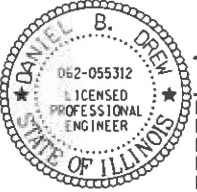


06-12-2026 LETTING ITEM 037
 FOR INDEX OF SHEETS, SEE SHEET NO. 2


STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2026-2181-C-HBK	LAKE	60	1
		ILLINOIS	CONTRACT NO. 80D46	

D-91-451-20

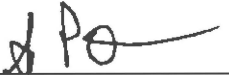


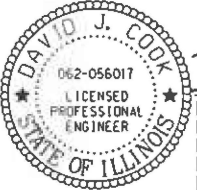
Daniel B. Drew, P.E.
 No. 62055312
 Expires: 11/2027
 Date: 3/20/2026
 For Sheets: All, except as noted below.






Spiros Pantazis, S.E.
 No. 081-006448
 Expires: 11/2026
 Date: 3/20/2026
 For Sheets: 44-49





David J. Cook, P.E.
 No. 062-056017
 Expires: 11/2027
 Date: 3/20/2026
 For Sheets: 36-37



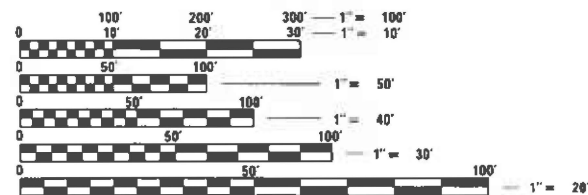
**PROPOSED
 HIGHWAY PLANS**

**FAP 346 (US ROUTE 41) DRAINAGE IMPROVEMENTS
 SECTION 2026-2181-C,HBK
 PROJECT NHPP-FQCS(181)
 BOX CULVERT & DRAINAGE IMPROVEMENTS
 LAKE COUNTY
 C-91-296-26**



PROJECT IS LOCATED IN
 THE VILLAGE OF LAKE BLUFF

WORK ON THIS PROJECT WILL CONSIST OF:
 CULVERT INSTALLATION; ROADWAY PATCHING,
 DRAINAGE IMPROVEMENTS, ROADSIDE GRADING
 AND LANDSCAPE RESTORATION.

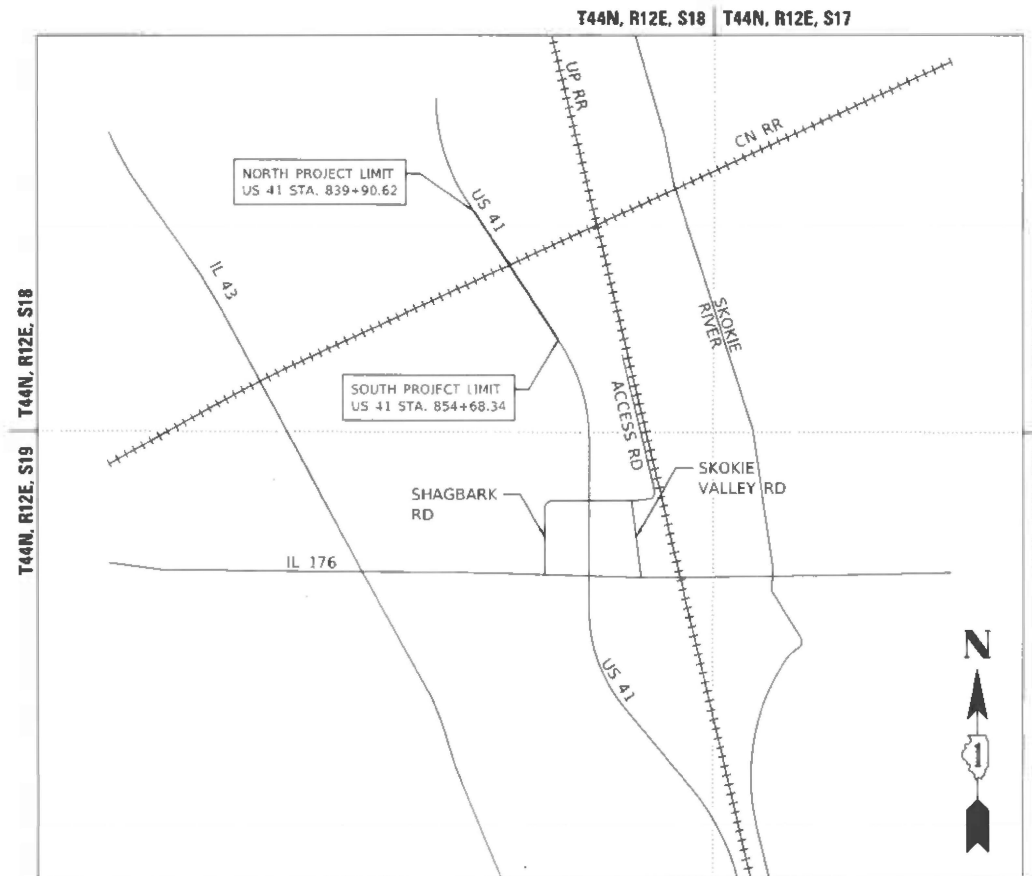


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD
 ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT
 CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS
 ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT MANAGER: SULEYMAN TULGAR, P.E.
 PROJECT ENGINEER: ANA ABREU

CONTRACT NO. 80D46

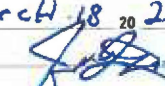


GROSS LENGTH = 1,477.72 FT. = 0.280 MILE
 NET LENGTH = 630.34 FT. = 0.119 MILE


US 41
 FUNCTIONAL CLASS.: PRINCIPAL ARTERIAL
 DESIGN SPEED: 60 MPH
 POSTED SPEED: 55 MPH
 ADT (2040): 55,000
 HV %: 8.0%

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

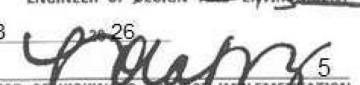
SUBMITTED March 18 20 26

 REGIONAL ENGINEER

May 8 20 26

 ENGINEER OF DESIGN AND ENVIRONMENT

May 8 20 26

 DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

TYLin
 200 S. WACKER DR. SUITE 1400
 CHICAGO, IL 60606
 TEL: 312-777-2900

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

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IDOT HIGHWAY STANDARDS

STD. NO.	STANDARD TITLE
000001-09	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
606001-09	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
642001-03	SHOULDER RUMBLE STRIPS, 16 IN.
664001-02	CHAIN LINK FENCE
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, GREATER THAN 15' AWAY
701421-08	LANE CLOSURE, MULTILANE, DAY OPERATION ONLY, FOR SPEEDS >= 45 MPH TO 55 MPH
701422-10	LANE CLOSURE, MULTILANE, FOR SPEEDS >= 45 MPH TO 55 MPH
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS >= 45 MPH
701901-11	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
780001-05	TYPICAL PAVEMENT MARKINGS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

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TYLin
 200 S. WACKER DR. SUITE 1400
 CHICAGO, IL 60606
 TEL: 312-777-2900

USER NAME = mark.gormely	DESIGNED - KDW	REVISED -
	DRAWN - KDW	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - MPG	REVISED -
PLOT DATE = 3/18/2026	DATE - 3/20/2026	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 41 AT IL 176 INTERCHANGE – ADVANCED DRAINAGE IMPROVEMENTS
INDEX OF SHEETS /INDEX OF STATE STANDARDS

SCALE: 1"=50' SHEET 1 OF 1 SHEETS STA. 838+00.00 TO STA. 863+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2026-2181-C.HBK	LAKE	60	2
ILLINOIS			FED. AID PROJECT	

CONTRACT NO. 80D46

GENERAL NOTES:

1. ALL REFERENCES TO "STANDARD SPECIFICATIONS" IN THESE GENERAL NOTES SHALL BE INTERPRETED TO MEAN "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION, JANUARY 1, 2022 AND THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS ADOPTED JANUARY 1, 2026.

ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION"; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS"; THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" (IMUTCD); THE "STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS" (SSTCI); THE DETAILS IN THE PLANS AND THE "SPECIAL PROVISIONS" INCLUDED IN THE CONTRACT DOCUMENTS.
2. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL SHOWN ON THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER.
3. THE CONTRACTOR SHALL MAINTAIN ALL ROADWAYS OPEN TO TRAFFIC AS SHOWN ON THE MAINTENANCE OF TRAFFIC PLANS.
4. PRIOR TO STARTING ANY EXCAVATION OR ANY OTHER CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL CALL J.U.L.I.E. AT (800) 892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, CABLE, AND GAS FACILITIES (48 HOURS NOTIFICATION IS REQUIRED). CONTACT THE APPLICABLE MUNICIPALITY FOR SEWER AND WATER LOCATIONS.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY IDOT AND/OR APPLICABLE MUNICIPALITY AT LEAST 10 DAYS IN ADVANCE OF ANY CONSTRUCTION NEAR IDOT OR MUNICIPALITY OWNED ELECTRICAL, COMMUNICATIONS, OR TRAFFIC CONTROL CABLES. IDOT AND/OR APPLICABLE MUNICIPALITY ELECTRICIANS WILL LOCATE ANY POSSIBLE INTERFERING CABLES.

NOTE: IDOT FACILITIES ARE NOT LOCATED BY JULIE OR DIGGER. IDOT ELECTRICAL FACILITIES INCLUDING ROADWAY LIGHTING, FIBER OPTIC, ITS EQUIPMENT, TRAFFIC SIGNAL AND PUMP STATION FACILITIES ARE LOCATED BY THE DEPARTMENT'S ELECTRICAL MAINTENANCE CONTRACTOR. AS OF THE LETTING DATE, CONTACT THE MEADE ELECTRIC COMPANY AT 773-287-7672.

IF THE CONTRACTOR CUTS OR DAMAGES ANY CABLES, EITHER THROUGH CARELESSNESS OR FAILURE TO FOLLOW THE ABOVE PROCEDURE, HE SHALL THEN BE HELD RESPONSIBLE FOR THE REPAIRING OF ALL DAMAGES AT HIS EXPENSE, TO THE SATISFACTION OF THE AGENCY.
5. ANY ITEM NOT CALLED FOR REMOVAL AND DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION WILL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
6. NIGHT OPERATIONS: IF CONTRACTOR ELECTS TO UTILIZE ARTIFICIAL LIGHTING IN NIGHT OPERATIONS, HE SHALL EXERCISE THE UTMOST PRECAUTION IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AS WELL AS THE ADJOINING RESIDENTIAL AREAS.
7. TWO WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS ON IDOT ROADS, THE ENGINEER SHALL CONTACT TRAFFIC FIELD ENGINEER AT BRANDY.KENNEDY@ILLINOIS.GOV.
8. ALL HORIZONTAL COORDINATES AND VERTICAL ELEVATIONS REFER TO NAD83 (CORS) ILLINOIS EAST ZONE HORIZONTAL DATUM AND NAVD88 VERTICAL DATUM, RESPECTIVELY.
9. 10 FT TRANSITIONS SHALL BE USED TO MATCH PROPOSED ITEMS OF WORK TO EXISTING ITEMS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEM OF WORK SPECIFIED.
10. THE SCALE SHOWN ON THE DRAWINGS APPLIES ONLY TO FULL SIZE PLANS AND NOT TO THE REDUCED SIZE PLANS.
11. DIMENSIONS: IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.
12. THE LOCATIONS OF EXISTING DRAINAGE STRUCTURES AND STORM LINES ARE APPROXIMATE, AND THE PLANS DO NOT GUARANTEE THEIR ACCURACY. THEIR EXACT HORIZONTAL AND VERTICAL LOCATIONS ARE TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR AT HIS OWN EXPENSE.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE AT THE CONTRACTOR'S EXPENSE.
14. ANY EXISTING OR PROPOSED STORM SEWER DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE REPLACED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
15. THE CONTRACTOR SHALL NOT OPEN OR SHUT ANY WATER VALVES OR FIRE HYDRANTS WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE OWNING MUNICIPALITY. UNAUTHORIZED USE IS SUBJECT TO ARREST AND PROSECUTION.
16. THE ENGINEER SHALL CONTACT KALPANA KANNAN-HOSADURGA, THE IDOT TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV AND THE MUNICIPALITIES A MINIMUM OF 72 HOURS PRIOR IN ADVANCE OF BEGINNING WORK.
17. THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATING NEAR ANY AND ALL EXISTING ITEMS THAT WILL NOT BE REMOVED. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S OWN EXPENSE.
18. ANY ABANDONED UTILITY OR SEWER ENCOUNTERED DURING CONSTRUCTION OR ANY EXISTING UTILITY OR SEWER ABANDONED AS PART OF THE CONSTRUCTION THAT IS NOT BEING FILLED WITH C.I.S.M., AS PER PLAN, SHALL BE PLUGGED AS DIRECTED BY THE ENGINEER AND ABANDONED IN PLACE. THIS WORK SHALL BE INCLUDED IN THE COST OF THE CONTRACT.

19. DURING CONSTRUCTION OPERATIONS, IF ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES SUCH THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, THE MATERIAL SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL UTILITY STRUCTURES SHALL BE FREE FROM DUST AND DEBRIS. THE WORK SPECIFIED ABOVE WILL NOT BE PAID SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE CONTRACT.
20. THE CONTRACTOR SHALL MAINTAIN THE SURFACE DRAINAGE OF ALL ROADWAYS DURING CONSTRUCTION OF THIS PROJECT. WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PRIVATE OR PUBLIC DRAINS, SEWERS, AND CATCH BASINS. HE SHALL PROVIDE FACILITIES TO TAKE IN ALL STORM WATER WHICH WILL BE RECEIVED BY THESE DRAINS AND SEWERS AND DISCHARGE THE SAME. HE SHALL PROVIDE AND MAINTAIN A PUMPING PLANT, IF NECESSARY, AND A TEMPORARY OUTLET AND BE PREPARED AT ALL TIMES TO DISPOSE OF THE WATER RECEIVED FROM THESE TEMPORARY CONNECTIONS UNTIL SUCH TIME AS THE PERMANENT CONNECTIONS WITH SEWERS ARE BUILT AND IN SERVICE. THIS WORK SHALL BE INCLUDED IN THE COST OF THE CONTRACT.
21. FENCE: EXISTING FENCE THAT HAS TO BE DISCONNECTED AND/OR REMOVED FOR THE CONTRACTOR'S OPERATION SHALL BE RECONNECTED AND/OR REPLACED BY THE CONTRACTOR IN KIND AT NO ADDITIONAL COST TO IDOT. TEMPORARY FENCE SHOULD BE INSTALLED IF EXISTING FENCE IS REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH SECTION 664 OF THE STANDARD SPECIFICATIONS. ANY RIGHT-OF-WAY MARKERS DISTURBED BY THE CONTRACTOR'S OPERATION SHALL BE REESTABLISHED BY A REGISTERED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
22. THE CONTRACTOR SHALL TAKE ALL NECESSARY SAFETY PRECAUTIONS TO PROTECT AND PROVIDE ACCESS TO ABUTTING PROPERTY, UTILITIES, PEDESTRIANS, AND VEHICULAR TRAFFIC.
23. NO PAYMENT WILL BE MADE FOR RESTORATION BEYOND THE LIMITS SHOWN ON THE PLANS.
24. ANY EXISTING UTILITY ADJUSTMENT AGREEMENTS AND SCHEDULES FOR THE ADJUSTMENT OF UTILITIES, WHICH MAY AFFECT THE WORK, WILL BE MADE AVAILABLE TO THE BIDDERS UPON REQUEST.
25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING AND PRESERVING THE PROJECT'S SURVEY CONTROL POINTS AND BENCHMARKS. RELOCATING AND REPLACING CONTROL POINTS AND BENCHMARKS SHALL BE THE CONTRACTOR'S RESPONSIBILITY AT HIS OWN EXPENSE.
26. ALL TRENCHES AND OPENINGS MADE IN THE ROADWAY SHALL BE BACKFILLED AND ADEQUATELY COMPACTED IN ACCORDANCE WITH METHOD I SPECIFIED IN ARTICLE 550.07 OF THE STANDARD SPECIFICATIONS.
27. EXISTING DRAINAGE STRUCTURES, EXISTING STORM SEWERS AND EXISTING FLARED END SECTIONS TO REMAIN SHALL BE RECONNECTED WITH THE DRAINAGE SYSTEM. THIS WORK SHALL BE INCLUDED IN THE COST OF DRAINAGE STRUCTURES OR STORM SEWERS, OF THE TYPE AND SIZE SPECIFIED.
28. ALL VEHICLES INCLUDING PASSENGER CARS, WHETHER OWNED BY THE CONTRACTOR OR ANYONE REPRESENTING HIM, SHALL BE EQUIPPED WITH A YELLOW FLASHING LIGHT MOUNTED EITHER ON TOP OR IN THE REAR WINDOW OF THE VEHICLE AND VISIBLE FOR AT LEAST 500 FEET TO THE REAR OF THE VEHICLE, AND A SIGN MUST BE DISPLAYED ON EACH SIDE OF THE VEHICLE AND WITH LETTERS AT LEAST 3 INCHES IN HEIGHT AND WITH A SUITABLE STROKE, SHOWING THE COMPANY NAME AND ADDRESS. MAGNETIC OR TEMPORARY SIGNS ARE ACCEPTABLE.
29. DISTRIBUTERS: ALL DISTRIBUTERS FOR HOT-MIX ASPHALT PAVING OPERATIONS SHALL BE EQUIPPED WITH SHIELDS TO PREVENT DAMAGE TO MOTORISTS' VEHICLES AND TO ADJACENT HIGHWAY APPURTENANCES.
30. FLOURESCENT VEST AND HARD HATS: ALL CONSTRUCTION PERSONNEL WILL BE REQUIRED TO WEAR ANSI CLASS II FLOURESCENT ORANGE, FLOURESCENT YELLOW/GREEN OR A COMBINATION OF FLOURESCENT ORANGE AND FLOURESCENT YELLOW/GREEN VESTS AND HARD HATS AT ALL TIMES WHILE ON THE CONSTRUCTION SITE.
31. AT THE TIME OF THE PRECONSTRUCTION CONFERENCE, THE CONTRACTOR SHALL SUBMIT FOR APPROVAL, THE PROPOSED CONCRETE TRUCK WASH OUT LOCATIONS. RUNOFF FROM WASH AREAS SHALL BE CONTAINED IN THE DESIGNATED AREAS SO THAT RUNOFF DOES NOT REACH THE STORM SEWER OR DITCH SYSTEMS.
32. POLLUTION CONTROL: THE CONTRACTOR WILL BE REQUIRED TO COMPLY WITH ALL FEDERAL AND STATE REGULATIONS REGARDING AIR, WATER, AND NOISE POLLUTION. HE WILL NOT BE ALLOWED TO BUILD FIRES IN THE SITE.
33. DURING CONSTRUCTION OPERATIONS THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT ADJACENT TRAVEL LANES FROM DEBRIS BLOWN OR OTHERWISE REMOVED FROM THE CONSTRUCTION AREAS. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR KEEPING DEBRIS OFF THE TRAVELED LANE SURFACES. THIS WORK SHALL BE INCIDENTAL TO THE CONTRACT.
34. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING HIS CONSTRUCTION OPERATIONS WITH CONSTRUCTION AND MAINTENANCE OPERATIONS, INCLUDING UTILITY RELOCATIONS AND ADJUSTMENTS, OF OTHER CONTRACTORS WORKING WITHIN THE LIMITS OF THE PROJECTS AND ADJACENT TO THE PROJECT.
35. THE CONTRACTOR'S OPERATIONS AND TEMPORARY STORAGE ACTIVITIES SHALL BE LIMITED TO THE WORK AREA AND/OR CONSTRUCTION LIMITS. ANY ADDITIONAL STAGING AREAS ADJACENT TO THE PROJECT ARE SUBJECT TO THE APPROVAL BY THE APPROPRIATE AGENCY.
36. NO ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR COMPLIANCE WITH THE ABOVE REQUIREMENTS. THE CONTRACTOR MUST GET ADVANCED APPROVAL FOR A STAGING AREA WITH ACCESS LOCATIONS CLEARLY DEFINED.
37. THE CONTRACTOR IS REQUIRED TO OBTAIN ALL NECESSARY PERMITS AND WRITTEN AUTHORIZATION FROM ALL GOVERNING AGENCIES FOR CONSTRUCTION ABOVE, ADJACENT TO AND ON ROADWAYS UNDER THEIR JURISDICTION.

38. FULL DEPTH SAW CUTS WILL BE REQUIRED FOR ALL REMOVAL ITEMS. SAW CUTTING WILL BE INCLUDED IN THE APPROPRIATE PAY ITEM.
39. THE CONTRACTOR'S PERSONNEL AND EQUIPMENT SHALL ONLY BE PERMITTED TO ENTER AND LEAVE IDOT HIGHWAYS VIA EXISTING ROADWAYS AND SHALL BE REQUIRED TO MOVE IN THE DIRECTION OF PUBLIC TRAFFIC. ALL MOVEMENTS ON OR ACROSS THE PUBLICLY TRAVELED RIGHT-OF-WAY SHALL BE CONTROLLED BY THE CONTRACTOR SO AS NOT TO ENDANGER PUBLIC TRAFFIC.
40. AT ANY TIME WHEN, IN THE JUDGEMENT OF THE ENGINEER, THE CONTRACTOR HAS OBSTRUCTED OR CLOSED A ROAD OR IS CARRYING ON OPERATIONS CAUSING GREATER INTERFERENCE OR INCONVENIENCE THAN NECESSARY FOR THE PROPER PROSECUTION OF THE WORK, THE ENGINEER MAY REQUIRE THE CONTRACTOR TO FINISH THE SECTION OF THE WORK WHICH IS IN PROGRESS BEFORE WORK IS STARTED ON ANY ADDITIONAL SECTION AND, IN ADDITION THERETO, MAY REQUIRE THE CONTRACTOR TO TAKE ANY OTHER ACTIONS WHICH WILL MINIMIZE INCONVENIENCE TO VEHICULAR AND PEDESTRIAN TRAFFIC.
41. UPON COMPLETION OF THE WORK AND BEFORE ACCEPTANCE AND FINAL PAYMENT WILL BE MADE, THE AGENCY RIGHT-OF-WAY, STREAM CHANNELS AND BANKS WITHIN SAID RIGHT-OF-WAY OR AFFECTED BY THE WORK AT DRAINAGE STRUCTURES, BORROW PITS, OTHER STRUCTURES, AND ALL AREAS OCCUPIED BY THE CONTRACTOR IN CONNECTION WITH THE WORK SHALL BE CLEANED OF ALL RUBBISH, EXCESS MATERIALS, FALSE WORK, TEMPORARY PAVING, TEMPORARY STRUCTURES, AND EQUIPMENT. ALL PARTS OF THE WORK SHALL BE LEFT IN NEAT AND PRESENTABLE CONDITION IN ACCORDANCE WITH THIS SUB-SECTION.
42. FOR WORK OUTSIDE THE LIMITS OF BRIDGE APPROACH PAVEMENT, ALL REFERENCES IN THE HIGHWAY STANDARDS AND STANDARD SPECIFICATIONS FOR REINFORCEMENT, DOWEL BARS AND TIE BARS IN PAVEMENT, SHOULDERS, CURB, GUTTER, COMBINATION CURB & GUTTER AND MEDIAN SHALL BE EPOXY COATED, UNLESS NOTED ON THE PLANS.
43. AGGREGATE SUBGRADE IMPROVEMENT 12" (30300112) SHALL CONSIST OF A COMBINATION OF A 9" THICK POROUS GRANULAR EMBANKMENT WITH A 3" CA-6 AGGREGATE CAP. THE AGGREGATE GRADATION FOR THE AGGREGATE SUBGRADE IMPROVEMENT 12" LOWER LIFT SHALL BE CS 1 OR RR 1.
44. ANY AGGREGATE SUBGRADE IMPROVEMENT CONTAMINATED AND/OR DAMAGED BY THE CONTRACTOR'S VEHICLES AND/OR EQUIPMENT IS TO BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER AT CONTRACTOR'S EXPENSE.
45. PLEASE CONTACT THE ROADSIDE DEVELOPMENT UNIT AT (847) 705-4171 AT LEAST 72 HOURS IN ADVANCE OF BOTH TREE CLEARING WORK AND WEED CONTROL WORK.
46. 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.
47. 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.
48. 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 INSTREAM 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.
49. PAVEMENT MARKING TAPE, TYPE IV SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES.

CONTACT INFORMATION

IDOT TRAFFIC FIELD TECHNICIAN (847) 705-4153

MUNICIPALITY:
SHIELDS TOWNSHIP
VILLAGE OF LAKE BLUFF

CONTACT INFORMATION:
(847) 234-0802 MUNICIPAL SERVICES
PUBLIC WORKS DEPARTMENT

MODEL: Default
FILE NAME: D:\80D46-ctc-gp-080401.dgn

 200 S. WACKER DR. SUITE 1400 CHICAGO, IL 60606 TEL: 312-777-2900	USER NAME = mark.gormely	DESIGNED - KDW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US 41 AT IL 176 INTERCHANGE – ADVANCED DRAINAGE IMPROVEMENTS				F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100,0000' / in.	CHECKED - MPG	REVISED -						346	2026-2181-C_HBK	LAKE	60	3
	PLOT DATE = 3/23/2026	DATE - 3/20/2026	REVISED -		GENERAL NOTES				CONTRACT NO. 80D46				
					SCALE: 1"=50'	SHEET 1	OF 1	SHEETS	STA. N/A	TO STA. N/A	ILLINOIS / FED. AID PROJECT		

* - SPECIALTY ITEM

PAY ITEM NUMBER	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				ROADWAY RECONSTRUCTION	BRIDGE, NEW CONSTRUCTION
				0004	0004
20101000	TEMPORARY FENCE	FOOT	673	673	
×	20101300	TREE PRUNING (1 TO 10 INCH DIAMETER)	EACH	5	5
×	20101350	TREE PRUNING (OVER 10 INCH DIAMETER)	EACH	5	5
20200100	EARTH EXCAVATION	CU YD	760	760	
×	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	106	106
20700220	POROUS GRANULAR EMBANKMENT	CU YD	107		107
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	83	83	
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	319	319	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	1,204	1,204	
21400100	GRADING AND SHAPING DITCHES	FOOT	505	505	
×	25000210	SEEDING, CLASS 2A	ACRE	0.75	0.75
×	25000314	SEEDING, CLASS 4B	ACRE	0.25	0.25
×	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	70	70
×	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	70	70
×	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	70	70
×	25000750	MOWING	ACRE	0.75	0.75
^	25100115	MULCH, METHOD 2	ACRE	1.00	1.00
×	25100630	EROSION CONTROL BLANKET	SQ YD	3,722	3,722
^	25200110	SODDING, SALT TOLERANT	SQ YD	76	76

* SPECIALTY ITEM

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FILE NAME: D:\80D46-500-H101.dgn

TYLin
200 S. WACKER DR. SUITE 1400
CHICAGO, IL 60606
TEL: 312-777-2900

USER NAME = mark.gormely	DESIGNED - BLG	REVISED -
	DRAWN - BLG	REVISED -
PLOT SCALE = 20,0000 */ in.	CHECKED - MPG	REVISED -
PLOT DATE = 3/23/2026	DATE - 3/20/2026	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US 41 AT IL 176 INTERCHANGE - ADVANCED DRAINAGE IMPROVEMENTS
SUMMARY OF QUANTITIES**

SCALE: N.T.S. SHEET 1 OF 5 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2026-2181-C.HBK	LAKE	60	4
ILLINOIS FED. AID PROJECT			CONTRACT NO. 80D46	

* - SPECIALTY ITEM

PAY ITEM NUMBER	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				ROADWAY RECONSTRUCTION	BRIDGE, NEW CONSTRUCTION
				0004	0004
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	80	80	
28000305	TEMPORARY DITCH CHECKS	FOOT	21	21	
28000400	PERIMETER EROSION BARRIER	FOOT	1,067	1,067	
28000500	INLET AND PIPE PROTECTION	EACH	2	2	
28001100	TEMPORARY EROSION CONTROL BLANKET	SQ YD	3,785	3,785	
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	28	28	
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	412	412	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	264	264	
40600370	LONGITUDINAL JOINT SEALANT	FOOT	240	240	
40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	22	22	
40605026	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80	TON	78	78	
42001300	PROTECTIVE COAT	SQ YD	59	59	
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	193	193	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	76	76	
44001980	CONCRETE BARRIER REMOVAL	FOOT	38	38	
44201449	CLASS C PATCHES, TYPE IV, 18 INCH	SQ YD	371	371	
50102400	CONCRETE REMOVAL	CU YD	1.1		1.1
50200100	STRUCTURE EXCAVATION	CU YD	351		351
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	42		42

* SPECIALTY ITEM

MODEL: D:\p4\h...
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	DATE - 3/20/2026	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US 41 AT IL 176 INTERCHANGE - ADVANCED DRAINAGE IMPROVEMENTS
SUMMARY OF QUANTITIES**

SCALE: N.T.S. SHEET 2 OF 5 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2026-2181-C.HBK	LAKE	60	5
ILLINOIS FED. AID PROJECT			CONTRACT NO. 80D46	

REV-SEP

* - SPECIALTY ITEM

PAY ITEM NUMBER	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				ROADWAY RECONSTRUCTION	BRIDGE, NEW CONSTRUCTION
				0004	0004
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	880		880
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	620		620
54003000	CONCRETE BOX CULVERTS	CU YD	6.1		6.1
54010503	PRECAST CONCRETE BOX CULVERTS 5' X 3'	FOOT	130		130
542D1057	PIPE CULVERTS, CLASS D, TYPE 2 12"	FOOT	40	40	
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	2	2	
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	76.0	76.0	
60920024	PIPE CULVERTS TO BE CLEANED 24"	FOOT	62	62	
63700280	CONCRETE BARRIER, DOUBLE FACE, 44 INCH HEIGHT	FOOT	38	38	
63700900	CONCRETE BARRIER BASE	FOOT	38	38	
64200116	SHOULDER RUMBLE STRIPS, 16 INCH	FOOT	2,475	2,475	
x 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	500	500	
x 66900530	SOIL DISPOSAL ANALYSIS	EACH	2	2	
x 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1	
x 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1	
x 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	15	15	
67100100	MOBILIZATION	L SUM	1	1	
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	242	242	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	3,520	3,520	

* SPECIALTY ITEM

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US 41 AT IL 176 INTERCHANGE - ADVANCED DRAINAGE IMPROVEMENTS
SUMMARY OF QUANTITIES**

SCALE: N.T.S. SHEET 3 OF 5 SHEETS STA. N/A TO STA. N/A

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2026-2181-C.HBK	LAKE	60	6
ILLINOIS FED. AID PROJECT			CONTRACT NO. 80D46	

REV-SEP

* - SPECIALTY ITEM

PAY ITEM NUMBER	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				ROADWAY RECONSTRUCTION	BRIDGE, NEW CONSTRUCTION
				0004	0004
70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	FOOT	14,079	14,079	
×	70400100	TEMPORARY CONCRETE BARRIER	FOOT	637.5	637.5
×	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1,037.5	1,037.5
	70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2
	70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2
✓	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	8,723	8,723
×	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	124	124
×	78004630	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LINE 6"	FOOT	1,090	1,090
×	78011035	GROOVING FOR RECESSED PAVEMENT MARKING 7"	FOOT	1,090	1,090
×	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	4	4
×	78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	3	3
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	4	4
	78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	2,454	2,454
×	B2000766	TREE, AMELANCHIER X GRANDIFLORA AUTUMN BRILLIANCE (AUTUMN BRILLIANCE SERVICE BERRY), 6' HEIGHT, SHRUB FORM, BALLED AND BURLAPPED	EACH	3	3
×	C2000436	SHRUB, ARONIA ARBUTIFOLIA BRILLIANT ISSIMA (BRILLANT RED CHOKEBERRY), 3' HEIGHT, BALLED AND BURLAPPED	EACH	95	95
×	K0036118	MULCH PLACEMENT 3"	SQ YD	20	20
	X5420112	ELASTOMERIC CHECK VALVE 12" DIAMETER	EACH	1	1
	X6061462	CLEANING PAVED DITCH	FOOT	147	147
	X6420100	SHOULDER RUMBLE STRIP REMOVAL	SQ YD	826	826

* SPECIALTY ITEM

MODEL PATH: D:\80D46-500-1104.dgn

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US 41 AT IL 176 INTERCHANGE - ADVANCED DRAINAGE IMPROVEMENTS
SUMMARY OF QUANTITIES**

SCALE: N.T.S. SHEET 4 OF 5 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2026-2181-C.HBK	LAKE	60	7
ILLINOIS FED. AID PROJECT			CONTRACT NO. 80D46	

REV-SEP

EARTHWORK SCHEDULE

LOCATION	SEE US 41 EARTHWORK TABLE (AT RIGHT)		STRIPPING COMPONENT (TOPSOIL/ UNSUITABLE REMOVAL)* (C)	EARTH EXCAVATION (20200100) (E = A-C)	STRUCTURE EXCAVATION** (50200100)	TOTAL EXCAVATION (ADJUSTED FOR SHRINKAGE***)	EMBANKMENT (=B)	EARTHWORK BALANCE (WASTE(+) OR SHORTAGE(-))	FURNISHED EXCAVATION (20400800)	REM & DISP UNSUITABLE MATERIAL* (20201200)	REM & DISP UNSUITABLE MATERIAL FOR STRUCTURES** (50200450)		
	CUT VOLUME (A)	FILL VOLUME (B)											
	FROM STA.	TO STA.	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)		
TOTAL EARTHWORK													
US ROUTE 41 - CULVERT	839+94	840+29	321.2	216.9	50	275	351	535	220	315	0	12	42
US ROUTE 41 - WEST GRADING	840+93	843+00	131.2	207.8	120	15	0	15	210	-195	0	30	0
US ROUTE 41 - EAST GRADING	850+77	854+70	724.3	375.5	255	470	0	400	380	20	0	64	0
GRAND TOTAL					425	760	351	950	810	140	0	106	42

* SEE TOPSOIL SCHEDULE BELOW
 ** SEE STRUCTURAL PLANS
 *** SHRINKAGE FACTOR OF 0.15 APPLIED PER IDOT D1 MATERIALS GROUP

TOPSOIL SCHEDULE

LOCATION	TOPSOIL NEED (SEE NOTE 1)				STRIPPING (SEE NOTE 2)				TOPSOIL BALANCE (SEE NOTE 3)				
	FROM		TO		AREA (SQ FT)	VOLUME (4" DEPTH) (CU YD)	AREA (SQ FT)	VOLUME (4" DEPTH) (CU YD)	AVAILABLE TOPSOIL (CU YD) (C = Bx75%)	UNSUITABLE MATERIAL** (CU YD) (D = Bx25%)	TOPSOIL SHORTAGE (CU YD) (E = A-C)	TOPSOIL F&P 4" (21101615) (SQ YD) = E	TOPSOIL EXC & PL (21101505) (CU YD) = C
	STATION	OFFSET	STATION	OFFSET									
ALIGNMENT													
US 41 - CULVERT E	839+84.8	LT	840+38.8	LT	1831	25	1831	25	19	6	6	54	19
US 41 - CULVERT W	839+84.8	RT	840+38.8	RT	1727	25	1727	25	19	6	6	54	19
US 41 - GRADING W	840+38.8	RT	843+07.1	RT	9364	120	9364	120	90	30	30	270	90
US 41 - GRADING E	849+58.5	LT	854+64.2	LT	20585	255	20585	255	191	64	64	576	191
NOMINAL QUANTITY*	N/A		N/A									250	
TOTALS						425		425	319	106	106	1204	319

NOTE 1: TOPSOIL NEED - MEASUREMENT OF PROPOSED LANDSCAPED AREA WITHIN GRADING LIMIT (SEE LANDSCAPING PLANS). * NOMINAL QUANTITY FOR USE AS NEEDED OUTSIDE OF THE GRADING LIMITS.
 NOTE 2: STRIPPING COMPONENT - MEASUREMENT OF EXISTING UNPAVED AREA WITHIN THE PROPOSED GRADING LIMIT. ASSUME 75% IS USABLE AVAILABLE TOPSOIL AND 25% IS UNSUITABLE. ** REPORTED IN EARTHWORK TABLE.
 NOTE 3: TOPSOIL SHORTAGE IS FULFILLED WITH "TOPSOIL FURNISH & PLACE, 4". * AN ADDITIONAL NOMINAL QUANTITY IS PROVIDED FOR USE OUTSIDE OF THE GRADING AREAS.

