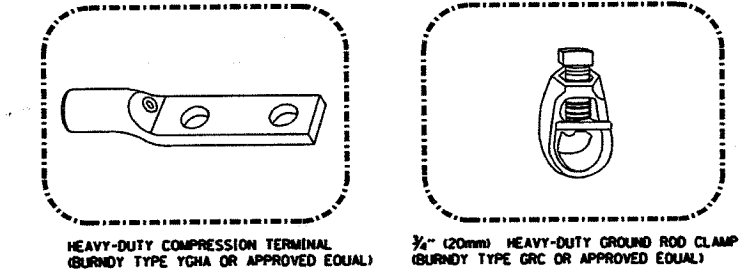
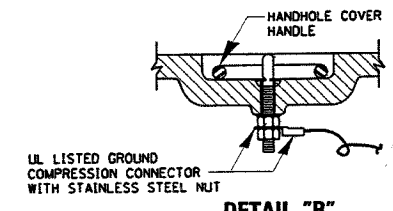
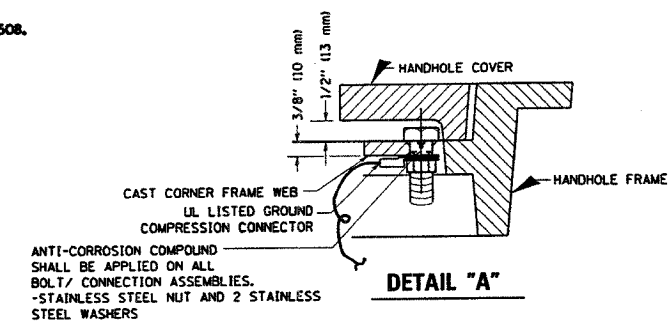
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	11RS-5&116 B-1	MCHENRY	98	59
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT # 60A91				

**NOTES:**

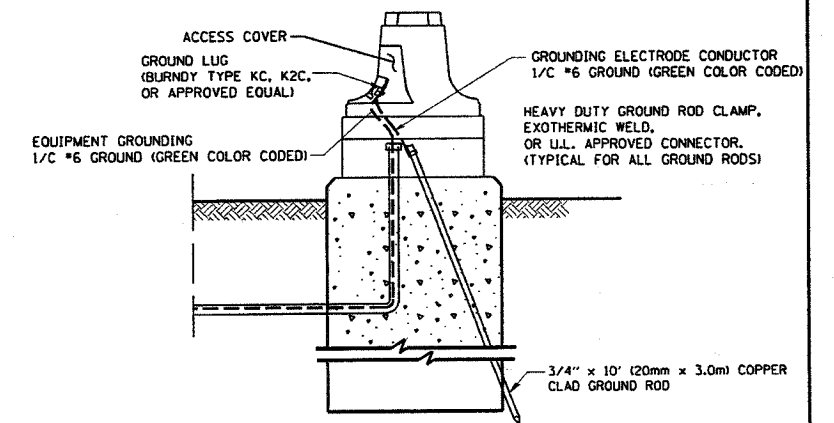
**GROUNDING SYSTEM**

1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



**NOTES:**

- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES. 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES. 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



**MAST ARM POLE / POST-GROUNDING DETAIL**  
(NOT TO SCALE)

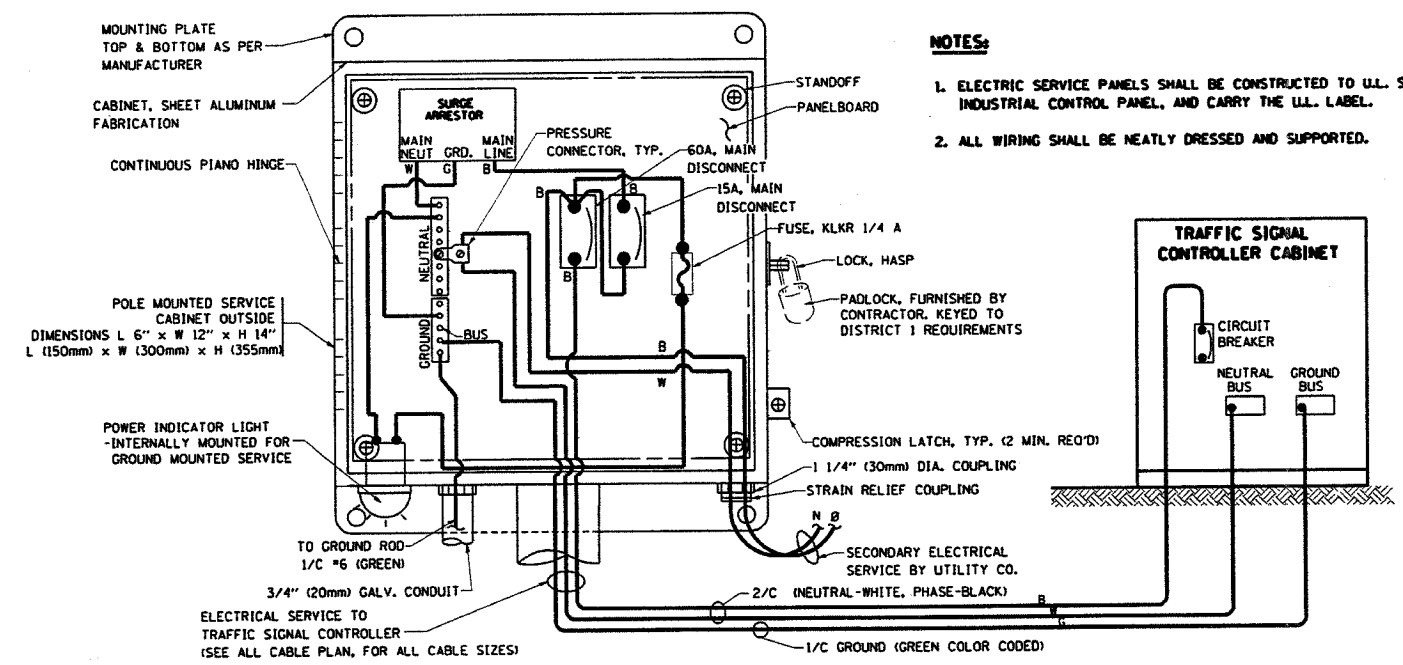
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**DISTRICT 1**  
**STANDARD TRAFFIC SIGNAL**  
**DESIGN DETAILS**

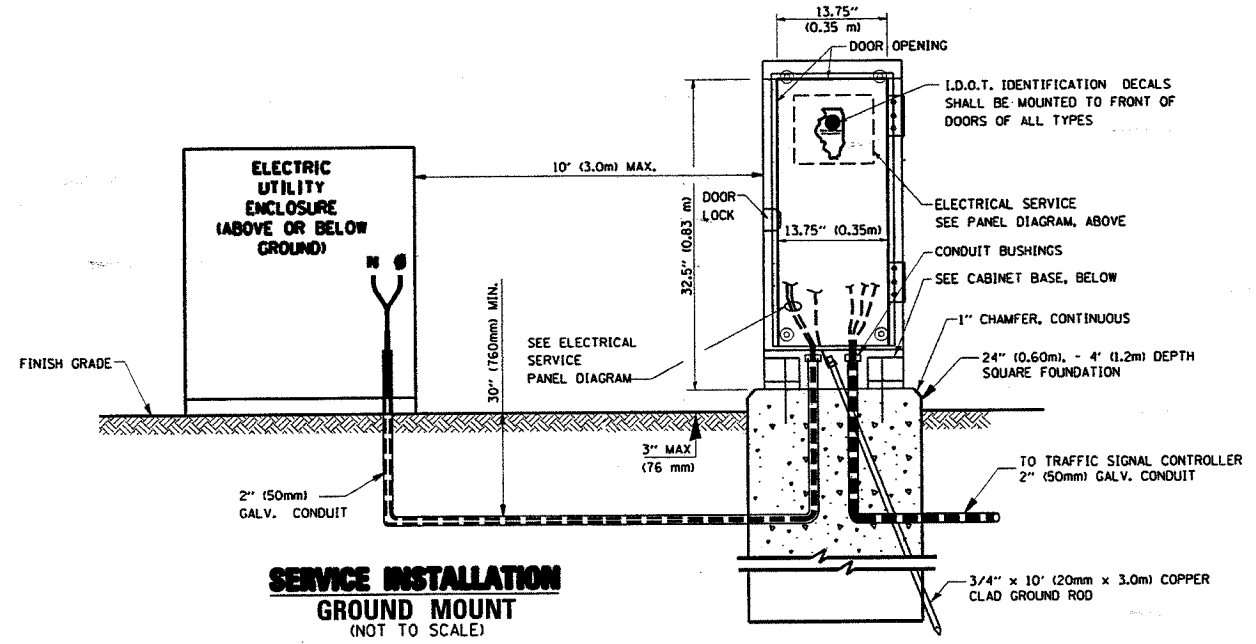
SCALE: VERT. NONE  
HORIZ. NONE  
DATE 1-01-02  
DRAWN BY: RWP  
DESIGNED BY: DAD  
CHECKED BY: DAZ  
SHEET 3 OF 4

**NOTES:**

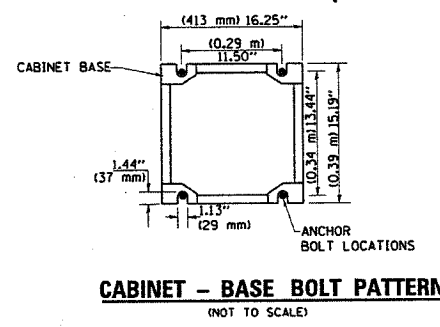
1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508. INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL.
2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.



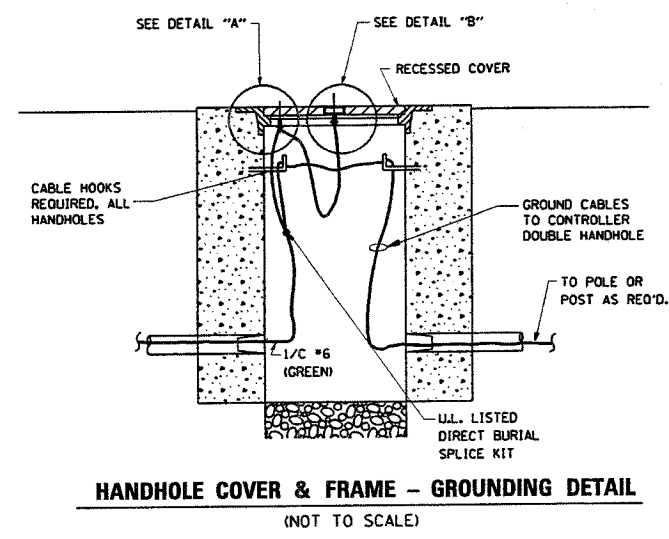
**ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)**  
**SERVICE INSTALLATION POLE MOUNT (SHOWN)**  
(NOT TO SCALE)



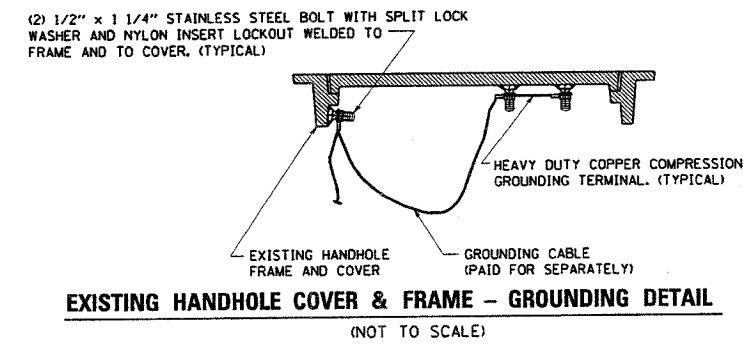
**SERVICE INSTALLATION GROUND MOUNT**  
(NOT TO SCALE)



**CABINET - BASE BOLT PATTERN**  
(NOT TO SCALE)



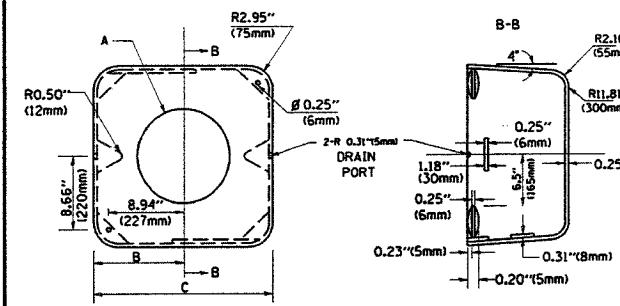
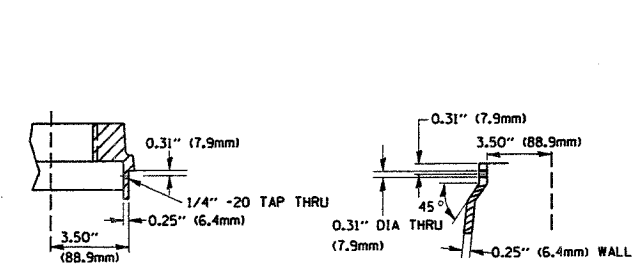
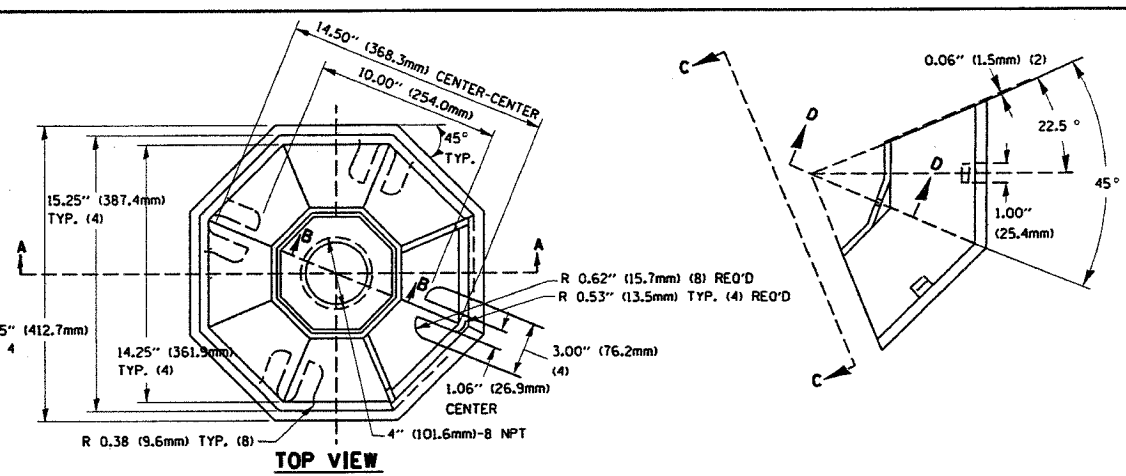
**HANDHOLE COVER & FRAME - GROUNDING DETAIL**  
(NOT TO SCALE)



**EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL**  
(NOT TO SCALE)

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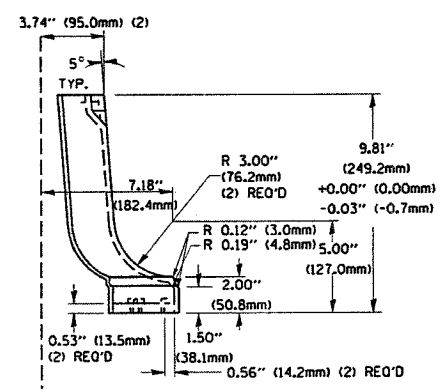
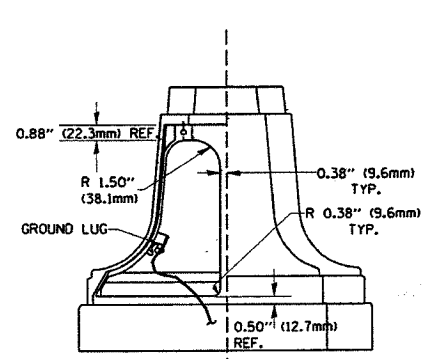
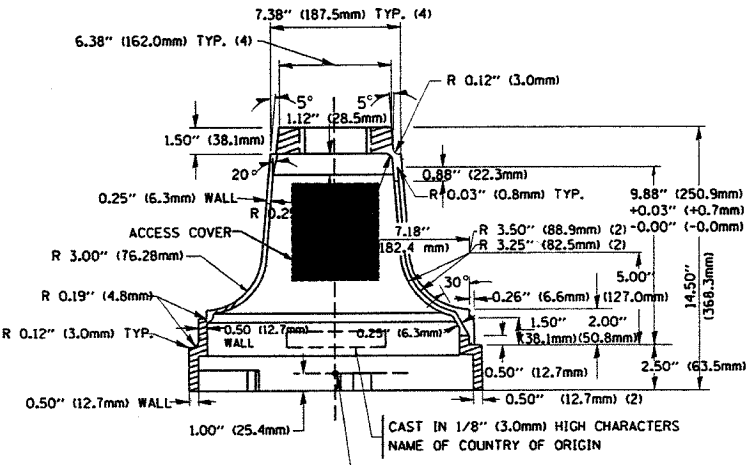
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334 IIRS-58116 B-1	MCHENRY	98	60	
TO STA.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
CONTRACT # 60A91				



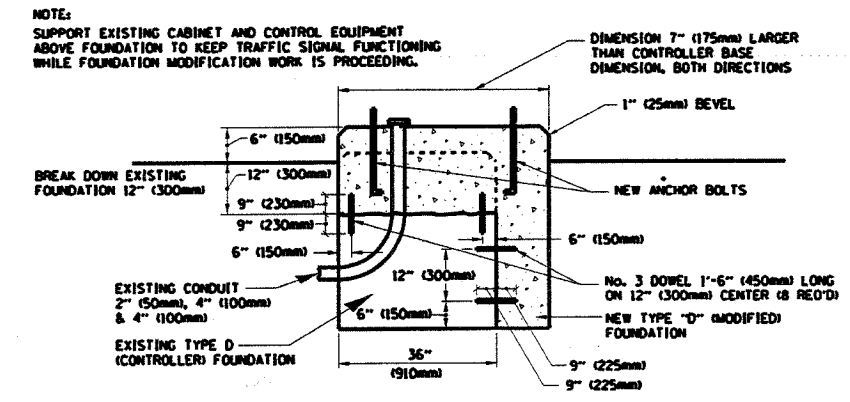
TYPE	A	B	C	HEIGHT	WEIGHT
I	ø 10.125\"(257mm)	9.5\"(241mm)	19\"(483mm)	12\"(300mm)	24kg
II	ø 11.125\"(283mm)	10.75\"(273mm)	21.5\"(546mm)	12\"(300mm)	26kg

MATERIAL:  
 - ASTM A48 CLASS 30 GREY IRON  
 - ASTM A123 HOT DIPPED GALVANIZED

SHROUD DETAIL

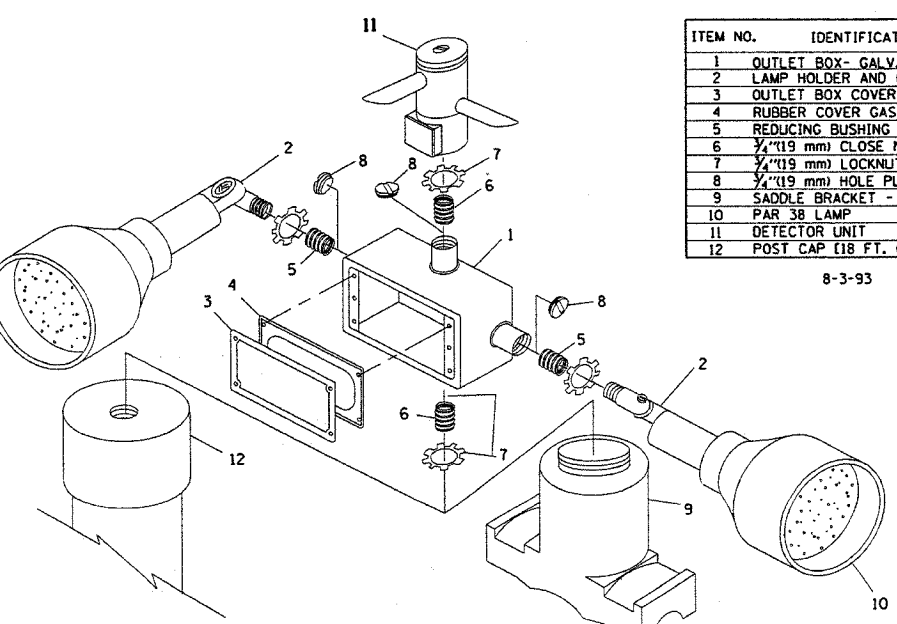


TRAFFIC SIGNAL POST - MOUNTING BASE - TYPE A



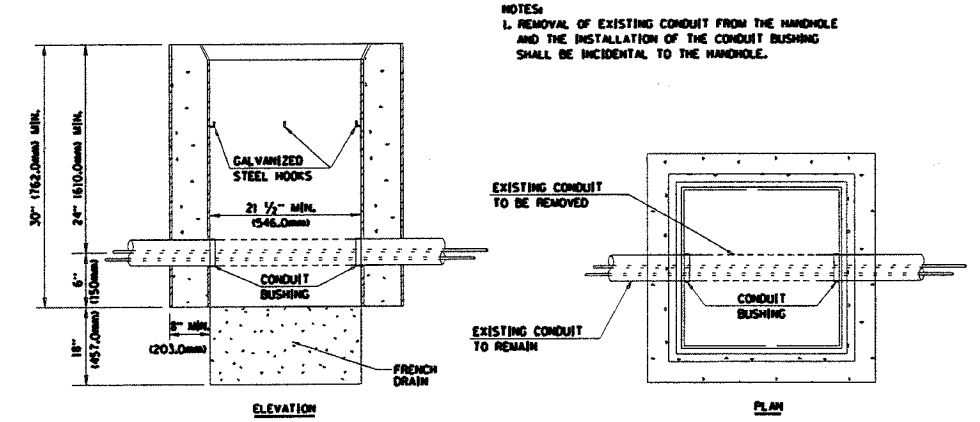
MODIFY EXISTING TYPE "D" FOUNDATION

NOTES:  
 SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.  
 DIMENSION 7\"(175mm) LARGER THAN CONTROLLER BASE DIMENSION, BOTH DIRECTIONS

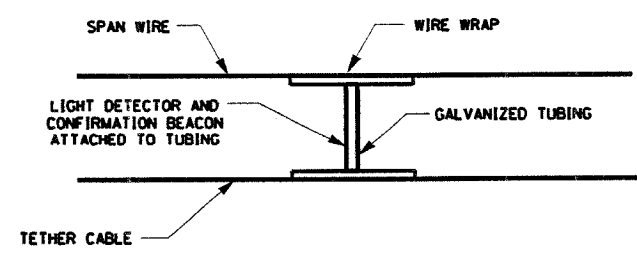


ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU. IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4\"(19 mm) CLOSE NIPPLE
7	3/4\"(19 mm) LOCKNUT
8	3/4\"(19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	PAR 38 LAMP
11	DETECTOR UNIT
12	POST CAP (18 FT. (5.4 m) POST MIN.)

- NOTES:
- ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
  - ITEM #1- OZ/GEORNEY FSX-1-50 OR EQUIVALENT  
 ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT  
 ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
  - WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4\"(19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



DETAIL HANDHOLE TO INTERCEPT EXISTING CONDUIT



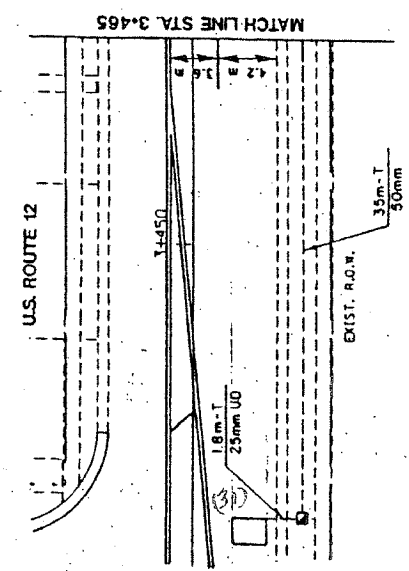
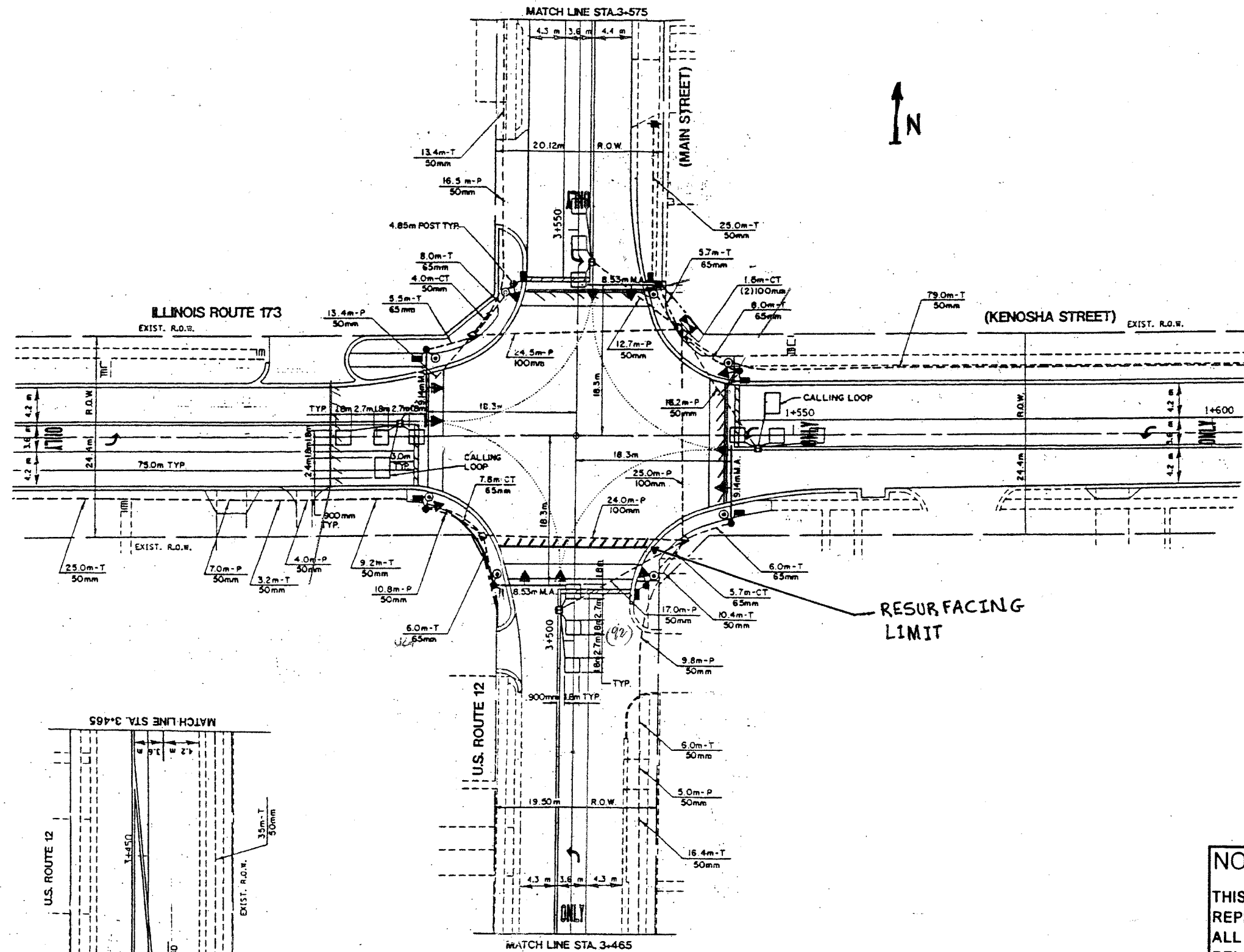
LIGHT DETECTOR AND CONFIRMATION BEACON MOUNTING FOR TEMPORARY TRAFFIC SIGNALS (NOT TO SCALE)

REVISIONS	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 DISTRICT 1  
 STANDARD TRAFFIC SIGNAL DESIGN DETAILS  
 SCALE: VERT. NONE  
 HORIZ. 1-01-02  
 DRAWN BY: RWP  
 DESIGNED BY: DAD  
 CHECKED BY: DAZ  
 SHEET 4 OF 4

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SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	MCHENRY	98	61
STA. TO STA.			
FED. ROAD DIST. NO. 7 ILLINOIS			
FED. AID PROJECT			
** 111 R5-5 & 116 B-1			



**REPLACE ALL DETECTOR LOOPS AS SHOWN**  
(WITHIN THE RESURFACING LIMITS)

CODE NO.	QUANTITY	UNIT	ITEM
86600600	123	Foot	Detector Loop Replacement

REVISIONS	
NAME	DATE

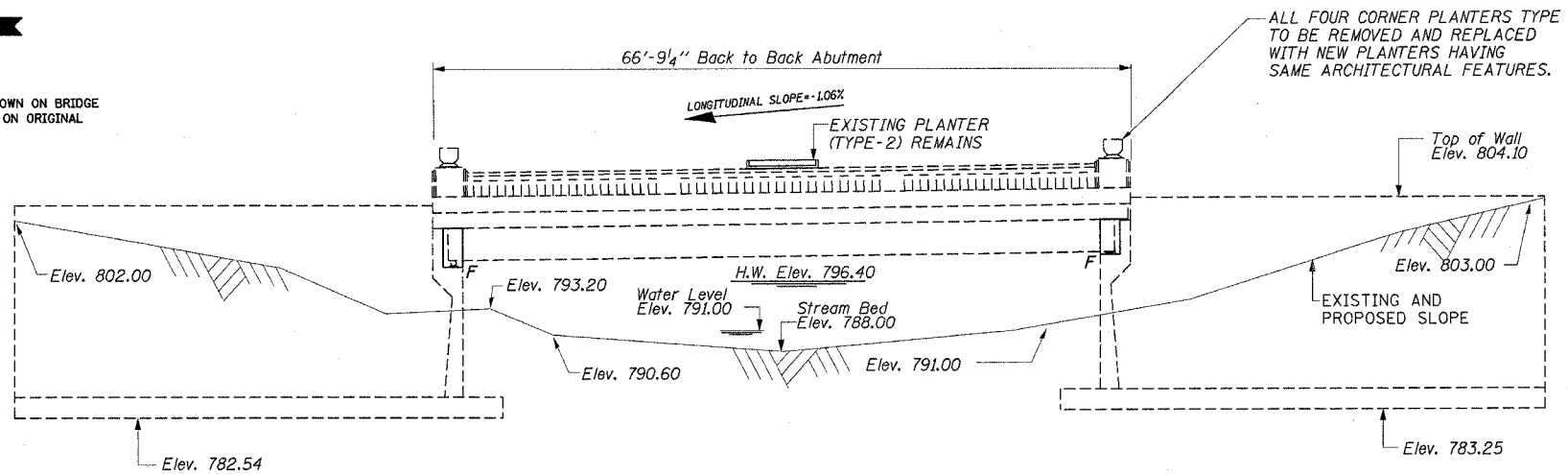
**NOTE:**  
THIS PLAN IS FOR THE PURPOSE OF REPLACING THE DETECTOR LOOPS ONLY. ALL OTHER INFORMATION SHOWN IS NOT RELATED AND WILL BE DISREGARDED.

