11-5-2021 LETTING ITEM 035

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(135B-1)ES	BUREAU	84	1
	ILLINOIS	CONTRACT NO. 66H26		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED
HIGHWAY PLANS

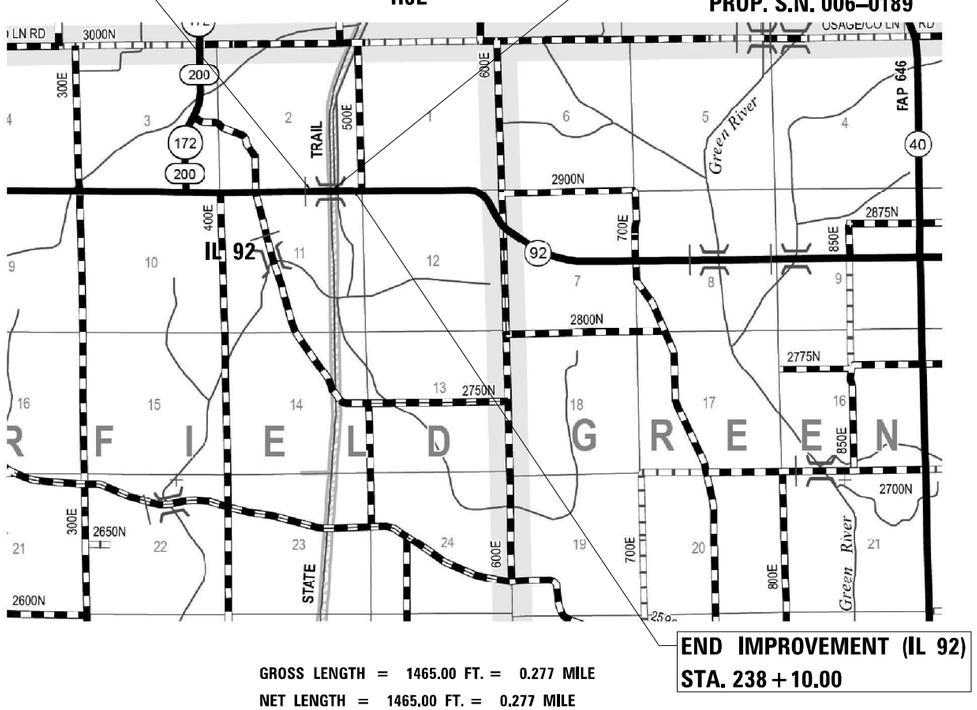
FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2

FAP 587 (IL 92)
SECTION (135B–1)BR
PROJECT NO. STP–8EV2(971)
BRIDGE REPLACEMENT
BUREAU COUNTY
C–93–073–21

TRAFFIC DATA – IL 92
MAJOR COLLECTOR
2017 ADT = 450 PROJ. 2040 ADT = 554
P.V. = 88.9% S.U. = 6.7% M.U. = 4.4%

BEGIN IMPROVEMENT (IL 92)
STA. 223 + 45.00

BRIDGE REMOVAL AND REPLACEMENT
STA. 230 + 74.26
EXIST. S.N. 006–0096
PROP. S.N. 006–0189



END IMPROVEMENT (IL 92)
STA. 238 + 10.00

N

LOCATION MAP
NOT TO SCALE

GROSS LENGTH = 1465.00 FT. = 0.277 MILE
NET LENGTH = 1465.00 FT. = 0.277 MILE

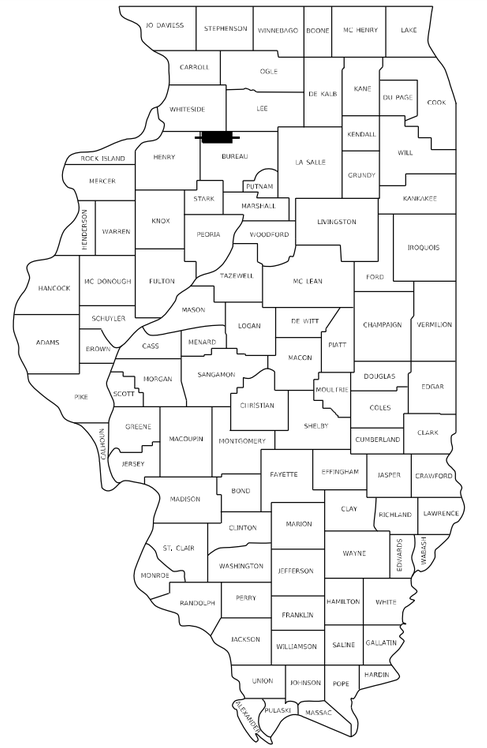
100′ 200′ 300′ — 1″ = 100′
0 10′ 20′ 30′ — 1″ = 10′
0 50′ 100′ — 1″ = 50′
0 50′ 100′ — 1″ = 40′
0 50′ 100′ — 1″ = 30′
0 50′ 100′ — 1″ = 20′

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

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

DISTRICT 3 NO. (815) 434–6131
PROJECT ENGINEER: BRAD DUNCAN, P.E.
UNIT CHIEF: LUIS CALDERON, P.E.
TOWNSHIP(S): FAIRFIELD TOWNSHIP
CONTRACT NO. 66H26

P-93-022-18



LOCATION OF SECTION INDICATED THUS: –

EFK•Moen
Civil Engineering Design

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED August 11, 20 21
Thomas Elwood
REGIONAL ENGINEER
October 1 20 21
ENGINEER OF DESIGN AND ENVIRONMENT
October 20 21
Stephen M Travis
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS

HIGHWAY STANDARDS

000001-08 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

420406 PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB

424026-03 ENTRANCE/ALLEY PEDESTRIAN CROSSINGS

482001-02 HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT

515001-04 NAME PLATE FOR BRIDGES

542301-03 PRECAST REINFORCED CONCRETE FLARED END SECTION

542401-04 METAL FLARED END SECTION FOR PIPE CULVERTS

601001-05 PIPE UNDERDRAINS

601101-02 CONCRETE HEADWALL FOR PIPE UNDERDRAINS

630001-12 STEEL PLATE BEAM GUARDRAIL

630201-07 PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL

630301-09 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS

631031-17 TRAFFIC BARRIER TERMINAL, TYPE 6

701001-02 OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 M) AWAY

701006-05 OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE

701011-04 OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY

701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS

701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY

701901-08 TRAFFIC CONTROL DEVICES

720001-01 SIGN PANEL MOUNTING DETAILS

720006-04 SIGN PANEL ERECTION DETAILS

725001-01 OBJECT AND TERMINAL MARKERS

780001-05 TYPICAL PAVEMENT MARKINGS

781001-04 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

782006-01 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

BLR 21-9 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

RYAN CALL
062-064397
LICENSED PROFESSIONAL ENGINEER
OF
ILLINOIS

Signed: _____
Date: 07/29/2021
License Expires: 11/30/2021
The seal shown above is valid for Sheets 01-37, and 59-84.

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

Signed: Alex C. Benz
Date: 07/29/2021
License Expires: 11/30/2022
The seal shown above is valid for Sheets 38-58.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE
AS BUILT INFORMATION

_____
SUPERVISING CONSTRUCTION FIELD ENGINEER

_____
RESIDENT ENGINEER / TECHNICIAN

START & END DATES OF CONSTRUCTION: _____

INSPECTORS: _____

_____

_____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE

PREPARED BY: _____

DATE: _____

EXAMINED BY: _____
DISTRICT CONSTRUCTION ENGINEER

_____
DISTRICT MATERIALS ENGINEER

_____
DISTRICT OPERATIONS ENGINEER

MODEL: Default
FILE NAME: Z:\2002709 IDOT D3 PTB 194-027 W09 IL 92 over Hennepin Canal Feeder\DGN\Design\Preliminary\Plansets\D3661H26-sht-gennote.dgn

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 92 OVER HENNEPIN CANAL FEEDER
INDEX AND HIGHWAY STANDARDS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(135B-1)BR	BUREAU	84	2
		CONTRACT NO. 66H26		
	ILLINOIS	FED. AID PROJECT		

GENERAL NOTES

HMA SURFACE OF ALL MAILBOX TURNOUTS, PRIVATE ENTRANCES, COMMERCIAL ENTRANCES, AND SIDE ROADS SHALL BE MADE NEATLY, IN A WORKMANLIKE MANNER, AND SHALL ACCURATELY CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. IF REQUIRED BY THE ENGINEER, THE CONTRACTOR SHALL SAW CUT THE HMA SURFACE TO CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. THIS WORK WILL BE INCLUDED IN THE COST OF THE HMA SURFACE.

EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.

BEFORE ORDERING PIPE CULVERTS OR PIPE DRAINS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR EXACT LENGTHS.

THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.

FOR STABILIZATION, ALL TYPE III BARRICADES WILL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.

ALL ELEVATIONS REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

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

MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:
- AT&T
- COMED
- FRONTIER
- NORTHERN BORDER

THE CONTRACTOR SHALL CONTACT JULIE AT LEAST 48 HOURS PRIOR TO EXCAVATION TO DETERMINE WHICH UTILITIES ARE IN THE AREA.

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.

REMOVAL OF EXISTING STRUCTURES:
A UTILITY LINE (FRONTIER) IS CURRENTLY ATTACHED TO THE SOUTH SIDE OF THE STRUCTURE. THE CONTRACTOR SHALL VERIFY WITH FRONTIER IF THE LINE IS INACTIVE PRIOR TO REMOVAL. THE REMOVAL OF THIS LINE AND ANY NEARBY LINES INTERFERING WITH THE PROPOSED CONSTRUCTION OF THE NEW STRUCTURE SHALL BE CONSIDERED AS INCLUDED IN THE COST OF THE REMOVAL OF THE EXISTING STRUCTURES.

STAGING OF CONSTRUCTION EQUIPMENT AND MATERIALS ON IDNR PROPERTY:
NO STAGING OR STORAGE OF CONSTRUCTION MATERIALS WILL BE ALLOWED ON IDNR PROPERTY UNLESS APPROVED BY THE PROPERTY OWNER. IF PERMISSION IS GRANTED, DAMAGES DUE TO STORAGE / STAGING SHALL BE REPAIRED AT NO COST TO THE DEPARTMENT AND PROPERTY OWNERS.

EXISTING SIGNS:
SIGNS REMOVED AND NOT REPLACED SHALL BE RETURNED TO IDOT DISTRICT 3.

COMMITMENTS

TREES OVER 3 INCH DIAMETER AT BREAST HEIGHT SHALL NOT BE CLEARED FROM APRIL 1ST TO SEPTEMBER 30TH

THE HENNEPIN CANAL TRAIL MUST BE OPENED FROM 9/30/2022 TO 10/2/2022 FOR HENNEPIN 100 RACE. CONSTRUCTION ACTIVITIES SHALL BE ADJUSTED TO COMPLY WITH THIS REQUIREMENT.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 92 OVER HENNEPIN CANAL FEEDER
GENERAL NOTES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(135B-1)BR	BUREAU	84	3
		CONTRACT NO. 66H26		
	ILLINOIS	FED. AID PROJECT		

					CONSTRUCTION CODE			
					80% FEDERAL 20% STATE	80% FEDERAL 20% STATE	80% FEDERAL 20% STATE	100% IDNR
					ROADWAY	SAFETY	BRIDGE	PARK ROADS
	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004	0021	0010	0005
					RURAL	RURAL	S.N. 006-0189	RURAL
	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	60	60			
	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	77	77			
	20200100	EARTH EXCAVATION	CU YD	1435	1240			195
*	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	2890	2890			
	20400800	FURNISHED EXCAVATION	CU YD	17248	17248			
	25000115	SEEDING, CLASS 1B	ACRE	0.75	0.75			
	25000210	SEEDING, CLASS 2A	ACRE	2.5	2.5			
	25000300	SEEDING, CLASS 3	ACRE	0.25	0.25			
	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	261	261			
	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	261	261			
	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	261	261			
	25100630	EROSION CONTROL BLANKET	SQ YD	13739	13739			
	25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	310	310			
	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	868	868			

*= SPECIALTY ITEM

* DENOTES SPECIAL PROVISION REQUIRED

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 92 OVER HENNEPIN CANAL FEEDER
SUMMARY OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(1358-1)BR	BUREAU	84	4
		CONTRACT NO. 66H26		
	ILLINOIS	FED. AID PROJECT		

