

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROJECT IS LOCATED IN UNINCORPORATED
MCHENRY COUNTY

TRAFFIC DATA:

ILL ROUTE 120:
2009 ADT = 10,700
SPEED LIMIT = 55 MPH

FLEMING ROAD:
2009 ADT = 2,350
SPEED LIMIT = 45 MPH

PROPOSED
HIGHWAY PLANS

FAP 333: IL. RTE. 120 (MCHENRY AVENUE)
AT FLEMING ROAD
SECTION 15-N-6

INTERSECTION IMPROVEMENT AND
NEW TRAFFIC SIGNAL INSTALLATION

PROJECT: NHF-0333(015)

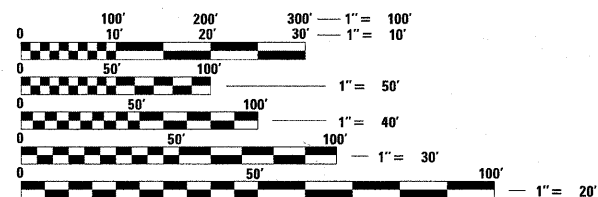
MCHENRY COUNTY

C-91-663-10

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	15-N-6	MC HENRY	67	1
ILLINOIS			CONTRACT NO. 60L27	

#67+3=70

D-91-663-10

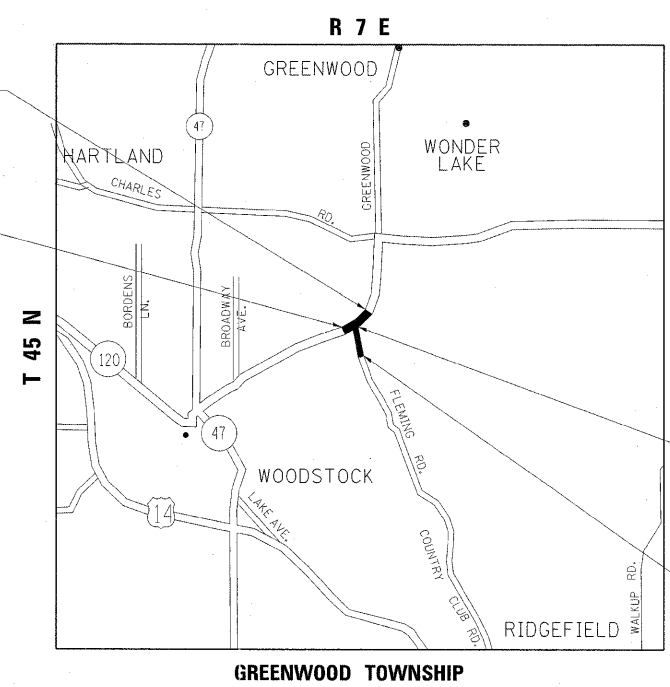


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

ILL ROUTE 120
PROJECT ENDS
STATION 137 + 40

ILL ROUTE 120
PROJECT BEGINS
STATION 123 + 00



FLEMING ROAD
PROJECT ENDS
STATION 219 + 15

FLEMING ROAD
PROJECT BEGINS
STATION 211 + 29

PROJECT ENGINEER: JENPAI CHANG (847) 705 - 4432
PROJECT MANAGER: KEN ENG

ILL ROUTE 120: GROSS AND NET LENGTH = 1,440.00 FT. = 0.27 MILE
FLEMING ROAD: GROSS AND NET LENGTH = 786.00 FT. = 0.15 MILE

CONTRACT NO. 60L27

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED OCTOBER 14 20 11

Diana M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

December 9 20 11

Scott E. Stitt P.E.
ENGINEER OF DESIGN AND ENVIRONMENT

December 9 20 11

William R. Frey Jr.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

LIST OF STATE STANDARDS:

GENERAL NOTES

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52	TYPICAL DETAIL FOR CENTER LONGITUDINAL JOINT GUARDRAIL JOINT (BM-5)
53	PRUNING FOR SAFETY AND EQUIPMENT CLEARANCE (BM-20)
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55	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) (TC-11)
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56A	ROUTE SIGNING DETAIL (MCHENRY COUNTY)
57	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC-14)
58	PAVEMENT MARKING LETTERS AND SYMBOL FOR TRAFFIC STAGING (TC-16)
59	ARTERIAL ROAD INFORMATION SIGN (TC-22)
60-67	CROSS SECTIONS

STANDARD NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
280001-06	TEMPORARY EROSION CONTROL SYSTEM
406201-01	MAILBOX TURNOUT
442201-03	CLASS C AND D PATCHES
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
482011-03	HMA SHLD. STRIPS / SHLDS. WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
602001-02	CATCH BASIN TYPE A
602401-03	MANHOLE TYPE A
602601-02	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604001-03	FRAME AND LIDS TYPE I
482011-03	CONCRETE CURB TYPE B AND COMBINATION CONCRTE CURB AND GUTTER
606201-02	TYPE B GUTTER (INLET, OUTLET & ENTRANCE)
630001-10	STEEL PLATE BEAM GUARDRAIL
630301-05	SHOULDER WIDENING FOR TYPE I (SPECIAL) GUARD RAIL TERMINALS
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
701006-03	OFF-RD OPERATIONS, 2L, 2W, 4.5 m (15') TO 600 mm (24") FROM PAVEMENT EDGE
701011-02	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY FOR SPEED > 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-03	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEED > 45 MPH
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS - DAY ONLY
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS > 45 MPH
701336-06	LANE CLOSURE, 2L, 2W, WORK AREAS IN SERIES, FOR SPEED > 45 MPH
701901-02	TRAFFIC CONTROL DEVICES
720011-01	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
877001-05	STEEL MAST ARM ASSEMBLY AND POLE 16 FT THROUGH 55 FT

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, AND MCHENRY COUNTY.

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

BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING, EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.

ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.

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

WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1-1/2 INCHES (38mm) WHERE THE SPEED IS 45 MPH OR LESS, AND 1 INCH (25mm) WHERE THE SPPED LIMIT IS 45 MPH, WITH WRITTEN APPROVAL FROM THE RESIDENT ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM OF 1:3 (V:H).

ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

FRAMES AND GRATES ADJUSTMENT OF PRIVATE UTILITIES WITHIN THE LIMITS OF THE IMPROVEMENTS SHALL BE DONE BY THEIR RESPECTIVE OWNERS AND ARE NOT PART OF THIS CONTRACT.

AS REQUESTED, THE ENGINEER SHALL NOTIFY WALTER DITTRICH, MCDOT DESIGN ENGINEER AT (815)334-4980 AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION SO THAT SIGNS CAN BE SCHEDULED FOR REMOVAL.

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

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.

DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" SHOWN IN THE PLANS.

THE CONTRACTOR SHALL MAINTAIN DRIVEWAY, FIELD ENTRANCE, AND SIDE ROAD ACCESS AT ALL TIMES AT THE LOCATIONS SHOWN ON THE PLANS OR WHERE DIRECTED BY THE ENGINEER.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

COMMITMENTS

IMPACT TO TREES ON THE EAST SIDE OF FLEMING ROAD SOUTH OF ILLINOIS ROUTE 120 SHOULD BE MINIMIZED AND/OR AVOIDED WHENEVER POSSIBLE.

FILE NAME =	USER NAME = galbenjr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ILLINOIS ROUTE 120 AT FLEMING ROAD INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pw\work\p\rdot\galbenjr\d0107803\113707-Design.dgn		DRAWN -	REVISED -		333	15-N-6	MCHENRY	67	2			
PLOT SCALE = 50.000' / in.		CHECKED -	REVISED -		CONTRACT NO. 60L27							
PLOT DATE = 10/14/2011		DATE -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO	STA.	ILLINOIS FED. AID PROJECT

SUMMARY OF QUANTITIES			URBAN	CONSTRUCTION TYPE CODE			SUMMARY OF QUANTITIES			URBAN	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	80% FED. 20% STATE IL. 120 ROADWAY 0004	100% MCHENRY CO. FLEMING RD. ROADWAY 0004	80% FED. 13% STATE 7% COUNTY TRAFFIC SIGNAL 0021				URBAN TOTAL QUANTITIES	80% FED. 20% STATE IL. 120 ROADWAY 0004	100% MCHENRY CO. FLEMING RD. ROADWAY 0004	80% FED. 13% STATE 7% COUNTY TRAFFIC SIGNAL 0021			
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) (TANGENT)	EACH	1	1						40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	723	723		
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	160	24	136					40701876	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 9 3/4"	SO YD	3306		3306	
20101100	TREE TRUNK PROTECTION	EACH	5		5					42001300	PROTECTIVE COAT	SO YD	107	29	78	
20101200	TREE ROOT PRUNING	EACH	11	4	7					44000100	PAVEMENT REMOVAL	SO YD	4464		4464	
20200100	EARTH EXCAVATION	CU YD	8302	4020	4282					44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SO YD	5845	5845		
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	409	334	75					44000200	DRIVEWAY PAVEMENT REMOVAL	SO YD	458	253	205	
20800150	TRENCH BACKFILL	CU YD	33	16	17					44004250	PAVED SHOULDER REMOVAL	SO YD	2506	1811	695	
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SO YD	1249		1249					44201789	CLASS D PATCHES, TYPE II, 12 INCH	SO YD	350	350		
* 21101625	TOPSOIL FURNISH AND PLACE, 6"	SO YD	3735	3170	565					44201794	CLASS D PATCHES, TYPE III, 12 INCH	SO YD	525	525		
* 25000210	SEEDING, CLASS 2A	ACRE	0.7	0.55	0.15					44201796	CLASS D PATCHES, TYPE IV, 12 INCH	SO YD	876	876		
* 25000300	SEEDING, CLASS 3	ACRE	0.2	0.2						44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	2470	1450	1020	
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	82	68	14					48101600	AGGREGATE SHOULDERS, TYPE B 8"	SO YD	1197	845	352	
* 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	82	68	14					48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	5		5	
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	82	68	14					48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SO YD	1510	1045	465	
* 25100630	EROSION CONTROL BLANKET	SO YD	3735	3170	565					50105220	PIPE CULVERT REMOVAL	FOOT	170	123	47	
25100900	TURF REINFORCEMENT MAT	SO YD	12		12					54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	2		2	
* 25200110	SODDING, SALT TOLERANT	SO YD	3735	3170	565					54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	9	8	1	
* 25200200	SUPPLEMENTAL WATERING	UNIT	38	32	6					54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	1		1	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	80	65	15					542A0217	PIPE CULVERTS, CLASS A, TYPE 1 12"	FOOT	90		90	
28000305	TEMPORARY DITCH CHECKS	FOOT	420	320	100					542A0220	PIPE CULVERTS, CLASS A, TYPE 1 15"	FOOT	199	199		
28000400	PERIMETER EROSION BARRIER	FOOT	4985	3270	1715					542A0223	PIPE CULVERTS, CLASS A, TYPE 1 18"	FOOT	83		83	
28000500	INLET AND PIPE PROTECTION	EACH	14	8	6					60107600	PIPE UNDERDRAINS 4"	FOOT	299	200	99	
28100105	STONE RIPRAP, CLASS A3	SO YD	550	435	115					60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1		1	
28200200	FILTER FABRIC	SO YD	550	435	115					60600095	CLASS SI CONCRETE (OUTLET)	CU YD	2		2	
35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SO YD	634	414	220					63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	50	50		
35600716	HOT-MIX ASPHALT BASE COURSE WIDENING, 10"	SO YD	419	419						63200310	GUARDRAIL REMOVAL	FOOT	50	50		
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	422	275	147					67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	2	4	
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	9	6	3					67100100	MOBILIZATION	L SUM	1	0.25	0.75	
40600300	AGGREGATE (PRIME COAT)	TON	39	25	14					70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	5	1	4	
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	14	9	5					70106800	CHANGEABLE MESSAGE SIGN	CAL MO	1	0.25	0.75	
40600895	CONSTRUCTING TEST STRIP	EACH	2	1	1					70300100	SHORT TERM PAVEMENT MARKING	FOOT	942	217	725	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	62	40	22					70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SO FT	154.8	77.4	77.4	
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	74	48	26											

* SPECIALTY ITEMS

FILE NAME =	USER NAME = gabanjr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ILLINOIS ROUTE 120 AT FLEMING ROAD SUMMARY OF QUANTITIES	F.A.P. RTE. 333	SECTION 15-N-6	COUNTY MCHENRY	TOTAL SHEETS 37	SHEET NO. 3
CONTRACT NO. 60L27	SCALE:	SHEET NO. OF SHEETS	STA. TO STA.			FED. ROAD DIST. NO. 1	ILLINOIS FED. AID PROJECT			
PLOT SCALE = 50,000' / 1" IN.	CHECKED -	REVISED -								
PLOT DATE = 10/25/2011	DATE -	REVISED -								

SUMMARY OF QUANTITIES			URBAN	100% CONSTRUCTION TYPE CODE			SUMMARY OF QUANTITIES			URBAN	100% CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	80% FED. 20% STATE IL. 120 ROADWAY 0004	MCHENRY CO. FLEMING RD. ROADWAY 0004	80% FED. 13% STATE 7% COUNTY TRAFFIC SIGNAL 0021				URBAN TOTAL QUANTITIES	80% FED. 20% STATE IL. 120 ROADWAY 0004	MCHENRY CO. FLEMING RD. ROADWAY 0004	80% FED. 13% STATE 7% COUNTY TRAFFIC SIGNAL 0021			
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	11002	7330	3672					* 81400200	HEAVY-DUTY HANDHOLE	EACH	6			6
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	360	280	80					* 81400300	DOUBLE HANDHOLE	EACH	1			1
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	550	550						* 81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	665			665
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	272	157	115					* 85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1			1
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	78	46	32					* 87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1613			1613
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	12034		12034					* 87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	672			672
70300570	PAVEMENT MARKING TAPE, TYPE III 24"	FOOT	76		76					* 87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1208			1208
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	5035	2905	2130					* 87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	56			56
* 72000100	SIGN PANEL - TYPE 1	SO FT	89.5	12	61	16.5				* 87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	453			453
* 72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	1		1					* 87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	4			4
* 72900100	METAL POST - TYPE A	FOOT	176	32	144					* 87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1			1
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	154.8	77.4	77.4					* 87700180	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1			1
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	11002	7330	3672					* 87700240	STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	1			1
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	360	280	80					* 87800100	CONCRETE FOUNDATION, TYPE A	FOOT	20			20
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	550		550					* 87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4			4
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	272	157	115					* 87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	10			10
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	78	46	32					* 87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	13			13
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	111	66	45					* 88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	3			3
* 78200420	GUARDRAIL MARKERS, TYPE B	EACH	2	2						* 88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3			3
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	1	1						* 88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1			1
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	59	59						* 88030240	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1			1
81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	510			510				* 88030310	SIGNAL HEAD, LED, 3-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1			1
81000700	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	87			87				* 88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	4			4
81000800	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	52			52				* 88500100	INDUCTIVE LOOP DETECTOR	EACH	5			5
81001000	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	104			104				* 88600100	DETECTOR LOOP, TYPE I	FOOT	470			470
81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	167			167				* A2002920	TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	5		5	
81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	222			222										
* 81400100	HANDHOLE	EACH	1			1										

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

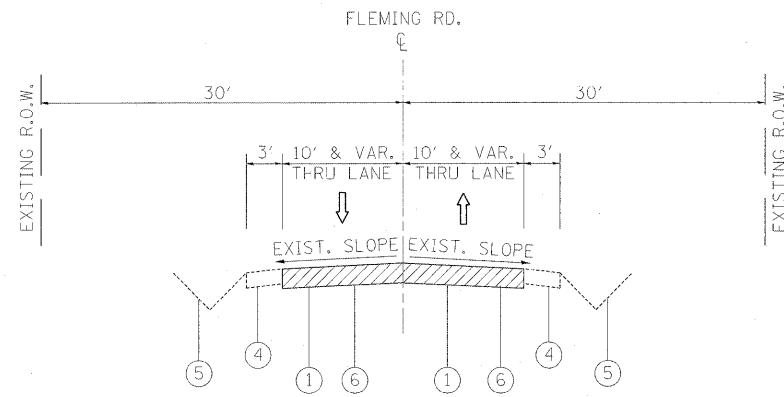
ILLINOIS ROUTE 120 AT FLEMING ROAD
SUMMARY OF QUANTITIES

F.A.P. RTE. 333	SECTION 15-N-6	COUNTY MCHENRY	TOTAL SHEETS 67	SHEET NO. 4
CONTRACT NO. 60L27			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

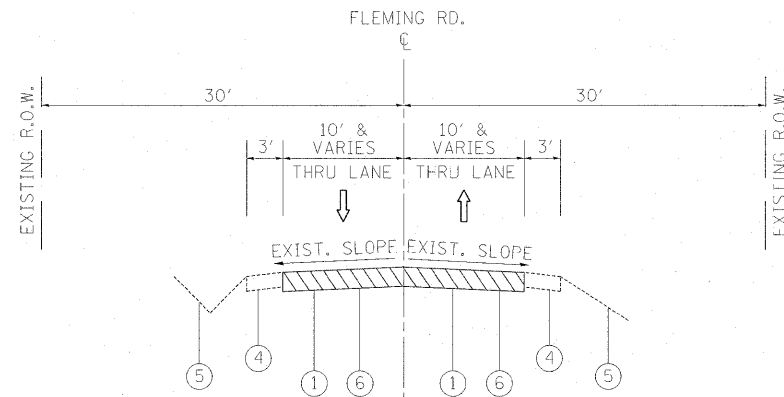
SCALE: SHEET NO. OF SHEETS STA. TO STA.

FILE NAME =	USER NAME = galbanjr	DESIGNED -	REVISED -
cd:\work\pwl\ddp\galbanjr\1007803\FR3707-Des\gndm		DRAWN -	REVISED -
PLOT SCALE = 50,000' / 1"		CHECKED -	REVISED -
PLOT DATE = 10/3/2011		DATE -	REVISED -

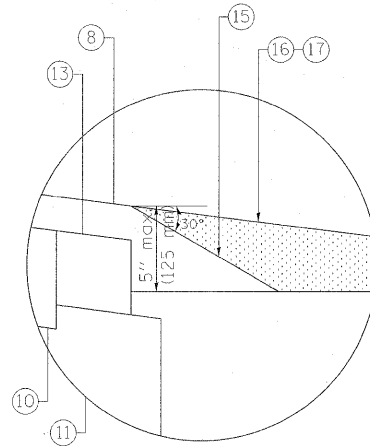
SUMMARY OF QUANTITIES			URBAN	CONSTRUCTION TYPE CODE			SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE			
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	80% FED. 20% STATE IL. 120 ROADWAY 0004	100% MCHENRY CO. FLEMING RD. ROADWAY 0004	80% FED. 13% STATE 7% County TRAFFIC SIGNAL 0021				TOTAL QUANTITIES			
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	68	35	33								
X2020110	GRADING AND SHAPING SHOULDERS	UNIT	38	25	13								
X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	10	5	5								
X6063600	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.24	FOOT	329	89	240								
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	0.25	0.75								
* 80500020	SERVICE INSTALLATION - POLE MOUNTED	EACH	1			1							
* 86200200	UNINTERRUPTIBLE POWER SUPPLY	EACH	1			1							
Z0001050	AGGREGATE SUBGRADE 12"	SO YD	3725	419	3306								
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0.25	0.75								
Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	77.1	51.4	25.7								
Z0042002	POROUS GRANULAR EMBANKMENT, SUBGRADE	CU YD	417		417								
Z0062456	TEMPORARY PAVEMENT	SO YD	2088		2088								
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	677			677							
81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	87			87							
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	52			52							
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	326			326							
* SPECIALTY ITEMS													



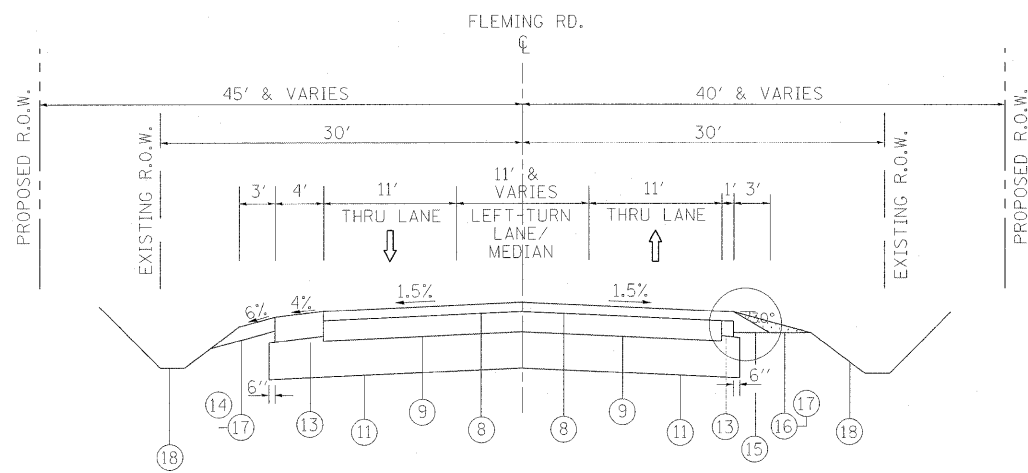
FLEMING ROAD
EXISTING TYPICAL SECTION
STA. 211+29 TO STA. 217+82.15



FLEMING ROAD
EXISTING TYPICAL SECTION
STA. 217+82.15 TO STA. 219+16.46 (RR)



SAFETY EDGE DETAIL
STA. 211+29 TO STA. 214+00

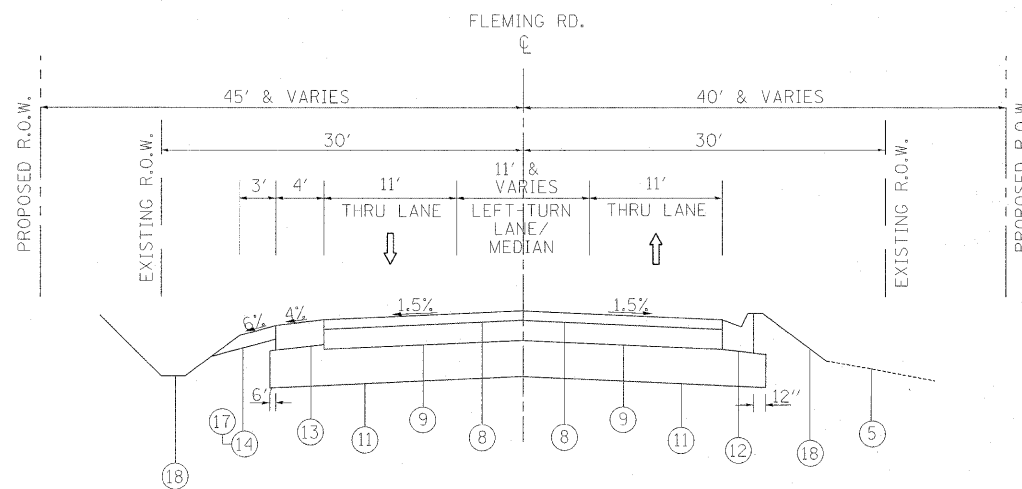


FLEMING ROAD
PROPOSED TYPICAL SECTION
STA. 211+29 TO STA. 217+82.15

NOTE:
STA. 211+29 TO STA. 217+82.15
4' HMA SHLD. & 3' AGG. SHLD.

NOTE:
STA. 211+29 TO STA. 214+00
1' HMA SHLD. & 3' AGG. SHLD.
STA. 214+00 TO STA. 217+82.15
4' HMA SHLD. & 3' AGG. SHLD.

NOTE: FOR FLEMING ROAD
4" PIPE UNDERDRAIN SHALL BE INSTALLED
TRANSVERSELY AT STATION 217+00 APPROXIMATELY.



FLEMING ROAD
PROPOSED TYPICAL SECTION
STA. 217+82.15 TO STA. 219+16.46 (RR)

NOTE:
STA. 217+82.15 TO STA. 219+16.15 (RR)
4' HMA SHLD. & 3' AGG. SHLD.

NOTE:
STA. 217+82.15 TO STA. 220+32
COMB. CONC. C&G, TYPE M-4.24

LEGEND

- ① EXISTING HMA PAVEMENT, ±6-1/4"
- ② EXISTING HMA PAVEMENT, ±4-1/2"
- ③ EXISTING PCC PAVEMENT, 9-1/4" & VARIES
- ④ EXISTING AGGREGATE SHOULDER, 6"
- ⑤ EXISTING GROUND SURFACE
- ⑥ PROPOSED PAVEMENT REMOVAL, 6-1/4"
- ⑦ PROPOSED HMA SURFACE REMOVAL, 2"
- ⑧ PROPOSED HMA SURFACE COURSE, MIX "D", N70, 2"
- ⑨ PROPOSED HMA BINDER COURSE, IL-19.0, N70, 7-3/4"
- ⑩ PROPOSED HMA BASE COURSE WIDENING, 10"
- ⑪ PROPOSED AGGREGATE SUBGRADE, 12"
- ⑫ PROPOSED COMB. CONC. CURB AND GUTTER, TYPE M-4.24
- ⑬ PROPOSED HMA SHOULDER, 8" (IN 2 LIFTS)
- ⑭ PROPOSED AGGREGATE SHOULDER, 6"
- ⑮ PROPOSED SAFETY EDGE
- ⑯ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- ⑰ PROPOSED GRADING AND SHAPING SHOULDERS
- ⑱ PROPOSED TOPSOIL FURNISH AND PLACE, 6"

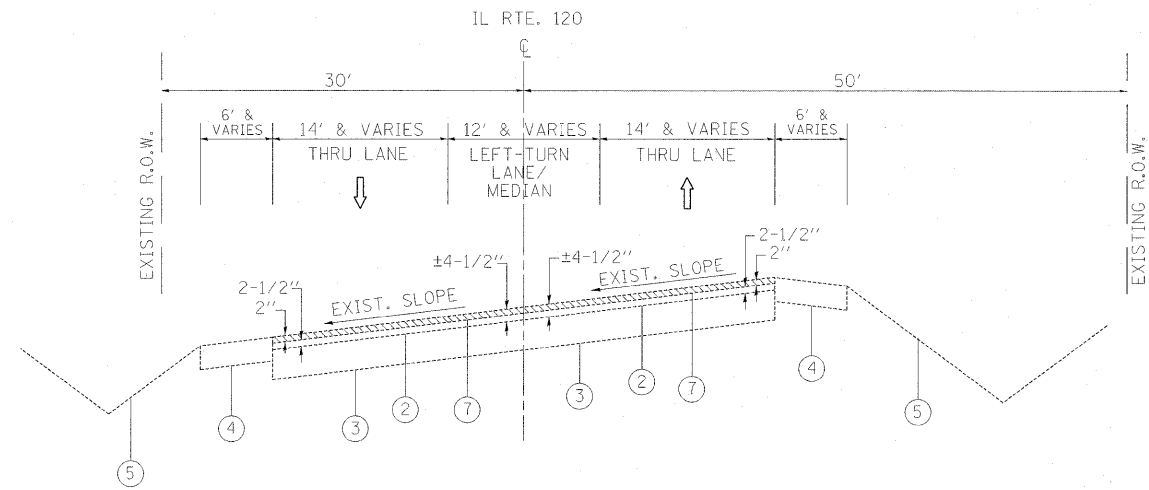
NOTE:

" THE CONTRACTOR SHALL MILL FIRST PRIOR TO PATCHING".

FLEMING ROAD: (PROPOSED PAVEMENT RECONSTRUCTION)

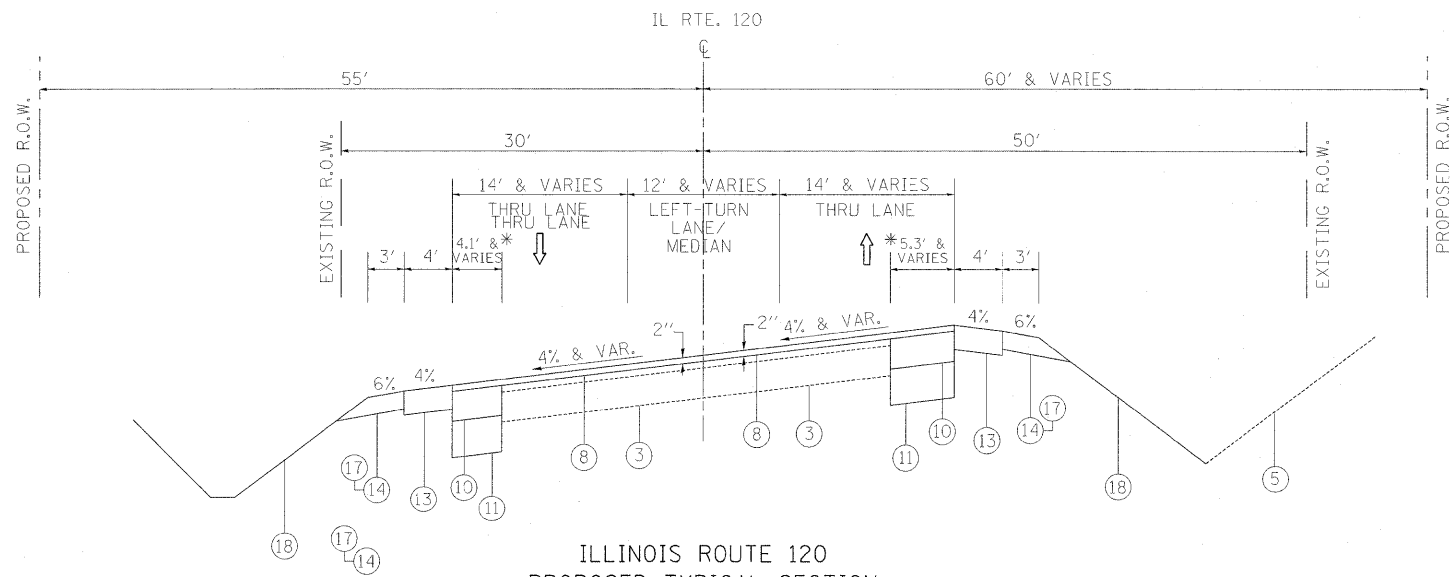
PROP. HMA SURF. CSE, MIX "D", N70, 2" & PROP. HMA BIND. CSE, IL-19, N70, 7-3/4" SHALL BE PAID AS HMA PAVEMENT FULL DEPTH, 9-3/4" IN SQUARE YARDS.

FILE NAME =	USER NAME = galbenjr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ILLINOIS ROUTE 120 AT FLEMING ROAD EXISTING AND PROPOSED TYPICAL SECTIONS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pw\work\p13dot1\galbenjr\d0107803\P113	07-Design.dgn	DRAWN -	REVISED -		333	15-N-6	MCHENRY	67	6			
PLOT SCALE = 50.000' / in.		CHECKED -	REVISED -		CONTRACT NO. 60L27							
PLOT DATE = 9/24/2011		DATE -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	



ILLINOIS ROUTE 120
EXISTING TYPICAL SECTION
STA. 123+00 TO STA. 137+40

PAVEMENT WIDENING PRESENT FROM STATION 130+27 TO STATION 137+40



ILLINOIS ROUTE 120
PROPOSED TYPICAL SECTION
STA. 123+00 TO STA. 137+40

* PAVEMENT WIDENING PRESENT FROM STATION 130+27 TO STATION 137+40

LEGEND

- ① EXISTING HMA PAVEMENT, ±6-1/4"
- ② EXISTING HMA PAVEMENT, ±4-1/2"
- ③ EXISTING PCC PAVEMENT, 9-1/4" & VARIES
- ④ EXISTING AGGREGATE SHOULDER, 6"
- ⑤ EXISTING GROUND SURFACE
- ⑥ PROPOSED PAVEMENT REMOVAL, 6-1/4"
- ⑦ PROPOSED HMA SURFACE REMOVAL, 2"
- ⑧ PROPOSED HMA SURFACE COURSE, MIX "D", N70, 2"
- ⑨ PROPOSED HMA BINDER COURSE, IL-19.0, N70, 7-3/4"
- ⑩ PROPOSED HMA BASE COURSE WIDENING, 10"
- ⑪ PROPOSED AGGREGATE SUBGRADE, 12"
- ⑫ PROPOSED COMB. CONC. CURB AND CUTTER, TYPE M-4.24
- ⑬ PROPOSED HMA SHOULDER, 8" (IN 2 LIFTS)
- ⑭ PROPOSED AGGREGATE SHOULDER, 6"
- ⑮ PROPOSED SAFETY EDGE
- ⑯ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- ⑰ PROPOSED GRADING AND SHAPING SHOULDERS
- ⑱ PROPOSED TOPSOIL FURNISH AND PLACE, 6"

NOTE:

" THE CONTRACTOR SHALL MILL FIRST PRIOR TO PATCHING".

FLEMING ROAD: (PROPOSED PAVEMENT RECONSTRUCTION)

PROP. HMA SURF. CSE, MIX "D", N70, 2" & PROP. HMA BIND. CSE, IL-19, N70, 7-3/4" SHALL BE PAID AS HMA PAVEMENT FULL DEPTH, 9-3/4" IN SQUARE YARDS.

NOTE: FOR IL RTE 120

4" PIPE UNDERDRAIN SHALL BE INSTALLED LONGITUDINALLY TO THE OUTSIDE EDGES OF THE WIDENING AREAS FROM STA. 134+00 TO STA. 135+00.

FILE NAME =	USER NAME = galbanjr
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PLOT SCALE = 50.000' / in.	CHECKED -
PLOT DATE = 9/24/2011	DATE -

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 120 AT FLEMING ROAD
EXISTING AND PROPOSED TYPICAL SECTIONS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	15-N-6	MCHENRY	67	7
CONTRACT NO. 60L27				
ILLINOIS FED. AID PROJECT				

EARTHWORK SCHEDULE (MCHENRY COUNTY)
FLEMING ROAD

① LOCATION	② EARTH EXCAVATION	③ EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	④ EMBANKMENT	⑤ EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
STATION	CUBIC YARD	CUBIC YARD	CUBIC YARD	CUBIC YARD
STA. 211+00 TO STA. 211+64.49	65.09	55.33	0.60	-54.73
STA. 211+64.49 TO STA. 211+82.31	103.21	87.72	0.93	+86.79
STA. 211+82.31 TO STA. 212+00	78.09	66.38	0.82	+65.56
STA. 212+00 TO STA. 213+00	232.56	197.68	19.10	+178.58
STA. 213+00 TO STA. 213+45.43	271.25	230.56	29.04	+201.52
STA. 213+45.43 TO STA. 214+00	177.69	151.04	27.19	+123.85
STA. 214+00 TO STA. 214+81.81	313.40	266.39	49.24	+217.15
STA. 214+81.81 TO STA. 215+00	273.49	232.47	37.62	+194.85
STA. 215+00 TO STA. 216+00	357.27	303.68	30.98	+272.70
STA. 216+00 TO STA. 216+74.50	565.63	480.79	45.25	+435.54
STA. 216+74.50 TO STA. 217+00	368.22	312.99	21.92	+291.07
STA. 217+00 TO STA. 217+13.40	150.05	127.54	2.85	+124.69
STA. 217+13.40 TO STA. 218+00	300.49	255.42	6.67	+248.75
STA. 218+00 TO STA. 219+00	587.09	499.03	21.24	+477.79
STA. 219+00 TO STA. 219+15.39	394.25	335.11	17.96	+317.15
STA. 219+15.39 TO STA. 219+37.06	116.33	98.88	6.15	+92.73
STA. 219+37.06 TO STA. 220+00	136.28	115.84	4.18	+111.66
TOTAL	4281.39	3816.85	321.74	+3495.11

COLUMN 1: LOCATION FROM PLAN

COLUMN 2: QUANTITY OF EARTH EXCAVATION (CUT) FROM CROSS SECTIONS

COLUMN 3: QUANTITY OF EARTH EXCAVATION (CUT) ADJUSTED FOR A SHRINKAGE FACTOR OF 15%

COLUMN 4: QUANTITY OF EMBANKMENT (FILL) FROM CROSS SECTIONS

COLUMN 5: (COLUMN 3 - COLUMN 4)

(+) = QUANTITY OF FURNISHED EXCAVATION NEEDED

(-) = QUANTITY TO BE WASTED

EARTHWORK SCHEDULE (MCHENRY COUNTY)
IL. RTE. 120

① LOCATION	② EARTH EXCAVATION	③ EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	④ EMBANKMENT	⑤ EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
STATION	CUBIC YARD	CUBIC YARD	CUBIC YARD	CUBIC YARD
STA. 121+00 TO STA. 122+00	48.15	40.93	0.00	+40.93
STA. 122+00 TO STA. 123+00	200.00	170.00	0.00	+170.00
STA. 123+00 TO STA. 124+00	293.52	249.49	2.78	+246.71
STA. 124+00 TO STA. 124+55.94	168.09	142.88	4.85	+138.03
STA. 124+55.94 TO STA. 125+00	64.36	54.71	2.48	+52.23
STA. 125+00 TO STA. 126+00	208.31	177.06	0.41	176.65
STA. 126+00 TO STA. 127+00	391.67	332.92	25.93	+306.99
STA. 127+00 TO STA. 127+42.76	270.40	229.84	38.20	+191.64
STA. 127+42.76 TO STA. 127+84.33	72.96	62.02	15.35	+46.67
STA. 127+84.33 TO STA. 128+00	38.22	32.49	4.39	+28.10
STA. 128+00 TO STA. 129+00	172.69	146.79	88.35	+58.44
STA. 129+00 TO STA. 130+00	338.89	288.06	193.52	+94.54
STA. 130+00 TO STA. 131+00	295.38	251.07	134.26	+116.81
STA. 131+00 TO STA. 132+00	200.00	170.00	58.35	+111.85
STA. 132+00 TO STA. 132+08.92	92.70	78.80	33.96	+44.84
STA. 132+08.92 TO STA. 133+00	48.43	41.17	35.44	+5.73
STA. 133+00 TO STA. 134+00	223.32	189.82	71.87	+117.87
STA. 134+00 TO STA. 135+00	321.30	273.10	65.75	+207.35
STA. 135+00 TO STA. 136+00	270.37	229.82	40.75	+189.07
STA. 136+00 TO STA. 137+00	201.85	171.57	24.08	+147.49
STA. 137+00 TO STA. 138+00	99.07	84.21	12.96	+71.25
TOTAL	4019.69	3416.87	853.68	+2563.19

COLUMN 1: LOCATION FROM PLAN

COLUMN 2: QUANTITY OF EARTH EXCAVATION (CUT) FROM CROSS SECTIONS

COLUMN 3: QUANTITY OF EARTH EXCAVATION (CUT) ADJUSTED FOR A SHRINKAGE FACTOR OF 15%

COLUMN 4: QUANTITY OF EMBANKMENT (FILL) FROM CROSS SECTIONS

COLUMN 5: (COLUMN 3 - COLUMN 4)

(+) = QUANTITY OF FURNISHED EXCAVATION NEEDED

(-) = QUANTITY TO BE WASTED

FILE NAME =	USER NAME = galbenjr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ILLINOIS ROUTE 120 AT FLEMING RD. SCHEDULE OF QUANTITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ci:\pw_work\pwidot\galbenjr\d0107803\PI13	07-Design.dgn	DRAWN -	REVISED -			333	15-N-6	MCHENRY	67	8	
	PLOT SCALE = 50,000' / in.	CHECKED -	REVISED -			CONTRACT NO. 60L27					
	PLOT DATE = 9/24/2011	DATE -	REVISED -			SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.

TREE REMOVAL SCHEDULE (McHENRY COUNTY)
FLEMING ROAD

LOCATION STATION	OFFSTET (FEET)	DESCRIPTION			REASON FOR REMOVAL
		CIRCUMFERENCE (INCH)	6 TO 15 UNITS	OVER 15 UNITS	
212+02.61	26.17 (RT)	22	7		DITCH
214+10.96	31.48 (RT)	56.55		18	DITCH
214+50.35	31.09 (RT)	37.70	12		DITCH
214+89.99	30.64 (RT)	43.98	14		DITCH
215+05.29	28.75 (RT)	87.96		28	DITCH
216+34.32	28.82 (RT)	94.24		30	DITCH
216+34.32	28.82 (RT)	94.24		30	DITCH
216+71.41	30.30 (RT)	94.24		30	DITCH
TOTAL			33	136	

TREE REMOVAL SCHEDULE (McHENRY COUNTY)
ILLINOIS 120

LOCATION STATION	OFFSTET (FEET)	DESCRIPTION			REASON FOR REMOVAL
		CIRCUMFERENCE (INCH)	6 TO 15 UNITS	OVER 15 UNITS	
127+14.79	30.30 (RT)	75.40		24	DITCH
127+90.18	34.02 (RT)	47.12	15		DITCH
127+92.76	36.62 (RT)	25.13	8		DITCH
127+94.42	33.85 (RT)	37.70	12		DITCH
TOTAL			35	24	

TREE PROTECTION SCHEDULE (McHENRY COUNTY)
FLEMING ROAD

LOCATION STATION	OFFSTET (FEET)	QUANTITY (EACH)	REASONS FOR PROTECTION
211+53.88	24.75 (RT)	1	OWNERS WANTS TO SAVE
211+53.75	23.45 (RT)	1	OWNER WANTS TO SAVE
215+68.43	33.92 (RT)	1	OWNER WANTS TO SAVE
215+68.43	33.92 (RT)	1	OWNER WANTS TO SAVE
215+68.43	33.92 (RT)	1	OWNER WANTS TO SAVE
TOTAL		5	

HOT-MIX ASPHALT MIXTURE REQUIREMENTS
THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT

MIXTURE USE	THICKNESS	AIR VOIDS (%) @ NDES
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FLEMING ROAD: RECONSTRUCTION

HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 9-3/4"		
HOT-MIX ASPHALT SURFACE COURSE MIX "D", N70 (IL-9.5mm)	2"	4% @ 70 Gyr.
HOT-MIX ASPHALT BINDER COURSE (IL-90, N70)	7-3/4"	4% @ 70 Gyr.

IL. RTE. 120: WIDENING

HOT-MIX ASPHALT SURFACE COURSE MIX "D", N70 (IL 9.5 mm)	2"	4% @ 70 Gyr.
HOT-MIX ASPHALT BASE COURSE WIDENING (HMA BINDER IL-19 mm)	10"	4% @ 70 Gyr.

IL. RTE. 120: RESURFACING

HOT-MIX ASPHALT SURFACE COURSE MIX "D", N70, (IL-9.5mm)	2"	4% @ 70 Gyr.
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SHOULDER:

HOT-MIX ASPHALT SHOULDER (HMA BINDER IL-19 mm)	8"	2% @ 30 Gyr.
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PRIVATE ENTRANCES: DRIVEWAYS

HOT-MIX ASPHALT SURFACE COURSE MIX "D", N50 (IL 9.5 mm)	2"	4% @ 50 Gyr.
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19mm)	6"	4% @ 50 Gyr.

TEMPORARY PAVEMENT

HOT-MIX ASPHALT SURFACE COURSE MIX "D", N50 (IL 9.5 mm)	3"	4% @ 50 Gyr.
TEMPORARY PAVEMENT (HMA BINDER IL-19mm)	6"	4% @ 50 Gyr.

HMA PATCHING

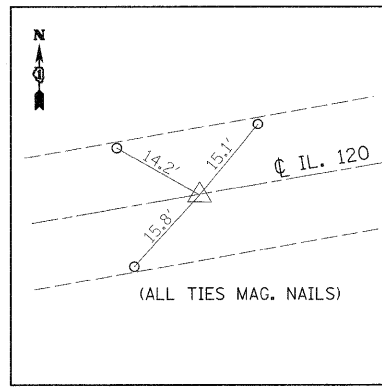
CLASS D PATCHES (HMA BINDER IL-19mm)	12"	4% @ 70 Gyr.
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NOTE:

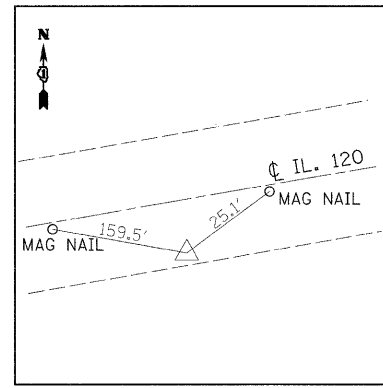
THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 POUNDS PER SQUARE YARD-INCH

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 70-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

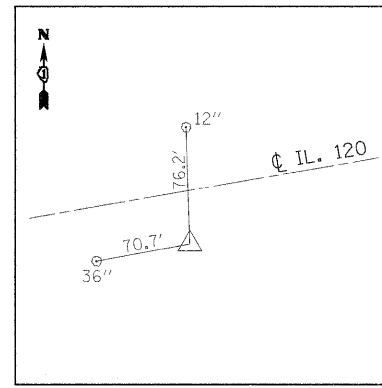
FOR "PERCENT RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.



