

053

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	120N-4	MCHENRY	126	1
ILLINOIS CONTRACT NO. 62C06				

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROJECT IS LOCATED IN:
CITY OF CRYSTAL LAKE

**PROPOSED
HIGHWAY PLANS**

F.A.P. ROUTE 335 (IL 176)
AT HALIGUS ROAD /MT. THABOR ROAD
SECTION: 120N-4
PROJECT: HSIP-KUF9(629)
INTERSECTION IMPROVEMENT & TRAFFIC SIGNAL INSTALLATION
MCHENRY COUNTY

C-91-256-16

TRAFFIC DATA

- IL 176 ADT - 9,950 (2017)
- IL 176 SPEED LIMIT - 55 MPH
- HALIGUS ROAD ADT - 2,750 (2017)
- HALIGUS ROAD SPEED LIMIT - 40 MPH
- MT. THABOR ROAD ADT - 1,200
- MT. THABOR ROAD SPEED LIMIT - 40 MPH



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

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

PROJECT ENGINEER: DANIEL WILGREEN (847) 705-4240
PROJECT MANAGER: FAWAD AQUEEL (847) 705-4247

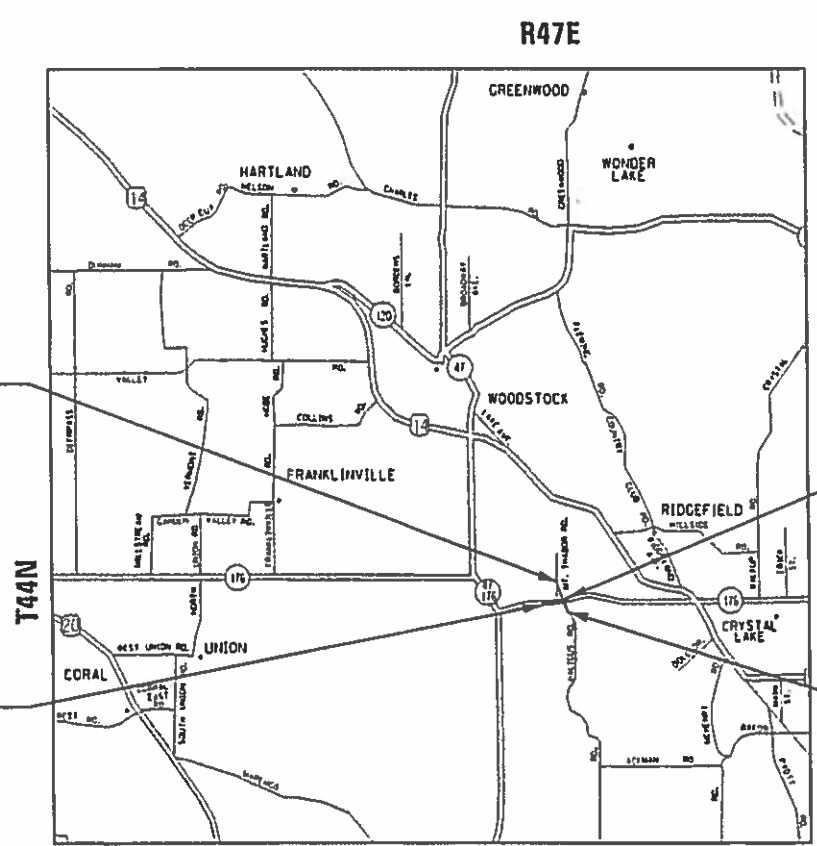
CONTRACT NO. 62C06

PROJECT LIMIT
MT. THABOR RD.
STA. 118 + 00

PROJECT BEGINS
IL 176
STA. 491 + 02.42

PROJECT ENDS
IL 176
STA. 512 + 00

PROJECT LIMIT
HALIGUS RD.
STA. 102 + 21.81



DORR TOWNSHIP

GROSS AND NET LENGTH = 3675.77 FT. = 0.70 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 19, 2019
Anthony J. Quinlan / AS
REGIONAL ENGINEER

May 10, 2019
[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

May 10, 2019
[Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2-3	INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES
4-9	SUMMARY OF QUANTITIES
10-12	EXISTING AND PROPOSED TYPICAL SECTIONS
13	EARTHWORK SCHEDULE
14	TREE REMOVAL SCHEDULE
15	SIGN PANEL SCHEDULE
16-18	ALIGNMENT, TIES, AND BENCHMARKS
19-32	MAINTENANCE OF TRAFFIC (STAGING) PLANS
33-44	ROADWAY PLAN AND PROFILE SHEETS
45-49	EROSION CONTROL PLAN & NOTES
50-60	DRAINAGE PLAN AND PROFILES
61-63	SUE INVESTIGATION AND UNDERGROUND UTILITIES
64-66	PLAT OF HIGHWAYS
67-70	PROPOSED PAVEMENT MARKING PLANS
71-74	PROPOSED LANDSCAPING PLANS
75-78	PROPOSED SIGNAGE PLAN
79-89	SOIL IMPROVEMENT DETAILS
90	MOTORIST NOTIFICATION FOR TURNING ON NEW TRAFFIC SIGNALS
91-101	TRAFFIC SIGNAL DETAILS AND PLANS
102	DRIVEWAY DETAILS DISTANCE BETWEEN R.O.W. AND FACE OF CURB / EDGE OF SHOULDER >= 4.5 m (15') (BD-01)
103	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT (BD-22)
104	BUTT JOINT AND HMA TAPER DETAILS (BD-32)
105	BENCHING DETAIL FOR EMBANKMENT WIDENING (BD-51)
106	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10)
107	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) (TC-11)
108	DISTRICT ONE TYPICAL PAVEMENT MARKING (TC-13)
109	PAVEMENT MARKING LETTERS AND SYMBOL FOR TRAFFIC STAGING (TC-16)
110	ARTERIAL ROAD INFORMATION SIGN (TC-22)
111	DRIVEWAY ENTRANCE SIGNING (TC-26)
112-114	TEMPORARY LIGHTING AND TRAFFIC SIGNALS FOR SINGLE LANE STAGING (BE-805)
115-126	CROSS SECTIONS

LIST OF STATE STANDARDS

000001-07	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEM
406201-01	MAILBOX TURNOUTS
442201-03	CLASS C AND D PATCHES
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
482011-03	HMA SHLD, STRIPS / SHLDS, WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
601001-05	PIPE UNDERDRAINS
601101-02	CONCRETE HEADWALL FOR PIPE UNDERDRAINS
602001-02	CATCH BASIN TYPE A
602401-06	PRECAST MANHOLE TYPE A 4' (1.22 m) DIAMETER
604001-04	FRAME AND LIDS TYPE 1
604036-03	GRATE TYPE 8
604086-03	FRAME AND GRATE TYPE 23
630001-12	STEEL PLATE BEAM GUARDRAIL
630201-07	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINAL
631031-15	TRAFFIC BARRIER TERMINAL, TYPE 6
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5M) TO 24" (600MM) FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-04	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥ 45 MPH
701311-03	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS ≥ 45 MPH
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701502-09	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
805001-01	ELECTRICAL SERVICE INSTALLATION DETAILS
814001-03	HANDHOLES
814006-02	DOUBLE HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
877001-07	STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
878001-10	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS

GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES, (48 HOURS NOTIFICATION IS REQUIRED).

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, CITY OF CRYSTAL LAKE AND MCHENRY COUNTY.

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

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

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

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

THE GENERAL CONTRACTOR IS REQUIRED TO HIRE AN ENVIRONMENTAL FIRM WITH AT LEAST FIVE (5) DOCUMENTED LEAKING UNDERGROUND STORAGE TANK CLEANUPS OR THAT IS PRE-QUALIFIED IN HAZARDOUS WASTE BY THE DEPARTMENT TO REMEDIATE THE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.

THE THICKNESS OF THE HMA MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA MIXTURE IS PLACED.

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

THE RESIDENT ENGINEER SHALL CONTACT WALTER CZARNY, AREA TRAFFIC FIELD ENGINEER, AT WALTER.CZARNY@ILLINOIS.GOV, A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

ANY DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

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

DRAINAGE ADJUSTMENT OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

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

THE CONTRACTOR SHALL CONTACT THE DISTRICT TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. THIS SHALL INCLUDE LOCATING THE MAST ARM AND FOUNDATIONS AND VERIFYING THE MAST ARM LENGTHS.

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

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

SAW CUTTING OF PAVEMENTS, SIDEWALK, CURB & GUTTER, ETC. SHALL BE TO FULL DEPTH AND SHALL RESULT IN A CLEAN STRAIGHT EDGE ON THE PORTION REMAINING. ALL SAW CUTTING SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ITEM REMOVED.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

COMMITMENTS:

TO MINIMIZE OR AVOID POTENTIAL ADVERSE IMPACTS TO THE ENDANGERED SPECIES, BLANDING'S TURTLE (EMYDOIDEA BLANDINGII), THE DEPARTMENT RECOMMENDS THE MEASURES DESCRIBED BELOW TO BE INCLUDED AS COMMITMENTS IN THE NRR

- EDUCATE PERSONNEL WORKING ON SITE ABOUT THE SPECIES. POST PHOTOS OF JUVENILE AND ADULT TURTLES AT A CENTRAL LOCATION.
- INSTALL EXCLUSIONARY SILT FENCE AROUND THE ENTIRE PROJECT AREA BY THE END OF MARCH AND MAINTAIN IT THROUGH OCTOBER (IF NEEDED) TO PREVENT TURTLES FROM ENTERING THE CONSTRUCTION AREA.
- CONDUCT DAILY INSPECTIONS DURING CONSTRUCTION TO ENSURE THAT EXCLUSIONARY FENCING IS PROPERLY INSTALLED (DUG INTO THE GROUND) AND TO CHECK IF TURTLES ARE PRESENT.
- TRENCHES SHOULD BE COVERED AT THE END OF EACH WORK DAY. BEFORE STARTING EACH WORK DAY, TRENCHES AND EXCAVATIONS SHOULD BE ROUTINELY INSPECTED TO ENSURE NO TURTLES (OR OTHER REPTILES) HAVE BECOME TRAPPED WITHIN THEM.
- IF BLANDING'S TURTLES ARE ENCOUNTERED, CREWS SHOULD STOP WORK IMMEDIATELY AND CONTACT IDNR AT 630-399-3242 OR 217-557-0483

GENERAL NOTES CONTINUE ON NEXT SHEET

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USER NAME = bilgramisa	DESIGNED -	REVISED -
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PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/21/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES
IL 176 AT HALIGUS RD./MT. THABOR RD.

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	120N-4	MCHENRY	126	2
CONTRACT NO. 62C06				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES (CONT.):

PRIOR TO EMBANKMENT PLACEMENT, ALL VEGETATION, LOOSE MATERIAL, AND UNSTABLE MATERIAL SHOULD BE REMOVED TO DEPTH ENCOUNTERED AND REPLACED WITH SUITABLE EMBANKMENT MATERIAL. ANY EMBANKMENT WIDENING ON EXISTING SLOPES SHOULD BE BENCHED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAS 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 AGGREGATE SUBGRADE IMPROVEMENT (CUYD) 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 THE IDOT SUBGRADE STABILITY MANUAL.

ANY AGGREGATE SUBGRADE IMPROVEMENT CONTAMINATED AND/OR DAMAGED BY THE CONTRACTOR'S VEHICLES AND/OR EQUIPMENT IS TO BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER AT CONTRACTOR'S EXPENSE.

THE SUBGRADE STABILITY SHALL BE VERIFIED BY PROOF ROLLING WITH A FULLY LOADED TANDEM-AXLE TRUCK.

PIPE UNDERDRAINS TYPE 2 SHALL BE INSTALLED ACCORDING TO SECTION 601 OF THE SSRBC AND STANDARD 601001-05. TOP OF PIPE UNDERDRAINS SHALL BE PLACED 6" BELOW THE SUBGRADE OR UNDERCUT.

THE CONTRACTOR SHALL CONTACT THE ROADSIDE DEVELOPMENT UNIT IN THE BUREAU OF MAINTENANCE AT (847) 705-4171 AT LEAST 72 HOURS IN ADVANCE OF SELECTIVE CLEARING WORK TO ASSIST WITH MARKING OF TREES TO BE SAVED.

THE CONTRACTOR SHALL TAKE EXTRA CARE IN GRADING AND EXCAVATING NEAR TREES WHICH ARE NOT MARKED FOR REMOVAL SO AS NOT TO CAUSE INJURY TO THE ROOT SYSTEM OR TRUNKS. MAJOR ROOTS OF A TREE THAT ARE TO REMAIN IN PLACE EXTENDING INTO THE EXCAVATION AREAS AT AN ELEVATION THAT WOULD INTERFERE WITH ANY PORTION OF THE PLANNED CONSTRUCTION SHALL BE SEVERED AT A POINT IMMEDIATELY OUTSIDE OF THE EXACTION AREA IN A MANNER THAT WILL CAUSE THE LEAST AMOUNT OF SYSTEMIC TO THE REMAINING TREE STRUCTURE. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE.

THE CONTRACTOR SHALL ERECT A TEMPORARY FENCE AROUND ALL TREES WITHIN THE CONSTRUCTION AREA TO ESTABLISH A "TREE PROTECTION ZONE" AND AROUND EXISTING WETLANDS TO ESTABLISH A "WETLAND PROTECTION ZONE" BEFORE ANY WORK BEGINS OR ANY MATERIAL IS DELIVERED TO THE JOBSITE. NO WORK IS TO BE PERFORMED (OTHER THAN ROOT PRUNING), MATERIALS STORED OR VEHICLE DRIVEN OR PARKED WITHIN THE "TREE PROTECTION ZONE" AND "WETLAND PROTECTION ZONE." REMOVE PROTECTIVE TEMPORARY FENCE ONLY AFTER ALL CONSTRUCTION WORK HAS BEEN COMPLETED.

THE CONTRACTOR SHALL ATTACH AN ALUMINUM SIGN WITH THE FOLLOWING TEXT: PROTECTED WETLAND - NOT INTRUSION. THE SIGN(S) SHALL BE ATTACHED TO THE STAKES BY A METHOD APPROVED BY THE ENGINEER. THE SIGN(S) WILL BE PROVIDED BY THE DEPARTMENT AND SHALL BE PICKED UP BY THE CONTRACTOR FROM THE DISTRICT ONE ROADSIDE DEVELOPMENT ARCHITECT IN SCHAUMBURG, ILLINOIS BY CONTACTING 847-705-4171. WHEN WORK HAS BEEN COMPLETED, THE SIGN SHALL BE RETURNED TO THE DISTRICT ONE ROADSIDE DEVELOPMENT UNIT. THE COST OF PICKING UP, ATTACHING THE SIGNS TO THE TEMPORARY FENCE STAKES AND RETURNING THE SIGNS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR TEMPORARY FENCE.

GENERAL NOTES (CONT.):

IF THIS CONTRACT REQUIRES THE SERVICES OF AN ELECTRICAL CONTRACTOR, THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS/HER OWN EXPENSE FOR LOCATING EXISTING IDOT ELECTRICAL FACILITIES PRIOR TO PERFORMING ANY WORK. IF THIS CONTRACT DOES NOT REQUIRE THE SERVICES OF AN ELECTRICAL CONTRACTOR, THE CONTRACTOR MAY REQUEST ONE FREE LOCATE FOR EXISTING IDOT ELECTRICAL FACILITIES FROM THE DISTRICT ONE ELECTRICAL MAINTENANCE CONTRACTOR PRIOR TO THE START OF ANY WORK. ADDITIONAL REQUESTS MAY BE AT THE EXPENSE OF THE CONTRACTOR. THE LOCATION OF UNDERGROUND TRAFFIC FACILITIES DOES NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO REPAIR ANY FACILITIES DAMAGED DURING CONSTRUCTION AT THEIR EXPENSE.

THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL COORDINATE ANY CONFLICTS WITH THE UTILITY COMPANIES AND THE RESIDENT ENGINEER BEFORE ORDERING MATERIALS.

RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

404 PERMIT NOTE:

THE PROJECT REQUIRES A U.S. ARMY CORPS OF ENGINEERS (USACE) 404 PERMIT THAT WILL BE SECURED BY THE DEPARTMENT. AS A CONDITION OF THIS PERMIT, THE CONTRACTOR WILL NEED TO SUBMIT AN IN-STREAM WORK PLAN TO THE DEPARTMENT FOR APPROVAL. GUIDELINES ON ACCEPTABLE IN-STREAM AND WETLAND WORK TECHNIQUES CAN BE FOUND ON THE USACE WEBSITE. THE USACE DEFINES AND DETERMINES IN-STREAM WORK. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT AN IN-STREAM WORK PLAN WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED WITH THE EXCEPTION OF COFFERDAMS, WHICH WILL BE PAID FOR AS COFFERDAM (TYPE 1) (IN-STREAM/WETLAND WORK) WITH A BASIS OF PAYMENT OF EACH.

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES
IL 176 AT HALIGUS RD./MT. THABOR RD.**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	120N-4	MCHENRY	126	3
CONTRACT NO. 62C06				
		ILLINOIS	FED. AID PROJECT	

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT		90% FED	90% FED	100%			
				10% STATE	5% STATE	CITY OF			
			ROADWAY	CRYSTAL LAKE	CRYSTAL LAKE				
			0004	0021	0021				
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	206	206					
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	480	480					
20101000	TEMPORARY FENCE	FOOT	6480	6480					
20101200	TREE ROOT PRUNING	EACH	57	57					
20200100	EARTH EXCAVATION	CU YD	13438	13438					
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	5856	5856					
20900110	POROUS GRANULAR BACKFILL	CU YD	5856	5856					
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SO YD	1038	1038					
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	11343	11343					
* 25000210	SEEDING, CLASS 2A	ACRE	1.2	1.2					
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	110	110					
* 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	110	110					
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	110	110					
* 25100630	EROSION CONTROL BLANKET	SO YD	27221	27221					
* 28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	560	560					

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT		90% FED	90% FED	100%			
				10% STATE	5% STATE	CITY OF			
			ROADWAY	CRYSTAL LAKE	CRYSTAL LAKE				
			0004	0021	0021				
28000400	PERIMETER EROSION BARRIER	FOOT	2898	2898					
28000510	INLET FILTERS	EACH	3	3					
28100107	STONE RIPRAP, CLASS A4	SO YD	1005	1005					
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	355	355					
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SO YD	10372	10372					
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SO YD	3054	3054					
35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SO YD	95	95					
35501313	HOT-MIX ASPHALT BASE COURSE, 7 1/4"	SO YD	2376	2376					
35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SO YD	406	406					
35600705	HOT-MIX ASPHALT BASE COURSE WIDENING, 7 1/4"	SO YD	409	409					
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	8393	8393					
40600827	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	364	364					
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	45	45					
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	73	73					

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		90% FED 10% STATE ROADWAY 0004	90% FED 5% STATE 5% CITY OF CRYSTAL LAKE SIGNALS 0021	100% CITY OF CRYSTAL LAKE EVP 0021				90% FED 10% STATE ROADWAY 0004	90% FED 5% STATE 5% CITY OF CRYSTAL LAKE SIGNALS 0021	100% CITY OF CRYSTAL LAKE EVP 0021	
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	56	56									
40603565	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70	TON	863	863									
40701851	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 8 1/2"	SO YD	4252	4252									
44000100	PAVEMENT REMOVAL	SO YD	7152	7152									
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SO YD	6039	6039									
44002240	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 10"	SO YD	130	130									
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SO YD	80	80									
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SO YD	50	50									
44201809	CLASS D PATCHES, TYPE IV, 13 INCH	SO YD	64	64									
48101498	AGGREGATE SHOULDERS, TYPE B 4"	SO YD	1455	1455									
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SO YD	3360	3360									
50105220	PIPE CULVERT REMOVAL	FOOT	126	126									
50300225	CONCRETE STRUCTURES	CU YD	35.2	35.2									
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	3190	3190									
52200015	PERMANENT SHEET PILING	SO FT	15384	15384									
52200020	TEMPORARY SOIL RETENTION SYSTEM	SO FT	6963	6963									
542A1057	PIPE CULVERTS, CLASS A, TYPE 2 12"	FOOT	88	88									
542A1060	PIPE CULVERTS, CLASS A, TYPE 2 15"	FOOT	64	64									
542A1069	PIPE CULVERTS, CLASS A, TYPE 2 24"	FOOT	144	144									
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	305	305									
60108204	PIPE UNDERDRAINS, TYPE 2, 4"	FOOT	4666	4666									
60224005	MANHOLES, TYPE A, 6' -DIAMETER, TYPE 8 GRATE	EACH	3	3									
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	825	825									
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4									
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	720	720									
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	4	4									
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	LSUM	1	1									
													* SPECIALTY ITEM

SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE						SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE							
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	90% FED 10% STATE ROADWAY 0004	90% FED 5% STATE 5% CITY OF CRYSTAL LAKE SIGNALS 0021	100% CITY OF CRYSTAL LAKE EVP 0021					CODE NO	ITEM	UNIT	TOTAL QUANTITIES	90% FED 10% STATE ROADWAY 0004	90% FED 5% STATE 5% CITY OF CRYSTAL LAKE SIGNALS 0021	100% CITY OF CRYSTAL LAKE EVP 0021				
* 66901002	ON-SITE MONITORING OF REGULATED SUBSTANCES	CAL DA	20	20							70300912	PAVEMENT MARKING TAPE, TYPE IV 12"	FOOT	833	833						
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	LSUM	1	1							70300924	PAVEMENT MARKING TAPE, TYPE IV 24"	FOOT	174	174						
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	18	18							70400100	TEMPORARY CONCRETE BARRIER	FOOT	800	800						
67100100	MOBILIZATION	L SUM	1	1							70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	800	800						
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	60		60						70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	6	6						
70300100	SHORT TERM PAVEMENT MARKING	FOOT	4511	4511							70600332	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	6	6						
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SO FT	568	568						* 72000100	SIGN PANEL - TYPE 1	SO FT	101.1	86.1	15						
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SO FT	155	155						* 72000200	SIGN PANEL - TYPE 2	SO FT	40		40						
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	17425	17425						* 72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	7	7							
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	716	716						* 72400200	REMOVE SIGN PANEL ASSEMBLY - TYPE B	EACH	4	4							
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	811	811						* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4							
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	96	96						72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	154	154							
70300904	PAVEMENT MARKING TAPE, TYPE IV 4"	FOOT	56353	56353						* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	155	155							
70300906	PAVEMENT MARKING TAPE, TYPE IV 6"	FOOT	431	431						* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	17425	17425							* SPECIALTY ITEM

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	PLOT DATE = 3/21/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 176 AT HALIGUS RD./MT. THABOR RD.
SUMMARY OF QUANTITIES**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	120N-4	MCHENRY	126	6
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 62C06	

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		90% FED 10% STATE ROADWAY 0004	90% FED 5% STATE 5% CITY OF CRYSTAL LAKE SIGNALS 0021	100% CITY OF CRYSTAL LAKE EVP 0021		
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE	FOOT	716	716				
	6"							
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE	FOOT	811	811				
	12"							
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE	FOOT	96	96				
	24"							
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	170	170				
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	52	52				
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	834	834				
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	151	151				
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	304	304				
81400200	HEAVY-DUTY HANDHOLE	EACH	7	7				
81400300	DOUBLE HANDHOLE	EACH	1	1				
85000500	MAINTENANCE OF EXISTING FLASHING BEACON INSTALLATION	EACH	2	2				

SUMMARY OF QUANTITIES				TOTAL QUANTITIES	CONSTRUCTION TYPE CODE			
CODE NO	ITEM	UNIT	90% FED 10% STATE ROADWAY 0004		90% FED 5% STATE 5% CITY OF CRYSTAL LAKE SIGNALS 0021	100% CITY OF CRYSTAL LAKE EVP 0021		
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	320	320				
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	731	731				
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1400	1400				
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1059	1059				
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	240	240				
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	800	800				
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4	4				
87702860	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 26 FT.	EACH	1	1				
87702870	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 28 FT.	EACH	1	1				
87702880	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 30 FT.	EACH	2	2				
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	20	20				* SPECIALTY ITEM

SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE						SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	90% FED	90% FED	100%				CODE NO	ITEM	UNIT	TOTAL QUANTITIES	90% FED	90% FED	100%			
				10% STATE	5% STATE	CITY OF								10% STATE	5% STATE	CITY OF			
				ROADWAY	CRYSTAL LAKE	CRYSTAL LAKE								ROADWAY	CRYSTAL LAKE	CRYSTAL LAKE			
				0004	0021	0021								0004	0021	0021			
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4		4					89501510	RELOCATE EXISTING FLASHING BEACON	EACH	2		2				
87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	20		20					89502400	REMOVE EXISTING FLASHING BEACON INSTALLATION COMPLETE	EACH	2		2				
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	22		22					* A2002914	TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	5	5					
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4		4					* A2006616	TREE, QUERCUS IMBRICARIA (SHINGLE OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	4	4					
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4		4					* A2006716	TREE, QUERCUS MACROCARPA (BUR OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	6	6					
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4		4					* A2007114	TREE, QUERCUS RUBRA (RED OAK), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	4	4					
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	8		8					* C3006024	SHRUB, RHUS TYPHINA (STAGHORN SUMAC), 2' HEIGHT, BARE ROOT	EACH	155	155					
88500100	INDUCTIVE LOOP DETECTOR	EACH	4		4					X0324079	EXISTING FIELD TILE REMOVAL	FOOT	305	305					
88600100	DETECTOR LOOP, TYPE I	FOOT	256		256					X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	320				320		
88700200	LIGHT DETECTOR	EACH	2			2				X0326276	TEMPORARY LIGHTING FOR SINGLE LANE STAGING	L SUM	1		1				
88700300	LIGHT DETECTOR AMPLIFIER	EACH	1			1				X0327979	PAVEMENT MARKING REMOVAL - GRINDING	SO FT	3115	3115					
89000050	TEMPORARY BRIDGE TRAFFIC SIGNAL INSTALLATION	EACH	1		1														
																			* SPECIALTY ITEM

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL 176 AT HALIGUS RD./MT. THABOR RD.			
SUMMARY OF QUANTITIES			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	120N-4	MCHENRY	126	8
CONTRACT NO. 62C06				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT		90% FED 10% STATE ROADWAY 0004	90% FED 5% STATE 5% CITY OF CRYSTAL LAKE SIGNALS 0021	100% CITY OF CRYSTAL LAKE EVP 0021			
X0327980	PAVEMENT MARKING REMOVAL - WATER	SO FT	4434	4434					
	BLASTING								
X1400107	FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET	EACH	1		1				
X1400150	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1		1				
X1400201	RADAR VEHICLE DETECTION SYSTEM, SINGLE APPROACH, STOP BAR	EACH	2		2				
* X2501800	SEEDING, CLASS 4 (MODIFIED)	ACRE	4.4	4.4					
X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	1	1					
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1					
X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	240	240					
* X7810010	REFLECTOR MARKERS, TYPE B	EACH	17	17					
X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1		1				
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1					
Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	115.3	115.3					
Z0062456	TEMPORARY PAVEMENT	SO YD	3565	3565					

SUMMARY OF QUANTITIES				TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	90% FED 10% STATE ROADWAY 0004		90% FED 5% STATE 5% CITY OF CRYSTAL LAKE SIGNALS 0021	100% CITY OF CRYSTAL LAKE EVP 0021				
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1		1					
X0900075	COFFERDAM (TYPE 1) (IN-STREAM/WETLAND WORK)	EACH	4	4						
Z0076600	TRAINEES	hour	500	500						
Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	hour	500	500						

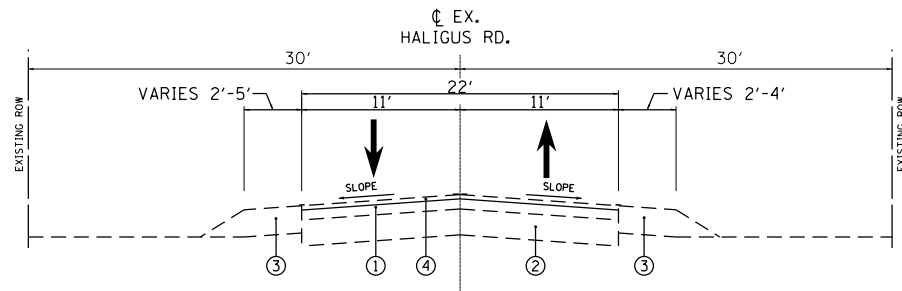
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	PLOT DATE = 3/21/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

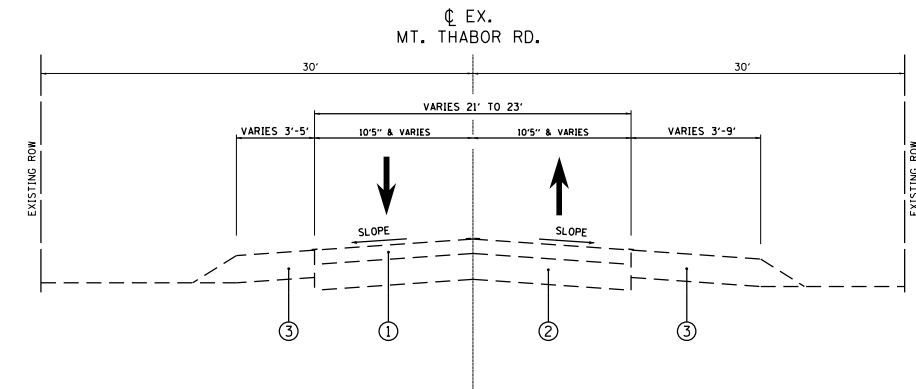
**IL 176 AT HALIGUS RD./MT. THABOR RD.
SUMMARY OF QUANTITIES**

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

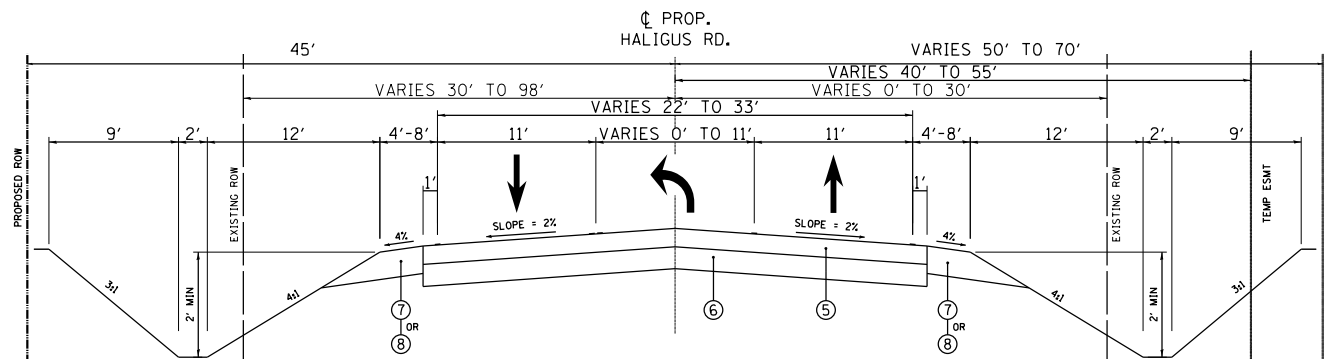
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	120N-4	MCHENRY	126	9
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 62C06	



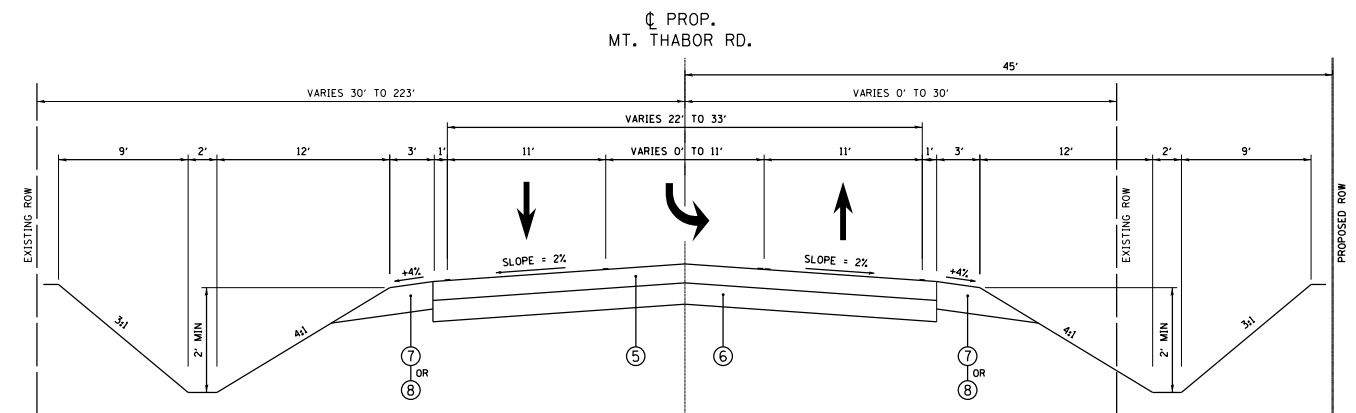
**HALIGUS RD.
EXISTING TYPICAL SECTION**
STA. 694+10.68 TO STA. 700+00 (EX. CL)



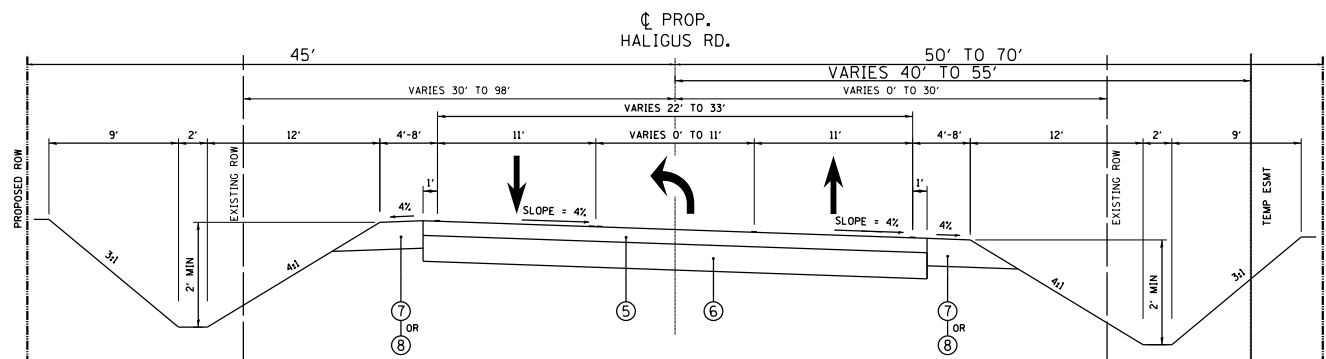
**MT. THABOR RD.
EXISTING TYPICAL SECTION**
STA. 200+00 TO STA. 209+94.04 (EX. CL)



**HALIGUS RD.
PROPOSED TYPICAL SECTION**
STA. 102+21.81 TO STA. 104+00



**MT. THABOR RD.
PROPOSED TYPICAL SECTION**
STA. 108+56 TO STA. 118+00



**HALIGUS RD.
PROPOSED TYPICAL SECTION
(SUPERELEVATION)**
STA. 104+00 TO STA. 106+93

LEGEND

- ① EX. HMA SURFACE COURSE (5 1/4")
- ② EX. PCC PAVEMENT (9"-7"-9")
- ③ EX. AGGREGATE SHOULDER
- ④ PROP. HMA SURFACE REMOVAL (2 1/2" MINIMUM)
- ⑤ PROP. HMA PAVEMENT (FULL DEPTH) (8 1/2")
- ⑥ PROP. AGGREGATE SUBGRADE IMPROVEMENT, 12"
- ⑦ PROP. HMA SHOULDER, 8"
- ⑧ PROP. AGGREGATE SHOULDER, TYPE B 4"

SEE ROADWAY PLANS FOR LOCATIONS OF RESURFACING,
WIDENING & RECONSTRUCTION

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING AND PROPOSED TYPICAL SECTIONS IL 176 AT HALIGUS RD./MT. THABOR RD.			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	120N-4	MCHENRY	126	11
CONTRACT NO. 62C06				
ILLINOIS		FED. AID PROJECT		

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		
MIXTURE TYPE	AIR VOID @ N _{DES}	QUALITY MANAGEMENT PROGRAM (QMP)
RESURFACING (IL 176)		
POLYMERIZED HMA SURFACE COURSE, MIX "E", N70 (IL 9.5 mm); 1 3/4"	4% @ 70 GYR	QC/OA
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50; 3/4"	3.5% @ 50 GYR	QC/OA
PAVEMENT WIDENING (IL 176)		
POLYMERIZED HMA SURFACE COURSE, MIX "E", N70 (IL 9.5 mm); 1 3/4"	4% @ 70 GYR	QC/OA
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50; 3/4"	3.5% @ 50 GYR	QC/OA
HMA BASE COURSE; 7 1/4" (HMA BINDER IL - 19.0)	4% @ 90 GYR	QC/OA
HMA BASE COURSE WIDENING; 7 1/4" (HMA BINDER IL - 19.0)	4% @ 90 GYR	QC/OA
HMA PAVEMENT (FULL DEPTH) 8 1/2" (Haligus Rd./ Mt. Thabor Rd.)		
HMA SURFACE COURSE, MIX "D", N70 (IL 9.5 mm); 1 3/4"	4% @ 70 GYR	QC/OA
HMA BINDER COURSE IL-19.0, N70; 6 3/4"	4% @ 70 GYR	QC/OA
DRIVEWAYS		
HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50 (IL 9.5 mm); 2"	4% @ 50 GYR	QC/OA
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19 mm); PE 6"; CE - 8"	4% @ 50 GYR	QC/OA
HMA SHOULDERS, 8"		
HMA SURFACE COURSE, MIX "D", N70 (IL 9.5 mm); 1 3/4"	4% @ 70 GYR	QC/OA
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 6 1/4"	4% @ 70 GYR	QC/OA
PATCHING		
CLASS D PATCHES (HMA BINDER IL-19 mm)	4% @ 70 GYR	QC/OA
HMA REPLACEMENT OVER PATCHES (HMA BINDER IL-19 mm)	4% @ 70 GYR	QC/OA
TEMPORARY PAVEMENT (IL 176 & HALIGUS RD. / MT. THABOR RD.)		
HMA SURFACE COURSE, MIX "D", N70 (IL 9.5 mm); 2"	4% @ 70 GYR	QC/OA
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 8"	4% @ 70 GYR	QC/OA
QMP Designation: Quality Control/ Quality Assurance (QC/OA); Quality Control for Performance (QCP); Pay for Performance (PPF)		

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

THE "AC TYPE" FOR POLYMERIZED MIXTURES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

FOR USE OF RECYCLED MATERIALS SEE DISTRICT ONE SPECIAL PROVISION.

QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.

CONTRACTOR SHALL PATCH BEFORE MILLING

IF PCC IS BEING USED AS AN OPTION FOR TEMPORARY PAVEMENT: PCC TEMPORARY PAVEMENT SHALL CONSIST OF CLASS PV CONCRETE MEETING THE REQUIREMENTS OF ART. 1020 OF THE STANDARD SPECIFICATIONS. PCC PAVEMENT SHALL BE 8" THICK. TEMPORARY PCC PAVEMENT DOES NOT REQUIRE DOWEL BARS.

ALL TEMPORARY PAVEMENT SHALL BE PROVIDED OVER 4" SUBBASE GRANULAR MATERIAL, TYPE B.

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PLOT DATE = 3/21/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXISTING AND PROPOSED TYPICAL SECTIONS
IL 176 AT HALIGUS RD./MT. THABOR RD.**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	120N-4	MCHENRY	126	12
CONTRACT NO. 62C06				
		ILLINOIS	FED. AID PROJECT	

EARTHWORK SCHEDULE										
1 LOCATION	2 CUT EARTH EXCAVATION (CU YD)		3 FILL EMBANKMENT (CU YD)		4 ADJUSTMENT FOR SHRINKAGE (CU YD)		5 EARTHWORK BALANCE WASTE (+) SHORTAGE (-) (CU YD)		6 TOPSOIL EXCAVATION & PLACEMENT (CU YD)	
	LEFT OFFSET	RIGHT OFFSET	LEFT OFFSET	RIGHT OFFSET	LEFT OFFSET	RIGHT OFFSET	LEFT OFFSET	RIGHT OFFSET	LEFT OFFSET	RIGHT OFFSET
IL 176 (STA 491+02.42 TO STA 509+21.09)	1890.12	1924.93	671.43	619.76	1606.602	1636.1905	935.172	1016.4305	-	-
HALIGUS RD. (102+21.81 TO 108+00) (PROP. CL)	1194.91	2594.22	54.74	15.3	1015.6735	2205.087	960.9335	2189.787		
MT. THABOR RD. (STA 108+00 TO STA 118+00) (PROP. CL)	4444.01	1389.38	402.56	807.86	3777.4085	1180.973	2969.5485	373.113	-	-
TOTAL	7529.04	5908.53	1128.73	1442.92	6399.684	5022.2505	4865.654	3579.3305	7260	4083
	13438						8444.9845		11343	

COLUMN 1: LOCATION FROM PLANS

COLUMN 2: CUT QUANTITIES FROM CROSS SECTIONS, WHICH DOES NOT INCLUDE UNSUITABLE MATERIAL

COLUMN 3: QUANTITIES FROM CROSS SECTIONS (FILL)

COLUMN 4: EARTH EXCAVATION THAT IS TO BE USED AS FILL MATERIAL IN THE EMBANKMENT, SHRINKAGE FACTOR WAS DETERMINED TO BE 15%

COLUMN 5: COLUMN 4 - COLUMN 3, POSITIVE QUANTITY= EXTRA EXCAVATION, NEGATIVE QUANTITY= FURNISHED EXCAVATION NEEDED

COLUMN 6: TOPSOIL EXCAVATION & PLACEMENT = AREA OF SEEDING X 15 INCH OF TOPSOIL

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PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EARTHWORK SCHEDULE IL 176 AT HALIGUS RD./MT. THABOR RD.			
SCALE:	SHEET 1	OF 1	SHEETS
	STA.		TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	120N-4	MCHENRY	126	13
			CONTRACT NO. 62C06	
		ILLINOIS	FED. AID PROJECT	

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TREE REMOVAL SCHEDULE								
IL 176			Haligus Rd. (Ex. CL)			Mt. Thabor Rd. (Ex. CL)		
Station	Offset	Size (Unit)	Station	Offset	Size (Unit)	Station	Offset	Size (Unit)
496+47.01	45.21' RT	MS	693+93.26	27.58' RT	2 x 7	202+95.44	39.35' RT	6
497+03.53	45.91' RT	18	694+05.89	27.03' RT	16	202+98.57	24.20' RT	27
497+19.80	43.75' RT	32	694+09.22	14.18' RT	4 x 6	203+11.32	27.01' RT	6
497+49.35	41.26' RT	8	695+04.61	31.77' RT	6.5	203+41.22	27.44' RT	6
			695+27.58	27.57' RT	13	203+58.34	26.92' RT	7
			695+35.81	25.94' RT	7	203+97.70	27.0' RT	9
			695+48.65	31.37' RT	6	204+20.43	28.72' RT	8
			695+51.25	32.04' RT	6	204+30.62	32.85' RT	6
			695+51.64	21.20' RT	11	204+55.12	21.46' RT	6
			695+53.52	24.90' RT	6	204+70.50	20.64' RT	8
			695+80.37	23.19' RT	6	204+79.55	32.17' RT	3 x 8
			695+94.32	26.53' RT	MS - 7	205+53.05	28.77' RT	2 x 5
			696+01.41	25.11' RT	20	206+29.92	26.48' RT	24
			696+49.30	20.39' RT	10	206+70.21	25.48' RT	19
			696+69.12	26.56' RT	16	206+83.66	35.11' RT	10
			696+69.69	21.05' RT	2 x 18	206+99.65	21.31' RT	8
			697+11.76	27.53' RT	18	207+30.32	22.04' RT	4 x 16
			697+19.02	21.60' RT	16	207+45.84	24.60' RT	35
			697+35.06	21.46' RT	15	207+70.93	24.03' RT	17
			697+42.29	21.01' RT	42	207+84.39	25.75' RT	16

Tree Removal (6 to 15 Units Diameter)	=	206	Unit
Tree Removal (Over 15 Units Diameter)	=	480	Unit

MS = Multi-Stem Tree

ROAD NAME	EXISTING SIGNS		PROPOSED SIGNS		SIGN DESCRIPTION	MUTCD CODE	HEIGHT FT	WIDTH FT	AREA SQFT	PANEL TYPE	PROPOSED ACTION	REMOVE SIGN	REMOVE SIGN	TELESCOPING	SIGN PANEL
	STATION	OFFSET	STATION	OFFSET								PANEL ASSY TYP A	PANEL ASSY TYP B	STEEL SIGN SUP.	TYPE 1
												72400100 EACH	72400200 EACH	72800100 FT	72000100 SQFT
IL 176			495+00	RT	SIGNAL AHEAD SIGN	W3-3	3.00	3.00	9.00	1	NEW SIGN				9.0
					STREET NAME PLAQUE: "Mt. Thabor Rd." "Haligus Rd."	W16-8aP	1.25	3.00	3.75	1	NEW SIGN			17	3.8
IL 176	496+85	RT	497+00	RT	CURVE LEFT	W1-2(L)	3.00	3.00	9.00	1	REMOVE & PLACE NEW SIGN	1		15	9.0
IL 176			503+50	RT	CARDINAL DIRECTION EAST	M3-2	1.00	2.00	2.00	1	NEW SIGN			15	2.0
					ILLINOIS ROUTE 176	M1-I100	2.00	3.00	6.00	1	NEW SIGN				6.0
IL 176			505+50	RT	SPEED LIMIT 55	R2-1	3.00	2.50	7.50	1	NEW SIGN			15	7.5
IL 176	502+80	RT	509+21	RT	NO PASSING ZONE	W14-3	3.00	3.71	5.57	1	REMOVE & PLACE NEW SIGN	1		15	5.6
IL 176			508+00	LT	SIGNAL AHEAD SIGN	W3-3	3.00	3.00	9.00	1	NEW SIGN			17	9.0
					STREET NAME PLAQUE: "Mt. Thabor Rd." "Haligus Rd."	W16-8aP	1.25	3.00	3.75	1	NEW SIGN				3.8
IL 176			501+00	LT	CARDINAL DIRECTION WEST	M3-4	1.00	2.00	2.00	1	NEW SIGN			15	2.0
					ILLINOIS ROUTE 176	M1-I100	2.00	3.00	6.00	1	NEW SIGN				6.0
IL 176			499+00	LT	SPEED LIMIT 55	R2-1	3.00	2.50	7.50	1	NEW SIGN			15	7.5
Haligus Rd.			105+00	LT	SPEED LIMIT 40	R2-1	3.00	2.50	7.50	1	NEW SIGN			15	7.5
Mt. Thabor Rd.			112+00	RT	SPEED LIMIT 40	R2-1	3.00	2.50	7.50	1	NEW SIGN			15	7.5
IL 176	500+00	RT			TWO DIRECTIONAL ARROW	W1-7			0.00	1	REMOVE SIGN PANEL ASSY	1			0.0
IL 176	501+30	LT			TWO DIRECTIONAL ARROW	W1-7			0.00	1	REMOVE SIGN PANEL ASSY	1			0.0
Haligus Rd. (Ex. CL)	692+90	RT			STOP AHEAD	W3-1			0.00	1	REMOVE SIGN PANEL ASSY		1		0.0
					"IL Route 176"	W16-8P				1					
Haligus Rd. (Ex. CL)	699+26	RT			STOP SIGN	R1-1			0.00	1	REMOVE SIGN PANEL ASSY		1		0.0
					CROSS TRAFFIC DOES NOT STOP	W4-4P				1					
Haligus Rd. (Ex. CL)	699+25	RT			ILLINOIS ROUTE 176	M1-I100				1	REMOVE SIGN PANEL ASSY	1			0.0
					HORIZONTAL DOUBLE-HEADED ARROW	M6-4			0.00						
Haligus Rd. (Ex. CL)	698+00	LT			SPEED LIMIT 40	R2-1			0.00	1	REMOVE SIGN PANEL ASSY	1			0.0
Mt. Thabor Rd. (Ex. CL)	203+35	RT			SPEED LIMIT 40	R2-1			0.00	1	REMOVE SIGN PANEL ASSY	1			
Mt. Thabor Rd. (Ex. CL)	207+32	LT			STOP AHEAD	W3-1			0.00	1	REMOVE SIGN PANEL ASSY		1		0.0
					"IL Route 176"	W16-8P				1					
Mt. Thabor Rd. (Ex. CL)	200+58	LT			STOP SIGN	R1-1				1	REMOVE SIGN PANEL ASSY		1		0.0
					CROSS TRAFFIC DOES NOT STOP	W4-4P			0	1					
TOTAL												7	4	154.0	86.1

NOTE:
 THE TWO EXISTING SOLAR FLASHING BEACONS WITH INTERSECTION SIGNS ON EB & WB IL 176 WILL BE RELOCATED DURING EACH STAGING PLAN AND WILL BE REMOVED IN STAGE 4. THE REMOVAL WILL BE PAID WITH PAY ITEM: 'REMOVE EXISTING FLASHING BEACON INSTALLATION COMPLETE'.

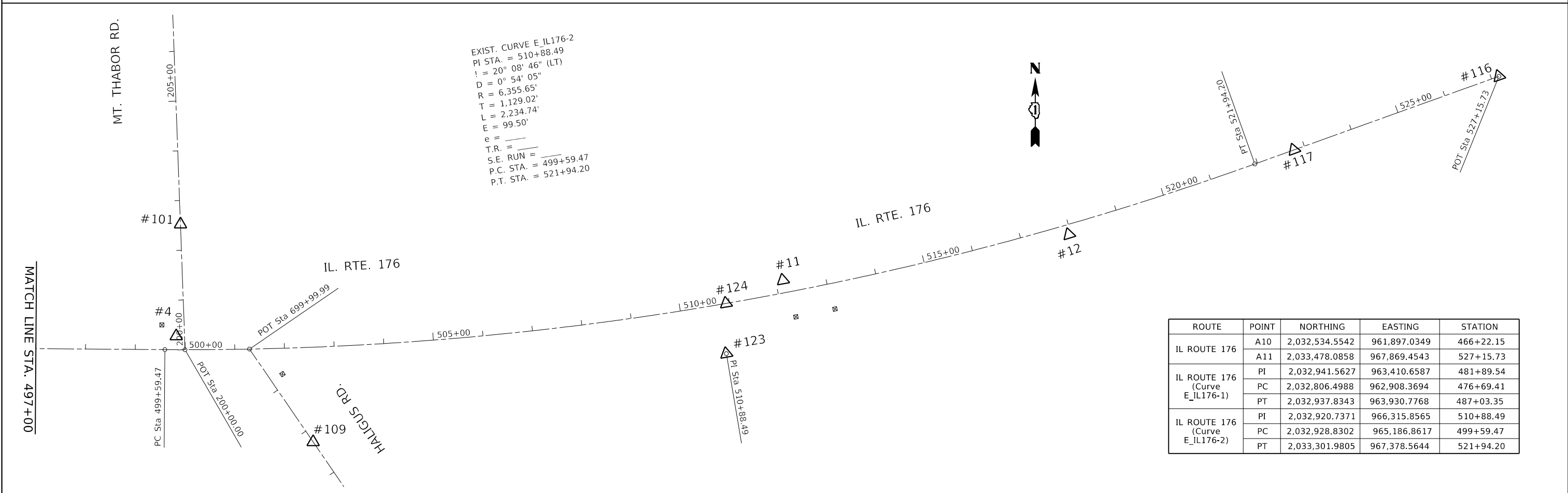
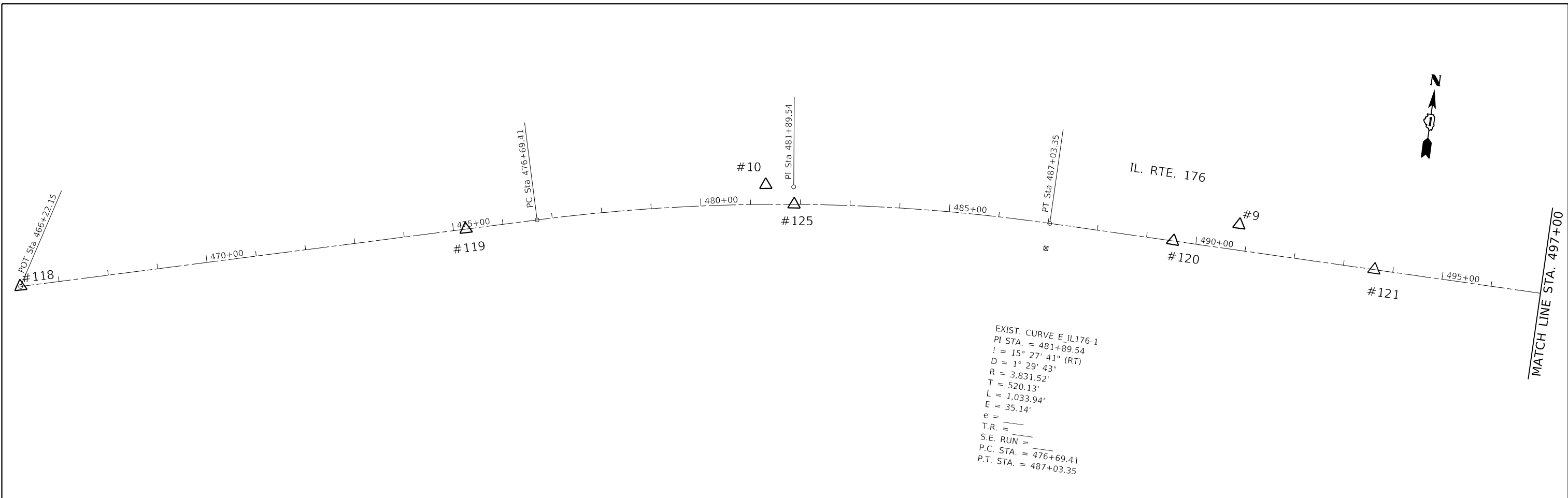
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USER NAME = bilgramisa	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/21/2019	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SIGN PANEL SCHEDULE			
IL 176 AT HALIGUS RD/MT. THABOR RD.			
SCALE:	SHEET 1	OF 1	SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	120N-4	MCHENRY	126	15
CONTRACT NO. 62C06				
ILLINOIS FED. AID PROJECT				



ROUTE	POINT	NORTHING	EASTING	STATION
IL ROUTE 176	A10	2,032,534.5542	961,897.0349	466+22.15
	A11	2,033,478.0858	967,869.4543	527+15.73
IL ROUTE 176 (Curve E_IL176-1)	PI	2,032,941.5627	963,410.6587	481+89.54
	PC	2,032,806.4988	962,908.3694	476+69.41
	PT	2,032,937.8343	963,930.7768	487+03.35
IL ROUTE 176 (Curve E_IL176-2)	PI	2,032,920.7371	966,315.8565	510+88.49
	PC	2,032,928.8302	965,186.8617	499+59.47
	PT	2,033,301.9805	967,378.5644	521+94.20

ROUTE	POINT	NORTHING	EASTING	STATION
HALIGUS RD.	A15	2,030,617.1692	966,525.5355	673+33.30
	A16	2,032,929.8884	965,357.0225	699+99.99
HALIGUS RD. (CURVE E_HAL-1)	PI	2,031,249.6658	966,509.2460	679+66.01
	PC	2,031,189.0514	966,510.8071	679+05.37
	PT	2,031,299.6718	966,474.9540	680+23.28
	HAL1	2,032,263.6906	965,819.7857	100+00.00
PROP. HALIGUS RD.	PI	2,032,706.7405	965,510.8038	105+40.15
	PC	2,032,637.5015	965,559.0909	104+55.74
	PT	2,032,787.5118	965,486.2746	106+23.17
	PI	2,033,748.3723	965,194.4731	116+27.37
	PC	2,033,673.2953	965,217.2731	115+48.90
	PT	2,033,826.8349	965,194.2757	117+04.71
HAL6	2,034,386.2543	965,192.8678	122+64.13	

EXIST. CURVE E_HAL-1
 PI STA. = 679+66.01
 $\Delta = 32^\circ 57' 55''$ (LT)
 $D = 204.93'$
 $T = 60.63'$
 $L = 117.91'$
 $e = 8.78'$
 T.R. =
 S.E. RUN =
 P.C. STA. = 679+05.37
 P.T. STA. = 680+23.28

PROP. CURVE HAL_C1
 PI STA. = 105+40.15
 $\Delta = 17^\circ 59' 56''$ (RT)
 $D = 10^\circ 44' 59''$
 $R = 533.00'$
 $T = 84.41'$
 $L = 167.44'$
 $E = 6.64'$
 $e =$
 T.R. =
 S.E. RUN =
 P.C. STA. = 104+55.74
 P.T. STA. = 106+23.17

PROP. CURVE HAL_C2
 PI STA. = 116+27.37
 $\Delta = 16^\circ 44' 55''$ (RT)
 $D = 10^\circ 44' 59''$
 $R = 533.00'$
 $T = 78.46'$
 $L = 155.81'$
 $E = 5.74'$
 $e =$
 T.R. =
 S.E. RUN =
 P.C. STA. = 115+48.90
 P.T. STA. = 117+04.71

ROUTE	POINT	NORTHING	EASTING	STATION
MOUNT THABOR RD.	A20	2,032,928.6689	965,227.3920	200+00.00
	A21	2,033,799.2018	965,195.4635	208+71.12
	A22	2,036,233.1466	965,190.3276	233+05.07

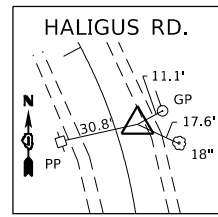
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Default	PLOT DATE = 3/22/2019	CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ALIGNMENTS, TIES AND BENCHMARKS
IL. RTE. 176 AT HALIGUS RD. / MT. THABOR RD.**

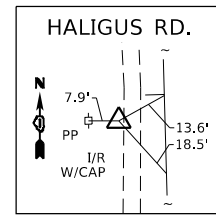
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	120N-4	MCHENRY	126	17
CONTRACT NO. 62C06				
ILLINOIS FED. AID PROJECT				



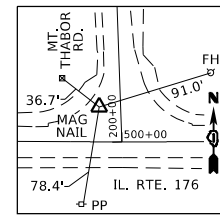
CONTROL POINT #1

SET IRON ROD W/CAP
 STA. 693+56.73, 10.14 LT
 N=2032393.6512
 E=965712.4583
 ELEV.=917.0461



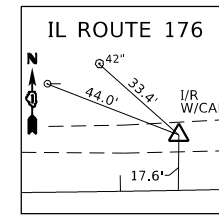
CONTROL POINT #3

SET IRON ROD W/CAP
 STA. 677+93.44, 12.05 LT
 N=2031076.8513
 E=966501.6471
 ELEV.=916.5766



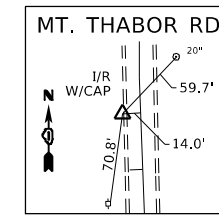
CONTROL POINT #4

SET MAG NAIL
 STA. 499+82.17, 27.23 LT
 N=2032955.9377
 E=965209.6621
 ELEV.=911.7860



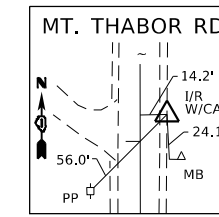
CONTROL POINT #5

SET IRON ROD W/CAP
 STA. 501+18.53, 17.32 LT
 N=2032946.9943
 E=965345.6075
 ELEV.=912.6837



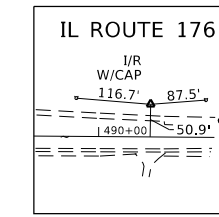
CONTROL POINT #6

SET IRON ROD W/CAP
 STA. 208+43.71, 14.11 LT
 N=2033771.2989
 E=965182.3711
 ELEV.=914.8149



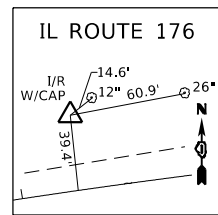
CONTROL POINT #7

SET IRON ROD W/CAP
 STA. 215+14.01, 14.08 RT
 N=2034442.1248
 E=965208.1909
 ELEV.=915.9199



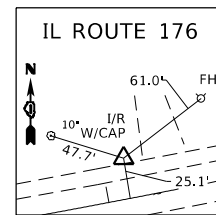
CONTROL POINT #9

SET IRON ROD W/CAP
 STA. 490+80.86, 51.12 LT
 N=2032986.2501
 E=964308.6428
 ELEV.=930.7516



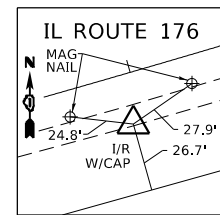
CONTROL POINT #10

SET IRON ROD W/CAP
 STA. 481+30.85, 39.33 LT
 N=2032938.1667
 E=963354.5404
 ELEV.=927.8832



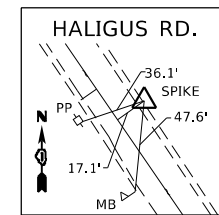
CONTROL POINT #11

SET IRON ROD W/CAP
 STA. 512+14.32, 25.38 LT
 N=2033160.2166
 E=966429.6255
 ELEV.=907.6631



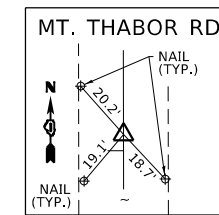
CONTROL POINT #12

SET IRON ROD W/CAP
 STA. 517+95.52, 19.77 RT
 N=2033160.2166
 E=967004.8243
 ELEV.=910.9783



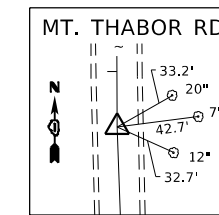
CONTROL POINT #22

ASET SPIKE
 STA. 686+80.92, 16.96 RT
 N=2031851.6288
 E=966117.0153
 ELEV.=914.3186



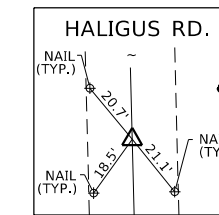
POINT #104

POT ON ~
 STA. 233+05.07, 0.00
 N=2036233.1466
 E=965190.3276
 ELEV.=914.6447



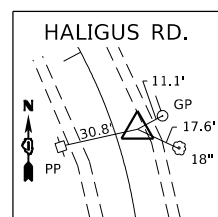
POINT #107

POT ON ~
 STA. 208+71.12, 0.00
 N=2033799.2018
 E=965195.4635
 ELEV.=911.9611



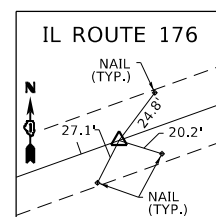
POINT #112

POT ON ~
 STA. 673+33.30, 0.00
 N=2030617.1692
 E=966525.5355
 ELEV.=911.6591



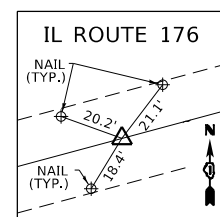
POINT #113

PI
 STA. 679+64.32, 8.78 RT
 N=2031249.6658
 E=966509.2460
 ELEV.=913.1407



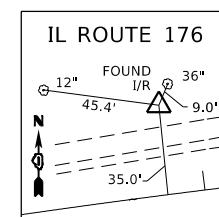
POINT #116

POT ON ~
 STA. 527+15.73, 0.00
 N=2033478.0858
 E=967869.4543
 ELEV.=



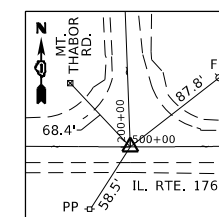
POINT #118

POT ON ~
 STA. 466+22.15, 0.00
 N=2032534.5542
 E=961897.0349
 ELEV.=921.9990



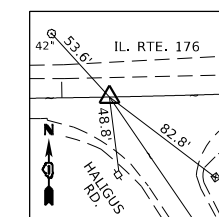
POINT #122

FOUND IRON ROD (PI)
 STA. 481+86.38, 35.14 LT
 N=2032941.5627
 E=963410.6587
 ELEV.=921.9997



POINT #127

~ ~ IL 176 AND
 MT. THABOR RD.
 STA. 500+00.00, 0.00
 N=2032928.6689
 E=965227.3920
 ELEV.=0.0000



POINT #128

~ ~ IL 176 AND
 HALIGUS RD.
 STA. 501+29.64, 0.00
 N=2032929.8884
 E=965357.0225
 ELEV.=0.0000

BENCHMARK #1

ELEV. 912.671
 TOP OF BROKEN R.O.W.
 MONUMENT IN NW
 CORNER OF IL 176 AND
 MT. THABOR RD.

BENCHMARK #2

ELEV. = 909.802
 -CUT IN CENTER OF 8'
 HEADWALL ON NORTH
 SIDE OF IL 176. | 1700'
 EAST OF MT. THABOR RD.

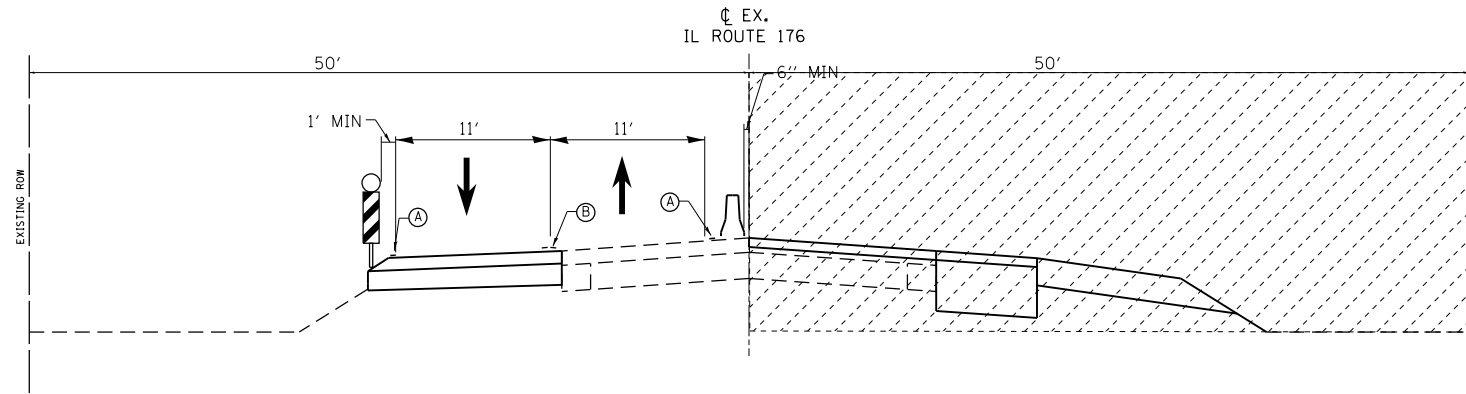
BENCHMARK #3

ELEV. 915.590
 RR SPIKE IN P. POLE WEST
 SIDE OF MT. THABOR RD.
 | 1475' N. OF IL 176

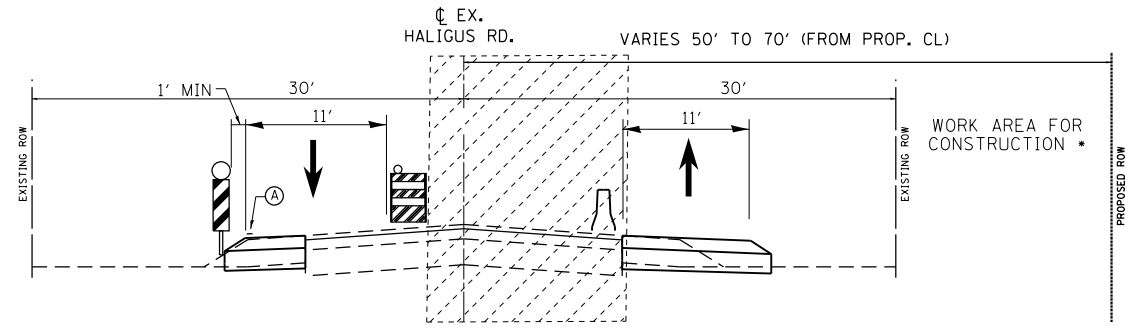
BENCHMARK #4

ELEV. 918.398
 "X" -CUT IN NORTHERLY BOLT OF
 FIRE HYDRANT IN NW CORNER
 OF IL 176 AND BRYN MAWR LN.
 | 1300' W. OF MT. THABOR RD.