REV. 9/23/21

				CONSTRUCTION CODE			
				80% FEDERAL 20% STATE	80% FEDERAL 20% STATE	80% FEDERAL 20% STATE	100% IDNR
				ROADWAY	SAFETY	BRIDGE	PARK ROADS
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004	0021	0010	0005
				RURAL	RURAL	S.N. 006-0189	RURAL
28000305	TEMPORARY DITCH CHECKS	FOOT	170	170			
28000400	PERIMETER EROSION BARRIER	FOOT	3670	3670			
28000500	INLET AND PIPE PROTECTION	EACH	5	5			
28100105	STONE RIPRAP, CLASS A3	SQ YD	52			52	
28100705	STONE DUMPED RIPRAP, CLASS A3	SQ YD	427		240	187	
28200200	FILTER FABRIC	SQ YD	52			52	
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	4800	4800			
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	484	439	45		
31101400	SUBBASE GRANULAR MATERIAL, TYPE B 6"	SQ YD	361		361		
31101600	SUBBASE GRANULAR MATERIAL, TYPE B 8"	SQ YD	1898	1198			700
40200900	AGGREGATE SURFACE COURSE, TYPE B	CU YD	355	355			
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	115	115			
40700100	BITUMINOUS MATERIALS (TACK COAT)	POUND	3670	3670			
40701921	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 12"	SQ YD	3817	3817			

* DENOTES SPECIAL PROVISION REQUIRED

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USER NAME = RGall	DESIGNED - RG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 92 OVER HENNEPIN CANAL FEEDER SUMMARY OF QUANTITIES
	DRAWN - CS	REVISED -		
PLOT SCALE = 40.0000 ' / in.	CHECKED - JH	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.
PLOT DATE = 8/3/2021	DATE -	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(135B-1)BR	BUREAU	84	5
		CONTRACT NO. 66H26		
	ILLINOIS FED. AID PROJECT			

REV. 9/23/21

				CONSTRUCTION CODE			
				80% FEDERAL 20% STATE	80% FEDERAL 20% STATE	80% FEDERAL 20% STATE	100% IDNR
				ROADWAY	SAFETY	BRIDGE	PARK ROADS
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004	0021	0010	0005
				RURAL	RURAL	S.N. 006-0189	RURAL
40800025	BITUMINOUS MATERIALS (PRIME COAT)	POUND	4778	2391	813		1574
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	240	120	41		79
42000070	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	SQ YD	86	86			
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	399		399		
42400800	DETECTABLE WARNINGS	SQ FT	41		41		
44000100	PAVEMENT REMOVAL	SQ YD	4036	4036			
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	43	43			
44000600	SIDEWALK REMOVAL	SQ FT	944	944			
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	625	625			
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	348	348			
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1			1	
50104400	CONCRETE HEADWALL REMOVAL	EACH	4	4			
50105220	PIPE CULVERT REMOVAL	FOOT	70	70			
50200100	STRUCTURE EXCAVATION	CU YD	93			93	

* DENOTES SPECIAL PROVISION REQUIRED

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PLOT DATE = 8/3/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 92 OVER HENNEPIN CANAL FEEDER
SUMMARY OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(1358-1)BR	BUREAU	84	6
		CONTRACT NO. 66H26		
	ILLINOIS	FED. AID PROJECT		

				CONSTRUCTION CODE			
				80% FEDERAL 20% STATE	80% FEDERAL 20% STATE	80% FEDERAL 20% STATE	100% IDNR
				ROADWAY	SAFETY	BRIDGE	PARK ROADS
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004 RURAL	0021 RURAL	0010 S.N. 006-0189	0005 RURAL
50300225	CONCRETE STRUCTURES	CU YD	77.3			77.3	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	300.3			300.3	
50300260	BRIDGE DECK GROOVING	SQ YD	580			580	
50300300	PROTECTIVE COAT	SQ YD	754			754	
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	96.3			96.3	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	122,134	134		122,000	
50901720	BICYCLE RAILING	FOOT	219		219		
51100300	SLOPE WALL 6 INCH	SQ YD	147			147	
51200900	FURNISHING PRECAST PRESTRESSED CONCRETE PILES 14"	FOOT	560			560	
51200959	FURNISHING METAL SHELL PILES 14" X 0.312"	FOOT	290			290	
51202305	DRIVING PILES	FOOT	850			850	
51203100	TEST PILES PRECAST PRESTRESSED CONCRETE	EACH	2			2	
51203200	TEST PILE METAL SHELLS	EACH	2			2	
51204650	PILE SHOES	EACH	12			12	

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PLOT DATE = 8/3/2021	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 92 OVER HENNEPIN CANAL FEEDER
SUMMARY OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(135B-1)BR	BUREAU	84	7
		CONTRACT NO. 66H26		
	ILLINOIS FED. AID PROJECT			

REV. 10/4/21

				CONSTRUCTION CODE			
				80% FEDERAL 20% STATE	80% FEDERAL 20% STATE	80% FEDERAL 20% STATE	100% IDNR
				ROADWAY	SAFETY	BRIDGE	PARK ROADS
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004 RURAL	0021 RURAL	0010 S.N. 006-0189	0005 RURAL
51500100	NAME PLATES	EACH	1			1	
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2	2			
54002020	EXPANSION BOLTS 3/4 INCH	EACH	64	64			
54010303	PRECAST CONCRETE BOX CULVERTS 3' X 3'	FOOT	35	35			
542A0223	PIPE CULVERTS, CLASS A, TYPE 1 18"	FOOT	45	45			
542A0241	PIPE CULVERTS, CLASS A, TYPE 1 36"	FOOT	86	86			
542A1081	PIPE CULVERTS, CLASS A, TYPE 2 36"	FOOT	97	97			
542C1093	PIPE CULVERTS, CLASS C, TYPE 2 48"	FOOT	20	20			
5421C018	PIPE CULVERTS, CLASS C, TYPE 1 18" (TEMPORARY)	FOOT	70	70			
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	2	2			
54213681	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36"	EACH	4	4			
54248510	CONCRETE COLLAR	CU YD	2.0	2.0			
54262748	METAL FLARED END SECTIONS 48"	EACH	2	2			
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	71			71	

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PLOT SCALE = 40.0000 ' / in.	CHECKED - JH	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.
PLOT DATE = 8/3/2021	DATE -	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(1358-1)BR	BUREAU	84	8
		CONTRACT NO. 66H26		
	ILLINOIS	FED. AID PROJECT		

					CONSTRUCTION CODE			
					80% FEDERAL 20% STATE	80% FEDERAL 20% STATE	80% FEDERAL 20% STATE	100% IDNR
					ROADWAY	SAFETY	BRIDGE	PARK ROADS
	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004	0021	0010	0005
					RURAL	RURAL	S.N. 006-0189	RURAL
	59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	49			49	
	60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	8	8			
	60108100	PIPE UNDERDRAINS 4" (SPECIAL)	FOOT	120	120			
	60108501	PIPE UNDERDRAINS, TYPE 3	FOOT	2501	2501			
*	63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	50	50			
*	63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4			
*	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4			
	63200310	GUARDRAIL REMOVAL	FOOT	405	405			
	63200400	CABLE ROAD GUARD REMOVAL	FOOT	159	159			
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	12			
	67100100	MOBILIZATION	L SUM	1	1			
*	72000100	SIGN PANEL - TYPE 1	SQ FT	64	64			
*	72000200	SIGN PANEL - TYPE 2	SQ FT	43	43			
*	72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	2	2			

*= SPECIALTY ITEM

* DENOTES SPECIAL PROVISION REQUIRED

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 92 OVER HENNEPIN CANAL FEEDER
SUMMARY OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(135B-1)BR	BUREAU	84	9
		CONTRACT NO. 66H26		
	ILLINOIS FED. AID PROJECT			

REV. 9/23/21

					CONSTRUCTION CODE			
					80% FEDERAL 20% STATE	80% FEDERAL 20% STATE	80% FEDERAL 20% STATE	100% IDNR
					ROADWAY	SAFETY	BRIDGE	PARK ROADS
CODE NO.	ITEM	UNIT	TOTAL QUANTITY		0004	0021	0010	0005
					RURAL	RURAL	S.N. 006-0189	RURAL
72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	30		30			
72400320	REMOVE SIGN PANEL - TYPE 2	SQ FT	27		27			
72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4		4			
73000100	WOOD SIGN SUPPORT	FOOT	223		223			
78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	21741		21741			
78008230	POLYUREA PAVEMENT MARKING TYPE I - LINE 6"	FOOT	1480		1480			
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	42		42			
78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	16		16			
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	42		42			
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	910		910			
* X0320095	WOOD BOLLARD	EACH	4					4
* X0323013	TUBULAR STEEL GATE	EACH	1					1
* X0324056	REMOVAL OF EXISTING WOOD BOLLARDS	EACH	3		3			
* X0326649	LINEAR DELINEATOR PANELS, 6 INCH	EACH	6		6			

* DENOTES SPECIAL PROVISION REQUIRED

MODEL: Default
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Civil Engineering Design

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PLOT SCALE = 40.0000 ' / in.	CHECKED - JH	REVISED -
PLOT DATE = 8/3/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 92 OVER HENNEPIN CANAL FEEDER
SUMMARY OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(1358-1)BR	BUREAU	84	10
		CONTRACT NO. 66H26		
	ILLINOIS	FED. AID PROJECT		

					CONSTRUCTION CODE			
					80% FEDERAL 20% STATE	80% FEDERAL 20% STATE	80% FEDERAL 20% STATE	100% IDNR
	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	SAFETY	BRIDGE	PARK ROADS
					0004	0021	0010	0005
					RURAL	RURAL	S.N. 006-0189	RURAL
	X0327591	WOOD BOLLARDS AND CABLE	FOOT	303				303
	X0327809	LINEAR DELINEATOR PANELS, 4 INCH	EACH	12	12			
	X7011800	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1	1			
*	X7830070	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	10179	10179			
*	X7830074	GROOVING FOR RECESSED PAVEMENT MARKING 7"	FOOT	733	733			
	Z0004003	INSTALL DROP BOLLARD	EACH	2				2
	Z0004552	APPROACH SLAB REMOVAL	SQ YD	120	120			
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1			
	Z0016702	DETOUR SIGNING	L SUM	1	1			
	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	102	102			
	Z0033700	LONGITUDINAL JOINT SEALANT	FOOT	2585	2585			
	Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	124			124	

* DENOTES SPECIAL PROVISION REQUIRED

MODEL: Default
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 92 OVER HENNEPIN CANAL FEEDER
SUMMARY OF QUANTITIES

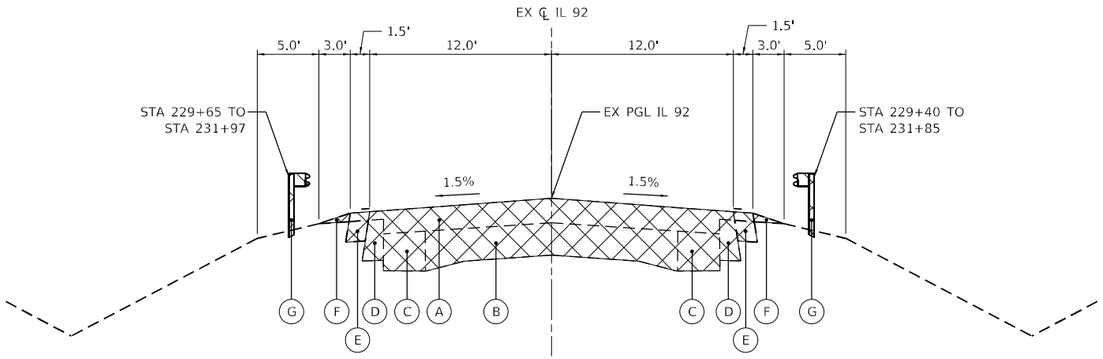
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(135B-1)BR	BUREAU	84	11
		CONTRACT NO. 66H26		
	ILLINOIS FED. AID PROJECT			

REV. 9/23/21

EXISTING LEGEND

- (A) EX HOT-MIX ASPHALT SURFACE, 5 1/4"
- (B) EX PORTLAND CEMENT CONCRETE BASE COURSE, 9"-6"-9"
- (C) EX PORTLAND CEMENT CONCRETE BASE COURSE WIDENING, 9"
- (D) EX HOT-MIX ASPHALT BASE COURSE WIDENING
- (E) EX HOT-MIX ASPHALT SHOULDER, 5"
- (F) EX AGGREGATE SHOULDER
- (G) EX GUARDRAIL
- REMOVAL ITEM

