04-24-2026 LETTING ITEM 072

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(104C-BR1)BR-1	BUREAU	62	1
	ILLINOIS	CONTRACT NO. 66M03		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2

PROPOSED HIGHWAY PLANS

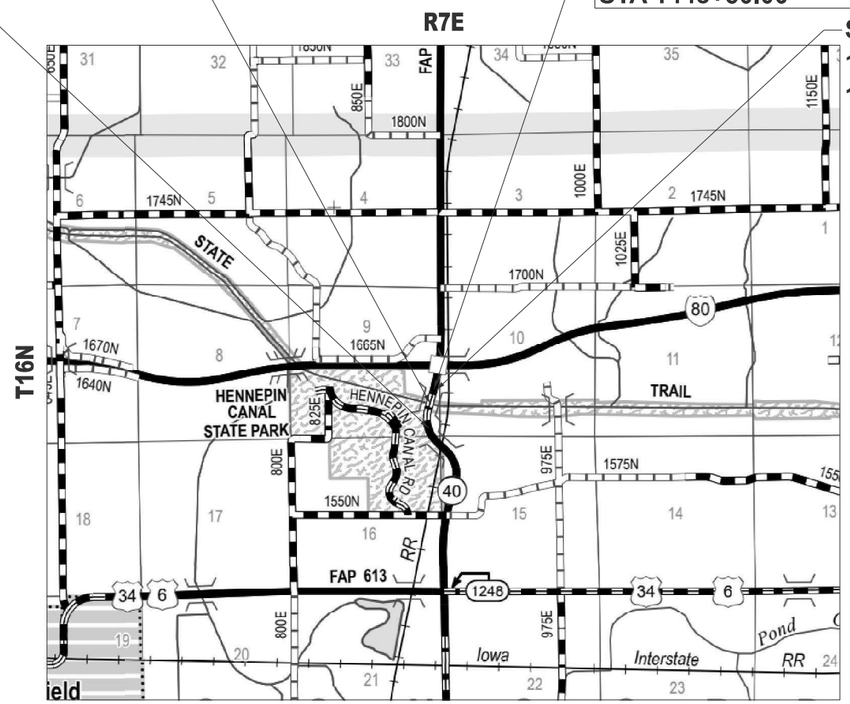
FAP ROUTE 646 (IL 40)
SECTION (104C-BR1)BR-1
PROJECT BR-UAZG(176)
DECK REPLACEMENT
BUREAU COUNTY
C-93-033-25

DECK REPLACEMENT
(OVER HENNEPIN CANAL)
STA. 1447+17.56
S.N. 006-0090

END IMPROVEMENT (IL 40)
STA 1454+50.00

BEGIN IMPROVEMENT (IL 40)
STA 1443+50.00

STATION EQUATION
1444+28.03 BK =
1444+31.66 AH



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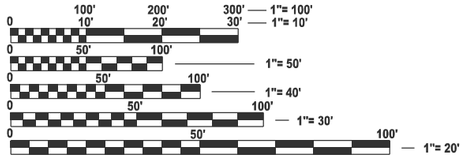
LOCATION MAP
NOT TO SCALE



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

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

DISTRICT 3 NO. 815-434-6131
PROJECT ENGINEER: DAVID ALEXANDER, PE
SQUAD LEADER: DARCY MITCHELL
TOWNSHIP(S): CONCORD TOWNSHIP

CONTRACT NO. 66M03

GROSS LENGTH = 1096.37 FT. = 0.208 MILE
NET LENGTH = 1096.37 FT. = 0.208 MILE

D-93-010-25

LOCATION OF SECTION INDICATED THUS: -

TRAFFIC DATA - IL 40
MINOR ARTERIAL; 2023 ADT = 2400
P.V. = 83.8% S.U. = 5.8% M.U. = 10.4%

LICENSED STRUCTURAL ENGINEER
ALEX C BENZ
081-007814
STATE OF ILLINOIS

Signed: Alex C. Benz
Date: 2/5/2026
License Expires: 11/30/2026
The seal shown above is valid for Sheets 25-43.

LICENSED PROFESSIONAL ENGINEER
ROBERT BRZEZON
062.066618
STATE OF ILLINOIS

Signed: Robert Brzezon
Date: 2/5/2026
License Expires: 11/30/2027
The seal shown above is valid for Sheets 1-24 and 44-62.

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Civil Engineering Design

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED: February 9, 20 26
Trisha Thompson
REGIONAL ENGINEER

March 20 26
ENGINEER OF DESIGN AND ENVIRONMENT

March 20 26
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

REV. 2/25/26

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9-10	TYPICAL SECTIONS
11-13	SCHEDULE OF QUANTITIES
14	ALIGNMENT, TIES, AND BENCHMARKS
15	REMOVAL PLAN
16-17	PLAN AND PROFILE
18-20	DETOUR PLAN
21	PAVEMENT MARKING AND SIGNING PLAN
22	EROSION AND SEDIMENT CONTROL PLAN
23	DRAINAGE PLAN
24	LANDSCAPING PLAN
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44-45	SUPER ELEVATION DETAIL
46-49	DISTRICT 3 DETAILS
50-62	CROSS SECTIONS

HIGHWAY STANDARDS

000001-09	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-11	PAVEMENT JOINTS
420401-13	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
420701-03	PAVEMENT WELDED WIRE REINFORCEMENT
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
515001-04	NAME PLATES FOR BRIDGES
601001-05	PIPE UNDERDRAINS
630001-13	STEEL PLATE BEAM GUARDRAIL
630201-07	PCC-HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 GUARDRAIL TERMINALS
631031-18	TRAFFIC BARRIER TERMINAL TYPE 6
667101-02	PERMANENT SURVEY MARKERS
701001-02	OFF-RD OPERATIONS 2L 2W MORE THAN 15FT
701006-05	OFF-RD OPERATIONS 2L 2W 15' TO 24" FROM PAVEMENT EDGE
701901-11	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS MARKERS AND DELINEATORS
725001-01	OBJECT AND TERMINAL MARKERS
729001-01	APPLICATIONS OF TYPE A AND B METAL POSTS
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

GENERAL NOTES

1. EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.
2. THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.
3. THE FINISHED EARTHWORK SHALL HAVE A VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES (100 MILLIMETERS) IN AREAS TO BE SEEDED OR SODDED. THE VEGETATION SUSTAINING SOIL REQUIRED WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF FURNISHED EXCAVATION.
4. ON EXISTING PAVEMENT WHICH MAY BE SUPERELEVATED, THE NEW HMA PAVEMENT SHALL BE BUILT WITH THE SAME SUPERELEVATION UNLESS NEW SUPERELEVATION RATES ARE GIVEN ON THE PLANS.
5. ADDITIONAL CONSTRUCTION PROJECTS MAY BE UNDER CONTRACT WITHIN OR NEAR THE LIMITS OF THIS PROJECT WHEN IT IS IN FORCE. THE CONTRACTOR FOR THIS PROJECT SHALL COOPERATE WITH THE CONTRACTORS ON THE OTHER PROJECTS ACCORDING TO ARTICLE 105.08 OF THE STANDARD SPECIFICATIONS. CONTRACTS ANTICIPATED TO BE IN THE VICINITY OF THIS CONTRACT ARE:
   IDOT CONTRACT 66K71 (IL 40 OVER I-80).
6. ALL ELEVATIONS REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.
7. THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

GRANULAR MATERIALS	2.05	TONS / CU YD
HMA RESURFACING	112	LBS / SQ YD / IN

8. MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:
   AMEREN ILLINOIS
   AT&T
   CORN BELT ENERGY
   FRONTIER COMMUNICATIONS
   MTCO
   MEDIACOM
9. NON-MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:
   ILLINOIS DEPARTMENT OF TRANSPORTATION

COMMITMENT

1. THE CLOSURE AND DETOUR FOR DECK REPLACEMENT WORK WILL BE PERFORMED DURING THE SUMMER BREAK FOR BUREAU VALLEY CUSD #340 BETWEEN MAY 26 AND AUGUST 10.
2. NO TRAIL CLOSURES ALLOWED DURING CONSTRUCTION UNLESS DETOURS ARE PROVIDED.
3. THE TRAIL MUST BE OPEN AND PASSABLE DURING THE ANNUAL DATE FOR THE 'HENNEPIN 100' RUN ON THE FIRST FULL WEEKEND OF OCTOBER AND THE PRECEDING FRIDAY.

HMA MIXTURE REQUIREMENT TABLE

LOCATIONS:	IL 40 HMA RESURFACING	IL 40 HMA SHOULDERS	
MIXTURE USE(S):	HMA SURFACE COURSE	HMA SURFACE COURSE	HMA BINDER LIFT(S)
BINDER GRADE (PG):	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4.0% @ N70	4.0% @ N70	4.0% @ N50
MIXTURE COMPOSITION: (MIXTURE GRADATION)	IL-9.5	IL-9.5	IL-19.0
FRICTION AGGREGATE:	MIXTURE D	MIXTURE D	N/A
MIXTURE WEIGHT:	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN
QUALITY MANAGEMENT PROGRAM:	QC/QA	QC/QA	QC/QA
SUBLOT SIZE:	N/A	N/A	N/A
DENSITY TEST METHOD:	CORES/NUCLEAR	CORES/NUCLEAR	CORES/NUCLEAR
MATERIAL TRANSFER DEVICE (REQUIRED):	NO	NO	NO

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE
AS BUILT INFORMATION

SUPERVISING CONSTRUCTION FIELD ENGINEER

RESIDENT ENGINEER / TECHNICIAN

START & END DATES OF CONSTRUCTION:

INSPECTORS:

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	DRAWN - ZJW	REVISED -	
	CHECKED - RBB	REVISED -	
PLOT DATE = 1/14/2026	DATE - 1/14/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 40 OVER HENNEPIN CANAL
INDEX, STANDARDS, GENERAL NOTES, COMMITMENTS, & HMA TABLE
SCALE: N/A | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(104C-BR1)BR-1	BUREAU	62	2
		CONTRACT NO. 66M03		
		ILLINOIS	FED. AID PROJECT	

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE 80% FEDERAL 20% STATE BRIDGE 0013 S.N. 006-0090
	20200100	EARTH EXCAVATION	CU YD	240	240
*	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	15	15
	25000210	SEEDING, CLASS 2A	ACRE	0.50	0.50
	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	45	45
	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	45	45
	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	45	45
	25100630	EROSION CONTROL BLANKET	SQ YD	1803	1803
	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	112	112
	28000400	PERIMETER EROSION BARRIER	FOOT	2158	2158
	28100105	STONE RIPRAP, CLASS A3	SQ YD	61	61
	28100107	STONE RIPRAP, CLASS A4	SQ YD	63	63
	28200200	FILTER FABRIC	SQ YD	61	61
	35102000	AGGREGATE BASE COURSE, TYPE B 8"	SQ YD	80	80
	40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	43	43

* DENOTES SPECIALTY ITEM

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USER NAME = skierpiec	DESIGNED - JDB	REVISED -
	DRAWN - JNK	REVISED -
	CHECKED - RBB	REVISED -
PLOT DATE = 1/12/2026	DATE - 1/14/2026	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 40 OVER HENNEPIN CANAL
SUMMARY OF QUANTITIES

SCALE: N/A | SHEET 1 OF 6 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(104C-BR1)BR-1	BUREAU	62	3
		CONTRACT NO. 66M03		
	ILLINOIS	FED. AID PROJECT		

REV. 2/23/26

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE 80% FEDERAL 20% STATE BRIDGE 0013 S.N. 006-0090
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	3530	3530
40600370	LONGITUDINAL JOINT SEALANT	FOOT	1670	1670
40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	409	409
42000060	WELDED WIRE REINFORCEMENT	SQ YD	87	87
42000080	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SQ YD	107	107
44000100	PAVEMENT REMOVAL	SQ YD	331	331
44000300	CURB REMOVAL	FOOT	46	46
44004250	PAVED SHOULDER REMOVAL	SQ YD	446	446
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	643	643
48301000	PROTECTIVE COAT	SQ YD	107	107
50102400	CONCRETE REMOVAL	CU YD	9.5	9.5
50104720	REMOVAL OF EXISTING CONCRETE DECK	EACH	1	1
50105220	PIPE CULVERT REMOVAL	FOOT	93	93
50157300	PROTECTIVE SHIELD	SQ YD	168	168

* DENOTES SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE 80% FEDERAL 20% STATE BRIDGE 0013 S.N. 006-0090
50200100	STRUCTURE EXCAVATION	CU YD	35	35
50300225	CONCRETE STRUCTURES	CU YD	20.4	20.4
50300255	CONCRETE SUPERSTRUCTURE	CU YD	236.3	236.3
50300260	BRIDGE DECK GROOVING	SQ YD	773	773
50300300	PROTECTIVE COAT	SQ YD	1014	1014
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	94.8	94.8
50500505	STUD SHEAR CONNECTORS	EACH	1350	1350
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	94490	94490
51500100	NAME PLATES	EACH	1	1
53212754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	22	22
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	63	63
59000200	EPOXY CRACK INJECTION	FOOT	50	50
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	41	41
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	10	10

* DENOTES SPECIALTY ITEM

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE 80% FEDERAL 20% STATE BRIDGE 0013 S.N. 006-0090
	60146304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	117	117
	60500060	REMOVING INLETS	EACH	3	3
*	63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	675	675
*	63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4
*	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4
	63200310	GUARDRAIL REMOVAL	FOOT	1006	1006
	63500105	DELINEATORS	EACH	4	4
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6
	67100100	MOBILIZATION	L SUM	1	1
*	72000100	SIGN PANEL - TYPE 1	SQ FT	74	74
*	72400200	REMOVE SIGN PANEL ASSEMBLY - TYPE B	EACH	4	4
*	72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	17	17
*	72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4
*	72900100	METAL POST - TYPE A	FOOT	57	57

* DENOTES SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE 80% FEDERAL 20% STATE BRIDGE 0013 S.N. 006-0090
73000100	WOOD SIGN SUPPORT	FOOT	94	94
73700100	REMOVE GROUND MOUNTED SIGN SUPPORT	EACH	4	4
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	8776	8776
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	12	12
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	18	18
* 78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	12	12
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	14	14
Z0001495	BRIDGE APPROACH SHOULDER REMOVAL	SQ YD	19	19
Z0004552	APPROACH SLAB REMOVAL	SQ YD	116	116
Z0007101	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1	1
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1	1
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1
X4062952	HOT-MIX ASPHALT STABILIZATION 6" AT STEEL PLATE BEAM GUARD RAIL	SQ YD	455	455
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	2320	2320

* DENOTES SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE 80% FEDERAL 20% STATE BRIDGE 0013 S.N. 006-0090
X5230174	DRAINAGE SCUPPERS, DS-11	EACH	1	1
X5427602	REMOVE EXISTING FLARED END SECTION	EACH	3	3
X6350204	LINEAR DELINEATOR PANELS, 4 INCH	EACH	13	13
X6350206	LINEAR DELINEATOR PANELS, 6 INCH	EACH	6	6
X6640108	FENCE REMOVAL AND REINSTALLATION	FOOT	146	146
X7200061	TEMPORARY INFORMATION SIGNING	SQ FT	42	42
X7200203	DETOUR SIGNING	L SUM	1	1
X4024202	LIMESTONE SCREENING SURFACE, 2"	SQ YD	80	80
X5080530	BAR TERMINATORS	EACH	116	116

* DENOTES SPECIALTY ITEM

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	DRAWN - JNK	REVISED -
	CHECKED - RBB	REVISED -
PLOT DATE = 1/13/2026	DATE - 1/14/2026	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 40 OVER HENNEPIN CANAL
SUMMARY OF QUANTITIES

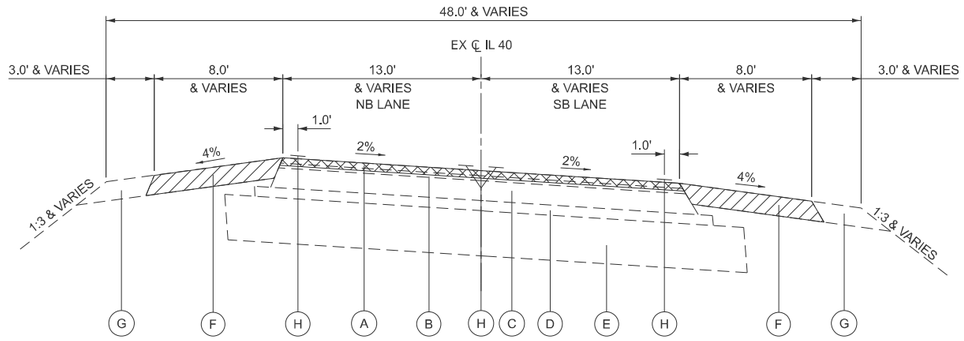
SCALE: N/A | SHEET 6 OF 6 SHEETS | STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(104C-BR1)BR-1	BUREAU	62	8

CONTRACT NO. 66M03

ILLINOIS | FED. AID PROJECT

REV. 3/11/26 REV. 2/23/26



EXISTING ROADWAY TYPICAL SECTION

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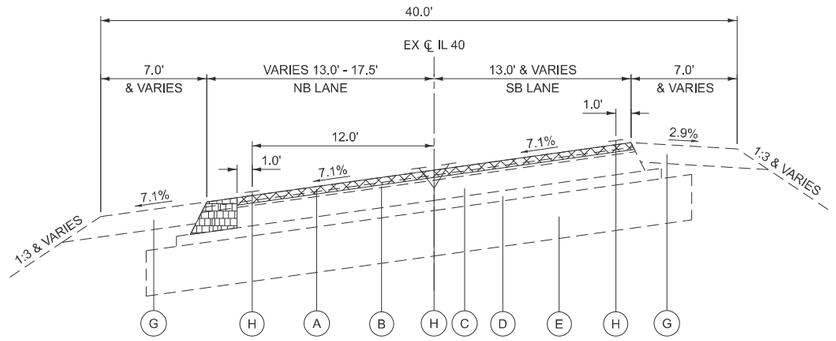
LOOKING SOUTH



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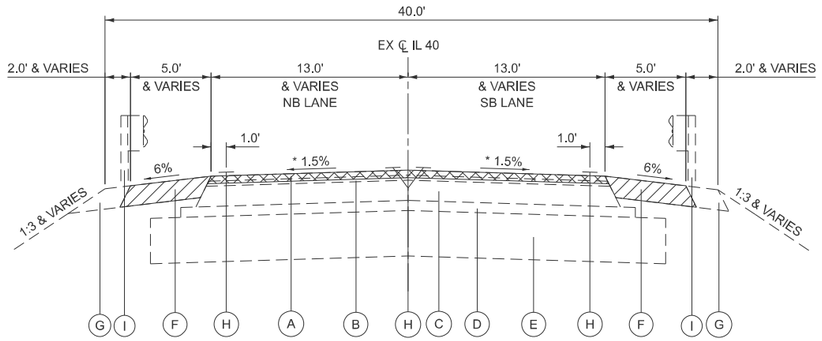
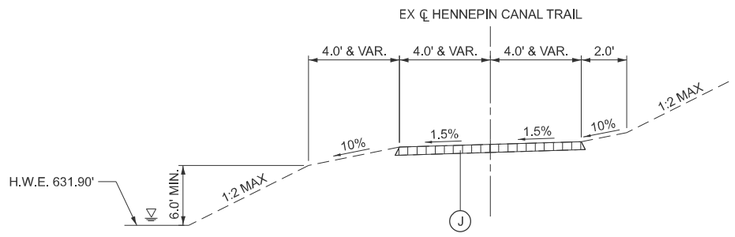
LOOKING SOUTH



EXISTING ROADWAY TYPICAL SECTION

STA 1444+11.01 TO STA 1444+28.03 BK
STA 1444+31.66 AH TO STA 1446+11.49
* VARIES FOR SUPERELEVATION TRANSITION
LOOKING SOUTH

BRIDGE OMISSION
STA 1446+11.49 TO STA 1448+23.92



EXISTING SHARED USE PATH TYPICAL SECTION

EXISTING

- (A) HOT-MIX ASPHALT SURFACE COURSE, 2"
- (B) HOT-MIX ASPHALT BINDER COURSE, 2"
- (C) HOT-MIX ASPHALT BASE COURSE, 8"
- (D) AGGREGATE BASE COURSE, TYPE A, 4"
- (E) GRANULAR SUBGRADE, 18"
- (F) HOT-MIX ASPHALT SHOULDER, 8"
- (G) AGGREGATE SHOULDER
- (H) EXISTING PAVEMENT MARKING
- (I) EXISTING GUARDRAIL
- (J) AGGREGATE SHARED USE PATH
- HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH (VARIES 0"-3")
- PAVED SHOULDER REMOVAL
- SHARED USE PATH REMOVAL (PAID FOR AS EARTH EXCAVATION)
- PAVEMENT REMOVAL

NOTES

1. THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED UNDER EACH OF THE SURFACE LIFTS.

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Civil Engineering Design

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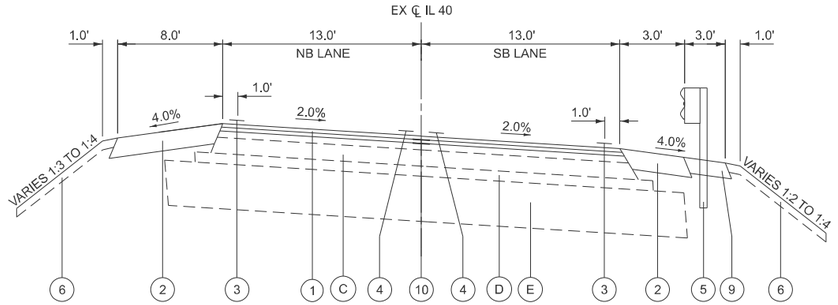
	DRAWN - PJG	REVISED -	
	CHECKED - RBB	REVISED -	
PLOT DATE = 1/14/2026	DATE - 1/14/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 40 OVER HENNEPIN CANAL
TYPICAL SECTIONS

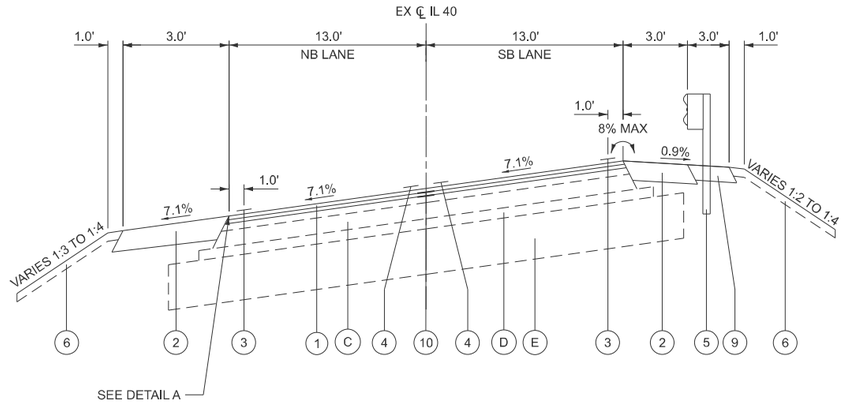
SCALE: NONE | SHEET 1 OF 2 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(104C-BR1)BR-1	BUREAU	62	9
		CONTRACT NO. 66M03		
	ILLINOIS FED. AID PROJECT			



PROPOSED ROADWAY TYPICAL SECTION

STA 1443+50.00 TO STA 1444+11.01
LOOKING SOUTH



PROPOSED ROADWAY TYPICAL SECTION

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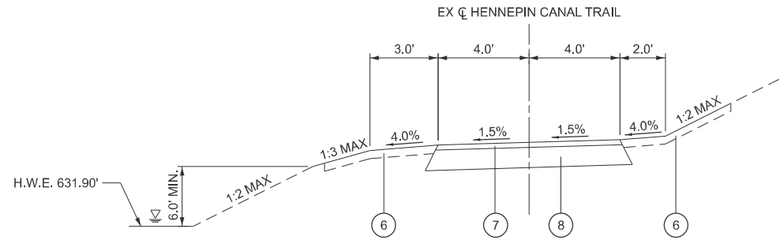
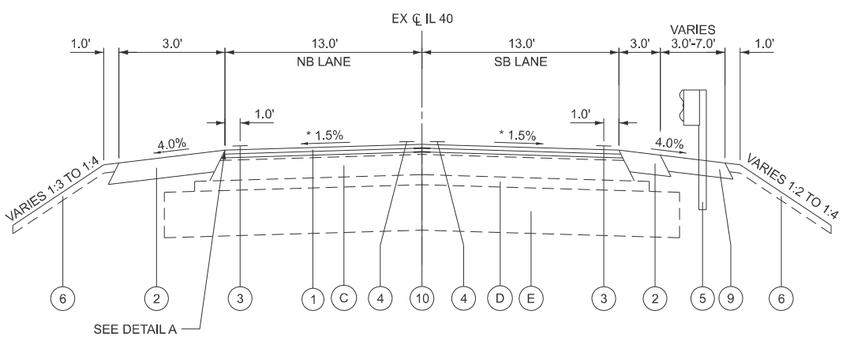
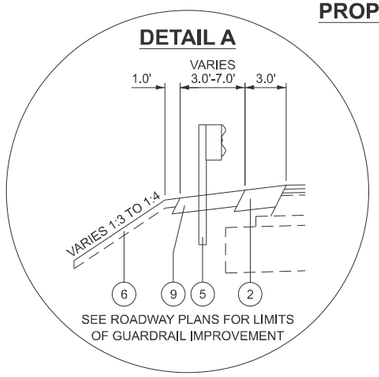
LOOKING SOUTH



PROPOSED SHARED USE PATH TYPICAL SECTION





PROPOSED ROADWAY TYPICAL SECTION

STA 1444+11.01 TO STA 1444+28.03 BK
STA 1444+31.66 AH TO STA 1446+01.66
* VARIES FOR SUPER ELEVATION TRANSITION
LOOKING SOUTH

BRIDGE OMISSION
STA 1446+01.66 TO STA 1448+33.46

EXISTING

- (A) HOT-MIX ASPHALT SURFACE COURSE, 2"
- (B) HOT-MIX ASPHALT BINDER COURSE, 2"
- (C) HOT-MIX ASPHALT BASE COURSE, 8"
- (D) AGGREGATE BASE COURSE, TYPE A, 4"
- (E) GRANULAR SUBGRADE, 18"
- (F) HOT-MIX ASPHALT SHOULDER, 8"
- (G) AGGREGATE SHOULDER
- (H) EXISTING PAVEMENT MARKING
- (I) EXISTING GUARDRAIL
- (J) AGGREGATE SHARED USE PATH
- HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH (VARIES 0"-3")
- PAVED SHOULDER REMOVAL
- SHARED USE PATH REMOVAL (PAID FOR AS EARTH EXCAVATION)
- PAVEMENT REMOVAL

PROPOSED

- (1) HOT-MIX ASPHALT SURFACE COURSE, IL 9.5, MIX "D", N70, 3" (2 LIFTS)
- (2) HOT-MIX ASPHALT SHOULDERS, 8"
- (3) MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (SOLID WHITE)
- (4) MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW)
- (5) STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- (6) PROPOSED TOPSOIL
- (7) LIMESTONE SCREENING SURFACE, 2"
- (8) AGGREGATE BASE COURSE, TYPE B, 8"
- (9) HOT-MIX ASPHALT STABILIZATION 6" AT STEEL PLATE BEAM GUARD RAIL
- (10) LONGITUDINAL JOINT SEALANT (SEE NOTE 1)

NOTES

1. THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED UNDER EACH OF THE SURFACE LIFTS.

MODEL: TYP02-5 [Sheet]
FILE NAME: O:\2022R3\IDOTCAD CONNECT\24006.07 IDOT D3 PTB 208-020 WO 07 IL40 o' Hennepin Canal\CADD Data\CADDsheets\D3668M03-eIHC-Typicals.dgn

EFK•Moen
Civil Engineering Design

USER NAME = JBerggren	DESIGNED - JDB	REVISED -	
	DRAWN - PJG	REVISED -	
	CHECKED - RBB	REVISED -	
PLOT DATE = 1/14/2026	DATE - 1/14/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 40 OVER HENNEPIN CANAL
TYPICAL SECTIONS

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(104C-BR1)BR-1	BUREAU	62	10
		CONTRACT NO. 66M03		
	ILLINOIS FED. AID PROJECT			

EARTHWORK SCHEDULE						
1		2	3	4	5	6
LOCATION		EARTH EXCAVATION	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIA_	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (25%)	EMBANKMENT	EARTH BALANCE WASTE (+) OR SHORTAGE (-)
		CU YD	CU YD	CU YD	CU YD	CU YD
IL 40	1443+50.00 TO 1444+00.00	13.9	0.7	10.4	8.9	1.5
IL 40	1444+00.00 TO 1444+50.00	10.3	0.6	7.7	9.5	-1.8
IL 40	1444+50.00 TO 1445+00.00	14.8	0.8	11.0	8.7	2.3
IL 40	1445+00.00 TO 1445+50.00	15.4	0.8	11.5	6.0	5.5
IL 40	1445+50.00 TO 1446+00.00	11.4	0.6	8.5	12.1	-3.6
IL 40	1446+00.00 TO 1446+30.67	5.7	0.3	4.2	13.4	-9.2
SN 006-0090	**1446+30.67 TO 1448+04.46**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
IL 40	1448+04.46 TO 1449+00.00	18.0	1.0	13.5	1.8	11.7
IL 40	1449+00.00 TO 1449+50.00	11.4	0.6	8.5	1.2	7.3
IL 40	1449+50.00 TO 1450+00.00	10.6	0.6	7.9	2.1	5.8
IL 40	1450+00.00 TO 1450+50.00	8.9	0.5	6.6	3.7	2.9
IL 40	1450+50.00 TO 1451+00.00	7.3	0.4	5.4	7.5	-2.1
IL 40	1451+00.00 TO 1451+50.00	5.8	0.3	4.3	9.7	-5.4
IL 40	1451+50.00 TO 1452+00.00	4.8	0.3	3.5	10.9	-7.4
IL 40	1452+00.00 TO 1452+50.00	18.7	1.0	14.0	7.2	6.8
IL 40	1452+50.00 TO 1453+00.00	20.0	1.0	14.9	2.3	12.6
IL 40	1453+00.00 TO 1453+50.00	6.8	0.4	5.1	4.1	1.0
IL 40	1453+50.00 TO 1454+00.00	6.1	0.4	4.5	4.4	0.1
IL 40	1454+00.00 TO 1454+50.00	6.4	0.4	4.8	4.0	0.8
HENNEPIN	14+55.00 TO 15+00.00	19.5	1.0	14.6	22.8	-8.2
CANAL TRAIL	15+00.00 TO 15+45.00	23.5	1.2	17.6	16.4	1.2
	TOTAL	240	15	180	160	20

COLUMN 1: LOCATION FROM PLANS.
COLUMN 2: CUT QUANTITIES. DOES NOT INCLUDE UNSUITABLE MATERIAL.
COLUMN 3: CUT MATERIAL THAT IS DETERMINED TO BE EITHER UNSTABLE OR UNSUITABLE FOR USE IN EMBANKMENT. NOMINAL QUANTITY OF 5% OF EARTH EXCAVATION (COLUMN 2) PROVIDED.
COLUMN 4: QUANTITIES OF EARTH EXCAVATION ADJUSTED FOR A SHRINKAGE FACTOR OF 25%.
COLUMN 5: QUANTITIES OF EMBANKMENT (FILL).
COLUMN 6: EARTHWORK BALANCE (COLUMN 4 - COLUMN 5).
(+) = QUANTITY OF EXTRA EXCAVATION TO BE WASTED.
(-) = QUANTITY OF FURNISHED EXCAVATION NEEDED.

ROADWAY REMOVAL SCHEDULE

FROM STATION	TO STATION	OFFSET	PAVEMENT REMOVAL	CURB REMOVAL	PAVED SHOULDER REMOVAL	BRIDGE APPROACH SHOULDER REMOVAL	APPROACH SLAB REMOVAL	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH
			SQ YD	FOOT	SQ YD	SQ YD	SQ YD	SQ YD
1443+50.00	1446+31.28	RT		11.4	237.3	4.8		
1443+50.00	1446+31.28	RT/LT	68.1				57.6	642.2
1443+50.00	1446+31.28	LT		11.4	208.3	4.9		
1448+04.03	1454+50.00	RT		11.5		4.6		
1448+04.03	1454+50.00	RT/LT	71.1				58.0	1677.6
1448+04.03	1454+50.00	LT	191.5	11.5		4.6		
		TOTAL	331	46	446	19	116	2320

GUARDRAIL REMOVAL SCHEDULE

FROM STATION	TO STATION	OFFSET	GUARDRAIL REMOVAL
			FOOT
1444+16.76	1446+46.68	RT	226.7
1444+95.29	1446+46.03	LT	151.2
1447+88.22	1451+84.87	RT	402.2
1447+88.79	1450+15.88	LT	225.2
		TOTAL	1006

PROPOSED PAVEMENT SCHEDULE

LOCATION	FROM STATION	TO STATION	OFFSET	AGGREGATE SURFACE COURSE, TYPE B	BITUMINOUS MATERIALS (TACK COAT)	LONGITUDINAL JOINT SEALANT	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	WELDED WIRE REINFORCEMENT	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	PROTECTIVE COAT	HOT-MIX ASPHALT SHOULDERS, 8"	HOT-MIX ASPHALT STABILIZATION 6" AT STEEL PLATE BEAM GUARD RAIL
				TON	POUND	FOOT	TON	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD
IL 40	1443+50.00	1446+01.66	LT		275.4						161.8	53.0
IL 40	1443+50.00	1446+01.66	LT/RT		614.9	466.2	114.2	43.4	53.4	53.4		
IL 40	1443+42.97	1446+01.66	RT		261.4						80.0	164.6
IL 40	1448+33.46	1454+50.00	LT	42.8	340.0						198.2	55.2
IL 40	1448+33.46	1454+50.00	LT/RT		1586.7	1203.2	294.8	43.4	53.4	53.4		
IL 40	1448+33.46	1454+50.00	RT		451.6						202.9	181.3
			TOTAL	43	3530	1670	409	87	107	107	643	455

HENNEPIN CANAL TRAIL SCHEDULE

FROM STATION	TO STATION	AGGREGATE BASE COURSE, TYPE B 8"	LIMESTONE SCREENING SURFACE, 2"
		SQ YD	SQ YD
14+55.00	15+45.00	79.6	79.6
	TOTAL	80	80

FENCE SCHEDULE

FROM STATION	TO STATION	OFFSET	FENCE REMOVAL AND REINSTALLATION
			FOOT
1446+19.05	1446+31.35	LT	40.9
1448+04.07	1448+97.77	LT	104.5
		TOTAL	146

MODEL: Sched02 [Sheet]
FILE NAME: O:\2022R3\IDOTCAD CONNECT\124006.07 IDOT D3 PTB 209-020 WO 07 IL40 o' Hennepin Canal\CADD Data\CADsheets\D366M03-sht-Schedule.dgn

EFK•Moen
Civil Engineering Design

USER NAME = pgillespie	DESIGNED - SNK	REVISED -	
	DRAWN - PJG	REVISED -	
	CHECKED - RBB	REVISED -	
PLOT DATE = 1/13/2026	DATE - 1/14/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 40 OVER HENNEPIN CANAL
SCHEDULE OF QUANTITIES

SCALE: N/A | SHEET 2 OF 3 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(104C-BR1)BR-1	BUREAU	62	12
		CONTRACT NO. 66M03		
	ILLINOIS FED. AID PROJECT			

PROPOSED GUARDRAIL SCHEDULE

FROM STATION	TO STATION	OFFSET	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 6	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	DELINEATORS	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL REFLECTORS, TYPE A	BARRIER WALL REFLECTORS, TYPE C	LINEAR DELINEATOR PANELS, 4 INCH	LINEAR DELINEATOR PANELS, 6 INCH
			FOOT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
1443+59.25	1446+16.66	RT	162.5	1	1	1	1	4		3	
1445+17.88	1446+16.66	LT	12.5	1	1	1	1	4		2	
1440+10.00	1448+18.40	LT							6		3
1446+16.66	1448+18.46	RT							6		3
1448+18.46	1449+72.25	LT	62.5	1	1	1	1	4		2	
1448+18.46	1453+42.25	RT	437.5	1	1	1	1	6		6	
		TOTAL	675.0	4	4	4	4	18	12	13	6

PAVEMENT MARKING SCHEDULE

START STATION	END STATION	OFFSET	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"		RAISED REFLECTIVE PAVEMENT MARKER	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL
			SOLID WHITE	DOUBLE YELLOW		
			FOOT	FOOT	EACH	EACH
1443+50.00	1454+50.00	LT	2182			
1443+50.00	1454+50.00	CL		4388	12	14
1443+50.00	1454+50.00	RT	2206			
		SUBTOTAL	4388	4388	12	14
		TOTAL	8776		12	14

NOTES:
1. PAVEMENT MARKINGS SHALL BE APPLIED IN TWO APPLICATIONS.

