

F.A.P. FALL 135 127	SECTION 15-00124-00-PV	COUNTY McHENRY	TOTAL SHEETS 121	SHEET NO. 1
ILLINOIS			CONTRACT NO. 61H27	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

11-05-2021 LETTING ITEM 089

# STATE OF ILLINOIS

## DEPARTMENT OF TRANSPORTATION

# PLANS FOR PROPOSED FEDERAL AID HIGHWAY

### FAP ROUTE 335 (IL ROUTE 176) 2ND STREET TO ILLINOIS STREET FAU 124 (MAIN STREET)

### UNION PACIFIC RAILROAD TO FAP 335 (IL ROUTE 176) WIDENING, RESURFACING, TRAFFIC SIGNAL

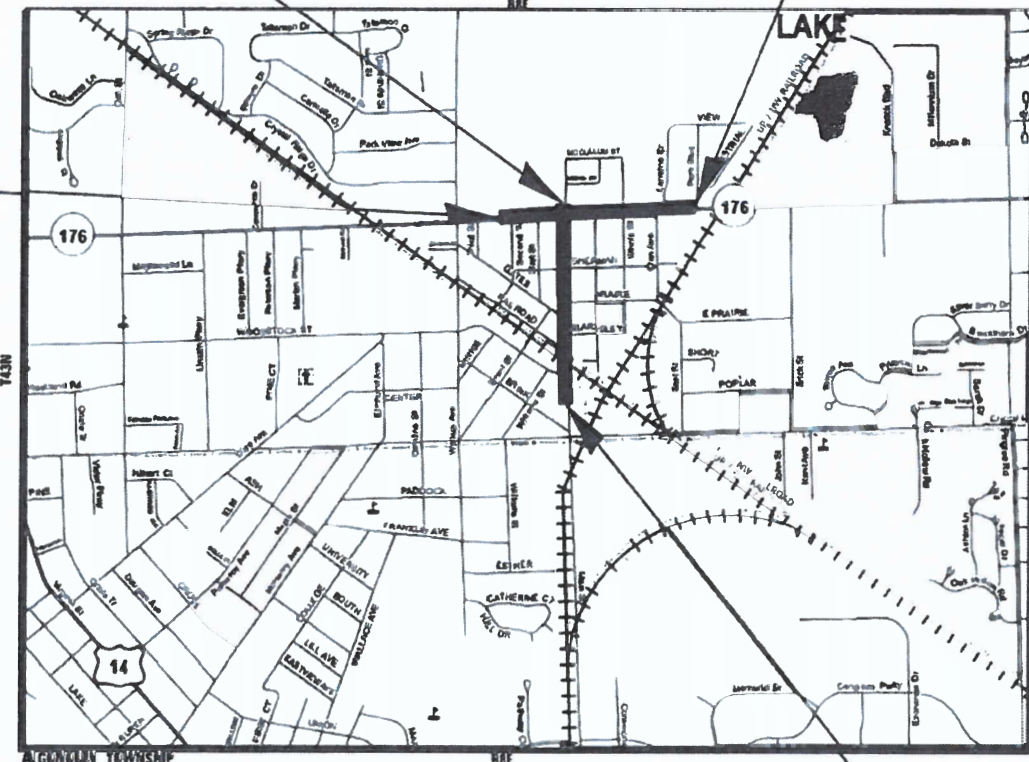
### SECTION: 15-00124-00-PV PROJECT: 6WDZ(009) CITY OF CRYSTAL LAKE McHENRY COUNTY C-91-172-16

END IMPROVEMENT MAIN STREET STA 31+20

END IMPROVEMENTS IL ROUTE 176 STA 123+00

BEGIN IMPROVEMENTS IL ROUTE 176 STA 99+98

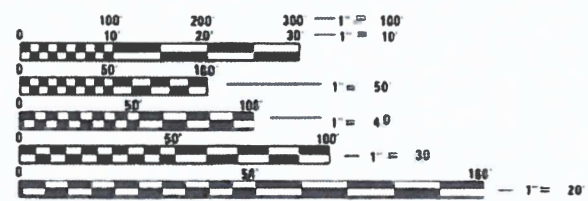
BEGIN IMPROVEMENTS MAIN STREET STA 4+48



#### TRAFFIC DATA

IL ROUTE 176 = OTHER PRINCIPAL ARTERIAL  
 POSTED SPEED LIMIT = 30 MPH  
 DESIGN SPEED LIMIT = 35 MPH  
 2015 ADT = 15,700

MAIN STREET = MINOR COLLECTOR  
 POSTED SPEED LIMIT = 30 MPH  
 DESIGN SPEED LIMIT = 35 MPH  
 2017 ADT = 10,428



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.

JULI.E. DESIGN STAGE REQUEST  
 DIG. No. X1520639



CONTACT JULIE AT 811 OR 800-892-0123 WITH THE FOLLOWING:  
 COUNTY McHENRY  
 CITY-TOWNSHIP = CRYSTAL LAKE  
 SEC. & 1/4 SEC. NO. S32/S33 T44N R8E, S4/S5 T43N R8E  
 48 HOURS (2 working days) BEFORE YOU DIG

GROSS LENGTH = 4,074 FT. = 0.77 MILE  
 NET LENGTH = 4,074 FT. = 0.77 MILE

**BAXTER & WOODMAN**  
 Consulting Engineers



PROJECT MANAGER  
 LICENSE EXPIRES 11-30-2021



PROJECT ENGINEER  
 LICENSE EXPIRES 11-30-2021

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	
APPROVED	7/26/2021 <i>[Signature]</i> CITY OF CRYSTAL LAKE
PASSED	AUG 24, 2021 <i>[Signature]</i> DISTRICT 1 ENGINEER OF LOCAL ROADS AND STREETS
RELEASING FOR BID BASED ON LIMITED REVIEW	AUGUST 24, 2021 <i>[Signature]</i> REGIONAL ENGINEER

**PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS**

FEDERAL AID PROGRAM ENGINEER: CARMEN E. RAMOS, P.E. SCHAUMBURG, IL

CONTRACT NO. 61H27

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BD-07	DISTRICT ONE DETAIL - DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER (BD-07)
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BD-24	DISTRICT ONE DETAIL- CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT (BD-24)
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BD-36	DISTRICT ONE DETAIL - FIRE HYDRANT TO BE MOVED (BD-36)
TC-10	DISTRICT ONE DETAIL - TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10)
TC-11	DISTRICT ONE DETAIL- TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) (TC-11)
TC-13	DISTRICT ONE DETAIL - TYPICAL PAVEMENT MARKINGS (TC-13)
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000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424011-04	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
424016-05	MID-BLOCK CURB RAMPS FOR SIDEWALKS
424031-02	MEDIAN PEDESTRIAN CROSSINGS
442201-03	CLASS C AND D PATCHES
601001-05	PIPE UNDERDRAINS
602001-02	CATCH BASIN TYPE A
602011-02	CATCH BASIN TYPE C
602301-04	INLET - TYPE A
602401-07	PRECAST MANHOLE TYPE A 4' (1.22m) DIAMETER
602402-03	PRECAST MANHOLE TYPE A 5' (1.52m) DIAMETER
602406-11	PRECAST MANHOLE TYPE A 6' (1.83 m) DIAMETER
602411-09	PRECAST MANHOLE TYPE A 7' (2.13 m) DIAMETER
602601-06	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604001-05	FRAME AND LIDS TYPE 1
604036-03	GRATE TYPE 8
604051-04	FRAME AND GRATE TYPE 11
604091-04	FRAME AND GRATE TYPE 24
606001-07	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606301-04	PC CONCRETE ISLANDS AND MEDIANS
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS - DAY ONLY
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≤ 40 MPH
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701502-09	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
701602-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720016-04	MAST ARM MOUNTED STREET NAME SIGNS
728001-01	TELESCOPING STEEL SIGN SUPPORT
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
814001-03	HANDHOLES
814006-03	DOUBLE HANDHOLES
821101-02	LUMINAIRE WIRING IN POLE
830026-01	TEMPORARY ROADWAY LIGHTING
836001-04	LIGHT POLE FOUNDATION
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
877001-08	STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
877006-06	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS
878001-11	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUTS FOR DETECTION LOOPS

**COMMITMENTS**

THERE ARE NO COMMITMENTS FOR THIS PROJECT

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USER NAME	DESIGNED	REVISED
morris	DJS	10-05-2021
DRAWN	CHECKED	REVISED
KRB	ABS	
PLOT SCALE	DATE	FILE
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PLOT DATE		
10/5/2021		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, HIGHWAY STANDARDS, AND COMMITMENTS			
SCALE: NONE	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	15-00124-00-PV	MCHENRY	121	2
CONTRACT NO. 61H27				
ILLINOIS   FED. AID PROJECT				



GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE DETAILS IN THE PLANS, THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS, AND THE FOLLOWING STATE OF ILLINOIS SPECIFICATIONS: THE APRIL 1, 2016 EDITION OF "THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (REFERRED TO AS THE "STANDARD SPECIFICATIONS"), THE JANUARY 1, 2021 EDITION OF THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", THE 2009 EDITION OF "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", THE "MANUAL OF TEST PROCEDURES FOR MATERIALS" AND THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS".
2. ALL RELEVANT UTILITIES SHALL BE NOTIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. SEE SPECIAL PROVISIONS FOR STATUS OF UTILITIES FOR CONTACT INFORMATION OF UTILITY OWNERS.
3. THE CONTRACTOR'S SUPERINTENDENT OR AUTHORIZED AGENT, AS DEFINED IN ARTICLE 105.06 OF THE STANDARD SPECIFICATIONS, MUST BE AVAILABLE IN CASE OF EMERGENCIES ON A TWENTY-FOUR (24) HOUR BASIS.
4. AT THE TIME OF THE PRECONSTRUCTION CONFERENCE, THE CONTRACTOR SHALL SUBMIT FOR APPROVAL THE PROPOSED CONCRETE TRUCK WASHOUT LOCATIONS. RUNOFF FROM WASH AREAS SHALL BE CONTAINED IN DESIGNATED AREAS SO THAT RUNOFF DOES NOT REACH THE DITCH. WASH OUTS SHALL NOT BE PLACED IN IL ROUTE 176 ROW.
5. THE CONTRACTOR SHALL NOTIFY THE CITY PUBLIC WORKS ADMINISTRATOR AT LEAST 48 HOURS IN ADVANCE OF BEGINNING WORK TO OBTAIN CITY UTILITY LOCATIONS.
6. THE CONTRACTOR MAY OBTAIN MUNICIPAL WATER IN BULK, AT NO CHARGE, AS LONG AS THERE IS NOT A "WATERING BAN" IN EFFECT. THE INDISCRIMINATE USE OF FIRE HYDRANTS IS STRICTLY PROHIBITED. CONTRACTOR SHALL PLACE A DEPOSIT WITH THE CITY OF CRYSTAL LAKE'S PUBLIC WORKS DEPARTMENT FOR USE OF A CITY ISSUED WATER METER FOR USE OF WATER FROM AN APPROVED HYDRANT. THE CONTRACTOR SHALL PROVIDE THE WATER TRUCK AND DRIVER REQUIRED TO OBTAIN AND TRANSPORT THIS WATER. THE CITY RESERVES THE RIGHT TO RESTRICT OR REFUSE THE USE OF CITY WATER IF DEEMED NECESSARY.
7. ACCESS TO ALL DRIVEWAYS AND SIDEWALK SHALL BE PROVIDED AT ALL TIMES EXCEPT DURING ACTUAL CONSTRUCTION ADJACENT THERE TO. TEMPORARY RAMPS SHALL BE CONSTRUCTED AS NEEDED TO PROVIDE SUCH ACCESS, UTILIZING TEMPORARY AGGREGATE AS TEMPORARY ACCESS. TEMPORARY ACCESS FOR SIDEWALKS SHALL BE ADA COMPLIANT.
8. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER, RESIDENTS AND THE CITY WHEN ACCESS TO DRIVEWAYS WILL BE TEMPORARILY CLOSED DUE TO CURB AND GUTTER AND/OR DRIVEWAY REPLACEMENT. THE CONTRACTOR SHALL DISTRIBUTE NOTICES PROVIDED BY THE CITY TO RESIDENTS AT LEAST 24 HOURS PRIOR TO PLANNED CLOSURE. EVERY EFFORT SHALL BE MADE TO ACCOMMODATE ACCESS TO THESE PROPERTIES INCLUDING KNOCKING ON DOORS WHEN DRIVEWAYS ARE ABOUT TO BE CLOSED.
9. PORTLAND CEMENT CONCRETE SIDEWALK SHALL BE THICKENED TO 8-INCHES AT LOCATIONS WHERE THE SIDEWALK CROSSES DRIVEWAYS. TRANSVERSE EXPANSION JOINTS 3/4" SHALL BE PLACED EVERY 50 FEET OR AS DETERMINED BY THE ENGINEER. TRANSVERSE CONTRACTION JOINTS SHALL BE PLACED EVERY 5-FEET.
10. CLASS PP CONCRETE SHALL BE USED TO BACKFILL ALL FRAME AND LID CASTING LOCATED WITHIN THE PAVEMENT IF PLACEMENT OF SURFACE COURSE IS PLANNED IN LESS THAN 72 HOURS. HMA MATERIALS WILL NOT BE ALLOWED AS BACKFILL AROUND AN ADJUSTED CASTING. THIS WORK SHALL APPLY TO ALL CASTINGS ADJUSTED OR RECONSTRUCTED AS PART OF THIS CONTRACT.
11. THE CURB SHALL BE TAPERED TO THE GUTTER IN A FIVE (5) FOOT LENGTH WHEREVER THE CURB AND GUTTER TERMINATES, WITH AN EXPANSION JOINT PLACED AT THE START OF THE TAPER.
12. STORM STRUCTURE OFFSET LOCATIONS ARE TO THE EDGE OF PAVEMENT IF THE STRUCTURE IS IN THE CURB LINE OR TO THE CENTER OF STRUCTURE IF THE STRUCTURE IS NOT IN THE CURBLINE.
13. FRAME ELEVATIONS GIVEN ON THE PLANS ARE ONLY TO ASSIST THE CONTRACTOR IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF THE STRUCTURE. FRAMES ON ALL NEW STRUCTURES SHALL BE ADJUSTED TO THE FINAL ELEVATION OF THE AREA IN WHICH THEY ARE LOCATED AS PART OF COST OF THE STRUCTURE.
14. WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES WHERE THE SPEED LIMIT IS 45 MPH OR LESS, AND SHALL NOT EXCEED 1 INCH WHERE THE SPEED LIMIT IS OVER 45 MPH. A MAXIMUM GRADE DIFFERENCE OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM OF 1:3 (V:H), AS DETERMINED BY THE ENGINEER.
15. THE DAYS PAVING OPERATION SHOULD RESULT IN A SINGLE TRANSVERSE JOINT. ANY COLD LONGITUDINAL JOINTS WILL NOT BE ACCEPTED. PROVIDING A SINGLE TRANSVERSE JOINT SHALL BE ACCOMPLISHED BY PAVING ONE LANE OF SUFFICIENT LENGTH THAT WILL ALLOW FOR THE PAVING OF THE ADJACENT LANE IN THE SAME DAY.
16. THE SURVEY DATUM USED FOR THIS PROJECT IS NAVD88.
17. THE RESIDENT ENGINEER SHALL CONTACT WALTER CZARNY, AREA TRAFFIC FIELD ENGINEER VIA EMAIL AT WALTER.CZARNY@ILLINOIS.GOV AT LEAST (2) WEEKS PRIOR TO PLACING PERMANENT PAVEMENT MARKINGS.
18. ALL STORM SEWER LIDS LOCATED WITHIN CROSSWALK OR SIDEWALK SHALL BE ADA COMPLIANT.
19. GEOTECHNICAL FABRIC FOR GROUND STABILIZATION AND/OR AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAVE BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSTABLE AND/OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ABOVE ITEM WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC OR DYNAMIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 OF THE SSRBC AND IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.
20. ANY AGGREGATE SUBGRADE IMPROVEMENT CONTAMINATED AND/OR DAMAGED BY THE CONTRACTOR'S VEHICLES AND/OR EQUIPMENTS IS TO BE REMOVED AND REPLACED AS DIRECT BY THE ENGINEER.
21. THE CONTRACTOR SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

WATER MAIN GENERAL NOTES

22. SIZES OF EXISTING WATER MAINS WERE DETERMINED FROM CITY OF CRYSTAL LAKE WATER MAIN ATLASES AND PLANS, AND MAY NOT REPRESENT ACTUAL WATER MAIN SIZES. THE CONTRACTOR SHALL HAVE AN ADEQUATE NUMBER OF FITTINGS AND LINE STOPS AVAILABLE TO COMPLETE WORK WITHOUT DELAYS DUE TO WATER MAIN PIPE SIZES DIFFERING FROM THOSE SHOWN ON DRAWINGS.
23. CONTRACTOR TO NOTIFY RESIDENTS AT LEAST 48 HOURS PRIOR TO ANY DISRUPTION OR SHUTDOWN OF RESIDENTS' WATER SERVICE.
24. FIRE HYDRANTS SHALL BE ROTATED SO PUMPER NOZZLE FACES THE ADJACENT ROADWAY.
25. DEFLECT WATER MAIN JOINTS WITH A MAXIMUM OF 75% OF THE MANUFACTURER'S RECOMMENDED MAXIMUM JOINT DEFLECTION ANGLE TO OBTAIN CHANGES IN ALIGNMENT.
26. INSTALL NEW WATER MAINS BENEATH EXISTING WATER MAINS AND WATER SERVICE PIPES, UNLESS OTHERWISE NOTED.
27. THE FINAL LOCATION OF NEW WATER SERVICES SHALL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER.
28. WATER SERVICES SHALL BE INSTALLED AFTER NEW WATER MAINS HAVE BEEN TESTED, DISINFECTED, FLUSHED, AND ACCEPTED FOR USE BY THE ENGINEER.
29. ABANDON AND REMOVE EXISTING WATER MAINS, FIRE HYDRANTS, VALVES, VALVE VAULTS AND SERVICE BOXES, AND SERVICE LINES AFTER ALL NEW WATER SERVICES HAVE BEEN CONNECTED TO THE NEW WATER MAINS. THE CITY SHALL BE NOTIFIED ONCE FIRE HYDRANTS AND VALVES ARE REMOVED, AND THESE SHALL BE STORED ON SITE UNTIL THE CITY INSPECTS AND SALVAGES ANY USABLE PARTS. AFTER CITY INSPECTION ALL REMAINING REMOVAL ITEMS ARE TO BE DISPOSED OFF SITE AT NO COST TO THE CONTRACT.

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	PLOT DATE = 8/27/2021	CHECKED - ABS	REVISED -
		DATE - 08-26-2021	FILE - 181171_ss2-sht-GenNotes.dgn

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SCALE: NONE	SHEET	OF	SHEETS	STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	15-00124-00-PV	MCHENRY	121	3
CONTRACT NO. 61H27			ILLINOIS FED. AID PROJECT	

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM  
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2022  
 asramek 8/27/2021  
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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE				
				ROUTE 176 80% FED 10% STATE 10% CITY	MAIN STREET 80% FED 10% STATE 10% CITY	ROUTE 176 100% CITY	MAIN STREET 100% CITY	ROUTE 176 100% CITY
				ROADWAY 0004	ROADWAY 0004	WATER MAIN 0043	WATER MAIN 0043	LIGHTING/SIGNALS 0021
				URBAN	URBAN	URBAN	URBAN	URBAN
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	116	88	28			
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	66	66				
20101350	TREE PRUNING (OVER 10 INCH DIAMETER)	EACH	2	2				
20101000	TEMPORARY FENCE	FOOT	580	60	520			
20200100	EARTH EXCAVATION	CU YD	976	666	310			
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	170	161	9			
20800150	TRENCH BACKFILL	CU YD	4,325.4	881.6	88.8	2,290.0	1,065.0	
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	317	221	96			
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	290	112	102	42	34	
25200110	SODDING, SALT TOLERANT	SQ YD	5,495	2,918	1,900	378	299	
25200200	SUPPLEMENTAL WATERING	UNIT	52	27	18	4	3	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	101	61	40			
28000400	PERIMETER EROSION BARRIER	FOOT	240	240				
28000510	INLET FILTERS	EACH	35	18	17			
28001100	TEMPORARY EROSION CONTROL BLANKET	SQ YD	5,493	2,916	1,900	378	299	

\* INDICATES SPECIALTY ITEM  
 § INDICATES CONSTRUCTION CODE 0042 TRAINEES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE				
				ROUTE 176 80% FED 10% STATE 10% CITY	MAIN STREET 80% FED 10% STATE 10% CITY	ROUTE 176 100% CITY	MAIN STREET 100% CITY	ROUTE 176 100% CITY
				ROADWAY 0004	ROADWAY 0004	WATER MAIN 0043	WATER MAIN 0043	LIGHTING/SIGNALS 0021
				URBAN	URBAN	URBAN	URBAN	URBAN
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	99	69	30			
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	1,476	1,031	445			
35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	2,739	1,790	949			
35400300	PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 8"	SQ YD	20		20			
35400500	PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 10"	SQ YD	20	20				
35501318	HOT-MIX ASPHALT BASE COURSE, 8 1/2"	SQ YD	401		401			
35501325	HOT-MIX ASPHALT BASE COURSE, 10 1/4"	SQ YD	891	891				
35600710	HOT-MIX ASPHALT BASE COURSE WIDENING, 8 1/2"	SQ YD	44		44			
35600717	HOT-MIX ASPHALT BASE COURSE WIDENING, 10 1/4"	SQ YD	140	140				
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	4,392	1,896	2,496			
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	268	83	185			
40602985	HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N70	TON	180	55	125			
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	507	92	415			
40603200	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50	TON	741	322	419			
40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	843		843			

\* INDICATES SPECIALTY ITEM  
 § INDICATES CONSTRUCTION CODE 0042 TRAINEES



USER NAME = asramek	DESIGNED - DJ5	REVISED -
PLOT SCALE = 40,0000' / in.	DRAWN - KAR	REVISED -
PLOT DATE = 8/27/2021	CHECKED - AKS	REVISED -
	DATE - 08-26-2021	FILE - 181171_ss2-sht-SOQ.dgn

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES			
SCALE: NONE	SHEET 1 OF 9 SHEETS	STA.	TO STA.

F.A.P. RTE. 335	SECTION 15-00124-00-PV	COUNTY McHENRY	TOTAL SHEETS 121	SHEET NO. 4
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H27	



STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM  
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2022  
 MODEL: Default  
 FILE NAME: R:\Crystal Lake\CRYL181171-North Main St PH I\CAD\Sheets\181171\_ss2-sht-SOQ.dgn



USER NAME = asramek	DESIGNED - DJS	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - KAR	REVISED -
PLOT DATE = 8/27/2021	CHECKED - AKS	REVISED -
	DATE - 08-26-2021	FILE - 181171_ss2-sht-SOQ.dgn

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SCALE: NONE		SHEET 2 OF 9 SHEETS		STA.	TO STA.
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SUMMARY OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	15-00124-00-PV	McHENRY	121	5
CONTRACT NO. 61H27				
ILLINOIS   FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE				
				ROUTE 176 80% FED 10% STATE 10% CITY	MAIN STREET 80% FED 10% STATE 10% CITY	ROUTE 176 100% CITY	MAIN STREET 100% CITY	ROUTE 176 100% CITY
				ROADWAY 0004	ROADWAY 0004	WATER MAIN 0043	WATER MAIN 0043	LIGHTING/SIGNALS 0021
				URBAN	URBAN	URBAN	URBAN	URBAN
40605026	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5. MIX "F", N80	TON	744	744				
42001300	PROTECTIVE COAT	SQ YD	8,426	5,418	3,008			
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	175	135		40		
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	25,493	16,080	8,483	930		
42400410	PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH	SQ FT	1,090	650	400	40		
42400800	DETECTABLE WARNINGS	SQ FT	375	182	193			
44000100	PAVEMENT REMOVAL	SQ YD	212	159	53			
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	9,530		9,530			
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	6,542	6,542				
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	1,619	928	581	110		
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	7,054	3,215	3,469	370		
44000600	SIDEWALK REMOVAL	SQ FT	19,040	9,627	8,483	930		
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	477		477			
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SQ YD	616		568	48		
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	2,083		953	1,130		

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 § INDICATES CONSTRUCTION CODE 0042 TRAINEES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE				
				ROUTE 176 80% FED 10% STATE 10% CITY	MAIN STREET 80% FED 10% STATE 10% CITY	ROUTE 176 100% CITY	MAIN STREET 100% CITY	ROUTE 176 100% CITY
				ROADWAY 0004	ROADWAY 0004	WATER MAIN 0043	WATER MAIN 0043	LIGHTING/SIGNALS 0021
				URBAN	URBAN	URBAN	URBAN	URBAN
44201789	CLASS D PATCHES, TYPE II, 12 INCH	SQ YD	328	328				
44201794	CLASS D PATCHES, TYPE III, 12 INCH	SQ YD	433	433				
44201796	CLASS D PATCHES, TYPE IV, 12 INCH	SQ YD	1,596			1,596		
550A2320	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 12"	FOOT	32			32		
550A2520	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 12"	FOOT	423	259	164			
550A2530	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 15"	FOOT	325	325				
550A2540	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 18"	FOOT	247	247				
550A2600	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 36"	FOOT	244	244				
550A2610	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 42"	FOOT	88	88				
550A2620	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 48"	FOOT	91	91				
55100300	STORM SEWER REMOVAL, 8"	FOOT	818	337	376	105		
55100400	STORM SEWER REMOVAL, 10"	FOOT	157	55	51	51		
55100500	STORM SEWER REMOVAL, 12"	FOOT	1,128	981	72	75		
55100700	STORM SEWER REMOVAL, 15"	FOOT	97		97			
55100900	STORM SEWER REMOVAL, 18"	FOOT	44		44			

\* INDICATES SPECIALTY ITEM  
 § INDICATES CONSTRUCTION CODE 0042 TRAINEES

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM  
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2022  
 MODEL: Default  
 FILE NAME: I:\Crystal Lake\CRYL\181171-North Main St PH IICAD\Sht\181171\_ss2-sht-SOQ.dgn



USER NAME = asramex	DESIGNED - DJS	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - KAR	REVISED -
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SCALE: NONE		SHEET 3 OF 9 SHEETS		STA. TO STA.
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F.A.P. RTE. 335	SECTION 15-00124-00-PV	COUNTY McHENRY	TOTAL SHEETS 121	SHEET NO. 6
CONTRACT NO. 61H27				
ILLINOIS   FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE					
				ROUTE 176 80% FED 10% STATE 10% CITY	MAIN STREET 80% FED 10% STATE 10% CITY	ROUTE 176 100% CITY	MAIN STREET 100% CITY	ROUTE 176 100% CITY	
				ROADWAY 0004	ROADWAY 0004	WATER MAIN 0043	WATER MAIN 0043	LIGHTING/SIGNALS 0021	
				URBAN	URBAN	URBAN	URBAN	URBAN	
55101400	STORM SEWER REMOVAL, 30"	FOOT	16	16					
55101600	STORM SEWER REMOVAL, 36"	FOOT	137	137					
* 56103200	DUCTILE IRON WATER MAIN 10"	FOOT	742			742			
* 56103300	DUCTILE IRON WATER MAIN 12"	FOOT	1,225			1,225			
* 56103700	DUCTILE IRON WATER MAIN, MECHANICAL JOINT 4"	FOOT	80			80			
* 56103800	DUCTILE IRON WATER MAIN, MECHANICAL JOINT 6"	FOOT	113			55	58		
* 56103900	DUCTILE IRON WATER MAIN, MECHANICAL JOINT 8"	FOOT	358			358			
* 56104000	DUCTILE IRON WATER MAIN, MECHANICAL JOINT 10"	FOOT	155			40	115		
* 56104100	DUCTILE IRON WATER MAIN, MECHANICAL JOINT 12"	FOOT	385			385			
* 56105000	WATER VALVES 8"	EACH	7			7			
* 56105100	WATER VALVES 10"	EACH	2			1	1		
* 56105200	WATER VALVES 12"	EACH	4			4			
* 56400500	FIRE HYDRANTS TO BE REMOVED	EACH	6			5	1		
* 56400820	FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX	EACH	9			6	3		
60108204	PIPE UNDERDRAINS, TYPE 2, 4"	FOOT	1,693	1,185	508				

\* INDICATES SPECIALTY ITEM  
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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE					
				ROUTE 176 80% FED 10% STATE 10% CITY	MAIN STREET 80% FED 10% STATE 10% CITY	ROUTE 176 100% CITY	MAIN STREET 100% CITY	ROUTE 176 100% CITY	
				ROADWAY 0004	ROADWAY 0004	WATER MAIN 0043	WATER MAIN 0043	LIGHTING/SIGNALS 0021	
				URBAN	URBAN	URBAN	URBAN	URBAN	
60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1		1				
60201105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11 FRAME AND GRATE	EACH	4	2	1		1		
60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	6	5		1			
60204805	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 11 FRAME AND GRATE	EACH	1		1				
60205040	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	3	3					
60207605	CATCH BASINS, TYPE C, TYPE 8 GRATE	EACH	1	1					
60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	EACH	3	3					
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	6	5	1				
60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	3	3					
60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	4	4					
60224039	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	2	2					
60224446	MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	2					
60234200	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	EACH	2		2				
60236800	INLETS, TYPE A, TYPE 11 FRAME AND GRATE	EACH	3	1	2				
60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	EACH	1	1					

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STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM  
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 MODEL: Default  
 FILE NAME: I:\Crystal Lake\CRYL\181171-North Main St PH IICAD\Sheets\181171\_ss2-sht-SOQ.dgn



USER NAME = asramek	DESIGNED - DJS	REVISED -
PLOT SCALE = 40.0000' / 1"	DRAWN - KAR	REVISED -
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	DATE - 08-26-2021	FILE - 181171_ss2-sht-SOQ.dgn

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE SHEET 4 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	15-00124-00-PV	MCHEMRY	121	7
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H27	

CONSTRUCTION CODE				
ROUTE 176 80% FED 10% STATE 10% CITY	MAIN STREET 80% FED 10% STATE 10% CITY	ROUTE 176 100% CITY	MAIN STREET 100% CITY	ROUTE 176 100% CITY
ROADWAY 0004 URBAN	ROADWAY 0004 URBAN	WATER MAIN 0043 URBAN	WATER MAIN 0043 URBAN	LIGHTING/SIGNALS 0021 URBAN

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROUTE 176 80% FED 10% STATE 10% CITY	MAIN STREET 80% FED 10% STATE 10% CITY	ROUTE 176 100% CITY	MAIN STREET 100% CITY	ROUTE 176 100% CITY
60253000	CATCH BASINS TO BE RECONSTRUCTED WITH NEW TYPE 1 FRAME, OPEN LID	EACH	2	2				
60255700	MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, OPEN LID	EACH	4	2	2			
60255800	MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	7	3	4			
60258200	MANHOLES TO BE RECONSTRUCTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	2	2				
60260300	INLETS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, OPEN LID	EACH	3	3				
60261540	INLETS TO BE ADJUSTED WITH NEW TYPE 24 FRAME AND GRATE	EACH	1	1				
60264140	INLETS TO BE RECONSTRUCTED WITH NEW TYPE 24 FRAME AND GRATE	EACH	2	2				
60265900	VALVE VAULTS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	8	2	6			
60500040	REMOVING MANHOLES	EACH	21	17	4			
60500050	REMOVING CATCH BASINS	EACH	7	3	2	1	1	
60600605	CONCRETE CURB, TYPE B	FOOT	40		40			
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	3,193		3,193			
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	3,585		3,215		370	
61000050	CONCRETE THRUST BLOCKS	EACH	5			5		
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	460	430	30			

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 § INDICATES CONSTRUCTION CODE 0042 TRAINEES

CONSTRUCTION CODE				
ROUTE 176 80% FED 10% STATE 10% CITY	MAIN STREET 80% FED 10% STATE 10% CITY	ROUTE 176 100% CITY	MAIN STREET 100% CITY	ROUTE 176 100% CITY
ROADWAY 0004 URBAN	ROADWAY 0004 URBAN	WATER MAIN 0043 URBAN	WATER MAIN 0043 URBAN	LIGHTING/SIGNALS 0021 URBAN

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROUTE 176 80% FED 10% STATE 10% CITY	MAIN STREET 80% FED 10% STATE 10% CITY	ROUTE 176 100% CITY	MAIN STREET 100% CITY	ROUTE 176 100% CITY
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	6	5	1			
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	LSUM	1	1				
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	LSUM	1	1				
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	25	20	5			
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	10	10				
67100100	MOBILIZATION	LSUM	1	1				
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	300	300				
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	900	600	300			
70300100	SHORT TERM PAVEMENT MARKING	FOOT	64,840	22,592	42,248			
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	21,614	7,531	14,083			
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	1,282	614	668			
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	21,372	7,468	13,904			
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	9,292	1,212	8,080			
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	3,960	852	3,108			
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	724	188	536			

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STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM  
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 MODEL Default  
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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE				
				ROUTE 176 80% FED 10% STATE 10% CITY	MAIN STREET 80% FED 10% STATE 10% CITY	ROUTE 176 100% CITY	MAIN STREET 100% CITY	ROUTE 176 100% CITY
				ROADWAY 0004	ROADWAY 0004	WATER MAIN 0043	WATER MAIN 0043	LIGHTING/SIGNALS 0021
				URBAN	URBAN	URBAN	URBAN	URBAN
* 70300904	PAVEMENT MARKING TAPE, TYPE IV 4"	FOOT	8,880	4,740	4,140			
* 70300924	PAVEMENT MARKING TAPE, TYPE IV 24"	FOOT	362	94	268			
* 72000100	SIGN PANEL - TYPE 1	SQ FT	291.75	94.75	197.00			
	72400100 REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	18	10	8			
* 72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	1	1				
* 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	518	168	350			
* 73100100	BASE FOR TELESCOPING STEEL SIGN SUPPORT	EACH	1	1				
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	1,541	307	334	900		
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	10,686	3,734	6,952			
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	4,646	606	4,040			
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	1,818	366	1,212	240		
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	482	94	268	120		
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	38	38				
	78300200 RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	38	38				
* 81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL 2" DIA.	FOOT	1,668	1,668				

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 § INDICATES CONSTRUCTION CODE 0042 TRAINEES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE				
				ROUTE 176 80% FED 10% STATE 10% CITY	MAIN STREET 80% FED 10% STATE 10% CITY	ROUTE 176 100% CITY	MAIN STREET 100% CITY	ROUTE 176 100% CITY
				ROADWAY 0004	ROADWAY 0004	WATER MAIN 0043	WATER MAIN 0043	LIGHTING/SIGNALS 0021
				URBAN	URBAN	URBAN	URBAN	URBAN
* 81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL 3" DIA.	FOOT	70	70				
* 81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL 4" DIA.	FOOT	271	271				
* 81400100	HANDHOLE	EACH	5	5				
* 81400200	HEAVY DUTY HANDHOLE	EACH	2	2				
* 81400300	DOUBLE HANDHOLE	EACH	2	2				
* 83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	24		24			
* 84200804	REMOVAL OF POLE FOUNDATION	EACH	4		4			
* 84400105	RELOCATE EXISTING LIGHTING UNIT	EACH	4		4			
* 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1	1				
* 85100500	PAINT NEW TRAFFIC SIGNAL POST	EACH	3					3
* 85100600	PAINT NEW MAST ARM AND POLE, UNDER 40 FOOT	EACH	3					3
* 86400100	TRANSCEIVER - FIBER OPTIC	EACH	2	2				
* 87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	1,443	1,443				
* 87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 2C	FOOT	607	607				
* 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C	FOOT	856	856				

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USER NAME = asramek	DESIGNED - DJJ	REVISED -
PLOT SCALE = 40,000' / 1" = 1"	CHECKED - AKS	REVISED -
PLOT DATE = 8/27/2021	DATE - 08-26-2021	FILE - 181171_ss2-sht-SOQ.dgn

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE SHEET 5 OF 9 SHEETS STA. TO STA.

F.A.P. RTE. 335	SECTION 15-00124-00-PV	COUNTY McHENRY	TOTAL SHEETS 121	SHEET NO. 8
CONTRACT NO. 61H27			ILLINOIS FED. AID PROJECT	

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM  
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2022  
 MODEL: Default  
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USER NAME = asramek  
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 PLOT DATE = 8/27/2021

DESIGNED - DJS  
 DRAWN - KAR  
 CHECKED - AKS  
 DATE - 08-26-2021

REVISED -  
 REVISED -  
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE SHEET 6 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	15-00124-00-PV	McHENRY	121	9
CONTRACT NO. 61H27			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE					
				ROUTE 176 80% FED 10% STATE 10% CITY	MAIN STREET 80% FED 10% STATE 10% CITY	ROUTE 176 100% CITY	MAIN STREET 100% CITY	ROUTE 176 100% CITY	
				ROADWAY 0004	ROADWAY 0004	WATER MAIN 0043	WATER MAIN 0043	LIGHTING/SIGNALS 0021	
				URBAN	URBAN	URBAN	URBAN	URBAN	
* 87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	1,091	1,091					
* 87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7C	FOOT	1,153	1,153					
* 87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2,230	2,230					
* 87301305	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	91	91					
* 87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1,086	1,086					
* 87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3	3					
* 87700170	STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1	1					
* 87700180	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1	1					
* 87700200	STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1	1					
* 87702400	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 28 FT. AND 32 FT.	EACH	1	1					
* 87800100	CONCRETE FOUNDATION, TYPE A	FOOT	16	16					
* 87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4	4					
* 87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	27	27					
* 87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	28	28					
* 87900200	DRILL EXISTING HANDHOLE	EACH	1	1					

\* INDICATES SPECIALTY ITEM  
 § INDICATES CONSTRUCTION CODE 0042 TRAINEES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE					
				ROUTE 176 80% FED 10% STATE 10% CITY	MAIN STREET 80% FED 10% STATE 10% CITY	ROUTE 176 100% CITY	MAIN STREET 100% CITY	ROUTE 176 100% CITY	
				ROADWAY 0004	ROADWAY 0004	WATER MAIN 0043	WATER MAIN 0043	LIGHTING/SIGNALS 0021	
				URBAN	URBAN	URBAN	URBAN	URBAN	
* 88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4	4					
* 88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4	4					
* 88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2	2					
* 88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	6	6					
* 88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4	4					
* 88500100	INDUCTIVE LOOP DETECTOR	EACH	7	7					
* 88600100	DETECTOR LOOP, TYPE 1	FOOT	305	305					
* 88700200	LIGHT DETECTOR	EACH	2						2
* 88700300	LIGHT DETECTOR AMPLIFIER	EACH	1						1
* 88800100	PEDESTRIAN PUSH BUTTON	EACH	4	4					
* 89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	538	538					
* A2012001	TREE, AESCULUS X CARNE BRIOTTI (BRIOTTI HORSECHESTNUT), 2" CALIPER, BALLED AND BURLAPPED	EACH	2	2					
* B2000121	TREE, ACER TATARICUM (TATARIAN MAPLE), 2" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	4	4					
* B2000216	TREE, SYRINGA RETICULATA (JAPANESE TREE LILAC), 2" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	2	2					
* K0036120	MULCH PLACEMENT 4"	SQ YD	37	11	26				

\* INDICATES SPECIALTY ITEM  
 § INDICATES CONSTRUCTION CODE 0042 TRAINEES

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM  
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2022  
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USER NAME = asramek	DESIGNED - DJS	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - KAR	REVISED -
PLOT DATE = 8/27/2021	CHECKED - AKS	REVISED -
	DATE - 08-26-2021	FILE - 181171_ss2-sht-SOQ.dgn

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE SHEET 7 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	15-00124-00-PV	McHENRY	121	10
CONTRACT NO. 61H27			ILLINOIS FED. AID PROJECT	

CONSTRUCTION CODE				
ROUTE 176 80% FED 10% STATE 10% CITY	MAIN STREET 80% FED 10% STATE 10% CITY	ROUTE 176 100% CITY	MAIN STREET 100% CITY	ROUTE 176 100% CITY
ROADWAY 0004	ROADWAY 0004	WATER MAIN 0043	WATER MAIN 0043	LIGHTING/SIGNALS 0021
URBAN	URBAN	URBAN	URBAN	URBAN

CONSTRUCTION CODE				
ROUTE 176 80% FED 10% STATE 10% CITY	MAIN STREET 80% FED 10% STATE 10% CITY	ROUTE 176 100% CITY	MAIN STREET 100% CITY	ROUTE 176 100% CITY
ROADWAY 0004	ROADWAY 0004	WATER MAIN 0043	WATER MAIN 0043	LIGHTING/SIGNALS 0021
URBAN	URBAN	URBAN	URBAN	URBAN

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROUTE 176 80% FED 10% STATE 10% CITY	MAIN STREET 80% FED 10% STATE 10% CITY	ROUTE 176 100% CITY	MAIN STREET 100% CITY	ROUTE 176 100% CITY
* X0300558	SANITARY SEWER REMOVAL AND REPLACEMENT 8"	FOOT	152			152		
* X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	222					222
* X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	525	525				
* X0324930	DUCTILE IRON SLEEVE, 12"	EACH	2			2		
* X0325003	REMOVE EXISTING VALVE AND VAULT	EACH	6			4	2	
X0327611	REMOVE AND REINSTALL BRICK PAVER	SQ FT	850		850			
* X0327698	LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	4					4
* X0327769	INSERTION VALVES, 10"	EACH	2			2		
X0540000	BRICK PAVERS	SQ FT	160		160			
* X1200016	SANITARY SERVICE REPLACEMENT	EACH	15			4	11	
* X1200221	NON-PRESSURE CONNECTION TO EXISTING WATER MAIN	EACH	9			8	1	
* X1200246	WATERMAIN CASING PIPE	FOOT	314			314		
* X1400108	FULL-ACTUATED CONTROLLER AND TYPE SUPER R CABINET (SPECIAL)	EACH	1	1				
* X1400150	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1	1				
* X1400201	RADAR VEHICLE DETECTION SYSTEM, SINGLE APPROACH, STOP BAR	EACH	2	2				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROUTE 176 80% FED 10% STATE 10% CITY	MAIN STREET 80% FED 10% STATE 10% CITY	ROUTE 176 100% CITY	MAIN STREET 100% CITY	ROUTE 176 100% CITY
X1400424	ELECTRIC CABLE IN CONDUIT, STREET NAME SIGN, NO. 14 3C, TYPE SODW	FOOT	548					548
X2130010	EXPLORATION TRENCH, SPECIAL	FOOT	100	100				
X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	38	20	18			
X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	6	3	3			
X4240800	DETECTABLE WARNINGS (SPECIAL)	SQ FT	16		16			
* X5610647	PLUG WATER MAIN 8"	EACH	5			5		
* X5610649	PLUG WATER MAIN 12"	EACH	1			1		
* X5610744	WATER MAIN LINE STOP 4"	EACH	7			5	2	
* X5610748	WATER MAIN LINE STOP 8"	EACH	3			2	1	
* X5610750	WATER MAIN LINE STOP 10"	EACH	3			2	1	
* X5610752	WATER MAIN LINE STOP 12"	EACH	3			2	1	
* X5620116	WATER SERVICE CONNECTION (SHORT)	EACH	32			18	14	
* X5620118	WATER SERVICE CONNECTION (LONG)	EACH	22			10	12	
* X5610746	WATER MAIN LINE STOP 6"	EACH	2			1	1	
X6020094	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE	EACH	1	1				

\* INDICATES SPECIALTY ITEM  
 § INDICATES CONSTRUCTION CODE 0042 TRAINEES



STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM  
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2022  
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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE					
				ROUTE 176 80% FED 10% STATE 10% CITY	MAIN STREET 80% FED 10% STATE 10% CITY	ROUTE 176 100% CITY	MAIN STREET 100% CITY	ROUTE 176 100% CITY	
				ROADWAY 0004 URBAN	ROADWAY 0004 URBAN	WATER MAIN 0043 URBAN	WATER MAIN 0043 URBAN	LIGHTING/SIGNALS 0021 URBAN	
X6026056	SANITARY MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	14	8	6				
* X6026623	VALVE BOX	EACH	1			1			
* X6640304	CHAIN LINK FENCE TO BE REMOVED AND RE-ERECTED	FOOT	10	10					
X7010216	TRAFFIC CONTROL AND PROTECTION. (SPECIAL)	LSUM	1	1					
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	17,657	4,818	12,839				
* X8600105	MASTER CONTROLLER (SPECIAL)	EACH	1	1					
* X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1	1					
* X8710024	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F 5M24F	FOOT	1,443	1,443					
* XX008839	WATER MAIN TO BE ABANDONED	LSUM	1			1			
* XX009238	INSERTION VALVES, 12"	EACH	1			1			
* XX009475	PAINT NEW MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, UNDER 40 FEET	EACH	1	1					
Z0004530	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 8"	SQ YD	947	529	388	30			
Z0004538	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 10"	SQ YD	257	104	113	40			
Z0013798	CONSTRUCTION LAYOUT	LSUM	1	1					
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	6	3	3				

\* INDICATES SPECIALTY ITEM  
 § INDICATES CONSTRUCTION CODE 0042 TRAINEES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE					
				ROUTE 176 80% FED 10% STATE 10% CITY	MAIN STREET 80% FED 10% STATE 10% CITY	ROUTE 176 100% CITY	MAIN STREET 100% CITY	ROUTE 176 100% CITY	
				ROADWAY 0004 URBAN	ROADWAY 0004 URBAN	WATER MAIN 0043 URBAN	WATER MAIN 0043 URBAN	LIGHTING/SIGNALS 0021 URBAN	
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	77.1	51.4	25.7				
* Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	10	10					
* Z0033056	OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1	1					
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	LSUM	1		1				
Z0056604	STORM SEWER (WATER MAIN REQUIREMENTS) 8 INCH	FOOT	127			127			
Z0056606	STORM SEWER (WATER MAIN REQUIREMENTS) 10 INCH	FOOT	51			51			
Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	FOOT	245	133	37	75			
Z0056610	STORM SEWER (WATER MAIN REQUIREMENTS) 15 INCH	FOOT	160	63		97			
Z0056612	STORM SEWER (WATER MAIN REQUIREMENTS) 18 INCH	FOOT	80	36		44			
Z0062456	TEMPORARY PAVEMENT	SQ YD	2,446			1,846	600		
* Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	19	18	1				
§ Z0076600	TRAINEES	HOUR	500						
§ Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500						
* Z0077700	WOOD FENCE TO BE REMOVED AND RE-ERECTED	FOOT	38	38					
* <del>XX009483</del>	DUCTILE IRON WATER MAIN IN STEEL CASING PIPE, 20-INCH	FOOT	61			61			

\* INDICATES SPECIALTY ITEM  
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	USER NAME = asramek	DESIGNED - DJS	REVISED -
	PLOT SCALE = 40,0000' / in.	DRAWN - KAR	REVISED -
	PLOT DATE = 8/27/2021	CHECKED - AKS	REVISED -
		DATE - 08-26-2021	FILE - 181171_ss2-sht-SOQ.dgn

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES			
SCALE: NONE	SHEET 8 OF 9 SHEETS	STA. TO STA.	

F.A.P. RTE. 335	SECTION 15-00124-00-PV	COUNTY McHENRY	TOTAL SHEETS 121	SHEET NO. 11
CONTRACT NO. 61H27				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM  
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2022  
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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE				
				ROUTE 176 80% FED 10% STATE 10% CITY	MAIN STREET 80% FED 10% STATE 10% CITY	ROUTE 176 100% CITY	MAIN STREET 100% CITY	ROUTE 176 100% CITY
				ROADWAY 0004	ROADWAY 0004	WATER MAIN 0043	WATER MAIN 0043	LIGHTING/SIGNALS 0021
				URBAN	URBAN	URBAN	URBAN	URBAN
* XX009484	DUCTILE IRON WATER MAIN IN STEEL CASING PIPE, 16-INCH	FOOT	21			21		
* XY009485	DUCTILE IRON SLEEVE, 10"	EACH	2				2	
* XX009486	DUCTILE IRON SLEEVE, 4"	EACH	6			6		
* XY009486	INSERTION VALVE AND BOX	EACH	6			4	2	
* XY009487	INSERTION VALVES, 4"	EACH	1			1		
* XX009488	INSERTION VALVES, 6"	EACH	1			1		
* XX009489	INSERTION VALVES, 8"	EACH	1			1		

\* INDICATES SPECIALTY ITEM  
 § INDICATES CONSTRUCTION CODE 0042 TRAINEES

<b>BAXTER &amp; WOODMAN</b> Civil & Mechanical Engineers	USER NAME = asramek	DESIGNED - DJS	REVISED -
	PLOT SCALE = 40,0000 ' / in.	DRAWN - KAR	REVISED -
	PLOT DATE = 8/27/2021	CHECKED - AKS	REVISED -
		DATE - 08-26-2021	FILE - 181171_ss2-sht-SOQ.dgn

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE SHEET 9 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	15-00124-00-PV	McHENRY	121	12
CONTRACT NO. 61H27			ILLINOIS FED. AID PROJECT	

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM  
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EARTHWORK												
LOCATION STA TO STA	1	2	3	4	5	6	7	8	10	11	12	13
	TOPSOIL EXCAVATION (DEPTH 6") (CU YD)	TOPSOIL EXCAVATION FOR PLACEMENT (15% SHRINKAGE) (CU YD)	TOPSOIL EXCAVATION AND PLACEMENT (DEPTH 6") (CU YD)	TOPSOIL BALANCE WASTE (+) OR SHORTAGE (-) (CU YD)	AGGREGATE SUBGRADE IMPROVEMENT (CU YD)	UNSUITABLE EXCAVATION (TOPSOIL) (CU YD)	REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL (CU YD)	EARTH EXCAVATION (CU YD)	TOTAL SUITABLE EXCAVATION (CU YD)	EXCAVATION TO BE USED IN EMBANKMENT (15% SHRINKAGE) (CU YD)	EMBANKMENT (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CU YD)
<b>MAIN STREET</b>	<b>+126</b>	<b>+108</b>	<b>+102</b>	<b>+6</b>	<b>-</b>	<b>+10</b>	<b>+9</b>	<b>+310</b>	<b>+338</b>	<b>+289</b>	<b>+56</b>	<b>+233</b>
14+00.00 14+28.00	0.0	-	0.0	-	-	-	-	2.9	2.9	2.5	-	+3
14+28.00 14+50.00	0.0	-	0.0	-	-	-	-	6.6	6.6	5.7	-	+6
14+50.00 15+10.00	0.0	-	0.0	-	-	-	-	22.3	22.3	19.0	-	+19
15+10.00 15+50.00	0.0	-	0.0	-	-	-	-	7.0	7.0	6.0	-	+6
15+50.00 15+72.00	0.0	-	0.0	-	-	-	-	-	-	-	-	-
15+72.00 16+69.22	0.0	-	0.0	-	-	-	-	20.3	20.3	17.3	-	+17
16+69.22 17+53.88	8.6	7.4	3.4	+4.0	-	4.0	4.0	54.8	54.8	46.6	-	+47
17+53.88 18+00.00	15.5	13.3	10.2	+3.1	-	3.1	3.1	34.3	34.3	29.2	3.2	+26
18+00.00 18+34.13	11.3	9.7	9.5	+0.2	-	0.2	0.2	15.1	15.1	12.9	6.0	+7
18+34.13 19+07.71	7.2	6.1	7.2	(-1.1)	-	-	-	26.4	26.4	22.5	7.8	+15
19+07.71 19+31.31	1.9	1.7	1.4	+0.3	-	0.3	0.3	9.4	9.4	8.0	-	+8
19+31.31 19+67.07	5.3	4.6	3.8	+0.8	-	0.8	0.8	10.3	10.3	8.8	0.6	+8
19+67.07 20+00.00	3.0	2.6	2.7	(-0.1)	-	-	-	9.6	10.6	9.1	1.7	+7
20+00.00 20+35.86	1.8	1.6	1.4	+0.2	-	0.2	0.2	6.7	8.7	7.5	0.4	+7
20+35.86 20+43.12	0.2	0.3	0.2	+0.1	-	0.1	0.1	1.1	4.1	3.5	0.1	+3
20+43.12 21+00.00	8.6	7.4	7.9	(-0.5)	-	-	-	9.3	13.3	11.4	6.0	+5
21+00.00 21+48.25	5.7	4.9	5.3	(-0.4)	-	-	-	4.1	9.1	7.8	4.4	+3
21+48.25 22+00.00	4.7	4.0	4.3	(-0.3)	-	-	-	4.5	10.5	9.0	1.8	+7
22+00.00 22+59.58	10.3	8.8	8.9	(-0.1)	-	-	-	10.0	17.0	14.5	3.7	+11
22+59.58 25+00.00	3.0	2.6	2.7	(-0.1)	-	-	-	9.6	9.6	8.2	1.7	+6
25+00.00 25+50.00	1.8	1.6	1.4	+0.2	-	0.2	0.2	6.7	6.7	5.8	0.4	+5
25+50.00 26+15.02	0.2	0.3	0.2	+0.1	-	0.1	0.1	1.1	1.1	1.0	0.1	+1
26+15.02 26+23.60	8.6	7.4	7.9	(-0.5)	-	-	-	9.3	9.3	8.0	6.0	+2
26+23.60 26+40.40	5.7	4.9	5.3	(-0.4)	-	-	-	4.1	4.1	3.5	4.4	(-1)
26+40.40 26+79.73	4.7	4.0	4.3	(-0.3)	-	-	-	4.5	4.5	3.9	1.8	+2
26+79.73 27+00.00	10.3	8.8	8.9	(-0.1)	-	-	-	10.0	10.0	8.5	3.7	+5
27+00.00 27+50.00	6.4	5.5	5.1	+0.4	-	0.4	0.4	9.3	9.3	8.0	2.0	+6
<b>IL 176</b>	<b>316.0</b>	<b>269.9</b>	<b>111.3</b>	<b>158.6</b>	<b>-</b>	<b>161.0</b>	<b>161.0</b>	<b>665.8</b>	<b>665.8</b>	<b>567.9</b>	<b>224.7</b>	<b>343.2</b>
100+00.00 100+34.90	2.3	2.0	3.0	(-1.0)	-	-	-	4.8	4.8	4.1	2.9	+1
100+34.90 100+89.00	3.6	3.1	3.4	(-0.3)	-	-	-	11.7	11.7	10.0	7.1	+3
100+89.00 101+33.00	2.8	2.4	1.6	+0.8	-	0.8	0.8	12.5	12.5	10.7	6.0	+5
101+33.00 102+00.00	22.4	19.1	9.5	+9.6	-	9.6	9.6	27.8	27.8	23.7	18.0	+6
102+00.00 102+27.64	9.4	8.0	3.8	+4.2	-	4.2	4.2	11.9	11.9	10.2	5.4	+5
102+27.64 102+50.00	6.2	5.3	3.0	+2.3	-	2.3	2.3	10.1	10.1	8.6	5.0	+4
102+50.00 102+65.34	3.2	2.8	1.5	+1.3	-	1.3	1.3	7.1	7.1	6.1	3.3	+3
102+65.34 102+76.44	0.9	0.8	0.4	+0.4	-	0.4	0.4	5.1	5.1	4.4	-	+4
102+76.44 103+01.63	2.0	1.8	0.9	+0.9	-	0.9	0.9	5.8	5.8	5.0	-	+5
103+01.63 103+12.99	0.7	0.6	0.3	+0.3	-	0.3	0.3	2.7	2.7	2.3	0.1	+2
103+12.99 103+92.00	11.7	10.0	5.5	+4.5	-	4.5	4.5	38.2	38.2	32.5	1.3	+31
103+92.00 104+12.39	4.0	3.5	1.4	+2.1	-	2.1	2.1	9.0	9.0	7.7	1.1	+7
104+12.39 104+50.00	6.8	5.8	2.2	+3.6	-	3.6	3.6	20.1	20.1	17.2	4.2	+13
104+50.00 105+13.12	4.5	3.9	2.0	+1.9	-	1.9	1.9	40.3	40.3	34.3	4.2	+30
105+13.12 105+25.49	0.0	-	0.0	-	-	-	-	7.3	7.3	6.3	-	+6
105+25.49 105+62.65	2.6	2.3	1.8	+0.5	-	0.5	0.5	21.9	21.9	18.6	3.6	+15
105+62.65 105+75.00	1.9	1.7	0.9	+0.8	-	0.8	0.8	7.6	7.6	6.5	1.7	+5
105+75.00 106+00.00	4.0	3.4	1.5	+1.9	-	1.9	1.9	15.0	15.0	12.8	2.8	+10
106+00.00 106+50.00	13.2	11.2	4.2	+7.0	-	7.0	7.0	29.3	29.3	25.0	8.3	+17
106+50.00 107+00.00	19.0	16.2	4.5	+11.7	-	11.7	11.7	32.1	32.1	27.4	7.1	+20
107+00.00 107+81.86	31.0	26.4	8.8	+17.6	-	17.6	17.6	54.3	54.3	46.2	5.5	+41
107+81.86 108+00.00	8.7	7.4	3.6	+3.8	-	3.8	3.8	11.5	11.5	9.8	4.9	+5
108+00.00 108+50.00	31.1	26.5	13.1	+13.4	-	13.4	13.4	31.7	31.7	27.0	20.5	+7
108+50.00 108+76.55	8.7	7.5	5.3	+2.2	-	2.2	2.2	17.0	17.0	14.5	8.0	+6
108+76.55 108+91.89	0.0	-	1.1	(-1.1)	-	-	-	9.8	9.8	8.4	4.6	+4
108+91.89 109+17.74	2.3	2.0	0.0	+2.0	-	2.0	2.0	16.3	16.3	13.9	8.1	+6
109+17.74 109+50.00	9.8	8.4	2.1	+6.3	-	6.3	6.3	19.6	19.6	16.7	9.5	+7
109+50.00 110+00.00	13.9	11.8	3.2	+8.6	-	8.6	8.6	29.3	29.3	25.0	7.6	+17
110+00.00 110+50.00	18.0	15.3	3.5	+11.8	-	11.8	11.8	29.7	29.7	25.3	8.3	+17
110+50.00 110+83.18	9.9	8.4	2.3	+6.1	-	6.1	6.1	16.9	16.9	14.4	4.9	+10
110+83.18 111+50.00	6.5	5.6	1.5	+4.1	-	4.1	4.1	31.6	31.6	26.9	6.9	+20
111+50.00 111+75.18	5.5	4.7	1.5	+3.2	-	3.2	3.2	13.2	13.2	11.3	6.5	+5
111+75.18 112+00.00	9.9	8.5	3.0	+5.5	-	5.5	5.5	12.4	12.4	10.6	9.6	+1
112+00.00 112+61.00	25.7	21.9	7.8	+14.1	-	14.1	14.1	27.5	27.5	23.4	22.1	+1
112+61.00 113+00.00	9.0	7.7	2.4	+5.3	-	5.3	5.3	15.4	15.4	13.1	9.9	+3
113+00.00 113+50.00	4.5	3.9	0.9	+3.0	-	3.0	3.0	9.4	9.4	8.0	6.2	+2
<b>TOTALS</b>	<b>442</b>	<b>378</b>	<b>213</b>	<b>165</b>	<b>0</b>	<b>171</b>	<b>170</b>	<b>976</b>	<b>1,004</b>	<b>857</b>	<b>281</b>	<b>576</b>

COLUMN 1 = TOPSOIL REMOVAL DEPTH 6"  
 COLUMN 2 = [COLUMN 1] x 0.85  
 COLUMN 3 = FROM CROSS SECTION END AREAS, DEPTH 6"  
 COLUMN 4 = [COLUMN 2] - [COLUMN 3]  
 COLUMN 5 = ASSUMED TO BE 1' DEPTH  
 COLUMN 6 = [COLUMN 4] (IF COLUMN 4 > 0)  
 COLUMN 7 = [COLUMN 5] + [COLUMN 6]  
 COLUMN 8 = FROM CROSS SECTION END AREAS  
 COLUMN 10 = [COLUMN 8]  
 COLUMN 11 = [COLUMN 10] x 0.85  
 COLUMN 12 = FROM CROSS SECTION END AREAS  
 COLUMN 13 = [COLUMN 11] - [COLUMN 12]

**EARTHWORK PAY ITEM SUMMARY**

	TOTAL	CU YD
EARTH EXCAVATION	976	CU YD
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	170	CU YD
FURNISHED EXCAVATION	0	CU YD
TOPSOIL EXCAVATION AND PLACEMENT	213	CU YD
AGGREGATE SUBGRADE IMPROVEMENT	0	CU YD



USER NAME = asramek	DESIGNED - DJ5	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - KAR	REVISED -
PLOT DATE = 8/27/2021	CHECKED - AKS	REVISED -
	DATE - 08-26-2021	FILE - 181171_ss2-sht-SOQ.dgn

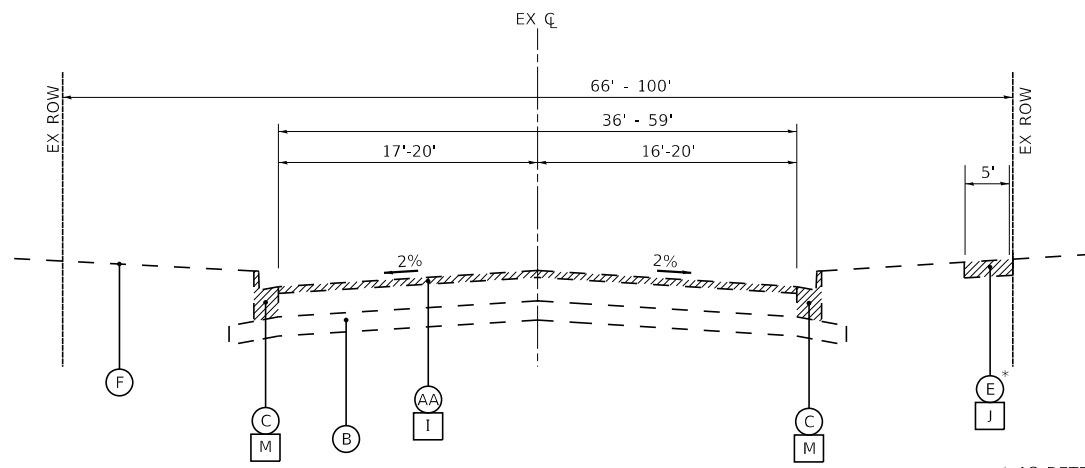
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

**EARTHWORK SCHEDULE**

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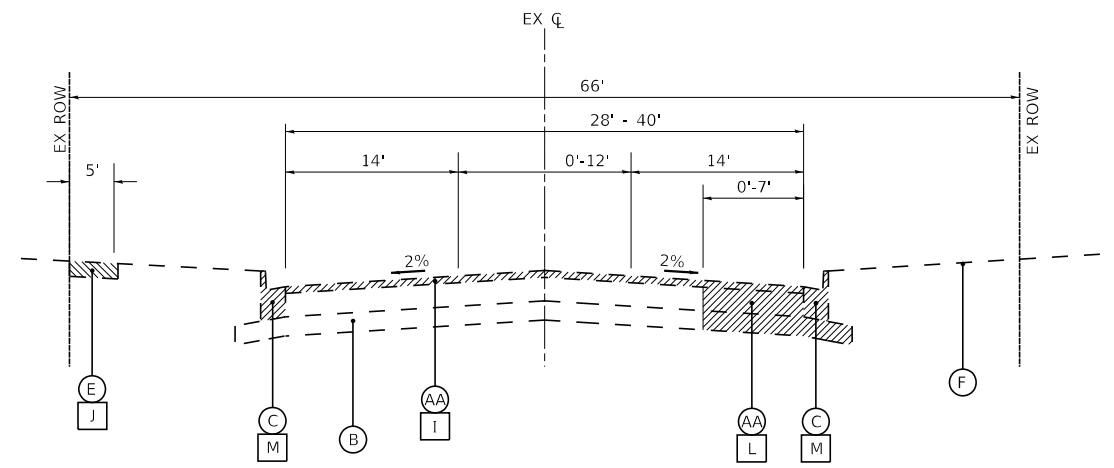
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	15-00124-00-PV	MCHENRY	121	13
CONTRACT NO. 61H27				
ILLINOIS FED. AID PROJECT				



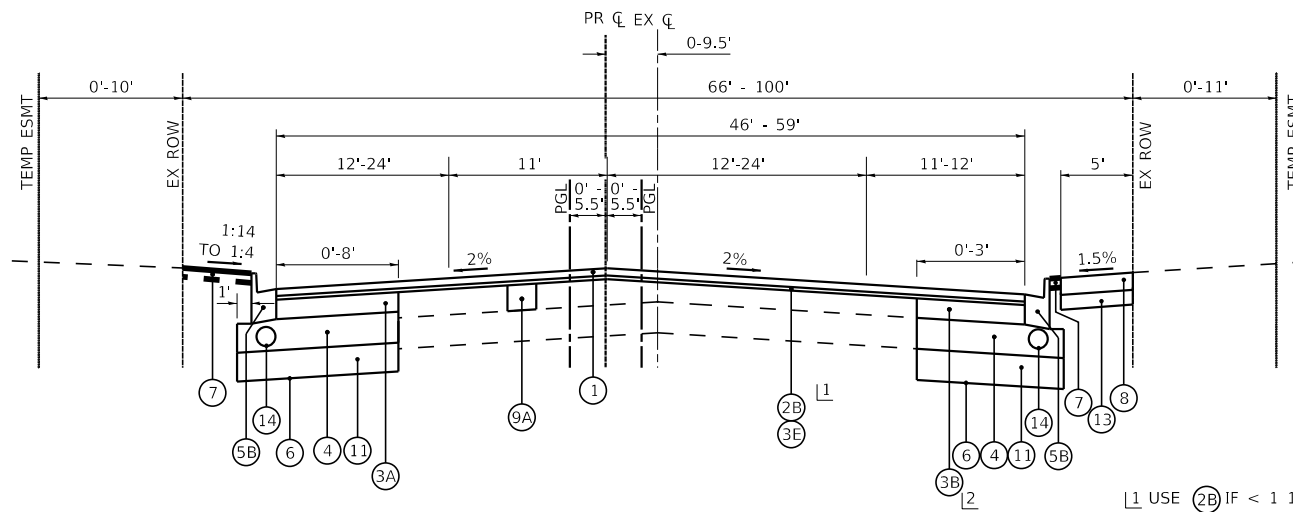


**EXISTING TYPICAL SECTION**  
 IL ROUTE 176 (TERRA COTTA AVENUE)  
 WEST APPROACH AT NORTH MAIN STREET INTERSECTION  
 STA 99+98 TO STA 107+45

\* AS DETERMINED BY THE ENGINEER

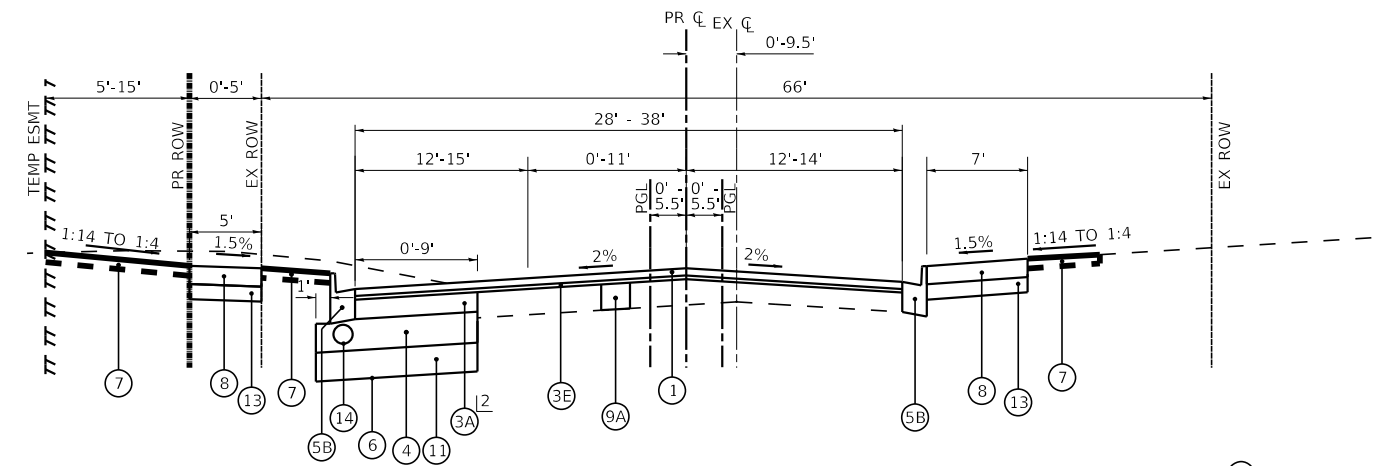


**EXISTING TYPICAL SECTION**  
 IL ROUTE 176 (TERRA COTTA AVENUE)  
 EAST APPROACH AT NORTH MAIN STREET INTERSECTION  
 STA 107+45 TO STA 114+00



**PROPOSED TYPICAL SECTION**  
 IL ROUTE 176 (TERRA COTTA AVENUE)  
 WEST APPROACH AT NORTH MAIN STREET INTERSECTION  
 STA 99+98 TO STA 107+45

1 USE 2B IF < 1 1/2"  
 USE 3E IF > 2 1/4"  
 2 PCC BASE COURSE WIDENING 10" WHEN AREA < 2'



**PROPOSED TYPICAL SECTION**  
 IL ROUTE 176 (TERRA COTTA AVENUE)  
 EAST APPROACH AT NORTH MAIN STREET INTERSECTION  
 STA 107+45 TO STA 114+00

1 USE 2B IF < 1 1/2"  
 USE 3E IF > 2 1/4"

\* AGGREGATE SUBGRADE IMPROVEMENT (ASI) HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSUITABLE OR UNSTABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ASI WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 AND THE UNDERCUT GUIDELINES IN THE IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE MATERIAL IS ENCOUNTERED, THE SOIL SHALL BE REMOVED AND REPLACED WITH ASI OR EMBANKMENT AS DETERMINED BY THE ENGINEER. IF UNSTABLE AND/OR UNSUITABLE MATERIAL IS NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR. A QUANTITY OF REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL SHALL ALSO BE DEDUCTED WITH NO ADDITIONAL COMPENSATION DUE TO THE CONTRACTOR.

**EXISTING LEGEND**

- (A) EXISTING PAVEMENT (9" HMA)
- (AA) EXISTING PAVEMENT (5" TO 6" HMA OVER 5" TO 9" CONCRETE)
- (B) EXISTING AGGREGATE BASE
- (C) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- (D) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- (E) CONCRETE SIDEWALK
- (F) EXISTING GROUND
- (G) DEPRESSED CURB AND GUTTER
- (H) BRICK PAVERS
- (I) HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- (J) SIDEWALK REMOVAL
- (K) NOT USED
- (L) PAVEMENT REMOVAL
- (M) COMBINATION CURB AND GUTTER REMOVAL
- (N) REMOVE BRICK PAVER
- (Hatched) ITEM TO BE REMOVED

**PROPOSED LEGEND**

- (1) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, SMA, 9.5, MIX "F" N80 - 1 3/4"
- (2A) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50 - 3/4"
- (2B) HOT MIX ASPHALT BINDER COURSE, IL-9.5, N70 - VARIABLE DEPTH (1 1/2" - 2 1/4")
- (3A) HOT-MIX ASPHALT BASE COURSE - 10 1/4" (FOR WIDENING >6')
- (3B) HOT-MIX ASPHALT BASE COURSE WIDENING - 10 1/4" (FOR WIDENING ≤6')
- (3C) HOT-MIX ASPHALT BASE COURSE - 8 1/2" (FOR WIDENING >6')
- (3D) HOT-MIX ASPHALT BASE COURSE WIDENING - 8 1/2" (FOR WIDENING ≤6')
- (3E) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 - VARIABLE DEPTH (2 1/4" MIN)
- (4) AGGREGATE SUBGRADE IMPROVEMENT - 12"
- (5A) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- (5B) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- (6) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (AS DETERMINED BY THE ENGINEER)
- (7) TOPSOIL EXCAVATION AND PLACEMENT (6" DEPTH) SODDING, SALT TOLERANT
- (8) PORTLAND CEMENT CONCRETE SIDEWALK 5" (8" AT DRIVEWAYS)
- (9A) CLASS D PATCHES 12" (AS DETERMINED BY THE ENGINEER)
- (9B) CLASS D PATCHES 10" (AS DETERMINED BY THE ENGINEER)
- (10) DEPRESSED CURB AND GUTTER
- (11) AGGREGATE SUBGRADE IMPROVEMENT \*\*
- (12) REINSTALL BRICK PAVER
- (13) AGGREGATE BASE COURSE, TYPE B 4"
- (14) PIPE UNDER DRAIN, TYPE 2 - 4"

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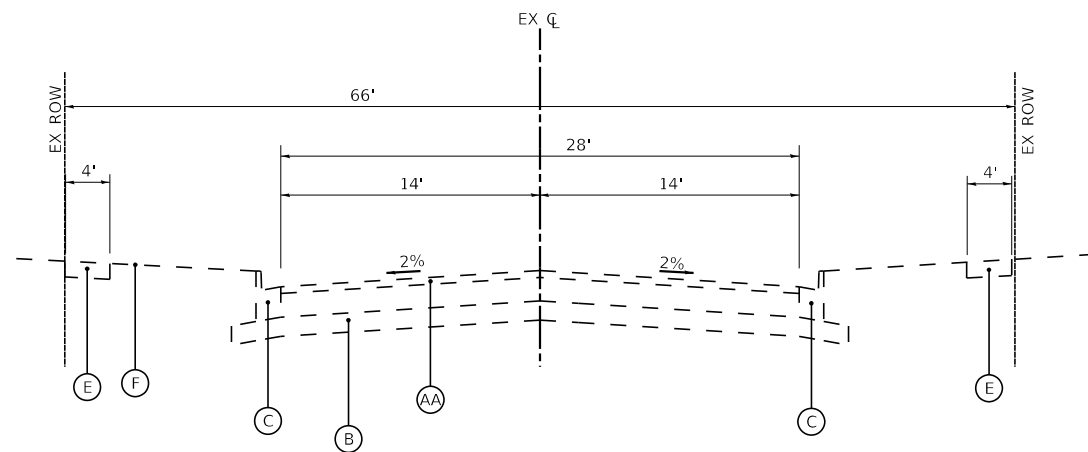
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

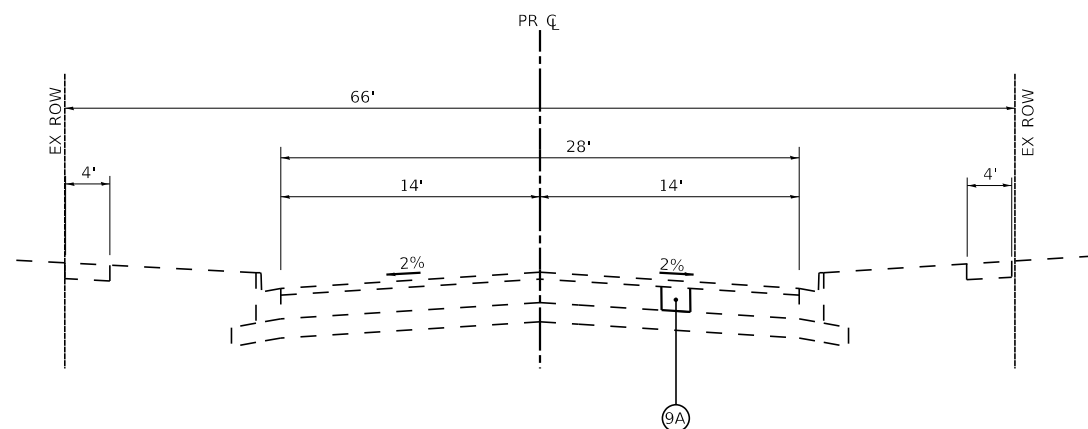
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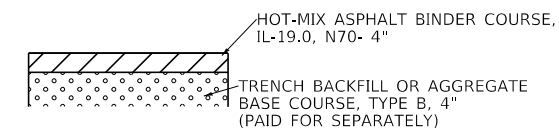
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	15-00124-00-PV	MCHENRY	121	14
CONTRACT NO. 61H27				
ILLINOIS FED. AID PROJECT				



**EXISTING TYPICAL SECTION**  
 IL ROUTE 176 (TERRA COTTA AVENUE)  
 ILLINOIS STREET TO PARK BOULEVARD  
 STA 114+00 TO STA 123+00



**PROPOSED TYPICAL SECTION**  
 IL ROUTE 176 (TERRA COTTA AVENUE)  
 ILLINOIS STREET TO PARK BOULEVARD  
 STA 114+00 TO STA 123+00



**TEMPORARY PAVEMENT**

**EXISTING LEGEND**

- |  |   |
|--|---|
| (A) EXISTING PAVEMENT (9" HMA)                               | (I) HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4" |
| (AA) EXISTING PAVEMENT (5" TO 6" HMA OVER 5" TO 9" CONCRETE) | (J) SIDEWALK REMOVAL                        |
| (B) EXISTING AGGREGATE BASE                                  | (K) NOT USED                                |
| (C) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24        | (L) PAVEMENT REMOVAL                        |
| (D) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12        | (M) COMBINATION CURB AND GUTTER REMOVAL     |
| (E) CONCRETE SIDEWALK  | (N) REMOVE BRICK PAVER                      |
| (F) EXISTING GROUND  | (O) AGGREGATE WEDGE SHOULDERS               |
| (G) DEPRESSED CURB AND GUTTER                                | (Hatched Box) ITEM TO BE REMOVED            |
| (H) BRICK PAVERS   |   |

**PROPOSED LEGEND**

- |  |  |
|--|--|
| (1) POYLMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "F" N80 - 1 3/4"       | (6) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (AS DETERMINED BY THE ENGINEER) |
| (2A) POYLMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50 - 3/4"                | (7) TOPSOIL EXCAVATION AND PLACEMENT (6" DEPTH)<br>SODDING, SALT TOLERANT        |
| (2B) HOT MIX ASPHALT BINDER COURSE, IL-9.5, N70 - VARIABLE DEPTH (1 1/2" - 2 1/4") | (8) PORTLAND CEMENT CONCRETE SIDEWALK 5" (8" AT DRIVEWAYS)                       |
| (3A) HOT-MIX ASPHALT BASE COURSE - 10 1/4" (FOR WIDENING >6')                      | (9A) CLASS D PATCHES 12" (AS DETERMINED BY THE ENGINEER)                         |
| (3B) HOT-MIX ASPHALT BASE COURSE WIDENING - 10 1/4" (FOR WIDENING ≤6')             | (9B) CLASS D PATCHES 10" (AS DETERMINED BY THE ENGINEER)                         |
| (3C) HOT-MIX ASPHALT BASE COURSE - 8 1/2" (FOR WIDENING >6')                       | (10) DEPRESSED CURB AND GUTTER   |
| (3D) HOT-MIX ASPHALT BASE COURSE WIDENING - 8 1/2" (FOR WIDENING ≤6')              | (11) AGGREGATE SUBGRADE IMPROVEMENT **   |
| (3E) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 - VARIABLE DEPTH (2 1/4" MIN)     | (12) REINSTALL BRICK PAVER   |
| (4) AGGREGATE SUBGRADE IMPROVEMENT - 12"   | (13) AGGREGATE BASE COURSE, TYPE B 4"  |
| (5A) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12                             | (14) PIPE UNDER DRAIN, TYPE 2 - 4"   |
| (5B) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24                             |  |

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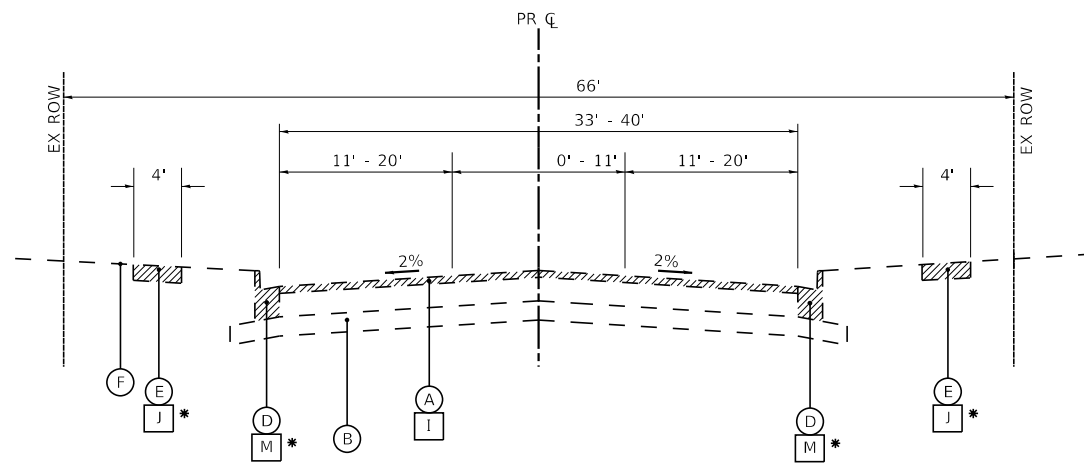
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

**TYPICAL SECTIONS**

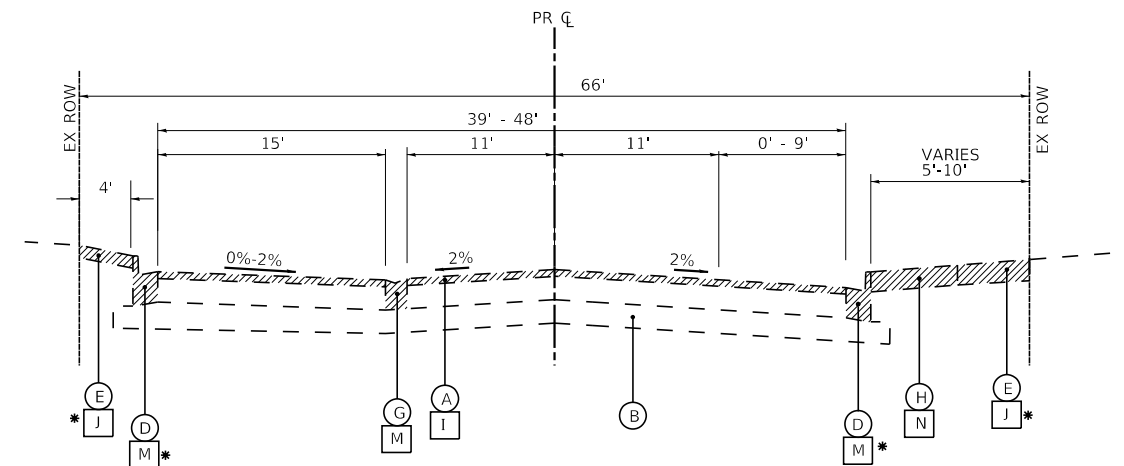
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CONTRACT NO. 61H27				
ILLINOIS FED. AID PROJECT				

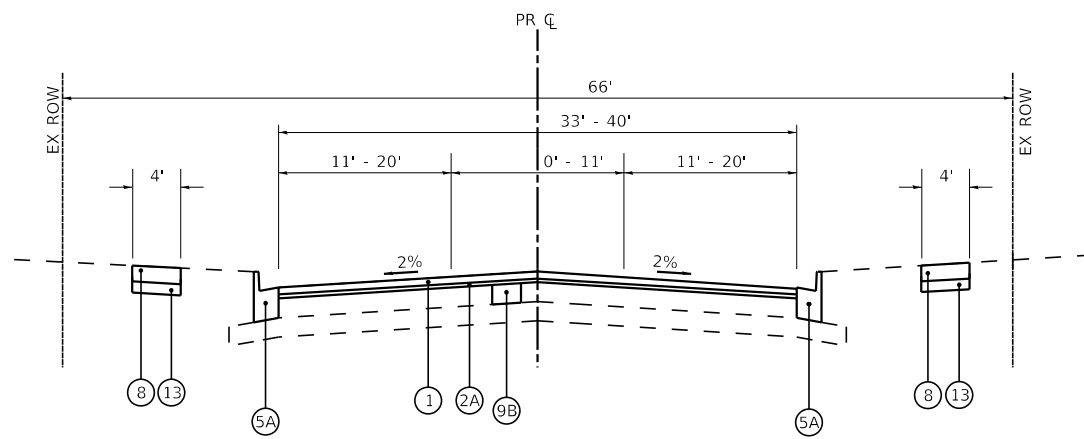


**EXISTING TYPICAL SECTION**  
**MAIN STREET**  
 SOUTH LIMITS TO RAILROAD STREET  
 STA 4+48 TO STA 11+95

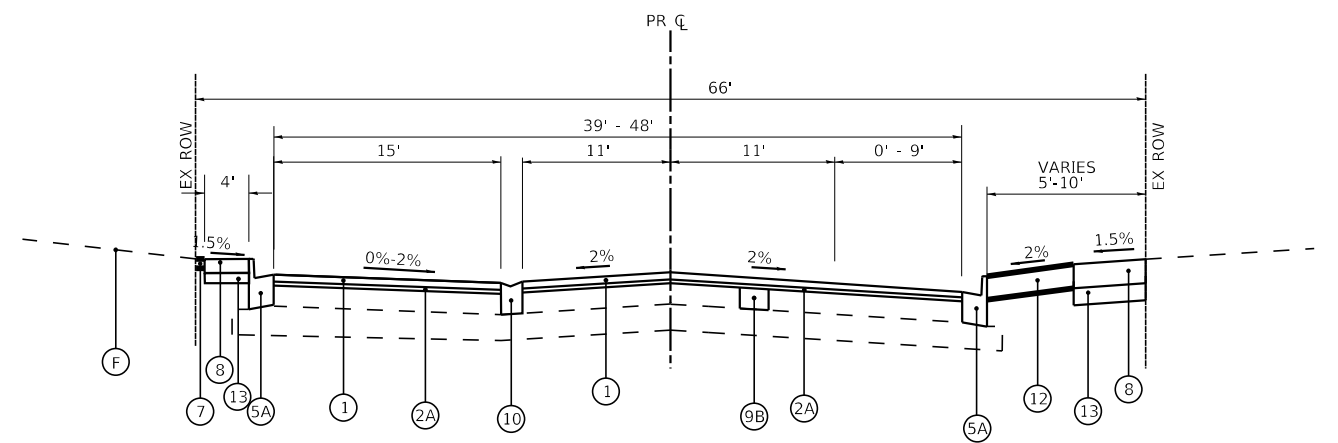
\* AS DETERMINED BY THE ENGINEER



**EXISTING TYPICAL SECTION**  
**MAIN STREET**  
 RAILROAD STREET TO BEARDSLEY STREET  
 STA 11+95 TO STA 13+95



**PROPOSED TYPICAL SECTION**  
**MAIN STREET**  
 SOUTH LIMITS TO RAILROAD STREET  
 STA 4+48 TO STA 11+95



**PROPOSED TYPICAL SECTION**  
**MAIN STREET**  
 RAILROAD STREET TO BEARDSLEY STREET  
 STA 11+95 TO STA 13+95

**EXISTING LEGEND**

- (A) EXISTING PAVEMENT (9" HMA)
- (AA) EXISTING PAVEMENT (5" TO 6" HMA OVER 5" TO 9" CONCRETE)
- (B) EXISTING AGGREGATE BASE
- (C) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- (D) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- (E) CONCRETE SIDEWALK
- (F) EXISTING GROUND
- (G) DEPRESSED CURB AND GUTTER
- (H) BRICK PAVERS

- (I) HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"
- (J) SIDEWALK REMOVAL
- (K) NOT USED
- (L) PAVEMENT REMOVAL
- (M) COMBINATION CURB AND GUTTER REMOVAL
- (N) REMOVE BRICK PAVER
- (Hatched) ITEM TO BE REMOVED

**PROPOSED LEGEND**

- (1) HOT-MIX ASPHALT SURFACE COURSE, MIX "D" N70 - 1 1/2"
- (2A) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50 - 3/4"
- (2B) HOT MIX ASPHALT BINDER COURSE, IL-9.5, N70 - VARIABLE DEPTH (1 1/2" - 2 1/4")
- (3A) HOT-MIX ASPHALT BASE COURSE - 10 1/4" (FOR WIDENING >6')
- (3B) HOT-MIX ASPHALT BASE COURSE WIDENING - 10 1/4" (FOR WIDENING ≤6')
- (3C) HOT-MIX ASPHALT BASE COURSE - 8 1/2" (FOR WIDENING >6')
- (3D) HOT-MIX ASPHALT BASE COURSE WIDENING - 8 1/2" (FOR WIDENING ≤6')
- (3E) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 - VARIABLE DEPTH (2 1/4" MIN)
- (4) AGGREGATE SUBGRADE IMPROVEMENT - 12"
- (5A) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- (5B) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24

- (6) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (AS DETERMINED BY THE ENGINEER)
- (7) TOPSOIL EXCAVATION AND PLACEMENT (6" DEPTH) SODDING, SALT TOLERANT
- (8) PORTLAND CEMENT CONCRETE SIDEWALK 5" (8" AT DRIVEWAYS)
- (9A) CLASS D PATCHES 12" (AS DETERMINED BY THE ENGINEER)
- (9B) CLASS D PATCHES 10" (AS DETERMINED BY THE ENGINEER)
- (10) DEPRESSED CURB AND GUTTER
- (11) AGGREGATE SUBGRADE IMPROVEMENT \*\*
- (12) REINSTALL BRICK PAVER
- (13) AGGREGATE BASE COURSE, TYPE B 4"
- (14) PIPE UNDER DRAIN, TYPE 2 - 4"

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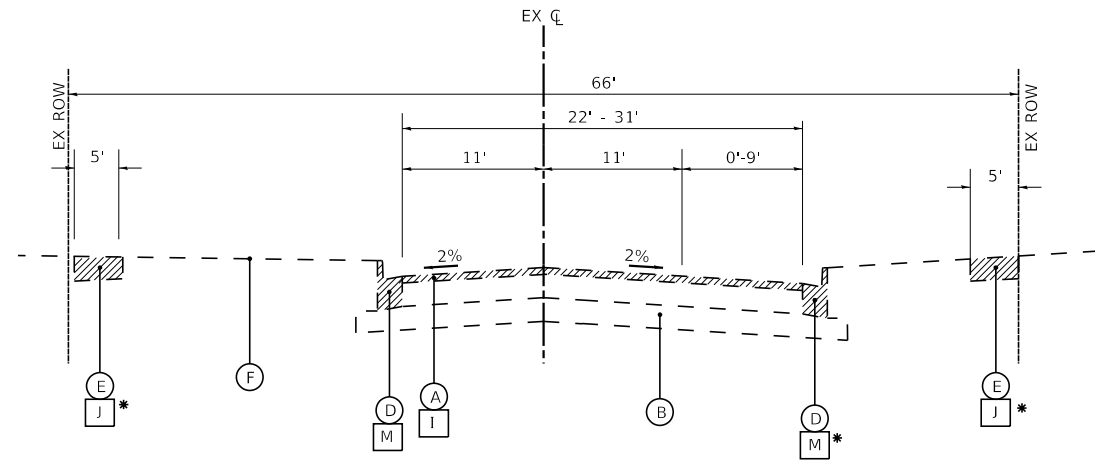
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