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**DETECTOR LOOP REPLACEMENT**  
U.S. ROUTE 12 @ ILL. RTE. 173  
SCALE: NONE  
DATE: MAR. 2007  
DRAWN BY: JHE  
DESIGNED BY: JHE  
CHECKED BY: DAD

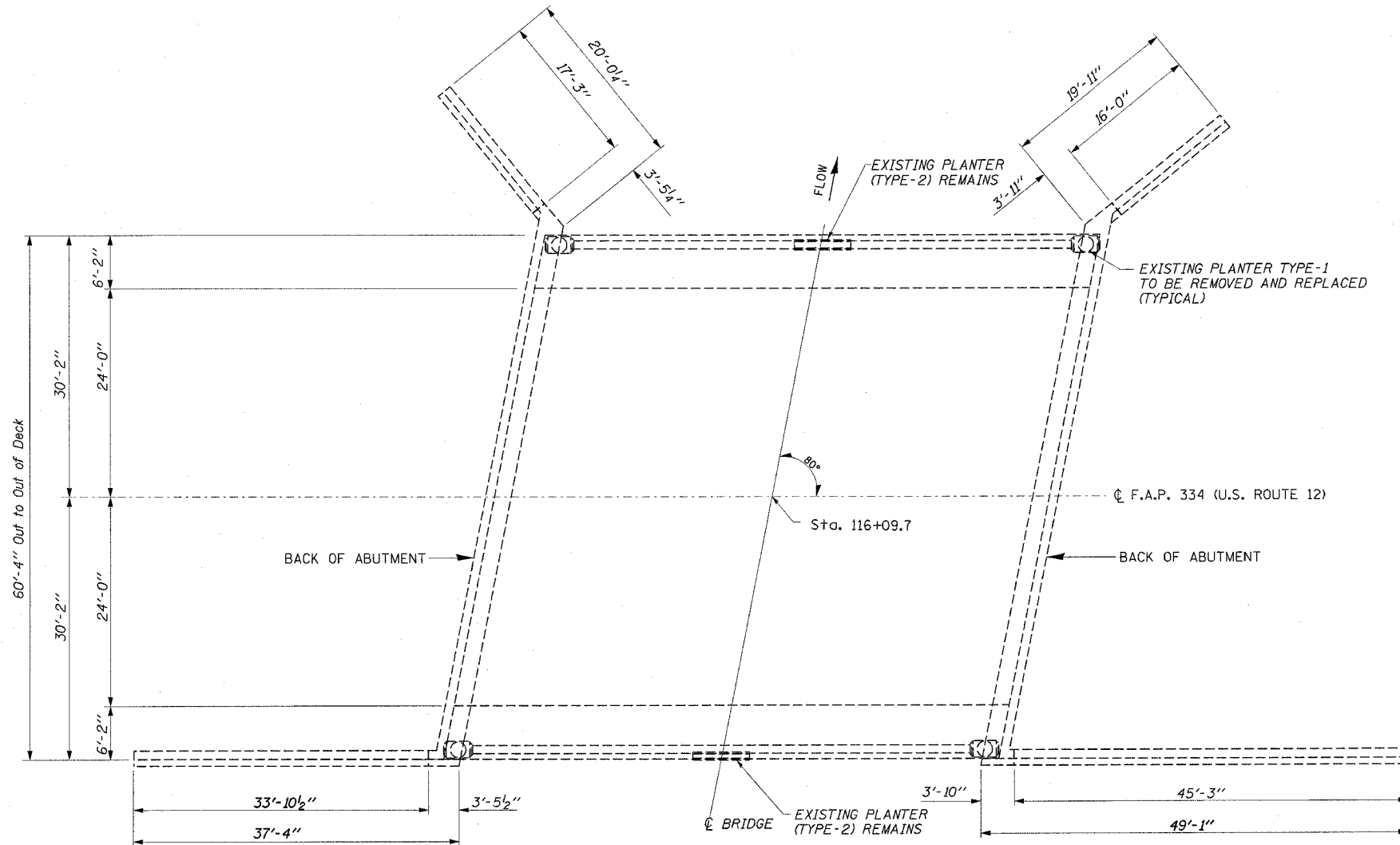
REF-  
REF-  
REF-



NOTE:  
NORTH ORIENTATIONS, SHOWN ON BRIDGE  
DRAWINGS, MATCH THOSE ON ORIGINAL  
AS BUILT DRAWINGS.



ELEVATION  
(LOOKING EAST)



PLAN

SHEET S1 OF S10

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	**	McHENRY	99	62
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
** 111 RS-5 & 116 B-1		CONTRACT NO. 60A91		

SCOPE OF WORK:  
AS SHOWN:

1. STRIP EXISTING BRIDGE DECK OVERLAY.
2. PATCH WHERE NECESSARY.
3. SCARIFY 1/4"
4. REMOVE AND ELIMINATE LONGITUDINAL JOINT.
5. PLUG ELEVEN EXISTING DECK DRAINS.
6. INSTALL CONCRETE DIAPHRAGMS.
7. APPLY 3/8" BRIDGE DECK THIN POLYMER OVERLAY.
8. PERFORM SIDE WALK REPAIRS.
9. PERFORM STRUCTURAL REPAIR OF CONCRETE.
10. REMOVE AND REPLACE ALL FOUR CORNER PLANTERS.

STATISTICS:

1997 ADT - 6800  
2015 ADT - 16,510  
POSTED SPEED - 35 mph  
ORIGINALLY CONSTRUCTED 1951

GENERAL NOTES:

Plan dimensions and details relative to existing plans are subject to routine 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 based upon the unit price bid for the work.

Reinforcement bars shall conform to the requirements of ASTM A 706 or 60 (L Modified). See Special Provisions

THE CONTRACTOR MUST USE EXTREME CARE DURING CONCRETE REMOVAL AS NOT TO NICK, CUT, OR DAMAGE ANY OF THE STRUCTURAL STEEL AND NOT TO DAMAGE OR CUT ANY EXISTING REINFORCEMENT BARS THAT ARE TO BE INCORPORATED INTO THE NEW CONSTRUCTION. ANY DAMAGE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

ANY REINFORCEMENT BARS THAT ARE DAMAGED DURING CONCRETE REMOVAL SHALL BE REPLACED WITH AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST SHALL BE INCLUDED IN COST OF "CONCRETE REMOVAL".

FIELD CUTS OF PROPOSED REINFORCEMENT BARS TO FIT FIELD CONDITIONS SHALL BE INCLUDED IN THE COST OF REINFORCEMENT BARS EPOXY COATED.

REINFORCEMENT DESIGNATED (E) SHALL BE EPOXY COATED.  
DO NOT SCALE DIMENSIONS.

NOTE:

CREEK BED SURVEYED, NOVEMBER, 2003

TOTAL BILL OF MATERIALS

ITEM	UNIT	QUANTITY
Reinforcement Bars, (Epoxy Coated)	POUND	4900
Concrete Superstructure	CU. YD.	28.8
Concrete Removal	CU. YD.	5.9
Concrete Bridge Deck Scarification, 1/4"	SQ. YD.	359
Deck Slab Repair (Partial Depth)	SQ. YD.	21
HMA Concrete Removal (Deck)	SQ. YD.	359
Structural Repair of Concrete < 5 Inches	SQ. FT.	491.5
Structural Repair of Concrete > 5 Inches	SQ. FT.	160
Plug Existing Deck Drains	EACH	11
Bridge Deck Thin Polymer Overlay, 3/8"	SQ. YD.	359
Planters	EACH	4

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
U.S. ROUTE 12 BRIDGE  
OVER NORTH BRANCH NIPPERSINK CREEK  
GENERAL PLAN AND ELEVATION  
S.N. 056-0017

SCALE : NONE  
DATE : APRIL, 2004

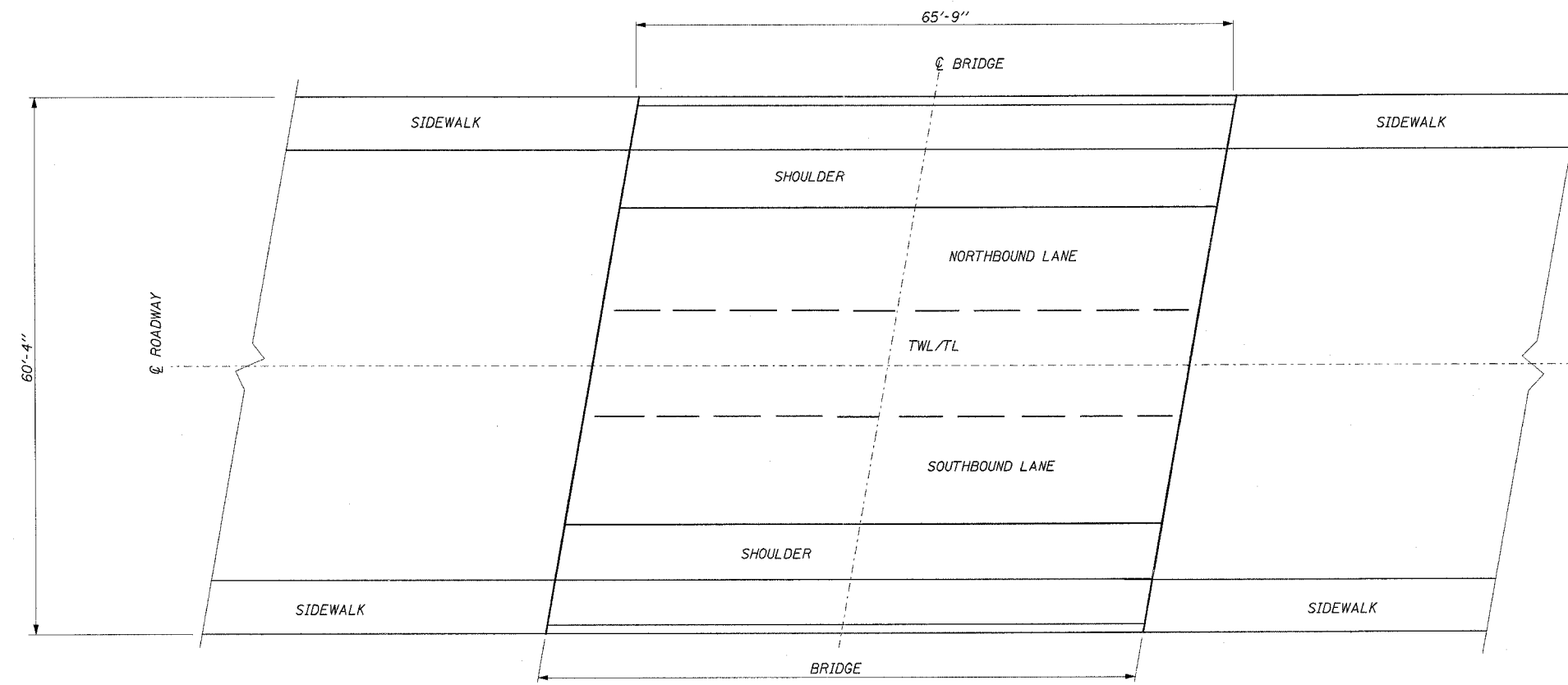
DRAWN BY : MVT  
CHECKED BY : RSS

DISTRICT ONE - DESIGN  
PLAN PREPARATION ENGINEER JOHN FORTMANN / RUSS SINHA (847) 705-4209 / ATTENTION MARK V. TINIAKOS (847) 705-4266



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	**	McHENRY	98	64
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____		ILLINOIS FED. AID PROJECT		
** 111 RS-5 & 116 B-1		CONTRACT NO. 60A91		

SHEET S3 OF S10

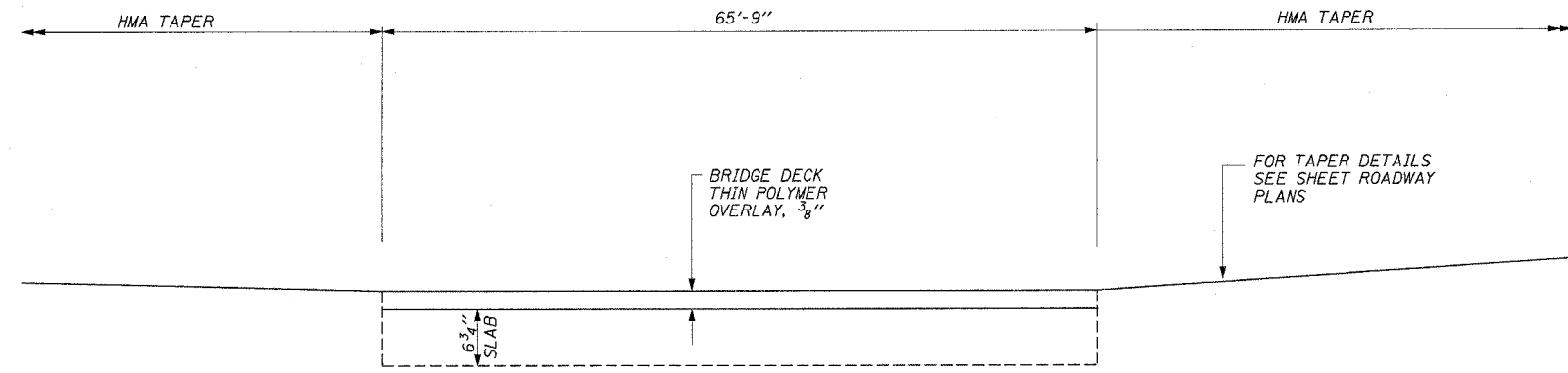


**BILL OF MATERIALS**

ITEM	UNIT	QUANTITY
Concrete Bridge Deck Scarification, 1/4"	SQ. YD.	359
Bridge Deck Thin Polymer Overlay Overlay, 3/8"	SQ. YD.	359
HMA Concrete Removal, (Deck)	SQ. YD.	359

5/10/2007 c:\projects\fruct\lbnippersink\_english.dgn DISTRICT ONE - DESIGN PLAN PREPARATION ENGINEER JOHN FORTMANN / RUSS SINHA (847) 705-4209 / ATTENTION MARK V. TINIAKOS (847) 705-4266

**LANE MARKINGS**  
(THE LANE MARKINGS SHALL MATCH WITH THE ROADWAY PROPOSED LANE MARKINGS)



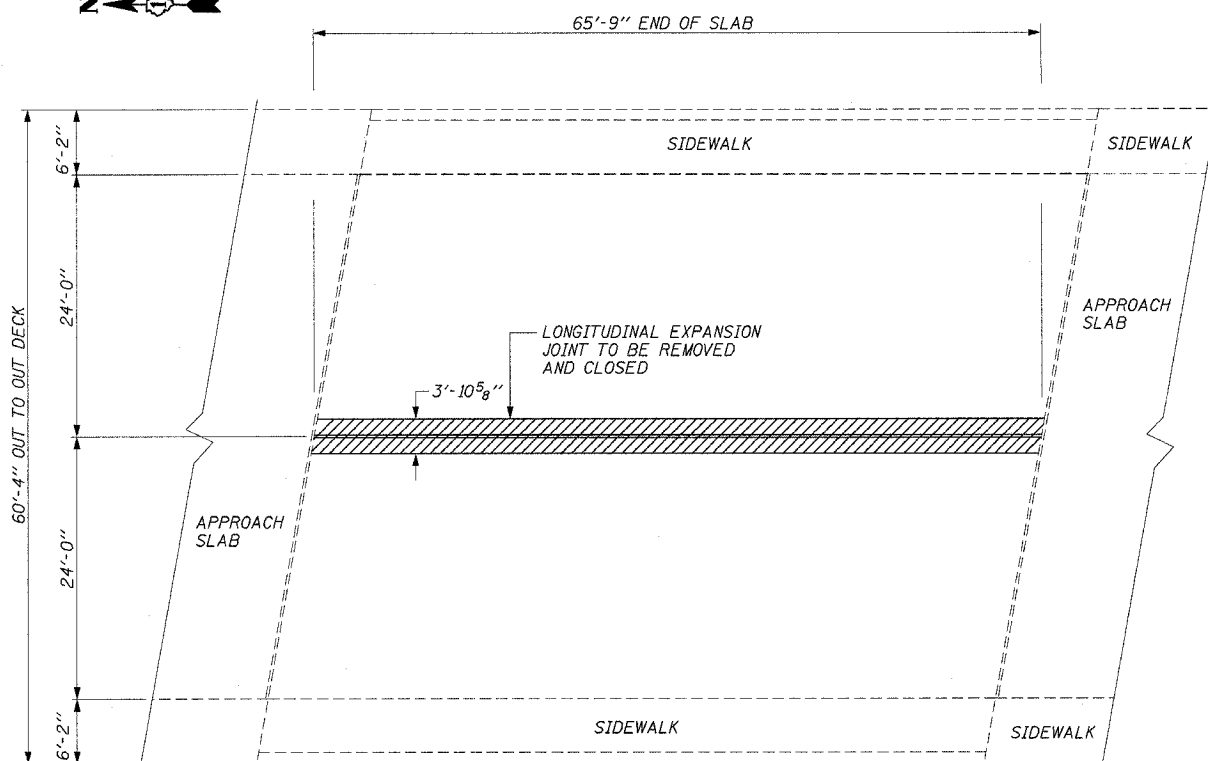
**DETAIL A**  
**LONGITUDINAL SECTION**  
(SHOWING DECK ONLY)

**NOTE:**  
TWL/TL = TWO WAY LANE TURN LANE

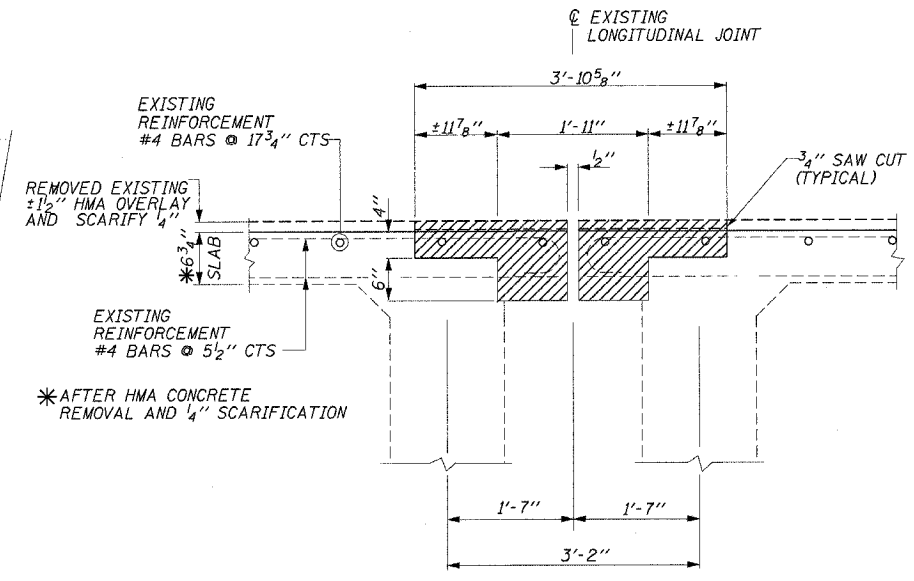
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION U.S. ROUTE 12 BRIDGE OVER NORTH BRANCH NIPPERSINK CREEK DECK OVERLAY S.N. 056-0017
NAME	DATE	
		SCALE: NONE DATE: APRIL, 2004 DRAWN BY: MVT CHECKED BY: RSS



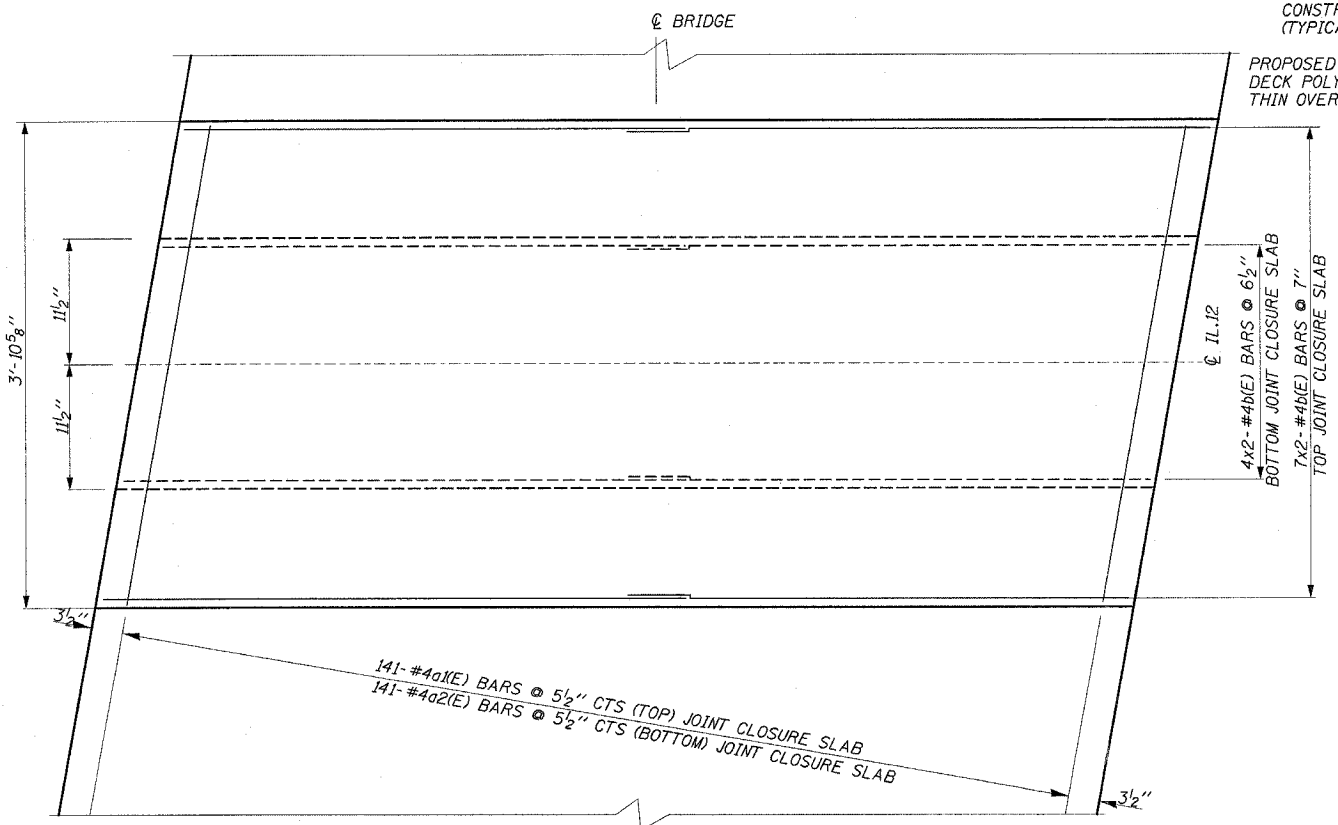
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	**	McHENRY	98	65
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
** 111 RS-5 & 116 B-1		CONTRACT NO. 60A91		



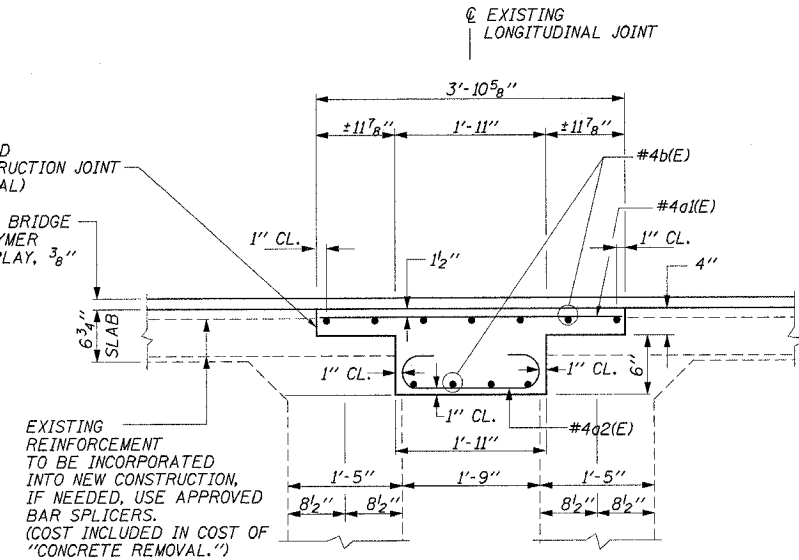
**EXPANSION JOINT**



**REMOVE EXISTING LONGITUDINAL EXPANSION JOINT**  
HATCHED AREA INDICATES REMOVAL



**REINFORCEMENT PLAN**  
**PROPOSED LONGITUDINAL EXPANSION JOINT CLOSURE SLAB**



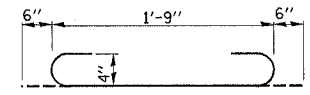
**PROPOSED LONGITUDINAL EXPANSION JOINT CLOSURE SLAB**

**BILL OF MATERIALS**

NO.	SIZE	LENGTH	SHAPE
a1(E)	141 #4	3'-9"	—
a2(E)	141 #4	2'-9"	⊔
b (E)	22 #4	34'-5"	—
REINFORCEMENT BARS (EPOXY COATED)			POUND
CONCRETE SUPERSTRUCTURE			CU. YD.
CONCRETE REMOVAL			CU. YD.