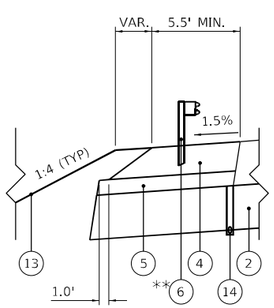


EXISTING IL 92 TYPICAL SECTION

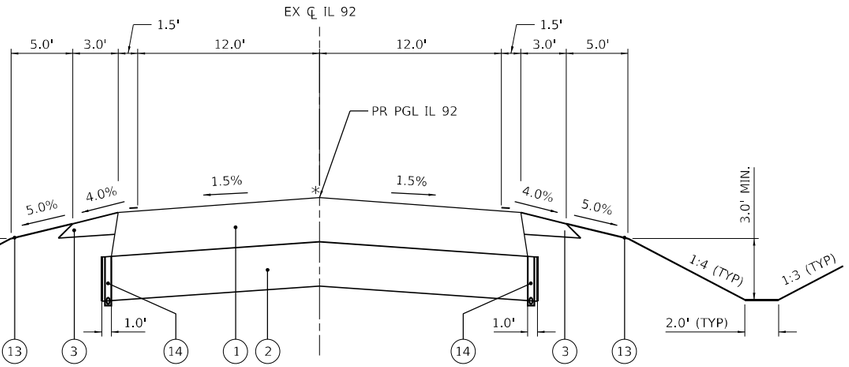
STA. 223+45 TO STA. 238+10
BRIDGE SECTION STA. 230+32 TO STA. 231+18

PROPOSED LEGEND

- (1) PR HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 12"
- (2) PR AGGREGATE SUBGRADE IMPROVEMENT, 12"
- (3) PR AGGREGATE SHOULDERS, TYPE B, 6"
- (4) PR HOT-MIX ASPHALT SHOULDER, 8"
- (5) PR SUBBASE GRANULAR MATERIAL, TYPE B, 4"
- (6) PR GUARDRAIL (SEE ROADWAY PLANS)
- (7) PR INCIDENTAL HOT-MIX-ASPHALT SURFACING, 2"
- (8) PR SUBBASE GRANULAR MATERIAL, TYPE B 6"
- (9) PR SUBBASE GRANULAR MATERIAL, TYPE B 8"
- (10) PR AGGREGATE SURFACE COURSE, TYPE B 8"
- (11) PR BICYCLE RAILING
- (12) PR STONE DUMPED RIPRAP, CLASS A3
- (13) PR SEEDING (SEE LANDSCAPING PLANS)
- (14) PR PIPE UNDERDRAIN



STA. 228+97 TO STA. 232+71

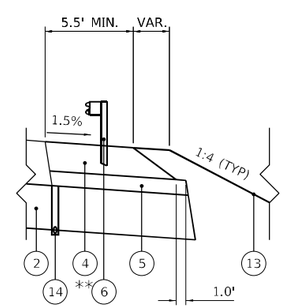


PROPOSED IL 92 TYPICAL SECTION

STA. 223+45 TO STA. 238+10
BRIDGE SECTION STA. 229+88 TO STA. 231+61

* LONGITUDINAL JOINT SEALANT (UNDER SURFACE LIFT AND UNDER TOP BINDER LIFT)

** HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL IN ACCORDANCE WITH STANDARD 630201-07



STA. 228+69 TO STA. 232+42

HMA MIXTURE REQUIREMENT TABLE

LOCATIONS:	HMA FULL DEPTH 12"			HMA SHOULDERS 8"		HMA ENTRANCE & MULTI-USE PATH
MIXTURE USE(S):	HMA SURFACE	HMA BINDER TOP LIFT	HMA BINDER BOTTOM LIFT(S)	HMA BINDER BOTTOM LIFT(S)	HMA SURFACE	HMA INCIDENTAL
BINDER GRADE (PG):	SBS PG 70-28	SBS PG 70-28	PG 64-22	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4.0% @ N50	4.0% @ N50	4.0% @ N50	4.0% @ N50	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION: (MIXTURE GRADATION)	IL 9.5	IL 19.0	IL 19.0	IL 19.0	IL 9.5	IL 9.5
FRICTION AGGREGATE:	MIXTURE C				MIXTURE C	
MIXTURE WEIGHT:	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN
QUALITY MANAGEMENT PROGRAM:	QCQA	QCQA	QCQA	QCQA	QCQA	QCQA
SUBLOT SIZE:	NA	NA	NA	NA	NA	NA
DENSITY TEST METHOD:	CORES	CORES	CORES	CORES	CORES	SATISFACTION OF ENGINEER

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

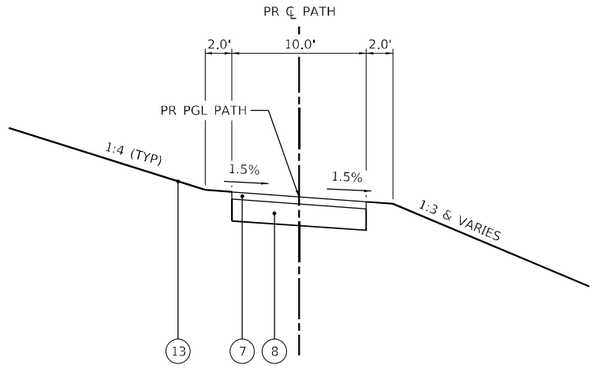
IL 92 OVER HENNEPIN CANAL FEEDER
TYPICAL SECTIONS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(135B-1)BR	BUREAU	84	12
		CONTRACT NO. 66H26		
	ILLINOIS	FED. AID PROJECT		

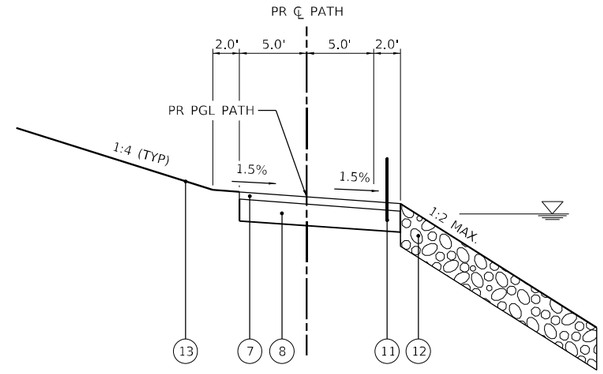
PROPOSED LEGEND

1. PR HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 12"
2. PR AGGREGATE SUBGRADE IMPROVEMENT, 12"
3. PR AGGREGATE SHOULDERS, TYPE B, 6"
4. PR HOT-MIX ASPHALT SHOULDER, 8"
5. PR SUBBASE GRANULAR MATERIAL, TYPE B, 4"
6. PR GUARDRAIL (SEE ROADWAY PLANS)
7. PR INCIDENTAL HOT-MIX-ASPHALT SURFACING, 2"
8. PR SUBBASE GRANULAR MATERIAL, TYPE B 6"
9. PR SUBBASE GRANULAR MATERIAL, TYPE B 8"
10. PR AGGREGATE SURFACE COURSE, TYPE B 8"
11. PR BICYCLE RAILING
12. PR STONE DUMPED RIPRAP, CLASS A3
13. PR SEEDING (SEE LANDSCAPING PLANS)
14. PR PIPE UNDERDRAIN



PROPOSED MULTI-USE PATH TYPICAL SECTION

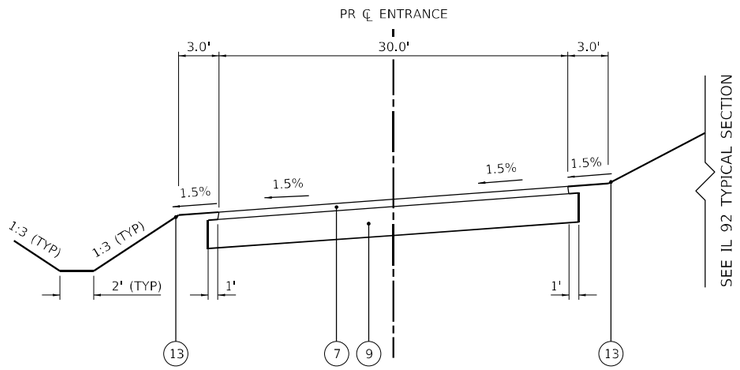
STA. 5+00 TO STA. 5+85
STA. 7+95 TO STA. 8+27



PROPOSED MULTI-USE PATH TYPICAL SECTION

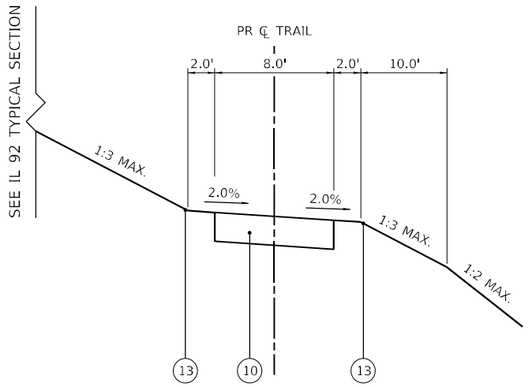
STA. 5+85 TO STA. 6+91
STA. 7+30 TO STA. 7+95

SEE STRUCTURE PLANS FOR
SECTION OF MULTI-USE PATH UNDER BRIDGE
FROM STA. 6+91 TO STA. 7+30



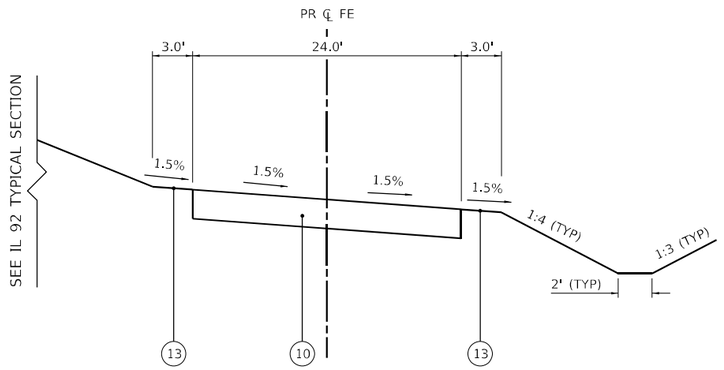
PROPOSED HMA ENTRANCE TYPICAL SECTION

LOOKING EAST



PROPOSED EQUESTRIAN TRAIL ENTRANCE TYPICAL SECTION

LOOKING NORTH



PROPOSED FIELD ENTRANCE TYPICAL SECTION AT STA 228+40

LOOKING EAST

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 92 OVER HENNEPIN CANAL FEEDER
TYPICAL SECTIONS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(135B-1)BR	BUREAU	84	13
		CONTRACT NO. 66H26		
	ILLINOIS	FED. AID PROJECT		

DRAINAGE REMOVAL SCHEDULE			
STATION	OFFSET	CONCRETE HEADWALL REMOVAL	PIPE CULVERT REMOVAL
		(EACH)	(FOOT)
226+13.79	29.8 'LT	1	
226+14.14	30.02 'RT	1	
224+77.37	39.07 'LT		30
232+89.12	87.40 'LT	1	
232+88.42	59.54 'RT	1	
237+65.19	34.24 'LT		40
TOTAL		4	70

TREE REMOVAL SCHEDULE					
ROUTE	STATION	OFFSET	MS DIAMETER (INCH)	TREE REMOVAL (6 TO 15 UNITS DIAMETER) (UNIT)	TREE REMOVAL (OVER 15 UNITS DIAMETER) (UNIT)
IL 92	227+57.66	56.3 'LT	MS (6,5)	11	
IL 92	229+93.76	54.2 'LT		8	
IL 92	230+06.90	77.7 'LT		11	
IL 92	232+87.50	48.5 'RT		15	
IL 92	233+20.31	84.0 'RT		15	
IL 92	235+34.10	54.9 'RT			38
IL 92	235+76.44	55.8 'RT			39
			TOTAL	60	77

ROADWAY REMOVAL SCHEDULE										
FROM STATION	OFFSET	TO STATION	OFFSET	PAVEMENT REMOVAL	DRIVEWAY PAVEMENT REMOVAL	SIDEWALK REMOVAL	GUARDRAIL REMOVAL	CABLE ROAD GUARD REMOVAL	APPROACH SLAB REMOVAL	REMOVAL OF EXISTING WOOD BOLLARDS
				(SQ YD)	(SQ YD)	(SQ FT)	(FOOT)	(FOOT)	(SQ YD)	(EACH)
223+45.00	13.5 'LT/RT	230+10.20	13.5 'LT/RT	2018						
230+10.20		230+30.20							60	
231+19.70		231+39.70							60	
231+39.70	13.5 'LT/RT	238+10.00	13.5 'LT/RT	2018						
229+22.83	38.5 'LT	229+58.30	140.2 'LT			944				
229+39.83	18.1 'RT	230+56.57	15.8 'RT				117			
229+40.00	18.0 'LT				43					
229+64.82	18.6 'LT	230+56.57	15.7 'LT				92			
229+44.59	122.0 'LT									1
229+50.05	120.7 'LT									1
229+55.55	120.3 'LT									1
230+93.16	15.8 'LT	231+97.47	19.0 'LT				104			
230+93.64	15.7 'RT	231+84.84	18.9 'RT				92			
229+56.56	111.03 'LT	229+73.91	210.37 'LT					102		
230+16.92	117.79 'LT	230+21.96	163.48 'LT					57		
			TOTAL	4036	43	944	405	159	120	3

MODEL: Default
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 92 OVER HENNEPIN CANAL FEEDER
SCHEDULES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(1358-1)BR	BUREAU	84	14
		CONTRACT NO. 66H26		
	ILLINOIS FED. AID PROJECT			

EARTH EXCAVATION SCHEDULE

LOCATION	EARTH EXCAVATION (CUTS)	EARTH EXCAVATION ADJ FOR SHRINKAGE 25%	EMBANKMENT (FILLS)	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (FURNISHED EX)
	CU YD	CU YD	CU YD	CU YD	CU YD
IL 92	1180	885	17965	2750	-17080
MULTI USE PATH	60	45	360	140	-315
EX PARKING LOT	195	147			+147
TOTAL	**1435**	**1077**	**18325**	**2890**	**-17248**

NOTES:

1. TOPSOIL TO BE EXCAVATED TO A DEPTH OF 6" IN AREAS THAT WILL BE DISTURBED BY PROPOSED WORK. REMOVAL OF TOPSOIL TO BE PAID FOR AS REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL.