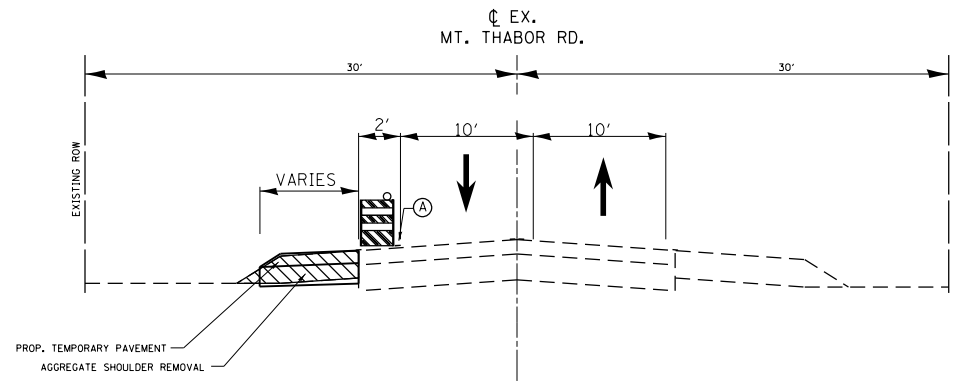
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					ILLINOIS FED. AID PROJECT							



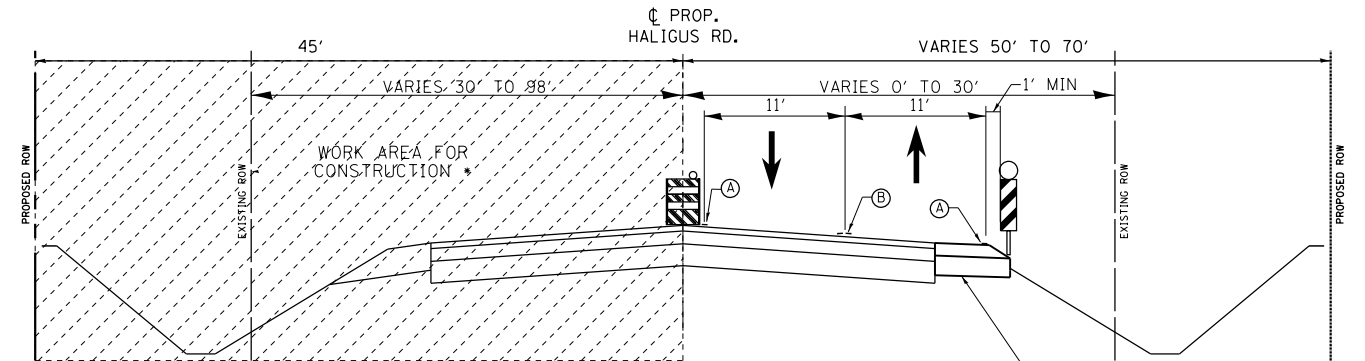
**IL 176
EXISTING TYPICAL SECTION
STAGE 2**



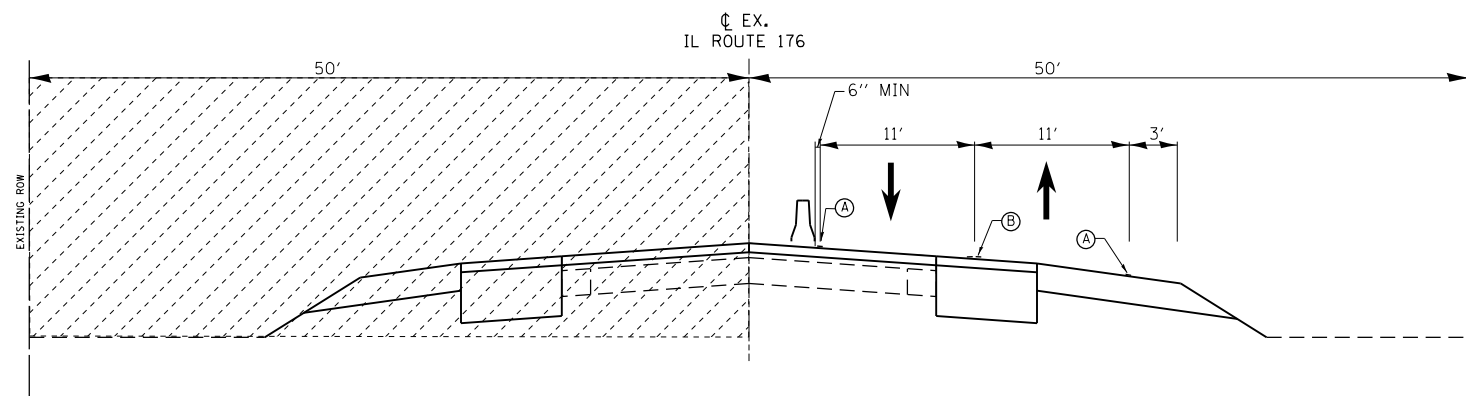
**HALIGUS RD.
EXISTING TYPICAL SECTION
STAGE 2**



**MT. THABOR RD.
EXISTING TYPICAL SECTION
STAGE 2**



**HALIGUS RD.
PROPOSED TYPICAL SECTION
STAGE 3**



**IL 176
EXISTING TYPICAL SECTION
STAGE 3**

• NOTE: SEE ROADWAY TYPICAL SECTIONS FOR DETAILED PROPOSED TYPICAL SECTION

LEGEND:			
(A)	TEMPORARY PAVEMENT MARKING, TYPE III 4" SOLID WHITE EDGE LINE		DOUBLE VERTICAL PANEL PLACED 50' CENTERS ALONG TANGENT SECTIONS, IN TAPER (20 FT C-C) IN CURVES & RADII (25 FT C-C) WITH STEADY BURN BI-DIRECTIONAL LIGHTS
(B)	TEMPORARY PAVEMENT MARKING, TYPE III 4" SOLID DOUBLE YELLOW @ 11" C-C		TEMPORARY CONCRETE BARRIER
	WORK ZONE		DRUMS OR TY II BARRICADE AT 50 FT SPACING DEVICES IN TAPER (20 FT C-C) DEVICES IN CURVES & RADII (25 FT C-C) WITH STEADY BURN BI-DIRECTIONAL LIGHTS
	SHOULDER REMOVAL		

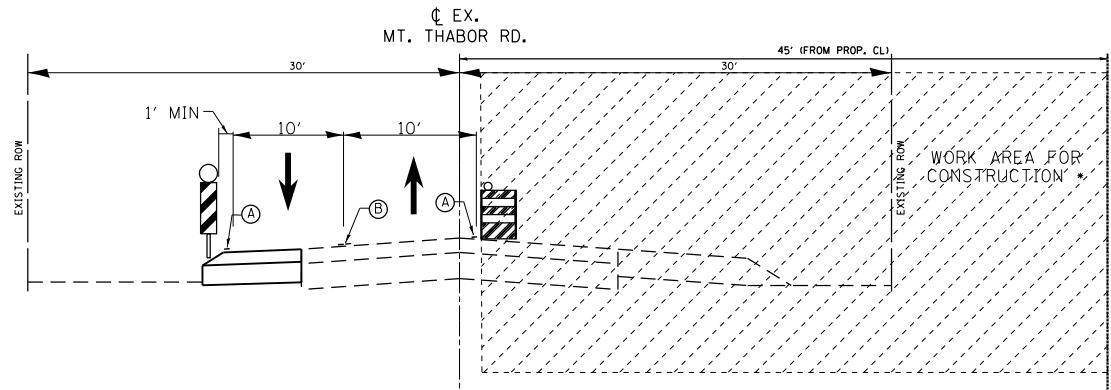
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PLOT DATE = 3/22/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL 176 AT HALIGUS ROAD AND MT. THABOR ROAD MAINTENANCE OF TRAFFIC TYPICALS			
SCALE:	SHEET 2	OF 3	SHEETS STA. TO STA.

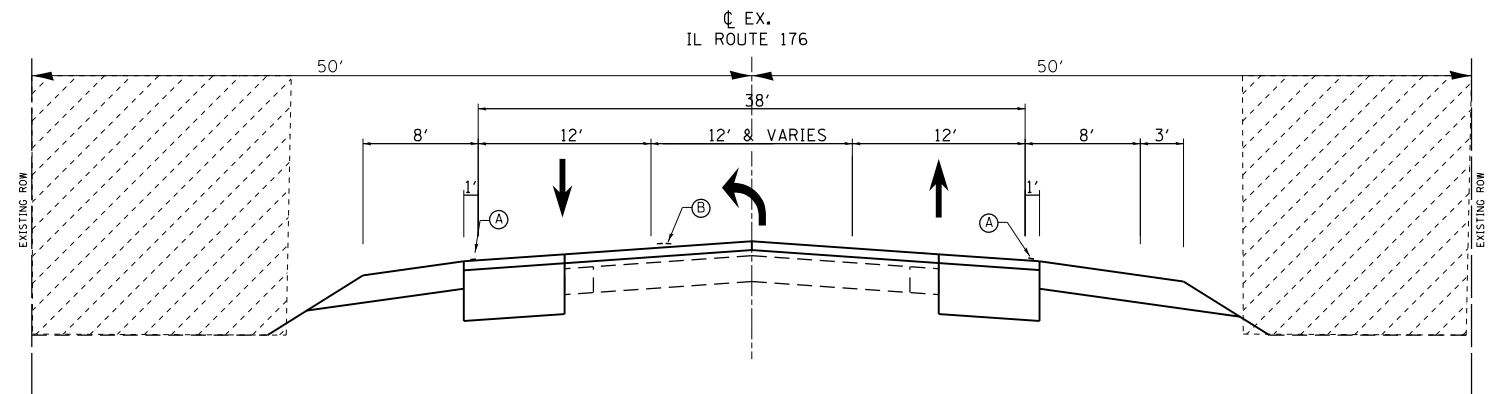
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	120N-4	MCHENRY	126	20
CONTRACT NO. 62C06				
ILLINOIS FED. AID PROJECT				



**MT. THABOR RD.
EXISTING TYPICAL SECTION**

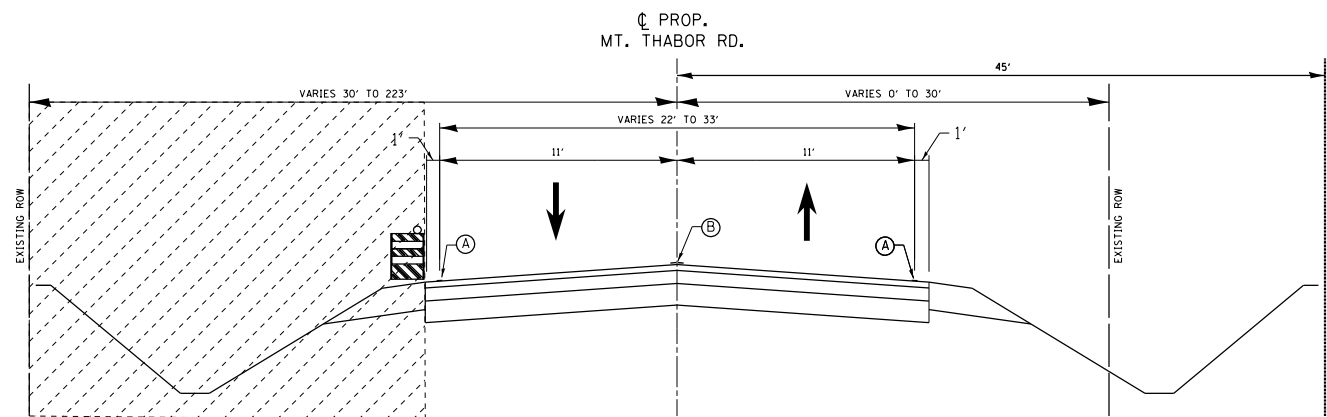
STAGE 3

TRAFFIC PATTERN VARRIES
ONE LANE TRAFFIC FROM STA. 206+50 TO STA. 211+50 (EXIST CL)
WITH TEMP. SIGNALS. SEE STAGE 3 PLAN SHEET



**IL 176
EXISTING TYPICAL SECTION**

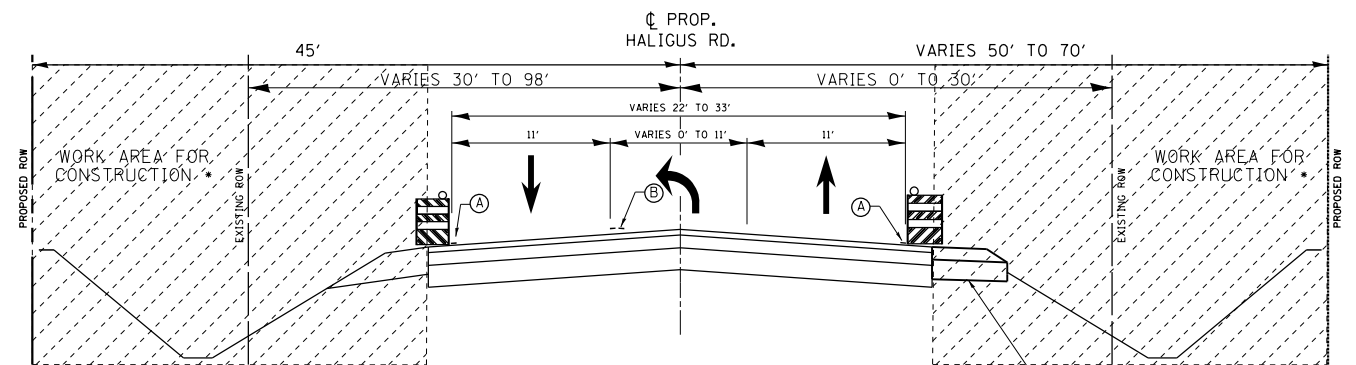
STAGE 4



**MT. THABOR RD.
PROPOSED TYPICAL SECTION**

STAGE 4

ONE LANE TRAFFIC FROM STA. 115+00 TO STA. 210+00
WITH TEMP. SIGNALS. SEE STAGE 4 PLAN SHEET
EX. MT. THABOR RD. ACCESS TO BE REMOVED AFTER
THE PROPOSED DRIVEWAY ACCESS IS COMPLETED



**HALIGUS RD.
PROPOSED TYPICAL SECTION**

STAGE 4

• NOTE: SEE ROADWAY TYPICAL SECTIONS
FOR DETAILED PROPOSED TYPICAL SECTION

NOTE FOR SIGN ASSEMBLY WITH SOLAR FLASHERS AT EB & WB IL 176:
FOR STAGES 1-3: THE SIGN ASSEMBLY SHALL BE RELOCATED AND MAINTAINED
THIS SHALL BE PAID BY - 'MAINTENANCE OF EXISTING FLASHING BEACON INSTALLATION'
FOR STAGE 4: THE SIGN ASSEMBLY SHALL BE REMOVED
THIS SHALL BE PAID BY - 'REMOVE EXISTING FLASHING BEACON INSTALLATION COMPLETE'

LEGEND:

(A)	TEMPORARY PAVEMENT MARKING, TYPE III 4" SOLID WHITE EDGE LINE		DOUBLE VERTICAL PANEL PLACED 50' CENTERS ALONG TANGENT SECTIONS. IN TAPER (20 FT C-C) IN CURVES & RADII (25 FT C-C) WITH STEADY BURN BI-DIRECTIONAL LIGHTS
(B)	TEMPORARY PAVEMENT MARKING, TYPE III 4" SOLID DOUBLE YELLOW @ 11" C-C		TEMPORARY CONCRETE BARRIER
	WORK ZONE		DRUMS OR TY II BARRICADE AT 50 FT SPACING DEVICES IN TAPER (20 FT C-C) DEVICES IN CURVES & RADII (25 FT C-C) WITH STEADY BURN BI-DIRECTIONAL LIGHTS
	SHOULDER REMOVAL		

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DATE: 3/22/2019

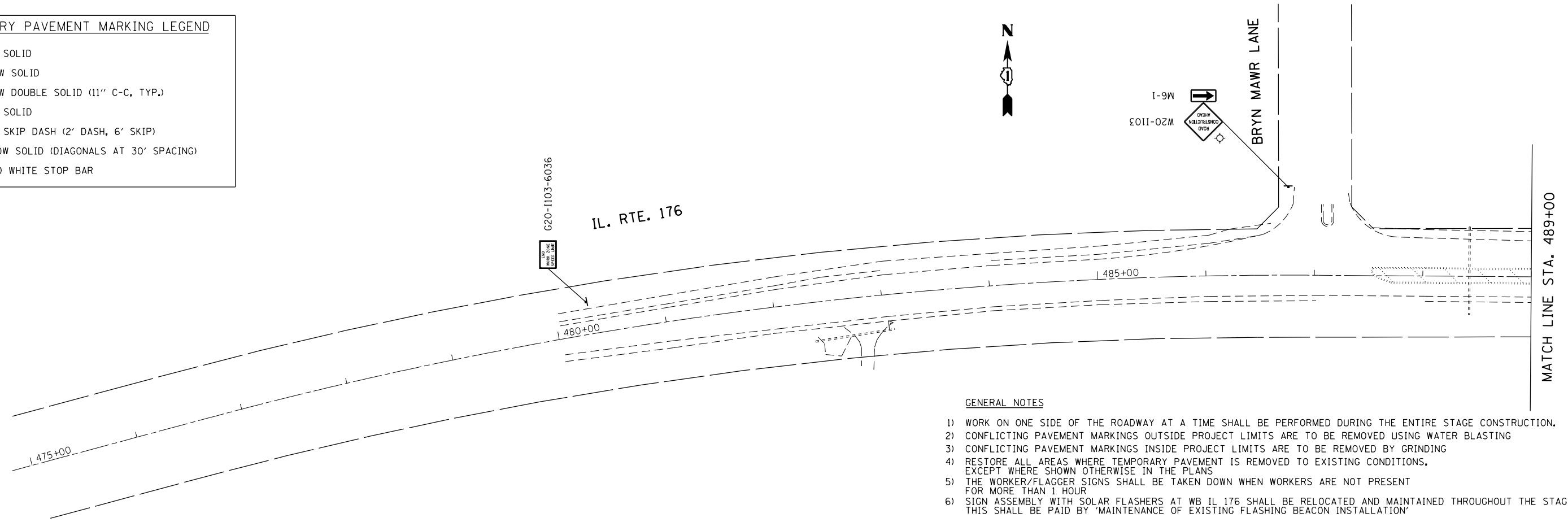
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PLOT DATE = 3/22/2019	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL 176 AT HALIGUS ROAD AND MT. THABOR ROAD MAINTENANCE OF TRAFFIC TYPICALS		F.A.P. RTE. 335	SECTION 120N-4	COUNTY MCHENRY	TOTAL SHEETS 126	SHEET NO. 21
SCALE:	SHEET 3 OF 3 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 62C06						

TEMPORARY PAVEMENT MARKING LEGEND

- ① 4" WHITE SOLID
- ② 4" YELLOW SOLID
- ③ 4" YELLOW DOUBLE SOLID (11" C-C, TYP.)
- ④ 6" WHITE SOLID
- ⑤ 6" WHITE SKIP DASH (2' DASH, 6' SKIP)
- ⑥ 12" YELLOW SOLID (DIAGONALS AT 30° SPACING)
- ⑦ 24" SOLID WHITE STOP BAR

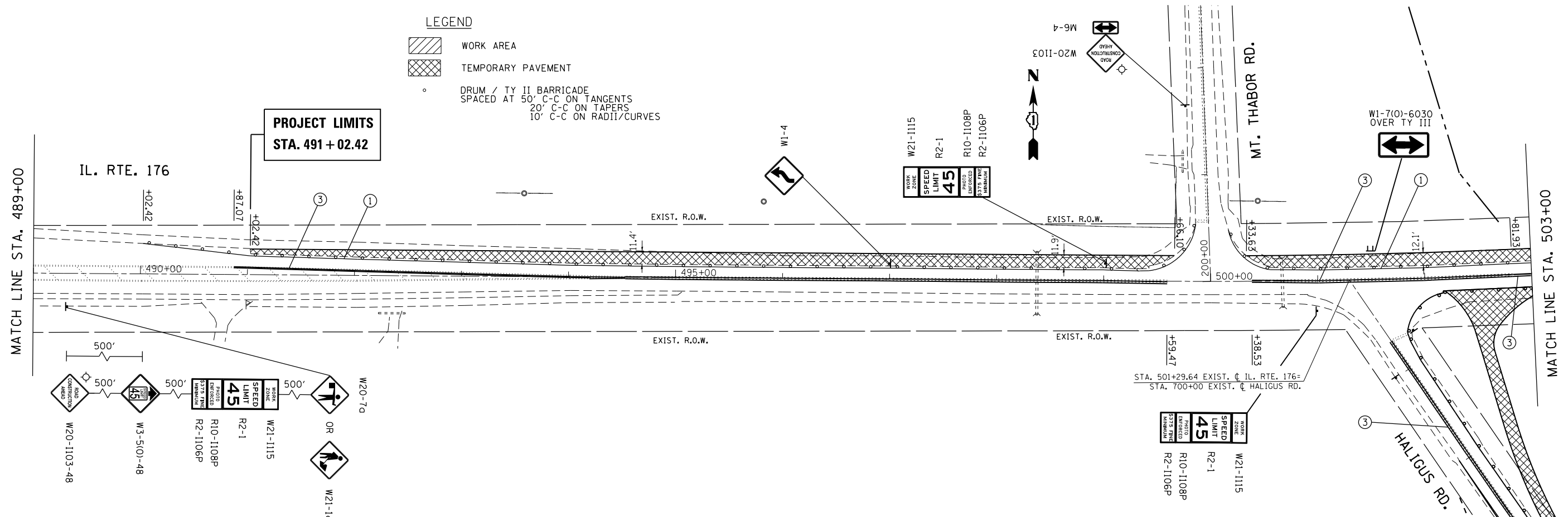


GENERAL NOTES

- 1) WORK ON ONE SIDE OF THE ROADWAY AT A TIME SHALL BE PERFORMED DURING THE ENTIRE STAGE CONSTRUCTION.
- 2) CONFLICTING PAVEMENT MARKINGS OUTSIDE PROJECT LIMITS ARE TO BE REMOVED USING WATER BLASTING
- 3) CONFLICTING PAVEMENT MARKINGS INSIDE PROJECT LIMITS ARE TO BE REMOVED BY GRINDING
- 4) RESTORE ALL AREAS WHERE TEMPORARY PAVEMENT IS REMOVED TO EXISTING CONDITIONS, EXCEPT WHERE SHOWN OTHERWISE IN THE PLANS
- 5) THE WORKER/FLAGGER SIGNS SHALL BE TAKEN DOWN WHEN WORKERS ARE NOT PRESENT FOR MORE THAN 1 HOUR
- 6) SIGN ASSEMBLY WITH SOLAR FLASHERS AT WB IL 176 SHALL BE RELOCATED AND MAINTAINED THROUGHOUT THE STAGING. THIS SHALL BE PAID BY MAINTENANCE OF EXISTING FLASHING BEACON INSTALLATION

LEGEND

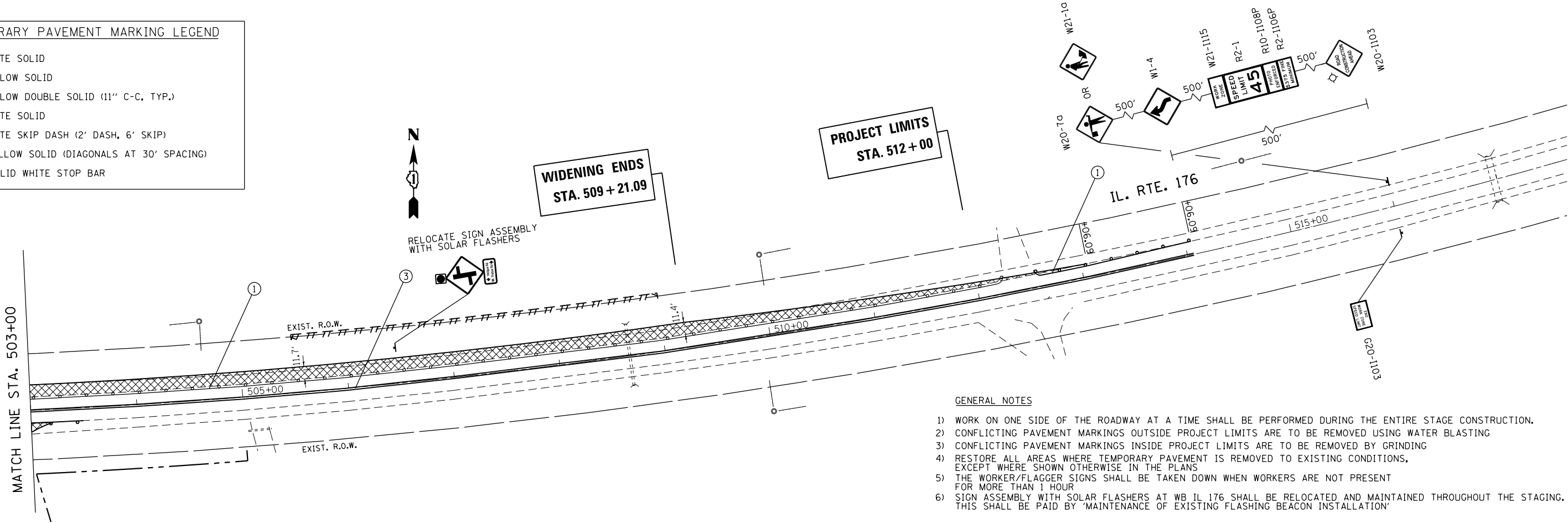
- WORK AREA
- TEMPORARY PAVEMENT
- DRUM / TY II BARRICADE
SPACED AT 50' C-C ON TANGENTS
20' C-C ON TAPERS
10' C-C ON RADII/CURVES



FILE NAME = p:\planroom.dot\illinois.gov\PIDOT\Documents\IDOT Offices\District 1\Projects\P15771\Drawings\Design\P15771-11-shl-staging1.dgn	USER NAME = Bilgromiso	DESIGNED - SB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 176 AT HALIGUS ROAD AND MT. THABOR ROAD MAINTENANCE OF TRAFFIC (STAGE 1)	F.A.P. RTE. 335	SECTION 120N-4	COUNTY MCHENRY	TOTAL SHEETS 126	SHEET NO. 22
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -			SCALE: 1" = 50'	SHEET 1 OF 2 SHEETS	STA. TO STA.	CONTRACT NO. 62C06	
Default	PLOT DATE = 3/22/2019	DATE = 8/24/2018	REVISED -	ILLINOIS FED. AID PROJECT						

TEMPORARY PAVEMENT MARKING LEGEND

- ① 4" WHITE SOLID
- ② 4" YELLOW SOLID
- ③ 4" YELLOW DOUBLE SOLID (11" C-C, TYP.)
- ④ 6" WHITE SOLID
- ⑤ 6" WHITE SKIP DASH (2' DASH, 6' SKIP)
- ⑥ 12" YELLOW SOLID (DIAGONALS AT 30° SPACING)
- ⑦ 24" SOLID WHITE STOP BAR

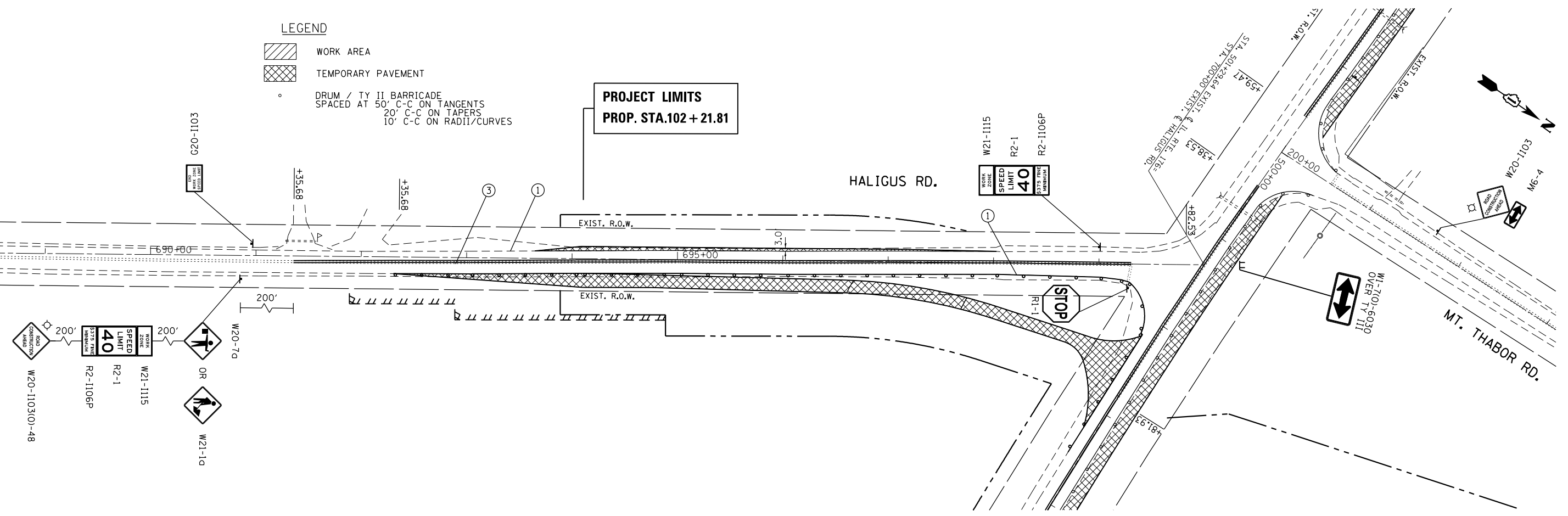


GENERAL NOTES

- 1) WORK ON ONE SIDE OF THE ROADWAY AT A TIME SHALL BE PERFORMED DURING THE ENTIRE STAGE CONSTRUCTION.
- 2) CONFLICTING PAVEMENT MARKINGS OUTSIDE PROJECT LIMITS ARE TO BE REMOVED USING WATER BLASTING
- 3) CONFLICTING PAVEMENT MARKINGS INSIDE PROJECT LIMITS ARE TO BE REMOVED BY GRINDING
- 4) RESTORE ALL AREAS WHERE TEMPORARY PAVEMENT IS REMOVED TO EXISTING CONDITIONS, EXCEPT WHERE SHOWN OTHERWISE IN THE PLANS
- 5) THE WORKER/FLAGGER SIGNS SHALL BE TAKEN DOWN WHEN WORKERS ARE NOT PRESENT FOR MORE THAN 1 HOUR
- 6) SIGN ASSEMBLY WITH SOLAR FLASHERS AT WB IL 176 SHALL BE RELOCATED AND MAINTAINED THROUGHOUT THE STAGING. THIS SHALL BE PAID BY MAINTENANCE OF EXISTING FLASHING BEACON INSTALLATION

LEGEND

- WORK AREA
- TEMPORARY PAVEMENT
- DRUM / TY II BARRICADE
SPACED AT 50' C-C ON TANGENTS
20' C-C ON TAPERS
10' C-C ON RADII/CURVES



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Default	PLOT DATE = 3/22/2019	DATE - 8/24/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 176 AT HALIGUS ROAD AND MT. THABOR ROAD MAINTENANCE OF TRAFFIC (STAGE 1)			
SCALE: 1" = 50'	SHEET 2	OF 2 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	120N-4	MCHENRY	126	23
CONTRACT NO. 62C06				
ILLINOIS FED. AID PROJECT				

TEMPORARY PAVEMENT MARKING LEGEND

- ① 4" WHITE SOLID
- ② 4" YELLOW SOLID
- ③ 4" YELLOW DOUBLE SOLID (11" C-C, TYP.)
- ④ 6" WHITE SOLID
- ⑤ 6" WHITE SKIP DASH (2' DASH, 6' SKIP)
- ⑥ 12" YELLOW SOLID (DIAGONALS AT 30° SPACING)
- ⑦ 24" SOLID WHITE STOP BAR

LEGEND

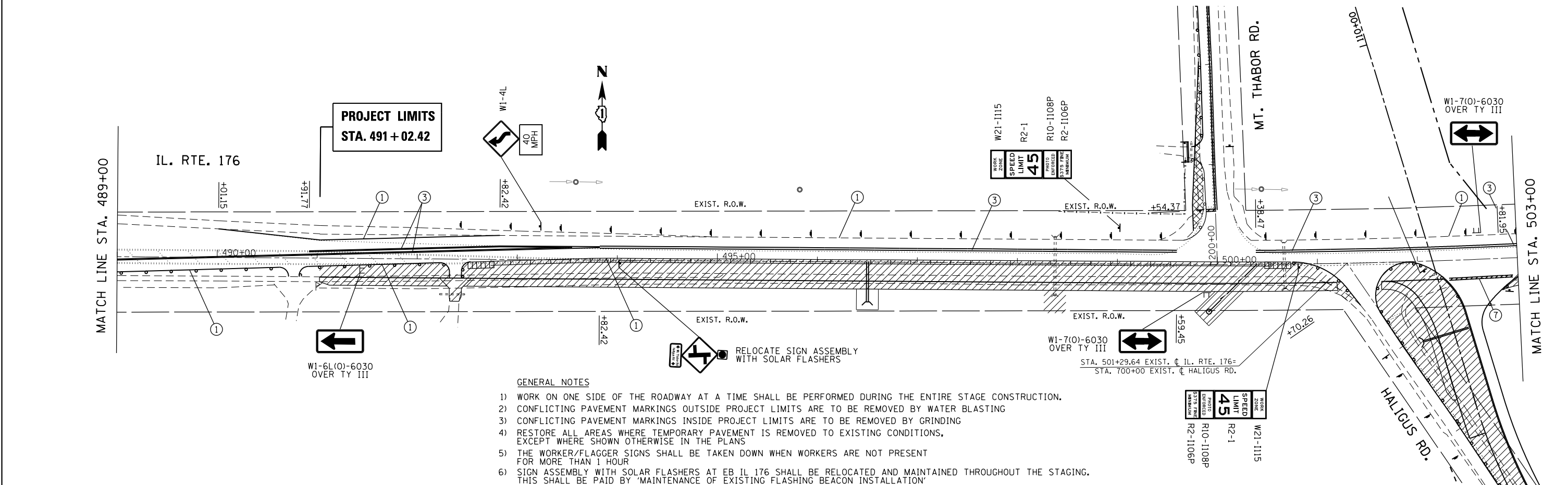
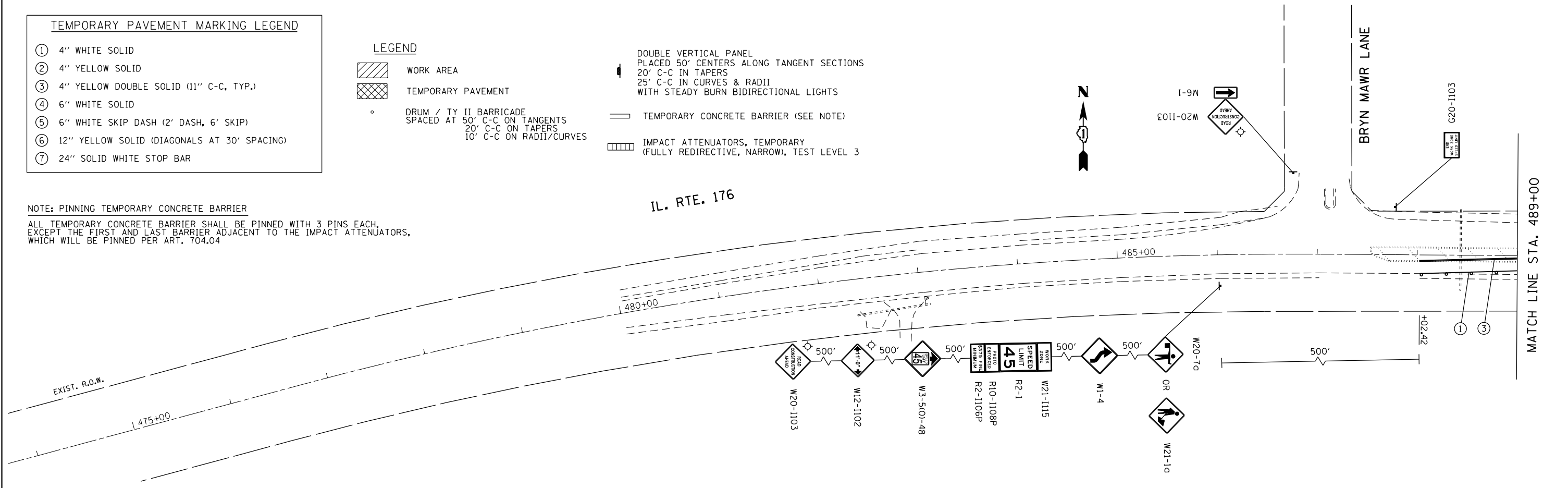
- WORK AREA
- TEMPORARY PAVEMENT

DRUM / TY II BARRICADE
SPACED AT 50' C-C ON TANGENTS
20' C-C ON TAPERS
10' C-C ON RADII/CURVES

- DOUBLE VERTICAL PANEL
PLACED 50' CENTERS ALONG TANGENT SECTIONS
20' C-C IN TAPERS
25' C-C IN CURVES & RADII
WITH STEADY BURN BIDIRECTIONAL LIGHTS
- TEMPORARY CONCRETE BARRIER (SEE NOTE)
- IMPACT ATTENUATORS, TEMPORARY
(FULLY REDIRECTIVE, NARROW), TEST LEVEL 3

NOTE: PINNING TEMPORARY CONCRETE BARRIER

ALL TEMPORARY CONCRETE BARRIER SHALL BE PINNED WITH 3 PINS EACH, EXCEPT THE FIRST AND LAST BARRIER ADJACENT TO THE IMPACT ATTENUATORS, WHICH WILL BE PINNED PER ART. 704.04



GENERAL NOTES

- 1) WORK ON ONE SIDE OF THE ROADWAY AT A TIME SHALL BE PERFORMED DURING THE ENTIRE STAGE CONSTRUCTION.
- 2) CONFLICTING PAVEMENT MARKINGS OUTSIDE PROJECT LIMITS ARE TO BE REMOVED BY WATER BLASTING
- 3) CONFLICTING PAVEMENT MARKINGS INSIDE PROJECT LIMITS ARE TO BE REMOVED BY GRINDING
- 4) RESTORE ALL AREAS WHERE TEMPORARY PAVEMENT IS REMOVED TO EXISTING CONDITIONS, EXCEPT WHERE SHOWN OTHERWISE IN THE PLANS
- 5) THE WORKER/FLAGGER SIGNS SHALL BE TAKEN DOWN WHEN WORKERS ARE NOT PRESENT FOR MORE THAN 1 HOUR
- 6) SIGN ASSEMBLY WITH SOLAR FLASHERS AT EB IL 176 SHALL BE RELOCATED AND MAINTAINED THROUGHOUT THE STAGING. THIS SHALL BE PAID BY MAINTENANCE OF EXISTING FLASHING BEACON INSTALLATION

FILE NAME =	USER NAME = Bilgromiso	DESIGNED - SB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 176 AT HALIGUS ROAD AND MT. THABOR ROAD MAINTENANCE OF TRAFFIC (STAGE 2)	F.A.P. RTE. 335	SECTION 120N-4	COUNTY MCHENRY	TOTAL SHEETS 126	SHEET NO. 24		
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	PLOT DATE = 3/22/2019											

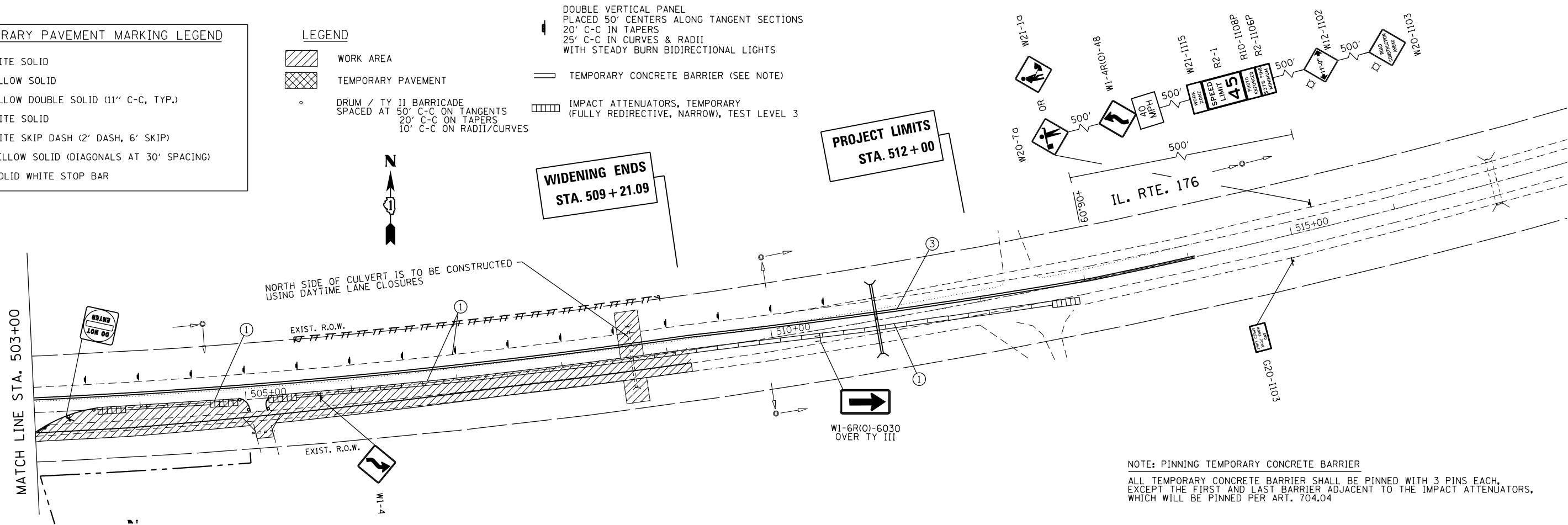
TEMPORARY PAVEMENT MARKING LEGEND

①	4" WHITE SOLID
②	4" YELLOW SOLID
③	4" YELLOW DOUBLE SOLID (11" C-C, TYP.)
④	6" WHITE SOLID
⑤	6" WHITE SKIP DASH (2' DASH, 6' SKIP)
⑥	12" YELLOW SOLID (DIAGONALS AT 30° SPACING)
⑦	24" SOLID WHITE STOP BAR

LEGEND

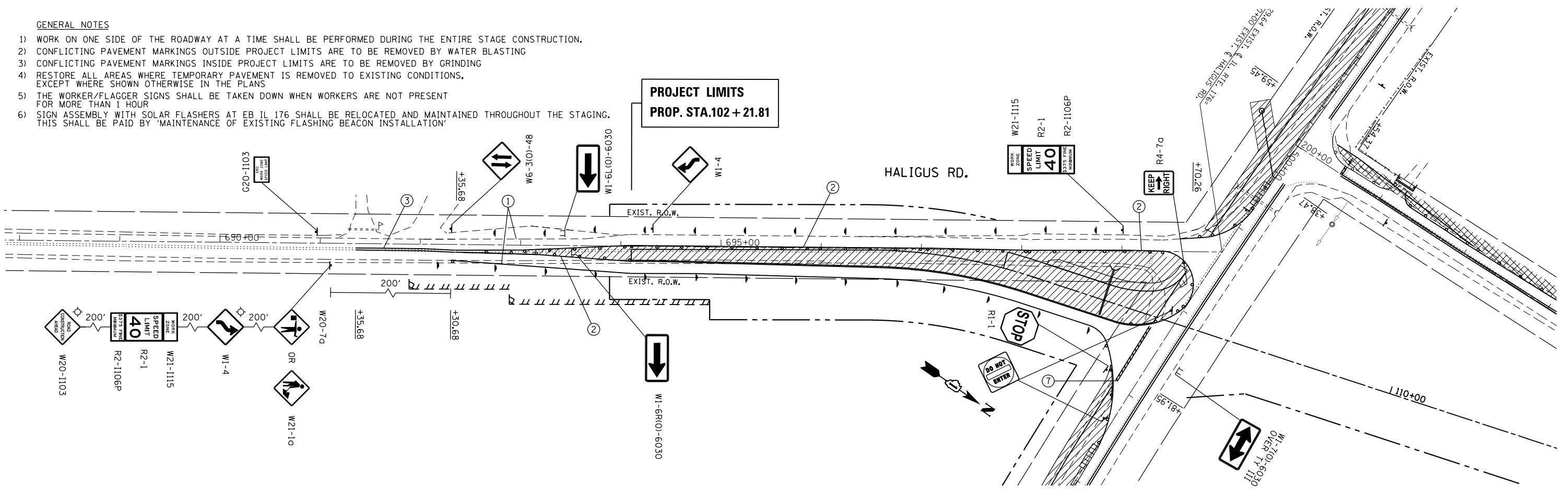
	WORK AREA
	TEMPORARY PAVEMENT
	DRUM / TY II BARRICADE SPACED AT 50' C-C ON TANGENTS 20' C-C ON TAPERS 10' C-C ON RADII/CURVES
	TEMPORARY CONCRETE BARRIER (SEE NOTE)
	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3

DOUBLE VERTICAL PANEL
PLACED 50' CENTERS ALONG TANGENT SECTIONS
20' C-C IN TAPERS
25' C-C IN CURVES & RADII
WITH STEADY BURN BIDIRECTIONAL LIGHTS



NOTE: PINNING TEMPORARY CONCRETE BARRIER
ALL TEMPORARY CONCRETE BARRIER SHALL BE PINNED WITH 3 PINS EACH,
EXCEPT THE FIRST AND LAST BARRIER ADJACENT TO THE IMPACT ATTENUATORS,
WHICH WILL BE PINNED PER ART. 704.04

- GENERAL NOTES**
- 1) WORK ON ONE SIDE OF THE ROADWAY AT A TIME SHALL BE PERFORMED DURING THE ENTIRE STAGE CONSTRUCTION.
 - 2) CONFLICTING PAVEMENT MARKINGS OUTSIDE PROJECT LIMITS ARE TO BE REMOVED BY WATER BLASTING
 - 3) CONFLICTING PAVEMENT MARKINGS INSIDE PROJECT LIMITS ARE TO BE REMOVED BY GRINDING
 - 4) RESTORE ALL AREAS WHERE TEMPORARY PAVEMENT IS REMOVED TO EXISTING CONDITIONS, EXCEPT WHERE SHOWN OTHERWISE IN THE PLANS
 - 5) THE WORKER/FLAGGER SIGNS SHALL BE TAKEN DOWN WHEN WORKERS ARE NOT PRESENT FOR MORE THAN 1 HOUR
 - 6) SIGN ASSEMBLY WITH SOLAR FLASHERS AT EB IL 176 SHALL BE RELOCATED AND MAINTAINED THROUGHOUT THE STAGING. THIS SHALL BE PAID BY 'MAINTENANCE OF EXISTING FLASHING BEACON INSTALLATION'



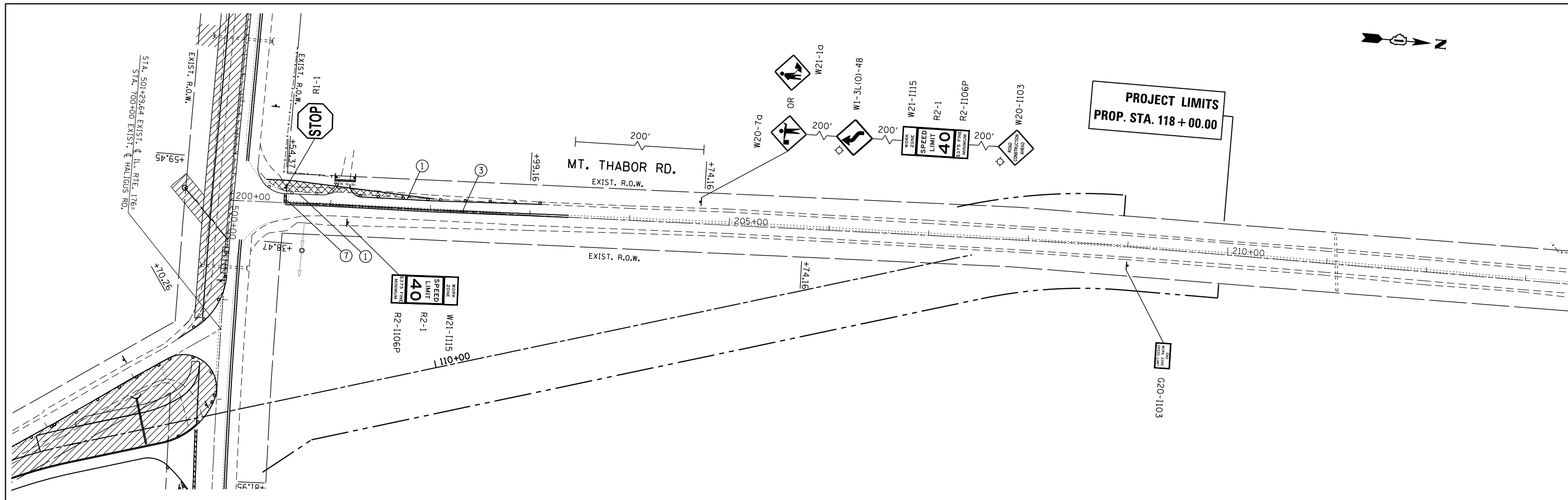
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 176 AT HALIGUS ROAD AND MT. THABOR ROAD
MAINTENANCE OF TRAFFIC (STAGE 2)**

SCALE: 1" = 50' SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	120N-4	MCHENRY	126	25
CONTRACT NO. 62C06				
ILLINOIS FED. AID PROJECT				



TEMPORARY PAVEMENT MARKING LEGEND

①	4" WHITE SOLID
②	4" YELLOW SOLID
③	4" YELLOW DOUBLE SOLID (11" C-C, TYP.)
④	6" WHITE SOLID
⑤	6" WHITE SKIP DASH (2' DASH, 6' SKIP)
⑥	12" YELLOW SOLID (DIAGONALS AT 30' SPACING)
⑦	24" SOLID WHITE STOP BAR

- GENERAL NOTES**
- 1) WORK ON ONE SIDE OF THE ROADWAY AT A TIME SHALL BE PERFORMED DURING THE ENTIRE STAGE CONSTRUCTION.
 - 2) CONFLICTING PAVEMENT MARKINGS OUTSIDE PROJECT LIMITS ARE TO BE REMOVED BY WATER BLASTING
 - 3) CONFLICTING PAVEMENT MARKINGS INSIDE PROJECT LIMITS ARE TO BE REMOVED BY GRINDING
 - 4) RESTORE ALL AREAS WHERE TEMPORARY PAVEMENT IS REMOVED TO EXISTING CONDITIONS, EXCEPT WHERE SHOWN OTHERWISE IN THE PLANS
 - 5) THE WORKER/FLAGGER SIGNS SHALL BE TAKEN DOWN WHEN WORKERS ARE NOT PRESENT FOR MORE THAN 1 HOUR
 - 6) SIGN ASSEMBLY WITH SOLAR FLASHERS AT EB IL 176 SHALL BE RELOCATED AND MAINTAINED THROUGHOUT THE STAGING. THIS SHALL BE PAID BY 'MAINTENANCE OF EXISTING FLASHING BEACON INSTALLATION'

LEGEND

	WORK AREA		DOUBLE VERTICAL PANEL PLACED 50' CENTERS ALONG TANGENT SECTIONS 20' C-C IN TAPERS 25' C-C IN CURVES & RADII WITH STEADY BURN BIDIRECTIONAL LIGHTS
	TEMPORARY PAVEMENT		TEMPORARY CONCRETE BARRIER (SEE NOTE)
	DRUM / TY II BARRICADE SPACED AT 50' C-C ON TANGENTS 20' C-C ON TAPERS 10' C-C ON RADII/CURVES		IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3




NOTE: PINNING TEMPORARY CONCRETE BARRIER
ALL TEMPORARY CONCRETE BARRIER SHALL BE PINNED WITH 3 PINS EACH, EXCEPT THE FIRST AND LAST BARRIER ADJACENT TO THE IMPACT ATTENUATORS, WHICH WILL BE PINNED PER ART. 704.04

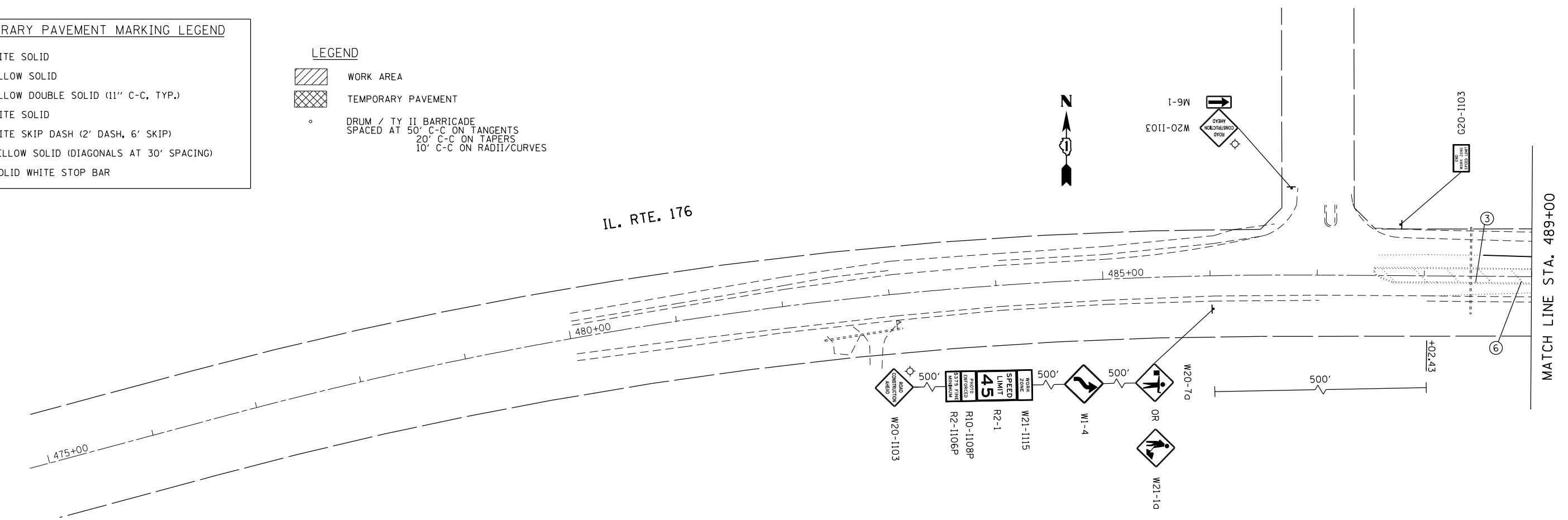
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PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -	REVISED -			CONTRACT NO. 62C06				
Default	PLOT DATE = 3/22/2019	DATE - 8/24/2018	REVISED -			SCALE: 1" = 50'	SHEET 3	OF 3 SHEETS	STA.	TO STA.

TEMPORARY PAVEMENT MARKING LEGEND

- ① 4" WHITE SOLID
- ② 4" YELLOW SOLID
- ③ 4" YELLOW DOUBLE SOLID (11" C-C, TYP.)
- ④ 6" WHITE SOLID
- ⑤ 6" WHITE SKIP DASH (2' DASH, 6' SKIP)
- ⑥ 12" YELLOW SOLID (DIAGONALS AT 30° SPACING)
- ⑦ 24" SOLID WHITE STOP BAR

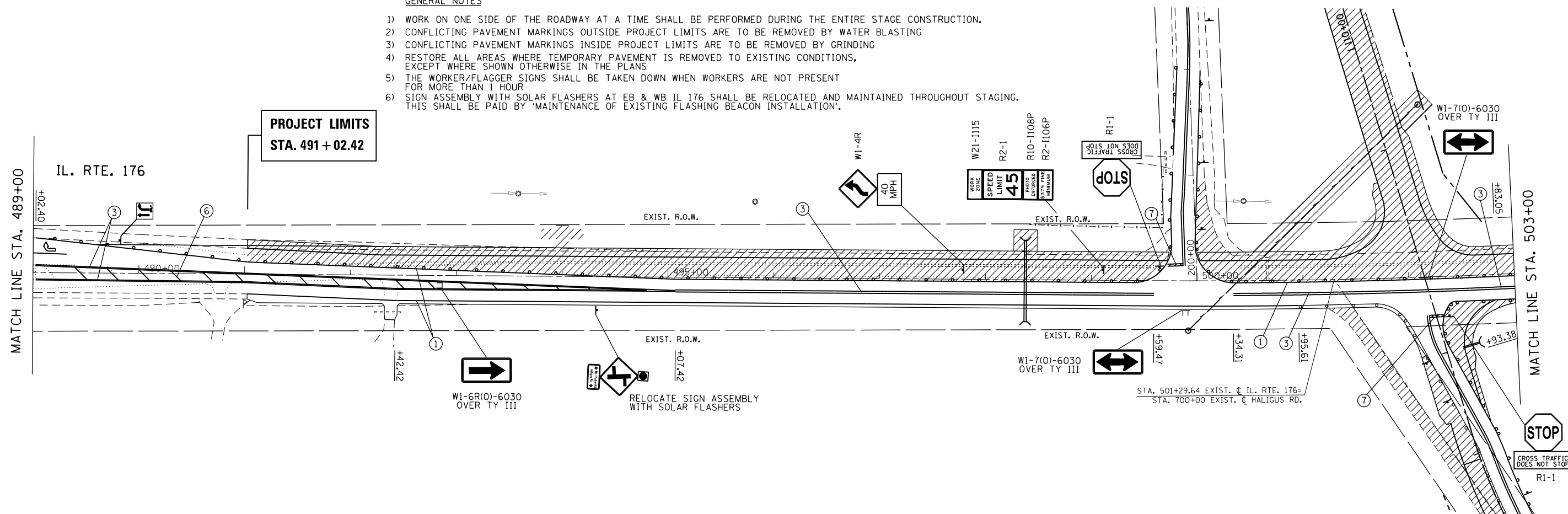
LEGEND

-  WORK AREA
-  TEMPORARY PAVEMENT
-  DRUM / TY II BARRICADE
SPACED AT 50' C-C ON TANGENTS
20' C-C ON TAPERS
10' C-C ON RADII/CURVES



GENERAL NOTES

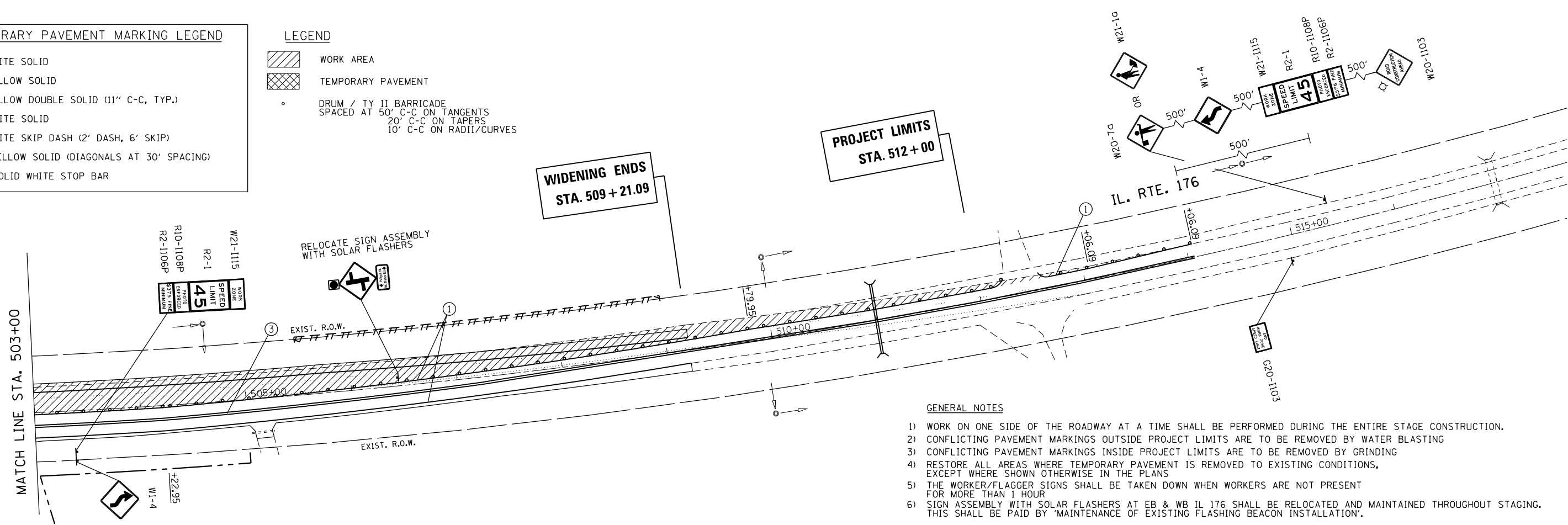
- 1) WORK ON ONE SIDE OF THE ROADWAY AT A TIME SHALL BE PERFORMED DURING THE ENTIRE STAGE CONSTRUCTION.
- 2) CONFLICTING PAVEMENT MARKINGS OUTSIDE PROJECT LIMITS ARE TO BE REMOVED BY WATER BLASTING
- 3) CONFLICTING PAVEMENT MARKINGS INSIDE PROJECT LIMITS ARE TO BE REMOVED BY GRINDING
- 4) RESTORE ALL AREAS WHERE TEMPORARY PAVEMENT IS REMOVED TO EXISTING CONDITIONS, EXCEPT WHERE SHOWN OTHERWISE IN THE PLANS
- 5) THE WORKER/FLAGGER SIGNS SHALL BE TAKEN DOWN WHEN WORKERS ARE NOT PRESENT FOR MORE THAN 1 HOUR
- 6) SIGN ASSEMBLY WITH SOLAR FLASHERS AT EB & WB IL 176 SHALL BE RELOCATED AND MAINTAINED THROUGHOUT STAGING. THIS SHALL BE PAID BY 'MAINTENANCE OF EXISTING FLASHING BEACON INSTALLATION'.



FILE NAME =	USER NAME = Bilgromiso	DESIGNED - SB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 176 AT HALIGUS ROAD AND MT. THABOR ROAD MAINTENANCE OF TRAFFIC (STAGE 3)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw:\planroom.dot.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\PI5771\DRAWING\Design\PI5771-11-sh.t.staging3.dgn		CHECKED -	REVISED -			335	120N-4	MCHENRY	126	27	
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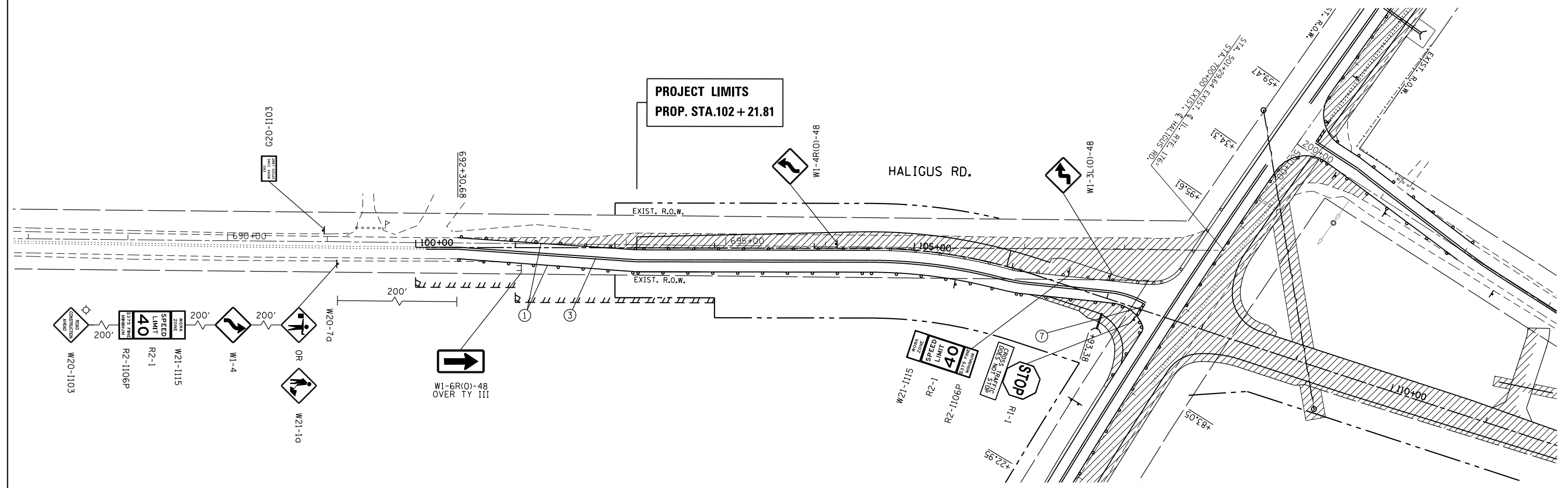
TEMPORARY PAVEMENT MARKING LEGEND	
①	4" WHITE SOLID
②	4" YELLOW SOLID
③	4" YELLOW DOUBLE SOLID (11" C-C, TYP.)
④	6" WHITE SOLID
⑤	6" WHITE SKIP DASH (2' DASH, 6' SKIP)
⑥	12" YELLOW SOLID (DIAGONALS AT 30° SPACING)
⑦	24" SOLID WHITE STOP BAR

LEGEND	
	WORK AREA
	TEMPORARY PAVEMENT
	DRUM / TY II BARRICADE SPACED AT 50' C-C ON TANGENTS 20' C-C ON TAPERS 10' C-C ON RADII/CURVES

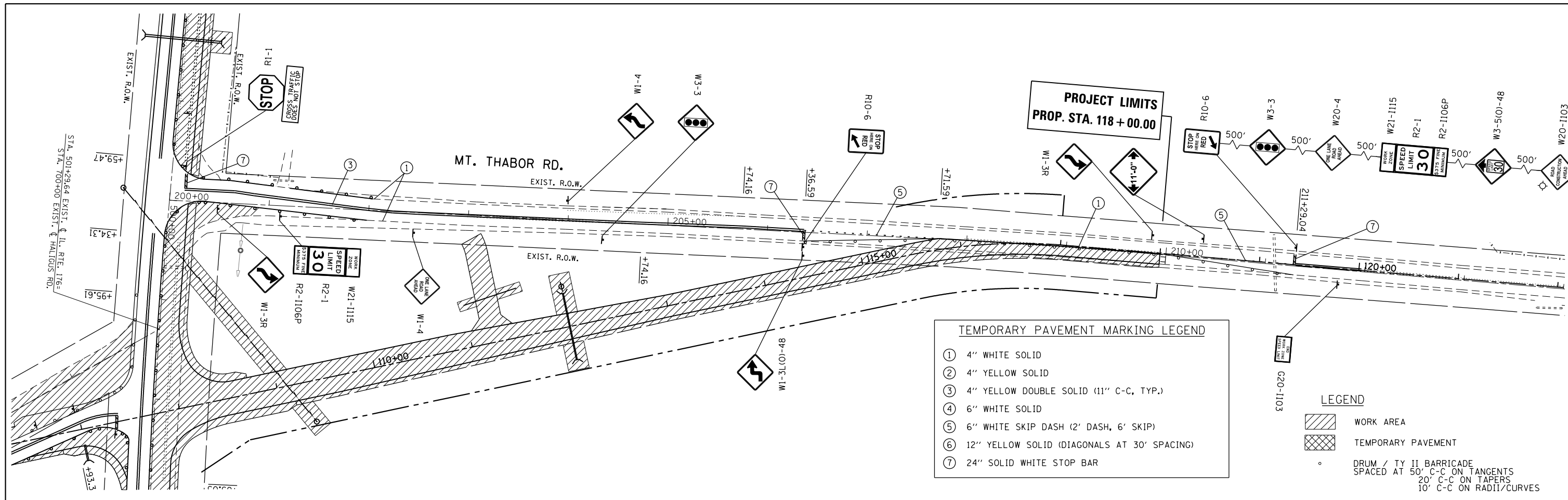


GENERAL NOTES

- 1) WORK ON ONE SIDE OF THE ROADWAY AT A TIME SHALL BE PERFORMED DURING THE ENTIRE STAGE CONSTRUCTION.
- 2) CONFLICTING PAVEMENT MARKINGS OUTSIDE PROJECT LIMITS ARE TO BE REMOVED BY WATER BLASTING
- 3) CONFLICTING PAVEMENT MARKINGS INSIDE PROJECT LIMITS ARE TO BE REMOVED BY GRINDING
- 4) RESTORE ALL AREAS WHERE TEMPORARY PAVEMENT IS REMOVED TO EXISTING CONDITIONS, EXCEPT WHERE SHOWN OTHERWISE IN THE PLANS
- 5) THE WORKER/FLAGGER SIGNS SHALL BE TAKEN DOWN WHEN WORKERS ARE NOT PRESENT FOR MORE THAN 1 HOUR
- 6) SIGN ASSEMBLY WITH SOLAR FLASHERS AT EB & WB IL 176 SHALL BE RELOCATED AND MAINTAINED THROUGHOUT STAGING. THIS SHALL BE PAID BY 'MAINTENANCE OF EXISTING FLASHING BEACON INSTALLATION'.



FILE NAME =	USER NAME = Bilgiris	DESIGNED - SB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 176 AT HALIGUS ROAD AND MT. THABOR ROAD MAINTENANCE OF TRAFFIC (STAGE 3)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw:\planroom.dot.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\PI5771\DRAWING\Design\PI5771-11-sht-staging3.dgn	PLotted SCALE = 100.0000' / in.	CHECKED -	REVISED -			335	120N-4	MCHENRY	126	28	
Default	PLOT DATE = 3/22/2019	DATE - 8/24/2018	REVISED -			CONTRACT NO. 62C06					
						ILLINOIS FED. AID PROJECT					



GENERAL NOTES

- 1) WORK ON ONE SIDE OF THE ROADWAY AT A TIME SHALL BE PERFORMED DURING THE ENTIRE STAGE CONSTRUCTION.
- 2) CONFLICTING PAVEMENT MARKINGS OUTSIDE PROJECT LIMITS ARE TO BE REMOVED BY WATER BLASTING
- 3) CONFLICTING PAVEMENT MARKINGS INSIDE PROJECT LIMITS ARE TO BE REMOVED BY GRINDING
- 4) RESTORE ALL AREAS WHERE TEMPORARY PAVEMENT IS REMOVED TO EXISTING CONDITIONS, EXCEPT WHERE SHOWN OTHERWISE IN THE PLANS
- 5) THE WORKER/FLAGGER SIGNS SHALL BE TAKEN DOWN WHEN WORKERS ARE NOT PRESENT FOR MORE THAN 1 HOUR
- 6) SIGN ASSEMBLY WITH SOLAR FLASHERS AT EB & WB IL 176 SHALL BE RELOCATED AND MAINTAINED THROUGHOUT STAGING. THIS SHALL BE PAID BY 'MAINTENANCE OF EXISTING FLASHING BEACON INSTALLATION'.

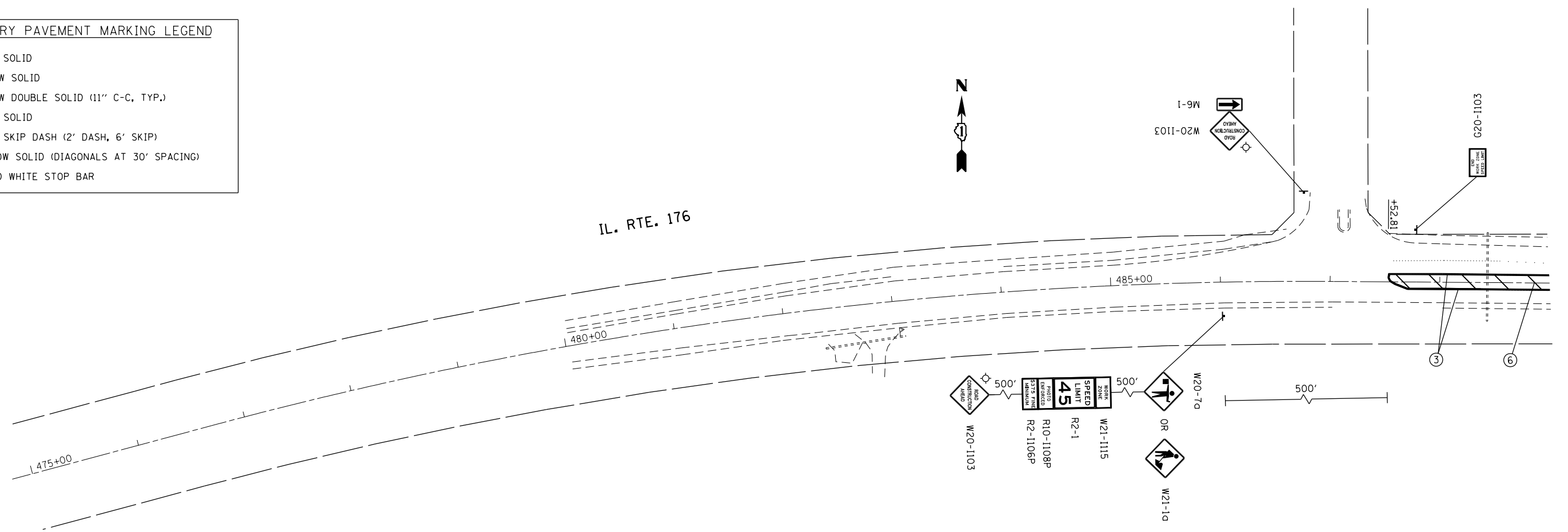
TEMPORARY TRAFFIC SIGNAL NOTE:

STAGE 3 & 4 WILL REQUIRE THE USE OF TEMPORARY TRAFFIC SIGNAL AND LIGHTING INSTALLATION FOR SINGLE LANE STAGING. ADDITIONAL EQUIPMENT WILL BE REQUIRED FOR THE TRAFFIC SIGNALS AND LIGHTING FOR SEAMLESS TRANSITION TO THE NEW ROAD ALIGNMENT IN STAGE 4. THIS WORK WILL BE PAID FOR AS A QUANTITY OF 1 UNDER THE PAY ITEMS: 'TEMPORARY BRIDGE TRAFFIC SIGNAL INSTALLATION', 'TEMPORARY TRAFFIC SIGNAL TIMING' AND 'TEMPORARY LIGHTING FOR SINGLE LANE STAGING'. DISTRICT STANDARD BE-805 SHALL BE FOLLOWED FOR INSTALLATION.

