

FOR INDEX OF SHEETS, SEE SHEET NO. 3

PROJECT LOCATED IN THE VILLAGE OF LAKEWOOD AND CRYSTAL LAKE IN McHENRY COUNTY

TRAFFIC DATA

ADT:
 IL RTE. 47 (NORTH) = 18,700 (2014) 25,000 (2040)
 IL RTE. 47 (SOUTH) = 18,400 (2014) 21,000 (2040)
 IL RTE. 176 (EAST) = 10,600 (2014) 16,000 (2040)
 IL RTE. 176 (WEST) = 9,700 (2014) 12,000 (2040)
 PLEASANT VALLEY ROAD = 1,050 (2014) 3,000 (2040)
 SWANSON ROAD = 105 (2014) 1,000 (2040)
 CONNECTOR ROAD = 1,050 (2014) 3,000 (2040)

DESIGN SPEED

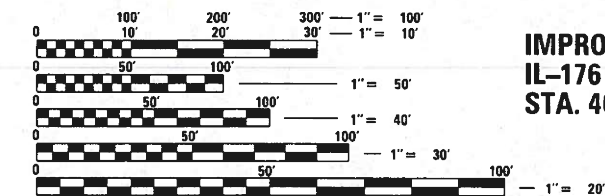
IL RTE. 47 = 60 MPH
 IL RTE. 176 (EAST) = 60 MPH
 IL RTE. 176 (WEST) = 60 MPH
 PLEASANT VALLEY ROAD = 45 MPH
 SWANSON ROAD = 30 MPH
 CONNECTOR ROAD = 30 MPH

POSTED SPEED

IL RTE. 47 = 55 MPH
 IL RTE. 176 (EAST) = 55 MPH
 IL RTE. 176 (WEST) = 55 MPH
 PLEASANT VALLEY ROAD = 40 MPH
 SWANSON ROAD = 30 MPH
 CONNECTOR ROAD = 30 MPH

DESIGN DESIGNATION

IL RTE. 47 (NORTH) 1,835(40) OTHER PRINCIPAL ARTERIAL (FD-20)
 IL RTE. 47 (SOUTH) 1,775(40) OTHER PRINCIPAL ARTERIAL (FD-20)
 IL RTE. 176 (EAST) 1,245(40) OTHER PRINCIPAL ARTERIAL (FD-20)
 IL RTE. 176 (WEST) 1,070(40) OTHER PRINCIPAL ARTERIAL (FD-20)
 PLEASANT VALLEY ROAD 240(40) LOCAL ROAD OR STREET (FD-20)
 SWANSON ROAD 20(40) LOCAL ROAD OR STREET (FD-20)
 CONNECTOR ROAD 240(40) LOCAL ROAD OR STREET (FD-20)



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

MEADE ELECTRIC CO. DISTRICT ONE ELECTRICAL
 MAINTENANCE CONTRACTOR LOCATES IDOT ELECTRICAL EQUIPMENT AND UNDERGROUND CABLES 773-287-7672

PROJECT ENGINEER: FIRAS UDDIN (847)705-4552
 PROJECT MANAGER: MATTHEW ROTHENBERG, P.E. (847)705-4230
 CONTRACT NO.: 62B43

IMPROVEMENT LIMIT - IL-176 W
 STA. 404 + 20.04

IMPROVEMENT LIMIT - SWANSON
 STA. 502 + 16.66

CULVERT REPLACEMENT
 STA. 627 + 82.00
 EX STRUCTURE NO. 056-0246
 PR STRUCTURE NO. 056-0310

IMPROVEMENT LIMIT - PVRD
 STA. 273 + 28.41

BEGIN IMPROVEMENT
 STA. 565 + 80.00

GROSS LENGTH = 9511.63 FT. = 1.801 MILE
 NET LENGTH = 9511.63 FT. = 1.801 MILE

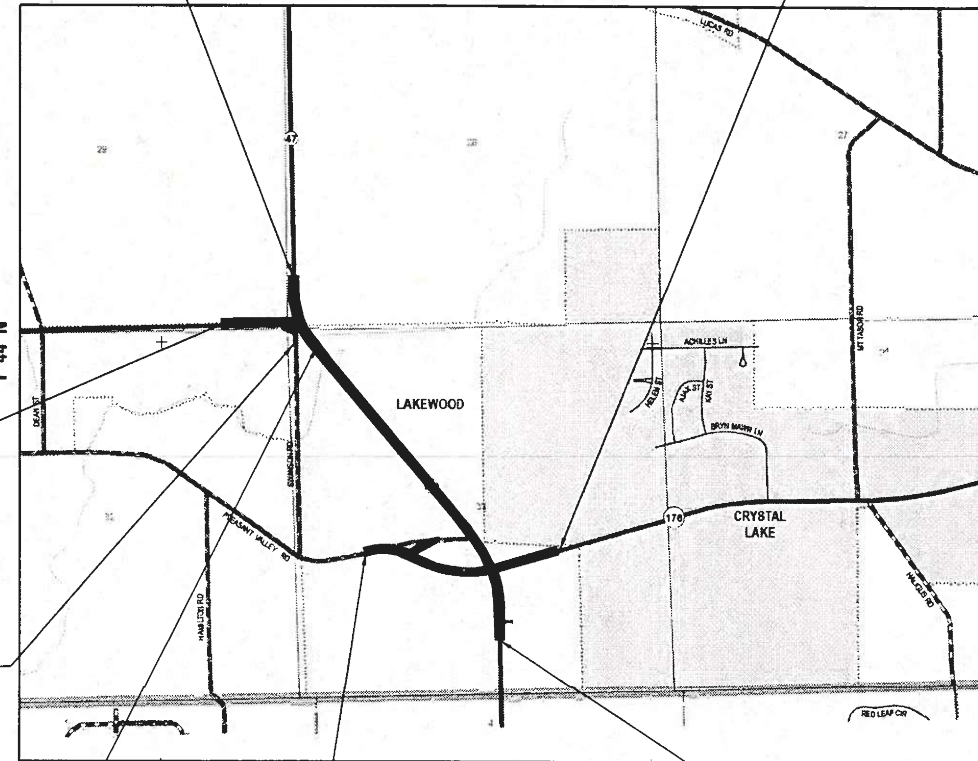
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

**PROPOSED
 HIGHWAY PLANS**

FAP ROUTE 326 (IL ROUTE 47)
 AT IL ROUTE 176 (NORTH AND SOUTH JUNCTION) AND PLEASANT VALLEY ROAD
 SECTION 105-N-2(15)
 FEDERAL PROJECT NO.: NHPP-STP-BJOV (278)
 INTERSECTION RECONSTRUCTION
 McHENRY COUNTY
 C-91-042-16

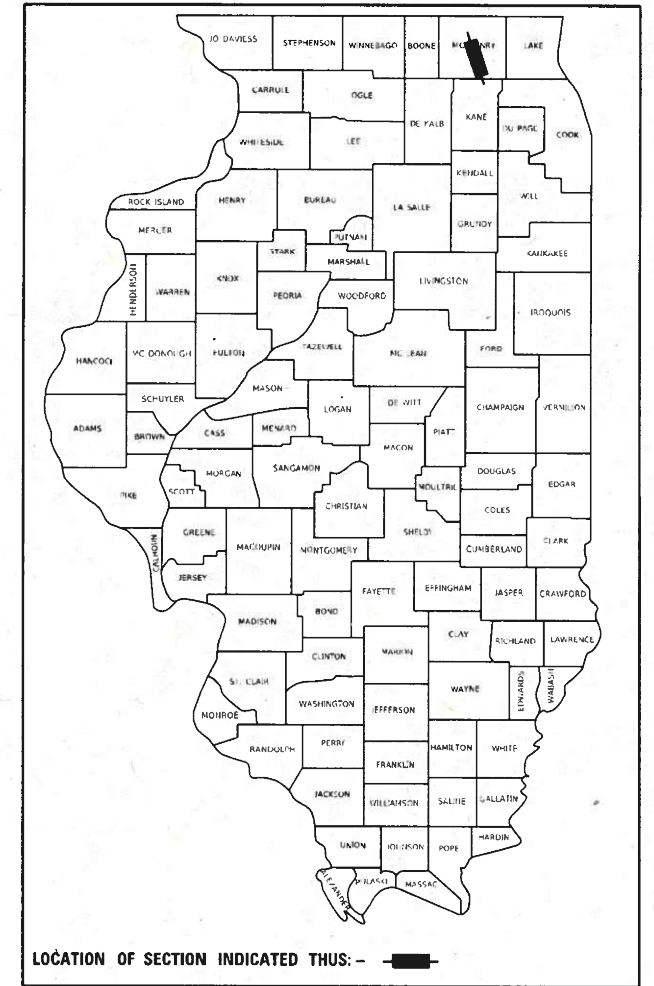
END IMPROVEMENT
 STA. 660 + 91.74

IMPROVEMENT LIMIT - IL-176 E
 STA. 316 + 64.74



F.A.P. RTE. 326	SECTION 105-N-2(15)	COUNTY McHENRY	TOTAL SHEETS 805	SHEET NO. 1
ILLINOIS			CONTRACT NO.: 62B43	
* 803 + 2 = 805 TOTAL SHEETS				

D-91-011-14



SA STRAND ASSOCIATES
 1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200
 IDFP NO. 184-001273

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUBMITTED DECEMBER 13, 2023
Qasr Bino REGIONAL ENGINEER
 February 2, 2024
SEA ENGINEER OF DESIGN AND ENVIRONMENT
 February 2, 2024
Stephen M. Smith DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE DONE ACCORDING TO THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (STANDARD SPECIFICATIONS) ADOPTED JAN. 1, 2022, THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" ADOPTED JAN. 1, 2024, THE DETAILS IN THESE PLANS, AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.
- THE SCALE SHOWN ON THE DRAWINGS APPLIES ONLY TO FULL SIZE PLANS AND NOT TO THE REDUCED SIZE PLANS. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED TO BE THE LATEST STANDARDS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL THE DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- THE LOCATION AND ELEVATION OF THE VARIOUS UNDERGROUND UTILITIES AS SHOWN ON THE DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL USE SPECIAL CARE WHEN CONDUCTING CONSTRUCTION OPERATIONS NEAR THEM AND IS RESPONSIBLE FOR ANY DAMAGE CAUSED. THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK.
- THE CONTRACTOR SHALL NOTIFY THE AGENCIES AND UTILITIES AT LEAST 10 DAYS PRIOR TO ANY CONSTRUCTION IN THE AREA AND SHALL COMPLY WITH ALL RESTRICTIONS FOR EQUIPMENT MOVEMENTS AND CLEARANCES IN REGARDS TO THEIR FACILITIES.
- 48 HOURS PRIOR TO THE START OF ANY EXCAVATION, THE CONTRACTOR SHALL CALL J.U.L.I.E., MCHENRY COUNTY, AND DORR TOWNSHIP FOR VERIFICATION OF ALL UTILITY LOCATIONS IN THE FIELD.
- THE RESIDENT ENGINEER SHALL CONTACT THE ARTERIAL TRAFFIC CONTROL SUPERVISOR, KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF TEMPORARY TRAFFIC CONTROL DEVICES.
- THE CONTRACTOR SHALL COORDINATE WITH ALL ABOVE AND UNDERGROUND UTILITY COMPANIES IF UTILITIES NEED TO BE RELOCATED.
- THE CONTRACTOR SHALL ENSURE ALL PERMITS HAVE BEEN OBTAINED PRIOR TO COMMENCEMENT OF WORK.
- THE CONTRACTOR SHALL ENSURE THAT POSITIVE DRAINAGE IS MAINTAINED AT ALL TIMES DURING AND AFTER THE CONSTRUCTION.
- TEN FOOT TRANSITIONS SHALL BE USED TO TRANSITION PROPOSED CURB AND GUTTER AND MEDIAN ITEMS TO EXISTING CURBS AND GUTTERS AND MEDIANS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE APPLICABLE TYPE OF COMBINATION CONCRETE CURB AND GUTTER.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION OF EXISTING PLANT MATERIAL FOR WHICH THE CONTRACT DOES NOT PROVIDE REMOVAL. THE PROTECTION OF EXISTING PLANT MATERIAL AND THE REPAIR OR REPLACEMENT OF EXISTING PLANT MATERIAL DAMAGED BY THE CONTRACTOR SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 201 OF THE STANDARD SPECIFICATIONS.
- ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- THE FRAMES AND LIDS OF EXISTING UTILITY OR DRAINAGE STRUCTURES WITHIN THE LIMITS OF THIS IMPROVEMENT PROJECT THAT ARE NOT NOTED ON THE PLANS FOR REPLACEMENT OR RECONSTRUCTION SHALL BE ADJUSTED TO MATCH THE PROPOSED ROADWAY GRADES. THE FRAMES AND LIDS OF PRIVATE UTILITY STRUCTURES SHALL BE ADJUSTED BY THEIR RESPECTIVE OWNERS AND ARE NOT PART OF THIS CONTRACT. HOWEVER, THE CONTRACTOR SHALL COORDINATE WITH PRIVATE UTILITY OWNERS TO HAVE ADJUSTMENTS PERFORMED.
- WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PRIVATE OR PUBLIC DRAINS, SEWERS, OR CATCH BASINS. CONTRACTOR SHALL PROVIDE FACILITIES TO TAKE IN ALL STORM WATER WHICH WILL BE RECEIVED BY THESE DRAINS AND SEWERS AND DISCHARGE SAME. CONTRACTOR SHALL PROVIDE AND MAINTAIN AN EFFICIENT PUMPING PLANT, IF NECESSARY, AND A TEMPORARY OUTLET SHALL BE PREPARED AT ALL TIME TO DISPOSE OF THE WATER RECEIVED FROM THESE TEMPORARY CONNECTIONS UNTIL SUCH TIME AS THE PERMANENT ROADSIDE DRAINAGE SYSTEM IS BUILT AND IN SERVICE. THIS WORK IS INCLUDED IN THE CONTRACT COST
- PROPOSED END SECTIONS SHALL BE SLOPED TO MATCH THE PROPOSED CULVERTS AND STORM SEWER PIPE SLOPES. STORM SEWER PIPE LENGTHS IN SCHEDULES INCLUDE THE LENGTH OF END SECTION WHERE APPLICABLE. DRAINAGE STRUCTURE GRADES SHALL BE VERIFIED IN THE FIELD PRIOR TO INSTALLATION OF DRAINAGE ITEMS. DRAINAGE STRUCTURES MAY REQUIRE REVISIONS TO MEET EXISTING FIELD CONDITIONS. ANY ADJUSTMENT SHALL BE AS DIRECTED BY THE ENGINEER. PROPOSED RIM ELEVATIONS SHOWN FOR DRAINAGE STRUCTURES IN THE GUTTER REFERENCE THE PROPOSED EDGE OF PAVEMENT ELEVATION.
- UNLESS OTHERWISE NOTED, LOCATIONS SHOWN ON THE PLANS ARE TO THE CENTER OF GUTTER FOR GRATES IN THE CURB AND GUTTER AND TO THE CENTER OF THE GRATE/LID FOR ALL OTHER STRUCTURES. FLAT TOPS AND CONES ARE TO BE TURNED SO THAT THE FRAME IS CLOSEST TO THE CENTER LINE OF THE ROAD, UNLESS OTHERWISE NOTED ON THE STRUCTURE IN THE PLANS. ALL FLAT TOPS AND CONES ARE ASSUMED TO BE ECCENTRIC.

- ALL SUBSURFACE DRAINS AND/OR FIELD TILES ENCOUNTERED IN THE ROADWAY EXCAVATION SHALL BE REMOVED AND CONSIDERED TO BE INCLUDED IN THE COST OF EARTH EXCAVATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CAPPING THE EXISTING SUBSURFACE DRAINS OR CONNECTING TO THE PROPOSED DITCHES AT THE LOCATIONS SHOWN IN THE PLANS OR AS DIRECTED BY THE OWNER.
- PIPE UNDERDRAINS SHALL BE INSTALLED ACCORDING TO SECTION 601 OF THE STANDARD SPECIFICATIONS AND STANDARD DRAWING 601001-05. TOP OF PIPE UNDERDRAINS SHALL BE PLACED MINIMUM 6" BELOW THE AGGREGATE SUBGRADE IMPROVEMENT LAYER. THE COST OF MAKING PIPE UNDERDRAINS CONNECTIONS TO DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF THE PIPE UNDERDRAINS. UNDERDRAIN MINIMUM SLOPES SHALL BE 0.20% AND HAVE BEEN IDENTIFIED ON THE DRAINAGE PLAN AND PROFILE SHEETS. TRANSVERSE UNDERDRAINS SHALL MATCH THE CROSS SLOPE OF THE ROADWAY SURFACE.
- THE PROPOSED DRAINAGE STRUCTURES AND PIPES SHALL BE PROTECTED IMMEDIATELY AFTER THEY ARE CONSTRUCTED UNTIL THE SURFACES THAT DRAIN TO THEM ARE FULLY PAVED OR VEGETATED.
- ALL SIGN RELOCATIONS AND PROPOSED SIGNS SHALL BE PLACED IN THE LOCATION INDICATED IN THE SIGN SCHEDULE IN THE SCHEDULE OF QUANTITIES. ALL SIGNS SHALL BE INSTALLED ACCORDING TO THE MUTCD AND THE ILLINOIS STANDARD SPECIFICATIONS.
- IT IS ASSUMED THAT THE TOP 15" OF THE EXISTING GROUND OUTSIDE THE PAVEMENT SHALL BE EXCAVATED AND RE-SPREAD. QUANTITIES FOR THIS WORK ARE INCLUDED IN TOP SOIL EXCAVATION AND PLACEMENT.
- THE CONTRACTOR SHALL ERECT A TEMPORARY FENCE AROUND ALL TREES WITHIN THE CONSTRUCTION AREA TO ESTABLISH A "TREE 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 VEHICLES DRIVEN OR PARKED WITHIN THE "TREE PROTECTION ZONE". REMOVE PROTECTIVE TEMPORARY FENCE ONLY AFTER ALL CONSTRUCTION WORK HAS BEEN COMPLETED.
- A PROVISIONAL AGGREGATE SUBGRADE IMPROVEMENT QUANTITY OF 660 CUBIC YARDS AND GEOTECHNICAL FABRIC FOR GROUND STABILIZATION 1960 SQUARE YARDS IS INCLUDED IN THE TOTAL QUANTITY TO ACCOUNT FOR SUBGRADE TREATMENT IN AREAS OUTSIDE OF AREAS SHOWN ON THE PLANS. ANY MATERIAL NOT NEEDED DURING THE CONSTRUCTION WILL BE DELETED FROM THE CONTRACT WITH NO EXTRA COMPENSATION TO THE CONTRACTOR.
- THIS PROJECT REQUIRES A US 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 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 .
- BUILDING REMOVAL NO. 1 CONSISTS OF COMPLETE REMOVAL AND DISPOSAL OF A ONE-STORY HOME, INCLUDING ALL ITS CONTENTS, DOWN TO A PLANE 4 FT BELOW EXISTING GRADE.
- BUILDING REMOVAL NO. 2 CONSISTS OF COMPLETE REMOVAL AND DISPOSAL OF A ONE-STORY GARAGE, INCLUDING ALL ITS CONTENTS, DOWN TO A PLANE 4 FT BELOW EXISTING GRADE.
- BUILDING REMOVAL NO. 3 CONSISTS OF COMPLETE REMOVAL AND DISPOSAL OF A ONE-STORY SHED, INCLUDING ALL ITS CONTENTS, DOWN TO A PLANE 4 FT BELOW EXISTING GRADE.
- THE AGGREGATE GRADATION FOR THE AGGREGATE SUBGRADE IMPROVEMENT 12" LOWER LIFT SHALL BE CS 1 OR RR 1.
- BELOW ARE CONTACT DETAILS FOR VARIOUS UTILITIES THAT WILL BE AFFECTED BY THE PROJECT.

AGENCY - CONTACT PERSON, TELEPHONE NO., EMAIL

▲ NICOR - CHARLES PARROTT, 630-388-3319, CPARROTT@SOUTHERNCO.COM
 AT&T TRANSMISSION - RICH MEYERS, 630-215-7567, RCM5@SBCGLOBAL.NET
 AT&T DISTRIBUTION - HECTOR GARCIA, 630-573-5465, HG2929@ATT.COM
 COMED - DANIELLE PETEET, 630-437-2159
 COMCAST - NICK MIHALKA, 847-626-8358,
 NICHOLAS MIHALKA@COMCAST.COM
 KINDER MORGAN - MARK CAVAZOS, 713-420-4363,
 KMENCROACHMENTS@KINDERMORGAN.COM
 EVERSTREAM - JEFIN STEPHEN, 847-707-6829, JSTEPHEN@EVERSTREAM.NET
 MIDWEST FIBER NETWORKS - CORY SCHMUKI, 414-459-3561,
 CSCHMUKI@MIDWESTFIBERNETWORKS.COM

- THE RESIDENT ENGINEER SHALL CONTACT WALTER CZARNY, ARTERIAL TRAFFIC FIELD ENGINEER VIA EMAIL AT WALTER.CZARNY@ILLINOIS.GOV AT LEAST (2) WEEKS PRIOR TO PLACING PERMANENT PAVEMENT MARKINGS.
- BACKFILLING STORM SEWER CONSTRUCTED UNDER THE ROADWAY SPECIFIED UNDER ART. 550.07(b, c) OF THE STANDARD SPECIFICATIONS WILL NOT BE ALLOWED.

- THE DEPARTMENT HAS NOT OBTAINED ANY PERMITS FOR OFFSITE BORROW, WASTE, USE (BWU) AREAS, PRIOR TO WORKING IN BWU AREAS, IF THE CONTRACTOR CHOOSES TO USE ACTIVITIES REQUIRING PERMITS IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROPER PERMITS. IN ADDITION TO THE BORROW REVIEW (BDE 2289) and USE/WASTE REVIEW(BDE 2290) SUBMITTALS, THE CONTRACTOR SHALL SUBMIT AN EROSION AND SEDIMENT CONTROL (ESC) PLAN FOR EVERY BWU SITE TO THE DEPARTMENT FOR ACCEPTANCE. GUIDELINES FOR ACCEPTABLE BWU PRACTICES CAN BE FOUND IN SECTION II.G.1 AND 2 of the SWPPP. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT ESC PLANS 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.
- IF ANY CULTURAL OR ARCHAEOLOGICAL RESOURCES ARE UNCOVERED DURING CONSTRUCTION, PLEASE STOP WORK AND CONTACT THE FOLLOWING PERSON:

JOSEPH M. GALLOY, PHD, RPA
 CULTURAL RESOURCES UNIT MANAGER
 CHIEF ARCHAEOLOGIST & NAGPRA OFFICER
 JOSEPH.GALLOY@ILLINOIS.GOV

COMMITMENTS

- WILDLIFE CROSSINGS UNDER IL 47 ARE RECOMMENDED AND WILL BE FURTHER STUDIED DURING THE FINAL ENGINEERING DESIGN. PROPOSED CROSSING LOCATIONS ARE PRESENTED IN THE ENVIRONMENTAL ASSESSMENT IN TABLE 4-8.
- BIOSWALES WILL BE INSTALLED ALONG THE OUTSIDE DITCHES WHERE FEASIBLE AND PRACTICAL. THEY WILL BE INSTALLED IN LOCATIONS IMMEDIATELY UPSTREAM OF SURFACE WATER RESOURCES, SUCH AS STREAMS AND WETLANDS. OTHER BMPs WILL BE INSTALLED IN THE VEGETATED MEDIANS WHERE APPROPRIATE.
- ACCIDENTAL SPILLS OF HAZARDOUS MATERIALS AND WASTES DURING CONSTRUCTION OR OPERATION OF THE TRANSPORTATION SYSTEM REQUIRE SPECIAL RESPONSE MEASURES. OCCURRENCES WILL BE HANDLED IN ACCORDANCE WITH LOCAL GOVERNMENT RESPONSE PROCEDURES. REFUELING, STORAGE OF FUELS, OR MAINTENANCE OF CONSTRUCTION EQUIPMENT WILL NOT BE ALLOWED WITHIN 100 FEET OF WETLANDS OR WATER BODIES TO AVOID ACCIDENTAL SPILLS IMPACTING THESE RESOURCES.
- IN ORDER TO PROTECT FROM THE POTENTIAL PRESENCE OF THE BLANDINGS TURTLE, EXCLUSIONARY FENCING BETWEEN WETLANDS AND THE CONSTRUCTION LIMITS SHALL BE PLACED TO KEEP TURTLES FROM ENTERING THE CONSTRUCTION AND STAGING AREAS. THE FENCING SHALL BE TRENCHED INTO THE GROUND A MINIMUM OF 4 INCHES AND INSPECTED DAILY FOR TURTLES. FENCING SHOULD BE INSTALLED WITH TURN-AROUNDS AT OPEN ENDS AND AT ANY ACCESS OPENINGS NEEDED IN THE FENCING, IN ORDER TO REDIRECT ANIMALS AWAY FROM OPENINGS. ALL ON-SITE PERSONNEL SHALL BE EDUCATED ON THE BLANDINGS TURTLE VIA INFORMATION FLYER. IDNR MUST BE CONTACTED IMMEDIATELY IF ANY BLANDINGS TURTLES ARE FOUND DURING CONSTRUCTION.
- TREES THREE (3) INCHES IN DIAMETER AT BREST HEIGHT SHALL NOT BE CLEARED FROM APRIL 1ST THROUGH SEPTEMBER 30TH OF ANY GIVEN YEAR.

UTILITY NOTES

- WHEN WORKING IN THE VICINITY OF COMED'S ELECTRIC TRANSMISSION LINES DURING THE INSTALLATION, COMED REQUIRES A MINIMUM OF FIFTEEN (15) FEET WORKING CLEARANCE DISTANCE MUST BE MAINTAINED BETWEEN THE BOOMS, ARMS OR OTHER PARTS THAT CAN BE RAISED ON THE EQUIPMENT UTILIZED BY THE PETITIONER AND/OR ITS CONTRACTOR AND COMED'S EXISTING 138,000 VOLT ELECTRIC TRANSMISSION CONDUCTORS AND A MINIMUM OF TWENTY (20) FEET WORKING CLEARANCE DISTANCE MUST BE MAINTAINED BETWEEN THE BOOMS, ARMS OR OTHER PARTS THAT CAN BE RAISED ON THE EQUIPMENT UTILIZED BY THE PETITIONER AND/OR ITS CONTRACTOR AND COMED'S EXISTING 345,000 VOLT ELECTRIC TRANSMISSION CONDUCTORS.. UNDER NO CIRCUMSTANCES, SHOULD TRUCK BEDS BE RAISED UNDERNEATH COMED TRANSMISSION LINES. IF THE PETITIONER AND/OR ITS CONTRACTOR DETERMINES A LINE OUTAGE WILL BE REQUIRED TO SAFELY WORK WITHIN THE VICINITY OF THE EXISTING OVERHEAD TRANSMISSION FACILITIES A MINIMUM OF A 16-WEEK PRIOR NOTIFICATION WILL BE REQUIRED. THE OUTAGE DATES CANNOT BE GUARANTEED DUE TO SYSTEM CONCERNS AND/OR WEATHER CONDITIONS. HOWEVER, EVERY EFFORT WILL BE MADE TO ACCOMMODATE THE CONTRACTORS NEED DATE. OUTAGES ON THE OVERHEAD TRANSMISSION FACILITIES WILL NOT BE PERMITTED BETWEEN THE MONTHS OF MAY 15 AND SEPTEMBER 15.

MODEL: D:\m\p\1170 SOUTH HOUBOLT ROAD\1170 SOUTH HOUBOLT ROAD\CAD_Sheets\1170 SOUTH HOUBOLT ROAD.dgn

SA STRAND ASSOCIATES
 1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

USER NAME = StevenB	DESIGNED - MAG	REVISED ▲ 2/23/2024
PLOT SCALE = 2,0000 ' / in.	CHECKED - SJG	REVISED -
PLOT DATE = 2/26/2024	DATE - 12/15/2023	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES			
SCALE:	SHEET 1 OF 1 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105-N-2(15)	MCHENRY	803	5
CONTRACT NO. 62B43				
ILLINOIS		FED. AID PROJECT		

▲ REVISED SHEET 2/27/2024

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0003	PLEASANT VALLEY ROADWAY	CULVERT REPLACEMENT S.N. #056-0309 0010	CULVERT REPLACEMENT S.N. #056-0310 0010	CULVERT REPLACEMENT S.N. #056-0311 0010	CULVERT REPLACEMENT S.N. #056-0110 0010	TRAFFIC SIGNALS 0021			STREET LIGHTING 0021	EVP
				80% FED 20% STATE NHPP URBAN	80% FED 20% STATE STP-U URBAN	80% FED 20% STATE NHPP URBAN	80% FED 20% STATE NHPP URBAN	80% FED 20% STATE NHPP URBAN	80% FED 20% STATE NHPP URBAN	IL 47 AT IL 176 WEST	IL 47 AT IL 176 EAST	INTERCONNECT	80% FED 20% STATE NHPP URBAN	80% FED 15% STATE 5% LAKEWOOD HNPP URBAN
+ 28000510	INLET FILTERS	EACH	184	179	5									
28001000	AGGREGATE (EROSION CONTROL)	TON	449	389	60									
+ 28001100	TEMPORARY EROSION CONTROL BLANKET	SQ YD	129,202	117,201	12,001									
28100107	STONE RIPRAP, CLASS A4	SQ YD	1,256	707	256	54	81	92	66					
28100109	STONE RIPRAP, CLASS A5	SQ YD	803	803										
28200200	FILTER FABRIC	SQ YD	22,882	21,320	1,269	54	81	92	66					
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	32,659	32,659										
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	154,803	141,098	13,705									
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	33,902	33,902										
31101300	SUBBASE GRANULAR MATERIAL, TYPE B 5"	SQ YD	106	106										
31102000	SUBBASE GRANULAR MATERIAL, TYPE C	CU YD	728	728										
35101800	AGGREGATE BASE COURSE, TYPE B 6"	SQ YD	15,421	15,421										
35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SQ YD	2,632	2,416	216									
35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SQ YD	974	974										
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	273,101	254,809	18,292									
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	45,491	41,134	4,357									
40600370	LONGITUDINAL JOINT SEALANT	FOOT	62,686	61,764	922									

+ INDICATES SPECIALTY ITEM



REVISED SHEET 2/27/2024

MODEL: D:\p\h\it... FILE NAME: S:\Q\16300-0399\16300-0399\Misc\CAD_Sheets\16300-0399-500.dgn



USER NAME = JackD	DESIGNED - MAG	REVISED -
DRAWN - DJW	REVISIONS -	
PLOT SCALE = 2.0000' / in.	CHECKED - SJG	REVISED -
PLOT DATE = 12/19/2023	DATE - 12/15/2023	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET 3 OF 27 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105-N-2(15)	MCHENRY	803	8
CONTRACT NO. 62B43			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0003	PLEASANT VALLEY ROADWAY	CULVERT REPLACEMENT S.N. #056-0309 0010	CULVERT REPLACEMENT S.N. #056-0310 0010	CULVERT REPLACEMENT S.N. #056-0311 0010	CULVERT REPLACEMENT S.N. #056-0110 0010	TRAFFIC SIGNALS 0021			STREET LIGHTING 0021	EVP
				80% FED 20% STATE NHPP URBAN	80% FED 20% STATE STP-U URBAN	80% FED 20% STATE NHPP URBAN	80% FED 20% STATE NHPP URBAN	80% FED 20% STATE NHPP URBAN	80% FED 20% STATE NHPP URBAN	IL 47 AT IL 176 WEST	IL 47 AT IL 176 EAST	INTERCONNECT	80% FED 20% STATE NHPP URBAN	80% FED 15% STATE 5% LAKEWOOD HNPP URBAN
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	102	90	12									
40603085	HOT-MIX ASPHALT BINDER COURSE - IL-19,0,N70	TON	35	35	+									
40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	2,983	2,983										
40701821	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 7"	SQ YD	10,502	1,424	9,078									
40701881	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 10"	SQ YD	23,416	23,416										
40701891	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 10 1/2"	SQ YD	62,200	62,200										
42001300	PROTECTIVE COAT	SQ YD	10,711	9,925	786									
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	64,416	64,416										
42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	1,476	1,476										
42400410	PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH	SQ FT	568	568										
42400800	DETECTABLE WARNINGS	SQ FT	320	320										
44000100	PAVEMENT REMOVAL	SQ YD	84,562	80,894	3,668									
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	10,378	10,378										
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	7,031	7,031										
44003100	MEDIAN REMOVAL	SQ FT	24,254	24,254										

+ INDICATES SPECIALTY ITEM

REVISED SHEET 2/27/2024

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1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

USER NAME = JackD	DESIGNED - MAG	REVISED -
DRAWN - DJW	REVISIONS -	
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE:	SHEET 4 OF 27 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105-N-2(15)	MCHENRY	803	9
			CONTRACT NO. 62B43	
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0003	PLEASANT VALLEY ROADWAY	CULVERT REPLACEMENT S.N. #056-0309 0010	CULVERT REPLACEMENT S.N. #056-0310 0010	CULVERT REPLACEMENT S.N. #056-0311 0010	CULVERT REPLACEMENT S.N. #056-0110 0010	TRAFFIC SIGNALS 0021			STREET LIGHTING 0021	EVP
				80% FED 20% STATE NHPP URBAN	80% FED 20% STATE STP-U URBAN	80% FED 20% STATE NHPP URBAN	80% FED 20% STATE NHPP URBAN	80% FED 20% STATE NHPP URBAN	80% FED 20% STATE NHPP URBAN	IL 47 AT IL 176 WEST	IL 47 AT IL 176 EAST	INTERCONNECT	80% FED 20% STATE NHPP URBAN	80% FED 15% STATE 5% LAKEWOOD HNPP URBAN
50100700	REMOVAL OF EXISTING STRUCTURES NO. 5	EACH	1						1					
50100800	REMOVAL OF EXISTING STRUCTURES NO. 6	EACH	1	1										
50100900	REMOVAL OF EXISTING STRUCTURES NO. 7	EACH	1	1										
50105220	PIPE CULVERT REMOVAL	FOOT	2,895	2,685	210									
50200100	STRUCTURE EXCAVATION	CU YD	5,298	1,591		684	2,597	426						
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	1,174	204		165	718	87						
50201101	COFFERDAM (TYPE 1) (LOCATION - 1)	EACH	1						1					
50201102	COFFERDAM (TYPE 1) (LOCATION - 2)	EACH	1						1					
50300225	CONCRETE STRUCTURES	CU YD	242	190	△		52							
50500505	STUD SHEAR CONNECTORS	EACH	741	741										
50800105	REINFORCEMENT BARS	POUND	318,470	0		0	296,360	△	22,110					
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	21,200	19,140			1,210	850						
50800515	BAR SPLICERS	EACH	232				172		60					
50901760	PIPE HANDRAIL	FOOT	73	73										
51500100	NAME PLATES	EACH	6	2		1	1	1	1					

+ INDICATES SPECIALTY ITEM

△ REVISED SHEET 2/27/2024

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1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE:	SHEET 6 OF 27 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105-N-2(15)	MCHENRY	803	11
CONTRACT NO. 62B43			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0003	PLEASANT VALLEY ROADWAY	CULVERT REPLACEMENT S.N. #056-0309 0010	CULVERT REPLACEMENT S.N. #056-0310 0010	CULVERT REPLACEMENT S.N. #056-0311 0010	CULVERT REPLACEMENT S.N. #056-0110 0010	TRAFFIC SIGNALS 0021			STREET LIGHTING 0021	EVP
				80% FED 20% STATE NHPP	80% FED 20% STATE STP-U	80% FED 20% STATE NHPP	80% FED 20% STATE NHPP	80% FED 20% STATE NHPP	80% FED 20% STATE NHPP	IL 47 AT IL 176 WEST	IL 47 AT IL 176 EAST	INTERCONNECT	80% FED 20% STATE NHPP	80% FED 15% STATE 5% LAKEWOOD HNPP
				URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN
52200010	TEMPORARY SHEET PILING	SQ FT	4,169	0	1			2,369	1,800					
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	821	468		353								
52200100	FURNISHING SOLDIER PILES (HP SECTION)	FOOT	2,724	2,724										
52200150	DRIVING SOLDIER PILES	FOOT	2,225	2,225										
52200250	UNTREATED TIMBER LAGGING	SQ FT	3,981	3,981										
52200600	GEOTEXTILE RETAINING WALL	SQ FT	71	21	1				50					
52200700	PRECAST MODULAR RETAINING WALL	SQ FT	790	790										
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2	2										
54001002	BOX CULVERT END SECTIONS, CULVERT NO. 2	EACH	2			2								
54001003	BOX CULVERT END SECTIONS, CULVERT NO. 3	EACH	2					2						
54001004	BOX CULVERT END SECTIONS, CULVERT NO. 4	EACH	2	2										
54001005	BOX CULVERT END SECTIONS, CULVERT NO. 5	EACH	1	1										
54003000	CONCRETE BOX CULVERTS	CU YD	1,194.0				1,069.3	6.2	118.5	1				
54010303	PRECAST CONCRETE BOX CULVERTS 3' X 3'	FOOT	36	36										
54010403	PRECAST CONCRETE BOX CULVERTS 4' X 3'	FOOT	140	140										

+ INDICATES SPECIALTY ITEM

1 REVISED SHEET 2/27/2024

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET 7 OF 27 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105-N-2(15)	MCHENRY	803	12
CONTRACT NO. 62B43			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0003	PLEASANT VALLEY ROADWAY	CULVERT REPLACEMENT S.N. #056-0309 0010	CULVERT REPLACEMENT S.N. #056-0310 0010	CULVERT REPLACEMENT S.N. #056-0311 0010	CULVERT REPLACEMENT S.N. #056-0110 0010	TRAFFIC SIGNALS 0021			STREET LIGHTING 0021	EVP
				80% FED 20% STATE NHPP URBAN	80% FED 20% STATE STP-U URBAN	80% FED 20% STATE NHPP URBAN	80% FED 20% STATE NHPP URBAN	80% FED 20% STATE NHPP URBAN	80% FED 20% STATE NHPP URBAN	IL 47 AT IL 176 WEST	IL 47 AT IL 176 EAST	INTERCONNECT	80% FED 20% STATE NHPP URBAN	80% FED 15% STATE 5% LAKEWOOD HNPP URBAN
54010806	PRECAST CONCRETE BOX CULVERTS 8' X 6'	FOOT	307	1		158		149	1					
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	80	77	3									
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	7	6	1									
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	27	27										
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	75	62	13									
54213675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	EACH	2	2										
54213693	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 48"	EACH	2	2										
54214512	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 27"	EACH	4		4									
54214515	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 30"	EACH	4	2	2									
54214521	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 36"	EACH	2	2										
54214539	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 54"	EACH	2	2										
5422A018	PIPE CULVERTS, CLASS A, TYPE 2 18" (TEMPORARY)	FOOT	127	127										
5422A024	PIPE CULVERTS, CLASS A, TYPE 2 24" (TEMPORARY)	FOOT	36	36										
5422A030	PIPE CULVERTS, CLASS A, TYPE 2 30" (TEMPORARY)	FOOT	25	25										
5422C012	PIPE CULVERTS, CLASS C, TYPE 2 12" (TEMPORARY)	FOOT	29	29										