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED

**NOTE:**  
BARS INDICATED THUS 4x2 - #4 etc INDICATES 4 LINES OF BARS WITH 2 LENGTHS PER LINE.



**BARS a2(E)**

**BAR LAP TABLE**

SIZE	LENGTH
#4	1'-8"

5/10/2007  
 c:\projects\struct\nipper.sink\_english.dgn  
 DISTRICT ONE - DESIGN  
 PLAN PREPARATION ENGINEER JOHN FORTMANN / RUSS SINHA (847) 705-4209 / ATTENTION MARK V. TINIAKOS (847) 705-4266

**REVISIONS**

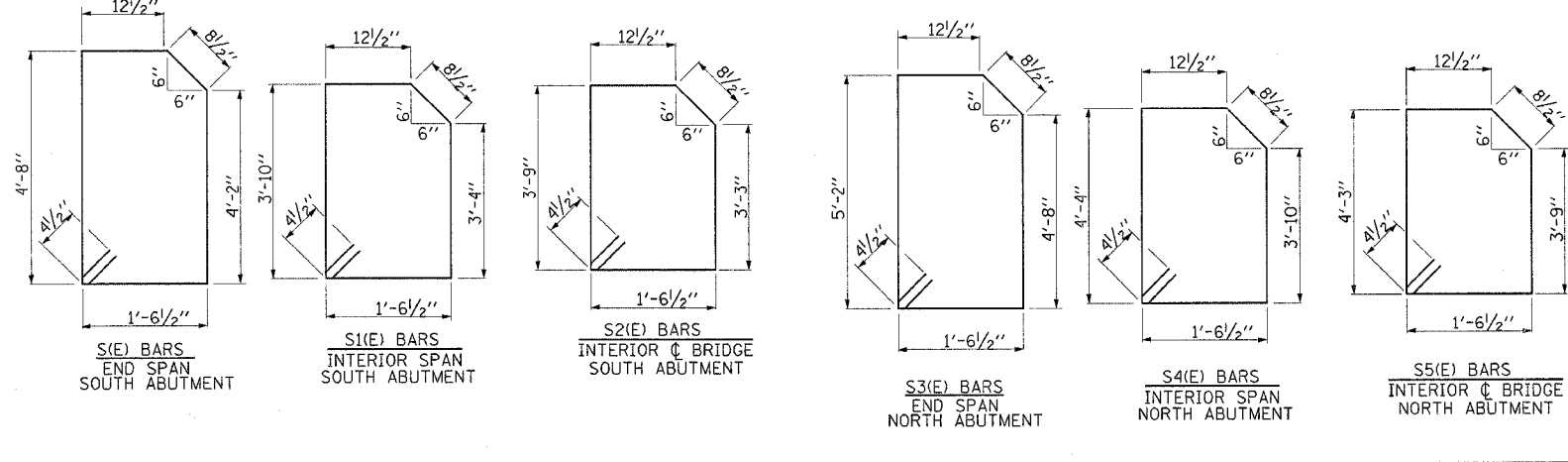
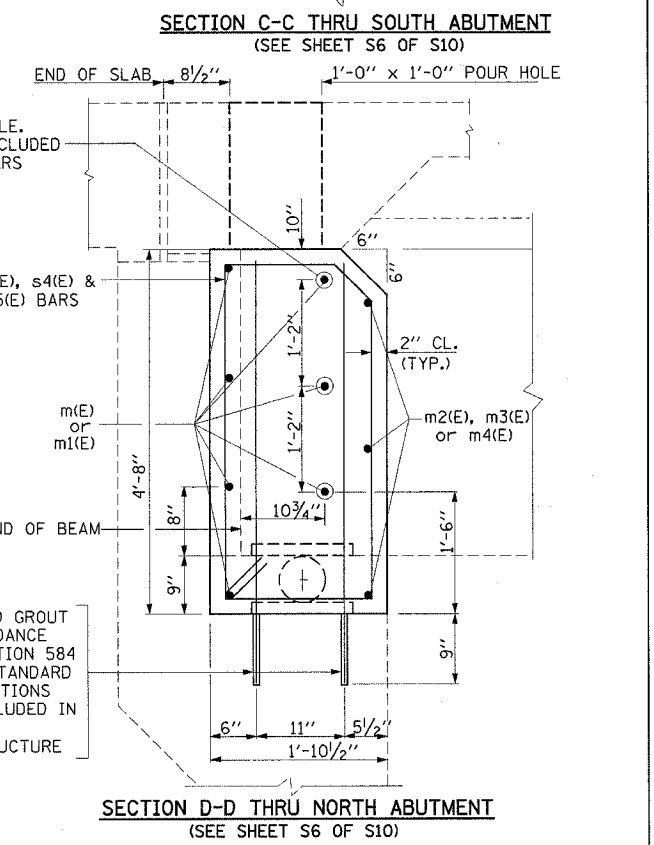
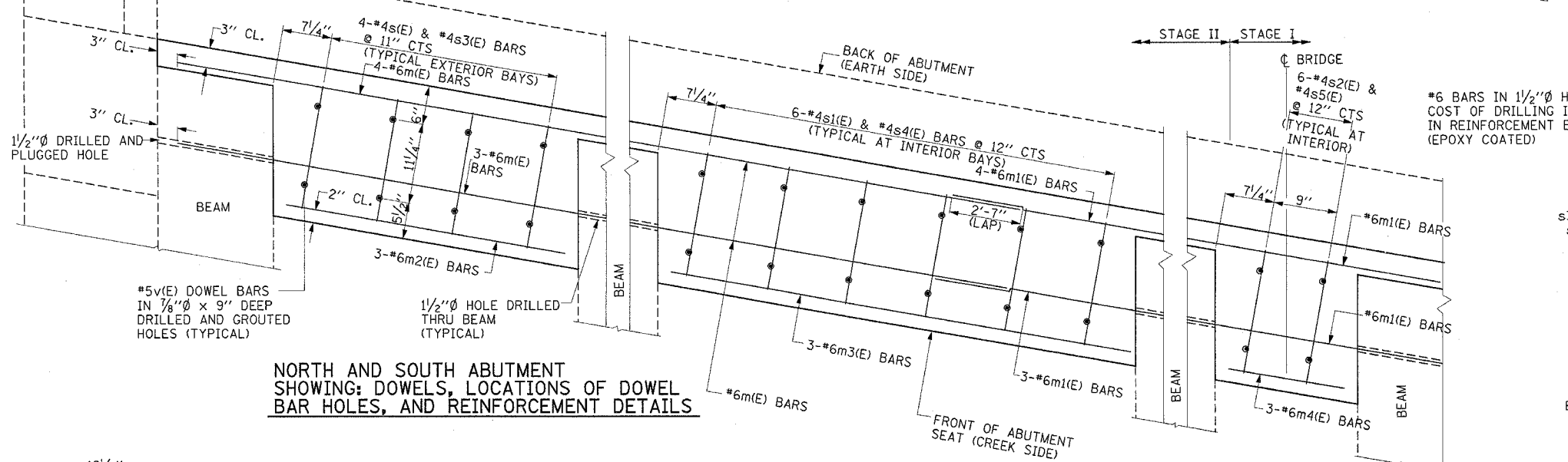
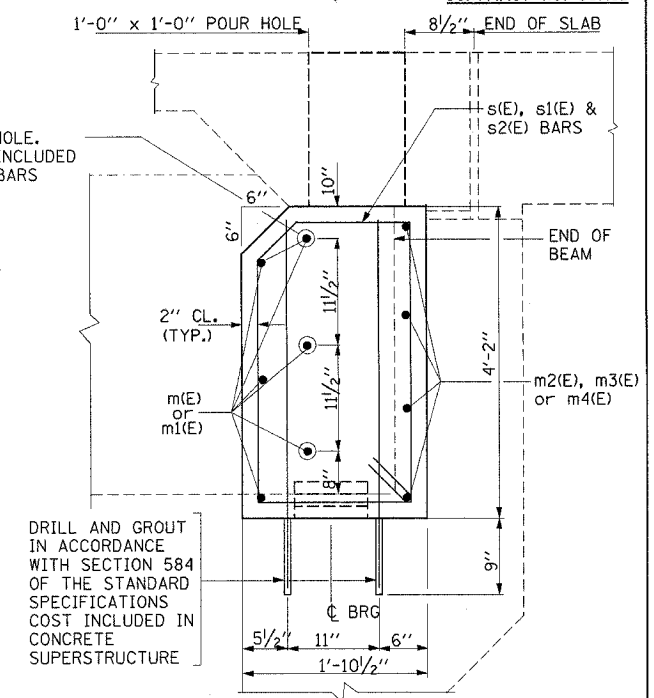
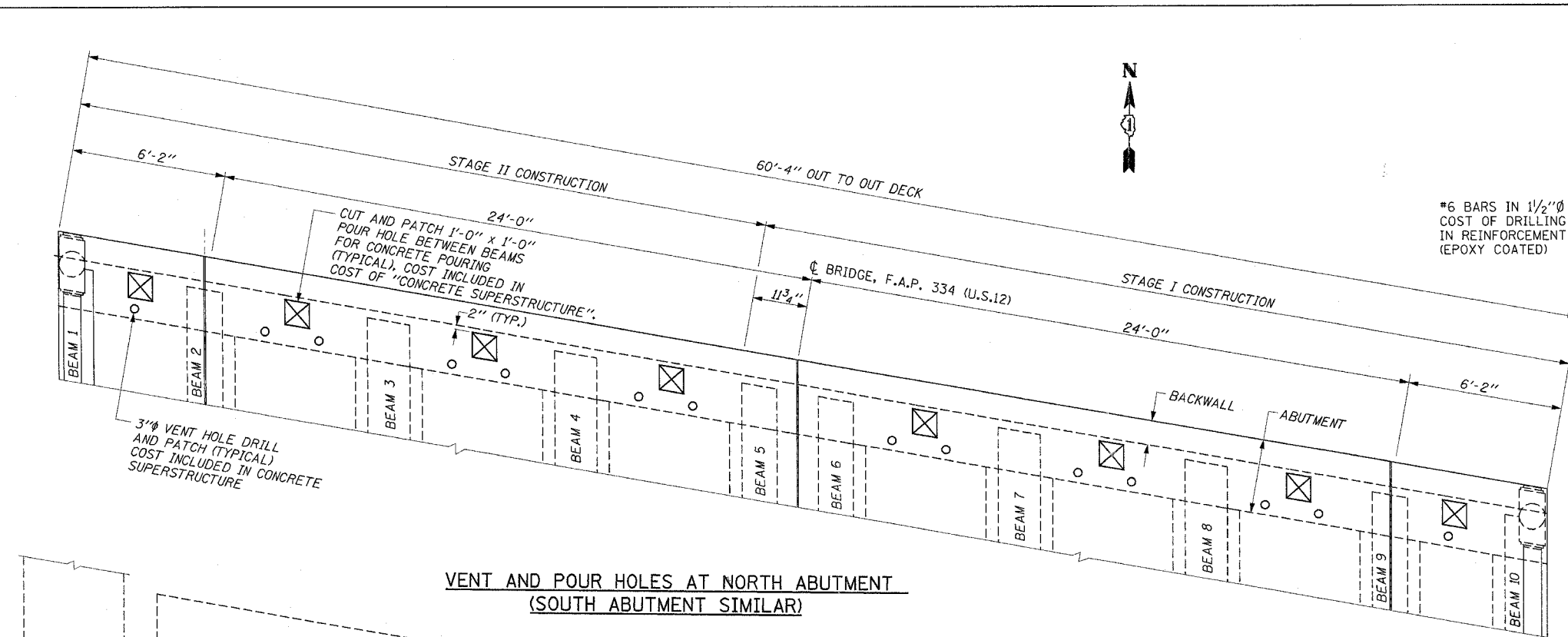
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 U.S. ROUTE 12 BRIDGE  
 OVER NORTH BRANCH NIPPERSINK CREEK  
 LONGITUDINAL JOINT REMOVAL  
 AND REPLACEMENT  
 SCALE: NONE S.N. 056-0017 DRAWN BY: MVT  
 DATE: APRIL, 2004 CHECKED BY: RSS

5/10/2007  
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DISTRICT ONE - DESIGN  
 PLAN PREPARATION ENGINEER JOHN FORTMANN / RUSS SINHA (847) 705-4209 / ATTENTION MARK V. TINIAKOS (847) 705-4266

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	**	McHENRY	98	66
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
** 111 RS-5 & 116 B-1			CONTRACT NO. 60A91	



REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION U.S. ROUTE 12 BRIDGE OVER NORTH BRANCH NIPPERSINK CREEK INTEGRAL ABUTMENT S.N. 056-0017
NAME	DATE	
		SCALE: NONE DATE: APRIL, 2004

DRAWN BY: MVT  
 CHECKED BY: RSS

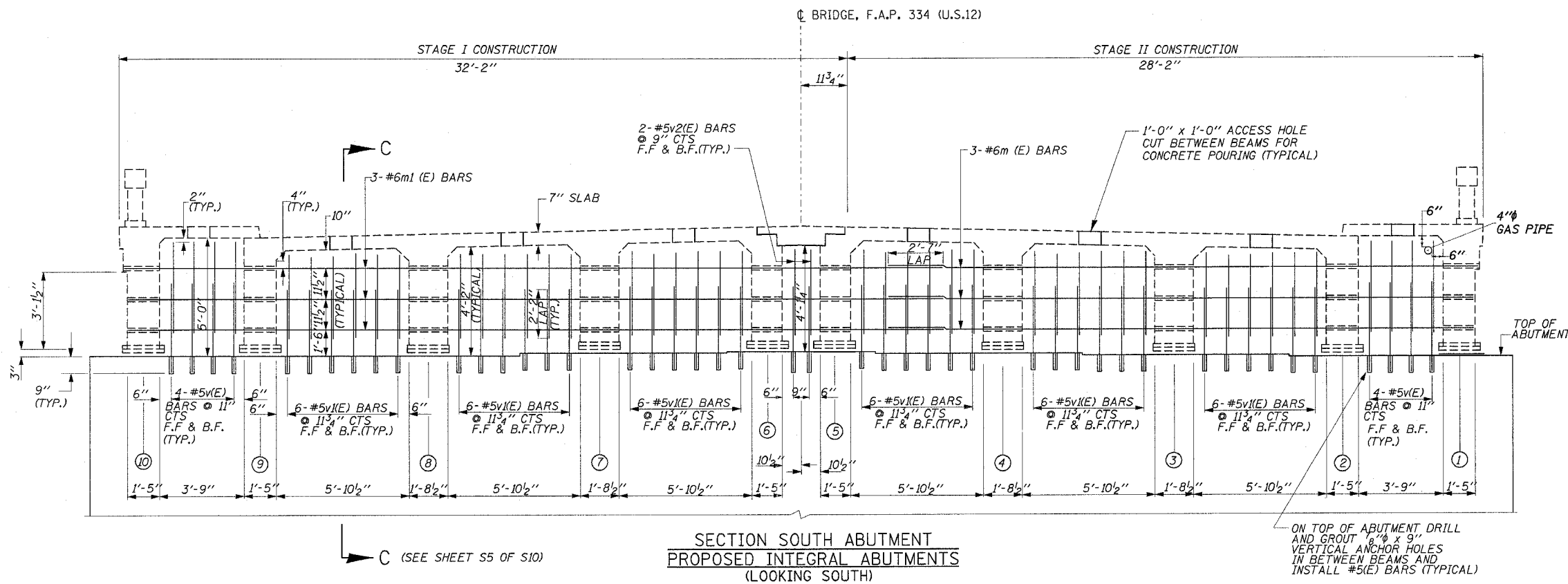
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	**	McHENRY	98	67
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
** 111 RS-5 & 116 B-1		CONTRACT NO. 60A91		

**BILL OF MATERIALS**

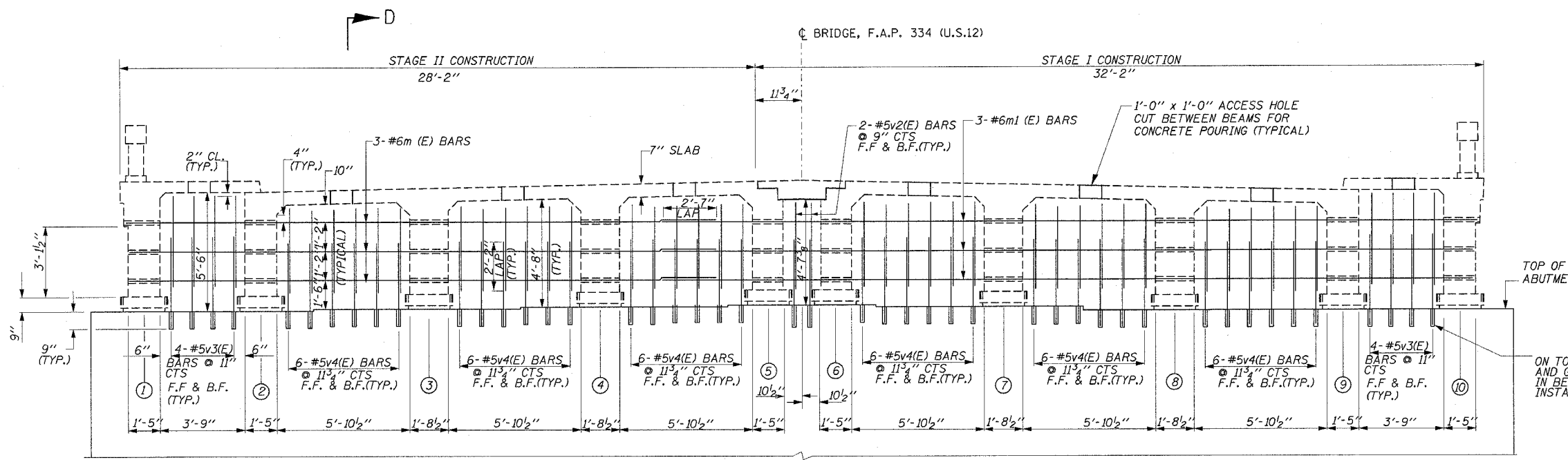
	NO.	SIZE	LENGTH	SHAPE
m(E)	14	#6	28'-1"	---
m1(E)	14	#6	34'-0"	---
m2(E)	12	#6	3'-5"	---
m3(E)	36	#6	5'-7"	---
m4(E)	6	#6	1'-5"	---
v(E)	32	#5	3'-11"	---
v1(E)	144	#5	3'-6"	---
v2(E)	8	#5	3'-7"	---
v3(E)	32	#5	4'-2"	---
v4(E)	144	#5	3'-9"	---
v5(E)	8	#5	3'-8"	---
s(E)	8	#4	12'-11"	D
s1(E)	36	#4	11'-3"	D
s2(E)	2	#4	11'-1"	D
s3(E)	8	#4	13'-11"	D
s4(E)	36	#4	12'-3"	D
s5(E)	2	#4	12'-1"	D
REINFORCEMENT BARS (EPOXY COATED)			POUND	3780
CONCRETE SUPERSTRUCTURE			CU. YD.	23.6
CONCRETE REMOVAL			CU. YD.	0.7

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED

5/10/2007 c:\projects\struct\piper\sink\_eng\sh.dgn DISTRICT ONE - DESIGN PLAN PREPARATION ENGINEER JOHN FORTMANN / RUSS SINHA (847) 705-4209 / ATTENTION MARK V. TINIAKOS (847) 705-4266



**SECTION SOUTH ABUTMENT  
PROPOSED INTEGRAL ABUTMENTS  
(LOOKING SOUTH)**



**SECTION NORTH ABUTMENT  
PROPOSED INTEGRAL ABUTMENT  
(LOOKING NORTH)**

**BAR LAP TABLE**

SIZE	LENGTH
#4	1' - 8"
#5	2' - 2"
#6	2' - 7"

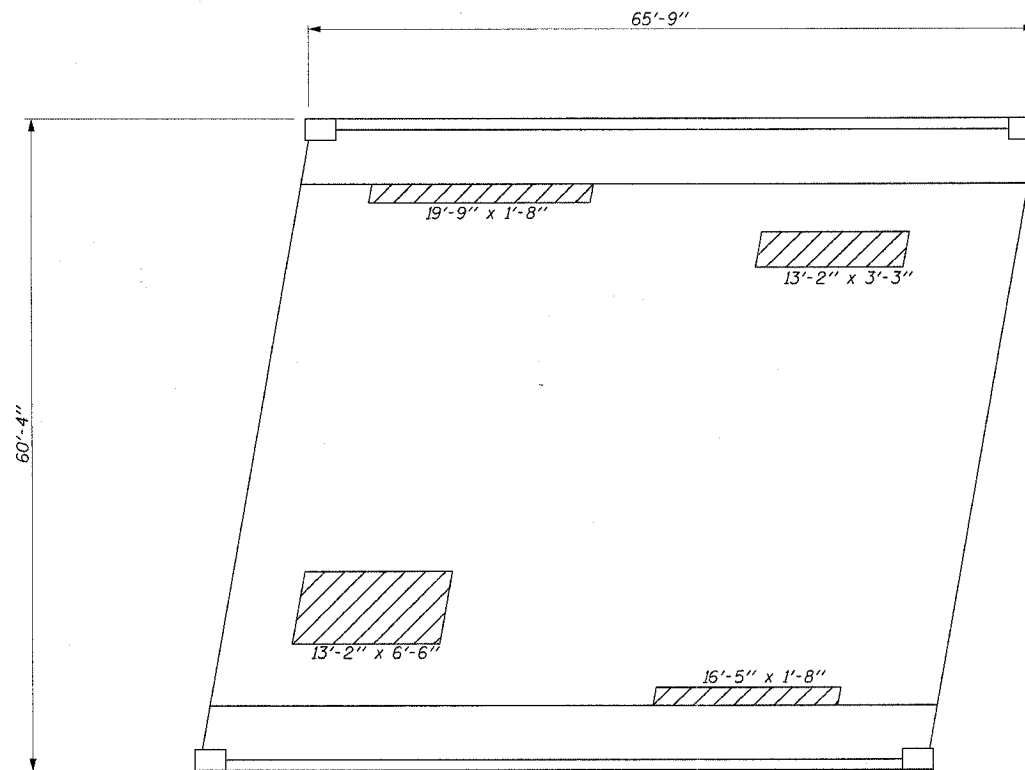
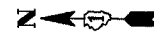
**REVISIONS**

NAME	DATE

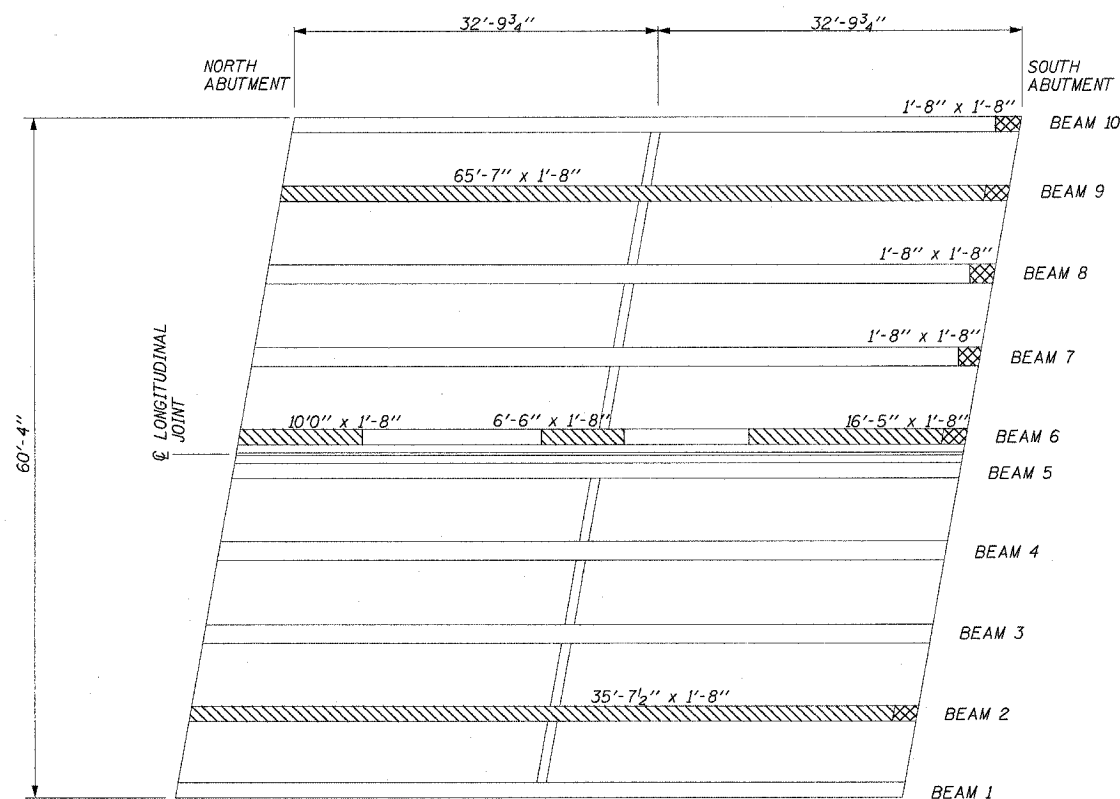
ILLINOIS DEPARTMENT OF TRANSPORTATION  
U.S. ROUTE 12 BRIDGE  
OVER NORTH BRANCH NIPPERSINK CREEK  
INTEGRAL ABUTMENT (DETAILS)  
S.N. 056-0017  
SCALE: NONE  
DATE: APRIL, 2004  
DRAWN BY: MVT  
CHECKED BY: RSS

REF-  
REF-  
REF-

DISTRICT ONE - DESIGN PLAN PREPARATION ENGINEER JOHN FORTMANN / RUSS SINHA (847) 705-4209 / ATTENTION MARK V. TINIAKOS (847) 705-4266



TOP DECK REPAIR AREAS



TEE BEAM SPALLING AREAS  
(UNDER SIDE OF DECK)

SHEET 57 OF 510

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	**	MCHEMRY	98	68
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
** 111 RS-5 & 116 B-1 <b>CONTRACT NO. 60A91</b>				

**NOTES:**

EXACT REPAIR LOCATIONS ARE TO BE DETERMINED BY THE ENGINEER DURING CONSTRUCTION.

THE ENGINEER SHALL MARK THE LOCATIONS OF THE ACTUAL REPAIRS ON THE AS-BUILT PLANS.

**BILL OF MATERIALS**

ITEM	UNIT	QUANTITY
DECK SLAB REPAIR (PARTIAL DEPTH)	SQ. YD.	21
STRUCTURAL REPAIR OF CONCRETE ≤ 5 INCHES	SQ. FT.	246.5

DATE OF LAST REPAIR SURVEY, FEBRUARY, 2007

**LEGEND**

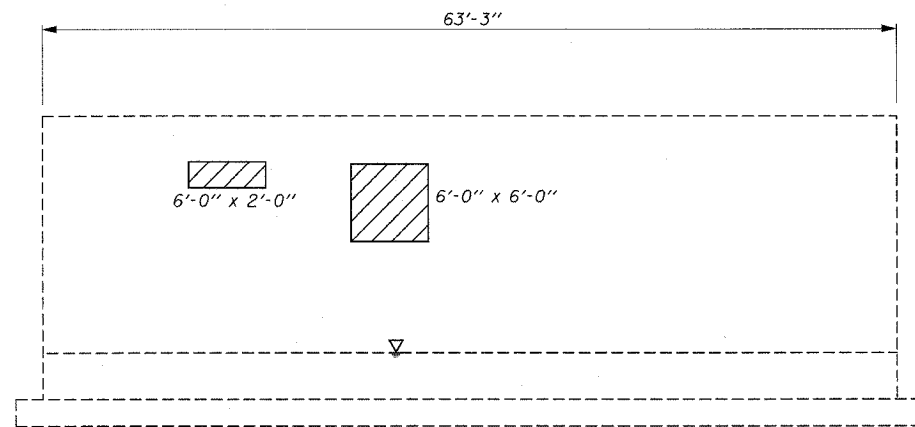
- \* TEE BEAM SPALLING (STRUCTURAL REPAIR OF CONCRETE ≤ 5 INCHES)
- DECK REPAIR (PARTIAL DEPTH)
- \*\* BEAM, END REPAIR AREAS

\* REPAIR SHALL BE PERFORMED FOR EACH STAGE OF CONSTRUCTION AFTER CONCRETE ENCASEMENT BEAM ENDS ARE PLACED AND CURED.

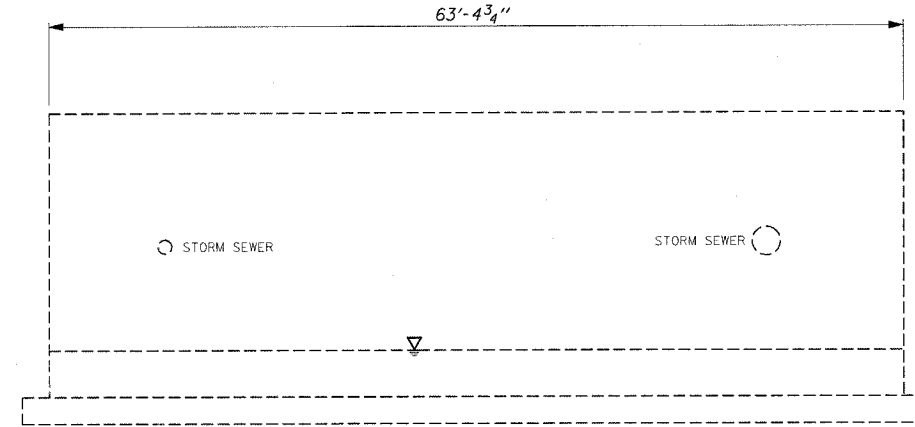
\*\* THESE AREAS ARE NOT INCLUDED IN FORMED CONCRETE REPAIR PAY ITEM BUT ARE INCLUDED IN CONCRETE SUPERSTRUCTURE PAY ITEM.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION U.S. ROUTE 12 BRIDGE OVER NORTH BRANCH NIPPERSINK CREEK PATCHING PLAN - DECK, AND TEE BEAMS
NAME	DATE	
		SCALE: NONE S.N. 056-0017 DRAWN BY: MVT
		DATE: APRIL, 2004 CHECKED BY: RSS

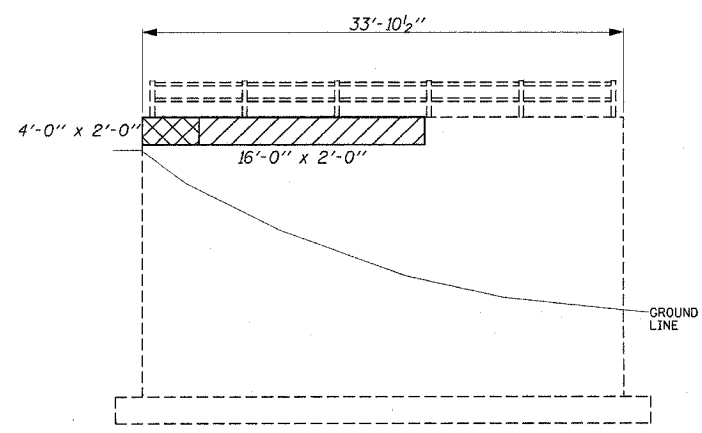
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	**	McHENRY	58	63
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
** 111 RS-5 & 116 B-1		CONTRACT NO. 60A91		



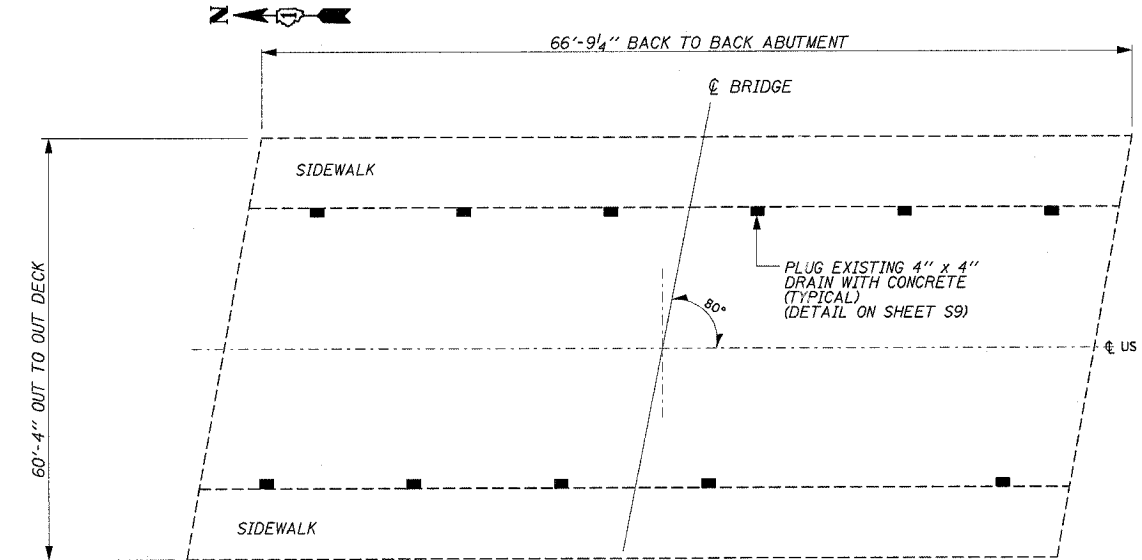
NORTH ABUTMENT REPAIRS



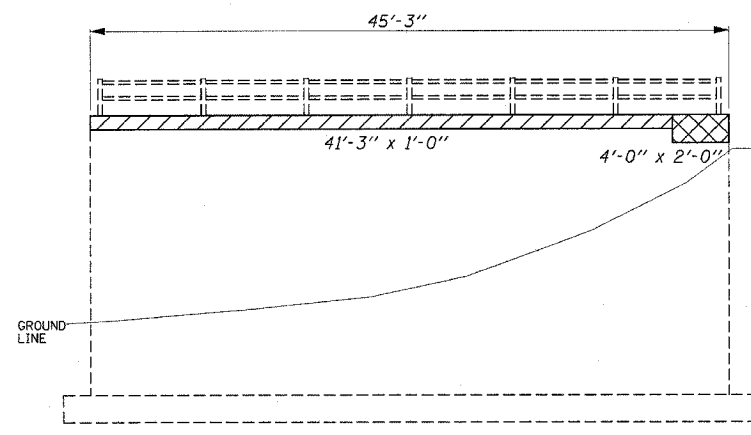
SOUTH ABUTMENT



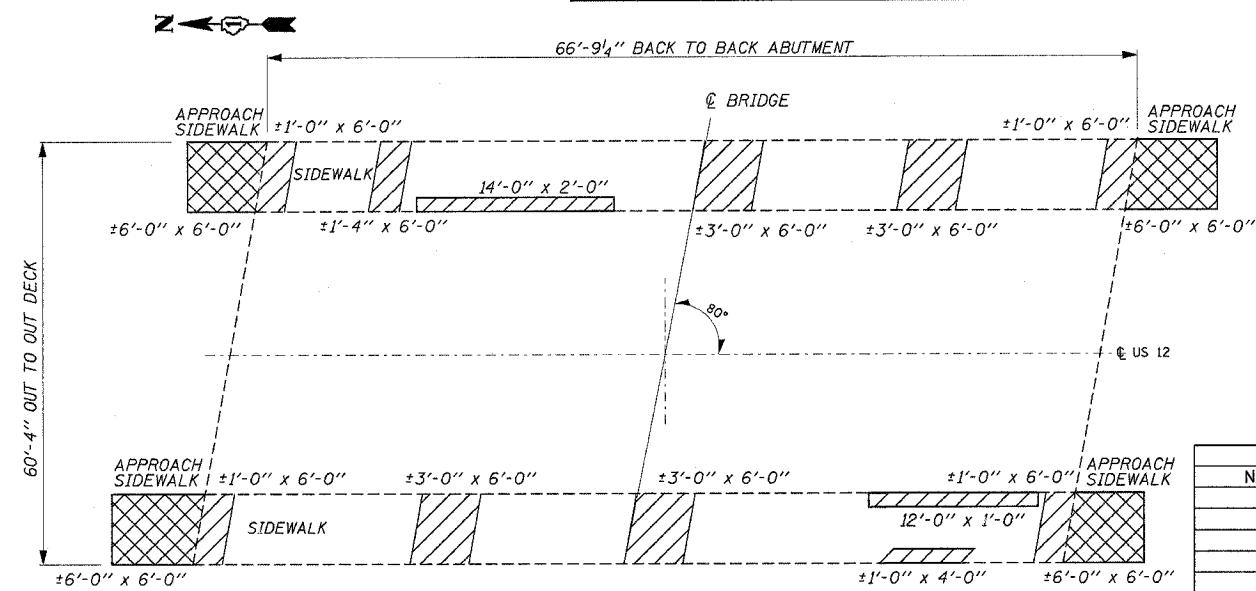
NORTHWEST WINGWALL REPAIRS



DRAIN CLOSURES AND REPLACEMENTS



SOUTHWEST WINGWALL REPAIRS



SIDEWALK REPAIRS

BILL OF MATERIALS

ITEM	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE < 5 INCHES	SQ. FT.	245
STRUCTURAL REPAIR OF CONCRETE > 5 INCHES	SQ. FT.	160
PLUG EXISTING DECK DRAINS	EACH	11