EARTHWORK TABLE - US 41

STATION	CUT VOLUME		FILL VOLUME	
	AREA (SQ FT)	VOLUME (CU YD)	AREA (SQ FT)	VOLUME (CU YD)
CULVERT				
840+06.25	N/A	321.2	N/A	216.9
SUB TOTAL		321.2		216.9
WEST GRADING (BERM)				
840+93.00	0.0	4.2	0.0	0.0
841+00.00	32.2	36.8	0.3	55.3
841+50.00	7.5	14.6	59.4	97.3
842+00.00	8.3	23.0	45.7	48.6
842+50.00	16.5	52.7	6.8	6.6
843+00.00	40.4	0.3		
SUB TOTAL		131.2		207.8
EAST GRADING (BERM AND DITCH)				
850+77.00	82.8	65.8	4.7	5.6
851+00.00	71.8	87.5	8.5	131.6
851+50.00	22.7	63.5	133.6	123.7
852+00.00	45.9	74.7	0.0	3.5
852+50.00	34.8	61.9	3.8	48.3
853+00.00	32.0	83.9	48.4	49.2
853+50.00	58.6	106.5	4.7	9.0
854+00.00	56.4	119.2	5.0	4.6
854+50.00	72.3	61.3	0.0	0.0
854+70.00	93.3	0.0	0.0	0.0
SUB TOTAL		724.3		375.5

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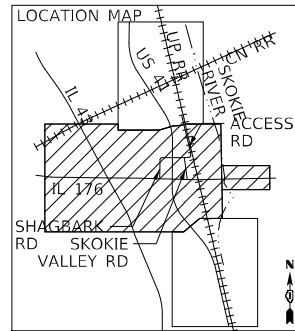
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PLOT DATE = 3/18/2026	DATE - 3/20/2026	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US 41 AT IL 176 INTERCHANGE - ADVANCED DRAINAGE IMPROVEMENTS
EARTHWORK TABLES - US 41 AND SUMMARY SCHEDULE**

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE. 346	SECTION 2026-2181-C.HBK	COUNTY LAKE	TOTAL SHEETS 60	SHEET NO. 9
ILLINOIS FED. AID PROJECT			CONTRACT NO. 80D46	



IL RTE 43 ALIGNMENT

SOUTH OF IL RTE 176		PROP. CURVE PR_IL43S_3		NORTH OF IL RTE 176	
P.O.T. STA = 482+00.00	N = 2,043,250.40	P.I. STA = 485+36.74	N = 2,043,571.07	P.O.T. STA = 500+00.00	N = 2,044,853.35
	E = 1,108,127.83		E = 1,108,025.06		E = 1,107,319.93
P.I. STA = 496+76.69	N = 2,044,569.78		Δ = 11° 09' 26.33" (LT)	P.O.T. STA = 519+00.00	N = 2,046,528.59
	E = 1,107,473.10		D = 3° 06' 50.04"		E = 1,106,423.52
			R = 1,840.00		
			L = 358.31		
P.O.T. STA = 500+00.00	N = 2,044,853.36		T = 179.72		
	E = 1,107,317.82		P.C. STA = 483+57.02		
			N = 2,043,399.93		
			E = 1,108,079.91		
			P.T. STA = 487+15.33		
			N = 2,043,728.37		
			E = 1,107,938.12		

ACCESS RD ALIGNMENT

P.O.T. STA = 199+93.00	N = 2,045,524.83	E = 1,109,468.72	P.I. STA = 204+01.75	N = 2,045,525.06	E = 1,109,877.47	P.O.T. STA = 221+00.00	N = 2,047,019.34	E = 1,109,755.26
PROP. CURVE PR_ACC-RD_6	P.I. STA = 206+06.24	N = 2,045,546.18	E = 1,110,080.87	Δ = 84° 01' 15.48" (LT)	D = 114° 35' 29.61"	R = 50.00	L = 73.32	T = 45.04
PROP. CURVE PR_ACC-RD_5	P.I. STA = 206+75.22	N = 2,045,631.91	E = 1,110,080.94	Δ = 13° 15' 41.31" (LT)	D = 16° 22' 12.80"	R = 350.00	L = 81.01	T = 40.69
P.C. STA = 205+61.21	N = 2,045,541.53	E = 1,110,036.07	P.T. STA = 206+34.53	N = 2,045,591.22	E = 1,110,080.91	P.C. STA = 206+34.53	N = 2,045,591.22	E = 1,110,071.65

IL RTE 176 ALIGNMENT

P.O.T. STA = 84+00.00	N = 2,044,865.26	E = 1,105,873.71	P.I. STA = 87+63.18	N = 2,044,863.24	E = 1,106,236.89	P.I. STA = 94+57.28	N = 2,044,855.34	E = 1,106,930.94
			Δ = 1° 28' 42.14" (RT)	D = 0° 15' 00.00"	R = 22,918.31	L = 591.35	E = 1.91	T = 295.69
			P.C. STA = 105+49.41	N = 2,044,849.76	E = 1,108,023.06	P.T. STA = 111+40.76	N = 2,044,839.10	E = 1,108,614.30

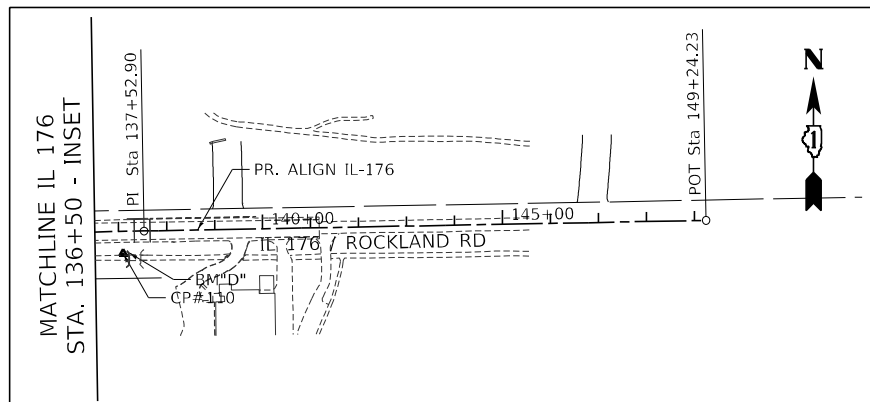
PROP. CURVE PR_IL176_7	P.I. STA = 108+45.10	N = 2,044,848.24	E = 1,108,318.75	D = 0° 15' 00.00"	R = 22,918.31	L = 591.35	E = 1.91	T = 295.69
PROP. CURVE PR_IL176_10	P.I. STA = 126+59.61	N = 2,044,792.16	E = 1,110,132.42	Δ = 2° 45' 41.42" (LT)	D = 0° 30' 00.00"	R = 11,459.16	L = 552.30	E = 3.33

SHAGBARK RD ALIGNMENT

P.O.T. STA = 0+00.00	N = 2,044,825.55	E = 1,109,052.72	P.I. STA = 10+84.42	N = 2,045,524.83	E = 1,109,468.72	P.O.T. STA = 6+99.47	N = 2,045,525.01	E = 1,109,056.16
			Δ = 89° 44' 35.58" (RT)	D = 88° 08' 50.47"	R = 65.00	L = 101.81	E = 26.72	T = 64.71
			P.C. STA = 6+34.76	N = 2,045,460.30	E = 1,109,055.84	P.T. STA = 7+36.57	N = 2,045,524.98	E = 1,109,120.87

SKOKIE VALLEY RD ALIGNMENT

P.O.T. STA = 0+00.00	N = 2,044,797.62	E = 1,109,963.13	P.O.T. STA = 7+32.47	N = 2,045,525.06	E = 1,109,877.47
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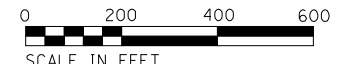
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200 S. WACKER DR. SUITE 1400
CHICAGO, IL 60606
TEL: 312-777-2900

USER NAME = mark.gormely	DESIGNED - BLG	REVISED -
PLOT SCALE = 400,0000' / in.	DRAWN - MPG	REVISED -
PLOT DATE = 3/18/2026	CHECKED - MPG	REVISED -
	DATE - 3/20/2026	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

US 41 AT IL 176 INTERCHANGE - ADVANCED DRAINAGE IMPROVEMENTS
ALIGNMENT: PLAN
SCALE: 1"=200' SHEET 1 OF 2 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2026-2181-C.HBK	LAKE	60	10
CONTRACT NO. 80D46				
ILLINOIS FED. AID PROJECT				



MATCHLINE IL 176 STA. 136+50 - INSET

MATCHLINE US 41 STA. 860+00 - SHT 2
MATCHLINE ACCESS RD STA. 217+00 - SHT 2



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200 S. WACKER DR. SUITE 1400
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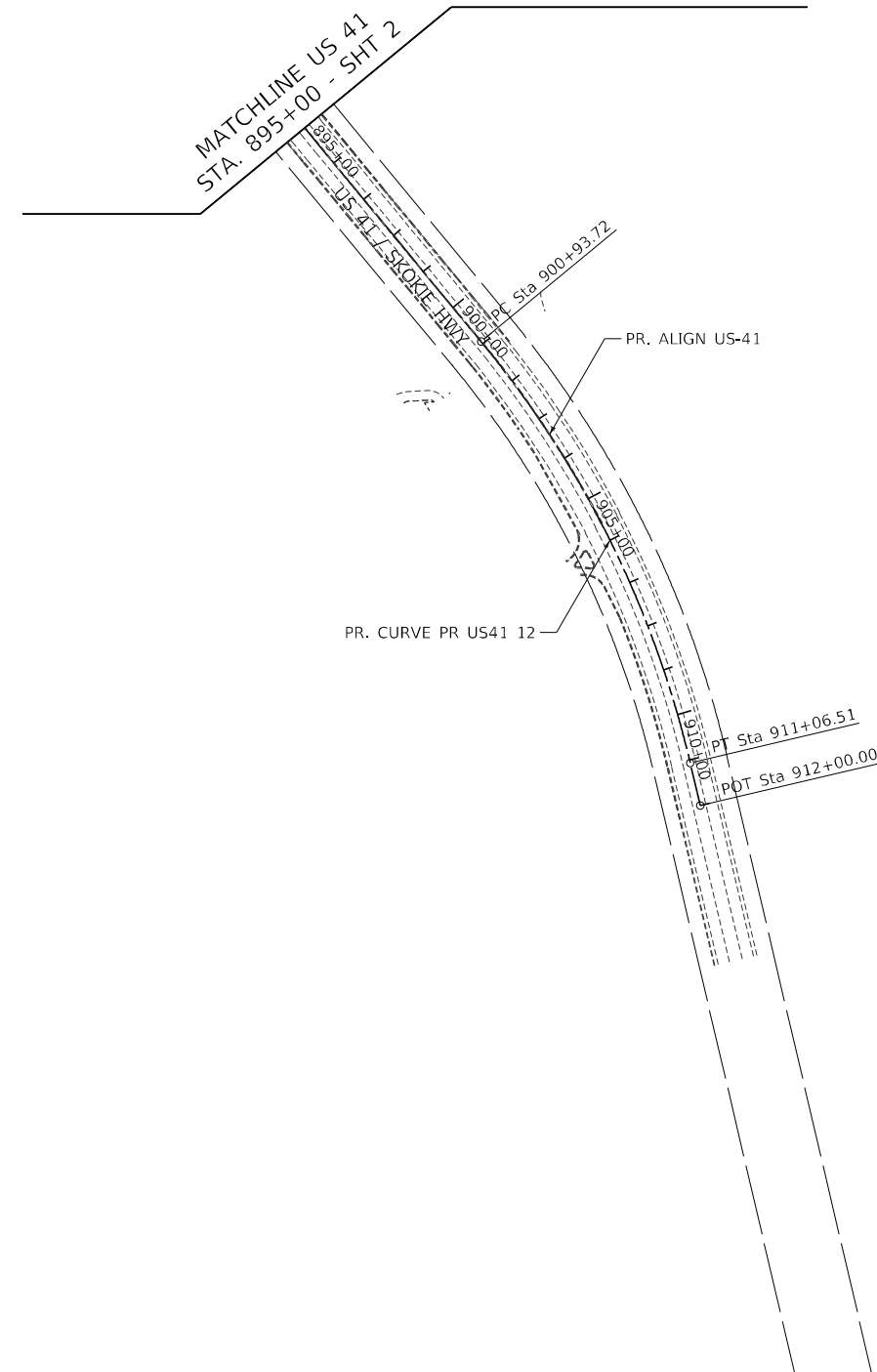
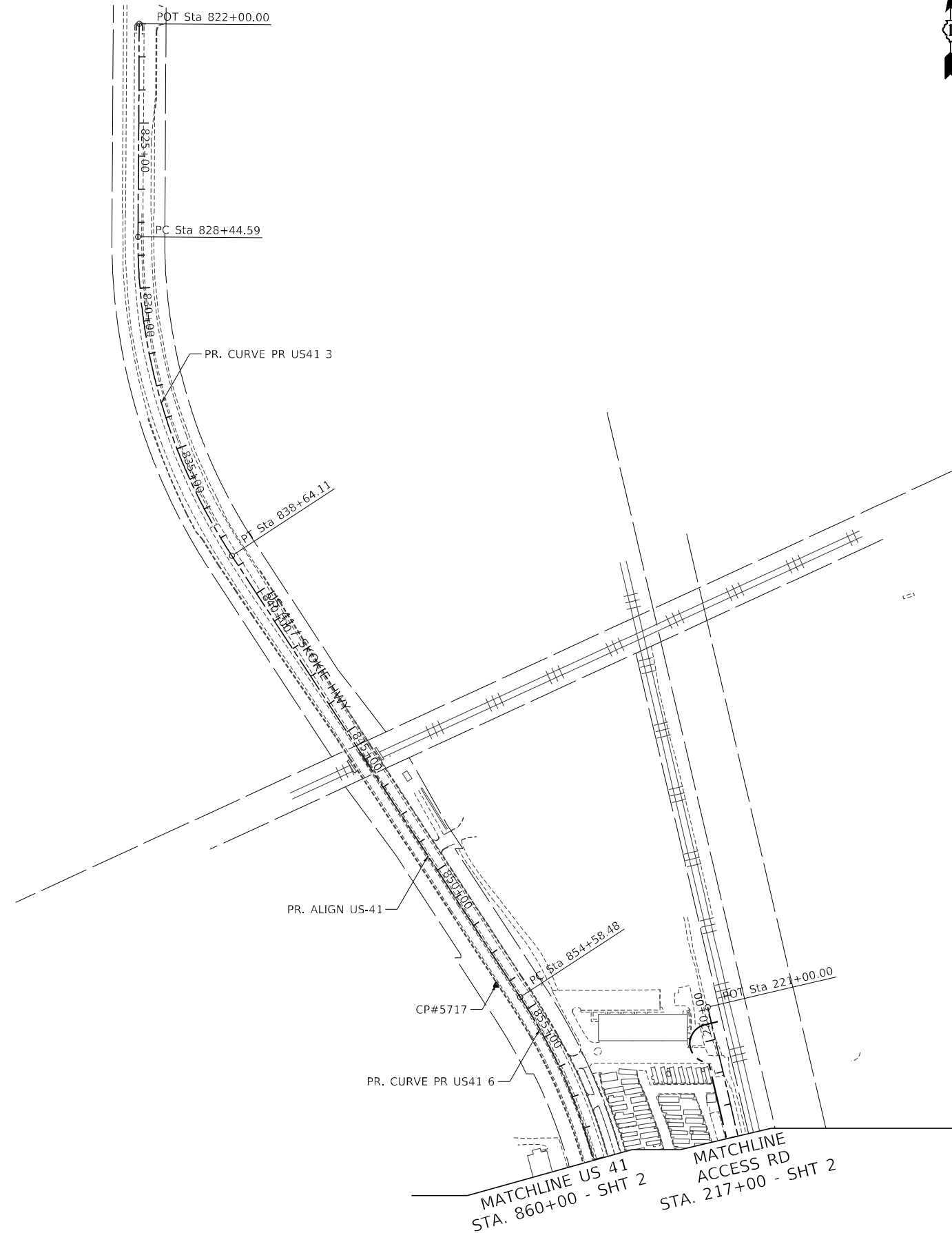
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PLOT SCALE = 400,0000' / in.	CHECKED - MPG	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

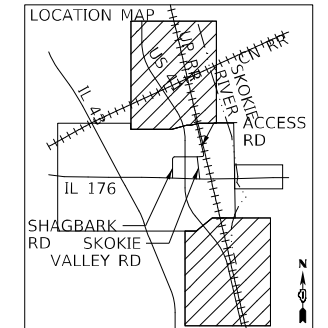
**US 41 AT IL 176 INTERCHANGE - ADVANCED DRAINAGE IMPROVEMENTS
ALIGNMENT: PLAN**

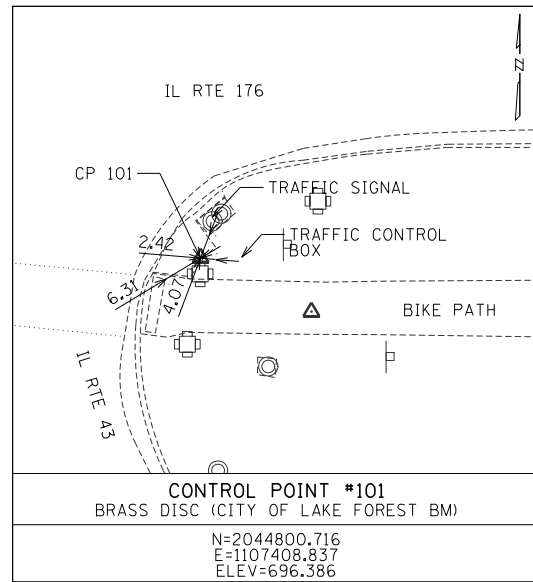
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2026-2181-C.HBK	LAKE	60	11
CONTRACT NO. 80D46				
ILLINOIS FED. AID PROJECT				



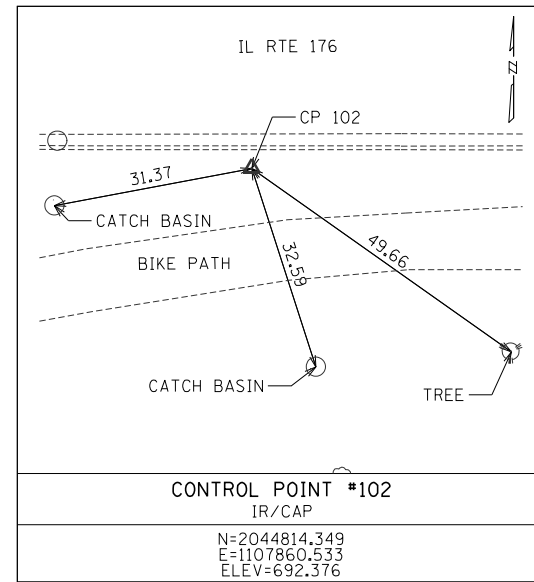
US RTE 41 ALIGNMENT				
P.O.T. STA = 822+00.00 N = 2,049,993.01 E = 1,108,035.68	PROP. CURVE PR_US41_3 P.I. STA = 833+69.40 N = 2,048,823.63 E = 1,108,028.58 Δ = 33° 31' 16.66" (LT) D = 3° 17' 16.61" R = 1,742.60 L = 1,019.52 E = 77.31 T = 524.82 P.C. STA = 828+44.59 N = 2,049,348.43 E = 1,108,031.77 P.T. STA = 838+64.11 N = 2,048,384.34 E = 1,108,315.74	PROP. CURVE PR_US41_6 P.I. STA = 859+78.88 N = 2,046,614.23 E = 1,109,472.88 Δ = 33° 23' 32.19" (RT) D = 3° 18' 08.46" R = 1,735.00 L = 1,011.17 E = 76.36 T = 520.40 P.C. STA = 854+58.48 N = 2,047,049.82 E = 1,109,188.14 P.T. STA = 864+69.65 N = 2,046,093.84 E = 1,109,470.89	PROP. CURVE PR_US41_9 P.I. STA = 885+87.57 N = 2,043,975.93 E = 1,109,462.79 Δ = 39° 46' 17.75" (LT) D = 3° 53' 51.62" R = 1,470.00 L = 1,020.39 E = 93.21 T = 531.72 P.C. STA = 880+55.85 N = 2,044,507.65 E = 1,109,464.83 P.T. STA = 890+76.24 N = 2,043,565.95 E = 1,109,801.38	PROP. CURVE PR_US41_12 P.I. STA = 906+09.22 N = 2,042,383.96 E = 1,110,777.56 Δ = 26° 19' 51.72" (RT) D = 2° 35' 59.51" R = 2,203.80 L = 1,012.79 E = 59.49 T = 515.50 P.C. STA = 900+93.72 N = 2,042,781.43 E = 1,110,449.30 P.T. STA = 911+06.51 N = 2,041,882.13 E = 1,110,895.46





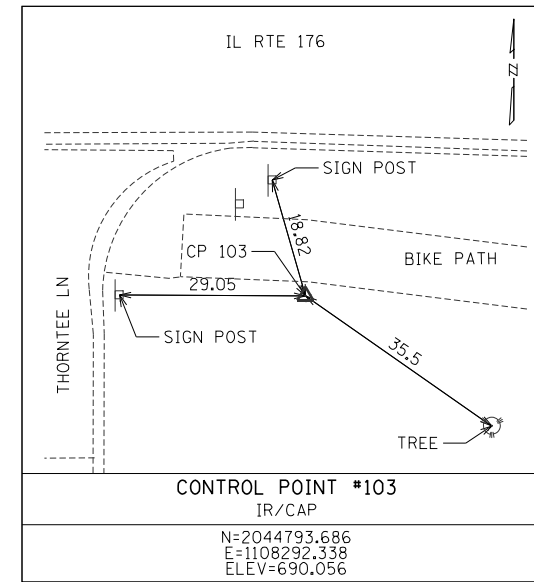
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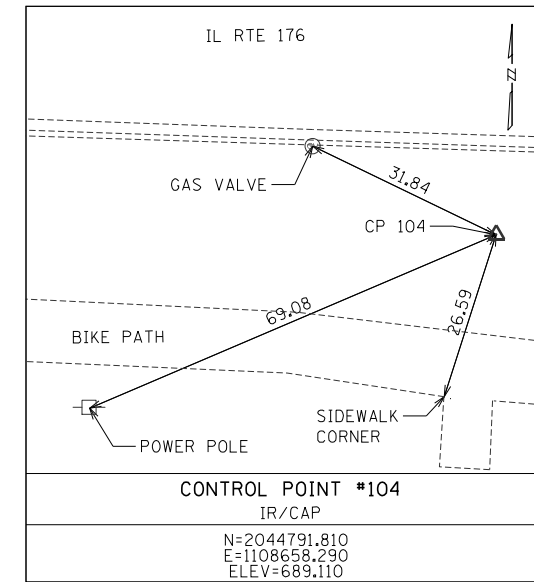
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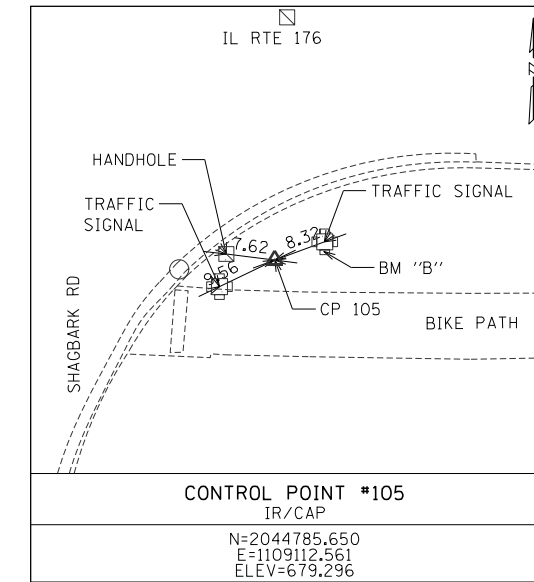
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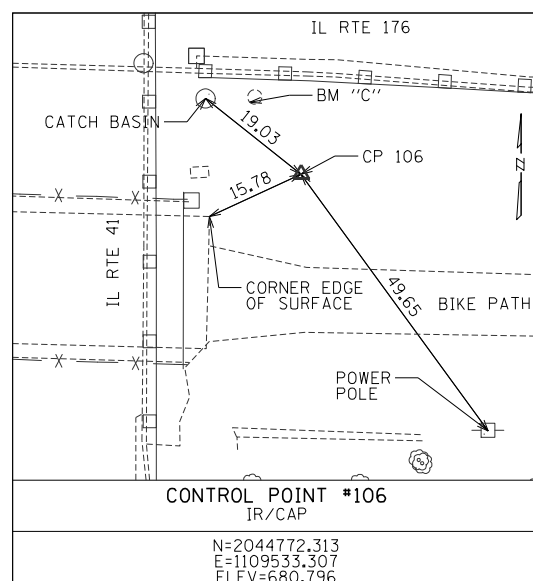
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IR/CAP

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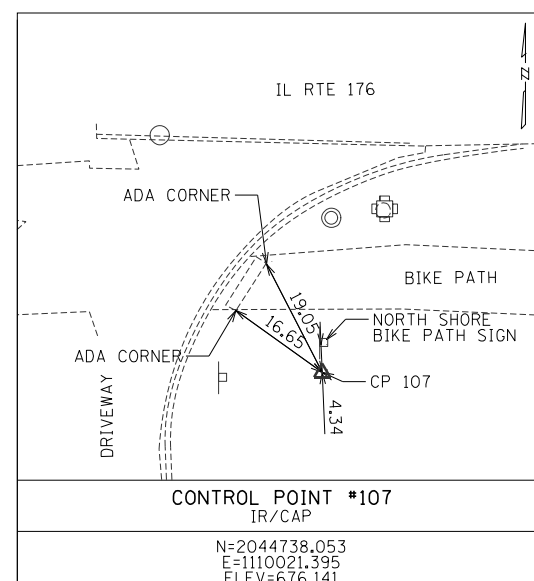
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IR/CAP

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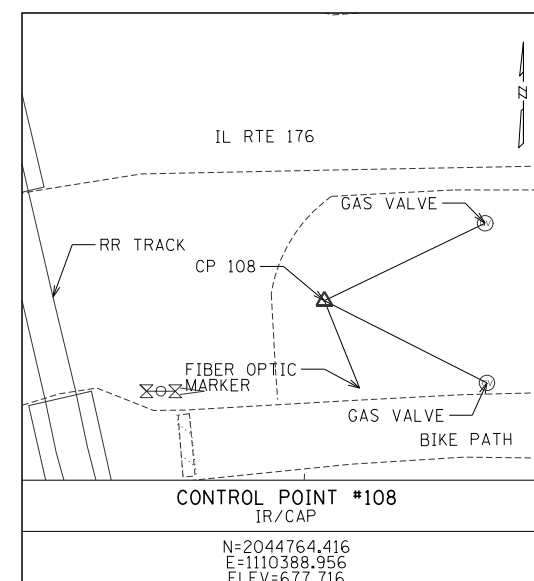
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IR/CAP

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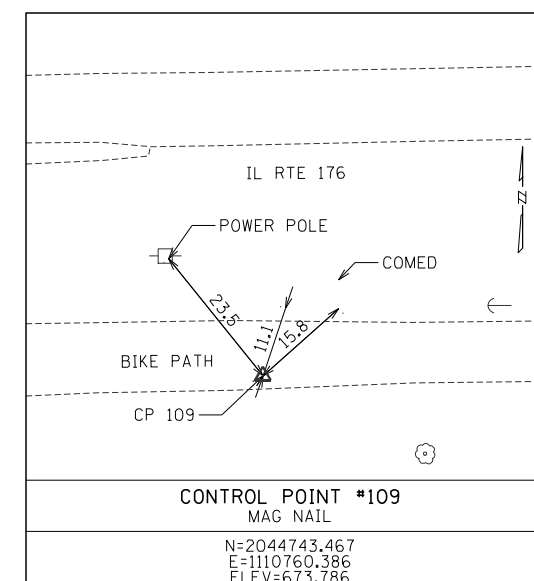
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IR/CAP

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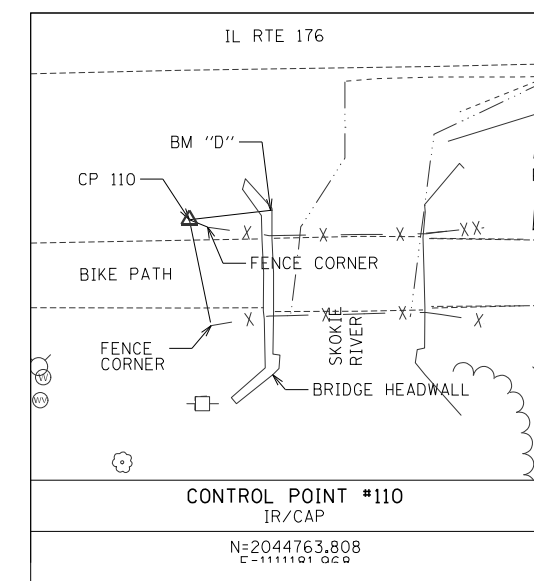
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IR/CAP

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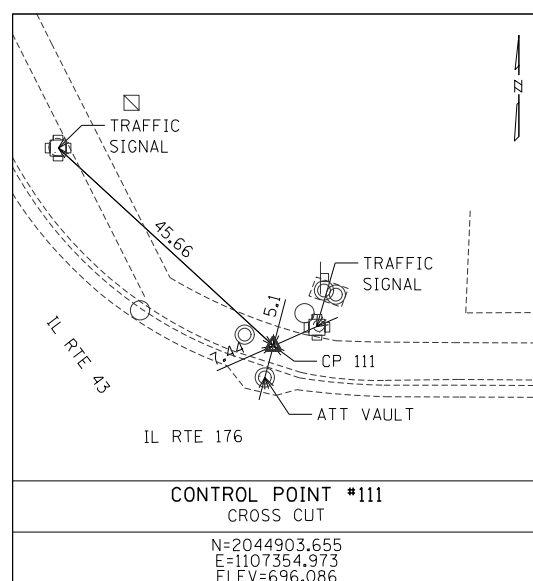
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MAG NAIL

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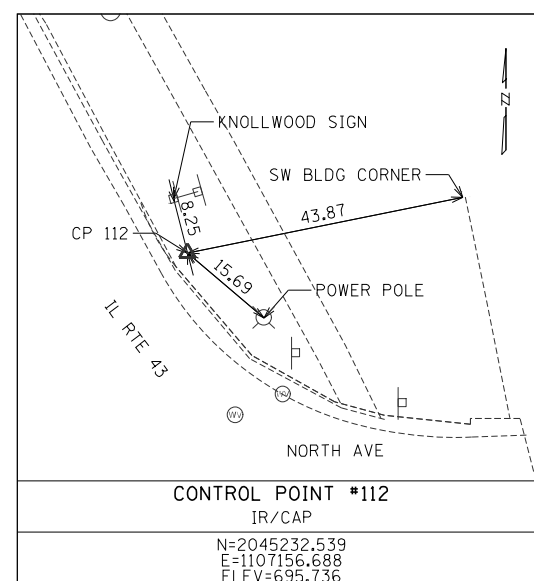
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IR/CAP

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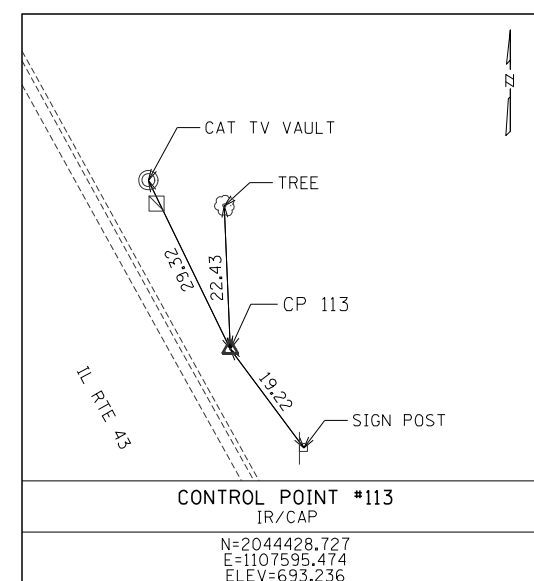
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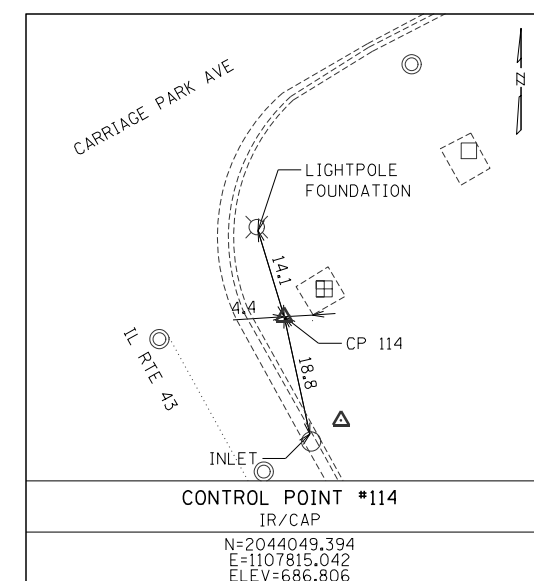
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IR/CAP

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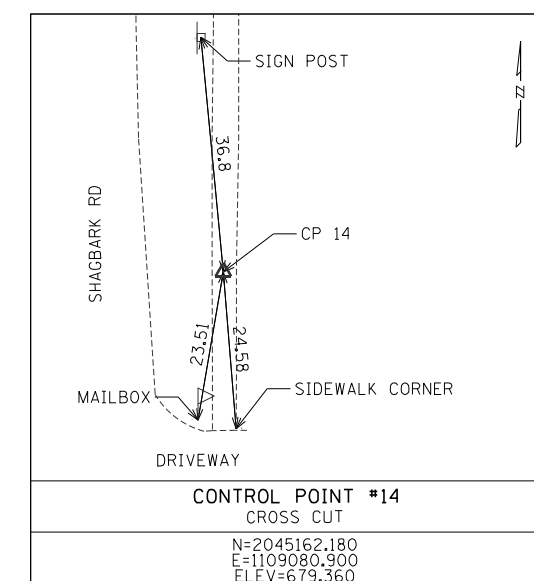
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IR/CAP

N=2044428.727
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ELEV=693.236



CONTROL POINT #114
IR/CAP

N=2044049.394
E=1107815.042
ELEV=686.806



CONTROL POINT #14
CROSS CUT

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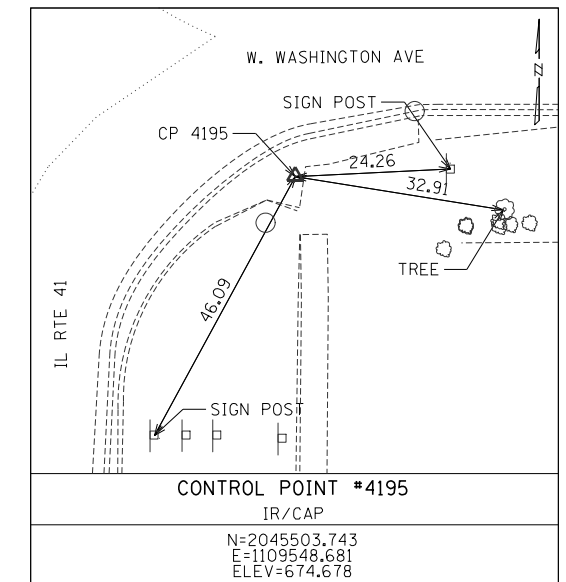
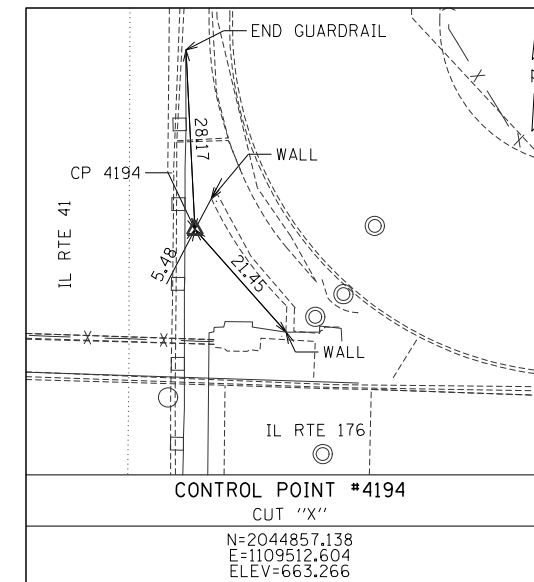
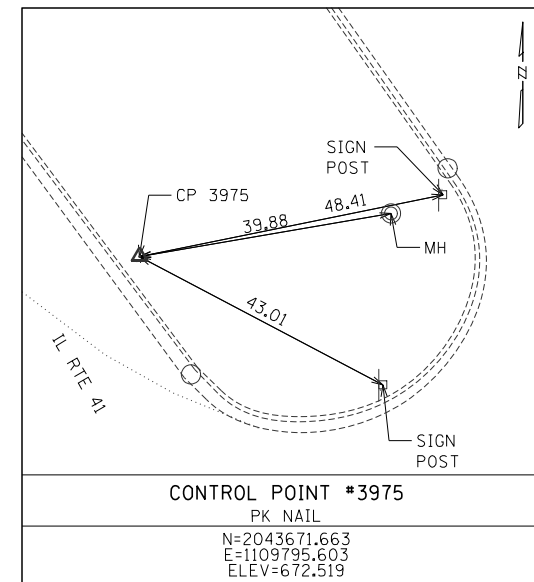
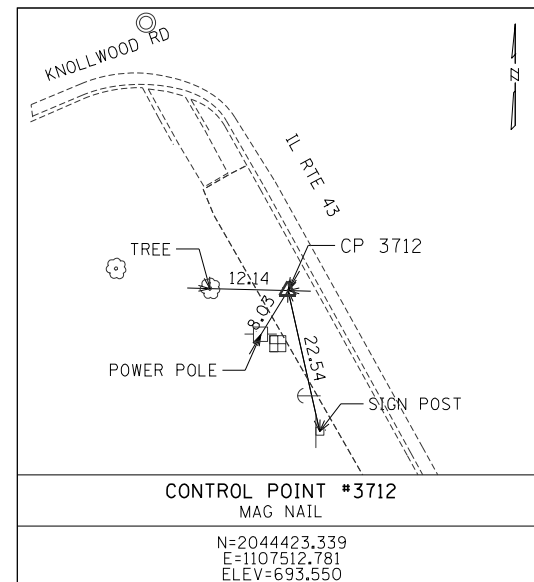
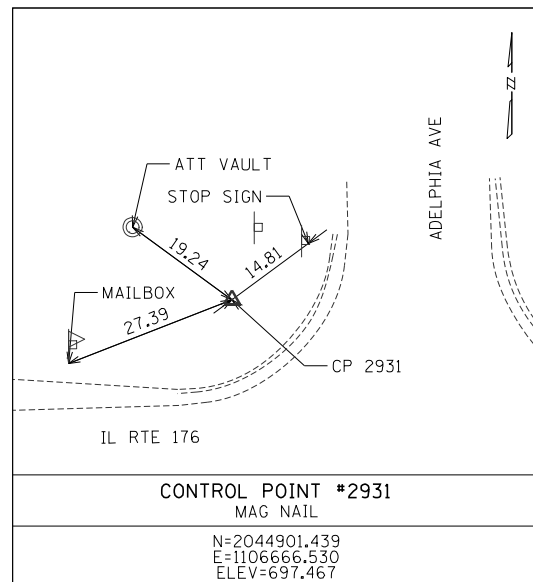
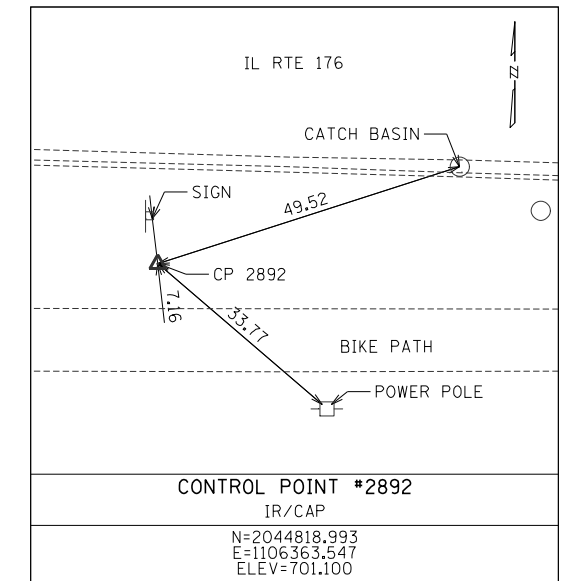
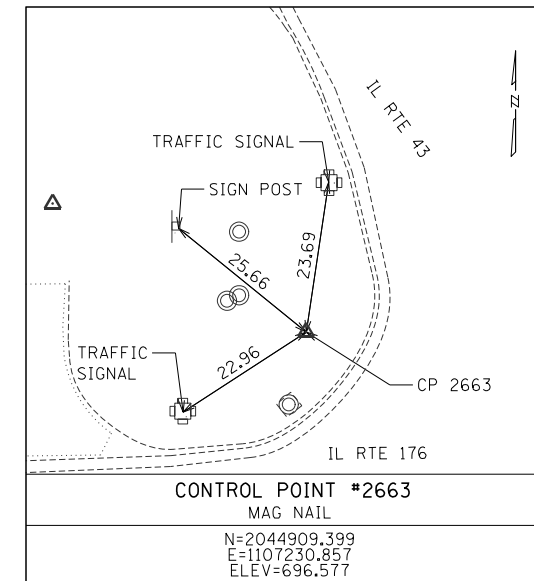
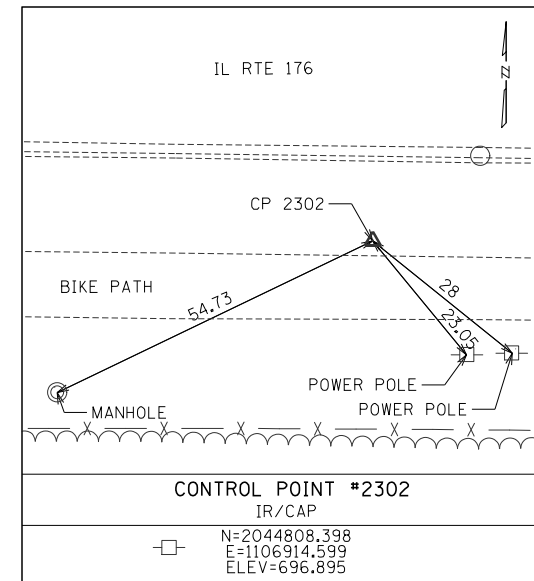
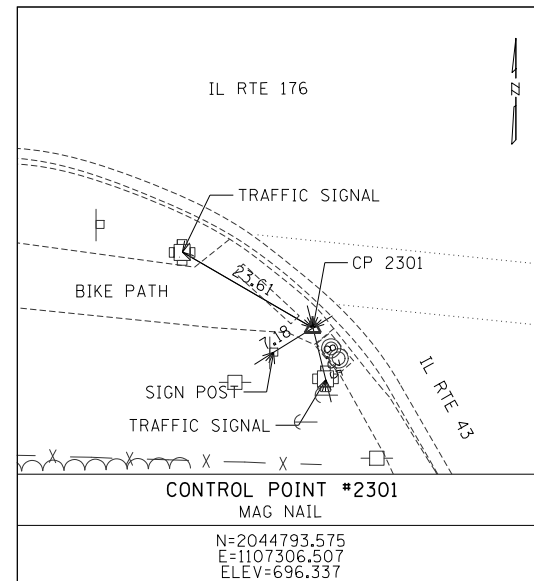
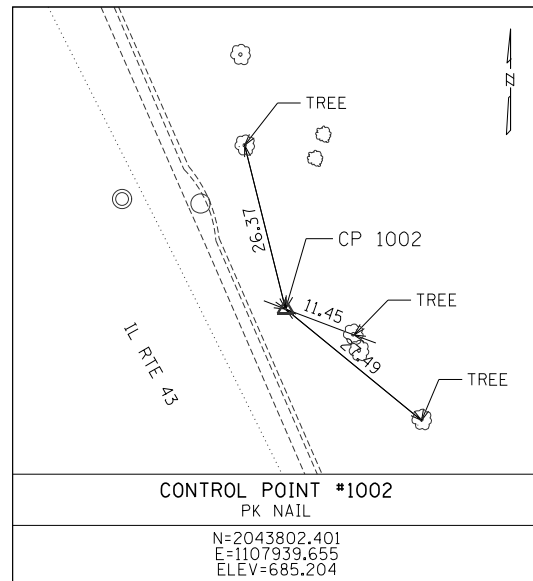
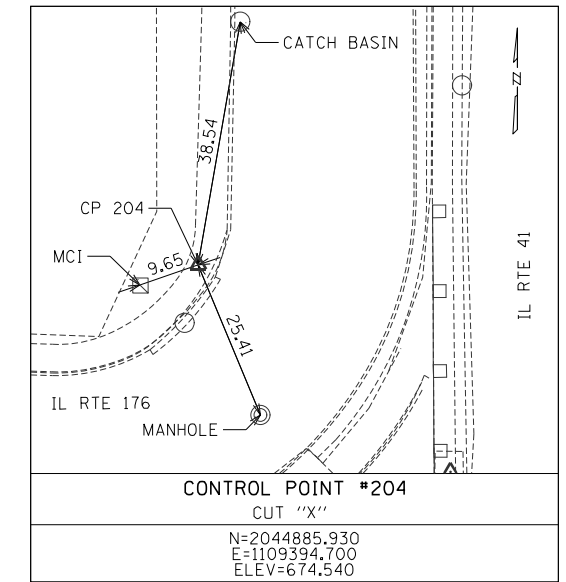
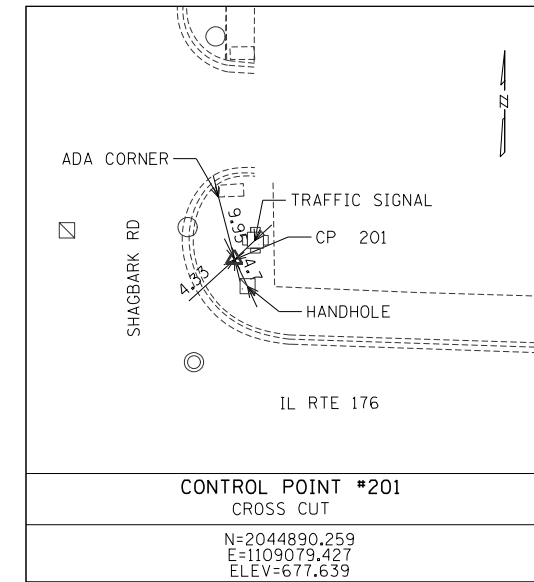
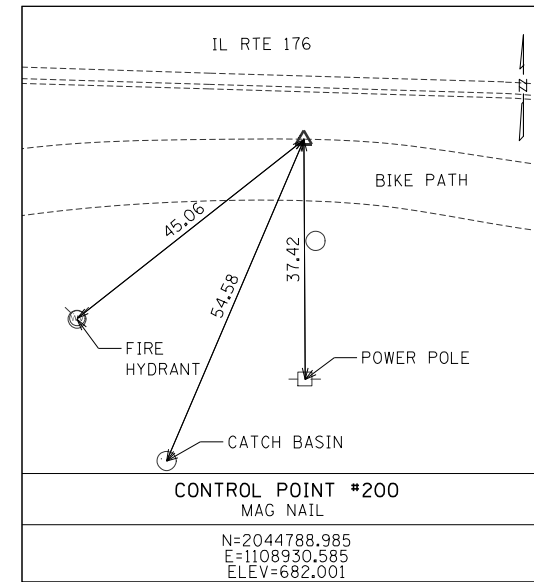
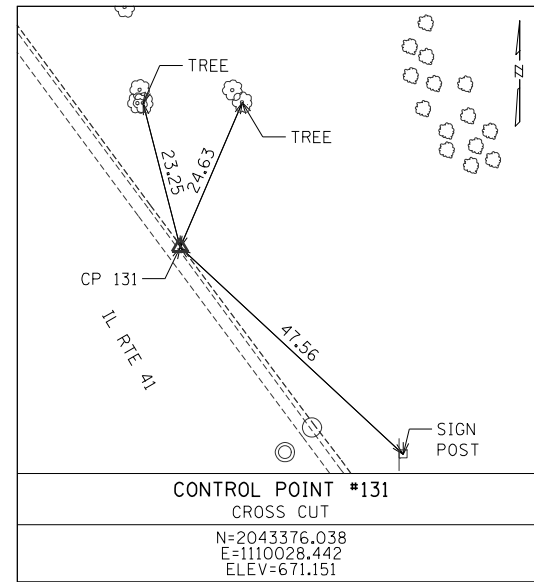
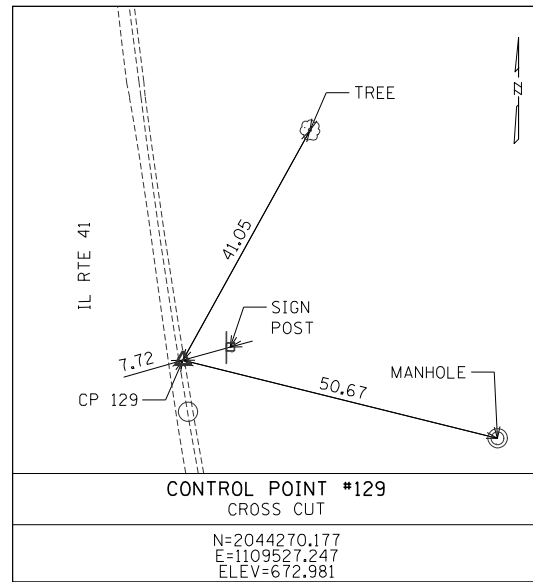
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PLOT DATE = 3/18/2026	CHECKED - VC	REVISED -
	DATE - 3/20/2026	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US 41 AT IL 176 INTERCHANGE - ADVANCED DRAINAGE IMPROVEMENTS
ALIGNMENT: CONTROL POINTS AND BENCHMARK TIES**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2026-2181-C.HBK	LAKE	60	12
CONTRACT NO. 80D46				
ILLINOIS FED. AID PROJECT				