**TYPICAL SECTIONS**

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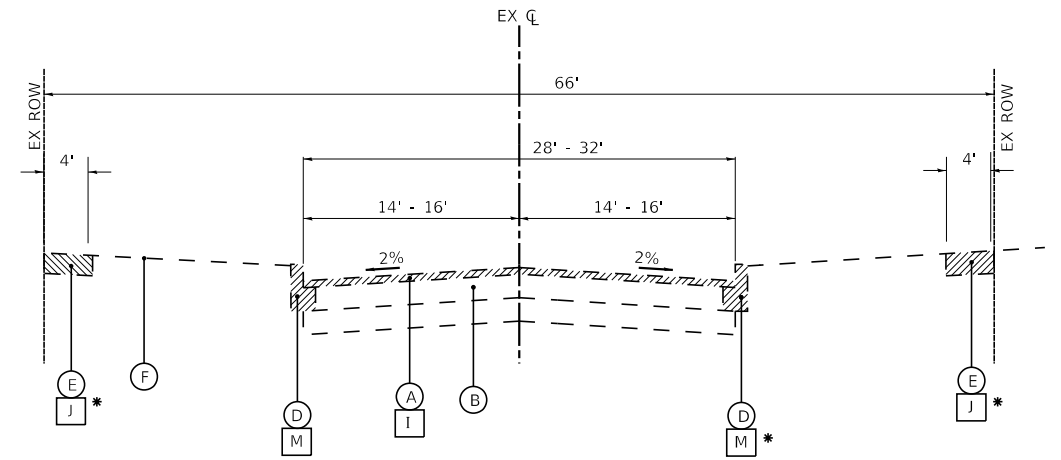
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CONTRACT NO. 61H27			ILLINOIS FED. AID PROJECT	



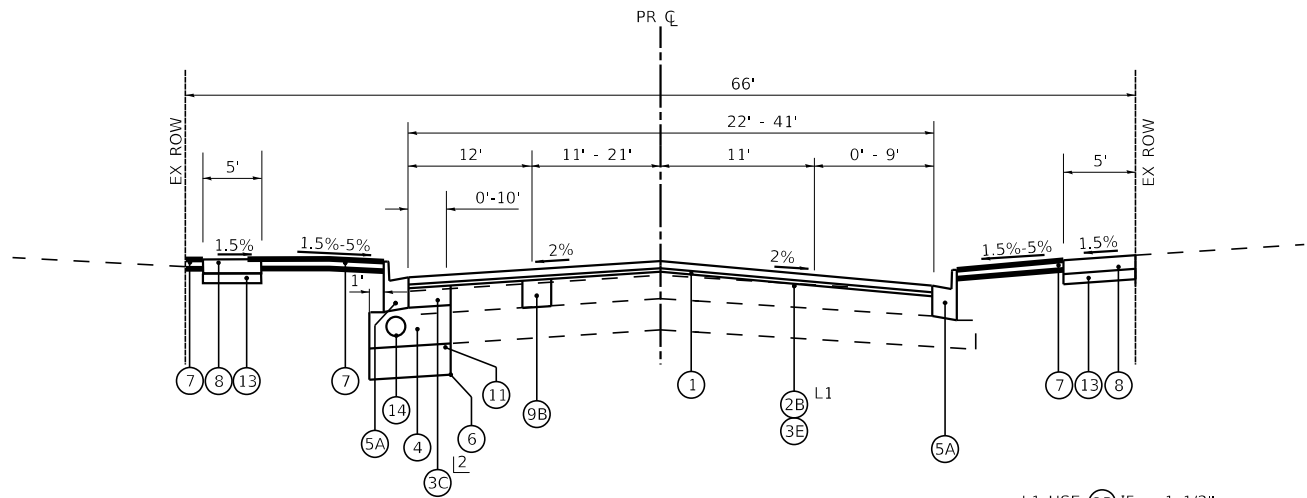


**EXISTING TYPICAL SECTION**  
**MAIN STREET**  
**BEARDSLEY STREET TO PRAIRIE STREET**  
 STA 13+95 TO STA 17+55

\* AS DETERMINED BY THE ENGINEER

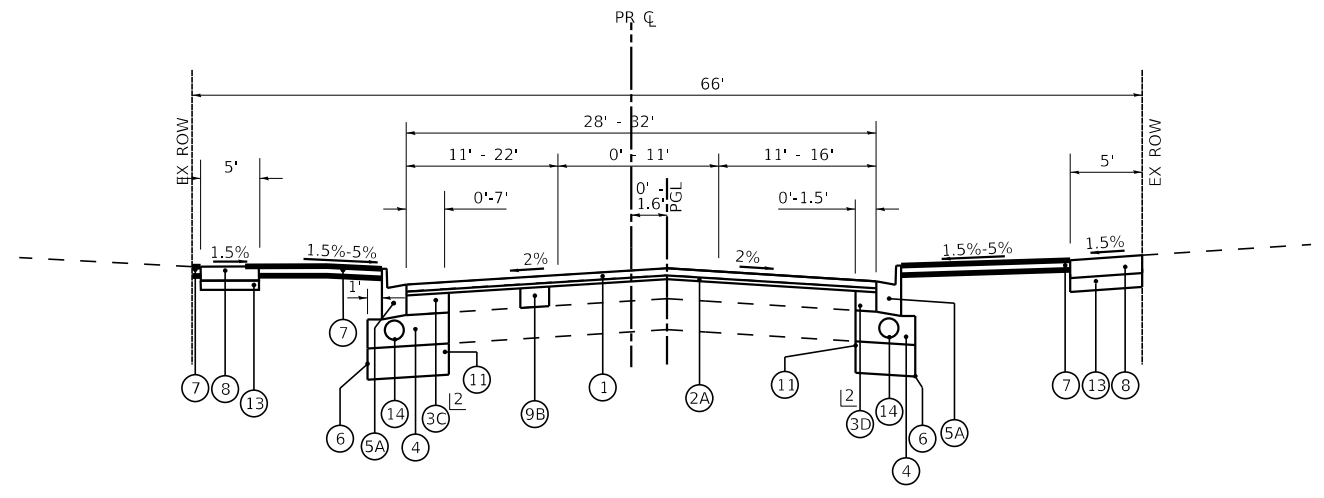


**EXISTING TYPICAL SECTION**  
**MAIN STREET**  
**PRAIRIE STREET TO IL 176**  
 STA 17+55 TO STA 27+85



**PROPOSED TYPICAL SECTION**  
**MAIN STREET**  
**BEARDSLEY STREET TO PRAIRIE STREET**  
 STA 13+95 TO STA 17+55

L1 USE (2B) IF < 1 1/2"  
 USE (3E) IF > 2 1/4"



**PROPOSED TYPICAL SECTION**  
**MAIN STREET**  
**PRAIRIE STREET TO IL 176**  
 STA 17+55 TO STA 27+85

**EXISTING LEGEND**

- (A) EXISTING PAVEMENT (9" HMA)
- (AA) EXISTING PAVEMENT (5" TO 6" HMA OVER 5" TO 9" CONCRETE)
- (B) EXISTING AGGREGATE BASE
- (C) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- (D) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- (E) CONCRETE SIDEWALK
- (F) EXISTING GROUND
- (G) DEPRESSED CURB AND GUTTER
- (H) BRICK PAVERS
- (I) HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"
- (J) SIDEWALK REMOVAL
- (K) NOT USED
- (L) PAVEMENT REMOVAL
- (M) COMBINATION CURB AND GUTTER REMOVAL
- (N) REMOVE BRICK PAVER
- (Hatched) ITEM TO BE REMOVED

**PROPOSED LEGEND**

- (1) HOT-MIX ASPHALT SURFACE COURSE, MIX "D" N70 - 1 1/2"
- (2A) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50 - 3/4"
- (2B) HOT MIX ASPHALT BINDER COURSE, IL-9.5, N70 - VARIABLE DEPTH (1 1/2" - 2 1/4")
- (3A) HOT-MIX ASPHALT BASE COURSE - 10 1/4" (FOR WIDENING >6')
- (3B) HOT-MIX ASPHALT BASE COURSE WIDENING - 10 1/4" (FOR WIDENING ≤6')
- (3C) HOT-MIX ASPHALT BASE COURSE - 8 1/2" (FOR WIDENING >6')
- (3D) HOT-MIX ASPHALT BASE COURSE WIDENING - 8 1/2" (FOR WIDENING ≤6')
- (3E) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 - VARIABLE DEPTH (2 1/4" MIN)
- (4) AGGREGATE SUBGRADE IMPROVEMENT - 12"
- (5A) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- (5B) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- (6) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (AS DETERMINED BY THE ENGINEER)
- (7) TOPSOIL EXCAVATION AND PLACEMENT (6" DEPTH) SODDING, SALT TOLERANT
- (8) PORTLAND CEMENT CONCRETE SIDEWALK 5" (8" AT DRIVEWAYS)
- (9A) CLASS D PATCHES 12" (AS DETERMINED BY THE ENGINEER)
- (9B) CLASS D PATCHES 10" (AS DETERMINED BY THE ENGINEER)
- (10) DEPRESSED CURB AND GUTTER
- (11) AGGREGATE SUBGRADE IMPROVEMENT \*\*
- (12) REINSTALL BRICK PAVER
- (13) AGGREGATE BASE COURSE, TYPE B 4"
- (14) PIPE UNDER DRAIN, TYPE 2 - 4"

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM  
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USER NAME = asramek	DESIGNED - DJS	REVISED -
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PLOT DATE = 8/27/2021	CHECKED - AKS	REVISED -
	DATE - 08-26-2021	FILE - 181171_ss2-sht-TypSec.dgn

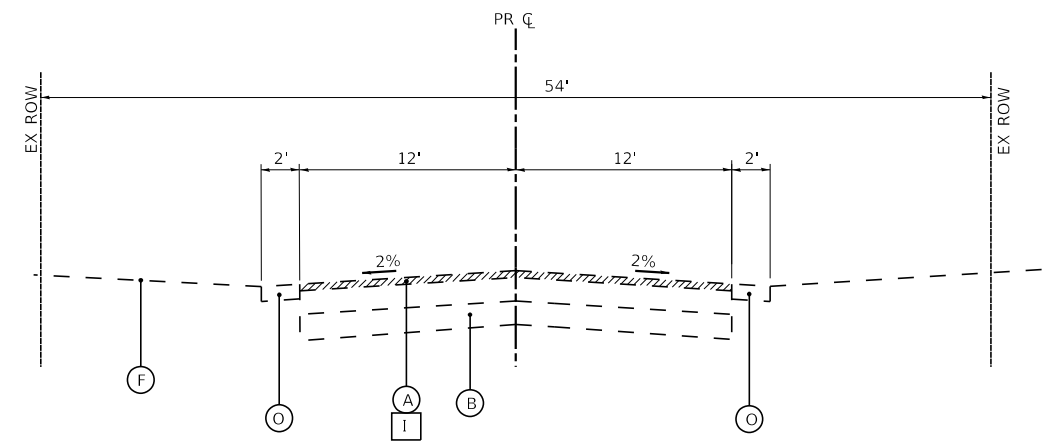
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SCALE: NONE	SHEET 4 OF 5 SHEETS	STA. TO STA.
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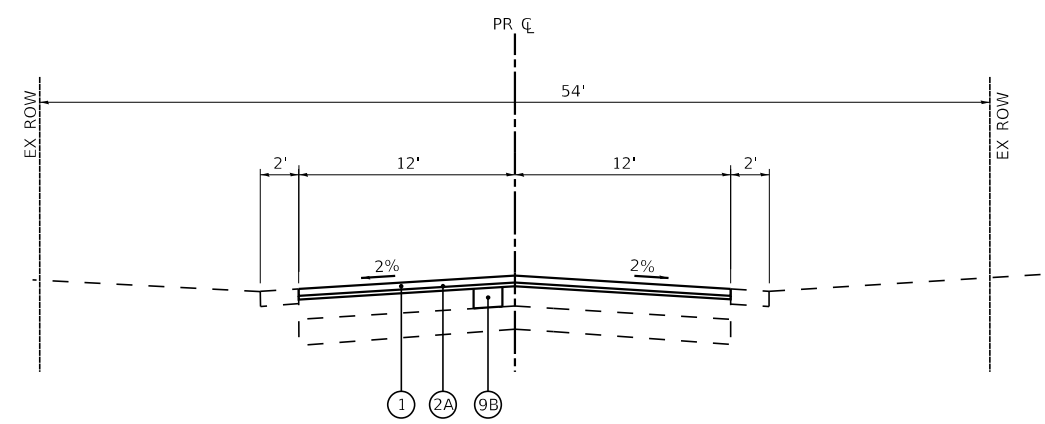
**TYPICAL SECTIONS**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	15-00124-00-PV	MCHENRY	121	17
			CONTRACT NO. 61H27	
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM  
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**EXISTING TYPICAL SECTION**  
 MAIN STREET  
 IL 176 TO PROJECT LIMITS  
 STA 30+55 TO STA 31+20



**PROPOSED TYPICAL SECTION**  
 MAIN STREET  
 IL 176 TO PROJECT LIMITS  
 STA 30+55 TO STA 31+20

**EXISTING LEGEND**

- (A) EXISTING PAVEMENT (9" HMA)
- (AA) EXISTING PAVEMENT (5" TO 6" HMA OVER 5" TO 9" CONCRETE)
- (B) EXISTING AGGREGATE BASE
- (C) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- (D) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- (E) CONCRETE SIDEWALK
- (F) EXISTING GROUND
- (G) DEPRESSED CURB AND GUTTER
- (H) BRICK PAVERS

- (I) HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"
- (J) SIDEWALK REMOVAL
- (K) NOT USED
- (L) PAVEMENT REMOVAL
- (M) COMBINATION CURB AND GUTTER REMOVAL
- (N) REMOVE BRICK PAVER
- (O) AGGREGATE WEDGE SHOULDERS
- (Hatched Box) ITEM TO BE REMOVED

**PROPOSED LEGEND**

- (1) HOT-MIX ASPHALT SURFACE COURSE, MIX "D" N70 - 1 1/2"
- (2A) POYLMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50 - 3/4"
- (2B) HOT MIX ASPHALT BINDER COURSE, IL-9.5, N70 - VARIABLE DEPTH (1 1/2" - 2 1/4")
- (3A) HOT-MIX ASPHALT BASE COURSE - 10 1/4" (FOR WIDENING >6')
- (3B) HOT-MIX ASPHALT BASE COURSE WIDENING - 10 1/4" (FOR WIDENING ≤6')
- (3C) HOT-MIX ASPHALT BASE COURSE - 8 1/2" (FOR WIDENING >6')
- (3D) HOT-MIX ASPHALT BASE COURSE WIDENING - 8 1/2" (FOR WIDENING ≤6')
- (3E) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 - VARIABLE DEPTH (2 1/4" MIN)
- (4) AGGREGATE SUBGRADE IMPROVEMENT - 12"
- (5A) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- (5B) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24

- (6) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (AS DETERMINED BY THE ENGINEER)
- (7) TOPSOIL EXCAVATION AND PLACEMENT (6" DEPTH) SODDING, SALT TOLERANT
- (8) PORTLAND CEMENT CONCRETE SIDEWALK 5" (8" AT DRIVEWAYS)
- (9A) CLASS D PATCHES 12" (AS DETERMINED BY THE ENGINEER)
- (9B) CLASS D PATCHES 10" (AS DETERMINED BY THE ENGINEER)
- (10) DEPRESSED CURB AND GUTTER
- (11) AGGREGATE SUBGRADE IMPROVEMENT \*\*
- (12) REINSTALL BRICK PAVER
- (13) AGGREGATE BASE COURSE, TYPE B 4"
- (14) PIPE UNDER DRAIN, TYPE 2 - 4"

**HOT-MIX ASPHALT MIXTURE REQUIREMENTS**

CONTRACTOR SHALL MILL BEFORE PATCHING

MIXTURE TYPE	AIR VOIDS @ Ndes
<b>PAVEMENT RESURFACING - IL ROUTE 176 (TERRA COTTA AVENUE)</b>	
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, SMA, 9.5, MIX "F", N80: 1-3/4"	3.5% @80 GYR.
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50: 3/4"	3.5% @50 GYR.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70: VARIABLE DEPTH (2 1/4" MIN.)	4% @70 GYR.
<b>PAVEMENT RESURFACING - MAIN STREET</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70: 1-1/2"	4% @70 GYR.
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50: 3/4"	3.5% @50 GYR.
HOT-MIX ASPHALT BINDER COURSE, IL 9.5, N70: VARIABLE DEPTH (1 1/2" TO 2 1/4")	4% @70 GYR.
<b>PAVEMENT WIDENING - IL ROUTE 176 (TERRA COTTA AVENUE)</b>	
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, SMA, 9.5, MIX "F", N80: 1-3/4"	3.5% @80 GYR.
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50: 3/4"	3.5% @50 GYR.
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19.0), 10 1/4" (FOR WIDENING >6')	4% @70 GYR.
HOT-MIX ASPHALT BASE COURSE WIDENING (HMA BINDER IL-19.0), 10 1/4" (FOR WIDENING ≤6')	4% @70 GYR.
<b>PAVEMENT WIDENING- MAIN STREET</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70: 1-1/2"	4% @70 GYR.
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50: 3/4"	3.5% @50 GYR.
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19.0), 8 1/2" (FOR WIDENING >6')	4% @70 GYR.
HOT-MIX ASPHALT BASE COURSE WIDENING (HMA BINDER IL-19.0), 8 1/2" (FOR WIDENING <6')	4% @70 GYR.
<b>HMA DRIVEWAY PAVEMENT 8" PE ( 10" CE)</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm): 1-1/2"	4% @ 50 Gyr.
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19mm)	4% @ 50 Gyr.
<b>PATCHING- IL ROUTE 176 (TERRA COTTA AVENUE)</b>	
CLASS D PATCHES (HMA BINDER IL-19 mm) - 12"	4% @ 70 Gyr.
<b>PATCHING- MAIN STREET</b>	
CLASS D PATCHES (HMA BINDER IL-19 mm) - 10"	4% @ 70 Gyr.
<b>TEMPORARY PAVEMENT</b>	
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70: 4"	4% @ 70 Gyr.

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" UNLESS MODIFIED BY SPECIAL PROVISIONS.

THE "AC TYPE" FOR NON-POLYMERIZED HMA SHALL BE "PG 64-22" ON US ROUTE 14 AND "PG 58-28" ON MAIN STREET, UNLESS MODIFIED BY SPECIAL PROVISIONS.

FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

\* AGGREGATE SUBGRADE IMPROVEMENT (ASI) HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSUITABLE OR UNSTABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ASI WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 AND THE UNDERCUT GUIDELINES IN THE IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE MATERIAL IS ENCOUNTERED, THE SOIL SHALL BE REMOVED AND REPLACED WITH ASI OR EMBANKMENT AS DETERMINED BY THE ENGINEER. IF UNSTABLE AND/OR UNSUITABLE MATERIAL IS NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR. A QUANTITY OF REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL SHALL ALSO BE DEDUCTED WITH NO ADDITIONAL COMPENSATION DUE TO THE CONTRACTOR.



USER NAME = asramek	DESIGNED - DJS	REVISED -
PLOT SCALE = 40,0000' / in.	DRAWN - KAR	REVISED -
PLOT DATE = 8/27/2021	CHECKED - AKS	REVISED -
	DATE - 08-26-2021	FILE - 181171_ss2-sht-TypSec.dgn

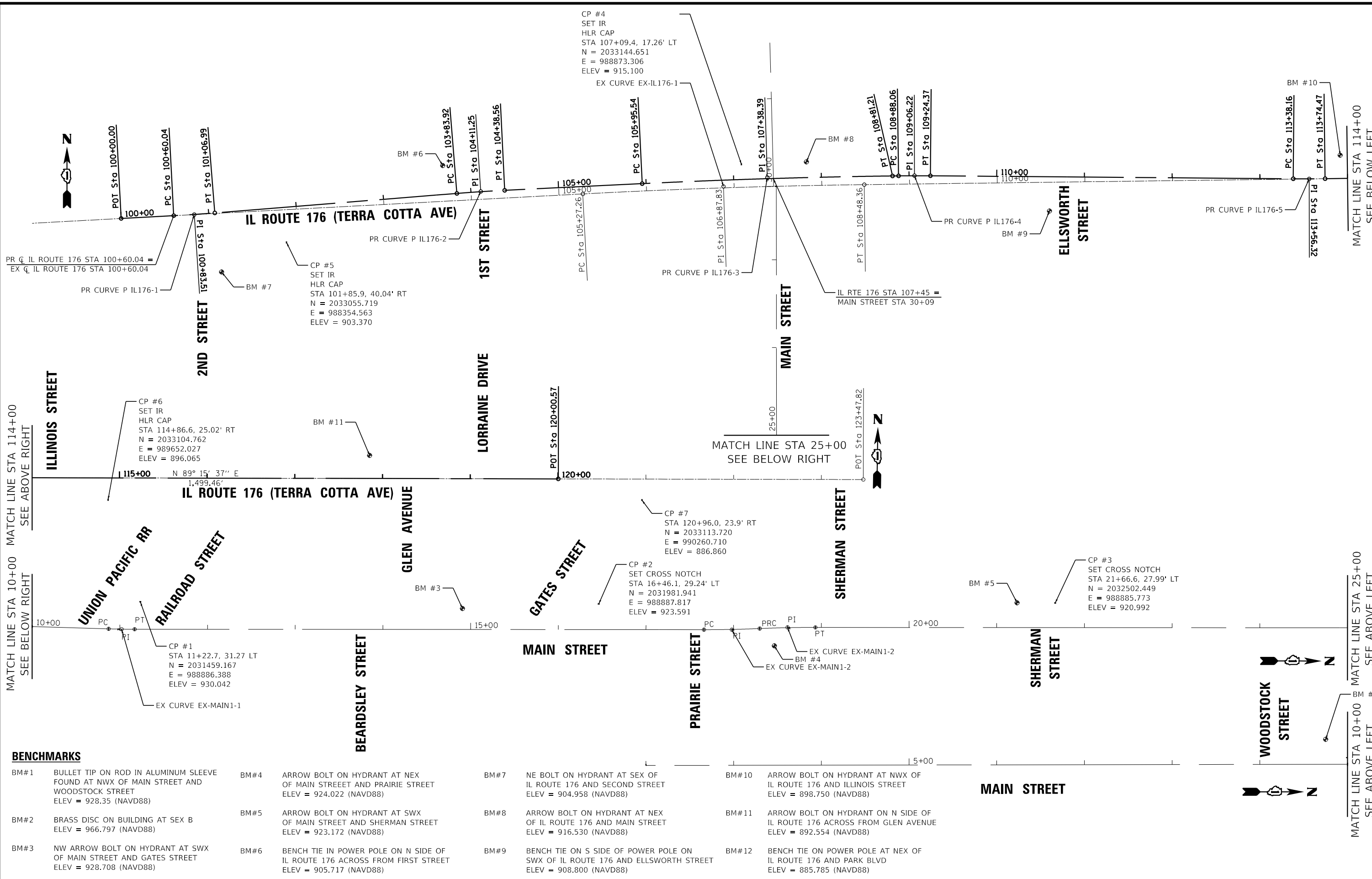
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

**TYPICAL SECTIONS**

SCALE: NONE SHEET 5 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	15-00124-00-PV	MCHENRY	121	18
CONTRACT NO. 61H27				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM  
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**BENCHMARKS**

BM#1	BULLET TIP ON ROD IN ALUMINUM SLEEVE FOUND AT NWX OF MAIN STREET AND WOODSTOCK STREET ELEV = 928.35 (NAVD88)	BM#4	ARROW BOLT ON HYDRANT AT NEX OF MAIN STREET AND PRAIRIE STREET ELEV = 924.022 (NAVD88)	BM#7	NE BOLT ON HYDRANT AT SEX OF IL ROUTE 176 AND SECOND STREET ELEV = 904.958 (NAVD88)	BM#10	ARROW BOLT ON HYDRANT AT NWX OF IL ROUTE 176 AND ILLINOIS STREET ELEV = 898.750 (NAVD88)
BM#2	BRASS DISC ON BUILDING AT SEX B ELEV = 966.797 (NAVD88)	BM#5	ARROW BOLT ON HYDRANT AT SWX OF MAIN STREET AND SHERMAN STREET ELEV = 923.172 (NAVD88)	BM#8	ARROW BOLT ON HYDRANT AT NEX OF IL ROUTE 176 AND MAIN STREET ELEV = 916.530 (NAVD88)	BM#11	ARROW BOLT ON HYDRANT ON N SIDE OF IL ROUTE 176 ACROSS FROM GLEN AVENUE ELEV = 892.554 (NAVD88)
BM#3	NW ARROW BOLT ON HYDRANT AT SWX OF MAIN STREET AND GATES STREET ELEV = 928.708 (NAVD88)	BM#6	BENCH TIE IN POWER POLE ON N SIDE OF IL ROUTE 176 ACROSS FROM FIRST STREET ELEV = 905.717 (NAVD88)	BM#9	BENCH TIE ON S SIDE OF POWER POLE ON SWX OF IL ROUTE 176 AND ELLSWORTH STREET ELEV = 908.800 (NAVD88)	BM#12	BENCH TIE ON POWER POLE AT NEX OF IL ROUTE 176 AND PARK BLVD ELEV = 885.785 (NAVD88)

<b>BAXTER &amp; WOODMAN</b> Consulting Engineers	USER NAME = asramek	DESIGNED - DJS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ALIGNMENT, CONTROL POINTS AND BENCHMARKS			F.A.P. RTE. = 335	SECTION = 15-00124-00-PV	COUNTY = MCHENRY	TOTAL SHEETS = 121	SHEET NO. = 19
	PLOT SCALE = 100.0000' / in.	CHECKED - AKS	REVISED -		SCALE: 1" = 50'	SHEET 1 OF 2 SHEETS	STA. TO STA.	CONTRACT NO. 61H27				
	PLOT DATE = 8/27/2021	DATE = 08-26-2021	FILE = 181171_ss2-sht-Align.dgn					ILLINOIS FED. AID PROJECT				

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Chain P 176 contains:  
 P176 CUR P 176-1 CUR P 176-2 CUR P 176-3 CUR P 176-4 CUR P 176-5 P177

Beginning chain P 176 description  
 =====

Point P176 N 2,033,083.00 E 988,166.01 Sta 100+00

Course from P176 to PC P 176-1 N 86° 57' 38" E Dist 60.04

Curve Data  
 \*-----\*

Curve P 176-1  
 P.I. Station 100+84 N 2,033,087.43 E 988,249.41  
 Delta = 1° 33' 50" (LT)  
 Degree = 3° 19' 52"  
 Tangent = 23.48  
 Length = 46.95  
 Radius = 1,720.00  
 External = 0.16  
 Long Chord = 46.95  
 Mid. Ord. = 0.16  
 P.C. Station 100+60 N 2,033,086.18 E 988,225.96  
 P.T. Station 101+07 N 2,033,089.31 E 988,272.81  
 C.C. N 2,034,803.76 E 988,134.76  
 Back = N 86° 57' 38" E  
 Ahead = N 85° 23' 47" E  
 Chord Bear = N 86° 10' 43" E

Course from PT P 176-1 to PC P 176-2 N 85° 23' 47" E Dist 276.94

Curve Data  
 \*-----\*

Curve P 176-2  
 P.I. Station 104+11 N 2,033,113.73 E 988,576.08  
 Delta = 1° 49' 13" (RT)  
 Degree = 3° 19' 52"  
 Tangent = 27.32  
 Length = 54.64  
 Radius = 1,720.00  
 External = 0.22  
 Long Chord = 54.64  
 Mid. Ord. = 0.22  
 P.C. Station 103+84 N 2,033,111.54 E 988,548.85  
 P.T. Station 104+39 N 2,033,115.06 E 988,603.37  
 C.C. N 2,031,397.09 E 988,686.89  
 Back = N 85° 23' 47" E  
 Ahead = N 87° 13' 00" E  
 Chord Bear = N 86° 18' 24" E

Course from PT P 176-2 to PC P 176-3 N 87° 13' 00" E Dist 156.98

Curve Data  
 \*-----\*

Curve P 176-3  
 P.I. Station 107+38 N 2,033,129.62 E 988,902.85  
 Delta = 2° 02' 37" (RT)  
 Degree = 0° 42' 55"  
 Tangent = 142.85  
 Length = 285.66  
 Radius = 8,009.50  
 External = 1.27  
 Long Chord = 285.65  
 Mid. Ord. = 1.27  
 P.C. Station 105+96 N 2,033,122.68 E 988,760.17  
 P.T. Station 108+81 N 2,033,131.46 E 989,045.68  
 C.C. N 2,025,122.63 E 989,149.10  
 Back = N 87° 13' 00" E  
 Ahead = N 89° 15' 37" E  
 Chord Bear = N 88° 14' 18" E

Course from PT P 176-3 to PC P 176-4 N 89° 15' 37" E Dist 6.86

Curve Data  
 \*-----\*

Curve P 176-4  
 P.I. Station 109+06 N 2,033,131.78 E 989,070.69  
 Delta = 1° 12' 34" (RT)  
 Degree = 3° 19' 52"  
 Tangent = 18.15  
 Length = 36.31  
 Radius = 1,720.00  
 External = 0.10  
 Long Chord = 36.31  
 Mid. Ord. = 0.10  
 P.C. Station 108+88 N 2,033,131.55 E 989,052.54  
 P.T. Station 109+24 N 2,033,131.63 E 989,088.84  
 C.C. N 2,031,411.69 E 989,074.75  
 Back = N 89° 15' 37" E  
 Ahead = S 89° 31' 50" E  
 Chord Bear = N 89° 51' 54" E

Course from PT P 176-4 to PC P 176-5 S 89° 31' 50" E Dist 413.79

Curve Data  
 \*-----\*

Curve P 176-5  
 P.I. Station 113+56 N 2,033,128.09 E 989,520.78  
 Delta = 1° 12' 34" (LT)  
 Degree = 3° 19' 52"  
 Tangent = 18.15  
 Length = 36.31  
 Radius = 1,720.00  
 External = 0.10  
 Long Chord = 36.31  
 Mid. Ord. = 0.10  
 P.C. Station 113+38 N 2,033,128.24 E 989,502.62  
 P.T. Station 113+74 N 2,033,128.33 E 989,538.93  
 C.C. N 2,034,848.19 E 989,516.72  
 Back = S 89° 31' 50" E  
 Ahead = N 89° 15' 37" E  
 Chord Bear = N 89° 51' 54" E

Course from PT P 176-5 to P177 N 89° 15' 37" E Dist 626.10

Point P177 N 2,033,136.41 E 990,164.98 Sta 120+01

Ending chain P 176 description  
 =====

Chain EX-IL176 contains:  
 IL1 CUR EX-IL176-1 IL2

Beginning chain EX-IL176 description  
 =====

Point IL1 N 2,033,083.00 E 988,166.01 Sta 100+00

Course from IL1 to PC EX-IL176-1 N 86° 57' 38" E Dist 527.26

Curve Data  
 \*-----\*

Curve EX-IL176-1  
 P.I. Station 106+88 N 2,033,119.47 E 988,852.87  
 Delta = 2° 17' 59" (RT)  
 Degree = 0° 42' 58"  
 Tangent = 160.57  
 Length = 321.10  
 Radius = 8,000.00  
 External = 1.61  
 Long Chord = 321.08  
 Mid. Ord. = 1.61  
 P.C. Station 105+27 N 2,033,110.96 E 988,692.52  
 P.T. Station 108+48 N 2,033,121.54 E 989,013.43  
 C.C. N 2,025,122.21 E 989,116.72  
 Back = N 86° 57' 38" E  
 Ahead = N 89° 15' 37" E  
 Chord Bear = N 88° 06' 37" E

Course from PT EX-IL176-1 to IL2 N 89° 15' 37" E Dist 1,499.46

Point IL2 N 2,033,140.90 E 990,512.76 Sta 123+48

Ending chain EX-IL176 description  
 =====

Chain EX-MAIN2 contains:  
 MAIN3 MAIN4

Beginning chain EX-MAIN2 description  
 =====

Point MAIN3 N 2,033,119.54 E 988,910.03 Sta 30+00

Course from MAIN3 to MAIN4 N 1° 28' 50" W Dist 163.85

Point MAIN4 N 2,033,283.34 E 988,905.79 Sta 31+64

Ending chain EX-MAIN2 description  
 =====

Chain EX-MAIN1 contains:  
 MAIN1 CUR EX-MAIN1-1 CUR EX-MAIN1-2 CUR EX-MAIN1-3 MAIN2

Beginning chain EX-MAIN1 description  
 =====

Point MAIN1 N 2,031,335.93 E 988,914.79 Sta 10+00

Course from MAIN1 to PC EX-MAIN1-1 N 1° 37' 53" E Dist 87.23

Curve Data  
 \*-----\*

Curve EX-MAIN1-1  
 P.I. Station 11+02 N 2,031,437.93 E 988,917.69  
 Delta = 1° 41' 51" (LT)  
 Degree = 5° 43' 46"  
 Tangent = 14.82  
 Length = 29.63  
 Radius = 1,000.00  
 External = 0.11  
 Long Chord = 29.63  
 Mid. Ord. = 0.11  
 P.C. Station 10+87 N 2,031,423.13 E 988,917.27  
 P.T. Station 11+17 N 2,031,452.75 E 988,917.67  
 C.C. N 2,031,451.59 E 987,917.67  
 Back = N 1° 37' 53" E  
 Ahead = N 0° 03' 59" W  
 Chord Bear = N 0° 46' 57" E

Course from PT EX-MAIN1-1 to PC EX-MAIN1-2 N 0° 03' 59" W Dist 649.22

Curve Data  
 \*-----\*

Curve EX-MAIN1-2  
 P.I. Station 17+98 N 2,032,133.76 E 988,916.89  
 Delta = 2° 25' 42" (LT)  
 Degree = 3° 49' 11"  
 Tangent = 31.79  
 Length = 63.57  
 Radius = 1,500.00  
 External = 0.34  
 Long Chord = 63.57  
 Mid. Ord. = 0.34  
 P.C. Station 17+66 N 2,032,101.97 E 988,916.92  
 P.T. Station 18+30 N 2,032,165.52 E 988,915.50  
 C.C. N 2,032,100.24 E 987,416.92  
 Back = N 0° 03' 59" W  
 Ahead = N 2° 29' 40" W  
 Chord Bear = N 1° 16' 49" W

Course from PT EX-MAIN1-2 to PC EX-MAIN1-3 N 0° 03' 59" W Dist 890.54

Curve Data  
 \*-----\*

Curve EX-MAIN1-3  
 P.I. Station 18+61 N 2,032,197.28 E 988,914.12  
 Delta = 2° 25' 42" (RT)  
 Degree = 3° 49' 11"  
 Tangent = 31.79  
 Length = 63.57  
 Radius = 1,500.00  
 External = 0.34  
 Long Chord = 63.57  
 Mid. Ord. = 0.34  
 P.C. Station 18+30 N 2,032,165.52 E 988,915.50  
 P.T. Station 18+93 N 2,032,229.07 E 988,914.08  
 C.C. N 2,032,230.81 E 990,414.08  
 Back = N 2° 29' 40" W  
 Ahead = N 0° 03' 59" W  
 Chord Bear = N 1° 16' 49" W

Course from PT EX-MAIN1-3 to MAIN2 N 0° 03' 59" W Dist 890.54

Point MAIN2 N 2,033,119.62 E 988,913.05 Sta 27+84

Ending chain EX-MAIN1 description  
 =====



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	DRAWN - KAR	REVISED -
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PLOT DATE = 8/27/2021	DATE - 08-26-2021	FILE - 181171_ss2-sht-Align.dgn



STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ALIGNMENT, CONTROL POINTS AND BENCHMARKS	
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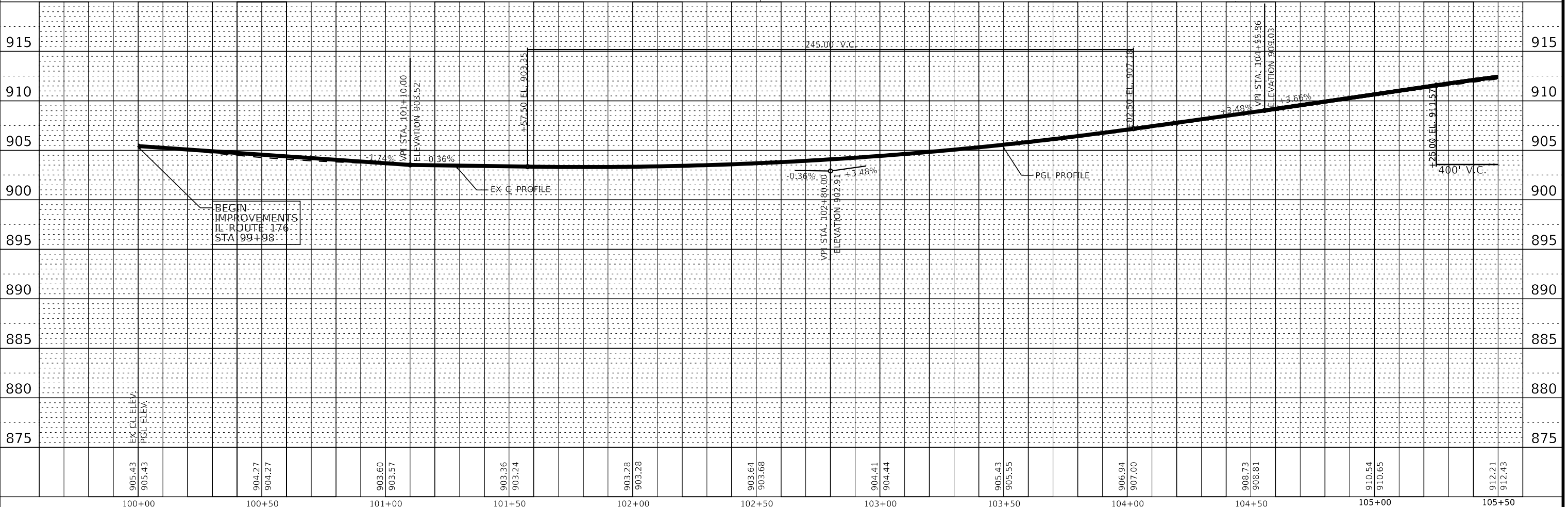
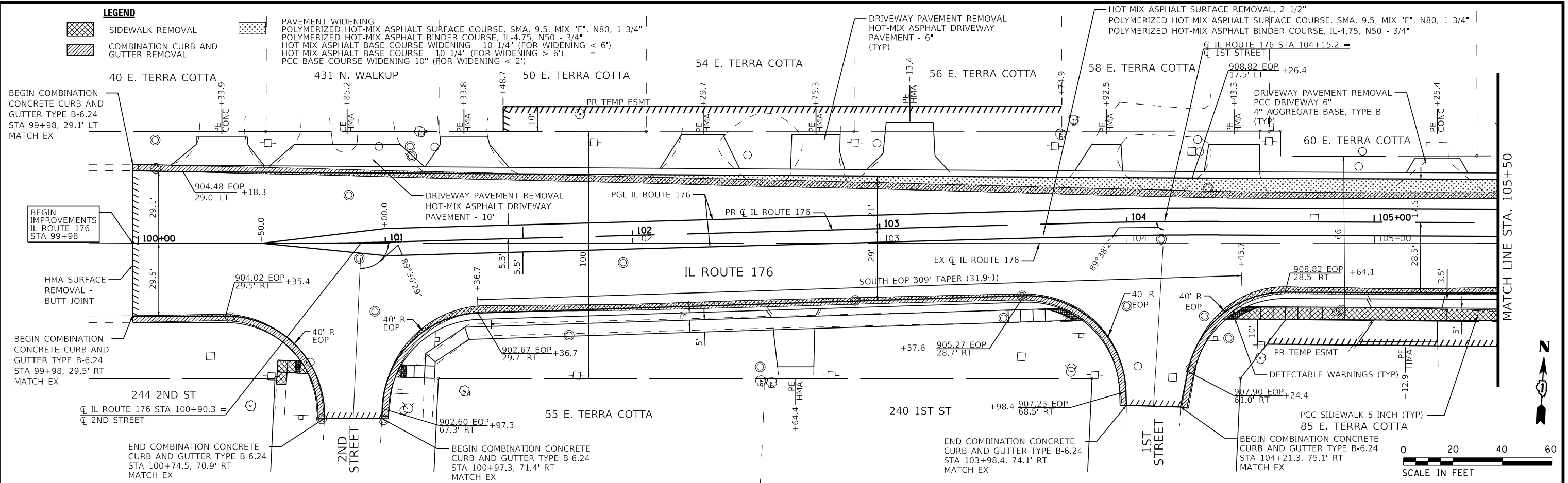
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335	15-00124-00-PV	MCHENRY	121	20
				CONTRACT NO. 61H27
		ILLINOIS	FED. AID PROJECT	



**LEGEND**

-  SIDEWALK REMOVAL
-  COMBINATION CURB AND GUTTER REMOVAL

PAVEMENT WIDENING  
 POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, SMA, 9.5, MIX "F", N80, 1 3/4"  
 POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50 - 3/4"  
 HOT-MIX ASPHALT BASE COURSE WIDENING - 10 1/4" (FOR WIDENING < 6')  
 HOT-MIX ASPHALT BASE COURSE - 10 1/4" (FOR WIDENING > 6')  
 PCC BASE COURSE WIDENING 10" (FOR WIDENING < 2')



STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM \Pictor\adef-bw-Default.plt  
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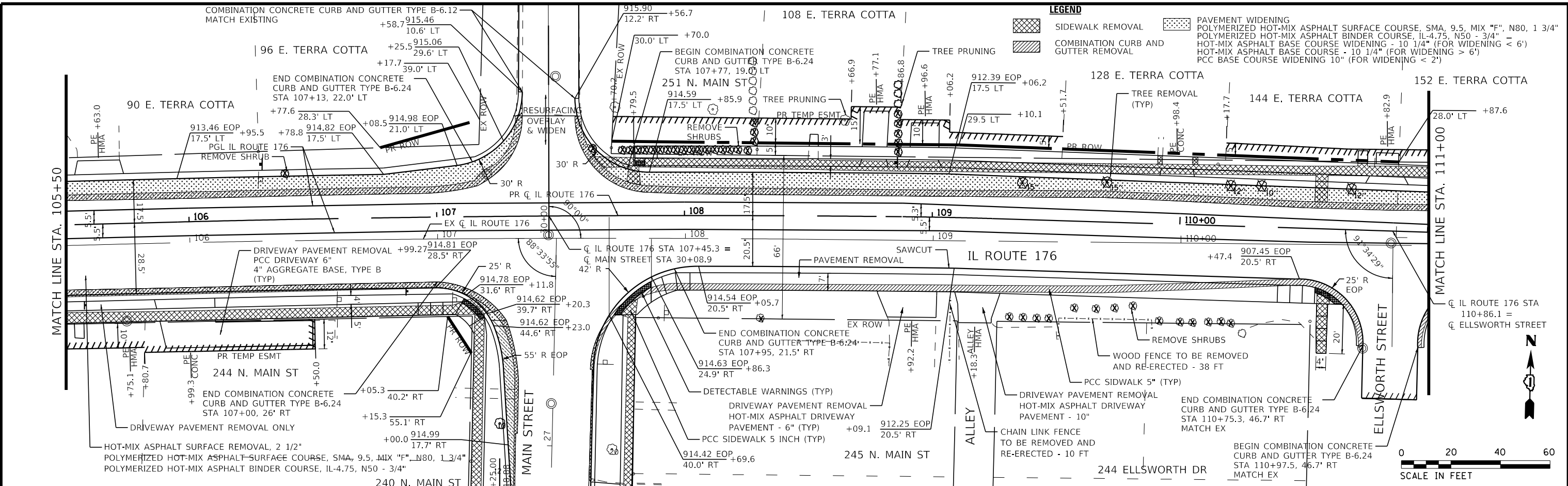
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE  
 IL ROUTE 176  
 SCALE: 1" = 20' SHEET 1 OF 3 SHEETS STA. 100+00 TO STA. 105+00

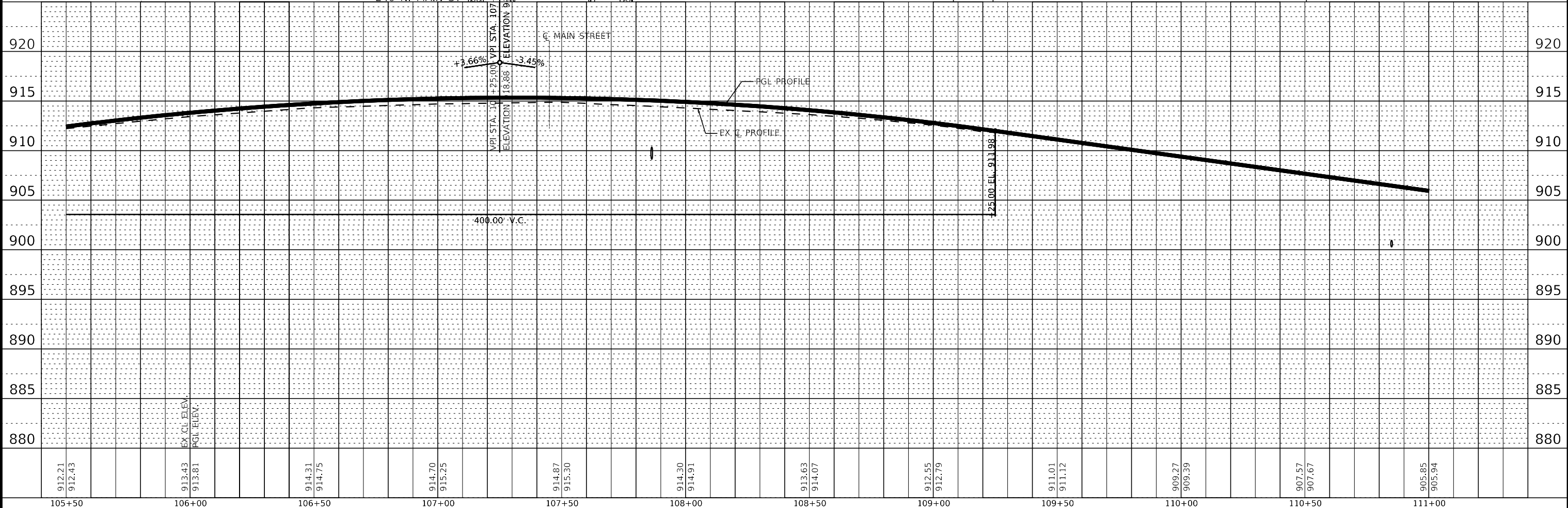
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CONTRACT NO. 61H27			ILLINOIS FED. AID PROJECT	

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**LEGEND**

	SIDEWALK REMOVAL		PAVEMENT WIDENING
	COMBINATION CURB AND GUTTER REMOVAL		POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, SMA, 9.5, MIX "F", N80, 1 3/4"
			POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50 - 3/4"
			HOT-MIX ASPHALT BASE COURSE WIDENING - 10 1/4" (FOR WIDENING < 6')
			HOT-MIX ASPHALT BASE COURSE - 10 1/4" (FOR WIDENING > 6')
			PCC BASE COURSE WIDENING 10" (FOR WIDENING < 2')



912.21	912.43	913.43	913.81	914.31	914.75	914.70	915.25	914.87	915.30	914.30	914.91	913.63	914.07	912.55	912.79	911.01	911.12	909.27	909.39	907.57	907.67	905.85	905.94	920
105+50	106+00	106+50	107+00	107+50	108+00	108+50	109+00	109+50	110+00	110+50	111+00													920



USER NAME = asramek	DESIGNED - AKS	REVISED -
PLOT SCALE = 40,0000' / in.	DRAWN - KAR	REVISED -
PLOT DATE = 8/27/2021	CHECKED - DIS	REVISED -
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE  
IL ROUTE 176

SCALE: 1" = 20'

SHEET 2 OF 3 SHEETS

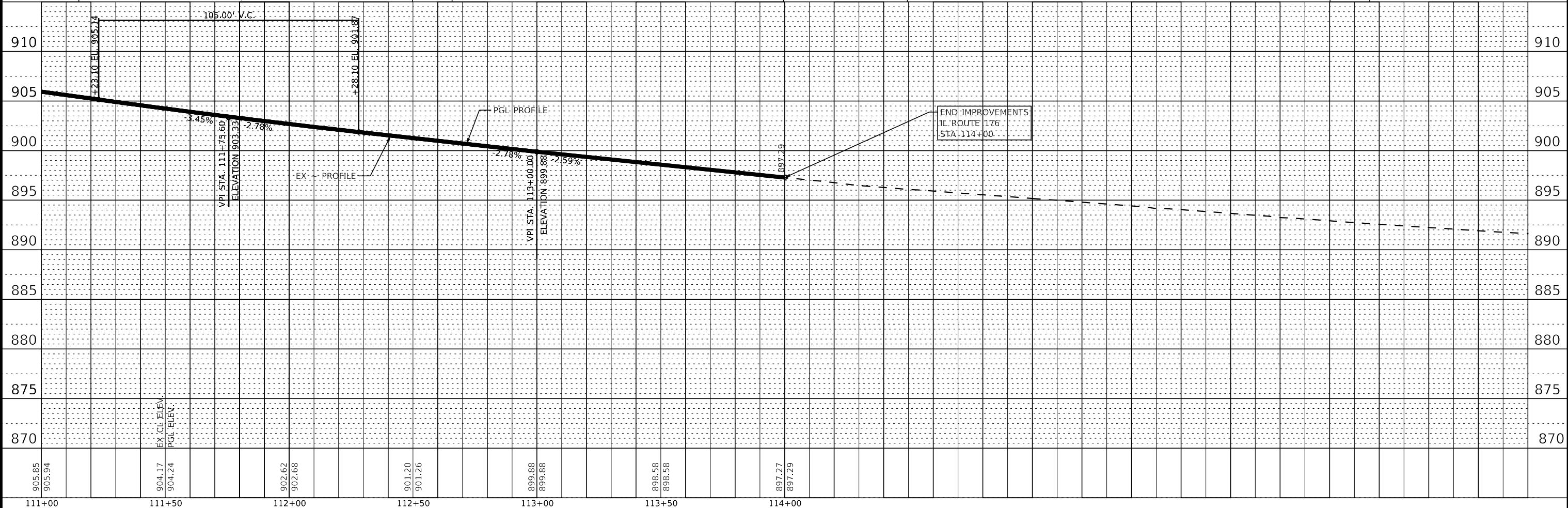
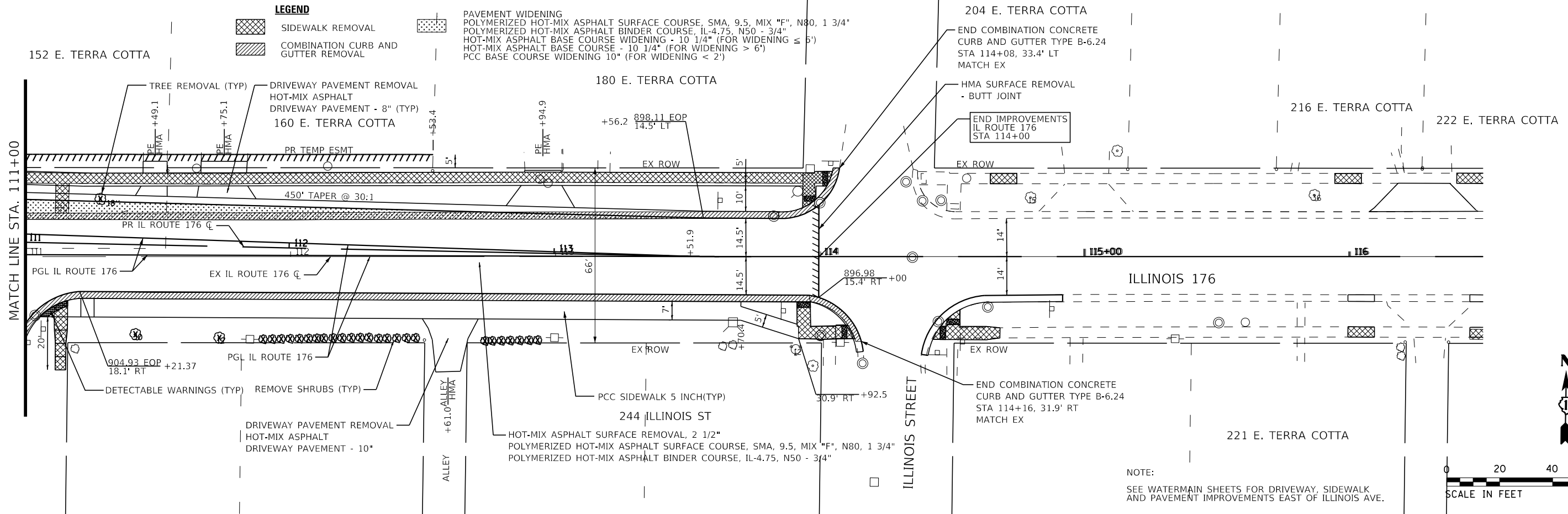
STA. 105+50 TO STA. 111+00

F.A.P. RTE. 335	SECTION 15-00124-00-PV	COUNTY MCHENRY	TOTAL SHEETS 121	SHEET NO. 22
CONTRACT NO. 61H27			ILLINOIS FED. AID PROJECT	

**LEGEND**

- SIDEWALK REMOVAL
- COMBINATION CURB AND GUTTER REMOVAL

**PAVEMENT WIDENING**  
 POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, SMA, 9.5, MIX "F", N80, 1 3/4"  
 POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50 - 3/4"  
 HOT-MIX ASPHALT BASE COURSE WIDENING - 10 1/4" (FOR WIDENING ≤ 5')  
 HOT-MIX ASPHALT BASE COURSE - 10 1/4" (FOR WIDENING > 5')  
 PCC BASE COURSE WIDENING 10" (FOR WIDENING < 2')



STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM\Project\176-177-178-179-180-181-182-183-184-185-186-187-188-189-190-191-192-193-194-195-196-197-198-199-200-201-202-203-204-205-206-207-208-209-210-211-212-213-214-215-216-217-218-219-220-221-222-223-224-225-226-227-228-229-230-231-232-233-234-235-236-237-238-239-240-241-242-243-244-245-246-247-248-249-250-251-252-253-254-255-256-257-258-259-260-261-262-263-264-265-266-267-268-269-270-271-272-273-274-275-276-277-278-279-280-281-282-283-284-285-286-287-288-289-290-291-292-293-294-295-296-297-298-299-300-301-302-303-304-305-306-307-308-309-310-311-312-313-314-315-316-317-318-319-320-321-322-323-324-325-326-327-328-329-330-331-332-333-334-335-336-337-338-339-340-341-342-343-344-345-346-347-348-349-350-351-352-353-354-355-356-357-358-359-360-361-362-363-364-365-366-367-368-369-370-371-372-373-374-375-376-377-378-379-380-381-382-383-384-385-386-387-388-389-390-391-392-393-394-395-396-397-398-399-400-401-402-403-404-405-406-407-408-409-410-411-412-413-414-415-416-417-418-419-420-421-422-423-424-425-426-427-428-429-430-431-432-433-434-435-436-437-438-439-440-441-442-443-444-445-446-447-448-449-450-451-452-453-454-455-456-457-458-459-460-461-462-463-464-465-466-467-468-469-470-471-472-473-474-475-476-477-478-479-480-481-482-483-484-485-486-487-488-489-490-491-492-493-494-495-496-497-498-499-500-501-502-503-504-505-506-507-508-509-510-511-512-513-514-515-516-517-518-519-520-521-522-523-524-525-526-527-528-529-530-531-532-533-534-535-536-537-538-539-540-541-542-543-544-545-546-547-548-549-550-551-552-553-554-555-556-557-558-559-560-561-562-563-564-565-566-567-568-569-570-571-572-573-574-575-576-577-578-579-580-581-582-583-584-585-586-587-588-589-590-591-592-593-594-595-596-597-598-599-600-601-602-603-604-605-606-607-608-609-610-611-612-613-614-615-616-617-618-619-620-621-622-623-624-625-626-627-628-629-630-631-632-633-634-635-636-637-638-639-640-641-642-643-644-645-646-647-648-649-650-651-652-653-654-655-656-657-658-659-660-661-662-663-664-665-666-667-668-669-670-671-672-673-674-675-676-677-678-679-680-681-682-683-684-685-686-687-688-689-690-691-692-693-694-695-696-697-698-699-700-701-702-703-704-705-706-707-708-709-710-711-712-713-714-715-716-717-718-719-720-721-722-723-724-725-726-727-728-729-730-731-732-733-734-735-736-737-738-739-740-741-742-743-744-745-746-747-748-749-750-751-752-753-754-755-756-757-758-759-760-761-762-763-764-765-766-767-768-769-770-771-772-773-774-775-776-777-778-779-780-781-782-783-784-785-786-787-788-789-790-791-792-793-794-795-796-797-798-799-800-801-802-803-804-805-806-807-808-809-810-811-812-813-814-815-816-817-818-819-820-821-822-823-824-825-826-827-828-829-830-831-832-833-834-835-836-837-838-839-840-841-842-843-844-845-846-847-848-849-850-851-852-853-854-855-856-857-858-859-860-861-862-863-864-865-866-867-868-869-870-871-872-873-874-875-876-877-878-879-880-881-882-883-884-885-886-887-888-889-890-891-892-893-894-895-896-897-898-899-900-901-902-903-904-905-906-907-908-909-910-911-912-913-914-915-916-917-918-919-920-921-922-923-924-925-926-927-928-929-930-931-932-933-934-935-936-937-938-939-940-941-942-943-944-945-946-947-948-949-950-951-952-953-954-955-956-957-958-959-960-961-962-963-964-965-966-967-968-969-970-971-972-973-974-975-976-977-978-979-980-981-982-983-984-985-986-987-988-989-990-991-992-993-994-995-996-997-998-999-1000

**BAXTER & WOODMAN**  
 Consulting Engineers

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PLOT SCALE = 40.0000' / in.	DRAWN - KAR	REVISED -
PLOT DATE = 8/27/2021	CHECKED - DIS	REVISED -
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

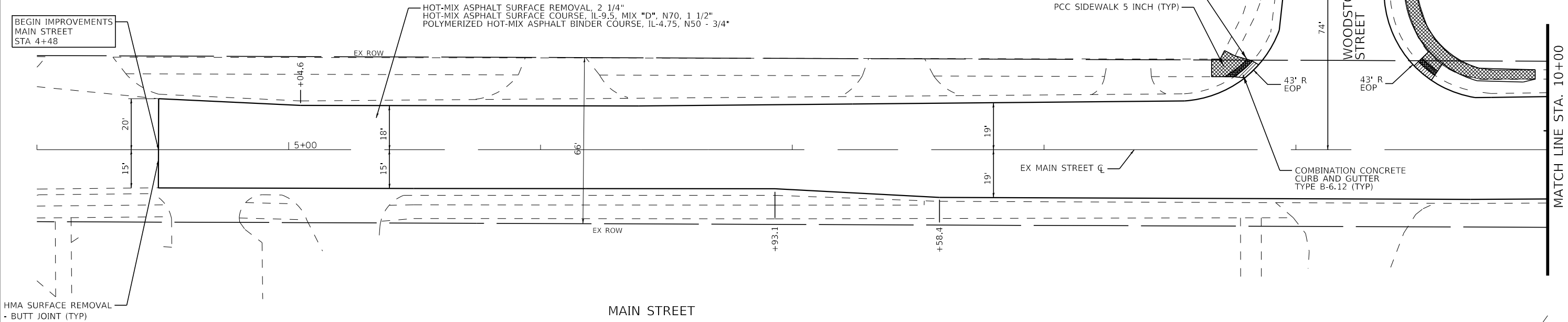
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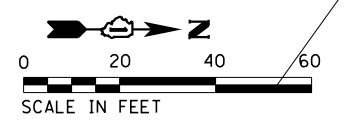
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335	15-00124-00-PV	MCHENRY	121	23
CONTRACT NO. 61H27				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM  
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 8/27/2021  
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BEGIN IMPROVEMENTS  
 MAIN STREET  
 STA 4+48



- LEGEND**
- SIDEWALK REMOVAL
  - COMBINATION CURB AND GUTTER REMOVAL



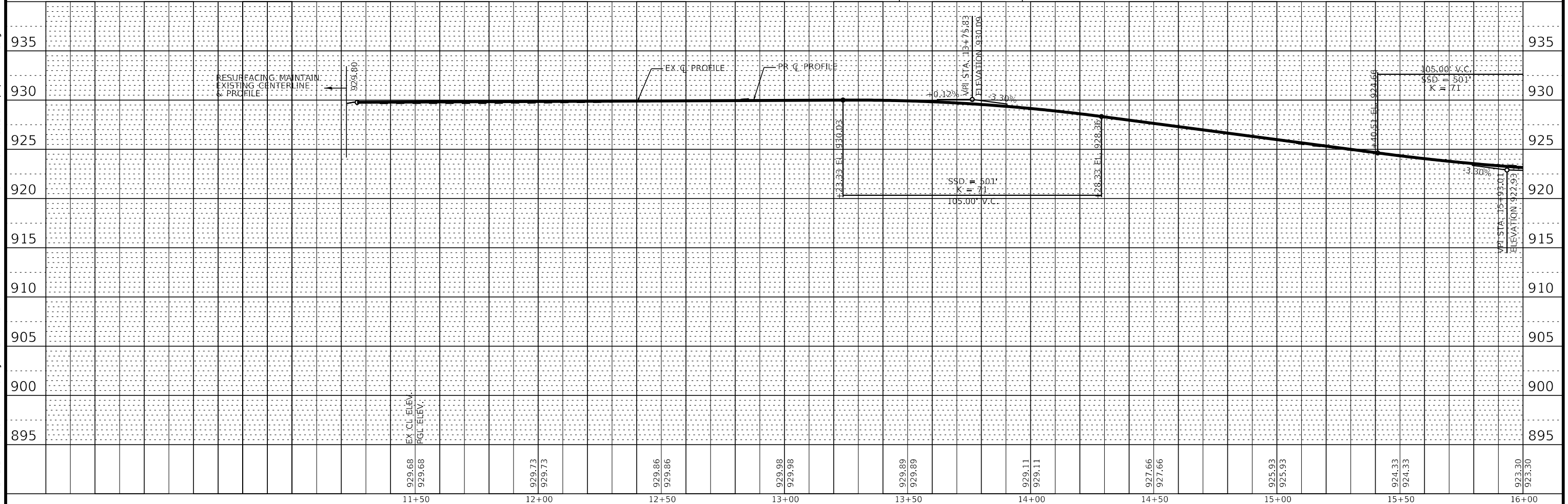
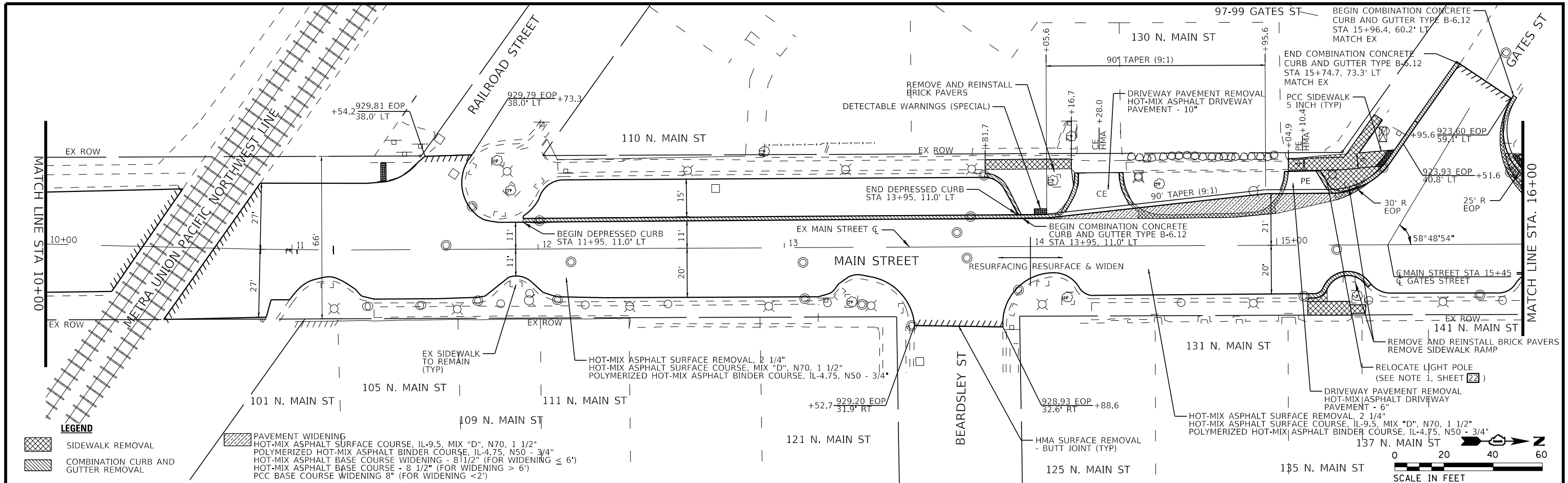
<b>BAXTER &amp; WOODMAN</b> Consulting Engineers	USER NAME = asramek	DESIGNED - DJS	REVISED -
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		DATE - 08-26-2021	FILE - 181171_ss2-sht-plnprf-Main-1.dgn

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PLAN  
 MAIN STREET

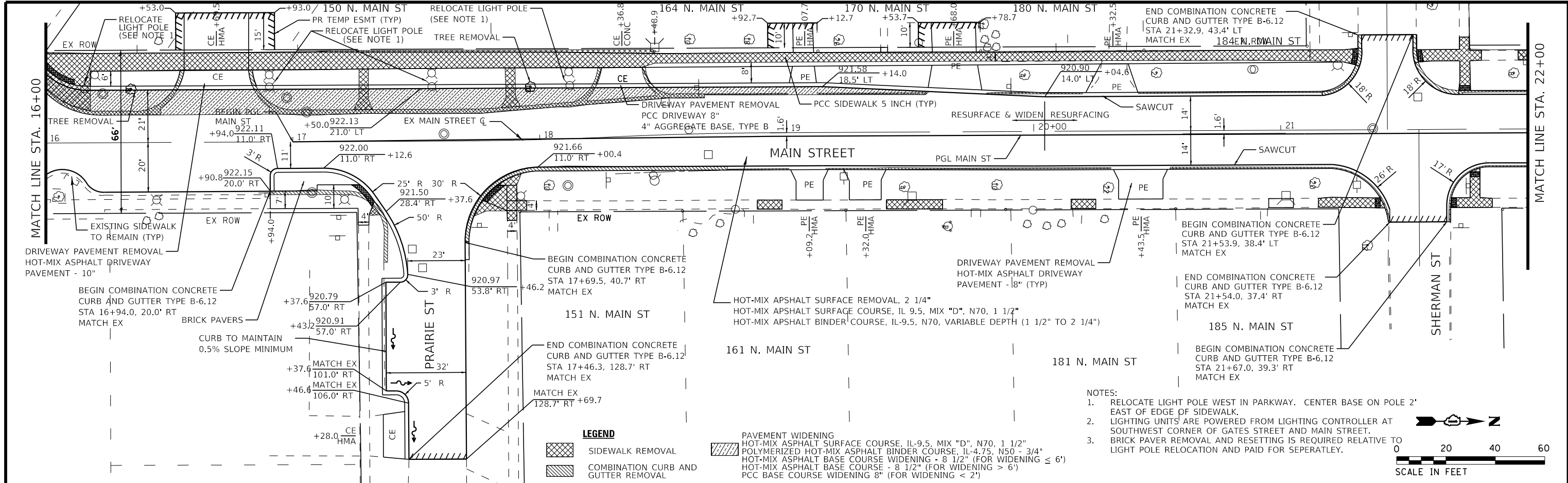
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 61H27				
ILLINOIS FED. AID PROJECT				

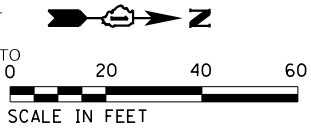


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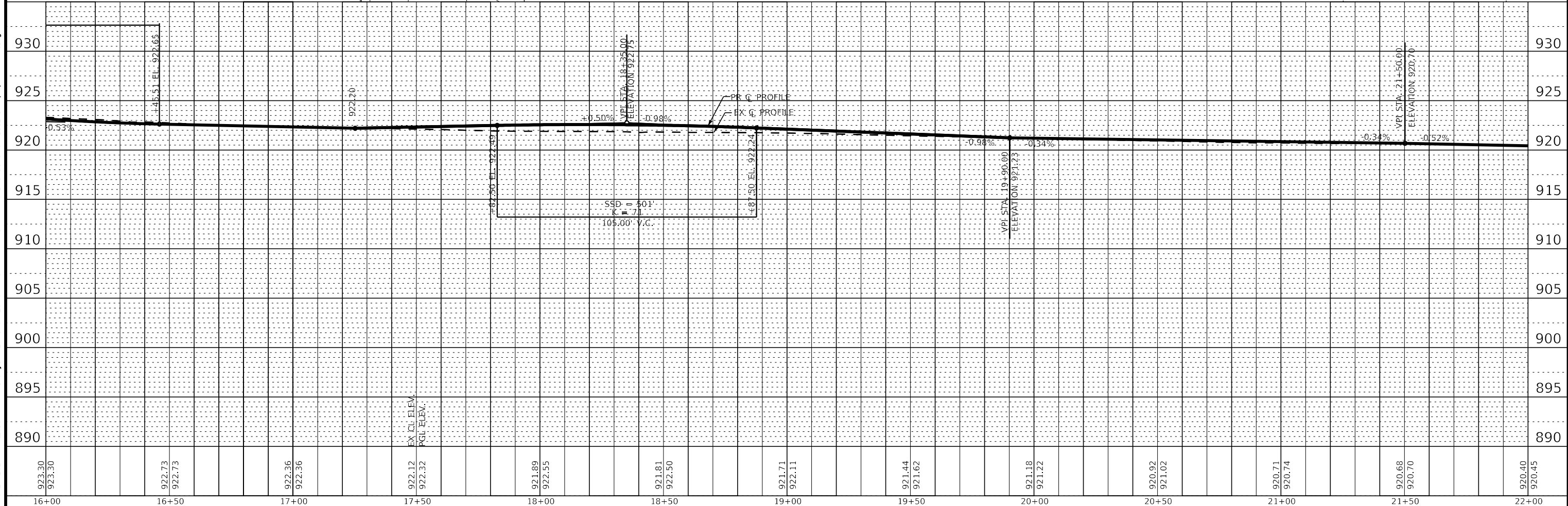


- NOTES:**
1. RELOCATE LIGHT POLE WEST IN PARKWAY. CENTER BASE ON POLE 2' EAST OF EDGE OF SIDEWALK.
  2. LIGHTING UNITS ARE POWERED FROM LIGHTING CONTROLLER AT SOUTHWEST CORNER OF GATES STREET AND MAIN STREET.
  3. BRICK PAVEMENT REMOVAL AND RESETTling IS REQUIRED RELATIVE TO LIGHT POLE RELOCATION AND PAID FOR SEPERATLEY.



- LEGEND**
- [Cross-hatched box] SIDEWALK REMOVAL
  - [Diagonal lines box] COMBINATION CURB AND GUTTER REMOVAL

- PAVEMENT WIDENING**
- HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70, 1 1/2"
  - POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50 - 3/4"
  - HOT-MIX ASPHALT BASE COURSE WIDENING - 8 1/2" (FOR WIDENING ≤ 6')
  - HOT-MIX ASPHALT BASE COURSE - 8 1/2" (FOR WIDENING > 6')
  - PCC BASE COURSE WIDENING 8" (FOR WIDENING < 2')



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<b>BAXTER &amp; WOODMAN</b> Consulting Engineers				USER NAME = asramek DESIGNED - AKS DRAWN - KAR CHECKED - DIS DATE - 08-26-2021	REVISED - REVISED - REVISED - FILE 181171_ss2-sht-plnprf-Main-3.dgn	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN AND PROFILE MAIN STREET	F.A.P. RTE. 335 SECTION 15-00124-00-PV COUNTY MCHENRY TOTAL SHEETS 121 SHEET NO. 26 CONTRACT NO. 61H27	SCALE: 1" = 20' SHEET 3 OF 5 SHEETS STA. 16+00 TO STA. 22+00	ILLINOIS FED. AID PROJECT
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202 N. MAIN ST

224 N. MAIN ST

240 N. MAIN ST

228 N. MAIN ST

234 N. MAIN ST

218 N. MAIN ST

DRIVEWAY PAVEMENT REMOVAL  
HOT-MIX ASPHALT DRIVEWAY  
PAVEMENT - 8" (TYP)

244 N. MAIN ST

208 N. MAIN ST

212 N. MAIN ST

PE HMA +83.0

PE HMA +50.6

PE HMA +50.9

PE HMA +33.1

+70.8

915.18  
16.0' LT



+79.9







TREE REMOVAL

MATCH LINE STA 22+00

MATCH LINE STA 30+15

**LEGEND**

-  SIDEWALK REMOVAL
-  COMBINATION CURB AND GUTTER REMOVAL

-  PAVEMENT WIDENING
-  HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70, 1 1/2"
-  POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50 - 3/4"
-  HOT-MIX ASPHALT BASE COURSE WIDENING - 8 1/2" (FOR WIDENING < 6')
-  HOT-MIX ASPHALT BASE COURSE - 8 1/2" (FOR WIDENING > 6')
-  PCC BASE COURSE WIDENING 8" (FOR WIDENING < 2')

207 N. MAIN ST

HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"  
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70, 1 1/2"  
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50 - 3/4"

217 N. MAIN ST

PE HMA +18.0

156' TAPER  
1:78 TAPER RATE

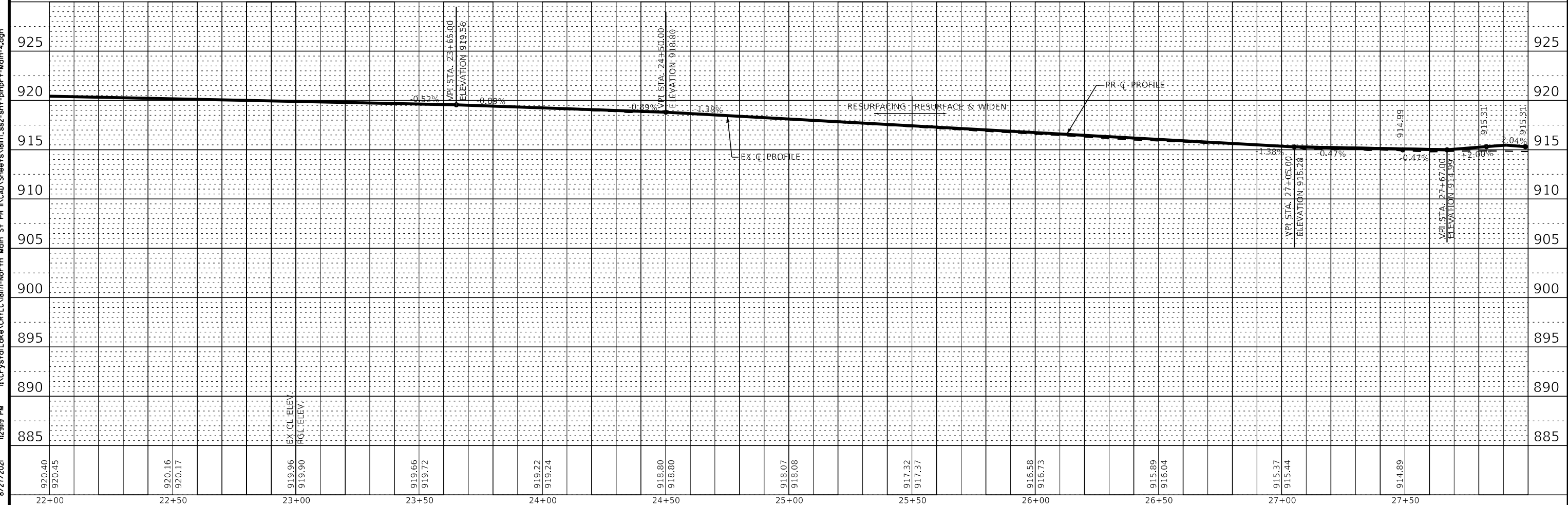
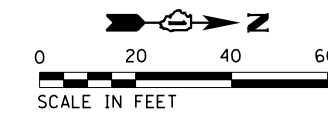
227 N. MAIN ST

233 N. MAIN ST

237 N. MAIN ST

245 MAIN ST

ILLINOIS 176



STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM \Pictor\vdof-BW-Default.plt  
 LICENSE NO. - 184-00121 - EXPIRES 4/30/2019  
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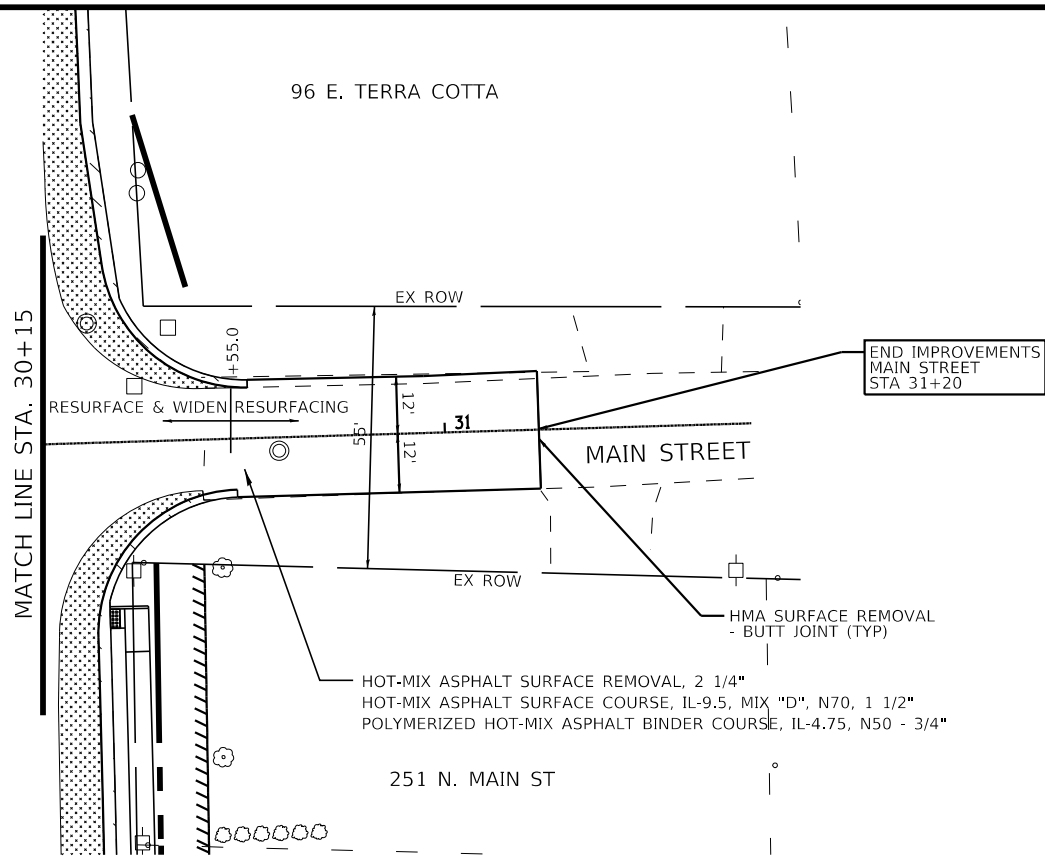
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

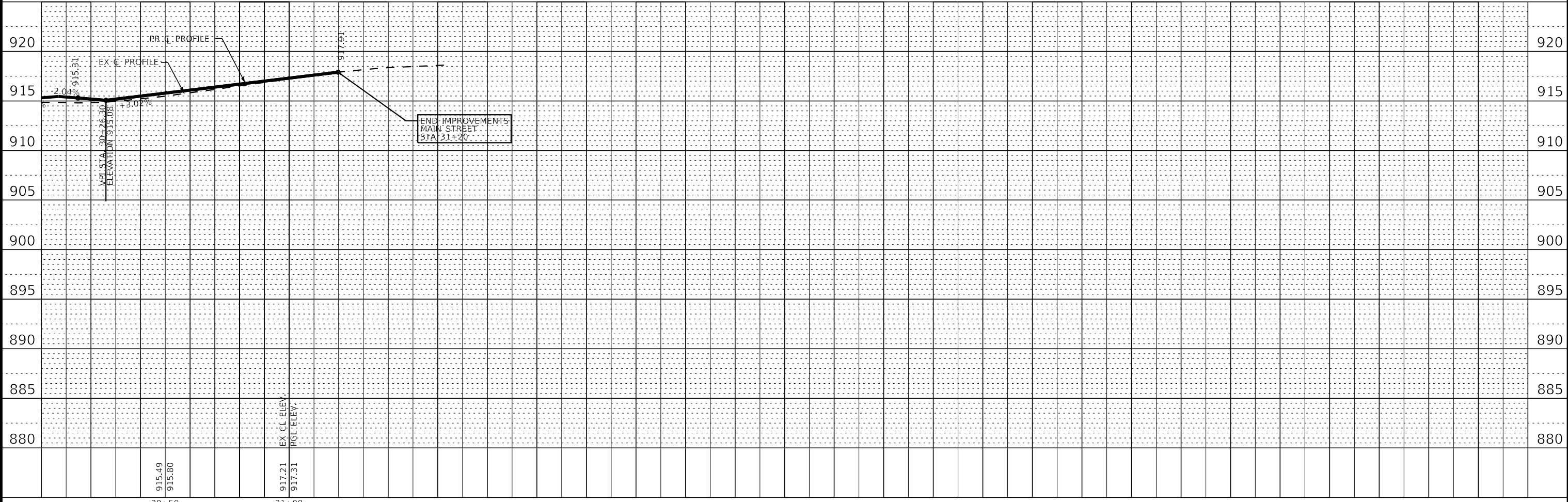
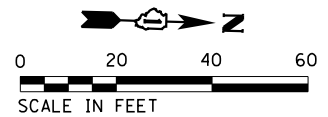
PLAN AND PROFILE  
MAIN STREET

SCALE: 1" = 20'  
SHEET 4 OF 5 SHEETS  
STA. 22+00 TO STA. 30+15

F.A.P. RTE. 335	SECTION 15-00124-00-PV	COUNTY MCHENRY	TOTAL SHEETS 121	SHEET NO. 27
CONTRACT NO. 61H27			ILLINOIS FED. AID PROJECT	



- LEGEND**
- SIDEWALK REMOVAL
  - COMBINATION CURB AND GUTTER REMOVAL
  - PAVEMENT WIDENING
  - POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, SMA, 9.5, MIX "F", N80, 1 3/4"
  - POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50 - 3/4"
  - HOT-MIX ASPHALT BASE COURSE WIDENING - 10 1/4" (FOR WIDENING ≤ 6')
  - HOT-MIX ASPHALT BASE COURSE - 10 1/4" (FOR WIDENING > 6')
  - PCC FOR BASE WIDENING, 10" (FOR WIDENING < 2')



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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE  
MAIN STREET

SCALE: 1" = 20' SHEET 5 OF 5 SHEETS STA. 30+15 TO STA. 32+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	15-00124-00-PV	MCHENRY	121	28
CONTRACT NO. 61H27				
ILLINOIS FED. AID PROJECT				

**MAINTENANCE OF TRAFFIC GENERAL NOTES:**

1. ANY CHANGE IN TRAFFIC CONTROL SHALL HAVE PRIOR APPROVAL BY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF THREE (3) DAYS NOTICE IN ADVANCE OF CONSTRUCTION ACTIVITIES.
2. THE CONTRACTOR SHALL SUBMIT A PREPLANNED SEQUENCE OF WORK PRIOR TO THE START OF WORK FOR REVIEW AND APPROVAL. NO WORK SHALL COMMENCE UNTIL THE PREPLANNED SEQUENCE OF WORK HAS BEEN APPROVED BY THE ENGINEER. WORK SHALL BE SCHEDULED TO MINIMIZE INCONVENIENCE TO PROPERTY OWNERS AND TENANTS AND TO MAINTAIN A REASONABLE LEVEL OF CONSTRUCTION EFFICIENCY. THE ENGINEER RESERVES THE RIGHT TO RESTRICT WORK ON ANY ROADWAY/SIDEWALK SEGMENT IF CONSTRUCTION OPERATIONS ON A PREVIOUS SEGMENT ARE UNACCEPTABLE; TRAFFIC CONTROL OPERATIONS BECOME UNACCEPTABLE; OR AN EROSION CONTROL DEFICIENCY EXISTS.
3. THE CONTRACTOR WILL BE REQUIRED TO ATTEND WEEKLY PROGRESS MEETINGS WITH THE CITY AND ENGINEER TO PROVIDE WEEKLY UPDATES ON THE PROPOSED WORK SCHEDULE AND UPCOMING SEQUENCE OF CONSTRUCTION ACTIVITIES. THE WORK SCHEDULE AND SEQUENCE OF WORK WILL REQUIRE APPROVAL OF THE CITY AND COORDINATION WITH IMPACTED PROPERTY OWNERS AND TENANTS.
4. AGGREGATE SURFACE WILL NOT BE ALLOWED FOR MAINTAINING MAINLINE TRAFFIC. PATCHING OPERATIONS SHALL BE STAGED SO THAT PATCHING AND/OR TEMPORARY PAVEMENT CAN BE COMPLETED ON THE SAME DAY AS PAVEMENT REMOVAL.
5. THE CONTRACTOR SHALL PROVIDE TEMPORARY ACCESS TO DRIVEWAYS AND SIDE STREETS DURING CONSTRUCTION. THIS WORK SHALL BE IN ACCORDANCE WITH THE SPECIAL PROVISION FOR AGGREGATE SURFACE COURSE FOR TEMPORARY ACCESS.
6. ALL COMMERCIAL PROPERTIES AND PARKING LOTS SHALL BE PROVIDED AT LEAST ONE INGRESS AND ONE EGRESS AT ALL TIMES. THE CONTRACTOR SHALL COORDINATE DRIVEWAY CLOSURES/MODIFICATIONS WITH THE PROPERTY OWNERS AND TENANTS AND THE ENGINEER. COMMERCIAL DRIVEWAYS WHICH CANNOT BE CLOSED, AS DETERMINED BY THE ENGINEER, SHALL BE CONSTRUCTED IN STAGES OR WILL BE CONSTRUCTED WHEN BUSINESSES ARE NOT OPEN USING HIGH EARLY STRENGTH CONCRETE. IF NECESSARY, THE CONTRACTOR SHALL MAINTAIN ACCESS TO COMMERCIAL DRIVEWAYS BY USE OF FLAGGERS DURING CONSTRUCTION WORK HOURS AS DETERMINED BY THE ENGINEER.
7. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ALLEYS AND SIDE ROADS DURING CONSTRUCTION.
8. RESIDENTS AND BUSINESSES SHALL HAVE ACCESS TO THEIR DRIVEWAYS AT THE END OF EACH DAY, EXCEPT DURING ADJACENT CURB AND GUTTER CONSTRUCTION OR CONCRETE DRIVEWAY REPLACEMENT THEN HIGH EARLY STRENGTH CONCRETE SHALL BE USED.
9. CONSTRUCTION SHALL BE STAGED SO THAT AGGREGATE SUBGRADE IMPROVEMENT IS PLACED WITHIN 24 HOURS OF COMPLETING EARTH EXCAVATION FOR EACH LOCATION.
10. DRIVEWAY ENTRANCE SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAIL FOR DRIVEWAY ENTRANCE SIGNING.
11. DETOURS SHALL NOT OCCUR AT THE SAME TIME. THE FIRST DETOUR SHALL BE COMPLETELY REMOVED PRIOR TO ESTABLISHING THE SECOND DETOUR. MAIN STREET SHALL BE DETOURED FIRST.
12. DETOURS ARE ONLY ALLOWED FOR WATER MAIN WORK. ALL OTHER WORK SHALL BE COMPLETED USING HIGHWAY STANDARDS.
13. WESTBOUND TRAFFIC SHALL BE MAINTAINED ON IL ROUTE 176 AT ALL TIMES.
14. SOUTHBOUND TRAFFIC SHALL BE MAINTAINED ON MAIN STREET AT ALL TIMES.

15. ALL SIDE STREETS SHALL BE OPEN TO TWO-WAY TRAFFIC AT THE END OF THE DAY.
16. 11 FT WIDE TRAVEL LANES SHALL BE MAINTAINED AT ALL TIMES AND EDGE OF THE TRAVEL LANE SHALL BE A MINIMUM OF 8 FT FROM THE EDGE OF THE TRENCH.
17. EMERGENCY VEHICLE ACCESS SHALL BE MAINTAINED AT ALL TIMES.
18. ALL WATER MAIN AND STORM SEWER LATERALS SHALL BE CONSTRUCTED USING FLAGGERS DURING TWO WAY TRAFFIC CONDITIONS.
19. CHANGEABLE MESSAGE SIGNS SHALL BE INSTALLED TWO WEEKS PRIOR TO ALL ROAD CLOSURE, TRAFFIC STAGE CHANGES, AND NEW TRAFFIC SIGNAL TURN-ON EVENTS ON EACH APPROACH OF THE EFFECTED ROADWAY TO WARN MOTORISTS OF THE UPCOMING EVENT. THE SIGNS SHALL BE REMOVED TWO WEEKS THEREAFTER UNLESS THE SIGNS ARE NEEDED AGAIN FOR A SUBSEQUENT FUTURE EVENT THAT WILL OCCUR WITHIN 2 WEEKS ON THE SAME APPROACH OF THE EFFECTED ROADWAY. THE SIGN LOCATION SHALL BE DETERMINED BY THE ENGINEER.
20. ALL DROP-OFFS ADJACENT TO THE TRAVEL LANES SHALL BE KEPT TO A MINIMUM. DROP-OFFS GREATER THAN 36" WILL NOT BE ALLOWED AT LOCATIONS WHERE THE DROP-OFF IS LOCATED WITHIN 8 FT OF THE EDGE OF THE TRAVEL LANE. THE CONTRACTOR WILL BE REQUIRED TO PERFORM THE EXCAVATION REQUIRED FOR THE CONSTRUCTION DURING THE TIME THAT THE ADJACENT LANE IS CLOSED. THE CONTRACTOR SHALL PLACE SUFFICIENT MATERIAL TO REDUCE THE DROP-OFF TO LESS THAN 36". THE CONTRACTOR SHALL BE RESPONSIBLE TO DETERMINE THE AMOUNT OF WORK THAT CAN BE COMPLETED WITHIN THE TIME OF THE DAILY LANE CLOSURE. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED TO COMPLY WITH THIS REQUIREMENT.

**CONSTRUCTION STAGING:**

**STAGE 1- MAIN STREET:**

1. ESTABLISH MAIN STREET NORTHBOUND DETOUR.
2. CONSTRUCTION OF WATER MAIN.
3. PAVEMENT PATCHING AND RESTORATION OF AREAS DISTURBED BY WATER MAIN WORK.
4. REMOVE MAIN STREET NORTHBOUND DETOUR.

**STAGE 2- MAIN STREET:**

1. ROAD WIDENING, RESURFACING, PATCHING, WATER MAIN LATERALS, STORM SEWER, CURB AND GUTTER, SIDEWALK, AND LANDSCAPING SHALL BE CONSTRUCTED USING HIGHWAY STANDARDS: 701006, 701011, 701301 701311, 701427, 701501, 701502, AND 701801.

**STAGE 3 - IL ROUTE 176(AFTER MAIN STREET IS COMPLETE):**

1. ESTABLISH IL ROUTE 176 EASTBOUND DETOUR.
2. CONSTRUCTION OF WATER MAIN.
3. PAVEMENT PATCHING AND RESTORATION OF AREAS DISTURBED BY WATER MAIN WORK.
4. REMOVE IL ROUTE 176 EASTBOUND DETOUR.

**STAGE 4- IL ROUTE 176:**

1. ROAD WIDENING, RESURFACING, PATCHING, WATER MAIN LATERALS, STORM SEWER, CURB AND GUTTER, SIDEWALK, AND LANDSCAPING SHALL BE CONSTRUCTED USING HIGHWAY STANDARDS: 701006, 701011, 701301 701311, 701427, 701501, 701502, AND 701801.