+ INDICATES SPECIALTY ITEM

1 REVISED SHEET 2/27/2024

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1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

USER NAME = JackD	DESIGNED - MAG	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES	
SCALE:	SHEET 8 OF 27 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105-N-2(15)	MCHENRY	803	13
			CONTRACT NO. 62B43	
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0003	PLEASANT VALLEY ROADWAY	CULVERT REPLACEMENT S.N. #056-0309 0010	CULVERT REPLACEMENT S.N. #056-0310 0010	CULVERT REPLACEMENT S.N. #056-0311 0010	CULVERT REPLACEMENT S.N. #056-0110 0010	TRAFFIC SIGNALS 0021			STREET LIGHTING 0021	EVP
				80% FED 20% STATE NHPP URBAN	80% FED 20% STATE STP-U URBAN	80% FED 20% STATE NHPP URBAN	80% FED 20% STATE NHPP URBAN	80% FED 20% STATE NHPP URBAN	80% FED 20% STATE NHPP URBAN	IL 47 AT IL 176 WEST	IL 47 AT IL 176 EAST	INTERCONNECT	80% FED 20% STATE NHPP URBAN	80% FED 15% STATE 5% LAKEWOOD HNPP URBAN
55100900	STORM SEWER REMOVAL 18"	FOOT	63	63										
X2090212	SAND BACKFILL	CU YD	2,196	2,108	88									
58700300	CONCRETE SEALER	SQ FT	5,978	5,978										
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	945	513		204	35	193						
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	12	12										
60108100	PIPE UNDERDRAINS 4" (SPECIAL)	FOOT	27	27										
60108106	PIPE UNDERDRAINS, TYPE 1, 6"	FOOT	2,216	1,817	399									
60108200	PIPE UNDERDRAINS 6" (SPECIAL)	FOOT	1,769	1,633	136									
60108204	PIPE UNDERDRAINS, TYPE 2, 4"	FOOT	37,251	37,251										
60108208	PIPE UNDERDRAINS, TYPE 2, 8"	FOOT	256	256										
60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	11	10	1									
60200805	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	3	3										
60201105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11 FRAME AND GRATE	EACH	2	2										
60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	67	65	2									
60203805	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1	1										

+ INDICATES SPECIALTY ITEM

REVISD SHEET 2/27/2024

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET 11 OF 27 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105-N-2(15)	MCHENRY	803	16
CONTRACT NO. 62B43			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0003	PLEASANT VALLEY ROADWAY	CULVERT REPLACEMENT S.N. #056-0309 0010	CULVERT REPLACEMENT S.N. #056-0310 0010	CULVERT REPLACEMENT S.N. #056-0311 0010	CULVERT REPLACEMENT S.N. #056-0110 0010	TRAFFIC SIGNALS 0021			STREET LIGHTING 0021	EVP
				80% FED 20% STATE NHPP URBAN	80% FED 20% STATE STP-U URBAN	80% FED 20% STATE NHPP URBAN	80% FED 20% STATE NHPP URBAN	80% FED 20% STATE NHPP URBAN	80% FED 20% STATE NHPP URBAN	IL 47 AT IL 176 WEST	IL 47 AT IL 176 EAST	INTERCONNECT	80% FED 20% STATE NHPP URBAN	80% FED 15% STATE 5% LAKEWOOD HNPP URBAN
60205040	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	2	2										
60207605	CATCH BASINS, TYPE C, TYPE 8 GRATE	EACH	20	19	1									
60207905	CATCH BASINS, TYPE C, TYPE 11 FRAME AND GRATE	EACH	3	2	1									
60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	EACH	87	85	2									
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	3	2	1									
60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	1	1										
60500040	REMOVING MANHOLES	EACH	4	4										
60500050	REMOVING CATCH BASINS	EACH	5	5										
60500060	REMOVING INLETS	EACH	17	17										
60600605	CONCRETE CURB, TYPE B	FOOT	91	91										
60602800	CONCRETE GUTTER, TYPE B	FOOT	705	705										
60608562	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.12	FOOT	144	144										
60608582	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.24	FOOT	29,520	28,641	879									
60608600	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.06	FOOT	663	663										
60610400	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24	FOOT	922	922										
60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SQ FT	4,920	4,920										

+ INDICATES SPECIALTY ITEM



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET 12 OF 27 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105-N-2(15)	MCHENRY	803	17
CONTRACT NO. 62B43			ILLINOIS FED. AID PROJECT	

REVISED SHEET 2/27/2024

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0003	PLEASANT VALLEY ROADWAY	CULVERT REPLACEMENT S.N. #056-0309 0010	CULVERT REPLACEMENT S.N. #056-0310 0010	CULVERT REPLACEMENT S.N. #056-0311 0010	CULVERT REPLACEMENT S.N. #056-0110 0010	TRAFFIC SIGNALS 0021			STREET LIGHTING 0021	EVP
				80% FED 20% STATE NHPP	80% FED 20% STATE STP-U	80% FED 20% STATE NHPP	80% FED 20% STATE NHPP	80% FED 20% STATE NHPP	80% FED 20% STATE NHPP	IL 47 AT IL 176 WEST	IL 47 AT IL 176 EAST	INTERCONNECT	80% FED 20% STATE NHPP	80% FED 15% STATE 5% LAKEWOOD HNPP
				URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN
+ 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	85,573	74,843	10,730									
+ 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	5,011	4,977	34									
+ 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	3,667	3,169	498									
+ 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	4,111	3,870	241									
+ 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	388	344	44									
+ 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	622	622										
+ 78200021	HIGH TENSION CABLE MEDIAN BARRIER REFLECTORS	EACH	836	836										
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	74	74										
78300201	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	19,787	19,787										
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	3,798	3,798										
+ 80400100	ELECTRIC SERVICE INSTALLATION	EACH	2										2	
+ 80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1							0.5			0.5	
+ 81028180	UNDERGROUND CONDUIT, GALVANIZED STEEL, 1 1/4" DIA.	FOOT	185										185	
+ 81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	5,403							769	513	4,121		
+ 81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	2,172							1,032	1,140	1		
+ 81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	1,649							42	247		1,360	

+ INDICATES SPECIALTY ITEM

REVISED SHEET 2/28/2024



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET 16 OF 27 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105-N-2(15)	MCHENRY	803	21
CONTRACT NO. 62B43			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0003	PLEASANT VALLEY ROADWAY	CULVERT REPLACEMENT S.N. #056-0309 0010	CULVERT REPLACEMENT S.N. #056-0310 0010	CULVERT REPLACEMENT S.N. #056-0311 0010	CULVERT REPLACEMENT S.N. #056-0110 0010	TRAFFIC SIGNALS 0021			STREET LIGHTING 0021	EVP
				80% FED 20% STATE NHPP URBAN	80% FED 20% STATE STP-U URBAN	80% FED 20% STATE NHPP URBAN	80% FED 20% STATE NHPP URBAN	80% FED 20% STATE NHPP URBAN	80% FED 20% STATE NHPP URBAN	IL 47 AT IL 176 WEST	IL 47 AT IL 176 EAST	INTERCONNECT	80% FED 20% STATE NHPP URBAN	80% FED 15% STATE 5% LAKEWOOD HNPP URBAN
+ 81100420	CONDUIT ATTACHED TO STRUCTURE, 1 1/4" DIA., PVC COATED GALVANIZED STEEL	FOOT	30										30	
+ 81400100	HANDHOLE	EACH	21									6	7	8
+ 81400200	HEAVY-DUTY HANDHOLE	EACH	8									4	4	
+ 81400300	DOUBLE HANDHOLE	EACH	5									2	3	
+ 81603047	UNIT DUCT, 600V, 3-1C NO.6, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	14,100											14,100
+ 81702150	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2	FOOT	825											825
+ 82110008	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	83											83
+ 82500360	LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 100AMP	EACH	2											2
+ 83050810	LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 15 FT. MAST ARM	EACH	69											69
+ 83600365	LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 10" X 8'	EACH	69											69
+ 83800205	BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	69											69
+ 84200500	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	20											20
+ 84500110	REMOVAL OF LIGHTING CONTROLLER	EACH	2											2
+ 86000100	MASTER CONTROLLER	EACH	1									1		
+ 87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	4,353										4,353	

+ INDICATES SPECIALTY ITEM

REVISD SHEET 2/28/2024

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1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

USER NAME = JackD	DESIGNED - MAG	REVISED -
DRAWN - DJW	REVISIONS -	
PLOT SCALE = 2.0000' / in.	CHECKED - SJG	REVISED -
PLOT DATE = 12/19/2023	DATE - 12/15/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET 17 OF 27 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105-N-2(15)	MCHENRY	803	22
CONTRACT NO. 62B43			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0003	PLEASANT VALLEY ROADWAY	CULVERT REPLACEMENT S.N. #056-0309 0010	CULVERT REPLACEMENT S.N. #056-0310 0010	CULVERT REPLACEMENT S.N. #056-0311 0010	CULVERT REPLACEMENT S.N. #056-0110 0010	TRAFFIC SIGNALS 0021			STREET LIGHTING 0021	EVP
				80% FED 20% STATE NHPP	80% FED 20% STATE STP-U	80% FED 20% STATE NHPP	80% FED 20% STATE NHPP	80% FED 20% STATE NHPP	80% FED 20% STATE NHPP	IL 47 AT IL 176 WEST	IL 47 AT IL 176 EAST	INTERCONNECT	80% FED 20% STATE NHPP	100% LAKEWOOD NHPP
				URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN
+ 87703020	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 58 FT.	EACH	1								0	1		
									1					
+ 87703110	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 74 FT.	EACH	1									1		
+ 87800100	CONCRETE FOUNDATION, TYPE A	FOOT	24								12	12		
+ 87800150	CONCRETE FOUNDATION, TYPE C	FOOT	8								4	4		
+ 87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	93								53	40		
+ 87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	39								11	28		
+ 87800420	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	70								24	46		
+ 88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	26								10	16		
+ 88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5								3	2	1	
+ 88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	7								3	4		
+ 88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	16								8	8		
+ 88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	30								11	19	1	
	88200510	TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	33							13	20		
+ 88500100	INDUCTIVE LOOP DETECTOR	EACH	24								10	14		
+ 88600100	DETECTOR LOOP, TYPE I	FOOT	2,245	1							830	1,415	1	
+ 88700200	LIGHT DETECTOR	EACH	7								0	0		7

+ INDICATES SPECIALTY ITEM

1 REVISED SHEET 2/28/2024

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET 19 OF 27 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105-N-2(15)	MCHENRY	803	24
CONTRACT NO. 62B43			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0003	PLEASANT VALLEY ROADWAY	CULVERT REPLACEMENT S.N. #056-0309 0010	CULVERT REPLACEMENT S.N. #056-0310 0010	CULVERT REPLACEMENT S.N. #056-0311 0010	CULVERT REPLACEMENT S.N. #056-0110 0010	TRAFFIC SIGNALS 0021			STREET LIGHTING 0021	EVP	
				80% FED 20% STATE NHPP URBAN	80% FED 20% STATE STP-U URBAN	80% FED 20% STATE NHPP URBAN	80% FED 20% STATE NHPP URBAN	80% FED 20% STATE NHPP URBAN	80% FED 20% STATE NHPP URBAN	IL 47 AT IL 176 WEST	IL 47 AT IL 176 EAST	INTERCONNECT	80% FED 20% STATE NHPP URBAN	80% FED 15% STATE 5% LAKEWOOD HNPP URBAN	80% FED 20% STATE NHPP URBAN
+ 88700300	LIGHT DETECTOR AMPLIFIER	EACH	2								0	0	1		2
+ 89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	2								1	1			
+ 89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2								1	1			
+ 89502380	REMOVE EXISTING HANDHOLE	EACH	26								9	10	7		
+ 89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	3								1	1	1		
+ 89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	13								6	7			
+ A2000320	TREE, ACER MIYABEI MORTON (STATE STREET MIYABE MAPLE), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	2	2											
+ A2001612	TREE, ACER SACCHARINUM MORTON (CRESCENDO SUGAR MAPLE), 2" CALIPER, BALLED AND BURLAPPED	EACH	2	2											
+ A2002008	TREE, AESCULUS FLAVEA (YELLOW SWEET BUCKEYE), 2" CALIPER, BALLED AND BURLAPPED	EACH	14	14											
+ A2002020	TREE, AESCULUS GLABRA (OHIO BUCKEYE), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	11	11											
+ A2002282	TREE, ALNUS X SPAETHII (SPAETHS ALDER), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	6	6											
+ A2002564	TREE, CARPINUS CAROLINIANA (AMERICAN HORNBEAM), 5' HEIGHT, SHRUB FORM, BALLED AND BURLAPPED	EACH	21	21											
+ A2002616	TREE, CARYA CORDIFORMIS (BITTERNUT HICKORY), 2" CALIPER, BALLED AND BURLAPPED	EACH	4	4											
+ A2002716	TREE, CARYA OVATA (SHAGBARK HICKORY), 2" CALIPER, BALLED AND BURLAPPED	EACH	8	8											
+ A2002816	TREE, CATALPA SPECIOSA (NORTHERN CATALPA), 2" CALIPER, BALLED AND BURLAPPED	EACH	10	10											

+ INDICATES SPECIALTY ITEM

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PLOT DATE = 12/19/2023	DATE - 12/15/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**


SUMMARY OF QUANTITIES

SCALE: SHEET 20 OF 27 SHEETS STA. TO STA.

F.A.P. RTE. 326	SECTION 105-N-2(15)	COUNTY MCHENRY	TOTAL SHEETS 803	SHEET NO. 25
CONTRACT NO. 62B43			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0003	PLEASANT VALLEY ROADWAY	CULVERT REPLACEMENT S.N. #056-0309 0010	CULVERT REPLACEMENT S.N. #056-0310 0010	CULVERT REPLACEMENT S.N. #056-0311 0010	CULVERT REPLACEMENT S.N. #056-0110 0010	TRAFFIC SIGNALS 0021			STREET LIGHTING 0021	EVP
				80% FED 20% STATE NHPP URBAN	80% FED 20% STATE STP-U URBAN	80% FED 20% STATE NHPP URBAN	80% FED 20% STATE NHPP URBAN	80% FED 20% STATE NHPP URBAN	80% FED 20% STATE NHPP URBAN	IL 47 AT IL 176 WEST	IL 47 AT IL 176 EAST	INTERCONNECT	80% FED 20% STATE NHPP URBAN	80% FED 15% STATE 5% LAKEWOOD HNPP URBAN
+ X0322141	REMOVE TEMPORARY WOOD POLE	EACH	23										23	
+ X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	2,282								0	0		2,282
+ X0325222	WEED CONTROL, BASAL TREATMENT	GALLON	40	40										
+ X0325922	CELLULAR MODEM	EACH	1								0	1		
+ X0326148	TEMPORARY WOOD POLE, 60 FT., CLASS 4, 15 FT. MAST ARM	EACH	23										23	
+ X0326364	TEMPORARY AERIAL CABLE WITH MESSENGER WIRE	FOOT	3,600										3,600	
+ X0326899	SOLAR-POWERED FLASHING BEACON ASSEMBLY (COMPLETE)	EACH	2	2										
+ X5020100	AGGREGATE COLUMN GROUND IMPROVEMENT	L SUM	1	1										
+ X0327698	LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	14								6	8		
+ X0328020	CENTRACS LICENSE EXPANSION	EACH	2									2		
X0488100	REMOVING EXISTING SEPTIC TANK	EACH	1	1										
X5810103	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	709	126		204		193	186					
+ X1400102	OUTDOOR RATED NETWORK CABLE	FOOT	487								250	237		
+ X1400108	FULL-ACTUATED CONTROLLER AND TYPE SUPER R CABINET (SPECIAL)	EACH	2								1	1		
+ X1400150	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	2								1	1		

+ INDICATES SPECIALTY ITEM

 REVISED SHEET 2/28/2024

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1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

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PLOT DATE = 12/19/2023		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET 23 OF 27 SHEETS STA. TO STA.

F.A.P. RTE. 326	SECTION 105-N-2(15)	COUNTY MCHENRY	TOTAL SHEETS 803	SHEET NO. 28
CONTRACT NO. 62B43			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0003	PLEASANT VALLEY ROADWAY	CULVERT REPLACEMENT S.N. #056-0309 0010	CULVERT REPLACEMENT S.N. #056-0310 0010	CULVERT REPLACEMENT S.N. #056-0311 0010	CULVERT REPLACEMENT S.N. #056-0110 0010	TRAFFIC SIGNALS 0021			STREET LIGHTING 0021	EVP
				80% FED 20% STATE NHPP	80% FED 20% STATE STP-U	80% FED 20% STATE NHPP	80% FED 20% STATE NHPP	80% FED 20% STATE NHPP	80% FED 20% STATE NHPP	IL 47 AT IL 176 WEST	IL 47 AT IL 176 EAST	INTERCONNECT	80% FED 20% STATE NHPP	100% LAKEWOOD NHPP
				URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN
+ X1400215	REMOTE CONTROLLED VIDEO SYSTEM	EACH	2								1	1		
+ X1400216	LAYER II (DATALINK) SWITCH	EACH	2								1	1		
+ X1400217	TERMINATE FIBER IN CABINET	EACH	2											
+ X1400219	SPLICE FIBER IN CABINET	EACH	4											
+ X1400279	REMOVAL OF TEMPORARY LIGHTING CONTROLLER, NO SALVAGE	EACH	3										3	
+ X1400367	PEDESTRIAN SIGNAL POST, 10 FT.	EACH	1								1			
+ X1400378	PEDESTRIAN SIGNAL POST, 5 FT.	EACH	4								1	3		
+ X1400512	FIBER OPTIC INTERCONNECT CENTER, 24 PORT	EACH	2										2	
+ C2C12402	SHRUB-VIBURNUM PRUNIFOLIUM (BLACKHAW VIBURNUM), 2" CALIPER, BALLED AND BURLAPPED	EACH	20	20										
X2110100	TOPSOIL FURNISH AND PLACE, SPECIAL	CU YD	4,538	4,252	286									
+ X2502024	SEEDING, CLASS 4B (MODIFIED)	ACRE	11	10	1									
+ X2511630	EROSION CONTROL BLANKET (SPECIAL)	SQ YD	178,555	148,218	30,337									
X4020800	AGGREGATE SURFACE COURSE, TYPE B 12"	SQ YD	1,206	1,206										
X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	26	25	1									
X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	9	9										
X4024000	TEMPORARY ACCESS (FIELD ENTRANCE)	EACH	16	15	1									

+ INDICATES SPECIALTY ITEM

1 REVISED SHEET 2/28/2024

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET 24 OF 27 SHEETS STA. TO STA.

F.A.P. RTE. 326	SECTION 105-N-2(15)	COUNTY MCHENRY	TOTAL SHEETS 803	SHEET NO. 29
CONTRACT NO. 62B43			ILLINOIS FED. AID PROJECT	

IDOT DISTRICT ONE HOT-MIX ASPHALT REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @ NDES	QUALITY MANAGEMENT PROGRAM (QMP)
HMA PAVEMENT (FD) 10 1/2" (IL ROUTE 47)		
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", IL-9.5, N70: 2"	4% @ 70 GYR	QCP
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90: 2 1/4"	4% @ 90 GYR	QCP
HOT-MIX ASPHALT BASE COURSE, IL-19.0, N90: 6 1/4"	4% @ 90 GYR	PFP
HMA PAVEMENT (FD) 10" (IL ROUTE 176)		
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", IL-9.5, N70: 2"	4% @ 70 GYR	QCP
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90: 2 1/4"	4% @ 90 GYR	QCP
HOT-MIX ASPHALT BASE COURSE, IL-19.0, N90: 5 3/4"	4% @ 90 GYR	QCP
HMA PAVEMENT (FD) 7" (PLEASANT VALLEY RD, CONNECTOR RD, & SWANSON RD)		
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", IL-9.5, N70: 2"	4% @ 70 GYR	QCP
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70: 5"	4% @ 70 GYR	QCP
HMA SHOULDERS 8" (INTERIOR) - IL ROUTE 47 & IL ROUTE 176		
HOT-MIX ASPHALT SURFACE COURSE, MIX "E", IL-9.5, N70: 2"	4% @ 70 GYR	QC/QA
HOT-MIX ASPHALT BASE COURSE, IL-19.0, N90: 6"	4% @ 90 GYR	QC/QA
HMA SHOULDERS 10 1/2" (EXTERIOR) - IL ROUTE 47		
HOT-MIX ASPHALT SURFACE COURSE, MIX "E", IL-9.5, N70: 2"	4% @ 70 GYR	QC/QA
HOT-MIX ASPHALT BASE COURSE, IL-19.0, N90: 8 1/2"	4% @ 90 GYR	QC/QA
HMA SHOULDERS 10" (EXTERIOR) - IL ROUTE 176		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70: 2"	4% @ 70 GYR	QC/QA
HOT-MIX ASPHALT BASE COURSE, IL-19.0, N90: 8"	4% @ 90 GYR	QCP
HMA SHOULDERS 7" (EXTERIOR) - (PLEASANT VALLEY ROAD, CONNECTOR RD, & SWANSON RD)		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70: 2"	4% @ 70 GYR	QC/QA
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70: 5"	4% @ 70 GYR	QC/QA
VARIABLE DEPTH HMA (IL ROUTE 47 AT PROPOSED S.N. 056-0311)		
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70: VARIABLE DEPTH	4% @ 70 GYR	QC/QA
HMA MULTI-USE PATH		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N50: 3" (IN 2 LIFTS)	4% @ 50 GYR	QC/QA
DRIVEWAYS		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N50: 2"	4% @ 50 GYR	QC/QA
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19mm); PE - 6"; CE - 8"	4% @ 50 GYR	QC/QA
TEMPORARY PAVEMENT (OPTION 1)		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70: 2"	4% @ 70 GYR	QC/QA
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70: 8"	4% @ 70 GYR	QC/QA
PATCHING		
CLASS D PATCHES (HMA BINDER COURSE IL-19mm)	4% @ 70 GYR	QC/QA
QMP DESIGNATIONS: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA); QUALITY CONTROL FOR PERFORMANCE (QCP); PAY FOR PERFORMANCE (PFP)		

HOT-MIX ASPHALT NOTES:

THE UNIT WEIGHT USED TO CALCULATE HOT-MIX ASPHALT MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

THE "AC TYPE" FOR POLYMERIZED HOT-MIX ASPHALT MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HOT-MIX ASPHALT THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY RECLAIMED MATERIALS SPECIFICATIONS.

IF THE CONTRACTOR CHOOSES TO USE PORTLAND CEMENT CONCRETE FOR TEMPORARY PAVEMENT, THE THICKNESS SHALL BE 8". PCC TEMPORARY PAVEMENT SHALL CONSIST OF CLASS PV CONCRETE MEETING THE REQUIREMENTS OF ART. 1020 OF THE STANDARD SPECIFICATIONS. TEMPORARY PCC PAVEMENT DOES NOT REQUIRE DOWEL BARS.

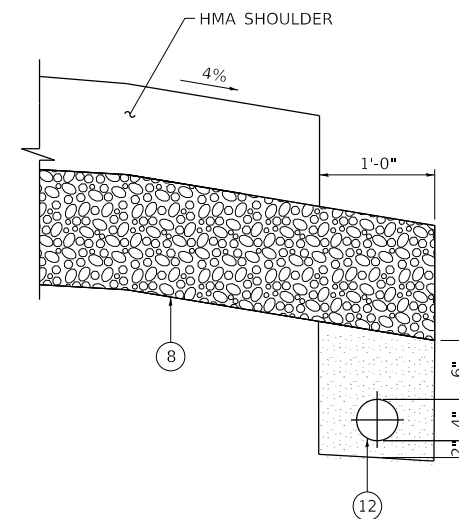
SUBGRADE NOTES:

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

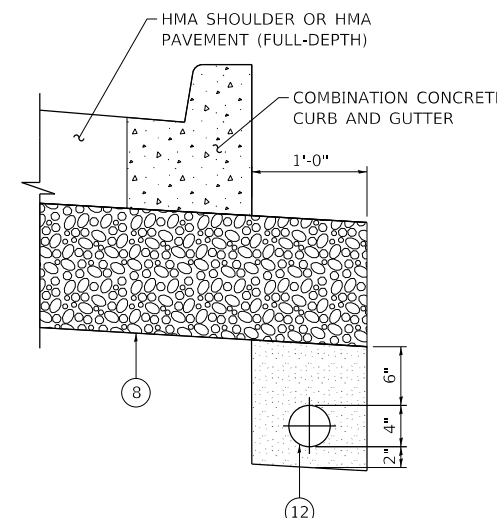
AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSTABLE AND/OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ASI WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC OR DYNAMIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 OF THE STANDARD SPECIFICATIONS AND IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.

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

APPROXIMATE UNDERCUT LIMITS		
STATION LIMITS	TREATMENT WIDTH	TREATMENT DEPTH/ELEVATION (FEET)
582+50 TO 585+50	ROADWAY WIDENING BOTH SIDES	2.0/914.6
615+50 TO 617+00	30' LT TO 80' LT	3.0/893.6
623+00 TO 626+50	EMBANKMENT WIDTH	6.5/893.6
626+50 TO 628+50	NORTHBOUND EMBANKMENT WIDTH	7.0/890.8
637+00 TO 640+00	30' RT TO 80' RT	3.0 TO 5.0/900.0
651+00 TO 652+50	30' RT TO 80' RT	1.0 TO 3.0/907.0
307+50 TO 608+50	30' LT TO 70' LT	3.0/911.1
423+00 TO 425+50	CENTERLINE TO 80' LT	2.3/906.7



PIPE UNDERDRAIN 4" - UNDER SHOULDER



PIPE UNDERDRAIN 4" - UNDER CURB AND GUTTER

PROPOSED LEGEND

- 1 GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- 2 6" TOPSOIL PLACEMENT
- 3 SEEDING, CLASS 2A
- 4 SEEDING, CLASS 4
- 5 SEEDING, CLASS 4B (MODIFIED)
- 6 SODDING, SALT TOLERANT
- 7 AGGREGATE SUBGRADE IMPROVEMENT
- 8 AGGREGATE SUBGRADE IMPROVEMENT, 12"
- 9 BIOSWALE (SEE DETAIL)
- 10 SUBBASE GRANULAR MATERIAL, TYPE C
- 11 PIPE UNDERDRAIN, TYPE 1, 6"
- 12 PIPE UNDERDRAIN, TYPE 2, 4"
- 13 SUBBASE GRANULAR MATERIAL, TYPE B, 4"
- 14 HIGH TENSION CABLE MEDIAN BARRIER
- 15 HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 7"
- 16 HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 10"
- 17 HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 10 1/2"
- 18 CONCRETE MEDIAN, TYPE SM-6.12 (SPECIAL)
- 19 AGGREGATE SHOULDERS, TYPE B, 10"
- 20 HOT-MIX ASPHALT SHOULDERS, 7"
- 21 HOT-MIX ASPHALT SHOULDERS, 8"
- 22 HOT-MIX ASPHALT SHOULDERS, 10"
- 23 HOT-MIX ASPHALT SHOULDERS, 10 1/2"
- 24 COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.06
- 25 COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.12
- 26 COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.24
- 27 CONCRETE MEDIAN SURFACE, 6 INCH
- 28 COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
- 29 CONCRETE MEDIAN, TYPE SM-4.12 (SPECIAL)
- 30 CONCRETE MEDIAN, TYPE SM-4.24
- 31 PORTLAND CEMENT CONCRETE SIDEWALK, 5"
- 32 AGGREGATE BASE COURSE, TYPE B, 6"
- 33 HOT MIX ASPHALT SURFACE COURSE, MIX "D", N50, 3"

NOTE: THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED BEFORE AND AFTER TOP LIFT OF HMA BINDER COURSE.

▲ REVISED SHEET 2/28/2024

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	1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200	USER NAME = StevenB	DESIGNED - MAG	REVISED ▲ 2/23/2024	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HOT-MIX ASPHALT REQUIREMENTS & PIPE UNDERDRAIN DETAIL TYPICAL SECTIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 20.0000 ft / in.	CHECKED - SJG	REVISED -	326			105-N-2(15)	MCHENRY	803	58		
PLOT DATE = 2/23/2024	DATE - 12/15/2023	REVISED -	SCALE: SHEET OF SHEETS STA. TO STA.			CONTRACT NO. 62B43						
											ILLINOIS FED. AID PROJECT	

SCHEDULE OF PAVEMENT							
FROM STATION	TO STATION	AGGREGATE SUBGRADE IMPROVEMENT 12" (SQ YD) 30300112	BITUMINOUS MATERIALS (PRIME COAT) (POUND) 40600275	BITUMINOUS MATERIALS (TACK COAT) (POUND) 40600290	HMA PAVEMENT (FULL-DEPTH), 7" (SQ YD) 40701821	HMA PAVEMENT (FULL-DEPTH), 10" (SQ YD) 40701881	HMA PAVEMENT (FULL-DEPTH), 10 1/2" (SQ YD) 40701891
Station	Station						
273+28.41	273+38.13	34.74	67.85	11.66	25.92		
273+38.13	276+50.00	1126.78	2176.95	374.24	831.65		
276+50.00	278+67.98	920.36	1521.57	261.58	581.28		
278+67.98	279+98.19	549.78	908.91	156.26	347.23		
279+98.19	290+66.33	4509.92	7455.96	1281.76	2848.37		
290+66.33	292+52.33	868.83	1298.34	256.26	579.29		
292+52.33	295+36.12	1432.82	1980.94	343.30	757.56		
295+36.12	296+93.88	956.99	1101.21	283.97	718.54		
296+93.88	298+69.68	1320.71	1227.14	400.30	800.71		
298+69.68	299+22.10	455.36	365.91	151.98		360.70	
299+22.10	299+48.82	375.40	186.51	123.44			330.62
300+51.11	300+73.09	278.78	186.38	173.61			233.60
300+73.09	301+07.51	381.09	291.86	165.65			314.75
301+07.51	301+55.00	491.57	677.35	180.89		351.35	
301+55.00	302+03.88	505.96	697.17	158.79		331.92	
302+03.88	303+91.97	1549.17	2682.72	564.41		1098.40	
303+91.97	304+63.41	1263.86	1018.94	203.38		684.98	
304+63.41	306+14.74	1108.97	2158.41	367.54		902.94	
306+14.74	308+81.08	1878.10	3798.79	639.06		1420.48	
308+81.08	310+64.74	1875.71	2619.53	491.28		1093.75	
310+64.74	313+04.99	1878.22	3426.67	547.50		1153.20	
313+04.99	316+64.74	2332.78	5131.09	712.50		1247.13	
400+12.00	400+15.97	172.81	31.97	10.20	48.07		
400+15.97	400+68.45	113.08	422.61	74.01	320.22		
400+68.45	401+37.53	88.23	556.29	97.42	184.21		
401+37.53	404+10.00	1234.88	2194.16	384.24	726.59		
404+10.00	404+30.27	42.03	131.14	15.24		41.06	
404+30.27	411+47.84	5187.63	9162.86	1292.51		2869.08	
411+47.84	412+49.87	874.51	1302.85	248.44		566.49	
412+49.87	411+97.11	30.96	44.65	36.16	16.64		
411+97.11	412+08.02	54.50	78.07	23.19	27.69		
412+08.02	412+34.80	67.96	191.62	56.93	80.70		
412+34.80	412+58.72	50.15	171.16	50.85	129.63		
412+58.72	415+49.93	2839.33	3831.55	720.14		1933.62	
415+49.93	418+99.50	171.00	52.74	15.67	53.23		
418+99.50	420+79.60	3466.19	4463.76	839.57		1864.37	
420+79.60	421+60.44	1785.29	2299.75	431.64		960.53	
421+60.44	422+03.48	817.38	1032.27	205.36		447.58	
422+03.48	422+03.48	442.43	549.59	109.33		251.71	
422+03.48	423+44.36	1476.11	1798.94	419.02		930.12	
423+44.36	425+03.48	1764.20	2031.85	545.08		1213.11	
425+03.48	425+52.34	560.04	623.91	175.89		390.88	
425+52.34	426+88.49	1482.60	1738.54	467.56		1038.30	
426+88.49	428+23.12	1765.10	1727.34	612.29		1301.70	
428+23.12	428+37.50	76.34	184.50	93.69		73.39	
502+16.66	503+41.66	541.46	752.37	157.78	346.18		
503+41.66	506+36.52	1441.54	1774.75	446.72	982.87		
506+36.52	506+63.21	131.54	160.65	42.33	94.08		
506+63.21	506+71.71	42.44	51.16	8.38		33.10	
506+71.71	506+95.40	146.84	299.59	50.51		123.83	
506+95.40	507+04.66	76.82	117.11	30.44		66.63	
507+04.66	507+10.79	62.36	77.52	31.39		54.07	
507+10.79	507+17.92	93.68	42.92	63.99		85.64	
565+80.00	566+91.60	593.46	2227.55	138.07		310.62	
566+91.60	570+19.13	2118.76	6537.53	516.03		1129.43	
570+19.13	571+19.13	780.72	1996.01	182.31		477.34	
571+19.13	574+19.13	2776.04	5988.03	669.46		1581.19	
574+19.13	576+79.13	2525.47	5189.62	572.00		1333.08	
576+79.13	586+82.35	10400.02	20024.36	2814.11		6258.16	
586+82.35	587+69.47	990.94	1738.92	360.24		793.76	
587+69.47	587+75.62	71.10	122.75	21.79		56.99	
587+75.62	588+00.73	313.07	501.20	107.16		267.74	
588+00.73	589+41.71	1596.68	2813.97	617.27		1534.40	
589+41.71	592+08.67	3242.77	5328.55	1122.41		2523.21	
592+08.67	592+78.70	1048.77	1397.81	299.92		862.11	

SCHEDULE OF PAVEMENT							
FROM STATION	TO STATION	AGGREGATE SUBGRADE IMPROVEMENT 12" (SQ YD) 30300112	BITUMINOUS MATERIALS (PRIME COAT) (POUND) 40600275	BITUMINOUS MATERIALS (TACK COAT) (POUND) 40600290	HMA PAVEMENT (FULL-DEPTH), 7" (SQ YD) 40701821	HMA PAVEMENT (FULL-DEPTH), 10" (SQ YD) 40701881	HMA PAVEMENT (FULL-DEPTH), 10 1/2" (SQ YD) 40701891
592+78.70	594+42.80	2226.10	3275.45	670.59			1720.94
594+42.80	594+73.41	384.10	610.98	105.94			274.45
594+73.41	594+85.15	143.74	234.33	42.29			102.29
594+85.15	595+78.70	1090.54	1867.27	269.86			662.54
595+78.70	618+90.82	23843.80	46150.12	6667.02			13269.71
618+90.82	621+55.82	2801.93	5289.42	854.63			1590.00
621+55.82	625+78.45	4750.36	8435.73	1394.68			2817.53
625+78.45	628+64.80	3209.08	5715.57	836.15			2104.24
628+64.80	629+97.07	1673.21	2640.12	476.87			1312.27
629+97.07	633+37.96	4029.03	6804.19	1301.51			2890.79
633+37.96	633+41.94	45.68	79.44	15.94			36.26
633+41.94	634+58.61	1342.35	2328.74	467.38			1114.85
634+58.61	634+84.80	280.89	522.75	88.20			210.88
634+84.80	635+24.00	545.38	782.44	124.72			407.81
635+24.00	635+62.41	412.69	766.67	122.19			278.73
635+62.41	637+56.08	1961.91	3865.67	581.67			1291.37
637+56.08	640+15.57	2628.34	5179.44	757.95			1701.10
640+15.57	654+50.00	14529.18	28631.35	3441.88			7650.29
654+50.00	657+70.87	3070.74	6404.59	803.64			1824.70
657+70.87	657+88.24	136.39	346.71	38.68			101.55
657+88.24	658+00.00	96.86	234.73	21.16			61.73
658+00.00	659+00.00	746.66	1996.01	180.00			444.22
659+00.00	660+00.00	634.56	1996.01	180.00			332.44
660+00.00	660+91.74	528.52	1831.14	165.14			255.85
700+78.31	701+63.70	228.66	372.22	82.27		182.83	
701+63.70	702+60.58	244.89	422.31	82.35		183.00	
702+60.58	704+10.94	361.95	655.43	127.81		284.01	
704+10.94	705+22.39	254.85	485.82	94.73		210.52	
801+35.82	806+28.17	1686.57	1676.49	408.95		875.29	

SCHEDULE OF DRIVEWAYS						
STATION	LT/RT	HMA BASE COURSE, 6" (SQ YD) 35501308	HMA BASE COURSE, 8" (SQ YD) 35501316	HMA SURFACE COURSE, IL-9.5, MIX 4D, N50 (TON) 40604060	BITUMINOUS MATERIALS (TACK COAT) (POUND) 40600290	AGGREGATE SURFACE COURSE, TYPE B 12" (SQ YD) (X4020800)
277+63.00	LT	215.18		24.10	86.96	
312+40.00	LT	34.02		3.81	39.52	52.18
312+72.00	RT	39.28		4.40	47.87	68.07
315+31.00	RT	185.81		20.81	61.24	
319+10.00	RT	93.99		10.53	45.67	
320+33.00	RT	68.89		7.72	41.01	
403+73.00	LT		219.31	27.12	111.15	
406+96.00	RT	63.33		7.09	56.24	114.97
415+12.00	RT	50.99		5.71	52.77	66.36
567+02.00	LT	90.04		10.08	40.58	
569+54.00	LT	81.45		9.12	36.75	
570+40.00	LT	103.97		11.65	48.16	
571+40.00	LT	161.56		18.09	75.36	
571+86.00	LT	165.07		18.49	73.97	
575+33.00	RT	294.98		33.04	115.93	
575+74.00	LT		279.11	31.83	134.85	
581+75.00	RT		220.94	24.75	106.21	
608+00.00	LT	42.67		4.78	64.62	100.93
608+00.00	RT	49.33		5.53	74.62	116.48
618+50.00	LT	42.67		4.78	64.62	100.93
622+00.00	LT	42.67		4.78	64.20	100.00
624+53.00	RT	49.33		5.53	109.62	194.26
632+00.00	RT	45.52		5.10	21.27	
649+77.00	LT	44.72		5.01	70.05	110.94
649+77.00	RT	65.67		7.35	79.56	111.11
655+97.00	LT	90.56		10.14	40.68	
658+94.00	RT	50.86		5.70	53.88	69.07
659+25.00	LT	105.35		11.80	47.21	
659+95.00	RT		254.26	13.88	55.72	
662+51.00	LT	99.05		11.09	44.57	
665+47.00	RT	65.61		7.35	34.35	
665+96.00	RT	59.19		6.63	29.34	
566+00.00	LT	129.06		14.45	71.47	