SIGNING SCHEDULE

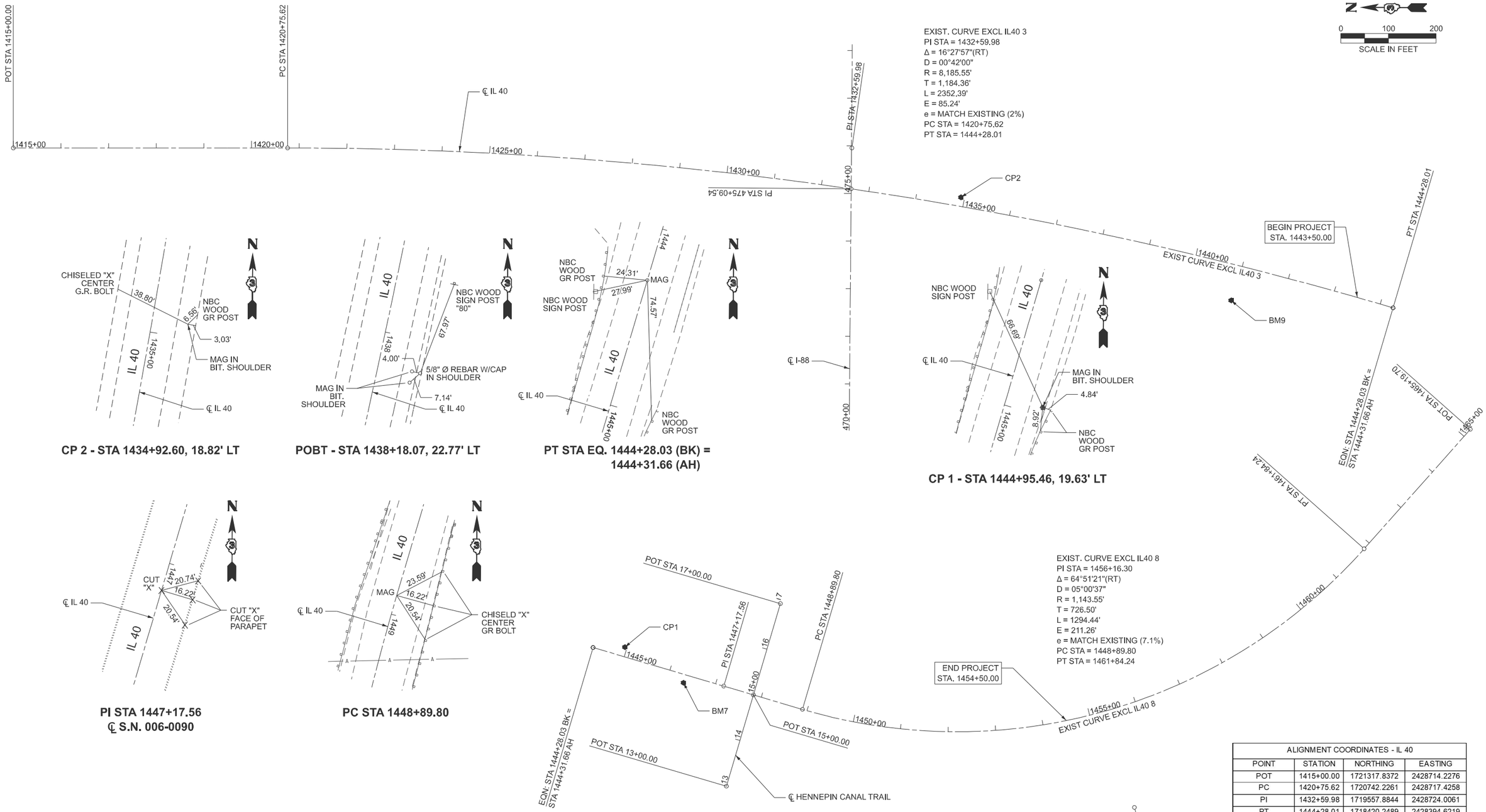
EXISTING STATION	EXISTING OFFSET	PROPOSED STATION	PROPOSED OFFSET	PROPOSED MOUNTING TYPE	DESIGNATION	SHEETING TYPE	DESCRIPTION	PANEL WIDTH	PANEL HEIGHT	PANEL AREA	SIGN PANEL - TYPE 1	REMOVE SIGN PANEL ASSEMBLY - TYPE B	REMOVE SIGN PANEL - TYPE 1	METAL POST - TYPE A	WOOD SIGN SUPPORT	REMOVE GROUND MOUNTED SIGN SUPPORT
								INCH	INCH	SQ FT	SQ FT	EACH	SQ FT	FOOT	FOOT	EACH
1444+46	25.19' RT	1444+46	25.19' RT	GROUND	W1-4L	AZ SHEETING	REVERSE CURVE	36	36	9.0	9.0	1			16.5	
				GROUND	W13-1P	AZ SHEETING	ADVISORY SPEED	24	24	4.0	4.0					
1446+00	22.38' RT	1446+00	22.38' RT	GROUND	R2-1	AP SHEETING	SPEED LIMIT	30	36	7.5	7.5	1			16.0	
				GROUND	I1-I106	AP SHEETING	HISTORICAL MARKER	30	24	5.0	5.0					
1446+09	20.04' LT	1446+09	20.04' LT	GROUND	R2-1	AP SHEETING	SPEED LIMIT	30	36	7.5	7.5		7.5		13.5	
1447+76	23.81' RT	1447+76	23.81' RT	GROUND	OM3-L	AZ SHEETING	TYPE 3 OBJECT MARKER	6	18	0.8	0.8			9.5		1
1447+76	21.90' LT	1447+76	21.90' LT	GROUND	OM3-R	AZ SHEETING	TYPE 3 OBJECT MARKER	6	18	0.8	0.8			9.5		1
		1447+77	50.00' LT	GROUND	W12-2	AZ SHEETING	LOW CLEARANCE ADVANCE	18	18	2.3	2.3			9.5		
		1447+89	50.00' RT	GROUND	W12-2	AZ SHEETING	LOW CLEARANCE ADVANCE	18	18	2.3	2.3			9.5		
1447+89	23.81' RT	1447+89	23.81' RT	GROUND	OM3-R	AZ SHEETING	TYPE 3 OBJECT MARKER	6	18	0.8	0.8			9.5		1
1447+89	21.90' LT	1447+89	21.90' LT	GROUND	OM3-L	AZ SHEETING	TYPE 3 OBJECT MARKER	6	18	0.8	0.8			9.5		1
				GROUND	M3-1P	AP SHEETING	CARDINAL DIRECTION	24	12	2.0	2.0					
1448+17	19.18' LT	1448+17	19.18' LT	GROUND	M1-5	AP SHEETING	STATE ROUTE	24	24	4.0	4.0	1			16.5	
				GROUND	I1-I106	AP SHEETING	HISTORICAL MARKER	30	24	5.0	5.0					
1450+07	25.25' LT	1450+07	25.25' LT	GROUND	M2-1P	AP SHEETING	JUNCTION	30	21	4.4	4.4	1			16.5	
				GROUND	M1-1	AP SHEETING	INTERSTATE ROUTE	36	36	9.0	9.0				14.5	
1454+09	23.07' RT	1454+09	23.07' RT	GROUND	W12-2	AZ SHEETING	LOW CLEARANCE ADVANCE	36	36	9.0	9.0		9.0			
										TOTAL	74	4	17	57	94	4

EROSION CONTROL SCHEDULE

FROM STATION	TO STATION	OFFSET	EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING	PERIMETER EROSION BARRIER
			SQ YD	POUND	FOOT
1443+35.00	1446+25.00	RT	265.8	16.5	362.0
1443+45.00	1446+29.11	LT	249.5	15.5	332.0
1447+72.00	1452+33.35	LT	572.8	35.5	505.7
1447+72.00	1454+55.00	RT	612.8	38.0	760.7
1452+58.02	1454+55.00	LT	101.5	6.3	197.4
		TOTAL	1803	112	2158

LANDSCAPING SCHEDULE

FROM STATION	TO STATION	OFFSET	SEEDING CLASS 2A	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT
			ACRE	POUND	POUND	POUND
1443+36.40	1445+96.17	RT	0.04	3.5	3.5	3.5
1443+50.00	1445+96.17	LT	0.05	4.1	4.1	4.1
1446+02.17	1446+24.16	RT	0.02	1.4	1.4	1.4
1446+02.17	1446+23.28	LT	0.01	0.6	0.6	0.6
1447+73.98	1447+78.55	LT	0.00	0.4	0.4	0.4
1447+73.98	1447+78.55	RT	0.00	0.4	0.4	0.4
1447+85.85	1448+32.96	LT	0.02	2.2	2.2	2.2
1448+38.96	1452+33.35	LT	0.09	8.1	8.1	8.1
1447+86.55	1454+50.00	RT	0.12	11.0	11.0	11.0
1452+58.02	1454+50.00	LT	0.02	1.9	1.9	1.9
		TOTAL	0.37	33.5	33.5	33.5
		ROUNDED TOTAL	0.50	45	45	45



CP 2 - STA 1434+92.60, 18.82' LT

POBT - STA 1438+18.07, 22.77' LT

PT STA EQ. 1444+28.03 (BK) = 1444+31.66 (AH)

CP 1 - STA 1444+95.46, 19.63' LT

PI STA 1447+17.56
℄ S.N. 006-0090

PC STA 1448+89.80

BENCHMARK #7

S.S. DISC TOP NW PARAPET
OF SN 006-0090
STA 1446+34.64, 17.14' RT
N 1718230.0220'
E 2428321.7030'
EL 652.30'

BENCHMARK #9

CHISELED 'X' SE BOLT LIGHT
FDN #3 @ I-80 EB RAMP
STA 1440+94.57, 74.66' RT
N 1718760.1680'
E 2428408.3090'
EL 639,78'

CONTROL POINT #1

MAG NAIL IN HMA SHLDR, NE QUAD G. RAIL
STA 1444+95.46, 19.63' LT
N 1718353.4920'
E 2428395.7300'
EL 648.05'

CONTROL POINT #2

MAG NAIL IN HMA SHLDR, SE QUAD G. RAIL
END SECT SN 006-0089
STA 1434+92.60, 18.82' LT
N 1719328.5180'
E 2428621.4780'
EL 657.95'

ALIGNMENT COORDINATES - HENNEPIN CANAL TRAIL			
POINT	STATION	NORTHING	EASTING
POT	13+00.00	1718138.8050	2428104.9199
POT	15+00.00	1718083.1827	2428297.0297
POT	17+00.00	1718027.5604	2428489.1394

ALIGNMENT COORDINATES - IL 40			
POINT	STATION	NORTHING	EASTING
POT	1415+00.00	1721317.8372	2428714.2276
PC	1420+75.62	1720742.2261	2428717.4258
PI	1432+59.98	1719557.8844	2428724.0061
PT	1444+28.01	1718420.2489	2428394.6219
EQNBK	1444+28.03	1718420.2296	2428394.6162
EQNAHD	1444+31.66	1718420.2296	2428394.6162
PI	1447+17.56	1718145.6085	2428315.1041
PC	1448+89.80	1717980.1635	2428267.2021
PI	1456+16.30	1717282.3249	2428065.1540
PT	1461+84.24	1716802.9137	2428611.0178
POT	1465+19.70	1716581.5466	2428863.0693

MODEL: ATB1 [Sheet]
FILE NAME: O:\2022R3\IDOTCAD CONNECT\24006.07 IDOT D3 PTB 208-020 WO 07 IL40 o' Hennepin Canal\CADD Data\CADSheets\D366M03-eIH-ATB.dgn

EFK•Moen
Civil Engineering Design

USER NAME = skierpiec	DESIGNED - JDB	REVISED -	
	DRAWN - ZJW	REVISED -	
	CHECKED - RBB	REVISED -	
PLOT DATE = 1/9/2026	DATE - 11/14/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 40 OVER HENNEPIN CANAL
ALIGNMENT, TIES, & BENCHMARKS

SCALE: 1"=100' | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(104C-BR1)BR-1	BUREAU	62	14
		CONTRACT NO. 66M03		
	ILLINOIS	FED. AID PROJECT		

0 50 100
SCALE IN FEET

BEGIN PROJECT
STA. 1443+50.00

EX ROW

GUARDRAIL REMOVAL, 151 LF

FENCE REMOVAL AND
REINSTALLATION, 41 LF

CURB REMOVAL, 11 LF

STA. 1448+45.33
O/S. 49.33' LT.

FENCE REMOVAL AND
REINSTALLATION, 105 LF

CURB REMOVAL, 12 LF

STA. 1448+03.58
O/S. 18.46' LT.

PC STA 1448+89.80

GUARDRAIL REMOVAL, 225 LF

AGGREGATE SHOULDER
REMOVAL (PAID FOR AS
EARTH EXCAVATION)

FIELD ENTRANCE REMOVAL
(PAID FOR AS EARTH EXCAVATION)

END PROJECT
STA. 1454+50.00

EX ROW

8.01'
3.66'
24.92'
9.30'
1.89'
+86.66
+11.49
+48.46
3.08'
2.62'
2.54'
24.54'

1441 1442 1443 1444 1445+00 1445 1446 1447 1448 1449 1450+00 1451 1452 1453 1454 1455+00

PI STA 15+00.00

I-80 EB ENTRANCE RAMP

I-80 EB EXIT RAMP

EX ROW

EQN: STA 1444+28.03 BK =
STA 1444+31.66 AH

+31.28

HENNEPIN CANAL

PI STA 1447+17.56

HENNEPIN CANAL TRAIL

+04.03

+23.92

℄ F.A.P 646 (IL 40)

GUARDRAIL REMOVAL, 402 LF

CURB REMOVAL, 12 LF

SHARED USE PATH REMOVAL
(PAID FOR AS EARTH EXCAVATION)

GUARDRAIL REMOVAL, 227 LF

CURB REMOVAL, 11 LF

SN 006-0090 DECK REPLACEMENT
SEE STRUCTURE PLANS

REMOVAL LEGEND

- PAVEMENT REMOVAL
- PAVED SHOULDER REMOVAL
- HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH (VARIES 0"-3")
- APPROACH SLAB REMOVAL
- BRIDGE APPROACH SHOULDER REMOVAL
- LINEAR ITEM REMOVAL
- LIMITS OF CONSTRUCTION

NOTES

1. SEE DRAINAGE PLANS FOR REMOVAL OF EXISTING DRAINAGE ITEMS.

MODEL: Removal1
FILE NAME: O:\2022R3\IDOT\CAD CONNECT\24006.07 IDOT D3 PTB 209-020 WO 07 IL-40 o' Hennepin Canal\CADD Data\CADsheets\D366M03-sht-Removal.dgn

EFK•Moen
Civil Engineering Design

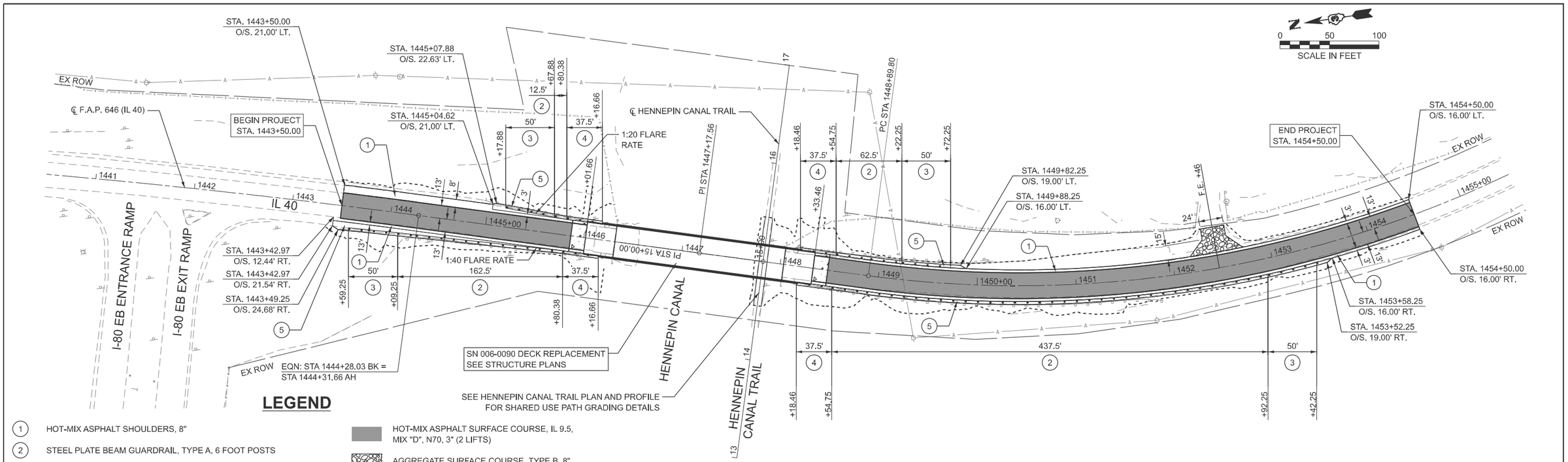
USER NAME = JBerggren	DESIGNED - JDB	REVISED -	
	DRAWN - ZJW	REVISED -	
	CHECKED - RBB	REVISED -	
PLOT DATE = 2/3/2026	DATE - 1/14/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 40 OVER HENNEPIN CANAL
REMOVAL PLAN

SCALE: 1"=50' | SHEET 1 OF 1 SHEETS | STA. 1440+50.0000 TO STA. 1455+53.6251 R2

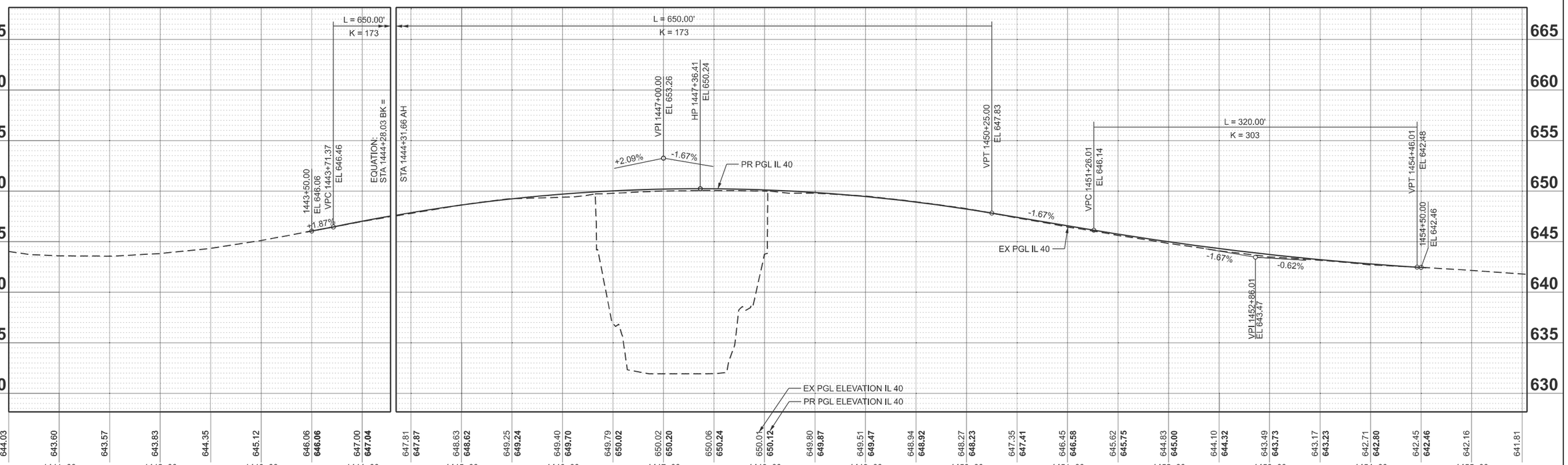
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(104C-BR1)BR-1	BUREAU	62	15
		CONTRACT NO. 66M03		
		ILLINOIS	FED. AID PROJECT	



LEGEND

1. HOT-MIX ASPHALT SHOULDERS, 8"
2. STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
3. TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
4. TRAFFIC BARRIER TERMINAL, TYPE 6
5. HOT-MIX ASPHALT STABILIZATION 6" AT STEEL PLATE BEAM GUARD RAIL

- HOT-MIX ASPHALT SURFACE COURSE, IL 9.5, MIX "D", N70, 3" (2 LIFTS)
- AGGREGATE SURFACE COURSE, TYPE B, 8"
- PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
- LIMITS OF CONSTRUCTION



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EFK•Moen
Civil Engineering Design

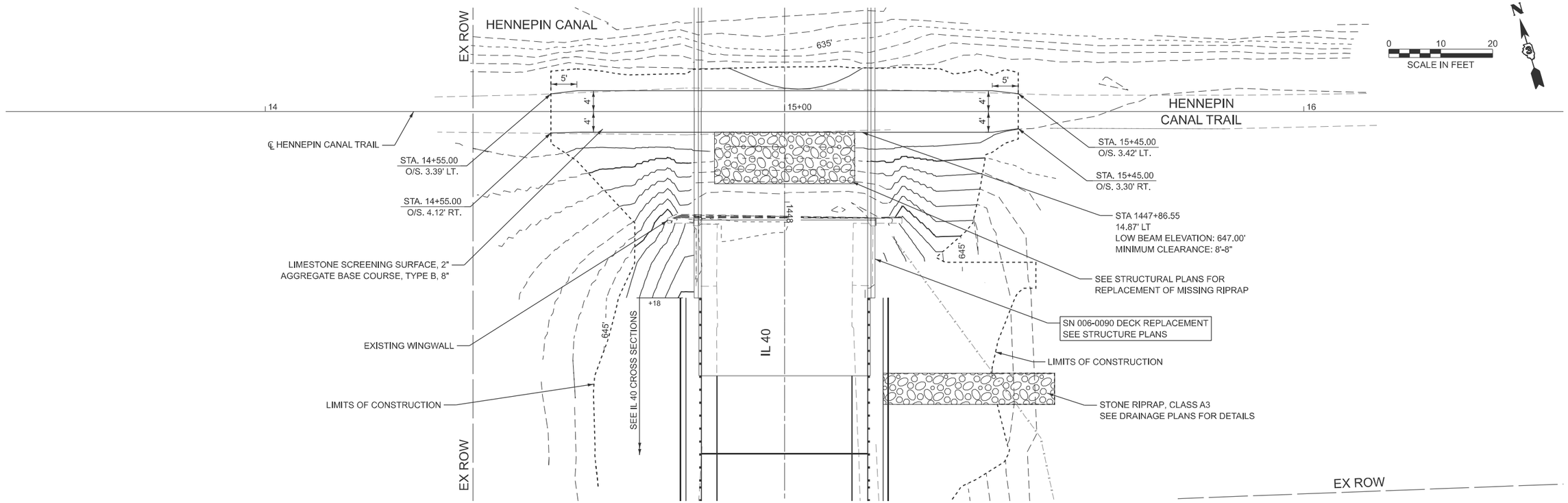
USER NAME = pgillespie	DESIGNED - JDB	REVISED -	
	DRAWN - ZJW	REVISED -	
	CHECKED - RBB	REVISED -	
PLOT DATE = 1/14/2026	DATE - 1/14/2026	REVISED -	

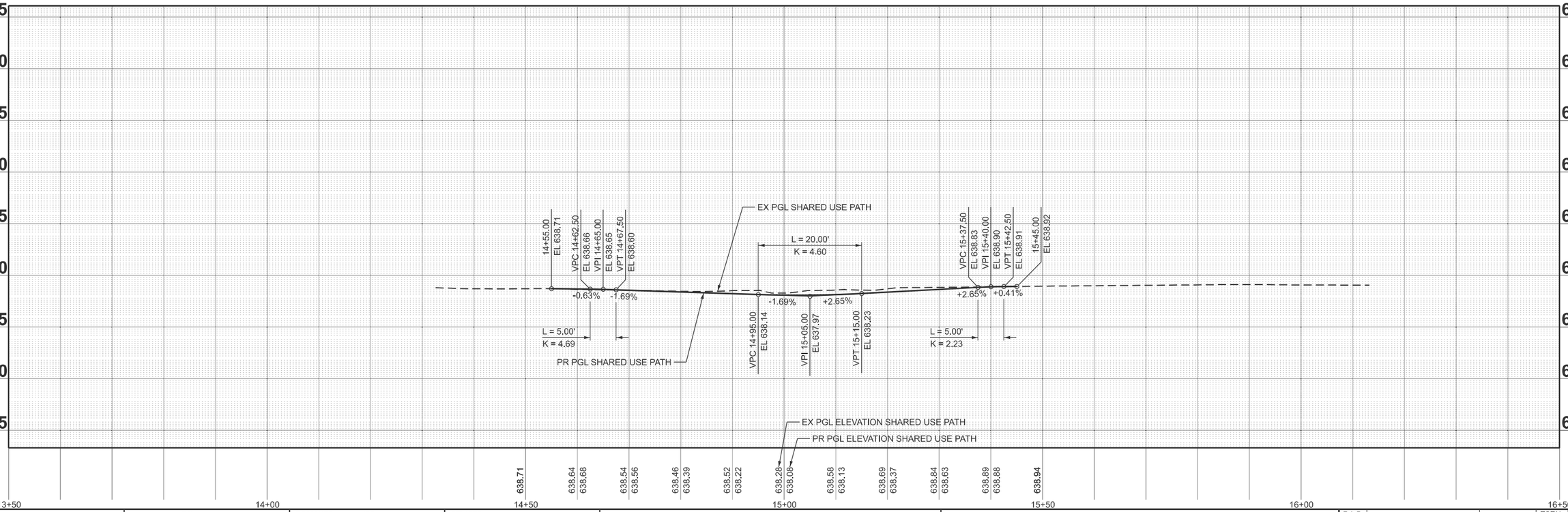
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 40 OVER HENNEPIN CANAL
PLAN & PROFILE

SCALE: 1"=50' | SHEET 1 OF 2 SHEETS | STA. 1440+50.00 | TO STA. 1455+54.81 R2

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(104C-BR1)BR-1	BUREAU	62	16
		CONTRACT NO. 66M03		
	ILLINOIS FED. AID PROJECT			





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EFK•Moen
Civil Engineering Design

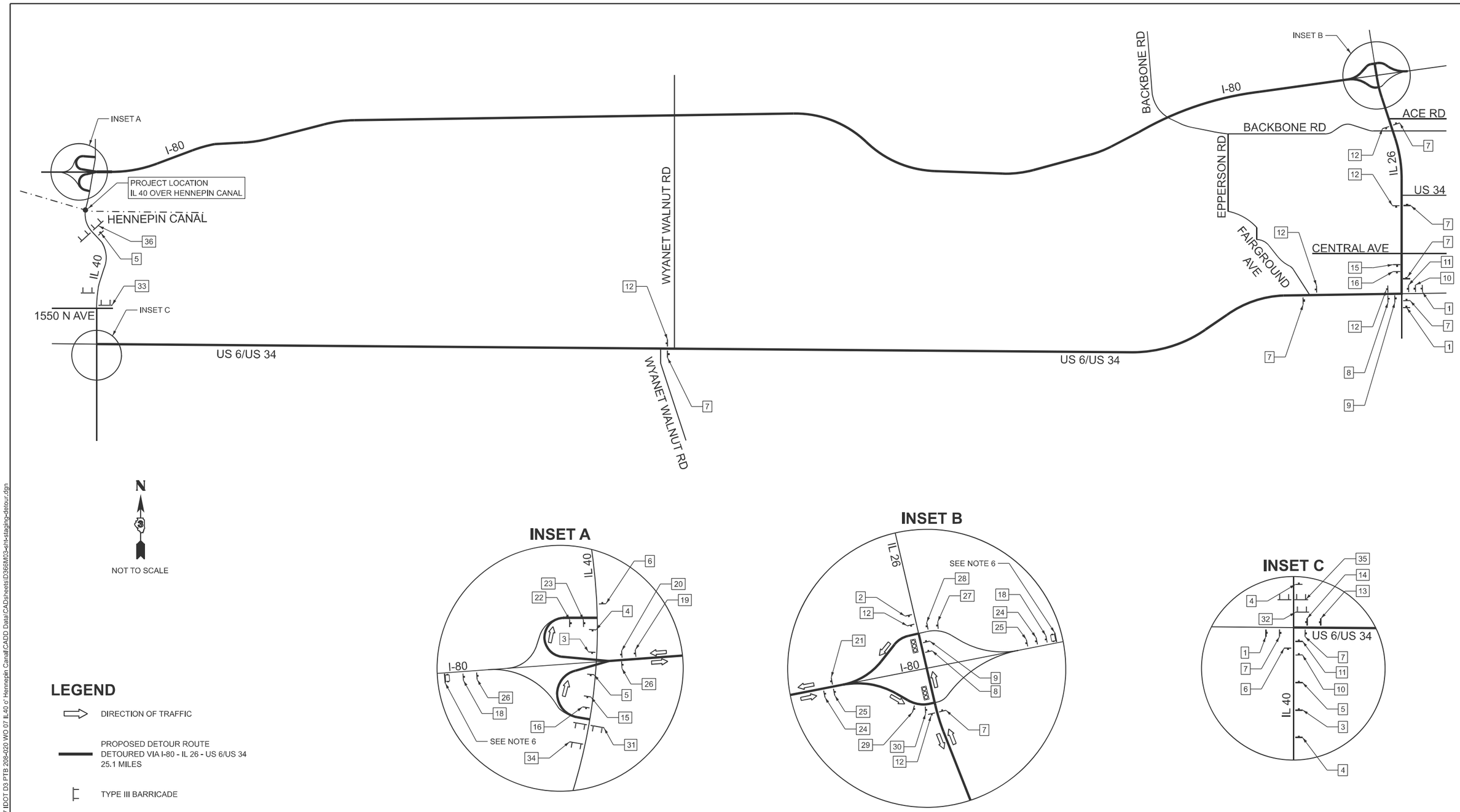
USER NAME = ZWaters	DESIGNED - JDB	REVISED -	
	DRAWN - ZJW	REVISED -	
	CHECKED - RBB	REVISED -	
PLOT DATE = 1/15/2026	DATE - 1/14/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 40 OVER HENNEPIN CANAL
PLAN & PROFILE

SCALE: 1"=10' | SHEET 2 OF 2 SHEETS | STA. 13+50.00 | TO STA. 16+50.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(104C-BR1)BR-1	BUREAU	62	17
		CONTRACT NO. 66M03		
	ILLINOIS	FED. AID PROJECT		



NOT TO SCALE

LEGEND

- DIRECTION OF TRAFFIC
- PROPOSED DETOUR ROUTE
  DETOURED VIA I-80 - IL 26 - US 6/US 34
  25.1 MILES
- TYPE III BARRICADE
- PORTABLE CHANGEABLE MESSAGE SIGN

SEE FOLLOWING SHEET FOR NOTES AND SIGNING LEGEND

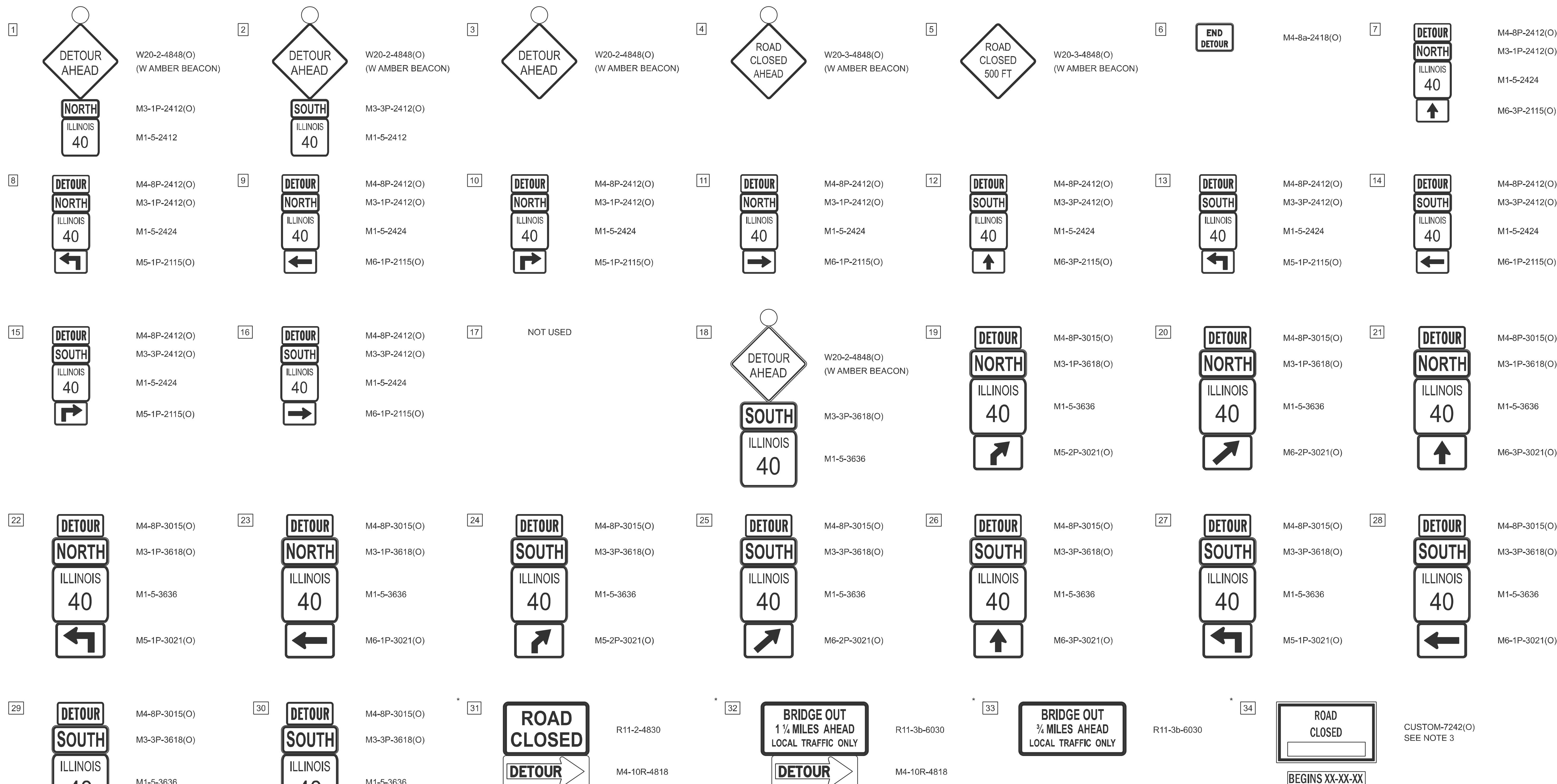
MODEL: Gennote01 [Sheet]
FILE NAME: O:\2022R3\DOTCAD CONNECT\24006.07 IDOT D3 PTB 208-020 WO 07 IL 40 o' Hennepin Canal\CADD Data\CADsheets\D366M03-sht-staging-detour.dgn

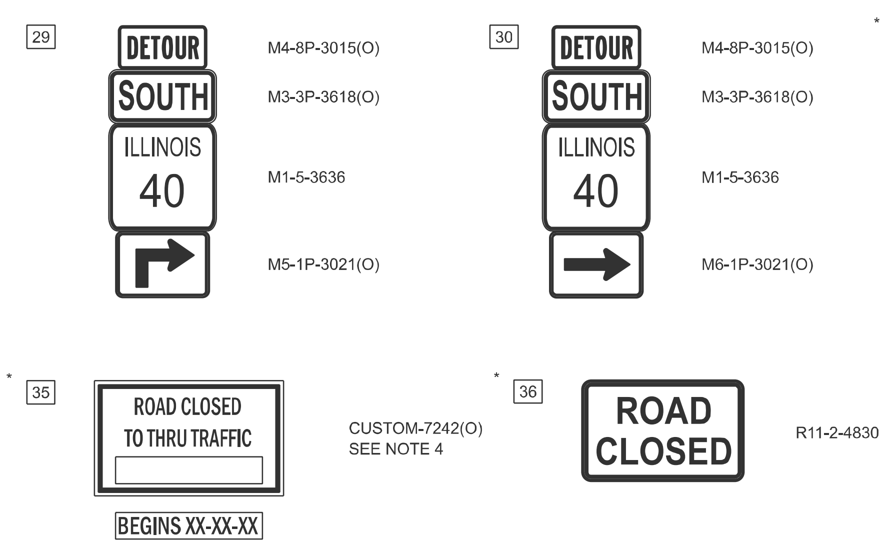
EFK•Moen Civil Engineering Design	USER NAME = pgillespie	DESIGNED - JDB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN - PJG	REVISED -	
		CHECKED - RBB	REVISED -	
	PLOT DATE = 1/13/2026	DATE - 1/14/2026	REVISED -	

IL 40 OVER HENNEPIN CANAL
DETOUR PLAN

SCALE: NONE | SHEET 1 OF 3 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(104C-BR1)BR-1	BUREAU	62	18
		CONTRACT NO. 66M03		
	ILLINOIS FED. AID PROJECT			





NOTES

1. SIGNS DESIGNATED AS (O) SHALL HAVE FLUORESCENT ORANGE SHEETING MATERIAL.
2. THE CONTRACTOR SHALL NOT OBSTRUCT ANY EXISTING SIGN WITH THE PLACEMENT OF DETOUR SIGNAGE.
3. REFER TO DISTRICT DETAIL 720-10, TEMPORARY INFORMATION SIGNING - ROAD CLOSED.
4. REFER TO DISTRICT DETAIL 720-11, TEMPORARY INFORMATION SIGNING - ROAD CLOSED TO THRU TRAFFIC.
5. COVER EXISTING CONFLICTING SIGNS. DO NOT PLACE TAPE OR DRILL INTO THE FACE OF THE SIGN WHEN COVERING.
6. TWO EXTRA MESSAGE BOARDS ON I-80 SHALL BE PROVIDED DISPLAYING THE MESSAGES BELOW FOR THE DURATION OF THE PROJECT.

MSG 1:	MSG 2:
SOUTH	USE
IL 40	IL 26
CLOSED	

7. INSTALL DETOUR ROUTE SIGNS ADJACENT TO EXISTING ROUTE MARKERS.
8. TYPICAL SIGN SPACING SHALL BE 300' ON SURFACE STREETS AND 500' ON EXPRESSWAYS AND RAMPS.
9. DETOUR ROUTE SIGN LOCATIONS MAY BE ADJUSTED IN CONSTRUCTION AS NECESSARY BY RESIDENT ENGINEER.

* MOUNTING OF SIGN ON TYPE III BARRICADE SHALL BE NCHRP 350 COMPLIANT.

MODEL: Gennote02 [Sheet]
FILE NAME: O:\2022R3\IDOTCAD CONNECT\24006.07 IDOT D3 PTB 208-020 WO 07 IL 40 o' Hennepin Canal\CADD Data\CADsheets\D366M03-sht-staging-detour.dgn

EFK•Moen
Civil Engineering Design

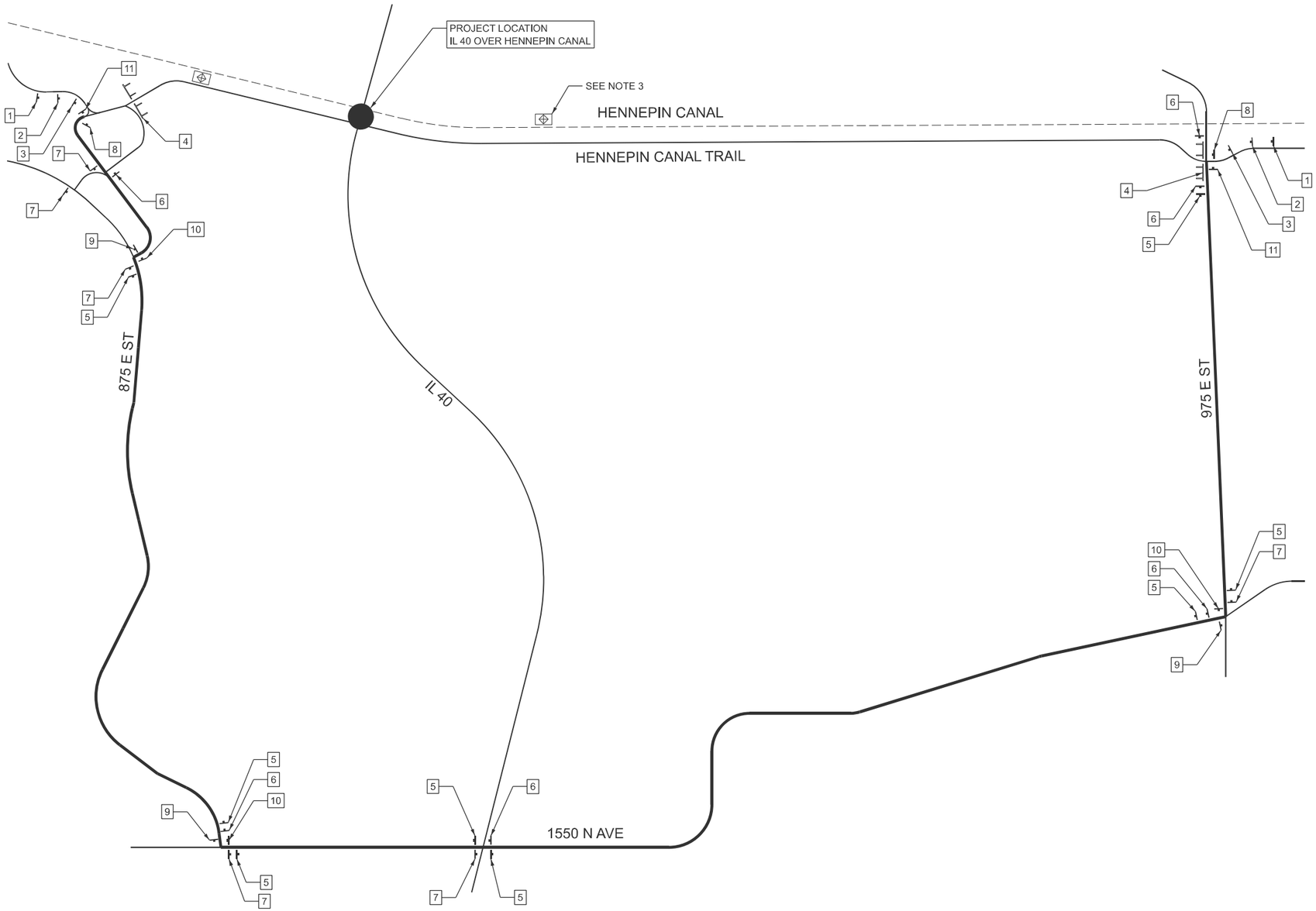
USER NAME = pgillespie	DESIGNED - JDB	REVISED -
	DRAWN - PJG	REVISED -
	CHECKED - RBB	REVISED -
PLOT DATE = 1/13/2026	DATE - 1/14/2026	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

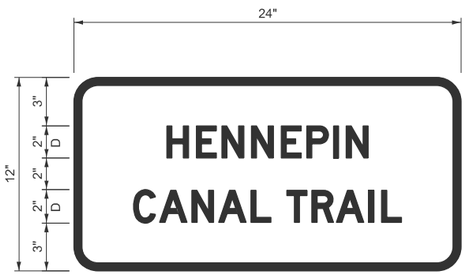
IL 40 OVER HENNEPIN CANAL
DETOUR PLAN

SCALE: N/A | SHEET 2 OF 3 SHEETS | STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(104C-BR1)BR-1	BUREAU	62	19
		CONTRACT NO. 66M03		
		ILLINOIS FED. AID PROJECT		



1	ROAD WORK AHEAD	W20-1-3030(O)
2	PATH CLOSED AHEAD	W20-3a-3030(O)
3	DETOUR AHEAD	W20-2a-3030(O)
4	PATH CLOSED	R11-2c-4830
5	MAY USE FULL LANE	R9-20-3636
6	WEST / HENNEPIN CANAL TRAIL / DETOUR	M3-4P-2412(O) D1-1c-2412(O) M4-9c-3024(O) M6-3P-2115(O)
7	EAST / HENNEPIN CANAL TRAIL / DETOUR	M3-2P-2412(O) D1-1c-2412(O) M4-9c-3024(O) M6-3P-2115(O)
8	WEST / HENNEPIN CANAL TRAIL / DETOUR	M3-4P-2412(O) D1-1c-2412(O) M4-9cL-3024(O)
9	EAST / HENNEPIN CANAL TRAIL / DETOUR	M3-2P-2412(O) D1-1c-2412(O) M4-9cL-3024(O)
10	WEST / HENNEPIN CANAL TRAIL / DETOUR	M3-4P-2412(O) D1-1c-2412(O) M4-9cR-3024(O)
11	EAST / HENNEPIN CANAL TRAIL / DETOUR	M3-2P-2412(O) D1-1c-2412(O) M4-9cR-3024(O)



D1-1c-2412(O)
(MODIFIED)

LEGEND

- REGULATORY BUOY
- PROPOSED DETOUR ROUTE
- TYPE III BARRICADE

N

NOT TO SCALE

NOTES

1. SIGNS DESIGNATED AS (O) SHALL HAVE FLUORESCENT ORANGE SHEETING MATERIAL.
2. THE CONTRACTOR SHALL NOT OBSTRUCT ANY EXISTING SIGN WITH THE PLACEMENT OF DETOUR SIGNAGE.
3. PLACE REGULATORY BUOYS ("KEEP OUT") WITH ORANGE DIAMOND WITH AN ORANGE CROSS INSIDE ON EACH SIDE OF THE CANAL (TOTAL OF 2).