**MOTORIST NOTIFICATION FOR TURNING ON NEW TRAFFIC SIGNALS IN DISTRICT 1**

THIS PROCEDURE SHALL BE FOLLOWED WHENEVER A NEW TRAFFIC SIGNAL IS TURNED ON WHERE SIGNALS DID NOT PREVIOUSLY EXIST:

**2 WEEKS PRIOR TO SCHEDULED SIGNAL TURN-ON:**  
PLACE A CHANGEABLE MESSAGE SIGN (CMS) ON EACH MAINLINE APPROACH TO THE INTERSECTION WHICH READS:

NEW  
TRAFFIC  
SIGNAL

STARTING  
MMM ##

[INSERT 3-DIGIT MONTH ABBREVIATION & DATE SCHEDULED TURN-ON]

**ON THE DAY OF THE TURN-ON, CHANGE MESSAGES TO READ:**

NEW  
SIGNAL  
AHEAD

BE  
PREPARED  
TO STOP

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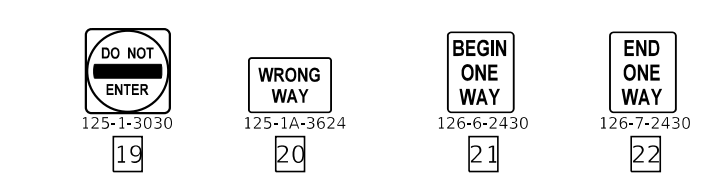
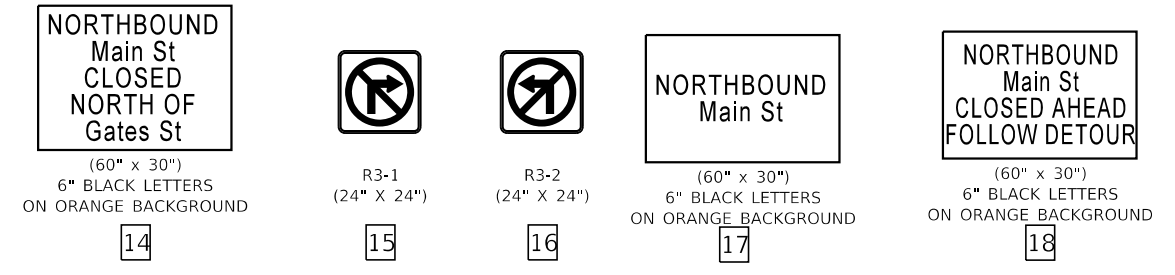
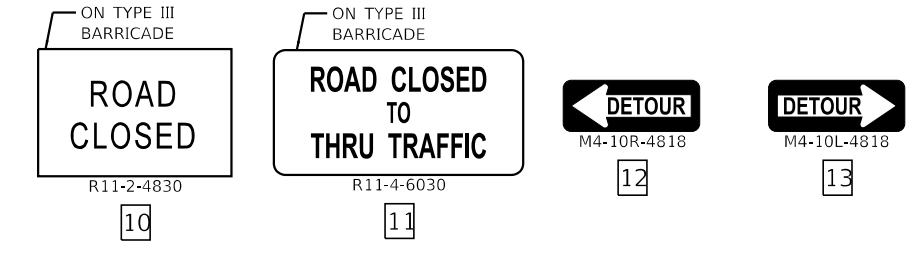
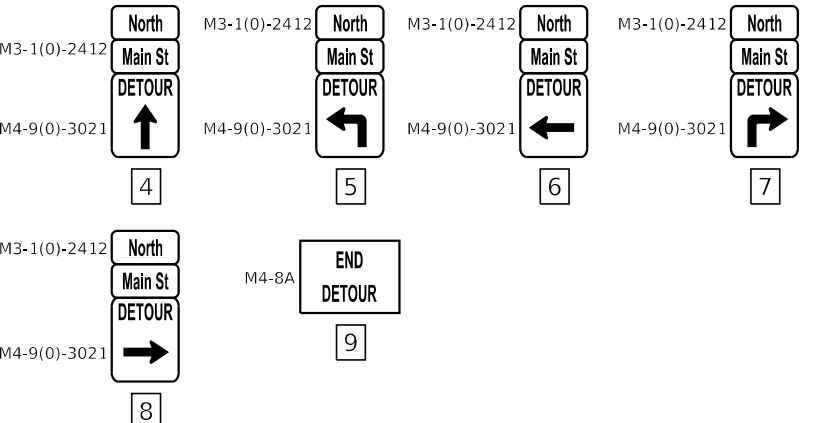
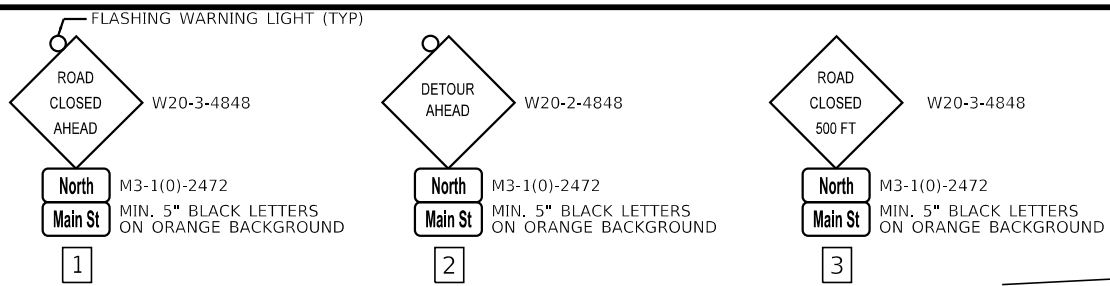
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC  
GENERAL NOTES

SCALE: NONE    SHEET 1 OF 1 SHEETS    STA.    TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	15-00124-00-PV	McHENRY	121	29
CONTRACT NO. 61H27				
ILLINOIS FED. AID PROJECT				



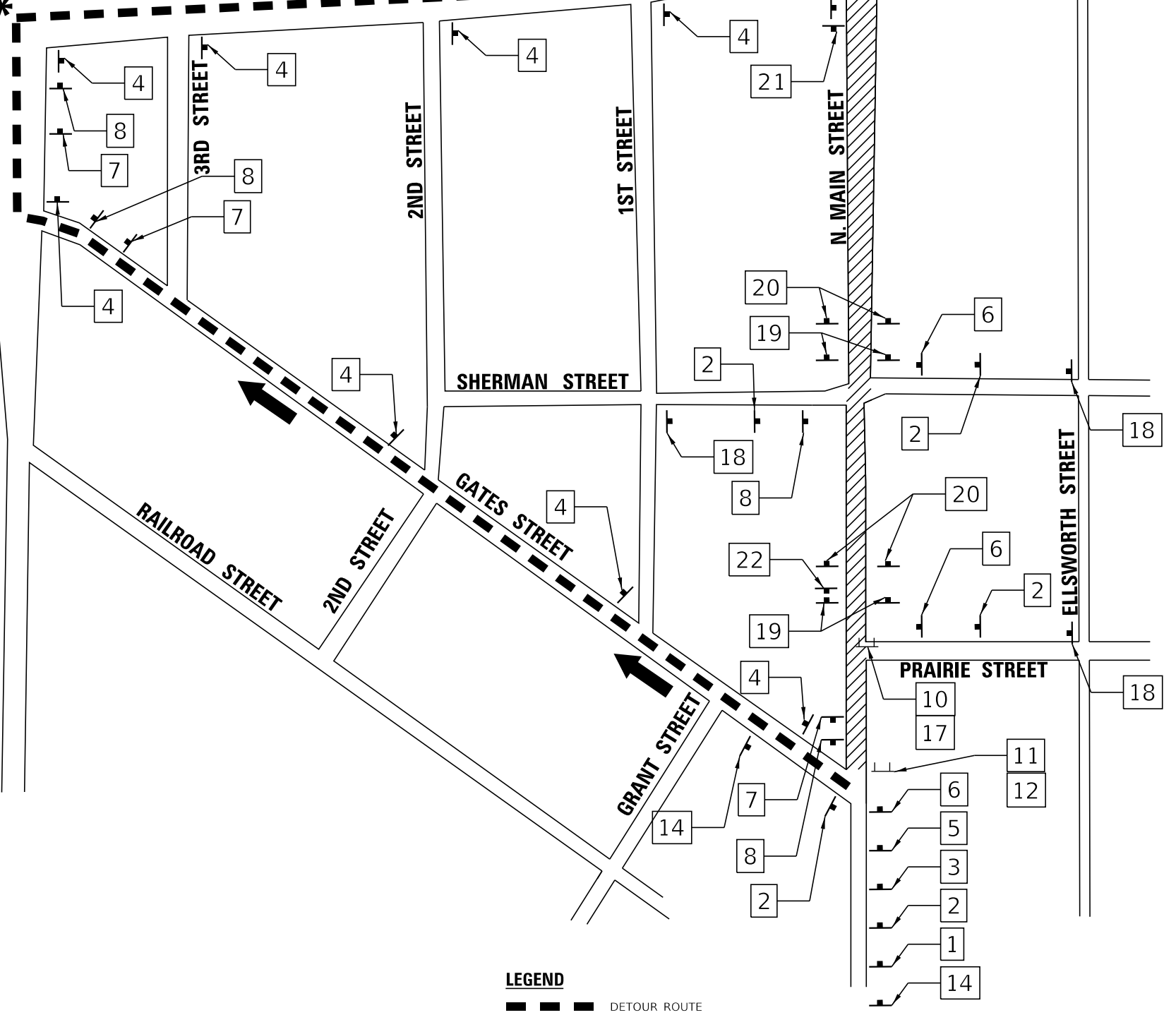
**MAINTENANCE OF TRAFFIC NOTES**

1. REFER TO DISTRICT DETAIL TC-21 FOR TYPICAL SIGN LAYOUT AND SPACING.
2. THE ENGINEER SHALL BE INFORMED 48 HOURS IN ADVANCE OF ANY CHANGE IN CONSTRUCTION STAGING. THE FURNISHING, INSTALLING, AND RELOCATION OF ALL TRAFFIC SIGNS SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).
3. ALL CONFLICTING TRAFFIC SIGNS SHALL BE COVERED AS DETERMINED BY THE ENGINEER. THIS SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).
4. THE CONTRACTOR SHALL MAINTAIN EMERGENCY VEHICLE AND LOCAL TRAFFIC DURING THE CONSTRUCTION OF MAIN STREET. THE COST FOR MAINTAINING ACCESS ON MAIN STREET SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).

N. WALKUP AVE

E. TERRA COTTA AVENUE (IL RTE 176)

BURDENT DRIVE



**LEGEND**

- DETOUR ROUTE
- ▨ ROAD CLOSED TO NORTHBOUND TRAFFIC
- DIRECTION OF TRAFFIC
- SIGN
- ⊥ TYPE III BARRICADE
- \* TEMPORARY TRAFFIC SIGNAL TIMING REQUIRED (1 EACH)

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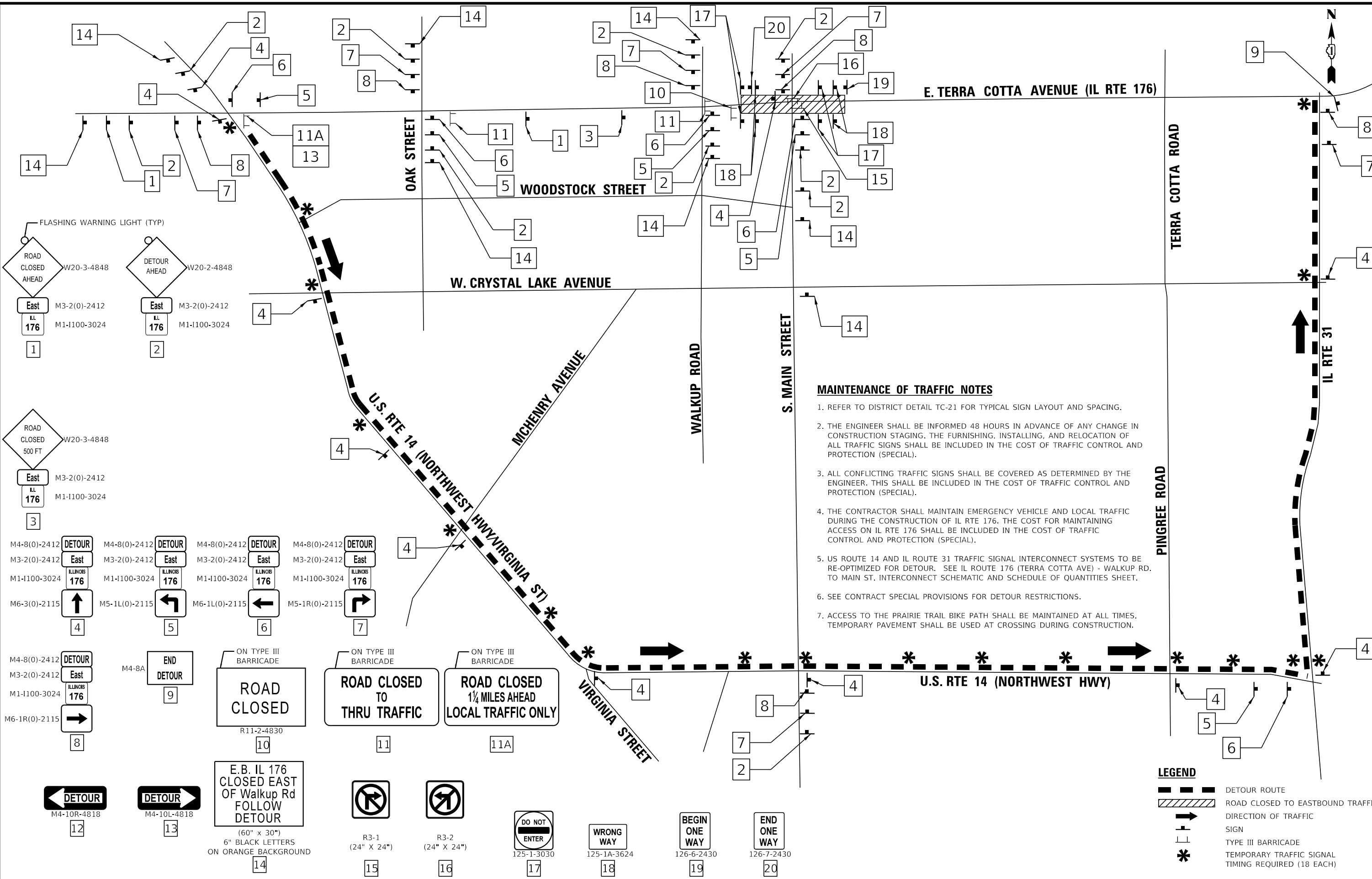
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE: NTS		SHEET 1 OF 2 SHEETS		STA. TO STA.	
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F.A. RTE. 124	SECTION 15-00124-00-PV	COUNTY MCHENRY	TOTAL SHEETS 121	SHEET NO. 30
CONTRACT NO. 61H27				
ILLINOIS FED. AID PROJECT				

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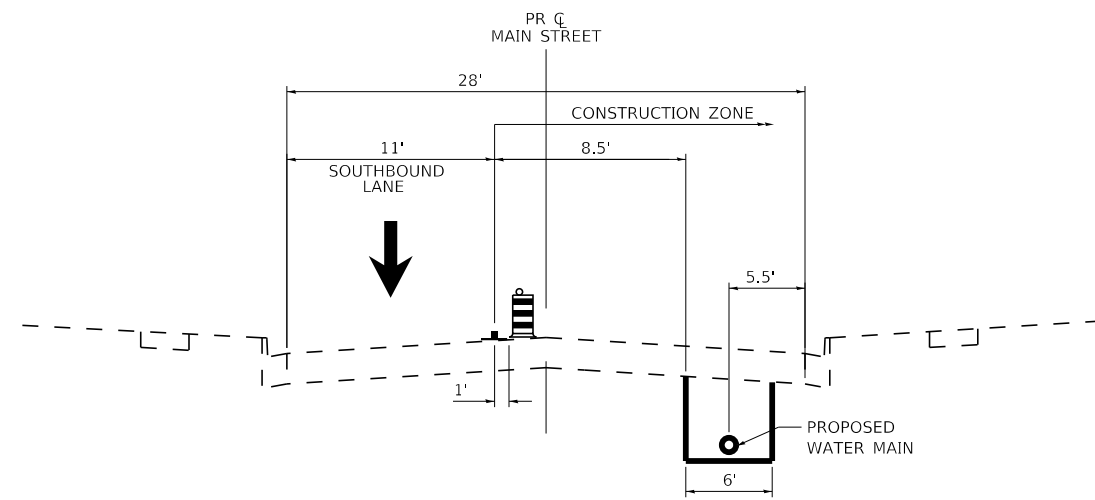
- MAINTENANCE OF TRAFFIC NOTES**
1. REFER TO DISTRICT DETAIL TC-21 FOR TYPICAL SIGN LAYOUT AND SPACING.
  2. THE ENGINEER SHALL BE INFORMED 48 HOURS IN ADVANCE OF ANY CHANGE IN CONSTRUCTION STAGING. THE FURNISHING, INSTALLING, AND RELOCATION OF ALL TRAFFIC SIGNS SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).
  3. ALL CONFLICTING TRAFFIC SIGNS SHALL BE COVERED AS DETERMINED BY THE ENGINEER. THIS SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).
  4. THE CONTRACTOR SHALL MAINTAIN EMERGENCY VEHICLE AND LOCAL TRAFFIC DURING THE CONSTRUCTION OF IL RTE 176. THE COST FOR MAINTAINING ACCESS ON IL RTE 176 SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).
  5. US ROUTE 14 AND IL ROUTE 31 TRAFFIC SIGNAL INTERCONNECT SYSTEMS TO BE RE-OPTIMIZED FOR DETOUR. SEE IL ROUTE 176 (TERRA COTTA AVE) - WALKUP RD. TO MAIN ST. INTERCONNECT SCHEMATIC AND SCHEDULE OF QUANTITIES SHEET.
  6. SEE CONTRACT SPECIAL PROVISIONS FOR DETOUR RESTRICTIONS.
  7. ACCESS TO THE PRAIRIE TRAIL BIKE PATH SHALL BE MAINTAINED AT ALL TIMES. TEMPORARY PAVEMENT SHALL BE USED AT CROSSING DURING CONSTRUCTION.

**LEGEND**

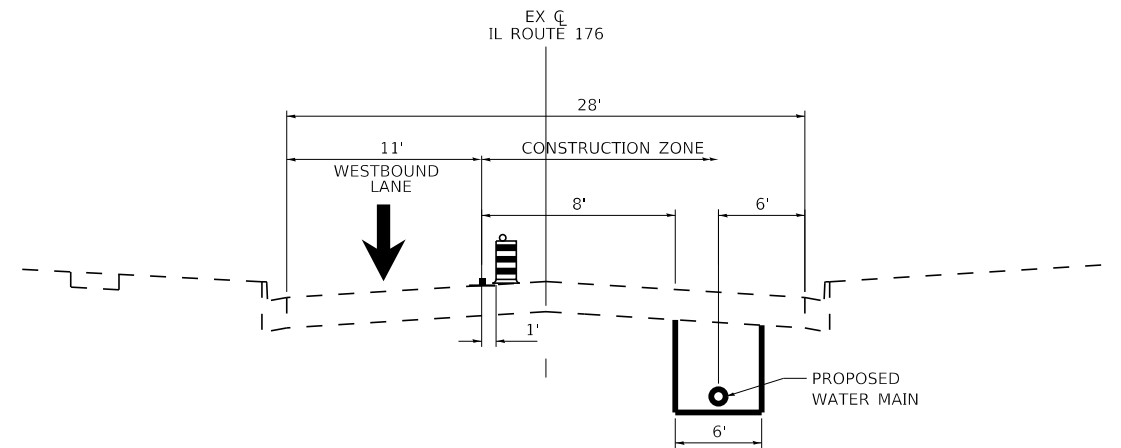
	DETOUR ROUTE
	ROAD CLOSED TO EASTBOUND TRAFFIC
	DIRECTION OF TRAFFIC
	SIGN
	TYPE III BARRICADE
	TEMPORARY TRAFFIC SIGNAL TIMING REQUIRED (18 EACH)

	USER NAME = mornjg	DESIGNED AKS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC MAIN STREET	F.A. RTE. 124	SECTION 15-00124-00-PV	COUNTY MCHENRY	TOTAL SHEETS 121	SHEET NO. 31
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**MOT TYPICAL SECTION**  
 MAIN STREET  
 STAGE 1



**MOT TYPICAL SECTION**  
 IL ROUTE 176  
 STAGE 3

**LEGEND**

- ↓ DIRECTION OF TRAFFIC
- ▬ DRUM OR TYPE II BARRICADES AT 50' C-C SPACING TANGENT AND 25' C-C IN TAPERS AND RADII
- - - EXISTING ELEMENTS
- ▬ PROPOSED ELEMENTS (THIS STAGE)
- ┌ 4" SOLID YELLOW TYPE IV TAPE EDGE LINE (TYP)



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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

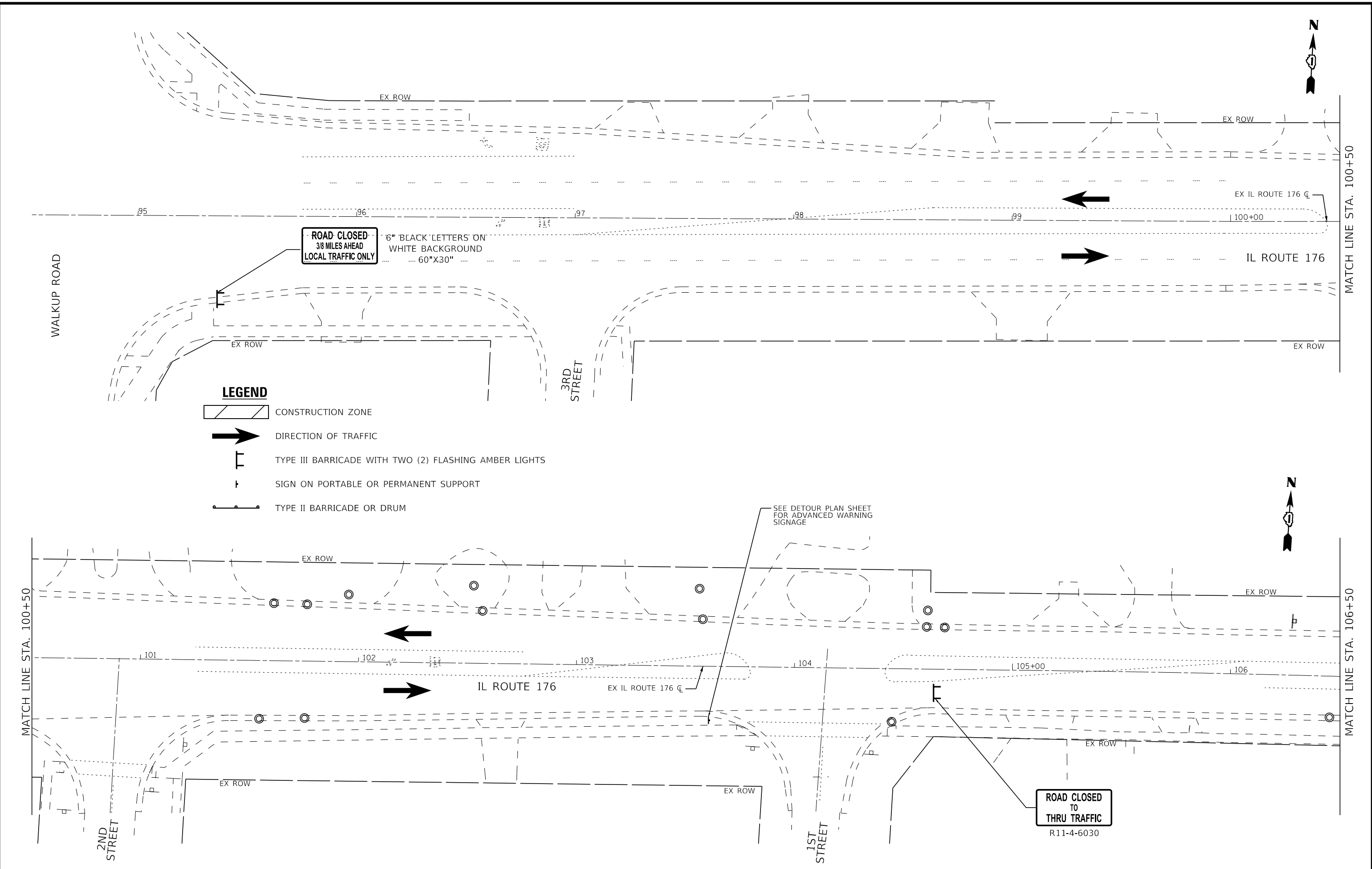
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 TYPICAL SECTIONS

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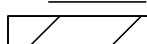



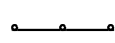
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	15-00124-00-PV	McHENRY	121	32
CONTRACT NO. 61H27				
ILLINOIS FED. AID PROJECT				



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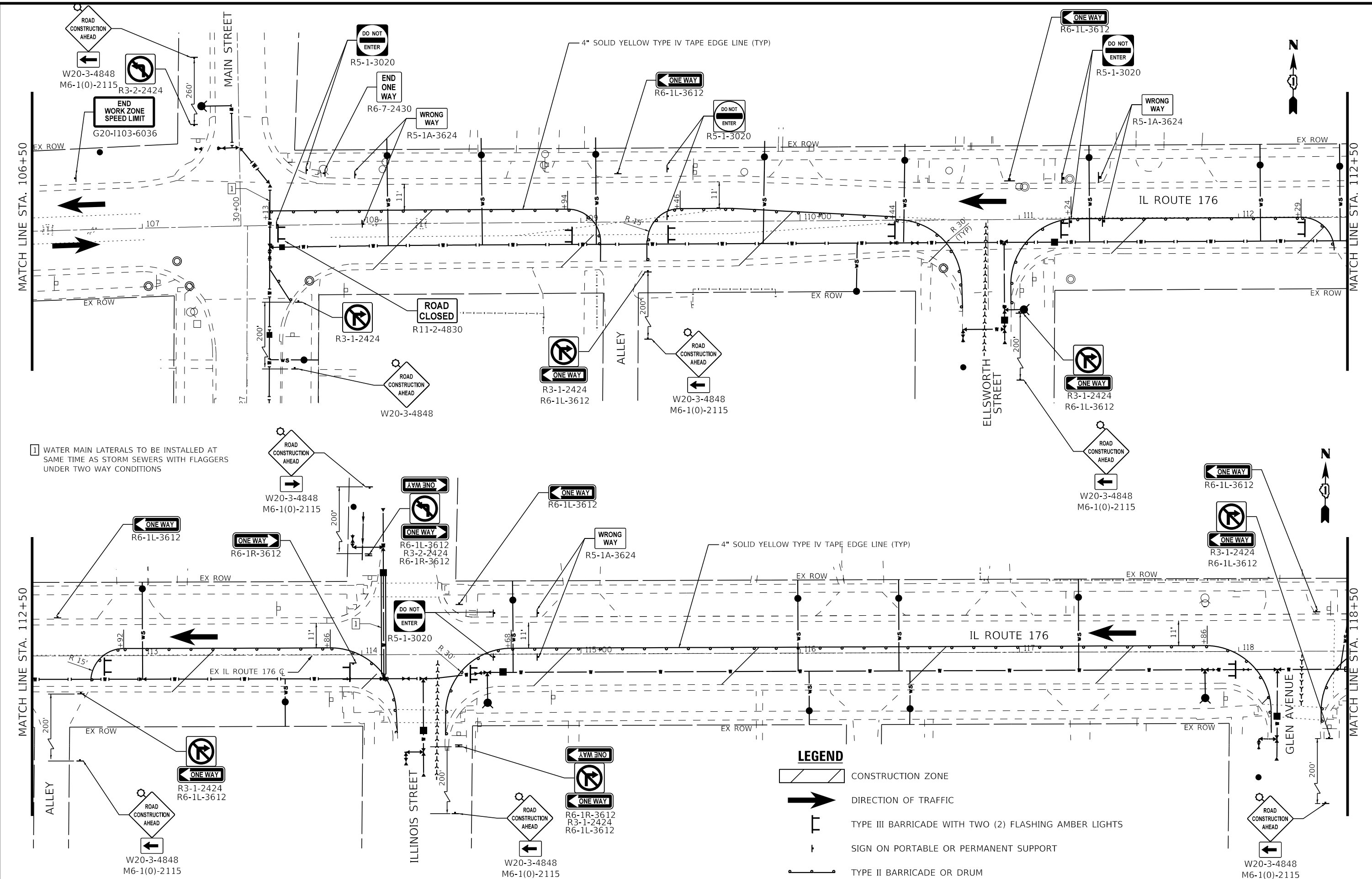


**LEGEND**

-  CONSTRUCTION ZONE
-  DIRECTION OF TRAFFIC
-  TYPE III BARRICADE WITH TWO (2) FLASHING AMBER LIGHTS
-  SIGN ON PORTABLE OR PERMANENT SUPPORT
-  TYPE II BARRICADE OR DRUM

	USER NAME = morning	DESIGNED - DJS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC IL 176			F.A.P. RTE. 335	SECTION 15-00124-00-PV	COUNTY MCHENRY	TOTAL SHEETS 121	SHEET NO. 33	
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	PLOT DATE = 9/8/2021	DATE - 09-08-2021	FILE - 181171_SHT_MOT_176_01.dgn			ILLINOIS FED. AID PROJECT							

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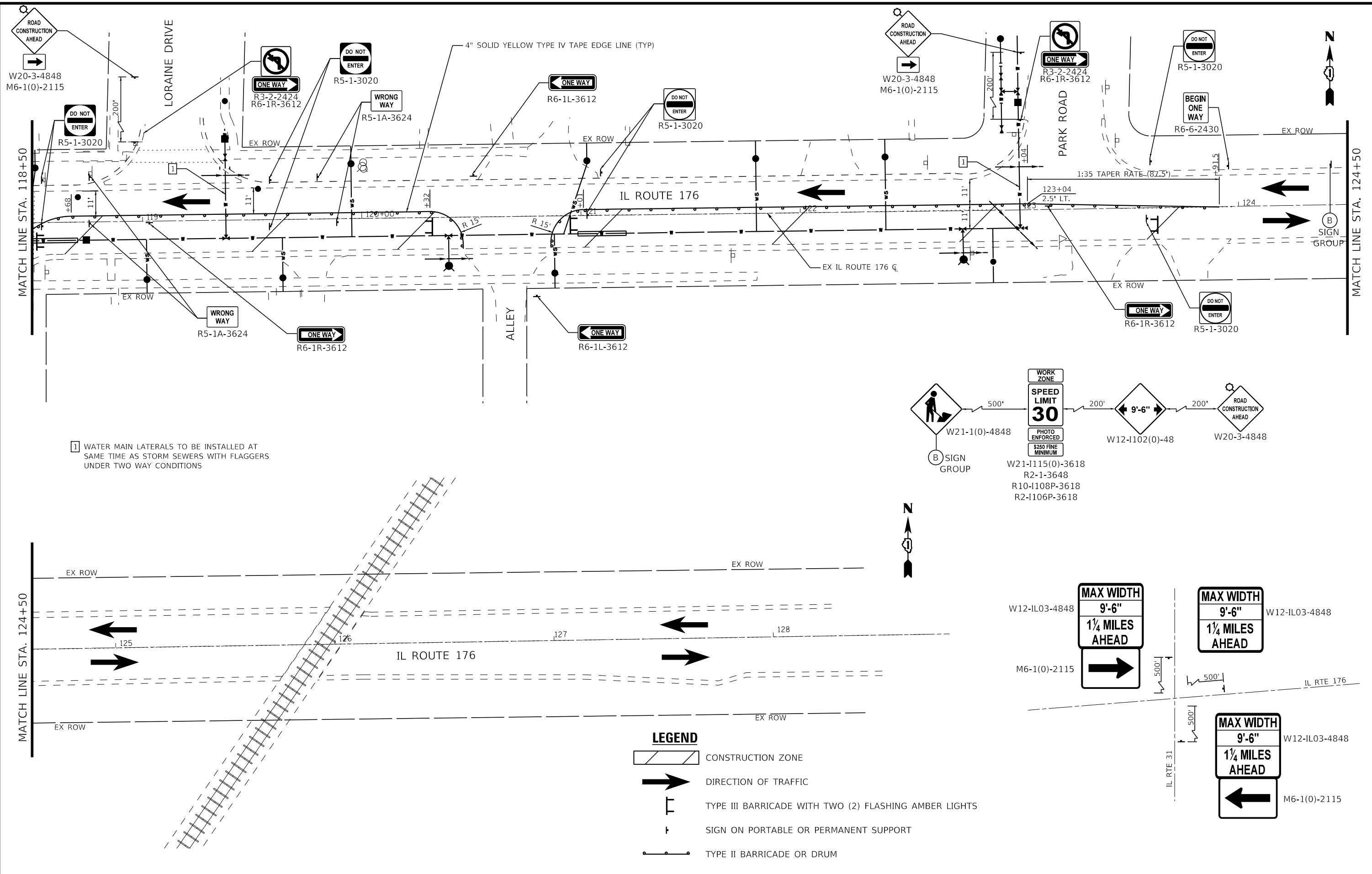


**LEGEND**

- CONSTRUCTION ZONE
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WITH TWO (2) FLASHING AMBER LIGHTS
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE II BARRICADE OR DRUM

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	SCALE: 1" = 20' SHEET 2 OF 3 SHEETS STA. TO STA.				

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM  
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1 WATER MAIN LATERALS TO BE INSTALLED AT SAME TIME AS STORM SEWERS WITH FLAGGERS UNDER TWO WAY CONDITIONS

- LEGEND**
- CONSTRUCTION ZONE
  - DIRECTION OF TRAFFIC
  - TYPE III BARRICADE WITH TWO (2) FLASHING AMBER LIGHTS
  - SIGN ON PORTABLE OR PERMANENT SUPPORT
  - TYPE II BARRICADE OR DRUM

<b>BAXTER &amp; WOODMAN</b> Consulting Engineers	USER NAME = morning	DESIGNED - DJS	REVISED -
		DRAWN - KAR	REVISED -
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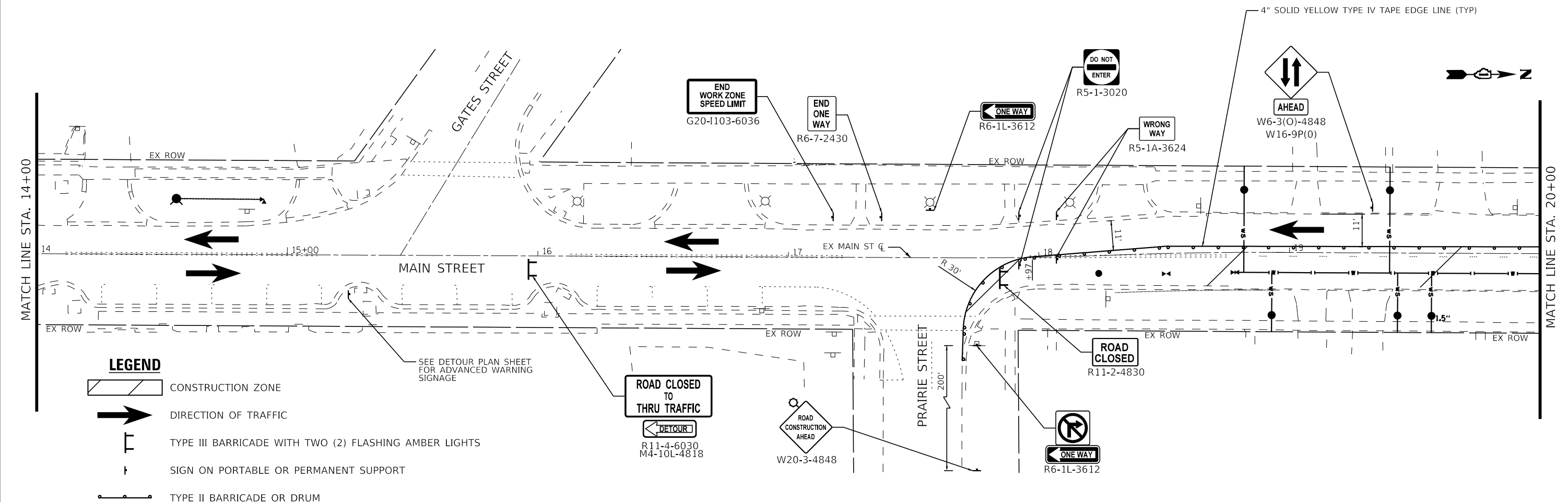
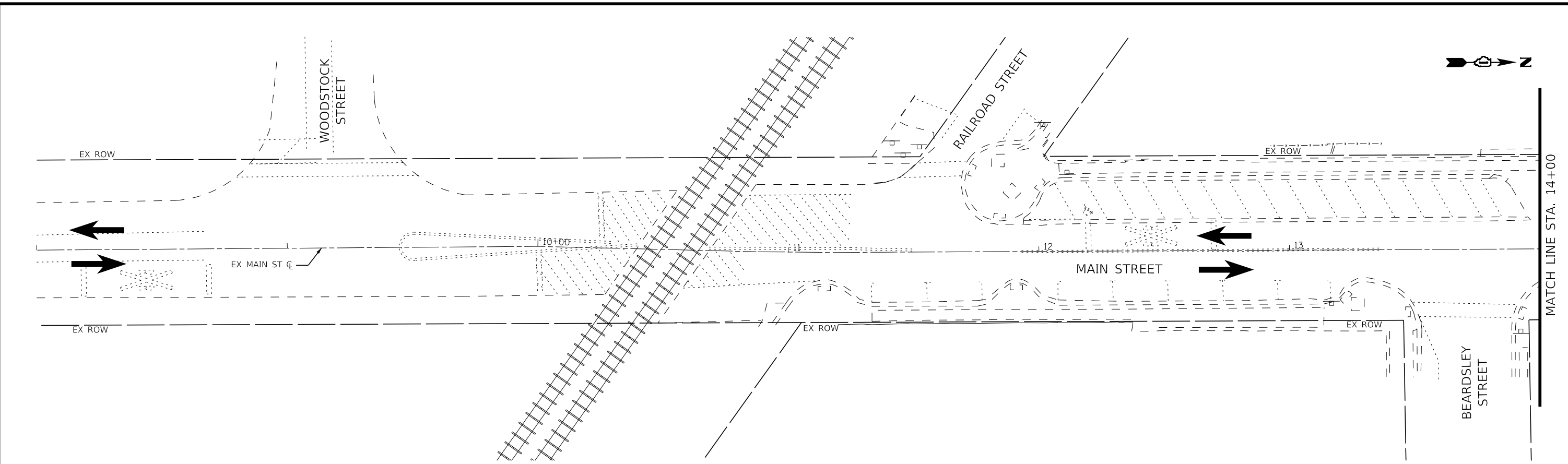
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC  
 IL 176

SCALE: 1" = 20' SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	15-00124-00-PV	MCHENRY	121	35
			CONTRACT NO. 61H27	
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM  
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- LEGEND**
- CONSTRUCTION ZONE
  - DIRECTION OF TRAFFIC
  - TYPE III BARRICADE WITH TWO (2) FLASHING AMBER LIGHTS
  - SIGN ON PORTABLE OR PERMANENT SUPPORT
  - TYPE II BARRICADE OR DRUM
- SEE DETOUR PLAN SHEET FOR ADVANCED WARNING SIGNAGE



USER NAME = mornjg	DESIGNED - DJS	REVISED -
	DRAWN - KAR	REVISED -
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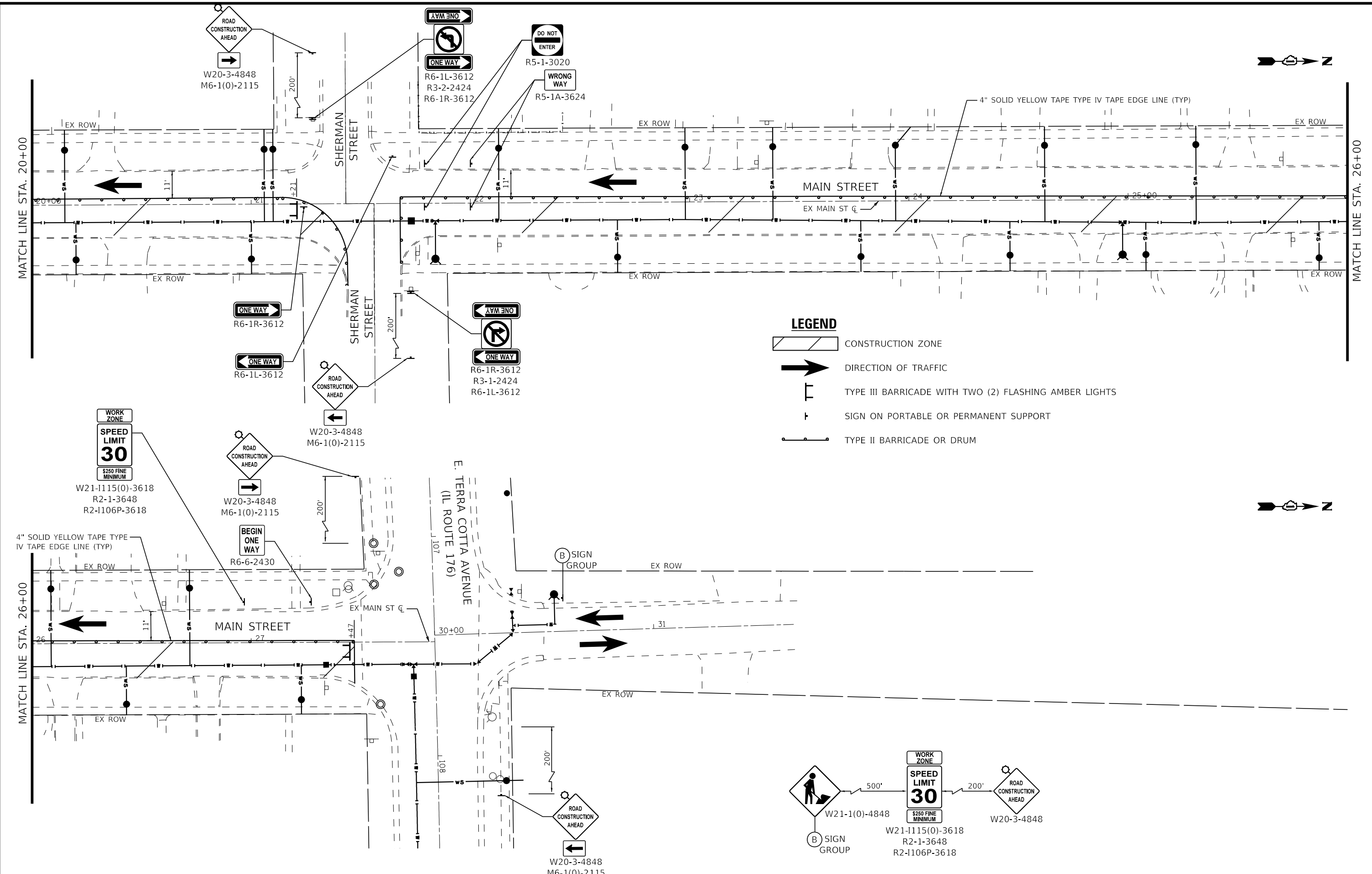
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC  
 MAIN STREET

SCALE: 1" = 20'    SHEET 1 OF 2 SHEETS    STA.    TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	15-00124-00-PV	MCHENRY	121	36
			CONTRACT NO. 61H27	
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM  
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**LEGEND**

- CONSTRUCTION ZONE
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WITH TWO (2) FLASHING AMBER LIGHTS
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE II BARRICADE OR DRUM

Diagram showing a sequence of signs: a 'ROAD CONSTRUCTION AHEAD' sign (W21-1(0)-4848) followed by a 'SPEED LIMIT 30' sign (W21-1115(0)-3618) with a '\$250 FINE MINIMUM' note, and another 'ROAD CONSTRUCTION AHEAD' sign (W20-3-4848). Distances of 500' and 200' are indicated between the signs.

<b>BAXTER &amp; WOODMAN</b> Consulting Engineers	USER NAME = morning	DESIGNED - DJS	REVISED -
		DRAWN - KAR	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED - AKS	REVISED -
	PLOT DATE = 9/8/2021	DATE - 09-08-2021	FILE - 181171_SHT_MOT_MAIN_02.dgn

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC  
 MAIN STREET

SCALE: 1" = 20'    SHEET 2 OF 2 SHEETS    STA.    TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	15-00124-00-PV	MCHENRY	121	37
CONTRACT NO. 61H27				
ILLINOIS FED. AID PROJECT				

**MAINTENANCE SCHEDULE**

1. PERIMETER EROSION BARRIER - AT A MINIMUM, THE CONTRACTOR SHALL INSPECT ALL PERIMETER EROSION BARRIER WEEKLY OR AFTER EACH ONE-HALF INCH OR GREATER RAINFALL EVENT. ANY REQUIRED REPAIRS SHALL BE MADE BY THE CONTRACTOR TO KEEP THE PERIMETER EROSION BARRIER FUNCTIONAL AS DESIGNED.
2. EROSION CONTROL BLANKET - AT A MINIMUM, THE CONTRACTOR SHALL INSPECT ALL EROSION BLANKET WEEKLY OR AFTER EACH ONE-HALF INCH OR GREATER RAINFALL EVENT. ANY REQUIRED REPAIRS SHALL BE MADE BY THE CONTRACTOR TO KEEP THE EROSION BLANKET FUNCTIONAL AS DESIGNED.
3. INLET FILTER - AT A MINIMUM, THE CONTRACTOR SHALL INSPECT ALL INLET FILTERS WEEKLY OR AFTER EACH ONE-HALF INCH OR GREATER RAINFALL EVENT. ANY REQUIRED REPAIRS SHALL BE MADE BY THE CONTRACTOR TO KEEP THE INLET FILTERS FUNCTIONAL AS DESIGNED.

**SUGGESTED CONSTRUCTION SEQUENCING**

1. INSTALL SEDIMENT CONTROL SYSTEMS.
2. STRIP AND STOCKPILE TOPSOIL AND BEGIN GRADING. TEMPORARY SEED AS REQUIRED.
3. COMPLETE ROADWAY IMPROVEMENTS THRU BINDER AND GRADING.
4. COMPLETE FINAL SURFACE, PAVEMENT MARKINGS, AND RESTORATION.
5. REMOVE EROSION CONTROL MEASURES AND RESTORE.

**GENERAL SOIL EROSION AND SEDIMENT CONTROL NOTES**

1. ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPAIRED AS NEEDED. THE CONTRACTOR SHALL BE ULTIMATELY RESPONSIBLE FOR MAINTENANCE AND REPAIR OF EROSION CONTROL MEASURES.
2. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE MCHENRY-LAKE COUNTY SWCD, ENGINEER, OR LOCAL AGENCY.
3. THE CONTRACTOR SHALL COMPLY WITH REQUIREMENTS FROM THE CITY, IDOT, CRYSTAL LAKE STORMWATER ORDINANCE AND THE MCHENRY-LAKE COUNTY SOIL AND WATER CONSERVATION DISTRICT.
4. CONCRETE WASHOUT FACILITIES SHALL BE INSTALLED. OPERATED AND MAINTAINED IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL.
5. ALL ADJACENT ROADWAYS MUST BE KEPT CLEAR OF DEBRIS, INSPECTED DAILY AND CLEANED WHEN NECESSARY.
6. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
7. FINAL ACCEPTANCE OF PROJECT WILL BE CONTINGENT ON RECORD DRAWING APPROVAL BY THE ENGINEER.
8. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO INFORM ANY SUB-CONTRACTOR(S) WHO MAY PERFORM WORK ON THIS PROJECT, OF THE REQUIREMENTS IN THE IMPLEMENTING AND MAINTAINING THESE EROSION CONTROL PLANS, PERMITS, AND ASSURE COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.
9. ALL SODDING, SALT TOLERANT ABUTTING MULCH RINGS SHALL BE PROVIDED WITH SPADED EDGE.

**MCHENRY COUNTY STANDARD SOIL EROSION AND SEDIMENT CONTROL NOTES**

1. CONTROL MEASURES SHALL MEET THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE ILLINOIS URBAN MANUAL (WWW.AISWCD.ORG/IUM) UNLESS STATED OTHERWISE.
2. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. AREAS OF THE DEVELOPMENT SITE THAT ARE NOT TO BE DISTURBED SHALL BE PROTECTED FROM CONSTRUCTION TRAFFIC OR OTHER DISTURBANCE UNTIL FINAL STABILIZATION IS ACHIEVED.
3. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, DEVELOPMENT SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES.
4. STABILIZATION BY SEEDING SHALL INCLUDE TOPSOIL PLACEMENT AND FERTILIZATION, AS NECESSARY.
5. NATIVE SEED MIXTURES SHALL INCLUDE RAPID-GROWING ANNUAL GRASSES OR SMALL GRAINS TO PROVIDE INITIAL, TEMPORARY SOIL STABILIZATION.
6. OFFSITE PROPERTY SHALL BE PROTECTED FROM EROSION SEDIMENTATION. VELOCITY DISSIPATION DEVICES SHALL BE PLACED AT CONCENTRATED DISCHARGE LOCATIONS AND ALONG THE LENGTH OF ANY OUTFALL CHANNEL, NECESSARY TO PREVENT EROSION.
7. SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE DISTURBANCE OF TRIBUTARY AREAS.
8. STABILIZATION OF DISTURBED AREAS SHALL BE INITIATED IMMEDIATELY WHENEVER ANY CLEARING, GRADING, EXCAVATING OR OTHER EARTH DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE DEVELOPMENT SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. STABILIZATION OF DISTURBED AREAS SHALL BE INITIATED WITHIN 1 WORKING DAY OF PERMANENT OR TEMPORARY CESSATION OF EARTH DISTURBING ACTIVITIES AND SHALL BE COMPLETED SOON AS POSSIBLE, BUT NOT LATER THAN 14 CALENDAR DAYS FROM THE INITIATION OF STABILIZATION WORK IN AN AREA. EXCEPTIONS OF THESE TIME FRAMES ARE SPECIFIED BELOW:
  - A. WHERE THE INITIATION OF STABILIZATION MEASURES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE; AND
  - B. IN AREAS WHERE CONSTRUCTION ACTIVITY HAS TEMPORARILY CEASED AND WILL RESUME AFTER 14 DAYS, A TEMPORARY STABILIZATION METHOD MAY BE USED.
9. DISTURBANCE OF STEEP SLOPES SHALL BE MINIMIZED. AREAS OR EMBANKMENTS HAVING SLOPES STEEPER THAN 3:1 SHALL BE STABILIZED WITH STAKED IN PLACE SOD, EROSION CONTROL BLANKET IN COMBINATION WITH SEEDING, OR AN EQUIVALENT CONTROL MEASURE.
10. PERIMETER CONTROL MEASURES SHALL BE PROVIDED DOWNSLOPE AND PERPENDICULAR TO THE FLOW OF RUNOFF FROM DISTURBED AREAS, WHERE THE TRIBUTARY AREA IS GREATER THAN 5,000 SQUARE FEET, AND WHERE RUNOFF WILL FLOW IN A SHEET FLOW MANNER. PERIMETER EROSION CONTROL SHALL ALSO BE PROVIDED AT THE BASE OF SOIL STOCKPILES.
11. THE STORMWATER MANAGEMENT SYSTEM SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION DOWNSLOPE FROM DISTURBED AREAS. INLET PROTECTION THAT REDUCES SEDIMENT LOADING, WHILE ALLOWING RUNOFF TO ENTER THE INLET SHALL BE REQUIRED FOR ALL STORM SEWERS. CHECK DAMS, OR AN EQUIVALENT CONTROL MEASURE, SHALL BE REQUIRED FOR ALL CHANNELS. FILTER FABRIC INLET PROTECTION AND STRAW BALE DITCH CHECKS ARE NOT ACCEPTABLE CONTROL MEASURES.
12. IF DEWATERING SERVICES ARE USED, DISCHARGES SHALL BE ROUTED THROUGH AND EFFECTIVE SEDIMENT CONTROL MEASURE (E.G., SEDIMENT TRAP OR AN EQUIVALENT CONTROL MEASURE). THE ENFORCEMENT OFFICER SHALL BE NOTIFIED PRIOR TO THE COMMENCEMENT OF DEWATERING ACTIVITIES.
13. ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL STABILIZATION OF THE DEVELOPMENT SITE IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NECESSARY. TRAPPED SEDIMENT SHALL BE REMOVED AND DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED.
14. STOCKPILED SOIL AND MATERIALS SHALL BE REMOVED FROM FLOOD HAZARD AREAS AT THE END OF EACH WORK DAY. SOIL AND MATERIALS STOCKPILED IN IWMC OR BUFFER AREAS SHALL BE PLACED ON TIMBER MATS, OR AN EQUIVALENT CONTROL MEASURE.
15. EFFECTIVE CONTROL MEASURES SHALL BE UTILIZED TO MINIMIZE THE DISCHARGE OF POLLUTANTS FROM THE DEVELOPMENT SITE. AT A MINIMUM, CONTROL MEASURES SHALL BE IMPLEMENTED IN ORDER TO:
  - A. MINIMIZE THE DISCHARGE OR POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATER; AND
  - B. MINIMIZE THE EXPOSURE OF BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, VEHICLE FLUIDS, SANITARY WASTE, AND OTHER MATERIALS PRESENT ON THE DEVELOPMENT SITE TO PRECIPITATION AND TO STORMWATER.
16. ADEQUATE RECEPTACLES SHALL BE PROVIDED FOR THE DEPOSITING OF ALL CONSTRUCTION MATERIAL DEBRIS GENERATED DURING THE DEVELOPMENT PROCESS. THE APPLICANT SHALL NOT CAUSE OR PERMIT THE DUMPING, DROPPING, THROWING, DISCARDING OR LEAVING OF CONSTRUCTION MATERIAL DEBRIS UPON OR INTO ANY DEVELOPMENT SITE, CHANNEL, OR IWMC. THE DEVELOPMENT SITE SHALL BE MAINTAINED FREE OF CONSTRUCTION MATERIAL DEBRIS.
17. THE ENFORCEMENT OFFICER MAY REQUIRE ADDITIONAL OR ALTERNATE SOIL EROSION AND SEDIMENT CONTROL MEASURES, BASED ON DEVELOPMENT SITE SPECIFIC CONSIDERATIONS AND THE EFFECTIVENESS OF THE INSTALLED CONTROL MEASURES.

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM  
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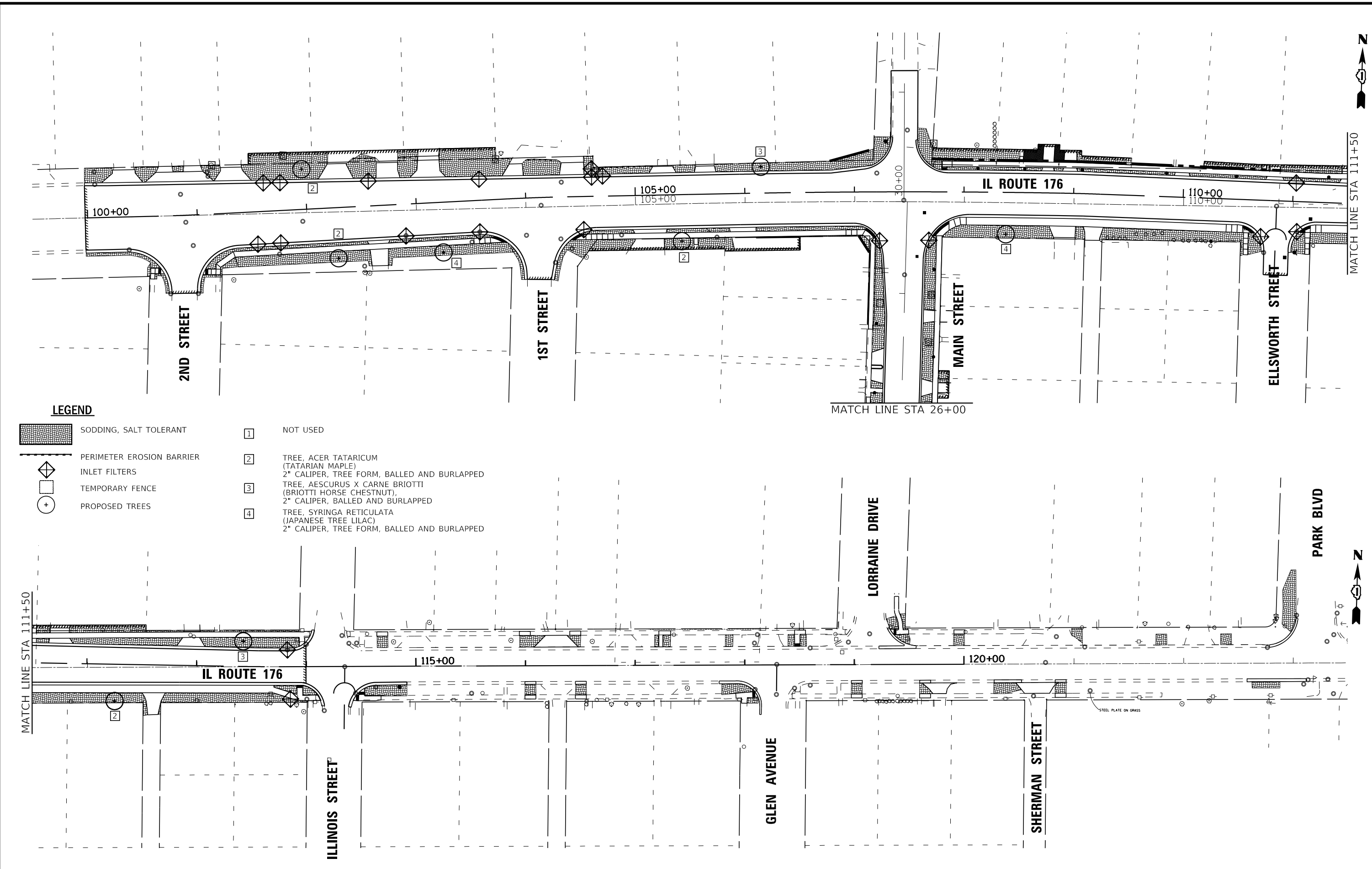
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

<p align="center"><b>EROSION CONTROL PLAN NOTES</b></p>			
SCALE: NONE	SHEET 1	OF 3 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	15-00124-00-PV	MCHENRY	121	38
CONTRACT NO. 61H27			ILLINOIS FED. AID PROJECT	



STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM  
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**LEGEND**

- SODDING, SALT TOLERANT
- PERIMETER EROSION BARRIER
- INLET FILTERS
- TEMPORARY FENCE
- PROPOSED TREES
- NOT USED
- TREE, ACER TATARICUM (TATARIAN MAPLE)  
2" CALIPER, TREE FORM, BALLED AND BURLAPPED
- TREE, AESCURUS X CARNE BRIOTTI (BRIOTTI HORSE CHESTNUT),  
2" CALIPER, BALLED AND BURLAPPED
- TREE, SYRINGA RETICULATA (JAPANESE TREE LILAC)  
2" CALIPER, TREE FORM, BALLED AND BURLAPPED

MATCH LINE STA 111+50



<b>BAXTER &amp; WOODMAN</b> Consulting Engineers	USER NAME = asramek	DESIGNED - DJS	REVISED -
	PLOT SCALE = 80,0000' / in.	DRAWN - KAR	REVISED -
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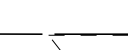




STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

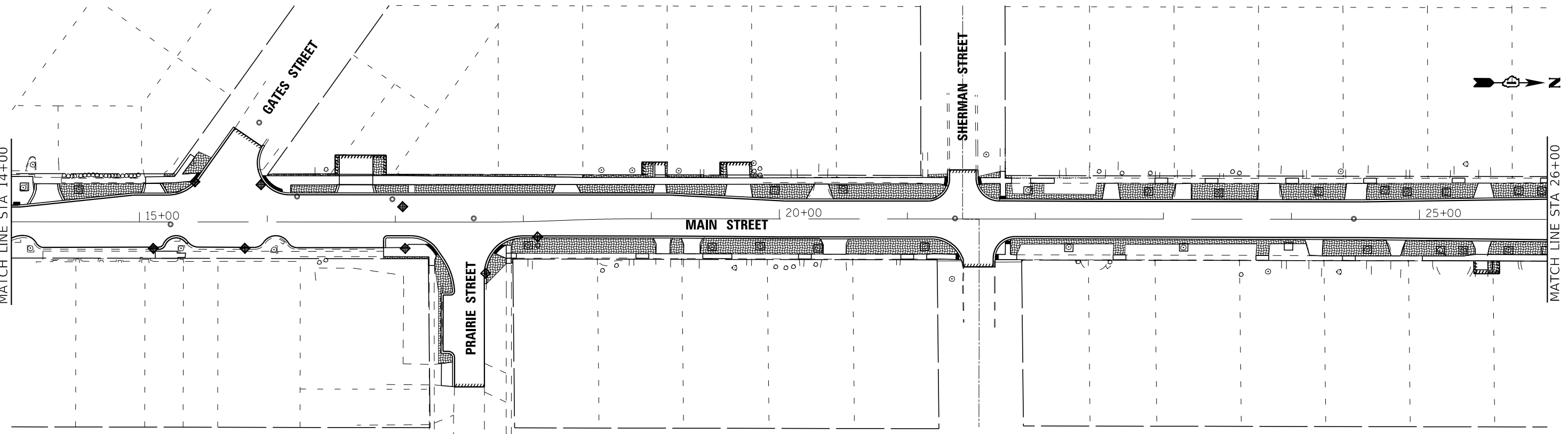
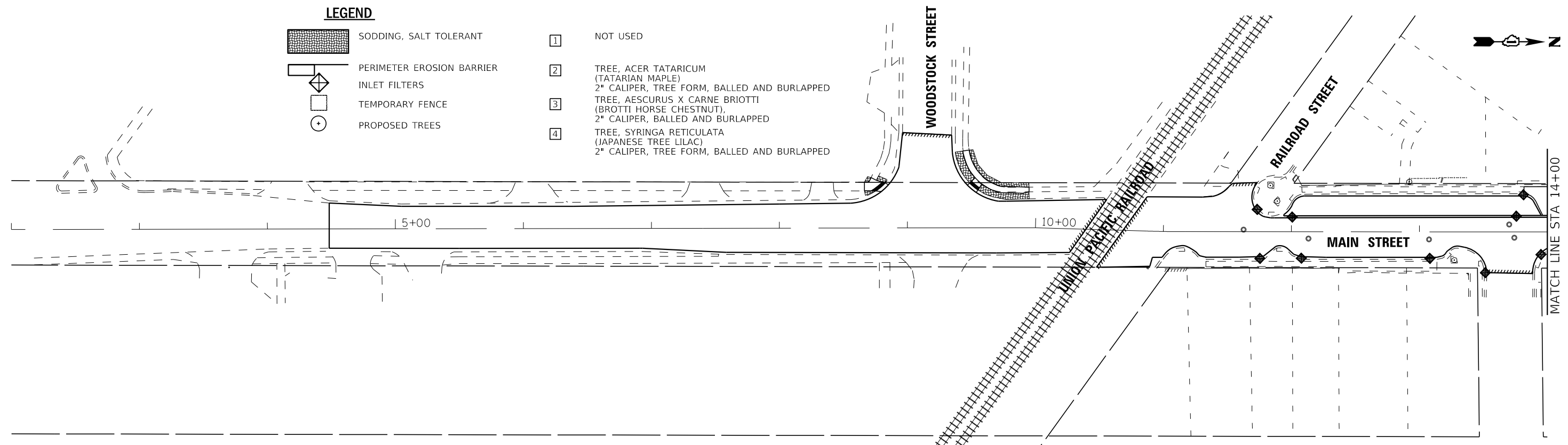
**EROSION CONTROL PLAN**  
**IL ROUTE 176**

SCALE: 1" = 40' SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	15-00124-00-PV	MCHENRY	121	39
CONTRACT NO. 61H27				
ILLINOIS FED. AID PROJECT				

**LEGEND**

-  SODDING, SALT TOLERANT
-  PERIMETER EROSION BARRIER
-  INLET FILTERS
-  TEMPORARY FENCE
-  PROPOSED TREES
-  1 NOT USED
-  2 TREE, ACER TATARICUM (TATARIAN MAPLE)  
2" CALIPER, TREE FORM, BALLED AND BURLAPPED
-  3 TREE, AESCULUS X CARNE BRIOTTI (BROTTI HORSE CHESTNUT),  
2" CALIPER, BALLED AND BURLAPPED
-  4 TREE, SYRINGA RETICULATA (JAPANESE TREE LILAC)  
2" CALIPER, TREE FORM, BALLED AND BURLAPPED



STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM  
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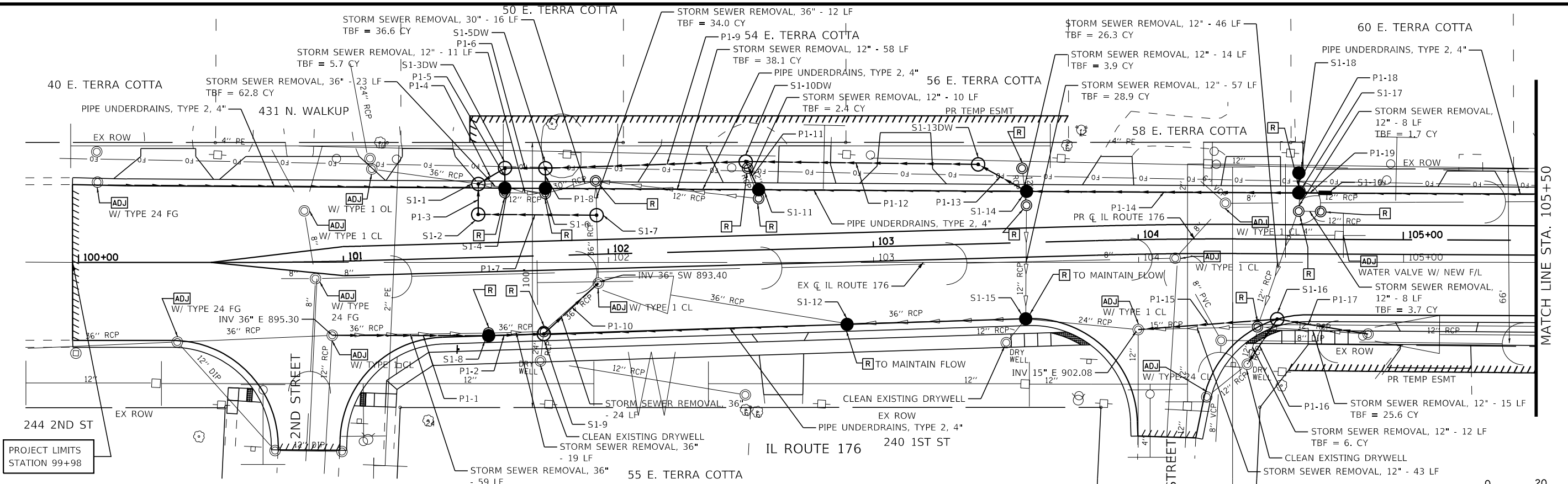
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	DATE - 08-26-2021	FILE - 181171_ss2-sht-EROS2.dgn

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

**EROSION CONTROL PLAN**  
**MAIN STREET**

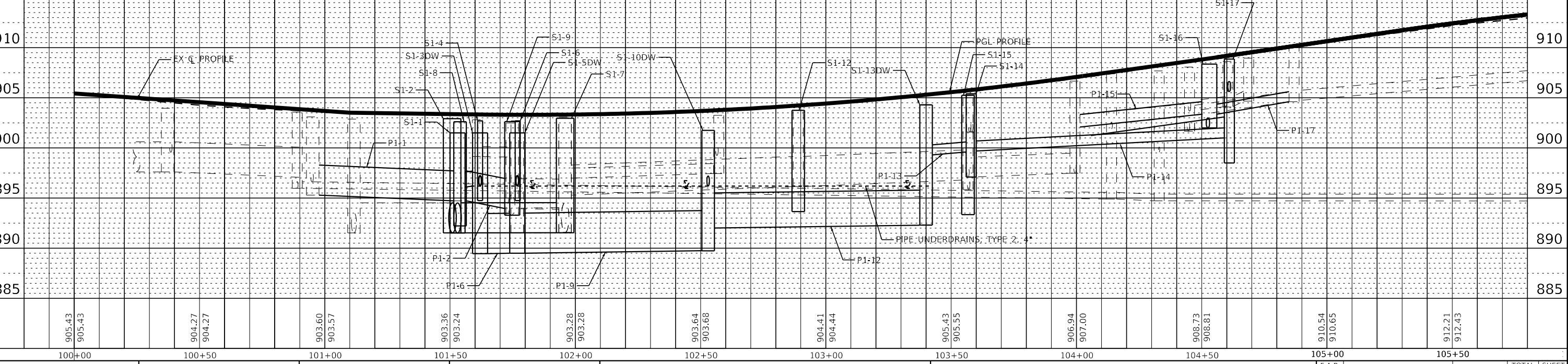
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	15-00124-00-PV	MCHENRY	121	40
CONTRACT NO. 61H27				
ILLINOIS FED. AID PROJECT				



STRUCTURE NO.	STA	OFFSET FT	STRUCTURE TYPE	RIM/EOP	INVERTS
S1-1	101+83	27.7 LT	MANHOLES, TYPE A, 6-DIAMETER, TYPE 1 FRAME, CLOSED LID	901.50	891.52 EX 36" W, 896.10 18" NE, 891.52 36" S
S1-2	101+61	16.2 LT	MANHOLES, TYPE A, 7-DIAMETER, TYPE 1 FRAME, CLOSED LID	902.92	891.53 36" E, 891.53 36" E
S1-3 DW	101+62	33.5 LT	MANHOLES, TYPE A, 6-DIAMETER, TYPE 1 FRAME, CLOSED LID, SPECIAL	901.60	896.20 18" SW, 889.46 48" E, 896.20 12" S
S1-4	101+82	25.9 LT	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	902.70	896.25 12" N
S1-5 DW	101+77	33.0 LT	MANHOLES, TYPE A, 6-DIAMETER, TYPE 1 FRAME, CLOSED LID, SPECIAL	901.60	889.50 48" W, 889.50 48" E, 896.20 12" S
S1-6	101+77	24.6 LT	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	902.70	896.25 12" N
S1-7	101+96	14.8 LT	MANHOLES, TYPE A, 7-DIAMETER, TYPE 1 FRAME, CLOSED LID	902.96	891.54 36" W, 891.54 EX 36" S
S1-8	101+54	29.6 RT	CATCH BASINS, TYPE A, 6-DIAMETER, TYPE 24 FRAME AND GRATE	902.62	894.72 36" E, 894.72 36" W
S1-9	101+75	29.5 RT	MANHOLES, TYPE A, 6-DIAMETER, TYPE 24 FRAME AND GRATE	902.63	893.94 36" NE, 893.29 EX 24" S, 893.94 36" W
S1-10 DW	102+53	33.5 LT	MANHOLES, TYPE A, 6-DIAMETER, TYPE 1 FRAME, CLOSED LID, SPECIAL	901.75	889.75 48" W, 892.00 42" E, 896.20 12" SE
S1-11	102+57	22.7 LT	CATCH BASINS, TYPE A, 4-DIAMETER, TYPE 24 FRAME AND GRATE	903.70	896.25 12" NW
S1-12	102+89	29.0 RT	CATCH BASINS, TYPE A, 5-DIAMETER, TYPE 24 FRAME AND GRATE	903.80	896.16 EX 36" NW, 896.16 EX 36" E
S1-13 DW	103+40	30.0 LT	MANHOLES, TYPE A, 5-DIAMETER, TYPE 1 FRAME, CLOSED LID, SPECIAL	904.30	892.30 42" W, 899.30 18" SE
S1-14	103+58	19.3 LT	CATCH BASINS, TYPE A, 4-DIAMETER, TYPE 24 FRAME AND GRATE	905.40	899.00 18" NW, 899.70 12" E
S1-15	103+57	28.8 RT	CATCH BASINS, TYPE A, 5-DIAMETER, TYPE 24 FRAME AND GRATE	905.25	896.75 EX 36" W, 896.85 EX 12" SW, 897.05 EX 24" E
S1-16	104+53	30.2 RT	MANHOLES, TYPE A, 6-DIAMETER, TYPE 24 FRAME AND GRATE	908.36	903.37 15" W, 902.00 12" SW, 903.37 12" E
S1-17	104+61	17.5 LT	CATCH BASINS, TYPE A, 4-DIAMETER, TYPE 24 FRAME AND GRATE	908.86	901.00 12" W, 904.37 12" E, 905.60 12" N
S1-18	104+61	25.1 LT	CATCH BASINS, TYPE C, TYPE 8 GRATE	909.00	905.70 12" SW
S1-19	104+70	17.5 LT	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	909.23	904.45 12" W

PIPE NO.	FROM	TO	PIPE TYPE	LENGTH FT	SLOPE %	TRENCH BACKFILL CU YD
P1-1	ex MH1-2	S1-8	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 3/8"	59	0.98%	81.0
P1-2	S1-3	S1-9	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 3/8"	21	3.71%	31.2
P1-3	S1-3	S1-1	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 3/8"	11	0.39%	22.8
P1-4	S1-3 DW	S1-1	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 1/8"	12	0.83%	1.6
P1-5	S1-4	S1-3 DW	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 1/2"	8	0.62%	4.4
P1-6	S1-5 DW	S1-3 DW	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 1/2"	15	0.33%	0.0
P1-7	S1-7	S1-2	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 3/8"	45	0.02%	101.3
P1-8	S1-6	S1-4 DW	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 1/2"	8	0.62%	4.4
P1-9	S1-10 DW	S1-4 DW	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 1/2"	76	0.33%	74.3
P1-10	S1-9	ex MH1-3	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 3/8"	28	0.14%	45.7
P1-11	S1-11	S1-10 DW	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 1/2"	12	0.42%	1.9
P1-12	S1-13 DW	S1-10 DW	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 1/2"	88	0.34%	107.2
P1-13	S1-14	S1-13 DW	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 1/8"	21	1.43%	2.7
P1-14	S1-17	S1-14	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 1/2"	103	1.26%	65.3
P1-15	S1-16	ex MH1-4	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 1/8"	53	2.42%	23.8
P1-16	S1-16	ex DW1-3	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 1/2"	20	0.50%	9.7
P1-17	ex MH1-5	S1-18	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 1/2"	35	3.80%	16.8
P1-18	S1-18	S1-17	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	6	1.25%	2.1
P1-19	S1-19	S1-17	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	10	0.80%	3.9



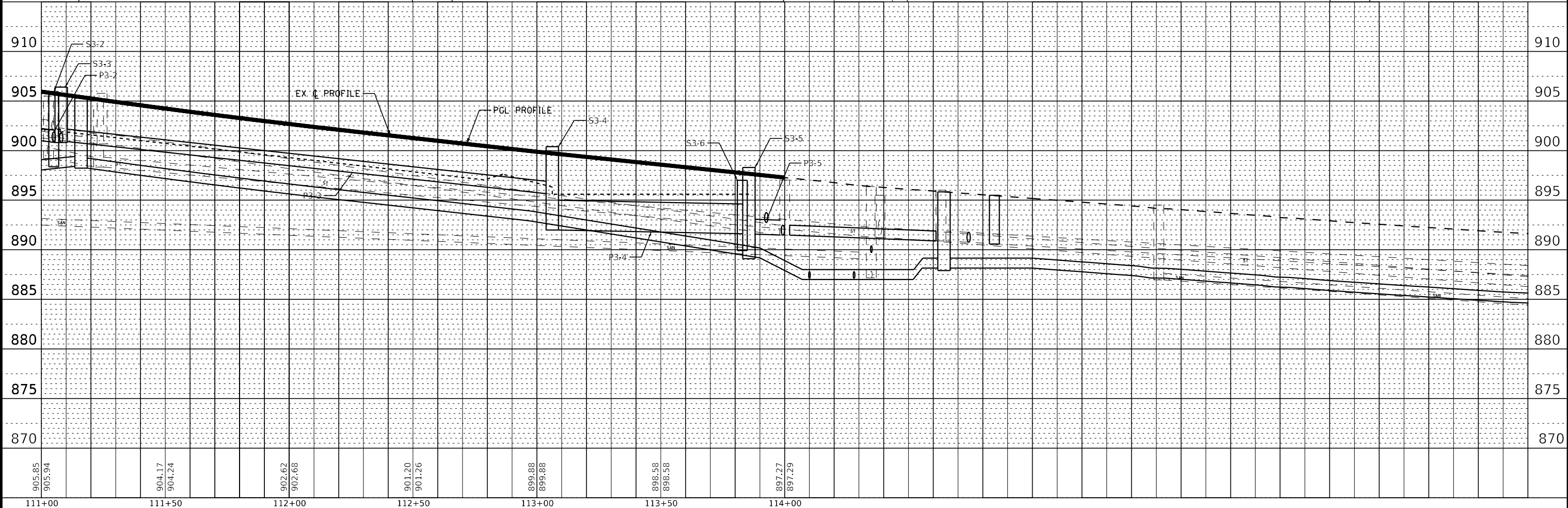
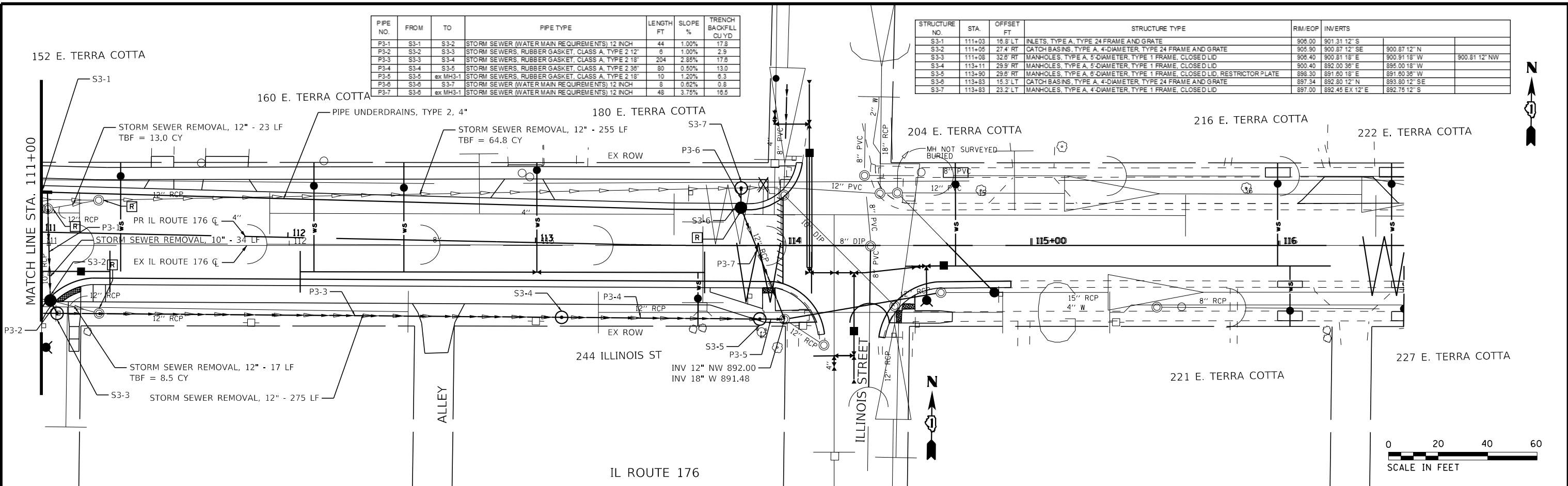
<b>BAXTER &amp; WOODMAN</b> Consulting Engineers	USER NAME = asramek	DESIGNED - AKS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE AND UTILITIES IL ROUTE 176	F.A.P. R.T.E. = 335	SECTION = 15-00124-00-PV	COUNTY = MCHENRY	TOTAL SHEETS = 121	SHEET = 41
	PLOT SCALE = 40.0000' / in.	CHECKED - DJS	REVISED -			SCALE: 1" = 20'	SHEET 1 OF 3 SHEETS	STA. 100+00 TO STA. 105+50	ILLINOIS FED. AID PROJECT	CONTRACT NO. 61H27
	PLOT DATE = 8/27/2021	DATE = 08-26-2021	FILE = 181171_ss2-sht-DU-IL176-1.dgn							

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM  
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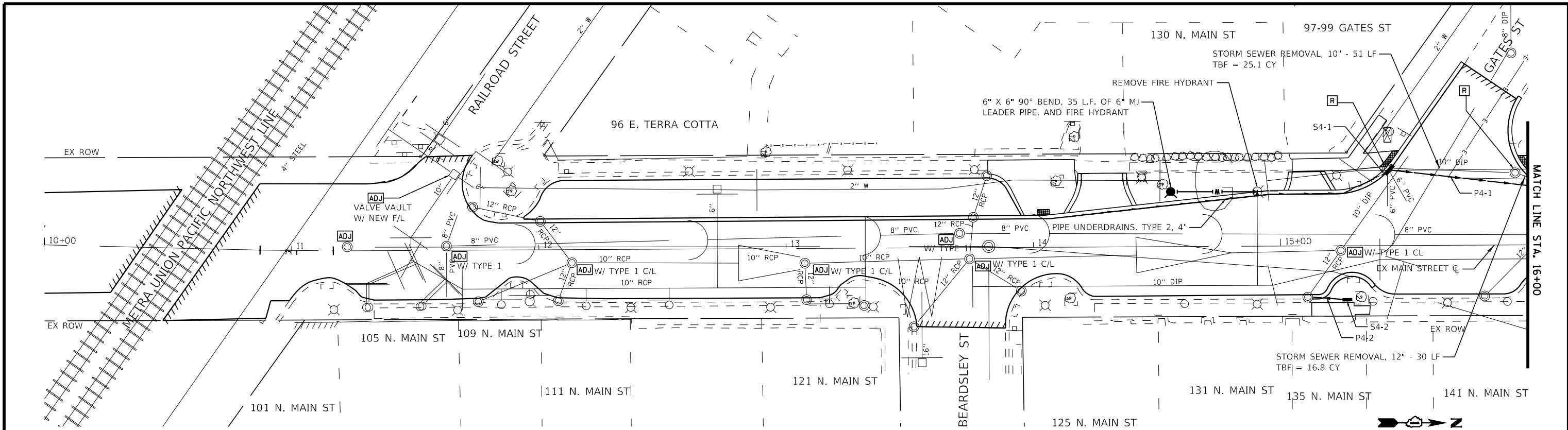
PIPE NO.	FROM	TO	PIPE TYPE	LENGTH FT	SLOPE %	TRENCH BACKFILL CU YD
P3-1	S3-1	S3-2	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	44	1.00%	17.8
P3-2	S3-2	S3-3	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 12"	8	1.00%	2.9
P3-3	S3-3	S3-4	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 18"	204	2.88%	17.6
P3-4	S3-4	S3-5	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 36"	80	0.50%	13.0
P3-5	S3-5	ex MH3-1	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 18"	10	1.20%	6.3
P3-6	S3-6	S3-7	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	8	0.62%	0.8
P3-7	S3-6	ex MH3-1	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	48	3.75%	16.5

STRUCTURE NO.	STA	OFFSET FT	STRUCTURE TYPE	RIM/EOP	INVERTS
S3-1	111+03	16.8' LT	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	908.00	901.31 12' S
S3-2	111+05	27.4' RT	CATCH BASINS, TYPE A, 4-DIAMETER, TYPE 24 FRAME AND GRATE	905.90	900.87 12' SE 900.87 12' N
S3-3	111+08	32.5' RT	MANHOLES, TYPE A, 5-DIAMETER, TYPE 1 FRAME, CLOSED LID	905.40	900.81 15' E 900.91 15' W 900.81 12' NW
S3-4	113+11	29.9' RT	MANHOLES, TYPE A, 5-DIAMETER, TYPE 1 FRAME, CLOSED LID	900.40	895.00 18' W
S3-5	113+30	29.8' RT	MANHOLES, TYPE A, 8-DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE	898.30	891.80 18' E 891.80 28' W
S3-6	113+83	15.3' LT	CATCH BASINS, TYPE A, 4-DIAMETER, TYPE 24 FRAME AND GRATE	897.34	892.80 12' N 893.80 12' SE
S3-7	113+83	23.2' LT	MANHOLES, TYPE A, 4-DIAMETER, TYPE 1 FRAME, CLOSED LID	897.00	892.45 EX 12' E 892.76 12' S



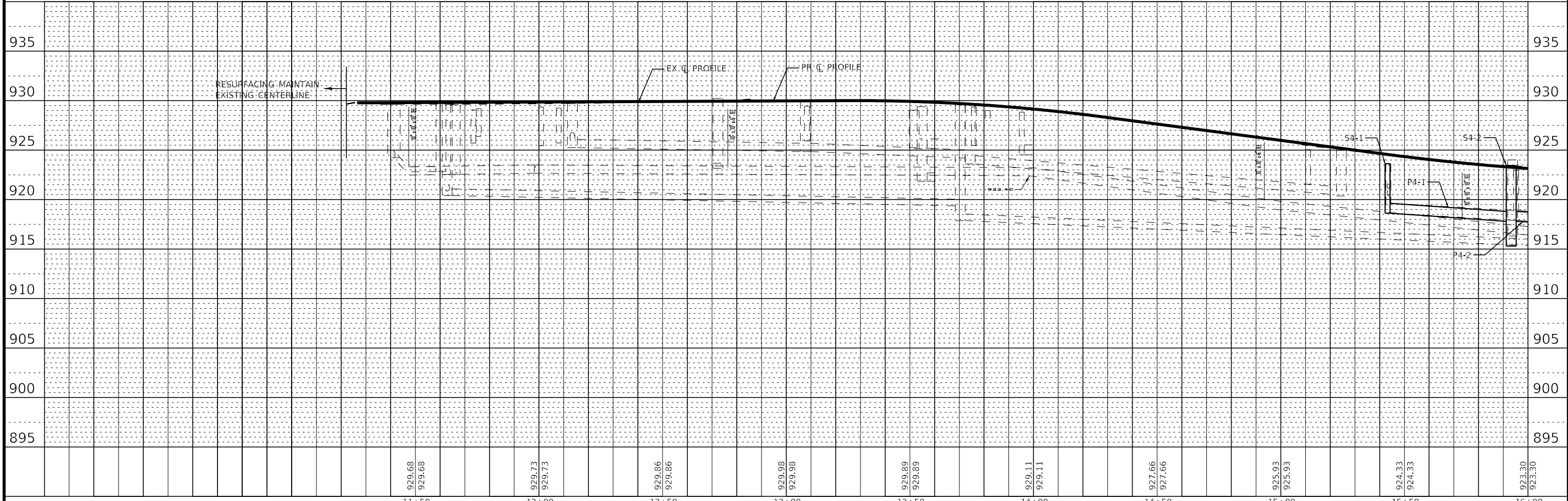
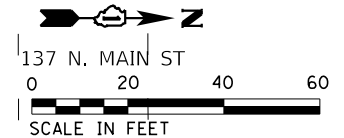
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	PLOT DATE = 8/27/2021	DATE = 08-26-2021	FILE = 181171_ss2-sht-DU-IL176-3.dgn		SCALE: 1" = 20'	SHEET 3 OF 3 SHEETS	STA. 111+00 TO STA. 116+50				



STRUCTURE NO.	STA.	OFFSET FT	STRUCTURE TYPE	RIM/EOP	INVERTS
S4-1	15+43	31.3 LT	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	923.62	918.82 12" NW
S4-2	15+27	21.2 RT	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	924.80	921.80 12" SW

PIPE NO.	FROM	TO	PIPE TYPE	LENGTH FT	SLOPE %	TRENCH BACKFILL CU YD
P4-1	S4-1	S5-5	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 12"	64	1.50%	31.3
P4-2	S4-2	EX	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 12"	14	1.50%	3.5



STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM \Pictor\adef-sw\_Default.plt  
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PLOT SCALE = 40,0000' / in.	DRAWN - KAR	REVISED -
PLOT DATE = 8/27/2021	CHECKED - DJS	REVISED -
	DATE - 08-26-2021	FILE 181171-ss2-sht-DU-Main-2.dgn

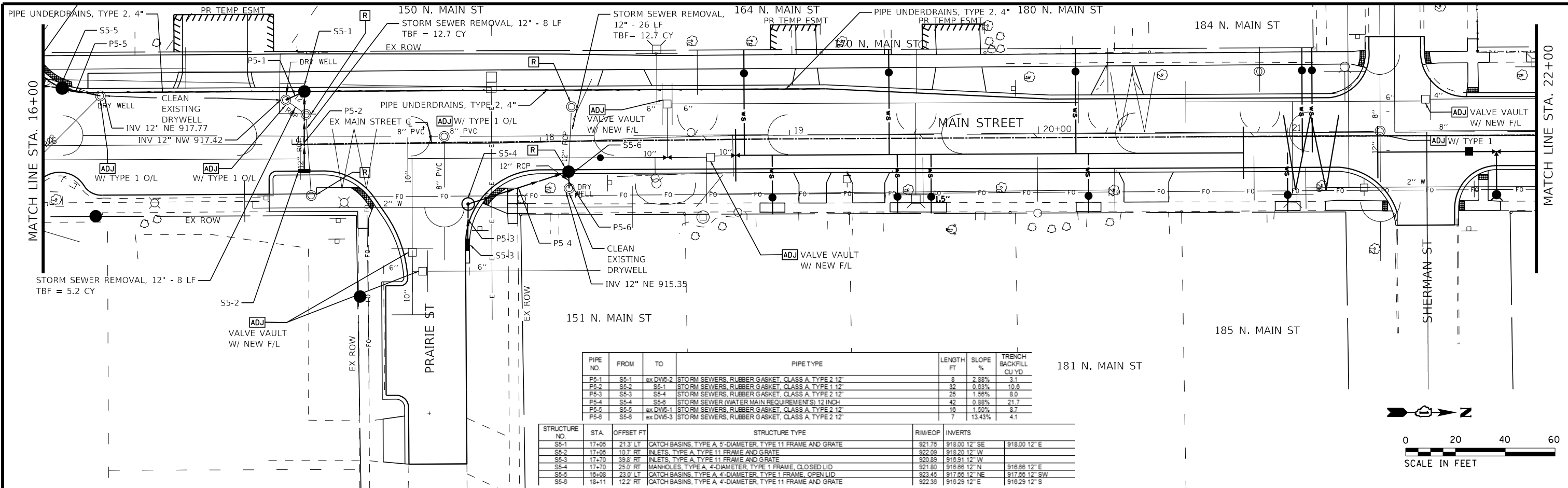
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITIES  
 MAIN STREET

F.A.P. RTE. 335	SECTION 15-00124-00-PV	COUNTY MCHENRY	TOTAL SHEETS 121	SHEET NO. 44
CONTRACT NO. 61H27			ILLINOIS FED. AID PROJECT	