FILE NAME =	USER NAME = Bilgromiso	DESIGNED - SB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 176 AT HALIGUS ROAD AND MT.THABOR ROAD MAINTENANCE OF TRAFFIC (STAGE 3)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw:\planroom.dot.illinois.gov\PIDOT\Documents\IDOT Offices\District 1\Projects\P15771\DRAWING\Design\P15771-11-sht-staging3.dgn	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -			335	120N-4	MCHENRY	126	29	
Default	PLOT DATE = 3/22/2019	DATE - 8/24/2018	REVISED -			CONTRACT NO. 62C06					
						ILLINOIS FED. AID PROJECT					

TEMPORARY PAVEMENT MARKING LEGEND

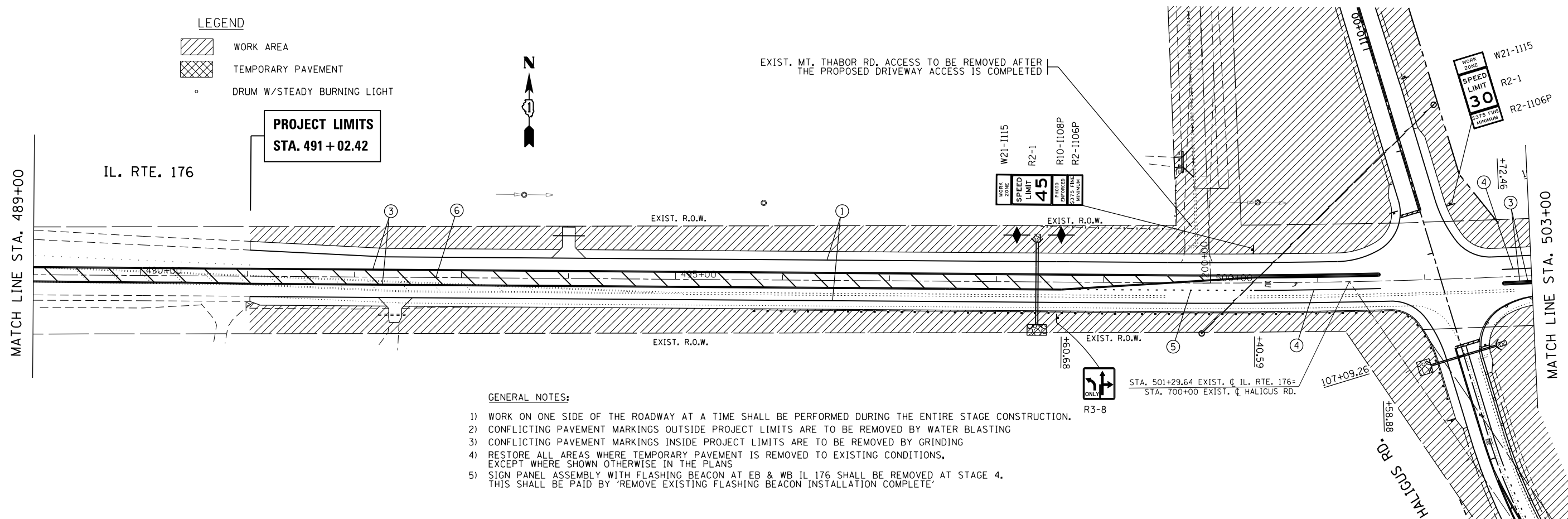
- ① 4" WHITE SOLID
- ② 4" YELLOW SOLID
- ③ 4" YELLOW DOUBLE SOLID (11" C-C, TYP.)
- ④ 6" WHITE SOLID
- ⑤ 6" WHITE SKIP DASH (2' DASH, 6' SKIP)
- ⑥ 12" YELLOW SOLID (DIAGONALS AT 30° SPACING)
- ⑦ 24" SOLID WHITE STOP BAR



LEGEND

- WORK AREA
- TEMPORARY PAVEMENT
- DRUM W/STEADY BURNING LIGHT

PROJECT LIMITS
STA. 491 + 02.42



GENERAL NOTES:

- 1) WORK ON ONE SIDE OF THE ROADWAY AT A TIME SHALL BE PERFORMED DURING THE ENTIRE STAGE CONSTRUCTION.
- 2) CONFLICTING PAVEMENT MARKINGS OUTSIDE PROJECT LIMITS ARE TO BE REMOVED BY WATER BLASTING
- 3) CONFLICTING PAVEMENT MARKINGS INSIDE PROJECT LIMITS ARE TO BE REMOVED BY GRINDING
- 4) RESTORE ALL AREAS WHERE TEMPORARY PAVEMENT IS REMOVED TO EXISTING CONDITIONS, EXCEPT WHERE SHOWN OTHERWISE IN THE PLANS
- 5) SIGN PANEL ASSEMBLY WITH FLASHING BEACON AT EB & WB IL 176 SHALL BE REMOVED AT STAGE 4. THIS SHALL BE PAID BY 'REMOVE EXISTING FLASHING BEACON INSTALLATION COMPLETE'

FILE NAME =	USER NAME = Bilgromiso	DESIGNED - SB	REVISED -
pw:\planroom.dot.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\PI5771\DRAWING\Design\PI5771-11-shl-staging4.dgn		REVISIONS	REVISED -
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

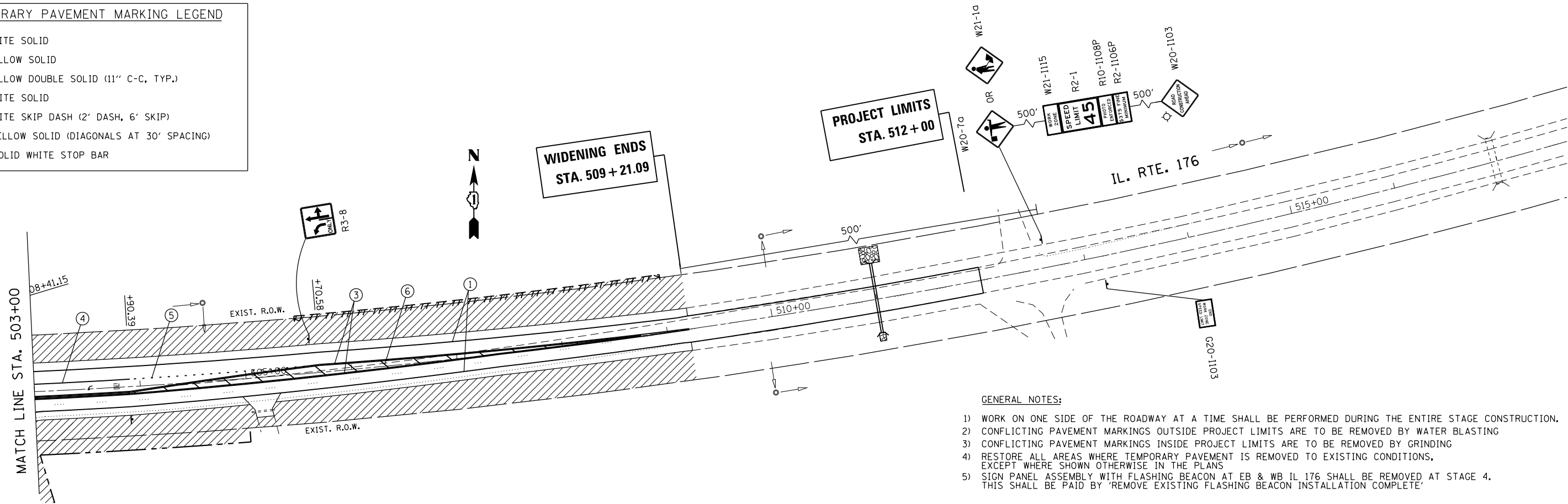
IL 176 AT HALIGUS ROAD AND MT. THABOR ROAD
MAINTENANCE OF TRAFFIC (STAGE 4)

SCALE: 1" = 50' SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	120N-4	MCHENRY	126	30
CONTRACT NO. 62C06			ILLINOIS FED. AID PROJECT	

TEMPORARY PAVEMENT MARKING LEGEND

- ① 4" WHITE SOLID
- ② 4" YELLOW SOLID
- ③ 4" YELLOW DOUBLE SOLID (11" C-C, TYP.)
- ④ 6" WHITE SOLID
- ⑤ 6" WHITE SKIP DASH (2' DASH, 6' SKIP)
- ⑥ 12" YELLOW SOLID (DIAGONALS AT 30° SPACING)
- ⑦ 24" SOLID WHITE STOP BAR

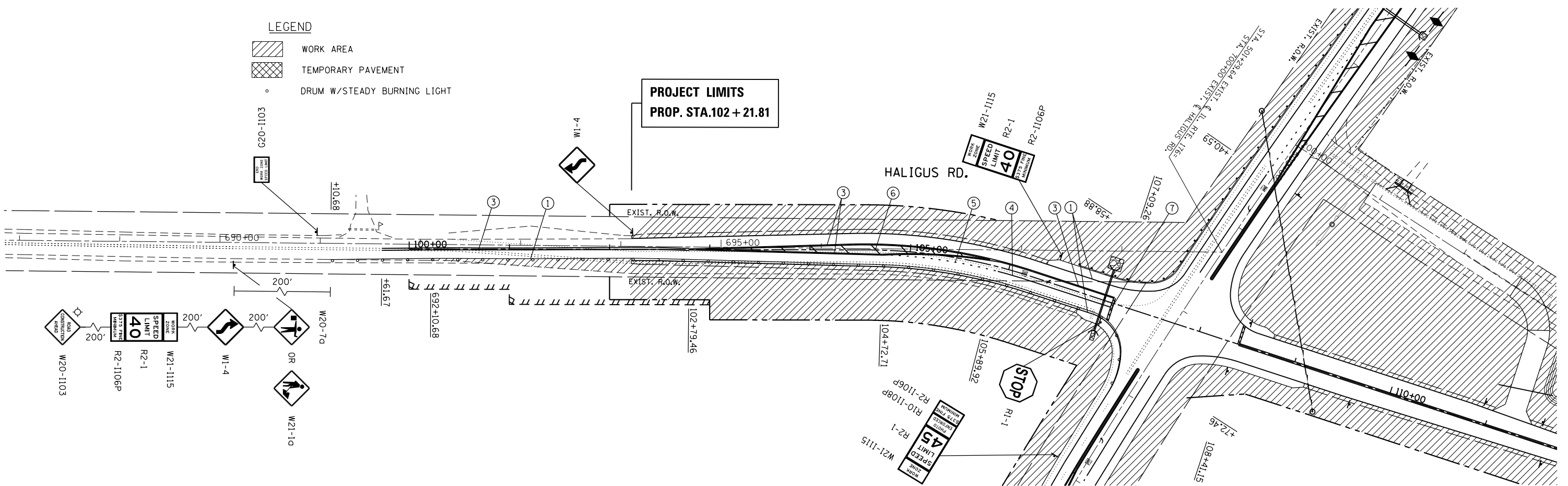


GENERAL NOTES:

- 1) WORK ON ONE SIDE OF THE ROADWAY AT A TIME SHALL BE PERFORMED DURING THE ENTIRE STAGE CONSTRUCTION.
- 2) CONFLICTING PAVEMENT MARKINGS OUTSIDE PROJECT LIMITS ARE TO BE REMOVED BY WATER BLASTING
- 3) CONFLICTING PAVEMENT MARKINGS INSIDE PROJECT LIMITS ARE TO BE REMOVED BY GRINDING
- 4) RESTORE ALL AREAS WHERE TEMPORARY PAVEMENT IS REMOVED TO EXISTING CONDITIONS, EXCEPT WHERE SHOWN OTHERWISE IN THE PLANS
- 5) SIGN PANEL ASSEMBLY WITH FLASHING BEACON AT EB & WB IL 176 SHALL BE REMOVED AT STAGE 4. THIS SHALL BE PAID BY 'REMOVE EXISTING FLASHING BEACON INSTALLATION COMPLETE'

LEGEND

- WORK AREA
- TEMPORARY PAVEMENT
- DRUM W/STEADY BURNING LIGHT



FILE NAME =	USER NAME = Bilgromiso	DESIGNED - SB	REVISED -
pw:\planroom.dot.illinois.gov\PIDOT\Documents\IDOT Offices\District 1\Projects\PI5771\DRAWING\Design\PI5771-11-sht-staging4.dgn		CHECKED -	REVISED -
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	PLOT DATE = 3/22/2019		

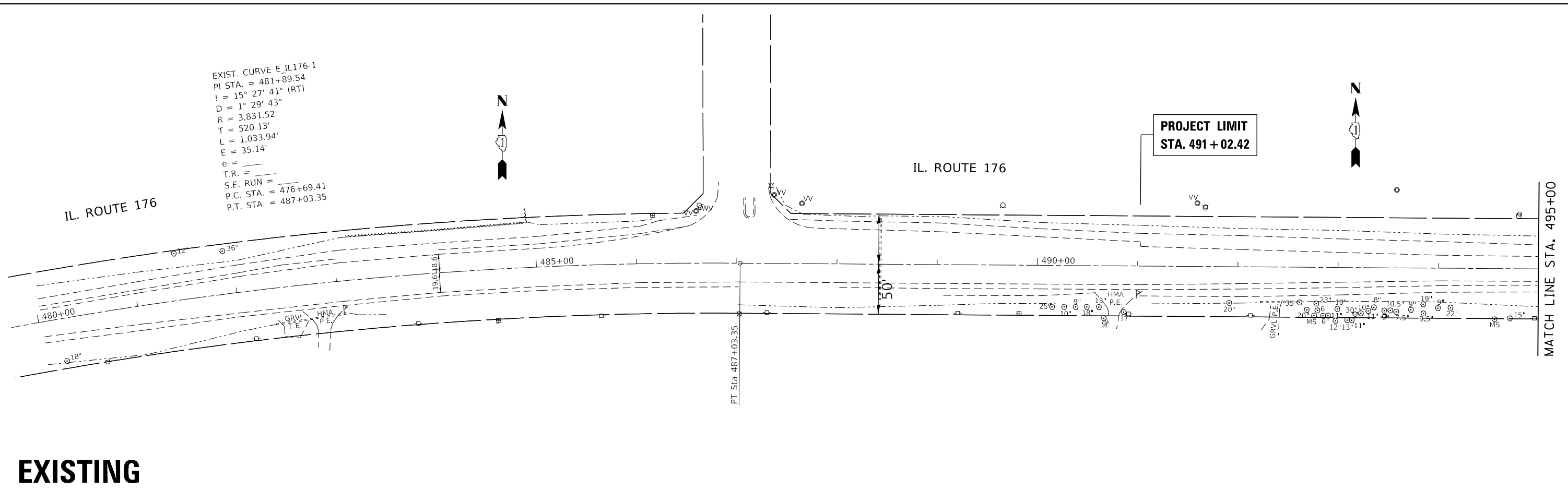
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 176 AT HALIGUS ROAD AND MT. THABOR ROAD
MAINTENANCE OF TRAFFIC (STAGE 4)

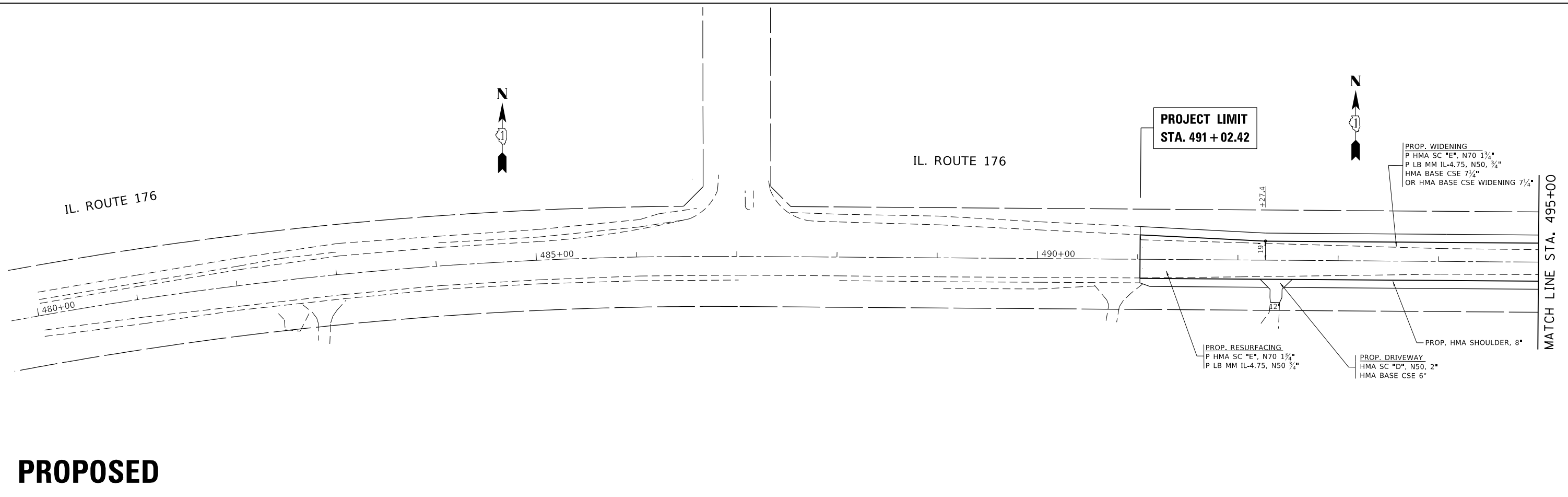
SCALE: 1" = 50' SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	120N-4	MCHENRY	126	31
CONTRACT NO. 62C06				
ILLINOIS FED. AID PROJECT				

EXIST. CURVE E_IL176-1
 PI STA. = 481+89.54
 I = 15° 27' 41" (RT)
 D = 1° 29' 43"
 R = 3,831.52'
 T = 520.13'
 L = 1,033.94'
 E = 35.14'
 e = _____
 T.R. = _____
 S.E. RUN = _____
 P.C. STA. = 476+69.41
 P.T. STA. = 487+03.35



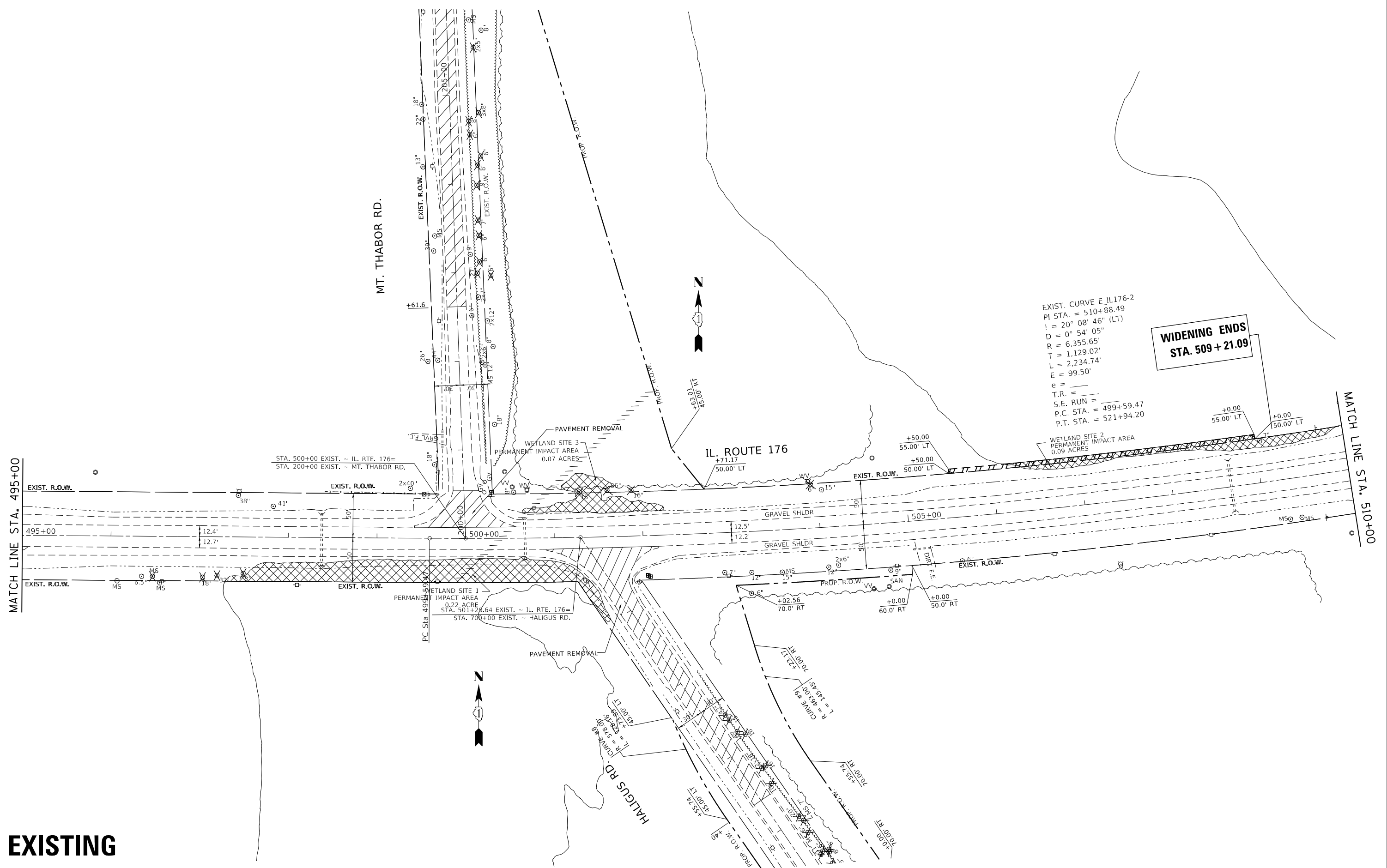
EXISTING



PROPOSED

FILE NAME =	USER NAME = Bilgromiso	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING AND PROPOSED ROADWAY PLAN AND PROFILE IL. RTE. 176 AT HALIGUS RD. / MT. THABOR RD.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw:\planroom.dot.illinois.gov\PIDOT\Documents\IDOT Offices\District 1\Projects\P157711\CAD\Drawings\CAD\Drawings\P157711-sht-plnpr.f.dgn	PLLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -			335	120N-4	MCHENRY	126	33	
Default	PLLOT DATE = 3/22/2019	DATE -	REVISED -			CONTRACT NO. 62C06					
						ILLINOIS FED. AID PROJECT					

EXISTING



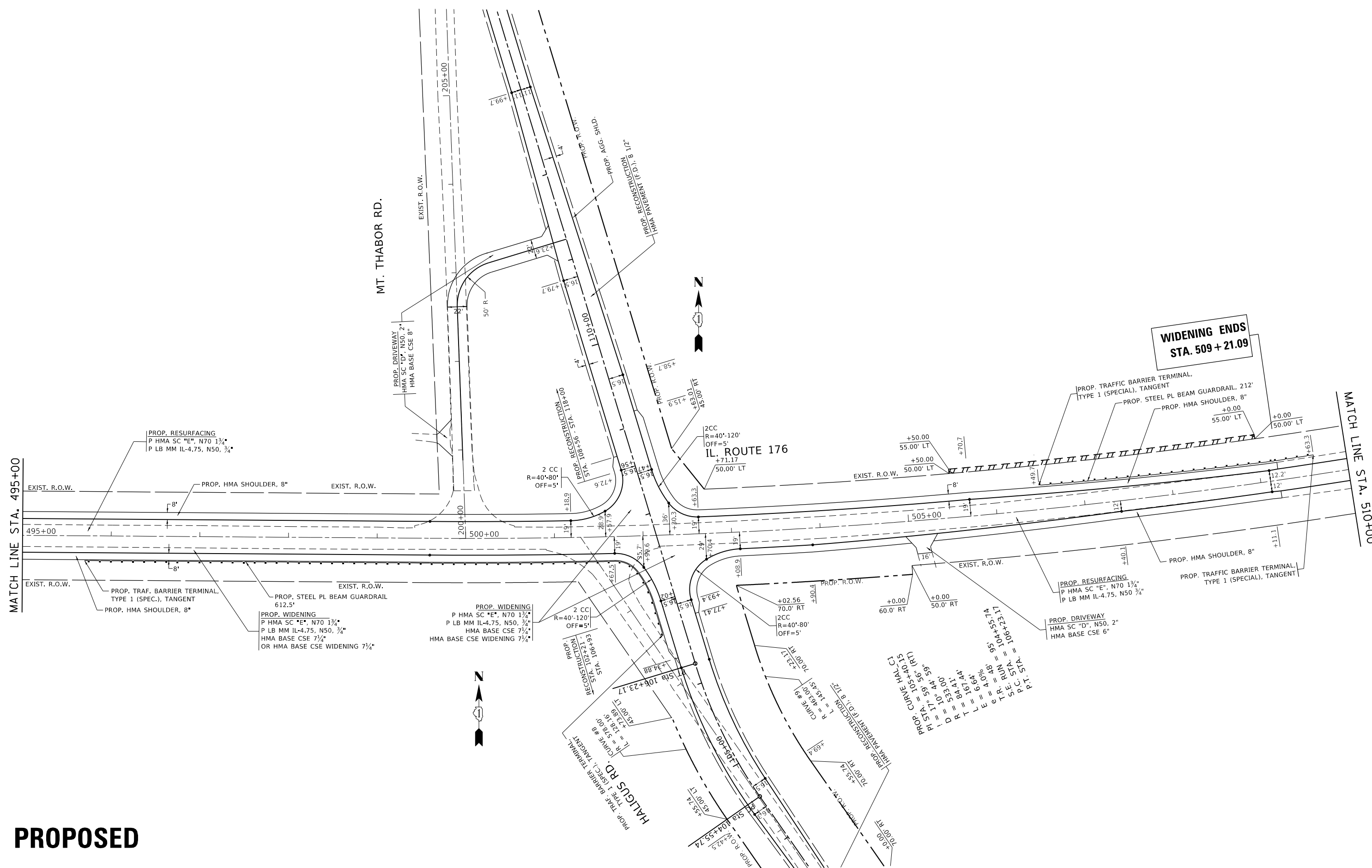
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Default	PLOT DATE = 3/22/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXISTING ROADWAY PLAN AND PROFILE
IL. RTE. 176 AT HALIGUS RD. / MT. THABOR RD.**

SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	120N-4	MCHENRY	126	34
CONTRACT NO. 62C06				
ILLINOIS FED. AID PROJECT				



PROPOSED

FILE NAME =	USER NAME = Bilgromiso	DESIGNED -	REVISED -
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Default	PLOT DATE = 3/22/2019	DATE -	REVISED -

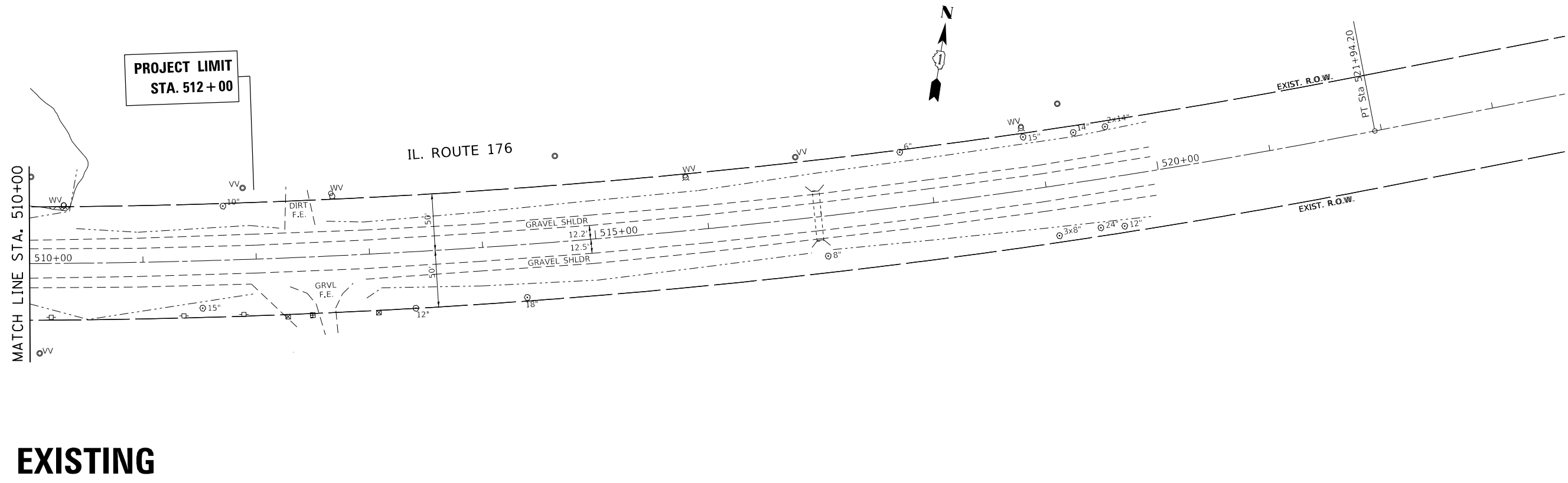
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED ROADWAY PLAN AND PROFILE
IL. RTE. 176 AT HALIGUS RD. / MT. THABOR RD.**

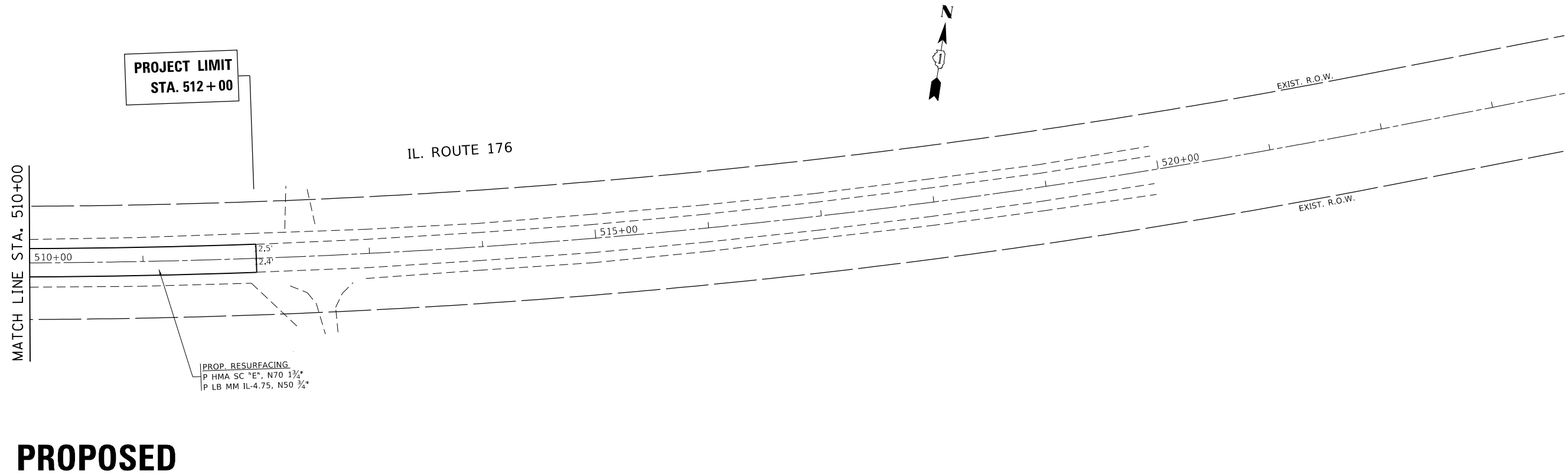
SCALE: 1" = 50'

SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	120N-4	MCHENRY	126	35
CONTRACT NO. 62C06				
ILLINOIS FED. AID PROJECT				



EXISTING



PROPOSED

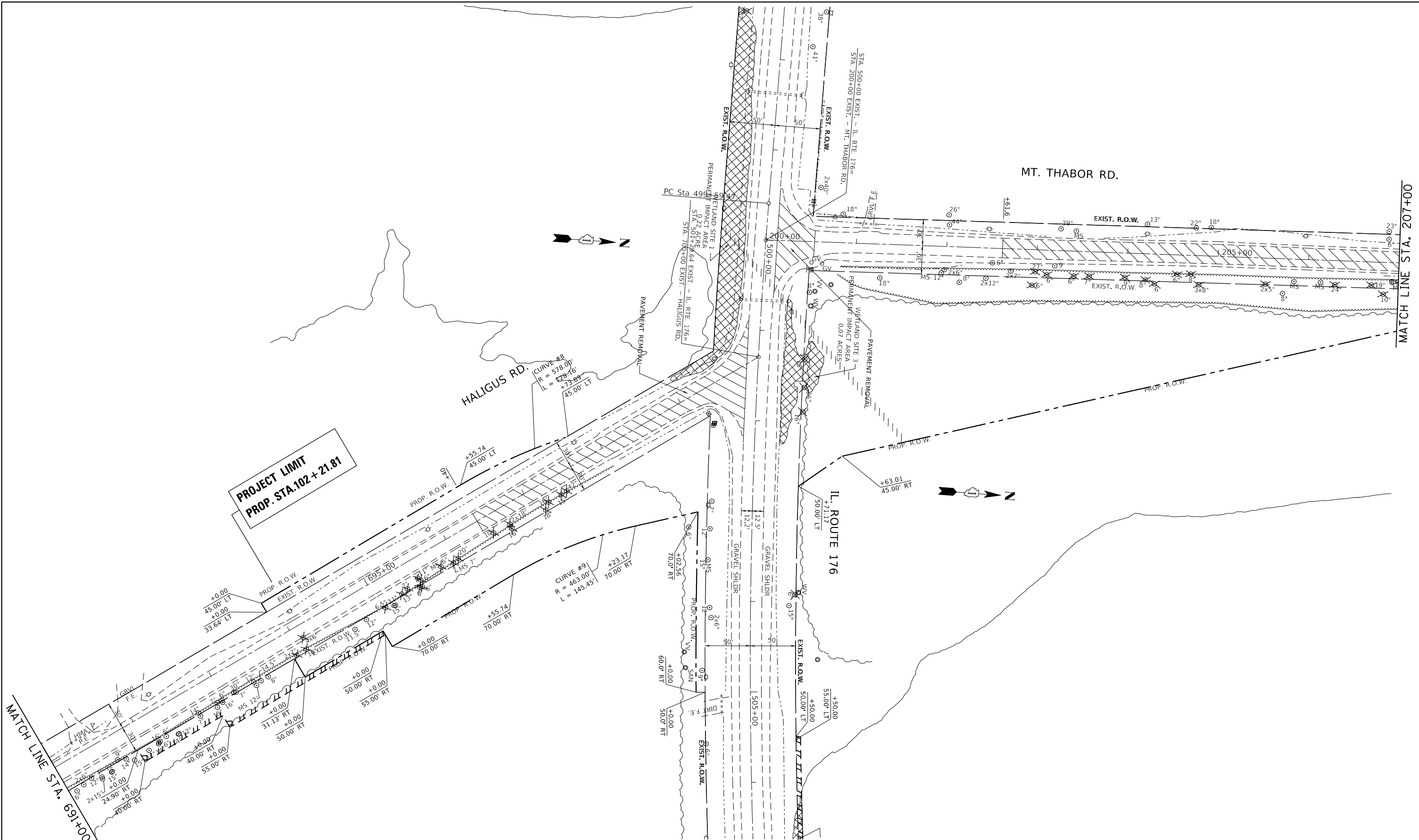
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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 3/22/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXISTING AND PROPOSED ROADWAY PLAN AND PROFILE
IL. RTE. 176 AT HALIGUS RD. / MT. THABOR RD.**

SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	120N-4	MCHENRY	126	36
CONTRACT NO. 62C06				
ILLINOIS FED. AID PROJECT				



PROJECT LIMIT
PROP. STA. 102+21.81

EXISTING

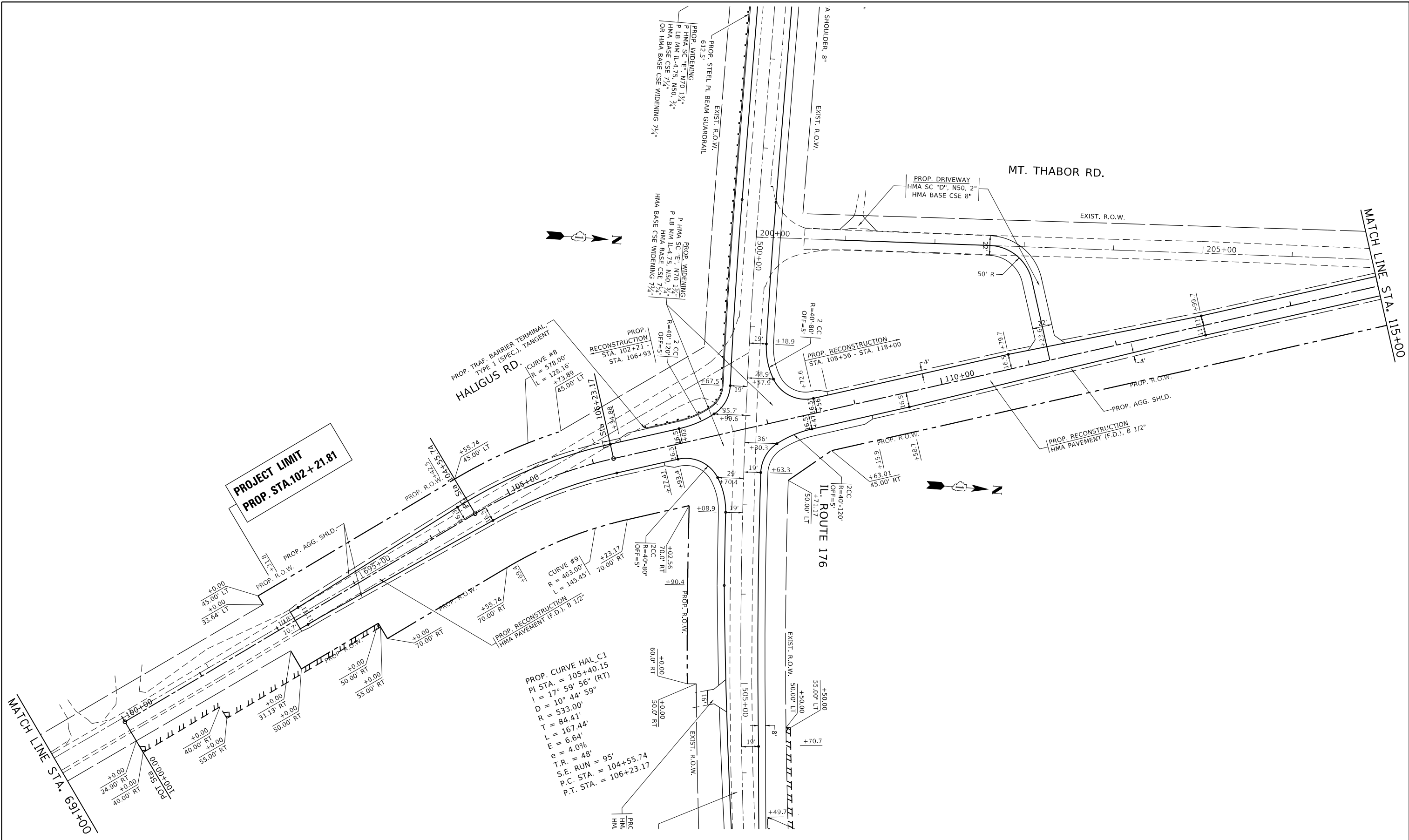
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Default	PLOT DATE = 3/22/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXISTING ROADWAY PLAN AND PROFILE
IL. RTE. 176 AT HALIGUS RD. / MT. THABOR RD.**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	120N-4	MCHENRY	126	37
CONTRACT NO. 62C06				
ILLINOIS FED. AID PROJECT				

SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.



PROPOSED

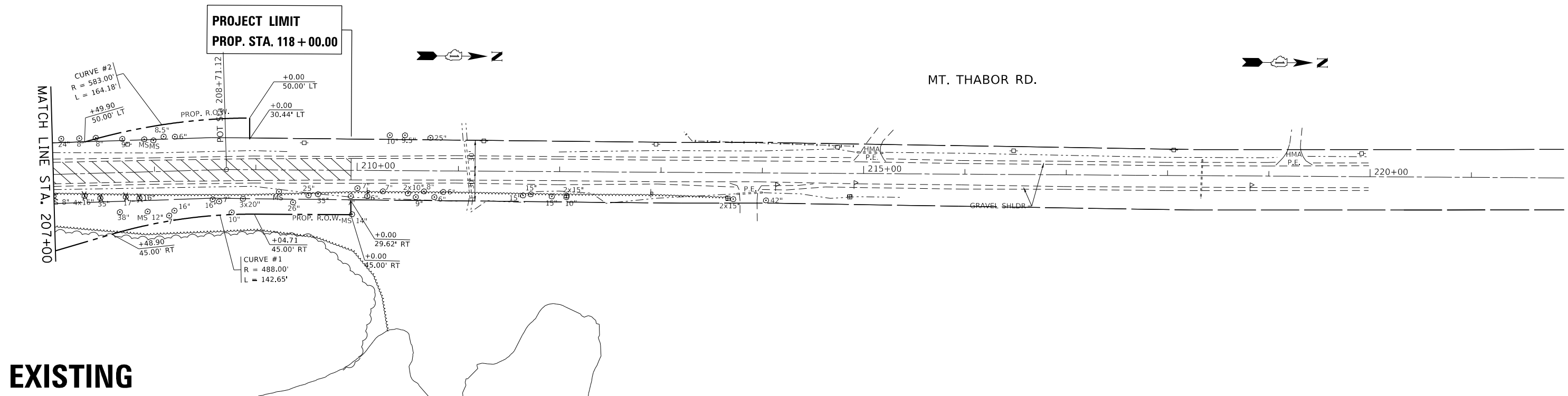
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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

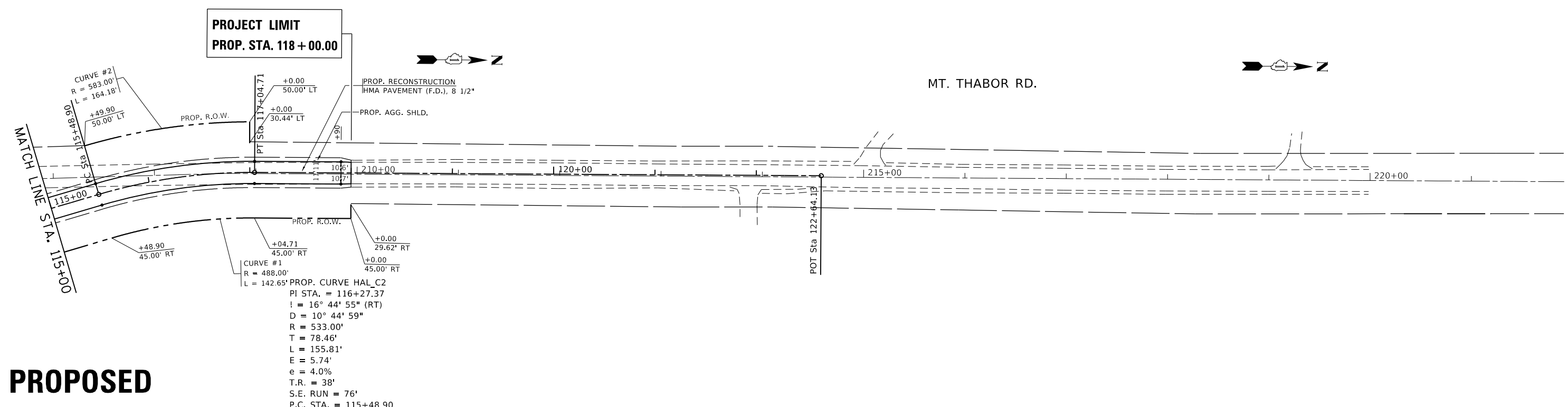
**PROPOSED ROADWAY PLAN AND PROFILE
IL. RTE. 176 AT HALIGUS RD. / MT. THABOR RD.**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	120N-4	MCHENRY	126	38
CONTRACT NO. 62C06				
ILLINOIS FED. AID PROJECT				

SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.



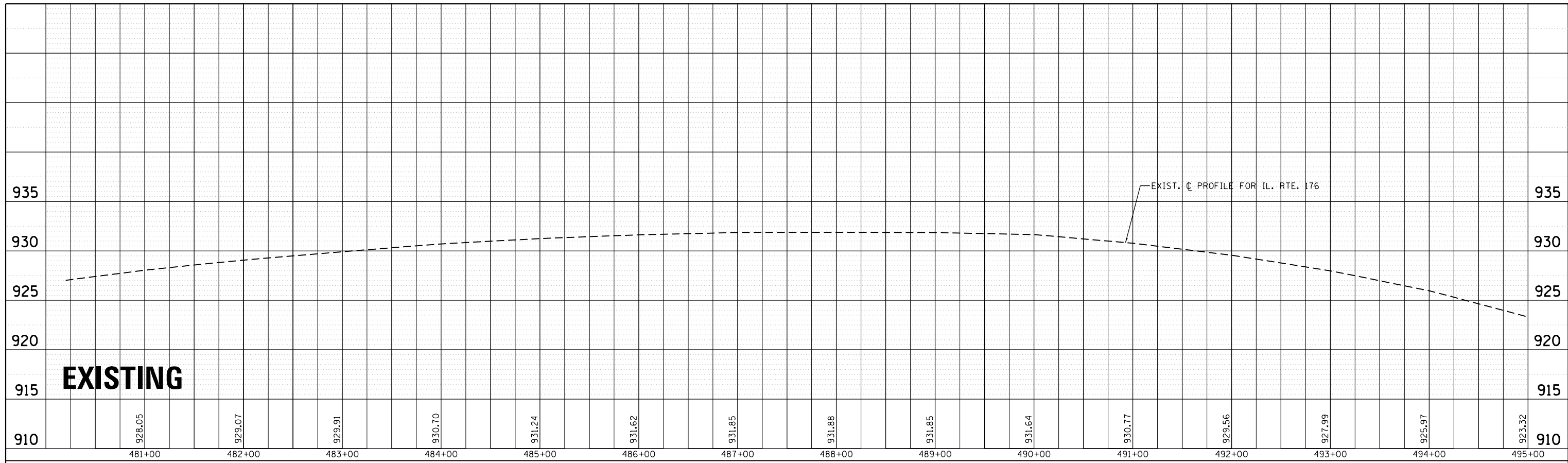
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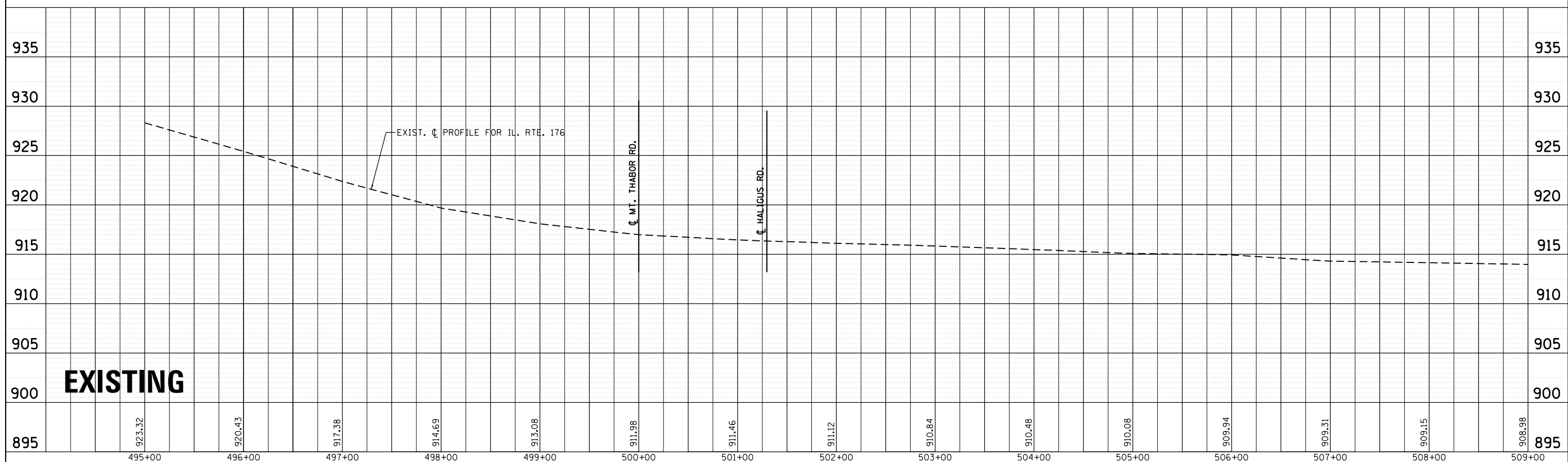
PROPOSED

FILE NAME =	USER NAME = Bilgromiso	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING AND PROPOSED ROADWAY PLAN AND PROFILE IL. RTE. 176 AT HALIGUS RD. / MT. THABOR RD.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\planroom\dot.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\PI15771\CAD\Drawings\PI15771-1-sh1-plnpr.f.dgn	DRAWN	REVISED -	REVISED -			335	120N-4	MCHENRY	126	39
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -	REVISED -			CONTRACT NO. 62C06				
Default	PLOT DATE = 3/22/2019	DATE -	REVISED -			SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA. ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	ALIGNMENT CHECKED		
	CAD FILE NAME		



PROFILE	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	GRADES CHECKED		
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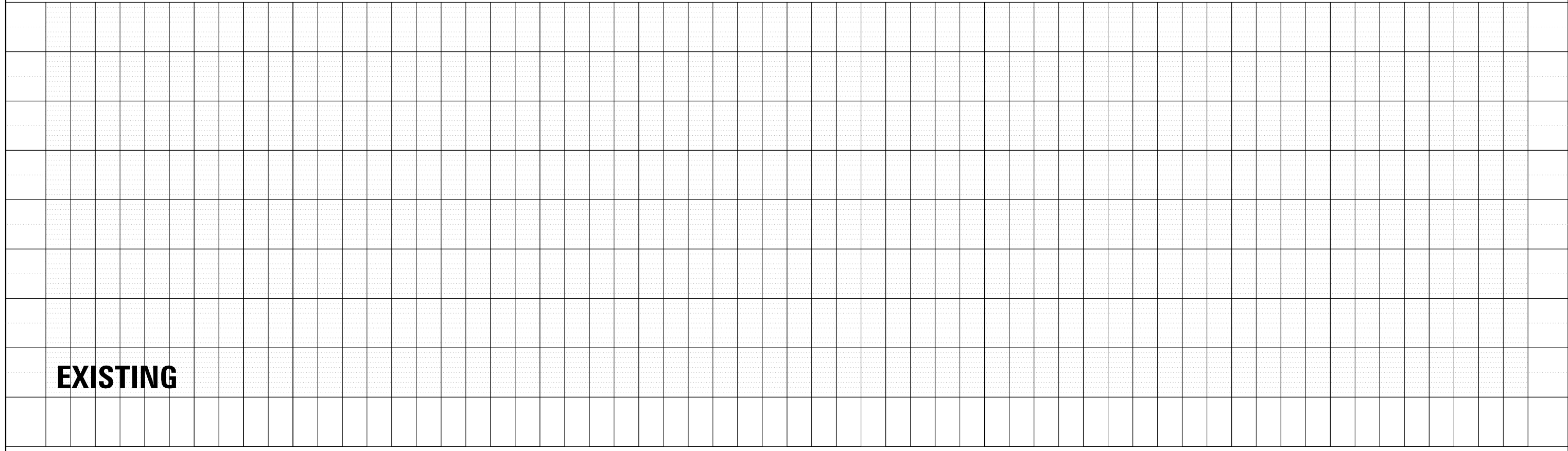
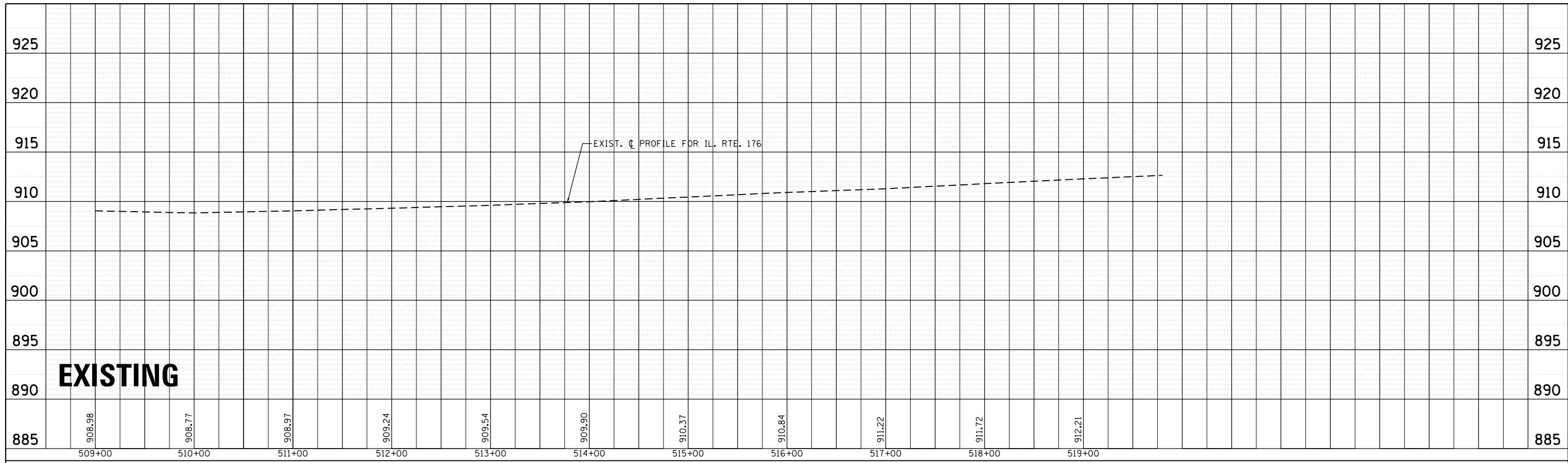


FILE NAME =	USER NAME = Bilgornisa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING AND PROPOSED ROADWAY PROFILE IL. RTE. 176 AT HALIGUS RD. / MT. THABOR RD			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\plnroom\dot.illinois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\PI57711\CAD\DRAW\CADsheets\PI57711-sht-plnprf.dgn	DRAWN	REVISED -	REVISED -		335	120N-4	MCHENRY	126	40			
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -	REVISED -		CONTRACT NO. 62C06							
Default	DATE = 3/22/2019	REVISED -	REVISED -		ILLINOIS FED. AID PROJECT							

SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNMENT		
	CHECKED		
	FILE NAME		
	NO.		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES		
	CHECKED		
	STRUCTURE		
	NOT AT THIS OFFICE		
	NO.		



FILE NAME =	USER NAME = Bilgomsa	DESIGNED -	REVISED -
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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
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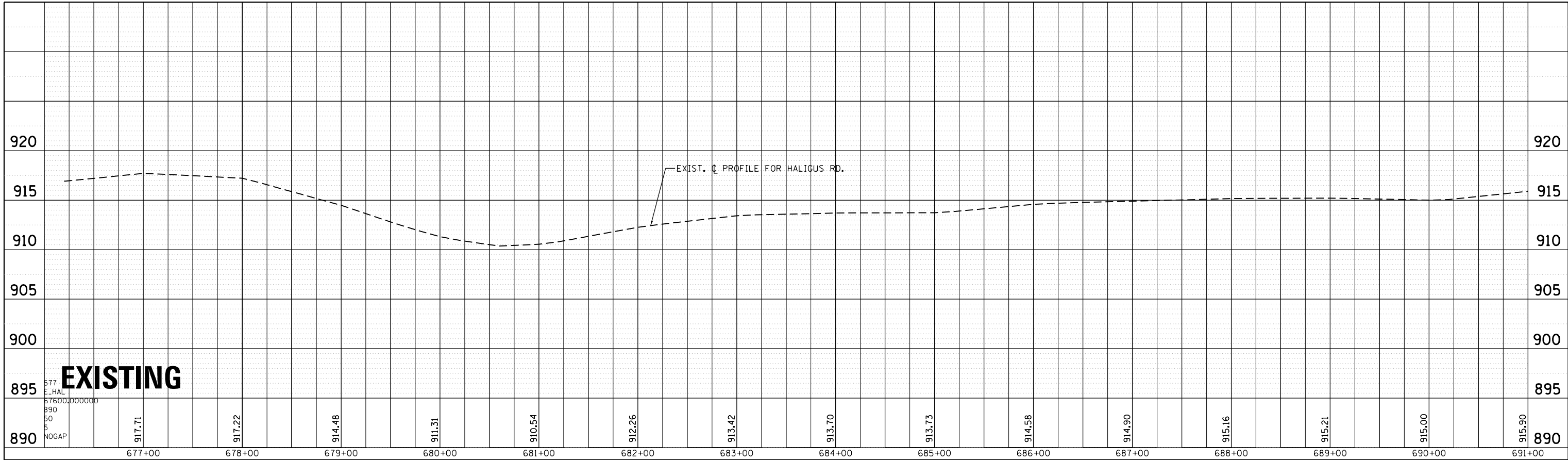
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXISTING AND PROPOSED ROADWAY PROFILE
IL. RTE. 176 AT HALIGUS RD. / MT. THABOR RD**

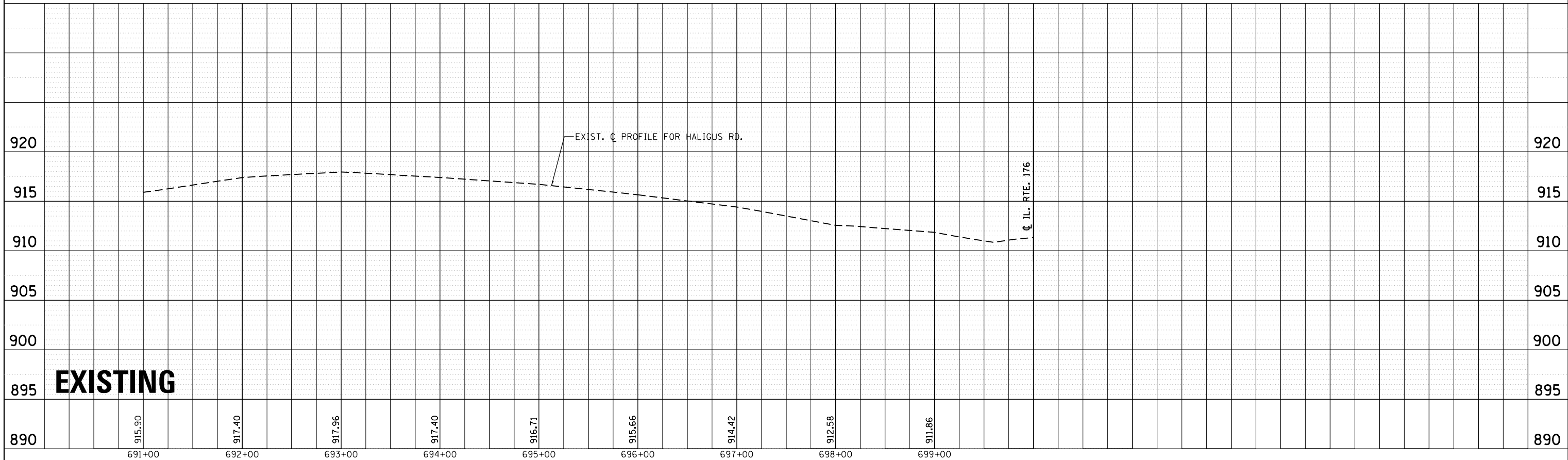
SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	120N-4	MCHENRY	126	41
			CONTRACT NO. 62C06	
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
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	NOTE BOOK		
	NO.		

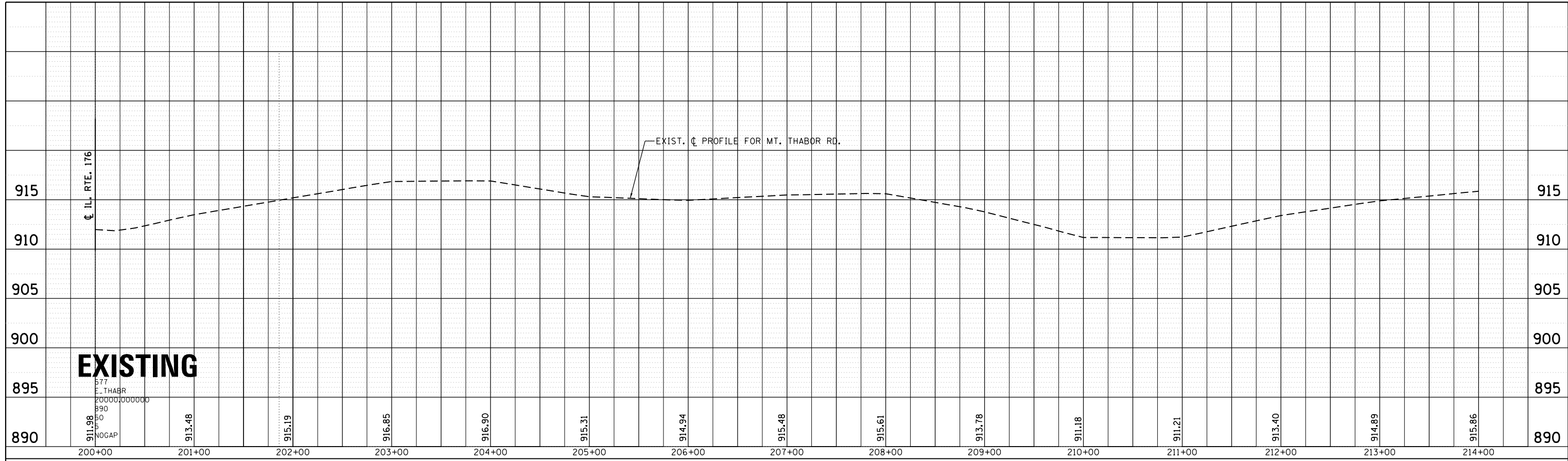


PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
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	NOTE BOOK		
	NO.		

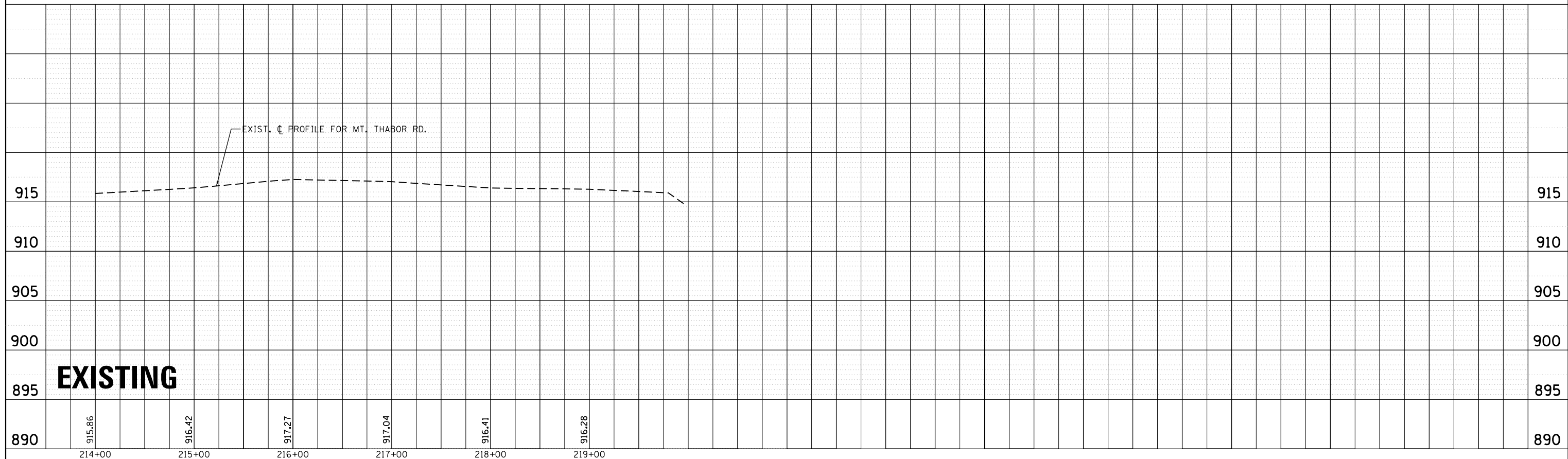


FILE NAME =	USER NAME = Bilgramisa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING AND PROPOSED ROADWAY PROFILE IL. RTE. 176 AT HALIGUS RD. / MT. THABOR RD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\plnroom\dot.illinois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\PI57711\CAD\DRAWING\CADsheets\PI57711-sht-plnprf.dgn	DRAWN	REVISED -	REVISED -			335	120N-4	MCHENRY	126	42
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -	REVISED -			CONTRACT NO. 62C06				
Default	DATE -	REVISED -	REVISED -			SCALE: 1" = 50'	SHEET	OF	SHEETS	STA.
						ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	NOTE BOOK		
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	NO.		
	NO.		
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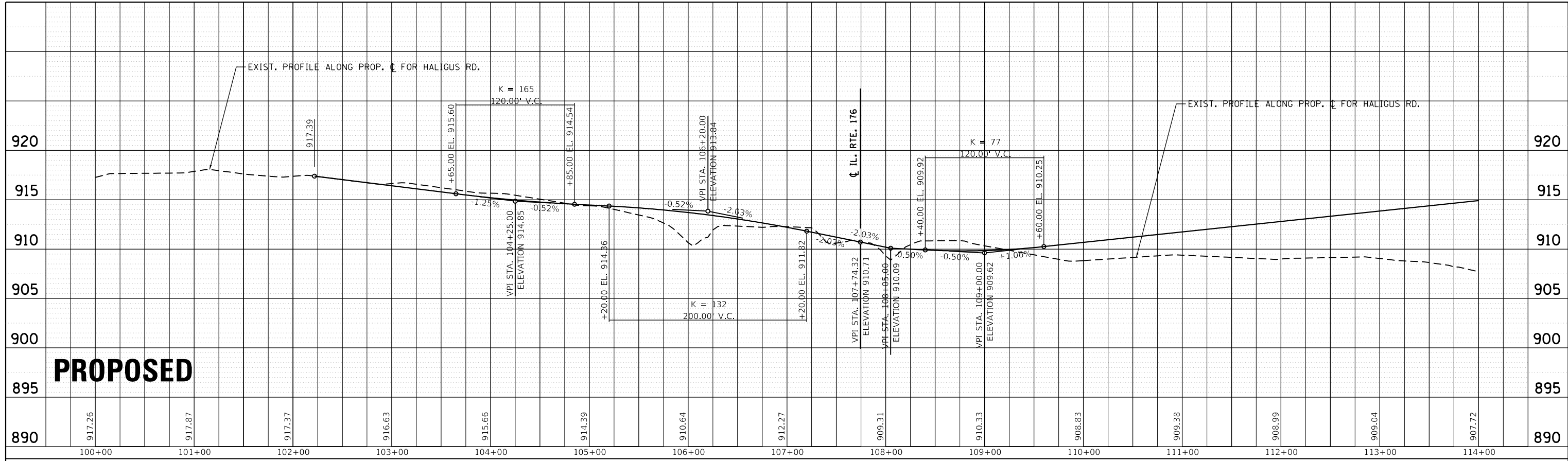


PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
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	NO.		
	NO.		
	NO.		
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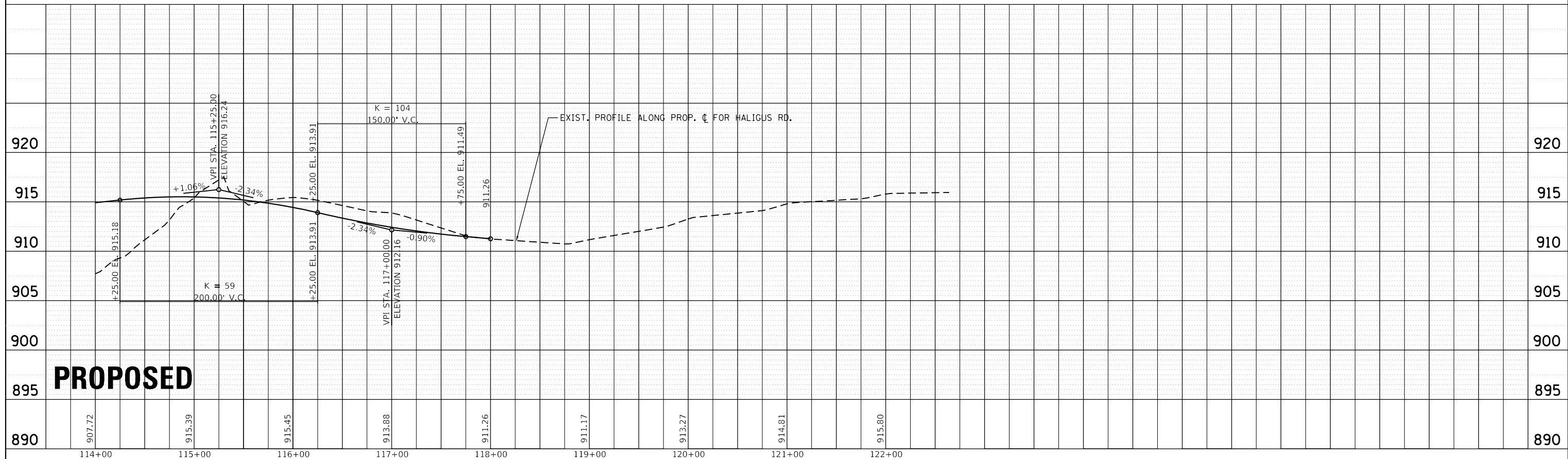


FILE NAME =	USER NAME = Bilgimisa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING AND PROPOSED ROADWAY PROFILE IL. RTE. 176 AT HALIGUS RD. / MT. THABOR RD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
p:\p\planroom.dot\illinois.gov\PWIDOT\Documents\DOT Offices\District 1\Projects\PI57711\CAD\DRAWING\PI57711-sht-plnprf.dgn	PLLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -			335	120N-4	MCHENRY	126	43	
Default	PLLOT DATE = 3/22/2019	DATE -	REVISED -			CONTRACT NO. 62C06		ILLINOIS FED. AID PROJECT			
						SCALE: 1" = 50'	SHEET OF SHEETS	STA.	TO STA.		