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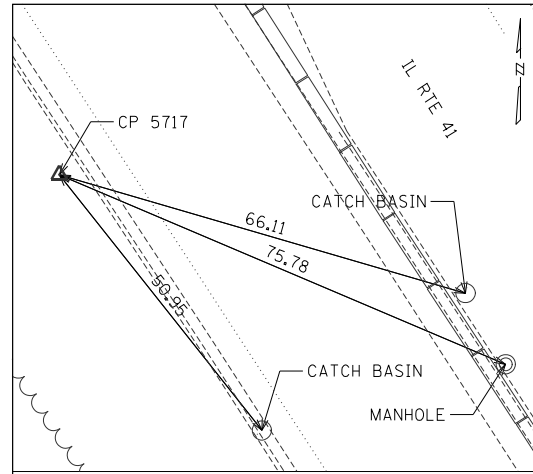
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	DATE - 3/20/2026	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US 41 AT IL 176 INTERCHANGE - ADVANCED DRAINAGE IMPROVEMENTS
ALIGNMENT: CONTROL POINTS AND BENCHMARK TIES**

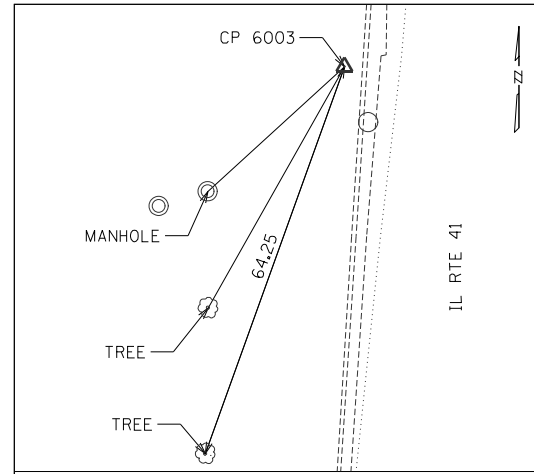
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2026-2181-C.HBK	LAKE	60	13
CONTRACT NO. 80D46				
ILLINOIS FED. AID PROJECT				



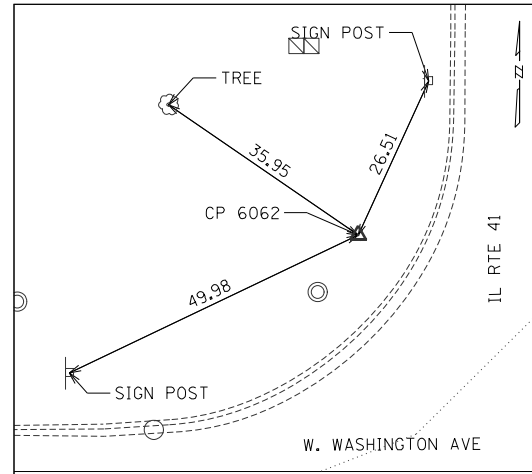
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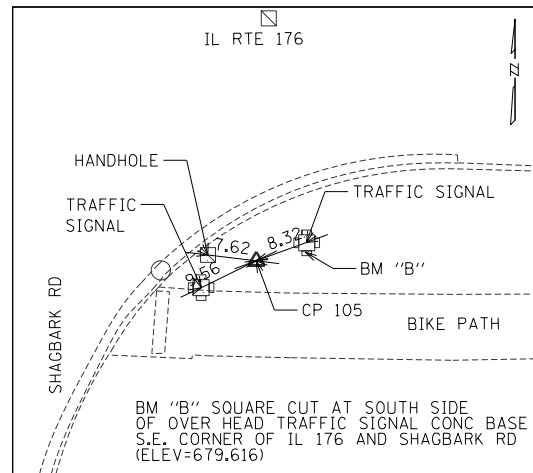
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PK NAIL

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ELEV=674.808



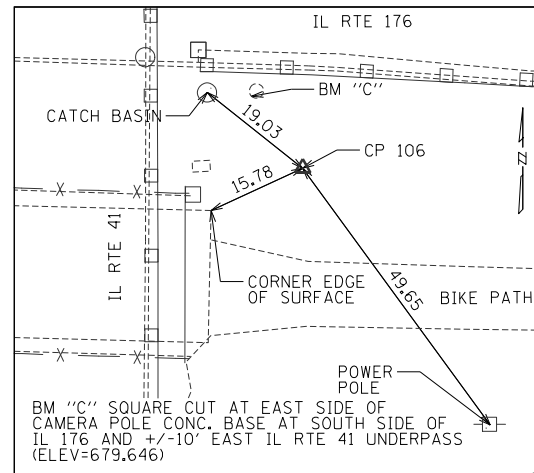
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IR/CAP

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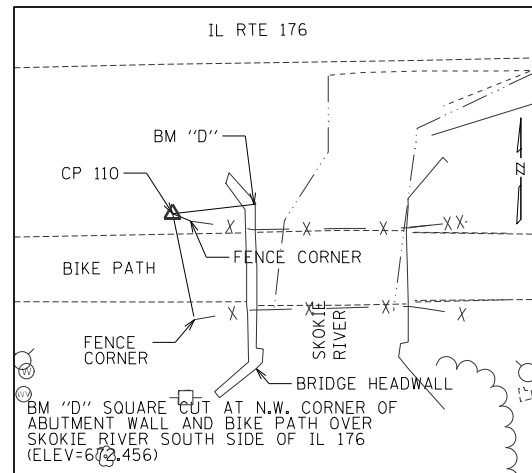
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BENCHMARK "C"

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E=1109525.316
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BENCHMARK "D"

N=2044765.291
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DB STERLIN CONSULTANTS, INC.
123 N. Wacker Drive, Suite 2000
Chicago, Illinois 60606
312.257.1000

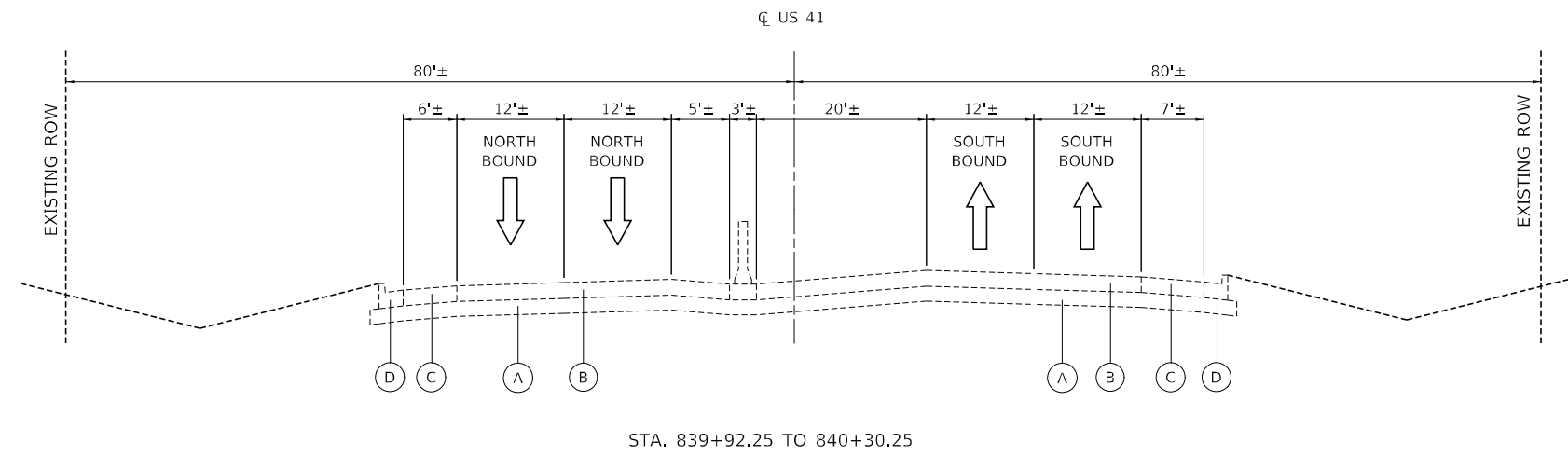
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PLOT DATE = 3/18/2026		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 41 AT IL 176 INTERCHANGE - ADVANCED DRAINAGE IMPROVEMENTS
ALIGNMENT: CONTROL POINTS AND BENCHMARK TIES

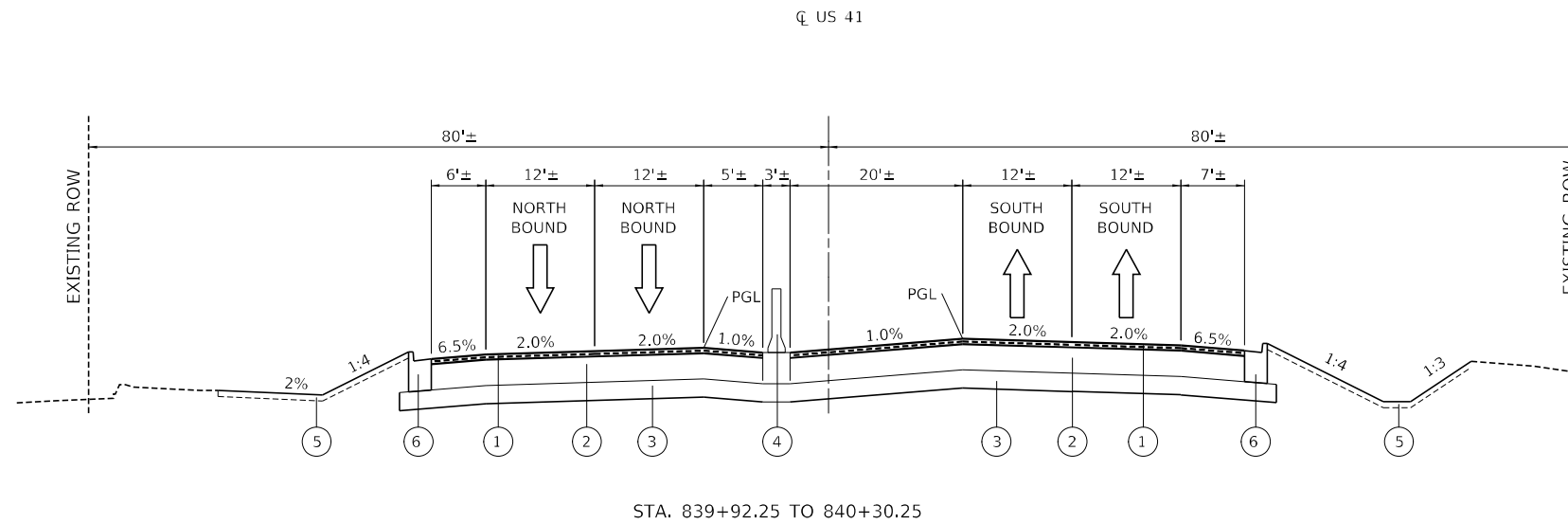
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2026-2181-C.HBK	LAKE	60	14
CONTRACT NO. 80D46			ILLINOIS FED. AID PROJECT	



EXISTING LEGEND

- (A) EXISTING P.C. CONCRETE PAVEMENT, 10"
- (B) EXISTING HMA SURFACE, ±10½"
- (C) EXISTING HMA SHOULDER, ±10½"
- (D) EXISTING CURB AND GUTTER



PROPOSED LEGEND

- (1) POLYMERIZED HMA SURFACE COURSE, SMA, 9.5, MIX "F", N80 (2 LIFTS AT 1¾" EACH)
- (2) CLASS C PATCHES, TYPE IV, 17 INCH
- (3) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (4) CONCRETE BARRIER, DOUBLE FACE, 44" INCH HEIGHT, WITH CONCRETE BARRIER BASE
- (5) TOPSOIL PLACEMENT 4" WITH SEEDING OR SODDING
- (6) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24

LONGITUDINAL JOINT SEALANT SHALL BE PLACED BETWEEN THE SURFACE COURSE LIFTS.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		QMP
MIXTURE TYPE	AIR VOIDS @ Ndesign	
PATCHING (US 41 OVER CLASS C PATCHING)		
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80; 2 LIFTS AT 1¾" EACH	3.5% @ 80 Gyr.	QC/QA
SHOULDER RUMBLE STRIP REMOVAL / SHOULDER REPAIRS		
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70; 2"	4.0% @ 70 Gyr.	QC/QA
QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA); QUALITY CONTROL FOR PERFORMANCE (QCP); PAY FOR PERFORMANCE (PFP)		

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

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

MODEL Path: D:\80D46\type\sect.dgn

TYLin
200 S. WACKER DR. SUITE 1400
CHICAGO, IL 60606
TEL: 312-777-2900

USER NAME = mark.gormely	DESIGNED - BLG	REVISED -
	DRAWN - BLG	REVISED -
PLOT SCALE = 20,0000 * / in.	CHECKED - MPG	REVISED -
PLOT DATE = 3/18/2026	DATE - 3/20/2026	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US 41 AT IL 176 INTERCHANGE - ADVANCED DRAINAGE IMPROVEMENTS
EXISTING AND PROPOSED TYPICAL SECTIONS**

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. 839+00.00 TO STA. 853+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2026-2181-C.HBK	LAKE	60	15
ILLINOIS FED. AID PROJECT			CONTRACT NO. 80D46	

GENERAL NOTES

- IF AN ALTERNATE TRAFFIC PATTERN IS REQUIRED WITHIN THE CONTRACT, THE CONTRACTOR SHALL SUBMIT A MAINTENANCE OF TRAFFIC DEVIATION PLAN, 21 DAYS PRIOR OF THE CHANGES FOR APPROVAL BY IDOT. IN ADDITION, THE CONTRACTOR IS REQUIRED TO ATTEND MAINTENANCE OF TRAFFIC MEETING ARRANGED BY THE IDOT CONSTRUCTION MANAGER WITH REPRESENTATIVES OF IDOT TO REVIEW THE PROPOSED CHANGES IN THE MAINTENANCE OF TRAFFIC 2 DAYS PRIOR TO THE IMPLEMENTATION OF THE NEW MAINTENANCE OF TRAFFIC CHANGES.
- THE CONTRACTOR SHALL MAINTAIN TRAFFIC IN ACCORDANCE WITH THE SPECIAL PROVISIONS, STATE AND DISTRICT STANDARDS, STANDARD SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. SEE SPECIAL PROVISION TITLED TRAFFIC CONTROL AND PROTECTION (SPECIAL).
- THE ENGINEER SHALL BE INFORMED 72 HOURS IN ADVANCE OF ANY CHANGE IN CONSTRUCTION STAGING.
- TRAFFIC CONDITIONS, ACCIDENTS AND OTHER UNFORESEEN EMERGENCY CONDITIONS MAY REQUIRE THE ENGINEER TO RESTRICT, MODIFY, OR REMOVE LANE CLOSURES OR CHANNELIZATION SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAKE THE NECESSARY ADJUSTMENTS AS DIRECTED BY THE ENGINEER WITHOUT DELAY. THE CONTRACTOR SHALL RESPOND WITHIN THIRTY (30) MINUTES FROM THE TIME OF NOTIFICATION BY THE ENGINEER TO ANY REQUEST MADE BY THE ENGINEER FOR CORRECTION, IMPROVEMENT OR MODIFICATION OF THE MAINTENANCE OF TRAFFIC CONTROL DEVICES.
- MILEAGE POST SIGNING WILL ALWAYS BE ERECTED FOR THE DURATION OF THE CONSTRUCTION. ALL EXISTING MILEAGE POST SIGNING SHALL BE MAINTAINED IN PLACE UNTIL RELOCATED.
- DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT ADJACENT TRAFFIC LANES, WHICH ARE OPEN TO TRAFFIC, FROM DEBRIS BEING BLOWN OR OTHERWISE REMOVED FROM THE CONSTRUCTION AREAS. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR KEEPING DEBRIS OFF OF THE ADJACENT TRAVELED LANE SURFACE.
- A MINIMUM (ONE) 1-FOOT SHY DISTANCE BETWEEN THE BARRICADE AND THE OUTSIDE EDGE OF THE TEMPORARY PAVEMENT MARKING SHALL BE PROVIDED THROUGHOUT. SPACING SHALL BE AT (FIFTY) 50-FOOT CENTERS WITH THE FOLLOWING EXCEPTIONS:
 - LANE CLOSURE TAPER DIRECTIONAL INDICATOR BARRICADES SHALL BE SPACED AT (FIFTY) 50-FOOT CENTERS AND LANE SHIFT BARRICADES SHALL BE SPACED AT (TWENTY) 20-FOOT CENTERS ON US 41.
 - BARRICADES AT MERGE TAPERS SHALL BE SPACED AT (TWENTY) 20-FOOT CENTERS.
- THE CONTRACTOR SHALL BE REQUIRED TO REMOVE ALL EXISTING PAVEMENT MARKINGS WHICH CONFLICT WITH THE DESIGNATED TRAFFIC CONTROL PLAN. THIS WORK SHALL BE PAID FOR AS PAVEMENT MARKING REMOVAL-WATER BLASTING.
- THE CONTRACTOR SHALL BE REQUIRED TO REMOVE ALL REFLECTORS FROM EXISTING RAISED REFLECTIVE PAVEMENT MARKERS WHICH CONFLICT WITH THE DESIGNATED TRAFFIC CONTROL PLAN. THIS WORK SHALL BE PAID FOR AS RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL.
- ALL TEMPORARY PAVEMENT MARKINGS SHOWING DETERIORATION AFTER 7 DAYS SHALL BE REPLACED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER. SUFFICIENT QUANTITIES FOR ONE PLACEMENT AND ONE REPLACEMENT HAVE BEEN PROVIDED FOR EACH STAGE. ALL MARKINGS THAT REQUIRE REPLACEMENT PRIOR TO 7 DAYS OF SERVICE OR REPLACEMENT AFTER THE SECOND REPLACEMENT SHALL BE REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE.
- ALL TRAFFIC CONTROL DEVICES REQUIRED TO PROVIDE MAINTENANCE OF TRAFFIC DURING CONSTRUCTION SHALL BE PROVIDED AND MAINTAINED BY THE CONTRACTOR. THE TRAFFIC CONTROL DEVICES SHALL MEET THE REQUIREMENTS OF STANDARD SPECIFICATIONS AND SHALL REMAIN VISIBLE DURING ALL STAGES OF CONSTRUCTION.
- PORTABLE CHANGEABLE MESSAGE SIGNS ARE TO BE LOCATED AS DIRECTED BY THE ENGINEER.
- A MINIMUM (ONE) 1 FOOT SHY DISTANCE BETWEEN THE TEMPORARY OR PERMANENT CONCRETE BARRIER WALL AND THE OUTSIDE EDGE OF THE ADJACENT TEMPORARY PAVEMENT MARKING SHALL BE PROVIDED AT ALL LOCATIONS.
- THE CONTRACTOR SHALL INSTALL STABILIZED CONSTRUCTION ENTRANCES PER ILLINOIS URBAN MANUAL STANDARD DRAWING IL-630.
- MAINTENANCE OF TRAFFIC: CONTRACTOR SHALL SUBMIT A MAINTENANCE OF TRAFFIC PLAN IF THE CONTRACTOR'S PROPOSED CONSTRUCTION PHASING DIFFERS FROM THE CONTRACT PLAN. THE PLAN SHALL BE IN ACCORDANCE WITH IDOT STANDARDS AND WITHIN THE REQUIREMENTS PER THE CONTRACT DOCUMENTS. THE PLAN SHALL BE SUBJECT TO IDOT APPROVAL. CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FROM THE ENGINEER FOR ANY METHODS OF MAINTENANCE OF TRAFFIC DIFFERENT THAN THAT SHOWN ON THE PLAN. THE CONTRACTOR SHALL SCHEDULE HIS CONSTRUCTION STAGING TO CONFORM TO THE DETAILS SHOWN ON THE DRAWINGS.
- TRAFFIC CONTROL DEVICES: TRAFFIC CONTROL DEVICES USED FOR THE MAINTENANCE OF TRAFFIC AS DETAILED ON THE PLANS SHALL BE REFLECTORIZED PRIOR TO INSTALLATION AND CLEANED THROUGHOUT THE DURATION OF THE CONTRACT.

GENERAL NOTES (CONT.)

- PROTECTION AND RESTORATION OF TRAFFIC SIGNS: PRIOR TO THE BEGINNING OF CONSTRUCTION OPERATIONS, THE CONTRACTOR WILL BE PROVIDED A SIGN LOG OF EXISTING SIGNS WITHIN THE LIMITS OF THE CONSTRUCTION ZONE. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE ACCURACY OF THE SIGN LOG THROUGHOUT THE DURATION OF THIS PROJECT. EXISTING TRAFFIC SIGNS SHALL BE COVERED OR REMOVED AND STORED BY THE CONTRACTOR AS THE PROJECT'S CONSTRUCTION STAGING PLAN REQUIRES AND IN ACCORDANCE WITH ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL REPLACE AT HIS OWN EXPENSE ANY TRAFFIC SIGN OR POST WHICH HAS BEEN DAMAGED OR LOST BY THE CONTRACTOR, OR A THIRD PARTY AFTER SIGNS HAVE BEEN REMOVED FOR STORAGE OR COVERED AS A PART OF THE MAINTENANCE OF TRAFFIC OPERATIONS.
- PROVIDE THE SERVICES OF COMPETENT AND CERTIFIED FLAGGER(S) AT LOCATIONS AND TIMES FOR SUCH PERIODS AS NECESSARY FOR THE CONTROL AND PROTECTION OF VEHICULAR AND PEDESTRIAN TRAFFIC. USE FLAGGING METHODS, WHICH COMPLY WITH THE GUIDELINES IN THE MUTCD. FLAGGING OPERATIONS WILL NOT BE ALLOWED FOR THE CONVENIENCE OF THE CONTRACTOR'S OPERATIONS. HOWEVER, IF SAFETY ISSUES EXIST (I.E. SIGHT/STOPPING SITE DISTANCE). THE ENGINEER MAY APPROVE THE USE OF FLAGGING OPERATIONS.
- DEFICIENCIES OF TRAFFIC CONTROL DEVICES REPORTED BY THE ENGINEER SHALL BE CORRECTED IMMEDIATELY. FAILURE TO CORRECT DEFICIENCIES IN THE TIME ALLOCATED BY THE ENGINEER MAY RESULT IN APPROPRIATE LIQUIDATED DAMAGES.
- THE CONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE ENGINEER OF ANY PEDESTRIAN OR VEHICULAR ACCIDENT WHEN PHYSICAL EVIDENCE OR OTHER INFORMATION SUGGESTS AN ACCIDENT HAS OCCURRED IN THE WORK ZONE. THE CONTRACTOR SHALL OBTAIN AND PROVIDE TO THE ENGINEER COPIES OF LAW ENFORCEMENT ACCIDENT REPORTS FOR ANY ACCIDENTS IN THE WORK ZONE.
- ANY SAWCUTTING OF THE EXISTING PAVEMENT FOR STAGE CONSTRUCTION SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR PAVEMENT REMOVAL.
- THE PAY ITEM "BARRIER WALL REFLECTORS, TYPE C" IS INTENDED SOLELY TO BE USED FOR REFLECTOR APPLICATIONS ON PERMANENT AND EXISTING CONCRETE BARRIER AND IS NOT TO BE USED FOR TEMPORARY CONCRETE BARRIER WHERE THE TYPE C REFLECTOR IS CONSIDERED INCLUDED IN THE COST OF THE TEMPORARY CONCRETE BARRIER PER HIGHWAY STANDARD 704001.
- CONTRACTOR SHALL REPLACE DAMAGED OR MISSING REFLECTORS ON MEDIAN BARRIER WALL PRIOR TO PLACING TRAFFIC ON ADJACENT SHOULDERS, PAID FOR AS BARRIER WALL REFLECTORS, TYPE C (78200011). A NOMINAL QUANTITY HAS BEEN INCLUDED IN THE CONTRACT.
- MONO-DIRECTIONAL PRISMATIC BARRIER REFLECTORS WILL BE PLACED AT 25 FOOT CENTERS ON TOP AND SIDE OF TEMPORARY CONCRETE BARRIER FACING TRAFFIC.
- PROPOSED SIGNS MUST BE PLACED PRIOR TO REMOVING EXISTING SIGNS. EARLY GRADING MAY BE REQUIRED TO CONSTRUCT CONCRETE FOUNDATIONS AND PLACE SIGNS IN THEIR FINAL CONDITION. ADDITIONAL COMPENSATION WILL NOT BE PROVIDED.
- THE CONTRACTOR SHALL CONTACT KALPANA KANNAN-HOSADURGA, THE DISTRICT ONE ARTERIALS TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV. A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- CHANGEABLE MESSAGE SIGNS SHALL BE INSTALLED TWO WEEKS PRIOR TO ALL TRAFFIC STAGE CHANGES ON EACH APPROACH OF THE AFFECTED ROADWAY TO WARN MOTORISTS OF THE UPCOMING EVENT. THE SIGN MESSAGES SHALL BE REVISED TWO WEEKS THEREAFTER WITH MESSAGES WARNING TRAFFIC OF POTENTIAL TRAFFIC DELAYS, QUEUING AND/OR WITH MESSAGES NOTIFYING TRAFFIC TO USE ALTERNATE ROUTES. THE SIGN LOCATIONS AND MESSAGES SHALL BE DETERMINED BY THE ENGINEER.
- PRIOR TO STAGING TRAFFIC ONTO EXISTING SHOULDERS, THE SHOULDERS SHALL BE INSPECTED AND, IF DEEMED NECESSARY BY THE ENGINEER, SHOULDER SURFACE REPAIRS SHALL BE MADE UTILIZING MILLING AND RESURFACING. NOMINAL QUANTITIES OF "HMA SURFACE REMOVAL, 2" AND "HMA SURFACE COURSE, MIX "D" N70" HAVE BEEN INCLUDED IN THE CONTRACT.

SEQUENCE OF CONSTRUCTION

PRE-STAGE

UTILIZE DAILY OFF-PEAK LANE CLOSURES PER STANDARD 701421 TO REMOVE EXISTING RUMBLE STRIPS FROM NORTHBOUND AND SOUTHBOUND SHOULDERS AND PROVIDE SURFACE REPAIR TO ALL DAMAGED OR DEFICIENT EXISTING HMA SHOULDERS USING HMA SURFACE REMOVAL 2" AND HMA SURFACE COURSE, MIX "D", N70, 2". CONTRACTOR TO UTILIZE HIGHWAY STANDARDS TO COMPLETE THIS WORK.

STAGE 1

DURING THIS STAGE, CONTRACTOR WILL PROVIDE TEMPORARY CONCRETE BARRIER, INSTALL TEMPORARY PAVEMENT MARKINGS AND SIGNS TO SHIFT THE TRAFFIC AS NOTED ON THE MAINTENANCE OF TRAFFIC DRAWINGS.

CONTRACTOR WILL CONSTRUCT:

- PARTIAL CULVERT BENEATH SB US-41;
- SB US-41 PAVEMENT
- SB ROADSIDE DITCH AND BERM GRADING SOUTH OF CULVERT.

STAGE 2

DURING THIS STAGE, CONTRACTOR WILL PROVIDE TEMPORARY CONCRETE BARRIER, INSTALL TEMPORARY PAVEMENT MARKING AND SIGNS TO SHIFT THE TRAFFIC AS NOTED ON THE MAINTENANCE OF TRAFFIC DRAWINGS.

CONTRACTOR WILL CONSTRUCT:

- PARTIAL CULVERT BENEATH NB AND SB US-41;
- US-41 LANES AND MEDIAN

STAGE 3

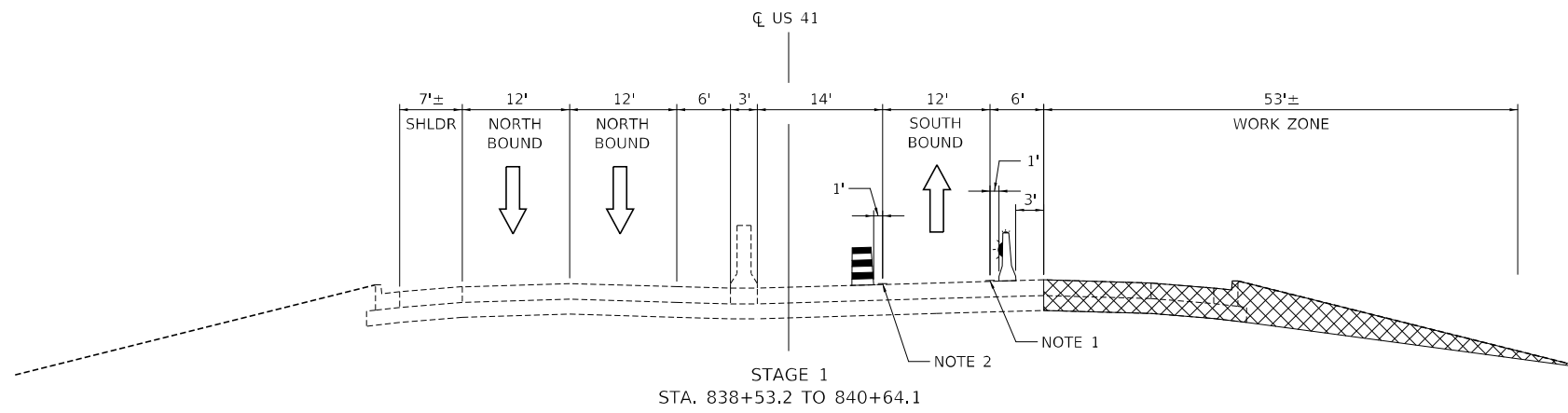
DURING THIS STAGE, CONTRACTOR WILL PROVIDE TEMPORARY CONCRETE BARRIER, INSTALL TEMPORARY PAVEMENT MARKING AND SIGNS TO SHIFT THE TRAFFIC AS NOTED ON THE MAINTENANCE OF TRAFFIC DRAWINGS.

CONTRACTOR WILL CONSTRUCT:

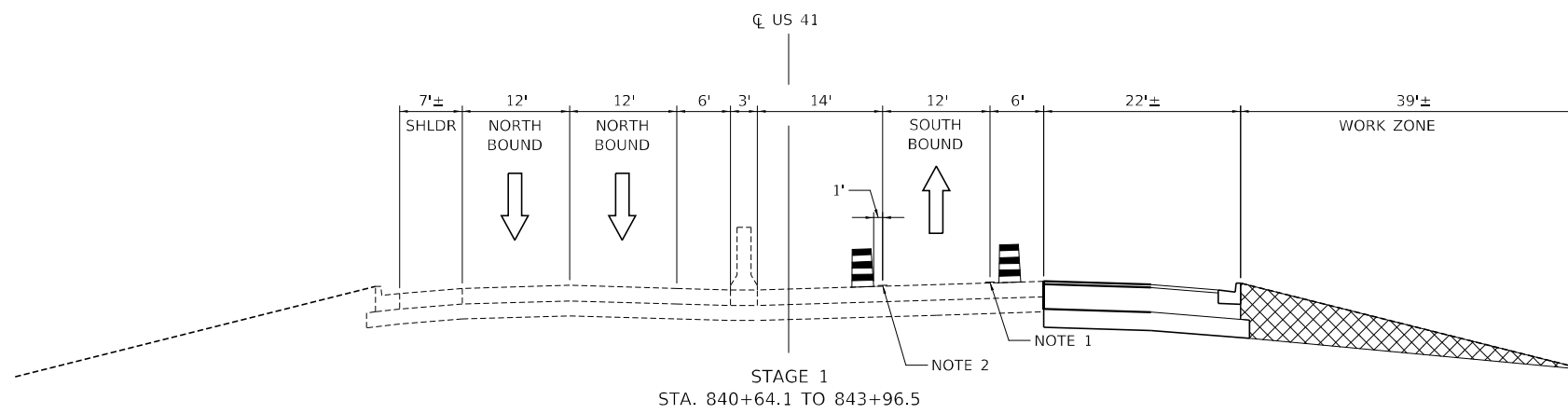
- REMAINING CULVERT BENEATH NB US-41;
- NB US-41 PAVEMENT
- GRADING AND BERM INSTALLATION ALONG NB US-41 SOUTH OF PUMP STATION.

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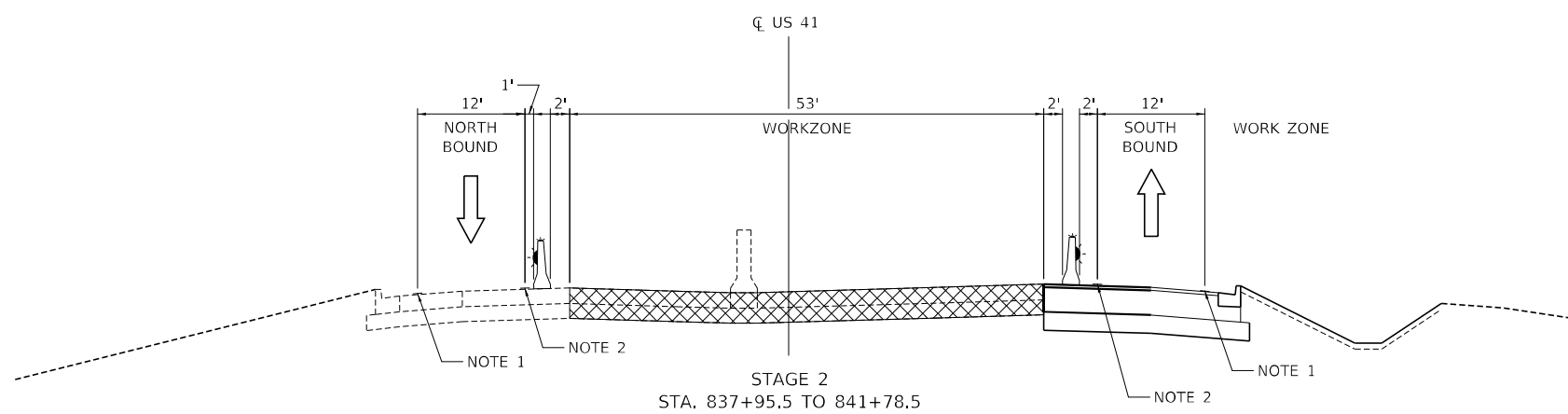
 200 S. WACKER DR. SUITE 1400 CHICAGO, IL 60606 TEL: 312-777-2900	USER NAME = mark.gormely	DESIGNED - KDW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US 41 AT IL 176 INTERCHANGE – ADVANCED DRAINAGE IMPROVEMENTS MAINTENANCE OF TRAFFIC – GENERAL NOTES	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100,0000 ' / in.	CHECKED - MPG	REVISED -			346	2026-2181-C.HBK	LAKE	60	16
	PLOT DATE = 3/18/2026	DATE - 3/20/2026	REVISED -			CONTRACT NO. 80D46				
						SCALE: 1"=50'	SHEET 1	OF 13 SHEETS	STA. 838+00.00	TO STA. 863+00.00



- NOTES:
1. PAVEMENT MARKING
TAPE TYPE IV, 4" LINE (WHITE)
 2. PAVEMENT MARKING
TAPE TYPE IV, 4" LINE (YELLOW)
 3. 2'-0" MINIMUM OF CLEAR PAVEMENT SHALL BE PROVIDED BEHIND TEMPORARY CONCRETE BARRIER FOR ALL STAGES OF CONSTRUCTION.



- LEGEND:
- ↑ DIRECTION OF TRAFFIC
 - TEMPORARY CONCRETE BARRIER WITH MONO-DIRECTIONAL TYPE C REFLECTORS PER STANDARDS 704001 & 782006. REFLECTORS SHALL BE AMBER WHEN TO THE LEFT OF TRAFFIC AND CRYSTAL WHEN TO THE RIGHT
 - DRUM
 - WORK ZONE



MODEL: D:\p1\11... FILE NAME: D:\80D46-2181-C\107-tyr\p101.dgn

TYLin
200 S. WACKER DR. SUITE 1400
CHICAGO, IL 60606
TEL: 312-777-2900

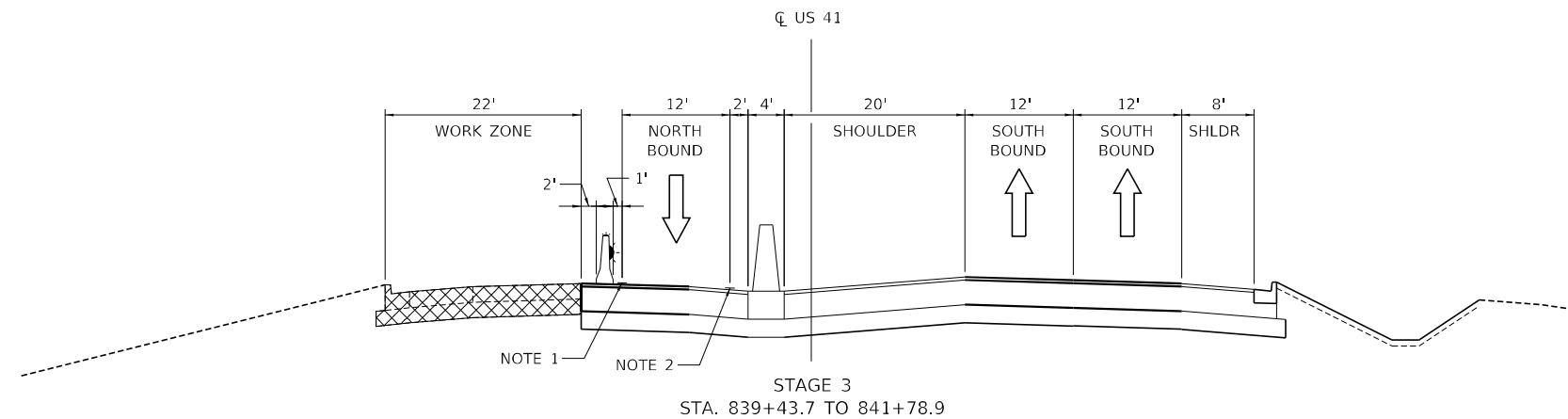
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PLOT DATE = 3/18/2026	DATE - 3/20/2026	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US 41 AT IL 176 INTERCHANGE - ADVANCED DRAINAGE IMPROVEMENTS
MAINTENANCE OF TRAFFIC - TYPICAL SECTIONS**

SCALE: N.T.S. SHEET 2 OF 13 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2026-2181-C.HBK	LAKE	60	17
CONTRACT NO. 80D46			ILLINOIS FED. AID PROJECT	

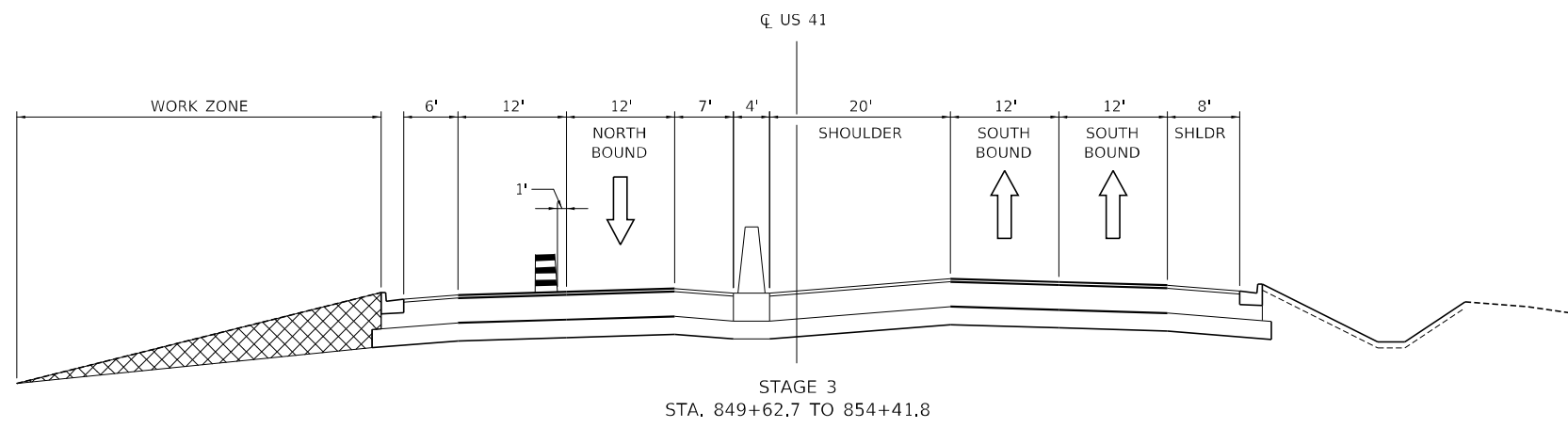


NOTES:

1. PAVEMENT MARKING
TAPE TYPE IV, 4" LINE (WHITE)
2. PAVEMENT MARKING
TAPE TYPE IV, 4" LINE (YELLOW)
3. 2'-0" MINIMUM OF CLEAR PAVEMENT
SHALL BE PROVIDED BEHIND
TEMPORARY CONCRETE BARRIER
FOR ALL STAGES OF CONSTRUCTION.