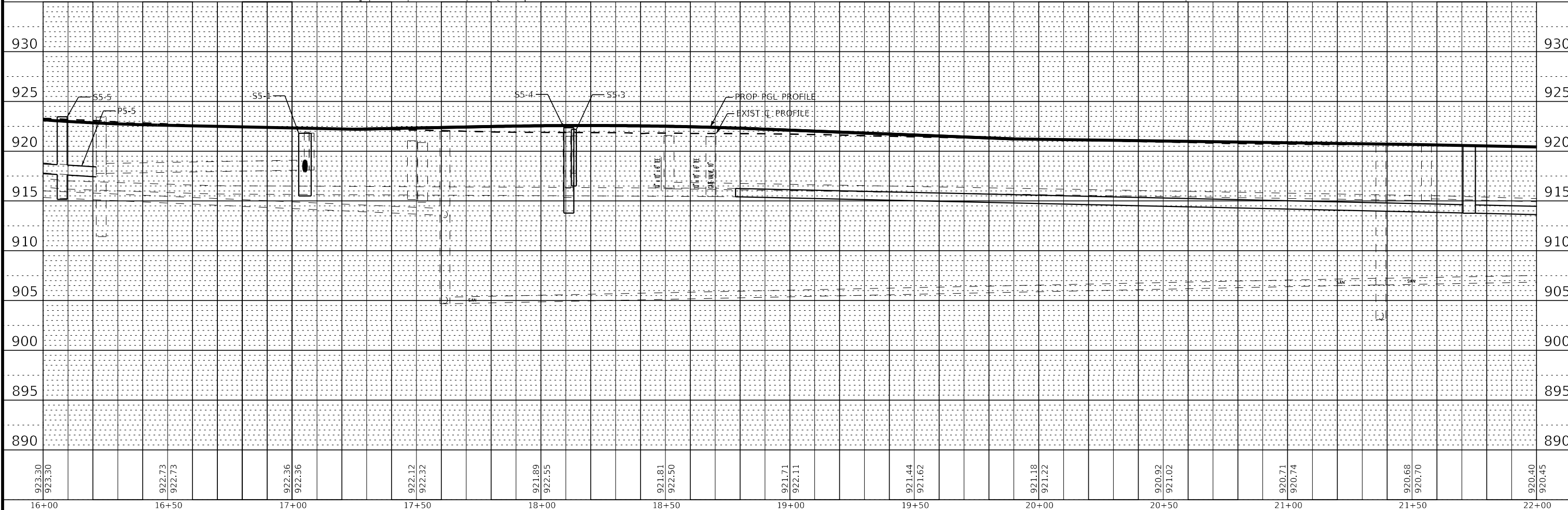
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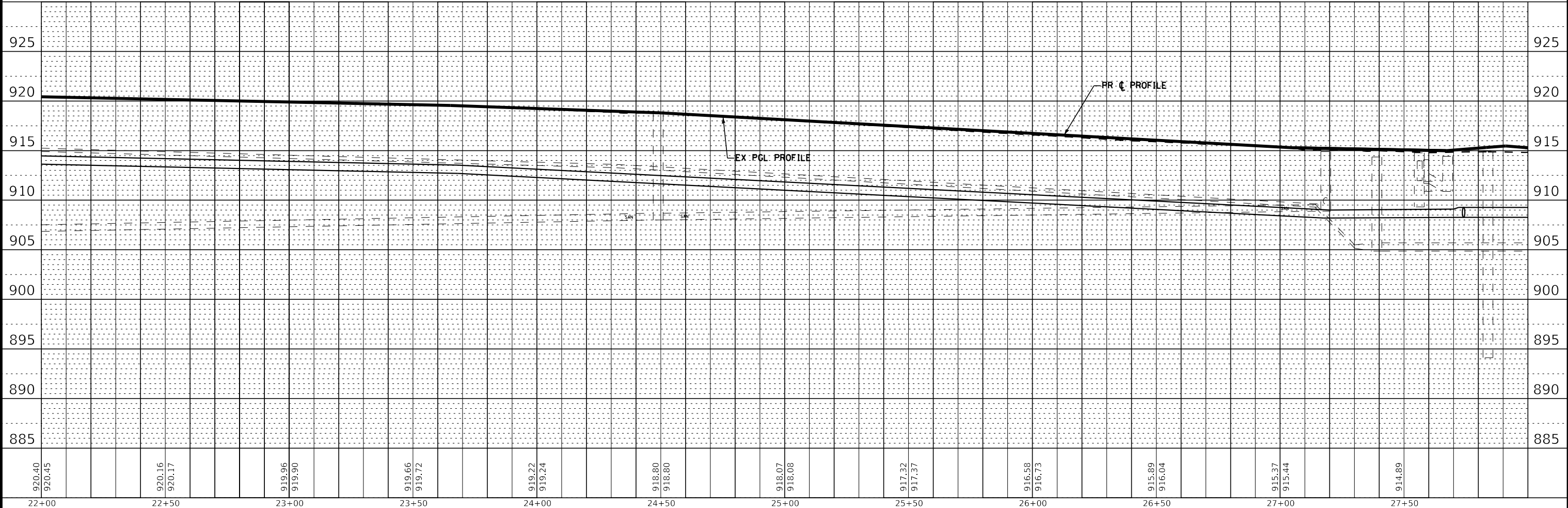
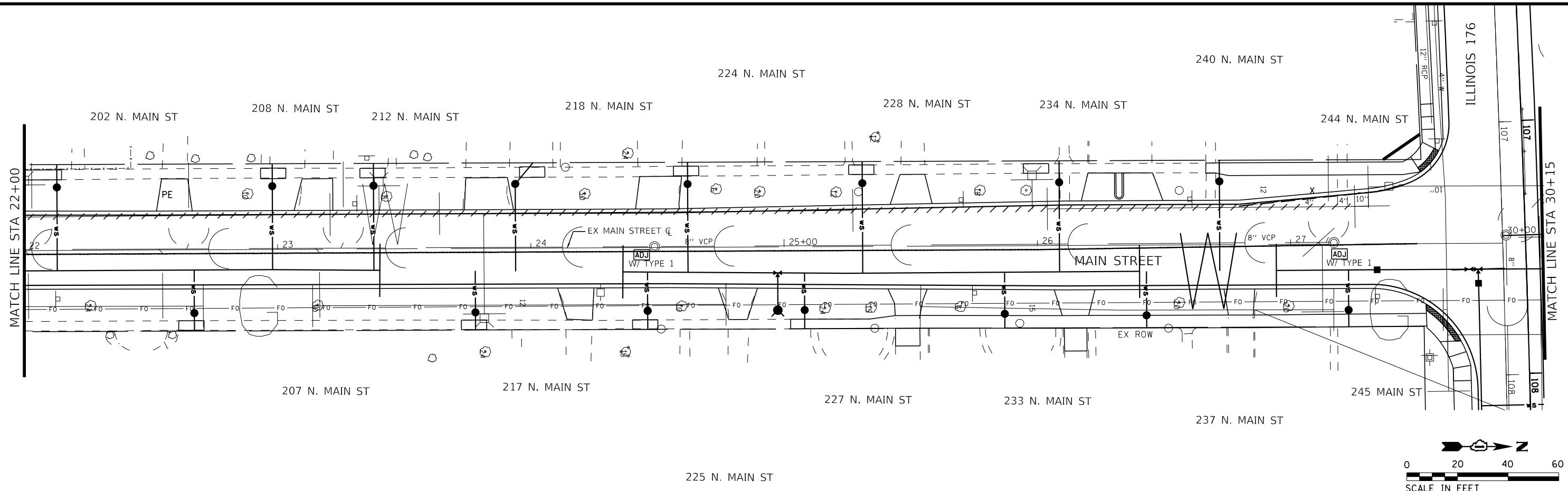
PIPE NO.	FROM	TO	PIPE TYPE	LENGTH FT	SLOPE %	TRENCH BACKFILL CU YD
P5-1	S5-1	ex DW5-2	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 12"	8	2.88%	3.1
P5-2	S5-2	S5-1	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 12"	32	0.63%	10.8
P5-3	S5-3	S5-4	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 12"	25	1.56%	8.0
P5-4	S5-4	S5-6	STORM SEWER (WATER MAIN REQUIREMENTS), 12 INCH	42	0.88%	21.7
P5-5	S5-5	ex DW5-1	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 12"	16	1.50%	8.7
P5-6	S5-6	ex DW5-3	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 12"	7	13.43%	4.1

STRUCTURE NO.	STA.	OFFSET FT	STRUCTURE TYPE	RIM/EOP	INVERTS
S5-1	17+05	21.3' LT	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 11 FRAME AND GRATE	921.76	918.00 12" SE 918.00 12" E
S5-2	17+05	10.7' RT	INLETS, TYPE A, TYPE 11 FRAME AND GRATE	922.09	918.20 12" W
S5-3	17+70	39.8' RT	INLETS, TYPE A, TYPE 11 FRAME AND GRATE	920.89	918.91 12" W
S5-4	17+70	25.0' RT	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	921.80	918.86 12" N 918.86 12" E
S5-5	18+08	23.0' LT	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	923.45	917.88 12" NE 917.88 12" SW
S5-6	18+11	12.2' RT	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11 FRAME AND GRATE	922.38	916.29 12" E 916.29 12" S



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	PLOT DATE = 8/27/2021	DATE - 08-26-2021	FILE 181171_ss2-sht-DU-Main-3.dgn			ILLINOIS FED. AID PROJECT							



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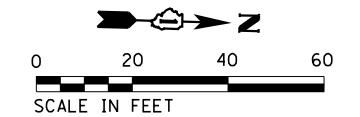
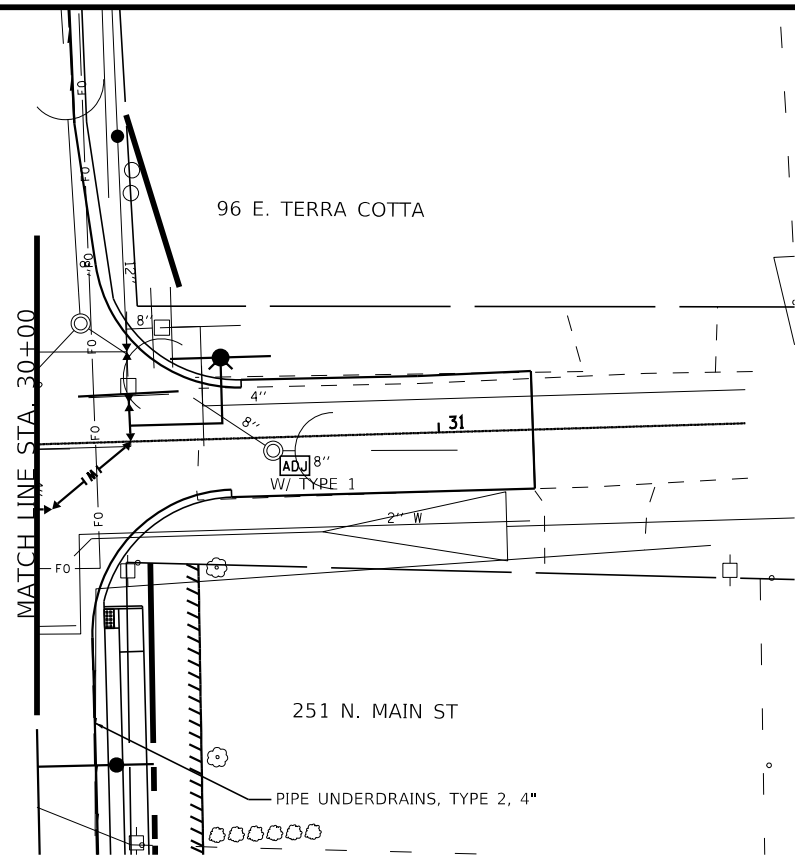
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

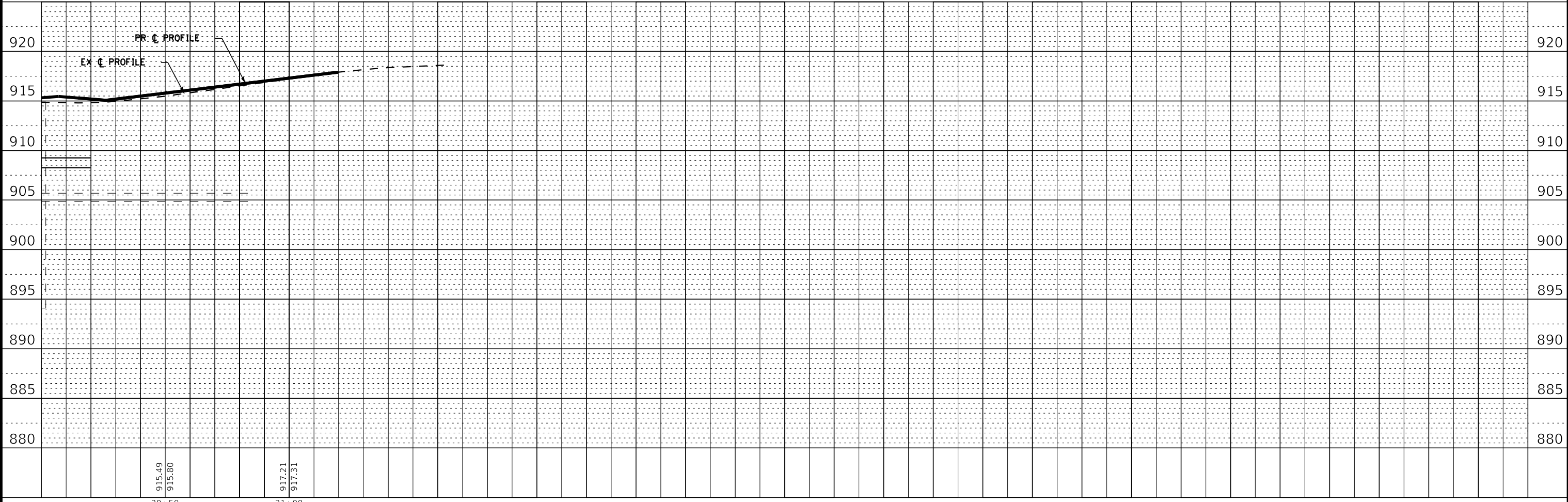
**DRAINAGE AND UTILITIES**  
**MAIN STREET**

SCALE: 1" = 20'    SHEET 4 OF 5 SHEETS    STA. 22+00 TO STA. 30+15

F.A.P. RTE. 335	SECTION 15-00124-00-PV	COUNTY MCHENRY	TOTAL SHEETS 121	SHEET NO. 46
			CONTRACT NO. 61H27	
ILLINOIS FED. AID PROJECT				

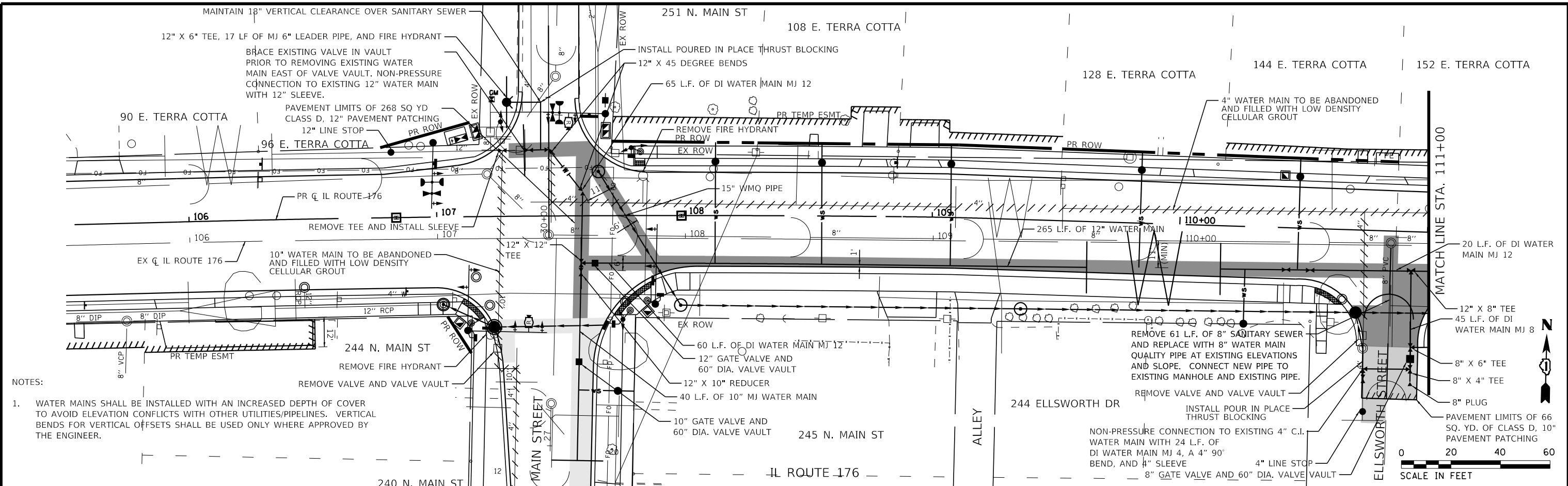


MAIN STREET



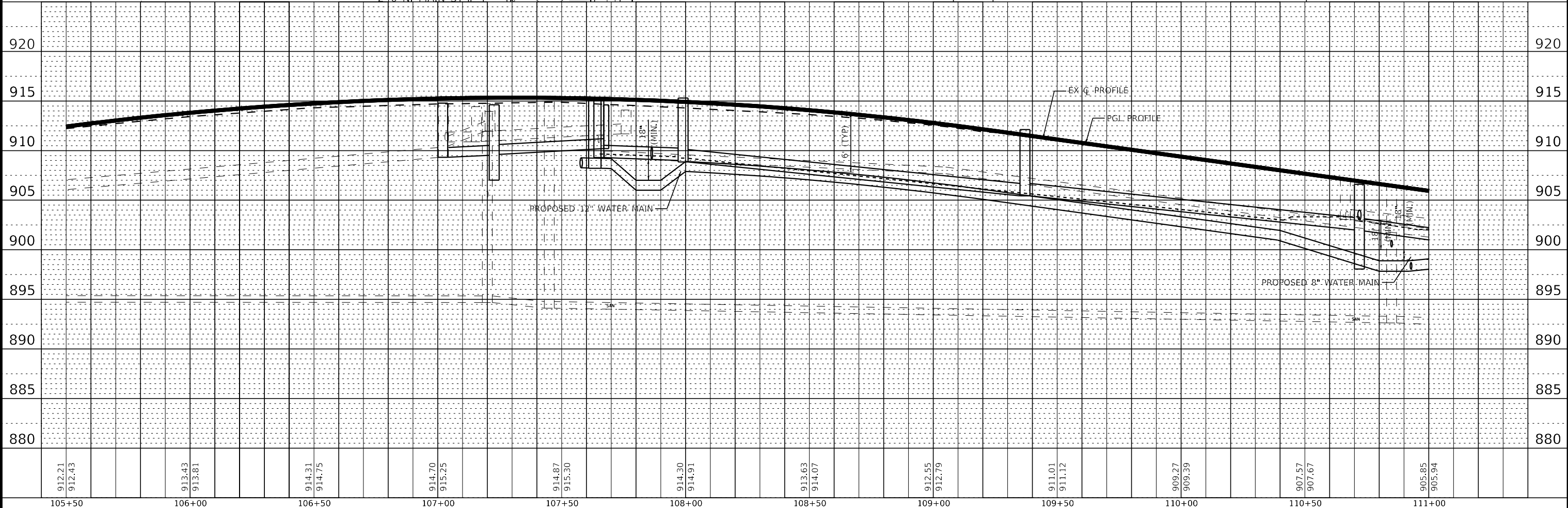
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<b>BAXTER &amp; WOODMAN</b> Consulting Engineers	USER NAME = asramek DESIGNED - AKS DRAWN - KAR PLOT SCALE = 40,0000 ' / in. CHECKED - DJS PLOT DATE = 8/27/2021 DATE - 08-26-2021 FILE 181171_ss2-sht-DU-Main-5.dgn	REVISED - REVISED - REVISED - FILE 181171_ss2-sht-DU-Main-5.dgn	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE AND UTILITIES MAIN STREET	F.A.P. RTE. 335 SECTION 15-00124-00-PV COUNTY MCHENRY TOTAL SHEETS 121 SHEET NO. 47 CONTRACT NO. 61H27	ILLINOIS FED. AID PROJECT
	SCALE: 1" = 20' SHEET 5 OF 5 SHEETS STA. 30+15 TO STA. 32+00					



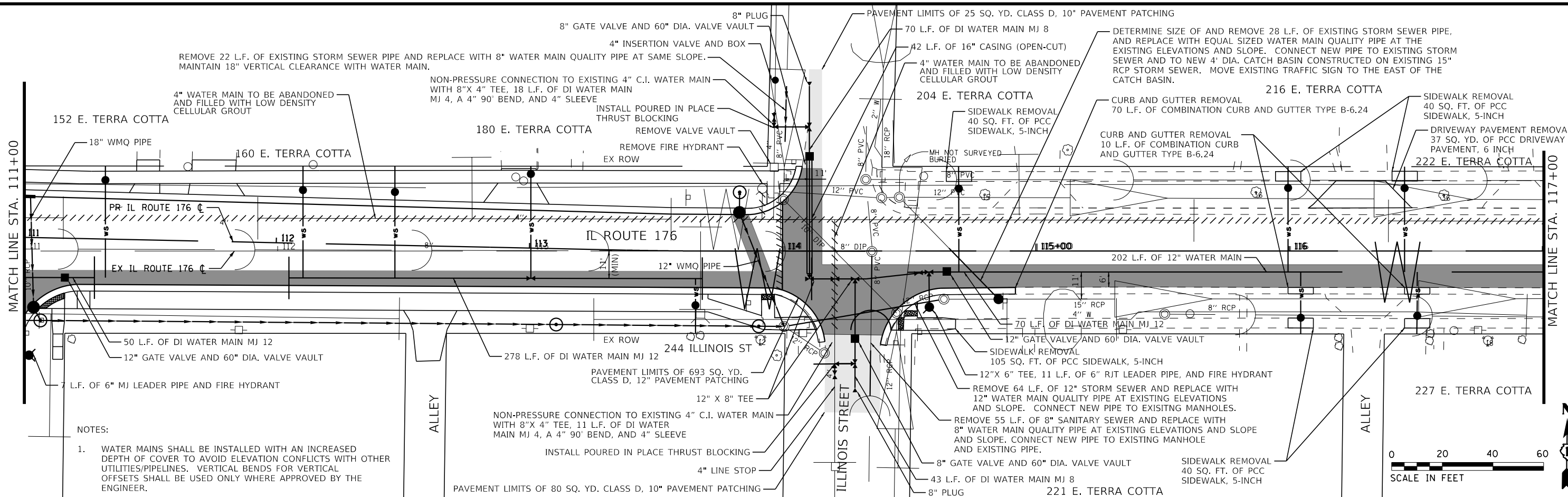
NOTES:

1. WATER MAINS SHALL BE INSTALLED WITH AN INCREASED DEPTH OF COVER TO AVOID ELEVATION CONFLICTS WITH OTHER UTILITIES/PIPELINES. VERTICAL BENDS FOR VERTICAL OFFSETS SHALL BE USED ONLY WHERE APPROVED BY THE ENGINEER.



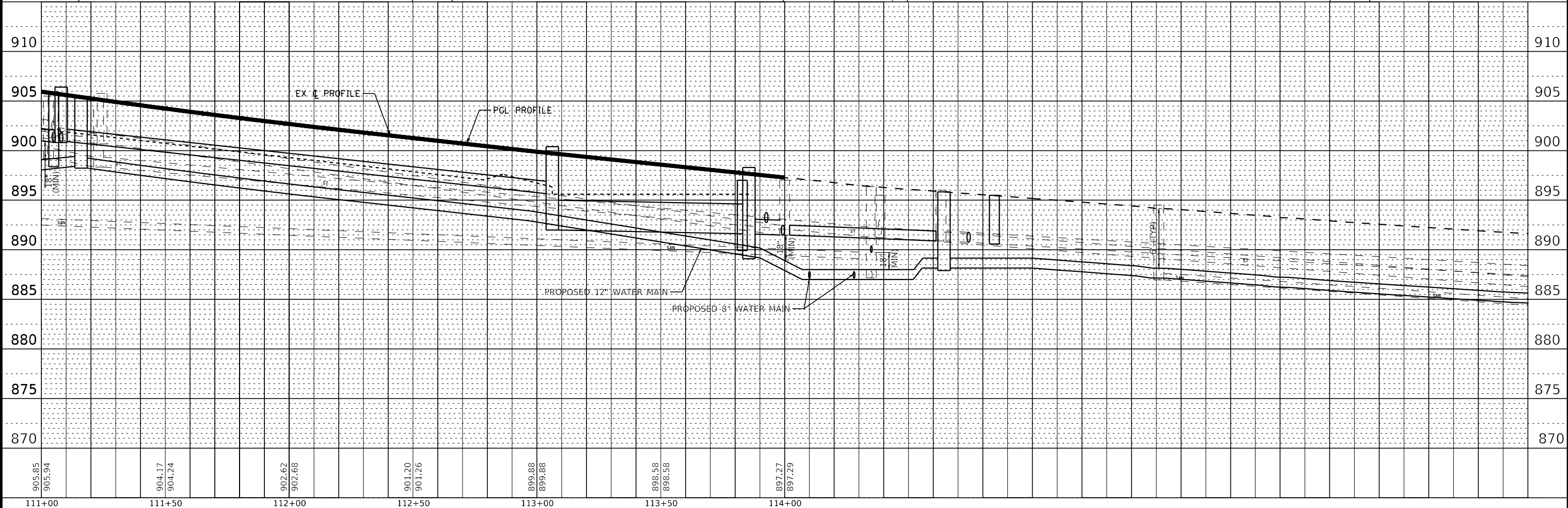
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	PLOT DATE = 8/27/2021	DATE = 08-26-2021	FILE = 181171_ss2-sht-WM-IL176-2.dgn			ILLINOIS FED. AID PROJECT					

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**NOTES:**

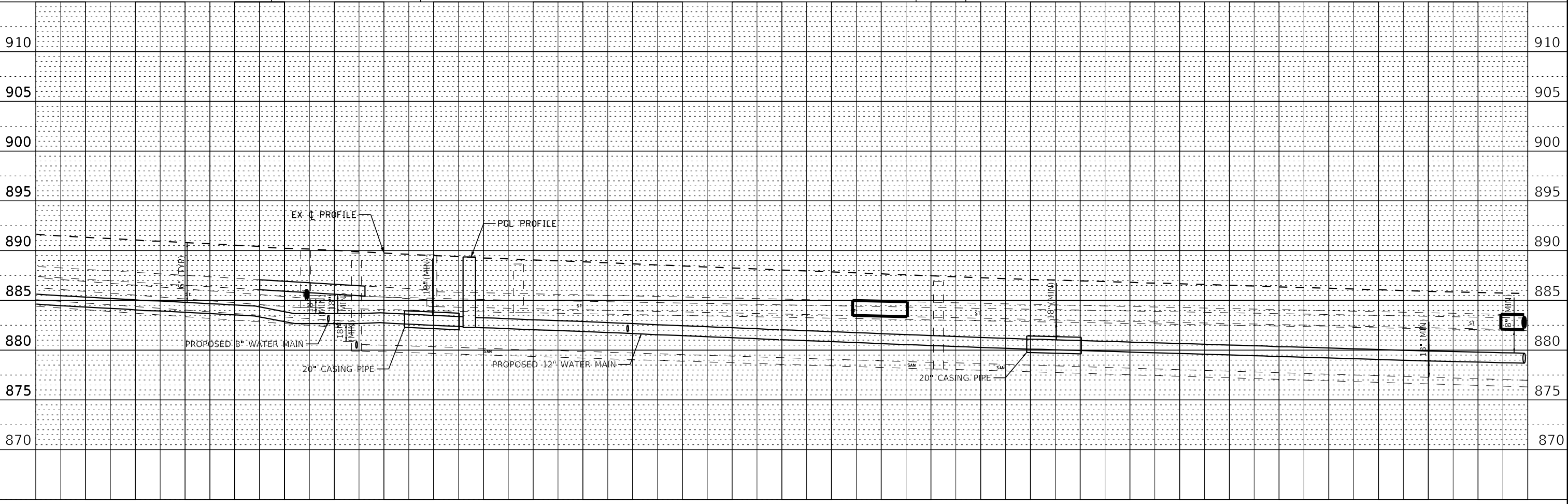
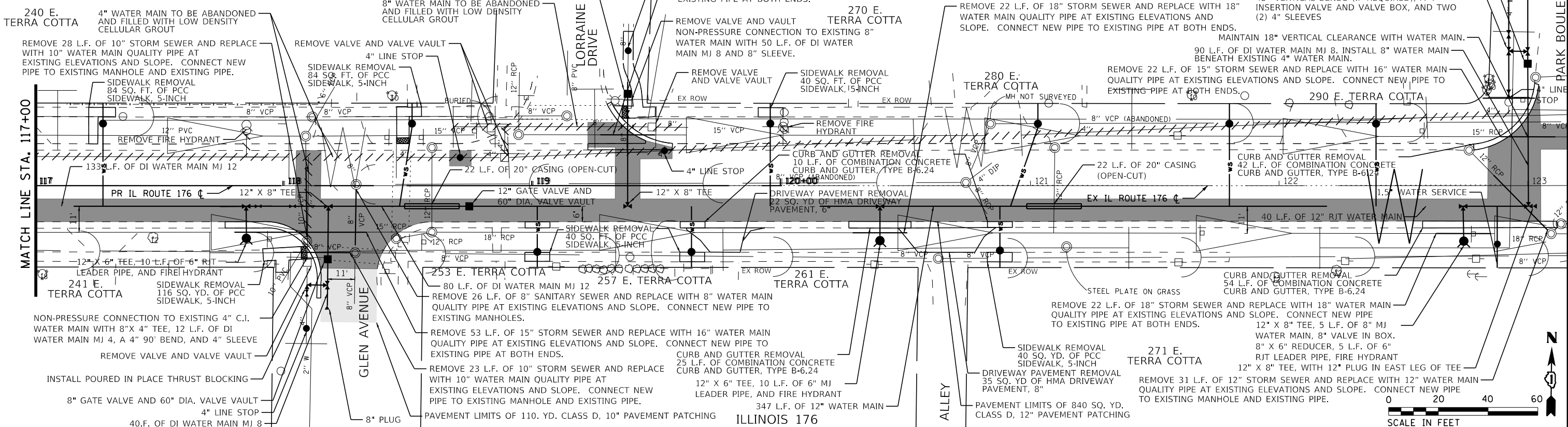
1. WATER MAINS SHALL BE INSTALLED WITH AN INCREASED DEPTH OF COVER TO AVOID ELEVATION CONFLICTS WITH OTHER UTILITIES/PIPELINES. VERTICAL BENDS FOR VERTICAL OFFSETS SHALL BE USED ONLY WHERE APPROVED BY THE ENGINEER.



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<b>BAXTER &amp; WOODMAN</b> Consulting Engineers	USER NAME = asramek	DESIGNED - AKS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WATER MAIN PLAN AND PROFILE IL ROUTE 176	F.A.P. RTE. = 335	SECTION = 15-00124-00-PV	COUNTY = MCHENRY	TOTAL SHEETS = 121	SHEET NO. = 49
	PLOT SCALE = 40,0000' / in.	CHECKED - DJS	REVISED -			SCALE: 1" = 20'	SHEET 3 OF 3 SHEETS	STA. 111+00 TO STA. 117+00	CONTRACT NO. 61H27	
	PLOT DATE = 8/27/2021	DATE = 08-26-2021	FILE 181171_ss2-sht-WM-IL176-3.dgn							

NOTES:  
 1. WATER MAINS SHALL BE INSTALLED WITH AN INCREASED DEPTH OF COVER TO AVOID ELEVATION CONFLICTS WITH OTHER UTILITIES/PIPELINES. VERTICAL BENDS FOR VERTICAL OF SETS SHALL BE USED ONLY WHERE APPROVED BY THE ENGINEER.



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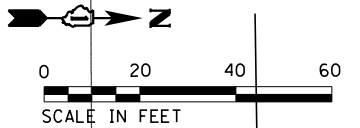
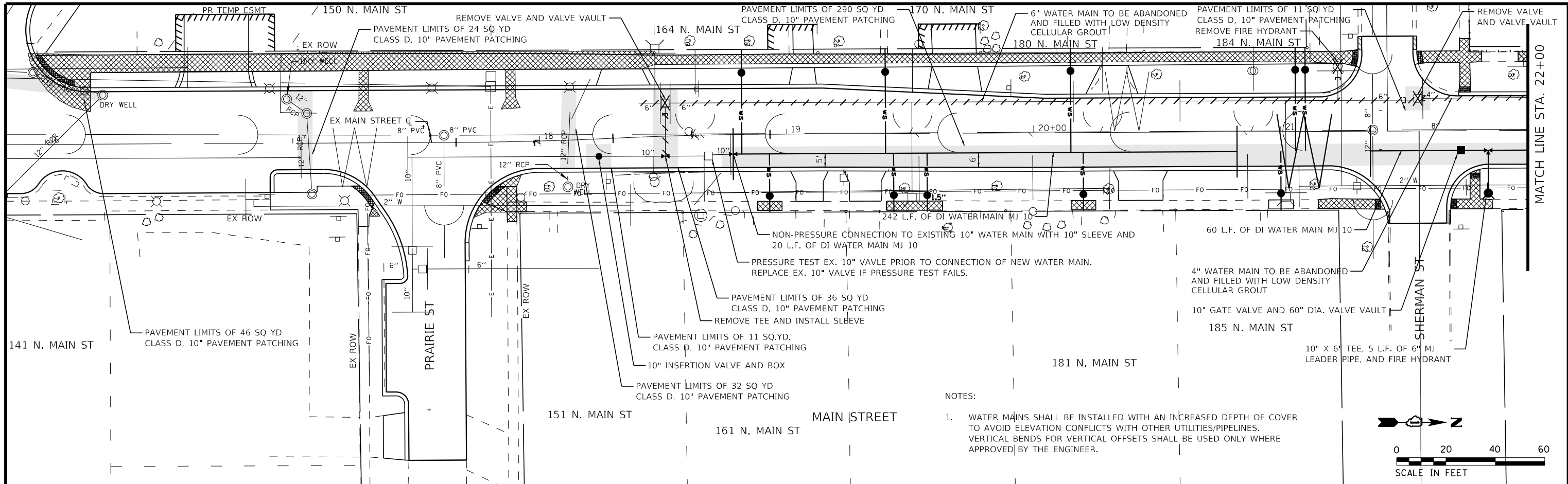


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PLOT DATE = 8/27/2021	CHECKED - DIS	REVISED -
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

WATER MAIN PLAN AND PROFILE  
 IL ROUTE 176  
 SCALE: 1" = 20' SHEET 3 OF 3 SHEETS STA. 117+00 TO STA. 123+00

F.A.P. RTE. 335	SECTION 15-00124-00-PV	COUNTY MCHENRY	TOTAL SHEETS 121	SHEET NO. 50
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H27	



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923.30 923.30	922.73 922.73	922.36 922.36	922.12 922.32	921.89 922.55	921.81 922.50	921.71 922.11	921.44 921.62	921.18 921.22	920.92 921.02	920.71 920.74	920.68 920.70	920.40 920.45
16+00	16+50	17+00	17+50	18+00	18+50	19+00	19+50	20+00	20+50	21+00	21+50	22+00

<b>BAXTER &amp; WOODMAN</b> Consulting Engineers	USER NAME = asramek	DESIGNED - AKS	REVISED -
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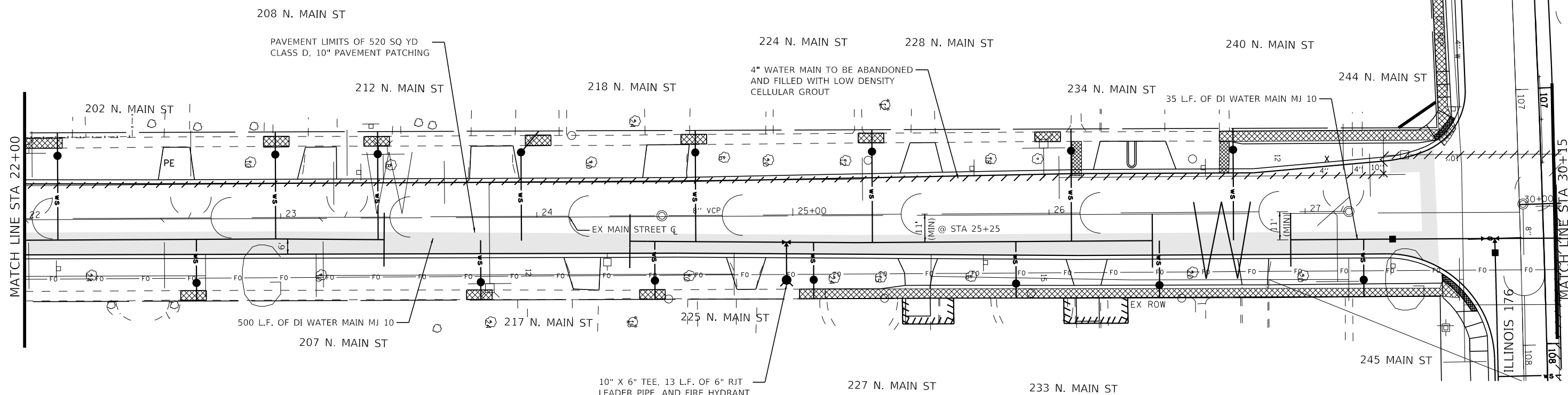
  

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		WATER MAIN PLAN AND PROFILE MAIN STREET	
SCALE: 1" = 20'	SHEET 3 OF 5 SHEETS	STA. 16+00 TO STA. 22+00	

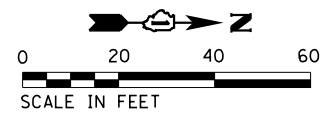
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CONTRACT NO. 61H27				
ILLINOIS FED. AID PROJECT				



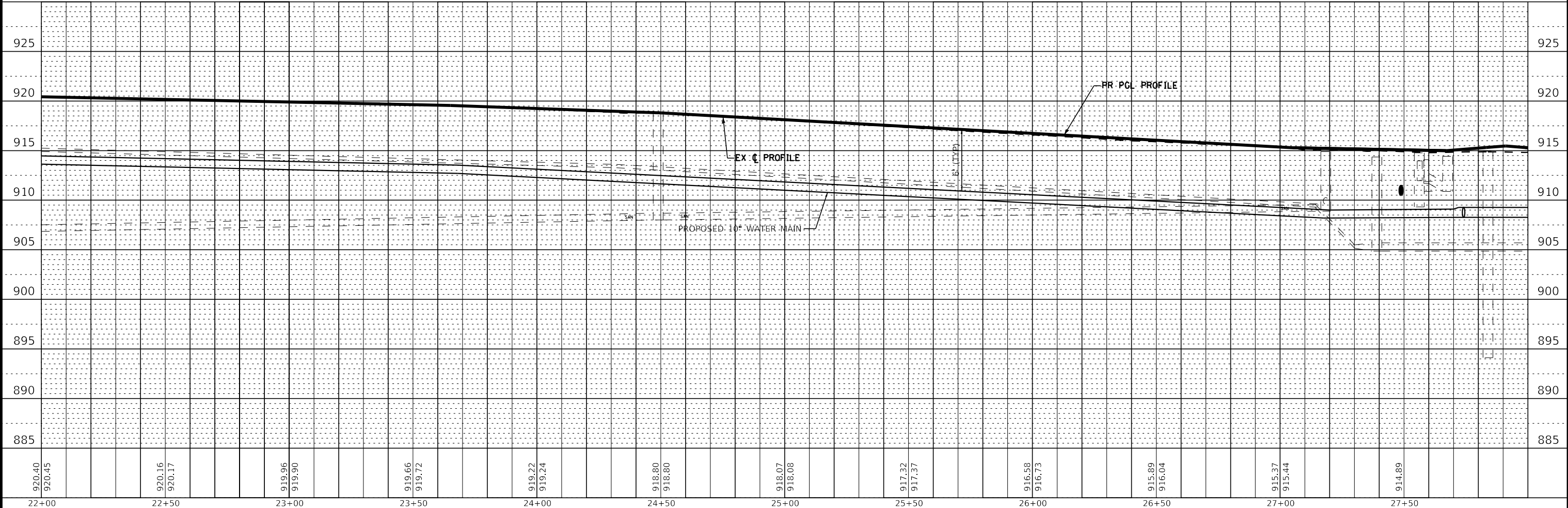


**NOTES:**

1. WATER MAINS SHALL BE INSTALLED WITH AN INCREASED DEPTH OF COVER TO AVOID ELEVATION CONFLICTS WITH OTHER UTILITIES/PIPELINES. VERTICAL BENDS FOR VERTICAL OFFSETS SHALL BE USED ONLY WHERE APPROVED BY THE ENGINEER.



**MAIN STREET**



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

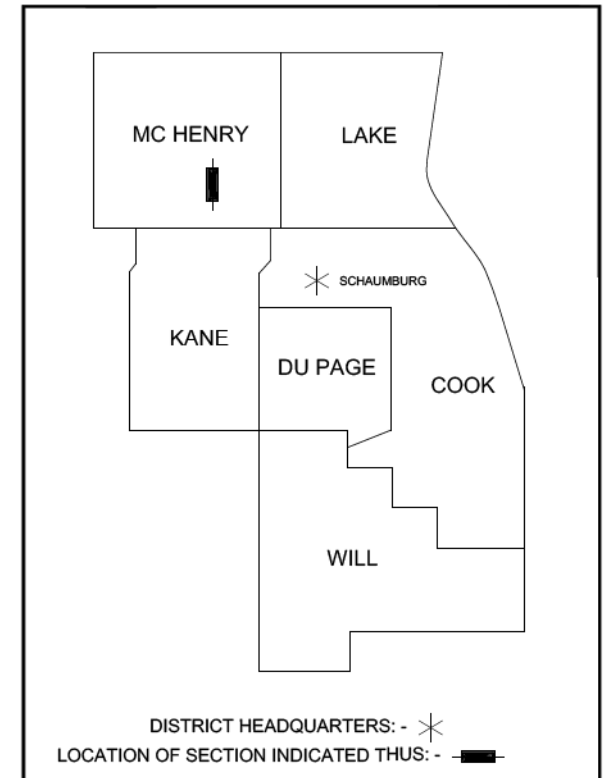
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SCALE: 1" = 20'	SHEET 4 OF 5 SHEETS	STA. 22+00 TO STA. 30+15	

F.A.P. RTE. 335	SECTION 15-00124-00-PV	COUNTY MCHENRY	TOTAL SHEETS 121	SHEET NO. 52
CONTRACT NO. 61H27				
ILLINOIS FED. AID PROJECT				

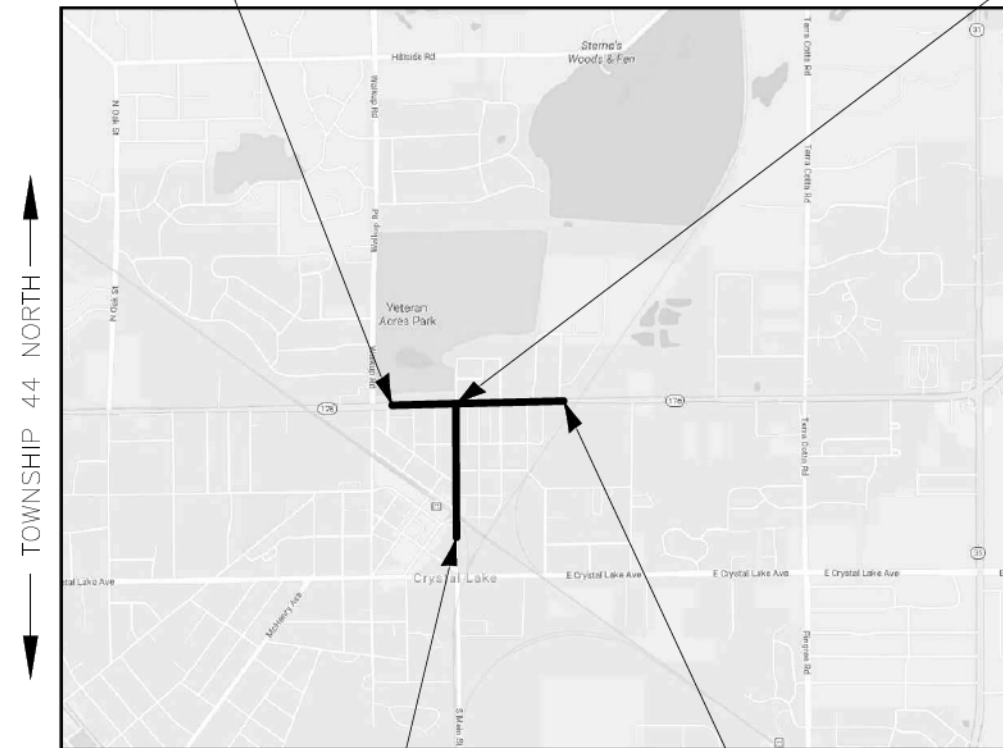
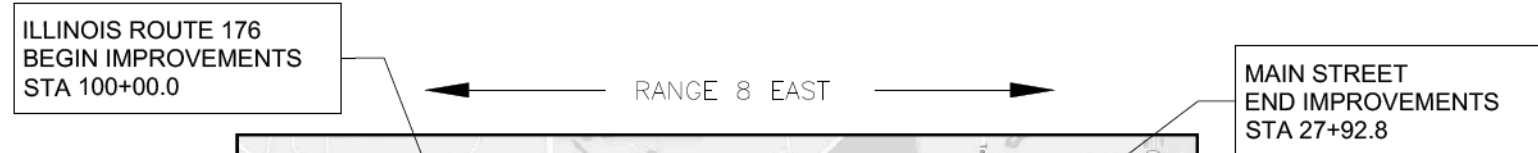
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
**PLAT OF HIGHWAYS**

ROUTE: FAU 124 / MAIN STREET  
SECTION: 15-00124-00-PV  
COUNTY: McHenry  
LIMITS: Crystal Lake Avenue to  
Illinois Route 176  
JOB NO.: R-91-022-19

PARCEL NUMBER	OWNER	SHEET NUMBER	PROPERTY ACQUIRED BY
1NK0001	JSB & P Properties, LLC an Illinois Limited Liability Company	5	
1NK0002	Decker Construction, LLC	5	
1NK0003	Michael J. Babiarz, Jr., as Trustee of the Michael J. Babiarz, Jr. Revocable Trust dated March 22, 2016	5	
1NK0004	David Schaak, as Trustee of the David Schaak Declaration of Trust dated the 20th day of July, 2013, as to an undivided 1/2 interest, and Laura Schaak, as Trustee of the Laura Schaak Declaration of Trust dated the 20th day of July, 2013, as to an undivided 1/2 interest	7	
1NK0005	Benjamin P. Hoffman	7	
1NK0006	James J. Contos	7	
1NK0007	John D. Griffin and Katherine A. Griffin, husband and wife, as Tenants by the Entirety	8	
1NK0008	Steve Theofanous, Fano Theofanous, Cedric Theofanous, and Anna Theofanous, all as Tenants in Common	8	
1NK0009	Bryan Krone	8	
1NK0010	Gilbert Barkstrom	9	
1NK0011	George R. Romano and Mardene E. Romano, as Tenants by the Entirety	7, 9	
1NK0012	Jamie Carter	7, 9	
1NK0013	Donald L. Jaschke and Sherron S. Jaschke, as Tenants in Common	7, 9	
1NK0014	Mary Gurgone	7, 9	
1NK0015	Ronald G. Zuba	10	
1NK0016	William R. Friel and Karalyn F. Friel, his wife, in Joint Tenancy	10	
1NK0017	Robinson Fernandez, Jr.	10	
1NK0018	Clinton R. Trent	10	
1NK0019	Mark D. Novak and Cheryl E. Novak, husband and wife, as Tenants by the Entirety	10	



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Gross & Net Length = 1,792.8 Lin. Ft. = 0.340 Miles (Main Street)  
Gross & Net Length = 2,347.8 Lin. Ft. = 0.445 Miles (Illinois Route 176)

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

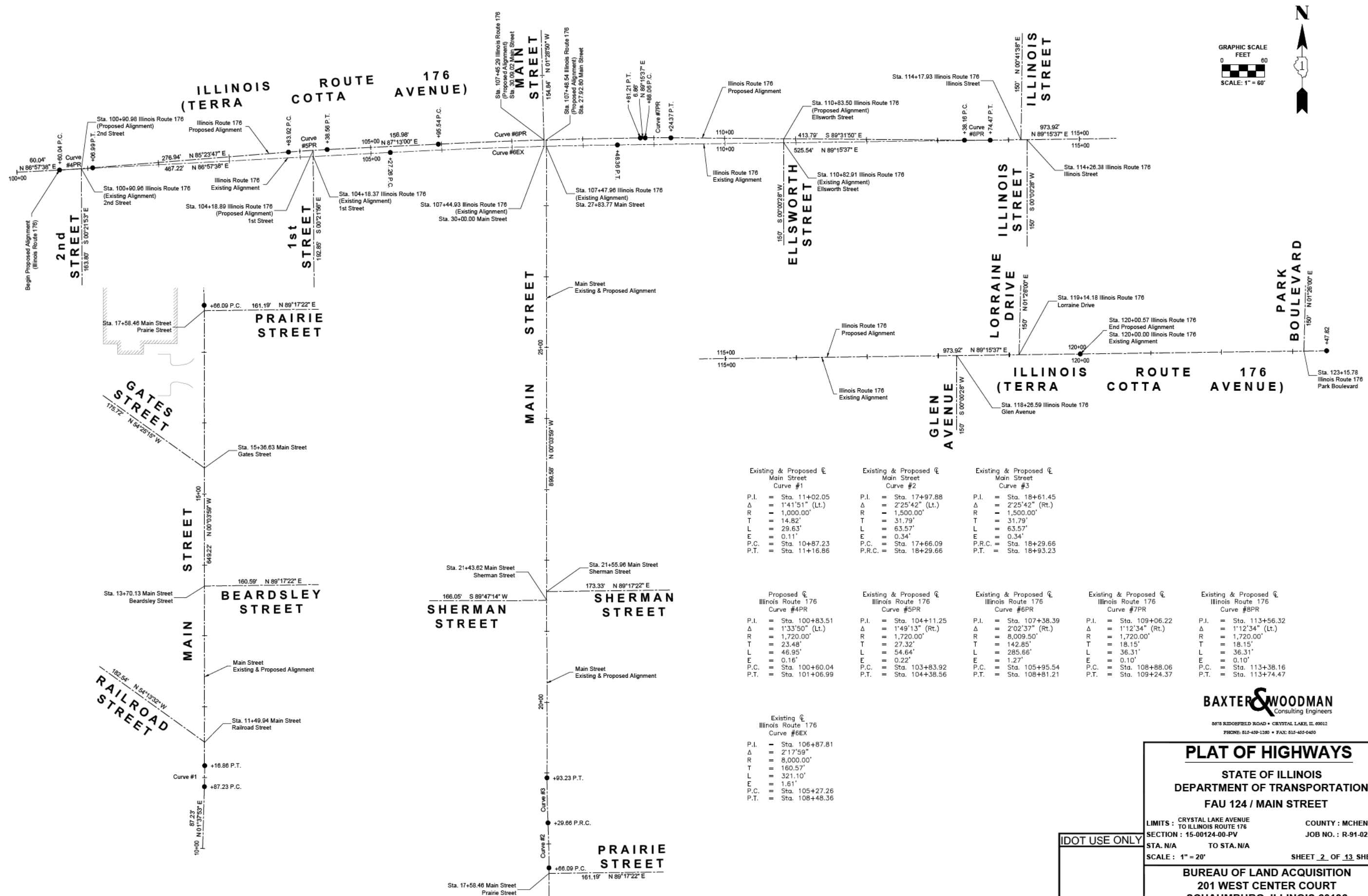
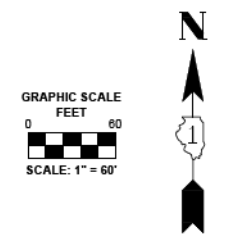
**PLAT OF HIGHWAYS**

SCALE: NONE SHEET 1 OF 13 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	15-00124-00-PV	MC HENRY	121	53
CONTRACT NO. 61H27				
ILLINOIS FED. AID PROJECT				

IDOT USE ONLY

PART OF SECTION 32 & 33, TOWNSHIP 44 NORTH, RANGE 8, EAST OF THIRD PRINCIPAL MERIDIAN, IN MCHENRY COUNTY, ILLINOIS



Existing & Proposed Main Street Curve #1	Existing & Proposed Main Street Curve #2	Existing & Proposed Main Street Curve #3	Proposed Illinois Route 176 Curve #4PR	Existing & Proposed Illinois Route 176 Curve #5PR	Existing & Proposed Illinois Route 176 Curve #6PR	Existing & Proposed Illinois Route 176 Curve #7PR	Existing & Proposed Illinois Route 176 Curve #8PR
P.I. = Sta. 11+02.05	P.I. = Sta. 17+97.88	P.I. = Sta. 18+61.45	P.I. = Sta. 100+83.51	P.I. = Sta. 104+11.25	P.I. = Sta. 107+38.39	P.I. = Sta. 109+06.22	P.I. = Sta. 113+56.32
Δ = 1'41'51" (Lt.)	Δ = 2'25'42" (Lt.)	Δ = 2'25'42" (Rt.)	Δ = 1'33'50" (Lt.)	Δ = 1'49'13" (Rt.)	Δ = 2'02'37" (Rt.)	Δ = 1'12'34" (Rt.)	Δ = 1'12'34" (Lt.)
R = 1,000.00'	R = 1,500.00'	R = 1,500.00'	R = 1,720.00'	R = 1,720.00'	R = 8,009.50'	R = 1,720.00'	R = 1,720.00'
T = 14.82'	T = 31.79'	T = 31.79'	T = 23.48'	T = 27.32'	T = 142.85'	T = 18.15'	T = 18.15'
L = 29.63'	L = 63.57'	L = 63.57'	L = 46.95'	L = 54.64'	L = 285.66'	L = 36.31'	L = 36.31'
E = 0.11'	E = 0.34'	E = 0.34'	E = 0.16'	E = 0.22'	E = 1.27'	E = 0.10'	E = 0.10'
P.C. = Sta. 10+87.23	P.C. = Sta. 17+66.09	P.R.C. = Sta. 18+29.66	P.C. = Sta. 100+60.04	P.C. = Sta. 103+83.92	P.C. = Sta. 105+95.54	P.C. = Sta. 108+88.06	P.C. = Sta. 113+38.16
P.T. = Sta. 11+16.86	P.R.C. = Sta. 18+29.66	P.T. = Sta. 18+93.23	P.T. = Sta. 101+06.99	P.T. = Sta. 104+38.56	P.T. = Sta. 108+81.21	P.T. = Sta. 109+24.37	P.T. = Sta. 113+74.47

Existing Illinois Route 176 Curve #6EX
P.I. = Sta. 106+87.81
Δ = 2'17'59"
R = 8,000.00'
T = 160.57'
L = 321.10'
E = 1.61'
P.C. = Sta. 105+27.26
P.T. = Sta. 108+48.36

IDOT USE ONLY

REVISION DATE: 07-29-2019 REVISION MADE BY: AEB

**BAXTER & WOODMAN**  
Consulting Engineers  
8675 RIDGEFIELD ROAD • CRYSTAL LAKE, IL 60012  
PHONE: 815-459-1200 • FAX: 815-455-0400

**PLAT OF HIGHWAYS**

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
FAU 124 / MAIN STREET

LIMITS : CRYSTAL LAKE AVENUE TO ILLINOIS ROUTE 176 COUNTY : MCHENRY  
SECTION : 15-00124-00-PV JOB NO. : R-91-022-19  
STA. N/A TO STA. N/A  
SCALE : 1" = 20' SHEET 2 OF 13 SHEETS

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

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PLAT OF HIGHWAYS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: NONE	SHEET 2 OF 13 SHEETS	335	15-00124-00-PV	MCHENRY	121	54
				CONTRACT NO. 61H27		
				ILLINOIS FED. AID PROJECT		

PART OF SECTION 32 & 33, TOWNSHIP 44 NORTH, RANGE 8, EAST OF THIRD PRINCIPAL MERIDIAN, IN MCHENRY COUNTY, ILLINOIS

PROJECT COORDINATES  
Illinois State Plane, Ease Zone, NAD 83 (2011)

PARCEL NUMBER	TOTAL HOLDING ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA		PARCEL INDEX NUMBER
					ACRES	SQUARE FEET	
1NK0001TE	0.918	N/A	N/A	0.917	0.014	600	14-32-431-011 14-32-431-012
1NK0002TE	0.200	N/A	N/A	0.200	0.005	200	14-32-431-010
1NK0003TE	0.200	N/A	N/A	0.200	0.006	250	14-32-431-009
1NK0004TE	0.200	N/A	N/A	0.200	0.003	150	14-33-301-004
1NK0005TE-A 1NK0005TE-B	0.200	N/A	N/A	0.200	0.001 0.004	50 180	14-33-301-003
1NK0006TE	0.200	N/A	N/A	0.200	0.002	70	14-33-301-002
1NK0007TE	0.246	N/A	N/A	0.246	0.013	580	14-32-277-011
1NK0008TE	0.246	N/A	N/A	0.246	0.019	840	14-32-277-012
1NK0009TE	0.246	N/A	N/A	0.246	0.019	840	14-32-277-009
1NK0010TE	0.320	N/A	N/A	0.320	0.028	1,205	14-32-429-018
1NK0011 1NK0011TE	0.177	0.0008 (75 SQ.FT.)	0.000	0.176	0.019	824	14-32-429-009
1NK0012	0.294	0.005 (199 SQ.FT.)	0.000	0.289	N/A	N/A	14-32-277-007
1NK0013 1NK0013TE	0.178	0.007 (294 SQ.FT.)	0.000	0.171	0.014	589	14-33-153-004
1NK0014 1NK0014TE	0.173	0.007 (285 SQ.FT.)	0.000	0.166	0.015	670	14-33-153-005
1NK0015 1NK0015TE	0.200	0.007 (306 sq.ft.)	0.000	0.193	0.010	431	14-33-153-006
1NK0016	0.200	0.004 (191 sq.ft.)	0.000	0.196	00	00	14-33-153-007
1NK0017 1NK0017TE	0.465	0.002 (69 sq.ft.)	0.000	0.463	0.008	329	14-33-153-008
1NK0018TE	0.500	N/A	N/A	0.500	0.008	330	14-33-153-009
1NK0019TE	0.359	N/A	N/A	0.359	0.011	500	14-33-153-027

Proposed Right-of-Way  
(Illinois Route 176)

Station / Description	Northing	Easting
106+77.59 28.32' Lt.	2,033,154.55	988,841.05
107+17.34 29.10' Lt.	2,033,156.75	988,880.89
107+17.72 39.09' Lt.	2,033,166.75	988,880.94
107+04.01 37.30' Rt.	2,033,089.93	988,869.84
27+54.67 33.28' Lt.	2,033,090.48	988,879.83
27+39.67 33.28' Lt.	2,033,075.48	988,879.83
107+70.45 25.02' Lt.	2,033,154.28	988,934.28
107+70.73 30.02' Lt.	2,033,159.28	988,934.43
108+29.15 24.40' Lt.	2,033,155.01	988,993.16
108+29.39 29.39' Lt.	2,033,160.01	988,993.30
108+86.04 24.20' Lt.	2,033,155.72	989,050.20
108+86.26 29.20' Lt.	2,033,160.72	989,050.35
109+10.12 29.33' Lt.	2,033,161.02	989,074.59
109+51.58 25.13' Lt.	2,033,156.54	989,116.25
109+51.66 28.95' Lt.	2,033,160.36	989,116.37
110+17.62 26.49' Lt.	2,033,157.36	989,182.31
110+17.66 28.46' Lt.	2,033,159.32	989,182.37
110+87.58 27.93' Lt.	2,033,158.22	989,252.27

Proposed Temporary Easement  
(Illinois Route 176)

Station / Description	Northing	Easting
107+71.29 40.01' Lt.	2,033,169.29	988,934.72
108+29.88 39.39' Lt.	2,033,170.02	988,993.60
108+66.91 39.22' Lt.	2,033,170.48	989,030.80
108+66.98 44.22' Lt.	2,033,175.48	989,030.80
108+86.89 44.20' Lt.	2,033,175.73	989,050.80
108+86.68 39.20' Lt.	2,033,170.72	989,050.65
109+06.28 39.29' Lt.	2,033,170.97	989,070.66
109+06.33 34.39' Lt.	2,033,166.08	989,070.72
109+51.77 33.95' Lt.	2,033,165.36	989,116.52
110+17.77 33.45' Lt.	2,033,164.32	989,182.51
110+47.07 32.51' Lt.	2,033,162.97	989,231.81
110+87.61 32.93' Lt.	2,033,163.23	989,252.34
111+53.56 29.29' Lt.	2,033,159.04	989,318.27
111+53.59 34.29' Lt.	2,033,164.04	989,318.34
112+53.55 31.35' Lt.	2,033,160.28	989,418.27
112+53.58 36.35' Lt.	2,033,165.28	989,418.34

Centerline Alignment  
(Illinois Route 176) (Proposed)

Station / Description	Northing	Easting
100+60.04 P.C. (Curve #4PR) Begin Alignment	2,033,086.18	988,225.96
101+06.99 P.T. (Curve #4PR)	2,033,089.31	988,272.81
103+83.92 P.C. (Curve #5PR)	2,033,111.54	988,548.85
104+38.56 P.T. (Curve #5PR)	2,033,115.06	988,603.37
105+95.54 P.C. (Curve #6PR)	2,033,122.68	988,760.17
108+81.21 P.T. (Curve #6PR)	2,033,131.46	989,045.68
108+88.06 P.C. (Curve #7PR)	2,033,131.55	989,052.54
109+24.37 P.T. (Curve #7PR)	2,033,131.63	989,088.84
113+38.16 P.C. (Curve #8PR)	2,033,128.24	989,502.62
113+74.47 P.T. (Curve #8PR)	2,033,128.33	989,538.93
120+00.57 End Alignment	2,033,136.41	990,164.98

Centerline Alignment  
(Illinois Route 176) (Existing)

Station / Description	Northing	Easting
100+60.00 Begin Alignment	2,033,083.00	988,166.01
105+27.26 P.T. (Curve #6EX)	2,033,110.96	988,692.52
108+48.36 P.T. (Curve #6EX)	2,033,121.54	989,013.43
123+47.82 End Alignment	2,033,140.90	990,512.76

Centerline Alignment  
(Main Street)

Station / Description	Northing	Easting
10+00.00 Begin Alignment	2,031,335.93	988,914.79
10+87.23 P.C. (Curve #1)	2,031,423.13	988,917.27
11+16.86 P.T. (Curve #1)	2,031,452.75	988,917.67
17+66.09 P.C. (Curve #2)	2,032,101.97	988,916.92
18+29.66 P.R.C. (Curve #2.3)	2,032,165.52	988,915.50
18+93.23 P.T. (Curve #3)	2,032,229.07	988,914.08
27+92.80 End Alignment	2,033,128.65	988,913.04
30+00.00 Begin Alignment	2,033,128.55	988,909.79
31+54.84 End Alignment	2,033,283.34	988,905.79

REVISION DATE: 07-29-2019 REVISION MADE BY: AEB

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Consulting Engineers  
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PHONE: 815-459-1200 • FAX: 815-455-0450

**PLAT OF HIGHWAYS**  
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
FAU 124 / MAIN STREET  
LIMITS : CRYSTAL LAKE AVENUE TO ILLINOIS ROUTE 176  
SECTION : 15-00124-00-PV  
COUNTY : MCHENRY  
JOB NO. : R-91-022-19  
STA. N/A TO STA. N/A  
SCALE : 1" = 20'  
SHEET 3 OF 13 SHEETS  
BUREAU OF LAND ACQUISITION  
201 WEST CENTER COURT  
SCHAUMBURG, ILLINOIS 60196

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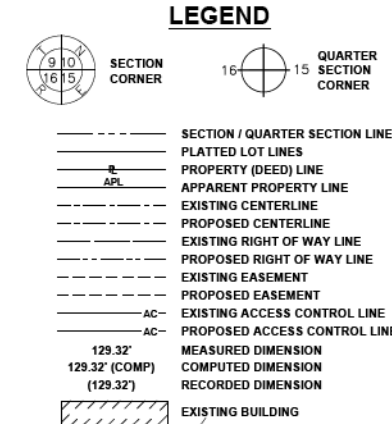
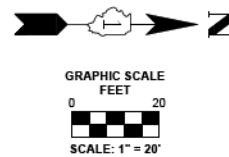
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**PLAT OF HIGHWAYS**  
SCALE: NONE SHEET 3 OF 13 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	15-00124-00-PV	MCHENRY	121	55
				CONTRACT NO. 61H27
ILLINOIS FED. AID PROJECT				

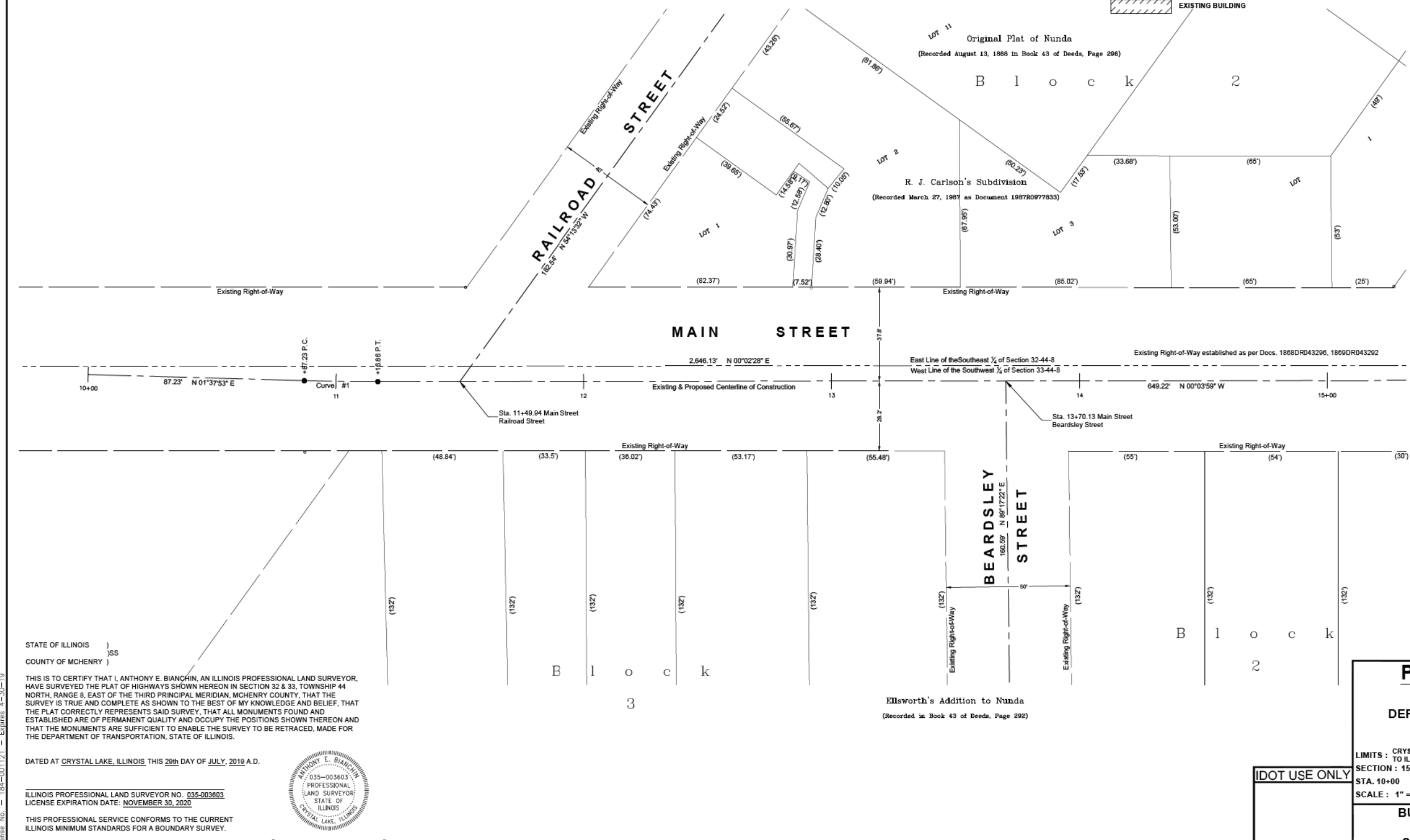
PART OF SECTION 32 & 33, TOWNSHIP 44 NORTH, RANGE 8, EAST OF THIRD PRINCIPAL MERIDIAN, IN MCHENRY COUNTY, ILLINOIS



- IRON PIPE OR ROD FOUND
- ⊕ "MAG" NAIL SET
- + CUT CROSS FOUND OR SET
- 5/8" REBAR SET
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYOR'S REGISTRATION NUMBER.
- 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 SURVEYOR'S REGISTRATION NUMBER.
- ⊕ PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET

Notes:

- Bearings and distances are referenced to Illinois State Plane Coordinate System, East Zone, North American Datum of 1983, "grid" (2011 adjustment)
- Coordinates are based on Illinois State Plane Coordinate System, East Zone, North American Datum of 1983, "grid" (2011 adjustment)
- All dimensions are measured unless otherwise noted.
- All measured and calculated distances are grid. To obtain ground distances, divide grid distances by the combination factor of 0.999975.



See Sheet 5

STATE OF ILLINOIS )  
 COUNTY OF MCHENRY )

THIS IS TO CERTIFY THAT I, ANTHONY E. BIANCHIN, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 32 & 33, TOWNSHIP 44 NORTH, RANGE 8, EAST OF THE THIRD PRINCIPAL MERIDIAN, MCHENRY COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT CRYSTAL LAKE, ILLINOIS THIS 29th DAY OF JULY, 2019 A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-003603  
 LICENSE EXPIRATION DATE: NOVEMBER 30, 2020

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

ANTHONY E. BIANCHIN  
 035-003603  
 PROFESSIONAL LAND SURVEYOR  
 STATE OF ILLINOIS  
 CRYSTAL LAKE, ILLINOIS

"LICENSE EXPIRES 11-30-2020"

**BAXTER & WOODMAN**  
 Consulting Engineers  
 8075 RIDGEFIELD ROAD • CRYSTAL LAKE, IL 60012  
 PHONE: 815-459-1200 • FAX: 815-455-0400

**PLAT OF HIGHWAYS**

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 FAU 124 / MAIN STREET

LIMITS : CRYSTAL LAKE AVENUE TO ILLINOIS ROUTE 176 COUNTY : MCHENRY  
 SECTION : 15-00124-00-PV JOB NO. : R-91-022-19  
 STA. 10+00 TO STA. 15+00  
 SCALE : 1" = 20' SHEET 4 OF 13 SHEETS

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

**IDOT USE ONLY**

REVISION DATE: 07-29-2019 REVISION MADE BY: AEB

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM  
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

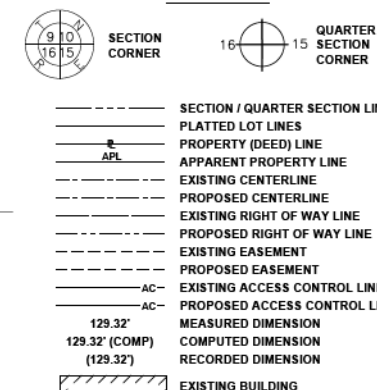
**PLAT OF HIGHWAYS**

SCALE: NONE SHEET 4 OF 13 SHEETS STA. TO STA.

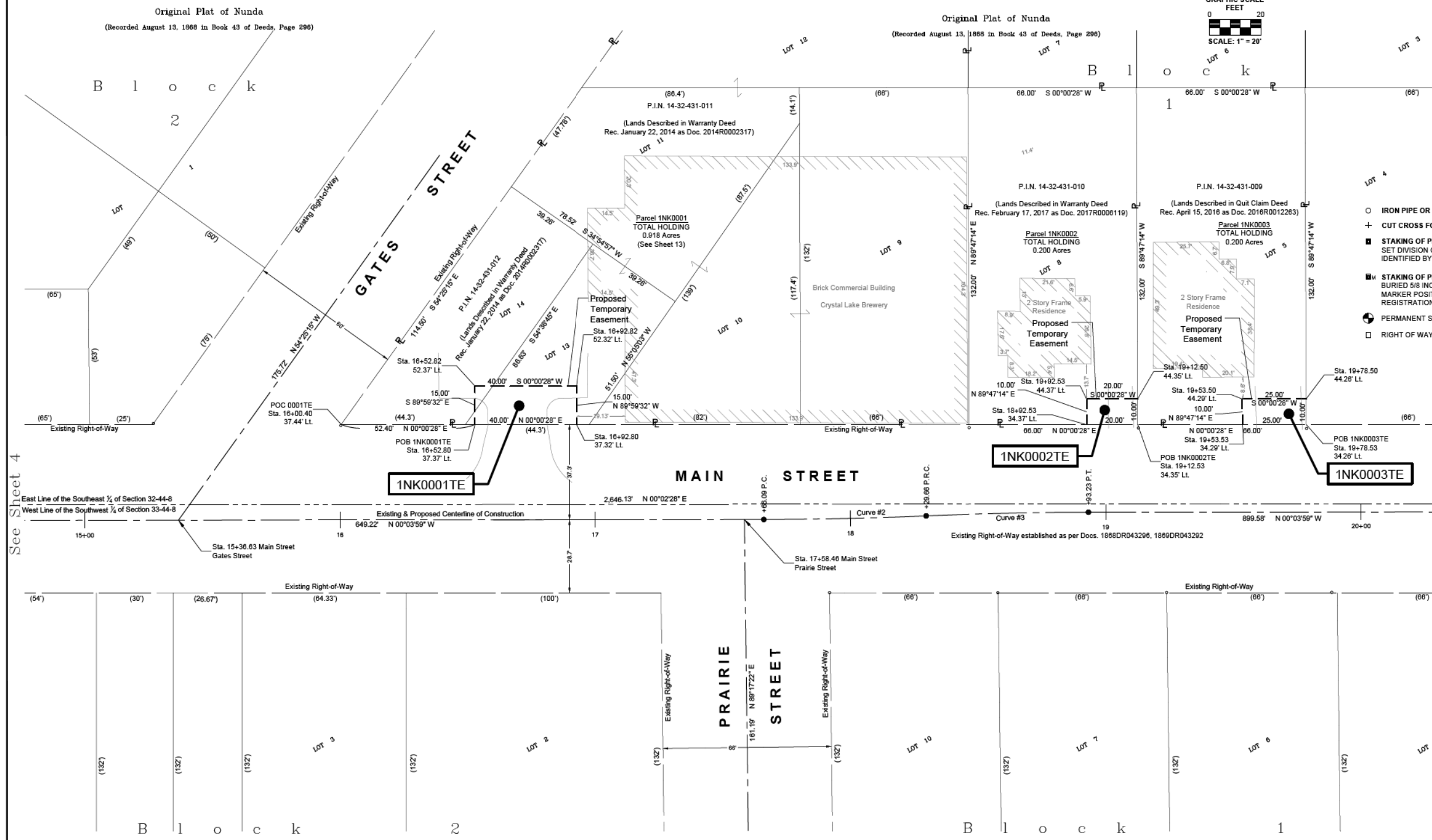
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	15-00124-00-PV	MCHENRY	121	56
				CONTRACT NO. 61H27
		ILLINOIS	FED. AID PROJECT	

PART OF SECTION 32 & 33, TOWNSHIP 44 NORTH, RANGE 8, EAST OF THIRD PRINCIPAL MERIDIAN, IN MCHENRY COUNTY, ILLINOIS

LEGEND



- Notes:
- Bearings and distances are referenced to Illinois State Plane Coordinate System, East Zone, North American Datum of 1983, "grid" (2011 adjustment)
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  - All dimensions are measured unless otherwise noted.
  - All measured and calculated distances are grid. To obtain ground distances, divide grid distances by the combination factor of 0.999975.



STATE OF ILLINOIS )  
 COUNTY OF MCHENRY )  
 ) SS  
 )

THIS IS TO CERTIFY THAT I, ANTHONY E. BIANCHIN, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 32 & 33, TOWNSHIP 44 NORTH, RANGE 8, EAST OF THE THIRD PRINCIPAL MERIDIAN, MCHENRY COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT CRYSTAL LAKE, ILLINOIS THIS 29th DAY OF JULY, 2019 A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-003603  
 LICENSE EXPIRATION DATE: NOVEMBER 30, 2020

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

ANTHONY E. BIANCHIN  
 035-003603  
 PROFESSIONAL LAND SURVEYOR  
 STATE OF ILLINOIS  
 CRYSTAL LAKE, ILLINOIS

"LICENSE EXPIRES 11-30-2020"

PARCEL NUMBER	TOTAL HOLDING ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA		PARCEL INDEX NUMBER
					ACRES	SQUARE FEET	
1NK0001TE	0.918	N/A	N/A	0.917	0.014	600	14-32-431-011 14-32-431-012
1NK0002TE	0.200	N/A	N/A	0.200	0.005	200	14-32-431-010
1NK0003TE	0.200	N/A	N/A	0.200	0.006	250	14-32-431-009

**BAXTER & WOODMAN**  
 Consulting Engineers  
 8075 RIDGEFIELD ROAD • CRYSTAL LAKE, IL 60012  
 PHONE: 815-459-1200 • FAX: 815-455-0400

**PLAT OF HIGHWAYS**

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 FAU 124 / MAIN STREET

LIMITS : CRYSTAL LAKE AVENUE TO ILLINOIS ROUTE 176  
 SECTION : 15-00124-00-PV  
 COUNTY : MCHENRY  
 JOB NO. : R-91-022-19

STA. 15+00 TO STA. 20+00  
 SCALE : 1" = 20'  
 SHEET 5 OF 13 SHEETS

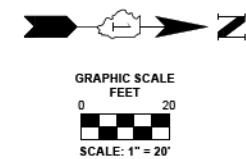
**BUREAU OF LAND ACQUISITION**  
 201 WEST CENTER COURT  
 SCHAUMBURG, ILLINOIS 60196

CONTRACT NO. 61H27  
 ILLINOIS FED. AID PROJECT

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM  
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2022  
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I:\CRYSTAL LAKE\CRYL\181171-NORTH MAIN ST PH I\CAD\PLATS\181171 - PLATS.DWG Sheet 5  
 Plotted: 3/18/2019 @ 12:53 PM By: 554AEB  
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 State of Illinois - Professional Design Firm  
 License No. - 184-001121 - Expires 4-30-19

PART OF SECTION 32 & 33, TOWNSHIP 44 NORTH, RANGE 8, EAST OF THIRD PRINCIPAL MERIDIAN, IN MCHENRY COUNTY, ILLINOIS



**LEGEND**

- SECTION / QUARTER SECTION LINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- EXISTING EASEMENT
- PROPOSED EASEMENT
- AC--- EXISTING ACCESS CONTROL LINE
- AC--- PROPOSED ACCESS CONTROL LINE
- MEASURED DIMENSION
- (129.32') (COMP)
- (129.32')
- RECORDED DIMENSION
- EXISTING BUILDING

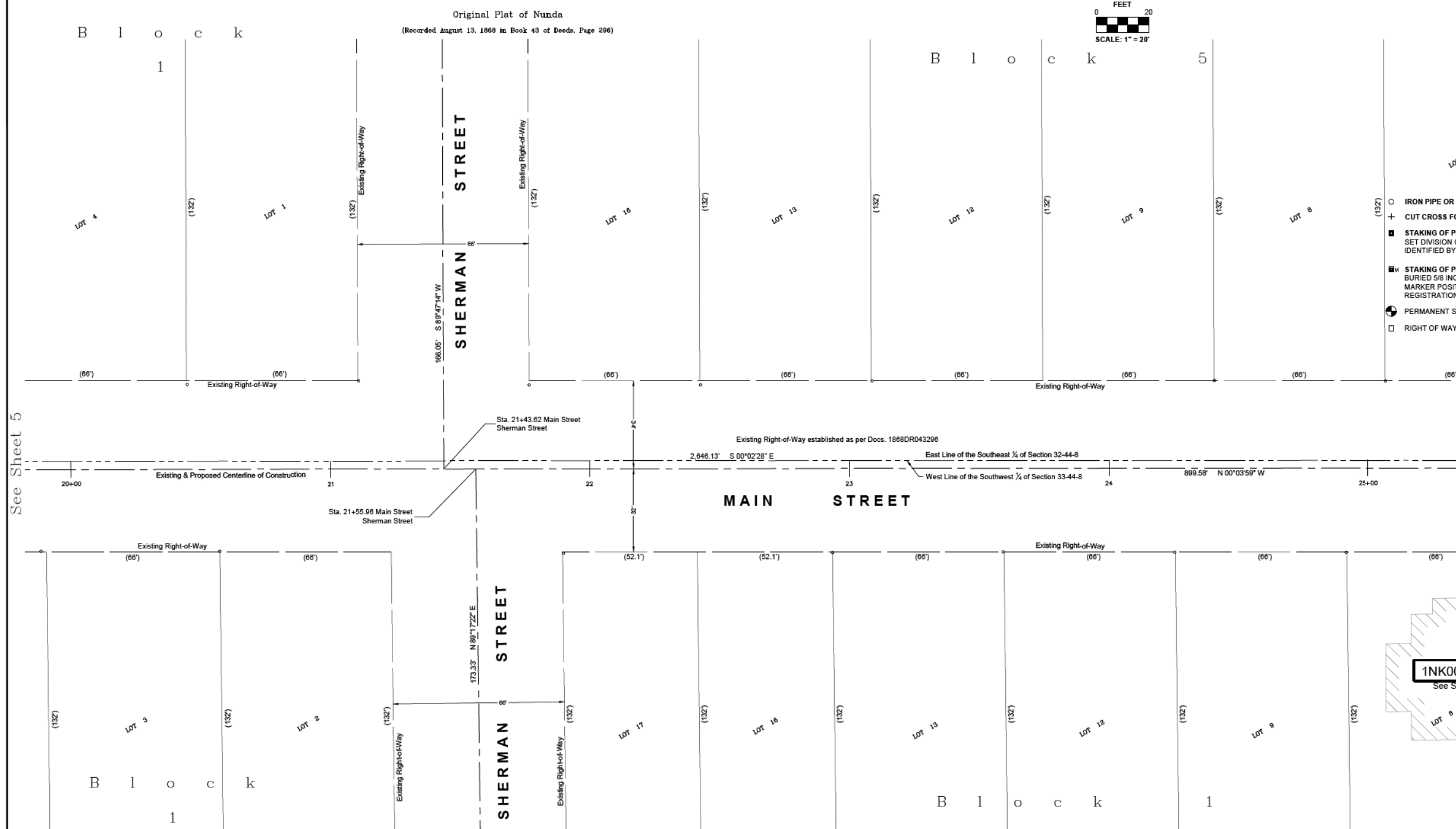
IRON PIPE OR ROD FOUND       "MAG" NAIL SET  
 CUT CROSS FOUND OR SET       5/8" REBAR SET

STAKING OF PROPOSED RIGHT OF WAY.  
 SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYOR'S REGISTRATION NUMBER.

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 SURVEYOR'S REGISTRATION NUMBER.

PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)

RIGHT OF WAY STAKING PROPOSED TO BE SET



- Notes:**
- Bearings and distances are referenced to Illinois State Plane Coordinate System, East Zone, North American Datum of 1983, "grid" (2011 adjustment)
  - Coordinates are based on Illinois State Plane Coordinate System, East Zone, North American Datum of 1983, "grid" (2011 adjustment)
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See Sheet 5

See Sheet 7

STATE OF ILLINOIS )  
 COUNTY OF MCHENRY )

THIS IS TO CERTIFY THAT I, ANTHONY E. BIANCHIN, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 32 & 33, TOWNSHIP 44 NORTH, RANGE 8, EAST OF THE THIRD PRINCIPAL MERIDIAN, MCHENRY COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT CRYSTAL LAKE, ILLINOIS THIS 29th DAY OF JULY, 2019 A.D.

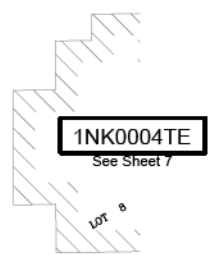
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-003603  
 LICENSE EXPIRATION DATE: NOVEMBER 30, 2020

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



"LICENSE EXPIRES 11-30-2020"

E.E. Vail's Addition to Crystal Lake  
 (Recorded April 22, 1909 as Document 1909B0012900  
 Re-Recorded April 26, 1910 as Document 1910R0015577)



**BAXTER & WOODMAN**  
 Consulting Engineers

8075 RIDGEFIELD ROAD • CRYSTAL LAKE, IL 60012  
 PHONE: 815-459-1200 • FAX: 815-455-0400

**PLAT OF HIGHWAYS**

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 FAU 124 / MAIN STREET

LIMITS : CRYSTAL LAKE AVENUE TO ILLINOIS ROUTE 176      COUNTY : MCHENRY  
 SECTION : 15-00124-00-PV      JOB NO. : R-91-022-19

STA. 20+00 TO STA. 25+00      SCALE : 1" = 20'      SHEET 6 OF 13 SHEETS

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

IDOT USE ONLY

REVISION DATE: 07-29-2019 REVISION MADE BY: AEB

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM  
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 Plotted: 3/18/2019 @ 12:53 PM By: 5544EB  
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 State of Illinois - Professional Design Firm  
 License No. - 184-001121 - Expires 4-30-19



USER NAME = asramek	DESIGNED - DJS	REVISED -
PLOT SCALE = 2,000' / in.	DRAWN - KAR	REVISED -
PLOT DATE = 8/27/2021	CHECKED - AKS	REVISED -
	DATE - 08-26-2021	FILE - 181171_sht-Plat.dgn

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

**PLAT OF HIGHWAYS**

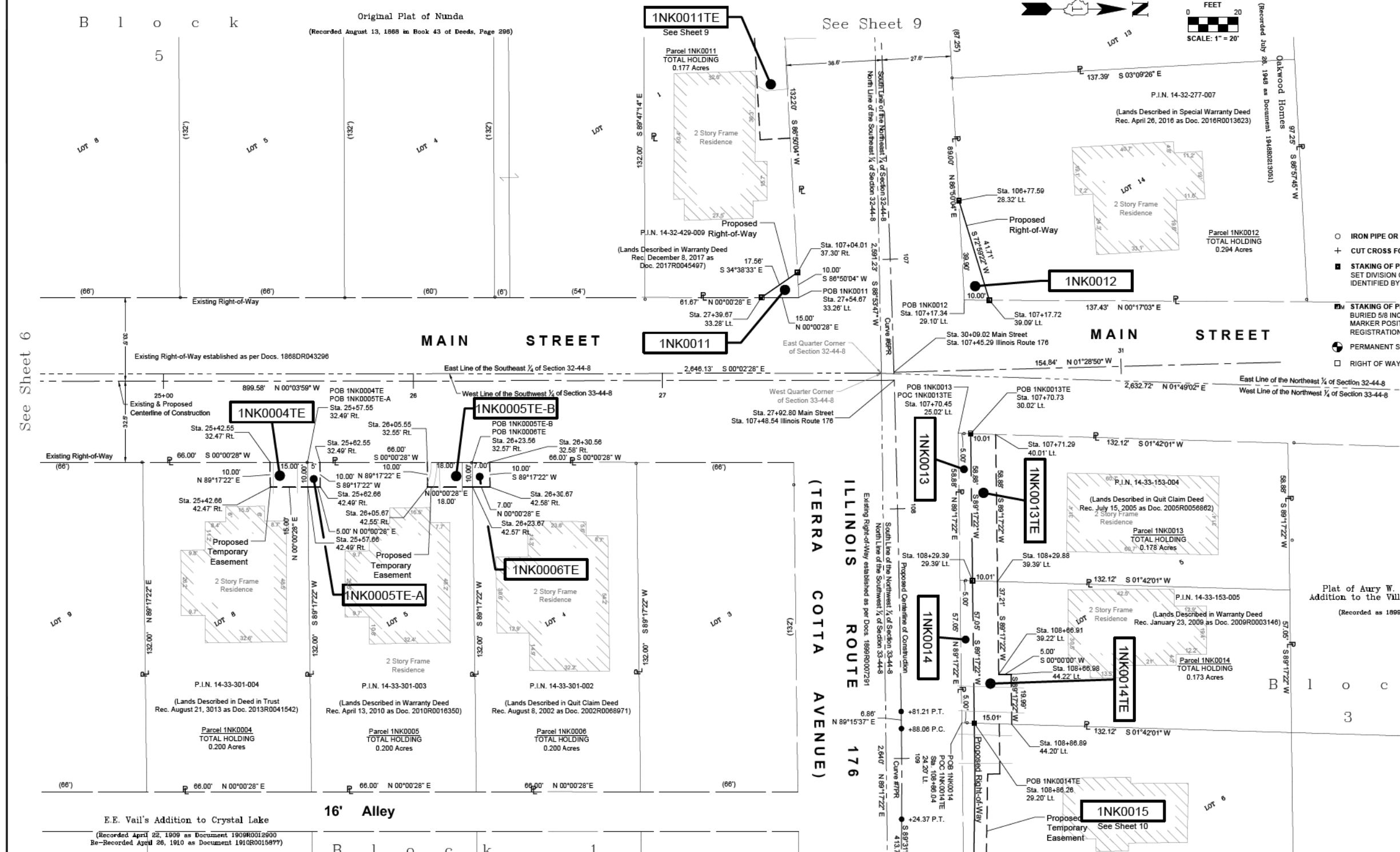
SCALE: NONE SHEET 6 OF 13 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	15-00124-00-PV	MCHENRY	121	58
CONTRACT NO. 61H27				
ILLINOIS FED. AID PROJECT				



PART OF SECTION 32 & 33, TOWNSHIP 44 NORTH, RANGE 8, EAST OF THIRD PRINCIPAL MERIDIAN, IN MCHENRY COUNTY, ILLINOIS

LEGEND



- Notes:
- Bearings and distances are referenced to Illinois State Plane Coordinate System, East Zone, North American Datum of 1983, "grid" (2011 adjustment)
  - Coordinates are based on Illinois State Plane Coordinate System, East Zone, North American Datum of 1983, "grid" (2011 adjustment)
  - All dimensions are measured unless otherwise noted.
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STATE OF ILLINOIS )  
 COUNTY OF MCHENRY )

THIS IS TO CERTIFY THAT I, ANTHONY E. BIANCHINI, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 32 & 33, TOWNSHIP 44 NORTH, RANGE 8, EAST OF THE THIRD PRINCIPAL MERIDIAN, MCHENRY COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT CRYSTAL LAKE, ILLINOIS THIS 29th DAY OF JULY, 2019 A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-003603  
 LICENSE EXPIRATION DATE: NOVEMBER 30, 2020

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

ANTHONY E. BIANCHINI  
 035-003603  
 PROFESSIONAL  
 LAND SURVEYOR  
 STATE OF  
 ILLINOIS  
 CRYSTAL LAKE, ILLINOIS

"LICENSE EXPIRES 11-30-2020"

PARCEL NUMBER	TOTAL HOLDING ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA		PARCEL INDEX NUMBER
					ACRES	SQUARE FEET	
See Sheet 3 for Area Table							

**PLAT OF HIGHWAYS**

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 FAU 124 / MAIN STREET

LIMITS : CRYSTAL LAKE AVENUE TO ILLINOIS ROUTE 176  
 SECTION : 15-00124-00-PV  
 COUNTY : MCHENRY  
 JOB NO. : R-91-022-19

STA. 25+00 TO STA. 31+50  
 SCALE : 1" = 20'  
 SHEET 7 OF 13 SHEETS

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

CONTRACT NO. 61H27

USER NAME = asramek	DESIGNED - DJS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAT OF HIGHWAYS
PLOT SCALE = 2,0000' / in.	CHECKED - AKS	REVISOR - KAR	SCALE: NONE	SHEET 7 OF 13 SHEETS
PLOT DATE = 8/27/2021	DATE - 08-26-2021	FILE - 181171_sht-Plat.dgn	TO STA.	TO STA.