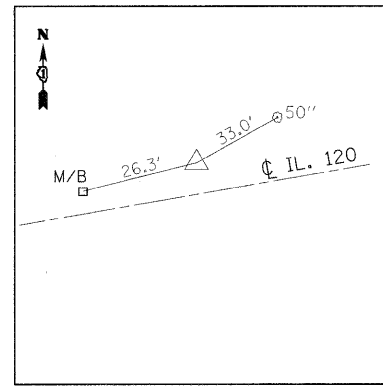
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MAG NAIL
STA. 100+00
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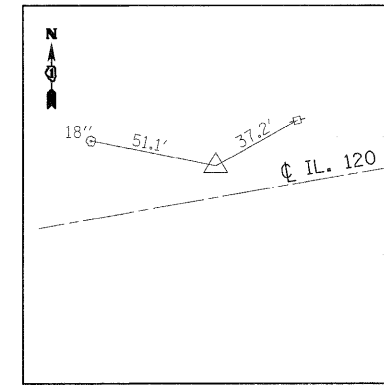
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I.R. W/CAP
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E 965040.0356



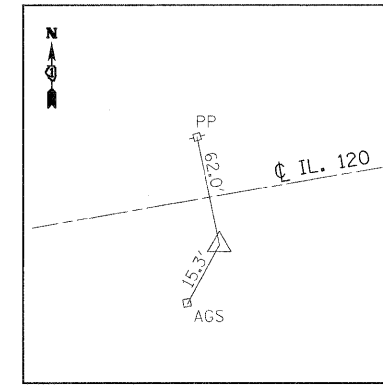
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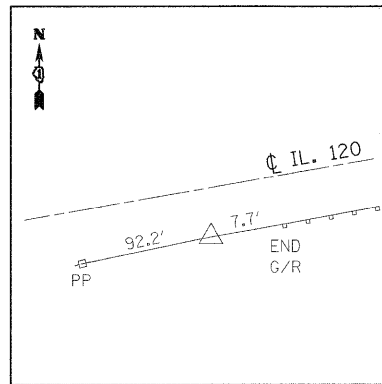
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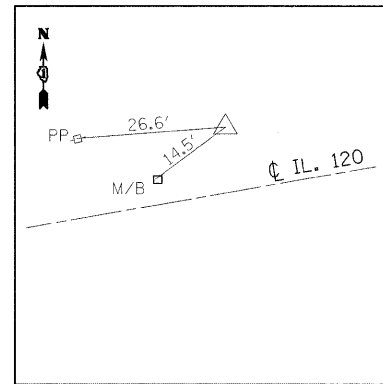
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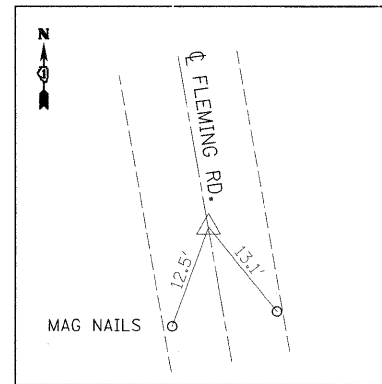
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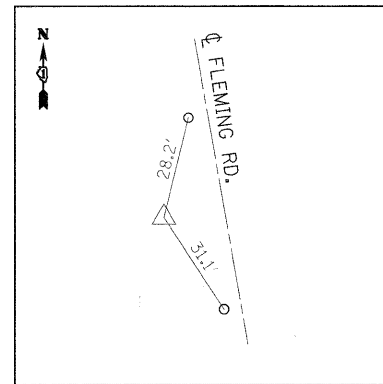
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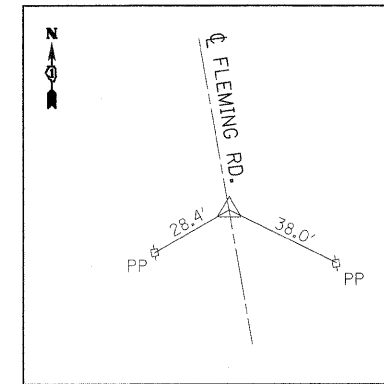
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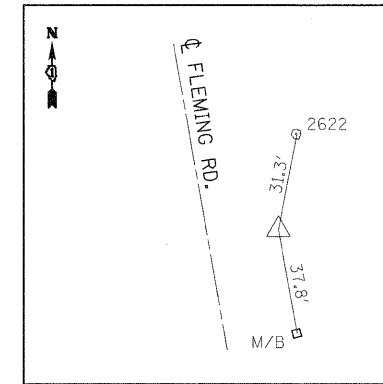
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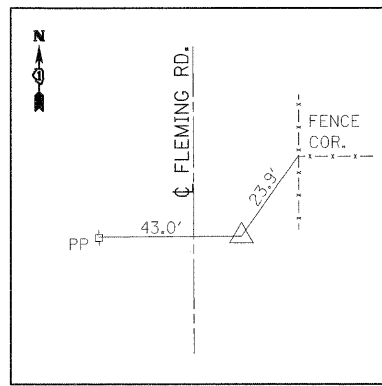
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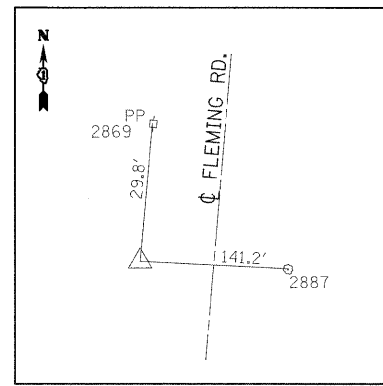
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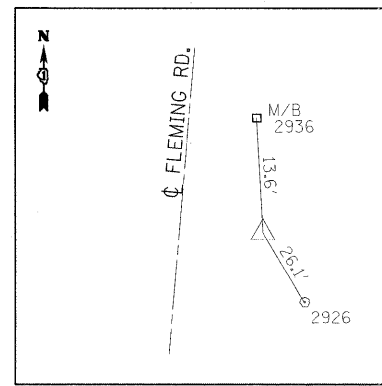
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E 966624.0622



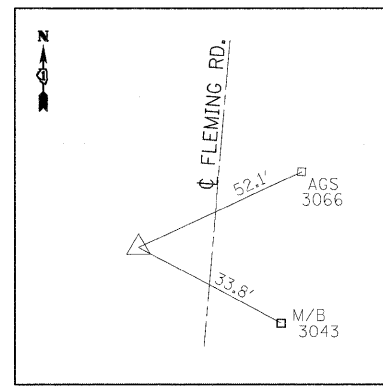
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I.R. W/CAP
N 2064264.5030
E 966579.3776



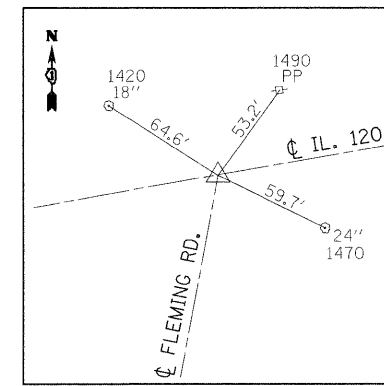
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MAG NAIL
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E 966551.2030



PT #12
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E 966607.5479



PT #13
I.R. W/CAP
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E 966594.7586

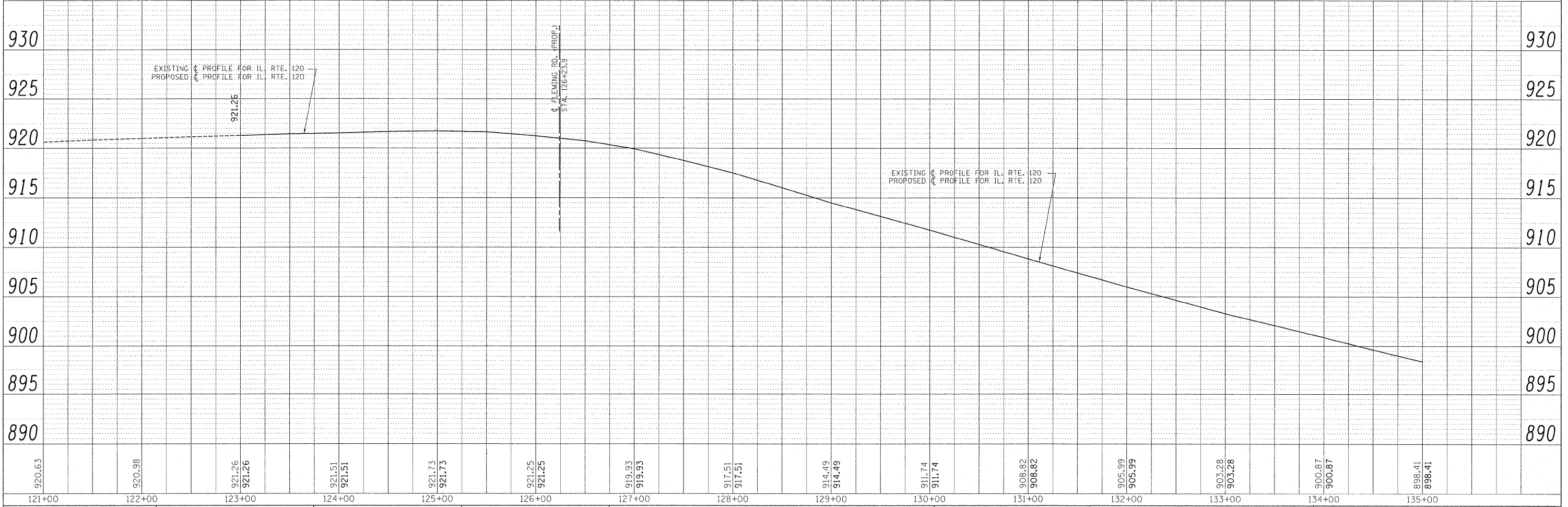
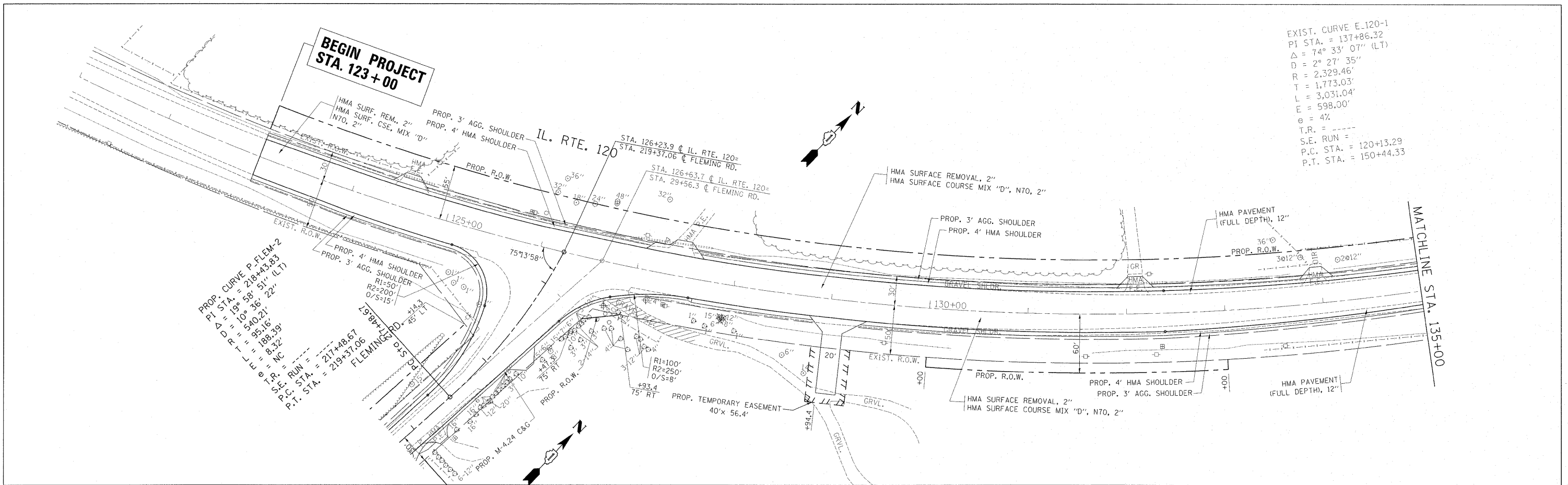


PT #103
C-C
N 2065245.6890
E 966626.8311

FILE	DATE
BY	
DESIGNED	
DRAWN	
CHECKED	
DATE	

FILE	DATE
BY	
DESIGNED	
DRAWN	
CHECKED	
DATE	

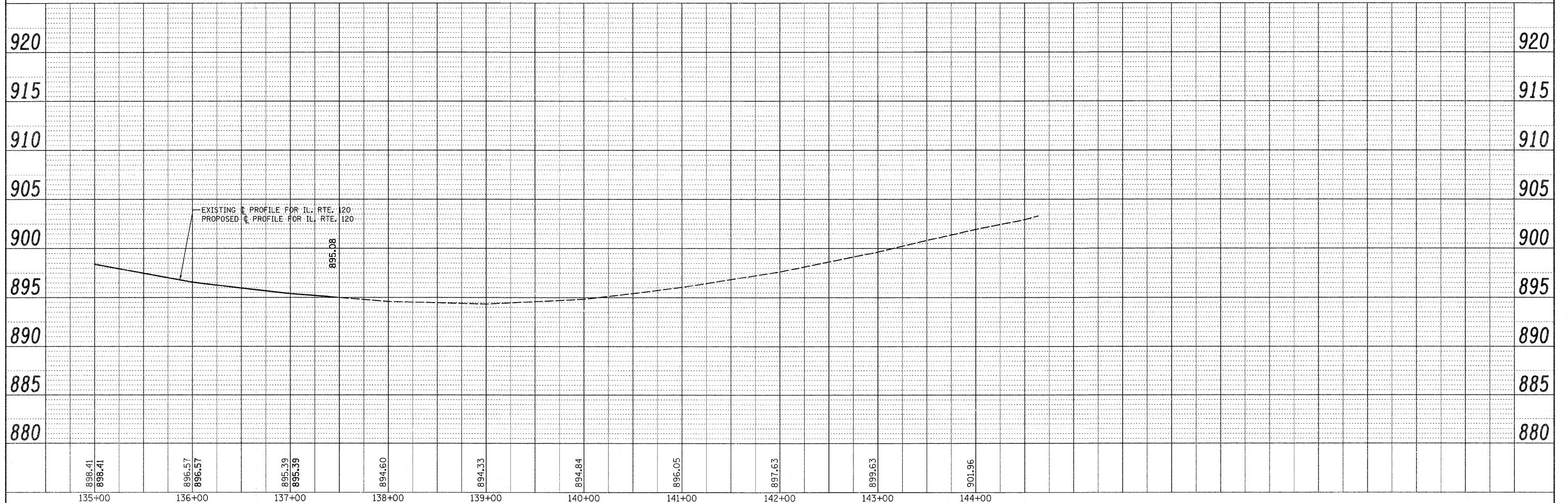
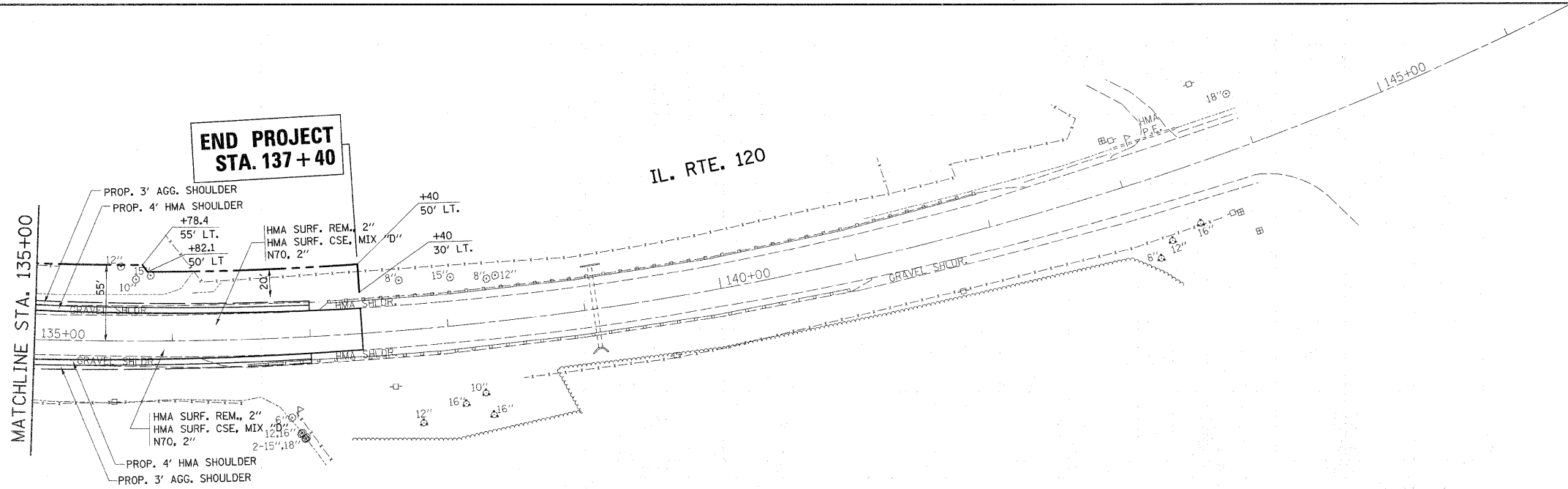
EXIST. CURVE E-120-1
 PI STA. = 137+86.32
 $\Delta = 74^\circ 33' 07''$ (LT)
 $D = 2^\circ 27' 35''$
 $R = 2,329.46'$
 $T = 1,773.03'$
 $L = 3,031.04'$
 $E = 598.00'$
 $e = 4\%$
 $T.R. =$
 $S.E. RUN =$
 $P.C. STA. = 120+13.29$
 $P.T. STA. = 150+44.33$



FILE NAME = P113707-sht-plnprf.dgn	USER NAME = galbanjr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY PLAN & PROFILE IL. ROUTE 120 FLEMING ROAD		F.A.P. RTE. = 333	SECTION = 15-N-6	COUNTY = MCHENRY	TOTAL SHEETS = 67	SHEET NO. = 12
PLOT SCALE = 50.0000' / 1"	PLOT DATE = 9/7/2011	DRAWN -	REVISED -		SCALE: 1"=50'	SHEET NO. OF SHEETS	STA. 123+00 TO STA. 135+00	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		CONTRACT NO. 60L27	
		CHECKED -	REVISED -								
		DATE -	REVISED -								

PLAN	SUBMITTED	DATE
	FILED	
	NOTED	
	CHECKED	
	BY	
	NO.	

FILE	SUBMITTED	DATE
	FILED	
	NOTED	
	CHECKED	
	BY	
	NO.	



FILE NAME = P113707-shr-plnpr-f.dgn

USER NAME = drivakosgn
 PLOT SCALE = 50.0000' / 1" IN.
 PLOT DATE = 7/27/2011

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

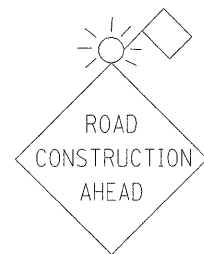
REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

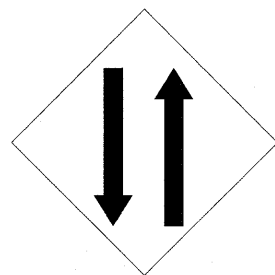
**ROADWAY PLAN & PROFILE
 IL. ROUTE 120
 FLEMING ROAD**

SCALE: 1"=50' SHEET NO. OF SHEETS STA. 135+00 TO STA. 137+40

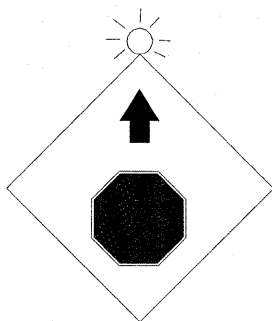
F.A.P. RTE. 333	SECTION 15-N-6	COUNTY MCHENRY	TOTAL SHEETS 67	SHEET NO. 14
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60L27	



①
W20-1
(48" X 48")



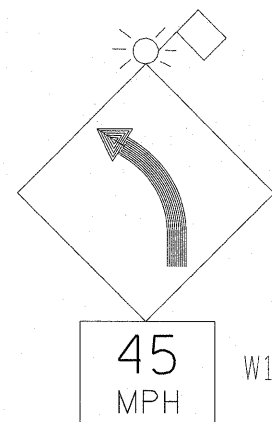
②
W6-3
(48" X 24")



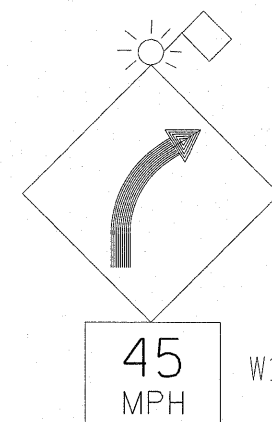
③
W3-1
(36" X 36")



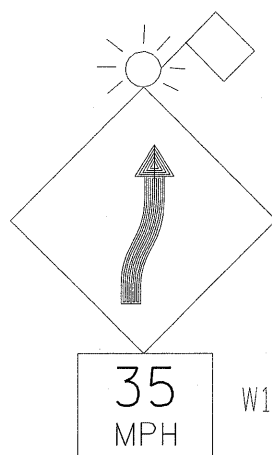
④
R1-1
(30" X 30")



⑤
W1-2
(30" X 30")
W13-1P
(18" X 18")

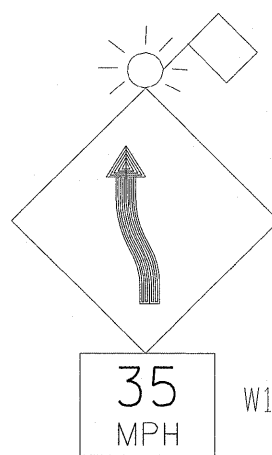


⑥
W1-2
(30" X 30")
W13-1P
(18" X 18")



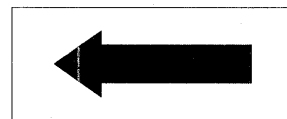
⑦
W1-4a R
(36" X 36")
W13-1P
(18" X 18")

W1-4a R

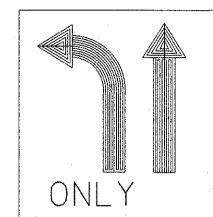


⑧
W1-4a L
(36" X 36")
W13-1P
(18" X 18")

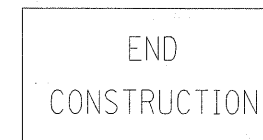
W1-4a L



⑨
W6-3(0)
(36" X 36")



⑩
R3-6b
(30" X 36")
LEFT TURN THRU STAGE



⑪
G20-2a
(60" X 24")

FILE NAME =	USER NAME = galbarjr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. ROUTE 120 FLEMING ROAD TRAFFIC CONTROL SIGNS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
ct:\pw\work\p\dot\galbarjr\d0107603\113707-Design.dgn		DRAWN -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	333	15-N-6	MCHENRY	67	15
PLOT SCALE = 50.000' / 1"		CHECKED -	REVISED -		CONTRACT NO. 60L27										
PLOT DATE = 9/30/2011		DATE -	REVISED -		ILLINOIS FED. AID PROJECT										




PRE-STAGE:

- ESTABLISH TRAFFIC CONTROL SIGNS, AND BARRICADES ON FLEMING ROAD AND IL ROUTE 120
- REMOVE EXISTING SHOULDER ON NORTHBOUND SIDE OF FLEMING ROAD FROM STATION 209+00 TO 219+17.
- INSTALL TEMPORARY PAVEMENT ON NORTHBOUND SIDE OF FLEMING ROAD FROM STATION 209+00 TO 219+17.

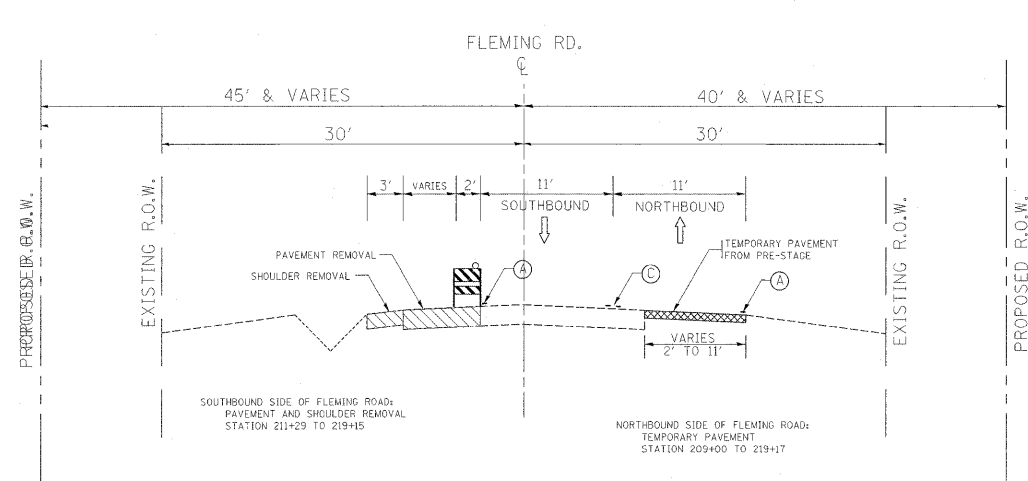
STAGE 1:

- ESTABLISH STAGE 1 TEMPORARY TRAFFIC CONTROL SIGNS, AND BARRICADES, ON IL ROUTE 120 AND FLEMING ROAD.
- REMOVE EXISTING PAVEMENT AND SHOULDER ON SOUTHBOUND SIDE OF FLEMING ROAD FROM STATION 211+29 TO 219+15.
- INSTALL NEW PAVEMENT WITH SUBGRADE ON SOUTHBOUND SIDE OF FLEMING ROAD FROM STATION 211+29 TO 219+15.
- INSTALL TEMPORARY PAVEMENT ON SOUTHBOUND SIDE OF FLEMING ROAD FROM STATION 209+00 TO 218+12.4
- INSTALL NEW SHOULDER ON THE EASTBOUND LANE OF IL ROUTE 120 WEST OF FLEMING ROAD.
- PERFORM DITCH IMPROVEMENT WORK ON EASTBOUND SIDE OF IL ROUTE 120 WEST OF FLEMING ROAD.

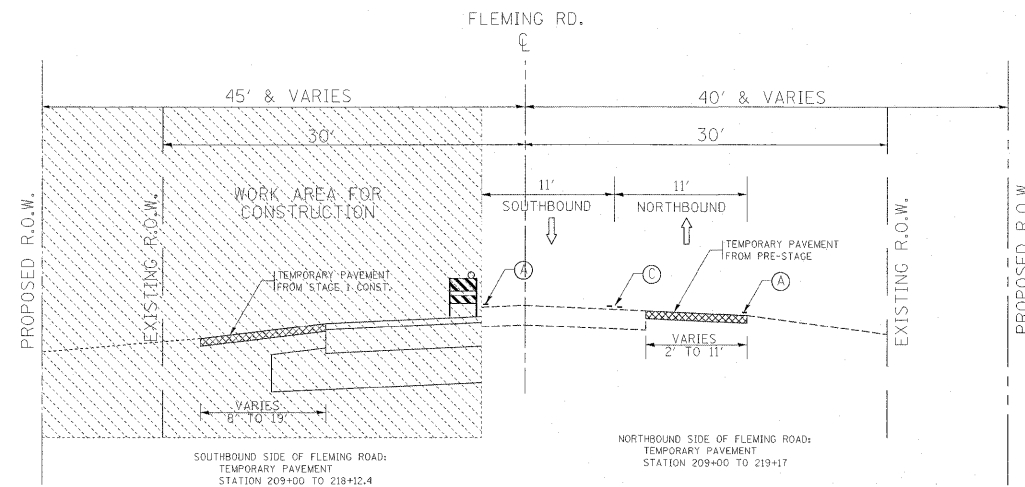
LEGEND:

- (A) TEMPORARY PAVEMENT MARKING, TYPE III
4" SOLID WHITE EDGE LINE
- (B) TEMPORARY PAVEMENT MARKING, TYPE III
4" SOLID SINGLE YELLOW
- (C) TEMPORARY PAVEMENT MARKING, TYPE III
4" SOLID DOUBLE YELLOW
-  WORK ZONE
-  TEMPORARY PAVEMENT, 9"
-  PAVEMENT AND SHOULDER REMOVAL

NOTE:
"PCC TEMPORARY PAVEMENT SHALL CONSIST OF CLASS PV CONCRETE MEETING THE REQUIREMENTS OF ART. 1020 OF THE STANDARD SPECIFICATIONS".



FLEMING ROAD
STAGE 1 REMOVALS
STA 211+29 TO 219+15

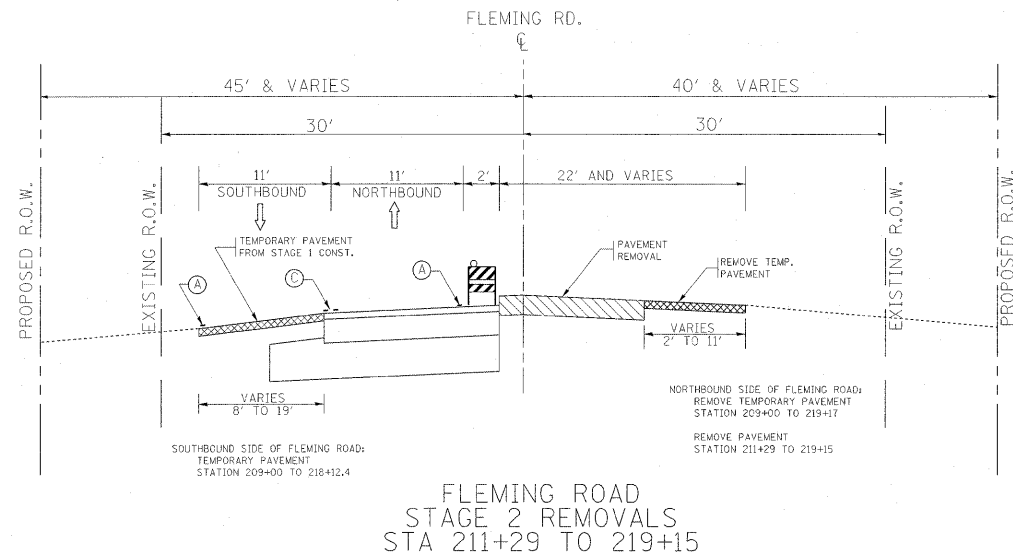


FLEMING ROAD
STAGE 1 CONSTRUCTION
STA 211+29 TO 219+15

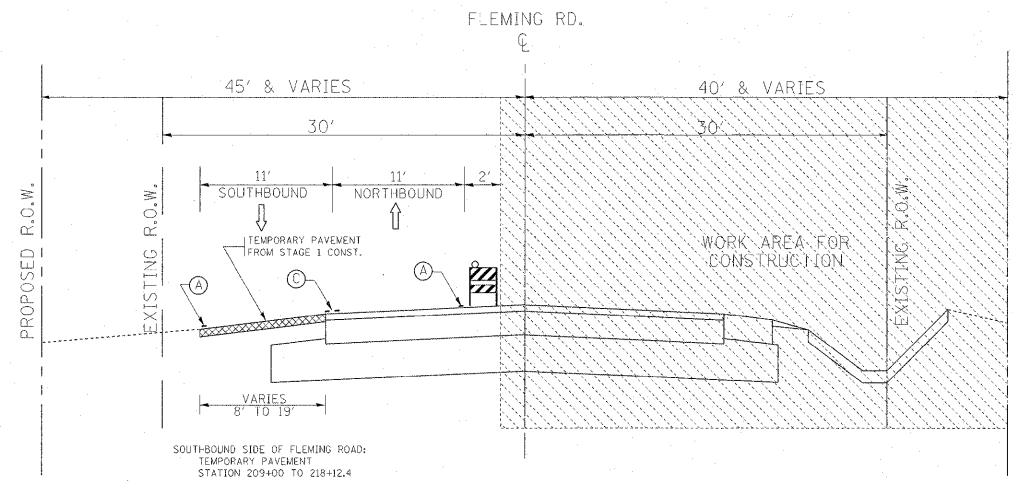
FILE NAME =	USER NAME = galbanjr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGING DESCRIPTION AND TYPICAL SECTIONS FOR MAINTANCE OF TRAFFIC				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pw_work\pwidot\galbanjr\d0107803\PI13	07-Design.dgn	DRAWN -	REVISED -		333	15-N-6	MCHENRY	67	16				
	PLOT SCALE = 50.000 / / in.	CHECKED -	REVISED -		CONTRACT NO. 60L27								
	PLOT DATE = 9/24/2011	DATE -	REVISED -		ILLINOIS FED. AID PROJECT								
				SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.				

STAGE 2:

- CHANGE TEMPORARY TRAFFIC CONTROL STAGING FROM STAGE 1 CONFIGURATION TO STAGE 2 CONFIGURATION.
- REMOVE TEMPORARY PAVEMENT ON NORHTBOUND SIDE OF FLEMING ROAD FROM STATION 209+00 TO 219+17.
- REMOVE EXISTING PAVEMENT ON NORHTBOUND SIDE OF FLEMING ROAD FROM STATION 211+29 TO 219+15.
- INSTALL NEW PAVEMENT AND SHOULDER/CURB AND GUTTER WITH SUBGRADE ON NORTHBOUND SIDE OF FLEMING ROAD FROM STATION 211+29 TO 219+15.
- PERFORM PAVEMENT WIDENING OPERATION AND DITCH IMPROVEMENT WORK ON EASTBOUND SIDE OF IL ROUTE 120 EAST OF FLEMING ROAD.



FLEMING ROAD
STAGE 2 REMOVALS
STA 211+29 TO 219+15



FLEMING ROAD
STAGE 2 CONSTRUCTION
STA 211+29 TO 219+15

STAGE 2A:

- REMOVE TEMPORARY PAVEMENT ON SOUTHBOUND SIDE OF FLEMING ROAD.
- INSTALL NEW SHOULDER ON SOUTHBOUND SIDE OF FLEMING ROAD.
- PERFORM DITCH IMPROVEMENT WORK OF SOUTHBOUND SIDE OF FLEMING ROAD.

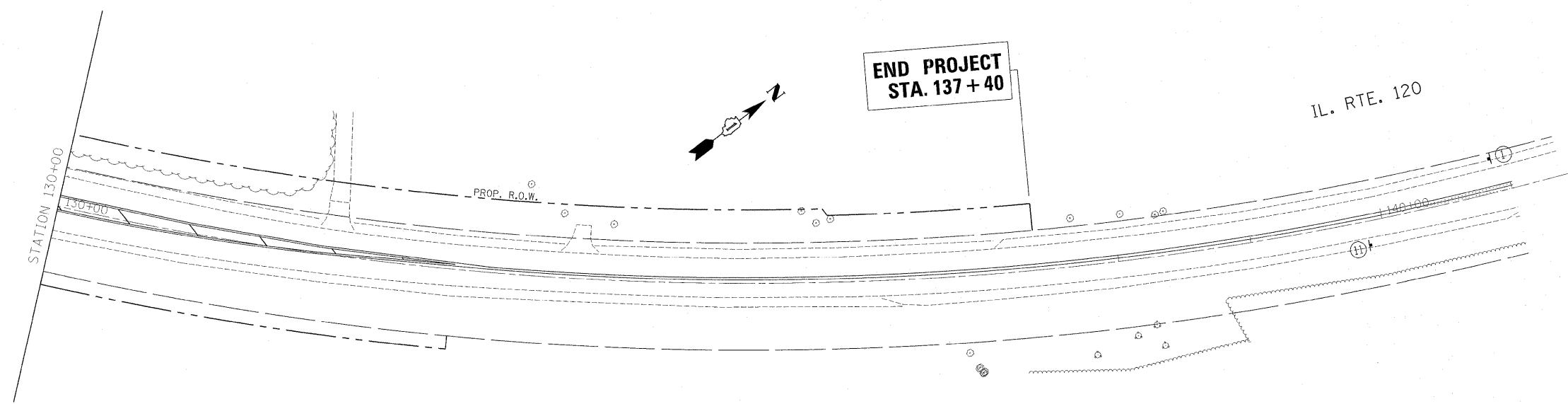
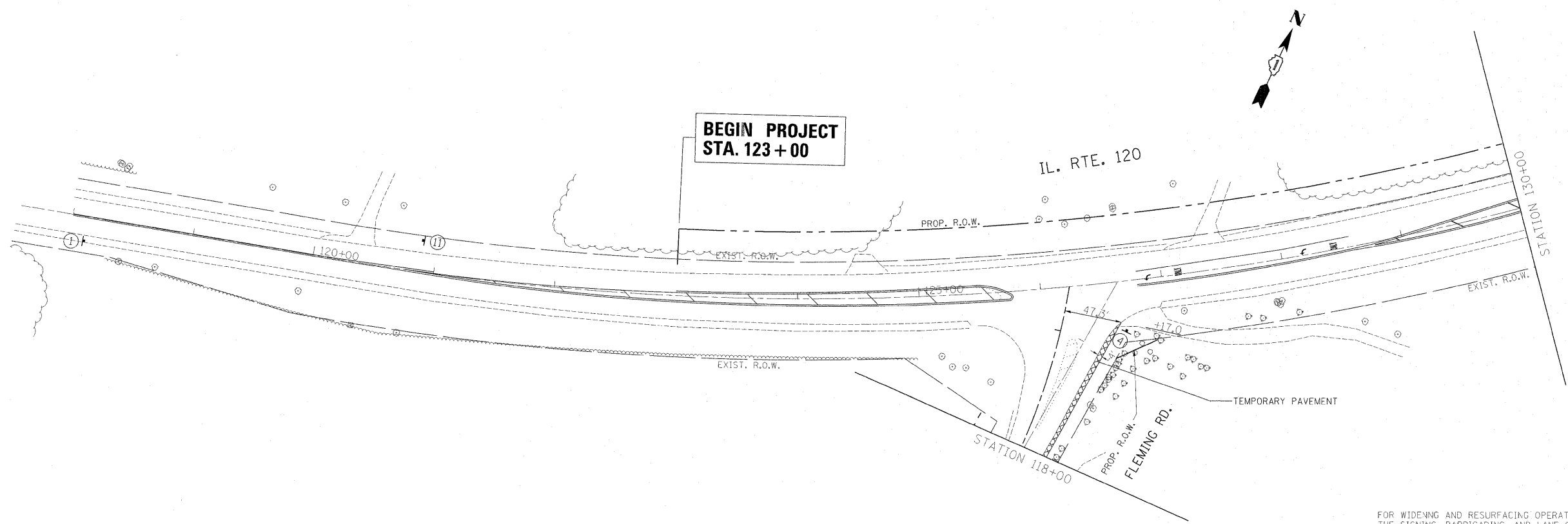
STAGE 3:

- CHANGE TEMPORARY TRAFFIC CONTROL STAGING FROM STAGE 2 TO STAGE 3 CONFIGURATION.
- PERFORM PAVEMENT WIDENING OPERATION AND DITCH IMPROVEMENT WORK ON WESTBOUND SIDE OF IL. RTE. 120
- INSTALL NEW SHOULDER ON WESTBOUND SIDE OF IL ROUTE 120 FROM STA. 123+00 TO STA. 130+00.
- RESTORE DISTURBED LOCATIONS OUTSIDE OF THE PROJECT LIMITS.
- RESURFACE IL ROUTE 120 AND PLACE PERMANENT STRIPING OVER ENTIRE SITE.

LEGEND:

- (A) TEMPORARY PAVEMENT MARKING, TYPE III
4" SOLID WHITE EDGE LINE
- (B) TEMPORARY PAVEMENT MARKING, TYPE III
4" SOLID SINGLE YELLOW
- (C) TEMPORARY PAVEMENT MARKING, TYPE III
4" SOLID DOUBLE YELLOW
- [Hatched Box] WORK ZONE
- [Cross-hatched Box] TEMPORARY PAVEMENT, 9"
- [Diagonal Line Box] PAVEMENT AND SHOULDER REMOVAL

FILE NAME =	USER NAME = galbanjr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGING DESCRIPTION AND TYPICAL SECTIONS FOR MAINTANCE OF TRAFFIC				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
st:\pw_work\puidot\galbanjr\d0107603\1113	07-Design.dgn	DRAWN -	REVISED -		333	15-N-6	MCHENRY	67	17				
PLOT SCALE = 50.000' / 1" =		CHECKED -	REVISED -		CONTRACT NO. 60L27								
PLOT DATE = 9/24/2011		DATE -	REVISED -		ILLINOIS FED. AID PROJECT								
				SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.				



FOR WIDENING AND RESURFACING OPERATIONS THE SIGNING, BARRICADING, AND LANE CLOSURE SHALL BE IN ACCORDANCE WITH STANDARD 701201 IN ADDITION TO THE SIGNS SHOWN.

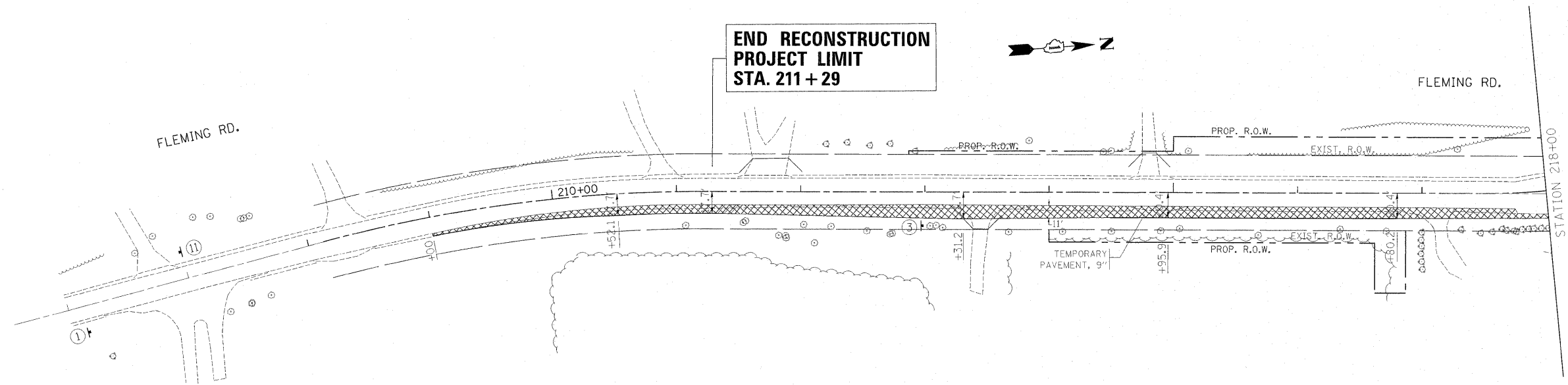
FLEMING ROAD RECONSTRUCTION:
FROM STATION 211+29 TO STATION 219+15

LEGEND:

- Ⓐ TEMPORARY PAVEMENT MARKING, TYPE III
4" SOLID WHITE EDGE LINE
- Ⓑ TEMPORARY PAVEMENT MARKING, TYPE III
4" SOLID SINGLE YELLOW
- Ⓒ TEMPORARY PAVEMENT MARKING, TYPE III
4" SOLID DOUBLE YELLOW
- Ⓓ TEMPORARY PAVEMENT MARKING, TYPE III
8" SOLID WHITE LINE
- Ⓔ TEMPORARY PAVEMENT MARKING, TYPE III
12" SOLID WHITE 45 DEGREE DIAGONALS
AT 10' OR LESS SPACING
- Ⓕ TEMPORARY PAVEMENT MARKING, TYPE III
12" SOLID YELLOW 45 DEGREE DIAGONALS
AT LEAST 5 LINES EQUALLY SPACED
- Ⓖ TEMPORARY PAVEMENT MARKING, TYPE III
24" SOLID WHITE (STOP BAR)
- Ⓚ BARRICADE TYPE I OR TYPE II OR REFLECTORIZED DRUM
OR VERTICAL PANEL WITH ONE BURN LIGHT.
- Ⓛ TYPE III BARRICADE WITH 2 LIGHTS ONE SYMBOL
REPRESENTS ANY NUMBER OF BARRICADES REQUIRED
TO ADEQUATELY PROTECT THE AREA SHOWN.
- Ⓜ CONSTRUCTION SIGN AND REFERENCE NUMBER
(REFER TO SIGN DETAIL LEGEND SHEET)
- ↑ TRAFFIC LANE

FOR WIDENING AND RESURFACING OPERATIONS THE SIGNING, BARRICADING, AND LANE CLOSURE SHALL BE IN ACCORDANCE WITH STANDARD 701201 IN ADDITION TO THE SIGNS SHOWN.

FILE NAME =	USER NAME = gelbenjr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. ROUTE 120 FLEMING ROAD SUGGESTED STAGING & TRAFFIC CONTROL PLAN, PRE-STAGE			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ci:\pw_work\p\midot\gelbenjr\d0107603\P113	87-Design.dgn	DRAWN -	REVISED -		333	15-N-6	MCHENRY	67	18			
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	PLOT DATE = 9/30/2011	DATE -	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		



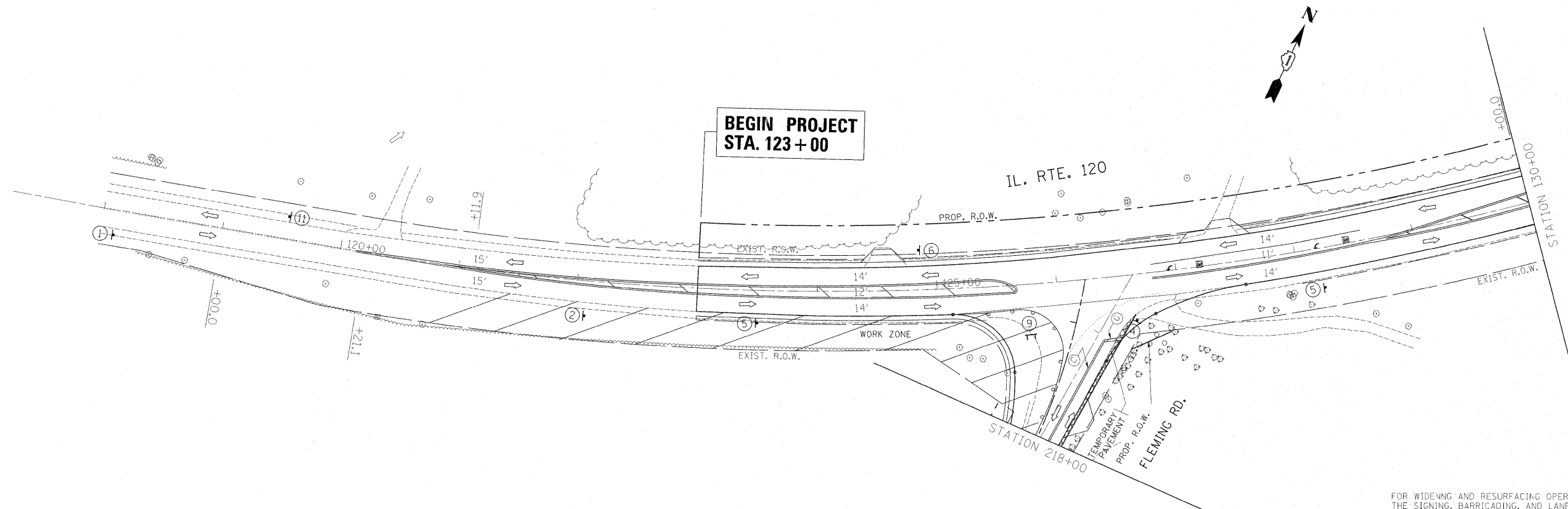
FOR WIDENING AND RESURFACING OPERATIONS THE SIGNING, BARRICADING, AND LANE CLOSURE SHALL BE IN ACCORDANCE WITH STANDARD 701201 IN ADDITION TO THE SIGNS SHOWN.

FLEMING ROAD RECONSTRUCTION:
FROM STATION 211+29 TO STATION 219+15

LEGEND:

- Ⓐ TEMPORARY PAVEMENT MARKING, TYPE III
4" SOLID WHITE EDGE LINE
- Ⓑ TEMPORARY PAVEMENT MARKING, TYPE III
4" SOLID SINGLE YELLOW
- Ⓒ TEMPORARY PAVEMENT MARKING, TYPE III
4" SOLID DOUBLE YELLOW
- Ⓓ TEMPORARY PAVEMENT MARKING, TYPE III
8" SOLID WHITE LINE
- Ⓔ TEMPORARY PAVEMENT MARKING, TYPE III
12" SOLID WHITE 45 DEGREE DIAGONALS
AT 10' OR LESS SPACING
- Ⓕ TEMPORARY PAVEMENT MARKING, TYPE III
12" SOLID YELLOW 45 DEGREE DIAGONALS
AT LEAST 5 LINES EQUALLY SPACED
- Ⓖ TEMPORARY PAVEMENT MARKING, TYPE III
24" SOLID WHITE (STOP BAR)
- BARRICADE TYPE I OR TYPE II OR REFLECTORIZED DRUM
OR VERTICAL PANEL WITH ONE BURN LIGHT.
- ⌚ TYPE III BARRICADE WITH 2 LIGHTS ONE SYMBOL
REPRESENTS ANY NUMBER OF BARRICADES REQUIRED
TO ADEQUATELY PROTECT THE AREA SHOWN.
- ⓪ CONSTRUCTION SIGN AND REFERENCE NUMBER
(REFER TO SIGN DETAIL LEGEND SHEET)
- ↑ TRAFFIC LANE

FILE NAME =	USER NAME = galbanjr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. ROUTE 120 FLEMING ROAD SUGGESTED STAGING & TRAFFIC CONTROL PLAN, PRE-STAGE	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pw\work\p\dot\galbanjr\d0107883\PI113	07-Design.dgn	DRAWN -	REVISED -			333	15-N-6	MCHENRY	67	19
PLOT SCALE = 50,000' / in.		CHECKED -	REVISED -			SCALE: SHEET NO. OF SHEETS STA. TO STA.		CONTRACT NO. 60L27		
PLOT DATE = 9/30/2011		DATE -	REVISED -			ILLINOIS FED. AID PROJECT				



**BEGIN PROJECT
STA. 123 + 00**

IL. RTE. 120

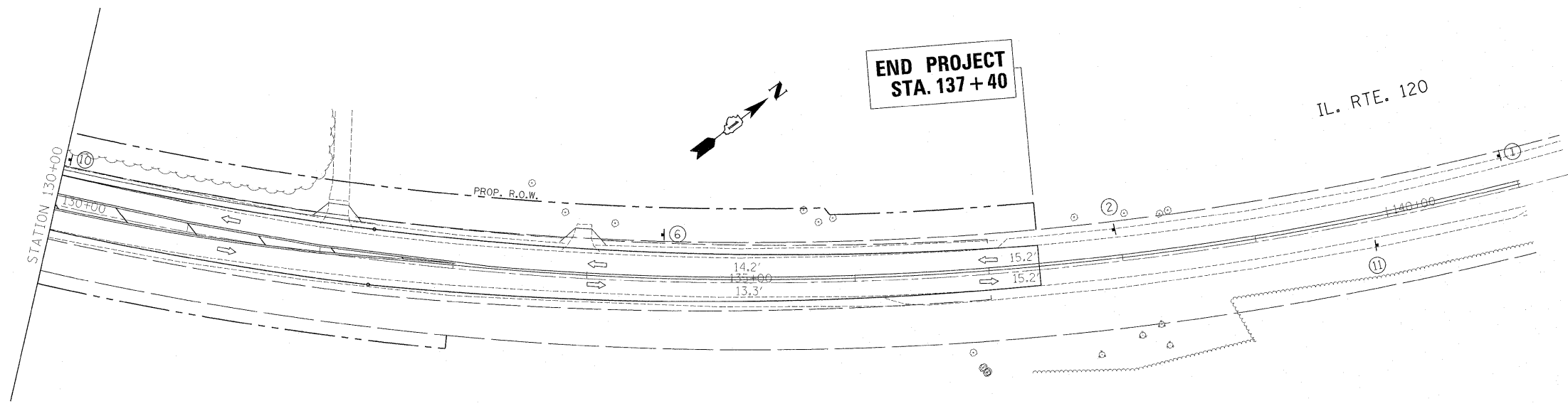
WORK ZONE

STATION 218+00

FLEMING RD.

FOR WIDENING AND RESURFACING OPERATIONS
THE SIGNING, BARRICADING, AND LANE CLOSURE
SHALL BE IN ACCORDANCE WITH STANDARD 701201
IN ADDITION TO THE SIGNS SHOWN.

FLEMING ROAD RECONSTRUCTION:
FROM STATION 211+29 TO STATION 219+15



**END PROJECT
STA. 137 + 40**

IL. RTE. 120

LEGEND:

- (A) TEMPORARY PAVEMENT MARKING, TYPE III
4" SOLID WHITE EDGE LINE
- (B) TEMPORARY PAVEMENT MARKING, TYPE III
4" SOLID SINGLE YELLOW
- (C) TEMPORARY PAVEMENT MARKING, TYPE III
4" SOLID DOUBLE YELLOW
- (D) TEMPORARY PAVEMENT MARKING, TYPE III
8" SOLID WHITE LINE
- (E) TEMPORARY PAVEMENT MARKING, TYPE III
12" SOLID WHITE 45 DEGREE DIAGONALS
AT 10' OR LESS SPACING
- (F) TEMPORARY PAVEMENT MARKING, TYPE III
12" SOLID YELLOW 45 DEGREE DIAGONALS
AT LEAST 5 LINES EQUALLY SPACED
- (G) TEMPORARY PAVEMENT MARKING, TYPE III
24" SOLID WHITE (STOP BAR)
- BARRICADE TYPE I OR TYPE II OR REFLECTORIZED DRUM
OR VERTICAL PANEL WITH ONE BURN LIGHT.
- ⊥ TYPE III BARRICADE WITH 2 LIGHTS ONE SYMBOL
REPRESENTS ANY NUMBER OF BARRICADES REQUIRED
TO ADEQUATELY PROTECT THE AREA SHOWN.
- + CONSTRUCTION SIGN AND REFERENCE NUMBER
(REFER TO SIGN DETAIL LEGEND SHEET)
- ↑ TRAFFIC LANE

FOR WIDENING AND RESURFACING OPERATIONS
THE SIGNING, BARRICADING, AND LANE CLOSURE
SHALL BE IN ACCORDANCE WITH STANDARD 701201
IN ADDITION TO THE SIGNS SHOWN.