LEGEND:

- DIRECTION OF TRAFFIC
- TEMPORARY CONCRETE BARRIER WITH
MONO-DIRECTIONAL TYPE C REFLECTORS
PER STANDARDS 704001 & 782006.
REFLECTORS SHALL BE AMBER WHEN TO
THE LEFT OF TRAFFIC AND CRYSTAL WHEN
TO THE RIGHT
- DRUM
- WORK ZONE



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TYlin
200 S. WACKER DR. SUITE 1400
CHICAGO, IL 60606
TEL: 312-777-2900

USER NAME = mark.gormely	DESIGNED - BLG	REVISED -
	DRAWN - BLG	REVISED -
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PLOT DATE = 3/18/2026	DATE - 3/20/2026	REVISED -

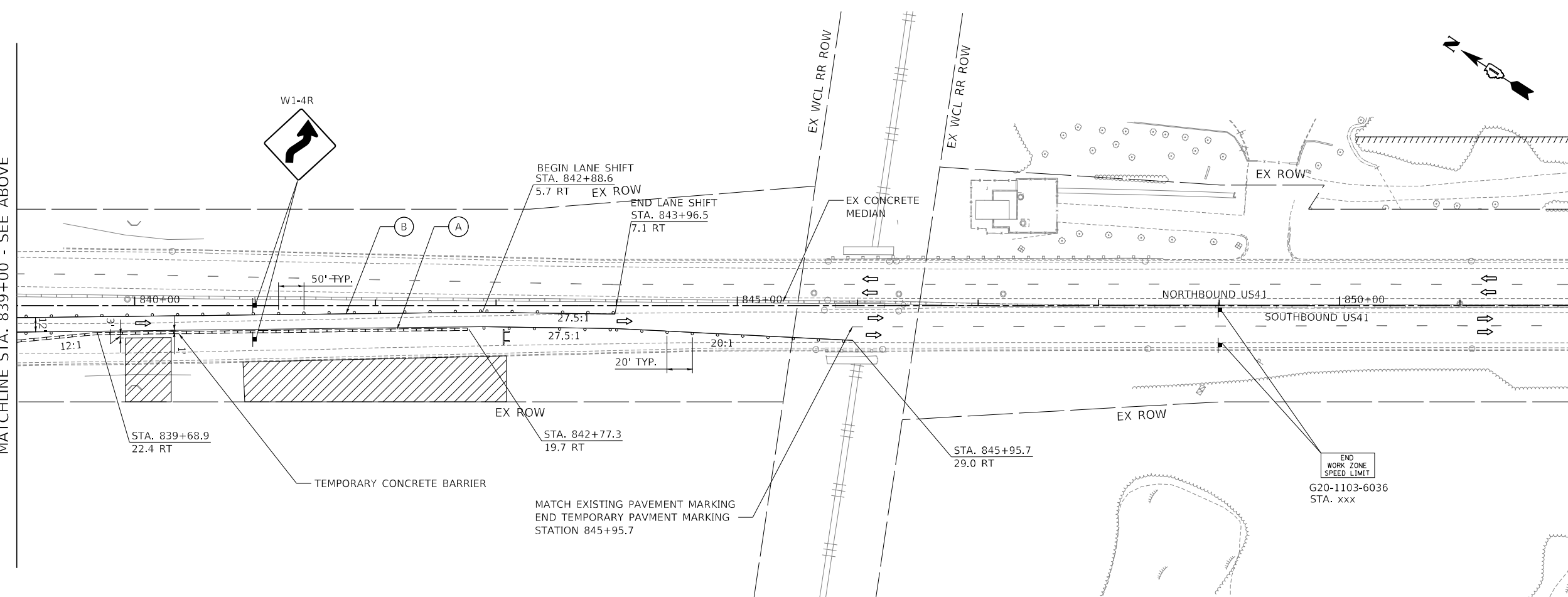
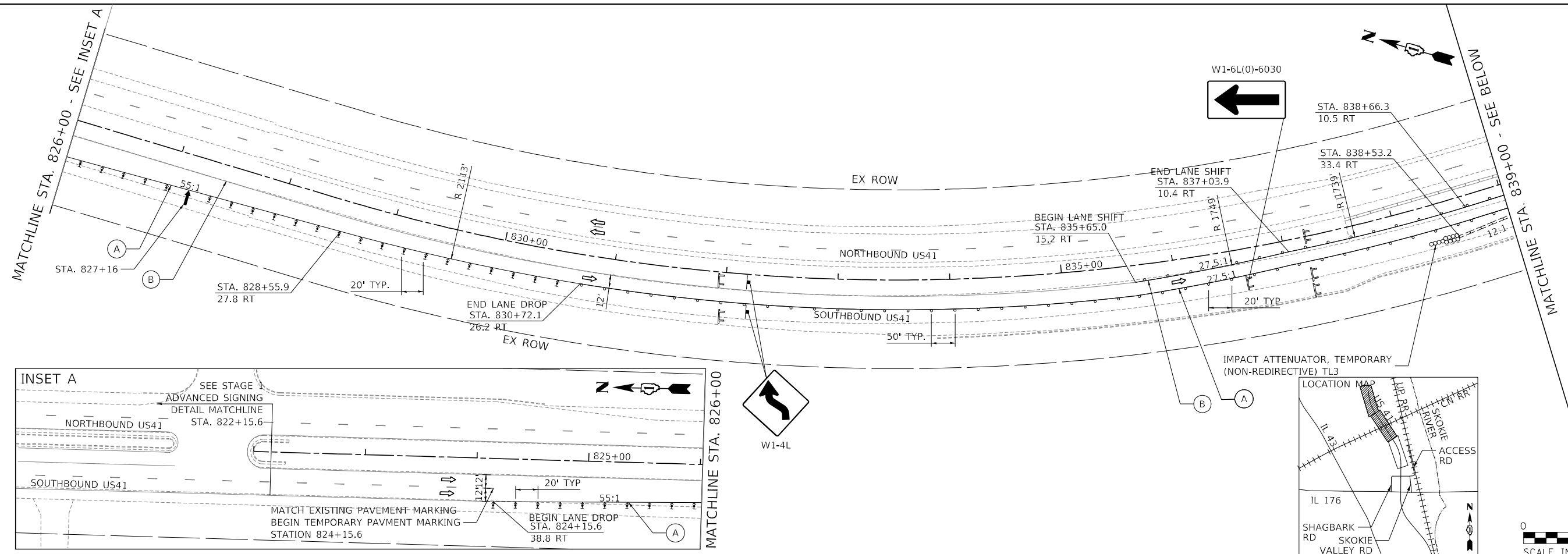
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US 41 AT IL 176 INTERCHANGE – ADVANCED DRAINAGE IMPROVEMENTS
MAINTENANCE OF TRAFFIC – TYPICAL SECTIONS**

SCALE: N.T.S. SHEET 3 OF 13 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2026-2181-C.HBK	LAKE	60	18
ILLINOIS			FED. AID PROJECT	

CONTRACT NO. 80D46



MOT LEGEND

- (A) 4" LINE, WHITE
- (B) 4" LINE, YELLOW
- (C) 4" LINE, WHITE (10' LINE 30' SPACE)
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR, TEMPORARY
- DRUM
- TRAFFIC LANE
- ▨ WORK AREA/ PERMANENT PAVEMENT
- ▩ PREVIOUSLY CONSTRUCTED PERMANENT PAVEMENT
- ↑ SIGN
- ⊥ BARRICADE, TYPE III
- ARROW BOARD
- ↑ DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT

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TYLin
 200 S. WACKER DR. SUITE 1400
 CHICAGO, IL 60606
 TEL: 312-777-2900

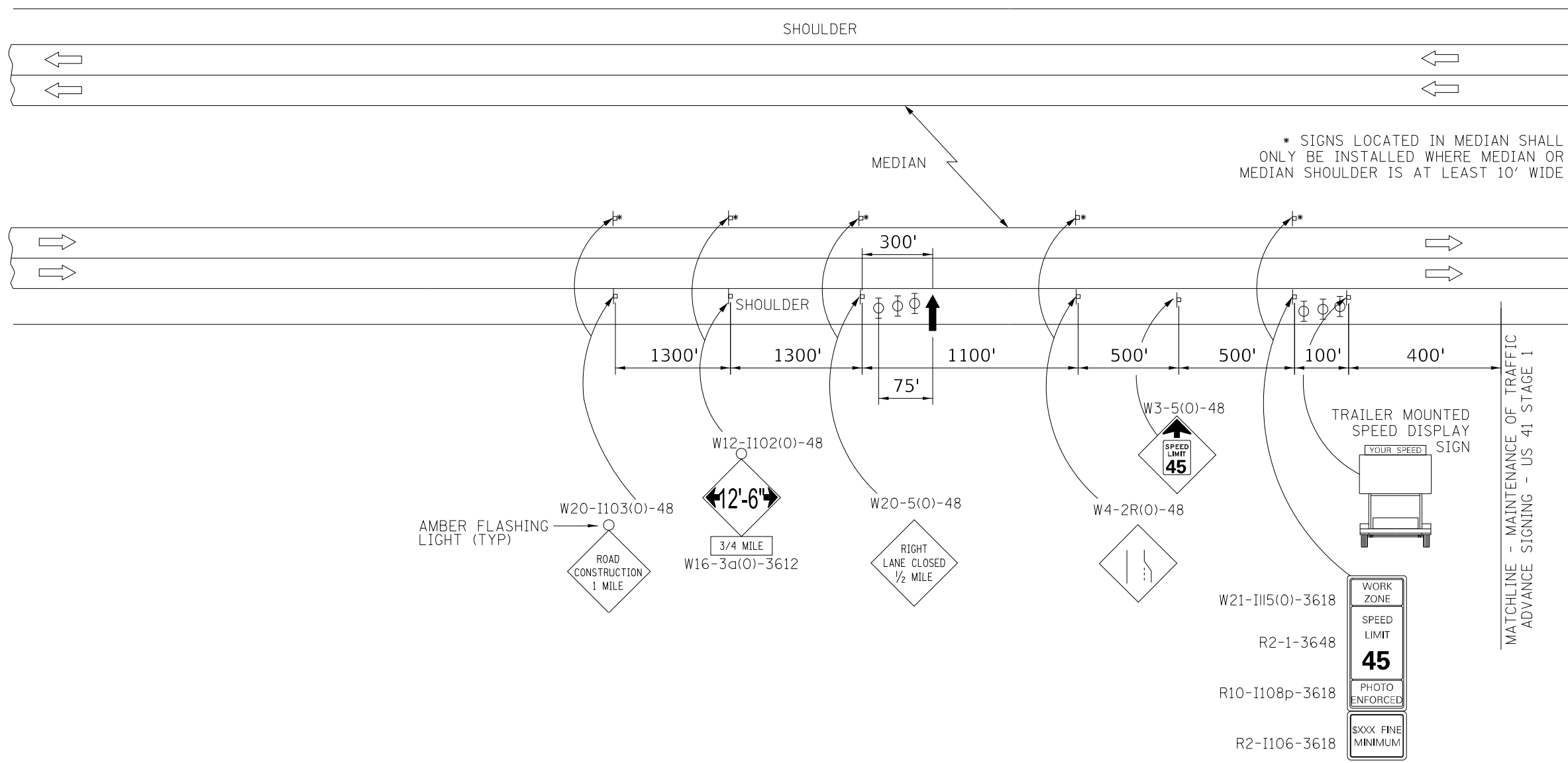
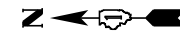
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PLOT DATE = 3/18/2026	DATE - 3/20/2026	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**US 41 AT IL 176 INTERCHANGE - ADVANCED DRAINAGE IMPROVEMENTS
 MAINTENANCE OF TRAFFIC PLAN - US 41 STAGE 1**

SCALE: 1"=50' SHEET 4 OF 13 SHEETS STA. 822+00.00 TO STA. 853+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2026-2181-C_HBK	LAKE	60	19
CONTRACT NO. 80D46				
ILLINOIS FED. AID PROJECT				



* SIGNS LOCATED IN MEDIAN SHALL ONLY BE INSTALLED WHERE MEDIAN OR MEDIAN SHOULDER IS AT LEAST 10' WIDE

MATCHLINE - MAINTENANCE OF TRAFFIC ADVANCE SIGNING - US 41 STAGE 1

SYMBOLS

- ⊥ SIGN
- ⊕ TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH MONODIRECTIONAL FLASHING LIGHT
- ↓ ARROW BOARD

ADVANCE SIGNAGE NOTES:

- ① TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES AT 15 M (50') CENTERS.
- ② WORK ZONE SPEED LIMIT SHALL BE SET TO 45 MPH.

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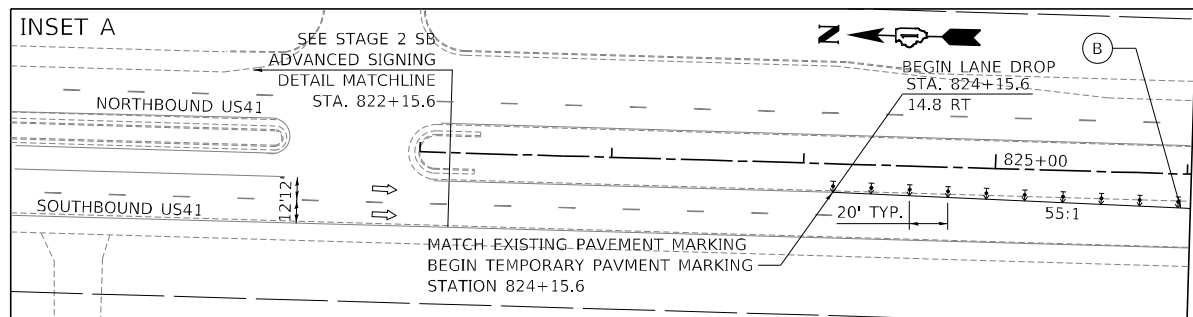
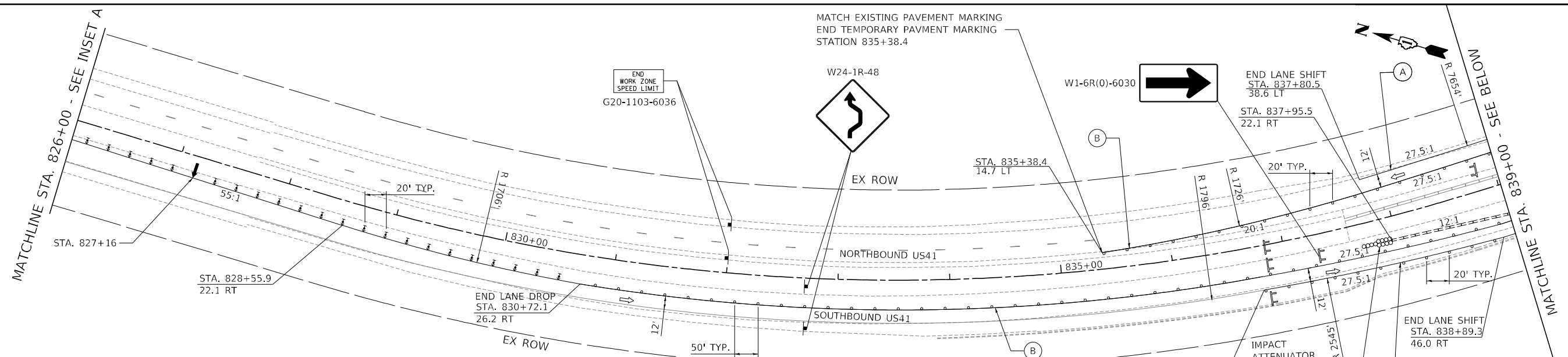
TYlin
 200 S. WACKER DR. SUITE 1400
 CHICAGO, IL 60606
 TEL: 312-777-2900

USER NAME = mark.gormely	DESIGNED - BLG	REVISED -
	DRAWN - BLG	REVISED -
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PLOT DATE = 3/18/2026	DATE - 3/20/2026	REVISED -

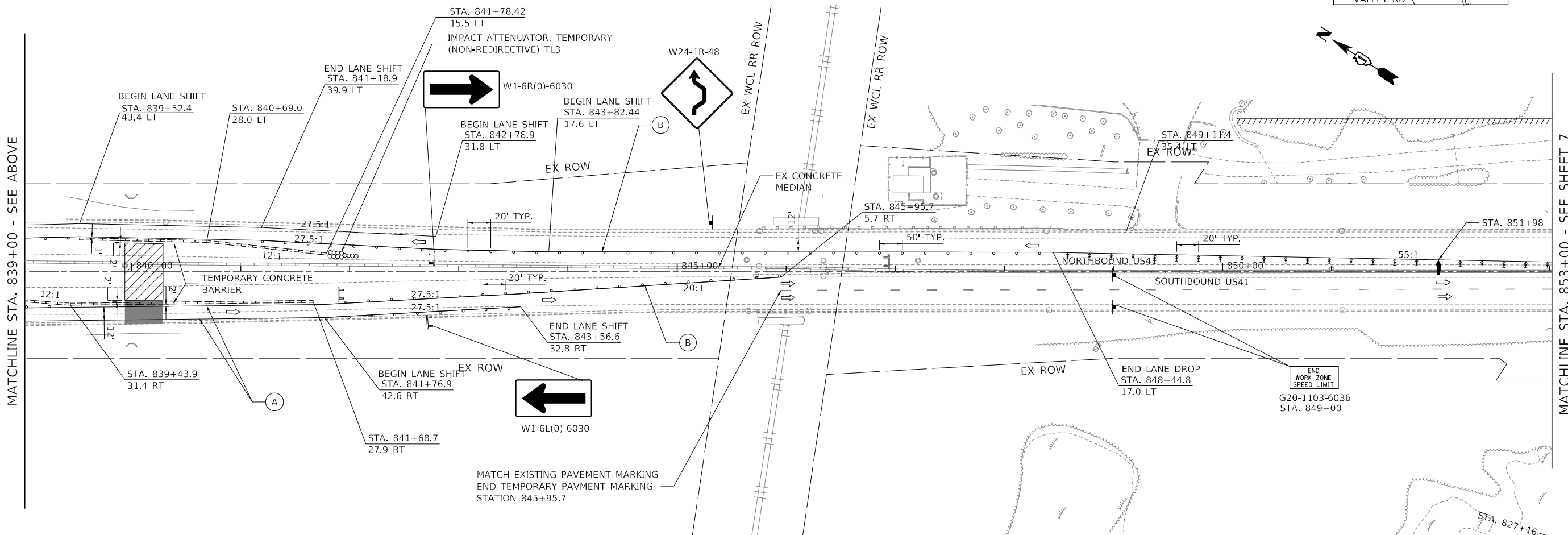
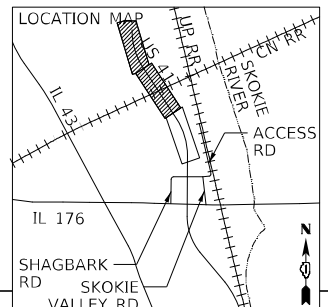
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 41 AT IL 176 INTERCHANGE - ADVANCED DRAINAGE IMPROVEMENTS
STAGING DETAIL - ADVANCED SIGNING - US 41 STAGE 1
 SCALE: N.T.S. SHEET 5 OF 13 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2026-2181-C.HBK	LAKE	60	20
CONTRACT NO. 80D46				
ILLINOIS FED. AID PROJECT				



- MOT LEGEND**
- (A) 4" LINE, WHITE
 - (B) 4" LINE, YELLOW
 - (C) 4" LINE, WHITE (10' LINE 30' SPACE)
 - TEMPORARY CONCRETE BARRIER
 - IMPACT ATTENUATOR, TEMPORARY
 - DRUM
 - ⇄ TRAFFIC LANE
 - ▨ WORK AREA/ PERMANENT PAVEMENT
 - PREVIOUSLY CONSTRUCTED PERMANENT PAVEMENT
 - ⊥ SIGN
 - ⊥ BARRICADE, TYPE III
 - ARROW BOARD
 - ⇄ DIRECTION INDICATOR BARRICADE WITH STEADY BURN
 - ⇄ MONODIRECTIONAL LIGHT



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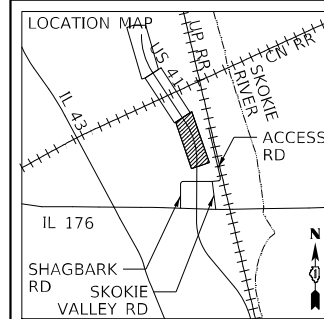
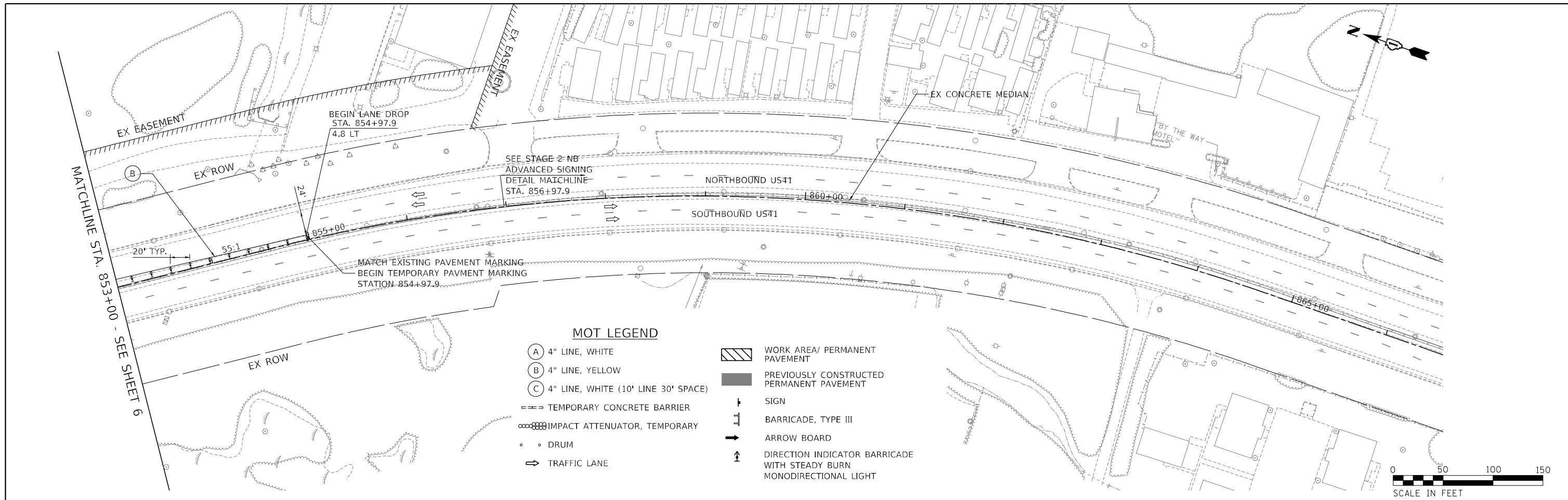
TYLin
 200 S. WACKER DR. SUITE 1400
 CHICAGO, IL 60606
 TEL: 312-777-2900

USER NAME = mark.gormely	DESIGNED - KDW	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - KDW	REVISED -
PLOT DATE = 3/18/2026	CHECKED - MPG	REVISED -
	DATE - 3/20/2026	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 41 AT IL 176 INTERCHANGE - ADVANCED DRAINAGE IMPROVEMENTS
MAINTENANCE OF TRAFFIC PLAN - US 41 STAGE 2
 SCALE: 1"=50' SHEET 6 OF 13 SHEETS STA. 822+00.00 TO STA. 853+00.00

F.A.P. RTE. 346	SECTION 2026-2181-C.HBK	COUNTY LAKE	TOTAL SHEETS 60	SHEET NO. 21
CONTRACT NO. 80D46			ILLINOIS FED. AID PROJECT	



MODEL: D:\p1\11
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TYlin
 200 S. WACKER DR. SUITE 1400
 CHICAGO, IL 60606
 TEL: 312-777-2900

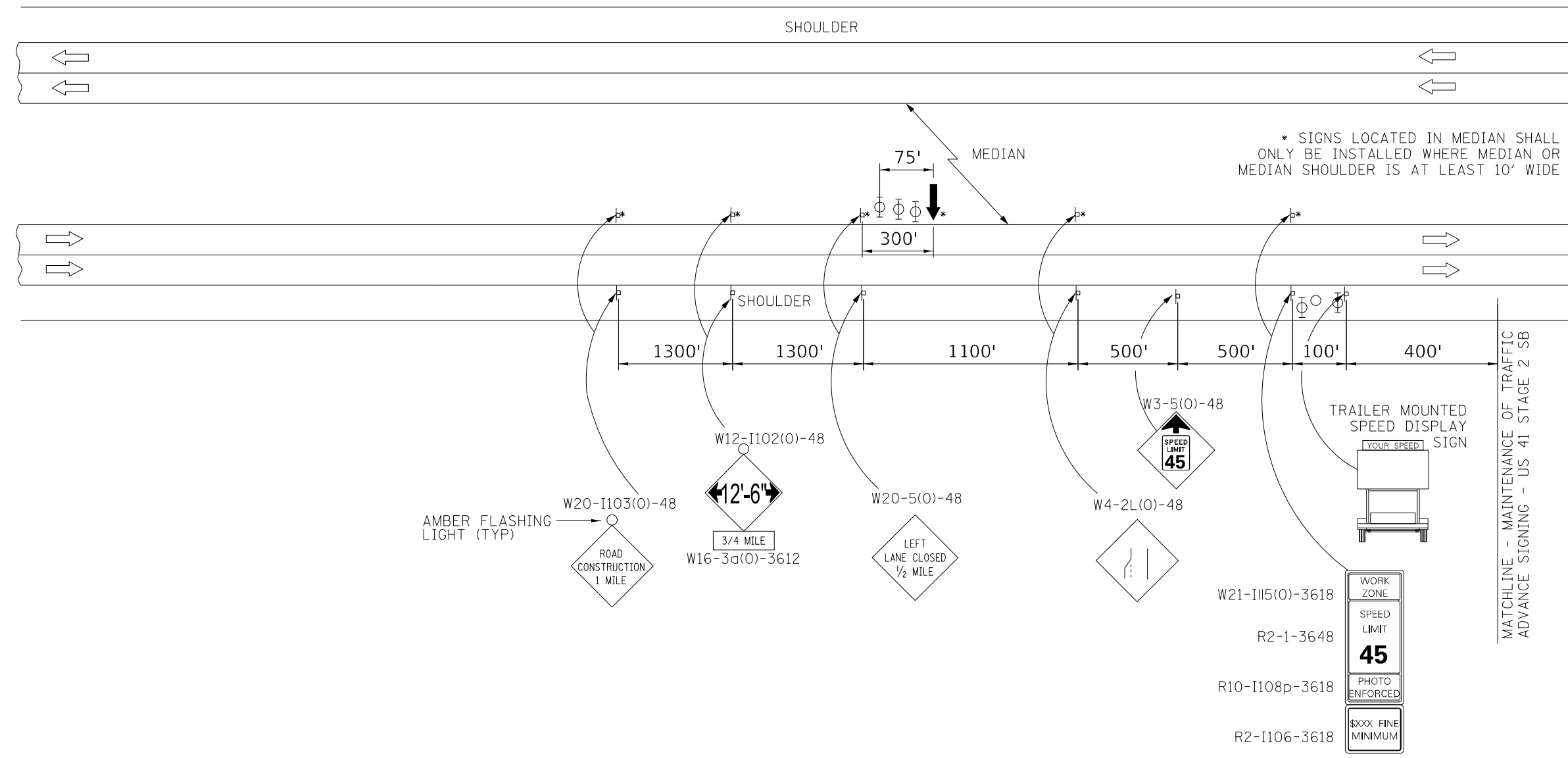
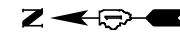
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DRAWN - KDW	REVISIONS -	
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PLOT DATE = 3/18/2026	DATE - 3/20/2026	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**US 41 AT IL 176 INTERCHANGE - ADVANCED DRAINAGE IMPROVEMENTS
 MAINTENANCE OF TRAFFIC PLAN - US 41 STAGE 2**

SCALE: 1"=50' SHEET 7 OF 13 SHEETS STA. 853+00.00 TO STA. 866+58.21

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2026-2181-C.HBK	LAKE	60	22
ILLINOIS FED. AID PROJECT			CONTRACT NO. 80D46	



SYMBOLS

- ⊥ SIGN
- ⊕ TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH MONODIRECTIONAL FLASHING LIGHT
- ↓ ARROW BOARD

ADVANCE SIGNAGE NOTES:

- ① TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES AT 15 M (50') CENTERS.
- ② WORK ZONE SPEED LIMIT SHALL BE SET TO 45 MPH.

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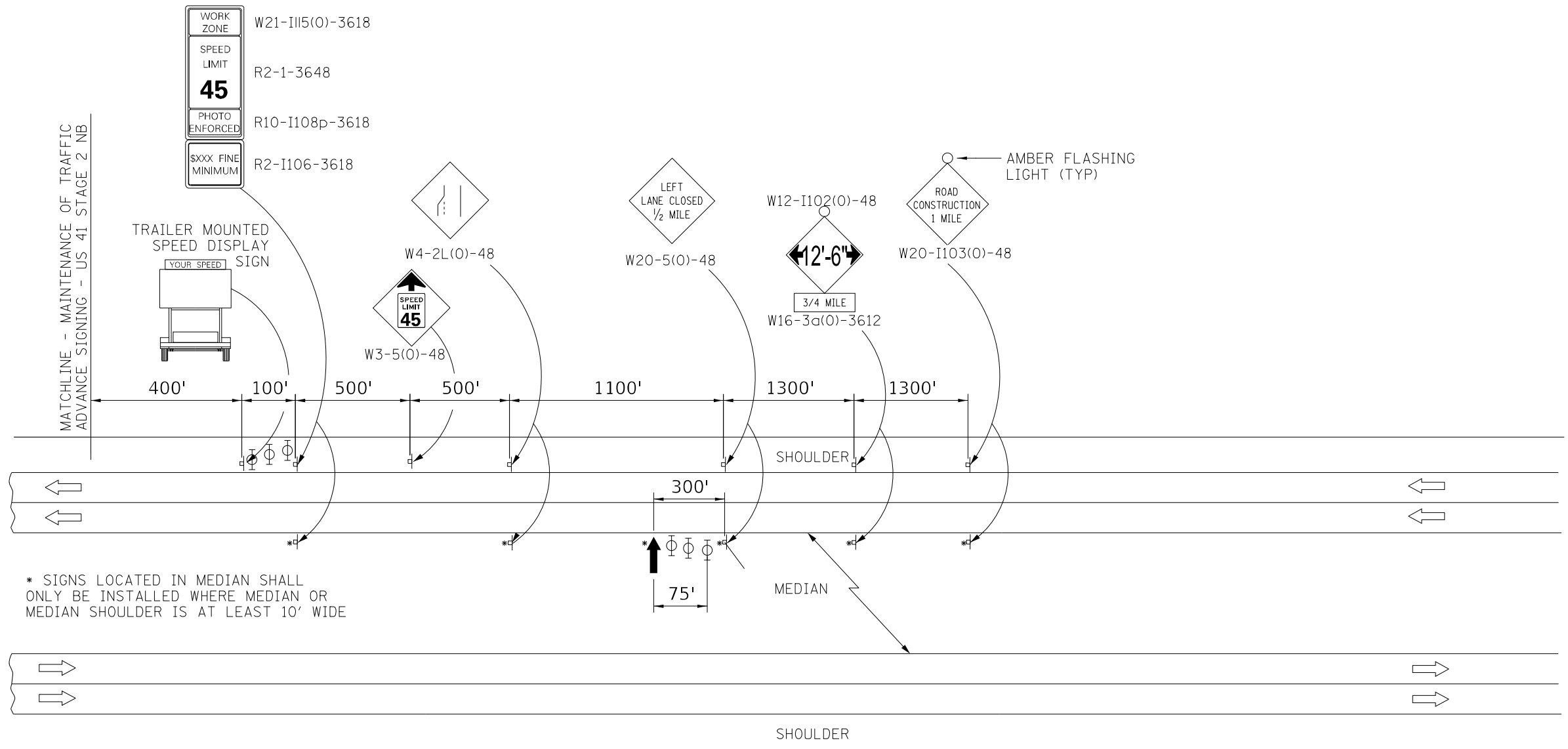
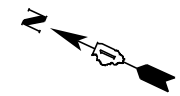
TYLin
 200 S. WACKER DR. SUITE 1400
 CHICAGO, IL 60606
 TEL: 312-777-2900

USER NAME = mark.gormely	DESIGNED - BLG	REVISED -
PLOT SCALE = 2,0000' / in.	DRAWN - BLG	REVISED -
PLOT DATE = 3/18/2026	CHECKED - MPG	REVISED -
	DATE - 3/20/2026	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 41 AT IL 176 INTERCHANGE - ADVANCED DRAINAGE IMPROVEMENTS
STAGING DETAIL - ADVANCED SIGNING - US 41 STAGE 2 SB
 SCALE: N.T.S. SHEET 8 OF 13 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE. 346	SECTION 2026-2181-C.HBK	COUNTY LAKE	TOTAL SHEETS 60	SHEET NO. 23
ILLINOIS FED. AID PROJECT			CONTRACT NO. 80D46	



* SIGNS LOCATED IN MEDIAN SHALL ONLY BE INSTALLED WHERE MEDIAN OR MEDIAN SHOULDER IS AT LEAST 10' WIDE

SYMBOLS

- ⊥ SIGN
- ⊕ TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH MONODIRECTIONAL FLASHING LIGHT
- ↓ ARROW BOARD

ADVANCE SIGNAGE NOTES:

- ① TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES AT 15 M (50') CENTERS.
- ② WORK ZONE SPEED LIMIT SHALL BE SET TO 45 MPH.

MODEL: D:\p1\11\80D46-2181-C\ADV-Signing-Stage 2_NB.dwg

TYLin
200 S. WACKER DR. SUITE 1400
CHICAGO, IL 60606
TEL: 312-777-2900

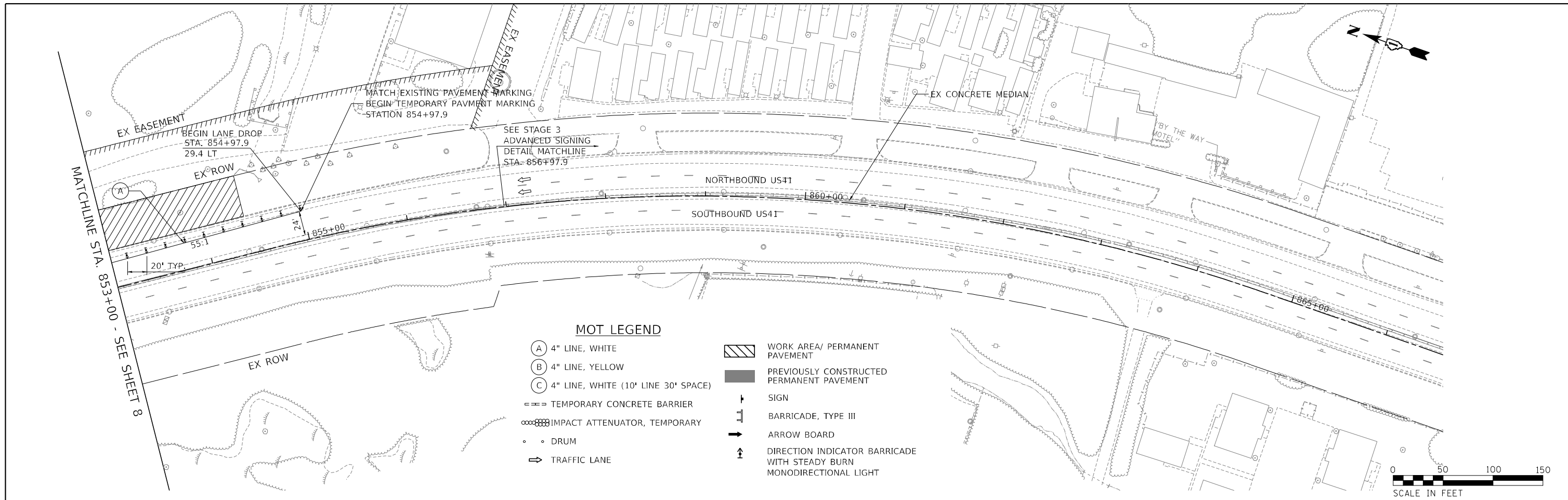
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PLOT DATE = 3/18/2026	DATE - 3/20/2026	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US 41 AT IL 176 INTERCHANGE - ADVANCED DRAINAGE IMPROVEMENTS
STAGING DETAIL - ADVANCED SIGNING - US 41 STAGE 2 NB**

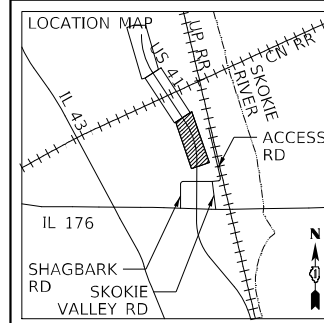
SCALE: N.T.S. SHEET 9 OF 13 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2026-2181-C.HBK	LAKE	60	24
ILLINOIS FED. AID PROJECT			CONTRACT NO. 80D46	



MOT LEGEND

- (A) 4" LINE, WHITE
- (B) 4" LINE, YELLOW
- (C) 4" LINE, WHITE (10' LINE 30' SPACE)
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR, TEMPORARY
- DRUM
- TRAFFIC LANE
- WORK AREA/ PERMANENT PAVEMENT
- PREVIOUSLY CONSTRUCTED PERMANENT PAVEMENT
- SIGN
- BARRICADE, TYPE III
- ARROW BOARD
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT



MODEL: D:\p\h\l
 FILE NAME: D:\80D46-2181-MOT-Stage3-r1102.dgn

TYLin
 200 S. WACKER DR. SUITE 1400
 CHICAGO, IL 60606
 TEL: 312-777-2900

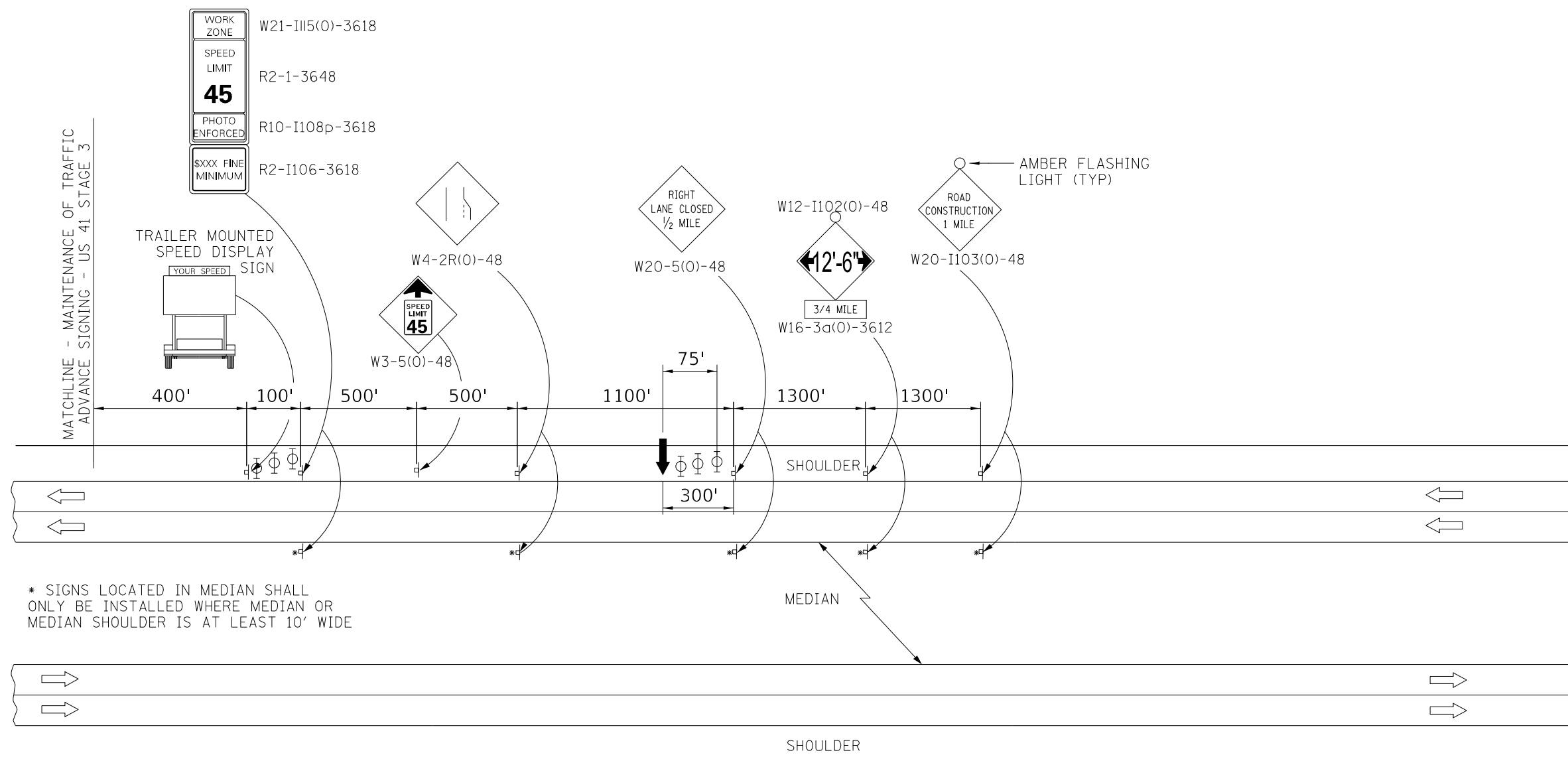
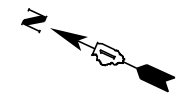
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PLOT DATE = 3/18/2026	DATE - 3/20/2026	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 41 AT IL 176 INTERCHANGE - ADVANCED DRAINAGE IMPROVEMENTS
MAINTENANCE OF TRAFFIC PLAN - US 41 STAGE 3

SCALE: 1"=50' SHEET 11 OF 13 SHEETS STA. 853+00.00 TO STA. 866+58.21

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2026-2181-C.HBK	LAKE	60	26
ILLINOIS FED. AID PROJECT			CONTRACT NO. 80D46	



* SIGNS LOCATED IN MEDIAN SHALL ONLY BE INSTALLED WHERE MEDIAN OR MEDIAN SHOULDER IS AT LEAST 10' WIDE

SYMBOLS

- ⊥ SIGN
- ⊕ TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH MONODIRECTIONAL FLASHING LIGHT
- ↓ ARROW BOARD

ADVANCE SIGNAGE NOTES:

- ① TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES AT 15 M (50') CENTERS.
- ② WORK ZONE SPEED LIMIT SHALL BE SET TO 45 MPH.