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM  
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 Plotted: 3/18/2019 @ 12:53 PM By: 5544EB  
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PART OF SECTION 32, TOWNSHIP 44 NORTH, RANGE 8, EAST OF THIRD PRINCIPAL MERIDIAN, IN MCHENRY COUNTY, ILLINOIS

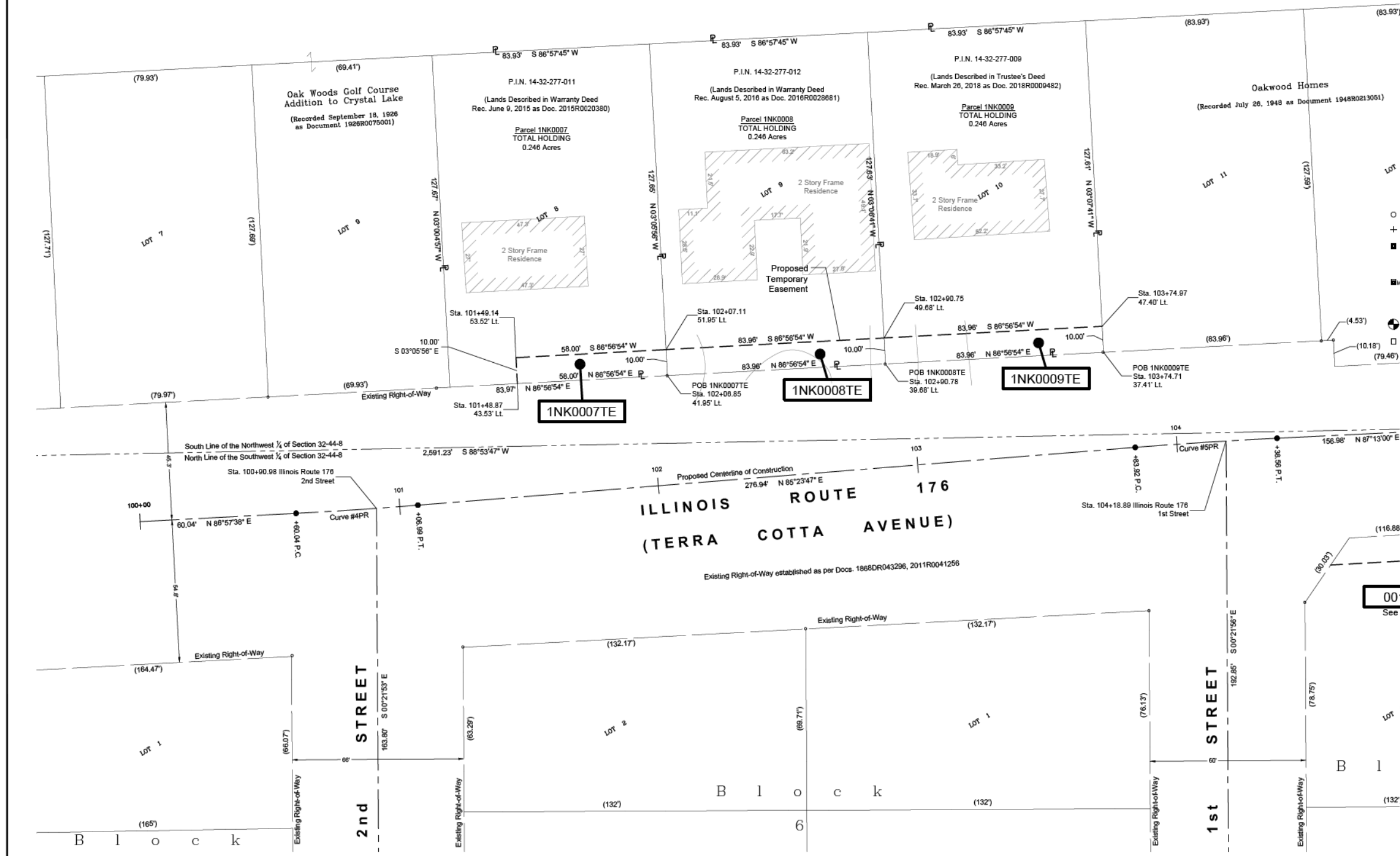
LEGEND



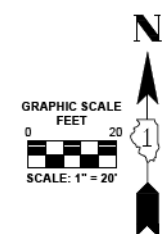
- SECTION / QUARTER SECTION LINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- EXISTING EASEMENT
- PROPOSED EASEMENT
- AC- EXISTING ACCESS CONTROL LINE
- AC- PROPOSED ACCESS CONTROL LINE
- 129.32' MEASURED DIMENSION
- 129.32' (COMP) COMPUTED DIMENSION
- (129.32') RECORDED DIMENSION
- EXISTING BUILDING

- IRON PIPE OR ROD FOUND
- ⊕ "MAG" NAIL SET
- + CUT CROSS FOUND OR SET
- 5/8" REBAR SET
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYOR'S REGISTRATION NUMBER.
- 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 SURVEYOR'S REGISTRATION NUMBER.
- ⊕ PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET

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See Sheet 9



**BAXTER & WOODMAN**  
Consulting Engineers

8075 RIDGEFIELD ROAD • CRYSTAL LAKE, IL 60012  
PHONE: 815-459-1200 • FAX: 815-455-0400

**PLAT OF HIGHWAYS**

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
FAU 124 / MAIN STREET

LIMITS : CRYSTAL LAKE AVENUE TO ILLINOIS ROUTE 176 COUNTY : MCHENRY  
SECTION : 15-00124-00-PV JOB NO. : R-91-022-19  
STA. 100+00 TO STA. 104+50  
SCALE : 1" = 20' SHEET 8 OF 13 SHEETS

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

PARCEL NUMBER	TOTAL HOLDING ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA		PARCEL INDEX NUMBER
					ACRES	SQUARE FEET	
1NK0007TE	0.246	N/A	N/A	0.246	0.013	580	14-32-277-011
1NK0008TE	0.246	N/A	N/A	0.246	0.019	840	14-32-277-012
1NK0009TE	0.246	N/A	N/A	0.246	0.019	840	14-32-277-009

STATE OF ILLINOIS )  
COUNTY OF MCHENRY )

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DATED AT CRYSTAL LAKE, ILLINOIS THIS 29th DAY OF JULY, 2019 A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-003603  
LICENSE EXPIRATION DATE: NOVEMBER 30, 2020

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



"LICENSE EXPIRES 11-30-2020"

Original Plat of Nunda  
(Recorded August 13, 1868 in Book 43 of Deeds, Page 296)

REVISION DATE: 07-29-2019 REVISION MADE BY: AEB

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STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM  
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2022  
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USER NAME = asramek	DESIGNED - DJS	REVISED -
PLOT SCALE = 2,000' / in.	DRAWN - KAR	REVISED -
PLOT DATE = 8/27/2021	CHECKED - AKS	REVISED -
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**PLAT OF HIGHWAYS**

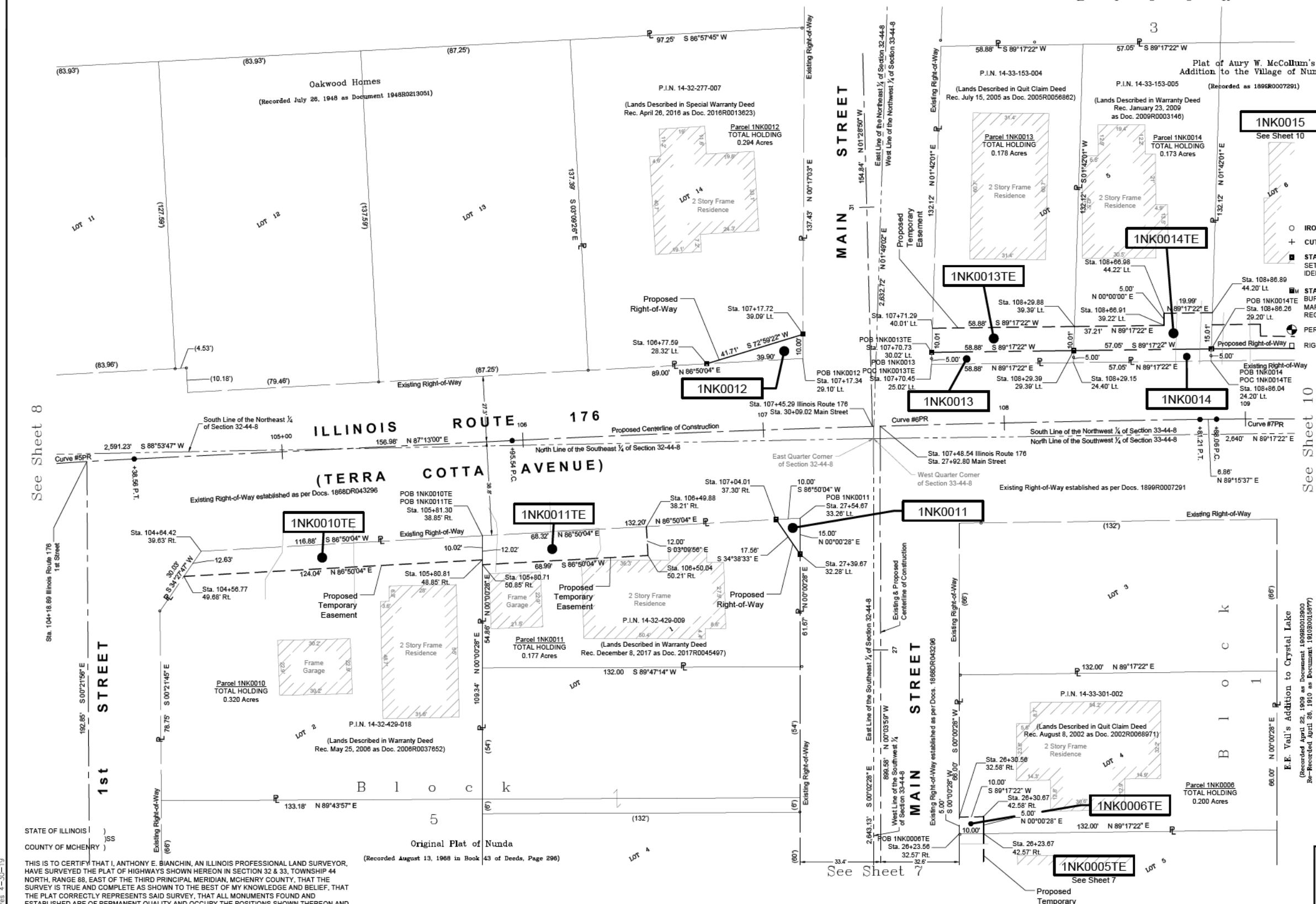
SCALE: NONE SHEET 8 OF 13 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	15-00124-00-PV	MCHENRY	121	60
				CONTRACT NO. 61H27
				ILLINOIS FED. AID PROJECT

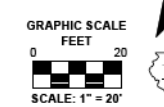
PART OF SECTION 32 & 33, TOWNSHIP 44 NORTH, RANGE 8, EAST OF THIRD PRINCIPAL MERIDIAN, IN MCHENRY COUNTY, ILLINOIS

Block 3

LEGEND



- Notes:
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**BAXTER & WOODMAN**  
Consulting Engineers  
8675 RIDGEFIELD ROAD • CRYSTAL LAKE, IL 60012  
PHONE: 815-459-1200 • FAX: 815-455-0400

**PLAT OF HIGHWAYS**  
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
FAU 124 / MAIN STREET

LIMITS : CRYSTAL LAKE AVENUE TO ILLINOIS ROUTE 176  
SECTION : 15-00124-00-PV  
COUNTY : MCHENRY  
JOB NO. : R-91-022-19

STA. 104+25 TO STA. 109+25  
SCALE : 1" = 20' SHEET 9 OF 13 SHEETS

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

PARCEL NUMBER	TOTAL HOLDING ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA		PARCEL INDEX NUMBER
					ACRES	SQUARE FEET	
See Sheet 3 for Area Table							

STATE OF ILLINOIS  
COUNTY OF MCHENRY

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DATED AT CRYSTAL LAKE, ILLINOIS THIS 29th DAY OF JULY, 2019 A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-003603  
LICENSE EXPIRATION DATE: NOVEMBER 30, 2020

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

ANTHONY E. BIANCHIN  
035-003603  
PROFESSIONAL LAND SURVEYOR  
STATE OF ILLINOIS  
CRYSTAL LAKE, ILLINOIS

"LICENSE EXPIRES 11-30-2020"

**BAXTER & WOODMAN**  
Consulting Engineers

USER NAME = asramek	DESIGNED - DJS	REVISED -
PLOT SCALE = 2,000' / in.	DRAWN - KAR	REVISED -
PLOT DATE = 8/27/2021	CHECKED - AKS	REVISED -
	DATE - 08-26-2021	FILE - 181171_sht-Plat.dgn

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**PLAT OF HIGHWAYS**

SCALE: NONE SHEET 9 OF 13 SHEETS STA. TO STA.

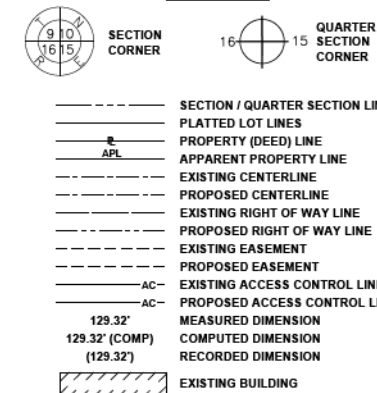
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	15-00124-00-PV	MCHENRY	121	61
CONTRACT NO. 61H27				
ILLINOIS FED. AID PROJECT				

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State of Illinois - Professional Design Firm  
License No. - 184-001121 - Expires 4-30-19

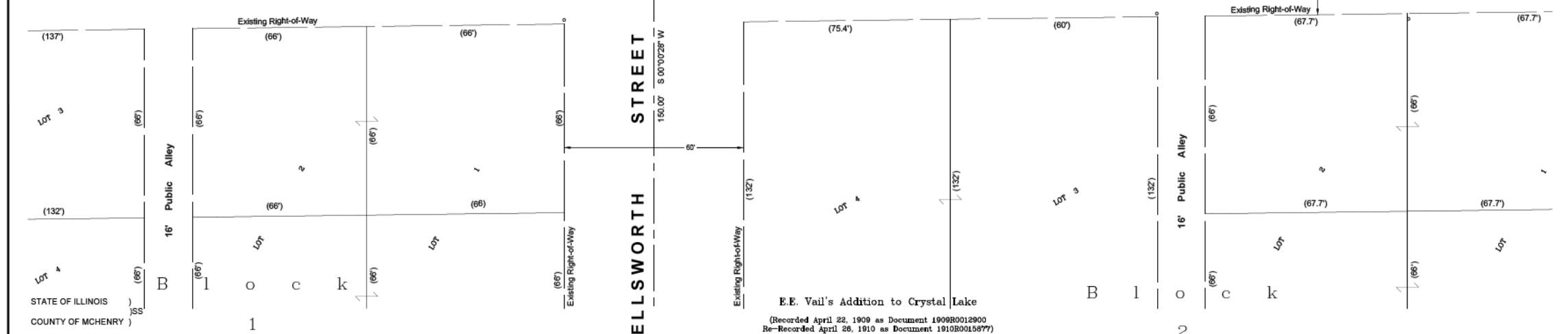
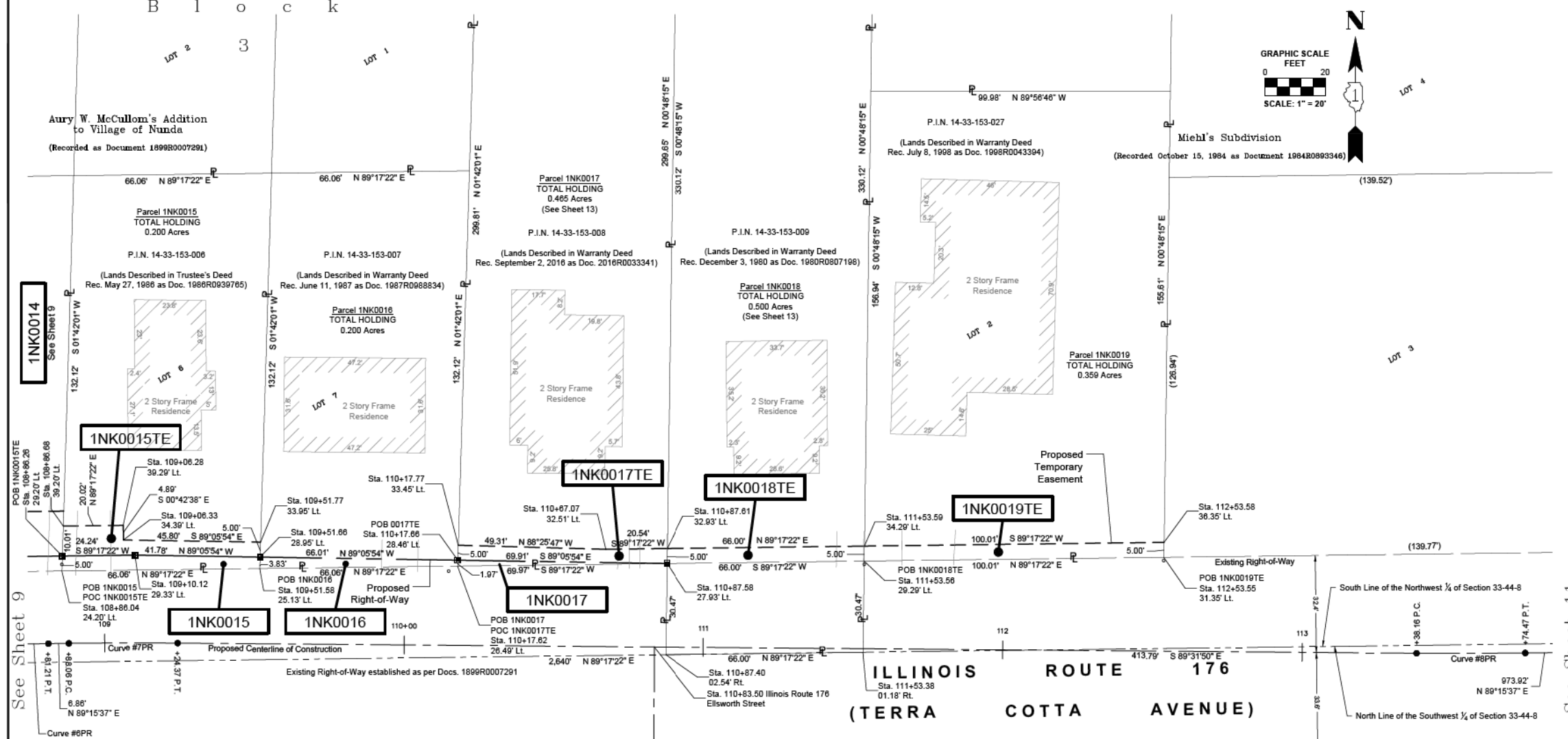
PART OF SECTION 33, TOWNSHIP 44 NORTH, RANGE 8, EAST OF THIRD PRINCIPAL MERIDIAN, IN MCHENRY COUNTY, ILLINOIS

LEGEND



- IRON PIPE OR ROD FOUND
- + CUT CROSS FOUND OR SET
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYOR'S REGISTRATION NUMBER.
- 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 SURVEYOR'S REGISTRATION NUMBER.
- ⊕ PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET
- ⊕ "MAG" NAIL SET
- 5/8" REBAR SET

Notes:  
 • Bearings and distances are referenced to Illinois State Plane Coordinate System, East Zone, North American Datum of 1983, "grid" (2011 adjustment)  
 • Coordinates are based on Illinois State Plane Coordinate System, East Zone, North American Datum of 1983, "grid" (2011 adjustment)  
 • All dimensions are measured unless otherwise noted.  
 • All measured and calculated distances are grid. To obtain ground distances, divide grid distances by the combination factor of 0.999975.



THIS IS TO CERTIFY THAT I, ANTHONY E. BIANCHINI, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 33, TOWNSHIP 44 NORTH, RANGE 8, EAST OF THE THIRD PRINCIPAL MERIDIAN, MCHENRY COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT CRYSTAL LAKE, ILLINOIS THIS 29th DAY OF JULY, 2019 A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-003603  
 LICENSE EXPIRATION DATE: NOVEMBER 30, 2020

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



PARCEL NUMBER	TOTAL HOLDING ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA		PARCEL INDEX NUMBER
					ACRES	SQUARE FEET	
See Sheet 3 for Area Table							

**BAXTER & WOODMAN**  
 Consulting Engineers  
 8075 RIDGEFIELD ROAD • CRYSTAL LAKE, IL 60012  
 PHONE: 815-459-1200 • FAX: 815-455-0400

**PLAT OF HIGHWAYS**

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 FAU 124 / MAIN STREET

LIMITS: CRYSTAL LAKE AVENUE TO ILLINOIS ROUTE 176 COUNTY: MCHENRY  
 SECTION: 15-00124-00-PV JOB NO.: R-91-022-19  
 STA. 109+00 TO STA. 113+75  
 SCALE: 1" = 20' SHEET 10 OF 13 SHEETS

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

IDOT USE ONLY

REVISION DATE: 07-29-2019 REVISION MADE BY: AEB

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM  
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 Plotted: 3/18/2019 @ 12:53 PM By: 5544EB  
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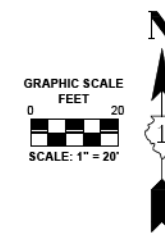


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	DATE - 08-26-2021	FILE - 181171_sht-Plat.dgn

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PLAT OF HIGHWAYS			
F.A.P. RTE. 335	SECTION 15-00124-00-PV	COUNTY MCHENRY	TOTAL SHEETS 121 SHEET NO. 62
SCALE: NONE SHEET 10 OF 13 SHEETS STA. TO STA.			CONTRACT NO. 61H27
ILLINOIS FED. AID PROJECT			

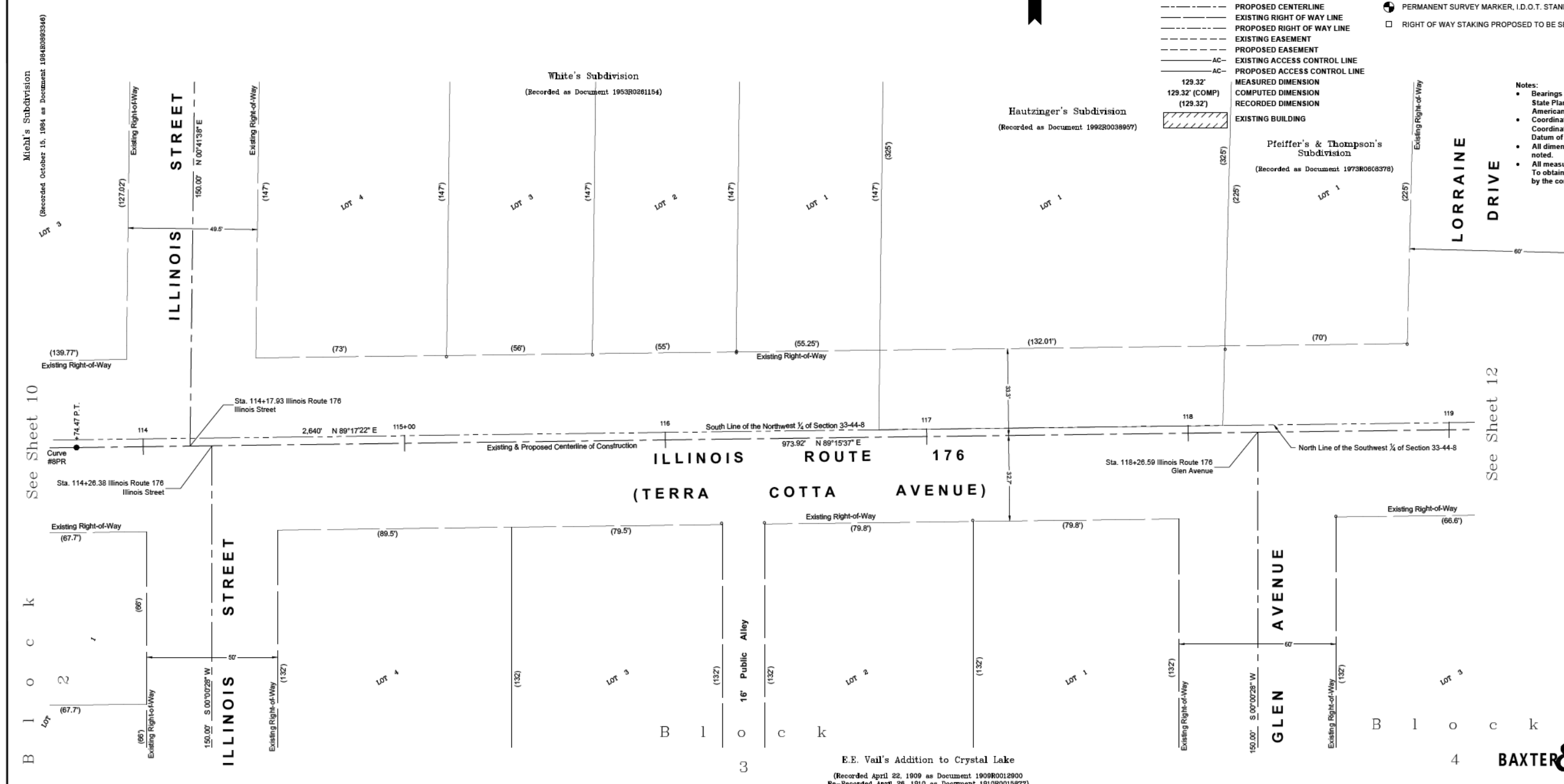
PART OF SECTION 33, TOWNSHIP 44 NORTH, RANGE 8, EAST OF THIRD PRINCIPAL MERIDIAN, IN MCHENRY COUNTY, ILLINOIS



LEGEND

- IRON PIPE OR ROD FOUND
- ⊕ "MAG" NAIL SET
- + CUT CROSS FOUND OR SET
- 5/8" REBAR SET
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYOR'S REGISTRATION NUMBER.
- 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 SURVEYOR'S REGISTRATION NUMBER.
- ⊕ PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET

- SECTION / QUARTER SECTION LINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- EXISTING EASEMENT
- PROPOSED EASEMENT
- AC- EXISTING ACCESS CONTROL LINE
- AC- PROPOSED ACCESS CONTROL LINE
- MEASURED DIMENSION
- COMPUTED DIMENSION
- RECORDED DIMENSION
- EXISTING BUILDING



See Sheet 10

See Sheet 12

STATE OF ILLINOIS )  
 COUNTY OF MCHENRY )

THIS IS TO CERTIFY THAT I, ANTHONY E. BIANCHIN, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 33, TOWNSHIP 44 NORTH, RANGE 8, EAST OF THE THIRD PRINCIPAL MERIDIAN, MCHENRY COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT CRYSTAL LAKE, ILLINOIS THIS 29th DAY OF JULY, 2019 A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-003603  
 LICENSE EXPIRATION DATE: NOVEMBER 30, 2020

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



"LICENSE EXPIRES 11-30-2020"

E.E. Vail's Addition to Crystal Lake  
 (Recorded April 22, 1909 as Document 1909R0012900  
 Re-recorded April 26, 1910 as Document 1910R0015977)

**BAXTER & WOODMAN**  
 Consulting Engineers

8675 RIDGEFIELD ROAD • CRYSTAL LAKE, IL 60012  
 PHONE: 815-459-1200 • FAX: 815-455-0400

**PLAT OF HIGHWAYS**

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 FAU 124 / MAIN STREET

LIMITS : CRYSTAL LAKE AVENUE TO ILLINOIS ROUTE 176 COUNTY : MCHENRY  
 SECTION : 15-00124-00-PV JOB NO. : R-91-022-19  
 STA. 113+75 TO STA. 119+00  
 SCALE : 1" = 20' SHEET 11 OF 13 SHEETS

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

IDOT USE ONLY

REVISION DATE: 07-29-2019 REVISION MADE BY: AEB

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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

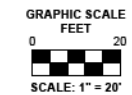
**PLAT OF HIGHWAYS**

SCALE: NONE SHEET 11 OF 13 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	15-00124-00-PV	MCHENRY	121	63
CONTRACT NO. 61H27				
ILLINOIS FED. AID PROJECT				

PART OF SECTION 33, TOWNSHIP 44 NORTH, RANGE 8, EAST OF THIRD PRINCIPAL MERIDIAN, IN MCHENRY COUNTY, ILLINOIS

LEGEND



- SECTION / QUARTER SECTION LINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- EXISTING EASEMENT
- PROPOSED EASEMENT
- AC- EXISTING ACCESS CONTROL LINE
- AC- PROPOSED ACCESS CONTROL LINE
- MEASURED DIMENSION (129.32')
- COMPUTED DIMENSION (129.32')
- RECORDED DIMENSION (129.32')
- EXISTING BUILDING

- IRON PIPE OR ROD FOUND
- ⊕ "MAG" NAIL SET
- + CUT CROSS FOUND OR SET
- 5/8" REBAR SET
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYOR'S REGISTRATION NUMBER.
- 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 SURVEYOR'S REGISTRATION NUMBER.
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- RIGHT OF WAY STAKING PROPOSED TO BE SET

Notes:

- Bearings and distances are referenced to Illinois State Plane Coordinate System, East Zone, North American Datum of 1983, "grid" (2011 adjustment)
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- All dimensions are measured unless otherwise noted.
- All measured and calculated distances are grid. To obtain ground distances, divide grid distances by the combination factor of 0.999975.



See Sheet 11

E.E. Vail's Addition to Crystal Lake  
 (Recorded April 22, 1909 as Document 1909R0012900  
 Re-Recorded April 26, 1910 as Document 1910R0015977)

STATE OF ILLINOIS )  
 ) SS  
 COUNTY OF MCHENRY )

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DATED AT CRYSTAL LAKE, ILLINOIS THIS 29th DAY OF JULY, 2019 A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-003603  
 LICENSE EXPIRATION DATE: NOVEMBER 30, 2020

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



"LICENSE EXPIRES 11-30-2020"

**BAXTER & WOODMAN**  
 Consulting Engineers

8075 RIDGEFIELD ROAD • CRYSTAL LAKE, IL 60012  
 PHONE: 815-459-1200 • FAX: 815-455-0400

**PLAT OF HIGHWAYS**

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 FAU 124 / MAIN STREET

LIMITS : CRYSTAL LAKE AVENUE TO ILLINOIS ROUTE 176 COUNTY : MCHENRY  
 SECTION : 15-00124-00-PV JOB NO. : R-91-022-19  
 STA. 119+00 TO STA. 123+47  
 SCALE : 1" = 20' SHEET 12 OF 13 SHEETS

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

IDOT USE ONLY

REVISION DATE: 07-29-2019 REVISION MADE BY: AEB

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 License No. - 184-001121 - Expires 4-30-19



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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

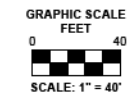
**PLAT OF HIGHWAYS**

SCALE: NONE SHEET 12 OF 13 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	15-00124-00-PV	MCHENRY	121	64
				CONTRACT NO. 61H27
		ILLINOIS	FED. AID PROJECT	

PART OF SECTION 32 & 33, TOWNSHIP 44 NORTH, RANGE 8, EAST OF THIRD PRINCIPAL MERIDIAN, IN MCHENRY COUNTY, ILLINOIS

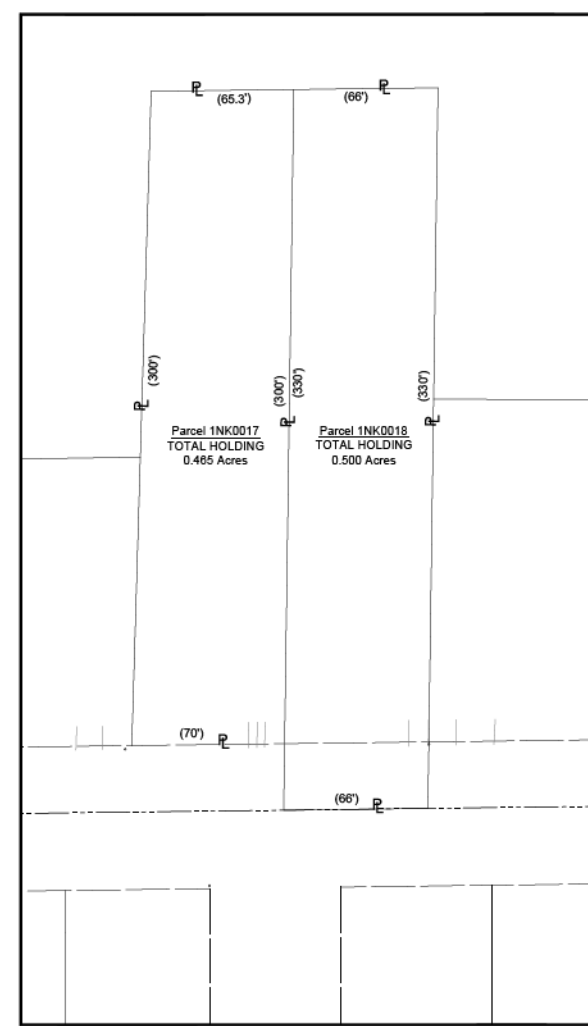
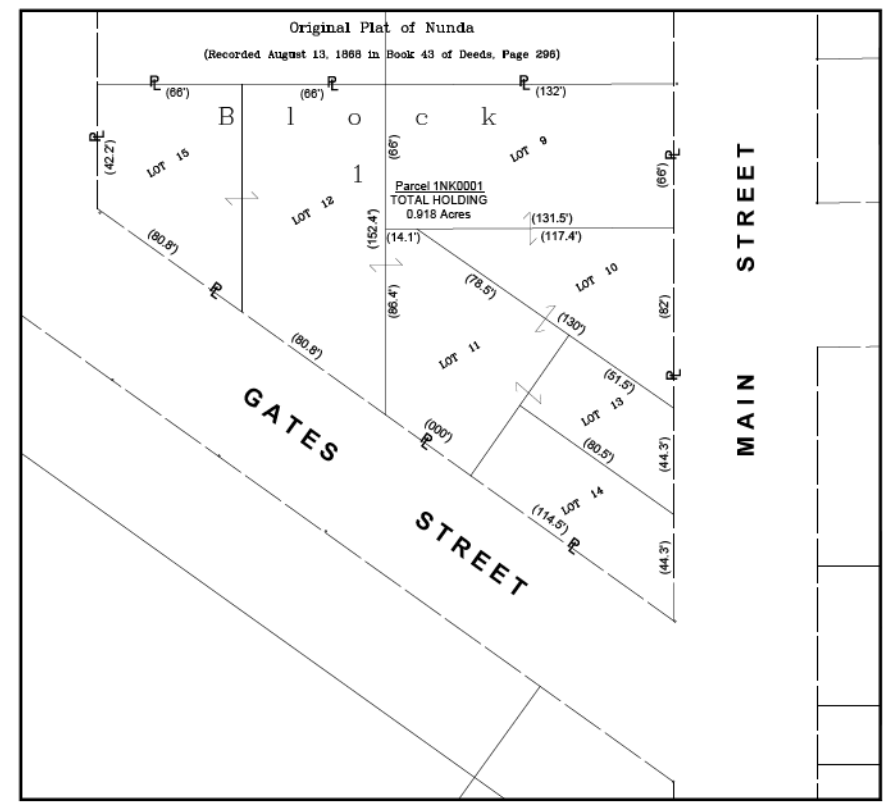
LEGEND



- SECTION / QUARTER SECTION LINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
- APL APPARENT PROPERTY LINE
- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- EXISTING EASEMENT
- PROPOSED EASEMENT
- AC EXISTING ACCESS CONTROL LINE
- AC PROPOSED ACCESS CONTROL LINE
- 129.32' MEASURED DIMENSION
- 129.32' (COMP) COMPUTED DIMENSION
- (129.32) RECORDED DIMENSION
- [Hatched Box] EXISTING BUILDING

- IRON PIPE OR ROD FOUND
- + CUT CROSS FOUND OR SET
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STATE OF ILLINOIS )  
 ) SS  
 COUNTY OF MCHENRY )

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 PHONE: 815-459-1200 • FAX: 815-455-0400

**PLAT OF HIGHWAYS**

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 FAU 124 / MAIN STREET

LIMITS : CRYSTAL LAKE AVENUE TO ILLINOIS ROUTE 176 COUNTY : MCHENRY  
 SECTION : 15-00124-00-PV JOB NO. : R-91-022-19  
 STA. N/A TO STA. N/A  
 SCALE : 1" = 40' SHEET 13 OF 13 SHEETS

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

IDOT USE ONLY

REVISION DATE: 07-29-2019 REVISION MADE BY: AEB

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	DATE - 08-26-2021	FILE - 181171_sht-Plat.dgn

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

**PLAT OF HIGHWAYS**

SCALE: NONE SHEET 13 OF 13 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	15-00124-00-PV	MCHENRY	121	65
CONTRACT NO. 61H27				
ILLINOIS FED. AID PROJECT				

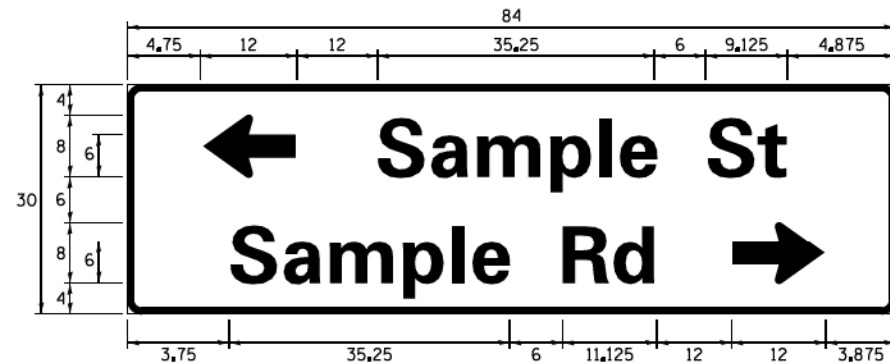
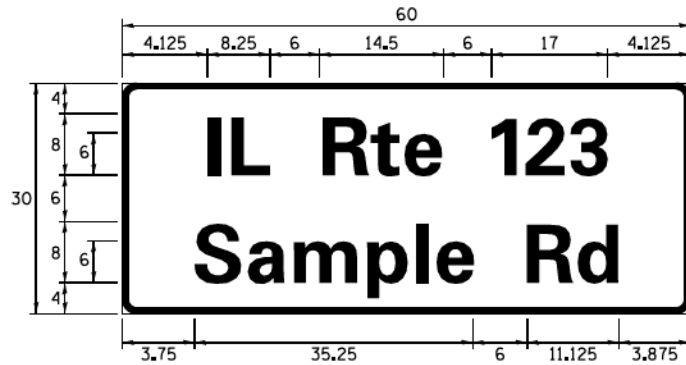
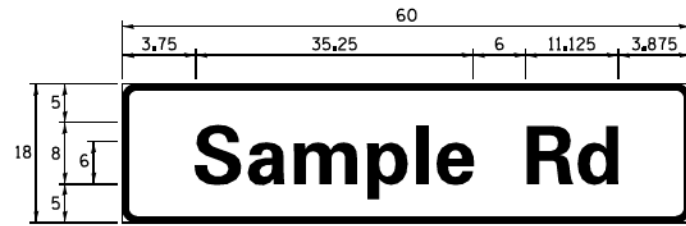








**SIGN PANEL – TYPE 1 OR TYPE 2**



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D OR C	-	1 OR 2	ZZ	-

ALL DIMENSIONS ARE IN INCHES EXCEPT NOTED OTHERWISE

**COMMON STREET NAME ABBREVIATIONS AND WIDTHS**

NAME	ABBREVIATION	WIDTH (INCH)	
		SERIES "C"	SERIES "D"
AVENUE	Ave	15,000	18,250
BOULEVARD	Blvd	17,125	20,000
CIRCLE	Cir	11,125	13,000
COURT	Ct	8,250	9,625
DRIVE	Dr	8,625	10,125
HIGHWAY	Hwy	18,375	22,000
ILLINOIS	IL	7,000	8,250
LANE	Ln	9,125	10,750
PARKWAY	Pkwy	23,375	27,375
PLACE	Pl	7,125	7,750
ROAD	Rd	9,625	11,125
ROUTE	Rte	12,625	14,500
STREET	St	8,000	9,125
TERRACE	Ter	12,625	14,625
TRAIL	Tr	7,750	9,125
UNITED STATES	US	10,375	12,250

**GENERAL NOTES**

- WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
- ALL SIGNS SHALL CONSIST OF A WHITE LEGEND AND BORDER (TYPE ZZ SHEETING) ON A GREEN BACKGROUND (TYPE ZZ SHEETING)
- THE SIGN LENGTH SHALL BE IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHALL NOT EXCEED 8'-0". ALL BORDERS SHALL BE 3/4" WIDE. CORNER RADIUS SHALL BE 1-7/8". THE SPACING BETWEEN THE WORDS SHOULD BE 6", IF POSSIBLE, BUT MAY BE REDUCED TO 5" WHEN SPACING IS CRITICAL. A MINIMUM OF 2-1/2" SHALL BE INCLUDED BETWEEN THE WORD AND THE RIGHT AND LEFT EDGES OF THE SIGN.
- A PREFERRED METHOD FOR THE SIGN DESIGN IS TO USE SERIES "D" LETTER ON A ONE-LINE SIGN 18" IN HEIGHT AND A MAXIMUM OF 8'-0" IN WIDTH. IF SERIES "D" DOES NOT FIT ON A 8'-0" SIGN, THEN SERIES "C" SHOULD BE TRIED. IF SERIES "C" DOES NOT FIT ON A 8'-0" SIGN, A 30" HIGH TWO-LINE SIGN CAN BE USED. THE CROSSROAD DESIGNATION AS TO STREET, AVENUE, ETC. SHOULD BE SPELLED OUT ON THE SECOND LINE, IF THE ABBREVIATION CANNOT FIT ON THE FIRST LINE.
- LED ILLUMINATED STREET NAME SIGNS CAN BE USED IN PLACE OF REGULAR SIGN PANELS BUT ANY SPECIAL WORDING AND SYMBOLGY MUST BE APPROVED BY THE DEPARTMENT. GENERAL DESIGN REQUIREMENT AS LISTED ABOVE (COLOR, FONT, SIZE, ETC.) MUST BE FOLLOWED.
- SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS.

**LOCAL SUPPLIERS:**

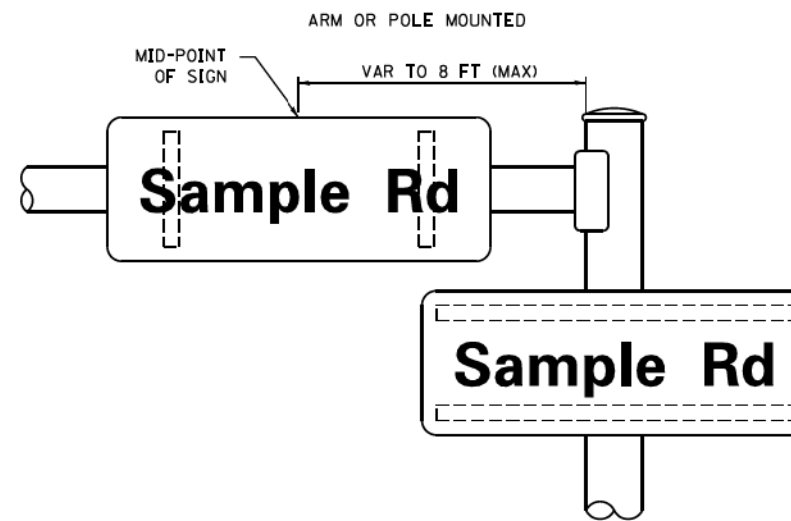
- J.O. HERBERT COMPANY, INC  
MIDLOTHIAN, VA
- WESTERN REMAC, INC.  
WOODRIDGE, IL

**PARTS LISTING:**

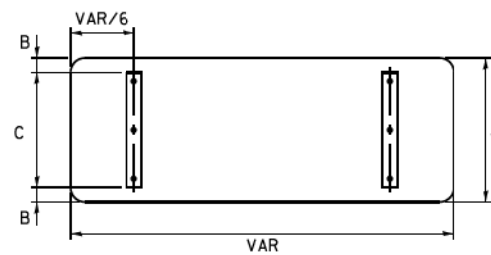
- SIGN CHANNEL PART \*HPN053 (MED. CHANNEL)  
SIGN SCREWS 1/4" x 14 x 1" H.W.H. #3  
BRACKETS SELF TAPPING WITH NEOPRENE WASHER  
PART \*HPN034 (UNIVERSAL)  
CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BACKET OF THE ABOVE PRODUCT.

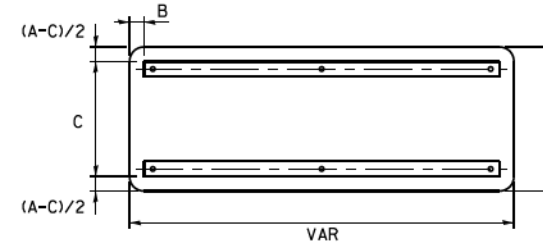
**MOUNTING LOCATION**



**SUPPORTING CHANNELS**



A	B	C
18"	2"	14"
30"	2"	24"



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

**STANDARD ALPHABETS SPACING CHART**

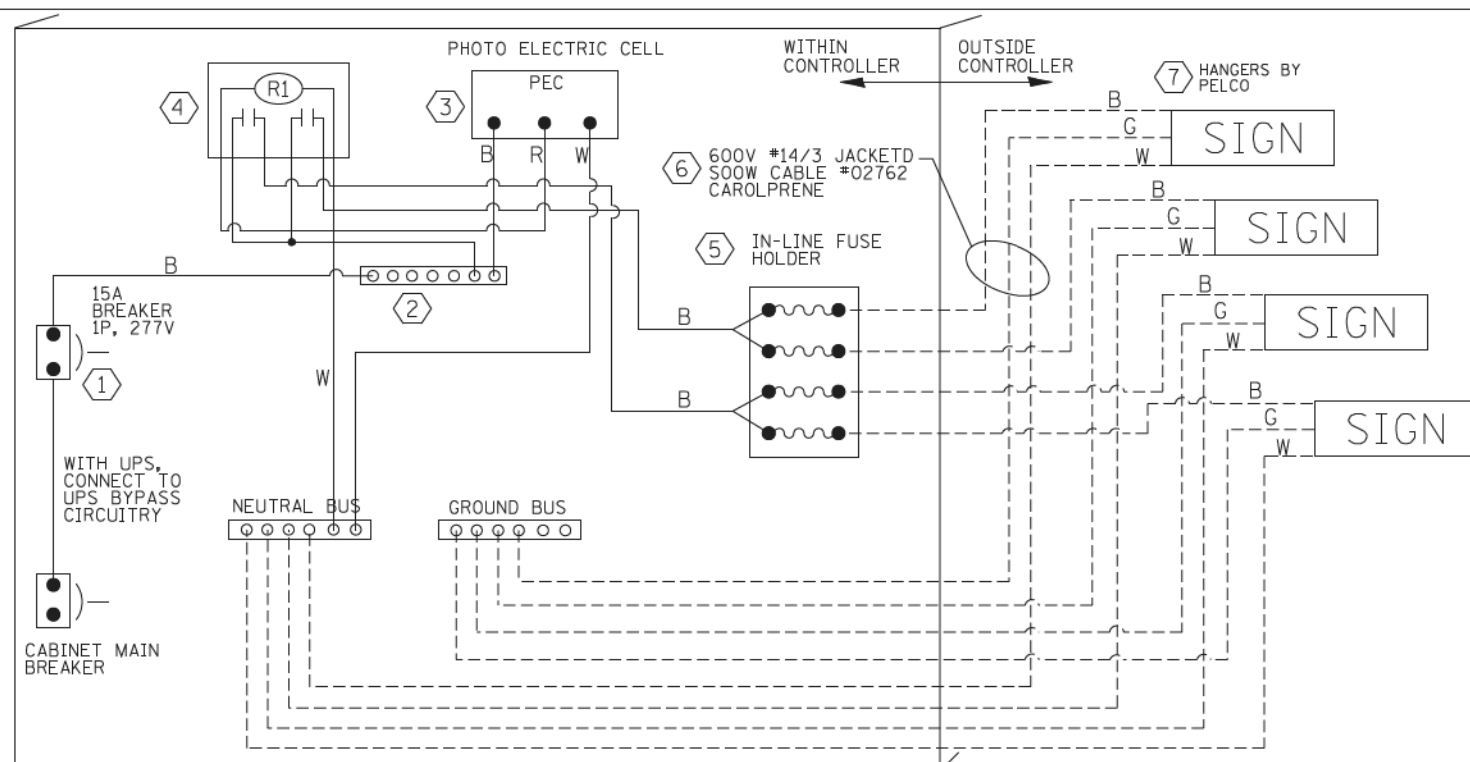
( 8" ) UPPER CASE AND ( 6" ) LOWER CASE

FHWA SERIES "C"				FHWA SERIES "D"			
CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)	CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)
A	0.240	5.122	0.240	A	0.240	6.804	0.240
B	0.880	4.482	0.480	B	0.960	5.446	0.400
C	0.720	4.482	0.720	C	0.800	5.446	0.800
D	0.880	4.482	0.720	D	0.960	5.446	0.800
E	0.880	4.082	0.480	E	0.960	4.962	0.400
F	0.880	4.082	0.240	F	0.960	4.962	0.240
G	0.720	4.482	0.720	G	0.800	5.446	0.800
H	0.880	4.482	0.880	H	0.960	5.446	0.960
I	0.880	1.120	0.880	I	0.960	1.280	0.960
J	0.240	4.082	0.880	J	0.240	5.122	0.960
K	0.880	4.482	0.480	K	0.960	5.604	0.400
L	0.880	4.082	0.240	L	0.960	4.962	0.240
M	0.880	5.284	0.880	M	0.960	6.244	0.960
N	0.880	4.482	0.880	N	0.960	5.446	0.960
O	0.720	4.722	0.720	O	0.800	5.684	0.800
P	0.880	4.482	0.720	P	0.960	5.446	0.240
Q	0.720	4.722	0.720	Q	0.800	5.684	0.800
R	0.880	4.482	0.480	R	0.960	5.446	0.400
S	0.480	4.482	0.480	S	0.400	5.446	0.400
T	0.240	4.082	0.240	T	0.240	4.962	0.240
U	0.880	4.482	0.880	U	0.960	5.446	0.960
V	0.240	4.962	0.240	V	0.240	6.084	0.240
W	0.240	6.084	0.240	W	0.240	7.124	0.240
X	0.240	4.722	0.240	X	0.400	5.446	0.400
Y	0.240	5.122	0.240	Y	0.240	6.884	0.240
Z	0.480	4.482	0.480	Z	0.400	5.446	0.400
a	0.320	3.842	0.640	a	0.400	4.562	0.720
b	0.720	4.082	0.480	b	0.800	4.802	0.480
c	0.480	4.002	0.240	c	0.480	4.722	0.240
d	0.480	4.082	0.720	d	0.480	4.802	0.800
e	0.480	4.082	0.320	e	0.480	4.722	0.320
f	0.320	2.480	0.160	f	0.320	2.882	0.160
g	0.480	4.082	0.720	g	0.480	4.802	0.800
h	0.720	4.082	0.640	h	0.800	4.722	0.720
i	0.720	1.120	0.720	i	0.800	1.280	0.800
j	0.000	2.320	0.720	j	0.000	2.642	0.800
k	0.720	4.322	0.160	k	0.800	5.122	0.160
l	0.720	1.120	0.720	l	0.800	1.280	0.800
m	0.720	6.724	0.640	m	0.800	7.926	0.720
n	0.720	4.082	0.640	n	0.800	4.722	0.720
o	0.480	4.082	0.480	o	0.480	4.882	0.480
p	0.720	4.082	0.480	p	0.800	4.802	0.480
q	0.480	4.082	0.720	q	0.480	4.802	0.800
r	0.720	2.642	0.160	r	0.800	3.042	0.160
s	0.320	3.362	0.240	s	0.320	3.762	0.240
t	0.080	2.882	0.080	t	0.080	3.202	0.080
u	0.640	4.082	0.720	u	0.720	4.722	0.800
v	0.160	4.722	0.160	v	0.160	5.684	0.160
w	0.160	7.524	0.160	w	0.160	9.046	0.160
x	0.000	5.202	0.000	x	0.000	6.244	0.000
y	0.160	4.962	0.160	y	0.160	6.004	0.160
z	0.240	3.362	0.240	z	0.240	4.002	0.240
1	0.720	1.680	0.880	1	0.800	2.000	0.960
2	0.480	4.482	0.480	2	0.800	5.446	0.800
3	0.480	4.482	0.480	3	1.440	5.446	0.800
4	0.240	4.962	0.720	4	0.160	6.004	0.960
5	0.480	4.482	0.480	5	0.800	5.446	0.800
6	0.720	4.482	0.720	6	0.800	5.446	0.800
7	0.240	4.482	0.720	7	0.560	5.446	0.560
8	0.480	4.482	0.480	8	0.800	5.446	0.800
9	0.480	4.482	0.480	9	0.800	5.446	0.800
0	0.720	4.722	0.720	0	0.800	5.684	0.800
-	0.240	2.802	0.240	-	0.240	2.802	0.240

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PLOT DATE = 7/31/2015	DATE - 10/01/2014	REVISED -					ILLINOIS FED. AID PROJECT				

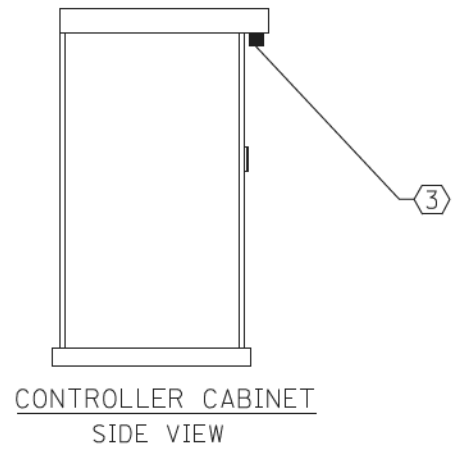
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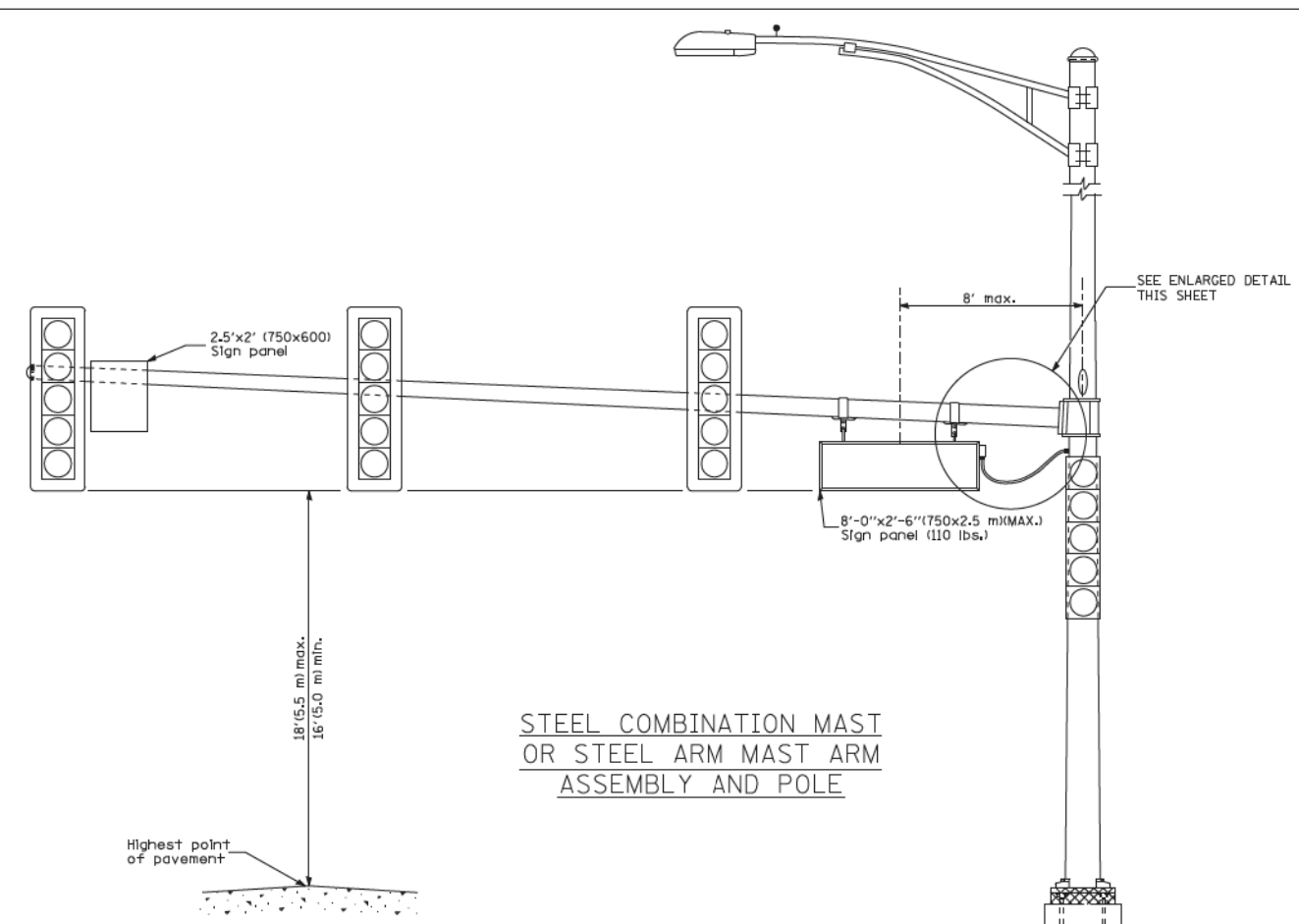
LED SIGN WIRING DETAIL

DESCRIPTION	MANUFACTURER	MODEL	NOTES
① CIRCUIT BREAKER		15 AMPERE	Molded case, Thermal Mag. min. R.I. of 14K R.M.S. symmetrical ampere at 277V.
② TERMINAL BLOCK	MARATHON	1502 DJSV	
③ PHOTO ELECTRIC CONTROL	FISHER PIERCE	B124-1.5-07762	
④ CONTROL RELAY	SQUARE D	8501X020V02	BOLT ON W/SCREW TERMINAL
⑤ INLINE FUSE HOLDER WITH 5 AMP FUSE	BUSSMAN	S-8000 BK/S-8-3-4-R	
⑥ ELECTRIC CABLE, NO. 14, 3/C (BLACK, WHITE, GREEN)	CAROLPRENE/SOOW	02762	
⑦ SIGN MOUNTING HARDWARE	PELCO	SE-5015	S.S. HARDWARE

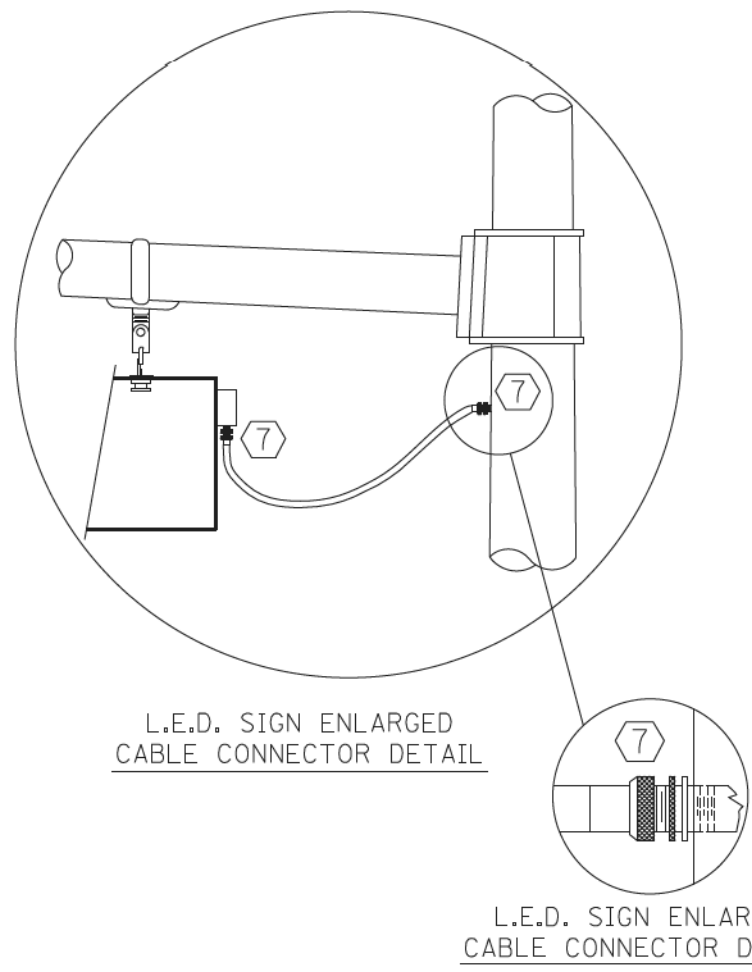
BILL OF MATERIALS



CONTROLLER CABINET SIDE VIEW

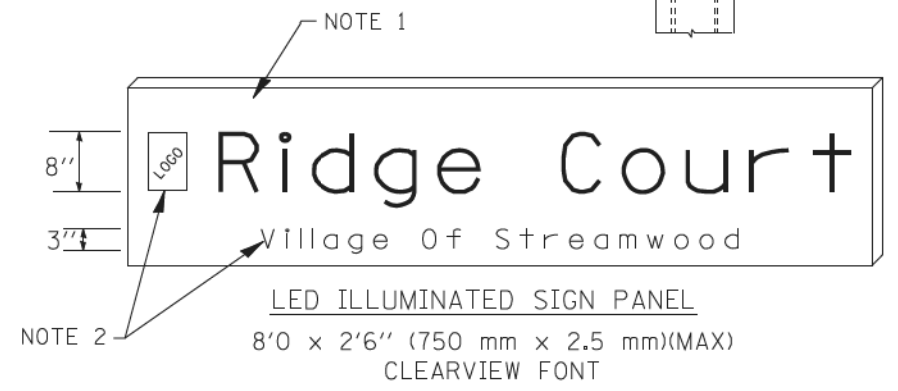


STEEL COMBINATION MAST OR STEEL ARM MAST ASSEMBLY AND POLE



L.E.D. SIGN ENLARGED CABLE CONNECTOR DETAIL

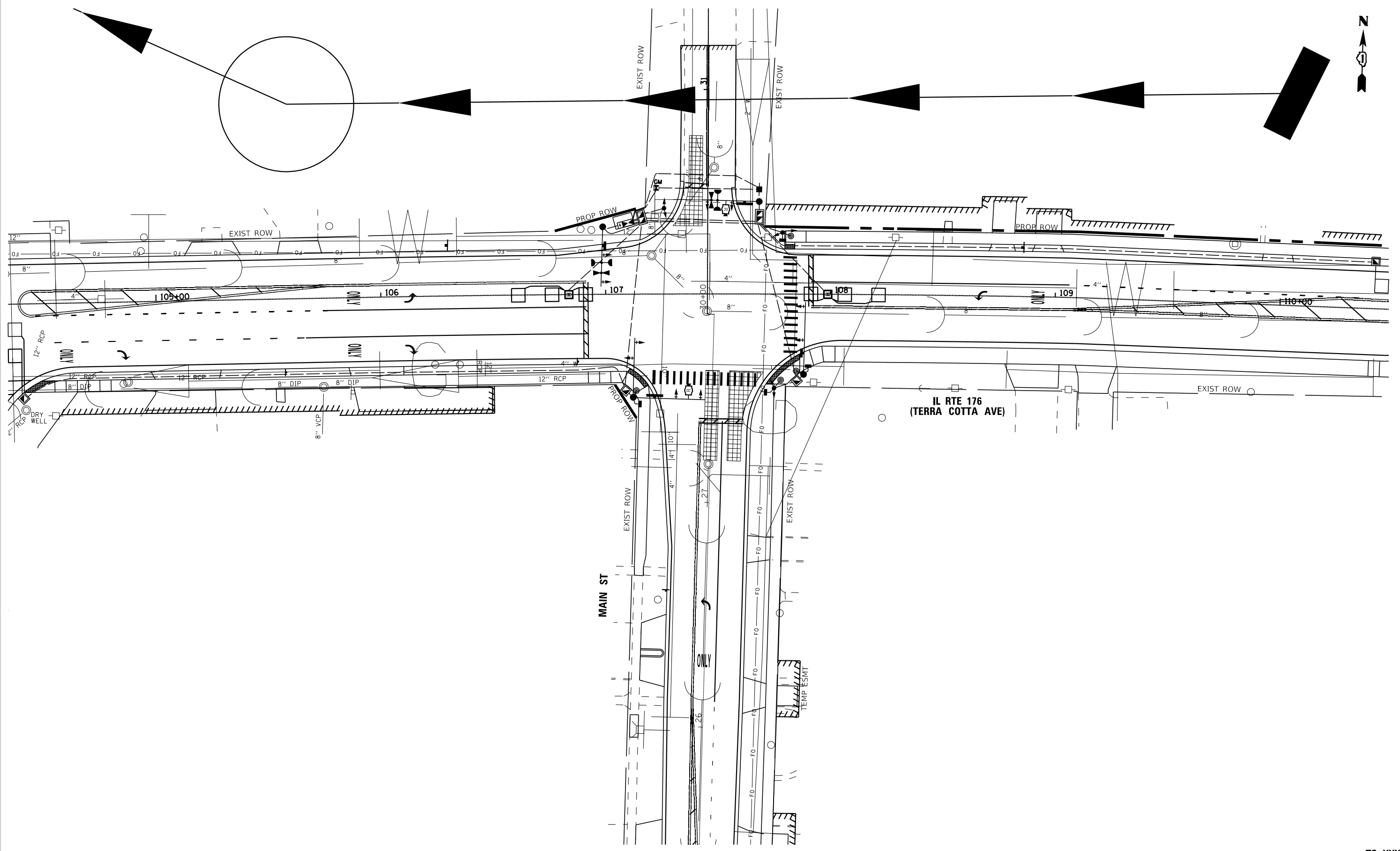
L.E.D. SIGN ENLARGED CABLE CONNECTOR DETAIL



NOTES:

- SIGNS SHALL BE DUAL SIDED. FRONT AND BACK OF SIGN WILL BE THE SAME.
- CERTAIN ADDITIONAL INFORMATION MAY BE ALLOWED ON THE SIGN. VERIFY WITH ENGINEER.
- SIGNS SHALL NOT BE ENERGIZED WHEN TRAFFIC SIGNALS ARE POWERED BY THE UPS. THE SIGNS SHALL BE CONNECTED TO THE UPS BYPASS CIRCUITRY.
- ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED:  
R = RED      BL = BLUE      W = WHITE  
B = BLACK      Y = YELLOW      G = GREEN
- ALL 120 VOLT SYSTEM AND ALL CONTROL WIRING SHALL BE #12AWG STRANDED UNLESS OTHERWISE INDICATED.
- ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM  
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

UTILITY INFORMATION SHEET  
 IL RTE 176 (TERRA COTTA AVE) AND MAIN ST

SCALE: 1" = 20' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	15-00124-00-PV	MCHENRY	121	70
CONTRACT NO. 61H27				
ILLINOIS FED. AID PROJECT				

TS XXXX  
 ECON XX

# TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED
CONTROLLER CABINET			HANDHOLE -SQUARE -ROUND	 	 	SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD		
COMMUNICATION CABINET			HEAVY DUTY HANDHOLE -SQUARE -ROUND	 	 	SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE		
MASTER CONTROLLER			DOUBLE HANDHOLE			PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
MASTER MASTER CONTROLLER			JUNCTION BOX			PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER		
UNINTERRUPTABLE POWER SUPPLY			RAILROAD CANTILEVER MAST ARM			ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
SERVICE INSTALLATION -(P) POLE MOUNTED			RAILROAD FLASHING SIGNAL			NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED		
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	 	 	RAILROAD CROSSING GATE			GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)		
TELEPHONE CONNECTION			RAILROAD CROSSBUCK			ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C		
STEEL MAST ARM ASSEMBLY AND POLE			RAILROAD CONTROLLER CABINET			COAXIAL CABLE		
ALUMINUM MAST ARM ASSEMBLY AND POLE			UNDERGROUND CONDUIT (UC), GALVANIZED STEEL			VENDOR CABLE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE			TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE			COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY			SYSTEM ITEM			FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F		
WOOD POLE			INTERSECTION ITEM			GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE		
GUY WIRE			REMOVE ITEM					
SIGNAL HEAD			RELOCATE ITEM					
SIGNAL HEAD WITH BACKPLATE			ABANDON ITEM					
SIGNAL HEAD OPTICALLY PROGRAMMED			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED					
FLASHER INSTALLATION -(FS) SOLAR POWERED	 	 	MAST ARM POLE AND FOUNDATION TO BE REMOVED					
PEDESTRIAN SIGNAL HEAD			SIGNAL POST AND FOUNDATION TO BE REMOVED					
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON			DETECTOR LOOP, TYPE 1					
RADAR DETECTION SENSOR			PREFORMED DETECTOR LOOP					
VIDEO DETECTION CAMERA			SAMPLING (SYSTEM) DETECTOR					
RADAR/VIDEO DETECTION ZONE			INTERSECTION AND SAMPLING (SYSTEM) DETECTOR					
PAN, TILT, ZOOM (PTZ) CAMERA			QUEUE AND SAMPLING (SYSTEM) DETECTOR					
EMERGENCY VEHICLE LIGHT DETECTOR			WIRELESS DETECTOR SENSOR					
CONFIRMATION BEACON			WIRELESS ACCESS POINT					
WIRELESS INTERCONNECT								
WIRELESS INTERCONNECT RADIO REPEATER								

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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE**  
**STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

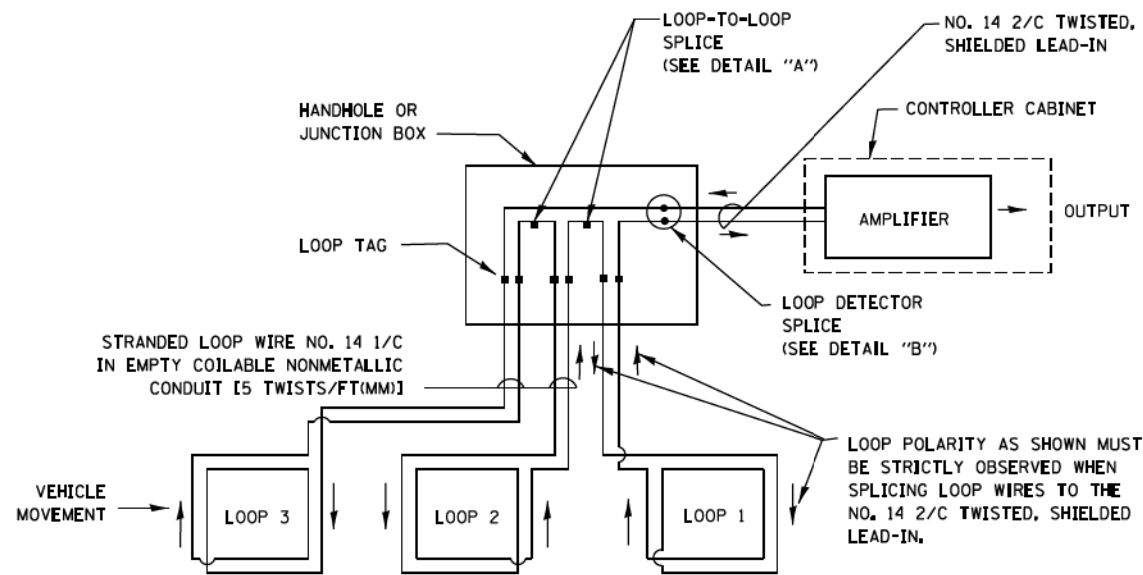
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F.A. RTE. 124	SECTION 15-00124-00-PV	COUNTY MCHENRY	TOTAL SHEETS 121	SHEET NO. 71
TS-05		CONTRACT NO. 61H27		
ILLINOIS FED. AID PROJECT				

\*F.A.P./E.A.U.

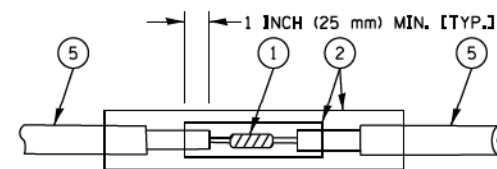
**LOOP DETECTOR NOTES**

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.

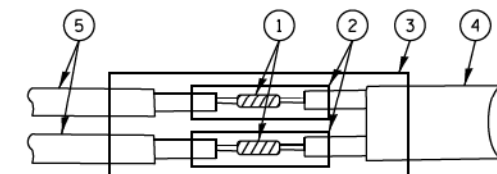


**DETECTOR LOOP WIRING SCHEMATIC**

- 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.



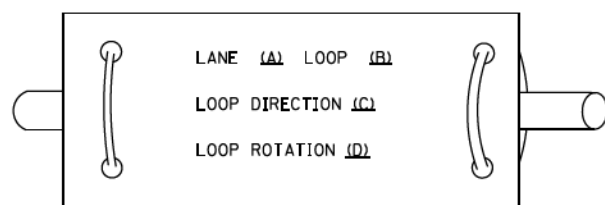
DETAIL "A"  
LOOP-TO-LOOP SPLICE



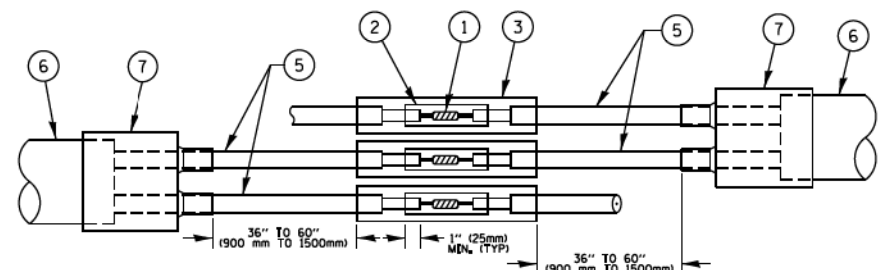
DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

**TYPE I LOOP**

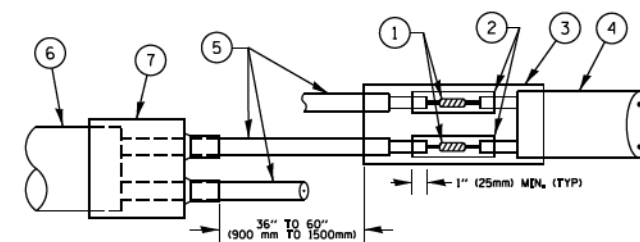
**LOOP LEAD-IN CABLE TAG**



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



DETAIL "A"  
LOOP-TO-LOOP SPLICE



DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

**PREFORMED LOOP**

**LOOP DETECTOR SPLICE**

- ① WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- 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

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PLOT DATE = 1/13/2014		DATE - 10-28-09	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET NO. 2 OF 7 SHEETS STA. TO STA.

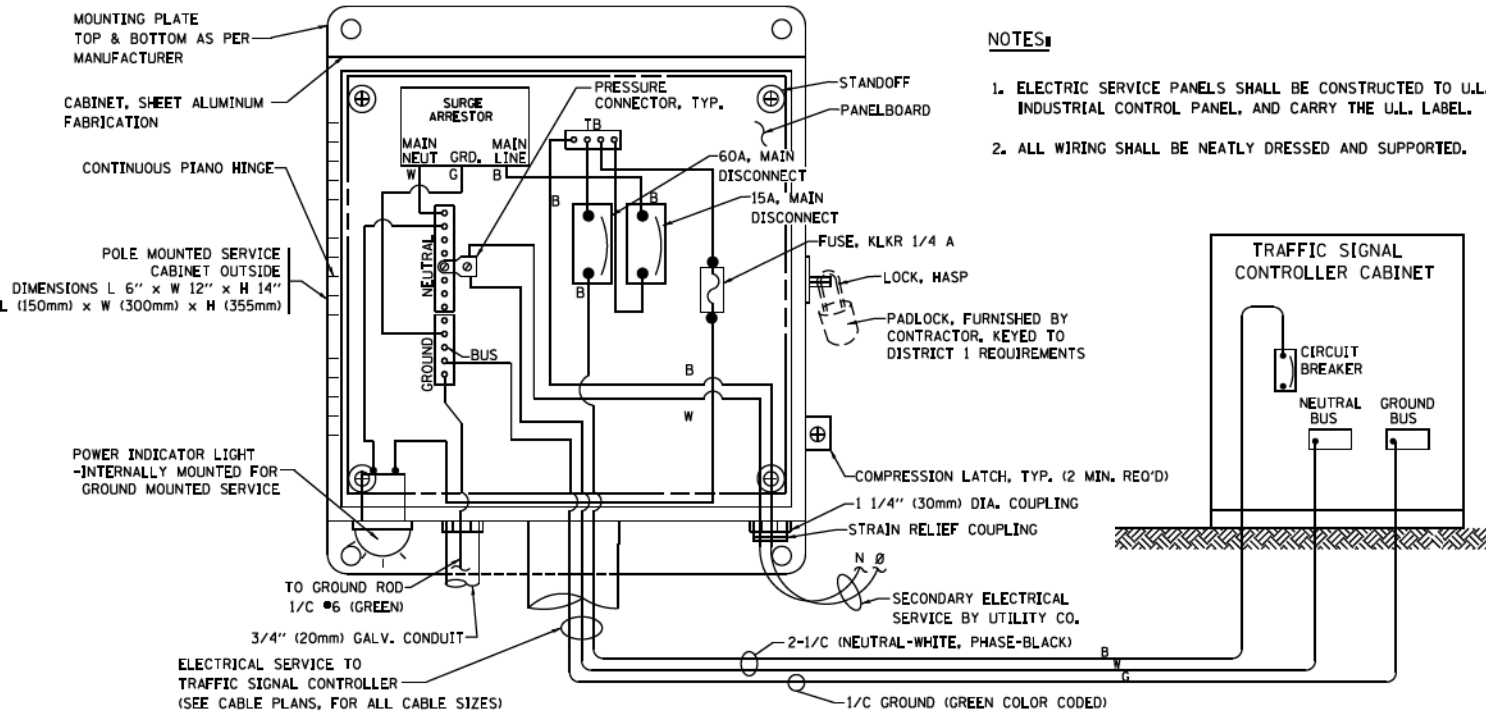
\*F.A.P./E.A.U.

F.A.P. RTE. 124	SECTION 15-00124-00-PV	COUNTY MCHENRY	TOTAL SHEETS 121	SHEET NO. 72
TS-05		CONTRACT NO. 61H27		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

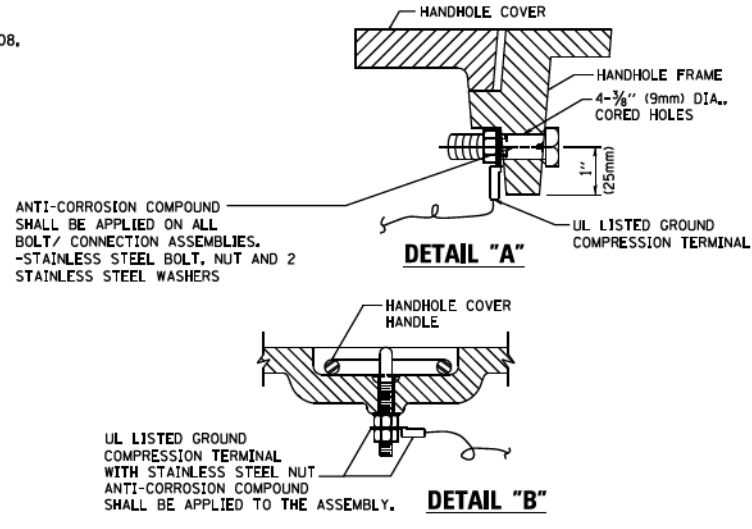




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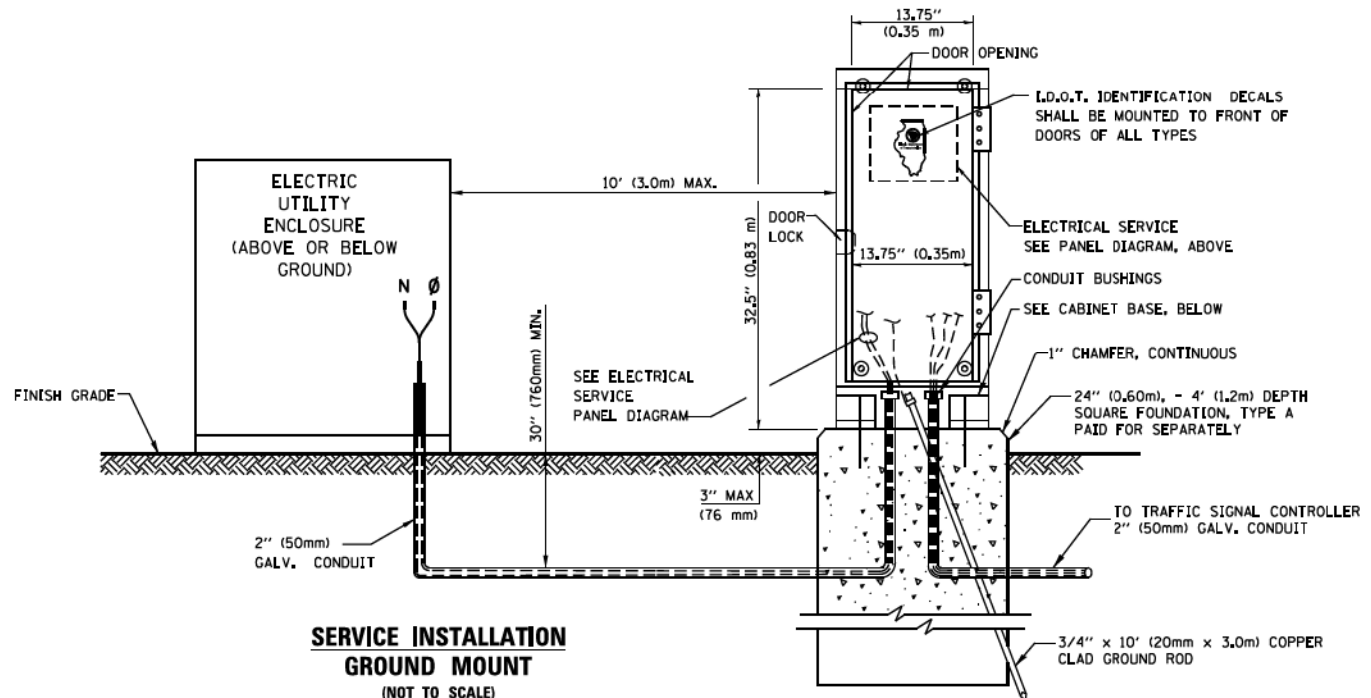


- NOTES:**
1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508, INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL.
  2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.



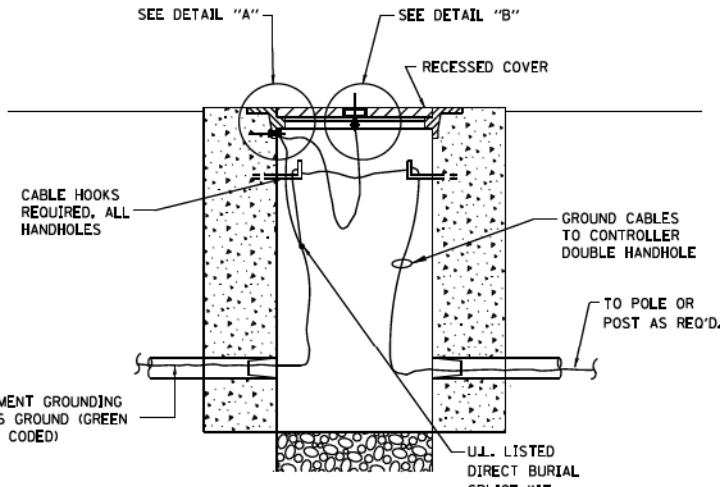
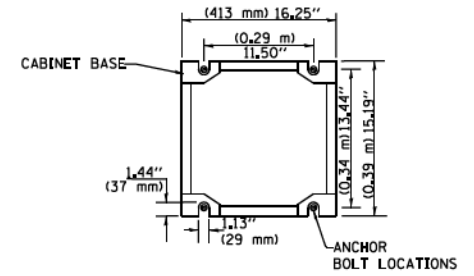
- NOTES:**
- GROUNDING SYSTEM**
1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G. STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED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

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

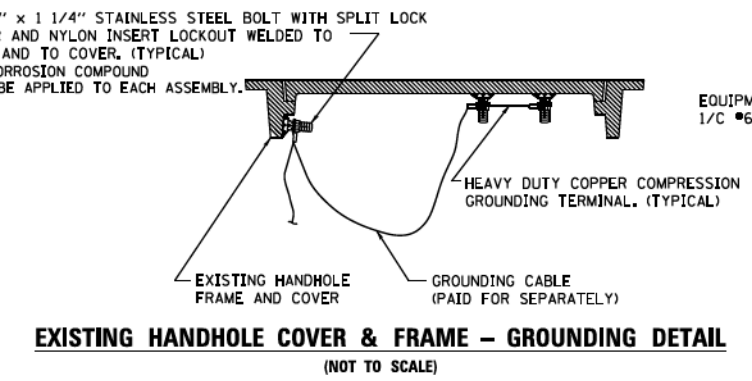


**SERVICE INSTALLATION GROUND MOUNT (NOT TO SCALE)**

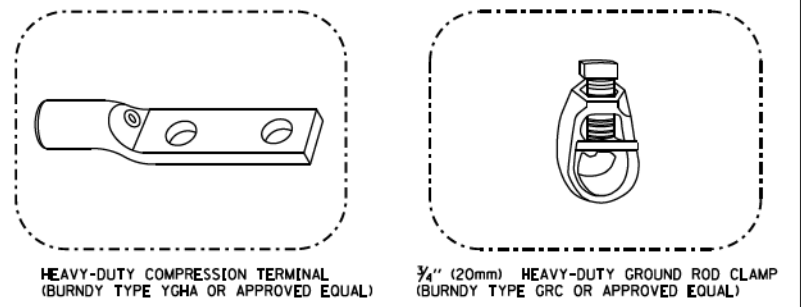
**CABINET - BASE BOLT PATTERN (NOT TO SCALE)**



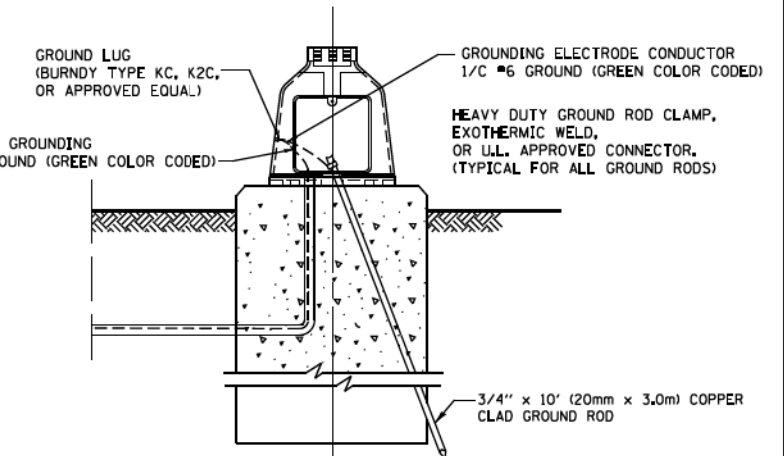
**HANDHOLE COVER & FRAME - GROUNDING DETAIL (NOT TO SCALE)**



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



- NOTES:**
- 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)**

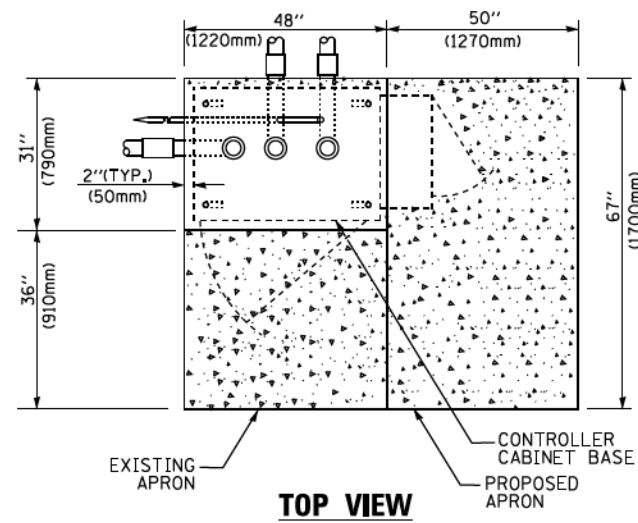
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		DATE - 10-28-09	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

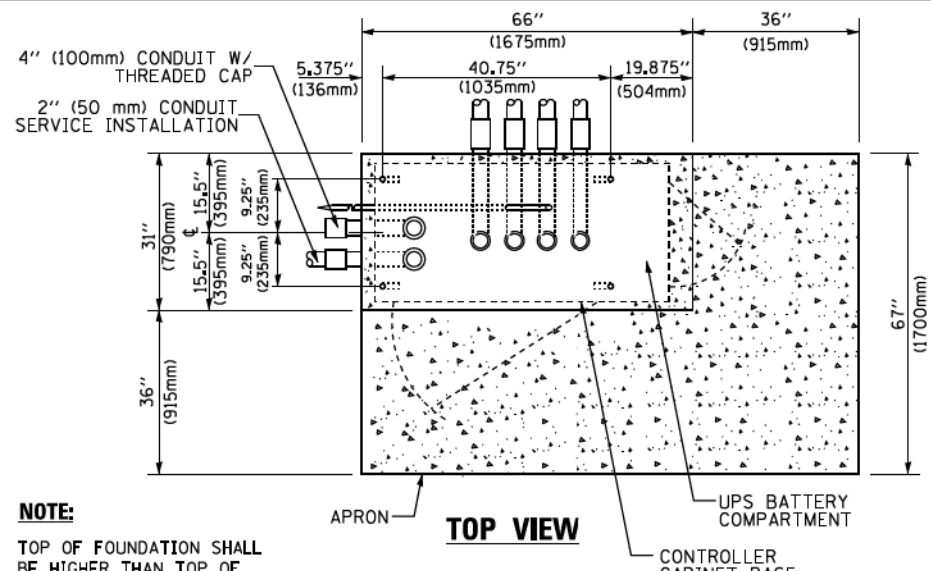
DISTRICT ONE	
STANDARD TRAFFIC SIGNAL DESIGN DETAILS	
SCALE: NONE	SHEET NO. 4 OF 7 SHEETS STA. TO STA.