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	ALIGNMENT CHECKED		
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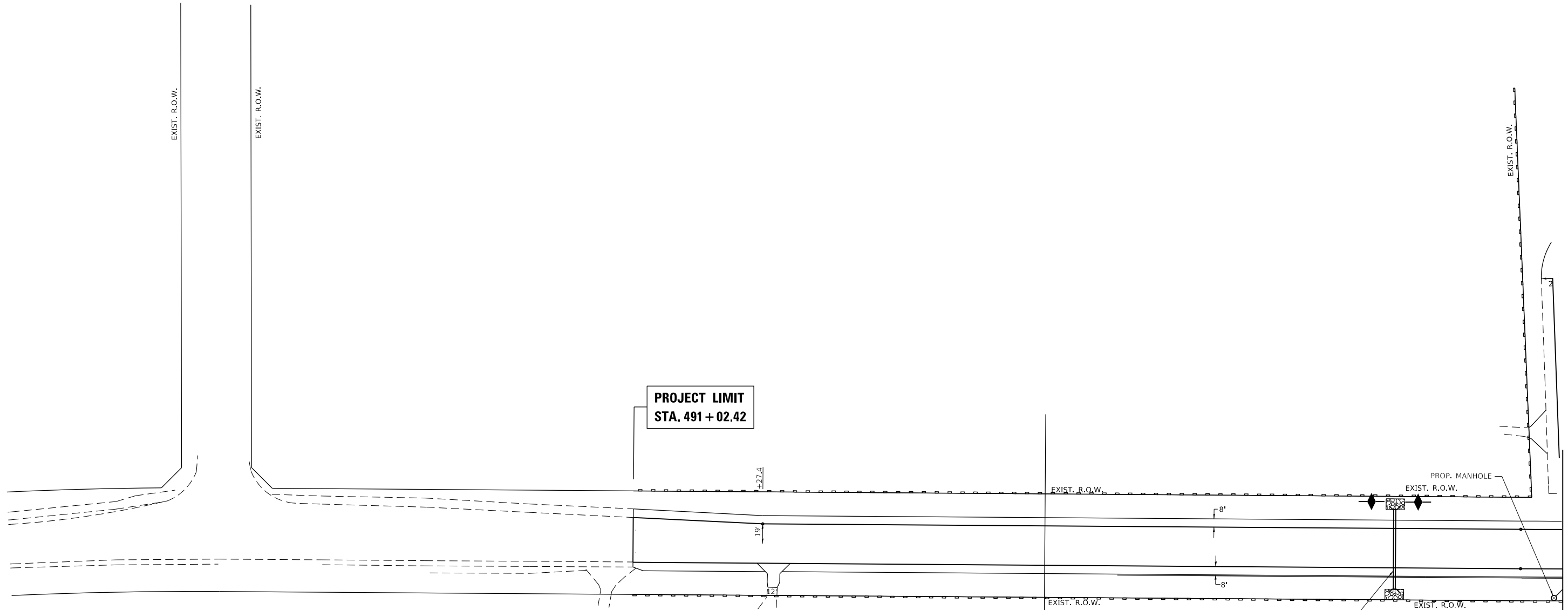


PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NOTE BOOK NO.		
	CADD FILE NAME		



FILE NAME =	USER NAME = Bilgornisa	DESIGNED -	REVISIED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING AND PROPOSED ROADWAY PROFILE IL. RTE. 176 AT HALIGUS RD. / MT. THABOR RD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\p\planroom.dot\illinois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\PI57711\CADD\CAD\Sheets\PI57711-sht-plnprf.dgn	DRAWN	REVISIED	REVISIED			335	120N-4	MCHENRY	126	44
PLOT SCALE = 100.0000' / in.	CHECKED	REVISIED	REVISIED			CONTRACT NO. 62C06				
DATE = 3/22/2019	DATE	REVISIED	REVISIED			ILLINOIS FED. AID PROJECT				

SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.



MATCH LINE STA. 500 + 00

EROSION CONTROL LEGEND

SYMBOL	DESCRIPTION
	INLET FILTER *
	TEMPORARY DITCH CHECK
	PROP. RIP RAP
	PERIMETER EROSION BARRIER (SILT FENCE, SEE STANDARD 280001)
	EXIST. R.O.W.
	PROP. R.O.W.
	PROP. TEMPORARY EASEMENT
*	ITEMS TO BE INSTALLED BEFORE THE AREA IS DISTURBED.
	TREE PROTECTION

TEMPORARY EROSION CONTROL SEQUENCE OF CONSTRUCTION

1. ESTABLISH TEMPORARY EROSION CONTROL MEASURES AND ERECT SILT FENCE ALONG SITE BOUNDARIES AS SHOWN ON PLAN PRIOR TO MASS EARTHWORK.
2. INSTALL DITCH CHECKS IMMEDIATELY AFTER DITCH DISTURBANCE STARTS.
3. INSTALL PERMANENT SEEDING BEFORE BEGINNING NEXT CONSTRUCTION STAGE.

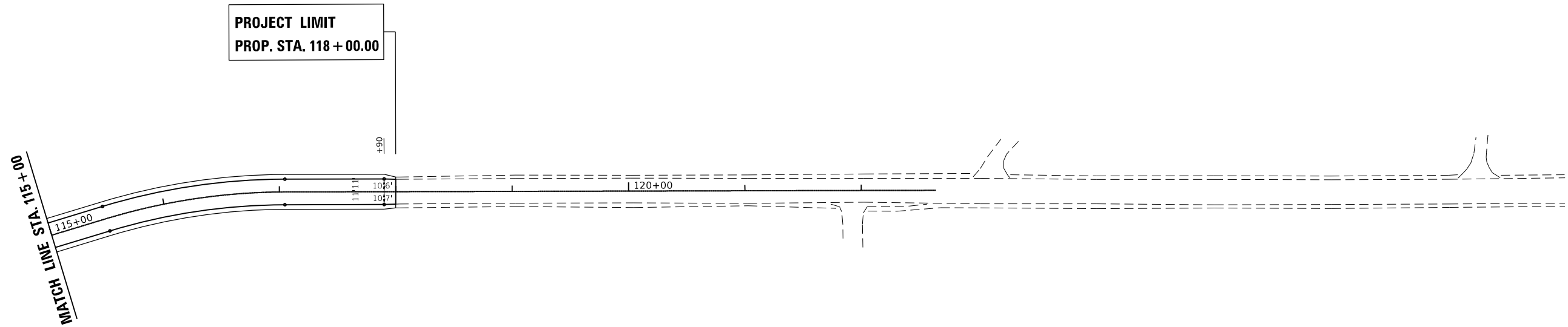
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	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/22/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL PLAN			
IL 176 AT HALIGUS RD./MT. THABOR RD.			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	120N-4	MCHENRY	126	45
CONTRACT NO. 62C06				
ILLINOIS FED. AID PROJECT				



**TEMPORARY EROSION CONTROL
SEQUENCE OF CONSTRUCTION**

1. ESTABLISH TEMPORARY EROSION CONTROL MEASURES AND ERECT SILT FENCE ALONG SITE BOUNDARIES AS SHOWN ON PLAN PRIOR TO MASS EARTHWORK.
2. INSTALL DITCH CHECKS IMMEDIATELY AFTER DITCH DISTURBANCE STARTS.
3. INSTALL PERMANENT SEEDING BEFORE BEGINNING NEXT CONSTRUCTION STAGE.

EROSION CONTROL LEGEND	
SYMBOL	DESCRIPTION
	INLET FILTER *
	TEMPORARY DITCH CHECK
	PROP. RIP RAP
	PERIMETER EROSION BARRIER (SILT FENCE, SEE STANDARD 280001)
	EXIST. R.O.W.
	PROP. R.O.W.
	PROP. TEMPORARY EASEMENT
*	ITEMS TO BE INSTALLED BEFORE THE AREA IS DISTURBED.
	TREE PROTECTION

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 DATE: 3/22/2019

USER NAME = Bilgramisa	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/22/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL PLAN			
IL 176 AT HALIGUS RD./MT. THABOR RD.			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	120N-4	MCHENRY	126	48
			CONTRACT NO. 62C06	
		ILLINOIS	FED. AID PROJECT	

EROSION CONTROL NOTES

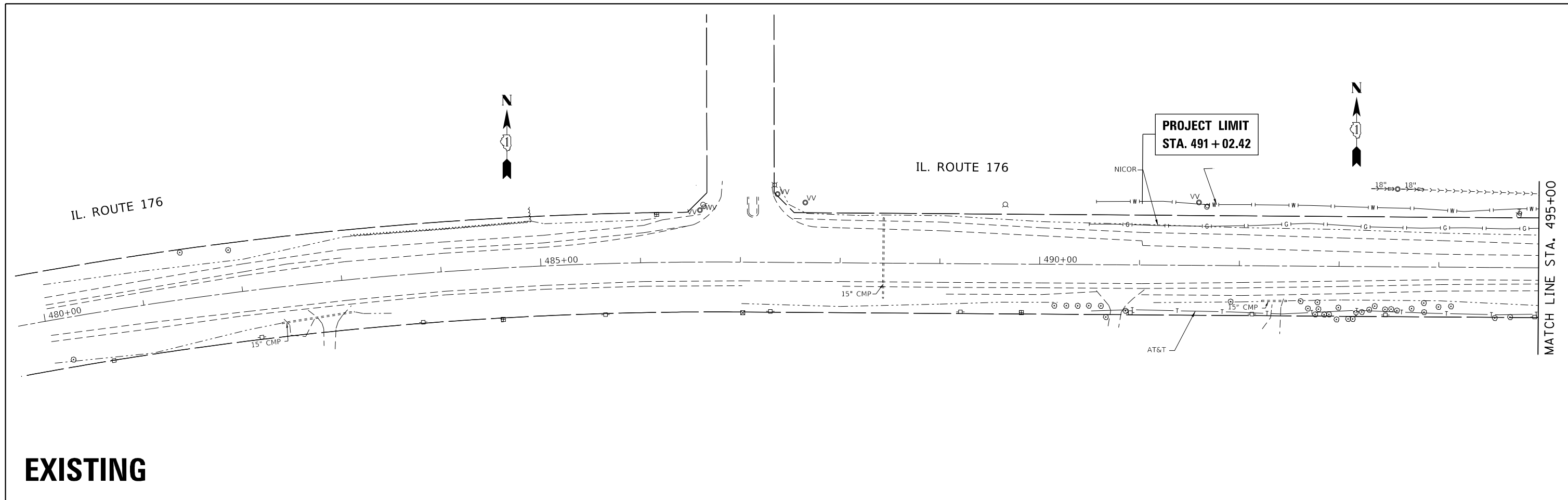
NOTE:

- 1) THIS PROJECT REQUIRES A U.S. ARMY CORPS OF ENGINEERS (USACE) 404 PERMIT THAT WILL BE SECURED BY THE DEPARTMENT. ALL CONDITIONS OF THE 404 PERMIT FOUND IN THE SPECIAL PROVISIONS, MUST BE FOLLOWED. AS A CONDITION OF THIS PERMIT, THE CONTRACTOR WILL NEED TO SUBMIT AN IN-STREAM WORK PLAN (INCLUDING WORK WITHIN WETLANDS) TO THE DEPARTMENT FOR APPROVAL. GUIDELINES ON ACCEPTABLE IN-STREAM WORK TECHNIQUES (INCLUDING WORK WITHIN WETLANDS) CAN BE FOUND ON THE USACE WEBSITE. THE USACE DEFINES AND DETERMINES IN-STREAM WORK. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT AN IN-STREAM WORK PLAN (INCLUDING WORK WITHIN WETLANDS) WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 2) INSTALL PERIMETER EROSION BARRIER ALONG R.O.W. & TEMPORARY EASEMENTS, AS SHOWN ON PLANS. PERIMETER EROSION CONTROL SHALL BE PLACED 12 INCHES FROM THE R.O.W. OR EASEMENTS.
- 3) EXCAVATION FOR THE INSTALLATION OF RIP RAP WILL BE PAID FOR AS "REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL" PER CU. YD.
- * 4) INSTALL INLET FILTERS ON ALL OPEN STRUCTURES. INLET PROTECTION SHALL BE PLACED IMMEDIATELY AFTER THE INVOLVED AREA HAS BEEN DISTURBED.
- 5) TEMPORARY EROSION CONTROL SEEDING IS TO BE PROVIDED AT ALL ERODIBLE BARE EARTH AREAS.
- 6) AT ANY AREA WHERE THERE IS NO PROPOSED GRADING, THE EXISTING GROUND COVER SHALL REMAIN.
- 7) THE EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE STATE STANDARD FOR THE ENTIRE DURATION OF THE CONTRACT, OR UNTIL SUCH A TIME AS DIRECTED BY THE ENGINEER.
- 8) ALL ESC MEASURES WILL BE MAINTAINED IN ACCORDANCE WITH THE IDOT EROSION AND SEDIMENT CONTROL FIELD GUIDE FOR CONSTRUCTION INSPECTION AND IDOT'S BEST MANAGEMENT PRACTICES - MAINTENANCE GUIDE:
([HTTP://WWW.IDOT.ILLINOIS.GOV/TRANSPORTATION-SYSTEM/ENVIRONMENT/EROSION-AND-SEDIMENT-CONTROL](http://www.idot.illinois.gov/transportation-system/environment/erosion-and-sediment-control)).
- 9) THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR MAINTENANCE OF ALL SOIL EROSION CONTROL DURING CONSTRUCTION.
- 10) THE CONTRACTOR SHALL CHECK ALL ESC MEASURES WEEKLY AND AFTER EACH RAINFALL, 0.5 INCHES OR GREATER IN A 24 HOUR PERIOD, OR EQUIVALENT SNOWFALL. ADDITIONALLY, DURING THE WINTER MONTHS, ALL MEASURES SHOULD BE CHECKED BY THE CONTRACTOR AFTER EACH SIGNIFICANT SNOWMELT.
- 11) THE CONTRACTOR SHOULD PROVIDE TO THE RE A PLAN TO ENSURE THAT A STABILIZED FLOW LINE WILL BE PROVIDED DURING STORM SEWER CONSTRUCTION. THE USE OF A STABILIZED FLOW LINE BETWEEN INSTALLED STORM SEWER AND OPEN DISTURBANCE WILL REDUCE THE POTENTIAL FOR THE OFFSITE DISCHARGE OF SEDIMENT-BEARING WATERS, ESPECIALLY WHEN RAIN IS FORECASTED, SO THAT FLOW WILL NOT ERODE. LACK OF APPROVED PLAN OR FAILURE TO COMPLY WILL RESULT IN AN ESC DEFICIENCY DEDUCTION.
- 12) ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES, WHICH OBSTRUCTS THE NATURAL FLOW OF WATER, SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCIDENTAL.
- 13) TEMPORARY OR PERMANENT STABILIZATION SHALL BE INITIATED IMMEDIATELY UPON COMPLETION OF DISTURBANCE OR IF THE WORK AREA IS TO BE LEFT UNDISTURBED FOR 14 DAYS OR MORE.
- 14) UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR PROLONG FINAL GRADING AND SHAPING SO THAT THE ENTIRE PROJECT CAN BE PERMANENTLY SEEDED AT ONE TIME.
- 15) EROSION CONTROL ITEMS ARE CONSIDERED TO BE A HIGH PRIORITY ON THIS CONTRACT. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE RE.

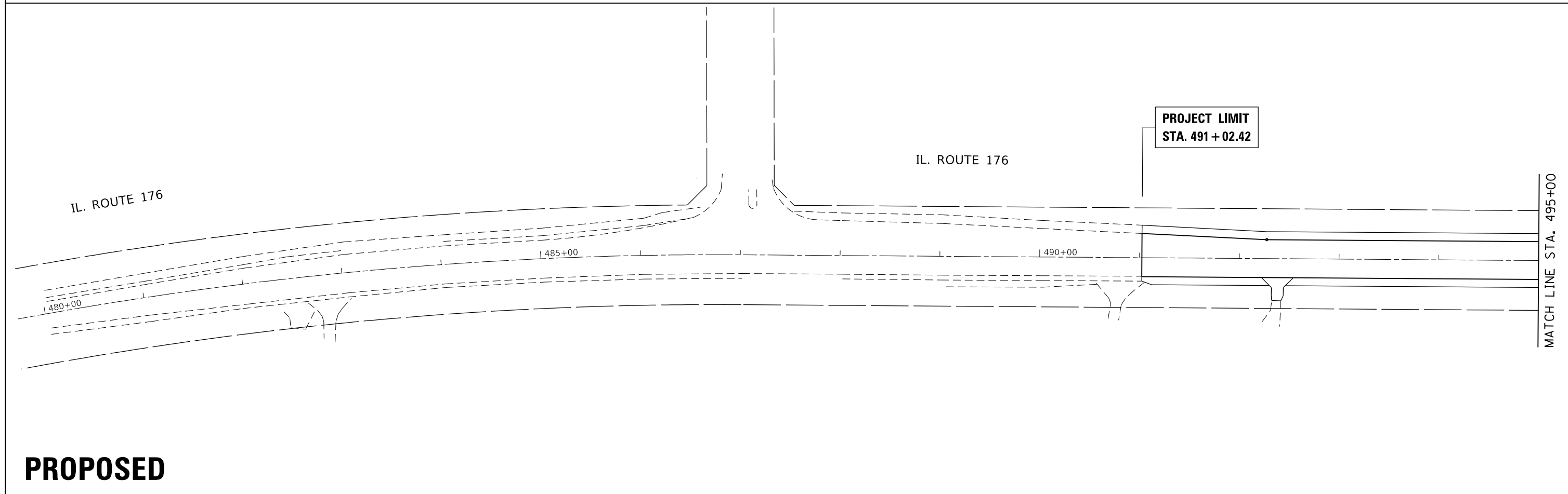
* ITEMS TO BE INSTALLED BEFORE
THE AREA IS DISTURBED.

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	USER NAME = Bilgramisa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL NOTES IL 176 AT HALIGUS RD./MT. THABOR RD.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -			335	120N-4	MCHENRY	126	49	
	PLOT DATE = 3/22/2019	DATE -	REVISED -			CONTRACT NO. 62C06					
						SCALE:	SHEET	OF	SHEETS	STA.	TO
ILLINOIS FED. AID PROJECT											



EXISTING



PROPOSED

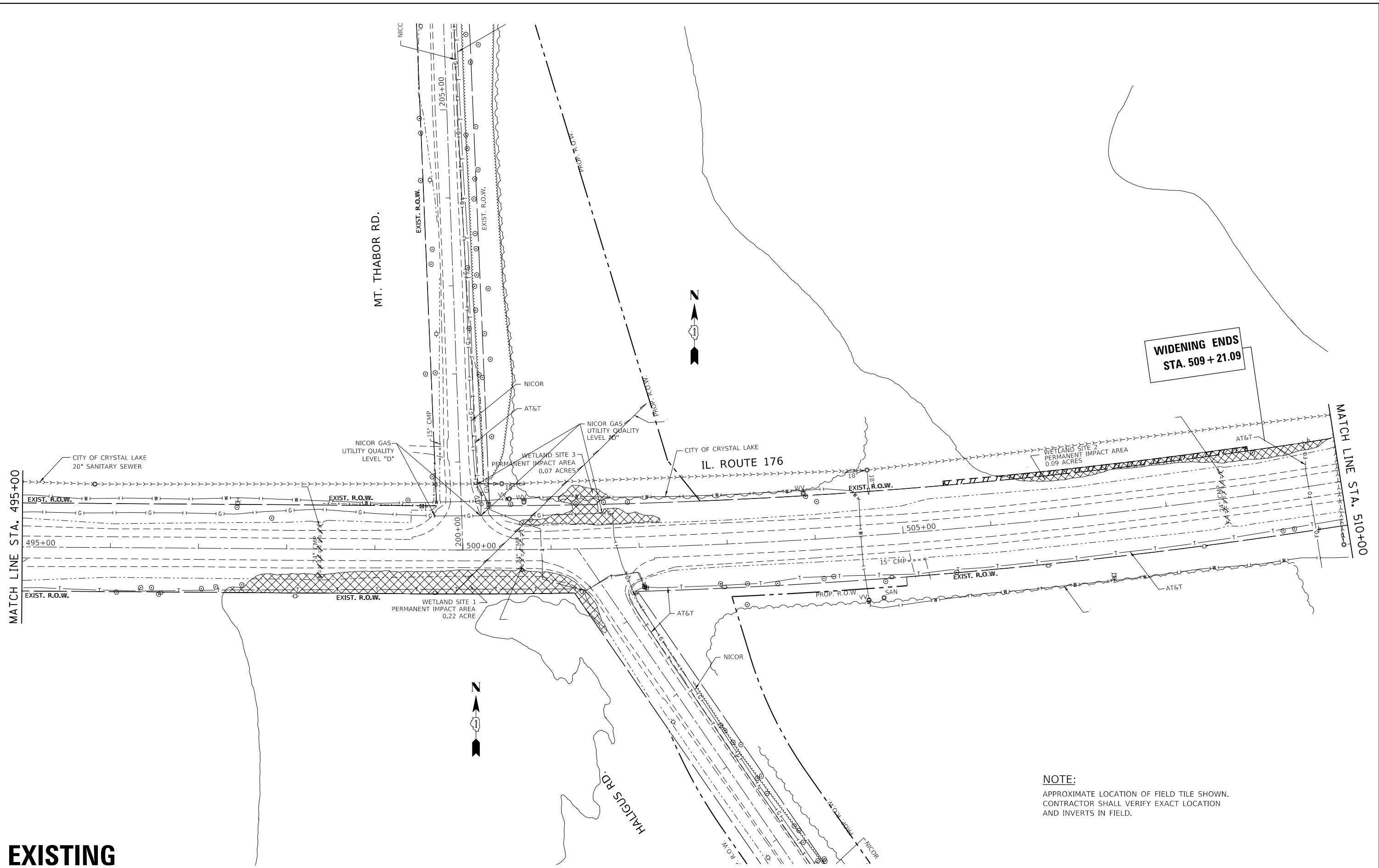
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXISTING AND PROPOSED DRAINAGE PLAN
IL. RTE. 176 AT HALIGUS RD. / MT. THABOR RD**

SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	120N-4	MCHENRY	126	50
CONTRACT NO. 62C06				
ILLINOIS FED. AID PROJECT				

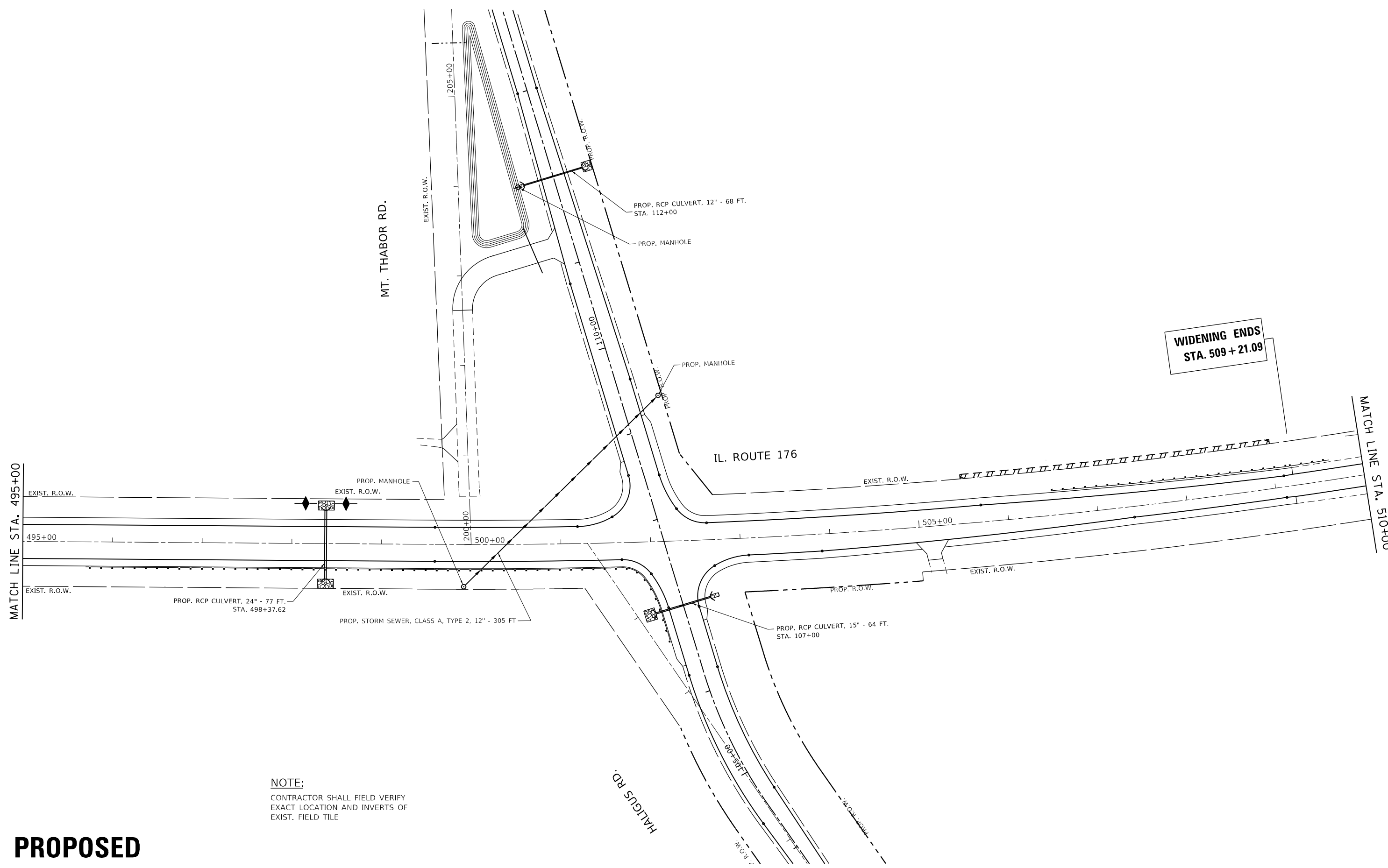


EXISTING

NOTE:
 APPROXIMATE LOCATION OF FIELD TILE SHOWN.
 CONTRACTOR SHALL VERIFY EXACT LOCATION
 AND INVERTS IN FIELD.

FILE NAME =	USER NAME = Bilgomsa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING AND PROPOSED DRAINAGE PLAN IL. RTE. 176 AT HALIGUS RD. / MT. THABOR RD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw\planroom.dot.illinois.gov\PIDOT\Documents\IDOT Offices\District 1\Projects\P157711\DRAWING\CAD\Sheets\P157711-sht-drain.dgn	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -			335	120N-4	MCHENRY	126	51	
Default	PLOT DATE = 3/22/2019	DATE -	REVISED -			CONTRACT NO. 62C06					
						SCALE: 1" = 50'	SHEET	OF	SHEETS	STA.	TO

ILLINOIS FED. AID PROJECT



NOTE:
 CONTRACTOR SHALL FIELD VERIFY
 EXACT LOCATION AND INVERTS OF
 EXIST. FIELD TILE

PROPOSED

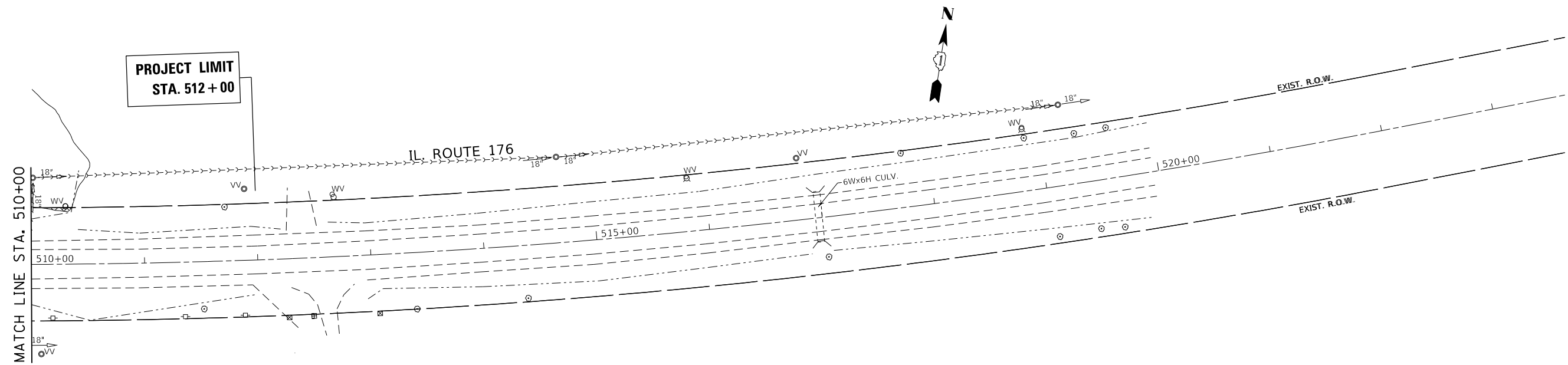
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

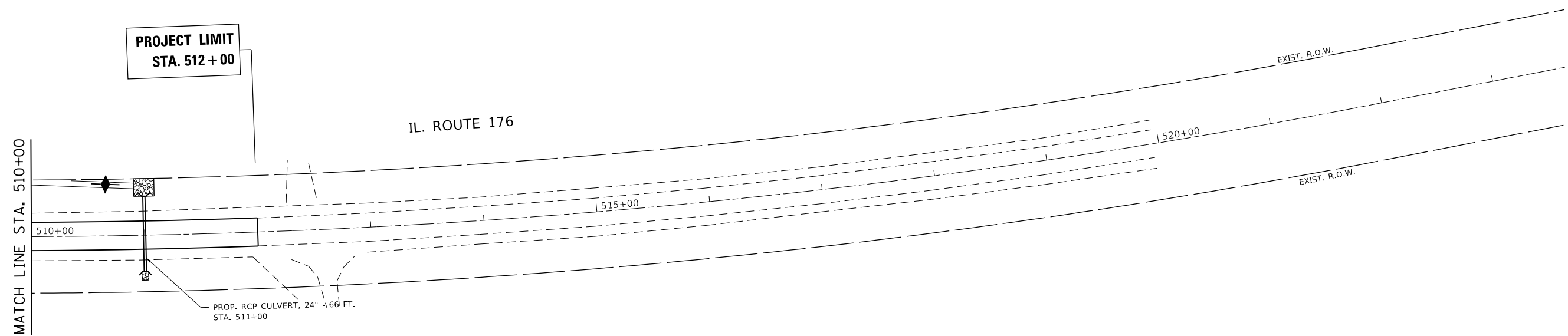
**EXISTING AND PROPOSED DRAINAGE PLAN
 IL. RTE. 176 AT HALIGUS RD. / MT. THABOR RD**

SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	120N-4	MCHENRY	126	52
CONTRACT NO. 62C06				
ILLINOIS FED. AID PROJECT				



EXISTING



PROPOSED

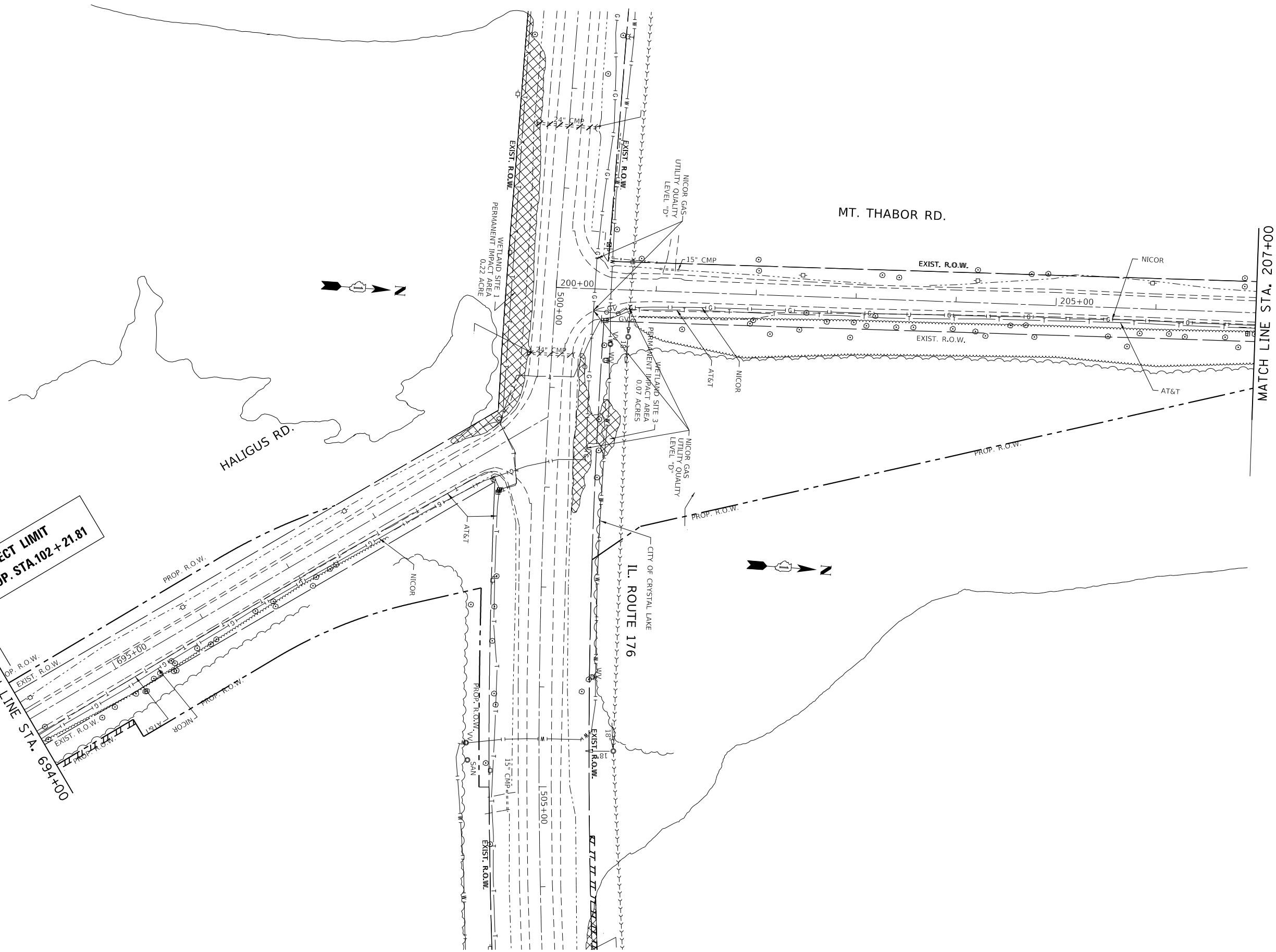
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Default	PLOT DATE = 3/22/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXISTING AND PROPOSED DRAINAGE PLAN
IL. RTE. 176 AT HALIGUS RD. / MT. THABOR RD**

SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	120N-4	MCHENRY	126	53
CONTRACT NO. 62C06				
ILLINOIS FED. AID PROJECT				



PROJECT LIMIT
PROP. STA. 102 + 21.81

MATCH LINE STA. 694+00

MATCH LINE STA. 207+00

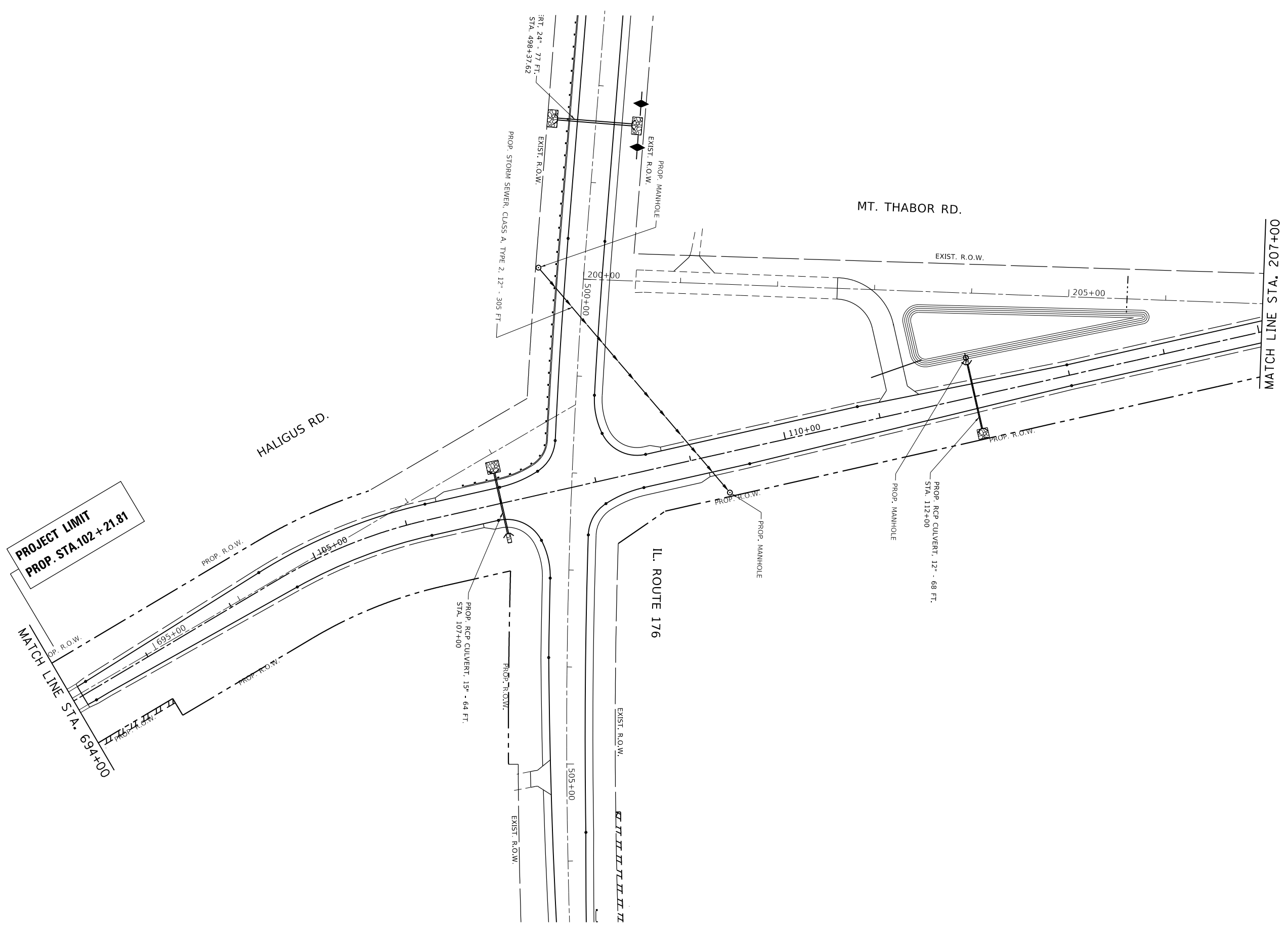
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	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -			335	120N-4	MCHENRY	126	54
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PROJECT LIMIT
PROP. STA. 102 + 21.81

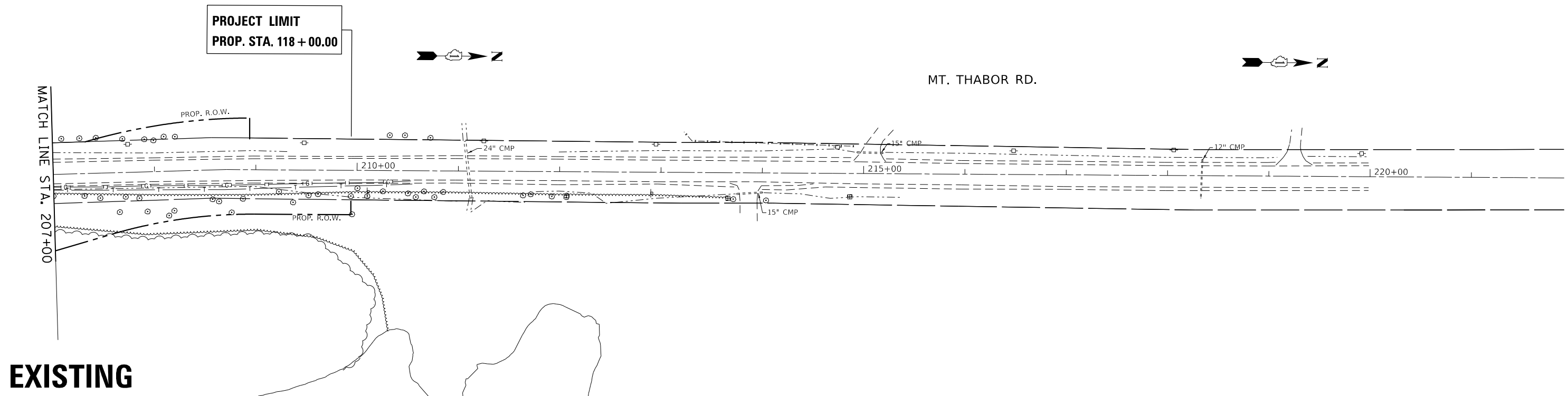
MATCH LINE STA. 694+00

MATCH LINE STA. 207+00

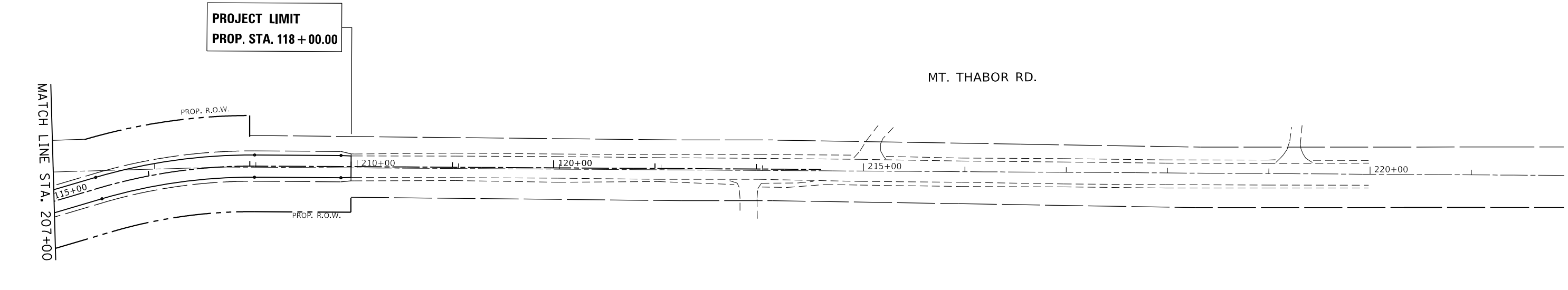


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	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -					335	120N-4	MCHENRY	126	55
Default	PLOT DATE = 3/22/2019	DATE -	REVISED -	SCALE: 1" = 50'	SHEET	OF	SHEETS	STA.	TO	STA.	ILLINOIS FED. AID PROJECT CONTRACT NO. 62C06	



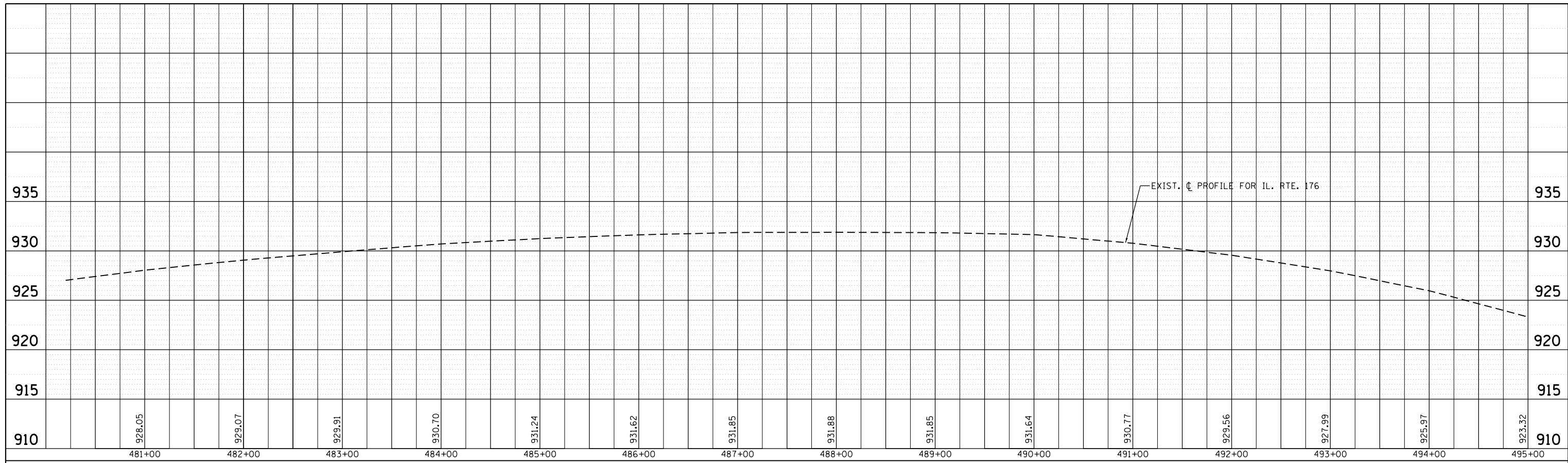
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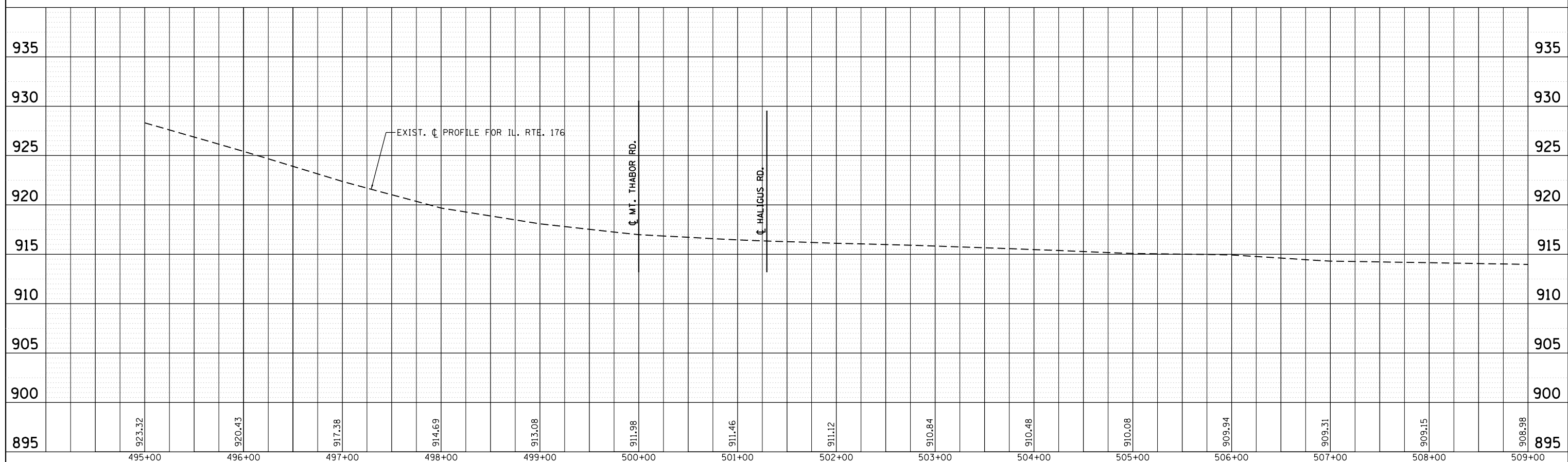
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	PLOT DATE = 3/22/2019					SCALE: 1" = 50'	SHEET	OF	SHEETS	STA.	TO STA.

PLAN	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	ALIGNMENT		
	CHECKED		
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PROFILE	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
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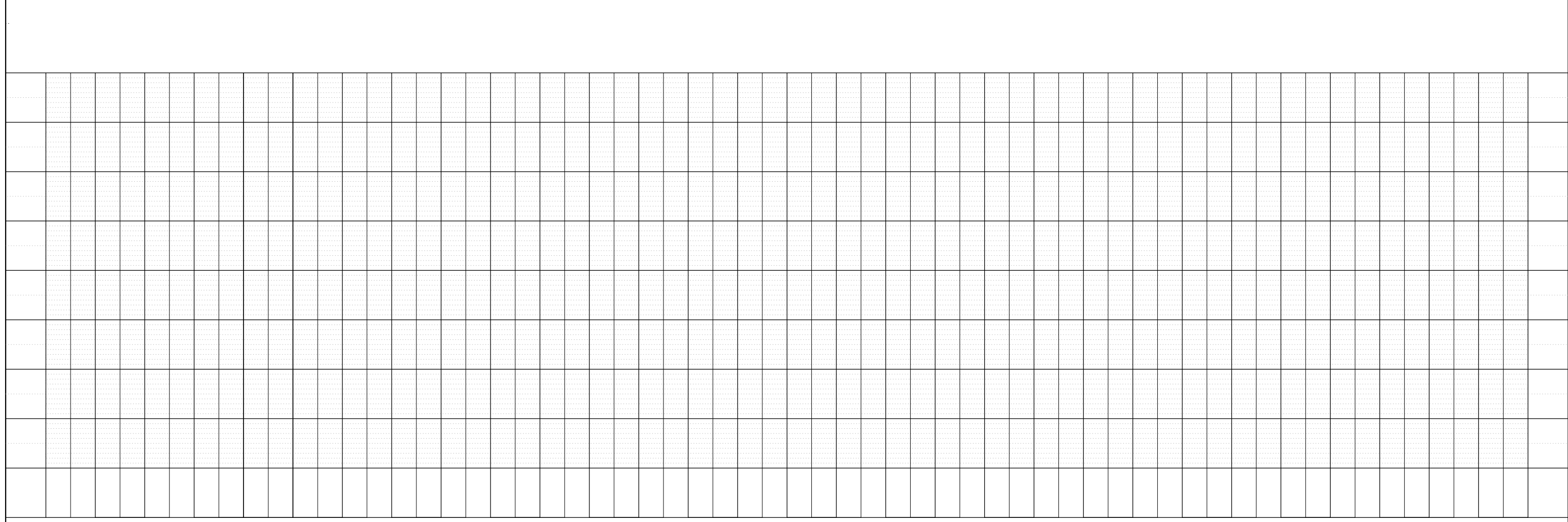
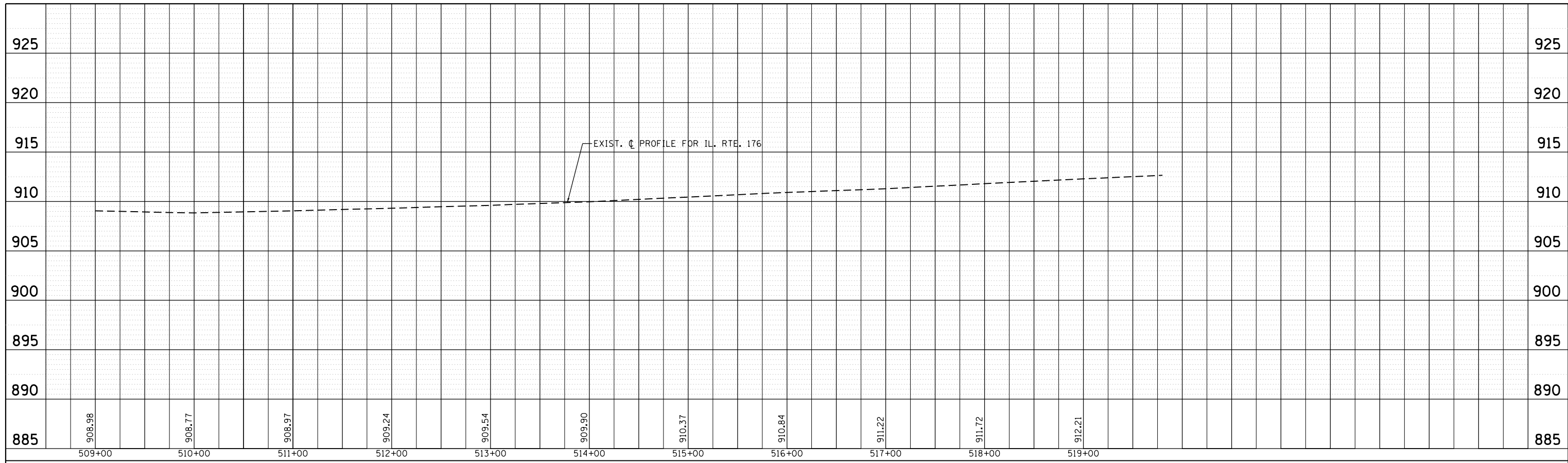


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Default	DATE -	REVISED -	REVISED -			ILLINOIS FED. AID PROJECT				

SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNMENT		
	CHECKED		
	FILE NAME		
	NO.		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES		
	CHECKED		
	STRUCTURE		
	NOT AT THIS OFFICE		
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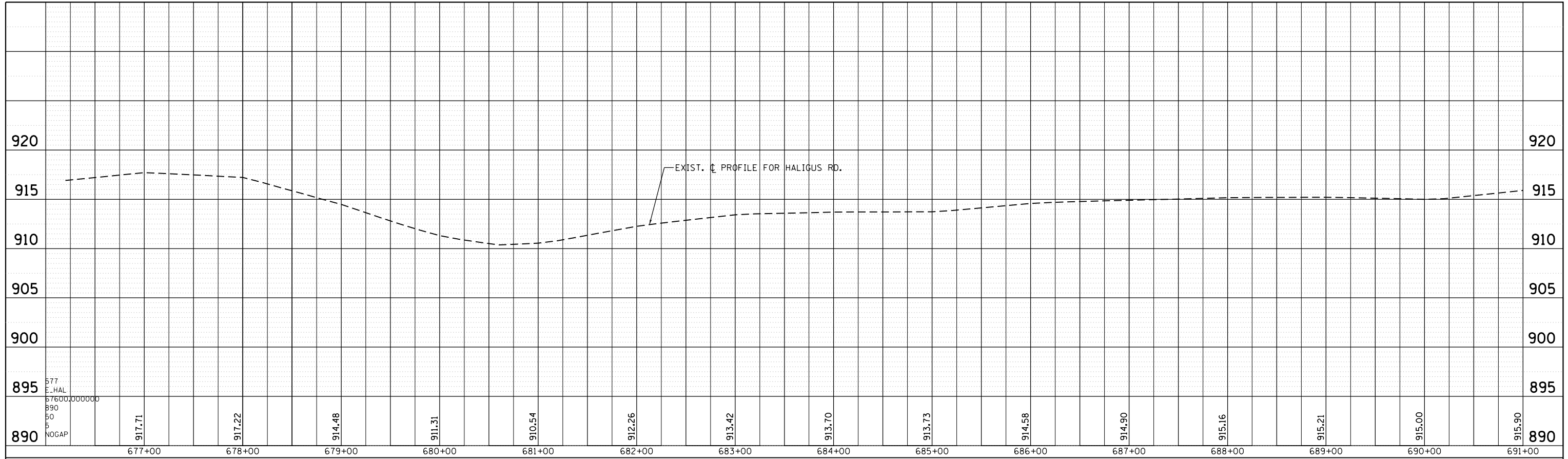
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXISTING AND PROPOSED DRAINAGE PROFILE
IL. RTE. 176 AT HALIGUS RD. / MT. THABOR RD**

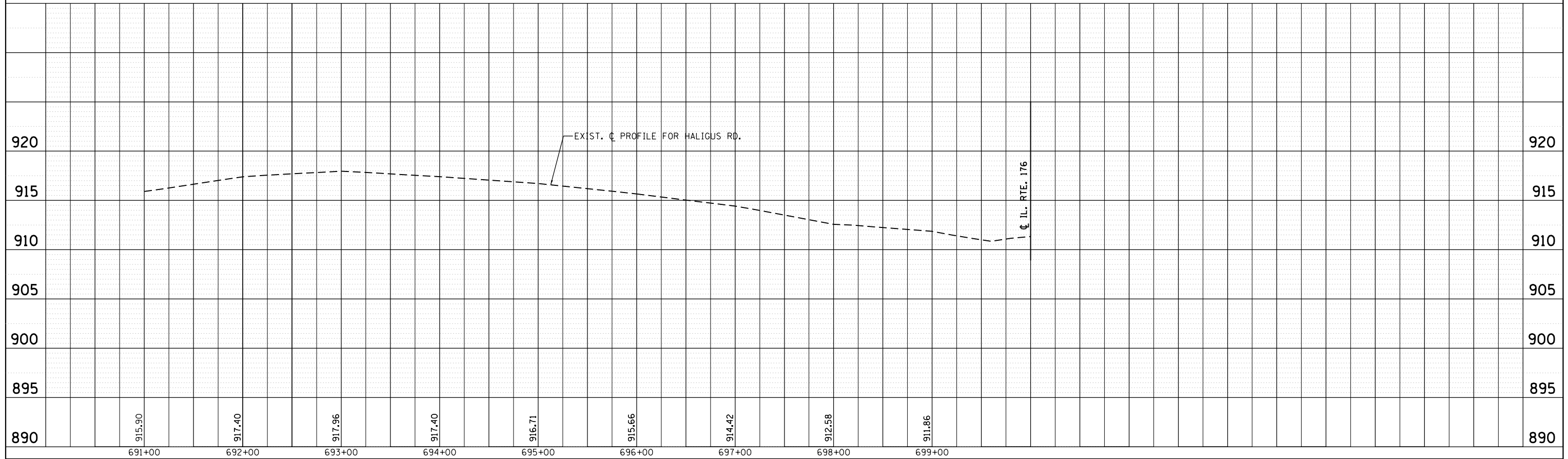
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	120N-4	MCHENRY	126	58
				CONTRACT NO. 62C06
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
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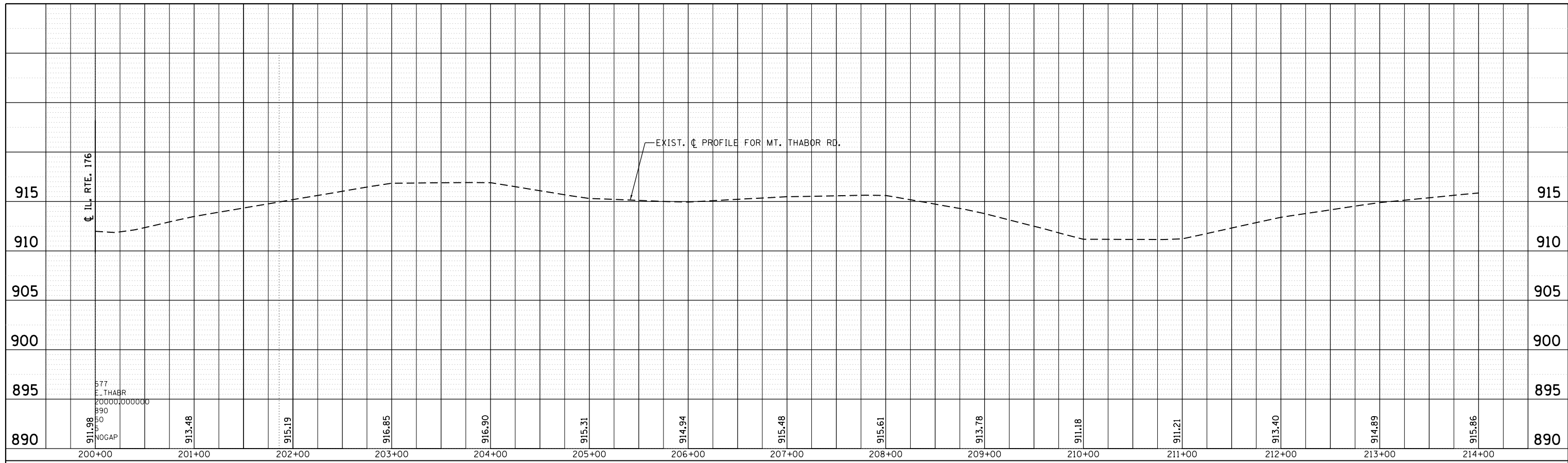


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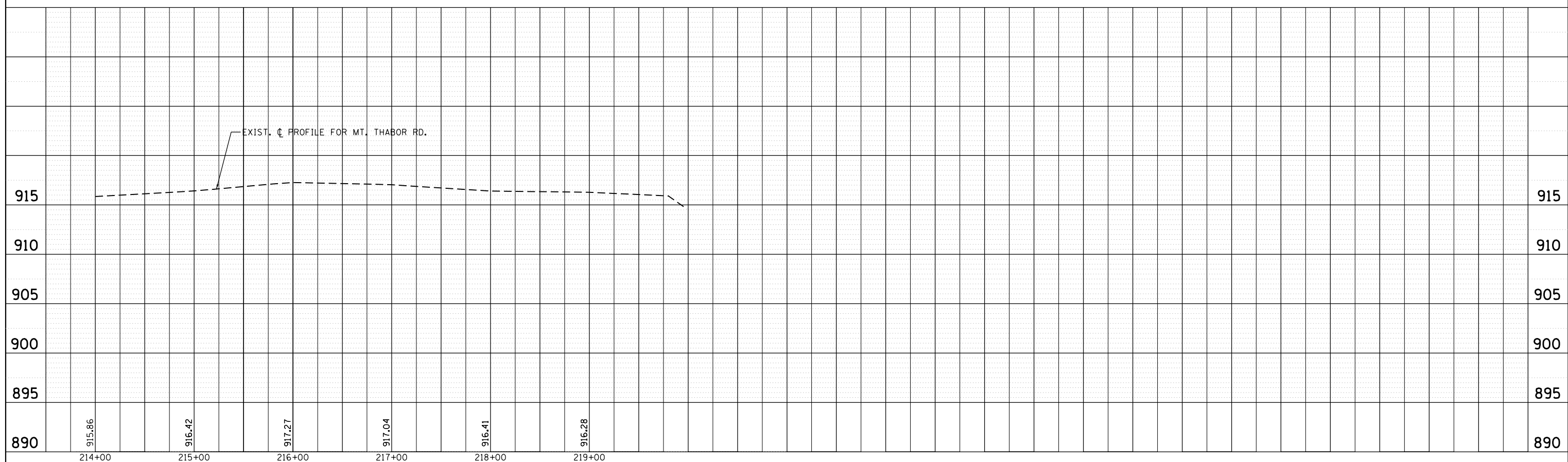


FILE NAME =	USER NAME = Bilgramisa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING AND PROPOSED DRAINAGE PROFILE IL. RTE. 176 AT HALIGUS RD. / MT. THABOR RD	F.A.P. RTE. 335	SECTION 120N-4	COUNTY MCHENRY	TOTAL SHEETS 126	SHEET NO. 59	
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Default	PLOT DATE = 3/22/2019	DATE -	REVISED -			SCALE: 1" = 50'	SHEET OF SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT			

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	ALIGNMENT CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NO. _____		
	FILE NAME _____		



PROFILE	SURVEYED	BY	DATE
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	STRUCTURE NOTATIONS CHECKED		
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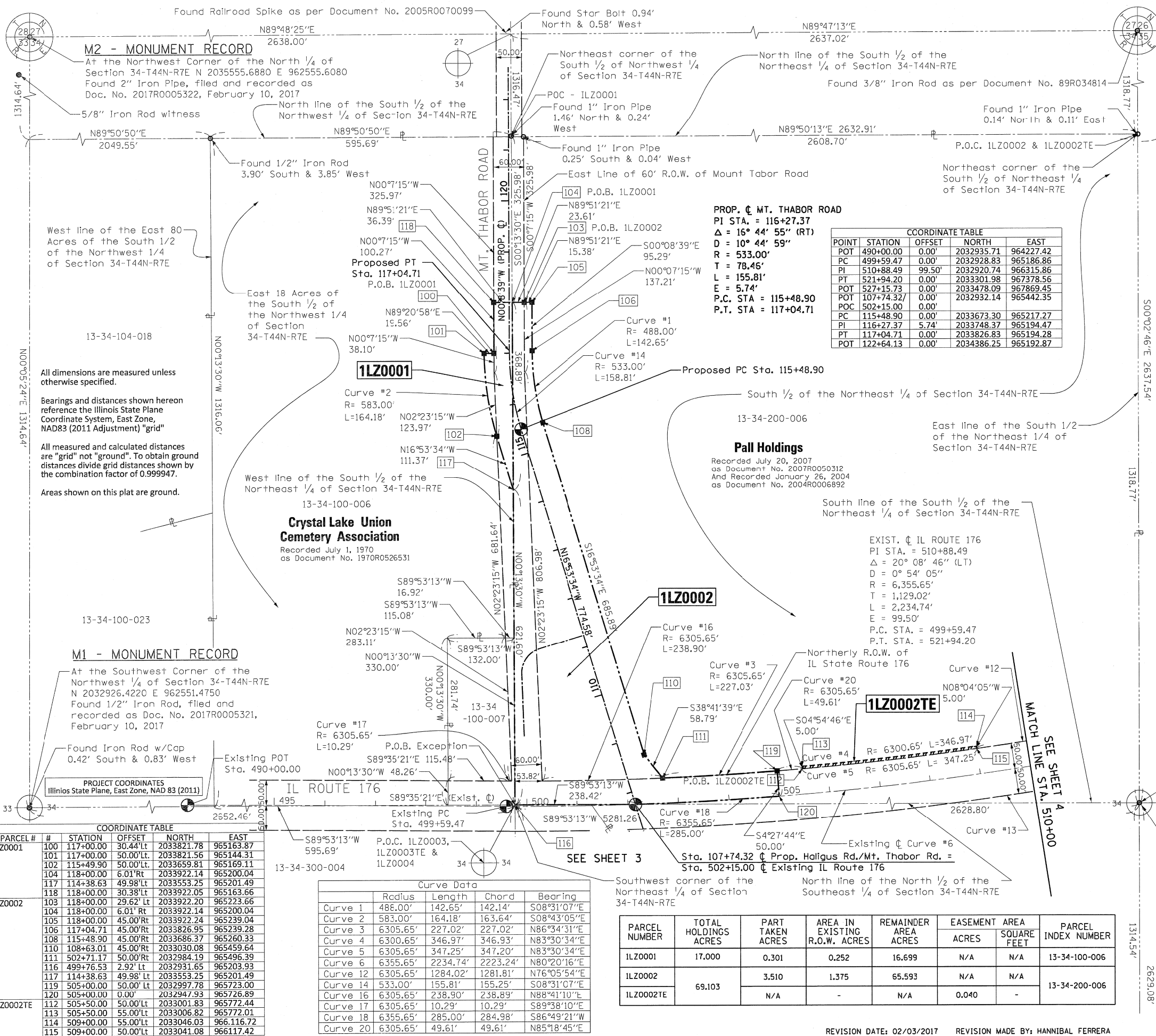
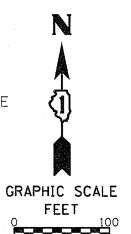
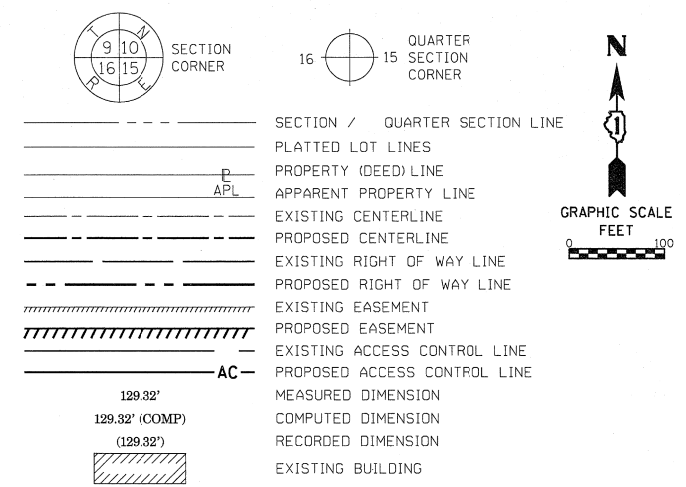
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		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING AND PROPOSED DRAINAGE PROFILE			
IL. RTE. 176 AT HALIGUS RD. / MT. THABOR RD			
SCALE: 1" = 50'	SHEET	OF	SHEETS
	STA.		TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	120N-4	MCHENRY	126	60
CONTRACT NO. 62C06				
ILLINOIS FED. AID PROJECT				

LEGEND



COORDINATE TABLE

POINT	STATION	OFFSET	NORTH	EAST
POT	490+00.00	0.00'	2032935.71	964227.42
PC	499+59.47	0.00'	2032928.83	965186.86
PI	510+88.49	99.50'	2032920.74	966315.86
PT	521+94.20	0.00'	2033301.98	967378.56
POT	527+15.73	0.00'	2033478.09	967869.45
POT	107+74.32	0.00'	2032932.14	965442.35
POC	502+15.00	0.00'		
PC	115+48.90	0.00'	2033673.30	965217.27
PI	116+27.37	5.74'	2033748.37	965194.47
PT	117+04.71	0.00'	2033826.83	965194.28
POT	122+64.13	0.00'	2034386.25	965192.87

PROP. C. MT. THABOR ROAD
 PI STA. = 116+27.37
 $\Delta = 16^\circ 44' 55''$ (RT)
 $D = 10^\circ 44' 59''$
 $R = 533.00'$
 $T = 78.46'$
 $L = 155.81'$
 $E = 5.74'$
 $P.C. STA = 115+48.90$
 $P.T. STA = 117+04.71$

Pall Holdings
 Recorded July 20, 2007
 as Document No. 2007R0050312
 And Recorded January 26, 2004
 as Document No. 2004R0006892

EXIST. C. IL ROUTE 176
 PI STA. = 510+88.49
 $\Delta = 20^\circ 08' 46''$ (LT)
 $D = 0^\circ 54' 05''$
 $R = 6,355.65'$
 $T = 1,129.02'$
 $L = 2,234.74'$
 $E = 99.50'$
 $P.C. STA. = 499+59.47$
 $P.T. STA. = 521+94.20$

COORDINATE TABLE

PARCEL #	#	STATION	OFFSET	NORTH	EAST
1LZ0001	100	117+00.00	30.44'Lt	2033821.78	965163.87
1LZ0001	101	117+00.00	50.00'Lt	2033821.56	965144.31
1LZ0001	102	115+49.90	50.00'Lt	2033659.81	965169.11
1LZ0001	104	118+00.00	6.01'Rt	2033922.14	965200.04
1LZ0001	117	114+38.63	49.98'Lt	2033553.25	965201.49
1LZ0001	118	118+00.00	30.38'Lt	2033922.05	965163.66
1LZ0002	103	118+00.00	29.62'Lt	2033922.20	965223.66
1LZ0002	104	118+00.00	6.01'Rt	2033922.14	965200.04
1LZ0002	105	118+00.00	45.00'Rt	2033922.24	965239.04
1LZ0002	106	117+04.71	45.00'Rt	2033826.95	965239.28
1LZ0002	108	115+48.90	45.00'Rt	2033686.37	965260.33
1LZ0002	110	108+63.01	45.00'Rt	2033030.08	965459.64
1LZ0002	111	502+71.17	50.00'Rt	2032984.19	965496.39
1LZ0002	116	499+76.53	2.92'Lt	2032931.65	965203.93
1LZ0002	117	114+38.63	49.98'Lt	2033553.25	965201.49
1LZ0002	119	505+00.00	50.00'Lt	2032997.78	965723.00
1LZ0002	120	505+00.00	0.00'	2032947.93	965726.89
1LZ0002TE	112	505+50.00	50.00'Lt	2033001.83	965772.44
1LZ0002TE	113	505+50.00	55.00'Lt	2033006.82	965772.01
1LZ0002TE	114	509+00.00	55.00'Lt	2033046.03	966116.72
1LZ0002TE	115	509+00.00	50.00'Lt	2033041.08	966117.42

Curve Data

Curve	Radius	Length	Chord	Bearing
Curve 1	486.00'	142.65'	142.14'	S08°31'07"E
Curve 2	583.00'	164.18'	163.64'	S08°43'05"E
Curve 3	6305.65'	227.02'	227.02'	N86°34'31"E
Curve 4	6300.65'	346.97'	346.93'	N83°30'34"E
Curve 5	6305.65'	347.25'	347.20'	N83°30'34"E
Curve 6	6355.65'	2234.74'	2223.24'	N80°20'16"E
Curve 12	6305.65'	1284.02'	1281.81'	N76°05'54"E
Curve 14	533.00'	155.81'	155.25'	S08°31'07"E
Curve 16	6305.65'	238.90'	238.89'	N88°41'10"E
Curve 17	6305.65'	10.29'	10.29'	S89°38'10"E
Curve 18	6355.65'	285.00'	284.98'	S86°49'21"W
Curve 20	6305.65'	49.61'	49.61'	N85°18'45"E

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT ACRES	AREA SQUARE FEET	PARCEL INDEX NUMBER
1LZ0001	17.000	0.301	0.252	16.699	N/A	N/A	13-34-100-006
1LZ0002	69.103	3.510	1.375	65.593	N/A	N/A	13-34-200-006
1LZ0002TE		N/A		N/A	0.040	-	

STATE OF ILLINOIS)
) SS
 COUNTY OF COOK)

THIS IS TO CERTIFY THAT I, HERBERT GRUEN, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 34, TOWNSHIP 44 NORTH, RANGE 7 EAST OF THE THIRD PRINCIPAL MERIDIAN, MCHENRY COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT _____, ILLINOIS THIS _____ DAY OF _____ 20__ A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-3402
 LICENSE EXPIRATION DATE: NOVEMBER 30, 2016

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



APEX Consulting Engineers, LLC
 111 E. Wacker Drive, Suite 520
 Chicago, Illinois 60601
 (312) 977-0660

PLAT OF HIGHWAYS
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 IL Route 176
 LIMITS: e Haligus Rd./Mt Thabor Rd. COUNTY: McHenry JOB NO.: R91-042-13
 SECTION: STA. 500+28.37 TO STA. 509+00.00 TOTAL SHEET NO. 126
 STA. 100+00.00 TO STA. 118+00.00 SHEETS 64
 SCALE: 1"=100'

IDOT USE ONLY
 RECEIVED
 MAR 03 2017
 PLATS & LEGALS

PART OF SEC. 34, IN TWP. 44 N., R. 7 E. OF THE 3RD. P.M., IN MCHENRY COUNTY, ILLINOIS.