MODEL: Gennote03 [Sheet]
FILE NAME: O:\2022R3\DOTCAD CONNECT\24006.07 IDOT D3 PTB 208-020 WO 07 IL 40 o' Hennepin Canal\CADD Data\CADsheets\D366M03-sht-staging-detour.dgn

EFK•Moen
Civil Engineering Design

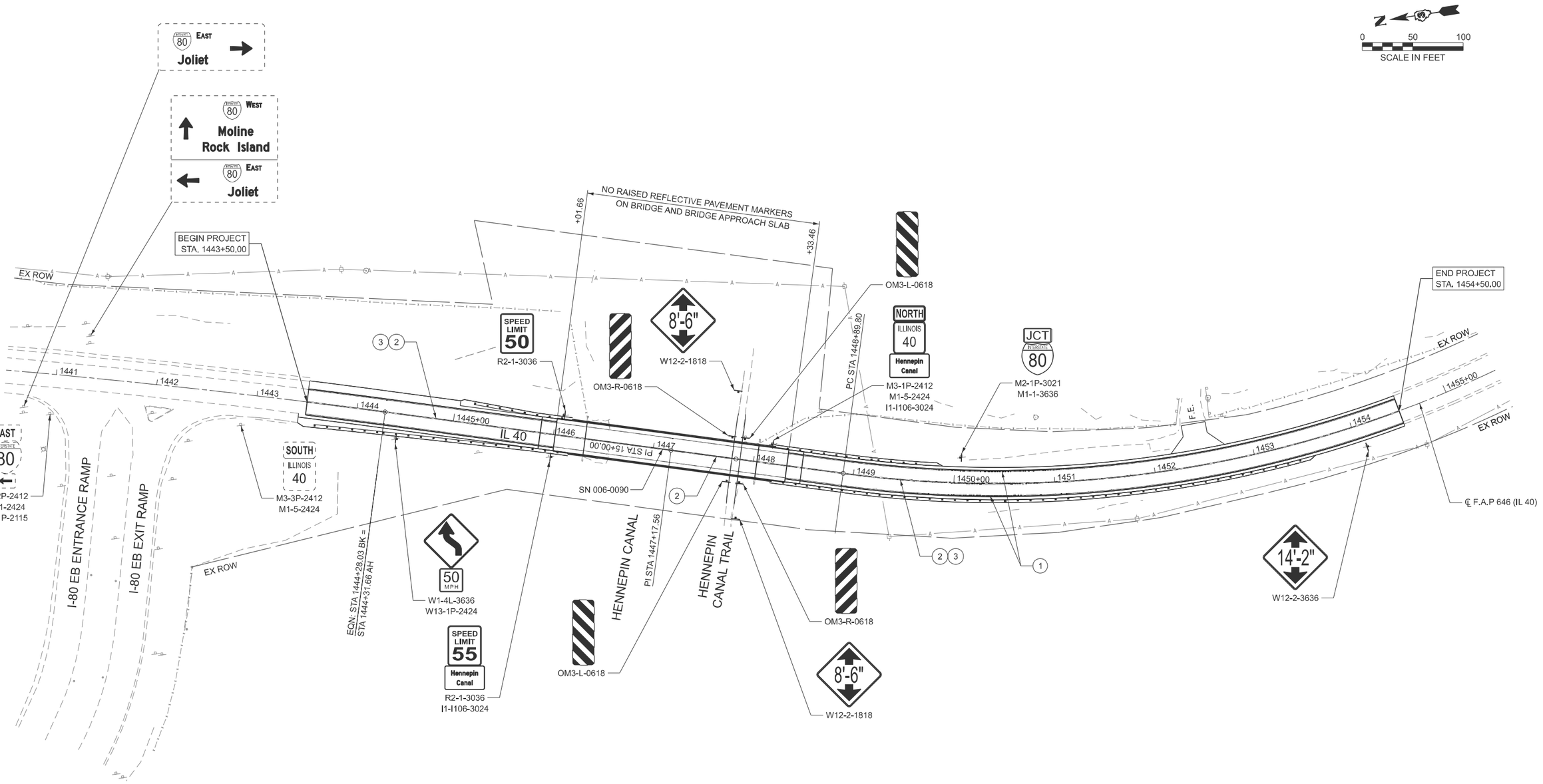
USER NAME = pgillespie	DESIGNED - JDB	REVISED -	
	DRAWN - PJG	REVISED -	
	CHECKED - RBB	REVISED -	
PLOT DATE = 1/13/2026	DATE - 1/14/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 40 OVER HENNEPIN CANAL
DETOUR PLAN

SCALE: NONE | SHEET 3 OF 3 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(104C-BR1)BR-1	BUREAU	62	20
		CONTRACT NO. 66M03		
	ILLINOIS FED. AID PROJECT			



PAVEMENT MARKING LEGEND

(1) MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (SOLID WHITE)

(2) MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW)

(3) RAISED REFLECTIVE PAVEMENT MARKER (80' C-C SPACING, TYP. AMBER)

EXISTING SIGN TO REMAIN

PROPOSED SIGN

NOTES:

1. SEE SIGNING SCHEDULE FOR SIGN REMOVALS.
2. SEE DISTRICT 3 DETAILS FOR PAVEMENT MARKING LAYOUT.

MODEL: PMK1
FILE NAME: O:\2022R3\IDOTCAD CONNECT\24006.07 IDOT D3 PTB 208-020 WO 07 IL 40 o' Hennepin Canal\CADD Data\CADSheets\D366M03-sht-PMK.dgn

EFK•Moen
Civil Engineering Design

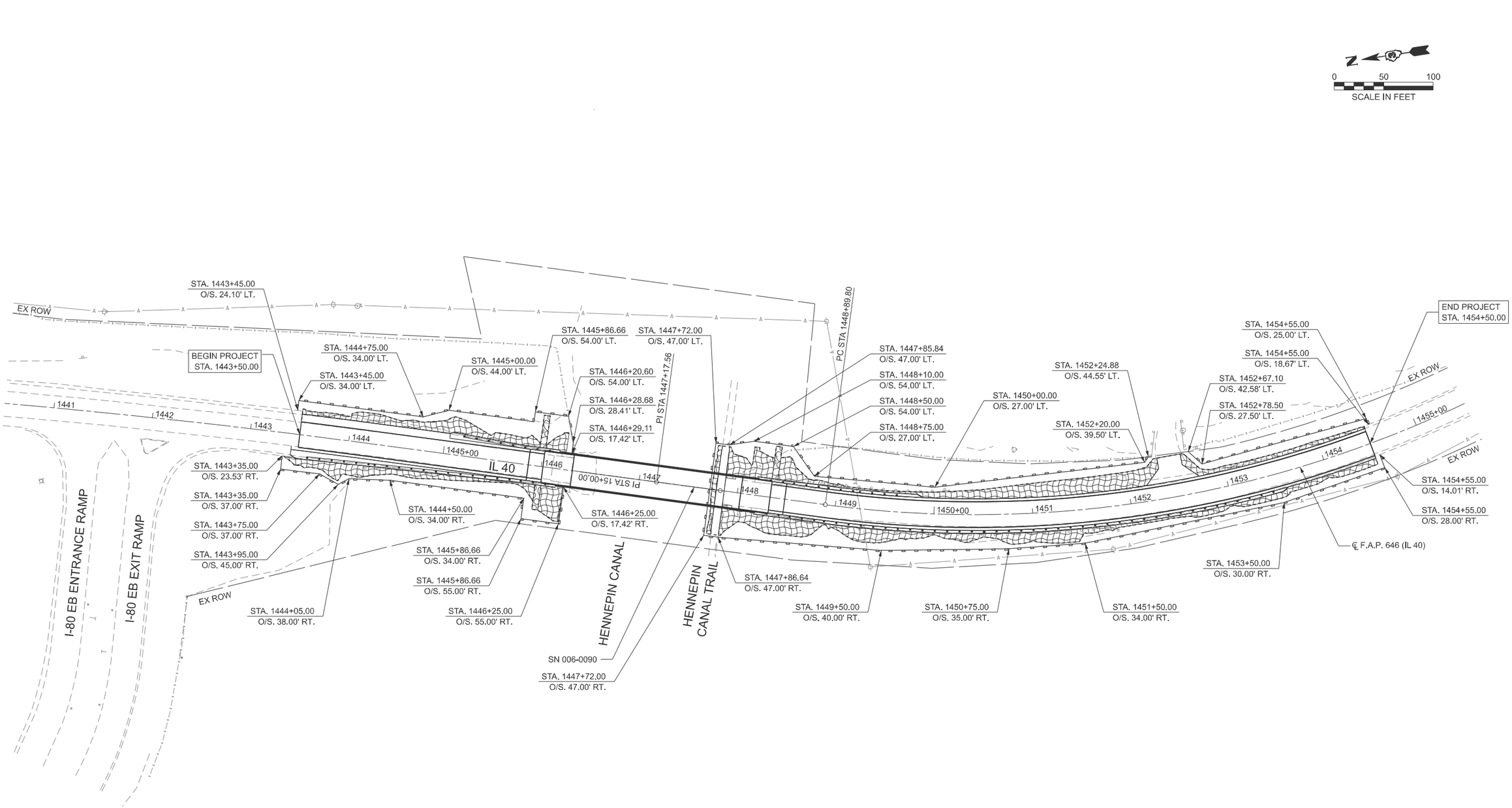
USER NAME = pgillespie	DESIGNED - JDB	REVISED -	
	DRAWN - ZJW	REVISED -	
	CHECKED - RBB	REVISED -	
PLOT DATE = 1/13/2026	DATE - 11/14/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 40 OVER HENNEPIN CANAL
SIGNING AND PAVEMENT MARKING PLAN

SCALE: 1"=50' | SHEET 1 OF 1 SHEETS | STA. 1440+50.0000 | TO STA. 1455+53.6251 R2

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(104C-BR1)BR-1	BUREAU	62	21
		CONTRACT NO. 66M03		
	ILLINOIS	FED. AID PROJECT		



EROSION CONTROL LEGEND

- LIMITS OF CONSTRUCTION
- PERIMETER EROSION BARRIER
- TEMPORARY EROSION CONTROL SEEDING
  EROSION CONTROL BLANKET

MODEL: Eros1
FILE NAME: O:\2022R3\IDOTCAD CONNECT\24006.07 IDOT D3 PTB 208-020 WO 07 IL40 o' Hennepin Canal\CADD Data\CADsheets\D366M03-sht-Eros.dgn

EFK•Moen
Civil Engineering Design

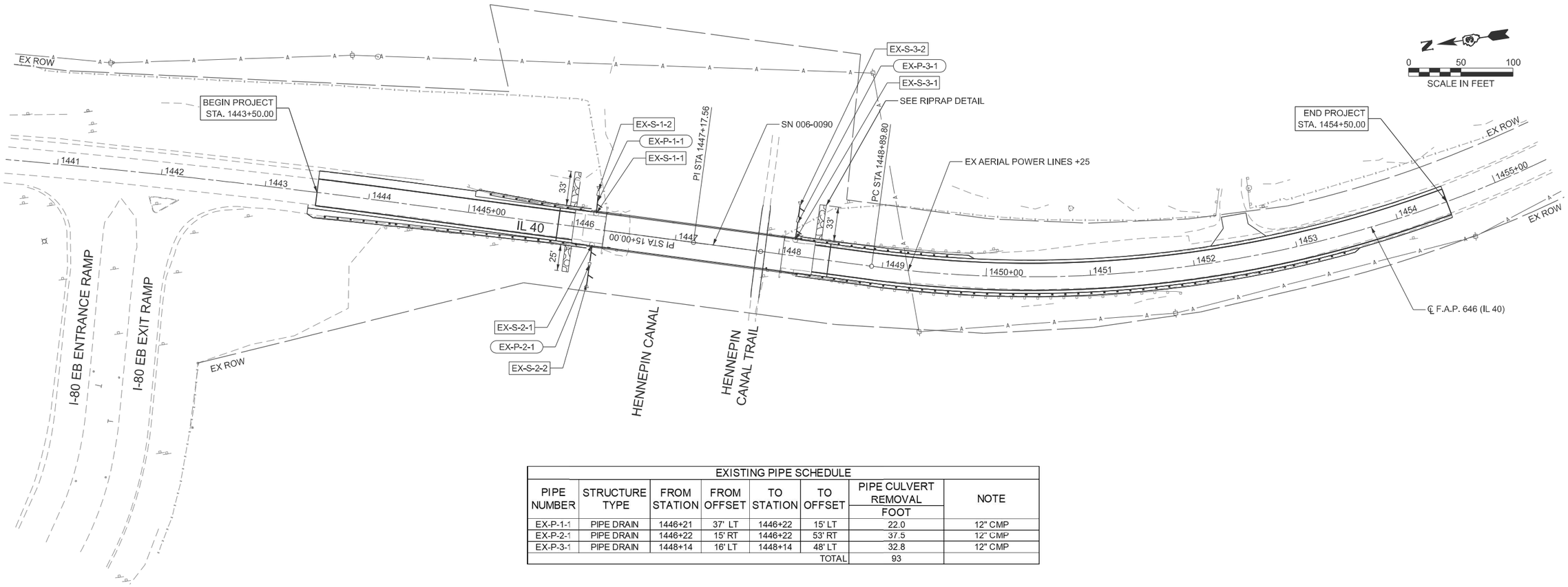
USER NAME = pgillespie	DESIGNED - JDB	REVISED -	
	DRAWN - ZJW	REVISED -	
	CHECKED - RBB	REVISED -	
PLOT DATE = 1/13/2026	DATE - 1/14/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 40 OVER HENNEPIN CANAL
EROSION AND SEDIMENT CONTROL PLAN

SCALE: 1"=50' | SHEET 1 OF 1 SHEETS | STA. 1440+50.0000 TO STA. 1455+53.6251 R2

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(104C-BR1)BR-1	BUREAU	62	22
		CONTRACT NO. 66M03		
	ILLINOIS	FED. AID PROJECT		



EXISTING PIPE SCHEDULE							
PIPE NUMBER	STRUCTURE TYPE	FROM STATION	FROM OFFSET	TO STATION	TO OFFSET	PIPE CULVERT REMOVAL	NOTE
						FOOT	
EX-P-1-1	PIPE DRAIN	1446+21	37' LT	1446+22	15' LT	22.0	12" CMP
EX-P-2-1	PIPE DRAIN	1446+22	15' RT	1446+22	53' RT	37.5	12" CMP
EX-P-3-1	PIPE DRAIN	1448+14	16' LT	1448+14	48' LT	32.8	12" CMP
					TOTAL	93	

EXISTING STRUCTURE SCHEDULE					
STRUCTURE NUMBER	STRUCTURE TYPE	STATION	OFFSET	REMOVING INLETS	REMOVE EXISTING FLARED END SECTION
				EACH	EACH
EX-S-1-1	INLET	1446+22	15' LT	1	
EX-S-1-2	END SECTION	1446+21	37' LT		1
EX-S-2-1	INLET	1446+22	15' RT	1	
EX-S-2-2	END SECTION	1446+22	53' RT		1
EX-S-3-1	INLET	1448+14	16' LT	1	
EX-S-3-2	END SECTION	1448+14	48' LT		1
			TOTAL	3	3

RIPRAP SCHEDULE					
FROM STATION	FROM OFFSET	TO STATION	TO OFFSET	STONE RIPRAP, CLASS A3	FILTER FABRIC
				SQ YD	SQ YD
1445+99.17	19.00' RT	1445+99.17	44.00' RT	16.7	16.7
1445+99.17	19.00' LT	1445+99.17	52.00' LT	22.0	22.0
1448+35.96	19.00' LT	1448+35.96	52.00' LT	22.0	22.0
			TOTAL	61	61

DRAINAGE LEGEND

- EX-S-X-X — EXISTING DRAINAGE STRUCTURE
- EX-P-X-X — EXISTING DRAINAGE PIPE
- STONE RIPRAP, CLASS A3 FILTER FABRIC
- LINEAR ITEM REMOVAL

MODEL: Drain01
FILE NAME: O:\2022R3\IDOTCAD CONNECT\24006.07 IDOT D3 PTB 209-020 WO 07 IL 40 o Hennepin Canal\CADD Data\CADSheets\D366M03-sht-Drainage.dgn

EFK•Moen
Civil Engineering Design

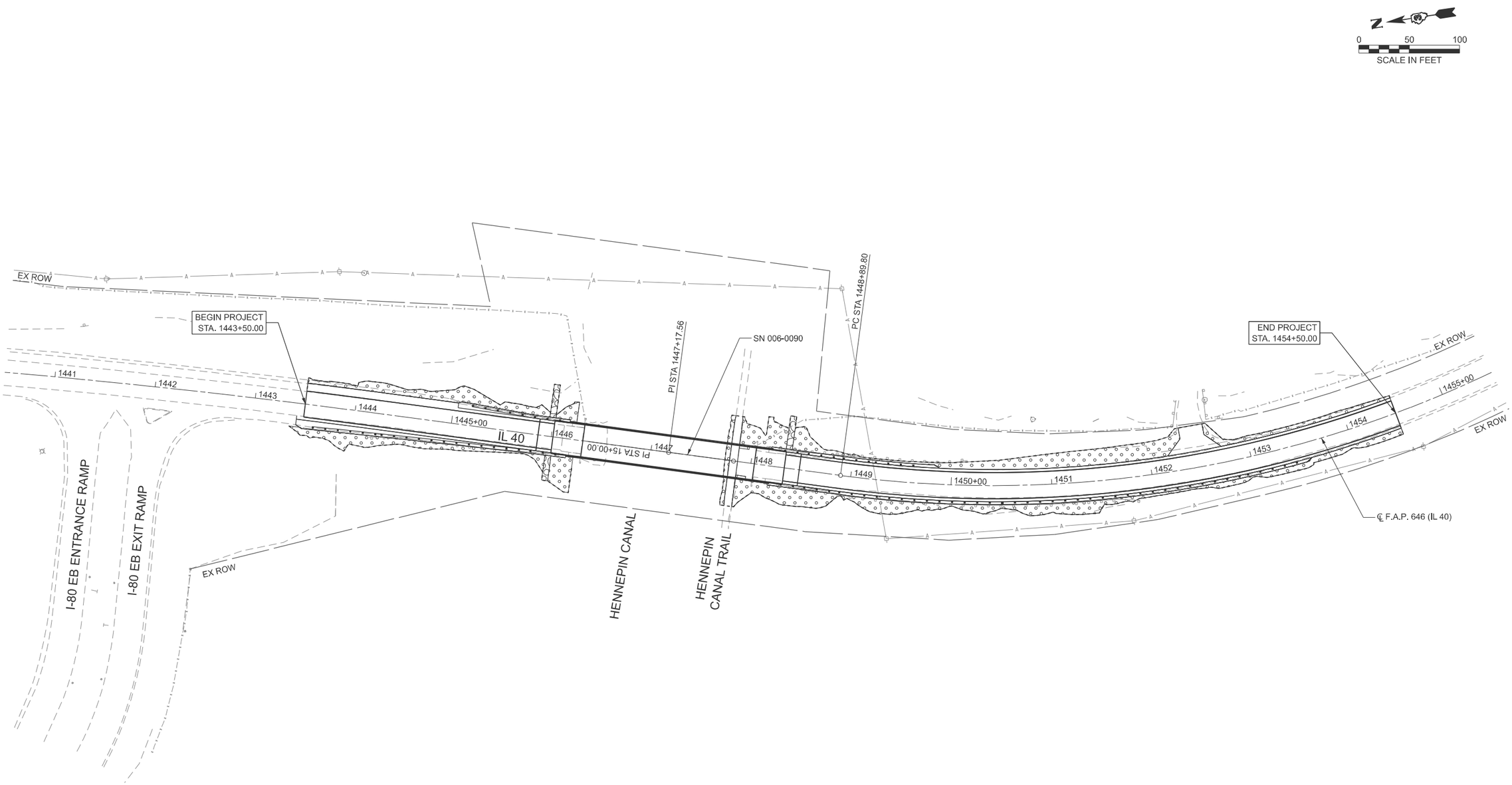
USER NAME = skierpiec	DESIGNED - JDB	REVISED -	
	DRAWN - ZJW	REVISED -	
	CHECKED - RBB	REVISED -	
PLOT DATE = 1/9/2026	DATE - 11/14/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 40 OVER HENNEPIN CANAL
DRAINAGE PLAN

SCALE: 1"=50' | SHEET 1 OF 1 SHEETS | STA. 1440+50.0000 TO STA. 1455+53.6251 R2

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(104C-BR1)BR-1	BUREAU	62	23
		CONTRACT NO. 66M03		
	ILLINOIS	FED. AID PROJECT		



LANDSCAPING LEGEND

TOPSOIL EXC & PLACE; 6" EXC & 4" PLACE
SEEDING, CL 2A
EROSION CONTROL BLANKET
NITROGEN FERT NUTR
PHOSPHOROUS FERT NUTR
POTASSIUM FERT NUTR

MODEL: Lndscp1
FILE NAME: O:\2022R3\IDOTCAD CONNECT\24006.07 IDOT D3 PTB 208-020 WO 07 IL 40 o' Hennepin Canal\CADD Data\CADsheets\D366M03-alt-Lndscp.dgn

EFK•Moen
Civil Engineering Design

USER NAME = skierpiec	DESIGNED - JDB	REVISED -	
	DRAWN - ZJW	REVISED -	
	CHECKED - RBB	REVISED -	
PLOT DATE = 1/9/2026	DATE - 11/14/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 40 OVER HENNEPIN CANAL
LANDSCAPING PLAN

SCALE: 1"=50' | SHEET 1 OF 1 SHEETS | STA. 1440+50.0000 | TO STA. 1455+53.6251 R2

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(104C-BR1)BR-1	BUREAU	62	24
		CONTRACT NO. 66M03		
		ILLINOIS FED. AID PROJECT		

Benchmark: CP1. Mag Nail in HMA Shoulder, NE Quadrant Guardrail End Section, N2428395.730 E1718353.492, Elev. 648.051

Existing Structure: S.N. 006-0090 built in 1933 and reconstructed in 1987 is a five span, continuous, W24x68 wide-flange steel beam bridge supported by precast concrete pile bents, multi-column piers, and open stub abutments. The structure length is 173'-9 1/2", measured from back-to-back of abutments. The out-to-out width of the bridge is 35'-2".

Traffic to be detoured during bridge reconstruction.

No salvage.

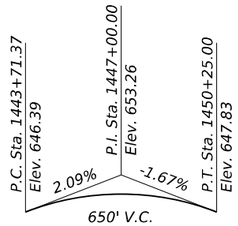
APPROVED
For Structural Adequacy Only
Engineer of Bridges & Structures

SE TRANSITION

Station	Transverse Slope			
	NB		SB	
	Shld.	Lane	Lane	Shld.
1447+61.80	-2.00%	-1.50%	-1.50%	-2.00%
1447+72.35	-2.00%	-1.50%	-1.50%	-1.50%
1448+36.46	-2.00%	-1.50%	1.50%	1.50%

SCOPE OF WORK

1. Remove and replace existing concrete deck and approach slabs.
2. Reconfigure existing abutments and wingwalls to semi-integral abutments.
3. Clean and paint abutment bearings and beam ends.
4. Perform substructure repairs.
5. Use controlled low-strength material to mitigate undermining at South Abutment.
6. Replace missing riprap at South Abutment.
7. Add shear studs to beams in negative moment region over piers.



PROFILE GRADE

(Along ℄ Roadway)

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges, 17th Edition

2006 Seismic Retrofitting Manual for Highway Structures: Part 1 - Bridges (FHWA-HRT-06-032)

DESIGN STRESSES

FIELD UNITS (New Const.)
f'c = 4,000 psi (Superstructure)
fy = 60,000 psi (Reinforcement)

FIELD UNITS (Exist. Const.)
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (AASHTO M-222)

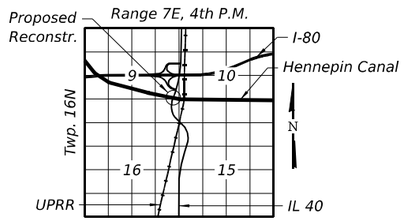
LOADING HS20-44

Allow 25#/sq. ft. for future wearing surface.

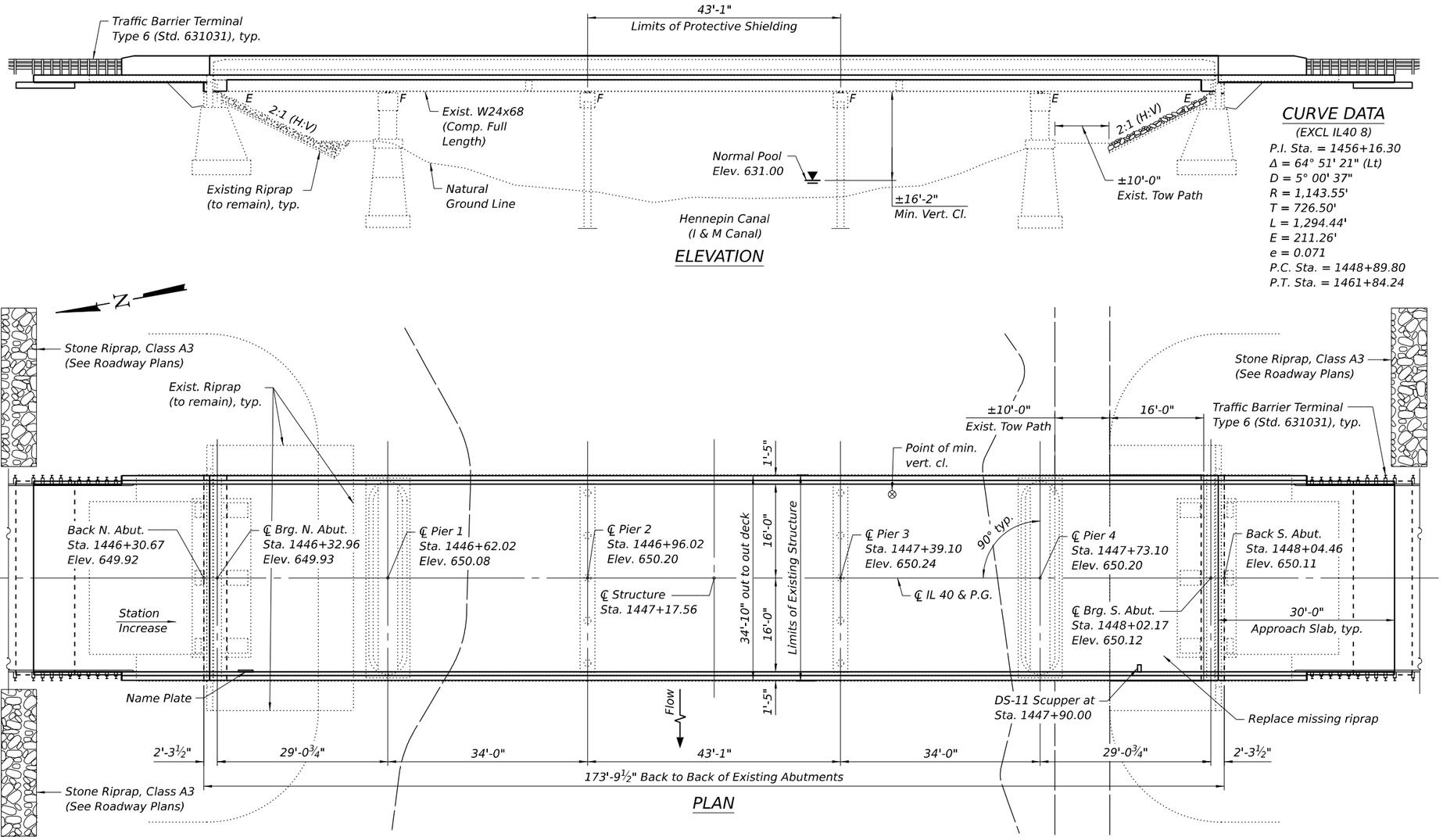
SEISMIC DATA

Seismic Retrofit Category (SRC) = A
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.095g
Design Spectral Acceleration at 0.2 sec. (S_{DS}) = 0.151g
Soil Site Class = D
Performance Level = PL1

Signed: Alex C. Benz
Date: 2/5/2026
License Expires: 11/30/2026



LOCATION SKETCH



CURVE DATA

(EXCL IL40 8)
P.I. Sta. = 1456+16.30
Δ = 64° 51' 21" (Lt)
D = 5° 00' 37"
R = 1,143.55'
T = 726.50'
L = 1,294.44'
E = 211.26'
e = 0.071
P.C. Sta. = 1448+89.80
P.T. Sta. = 1461+84.24

GENERAL PLAN AND ELEVATION
ILLINOIS RTE. 40 OVER HENNEPIN CANAL
PUBLIC WATERS
F.A.P. RTE. 646
SEC. (104C-BR1)BR-1
BUREAU COUNTY
STATION 1447+17.56
STRUCTURE NO. 006-0090

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NUMBER 006-0090
SHEET 1 OF 19 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(104C-BR1)BR-1	BUREAU	62	25
		CONTRACT NO. 66M03		
		ILLINOIS	FED. AID PROJECT	

GENERAL NOTES:

1. No field welding is permitted except as specified in the contract documents.

2. Reinforcement bars designated (E) shall be epoxy coated.

3. Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose detrimental foreign material shall be removed from the surfaces in contact with concrete (SSPC - SP3 standards). Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be paid for according to Article 109.04 of the Standard Specifications.

   As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer. Any cracks that cannot be removed by grinding 1/4 in. deep shall be identified and reported to the Bureau of Bridges & Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.

4. The finishing machine rails shall be placed on the top of the top flange of the exterior beams within the deck pour. Beam blocks shall be placed between beams at all tie location in each bay for the full width of the deck pour.

5. The Contractor shall obtain a construction permit from the Illinois Department of Natural Resources (IDNR), Office of Water Resources for any temporary construction activity placed in the water except cofferdams. This shall include the placement of material for run-arounds, causeways, etc. Any permit application by the Contractor shall refer to the IDNR 3704 Floodway Construction permit number allowing permanent construction as shown in the contract plans.

6. Plan dimensions and details relative to the existing structure have been taken from existing plans and 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 furnished at the unit price bid for the work.

7. The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

8. Cleaning and painting of the existing structural steel shall be specified in the special provision for "Cleaning and Painting Existing Steel Structures". All beams, bearings and other structural steel within 5 ft. minimum or as required to repair damaged coatings (measured along the beam) of either side of deck joints shall be cleaned per Near White Blast Cleaning - SSPC - SP10. The exterior surfaces and bottom of the bottom flange of the fascia beams shall be cleaned per Commercial Grade Power Tool Cleaning - SSPC - SP15.

   The designated areas cleaned per Near White Blast Cleaning and per Commercial Grade Power Tool Cleaning shall be painted according to the requirement of Organic Zinc Rich Primer/Epoxy/Urethane paint system. The color of the final finish coat shall be Reddish Brown, Munsell No. 2.5YR 3/4.

9. Contractor to reduce or minimize and clean any staining or slurry on beams from the deck removal efforts.

INDEX OF SHEETS

1. General Plan and Elevation
2. General Data
3. Top of Slab Elevations
4. Top of Slab Elevations
5. Top of Slab Elevations
6. Top of Approach Slab Elevations
7. Top of Approach Slab Elevations
8. Superstructure
9. Superstructure Details
10. Diaphragm Details
11. Bridge Approach Slab Details
12. Bridge Approach Slab Details
13. Drainage Scupper, DS-11
14. Structural Steel
15. North Abutment Removal and Repairs
16. South Abutment Removal and Repairs
17. Pier 1 Repairs
18. Pier 4 Repairs
19. Concrete Parapet Slipforming Option

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STATE OF ILLINOIS
FAP RTE. 646 SEC. (104C-BR1)ES
LOADING HS20-44
STR. NO. 006-0090

NAME PLATE

See Std. 515001

Existing Name Plate shall be cleaned and relocated next to the new Name Plate. Cost included with Name Plates.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq. Yd.		63	63
Concrete Removal	Cu. Yd.		9.5	9.5
Removal of Existing Concrete Deck	Each	1		1
Protective Shield	Sq. Yd.	168		168
Structure Excavation	Cu. Yd.		35	35
Concrete Structures	Cu. Yd.		20.4	20.4
Concrete Superstructure	Cu. Yd.	236.3		236.3
Bridge Deck Grooving	Sq. Yd.	773		773
Protective Coat	Sq. Yd.	1014		1014
Concrete Superstructure (Approach Slab)	Cu. Yd.	94.8		94.8
Stud Shear Connectors	Each	1,350		1,350
Cleaning and Painting Steel Bridge No. 1	L Sum	1		1
Reinforcement Bars, Epoxy Coated	Pound	94,490		94,490
Name Plates	Each	1		1
Structural Repair of Concrete (Depth Equal to or Less Than 5")	Sq. Ft.		22	22
Granular Backfill for Structures	Cu. Yd.		63	63
Epoxy Crack Injection	Foot		50	50
Geocomposite Wall Drain	Sq. Yd.		41	41
Controlled Low-Strength Material	Cu. Yd.		10	10
Pipe Underdrains for Structures 4"	Foot		117	117
Bar Terminators	Each	116		116
Drainage Scuppers, DS-11	Each	1		1
Containment and Disposal of Lead Paint Cleaning Residues No. 1	L Sum	1		1

DESIGN SCOUR ELEVATION TABLE

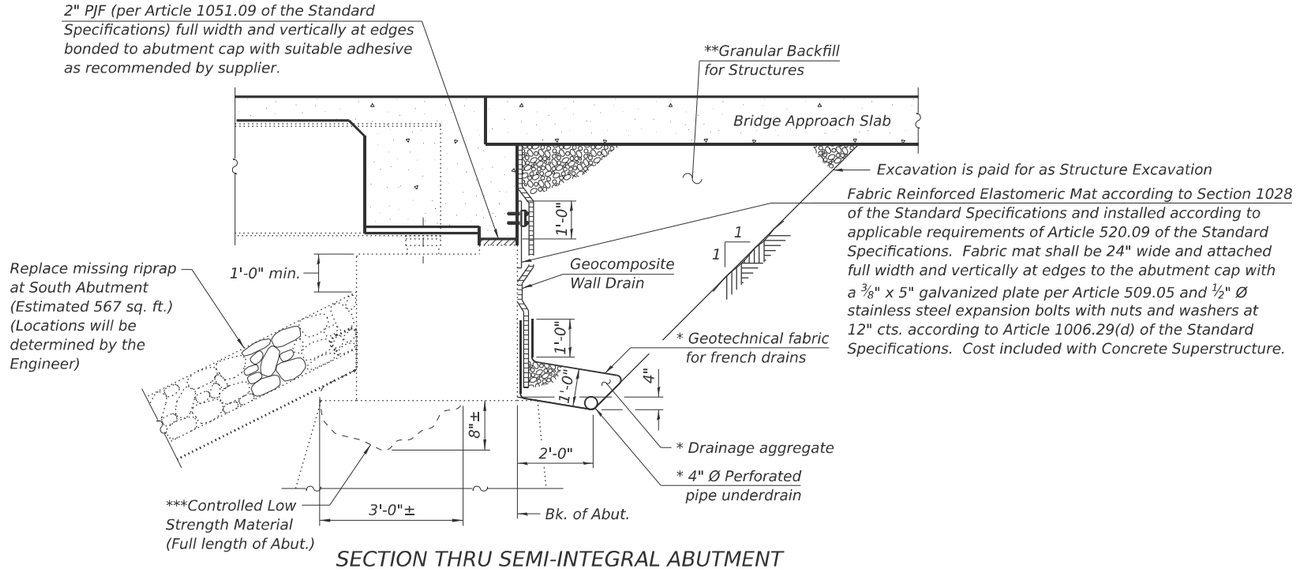
Event / Limit State	Design Scour Elevations (ft.)						Item 113
	N. Abut.	Pier 1	Pier 2	Pier 3	Pier 4	S. Abut.	
Q100	644.10	627.35	627.35	627.35	627.35	643.92	8
Q200	644.10	627.35	627.35	627.35	627.35	643.92	
Design	644.10	627.35	627.35	627.35	627.35	643.92	
Check	644.10	627.35	627.35	627.35	627.35	643.92	

WATERWAY INFORMATION

Drainage Area = N/A — Low Grade Elev. 643.32 @ Sta. 1441+00

Flood	Freq. Yr.	Q C.F.S.	Opening Ft² Exist.	Opening Ft² Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	--	--	--	--	--	--	--	--	--
Hydraulic Design	N/A	N/A	334	334	631.9	--	--	631.9	631.9
Base	--	--	--	--	--	--	--	--	--
Scour Check	--	--	--	--	--	--	--	--	--
Max. Calc.	--	--	--	--	--	--	--	--	--
Overtopping	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

10 Year Velocity Existing = N/A — 10 Year Velocity Proposed = N/A



SECTION THRU SEMI-INTEGRAL ABUTMENT

* Included in the cost of Pipe Underdrains for Structures.
** Granular Backfill for Structures shall follow Standard Specification 586 except the course aggregate shall be grade CA 7, CA 11, or CA 14.
*** CLSM shall be used to fill all voids under abutments as determined by the Engineer.