F.A. RTE. 124	SECTION 15-00124-00-PV	COUNTY MCHENRY	TOTAL SHEETS 121	SHEET NO. 74
TS-05		CONTRACT NO. 61H27		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



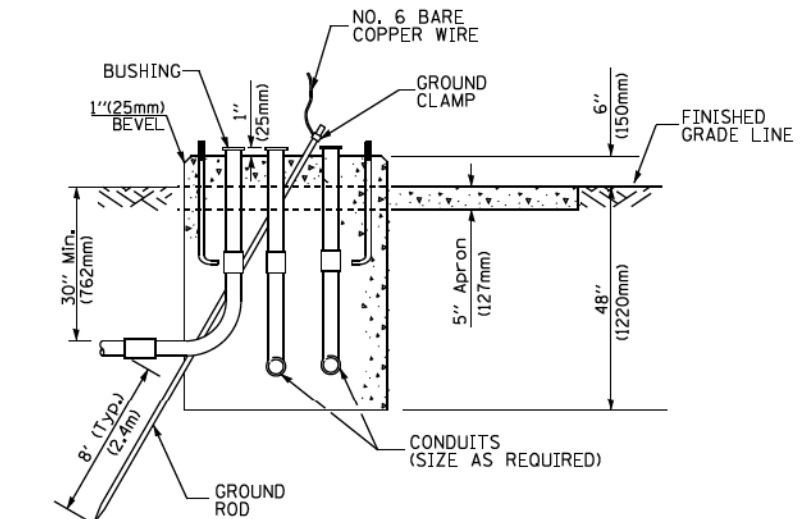


**TOP VIEW**

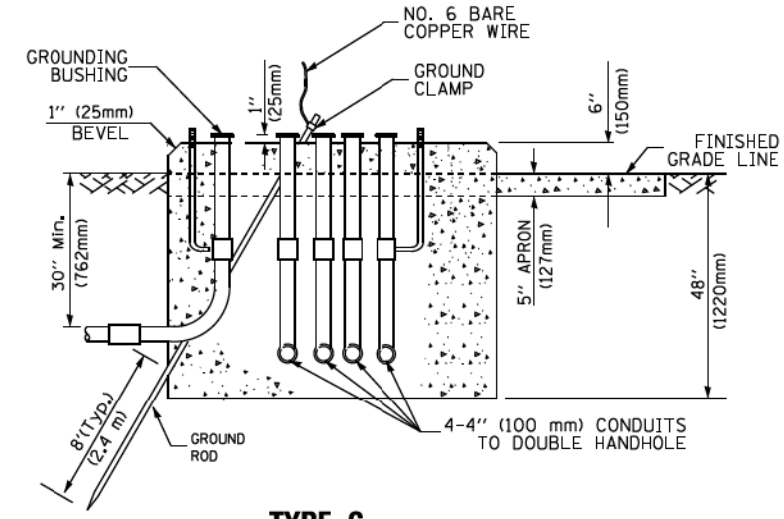


**TOP VIEW**

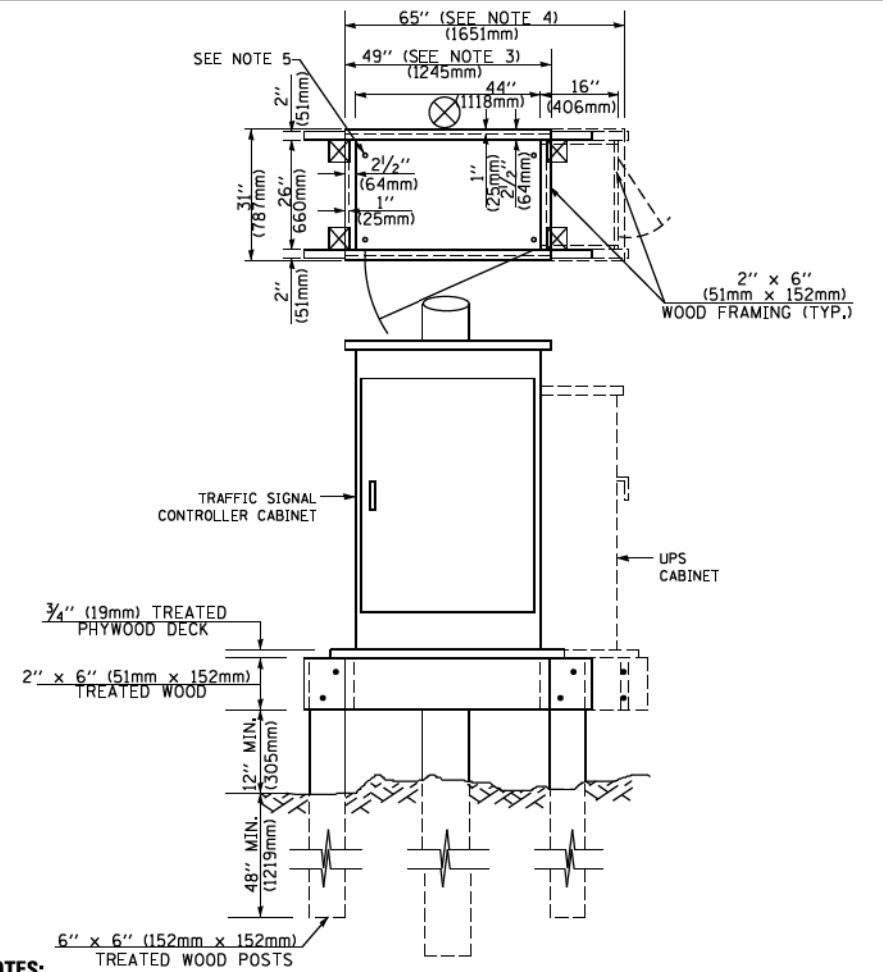
**NOTE:**  
TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE



**TYPE D  
FOR GROUND MOUNTED  
CONTROLLER CABINET  
AND UPS BATTERY CABINET**



**TYPE C  
FOR GROUND MOUNTED  
SUPER P (TYPE IV) AND SUPER R (TYPE V)  
CONTROLLER CABINETS**



**NOTES:**

- BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
- BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
- PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
- PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
- DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
- FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

**TEMPORARY SIGNAL CONTROLLER  
WOOD SUPPORT PLATFORM**

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

**CABLE SLACK**

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

**VERTICAL CABLE LENGTH**

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)

**DEPTH OF FOUNDATION**

MAST ARM LENGTH	① 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 less than 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and less than 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal 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.

**DEPTH OF MAST ARM FOUNDATIONS, TYPE E**

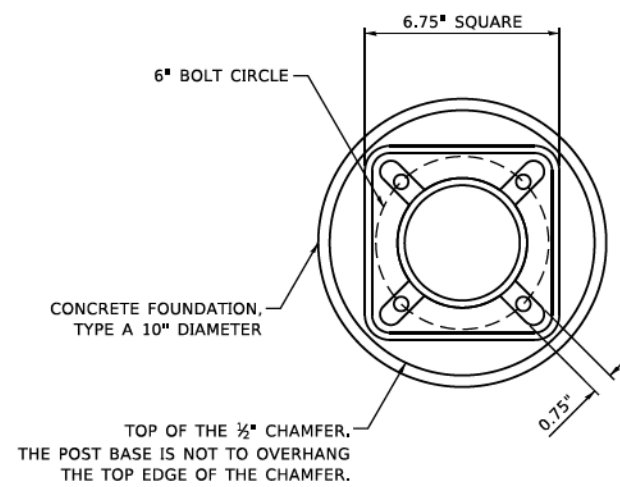
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	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCALE: NONE	SHEET NO. 5 OF 7 SHEETS	STA. TO STA.	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS	F.A. DATE: 1/24	SECTION: 15-00124-00-PV	COUNTY: MCHENRY	TOTAL SHEETS: 121	SHEET NO.: 75
				TS-05		CONTRACT NO. 61H27		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT								

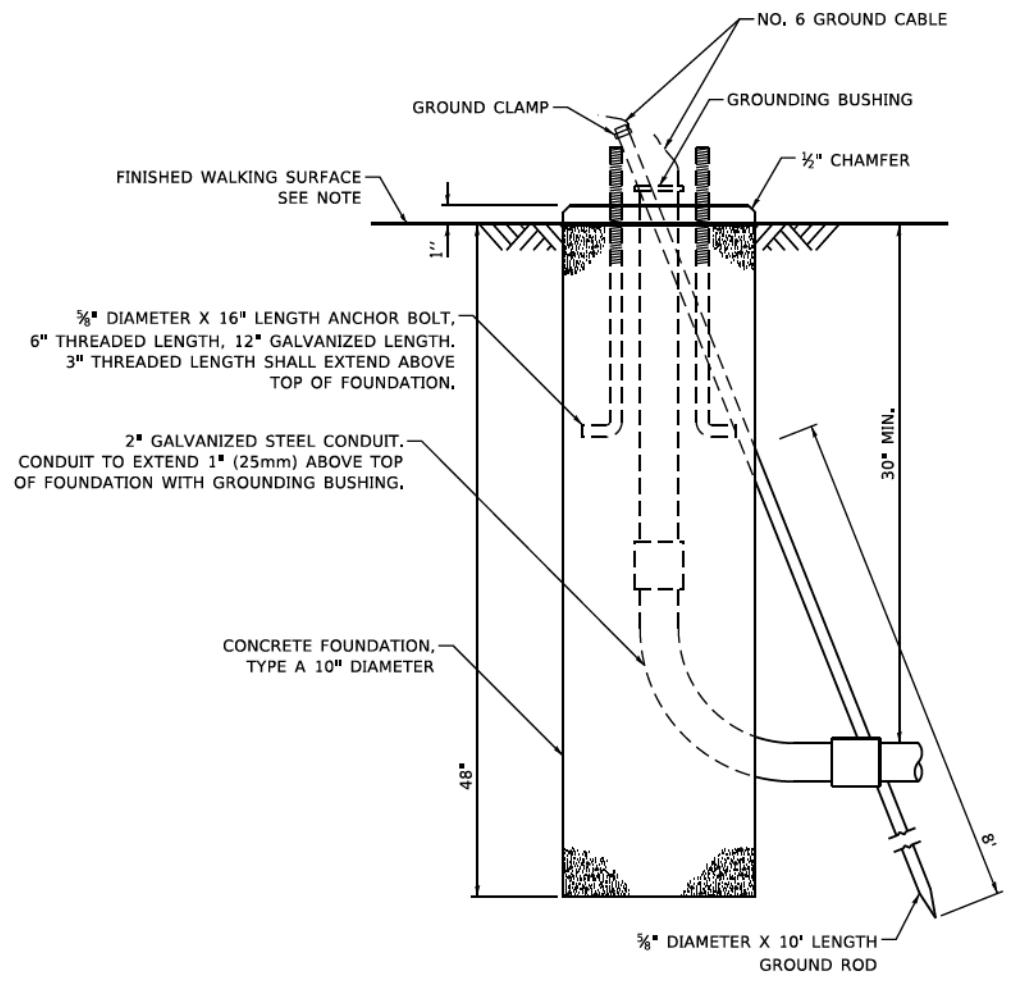
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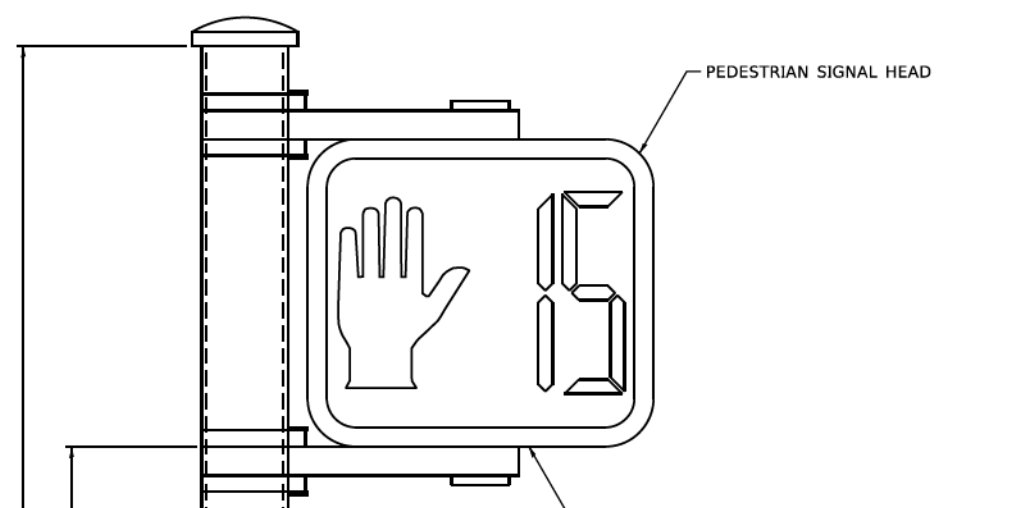


**BOLT PATTERN**

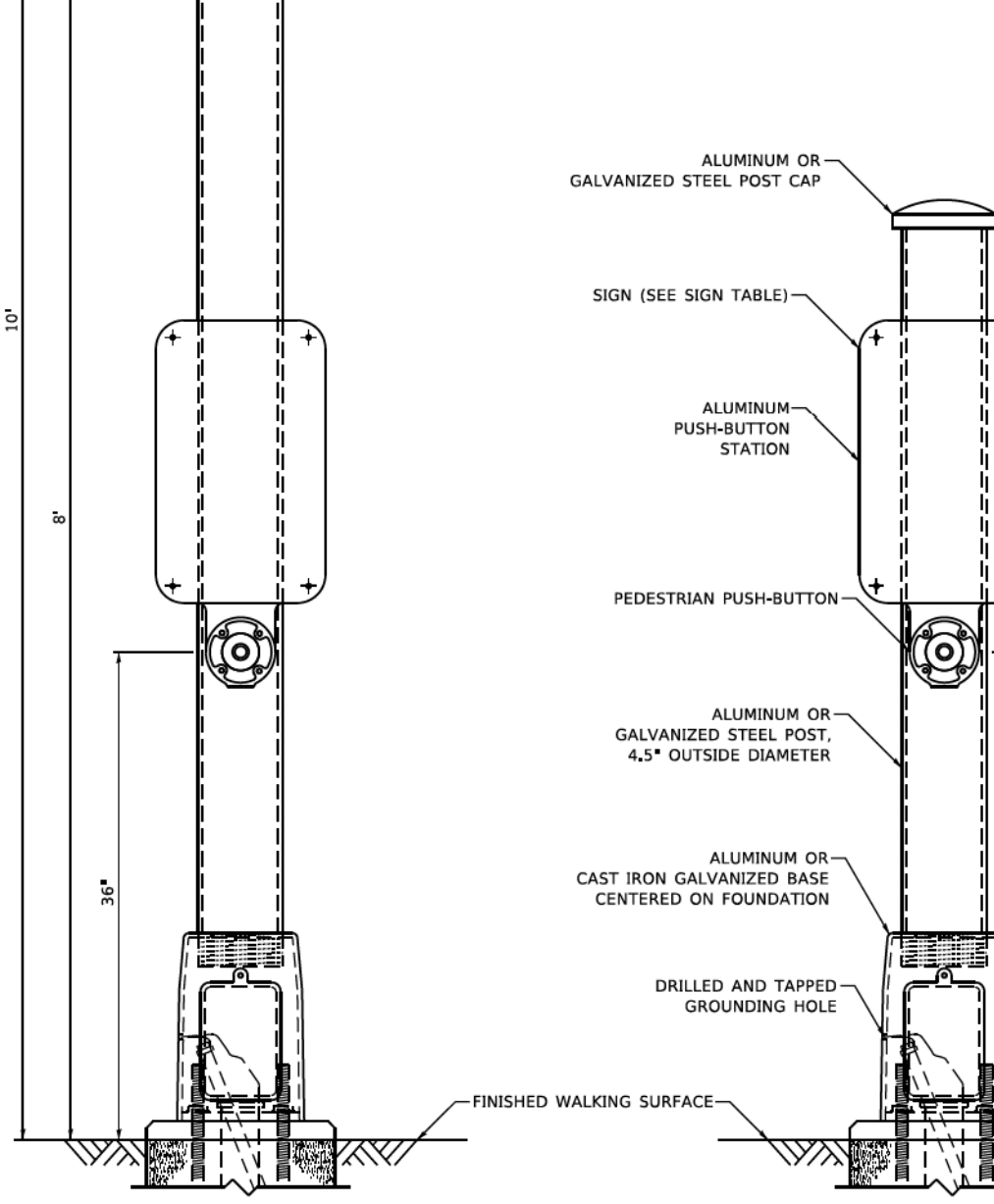
NOTE:  
 1. IF THE PEDESTRIAN SIGNAL POST FOUNDATION IS INSTALLED WITHIN OR BEHIND A BARRIER CURB, THE TOP OF THE FOUNDATION SHALL BE INSTALLED FLUSH WITH THE TOP OF THE BARRIER CURB.



**CONCRETE FOUNDATION, TYPE A 10-INCH DIAMETER**



COUNTDOWN PEDESTRIAN SIGNAL HEADS ARE NOT TO BE USED AT RAILROAD INTERSECTIONS



**PEDESTRIAN SIGNAL POST, 10 FT.**

**PEDESTRIAN SIGNAL POST, 5 FT.**



**SIGN TABLE**

SIGN	DIMENSIONS
R10-3b (RAILROAD ONLY)	9" X 12"
R10-3d (RAILROAD ONLY)	9" X 12"
R10-3e	9" X 15"

NOTES:  
 1. THE SIGN PANELS SHALL BE TYPE AP SHEETING.  
 2. THE ARROW ON SIGNS FOR PUSH-BUTTONS SERVING TWO DIRECTIONS ON THE SAME PHASE SHALL BE BI-DIRECTIONAL.  
 3. THE SIGN FOR DUAL-CALL PUSH-BUTTONS SHALL HAVE NO ARROW.

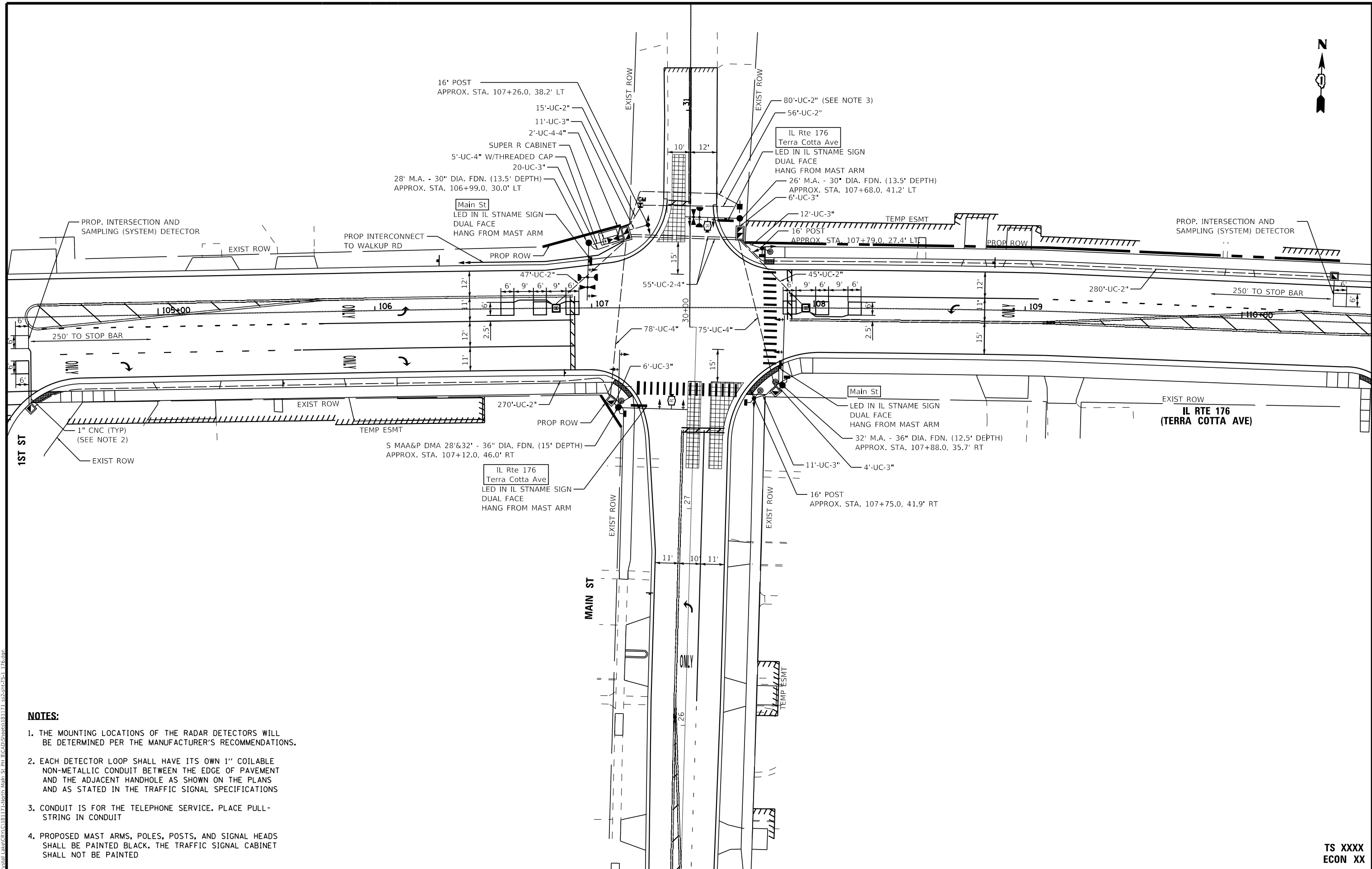
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PLOT DATE = 1/9/2020	CHECKED - LP	REVISED -
	DATE - 10/15/2018	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

DISTRICT ONE  
 STANDARD TRAFFIC SIGNAL DESIGN DETAILS  
 SCALE: NONE SHEET 7 OF 7 SHEETS STA. TO STA.

F.A. RATE: 124	SECTION: 15-00124-00-PV	COUNTY: MCHENRY	TOTAL SHEETS: 121	SHEET NO.: 77
TS-05		CONTRACT NO. 61H27		
ILLINOIS FED. AID PROJECT				



- NOTES:**
1. THE MOUNTING LOCATIONS OF THE RADAR DETECTORS WILL BE DETERMINED PER THE MANUFACTURER'S RECOMMENDATIONS.
  2. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS
  3. CONDUIT IS FOR THE TELEPHONE SERVICE. PLACE PULL-STRING IN CONDUIT
  4. PROPOSED MAST ARMS, POLES, POSTS, AND SIGNAL HEADS SHALL BE PAINTED BLACK. THE TRAFFIC SIGNAL CABINET SHALL NOT BE PAINTED

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM  
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USER NAME = asramek	DESIGNED - SARAH MAGNUSON	REVISED -
PLOT SCALE = 40,0000' / in.	DRAWN - KATHLEEN ROBERSON	REVISED -
PLOT DATE = 8/27/2021	CHECKED - BOB LENZINI	REVISED -
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

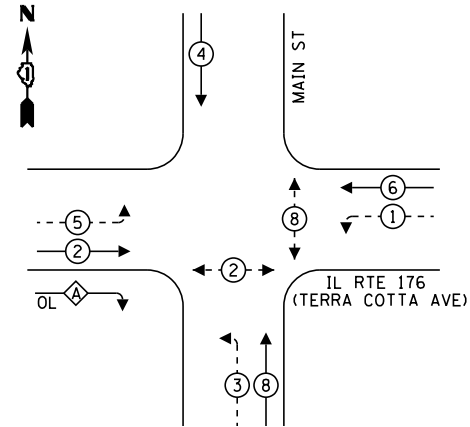
**TRAFFIC SIGNAL INSTALLATION PLAN**  
**IL RTE 176 (TERRA COTTA AVE) AND MAIN ST**

SCALE: 1" = 20' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 335	SECTION 15-00124-00-PV	COUNTY MCHENRY	TOTAL SHEETS 121	SHEET NO. 78
			CONTRACT NO. 61H27	
ILLINOIS FED. AID PROJECT				

**TS XXXX**  
**ECON XX**

**PROPOSED CONTROLLER SEQUENCE**



**LEGEND:**

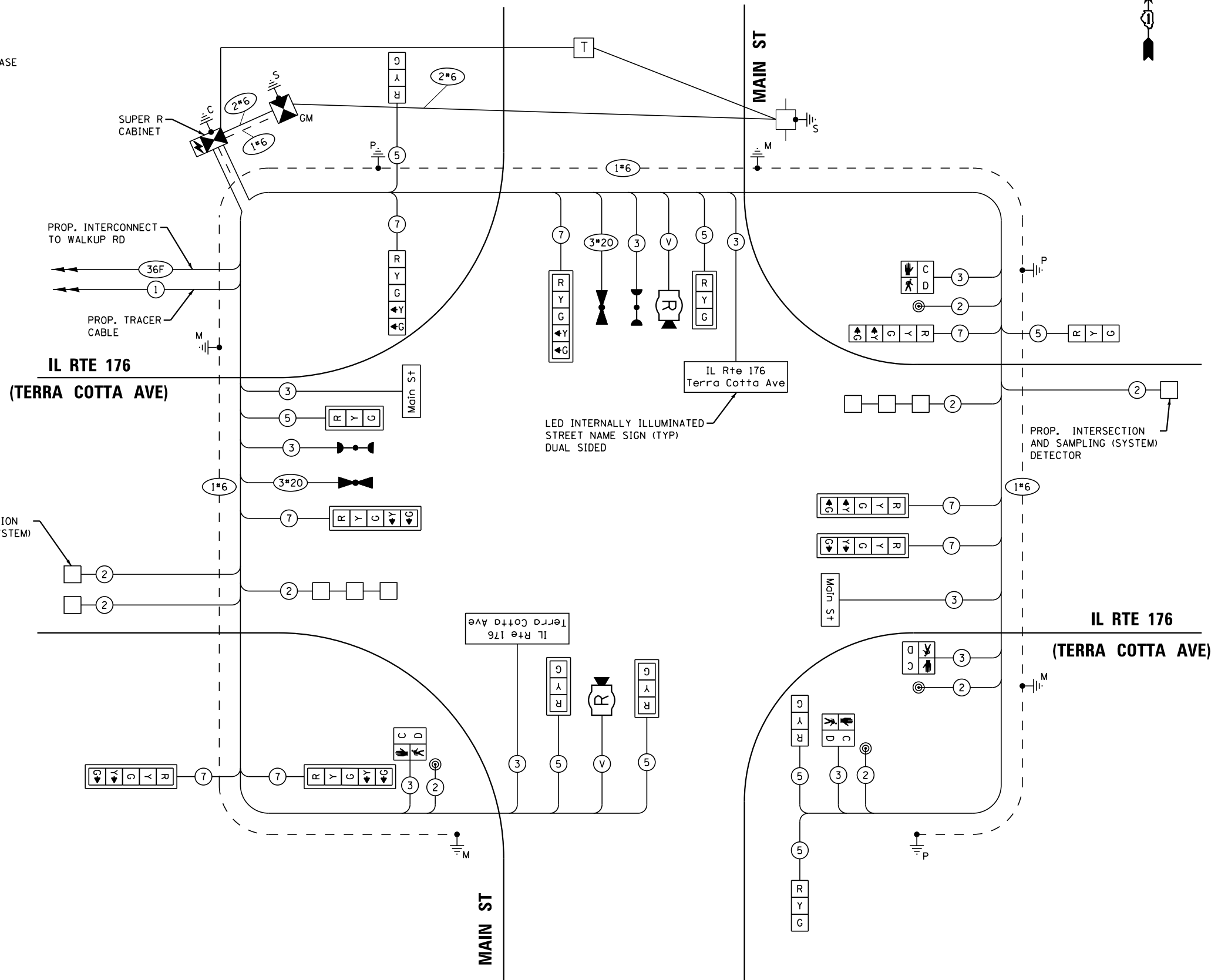
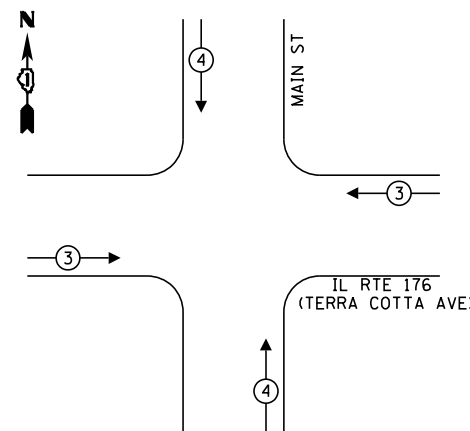
- ← \* → PROTECTED PHASE
- ← \* - - - PROTECTED/PERMITTED PHASE
- ← \* → PEDESTRIAN PHASE
- ← \* OL → OVERLAP

**RIGHT TURN OVERLAP**

**PHASE DESIGNATION:**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3

**PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**CABLE PLAN**  
(NOT TO SCALE)

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	16	11	50	88.0
(YELLOW)	16	20	5	16.0
(GREEN)	16	12	45	86.4
PERMISSIVE ARROW	16	10	10	16.0
PED. SIGNAL	4	20	100	80.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	4	120	50	240.0
LUMINAIRE	-	-	-	-
<b>TOTAL =</b>				<b>651.4</b>

ENERGY COSTS TO:  
**CITY OF CRYSTAL LAKE**  
 100 WEST WOODSTOCK STREET  
 CRYSTAL LAKE, ILLINOIS 60014  
 ENERGY SUPPLY: CONTACT: \_\_\_\_\_  
 PHONE: \_\_\_\_\_  
 COMPANY: COMMONWEALTH EDISON  
 ACCOUNT NUMBER: \_\_\_\_\_

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**BAXTER & WOODMAN**  
 Consulting Engineers

USER NAME = asramek	DESIGNED - SARAH MAGNUSON	REVISED -
PLOT SCALE = 40,0000 ' / in.	DRAWN - KATHLEEN ROBERSON	REVISED -
PLOT DATE = 8/27/2021	CHECKED - BOB LENZINI	REVISED -
	DATE - 08-26-2021	FILE - 181171_ss2-sht-TS-Cable.dgn

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

**CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE  
 IL RTE 176 (TERRA COTTA AVE) AND MAIN ST**

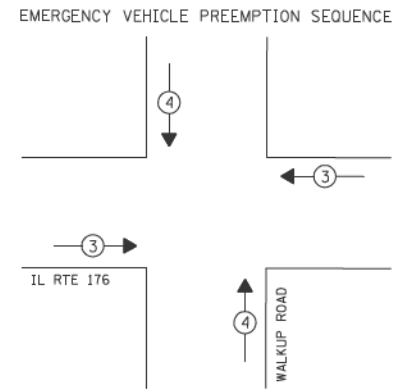
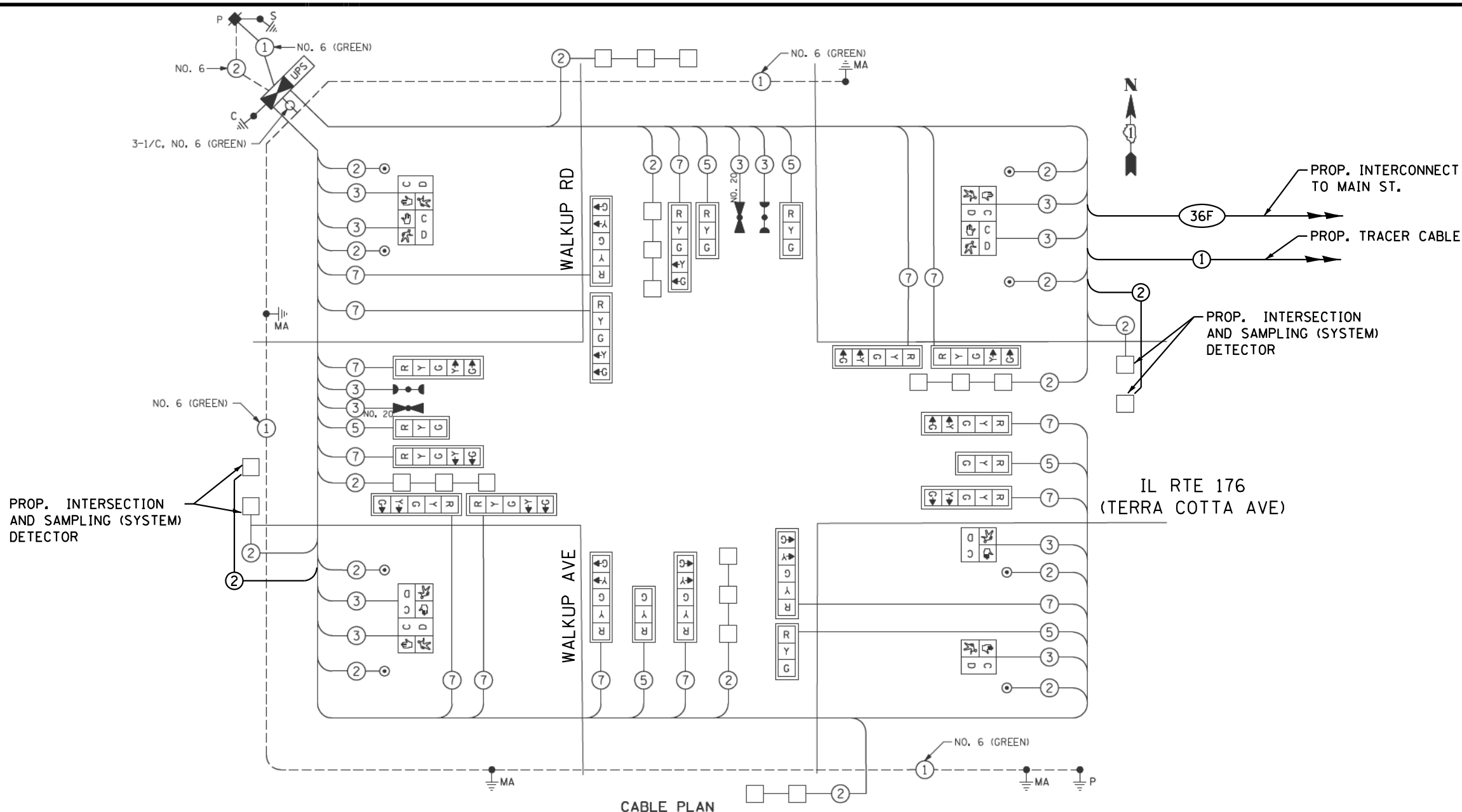
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	15-00124-00-PV	MCHENRY	121	79
				CONTRACT NO. 61H27
ILLINOIS FED. AID PROJECT				

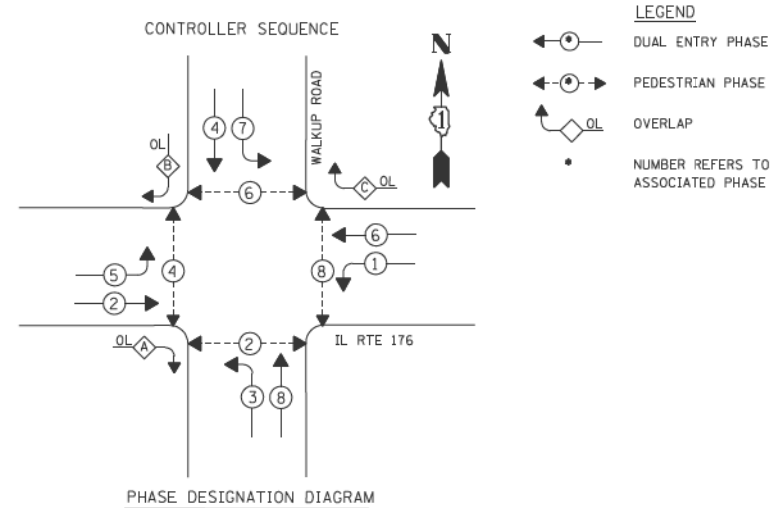
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 ECON XX**



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PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↑ ↓



USER NAME = asramek	DESIGNED - SARAH MAGNUSON	REVISED -
	DRAWN - KATHLEEN ROBERSON	REVISED -
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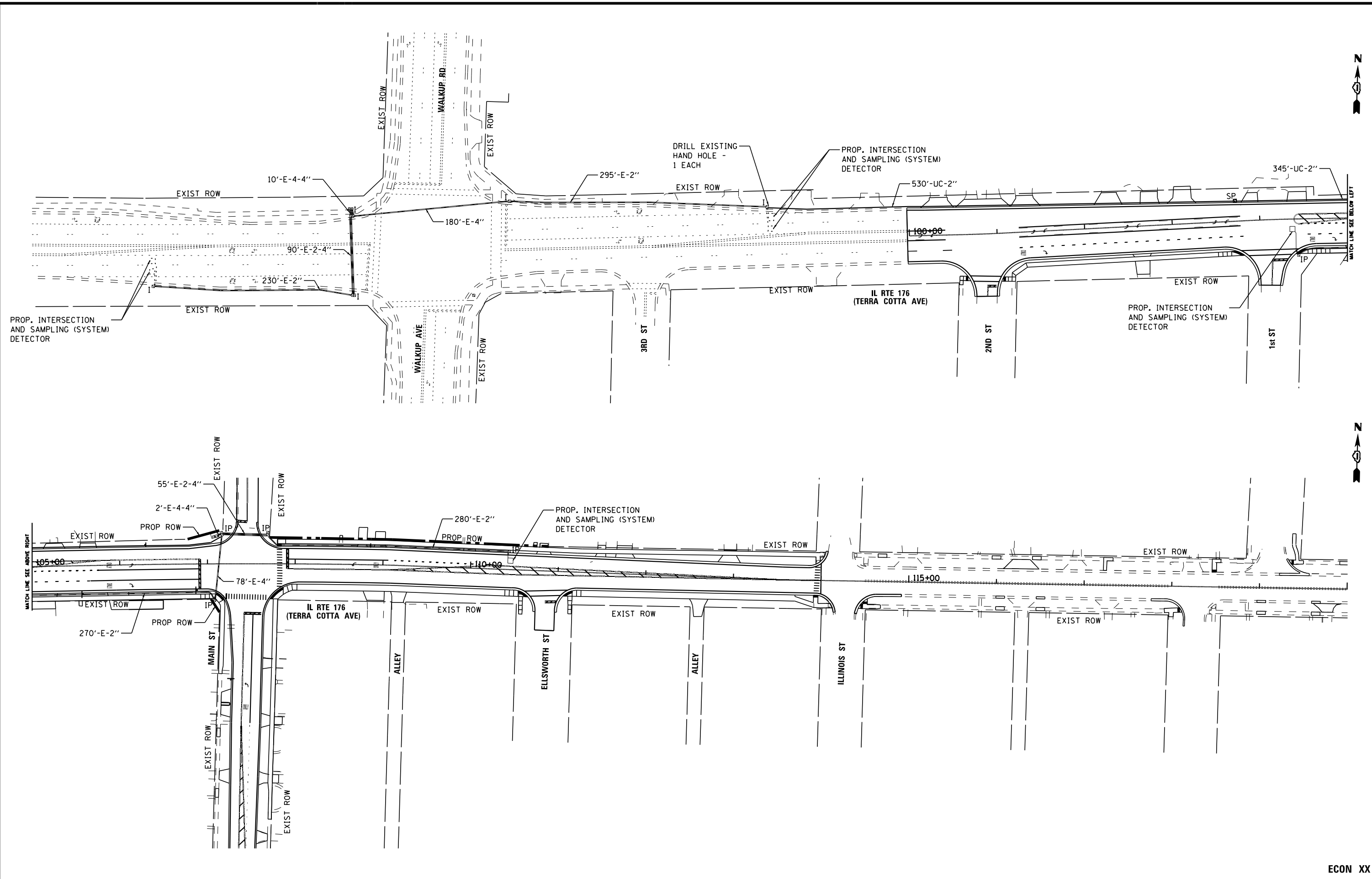
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
 AND EMERGENCY VEHICLE PREEMPTION SEQUENCE  
 IL RTE 176 (TERRA COTTA AVE) AND WALKUP RD  
 SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 61H27			ILLINOIS FED. AID PROJECT	

TS 11570  
 ECON XX

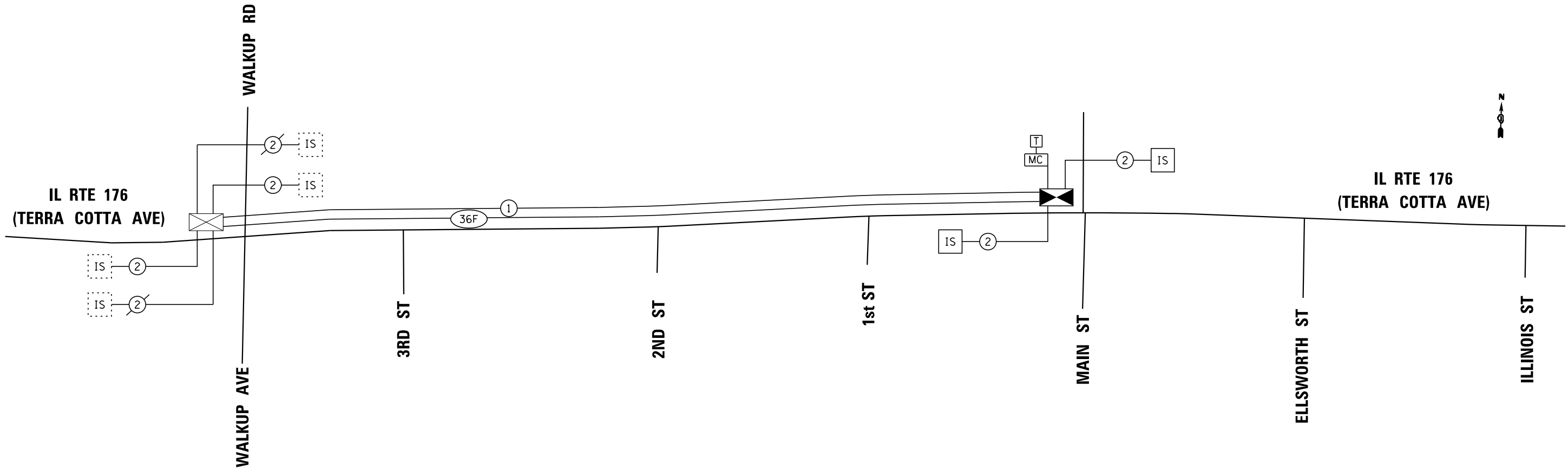
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	USER NAME = asramek	DESIGNED - SARAH MAGNUSON	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	<b>PROPOSED INTERCONNECT PLAN</b> <b>IL RTE 176 (TERRA COTTA AVE) -</b> <b>WALKUP RD TO MAIN ST</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100.0000' / in.	DRAWN - KATHLEEN ROBERSON	REVISED -		335	15-00124-00-PV	MCHENRY	121	82			
	PLOT DATE = 8/27/2021	CHECKED - BOB LENZINI	REVISED -		CONTRACT NO. 61H27							
		DATE - 08-26-2021	FILE - 181171_ss2-sht-TS-Interconnect.dgn		SCALE: 1" = 50'	SHEET 1 OF 1 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT			

ECON XX





### SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	875
HANDHOLE	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRANSCIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	1443
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	883
DRILL EXISTING HANDHOLE	EACH	1
INDUCTIVE LOOP DETECTOR	EACH	2
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	538
ROD AND CLEAN EXISTING CONDUIT	FOOT	525
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	1443
OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	19

- NOMINAL QUANTITY TO BE USED AS NEEDED AND AS APPROVED BY THE ENGINEER
- FOR WALKUP ROAD INTERSECTION AND SAMPLING (SYSTEM) DETECTORS
- FOR THE WALKUP ROAD AND MAIN STREET INTERCONNECT SYSTEM
- FOR THE US ROUTE 14 AND IL ROUTE 31 INTERCONNECT SYSTEMS (SEE DETOUR SHEET)

ECON XX

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM  
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2022  
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 FILE NAME: R:\Projects\181171\181171-TS-Interconnect\Schematic.dgn



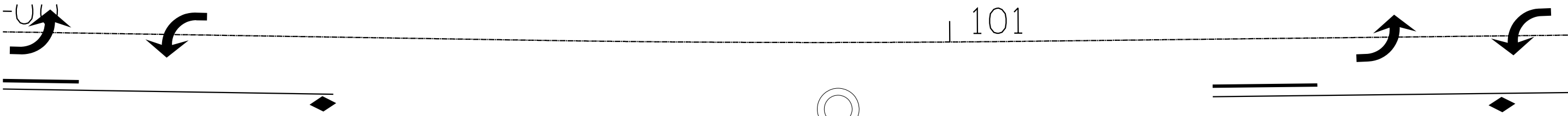
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	DRAWN - KATHLEEN ROBERSON	REVISED -
PLOT SCALE = 160,0000' / in.	CHECKED - BOB LENZINI	REVISED -
PLOT DATE = 8/27/2021	DATE - 08-26-2021	FILE - 181171_ss2-sht-TS-InterconnectSchematic.dgn

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT SCHEMATIC AND SCHEDULE OF QUANTITIES  
 IL RTE 176 (TERRA COTTA AVE) -  
 WALKUP RD TO MAIN ST

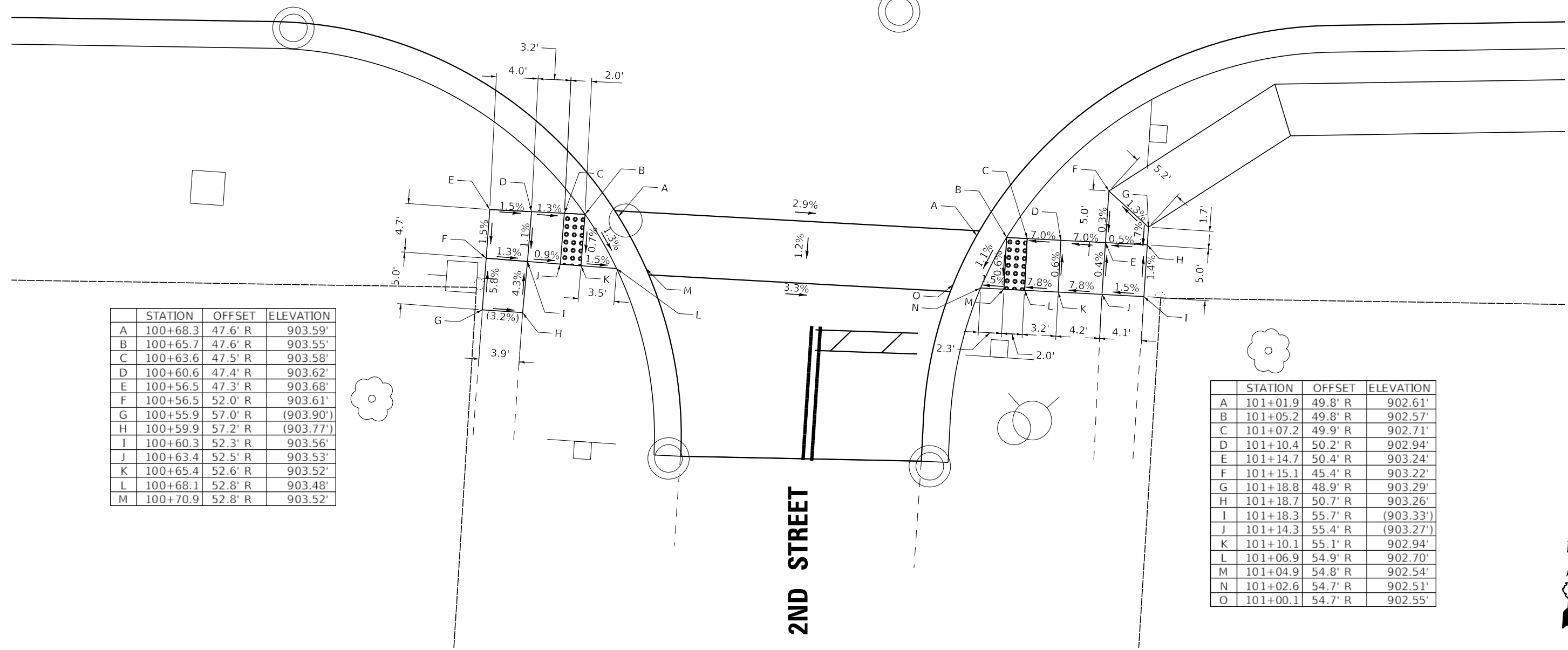
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	15-00124-00-PV	MCHENRY	121	83
CONTRACT NO. 61H27			ILLINOIS FED. AID PROJECT	

SCALE: NONE SHEET OF SHEETS STA. TO STA.



**IL ROUTE 176 (TERRA COTTA AVE)**

**ONLY**



	STATION	OFFSET	ELEVATION
A	100+68.3	47.6' R	903.59'
B	100+65.7	47.6' R	903.55'
C	100+63.6	47.5' R	903.58'
D	100+60.6	47.4' R	903.62'
E	100+56.5	47.3' R	903.68'
F	100+56.5	52.0' R	903.61'
G	100+55.9	57.0' R	(903.90')
H	100+59.9	57.2' R	(903.77')
I	100+60.3	52.3' R	903.56'
J	100+63.4	52.5' R	903.53'
K	100+65.4	52.6' R	903.52'
L	100+68.1	52.8' R	903.48'
M	100+70.9	52.8' R	903.52'

	STATION	OFFSET	ELEVATION
A	101+01.9	49.8' R	902.61'
B	101+05.2	49.8' R	902.57'
C	101+07.2	49.9' R	902.71'
D	101+10.4	50.2' R	902.94'
E	101+14.7	50.4' R	903.24'
F	101+15.1	45.4' R	903.22'
G	101+18.8	48.9' R	903.29'
H	101+18.7	50.7' R	903.26'
I	101+18.3	55.7' R	(903.33')
J	101+14.3	55.4' R	(903.27')
K	101+10.1	55.1' R	902.94'
L	101+06.9	54.9' R	902.70'
M	101+04.9	54.8' R	902.54'
N	101+02.6	54.7' R	902.51'
O	101+00.1	54.7' R	902.55'

**2ND STREET**

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM  
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USER NAME = asramek	DESIGNED - DJS	REVISED -
	DRAWN - KAR	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED - AKS	REVISED -
PLOT DATE = 8/27/2021	DATE - 08-26-2021	FILE - 181171_ss2-sht-ADA-1_2nd.dgn

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

**SIDEWALK RAMP DETAIL**  
**2ND STREET & IL ROUTE 176 (TERRA COTTA AVE)**  
 SCALE: 1" = 5' SHEET OF SHEETS STA. TO STA.

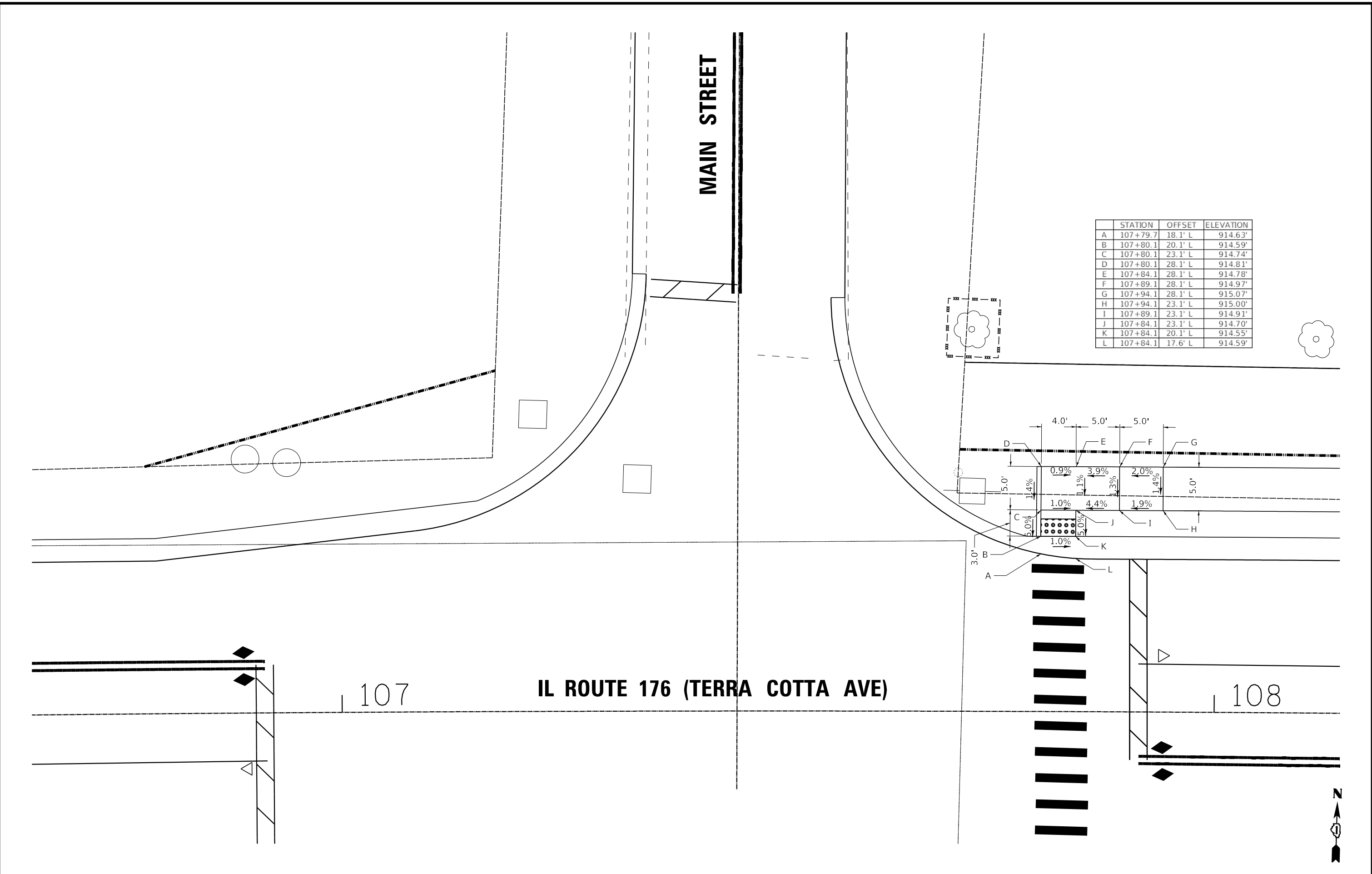
F.A.P. RTE. 335	SECTION 15-00124-00-PV	COUNTY MCHENRY	TOTAL SHEETS 121	SHEET NO. 84
CONTRACT NO. 61H27				
ILLINOIS FED. AID PROJECT				







STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM  
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	STATION	OFFSET	ELEVATION
A	107+79.7	18.1' L	914.63'
B	107+80.1	20.1' L	914.59'
C	107+80.1	23.1' L	914.74'
D	107+84.1	28.1' L	914.81'
E	107+84.1	28.1' L	914.78'
F	107+89.1	28.1' L	914.97'
G	107+94.1	28.1' L	915.07'
H	107+94.1	23.1' L	915.00'
I	107+89.1	23.1' L	914.91'
J	107+84.1	23.1' L	914.70'
K	107+84.1	20.1' L	914.55'
L	107+84.1	17.6' L	914.59'

	USER NAME = asramek	DESIGNED - DJS	REVISED -
	PLOT SCALE = 10.0000 "/td> <td>CHECKED - AKS</td> <td>REVISED -</td>	CHECKED - AKS	REVISED -
	PLOT DATE = 8/27/2021	DATE - 08-26-2021	FILE - 181171_ss2-sht-ADA-4_Main.dgn

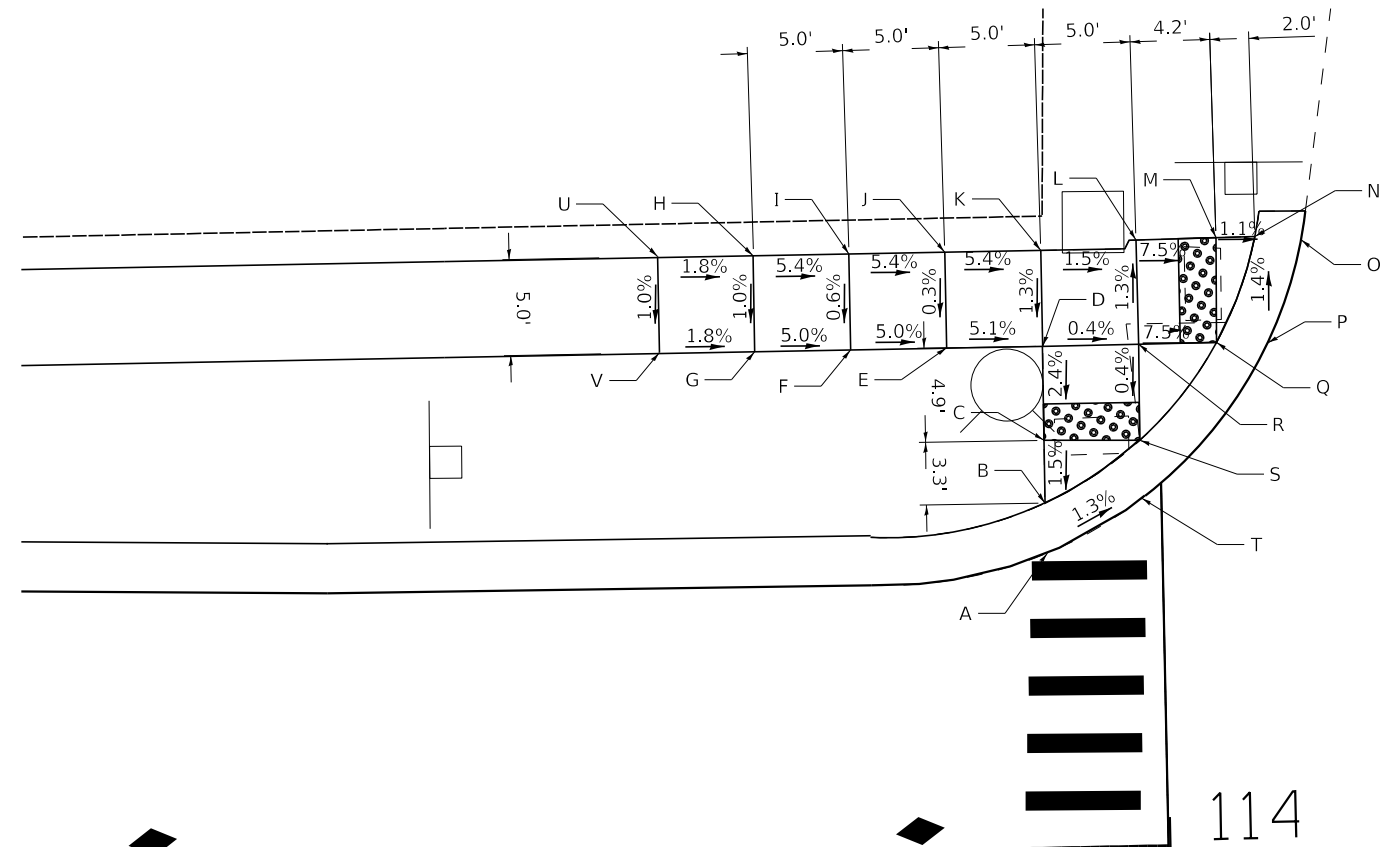
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

**SIDEWALK RAMP DETAIL**  
**MAIN STREET & IL ROUTE 176 (TERRA COTTA AVE)**  
 SCALE: 1" = 5' SHEET OF SHEETS STA. TO STA.

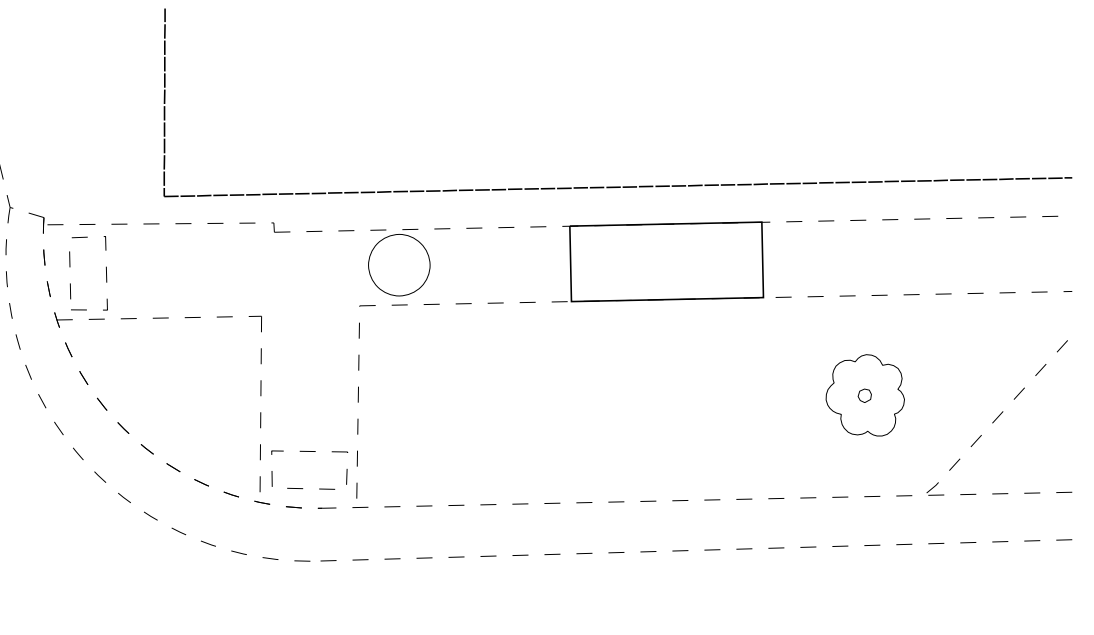
F.A.P. RTE. 335	SECTION 15-00124-00-PV	COUNTY MCHENRY	TOTAL SHEETS 121	SHEET NO. 87
ILLINOIS FED. AID PROJECT				CONTRACT NO. 61H27



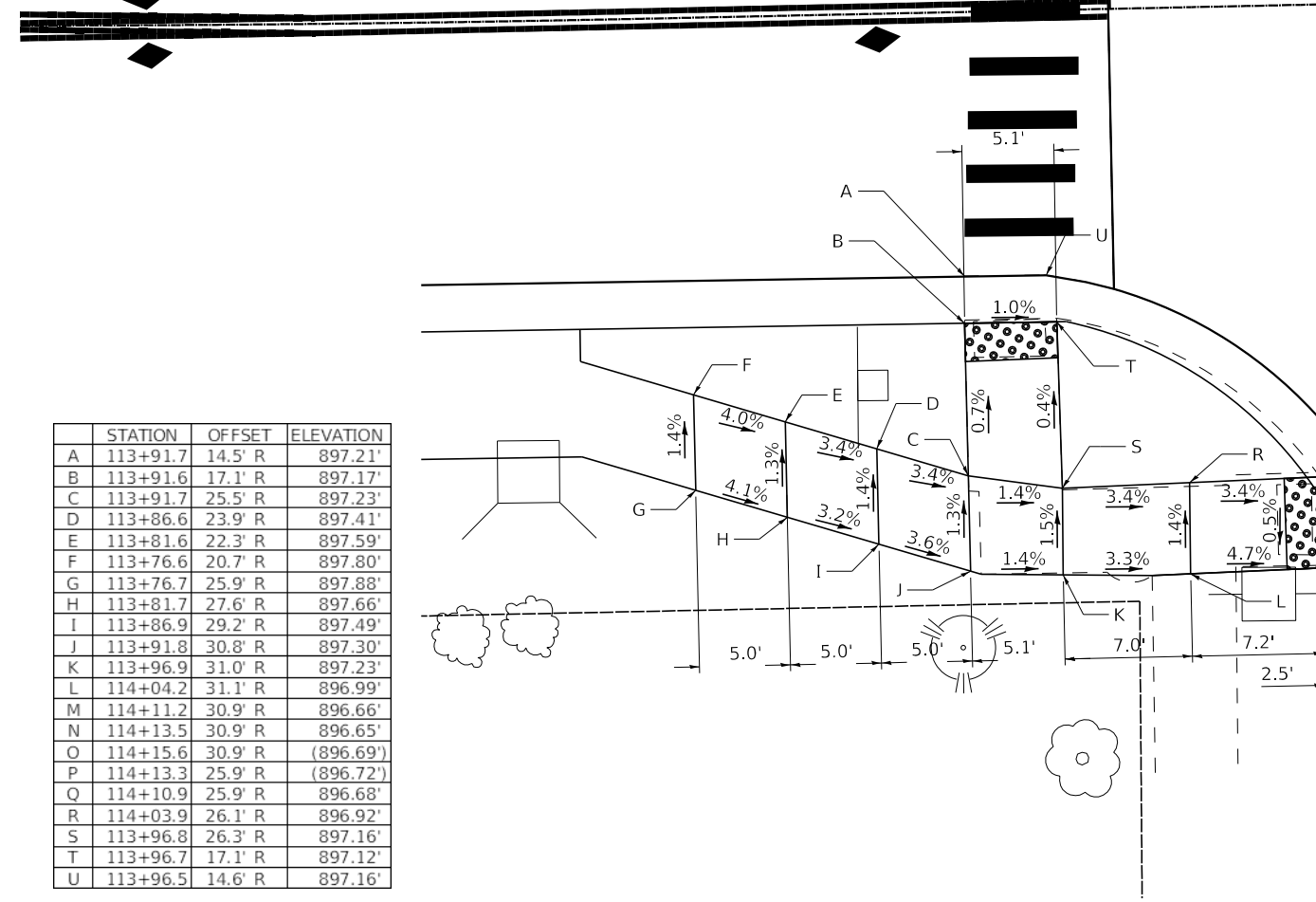
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 8/27/2021  
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STATION	OFFSET	ELEVATION
A	113+93.8	15.9' L 896.70'
B	113+93.8	18.5' L 896.66'
C	113+93.9	21.6' L 896.70'
D	113+93.9	26.7' L 896.58'
E	113+88.9	26.7' L 896.83'
F	113+83.9	26.7' L 897.08'
G	113+78.9	26.7' L 897.33'
H	113+78.9	31.7' L 897.38'
I	113+83.9	31.7' L 897.11'
J	113+88.9	31.7' L 896.84'
K	113+93.9	31.7' L 896.57'
L	113+99.0	32.1' L 896.49'
M	114+02.9	32.1' L 896.20'
N	114+05.1	32.1' L 896.18'
O	114+07.5	32.1' L (896.22')
P	114+05.7	26.7' L (896.30')
Q	114+02.9	26.7' L 896.26'
R	113+98.9	26.7' L 896.56'
S	113+98.8	21.7' L 896.58'
T	113+98.8	18.4' L 896.62'
U	113+73.9	31.7' L 897.47'
V	113+73.9	26.7' L 897.42'

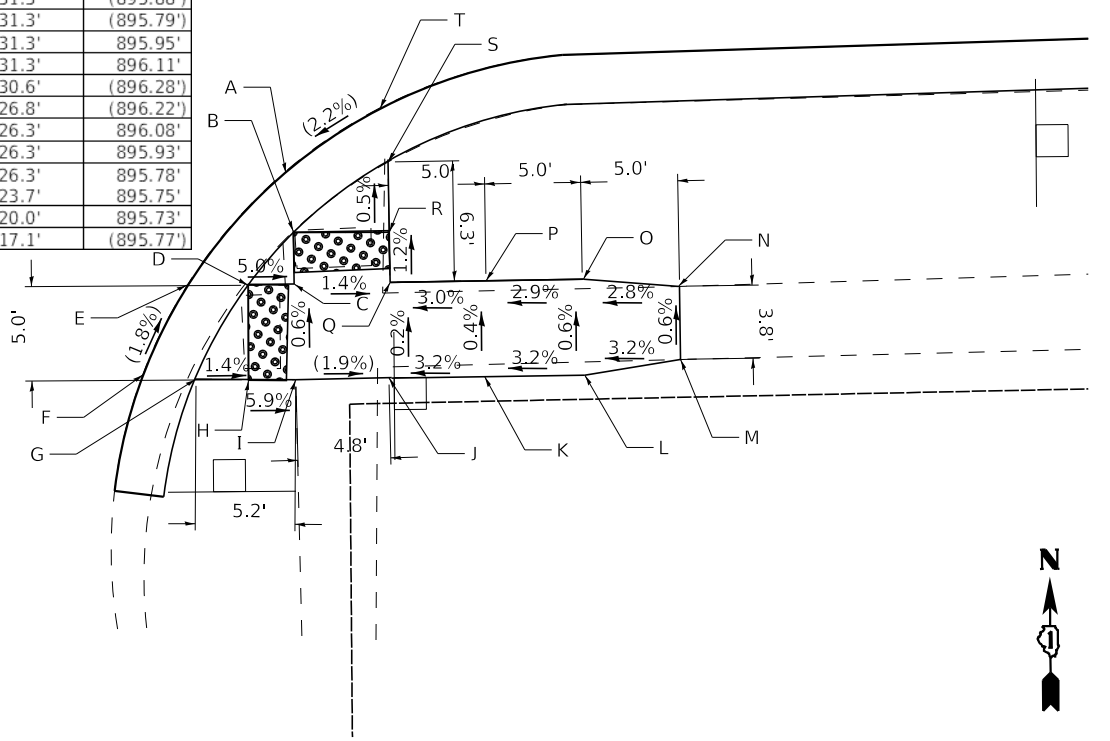


**IL ROUTE 176 (TERRA COTTA AVE)**



STATION	OFFSET	ELEVATION
A	113+91.7	14.5' R 897.21'
B	113+91.6	17.1' R 897.17'
C	113+91.7	25.5' R 897.23'
D	113+86.6	23.9' R 897.41'
E	113+81.6	22.3' R 897.59'
F	113+76.6	20.7' R 897.80'
G	113+76.7	25.9' R 897.88'
H	113+81.7	27.6' R 897.66'
I	113+86.9	29.2' R 897.49'
J	113+91.8	30.8' R 897.30'
K	113+96.9	31.0' R 897.23'
L	114+04.2	31.1' R 896.99'
M	114+11.2	30.9' R 896.66'
N	114+13.5	30.9' R 896.65'
O	114+15.6	30.9' R (896.69')
P	114+13.3	25.9' R (896.72')
Q	114+10.9	25.9' R 896.68'
R	114+03.9	26.1' R 896.92'
S	113+96.8	26.3' R 897.16'
T	113+96.7	17.1' R 897.12'
U	113+96.5	14.6' R 897.16'

STATION	OFFSET	ELEVATION
A	114+43.3	20.0' (895.88')
B	114+43.5	23.6' 895.84'
C	114+43.5	26.3' 895.85'
D	114+41.1	26.3' 895.97'
E	114+43.0	26.4' (896.01')
F	114+35.4	31.2' (896.10')
G	114+38.2	31.1' 896.06'
H	114+41.0	31.1' 896.02'
I	114+43.5	31.3' (895.88')
J	114+48.3	31.3' (895.79')
K	114+53.3	31.3' 895.95'
L	114+58.3	31.3' 896.11'
M	114+63.6	30.6' (896.28')
N	114+63.6	26.8' (896.22')
O	114+58.6	26.3' 896.08'
P	114+53.5	26.3' 895.93'
Q	114+48.5	26.3' 895.78'
R	114+48.5	23.7' 895.75'
S	114+48.5	20.0' 895.73'
T	114+48.4	17.1' (895.77')



**ILLINOIS STREET**



USER NAME = asramek	DESIGNED - DJS	REVISED -
PLOT SCALE = 10.0000' / in.	DRAWN - KAR	REVISED -
PLOT DATE = 8/27/2021	CHECKED - AKS	REVISED -
	DATE - 08-26-2021	FILE - 181171_ss2-sht-ADA-6_illinois.dgn

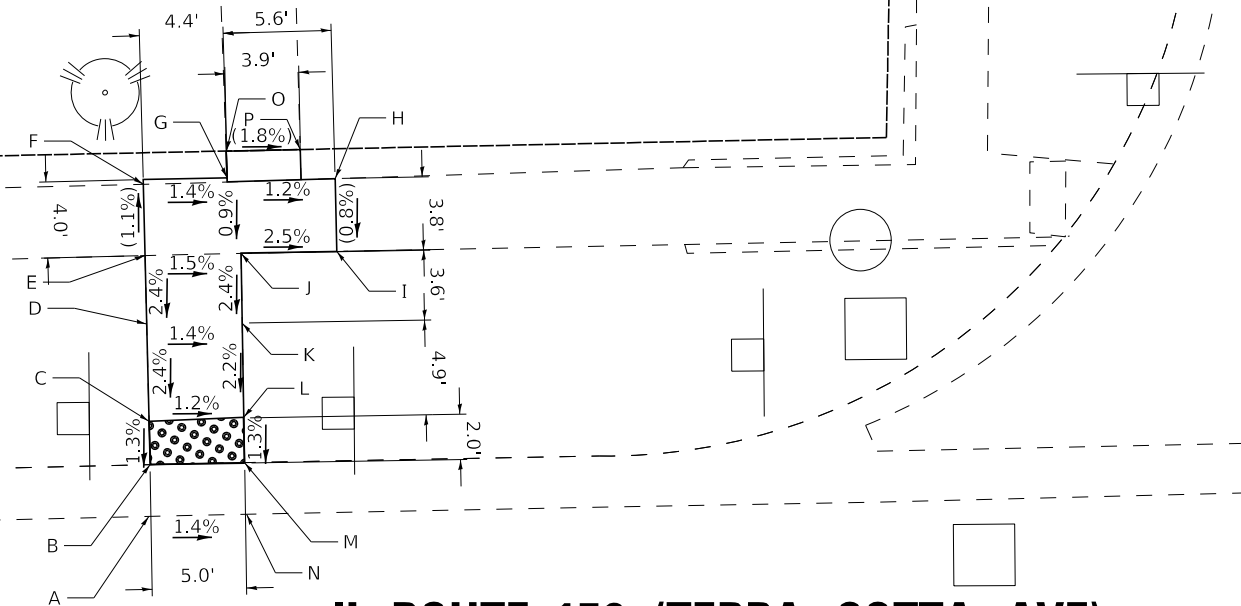
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

**SIDEWALK RAMP DETAIL**  
**ILLINOIS STREET & IL ROUTE 176 (TERRA COTTA AVE)**  
 SCALE: 1" = 5' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 335	SECTION 15-00124-00-PV	COUNTY MCHENRY	TOTAL SHEETS 121	SHEET NO. 89
CONTRACT NO. 61H27				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM  
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	STATION	OFFSET	ELEVATION
A	118+45.9	14.3'	(889.41')
B	118+45.7	16.9'	889.37'
C	118+45.8	19.2'	889.40'
D	118+45.7	24.2'	889.52'
E	118+45.7	27.9'	(889.61')
F	118+45.7	31.6'	(889.57')
G	118+50.6	31.6'	889.50'
H	118+55.7	31.7'	(889.44')
I	118+55.7	27.9'	(889.41')
J	118+50.7	27.8'	889.54'
K	118+50.7	24.2'	889.45'
L	118+50.7	19.3'	889.34'
M	118+50.7	16.9'	889.31'
N	118+50.7	14.3'	(889.35')
O	118+50.0	33.2'	(889.56')
P	118+53.9	33.2'	(889.49')

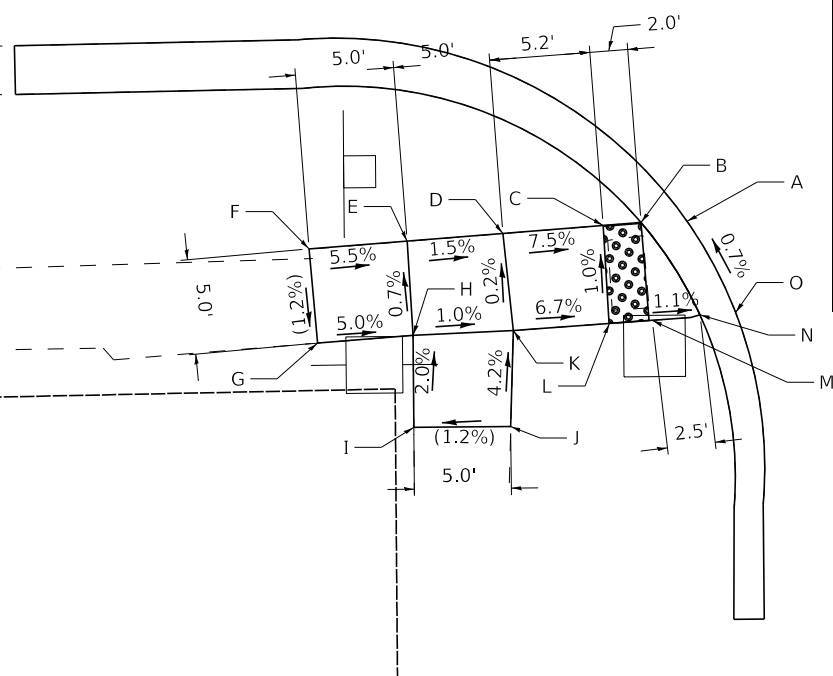


**IL ROUTE 176 (TERRA COTTA AVE)**

118

11

	STATION	OFFSET	ELEVATION
A	118+11.5	24.2'	(889.26')
B	118+09.1	24.4'	889.22'
C	118+07.2	24.5'	889.36'
D	118+01.9	24.8'	889.76'
E	117+96.9	25.1'	889.84'
F	117+91.9	25.1'	(890.11')
G	117+92.2	30.2'	(890.05')
H	117+97.2	29.9'	889.80'
I	117+97.1	34.8'	(889.90')
J	118+02.0	34.9'	(889.96')
K	118+02.4	29.9'	889.75'
L	118+07.4	29.6'	889.42'
M	118+09.5	29.5'	889.29'
N	118+12.2	28.9'	889.26'
O	118+13.9	29.1'	(889.30')



**GLEN AVENUE**



USER NAME = asramek	DESIGNED - DJS	REVISED -
DRAWN - KAR	REVISOR -	
PLOT SCALE = 10.0000' / in.	CHECKED - AKS	REVISED -
PLOT DATE = 8/27/2021	DATE - 08-26-2021	FILE - 181171_ss2-sht-ADA-7-Glen.dgn

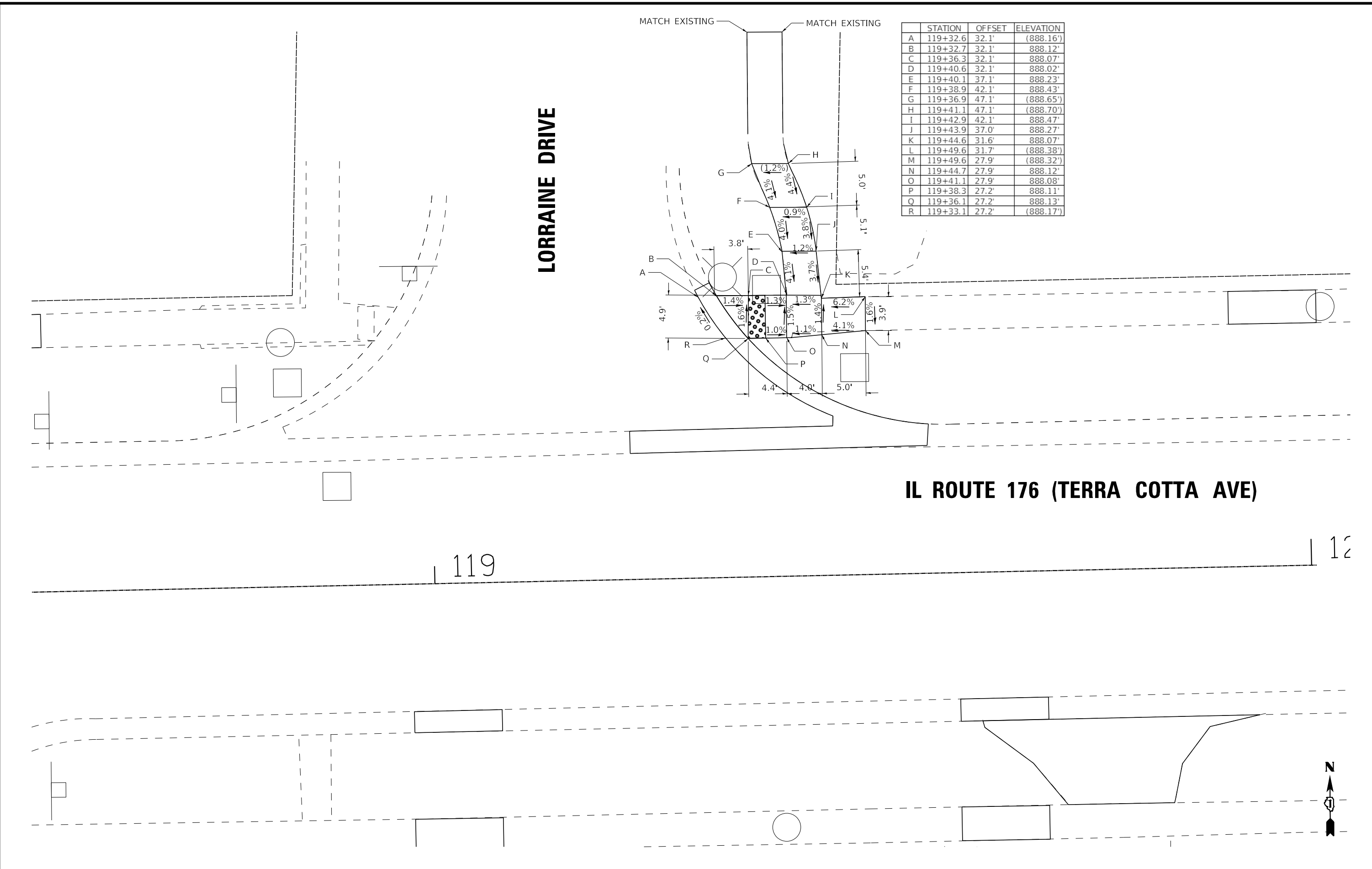
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

**SIDEWALK RAMP DETAIL**  
**GLEN AVENUE & IL ROUTE 176 (TERRA COTTA AVE)**  
 SCALE: 1" = 5' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 335	SECTION 15-00124-00-PV	COUNTY MCHENRY	TOTAL SHEETS 121	SHEET NO. 90
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H27	



STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM  
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	STATION	OFFSET	ELEVATION
A	119+32.6	32.1'	(888.16')
B	119+32.7	32.1'	888.12'
C	119+36.3	32.1'	888.07'
D	119+40.6	32.1'	888.02'
E	119+40.1	37.1'	888.23'
F	119+38.9	42.1'	888.43'
G	119+36.9	47.1'	(888.65')
H	119+41.1	47.1'	(888.70')
I	119+42.9	42.1'	888.47'
J	119+43.9	37.0'	888.27'
K	119+44.6	31.6'	888.07'
L	119+49.6	31.7'	(888.38')
M	119+49.6	27.9'	(888.32')
N	119+44.7	27.9'	888.12'
O	119+41.1	27.9'	888.08'
P	119+38.3	27.2'	888.11'
Q	119+36.1	27.2'	888.13'
R	119+33.1	27.2'	(888.17')

	USER NAME = asramek	DESIGNED - DJS	REVISED -
	PLOT SCALE = 10.0000' / in.	DRAWN - KAR	REVISED -
	PLOT DATE = 8/27/2021	CHECKED - AKS	REVISED -
		DATE - 08-26-2021	FILE - 181171_ss2-sht-ADA-8-Lorraine.dgn

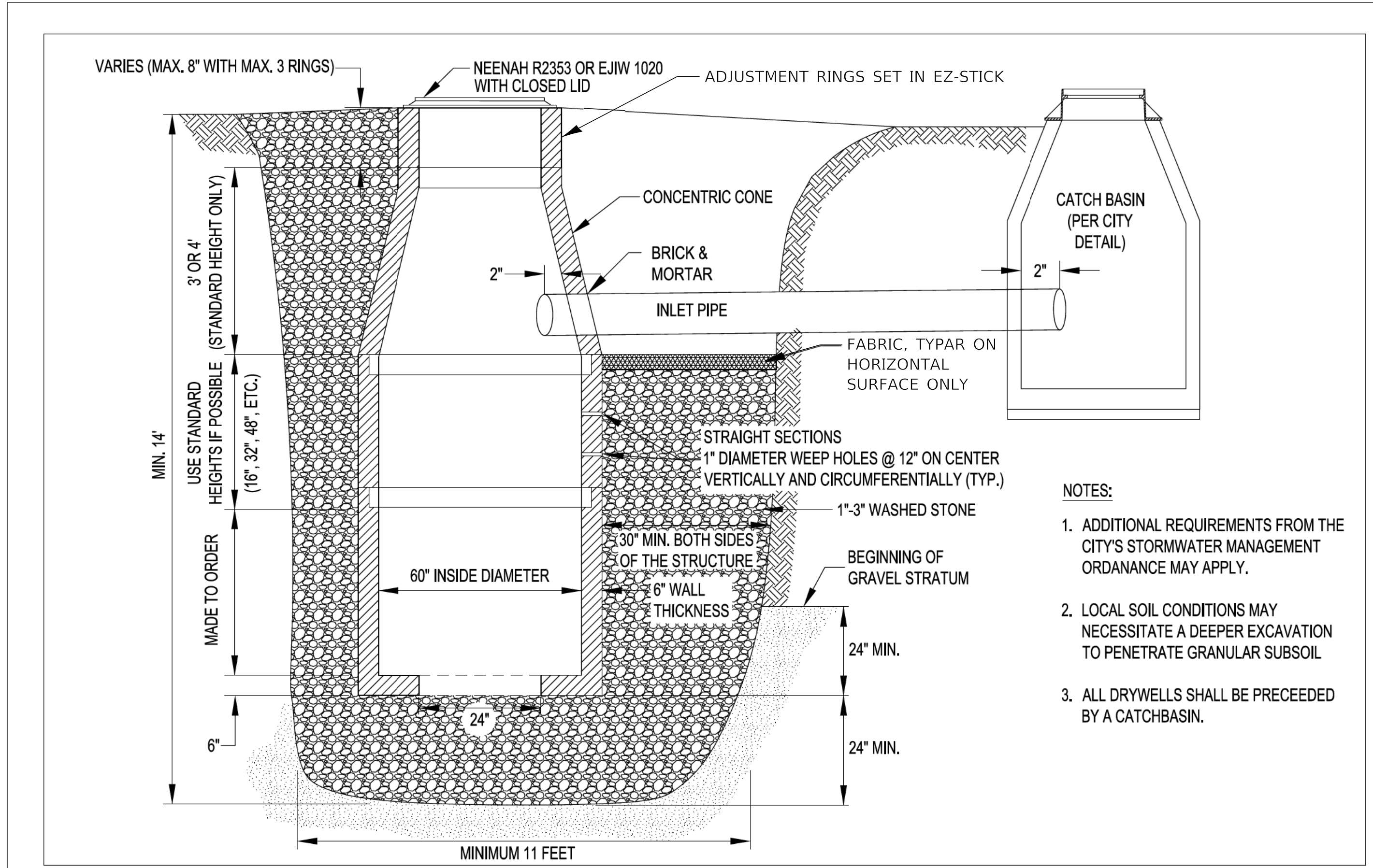
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

**SIDEWALK RAMP DETAIL**  
**LORRAINE DRIVE & IL ROUTE 176 (TERRA COTTA AVE)**

SCALE: 1" = 5'  
 SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	15-00124-00-PV	MCHENRY	121	91
			CONTRACT NO. 61H27	
ILLINOIS FED. AID PROJECT				

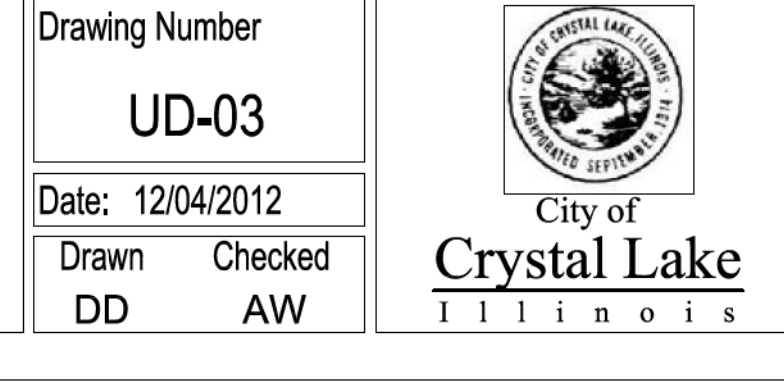
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 8/27/2021  
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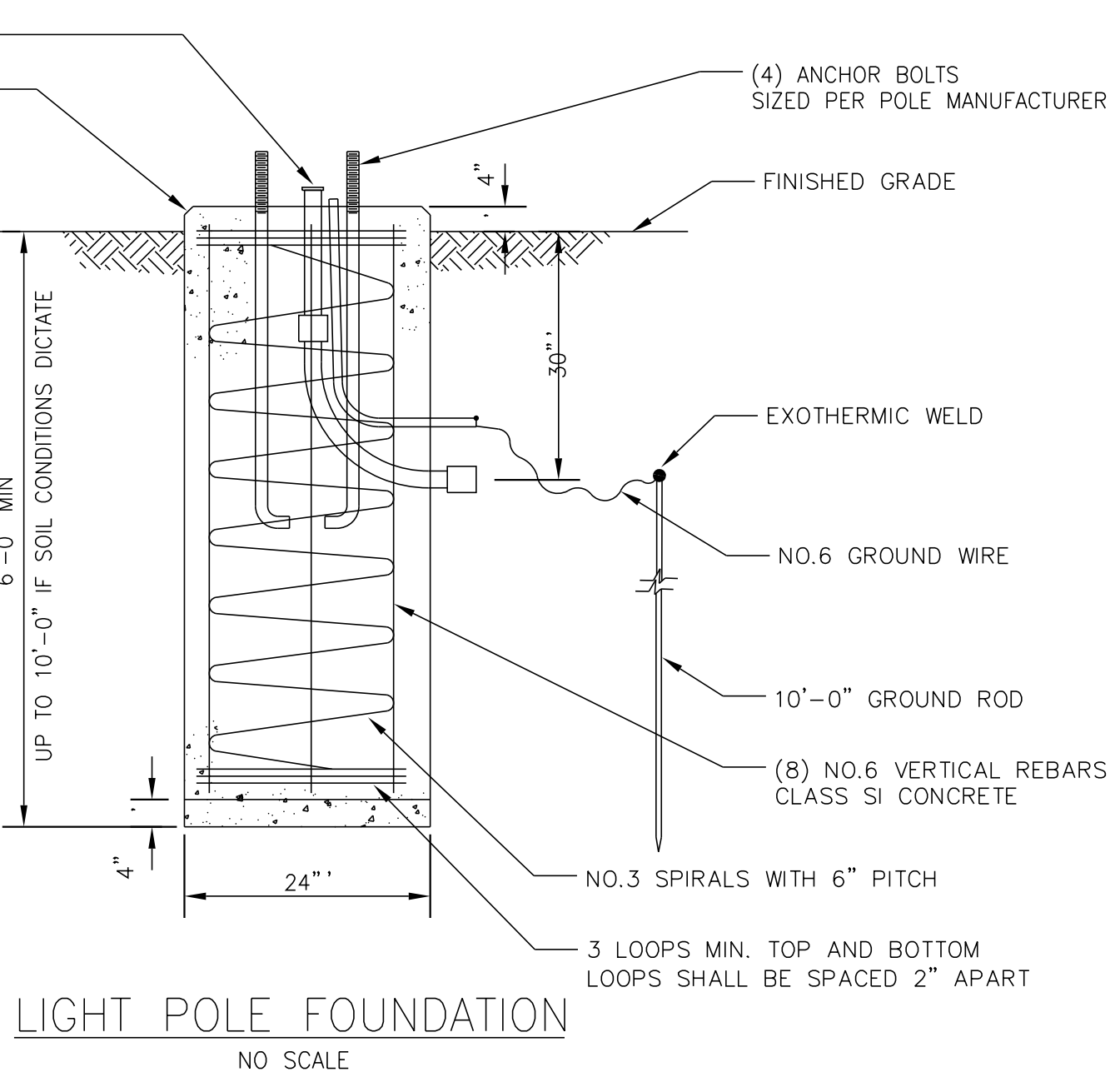
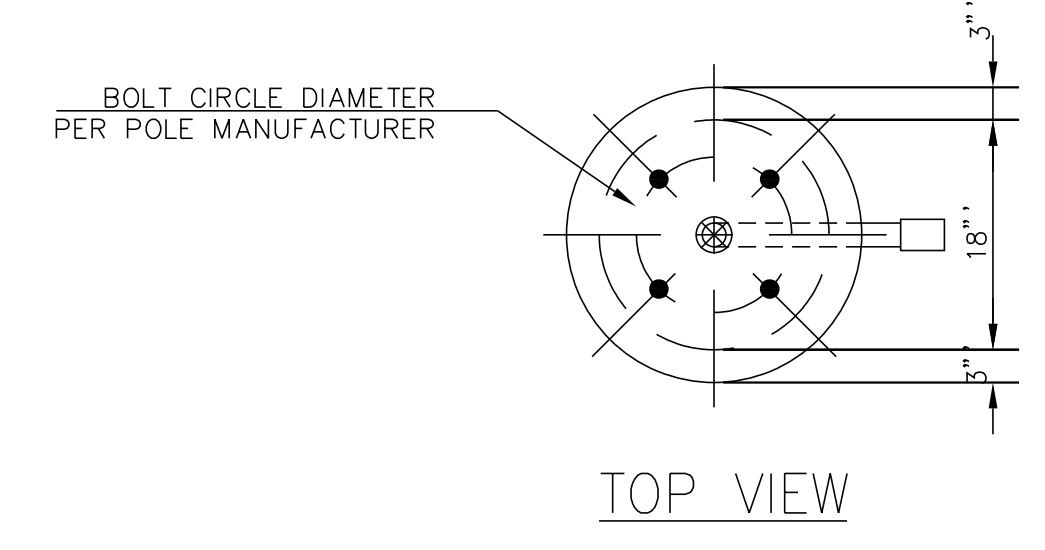
UD-03

Revised:	Drawing Name
1. 06/12/2015	<b>DRYWELL</b>
2. 08/21/2018	
3.	
4.	