LANDSCAPING SCHEDULE

LOCATION			AREA	SEEDING CLASS 1B	SEEDING CLASS 2A	SEEDING CLASS 3	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	EROSION CONTROL BLANKET	HEAVY DUTY EROSION CONTROL BLANKET
FROM STATION	TO STATION	OFFSET									
			SQ FT	ACRE	ACRE	ACRE	POUND	POUND	POUND	SQ YD	SQ YD
223+45.00	226+65.00	LT	14004.4		0.32		29	29	29	1556	
226+95.00	229+67.29	LT	9986		0.23		21	21	21	1110	
227+84.00	230+21.47	LT	12190.86	0.28			25	25	25	1355	
231+31.67	231+95.05	LT	3214.97		0.07		7	7	7	357	
232+06.61	237+63.21	LT	17499.4		0.40		36	36	36	1944	
232+76.00	233+25.82	LT	1369.8			0.03	3	3	3		152
237+94.95	238+10.00	LT	402.1		0.01		1	1	1	45	
223+45.00	226+65.00	RT	13781.9		0.32		28	28	28	1531	
226+95.00	230+12.42	RT	21285		0.49		44	44	44	2365	
228+61.39	230+40.06	RT	9901.76	0.23			20	20	20	1100	
231+31.67	231+55.15	RT	3623.99		0.08		7	7	7	403	
231+67.16	238+10.01	RT	17763.1		0.41		37	37	37	1974	
232+80.62	233+06.88	RT	1424.6			0.03	3	3	3		158
		TOTAL		0.75	2.50	0.25	261	261	261	13739	310

EROSION CONTROL SCHEDULE

	STATION	STATION	OFFSET	PERIMETER EROSION BARRIER	INLET AND PIPE PROTECTION	TEMPORARY DITCH CHECKS	TEMPORARY EROSION CONTROL SEEDING
				FOOT	EACH	FOOT	POUND
IL 92	223+45.00	226+65.00	LT	390	1	20	96.4
IL 92	226+95.00	229+67.29	LT	308	1	20	68.8
IL 92	227+67.00	230+40.06	LT				84.0
IL 92	230+24.56			348			
IL 92	230+74.06			289			
IL 92	231+31.67	231+95.05	LT	143			22.1
IL 92	232+06.61	237+63.21	LT	614		30	128.6
IL 92	237+94.95	238+10.00	LT		1		2.8
IL 92	223+45.00	226+65.00	RT	392	1	20	94.9
IL 92	226+95.00	230+12.42	RT	419		10	146.6
IL 92	228+49.39	230+40.06	RT				60.2
IL 92	231+31.67	231+55.15	RT	92			25.0
IL 92	231+67.16	238+10.01	RT	675	1	50	130.5
IL 92	239+00.00		LT/RT			20	
			TOTAL	3670	5	170	868

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 92 OVER HENNEPIN CANAL FEEDER
SCHEDULES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(1358-1)BR	BUREAU	84	15
		CONTRACT NO. 66H26		
	ILLINOIS	FED. AID PROJECT		

SIGNING REMOVAL SCHEDULE

SIGN NUMBER	STA	EX OFFSET	DESIGNATION	DESCRIPTION	PANEL WIDTH (IN)	PANEL HEIGHT (IN)	PANEL AREA (SQ FT)	REM SIGN PAN ASSEM TYP A (EACH)	REM SIGN PANEL TYP 1 (SQ FT)	REM SIGN PANEL TYP 2 (SQ FT)
REM-01	229+62	RT	R12-1100	BRIDGE WEIGHT LIMIT-TONS	54	36	13.5			13.5
REM-02	231+76	LT	R12-1100	BRIDGE WEIGHT LIMIT-TONS	54	36	13.5			13.5
REM-03	227+35	RT	I1-1106	CANAL ACCESS	30	24	5.0	1		
REM-04	227+35	RT	M6-1	DIRECTIONAL ARROW (LEFT)	21	15	2.2			
REM-05	230+30	RT	OM3-R	RIGHT OBJECT MARKERS	12	36	3.0		3.0	
REM-06	230+30	RT	I1-1106	HENNEPIN FEEDER CANAL	36	30	7.5		7.5	
REM-07	230+28	RT	W3-1	STOP AHEAD	18	18	2.3		2.3	
REM-08	229+41	RT	R1-1	STOP SIGN	18	18	2.3		2.3	
REM-09	229+50	LT	W3-1	STOP AHEAD	18	18	2.3		2.3	
REM-10	232+82	LT	I1-1106	CANAL ACCESS	30	24	5.0	1		
REM-11	232+82	LT	M6-1	DIRECTIONAL ARROW (RIGHT)	21	15	2.2			
REM-12	229+17	LT	R1-1	STOP SIGN	18	18	2.3		2.3	
REM-13	231+20	LT	OM3-R	RIGHT OBJECT MARKERS	12	36	3.0		3.0	
REM-14	231+20	LT	I1-1106	HENNEPIN FEEDER CANAL	36	30	7.5		7.5	
							TOTAL	2	30	27

NOTE: SIGNS REMOVED AND NOT REPLACED SHALL BE RETURNED TO IDOT DISTRICT 3.

MONUMENT NUMBER	DESCRIPTION	EXISTING MONUMENT TYPE	PROPOSED MONUMENT TYPE	MONUMENT RECORD TO BE RECORDED	RESPONSIBILITY
POT2307500	CENTER OF STRUCTURE STA. 230+75.00	N/A	CUT CROSS	NO	2

UNKNOWN MONUMENTS SET BY OTHERS MAY EXIST. IF FOUND, R.E. WILL REQUEST A PLATS AND PLANS SURVEYOR TO GPS THE MONUMENT AND RESET IT IN KIND FOLLOWING CONSTRUCTION.
AT ANY TIME FOLLOWING BRIDGE DECK COMPLETION, R.E. WILL DIRECT A PLATS AND PLANS LAND SURVEYOR TO SET THE CUT CROSS MONUMENT.
NO MONUMENT RECORDS ARE REQUIRED FOR THIS JOB.

RESPONSIBILITY:
1: RESIDENT TO SET MONUMENT (PAY ITEM REQUIRED. PERMANENT SURVEY MARKER, TYPE 1)
2: PLATS AND PLANS TO SET MONUMENT

EFK•Moen Civil Engineering Design

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PLOT SCALE = 40.0000 ' / in.	CHECKED - JH	REVISED -	
PLOT DATE = 8/3/2021	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 92 OVER HENNEPIN CANAL FEEDER
SCHEDULES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(135B-1)BR	BUREAU	84	16
		CONTRACT NO. 66H26		
	ILLINOIS	FED. AID PROJECT		

PROPOSED SIGNING SCHEDULE

SIGN NUMBER	STA	PR OFFSET	DESIGNATION	DESCRIPTION	PANEL WIDTH (IN)	PANEL HEIGHT (IN)	PANEL AREA (SQ FT)	SIGN PANEL TY 1 (SQ FT)	SIGN PANEL TY 2 (SQ FT)	WOOD SIGN SUPPORT (FOOT)
PR-01	213+50	LT	W14-3	NO PASSING ZONE	64	48	21.3		21.3	32
PR-02	226+00	RT	I1-1106	CANAL ACCESS	30	24	5.0	5.0		15.3
PR-03	226+00	RT	M6-1	DIRECTIONAL ARROW (LEFT)	21	15	2.2	2.2		
PR-04	227+87	RT	I1-1106	HENNEPIN FEEDER CANAL	36	30	7.5	7.5		14.5
PR-05	230+16	RT	W3-1	STOP AHEAD	18	18	2.3	2.3		13.5
PR-06	229+49	LT	R1-1	STOP SIGN	18	18	2.3	2.3		13.5
PR-07	229+48	LT	W3-1	STOP AHEAD	18	18	2.3	2.3		13.5
PR-08	229+81	LT	I1-1106	CANAL ACCESS	30	24	5.0	5.0		15.3
PR-09	229+81	LT	M6-1	DIRECTIONAL ARROW (RIGHT)	21	15	2.2	2.2		
PR-10	229+88	RT	W11-7	HORSE RIDER	36	36	9.0	9.0		15
PR-11	229+97	LT	R1-1	STOP SIGN	18	18	2.3	2.3		13.5
PR-12	231+47	LT	I1-1106	HENNEPIN FEEDER CANAL	36	30	7.5	7.5		14.5
PR-13	234+79	LT	W11-7	HORSE RIDER	36	36	9.0	9.0		15
PR-14	231+99	LT	I1-1106	CANAL ACCESS	30	24	5.0	5.0		15.3
PR-15	231+99	LT	M6-1	DIRECTIONAL ARROW (RIGHT)	21	15	2.2	2.2		
PR-16	248+00	RT	W14-3	NO PASSING ZONE	64	48	21.3		21.3	32
						TOTAL		64	43	223

PROPOSED PAVEMENT MARKING SCHEDULE

START STATION	END STATION	OFFSET	POLYUREA PAVEMENT MARKING TYPE I-LINE 4" (2 APPLICATIONS)		POLYUREA PAVEMENT MARKING TYPE I-LINE 6" (2 APPLICATIONS)	GROOVING FOR RECESSED PAVEMENT MARKING 5"	GROOVING FOR RECESSED PAVEMENT MARKING 7"	RAISED REFLECTIVE PAVEMENT MARKER	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	PAVEMENT MARKING REMOVAL WATER BLASTING
			SOLID WHITE	SOLID YELLOW	10'DASH, 30'SKIP YELLOW					
			(FOOT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(EACH)	(EACH)	(SQ FT)
213+50	248+00	LT	6900							
213+50	248+00	RT	6900							
213+50	228+15	LT			740		366			
228+15	248+00	LT		3970						
213+50	233+35	RT		3970						
233+35	248+00	RT			740		366			
213+50	229+88	LT				1638				
213+50	229+88	RT				1638				
231+61	248+00	LT				1639				
231+61	248+00	RT				1639				
228+15	229+88	LT				173				
231+61	248+00	LT				1639				
213+50	229+88	RT				1638				
231+61	233+35	RT				174				
213+50	223+45									456
238+10	248+00									454
213+50	229+88							21	21	
231+61	248+00							21	21	
		SUBTOTAL	13800	7941	1480	10179	733	42	42	910
		TOTAL	21741		1480	10179	733	42	42	910

PROPOSED MULTI-USE PATH SCHEDULE									
FROM STATION	TO STATION	STONE DUMPED RIPRAP, CLASS A3	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SUBBASE GRANULAR MATERIAL, TYPE B 6"	BITUMINOUS MATERIALS (PRIME COAT)	INCIDENTAL HOT-MIX ASPHALT SURFACING	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	DETECTABLE WARNINGS	BICYCLE RAILING
		SQ YD	SQ YD	SQ YD	POUND	TON	SQ FT	SQ FT	FOOT
5+00	5+85	103		236	532	27			
5+85	6+91								108
6+91	7+30								39
7+30	7+95	137		125	281	14			72
7+95	8+27							20	
NORTH RAMP			45				399	21	
TOTAL		240	45	361	813	41	399	41	219

NOTES:

1. THE AREA FOR THE MULTI-USE PATH FROM STATION 6+91 TO STATION 7+30 TO BE PAID FOR AS SLOPE WALL, 6 INCH. SEE STRUCTURE PLANS FOR DETAILS.