SCHEDULE AT SN 056-0311			
FROM STATION	TO STATION	SUBBASE GRANULAR MATERIAL, TYPE B 5" (SQ YD) 31101300	HMA BINDER COURSE, IL-19.0, N70 (TON) 40603085
654+01.66	654+12.33	106	35

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

REVISED SHEET 2/28/2024

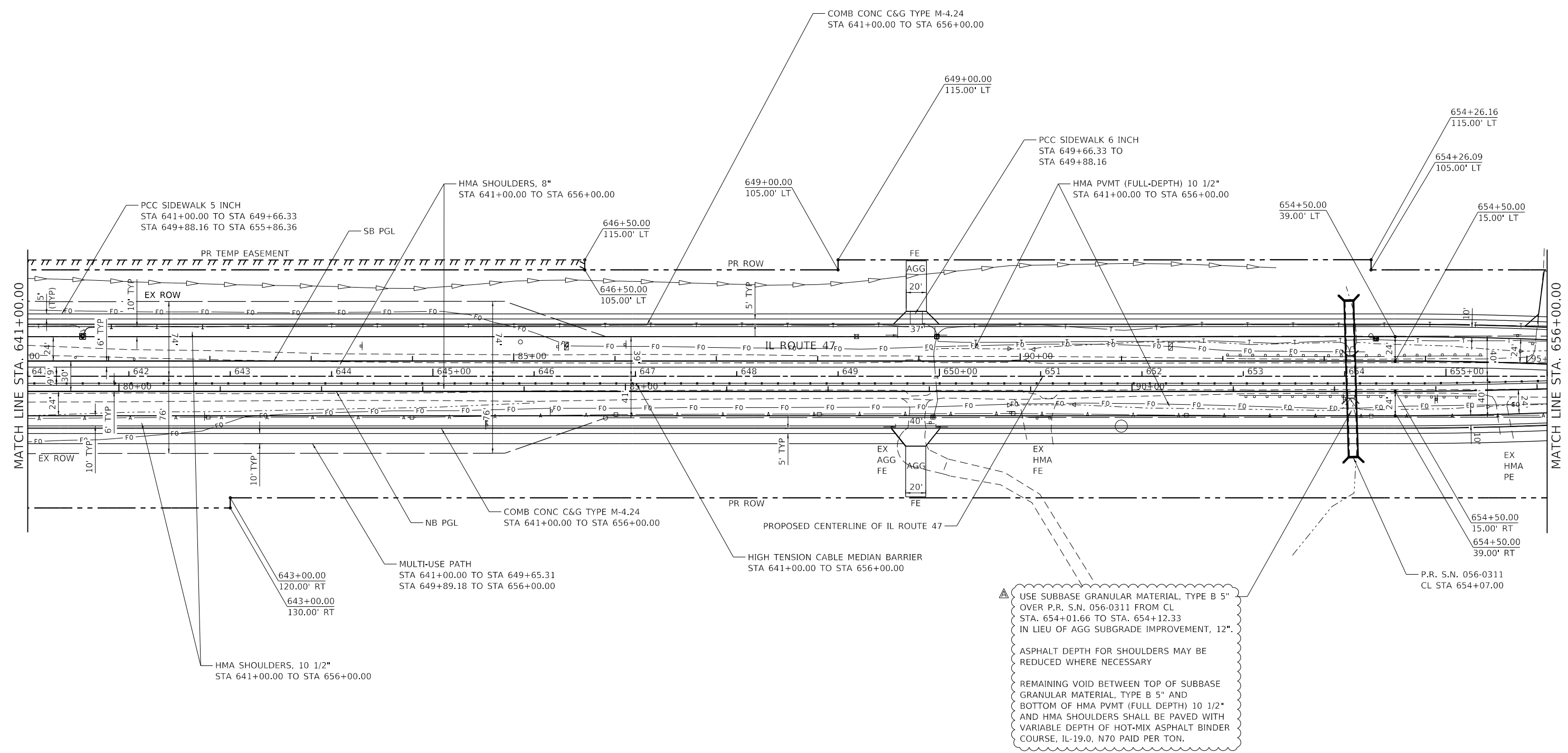
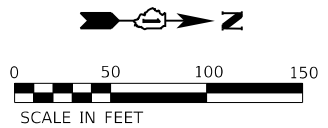
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USER NAME = StevenB	DESIGNED - MAG	REVISED - 2/23/2024
PLOT SCALE = 50.0000' / in.	DRAWN - DJW	REVISED -
PLOT DATE = 2/19/2024	CHECKED - SJG	REVISED -
	DATE - 12/15/2023	REVISED -

SCALE:	SHEET 11 OF 12 SHEETS	STA.	TO STA.
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F.A.P. RTE. 326	SECTION 105-N-2(15)	COUNTY MCHENRY	TOTAL SHEETS 803	SHEET NO. 69
CONTRACT NO. 62B43				
ILLINOIS FED. AID PROJECT				



USE SUBBASE GRANULAR MATERIAL, TYPE B 5" OVER P.R. S.N. 056-0311 FROM CL STA. 654+01.66 TO STA. 654+12.33 IN LIEU OF AGG SUBGRADE IMPROVEMENT, 12".
 ASPHALT DEPTH FOR SHOULDERS MAY BE REDUCED WHERE NECESSARY
 REMAINING VOID BETWEEN TOP OF SUBBASE GRANULAR MATERIAL, TYPE B 5" AND BOTTOM OF HMA PVMT (FULL DEPTH) 10 1/2" AND HMA SHOULDERS SHALL BE PAVED WITH VARIABLE DEPTH OF HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 PAID PER TON.

REVISION 1 REVISED SHEET 2/28/2024

MODEL: D:\4641\1170 SOUTH HOUBOLT ROAD\1170 SOUTH HOUBOLT ROAD\CAD_Sheets\1170 SOUTH HOUBOLT ROAD\CAD_Sheets\1170 SOUTH HOUBOLT ROAD\1170 SOUTH HOUBOLT ROAD.dwg
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 PLOT DATE: 2/16/2024



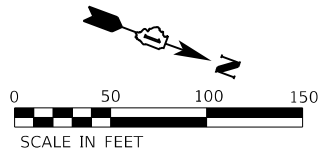
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PLOT DATE = 2/16/2024	CHECKED - SJG	REVISED -
	DATE - 12/15/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 47
ROADWAY PLAN

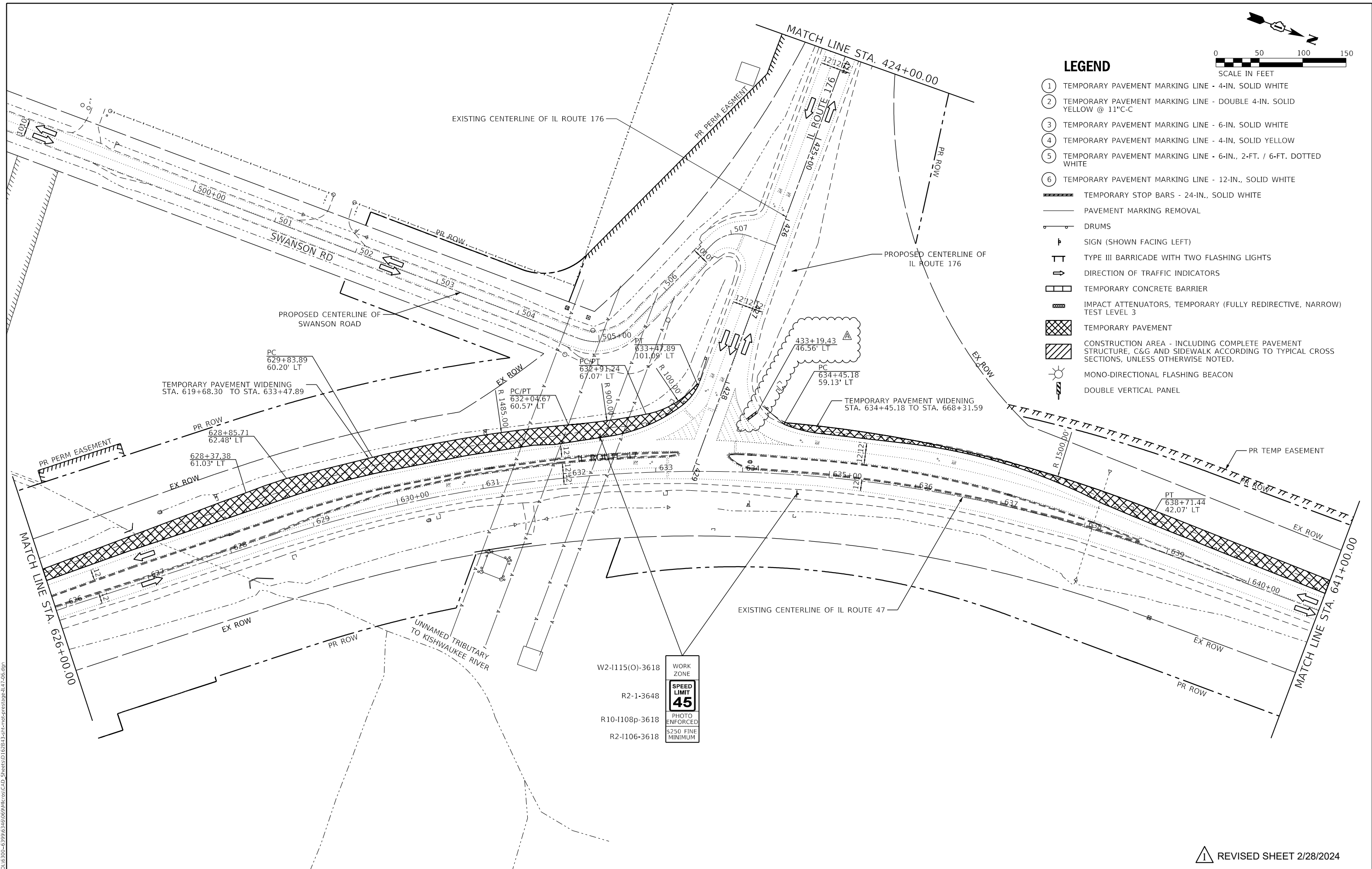
SCALE: 1" = 50' SHEET 7 OF 8 SHEETS STA. 641+00.00 TO STA. 656+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105-N-2(15)	MCHENRY	803	108
CONTRACT NO. 62B43				
ILLINOIS FED. AID PROJECT				



LEGEND

- ① TEMPORARY PAVEMENT MARKING LINE - 4-IN. SOLID WHITE
- ② TEMPORARY PAVEMENT MARKING LINE - DOUBLE 4-IN. SOLID YELLOW @ 11" C-C
- ③ TEMPORARY PAVEMENT MARKING LINE - 6-IN. SOLID WHITE
- ④ TEMPORARY PAVEMENT MARKING LINE - 4-IN. SOLID YELLOW
- ⑤ TEMPORARY PAVEMENT MARKING LINE - 6-IN., 2-FT. / 6-FT. DOTTED WHITE
- ⑥ TEMPORARY PAVEMENT MARKING LINE - 12-IN., SOLID WHITE
- ▬ TEMPORARY STOP BARS - 24-IN., SOLID WHITE
- PAVEMENT MARKING REMOVAL
- ⊥ DRUMS
- ⊥ SIGN (SHOWN FACING LEFT)
- ⊥ TYPE III BARRICADE WITH TWO FLASHING LIGHTS
- ➔ DIRECTION OF TRAFFIC INDICATORS
- ▭ TEMPORARY CONCRETE BARRIER
- ▨ IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW) TEST LEVEL 3
- ▩ TEMPORARY PAVEMENT
- ▨ CONSTRUCTION AREA - INCLUDING COMPLETE PAVEMENT STRUCTURE, C&G AND SIDEWALK ACCORDING TO TYPICAL CROSS SECTIONS, UNLESS OTHERWISE NOTED.
- ⦿ MONO-DIRECTIONAL FLASHING BEACON
- ⊥ DOUBLE VERTICAL PANEL



W2-1115(O)-3618 WORK ZONE

R2-1-3648 SPEED LIMIT 45

R10-1108p-3618 PHOTO ENFORCED

R2-1106-3618 \$250 FINE MINIMUM

▲ REVISED SHEET 2/28/2024

MODEL: D:\m\1170 SOUTH HOUBOLT ROAD\1170 SOUTH HOUBOLT ROAD\CAD_Sheets\1170 SOUTH HOUBOLT ROAD\CAD_Sheets\1170 SOUTH HOUBOLT ROAD\1170-06.dgn
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SA STRAND ASSOCIATES
 1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

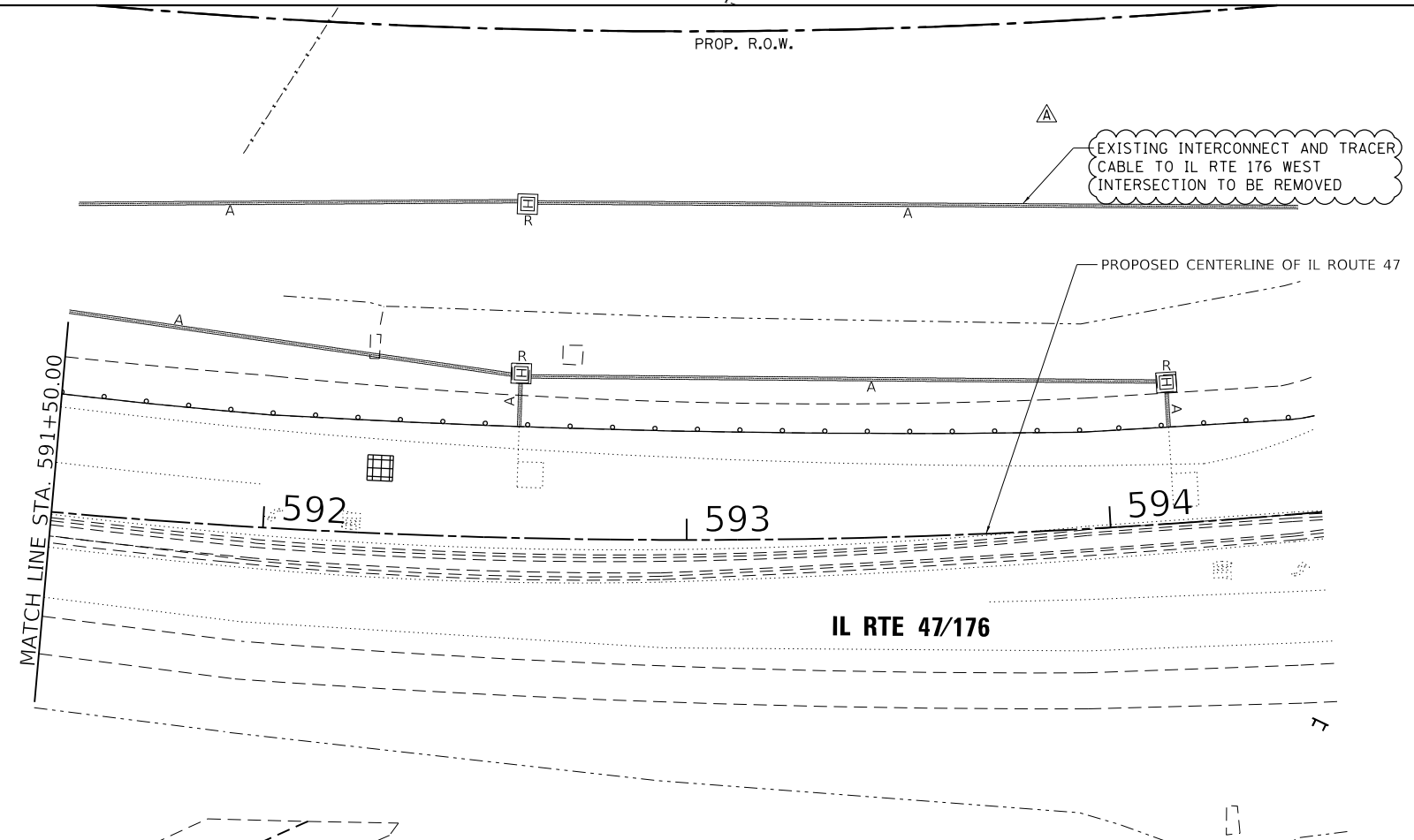
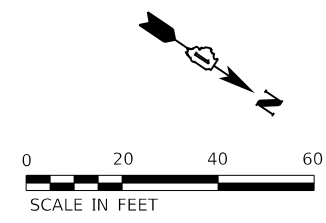
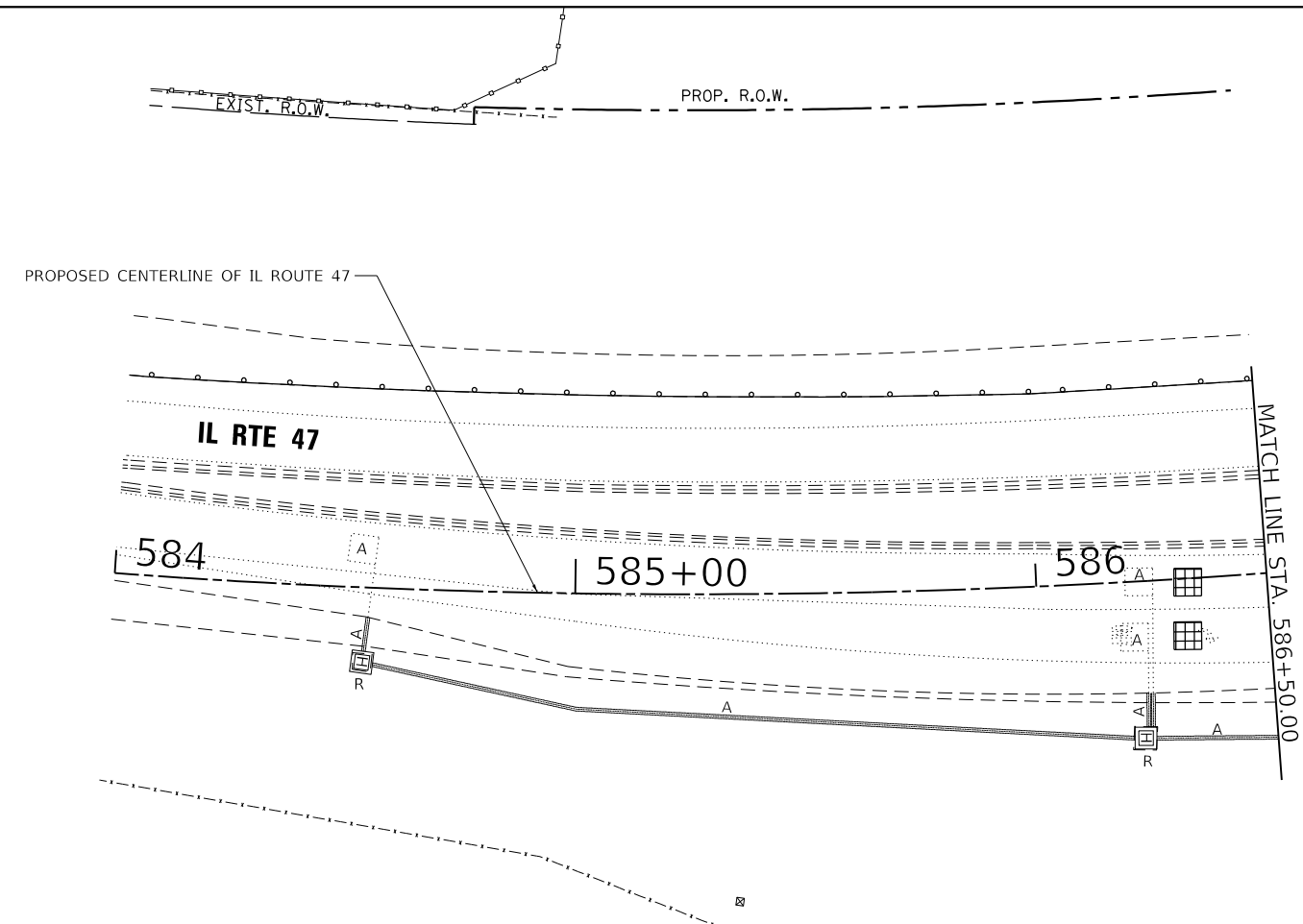
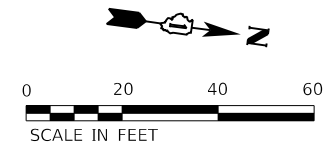
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	DRAWN - DJW	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - SJG	REVISED -
PLOT DATE = 2/15/2024	DATE - 12/15/2023	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
 PRESTAGE A - IL 47**

SCALE: 1" = 50' SHEET 6 OF 8 SHEETS STA. 626+00.00 TO STA. 641+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105-N-2(15)	MCHENRY	803	162
			CONTRACT NO. 62B43	
ILLINOIS FED. AID PROJECT				



TS 21240
FORMER ECON 22
IDOT CENTRACS

REVISD SHEET 2/28/2024

TS SHT NO. 10

MODEL: D:\m\1170\1170.dwg
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USER NAME = alexam	DESIGNED - MAG	REVISED ^A 2/23/2024
DRAWN - DJW	CHECKED - SJG	REVISED -
PLOT SCALE = 40.0000' / in.	DATE - 12/15/2023	REVISED -
PLOT DATE = 2/26/2024		

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND
 REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN (SHEET 2 OF 2)
 IL ROUTE 47 AND IL ROUTE 176 (S. JUNCTION)/PLEASANT VALLEY ROAD
 SCALE: 1" = 20' SHEET 2 OF 11 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105-N-2(15)	MCHENRY	803	504
CONTRACT NO. 62B43				
ILLINOIS FED. AID PROJECT				

TS SHT NO. 11

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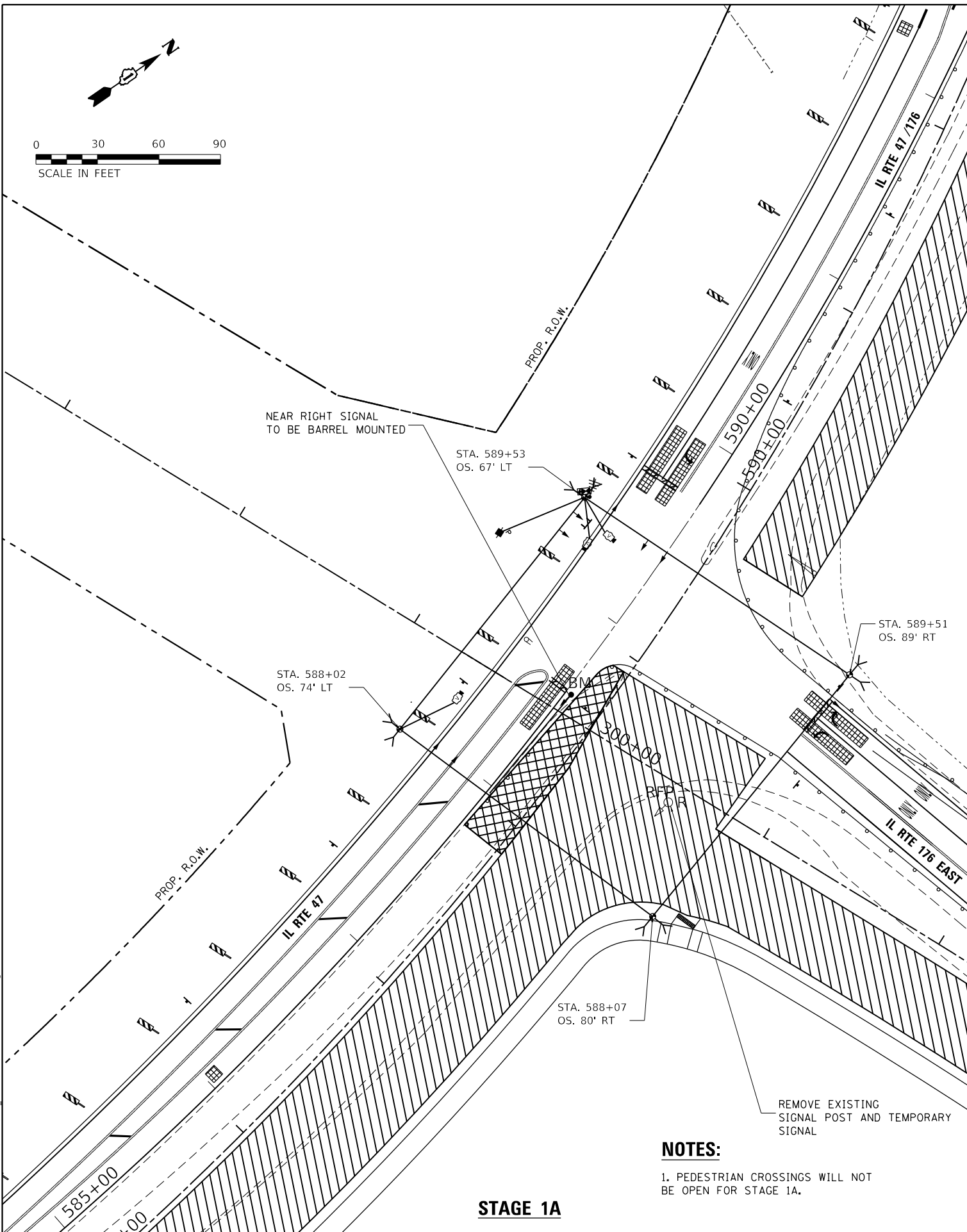
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PLOT SCALE = 60.0000 ' / in.	DRAWN - DJW	REVISED -
PLOT DATE = 2/16/2024	CHECKED - SJG	REVISED -
	DATE - 12/15/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION (STAGE 1A AND STAGE 1B)
IL ROUTE 47 AND IL ROUTE 176 (S. JUNCTION)/PLEASANT VALLEY ROAD

SCALE: 1" = 30' SHEET OF SHEETS STA. 583+00.00 TO STA. 596+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105-N-2(15)	MCHENRY	803	505
			CONTRACT NO. 62B43	
ILLINOIS FED. AID PROJECT				

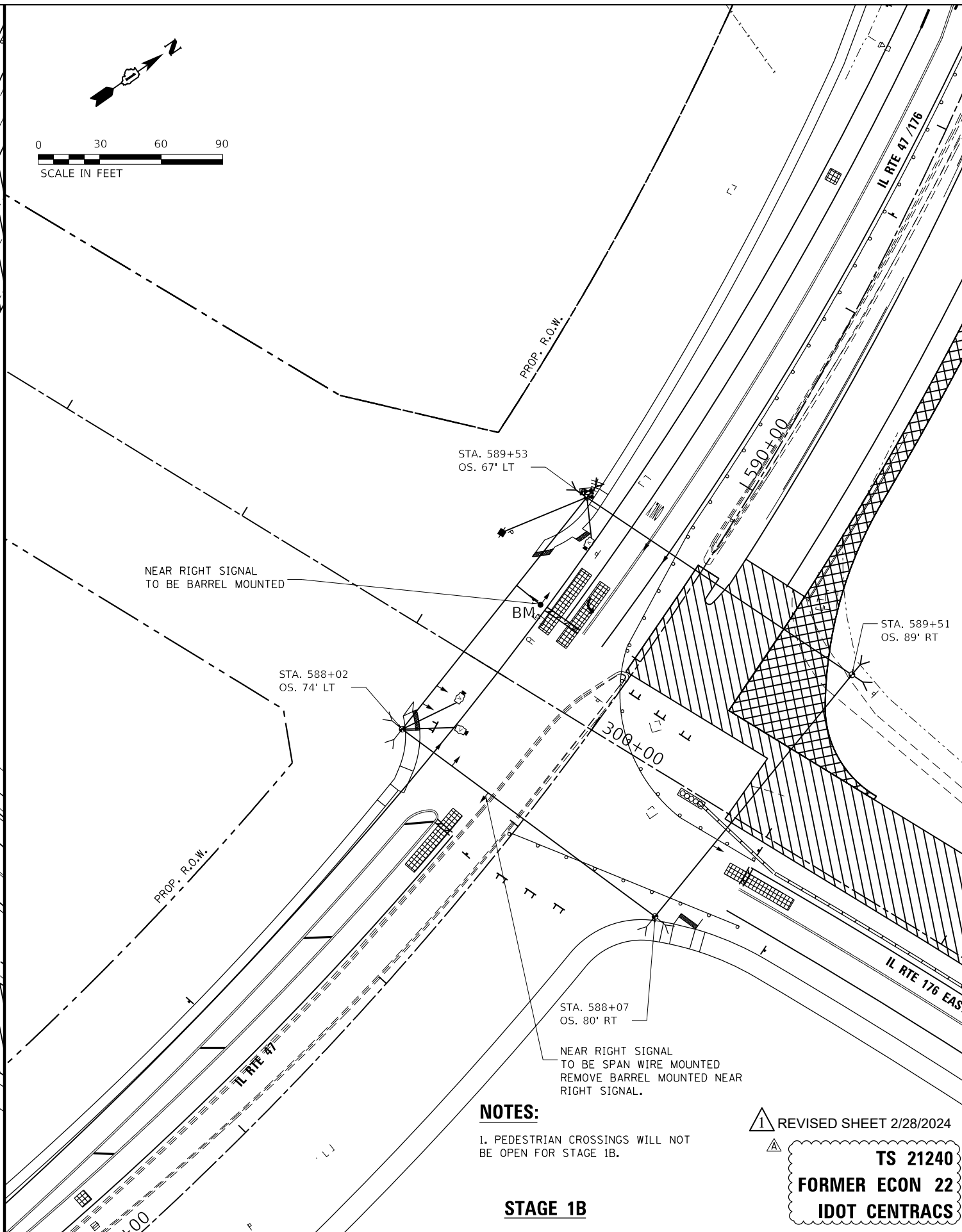


STAGE 1A

NOTES:

- PEDESTRIAN CROSSINGS WILL NOT BE OPEN FOR STAGE 1A.

REMOVE EXISTING SIGNAL POST AND TEMPORARY SIGNAL



STAGE 1B

NOTES:

- PEDESTRIAN CROSSINGS WILL NOT BE OPEN FOR STAGE 1B.

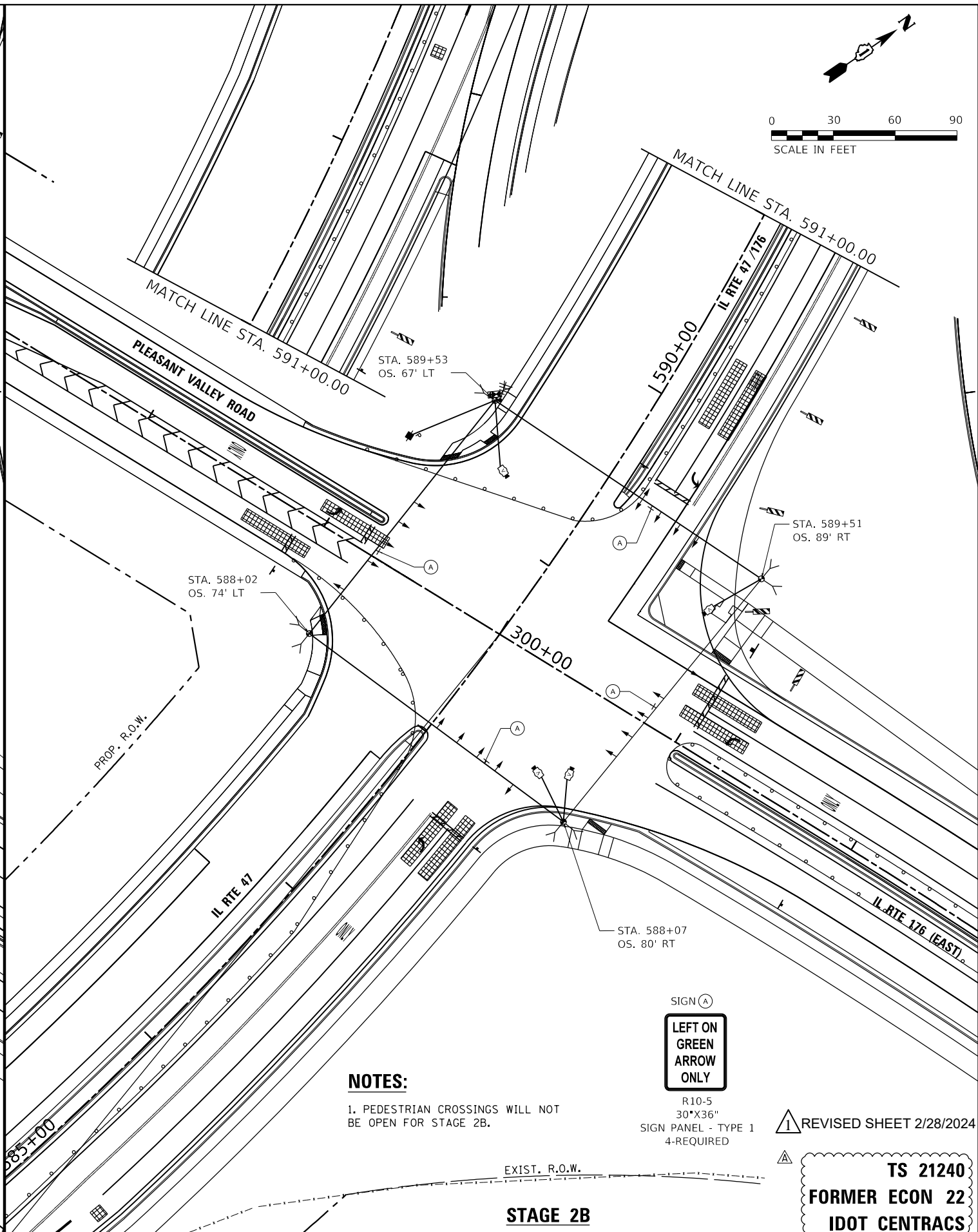
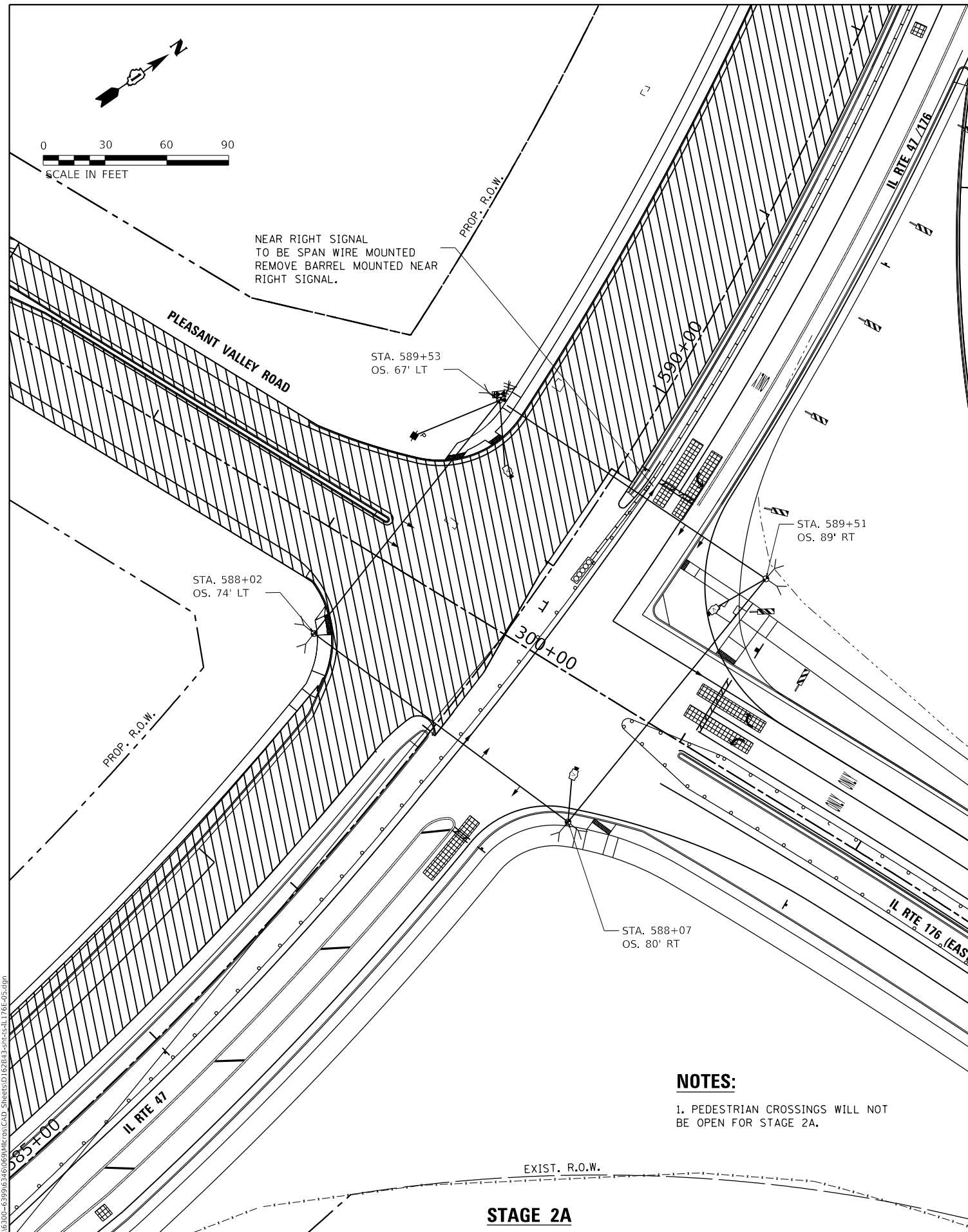
NEAR RIGHT SIGNAL TO BE SPAN WIRE MOUNTED REMOVE BARREL MOUNTED NEAR RIGHT SIGNAL.

REVISOR: [Symbol] REVISED SHEET 2/28/2024

TS 21240
FORMER ECON 22
IDOT CENTRACS



NEAR RIGHT SIGNAL
TO BE SPAN WIRE MOUNTED
REMOVE BARREL MOUNTED NEAR
RIGHT SIGNAL.



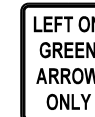
NOTES:

- 1. PEDESTRIAN CROSSINGS WILL NOT BE OPEN FOR STAGE 2A.