FILE NAME =
c:\pw_work\pwidet\galbanjr\d0107803\p113

USER NAME = galbanjr
07-Design.dgn
PLOT SCALE = 50.000' / in.
PLOT DATE = 9/30/2011

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

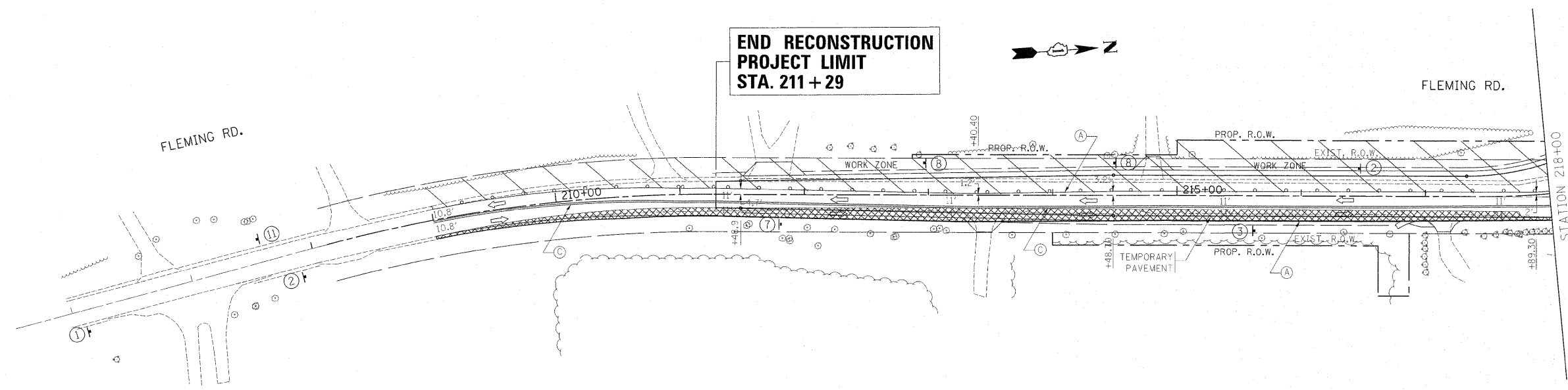
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL. ROUTE 120 FLEMING ROAD
SUGGESTED STAGING & TRAFFIC CONTROL PLAN, STAGE 1**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	15-N-6	MCHENRY	67	20
CONTRACT NO. 60L27				

ILLINOIS FED. AID PROJECT



FOR WIDENING AND RESURFACING OPERATIONS
THE SIGNING, BARRICADING, AND LANE CLOSURE
SHALL BE IN ACCORDANCE WITH STANDARD 701201
IN ADDITION TO THE SIGNS SHOWN.

FLEMING ROAD RECONSTRUCTION;
FROM STATION 211+29 TO STATION 219+15

LEGEND:

- (A) TEMPORARY PAVEMENT MARKING, TYPE III
4" SOLID WHITE EDGE LINE
- (B) TEMPORARY PAVEMENT MARKING, TYPE III
4" SOLID SINGLE YELLOW
- (C) TEMPORARY PAVEMENT MARKING, TYPE III
4" SOLID DOUBLE YELLOW
- (D) TEMPORARY PAVEMENT MARKING, TYPE III
8" SOLID WHITE LINE
- (E) TEMPORARY PAVEMENT MARKING, TYPE III
12" SOLID WHITE 45 DEGREE DIAGONALS
AT 10' OR LESS SPACING
- (F) TEMPORARY PAVEMENT MARKING, TYPE III
12" SOLID YELLOW 45 DEGREE DIAGONALS
AT LEAST 5 LINES EQUALLY SPACED
- (G) TEMPORARY PAVEMENT MARKING, TYPE III
24" SOLID WHITE (STOP BAR)
- BARRICADE TYPE I OR TYPE II OR REFLECTORIZED DRUM
OR VERTICAL PANEL WITH ONE BURN LIGHT.
- ⊥ TYPE III BARRICADE WITH 2 LIGHTS ONE SYMBOL
REPRESENTS ANY NUMBER OF BARRICADES REQUIRED
TO ADEQUATELY PROTECT THE AREA SHOWN.
- + COSNTRUCTION SIGN AND REFERENCE NUMBER
(REFER TO SIGN DETAIL LEGEND SHEET)
- ↑ TRAFFIC LANE

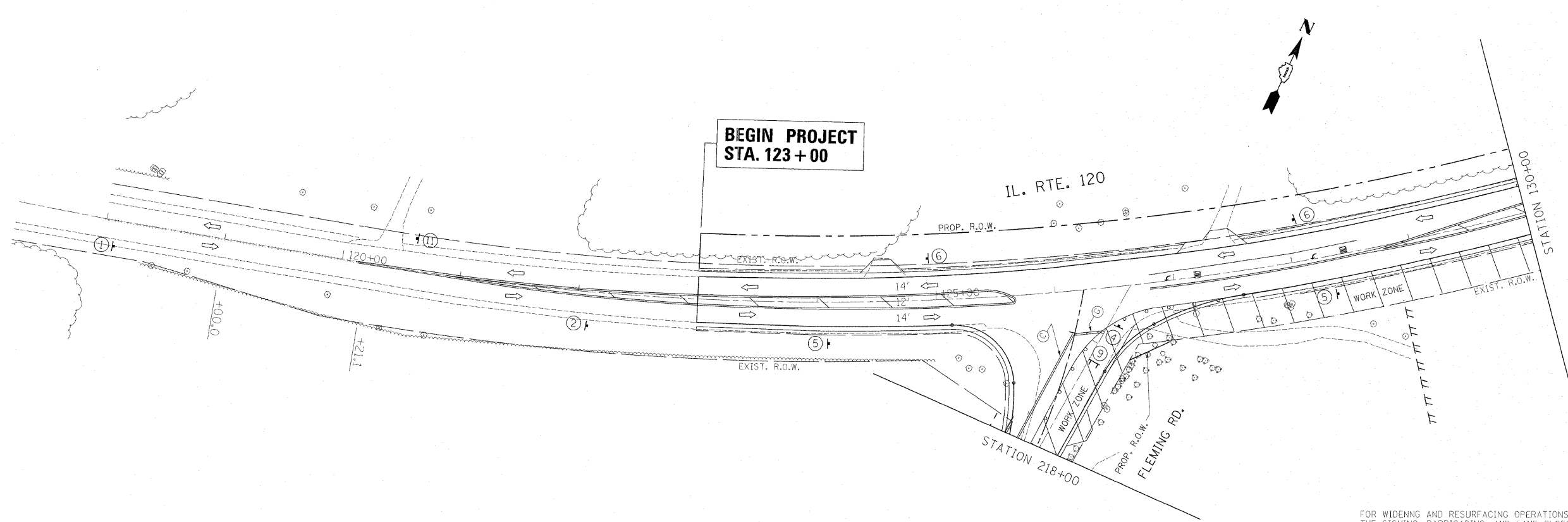
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c:\pwwork\pwwork\galbarjr\d0107803\p113707-Design.dgn		DRAWN -	REVISED -
PLOT SCALE = 50.000 / / in.		CHECKED -	REVISED -
PLOT DATE = 9/30/2011		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL. ROUTE 120 FLEMING ROAD
SUGGESTED STAGING & TRAFFIC CONTROL PLAN, STAGE 1**

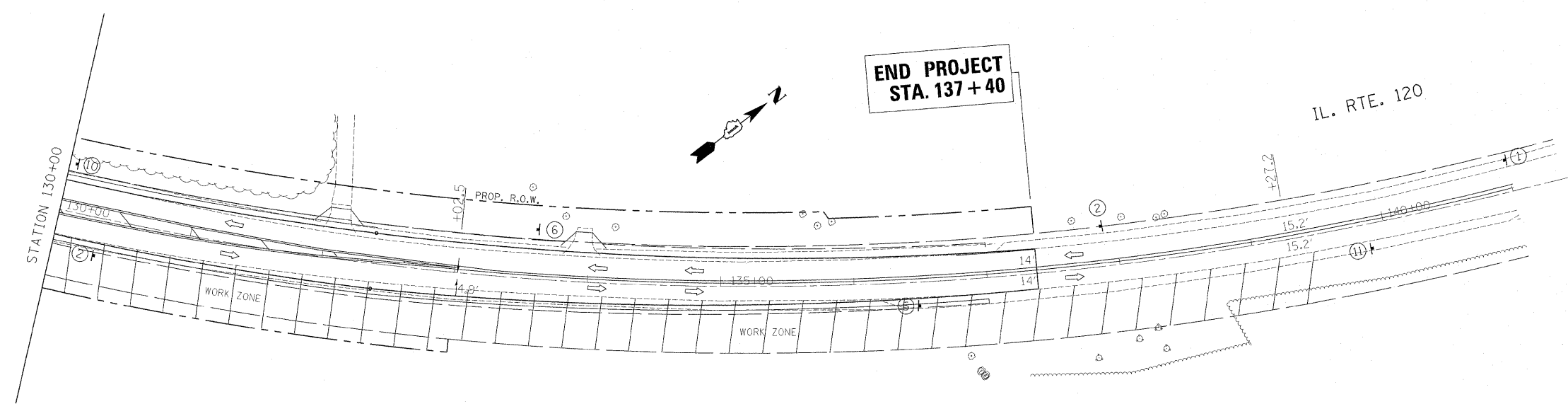
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE. 333	SECTION 15-N-6	COUNTY MCHENRY	TOTAL SHEETS 67	SHEET NO. 21
CONTRACT NO. 60L27				
ILLINOIS FED. AID PROJECT				



FOR WIDENING AND RESURFACING OPERATIONS THE SIGNING, BARRICADING, AND LANE CLOSURE SHALL BE IN ACCORDANCE WITH STANDARD 701201 IN ADDITION TO THE SIGNS SHOWN.

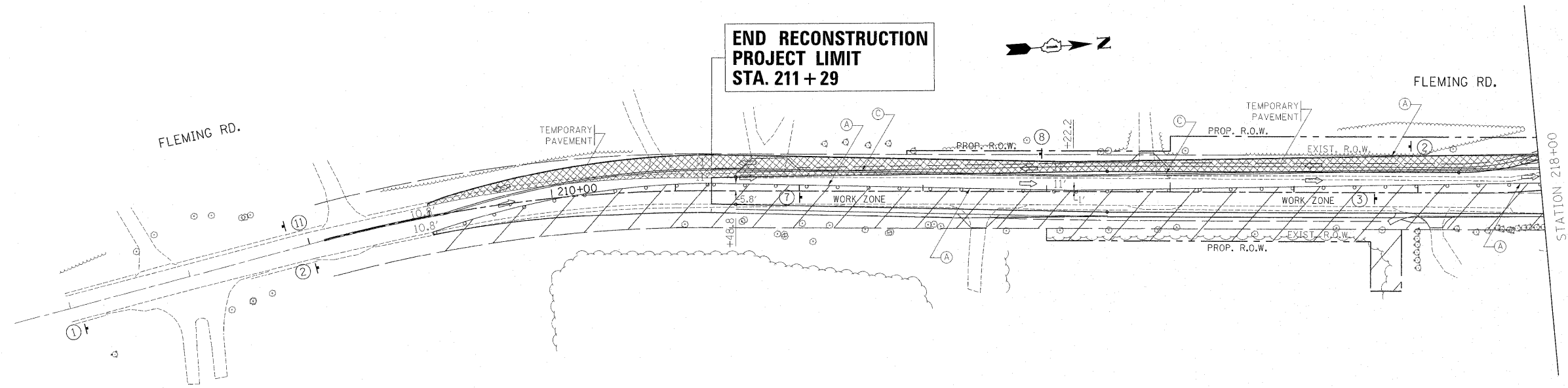
FLEMING ROAD RECONSTRUCTION:
FROM STATION 211+29 TO STATION 219+15



- LEGEND:**
- (A) TEMPORARY PAVEMENT MARKING, TYPE III
4" SOLID WHITE EDGE LINE
 - (B) TEMPORARY PAVEMENT MARKING, TYPE III
4" SOLID SINGLE YELLOW
 - (C) TEMPORARY PAVEMENT MARKING, TYPE III
4" SOLID DOUBLE YELLOW
 - (D) TEMPORARY PAVEMENT MARKING, TYPE III
8" SOLID WHITE LINE
 - (E) TEMPORARY PAVEMENT MARKING, TYPE III
12" SOLID WHITE 45 DEGREE DIAGONALS
AT 10' OR LESS SPACING
 - (F) TEMPORARY PAVEMENT MARKING, TYPE III
12" SOLID YELLOW 45 DEGREE DIAGONALS
AT LEAST 5 LINES EQUALLY SPACED
 - (G) TEMPORARY PAVEMENT MARKING, TYPE III
24" SOLID WHITE (STOP BAR)
 - BARRICADE TYPE I OR TYPE II OR REFLECTORIZED DRUM
OR VERTICAL PANEL WITH ONE BURN LIGHT.
 - ⊥ TYPE III BARRICADE WITH 2 LIGHTS ONE SYMBOL
REPRESENTS ANY NUMBER OF BARRICADES REQUIRED
TO ADEQUATELY PROTECT THE AREA SHOWN.
 - + CONSTRUCTION SIGN AND REFERENCE NUMBER
(REFER TO SIGN DETAIL LEGEND SHEET)
 - ↑ TRAFFIC LANE

FOR WIDENING AND RESURFACING OPERATIONS THE SIGNING, BARRICADING, AND LANE CLOSURE SHALL BE IN ACCORDANCE WITH STANDARD 701201 IN ADDITION TO THE SIGNS SHOWN.

FILE NAME = c:\pw_work\p10dot\galbanj\d0107803\p113	USER NAME = galbanj 07-Design.dgn	DESIGNED - DRAWN -	REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. ROUTE 120 FLEMING ROAD SUGGESTED STAGING & TRAFFIC CONTROL PLAN, STAGE 2				F.A.P. RTE. 333	SECTION 15-N-6	COUNTY MCHENRY	TOTAL SHEETS 67	SHEET NO. 22
	PLOT SCALE = 50,000' / in.	CHECKED -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	CONTRACT NO. 60L27		
	PLOT DATE = 9/30/2011	DATE -	REVISED -		ILLINOIS FED. AID PROJECT								



**END RECONSTRUCTION
PROJECT LIMIT
STA. 211 + 29**

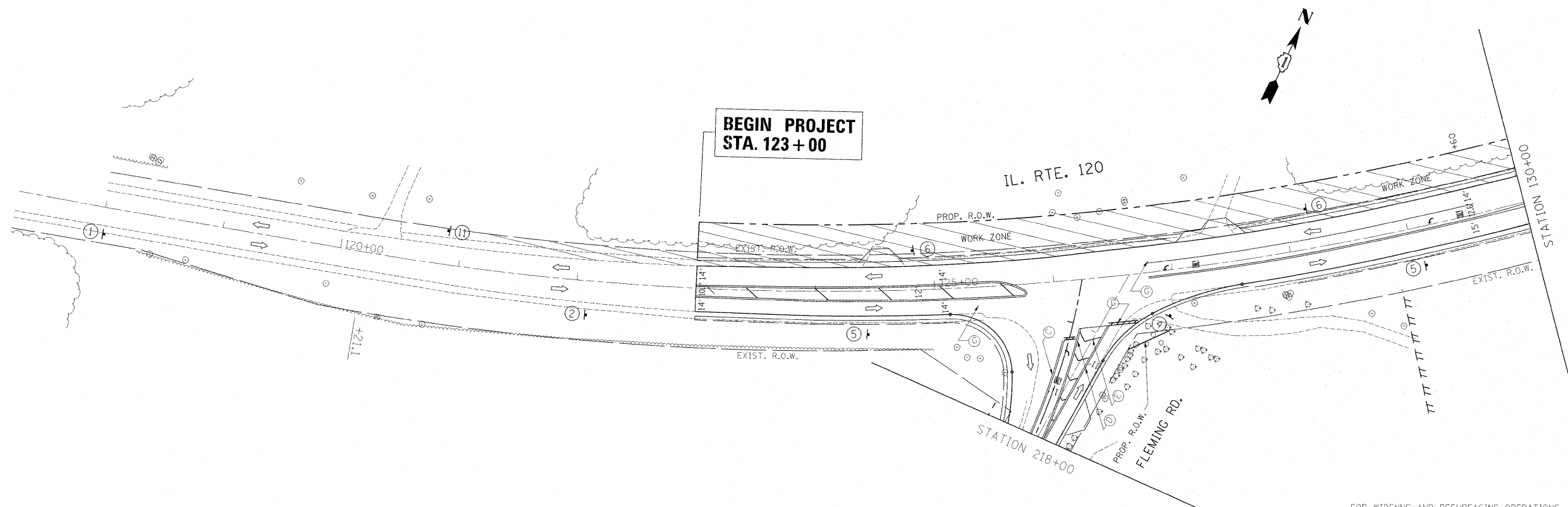
FOR WIDENING AND RESURFACING OPERATIONS
THE SIGNING, BARRICADING, AND LANE CLOSURE
SHALL BE IN ACCORDANCE WITH STANDARD 701201
IN ADDITION TO THE SIGNS SHOWN.

FLEMING ROAD RECONSTRUCTION:
FROM STATION 211+29 TO STATION 219+15

LEGEND:

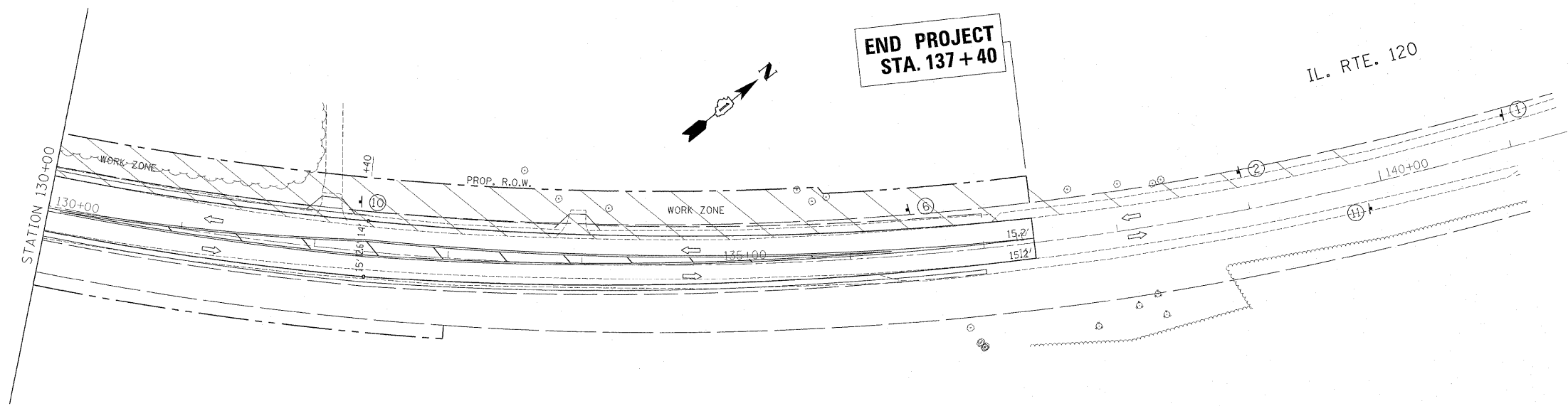
- (A) TEMPORARY PAVEMENT MARKING, TYPE III
4" SOLID WHITE EDGE LINE
- (B) TEMPORARY PAVEMENT MARKING, TYPE III
4" SOLID SINGLE YELLOW
- (C) TEMPORARY PAVEMENT MARKING, TYPE III
4" SOLID DOUBLE YELLOW
- (D) TEMPORARY PAVEMENT MARKING, TYPE III
8" SOLID WHITE LINE
- (E) TEMPORARY PAVEMENT MARKING, TYPE III
12" SOLID WHITE 45 DEGREE DIAGONALS
AT 10' OR LESS SPACING
- (F) TEMPORARY PAVEMENT MARKING, TYPE III
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24" SOLID WHITE (STOP BAR)
- BARRICADE TYPE I OR TYPE II OR REFLECTORIZED DRUM
OR VERTICAL PANEL WITH ONE BURN LIGHT.
- ⊥ TYPE III BARRICADE WITH 2 LIGHTS ONE SYMBOL
REPRESENTS ANY NUMBER OF BARRICADES REQUIRED
TO ADEQUATELY PROTECT THE AREA SHOWN.
- ↑ CONSTRUCTION SIGN AND REFERENCE NUMBER
(REFER TO SIGN DETAIL LEGEND SHEET)
- ↑ TRAFFIC LANE

FILE NAME =	USER NAME = galbanjr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. ROUTE 120 FLEMING ROAD SUGGESTED STAGING & TRAFFIC CONTROL PLAN, STAGE 2	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ci:\pw\work\p\dot\galbanjr\d01076803\PI1137	07-Design.dgn	DRAWN -	REVISED -			333	15-N-6	MCHENRY	67	23
PLOT SCALE = 50,000' / in.		CHECKED -	REVISED -			CONTRACT NO. 60L27				
PLOT DATE = 9/30/2011		DATE -	REVISED -			ILLINOIS FED. AID PROJECT				
				SCALE:		SHEET NO. OF SHEETS		STA. TO STA.		



FOR WIDENING AND RESURFACING OPERATIONS THE SIGNING, BARRICADING, AND LANE CLOSURE SHALL BE IN ACCORDANCE WITH STANDARD 701201 IN ADDITION TO THE SIGNS SHOWN.

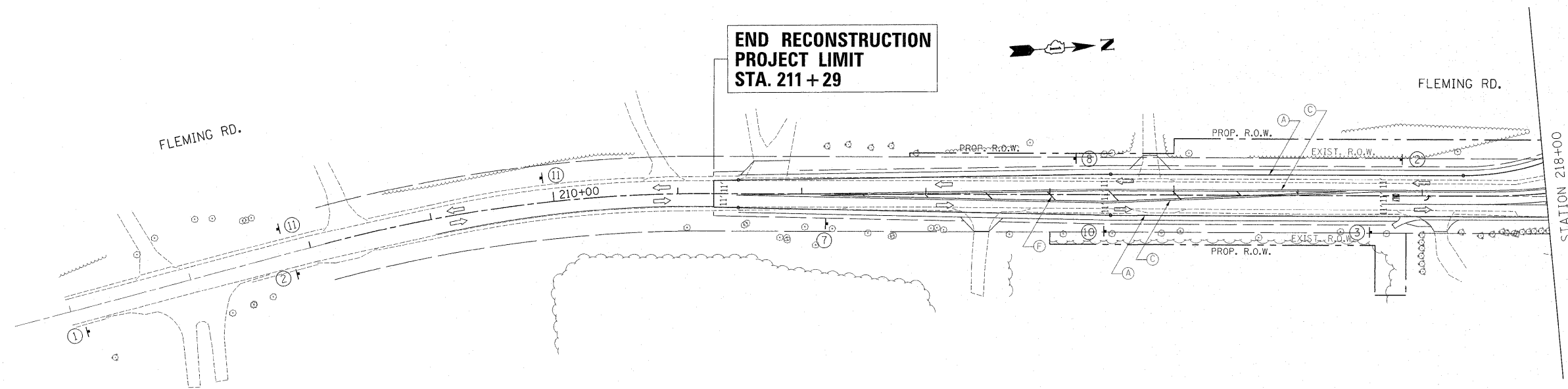
FLEMING ROAD RECONSTRUCTION:
FROM STATION 211+29 TO STATION 219+15



- LEGEND:**
- (A) TEMPORARY PAVEMENT MARKING, TYPE III
4" SOLID WHITE EDGE LINE
 - (B) TEMPORARY PAVEMENT MARKING, TYPE III
4" SOLID SINGLE YELLOW
 - (C) TEMPORARY PAVEMENT MARKING, TYPE III
4" SOLID DOUBLE YELLOW
 - (D) TEMPORARY PAVEMENT MARKING, TYPE III
8" SOLID WHITE LINE
 - (E) TEMPORARY PAVEMENT MARKING, TYPE III
12" SOLID WHITE 45 DEGREE DIAGONALS
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 - ⊕ CONSTRUCTION SIGN AND REFERENCE NUMBER
(REFER TO SIGN DETAIL LEGEND SHEET)
 - ↑ TRAFFIC LANE

FOR WIDENING AND RESURFACING OPERATIONS THE SIGNING, BARRICADING, AND LANE CLOSURE SHALL BE IN ACCORDANCE WITH STANDARD 701201 IN ADDITION TO THE SIGNS SHOWN.

FILE NAME = c:\pwwork\pwwork\galbanjr\d0107803\p113	USER NAME = galbanjr 07-Design.dgn	DESIGNED - DRAWN -	REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. ROUTE 120 FLEMING ROAD SUGGESTED STAGING & TRAFFIC CONTROL PLAN, STAGE 3			F.A.P. RTE. 333	SECTION 16-N-6	COUNTY MCHENRY	TOTAL SHEETS 67	SHEET NO. 24
PLOT SCALE = 50.000' / in.					SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO. 60L27				
CHECKED - DATE -					DATE -	ILLINOIS FED. AID PROJECT						
PLOT DATE = 9/30/2011					DATE -							



FOR WIDENING AND RESURFACING OPERATIONS THE SIGNING, BARRICADING, AND LANE CLOSURE SHALL BE IN ACCORDANCE WITH STANDARD 701201 IN ADDITION TO THE SIGNS SHOWN.

FLEMING ROAD RECONSTRUCTION:
FROM STATION 211+29 TO STATION 219+15

LEGEND:

- (A) TEMPORARY PAVEMENT MARKING, TYPE III
4" SOLID WHITE EDGE LINE
- (B) TEMPORARY PAVEMENT MARKING, TYPE III
4" SOLID SINGLE YELLOW
- (C) TEMPORARY PAVEMENT MARKING, TYPE III
4" SOLID DOUBLE YELLOW
- (D) TEMPORARY PAVEMENT MARKING, TYPE III
8" SOLID WHITE LINE
- (E) TEMPORARY PAVEMENT MARKING, TYPE III
12" SOLID WHITE 45 DEGREE DIAGONALS
AT 10' OR LESS SPACING
- (F) TEMPORARY PAVEMENT MARKING, TYPE III
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- + CONSTRUCTION SIGN AND REFERENCE NUMBER
(REFER TO SIGN DETAIL LEGEND SHEET)
- ↑ TRAFFIC LANE

FILE NAME =
c:\pwwork\pindot\galbarjr\d0107603\113

USER NAME = galbarjr
07-Design.dgn
PLOT SCALE = 50.000' / in.
PLOT DATE = 9/30/2011

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

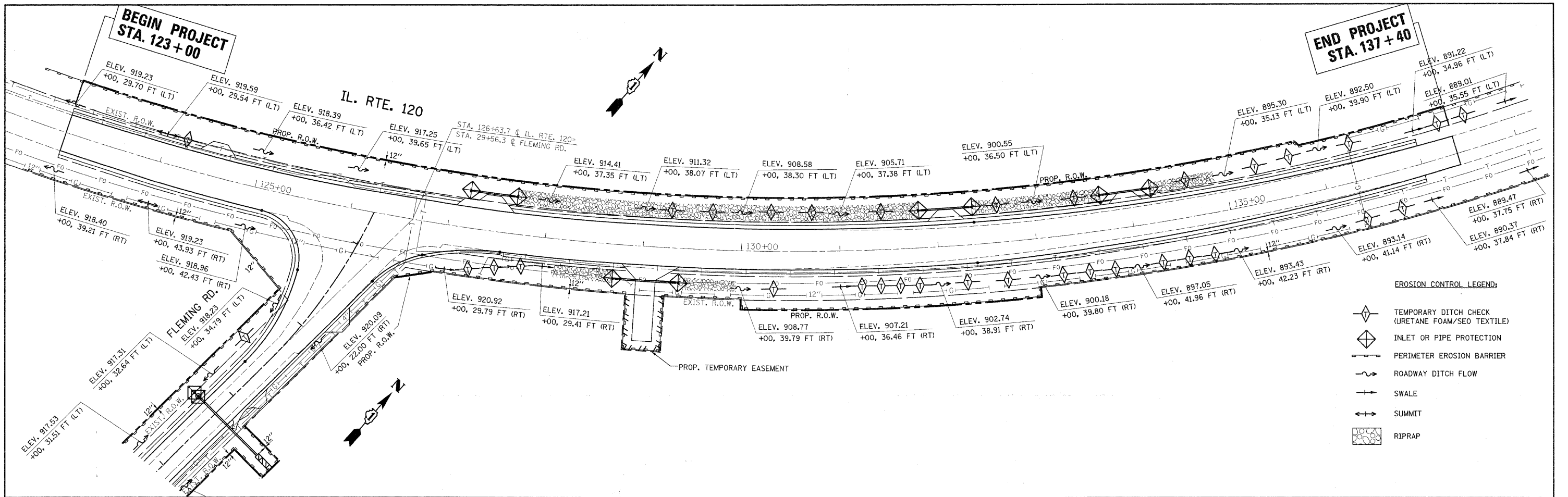
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL. ROUTE 120 FLEMING ROAD
SUGGESTED STAGING & TRAFFIC CONTROL PLAN, STAGE 3**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	15-N-6	MCHENRY	67	25
CONTRACT NO. 60L27				

ILLINOIS FED. AID PROJECT

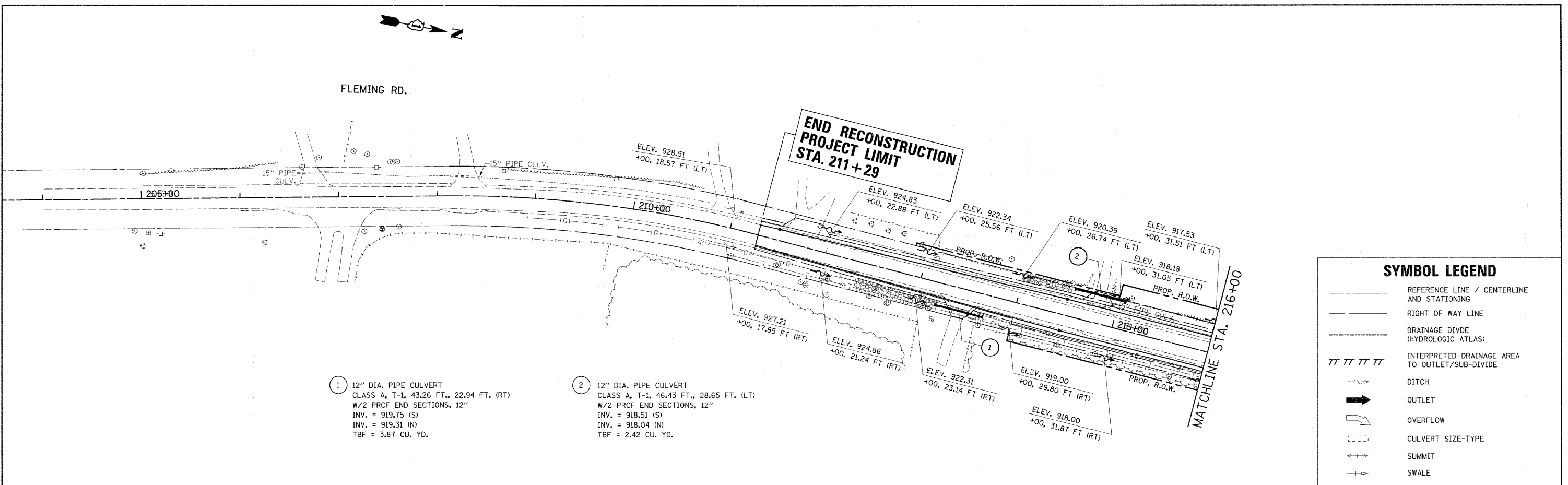


- TEMPORARY EROSION CONTROL SEEDING TO BE PROVIDED AT ALL ERODIBLE BARE EARTH AREAS
- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN INLET PROTECTION AT ALL DRAINAGE STRUCTURES AND AT OTHER LOCATIONS DIRECTED BY THE ENGINEER OR SHOWN IN THE PLANS. INLET PROTECTION SHALL BE PLACED IMMEDIATELY AFTER THE AREA HAS BEEN DISTURBED.
- ALL EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND OF THE APPLICABLE STATE STANDARDS FOR THE ENTIRE DURATION OF THE CONTRACT OR UNTIL SUCH TIME AS DIRECTED BY THE ENGINEER.
- PERIMETER EROSION CONTROL BARRIER SHALL BE PLACED 12 INCHES FROM THE R.O.W. OR EASEMENT OR AS DIRECTED BY THE ENGINEER.
- AT ANY AREA WHERE THERE IS NO PROPOSED EARTH GRADING, THE EXISTING GROUND COVER SHALL REMAIN.
- DURING CONSTRUCTION AND WHEN ERODIBLE SOILS ARE EXPOSED, ALL DRAINAGE STRUCTURES NOT PROTECTED WITH INLET OR PIPE PROTECTION SHALL BE KEPT SEALED TO PREVENT ACCESS FROM EROSION. THIS WORK SHALL BE CONSIDERED AS PART OF THE COST OF THE VARIOUS DRAINAGE STRUCTURES.

FILE NAME = P113787-sht-eros.dgn	USER NAME = drlvakosgn	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL PLAN IL. ROUTE 120 FLEMING RD.			F.A.P. RTE. 333	SECTION 15-N-6	COUNTY McHENRY	TOTAL SHEETS 67	SHEET NO. 26
	PLOT SCALE = 50.0000' / 1"	DRAWN -	REVISED -		SCALE: 1" = 50'	SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO. 60L27				
	PLOT DATE = 7/27/2011	CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT							
		DATE -	REVISED -									

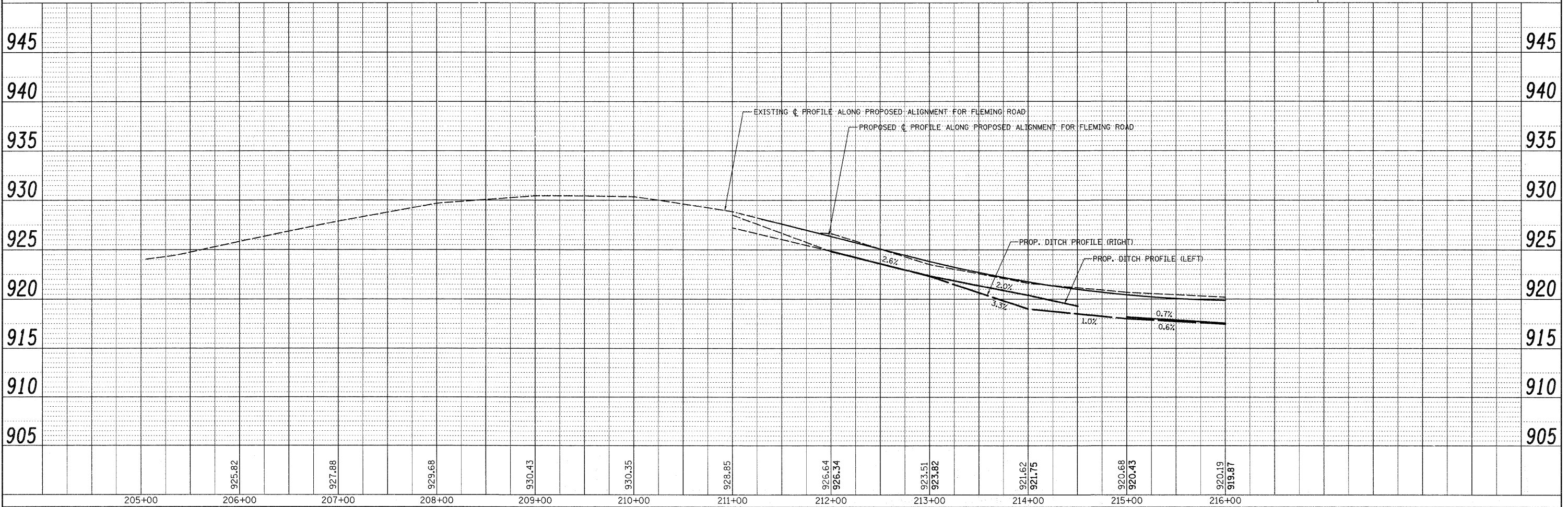
DATE: _____
 BY: _____
 DESIGNED: _____
 DRAWN: _____
 CHECKED: _____
 DATE: _____

DATE: _____
 BY: _____
 DESIGNED: _____
 DRAWN: _____
 CHECKED: _____
 DATE: _____



SYMBOL LEGEND

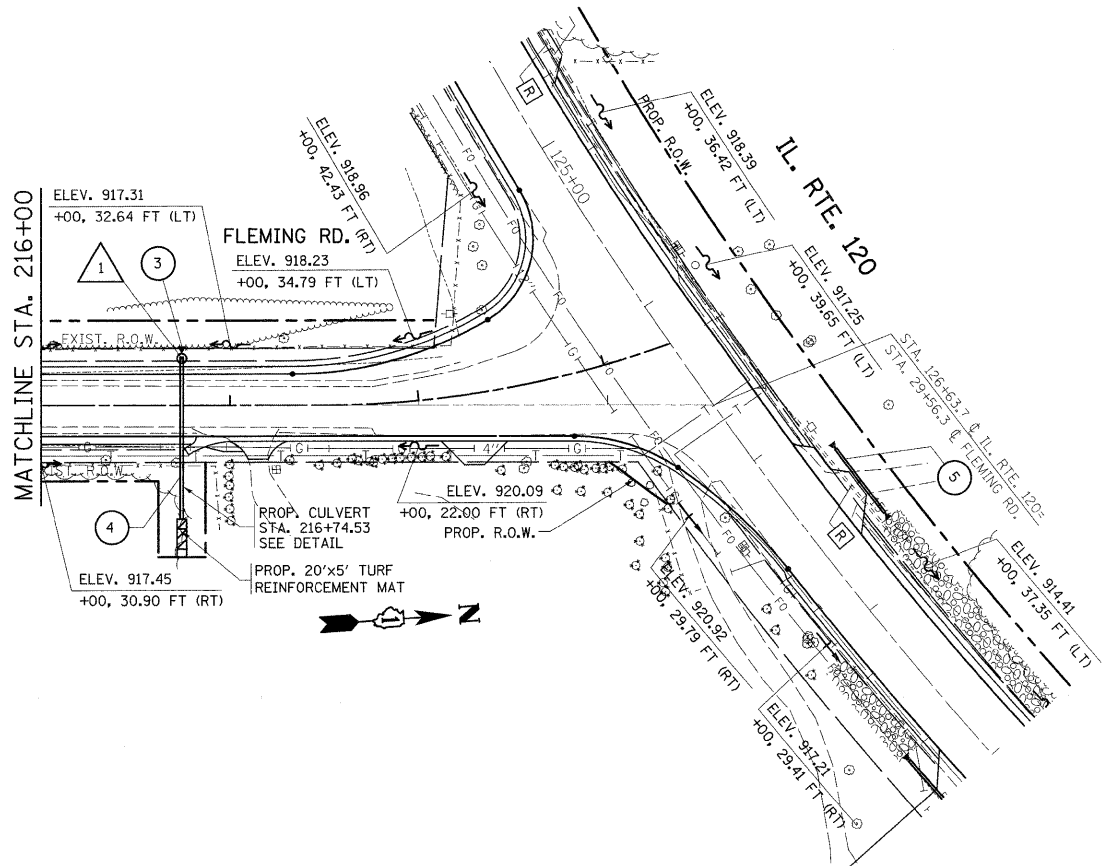
- REFERENCE LINE / CENTERLINE AND STATIONING
- RIGHT OF WAY LINE
- DRAINAGE DIVIDE (HYDROLOGIC ATLAS)
- ||||| INTERPRETED DRAINAGE AREA TO OUTLET/SUB-DIVIDE
- ~ DITCH
- ➔ OUTLET
- ↪ OVERFLOW
- CULVERT SIZE-TYPE
- ↑ SUMMIT
- ↔ SWALE



FILE NAME = P113707-shd-drain.dgn	USER NAME = bauer-dl	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING AND PROPOSED DRAINAGE PLAN FLEMING RD IL. ROUTE 120			F.A.P. RTE. 333	SECTION 15-N-6	COUNTY MCHENRY	TOTAL SHEETS 67	SHEET NO. 27
		DRAWN -	REVISED -		SCALE: 1"=50'	SHEET NO.	OF SHEETS	STA. 211+29 TO STA. 216+00	CONTRACT NO. 60L27			
		CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT							
		DATE -	REVISED -									

PLAN	REVISIONS	DATE
NO.	BY	
NO.	BY	
NO.	BY	
NO.	BY	
NO.	BY	
NO.	BY	
NO.	BY	
NO.	BY	
NO.	BY	

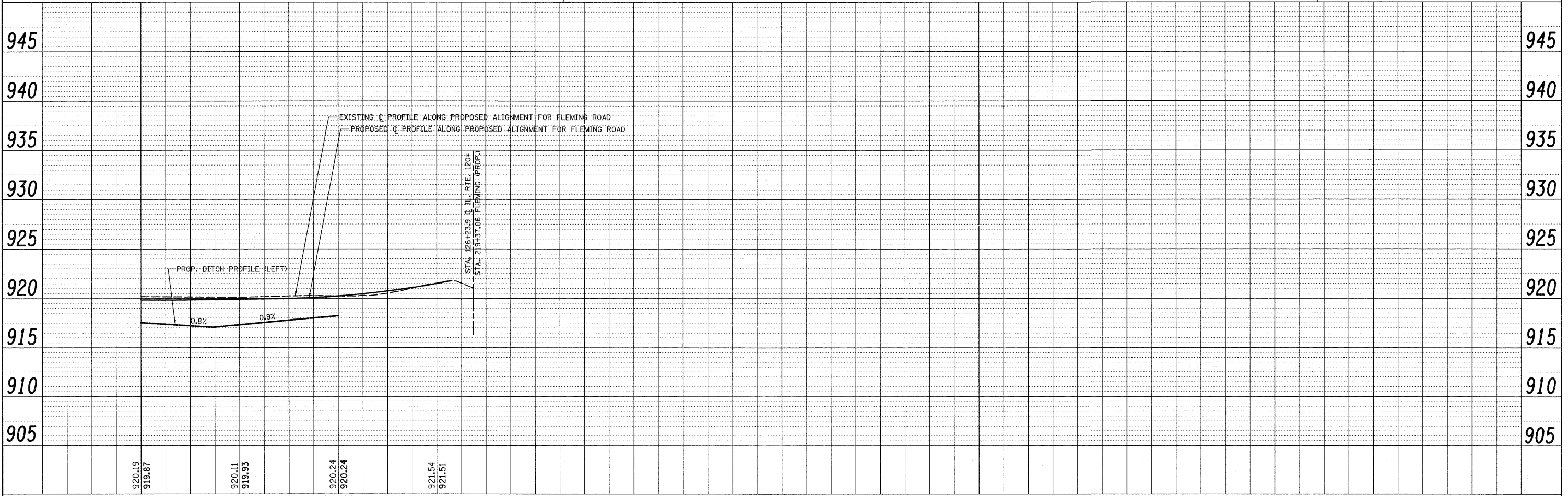
FILE	REVISIONS	DATE
NO.	BY	
NO.	BY	
NO.	BY	
NO.	BY	
NO.	BY	
NO.	BY	
NO.	BY	
NO.	BY	
NO.	BY	



- 3 PRCF END SECTION, 15"
STA. 216+74.50, 32.86 FT. (LT)
INV. = 916.97 (W)
- 4 18" DIA. PIPE CULVERT
CLASS A, T-1, 82.78 FT.
W/1 PRCF END SECTION, 18"
INV. = 914.61
TBF = 10.64 CU. YD.

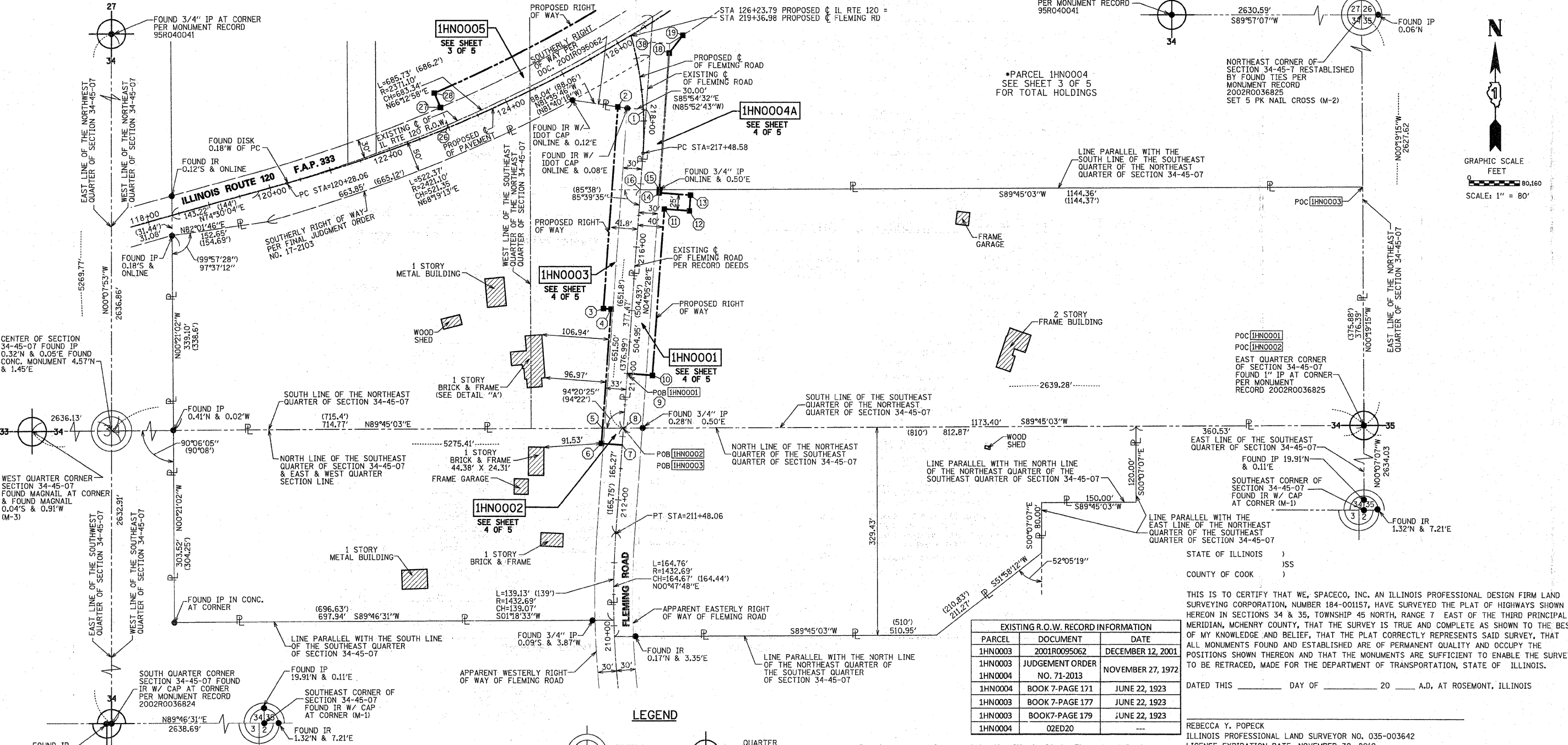
FLAT SLAB 1
MH, T-A, 4 FT. DIA., TIF CL
STA. 216+74+50, 24.86 FT. (LT)
T.G. = 919.38
INV. = 916.95 (W)
INV. = 914.82 (E)

SYMBOL LEGEND	
---	REFERENCE LINE / CENTERLINE AND STATIONING
---	RIGHT OF WAY LINE
---	DRAINAGE DIVDE (HYDROLOGIC ATLAS)
	INTERPRETED DRAINAGE AREA TO OUTLET/SUB-DIVIDE
~	DITCH
→	OUTLET
↪	OVERFLOW
---	CULVERT SIZE-TYPE
↔	SUMMIT
↔	SWALE



FILE NAME = P113707-sht-drain.rxd	USER NAME = beaverd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING AND PROPOSED DRAINAGE PLAN FLEMING RD IL. ROUTE 120			F.A.P. RTE. 333	SECTION 15-N-6	COUNTY MCHENRY	TOTAL SHEETS 67	SHEET NO. 28
PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED -	SCALE: 1"=50'					SHEET NO.	OF	SHEETS	STA. 216+00	TO STA. 219+37
PLOT DATE = 9/16/2011	DATE -	REVISED -	FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT						

PART OF THE EAST HALF OF SECTION 34 TWP. 45 N., R. 7 E. OF THE 3RD. P.M., IN McHENRY COUNTY, ILLINOIS.



PARCEL	DOCUMENT	DATE
1HN0003	2001R0095062	DECEMBER 12, 2001
1HN0003	JUDGEMENT ORDER NO. 71-2013	NOVEMBER 27, 1972
1HN0004	BOOK 7-PAGE 171	JUNE 22, 1923
1HN0003	BOOK 7-PAGE 177	JUNE 22, 1923
1HN0003	BOOK 7-PAGE 179	JUNE 22, 1923
1HN0004	02ED20	---

STATE OF ILLINOIS)
 COUNTY OF COOK)

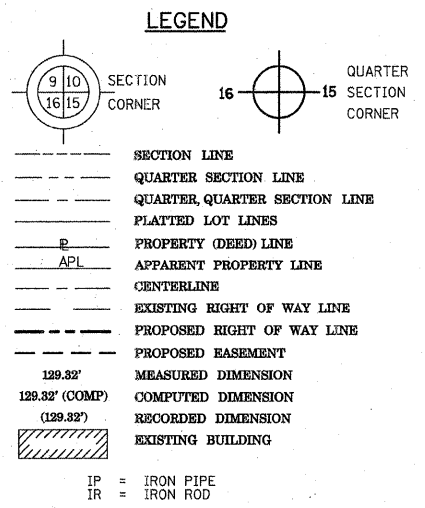
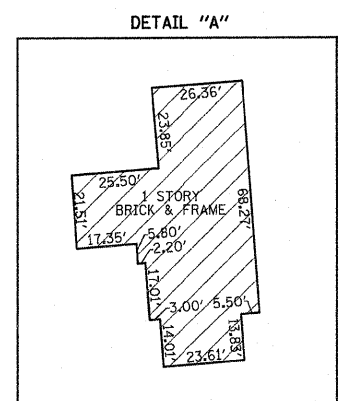
THIS IS TO CERTIFY THAT WE, SPACECO, INC. AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-001157, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 34 & 35, TOWNSHIP 45 NORTH, RANGE 7 EAST OF THE THIRD PRINCIPAL MERIDIAN, McHENRY COUNTY, THAT THE SURVEY IS TRUE AND 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 THIS _____ DAY OF _____ 20 ____ A.D., AT ROSEMONT, ILLINOIS

REBECCA Y. POPECK
 ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-003642
 LICENSE EXPIRATION DATE: NOVEMBER 30, 2010

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

POINT	NORTHING	EASTING	STATION	OFFSET
1	2065107.33	966615.81	218+17.89	4.48 RIGHT
2	2065111.67	966571.00	218+25.32	39.96 LEFT
3	2064793.08	966548.21	215+00.00	45.00 LEFT
4	2064792.22	966560.18	215+00.00	33.00 LEFT
5	2064603.52	966546.69	213+10.82	33.00 LEFT
6	2064579.56	966544.97	212+86.80	33.00 LEFT
7	2064577.21	966577.89	212+86.80	0.00
8	2064603.67	966579.78	213+13.33	0.00
9	2064690.12	966585.97	214+00.00	0.00
10	2064687.27	966625.86	214+00.00	40.00 RIGHT
11	2064949.39	966644.61	216+62.80	40.00 RIGHT
12	2064946.54	966684.51	216+62.80	80.00 RIGHT
13	2064971.47	966686.29	216+87.80	80.00 RIGHT
14	2064975.04	966636.42	216+87.80	30.00 RIGHT
15	2064980.31	966636.80	216+93.08	30.00 RIGHT
16	2064980.18	966606.74	216+90.80	0.00
18	2065196.50	966652.26	218+97.45	52.36 RIGHT
19	2065224.56	966673.99	216+93.40	43.07 RIGHT
26	2065083.33	966301.10	123+00.37	4.30 LEFT
27	2065110.87	966289.30	123+00.00	34.33 LEFT
28	2065133.85	966279.45	122+99.69	59.33 LEFT
38	2065213.60	966623.41	219+18.94	28.12 RIGHT



Bearings are referenced to the Illinois State Plane Coordinate Grid System, NAD83, East Zone, as provided by the Illinois Department of Transportation.