MODEL: Default
FILE NAME: D:\80D46-ahn-MOT-ADV-Signing-Stage_3.dgn

TYLin
200 S. WACKER DR. SUITE 1400
CHICAGO, IL 60606
TEL: 312-777-2900

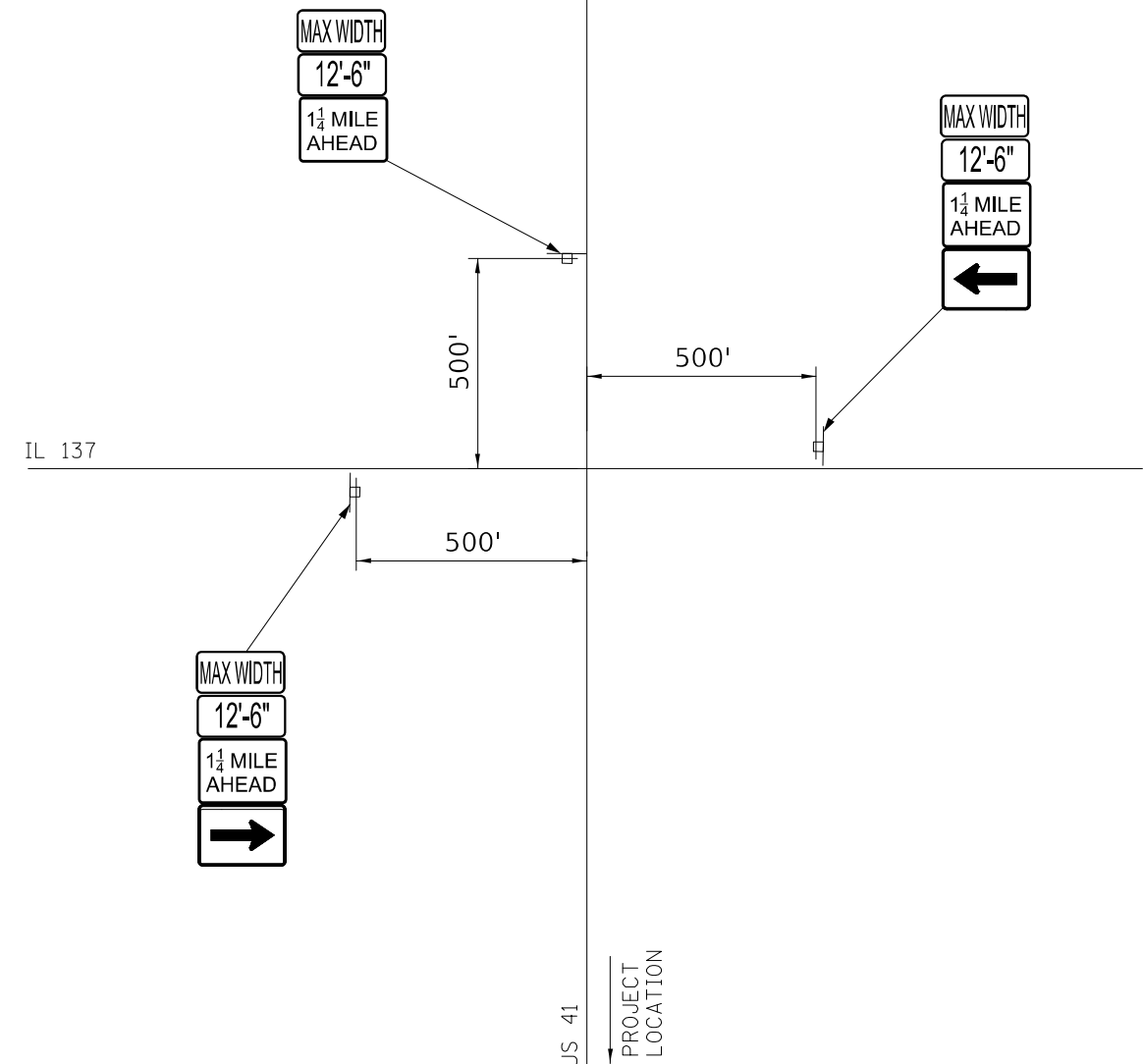
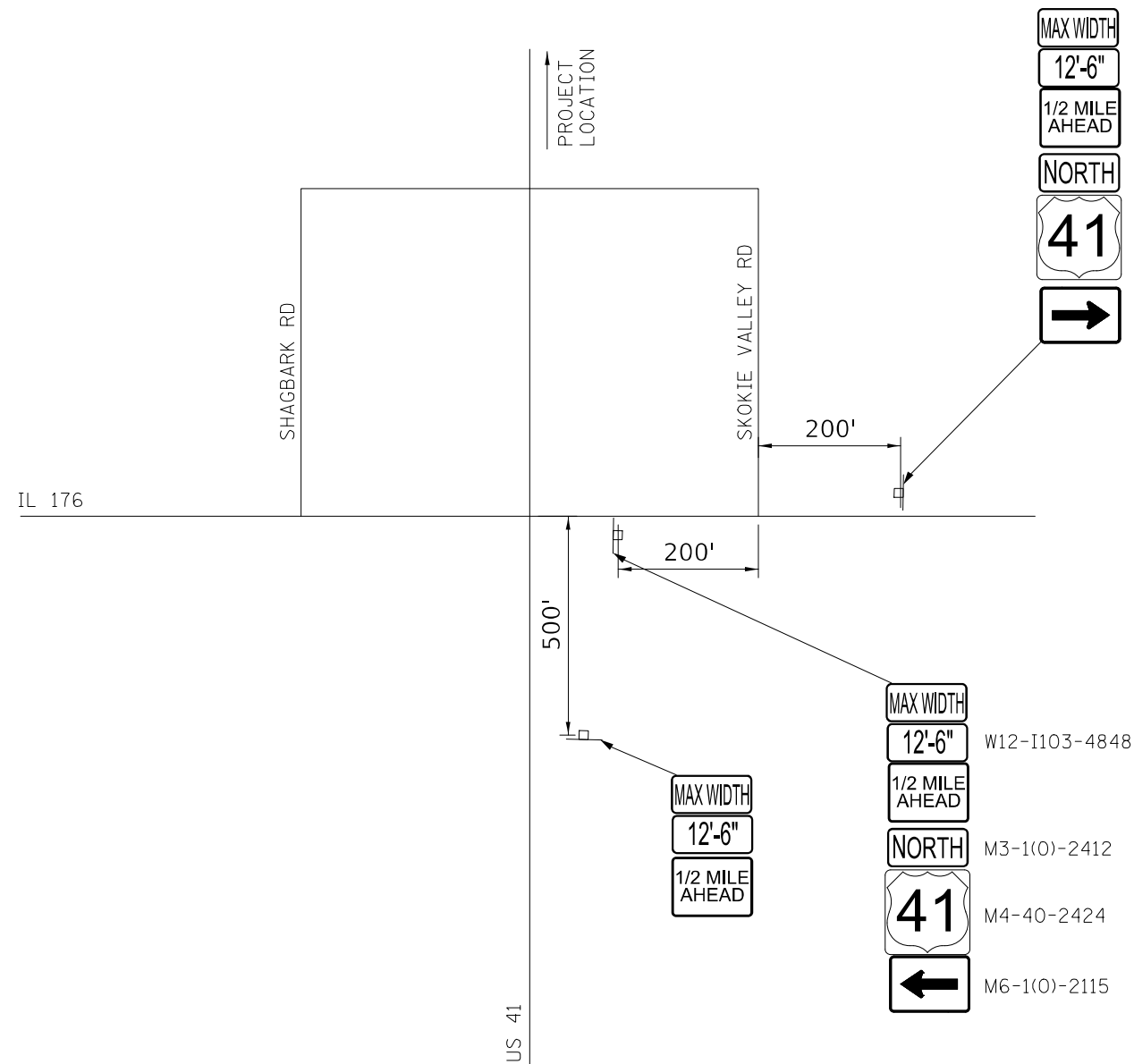
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	DATE - 3/20/2026	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US 41 AT IL 176 INTERCHANGE - ADVANCED DRAINAGE IMPROVEMENTS
STAGING DETAIL - ADVANCED SIGNING - US 41 STAGE 3**

SCALE: N.T.S. SHEET 12 OF 13 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2026-2181-C.HBK	LAKE	60	27
ILLINOIS			FED. AID PROJECT	



SYMBOLS

□ SIGN

MAX WIDTH SIGNING DETAIL

ADVANCE SIGNAGE NOTES:

- ① SOUTHBOUND US 41 12'-6" MAX WIDTH SIGNS SHALL BE INSTALLED FOR STAGES 1 & 2.
- ② NORTHBOUND US 41 12'-6" MAX WIDTH SIGNS SHALL BE INSTALLED FOR STAGES 2 & 3.

MODEL: Default
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TYLin
 200 S. WACKER DR. SUITE 1400
 CHICAGO, IL 60606
 TEL: 312-777-2900

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	DRAWN - CK	REVISED -
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PLOT DATE = 3/18/2026	DATE - 3/20/2026	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 41 AT IL 176 INTERCHANGE - ADVANCED DRAINAGE IMPROVEMENTS
STAGING DETAIL - INTERSECTION SIGNING FOR US-41 ACCESS

SCALE: N.T.S. SHEET 13 OF 13 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2026-2181-C.HBK	LAKE	60	28
ILLINOIS FED. AID PROJECT			CONTRACT NO. 80D46	

+92.3
 44.5 LT
 COMB CURB GUTTER REM (44000500)(38 LF)
 +30.3
 44.0 LT
 PAVEMENT REM (TYP) (INCL. IN PAVEMENT PATCHING ITEM)
 PAVED SHLD REMOVAL (TYP) (INCL. IN PAVEMENT PATCHING ITEM)
 +92.3
 46.7 RT
 CONC BARRIER REMOV (44001980) (38 LF)
 +30.3
 45.9 RT
 COMB CURB GUTTER REM (44000500) (38 LF)

EX ROW

EX WCL RR ROW

EX WCL RR ROW

EX ROW

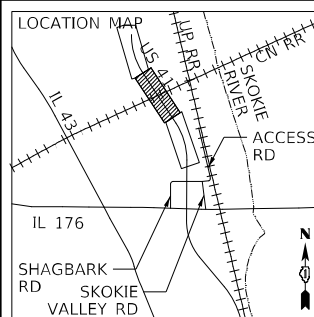
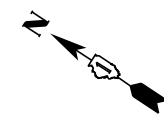
TREE PRUNING (20101300 & 20101350)

NORTHBOUND US 41

SOUTHBOUND US 41

EX ROW

EX ROW



MODEL: D:\p\h\l
 FILE NAME: D:\80D46\Removal-80D1.dgn

TYlin
 200 S. WACKER DR. SUITE 1400
 CHICAGO, IL 60606
 TEL: 312-777-2900

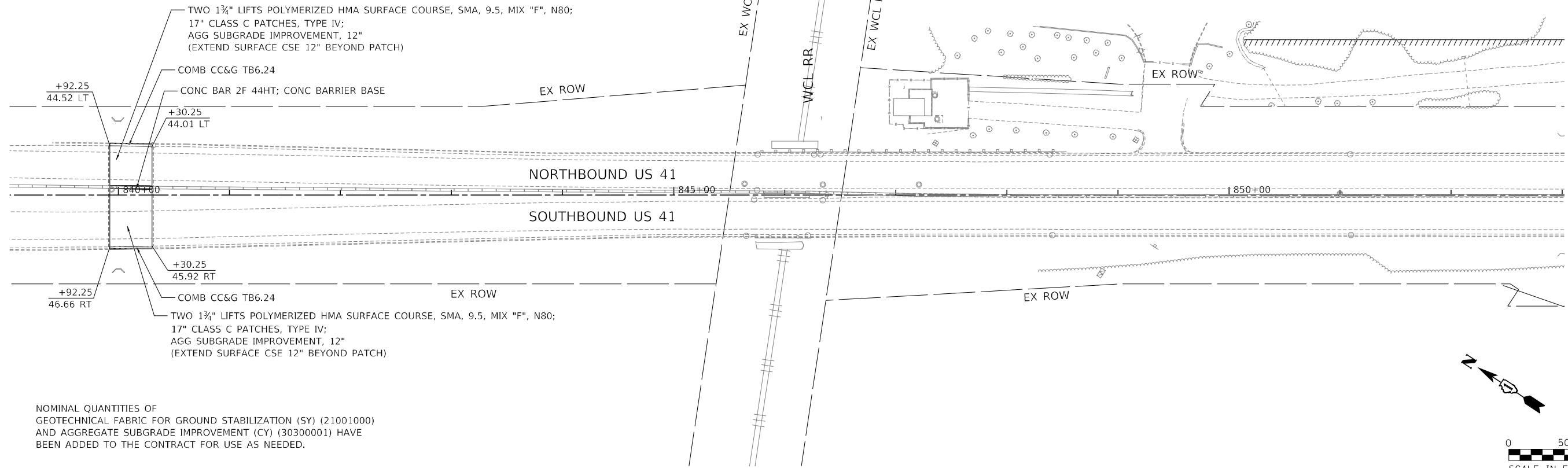
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DRAWN - BLG	REVISED -	
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

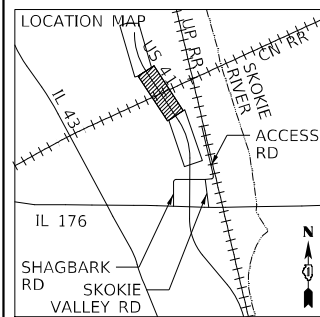
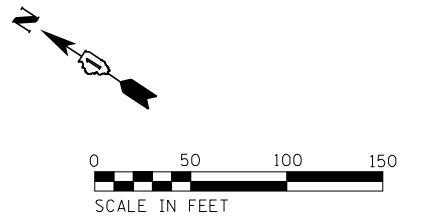
US 41 AT IL 176 INTERCHANGE - ADVANCED DRAINAGE IMPROVEMENTS
EXISTING CONDITIONS AND REMOVALS PLAN - US 41

SCALE: 1"=50' SHEET 1 OF 1 SHEETS STA. 839+00.00 TO STA. 853+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2026-2181-C.HBK	LAKE	60	29
ILLINOIS FED. AID PROJECT			CONTRACT NO. 80D46	



NOMINAL QUANTITIES OF
 GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (SY) (21001000)
 AND AGGREGATE SUBGRADE IMPROVEMENT (CY) (30300001) HAVE
 BEEN ADDED TO THE CONTRACT FOR USE AS NEEDED.



MODEL: D:\4646
 FILE NAME: D:\80D46-2181-Proposed-80D46-1.dgn

TYLin
 200 S. WACKER DR. SUITE 1400
 CHICAGO, IL 60606
 TEL: 312-777-2900

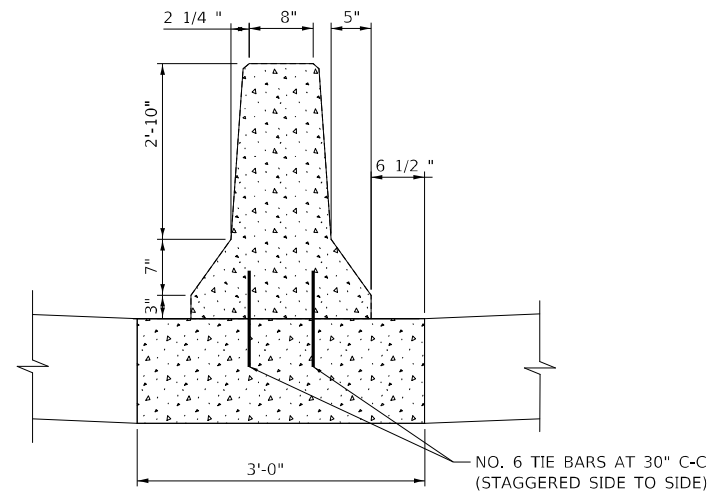
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PLOT DATE = 3/18/2026	DATE - 3/20/2026	REVISOR -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**US 41 AT IL 176 INTERCHANGE - ADVANCED DRAINAGE IMPROVEMENTS
 PROPOSED ROADWAY PLAN - US 41**

SCALE: 1"=50' SHEET 1 OF 1 SHEETS STA. 839+00.00 TO STA. 853+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2026-2181-C.HBK	LAKE	60	30
ILLINOIS FED. AID PROJECT			CONTRACT NO. 80D46	



CONCRETE BARRIER AND BASE

PAID FOR AS:
 CONCRETE BARRIER, DOUBLE FACE, 44-INCH HEIGHT (63700280)
 AND CONCRETE BARRIER BASE (63700900)
 (ACTUAL DIMENSIONS TO MATCH IN THE FIELD MAY VARY)

MODEL: D:\p\h\l
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TYlin
 200 S. WACKER DR. SUITE 1400
 CHICAGO, IL 60606
 TEL: 312-777-2900

USER NAME = mark.gormely	DESIGNED - BLG	REVISED -
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PLOT DATE = 3/18/2026	DATE - 3/20/2026	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**US 41 AT IL 176 INTERCHANGE – ADVANCED DRAINAGE IMPROVEMENTS
 MISCELLANEOUS DETAILS – CONCRETE BARRIER**

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2026-2181-C.HBK	LAKE	60	31
ILLINOIS			FED. AID PROJECT	
			CONTRACT NO. 80D46	


EROSION AND SEDIMENT CONTROL GENERAL NOTES

1. ALL EROSION AND SEDIMENT CONTROL (ESC) MEASURES WILL BE MAINTAINED IN ACCORDANCE WITH THE IDOT EROSION AND SEDIMENT CONTROL FIELD GUIDE FOR CONSTRUCTION INSPECTION FOUND ON THE CONSTRUCTION TAB AT:
([HTTP://WWW.IDOT.ILLINOIS.GOV/TRANSPORTATION-SYSTEM/ENVIRONMENT/EROSION-AND-SEDIMENT-CONTROL](http://www.idot.illinois.gov/transportation-system/environment/erosion-and-sediment-control)).
2. THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR MAINTENANCE OF ALL SOIL EROSION CONTROL DURING CONSTRUCTION.
3. THE CONTRACTOR SHALL CHECK ALL ESC MEASURES WEEKLY AND AFTER EACH RAINFALL, 0.5 INCHES OR GREATER IN A 24 HOUR PERIOD, OR EQUIVALENT SNOWFALL. ADDITIONALLY DURING WINTER MONTHS, ALL MEASURES SHOULD BE CHECKED BY THE CONTRACTOR AFTER EACH SIGNIFICANT SNOWMELT.
4. THE CONTRACTOR SHOULD PROVIDE TO THE RE A PLAN TO ENSURE THAT A STABILIZED FLOW LINE WILL BE PROVIDED DURING STORM SEWER CONSTRUCTION. THE USE OF A STABILIZED FLOW LINE BETWEEN INSTALLED STORM SEWER AND OPEN DISTURBANCE WILL REDUCE THE POTENTIAL FOR THE OFFSITE DISCHARGE OF SEDIMENT-BEARING WATERS, ESPECIALLY WHEN RAIN IS FORECASTED, SO THAT FLOW WILL NOT ERODE. LACK OF APPROVED PLAN OR FAILURE TO COMPLY WILL RESULT IN AN ESC DEFICIENCY DEDUCTION.
5. ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES, WHICH OBSTRUCTS THE NATURAL FLOW OF WATER, SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCIDENTAL.
6. TEMPORARY OR PERMANENT STABILIZATION SHALL BE INITIATED IMMEDIATELY UPON COMPLETION OF DISTURBANCE OR IF THE WORK AREA IS TO BE LEFT UNDISTURBED FOR 14 DAYS OR MORE.
7. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR PROLONG FINAL GRADING AND SHAPING SO THAT THE ENTIRE PROJECT CAN BE PERMANENTLY SEEDED AT ONE TIME.
8. EROSION CONTROL ITEMS ARE CONSIDERED TO BE A HIGH PRIORITY ON THIS CONTRACT. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE RESIDENT ENGINEER.

EROSION AND SEDIMENT CONTROL STAGING NOTES

1. ALL EROSION AND SEDIMENT CONTROL (ESC) MEASURES SHOWN ON THE FOLLOWING PLANS SHALL BE INSTALLED AT THE BEGINNING OF THE STAGE IDENTIFIED ON THE PLAN OR AS SOON AS NEEDED (SEE MAINTENANCE OF TRAFFIC PLANS) AND MAINTAINED THROUGHOUT THE SUBSEQUENT STAGES.

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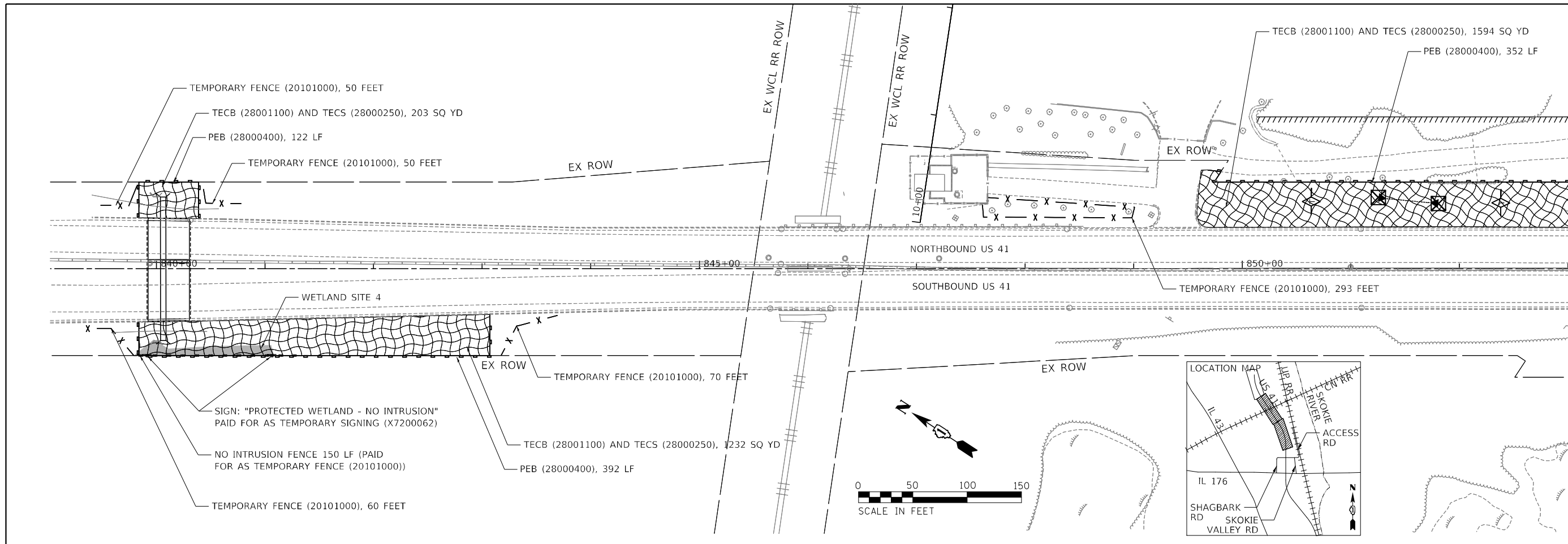
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

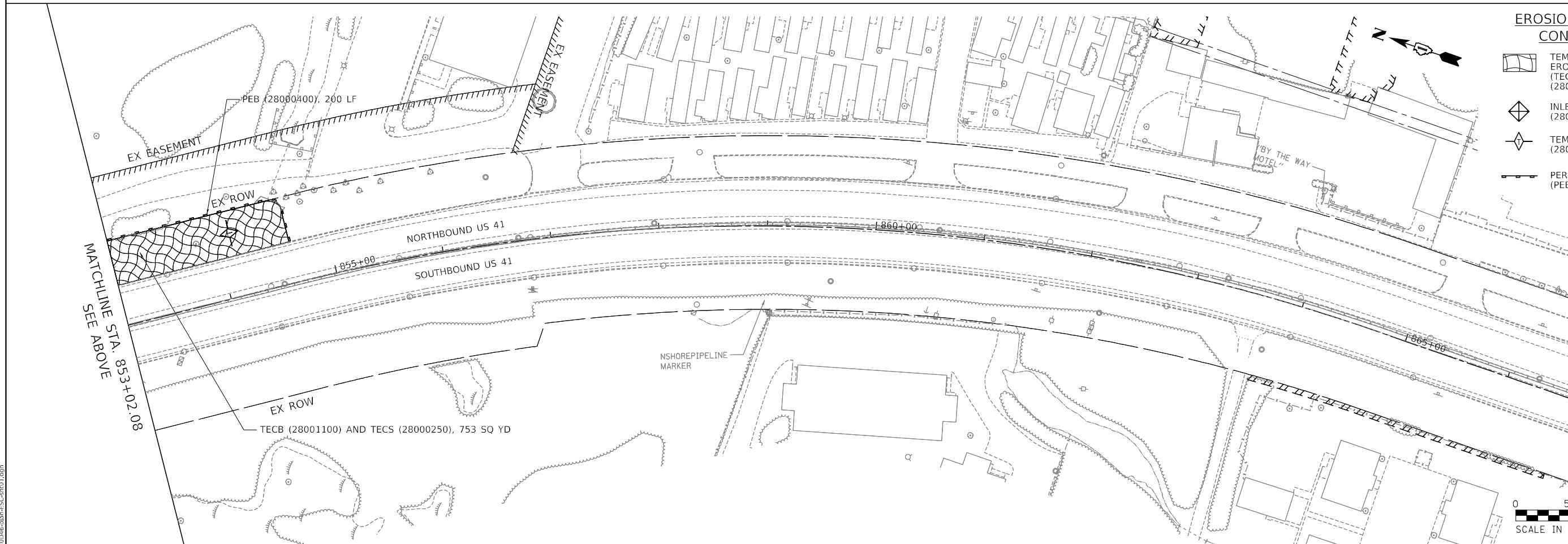
US 41 AT IL 176 INTERCHANGE – ADVANCED DRAINAGE IMPROVEMENTS
EROSION AND SEDIMENT CONTROL NOTES





SCALE: 1"=50' SHEET 1 OF 2 SHEETS STA. 838+00.00 TO STA. 863+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2026-2181-C.HBK	LAKE	60	32
			CONTRACT NO. 80D46	
			ILLINOIS FED. AID PROJECT	



MATCHLINE STA. 853+02.08
SEE BELOW



- EROSION AND SEDIMENT CONTROL LEGEND**
-  TEMPORARY SEEDING AND EROSION CONTROL BLANKET (TECB (28000250) AND TECB (28000400))
 -  INLET AND PIPE PROTECTION (28000500)
 -  TEMPORARY DITCH CHECK (28000305)
 -  PERIMETER EROSION BARRIER (PEB (28000400))

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TYlin
200 S. WACKER DR. SUITE 1400
CHICAGO, IL 60606
TEL: 312-777-2900

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




**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

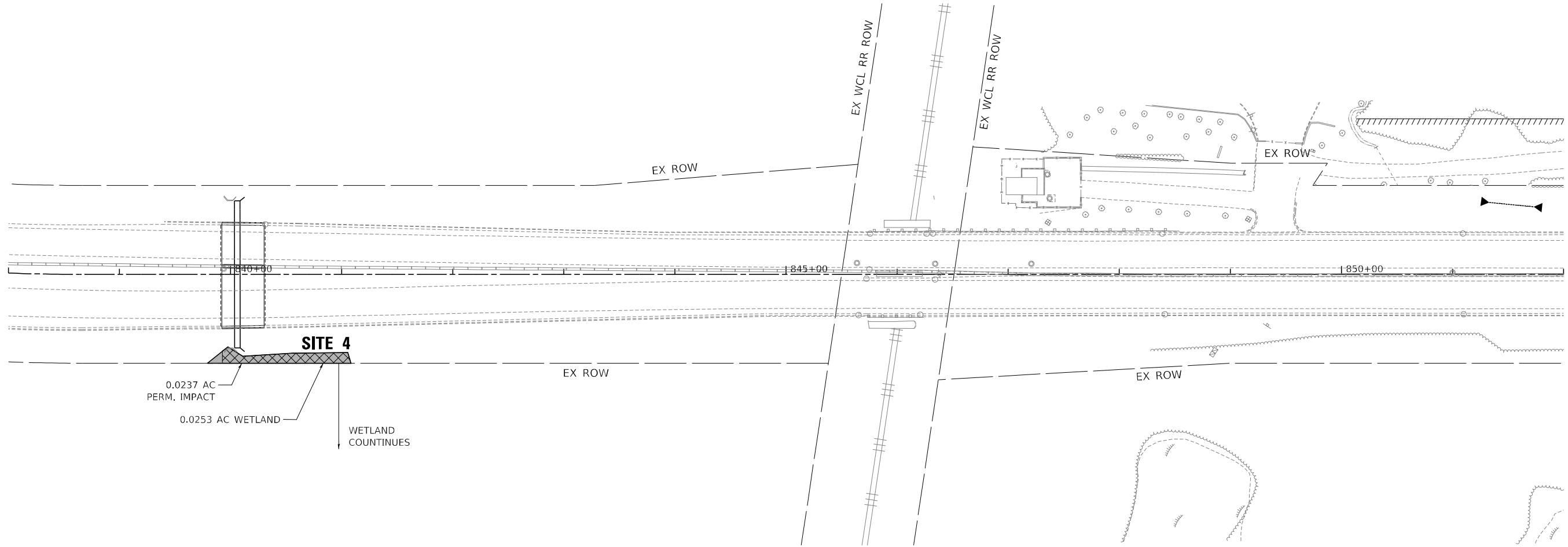
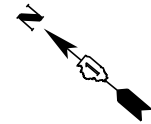
**US 41 AT IL 176 INTERCHANGE - ADVANCED DRAINAGE IMPROVEMENTS
EROSION CONTROL PLAN - US 41**

SCALE: 1"=50' SHEET 2 OF 2 SHEETS STA. 839+00.00 TO STA. 853+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2026-2181-C.HBK	LAKE	60	33
CONTRACT NO. 80D46				
ILLINOIS FED. AID PROJECT				

WETLAND LEGEND

-  TEMPORARY IMPACT AREA
-  PERMANENT IMPACT AREA
-  WETLAND
-  WATERS OF THE U.S. (WOUS)
-  EX. R.O.W.
-  PR. R.O.W.
-  PR. TEMPORARY EASEMENT
-  PR. PERMANENT EASEMENT
-  PROPOSED BACK OF GUTTER
-  PROPOSED E.O.P.
-  PROPOSED SIDEWALK



MODEL: Default
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TYlin
200 S. WACKER DR. SUITE 1400
CHICAGO, IL 60606
TEL: 312-777-2900

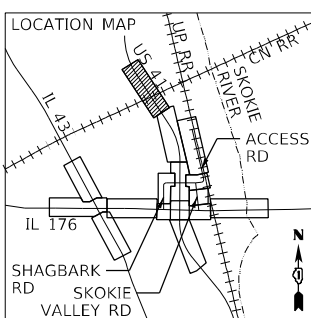
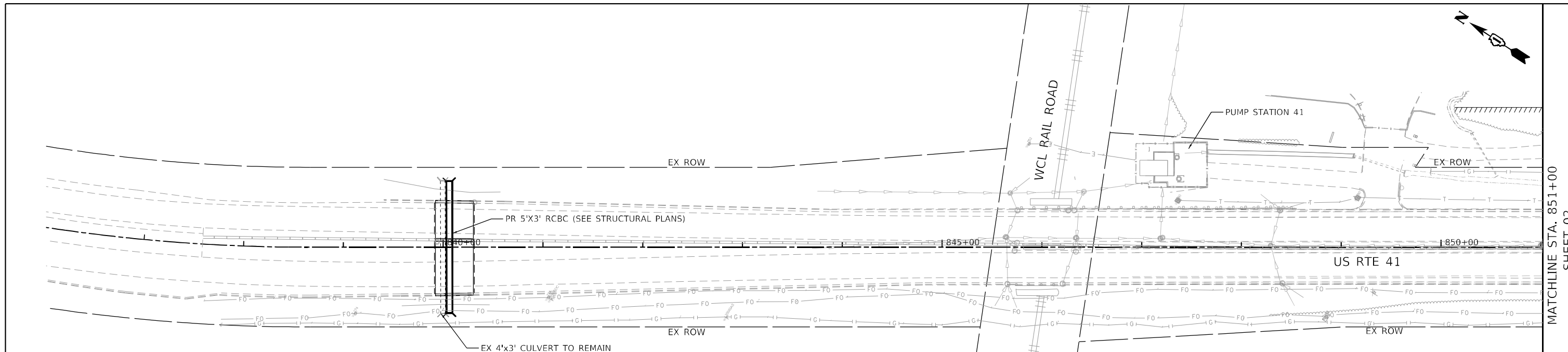
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PLOT DATE = 3/18/2026		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

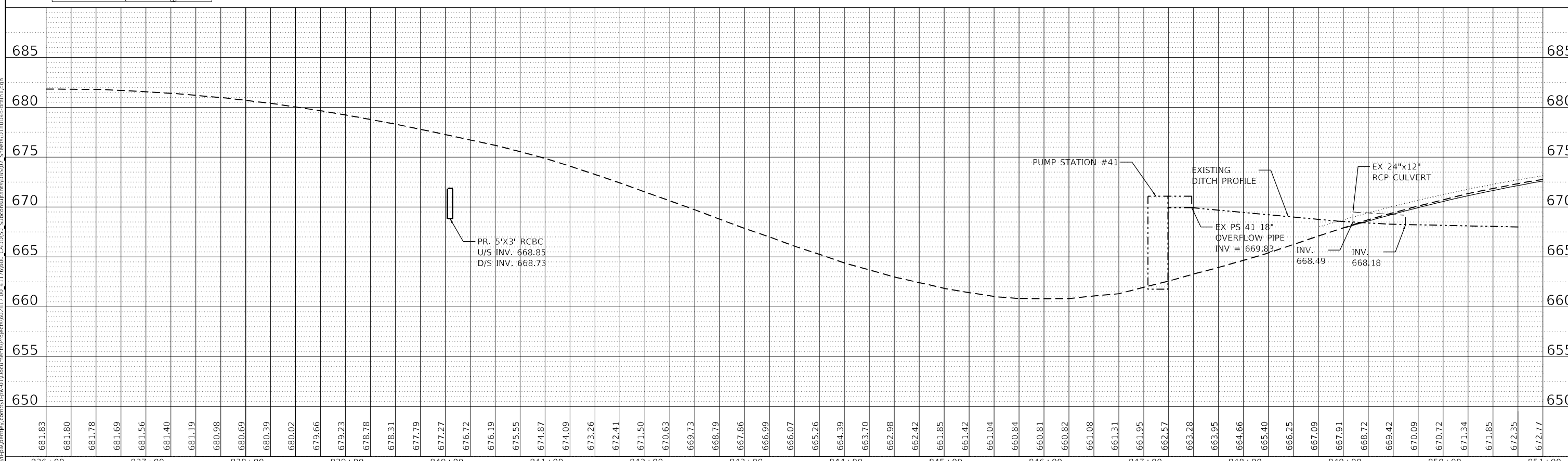
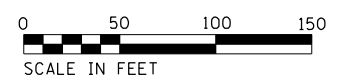
**US 41 AT IL 176 INTERCHANGE - ADVANCED DRAINAGE IMPROVEMENTS
WETLAND EXHIBIT**

SCALE: 1"=50' SHEET 1 OF 1 SHEETS STA. 838+00.00 TO STA. 851+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2026-2181-C.HBK	LAKE	60	34
ILLINOIS FED. AID PROJECT			CONTRACT NO. 80D46	



DRAINAGE LEGEND		EXISTING	PROPOSED
PR STORM SEWER	XX	○	○
PR STRUCTURE	XX	○	○
PR DITCH	~	—	—
RP FLARED END SECTION	◀	----	====
PR RIPRAP	⊙	⌒	⌒
		○	○
		—	—
		----	====
		⌒	⌒
		○	○
		○	○



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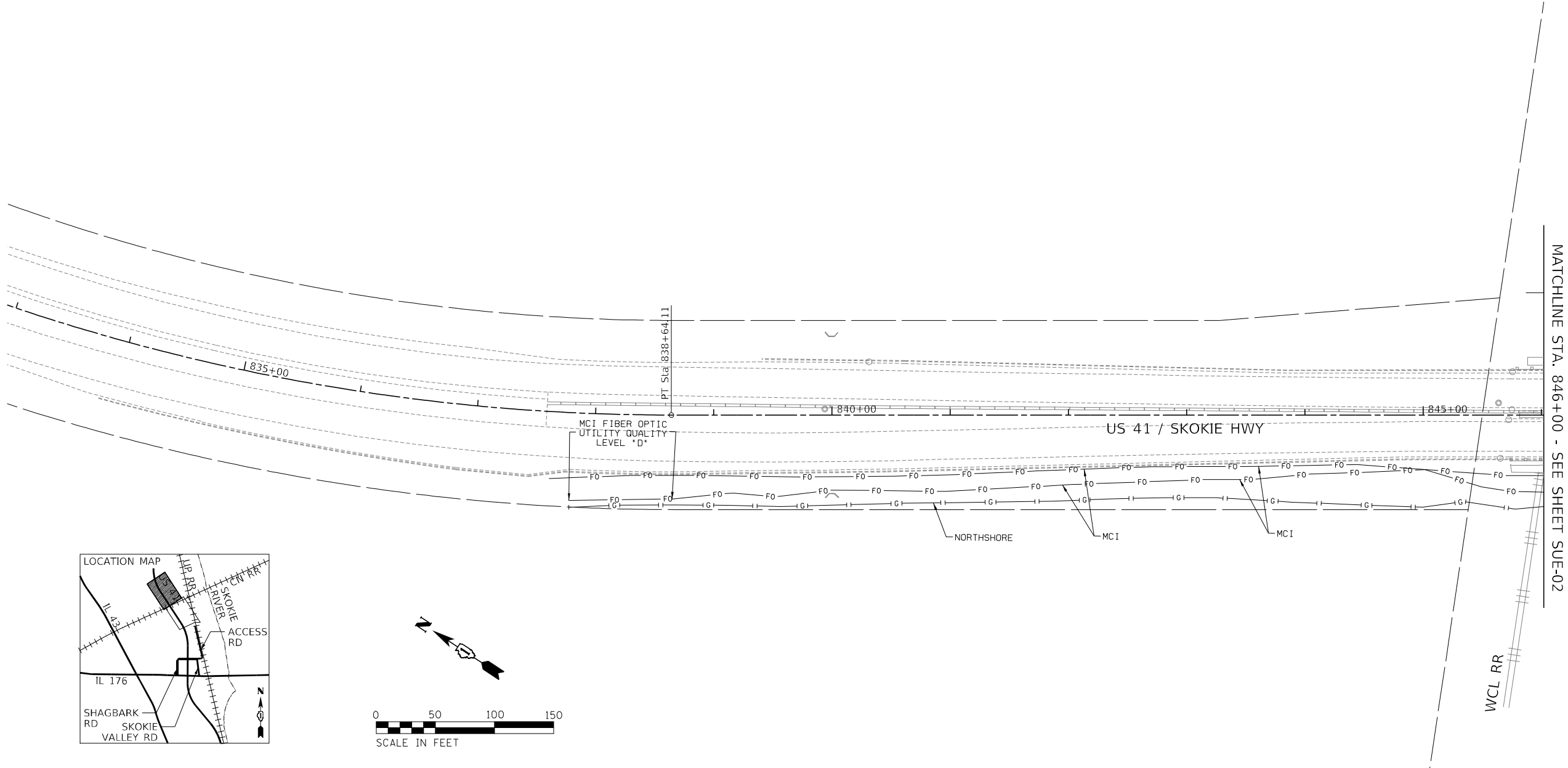
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

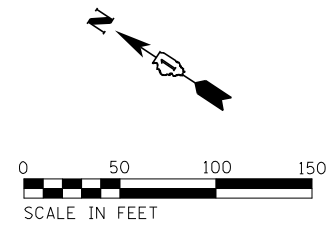
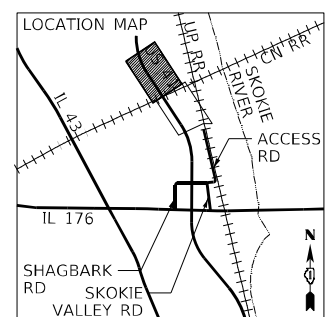
US 41 AT IL 176 INTERCHANGE - ADVANCED DRAINAGE IMPROVEMENTS
DRAINAGE PLAN AND PROFILE

F.A.P. RTE. 346	SECTION 2026-2181-C,HBK	COUNTY LAKE	TOTAL SHEETS 60	SHEET NO. 35
CONTRACT NO. 80D46			ILLINOIS FED. AID PROJECT	