NOTES:

- 1. PEDESTRIAN CROSSINGS WILL NOT BE OPEN FOR STAGE 2B.

SIGN (A)



R10-5
30"X36"
SIGN PANEL - TYPE 1
4-REQUIRED

REVISOR: [Symbol] REVISED SHEET 2/28/2024

TS 21240
FORMER ECON 22
IDOT CENTRACS

TS SHT NO. 12

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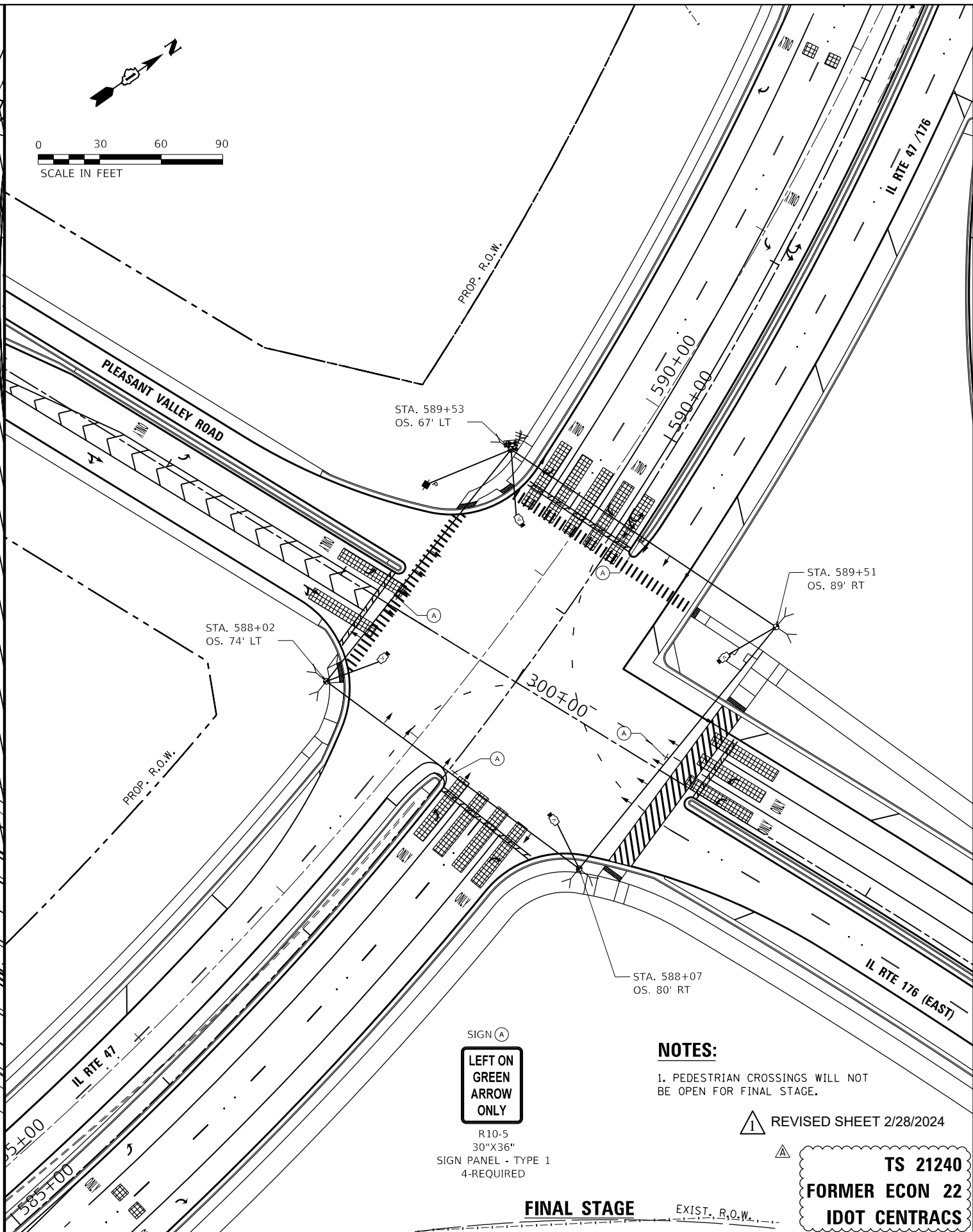
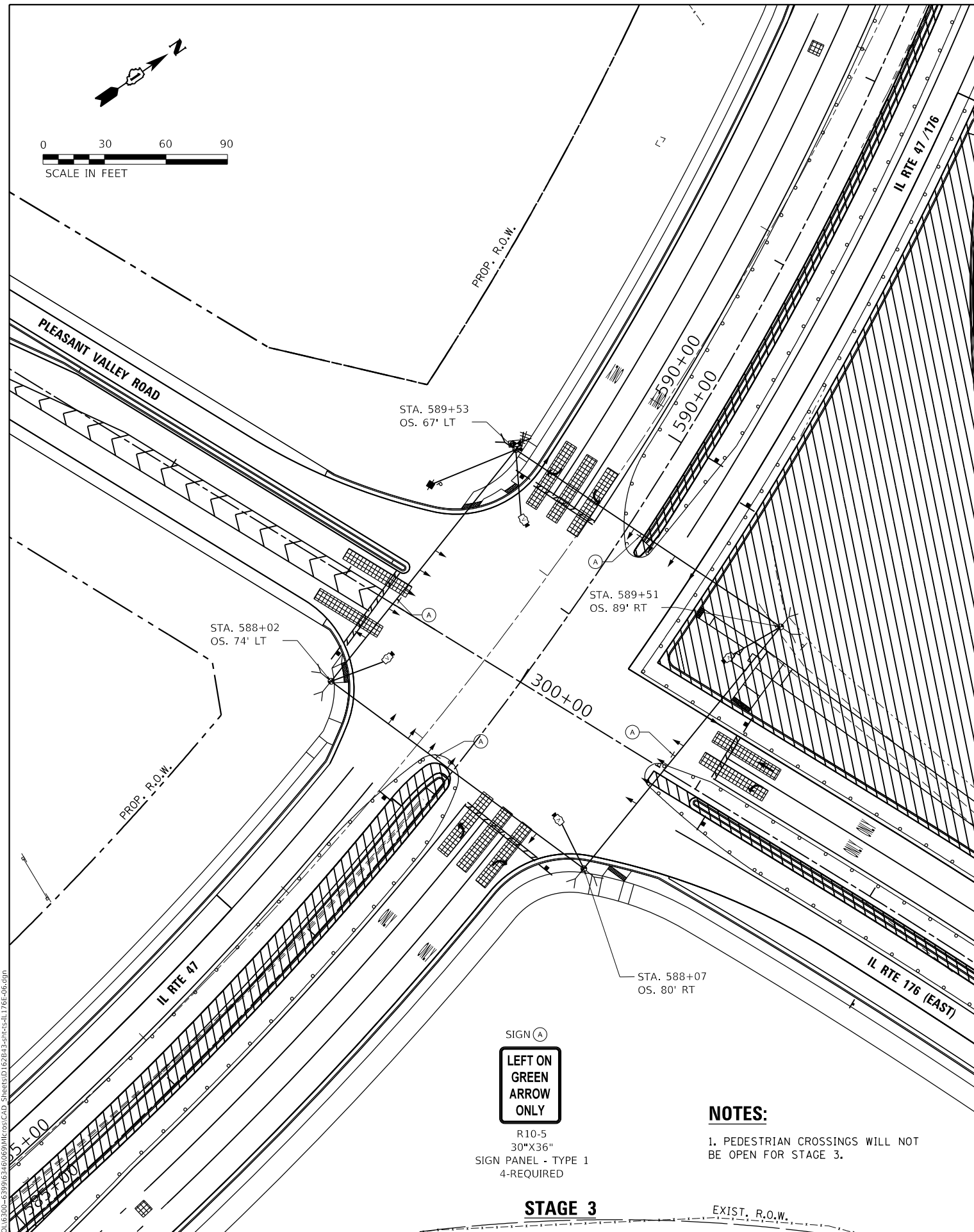
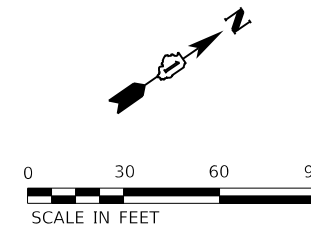
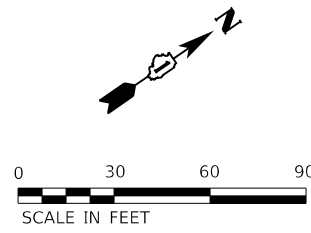
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PLOT DATE = 2/16/2024	CHECKED - SJG	REVISED -
	DATE - 12/15/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION (STAGE 2A AND STAGE 2B)
IL ROUTE 47 AND IL ROUTE 176 (S. JUNCTION)/PLEASANT VALLEY ROAD

SCALE: 1" = 30' SHEET 4 OF 11 SHEETS STA. 583+00.00 TO STA. 596+00.00

F.A.P. RTE. 326	SECTION 105-N-2(15)	COUNTY MCHENRY	TOTAL SHEETS 803	SHEET NO. 506
ILLINOIS			FED. AID PROJECT	



SIGN (A)
LEFT ON GREEN ARROW ONLY
 R10-5
 30"X36"
 SIGN PANEL - TYPE 1
 4-REQUIRED

SIGN (A)
LEFT ON GREEN ARROW ONLY
 R10-5
 30"X36"
 SIGN PANEL - TYPE 1
 4-REQUIRED

NOTES:

1. PEDESTRIAN CROSSINGS WILL NOT BE OPEN FOR STAGE 3.

NOTES:

1. PEDESTRIAN CROSSINGS WILL NOT BE OPEN FOR FINAL STAGE.

REVISD SHEET 2/28/2024

STAGE 3

FINAL STAGE

TS 21240
FORMER ECON 22
IDOT CENTRACS

TS SHT NO. 13

MODEL: D:\m\1170\1170_SOUTH_HOUBOLT_ROAD\1170_SOUTH_HOUBOLT_ROAD.dwg
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 PLOT DATE: 2/16/2024



USER NAME = StevenB	DESIGNED - MAG	REVISED - 2/23/2024
PLOT SCALE = 60.0000 ' / in.	DRAWN - DJW	REVISED -
PLOT DATE = 2/16/2024	CHECKED - SIG	REVISED -
	DATE - 12/15/2023	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION (STAGE 3 AND FINAL STAGE)
 IL ROUTE 47 AND IL ROUTE 176 (S. JUNCTION)/PLEASANT VALLEY ROAD
 SCALE: 1" = 30' SHEET 5 OF 11 SHEETS STA. 583+00.00 TO STA. 596+00.00

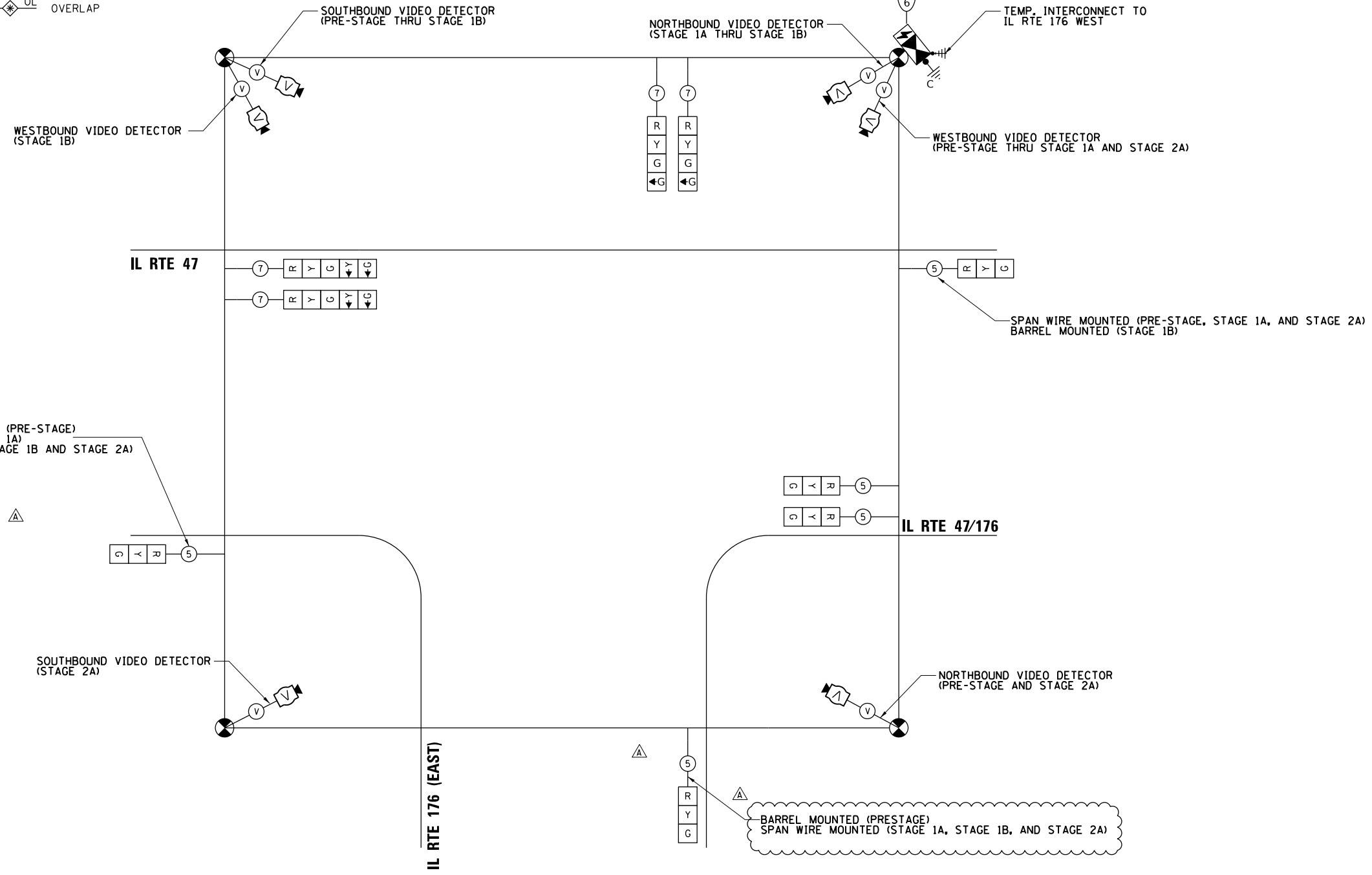
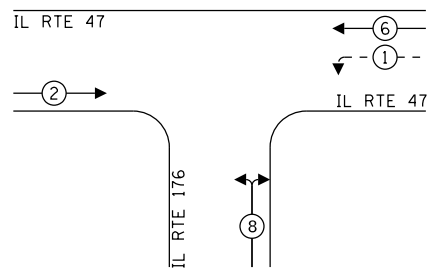
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105-N-2(15)	MCHENRY	803	507
CONTRACT NO. 62B43				
ILLINOIS FED. AID PROJECT				

TEMPORARY CONTROLLER SEQUENCE



LEGEND:

- ← ⊙ → PROTECTED PHASE
- ← ⊙ - PROTECTED/PERMITTED PHASE
- ← ⊙ → PEDESTRIAN PHASE
- ← ⊙ OL OVERLAP



EXISTING POST MOUNTED (PRE-STAGE)
BARREL MOUNTED (STAGE 1A)
SPAN WIRE MOUNTED (STAGE 1B AND STAGE 2A)

**TRAFFIC SIGNAL
ELECTRIC SERVICE REQUIREMENTS**

TYPE	QUANTITY	UNIT	TOTAL WATTAGE
SIGNAL HEAD 3-SECTION	5	11	55
4-SECTION	2	14	28
5-SECTION	2	13	26
PROGRAMMABLE SIGNALS			
3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PED. SIGNAL			
CONTROLLER	1	150	150
MASTER CONTROLLER	1	100	100
UPS	1	25	25
DETECTION RADAR	-	20	-
VIDEO	4	20	120
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING			505
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING			1110

ENERGY COSTS TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAY/DISTRICT 1
201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY: CONTACT: GENEVA MORROW
PHONE: (847) 608-2371
COMPANY: COMMONWEALTH EDISON

TEMPORARY CABLE PLAN
(NOT TO SCALE)

BARREL MOUNTED (PRESTAGE)
SPAN WIRE MOUNTED (STAGE 1A, STAGE 1B, AND STAGE 2A)

REVISD SHEET 2/28/2024

TS 21240
FORMER ECON 22
IDOT CENTRACS

TS SHT NO. 14



1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

USER NAME = StevenB	DESIGNED - MAG	REVISED - 2/23/2024
PLOT SCALE = 20.0000 "/td> <td>DRAWN - DJW</td> <td>REVISD -</td>	DRAWN - DJW	REVISD -
PLOT DATE = 2/16/2024	CHECKED - SIG	REVISD -
	DATE - 12/15/2023	REVISD -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN AND PHASE DESIGNATION
DIAGRAM (PRE-STAGE TO STAGE 2A)
IL ROUTE 47 AND IL ROUTE 176 (S. JUNCTION)/PLEASANT VALLEY ROAD

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105-N-2(15)	MCHENRY	803	508
CONTRACT NO. 62B43				

SCALE: SHEET 6 OF 11 SHEETS STA. TO STA.

ILLINOIS FED. AID PROJECT

TS SHT NO. 16

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STRAND ASSOCIATES
 1170 SOUTH HOUBOLT ROAD
 JULIET, ILLINOIS 60431
 (815) 744-4200

USER NAME = alexam	DESIGNED - MAG	REVISED - A 2/23/2024
PLOT SCALE = 40,0000 ' / in.	DRAWN - DJW	REVISED -
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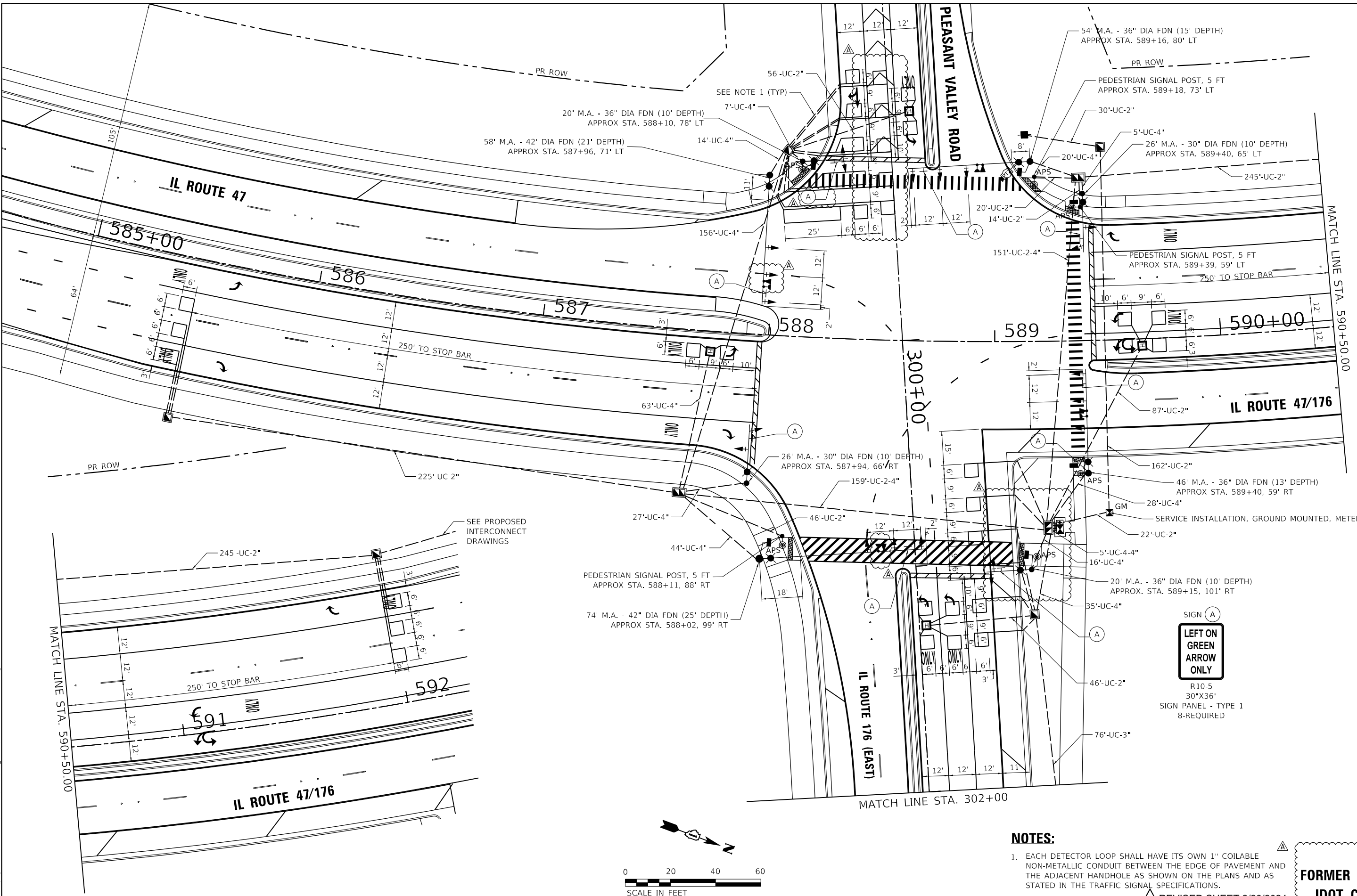
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**



**TRAFFIC SIGNAL MODERNIZATION PLAN
 IL ROUTE 47 AND IL ROUTE 176 (S. JUNCTION)/PLEASANT VALLEY ROAD**

SCALE: 1" = 20' SHEET 8 OF 11 SHEETS STA. TO STA.

F.A.P. RTE. 326	SECTION 105-N-2(15)	COUNTY MCHENRY	TOTAL SHEETS 803	SHEET NO. 510
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62B43	



SIGN A
**LEFT ON GREEN
 ARROW
 ONLY**
 R10-5
 30"X36"
 SIGN PANEL - TYPE 1
 8-REQUIRED

NOTES:

- 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.

REVISED SHEET 2/28/2024

**TS 21240
 FORMER ECON 22
 IDOT CENTRACS**

TS SHT NO. 16

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STRAND ASSOCIATES
 1170 SOUTH HOUBOLT ROAD
 JULIET, ILLINOIS 60431
 (815) 744-4200

USER NAME = alexam	DESIGNED - MAG	REVISED - A 2/23/2024
PLOT SCALE = 40,0000 "/in.	DRAWN - DJW	REVISED -
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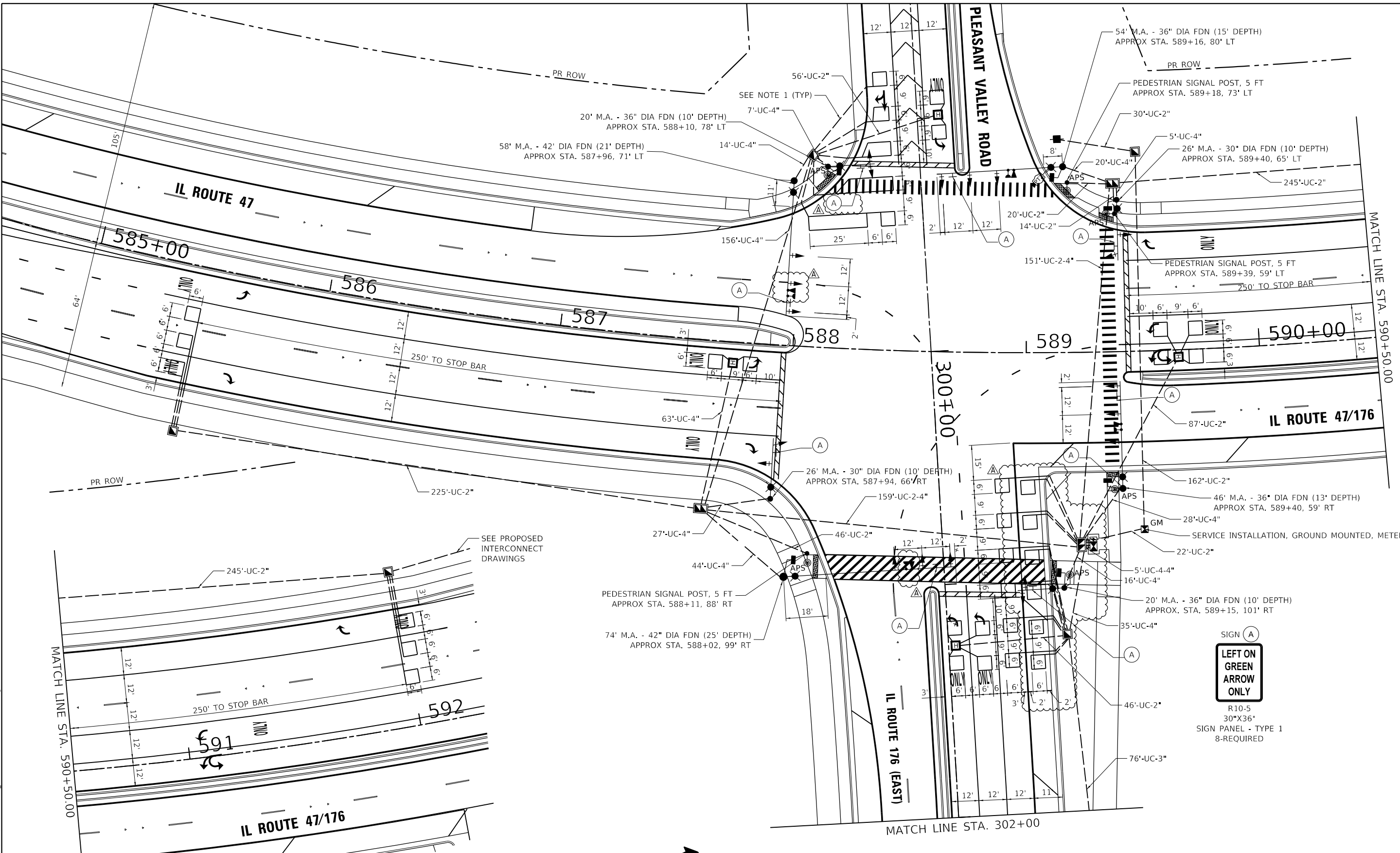
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**



**TRAFFIC SIGNAL MODERNIZATION PLAN
 IL ROUTE 47 AND IL ROUTE 176 (S. JUNCTION)/PLEASANT VALLEY ROAD**

SCALE: 1" = 20' SHEET 8 OF 11 SHEETS STA. TO STA.

F.A.P. RTE. 326	SECTION 105-N-2(15)	COUNTY MCHENRY	TOTAL SHEETS 803	SHEET NO. 510
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62B43	



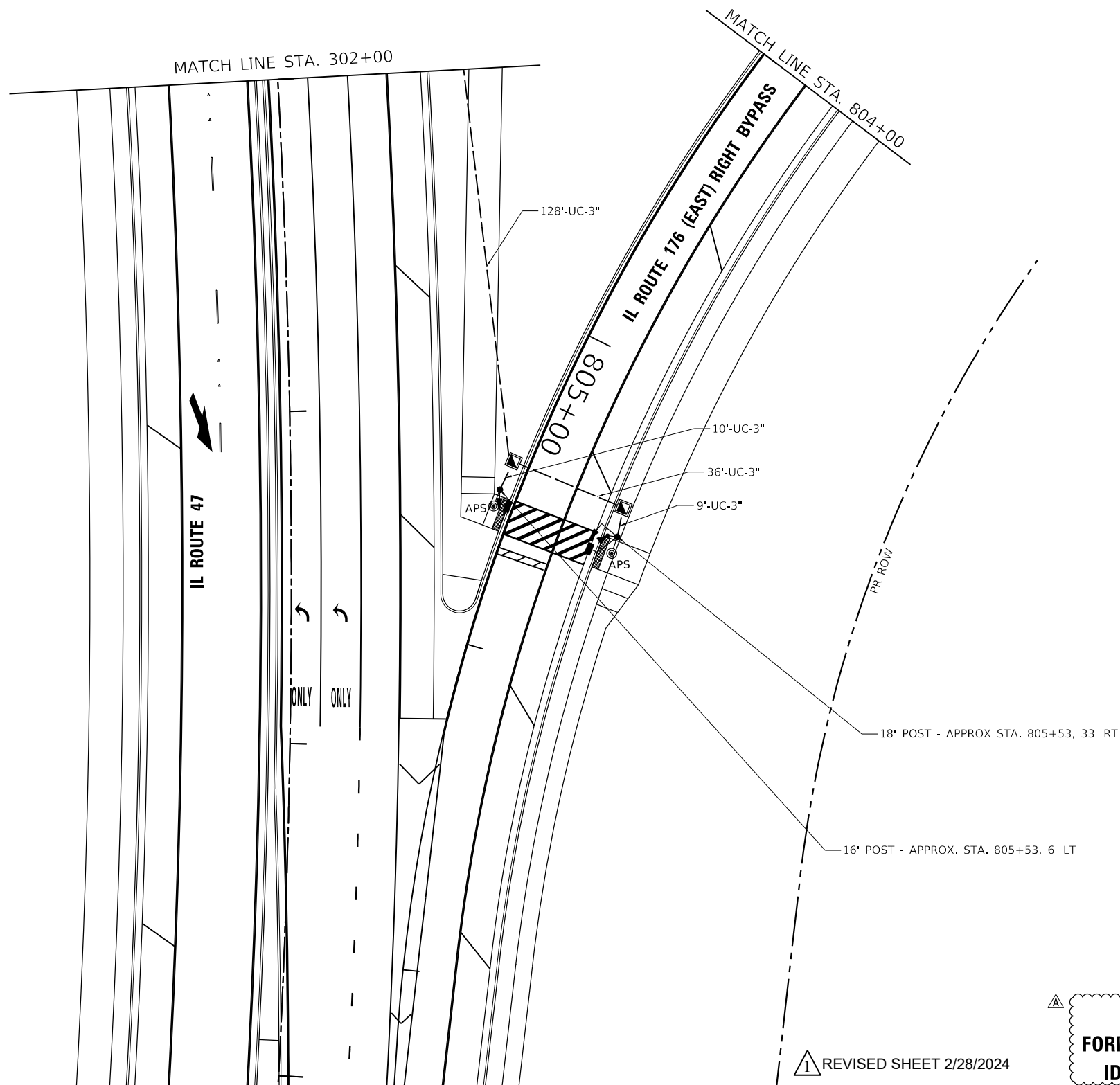
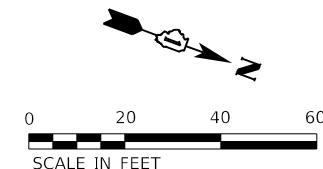
SIGN A
**LEFT ON GREEN
 ARROW
 ONLY**
 R10-5
 30"X36"
 SIGN PANEL - TYPE 1
 8-REQUIRED

NOTES:

- 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.

REVISED SHEET 2/28/2024

**TS 21240
 FORMER ECON 22
 IDOT CENTRACS**



TS SHT NO. 17

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PLOT SCALE = 40.0000 ' / in.	DATE - 12/15/2023	REVISED -
PLOT DATE = 2/16/2024		

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
 IL ROUTE 47 AND IL ROUTE 176 (S. JUNCTION)/PLEASANT VALLEY ROAD

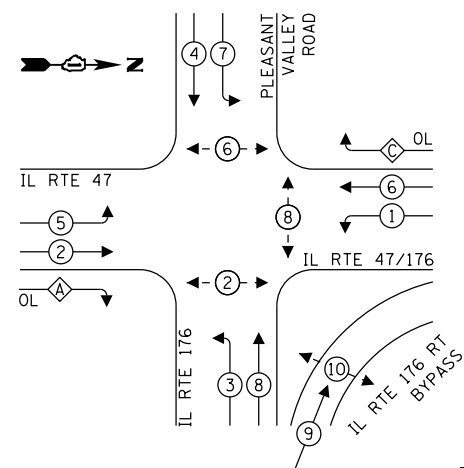
SCALE: 1" = 20' SHEET 9 OF 11 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105-N-2(15)	MCHENRY	803	511
CONTRACT NO. 62B43				
ILLINOIS FED. AID PROJECT				

1 REVISED SHEET 2/28/2024

TS 21240
 FORMER ECON 22
 IDOT CENTRACS

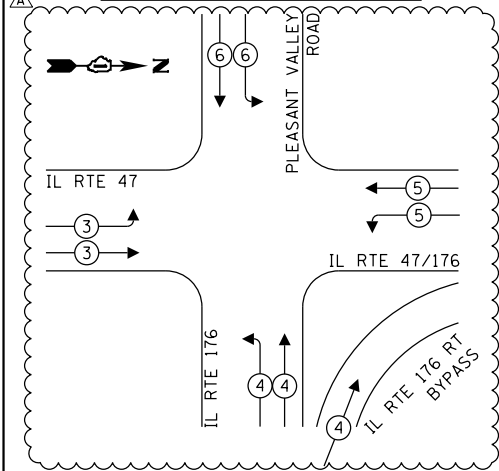
PROPOSED CONTROLLER SEQUENCE



LEGEND:

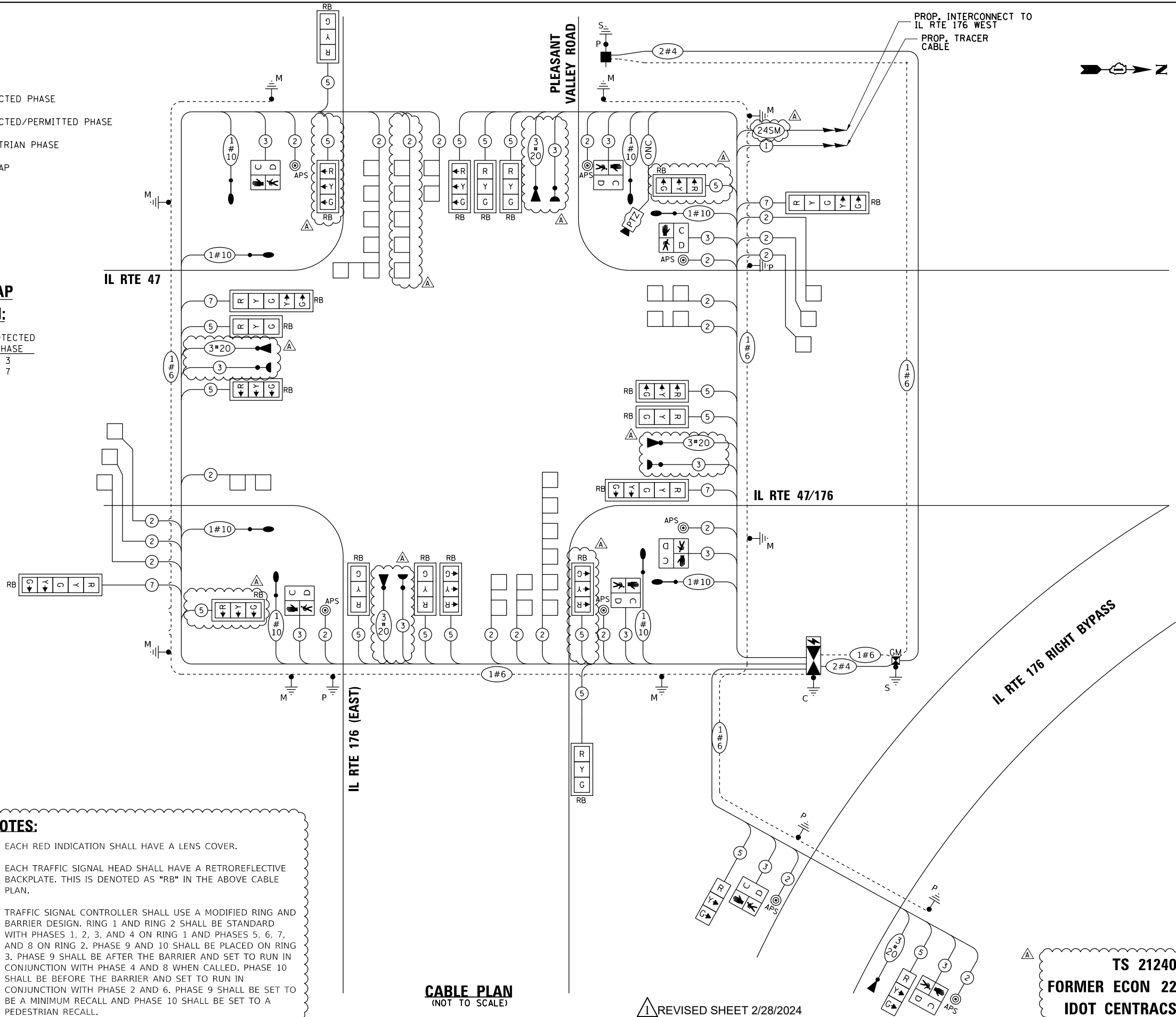
- ⊙ - PROTECTED PHASE
- ⊙ - PROTECTED/PERMITTED PHASE
- ⊙ - PEDESTRIAN PHASE
- ⊙ - OVERLAP

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	2	3
C	6	7



- NOTES:**
- EACH RED INDICATION SHALL HAVE A LENS COVER.
 - EACH TRAFFIC SIGNAL HEAD SHALL HAVE A RETROREFLECTIVE BACKPLATE. THIS IS DENOTED AS "RB" IN THE ABOVE CABLE PLAN.
 - TRAFFIC SIGNAL CONTROLLER SHALL USE A MODIFIED RING AND BARRIER DESIGN. RING 1 AND RING 2 SHALL BE STANDARD WITH PHASES 1, 2, 3, AND 4 ON RING 1 AND PHASES 5, 6, 7, AND 8 ON RING 2. PHASE 9 AND 10 SHALL BE PLACED ON RING 3. PHASE 9 SHALL BE AFTER THE BARRIER AND SET TO RUN IN CONJUNCTION WITH PHASE 4 AND 8 WHEN CALLED. PHASE 10 SHALL BE BEFORE THE BARRIER AND SET TO RUN IN CONJUNCTION WITH PHASE 2 AND 6. PHASE 9 SHALL BE SET TO BE A MINIMUM RECALL AND PHASE 10 SHALL BE SET TO A PEDESTRIAN RECALL.