IRON PIPE OR ROD FOUND ○ REPLACED AFTER CONSTRUCTION
 - - - CUT CROSS FOUND OR SET

● T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
 ● T2
 ● T3

■ BT1 THESE STAKES IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
 ■ BT2
 ■ BT3

■ M STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS 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. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

○ PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)
 □ RIGHT OF WAY STAKING PROPOSED TO BE SET

REVISION DATE: 05/25/2011
 REVISION DATE: 09/07/2010
 REVISION DATE: 08/09/2010
 REVISION DATE: 07/13/2010
 REVISION DATE: 05/05/2010
 REVISION DATE: 04/08/2010

REVISION 1HN0004TE
 REVISION PER IDOT REVIEW
 REVISION PER IDOT REQUEST
 REVISION PER IDOT REVIEW
 REVISION PER IDOT REVIEW
 REVISION PER IDOT REVIEW

RECEIVED
 MAY 25 2011
 PLATS & LEGALS

CONSULTING ENGINEERS
SITE DEVELOPMENT ENGINEERS
LAND SURVEYORS

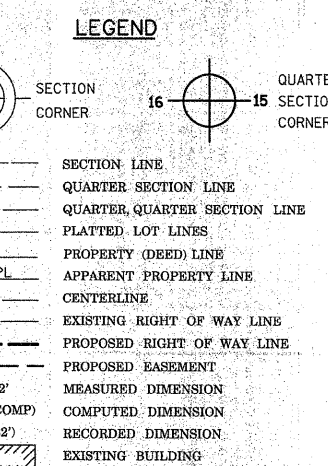
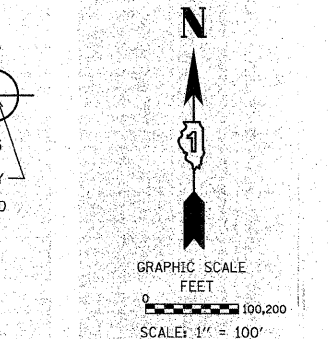
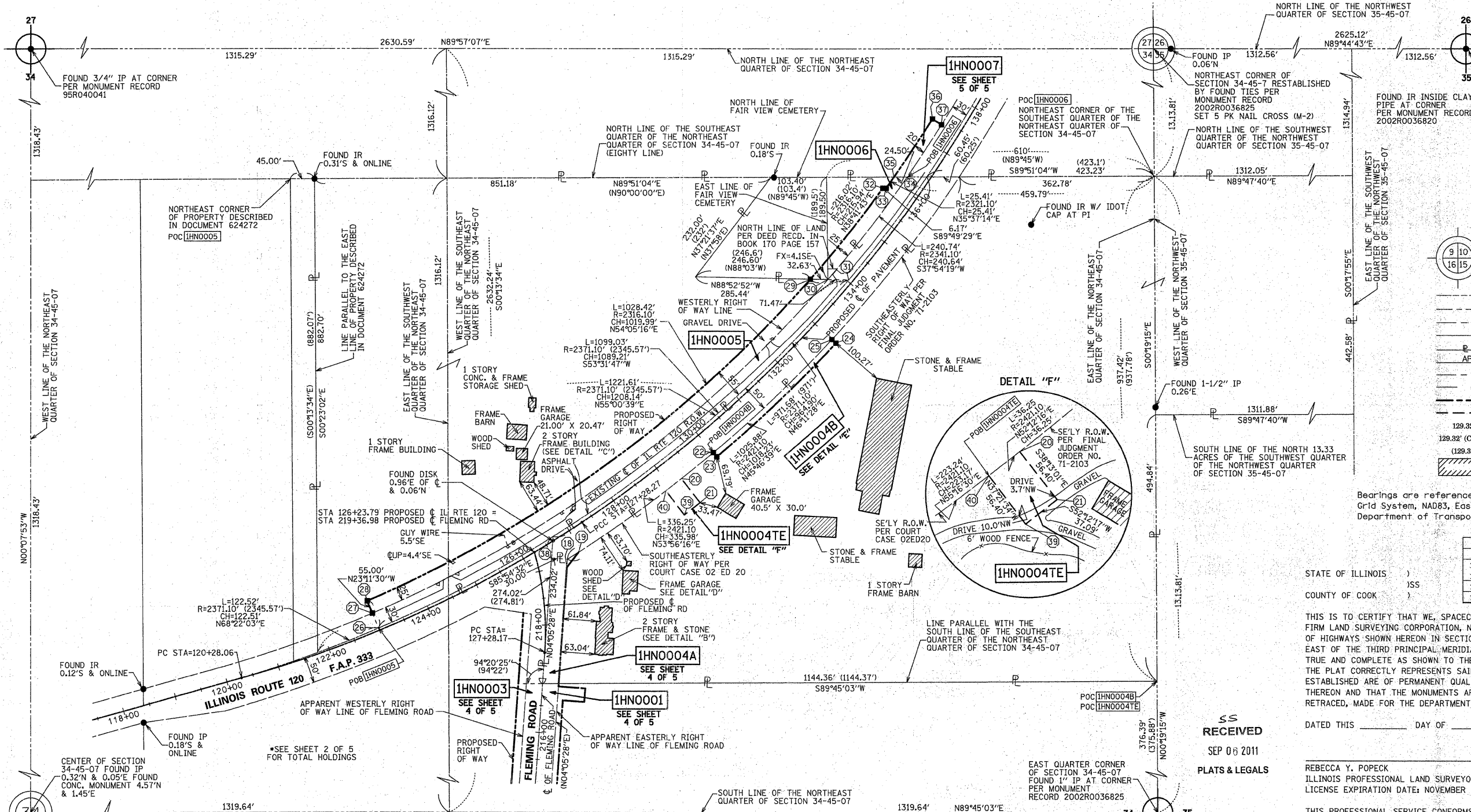
9575 W. Higgins Road, Suite 700,
 Rosemont, Illinois 60018
 Phone: (847) 696-4060 Fax: (847) 696-4065

PLAT OF HIGHWAYS
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 F.A.P. 333 (ILLINOIS ROUTE 120)

SECTION: AT FLEMING ROAD COUNTY: McHENRY
 PROJECT JOB NO.: R-91-009-07
 STATION 210+00 TO STATION 219+36.98
 SCALE: 1"=80' SHEET 2 OF 5

BUREAU OF LAND ACQUISITION
 201 WEST CENTER COURT
 SCHAUMBURG, ILLINOIS 60196

PART OF THE NORTHEAST QUARTER OF SECTION 34 & THE NORTHWEST QUARTER OF SECTION 35 TWP. 45 N., R. 7 E. OF THE 3RD. P.M., IN McHENRY COUNTY, ILLINOIS.



Bearings are referenced to the Illinois State Plane Coordinate Grid System, NAD83, East Zone, as provided by the Illinois Department of Transportation.

PARCEL	DOCUMENT	DATE
1HN0005	BOOK 7-PAGE 171	JUNE 22, 1923
1HN0006	BOOK 7-PAGE 173	JUNE 22, 1923
1HN0005	BOOK 7-PAGE 179	JUNE 22, 1923

STATE OF ILLINOIS)
) SS
 COUNTY OF COOK)

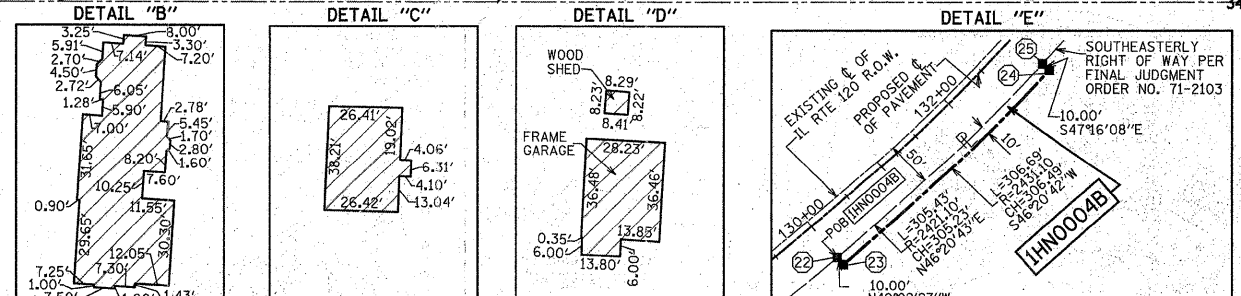
THIS IS TO CERTIFY THAT WE, SPACECO, INC. AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-001157, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 34 & 35, TOWNSHIP 45 NORTH, RANGE 7 EAST OF THE THIRD PRINCIPAL MERIDIAN, McHENRY COUNTY, THAT THE SURVEY IS TRUE AND 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 THIS _____ DAY OF _____ 20____ A.D., AT ROSEMONT, ILLINOIS

REBECCA Y. POPECK
 ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-003642
 LICENSE EXPIRATION DATE: NOVEMBER 30, 2010

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

RECEIVED
 SEP 06 2011
 PLATS & LEGALS



POINT	NORTHING	EASTING	STATION	OFFSET
18	2065196.50	966652.26	218+97.45	52.36 RIGHT
19	2065224.56	966673.99	126+93.40	43.07 RIGHT
20	2065360.80	966865.39	129+24.60	43.02 RIGHT
21	2065316.48	966900.28	129+24.60	99.42 RIGHT
22	2065409.24	966924.99	130+00.00	43.01 RIGHT
23	2065401.58	966931.36	130+00.00	53.01 RIGHT
24	2065613.15	967153.11	133+00.00	52.97 RIGHT
25	2065619.94	967145.76	133+00.00	42.97 RIGHT
26	2065983.33	966901.10	123+00.37	4.30 LEFT
27	2065110.87	966289.30	123+00.00	34.33 LEFT
28	2065133.85	966279.45	122+99.69	59.33 LEFT
29	2065732.13	967105.56	133+56.60	62.04 LEFT
30	2065731.49	967138.18	133+75.46	37.26 LEFT
31	2065730.73	967176.91	134+03.05	5.68 LEFT
32	2065900.66	967240.56	135+78.40	62.07 LEFT
33	2065900.64	967246.73	135+82.10	57.07 LEFT
34	2065921.37	967286.03	136+22.44	37.27 LEFT
35	2065921.30	967261.53	136+08.14	57.07 LEFT
36	2066028.33	967332.96	137+40.00	57.09 LEFT
37	2066017.70	967349.89	137+40.00	37.09 LEFT
38	2065213.60	966623.41	219+18.94	28.12 RIGHT
39	2065293.75	966870.97	128+89.00	99.42 RIGHT
40	2065338.58	966836.75	128+89.00	43.02 RIGHT

PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
1HN0005	DONNA JEAN SLAWSON, AS SUCCESSOR TRUSTEE	12.750	1.343	0.744	11.407	0.000	N/A	08-34-200-021	
1HN0006	FAIRVIEW CEMETERY	1.093	0.135	0	0.958	0.000	N/A	08-34-200-004	
1HN0004A	CHRISTOPHER K. SELLERS SR. (TRUSTEE)	30.348	0.164	0.160	30.114	0.047	TEMPORARY	08-34-200-023	
1HN0004B	SUSAN R. SELLERS (TRUSTEE)			0.000				08-35-100-003	

REVISION	DATE	BY	REVISION	DATE	BY
REVISION PER IDOT REVIEW	09/06/2011	MADE BY RYP	REVISION DATE	09/07/2010	MADE BY RYP
REVISION PER IDOT REVIEW	09/02/2011	MADE BY RYP	REVISION DATE	08/09/2010	MADE BY JWM
REVISION OWNER INFORMATION	07/27/2011	MADE BY RYP	REVISION DATE	05/05/2010	MADE BY RYP
REVISION	05/25/2011	MADE BY RYP	REVISION DATE	4/8/2010	MADE BY JM

- IRON PIPE OR ROD FOUND ○ REPLACED AFTER CONSTRUCTION
- + CUT CROSS FOUND OR SET
- T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- T2
- T3
- BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- BT2
- BT3
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS 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. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET

SPACECO, INC.
 CONSULTING ENGINEERS
 SITE DEVELOPMENT ENGINEERS
 LAND SURVEYORS

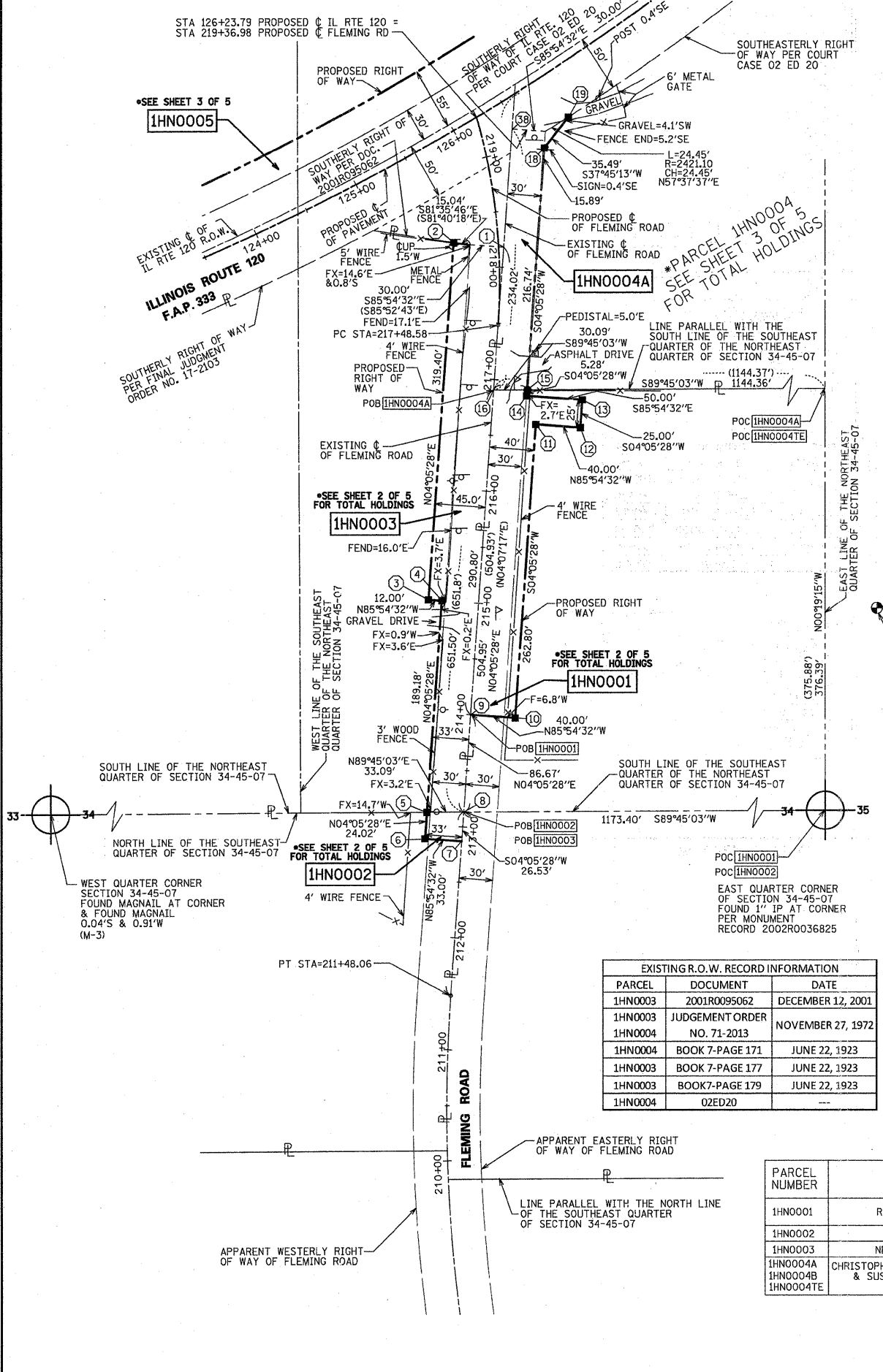
9575 W. Higgins Road, Suite 700,
 Rosemont, Illinois 60018
 Phone: (847) 696-4060 Fax: (847) 696-4065

PLAT OF HIGHWAYS
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 F.A.P. 333 (ILLINOIS ROUTE 120)

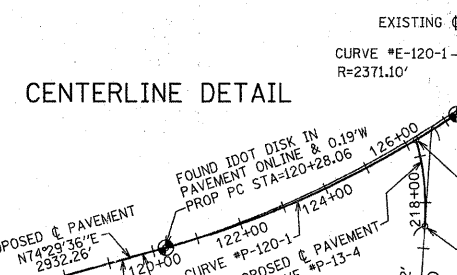
SECTION: AT FLEMING ROAD COUNTY: McHENRY
 PROJECT: JOB NO.: R-91-009-07
 STATION 118+00 TO STATION 138+00
 SCALE: 1"=100' SHEET 3 OF 5

BUREAU OF LAND ACQUISITION
 201 WEST CENTER COURT
 SCHAUMBURG, ILLINOIS 60196

PART OF THE EAST HALF OF SECTION 34, TWP. 45 N., R. 7 E. OF THE 3RD. P.M., IN McHENRY COUNTY, ILLINOIS.



COORDINATE TABLE				
POINT	NORTHING	EASTING	STATION	OFFSET
1	2065107.33	966615.81	218+17.89	4.48 RIGHT
2	2065111.67	966571.00	218+25.32	39.96 LEFT
3	2064793.08	966548.21	215+00.00	45.00 LEFT
4	2064792.22	966560.18	215+00.00	33.00 LEFT
5	2064603.52	966546.69	213+10.82	33.00 LEFT
6	2064579.56	966544.97	212+86.80	33.00 LEFT
7	2064577.21	966577.89	212+86.80	0.00
8	2064603.67	966579.78	213+13.33	0.00
9	2064690.12	966585.97	214+00.00	0.00
10	2064687.27	966625.86	214+00.00	40.00 RIGHT
11	2064949.39	966644.61	216+62.80	40.00 RIGHT
12	2064946.54	966684.51	216+62.80	80.00 RIGHT
13	2064971.47	966686.29	216+87.80	80.00 RIGHT
14	2064975.04	966636.42	216+87.80	30.00 RIGHT
15	2064980.31	966636.80	216+93.08	30.00 RIGHT
16	2064980.18	966606.74	216+90.80	0.00
18	2065196.50	966652.26	218+97.45	52.36 RIGHT
19	2065224.56	966673.99	126+93.40	43.07 RIGHT
38	2065213.60	966623.41	219+18.94	28.12 RIGHT



PROPOSED PAVEMENT FLEMING ROAD				
CURVE #P-13-4				
LENGTH	188.40			
RADIUS	540.21			
CHORD	187.44			
TANGENT	95.16			
E	8.32			
Δ	19°58'54"			
P.C.	217+48.58			
P.T.	219+36.98			

EXISTING APPARENT ROW FLEMING ROAD				
CURVE #E-13-3				
LENGTH	398.29			
RADIUS	1432.69			
CHORD	397.01			
TANGENT	200.44			
E	13.95			
Δ	15°55'42"			
P.C.	207+49.77			
P.T.	211+48.06			

PROPOSED PAVEMENT ILLINOIS ROUTE 120			
CURVE #P-120-1			
LENGTH	700.41		
RADIUS	2230.73		
CHORD	697.54		
TANGENT	353.11		
E	27.77		
Δ	17°59'24"		
P.C.	120+28.06		
P.C.C.	127+28.27		

CURVE #P-120-2			
LENGTH	1899.29		
RADIUS	2378.22		
CHORD	1849.22		
TANGENT	1003.56		
E	203.07		
Δ	45°45'27"		
P.C.C.	127+28.27		
P.T.	146+27.96		

CENTERLINE COORDINATE TABLE				
ROADWAY	STA	DESCRIPTION	NORTHING	EASTING
PROPOSED RTE 120	90+95.80	BEGIN	2,064,206.75	963,219.94
PROPOSED RTE 120	120+28.06	PC (CURVE #P-120-1)	2,064,990.68	966,045.46
PROPOSED RTE 120	123+81.17	PI (CURVE #P-120-1)	2,065,085.09	966,385.72
PROPOSED RTE 120	127+28.27	PCC	2,065,279.86	966,680.02
PROPOSED RTE 120	137+31.83	PT (CURVE #P-120-2)	2,065,833.71	967,516.91
PROPOSED RTE 120	146+27.96	PT (CURVE #P-120-2)	2,066,819.67	967,704.02
EXISTING RTE 120	105+48.59	BEGIN	2,064,594.95	964,619.90
EXISTING RTE 120	119+81.76	PC (CURVE #E-120-1)	2,064,977.92	966,000.95
EXISTING RTE 120	150+38.43	POINT ON CURVE	2,067,236.35	967,738.30
EXISTING FLEMING ROAD	207+49.77	PC (CURVE #E-13-3)	2,064,042.72	966,594.81
EXISTING FLEMING ROAD	209+48.92	PI (CURVE #E-13-3)	2,064,238.90	966,553.69
EXISTING FLEMING ROAD	211+48.06	PT (CURVE #E-13-3)	2,064,438.82	966,567.99
PROPOSED FLEMING ROAD	219+64.82	END	2,065,253.50	966,626.26
PROPOSED FLEMING ROAD	217+48.58	PC (CURVE #P-13-4)	2,065,037.81	966,610.83
PROPOSED FLEMING ROAD	218+42.78	PI (CURVE #P-13-4)	2,065,132.74	966,617.62
PROPOSED FLEMING ROAD	219+36.98	END	2,066,819.67	967,704.02

EXISTING R.O.W. RECORD INFORMATION		
PARCEL	DOCUMENT	DATE
1HN0003	2001R0095062	DECEMBER 12, 2001
1HN0003	JUDGEMENT ORDER NO. 71-2013	NOVEMBER 27, 1972
1HN0004	BOOK 7-PAGE 171	JUNE 22, 1923
1HN0003	BOOK 7-PAGE 177	JUNE 22, 1923
1HN0003	BOOK 7-PAGE 179	JUNE 22, 1923
1HN0004	OZED20	---

PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
1HN0001	ROBERT D. PETERSON	15.272	0.290	0.201	14.982	N/A	N/A	08-34-200-009 08-34-400-018	
1HN0002	WALTER LANG	4.908	0.019	0.017	4.889	N/A	N/A	08-34-400-002	
1HN0003	NELLIE J. DZIEROZYNSKI	6.862	0.471	0.349	6.391	N/A	N/A	08-34-200-022	
1HN0004A 1HN0004B 1HN0004E	CHRISTOPHER K. SELLERS SR. (TRUSTEE) & SUSAN R. SELLERS (TRUSTEE)	30.348	0.164 0.070	0.160 0.000	30.114	0.047	TEMPORARY	08-34-200-023 08-35-100-003	

REVISION DATE: 09/02/2011
 REVISION DATE: 07/27/2011
 REVISION DATE: 05/25/2011
 REVISION DATE: 09/07/2010
 REVISION DATE: 08/09/2010
 REVISION DATE: 05/05/2010
 REVISION DATE: 4/8/2010

REVISION PER IDOT REVIEW
 REVISION OWNER INFORMATION
 REVISION 1HN0004E
 REVISION PER IDOT REVIEW
 REVISION PER IDOT REVIEW
 REVISION PER IDOT REVIEW

MADE BY RYP
 MADE BY RYP
 MADE BY JWM
 MADE BY JWM
 MADE BY RYP
 MADE BY JM

LEGEND

SECTION CORNER 16 SECTION CORNER

QUARTER CORNER

SECTION LINE
 QUARTER SECTION LINE
 QUARTER, QUARTER SECTION LINE
 PLATTED LOT LINES
 PROPERTY (DEED) LINE
 APPARENT PROPERTY LINE
 CENTERLINE
 EXISTING RIGHT OF WAY LINE
 PROPOSED RIGHT OF WAY LINE
 PROPOSED EASEMENT
 MEASURED DIMENSION
 COMPUTED DIMENSION
 RECORDED DIMENSION
 EXISTING BUILDING

FX = FENCE CORNER
 UP = UTILITY POLE

MAILBOX
 UTILITY POLE
 SIGN

GRAPHIC SCALE
 FEET
 0 60,120
 SCALE: 1" = 60'
 0 200,400
 SCALE: 1" = 200'

Bearings are referenced to the Illinois State Plane Coordinate Grid System, NAD83, East Zone, as provided by the Illinois Department of Transportation.

IRON PIPE OR ROD FOUND ○ REPLACED AFTER CONSTRUCTION
 CUT CROSS FOUND OR SET

T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
 T2
 T3

BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
 BT2
 BT3

■ STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS 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. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

□ PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)
 RIGHT OF WAY STAKING PROPOSED TO BE SET

STATE OF ILLINOIS)
 COUNTY OF COOK)

THIS IS TO CERTIFY THAT WE, SPACECO, INC. AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-001157, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 34 & 35, TOWNSHIP 45 NORTH, RANGE 7 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 THIS _____ DAY OF _____ 20 ____ A.D., AT ROSEMONT, ILLINOIS

REBECCA Y. POPECK
 ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-003642
 LICENSE EXPIRATION DATE: NOVEMBER 30, 2010

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

RECEIVED
 SEP 02 2011
 PLATS & LEGALS

SPACECO INC.
 CONSULTING ENGINEERS
 SITE DEVELOPMENT ENGINEERS
 LAND SURVEYORS

9575 W. Higgins Road, Suite 700,
 Rosemont, Illinois 60018
 Phone: (847) 696-4060 Fax: (847) 696-4065

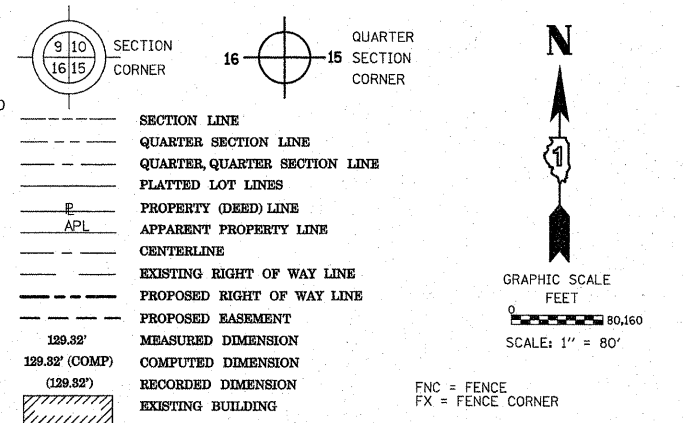
PLAT OF HIGHWAYS
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 F.A.P. 333 (ILLINOIS ROUTE 120)

SECTION: AT FLEMING ROAD COUNTY: McHENRY
 PROJECT JOB NO.: R-91-009-07
 STATION 210+00 TO STATION 219+36.98
 SCALE: VARIES SHEET 4 OF 5

BUREAU OF LAND ACQUISITION
 201 WEST CENTER COURT
 SCHAUMBURG, ILLINOIS 60196

PART OF THE NORTHEAST QUARTER OF SECTION 34 TWP. 45 N., R. 7 E. OF THE 3RD. P.M., IN McHENRY COUNTY, ILLINOIS.

LEGEND



- IRON PIPE OR ROD FOUND ○ REPLACED AFTER CONSTRUCTION
- + CUT CROSS FOUND OR SET
- T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
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- RIGHT OF WAY STAKING PROPOSED TO BE SET

STATE OF ILLINOIS)
) JSS
 COUNTY OF COOK)

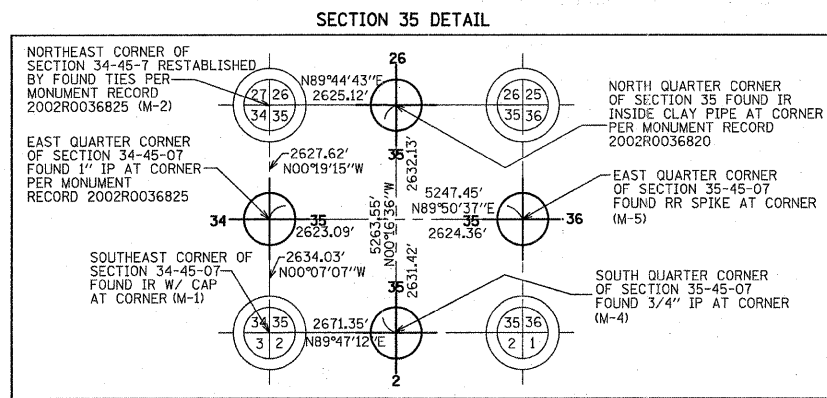
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REBECCA Y. POPECK
 ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-003642
 LICENSE EXPIRATION DATE: NOVEMBER 30, 2010

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RECEIVED
 SEP 10 8 2010
 PLATS & LEGALS



PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT SQUARE FEET	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
1HN0007	RICHARD L. & CINDY L. GIVEN	56.532	0.056	0	56.476	N/A	N/A	N/A	08-34-200-017	

COORDINATE TABLE				
POINT	NORTHING	EASTING	STATION	OFFSET
32	2065900.66	967240.56	135+78.40	62.07 LEFT
33	2065900.64	967246.73	135+82.10	57.07 LEFT
34	2065921.37	967286.03	136+22.44	37.27 LEFT
35	2065921.30	967261.53	136+08.14	57.07 LEFT
36	2066028.33	967332.96	137+40.00	57.09 LEFT
37	2066017.70	967349.89	137+40.00	37.09 LEFT

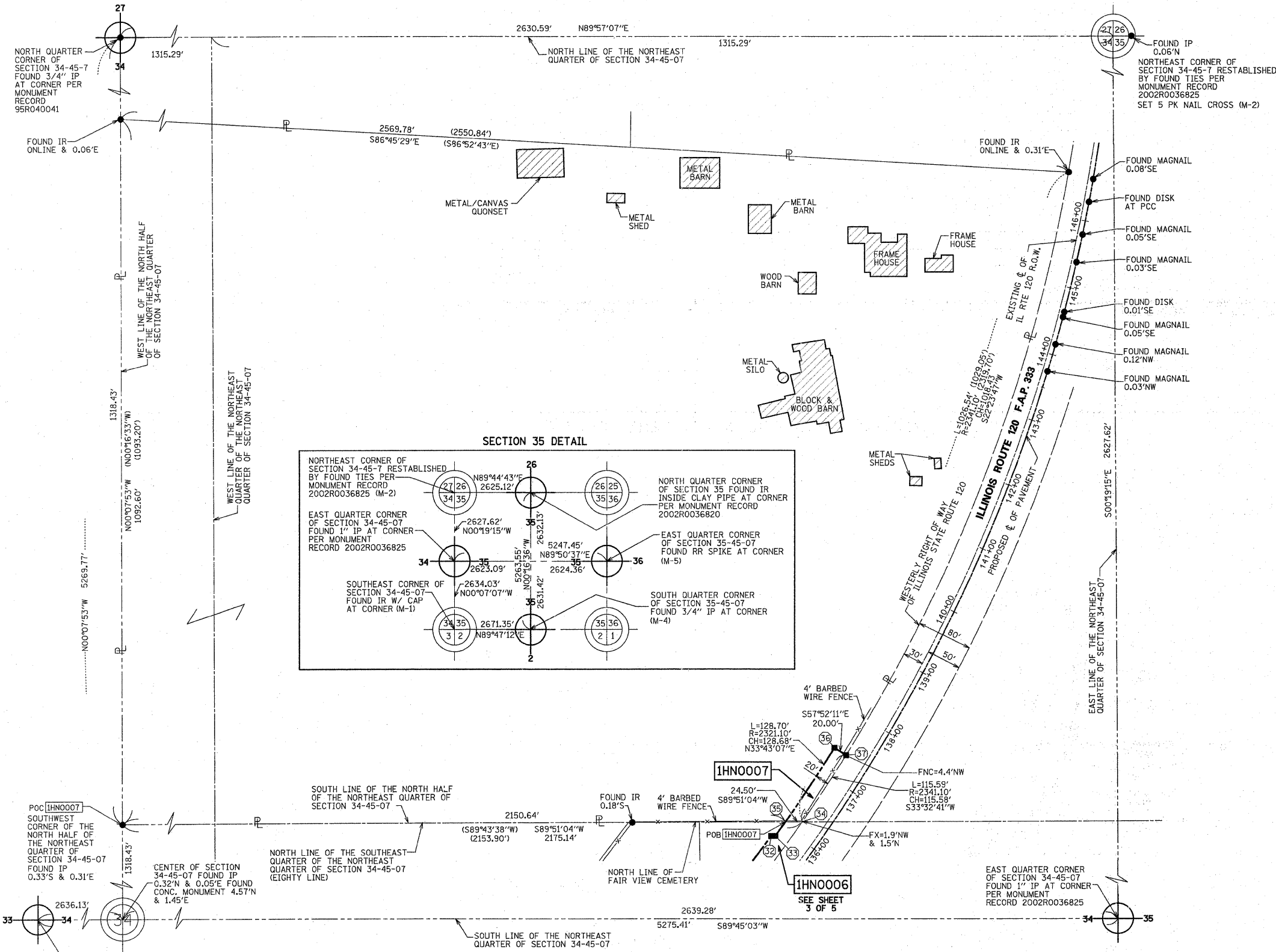
CONSULTING ENGINEERS
SITE DEVELOPMENT ENGINEERS
LAND SURVEYORS

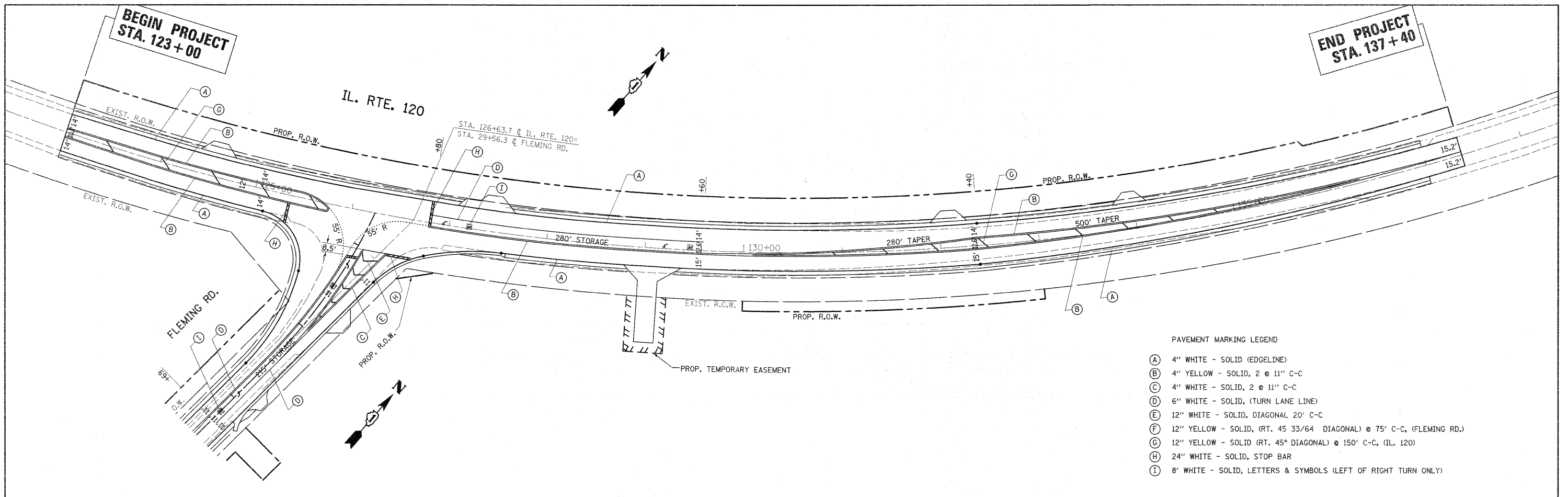
9575 W. Higgins Road, Suite 700
 Rosemont, Illinois 60018
 Phone: (847) 696-4060 Fax: (847) 696-4065

PLAT OF HIGHWAYS
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 F.A.P. 333 (ILLINOIS ROUTE 120)

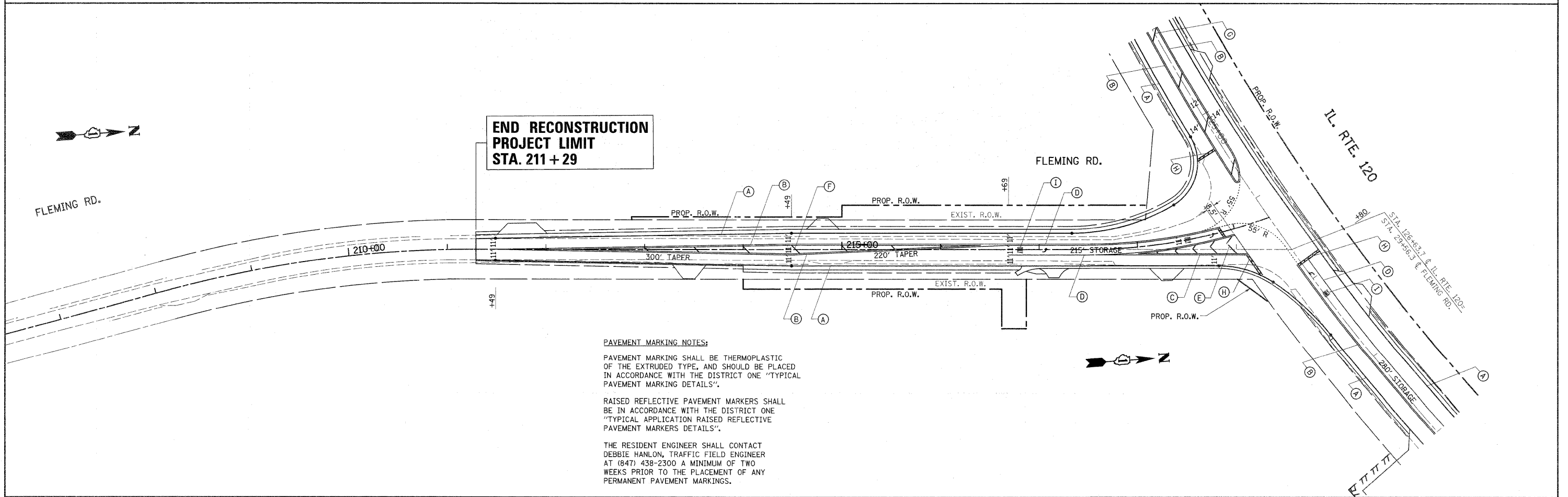
SECTION: AT FLEMING ROAD COUNTY: McHENRY
 PROJECT JOB NO.: R-91-009-07
 STATION 136+00 TO STATION 146+00
 SCALE: 1"=80' SHEET 5 OF 5 G7 34

BUREAU OF LAND ACQUISITION
 201 WEST CENTER COURT
 SCHAUMBURG, ILLINOIS 60196





- PAVEMENT MARKING LEGEND
- (A) 4" WHITE - SOLID (EDGE LINE)
 - (B) 4" YELLOW - SOLID, 2 @ 11" C-C
 - (C) 4" WHITE - SOLID, 2 @ 11" C-C
 - (D) 6" WHITE - SOLID, (TURN LANE LINE)
 - (E) 12" WHITE - SOLID, DIAGONAL 20' C-C
 - (F) 12" YELLOW - SOLID, (RT. 45 33/64 DIAGONAL) @ 75' C-C, (FLEMING RD.)
 - (G) 12" YELLOW - SOLID (RT. 45° DIAGONAL) @ 150' C-C, (IL. 120)
 - (H) 24" WHITE - SOLID, STOP BAR
 - (I) 8' WHITE - SOLID, LETTERS & SYMBOLS (LEFT OF RIGHT TURN ONLY)



PAVEMENT MARKING NOTES:

PAVEMENT MARKING SHALL BE THERMOPLASTIC OF THE EXTRUDED TYPE, AND SHOULD BE PLACED IN ACCORDANCE WITH THE DISTRICT ONE "TYPICAL PAVEMENT MARKING DETAILS".

RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE IN ACCORDANCE WITH THE DISTRICT ONE "TYPICAL APPLICATION RAISED REFLECTIVE PAVEMENT MARKERS DETAILS".

THE RESIDENT ENGINEER SHALL CONTACT DEBBIE HANLON, TRAFFIC FIELD ENGINEER AT (847) 438-2300 A MINIMUM OF TWO WEEKS PRIOR TO THE PLACEMENT OF ANY PERMANENT PAVEMENT MARKINGS.

FILE NAME = P113787-ehs-pmk.dgn

USER NAME = drsvakosgn
 PLOT SCALE = 50.0000' / in.
 PLOT DATE = 7/27/2011

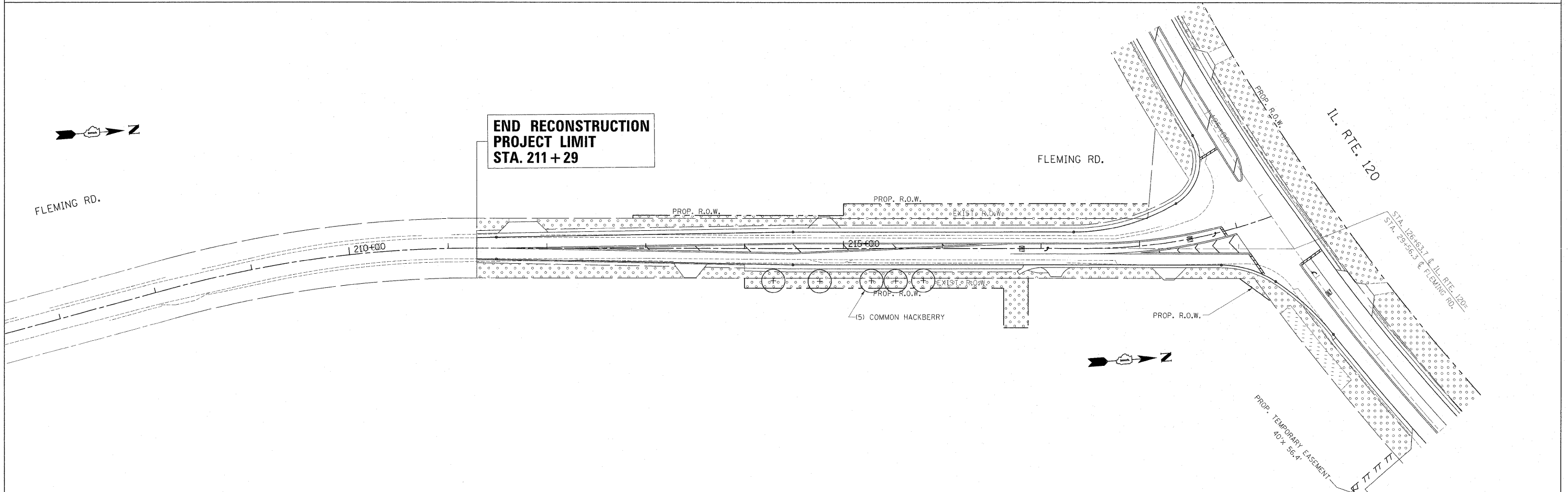
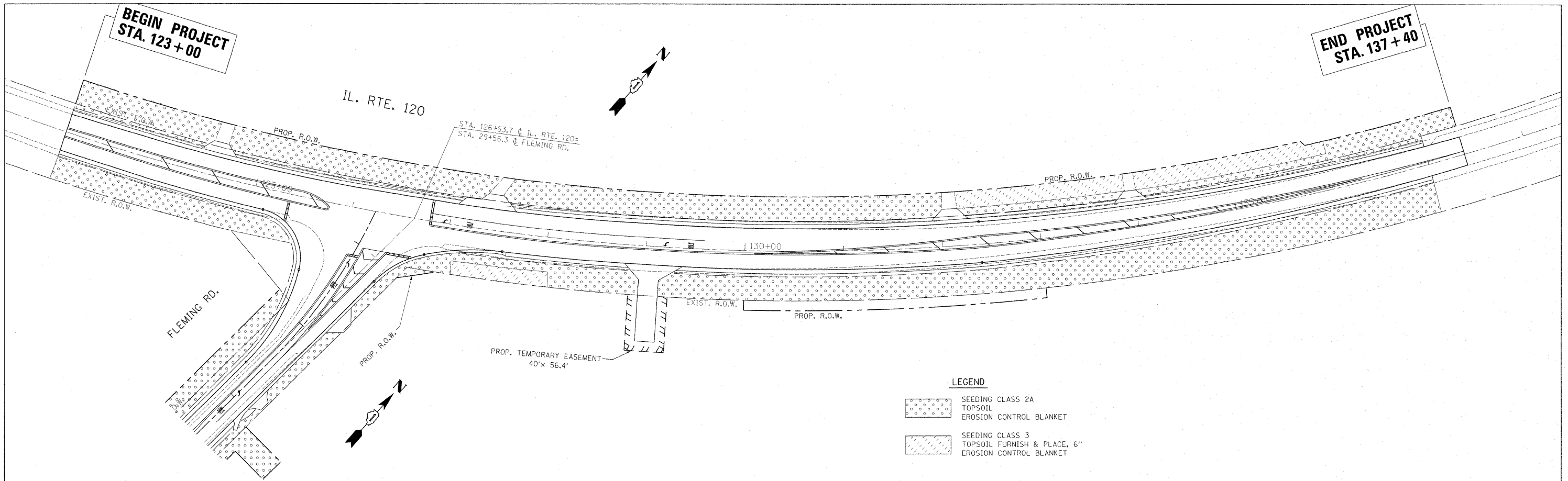
DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

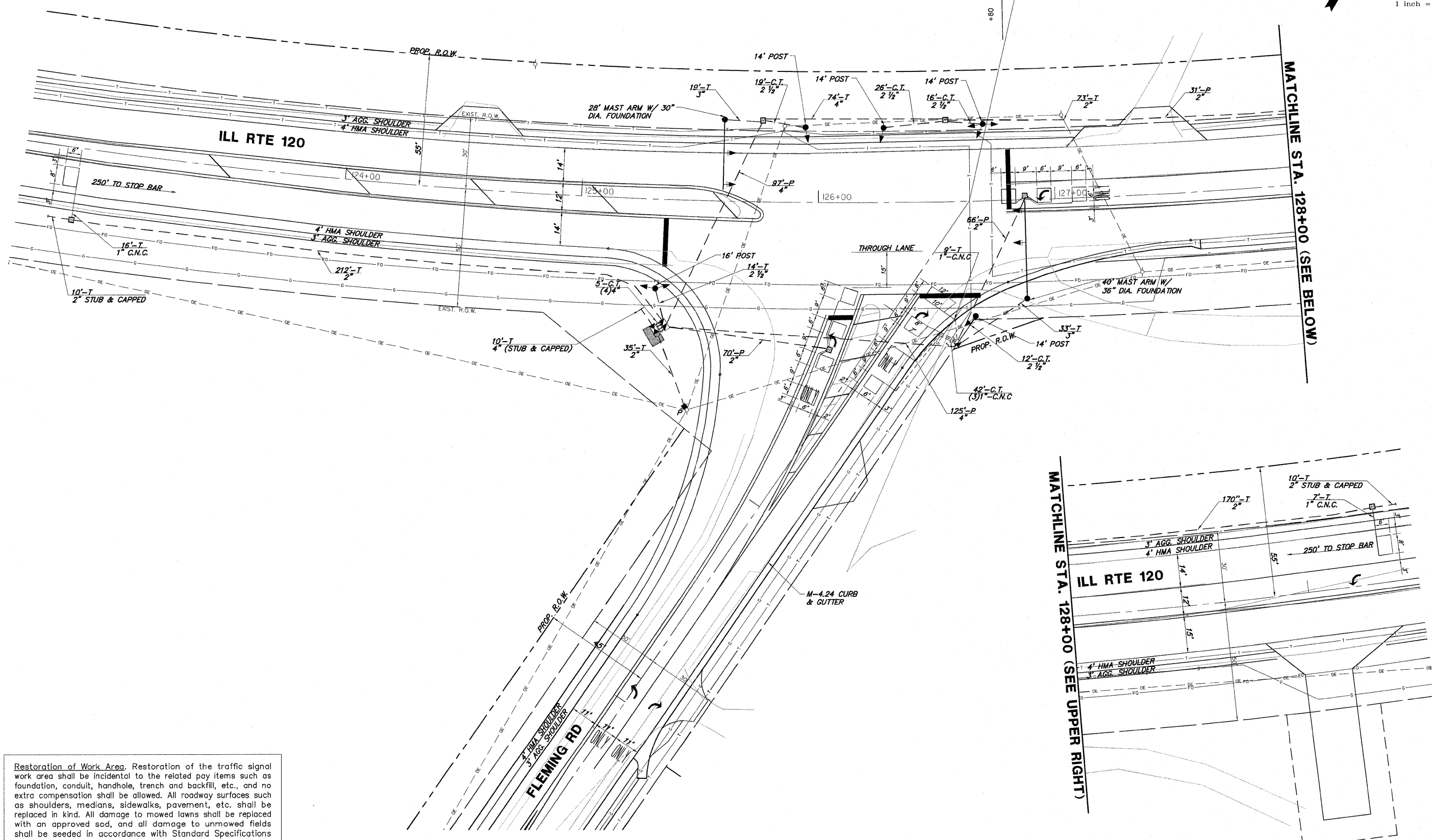
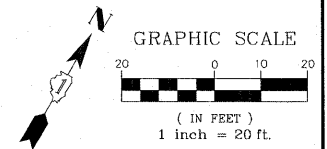
**PAVEMENT MARKING PLAN
IL. ROUTE 120 FLEMING RD.**

SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.