MATCHLINE STA. 851+00
 - SHEET 02



MATCHLINE STA. 846+00 - SEE SHEET SUE-02



MODEL PLAN FULL
FILE NAME: D:\80D46\ave-sh01.dgn

TYlin
200 S. WACKER DR. SUITE 1400
CHICAGO, IL 60606
TEL: 312-777-2900

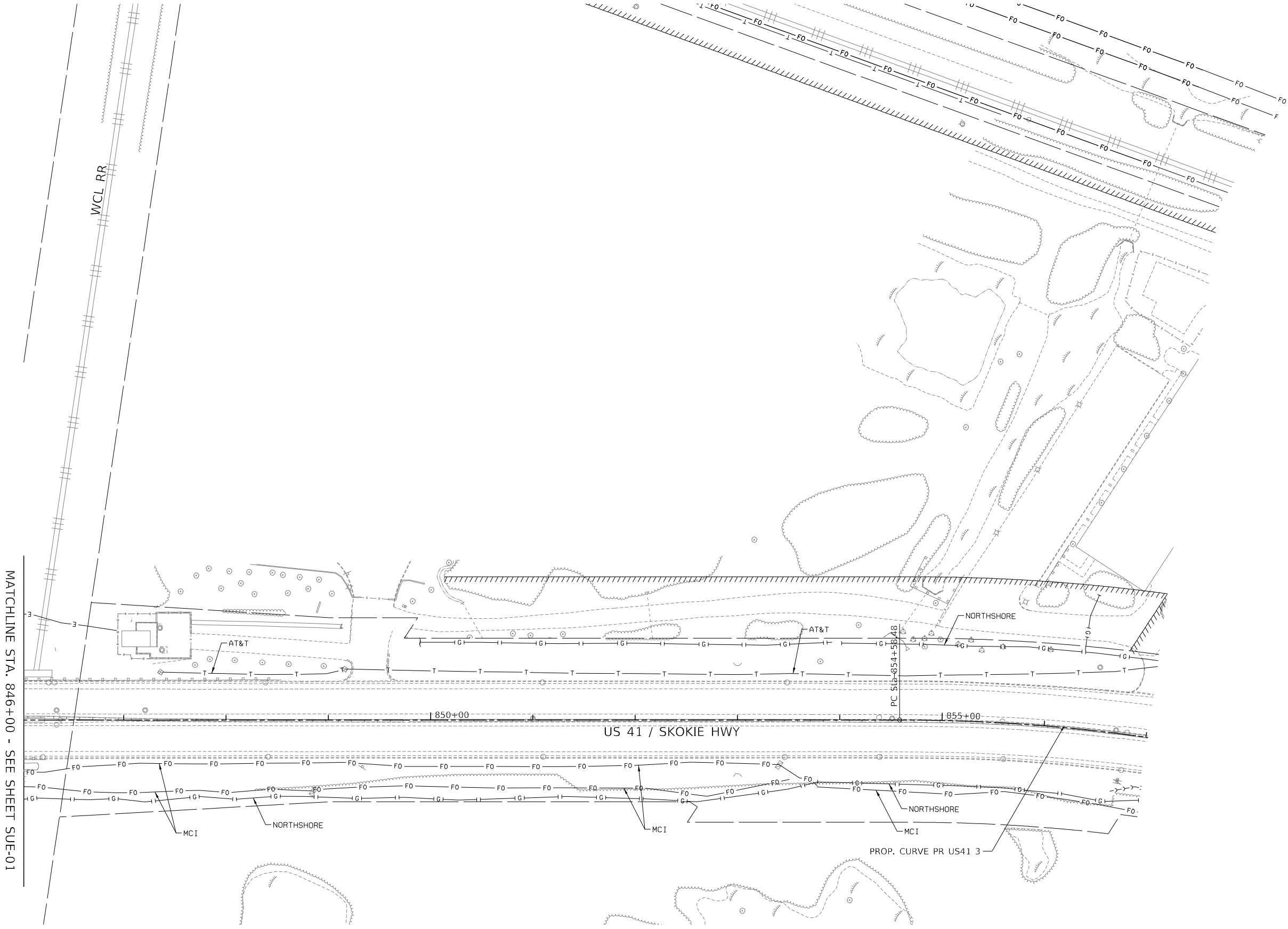
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	DATE - 3/20/2026	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

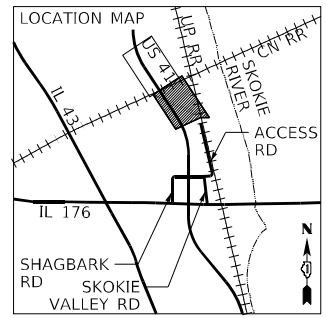
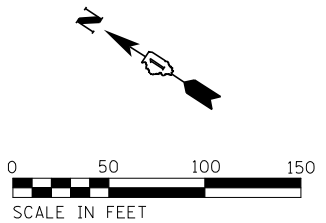
**US 41 AT IL 176 INTERCHANGE - ADVANCED DRAINAGE IMPROVEMENTS
SUE UTILITY**

SCALE: 1"=50' SHEET 1 OF 2 SHEETS STA. 833+00.00 TO STA. 846+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2026-2181-C.HBK	LAKE	60	38
CONTRACT NO. 80D46				
ILLINOIS FED. AID PROJECT				



MATCHLINE STA. 846+00 - SEE SHEET SUE-01



MODEL PLAN FULL
FILE NAME: D:\80D46\plan\p02.dgn

TYlin
200 S. WACKER DR. SUITE 1400
CHICAGO, IL 60606
TEL: 312-777-2900

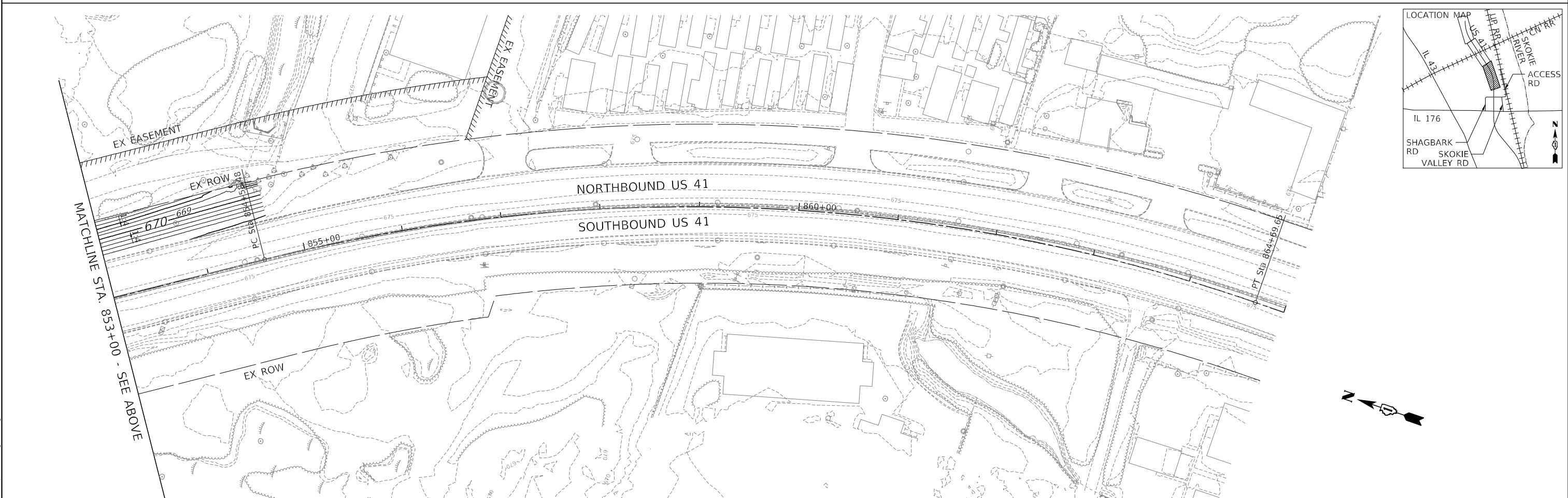
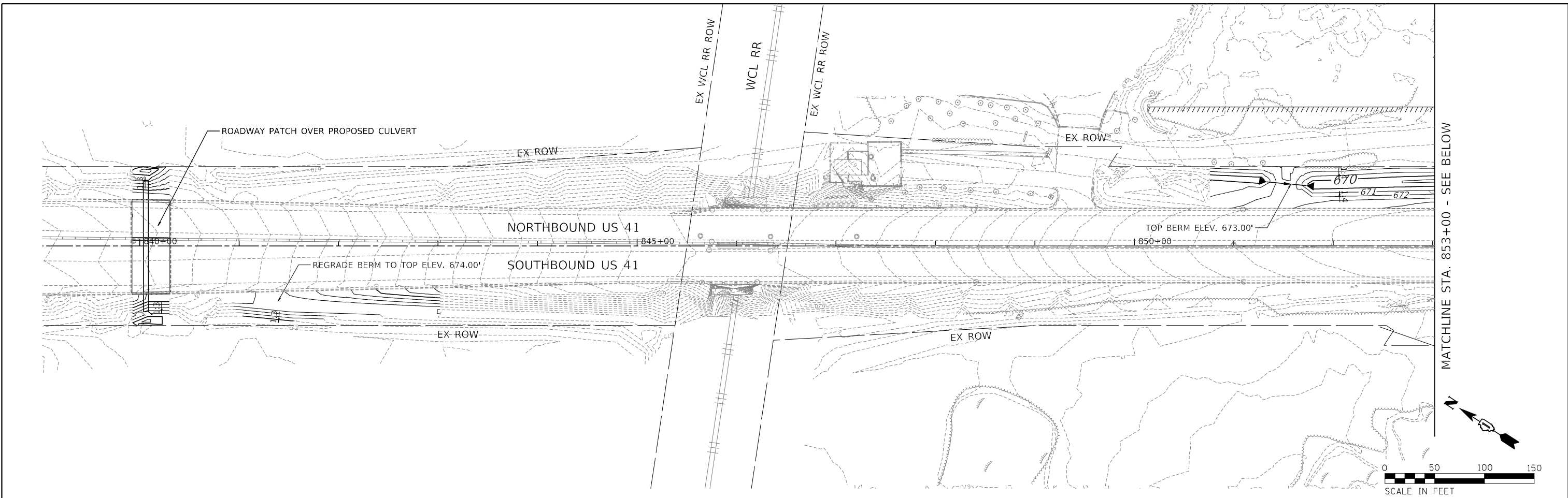
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PLOT DATE = 3/18/2026	DATE - 3/20/2026	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US 41 AT IL 176 INTERCHANGE - ADVANCED DRAINAGE IMPROVEMENTS
SUE UTILITY**

SCALE: 1"=50' SHEET 2 OF 2 SHEETS STA. 846+00.00 TO STA. 857+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2026-2181-C.HBK	LAKE	60	39
CONTRACT NO. 80D46				
ILLINOIS FED. AID PROJECT				



MODEL: Default
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TYlin
200 S. WACKER DR. SUITE 1400
CHICAGO, IL 60606
TEL: 312-777-2900

USER NAME = mark.gormely	DESIGNED - MPG	REVISED -
DRAWN - MPG	REVISED -	
PLOT SCALE = 100,0000' / in.	CHECKED - DBD	REVISED -
PLOT DATE = 3/18/2026	DATE - 3/20/2026	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

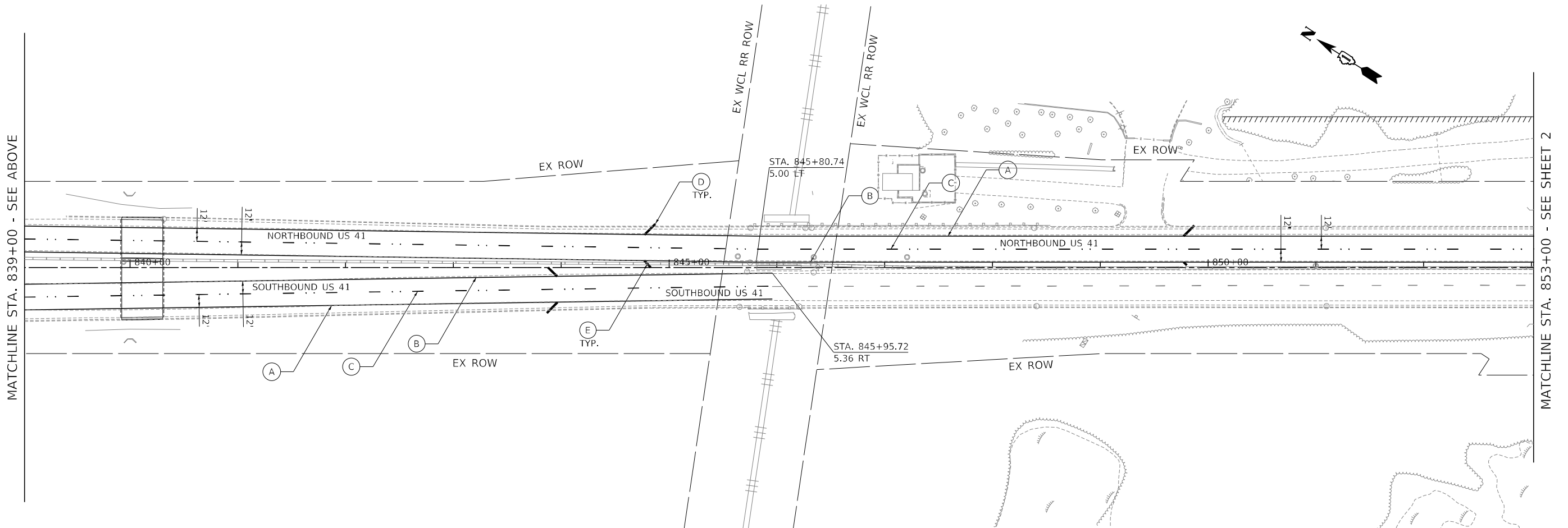
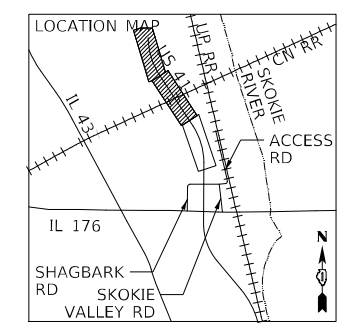
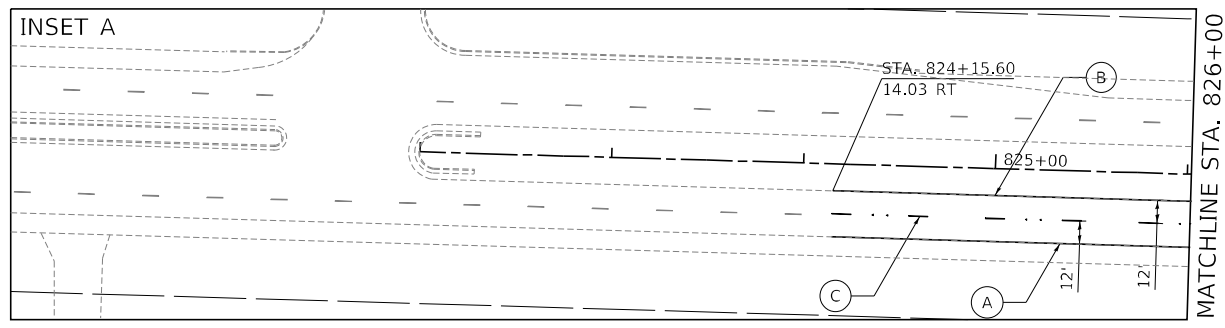
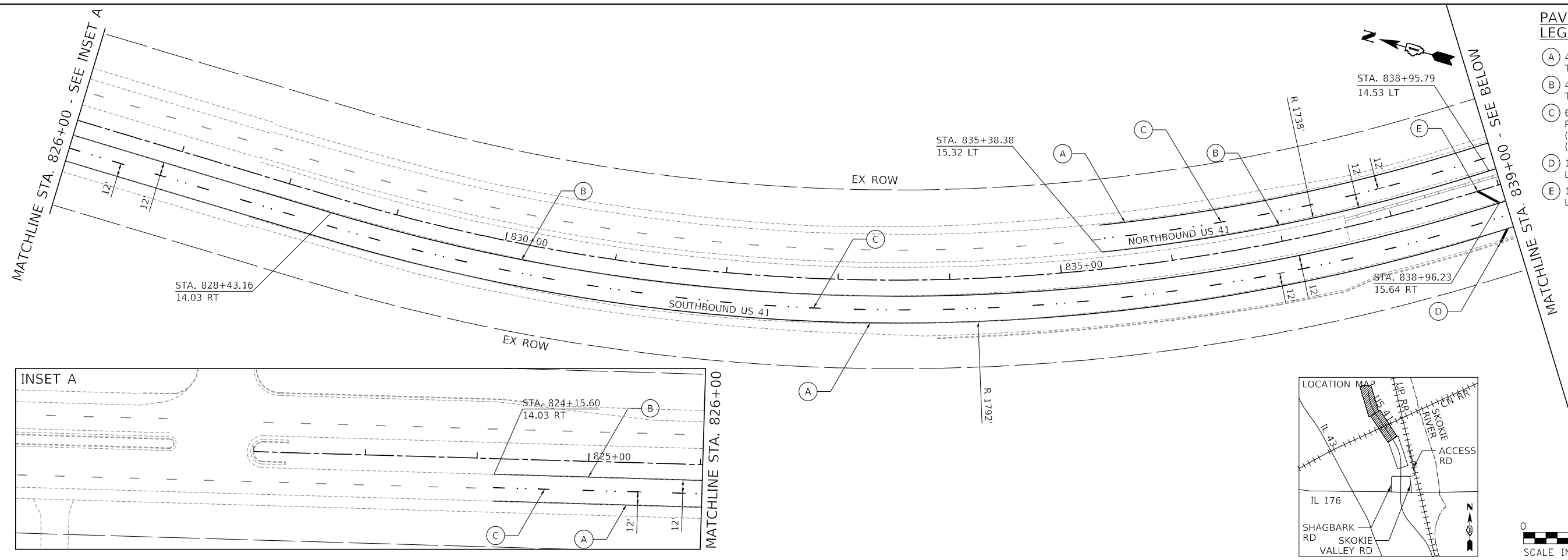
**US 41 AT IL 176 INTERCHANGE - ADVANCED DRAINAGE IMPROVEMENTS
GRADING PLAN - US 41**

SCALE: 1"=50' SHEET 1 OF 1 SHEETS STA. 839+00.00 TO STA. 865+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2026-2181-C.HBK	LAKE	60	40
CONTRACT NO. 80D46				
ILLINOIS FED. AID PROJECT				

PAVEMENT MARKING LEGEND

- (A) 4" WHITE SOLID LINE THERMOPLASTIC
- (B) 4", YELLOW SOLID LINE THERMOPLASTIC
- (C) 6", WHITE LANE LINE PREFORMED PLASTIC TYPE D (10' LINE 30' SPACE) (GROOVED) WITH RRP
- (D) 12" DIAGONALS, WHITE SOLID LINE THERMOPLASTIC
- (E) 12" DIAGONALS, YELLOW SOLID LINE THERMOPLASTIC



MODEL: D:\p1\11\1100046-2\1100046-2.dgn

TYlin
200 S. WACKER DR. SUITE 1400
CHICAGO, IL 60606
TEL: 312-777-2900

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PLOT DATE = 3/18/2026	CHECKED - MPG	REVISED -
	DATE - 3/20/2026	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US 41 AT IL 176 INTERCHANGE - ADVANCED DRAINAGE IMPROVEMENTS
PAVEMENT MARKING PLAN - US 41**

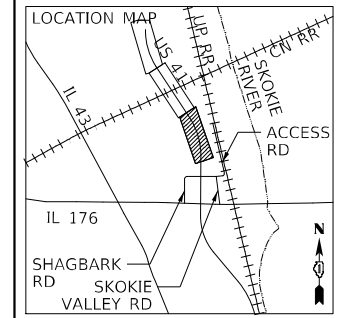
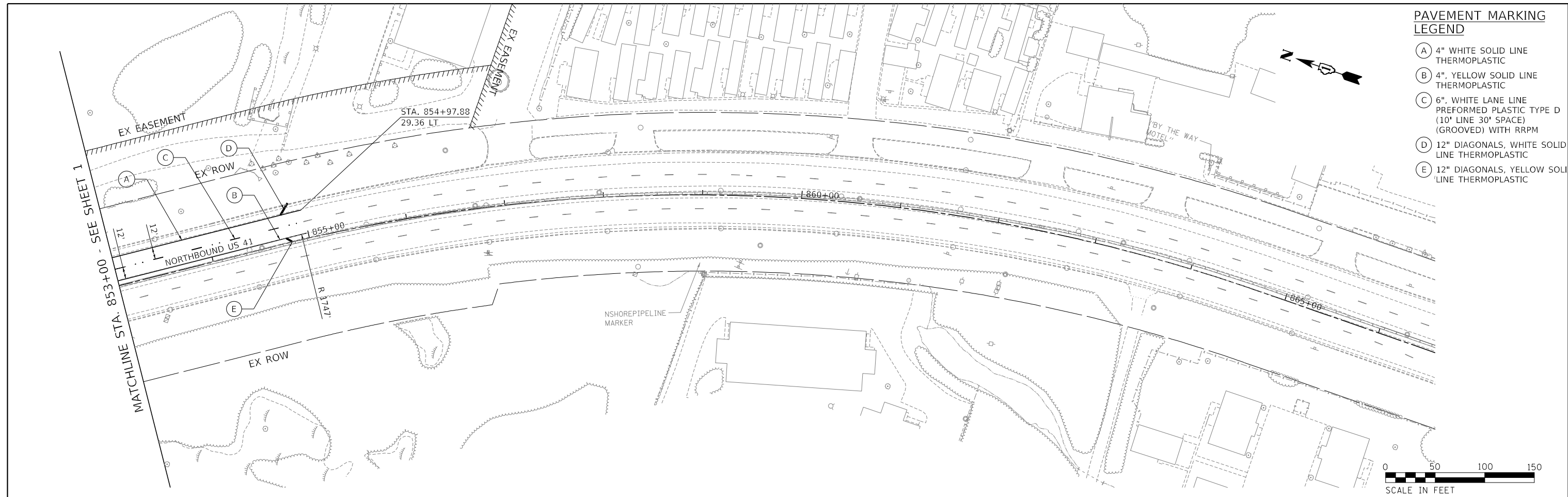
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2026-2181-C.HBK	LAKE	60	41
CONTRACT NO. 80D46				

SCALE: 1"=50' SHEET 1 OF 2 SHEETS STA. 822+00.00 TO STA. 853+00.00

ILLINOIS FED. AID PROJECT

PAVEMENT MARKING LEGEND

- (A) 4" WHITE SOLID LINE THERMOPLASTIC
- (B) 4" YELLOW SOLID LINE THERMOPLASTIC
- (C) 6" WHITE LANE LINE PREFORMED PLASTIC TYPE D (10' LINE 30' SPACE) (GROOVED) WITH RRP
- (D) 12" DIAGONALS, WHITE SOLID LINE THERMOPLASTIC
- (E) 12" DIAGONALS, YELLOW SOLID LINE THERMOPLASTIC



MODEL: D:\p\h\...
 FILE NAME: D:\80D46-2\h\p\m\k\sh02.dgn

TYlin
 200 S. WACKER DR. SUITE 1400
 CHICAGO, IL 60606
 TEL: 312-777-2900

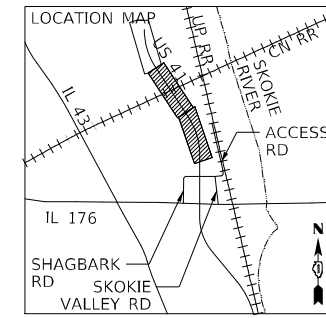
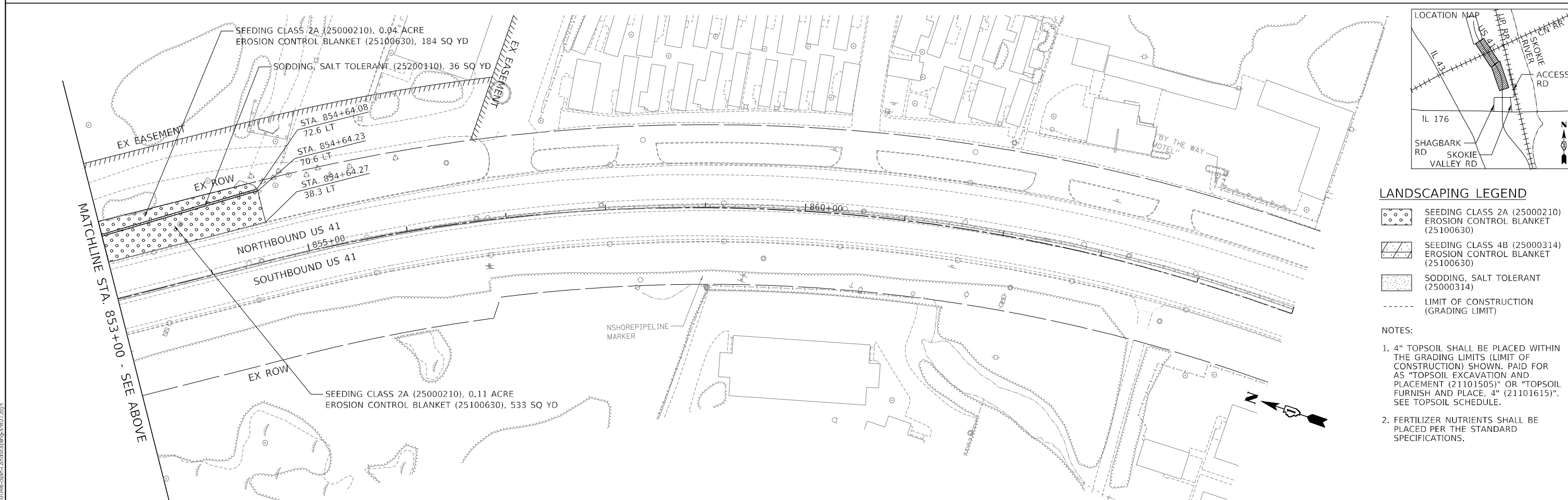
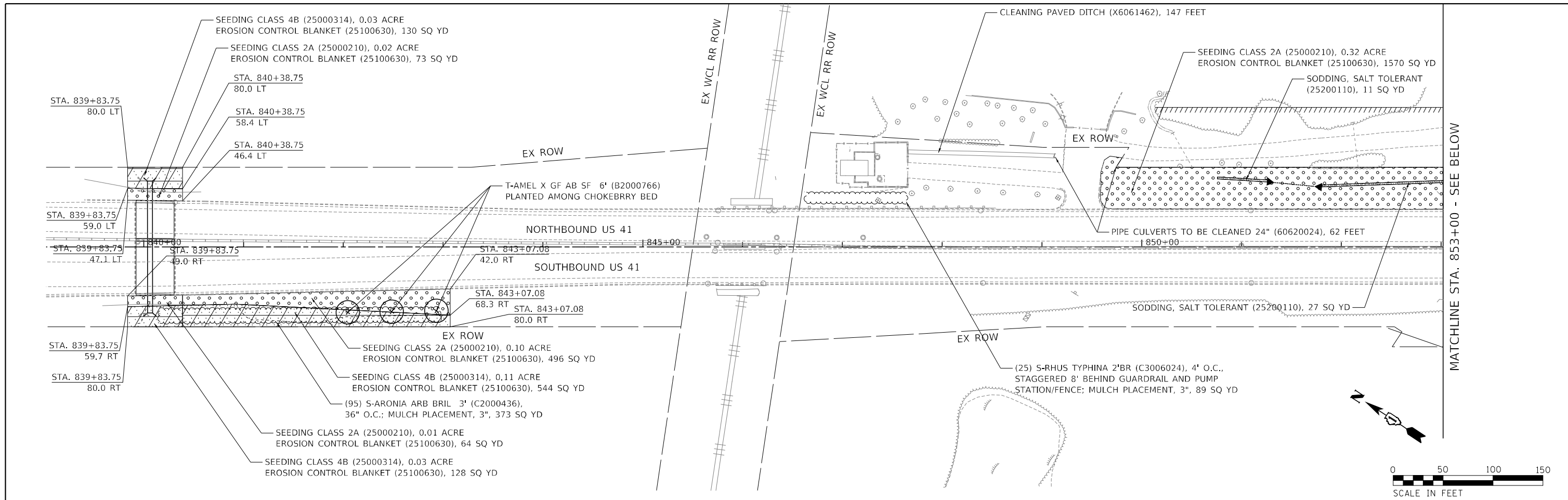
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PLOT DATE = 3/18/2026	DATE - 3/20/2026	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**US 41 AT IL 176 INTERCHANGE - ADVANCED DRAINAGE IMPROVEMENTS
 PAVEMENT MARKING PLAN - US 41**

SCALE: 1"=50' SHEET 2 OF 2 SHEETS STA. 853+00.00 TO STA. 866+58.21

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2026-2181-C.HBK	LAKE	60	42
ILLINOIS			CONTRACT NO. 80D46	
FED. AID PROJECT				



LANDSCAPING LEGEND

	SEEDING CLASS 2A (25000210) EROSION CONTROL BLANKET (25100630)
	SEEDING CLASS 4B (25000314) EROSION CONTROL BLANKET (25100630)
	SODDING, SALT TOLERANT (25000314)
	LIMIT OF CONSTRUCTION (GRADING LIMIT)

- NOTES:**
- 4" TOPSOIL SHALL BE PLACED WITHIN THE GRADING LIMITS (LIMIT OF CONSTRUCTION) SHOWN. PAID FOR AS "TOPSOIL EXCAVATION AND PLACEMENT (21101505)" OR "TOPSOIL FURNISH AND PLACE, 4" (21101615)". SEE TOPSOIL SCHEDULE.
 - FERTILIZER NUTRIENTS SHALL BE PLACED PER THE STANDARD SPECIFICATIONS.

MODEL: Default
FILE NAME: D:\80D46-2\80D46-2\landscaping\80D46.dgn

TYlin
200 S. WACKER DR. SUITE 1400
CHICAGO, IL 60606
TEL: 312-777-2900

USER NAME = mark.gormely	DESIGNED - BNS	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - BNS	REVISED -
PLOT DATE = 5/8/2026	CHECKED - MPG	REVISED -
	DATE - 3/20/2026	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US 41 AT IL 176 INTERCHANGE - ADVANCED DRAINAGE IMPROVEMENTS
LANDSCAPING PLAN - US 41**

SCALE: 1"=50' SHEET 1 OF 1 SHEETS STA. 839+00.00 TO STA. 853+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2026-2181-C.HBK	LAKE	60	43
CONTRACT NO. 80D46				
ILLINOIS FED. AID PROJECT				

Bench Mark: Iron rod with cap
43.49 RT. Sta. 842+21.85 (US 41) Elev. 670.58

Existing Structure to remain in place:
Existing reinforced concrete, box culvert with clear rise of 3'
and clear span of 4' running perpendicular to US 41 (FAP 346).

Traffic is to be maintained utilizing staged construction. The
road shall remain open to at least one lane of traffic in each
direction at all times.

Signed *AP*
Spiros Pantazis, S.E. II, Lic. No. 081-006448
CHICAGO, ILLINOIS
Expires 11-30-2026
Date 3/20/2026

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

DESIGN STRESSES
FIELD UNITS

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

PRECAST UNITS

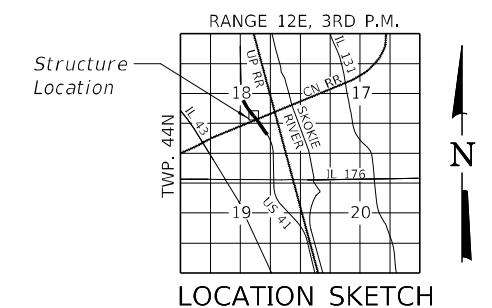
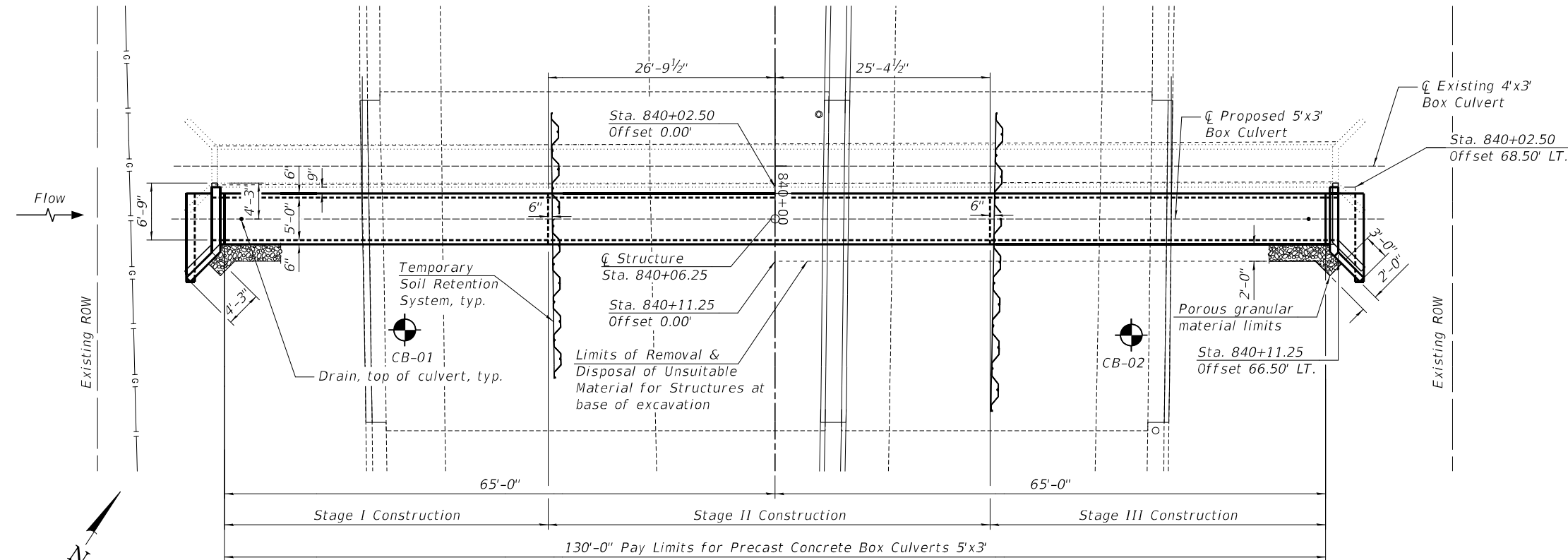
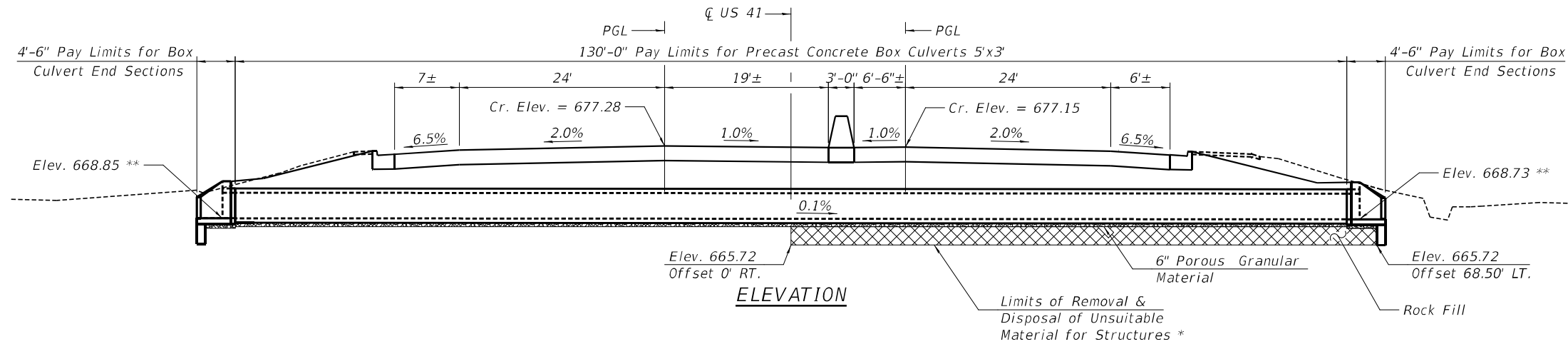
$f'_c = 5,000$ psi
 $f_y = 65,000$ psi (Welded Wire Reinforcement)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.078g
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.128g
Soil Site Class = D

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

** Proposed invert to match existing culvert invert.
Contractor to verify in field.



PLAN

WATERWAY INFORMATION

		Existing Overtopping Elev. = 671.8 (Roadway) 672.2 (U/S Berm)		at Sta. 841+50					
		Drainage Area = 0.21 sq. mi.		Proposed Overtopping Elev. = 671.8 (Roadway) 674.0 (U/S Berm)					
				at Sta. 841+50					
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	67.5						673.0	672.8
	50	128.43 (EX) 123.11 (PRO)							
Base	100	169.64							
Overtopping									
Max. Calc.									

GENERAL PLAN & ELEVATION
IL 176 OVER U.S. ROUTE 41
F.A.P. RTE. 346 SECTION 2026-2181-C, HKB
LAKE COUNTY
STATION 840+06.25

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DATE: 3/17/2026

TYLin
200 S. WACKER DR. SUITE 1400
CHICAGO, IL 60606
TEL: 312-777-2900

USER NAME = mark.gormely	DESIGNED - SP	REvised -
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DRAWN - CMT	REvised -
CHECKED - SP	REvised -
DATE - 3/20/2026	REvised -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION

SHEET 5-1 OF 5-6 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2026-2181-C, HKB	LAKE	60	44
CONTRACT NO. 80D46				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

The design fill height for this box is approximately 4 ft. The precast box culvert sections shall conform to the requirements of ASTM C1577.
 Nonwoven geotextile fabric shall conform to the requirements of Art. 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.
 Precast concrete box culverts and box culvert end sections shall be backfilled with Porous Granular Embankment in the required excavation areas on the sides of the box culvert from the top of the box culvert to the bottom of the box culvert. This area of PGE is included in the Porous Granular Embankment pay item. The 6-inch thick layer of porous granular material required under the precast concrete box culvert, according to Section 540.06 of the standard specifications, shall also apply to the end sections. Cost of this porous granular material will not be paid for separately but shall be included in the unit price of the work for which it is required.
 The details contained herein are for constructing the end sections using cast-in-place (CIP) construction. The Contractor may propose to furnish the end sections using precast construction methods and the end sections may consist of multiple precast concrete segments. The Contractor shall be responsible for determining all details associated with the precast option including any strengthening or stiffening provisions necessary for handling the precast segments. Conceptual details followed by shop drawings and design calculations sealed by an Illinois Licensed Structural Engineer shall be submitted to the Engineer for review and approval. Elements of the precast option shall at a minimum result in the same wingwall geometry and not have a thickness less than that detailed herein. The option to construct the end sections using precast construction methods shall be at no additional charge.
 Plan dimensions and details relative to the existing structure have been taken from field survey are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work; however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

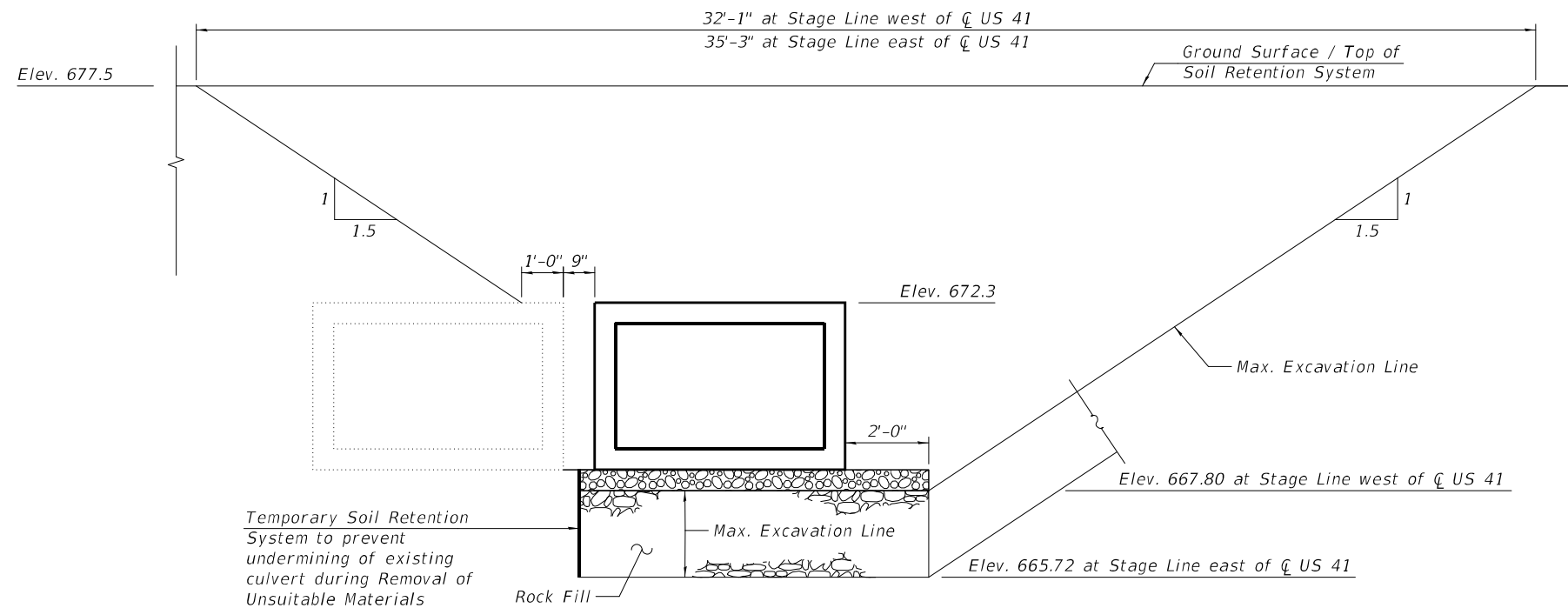
INDEX OF SHEETS

- S-1 GENERAL PLAN AND ELEVATION
- S-2 GENERAL DATA AND DEMOLITION PLAN
- S-3 CAST-IN-PLACE CONCRETE BOX CULVERT APRON END SECTION DETAIL
- S-4 CAST-IN-PLACE CONCRETE BOX CULVERT APRON END SECTION REINFORCEMENT
- S-5 CAST-IN-PLACE CONCRETE BOX CULVERT APRON END SECTION REINFORCEMENT DETAILS
- S-6 BORING LOGS

TOTAL BILL OF MATERIAL

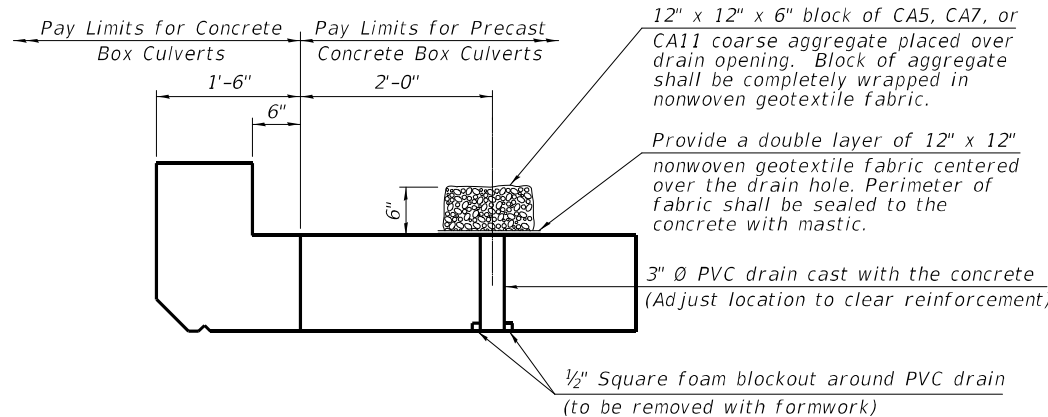
ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu. Yd.	107
Concrete Removal	Cu. Yd.	1.1
Structure Excavation	Cu. Yd.	351
Reinforcement Bars, Epoxy Coated	Pound	880
Temporary Soil Retention System	Sq. Ft.	620
Concrete Box Culverts	Cu. Yd.	6.1
Precast Concrete Box Culverts 5' x 3'	Foot	130
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	42
Rock Fill - Foundation	Ton	57

Note A:
 Once backfill has been placed midheight of the precast box section on each side, the space between shall be filled with Class S1 concrete. The S1 concrete shall be according to Section 1020, except the aggregate shall conform to CM 16 or CM 14 gradation. Cost included with Precast Concrete Box Culvert.