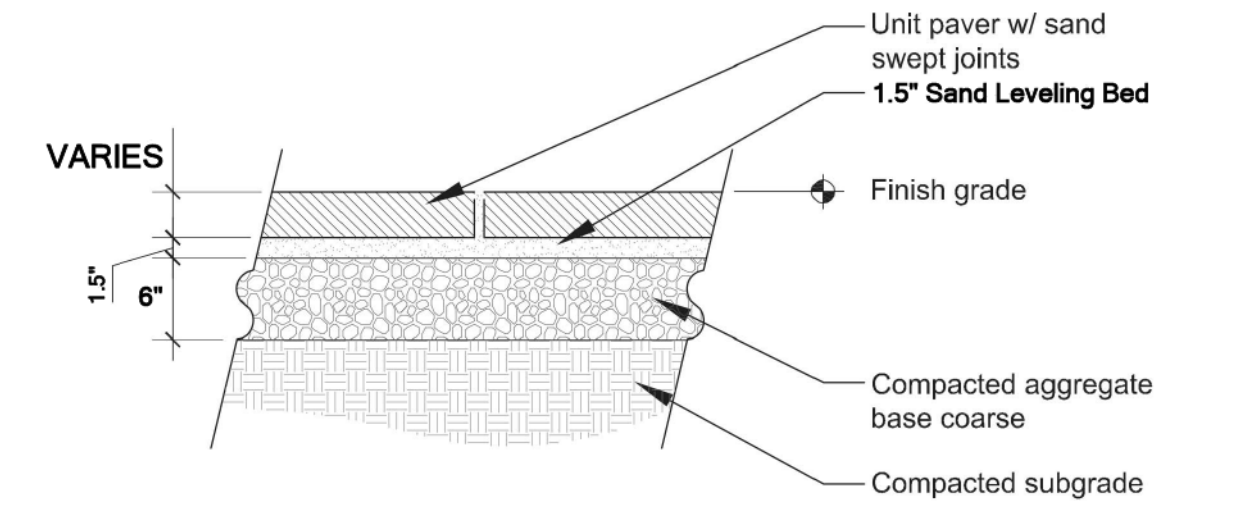
Drawing Number	UD-03
Date:	12/04/2012
Drawn	DD
Checked	AW



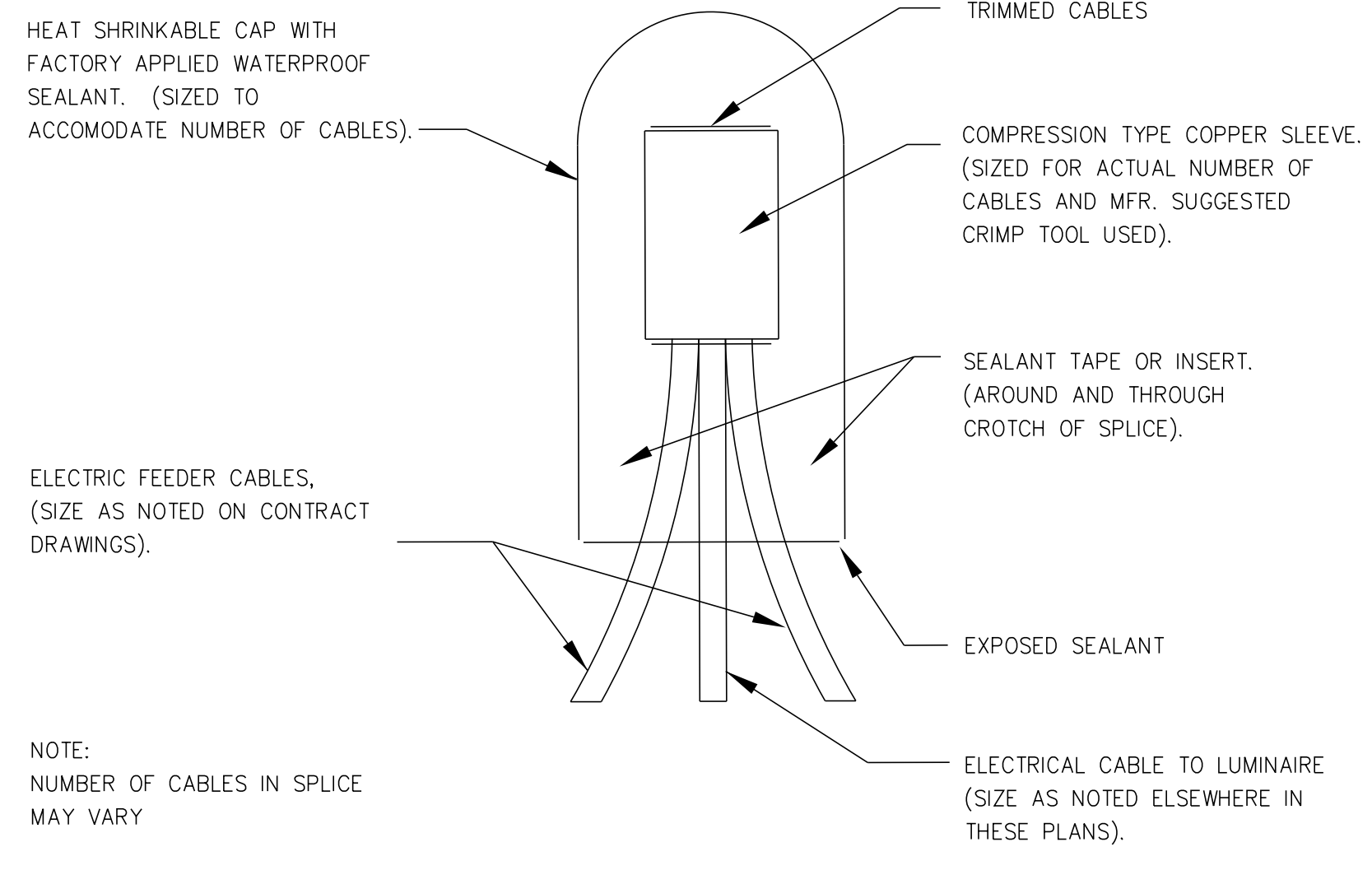
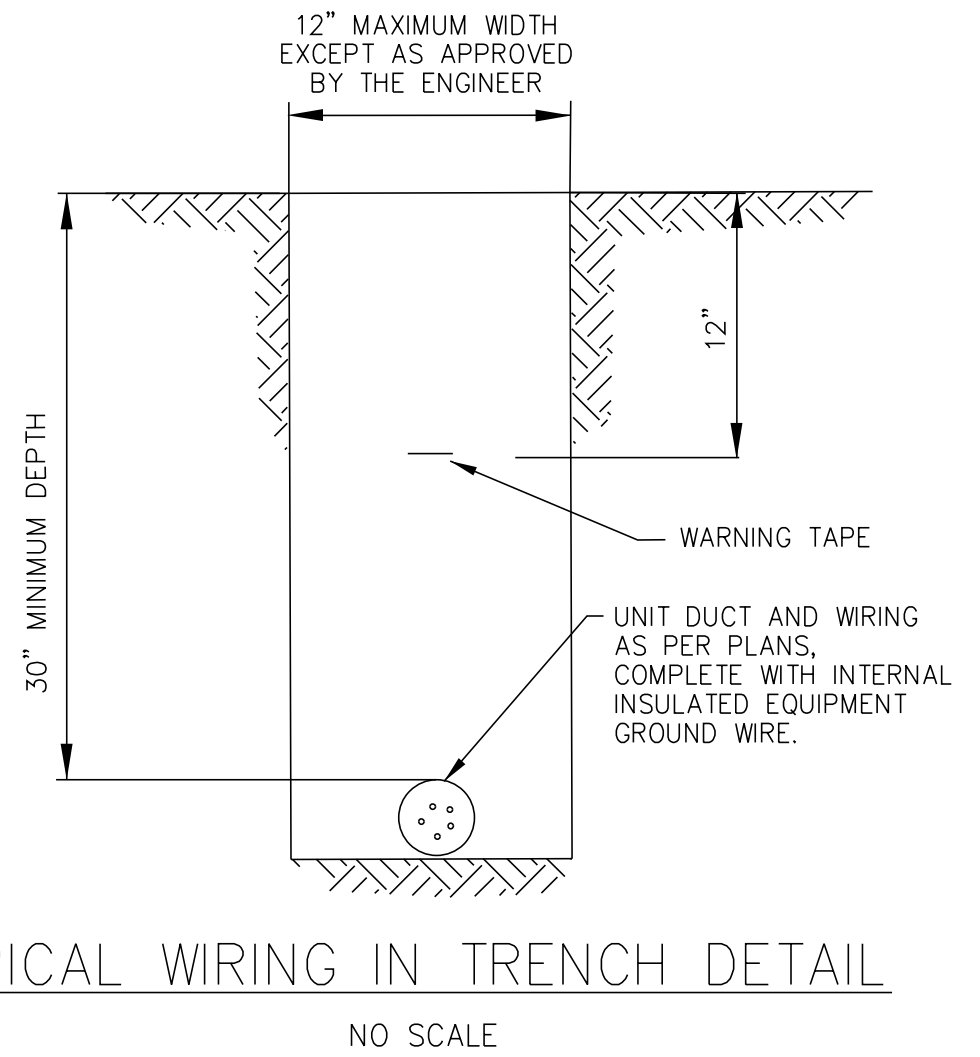
- NOTES:
1. THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY CENTERED AND SECURED IN PLACE BEFORE THE CONCRETE IS PLACED.
  2. THE HOLE FOR THE FOUNDATION SHALL BE MADE WITH AN AUGER OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
  3. THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED 1 INCH.
  4. CABLE TRENCHES AND FOUNDATIONS SHALL BE BACKFILLED AND COMPACTED, AND CONCRETE CURED ACCORDING TO APPLICABLE STANDARDS BEFORE LIGHT POLES MAY BE INSTALLED.
  5. THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE ANCHOR ROD SHALL BE THREADED A MINIMUM OF 6 INCHES WITH A MINIMUM OF 3" OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION AND PROJECT A MINIMUM OF 2 3/4" ABOVE THE TOP OF THE FOUNDATION.
  6. THE CONTRACTOR MAY USE A #3 SPIRAL AT 6" PITCH OR #3 TIES AT 12" O.C.
  7. RACEWAYS SHALL PROJECT 1" ABOVE THE TOP OF THE FOUNDATION.
  8. THE REBAR CAGE SHALL COMPLY WITH SECTION 508 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.



NOTE:  
 FORM FOUNDATION A MIN. OF 8" BELOW GRADE LINE.



**4** Unit Paving - Flexible Base  
 Scale: 1 1/2" = 1'-0"



NOTE:  
 NUMBER OF CABLES IN SPLICE MAY VARY



USER NAME = asramek	DESIGNED - DJS	REVISED -
PLOT SCALE = 40.0000" / in.	DRAWN - KAR	REVISED -
PLOT DATE = 8/27/2021	CHECKED - AKS	REVISED -
	DATE - 08-26-2021	FILE - 181171_ss2-sht-MiscDets.dgn

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS			
SCALE: NONE	SHEET 1 OF 2 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	15-00124-00-PV	MCHENRY	121	92
CONTRACT NO. 61H27				
ILLINOIS   FED. AID PROJECT				

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM  
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2022  
 asram@baxterwoodman.com 8/27/2021 1:32:35 PM  
 FILE NAME: I:\C:\Users\Baxter\OneDrive\Baxter\Projects\181171\_5s2-sht-MiscDets.dgn  
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**TOPSOIL STOCKPILING:**

1. Location of any on-site topsoil stockpiles shall be identified on the approved plans with silt fence installed around the perimeter of the stockpile.
2. Topsoil stockpiled for future use shall be relatively free from large roots, sticks, weeds, brush, stones larger than one (1) inch diameter, or other litter and waste products including other extraneous materials not conducive to plant growth.
3. Topsoil shall be stockpiled in sequence to eliminate any re-handling or double movements by the Contractor. Failure to properly sequence the stockpiling operations shall not constitute a claim for additional compensation. No material shall be stockpiled in front yards, in utility easements, or in the right-of-way lines.
4. If a stockpile is to remain in place for more than (14) calendar days, it is required that the stockpile meet the requirements as outlined in section 595 of the City Code.

**UNDERGROUND UTILITY:**

1. The Contractor shall coordinate water main, water service, sanitary and storm sewer inspections and testing with the Community Development at least 24 hours in advance.
2. All main line sanitary shall be cleaned and televised (provide DVD to the City's Engineering Division).
3. All manhole or valve covers shall be imprinted "City of Crystal Lake Sanitary", or "City of Crystal Lake Storm", or "City of Crystal Lake Water" as directed by the City.
4. Reference the latest edition of the Standard Specifications for Water and Sewer Main Construction in Illinois.
5. Existing manholes to be circular cored and booted.


**EROSION CONTROL:**

1. All specified erosion control measures shall be installed and maintained per the requirements of the Crystal Lake Stormwater Ordinance in accordance with the active NPDES permit.
2. All slopes 4:1 or steeper shall be sodded or blanketed immediately after mass earthwork.
3. All overland flow routes to be stabilized by sod or blanket.
4. Erosion control measures to be inspected and approved by City Engineering Division prior to additional work on site.
5. Continuous monitoring of erosion control measures is required. Maintain records of weekly reports per the City of Crystal Lake Stormwater Ordinance.
6. The Contractor shall implement any additional erosion control measures deemed necessary by the City per the standards of the City Of Crystal Lake Stormwater Ordinance.
7. All storm sewer catch basins, sumps and/or retention basins provided are to be cleaned at the end of construction of the project prior to final acceptance. Cleaning may also be required during the course of the construction of the project if it is determined that the silt and debris traps are not properly functioning and their performance is impaired.
8. Rip-rap material RR 2 (6") - RR4 (16") shall be in accordance with Article 281
9. Projects of 1 Acre or greater must obtain an NPDES permit prior to commencement of any construction activity.

Revised:
1. 06/12/2015
2. 02/25/2020
3.
4.

Drawing Name
<b>STANDARD NOTES AND SPECIFICATIONS</b>

Drawing Number	GE-02b
Date:	01/30/15
Drawn	Checked
DD	AW



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**WATER MAIN:**

1. Water main shall be Ductile Iron or Molecularly Oriented Polyvinyl Chloride (PVC).
  - a) Ductile iron water main shall be Class 52 conforming to ANSI/AWWA C151/A21.51-09.
  - b) Ductile iron fittings shall conform to ANSI/AWA C153/A21.53 with mechanical joint gaskets.
  - c) PVC - See City Detail UW-12 and UW-13.
2. All bolted connections shall be torqued to the manufacturer's specification. The Contractor shall verify the manufacturer's specification with an approved torque wrench.
3. Thrust blocking or Mega-Lugs with Mega-Bond coating shall be installed on water mains at all bends, tees, elbows, etc. except as noted below.
4. Thrust blocks not permitted with 45 degree vertical bends in water main (these shall be restrained with Mega-Lug).
5. When specified, ductile iron pipe shall be encased in polyethylene and shall conform with ANSI/AWWA C105/A21.10 - 10 and ASTM A674-10.
6. Minimum cover from finished grade to top of water main shall be six (6) feet; Maximum cover shall be eight (8) feet.
7. Water Main Taps: An Illinois licensed plumber is required for any water main tap.
8. All water mains shall be subjected to a pressure test and a separate leakage test at system pressure for 24 hours by the Contractor. Hydrostatic pressure test and leakage test shall be based on 125 PSI for two (2) hours. Water mains shall be chlorinated in accordance with the Standard Specifications.
9. The Underground Contractor shall consider incidental to the contract any chlorination and testing of existing water main where connections to and conclusion of such mains is indicated on the drawing.


**PAVING:**

1. All subgrades and bases shall be proof-rolled and approved by the Engineering Division prior to base or binder installation.
2. Subgrade and proposed pavements shall be finished by the Excavation Contractor to within 0.1 foot plus or minus, of plan elevation.
3. The Paving Contractor shall ensure that the subgrade has been properly prepared and that the finished top of subgrade elevation has been graded within the tolerances allowed in these specifications. Unless the Paving Contractor advises the owner and engineer in writing prior to fine grading for base course construction, it is understood that the Contractor has approved and accepts responsibility for the subgrade.
4. For the purpose of providing handicap accessibility and complying with the American Disability Act and City Standards, curbs shall be depressed at locations where public walks or pedestrian paths intersect curb lines at street intersections and other locations as directed.
5. ¾ inch thick premolded fiber expansion joints with two (2) No. 4 plain round steel dowel bars shall be installed at designated intervals and at all P.C., P.T., curb returns and at the end of each pour. Alternate ends of the dowel bars shall be greased and fitted with metal expansion tubes.
6. ¾ inch thick fiber expansion joints shall be used in every case where the sidewalk coincides with the curb and gutter. Contraction joints shall be saw cut at designated intervals in the curb. The cost of these joints shall be considered as incidental to the cost of the contract.
7. All poured in place concrete curb and gutter shall incorporate two (2) No. 4 reinforcing bars installed wherever the curb and gutter crosses utility service lines, the cost of which shall be considered incidental to the cost of concrete curb and gutter.
8. Sidewalks (where required) shall be of the thickness and dimensions as shown in the construction plans. All sidewalk concrete shall be a minimum of 6.1 bag mix (or IDOT class S) concrete and shall develop a minimum of 3,500 psi compressive strength at fourteen (14) days. Contraction joints shall be set at five (5) foot centers, and one-half inch (½ inch) premolded fiber expansion joints at fifty (50) foot centers and where the sidewalk meets the curb or another sidewalk, or at the end of each pour. All sidewalks constructed over utility trenches and/or abutting driveway aprons shall be reinforced with three (3) No. 4 reinforcing bars (10 foot minimum length).

Revised:
1. 06/12/2015
2. KL 01/25/2021 Torque Specification
3.
4.

Drawing Name
<b>STANDARD NOTES AND SPECIFICATIONS</b>

Drawing Number	GE-02d
Date:	01/30/15
Drawn	Checked
DD	AW



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USER NAME = asram@baxterwoodman.com	DESIGNED - DJS	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - KAR	REVISED -
PLOT DATE = 8/27/2021	CHECKED - AKS	REVISED -
	DATE - 08-26-2021	FILE - 181171_5s2-sht-MiscDets.dgn

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**MISCELLANEOUS DETAILS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	15-00124-00-PV	MCHENRY	121	93
CONTRACT NO. 61H27				
ILLINOIS FED. AID PROJECT				

**GENERAL SITE-WORK:**

1. Pre-Construction meeting shall be conducted with City Staff and all Contractors prior to commencing any grading or underground utility construction activities (schedule meeting with the Community Development Department at 815-356-3605).
2. 24-hour Emergency contact numbers shall be provided to City Staff at the Pre-Construction meeting.
3. Working hours shall be limited to the hours of 7:00 a.m. and 7:00 p.m. on weekdays only (except in cases of emergency). Non-emergency work on weekends or holidays is not permitted per City Code except under written permission from the City Engineer. The owner is responsible for the City Inspector cost of overtime inspection beyond the normal eight (8) hour day, including weekends and holidays.
4. Public/private streets shall be kept free of dirt and debris with regular cleaning, sweeping, and scraping conducted by the Contractor. Junk and debris shall not be allowed to accumulate, blow, or scatter onto streets or adjacent properties.
5. J.U.L.I.E. shall be contacted for utility locations on-site and in the adjacent rights-of-way.
6. Contractor shall provide and maintain fencing, barricades, traffic control signs, and other safeguarding measures during the course of all work to protect the public from the construction operations.
7. Maintain access to adjacent streets during construction. No closing of streets unless approval is first obtained from the agency with jurisdiction (City of Crystal Lake, McHenry County Department of Transportation, Illinois Department of Transportation, etc).
8. Any damage to public right-of-way, public utilities, streets, curb, etc. shall be repaired/replaced as soon as possible and as directed by the City Engineer.
9. The contractor shall give the City of Crystal Lake, Illinois Department of Transportation, and any other governmental agency having jurisdiction, at least two (2) working days notice excluding Saturday and Sunday prior to the initiation of any phase of construction. Contractor shall immediately notify if construction has ceased and renew the two (2) working day notification thereafter.
10. The Contractor shall be responsible for obtaining all required permits for construction prior to commencement along or across existing streets or highways. The Contractor shall make arrangements for the proper bracing, shoring and other protection of all roadways before construction begins.


**GRADING:**

1. The grading and construction of the site improvements shall not cause ponding of storm sewer water. All areas adjacent to these improvements shall be graded to allow positive drainage.
2. The proposed grading elevations shown on the plans are finished grade. A minimum of six (6) inches of topsoil is to be placed before finished grade elevations are achieved.
3. Embankment material within parkway and open space areas shall be compacted to a minimum of ninety percent (90%) of maximum density in accordance with ASTM Specification D-1557 (modified proctor method), or to such other density as may be determined appropriate by the soils engineer.
4. All subgrade material shall have a minimum CBR (California Bearing Ratio) of 3.0 as determined by the soils engineer, or base replacement and pavement design revisions shall be provided which are adequate to obtain equivalent pavement strength.
5. Proposed pavement areas, building pads, driveways and sidewalks and yard/open space areas shall be excavated or filled to plus or minus 0.1 foot of design subgrade elevations by the Contractor.
6. Any borrow pit locations shall be identified by the Contractor on a copy of the approved site plans and forwarded to the Engineering Division at least 24-hours prior to excavation. Provide backfill compaction reports from a geotechnical engineer and as-built plans to the Engineering Division for any borrow pit area.
7. Backfill shall be monitored by a geotechnical engineer on-site with compaction reports forwarded to the Engineering Division for review.
8. Water truck shall be on-site at all times during mass-grading operations and be available as needed for the purposes of dust control or at the request of City Staff.
9. Use of City fire hydrants is not allowed unless approved (separate from this permit) by the Public Works Department and a hydrant meter and RPZ is obtained from the City of Crystal Lake Water Division (815-356-3614). Only the City of Crystal Lake Water Division may operate valves and hydrants.

Revised:
1. 06/12/2015
2.
3.
4.

Drawing Name
<b>STANDARD NOTES AND SPECIFICATIONS</b>

Drawing Number	GE-02a
Date:	01/30/15
Drawn	Checked
DD	AW



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GE-02b

GE-02d

GE-02a



STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM  
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 8/27/2021  
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UW-04

ALL SERVICE TAPS ON EXISTING WATER MAIN SHOULD BE DONE WITH A STAINLESS STEEL SMITH BLAIR 317 CONTROLLED OD SERVICE SADDLE OR APPROVED EQUAL.

DIRECT TAP INSTALLATION ON NEW DUCTILE IS ACCEPTABLE WATER MAIN (8" MIN.)

TYPE K SOFT COPPER 1" MIN.

6" MINIMUM DEPTH  
8" MAXIMUM DEPTH

MUELLER, FORD, OR A.Y. McDONALD CURB BOX (72" EXTENDED) CAST WITH BRASS PENTAGON PLUG AND MINNEAPOLIS PATTERN

7" MIN.

CONCRETE BLOCK

MUELLER, FORD, OR A.Y. McDONALD CORPORATION STOP AND MINNEAPOLIS PATTERN, NO LEAD

MUELLER, FORD, OR A.Y. McDONALD CORPORATION STOP COMPRESSION ONLY

**NOTES:**

- NO CORPORATION STOPS OR CURB BOXES MAY BE LOCATED UNDER PAVED AREAS INCLUDING DRIVES AND SIDEWALKS.
- ALL WATER MAIN HARDWARE SHALL BE MUELLER, A.Y. McDONALD, OR FORD. NO LEAD, COMPRESSION ONLY.
- SERVICE TO BE CONTINUOUS WITHOUT JOINTS FROM CORPORATION STOP TO CURB STOP.
- MULTIPLE TAPS INTO MAIN SHALL BE NO CLOSER THAN 2' APART.
- TRENCH FROM MAIN TO BACK OF SIDEWALK TO BE COMPACTED TRENCH BACKFILL.
- NO FLARE FITTINGS WILL BE ACCEPTED. COMPRESSION ONLY.
- ALL CURB BOX ADJUSTMENTS TO BE MADE WITH GALVANIZED PIPE AND COUPLINGS (SCREWED ON).
- B-BOXES (TWO OR MORE) FOR ALL MULTI-UNIT BUILDINGS MUST BE CLEARLY AND PERMANENTLY LABELED BY WELDING THE UNIT NUMBER/LETTER ONTO THE B-BOX TOP.
- B-BOXES TO BE USED FOR SERVICES LESS THAN OR EQUAL TO 2".

PART DESCRIPTION	MUELLER CAT. NO.	FORD CAT. NO.	A.Y. McDONALD CAT. NO.	SERVICE SIZE
CORP. STOP	BR 2 S 0684 CC	F81000-Q	4701BQ	
DOUBLE STRAP SERVICE SADDLE	BR 2 S 0899 CC	202BS-750-CC	3855 6	
	BR 2 S 1104 CC	202BS-962-CC	3855 8	
	BR 2 S 1314 CC	202BS-1212-CC	3855 10	
	BR 2 S 1314 CC	202BS-1438-CC	3855 12	
STOP CURB	B-25155	B44-M-Q	61040	
CURB BOX	H-10300	EM2-60-56	5614	1"
	H-10300-99002	EM2-60-57	5615	1.5" & 2"

Revised:  
1. 06/12/2015  
2. 01/25/2021 KL Eliminate 1.25" Services  
3.  
4.

Drawing Name  
**WATER SERVICE INSTALLATION FOR DUCTILE AND CAST IRON WATER MAIN**

Drawing Number  
**UW-04**

Date: 03/17/2014

Drawn DD Checked VR

City of Crystal Lake Illinois

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UW-03

**BEARING AREA (SQ. FT.)**

PIPE SIZE	TEE/PLUG	90°	45°	21 1/2"	11 1/4"
6	4	2	1	1	1
8	6	4	3	1	1
10	7	5	3	1	1
12	8	6	4	2	2
14	12	9	6	3	3
16	15	12	7	3	3
18	18	15	9	4	4
24	40	30	15	5	5

**NOTES:**

ALL BLOCKING SHALL BE POURED CLASS SI CONCRETE AGAINST UNDISTURBED EARTH.

ALL BENDS OR ELBOWS GREATER THAN OR EQUAL TO 1 1/4" SHALL HAVE THRUST BLOCKING. FORM AS TO NOT COVER BOLTS.

IN LIEU OF THRUST BLOCKING, \*MEGA LUG\* (EBAA) JOINT RESTRAINTS CAN BE USED AS APPROVED BY THE ENGINEER.

Revised:  
1. 06/12/2015  
2.  
3.  
4.

Drawing Name  
**THRUST BLOCK INSTALLATION**

Drawing Number  
**UW-03**

Date: 05/29/2015

Drawn JH Checked VR

City of Crystal Lake Illinois

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UW-08

**CITY OF CRYSTAL LAKE WATER MAIN CHLORINATION SPECIFICATIONS:**

- DISINFECTION OF WATER MAINS SHALL BE DONE IN ACCORDANCE WITH THE STATE OF ILLINOIS STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION, CURRENT EDITION
- THE CITY ENGINEERING DIVISION AND WATER DIVISION SHALL BE NOTIFIED 48 HOURS IN ADVANCE FOR SCHEDULING OF ANY TESTING CHLORINATING, FLUSHING, OR SAMPLING.
- ONLY CITY WATER DIVISION PERSONNEL MAY OPERATE WATER VALVES ON LIVE MAINS.
- A WATER VALVE JUMPER IS REQUIRED TO MAINTAIN PRESSURE ON THE CHLORINATED LINES DURING THE SAMPLING PROCEDURE FOR PROPER INSTALLATION AND REQUIREMENTS SEE THE STANDARD WATER VALVE JUMPER DETAIL.
- WATER MAINS SHALL BE FLUSHED WITH A MINIMUM VELOCITY OF 2.5 FPS.
- THE INITIAL CHLORINE CONCENTRATION SHALL BE 50 mg/L WITH A MINIMUM 24 HOUR RESIDUAL OF 25 mg/L.
- THE METHOD OF CHLORINE APPLICATION SHALL BE APPROVED BY THE CITY:
  - LIQUID CHLORINE W/CHLORINATING DEVICE WITH BACKFLOW PREVENTER.
  - CHLORINE BEARING COMPOUNDS IN WATER.
  - TABLET DISINFECTION.
- ALL NEW VALVES AND HYDRANTS SHALL BE OPERATED WHILE LINE IS BEING CHLORINATED.
- THE CITY ENGINEERING DIVISION SHALL DETERMINE LOCATION AND QUANTITY OF CORPORATION STOPS FOR FLUSHING AND CHLORINATING.
- THE FINAL FLUSHING RESIDUAL IN THE NEW CHLORINATED LINES SHALL BE BETWEEN 0.2 AND 2.0 mg/L.
- ALL WATER SAMPLES SHALL BE COLLECTED ON TWO (2) CONSECUTIVE DAYS AND PASS BACTERIOLOGICAL TEST RESULTS. IN THE EVENT THAT THE FIRST SET OF SAMPLES TAKEN TWO (2) CONSECUTIVE DAYS APART FAIL TO PASS, ANOTHER SET OF SAMPLES MAY BE TAKEN TWO (2) DAYS APART (PER STATE SPECS). IF THE SECOND SET FAILS TO PASS TESTING, THEN THE PROCEDURE MUST BE REPEATED WITH THE MAIN BEING RECHLORINATED, REFRESHED, AND RESAMPLED.
- STATE CERTIFIED LAB MUST BE USED FOR SAMPLES.

**CHLORINE REQUIREMENTS TO PRODUCE 50 mg/L CONCENTRATION IN 100 FEET OF PIPE-BY DIAMETER**

PIPE SIZE IN INCHES	100% CHLORINE, LB.	1% CHLORINE SOLUTION, GALS.
4	0.027	0.33
6	0.061	0.73
8	0.108	1.30
10	0.170	2.04
12	0.240	2.88

**NUMBER OF 5-GRAIN HYPOCHLORITE TABLETS REQUIRED FOR A DOSAGE OF 50mg/L PER LENGTH OF PIPE SECTION**

PIPE SIZE IN INCHES	LENGTH OF PIPE SECTION IN FEET			
	UP TO 13	18	20	30
2	1	1	1	1
4	1	1	2	2
6	2	2	3	4
8	2	3	5	6
10	3	5	7	9
12	5	6	10	14

Revised:  
1. 06/12/2015  
2.  
3.  
4.

Drawing Name  
**CHLORINATION SPECIFICATIONS**

Drawing Number  
**UW-08**

Date: 09/20/2012

Drawn DD Checked VR

City of Crystal Lake Illinois

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UW-06

MIN. 36"  
MIN. 24" MAX. 72"  
1 1/2" - 4" BOTTOM OF BREAKAWAY FLANGE TO FINISHED GRADE

**FIRE HYDRANTS SHALL BE FROM THE FOLLOWING LIST, AS APPROVED BY THE CITY:**

- MUELLER SUPER CENTURION 250 FIRE HYDRANT, A423 (5 1/4" BARREL) WITH MUELLER VALVES/HARDWARE AND AUXILIARY VALVE 6" GATE VALVE NO. 2361 RESILIENT WEDGE - ALL HYDRANTS AND PARTS MUST BE OEM AND COMPLY WITH NO LEAD REQUIREMENTS.
- WATEROUS WB-67-250 HYDRANT (5 1/4" PACER) WITH SERIES 2500-1 RESILIENT WEDGE GATEVALVE - ALL HYDRANTS AND PARTS MUST COMPLY WITH NO LEAD REQUIREMENTS

**LEGEND:**

- PROVIDE CLASS SI CONCRETE BASE AND BLOCKING AGAINST UNDISTURBED EARTH
- DRAIN SUMP TO BE 3/4 CUBIC YARD OF 3/4" WASHED STONE
- CONCRETE SUPPORT
- CONCRETE BLOCK OR BRICK SUPPORT
- RUBBER VALVE BOX STABILIZER
- USE MEGALUG RESTRAINTS WITH GRADE 304 STAINLESS STEEL NUTS AND BOLTS AT ALL MECHANICAL JOINTS.
- CONCRETE BLOCKING
- 4 1/2" PORT TO FACE PAVEMENT OR AS DIRECTED BY CITY ENGINEER
- ALL NEWLY INSTALLED HYDRANTS MUST HAVE 2.4 MILS AMERICO AT PRIMER AND FINISH COAT SHERWIN WILLIAMS POLANE B MIN 4.1 MILS=6.5 MILS TOTAL DRY FILM THICKNESS. COLOR (SAFETY RED)
- MIN. 48" BETWEEN HYDRANT AND ANY VERTICAL OBSTRUCTIONS.
- MIN. 72" BETWEEN HYDRANT AND ANY LANDSCAPING WITH A MATURE HEIGHT GREATER THAN 12".
- ALL UNDERGROUND HARDWARE MUST BE STAINLESS STEEL INCLUDING NUTS, BOLTS, AND WASHERS.

Revised:  
1. 06/12/2015  
2. 01/25/2021 KL Mueller Super Centurion 250 FH Specification  
3.  
4.

Drawing Name  
**FIRE HYDRANT**

Drawing Number  
**UW-06**

Date: 08/01/2015

Drawn JH Checked VR

City of Crystal Lake Illinois

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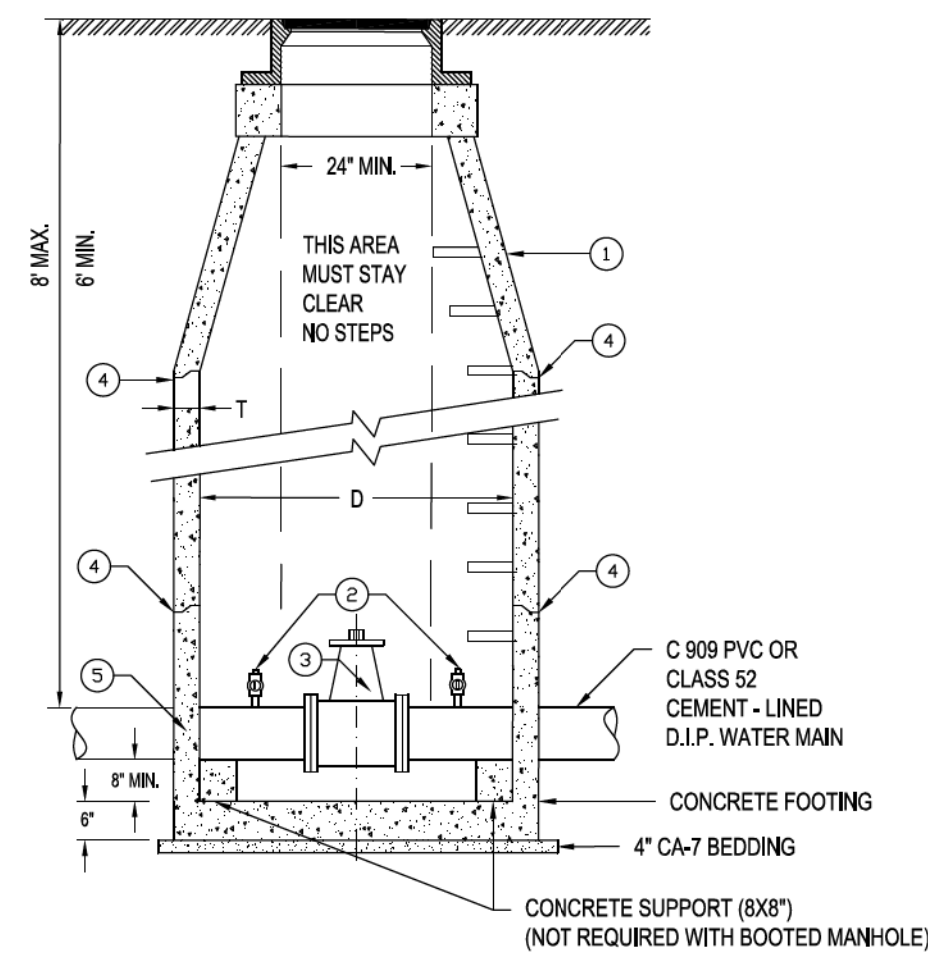
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PLOT DATE = 8/27/2021	CHECKED - AKS	REVISED -
	DATE - 08-26-2021	FILE - 181171_ss2-sht-WM_Dets.dgn

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**WATER MAIN DETAILS**

SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.

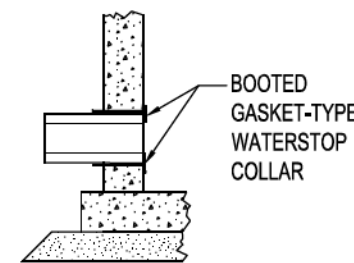
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	15-00124-00-PV	MCHENRY	121	94
			CONTRACT NO. 61H27	
		ILLINOIS	FED. AID PROJECT	



- LEGEND:
- 1 CONCENTRIC CONES REQUIRED
  - 2 3/4" (MIN) MUELLER, A.Y. McDONALD, OR FORD NO LEAD CORPORATION STOP EACH SIDE OF VALVE MUST BE A COMPRESSION FITTING.
  - 3 MUELLER 2361 OR AMERICAN FLOW CONTROL 2500-1 RESILIENT SEAT GATE VALVE
  - 4 WATER TIGHT JOINTS USING EZ-STIK PREMIUM BUTYL SEALANT ASTM C990 FOR FRAMES ADJUSTING RINGS AND BARREL SECTIONS.
  - 5 GASKET-TYPE WATERSTOP COLLAR FOR ALL WATER MAIN CONNECTIONS

- NOTES:
1. ALL MANHOLES MUST BE DAMP PROOF PER IDOT SPECIFICATIONS 1060.
  2. DRAIN FOR VALVE VAULT SHALL BE CONSTRUCTED ONLY WHEN SHOWN ON THE PLANS.
  3. CAST IRON MANHOLE FRAME & COVER SIMILAR TO NEENAH R-1712, OR EQUAL WITH STANDARD DUTY, NON-ROCKING TYPE LIDS WITH "CITY OF CRYSTAL LAKE WATER" CAST INTO LID. (NEENAH R-2535, MAY BE USED IN GRASSY AREAS)
  4. HDPE PLASTIC MANHOLE ADJUSTING RINGS CONFORMING TO THE REQUIREMENTS OF HS25 OF THE AASHTO STANDARD SPECIFICATIONS AND ASTM D1249-84. ALL ADJUSTING RINGS SHALL BE STABILIZED AGAINST ULTRA VIOLET LIGHT. ADJUSTING RING HEIGHT NOT TO EXCEED 8" WITH A MAXIMUM OF THREE (3) ADJUSTMENT RINGS. THE ANNULAR SPACE BETWEEN RINGS AND CONE BASIN. THE RINGS AND THE RINGS COVER FRAME SHALL BE SEALED UTILIZING AND APPROVED BUTYL SEALANT. ALL ADJUSTMENT FOR MATCHING ROAD GRADE SHALL BE MADE UTILIZING A MOLDED AND INDEXED SLOPE RING.
  5. ALL UNDERGROUND NUTS, BOLTS & WASHERS MUST BE STAINLESS STEEL.
  6. VALVE VAULT REQUIRED FOR WATER SERVICES GREATER THAN OR EQUAL TO 4". SEE VAULT SIZE TABLE.

DIAMETER OF WATER MAIN	VAULT SIZE	
	DIAMETER	WALL THICKNESS
4" AND 6"	4 FT.	4"
UP TO 12"	5 FT.	5"
16" AND OVER	6 FT.	6"

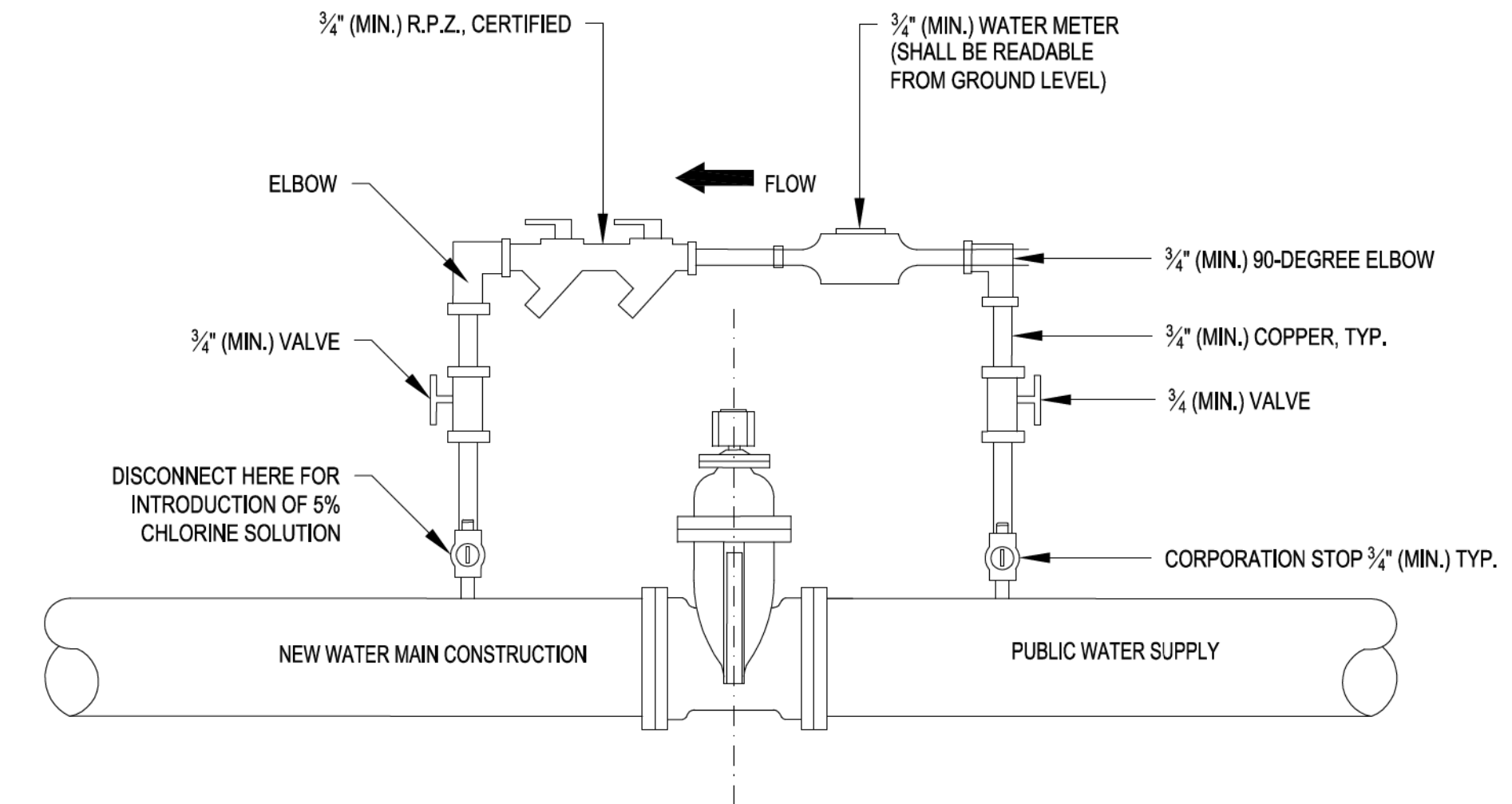


Revised: 1. 06/12/2015  
2. 02/25/2020  
3.  
4.

Drawing Name: **STANDARD VALVE VAULT**

Drawing Number: **UW-01**  
Date: 05/29/2015  
Drawn: JH  
Checked: VR

City of Crystal Lake Illinois



- NOTES:
1. VALVE JUMPER MUST BE ABOVE MANHOLE LID.

Revised: 1. 06/12/2015  
2.  
3.  
4.

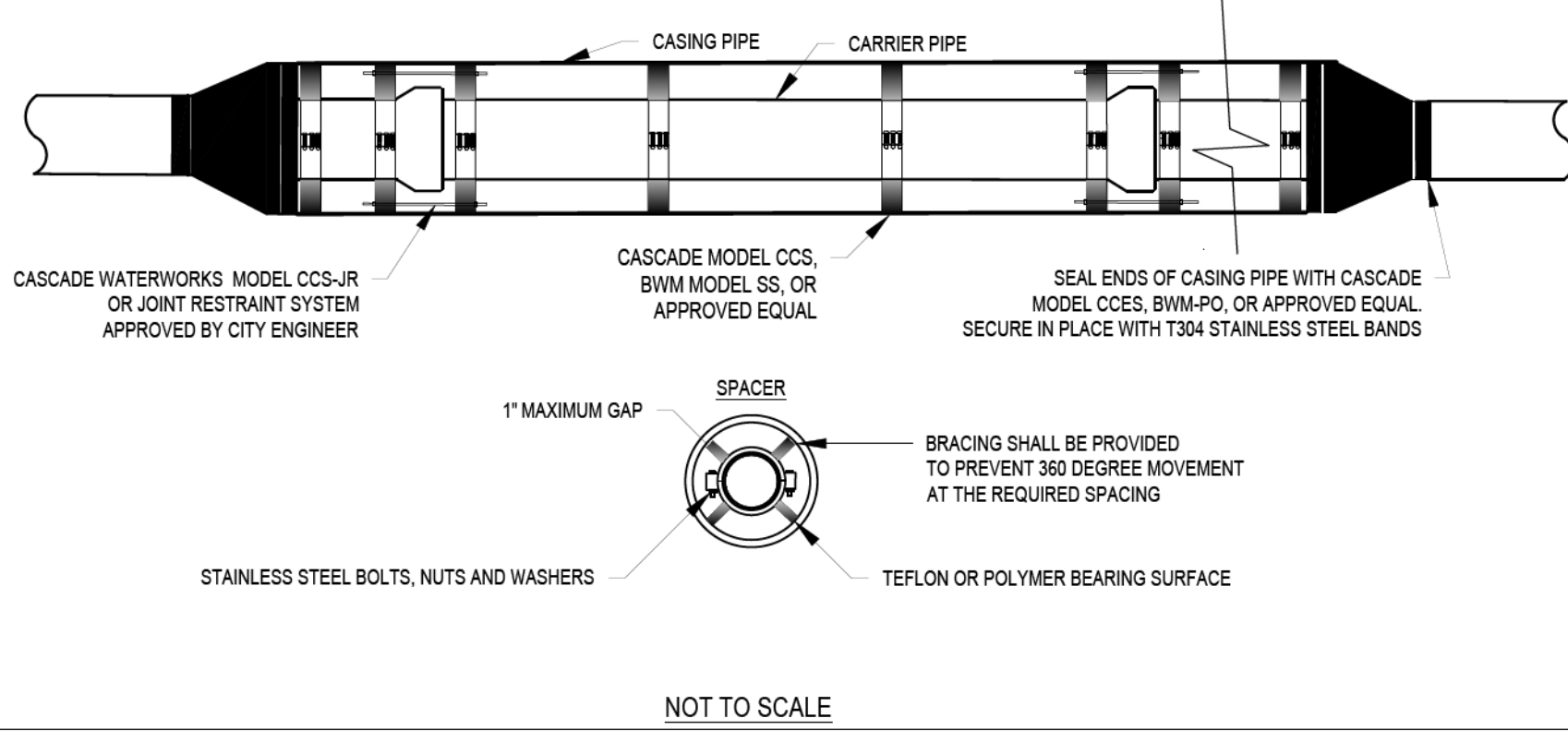
Drawing Name: **WATER VALVE JUMPER**

Drawing Number: **UW-05**  
Date: 06/01/2015  
Drawn: JH  
Checked: VR

City of Crystal Lake Illinois

- NOTES:
- CASING PIPE SHALL BE GRADE 8 STEEL WITH MINIMUM WALL THICKNESS 0.375". WALL THICKNESS FOR CASING PIPE GREATER THAN 36" SHALL BE APPROVED BY THE CITY ENGINEER.
- JOINTS SHALL BE CONTINUOUSLY WELDED.
- CASING PIPE WALLS SHALL BE COATED INSIDE AND OUTSIDE WITH ONE COAT SHOP PRIMER PAINT. THE EXTERNAL SURFACE SHALL BE TREATED WITH ONE COAT OF COAL TAR SEXY OR BITUMINOUS ASPHALT COATING.
- SPACERS SHALL BE INSTALLED WITHIN 2" OF THE END OF THE CASING PIPE.
- DO NOT INSTALL SPACERS OVER PIPE BELLS OR TAPERS.
- SPACERS SHALL BE INSTALLED IN A MANNER TO CENTER AND RESTRAIN THE CARRIER PIPE.
- SPACER MANUFACTURER SHALL BE CONSULTED TO DETERMINE SPACER WIDTH AND MAXIMUM SPACER INTERVALS DEPENDING ON CARRIER/CASING PIPE MATERIAL AND SIZE. THE MAXIMUM SPACING INTERVAL TABLE SHALL SERVE AS A GUIDELINE. SPACING SHALL BE APPROVED BY THE CITY ENGINEER.

MAXIMUM SPACER INTERVAL	
CARRIER PIPE MATERIAL <60" OD	MAXIMUM INTERVAL
STEEL/DUCTILE IRON	8'-0"
PLASTIC	6'-0"
CONCRETE	4'-0"



Revised: 1.  
2.  
3.  
4.

Drawing Name: **CASING PIPE**

Drawing Number: **UW-14**  
Date: 01-25-2021  
Drawn: KL  
Checked: PW

City of Crystal Lake Illinois

PROJECT NAME: \_\_\_\_\_  
CONTRACTOR: \_\_\_\_\_  
WITNESS: \_\_\_\_\_  
LINE PRESSURIZED: DATE: \_\_\_\_\_ TIME: \_\_\_\_\_ am / pm  
LINE TESTED: DATE: \_\_\_\_\_ TIME: \_\_\_\_\_ am / pm

LEAKAGE FORMULA  
L =  $\frac{SD\sqrt{P}}{148,000}$   
L = Testing (leakage) allowance (makeup water), in gallons per hour = \_\_\_\_\_ GPH  
S = Length of pipe tested in feet = \_\_\_\_\_ FEET  
D = Nominal diameter of the pipe, in inches = \_\_\_\_\_ INCHES  
P = Average test pressure during the hydrostatic test, in pounds per square inch (gauge) = \_\_\_\_\_ PSI  
\*If multiple diameters of water main are being tested, separate leakage (L) calculation shall be added together.

TESTING PROCEDURE

STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS (LATEST EDITION) AND AWWA STANDARD C800-17 SHALL APPLY ALONG WITH THE FOLLOWING:

- 1) PRETEST: THE CONTRACTOR SHALL PROVIDE A MAP OF THE FACILITIES (WATER MAINS, HYDRANTS, VALVES, ETC.) TO BE INCLUDED DURING THE TEST TO THE ENGINEER. THE ENGINEER WILL COORDINATE WITH THE WATER DEPARTMENT TO SCHEDULE OPENING OF CITY VALVES AND FILLING OF NEW WATER MAIN A MINIMUM OF 24 HOURS IN ADVANCE OF THE TEST. THE CONTRACTOR SHALL NOT OPERATE ANY VALVES ON EXISTING CITY WATER MAIN WITHOUT WRITTEN PERMISSION.
- 2) HYDROSTATIC PRESSURE TESTING: ALL TESTING EQUIPMENT AND LABOR NECESSARY TO SETUP AND RUN THE TEST SHALL BE PROVIDED BY THE CONTRACTOR AND SHALL INCLUDE:
  - A) PRESSURE GAUGE LOCATED AT HIGHEST POINT OF ELEVATION OF THE WATER MAIN
  - B) PUMP
  - C) TANK
  - D) FITTINGS FOR TESTING EQUIPMENT TO BE CONNECTED TO WATER MAIN
  - E) ACCURATE WATER VOLUME MEASURING DEVICE (CALIBRATED VOLUMETRIC METER OR 1 GALLON GRADUATED CYLINDER IN OUNCES)
- 3) AIR REMOVAL: AFTER FILLING THE WATERMAIN, AIR SHALL BE EXPELLED BY FLUSHING WATER OUT OF THE MAIN AT FIRE HYDRANTS OR CORPORATION STOPS LOCATED AT HIGH POINTS ALONG THE WATER MAIN.
- 4) PRESSURIZATION: AFTER ALL AIR HAS BEEN REMOVED, THE MAIN SHOULD BE PRESSURIZED TO MINIMUM 150 PSI BY PUMPING ADDITIONAL WATER INTO THE WATER MAIN.
- 5) TWO HOUR TEST: ONCE TESTING PRESSURE IS OBTAINED, THE PUMP SHOULD BE SHUT OFF AND TIMING STARTED. THE PRESSURE GAUGE SHOULD BE CHECKED INTERMITTENTLY AND THE PRESSURE READING RECORDED AFTER TWO HOURS. IF THE PRESSURE READING VARIES MORE THAN +/- 5 PSI FROM THE INITIAL PRESSURE, THE TEST FAILS. THE LEAK SHALL BE FOUND AND ADDRESSED PRIOR TO RETESTING.
- 6) MAKE UP VOLUME: IF THE PRESSURE IS MAINTAINED WITHIN +/- 5 PSI FOR THE TWO HOUR TEST, THE MAKE-UP VOLUME SHALL BE DETERMINED BY PUMPING WATER BACK INTO THE WATER MAIN TO REACH THE INITIAL TEST PRESSURE. THIS WILL NORMALLY BE DONE BY EXCEEDING THE TEST PRESSURE, AND USING THE BLEED OFF VALVE TO DROP THE PRESSURE TO THE INITIAL TEST PRESSURE. ONCE THE INITIAL TEST PRESSURE HAS BEEN REACHED, THE BLEED OFF VALVE SHALL BE OPENED AND WATER THAT LEAVES THE SYSTEM SHALL BE COLLECTED IN THE VOLUME MEASURING DEVICE. ONCE THE GAUGE REACHES THE FINAL TWO HOUR TEST PRESSURE, THE VOLUME OF WATER COLLECTED SHALL BE MEASURED.
- 7) ALLOWABLE MAKE-UP VOLUME: THE MEASURED VOLUME OF "MAKE UP" WATER SHALL BE COMPARED TO THE ALLOWABLE LEAKAGE. THE ALLOWABLE LEAKAGE SHALL BE CALCULATED BY THE ENGINEER USING THE FORMULA ABOVE. IF THE WATER COLLECTED IS LESS THAN THE ALLOWABLE MAKE UP VOLUME, THE TEST PASSES. IF THE WATER COLLECTED IS MORE THAN THE ALLOWABLE MAKE UP VOLUME, THE TEST FAILS. THE LEAK SHALL BE FOUND AND ADDRESSED PRIOR TO RETESTING.
- 8) FINAL VALVE CHECK: PRIOR TO BLEEDING OFF THE PRESSURE, ALL HYDRANTS ON THE TESTING MAP SHALL BE SLOWLY OPENED TO ENSURE THAT THEY HAD PRESSURE AGAINST THEM DURING TESTING. THE PRESSURE GAUGE SHOULD DROP AS THE HYDRANTS ARE OPENED ENSURING THAT ALL VALVES IN THE SYSTEM WERE PROPERLY OPENED/CLOSED DURING TESTING.
- 9) IF THE WATER MAIN HAS PASSED THE PRESSURE TEST, THE PRESSURE SHOULD BE REDUCED TO THE CITY'S SYSTEM PRESSURE. THE PRESSURE GAUGE SHALL REMAIN ON THE HIGHEST CORPORATION STOP AND MONITORED UNTIL THE IEPA PERMIT IS RECEIVED. THE PRESSURE SHALL NEVER GO BELOW 20 PSI AFTER A PASSED TEST. IF THE GAUGE FALLS BELOW 20 PSI, RETESTING AND/OR RECHLORINATING SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE CITY.

2-HOUR TEST

TOTAL ALLOWABLE LEAKAGE = L X 2 HOURS	_____ GALLONS	A
INITIAL TEST PRESSURE (MINIMUM 150 PSI)	_____ PSI	B
FINAL TEST PRESSURE	_____ PSI	C
PASS (B-C<5 PSI) OR FAIL (B-C>5 PSI)		
MAKE UP VOLUME	_____ GALLONS	D
PASS (A > D) OR FAIL (A < D)		E

NOTES, MAP, AND CALCULATIONS

INDICATE NORTH

Revised: 1. 06/12/2015  
2. 7/13/2021 - KL Leakage formula, procedure, delete 24 hour test  
3.  
4.

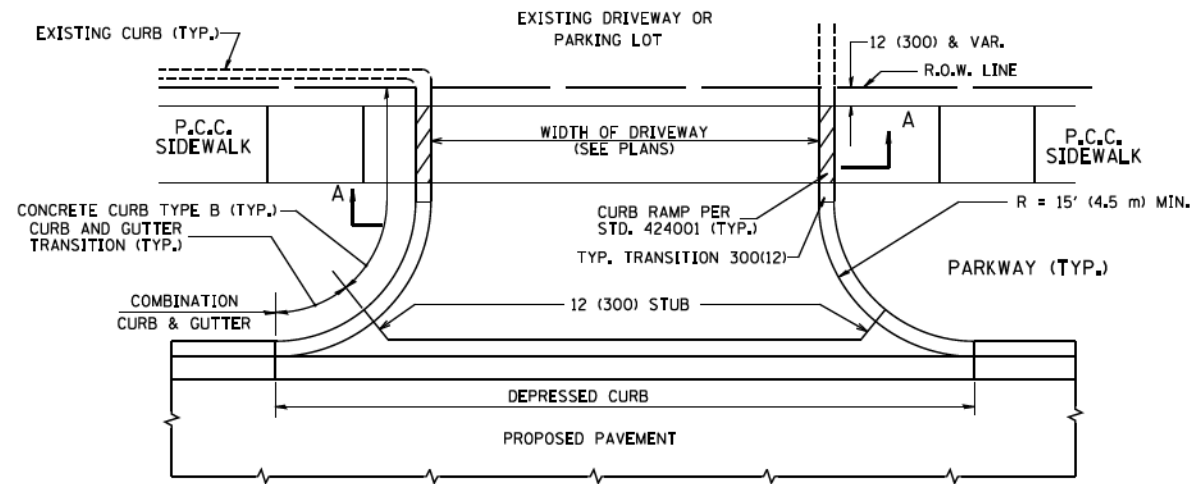
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Checked: VR

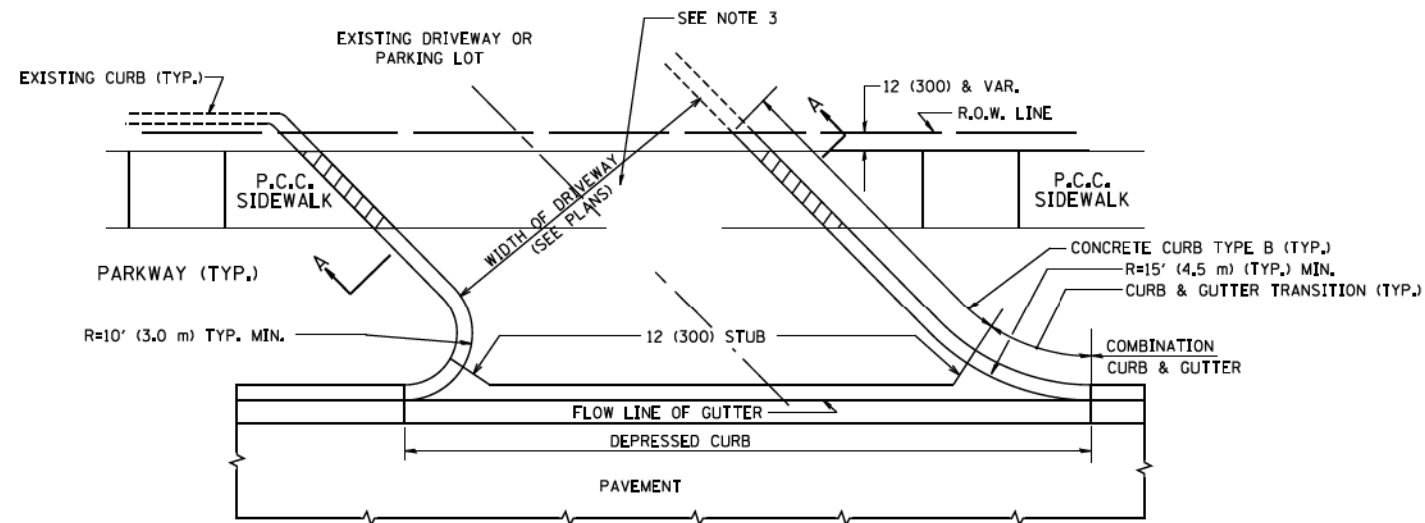
City of Crystal Lake Illinois

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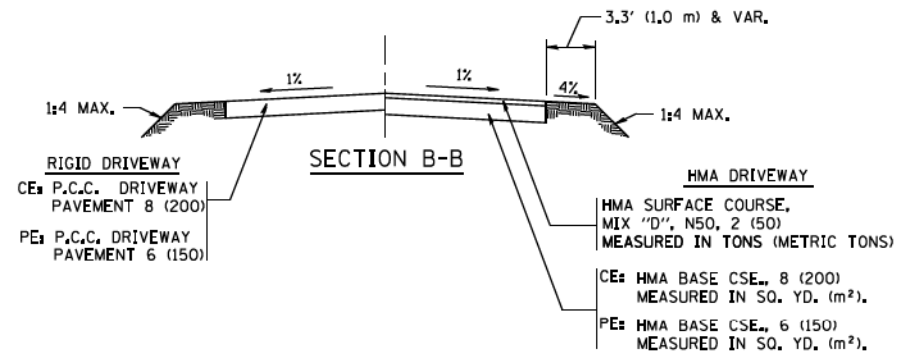
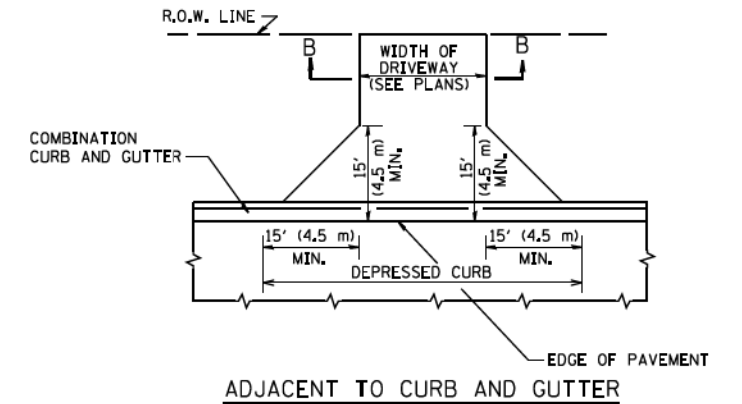
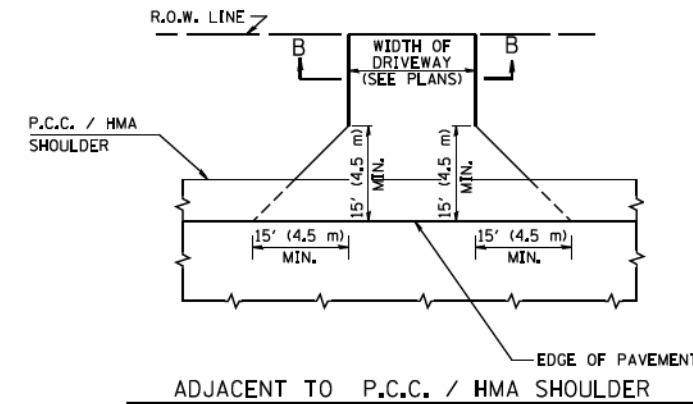
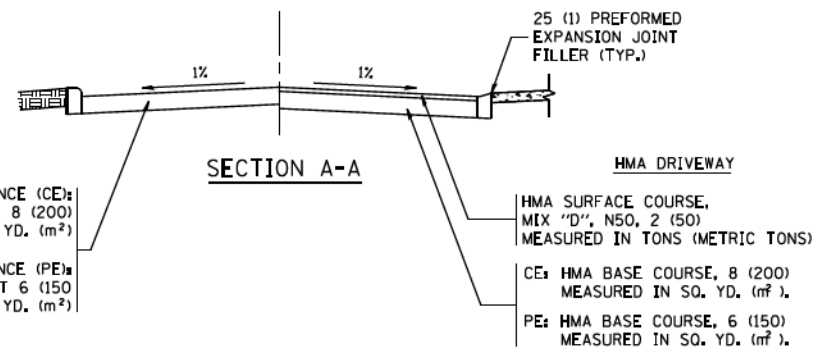
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		DATE - 08-26-2021	FILE - 181171_ss2-sht-WM_Dets.dgn



WITH CONCRETE CURB, TYPE B



WITH CONCRETE CURB, TYPE B



RURAL FIELD ENTRANCE (FE)

HMA SURFACE COURSE,  
MIX "D", N50, 2 (50)  
MEASURED IN TONS (METRIC TONS)

AGGREGATE BASE CSE., TYPE B, 8 (200)  
MEASURED IN SQ. YD. (m<sup>2</sup>).

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.

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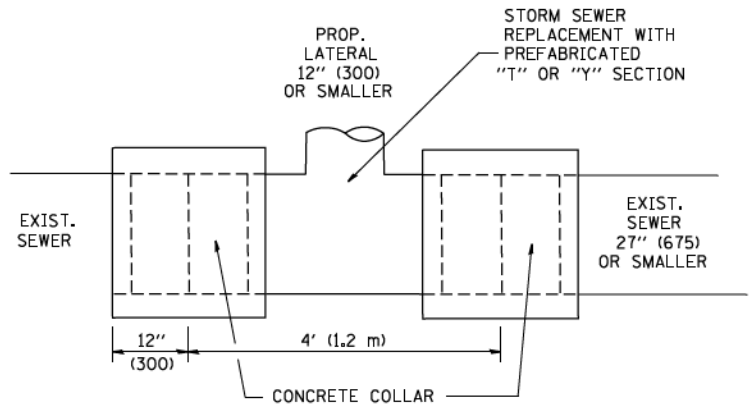
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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.

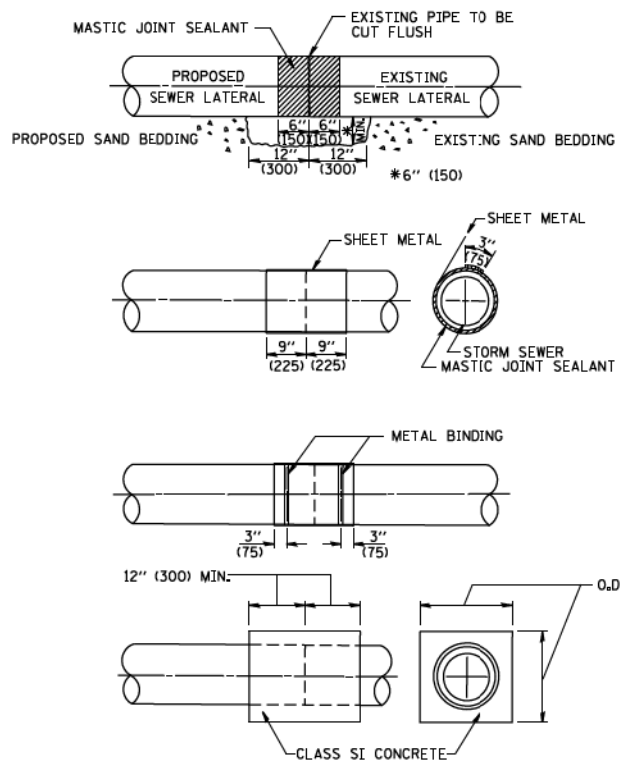
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BDD0156-07 (BD-01)		CONTRACT NO. 61H27		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				





**DETAIL "A"**

LATERAL CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER

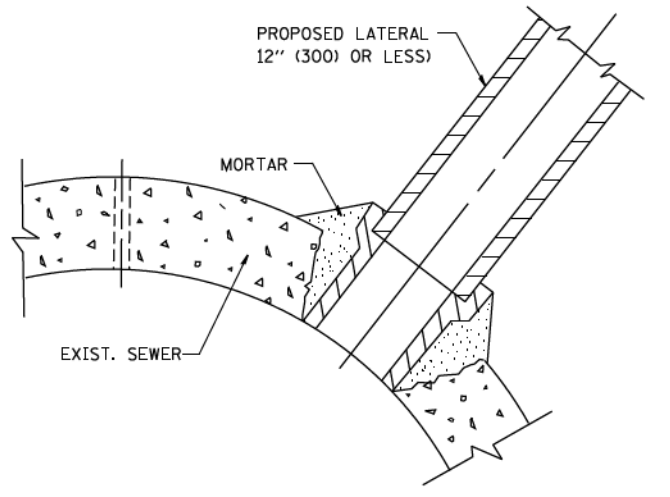


**DETAIL "B"**

CLASS SI CONCRETE COLLAR

**CONSTRUCTION SEQUENCE**

1. CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
2. APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" (150) OF EACH PIPE.
3. BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12" x 6" (300 x 150) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
4. CUT A PIECE OF SHEET METAL GAGE NO. 19 L1 (0.0418) 18" (450) WIDE BY THE OUTSIDE CIRCUMFERENCE OF THE PIPE PLUS 3" (75) LONG.
5. WRAP THE SHEET METAL AROUND THE PIPES, 9" (225) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
6. LAP THE SHEET METAL AT LEAST 3" (75) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.
7. PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
8. WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OOOZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
9. PLACE CLASS SI CONCRETE AROUND THE JOINT.



**DETAIL "C"**

PROPOSED LATERAL CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER

**NOTES**

**MATERIAL**

MATERIAL USED FOR THE TEE OR WYE SECTION SHALL BE COMPATIBLE WITH THE EXISTING STORM SEWER OR THE PROPOSED STORM SEWER.

**CONSTRUCTION METHODS**

- I. THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.
  - II. CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:
    - A) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "B".
    - B) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".
- IF THE EXISTING SEWER PIPE IS CRACKED, BROKEN OR OTHERWISE DAMAGED BY THE CONTRACTOR IN MAKING THE CIRCULAR OPENING, THE CONTRACTOR SHALL REPLACE THAT SECTION OF PIPE WITH PIPE EQUAL AND SIMILAR IN ALL RESPECTS TO THE PIPE IN THE EXISTING SEWER, IN A CAREFUL WORKMANLIKE MANNER, WITHOUT EXTRA COMPENSATION.

**GENERAL**

- CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.
- CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

**BASIS OF PAYMENT**

TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS. THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REQUIRED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.

REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.

TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.

CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

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

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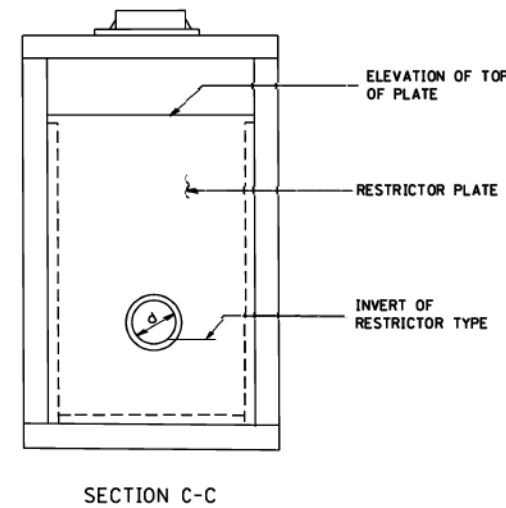
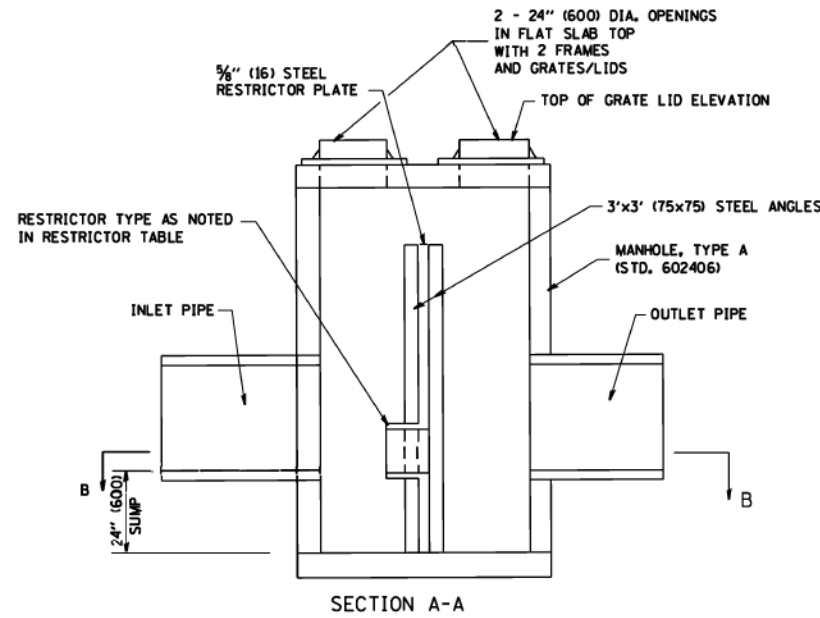
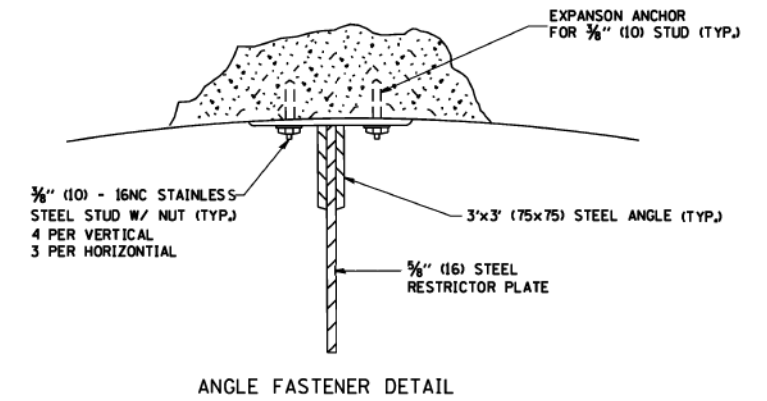
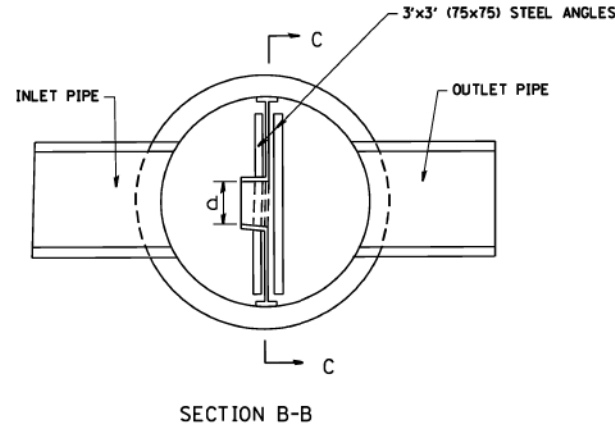
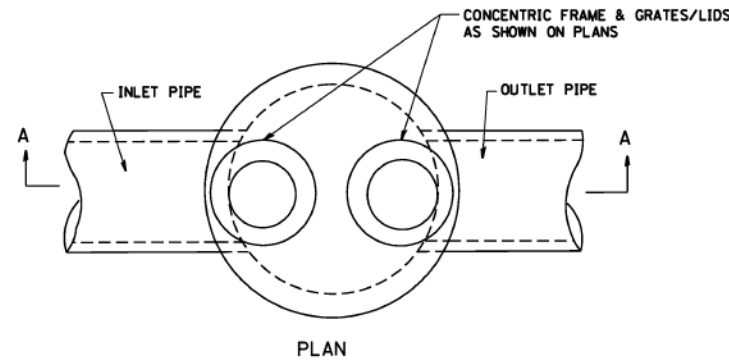
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

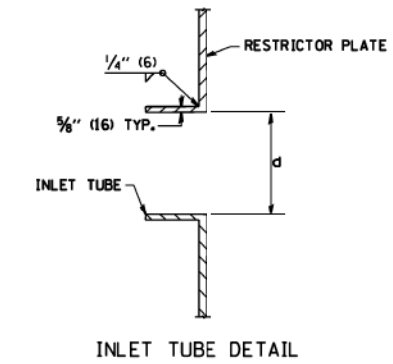
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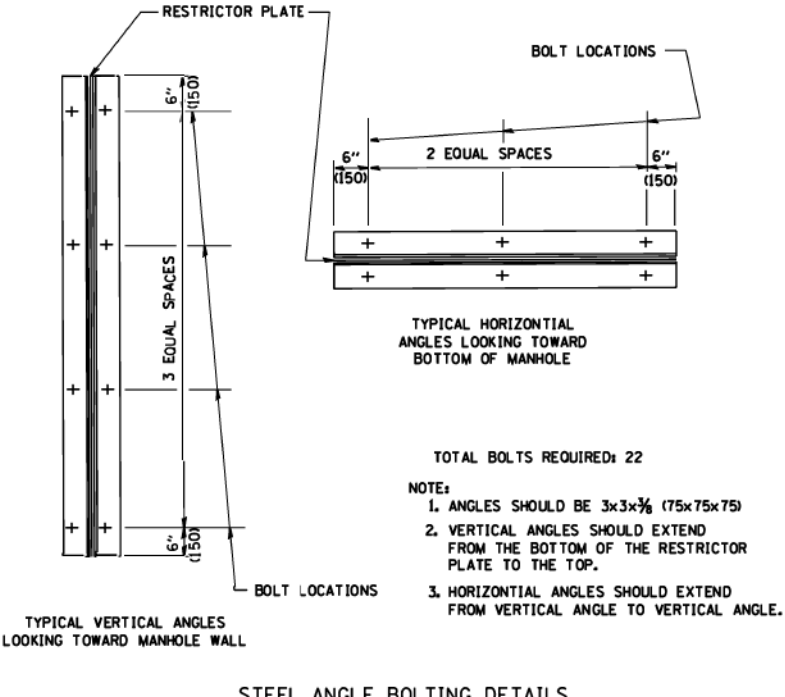




- NOTES:
1. ALL STEEL ANGLES AND PLATES TO BE GALVANIZED AFTER FABRICATION.
  2. ALL RESTRICTOR PLATES, ANGLES AND HARDWARE TO BE INCLUDED IN THE COST OF THE MANHOLE.
  3. BASIS OF PAYMENT: "MANHOLES, TYPE A, 6 FT. (1.8 m)-DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE" EACH



STATION	MANHOLE DIAMETER	FRAME AND GRATE	RESTRICTOR TYPE	INSIDE RESTRICTOR TYPE DIAMETER In. (mm) (d)	INVERT OF RESTRICTOR TYPE	ELEVATION OF TOP OF PLATE OVERFLOW
S3-5	13+90 ; 29.6'RT	6 foot	Type 1, Closed Lid	2	12.5	891.60
						895.60



RESTRICTOR TYPE					
1	2	3	4	5	6
RE-ENTRANT TUBE	SHARP EDGED	SQUARE EDGED	RE-ENTRANT TUBE	SQUARE EDGED	ROUNDED
LENGTH: 1/2 TO 1 DIA.		STREAM CLEARS SIDES	LENGTH: 2-1/2 DIA.	LENGTH: 2-1/2 DIA.	
C=.52	C=.61	C=.61	C=.73	C=.82	C=.98

VALUES OF "C" FOR CIRCULAR AND SQUARE ORIFICES

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

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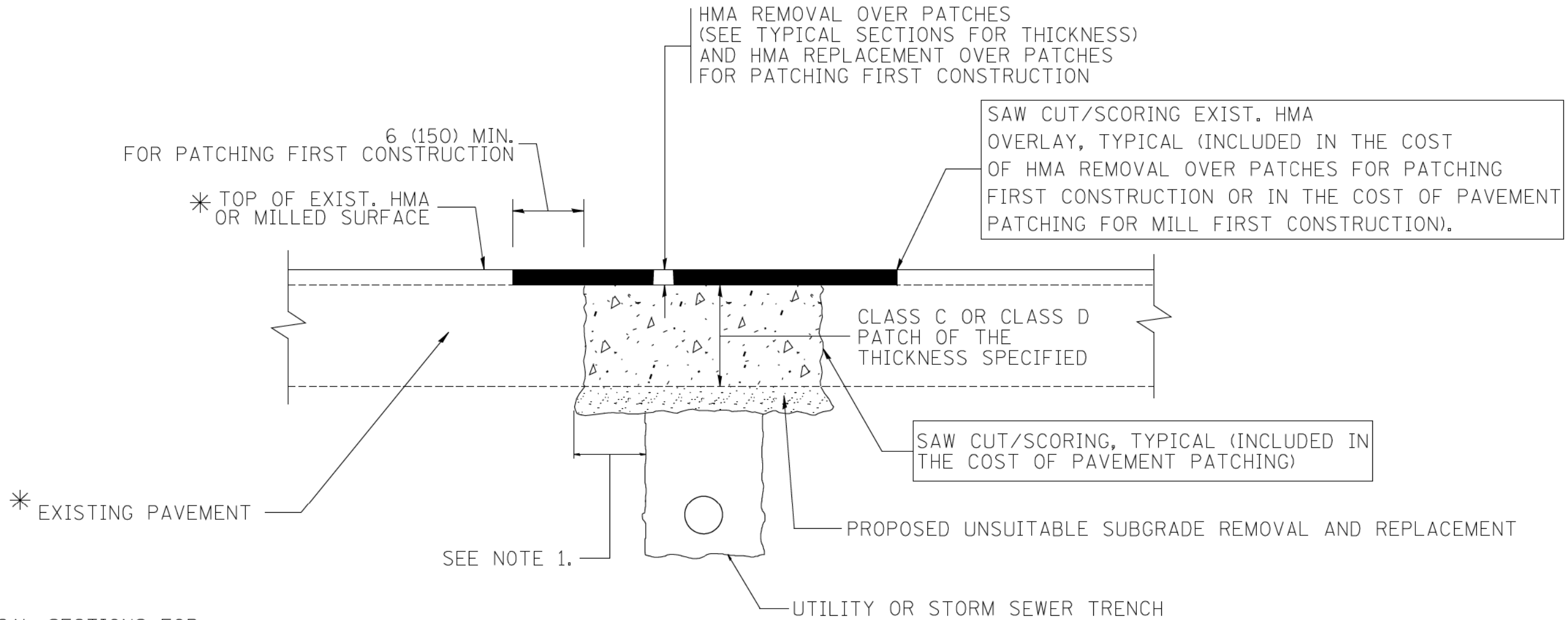
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	PLOT DATE = 1/4/2008	DATE - 09-09-94	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

MANHOLE WITH  
RESTRICTOR PLATE

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
124	15-00124-00-PV	MCHEMRY	121	99
BD600-04 (BD-12)		CONTRACT NO. 61H27		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



\* 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.

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM: PROJECT: 15-00124-00-PV; SHEET: 121 OF 100; DATE: 10/27/2008; FILE NAME: ca\projects\dstsd22x34\bd22.dgn

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		CHECKED -	REVISED - R. BORO 09-04-07
		DATE - 10-25-94	REVISED - K. ENG 10-27-08

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT PATCHING FOR  
HMA SURFACED PAVEMENT**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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BD400-04 (BD-22)			CONTRACT NO. 61H27	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

VARIABLE - TO MEET EXISTING DIMENSIONS AND FIELD CONDITIONS (SEE NOTE ②)

PROP. CONC. CURB OR CURB AND GUTTER REPLACEMENT IN ACCORDANCE WITH STATE STANDARD 606001. (SEE NOTE ②)

SAW CUT FULL DEPTH - INCLUDED IN THE COST OF SIDEWALK, DRIVEWAY OR MEDIAN SURFACE REMOVAL PAY ITEM.

SEE STATE STANDARD 606001  
EXISTING OR PROPOSED HMA SURFACE (IF APPLICABLE)

1/4" (5) \*\*

18" (450) MAX.

EXISTING SIDEWALK, DRIVEWAY, MEDIAN SURFACE, SOD OR GROUND.

PROPOSED SIDEWALK, DRIVEWAY PAVEMENT, MEDIAN SURFACE OR SODDING SALT TOLERANT WITH TOP SOIL, 4" (100) SOD RESTORATION (SEE NOTE ①).

EXISTING CONCRETE PAVEMENT, CONCRETE BASE COURSE OR FLEXIBLE PAVEMENT

T/2 \*

SUITABLE BACKFILL MATERIAL (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT)

3" (75) MIN.

PROPOSED 3/4" (20) PREFORMED EXPANSION JOINT AT CONCRETE SIDEWALKS, DRIVEWAYS, AND MEDIANS. (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.)

\* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.

\*\* IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

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

SODDING, SALT TOLERANT AND TOP SOIL, FURNISH AND PLACE 4" WILL BE PAID FOR SEPARATELY,

② FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED

③ CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.

④ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.

⑤ LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑥ THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑦ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.