Note:
All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

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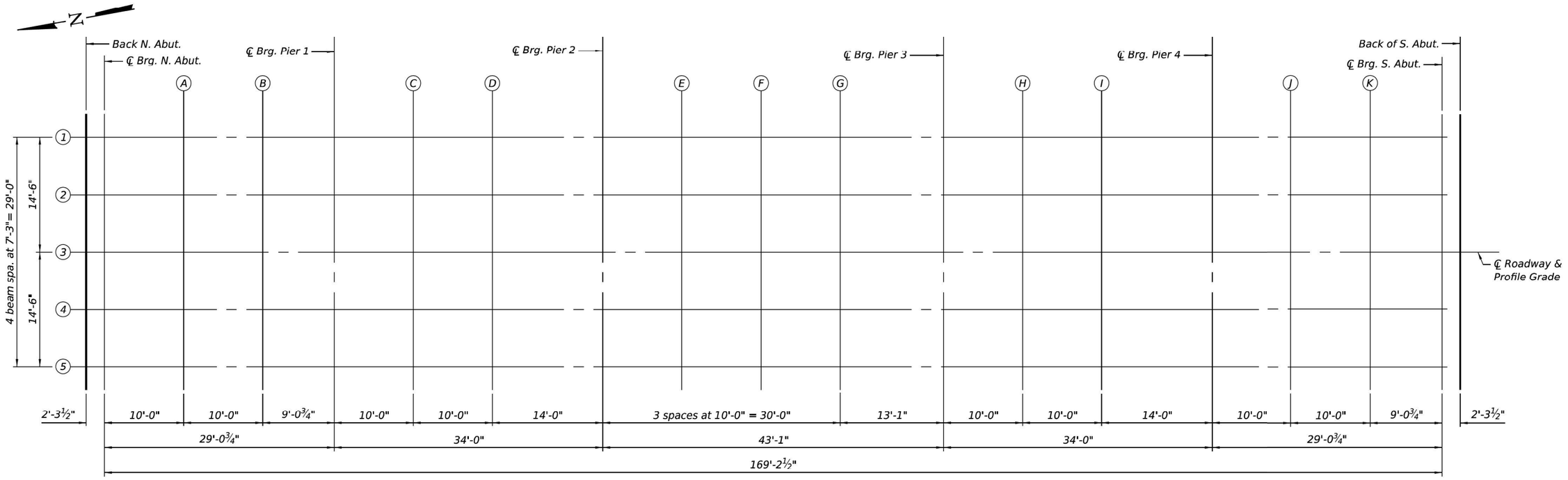
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NUMBER 006-0090
SHEET 2 OF 19 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(104C-BR1)BR-1	BUREAU	62	26
		CONTRACT NO. 66M03		
		ILLINOIS	FED. AID PROJECT	



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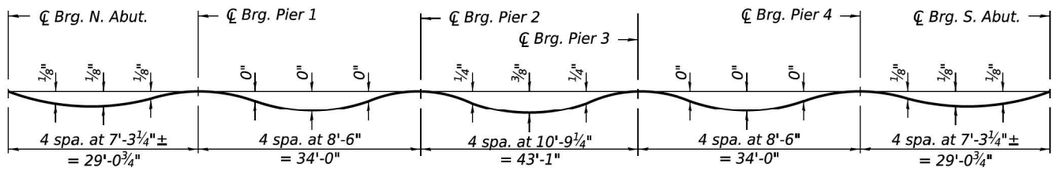
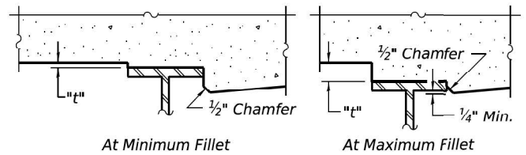


DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on Sheet 4 and 5 of 19.



At Minimum Fillet At Maximum Fillet

To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown above. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on Sheet 4 and 5 of 19, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NUMBER 006-0090
SHEET 3 OF 19 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(104C-BR1)BR-1	BUREAU	62	27
		CONTRACT NO. 66M03		
	ILLINOIS	FED. AID PROJECT		

Beam 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back N. Abut.	1446+30.67	-14.50	649.69	649.69
℄ Brg. N. Abut.	1446+32.96	-14.50	649.71	649.71
A	1446+42.96	-14.50	649.76	649.77
B	1446+52.96	-14.50	649.81	649.82
℄ Brg. Pier 1	1446+62.02	-14.50	649.86	649.86
C	1446+72.02	-14.50	649.90	649.90
D	1446+82.02	-14.50	649.93	649.93
℄ Brg. Pier 2	1446+96.02	-14.50	649.97	649.97
E	1447+06.02	-14.50	649.99	650.01
F	1447+16.02	-14.50	650.00	650.03
G	1447+26.02	-14.50	650.01	650.04
℄ Brg. Pier 3	1447+39.10	-14.50	650.02	650.02
H	1447+49.10	-14.50	650.01	650.01
I	1447+59.10	-14.50	650.00	650.01
℄ Brg. Pier 4	1447+73.10	-14.50	649.98	649.98
J	1447+83.10	-14.50	649.95	649.96
K	1447+93.10	-14.50	649.92	649.94
℄ Brg. S. Abut.	1448+02.17	-14.50	649.89	649.89
Back S. Abut.	1448+04.46	-14.50	649.88	649.88

Beam 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back N. Abut.	1446+30.67	-7.25	649.81	649.81
℄ Brg. N. Abut.	1446+32.96	-7.25	649.83	649.83
A	1446+42.96	-7.25	649.88	649.89
B	1446+52.96	-7.25	649.94	649.94
℄ Brg. Pier 1	1446+62.02	-7.25	649.98	649.98
C	1446+72.02	-7.25	650.02	650.02
D	1446+82.02	-7.25	650.05	650.05
℄ Brg. Pier 2	1446+96.02	-7.25	650.09	650.09
E	1447+06.02	-7.25	650.11	650.13
F	1447+16.02	-7.25	650.13	650.16
G	1447+26.02	-7.25	650.13	650.16
℄ Brg. Pier 3	1447+39.10	-7.25	650.14	650.14
H	1447+49.10	-7.25	650.13	650.13
I	1447+59.10	-7.25	650.12	650.13
℄ Brg. Pier 4	1447+73.10	-7.25	650.10	650.10
J	1447+83.10	-7.25	650.08	650.08
K	1447+93.10	-7.25	650.05	650.06
℄ Brg. S. Abut.	1448+02.17	-7.25	650.01	650.01
Back S. Abut.	1448+04.46	-7.25	650.00	650.00

Beam 3, ℄ Roadway & Profile Grade

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back N. Abut.	1446+30.67	0.00	649.92	649.92
℄ Brg. N. Abut.	1446+32.96	0.00	649.94	649.94
A	1446+42.96	0.00	649.99	650.00
B	1446+52.96	0.00	650.04	650.05
℄ Brg. Pier 1	1446+62.02	0.00	650.09	650.09
C	1446+72.02	0.00	650.13	650.13
D	1446+82.02	0.00	650.16	650.16
℄ Brg. Pier 2	1446+96.02	0.00	650.20	650.20
E	1447+06.02	0.00	650.22	650.24
F	1447+16.02	0.00	650.23	650.26
G	1447+26.02	0.00	650.24	650.27
℄ Brg. Pier 3	1447+39.10	0.00	650.25	650.25
H	1447+49.10	0.00	650.24	650.24
I	1447+59.10	0.00	650.23	650.24
℄ Brg. Pier 4	1447+73.10	0.00	650.21	650.21
J	1447+83.10	0.00	650.18	650.19
K	1447+93.10	0.00	650.15	650.17
℄ Brg. S. Abut.	1448+02.17	0.00	650.12	650.12
Back S. Abut.	1448+04.46	0.00	650.11	650.11

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NUMBER 006-0090
SHEET 4 OF 19 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(104C-BR1)BR-1	BUREAU	62	28
		CONTRACT NO. 66M03		
	ILLINOIS	FED. AID PROJECT		

Beam 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back N. Abut.	1446+30.67	7.25	649.81	649.81
℄ Brg. N. Abut.	1446+32.96	7.25	649.83	649.83
A	1446+42.96	7.25	649.88	649.89
B	1446+52.96	7.25	649.94	649.94
℄ Brg. Pier 1	1446+62.02	7.25	649.98	649.98
C	1446+72.02	7.25	650.02	650.02
D	1446+82.02	7.25	650.05	650.05
℄ Brg. Pier 2	1446+96.02	7.25	650.09	650.09
E	1447+06.02	7.25	650.11	650.13
F	1447+16.02	7.25	650.13	650.16
G	1447+26.02	7.25	650.13	650.16
℄ Brg. Pier 3	1447+39.10	7.25	650.14	650.14
H	1447+49.10	7.25	650.13	650.13
I	1447+59.10	7.25	650.12	650.13
℄ Brg. Pier 4	1447+73.10	7.25	650.10	650.10
J	1447+83.10	7.25	650.11	650.12
K	1447+93.10	7.25	650.12	650.13
℄ Brg. S. Abut.	1448+02.17	7.25	650.11	650.11
Back S. Abut.	1448+04.46	7.25	650.11	650.11

Beam 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back N. Abut.	1446+30.67	14.50	649.69	649.69
℄ Brg. N. Abut.	1446+32.96	14.50	649.71	649.71
A	1446+42.96	14.50	649.76	649.77
B	1446+52.96	14.50	649.81	649.82
℄ Brg. Pier 1	1446+62.02	14.50	649.86	649.86
C	1446+72.02	14.50	649.90	649.90
D	1446+82.02	14.50	649.93	649.93
℄ Brg. Pier 2	1446+96.02	14.50	649.97	649.97
E	1447+06.02	14.50	649.99	650.01
F	1447+16.02	14.50	650.00	650.03
G	1447+26.02	14.50	650.01	650.04
℄ Brg. Pier 3	1447+39.10	14.50	650.02	650.02
H	1447+49.10	14.50	650.01	650.01
I	1447+59.10	14.50	650.00	650.01
℄ Brg. Pier 4	1447+73.10	14.50	650.00	650.00
J	1447+83.10	14.50	650.04	650.05
K	1447+93.10	14.50	650.08	650.09
℄ Brg. S. Abut.	1448+02.17	14.50	650.11	650.11
Back S. Abut.	1448+04.46	14.50	650.11	650.11

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NUMBER 006-0090
SHEET 5 OF 19 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(104C-BR1)BR-1	BUREAU	62	29
		CONTRACT NO. 66M03		
	ILLINOIS	FED. AID PROJECT		

East Edge of Shoulder

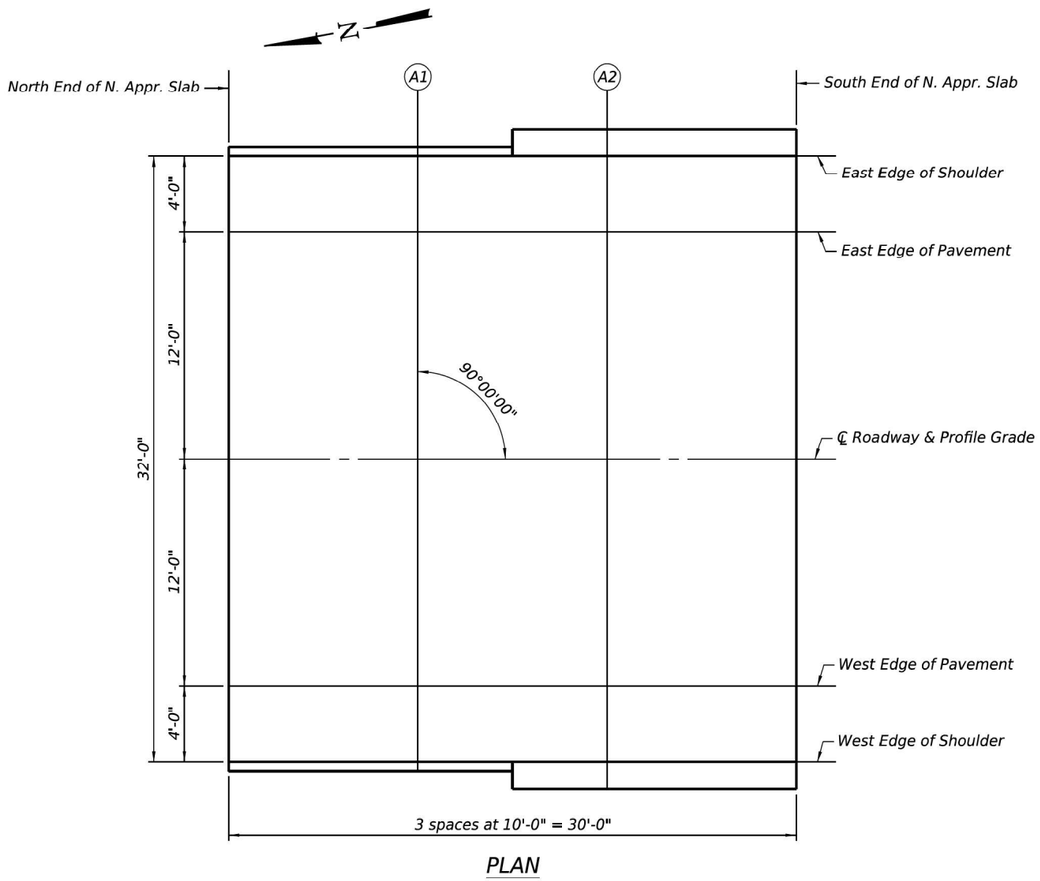
Location	Station	Offset	Theoretical Grade Elevations
North End of N. Appr. Slab	1446+01.67	-16.00	649.46
A1	1446+11.67	-16.00	649.54
A2	1446+21.67	-16.00	649.60
South End of N. Appr. Slab	1446+31.67	-16.00	649.67

East Edge of Pavement

Location	Station	Offset	Theoretical Grade Elevations
North End of N. Appr. Slab	1446+01.67	-12.00	649.54
A1	1446+11.67	-12.00	649.62
A2	1446+21.67	-12.00	649.68
South End of N. Appr. Slab	1446+31.67	-12.00	649.75

℄ Roadway & Profile Grade

Location	Station	Offset	Theoretical Grade Elevations
North End of N. Appr. Slab	1446+01.67	0.00	649.72
A1	1446+11.67	0.00	649.80
A2	1446+21.67	0.00	649.86
South End of N. Appr. Slab	1446+31.67	0.00	649.93



PLAN

West Edge of Pavement

Location	Station	Offset	Theoretical Grade Elevations
North End of N. Appr. Slab	1446+01.67	12.00	649.54
A1	1446+11.67	12.00	649.62
A2	1446+21.67	12.00	649.68
South End of N. Appr. Slab	1446+31.67	12.00	649.75

West Edge of Shoulder

Location	Station	Offset	Theoretical Grade Elevations
North End of N. Appr. Slab	1446+01.67	16.00	649.46
A1	1446+11.67	16.00	649.54
A2	1446+21.67	16.00	649.60
South End of N. Appr. Slab	1446+31.67	16.00	649.67

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5-15-2023

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF APPROACH SLAB ELEVATIONS
STRUCTURE NUMBER 006-0090

SHEET 6 OF 19 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(104C-BR1)BR-1	BUREAU	62	30
		CONTRACT NO. 66M03		
	ILLINOIS	FED. AID PROJECT		

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East Edge of Shoulder

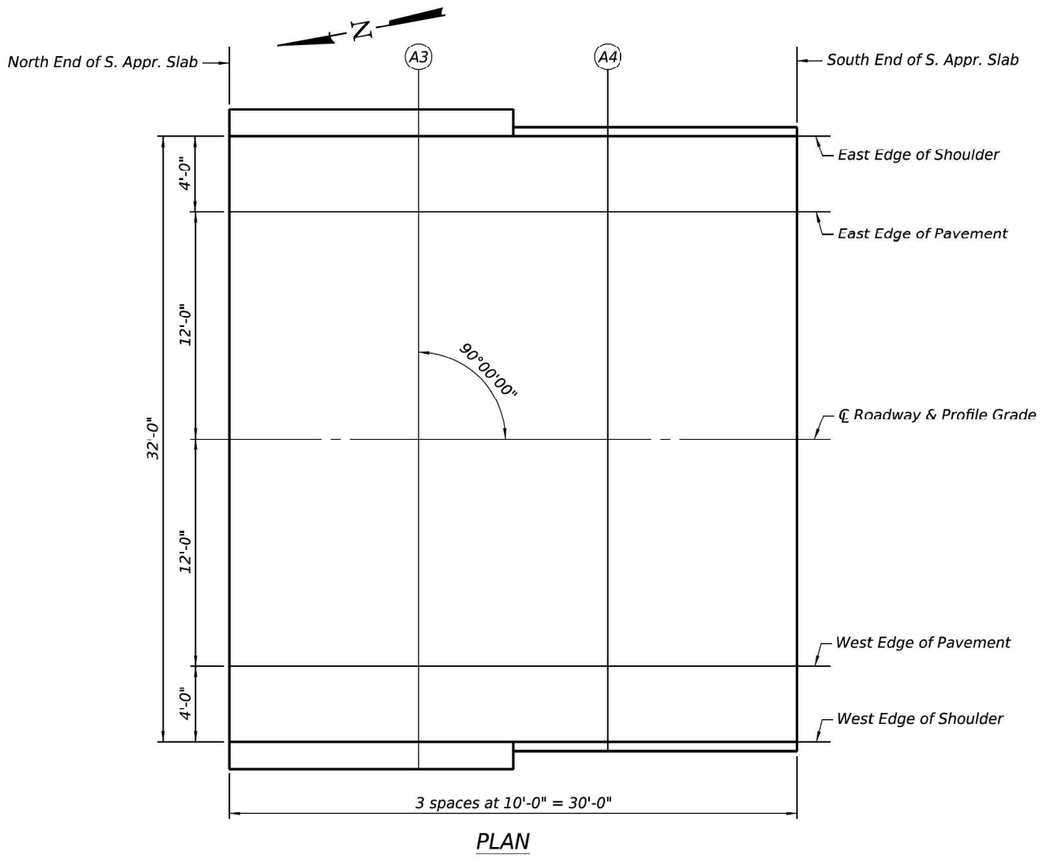
Location	Station	Offset	Theoretical Grade Elevations
North End of S. Appr. Slab	1448+03.46	-16.00	649.86
A3	1448+13.46	-16.00	649.82
A4	1448+23.46	-16.00	649.77
South End of S. Appr. Slab	1448+33.46	-16.00	649.71

East Edge of Pavement

Location	Station	Offset	Theoretical Grade Elevations
North End of S. Appr. Slab	1448+03.46	-12.00	649.94
A3	1448+13.46	-12.00	649.90
A4	1448+23.46	-12.00	649.85
South End of S. Appr. Slab	1448+33.46	-12.00	649.79

℄ Roadway & Profile Grade

Location	Station	Offset	Theoretical Grade Elevations
North End of S. Appr. Slab	1448+03.46	0.00	650.12
A3	1448+13.46	0.00	650.08
A4	1448+23.46	0.00	650.03
South End of S. Appr. Slab	1448+33.46	0.00	649.97



PLAN

West Edge of Pavement

Location	Station	Offset	Theoretical Grade Elevations
North End of S. Appr. Slab	1448+03.46	12.00	650.11
A3	1448+13.46	12.00	650.13
A4	1448+23.46	12.00	650.14
South End of S. Appr. Slab	1448+33.46	12.00	650.14

West Edge of Shoulder

Location	Station	Offset	Theoretical Grade Elevations
North End of S. Appr. Slab	1448+03.46	16.00	650.11
A3	1448+13.46	16.00	650.14
A4	1448+23.46	16.00	650.17
South End of S. Appr. Slab	1448+33.46	16.00	650.19

E-AS 5-15-2023

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF APPROACH SLAB ELEVATIONS
STRUCTURE NUMBER 006-0090
SHEET 7 OF 19 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(104C-BR1)BR-1	BUREAU	62	31
		CONTRACT NO. 66M03		
	ILLINOIS	FED. AID PROJECT		

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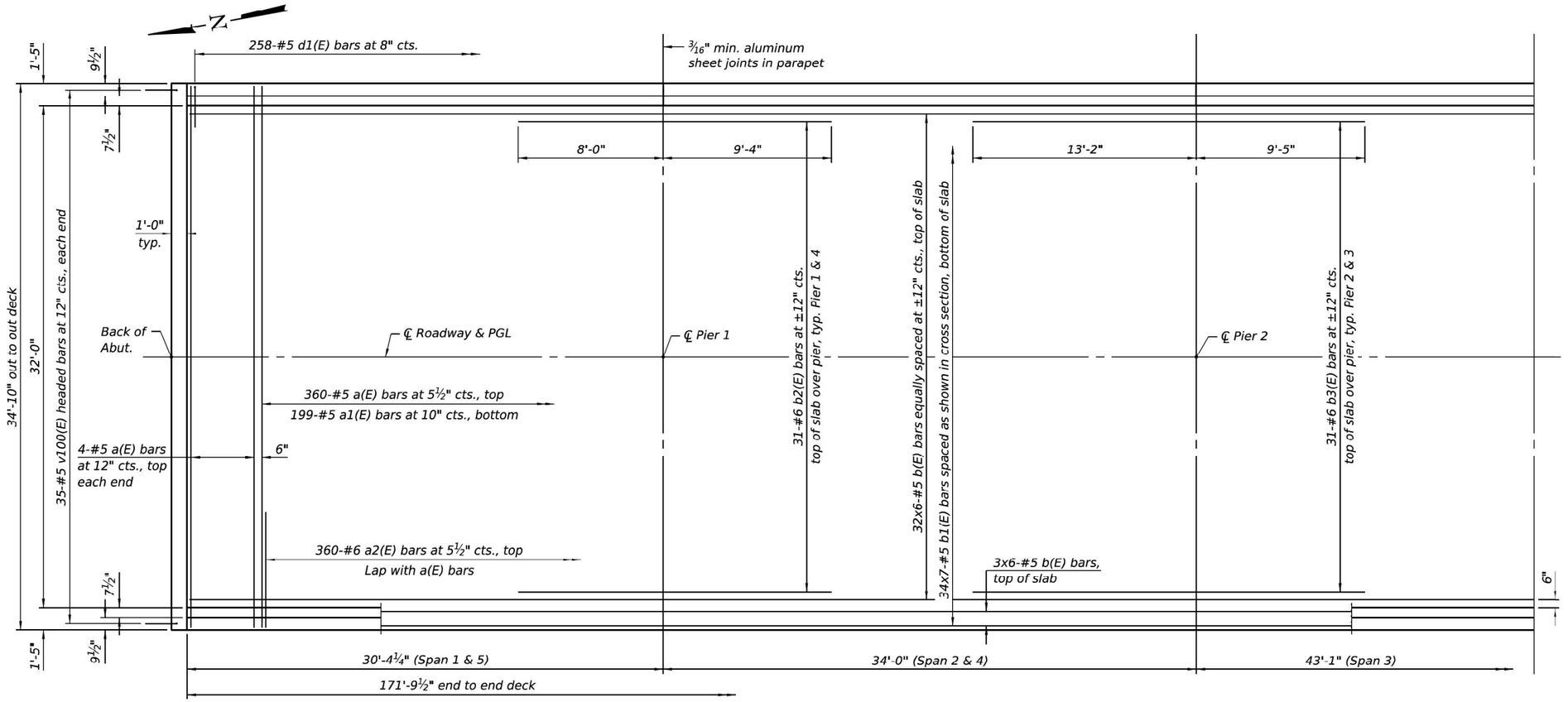
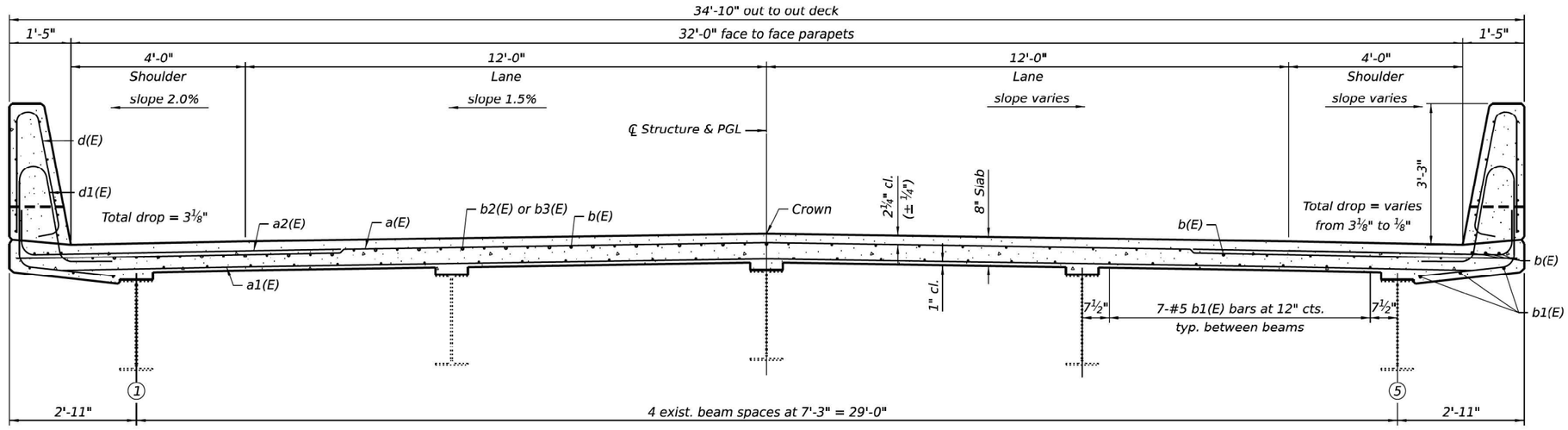


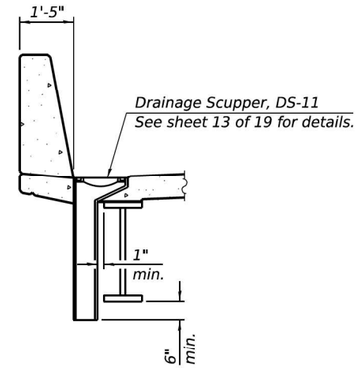
PARTIAL PLAN



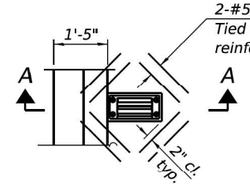
NEAR PIER NEAR MIDSPAN

CROSS SECTION
(Looking South)

MINIMUM BAR LAP
#5 bar = 3'-10"



SECTION A-A



PLAN

Note:
Cut longitudinal reinforcement to clear drainage scuppers.

SUPERELEVATION TRANSITION

Station	Lane	Shoulder	Total Drop
1447+61.80	1.50%	2.00%	3⅛"
1447+72.35	1.50%	1.50%	2⅞"
1448+03.46	0.03%	0.03%	⅛"

Notes:
See sheet 9 of 19 for superstructure details and Bill of Material.
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.

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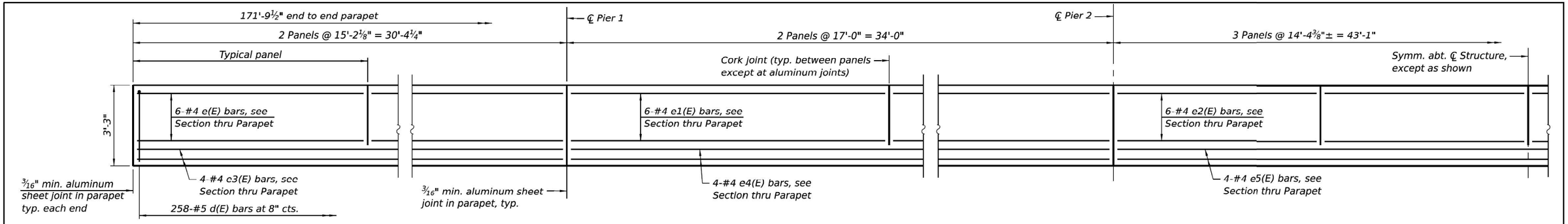
	CHECKED - ACB	REVISED -	
PLOT SCALE =	DRAWN - KRH	REVISED -	
PLOT DATE = 1/8/2026	CHECKED - ACB	REVISED -	

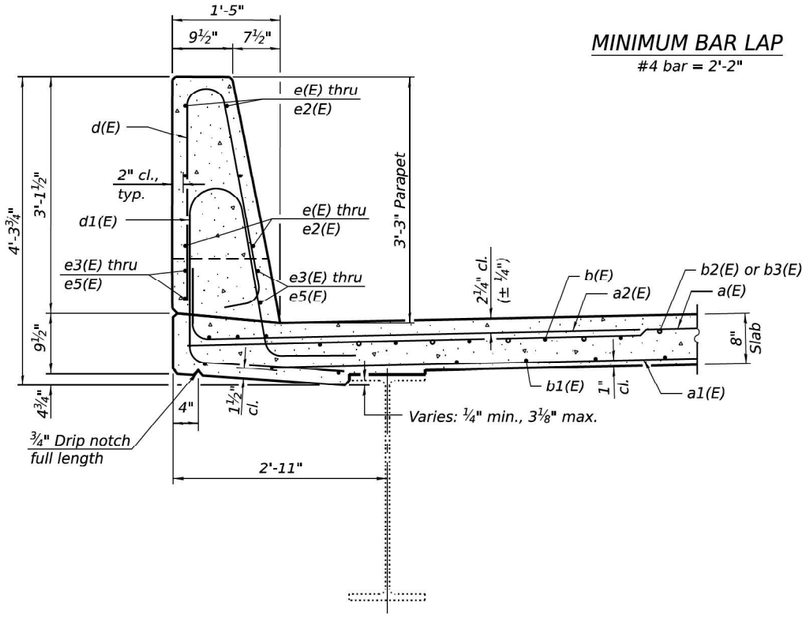
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE NUMBER 006-0090
SHEET 8 OF 19 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(104C-BR1)BR-1	BUREAU	62	32
		CONTRACT NO. 66M03		
		ILLINOIS	FED. AID PROJECT	



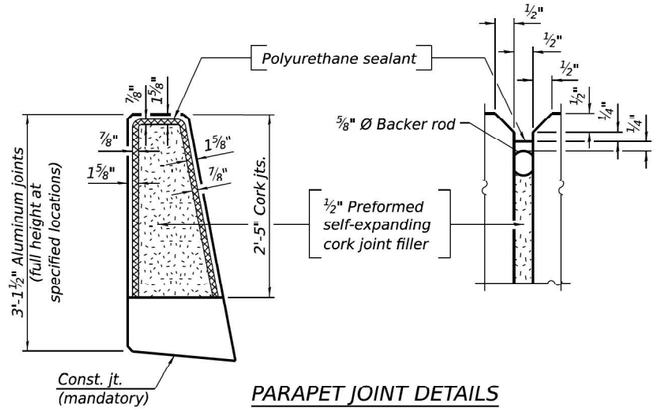
INSIDE ELEVATION OF PARAPET



MINIMUM BAR LAP

#4 bar = 2'-2"

SECTION THRU PARAPET



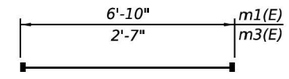
PARAPET JOINT DETAILS

Notes:

The 3/16" min. aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated with 5 mils of either bitumen paint or epoxy paint to minimize reaction with wet concrete. Cost included with Concrete Superstructure.

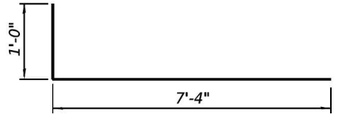
The polyurethane sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.

Bar terminators, paid for separately. See Total Bill of Material.

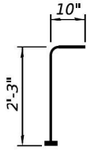


BAR m1(E) & m3(E)

(Headed. 48 - #6 Bar terminators)

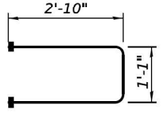


BAR a2(E)



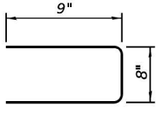
BAR v100(E)

(Headed. 70 - #5 Bar terminators)

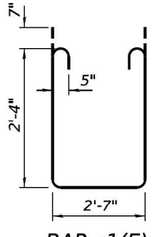


BAR s(E)

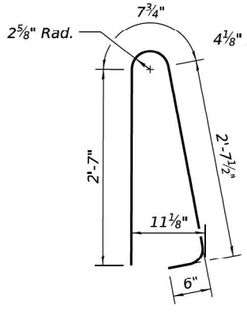
(Headed. 68 - #5 Bar terminators)



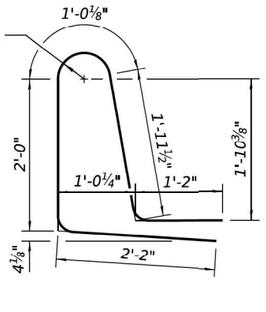
BAR u(E)



BAR s1(E)



BAR d(E)



BAR d1(E)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	368	#5	34'-6"	
a1(E)	199	#5	33'-10"	
a2(E)	360	#6	8'-4"	
a3(E)	8	#5	1'-2"	
b(E)	228	#5	31'-10"	
b1(E)	238	#5	27'-10"	
b2(E)	62	#6	17'-4"	
b3(E)	62	#6	22'-7"	
d(E)	516	#5	6'-5"	
d1(E)	516	#5	8'-4"	
e(E)	48	#4	14'-10"	
e1(E)	48	#4	16'-8"	
e2(E)	36	#4	14'-0"	
e3(E)	16	#4	30'-0"	
e4(E)	16	#4	33'-8"	
e5(E)	8	#4	42'-9"	
m(E)	8	#6	34'-6"	
m1(E)	16	#6	6'-10"	
m2(E)	8	#6	6'-10"	
m3(E)	8	#6	2'-7"	
m4(E)	4	#6	2'-7"	
m5(E)	4	#4	34'-6"	
s(E)	68	#5	6'-9"	
s1(E)	68	#5	8'-5"	
u(E)	68	#4	2'-2"	
v100(E)	70	#5	3'-1"	
Reinforcement Bars, Epoxy Coated		Lbs.	55,370	
Concrete Superstructure		Cu. Yds.	228.5	

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

SDI-SB-2 4-4-2025

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PLOT DATE = 1/8/2026	CHECKED - ACB	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
STRUCTURE NUMBER 006-0090
SHEET 9 OF 19 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(104C-BR1)BR-1	BUREAU	62	33
		CONTRACT NO. 66M03		
	ILLINOIS	FED. AID PROJECT		

MODEL: Default
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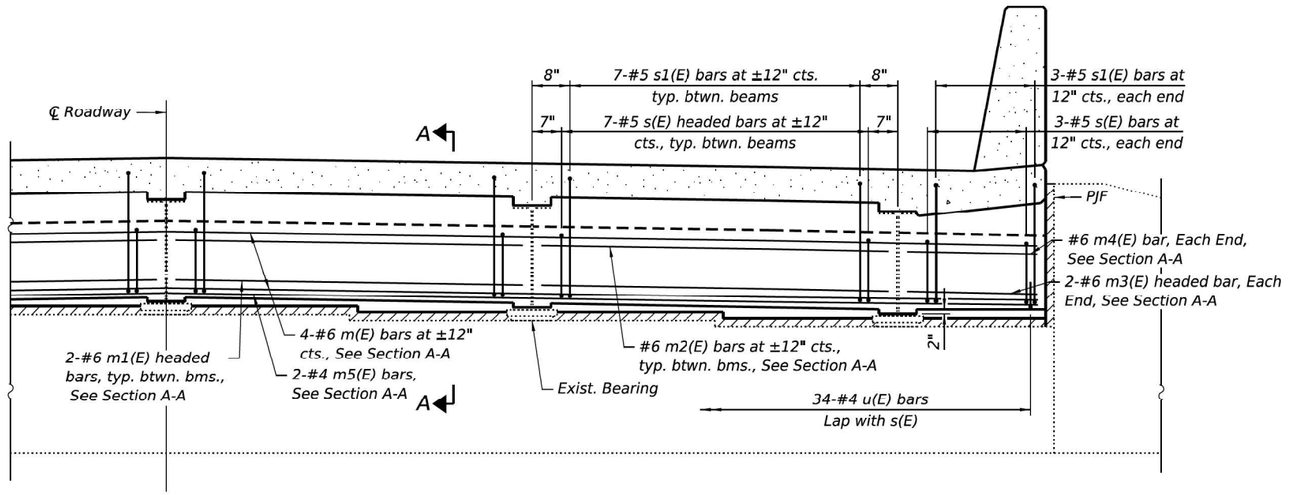
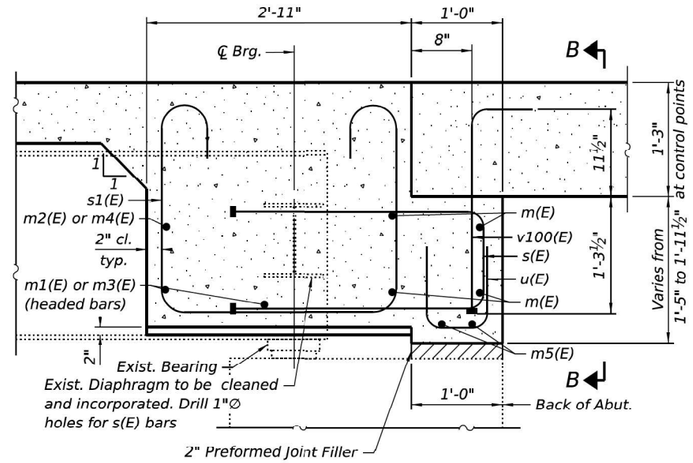
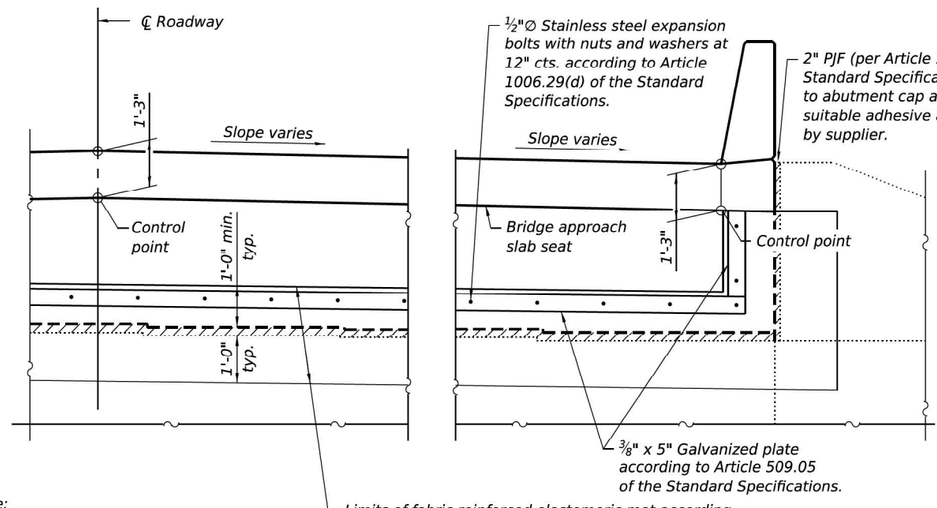


DIAPHRAGM AT ABUTMENT

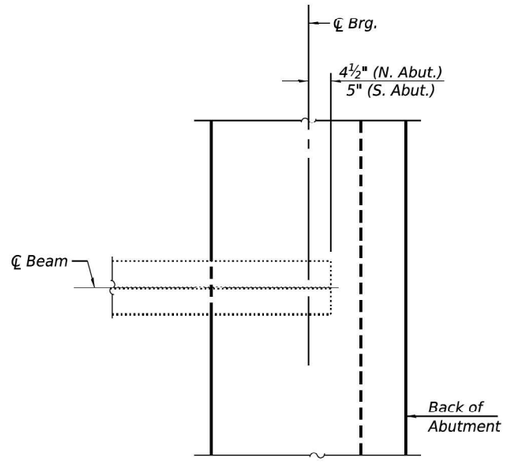


SECTION A-A



VIEW B-B

Note:
Cost of fabric reinforced elastomeric mat, galvanized plate, stainless steel expanion bolts with nuts and washers and installation are included in the cost of Concrete Superstructure.



PLAN AT ABUTMENT
(Showing bottom flange of beam)

Notes:
See sheet 9 of 19 for superstructure details and Bill of Material.
The approach slab seat shall have a constant slope determined from the control points shown.