DATE OF SURVEY, FEBRUARY, 2007

LEGEND

- STRUCTURAL REPAIR OF CONCRETE ≤ 5 INCHES
- STRUCTURAL REPAIR OF CONCRETE > 5 INCHES

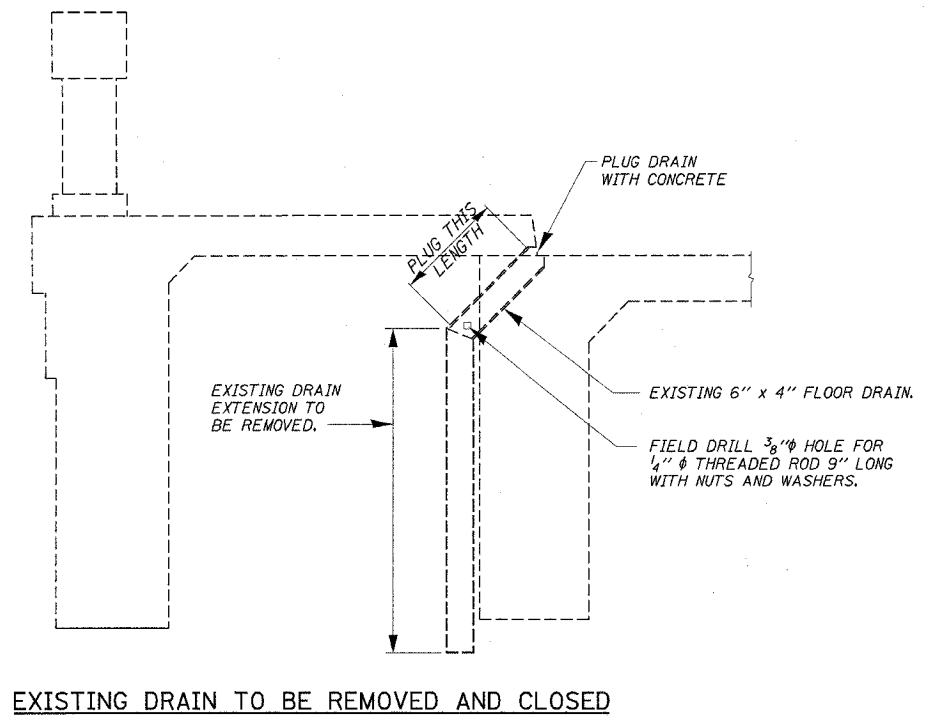
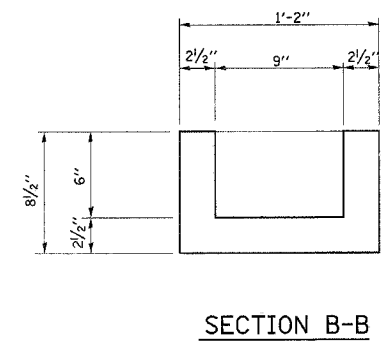
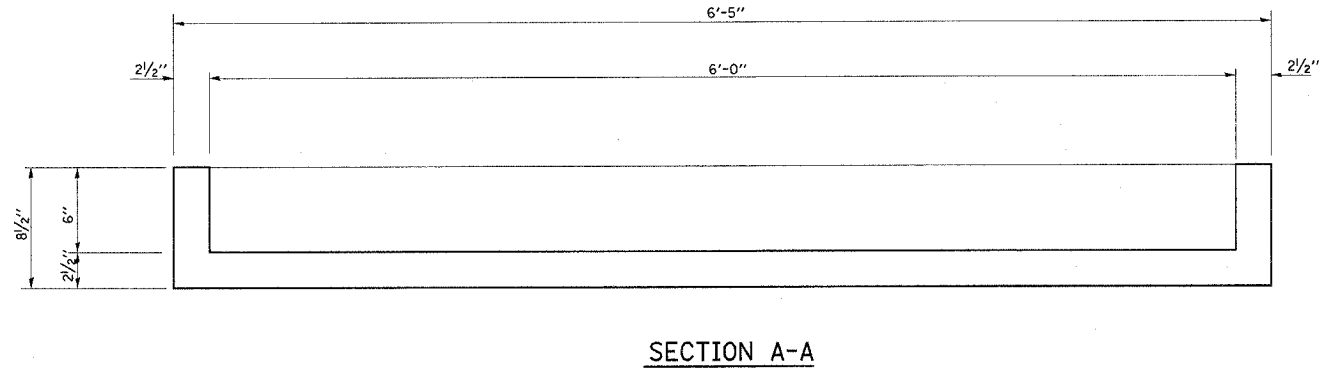
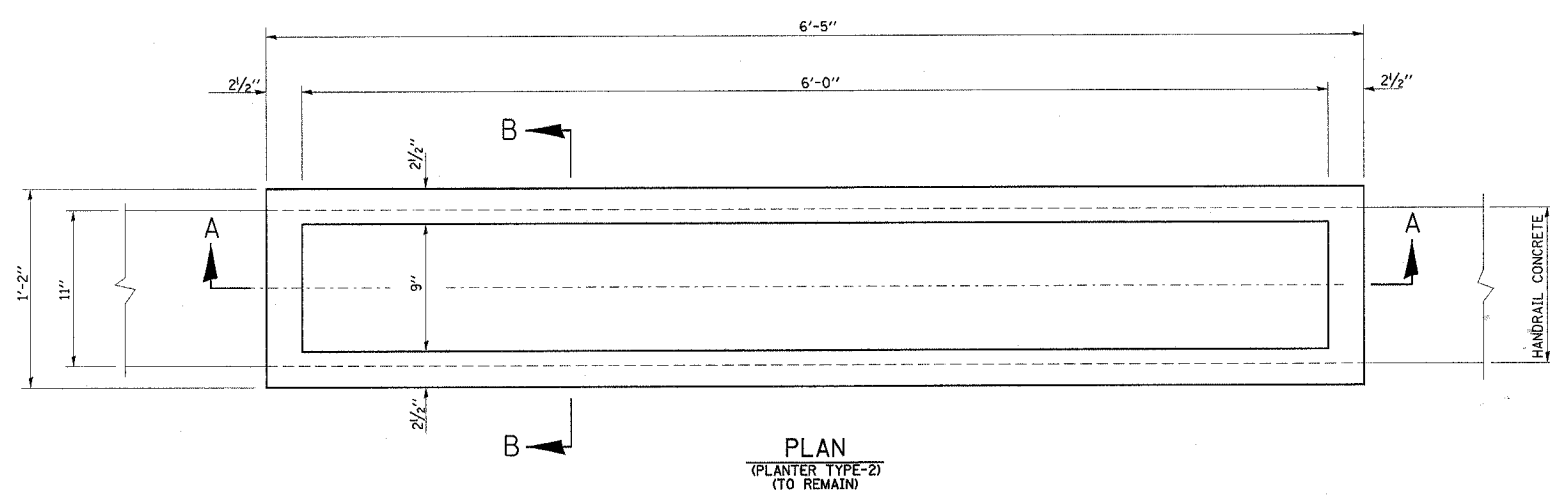
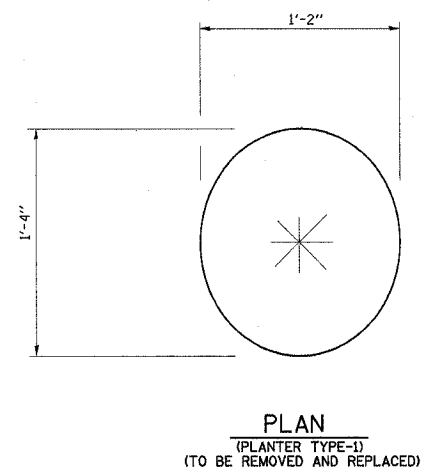
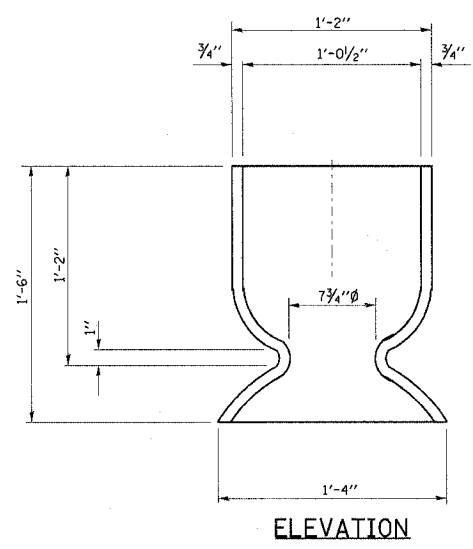
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 U.S. ROUTE 12 BRIDGE  
 OVER NORTH BRANCH NIPPERSINK CREEK  
 ABUTMENTS, WINGWALLS AND SIDEWALKS  
 REPAIRS  
 SCALE: NONE S.N. 056-0017 DRAWN BY: MVT  
 DATE: APRIL, 2004 CHECKED BY: RSS

5/10/2007  
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 DISTRICT ONE - DESIGN  
 PLAN PREPARATION ENGINEER JOHN FORTMANN / RUSS SINHA (847) 705-4209 / ATTENTION MARK V. TINIAKOS (847) 705-4266

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	**	MCHENRY	98	70
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
** 111 RS-5 & 116 B-1		CONTRACT NO. 60A91		

SHEET S9 OF S10



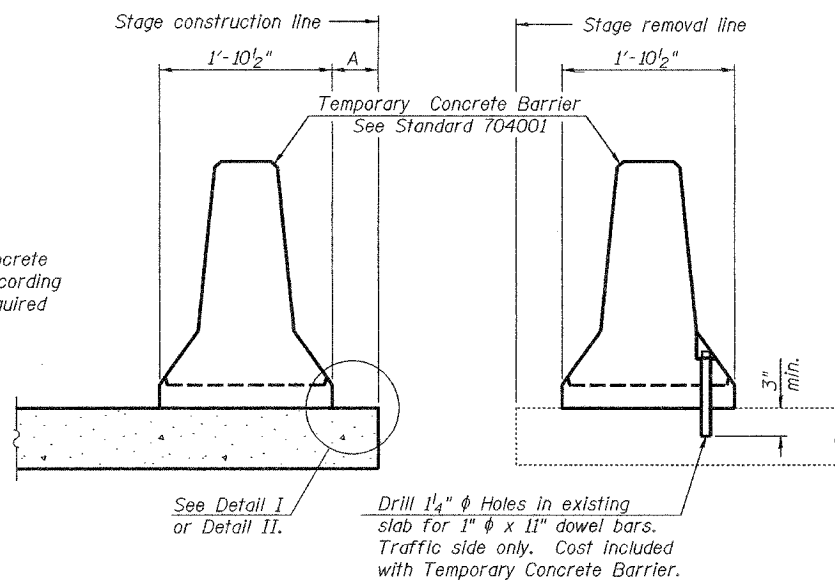
5/10/2007  
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 DISTRICT ONE - DESIGN  
 PLAN PREPARATION ENGINEER JOHN FORTMANN / RUSS SINHA (847) 705-4209 / ATTENTION MARK V. TINIAKOS (847) 705-4266

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION U.S. ROUTE 12 BRIDGE OVER NORTH BRANCH NIPPERSINK CREEK PLANTER DETAILS S.N. 056-0017
NAME	DATE	
		SCALE: NONE DATE: APRIL, 2004
		DRAWN BY: MVT CHECKED BY: RSS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	**	McHenry	98	71
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	NON-FED. AID PROJECT	

\*\*111 RS-5 & 116 B-1

When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



NEW SLAB

EXISTING SLAB

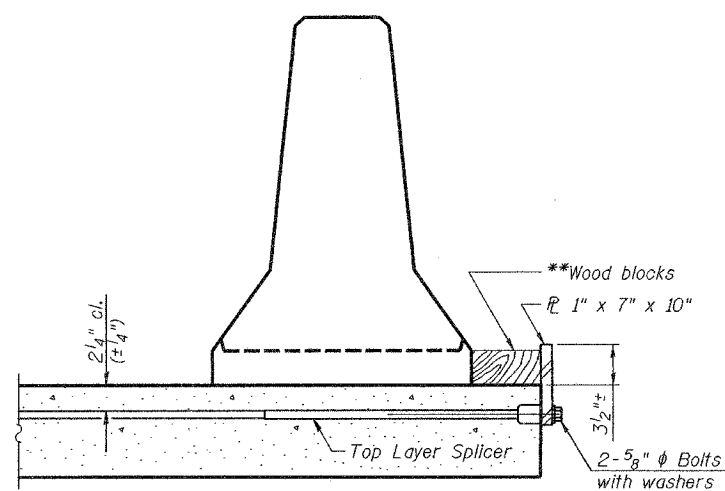
SECTIONS THRU SLAB

NOTES

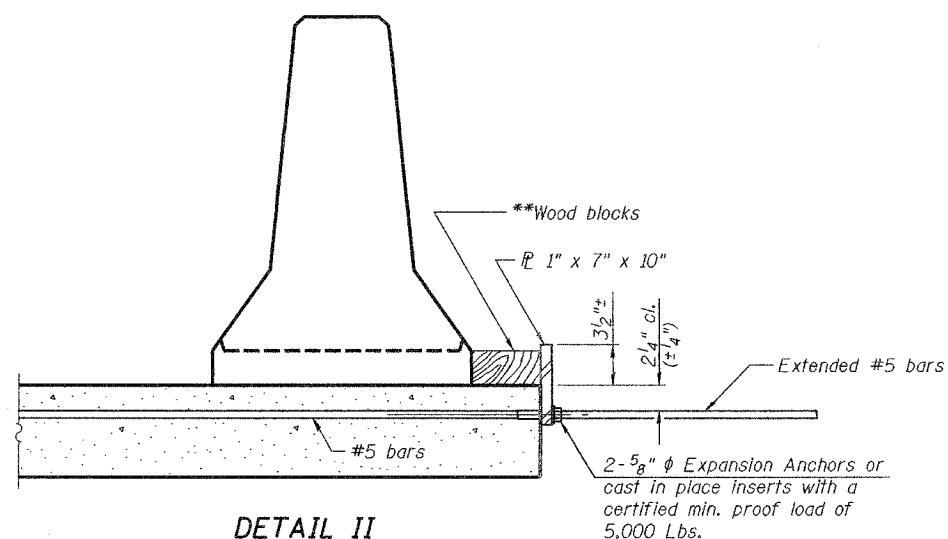
**Detail I - With Bar Splicer or Couplers:**  
Connect one (1) 1"x7"x10" steel  $\bar{P}$  to the top layer of couplers with 2- $\frac{5}{8}$ "  $\phi$  bolts screwed to coupler at approximate  $\bar{C}$  of each barrier panel.

**Detail II - With Extended Reinforcement Bars:**  
Connect one (1) 1"x7"x10" steel  $\bar{P}$  to the concrete slab with 2- $\frac{5}{8}$ "  $\phi$  Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate  $\bar{C}$  of each barrier panel.

Cost of anchorage is included with Temporary Concrete Barrier.  
The 1" x 7" x 10" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

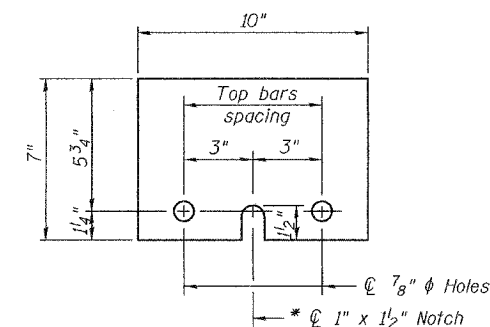


DETAIL I



DETAIL II

\*\* Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.



STEEL RETAINER  $\bar{P}$  1" x 7" x 10"

\* Required only with Detail II

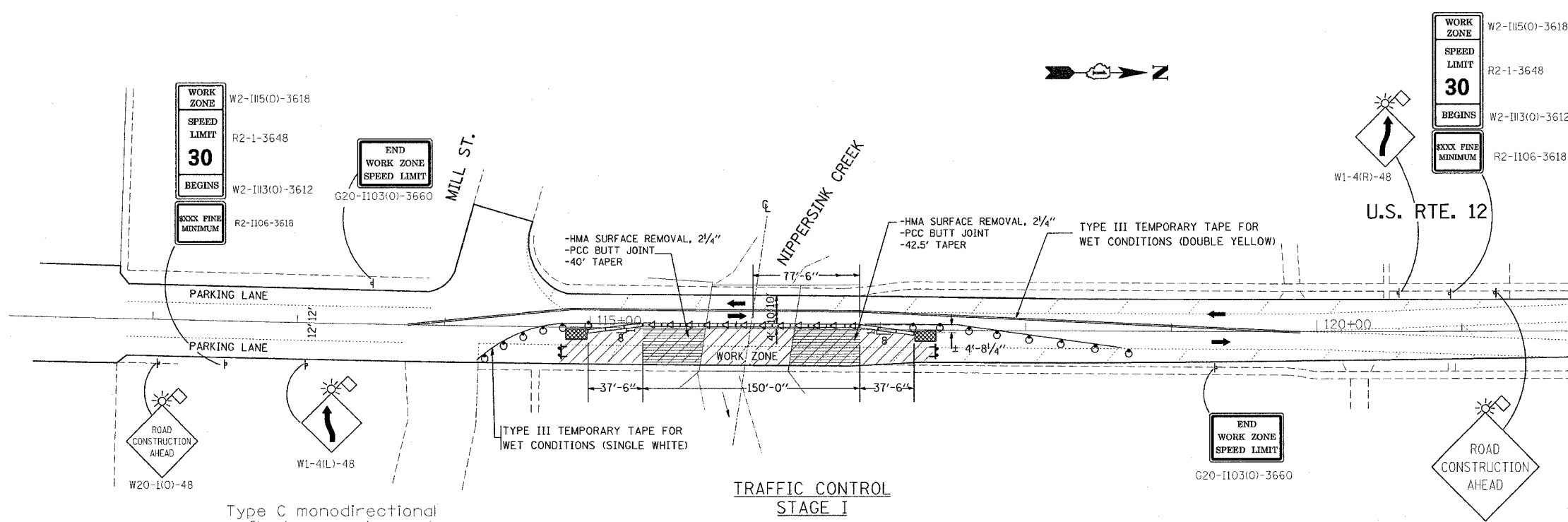
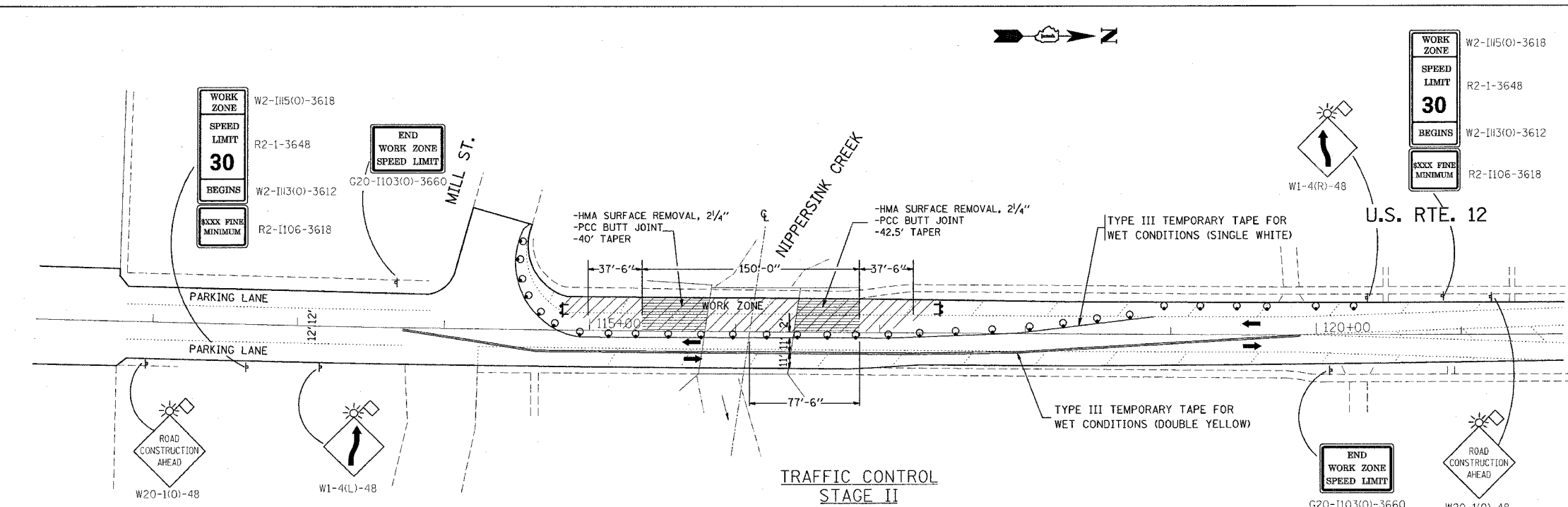
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		U.S. ROUTE 12 BRIDGE OVER NORTH BRANCH NIPPERSINK CREEK TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION S.N. 056-0017  SCALE: NONE DATE: APRIL 2007
		DRAWN BY: MVT
		CHECKED BY: RSS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	**	MCHENRY	98	72
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

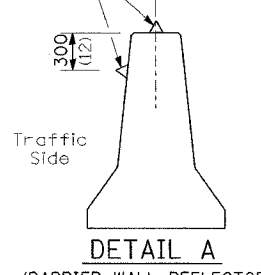
\*\* 111 RS-5 & 116 B-I

**NOTE:**  
COVER EXISTING CONFLICTING PAVEMENT MARKINGS WITH BLACK TYPE III TAPE. THE COST AND ITS REMOVAL IS INCLUDED IN THE COST OF "TRAFFIC CONTROL AND PROTECTION (SPECIAL)"

SIDEWALK CLOSURE AT EACH CONSTRUCTION STAGE PER STANDARD 701801 WHICH COST SHALL BE INCLUDED IN THE COST OF "TRAFFIC CONTROL AND PROTECTION (SPECIAL)"



Type C monodirectional reflectors on tangent portion of barrier at 15 m (50') cts.



- LEGEND**
- Sign
  - Type C Monodirectional reflector
  - Impact attenuator
  - Type III Barricade
  - HMA Surface Removal (Variable Depth)

- Drums with steady burn monodirectional light
- 50' C-C TANGENTS
- 25' C-C LANE SHIFTS & TAPERS
- 10' C-C RADII (TYP)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**TRAFFIC CONTROL  
NIPPERSINK BRIDGE**

SCALE: VERT. \_\_\_\_\_  
HORIZ. \_\_\_\_\_

DATE \_\_\_\_\_

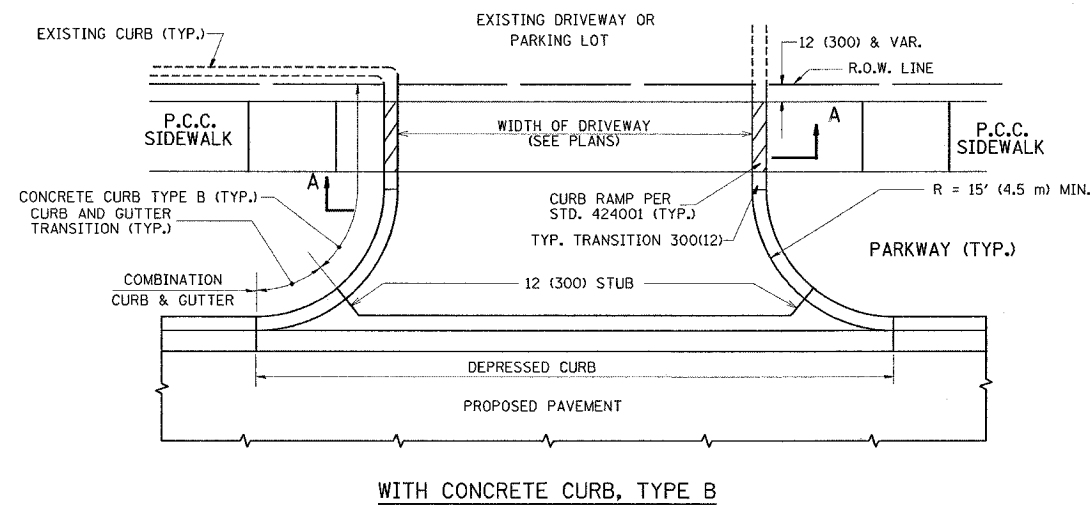
DRAWN BY \_\_\_\_\_  
CHECKED BY \_\_\_\_\_

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 USER NAME = mjdjls

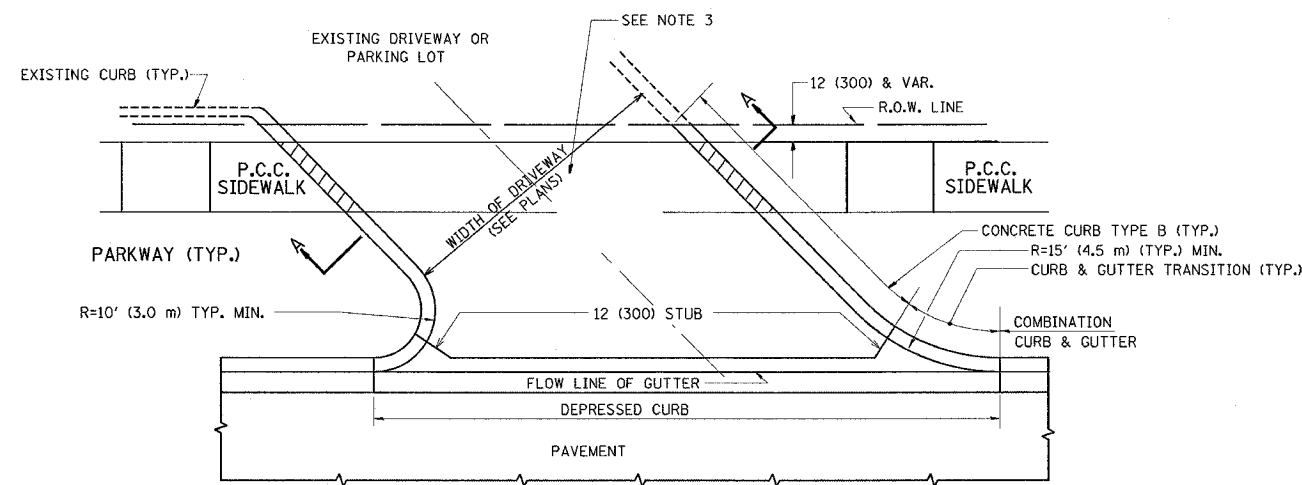


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	**	McHENRY	38	73
STA.		TO STA.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

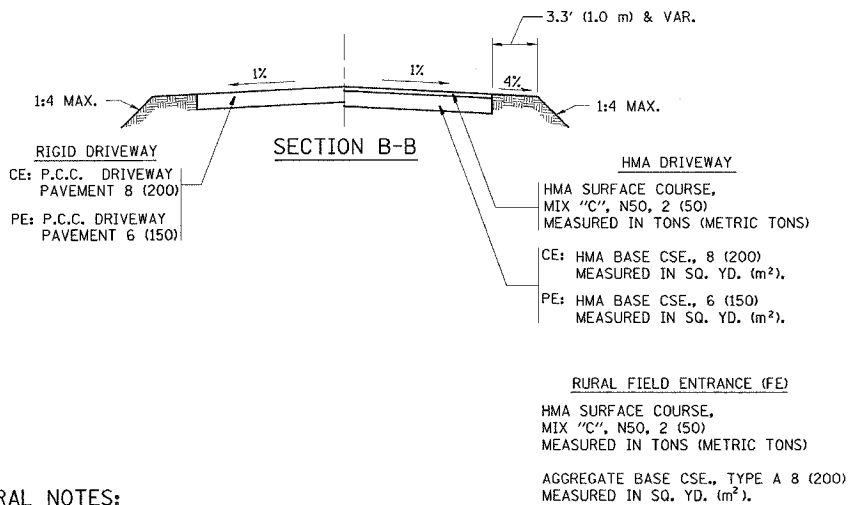
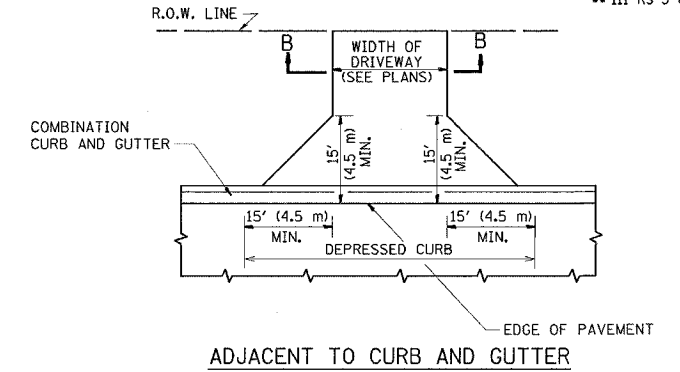
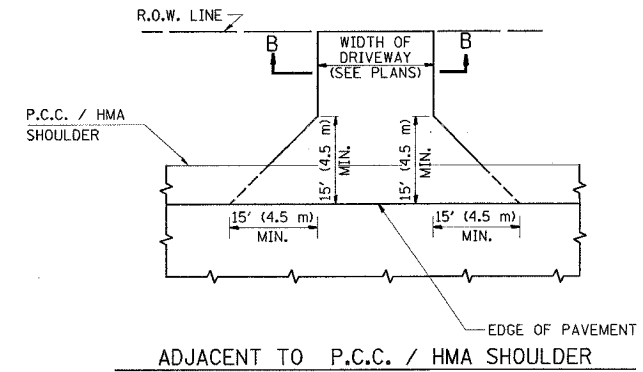
\*\* 111 RS-5 & 116 B-I



WITH CONCRETE CURB, TYPE B



WITH CONCRETE CURB, TYPE B



GENERAL NOTES:

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.