SEE SHEET 4

P.O.B. - Exception
Northeast corner of the
Southeast Quarter -
Section 34-T44N-R7E

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
EXISTING ACCESS CONTROL LINE
PROPOSED ACCESS CONTROL LINE
MEASURED DIMENSION
COMPUTED DIMENSION
RECORDED DIMENSION
EXISTING BUILDING

BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD83 (2011 ADJUSTMENT) GRID.

- 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
- M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS.
- ⊙ PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET

COORDINATE TABLE

POINT	STATION	OFFSET	NORTH	EAST
POT	490+00.00	0.00'	2032935.71	964227.42
PC	499+59.47	0.00'	2032928.83	965186.86
PI	510+88.49	99.50'	2032920.74	966315.86
PT	521+94.20	0.00'	2033301.98	967378.56
POT	527+15.73	0.00'	2033478.09	967869.45
POT	100+00.00	0.00'	2032263.69	965819.79
PC	104+55.74	0.00'	2032637.50	965559.09
PI	105+40.15	6.64'	2032706.74	965510.80
PT	106+23.17	0.00'	2032787.51	965486.27
POT	107+74.32/	0.00'	2032932.14	965442.35
POC	502+15.00	0.00'		
PC	115+48.90	0.00'	2033673.30	965217.27
PI	116+27.37	5.74'	2033748.37	965194.47
PT	117+04.71	0.00'	2033826.83	965194.28
POT	122+64.13	0.00'	2034386.25	965192.87

Curve Data

Curve	Radius	Length	Chord	Bearing
Curve 6	6355.65'	2234.74'	2223.24'	N80°20'16"E
Curve 7	6405.65'	150.03'	150.03'	N89°34'56"E
Curve 8	578.00'	128.16'	127.90'	S28°32'23"E
Curve 9	463.00'	145.45'	144.85'	S25°33'32"E
Curve 10	6405.65'	305.50'	305.47'	N86°41'15"E
Curve 11	6415.65'	199.30'	199.30'	N86°25'40"E
Curve 13	6405.65'	1706.76'	1701.72'	N77°33'48"E
Curve 15	533.00'	167.44'	166.75'	S25°33'32"E
Curve 18	6355.65'	285.00'	284.98'	N86°49'21"E
Curve 19	1095.00'	107.75'	107.71'	S31°40'51"E

COORDINATE TABLE

PARCEL #	#	STATION	OFFSET	NORTH	EAST
1LZ0003TE	127	103+00.00	55.00'Rt	2032541.22	965693.29
	128	101+00.00	55.00'Rt	2032377.18	965807.70
	129	101+00.00	40.00'Rt	2032368.60	965795.39
	130	100+00.00	40.00'Rt	2032286.57	965852.60
	131	100+00.00	24.90'Rt	2032277.93	965840.21
	132	103+00.00	50.00'Rt	2032538.36	965689.19
	133	102+00.00	50.00'Rt	2032456.34	965746.39
	134	102+00.00	31.13'Rt	2032442.81	965727.00

COORDINATE TABLE

PARCEL #	#	STATION	OFFSET	NORTH	EAST
1LZ0004	116	499+76.53	2.92'Rt	2032931.65	965203.93
	121	501+28.59	2.09'Rt	2032931.95	965355.93
	135	499+76.97	50.00'Rt	2032878.73	965204.14
	136	501+25.83	50.00'Rt	2032879.82	965354.17
	137	105+73.89	45.00'Lt	2032724.11	965461.08
	138	104+55.74	45.00'Lt	2032611.76	965522.18
	139	101+00.00	45.00'Lt	2032402.00	965668.47
	140	101+00.00	33.64'Lt	2032408.49	965677.78
	141	101+00.00	4.77'Lt	2032425.01	965701.47
1LZ0003	120	505+00.00	0.00'	2032947.93	965726.89
	122	505+00.00	60.00'Rt	2032888.11	965731.56
	123	503+02.56	70.00'Rt	2032875.70	965532.65
	124	106+23.17	70.00'Rt	2032807.85	965553.25
	125	104+55.74	70.00'Rt	2032677.54	965616.51
	126	103+00.00	70.00'Rt	2032549.80	965705.59
	132	103+00.00	50.00'Rt	2032538.36	965689.19
	133	102+00.00	50.00'Rt	2032456.34	965746.39
	134	102+00.00	31.13'Rt	2032442.81	965727.00
	141	101+00.00	4.77'Lt	2032425.01	965701.47

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT ACRES	AREA SQUARE FEET	PARCEL INDEX NUMBER
1LZ0003	67.786	1.387	0.786	66.399	N/A	N/A	13-34-400-011
1LZ0003TE		N/A	-	N/A	0.112	-	
1LZ0004	13.173	0.685	0.587	12.488	N/A	N/A	13-34-400-006 13-34-400-007

All dimensions are measured unless otherwise specified.
Bearings and distances shown hereon reference the Illinois State Plane Coordinate System, East Zone, NAD83 (2011 Adjustment) "grid"
All measured and calculated distances are "grid" not "ground". To obtain ground distances divide grid distances shown by the combination factor of 0.999947.
Areas shown on this plat are ground.

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

STATE OF ILLINOIS)
COUNTY OF COOK)

THIS IS TO CERTIFY THAT I, HERBERT GRUEN, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 34, TOWNSHIP 44 NORTH, RANGE 7 EAST OF THE THIRD PRINCIPAL MERIDIAN, MCHENRY COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT _____, ILLINOIS THIS ____ DAY OF _____ 20__ A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-3402
LICENSE EXPIRATION DATE: NOVEMBER 30, 2016

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



APEX Consulting Engineers, LLC
111 E. Wacker Drive, Suite 520
Chicago, Illinois 60601
(312) 977-0660

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
IL Route 176

LIMITS: e Haligus Rd./Mt Thabor Rd. COUNTY: McHenry JOB NO.: R91-042-13
SECTION: STA. 500+28.37 TO STA. 509+00.00
STA. 100+00.00 TO STA. 118+00.00
SCALE: 1"=100'

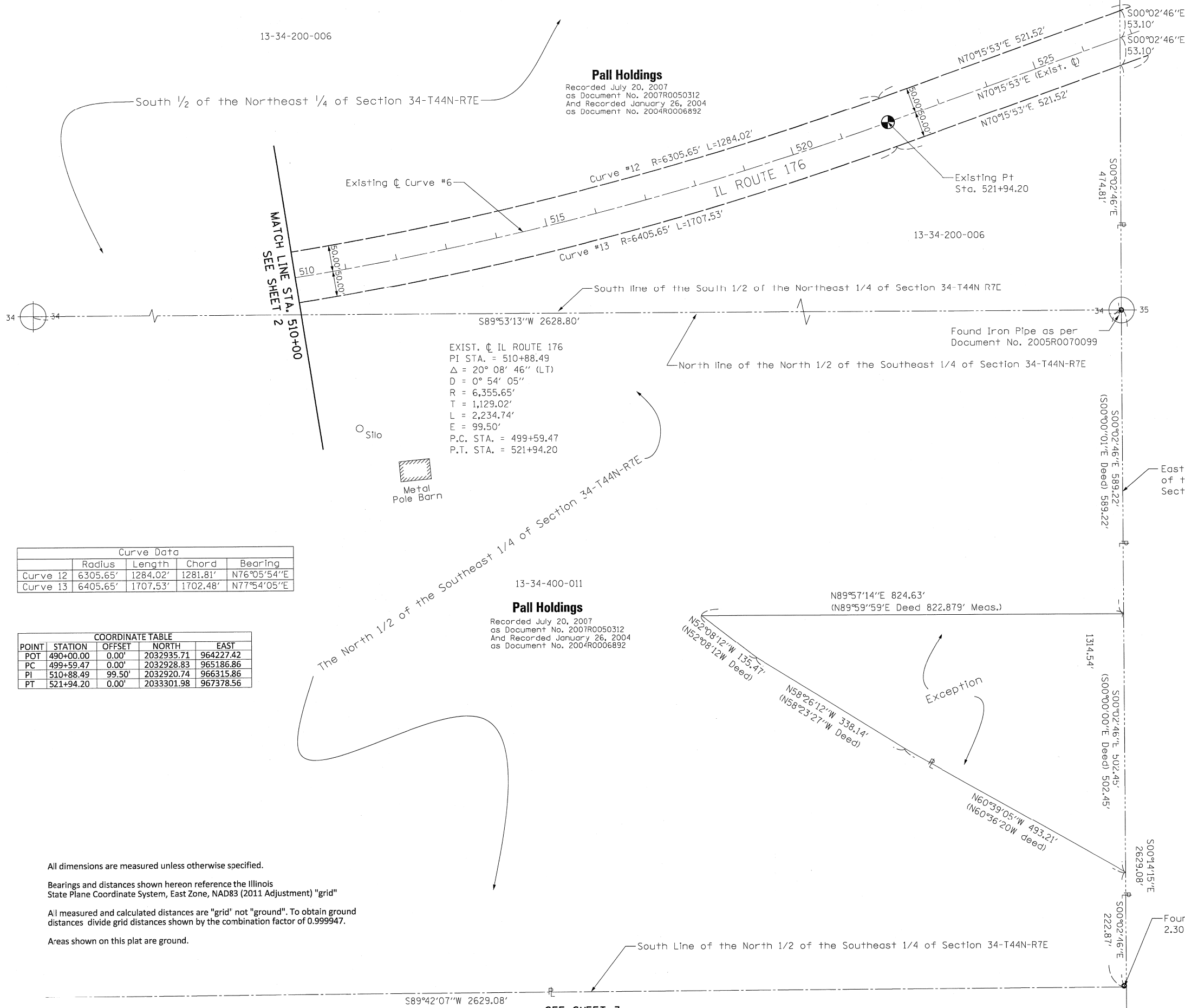
RECEIVED
MAY 10 2017

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

TOTAL SHEET NO. 126 OF 65

13-34-200-006

Pall Holdings
 Recorded July 20, 2007
 as Document No. 2007R0050312
 And Recorded January 26, 2004
 as Document No. 2004R0006892



LEGEND

SECTION CORNER: 9 10 15 16

QUARTER SECTION CORNER: 16 15

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

EXISTING ACCESS CONTROL LINE

PROPOSED ACCESS CONTROL LINE

MEASURED DIMENSION

COMPUTED DIMENSION

RECORDED DIMENSION

EXISTING BUILDING

BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD83 (2011 ADJUSTMENT) GRID.

○ 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

■ M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS.

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

□ RIGHT OF WAY STAKING PROPOSED TO BE SET

Curve Data

Curve	Radius	Length	Chord	Bearing
Curve 12	6305.65'	1284.02'	1281.81'	N76°05'54"E
Curve 13	6405.65'	1707.53'	1702.48'	N77°54'05"E

COORDINATE TABLE

POINT	STATION	OFFSET	NORTH	EAST
POT	490+00.00	0.00'	2032935.71	964227.42
PC	499+59.47	0.00'	2032928.83	965186.86
PI	510+88.49	99.50'	2032920.74	966315.86
PT	521+94.20	0.00'	2033301.98	967378.56

EXIST. C. IL ROUTE 176
 PI STA. = 510+88.49
 Δ = 20° 08' 46" (LT)
 D = 0° 54' 05"
 R = 6,355.65'
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 L = 2,234.74'
 E = 99.50'
 P.C. STA. = 499+59.47
 P.T. STA. = 521+94.20

Pall Holdings
 Recorded July 20, 2007
 as Document No. 2007R0050312
 And Recorded January 26, 2004
 as Document No. 2004R0006892

STATE OF ILLINOIS)
)
 COUNTY OF COOK)

THIS IS TO CERTIFY THAT I, HERBERT GRUEN, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 34, TOWNSHIP 44 NORTH, RANGE 7 EAST OF THE THIRD PRINCIPAL MERIDIAN, MCHENRY COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT _____, ILLINOIS THIS ____ DAY OF _____ 20__ A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-3402
 LICENSE EXPIRATION DATE: NOVEMBER 30, 2016

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



APEX Consulting Engineers, LLC
 111 E. Wacker Drive, Suite 520
 Chicago, Illinois 60601
 (312) 977-0660

PLAT OF HIGHWAYS
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 IL Route 176

LIMITS: e Haligus Rd./Mt Thabor Rd. COUNTY: McHenry
 SECTION: STA. 500+00.00 TO STA. 509+00.00 JOB NO.: R91-042-13
 STA. 100+00.00 TO STA. 118+00.00
 SCALE: 1"=100'

TOTAL SHEET NO. 126
 SHEETS NO. 66

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

IDOT USE ONLY

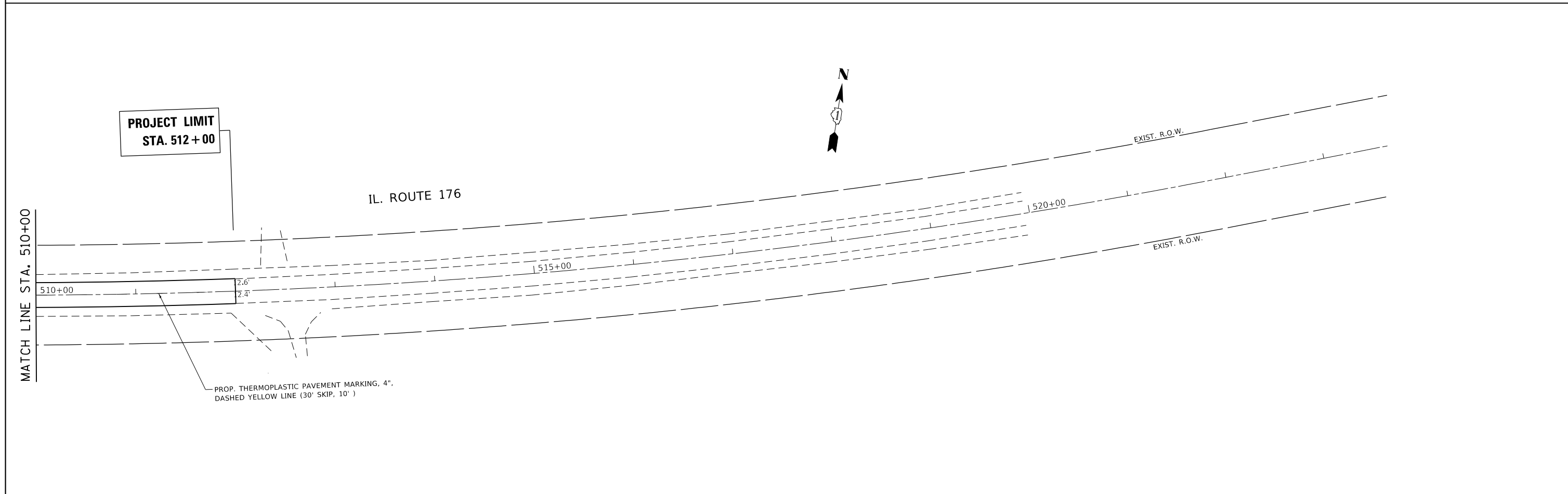
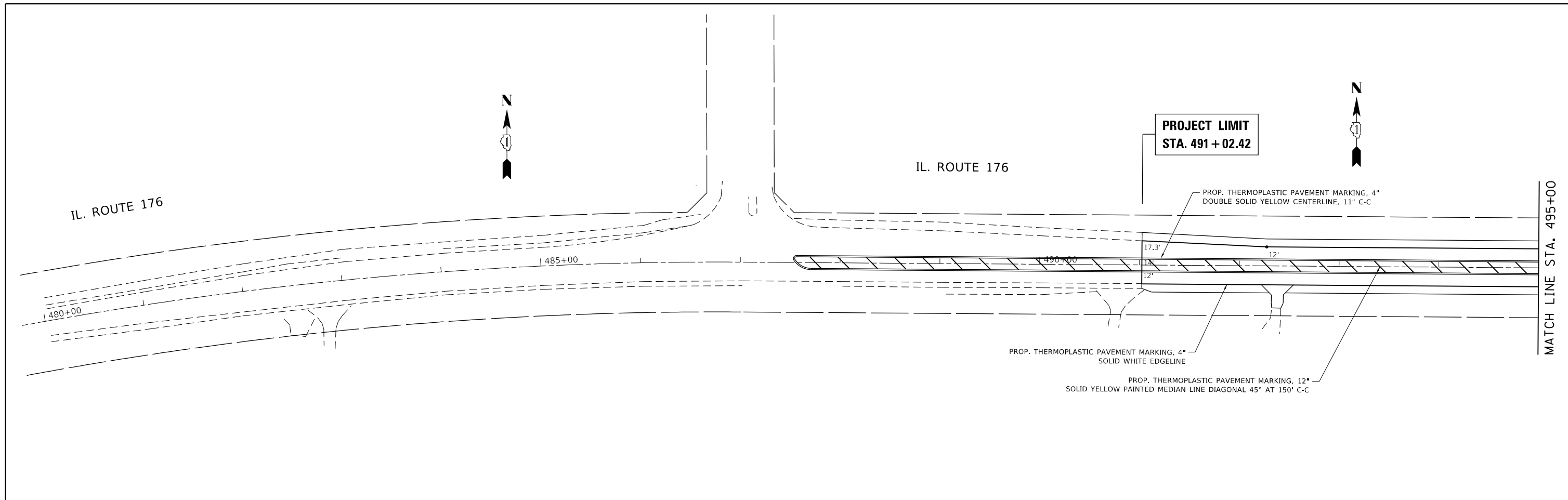
RECEIVED
 MAR 03 2017
 PLATS & LEGALS

All dimensions are measured unless otherwise specified.

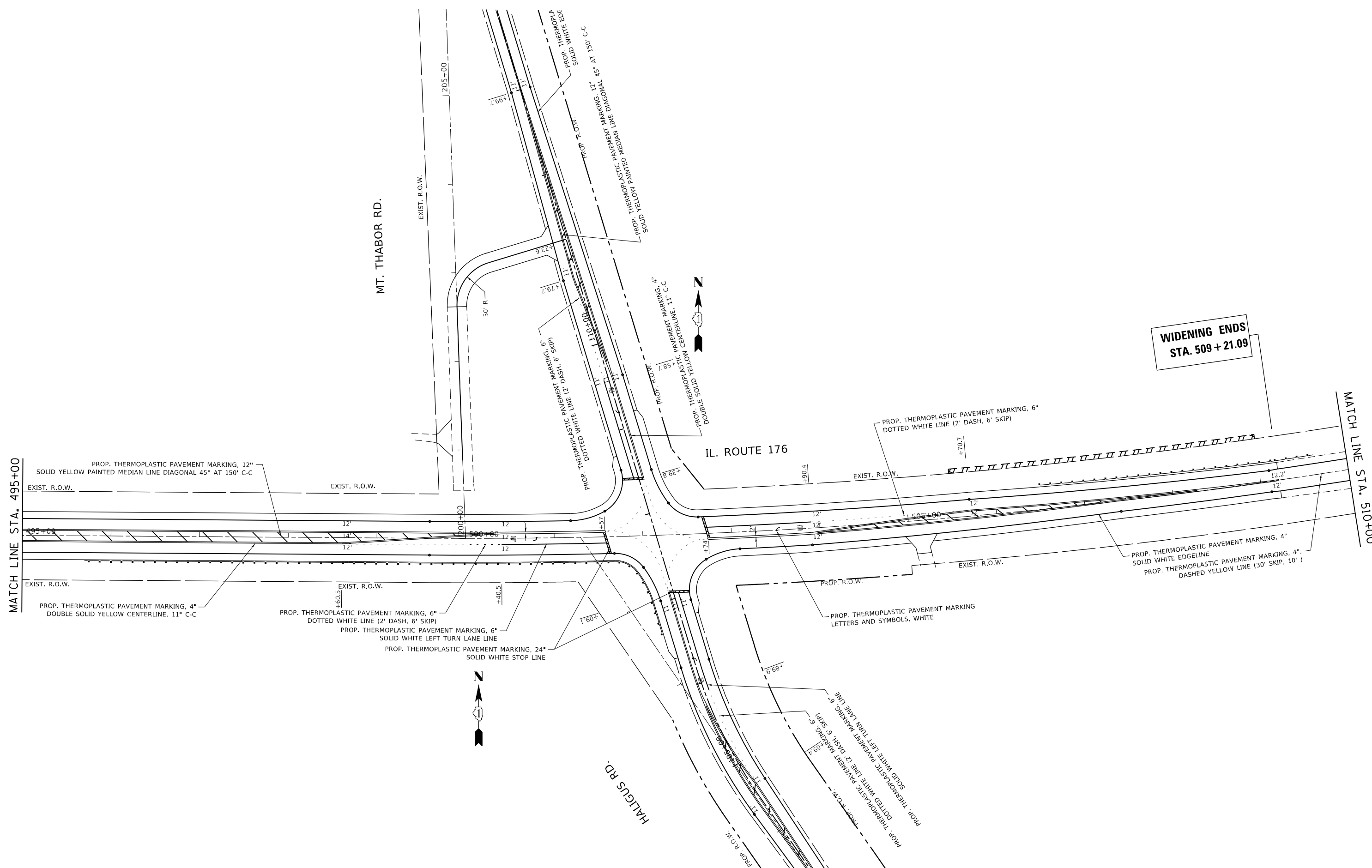
Bearings and distances shown hereon reference the Illinois State Plane Coordinate System, East Zone, NAD83 (2011 Adjustment) "grid"

All measured and calculated distances are "grid" not "ground". To obtain ground distances divide grid distances shown by the combination factor of 0.999947.

Areas shown on this plat are ground.



FILE NAME =	USER NAME = Bilgrimo	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED PAVEMENT MARKING PLAN IL. RTE. 176 AT HALIGUS RD. / MT. THABOR RD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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Default	PLOT DATE = 3/22/2019	DATE -	REVISED -			CONTRACT NO. 62C06			ILLINOIS FED. AID PROJECT		
						SCALE: 1" = 50'	SHEET OF SHEETS	STA. TO STA.			



**WIDENING ENDS
STA. 509 + 21.09**

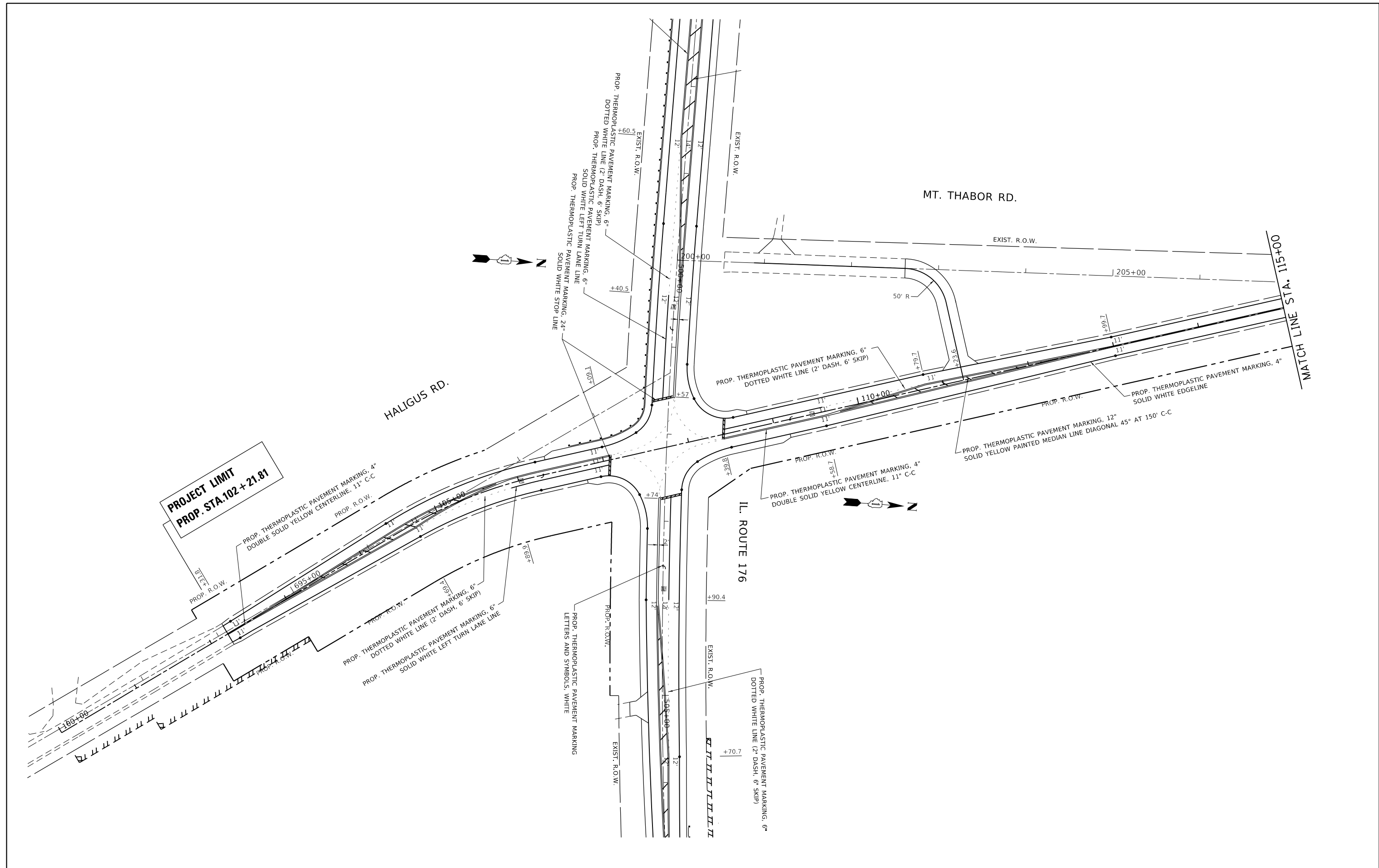
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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 3/22/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED PAVEMENT MARKING PLAN
IL. RTE. 176 AT HALIGUS RD. / MT. THABOR RD**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	120N-4	MCHENRY	126	68
CONTRACT NO. 62C06				
ILLINOIS FED. AID PROJECT				

SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.



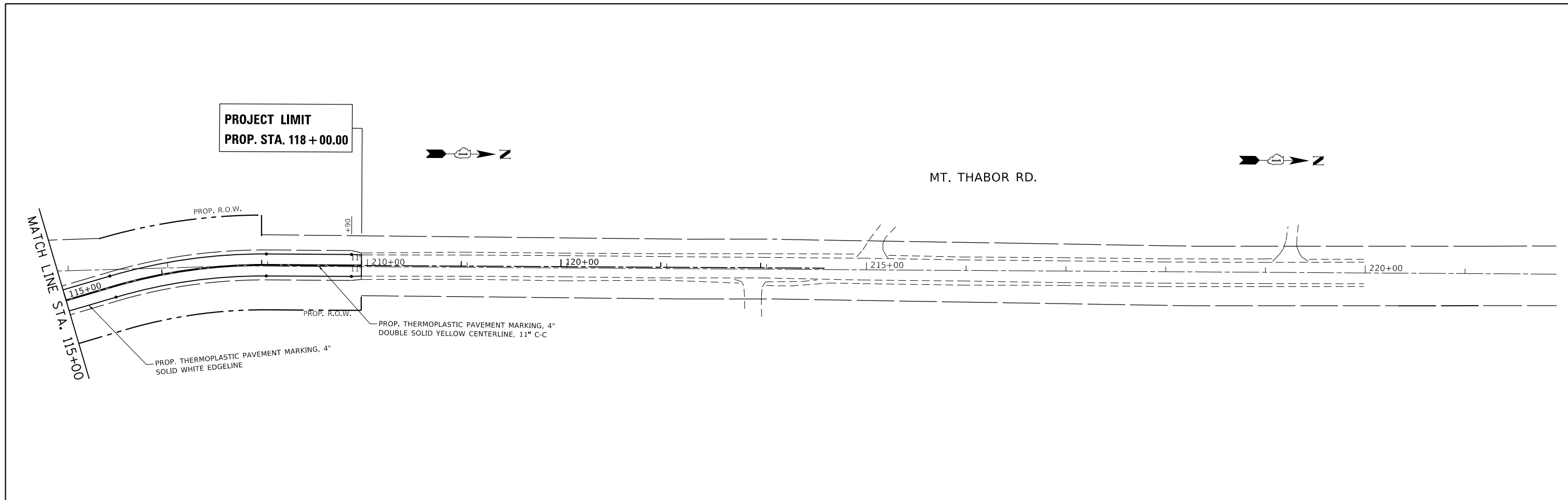
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED PAVEMENT MARKING PLAN
IL. RTE. 176 AT HALIGUS RD. / MT. THABOR RD**

SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	120N-4	MCHENRY	126	69
CONTRACT NO. 62C06				
ILLINOIS FED. AID PROJECT				



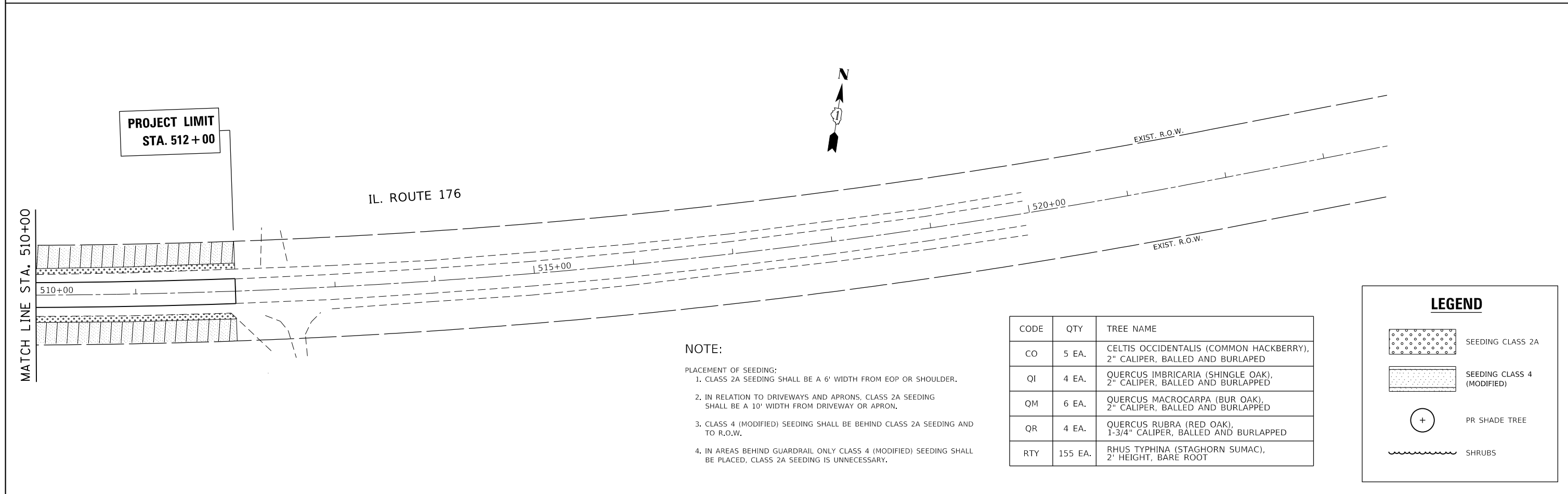
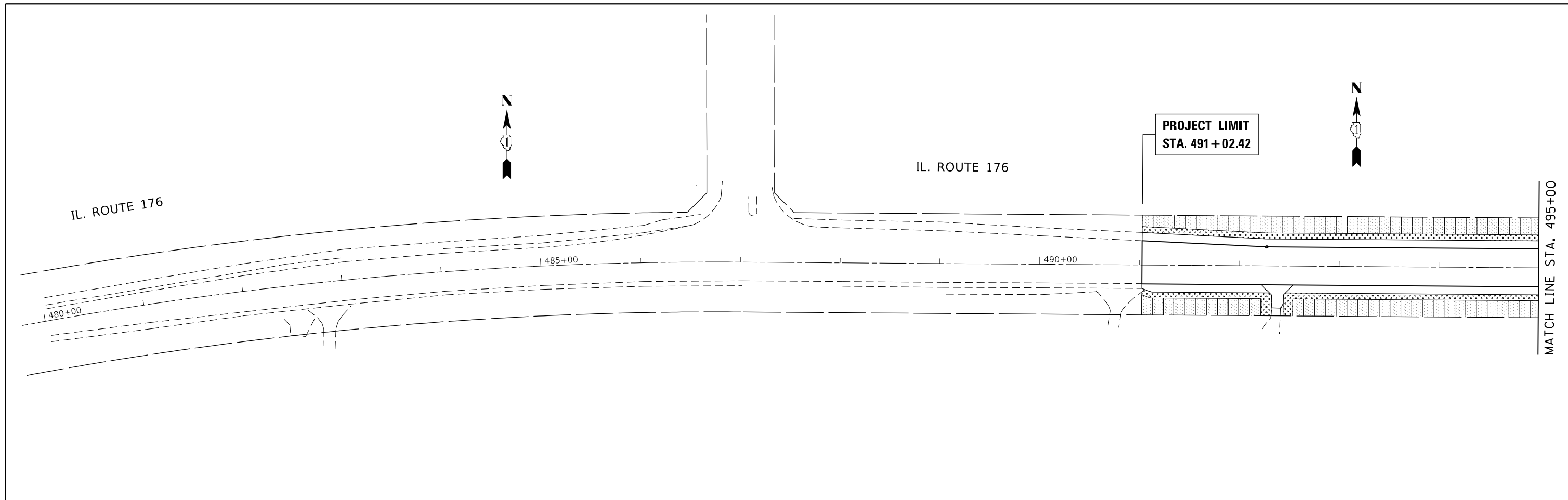
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Default	PLOT DATE = 3/22/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED PAVEMENT MARKING PLAN
IL. RTE. 176 AT HALIGUS RD. / MT. THABOR RD**

SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	120N-4	MCHENRY	126	70
CONTRACT NO. 62C06				
ILLINOIS FED. AID PROJECT				


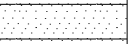

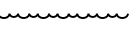


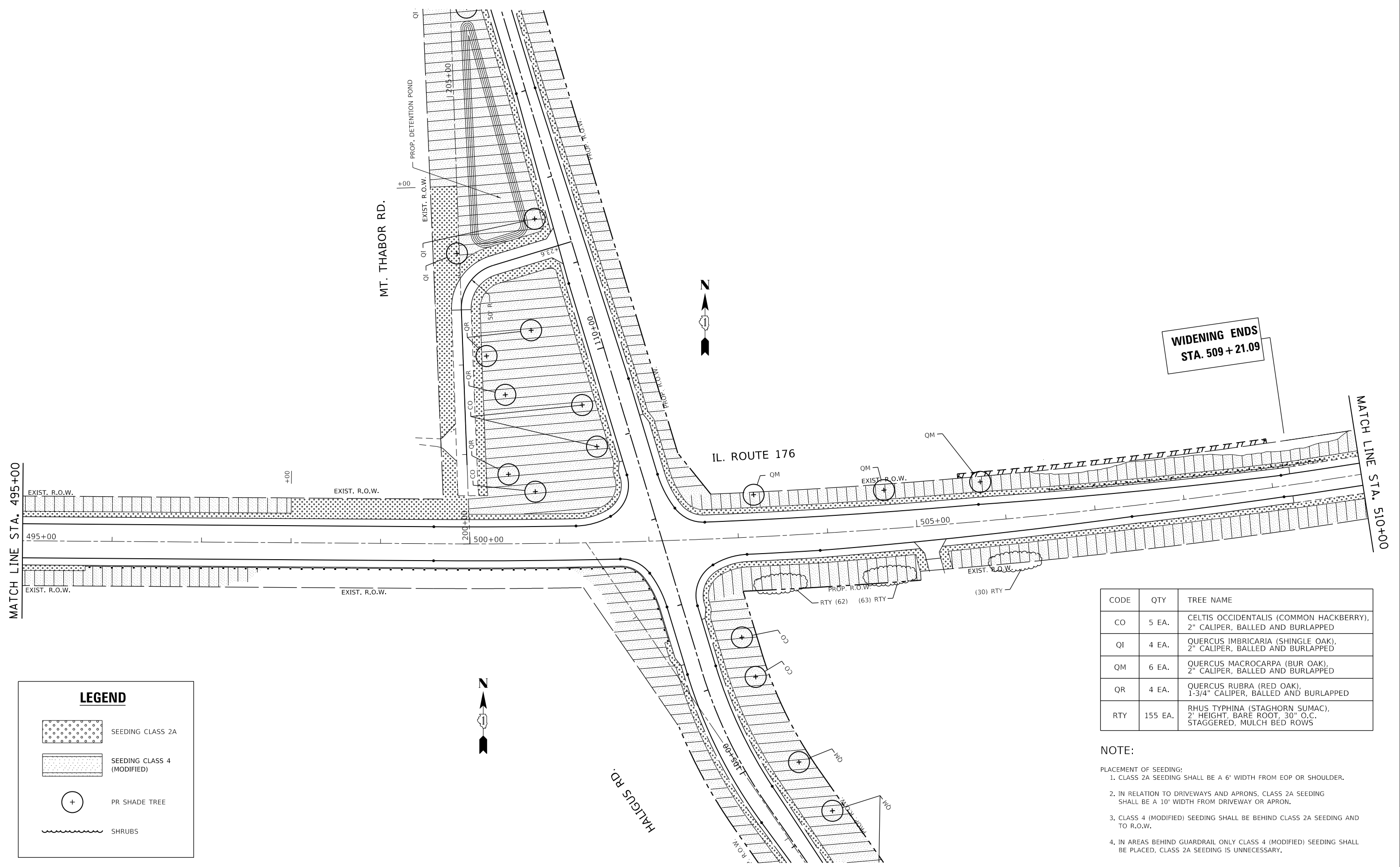
NOTE:

- PLACEMENT OF SEEDING:
1. CLASS 2A SEEDING SHALL BE A 6' WIDTH FROM EOP OR SHOULDER.
 2. IN RELATION TO DRIVEWAYS AND APRONS, CLASS 2A SEEDING SHALL BE A 10' WIDTH FROM DRIVEWAY OR APRON.
 3. CLASS 4 (MODIFIED) SEEDING SHALL BE BEHIND CLASS 2A SEEDING AND TO R.O.W.
 4. IN AREAS BEHIND GUARDRAIL ONLY CLASS 4 (MODIFIED) SEEDING SHALL BE PLACED, CLASS 2A SEEDING IS UNNECESSARY.

CODE	QTY	TREE NAME
CO	5 EA.	CELTIS OCCIDENTALIS (COMMON HACKBERRY), 2" CALIPER, BALLED AND BURLAPPED
QI	4 EA.	QUERCUS IMBRICARIA (SHINGLE OAK), 2" CALIPER, BALLED AND BURLAPPED
QM	6 EA.	QUERCUS MACROCARPA (BUR OAK), 2" CALIPER, BALLED AND BURLAPPED
QR	4 EA.	QUERCUS RUBRA (RED OAK), 1-3/4" CALIPER, BALLED AND BURLAPPED
RTY	155 EA.	RHUS TYPHINA (STAGHORN SUMAC), 2' HEIGHT, BARE ROOT

LEGEND

-  SEEDING CLASS 2A
-  SEEDING CLASS 4 (MODIFIED)
-  PR SHADE TREE
-  SHRUBS



**WIDENING ENDS
STA. 509 + 21.09**

LEGEND	
	SEEDING CLASS 2A
	SEEDING CLASS 4 (MODIFIED)
	PR SHADE TREE
	SHRUBS

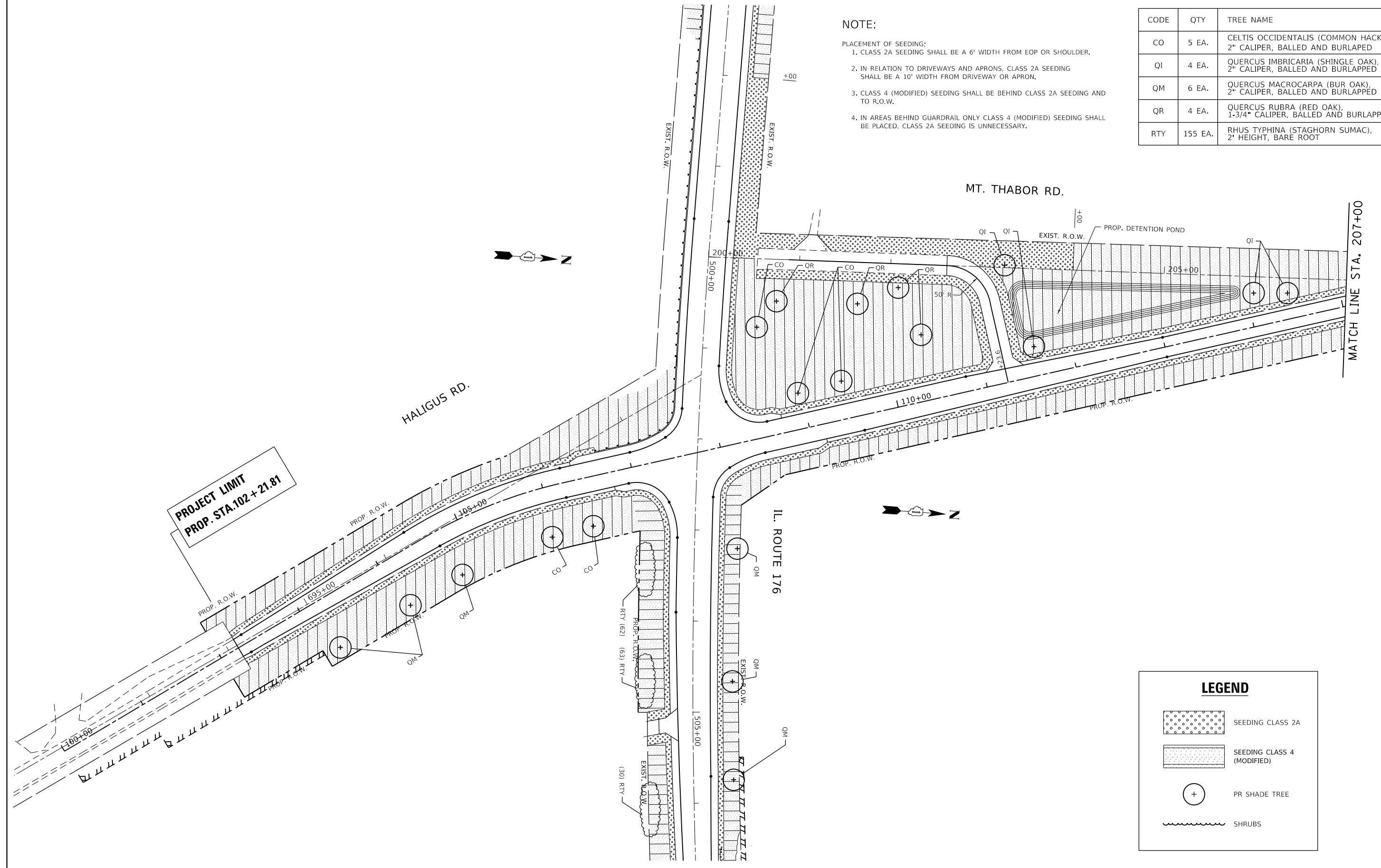
CODE	QTY	TREE NAME
CO	5 EA.	CELTIS OCCIDENTALIS (COMMON HACKBERRY), 2" CALIPER, BALLED AND BURLAPPED
QI	4 EA.	QUERCUS IMBRICARIA (SHINGLE OAK), 2" CALIPER, BALLED AND BURLAPPED
QM	6 EA.	QUERCUS MACROCARPA (BUR OAK), 2" CALIPER, BALLED AND BURLAPPED
QR	4 EA.	QUERCUS RUBRA (RED OAK), 1-3/4" CALIPER, BALLED AND BURLAPPED
RTY	155 EA.	RHUS TYPHINA (STAGHORN SUMAC), 2' HEIGHT, BARE ROOT, 30" O.C. STAGGERED, MULCH BED ROWS

- NOTE:**
1. CLASS 2A SEEDING SHALL BE A 6' WIDTH FROM EOP OR SHOULDER.
 2. IN RELATION TO DRIVEWAYS AND APRONS, CLASS 2A SEEDING SHALL BE A 10' WIDTH FROM DRIVEWAY OR APRON.
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CODE	QTY	TREE NAME
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QI	4 EA.	QUERCUS IMBRICARIA (SHINGLE OAK), 2" CALIPER, BALLED AND BURLAPED
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QR	4 EA.	QUERCUS RUBRA (RED OAK), 1-3/4" CALIPER, BALLED AND BURLAPED
RTY	155 EA.	RHUS TYPHINA (STAGHORN SUMAC), 2' HEIGHT, BARE ROOT



PROJECT LIMIT
PROP. STA. 102 + 21.81

LEGEND

	SEEDING CLASS 2A
	SEEDING CLASS 4 (MODIFIED)
	PR SHADE TREE
	SHRUBS

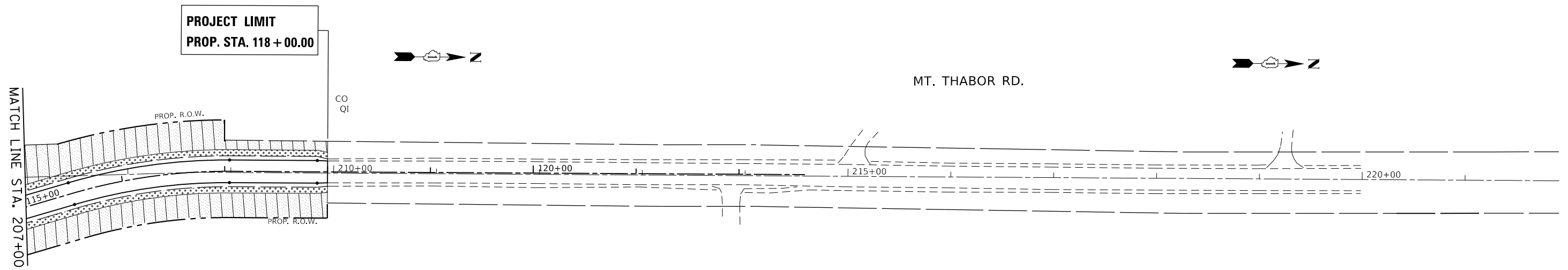
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	PLOT DATE = 3/22/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LANDSCAPING PLAN
IL. RTE. 176 AT HALIGUS RD. / MT. THABOR RD**

SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	120N-4	MCHENRY	126	73
				CONTRACT NO. 62C06
ILLINOIS FED. AID PROJECT				



NOTE:

- PLACEMENT OF SEEDING:
1. CLASS 2A SEEDING SHALL BE A 6' WIDTH FROM EOP OR SHOULDER.
 2. IN RELATION TO DRIVEWAYS AND APRONS, CLASS 2A SEEDING SHALL BE A 10' WIDTH FROM DRIVEWAY OR APRON.
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RTY	155 EA.	RHUS TYPHINA (STAGHORN SUMAC), 2' HEIGHT, BARE ROOT

LEGEND

	SEEDING CLASS 2A
	SEEDING CLASS 4 (MODIFIED)
	PR SHADE TREE
	SHRUBS

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LANDSCAPING PLAN
IL. RTE. 176 AT HALIGUS RD. / MT. THABOR RD**

SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.

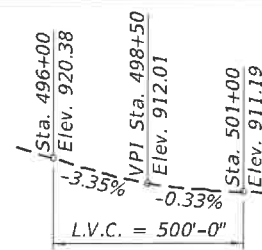
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	120N-4	MCHENRY	126	74
CONTRACT NO. 62C06				
ILLINOIS FED. AID PROJECT				

INDEX OF SHEETS

- S-1 General Plan and Elevation - Temporary Soil Retention System
- S-2 Temporary Soil Retention System Details
- S-3 General Plan and Elevation - Permanent Sheet Pile Wall No. 1
- S-4 Plan and Elevation - Permanent Sheet Pile Wall No. 2
- S-5 Permanent Sheet Pile Wall No. 2 Details
- S-6 - S-11 Soil Borings

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal and Disposal of Unsuitable Material	Cu Yd	6,828
Porous Granular Backfill	Cu Yd	6,828
Concrete Structures	Cu Yd	40.2
Stud Shear Connectors	Each	540
Reinforcement Bars, Epoxy Coated	Pound	3,260
Permanent Sheet Piling	Sq Ft	16,748
Temporary Soil Retention System	Sq Ft	6,355



CURVE DATA

P.I. Sta. = 510+8.49
 $\Delta = 20^\circ 08' 46''$ Lt.
 $D = 0^\circ 54' 05''$
 $R = 6,355.65'$
 $T = 1,129.02'$
 $L = 2,234.74'$
 $E = 99.50'$
 P.C. Sta. = 499+59.47
 P.T. Sta. = 521+94.20

DESIGN SPECIFICATIONS

2017 AASHTO LRFD Bridge Design Specifications, 8th Edition

DESIGN LOADING

HL 93 Loading

DESIGN STRESSES

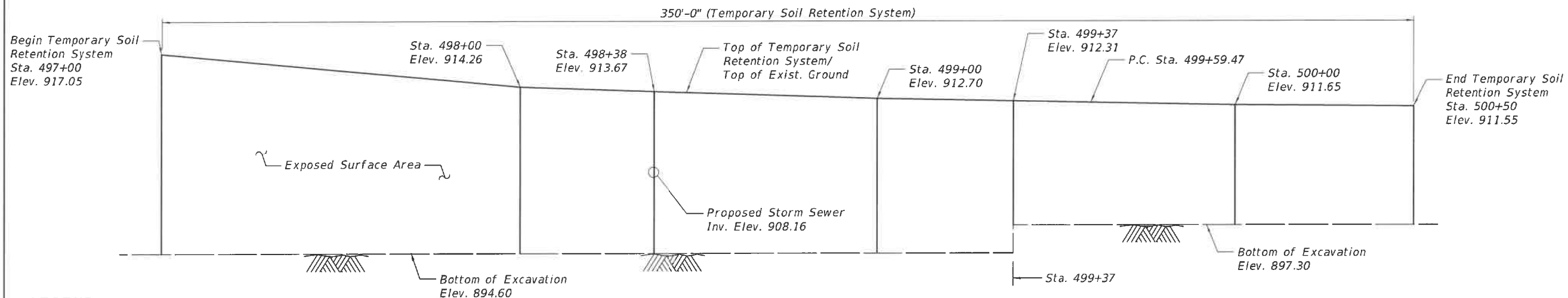
FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi (M270 Grade 50)



Sneha

DATE SIGNED: 10-18-2018
 EXP. DATE: 11-30-2018

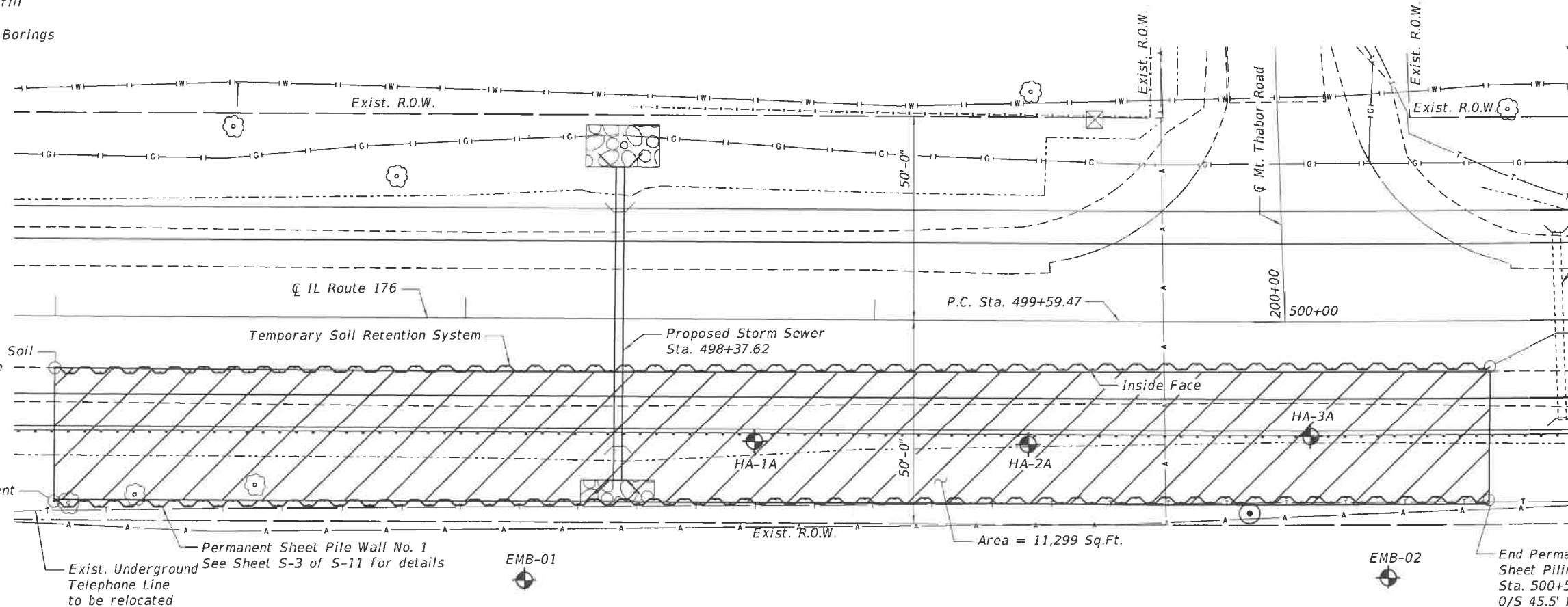


ELEVATION

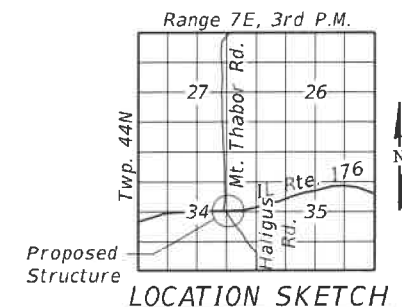
(Looking at Inside Face of Soil Retention)

LEGEND

- Removal of Unsuitable Material and Backfill with Porous Granular Backfill
- Soil Borings



PLAN



**GENERAL PLAN AND ELEVATION
 TEMPORARY SOIL RETENTION
 SYSTEM ALONG IL ROUTE 176**

**SECTION 102-N
 McHENRY COUNTY**

STATION 497+00 TO 500+50

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TEMPORARY SOIL RETENTION SYSTEM
 IL 176 SOIL IMPROVEMENT DETAILS**

SHEET S-1 OF S-11 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	120N-4	McHENRY	126	79
CONTRACT NO. 62C06				
ILLINOIS FED. AID PROJECT				

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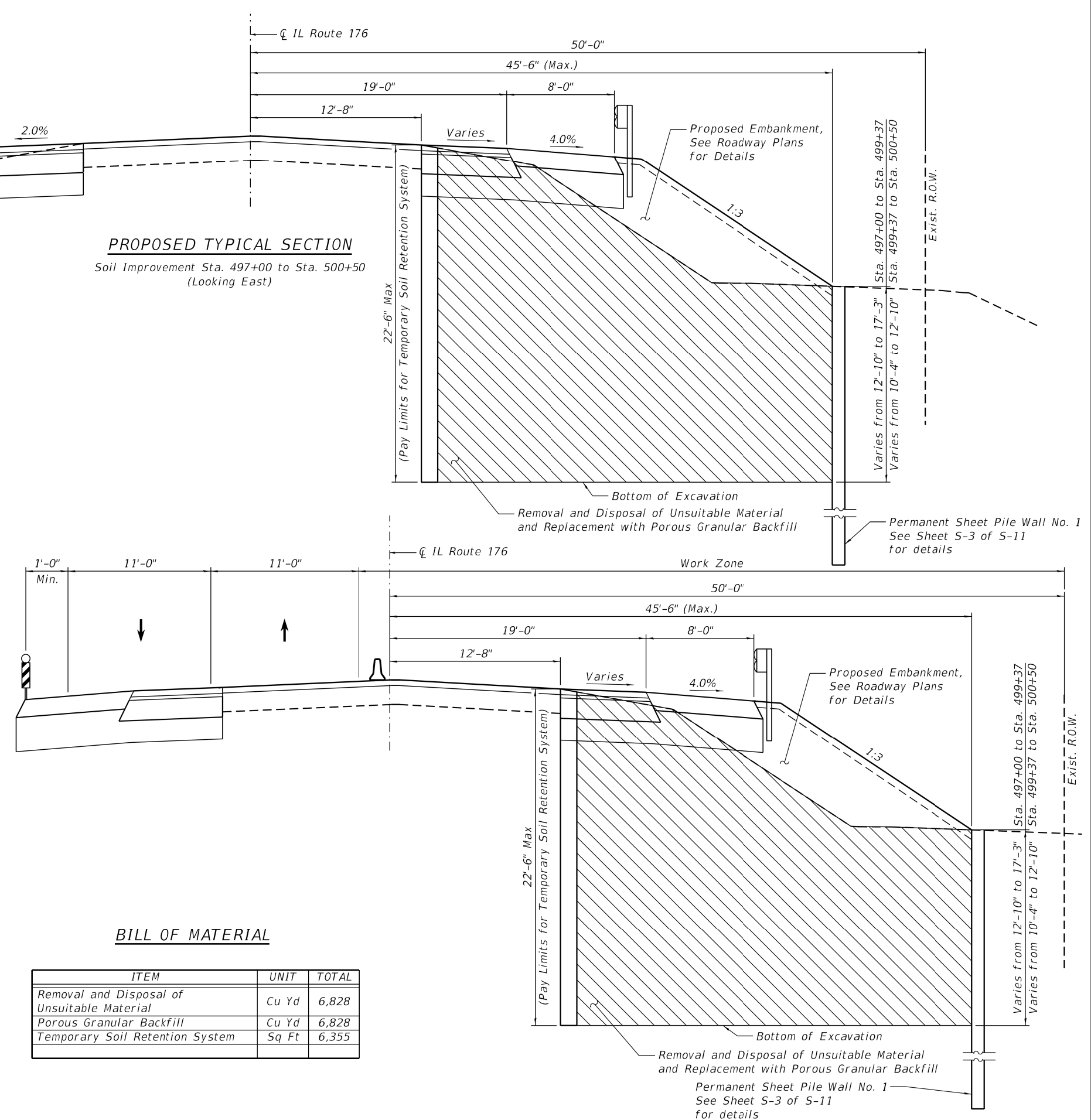
GENERAL NOTES:

- Construction of the Temporary Soil Retention System shall be as per Standard Specifications for Temporary Soil Retention System.
- Stations and Offsets for the Temporary Soil Retention System are given from \bar{C} IL Rte. 176 to the inside face of the Temporary Soil Retention System.
- Temporary Soil Retention System length is measured along the inside face.
- The Contractor shall field verify location of exist. utilities and shall take all precautions to protect exist. utilities during the construction of the retention system. Any damage to the exist. utilities shall be the responsibility of the Contractor.
- The Contractor shall provide access, barricading and fall protection in accordance with applicable OSHA guidelines as required during construction and as deemed necessary by the Engineer. The Contractor shall ensure that the retention system is properly installed before entering the excavation area.
- The retention system shall be installed in a manner that ensures soils are fully supported during all phases of work and that no voids exist between the retention system and existing soils.
- Groundwater may be present in the excavation areas. The Contractor shall consider this information when selecting equipment and construction methods. The Contractor will not be compensated for issues related to the groundwater.
- Any storage of construction equipment and/or material behind the Temporary Soil Retention System is not allowed.
- Contractor shall not support any construction equipment and/or material from any elements of Temporary Soil Retention System.
- Contractor shall develop details for the opening in the retention system for the proposed 24" storm sewer pipe. The Contractor shall submit plans and calculations, prepared and sealed by Illinois Licensed Structural Engineer, for review and approval prior to commencing any work and ordering material.
- For Boring Logs see Sheet S-6 - S-11 of S-11.

CONSTRUCTION SEQUENCE

- Construct Temporary Soil Retention System and Permanent Sheet Pile Wall No. 1.
- Excavate Unsuitable Material, and replace with Porous Granular Backfill. Construct Storm Sewer while placing Porous Granular Backfill.
- If Contractor elects to remove Temporary Soil Retention System, they should do so in a manner to not impact the Storm Sewer.