MODEL: Default
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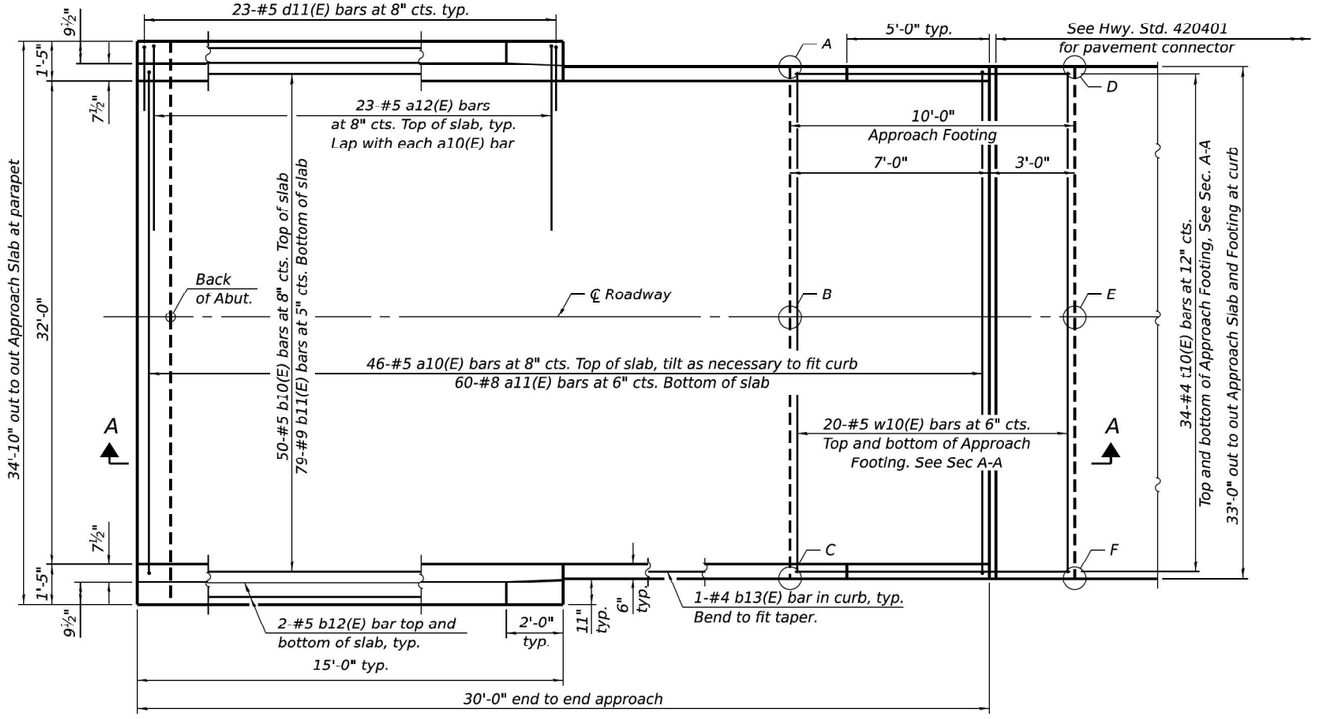
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DIAPHRAGM DETAILS
STRUCTURE NUMBER 006-0090
SHEET 10 OF 19 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(104C-BR1)BR-1	BUREAU	62	34
		CONTRACT NO. 66M03		
	ILLINOIS	FED. AID PROJECT		

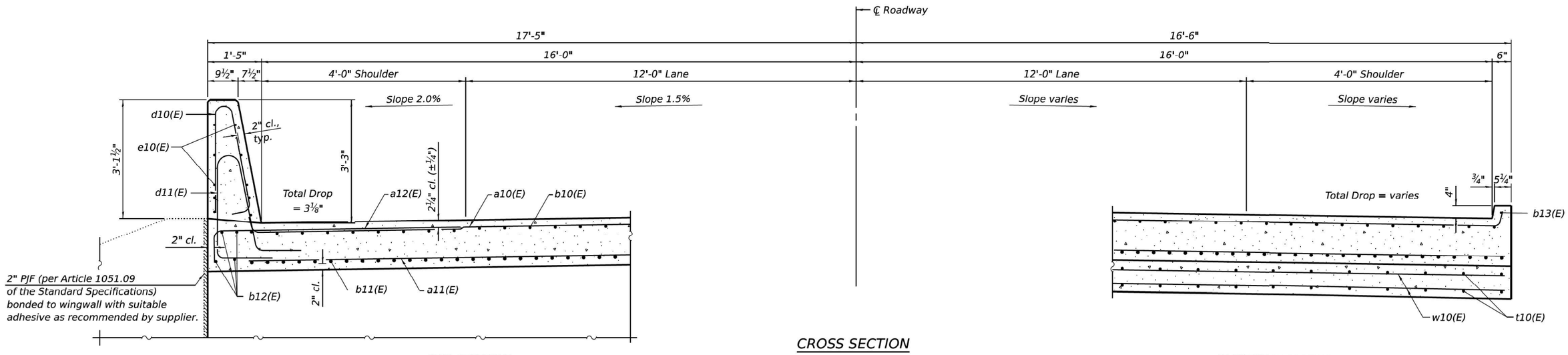


PLAN

(South approach slab shown; North approach slab similar by 180° rotation)

TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

North Approach			South Approach		
Point/ Location	Top	Bottom	Point/ Location	Top	Bottom
A-SW	648.25	647.42	A-NE	648.49	647.66
B-S,CL	648.52	647.69	B-N,CL	648.76	647.93
C-SE	648.25	647.42	C-NW	648.93	648.10
D-NW	648.18	647.34	D-SE	648.44	647.61
E-N,CL	648.45	647.61	E-S,CL	648.71	647.88
F-NE	648.18	647.34	F-SW	648.96	648.12



CROSS SECTION

(Looking South)

NEAR ABUTMENT

AT APPROACH FOOTING

BAIA-CIP-39CS-0 4-4-2025

(Sheet 1 of 2)

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Civil Engineering Design

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS
STRUCTURE NUMBER 006-0090

SHEET 11 OF 19 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(104C-BR1)BR-1	BUREAU	62	35
		CONTRACT NO. 66M03		
	ILLINOIS	FED. AID PROJECT		

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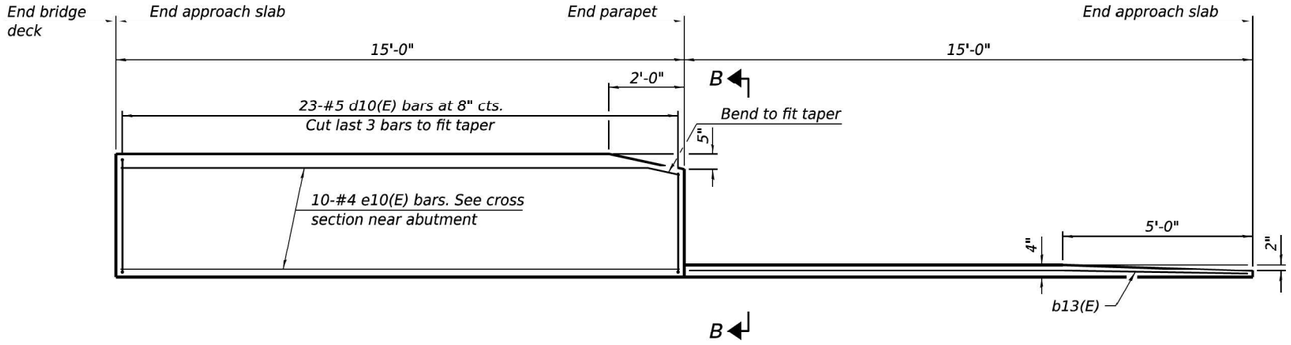
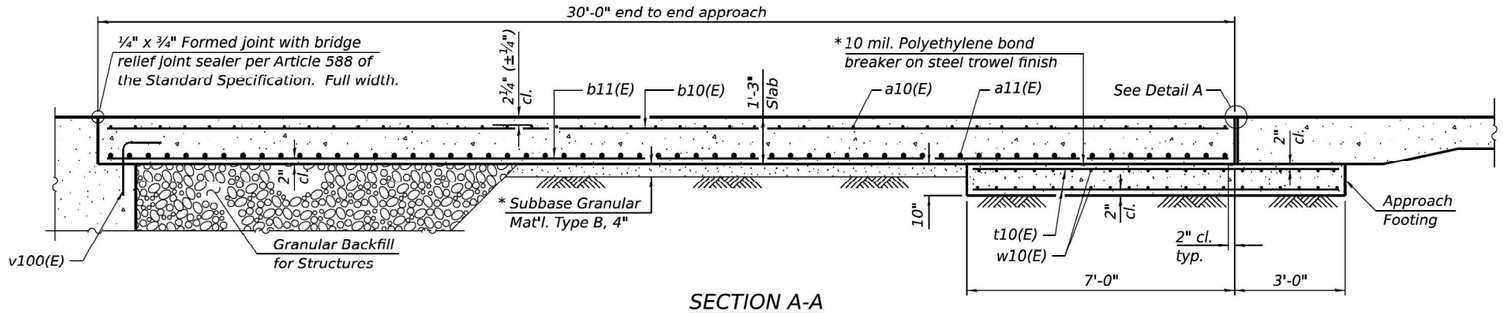
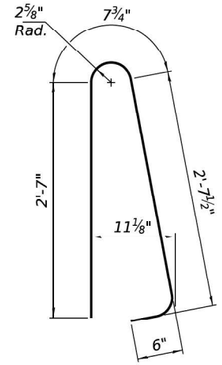


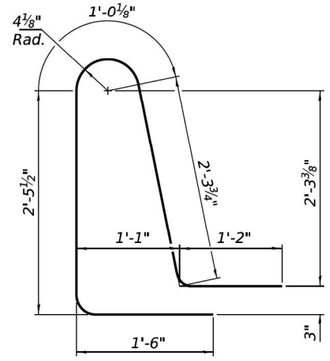
INSIDE ELEVATION OF PARAPET AND CURB



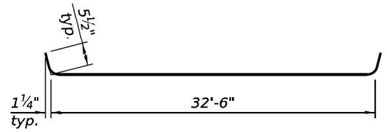
SECTION A-A



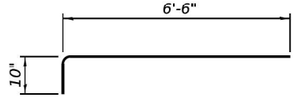
BAR d10(E)



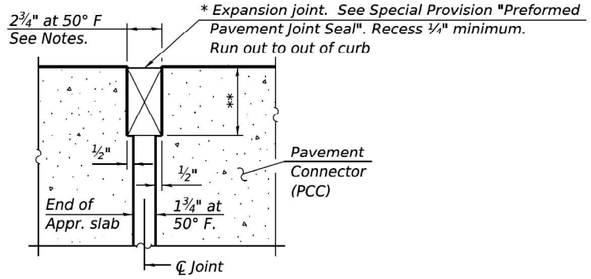
BAR d11(E)



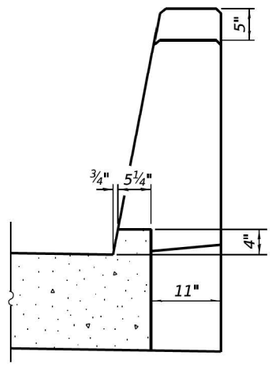
BAR a10(E)



BAR a12(E)



DETAIL A



VIEW B-B

* Cost included with Concrete Superstructure (Approach Slab).

** Per manufacturer recommendations

Notes:

The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.

Parapet concrete shall be paid for as Concrete Superstructure.

Approach slab shall be paid for as Concrete Superstructure (Approach Slab).

Approach footing concrete shall be paid for as Concrete Structures.

The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.

Cost of excavation for approach footing included with Concrete Structures.

For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 19.

TWO APPROACHES BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a10(E)	92	#5	33'-5"	
a11(E)	120	#8	32'-8"	
a12(E)	92	#5	7'-4"	
b10(E)	100	#5	29'-8"	
b11(E)	158	#9	29'-8"	
b12(E)	16	#5	14'-8"	
b13(E)	4	#4	14'-8"	
d10(E)	92	#5	6'-5"	
d11(E)	92	#5	8'-6"	
e10(E)	40	#4	14'-8"	
t10(E)	136	#4	9'-8"	
w10(E)	80	#5	32'-8"	
Concrete Superstructure			Cu. Yd.	7.8
Concrete Superstructure (Approach Slab)			Cu. Yd.	94.8
Concrete Structures			Cu. Yd.	20.4
Reinforcement Bars, Epoxy Coated			Pound	39,120

BAIA-CIP-39CS-0 4-4-2025

(Sheet 2 of 2)

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USER NAME = $USER$	DESIGNED - KRH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BRIDGE APPROACH SLAB DETAILS STRUCTURE NUMBER 006-0090
	CHECKED - ACB	REVISED -		
PLOT SCALE =	DRAWN - KRH	REVISED -		SHEET 12 OF 19 SHEETS
PLOT DATE = 1/8/2026	CHECKED - ACB	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(104C-BR1)BR-1	BUREAU	62	36
		CONTRACT NO. 66M03		
	ILLINOIS	FED. AID PROJECT		

MODEL: Default
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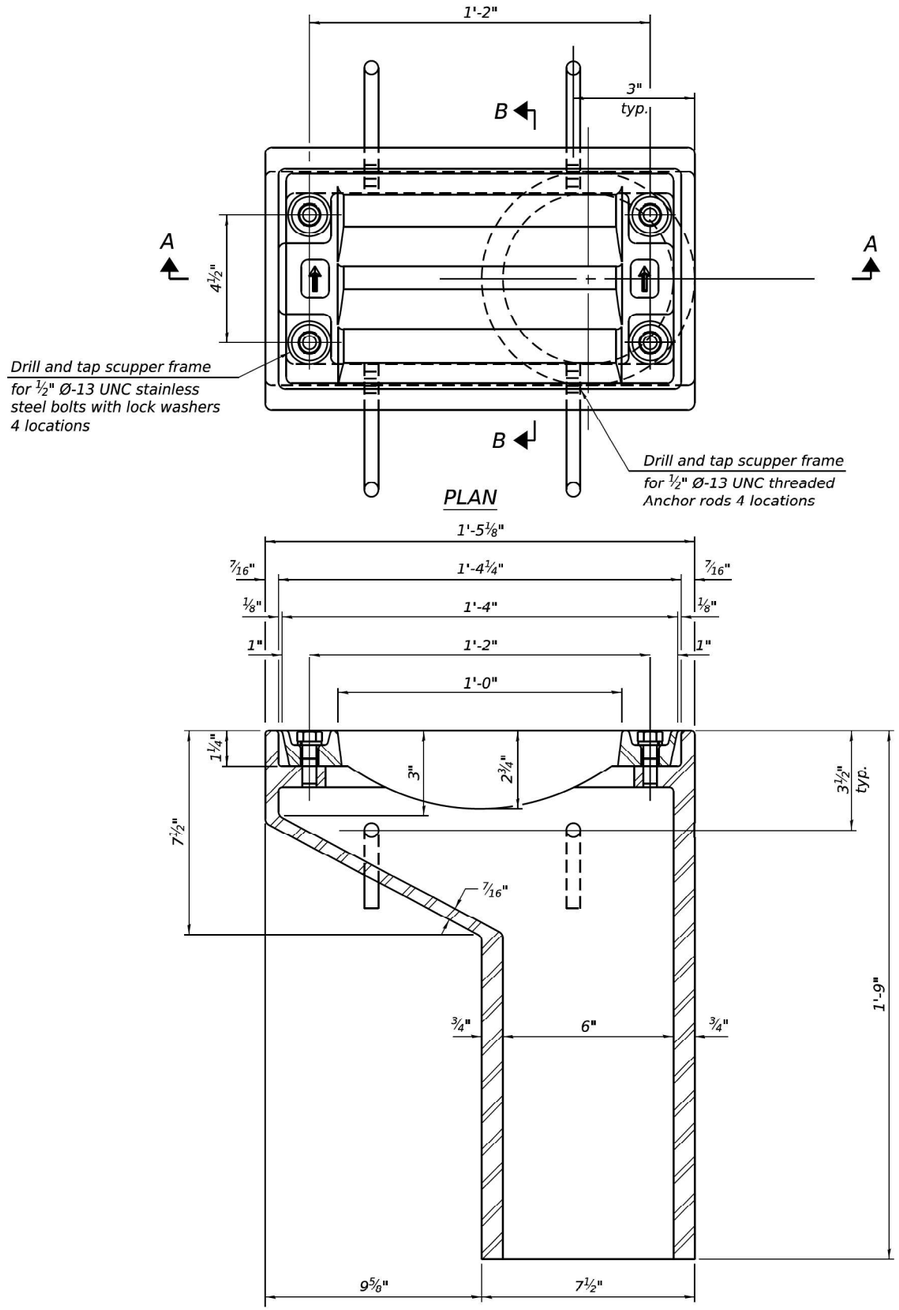
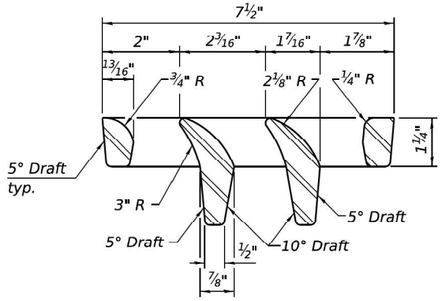
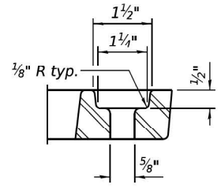


PLAN



VANE GRATE DETAIL



GRATE BOLT HOLE DETAIL

Notes:

All cast iron parts shall be gray iron conforming to the requirements of AASHTO M105, Class 35B and AASHTO M306.

Bolts, anchor rods, nuts and washers shall be according to ASTM A307 and shall be galvanized according to AASHTO M232. As an alternate stainless steel may be used.

Stainless steel hardware shall be according to Article 1006.29(d) of the Standard Specifications.

Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron scupper frames and downspouts; however, the scupper grates shall remain cast iron. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval.

Structural steel scupper frames and downspouts, when utilized, shall be galvanized according to AASHTO M111.

As an alternate, fiberglass may be used for downspouts according to ASTM D2996 with a short-time rupture strength hoop tensile stress of 30,000 psi min. in lieu of the cast iron or structural steel.

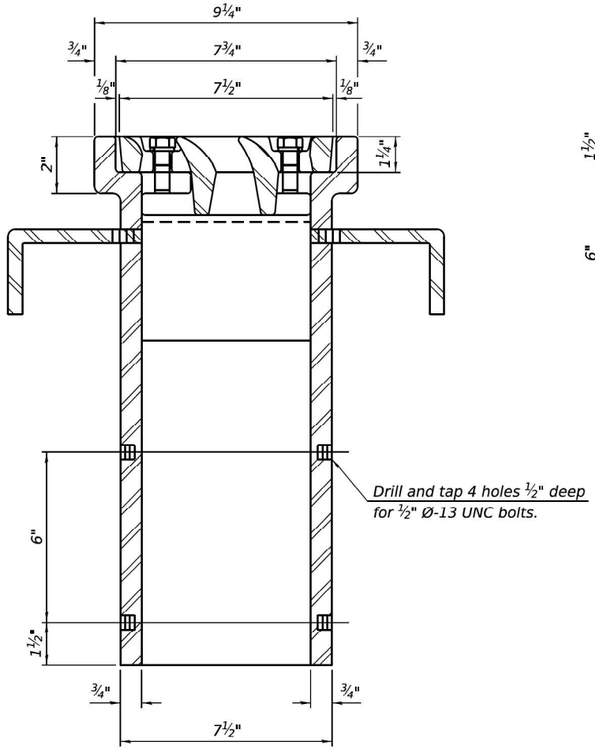
Exterior surfaces of downspouts and exterior exposed surfaces of the scupper frame below deck shall be pigmented or painted to match the color of the adjacent beam.

The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.

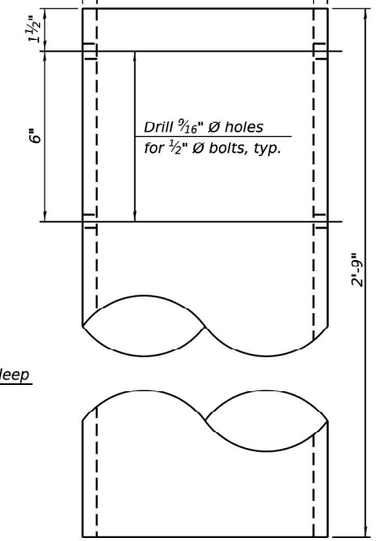
Cost of the grate, frame, downspout, anchor rods, nuts and washers including complete installation of the scupper shall be paid for at the contract unit price for Drainage Scuppers, DS-11.

SECTION A-A

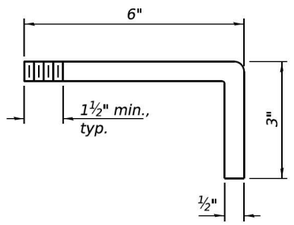
See sheet 8 of 19 for scupper location relative to parapet.



SECTION B-B



DOWNSPOUT



ANCHOR ROD DETAIL

BILL OF MATERIAL

Item	Unit	Quantity
Drainage Scuppers, DS-11	Each	1

DS-11 4-4-2025

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	CHECKED - ACB	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE SCUPPERS, DS-11
STRUCTURE NUMBER 006-0090
SHEET 13 OF 19 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(104C-BR1)BR-1	BUREAU	62	37
		CONTRACT NO. 66M03		
	ILLINOIS	FED. AID PROJECT		

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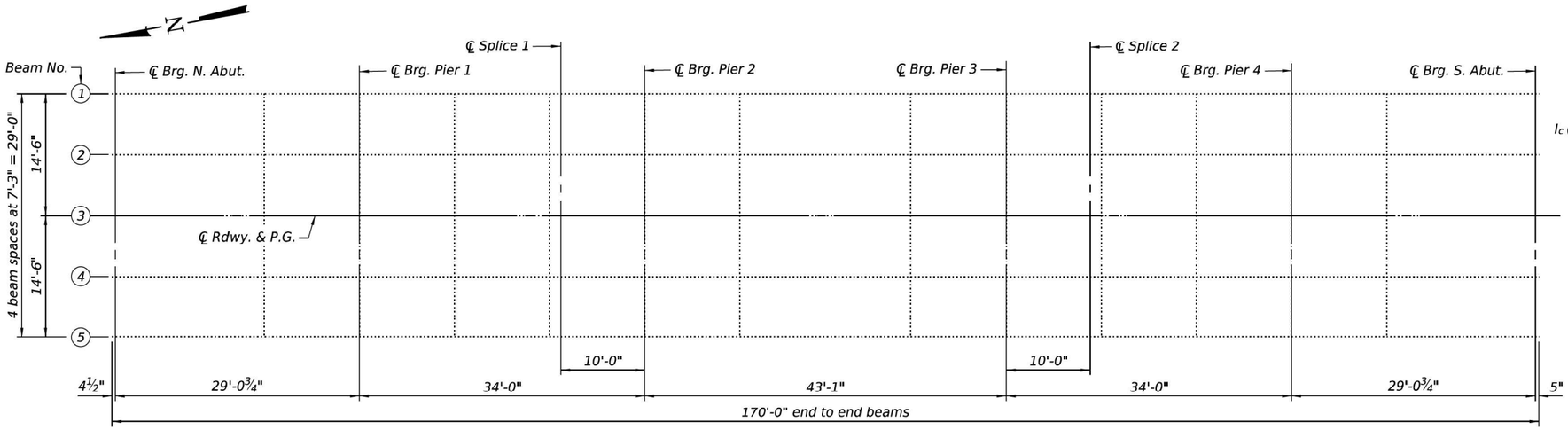
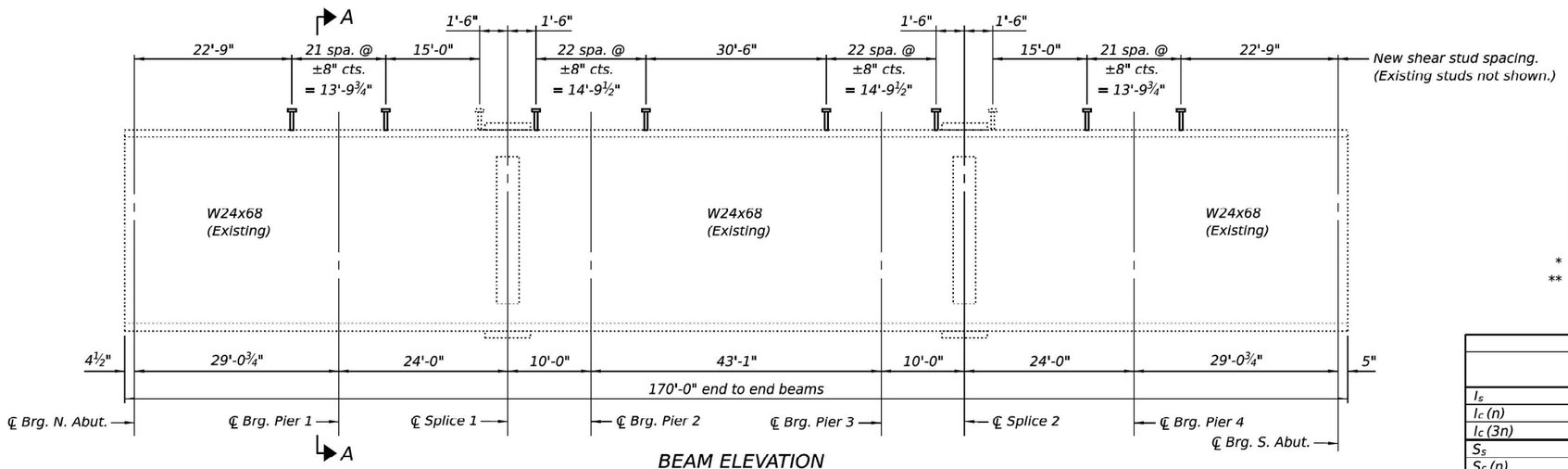
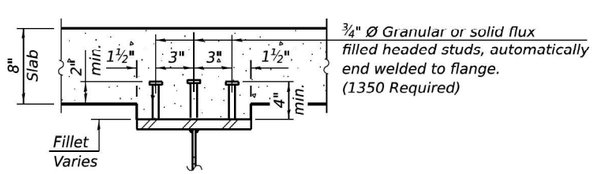


FRAMING PLAN



BEAM ELEVATION



¾" Ø Granular or solid flux filled headed studs, automatically end welded to flange. (1350 Required)

SECTION A-A

I_s , S_s : Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total and Overload) due to non-composite dead loads (in.⁴ and in.³).

I_c (n), S_c (n): Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total and Overload) due to short-term composite live loads (in.⁴ and in.³).

I_c (3n), S_c (3n): Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total and Overload) due to long-term composite (superimposed) dead loads (in.⁴ and in.³).

Z: Plastic Section Modulus of the steel section in non-composite areas (in.³).

℘ : Un-factored non-composite dead load (kips/ft.).

M℘ : Un-factored moment due to non-composite dead load (kip-ft.).

s℘ : Un-factored long-term composite (superimposed) dead load (kips/ft.)

M_s ℘ : Un-factored moment due to long-term composite (superimposed) dead load (kip-ft.).

M℄ : Un-factored live load moment (kip-ft.).

M_I : Un-factored moment due to impact (kip-ft.).

Ma: Factored design moment (kip-ft.).
1.3 [M℘ + M_s℘ + $^5/_3$ (M℄ + M_I)]

Mu: Compact composite moment capacity according to AASHTO LFD 10.50.1.1 or compact non-composite moment capacity according to AASHTO LFD 10.48.1 (kip-ft.).

f_s (Overload): Sum of stresses as computed from the moments below (ksi).
M℘ + M_s℘ + $^5/_3$ (M℄ + M_I)

f_s (Total): Sum of stresses as computed from the moments below on non-compact section (ksi).
1.3 [M℘ + M_s℘ + $^5/_3$ (M℄ + M_I)]

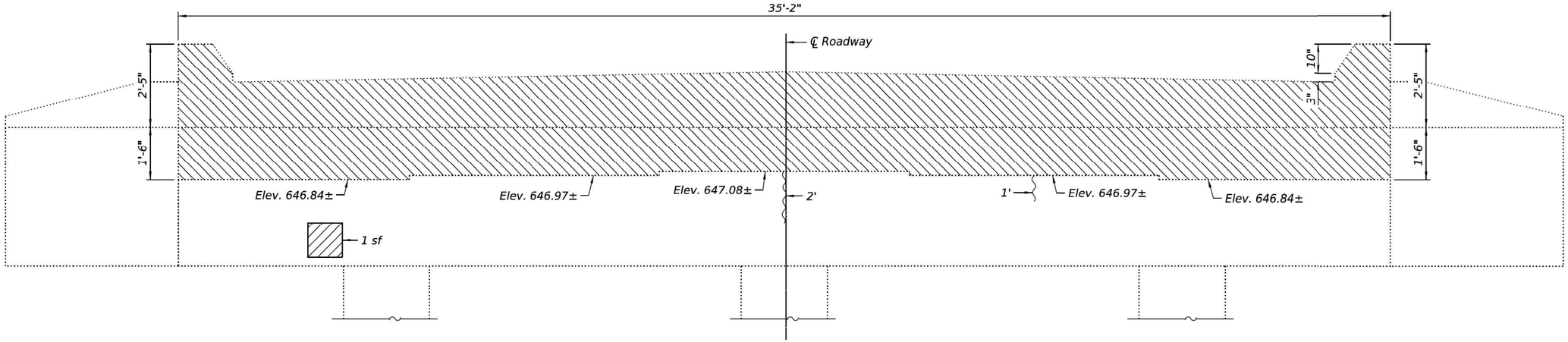
VR: Maximum ℄ + impact shear range within the composite portion of the span for stud shear connector design (kips).

INTERIOR GIRDER REACTION TABLE				
		Abut.	Pier 1 or Pier 4	Pier 2 or Pier 3
R ℘	(k)	15.9	46.1	55.2
R ℄	(k)	42.0	66.5	71.3
R_I	(k)	11.7	15.7	16.3
R_{Total}	(k)	69.6	128.3	142.8

∗ Compact section

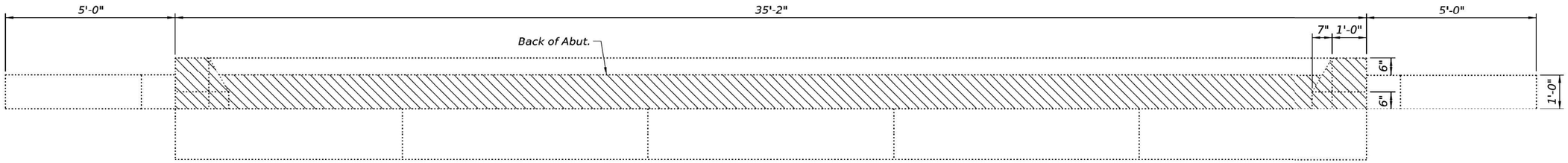
∗∗ Braced non-compact and partially braced section

	INTERIOR GIRDER MOMENT TABLE					
			0.4 Sp. 1 or 0.6 Sp. 5	Pier 1 or Pier 4	0.5 Sp. 2 or 0.5 Sp. 4	Pier 2 or Pier 3	0.5 Sp. 3
	I_s	(in⁴)	1830	1830	1830	1830	1830
	I_c (n)	(in⁴)	6513	6513	6513	6513	6513
	I_c (3n)	(in⁴)	5098	5098	5098	5098	5098
	S_s	(in³)	154.4	154.4	154.4	154.4	154.4
	S_c (n)	(in³)	261.1	261.1	261.1	261.1	261.1
	S_c (3n)	(in³)	236.3	236.3	236.3	236.3	236.3
	Z	(in³)	177	-	177	-	177
	℘	(k/')	0.82	0.82	0.82	0.82	0.82
	M℘	('k)	55	75	27	113	82
	s℘	(k/')	0.37	0.37	0.37	0.37	0.37
	M_s ℘	('k)	24	33	12	50	36
	M℄	('k)	144	127	143	152	193
	MIM	('k)	43	41	43	47	57
	$^5/_3$ [M℄ + $_I$]	('k)	312	280	309	332	417
	Ma	('k)	508	504	452	644	696
∗	Mu	('k)	1336	-	1473	-	1560
	f_s ℘ (non-comp)	(ksi)	4.3	5.8	2.1	8.7	6.4
	f_s ℘ (comp)	(ksi)	1.2	2.6	0.6	3.9	1.8
	f_s $^5/_3$ [M℄ + M_I]	(ksi)	15.9	21.8	15.7	25.8	21.2
	f_s (Overload)	(ksi)	21.4	30.1	18.4	38.4	29.4
∗∗	f_s (Total)	(ksi)	-	39.2	-	50.0	-
	VR	(k)	43.6	52.9	43.3	53.0	47.1

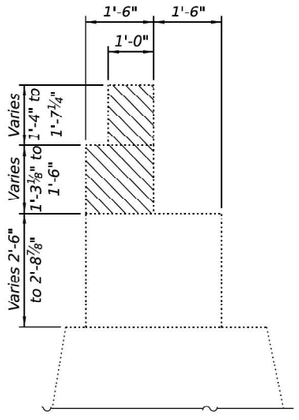


NORTH ABUTMENT ELEVATION

(Looking North)



NORTH ABUTMENT PLAN



SECTION THRU ABUT.

LEGEND

- Concrete Removal
- Structural Repair of Concrete (Depth Equal to or Less Than 5")
- Epoxy Crack Injection

Notes:

Any reinforcement bars that are damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system in accordance with Article 501.03 in the IDOT Standard Specifications. Cost included with Concrete Removal.

Repairs shall include but may not be limited to areas shown. The actual areas to be repaired shall be determined by the Engineer at the time of construction. Quantities for the Epoxy Crack Injection increased to allow for additional repairs.

BILL OF MATERIAL

Item	Unit	Quantity
Concrete Removal	Cu. Yd.	4.8
Structural Repair of Concrete (Depth Equal to or Less than 5")	Sq. Ft.	1
Epoxy Crack Injection	Foot	25

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT REMOVAL AND REPAIRS
STRUCTURE NUMBER 006-0090
SHEET 15 OF 19 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(104C-BR1)BR-1	BUREAU	62	39
		CONTRACT NO. 66M03		
	ILLINOIS	FED. AID PROJECT		

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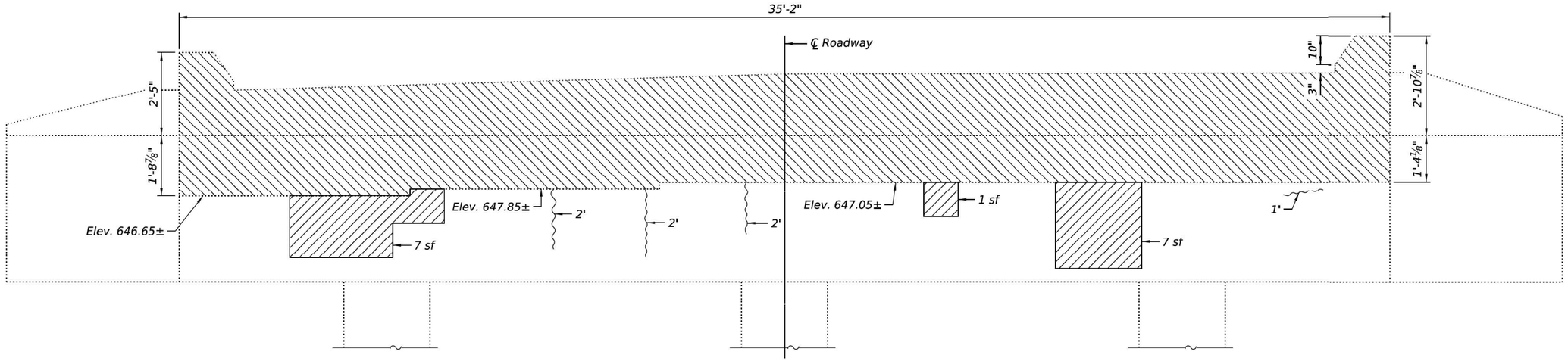
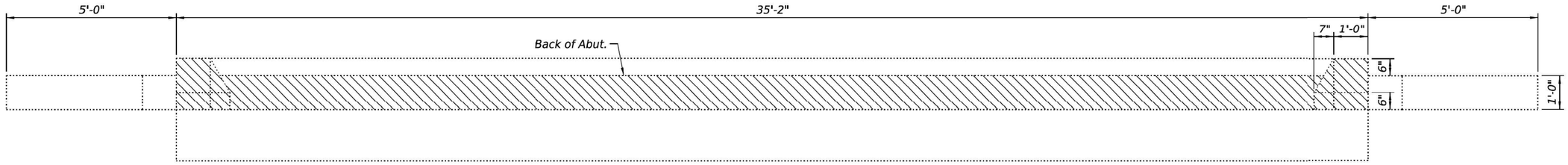
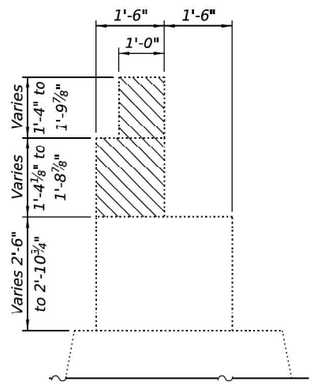


SOUTH ABUTMENT ELEVATION

(Looking South)



SOUTH ABUTMENT PLAN



SECTION THRU ABUT.

LEGEND

- Concrete Removal
- Structural Repair of Concrete (Depth Equal to or Less Than 5")
- Epoxy Crack Injection

Notes:

Any reinforcement bars that are damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system in accordance with Article 501.03 in the IDOT Standard Specifications. Cost included with Concrete Removal.

Repairs shall include but may not be limited to areas shown. The actual areas to be repaired shall be determined by the Engineer at the time of construction. Quantities for the Epoxy Crack Injection increased to allow for additional repairs.