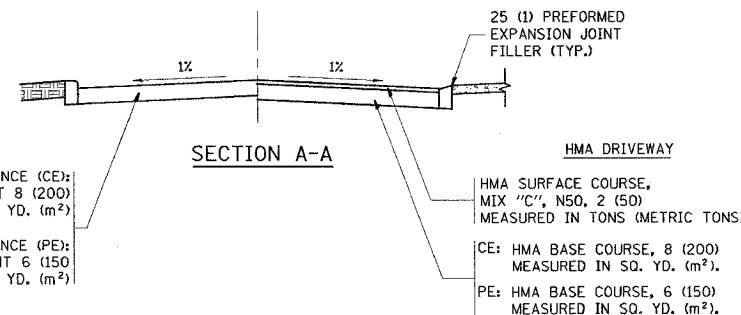
COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.



ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED

REVISIONS	
NAME	DATE
R. SHAH	11-04-95
J. POLLASTRINI	08-12-96
J. POLLASTRINI	12-14-96
A. ABBAS	03-21-97
T. HOLTZ	04-08-97
M. GOMEZ	04-06-01
P. LAFLEUR	04-15-03
R. BORO	01-01-07

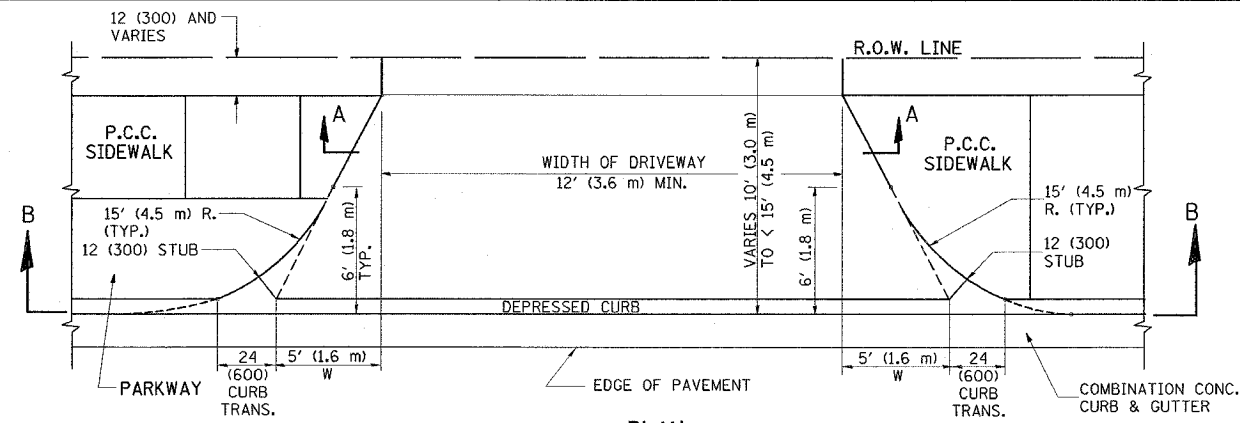
ILLINOIS DEPARTMENT OF TRANSPORTATION  
DRIVEWAY DETAILS  
DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m)

SCALE: VERT. NONE  
HORIZ.

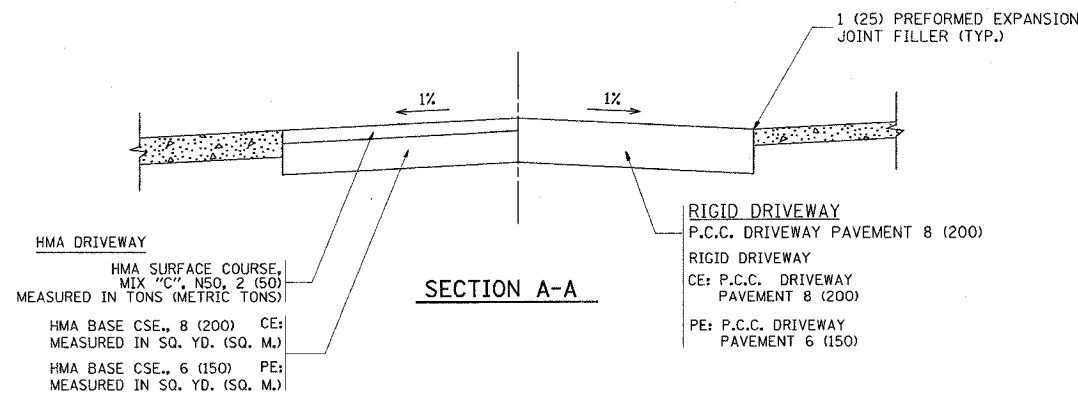
DRAWN BY  
CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	**	McHENRY	98	74
STA.		TO STA.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

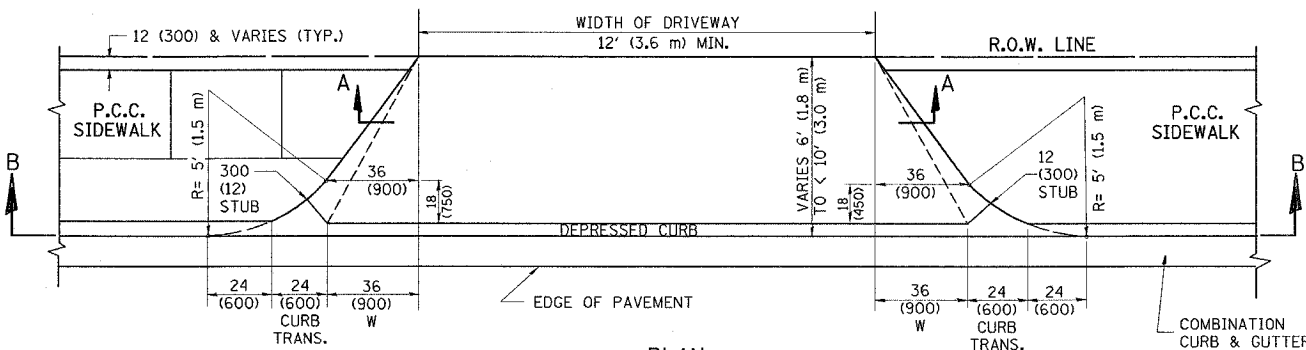
•• 111 RS-5 & 116 B-1



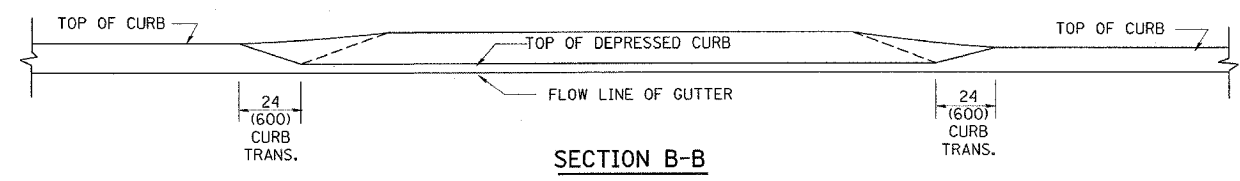
PLAN  
10' (3.0 m) TO < 15' (4.5 m)



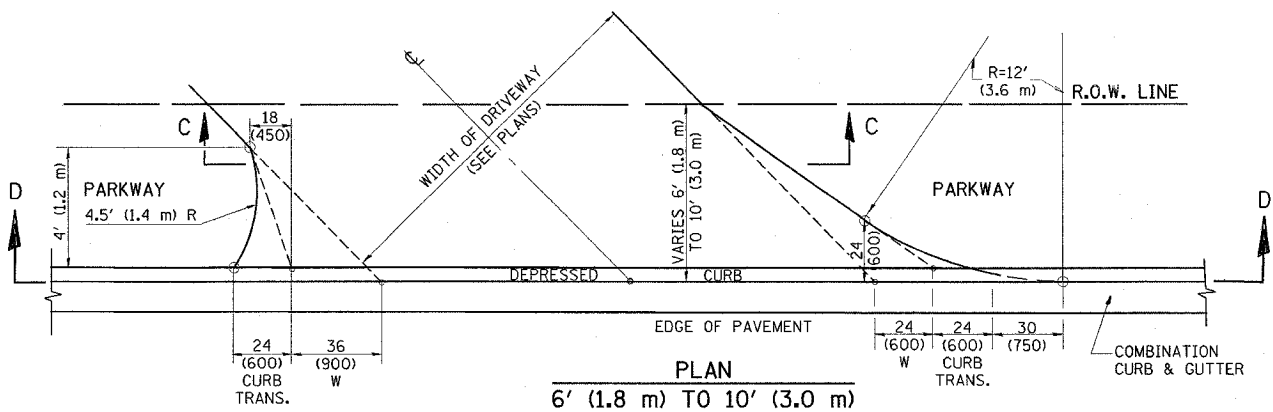
SECTION A-A



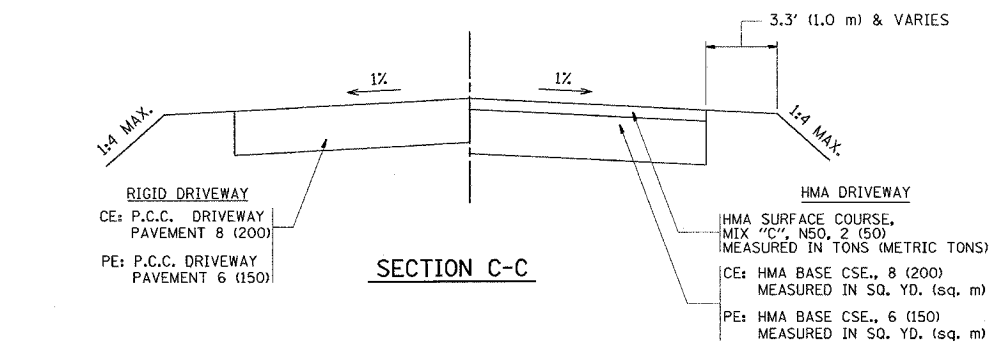
PLAN  
6' (1.8 m) TO < 10' (3.0 m)



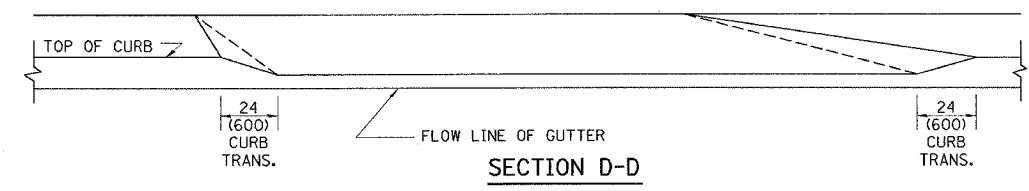
SECTION B-B



PLAN  
6' (1.8 m) TO 10' (3.0 m)



SECTION C-C



SECTION D-D

GENERAL NOTES

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATION 10 IN THE PERMIT HANDBOOK. WHERE SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED WITH RIGID PAVEMENT. WHERE NO SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED IN KIND. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

WHEN THE DISTANCE BETWEEN R.O.W. AND THE BACK OF CURB IS EQUAL TO OR LESS THAN 8' (2.4 m), THE P.C.C. SIDEWALK SHALL EXTEND TO THE BACK OF CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

THE 1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

"W" VARIES FROM 36 (900) TO 5' (1.5 m) PROPORTIONAL TO THE LENGTH (L), FROM 6' (1.8 m) TO 10' (3 m).

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED.

REVISIONS	
NAME	DATE
R. SHAH	11/06/95
J. POLLASTRINI	08/12/96
J. POLLASTRINI	12/14/96
A. ABBAS	03/21/97
T. HOLTZ	04/08/97
M. GOMEZ	04/06/01
P. LOFLEUR	04/15/03
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

DRIVEWAY DETAILS  
DISTANCE BETWEEN ROW AND FACE OF CURB < 15' (4.5 m)

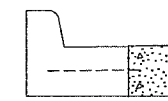
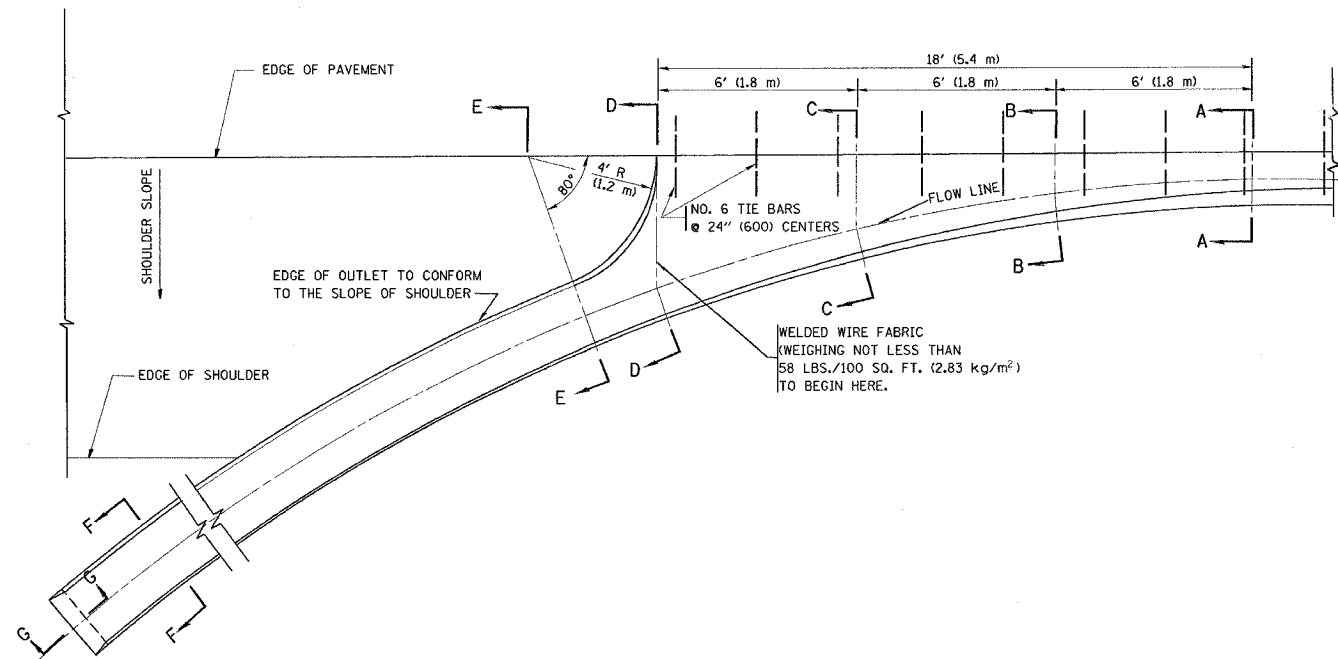
SCALE: VERT. NONE  
HORIZ.

DRAWN BY  
CHECKED BY

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USER = amg/pj

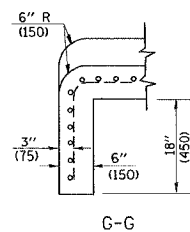
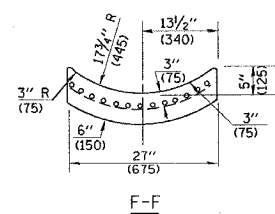
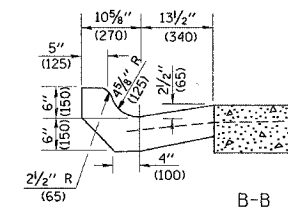
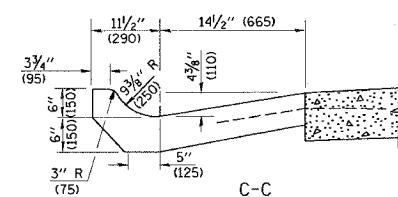
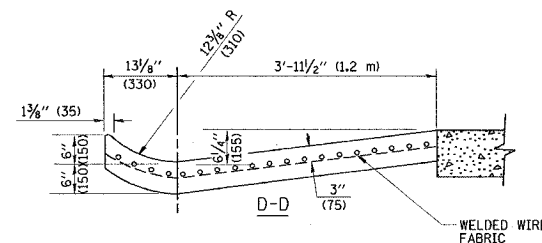
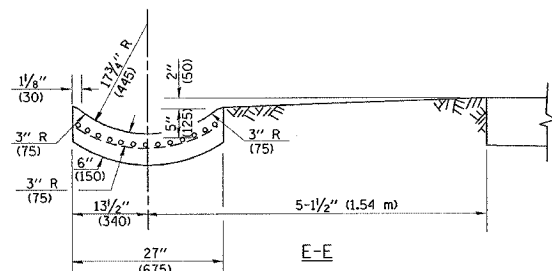
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	**	MCHENRY	98	75
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

\*\* 111 RS-5 & 116 B-1



A-A \*

\* DIMENSIONS OF THE CURB & GUTTER AT SECTION A-A ARE SHOWN ON STATE STANDARD 606001. FOR DETAILS OF OUTLET FOR CONCRETE CURB & GUTTER, TYPE B-6.24 (B-15.60) SEE STATE STANDARD 606006.



**GENERAL NOTES**

GUTTER OUTLET SHALL BE TIED TO THE PAVEMENT IN ACCORDANCE WITH DETAILS FOR LONGITUDINAL CONSTRUCTION JOINT SHOWN ON STANDARD 420001.

TIE BARS SHALL BE NO. 20 (NO.6) AT 24" (600) CENTERS UNLESS OTHERWISE SHOWN.

IF THE AVERAGE GRADE OF PAVEMENT FOR THE DISTANCE FROM SECTION A-A TO D-D EXCEEDS 2%, THIS DISTANCE SHALL BE INCREASED 6' (1.8 m) FOR EACH 1% INCREASE IN GRADE.

**QUANTITIES**

FOR SECTION A-A TO E-E AND CURTAIN WALL = 1.25 CU. YDS. (0.96 m<sup>3</sup>) CLASS SI CONCRETE (OUTLET) FOR 9" (225) PAV'T. 1.27 CU. YDS. (0.96 m<sup>3</sup>) CLASS SI CONCRETE (OUTLET) FOR 10" (250) PAV'T.  
FOR SECTION F-F = 0.045 CU. YDS. (0.03 m<sup>3</sup>) CLASS SI CONCRETE PER FT. (m).

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

REVISIONS	
NAME	DATE
M. DE YONG	8/4/86
R. SHAH	09/09/94
R. SHAH	10/25/94
E. GOMEZ	12/21/00

ILLINOIS DEPARTMENT OF TRANSPORTATION

**OUTLET FOR CONCRETE CURB AND GUTTER**

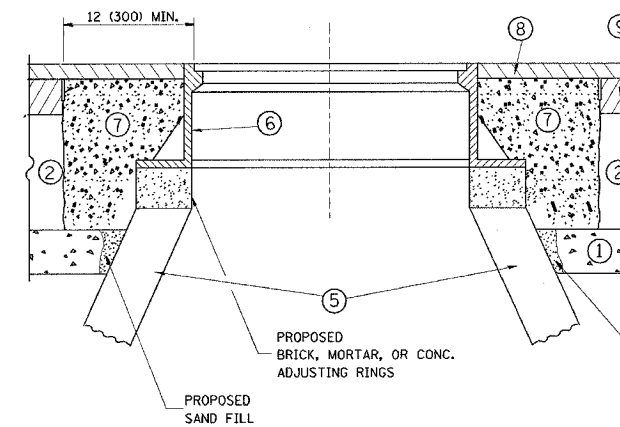
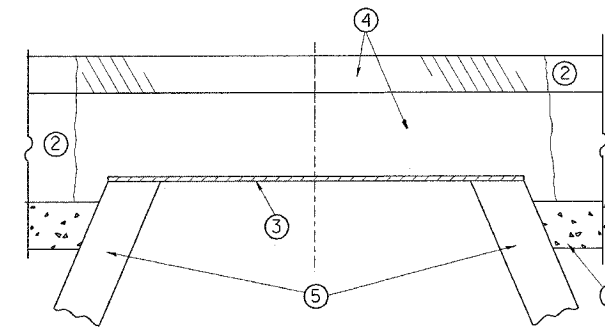
SCALE: VERT. NONE  
HORIZ.

DRAWN BY

CHECKED BY

BD600-01 (BD-03)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	**	MCHENRY	98	76
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



**CONSTRUCTION PROCEDURES**

**STAGE 1 (BEFORE PAVEMENT MILLING)**

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1 1/2 (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

**STAGE 2 (AFTER PAVEMENT MILLING)**

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS SI CONCRETE, OR HMA SURFACE COURSE OR HMA BINDER COURSE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS.

**LEGEND**

- ① SUB-BASE GRANULAR MATERIAL
- ② EXISTING PAVEMENT
- ③ 36 (900) DIAMETER METAL PLATE
- ④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- ⑤ EXISTING STRUCTURE
- ⑥ FRAME AND LID (SEE NOTES)
- ⑦ CLASS SI CONCRETE, HMA SURFACE COURSE OR HMA BINDER COURSE
- ⑧ PROPOSED HMA SURFACE COURSE
- ⑨ PROPOSED HMA BINDER COURSE

**NOTES:**

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

**LOCATION OF STRUCTURES:**

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

**BASIS OF PAYMENT:** THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR "FRAMES AND LIDS TO BE ADJUSTED, SPECIAL"

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

**DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING**

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

REVISIONS	
NAME	DATE
R. SHAH	10/25/94
R. SHAH	01/30/95
R. SHAH	03/10/95
A. ABBAS	03/21/97
R. WIEDEMAN	05/14/04
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING**

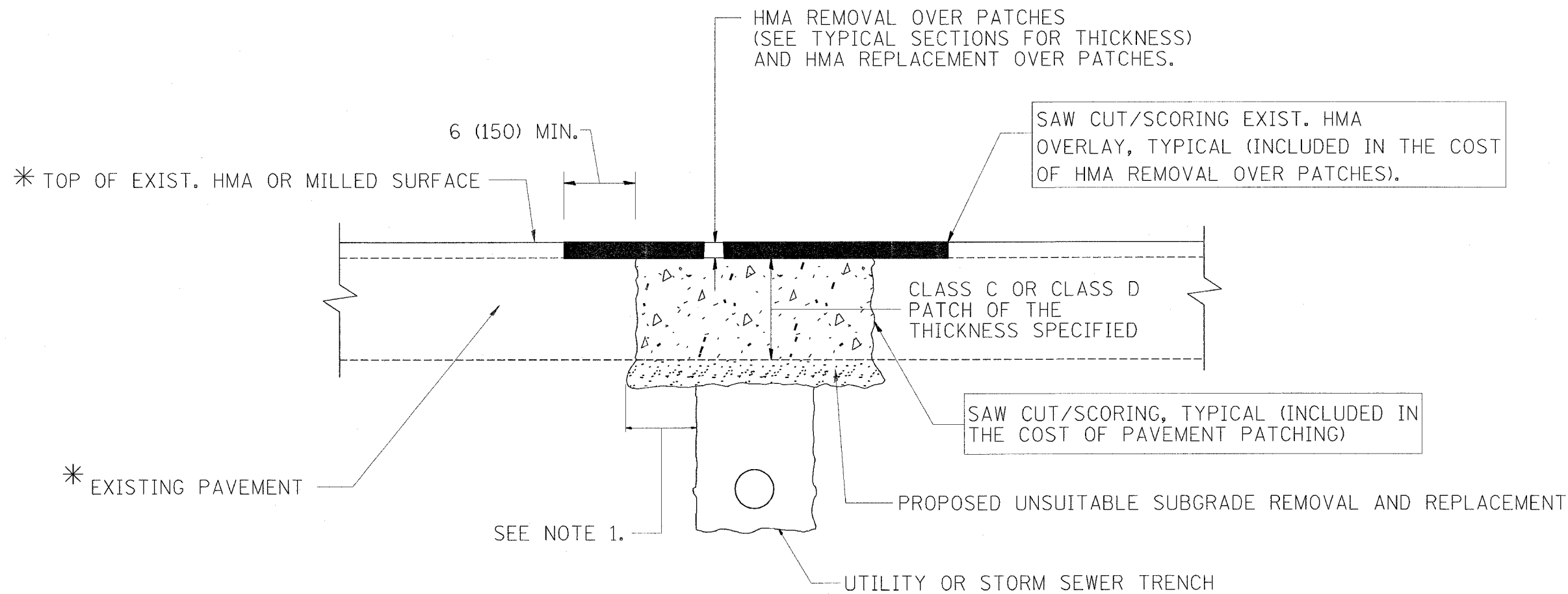
SCALE: VERT. NONE  
HORIZ.

DRAWN BY  
CHECKED BY

BD600-03 (BD-8)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	**	McHENRY	98	77
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

\*\* 111 RS-5 & 116 B-I



\* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE FULL DEPTH PATCHES
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

REVISIONS	
NAME	DATE
R. SHAH	10/25/94
R. SHAH	01/14/95
R. SHAH	03/23/95
R. SHAH	04/24/95
A. HOUSEH	03/15/96
A. ABBAS	03/21/97
A. ABBAS	01/20/98
ART ABBAS	04/27/98
R. BORO	01/01/07

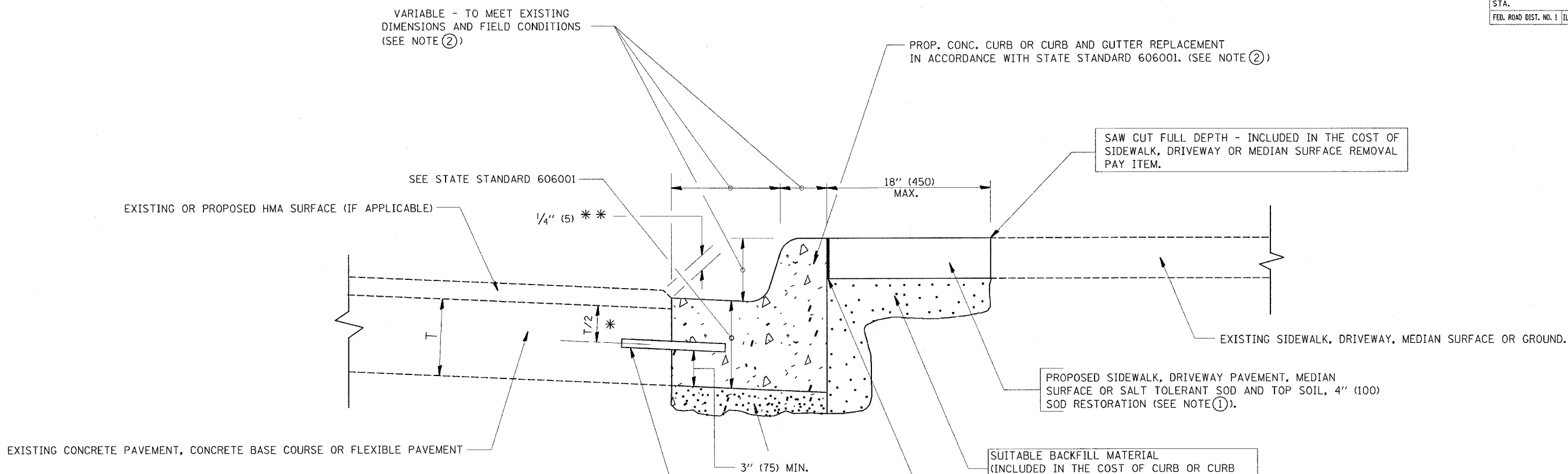
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PAVEMENT PATCHING FOR  
 HMA SURFACED  
 PAVEMENT**

SCALE: VERT. NONE  
 HORIZ.

DRAWN BY  
 CHECKED BY

BD400-04 (BD-22)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	**	MCHENRY	98	78
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



- \* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.
- \*\* IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

NOTE: ① SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.

SALT TOLERANT SOD AND TOP SOIL, 4" (100) RESTORATION WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

- ② CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.
- ③ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.
- ④ LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.
- ⑤ THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.
- ⑥ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.
- ⑦ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE.

REMOVAL AND REPLACEMENT 4" (100) OR LESS IS INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

REMOVAL AND REPLACEMENT IN EXCESS OF 4" (100) WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT 24" (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USUABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE ③).