PROPOSED TYPICAL SECTION
 Soil Improvement Sta. 497+00 to Sta. 500+50
 (Looking East)



BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal and Disposal of Unsuitable Material	Cu Yd	6,828
Porous Granular Backfill	Cu Yd	6,828
Temporary Soil Retention System	Sq Ft	6,355

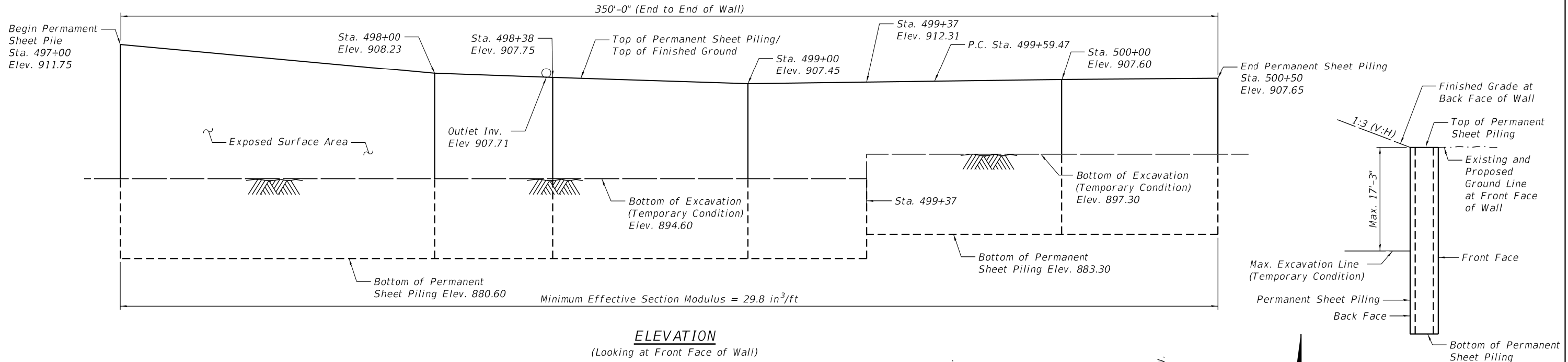
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY SOIL RETENTION SYSTEM
IL 176 SOIL IMPROVEMENT DETAILS

SHEET S-2 OF S-11 SHEETS

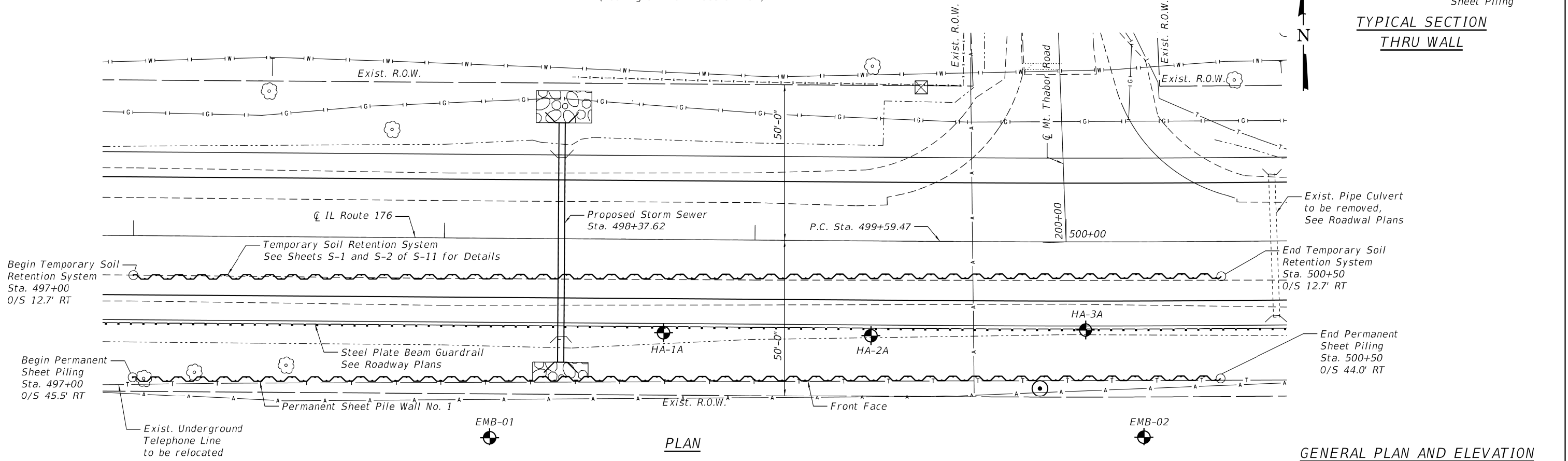
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335	120N-4	McHENRY	126	80
CONTRACT NO. 62C06				
ILLINOIS FED. AID PROJECT				





ELEVATION
(Looking at Front Face of Wall)

TYPICAL SECTION THRU WALL



PLAN

GENERAL NOTES:

1. Wall stations, offsets and dimensions are measured at front face of wall.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Permanent Sheet Piling	Sq Ft	9,423

**GENERAL PLAN AND ELEVATION
PERMANENT SHEET PILE WALL NO. 1**

**IL ROUTE 176
SECTION 102-N
McHENRY COUNTY
STATION 497+00 TO 500+50**

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

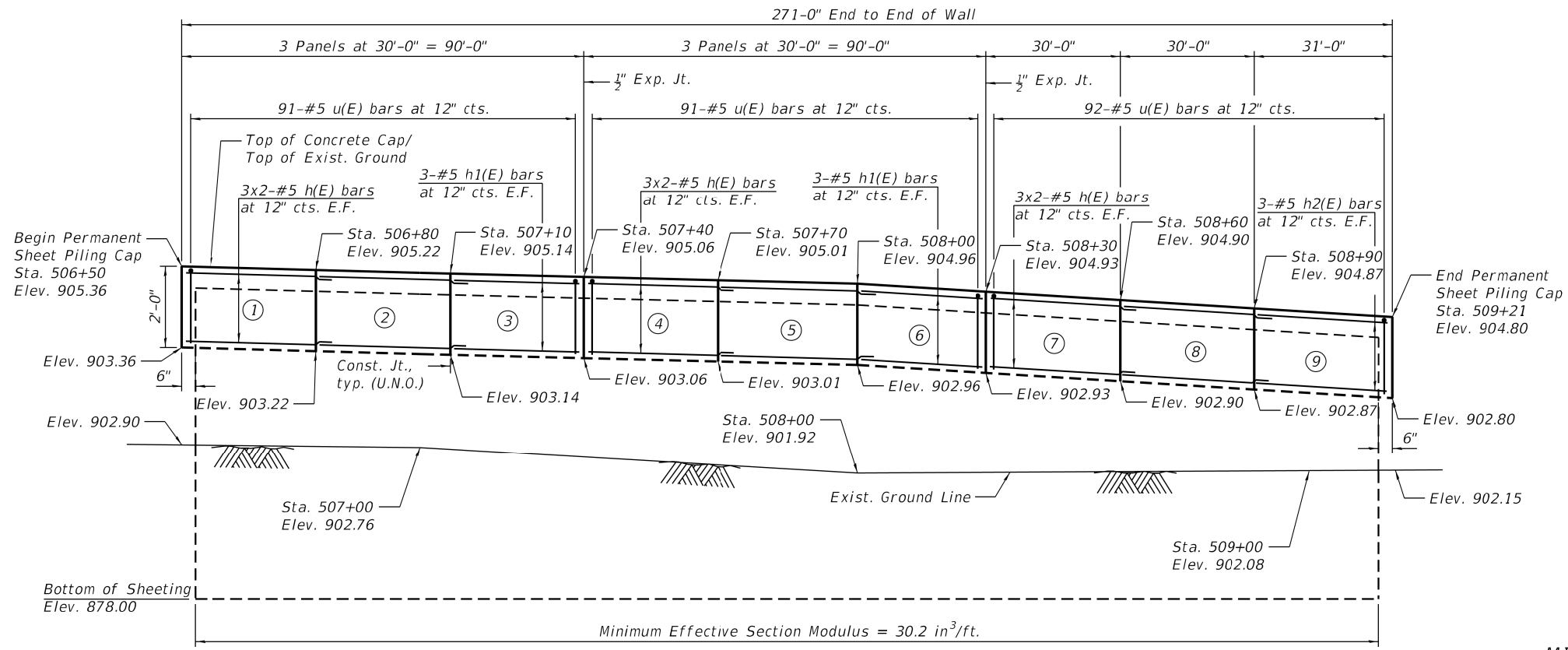
**PERMANENT SHEET PILE WALL NO. 1
IL 176 SOIL IMPROVEMENT DETAILS**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	120N-4	McHENRY	126	81
CONTRACT NO. 62C06				

SHEET S-3 OF S-11 SHEETS

ILLINOIS FED. AID PROJECT

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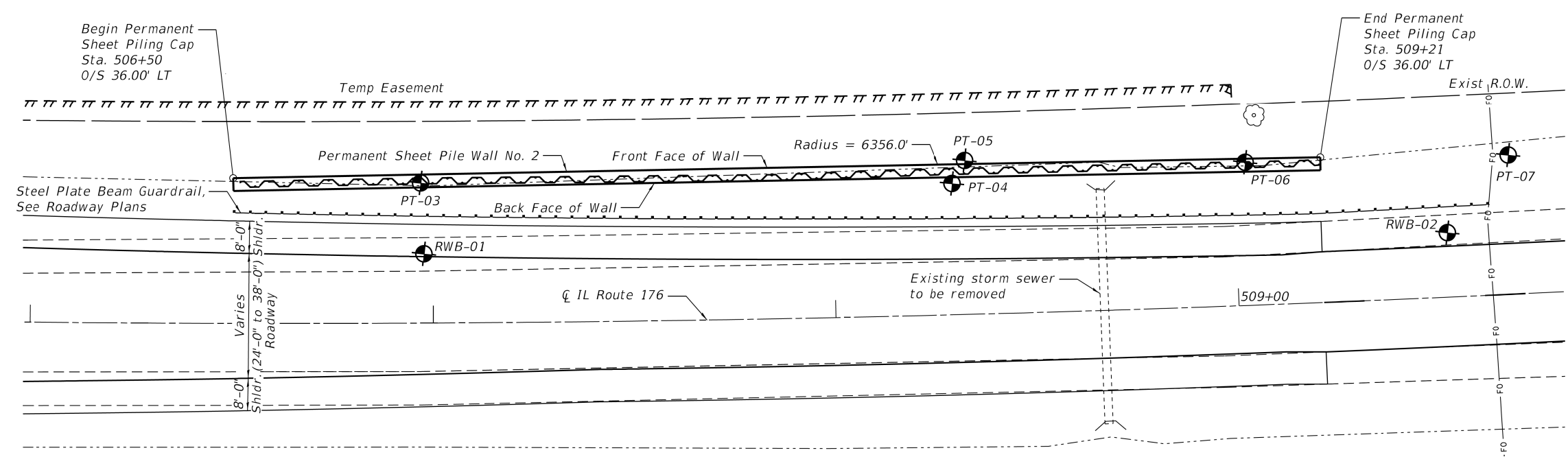


MIN BAR LAP
#5 Bar - 3'-7"

LEGEND

- Soil Borings
- E.F. Each Face
- U.N.O. Unless Noted Otherwise

ELEVATION
(Looking at Back Face of Permanent Sheet Piling)



PLAN

**GENERAL PLAN AND ELEVATION
PERMANENT SHEET PILE WALL NO. 2
ALONG IL ROUTE 176
SECTION 102-N
McHENRY COUNTY
STATION 506+50 TO 509+21**

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PERMANENT SHEET PILE WALL NO. 2
IL 176 SOIL IMPROVEMENT DETAILS**

SHEET S-4 OF S-11 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	120N-4	McHENRY	126	82
CONTRACT NO. 62C06				

ILLINOIS FED. AID PROJECT



BORING LOG EMB-01

Page 1 of 1

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1145 North Main Street
Lombard IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

Client **IDOT, District One**
Project **IL 176 at Haligus Road/ Mt. Thabor Road**
Location **McHenry, Illinois**

Datum: NAVD88
Elevation: 908.20 ft
North: 2032865.64 ft
East: 965041.94 ft
Station: 498+15.0078
Offset: 64 2284 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
906.5	Soft, black SILTY CLAY LOAM; moist --TOPSOIL--	1	X	1	1 1 2	0.33 B	21			12	X	12	5 7 11	3.28 B	15
	Very soft to medium stiff, dark gray CLAY to SILTY CLAY, trace to some organic matter; moist --RDR 1--	2	X	2	1 2 1 3	0.66 B	41	880.2	Medium dense, gray LOAM to CLAY LOAM, trace gravel; moist --RDR 2--	30	X	13	6 5 8	NP	12
		3	X	3	1 1 1 1	0.08 B	41			35	X	14	11 12 17	NP	12
		4	X	4	1 2 3 4	0.41 B	46	876.2	--hard drilling, 32 to 37 feet-- Medium dense, gray SANDY GRAVEL; moist to wet --RDR 3--	40	X	15	9 7 10	NP	22
		5	X	5	1 3 3 5	0.16 B	60			45	X	16	12 14 10	NP	21
897.7	Very stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel; damp --L _L (%)=31, P _L (%)=16-- --%Gravel=1.8-- --%Sand=7.2--15 --%Silt=58.9-- --%Clay=32.1-- --A-6 (12)--	6	X	6	3 5 7	2.30 B	18	871.2	Medium dense, light brown, fine to medium SAND; saturated --RDR 2--	50	X	17	26 19 13	NP	17
		7	X	7	3 5 10	2.71 B	16								
		8	X	8	6 6 9	2.25 P	16	866.5	Medium dense, brown SILT; saturated --RDR 2--						
		9	X	9	4 7 9	3.03 B	16		--interbedded clay lenses--						
		10	X	10	5 8 11	2.54 B	14	861.5	Dense, light brown, fine SAND; wet --RDR 2--						
		11	X	11	6 9 10	2.38 B	16	858.2	--silt and clay lenses--						

GENERAL NOTES

Begin Drilling **11-08-2017** Complete Drilling **11-08-2017**
 Drilling Contractor **Wang Testing Services** Drill Rig **D25 ATV [93%]**
 Driller **N&R** Logger **M. Schmelzel** Checked by **C. Marin**
 Drilling Method **2.25 IDA HSA to 10', mud rotary to termination;**
boring backfilled upon completion

WATER LEVEL DATA

While Drilling **37.00 ft**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG EMB-02

Page 1 of 1

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Lombard IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

Client **IDOT, District One**
Project **IL 176 at Haligus Road/ Mt. Thabor Road**
Location **McHenry, Illinois**

Datum: NAVD88
Elevation: 908.60 ft
North: 2032865.81 ft
East: 965252.52 ft
Station: 500+24.9343
Offset: 62.8610 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
907.1	18-inch thick, soft, black SILTY CLAY LOAM; wet --TOPSOIL--	1	X	1	1 1 2	0.25 P	27			12	X	12	7 9 12	1.25 P	18
	Very soft, black to dark brown CLAY LOAM to SILTY CLAY LOAM, little gravel and trace organic matter; moist --RDR 1--	2	X	2	1 1 1 3	0.08 B	36			30	X	13	6 9 13	1.97 B	17
	--L _L (%)=48, P _L (%)=23-- --%Gravel=13.6-- --%Sand=22.5-- --%Silt=41.9-- --%Clay=22.0-- --A7-6 (14)--	3	X	3	2 2 2	< 0.25 P	34			35	X	14	9 13 18	2.13 B	13
903.1	Very soft to soft, gray SILTY LOAM to SILTY CLAY LOAM, trace to little gravel; wet --RDR 1--	4	X	4	2 2 3	< 0.25 P	20	877.1	--light rig chatter-- Very stiff, pinkish gray SILTY LOAM, trace to some gravel; damp --RDR 3--	40	X	15	23 20 20	2.50 P	12
		5	X	5	4 4 5	0.25 P	15		--L _L (%)=19, P _L (%)=13-- --%Gravel=5.6-- --%Sand=27.6-- --%Silt=56.3-- --%Clay=10.4-- --A-4 (1)-- --coarse sand lenses; wet--	45	X	16	8 10 12	NP	17
898.1	Stiff to hard, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel; moist --RDR 2--	6	X	6	3 4 7	1.00 P	15	867.6	Medium dense, brown, medium SAND; saturated --RDR 3--	50	X	17	12 21 23	NP	20
		7	X	7	6 7 12	NA									
		8	X	8	8 13 17	4.35 B	16	861.9	Dense, brown SILT; saturated						
		9	X	9	8 10 16	2.25 P	18								
		10	X	10	7 9 13	2.71 B	16	858.6	--interbedded clay lenses--						
		11	X	11	5 8 11	2.54 B	18								

GENERAL NOTES

Begin Drilling **11-09-2017** Complete Drilling **11-09-2017**
 Drilling Contractor **Wang Testing Services** Drill Rig **D25 ATV [93%]**
 Driller **N&R** Logger **M. Schmelzel** Checked by **C. Marin**
 Drilling Method **2.25 IDA HSA to 10', mud rotary to termination;**
boring backfilled upon completion

WATER LEVEL DATA

While Drilling **42.00 ft**
 At Completion of Drilling **mud in the borehole**
 Time After Drilling **NA**
 Depth to Water **NA**
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORINGS-I
IL ROUTE 176 SOIL IMPROVEMENT

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	120N-4	McHENRY	126	84
CONTRACT NO. 62C06				

SHEET S-6 OF S-11 SHEETS

ILLINOIS FED. AID PROJECT



USER NAME =	DESIGNED - MN	REVISED -
CHECKED - SAT	REVISED -	
PLOT SCALE =	DRAWN - MN	REVISED -
PLOT DATE =	CHECKED - SPS	REVISED -

MODEL: Default
FILE NAME: O:\Engineering\Live\Projects\13038 IDOT DUR\Work Order #18\CADD\CADD Sheets\Structural\62C06-006-Soil Borings-1.dgn

10/18/2018 10:46:45 AM



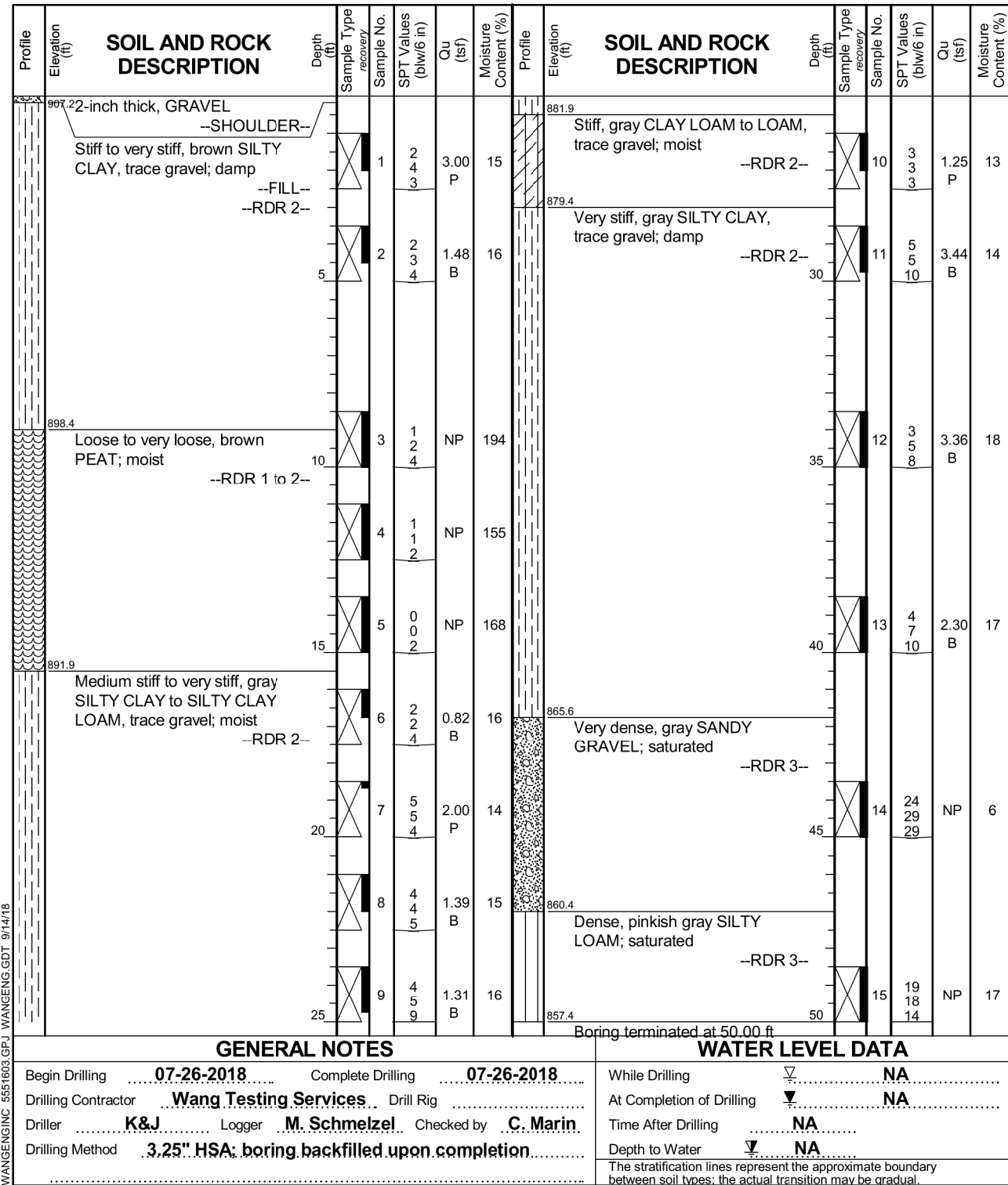
BORING LOG RWB-01

wangeng@wangeng.com
1145 N Main Street
Lombard, Illinois 60148
Telephone: 630-953-9928
Fax: 630-953-9938

WEI Job No.: 555-16-03

Client **Illinois Department of Transportation (IDOT)**
Project **IL 176 at Haligus Road**
Location **McHenry, IL**

Datum: NAVD 88
Elevation: 907.37 ft
North: 2032983.46 ft
East: 965921.91 ft
Station: 506+97.75
Offset: 17.18 LT



GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **07-26-2018** Complete Drilling **07-26-2018**
 Drilling Contractor **Wang Testing Services** Drill Rig
 Driller **K&J** Logger **M. Schmelzel** Checked by **C. Marin**
 Drilling Method **3.25" HSA; boring backfilled upon completion**

While Drilling **NA**
 At Completion of Drilling **NA**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



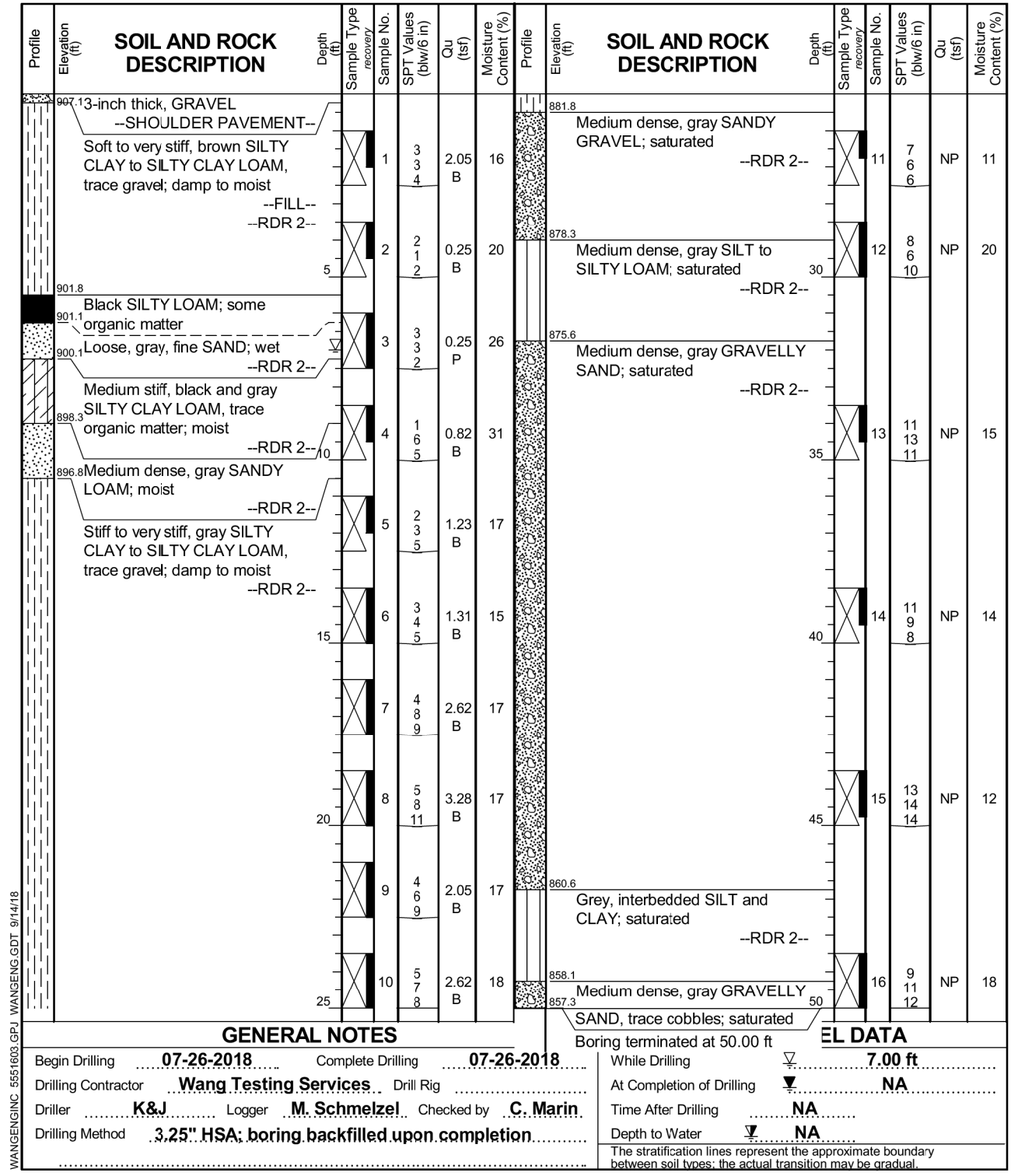
BORING LOG RWB-02

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WEI Job No.: 555-16-03

Client **Illinois Department of Transportation (IDOT)**
Project **IL 176 at Haligus Road**
Location **McHenry, IL**

Datum: NAVD 88
Elevation: 907.31 ft
North: 2033014.96 ft
East: 966174.00 ft
Station: 509+52.48
Offset: 15.98 LT



GENERAL NOTES

EL DATA

Begin Drilling **07-26-2018** Complete Drilling **07-26-2018**
 Drilling Contractor **Wang Testing Services** Drill Rig
 Driller **K&J** Logger **M. Schmelzel** Checked by **C. Marin**
 Drilling Method **3.25" HSA; boring backfilled upon completion**

While Drilling **7.00 ft**
 At Completion of Drilling **NA**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

MODEL: Default
FILE NAME: O:\Engineering\Live\Projects\13038 IDOT DUR\Work Order #18\CADD\CADD Sheets\Structural\62C06-007-Soil Borings-IL.dgn



USER NAME =	DESIGNED - MN	REVISED -
PLOT SCALE =	CHECKED - SAT	REVISED -
PLOT DATE =	DRAWN - MN	REVISED -
	CHECKED - SPS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORINGS-II
IL ROUTE 176 SOIL IMPROVEMENT

SHEET S-7 OF S-11 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	120N-4	McHENRY	126	85
CONTRACT NO. 62C06				
ILLINOIS FED. AID PROJECT				



BORING LOG HA-1A

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 Fax: 630 953-9938

WEI Job No.: 555-16-02
 Client: **IDOT, District One**
 Project: **IL 176 at Haligus Road/ Mt. Thabor Road**
 Location: **McHenry, Illinois**

Datum: NAVD88
 Elevation: 908.09 ft
 North: 2032899.50 ft
 East: 965097.92 ft
 Station: 498+70.7396
 Offset: 29.9690 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	Sample Type	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	Sample Type	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
907.6	6-inch thick, black SILTY LOAM --TOPSOIL-- Soft to stiff, brown to dark brown SILTY CLAY LOAM, trace organic matter	0	1	PUSH		0.38 B	25								
			2	PUSH		1.53 B	35								
904.3	Very soft to soft, black to dark brown ORGANIC SILTY CLAY; wet --silt lenses--	5	3	PUSH		0.38 B	50								
			4	PUSH		0.19 B	66								
900.6	Very soft, dark brown PEAT; wet	10	5	PUSH		0.19 B	138								
			6	PUSH		0.19 B	73								
897.3	Medium stiff, light gray CLAY to SILTY CLAY, trace to some organic matter; wet	15	7	PUSH		0.75 P	40								
894.6	Very stiff, gray SILTY CLAY, trace gravel; moist	15	8	PUSH		3.06 B	17								
892.1	Boring terminated at 16.00 ft														

GENERAL NOTES

Begin Drilling: **11-10-2017** Complete Drilling: **11-10-2017**
 Drilling Contractor: **Wang Testing Services** Drill Rig: **GEOPROBE**
 Driller: **F&E** Logger: **F. Bozga** Checked by: **C. Marin**
 Drilling Method: **.1" IDA Pneumatic Geoprobe LB Sampler**

WATER LEVEL DATA

While Drilling: **0.00 ft**
 At Completion of Drilling: **0.00 ft**
 Time After Drilling: **NA**
 Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG HA-2A

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WEI Job No.: 555-16-02
 Client: **IDOT, District One**
 Project: **IL 176 at Haligus Road/ Mt. Thabor Road**
 Location: **McHenry, Illinois**

Datum: NAVD88
 Elevation: 908.00 ft
 North: 2032898.55 ft
 East: 965164.54 ft
 Station: 499+37.3677
 Offset: 30.4160 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	Sample Type	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	Sample Type	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
907.4	7-inch thick, black SILTY CLAY LOAM --TOPSOIL-- Soft to stiff, dark brown CLAY to SILTY CLAY LOAM, trace organic matter; wet	0	1	PUSH		0.38 B	29								
			2	PUSH		1.15 B	43								
903.5	Very soft to soft, black to dark brown ORGANIC SILTY CLAY; wet	5	3	PUSH		0.38 B	71								
901.5	Dark brown and gray ORGANIC SILTY LOAM to PEAT; wet	10	4	PUSH		< 0.25 P	126								
900.2	Very soft, dark brown ORGANIC SILTY CLAY to SILTY LOAM, some organic matter; wet	10	5	PUSH		< 0.25 P	46								
897.3	Stiff to very stiff, gray SILTY CLAY LOAM, trace gravel; moist	15	6	PUSH		0.19 B	53								
			7	PUSH		2.10 B	16								
892.0	Boring terminated at 16.00 ft		8	PUSH		1.91 B	15								

GENERAL NOTES

Begin Drilling: **11-10-2017** Complete Drilling: **11-10-2017**
 Drilling Contractor: **Wang Testing Services** Drill Rig: **GEOPROBE**
 Driller: **F&E** Logger: **F. Bozga** Checked by: **C. Marin**
 Drilling Method: **.1" IDA Pneumatic Geoprobe LB Sampler**

WATER LEVEL DATA

While Drilling: **0.00 ft**
 At Completion of Drilling: **0.00 ft**
 Time After Drilling: **NA**
 Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

MODEL: Default
 FILE NAME: O:\Engineering\Live\Projects\13038 IDOT DUR\Work Order #18\CADD\CADD Sheets\Structural\62C06-008-Soil Borings-III.dgn
 WANGENG\INC 5551602.GPJ WANGENG.GDT 2/14/18



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PLOT DATE =	DRAWN - MN	REVISED -
	CHECKED - SPS	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SOIL BORINGS-III
 IL ROUTE 176 SOIL IMPROVEMENT

SHEET S-8 OF S-11 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	120N-4	McHENRY	126	86
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62C06	



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 Lombard IL 60148
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 Fax: 630 953-9938

BORING LOG HA-3A

WEI Job No.: 555-16-02

Client: **DOT, District One**
 Project: **IL 176 at Haligus Road/ Mt. Thabor Road**
 Location: **McHenry, Illinois**

Datum: NAVD88
 Elevation: 908.21 ft
 North: 2032900.38 ft
 East: 965233.72 ft
 Station: 500+06.3191
 Offset: 28.2677 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	907.94	94-inch thick, black SILT LOAM --TOPSOIL--			1	P C S H	0.57 B	29									
	906.5	Medium stiff, brown SILTY CLAY															
	906.0	LOAM, trace gravel and organic matter			2	P C S H	NP	39									
		Brown, fine SAND; wet															
	904.5	Black ORGANIC SILT; saturated															
		Stiff to hard, brown to gray SILTY CLAY, trace gravel; moist	5		3	P C S H	2.48 B	16									
		--gray--			4	P C S H	1.91 B	16									
					5	P C S H	2.48 B	17									
			10		6	P C S H	5.33 B	15									
					7	P C S H	5.33 B	14									
	894.2	Boring terminated at 14.00 ft	15														

WANGENG INC 5551602.GPJ WANGENG.GDT 2/14/18

GENERAL NOTES

Begin Drilling **11-10-2017** Complete Drilling **11-10-2017**
 Drilling Contractor **Wang Testing Services** Drill Rig **GEOPROBE**
 Driller **F&E** Logger **F. Bozza** Checked by **C. Marin**
 Drilling Method **1" IDA Pneumatic Geoprobe LB Sampler**

WATER LEVEL DATA

While Drilling ∇ **1.75 ft**
 At Completion of Drilling ∇ **0.00 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

MODEL: Default
 FILE NAME: O:\Engineering\Live\Projects\13038 IDOT DUR\Work Order #18\CADD\CADD Sheets\Structural\62C06-009-Soil Borings-IV.dgn



USER NAME =	DESIGNED - MN	REVISED -
	CHECKED - SAT	REVISED -
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PLOT DATE =	CHECKED - SPS	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SOIL BORINGS-IV
 IL ROUTE 176 SOIL IMPROVEMENT

SHEET S-9 OF S-11 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	120N-4	McHENRY	126	87
CONTRACT NO. 62C06				
ILLINOIS FED. AID PROJECT				



BORING LOG PT-03

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WEI Job No.: 555-16-02
Client: **DOT, District One**
Project: **IL 176 at Haligus Road/ Mt. Thabor Road**
Location: **McHenry, Illinois**

Datum: NAVD88
Elevation: 902.15 ft
North: 2033000.84 ft
East: 965919.28 ft
Station: 506+97.0302
Offset: 34.7681 LT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
901.4	9-inch thick, black SILTY LOAM --TOPSOIL--	0		1	2	2.87	18								
	Very stiff, brown SILTY CLAY LOAM, trace gravel; damp	1		2	3										
	--RDR 2--	2		3	4										
	--FILL--	3		4	5	2.21	20								
898.4	Very loose to loose, black to dark brown PEAT; wet	4		5	2		240								
	--RDR 1--	5		2	3										
		6		3	4										
		7		4	1		298								
		8		1	1										
		9		1	1										
		10		0	0		312								
		11		0	1										
		12		1	1		239								
		13		0	1										
		14		0	1										
889.4	Very loose, olive gray ORGANIC SILTY LOAM; wet	15		7	0		253								
	--RDR 1--	16		1	1										
		17		1	1										
887.0	Loose, gray, medium to coarse SAND; wet	18		8	1		44								
	--RDR 2--	19		1	1										
	--soft, gray clay, moist--	20		2	2		12								
884.7	Medium dense, gray GRAVELLY SANDY LOAM; wet	21		3	2										
	--interbedded clay seams--	22		4	2										
		23		5	8		15								
882.4	Loose, gray, medium to coarse SAND; saturated	24		6	9										
	--interbedded silt and clay seams--	25		1	2		16								
		26		2	2										
880.2	Boring terminated at 22.00 ft	27		6											

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **11-10-2017** Complete Drilling **11-10-2017**
 Drilling Contractor **Wang Testing Services** Drill Rig **D25 ATV [93%]**
 Driller **N&R** Logger **M. Schmelzel** Checked by **C. Marin**
 Drilling Method **2.25 IDA HSA; boring backfilled upon completion**

While Drilling ∇ **20.00 ft**
 At Completion of Drilling ∇ **21.50 ft**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



BORING LOG PT-05

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WEI Job No.: 555-16-02
Client: **DOT, District One**
Project: **IL 176 at Haligus Road/ Mt. Thabor Road**
Location: **McHenry, Illinois**

Datum: NAVD88
Elevation: 901.94 ft
North: 2033020.35 ft
East: 966053.03 ft
Station: 508+32.9378
Offset: 38.1831 LT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
901.7	3-inch thick, black SILTY CLAY LOAM	0		1	2	2.50	21								
	--TOPSOIL--	1		3	4										
899.7	Very stiff to hard (4.0P), brown, black, and gray SILTY CLAY LOAM, trace gravel; damp	2		2	2		61								
	--RDR 2--	3		2	3										
	--FILL--	4		1	1		157								
897.4	Loose, black ORGANIC SILTY LOAM, trace plant roots; moist	5		1	1										
	--RDR 1--	6		0	1		136								
	Very loose to loose, dark brown PEAT; wet	7		0	0										
	--RDR 1--	8		0	0		360								
		9		0	0										
		10		0	0										
		11		0	0		237								
		12		0	1										
		13		0	1		198								
		14		3	2	0.41	13								
887.2	Soft, gray SILTY CLAY LOAM, trace gravel; moist	15		8	3										
885.9	Boring terminated at 16.00 ft	16		3	4										

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling **11-10-2017** Complete Drilling **11-10-2017**
 Drilling Contractor **Wang Testing Services** Drill Rig **D25 ATV [93%]**
 Driller **N&R** Logger **M. Schmelzel** Checked by **C. Marin**
 Drilling Method **2.25 IDA HSA; boring backfilled upon completion**

While Drilling ∇ **DRY**
 At Completion of Drilling ∇ **DRY**
 Time After Drilling **NA**
 Depth to Water ∇ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

MODEL: Default
FILE NAME: O:\Engineering\Live\Projects\13038 IDOT DUR\Work Order #18\CADD\CADD Sheets\Structural\62C06-010-Soil Borings-V.dgn



USER NAME =	DESIGNED - MN	REVISED -
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PLOT SCALE =	DRAWN - MN	REVISED -
PLOT DATE =	CHECKED - SPS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORINGS-V
IL ROUTE 176 SOIL IMPROVEMENT

SHEET S-10 OF S-11 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	120N-4	McHENRY	126	88
CONTRACT NO. 62C06			ILLINOIS FED. AID PROJECT	



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BORING LOG PT-06

WEI Job No.: 555-16-02

Client: **IDOT, District One**
 Project: **IL 176 at Haligus Road/ Mt. Thabor Road**
 Location: **McHenry, Illinois**

Datum: NAVD88
 Elevation: 901.43 ft
 North: 2033027.10 ft
 East: 966122.24 ft
 Station: 509+02.8200
 Offset: 35.4762 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
	900.4	--below 6 inches standing water-- 12-inch thick, loose, black SILTY LOAM, trace gravel; moist --TOPSOIL-- Very soft, black ORGANIC SILTY LOAM; saturated --RDR 1--	0	1	1	NP	92								
				2	0	NA									
	896.1		5	3	0	0.25 P	69								
		Very loose, dark brown ORGANIC SILTY LOAM to PEAT; wet --RDR 1--		4	1	NP	99								
	891.9			5	0	NP	101								
	890.7	Dark brown ORGANIC SILT, trace plant roots; wet	10												
	889.7	Medium dense, gray SILT; wet --RDR 2--		6	5	NP	69								
		Stiff, gray SILTY CLAY, trace gravel; moist --RDR 2--		7	1	1.07 B	17								
	887.4	Boring terminated at 14.00 ft	15												
			20												
			25												

WANGENG INC. 5551602.GPJ WANGENG.GDT 2/14/18

GENERAL NOTES

Begin Drilling **11-10-2017** Complete Drilling **11-10-2017**
 Drilling Contractor **Wang Testing Services** Drill Rig **D25 ATV [93%]**
 Driller **N&R** Logger **M. Schmelzel** Checked by **C. Marin**
 Drilling Method **2.25 IDA HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling **0.00 ft**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

MODEL: Default
 FILE NAME: O:\Engineering\Live\Projects\13038 IDOT DUR\Work Order #18\CADD\CADD Sheets\Structural\62C06-011-Soil Borings-VI.dgn



USER NAME =	DESIGNED - MN	REVISED -
	CHECKED - SAT	REVISED -
PLOT SCALE =	DRAWN - MN	REVISED -
PLOT DATE =	CHECKED - SPS	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SOIL BORINGS-VI
 IL ROUTE 176 SOIL IMPROVEMENT**

SHEET S-11 OF S-11 SHEETS

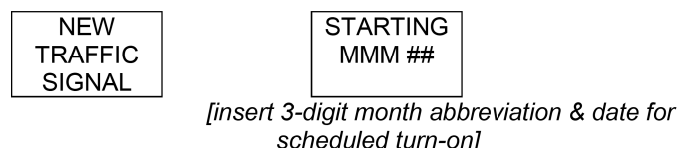
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	120N-4	McHENRY	126	89
CONTRACT NO. 62C06				
ILLINOIS FED. AID PROJECT				

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. The plans must specify the CMS locations, durations, and messages as specified below:

2 weeks prior to scheduled signal turn-on:

Place a Changeable Message Sign (CMS) on each mainline approach to the intersection which reads:



On the day of the turn-on, change messages to read:



Yellow W3-3 Signal Ahead warning signs shall be placed on each approach to the intersection, each with an 18" x 18" orange flag mounted on the traffic side of the signs. These sign assemblies shall also be installed on raised barrier medians of multilane highways (2nd left side installation across from the sign on the right side) where applicable. Yellow W16-P 'New' signs shall be installed above the W3-3 Signal Ahead signs.

The temporary warning devices and sign accessories shall be removed in the following order:

- Changeable message signs – 2 weeks after signal turn-on
- Orange flags/ 'New' signs – At least 4 weeks after signal turn-on
- If the W3-3 Signal Ahead warning signs are not warranted by the MUTCD (this determination shall be made solely by the Area Traffic Field Engineer/Technician), then they shall be removed as well after a period of 2 months following the signal turn-on. This determination shall be made separately for each approach to the intersection, as conditions may vary by direction requiring the signs to remain permanently in one direction and not in the other direction. Where signs are still warranted to remain, then after 2 months they may be replaced with standard size signs (remove the oversize signs and replace with the normal standard size).

Changeable message signs, W3-3 Signal Ahead signs, and flags should all be provided in the contract. Sequential removal of these items will be performed by the sign shop. Installation of the signs (possibly replacing intersection warning signs with the W3-3 signs) shall be coordinated to be completed on the day of the traffic signal turn-on scheduled with the Area Traffic Signal Engineer.

Updated 10/25/16

MODEL: Default
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	USER NAME = Bilgramisa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 176 AT HALIGUS ROAD AND MT. THABOR ROAD MOTORIST NOTIFICATION FOR TURNING ON NEW TRAFFIC SIGNALS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED -			335	120N-4	MCHENRY	126	90	
	PLOT DATE = 3/22/2019	DATE -	REVISED -			CONTRACT NO. 62C06					
						SCALE:	SHEET 3	OF 3	SHEETS	STA.	TO STA.

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	S	SP	FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F	 	
WOOD POLE			INTERSECTION ITEM	I	IP	GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE	 	
GUY WIRE			REMOVE ITEM	R	R			
SIGNAL HEAD			RELOCATE ITEM	RL	RL			
SIGNAL HEAD WITH BACKPLATE			ABANDON ITEM	A	A			
SIGNAL HEAD OPTICALLY PROGRAMMED			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED	RCF	RCF			
FLASHER INSTALLATION -(FS) SOLAR POWERED	 	 	MAST ARM POLE AND FOUNDATION TO BE REMOVED	RMF	RMF			
PEDESTRIAN SIGNAL HEAD			SIGNAL POST AND FOUNDATION TO BE REMOVED	RPF	RPF			
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								

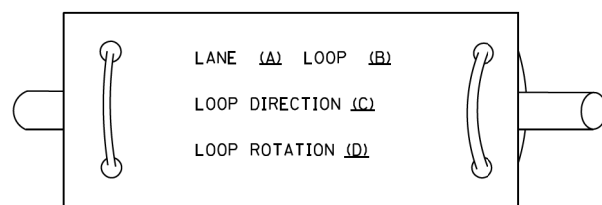
TS SHT. NO. 1

FILE NAME =	USER NAME = brandon	DESIGNED - IP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS	F.A.P. RTE. 335	SECTION 120N-4	COUNTY MC HENRY	TOTAL SHEETS 126	SHEET NO. 91
Default	J:\Microst\352115 FOUTE 176\Dgn\Eng\Drawings\Final Drafting\DI62C06-SHT-TS01.dgn	DRAWN - IP	REVISED -	SCALE: NONE	SHEET 1 OF 11 SHEETS	STA. TO STA.	CONTRACT NO. 62C06		ILLINOIS FED. AID PROJECT	
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	PLOT DATE = 11/7/2018	DATE - 6/8/2016	REVISED -							

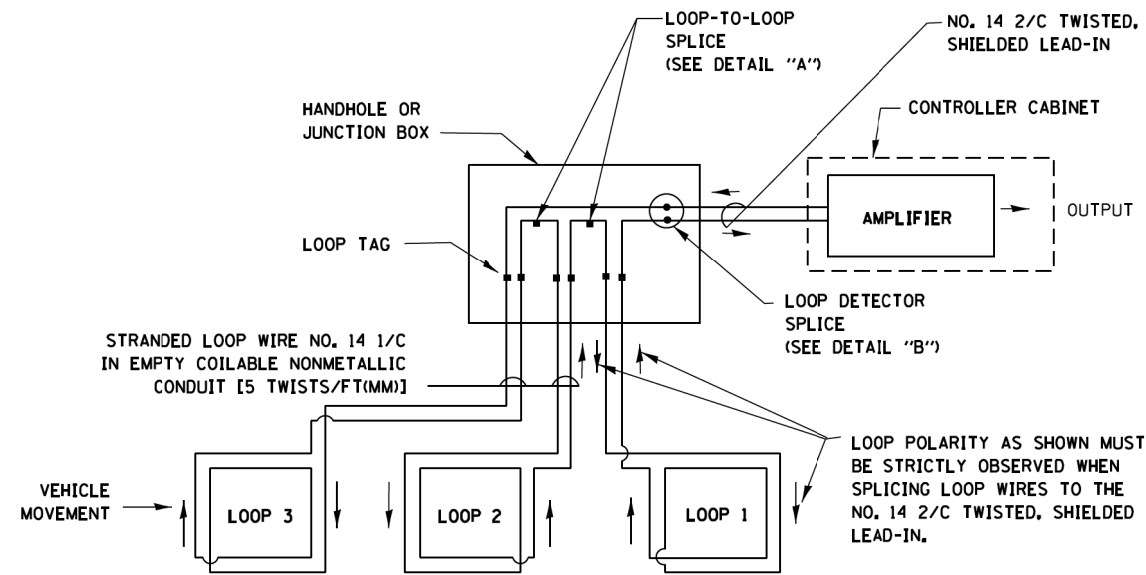
LOOP DETECTOR NOTES

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 DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

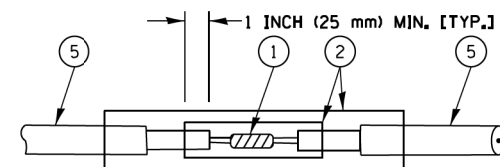


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP *1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

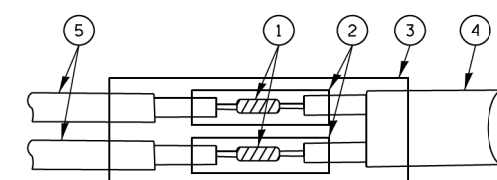


DETECTOR LOOP WIRING SCHEMATIC

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

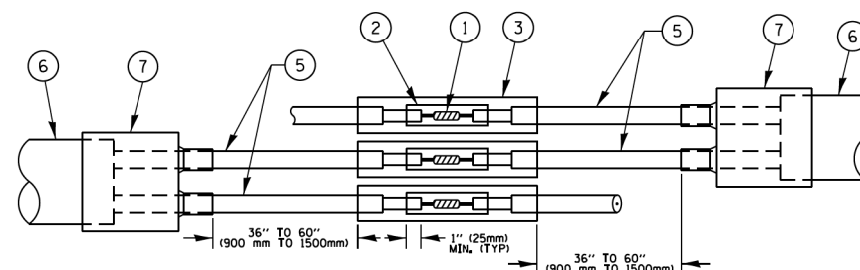


DETAIL "A"
LOOP-TO-LOOP SPLICE

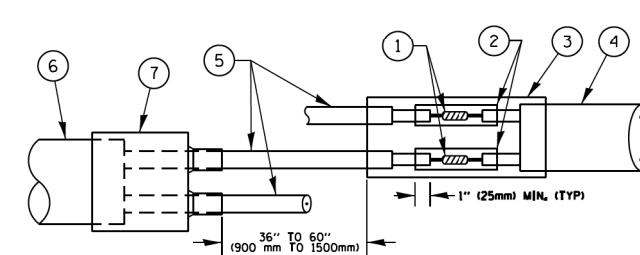


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

PREFORMED LOOP

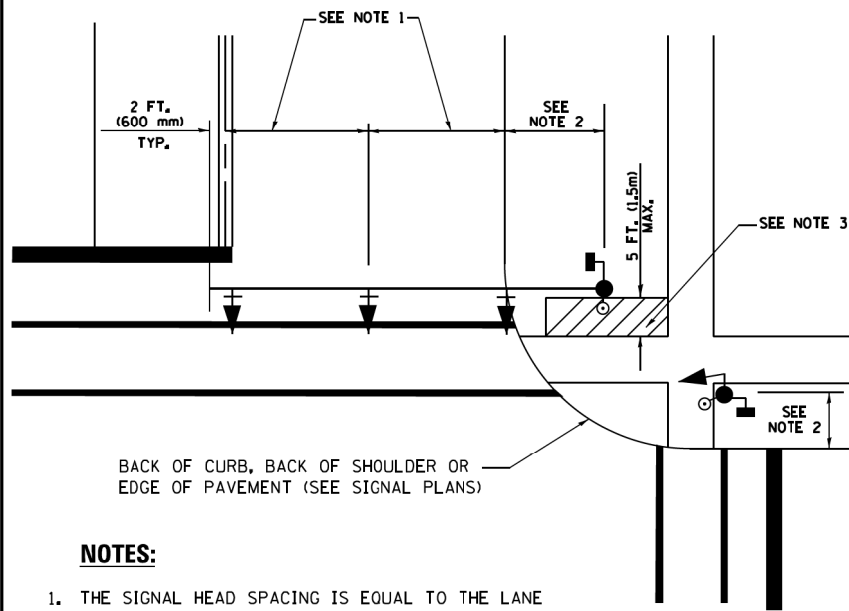
LOOP DETECTOR SPLICE

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

TS SHT. NO. 2

FILE NAME = J:\Microst\352115 FOUTE 176\Dgn\Eng\Drawings\Final Drafting\DI62C06-SHT-TS02.dgn	USER NAME = brandon	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS			F.A.P. RTE. = 335	SECTION = 120N-4	COUNTY = MC HENRY	TOTAL SHEETS = 126	SHEET NO. = 92
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	PLOT DATE = 11/7/2018	DATE -	REVISED -		CONTRACT NO. 62C06							

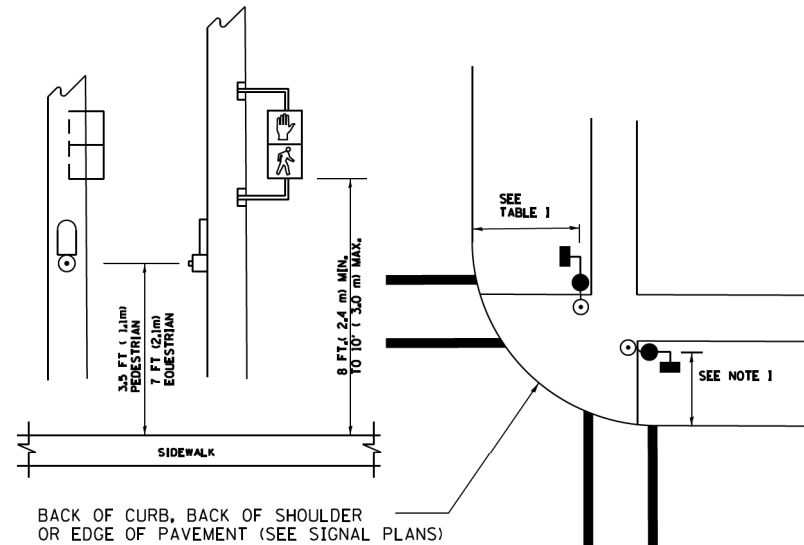
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



NOTES:

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

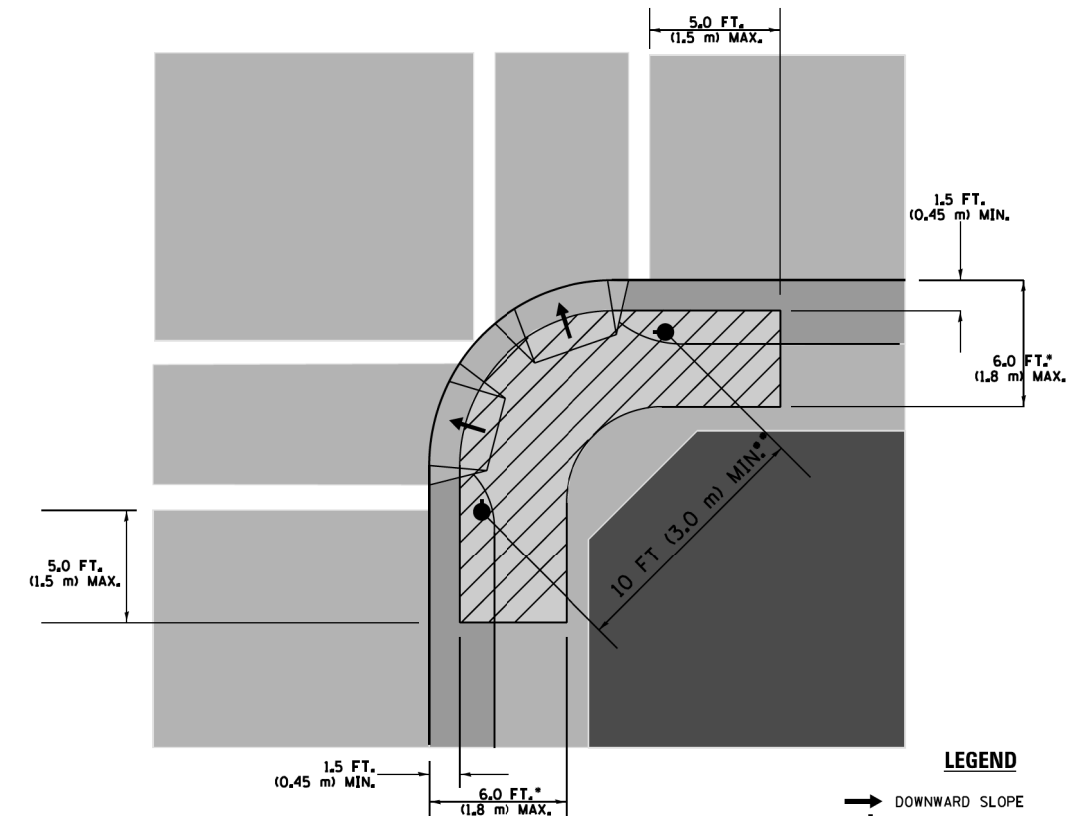
**PEDESTRIAN SIGNAL POST
AND
PEDESTRIAN PUSH BUTTON POST**



NOTES:

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

RECOMMENDED PUSHBUTTON LOCATIONS



LEGEND

- DOWNWARD SLOPE
- PEDESTRIAN PUSHBUTTON
- ▨ RECOMMENDED PUSHBUTTON LOCATIONS

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

NOTES:

1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

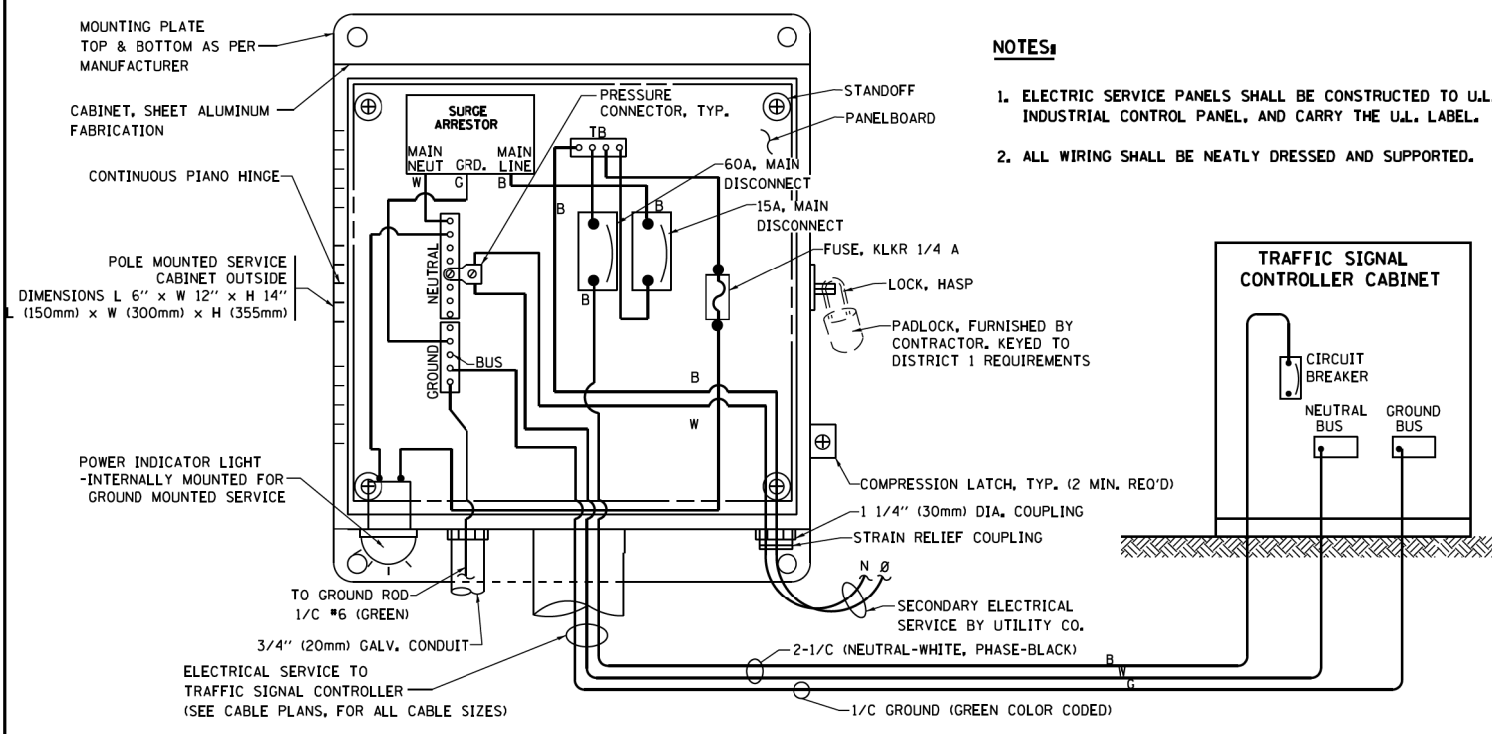
TRAFFIC SIGNAL EQUIPMENT OFFSET

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

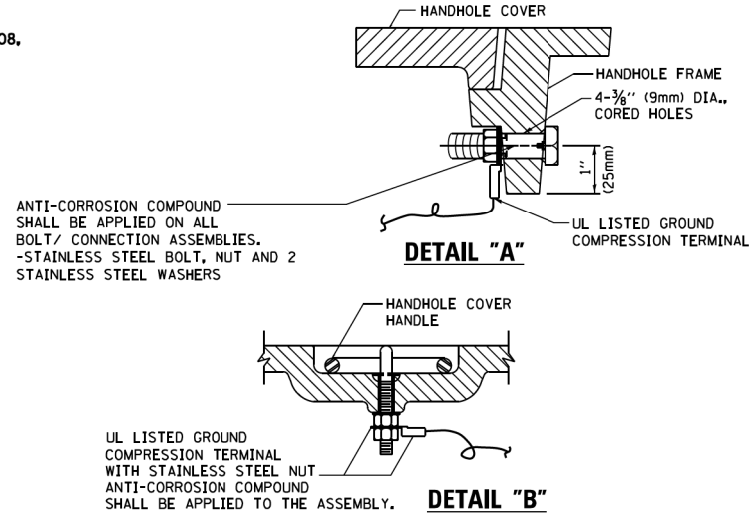
NOTES:

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

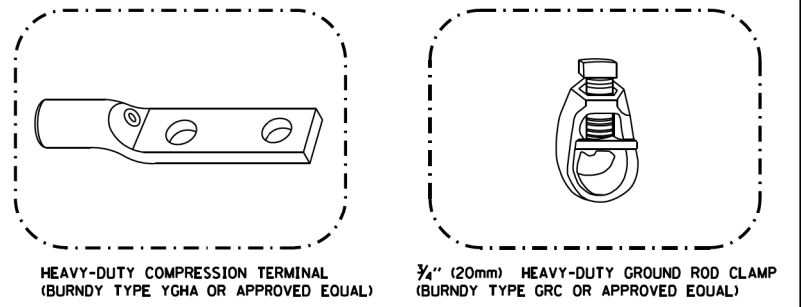
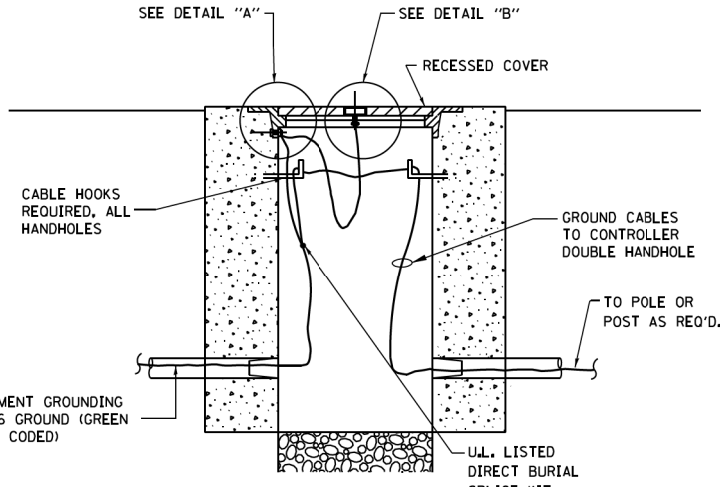
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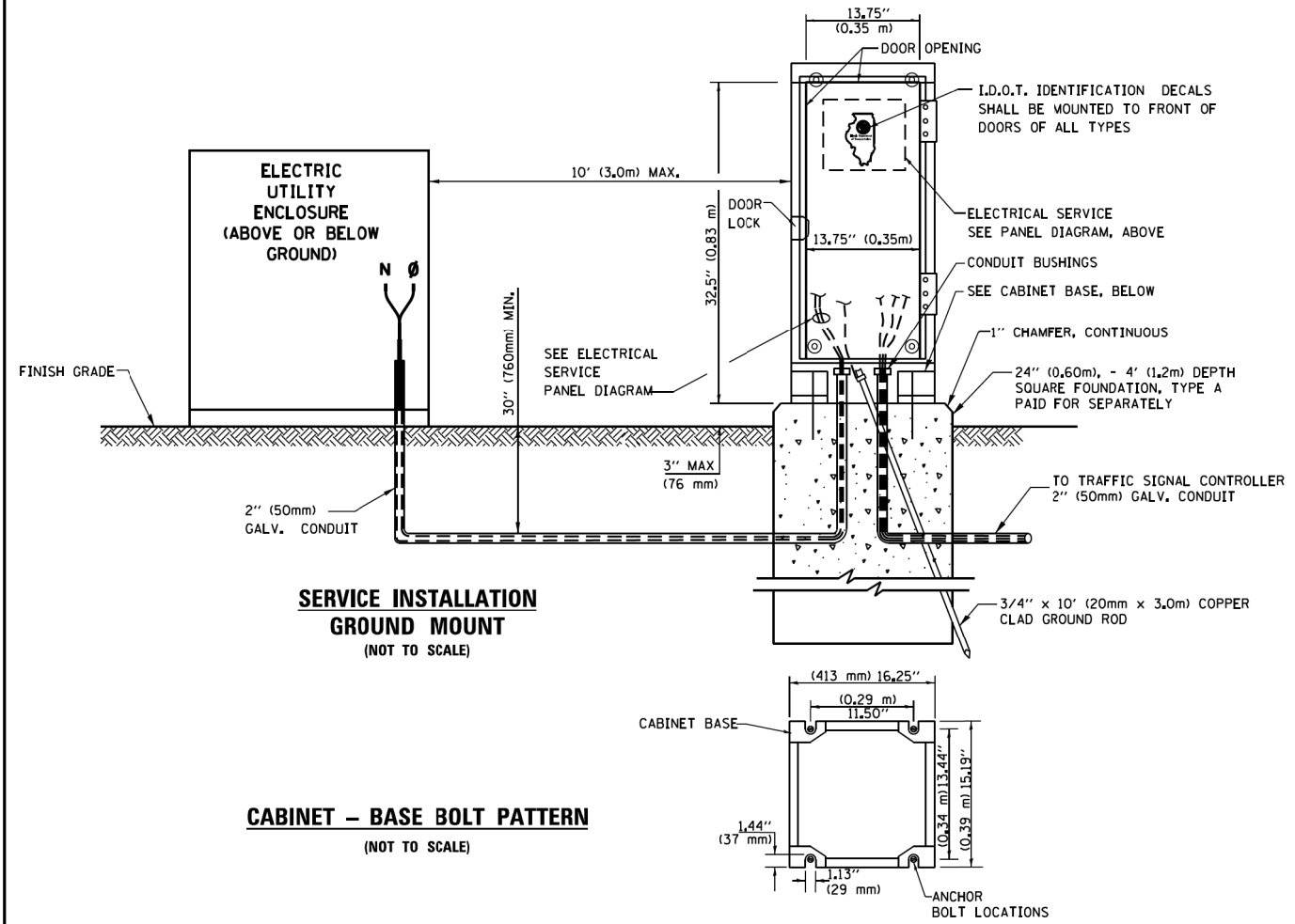
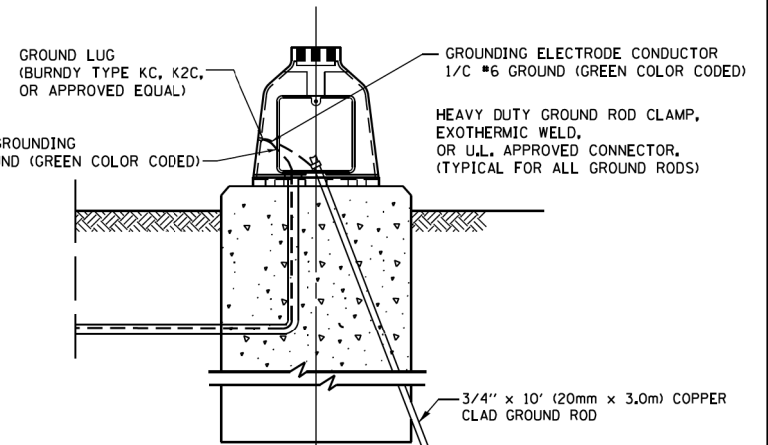
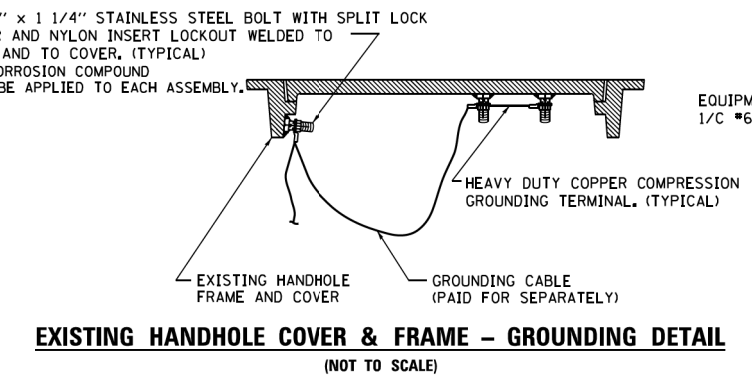
ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
 (NOT TO SCALE)



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

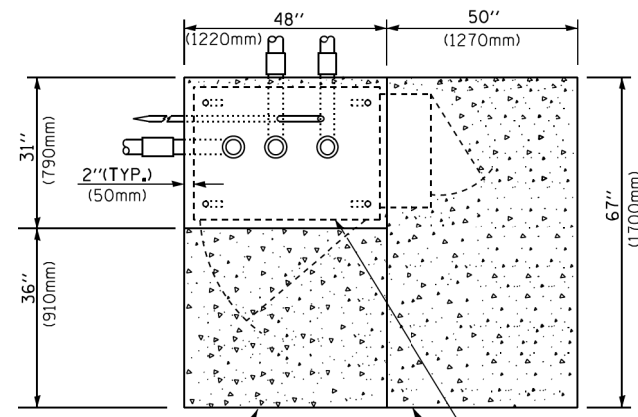


- NOTES:**
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
 - GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.

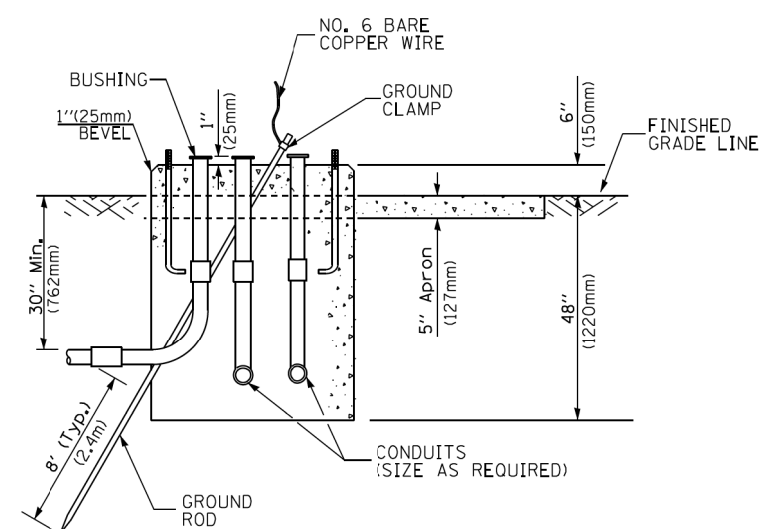


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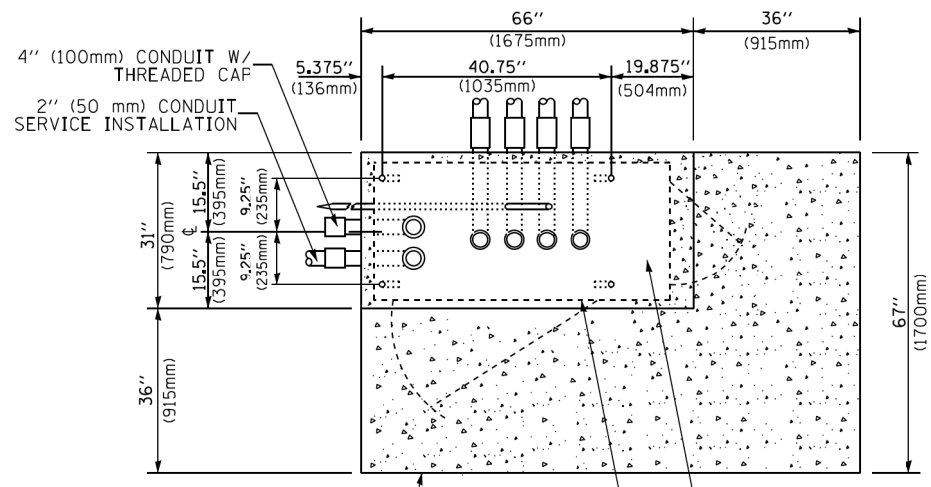
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Default	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -			SCALE: NONE	SHEET 4 OF 11 SHEETS	STA. TO STA.	CONTRACT NO. 62C06			
	PLOT DATE = 11/7/2018	DATE -	REVISED -			ILLINOIS FED. AID PROJECT						



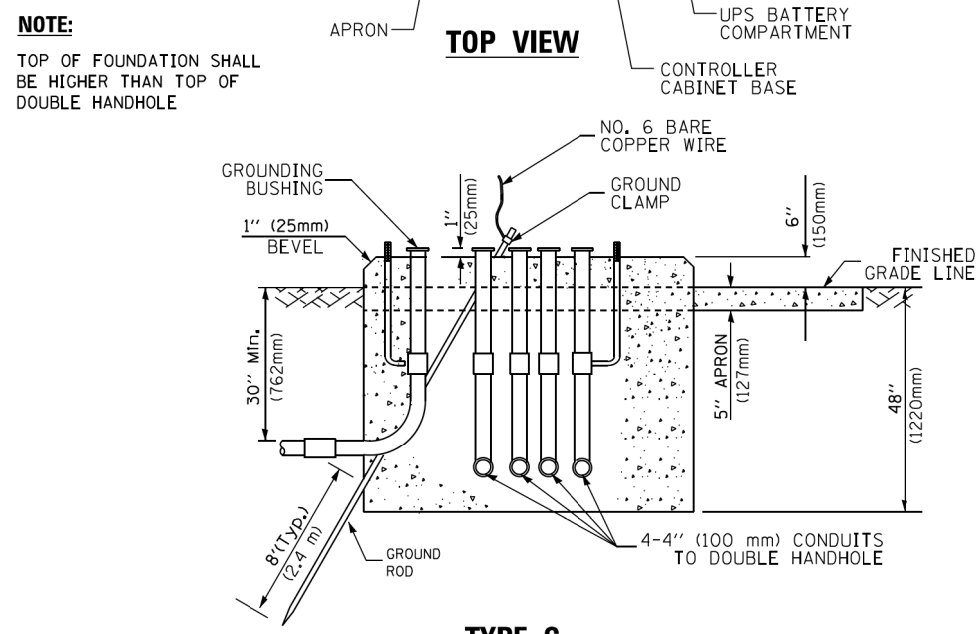
TOP VIEW



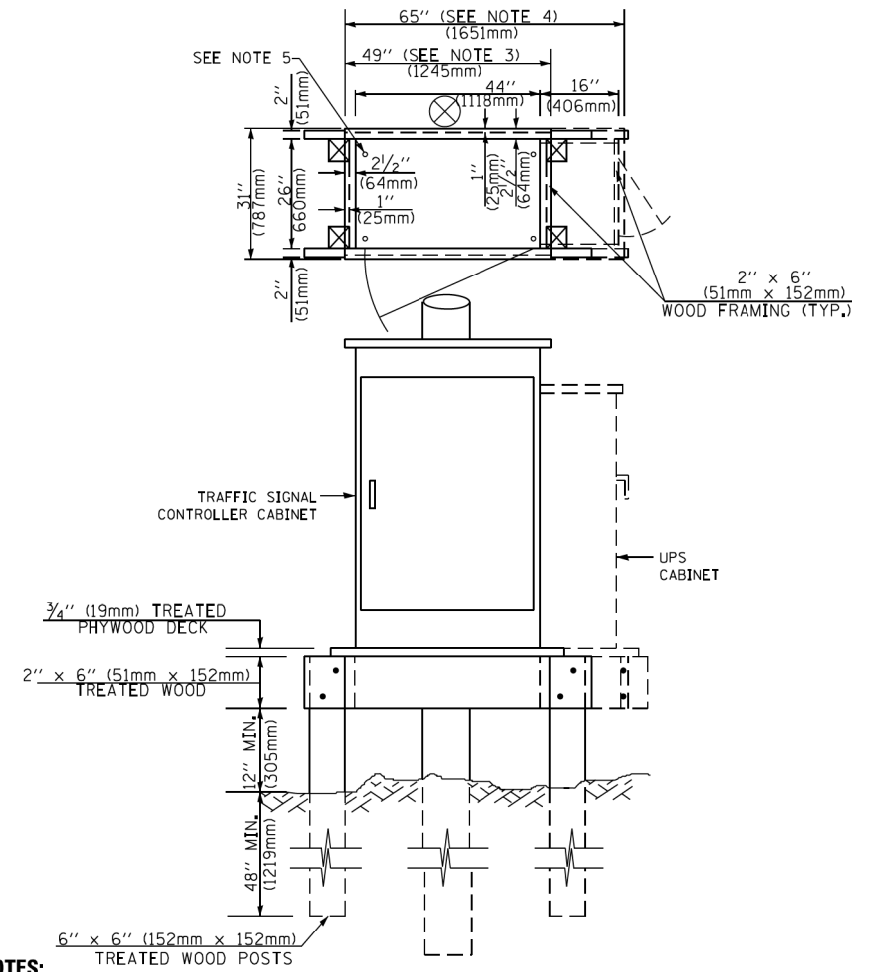
**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**



TOP VIEW



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



NOTES:

1. 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.
2. 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.
3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
5. 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.
6. 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

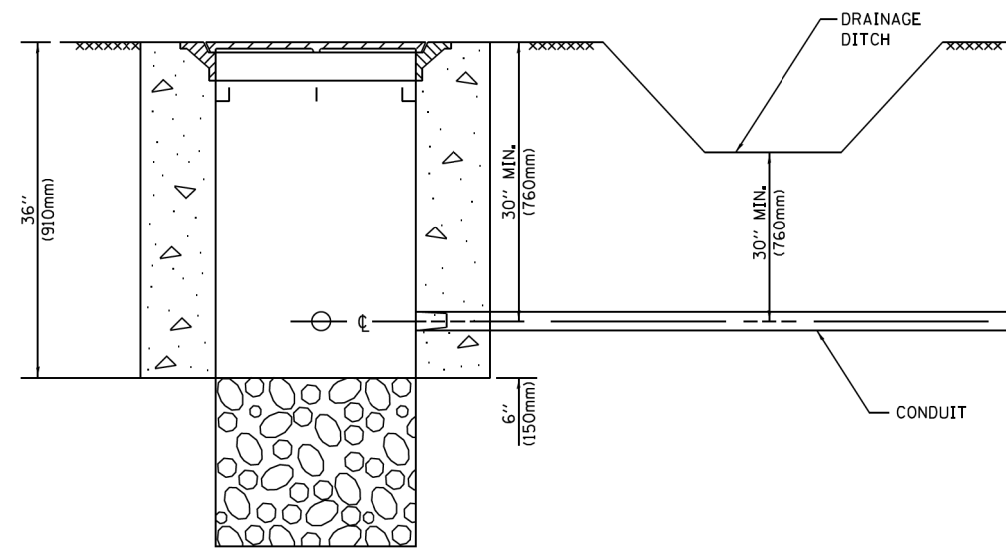
Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or 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 up to 56' (16.8 m) and less than 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

1. 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.
2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
4. For mast arm assemblies with dual arms refer to state standard 878001..