BILL OF MATERIAL

Item	Unit	Quantity
Concrete Removal	Cu. Yd.	4.7
Structural Repair of Concrete (Depth Equal to or Less than 5")	Sq. Ft.	15
Epoxy Crack Injection	Foot	25

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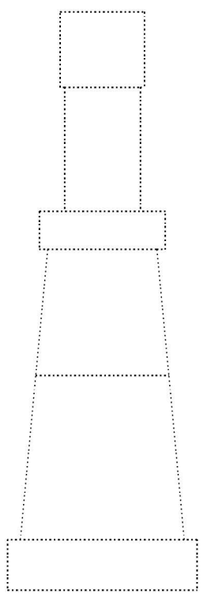
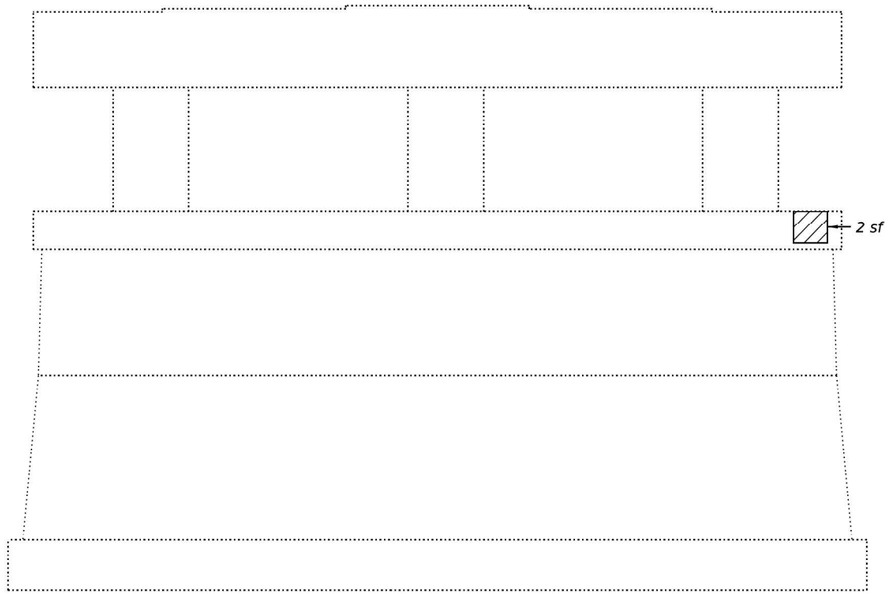
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT REMOVAL AND REPAIRS
STRUCTURE NUMBER 006-0090
SHEET 16 OF 19 SHEETS

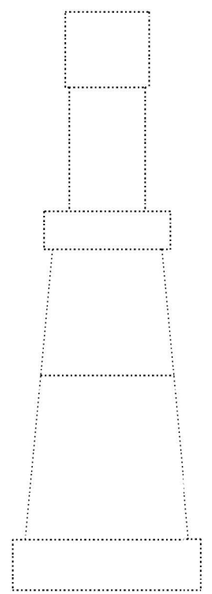
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(104C-BR1)BR-1	BUREAU	62	40
		CONTRACT NO. 66M03		
	ILLINOIS	FED. AID PROJECT		



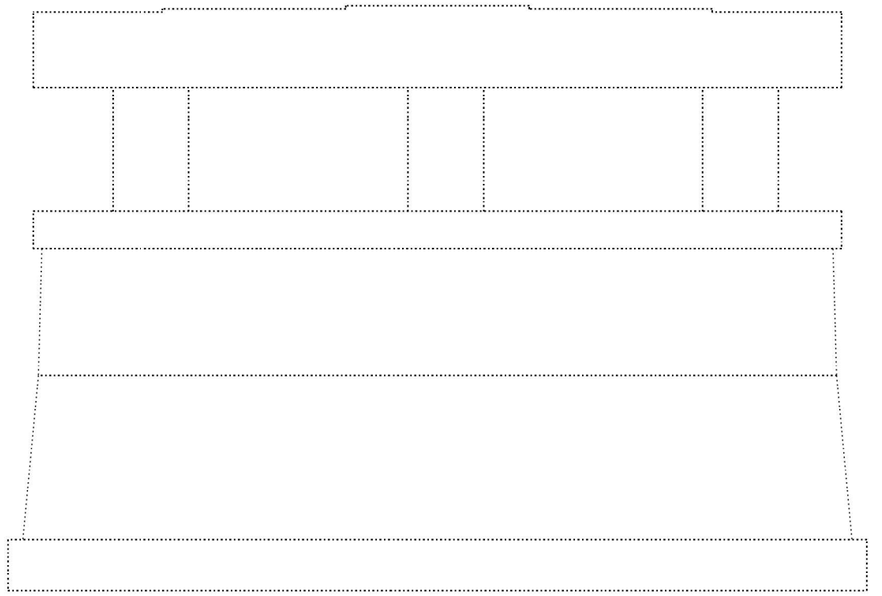
SIDE VIEW



PIER 1 ELEVATION
(Looking South)



SIDE VIEW



PIER 1 ELEVATION
(Looking North)

Notes:
Repairs shall include but may not be limited to areas shown. The actual areas to be repaired shall be determined by the Engineer at the time of construction.

LEGEND

Structural Repair of Concrete (Depth Equal to or Less Than 5")

BILL OF MATERIAL

Item	Unit	Quantity
Structural Repair of Concrete (Depth Equal to or Less than 5")	Sq. Ft.	2

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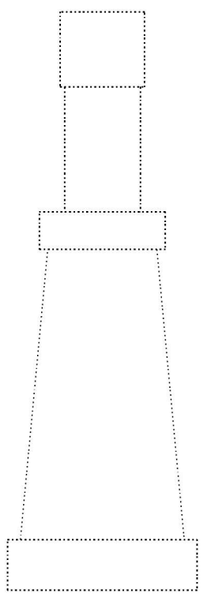
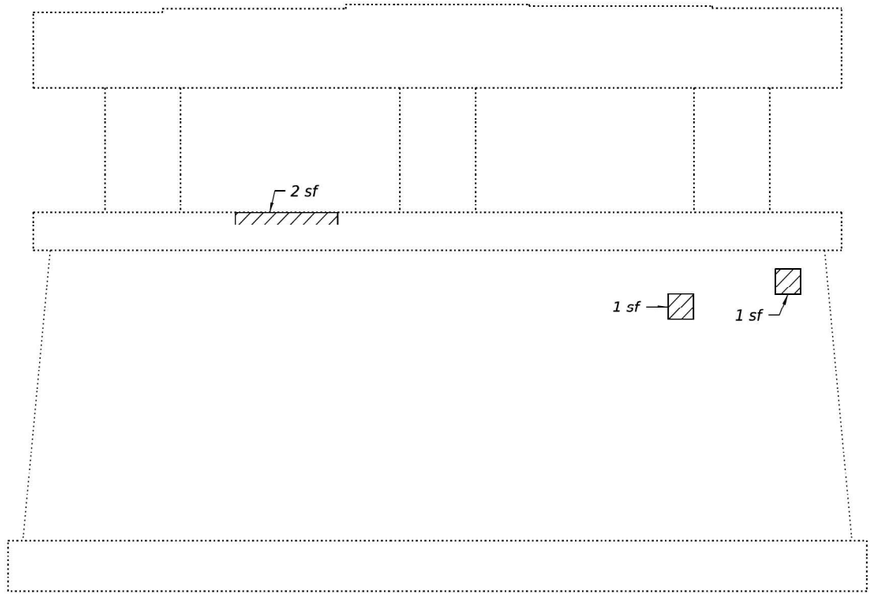
DEPARTMENT OF TRANSPORTATION

PIER 1 REPAIRS
STRUCTURE NUMBER 006-0090
SHEET 17 OF 19 SHEETS

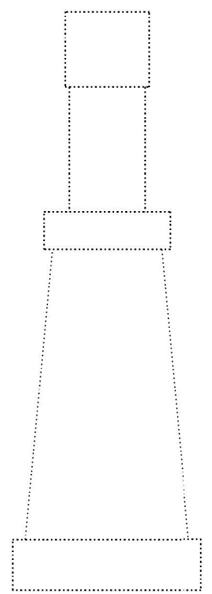
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(104C-BR1)BR-1	BUREAU	62	41
		CONTRACT NO. 66M03		
	ILLINOIS	FED. AID PROJECT		



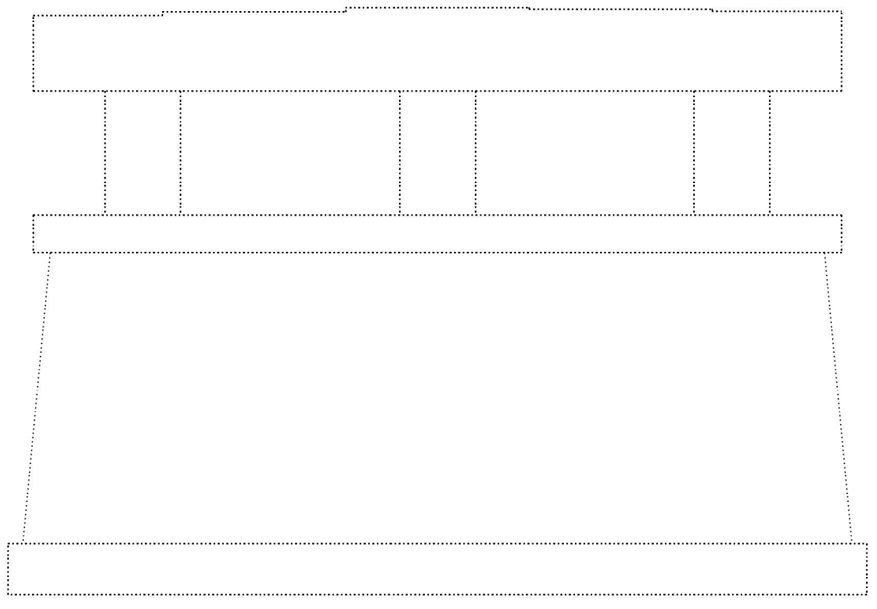
SIDE VIEW



PIER 4 ELEVATION
(Looking South)



SIDE VIEW



PIER 4 ELEVATION
(Looking North)

Notes:
Repairs shall include but may not be limited to areas shown. The actual areas to be repaired shall be determined by the Engineer at the time of construction.

LEGEND

Structural Repair of Concrete (Depth Equal to or Less Than 5")

BILL OF MATERIAL

Item	Unit	Quantity
Structural Repair of Concrete (Depth Equal to or Less than 5")	Sq. Ft.	4

MODEL: Default
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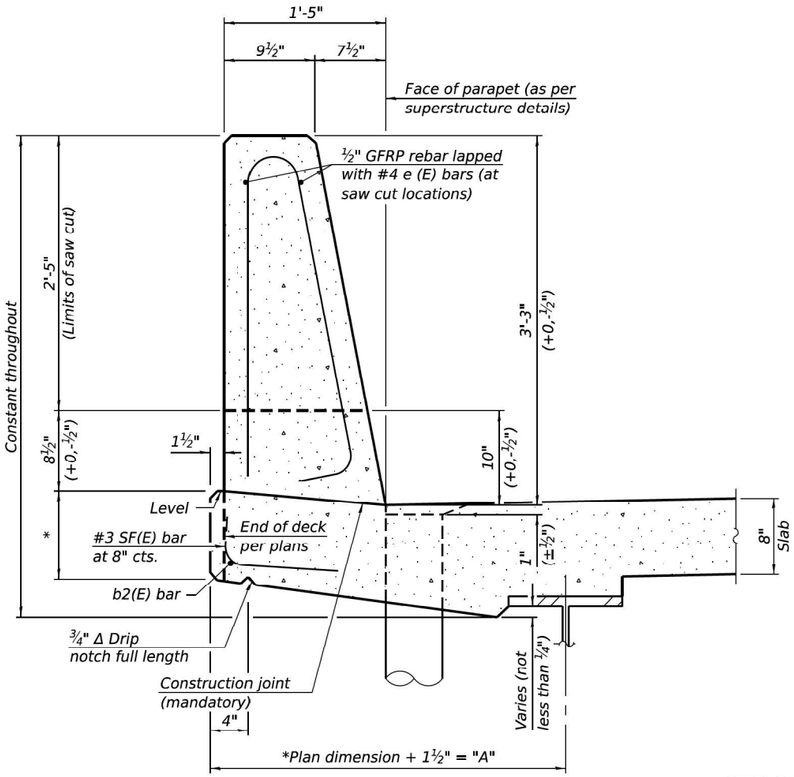
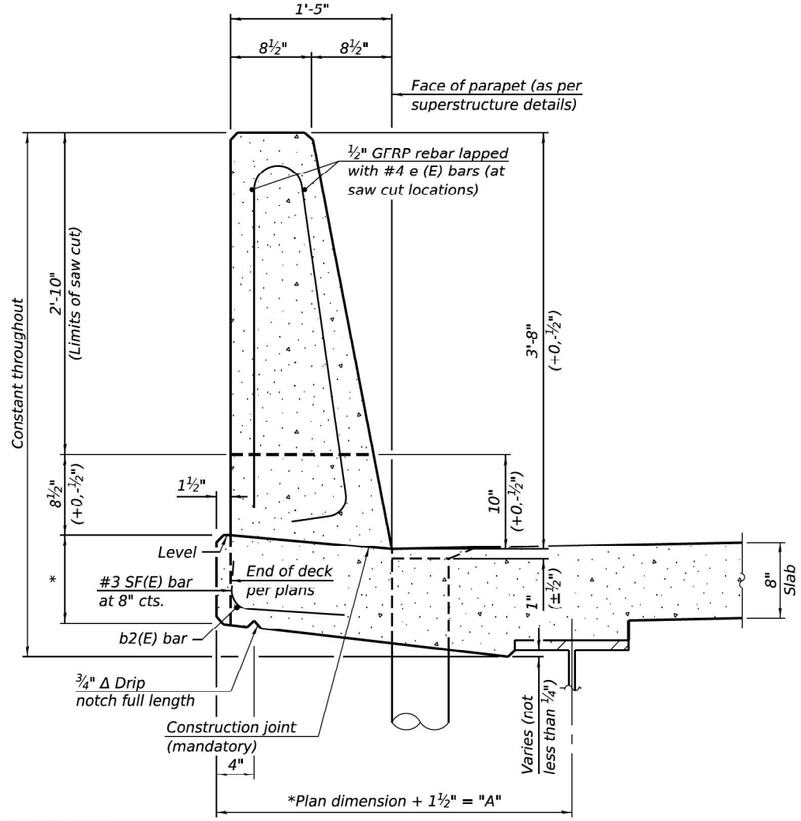
DEPARTMENT OF TRANSPORTATION

PIER 4 REPAIRS
STRUCTURE NUMBER 006-0090
SHEET 18 OF 19 SHEETS

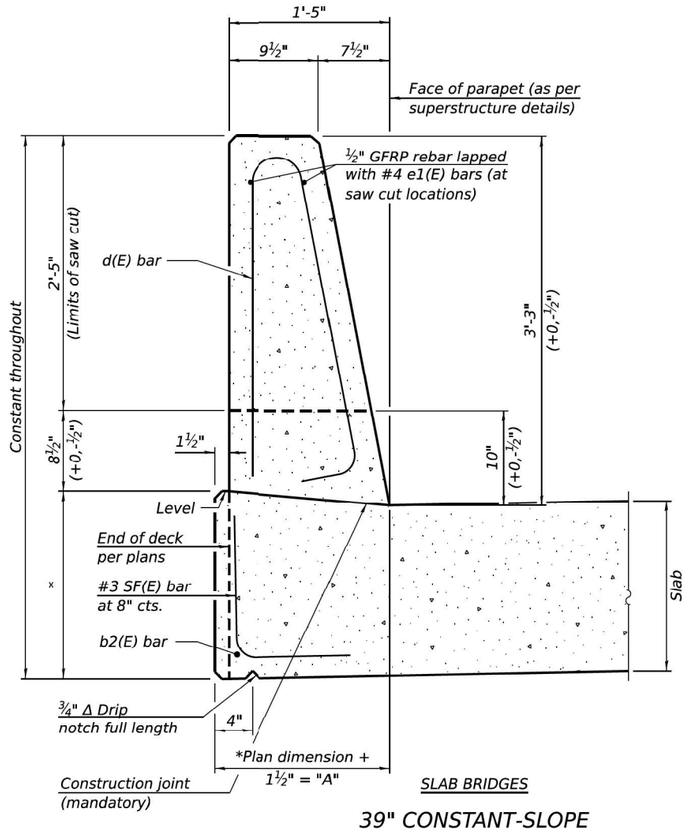
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(104C-BR1)BR-1	BUREAU	62	42
		CONTRACT NO. 66M03		
	ILLINOIS	FED. AID PROJECT		



39" CONSTANT-SLOPE
PARAPET SECTION
(Showing dimensions, d(E), and ½" Ø GFRP rebar)



44" CONSTANT-SLOPE
PARAPET SECTION
(Showing dimensions, d(E), and ½" Ø GFRP rebar)

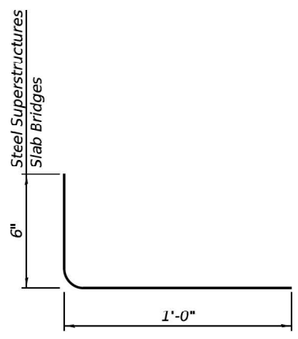


39" CONSTANT-SLOPE
PARAPET SECTION
(Showing dimensions, d(E), and ½" Ø GFRP rebar)

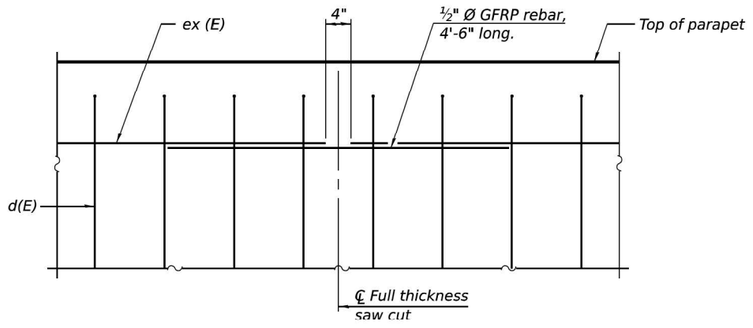
STEEL SUPERSTRUCTURES

SLAB BRIDGES

*See Superstructure Details.



SF(E) BAR



DETAIL - GFRP REBAR STIFFENING ELEVATION
(Place as shown in parapet section at each parapet joint location.)

Notes:
All dimensions shall remain the same as shown on superstructure details, except dimension "A" which is to be revised as shown.
Additional concrete needed to revise dimension "A" (39" and 44" parapets):
Steel Superstructures: 0.00348 cu. yds./ft.
Slab Bridge Superstructures: cu. yds./ft.
Place full depth aluminum sheets as shown on superstructure details.
Replace all cork joint filler locations with a full thickness saw cut.
Steel and slab superstructures shown. Other superstructure types similar.

SFP 39-44 10/27/2023

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONCRETE PARAPET SLIPFORMING OPTION
STRUCTURE NUMBER 006-0090
SHEET 19 OF 19 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(104C-BR1)BR-1	BUREAU	62	43
		CONTRACT NO. 66M03		
	ILLINOIS	FED. AID PROJECT		

MODEL: Default
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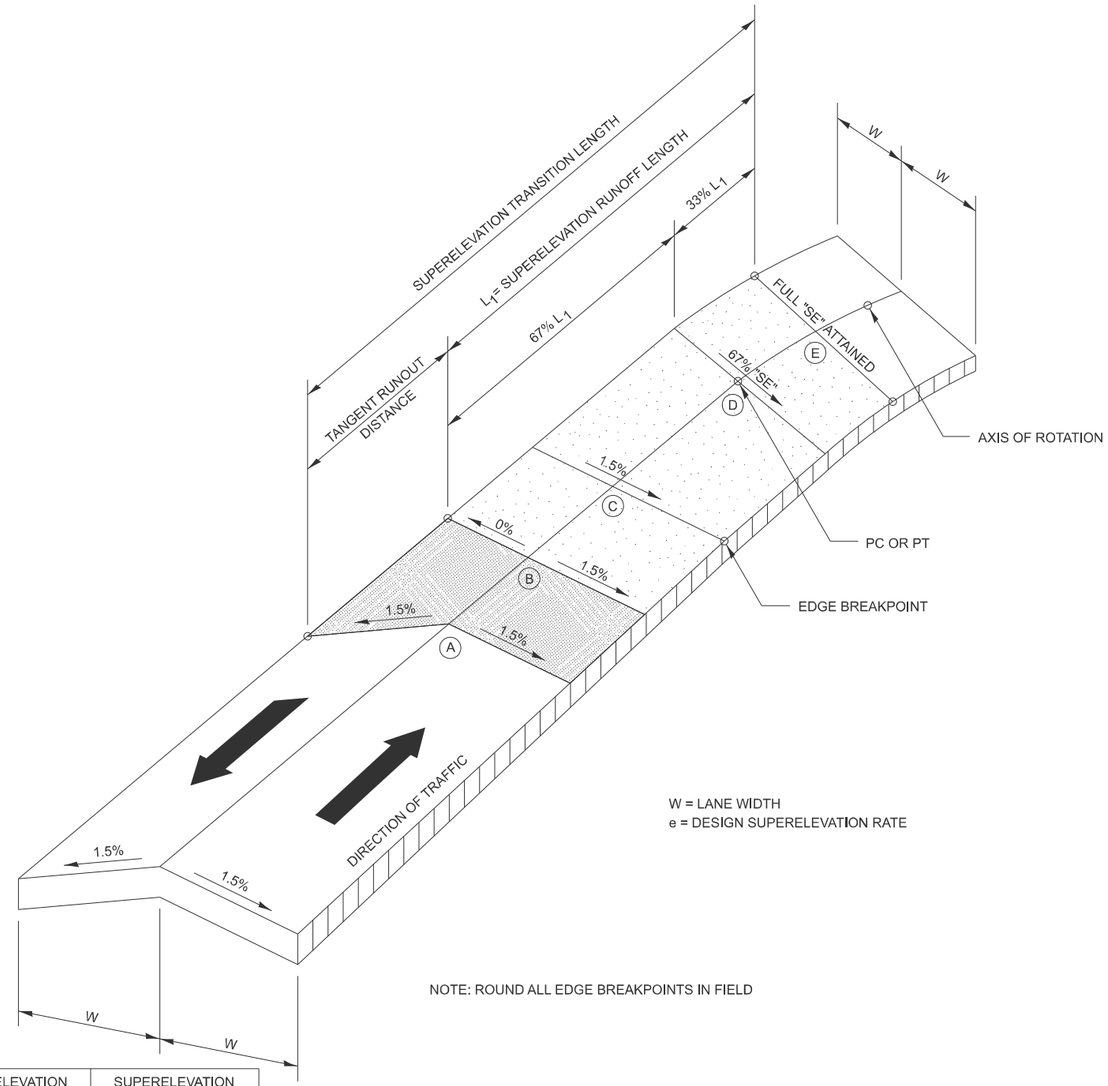
TYPICAL CROSS SECTIONS
SUPERELEVATION DEVELOPMENT



W = LANE WIDTH
e = DESIGN SUPERELEVATION RATE

NOTE: ROUND ALL EDGE BREAKPOINTS IN FIELD

TRANSITION CURVE TABLE

CURVE EXCL IL 40 3 PI STA. 1432+59.98	W	A3	B3	C3	D3	E3	SUPERELEVATION "SE"	TANGENT RUNOUT DISTANCE (TR)	SUPERELEVATION TRANSITION LENGTH (L)	SUPERELEVATION RUNOFF LENGTH (LI)
APPROACH	*	*	*	*	*	*	*	*	*	*
DEPARTURE	13'	1445+04.64 R2	1444+65.64 R2	1444+23.01	1444+28.01	1444+11.01	2.0%	39'	90'	51'

CURVE EXCL IL 40 8 PI STA. 1456+16.30	W	A8	B8	C8	D8	E8	SUPERELEVATION "SE"	TANGENT RUNOUT DISTANCE (TR)	SUPERELEVATION TRANSITION LENGTH (L)	SUPERELEVATION RUNOFF LENGTH (LI)
APPROACH	13'	1447+72.35	1448+04.00	1448+35.65	1448+89.80	1449+53.80	7.1%	31.7'	181.5'	149.8'
DEPARTURE	*	*	*	*	*	*	*	*	*	*

* SUPERELEVATION TRANSITION OUTSIDE PROJECT LIMITS NOT SHOWN

SUPERELEVATION TRANSITION ON TWO-LANE HIGHWAY

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EFK•Moen
Civil Engineering Design

USER NAME = ZWaters	DESIGNED - JDB	REVISED -	
	DRAWN - JDB	REVISED -	
	CHECKED - RBB	REVISED -	
PLOT DATE = 1/9/2026	DATE - 11/14/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

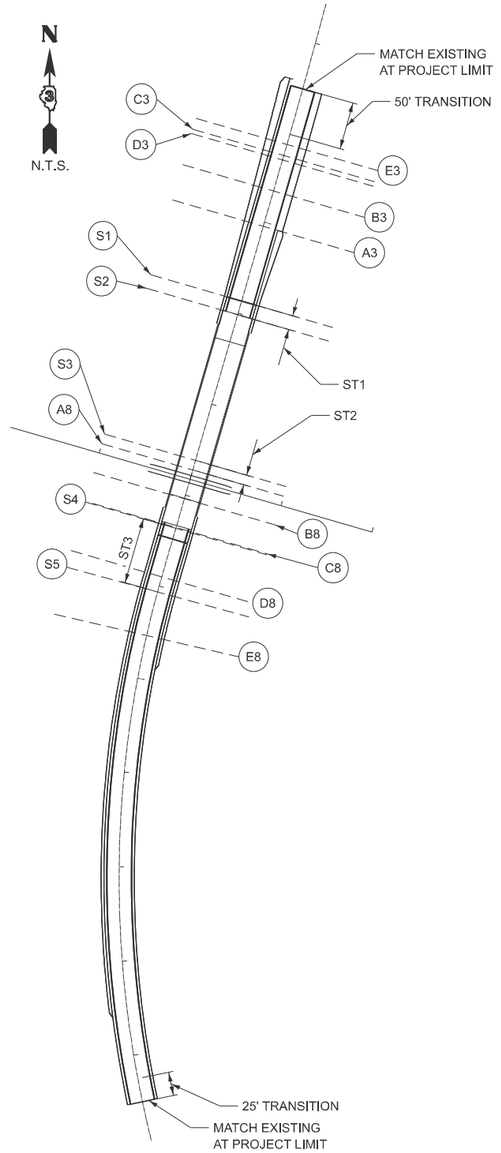
IL 40 OVER HENNEPIN CANAL
SUPER ELEVATION DETAILS

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(104C-BR1)BR-1	BUREAU	62	44
		CONTRACT NO. 66M03		
		ILLINOIS FED. AID PROJECT		

SPECIAL SECTION TRANSITION TABLE

SPECIAL TRANSITION	SECTION	STATION	NB SHLDR SLOPE	NB LANE SLOPE	SB LANE SLOPE	SB SHLDR SLOPE
ST1 SHOULDER ON APPROACH TO BRIDGE	S1	1445+86.66	-4.0%	-1.5%	-1.5%	-4.0%
	S2	1446+01.66	-2.0%	-1.5%	-1.5%	-2.0%
ST2 SHOULDER SLOPE ON BRIDGE	S3	1447+61.80	-2.0%	-1.5%	-1.5%	-2.0%
	A8	1447+72.35	-2.0%	-1.5%	-1.5%	-1.5%
ST3 SHOULDER ON DEPARTURE FROM BRIDGE	S4	1448+36.46	-1.5%	-1.5%	1.5%	1.5%
	S5	1449+06.46	-4.9%	-4.9%	4.9%	-3.1%



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Civil Engineering Design

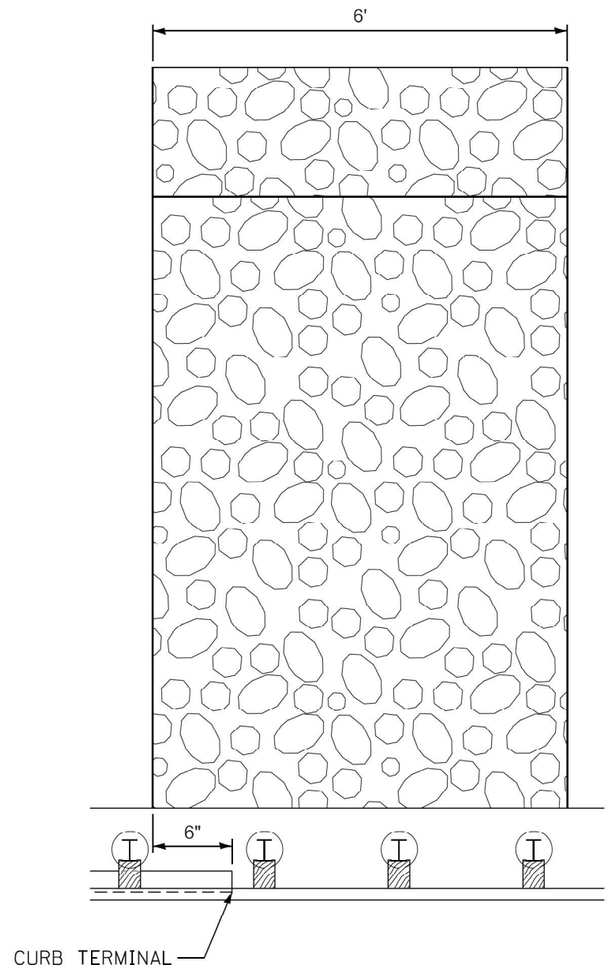
USER NAME = pgillespie	DESIGNED - JDB	REVISED -	
	DRAWN - JDB	REVISED -	
	CHECKED - RBB	REVISED -	
PLOT DATE = 1/13/2026	DATE - 11/14/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

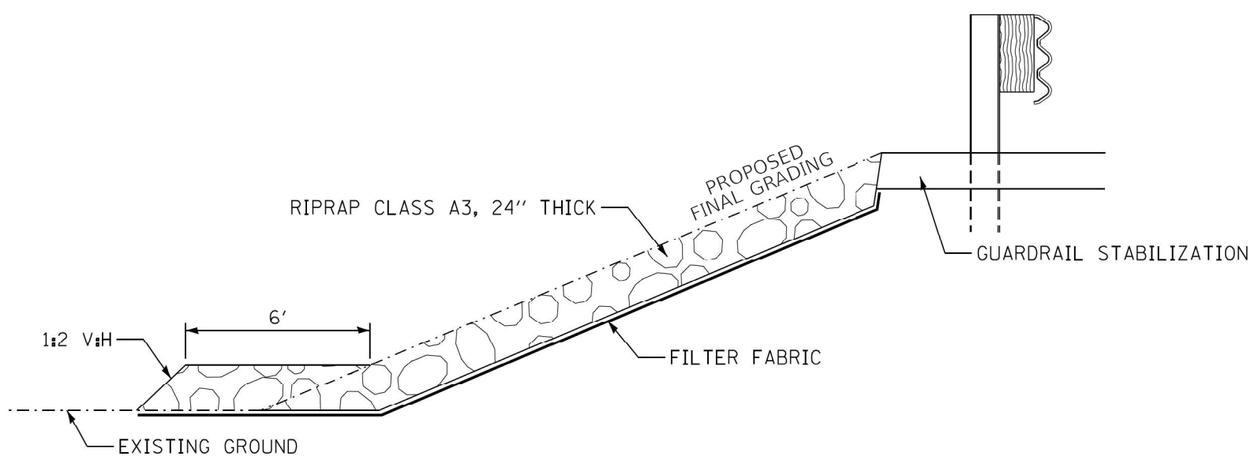
IL 40 OVER HENNEPIN CANAL
SUPER ELEVATION DETAILS

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(104C-BR1)BR-1	BUREAU	62	45
		CONTRACT NO. 66M03		
	ILLINOIS	FED. AID PROJECT		



RIPRAP EMBANKMENT
PLAN VIEW
NOT TO SCALE



RIPRAP EMBANKMENT
PROFILE VIEW
NOT TO SCALE

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EFK•Moen
Civil Engineering Design

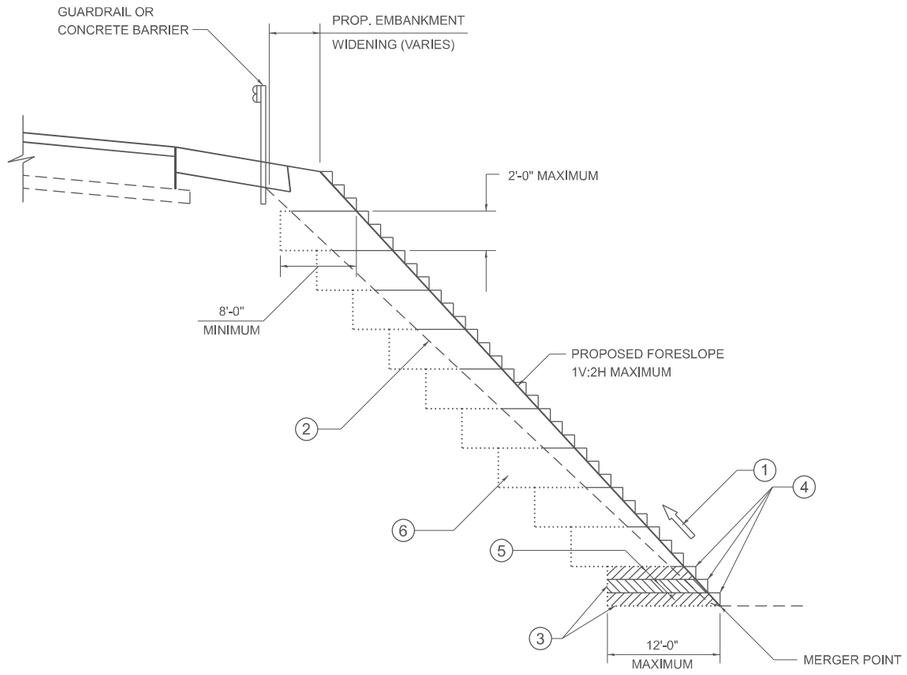
USER NAME = skierpiec	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 1/13/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 40 OVER HENNEPIN CANAL
RIPRAP EMBANKMENT DETAILS

SCALE: NONE | SHEET 1 OF 4 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(104C-BR1)BR-1	BUREAU	62	46
		CONTRACT NO. 66M03		
	ILLINOIS FED. AID PROJECT			



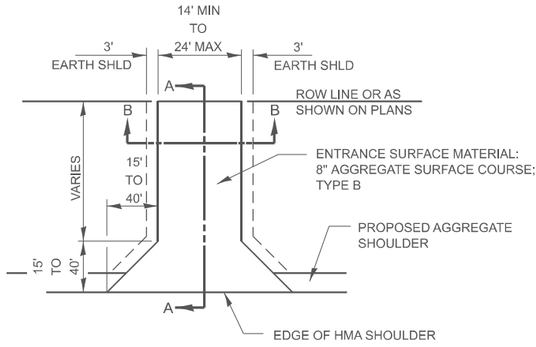
TYPICAL BENCHING DETAIL FOR EMBANKMENT

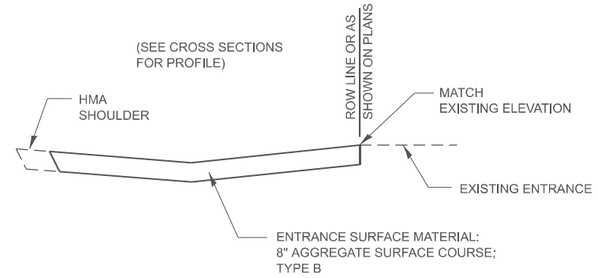
NOTES:

1. CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
2. EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
3. BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
4. TRIM TO FINAL SLOPE.
5. EQUAL 8-INCH LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
6. EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE INCLUDED IN THE COST OF FURNISHED EXCAVATION.
7. SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 1V:4H AND THE HEIGHT IS GREATER THAN 5'.

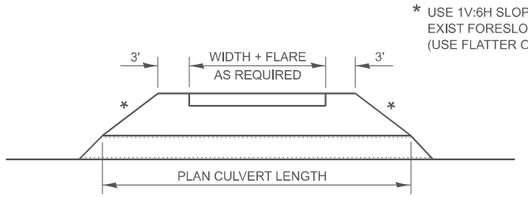
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN.

205-4





SECTION A-A



SECTION B-B

FIELD ENTRANCE DETAIL

402-1

EFK•Moen
Civil Engineering Design

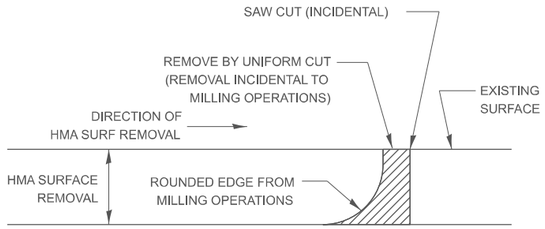
USER NAME = pgillespie	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 1/13/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 40 OVER HENNEPIN CANAL
DISTRICT 3 STANDARD DETAILS

SCALE: NONE | SHEET 2 OF 4 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(104C-BR1)BR-1	BUREAU	62	47
		CONTRACT NO. 66M03		
		ILLINOIS FED. AID PROJECT		

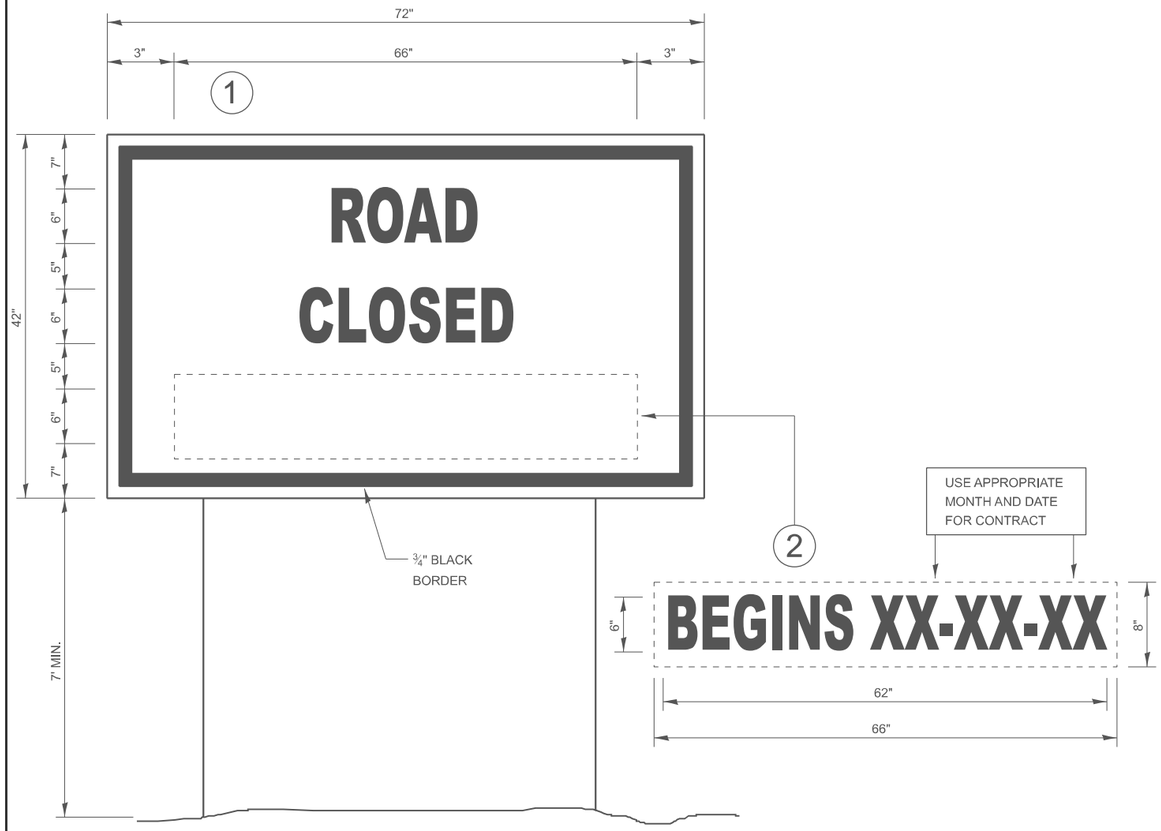


NOTE:

WHEN MILLING OPERATIONS PRODUCE A ROUNDED EDGE,
THEN A SAW CUT SHALL BE USED TO MANUFACTURE
A PERPENDICULAR EDGE AS SHOWN IN THE DETAIL.
THE ENGINEER SHALL BE THE SOLE JUDGE
CONCERNING THE USE OF THIS DETAIL

HMA BUTT JOINT SAW CUTS

406-8



TEMPORARY INFORMATION SIGNING

NOTES:

1. USE 6" D BLACK LETTERING ON FLUORESCENT ORANGE BACKGROUND.
2. ERECT SIGNS AT LOCATIONS IN ADVANCE OF THE "ROAD CONSTRUCTION AHEAD" SIGNS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN (1) WITH INSTALLED PANEL (2) A MINIMUM OF ONE WEEK PRIOR TO THE START OF THE ROAD CLOSURE.
4. REMOVE PANEL (2) ON THAT DATE.
5. SEE SPECIAL PROVISION "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. WILL BE PAID FOR PER SQ FT AS "TEMPORARY INFORMATION SIGNING". EACH SIGN = 21 SQ FT AND THE DATE PANEL (2) WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.

720-10

EFK•Moen
Civil Engineering Design

USER NAME = pgillespie	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 1/13/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 40 OVER HENNEPIN CANAL
DISTRICT 3 STANDARD DETAILS

SCALE: NONE | SHEET 3 OF 4 SHEETS | STA. | TO STA.