**BASIS OF PAYMENT:**  
THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT (METER) FOR "CURB REMOVAL AND REPLACEMENT" OR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

REVISIONS	
NAME	DATE
A. HOUSEH	03/11/94
R. SHAH	02/24/95
R. SHAH	03/02/95
R. SHAH	08/19/96
R. SHAH	09/12/96
R. SHAH	09/19/96
R. SHAH	10/03/96
A. ABBAS	03/21/97
M. GOMEZ	01/22/01
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
  
CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

SCALE: VERT. NONE  
HORIZ.

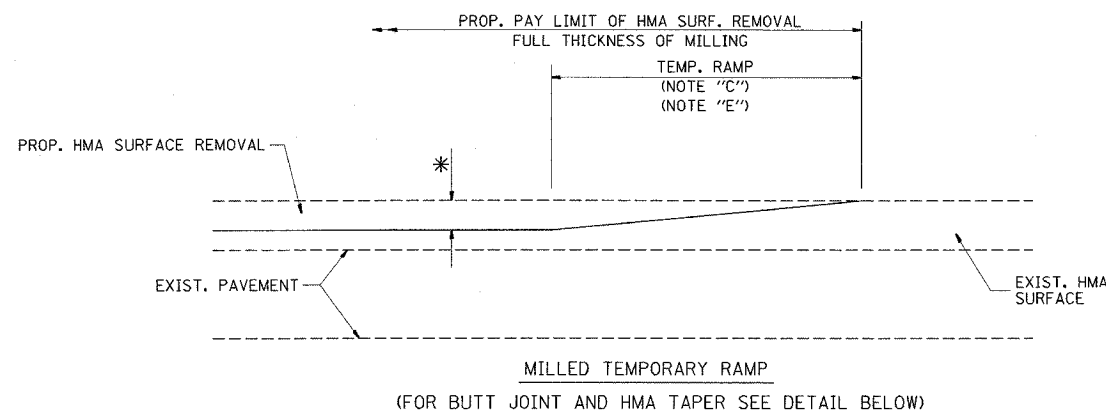
DRAWN BY  
CHECKED BY  
BD600-06 (BD-24)

# CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

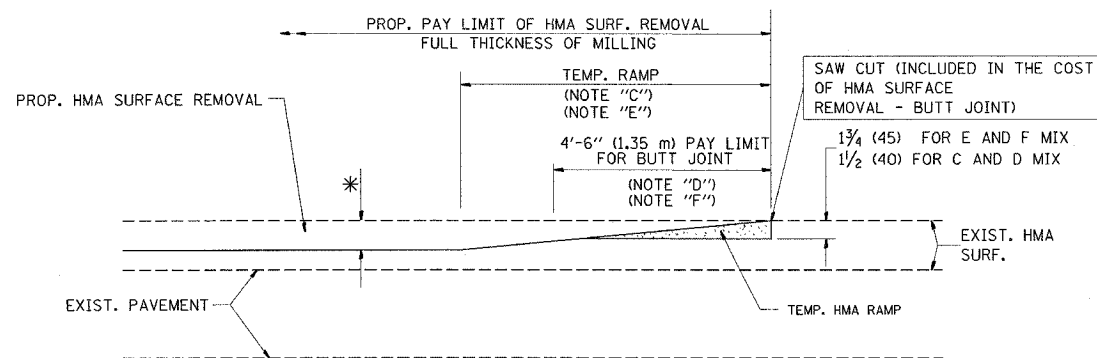
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	**	McHENRY	98	79
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

\*\* 111 RS-5 & 116 B-1

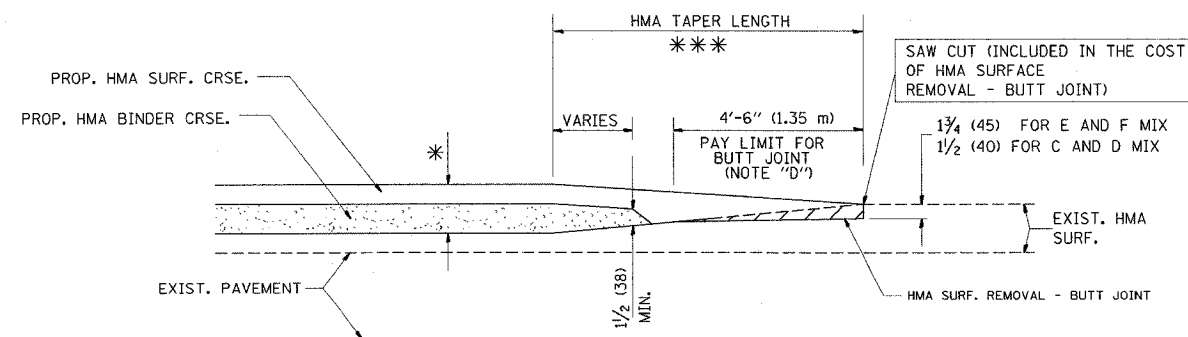


OPTION 1



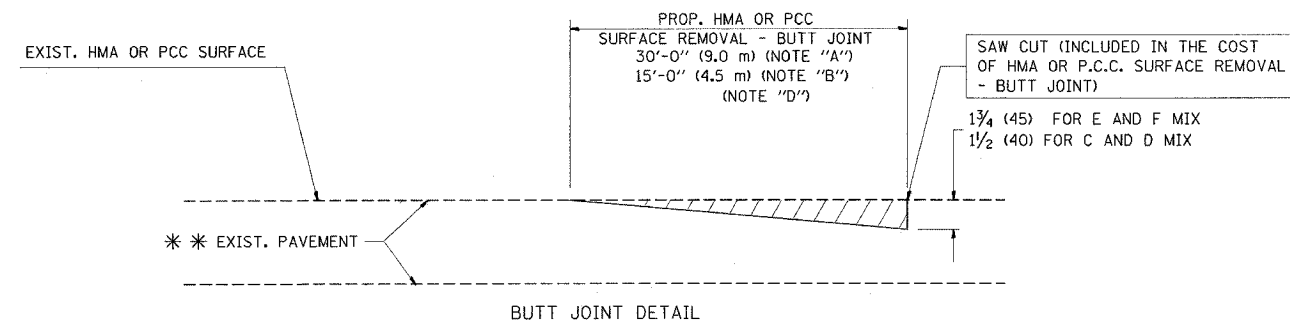
OPTION 2

TYPICAL TEMPORARY RAMP

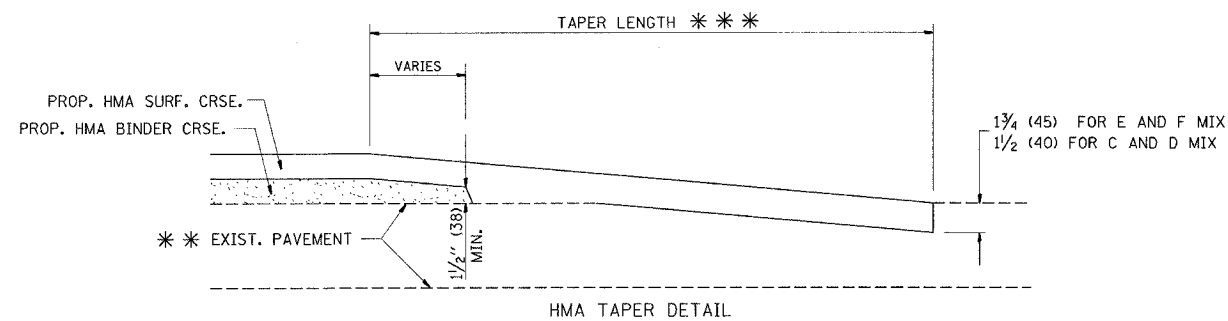


BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

\*\*\* PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
  - B: MINOR SIDE ROADS.
  - C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
  - D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
  - E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
  - F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
  - G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- \* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- \*\*\* 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")  
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

REVISIONS	
NAME	DATE
M. DE YONG	6-13-90
M. DE YONG	7-3-90
M. DE YONG	3-27-92
R. SHAH	09/09/94
R. SHAH	10/25/94
A. ABBAS	03/21/97
M. GOMEZ	04/06/01
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND HMA TAPER DETAILS

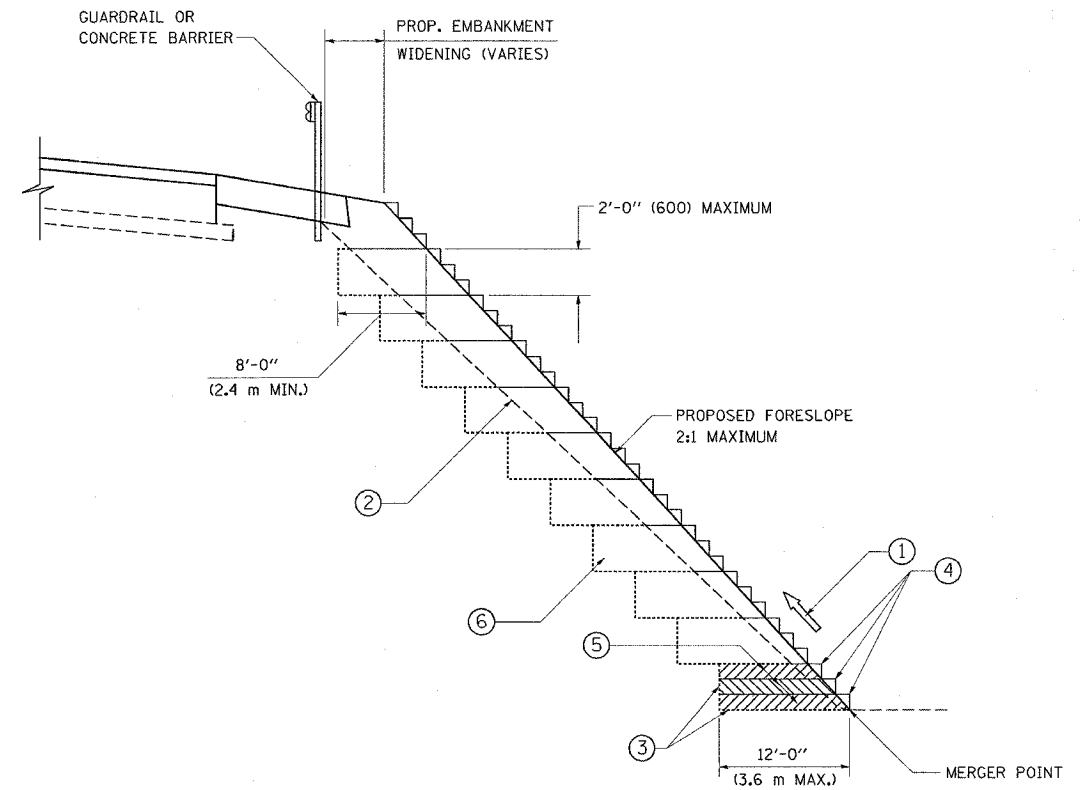
SCALE: VERT. NONE  
HORIZ.

DRAWN BY  
CHECKED BY

BD400-05 (VI-BD32)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	**	McHENRY	98	80
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

\*\* 111 RS-5 & 116 B-I



TYPICAL BENCHING DETAIL  
FOR EMBANKMENT

**NOTES:**

- ① CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- ② EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
- ③ BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- ④ TRIM TO FINAL SLOPE.
- ⑤ EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
- ⑥ EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ⑦ SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 4:1 AND THE HEIGHT IS GREATER THAN 5' (1.5 m).

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)  
UNLESS OTHERWISE SHOWN.

REVISIONS	
NAME	DATE
	06/16/04

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**BENCHING DETAIL  
FOR EMBANKMENT  
WIDENING**

SCALE: VERT. NONE  
HORIZ.

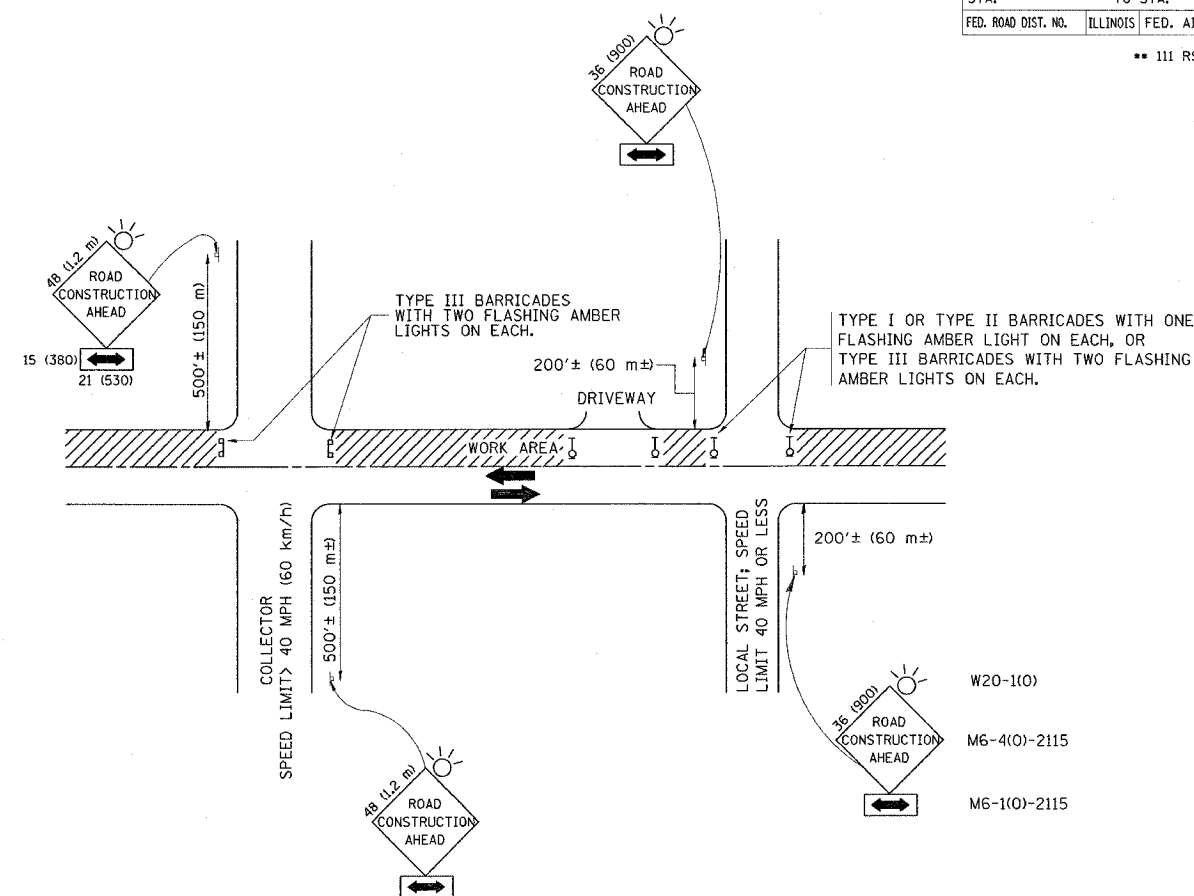
DRAWN BY: CADD  
CHECKED BY: S.E.B.

BD-51



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	**	McHENRY	98	81
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

\*\* 111 RS-5 & 116 B-1



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
  - 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
    - a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
    - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
  - 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
    - a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
    - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
  - 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:
  - USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
  - C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
  - D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in millimeters (inches) unless otherwise shown.

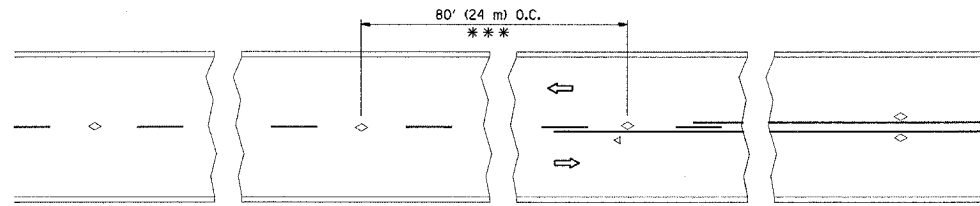
REVISIONS	
NAME	DATE
LHA	6/89
T. RAMMACHER	09/08/94
J. OBERLE	10/18/95
A. HOUSEH	03/06/96
A. HOUSEH	10/15/96
T. RAMMACHER	01/06/00

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

SCALE: NONE

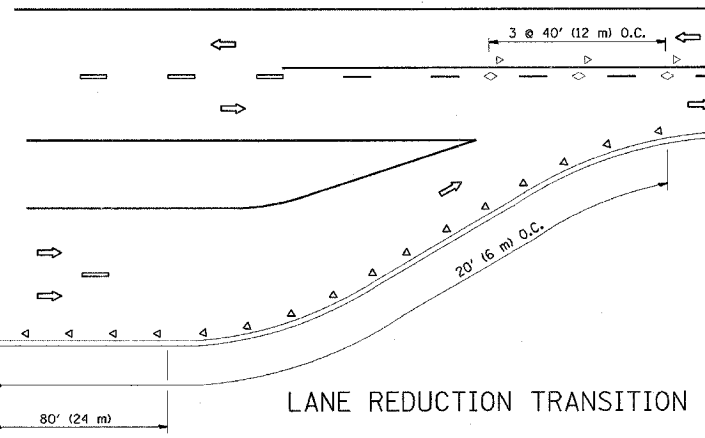
DRAWN BY  
 CHECKED BY  
 TC-10

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	**	McHENRY	98	82
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

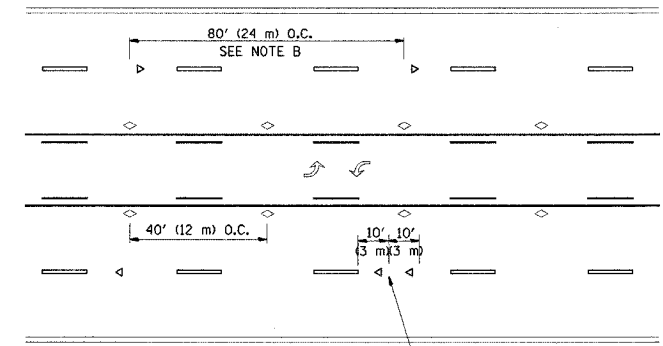


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

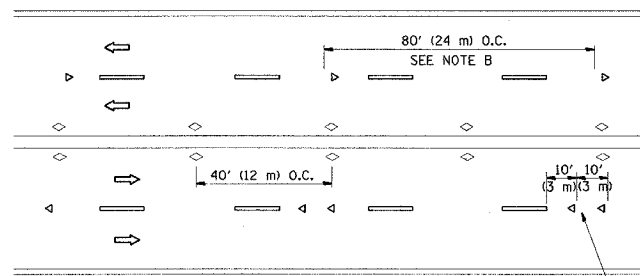
TWO-LANE/TWO-WAY



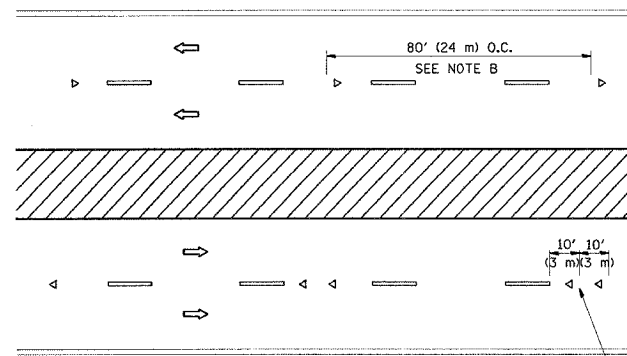
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

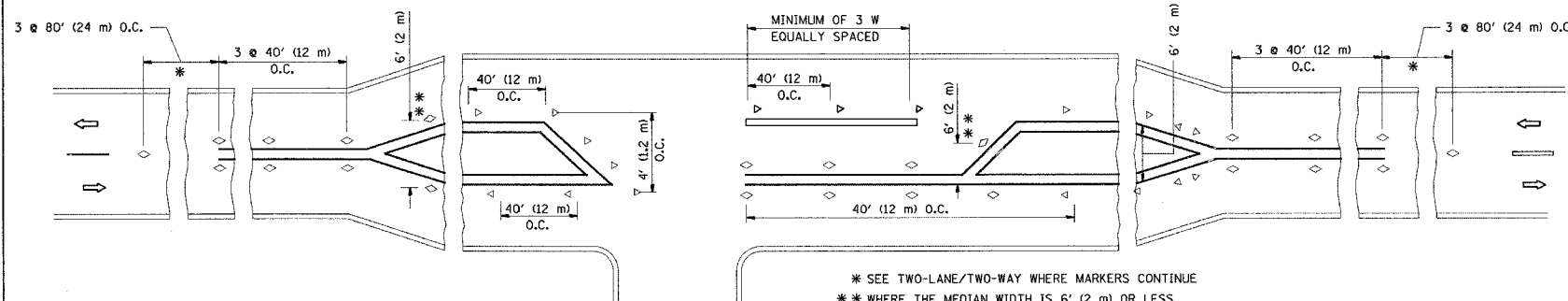
1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

- YELLOW STRIPE
- WHITE STRIPE
- ◁ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◇ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H. (20 km/h) LOWER THAN POSTED SPEEDS.
- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.



LEFT TURN

\* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE  
 \*\* WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

All dimensions are in inches (millimeters) unless otherwise shown.

REVISIONS	
NAME	DATE
T. RAMMACHER	09-19-94
T. RAMMACHER	03-12-99
T. RAMMACHER	01-06-00

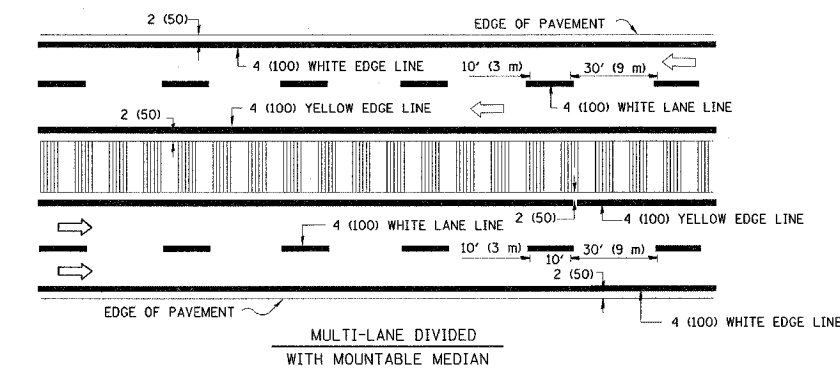
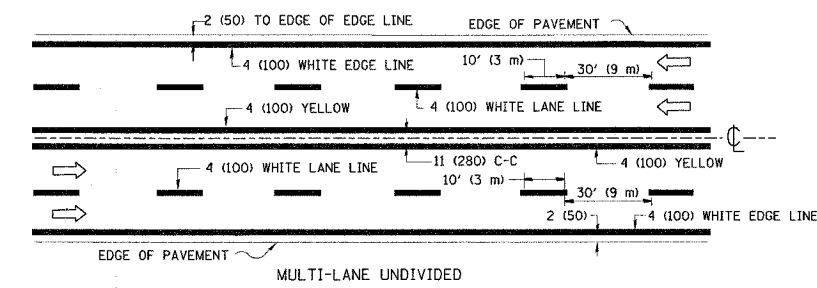
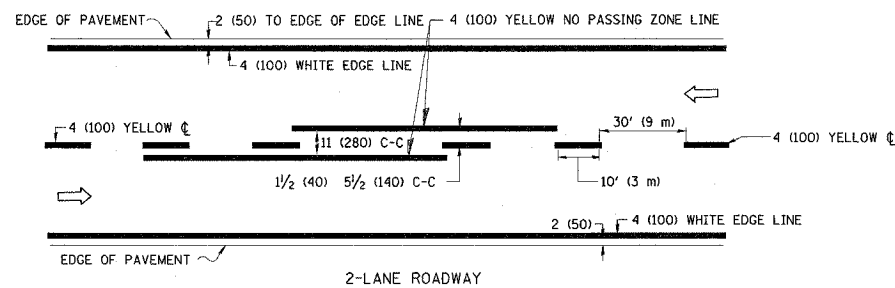
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TYPICAL APPLICATIONS  
 RAISED REFLECTIVE PAVEMENT  
 MARKERS (SNOW-PLOW RESISTANT)

SCALE: NONE

DRAWN BY CADD  
 CHECKED BY

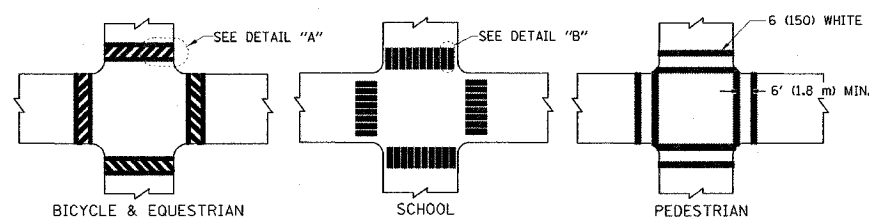
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	**	McHENRY	98	83
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

\*\* 111 RS-5 & 116 B-1

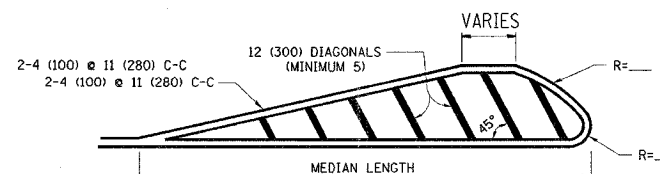
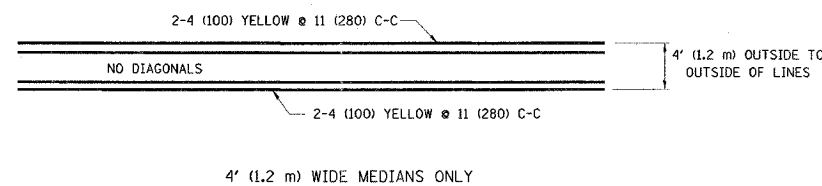


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING

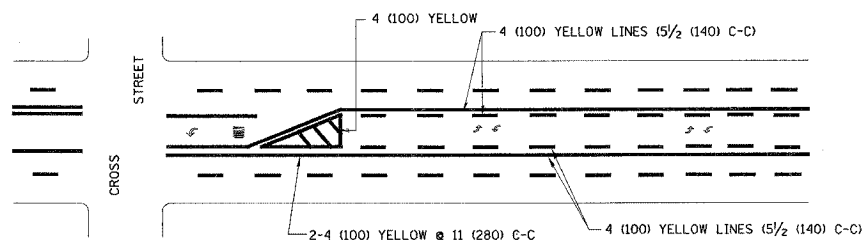


TYPICAL CROSSWALK MARKING

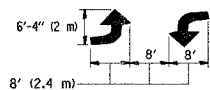


FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.  
 DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))  
 75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)  
 150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

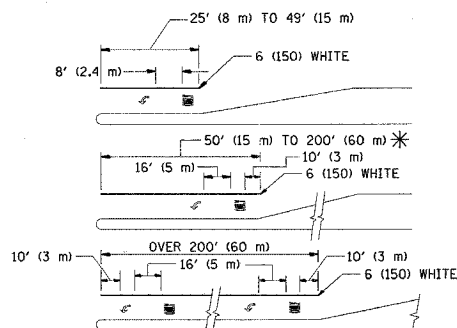


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

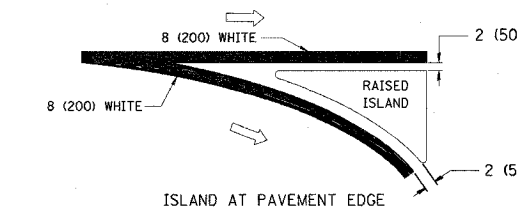
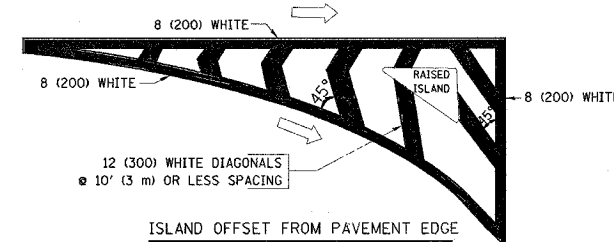


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
 AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)

\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL))	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in inches (millimeters) unless otherwise shown.