TRAFFIC SIGNAL ELECTRIC SERVICE REQUIREMENTS

TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 3-SECTION	18	11	198
4-SECTION	-	14	-
5-SECTION	4	13	52
PROGRAMMABLE SIGNALS			
3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PED. SIGNAL CONTROLLER	8	15	120
MASTER CONTROLLER	1	150	150
UPS	-	100	-
DETECTION RADAR	1	25	25
VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	1	35	35
CELLULAR MODEM	1	15	15
TOTAL UPS SIZING			
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	8	240	1920
TOTAL SERVICE WIRE SIZING			
3120			

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAY/DISTRICT 1
 201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096
 ENERGY SUPPLY: CONTACT: GENEVA MORROW
 PHONE: (847) 608-2371
 COMPANY: COMMONWEALTH EDISON



USER NAME = alexam	DESIGNED - MAG	REVISED - 2/23/2024
PLOT SCALE = 20.0000" / in.	DRAWN - DJW	REVISED -
PLOT DATE = 2/27/2024	CHECKED - DWG	REVISED -
	DATE - 12/15/2023	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CABLE PLAN AND PHASE DESIGNATION DIAGRAM
 IL ROUTE 47 AT IL ROUTE 176 (S. JUNCTION)/PLEASANT VALLEY ROAD

SCALE: N.T.S. SHEET 10 OF 11 SHEETS STA. TO STA.

F.A.P. RTE. 326	SECTION 105-N-2(15)	COUNTY MCHENRY	TOTAL SHEETS 803	SHEET NO. 512
CONTRACT NO. 62B43				
ILLINOIS FED. AID PROJECT				

TS 21240
FORMER ECON 22
IDOT CENTRACS

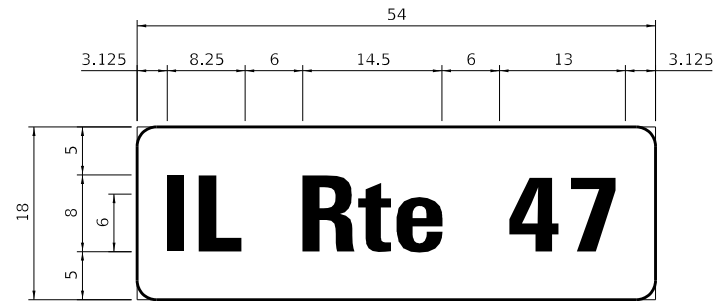
REVISED SHEET 2/28/2024

TS SHT NO. 18

MODEL: D:\m\1170 SOUTH HOUBOLT ROAD, JOLIET, ILLINOIS 60431, (815) 744-4200

SIGN PANEL – TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	6.75	1	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	12.5	2	ZZ	2

NOTE:
1. IDOT WILL PROVIDE CENTRACS LICENSE.

SCHEDULE OF QUANTITIES

SIGN PANEL - TYPE 1	SQ FT	14
SIGN PANEL - TYPE 2	SQ FT	25
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	513
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	247
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	1140
HANDHOLE	EACH	7
HEAVY-DUTY HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	3
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1933
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1606
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	6862
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1013
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2847
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 4 2C	FOOT	253
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	2256
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 20 FT.	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 26 FT.	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 46 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 54 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 58 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 74 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	EACH	12
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	40
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	28
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	46
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	16
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	20
INDUCTIVE LOOP DETECTOR	EACH	14
DETECTOR LOOP, TYPE 1	FOOT	1415
LIGHT DETECTOR	EACH	4
LIGHT DETECTOR AMPLIFIER	EACH	1
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	10
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	7
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	1106
CELLULAR MODEM	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	237
FULL-ACTUATED CONTROLLER AND TYPE SUPER R CABINET (SPECIAL)	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
PEDESTRIAN SIGNAL POST, 5 FT	EACH	3
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	12
LED SIGNAL FACE, LENS COVER	EACH	22
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

* 100% COST TO THE VILLAGE OF LAKEWOOD

TS 21240
FORMER ECON 22
IDOT CENTRACS

REVISED SHEET 2/28/2024

TS SHT NO. 19

MODEL: D:\m\1170\1170-00-03\99\1170-00-03\1170-00-03\CAD_Sheets\1170-00-03-1170-12.dgn



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DRAWN - DJW	CHECKED - SJG	REVISED -
PLOT SCALE = 40.0000 "/>		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES
IL ROUTE 47 AND IL ROUTE 176 (S. JUNCTION)/PLEASANT VALLEY ROAD

SCALE: 1"=20' SHEET 11 OF 11 SHEETS STA. 583+00.00 TO STA. 596+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105-N-2(15)	MCHENRY	803	513
CONTRACT NO. 62B43				
ILLINOIS FED. AID PROJECT				

REMOVAL AND RELOCATION NOTES:

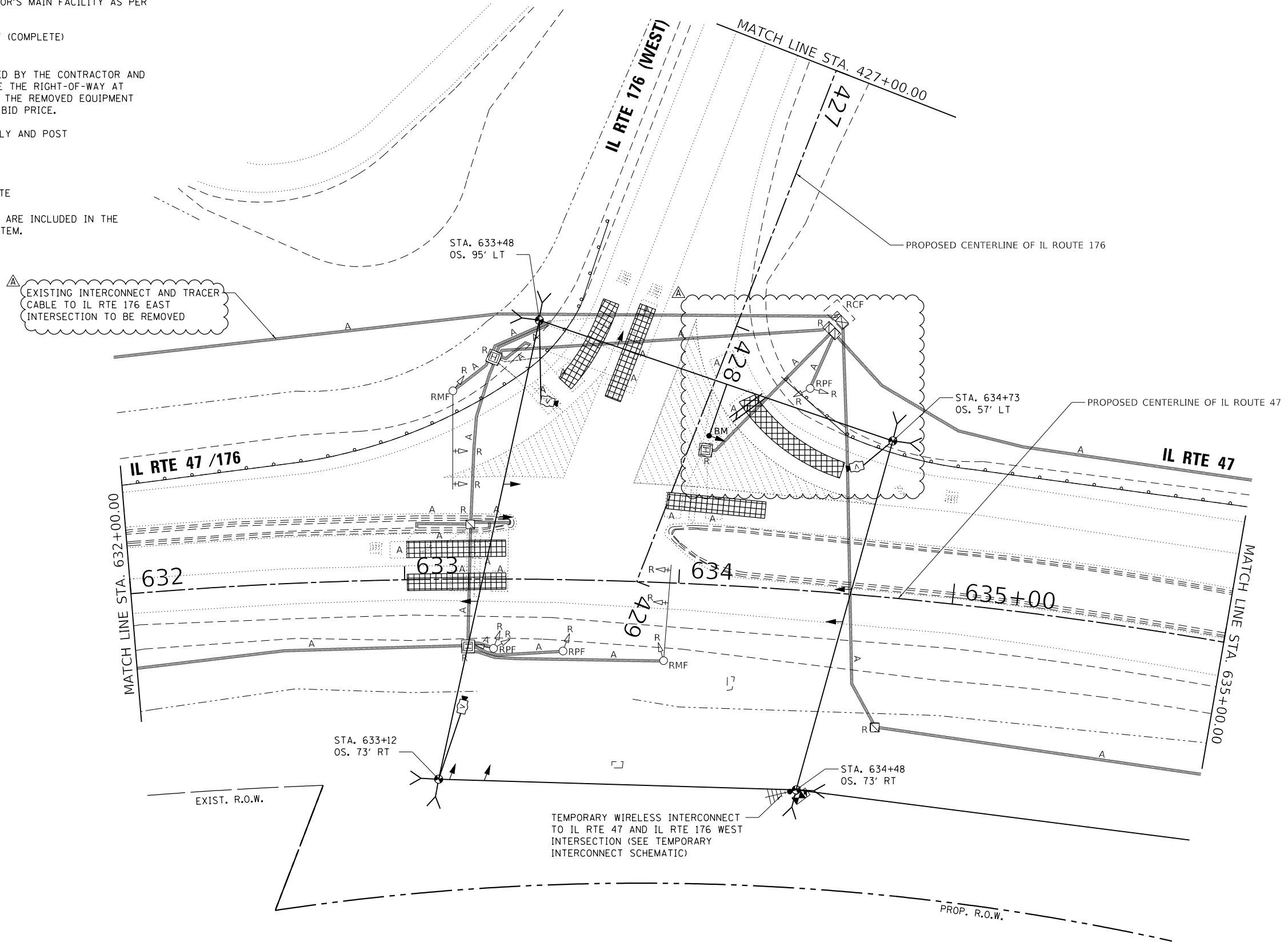
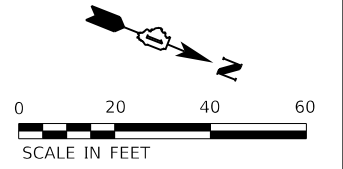
THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE STATE AND SHALL BE DELIVERED BY CONTRACTOR TO THE STATE'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR'S MAIN FACILITY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS:

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 1 EACH UPS

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 2 EACH STEEL MAST ARM ASSEMBLY AND POST
- 3 EACH TRAFFIC SIGNAL POST
- 8 EACH 3-SECTION SIGNAL HEAD
- 4 EACH 5-SECTION SIGNAL HEAD
- 1 EACH SERVICE INSTALLATION
- 4 EACH TRAFFIC SIGNAL BACKPLATE

ALL ITEMS LISTED IN THE ABOVE NOTES ARE INCLUDED IN THE REMOVE EXISTING TRAFFIC SIGNAL BID ITEM.



TS SHT NO. 19

MODEL: D:\m\1170\1170.dwg
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PROJECT: 1170\1170.dwg



USER NAME = alexam	DESIGNED - MAG	REVISED - 2/23/2024
DRAWN - DJW	CHECKED - SJG	REVISED -
PLOT SCALE = 40.0000' / in.	DATE - 12/15/2023	REVISED -
PLOT DATE = 2/26/2024		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

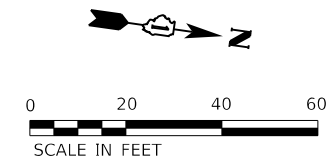
TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN (PRE-STAGE) AND
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN (SHEET 1 OF 2)
IL ROUTE 47 AND IL ROUTE 176 (N. JUNCTION)

SCALE: 1"=20' SHEET 1 OF 10 SHEETS STA. 583+00.00 TO STA. 596+00.00

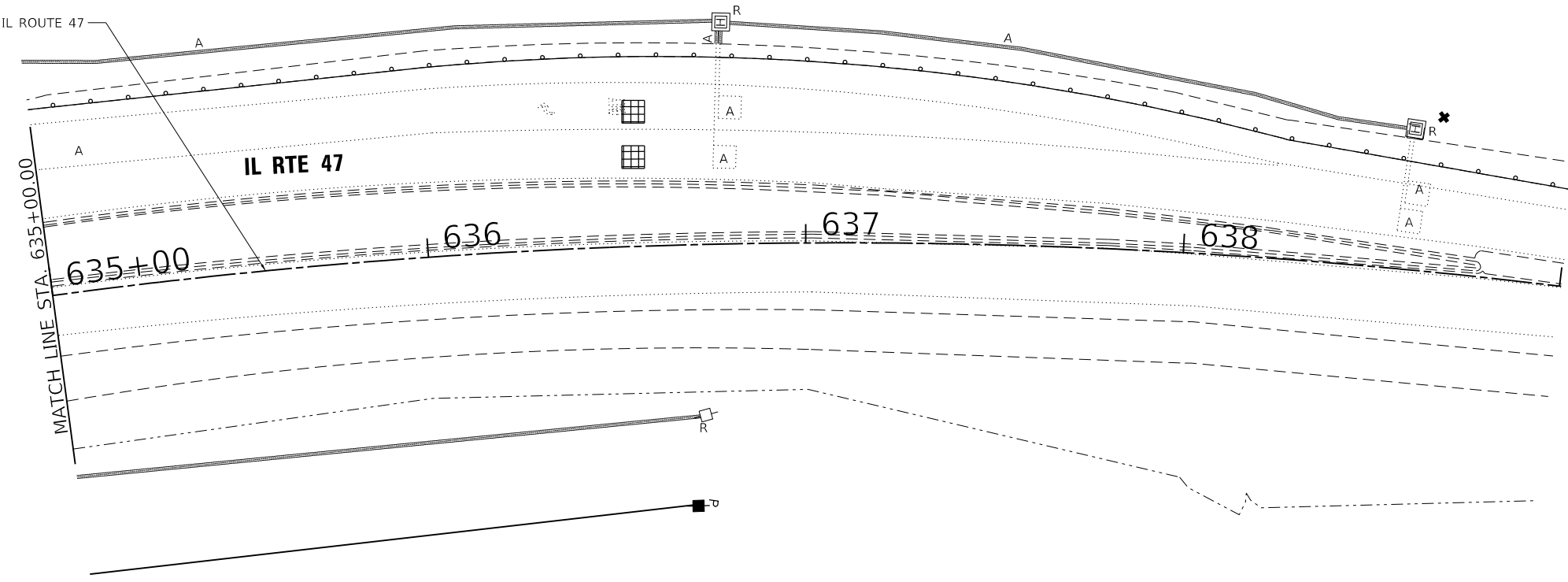
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105-N-2(15)	MCHENRY	803	514
			CONTRACT NO. 62B43	
ILLINOIS FED. AID PROJECT				

REVISOR SHEET 2/28/2024

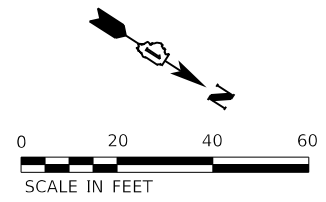
TS 21241
FORMER ECON 22
IDOT CENTRACS



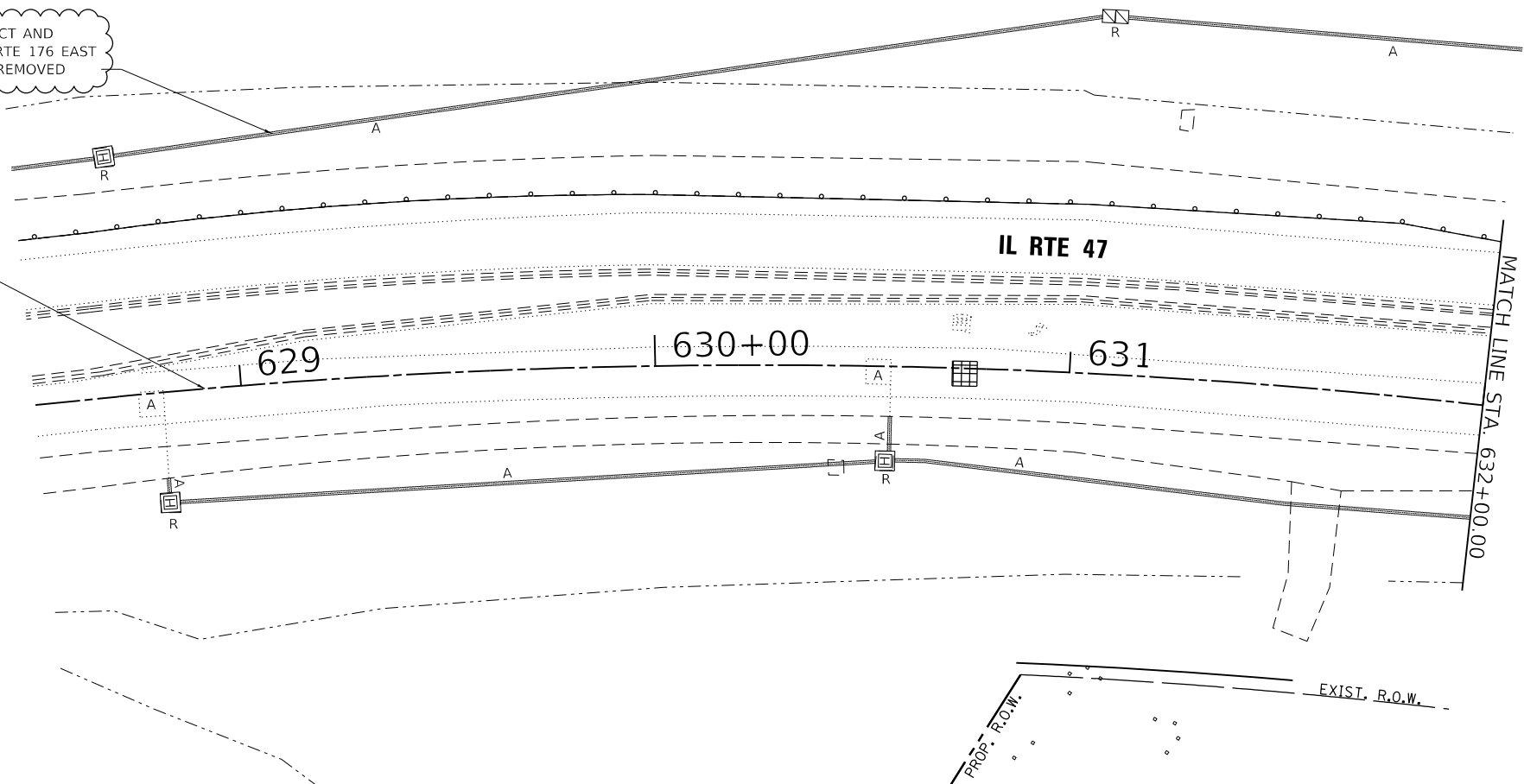
PROPOSED CENTERLINE OF IL ROUTE 47



EXISTING INTERCONNECT AND TRACER CABLE TO IL RTE 176 EAST INTERSECTION TO BE REMOVED



PROPOSED CENTERLINE OF IL ROUTE 47



TS 21241
FORMER ECON 22
IDOT CENTRACS

REVISI^oN SHEET 2/28/2024

TS SHT NO. 21

MODEL: D:\4611...
FILE NAME: S:\01\16300-6399\16300\06\06\06\CAD_Sheet\16300-6399-16300-06.dwg

USER NAME = alexam	DESIGNED - MAG	REVISED - 2/23/2024
DRAWN - DJW	CHECKED - SJG	REVISED -
PLOT SCALE = 40.0000' / in.	DATE - 12/15/2023	REVISED -
PLOT DATE = 2/26/2024		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN (PRE-STAGE) AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN (SHEET 2 OF 2)
IL ROUTE 47 AND IL ROUTE 176 (N. JUNCTION)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105-N-2(15)	MCHENRY	803	515
			CONTRACT NO. 62B43	
ILLINOIS FED. AID PROJECT				

SCALE: 1"=20' SHEET 2 OF 10 SHEETS STA. N/A TO STA. N/A

TS SHT NO. 22

MODEL: Default
 FILE NAME: \\p010101\projects\1016700-63799\6340\6399\MK\CA\CD_Sheets\162813-21-24-LL176W_04.dgn



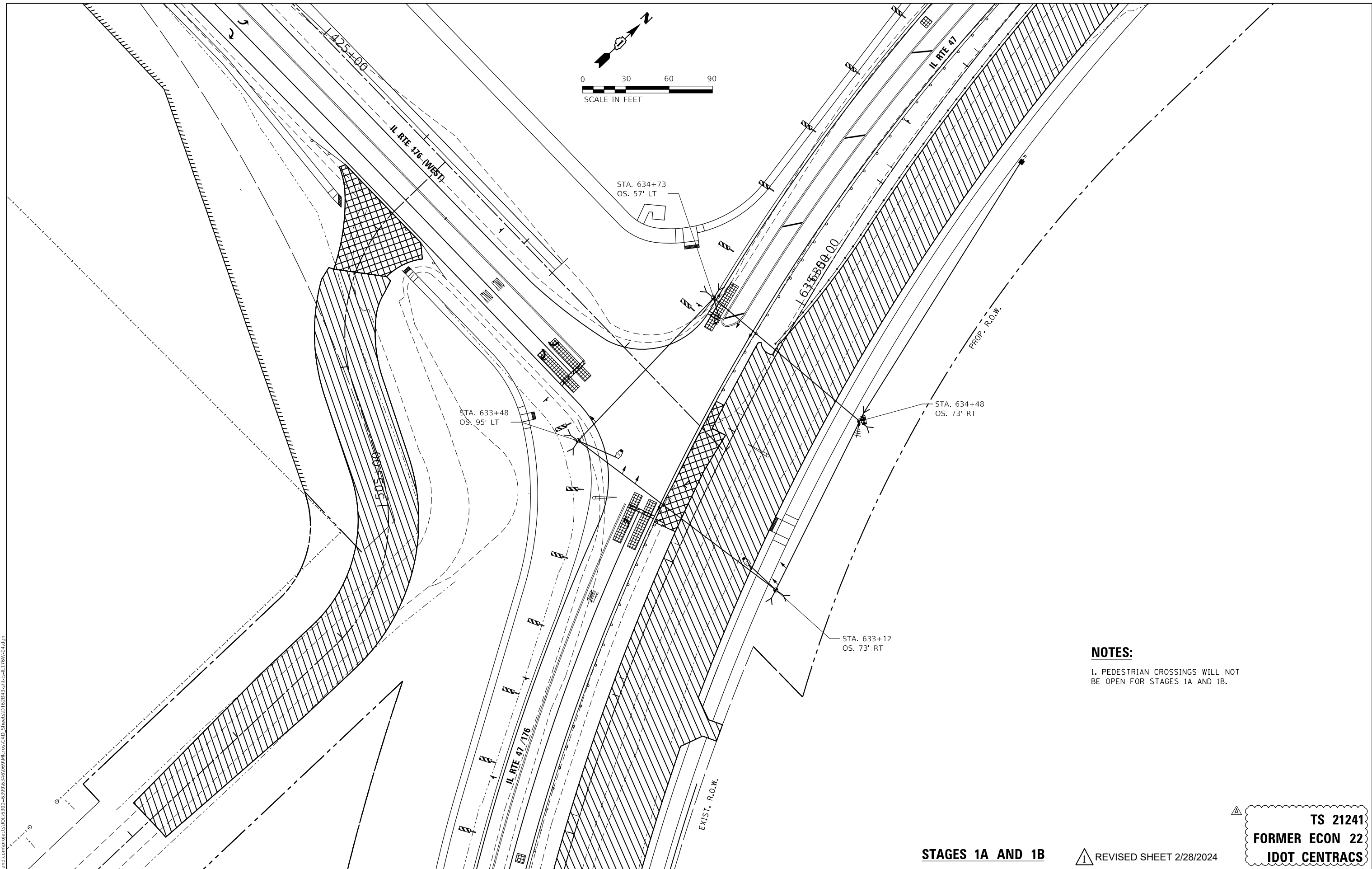
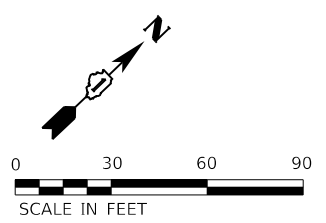
USER NAME = StevenB	DESIGNED - MAG	REVISED - A 2/23/2024
DRAWN - DJW	CHECKED - SJG	REVISED -
PLOT SCALE = 60.0000 ' / in.	DATE - 12/15/2023	REVISED -
PLOT DATE = 2/16/2024		

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION (STAGE 1A AND STAGE 1B)
 IL ROUTE 47 AND IL ROUTE 176 (N. JUNCTION)

SCALE: 1" = 30' SHEET 3 OF 10 SHEETS STA. 583+00.00 TO STA. 596+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105-N-2(15)	MCHENRY	803	516
			CONTRACT NO. 62B43	
			ILLINOIS FED. AID PROJECT	



NOTES:
 1. PEDESTRIAN CROSSINGS WILL NOT BE OPEN FOR STAGES 1A AND 1B.

STAGES 1A AND 1B REVISED SHEET 2/28/2024

TS 21241
FORMER ECON 22
IDOT CENTRACS

TS SHT NO. 23

MODEL: D:\m\1170 SOUTH HOUBOLT ROAD\1170SHT23.dwg
 FILE NAME: S:\01\62300-63900\6348\62B43\62B43-23.dwg
 PROJECT: 1170 SOUTH HOUBOLT ROAD, JOLIET, ILLINOIS 60431



USER NAME	= StevenB
DESIGNED	- MAG
DRAWN	- DJW
CHECKED	- SJG
DATE	- 12/15/2023
REVISIONS	
1	2/23/2024
2	
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STAGE 2A

NOTES:

- 1. PEDESTRIAN CROSSINGS WILL NOT BE OPEN FOR STAGE 2A.

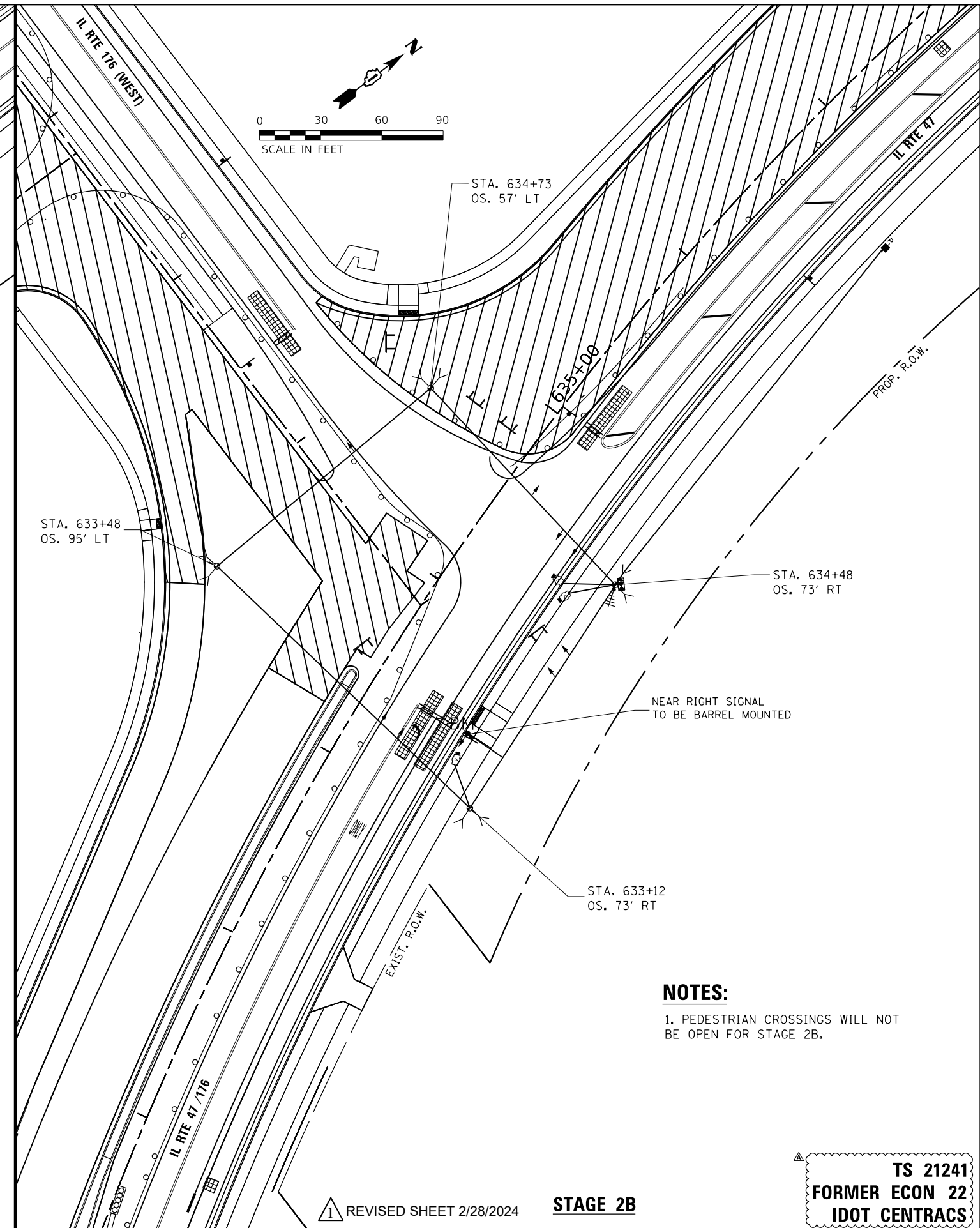
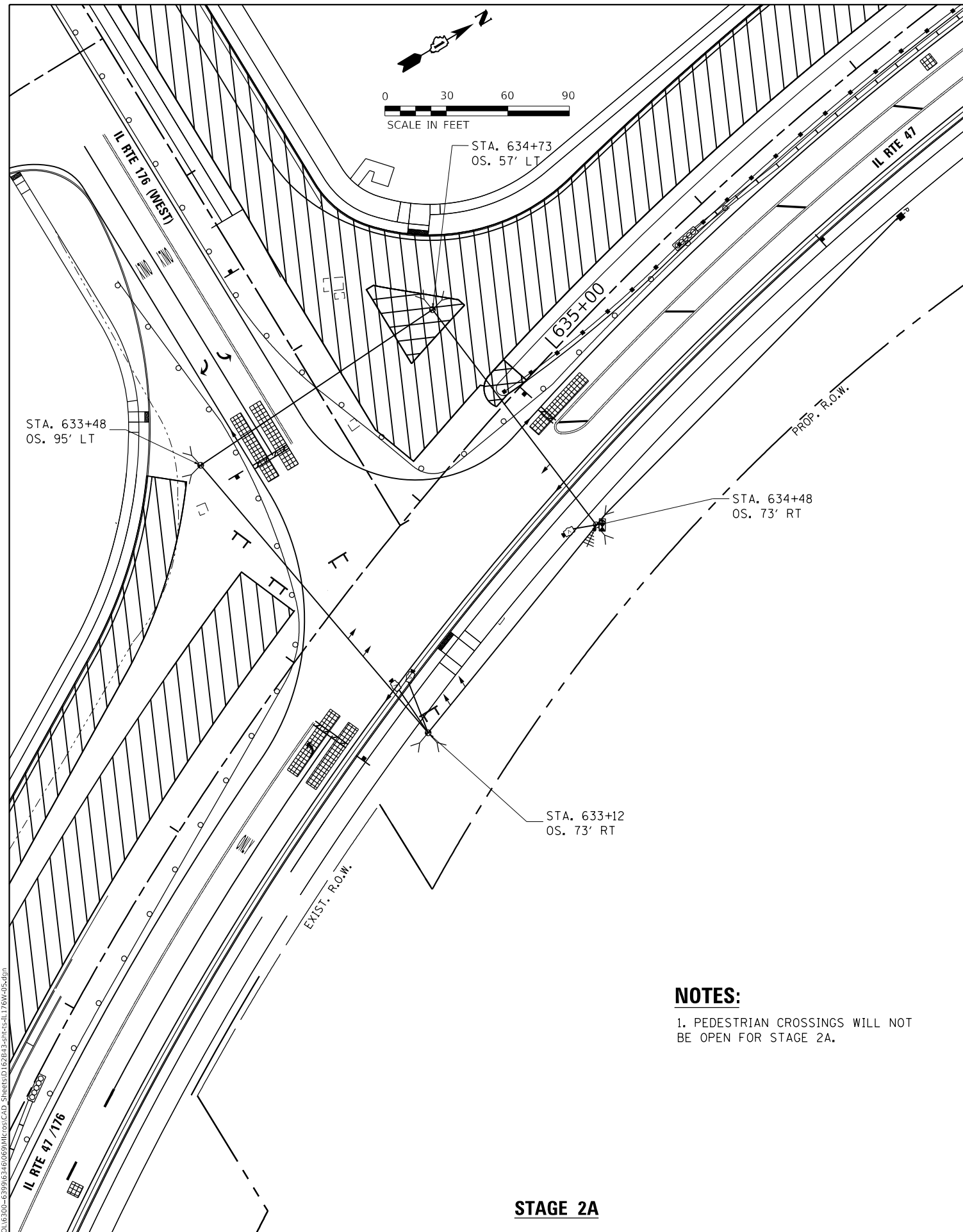
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION (STAGE 2A AND STAGE 2B)
 IL ROUTE 47 AND IL ROUTE 176 (N. JUNCTION)

SCALE: 1" = 30' SHEET 4 OF 10 SHEETS STA. 583+00.00 TO STA. 596+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105-N-2(15)	MCHENRY	803	517
			CONTRACT NO. 62B43	
ILLINOIS FED. AID PROJECT				

TS 21241
 FORMER ECON 22
 IDOT CENTRACS



STAGE 2B

REVISOR'S MARK

TS SHT NO. 24

MODEL: D:\m\1170\1170.dwg
FILE NAME: S:\01\1170\1170.dwg
PROJECT: 1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200



USER NAME = StevenB
DESIGNED - MAG
DRAWN - DJW
CHECKED - SJG
DATE - 12/15/2023
PLOT SCALE = 60.0000 "/in.
PLOT DATE = 2/16/2024

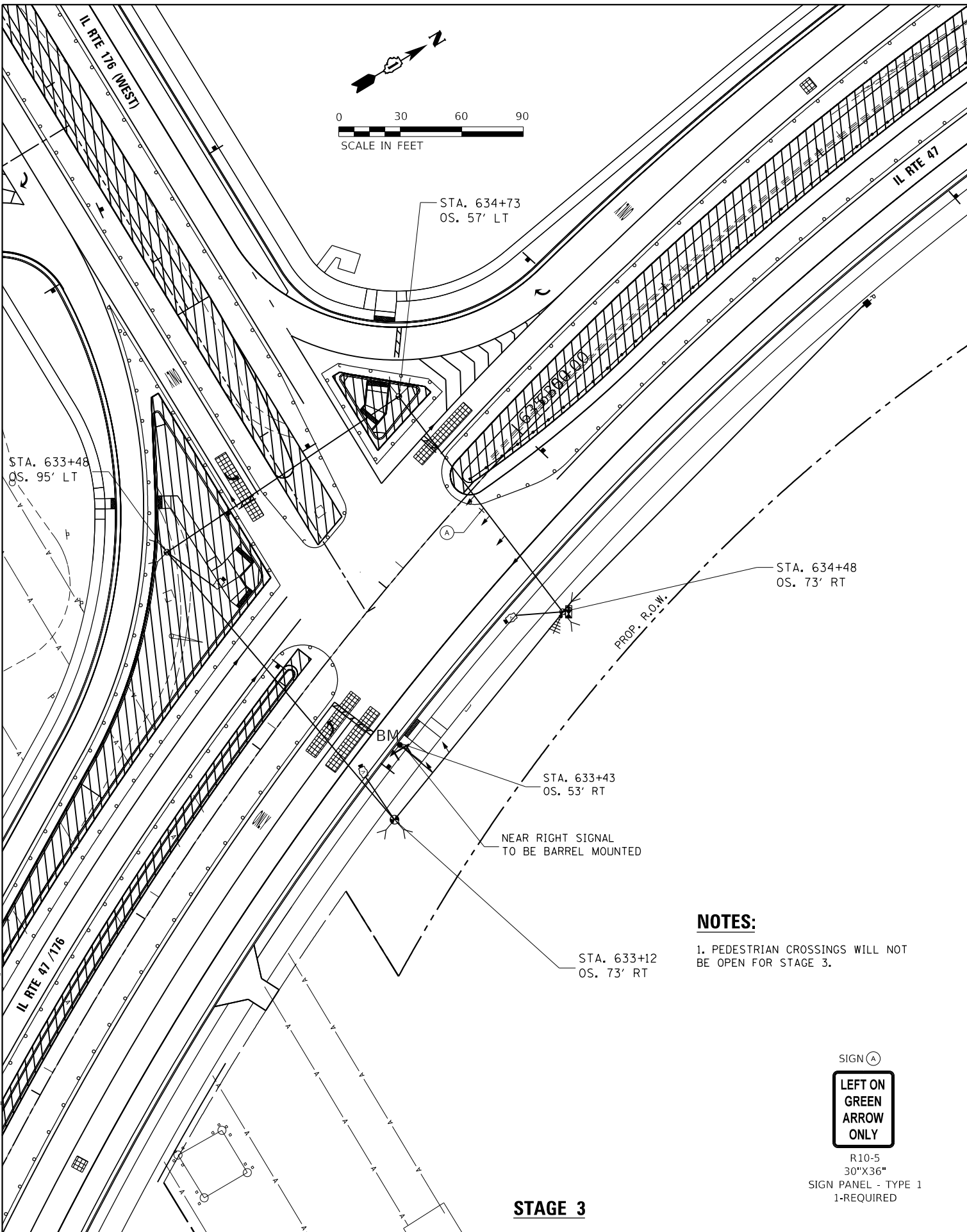
REVISIONS
REVISED - 2/23/2024
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION (STAGE 3 AND FINAL STAGE)
IL ROUTE 47 AND IL ROUTE 176 (N. JUNCTION)

SCALE: 1" = 30' SHEET 5 OF 10 SHEETS STA. 583+00.00 TO STA. 596+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105-N-2(15)	MCHENRY	803	518
CONTRACT NO. 62B43				
ILLINOIS FED. AID PROJECT				



STAGE 3

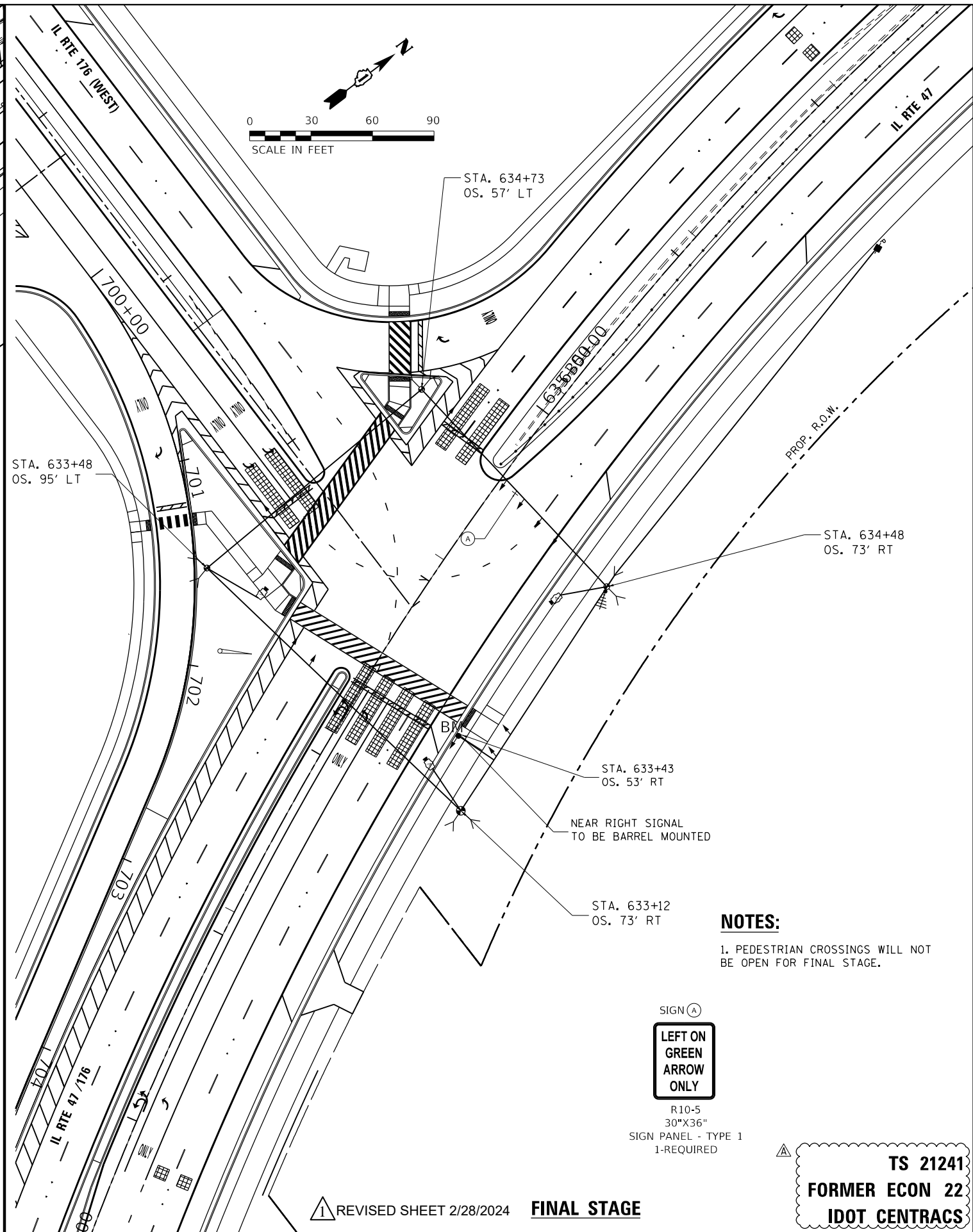
NOTES:

1. PEDESTRIAN CROSSINGS WILL NOT BE OPEN FOR STAGE 3.

SIGN (A)



R10-5
30"X36"
SIGN PANEL - TYPE 1
1-REQUIRED



FINAL STAGE

NOTES:

1. PEDESTRIAN CROSSINGS WILL NOT BE OPEN FOR FINAL STAGE.

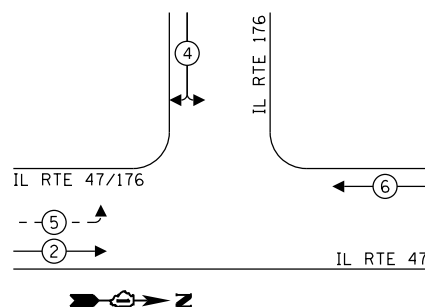
SIGN (A)



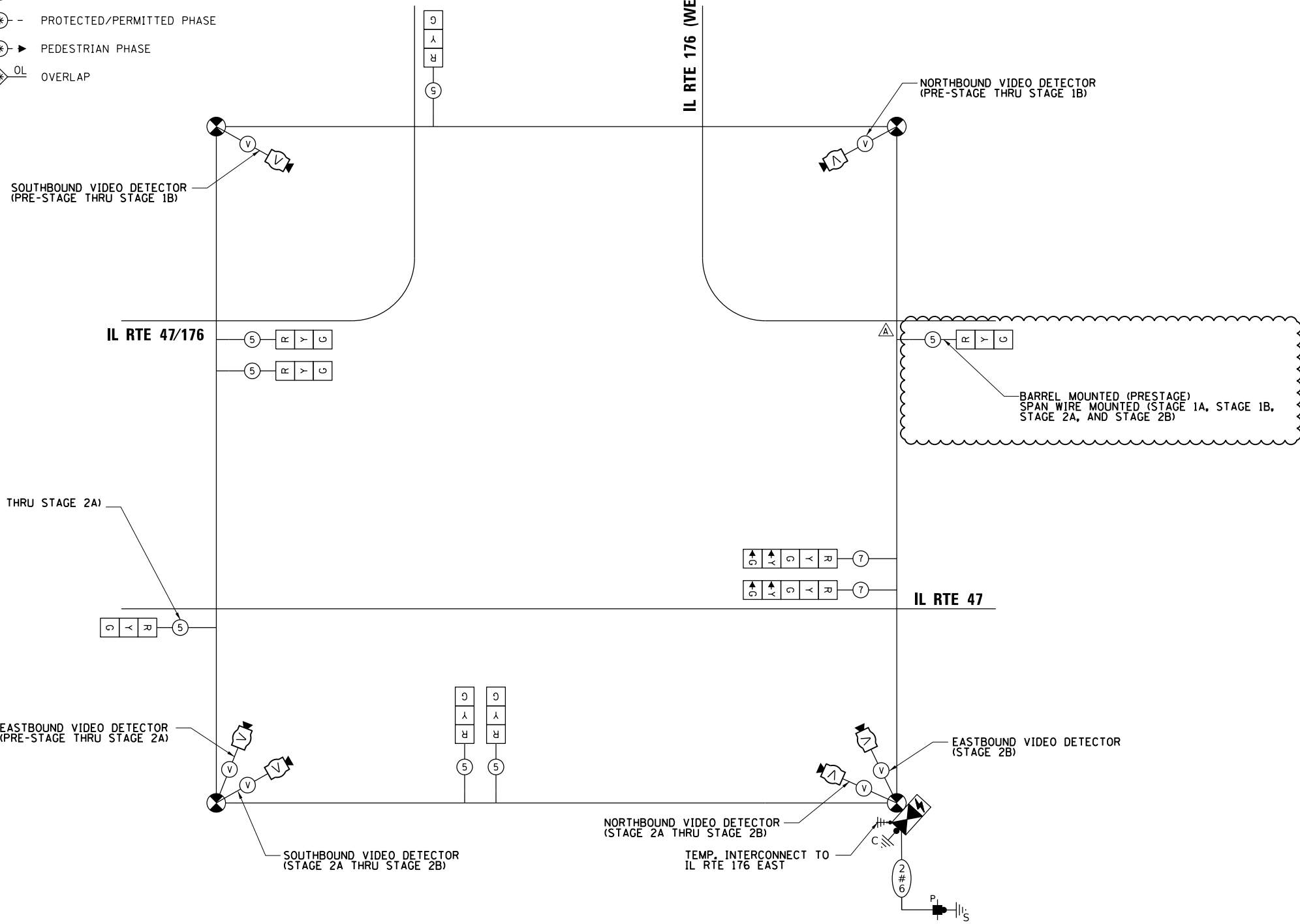
R10-5
30"X36"
SIGN PANEL - TYPE 1
1-REQUIRED

TS 21241
FORMER ECON 22
IDOT CENTRACS

TEMPORARY CONTROLLER SEQUENCE



- LEGEND:**
- ← ⊙ ← PROTECTED PHASE
 - ← ⊙ - PROTECTED/PERMITTED PHASE
 - ← ⊙ → PEDESTRIAN PHASE
 - ← ⊙ OL OVERLAP



TRAFFIC SIGNAL ELECTRIC SERVICE REQUIREMENTS			
TYPE	QUANTITY	UNIT	TOTAL WATTAGE
SIGNAL HEAD 3-SECTION	7	11	77
4-SECTION	-	14	-
5-SECTION	2	13	26
PROGRAMMABLE SIGNALS			
3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PED. SIGNAL			
CONTROLLER	1	150	150
MASTER CONTROLLER	1	100	100
UPS	1	25	25
DETECTION RADAR	-	20	-
VIDEO	3	20	120
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING			498
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING			1103

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAY/DISTRICT 1
 201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY: CONTACT: GENEVA MORROW
 PHONE: (847) 608-2371
 COMPANY: COMMONWEALTH EDISON

TEMPORARY CABLE PLAN
(NOT TO SCALE)

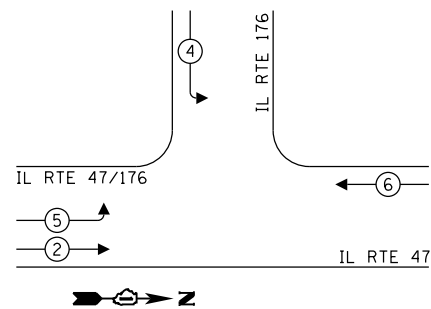
REVISD SHEET 2/28/2024

TS 21241
FORMER ECON 22
IDOT CENTRACS

TS SHT NO. 25

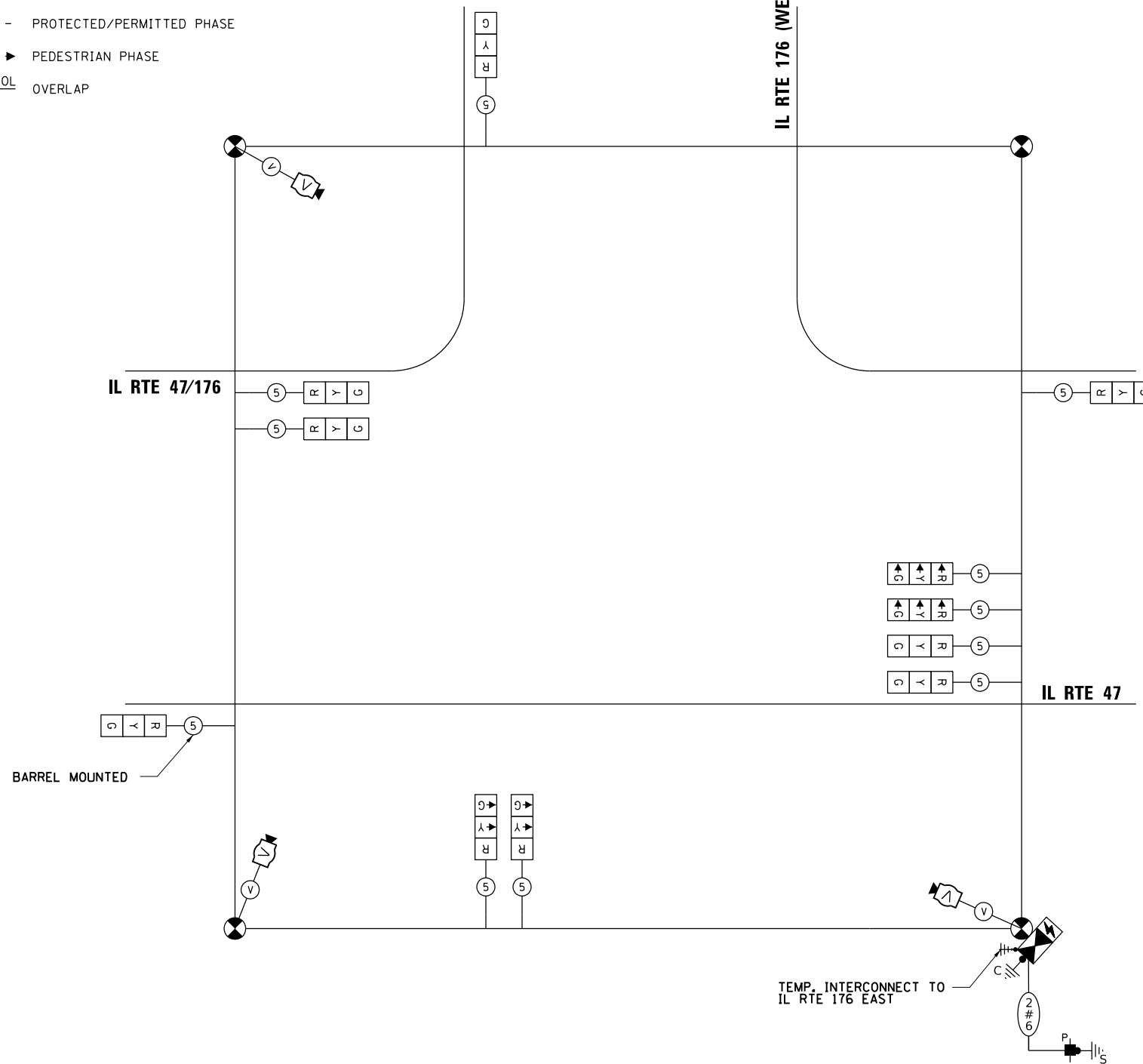
<p>1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200</p>	USER NAME = StevenB PLOT SCALE = 20.0000 "/>	DESIGNED - MAG DRAWN - DJW CHECKED - SIG DATE - 12/15/2023	REVISED ^A 2/23/2024 REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY CABLE PLAN AND PHASE DESIGNATION DIAGRAM (PRE-STAGE TO STAGE 2B) IL ROUTE 47 AND IL ROUTE 176 (N. JUNCTION)	F.A.P. RTE. 326 SECTION 105-N-2(15)	COUNTY MCHENRY	TOTAL SHEETS 803 SHEET NO. 519	CONTRACT NO. 62B43
	PLOT DATE = 2/16/2024	SCALE: SHEET 6 OF 10 SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT						

TEMPORARY CONTROLLER SEQUENCE



LEGEND:

- ← ⊙ → PROTECTED PHASE
- ← ⊙ - - ⊙ → PROTECTED/PERMITTED PHASE
- ← ⊙ ⊙ → PEDESTRIAN PHASE
- ← ⊙ OL → OVERLAP



TRAFFIC SIGNAL ELECTRIC SERVICE REQUIREMENTS			
TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 3-SECTION	11	11	121
4-SECTION	-	14	-
5-SECTION	-	13	-
PROGRAMMABLE SIGNALS			
3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PED. SIGNAL			
CONTROLLER	1	150	150
MASTER CONTROLLER	1	100	100
UPS	1	25	25
DETECTION RADAR	-	20	-
VIDEO	3	20	120
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING			516
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING			1121

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAY/DISTRICT 1
 201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY: CONTACT: GENEVA MORROW
 PHONE: (847) 608-2371
 COMPANY: COMMONWEALTH EDISON

TEMPORARY CABLE PLAN
(NOT TO SCALE)

TS 21241
FORMER ECON 22
IDOT CENTRACS

REVIS 1 REVISED SHEET 2/28/2024

TS SHT NO. 26

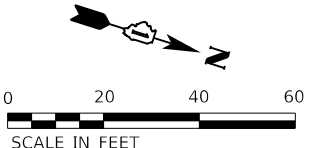
1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200	USER NAME = StevenB PLOT SCALE = 20.0000 "/>	DESIGNED - MAG DRAWN - DJW CHECKED - SJG DATE - 12/15/2023	REVISED A 2/23/2024 REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY CABLE PLAN AND PHASE DESIGNATION DIAGRAM (STAGE 3 TO FINAL STAGE) IL ROUTE 47 AND IL ROUTE 176 (N. JUNCTION)	F.A.P. RTE. 326 SECTION 105-N-2(15) COUNTY MCHENRY TOTAL SHEETS 803 SHEET NO. 520	CONTRACT NO. 62B43 ILLINOIS FED. AID PROJECT
	PLOT DATE = 2/16/2024	SCALE: SHEET 7 OF 10 SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT				

TS SHT NO. 27

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 FILE: 1170_SOUTH_HOUBOLT_ROAD\1170_SOUTH_HOUBOLT_ROAD.dwg

STRAND ASSOCIATES
 1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

USER NAME = StevenB	DESIGNED - MAG	REVISED - 2/23/2024
PLOT SCALE = 40,0000' / in.	DRAWN - DJW	REVISED -
PLOT DATE = 2/16/2024	CHECKED - SIG	REVISED -
	DATE - 12/15/2023	REVISED -

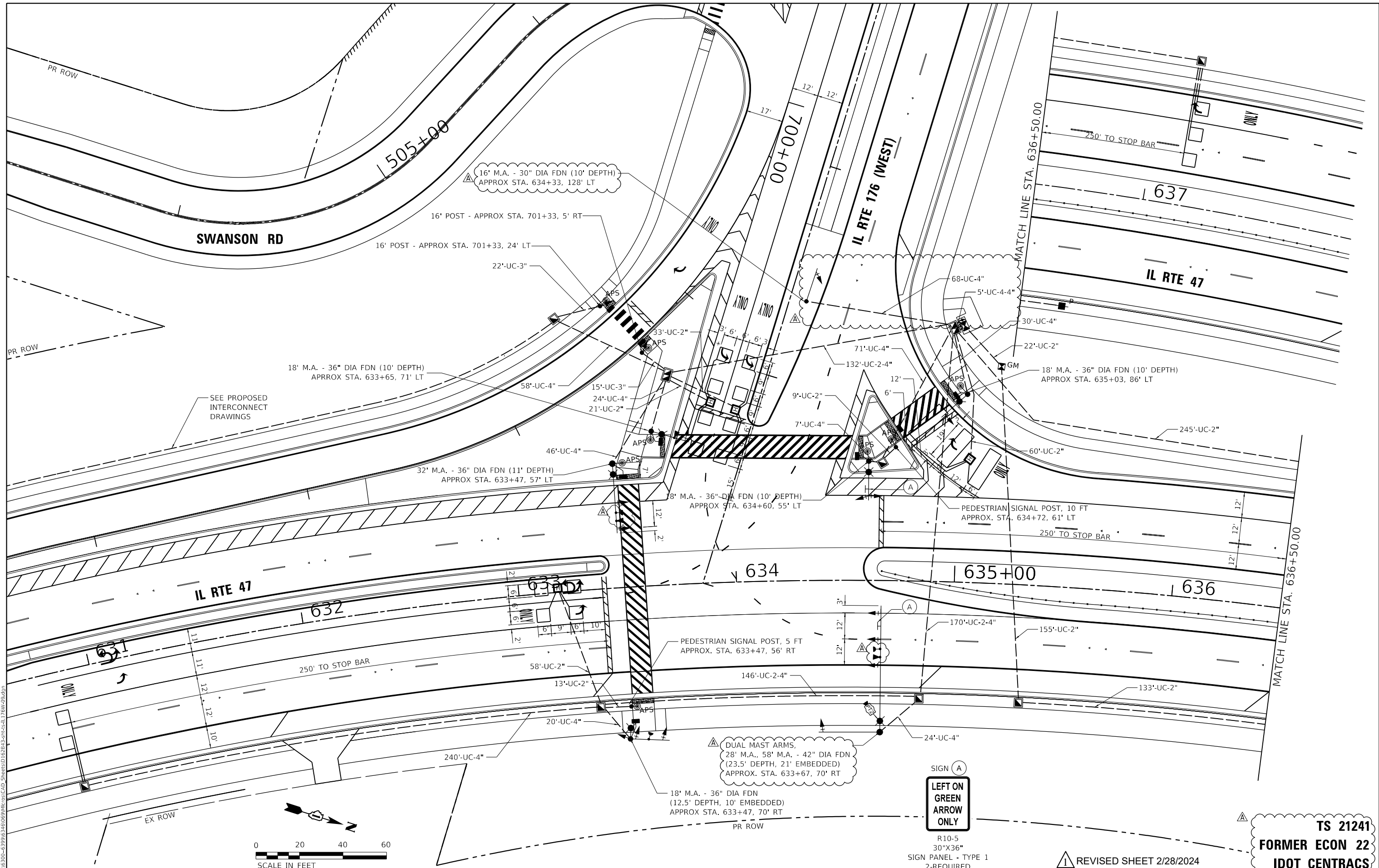


**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN
 IL ROUTE 47 AT IL ROUTE 176 (N. JUNCTION)**

SCALE: 1" = 20' SHEET 8 OF 10 SHEETS STA. TO STA.

F.A.P. RTE. 326	SECTION 105-N-2(15)	COUNTY MCHENRY	TOTAL SHEETS 803	SHEET NO. 521
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62B43	

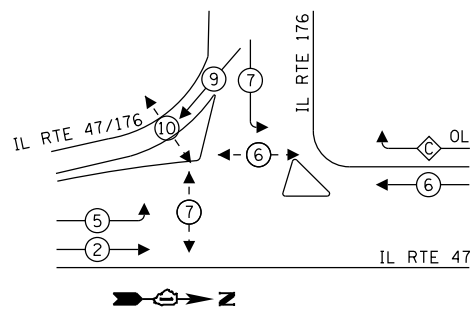


R10-5
 30"X36"
 SIGN PANEL - TYPE 1
 2-REQUIRED

REVISD SHEET 2/28/2024

**TS 21241
 FORMER ECON 22
 IDOT CENTRACS**

PROPOSED CONTROLLER SEQUENCE



LEGEND:

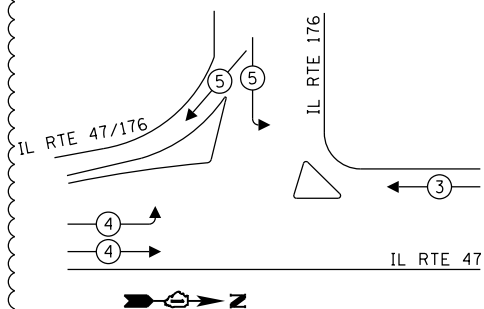
- ⊙ * ← PROTECTED PHASE
- ⊙ * ← PERMITTED PHASE
- ⊙ * ← PEDESTRIAN PHASE
- ⊙ OL ← OVERLAP

PROP. INTERCONNECT TO IL RTE 176 WEST
PROP. TRACER CABLE

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
C	6	7

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRIC SERVICE REQUIREMENTS

TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 3-SECTION	13	11	143
4-SECTION	-	14	-
5-SECTION	2	13	-
PROGRAMMABLE SIGNALS			
3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PED. SIGNAL CONTROLLER	8	15	120
MASTER CONTROLLER	1	150	150
UPS	-	100	-
DETECTION RADAR	1	25	25
VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	1	35	35
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING			473
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	6	240	1680
TOTAL SERVICE WIRE SIZING			2758

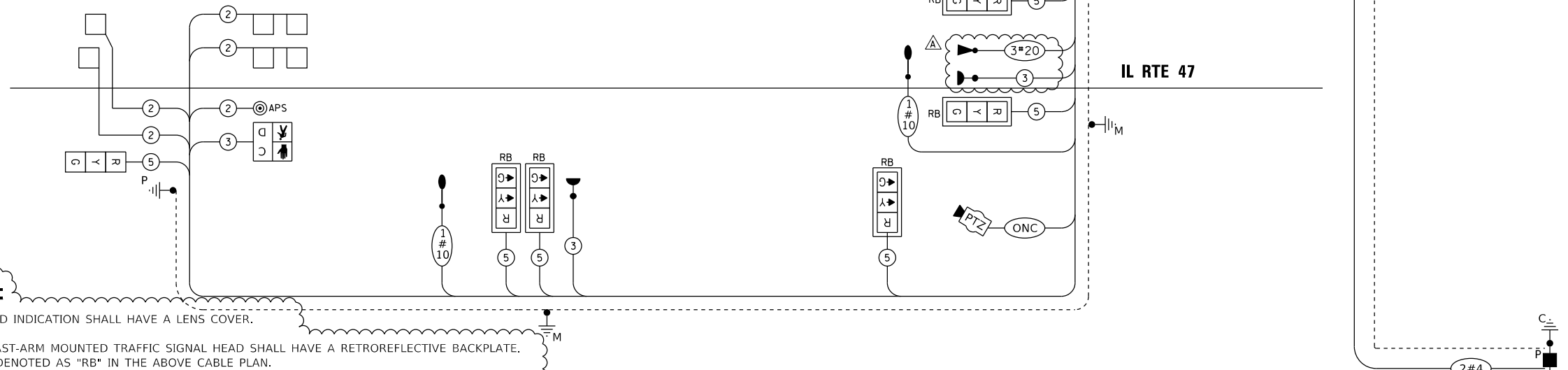
ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAY/DISTRICT 1
201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY: CONTACT: GENEVA MORROW
PHONE: (847) 608-2371
COMPANY: COMMONWEALTH EDISON

NOTES:

- EACH RED INDICATION SHALL HAVE A LENS COVER.
- EACH MAST-ARM MOUNTED TRAFFIC SIGNAL HEAD SHALL HAVE A RETROREFLECTIVE BACKPLATE. THIS IS DENOTED AS "RB" IN THE ABOVE CABLE PLAN.
- TRAFFIC SIGNAL CONTROLLER SHALL USE A MODIFIED RING AND BARRIER DESIGN. RING 1 AND RING 2 SHALL BE STANDARD WITH PHASES 1, 2, 3, AND 4 ON RING 1 AND PHASES 5, 6, 7, AND 8 ON RING 2. PHASE 9 AND 10 SHALL BE PLACED ON RING 3. PHASE 9 SHALL BE AFTER THE BARRIER AND SET TO RUN IN CONJUNCTION WITH PHASE 7 WHEN CALLED. PHASE 10 SHALL BE BEFORE THE BARRIER AND SET TO RUN IN CONJUNCTION WITH PHASE 2 AND 6. PHASE 9 SHALL BE SET TO BE A MINIMUM RECALL AND PHASE 10 SHALL BE SET TO A PEDESTRIAN RECALL.

CABLE PLAN (NOT TO SCALE)



TS SHT NO. 28

MODEL: D:\m\1170 SOUTH HOUBOLT ROAD JULIET, ILLINOIS 60431 STRAND ASSOCIATES (815) 744-4200

USER NAME	= alexam
DESIGNED	- MAG
DRAWN	- DJW
PLOT SCALE	= 20.0000" / in.
PLOT DATE	= 2/26/2024

REVISION	2/23/2024
CHECKED	- DWG
DATE	- 12/15/2023

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

CABLE PLAN AND PHASE DESIGNATION DIAGRAM IL ROUTE 47 AT IL ROUTE 176 (N. JUNCTION)

SCALE: N.T.S. SHEET 9 OF 10 SHEETS STA. TO STA.

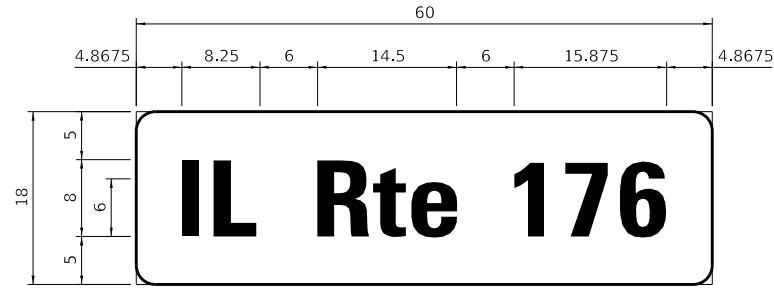
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105-N-2(15)	MCHENRY	803	522
CONTRACT NO. 62B43				
ILLINOIS FED. AID PROJECT				

TS 21241 FORMER ECON 22 IDOT CENTRACS

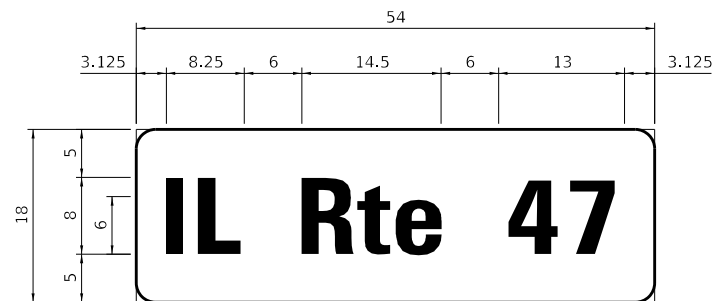
REVISED SHEET 2/28/2024

SIGN PANEL - TYPE 1

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



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	6.75	1	ZZ	1

NOTE:
1. IDOT WILL PROVIDE CENTRACS LICENSE.

SCHEDULE OF QUANTITIES

ITEM	UNIT	TOTAL QTY
SIGN PANEL - TYPE 1	SQ FT	22
SIGN PANEL - TYPE 2	SQ FT	0
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	769
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	42
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	1032
HANDHOLE	EACH	6
HEAVY-DUTY HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	2
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	2847
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2176
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	6076
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	371
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	3687
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 4 2C	FOOT	364
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	2371
STEEL MAST ARM ASSEMBLY AND POLE, 16 FT	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 28 FT AND 58 FT	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 18 FT.	EACH	4
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 32 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	EACH	12
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	53
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	11
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	24
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	10
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	3
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	13
INDUCTIVE LOOP DETECTOR	EACH	10
DETECTOR LOOP, TYPE 1	FOOT	830
LIGHT DETECTOR	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	1
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	9
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	1176
OUTDOOR RATED NETWORK CABLE	FOOT	250
FULL-ACTUATED CONTROLLER AND TYPE SUPER R CABINET (SPECIAL)	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
PEDESTRIAN SIGNAL POST, 10 FT	EACH	1
PEDESTRIAN SIGNAL POST, 5 FT	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	8
LED SIGNAL FACE, LENS COVER	EACH	16
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
POE EXTENDER	EACH	1

* 100% COST TO THE VILLAGE OF LAKEWOOD

REVISOR: 2/28/2024

TS 21241
FORMER ECON 22
IDOT CENTRACS

TS SHT NO. 29

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FILE NAME: ...
SHEET ID: 162843-51-176W-1.dgn



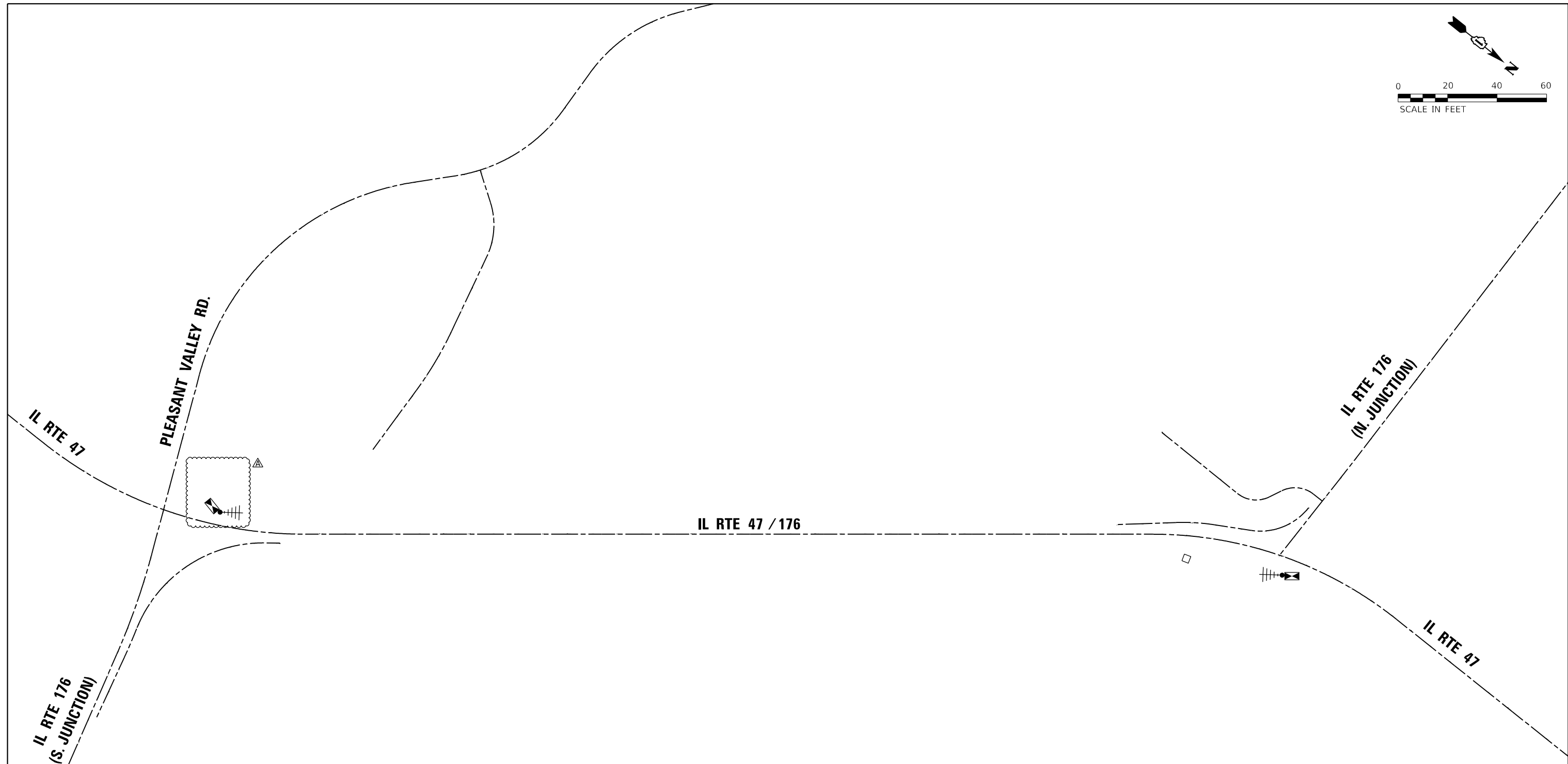
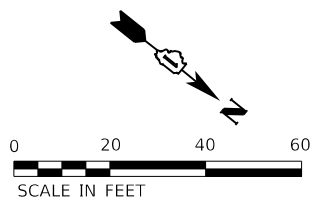
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DRAWN - DJW	CHECKED - SJG	REVISOR -
PLOT SCALE = 40.0000" / in.	DATE - 12/15/2023	REVISOR -
PLOT DATE = 2/16/2024		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES
IL ROUTE 47 AND IL ROUTE 176 (N. JUNCTION)

SCALE: 1"=20' SHEET 10 OF 10 SHEETS STA. 583+00.00 TO STA. 596+00.00

F.A.P. RTE. 326	SECTION 105-N-2(15)	COUNTY MCHENRY	TOTAL SHEETS 803	SHEET NO. 523
ILLINOIS			CONTRACT NO. 62B43	
FED. AID PROJECT				



TS SHT NO. 30

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 PROJECT: 1170 SOUTH HOUBOLT ROAD

STRAND ASSOCIATES
 1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

USER NAME = StevenB	DESIGNED - MAG	REVISED 2/23/2024
DRAWN - DJW	CHECKED - SJG	REVISED -
PLOT SCALE = 400.0000' / in.	DATE - 12/15/2023	REVISED -
PLOT DATE = 2/16/2024		

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

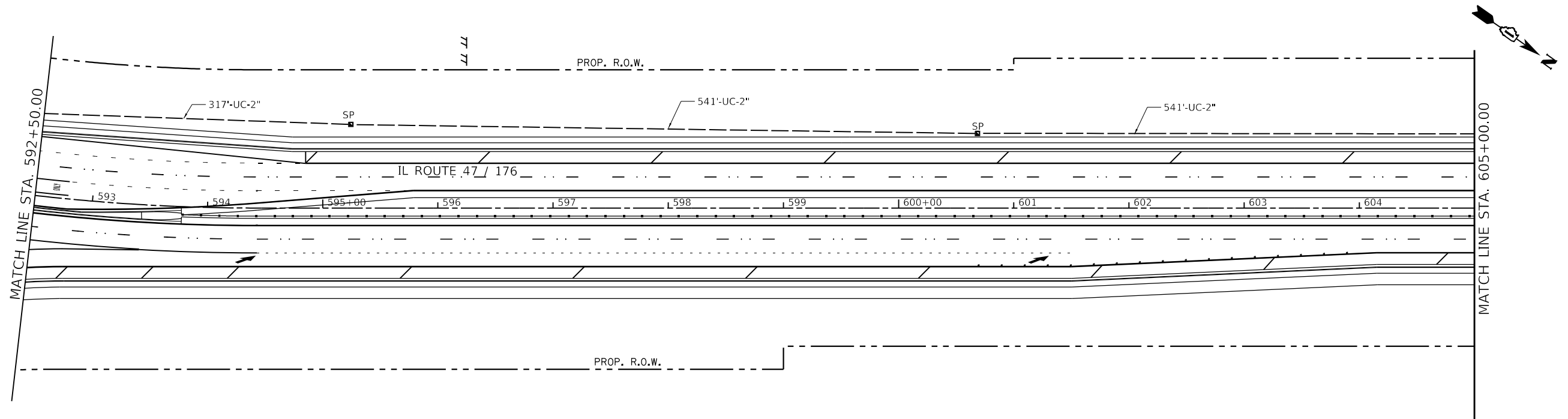
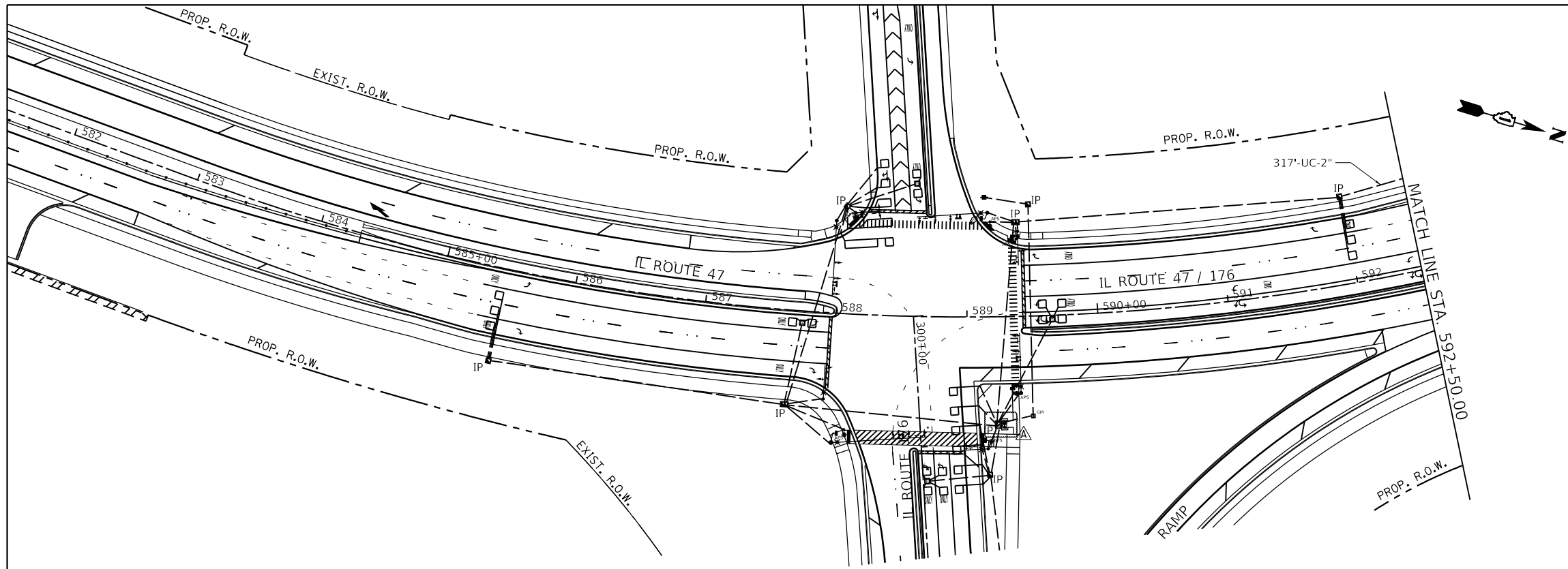
TEMPORARY INTERCONNECT SCHEMATIC
 IL ROUTE 47 FROM IL ROUTE 176 (S. JUNCTION)
 TO IL ROUTE 176 (N. JUNCTION)

SCALE: 1" = 200' SHEET 1 OF 1 SHEETS STA. TO STA.