PROPOSED PAVEMENT SCHEDULE										
FROM STATION	TO STATION	LT/RT	AGGREGATE SUBGRADE IMPROVEMENT 12"	SUBBASE GRANULAR MATERIAL, TYPE B, 4"	BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 12"	PAVEMENT CONNECTOR FOR BRIDGE APPROACH SLAB	AGGREGATE SHOULDERS, TYPE B, 6"	HMA SHOULDERS, 8"	LONGITUDINAL JOINT SEALANT
			SQ YD	SQ YD	POUND	SQ YD	SQ YD	SQ YD	SQ YD	FOOT
223+45	229+77	LT/RT	2138		1708.7	1898.5				
231+71	230+10	LT/RT	2163		1726.2	1910.0				
228+69	230+16	RT	150	149	83				123	
228+97	230+16	LT	106	106	37				85	
231+32	232+42	RT	74	73	58				55	
231+32	232+71	LT	109	110	57				85	
223+45	226+56	LT						104		
227+04	227+15	LT						3		
227+84	228+97	LT						38		
232+89	237+56	LT						155		
223+45	226+56	RT						104		
227+04	228+13	RT						36		
228+61	228+69	RT						2		
232+42	232+71	RT						9		
232+89	238+10	RT						174		
229+77	229+88	LT/RT	30				43			
231+61	231+71	LT/RT	30				43			
223+45	229+88									1286
231+61	238+10									1299
		TOTAL	4800	439	3670	3817	86	625	348	2585

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Civil Engineering Design

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	DRAWN - CS	REVISED -	
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 92 OVER HENNEPIN CANAL FEEDER
SCHEDULES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(1358-1)BR	BUREAU	84	18
		CONTRACT NO. 66H26		
	ILLINOIS	FED. AID PROJECT		

PROPOSED GUARDRAIL/DELINEATOR SCHEDULE

ROUTE	FROM STATION	OFFSET	TO STATION	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 6	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL REFLECTORS, TYPE A	LINEAR DELINEATOR PANELS, 6 INCH	LINEAR DELINEATOR PANELS, 4 INCH
				(FOOT)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)
IL 92	228+91	RT					1			
IL 92	228+91	RT	229+41			1				
IL 92	229+41	RT	229+66	25						
IL 92	229+66	RT	230+03		1					
IL 92	228+91	RT	230+03					4		3
IL 92	230+03	RT	231+45						3	
IL 92	231+45	RT	231+83		1					
IL 92	231+83	RT	232+33			1				
IL 92	231+45	RT	232+33					4		3
IL 92	232+33	RT					1			
IL 92	229+16	LT					1			
IL 92	229+16	LT	230+03					4		3
IL 92	229+16	LT	229+66			1				
IL 92	229+66	LT	230+03		1					
IL 92	230+03	LT	231+45						3	
IL 92	231+45	LT	232+58					4		3
IL 92	231+45	LT	231+83		1					
IL 92	231+83	LT	232+08	25						
IL 92	232+08	LT	232+58			1				
IL 92	232+58	LT					1			
			TOTAL	50	4	4	4	16	6	12

PROPOSED ENTRANCE SCHEDULE

STATION	OFFSET	ENTRANCE TYPE	SUBBASE GRANULAR MATERIAL, TYPE B 8"	AGGREGATE SURFACE COURSE, TYPE B	BITUMINOUS MATERIALS (PRIME COAT)	INCIDENTAL HOT-MIX-ASPHALT SURFACING
			(SQ YD)	(CU YD)	(POUND)	(TON)
226+80	LT	FIELD ENT		69.8		
226+80	RT	FIELD ENT		71.7		
227+50	LT	CANAL ACCESS	965		1867	93
		PARKING LOT	233		524	27
228+37	RT	FIELD ENT		115.2		
232+80	LT	EQUESTRIAN TR		29.2		
232+80	RT	EQUESTRIAN TR		31.9		
237+80	LT	FIELD ENT		37.2		
		TOTAL	1198	355	2391	120

PROPOSED PARKING LOT SCHEDULE (IDNR)

	STATION	STATION	OFFSET	SUBBASE GRANULAR MATERIAL, TYPE B 8"	BITUMINOUS MATERIALS (PRIME COAT)	INCIDENTAL HOT-MIX-ASPHALT SURFACING	WOOD BOLLARD	TUBULAR STEEL GATE	INSTALL DROP BOLLARD	WOOD BOLLARDS AND CABLE
				(SQ YD)	(POUND)	(TON)	(EACH)	(EACH)	(EACH)	(FOOT)
WEST	229+62	230+11	LT							165.0
EAST	230+12	230+23	LT							138.0
IL 92	229+44		127.2' LT				1			
IL 92	229+50		125.9' LT						1	
IL 92	229+56		124.6' LT				1			
IL 92	PARKING LOT			700	1574	79		1		
IL 92	229+99		77.0' LT				1			
IL 92	230+01		82.3' LT						1	
IL 92	230+04		88.3' LT				1			
			TOTAL	700	1574	79	4	1	2	303

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 92 OVER HENNEPIN CANAL FEEDER
SCHEDULES

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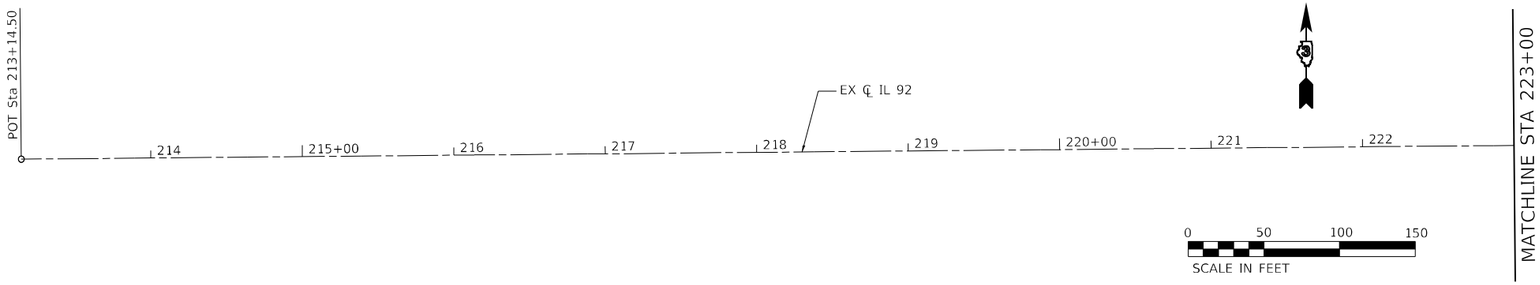
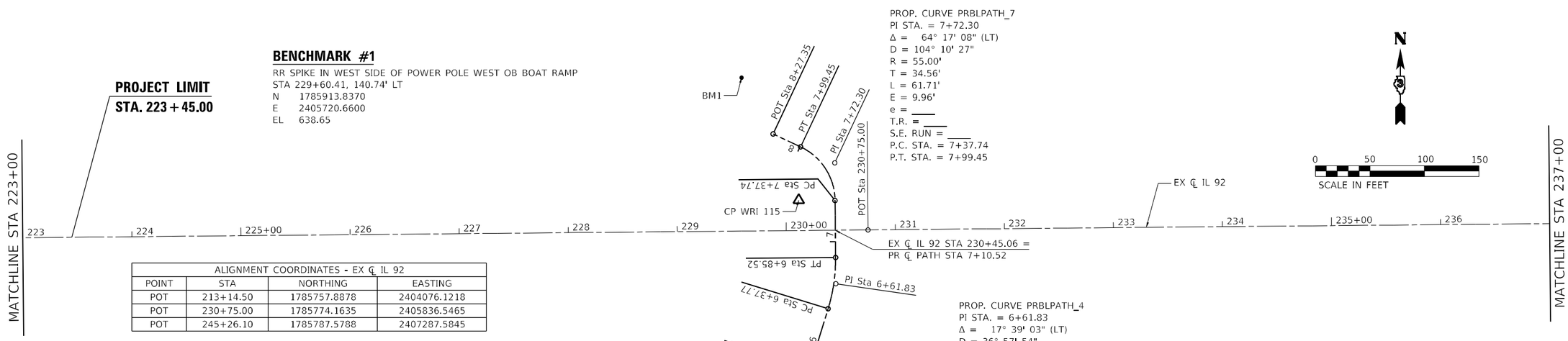
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(1358-1)BR	BUREAU	84	19
		CONTRACT NO. 66H26		
	ILLINOIS	FED. AID PROJECT		





BENCHMARK #1

RR SPIKE IN WEST SIDE OF POWER POLE WEST OB BOAT RAMP
STA 229+60.41, 140.74' LT
N 1785913.8370
E 2405720.6600
EL 638.65

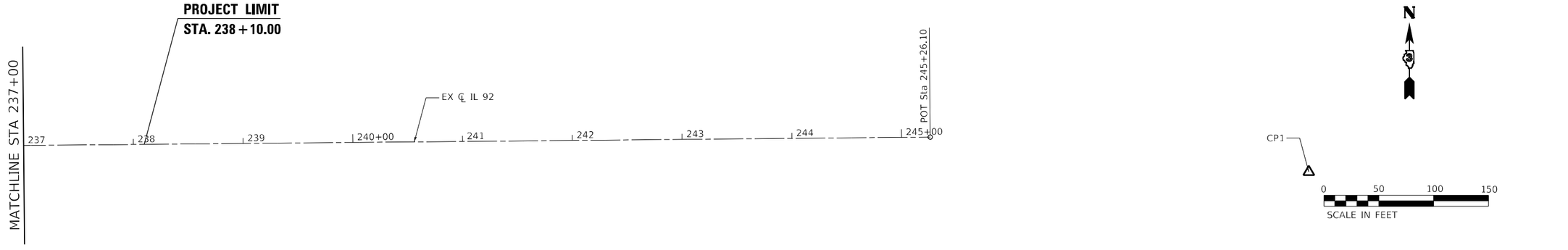
ALIGNMENT COORDINATES - EX ℄ IL 92			
POINT	STA	NORTHING	EASTING
POT	213+14.50	1785757.8878	2404076.1218
POT	230+75.00	1785774.1635	2405836.5465
POT	245+26.10	1785787.5788	2407287.5845

ALIGNMENT COORDINATES - PR ℄ PATH			
POINT	STA	NORTHING	EASTING
PC	5+00.00	1785567.5301	2405780.7559
PI	5+41.96	1785608.3852	2405771.1935
PT	5+81.95	1785648.4850	2405783.5460
PC	6+37.77	1785701.8240	2405799.9767
PI	6+61.83	1785724.8232	2405807.0614
PT	6+85.52	1785748.8878	2405806.8389
PC	7+37.74	1785801.1088	2405806.3561
PI	7+72.30	1785835.6660	2405806.0366
PT	7+99.45	1785850.3720	2405774.7631
POT	8+27.35	1785862.2453	2405749.5136

PROP. CURVE PRBLPATH_1
PI STA. = 5+41.96
Δ = 30° 17' 40" (RT)
D = 36° 57' 54"
R = 155.00'
T = 41.96'
L = 81.95'
E = 5.58'
e = ____
T.R. = ____
S.E. RUN = ____
P.C. STA. = 5+00.00
P.T. STA. = 5+81.95

PROP. CURVE PRBLPATH_7
PI STA. = 7+72.30
Δ = 64° 17' 08" (LT)
D = 104° 10' 27"
R = 55.00'
T = 34.56'
L = 61.71'
E = 9.96'
e = ____
T.R. = ____
S.E. RUN = ____
P.C. STA. = 7+37.74
P.T. STA. = 7+99.45

PROP. CURVE PRBLPATH_4
PI STA. = 6+61.83
Δ = 17° 39' 03" (LT)
D = 36° 57' 54"
R = 155.00'
T = 24.07'
L = 47.75'
E = 1.86'
e = ____
T.R. = ____
S.E. RUN = ____
P.C. STA. = 6+37.77
P.T. STA. = 6+85.52



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	DRAWN - CS	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 92 OVER HENNEPIN CANAL FEEDER
ALIGNMENT, TIES, AND BENCHMARKS

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587	(135B-1)BR	BUREAU	84	20
		CONTRACT NO. 66H26		
	ILLINOIS	FED. AID PROJECT		

MODEL: Default
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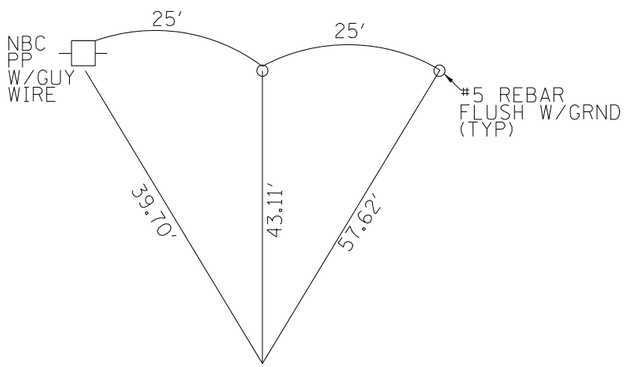
POT 213 + 14.50



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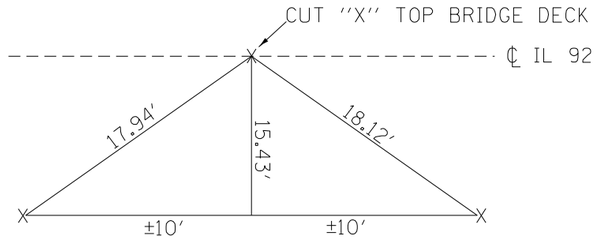
NOT TO SCALE