REVISIONS	
NAME	DATE
EVERS	03-19-90
T. RAMMACHER	10-27-94
ALEX HOUSEH	10-09-96
ALEX HOUSEH	10-17-96
T. RAMMACHER	01-06-00

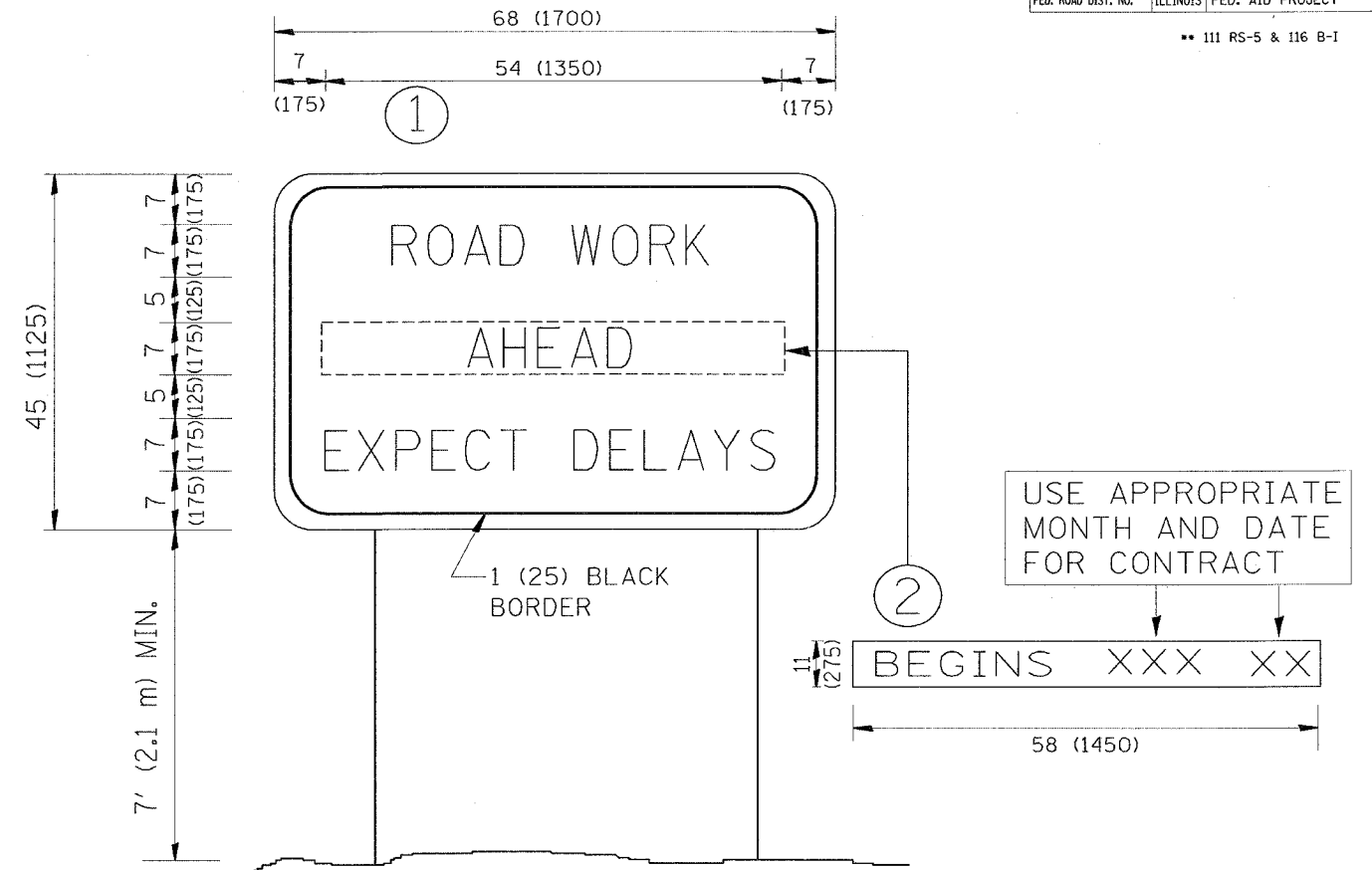
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 DISTRICT ONE  
 TYPICAL PAVEMENT MARKINGS

SCALE: NONE

DRAWN BY CADD  
 CHECKED BY  
 TC-13

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	**	MCHENRY	98	84
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

\*\* 111 RS-5 & 116 B-1



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

REVISIONS	
NAME	DATE
R. MIRS	9-15-97
R. MIRS	12-11-97
T. RAMMACHER	2-2-99
C. JUCTUS	1-31-07

ILLINOIS DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD INFORMATION SIGN

SCALE: NONE

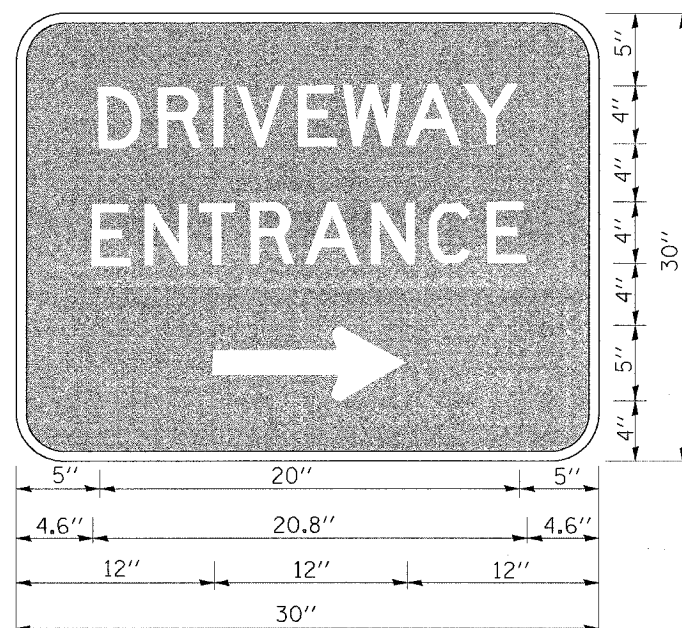
DRAWN BY DESIGN

CHECKED BY

TC22

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	**	McHENRY	98	85
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

\*\* 111 RS-5 & 116 B-1



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED  
 "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

**NOTES:**

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE  
 PLACED BACK-TO-BACK: ONE WITH A RIGHT HAND ARROW (SHOWN)  
 SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY  
 AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE  
 FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

PLOT DATE = 5/18/2007  
 FILE NAME = F:\data\1026.dgn  
 USER NAME = jrc/rlg

REVISIONS	
NAME	DATE
C. JUCIUS	02/15/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

**DRIVEWAY ENTRANCE  
 SIGNING**

SCALE: NONE  
 DATE

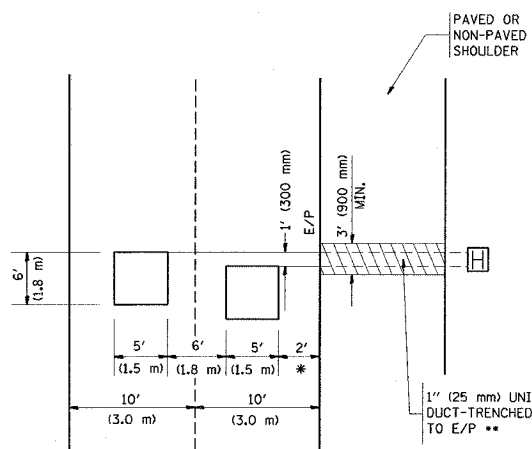
DRAWN BY R.H.  
 CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	**	McHENRY	38	86
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

\*\* 111 RS-5 & 116 B-1

LOOPS NEXT TO SHOULDERS

PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER.

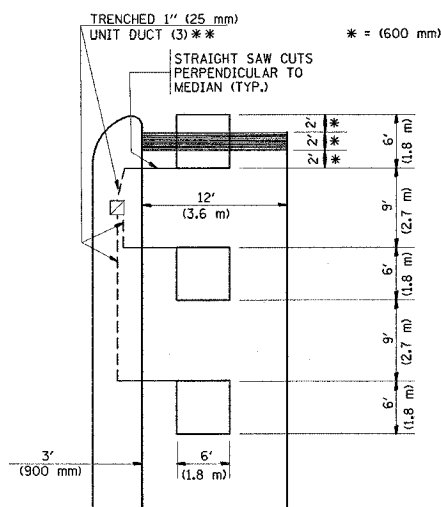


\* = (600 mm)

\*\* UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

LEFT TURN LANES WITH MEDIANS  
VOLUME DENSITY ("FAR OUT" DETECTION)  
ON SAME APPROACH  
(PROTECTED / PERMITTED LEFT TURN PHASING)

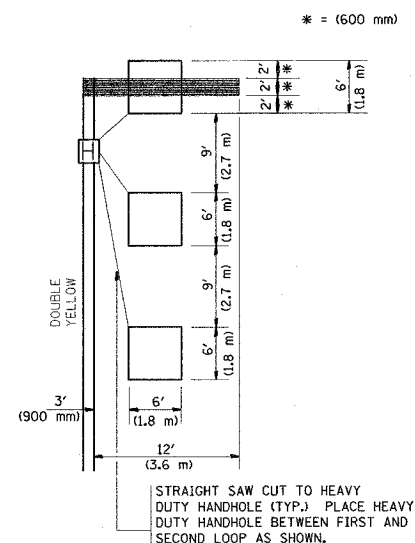
HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 814001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN.



\*\* UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

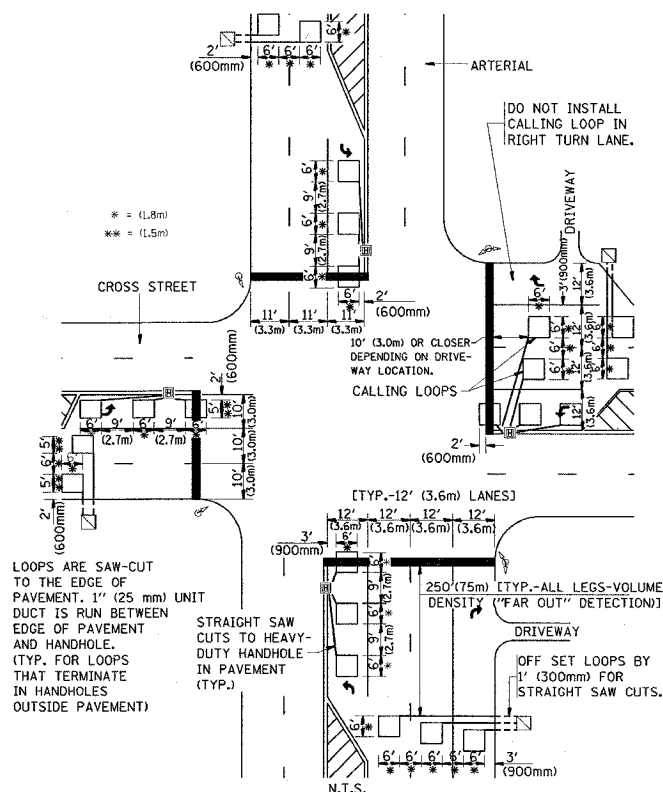
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

LEFT TURN LANES WITHOUT MEDIANS  
VOLUME DENSITY ("FAR OUT" DETECTION)  
ON SAME APPROACH  
(PROTECTED / PERMITTED LEFT TURN PHASING)



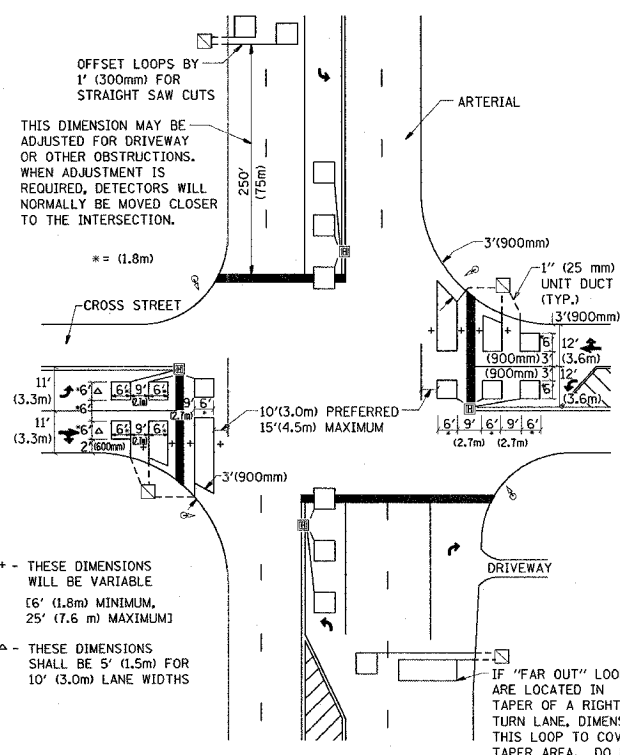
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)  
CROSS STREET-VOLUME DENSITY ("FAR OUT" DETECTION)



DETAIL 1  
N.T.S.

ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)  
CROSS STREET-NON VOLUME DENSITY ("UPTIGHT" PRESENCE DETECTION)



DETAIL 2  
N.T.S.

NOTES:

VEHICLES LOOP DETECTORS

- \* ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
- \* EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- \* EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATELY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- \* ONE DIMENSION OF ALL DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
- \* EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
- \* WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (i.e. 1-1/2, 1-3/4, 2).
- \* WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

PLACEMENT OF DETECTORS

THE FOLLOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.

LOCATIONS AND DEMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON ALL SIGNAL LAYOUT PLAN SHEETS.

"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAVEMENT EXTENDED.

NOTE:

ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1 TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
DISTRICT 1  
DETECTOR LOOP  
INSTALLATION DETAILS  
FOR ROADWAY RESURFACING

SCALE: NONE

DESIGNED BY  
DRAWN BY CADD  
CHECKED BY R.K.F.

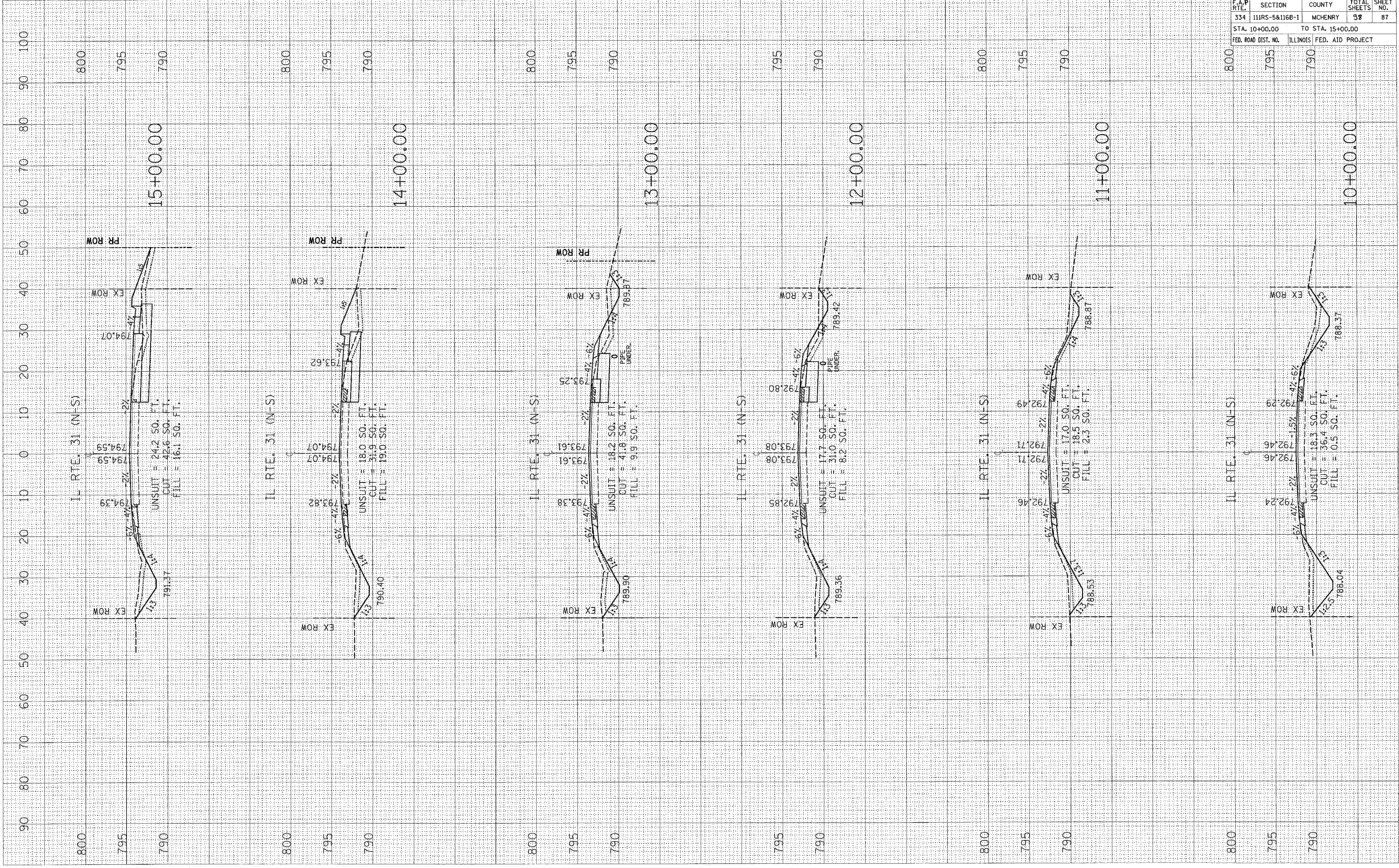
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 USER NAME = mdsjls

ORIGINAL SURVEY  
 SURVEYED  
 TEMPLA  
 AREAS CHECKED

FINAL SURVEY  
 SURVEYED  
 TEMPLA  
 AREAS CHECKED

BY \_\_\_\_\_ DATE \_\_\_\_\_  
 NO. \_\_\_\_\_



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	111RS-5&116B-1	MCHENRY	38	87
STA. 10+00.00		TO STA. 15+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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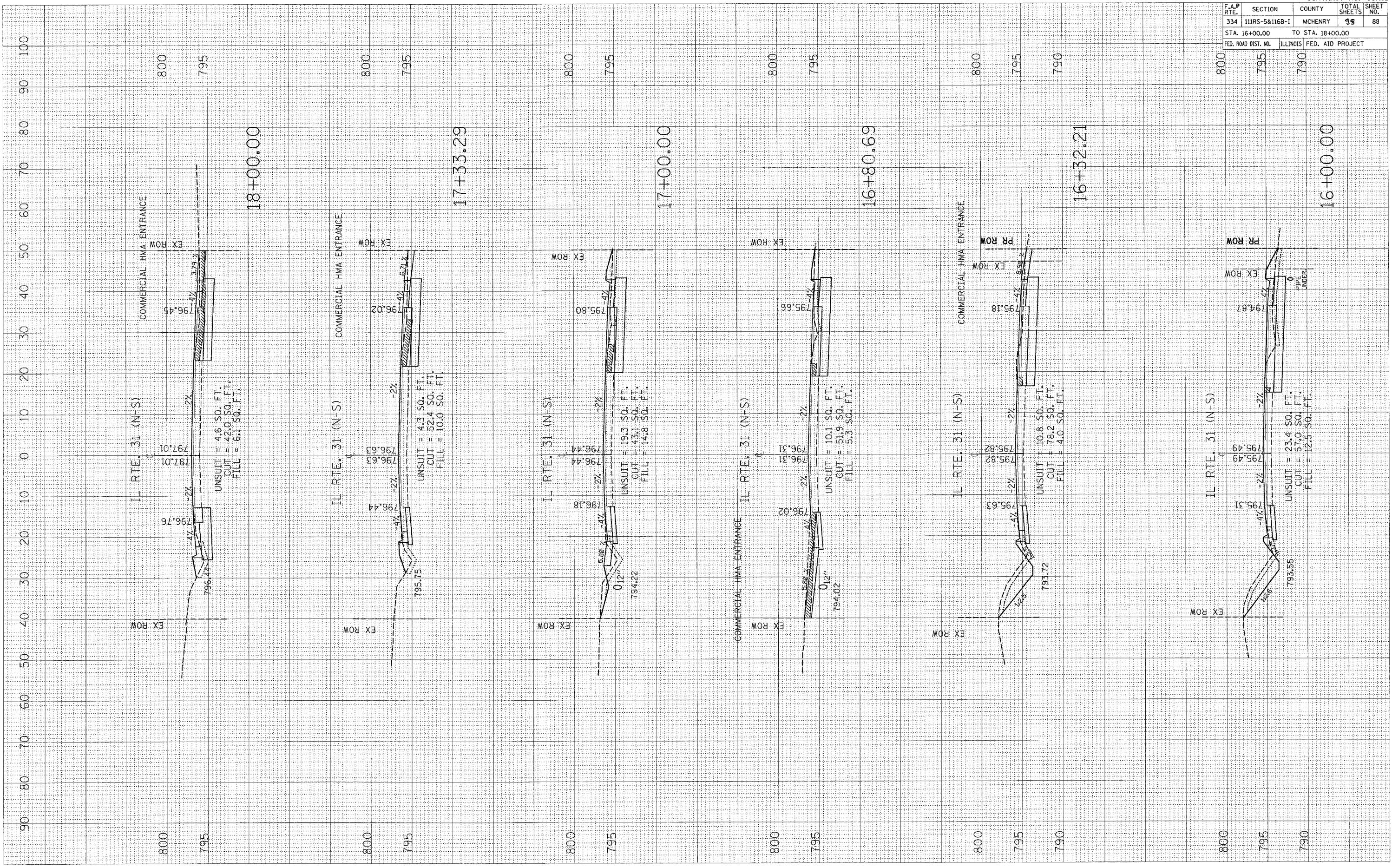
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 PLOT SCALE = 1/8" = 100.00'  
 USER NAME = mchjjs

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FINAL SURVEY PLOTTED TEMPLATE AREAS CHECKED

BY \_\_\_\_\_ DATE \_\_\_\_\_

BY \_\_\_\_\_ DATE \_\_\_\_\_



F.A.P. RTE.		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334		111RS-5&116B-1	MCHENRY	38	88
STA. 16+00.00		TO STA. 18+00.00			
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

CONTRACT NO. 60A91

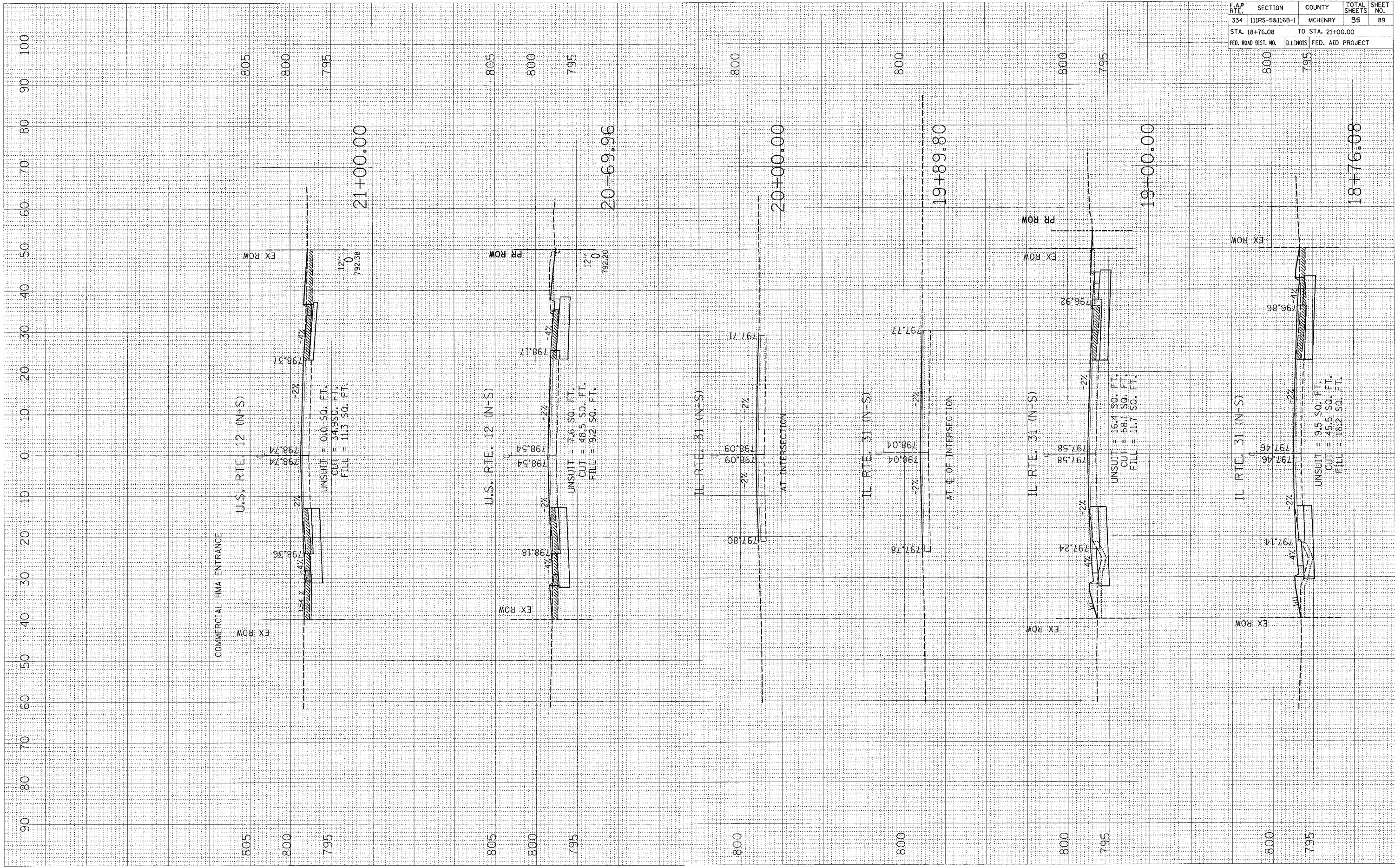


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FINAL SURVEY PLOTTED TEMPLATE AREAS CHECKED

BY: \_\_\_\_\_ DATE: \_\_\_\_\_



CONTRACT NO. 60A91			
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
334	111RS-5&116B-1	MCHENRY	98
STA. 18+76.08		TO STA. 21+00.00	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	

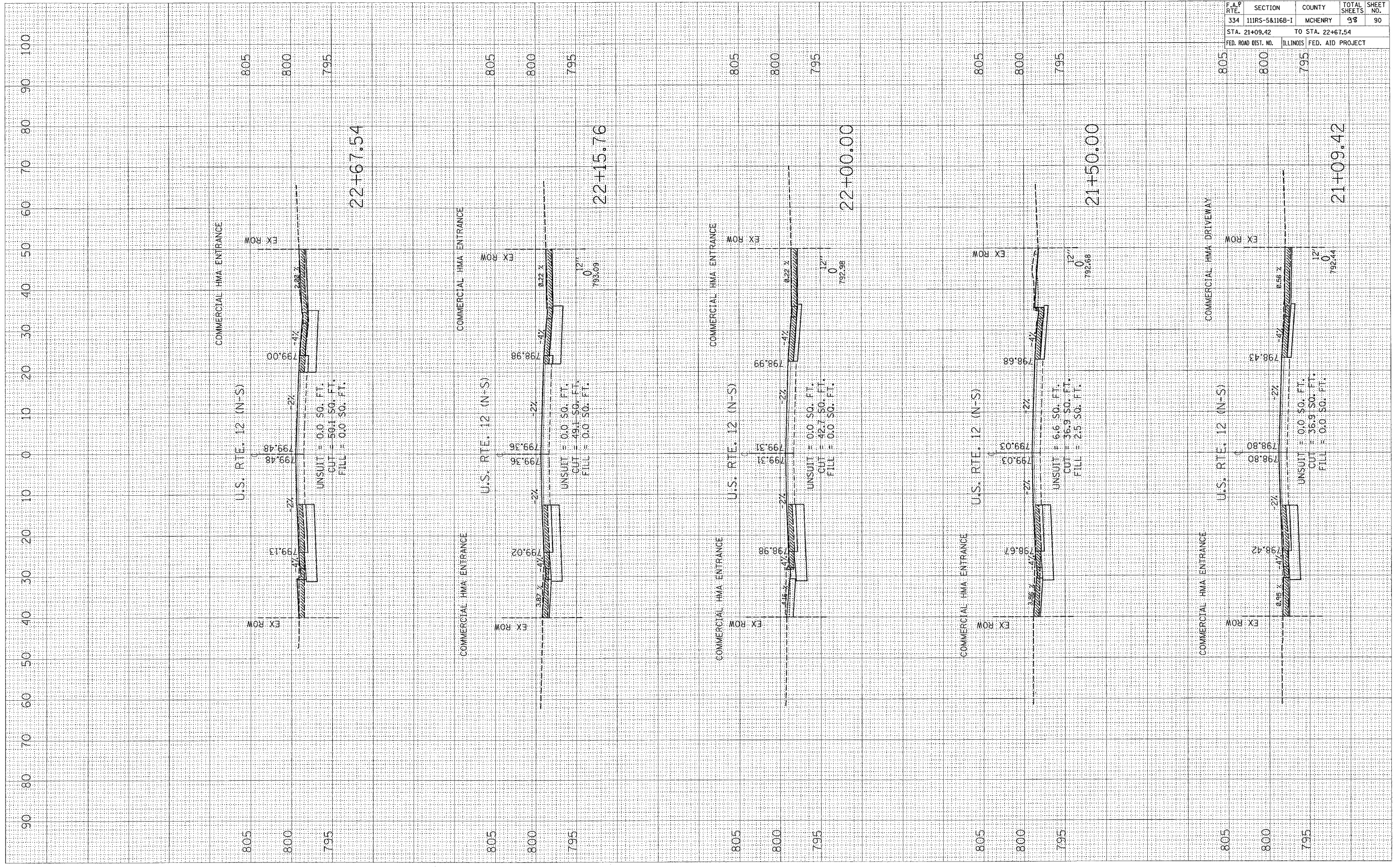
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 NOTE BOOK NO. AREAS CHECKED

FINAL SURVEY PLOTTED  
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 NOTE BOOK NO. AREAS CHECKED

BY: DATE



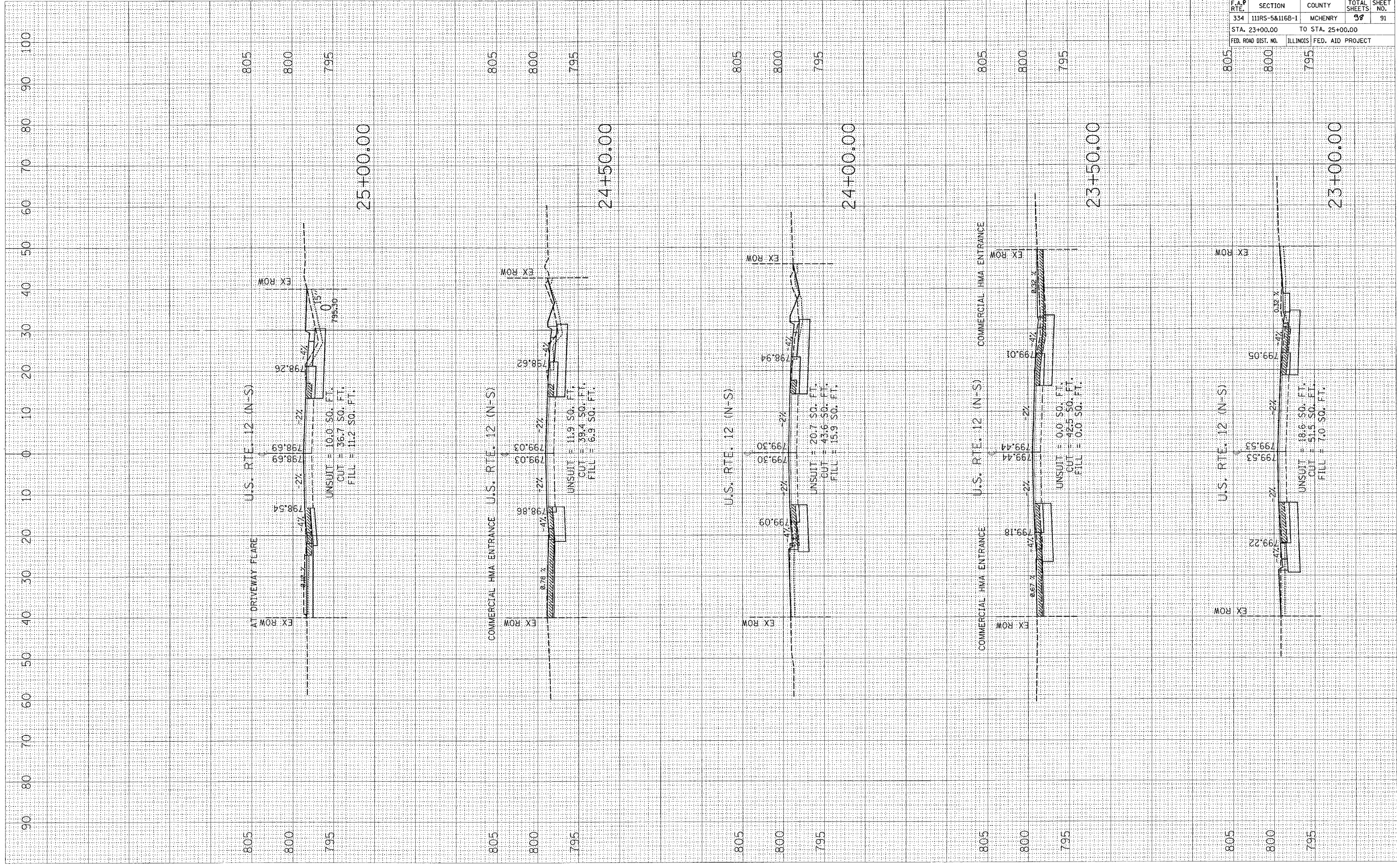
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334	111RS-5&1168-1	MCHENRY		93		90	
STA. 21+09.42				TO STA. 22+67.54			
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT					