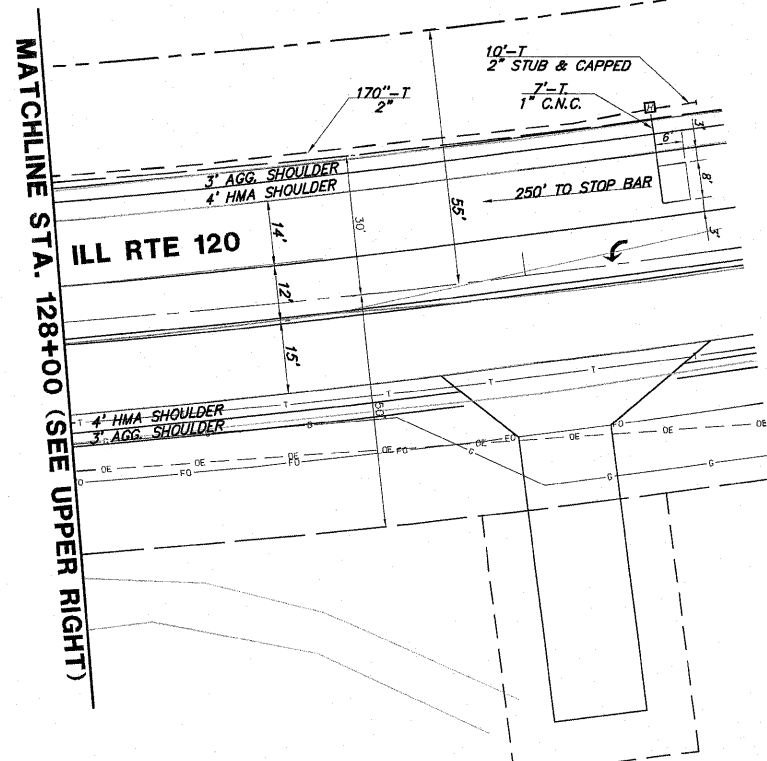
F.A.P. RTE. 333	SECTION 15-N-6	COUNTY McHENRY	TOTAL SHEETS G7	SHEET NO. 35
CONTRACT NO. 60L27				
ILLINOIS FED. AID PROJECT				



FILE NAME = P113707-shr-landscap.dgn	USER NAME = galbanjr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LANDSCAPING PLAN IL. ROUTE 120 AT FLEMING RD.			F.A.P. RTE. 333	SECTION 15-N-6	COUNTY McHENRY	TOTAL SHEETS 67	SHEET NO. 36	
	PLOT SCALE = 50.0000' / 1"	DRAWN -	REVISED -		SCALE: 1" = 50'	SHEET NO.	OF SHEETS	STA.	TO STA.	CONTRACT NO. 60L27			
	PLOT DATE = 9/7/2011	CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT								
		DATE -	REVISED -										



Restoration of Work Area. Restoration of the traffic signal work area shall be incidental to the related pay items such as foundation, conduit, handhole, trench and backfill, etc., and no extra compensation shall be allowed. 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 in accordance with Standard Specifications 252 and 250 respectively.

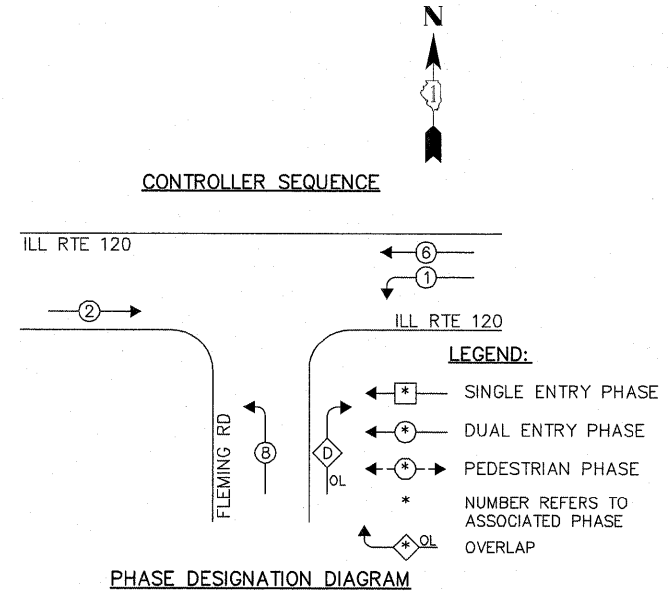
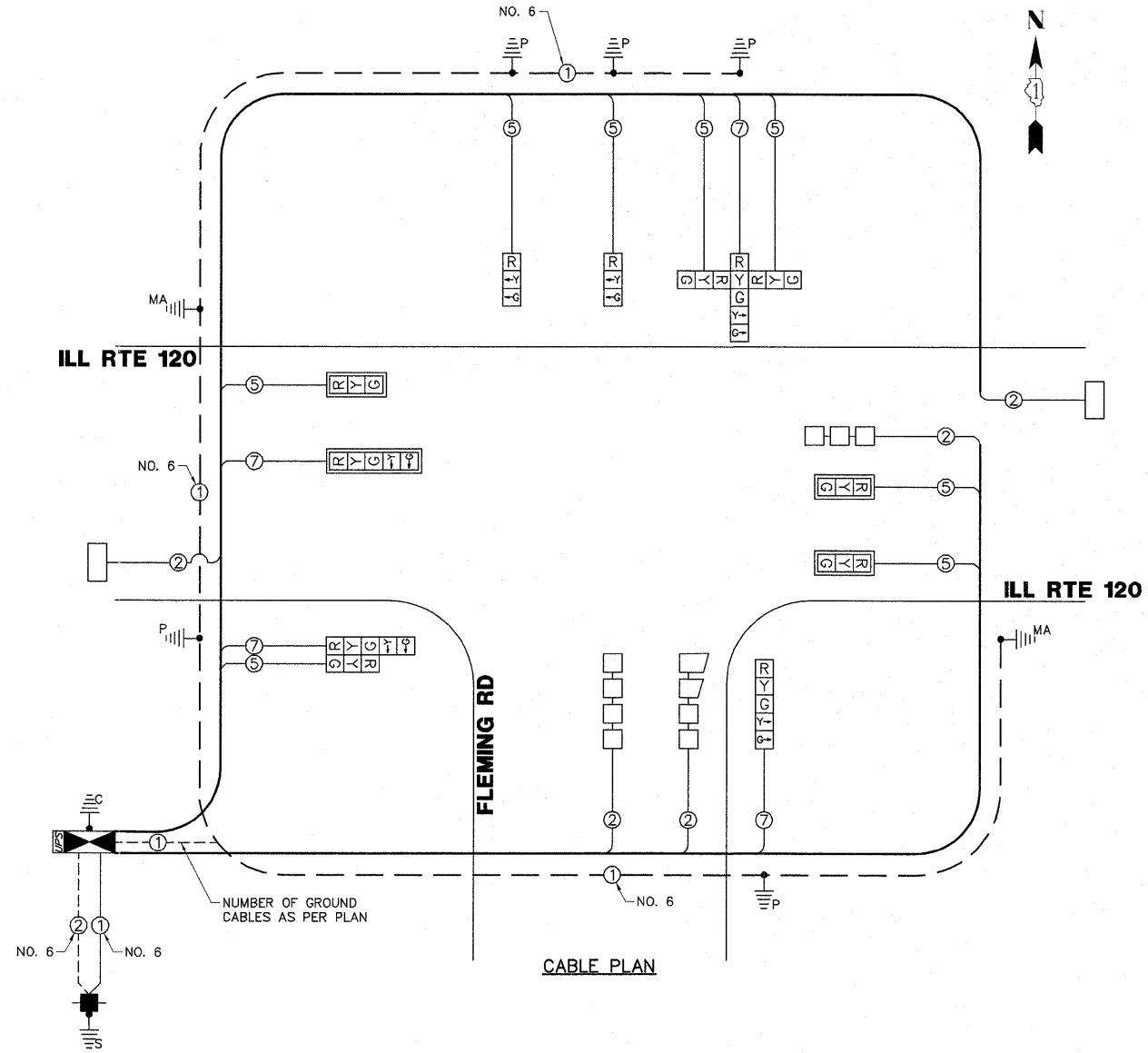


FILE NAME = 4085.876-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL INSTALLATION PLAN ILL RTE 120 AT FLEMING ROAD		F.A.P. RTE. 333	SECTION	COUNTY McHENRY	TOTAL SHEETS 67	SHEET NO. 37
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -				CONTRACT # 60L27	ILLINOIS FED. AID PROJECT			
PLOT DATE = 7/29/2011	DATE - 7/29/2011	REVISED -	REVISED -	SCALE 1"=20'	SHEET NO. OF SHEETS	STA. TO STA.					

GHA #4085.876

SCHEDULE OF QUANTITIES
ILL RTE 120 AT FLEMING ROAD

NO.	QUANT.	UNIT	DESCRIPTION
1.	16.50	SQ FT	SIGN PANEL - TYPE 1
2.	1	EACH	SERVICE INSTALLATION - POLE MOUNTED
3.	510	FOOT	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
4.	87	FOOT	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL
5.	52	FOOT	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL
6.	104	FOOT	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL
7.	167	FOOT	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL
8.	222	FOOT	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL
9.	1	EACH	HANDHOLE
10.	6	EACH	HEAVY-DUTY HANDHOLE
11.	1	EACH	DOUBLE HANDHOLE
12.	665	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
13.	1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET
14.	1	EACH	UNINTERRUPTIBLE POWER SUPPLY
15.	1,613	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
16.	672	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
17.	1,208	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
18.	56	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
19.	453	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
20.	4	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
21.	1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
22.	1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.
23.	1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.
24.	20	FOOT	CONCRETE FOUNDATION, TYPE A
25.	4	FOOT	CONCRETE FOUNDATION, TYPE C
26.	10	FOOT	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER
27.	13	FOOT	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER
28.	3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
29.	3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
30.	1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
31.	1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
32.	1	EACH	SIGNAL HEAD, LED, 3-FACE, 2-3 SECTION, 1-5 SECTION BRACKET MOUNTED
33.	4	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
34.	5	EACH	INDUCTIVE LOOP DETECTOR
35.	470	FOOT	DETECTOR LOOP, TYPE I



OVERLAP LETTER = PERMISSIVE PHASE + PROTECTED PHASE

D = 8 + 1

Restoration of Work Area. Restoration of the traffic signal work area shall be incidental to the related pay items such as foundation, conduit, handhole, trench and backfill, etc., and no extra compensation shall be allowed. 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 in accordance with Standard Specifications 252 and 250 respectively.

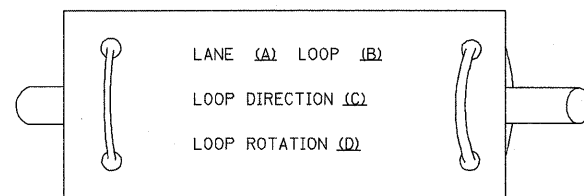
I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	INCAND.	L.E.D.	% OPERATION	
SIGNAL (RED)	12	135	17	0.50	102.0
SIGNAL (YELLOW)	12	135	25	0.25	75.0
SIGNAL (GREEN)	12	135	15	0.25	45.0
ARROW	8	135	12	0.10	9.6
PED. SIGNAL	-	90	25	1.00	-
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					356.6

ENERGY COSTS - BILLED TO: ILL. DEPT. OF TRANSPORTATION
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHAUMBURG, IL 60196-1096
ENERGY SUPPLY - CONTACT: NEW BUSINESS
PHONE: (866) 639-3552
COMPANY: CQM ED

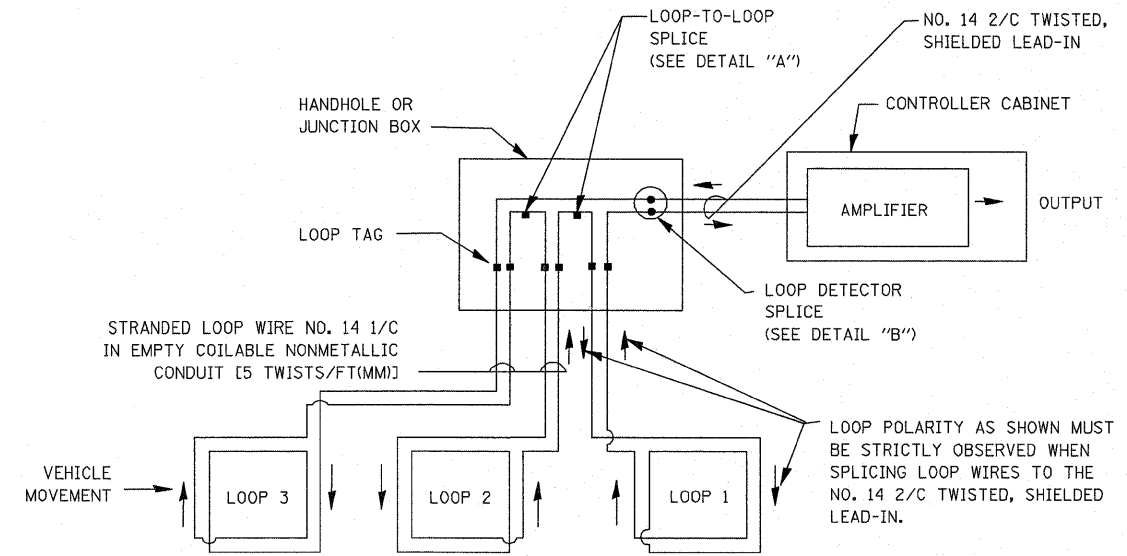
LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT 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.

LOOP LEAD-IN CABLE TAG

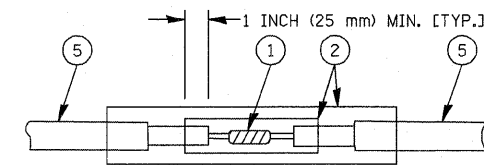


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

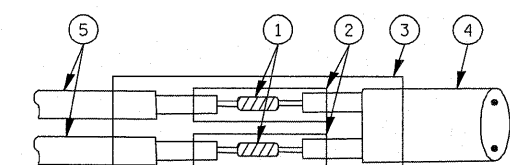


DETECTOR LOOP WIRING SCHEMATIC

- 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.

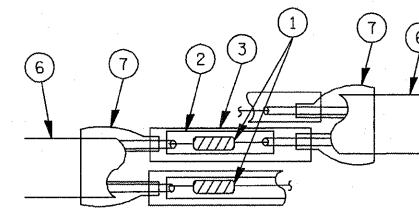


DETAIL "A"
LOOP-TO-LOOP SPLICE

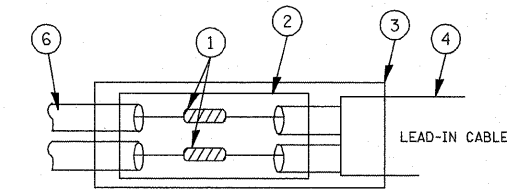


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

PREFORMED LOOP

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.
- 6 PREFORMED LOOP
- 7 XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

FILE NAME =	USER NAME = ZACH WALLSTEN
4085.876-TR1.dwg	

DESIGNED - DAD	REVISIONS -
DRAWN - BCK	REVISIONS -
CHECKED - DAD	REVISIONS -
DATE - 10-28-09	REVISIONS -

PLOT SCALE = 1" = .0833'	
PLOT DATE = 7/29/2011	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

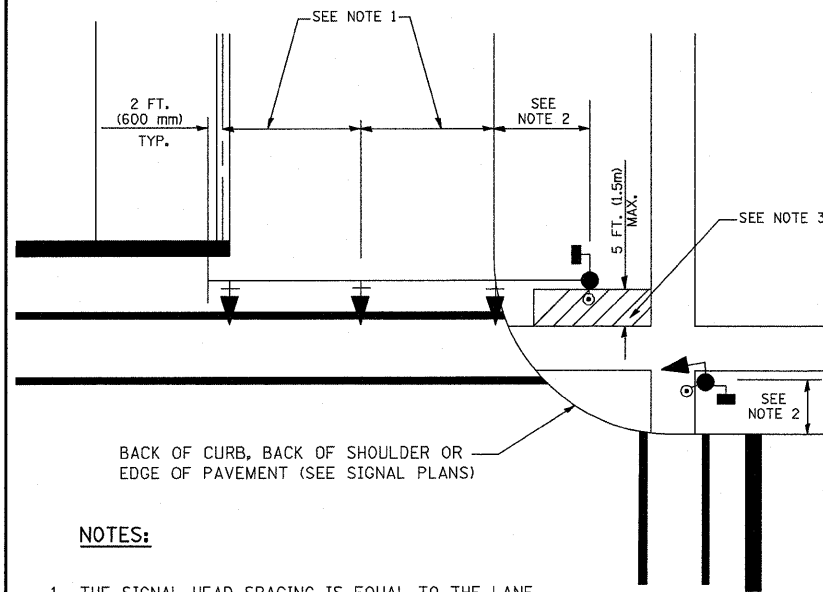
SCALE: NONE SHEET NO. 1 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333		McHENRY	67	39
TS-05			CONTRACT #:	60L27
ILLINOIS FED. AID PROJECT				

GHA #4085.876

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

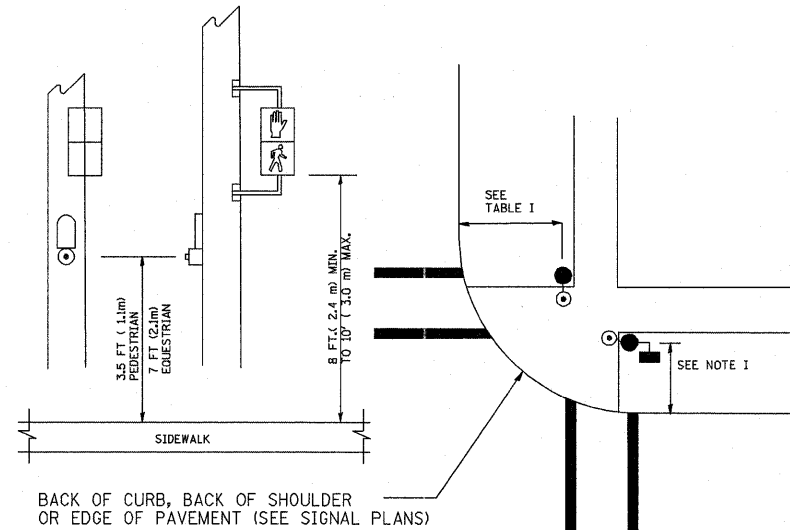
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

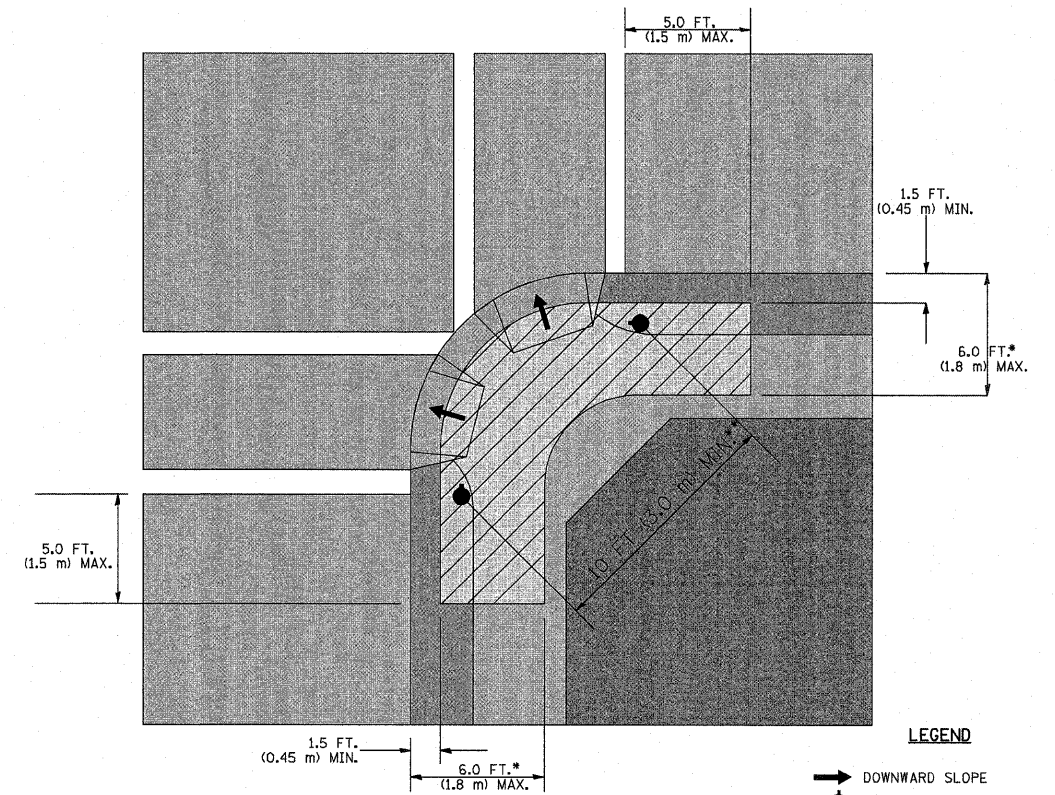
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

RECOMMENDED PUSHBUTTON LOCATIONS



LEGEND

- DOWNWARD SLOPE
- PEDESTRIAN PUSHBUTTON
- ▨ RECOMMENDED PUSHBUTTON LOCATIONS

- * WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- ** WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.

THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.

THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.

THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.

THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

TRAFFIC SIGNAL EQUIPMENT OFFSET

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

NOTES:

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

FILE NAME = 4085.876-TR1.dwg

USER NAME = ZACH WALLSTEN
 PLOT SCALE = 1" = .0833'
 PLOT DATE = 7/29/2011

DESIGNED - DAD
 DRAWN - BCK
 CHECKED - DAD
 DATE - 10-28-09

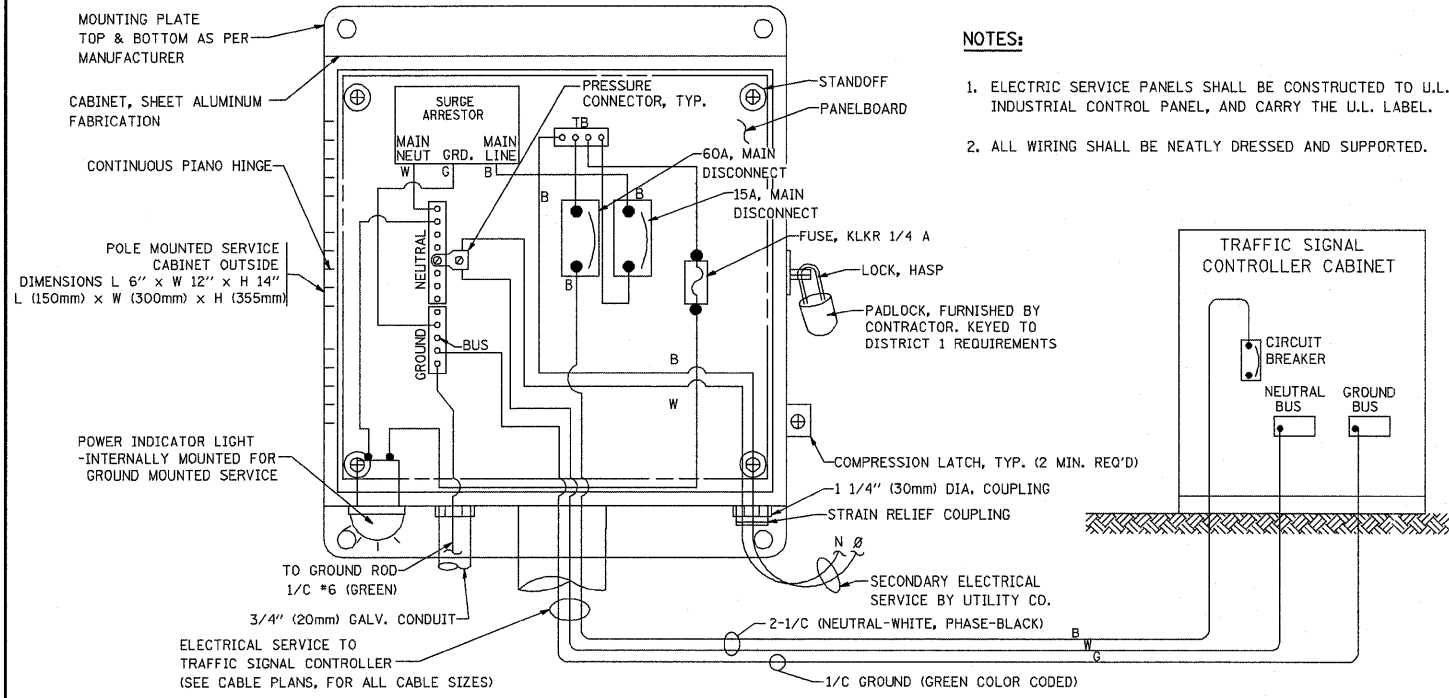
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

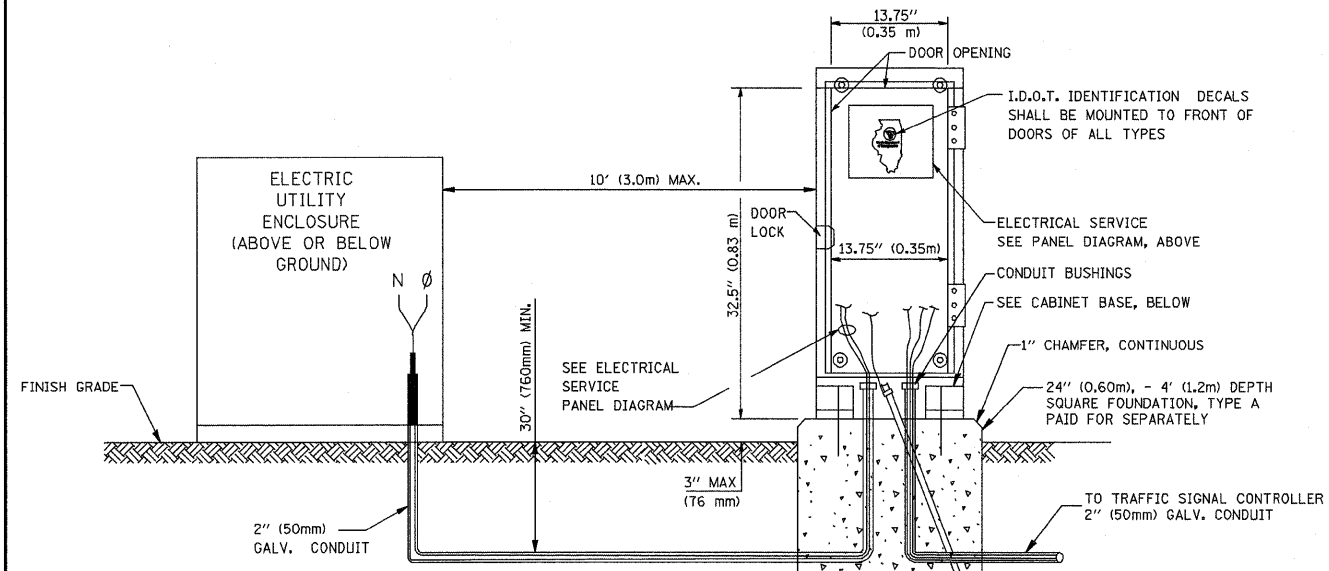
**DISTRICT ONE
 STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

F.A.P. RTE 333
 SECTION TS-05
 COUNTY McHENRY
 TOTAL SHEETS 67
 SHEET NO. 40
 CONTRACT # 60L27
 ILLINOIS FED. AID PROJECT

GHA #4085.876

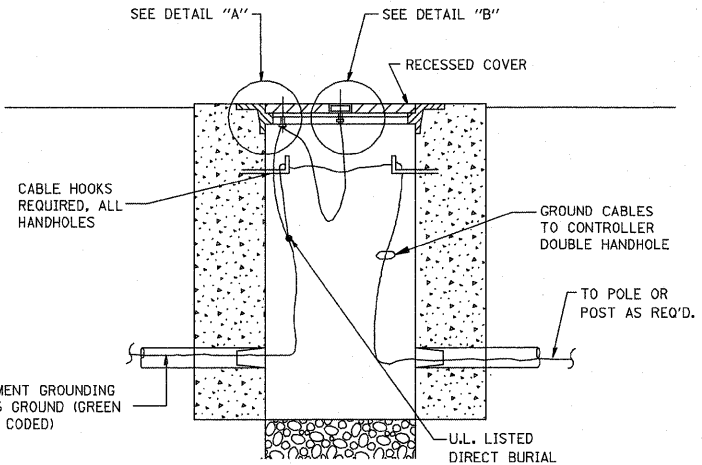
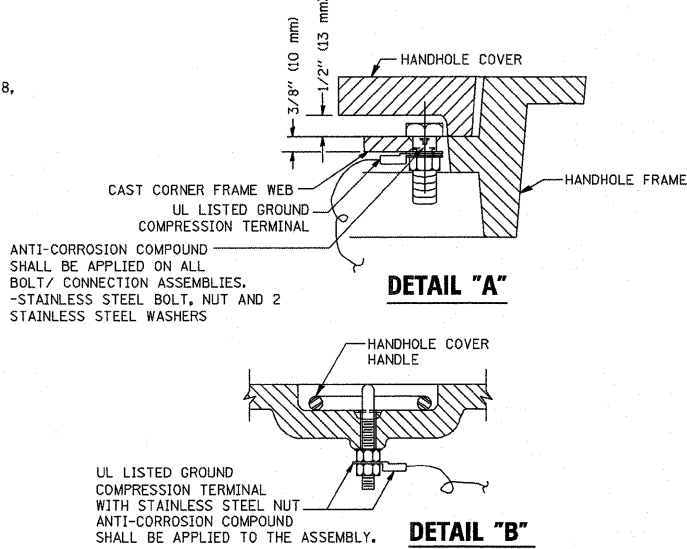
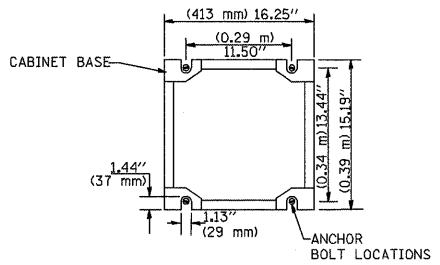


ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
 (NOT TO SCALE)

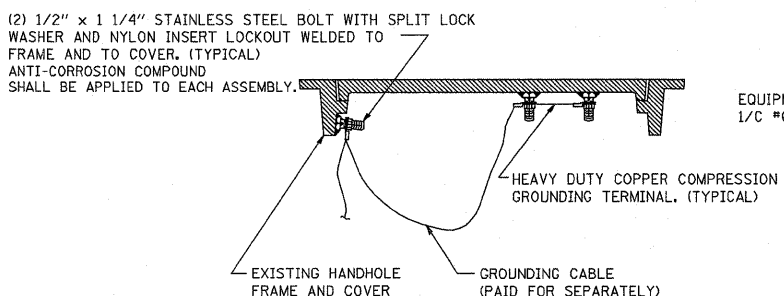


SERVICE INSTALLATION GROUND MOUNT
 (NOT TO SCALE)

CABINET - BASE BOLT PATTERN
 (NOT TO SCALE)

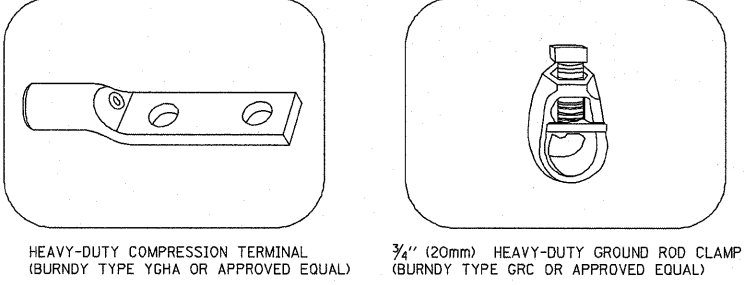


HANDHOLE COVER & FRAME - GROUNDING DETAIL
 (NOT TO SCALE)

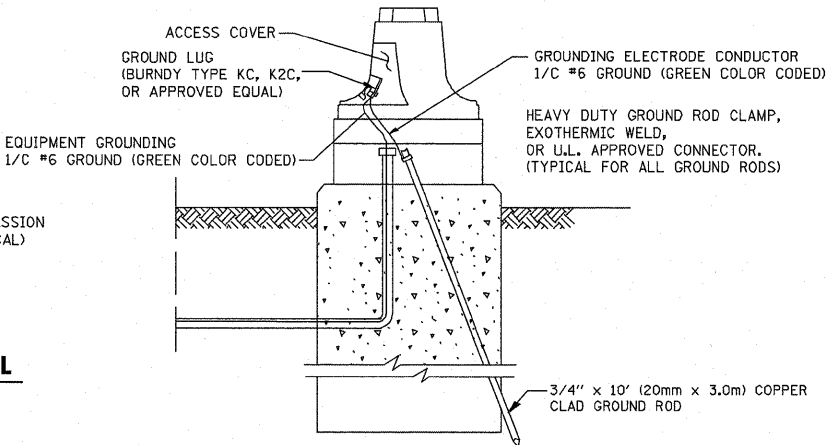


EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL
 (NOT TO SCALE)

- NOTES:**
- GROUNDING SYSTEM**
- 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.
 - 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.
 - ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
 - THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.

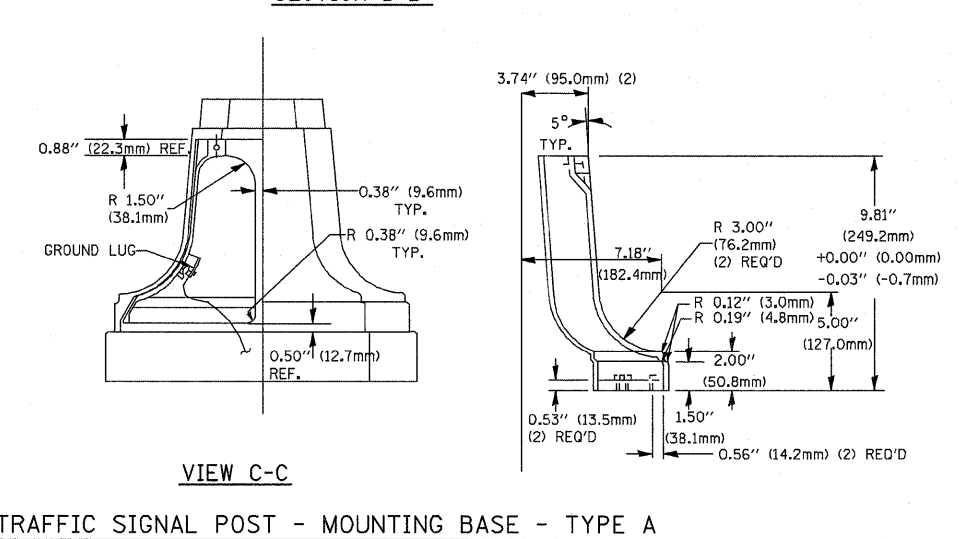
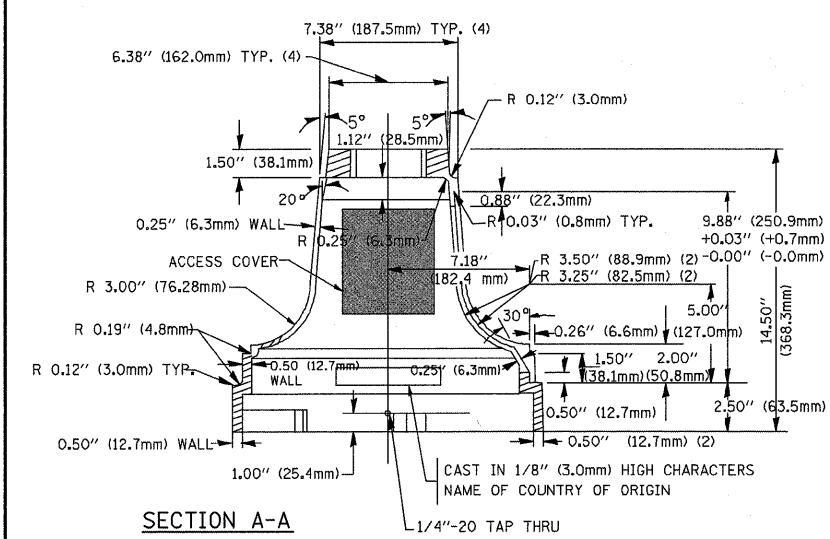
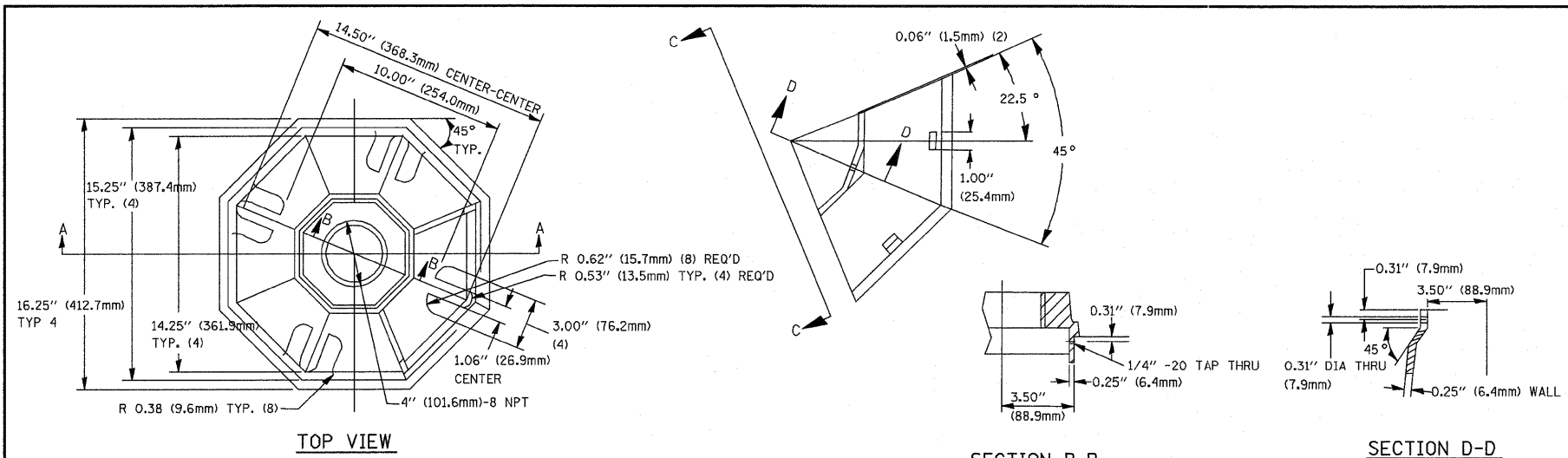


- NOTES:**
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
 - GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.

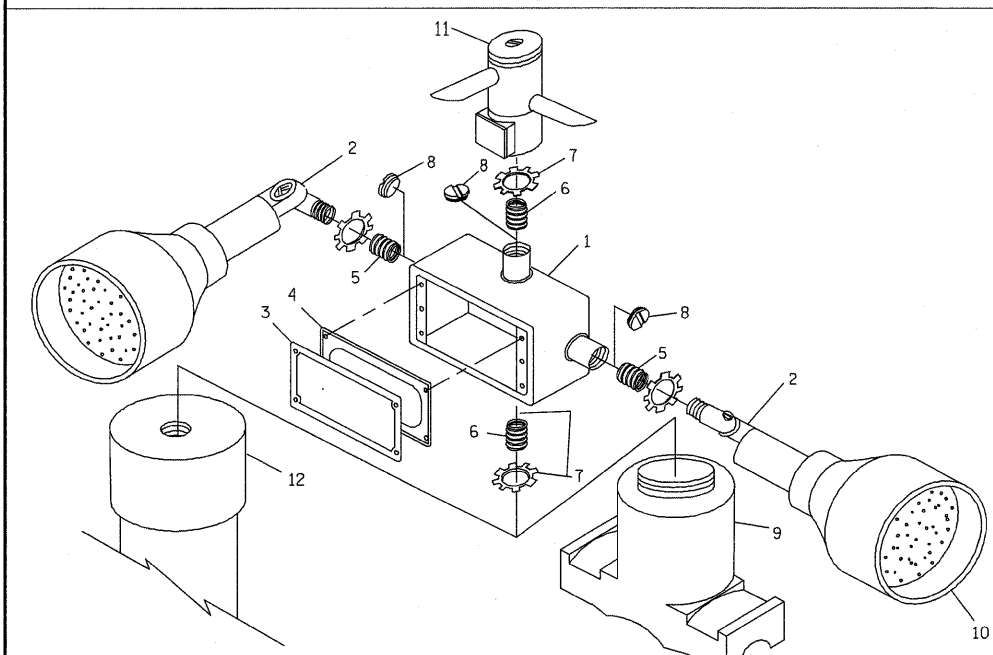


MAST ARM POLE / POST-GROUNDING DETAIL
 (NOT TO SCALE)

FILE NAME = 4085.876-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - DAD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS		F.A.P. RTE 333	SECTION TS-05	COUNTY McHENRY	TOTAL SHEETS 67	SHEET NO. 41	
PLOT SCALE = 1" = .0833'	CHECKED - DAD	REVISED -	REVISED -		SCALE NONE	SHEET NO. 3 OF 6 SHEETS	STA. TO STA.	CONTRACT # 60L27	ILLINOIS FED. AID PROJECT			
PLOT DATE = 7/29/2011	DATE - 10-28-09	REVISED -	REVISED -		GHA #4085.876							



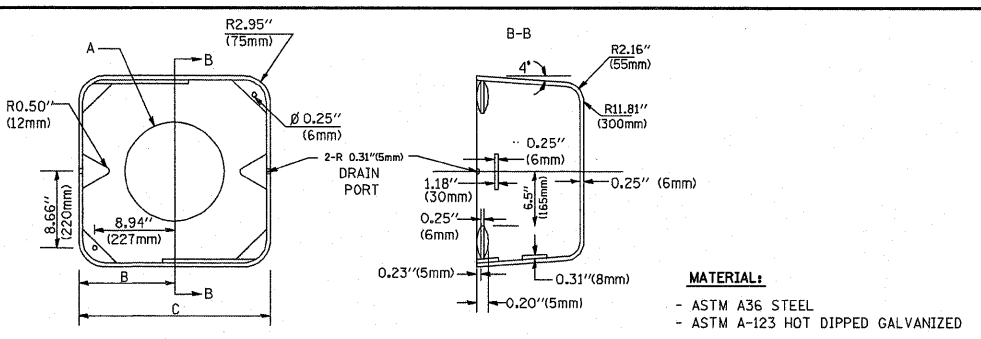
TRAFFIC SIGNAL POST - MOUNTING BASE - TYPE A



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\"/>
7	3/4\"/>
8	3/4\"/>
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP (18 FT. (5.4 m) POST MIN.)