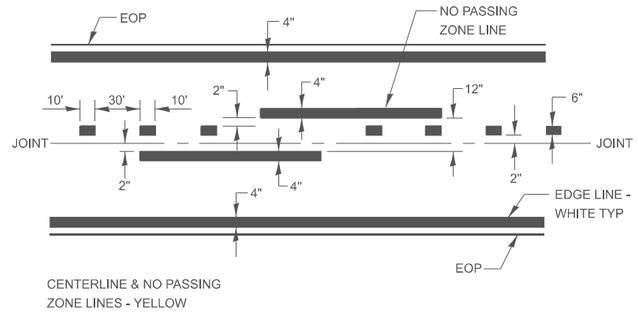
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(104C-BR1)BR-1	BUREAU	62	48
		CONTRACT NO. 66M03		
	ILLINOIS FED. AID PROJECT			

TEMPORARY INFORMATION SIGNING

NOTES:

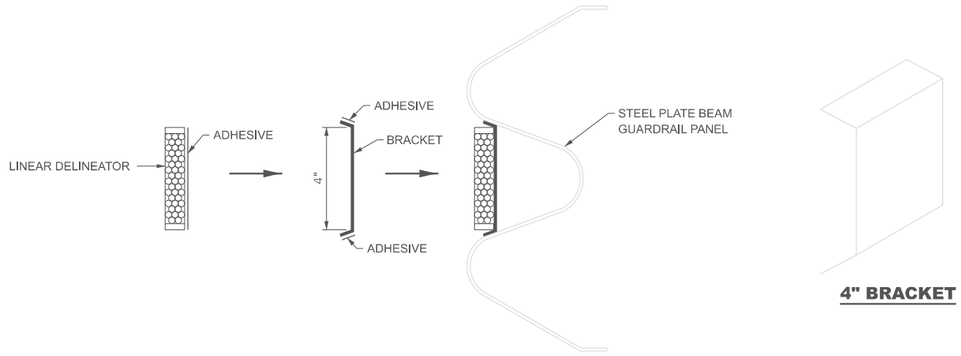
1. USE 6" D BLACK LETTERING ON FLUORESCENT ORANGE BACKGROUND.
2. ERECT SIGNS AT LOCATIONS IN ADVANCE OF THE "ROAD CONSTRUCTION AHEAD" SIGNS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN (1) WITH INSTALLED PANEL (2) A MINIMUM OF ONE WEEK PRIOR TO THE START OF THE ROAD CLOSURE.
4. REMOVE PANEL (2) ON THAT DATE.
5. SEE SPECIAL PROVISION "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. WILL BE PAID FOR PER SQ FT AS "TEMPORARY INFORMATION SIGNING". EACH SIGN = 21 SQ FT AND THE DATE PANEL (2) WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.

720-11



PAVEMENT MARKING

780-8



4" BRACKET

LINEAR DELINEATOR APPLICATION TO STANDARD GALVANIZED GUARDRAIL

LINEATOR DELINEATOR SHALL BE APLLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS

782-5

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EFK•Moen
Civil Engineering Design

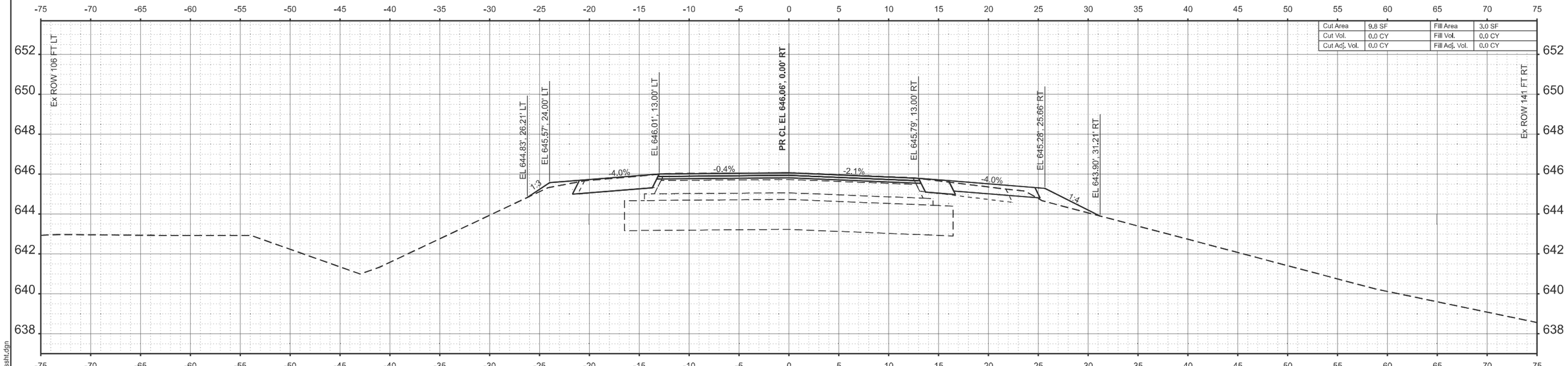
USER NAME = pgillespie	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 1/13/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 40 OVER HENNEPIN CANAL
DISTRICT 3 STANDARD DETAILS

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(104C-BR1)BR-1	BUREAU	62	49
		CONTRACT NO. 66M03		
	ILLINOIS FED. AID PROJECT			



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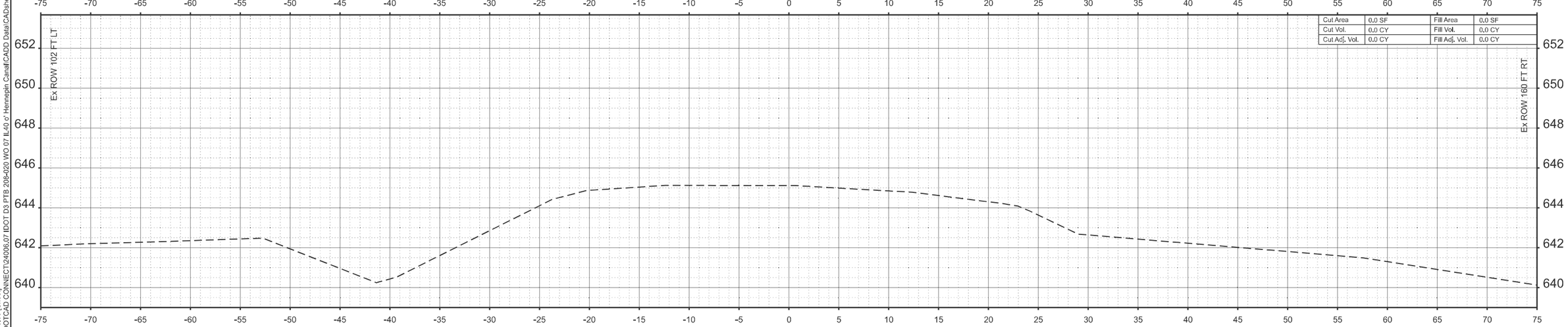

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EFK•Moen
Civil Engineering Design

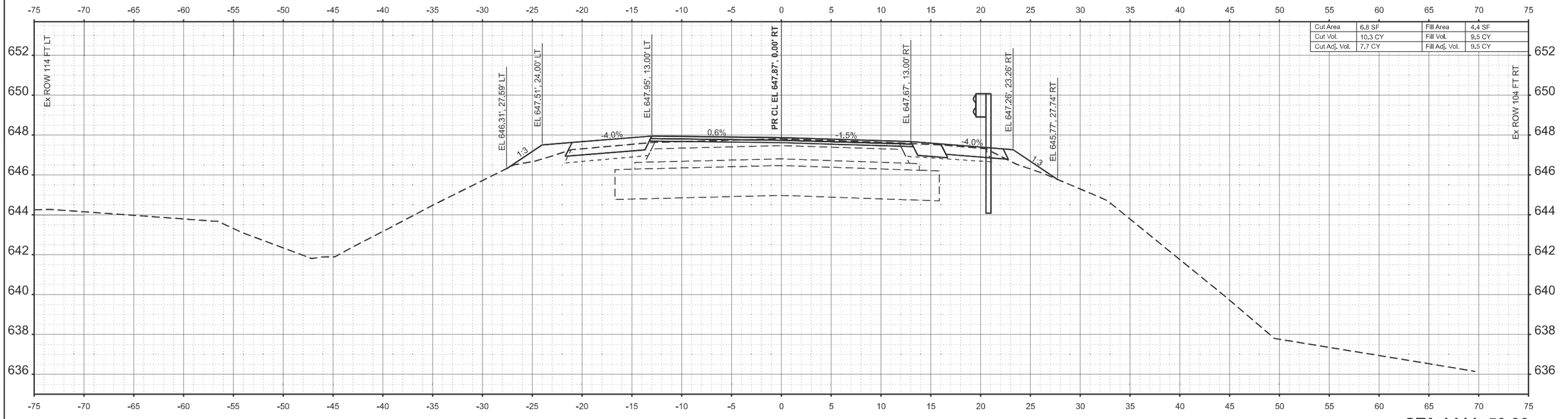
USER NAME = skierpiec	DESIGNED - JDB	REVISED -	
	DRAWN - SNK	REVISED -	
	CHECKED - RBB	REVISED -	
PLOT DATE = 1/14/2026	DATE - 1/14/2026	REVISED -	

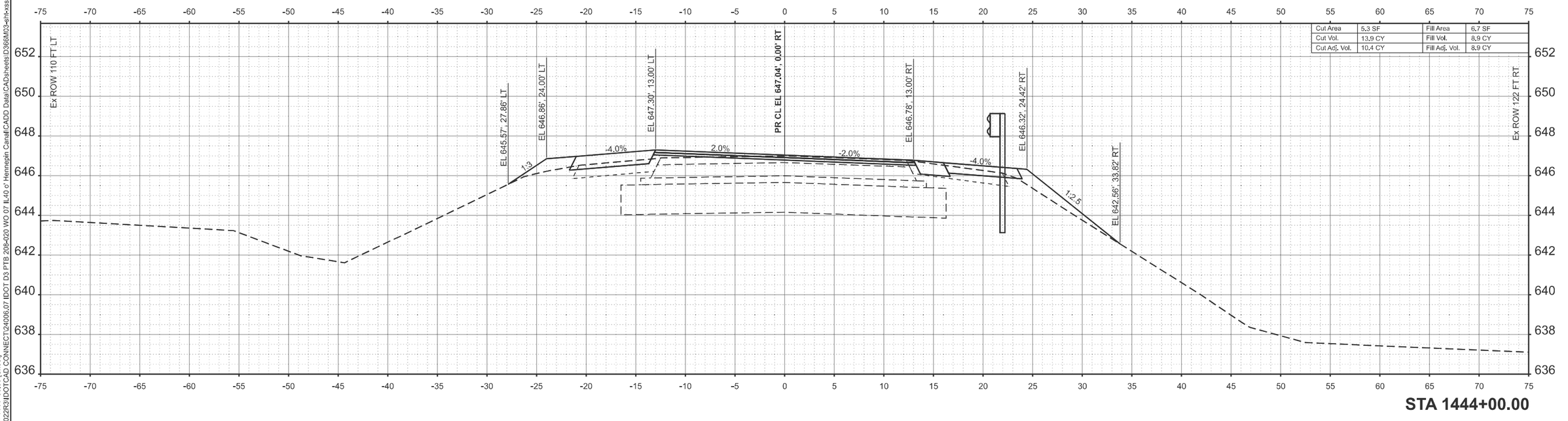
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 40 OVER HENNEPIN CANAL
CROSS SECTIONS - IL 40

SCALE: 1"=5' | SHEET 1 OF 13 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(104C-BR1)BR-1	BUREAU	62	50
		CONTRACT NO. 66M03		
	ILLINOIS FED. AID PROJECT			





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EFK•Moen
Civil Engineering Design

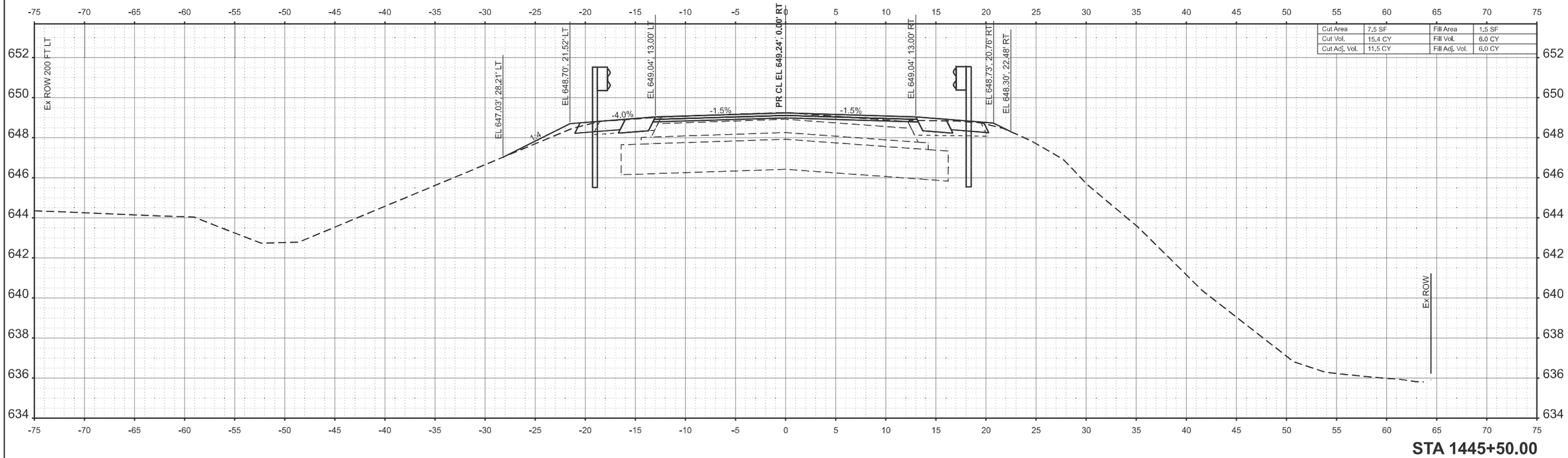
USER NAME = skierpiec	DESIGNED - JDB	REVISED -	
	DRAWN - SNK	REVISED -	
	CHECKED - RBB	REVISED -	
PLOT DATE = 1/14/2026	DATE - 1/14/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 40 OVER HENNEPIN CANAL
CROSS SECTIONS - IL 40

SCALE: 1"=5' | SHEET 2 OF 13 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(104C-BR1)BR-1	BUREAU	62	51
		CONTRACT NO. 66M03		
	ILLINOIS FED. AID PROJECT			



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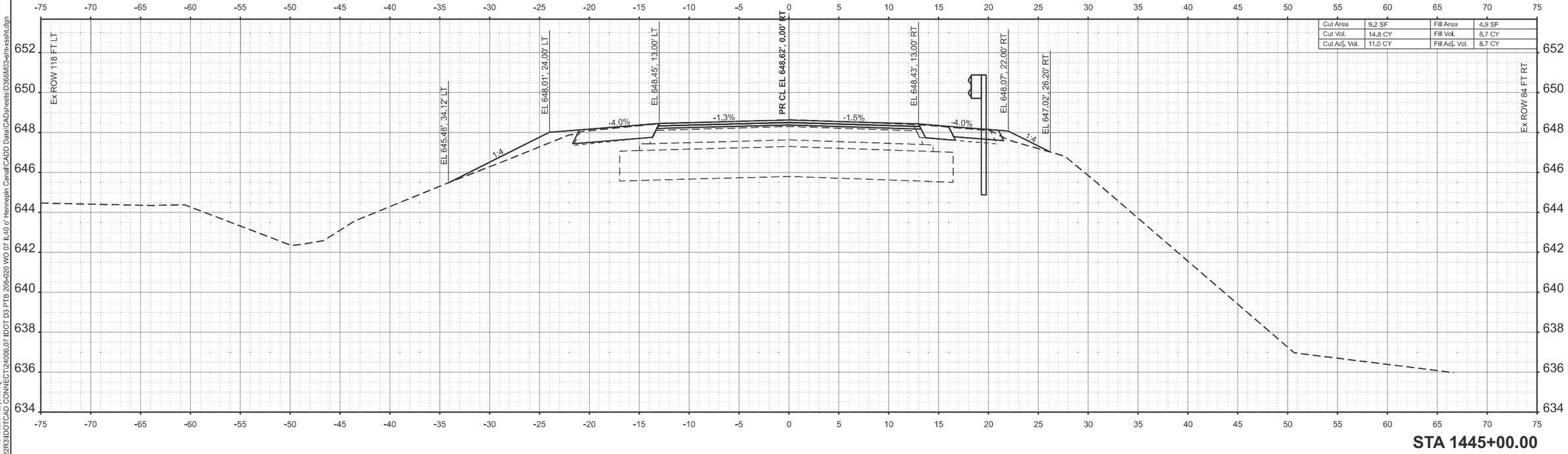

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EFK•Moen
Civil Engineering Design

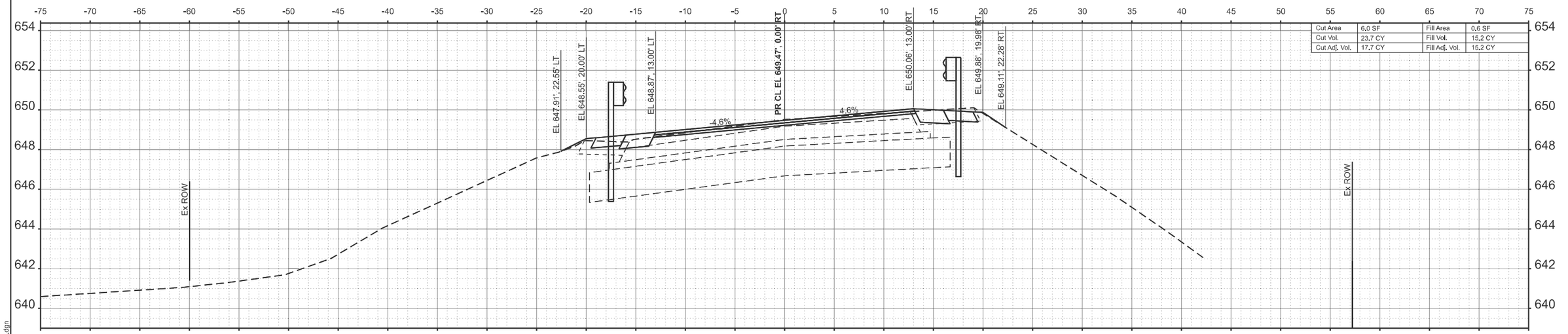
USER NAME = JBerggren	DESIGNED - JDB	REVISED -	
	DRAWN - SNK	REVISED -	
	CHECKED - RBB	REVISED -	
PLOT DATE = 2/3/2026	DATE - 1/14/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 40 OVER HENNEPIN CANAL
CROSS SECTIONS - IL 40

SCALE: 1"=5' | SHEET 3 OF 13 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(104C-BR1)BR-1	BUREAU	62	52
		CONTRACT NO. 66M03		
	ILLINOIS FED. AID PROJECT			



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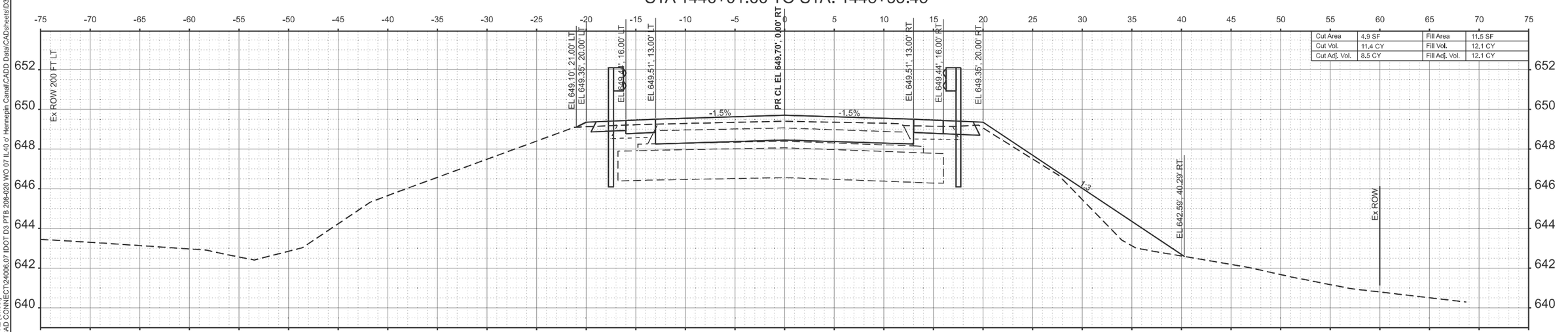
BRIDGE OMISSION

STA 1446+01.66 TO STA. 1448+33.45



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EFK•Moen
Civil Engineering Design

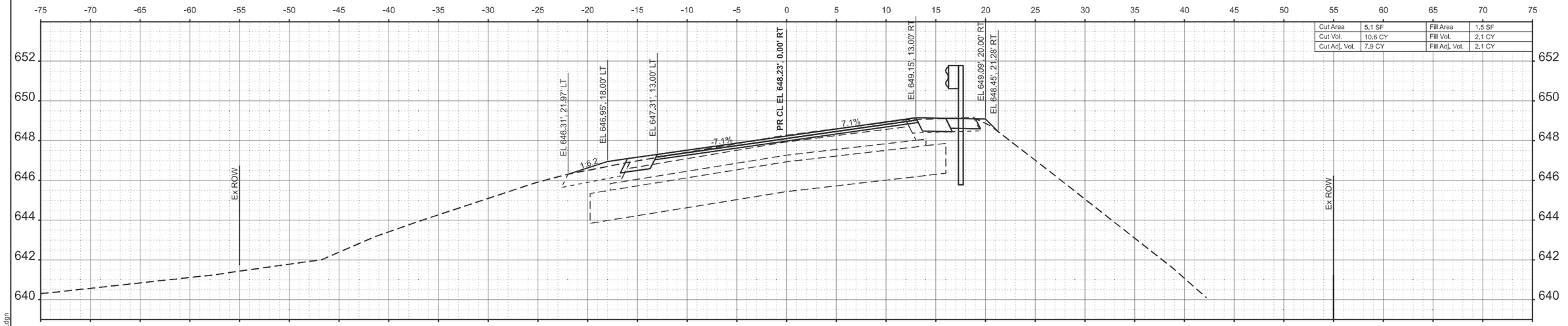
USER NAME = skierpiec	DESIGNED - JDB	REVISED -	
	DRAWN - SNK	REVISED -	
	CHECKED - RBB	REVISED -	
PLOT DATE = 1/14/2026	DATE - 1/14/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 40 OVER HENNEPIN CANAL
CROSS SECTIONS - IL 40

SCALE: 1"=5' | SHEET 4 OF 13 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(104C-BR1)BR-1	BUREAU	62	53
		CONTRACT NO. 66M03		
		ILLINOIS	FED. AID PROJECT	



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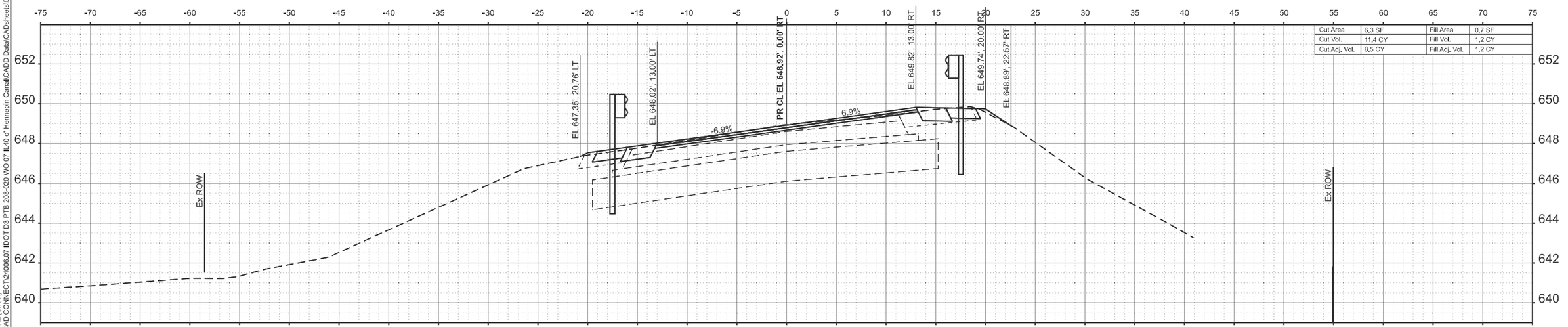

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EFK•Moen
Civil Engineering Design

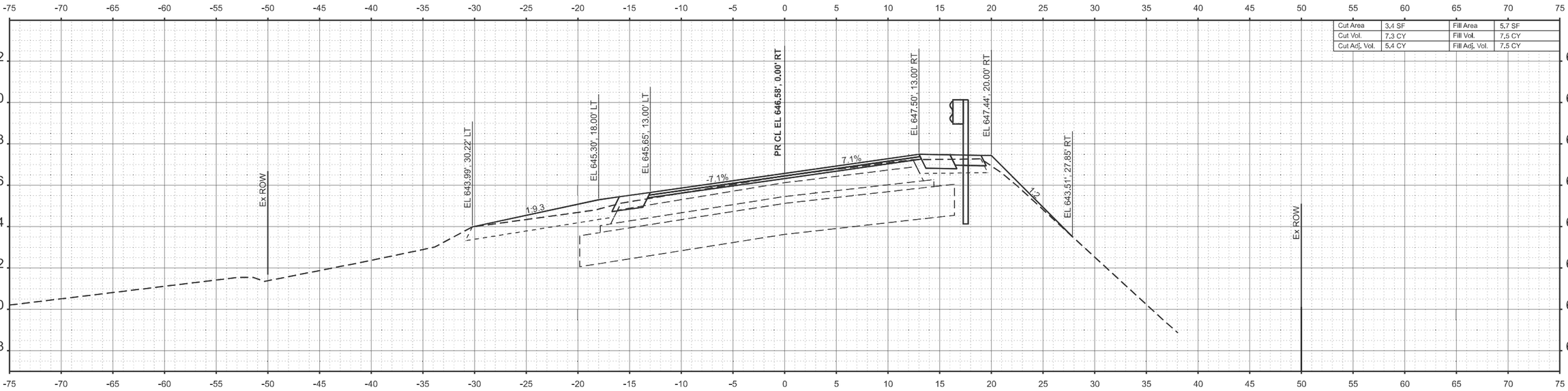
USER NAME = sklerplec	DESIGNED - JDB	REVISED -	
	DRAWN - SNK	REVISED -	
	CHECKED - RBB	REVISED -	
PLOT DATE = 1/14/2026	DATE - 1/14/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 40 OVER HENNEPIN CANAL
CROSS SECTIONS - IL 40

SCALE: 1"=5' | SHEET 5 OF 13 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(104C-BR1)BR-1	BUREAU	62	54
		CONTRACT NO. 66M03		
		ILLINOIS	FED. AID PROJECT	



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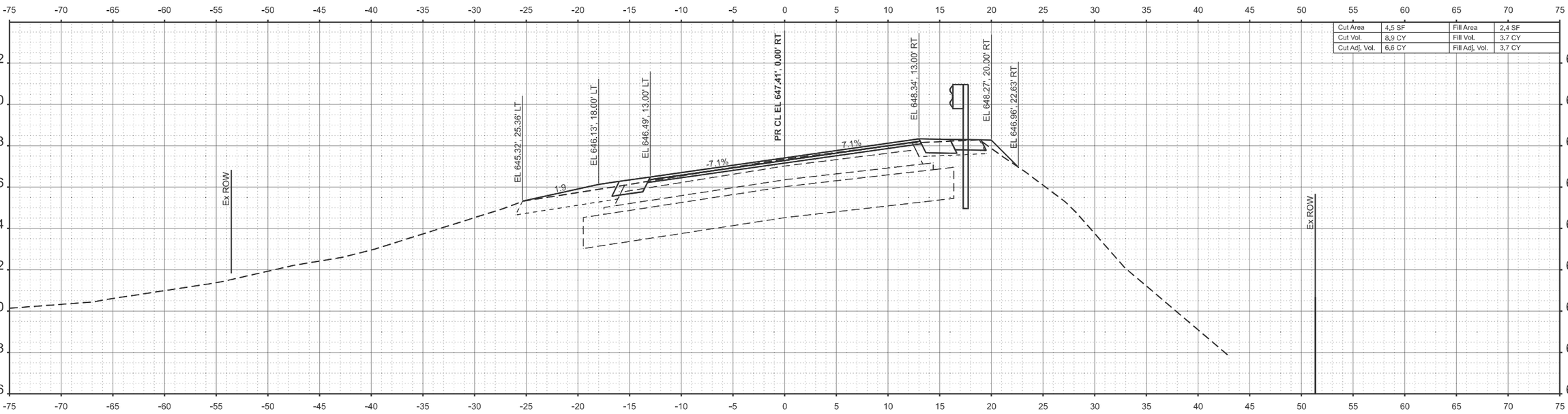

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EFK•Moen
Civil Engineering Design

USER NAME = skierpiec	DESIGNED - JDB	REVISED -	
	DRAWN - SNK	REVISED -	
	CHECKED - RBB	REVISED -	
PLOT DATE = 1/14/2026	DATE - 1/14/2026	REVISED -	

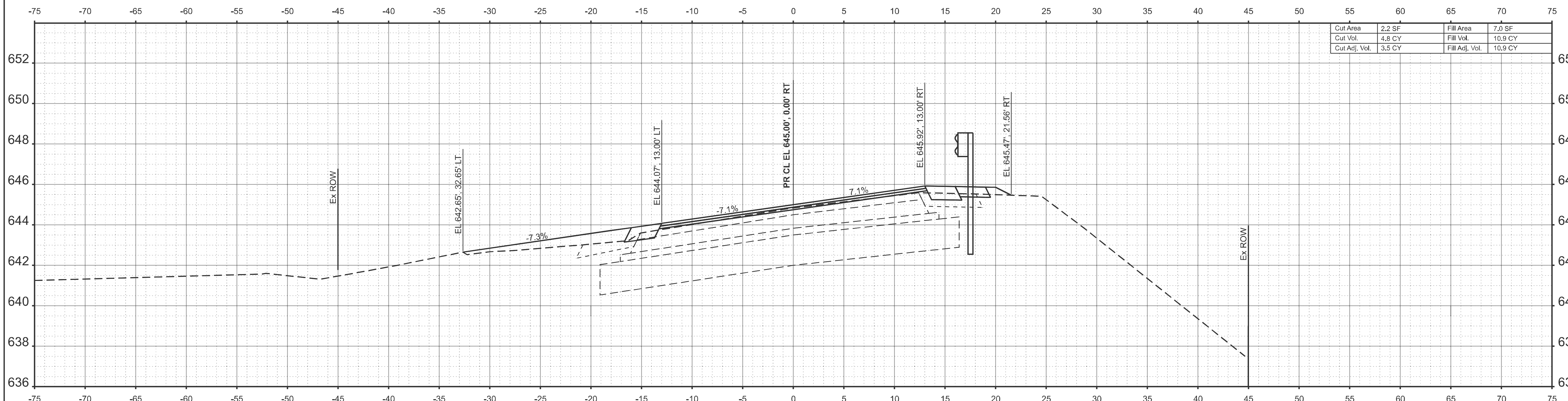
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 40 OVER HENNEPIN CANAL
CROSS SECTIONS - IL 40

SCALE: 1"=5' | SHEET 6 OF 13 SHEETS | STA. | TO STA.

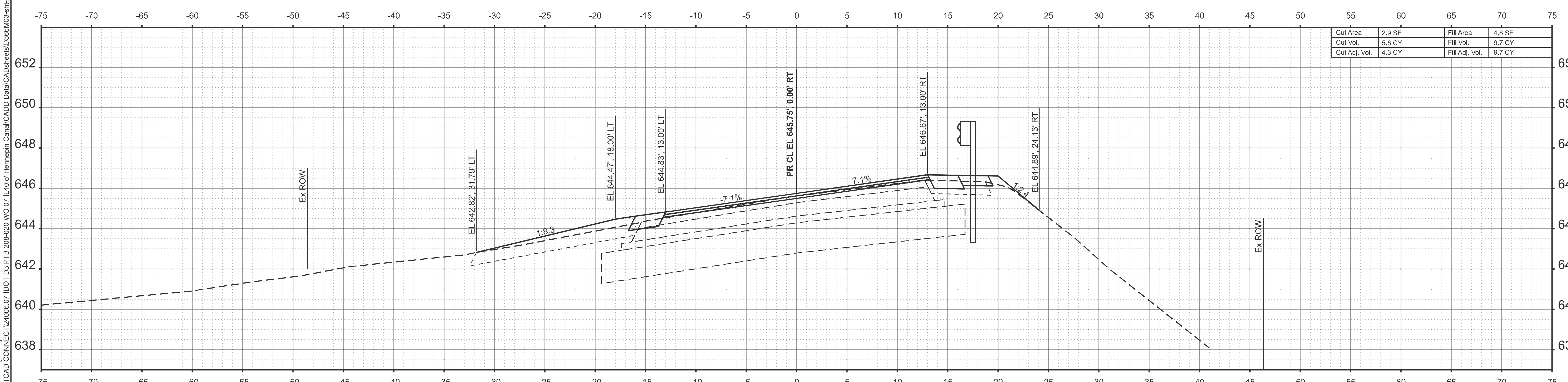
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(104C-BR1)BR-1	BUREAU	62	55
		CONTRACT NO. 66M03		
	ILLINOIS	FED. AID PROJECT		

Cut Area	2.2 SF	Fill Area	7.0 SF
Cut Vol.	4.8 CY	Fill Vol.	10.9 CY
Cut Adj. Vol.	3.5 CY	Fill Adj. Vol.	10.9 CY



STA 1452+00.00

Cut Area	2.9 SF	Fill Area	4.8 SF
Cut Vol.	5.8 CY	Fill Vol.	9.7 CY
Cut Adj. Vol.	4.3 CY	Fill Adj. Vol.	9.7 CY



STA 1451+50.00

MODEL: ExCL40 - 1451+50.00 R2 [Sheet]
FILE NAME: O:\2022R3\IDOTCAD CONNECT\24006.07 IDOT D3 PTB 208-020 WO 07 IL40 o' Hennepin Canal\CADD Data\CADsheets\D366M03-sht-xssht.dgn

EFK◆Moen
Civil Engineering Design

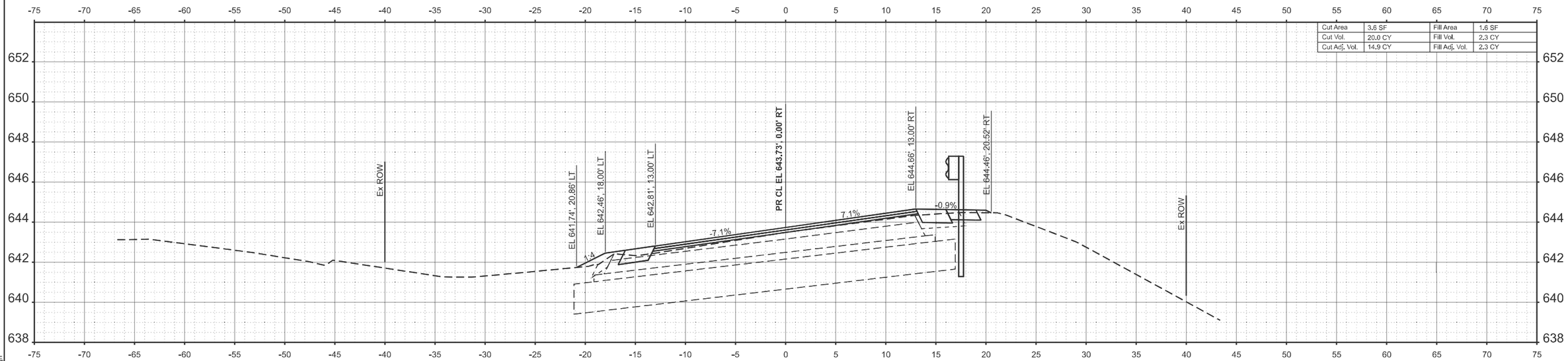
USER NAME = skierpiec	DESIGNED - JDB	REVISED -	
	DRAWN - SNK	REVISED -	
	CHECKED - RBB	REVISED -	
PLOT DATE = 1/14/2026	DATE - 1/14/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

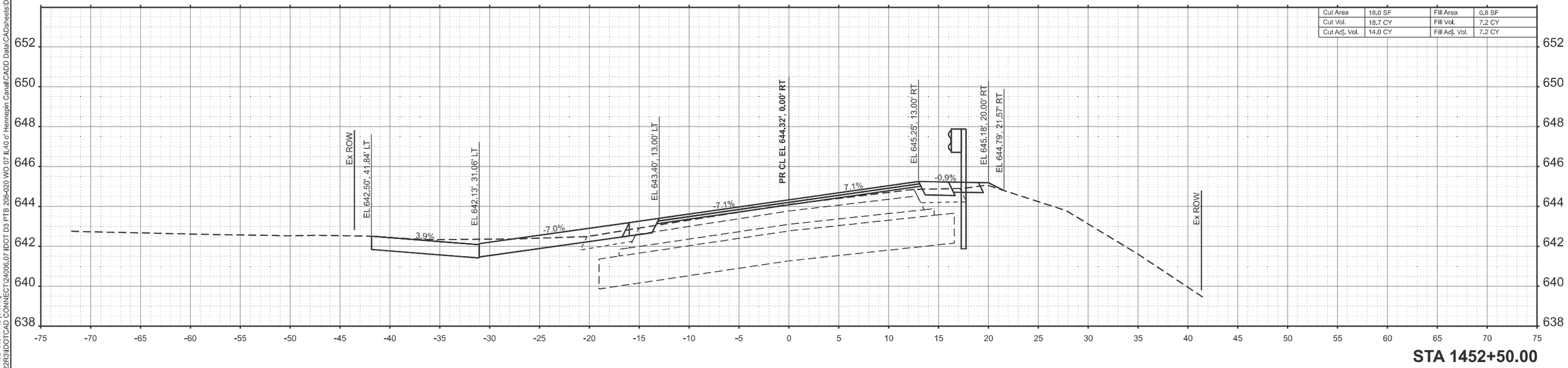
IL 40 OVER HENNEPIN CANAL
CROSS SECTIONS - IL 40

SCALE: 1"=5' | SHEET 7 OF 13 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(104C-BR1)BR-1	BUREAU	62	56
		CONTRACT NO. 66M03		
		ILLINOIS	FED. AID PROJECT	



STA 1453+00.00



STA 1452+50.00

MODEL: ExCL40 - 1452+50.00 R2 [Sheet]
FILE NAME: O:\2022R3\IDOTCAD CONNECT\24006.07 IDOT D3 PTB 209-020 WO 07 IL40 o' Hennepin Canal\CADD Data\CADsheets\D366M03-sht-xssht.dgn

EFK•Moen
Civil Engineering Design

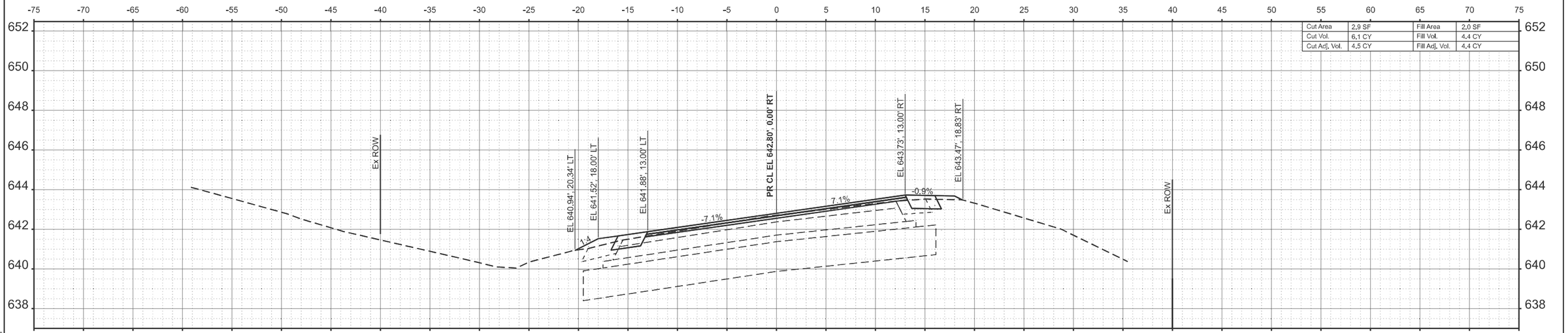
USER NAME = skierpiec	DESIGNED - JDB	REVISED -	
	DRAWN - SNK	REVISED -	
	CHECKED - RBB	REVISED -	
PLOT DATE = 1/14/2026	DATE - 1/14/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