CONTRACT NO. 60A91

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FINAL SURVEY  
 SURVEYED  
 PLOTTED  
 DATE  
 BY  
 AREAS CHECKED



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	111RS-5&116B-1	MCHENRY	38	91
STA. 23+00.00		TO STA. 25+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

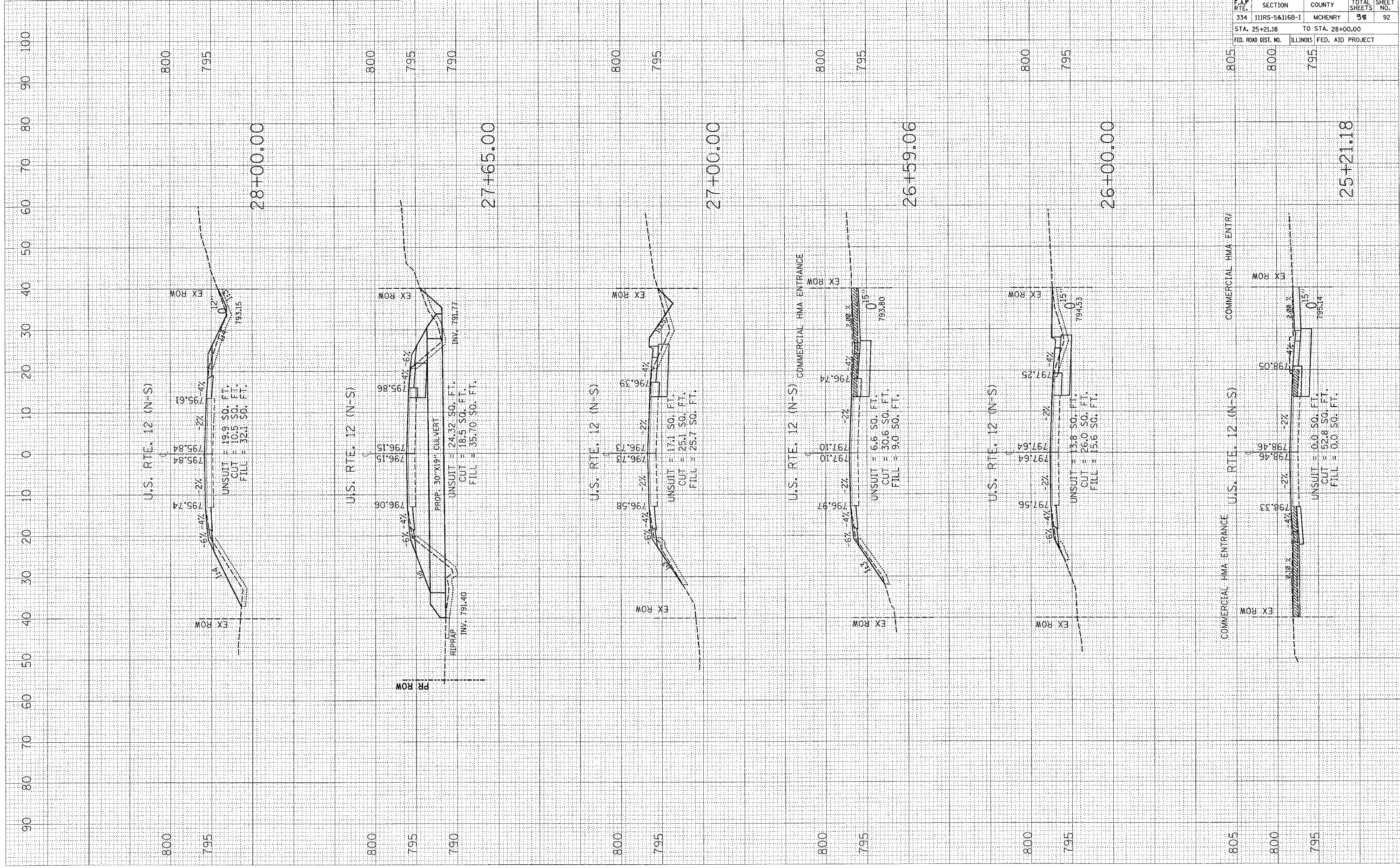
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 PLOTTED BY DATE  
 AREAS CHECKED BY DATE

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

F.A.P. RTE.		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334		11185-5&1168-1	MCHENRY	98	92
STA. 25+21.18		TO STA. 28+00.00			
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

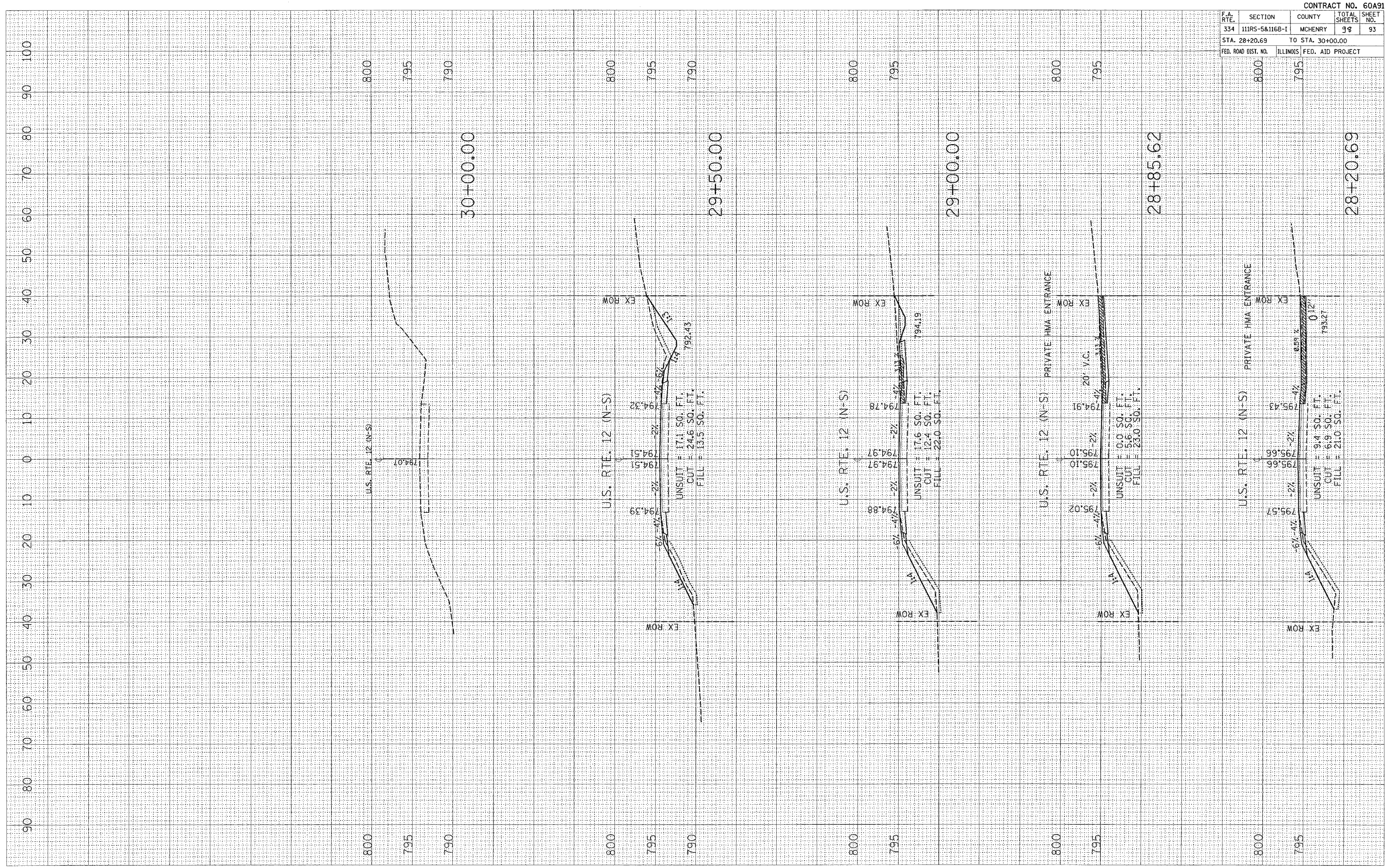


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FINAL SURVEY PLOTTED  
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BY DATE

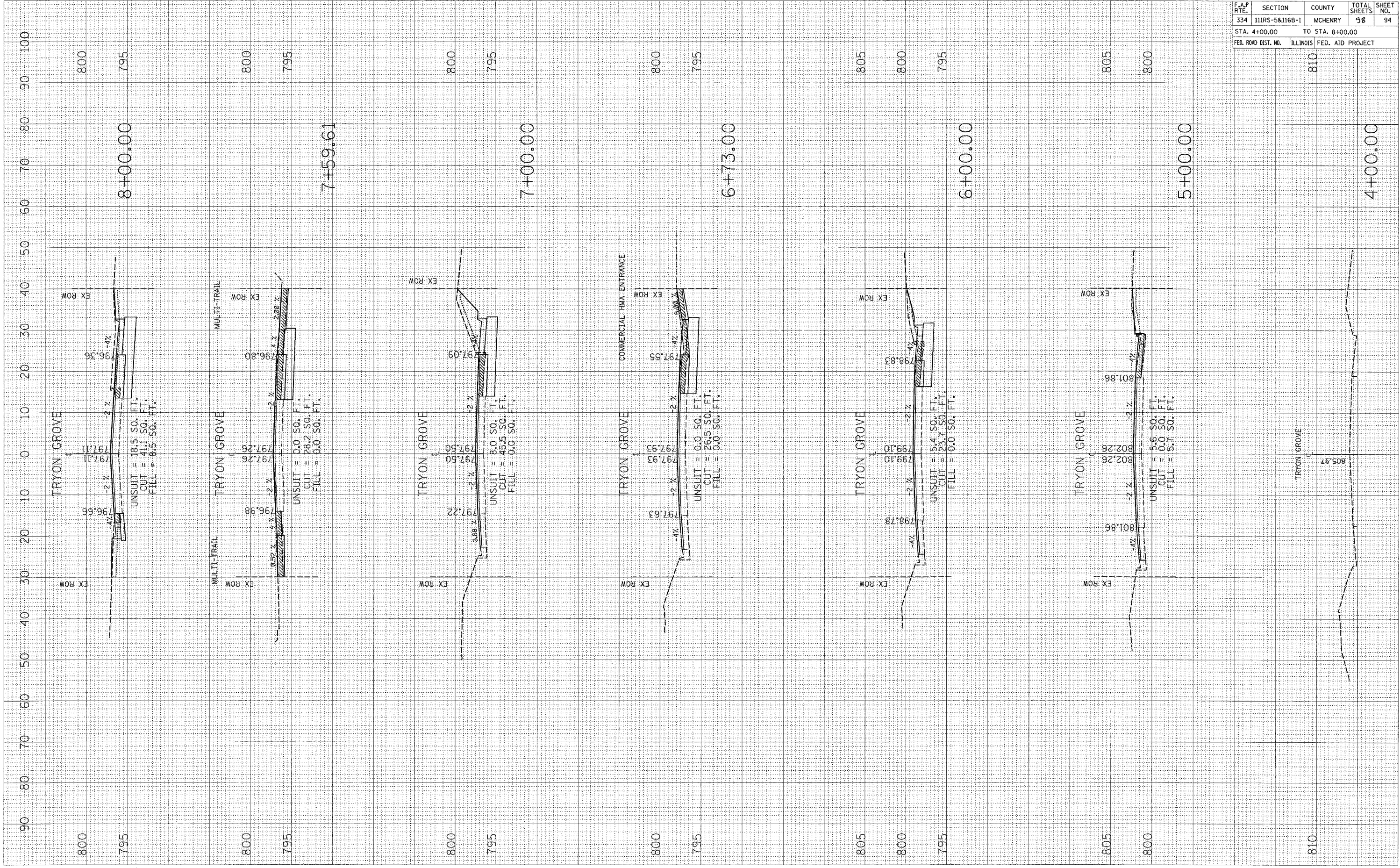


CONTRACT NO. 60A91			
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS
334	111RS-5&116B-1	MCHENRY	98
STA. 28+20.69		TO STA. 30+00.00	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	SHEET NO.
			93

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ORIGINAL SURVEY PLOTTED AREAS CHECKED  
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 BY DATE

FINAL SURVEY PLOTTED AREAS CHECKED  
 NOTE BOOK NO.  
 BY DATE



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	111RS-5&116B-1	MCHENRY	98	94
STA. 4+00.00		TO STA. 8+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

CONTRACT NO. 60A91  
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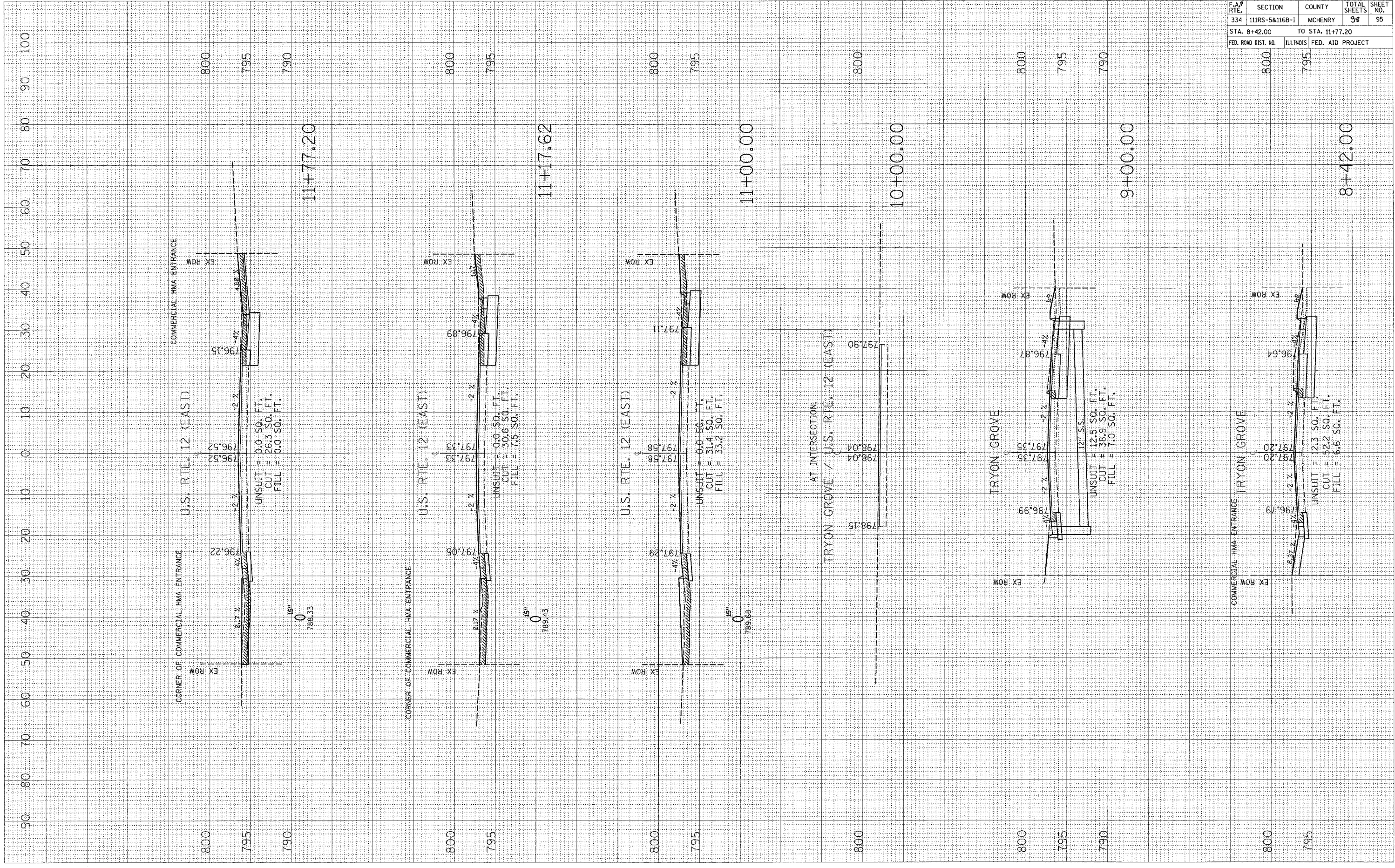
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FINAL SURVEY PLOTTED TEMPLATE AREAS CHECKED

BY: \_\_\_\_\_ DATE: \_\_\_\_\_



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	111RS-5&116B-1	MCHENRY	98	95
STA. 8+42.00		TO STA. 11+77.20		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

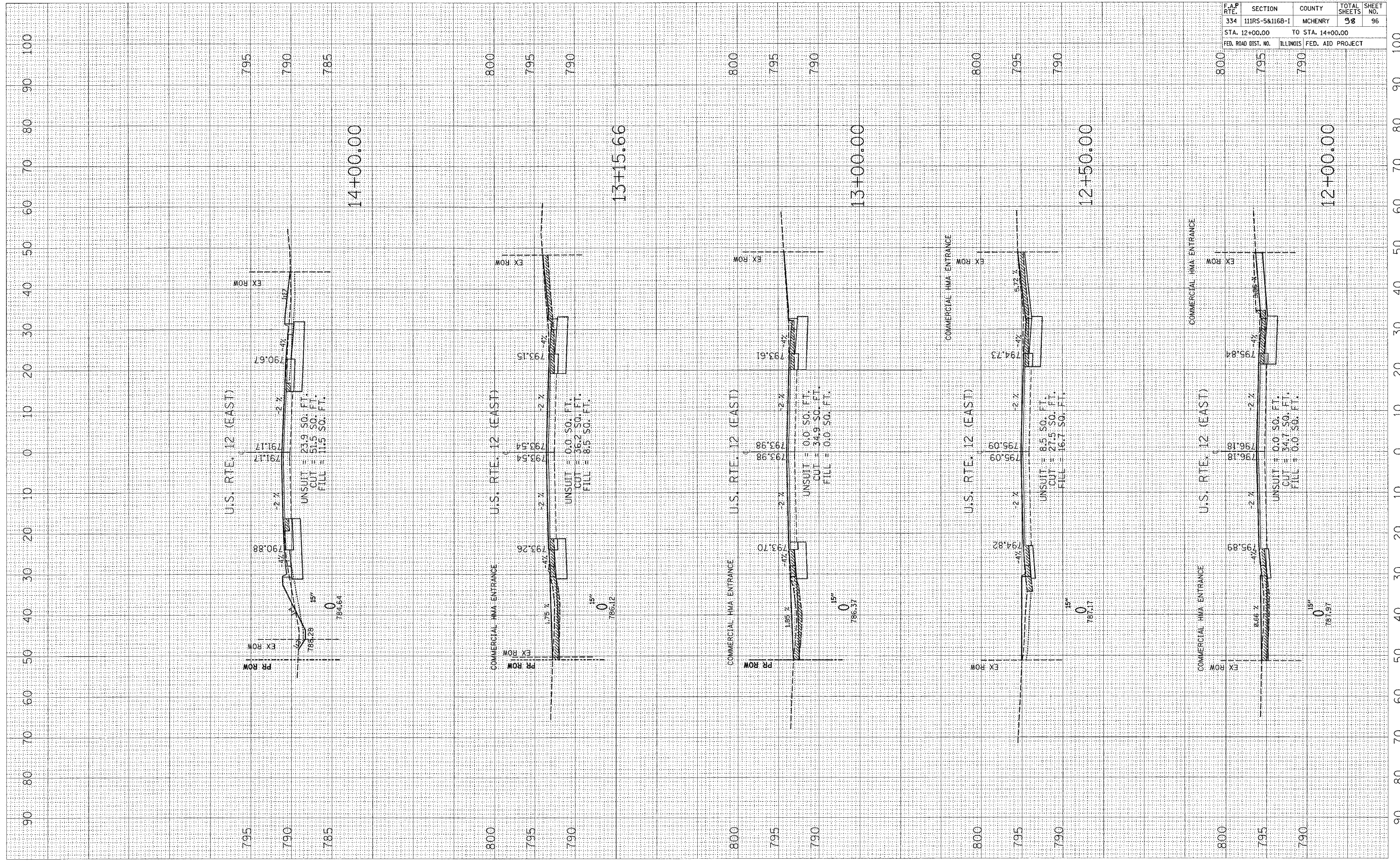
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FINAL SURVEY PLOTTED AREAS CHECKED

BY: \_\_\_\_\_ DATE: \_\_\_\_\_



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	111RS-5&116B-1	MCHENRY	98	96
STA. 12+00.00		TO STA. 14+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

CONTRACT NO. 60A91

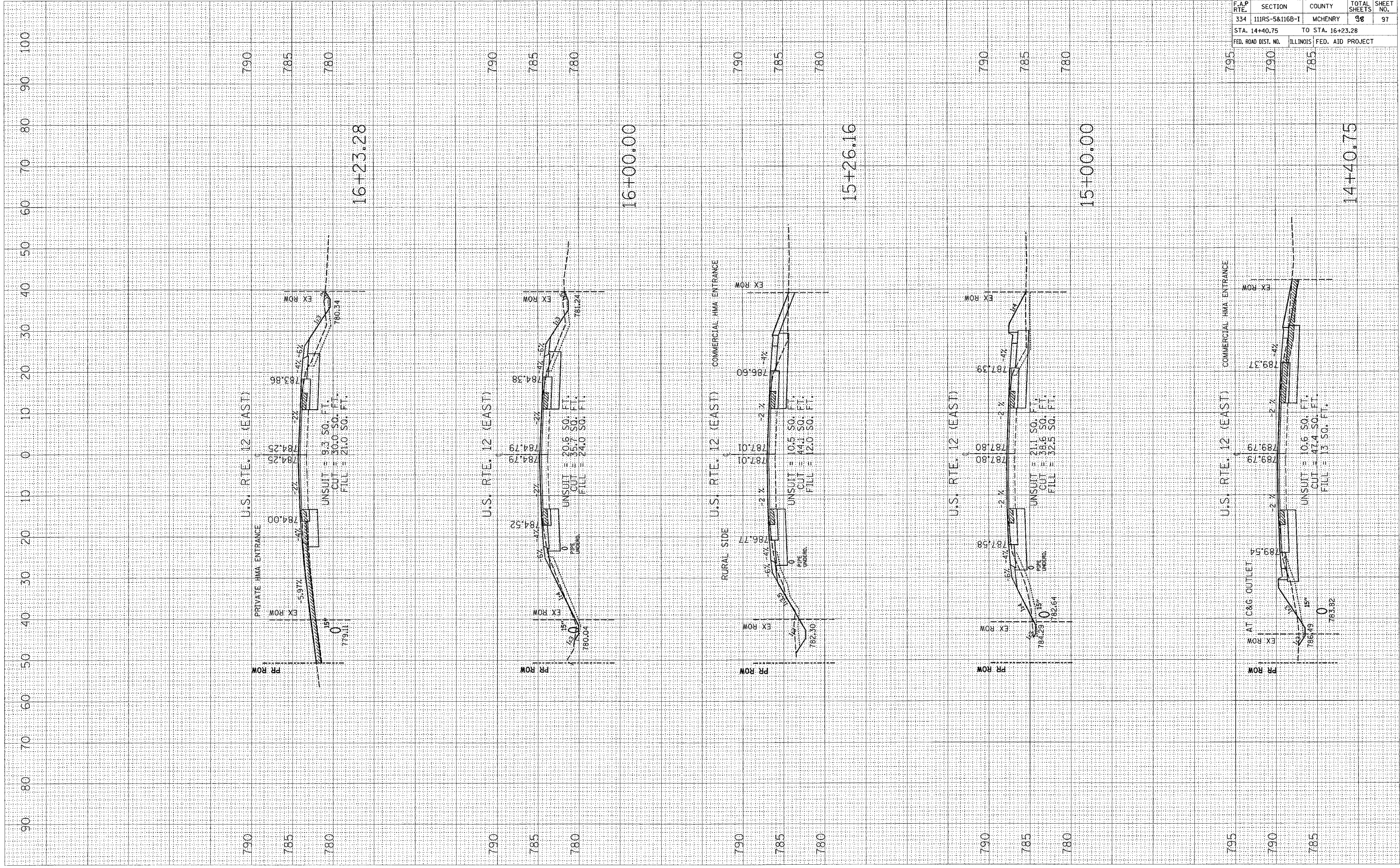


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FINAL SURVEY PLOTTED TEMPLATE AREAS CHECKED

BY: \_\_\_\_\_ DATE: \_\_\_\_\_



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	111RS-5&116B-1	MCHENRY	98	97
STA. 14+40.75		TO STA. 16+23.28		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

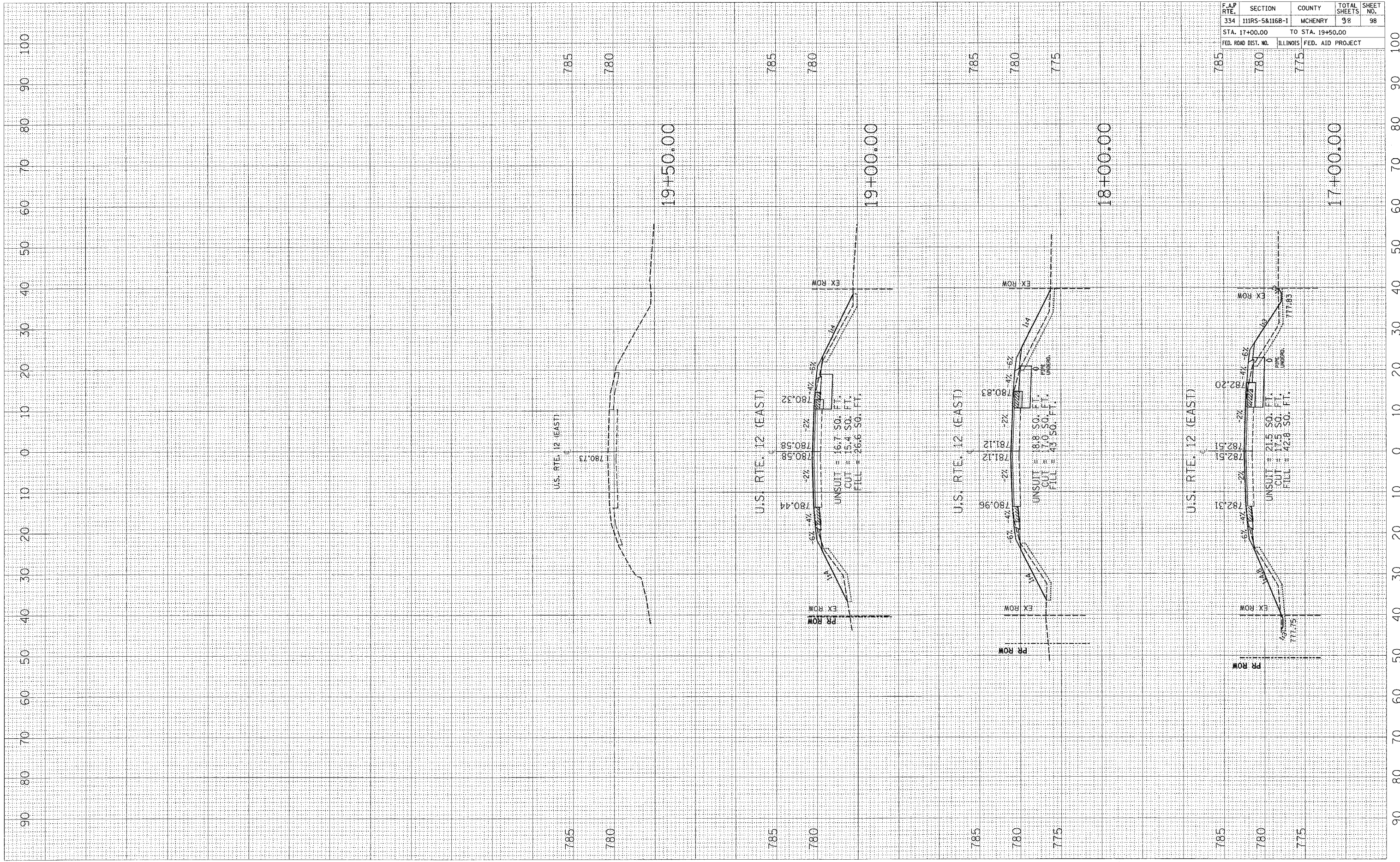
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ORIGINAL SURVEY PLOTTED  
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 NO. AREAS CHECKED

FINAL SURVEY PLOTTED  
 SURVEY PLOTTED  
 NO. AREAS CHECKED

BY DATE



CONTRACT NO. 60A91			
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS
334	111RS-5&116B-1	MCHENRY	98
STA. 17+00.00		TO STA. 19+50.00	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	

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