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

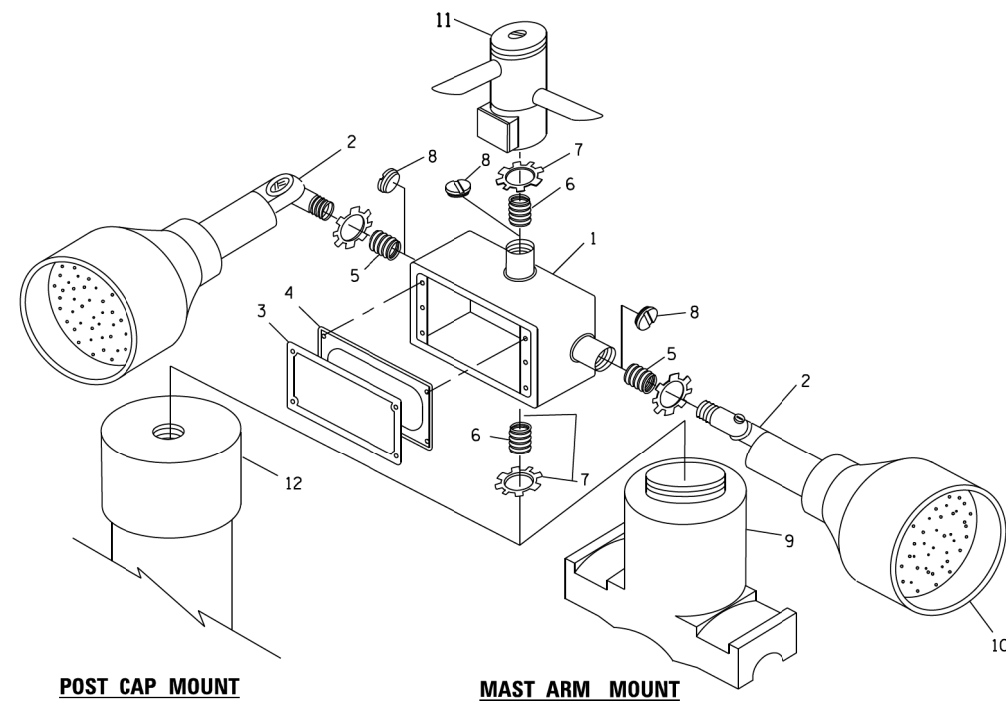
TS SHT. NO. 5



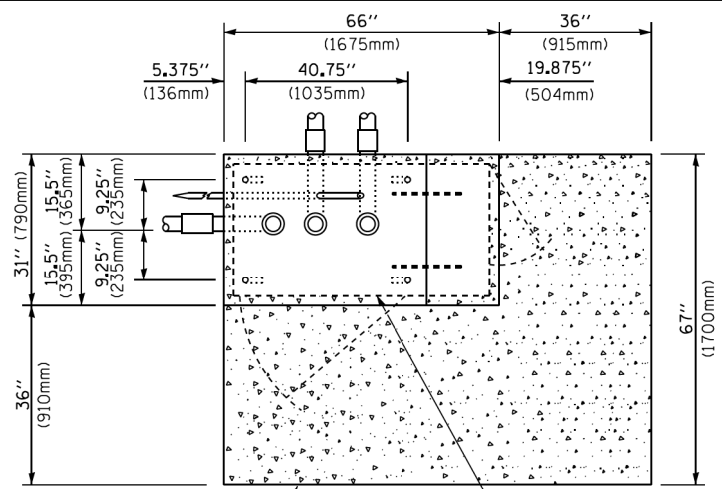
NOTES:

1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

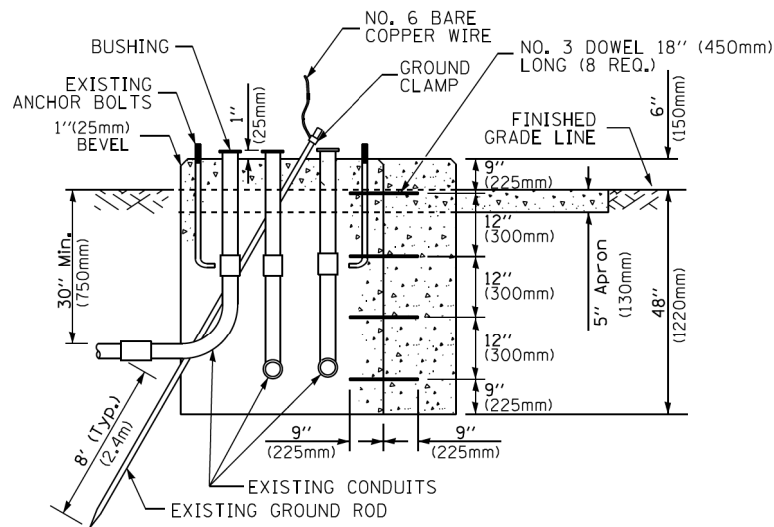
HANDHOLE WITH MINIMUM CONDUIT DEPTH
(NOT TO SCALE)



EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL



TOP VIEW
(NOT TO SCALE)

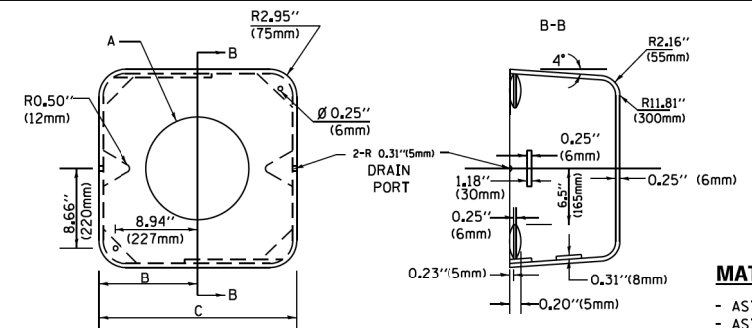


MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION
(NOT TO SCALE)

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

NOTES:

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



MATERIAL:
- ASTM A36 STEEL
- ASTM A-123 HOT DIPPED GALVANIZED

A	B	C	HEIGHT	WEIGHT
VARIABLES	9.5" (241mm)	19" (483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIABLES	10.75" (273mm)	21.5" (546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIABLES	13.0" (330mm)	26" (660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIABLES	18.5" (470mm)	37" (940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

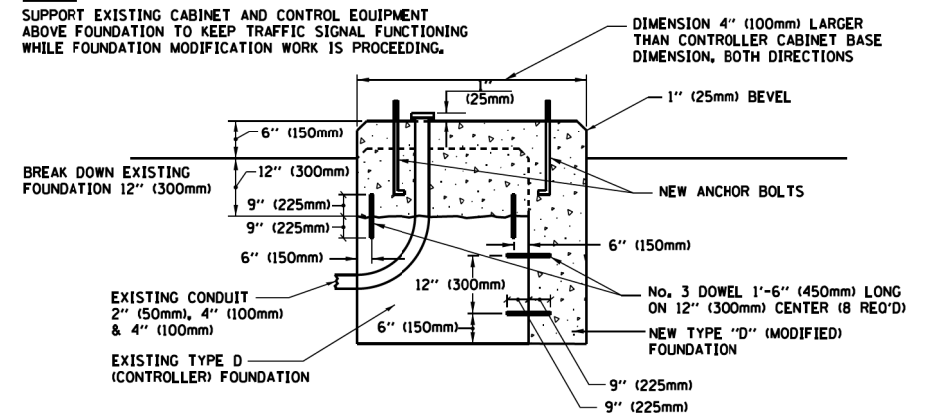
SHROUD

NOTES:

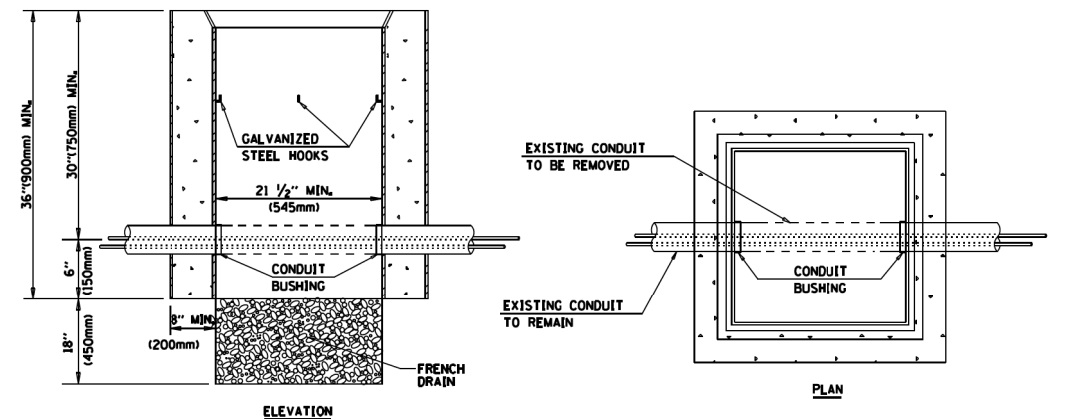
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

NOTE:

SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



MODIFY EXISTING TYPE "D" FOUNDATION



NOTES:

1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

TS SHT. NO. 6

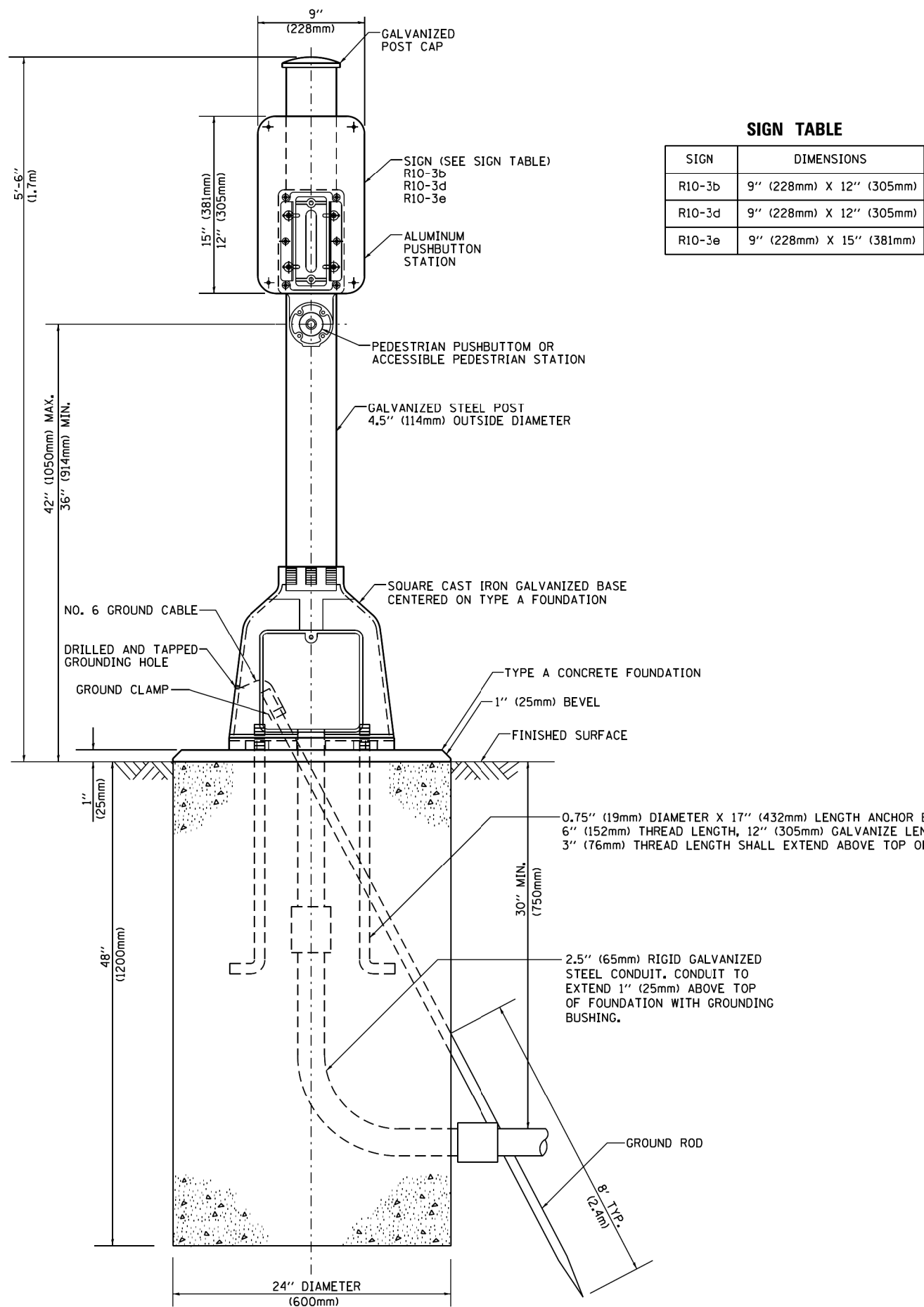
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PLOT DATE = 11/7/2018	DATE -	REVISED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

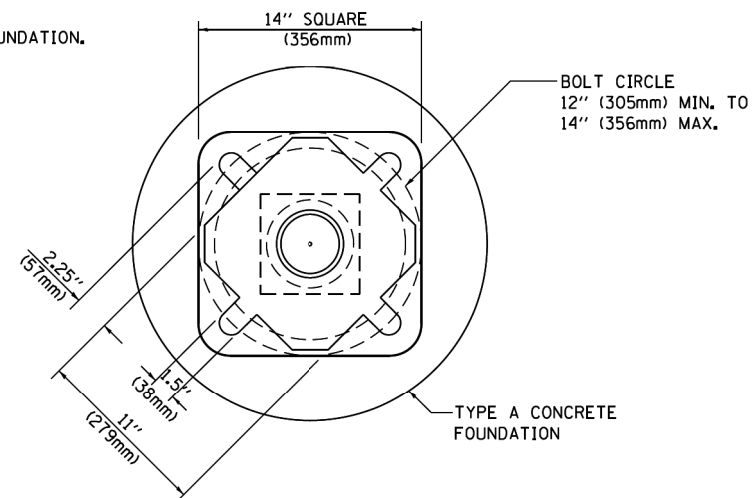
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F.A.P. RTE. 335	SECTION 120N-4	COUNTY MC HENRY	TOTAL SHEETS 126	SHEET NO. 96
CONTRACT NO. 62C06				
ILLINOIS FED. AID PROJECT				



SIGN TABLE

SIGN	DIMENSIONS
R10-3b	9" (228mm) X 12" (305mm)
R10-3d	9" (228mm) X 12" (305mm)
R10-3e	9" (228mm) X 15" (381mm)



BOLT PATTERN

PEDESTRIAN PUSH BUTTON POST, TYPE A

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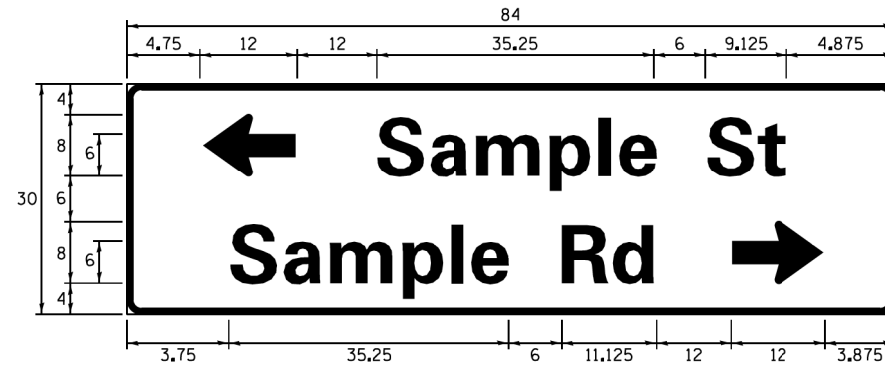
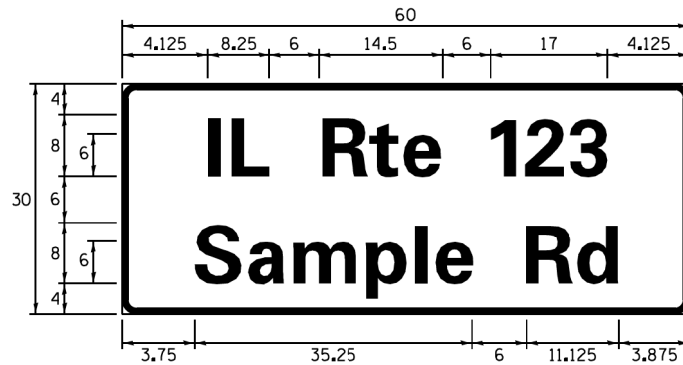
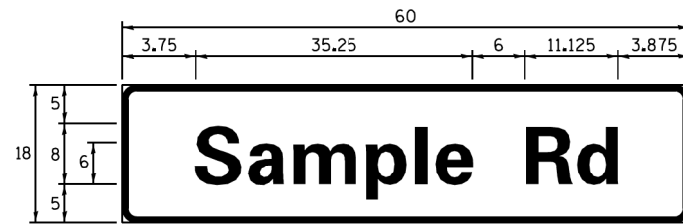
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE SHEET 7 OF 11 SHEETS STA. TO STA.

F.A.P. RTE. 335	SECTION 120N-4	COUNTY MC HENRY	TOTAL SHEETS 126	SHEET NO. 97
CONTRACT NO. 62C06				
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 SYMBOLOGY 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:

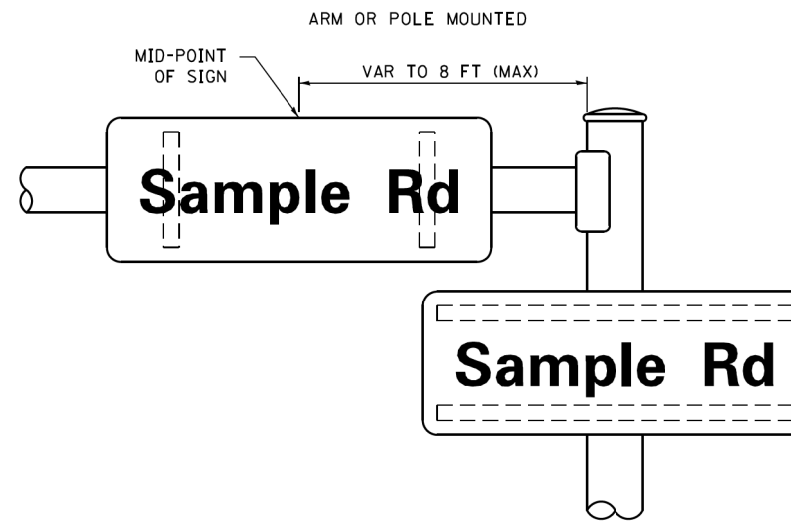
- J.O. HERBERT COMPANY, INC
MIDLOTHIAN, VA
- WESTERN REMAC, INC.
WOODRIDGE, IL

PARTS LISTING:

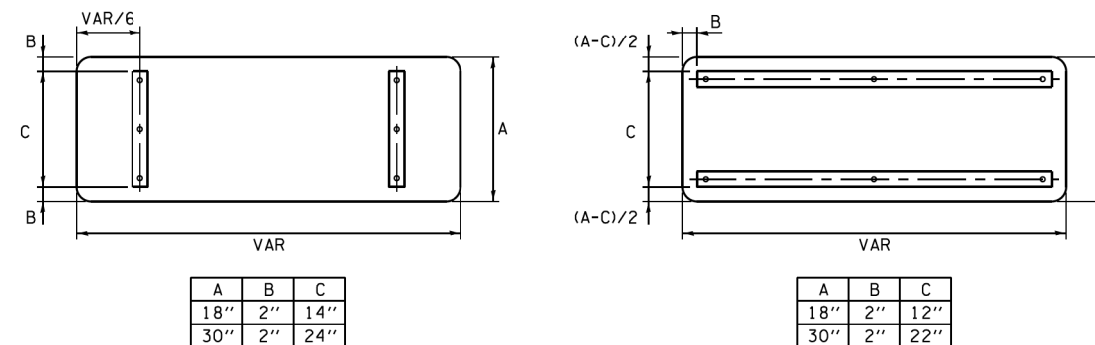
- SIGN CHANNEL PART #HPN053 (MED. CHANNEL)
SIGN SCREWS 1/4" x 14 x 1" H.W.H. #3
SELF TAPPING WITH NEOPRENE WASHER
PART #HPN034 (UNIVERSAL)
BRACKETS CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

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

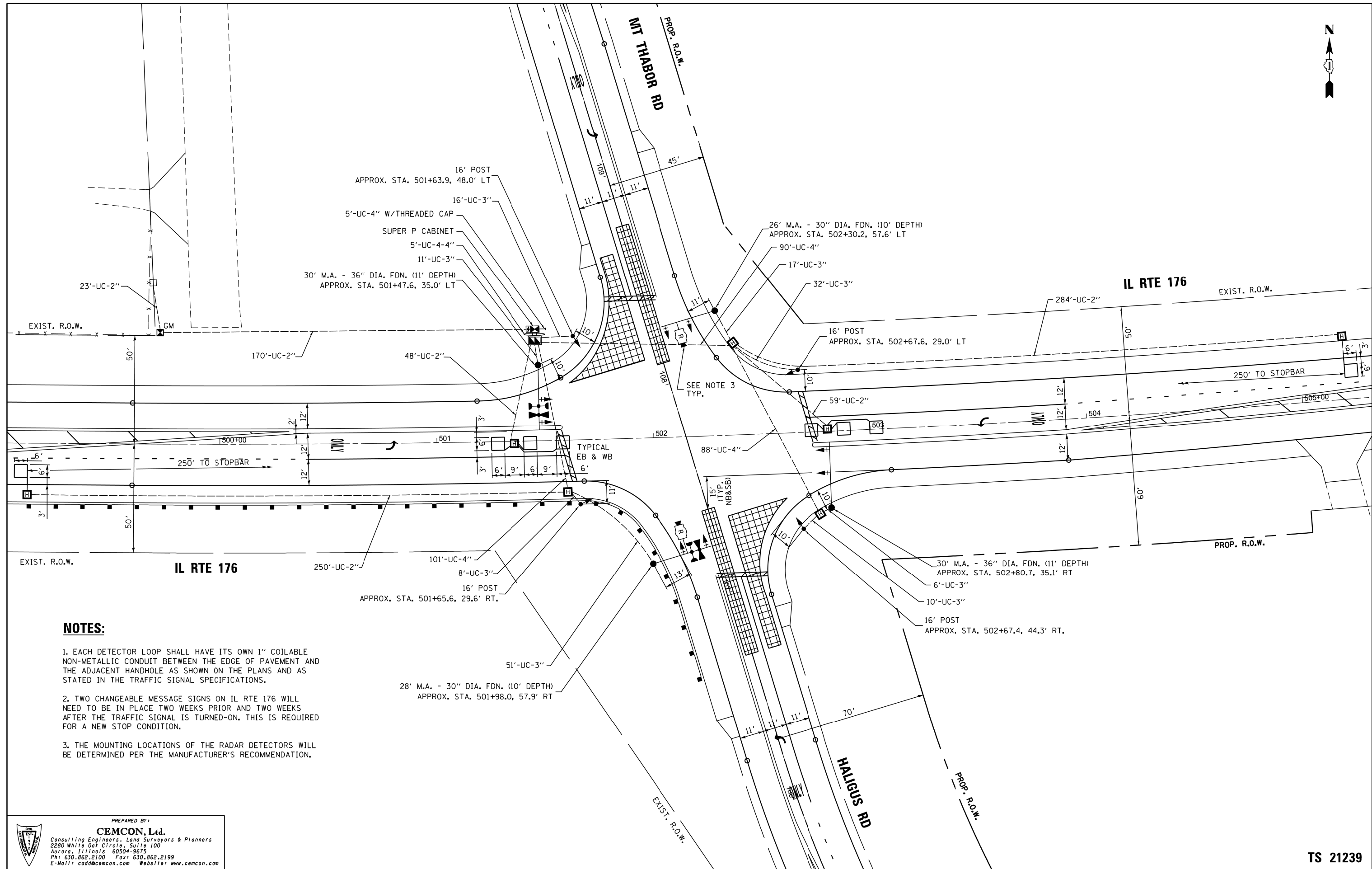


STANDARD ALPHABETS SPACING CHART

(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	4.432	0.480	B	0.960	5.446	0.400
C	0.720	4.432	0.720	C	0.800	5.446	0.800
D	0.880	4.432	0.720	D	0.960	5.446	0.800
E	0.880	4.032	0.480	E	0.960	4.962	0.400
F	0.880	4.032	0.240	F	0.960	4.962	0.240
G	0.720	4.432	0.720	G	0.800	5.446	0.800
H	0.880	4.432	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	4.032	0.880	J	0.240	5.122	0.960
K	0.880	4.432	0.480	K	0.960	5.604	0.400
L	0.880	4.032	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	4.432	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	4.432	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	4.432	0.480	R	0.960	5.446	0.400
S	0.480	4.432	0.480	S	0.400	5.446	0.400
T	0.240	4.032	0.240	T	0.240	4.962	0.240
U	0.880	4.432	0.880	U	0.960	5.446	0.960
V	0.240	4.952	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	4.432	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	4.032	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	4.032	0.720	d	0.480	4.802	0.800
e	0.480	4.032	0.320	e	0.480	4.722	0.320
f	0.320	2.430	0.160	f	0.320	2.882	0.160
g	0.480	4.032	0.720	g	0.480	4.802	0.800
h	0.720	4.032	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	4.032	0.640	n	0.800	4.722	0.720
o	0.480	4.032	0.480	o	0.480	4.882	0.480
p	0.720	4.032	0.480	p	0.800	4.802	0.480
q	0.480	4.032	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	3.352	0.240	s	0.320	3.762	0.240
t	0.080	2.832	0.080	t	0.080	3.202	0.080
u	0.640	4.032	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	4.952	0.160	y	0.160	6.004	0.160
z	0.240	3.352	0.240	z	0.240	4.002	0.240
1	0.720	1.630	0.880	1	0.800	2.000	0.960
2	0.480	4.432	0.480	2	0.800	5.446	0.800
3	0.480	4.432	0.480	3	1.440	5.446	0.800
4	0.240	4.952	0.720	4	0.160	6.004	0.960
5	0.480	4.432	0.480	5	0.800	5.446	0.800
6	0.720	4.432	0.720	6	0.800	5.446	0.800
7	0.240	4.432	0.720	7	0.560	5.446	0.560
8	0.480	4.432	0.480	8	0.800	5.446	0.800
9	0.480	4.432	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

TS SHT. NO. 8



NOTES:

1. 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.
2. TWO CHANGEABLE MESSAGE SIGNS ON IL RTE 176 WILL NEED TO BE IN PLACE TWO WEEKS PRIOR AND TWO WEEKS AFTER THE TRAFFIC SIGNAL IS TURNED-ON. THIS IS REQUIRED FOR A NEW STOP CONDITION.
3. THE MOUNTING LOCATIONS OF THE RADAR DETECTORS WILL BE DETERMINED PER THE MANUFACTURER'S RECOMMENDATION.

TS SHT. NO. 9

PREPARED BY:
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PLOT SCALE = 40,0000' / in.	CHECKED - BPT	DRAWN - RDS	REVISED -
PLOT DATE = 12/5/2018	DATE - 12-05-18		REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

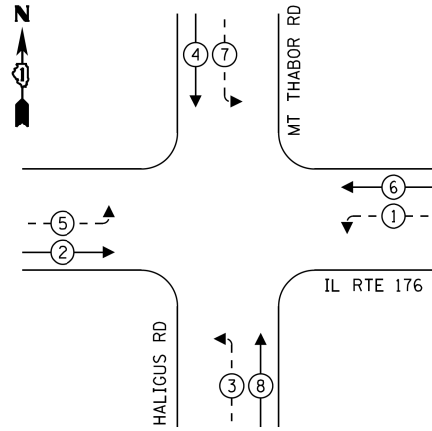
**TRAFFIC SIGNAL INSTALLATION PLAN
 IL RTE 176 AT MT THABOR RD / HALIGUS RD**

SCALE: 1"=20' SHEET 9 OF 11 SHEETS STA. TO STA.

F.A.P. RTE. 335	SECTION 120N-4	COUNTY MCHENRY	TOTAL SHEETS 126	SHEET NO. 99
CONTRACT NO. 62C06				
ILLINOIS FED. AID PROJECT				

TS 21239

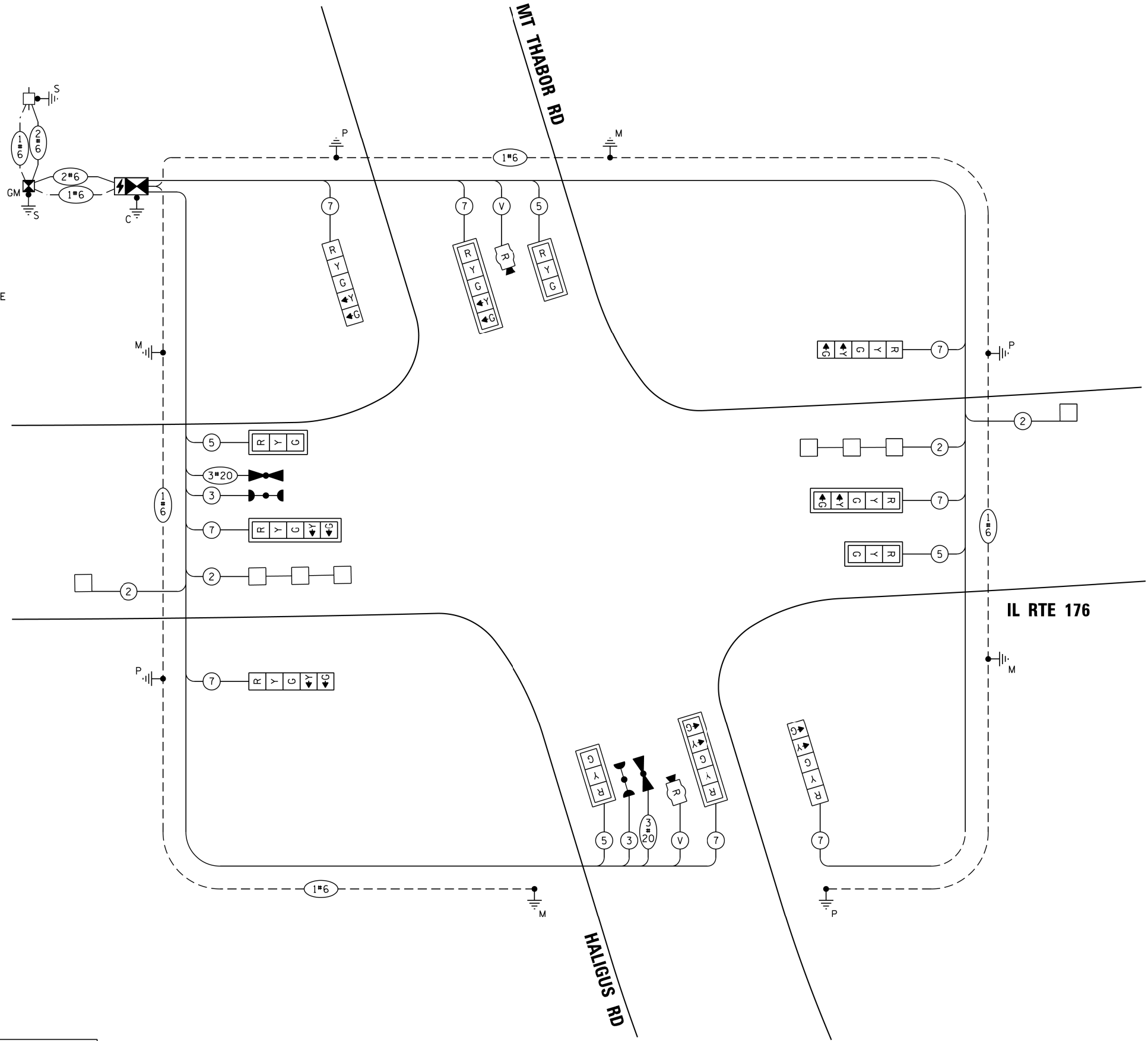
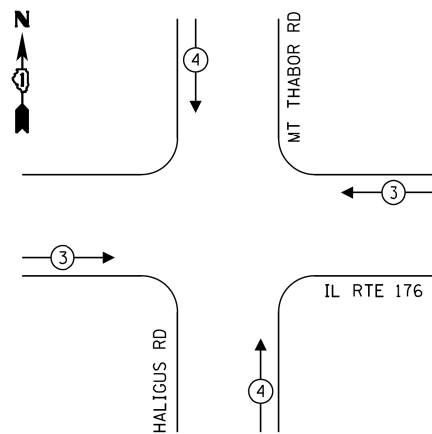
PROPOSED CONTROLLER SEQUENCE



LEGEND:

- ← ⊛ → PROTECTED PHASE
- ← ⊛ - - ⊛ → PROTECTED/PERMITTED PHASE
- ← ⊛ ⊛ → PEDESTRIAN PHASE
- ← ⊛ ⊛ ⊛ → OVERLAP

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	5	12.0
(GREEN)	12	12	45	64.8
PERMISSIVE ARROW	16	10	10	16.0
PED. SIGNAL	0	20	100	0.0
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	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				283.8

ENERGY COSTS TO:

CITY OF CRYSTAL LAKE
100 W. WOODSTOCK ST.
CRYSTAL LAKE, ILLINOIS 60014

ENERGY SUPPLY: CONTACT: MIKE LENOX
PHONE: (815) 490-2869
COMPANY: COMED
ACCOUNT NUMBER: 32440-75020

PREPARED BY:
CEMCON, Ltd.
Consulting Engineers, Land Surveyors & Planners
2280 White Oak Circle, Suite 100
Aurora, Illinois 60504-9675
Ph: 630.862.2100 Fax: 630.862.2199
E-Mail: cadd@cemcon.com Website: www.cemcon.com

TS SHT NO. 10

FILE NAME = J:\Microst\352115 FOUTE 176\Dgn\Eng\Drawings\Final Drafting\DI62C06-SHT-TS10.dgn	USER NAME = brandon	DESIGNED - ARF	REVISED -
		DRAWN - RDS	REVISED -
		CHECKED - BPT	REVISED -
		DATE - 12-05-18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN
(NOT TO SCALE)

CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL RTE 176 AT MT THABOR RD / HALIGUS RD

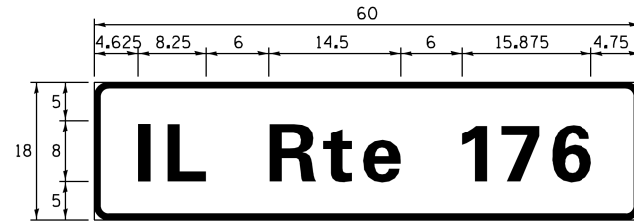
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F.A.P. RTE. 335	SECTION 120N-4	COUNTY MCHENRY	TOTAL SHEETS 126	SHEET NO. 100
CONTRACT NO. 62C06			ILLINOIS FED. AID PROJECT	

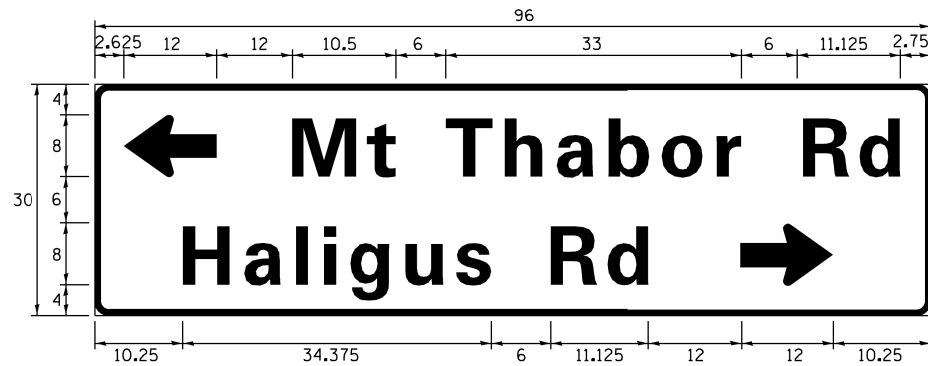
TS 21239

SIGN PANEL – TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

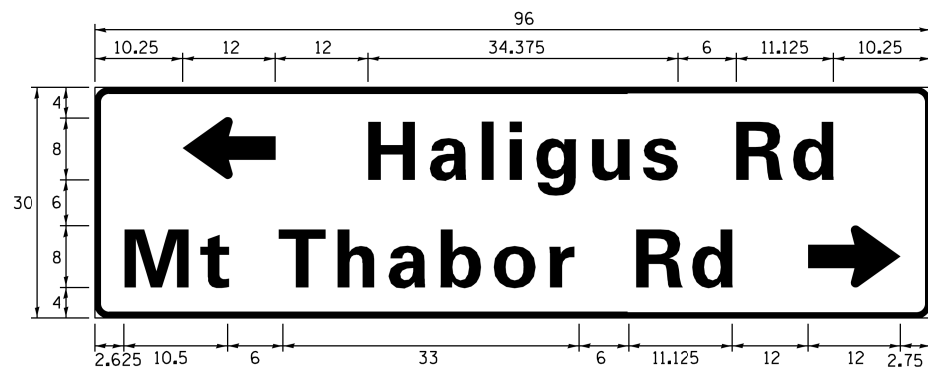


DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	7.5	1	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	20.0	2	ZZ	1

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	20.0	2	ZZ	1

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

SCHEDULE OF QUANTITIES

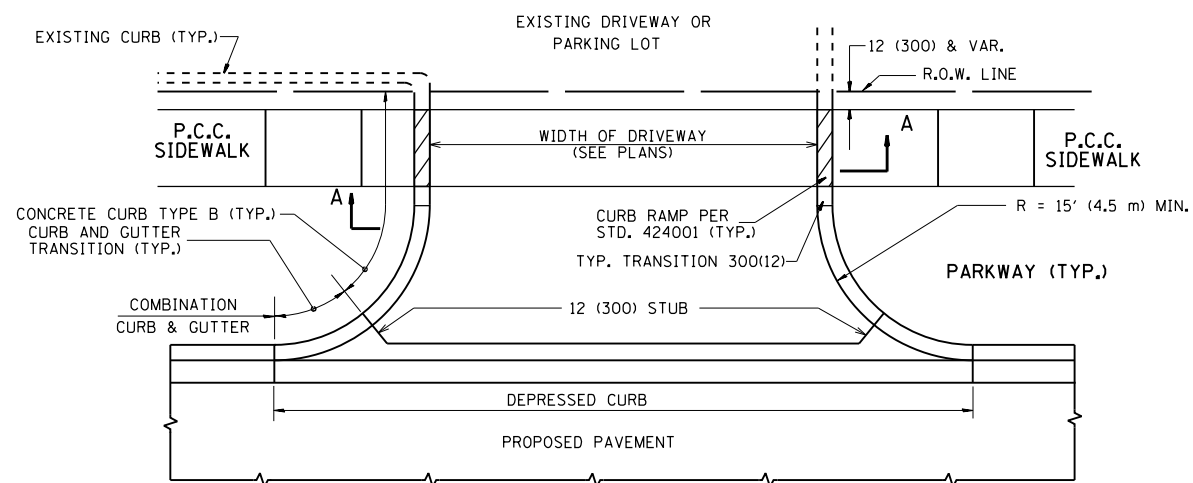
ITEM DESCRIPTION	UNITS	TOTAL QTY.
CHANGEABLE MESSAGE SIGN	CAL DA	60
SIGN PANEL - TYPE 1	SO. FT	15.0
SIGN PANEL - TYPE 2	SO. FT	40.0
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	834
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	151
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	304
HEAVY-DUTY HANDHOLE	EACH	7
DOUBLE HANDHOLE	EACH	1
MAINTENANCE OF EXISTING FLASHING BEACON INSTALLATION	EACH	2
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	320
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	731
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1400
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1059
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	240
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	800
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	2
CONCRETE FOUNDATION, TYPE A	FOOT	20
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	20
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	22
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	8
INDUCTIVE LOOP DETECTOR	EACH	4
DETECTOR LOOP, TYPE I	FOOT	256
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
TEMPORARY BRIDGE TRAFFIC SIGNAL INSTALLATION	EACH	1
RELOCATE EXISTING FLASHING BEACON	EACH	2
REMOVE EXISTING FLASHING BEACON INSTALLATION COMPLETE	EACH	2
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	320
TEMPORARY LIGHTING FOR SINGLE LANE STAGING	L SUM	1
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
RADAR VEHICLE DETECTION SYSTEM, SINGLE APPROACH, STOP BAR	EACH	2
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

- 100% COST TO THE CITY OF CRYSTAL LAKE
- SEE MOT PLANS

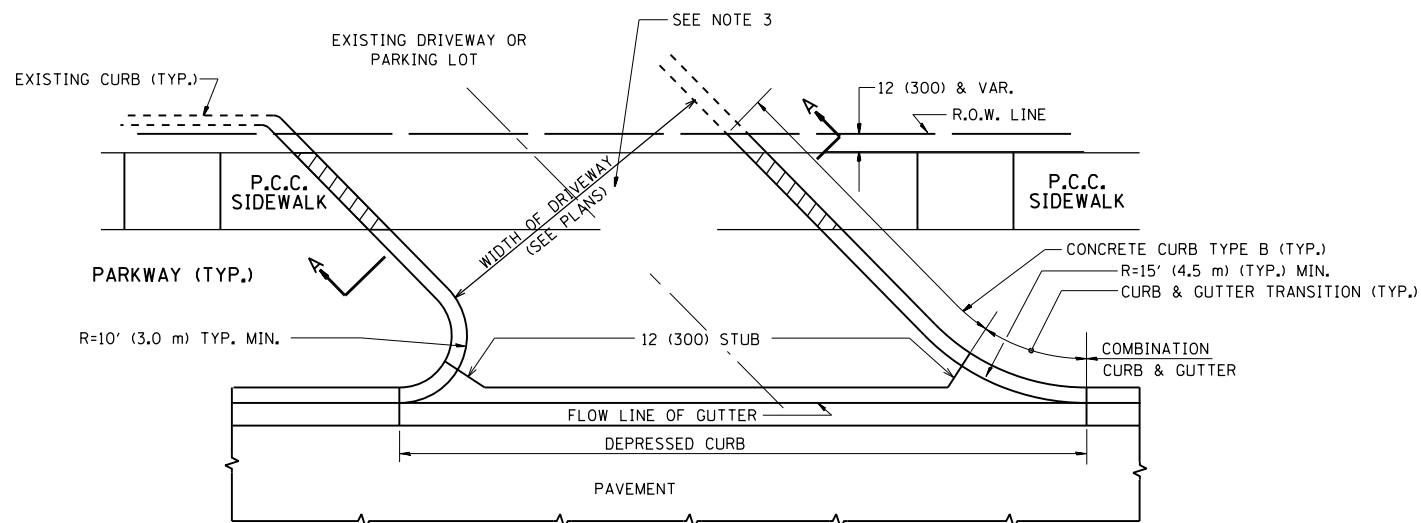
TS SHT NO. 11

TS 21239

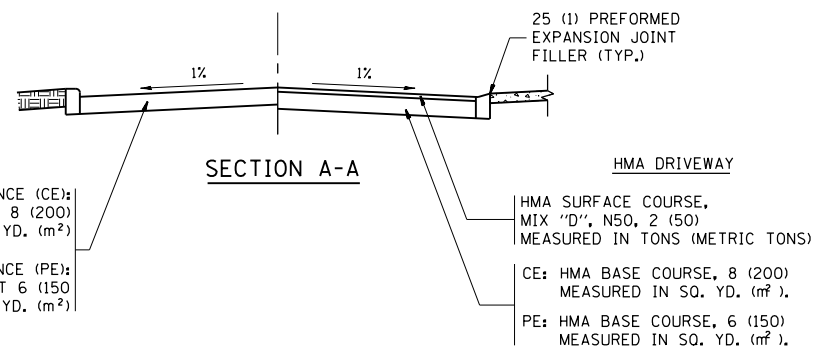
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Default	PLOT SCALE = 40.0000' / in.	CHECKED - BPT	REVISED -			SCALE: N.T.S.	SHEET 11 OF 11 SHEETS	STA. TO STA.	CONTRACT NO. 62C06			
	PLOT DATE = 12/5/2018	DATE - 12-05-18	REVISED -			ILLINOIS FED. AID PROJECT						



WITH CONCRETE CURB, TYPE B

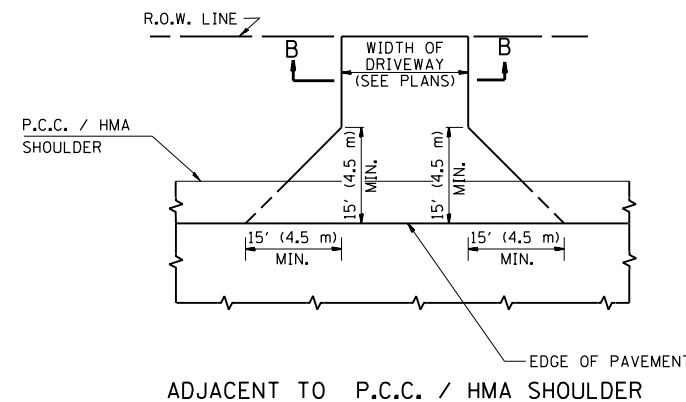


WITH CONCRETE CURB, TYPE B

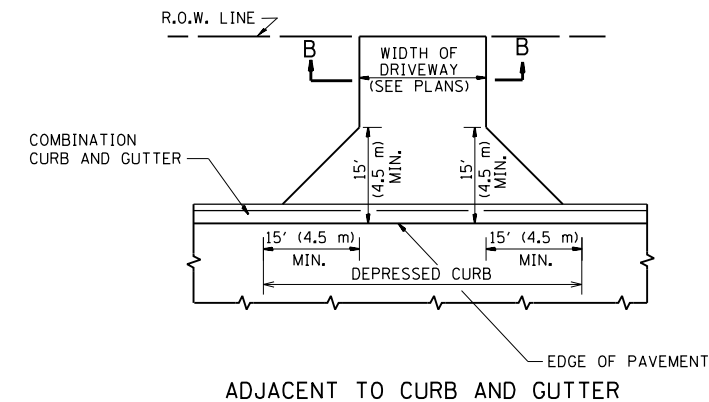


RIGID DRIVEWAY
 COMMERCIAL ENTRANCE (CE):
 P.C.C. DRIVEWAY PAVEMENT 8 (200)
 MEASURED IN SQ. YD. (m²)
 NON-COMMERCIAL ENTRANCE (PE):
 P.C.C. DRIVEWAY PAVEMENT 6 (150)
 MEASURED IN SQ. YD. (m²)

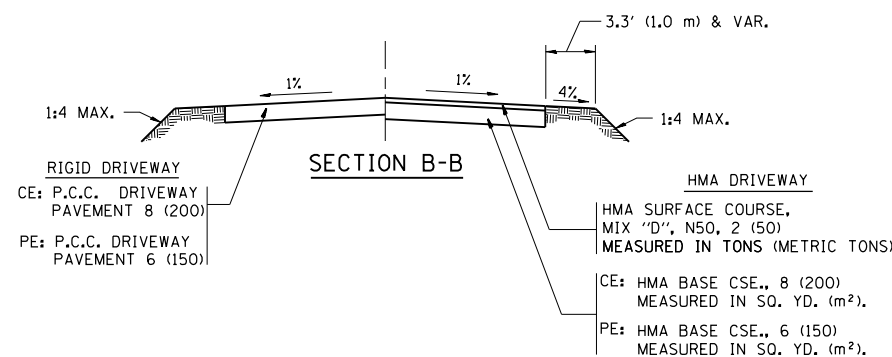
HMA DRIVEWAY
 HMA SURFACE COURSE,
 MIX "D", N50, 2 (50)
 MEASURED IN TONS (METRIC TONS)
 CE: HMA BASE COURSE, 8 (200)
 MEASURED IN SQ. YD. (m²),
 PE: HMA BASE COURSE, 6 (150)
 MEASURED IN SQ. YD. (m²).



ADJACENT TO P.C.C. / HMA SHOULDER



ADJACENT TO CURB AND GUTTER



GENERAL NOTES:

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

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

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

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

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

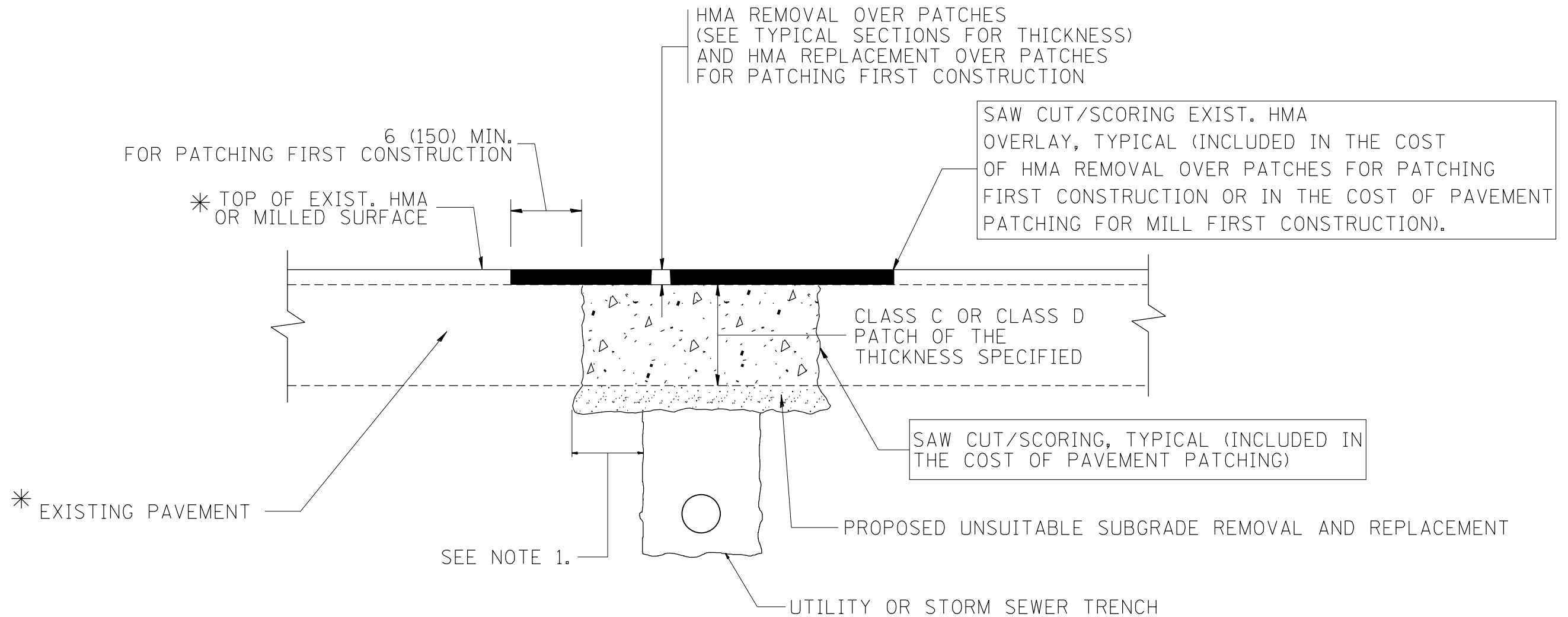
WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

FILE NAME =	USER NAME = Bilgrimes	DESIGNED - R. SHAH	REVISED - P. LaFLUER 04-15-03
pw:\planroom.dot.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\PI15771\DRAWING\Design\DistStd.dgn		CHECKED -	REVISED - R. BORO 01-01-07
PLOT SCALE = 100.0002' / in.		DATE - 11-04-95	REVISED - R. BORO 06-11-08
PLOT DATE = 3/22/2019			REVISED - R. BORO 09-06-11

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	120N-4	MCHENRY	126	102
BD0156-07 (BD-01)		CONTRACT NO. 62C06		
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)

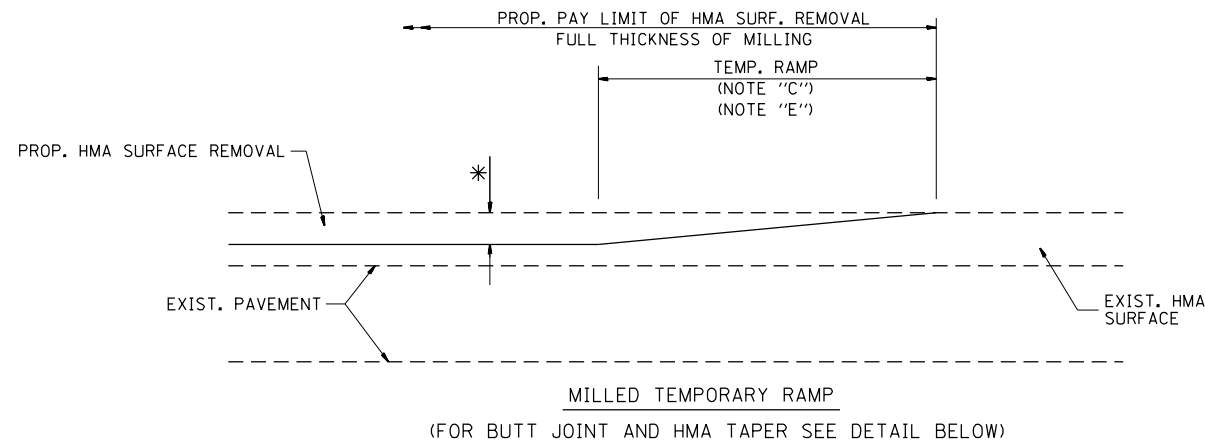
1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

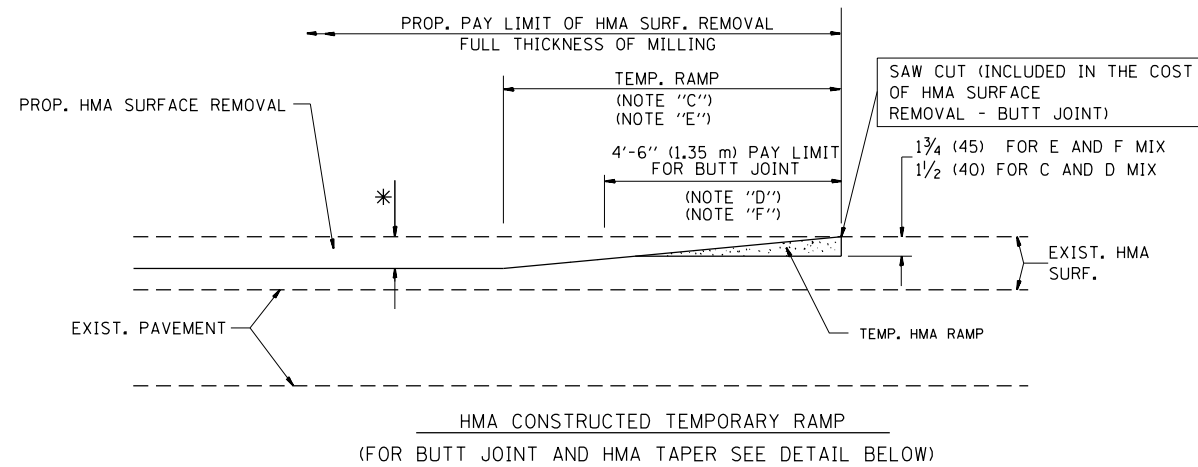
1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

FILE NAME =	USER NAME = Bilgramis	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\planroom.dot.illinois.gov\PIDOT\Documents\IDOT Offices\District 1\Projects\PI15771\DRAWING\Design\DistStd.dgn			REVISED - R. BORO 01-01-07					335	120N-4	MCHENRY	126	103
PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED - R. BORO 09-04-07			BD400-04 (BD-22)		CONTRACT NO. 62C06					
PLOT DATE = 3/22/2019	DATE - 10-25-94	REVISED - K. ENG 10-27-08			SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			

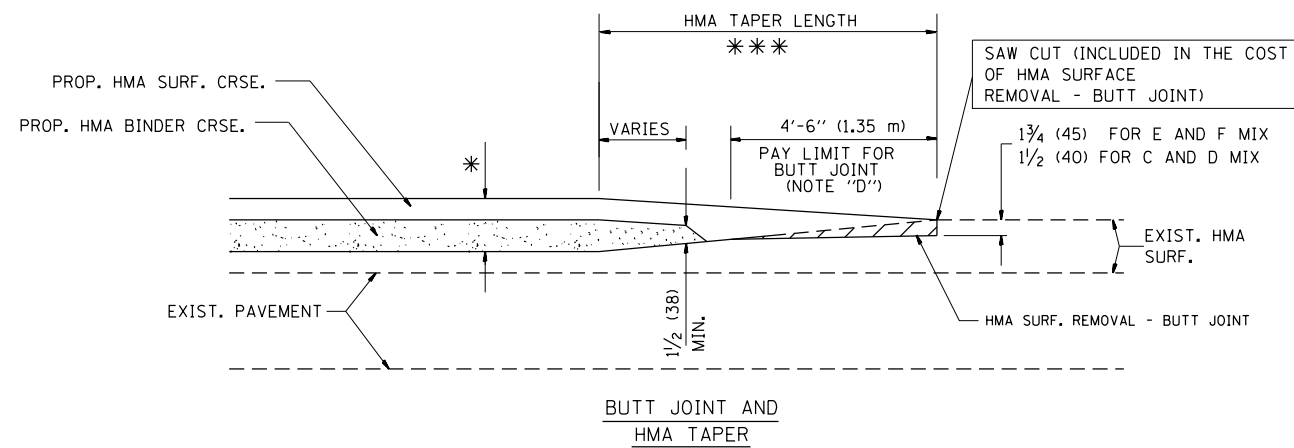


OPTION 1

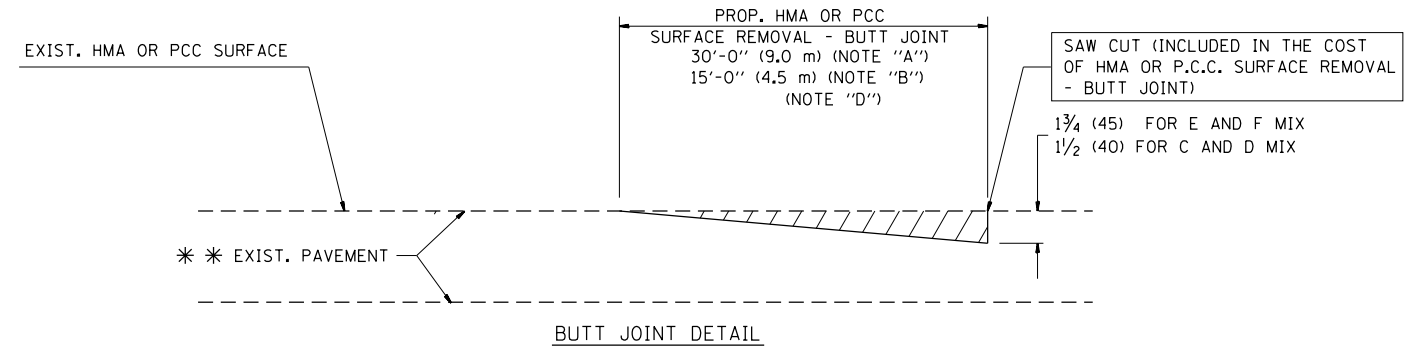


OPTION 2

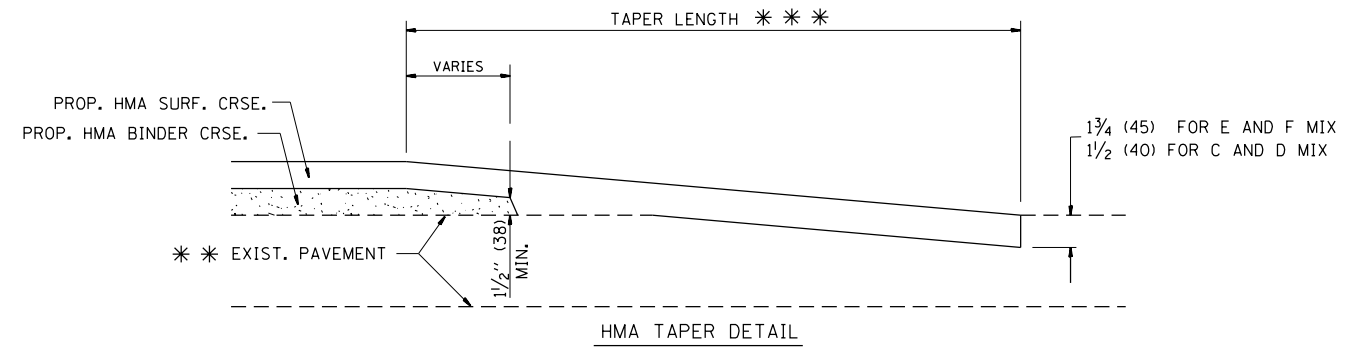
TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR 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.

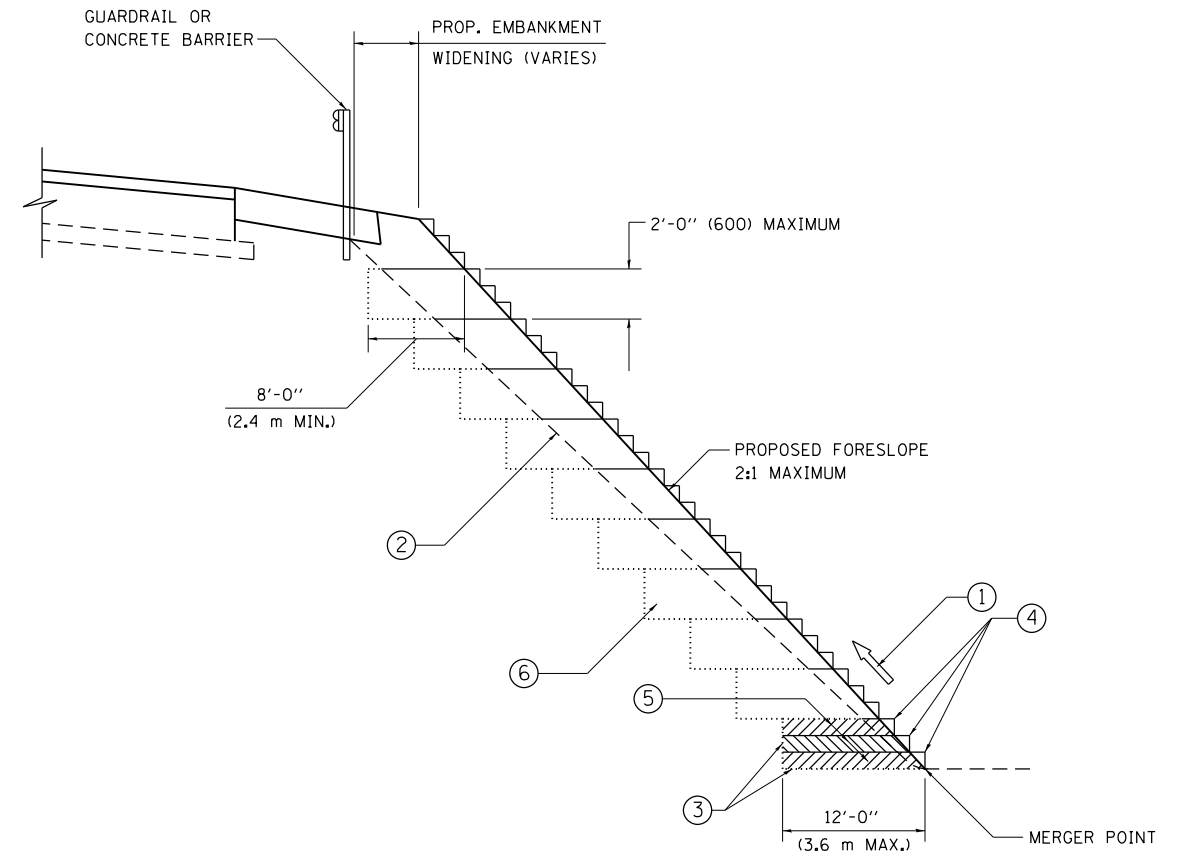
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	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED - M. GOMEZ 04-06-01
	PLOT DATE = 3/22/2019	DATE - 06-13-90	REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND
HMA TAPER DETAILS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	120N-4	MCHENRY	126	104
BD400-05 BD32		CONTRACT NO. 62C06		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**TYPICAL BENCHING DETAIL
FOR EMBANKMENT**

NOTES:

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

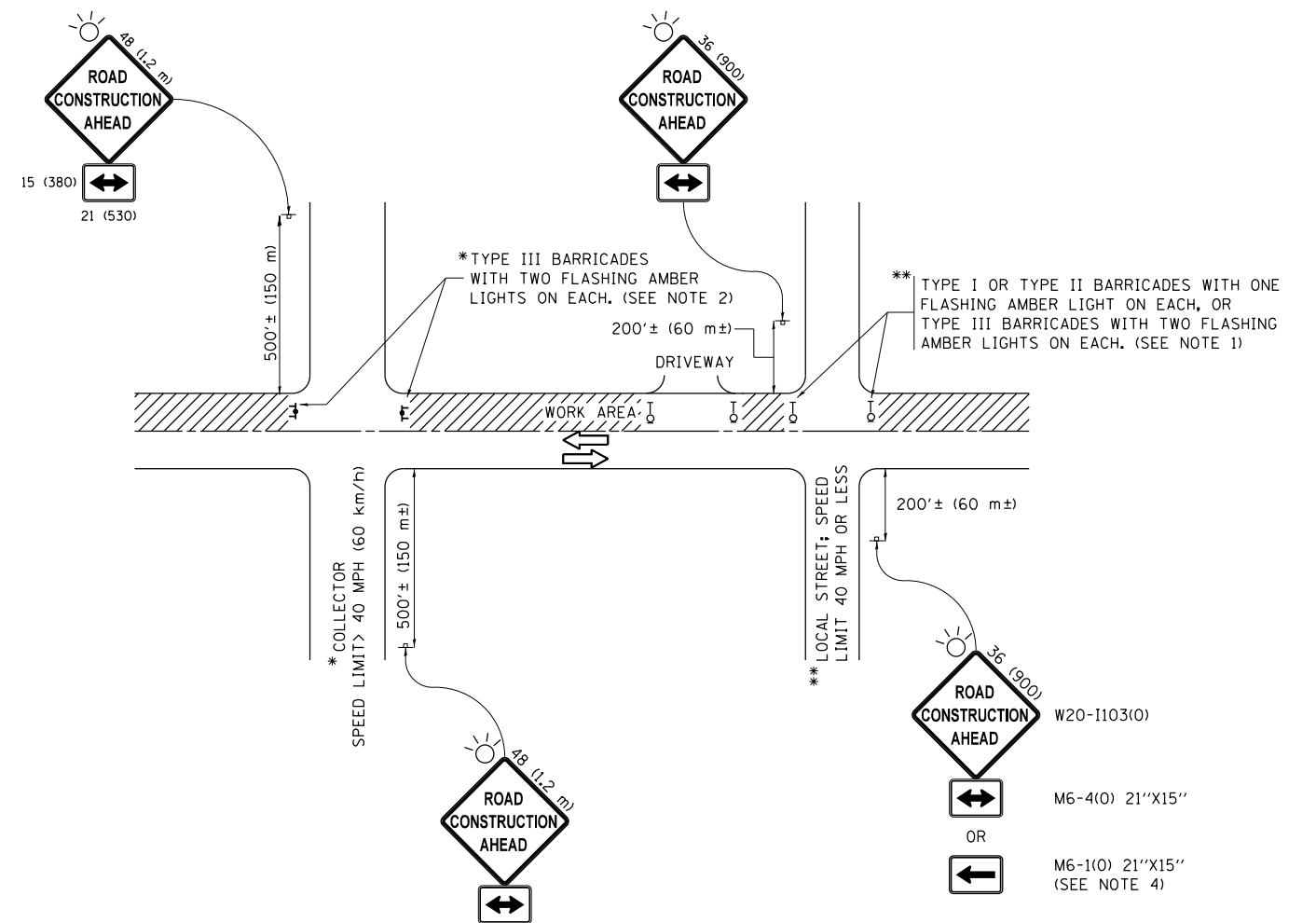
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN.

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Default	PLOT SCALE = 100.0000' / in.	CHECKED - S.E.B.	REVISED -
	PLOT DATE = 3/22/2019	DATE - 06-16-04	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BENCHING DETAIL FOR EMBANKMENT WIDENING			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	120N-4	MCHENRY	126	105
BD-51		CONTRACT NO. 62C06		
ILLINOIS FED. AID PROJECT				



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.

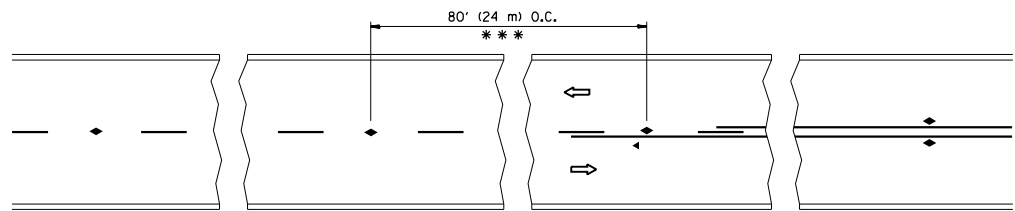
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	PLOT DATE = 3/22/2019	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

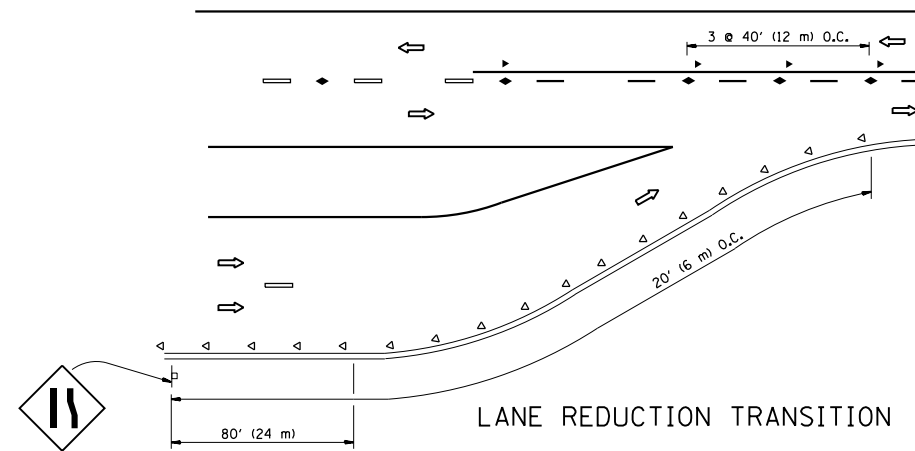
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	120N-4	MCHENRY	126	106
TC-10			CONTRACT NO. 62C06	
ILLINOIS FED. AID PROJECT				

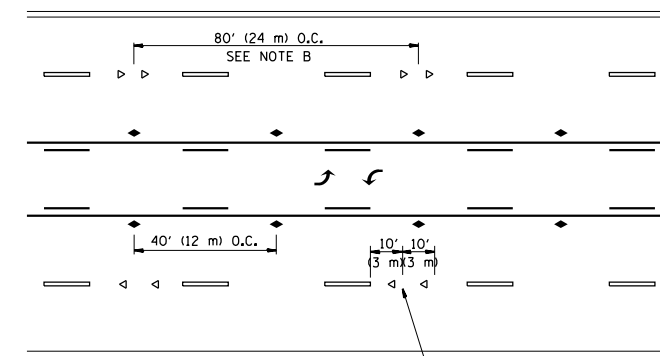


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

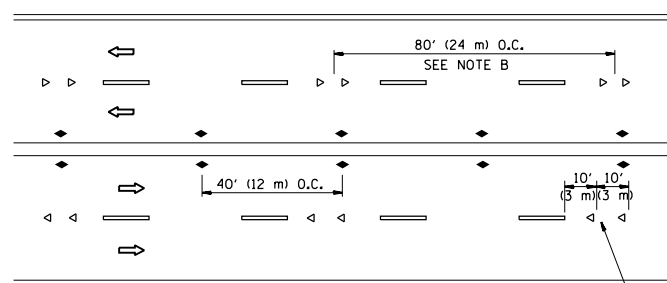
TWO-LANE/TWO-WAY



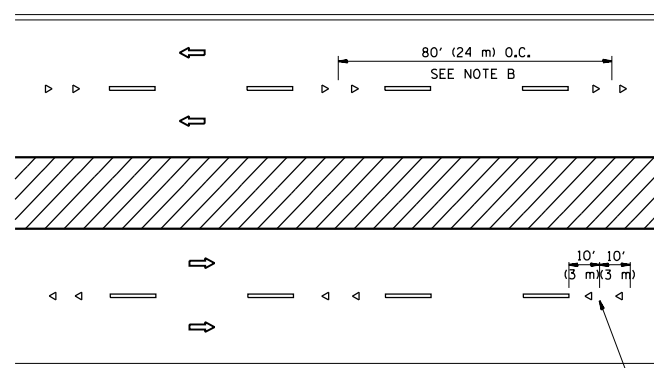
LANE REDUCTION TRANSITION



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

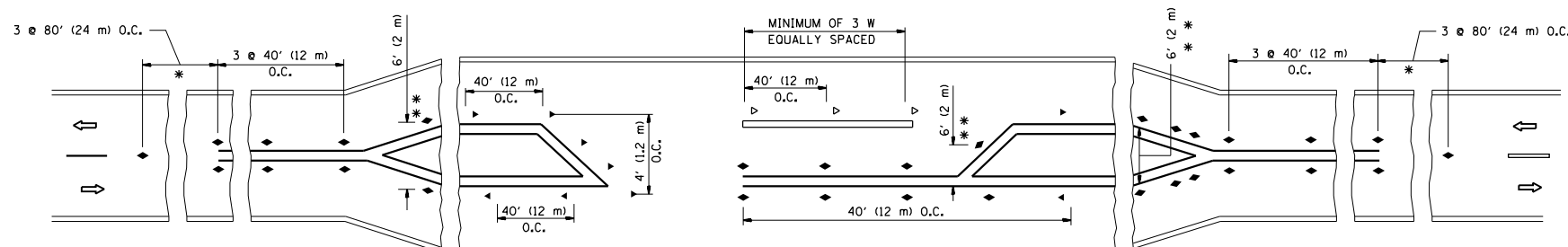
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

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.