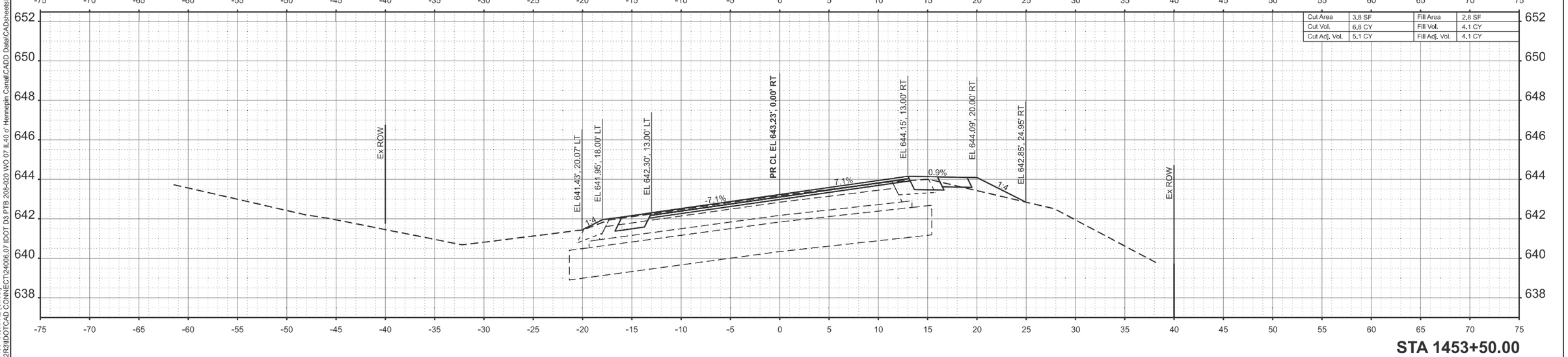
IL 40 OVER HENNEPIN CANAL
CROSS SECTIONS - IL 40

SCALE: 1"=5' | SHEET 8 OF 13 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(104C-BR1)BR-1	BUREAU	62	57
		CONTRACT NO. 66M03		
		ILLINOIS	FED. AID PROJECT	



STA 1454+00.00



STA 1453+50.00

MODEL: ExCL40 - 1453+50.00 R2 [Sheet]
FILE NAME: Q:\2022R3\IDOTCAD CONNECT\24006.07 IDOT D3 PTB 208-020 WO 07 IL40 o' Hennepin Canal\CADD Data\CADsheets\D366M03-ehl-xssht.dgn

EFK•Moen
Civil Engineering Design

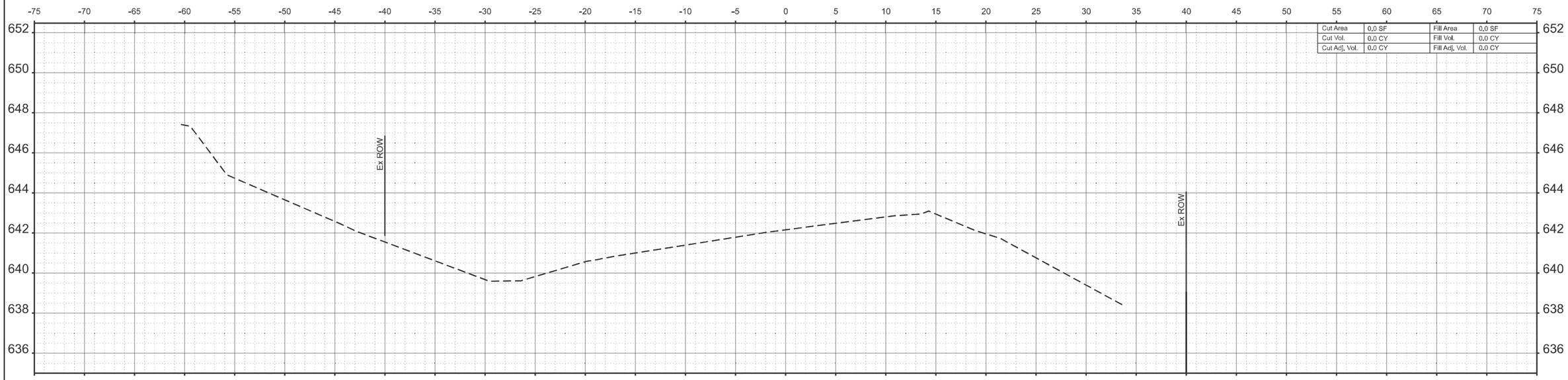
USER NAME = skierpiec	DESIGNED - JDB	REVISED -	
	DRAWN - SNK	REVISED -	
	CHECKED - RBB	REVISED -	
PLOT DATE = 1/14/2026	DATE - 1/14/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

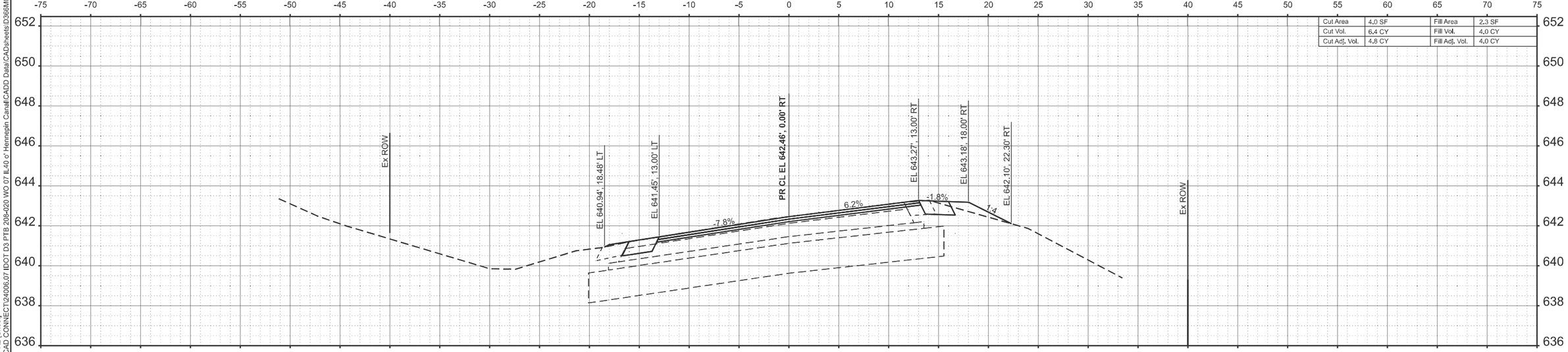
IL 40 OVER HENNEPIN CANAL
CROSS SECTIONS - IL 40

SCALE: 1"=5' | SHEET 9 OF 13 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(104C-BR1)BR-1	BUREAU	62	58
		CONTRACT NO. 66M03		
		ILLINOIS	FED. AID PROJECT	



STA 1455+00.00



STA 1454+50.00

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Civil Engineering Design

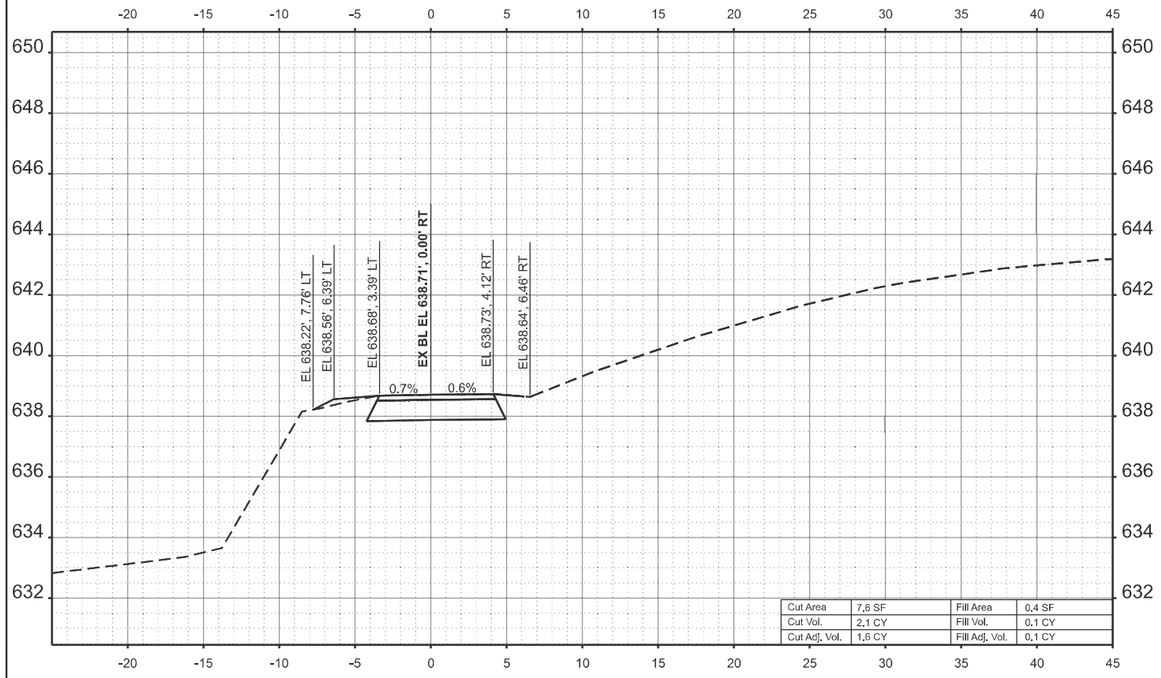
USER NAME = pgillespie	DESIGNED - JDB	REVISED -	
	DRAWN - SNK	REVISED -	
	CHECKED - RBB	REVISED -	
PLOT DATE = 1/14/2026	DATE - 1/14/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

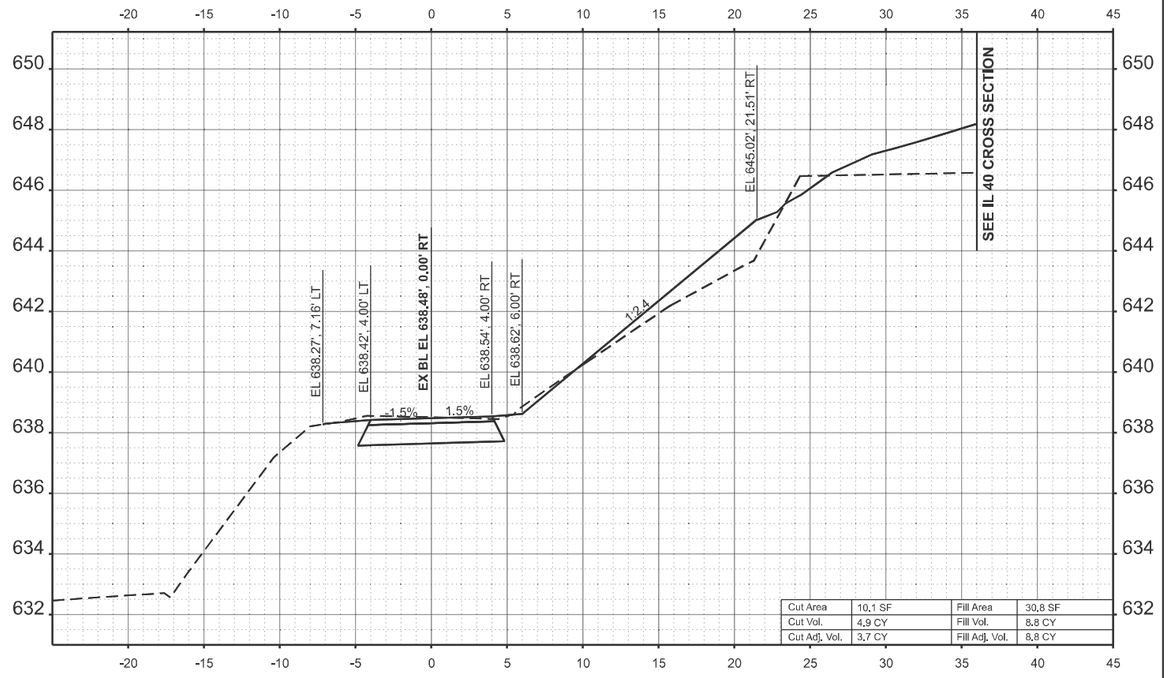
IL 40 OVER HENNEPIN CANAL
CROSS SECTIONS - IL 40

SCALE: 1"=5' | SHEET 10 OF 13 SHEETS | STA. | TO STA.

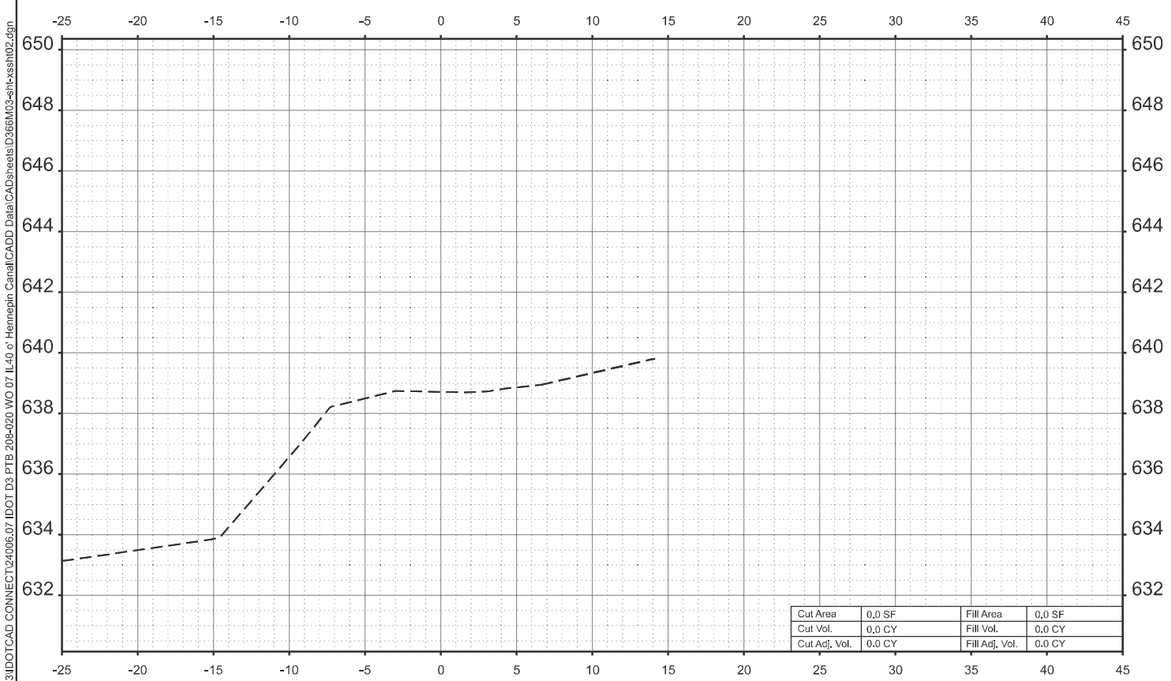
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(104C-BR1)BR-1	BUREAU	62	59
		CONTRACT NO. 66M03		
		ILLINOIS	FED. AID PROJECT	



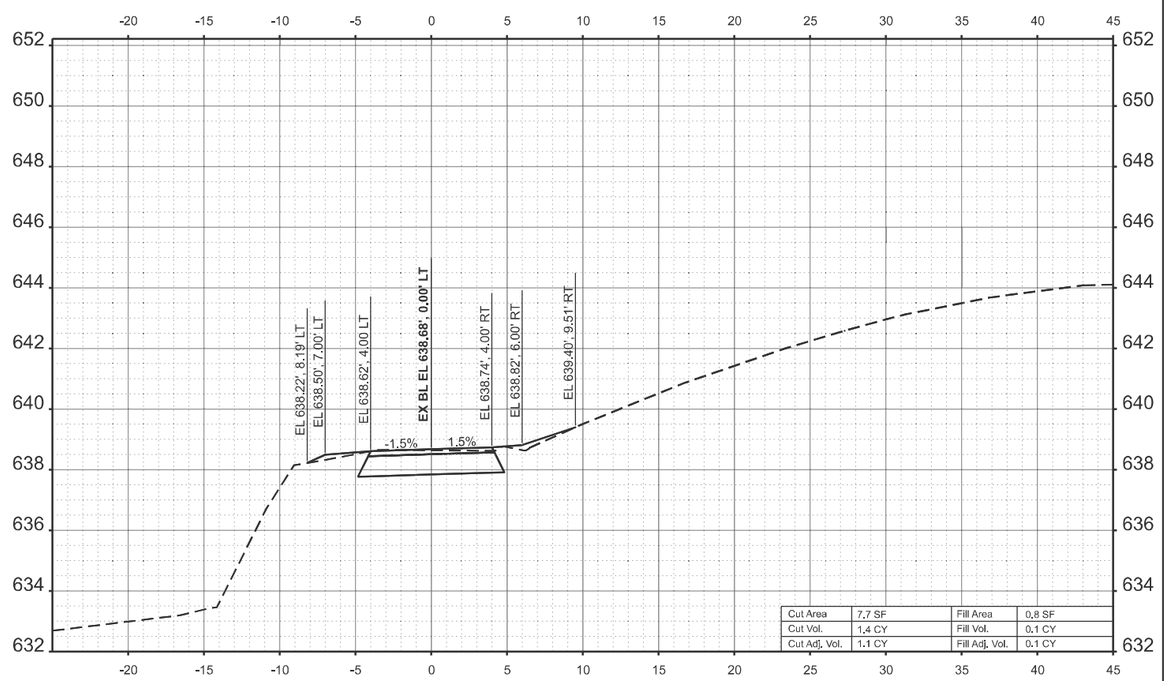
STA 14+55.00



STA 14+75.00



STA 14+40.00



STA 14+60.00

MODEL: XSC1
FILE NAME: O:\2022R3\IDOTCAD CONNECT\240006.07 IDOT D3 PTB 208-020 WO 07 IL40 o' Hennepin Canal\CADD Data\CADSheets\D366M03-ehl+xssht02.dgn

EFK•Moen
Civil Engineering Design

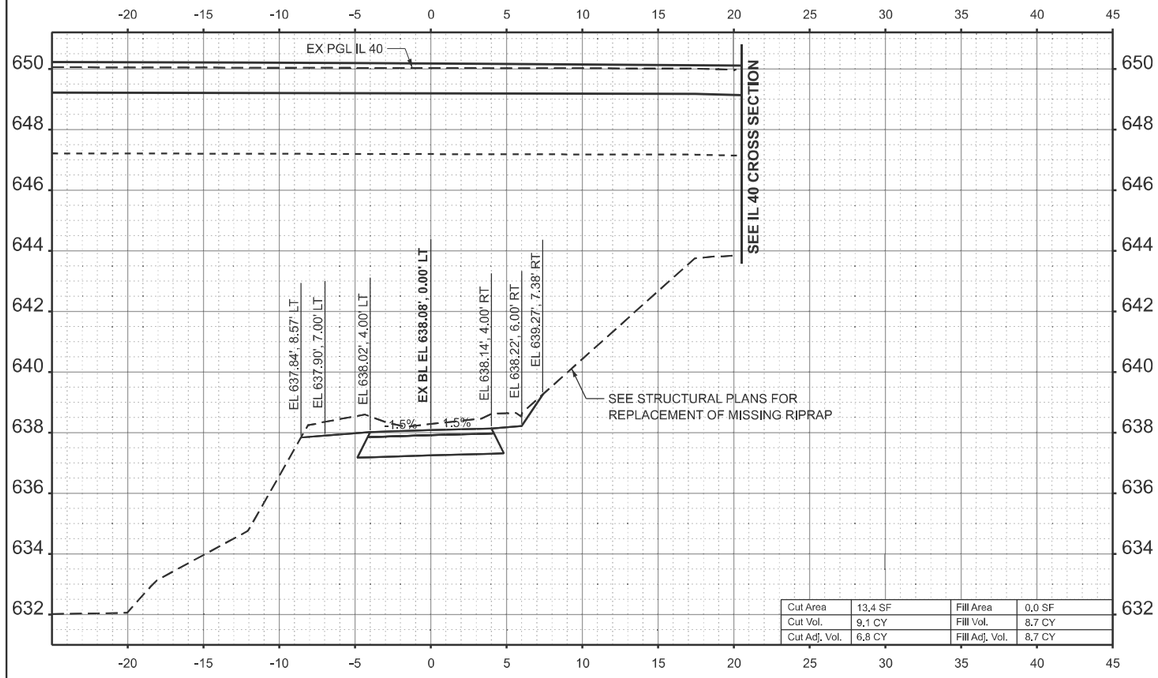
USER NAME = cbelew	DESIGNED - JDB	REVISED -	
	DRAWN - SNK	REVISED -	
	CHECKED - RBB	REVISED -	
PLOT DATE = 1/14/2026	DATE - 1/14/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 40 OVER HENNEPIN CANAL
CROSS SECTIONS - HENNEPIN CANAL TRAIL

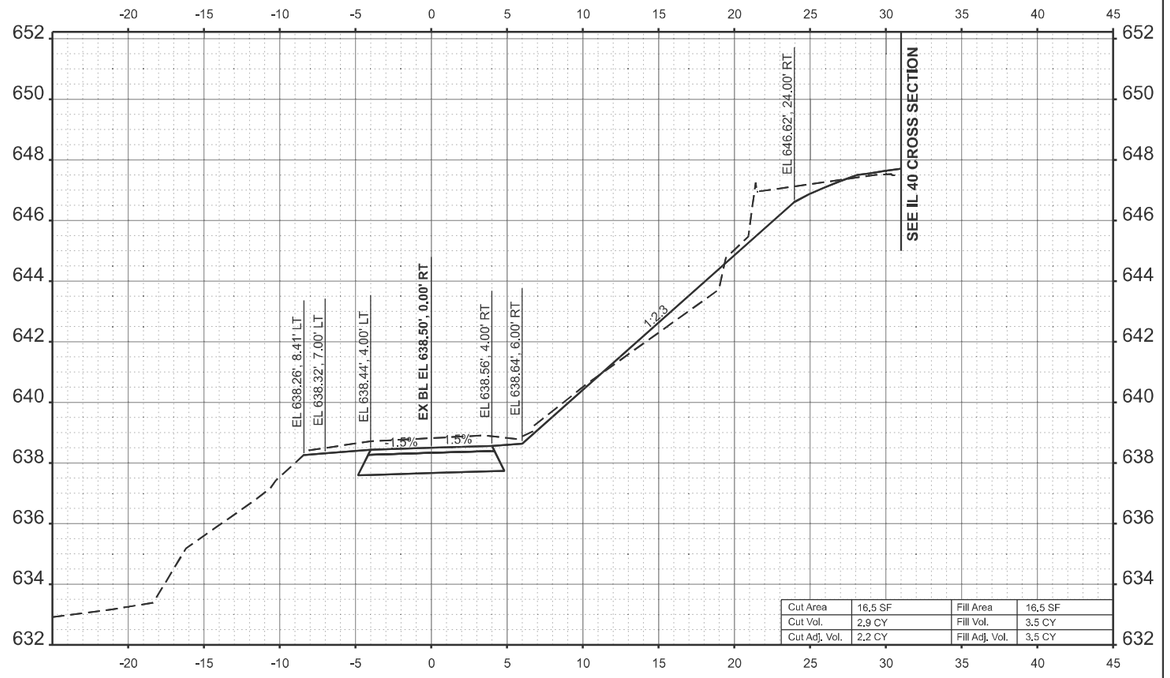
SCALE: 1"=5' | SHEET 11 OF 13 SHEETS | STA. 14+40.00 | TO STA. 14+75.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(104C-BR1)BR-1	BUREAU	62	60
		CONTRACT NO. 66M03		
	ILLINOIS	FED. AID PROJECT		



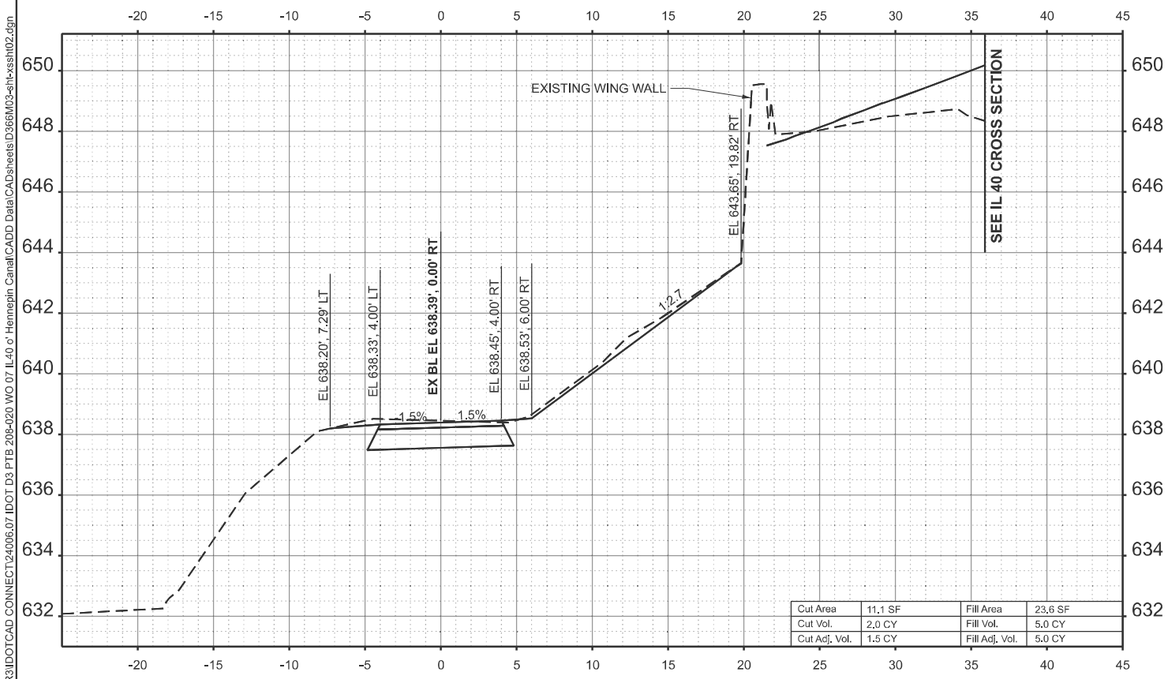
Cut Area	13,4 SF	Fill Area	0,0 SF
Cut Vol.	9,1 CY	Fill Vol.	8.7 CY
Cut Adj. Vol.	6,8 CY	Fill Adj. Vol.	8,7 CY

STA 15+00.00



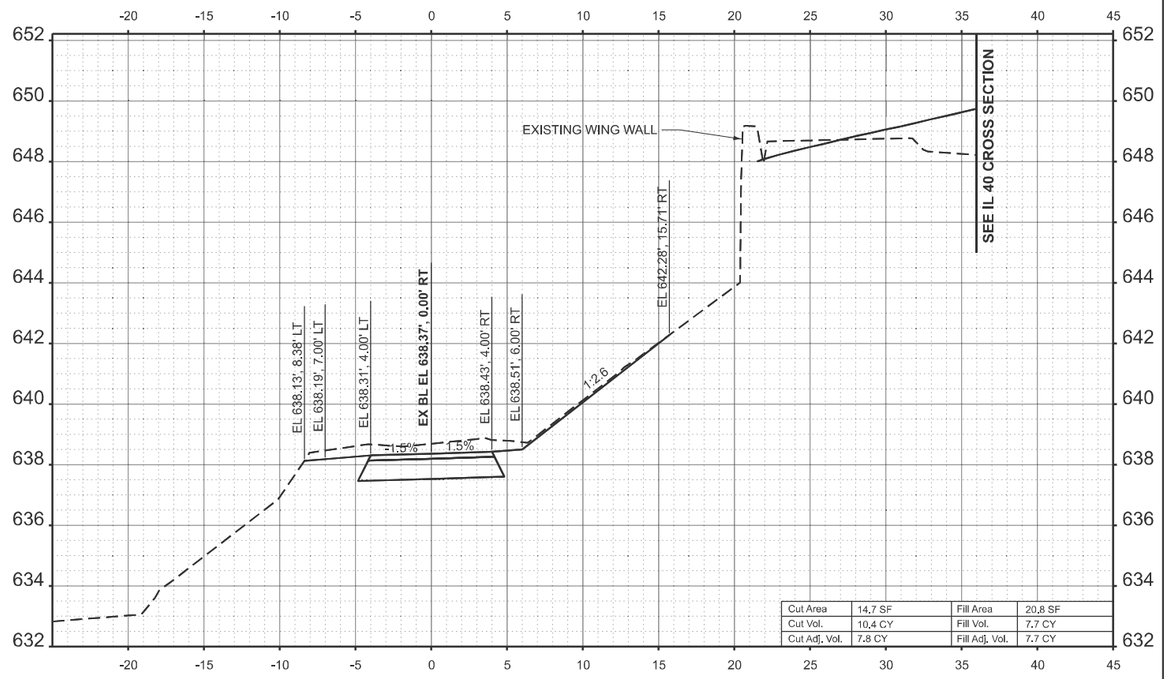
Cut Area	16,5 SF	Fill Area	16,5 SF
Cut Vol.	2,9 CY	Fill Vol.	3.5 CY
Cut Adj. Vol.	2,2 CY	Fill Adj. Vol.	3,5 CY

STA 15+25.00



Cut Area	11,1 SF	Fill Area	23,6 SF
Cut Vol.	2,0 CY	Fill Vol.	5,0 CY
Cut Adj. Vol.	1.5 CY	Fill Adj. Vol.	5,0 CY

STA 14+80.00



Cut Area	14,7 SF	Fill Area	20,8 SF
Cut Vol.	10,4 CY	Fill Vol.	7,7 CY
Cut Adj. Vol.	7.8 CY	Fill Adj. Vol.	7.7 CY

STA 15+20.00

MODEL: XSC2
FILE NAME: O:\2022R3\IDOTCAD CONNECT\24006.07 IDOT D3 PTB 208-020 WO 07 IL40 o' Hennepin Canal\CADD Data\CADSheets\ D366M03-ehl+xssht02.dgn

EFK•Moen
Civil Engineering Design

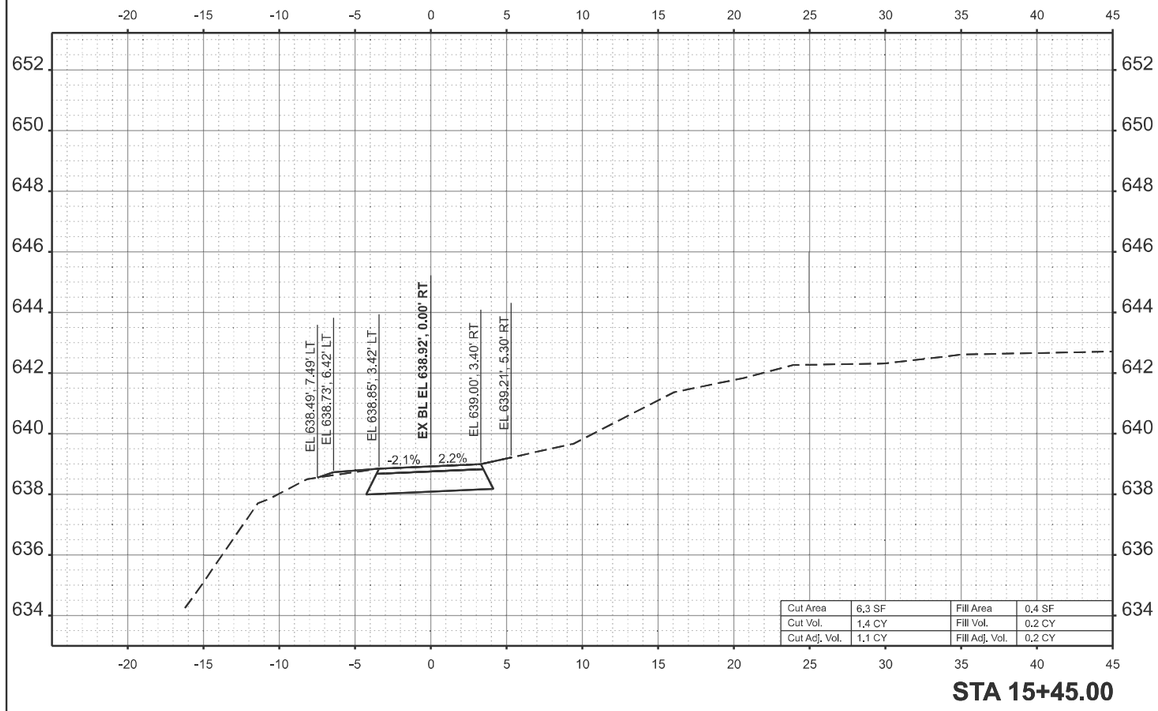
USER NAME = ZWaters	DESIGNED - JDB	REVISED -	
	DRAWN - SNK	REVISED -	
	CHECKED - RBB	REVISED -	
PLOT DATE = 1/14/2026	DATE - 1/14/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

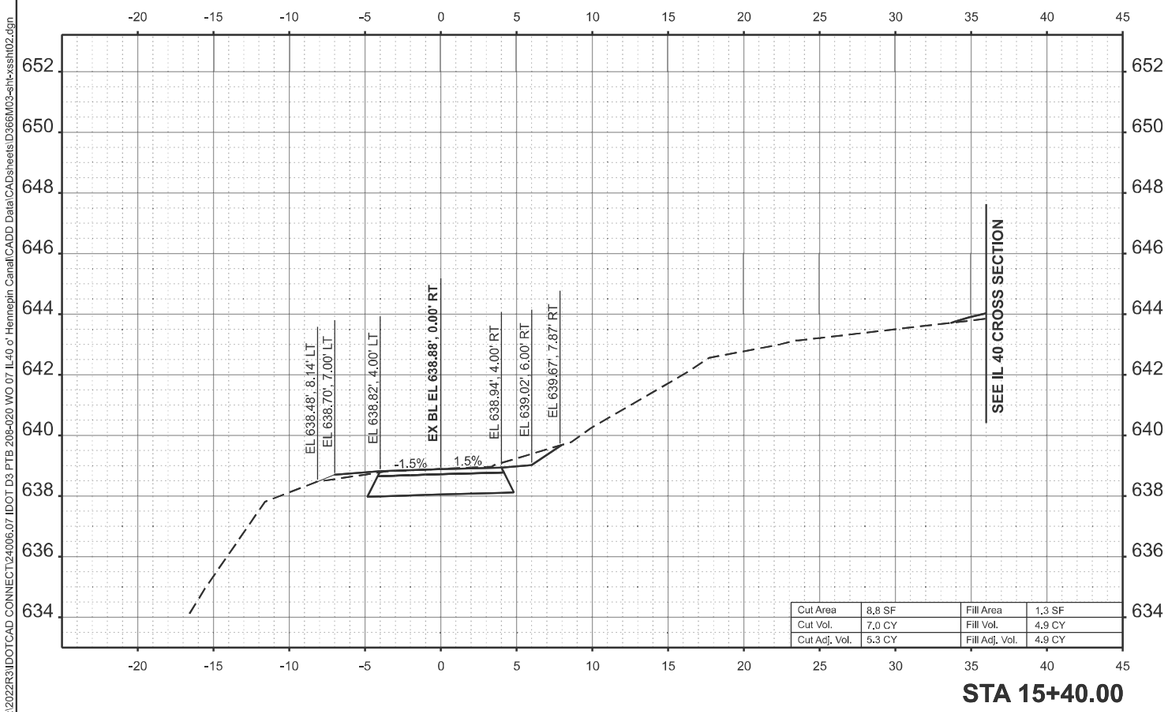
IL 40 OVER HENNEPIN CANAL
CROSS SECTIONS - HENNEPIN CANAL TRAIL

SCALE: 1"=5' | SHEET 12 OF 13 SHEETS | STA. 14+80.00 TO STA. 15+25.00

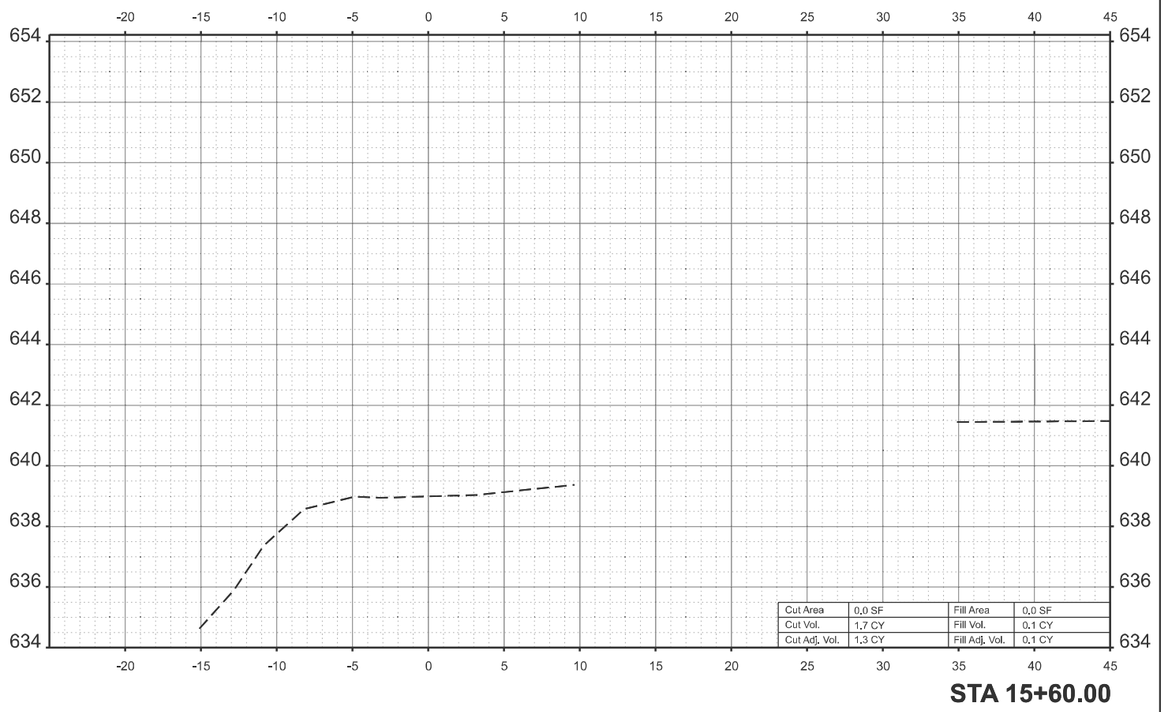
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(104C-BR1)BR-1	BUREAU	62	61
		CONTRACT NO. 66M03		
	ILLINOIS FED. AID PROJECT			



STA 15+45.00



STA 15+40.00



STA 15+60.00

MODEL: XSC3
FILE NAME: O:\2022R3\IDOTCAD CONNECT\24006.07 IDOT D3 PTB 208-020 WO 07 IL40 o' Hennepin Canal\CADD Data\CADSheets\D366M03-ehl+xssht02.dgn

EFK•Moen
Civil Engineering Design

USER NAME = ZWaters	DESIGNED - JDB	REVISED -	
	DRAWN - SNK	REVISED -	
	CHECKED - RBB	REVISED -	
PLOT DATE = 1/14/2026	DATE - 1/14/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 40 OVER HENNEPIN CANAL
CROSS SECTIONS - HENNEPIN CANAL TRAIL

SCALE: 1"=5' | SHEET 13 OF 13 SHEETS | STA. 15+40.00 TO STA. 15+60.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	(104C-BR1)BR-1	BUREAU	62	62
		CONTRACT NO. 66M03		
	ILLINOIS	FED. AID PROJECT		