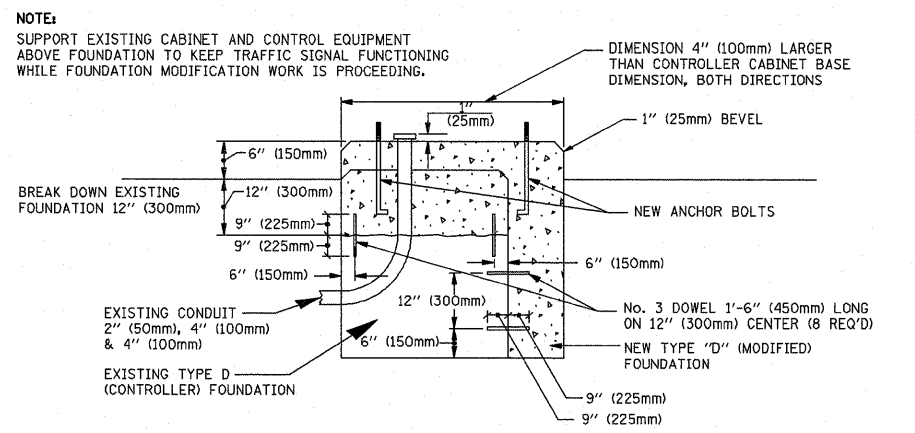
- NOTES:**
- ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
 - ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
 - WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4\"/>

POST CAP MOUNT MAST ARM MOUNT
EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

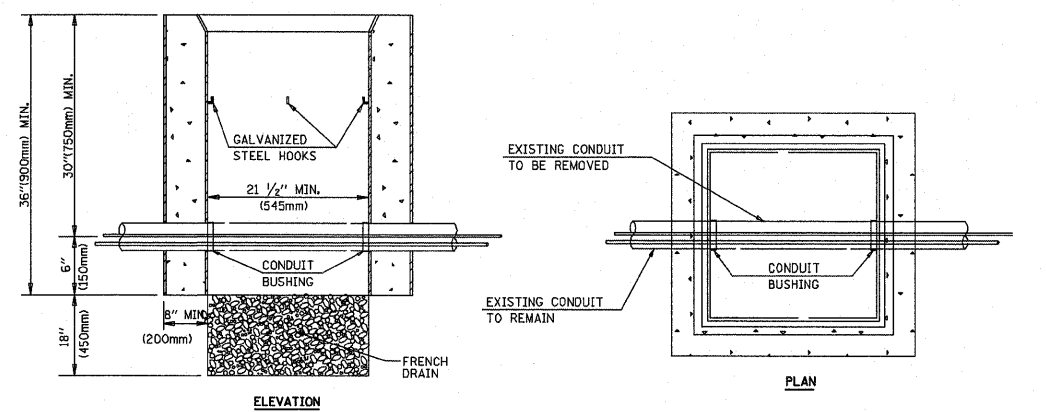


A	B	C	HEIGHT	WEIGHT
VARIES	9.5\"/>			
VARIES	10.75\"/>			
VARIES	13.0\"/>			
VARIES	18.5\"/>			

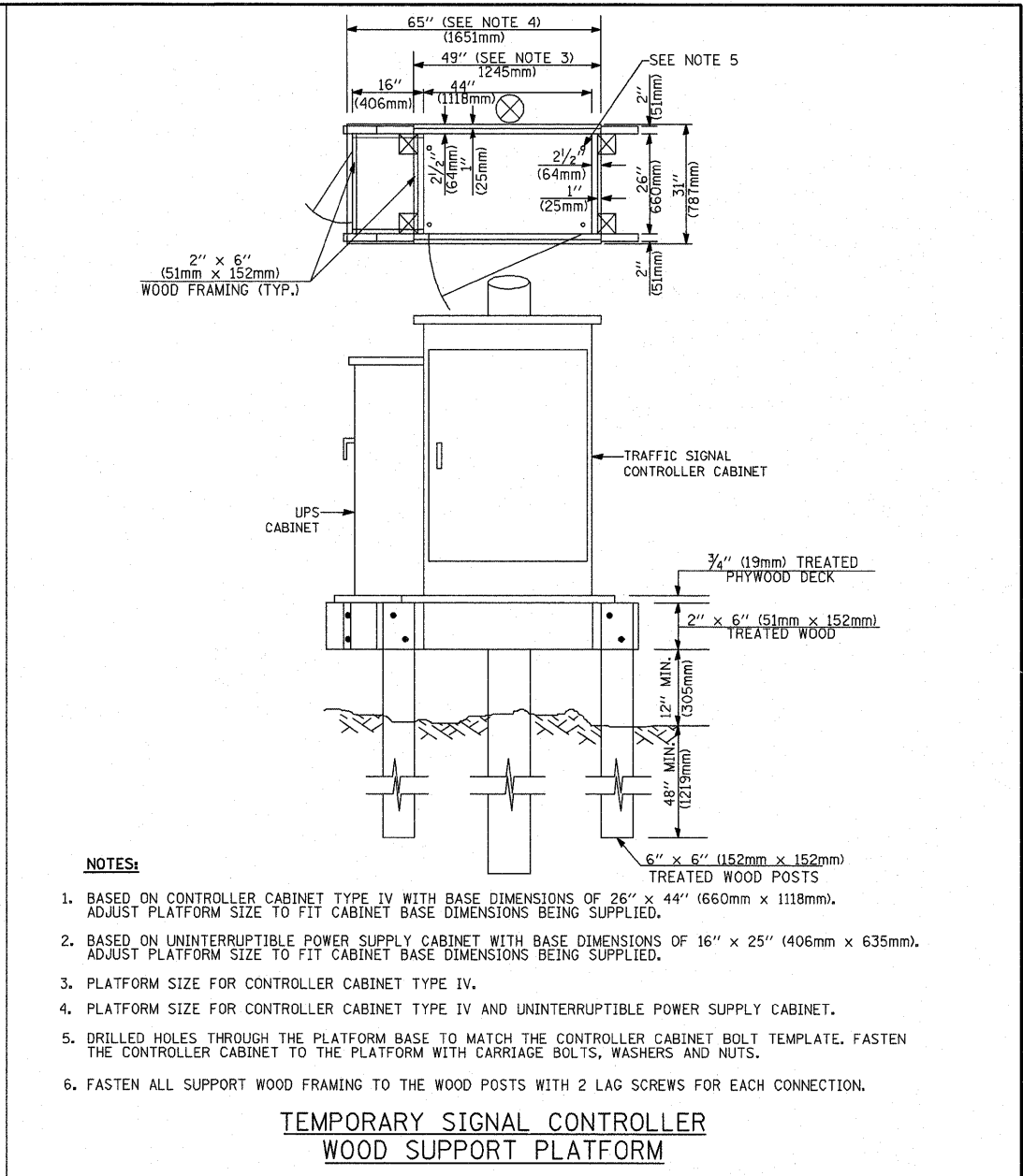
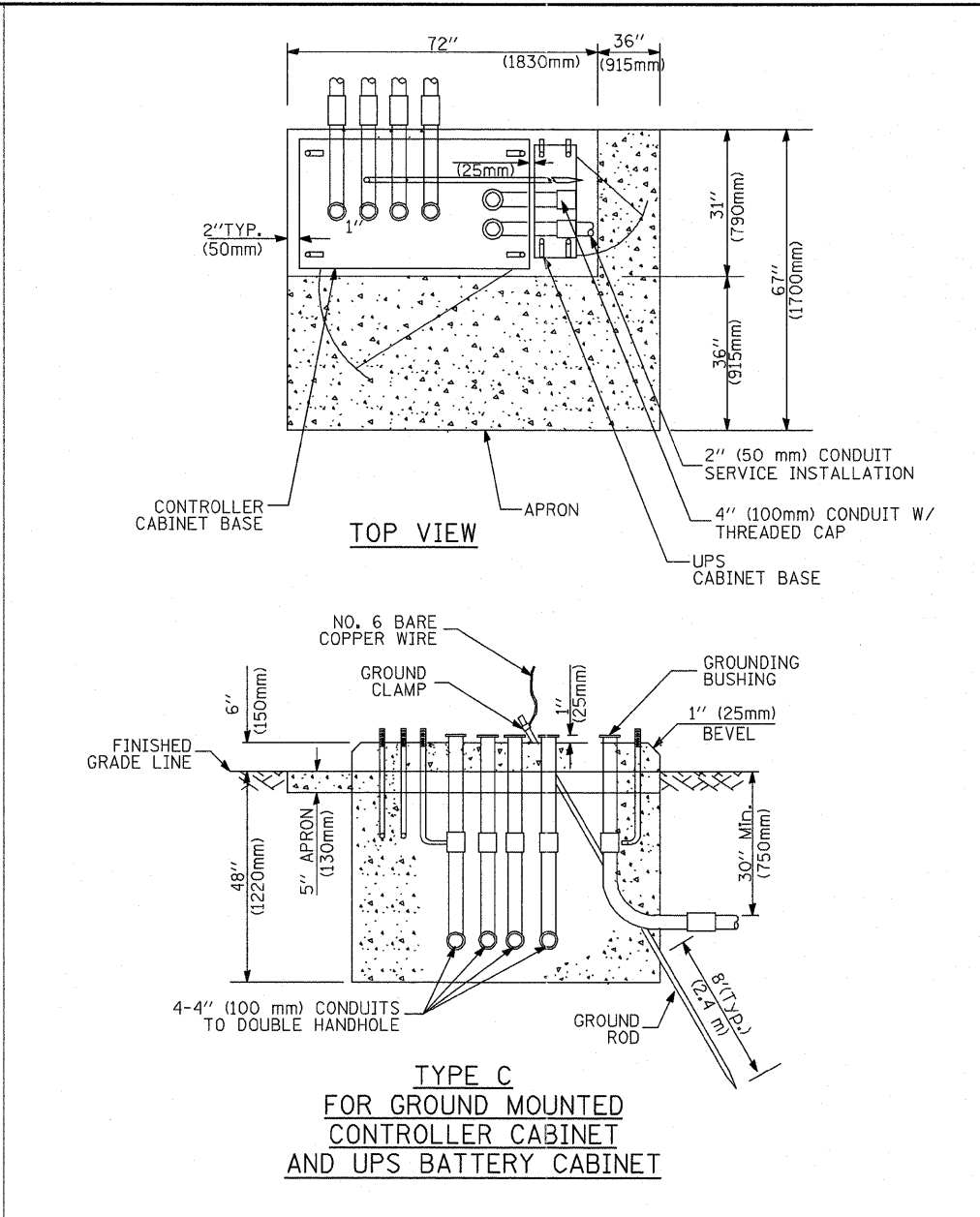
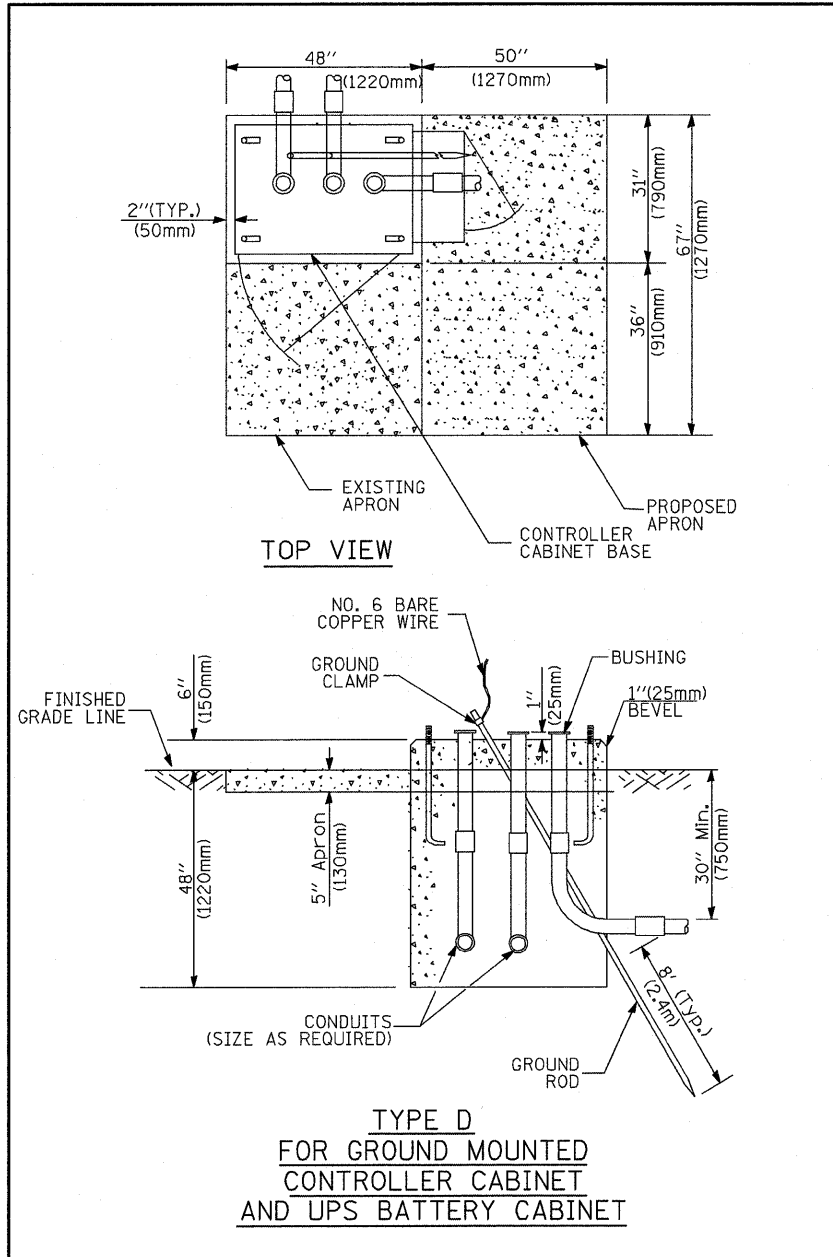
- NOTES:**
- DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
 - THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
 - THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.



MODIFY EXISTING TYPE "D" FOUNDATION



- NOTES:**
- HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
 - REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCIDENTAL TO THE HANDHOLE.



CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

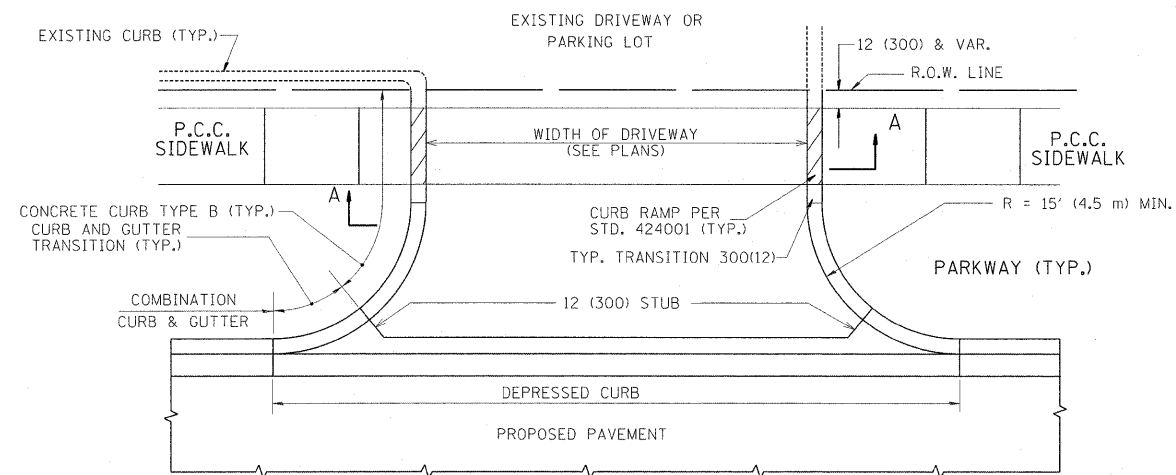
Mast Arm Length	Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and up to 56' (16.8 m) and less than 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

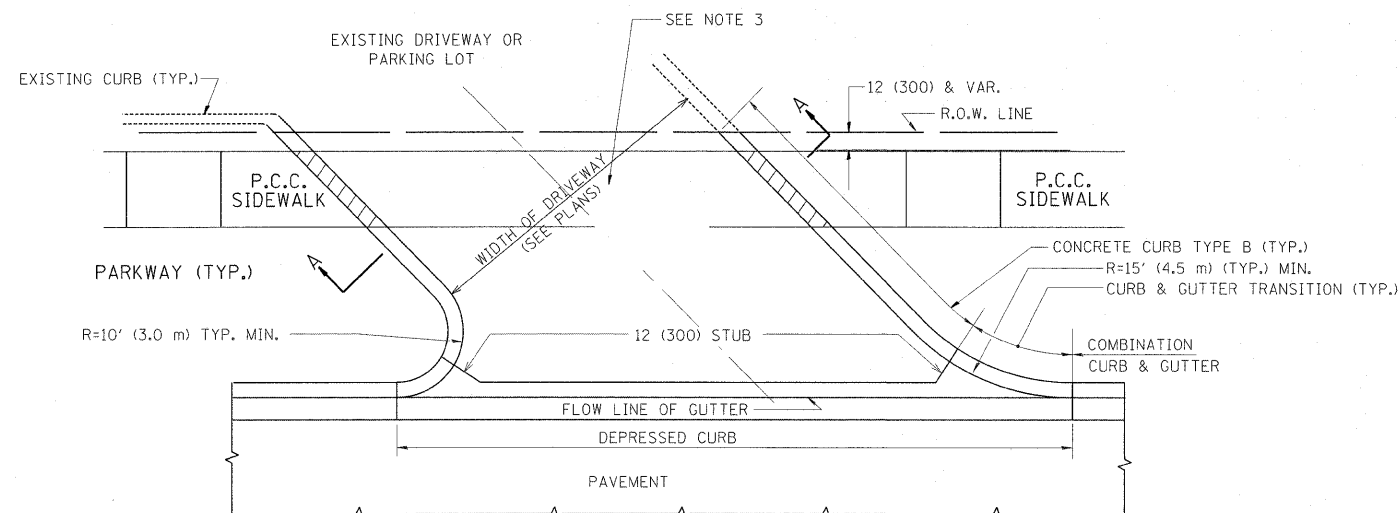
- These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
- Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
- Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
- For mast arm assemblies with dual arms refer to state standard 878001.

TRAFFIC SIGNAL LEGEND

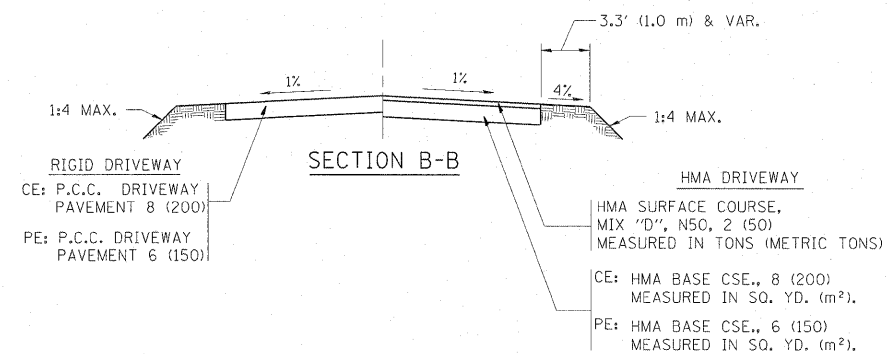
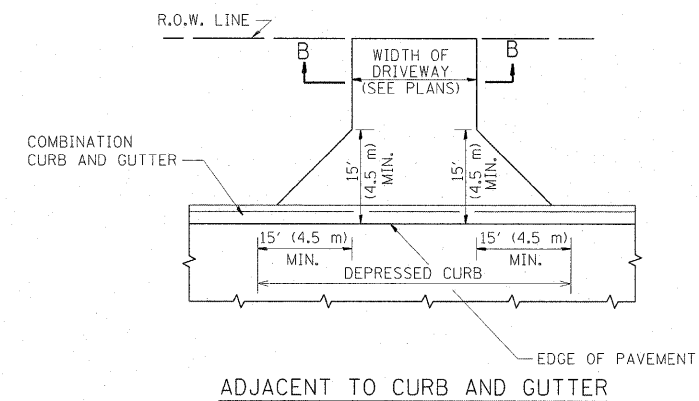
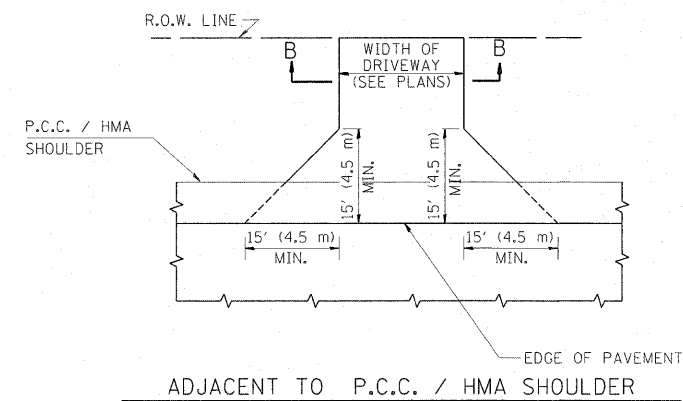
ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED												
CONTROLLER CABINET				EMERGENCY VEHICLE LIGHT DETECTOR				ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE															
RAILROAD CONTROL CABINET				CONFIRMATION BEACON				COAXIAL CABLE															
COMMUNICATIONS CABINET				HANDHOLE				VENDOR CABLE FOR CAMERA															
MASTER CONTROLLER				HEAVY DUTY HANDHOLE				COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED															
MASTER MASTER CONTROLLER				DOUBLE HANDHOLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F															
UNINTERRUPTIBLE POWER SUPPLY				JUNCTION BOX				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F															
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT				GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)				FIBER OPTIC CABLE NO. 62.5/125, MM12F															
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT				TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE				FIBER OPTIC CABLE NO. 62.5/125, (NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS)															
STEEL MAST ARM ASSEMBLY AND POLE				COMMON TRENCH				GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE															
ALUMINUM MAST ARM ASSEMBLY AND POLE				COILABLE NONMETALLIC CONDUIT (EMPTY)				CONTROLLER CABINET AND FOUNDATION TO BE REMOVED															
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE				SYSTEM ITEM				STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED															
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA				INTERSECTION ITEM				ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED															
SIGNAL POST				REMOVE ITEM				STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED															
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM				RELOCATE ITEM				SIGNAL POST AND FOUNDATION TO BE REMOVED															
GUY WIRE				ABANDON ITEM				INTERSECTION & SAMPLING (SYSTEM) DETECTOR															
SIGNAL HEAD				12" (300mm) TRAFFIC SIGNAL SECTION				SAMPLING (SYSTEM) DETECTOR															
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)				12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE				EXISTING INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR															
SIGNAL HEAD WITH BACKPLATE				SIGNAL FACE				EXISTING PREFORMED INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR															
SIGNAL HEAD OPTICALLY PROGRAMMED				SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD				PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR															
FLASHER INSTALLATION (S DENOTES SOLAR POWER)				12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL				PREFORMED SAMPLING (SYSTEM) DETECTOR															
PEDESTRIAN SIGNAL HEAD				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED				<h2 style="margin: 0;">RAILROAD SYMBOLS</h2> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">EXISTING</th> <th style="width: 50%;">PROPOSED</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> </tbody> </table>				EXISTING	PROPOSED										
EXISTING	PROPOSED																						
PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID																			
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR				PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER																			
ILLUMINATED SIGN "NO LEFT TURN"				RADIO INTERCONNECT																			
ILLUMINATED SIGN "NO RIGHT TURN"				RADIO REPEATER																			
DETECTOR LOOP, TYPE I				DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED																			
PREFORMED DETECTOR LOOP				GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)																			
MICROWAVE VEHICLE SENSOR																							
VIDEO DETECTION CAMERA																							
VIDEO DETECTION ZONE																							
PAN, TILT, ZOOM CAMERA																							
WIRELESS DETECTOR SENSOR																							
WIRELESS ACCESS POINT																							



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.

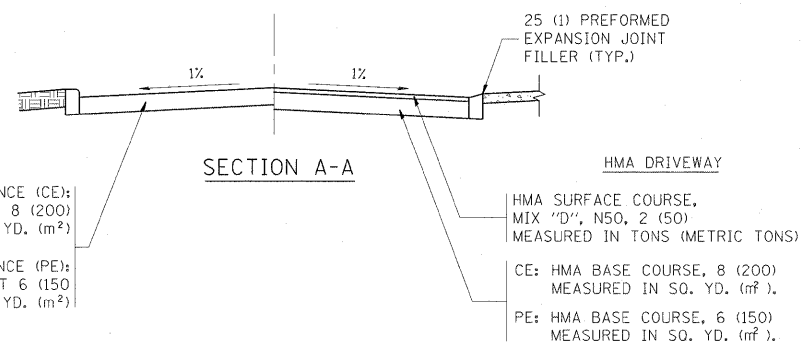
COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

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.



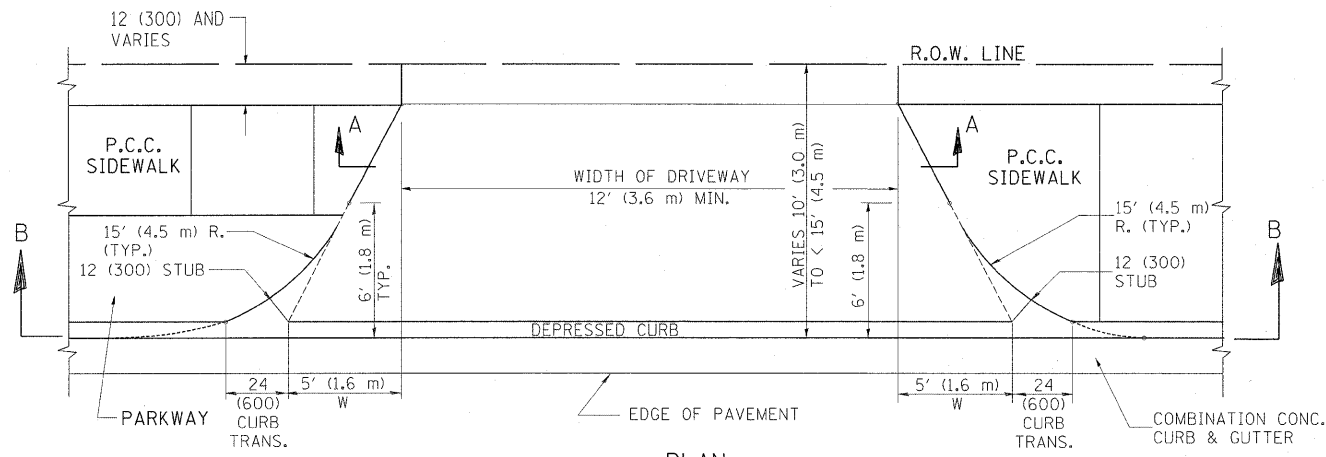
FILE NAME =	USER NAME = galbanjr	DESIGNED - R. SHAH	REVISED - P. LoFLUER 04-15-03
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		CHECKED -	REVISED - R. BORO 06-11-08
		DATE - 11-04-95	REVISED - R. BORO 09-06-11

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

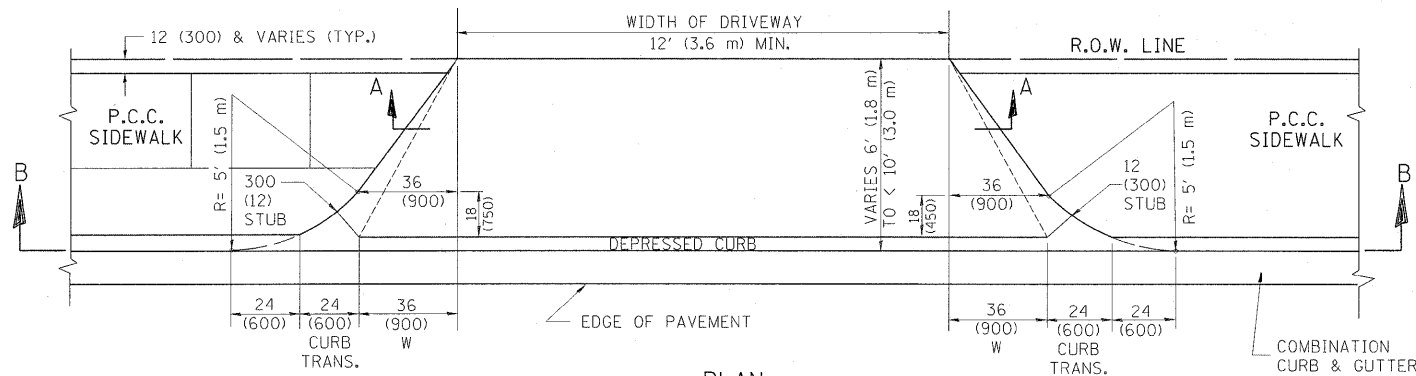
DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W.
AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m)

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

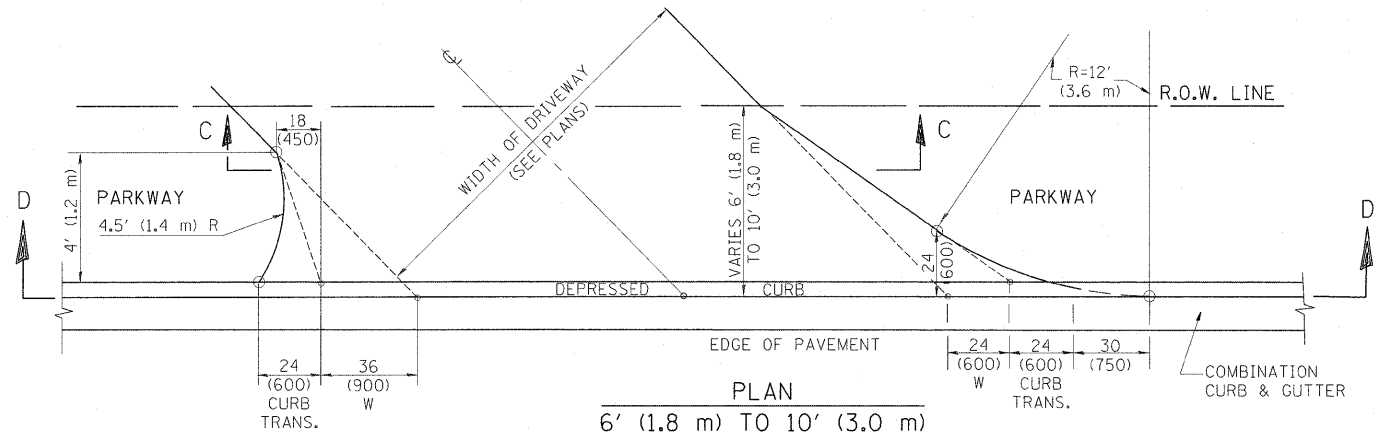
F.A.P. RTE. 333	SECTION 15-N-6	COUNTY MCHENRY	TOTAL SHEETS 67	SHEET NO. 46
BD0156-07 (BD-01)			CONTRACT NO. 60L27	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



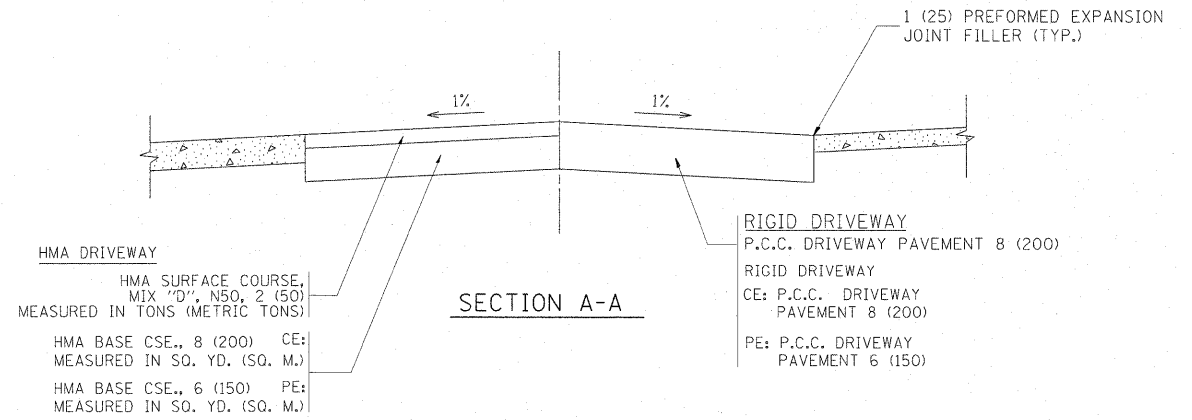
PLAN
10' (3.0 m) TO < 15' (4.5 m)



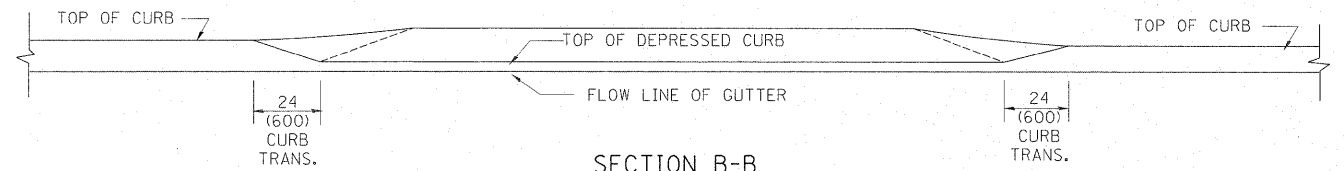
PLAN
6' (1.8 m) TO < 10' (3.0 m)



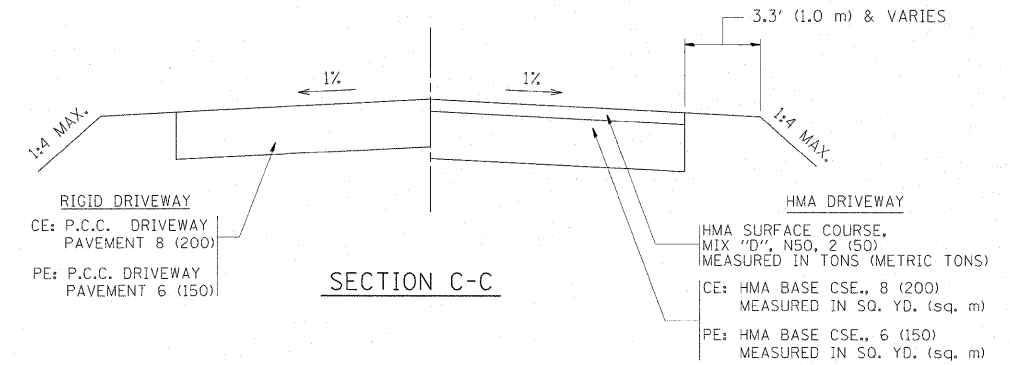
PLAN
6' (1.8 m) TO 10' (3.0 m)



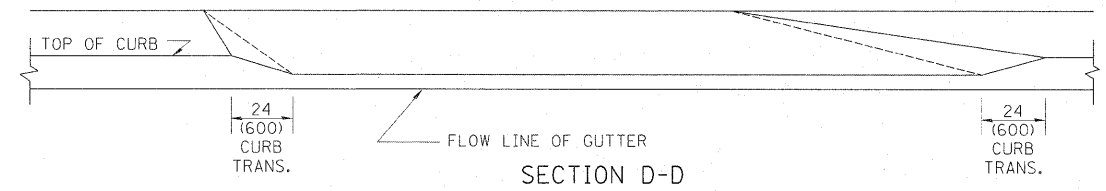
SECTION A-A



SECTION B-B



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.

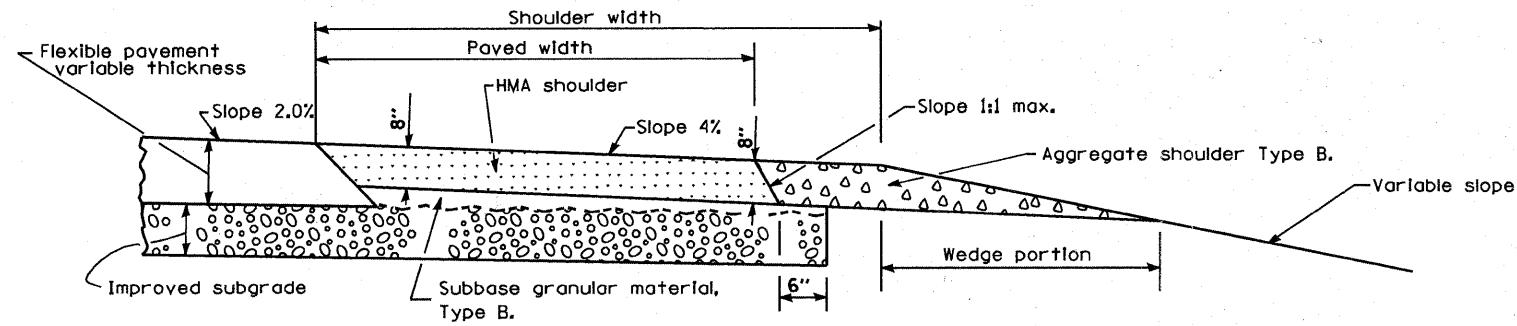
COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

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.

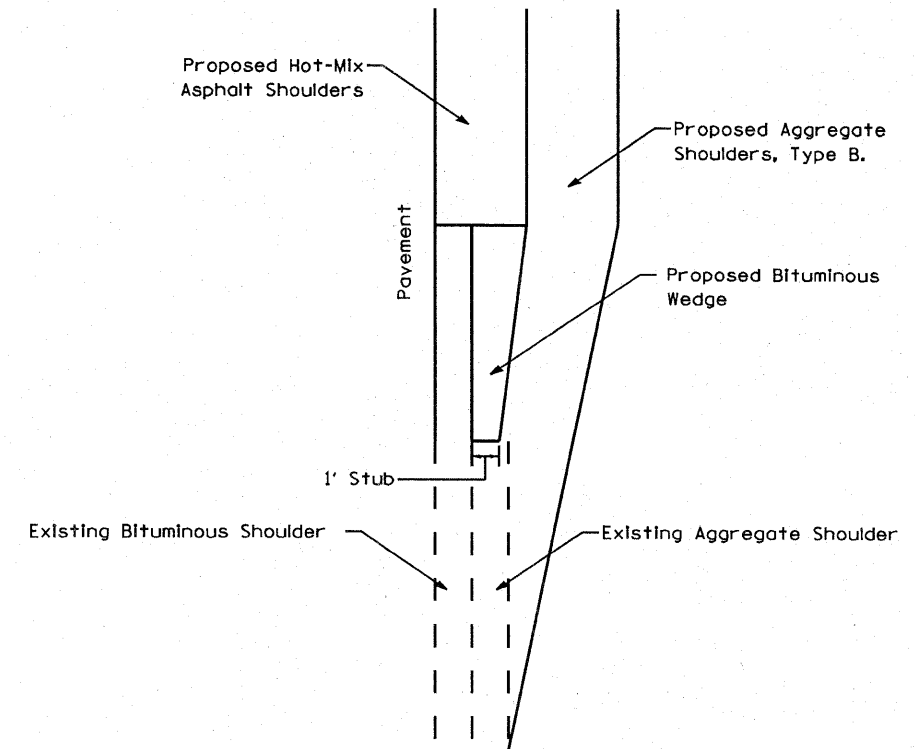
"W" VARIES FROM 36 (900) TO 5' (1.5 m) PROPORTIONAL TO THE LENGTH (L), FROM 6' (1.8 m) TO 10' (3 m).

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

FILE NAME =	USER NAME = galbenjr	DESIGNED - R. SHAH	REVISED - M. GOMEZ 04-06-01	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRIVEWAY DETAILS			F.A.P. RTE. 333	SECTION 15-N-6	COUNTY MCHENRY	TOTAL SHEETS 67	SHEET NO. 47
c:\pwork\pwork\galbenjr\d010\803\Dist	std.dgn	DRAWN -	REVISED - P. LOFLEUR 04-15-03		DISTANCE BETWEEN ROW AND FACE OF CURB < 15' (4.5 m)			BD400-02 (BD-02)				
	PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED - R. BORO 01-01-07		SCALE: NONE			SHEET NO. 1 OF 1 SHEETS			CONTRACT NO. 60L27	
	PLOT DATE = 10/1/2011	DATE - 11-06-95	REVISED - R. BORO 01-01-07		STA. TO STA.			FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				



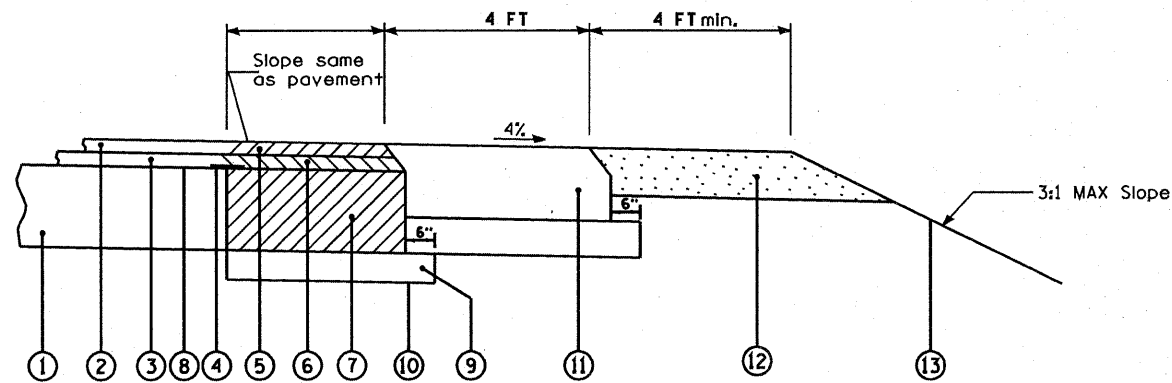
SHOULDER FOR TANGENT PAVEMENT W/ WEDGE



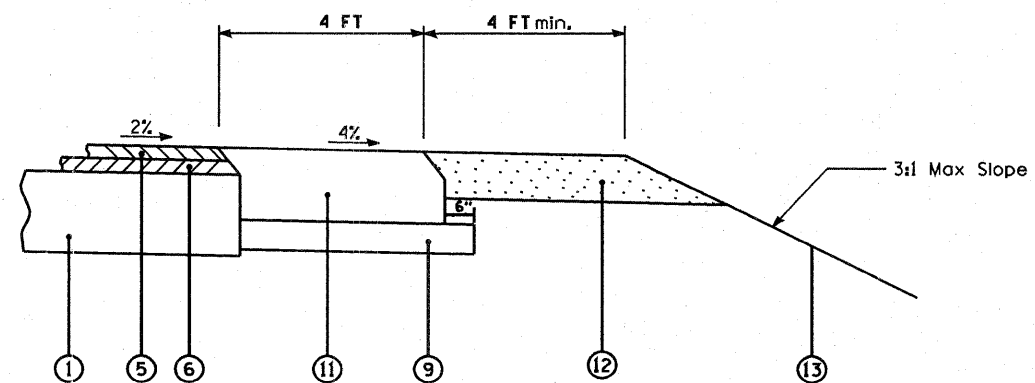
**SHOULDER TAPER DETAIL
PLAN VIEW**

NOTE:
TAPER THE HOT-MIX ASPHALT SHOULDERS DOWN TO THE EXISTING AGGREGATE SHOULDER WITH 1' STUB.
(TAPER RATE SHALL BE 1/2SPEED)

FOR INFORMATION ONLY



**HMA AND AGGREGATE
SHOULDERS WITH WIDENING & RESURFACING**

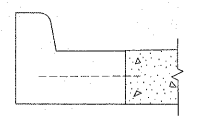
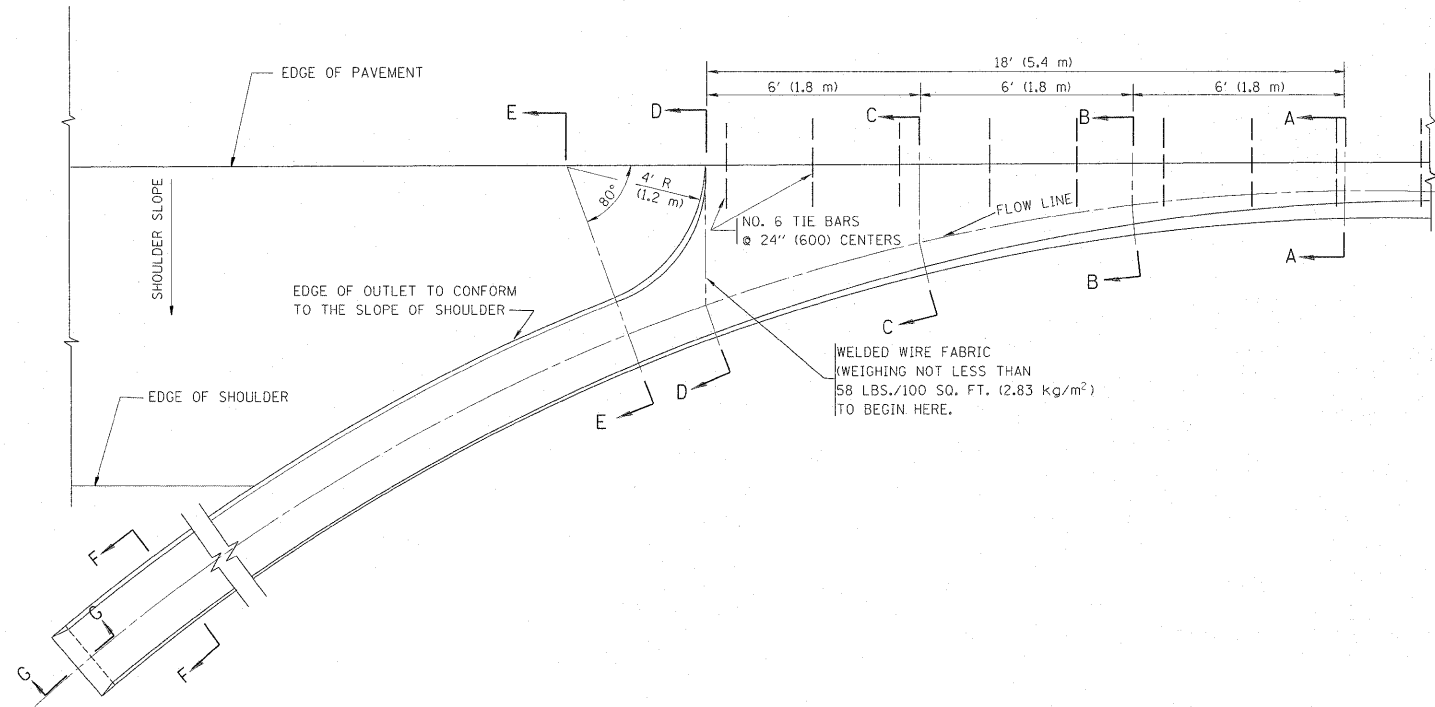


**HMA AND AGGREGATE SHOULDERS
WITH RESURFACING**

LEGEND

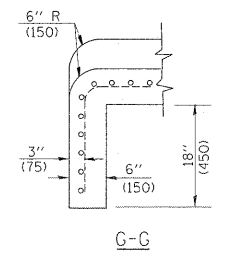
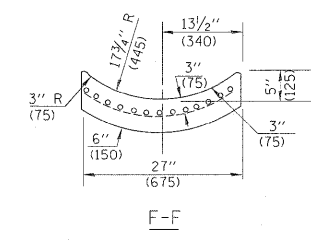
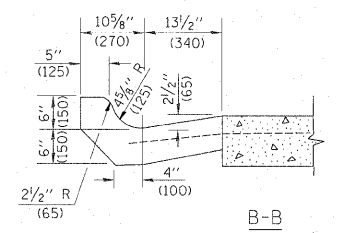
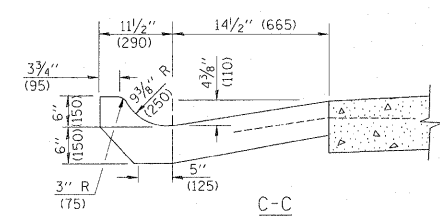
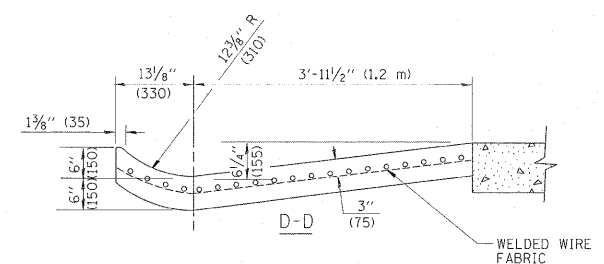
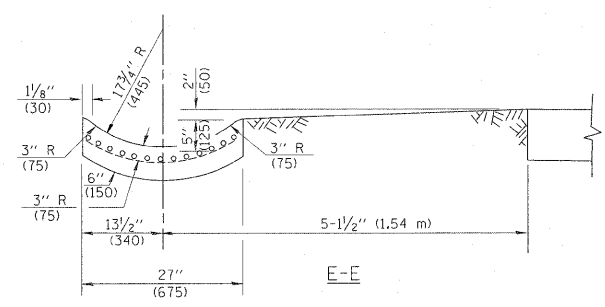
- ① EXISTING PAVEMENT
- ② EXISTING HMA SURFACE COURSE
- ③ EXISTING HMA BINDER COURSE
- ④ SAWCUT EXISTING PAVEMENT & INSTALL 24" WIDE STRIP REFLECTIVE CRACK CONTROL TREATMENT, TYPE A
- ⑤ PROPOSED HMA SURFACE COURSE, MIX "D", N70, 1 1/2"
- ⑥ PROPOSED HMA BINDER COURSE, IL-19, N70, 2 1/2"
- ⑦ PROPOSED HMA BASE COURSE, 9"
- ⑧ PRIME COAT
- ⑨ PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE B, 6"
- ⑩ PROPOSED AGGREGATE SUBGRADE
- ⑪ PROPOSED HMA SHOULDERS, 8"
- ⑫ PROPOSED AGGREGATE SHOULDERS, TYPE B, 6"
- ⑬ PROPOSED TOPSOIL, SEEDING, CL 2A & EROSION CONTROL BLANKET

FILE NAME *	USER NAME * #USER#	DESIGNED -	REVISED - 11-5-2010	McHENRY COUNTY DIVISION OF TRANSPORTATION	SHOULDER DETAIL			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN -	REVISED -		333	15-N-G	McHENRY	67	47A			
		CHECKED -	REVISED -		SCALE: NTS			SHEET NO. OF SHEETS STA. TO STA.				
		DATE -	REVISED -		FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT				



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.

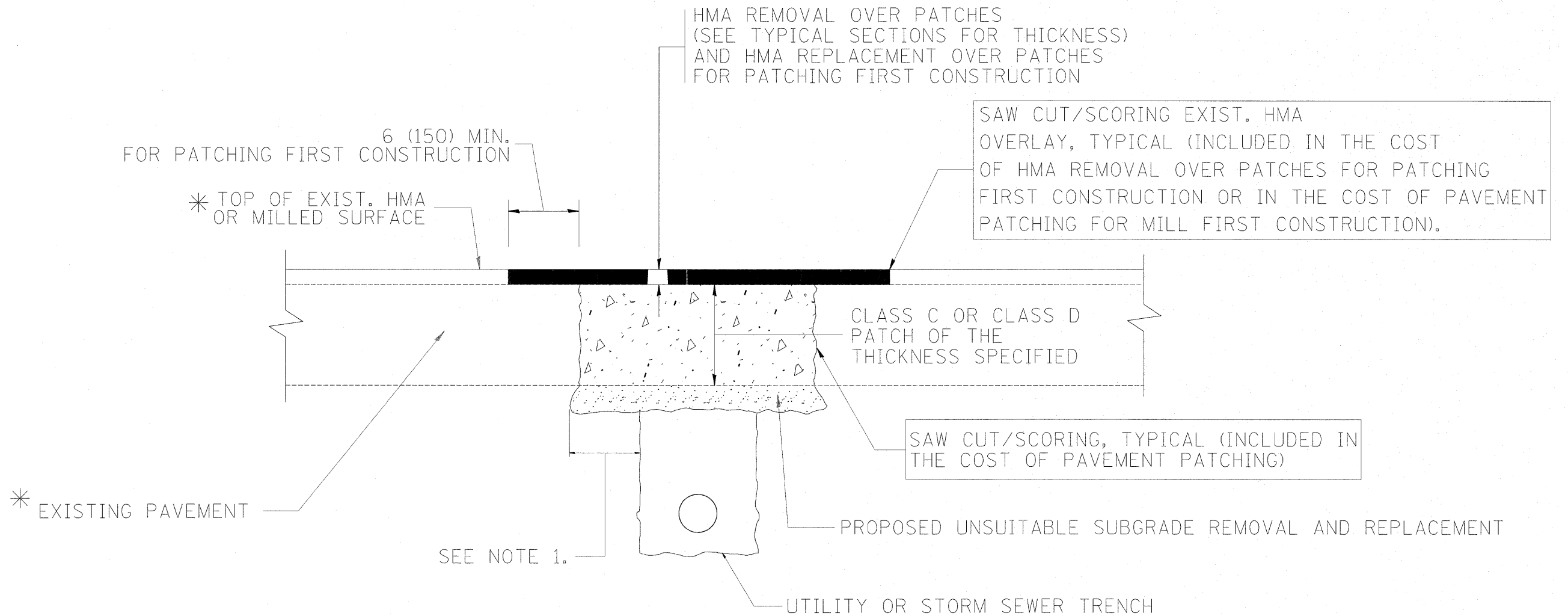
IF THE AVERAGE GRADE OF PAVEMENT FOR THE DISTANCE FROM SECTION A-A TO D-D EXCEEDS 2%, THIS DISTANCE SHALL BE INCREASED 6' (1.8 m) FOR EACH 1% INCREASE IN GRADE.

QUANTITIES

FOR SECTION A-A TO E-E AND CURTAIN WALL = 1.25 CU. YDS. (0.96 m³) CLASS SI CONCRETE (OUTLET) FOR 9" (225) PAV'T. 1.27 CU. YDS. (0.96 m³) CLASS SI CONCRETE (OUTLET) FOR 10" (250) PAV'T. FOR SECTION F-F = 0.045 CU. YDS. (0.03 m³) CLASS SI CONCRETE PER FT. (m).