⑧ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

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

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

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

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

**BASIS OF PAYMENT:**

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

# CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

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DRAWN -  
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PLOT DATE = 12/15/2009  
REVISIONS:  
REVISED - R. SHAH 10-03-96  
REVISED - A. ABBAS 03-21-97  
REVISED - M. GOMEZ 01-22-01  
REVISED - R. BORO 12-15-09

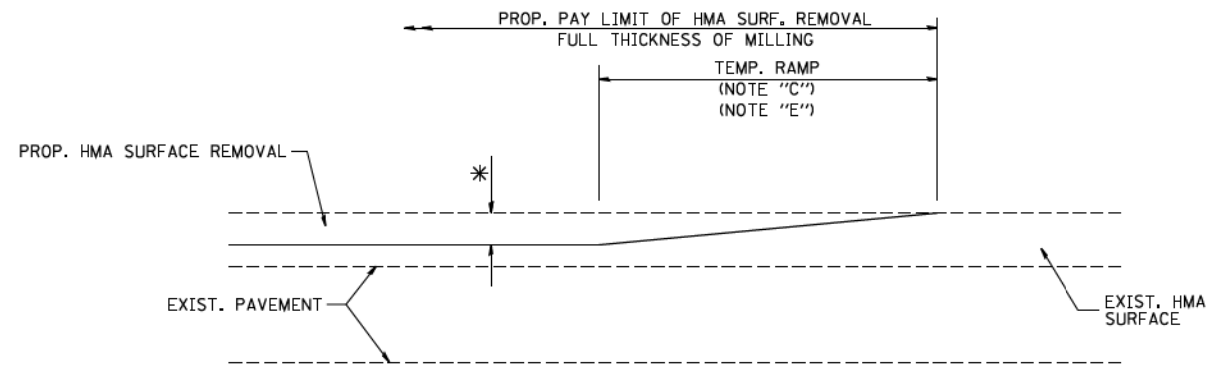
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CURB OR CURB AND GUTTER  
REMOVAL AND REPLACEMENT**

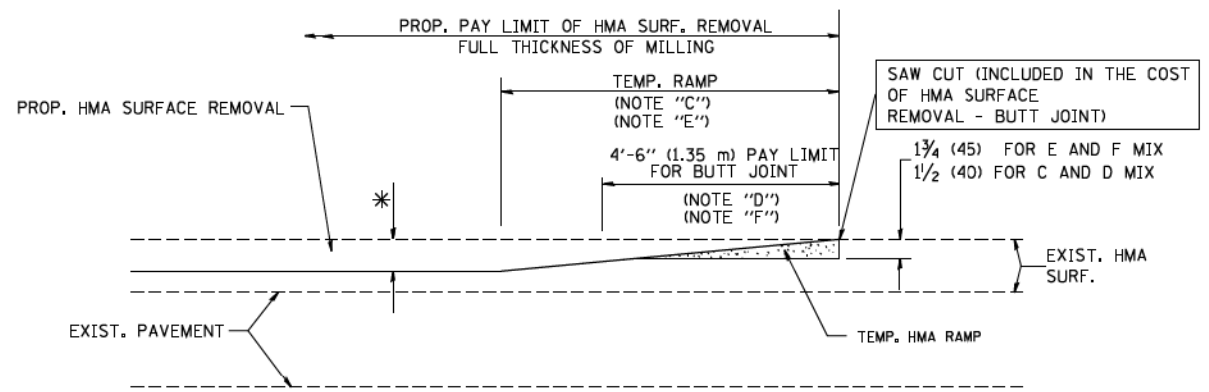
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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<b>BD600-06 (BD-24)</b>		CONTRACT NO. 61H27		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



MILLED TEMPORARY RAMP  
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

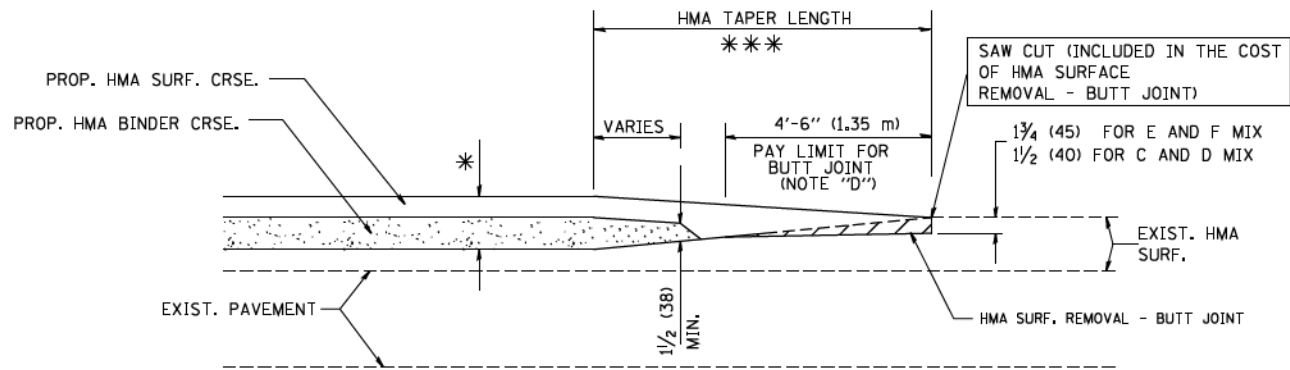
**OPTION 1**



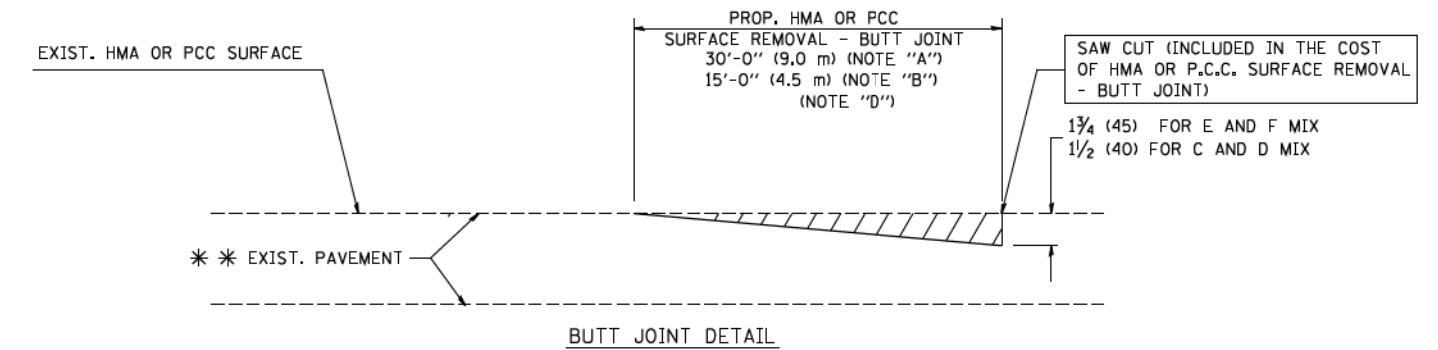
HMA CONSTRUCTED TEMPORARY RAMP  
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

**OPTION 2**

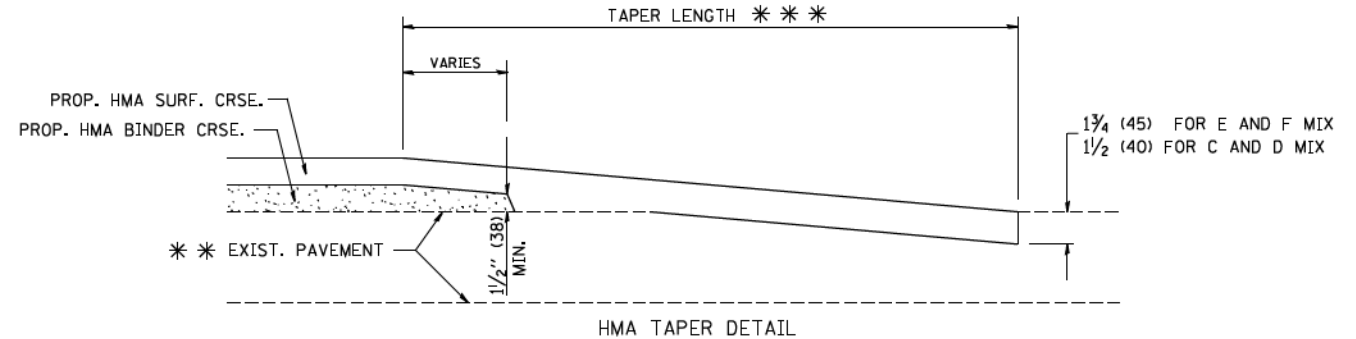
**TYPICAL TEMPORARY RAMP**



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



BUTT JOINT DETAIL



HMA TAPER DETAIL

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

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

**NOTES**

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

**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.

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM: P:\proj\10-11-00\10-11-00-01\10-11-00-01.dgn

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	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED - M. GOMEZ 04-06-01
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

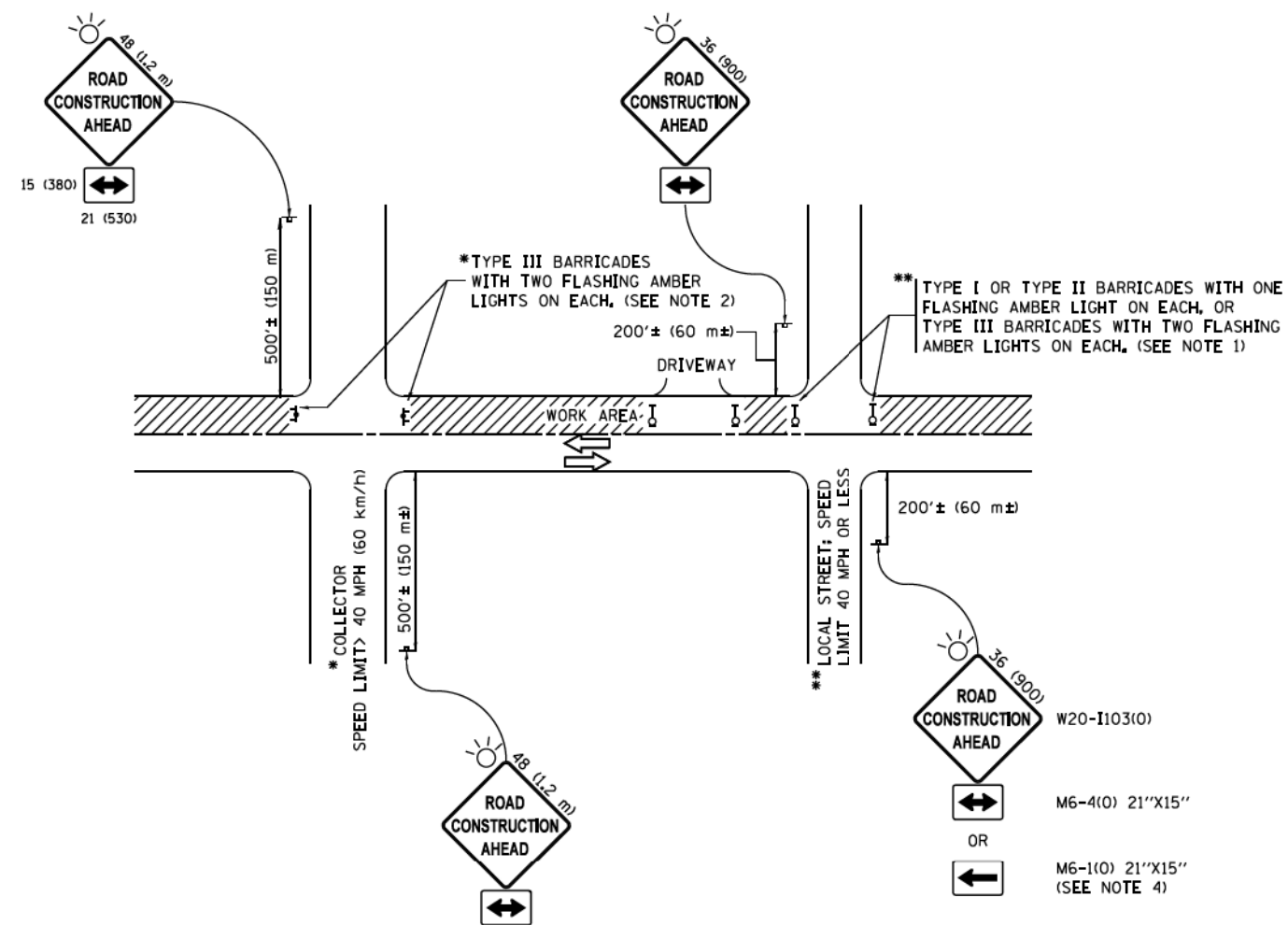
**BUTT JOINT AND  
HMA TAPER DETAILS**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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**NOTES:**

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
  - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
  - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. 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.
4. 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).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

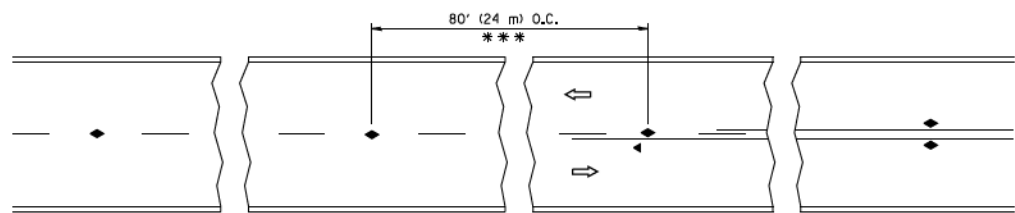
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Default	PLOT DATE = 9/15/2016	DATE = 06-89	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

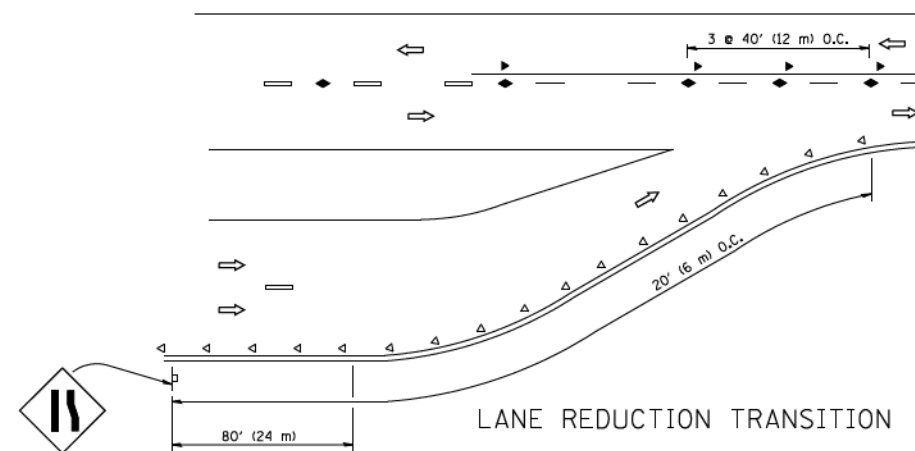
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ILLINOIS FED. AID PROJECT				

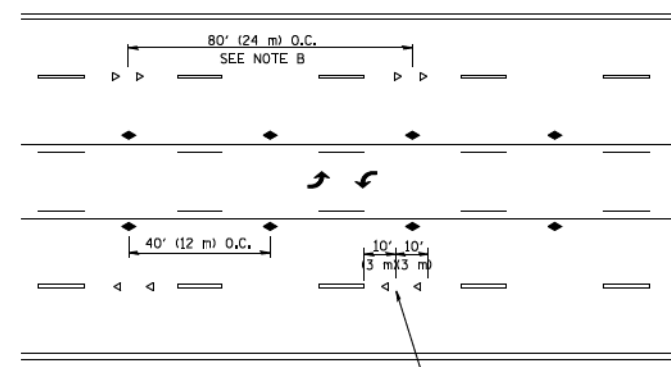


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

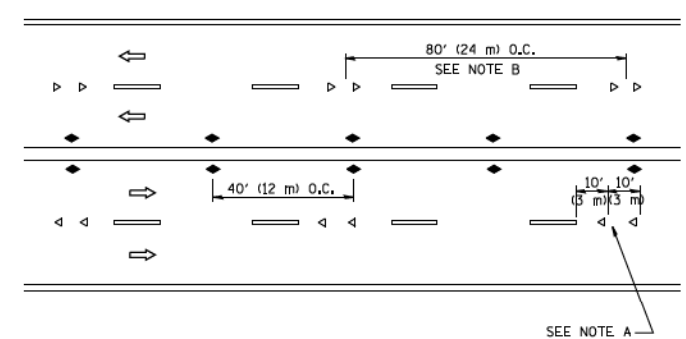
TWO-LANE/TWO-WAY



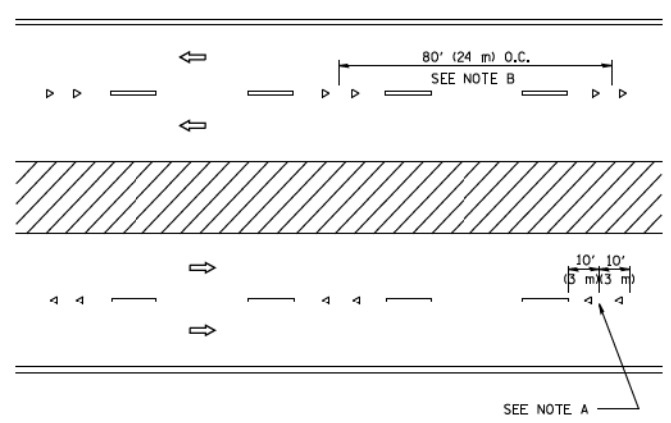
LANE REDUCTION TRANSITION



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

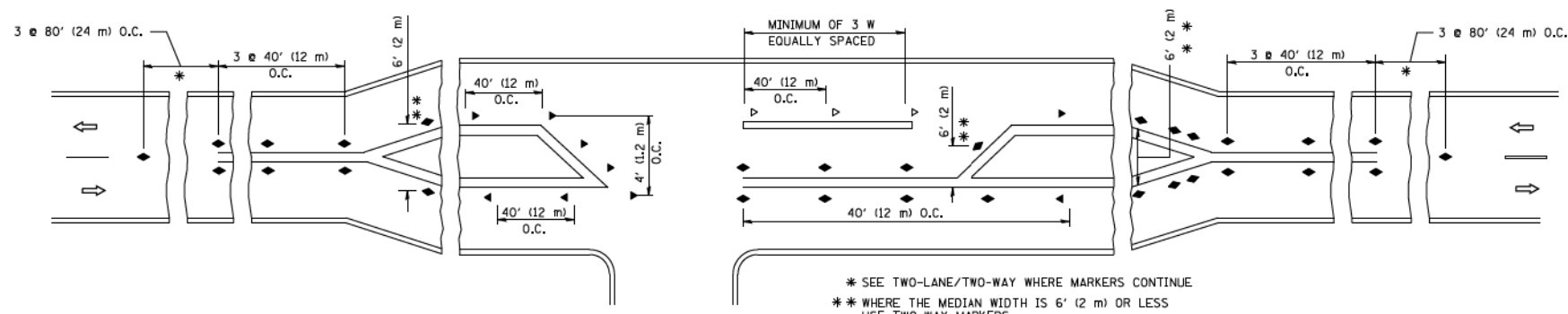
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

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.

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM: POTR-V-047-BY-DeFour.pdf  
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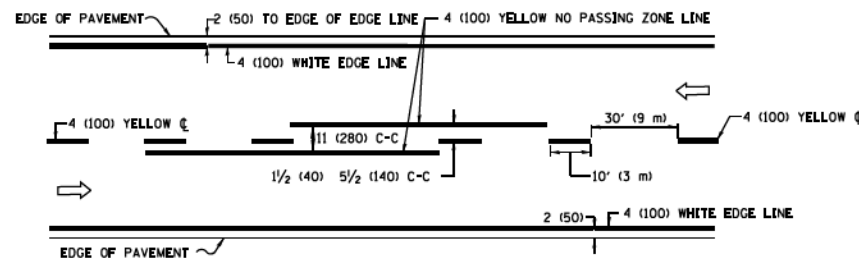
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATIONS	
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

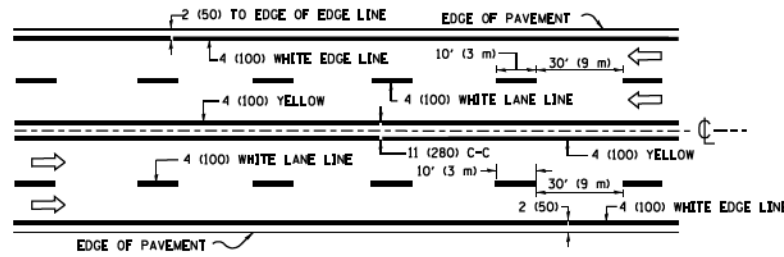
All dimensions are in inches (millimeters) unless otherwise shown.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-11		CONTRACT NO. 61H27		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

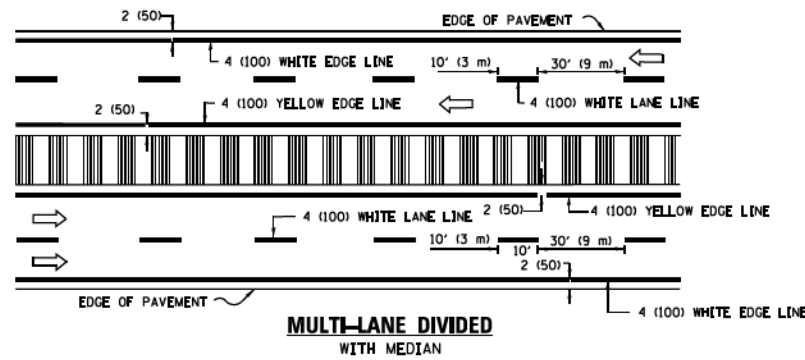




**2-LANE ROADWAY**

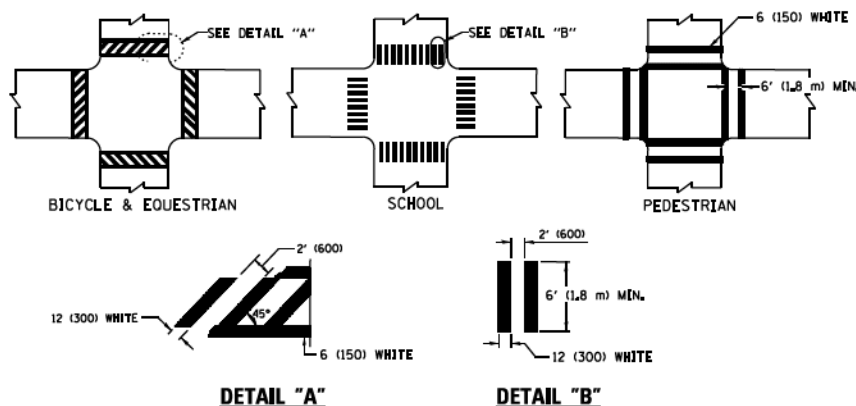


**MULTI-LANE UNDIVIDED**



**MULTI-LANE DIVIDED WITH MEDIAN**

**TYPICAL LANE AND EDGE LINE MARKING**

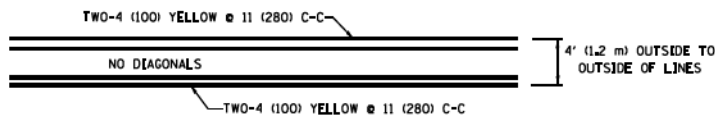


**DETAIL "A"**

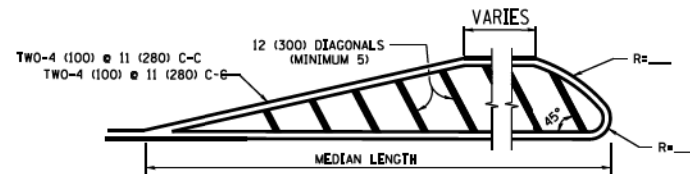
**DETAIL "B"**

**TYPICAL CROSSWALK MARKING**

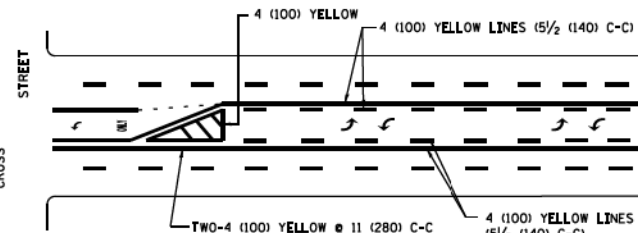
\* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



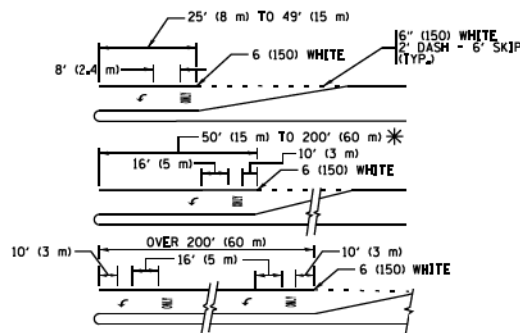
**4' (1.2 m) WIDE MEDIANS ONLY**



**MEDIANS OVER 4' (1.2 m) WIDE**



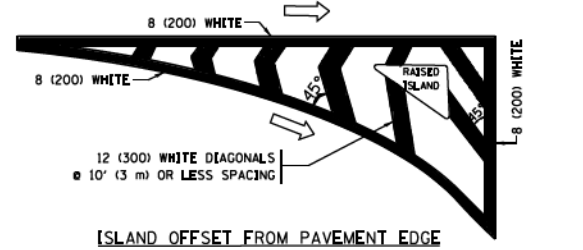
**MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING**



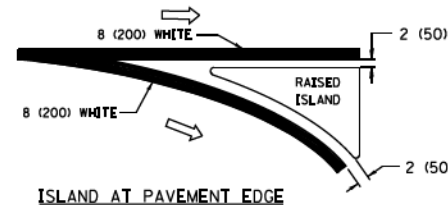
**TYPICAL LEFT (OR RIGHT) TURN LANE**

**TYPICAL TURN LANE MARKING**

FULL SIZE LETTERS 8" (2.4 m) AND ARROWS SHALL BE USED. AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)  
 \* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

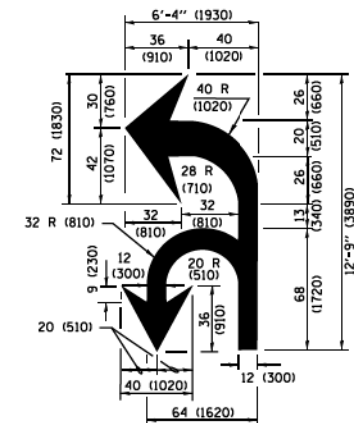


**ISLAND OFFSET FROM PAVEMENT EDGE**

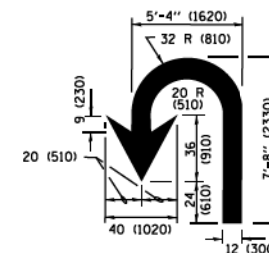


**ISLAND AT PAVEMENT EDGE**

**TYPICAL ISLAND MARKING**



**COMBINATION LEFT AND U-TURN**



**U-TURN**

**LANE REDUCTION TRANSITION**

\* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8" (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK. IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE.
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW WHITE	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
CORE 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 (30 MPH (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" TS 6' (1.8 m) LETTERS: 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF "X" = 3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH "X" = 54.0 SQ. FT. (5.0 m <sup>2</sup> )
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	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))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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.

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 DRAWN -  
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 PLOT SCALE = 50.000' / in.  
 CHECKED -  
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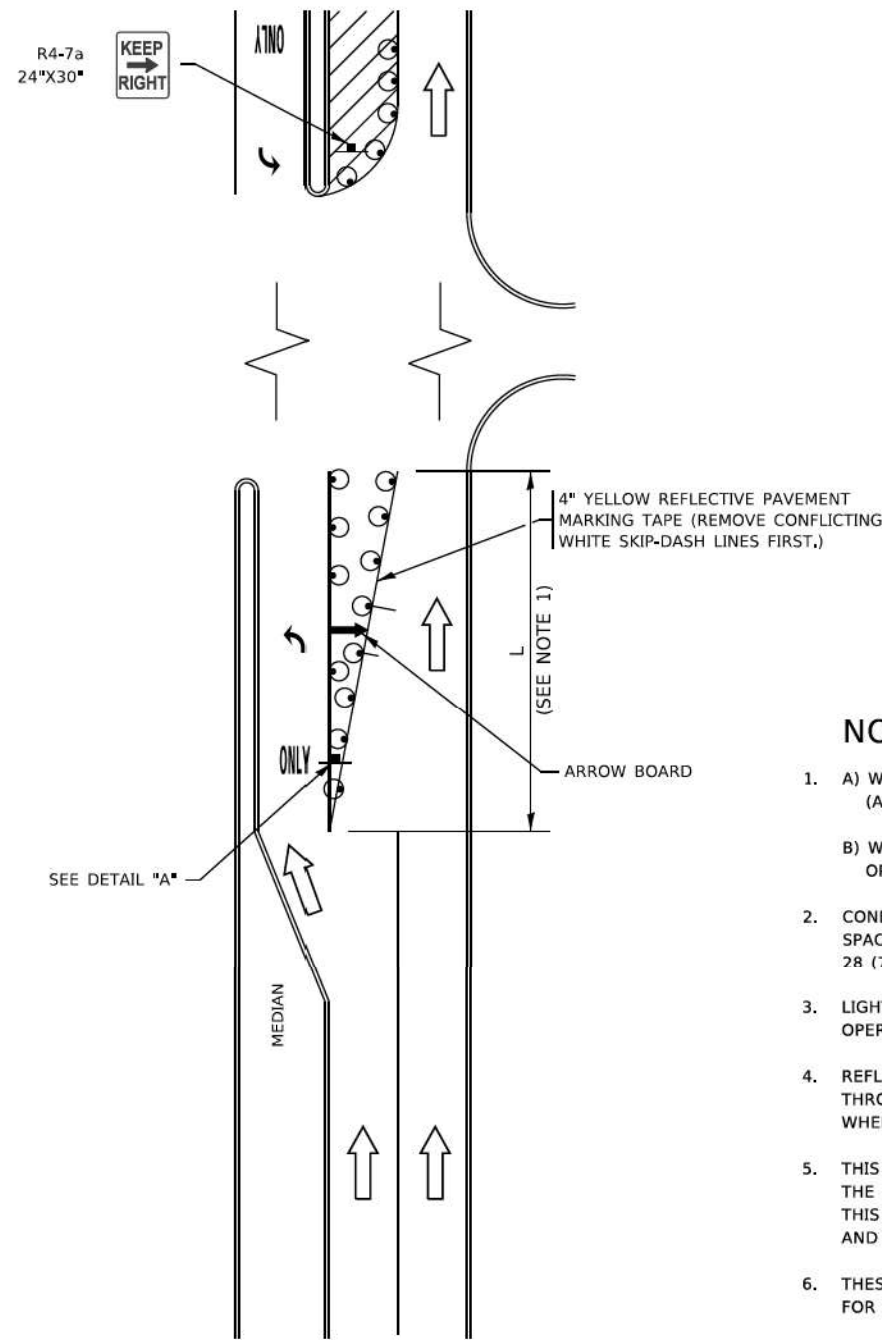
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE  
TYPICAL PAVEMENT MARKINGS**

SCALE: NONE	SHEET 1 OF 1 SHEETS	STA. TO STA.	F.A. RTE. 124	SECTION 15-00124-00-PV	COUNTY MCHENRY	TOTAL SHEETS 121	SHEET NO. 106
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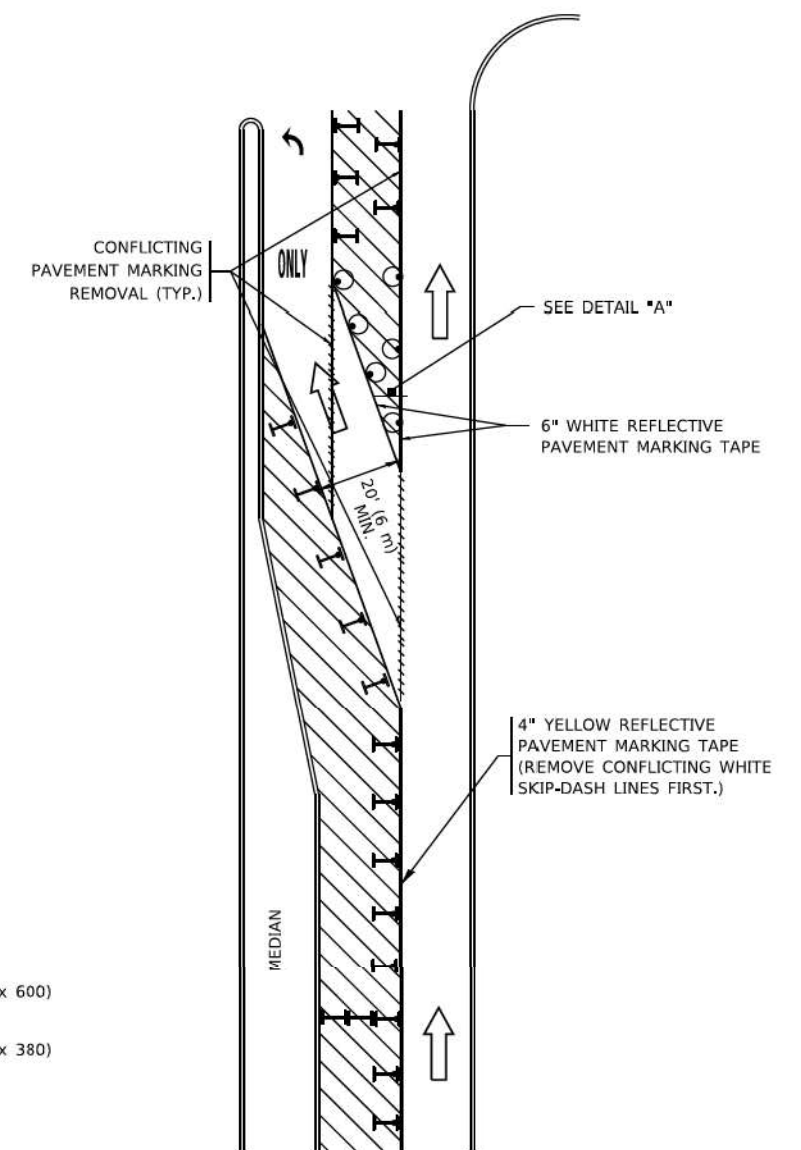
TC-13 CONTRACT NO. 61H27 ILLINOIS FED. AID PROJECT

# TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER



**FIGURE 1**

# TURN BAY ENTRANCE WITHIN A LANE CLOSURE



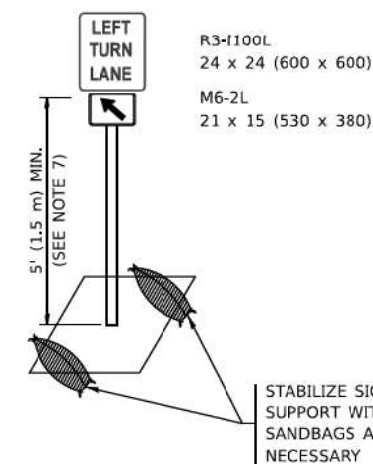
**FIGURE 2**

### LEGEND

- WORK AREA
- LANE OPEN TO TRAFFIC
- ARROW BOARD
- TYPE I OR II BARRICADE OR DRUM WITH STEADY BURN LIGHT
- DRUM WITH STEADY BURN LIGHT
- SIGN ASSEMBLY
- TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

### NOTES:

1. A) WHEN "L" IS ≤ THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
- B) WHEN "L" IS > THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
2. 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.
3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
5. 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" R3-1100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH REQUIREMENTS.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.



**DETAIL A**

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

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 PROJECT: ILLINOIS STATE ROAD 124 - PAVEMENT RECONSTRUCTION  
 FILE NUMBER: 15-00124-00-PV

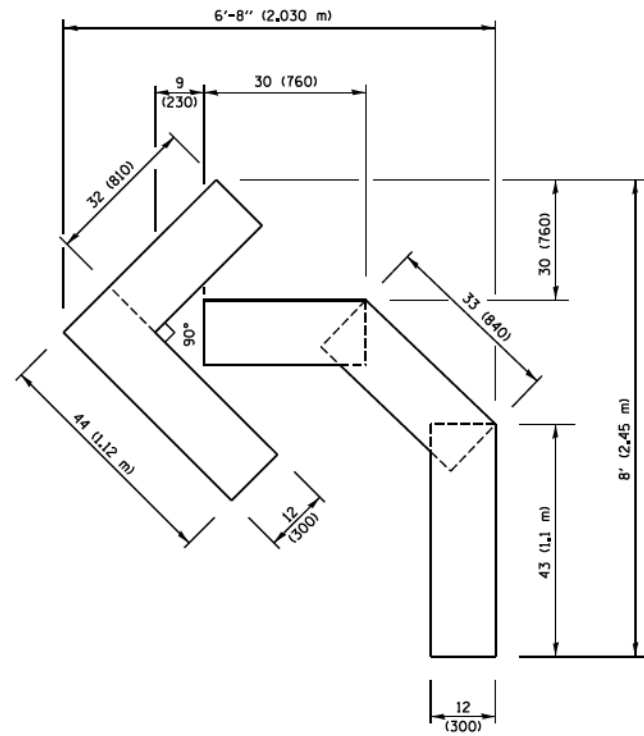
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	DRAWN - A. HOUSEH 11-07-95	REVISED - A. SCHUETZE 07-01-13
PLOT SCALE = 50,0000' / 1"	CHECKED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16
PLOT DATE = 3/4/2019	DATE - T. RAMMACHER 01-06-00	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

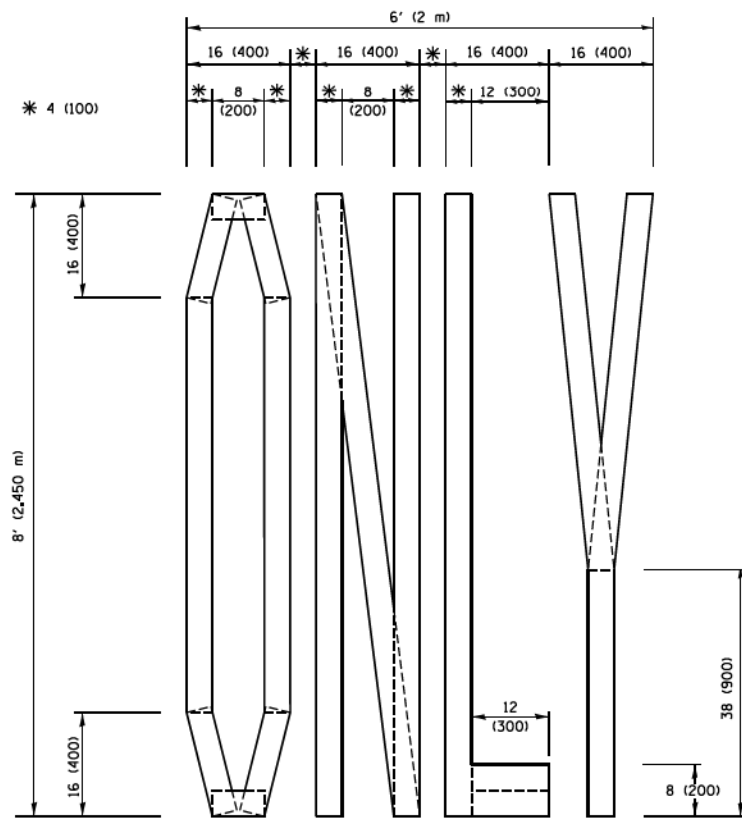
**TRAFFIC CONTROL AND PROTECTION AT TURN BAYS  
(TO REMAIN OPEN TO TRAFFIC)**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

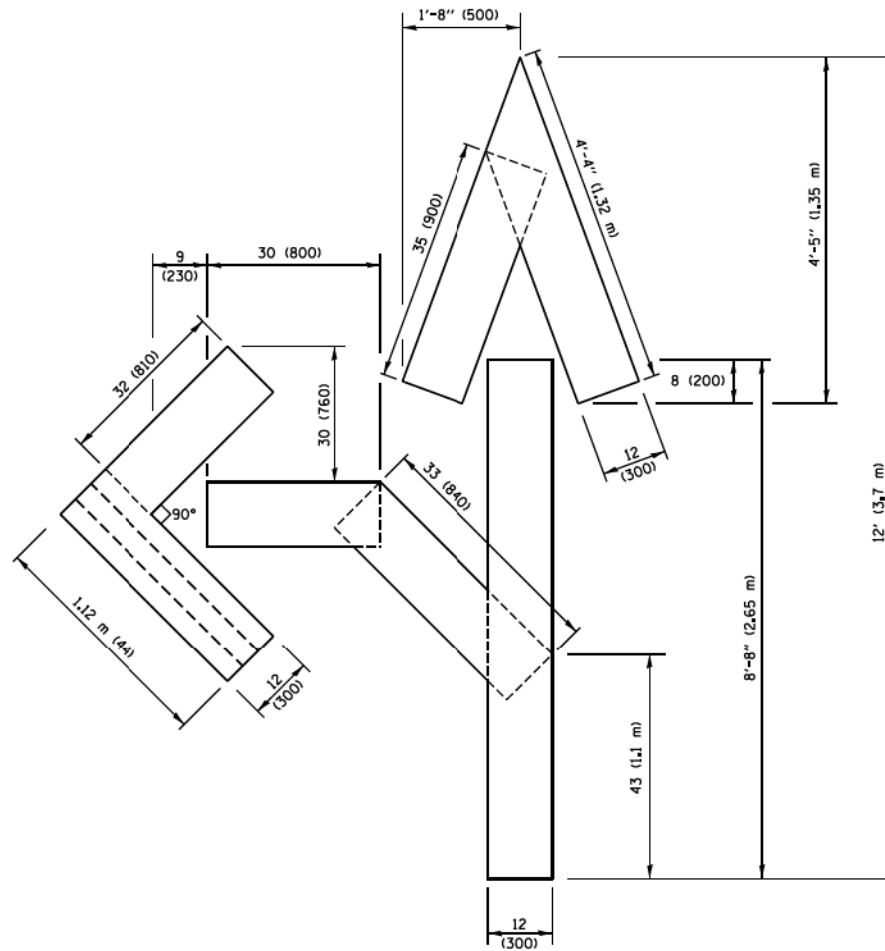
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
124	15-00124-00-PV	McHENRY	121	106A
TC-14		CONTRACT NO. 61H27		
ILLINOIS FED. AID PROJECT				



**QUANTITY**  
 4 (100) LINE = 45.5 ft. (13.9 m)  
 15.2 sq. ft. (1.41 sq. m)

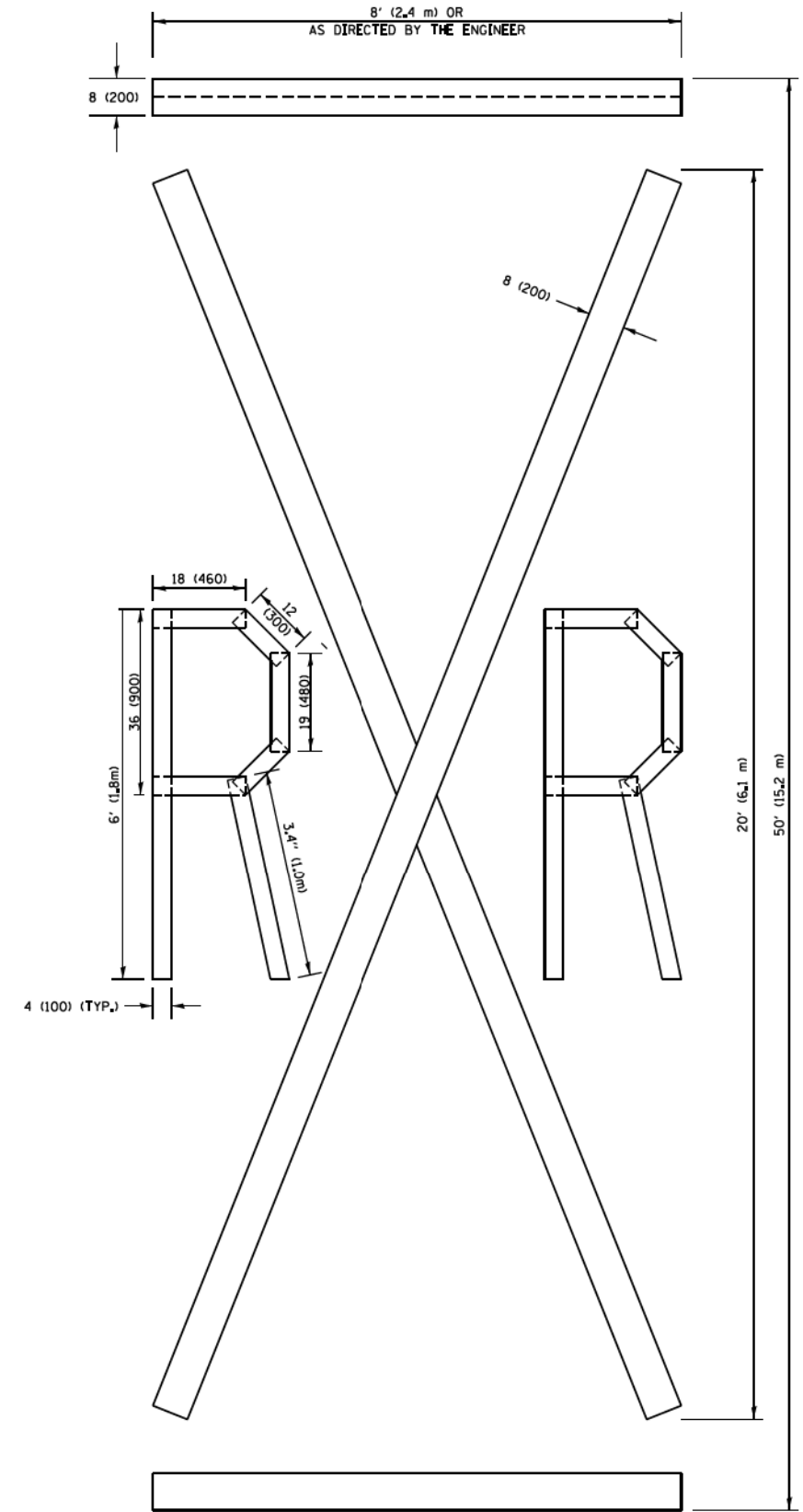


**QUANTITY**  
 4 (100) LINE = 64.1 ft. (19.5 m)  
 21.4 sq. ft. (1.99 sq. m)



**QUANTITY**  
 4 (100) LINE = 82.5 ft. (25.1 m)  
 27.5 sq. ft. (2.53 sq. m)

**NOTE:**  
 ALL QUANTITIES OF PLACEMENT ARE REPRESENTED  
 IN LINEAR FEET OF 4" LINES TO MATCH THE  
 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS  
 THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



**QUANTITY**  
 4 (100) LINE = 225.9 ft. (68.9 m)  
 75.3 sq. ft. (6.99 sq. m)

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

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 DATE: 9/15/2016

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			REVISED -E. GOMEZ 08-28-00
		CHECKED -	REVISED -E. GOMEZ 08-28-00
		DATE - 09-18-94	REVISED -A. SCHUETZE 09-15-16

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTE. 124	SECTION 15-00124-00-PV	COUNTY McHENRY	TOTAL SHEETS 121	SHEET NO. 107
TC-16		CONTRACT NO. 61H27		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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**ROUTE MARKERS**

FOR U.S. ROUTES  
M1-40-2424

FOR ILLINOIS ROUTES  
M1-50-2424

R.R., UNMARKED ROUTES  
SPECIAL 24" x 18" VARIABLE  
4" BLACK LETTERS ON WHITE  
REFLECTIVE BACKGROUND

**ARROWS SIGNS**

M5-1L-2115

M5-1R-2115

M6-1-2115

M6-2-2115

M6-3-2115

**CARDINAL DIRECTION & DETOUR SIGNS**

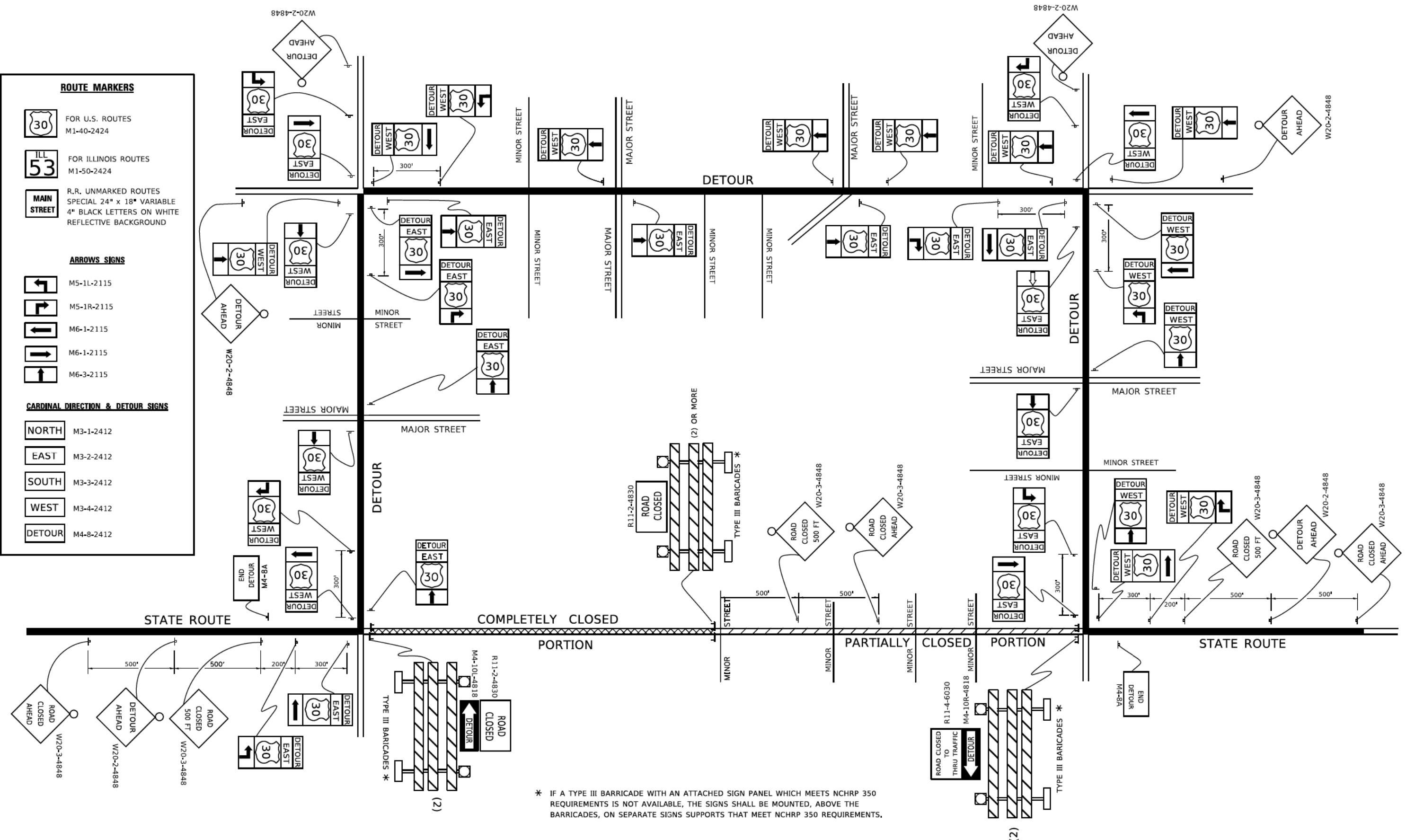
NORTH M3-1-2412

EAST M3-2-2412

SOUTH M3-3-2412

WEST M3-4-2412

DETOUR M4-8-2412



\* IF A TYPE III 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 NCHRP 350 REQUIREMENTS.

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

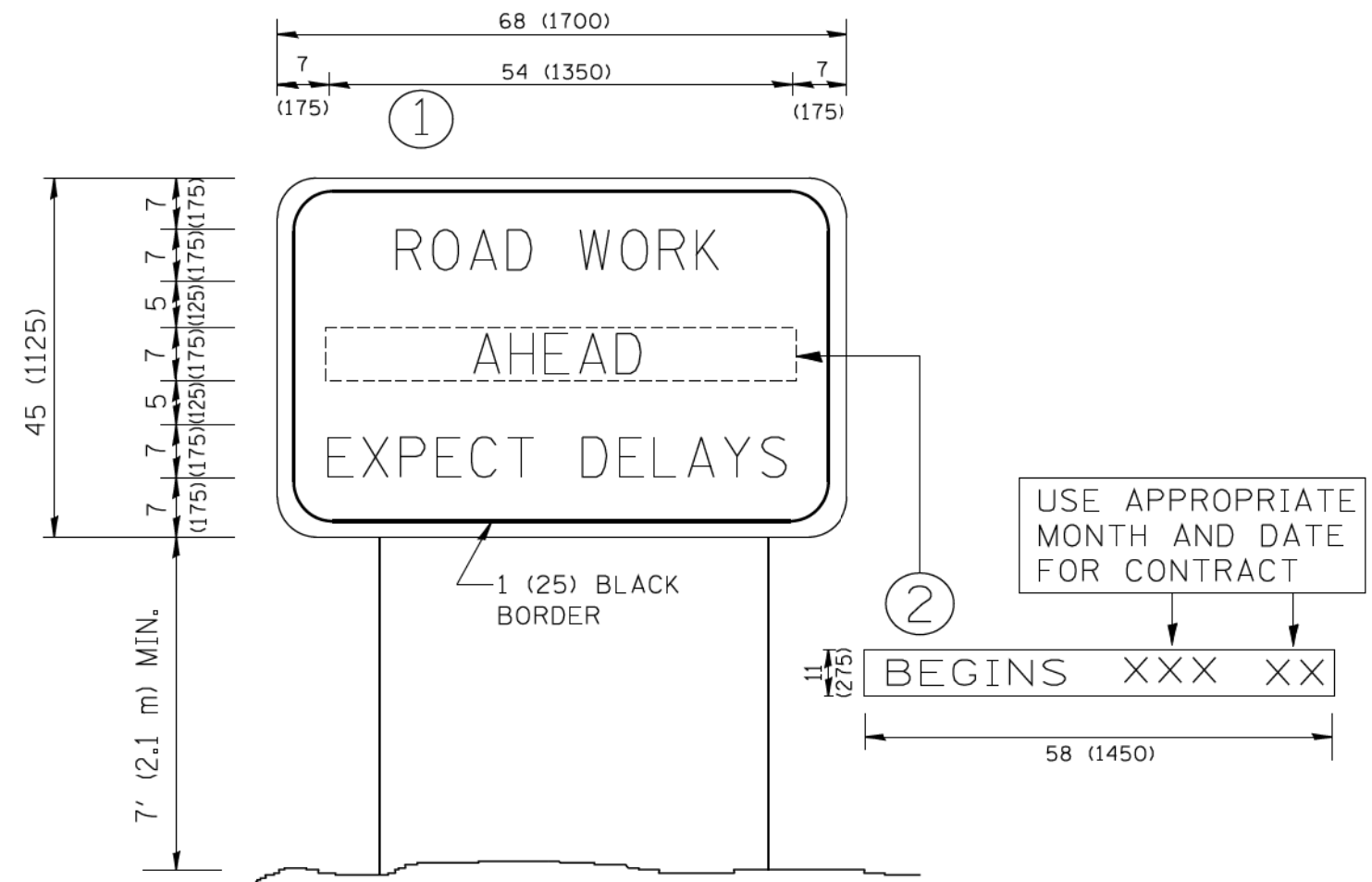
**DETOUR SIGNING  
FOR CLOSING STATE HIGHWAYS**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
124	15-00124-00-PV	MCHENRY	121	108
<b>TC-21</b>				
ILLINOIS FED. AID PROJECT				

CONTRACT NO. 61H27

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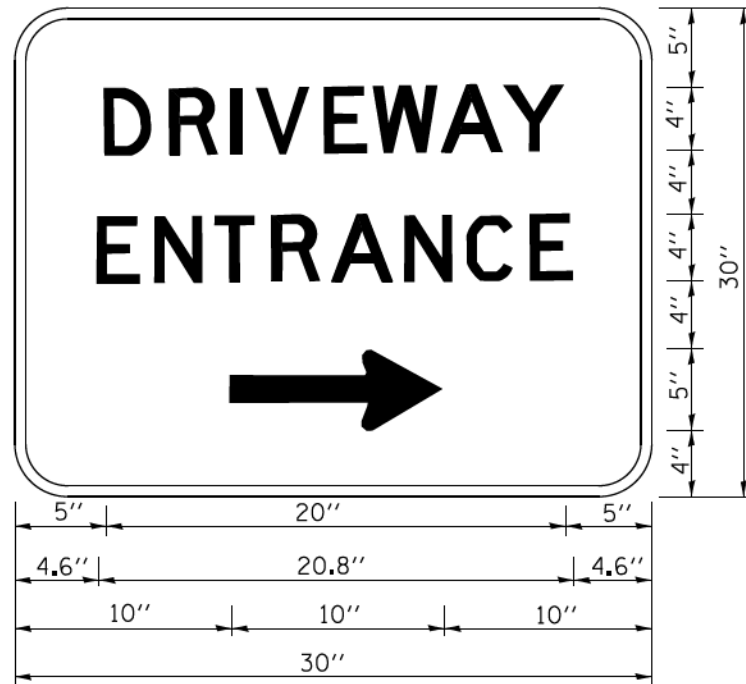


**NOTES:**

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.

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PLOT DATE = 1/4/2008	DATE -				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						



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

**NOTES:**

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

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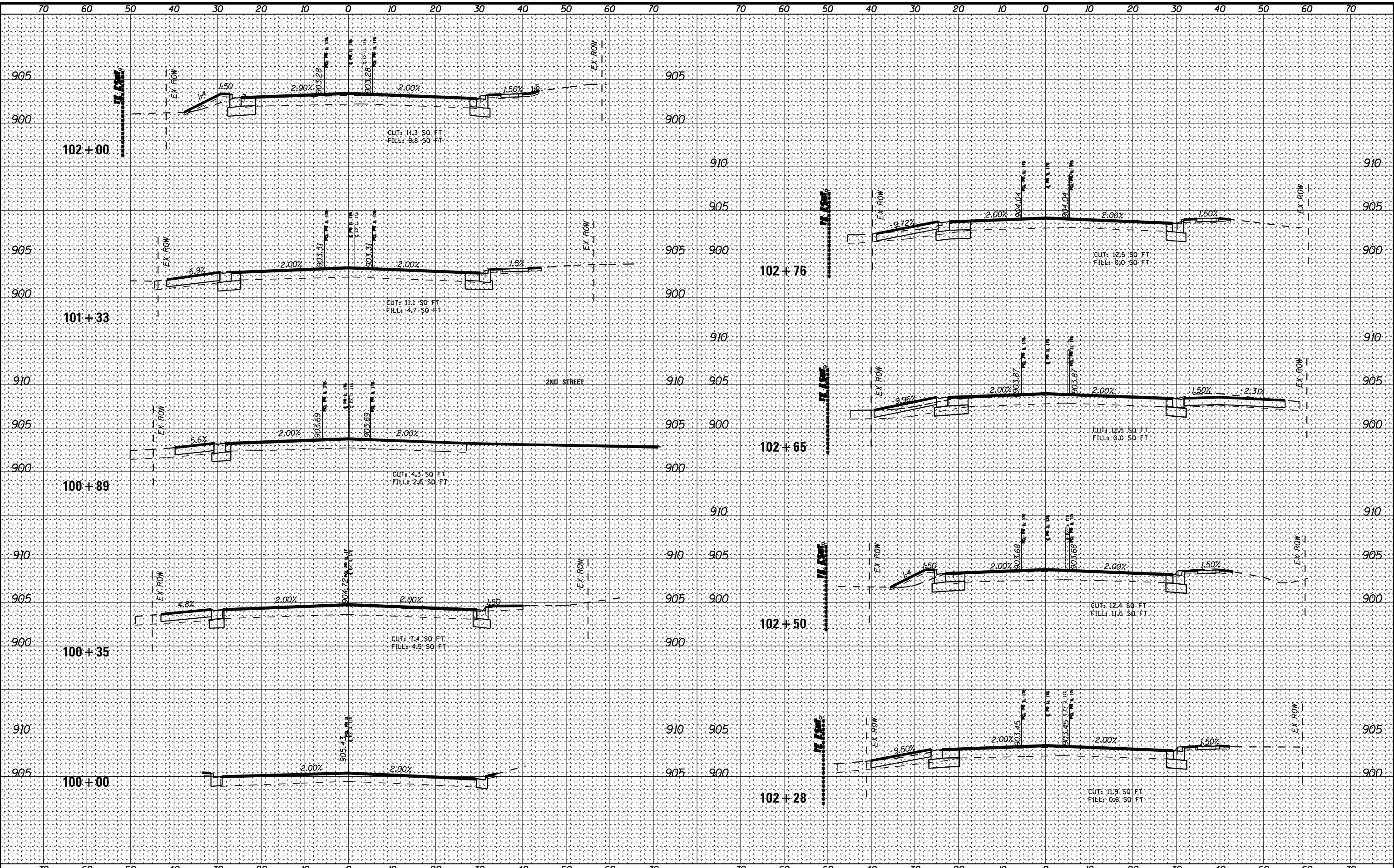
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>DRIVEWAY ENTRANCE SIGNING</b>			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

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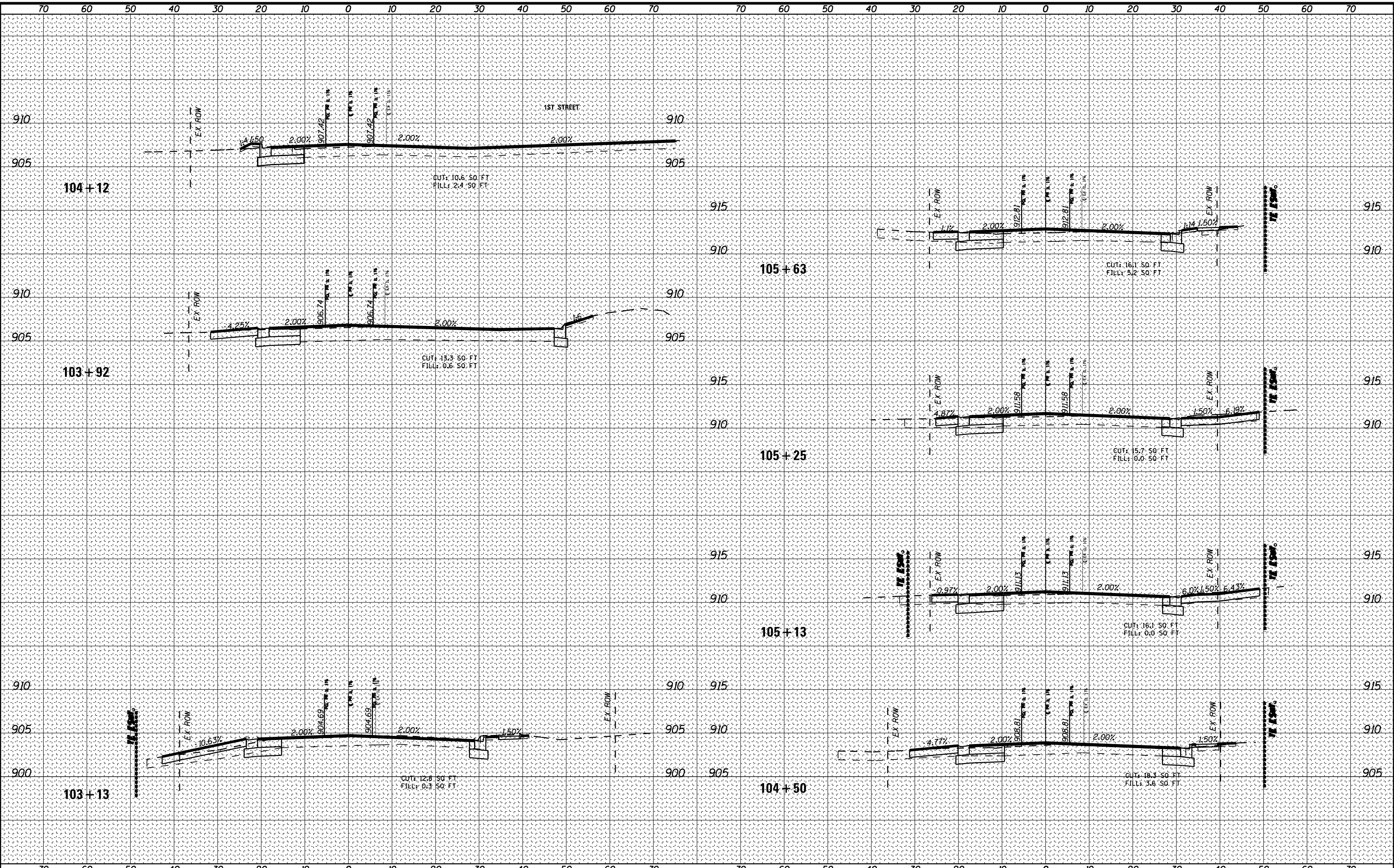
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
IL ROUTE 176

SCALE: H: 1"=10' V: 1"=5'  
STA. 100+00 TO STA. 102+76

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
124	15-00124-00-PV	MCHENRY	121	111
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H27	

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**BAXTER & WOODMAN**  
 Consulting Engineers

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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

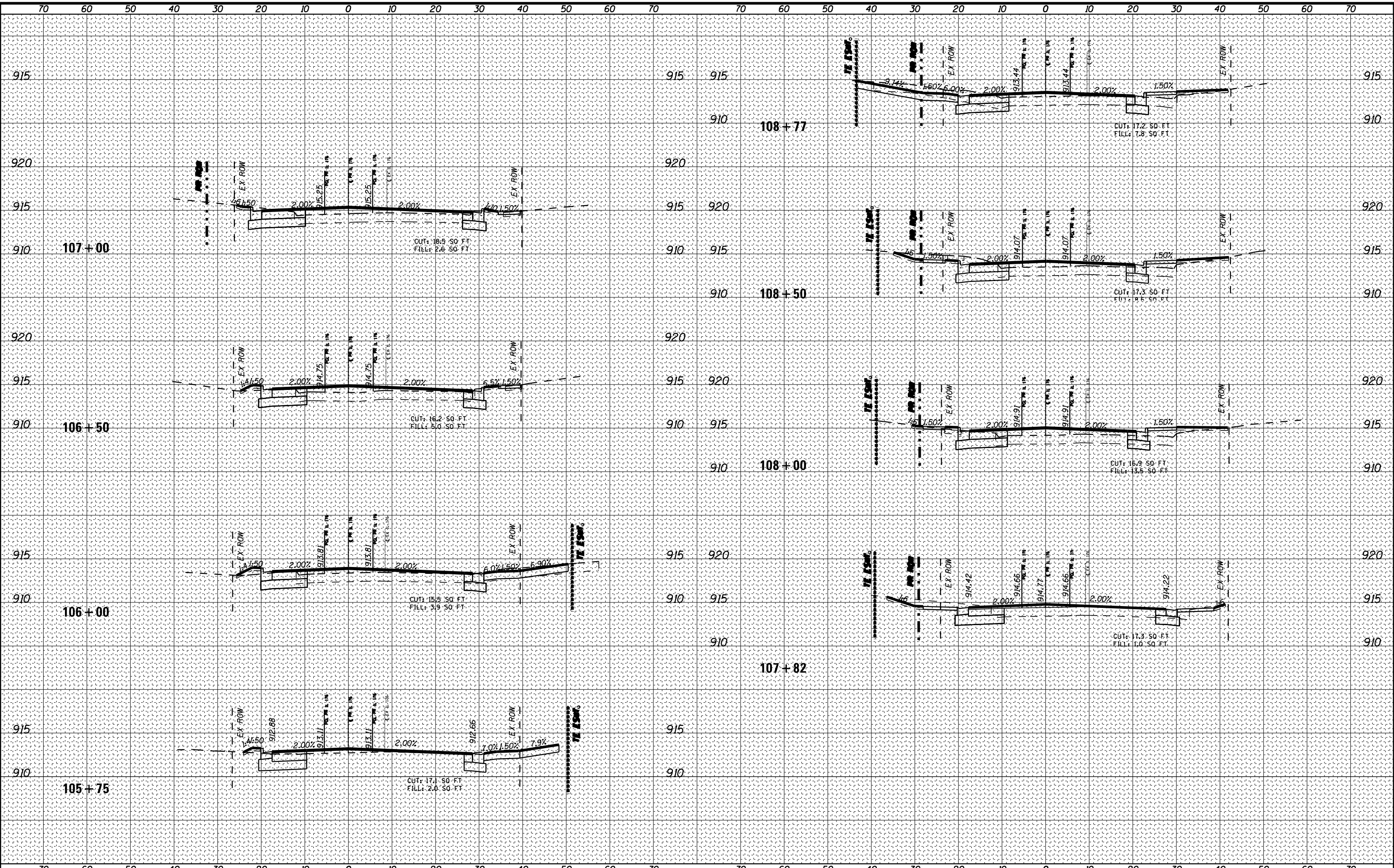
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 IL ROUTE 176

SCALE: H: 1"=10' V: 1"=5'  
 STA. 103+13 TO STA. 105+63

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
124	15-00124-00-PV	MCHENRY	121	112
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H27	



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**BAXTER & WOODMAN**  
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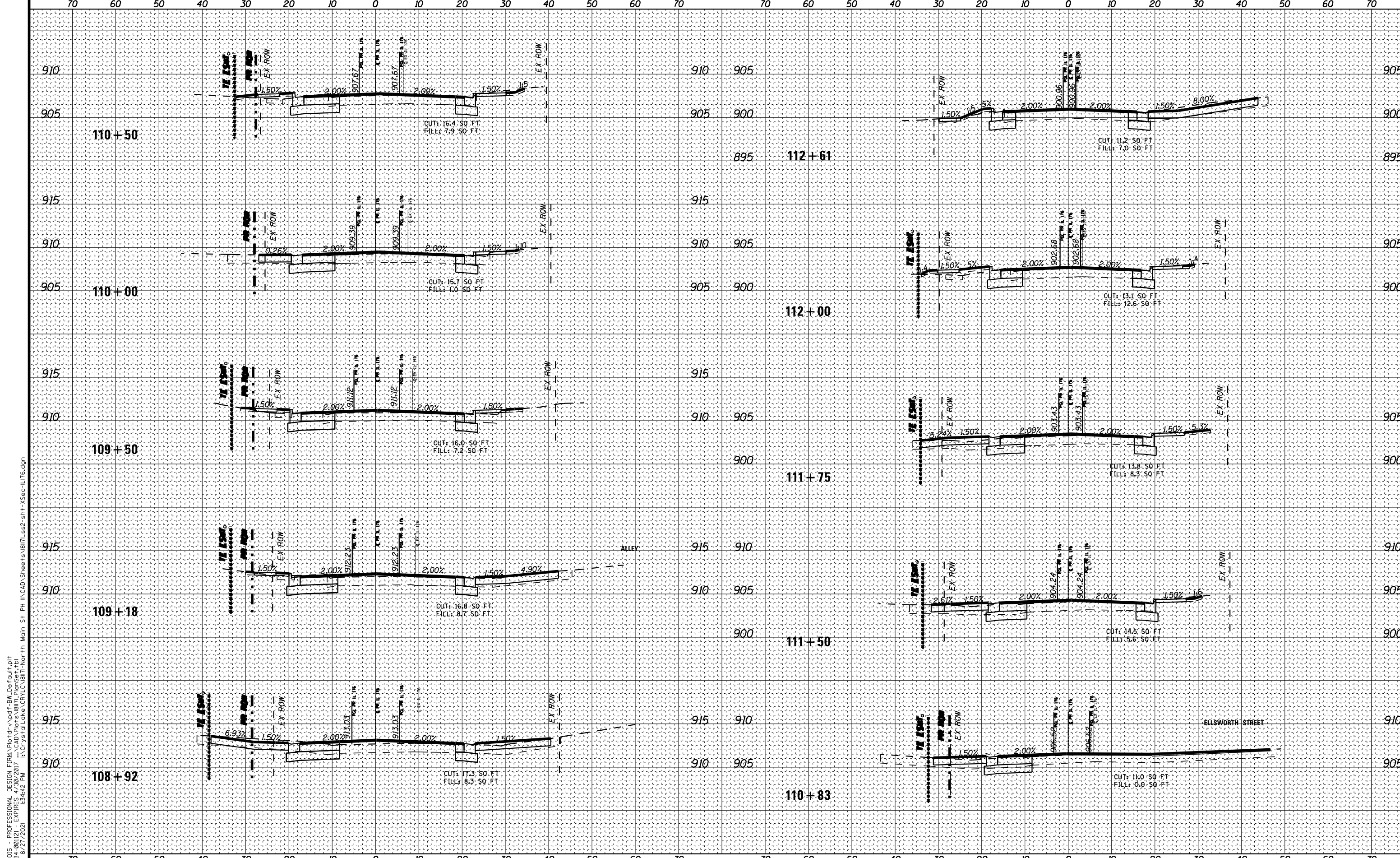
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
 IL ROUTE 176

SCALE: H: 1"=10' V: 1"=5'  
 STA. 105+75 TO STA. 108+77

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
124	15-00124-00-PV	MCHENRY	121	113
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H27	



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

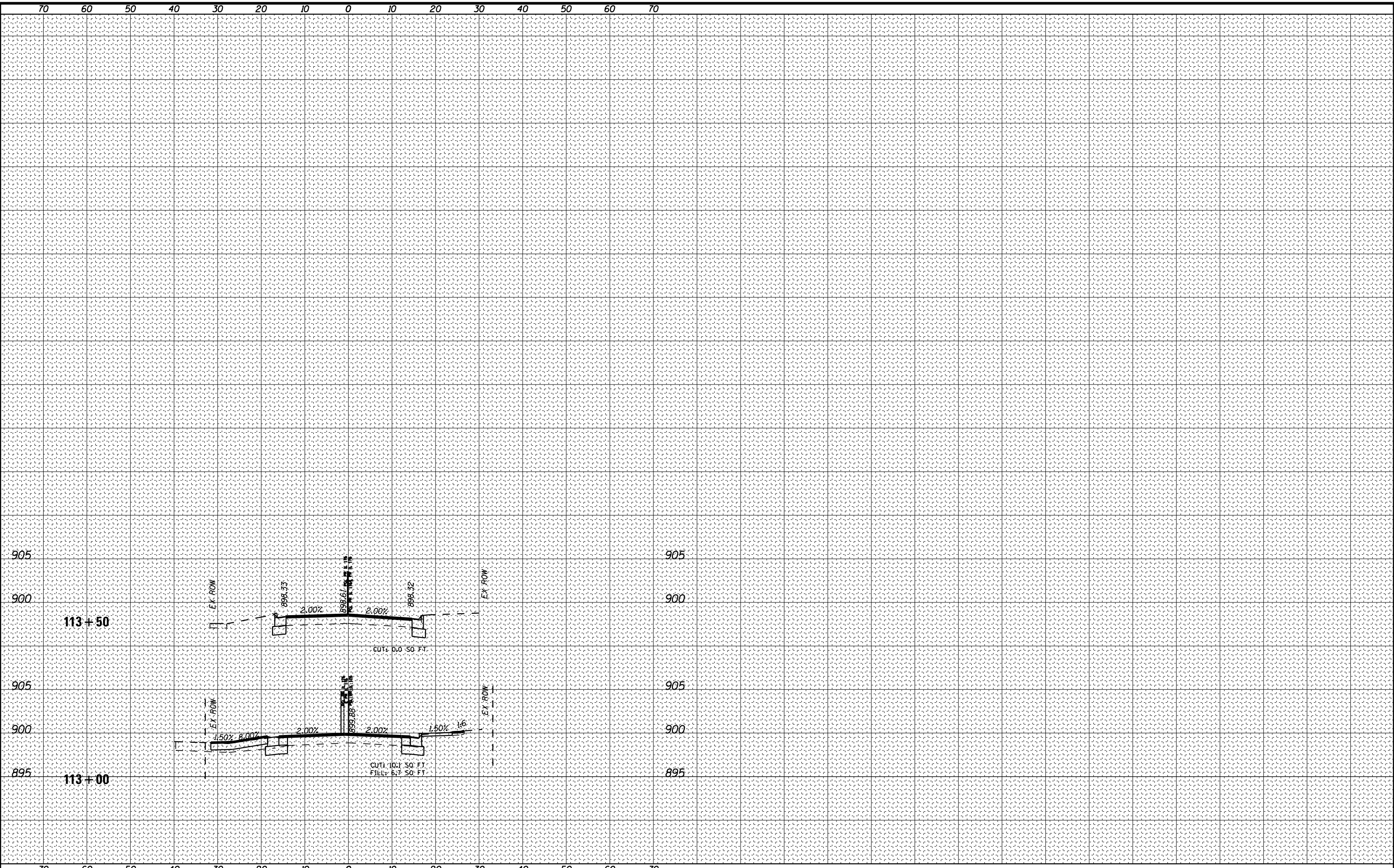
**CROSS SECTIONS  
IL ROUTE 176**

SCALE: H: 1"=10' V: 1"=5'

STA. 108+92 TO STA. 112+61

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
124	15-00124-00-PV	MCHENRY	121	114
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H27	

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**BAXTER & WOODMAN**  
Consulting Engineers

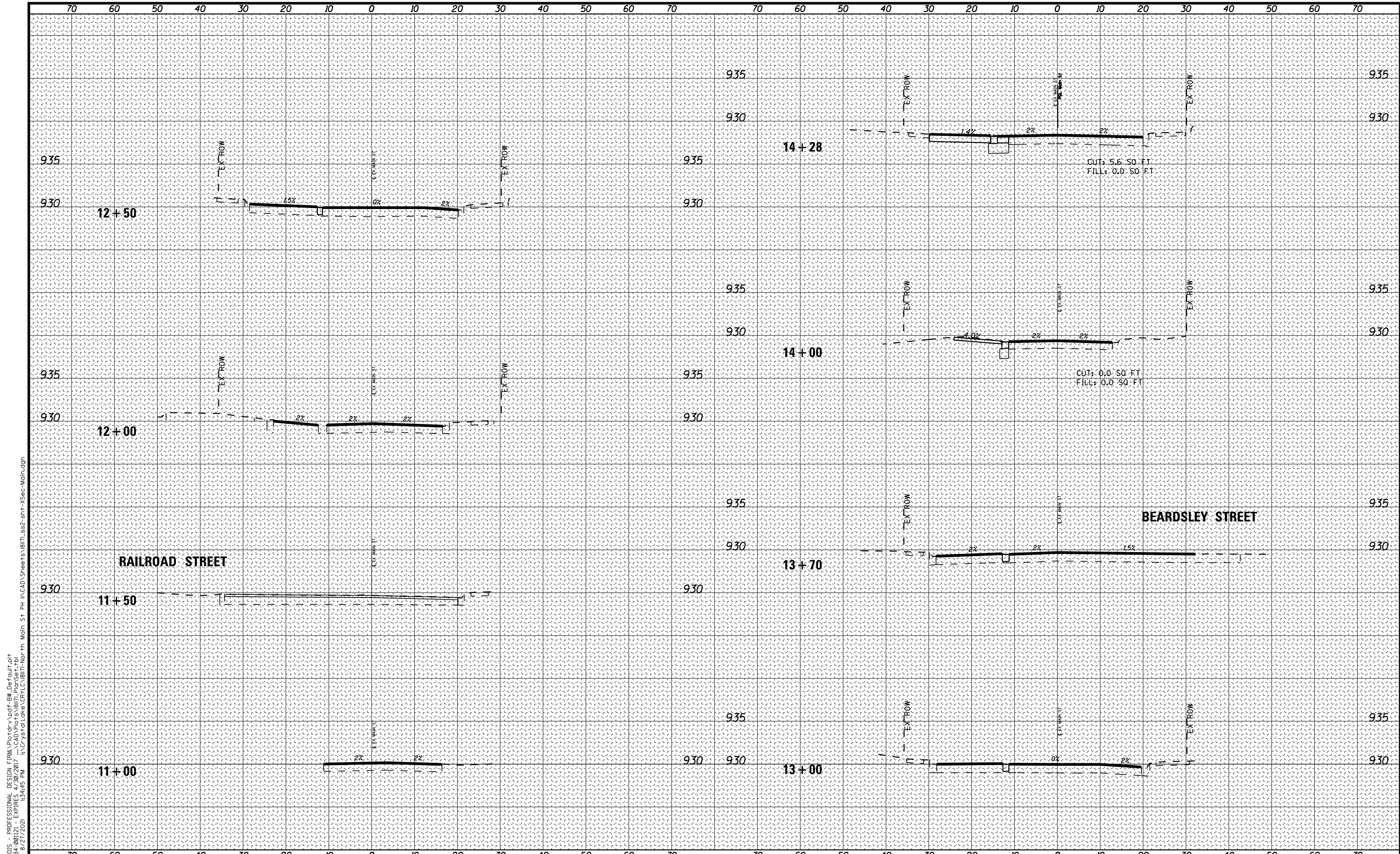
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
IL ROUTE 176**

SCALE: H: 1"=10' V: 1"=5'      STA. 113+00      TO STA. 113+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
124	15-00124-00-PV	MCHENRY	121	115
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H27	



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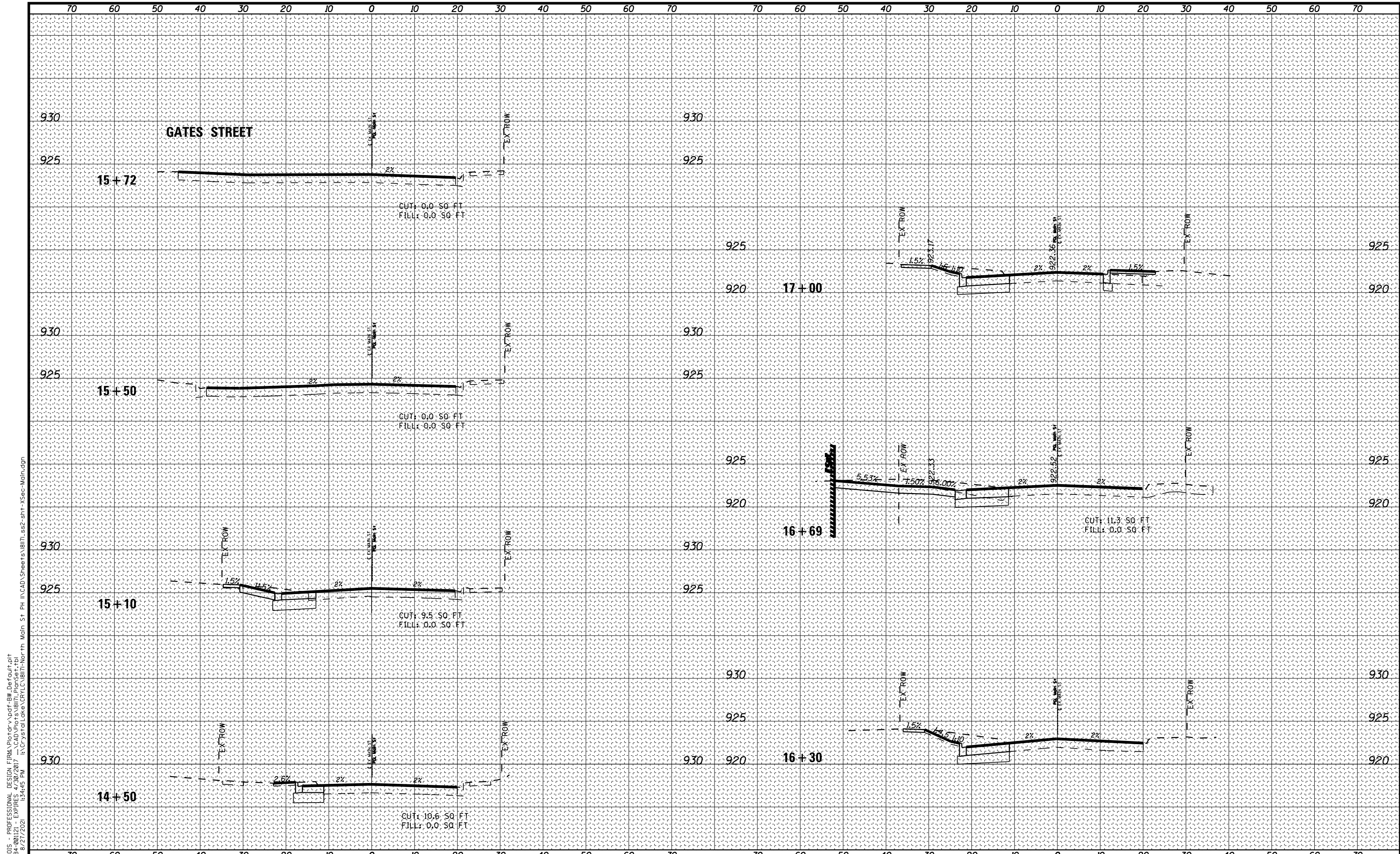
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
MAIN STREET**

SCALE: H: 1"=10' V: 1"=5'      STA. 11+00      TO STA. 14+28

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
124	15-00124-00-PV	MCHENRY	121	116
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H27	



STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM Plot: \\s:\proj\181171\181171-ss2-sht-XSec-Main.dgn  
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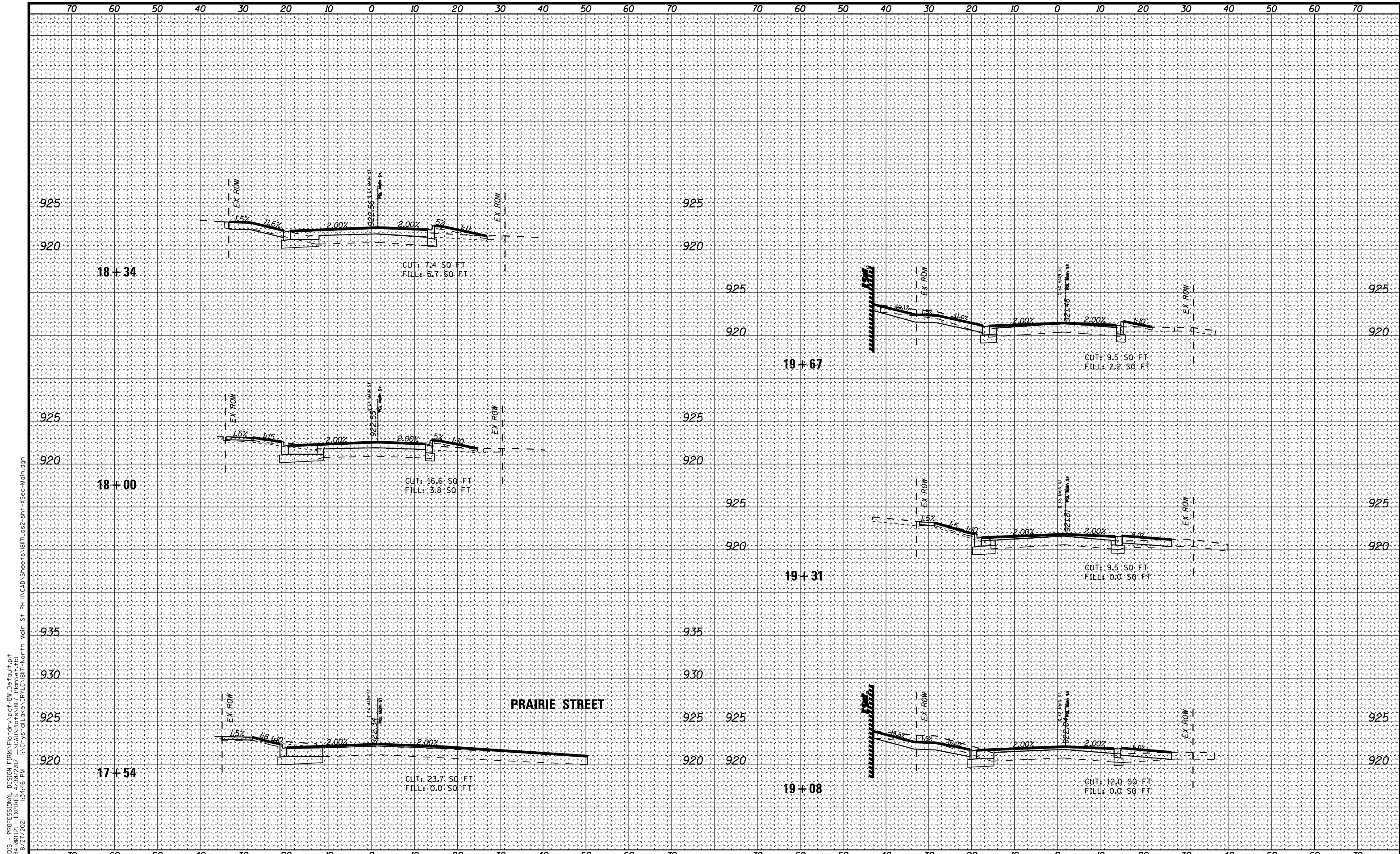
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
MAIN STREET**

SCALE: H: 1"=10' V: 1"=5'      STA. 14+50      TO STA. 17+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
124	15-00124-00-PV	MCHENRY	121	117
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H27	



PRAIRIE STREET

**CROSS SECTIONS  
MAIN STREET**

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE - 08-26-2021	FILE - 181171_ss2-sht-XSec-Main.dgn

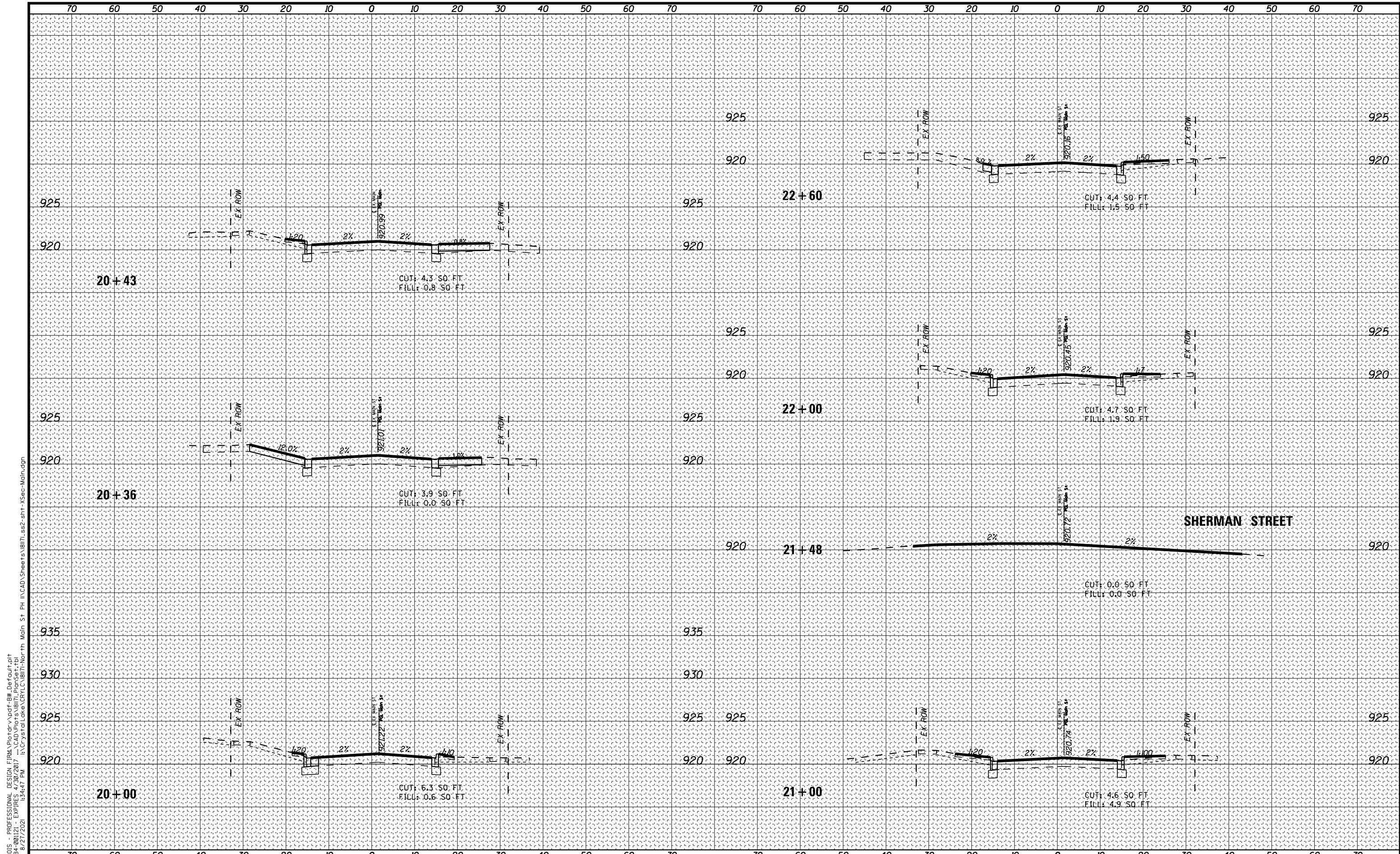
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE: H: 1"=10' V: 1"=5'  
STA. 17+54 TO STA. 19+67

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
124	15-00124-00-PV	MCHENRY	121	118
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 61H27		

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM Plot for: \s\p\dwg\B\W\Default.plt  
 LICENSE NO. - 184-000121 - EXPIRES 4/30/2017 - CAD\_Plot\181171\_PlanSet.tbl  
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 cscrcmak

**BAXTER & WOODMAN**  
Consulting Engineers



STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM Plot: 181171-ss2-sht-XSec-Main.dgn  
 LICENSE NO. 184-000121 - EXPIRES 4/30/2017  
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 8/27/2021 1:34:47 PM  
 csr:cmk



DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE - 08-26-2021	FILE - 181171-ss2-sht-XSec-Main.dgn

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
MAIN STREET**

SCALE: H: 1"=10' V: 1"=5'      STA. 20+00      TO STA. 22+60

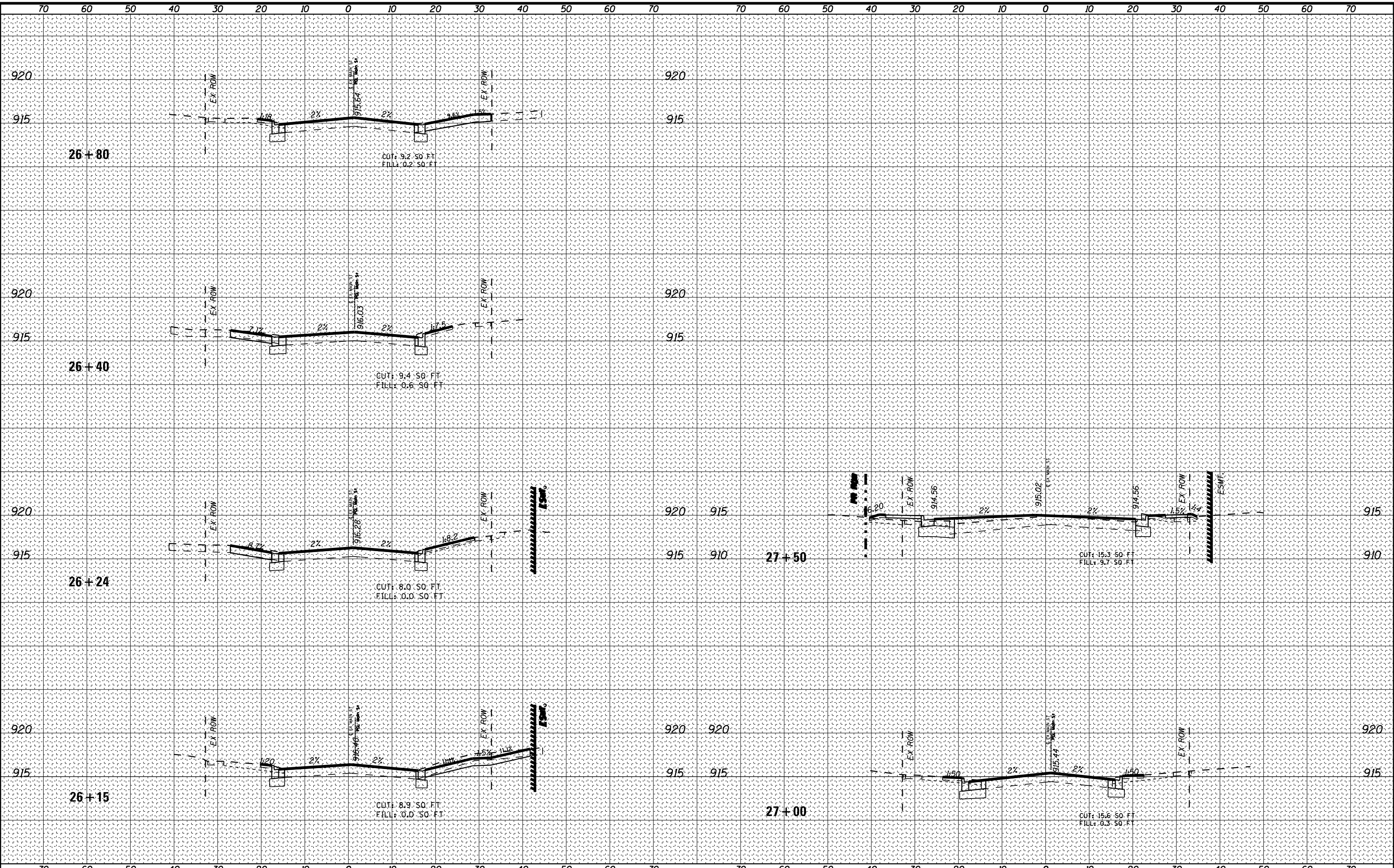
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
124	15-00124-00-PV	MCHENRY	121	119
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H27	







STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM Plot: \\sdcf-bw\Default.plt  
 LICENSE NO. - 184-00121 - EXPIRES 4/30/2017 CAD: Plot: \\sdcf-bw\Plots\set.tbl  
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**BAXTER WOODMAN**  
Consulting Engineers

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE - 08-26-2021	FILE - 181171.ss2-sht-XSec-Main.dgn

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
MAIN STREET

SCALE: H: 1"=10' V: 1"=5'

STA. 26+15 TO STA. 27+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
124	15-00124-00-PV	MCHENRY	121	121
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H27	