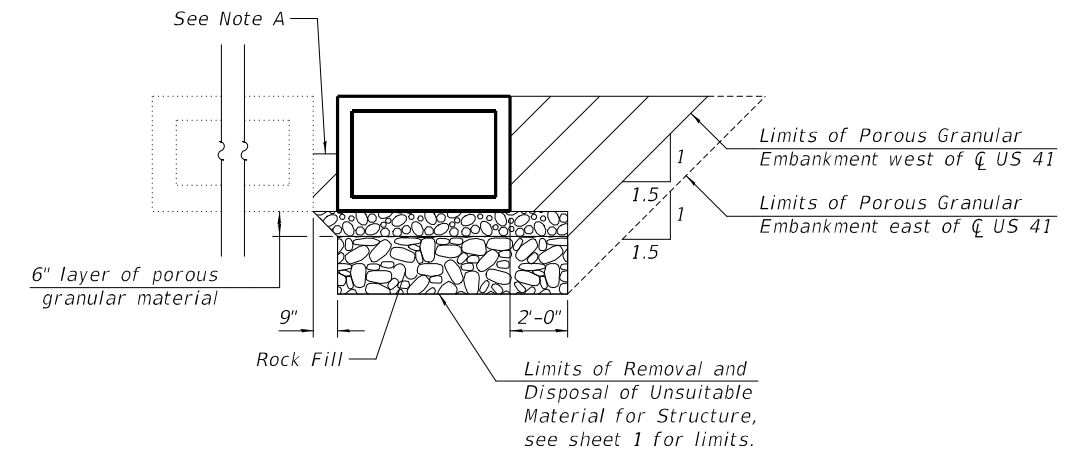
Temporary Soil Retention System to prevent undermining of existing culvert during Removal of Unsuitable Materials

TEMPORARY SOIL RETENTION SYSTEM

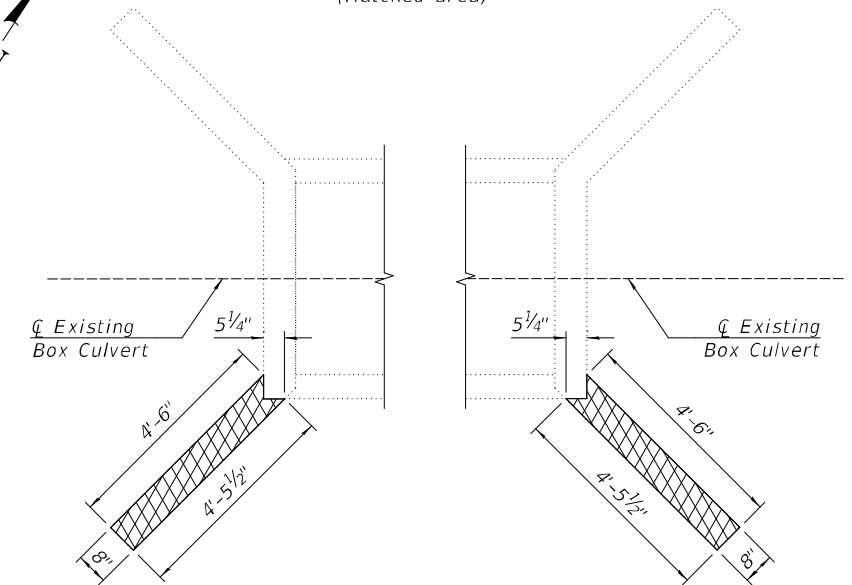
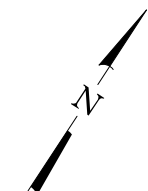


DRAIN DETAIL

(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 the associated work.)

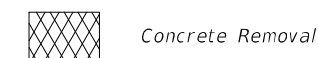


PAY LIMITS FOR POROUS GRANULAR EMBANKMENT
 (Hatched area)



EXISTING CULVERT END SECTION DEMOLITION PLAN
 (Dimensions are approximate)

LEGEND



Notes:
 A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.

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 SHEET: 5-2 OF 5-6 SHEETS
 DATE: 3/20/2026
 DESIGNED: SP
 DRAWN: CMT
 CHECKED: SP
 PLOT DATE: 5/6/2026

TYLin
 200 S. WACKER DR. SUITE 1400
 CHICAGO, IL 60606
 TEL: 312-777-2900

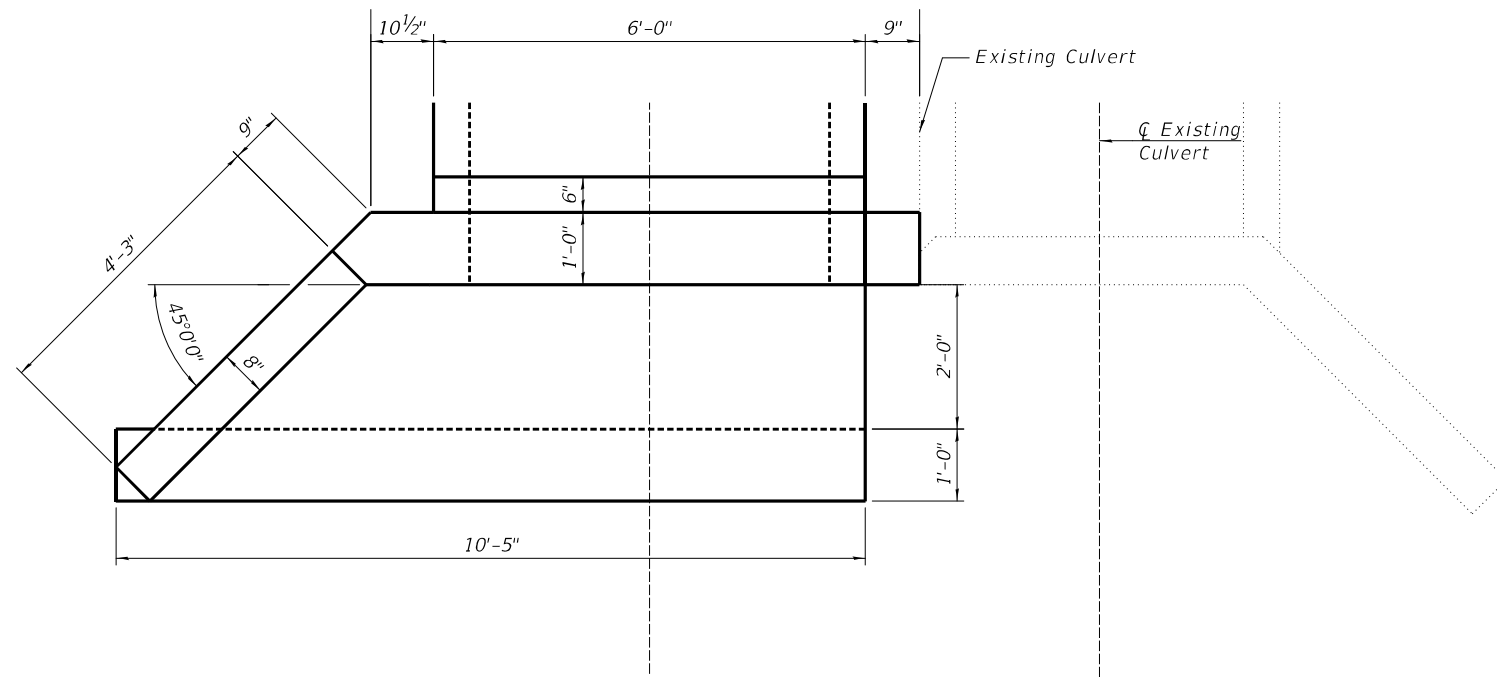
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

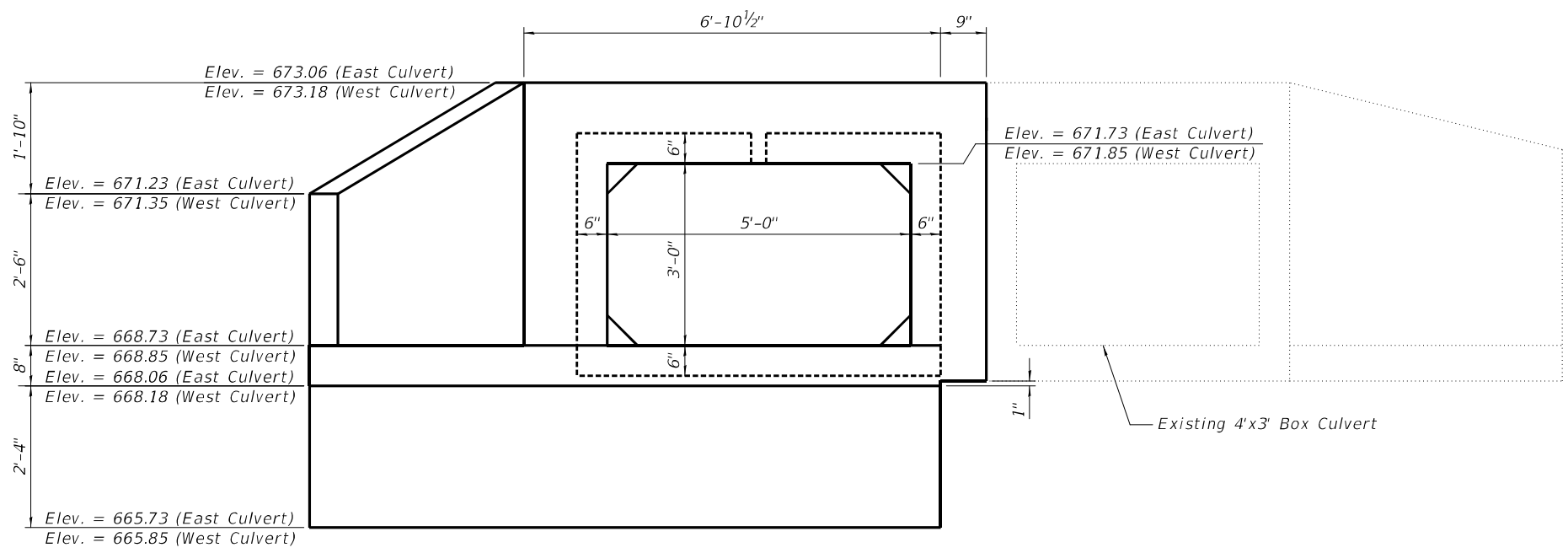
GENERAL DATA AND DEMOLITION PLAN

SHEET 5-2 OF 5-6 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2026-2181-C-HBK	LAKE	60	45
CONTRACT NO. 80D46				
ILLINOIS FED. AID PROJECT				



C.I.P. CONCRETE APRON END SECTION - PLAN
 (East Culvert End Section Shown)
 (West Culvert Section Similar)



C.I.P. CONCRETE APRON END SECTION - ELEVATION
 (East Culvert End Section Shown)
 (West Culvert Section Similar by horizontal mirror)

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 200 S. WACKER DR. SUITE 1400
 CHICAGO, IL 60606
 TEL: 312-777-2900

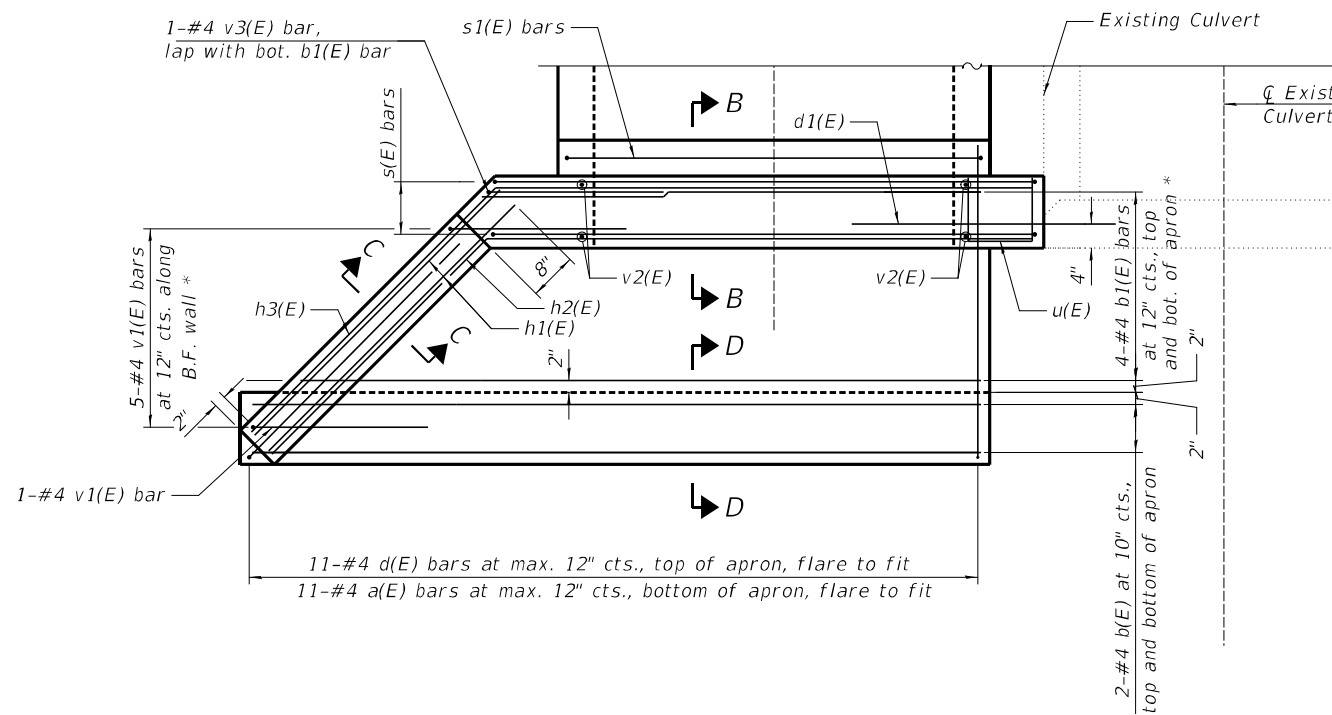
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	DATE - 3/20/2026	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

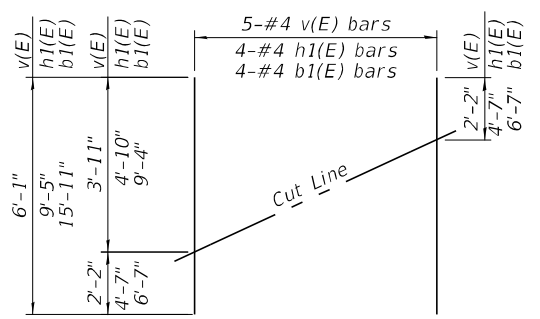
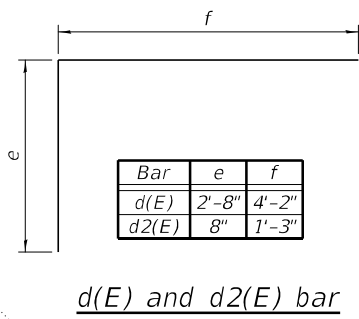
**CAST-IN-PLACE CONCRETE BOX CULVERT
 APRON END SECTION DETAILS**

SHEET S-3 OF S-6 SHEETS

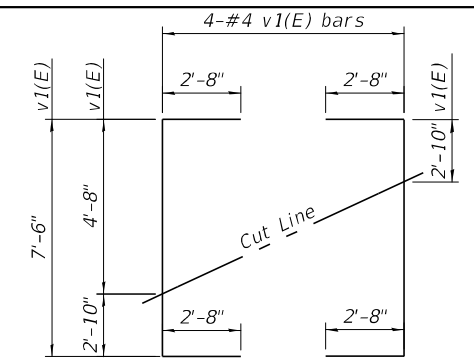
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CONTRACT NO. 80D46				
ILLINOIS FED. AID PROJECT				



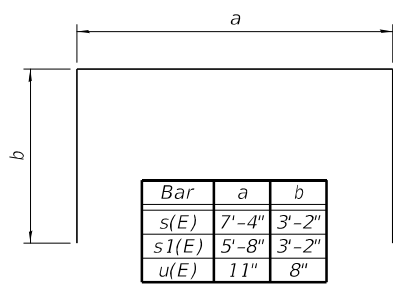
CULVERT END SECTION - REINFORCEMENT PLAN
(East Culvert End Section Shown)
(West Culvert Section Similar)



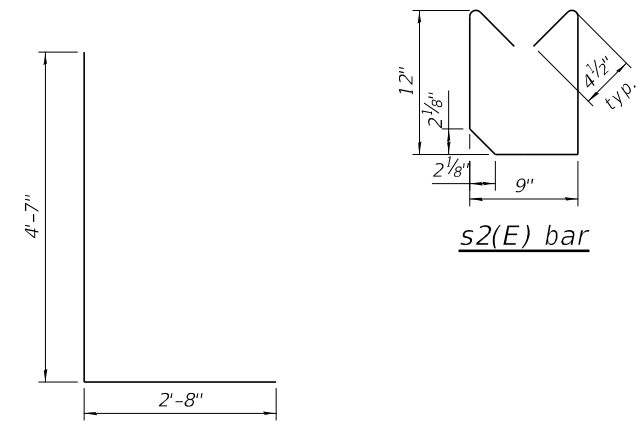
FIELD CUTTING DIAGRAM
Order v(E), h1(E), and b1(E) bars full length. Cut as shown and use remainder of bars in other culvert end section.



FIELD CUTTING DIAGRAM
Order v1(E) bars full length. Cut as shown and use remainder of bars in other wingwall for the other culvert end section.



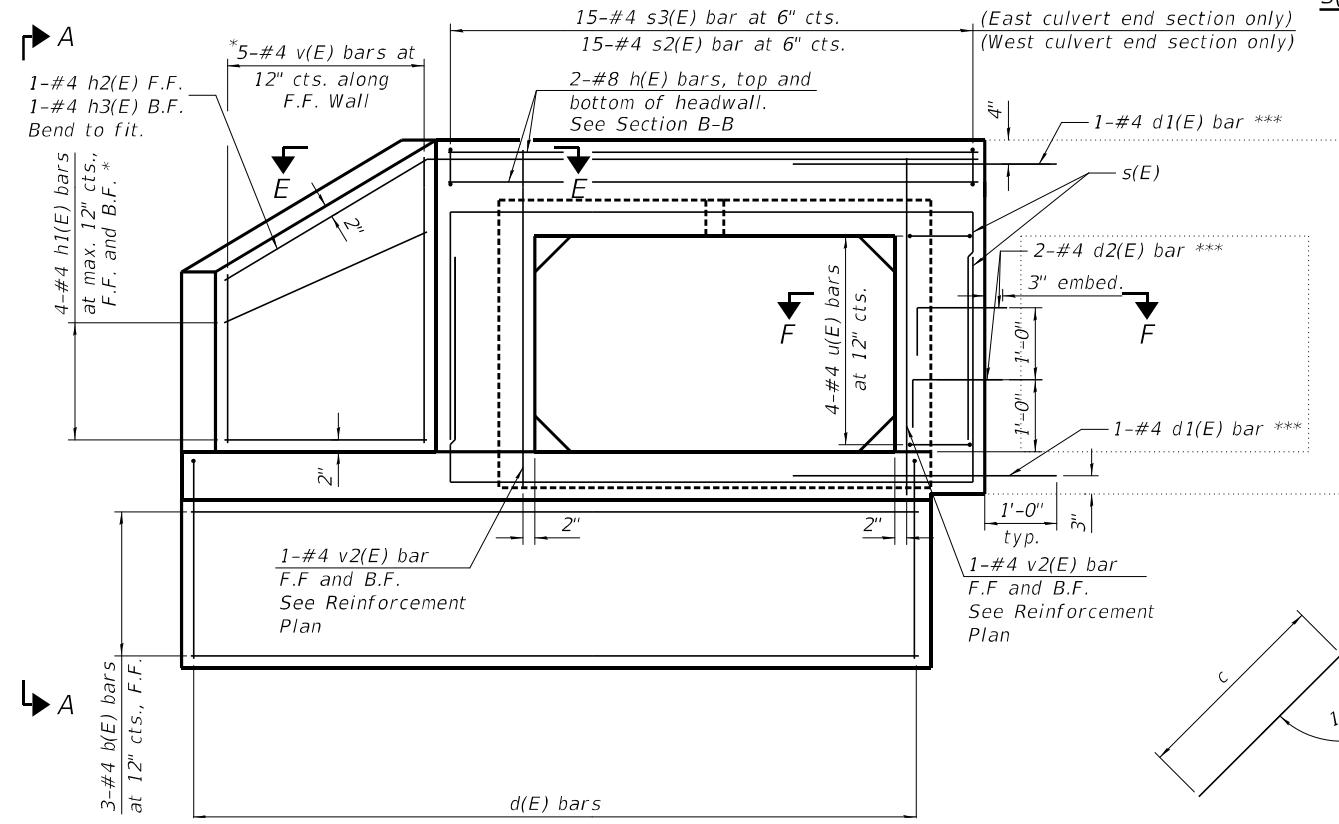
s(E), s1(E), and u(E) BARS



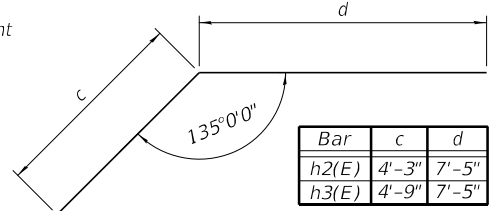
SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	22	#4	4'-2"	—
b(E)	14	#4	10'-1"	—
b1(E)	8	#4	15'-11"	—
d(E)	22	#4	6'-10"	┌
d1(E)	4	#4	3'-8"	┌
d2(E)	4	#4	1'-11"	┌
h(E)	8	#8	7'-4"	—
h1(E)	8	#4	9'-5"	—
h2(E)	2	#4	11'-8"	┌
h3(E)	2	#4	12'-2"	┌
s(E)	8	#4	13'-8"	┌
s1(E)	4	#4	12'-0"	┌
s2(E)	15	#4	3'-5"	⌢
s3(E)	15	#4	3'-6"	⌢
u(E)	8	#4	2'-3"	┌
v(E)	5	#4	6'-1"	—
v1(E)	5	#4	12'-10"	┌
v2(E)	8	#4	4'-8"	—
v3(E)	2	#4	7'-3"	┌
Reinforcement Bars, Epoxy Coated		Pounds	880	
Concrete Box Culverts		Cu. Yd.	6.1	

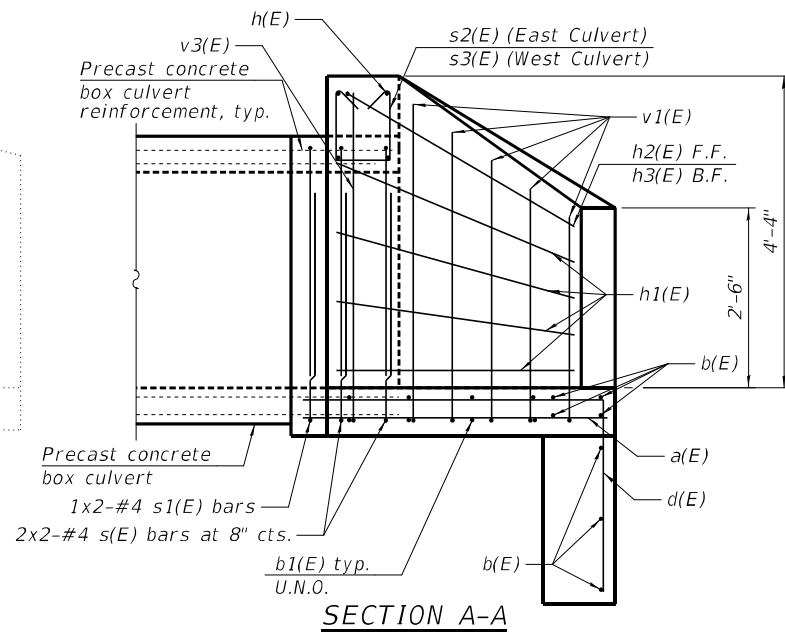
Bars indicated thus 1 x 2-#4 etc. indicates 1 line of bars with 2 lengths per line.



CULVERT END SECTION - REINFORCEMENT ELEVATION
(East Culvert End Section Shown)
(West Culvert Section Similar by horizontal mirror)



h2(E) and h3(E) BARS



SECTION A-A

* Use remainder of bars in other culvert end section. Lap bars as necessary.
** F.F. = Front Face
B.F. = Back Face
*** Drill and Grout reinforcement bars according to Section 584 of the Standard Specifications. Cost included with Reinforcement Bars, Epoxy Coated.

MODEL: Default; FILE: 2026-2181-C.HBK; PROJECT: 2026-2181-C.HBK; SHEET: S-4 OF S-6 SHEETS; DATE: 3/17/2026

TYlin
200 S. WACKER DR. SUITE 1400
CHICAGO, IL 60606
TEL: 312-777-2900

USER NAME = mark.gormely
DESIGNED - SP
DRAWN - CMT
CHECKED - SP
DATE - 3/20/2026

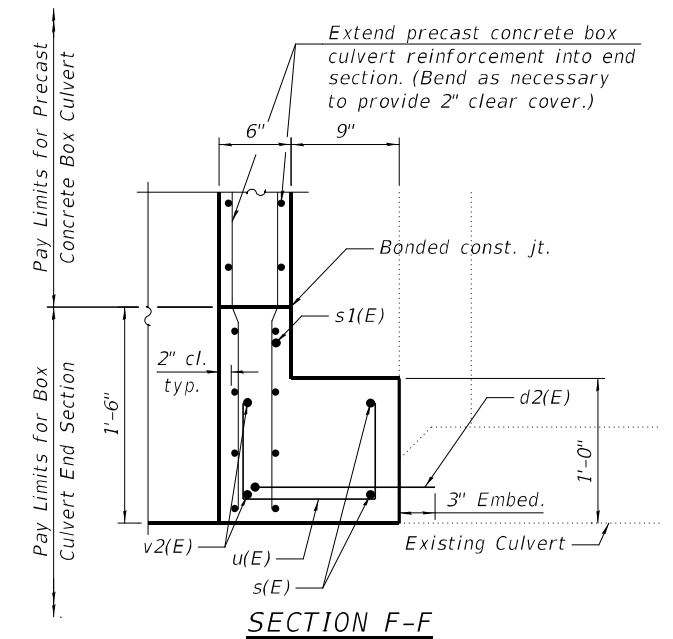
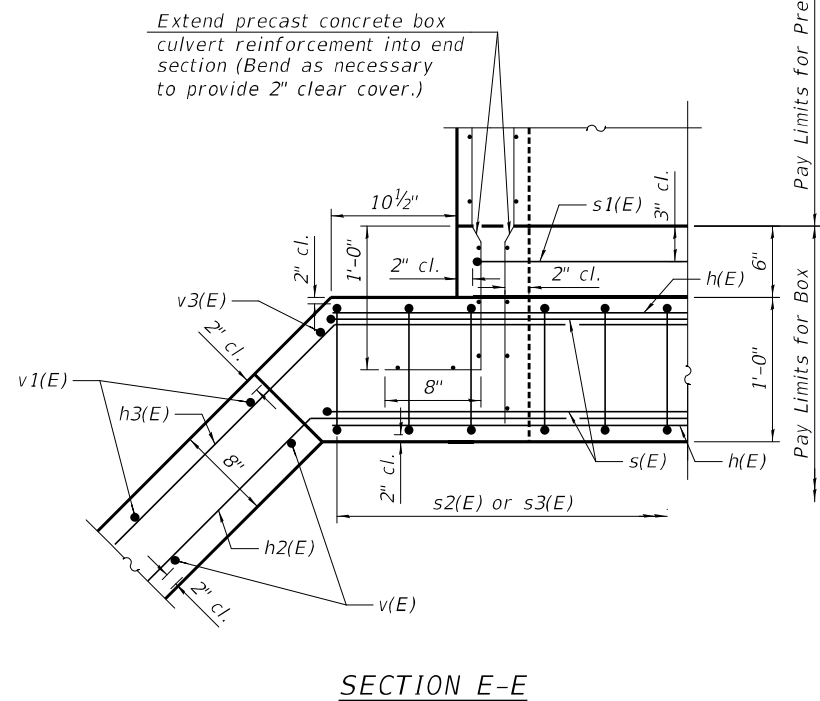
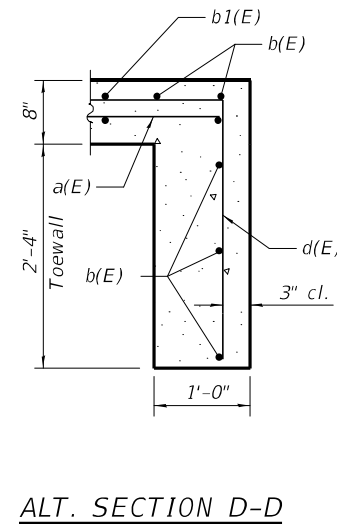
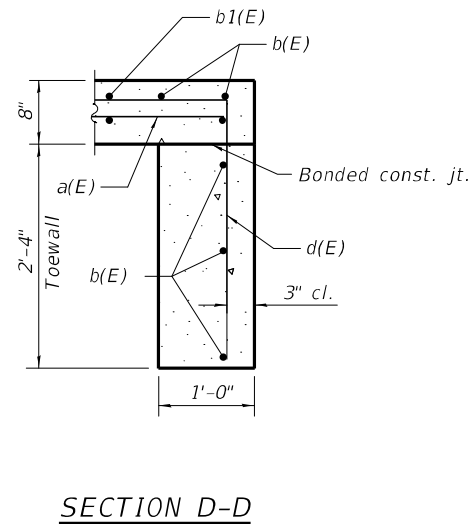
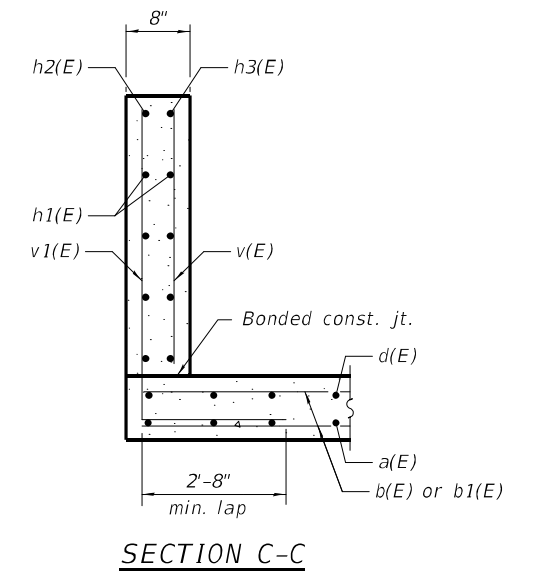
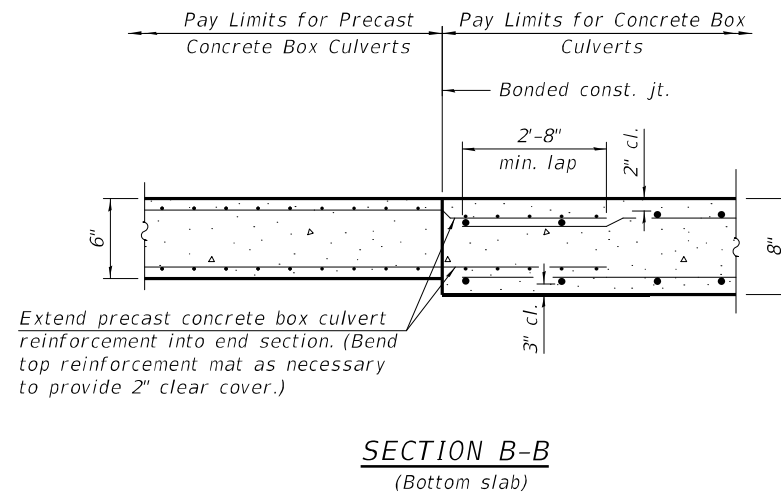
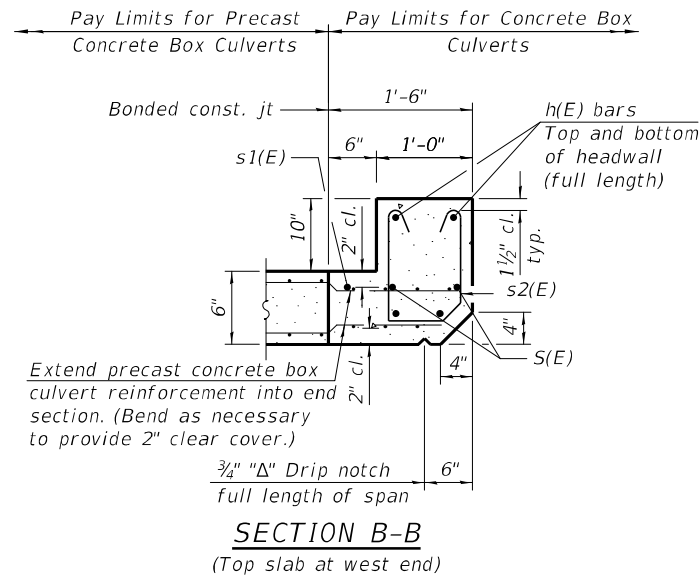
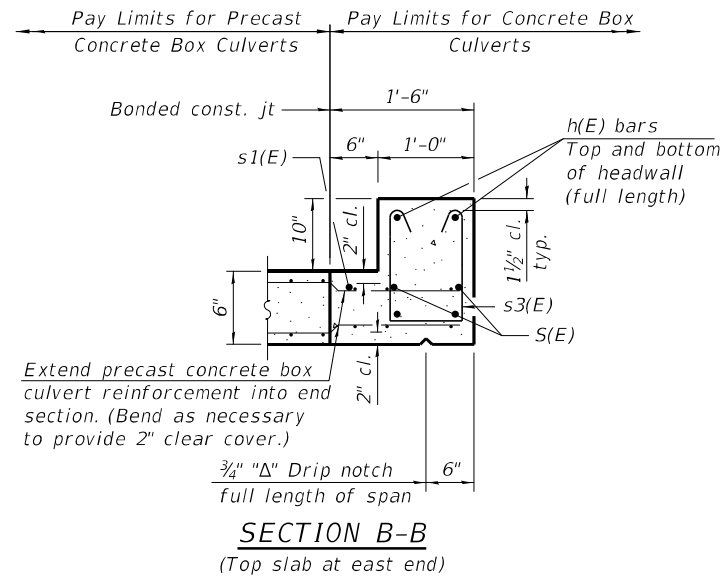
REVISIONS
1. REVISED -
2. REVISED -
3. REVISED -
4. REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CAST-IN-PLACE CONCRETE BOX CULVERT APRON END SECTION
REINFORCEMENT**

SHEET S-4 OF S-6 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2026-2181-C.HBK	LAKE	60	47
CONTRACT NO. 80D46			ILLINOIS FED. AID PROJECT	



TOEWALL CONSTRUCTION SEQUENCE

1. Perform excavation and construct toewall.
2. Backfill accordingly and prepare bedding for box culvert end sections.
3. Construct remainder of box culvert end section.

Note:

If soil conditions permit, the toewall may be poured monolithically with the bottom slab of the end section using Alt. Section D-D subject to approval from the Engineer.

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SOIL BORING LOG

ROUTE US Route 41 DESCRIPTION Culvert Boring LOGGED BY EH

SECTION US Route 41 and IL Route 176 LOCATION US Route 41, SEC. 18, TWP. 44 N, RNG. 12 E

COUNTY Lake DRILLING RIG Geoprobe HAMMER TYPE Auto
 DRILLING METHOD HSA HAMMER EFF (%) 92

STRUCT. NO.					Surface Water Elev.	N/A	ft
Station					Stream Bed Elev.	N/A	ft
BORING NO.	CB-01				Groundwater Elev.:		
Station					First Encounter	None	ft
Offset					Upon Completion	N/A	ft
Ground Surface Elev.	677.04	ft	(ft)	(/6")	(tsf)	(%)	

12 inches of Asphalt							
4 inches of Concrete	676.04						
	675.71	4					
Brown, Black and Gray, Moist		2					
FILL: SILTY CLAY, trace gravel		2					
		4					
		2	1.5				
		4	P				
		1					
		2	0.4				
		1	B				
	668.54						
Stiff to Hard		2					
Brown and Gray, Moist		1	1.3				
SILTY CLAY, trace gravel		2	B				
(CL/ML)							
		3					
		5	4.2				
		9	B				
	663.54						
Very Stiff to Hard		4					
Gray, Moist		8	4.2				
SILTY CLAY, trace sand and		9	B				
gravel (CL/ML)							
		4					
		6	2.5				
		7	B				
		2					
		6	3.3				
		8	B				
	657.04	-20					

End of Boring
 The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

ROUTE US Route 41 DESCRIPTION Culvert Boring LOGGED BY EH

SECTION US Route 41 and IL Route 176 LOCATION US Route 41, SEC. 18, TWP. 44 N, RNG. 12 E

COUNTY Lake DRILLING RIG Geoprobe HAMMER TYPE Auto
 DRILLING METHOD HSA HAMMER EFF (%) 98

STRUCT. NO.					Surface Water Elev.	N/A	ft
Station					Stream Bed Elev.	N/A	ft
BORING NO.	CB-02				Groundwater Elev.:		
Station					First Encounter	None	ft
Offset					Upon Completion	N/A	ft
Ground Surface Elev.	676.72	ft	(ft)	(/6")	(tsf)	(%)	

4 inches of Asphalt	676.39						
5 inches of Concrete	675.97						
6 inches of Aggregate Base	675.47	10					
Course		8	3.0	18			
Brown, Gray and Black, Moist		5	P				
FILL: SILTY CLAY, trace gravel							
	673.22						
Medium Stiff to Very Stiff		2					
Brown and Gray, Moist to Very		2	1.5	19			
Moist		3	P				
SILTY CLAY, trace gravel							
(CL/ML)							
		2					
		2	1.5	28			
		2	P				
		1					
		1	0.5	50			
		2	P				
	665.72						
Stiff to Very Stiff		2					
Brown, Dry to Moist		4	1.3	17			
SILTY CLAY LOAM, trace gravel		4	B				
(ML/CL)							
		3					
		3	2.5	3			
		5	B				
	660.72						
Very Stiff		4					
Gray, Moist		6	3.3	18			
SILTY CLAY, trace gravel		7	B				
(CL/ML)							
		3					
		4	2.1	19			
		5	B				
	656.72	-20					

End of Boring
 The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

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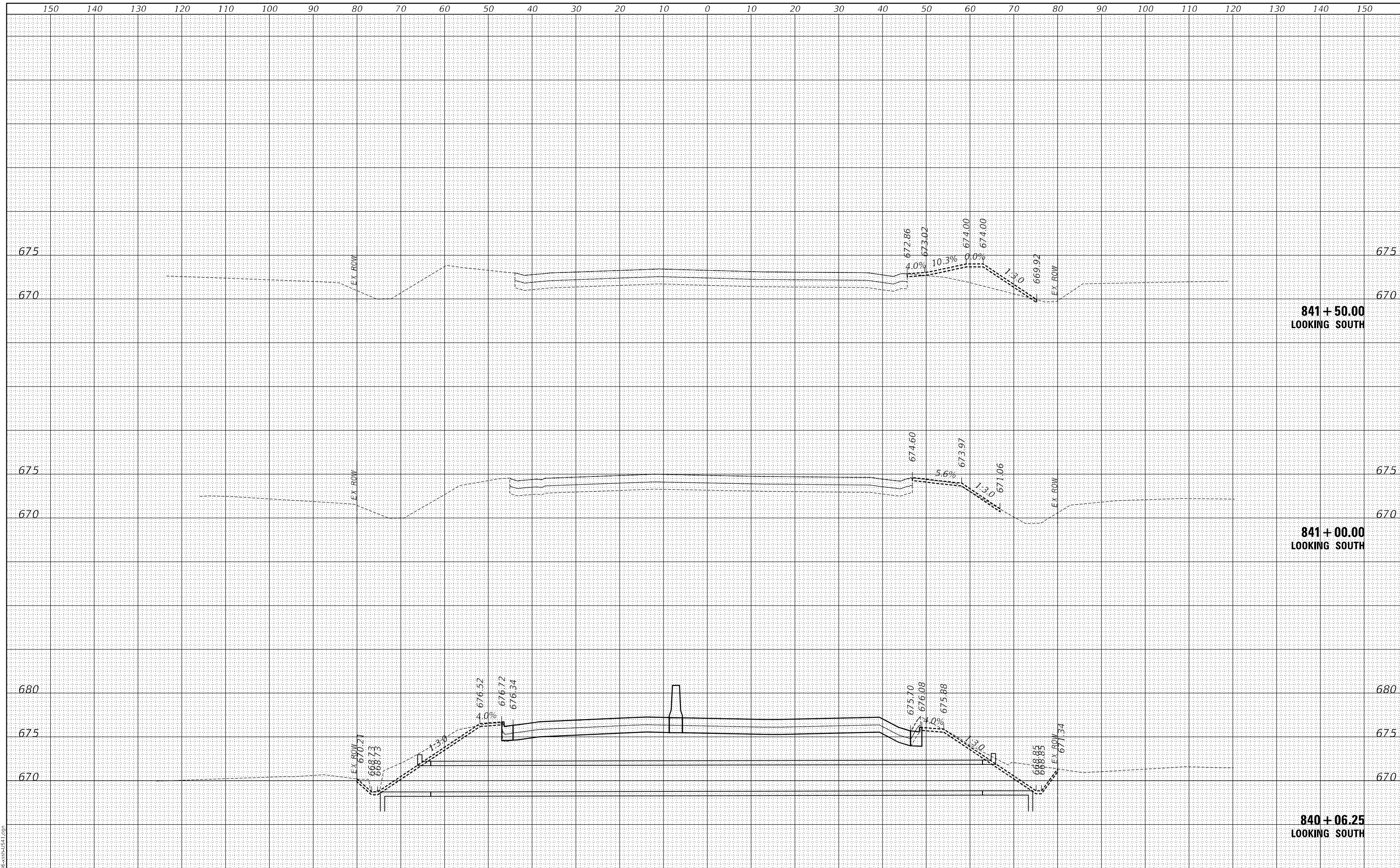
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CAST-IN-PLACE CONCRETE BOX CULVERT APRON END SECTION
 REINFORCEMENT DETAILS
 SHEET 5-6 OF 5-6 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2026-2181-C,HBK	LAKE	60	49
CONTRACT NO. 80D46				
ILLINOIS FED. AID PROJECT				