REVISED SHEET 2/28/2024

FORMER ECON 22
IDOT CENTRACS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105-N-2(15)	MCHENRY	803	524
CONTRACT NO. 62B43				
ILLINOIS FED. AID PROJECT				



TS SHT NO. 31

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 STRAND ASSOCIATES

STRAND ASSOCIATES
 1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

USER NAME = StevenB	DESIGNED - MAG	REVISED Δ 2/23/2024
DRAWN - DJW	CHECKED - SJG	REVISED -
PLOT SCALE = 100.0000' / in.	DATE - 12/15/2023	REVISED -
PLOT DATE = 2/16/2024		

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

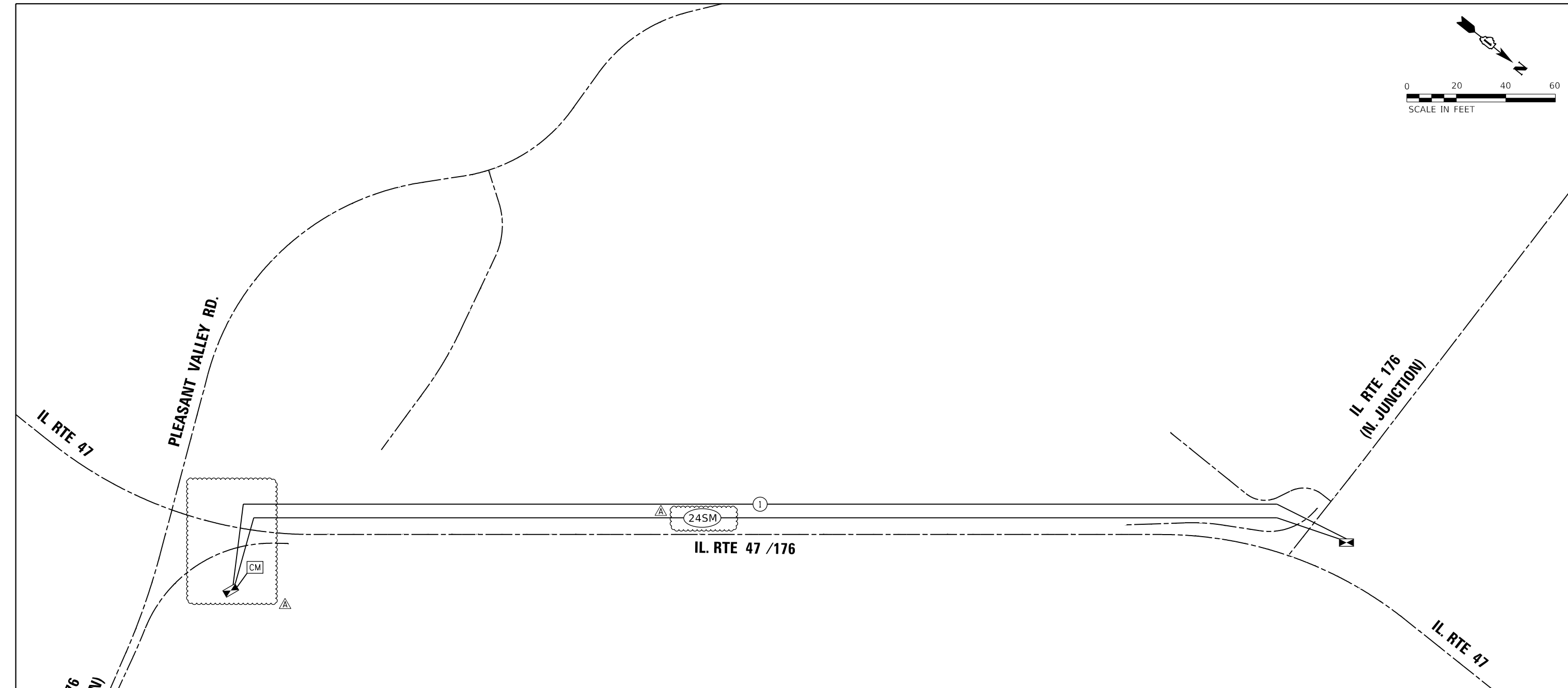
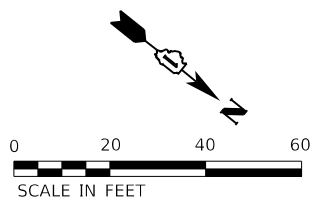
INTERCONNECT PLAN
 IL ROUTE 47 FROM IL ROUTE 176 (S. JUNCTION)
 TO IL ROUTE 176 (N. JUNCTION)

SCALE: 1" = 50' SHEET 1 OF 3 SHEETS STA. 586+00.00 TO STA. 605+00.00

Δ REVISED SHEET 2/28/2024

TS 21240
FORMER ECON 22
IDOT CENTRACS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105-N-2(15)	MCHENRY	803	525
CONTRACT NO. 62B43				
ILLINOIS FED. AID PROJECT				



SCHEDULE OF QUANTITIES

ITEM	UNIT	TOTAL QTY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	4121
HANDHOLE	EACH	8
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	4353
REMOVE EXISTING HANDHOLE	EACH	7
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
FIBER OPTIC INTERCONNECT CENTER, 24 PORT	FOOT	2
FIBER OPTIC CABLE 24 FIBERS, SINGLE MODE	EACH	5415
OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1
	0 EACH	0

EXISTING INTERCONNECT EQUIPMENT REMOVAL SCHEDULE

ITEM	STATION	OFFSET
HANDHOLE 1	595+61	79' LT
HANDHOLE 2	598+76	43' LT
HANDHOLE 3	604+71	36' LT
HANDHOLE 4	610+72	39' LT
HANDHOLE 5	616+73	40' LT
HANDHOLE 6	622+72	45' LT
HANDHOLE 7	628+72	58' LT
DOUBLE HANDHOLE	631+07	88' LT

TS 21240
FORMER ECON 22
IDOT CENTRACS

1 REVISED SHEET 2/28/2024

TS SHT NO. 34

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PLOT SCALE = 400.0000' / in.	DRAWN - DJW	REVISIONS -
PLOT DATE = 2/26/2024	CHECKED - SJG	REVISIONS -
	DATE - 12/15/2023	REVISIONS -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT SCHEMATIC AND SCHEDULE OF QUANTITIES
IL ROUTE 47 FROM IL ROUTE 176 (S. JUNCTION)
TO IL ROUTE 176 (N. JUNCTION)

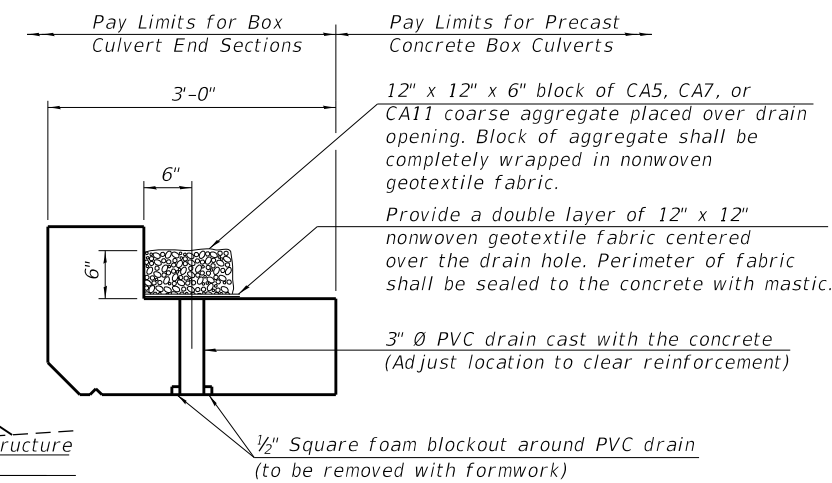
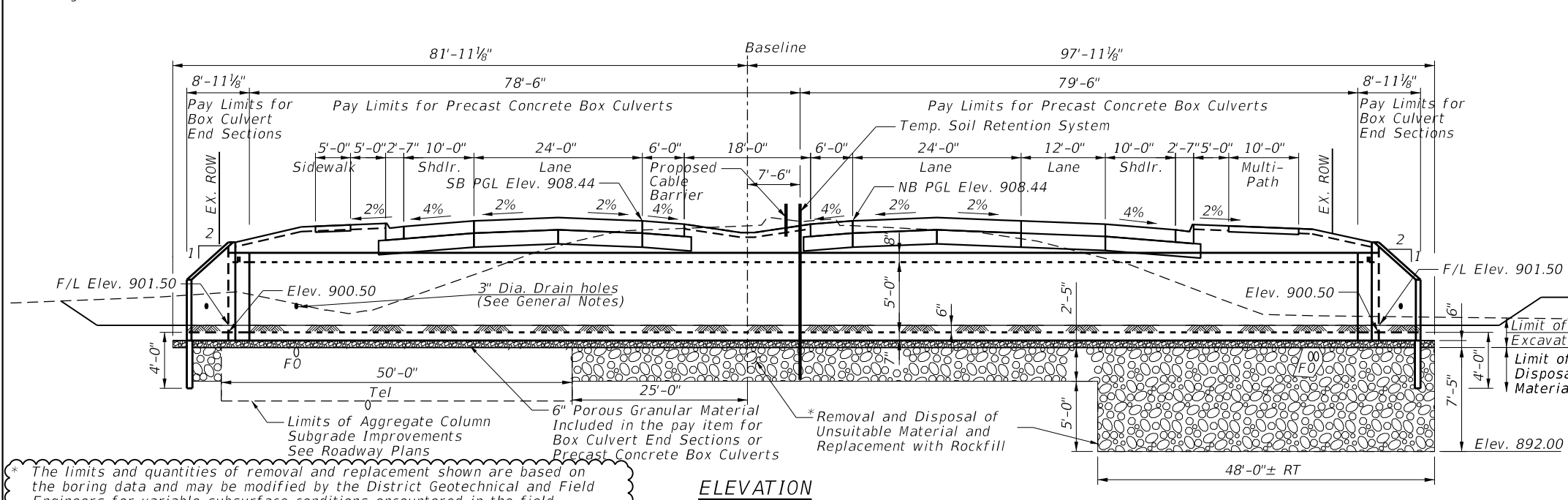
F.A.P. RTE. 326	SECTION 105-N-2(15)	COUNTY MCHENRY	TOTAL SHEETS 803	SHEET NO. 528
SCALE: 1" = 200'			CONTRACT NO. 62B43	
SHEET 6 OF 6 SHEETS		ILLINOIS FED. AID PROJECT		

Benchmark: BM #6, Set cut square on light pole base along Illinois Rte. 47
130± North of intersection of Pleasant Valley Road. Elev. 908.52

Traffic Control: Traffic to be maintained utilizing Stage Construction.

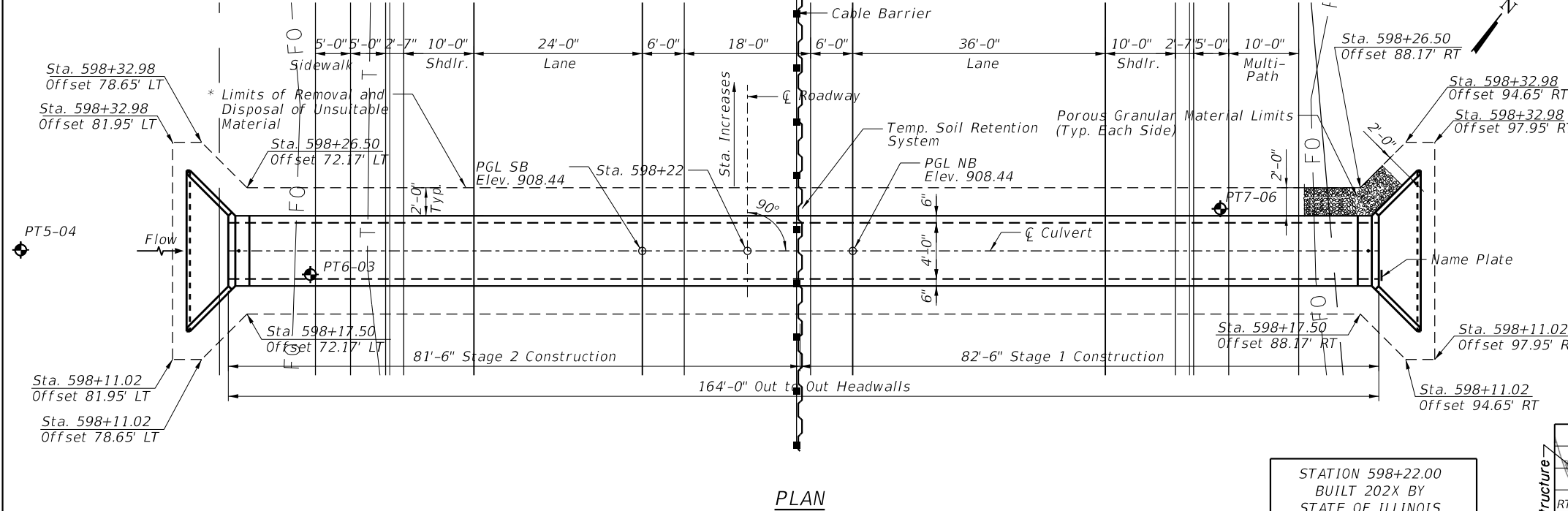
Existing Structure: None

Salvage: None

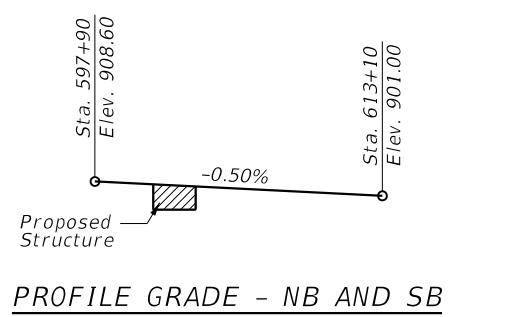


* The limits and quantities of removal and replacement shown are based on the boring data and may be modified by the District Geotechnical and Field Engineers for variable subsurface conditions encountered in the field.

The Rockfill shall be capped with 6 in. of CA7 and satisfy the Standard Specifications unless otherwise indicated in the Special Provisions. The cost of the capping material shall be included in the pay item for Rockfill.



(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)



DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications 9th Edition

LOADING HL-93

Allow 50 #/sq. ft. for future wearing surface

PRECAST UNITS

f'c = 5,000 psi

fy = 65,000 psi (Welded Wire Reinforcement)

NAME PLATE
See Std. 515001

*year on nameplate shall be year culvert is constructed

LOCATION SKETCH

Range 7E, 3RD P.M.

RTE 176 W, RTE 47, Pleasant Valley, Twp. 44N

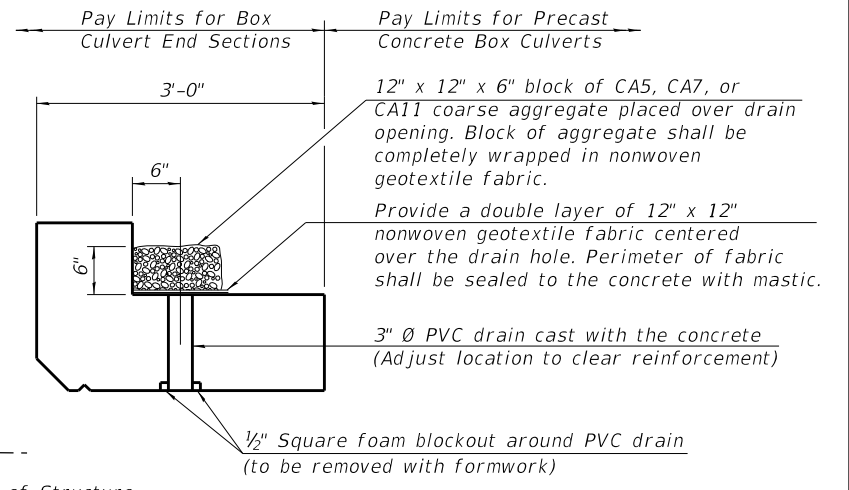
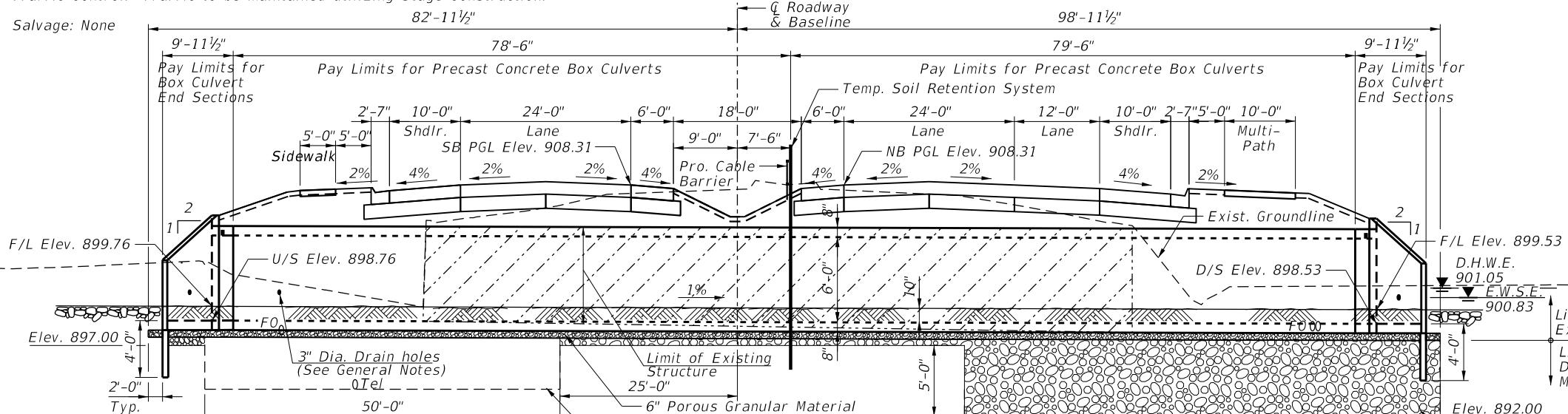
GENERAL PLAN AND ELEVATION
IL RTE. 47 ANIMAL CROSSING
F.A.P. RTE. 326 SEC 105-N-2(15)
McHENRY COUNTY
STATION 598+22.00
S.N. 056-C001

Benchmark: BM #6, Set cut square on light pole base along Illinois Rte. 47
130± North of intersection of Pleasant Valley Road. Elev. 908.52

Existing Structure: SN 056-0247 was built in 1936 as SBI 47 Section 105X.
It is a single Box Culvert 6' x 5', 100'-0" Face to Face of Headwalls.

Traffic Control: Traffic to be maintained utilizing Stage Construction.

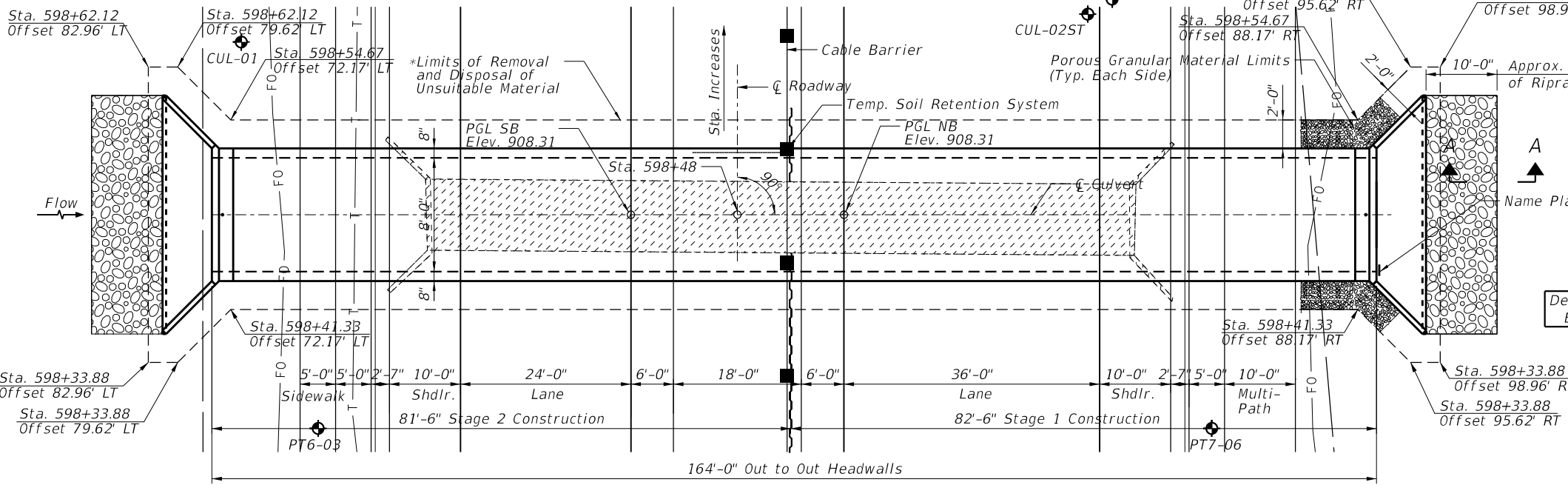
Salvage: None



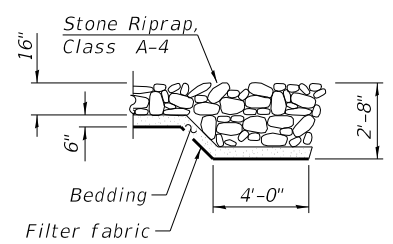
The limits and quantities of removal and replacement shown are based on the boring data and may be modified by the District Geotechnical and Field Engineers for variable subsurface conditions encountered in the field.

The Rockfill shall be capped with 6 in. of CA7 and satisfy the Standard Specifications unless otherwise indicated in the Special Provisions. The cost of the capping material shall be included in the pay item for Rockfill

(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)



DRAIN DETAIL



SECTION A-A

DESIGN SCOUR ELEVATION TABLE

Design Scour Elev. (ft.)	D/S Inv. (ft.)	U/S Inv. (ft.)
	895.53	895.76

DESIGN SPECIFICATIONS
2020 AASHTO LRFD Bridge Design Specifications
9th Edition

LOADING HL-93

Allow 50 #/sq. ft. for future wearing surface

DESIGN STRESSES

PRECAST UNITS

f'c = 5,000 psi
fy = 65,000 psi (Welded Wire Reinforcement)

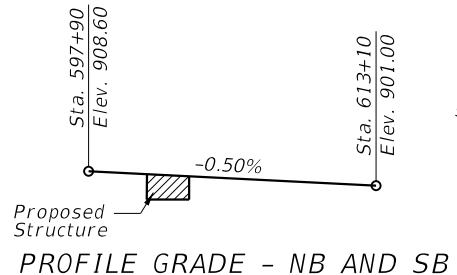
WATERWAY INFORMATION

Drainage Area = 0.0544 sq. mi. Low Grade Elev. = 908.05 @ Sta. 599+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
2	9.48	4.3	5.7	900.47	0.00	0.00	900.47	900.47	
10	17.04	6.4	8.6	900.83	0.05	0.18	900.88	901.01	
Design	50	27.41	7.8	10.3	901.05	0.21	0.34	901.26	901.39
Base	100	38.82	8.9	11.8	901.24	0.40	0.50	901.64	901.74
Overtopping									
Max. Calc.	500	65.90	11.1	14.7	901.60	0.83	0.84	902.43	902.44

10-Year Velocity Through Existing Structure = 2.7 fps
10-Year Velocity Through Proposed Structure = 1.5 fps

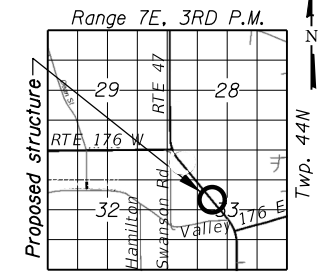
PLAN



PROFILE GRADE - NB AND SB

STATION 598+48.00
BUILT 202X BY
STATE OF ILLINOIS
F.A.P. RT. 326
SEC. 105-N-2(15)
LOADING HL-93
STR. NO. 056-0309

NAME PLATE
See Std. 515001



LOCATION SKETCH

GENERAL PLAN AND ELEVATION

**IL RTE. 47 OVER
KISHWAUKEE RIVER TRIBUTARY**

F.A.P. RTE. 326 SEC 105-N-2(15)

McHENRY COUNTY

STATION 598+48.00

S.N. 056-0309

REVISED SHEET 2/28/2024

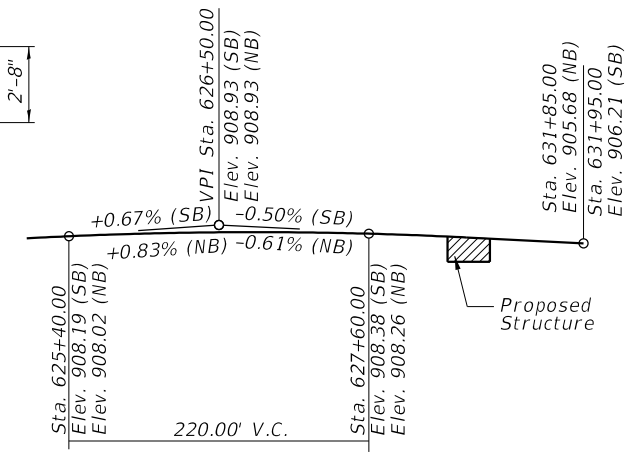
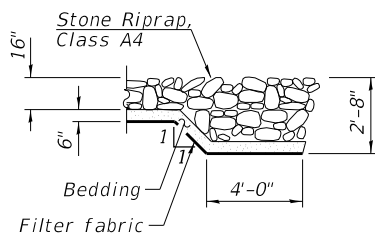
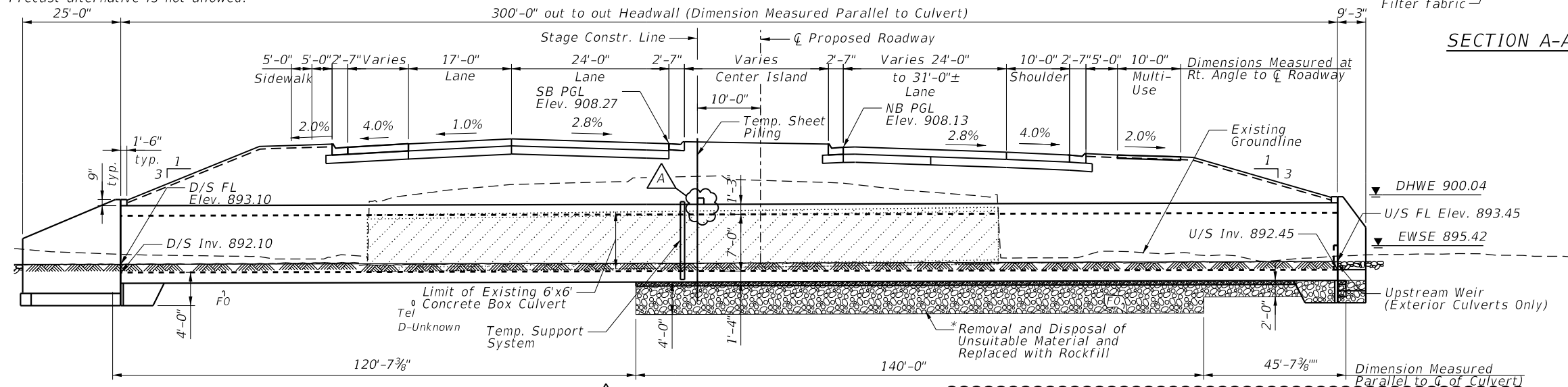
Bench Mark: BM #9-Found bolt at the SW corner of Concrete Box Culvert. Elev.=901.77

Existing Structure: SN 056-0246 was originally built in 1936 as SBI 47, Section 105A and was reconstructed in 1971 as FAP 64, Section 105N, Contract 28872. It is a single 6'x6' R.C. box culvert, 155'-0" face to face of curb.

Traffic Control: Traffic to be maintained utilizing stage construction.

Salvage: None

Precast alternative is not allowed.
25'-0"



PROFILE GRADE NB AND SB

STATION 627+82
BUILT BY
STATE OF ILLINOIS
FAP ROUTE 326 (IL 47)
SEC 105-N-2 (15)
LOADING HL-93
STRUCTURE NO. 056-0310

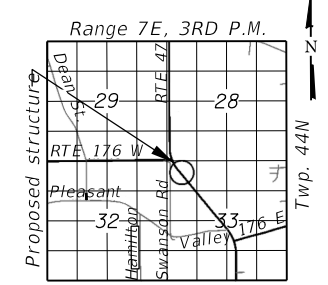
NAME PLATE
See Std. 515001

DESIGN SPECIFICATIONS
2020 AASHTO LRFD Bridge Design
Specifications, 9th Edition

LOADING HL-93
Allow 50#/sq. ft. for future wearing surface.

DESIGN STRESSES
FIELD UNITS

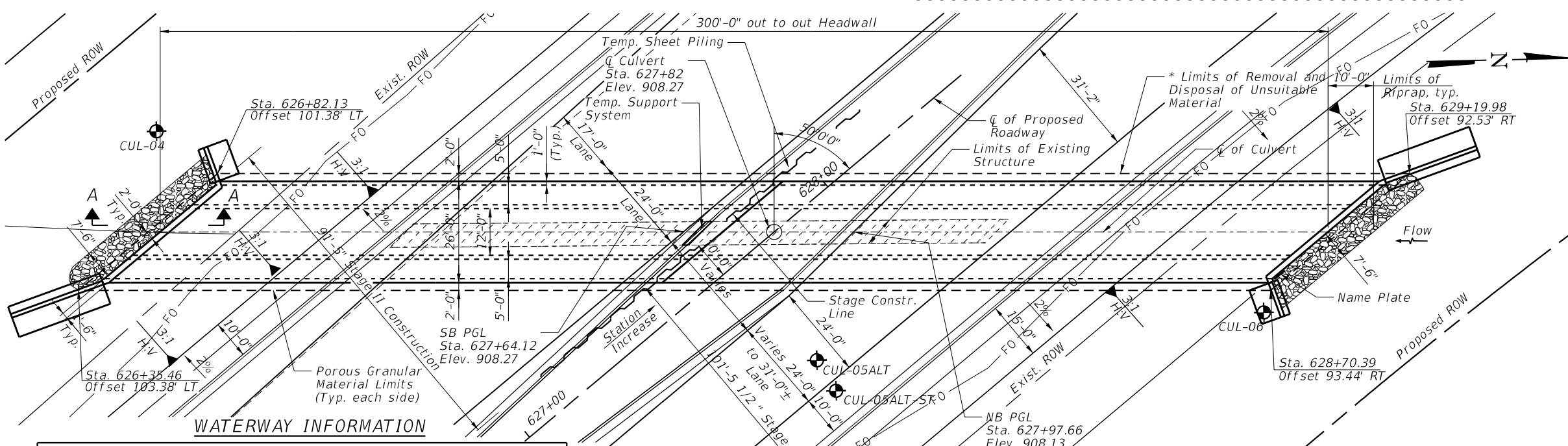
$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
ILLINOIS ROUTE 47 OVER
TRIBUTARY KISHWAUKEE RIVER
FAP ROUTE 326 (IL 47)
SECTION 105-N-2(15)
McHENRY COUNTY
STATION 627+82
STRUCTURE No. 056-0310

* The limits and quantities of removal and replacement shown are based on the boring data and may be modified by the District Geotechnical and Field Engineers for variable subsurface conditions encountered in the field. The Rockfill shall be capped with 6 in. of CA7 and satisfy the Standard Specifications unless otherwise indicated in the Special Provisions. The cost of the capping material shall be included in the pay item for Rockfill.



WATERWAY INFORMATION

Drainage Area = 1.47		Low Grade Elev. 904.55 @ Sta. 622+00								
Flood	Freq. Yr.	Q C.F.S.	Opening Ft ²		Nat. H.W.E.		Head - Ft.		Headwater El	
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
	2	84.05	17.8	72.2	897.64	0.80	0.00	898.44	897.64	
	10	139	22.8	90.4	898.47	0.84	0.01	899.28	898.48	
Design	50	312	32.2	112.0	900.04	2.15	0.20	902.16	900.24	
Base	100	425	34.9	112.0	900.51	2.13	0.46	902.60	900.97	
Overtopping										
Max. Calc.	500	609	36.0	112.0	901.08	1.89	1.12	902.92	902.20	

10-Year Velocity Through Existing Structure = 4.9 fps
10-Year Velocity Through Proposed Structure = 1.4 fps

DESIGN SCOUR
ELEVATION TABLE

Design Scour Elev. (ft.)	D/S Inv.	U/S Inv.
888.10	888.10	888.45



Majid Mobasser Ca 12/14/23
MAJID MOBASSERI
STRUCTURAL ENGINEER
ILLINOIS REGISTRATION No. 081-005058
EXPIRATION DATE: 11/30/24

REVISOR SHEET 2/28/2024

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 056-0310

SCALE: N.T.S. SHEET 1 OF 9 SHEETS STA. 627+82 TO STA. ---

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105-N-2(15)	McHENRY	805	576
CONTRACT NO. 62B43				
ILLINOIS FED. AID PROJECT				

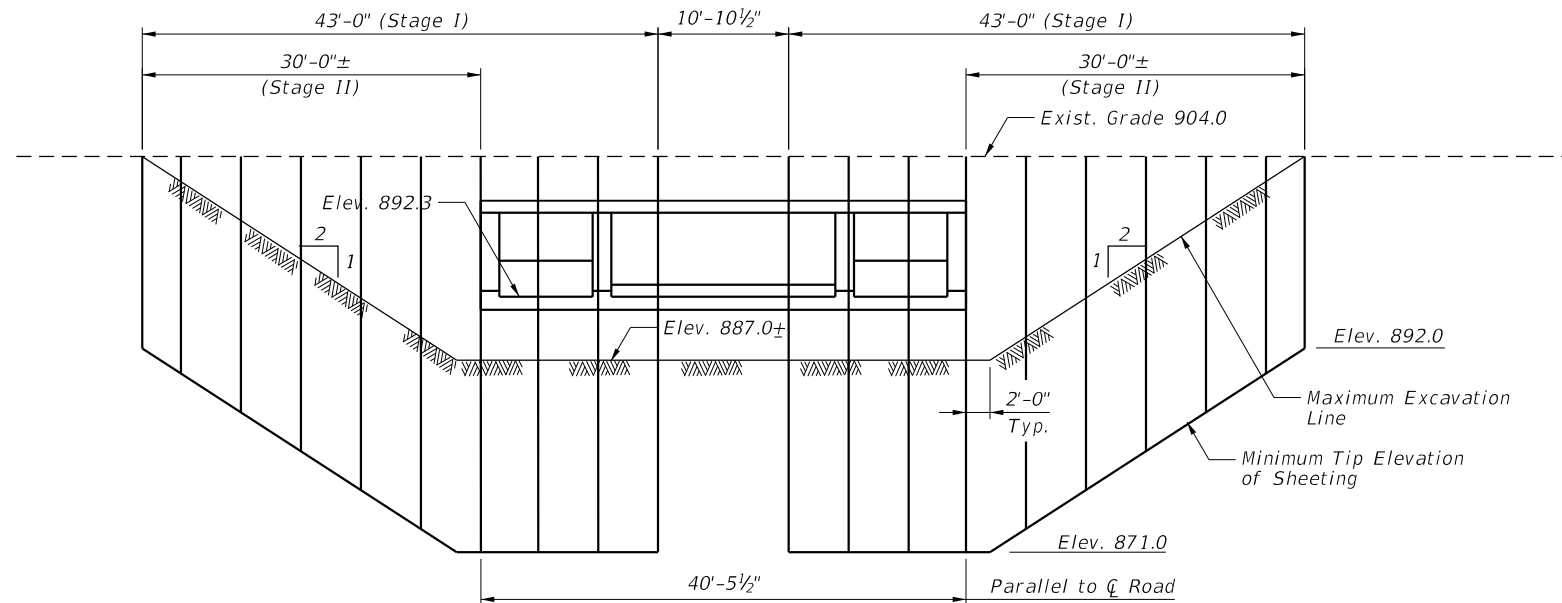
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CHRISTOPHER B. BURKE
ENGINEERING, LTD.
9575 W. HOGANS ROAD, SUITE 600
ROSEMONT, ILLINOIS 60018
(847) 823-0500

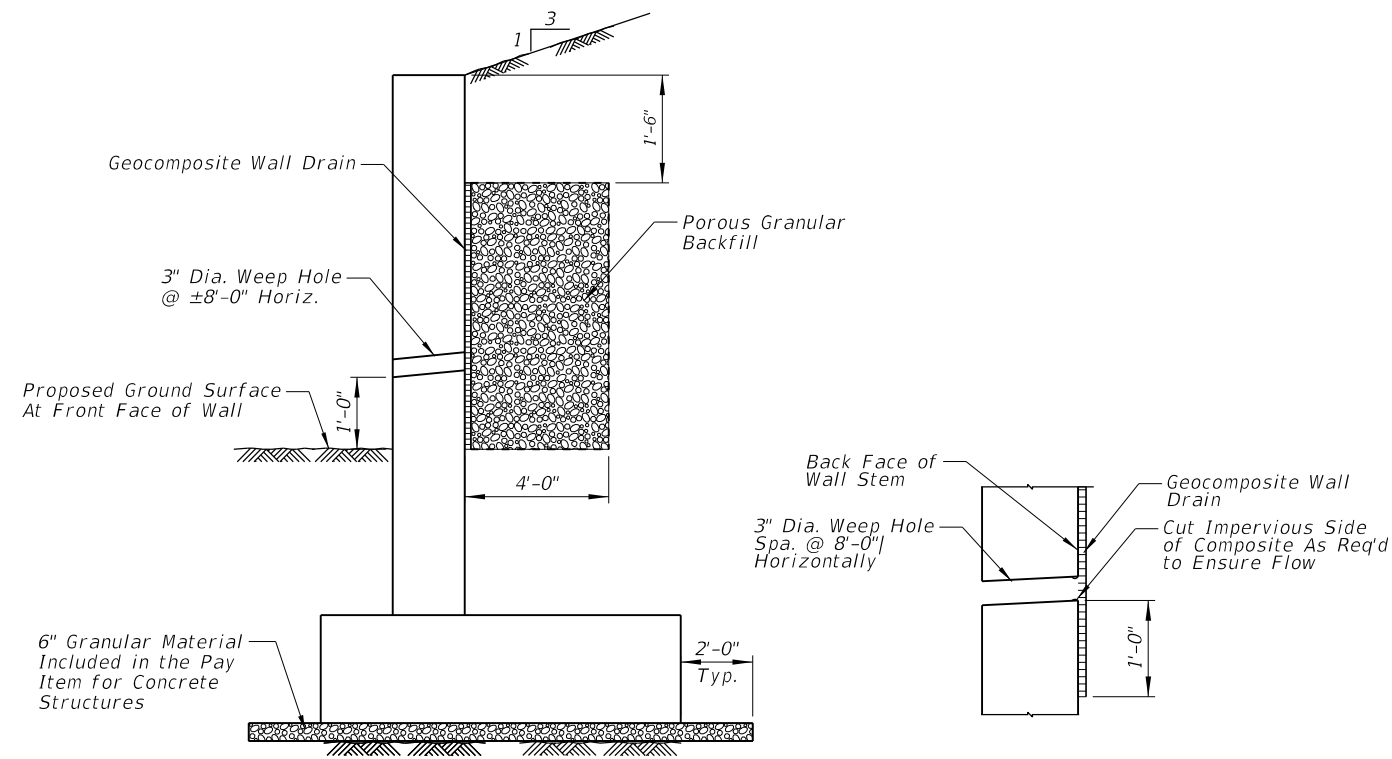
USER NAME	DESIGNED	REVISION
=joanett	AS	2/23/2024
	PDR	
	MM	
	SPLANDATES	

GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated
2. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
3. If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.