POT 230 + 75.00
* SN 006–0096

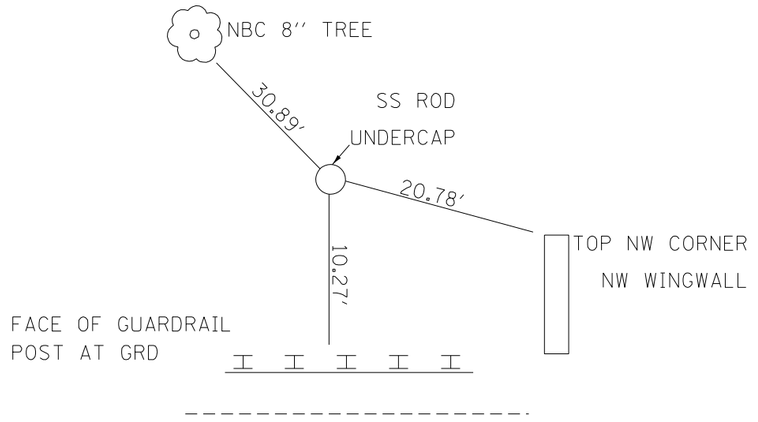


CUT ″X″ TOP HUBGUARD (TYP)

N: 1785774.1635, E: 2405836.5465

NOT TO SCALE

CP WRI 115
230 + 11.76
27.83′ LT



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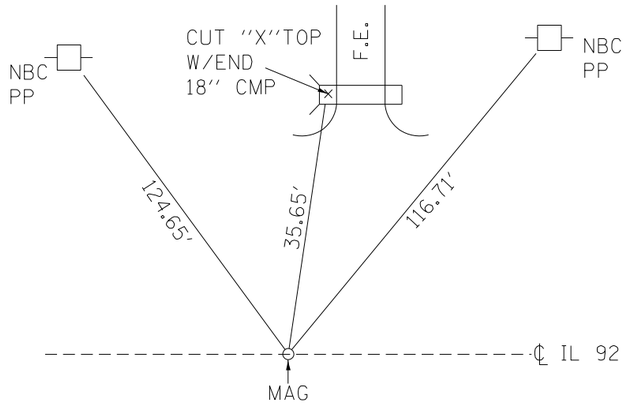
EL: 638.97

NOT TO SCALE

POT 245 + 26.10



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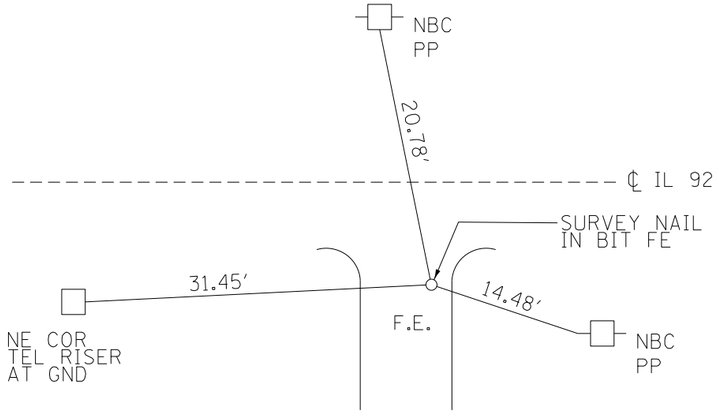
NOT TO SCALE

CP1 248 + 70.65 34.89′ RT



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EL: 637.45

NOT TO SCALE

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STATE OF ILLINOIS
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IL 92 OVER HENNEPIN CANAL FEEDER
ALIGNMENT, TIES, AND BENCHMARKS

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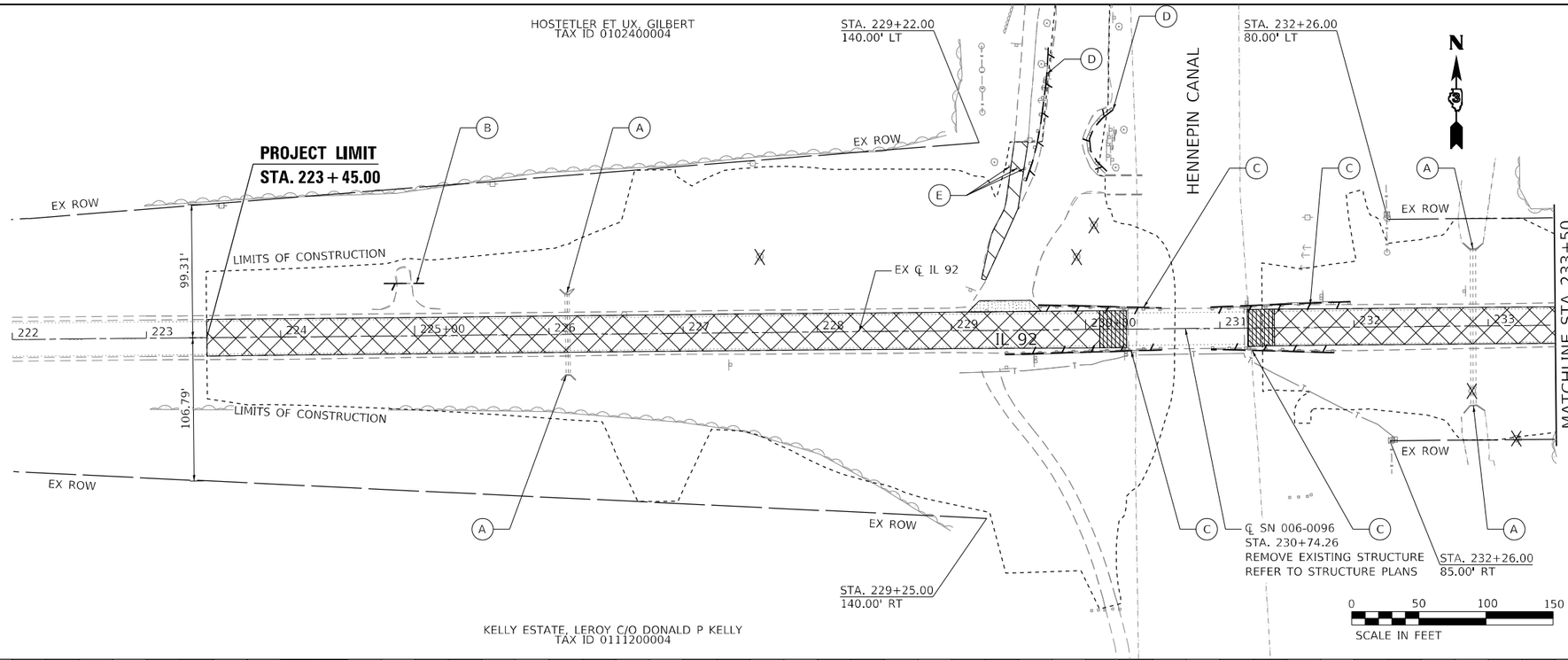
587	(135B-1)BR	BUREAU	84	21
		CONTRACT NO. 66H26		
	ILLINOIS	FED. AID PROJECT		

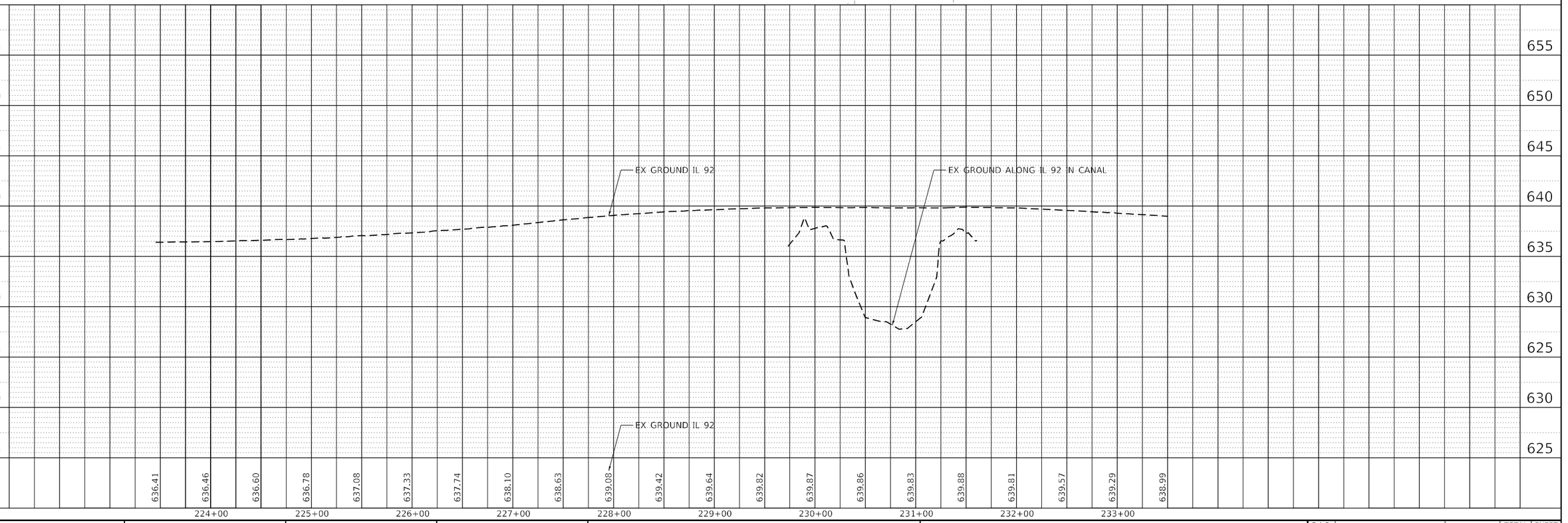


LEGEND

- PAVEMENT REMOVAL (44000100)
- DRIVEWAY PAVEMENT REMOVAL (44000200)
- SIDEWALK REMOVAL (44000600)
- APPROACH SLAB REMOVAL (Z0004552)
- TREE REMOVAL
- LINEAR REMOVAL
- (A) CONCRETE HEADWALL REMOVAL (50104400)
- (B) PIPE CULVERT REMOVAL (50105220)
- (C) GUARDRAIL REMOVAL (63200310)
- (D) CABLE ROAD GUARD REMOVAL (63200400)
- (E) REMOVAL OF EXISTING WOOD BOLLARDS (X0324056)

NOTES

1. SEE SIGNING PLAN FOR REMOVAL AND RELOCATION OF EXISTING SIGNS



PLAN — SURVEYED; PLOTTED; ALIGNMENT CHECKED; RT. OF WAY CHECKED; CADD FILE NAME; NOTE BOOK; NO.; BY; DATE

PROFILE — SURVEYED; PLOTTED; GRADES CHECKED; B.M. NOTED; STRUCTURE NOTATNS CHKD; NOTE BOOK; NO.

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STATE OF ILLINOIS
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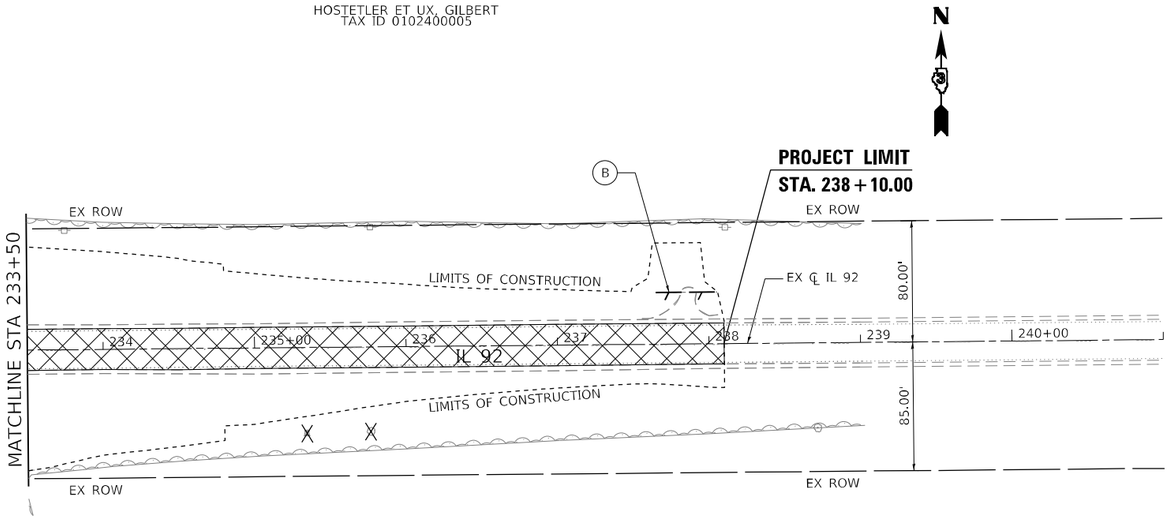
IL 92 OVER HENNEPIN CANAL FEEDER
REMOVAL PLAN

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(1358-1)BR	BUREAU	84	22
		CONTRACT NO. 66H26		
	ILLINOIS	FED. AID PROJECT		

HOSTETLER ET UX, GILBERT
TAX ID 0102400005



KELLY GANG LLC C/O RONALD L KELLY
TAX ID 0111200003

0 50 100 150
SCALE IN FEET

LEGEND

- PAVEMENT REMOVAL (44000100)
- DRIVEWAY PAVEMENT REMOVAL (44000200)
- SIDEWALK REMOVAL (44000600)
- APPROACH SLAB REMOVAL (Z0004552)
- TREE REMOVAL
- LINEAR REMOVAL
- (A) CONCRETE HEADWALL REMOVAL (50104400)
- (B) PIPE CULVERT REMOVAL (50105220)
- (C) GUARDRAIL REMOVAL (63200310)
- (D) CABLE ROAD GUARD REMOVAL (63200400)
- (E) REMOVAL OF EXISTING WOOD BOLLARDS (X0324056)

NOTES

1. SEE SIGNING PLAN FOR REMOVAL AND RELOCATION OF EXISTING SIGNS

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTATIONS CHKD
NOTE BOOK
NO.