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

LEFT TURN

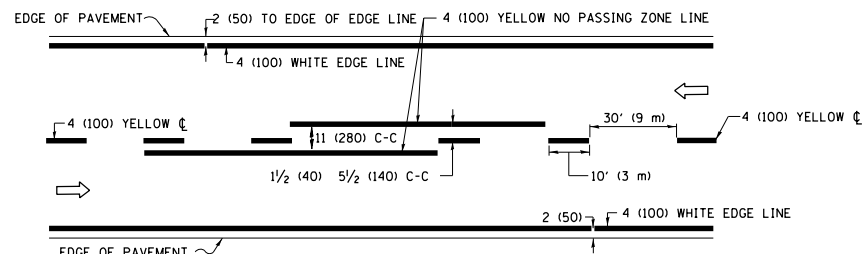
All dimensions are in inches (millimeters) unless otherwise shown.

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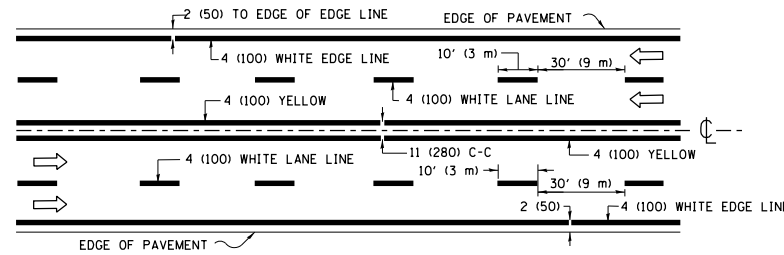
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

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

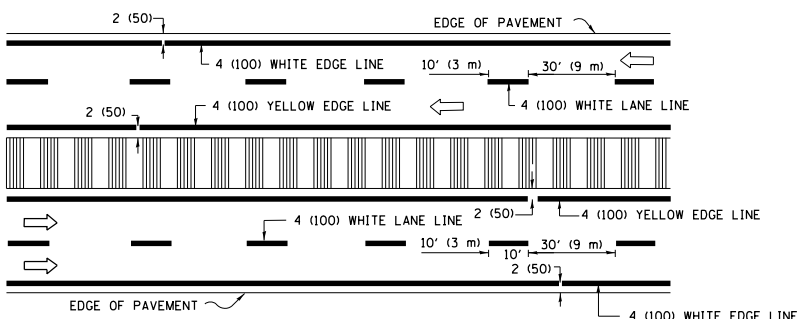
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	120N-4	MCHENRY	126	107
TC-11		CONTRACT NO. 62C06		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



2-LANE ROADWAY

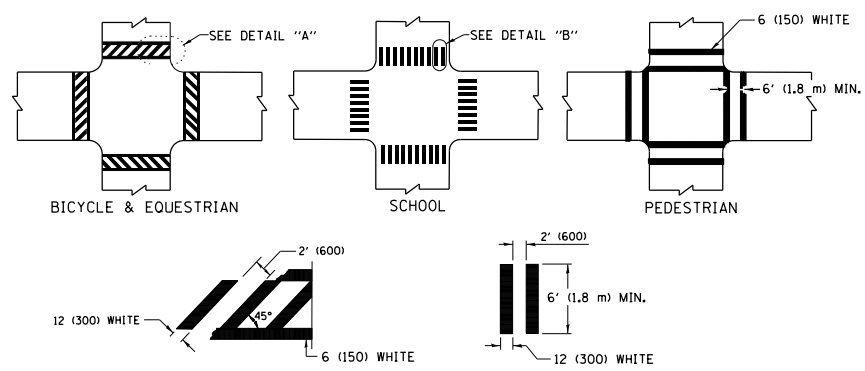


MULTI-LANE UNDIVIDED



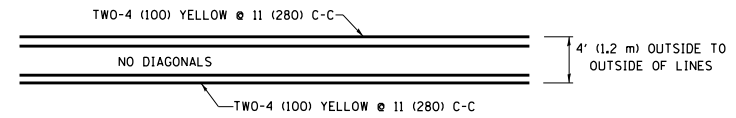
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

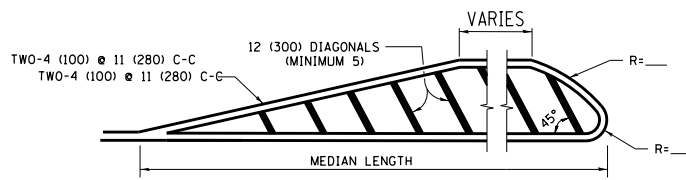


TYPICAL CROSSWALK MARKING

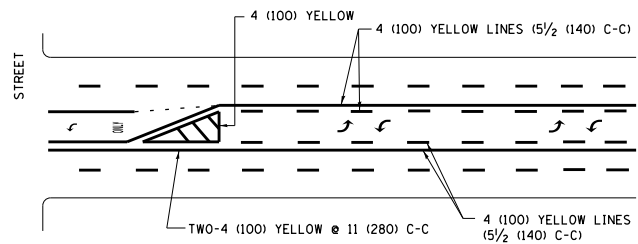
* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



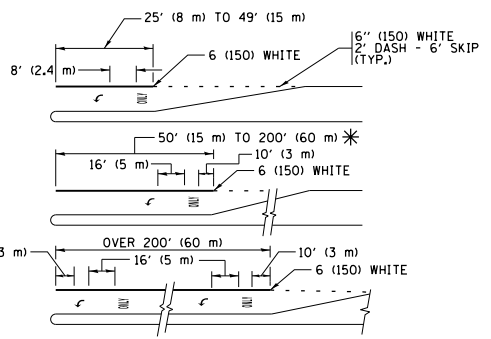
4' (1.2 m) WIDE MEDIANS ONLY



MEDIANS OVER 4' (1.2 m) WIDE



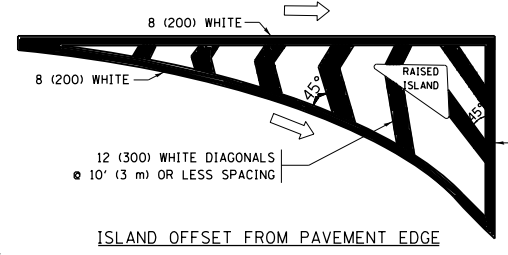
MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING



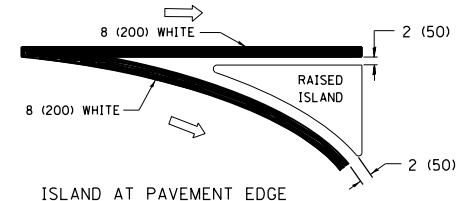
TYPICAL LEFT (OR RIGHT) TURN LANE TYPICAL TURN LANE MARKING

FULL SIZE LETTERS 8" (2.4 m) AND ARROWS SHALL BE USED. AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

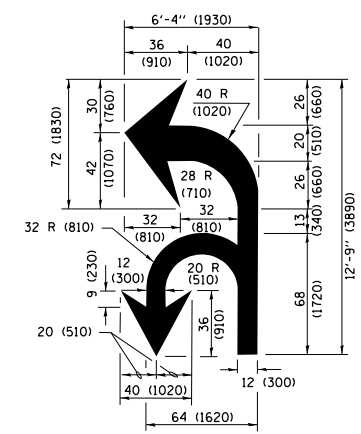
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".



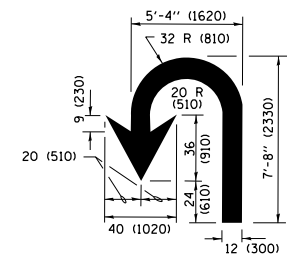
ISLAND OFFSET FROM PAVEMENT EDGE



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 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE 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 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE.
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
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' (22.5 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.

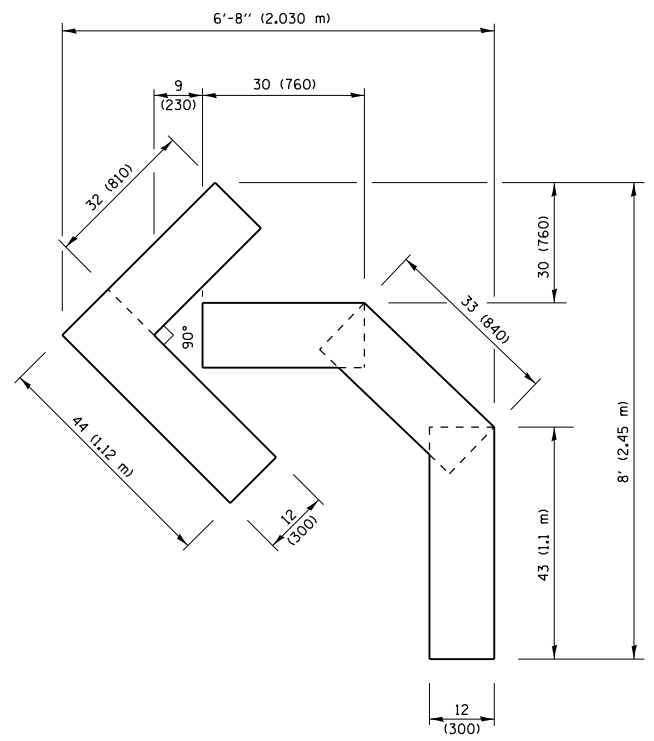
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

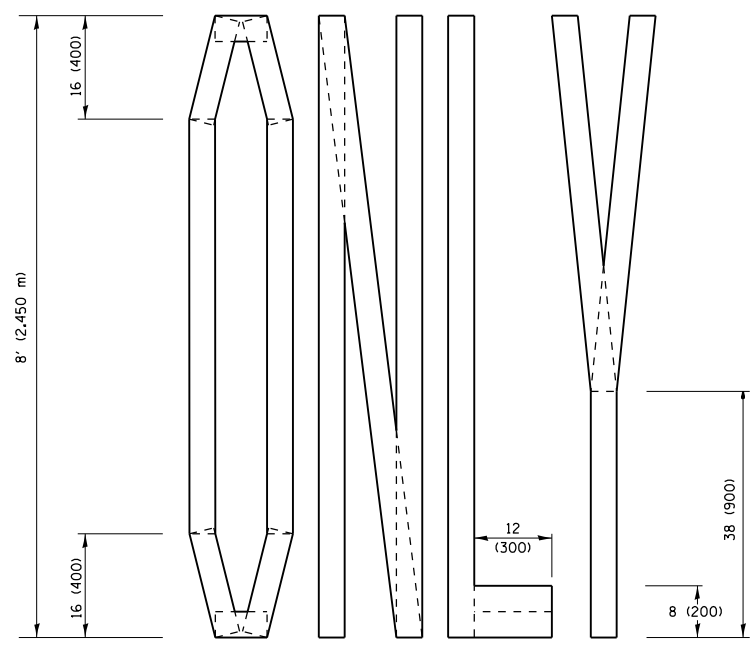
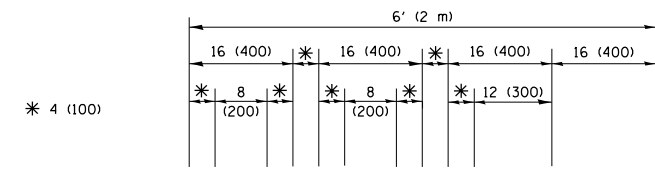
DISTRICT ONE TYPICAL PAVEMENT MARKINGS

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

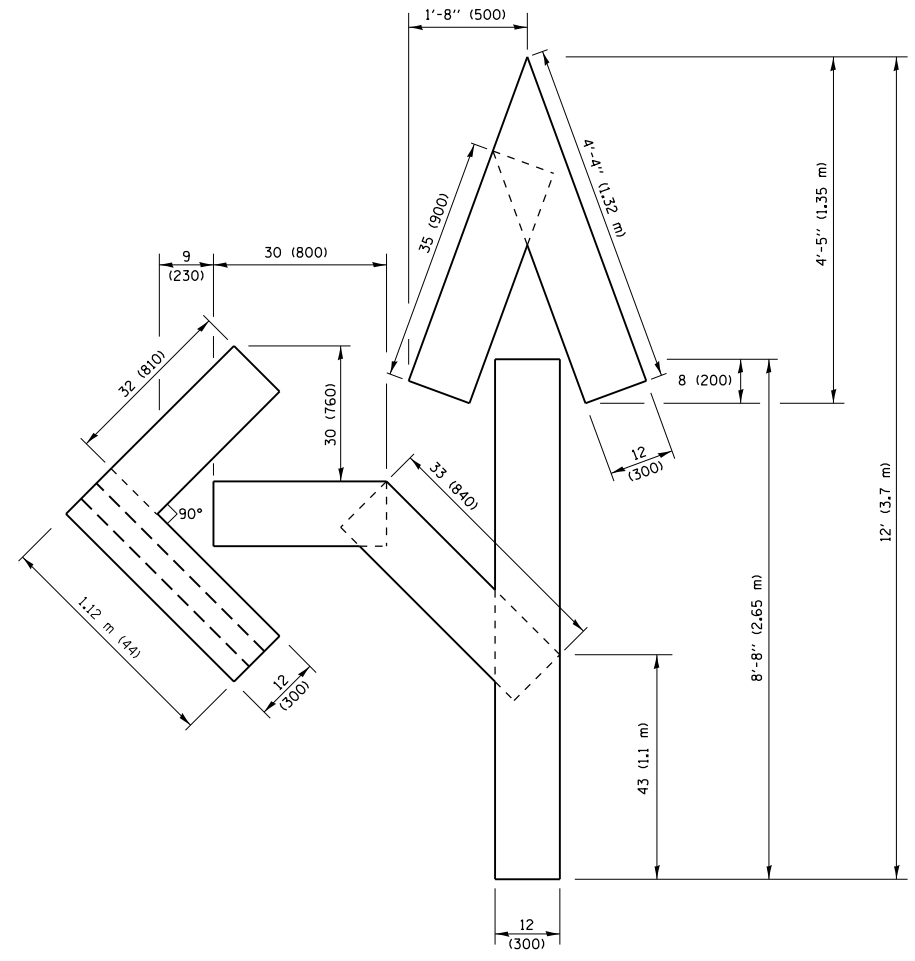
F.A.P R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	120N-4	MCHENRY	126	108
TC-13		CONTRACT NO. 62C06		
ILLINOIS FED. AID PROJECT				



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

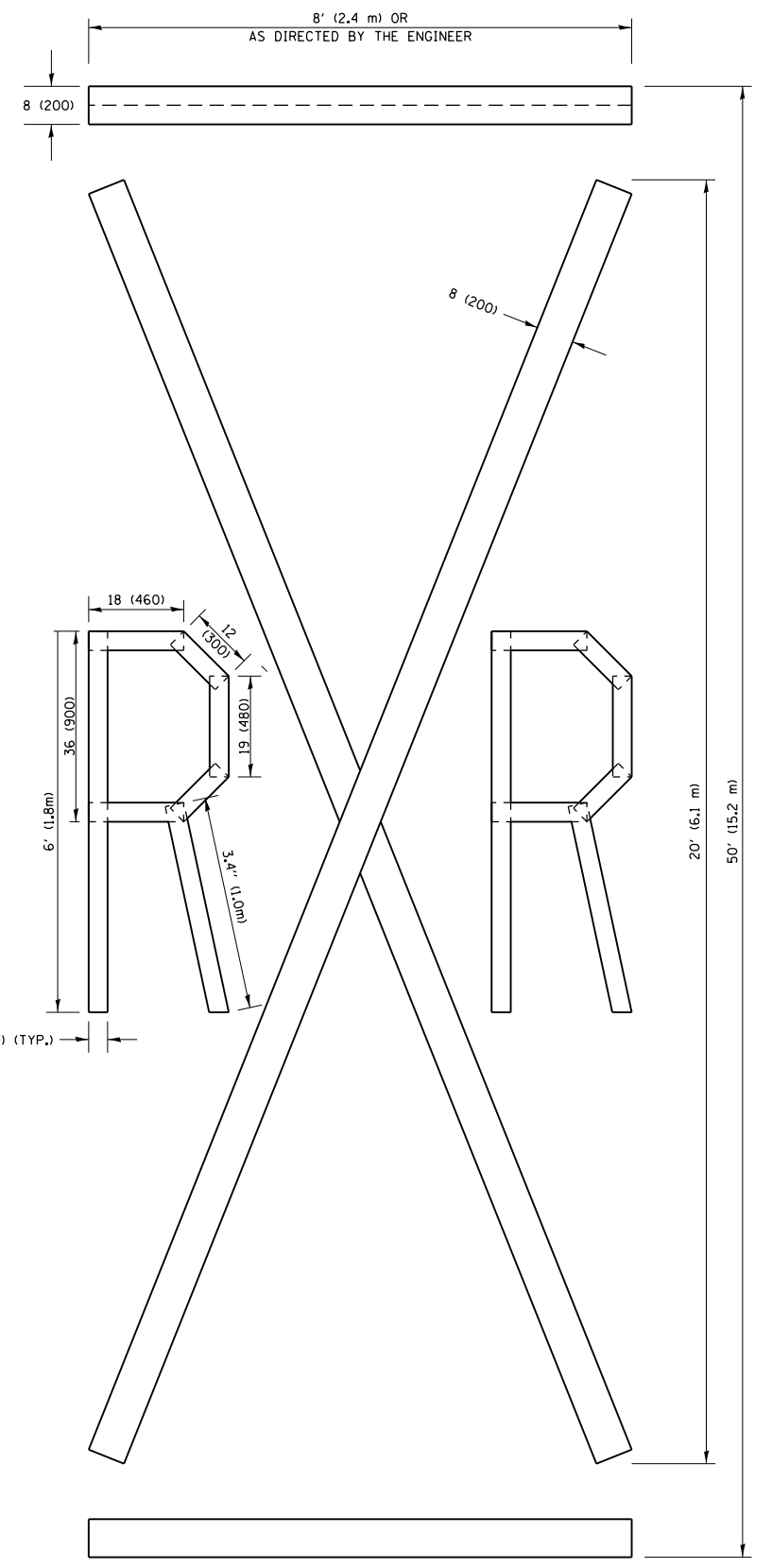


QUANTITY
 4 (100) LINE = 64.1 ft. (19.5 m)
 21.4 sq. ft. (1.99 sq. m)



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)

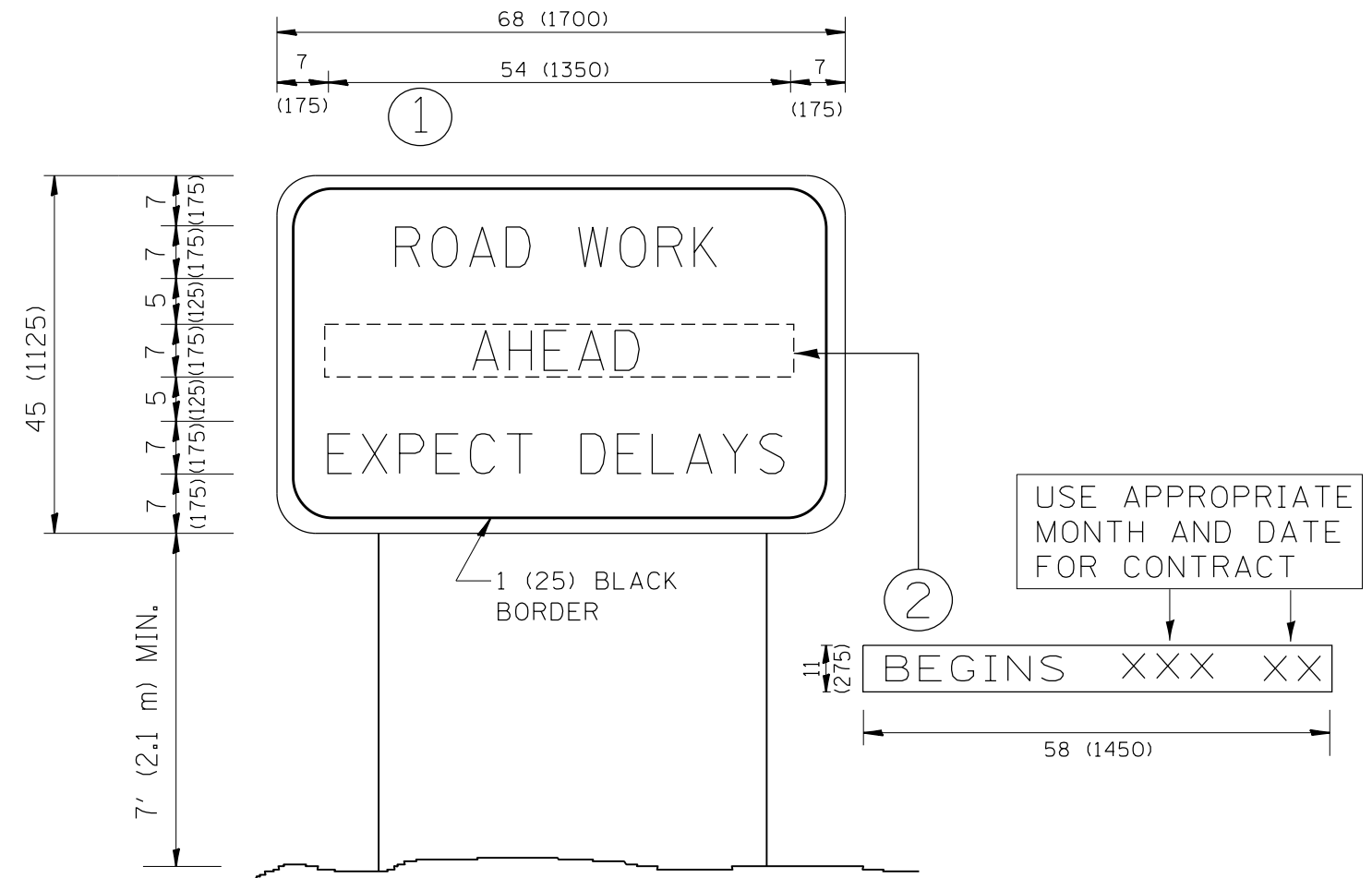
All dimensions are in inches (millimeters)
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		DATE -	REVISED -E. GOMEZ 08-28-00
			REVISED -A. SCHUETZE 09-15-16

**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.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	120N-4	MCHENRY	126	109
TC-16		CONTRACT NO. 62C06		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

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

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

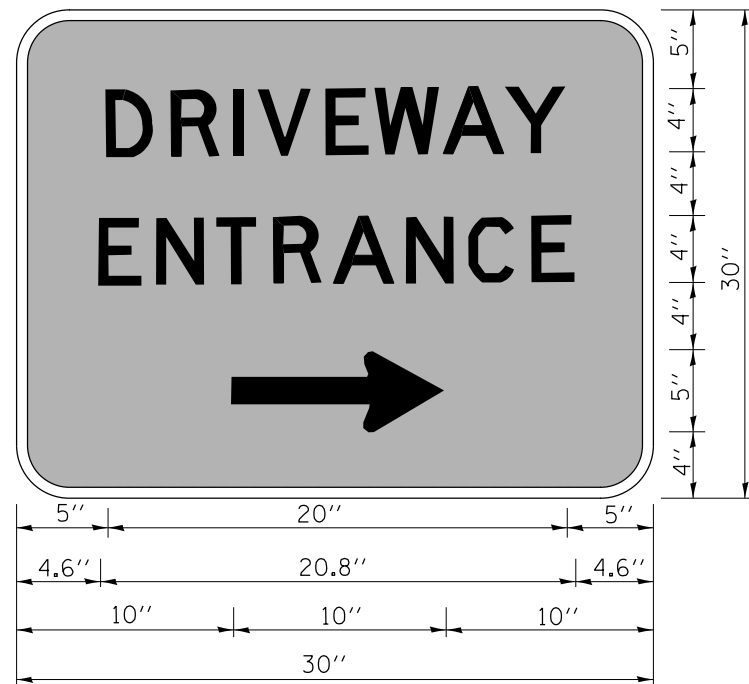
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	PLOT DATE = 3/22/2019		REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	120N-4	MCHENRY	126	110
TC-22		CONTRACT NO. 62C06		
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".

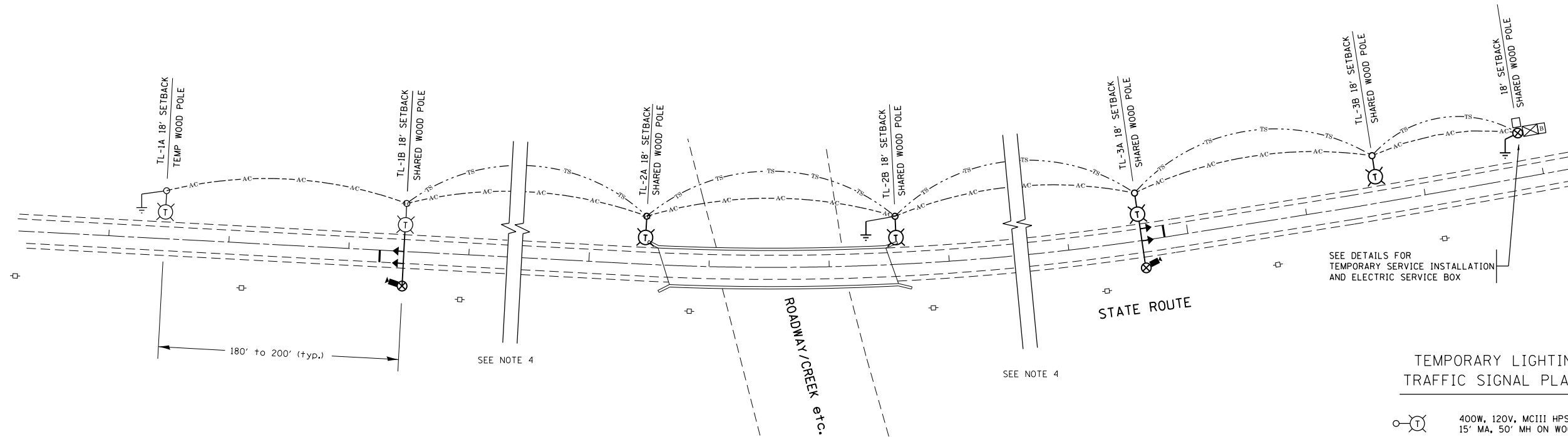
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	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED -
	PLOT DATE = 3/22/2019	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DRIVEWAY ENTRANCE SIGNING

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	120N-4	MCHENRY	126	111
TC-26			CONTRACT NO. 62C06	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



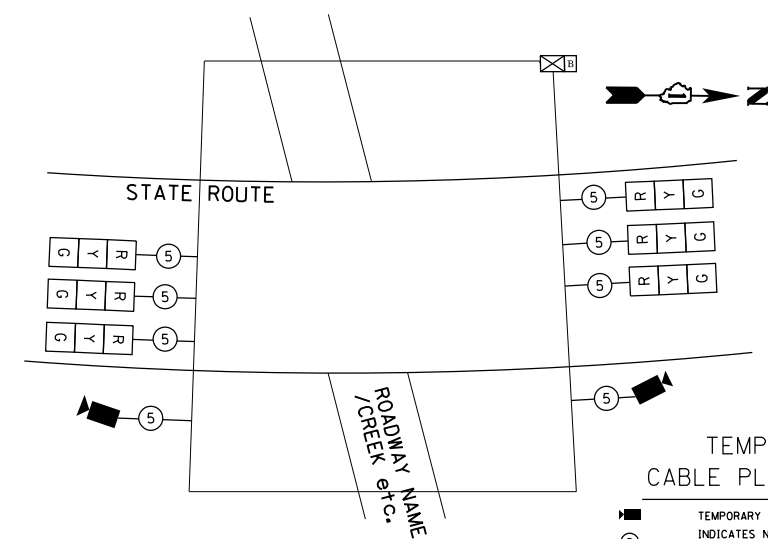
TYPICAL LAYOUT FOR TEMPORARY LIGHTING AND TRAFFIC SIGNALS
NOT TO SCALE

GENERAL NOTES:

- CONTACT TO THE ELECTRIC UTILITY SHALL BE INITIATED BEFORE THE PRECONSTRUCTION MEETING, AND DOCUMENTATION OF CONTACT SHALL BE PRESENTED AT THAT MEETING. NO PLACEMENT OF POLES WILL BE ALLOWED WITHOUT EVIDENCE OF A SIGNED AGREEMENT WITH THE ELECTRIC UTILITY, FURNISHED TO THE ENGINEER.
- UNLESS OTHERWISE INDICATED, AND EXCEPT AS OTHERWISE NOTED, THIS STANDARDIZED LAYOUT SHALL APPLY FOR BRIDGES NOT EXCEEDING A 250-FOOT SPAN. FOR BRIDGE SPANS IN EXCESS OF 250 FEET, THE POLES IMMEDIATELY ADJACENT TO THE BRIDGE SHALL BE 100-FOOT POLES (90-FOOT MOUNTING HEIGHT), WITH 750-WATT TYPE III HIGH PRESSURE SODIUM HIGH-MAST LUMINAIRES AS APPROVED BY THE ENGINEER.
- THE LAYOUT OF THE TEMPORARY EQUIPMENT WILL VARY BASED ON FIELD CONDITIONS, STAGING, UTILITY IMPACTS, AND THE ELECTRIC SERVICE LOCATION AS COORDINATED WITH THE ELECTRIC UTILITY. THE CONTRACTOR SHALL SUBMIT A PLAN INDICATING THE SETTING OF POLES, TRAFFIC SIGNALS, AND COMBINED SERVICE. THIS PLAN MUST BE APPROVED BY THE ENGINEER BEFORE ANY POLES ARE PLACED
- THE ELECTRIC SERVICE SHALL BE 240/120V. WHERE 240V SERVICE IS NOT AVAILABLE, THE CONTRACTOR MAY SUBMIT A PROPOSAL FOR 120V SERVICE, DROP CABLE, MAIN BREAKER, AND ALL OTHER SERVICE APPURTENANCES SHALL BE APPROPRIATELY RATED AND INCLUDED REGARDLESS OF THE SERVICE VOLTAGE APPLIED
- THE TEMPORARY LIGHTING AND TRAFFIC SIGNAL INSTALLATION SHALL SHARE ANY COMMON ELEMENTS SUCH AS WOOD POLES, ELECTRICAL SERVICE, ELECTRIC SERVICE BOX, ETC. THE CONTRACTOR SHALL COORDINATE TEMPORARY LIGHTING AND TRAFFIC SIGNAL INSTALLATIONS.
- THE LIGHT POLE SETBACK FROM THE EDGE OF TRAVEL PAVEMENT SHALL BE 18 FT. UNLESS THE LIGHT POLE IS BEHIND GUARDRAIL. THE LIGHT POLES INSTALLED BEHIND THE GUARDRAIL OR BARRIER WALL SHOULD HAVE AT LEAST 8 FT. SETBACK FROM THE BACK OF THE SHOULDER AND OR AS DIRECTED BY THE ENGINEER.
- EACH LIGHTING UNIT SHALL BE CONTROLLED BY A PHOTO CELL MOUNTED ON EACH LUMINAIRE WITH THE LIGHTING CIRCUIT FED FROM THE TEMPORARY SERVICE DISCONNECT BOX. OTHER MEANS OF LUMINAIRE CONTROL CAN BE CONSIDERED IF APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL SPLICE AERIAL CABLE AT THE LIGHT POLE USING HEAT SHRINKABLE CAPS WITH THE FACTORY APPLIED WATERPROOF SEALANT OR AN APPROVED UL LISTED AERIAL TAP DEVICE.
- ALL AREAS DISTURBED UNDER THIS CONTRACT SHALL BE RESTORED TO THE ORIGINAL CONDITION OR BETTER, TO THE SATISFACTION OF THE ENGINEER.

TEMPORARY LIGHTING AND TRAFFIC SIGNAL PLAN LEGEND

- 400W, 120V, MCIII HPS. WITH PHOTO CELL 15' MA, 50' MH ON WOOD POLE, CLASS 4
- 3-1/2" x 2, AERIAL CABLE WITH MESSENGER WIRE UNLESS OTHERWISE NOTED
- TL-1A TEMPORARY LIGHTING UNIT NUMBER - ONE CIRCUIT A
- GROUND ROD 5/8" DIA. x 10'
- COMBINATION LIGHTING AND TRAFFIC POLE MOUNTED ELECTRICAL SERVICE BOX
- TEMPORARY WOOD POLE - NOMINAL 60 FT., CLASS 4
- TEMPORARY LED TRAFFIC SIGNAL HEAD, NUMBER OF SECTION AND DISPLAY AS REQUIRED.
- TEMPORARY TRAFFIC SIGNAL SPAN WIRE, NUMBER OF CONDUCTORS AS REQUIRED.
- TEMPORARY TRAFFIC CONTROLLER WITH UPS AND BOTTOM PLATE MOUNTED TO WOOD POLE
- TEMPORARY VIDEO DETECTOR



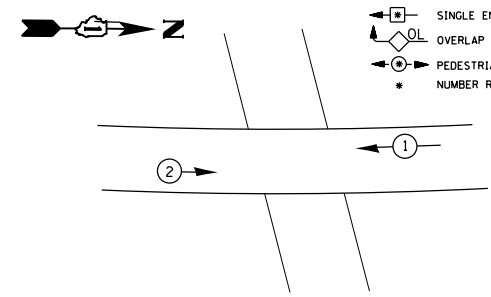
TEMPORARY CABLE PLAN (TYPICAL)
NOT TO SCALE

TEMPORARY CABLE PLAN LEGEND

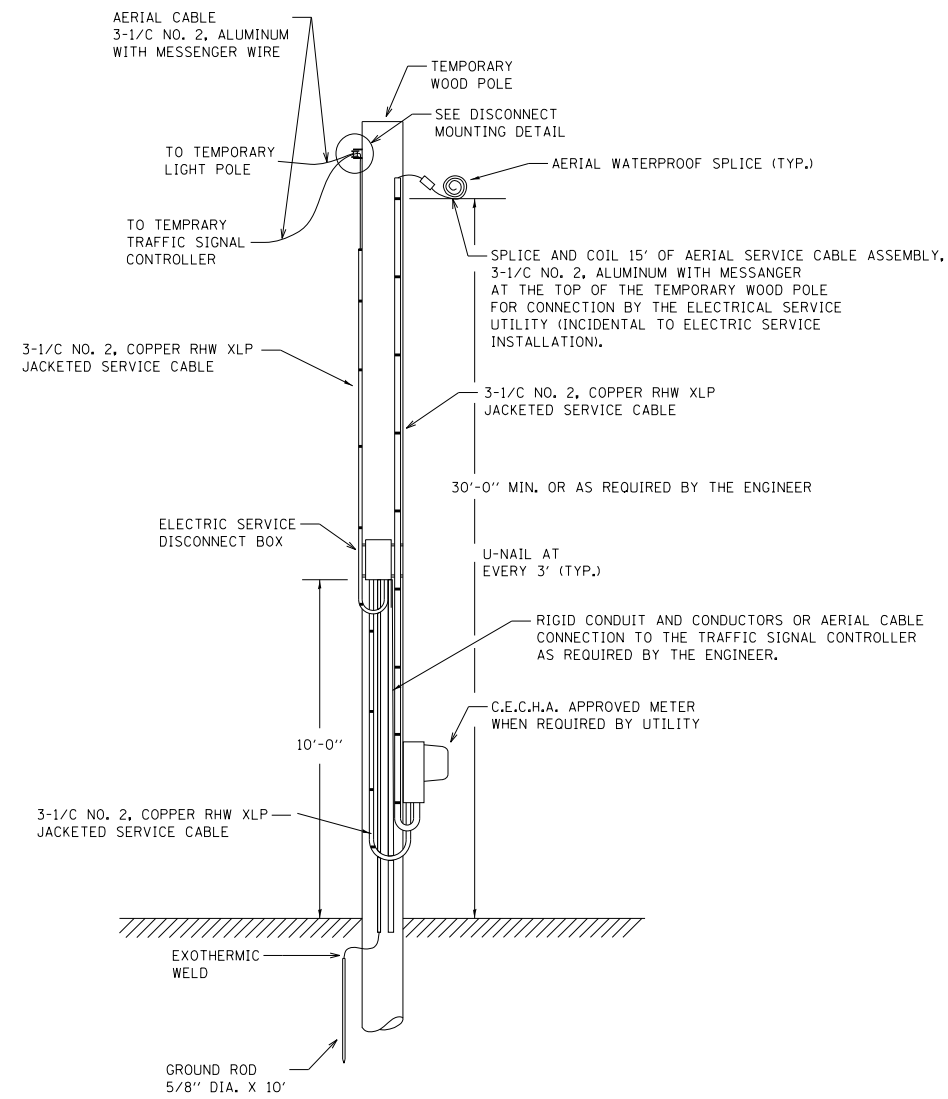
- TEMPORARY VIDEO DETECTOR
- INDICATES NUMBER OF CONDUCTORS IN CABLE. ALL CONDUCTORS TO BE NUMBER 14 AWG WIRE UNLESS OTHERWISE NOTED.
- TEMPORARY TRAFFIC SIGNAL SECTION OR PEDESTRIAN SIGNAL SECTION, 12" (300 mm)

TEMPORARY PHASE DESIGNATION DIAGRAM LEGEND

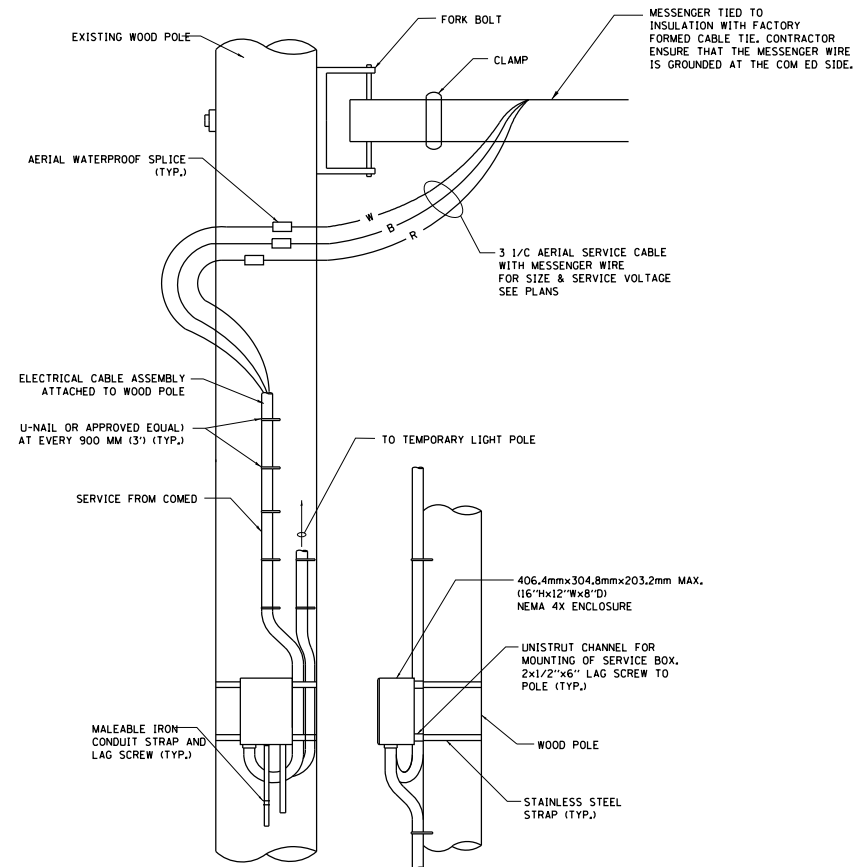
- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE



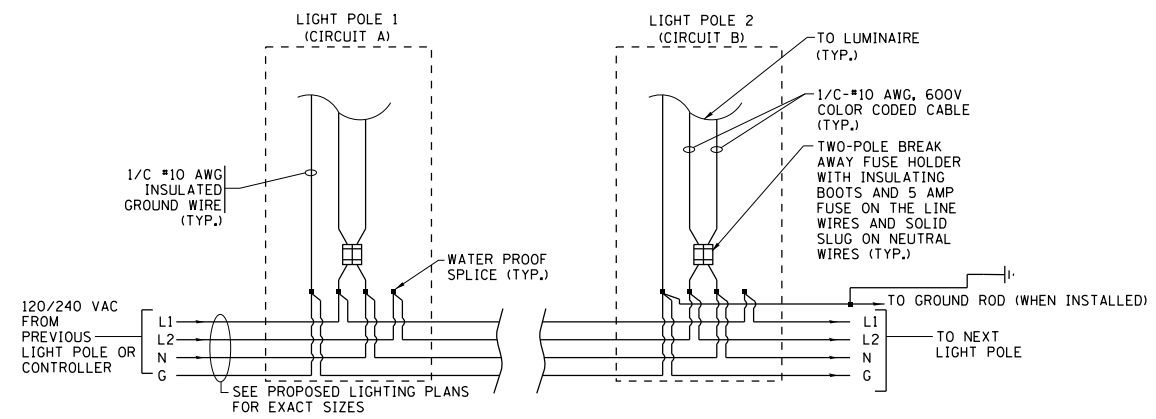
TEMPORARY PHASE DESIGNATION DIAGRAM (TYPICAL)
NOT TO SCALE



TEMPORARY SERVICE INSTALLATION DETAIL
NOT TO SCALE



DISCONNECT MOUNTING DETAIL
NOT TO SCALE



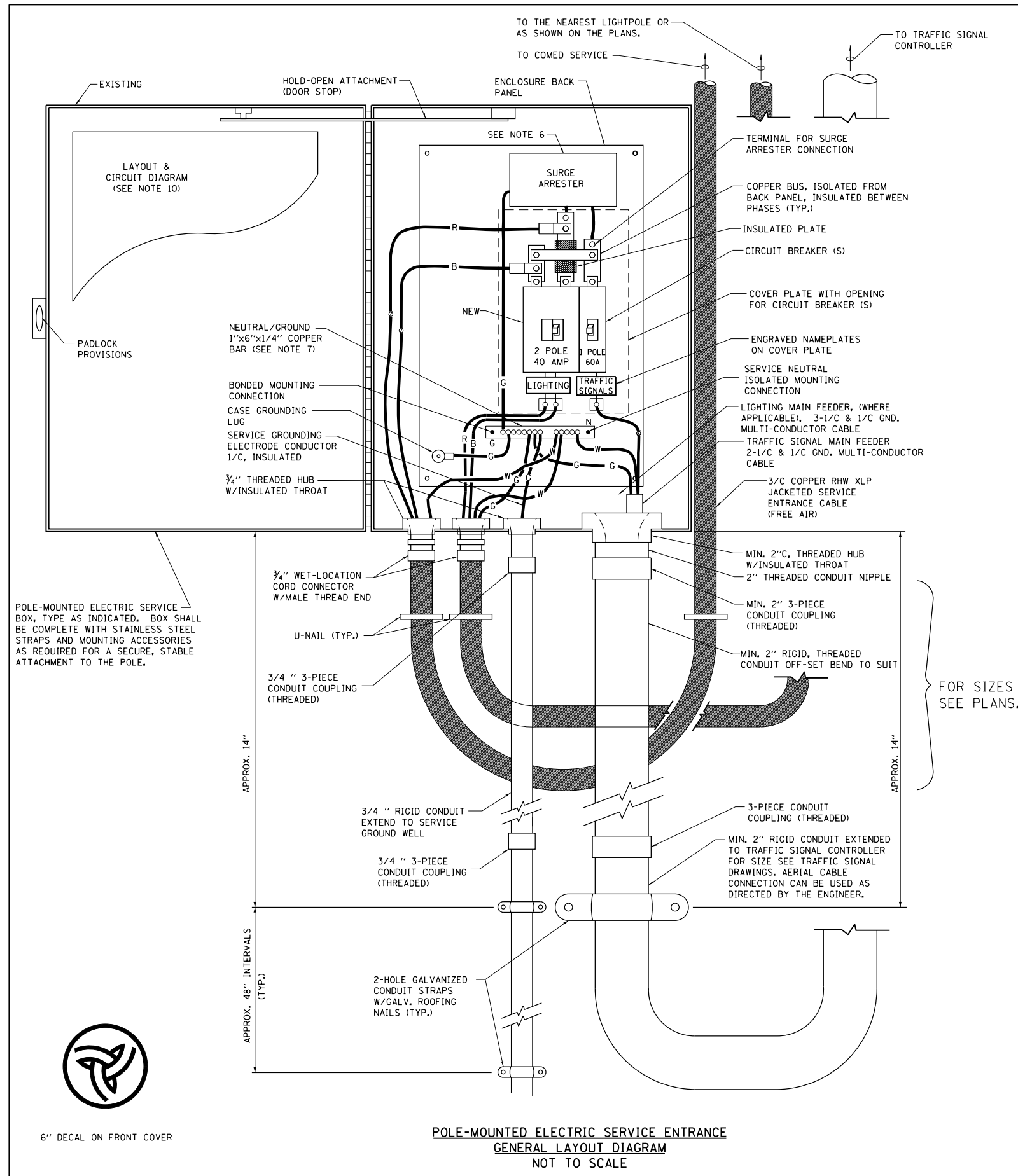
LIGHT POLE WIRING DETAIL
NOT TO SCALE

FILE NAME =	USER NAME = Bilgromiso	DESIGNED - MP	REVISED -
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	PLOT SCALE = 100.0000' / 1in.	DATE - 01/14/10	REVISED -
	PLOT DATE = 3/22/2019		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

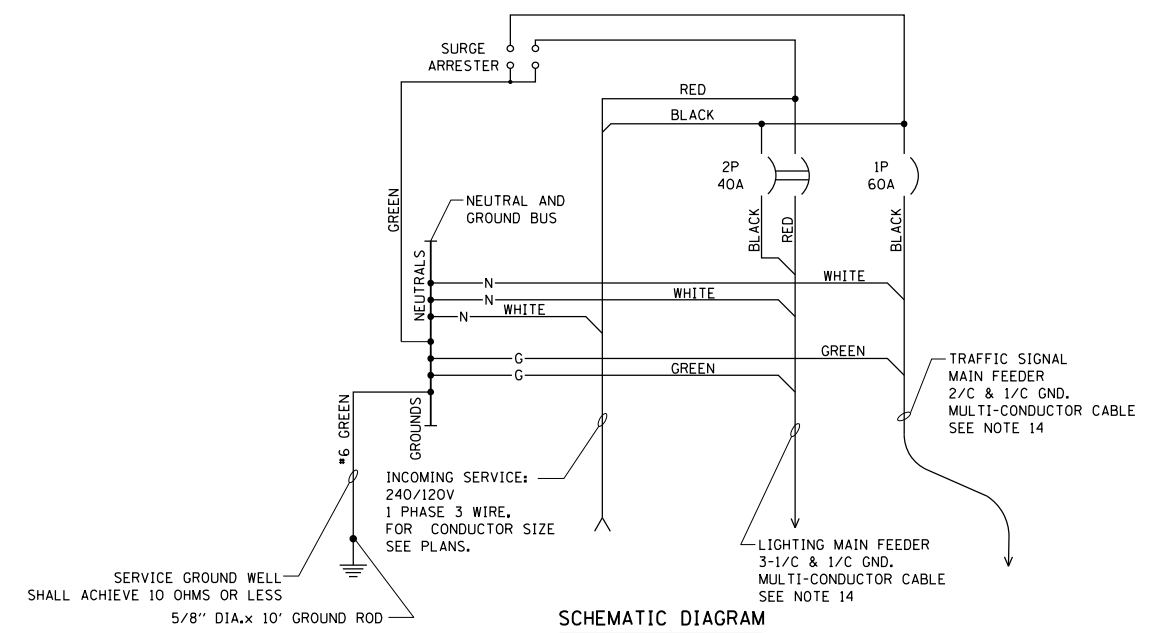
TEMPORARY LIGHTING AND TRAFFIC SIGNALS FOR SINGLE LANE STAGING			
SCALE: NONE	SHEET NO. 2 OF 3 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	120N-4	MCHENRY	126	113
BE-805		CONTRACT NO. 62C06		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

- ELECTRIC SERVICE SHALL BE OF THE VOLTAGE INDICATED OR DESIGNATED BY THE ENGINEER, AND SERVICE DROP CABLE SHALL BE COMPATIBLE WITH THE SERVICE ACCORDINGLY. SOME INSTALLATIONS MAY CALL FOR SERVICE ENTRANCE EQUIPMENT SUITABLE FOR 3-WIRE SERVICE EVEN THOUGH INITIALLY WIRED FOR 2-WIRE SERVICE.
- THE POLE-MOUNTED ELECTRIC SERVICE BOX SHALL BE CONFIGURED AND FULLY EQUIPPED FOR 240/120V 3W SERVICE, COMPLETE WITH LIGHTING MAIN BREAKER AND TRAFFIC SIGNALS MAIN BREAKER AS REQUIRED.
- THE ELECTRIC SERVICE EQUIPMENT ASSEMBLY SHALL BE UL LISTED AS SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT.
- THE ELECTRIC SERVICE EQUIPMENT ENCLOSURE SHALL BE NEMA 4X STAINLESS STEEL, NOMINALLY 12"W X 16"H X 8"D, WITH A PIANO-HINGED DOOR, STEEL BACK PANEL, FAST-ACTING STAINLESS STEEL ENCLOSURE CLAMPS, PADLOCK PROVISIONS AND DOOR STOP, HOFFMAN CATALOG NO. A-16H1208SS6LP/A-16 P12/A-DSTOPK/C-PMK12, OR APPROVED EQUAL.
- CIRCUIT BREAKERS SHALL BE THERMAL MAGNETIC BOLT-ON TYPE WITH A MINIMUM INTERRUPTING CAPACITY OF 25,000 SYMMETRICAL AMPERES AT 240 VOLTS. THEY SHALL BE LOCKABLE IN THE "OFF" POSITION FOR COMPLIANCE WITH OSHA LOCK-OUT/TAG-OUT REQUIREMENTS. HANDLES SHALL BE TRIP FREE.
- THE SURGE PROTECTOR SHALL BE SUITABLE FOR THE SERVICE VOLTAGE SINGLE PHASE 60HZ AC, WITH A SURGE ENERGY CAPABILITY OF 2160 JOULES OR BETTER AT 8/20 MICRO-SECONDS, RATED -40 TO 60 DEGREES C., WITH LED OPERATING INDICATORS, AND SHALL BE UL LISTED PER UL 1449, CUTLER-HAMMER CMOV230L065XT OR APPROVED EQUAL.
- BUS BARS, CONNECTORS, AND LUGS SHALL BE COPPER, INSULATED AND ISOLATED, AND CONFIGURED TO PREVENT SHORTED CONDITIONS FROM TIGHTENING TERMINATIONS, ETC. THE OVERALL BUS SECTION SHALL BE CONFIGURED BEHIND AN INSULATING BARRIER SHIELD WHICH IS REMOVABLE FOR ACCESS TO CONNECTIONS, OR THE ASSEMBLY SHALL BE A MANUFACTURED SPECIALTY PANELBOARD, CUTLER-HAMMER PRL2A OR APPROVED EQUAL.
- THE COMBINATION GROUND AND NEUTRAL BAR SHALL BE CONFIGURED WITH SEPARATE GROUND AND NEUTRAL SECTIONS AND SPARE TERMINALS AS INDICATED. THE HEADS OF GROUND SCREWS SHALL BE PAINTED GREEN. THE HEADS OF NEUTRAL SCREWS SHALL BE PAINTED WHITE. THE SERVICE NEUTRAL AND SERVICE GROUNDING ELECTRODE CONDUCTOR SHALL BE TERMINATED ADJACENT TO EACH OTHER AT THE DIVIDE BETWEEN THE SECTIONS AND WIRING SHALL BE TERMINATED ONLY UPON THE APPROPRIATE SECTION.
- THE WIRING TERMINALS, INCLUDING THE GROUND/NEUTRAL BAR SHALL BE ARRANGED TO PROVIDE ADEQUATE ROOM FOR PERFORMING FIELD TERMINATIONS.
- A PLASTIC LAMINATED LAYOUT AND CIRCUIT DIAGRAM SHALL BE MECHANICALLY SECURED TO THE INTERIOR SIDE OF THE ENCLOSURE DOOR.
- A 2-COLOR ENGRAVED PLASTIC NAMEPLATE, ATTACHED WITH SCREWS, AND ENGRAVED AS INDICATED, SHALL BE PROVIDED FOR EACH MAIN BREAKER.
- LUGS AND CONNECTORS SHALL BE RATED FOR 75 C CONDUCTOR.
- THE EXACT MOUNTING HEIGHT OF THE BOX SHALL BE FIELD DETERMINED TO AVOID OBSTRUCTIONS AND PUBLIC ACCESS. TYPICAL HEIGHT SHALL BE APPROXIMATELY 10 FEET ABOVE GRADE.



**POLE-MOUNTED ELECTRIC SERVICE ENTRANCE
GENERAL LAYOUT DIAGRAM
NOT TO SCALE**

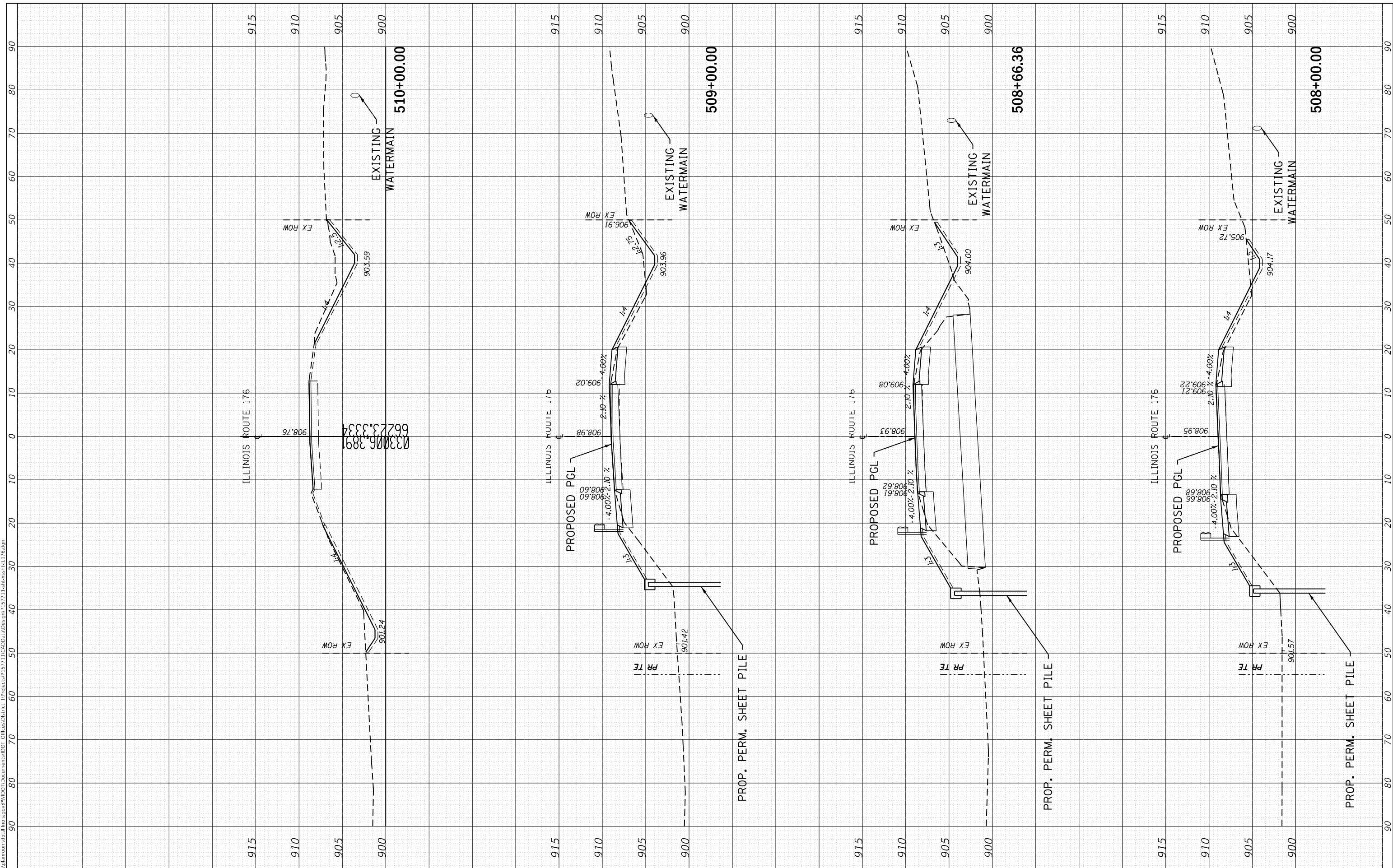
SCHEMATIC DIAGRAM

FILE NAME =	USER NAME = Bilgramis	DESIGNED - MP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY LIGHTING AND TRAFFIC SIGNALS FOR SINGLE LANE STAGING			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\planroom.dot.illinois.gov\PIDOT\Documents\IDOT Offices\District 1\Projects\P15771\DRAWING\Design\DistStd.dgn		CHECKED -	REVISED -		335	120N-4	MCHENRY	126	114			
PLOT SCALE = 100.0000' / in.		DATE - 01/14/10	REVISED -		BE-805		CONTRACT NO. 62C06					
PLOT DATE = 3/22/2019					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
				SCALE: NONE	SHEET NO. 3 OF 3 SHEETS	STA.	TO STA.					

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

ORIGINAL SURVEY NO.	SURVEYED	DATE
	PLOTTED	
	TEMPLATE	
	AREAS CHECKED	

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PLOT DATE: 3/22/2019



USER NAME = bilgramisa	DESIGNED -
	DRAWN -
PLOT SCALE = 20.0000' / in.	CHECKED -
PLOT DATE = 3/22/2019	DATE -

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

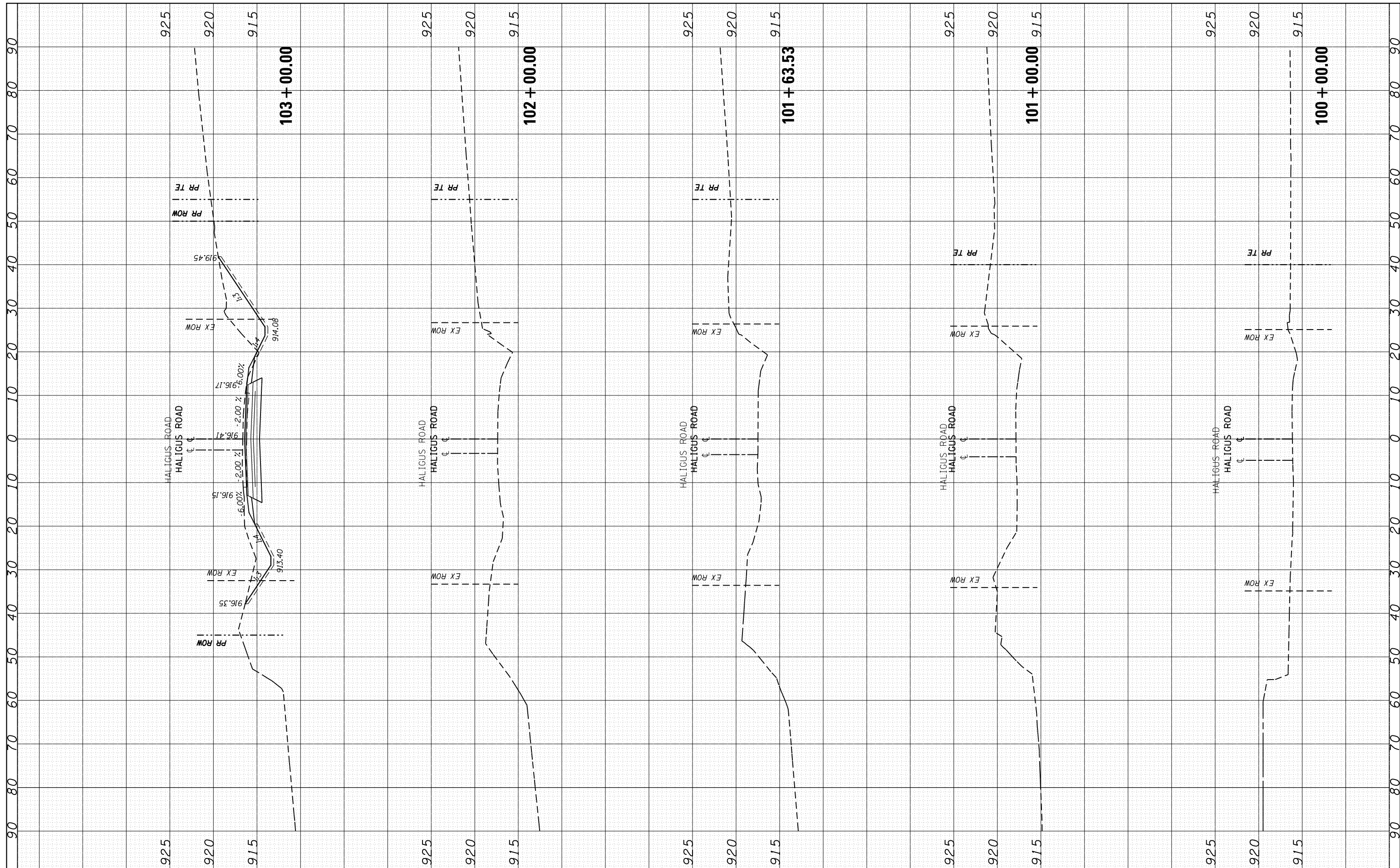
**CROSS SECTIONS
IL 176**

SCALE: SHEET 6 OF 7 SHEETS STA. 508+00.00 TO STA. 510+00.00

F.A.P. RTE. 335	SECTION 120N-4	COUNTY MCHENRY	TOTAL SHEETS 126	SHEET NO. 120
CONTRACT NO. 62C06				
ILLINOIS FED. AID PROJECT				

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

ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
	PLOTTED		
	TEMPLATE		
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 PLOT DATE = 3/22/2019

USER NAME = Bilgromiso
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

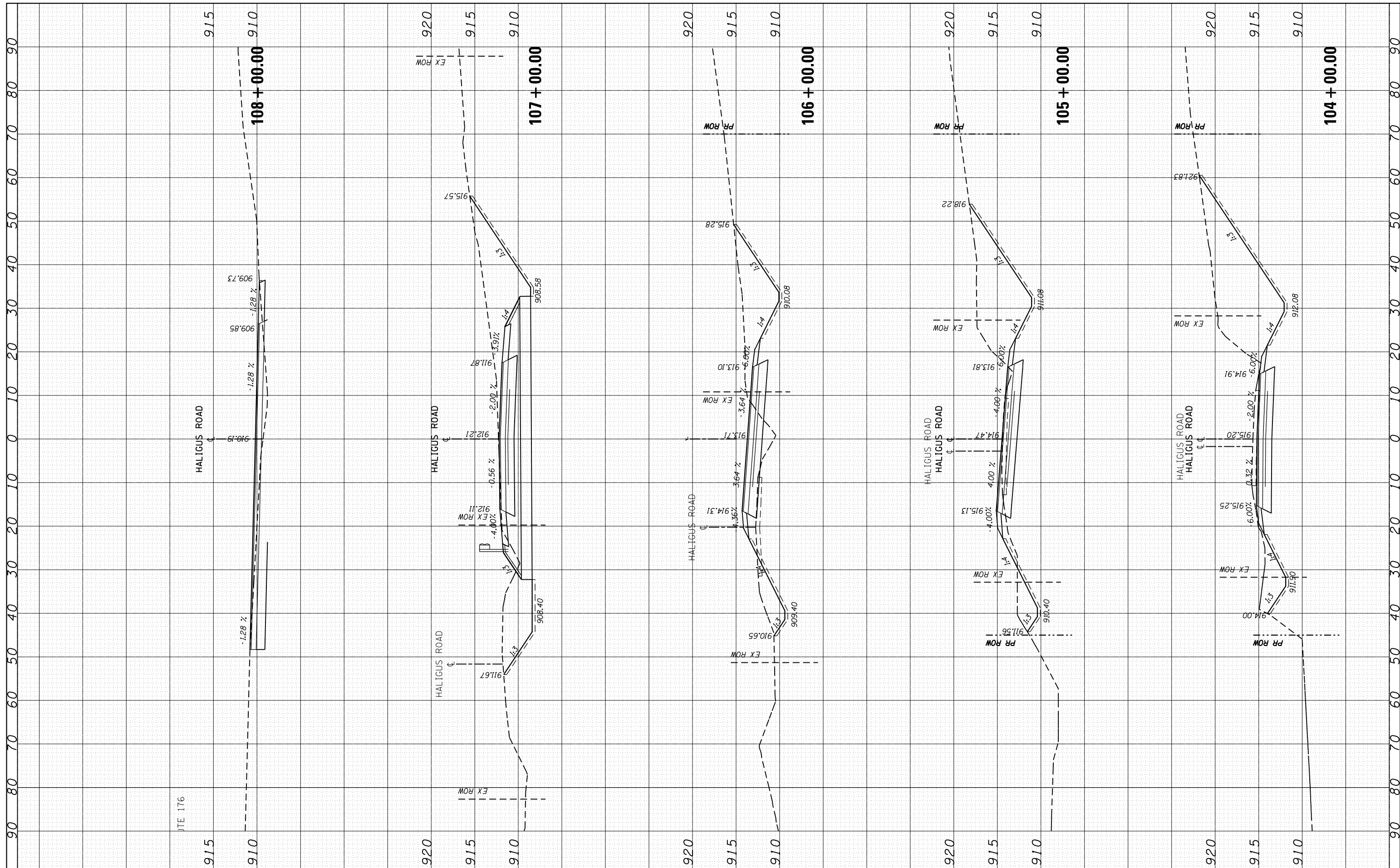
**CROSS SECTIONS
 HALIGUS ROAD**

SCALE: SHEET 1 OF 5 SHEETS STA. 100+00.00 TO STA. 103+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	120N-4	MCHENRY	126	122
CONTRACT NO. 62C06			ILLINOIS FED. AID PROJECT	

FINAL SURVEY NO.	SURVEYED PLOTTED	DATE
NO.	TEMPLATE AREAS CHECKED	
	AREAS CHECKED	

ORIGINAL SURVEY NO.	SURVEYED PLOTTED	DATE
NO.	TEMPLATE AREAS CHECKED	
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

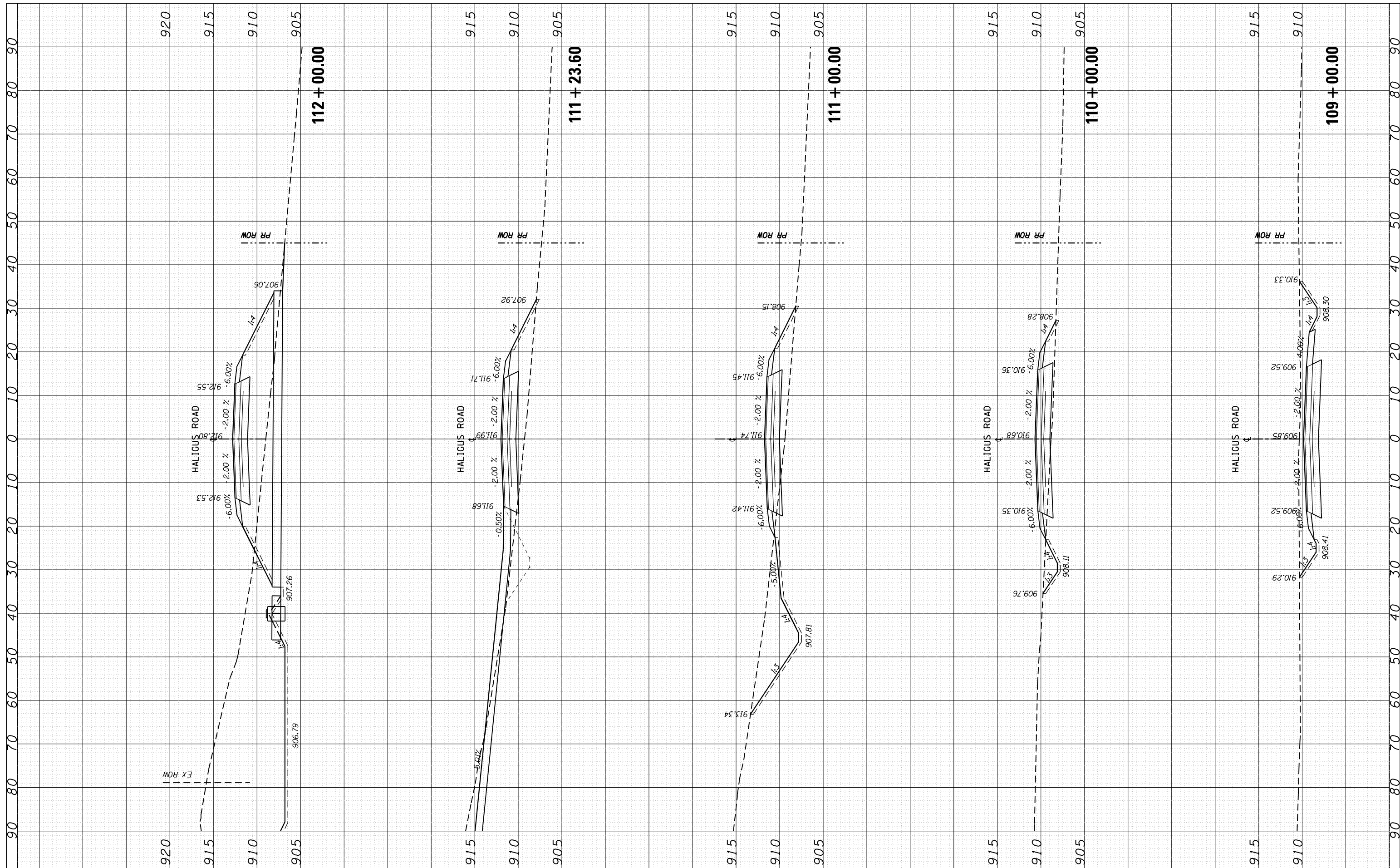
**CROSS SECTIONS
HALIGUS ROAD**

SCALE: SHEET 2 OF 5 SHEETS STA. 104+00.00 TO STA. 108+00.00

F.A.P. RTE. 335	SECTION 120N-4	COUNTY MCHENRY	TOTAL SHEETS 126	SHEET NO. 123
			CONTRACT NO. 62C06	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



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 PLOT SCALE = 20.0000' / in.
 PLOT DATE = 3/22/2019

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 HALIGUS ROAD**

SCALE: SHEET 3 OF 5 SHEETS STA. 109+00.00 TO STA. 112+00.00

F.A.P. RTE. 335	SECTION 120N-4	COUNTY MCHENRY	TOTAL SHEETS 126	SHEET NO. 124
			CONTRACT NO. 62C06	
ILLINOIS FED. AID PROJECT				

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

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



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Default	PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS HALIGUS ROAD	
SCALE:	SHEET 5 OF 5 SHEETS STA. 118+00.00 TO STA. 119+00.00

F.A.P. RTE. 335	SECTION 120N-4	COUNTY MCHENRY	TOTAL SHEETS 126	SHEET NO. 126
CONTRACT NO. 62C06			ILLINOIS FED. AID PROJECT	