TEMPORARY SHEET PILING DETAIL
IL RTE. 47 @ STAGE CONSTRUCTION LINE
 Minimum Section Modulus = 27.4 in³/ft



TYPICAL SECTION THRU WALL **WEEP HOLE DRAIN DETAIL**

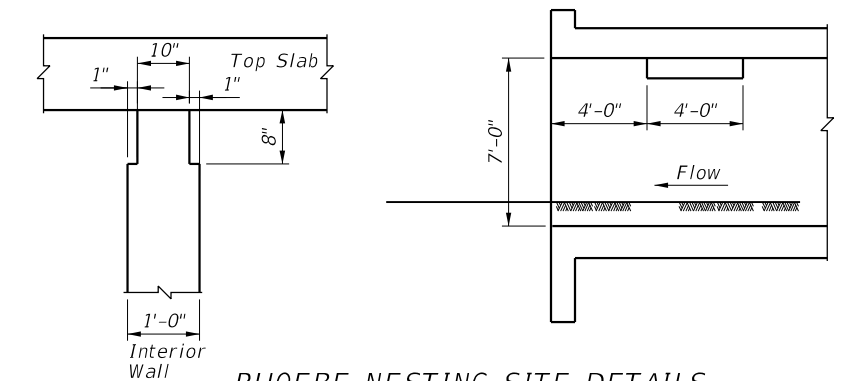
INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 General Notes, Index of Sheets and Total Bill of Materials
- 3 Stage Construction Details
- 4 Plan and Elevation - Details
- 5 Section and Details
- 6 Bar Splicer Assembly and Mechanical Splicer Details
- 7 Soil Boring Logs
- 8 - 9 Existing Structure (For Information Only)

TOTAL BILL OF MATERIAL

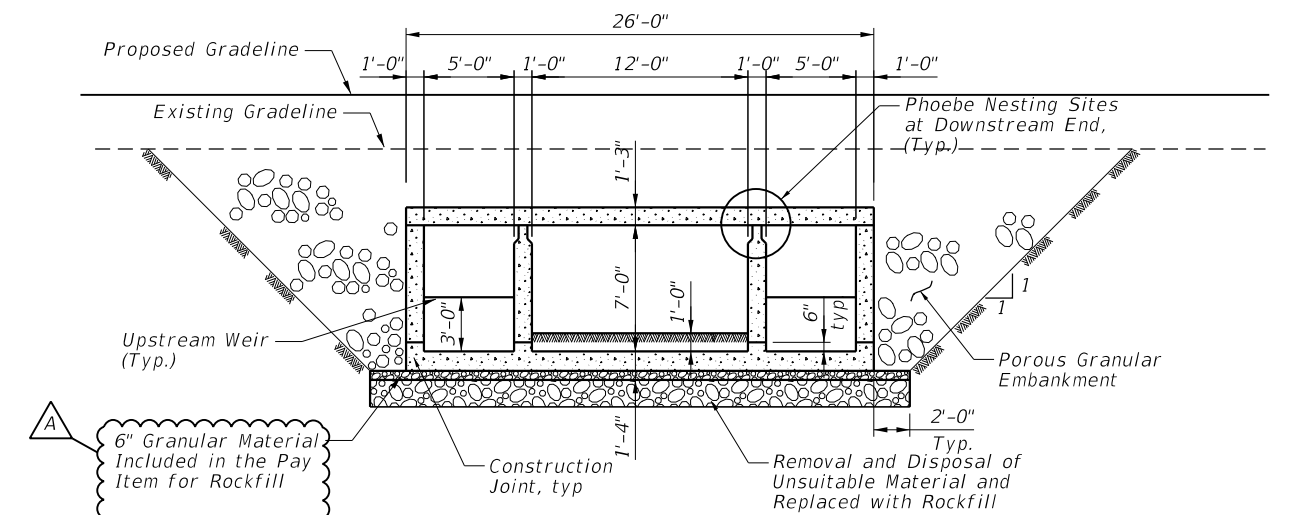
ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu. Yd.	1,717
Porous Granular Backfill	Cu. Yd.	47
Stone Riprap, Class A4	Sq. Yd.	81
Filter Fabric	Sq. Yd.	81
Removal of Existing Structures No. 2	Each	1
Structure Excavation	Cu. Yd.	2,597
Removal and Disposal of Unsuitable Material	Cu. Yd.	718
Concrete Structures	Cu. Yd.	52.0
Reinforcement Bars	Pound	296,360
Reinforcement Bars, Epoxy Coated	Pound	1,210
Bar Splicers	Each	172
Name Plates	Each	1
Temporary Sheet Piling	Sq. Ft.	2,369
Concrete Box Culverts	Cu. Yd.	1,069.3
Geocomposite Wall Drain	Sq. Yd.	35
* Temporary Support System	L. Sum	1
* Rock Fill	Cu. Yd.	714

* See Special Provision



PHOEBE NESTING SITE DETAILS
 (DOWNSTREAM END)

Note:
 Notch formed by rough-finished board attached to and removed with formwork.



SECTION THRU BARREL
 (Dimensions at Rt. Angle to Barrel)

MODEL: D:\m\p\...
 FILE NAME: I:\DOT\170323\EBELLS\056-0310-CRNOTES_170323.rvt

CHRISTOPHER B. BURKE ENGINEERING, LTD. 9575 W. HOGGINS ROAD, SUITE 600 ROSEMONT, ILLINOIS 60018 (847) 823-0500	USER NAME = jlbarnett	DESIGNED - AS	REVISED - Δ 2/23/2024
	PLOT SCALE = 2,000' / in.	DRAWN - PDR	REVISED -
	PLOT DATE = 2/20/2024	CHECKED - MM	REVISED -
		DATE - SPLANDATES	REVISED -

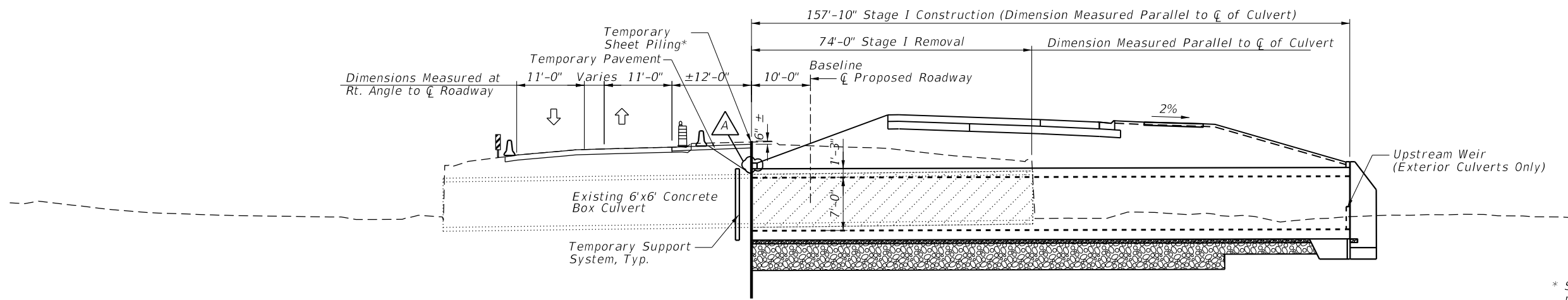
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, INDEX OF SHEETS AND TOTAL BILL OF MATERIALS
STRUCTURE NO. 056-0310

SCALE: N.T.S. SHEET 2 OF 9 SHEETS STA. 627+82 TO STA. ---

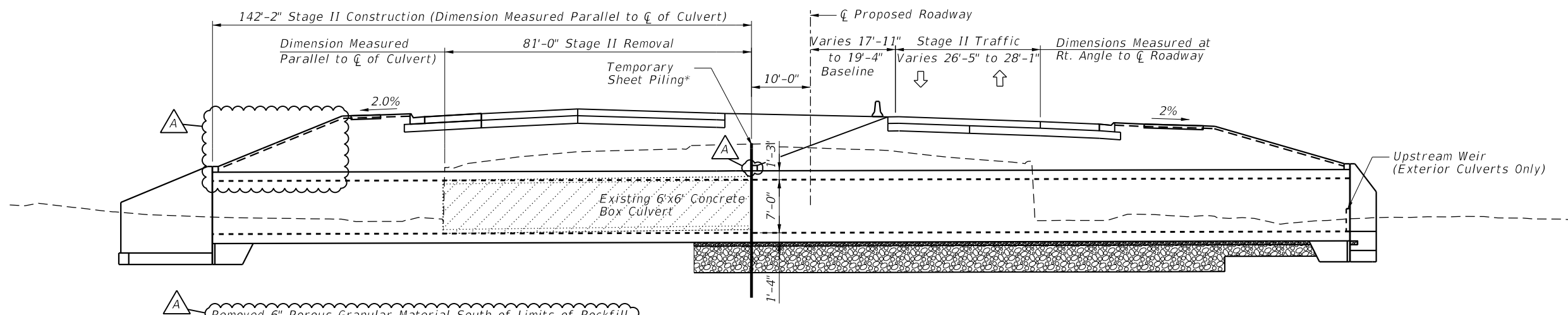
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105-N-2(15)	MCHENRY	805	577
			CONTRACT NO. 62B43	
ILLINOIS FED. AID PROJECT				

Δ REVISED SHEET 2/28/2024

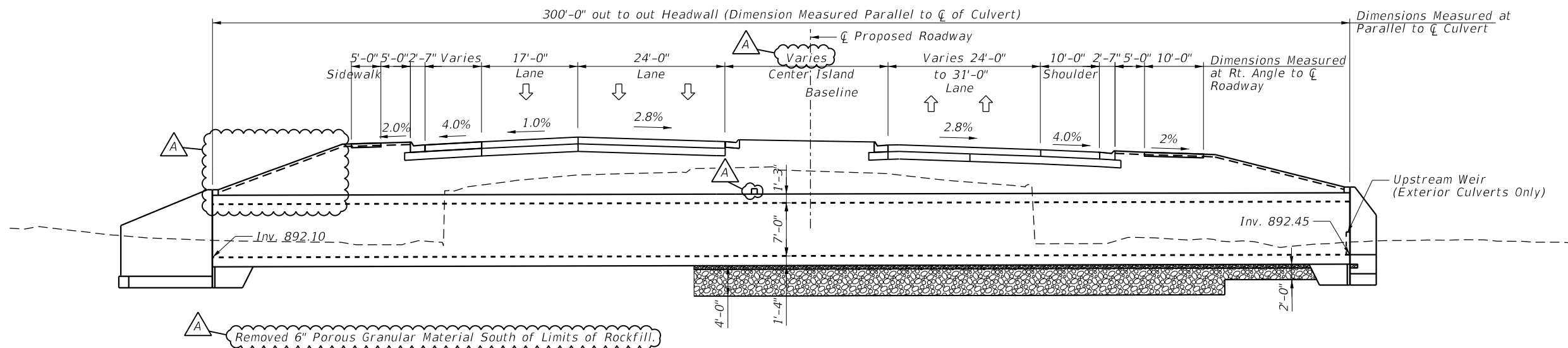


STAGE 1A AND 1B

* See General Note Sheet for temporary sheet piling details.



STAGE 2A AND 2B



FINAL

REVISION 1 REVISED SHEET 2/28/2024

Note: There is no culvert work for this structure during MOT Stage 3. Only roadway work is occurring at this location during Stage 3.

MODEL: D:\m\117035\EBELLS\056-0310\40T_170353.dgn

CB CHRISTOPHER B. BURKE
ENGINEERING, LTD.
9575 W. HOGGINS ROAD, SUITE 600
ROSEMONT, ILLINOIS 60018
(847) 823-0500

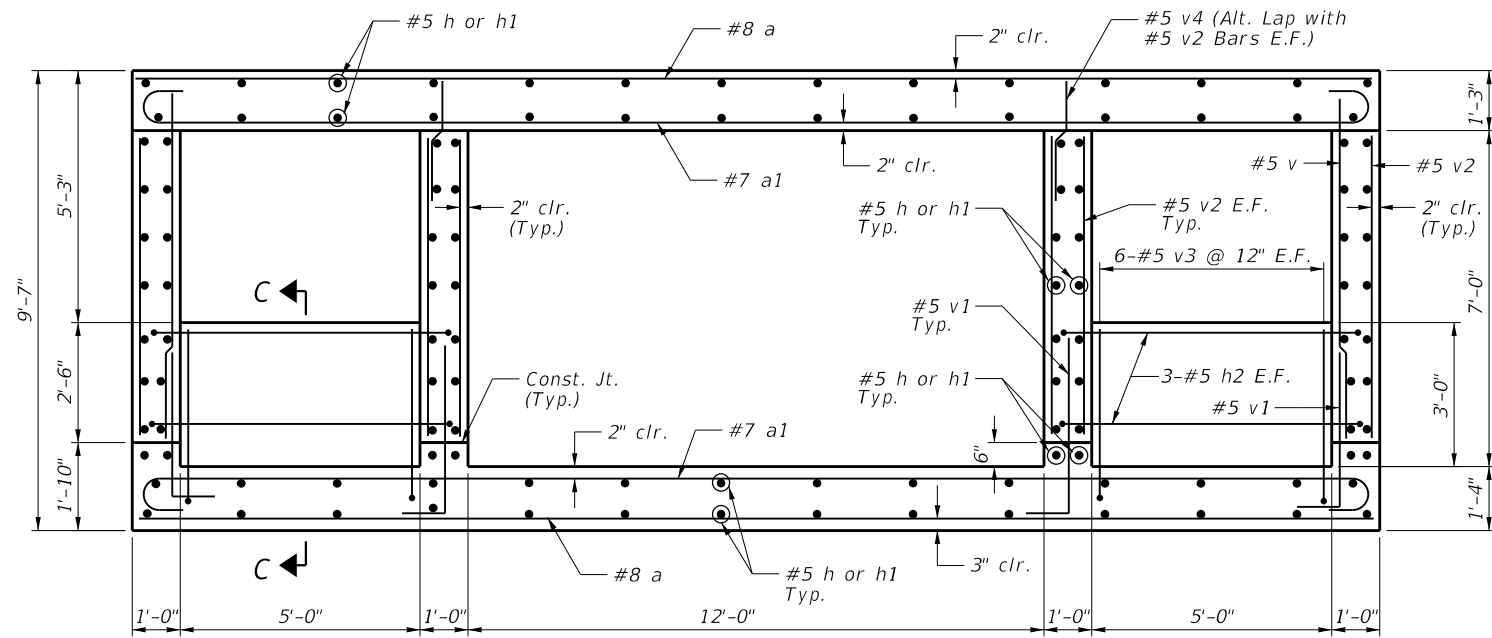
USER NAME = jbarrett	DESIGNED - AS	REVISED - A 2/23/2024
PLOT SCALE = 2,000' / in.	DRAWN - PDR	REVISED -
PLOT DATE = 2/20/2024	CHECKED - MM	REVISED -
	DATE - SPLANDATES	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

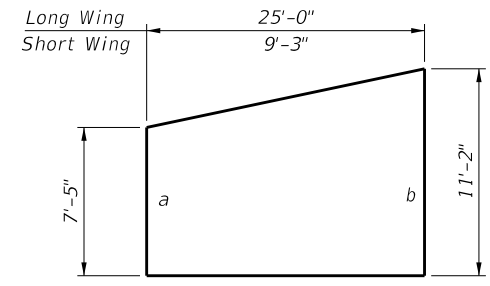
**STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 056-0310**

SCALE: N.T.S. SHEET 3 OF 9 SHEETS STA. XXX+XX TO STA. ---

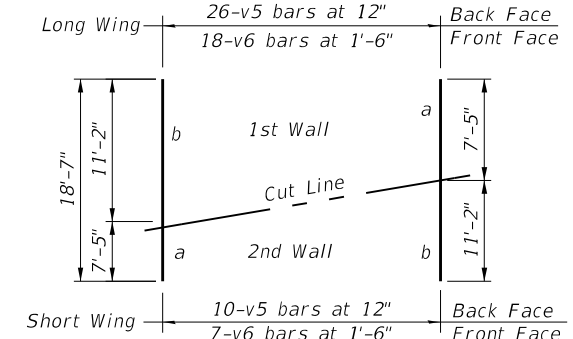
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105-N-2(15)	MCHENRY	805	578
			CONTRACT NO. 62B43	
ILLINOIS FED. AID PROJECT				



SECTION THRU BARREL
(At Right Angle)



PLACING DIAGRAM



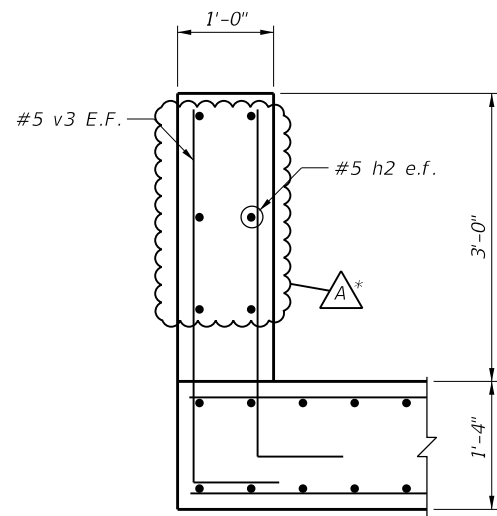
FIELD CUTTING DIAGRAM

Order bars shown full length. Cut as shown and use remainder of bars in opposite wingwall.

BILL OF MATERIAL

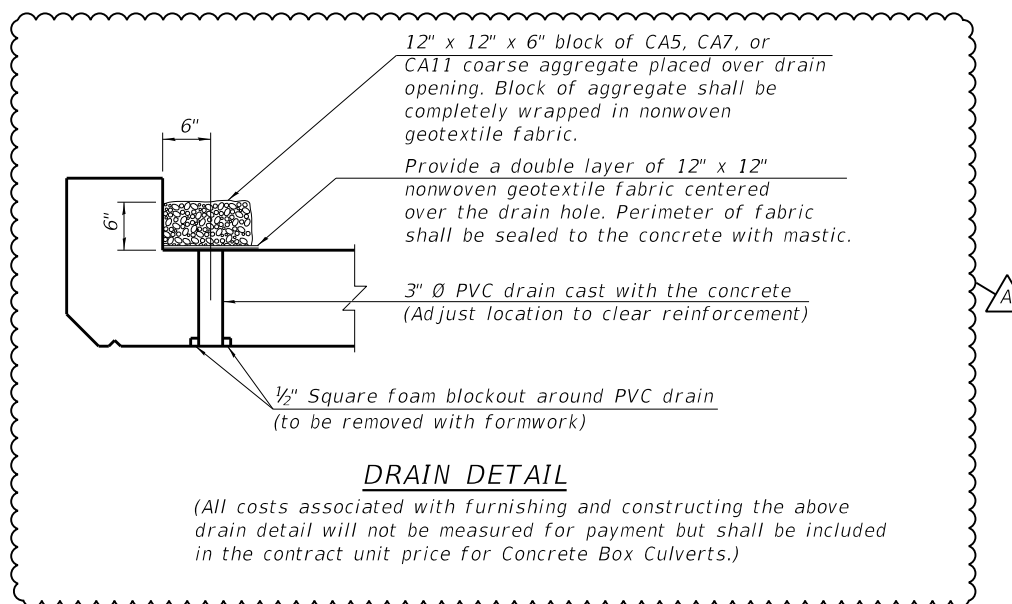
Bar	No.	Size	Length	Shape
a	1028	#8	40'-2"	—
a1	1022	#7	41'-10"	—
a2	18	#9	38'-8"	—
a3	12	#8	40'-2"	—
d	110	#4	5'-6"	—
h	1032	#5	29'-3"	—
h1	860	#5	31'-3"	—
h2	12	#5	8'-0"	—
h3	32	#4	8'-11"	—
h4	32	#4	24'-8"	—
h5	4	#5	4'-3"	—
h6	4	#5	4'-10"	—
h7	4	#5	4'-4"	—
h8	4	#5	5'-1"	—
n(E)	140	#6	5'-9"	—
s	80	#4	6'-9"	—
s1	40	#4	6'-8"	—
t	72	#6	7'-11"	—
t1	72	#5	6'-11"	—
v	802	#5	7'-6"	—
v1	1604	#5	5'-7"	—
v2	1812	#5	6'-4"	—
v3	24	#5	4'-9"	—
v4	604	#5	4'-8"	—
v5	36	#5	18'-7"	—
v6	25	#4	18'-7"	—
w	32	#4	8'-11"	—
w1	32	#4	24'-8"	—
Concrete Structures	Cu. Yd.		52.0	
Reinforcement Bars	Pound		296,360	
Reinforcement Bars, Epoxy Coated	Pound		1,210	
Bar Splicers	Each		172	
Concrete Box Culverts	Cu. Yd.		1,069.3	

Min. Lap #5 Bar=3'-2"



SECTION C-C

* Revised to show 3 h2 e.f.



DRAIN DETAIL

(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for Concrete Box Culverts.)

BAR t

BAR a1

BAR s

BAR s1

BAR d

BAR n(E)

BAR h2

BAR v1

BAR v3

BAR v4

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SECTION AND DETAILS
STRUCTURE NO. 056-0310

SCALE: N.T.S. SHEET 5 OF 9 SHEETS STA. 627+82 TO STA. ---

REVISED SHEET 2/28/2024

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105-N-2(15)	MCHENRY	805	580
			CONTRACT NO. 62B43	

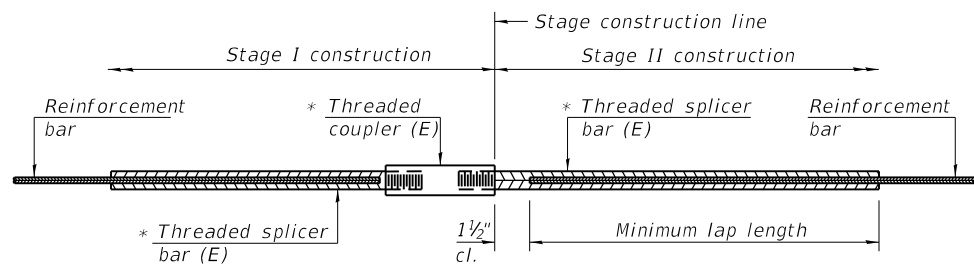
ILLINOIS FED. AID PROJECT

MODEL: D:\m\p\... FILE NAME: I:\DOT\170325\CBELLS\056-0310\DETAILS_170325-02.dwg

CB
CHRISTOPHER B. BURKE
ENGINEERING, LTD.
9575 W. HOGAN ROAD, SUITE 600
ROSEMONT, ILLINOIS 60018
(847) 823-0500

USER NAME = jbarrett
DESIGNED - AS
DRAWN - PDR
CHECKED - MM
DATE - SPLANDATES

REVISIONS:
2/23/2024
2/20/2024

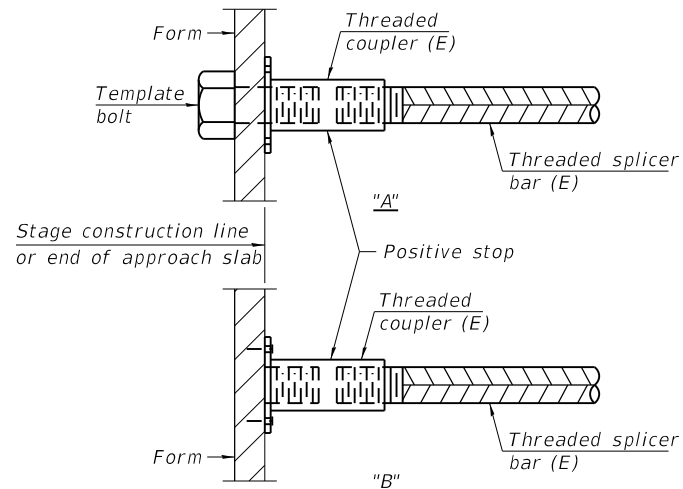


STANDARD BAR SPLICER ASSEMBLY

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

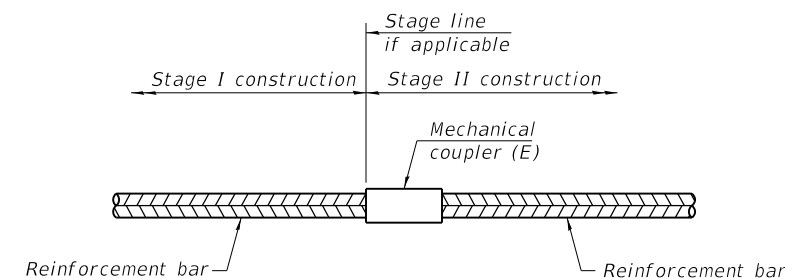
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
T&B Top Slab	#5	54	3'-2"
T&B Bottom Slab	#5	54	3'-2"
Walls	#5	64	3'-7"



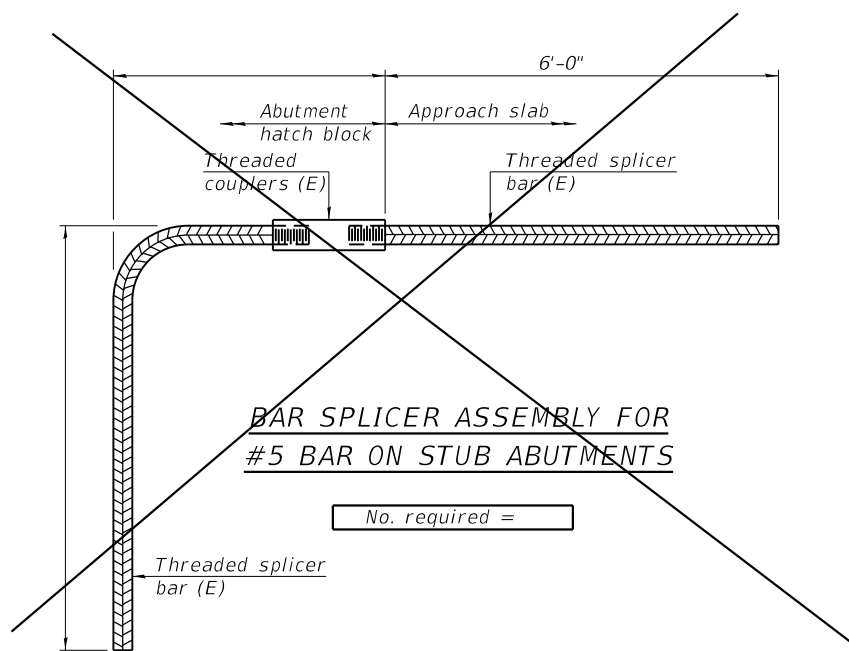
INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
 All reinforcement shall be lapped and tied to the splicer bars.
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1 2-17-2017

MODEL: D:\m\c... FILE NAME: I:\DOT\11035\CBELLS\056-0310\BARSPLICER.rvt

CB CHRISTOPHER B. BURKE ENGINEERING, LTD.
 9575 W. HOGGINS ROAD, SUITE 600
 ROSEMONT, ILLINOIS 60018
 (847) 823-0500

USER NAME = joarnett
 PLOT SCALE = 2.0000' / in.
 PLOT DATE = 2/20/2024

DESIGNED - AS
 DRAWN - PDR
 CHECKED - MM
 DATE - SPLANDATES

REVISED - A 2/23/2024
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

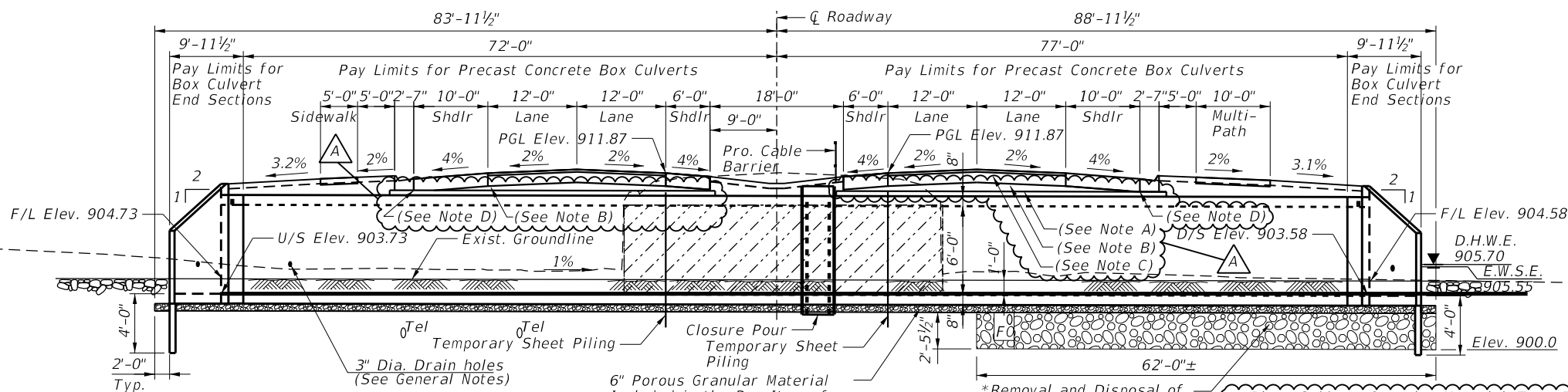
BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
 STRUCTURE NO. 056-0310

SCALE: N.T.S. SHEET 6 OF 9 SHEETS STA. 627+82 TO STA. ---

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105-N-2(15)	MCHENRY	805	581
			CONTRACT NO. 62B43	
ILLINOIS FED. AID PROJECT				

REVISOR'S MARK REVISION DATE
 1 REVISED SHEET 2/28/2024

Benchmark: BM #12, Set nail in top center of 15" CMP. Elev. 912.37
 Existing Structure: SN 056-0245 was built in 1936 as SBI 47 Section 105A. It is a single Box Culvert 6' x 6', 43'-0" Face to Face of Headwalls.
 Traffic Control: Traffic to be maintained utilizing Stage Construction.
 Salvage: None



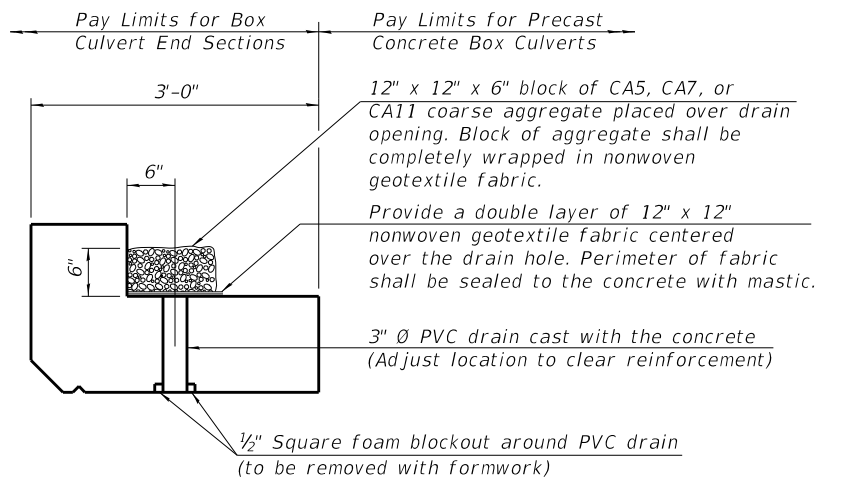
* The limits and quantities of removal and replacement shown are based on the boring data and may be modified by the District Geotechnical and Field Engineers for variable subsurface conditions encountered in the field.

The Rockfill shall be capped with 6 in. of CA7 and satisfy the Standard Specifications unless otherwise indicated in the Special Provisions. The cost of the capping material shall be included in the pay item for Rockfill.

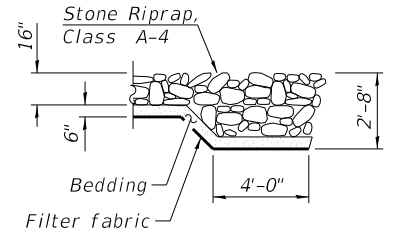
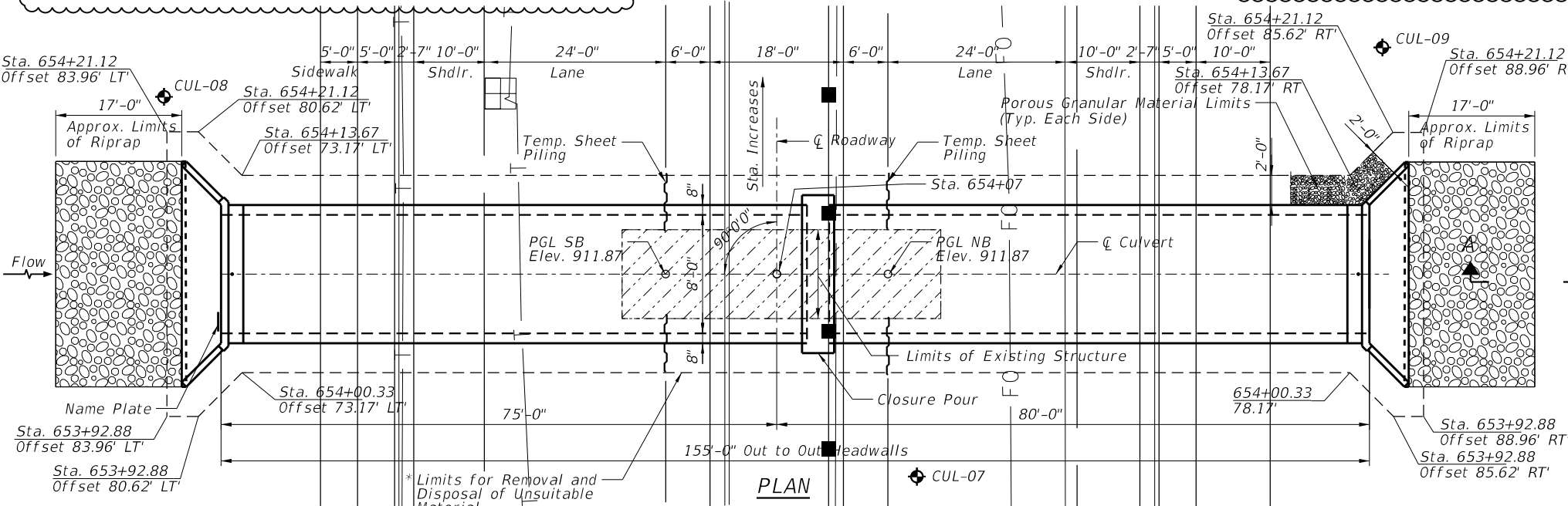
6" Porous Granular Material Included in the Pay Items for Box Culvert End Sections or Precast Concrete Box Culverts

* Removal and Disposal of Unsuitable Material and Replacement with Rockfill

- A. Place Subbase Granular Material, Type B 5" over structure. Do not use Aggregate Subgrade Improvement 12".
- B. Depth of HMA Binder Course Varies below HMA PVMT (FD) 10 1/2" for NB and SB pvmt.
- C. HMA Pvmt (FD) 10 1/2"
- D. Reduce thickness of HMA Binder Course under HMA Shoulders & Reduce thickness of Comb. C&G where necessary for NB and SB pavement.



(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)



SECTION A-A

DESIGN SPECIFICATIONS
 2020 AASHTO LRFD Bridge Design Specifications
 9th Edition

LOADING HL-93

Allow 50 #/sq. ft. for future wearing surface

DESIGN STRESSES

PRECAST UNITS

f'c = 5,000 psi
 fy = 65,000 psi (Welded Wire Reinforcement)

DESIGN SCOUR ELEVATION TABLE

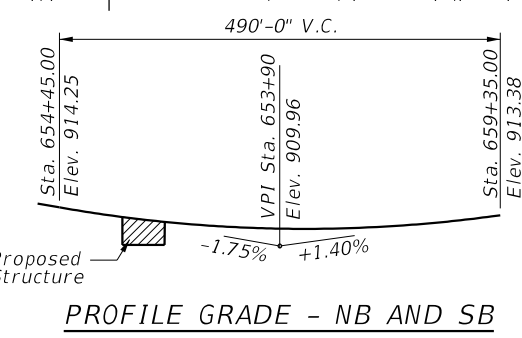
Design Scour Elev. (ft.)	D/S Inv.	U/S Inv.
78.17	899.58	899.73

WATERWAY INFORMATION

Drainage Area = 0.0603 sq. mi. Low Grade Elev. = 911.88 @ Sta. 654+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
	2	7.26	4.7	5.4	905.40	0.00	0.00	905.40	905.40
	10	14.10	5.7	6.6	905.55	0.16	0.28	905.71	905.83
Design	50	33.90	6.6	7.8	905.70	0.77	0.84	906.47	906.54
Base	100	50.00	7.1	8.4	905.78	1.18	1.22	906.96	907.00
Overtopping									
Max. Calc.	500	85.00	7.9	9.5	905.92	1.97	1.95	907.89	907.87

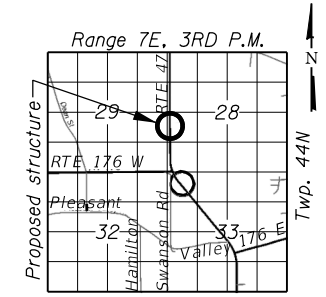
10-Year Velocity Through Existing Structure = 2.1 fps
 10-Year Velocity Through Proposed Structure = 2.8 fps



*year on nameplate shall be year culvert is constructed

STATION 654+07 BUILT 202X BY STATE OF ILLINOIS F.A.P. RT. 326 SEC. 105-N-2(15) LOADING HL-93 STR. NO. 056-0311

NAME PLATE
 See Std. 515001



GENERAL PLAN AND ELEVATION
 IL RTE. 47 OVER
 KISHWAUKEE RIVER TRIBUTARY
 F.A.P. RTE. 326 SEC 105-N-2(15)

McHENRY COUNTY
 STATION 654+07

S.N. 056-0311

REVISED SHEET 2/28/2024