655 650 645 640 635 630 625

EX GROUND IL 92

638.99 638.59 638.14 637.69 637.41 637.12 636.98 636.83 636.83 636.82

234+00 235+00 236+00 237+00 238+00

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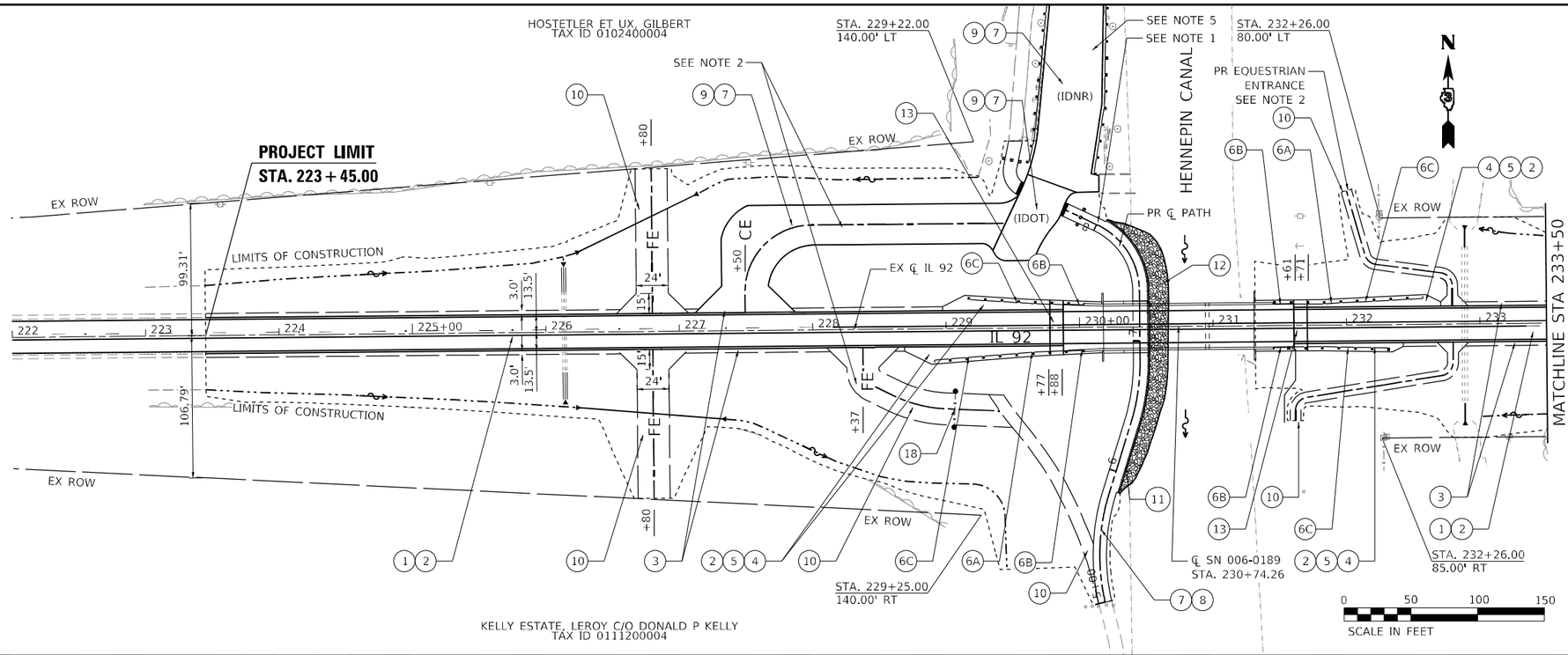
IL 92 OVER HENNEPIN CANAL FEEDER
REMOVAL PLAN

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(1358-1)BR	BUREAU	84	23
		CONTRACT NO. 66H26		
	ILLINOIS	FED. AID PROJECT		

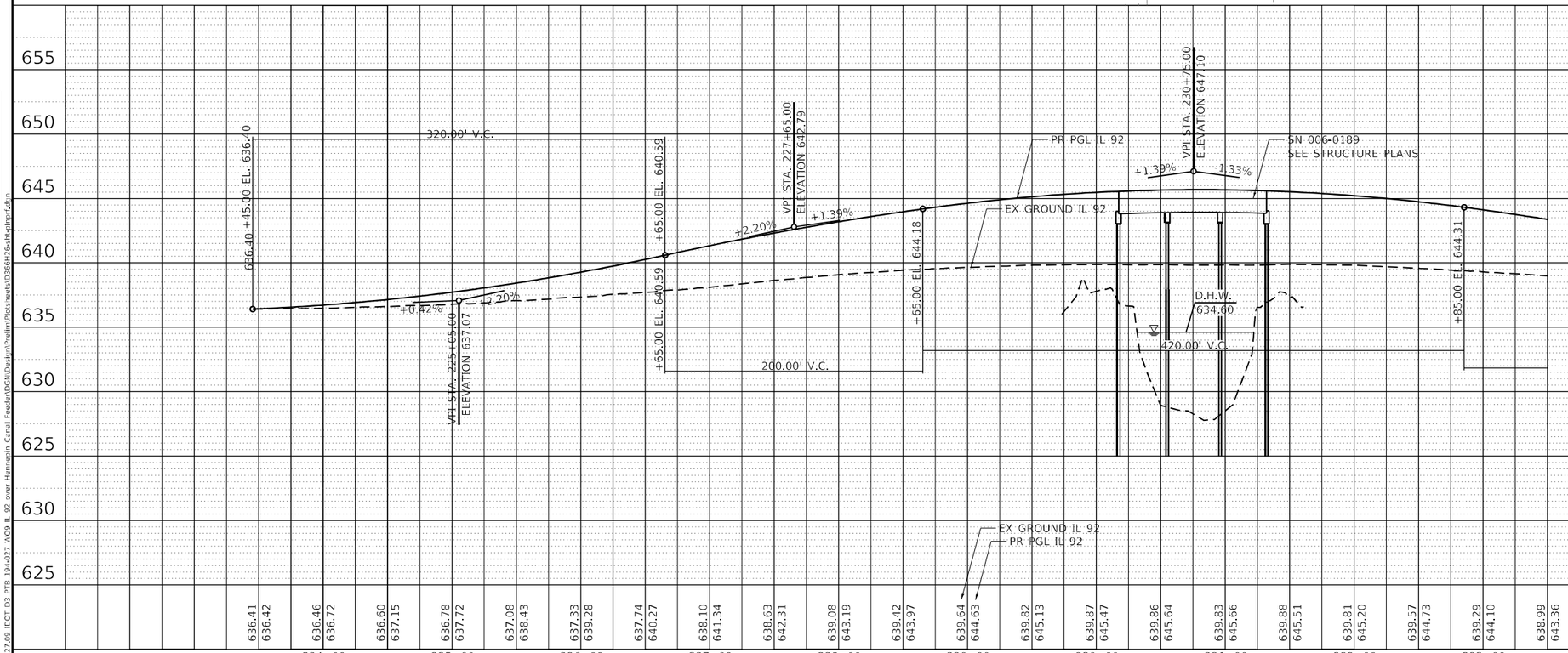


LEGEND

1. HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 12" (40701921)
2. AGGREGATE SUBGRADE IMPROVEMENT 12" (30300112)
3. AGGREGATE SHOULDERS, TYPE B, 6" (48101500)
4. HOT-MIX ASPHALT SHOULDERS, 8" (48203029)
5. SUBBASE GRANULAR MATERIAL, TYPE B 4" (31101200)
6A. STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS (63000001)
6B. TRAFFIC BARRIER TERMINAL, TYPE 6 (63100085)
6C. TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT (63100167)
7. INCIDENTAL HOT-MIX ASPHALT SURFACING (40800050)
8. SUBBASE GRANULAR MATERIAL, TYPE B 6" (31101400)
9. SUBBASE GRANULAR MATERIAL, TYPE B 8" (31101600)
10. AGGREGATE SURFACE COURSE, TYPE B, 8" (40200900)
11. BICYCLE RAILING (50901720)
12. STONE DUMPED RIPRAP, CLASS A3 (28100705)
13. PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB (42000070)
14. (NOT USED)
15. PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH (42400200)
16. SUBBASE GRANULAR MATERIAL, TYPE B 4" (31101200)
17. DETECTABLE WARNING (42400800)
18. TUBULAR STEEL GATE (X0323013)

NOTES

1. SEE MULTI-USE PATH PLAN & PROFILE FOR ADDITIONAL DETAILS
2. SEE ENTRANCE DETAILS FOR DETAILS AND ELEVATIONS AT ENTRANCES
3. SEE DRAINAGE PLANS FOR LOCATIONS AND DETAILS FOR PROPOSED DRAINAGE ITEMS
4. SEE GUARDRAIL DETAILS FOR ADDITIONAL DETAILS
5. THE CONTRACTOR SHALL NOT STORE EQUIPMENT WITHIN IDNR PARKING AREA WITHOUT WRITTEN PERMISSION FROM IDNR OFFICIALS. IF STAGING OF EQUIPMENT IS GRANTED, THE CONTRACTOR SHALL RESTORE ALL DAMAGED AREAS AT NO ADDITIONAL COST TO THE DEPARTMENT.



PLAN — SURVEYED; PLOTTED; ALIGNMENT CHECKED; RT. OF WAY CHECKED; CADD FILE NAME; NOTE BOOK; NO.; DATE; BY

PROFILE — SURVEYED; PLOTTED; GRADES CHECKED; R.R. NOTED; STRUCTURE NOTATIONS CHKD

MODEL: Default
FILE NAME: Z:\20027.09 IDOT D3 PTB 194-027 W09 IL 92 over Hennepin Canal Feeder\DGN\Design\Preliminary\Sheets\D3664h26sht-pltprf.dgn

EFK•Moen
Civil Engineering Design

USER NAME = RCall	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/3/2021	DATE -	REVISED -

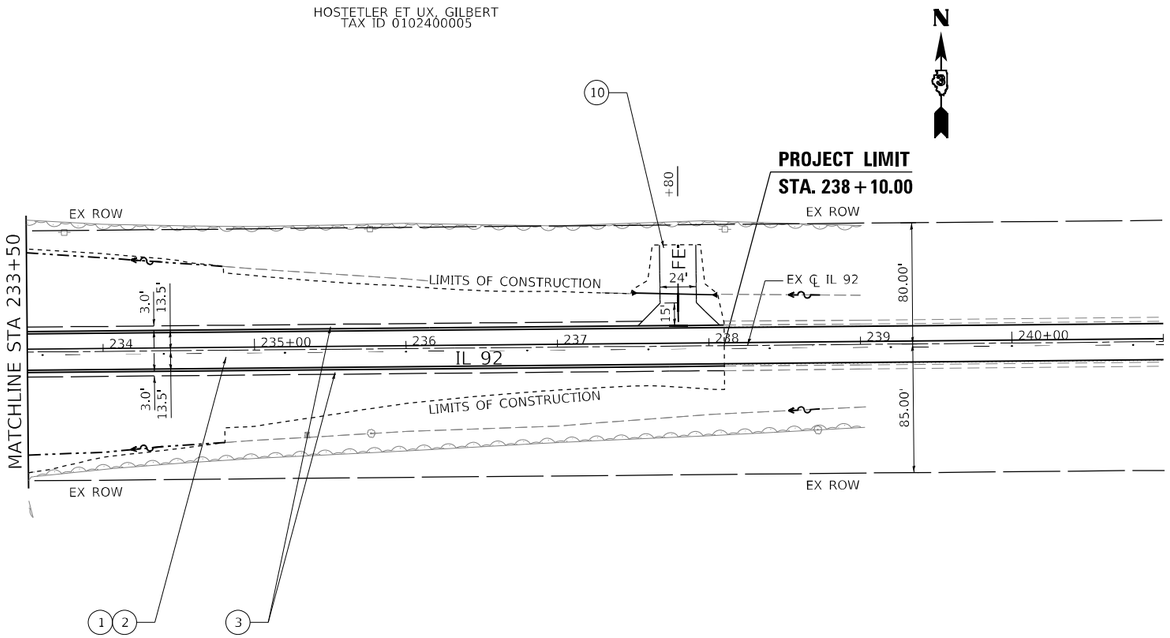
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 92 OVER HENNEPIN CANAL FEEDER
PROPOSED PLAN & PROFILE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(1358-1)BR	BUREAU	84	24
		CONTRACT NO. 66H26		
	ILLINOIS	FED. AID PROJECT		