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

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



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TYLin
200 S. WACKER DR. SUITE 1400
CHICAGO, IL 60606
TEL: 312-777-2900

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

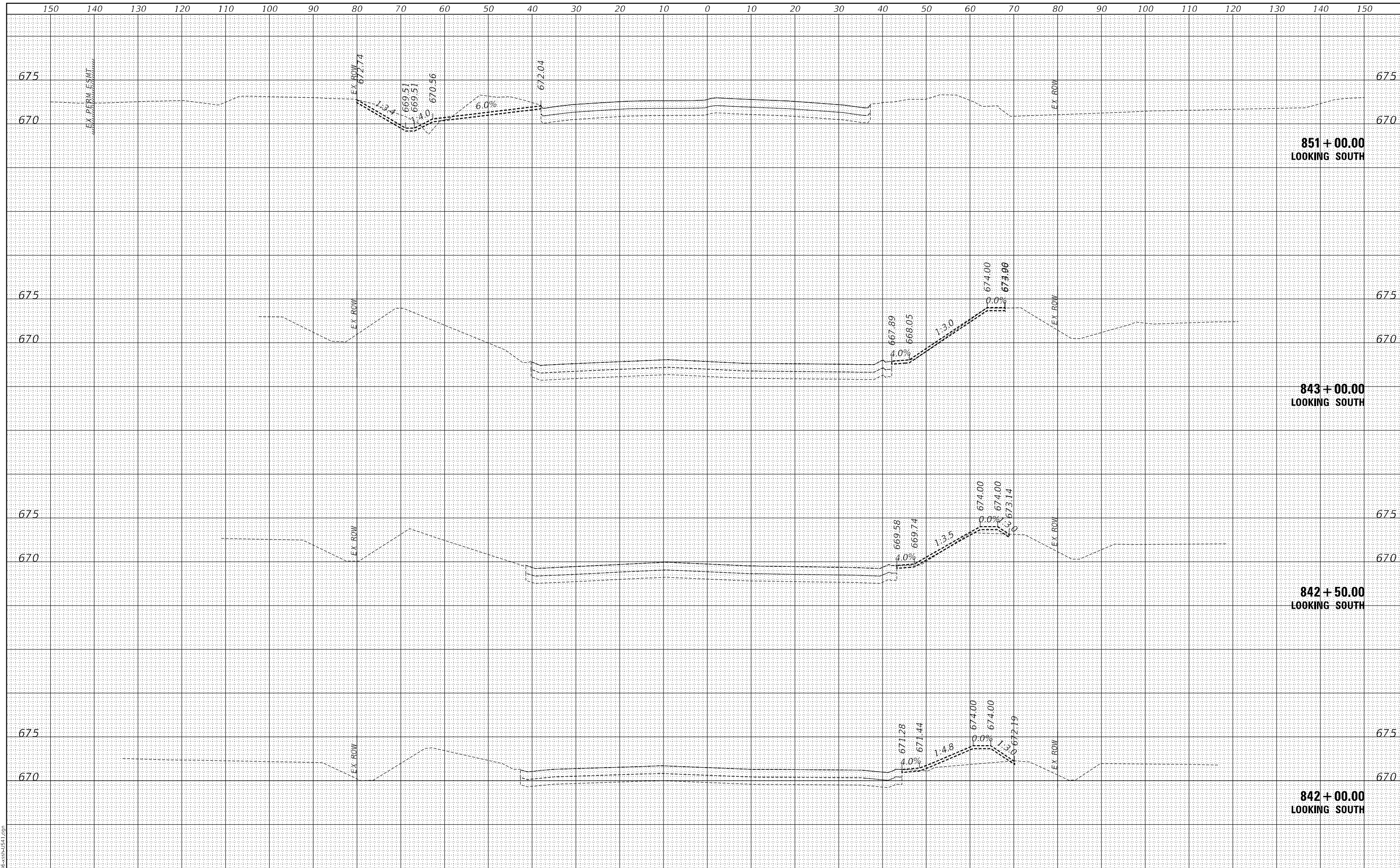
US 41 AT IL 176 INTERCHANGE - ADVANCED DRAINAGE IMPROVEMENTS
CROSS-SECTIONS - US 41

SCALE: 1:10H:1.5V SHEET 1 OF 4 SHEETS STA. 840+06.25 TO STA. 841+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2026-2181-C, H&K	LAKE	60	50
CONTRACT NO. 80D46				
ILLINOIS FED. AID PROJECT				

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

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



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TYLin
200 S. WACKER DR. SUITE 1400
CHICAGO, IL 60606
TEL: 312-777-2900

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US 41 AT IL 176 INTERCHANGE - ADVANCED DRAINAGE IMPROVEMENTS
CROSS-SECTIONS - US 41**

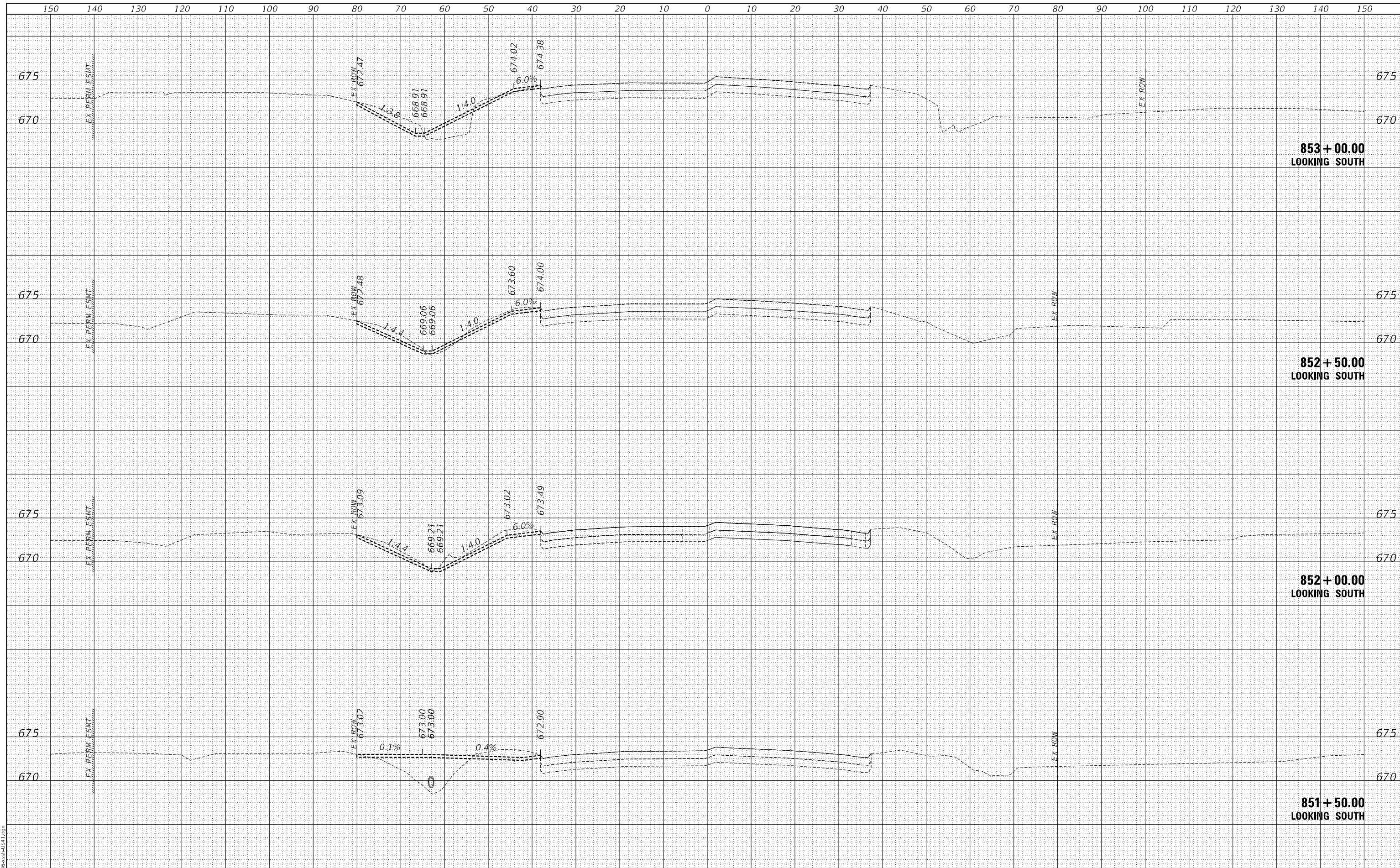
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2026-2181-C.HBK	LAKE	60	51
CONTRACT NO. 80D46				

ILLINOIS FED. AID PROJECT

FINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	BY
AREAS CHECKED	TEMPLATE	
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ORIGINAL SURVEY NO.	SURVEYED	DATE
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TYLin
200 S. WACKER DR. SUITE 1400
CHICAGO, IL 60606
TEL: 312-777-2900

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

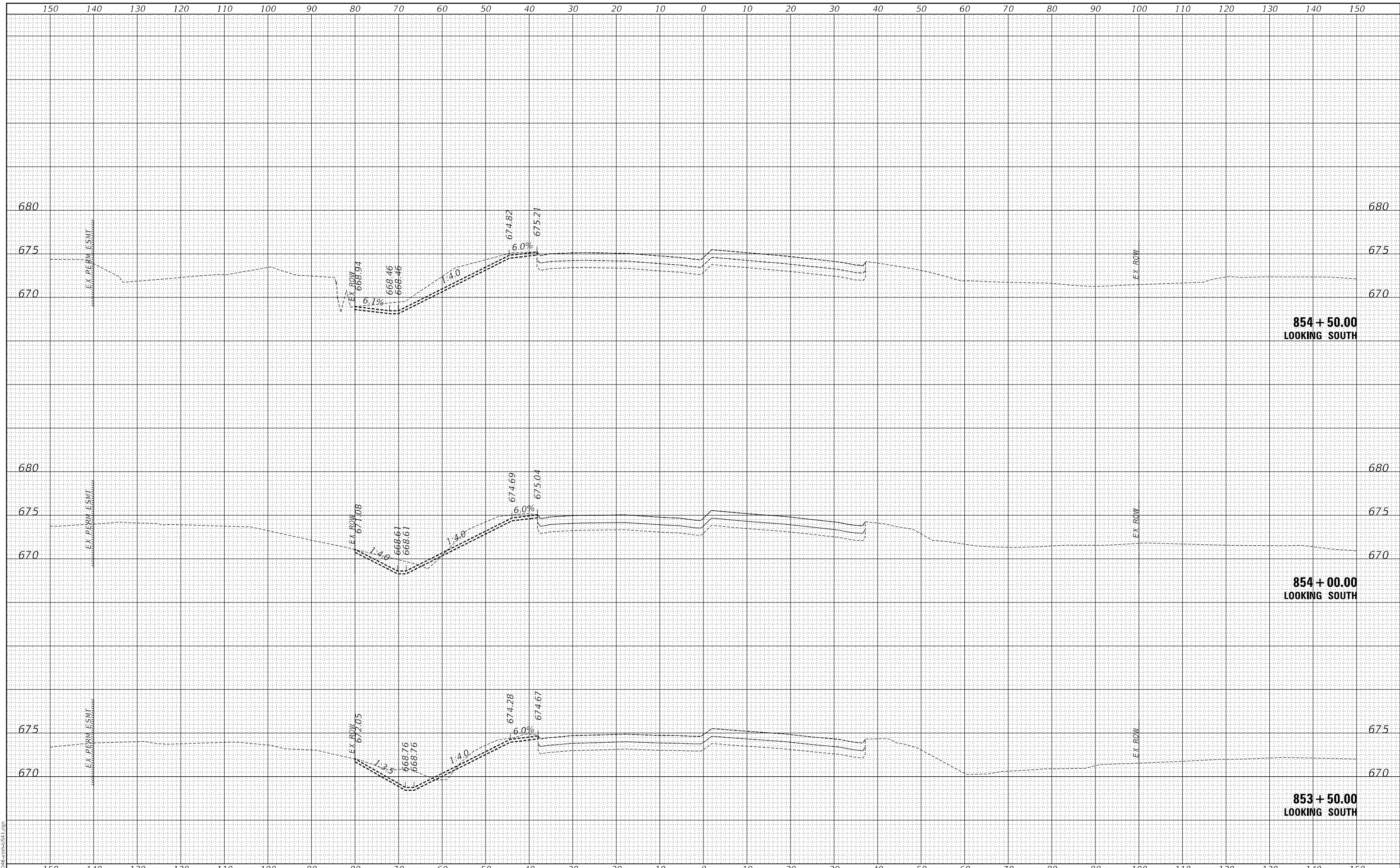
**US 41 AT IL 176 INTERCHANGE - ADVANCED DRAINAGE IMPROVEMENTS
CROSS-SECTIONS - US 41**

F.A.P. RTE. 346	SECTION 2026-2181-C.HBK	COUNTY LAKE	TOTAL SHEETS 60	SHEET NO. 52
CONTRACT NO. 80D46			ILLINOIS FED. AID PROJECT	

SCALE: 1:10H:1.5V SHEET 3 OF 4 SHEETS STA. 851+50.00 TO STA. 853+00.00

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

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



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TYLin
200 S. WACKER DR. SUITE 1400
CHICAGO, IL 60606
TEL: 312-777-2900

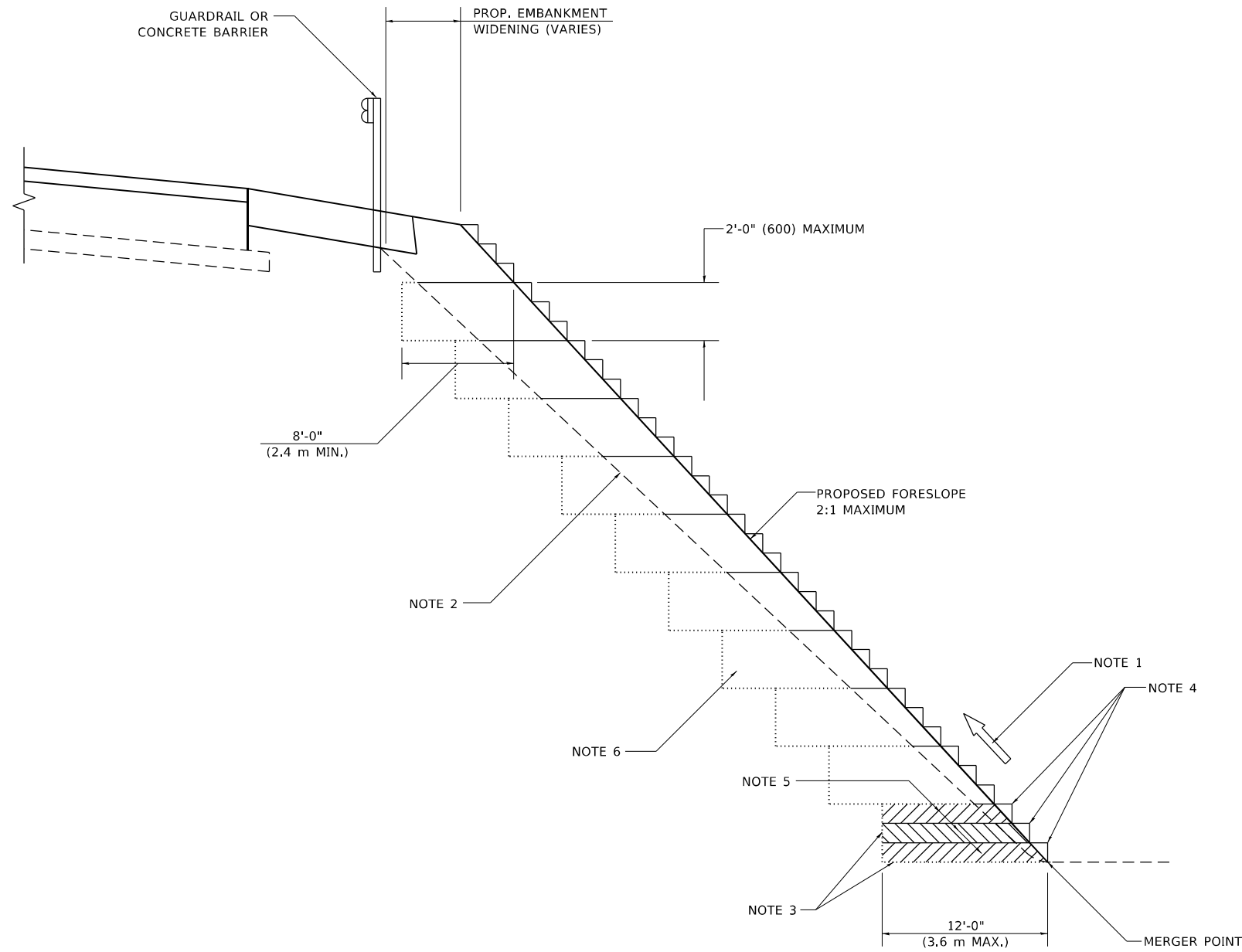
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PLOT DATE = 3/17/2026	DATE - 3/20/2026	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US 41 AT IL 176 INTERCHANGE - ADVANCED DRAINAGE IMPROVEMENTS
CROSS-SECTIONS - US 41**

SCALE: 1:10H:1.5V SHEET 4 OF 4 SHEETS STA. 853+50.00 TO STA. 854+50.00

F.A.P. RTE. 346	SECTION 2026-2181-C, H&K	COUNTY LAKE	TOTAL SHEETS 60	SHEET NO. 53
			CONTRACT NO. 80D46	
ILLINOIS		FED. AID PROJECT		



**TYPICAL BENCHING DETAIL
FOR EMBANKMENT**

GENERAL NOTES

1. CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
2. EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
3. BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
4. TRIM TO FINAL SLOPE.
5. EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.

BASIS OF PAYMENT

1. EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

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

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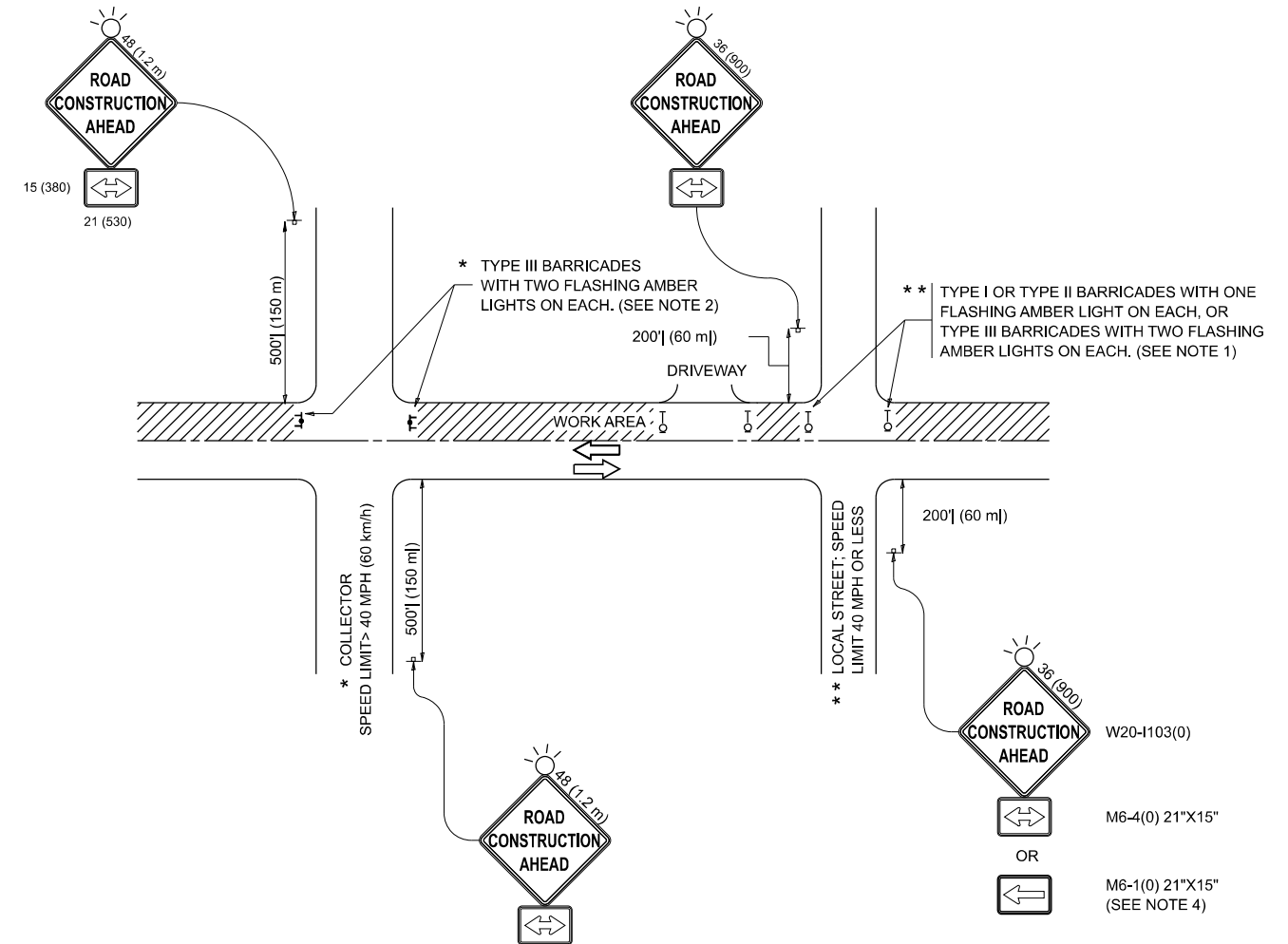
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PLOT DATE = 11/18/2022	DATE - 06-16-04	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BENCHING DETAIL
FOR EMBANKMENT WIDENING**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2026-2181-C,HBK	LAKE	60	55
BD-51			CONTRACT NO. 80D46	
ILLINOIS FED. AID PROJECT				



NOTES:

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

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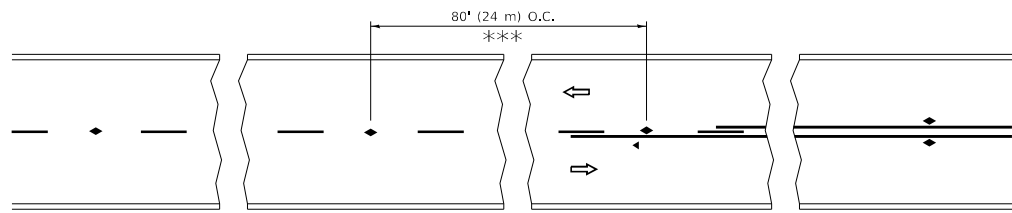
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PLOT DATE = 10/2/2025	DATE - 06-89	REVISED - A. SCHUETZE 09-15-06
		REVISED - D. SENDERAK 05-03-25

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

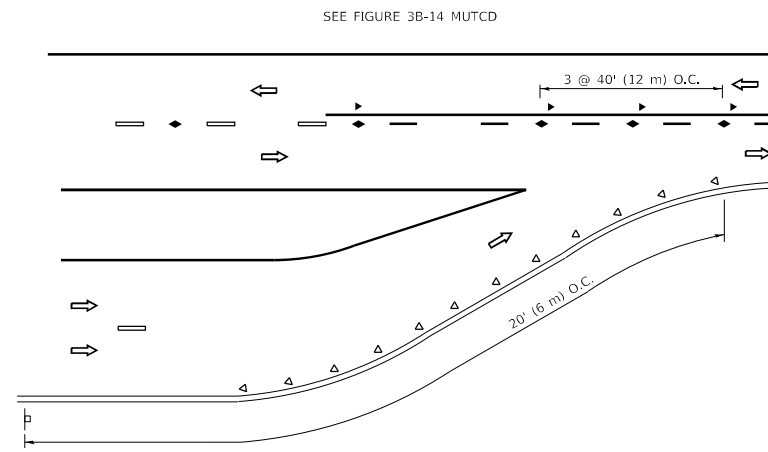
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F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2026-2181-C,HBK	LAKE	60	56
TC-10			CONTRACT NO. 80D46	
ILLINOIS FED. AID PROJECT				

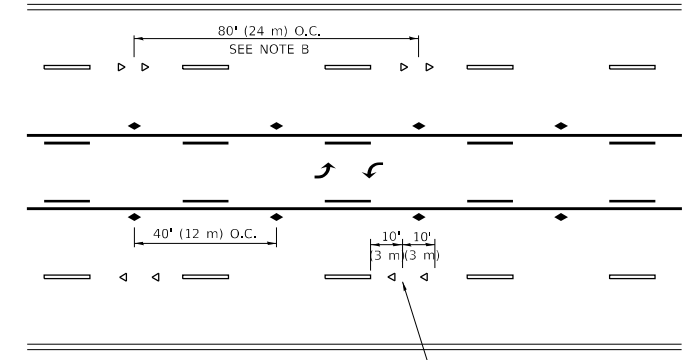


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

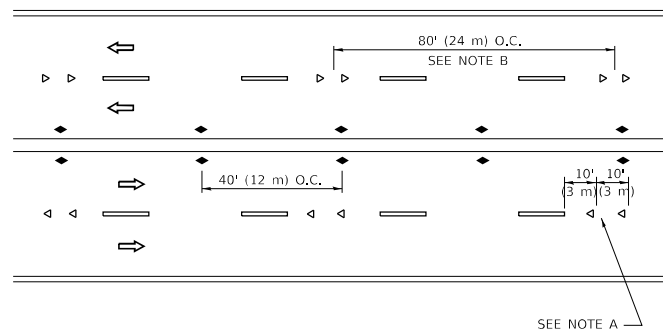
TWO-LANE/TWO-WAY



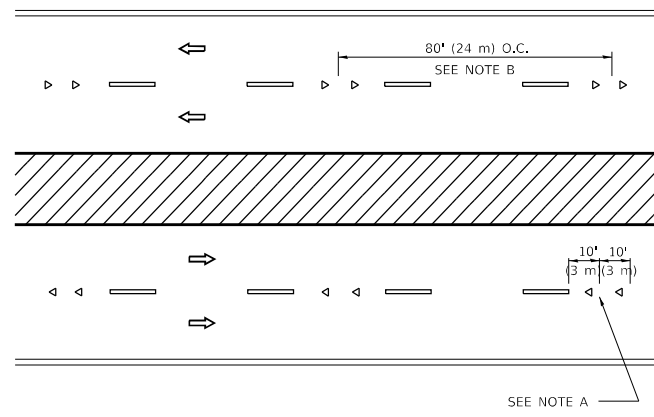
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

SYMBOLS

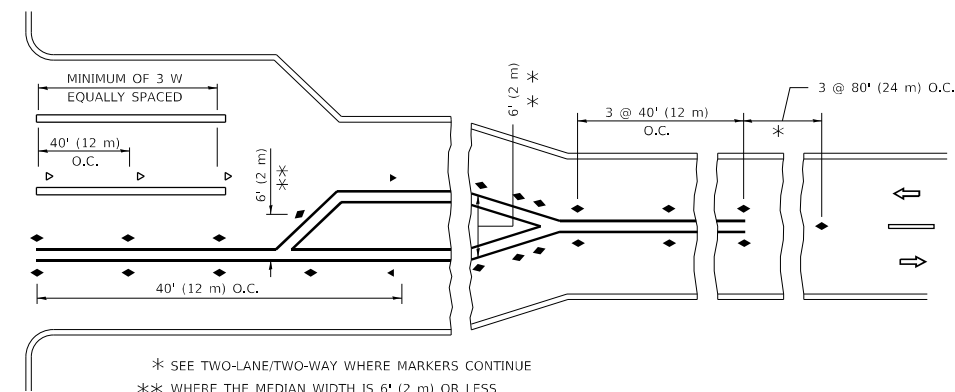
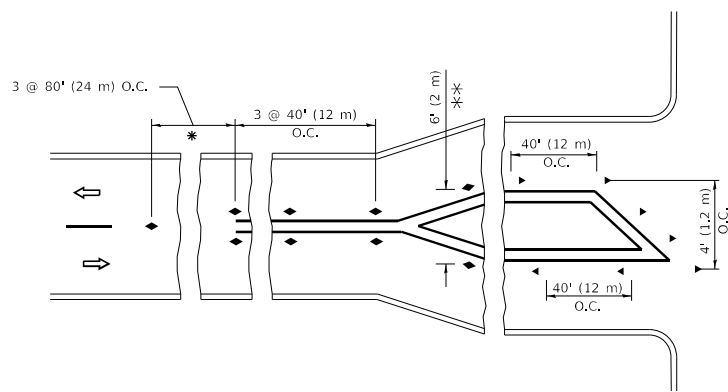
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

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

DESIGN NOTES

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



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

TURN LANES

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

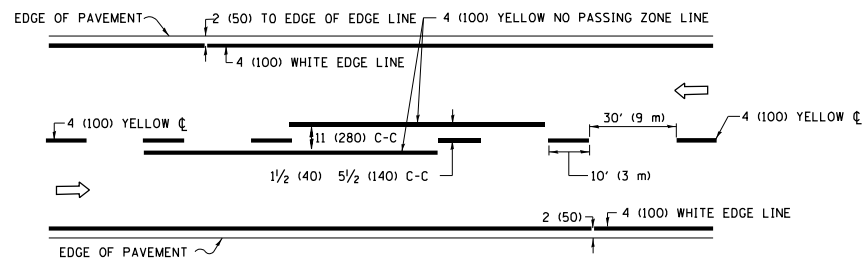
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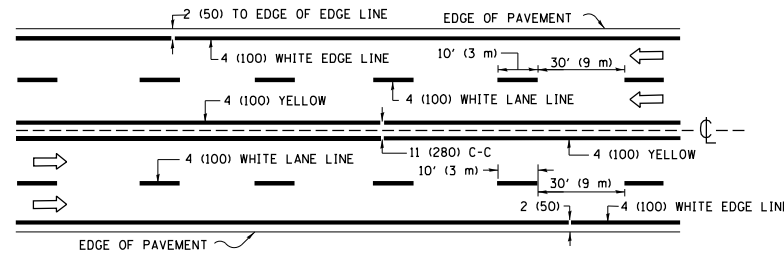
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL APPLICATIONS			
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

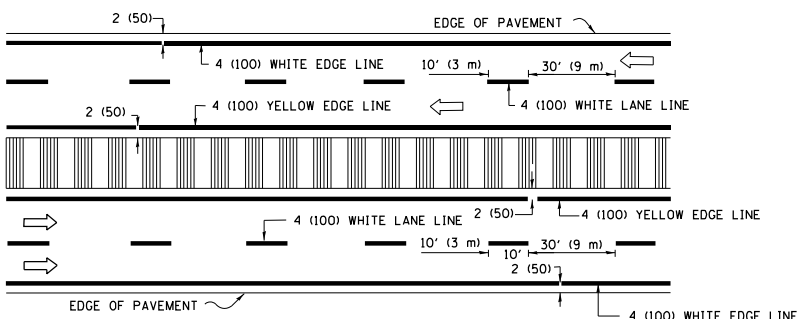
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2026-2181-C,HBK	LAKE	60	57
TC-11			CONTRACT NO. 80D46	
ILLINOIS		FED. AID PROJECT		



2-LANE ROADWAY

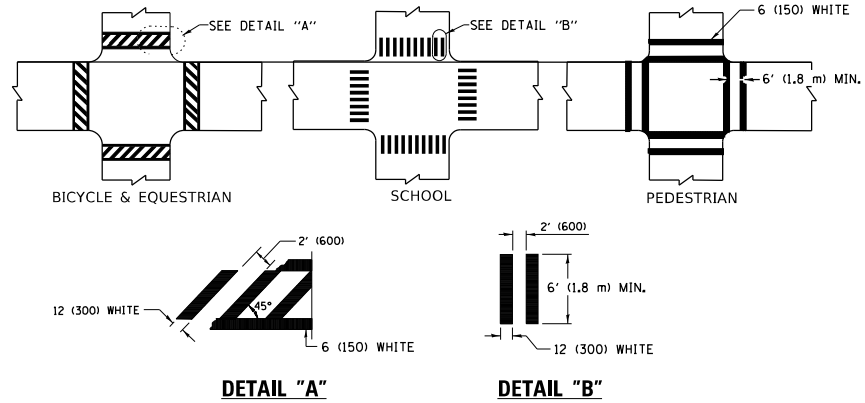


MULTI-LANE UNDIVIDED



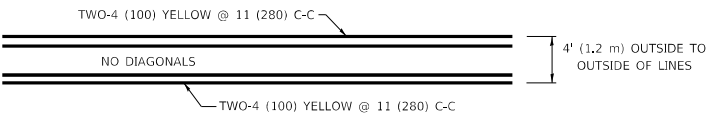
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

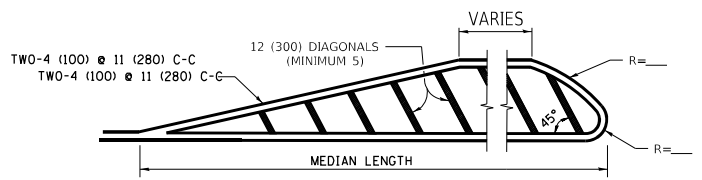


TYPICAL CROSSWALK MARKING

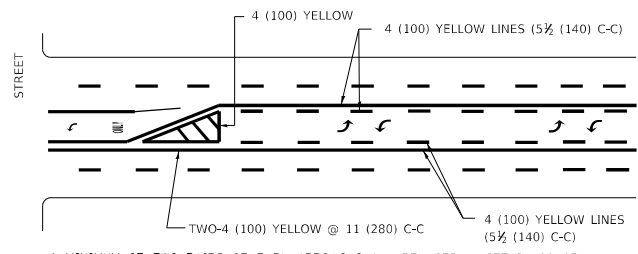
* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



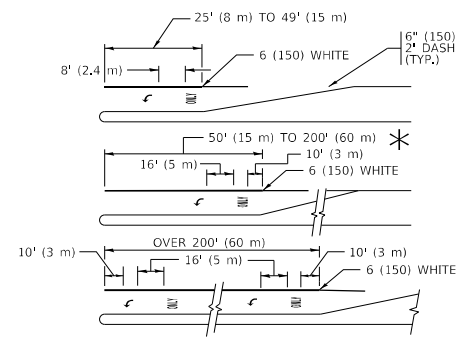
4' (1.2 m) WIDE MEDIANS ONLY



MEDIANS OVER 4' (1.2 m) WIDE



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

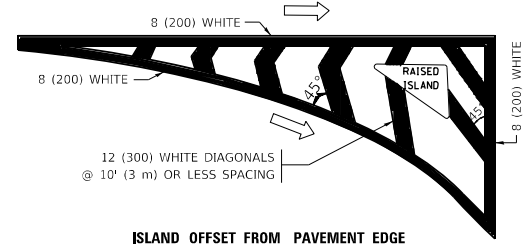


TYPICAL LEFT (OR RIGHT) TURN LANE

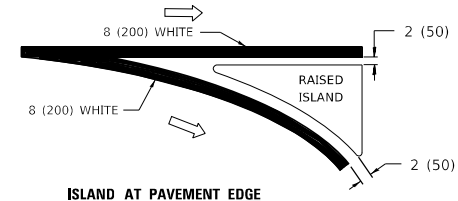
TYPICAL TURN LANE MARKING

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

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

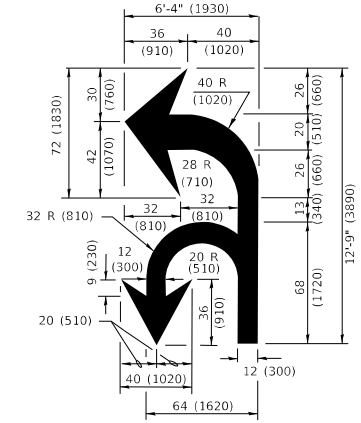


ISLAND OFFSET FROM PAVEMENT EDGE

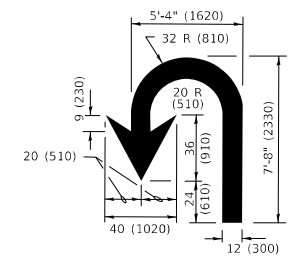


ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION

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

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

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES "RR" IS 8' (1.8 m) LETTERS: 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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

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

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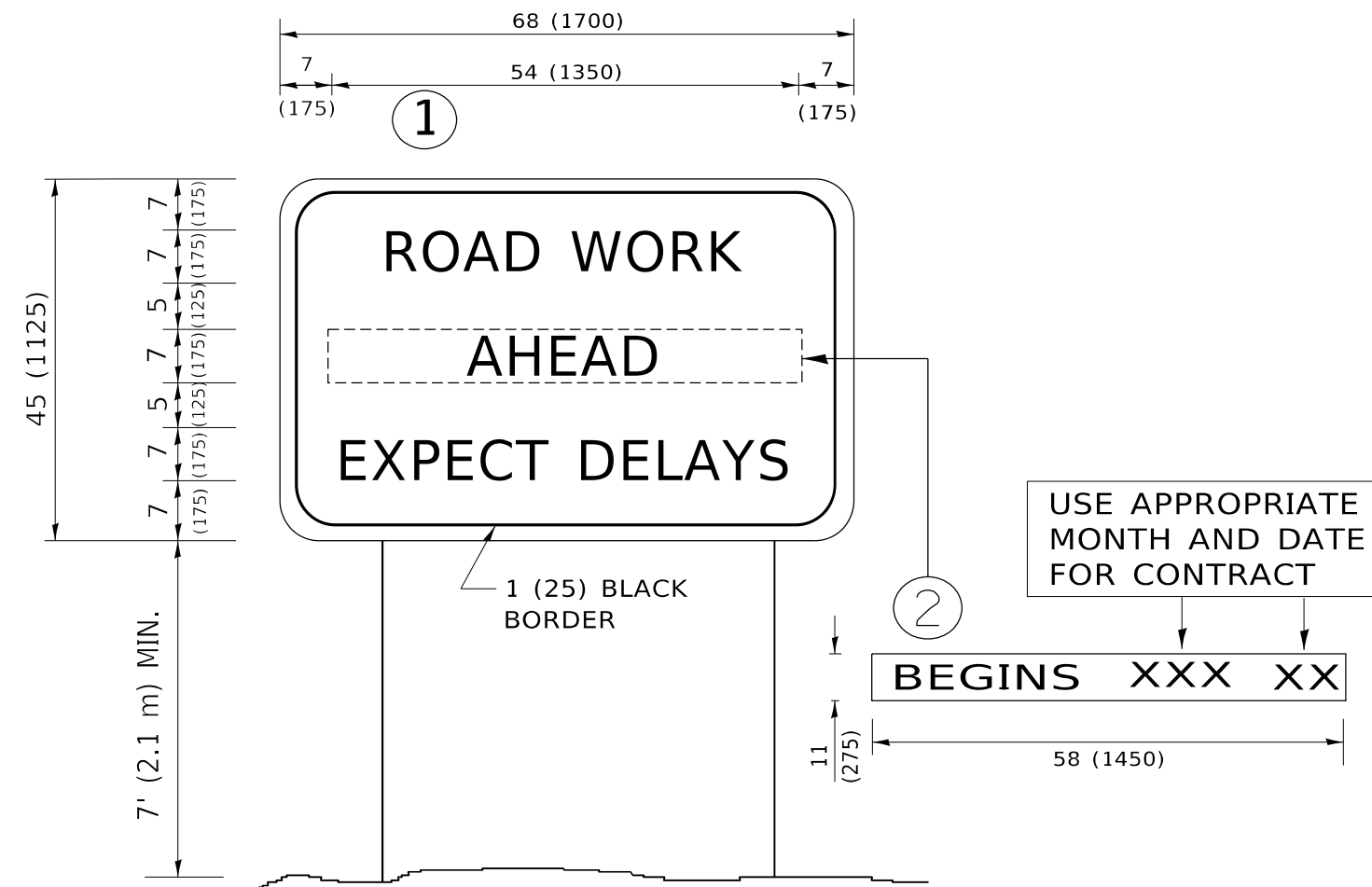
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PLOT DATE = 3/4/2019	DATE - 03-19-90	REVISED - C. JUCIUS 12-21-15
		REVISED - C. JUCIUS 04-12-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
TYPICAL PAVEMENT MARKINGS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2026-2181-C,HBK	LAKE	60	58
TC-13		CONTRACT NO. 80D46		
ILLINOIS FED. AID PROJECT				



NOTES:

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

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

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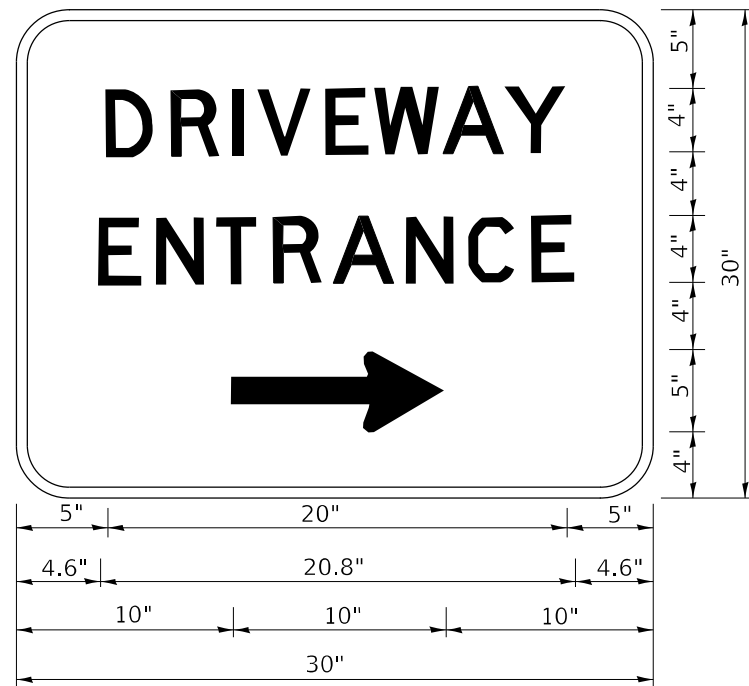
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PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2026-2181-C,HBK	LAKE	60	59
TC-22			CONTRACT NO. 80D46	
ILLINOIS FED. AID PROJECT				



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

NOTES:

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

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	DRAWN -	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/6/2021	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DRIVEWAY ENTRANCE SIGNING

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2026-2181-C,HBK	LAKE	60	60
TC-26			CONTRACT NO. 80D46	
		ILLINOIS	FED. AID PROJECT	