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

FILE NAME =	USER NAME = galbanjr	DESIGNED - M. DE YONG	REVISED - R. SHAH 09-09-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	OUTLET FOR CONCRETE CURB AND GUTTER			F.A.P. RTE. 333	SECTION 15-N-6	COUNTY MCHENRY	TOTAL SHEETS 67	SHEET NO. 48
ct:\pw_work\pwidot\galbanjr\d0107803\Dist	td.dgn	DRAWN -	REVISED - R. SHAH 10-25-94		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
	PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED - E. GOMEZ 12-21-00		BD600-01 (BD-03) CONTRACT NO. 60L27							
	PLOT DATE = 10/1/2011	DATE - 08-04-86	REVISED -									



* 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 (PATCHING FIRST)

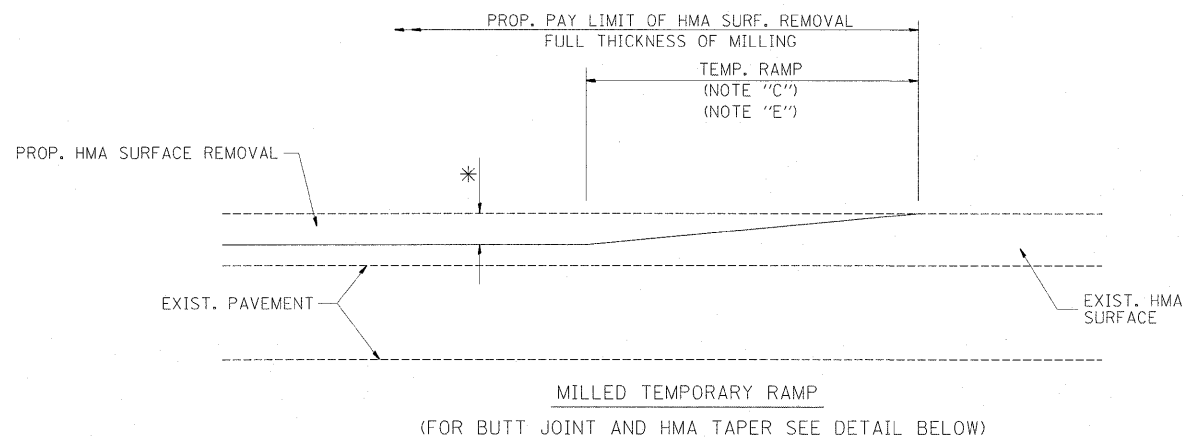
1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

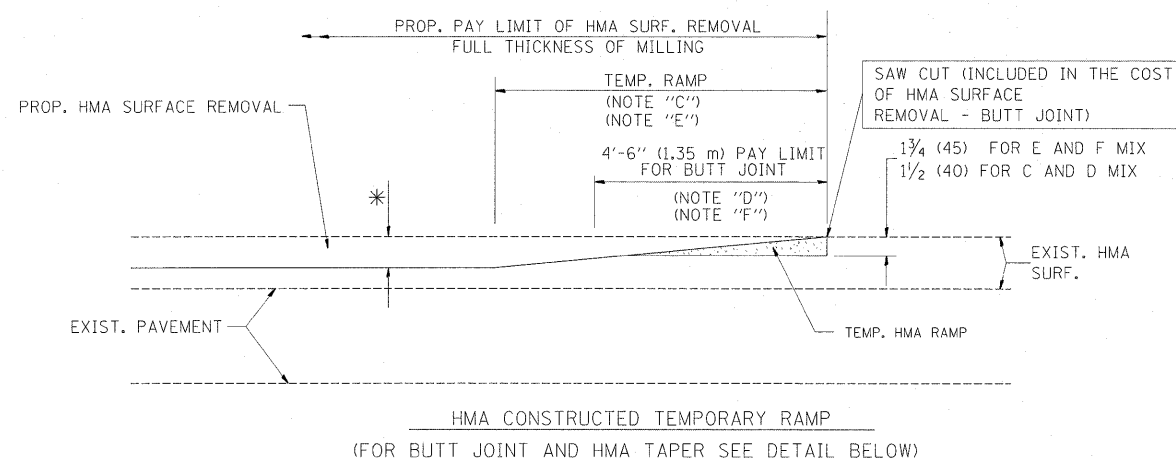
1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

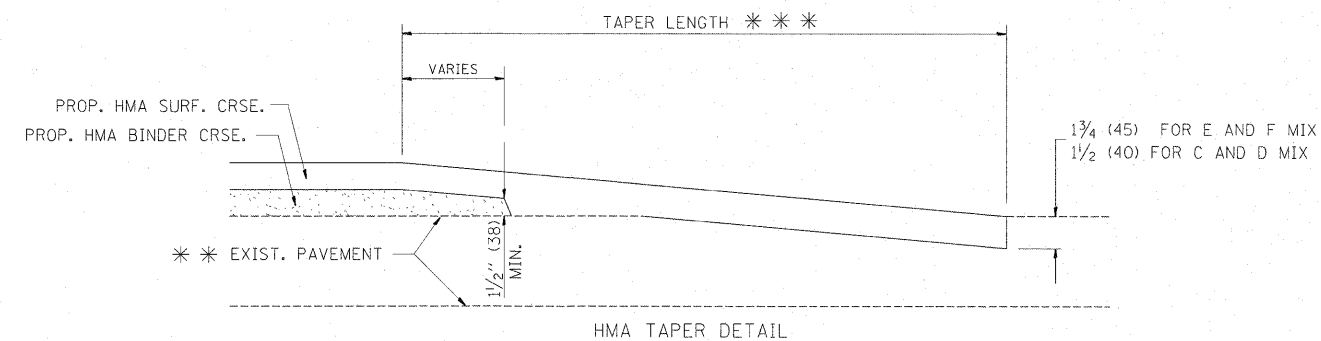
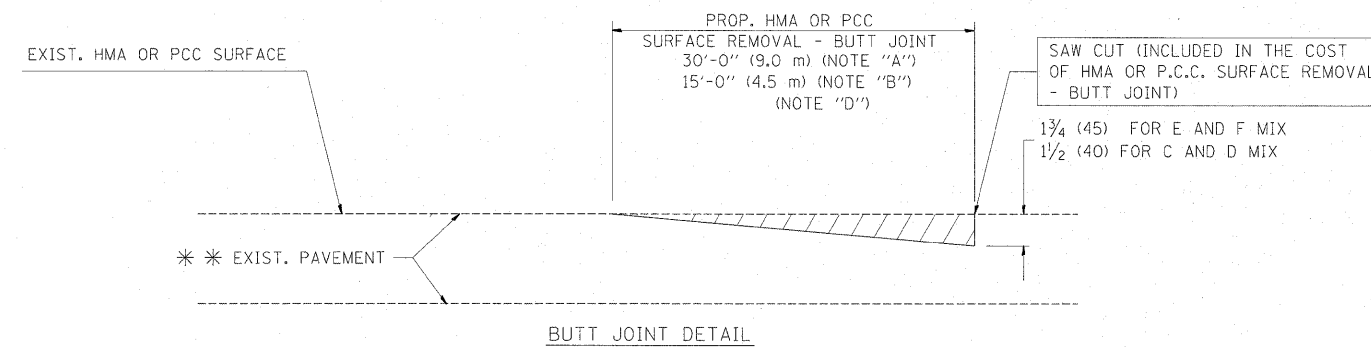
FILE NAME =	USER NAME = galbarjr	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pw-work\p\dot\galbarjr\d0107803\Des	td.dgn	DRAWN -	REVISED - R. BORO 01-01-07			333	15-N-6	MCHENRY	67	49
PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED - R. BORO 09-04-07				BD400-04 (BD-22)		CONTRACT NO. 60L27		
PLOT DATE = 10/1/2011	DATE - 10-25-94	REVISED - K. ENG 10-27-08				SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	



OPTION 1



**OPTION 2
TYPICAL TEMPORARY RAMP**



**TYPICAL BUTT JOINT AND HMA TAPER
FOR RESURFACING ONLY**

* * PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

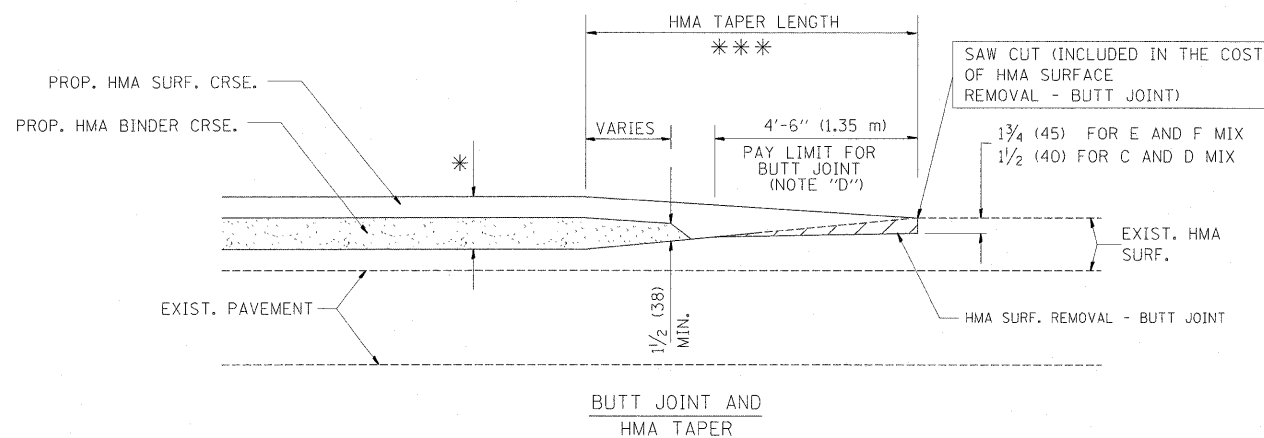
NOTES

- 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")

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".

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



**TYPICAL BUTT JOINT AND HMA TAPER
FOR MILLING AND RESURFACING**

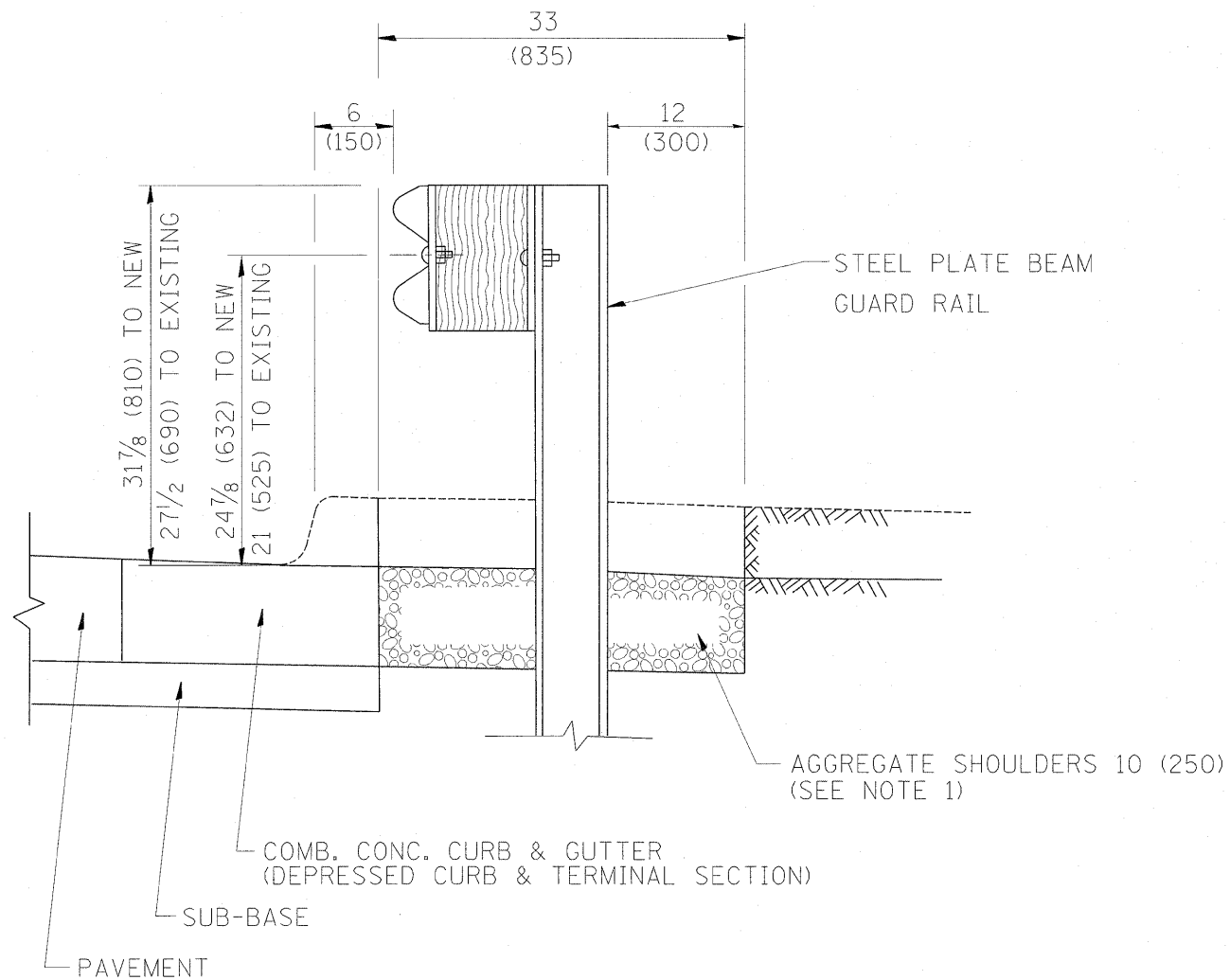
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PLOT SCALE = 50.0000' / in.		CHECKED -	REVISED - M. GOMEZ 04-06-01
PLOT DATE = 10/1/2011		DATE - 06-13-90	REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND
HMA TAPER DETAILS**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

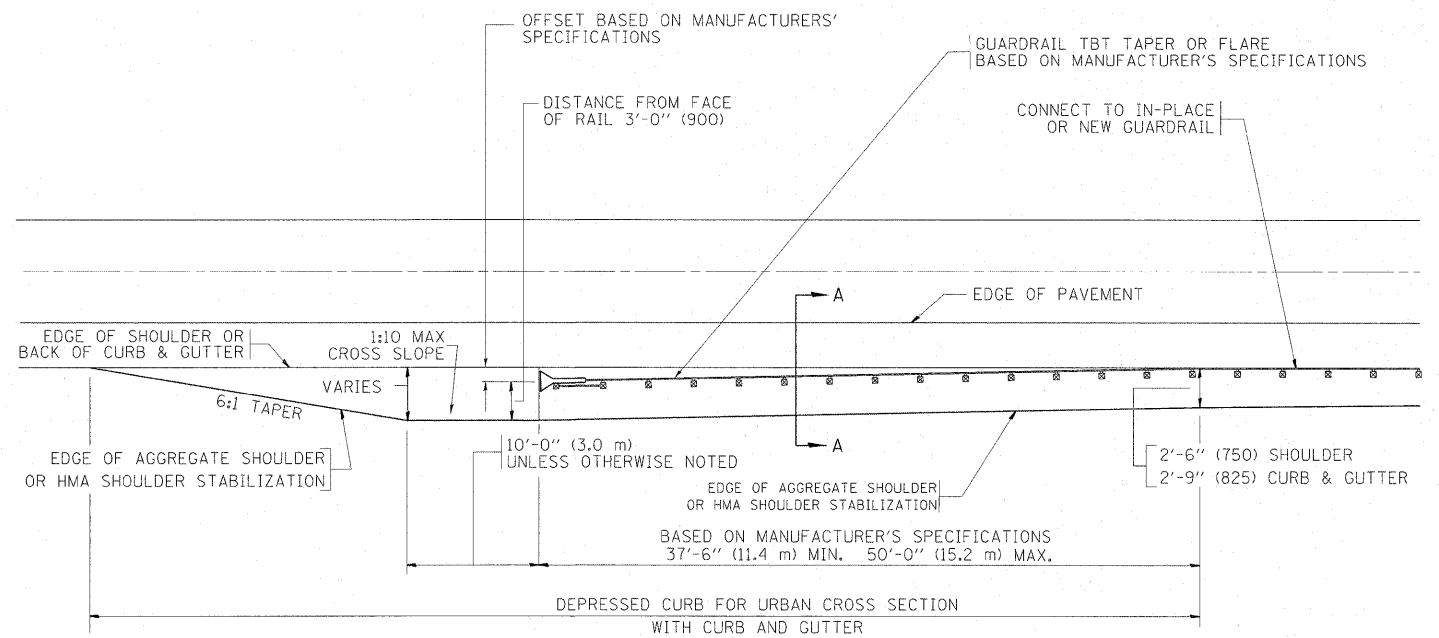
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	15-N-6	MCHENRY	67	50
BD400-05 BD32			CONTRACT NO. 60L27	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



SECTION A-A

- NOTES: 1. THE AGGREGATE SHOULDER, 10" OR HMA SHOULDER, 6" (IF REQUIRED) SHALL EXTEND UNDER THE TRAFFIC BARRIER TERMINAL.
2. "EXISTING" GUARDRAIL REFERS TO CONNECTING TERMINAL SECTION TO GUARD RAILING PRIOR TO THE MIDWEST GUARDRAIL SYSTEM.
3. THE CONTRACTOR SHALL VERIFY THE TYPE/HEIGHT OF GUARDRAIL IN-PLACE BEFORE ORDERING THE NEW TERMINAL SECTION. COST INCLUDED WITH THE COST OF THE TERMINAL. THE TERMINAL SECTION HEIGHT TO BE PLACED MUST MATCH THE HEIGHT OF THE IN-PLACE GUARDRAIL.

**DETAILS FOR STEEL PLATE BEAM
GUARD RAIL ADJACENT TO CURB AND GUTTER
[FOR ROADWAY SPEED 35 MPH (60 kmh) TO 45 MPH (70 kmh)]**



**DEPRESSED CURB AND GUTTER AND
SHOULDER TREATMENT AT TBT TY. 1 SPL.**

BASIS OF PAYMENT: HMA SHOULDERS 6 (150) (IF REQUIRED) WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SHOULDERS 6" (150 mm)".

STEEL PLATE BEAM GUARD RAIL AND TRAFFIC BARRIER TERMINAL, OF THE TYPE SPECIFIED WILL BE PAID FOR SEPARATELY.

TBT = TRAFFIC BARRIER TERMINAL
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

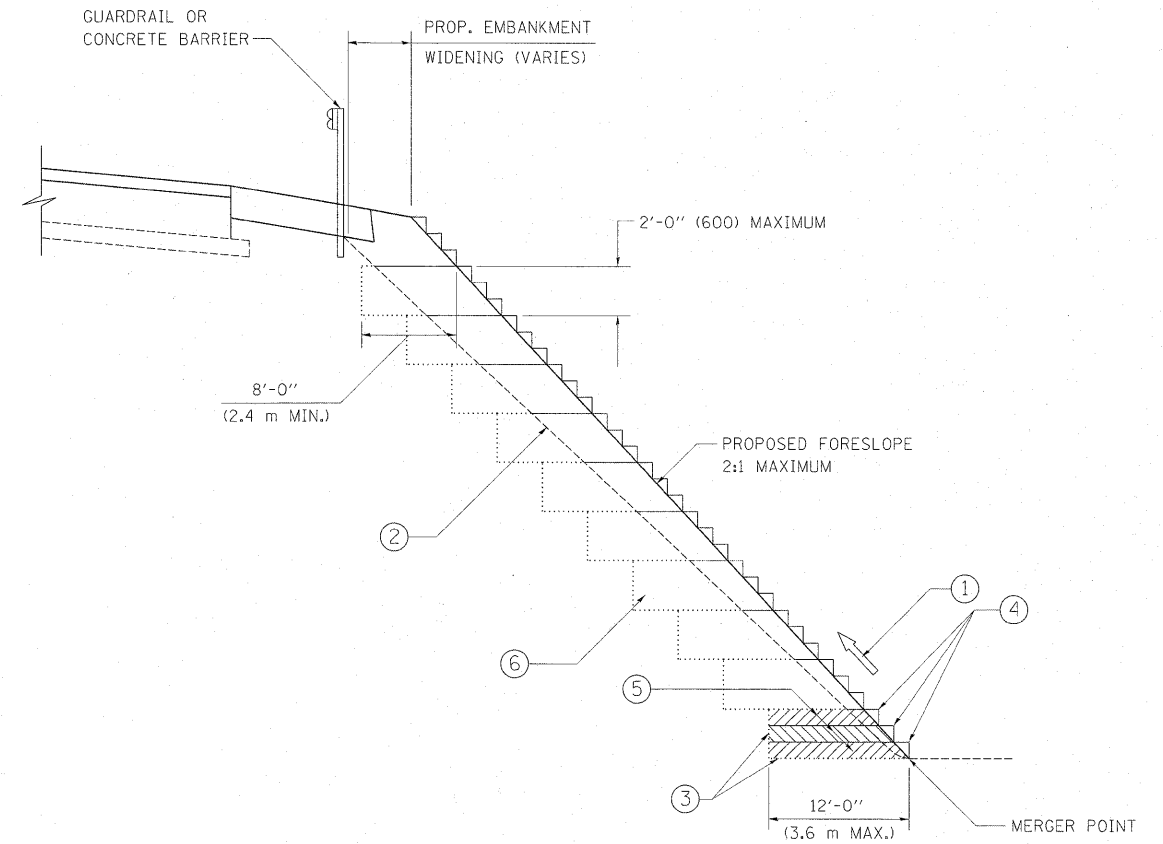
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PLOT DATE = 10/1/2011	DATE - 09-22-90	REVISED - R. BORO 09-14-2009	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETAILS FOR DEPRESSED CURB & GUTTER AND
SHOULDER TREATMENT AT TBT TY 1 SPL.**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	15-N-6	MCHENRY	67	50A
BD600-10 (BD 34)			CONTRACT NO. 60L27	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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.

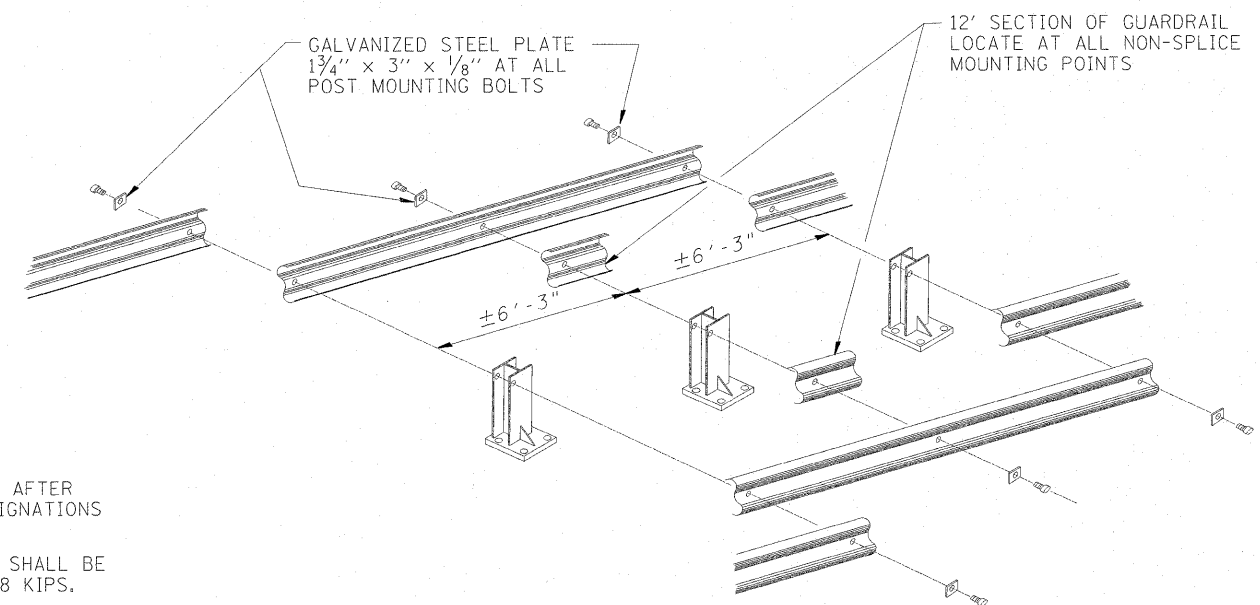
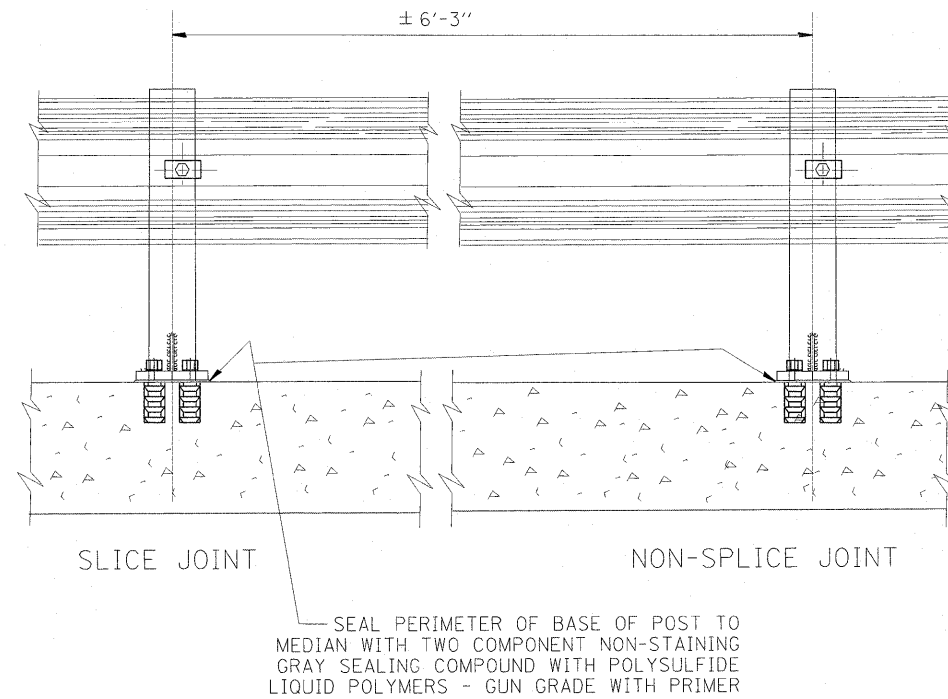
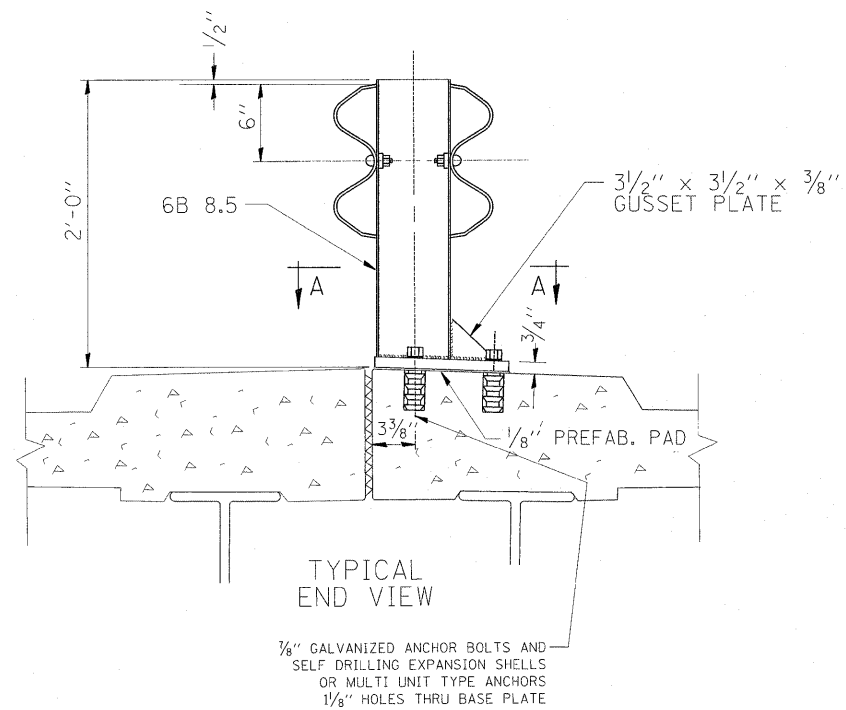
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PLOT DATE = 10/1/2011	DATE - 06-16-04	REVISED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BENCHING DETAIL
FOR EMBANKMENT WIDENING

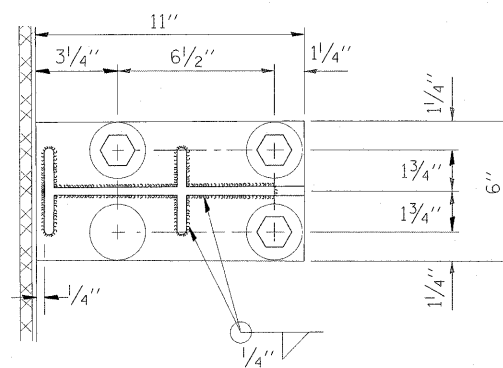
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	15-N-6	MCHENRY	67	51
BD-51			CONTRACT NO. 60L27	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTE:

DIAMOND TIPPED DRILL SHALL BE USED TO DRILL THRU REINFORCEMENT BARS



NOTE:

POSTS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM DESIGNATIONS A-123 AND A-385.

TWO PERCENT (2%) OF ALL ANCHOR BOLTS SHALL BE TEST LOADED IN PLACE. MIN. TEST LOAD = 8 KIPS.

ALL BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION A-153.

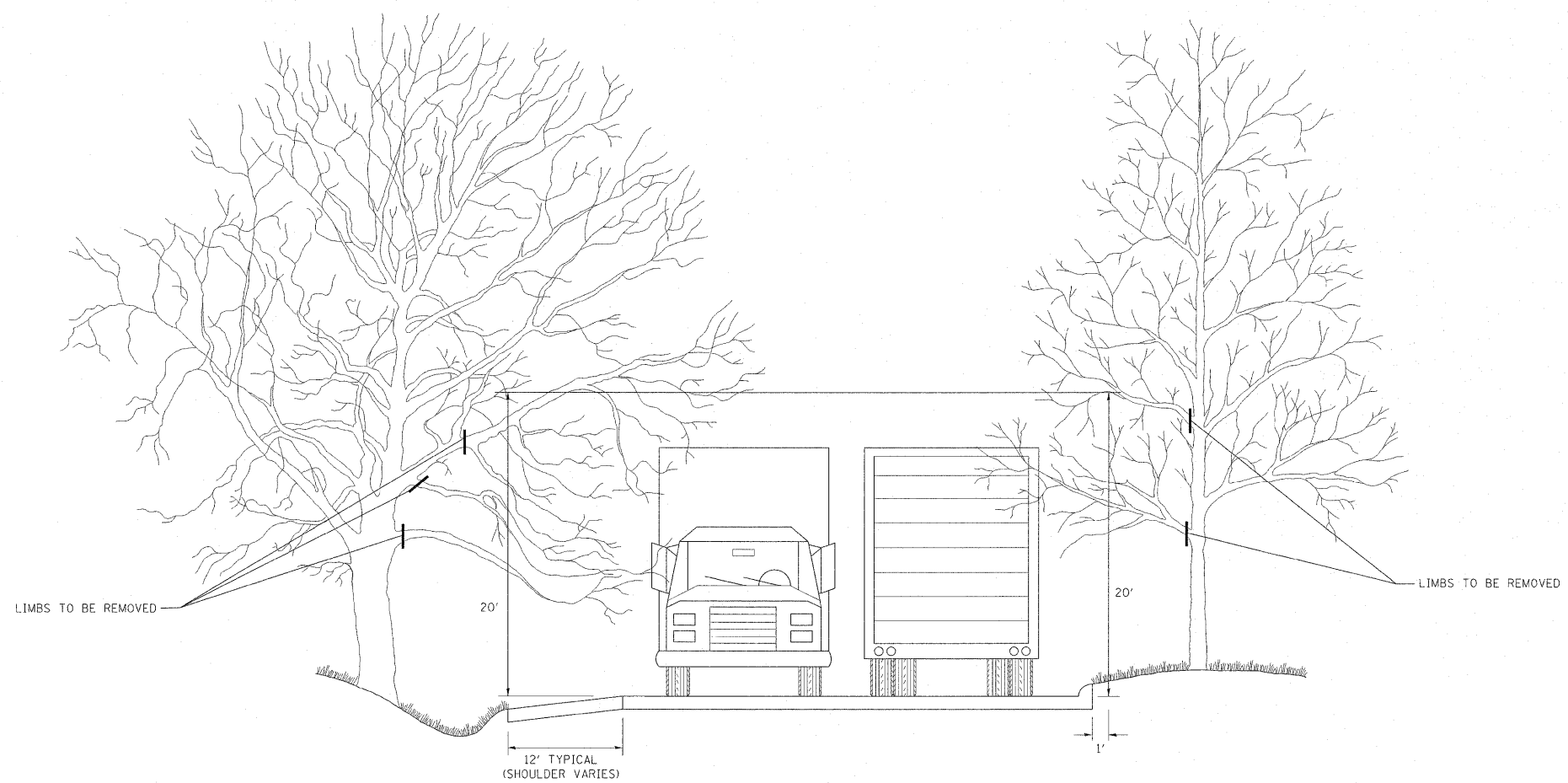
FOR MATERIAL COMPOSITION OF PREFABRICATED PAD, SEE ARTICLE 54.9(F), (BEARING AND ANCHORAGE), OF THE STANDARD SPECIFICATIONS.

PROVIDE 1-1/8" AND 2-1/16" GALVANIZED STEEL SHIMS FOR 25% OF THE POSTS.

IF ONE ANCHOR BOLT FAILS DURING TEST, TWO OTHER ANCHOR BOLTS SHALL BE TESTED. TESTING EQUIPMENT CAN BE OBTAINED FROM BOLT COMPANIES.

THIS SHEET IS FOR INFORMATION ONLY

FILE NAME =	USER NAME = galbanjr	DESIGNED -	REVISED - R. RITCHIE 05-02-00	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL DETAIL FOR CENTER LONGITUDINAL JOINT GUARDRAIL JOINT			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pw_work\pwidot\galbanjr\d0107903\01st	td.dgn	DRAWN - RFL	REVISED -		333	15-N-6	MCHENRY	67	52			
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PLOT DATE = 10/1/2011	DATE - 10-31-88	REVISED -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



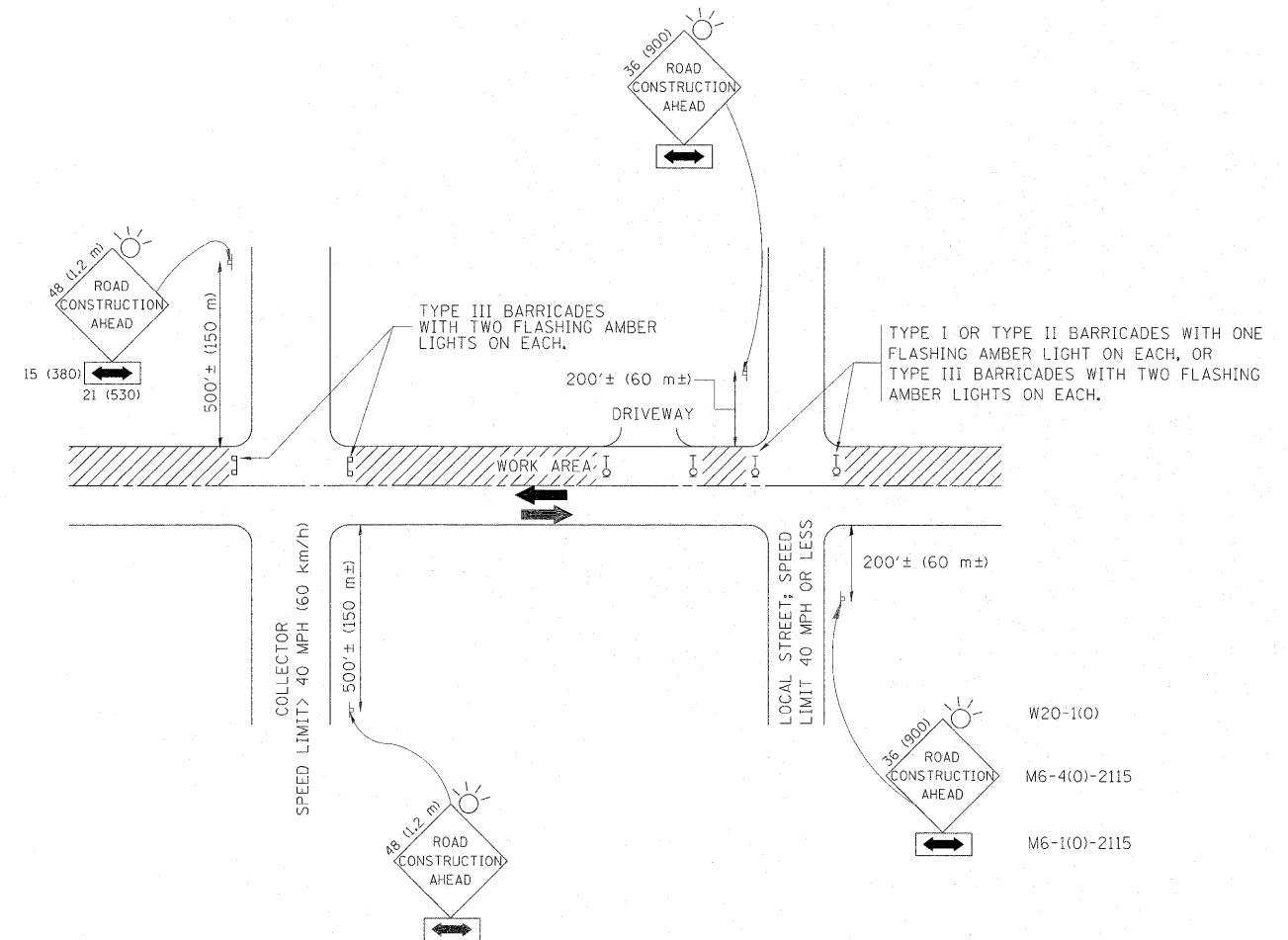
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	PLOT DATE = 10/1/2011	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PRUNING FOR SAFETY AND
EQUIPMENT CLEARANCE**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	15-N-6	MCHENRY	67	53
BM-20			CONTRACT NO.	60L27
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- 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:
 - 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.
 - 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.
 - SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - 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.
 - 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.
 - 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.

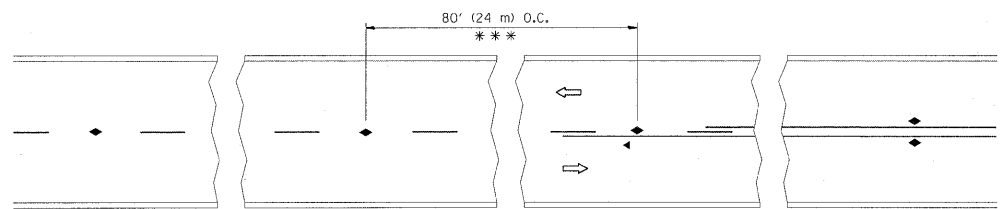
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PLOT SCALE = 50.0000' / in.	CHECKED -	REVIS	REVISED - A. HOUSEH 10-15-96
PLOT DATE = 10/1/2011	DATE - 06-89	REVISED	REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

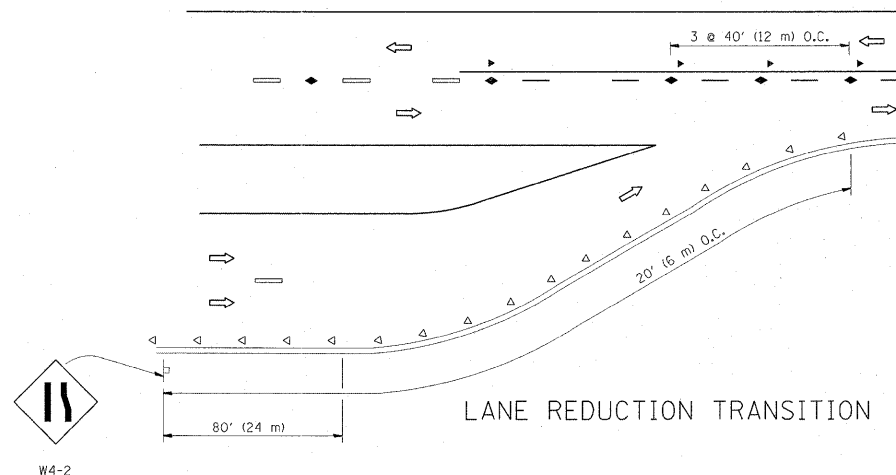
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	15-N-6	MCHENRY	67	54
TC-10			CONTRACT NO.	60L27
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

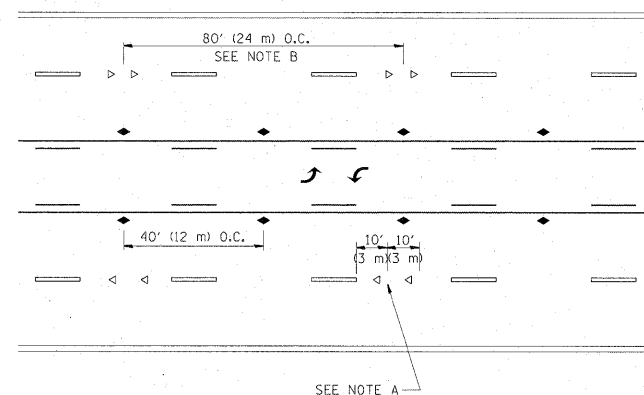


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

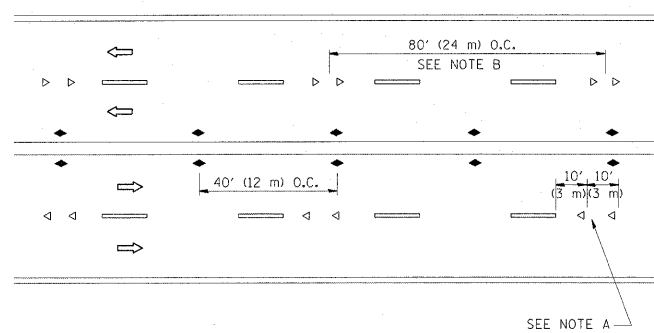
TWO-LANE/TWO-WAY



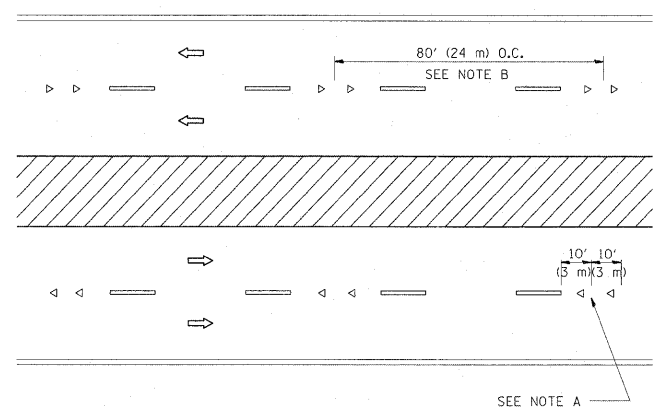
LANE REDUCTION TRANSITION



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

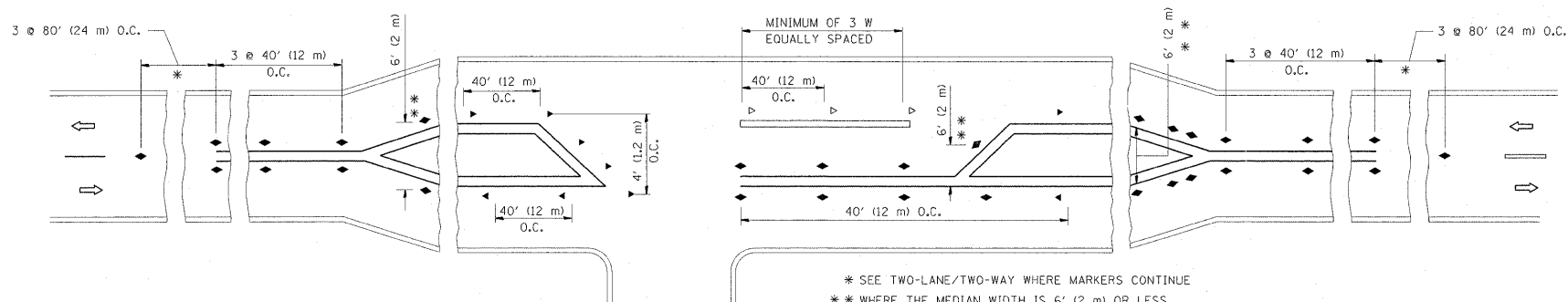
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- 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.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.

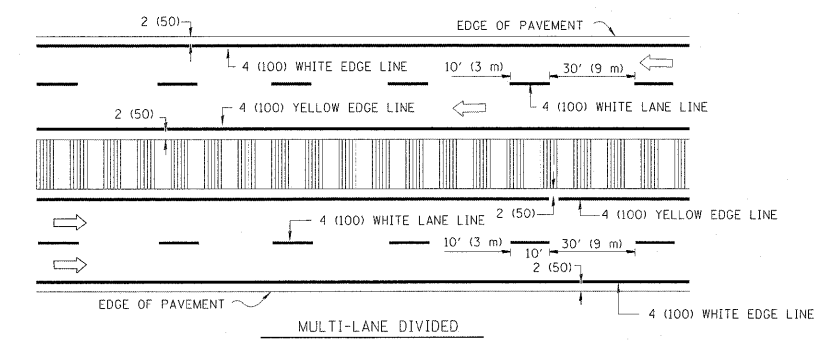
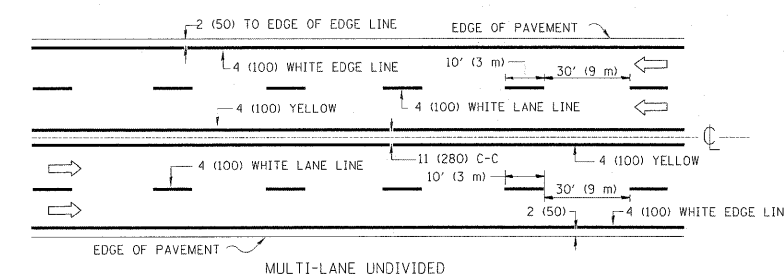
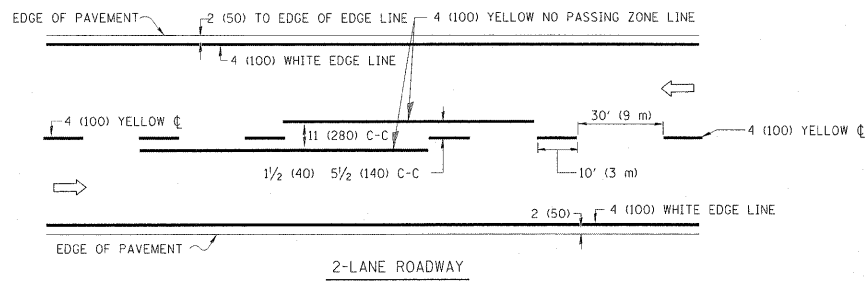


LEFT TURN

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

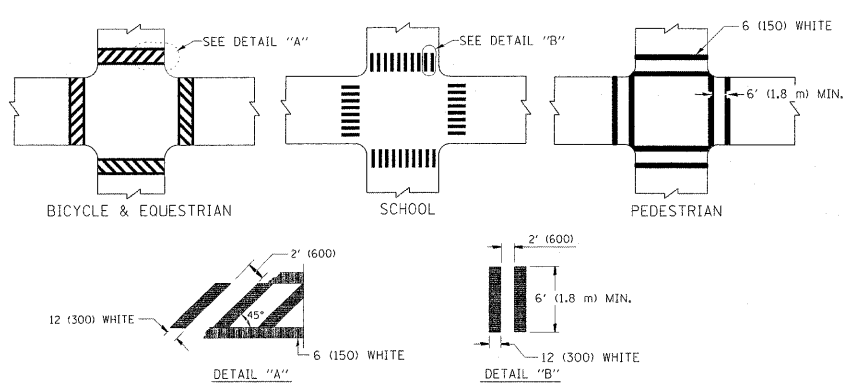
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = gslbanjr	DESIGNED -	REVISED - T. RAMMACHER 09-19-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
es:\pw_work\p\dot\gslbanjr\d0107803\Dist\td.dgn		DRAWN -	REVISED - T. RAMMACHER 03-12-99		333	15-N-6	MCHENRY	67	55			
PLOT SCALE = 50.0000' / in.		CHECKED -	REVISED - T. RAMMACHER 01-06-00		TC-11			CONTRACT NO. 60L27				
PLOT DATE = 10/1/2011		DATE -	REVISED - C. JUCIUS 09-09-09		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
				SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.					

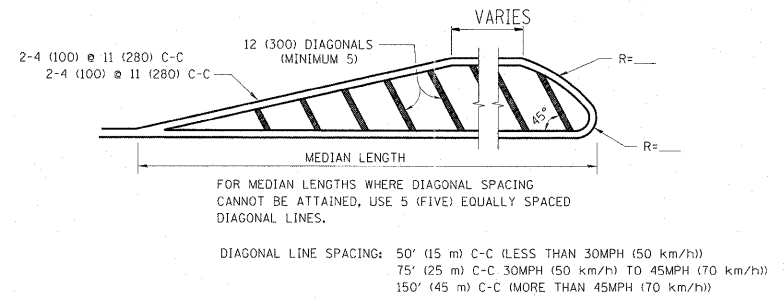
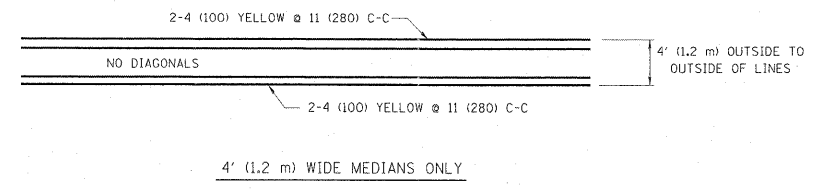


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

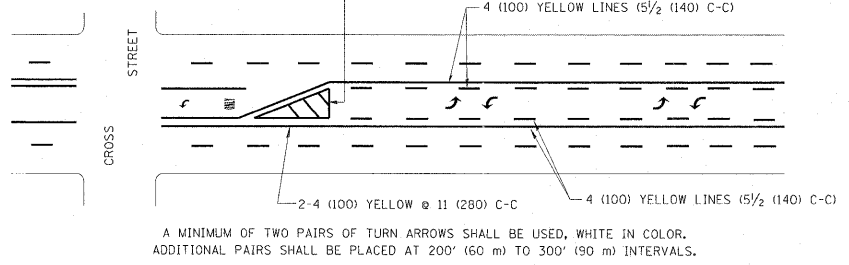
TYPICAL LANE AND EDGE LINE MARKING



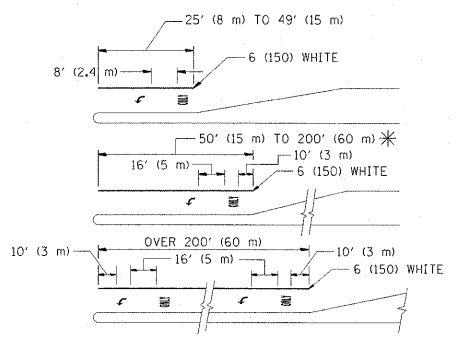
TYPICAL CROSSWALK MARKING



MEDIANS OVER 4' (1.2 m) WIDE



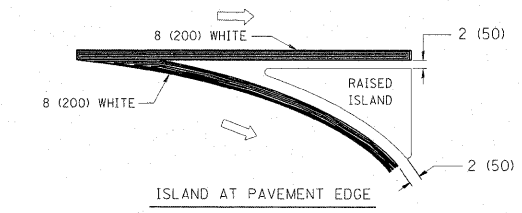
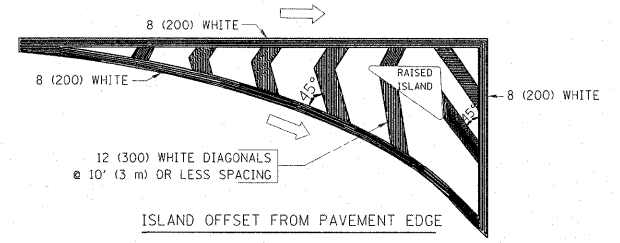
TYPICAL PAINTED MEDIAN MARKING



FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
 AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)
 * 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	4 (100)	SOLID	YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE
NO PASSING ZONE LINES: FOR BOTH DIRECTIONS	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100)	SKIP-DASH	WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
LANE LINES	5 (125) ON FREEWAYS	SKIP-DASH	WHITE	
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	SKIP-DASH AND SOLID IN PAIRS	YELLOW	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
TWO WAY LEFT TURN MARKING	8' (2.4m) LEFT ARROW		WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN)	2 @ 6 (150)	SOLID	WHITE	NOT LESS THAN 6' (1.8 m) APART
A. DIAGONALS (BIKE & EQUESTRIAN)	12 (300) @ 45°	SOLID	WHITE	2' (600) APART
B. LONGITUDINAL BARS (SCHOOL)	12 (300) @ 90°	SOLID	WHITE	2' (600) APART
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°	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 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
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))

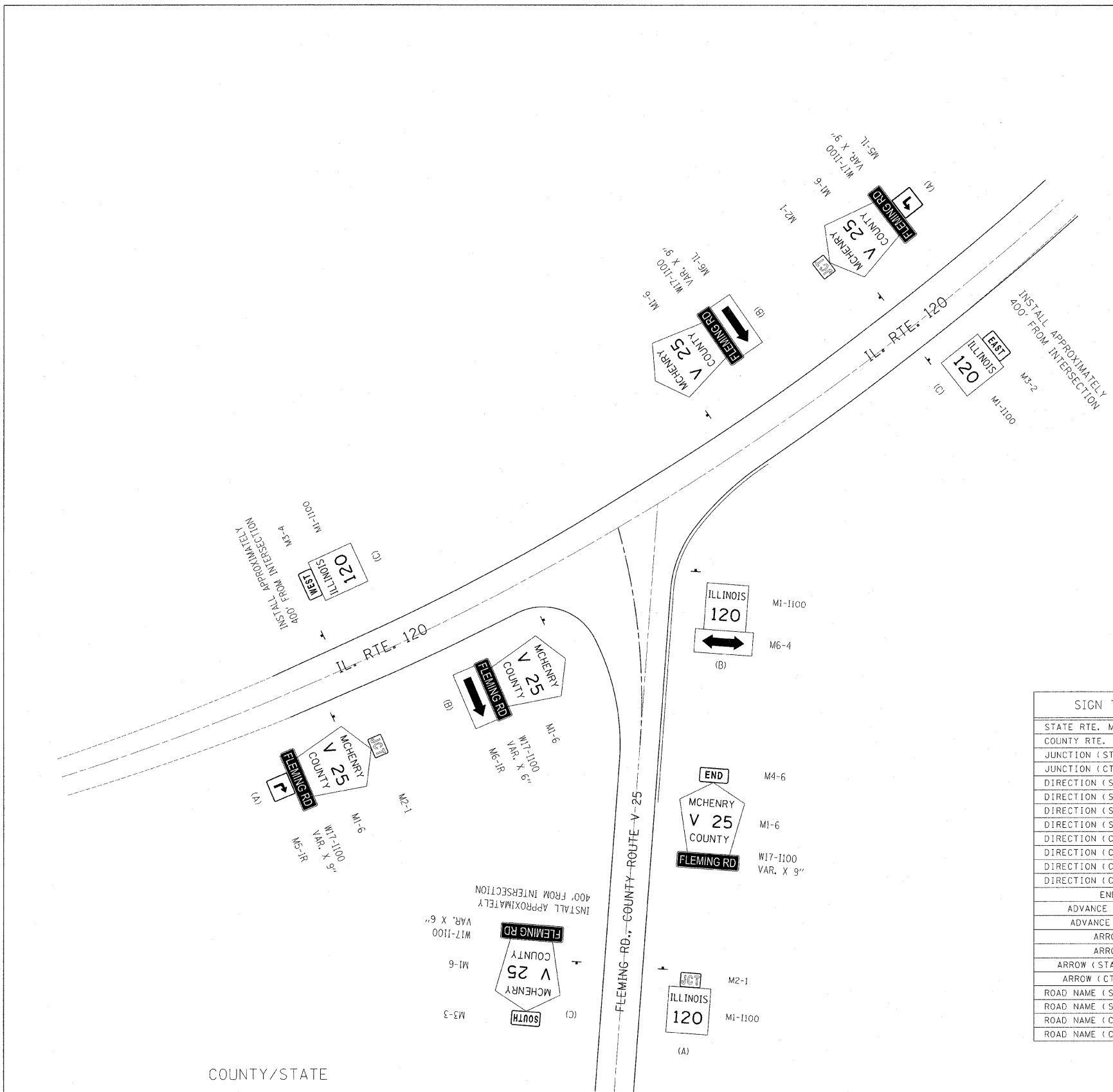
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

FILE NAME =	USER NAME = galbanjr	DESIGNED = EVERS	REVISED - T. RAMMACHER 10-27-94
ci:\pwork\pwidot\galbanjr\d0107803\01stbtd.dgn		DRAWN =	REVISED - C. JUCIUS 09-09-09
PLOT SCALE = 50.0000' / in.		CHECKED =	REVISED =
PLOT DATE = 10/1/2011		DATE = 03-19-90	REVISED =

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TYPICAL PAVEMENT MARKINGS		333	15-N-6	MCHENRY	67	56
SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		STA. TO STA.	CONTRACT NO. 60L27	
		FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				



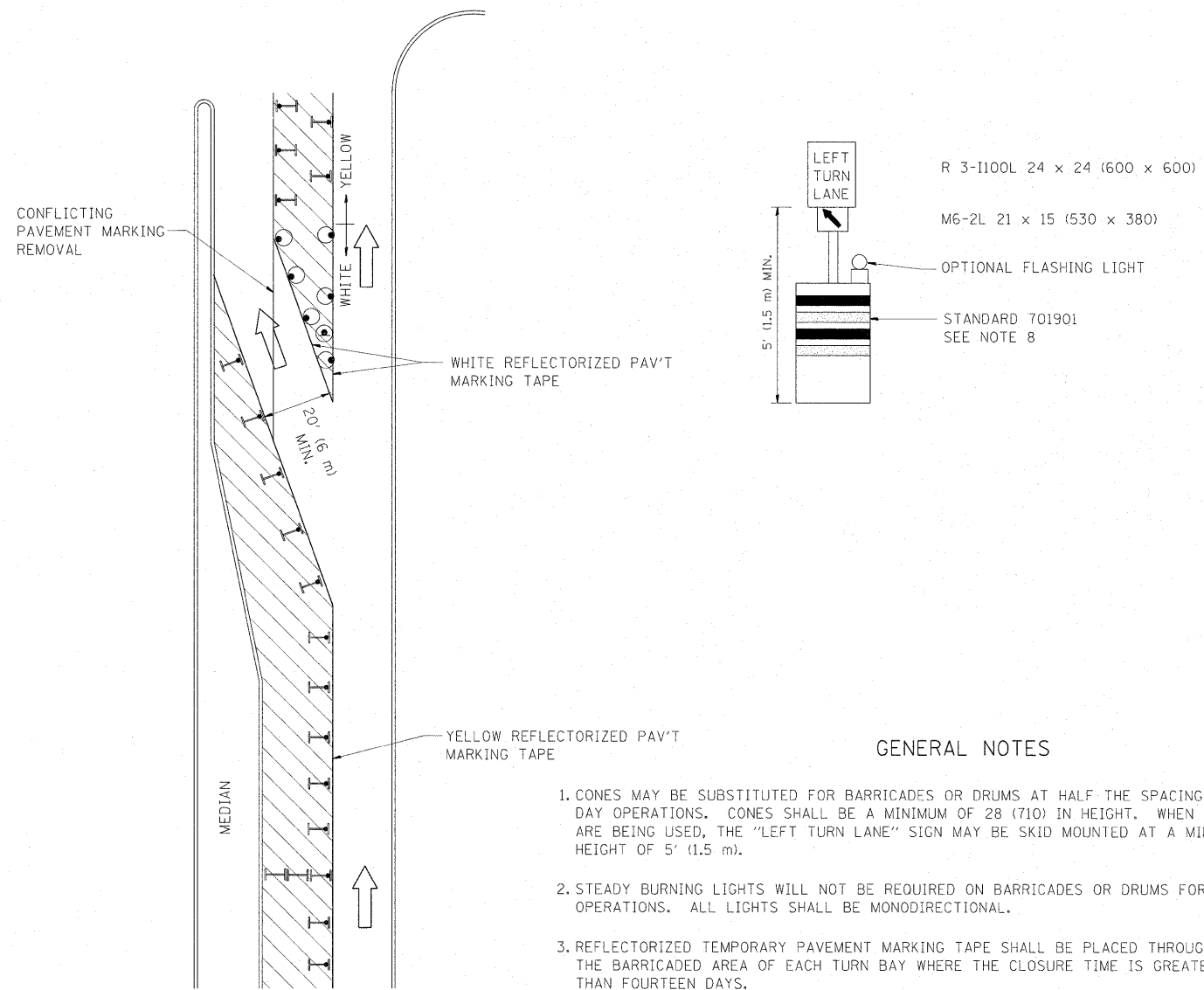
JUNCTION SIGN LOCATIONS (A):
 IN URBAN AREAS, THE JUNCTION SIGN SHALL BE INSTALLED IN THE BLOCK PRECEDING THE INTERSECTION.
 IN RURAL AREAS, THE JUNCTION SIGN SHALL BE INSTALLED AT LEAST 400 FEET IN ADVANCE OF THE INTERSECTION.

CONFIRMATION SIGN LOCATIONS (C):
 CONFIRMATION SIGN ASSEMBLIES SHALL BE INSTALLED APPROXIMATELY 400 FEET FROM THE INTERSECTION.

SIGN TYPE	SIGN CODE	SIGN COLOR	SIGN SIZE	LEGEND/SYMBOL
STATE RTE. MARKER	M1-100	BLACK ON WHITE	24" X 24"	ILLINOIS "XX"
COUNTY RTE. MARKER	M1-6	YELLOW ON BLUE	24" X 24"	MCHENRY XXX" COUNTY
JUNCTION (STATE RTE.)	M2-1	BLACK ON WHITE	21" X 15"	JUNCTION
JUNCTION (CTY. RTE.)	M2-1R	YELLOW ON BLUE	21" X 15"	JUNCTION
DIRECTION (STATE RTE.)	M3-1	BLACK ON WHITE	24" X 12"	NORTH
DIRECTION (STATE RTE.)	M3-2	BLACK ON WHITE	24" X 12"	EAST
DIRECTION (STATE RTE.)	M3-3	BLACK ON WHITE	24" X 12"	SOUTH
DIRECTION (STATE RTE.)	M3-4	BLACK ON WHITE	24" X 12"	WEST
DIRECTION (CTY. RTE.)	M3-1	YELLOW ON BLUE	24" X 12"	NORTH
DIRECTION (CTY. RTE.)	M3-2	YELLOW ON BLUE	24" X 12"	EAST
DIRECTION (CTY. RTE.)	M3-3	YELLOW ON BLUE	24" X 12"	SOUTH
DIRECTION (CTY. RTE.)	M3-4	YELLOW ON BLUE	24" X 12"	WEST
END	M4-6	YELLOW ON BLUE	24" X 12"	END
ADVANCE ARROW	M5-1L	YELLOW ON BLUE	15" X 21"	ADV. LEFT ARROW
ADVANCE ARROW	M5-1R	YELLOW ON BLUE	15" X 21"	ADV. RIGHT ARROW
ARROW	M6-1L	YELLOW ON BLUE	15" X 21"	LEFT ARROW
ARROW	M6-1R	YELLOW ON BLUE	15" X 21"	RIGHT ARROW
ARROW (STATE RTE.)	M6-4	BLACK ON WHITE	15" X 21"	DOUBLE ARROW
ARROW (CTY. RTE.)	M6-4	YELLOW ON BLUE	15" X 21"	DOUBLE ARROW
ROAD NAME (STATE RTE.)	W17-1100	BLACK ON WHITE	VARIABLE X 9"	FOR SIGNS A & B
ROAD NAME (STATE RTE.)	W17-1100	BLACK ON WHITE	VARIABLE X 6"	FOR SIGN C
ROAD NAME (CTY. RTE.)	W17-1100	YELLOW ON BLUE	VARIABLE X 9"	FOR SIGNS A & B
ROAD NAME (CTY. RTE.)	W17-1100	YELLOW ON BLUE	VARIABLE X 6"	FOR SIGN C

COUNTY/STATE

11/2007 AutoCAD 2011 10250 AF User

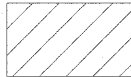







GENERAL NOTES

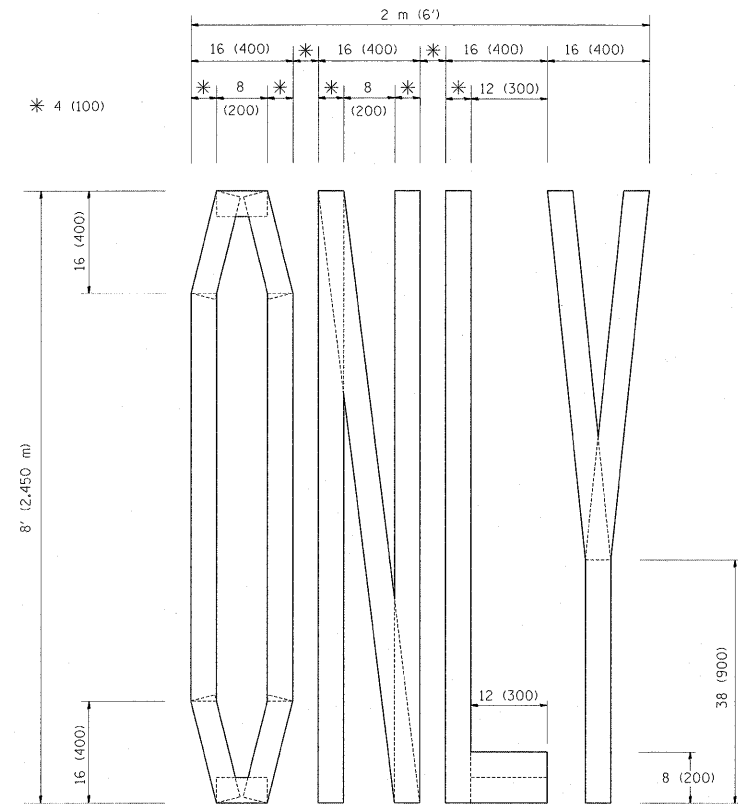
1. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT. WHEN CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).
2. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
3. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
4. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
5. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
7. FORM OPER 725 IS REQUIRED.
8. IF A DRUM OR TYPE II BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHR 350 PREQUIREMENTS.
9. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

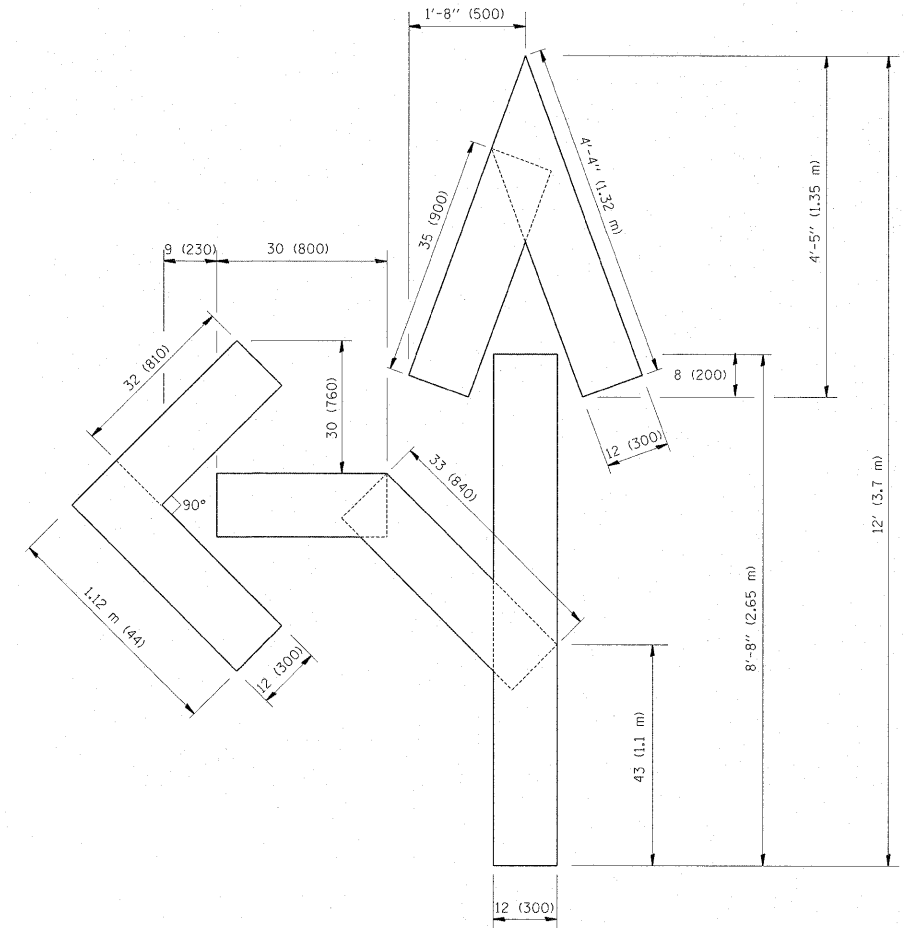
LEGEND

-  WORK AREA
-  LANE OPEN TO TRAFFIC
-  TYPE I OR II BARRICADE WITH STEADY BURN LIGHT
-  DRUM WITH STEADY BURN LIGHT
-  DRUM WITH SIGN (WITH OPTIONAL FLASHING LIGHT) SEE DETAIL
-  TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

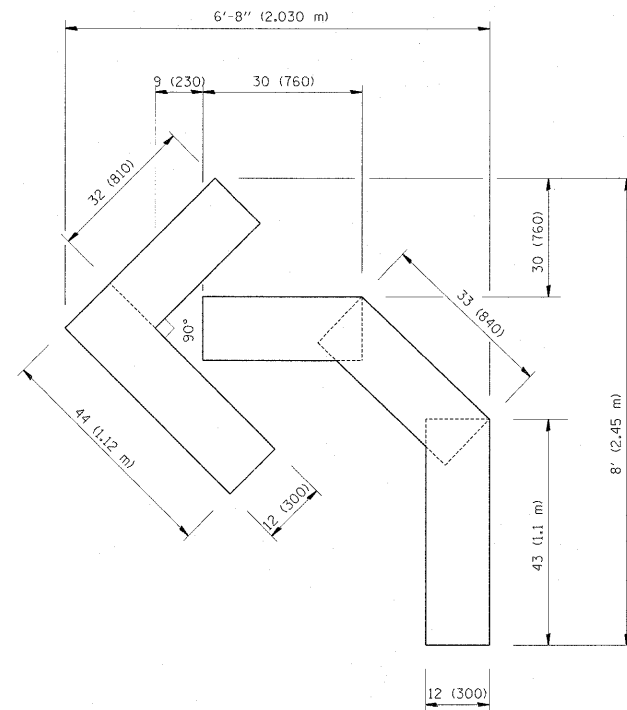
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PLOT SCALE = 50.0000' / in.	REVISED - A. HOUSEH 11-07-95	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	TC-14		CONTRACT NO. 60L27	
PLOT DATE = 10/1/2011	REVISED - A. HOUSEH 10-12-96	REVISED -		FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT						
	REVISED - T. RAMMACHER 01-06-00	REVISED -								



QUANTITY
 4 (100) LINE = 64.1 ft. (19.7 m)
 21.1 sq. ft. (1.97 sq. m)



QUANTITY
 4 (100) LINE = 82.5 ft. (25.3 m)
 27.5 sq. ft. (2.53 sq. m)



QUANTITY
 4 (100) LINE = 45.5 ft. (13.9 m)
 15.2 sq. ft. (1.39 sq. m)

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

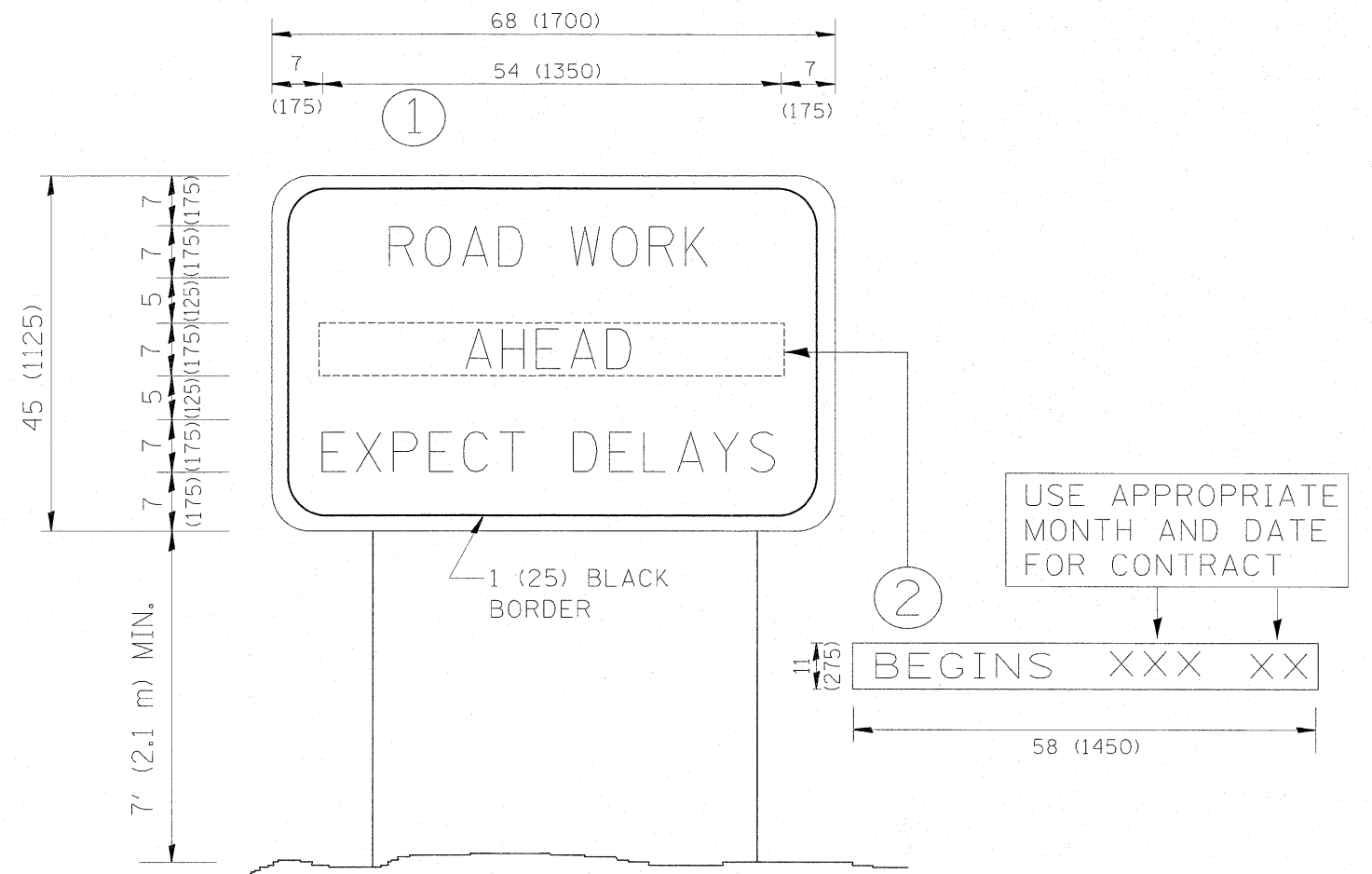
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PLOT SCALE = 50.0000 / in.	CHECKED -	REVISED - T. RAMMACHER 03-02-98	
PLOT DATE = 10/1/2011	DATE = 09-18-94	REVISED - E. GOMEZ 08-28-00	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING LETTERS AND SYMBOLS
 FOR TRAFFIC STAGING**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	15-N-6	MCHENRY	67	58
TC-16			CONTRACT NO. 60L27	
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				



NOTES:

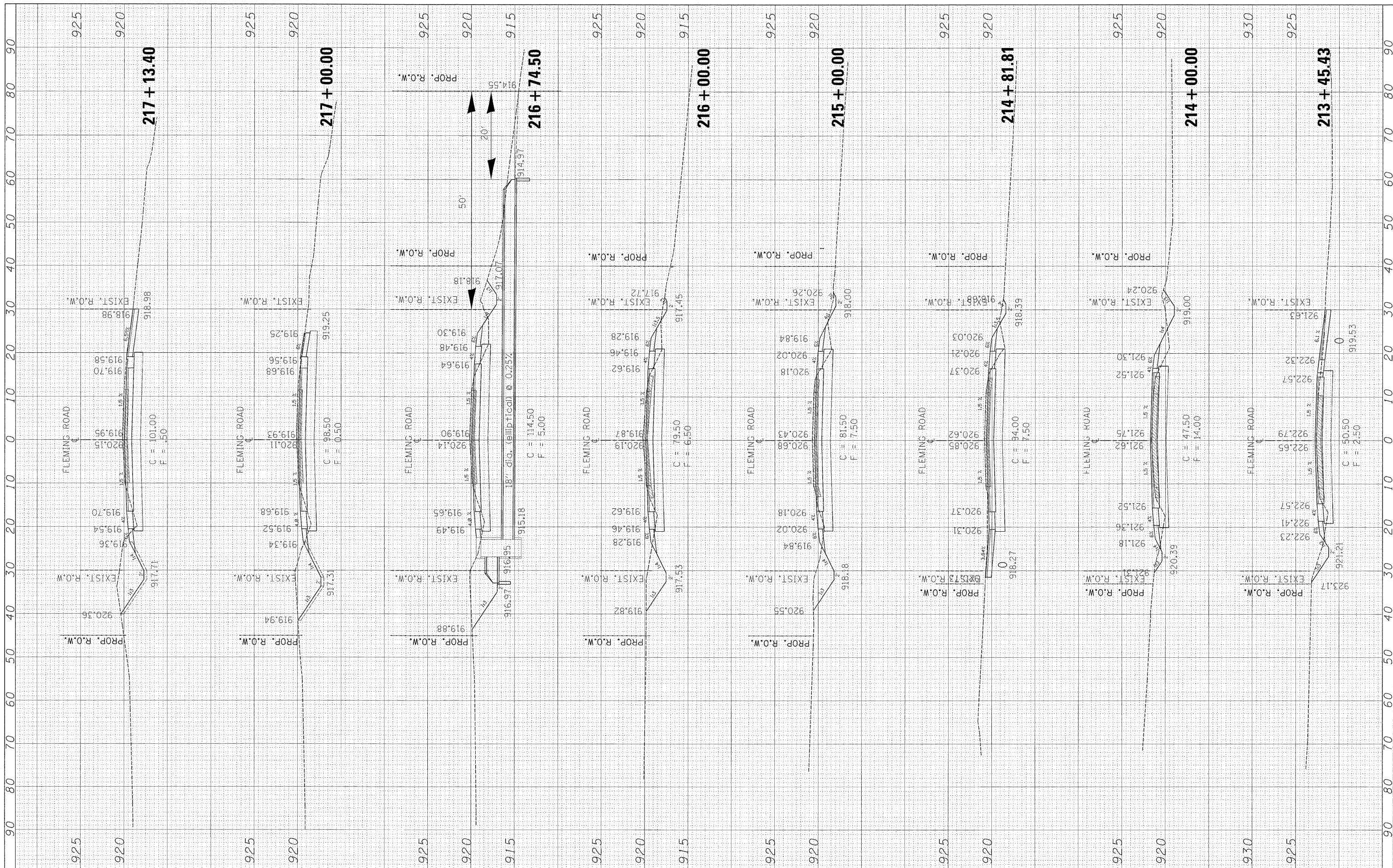
1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
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.

FILE NAME =	USER NAME = galbanjr	DESIGNED -	REVISED - R. MIRS 09-15-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN			F.A.P. RTE. 333	SECTION 15-N-6	COUNTY MCHENRY	TOTAL SHEETS 67	SHEET NO. 59
ct:\pw\work\pwt\dot\galbanjr\d0107803\dst\std.dgn		DRAWN -	REVISED - R. MIRS 12-11-97		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	TC-22		CONTRACT NO.	60L27
		CHECKED -	REVISED - T. RAMMACHER 02-02-99		FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT							
		DATE -	REVISED - C. JUCIUS 01-31-07									

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

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



FILE NAME =	USER NAME = galbanjr
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PLOT SCALE = 10.0000' / 1" =	
PLOT DATE = 10/1/2011	

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE 120 AT FLEMING RD.
CROSS SECTIONS**

SCALE: SHEET NO. OF SHEETS STA. 213+45.43 TO STA. 217+13.40

F.A.P. RTE. 333	SECTION 15-N-5	COUNTY McHENRY	TOTAL SHEETS 67	SHEET NO. 61
FED. ROAD DIST. NO. ILLINOIS		CONTRACT NO. 60L27		
FED. AID PROJECT				

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

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



FILE NAME = c:\pw_work\pwidot\galbenjr\d0107803\p113707-sh

USER NAME = galbenjr
 DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

DESIGNED -
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 CHECKED -
 DATE -

REVISED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

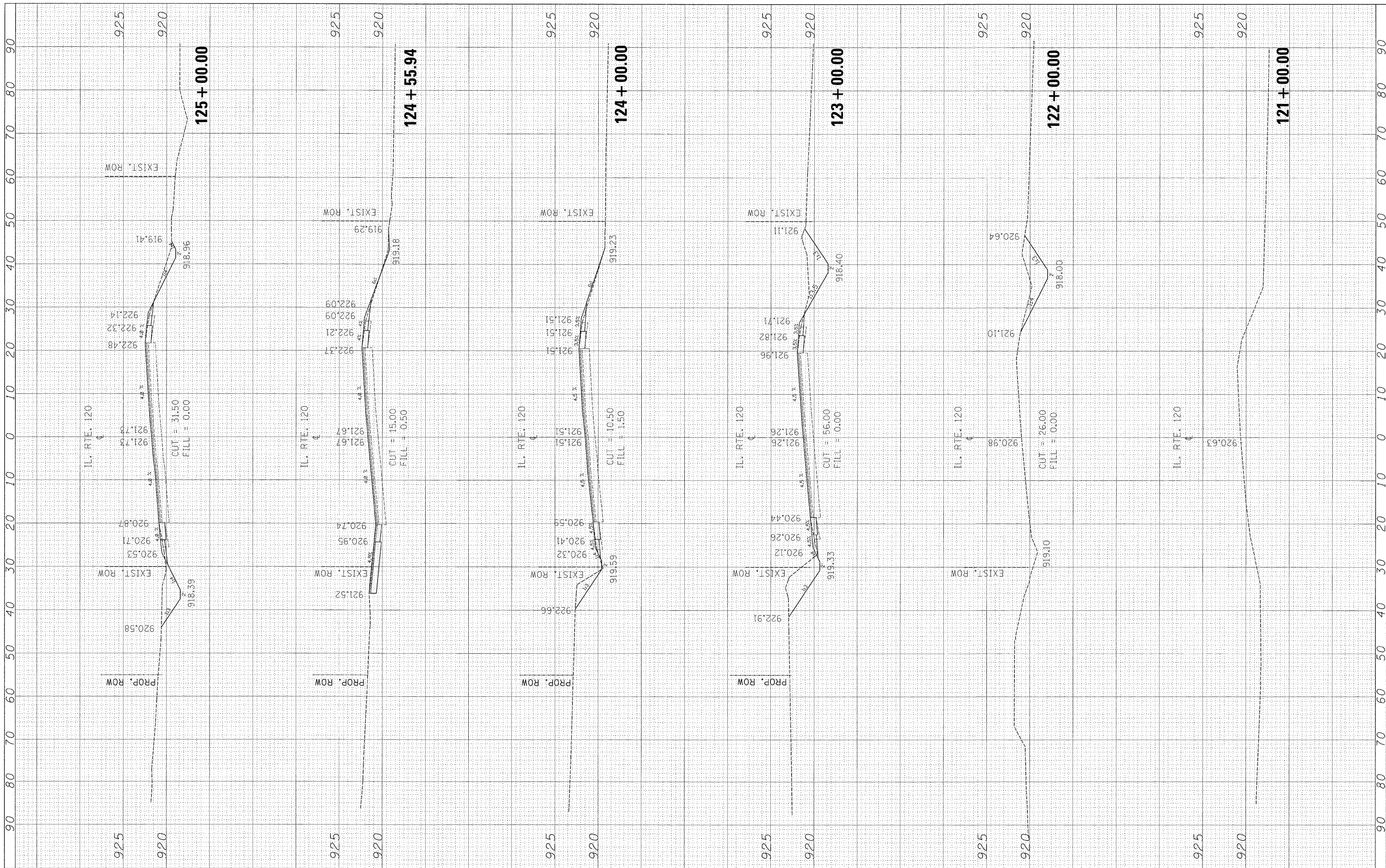
**ILLINOIS ROUTE 120 AT FLEMING RD.
 CROSS SECTIONS**

SCALE: SHEET NO. OF SHEETS STA. 218+00.00 TO STA. 219+37.06

F.A.P. RTE. 333	SECTION 15-N-6	COUNTY McHENRY	TOTAL SHEETS 67	SHEET NO. 62
CONTRACT NO. 60L27				
ILLINOIS FED. AID PROJECT				

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

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



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 DATE -

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

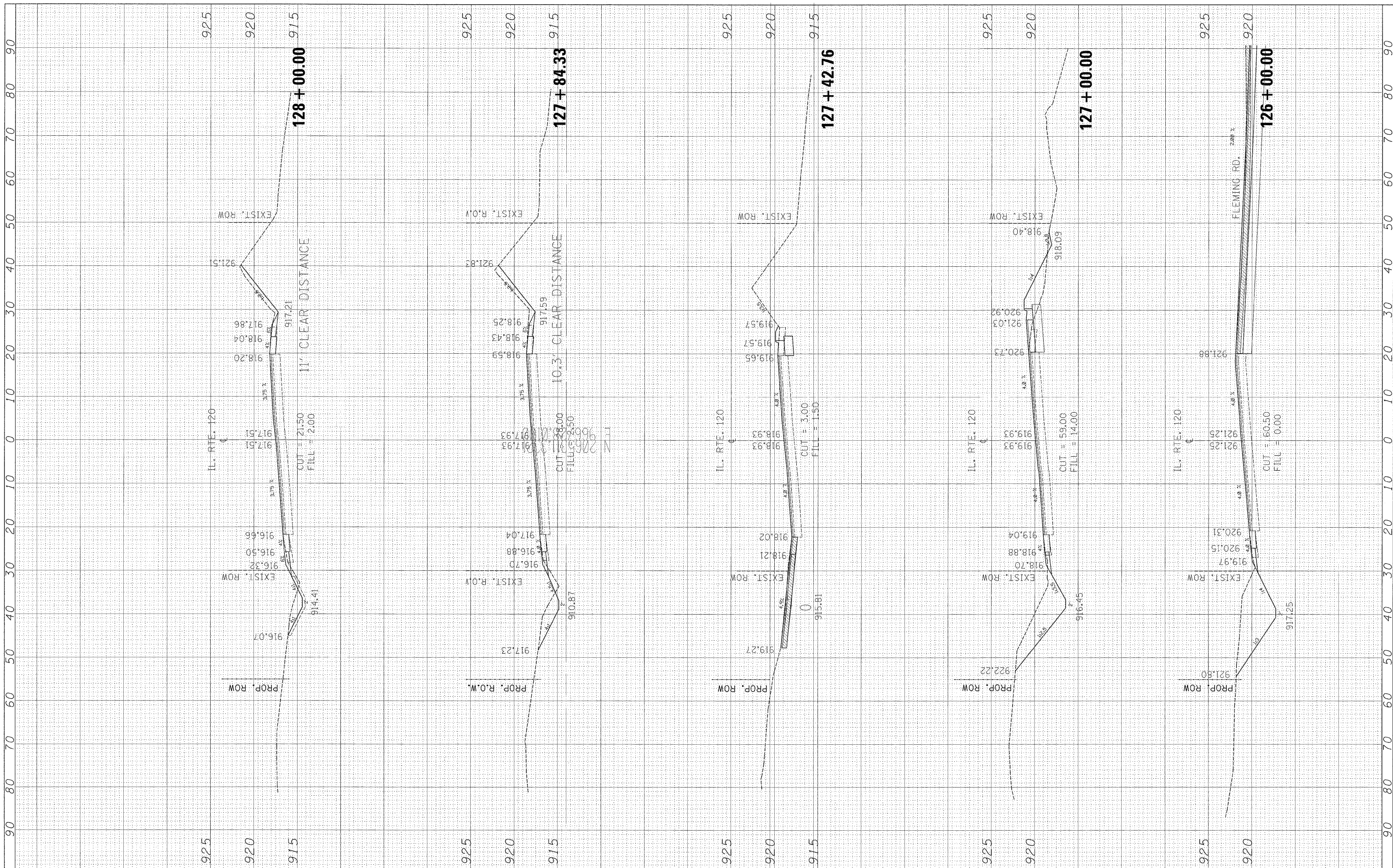
**IL. RTE. 120 AT FLEMING RD.
 CROSS SECTIONS**

SCALE: SHEET NO. OF SHEETS STA. 121+00.00 TO STA. 125+00.00

F.A.P. RTE. 333	SECTION 15-N-6	COUNTY McHenry	TOTAL SHEETS 67	SHEET NO. 63
CONTRACT NO. 60L27				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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

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



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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**IL. RTE. 120 AT FLEMING RD.
 CROSS SECTIONS**

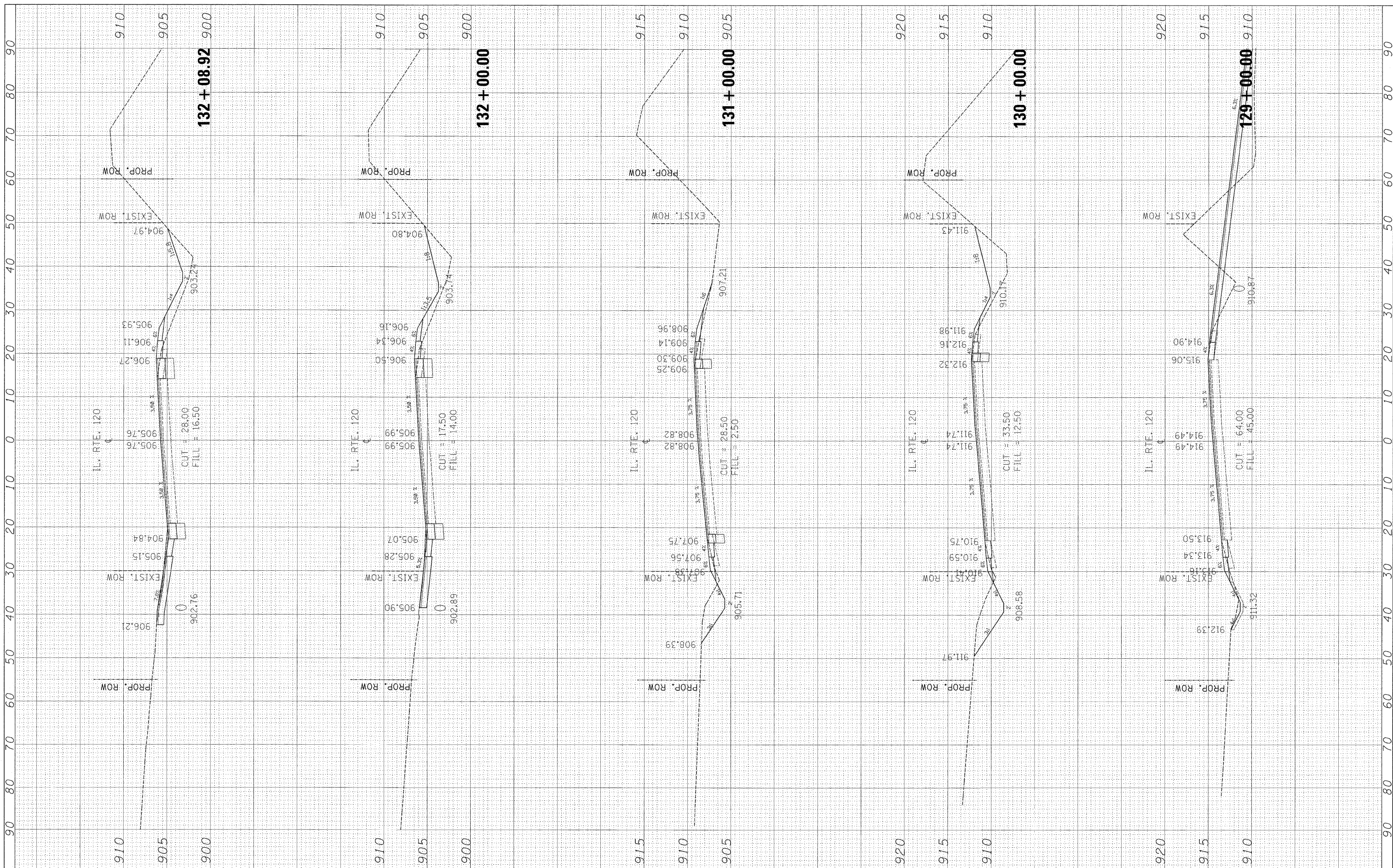
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	15-N-6	McHenry	67	64
CONTRACT NO. 60L27				

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

FINAL	SURVEYED	DATE
NO.	PLOTTED	BY
	TEMPLATE	
	AREAS	
	CHECKED	

ORIGINAL	SURVEYED	DATE
NO.	PLOTTED	BY
	TEMPLATE	
	AREAS	
	CHECKED	



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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

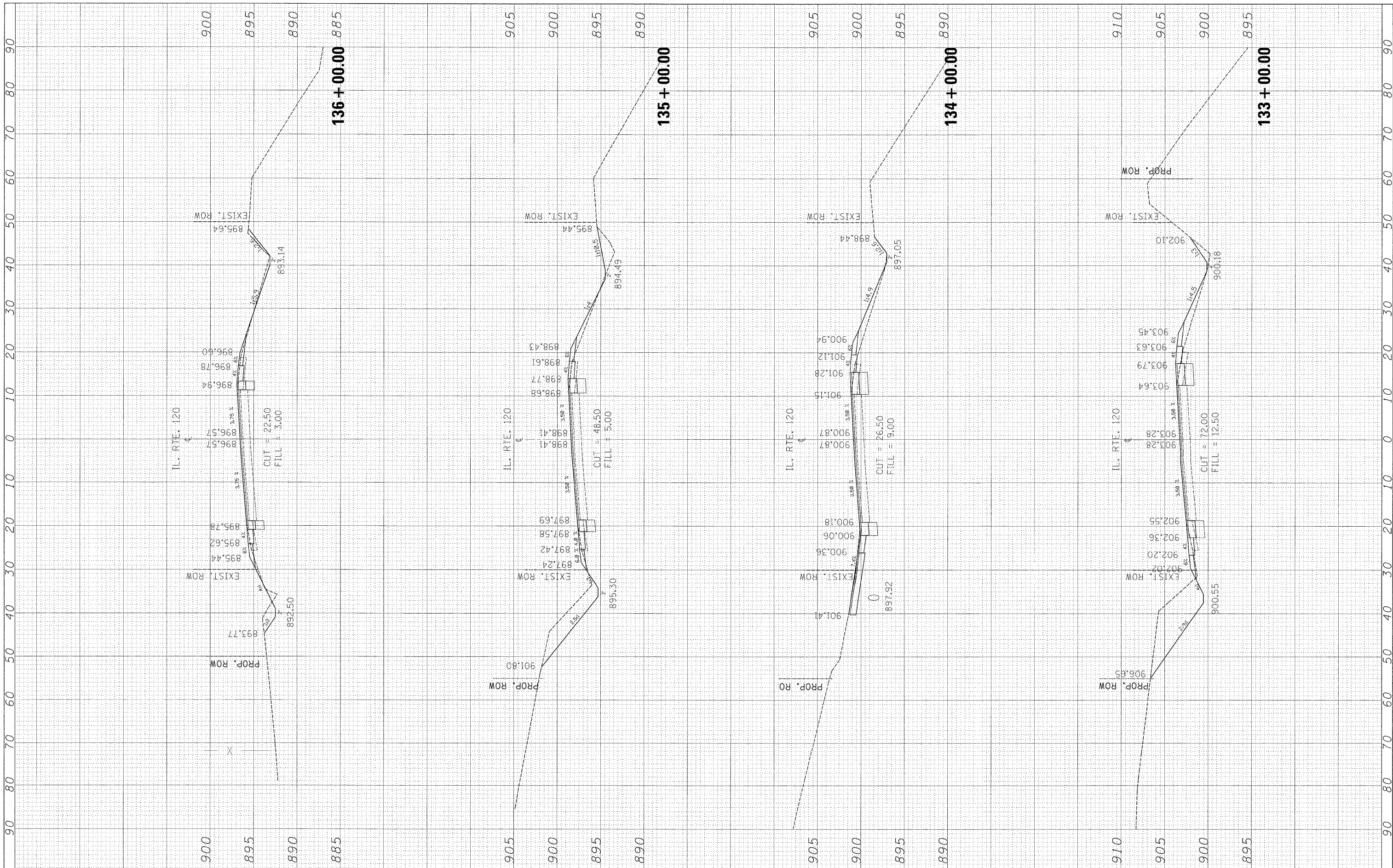
**IL. RTE. 120 AT FLEMING RD.
 CROSS SECTIONS**

SCALE: SHEET NO. OF SHEETS STA. 129+00.00 TO STA. 132+08.92

F.A.P. RTE. 333	SECTION 15-N-6	COUNTY McHenry	TOTAL SHEETS 67	SHEET NO. 65
CONTRACT NO. 60L27				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SUBMITTED	BY	DATE
	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY NO.	SUBMITTED	BY	DATE
	PLOTTED		
	TEMPLATE		
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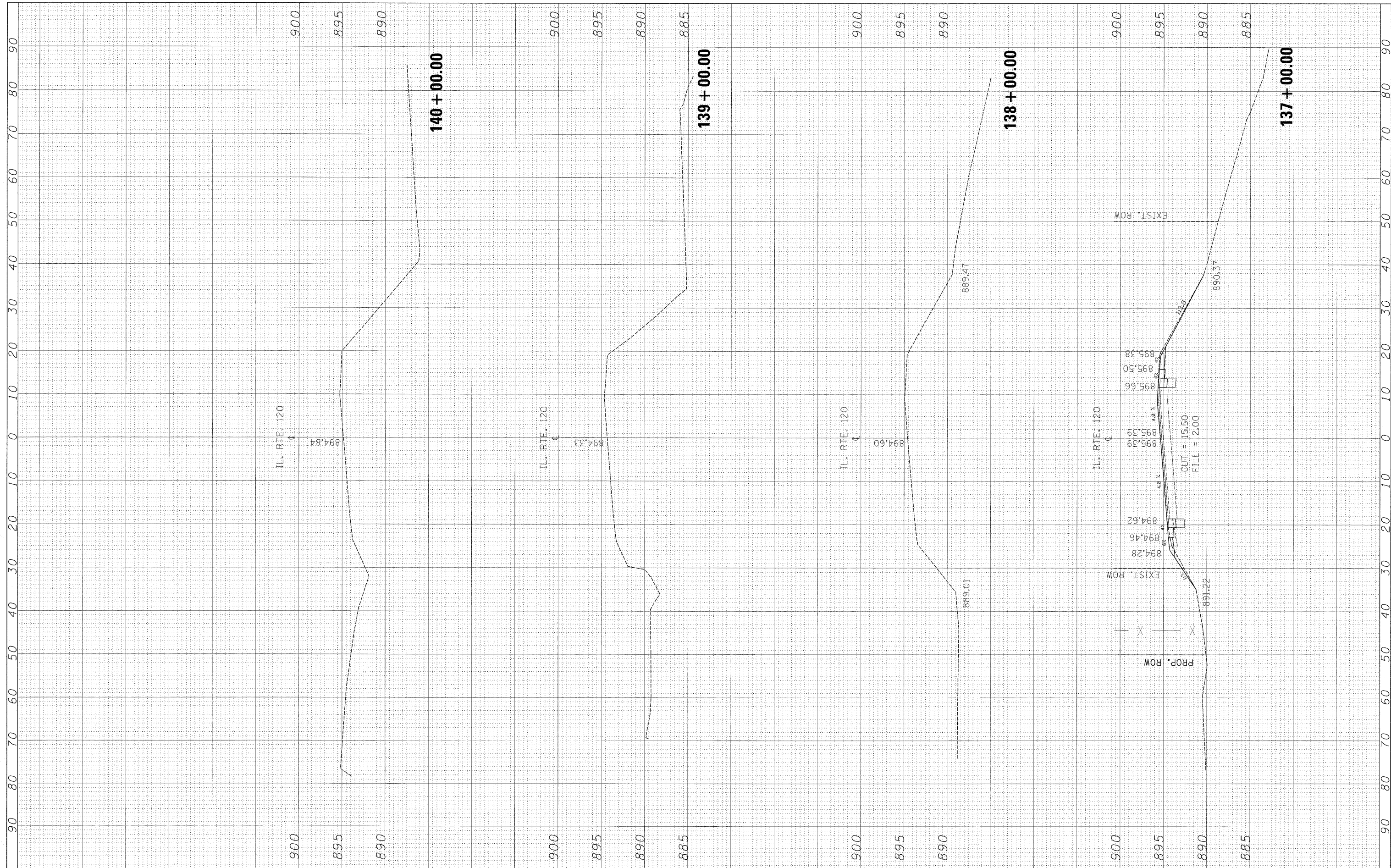
IL. RTE. 120 AT FLEMING RD.
 CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 133+00.00 TO STA. 136+00.00

F.A.P. RTE. 333	SECTION 15-N-6	COUNTY McHenry	TOTAL SHEETS 67	SHEET NO. 66
CONTRACT NO. 60L27				
ILLINOIS FED. AID PROJECT				

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

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



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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**IL. RTE. 120 FLEMING RD.
 CROSS SECTIONS**

SCALE: SHEET NO. OF SHEETS STA. 137+00.00 TO STA. 140+00.00

F.A.P. RTE. 333	SECTION 15-N-6	COUNTY McHenry	TOTAL SHEETS 67	SHEET NO. 67
CONTRACT NO.			ILLINOIS FED. AID PROJECT	