HOSTETLER ET UX, GILBERT
TAX ID 0102400005



KELLY GANG LLC C/O RONALD L KELLY
TAX ID 0111200003

0 50 100 150
SCALE IN FEET

LEGEND

1. HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 12" (40701921)
2. AGGREGATE SUBGRADE IMPROVEMENT 12" (30300112)
3. AGGREGATE SHOULDERS, TYPE B, 6" (48101500)
4. HOT-MIX ASPHALT SHOULDERS, 8" (48203029)
5. SUBBASE GRANULAR MATERIAL, TYPE B 4" (31101200)
6A. STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS (63000001)
6B. TRAFFIC BARRIER TERMINAL, TYPE 6 (63100085)
6C. TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT (63100167)
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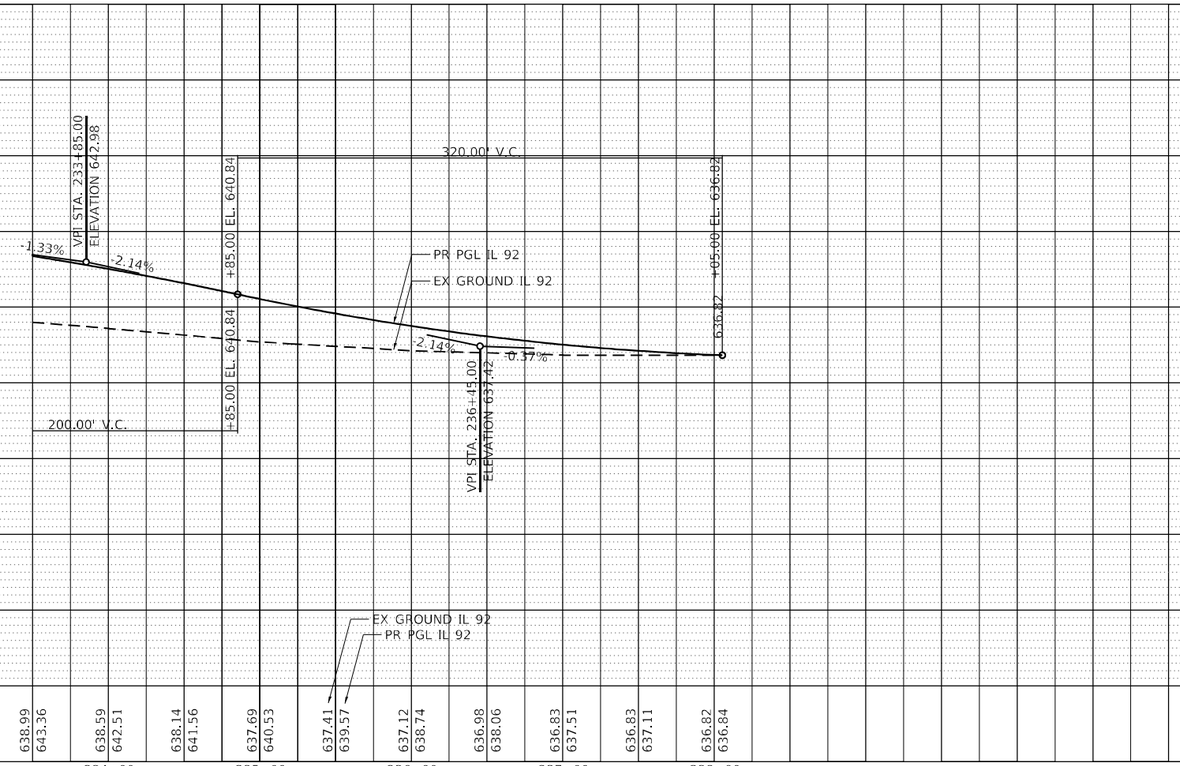
17. DETECTABLE WARNING (42400800)
18. TUBULAR STEEL GATE (X0323013)

NOTES

1. SEE MULTI-USE PATH PLAN & PROFILE FOR ADDITIONAL DETAILS
2. SEE ENTRANCE DETAILS FOR DETAILS AND ELEVATIONS AT ENTRANCES
3. SEE DRAINAGE PLANS FOR LOCATIONS AND DETAILS FOR PROPOSED DRAINAGE ITEMS

PLAN
SURVEYED
PLOTTED
CROSS SECTIONS CHECKED
R.O.W. AGREEMENT CHECKED
RT.-OF-WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
CROSS SECTIONS
B.M. NOTED
STRUCTURE NOTATIONS CHKD
NOTE BOOK
NO.
BY
DATE



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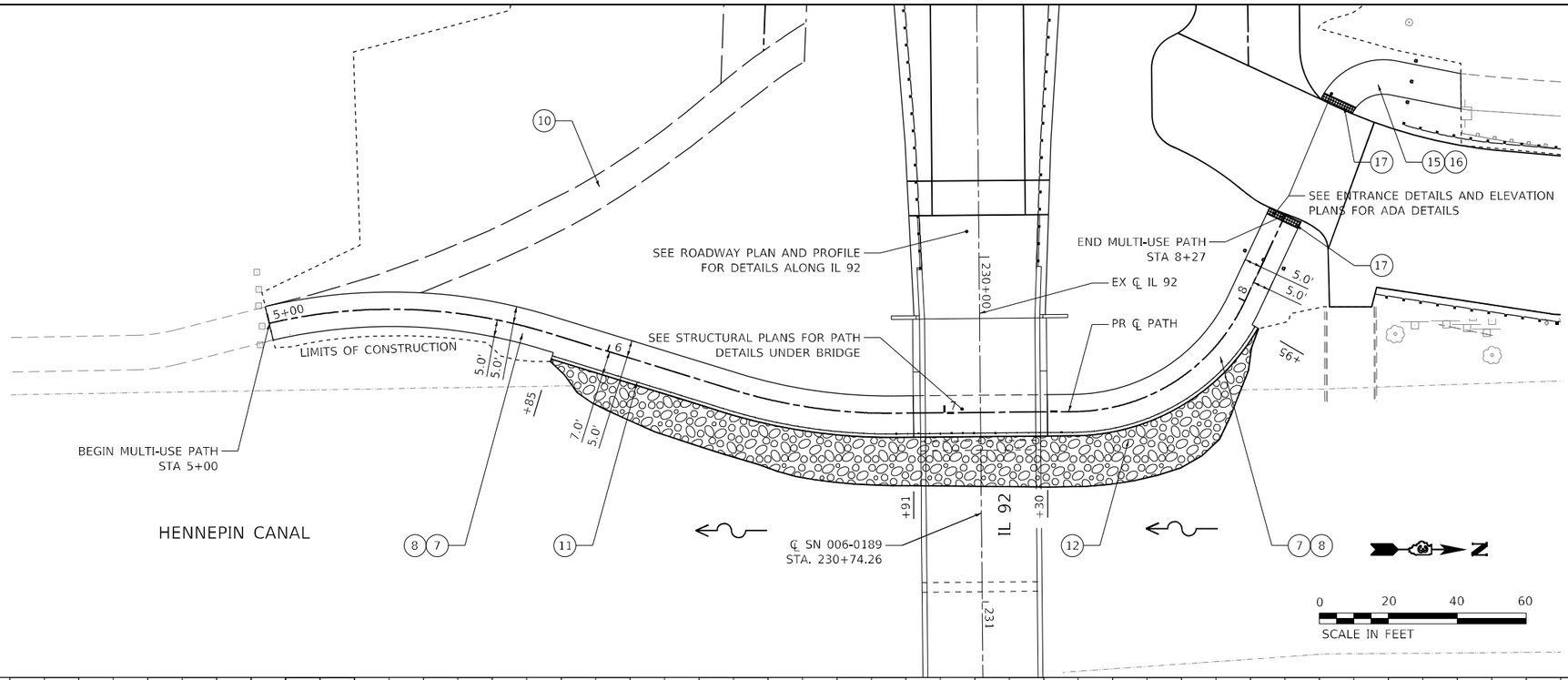
EFK•Moen Civil Engineering Design	USER NAME = RCall	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/3/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 92 OVER HENNEPIN CANAL FEEDER
PROPOSED PLAN & PROFILE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(1358-1)BR	BUREAU	84	25
		CONTRACT NO. 66H26		
	ILLINOIS	FED. AID PROJECT		



LEGEND

1. HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 12" (40701921)
2. AGGREGATE SUBGRADE IMPROVEMENT 12" (30300112)
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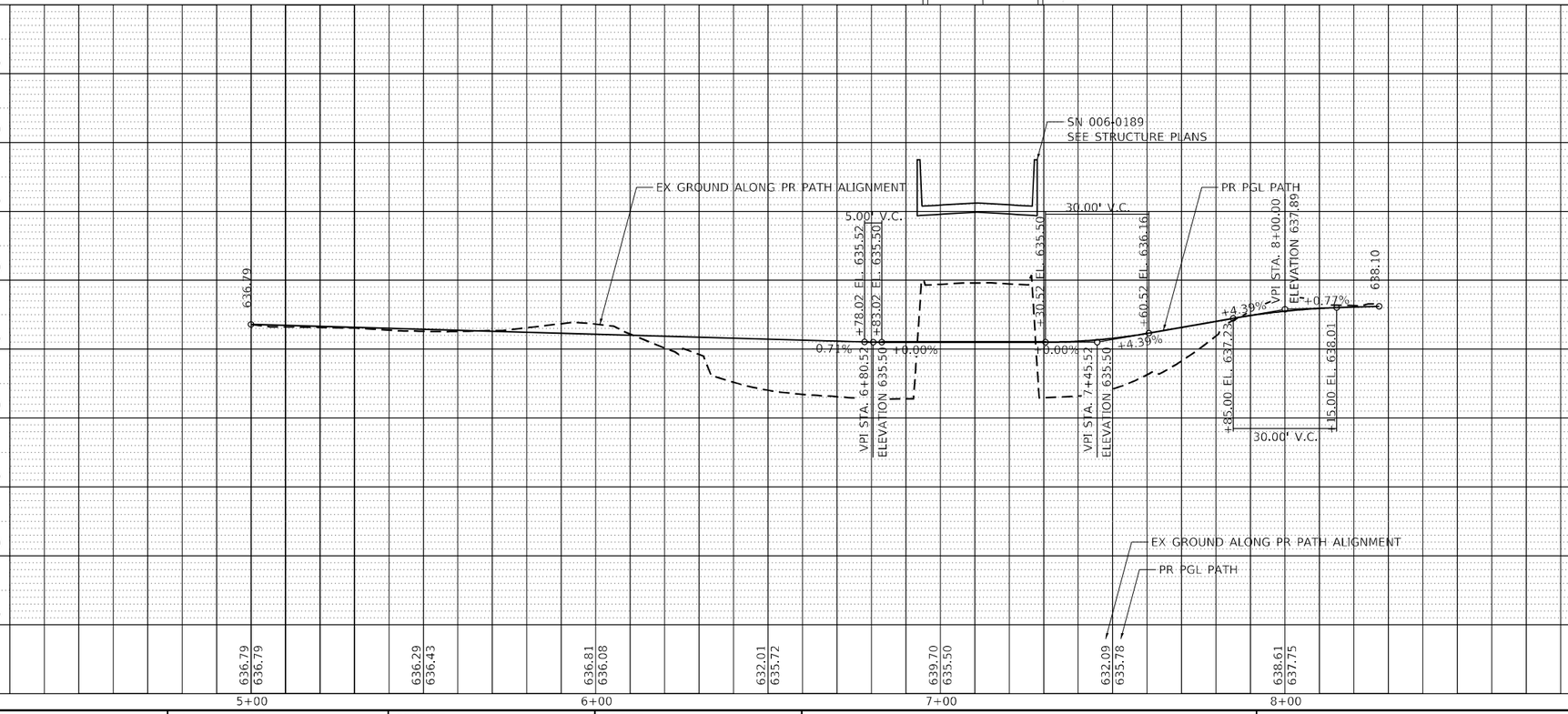


PLAN — SURVEYED — PLOTTED — CHECKED — NOTE BOOK — NO.
PROFILE — SURVEYED — PLOTTED — CHECKED — B.M. NOTED — STRUCTURE NOTATIONS CHKD — NOTE BOOK — NO.
BY — DATE

MODEL: Default
FILE NAME: Z:\20027.09 IDOT D3 PTB 194-027 W09 IL 92 over Hennepin Canal Feeder\DGN\Design\Preliminary\Sheets\D366H26sht-pltprf-sgpl.dgn

EFK•Moen
Civil Engineering Design

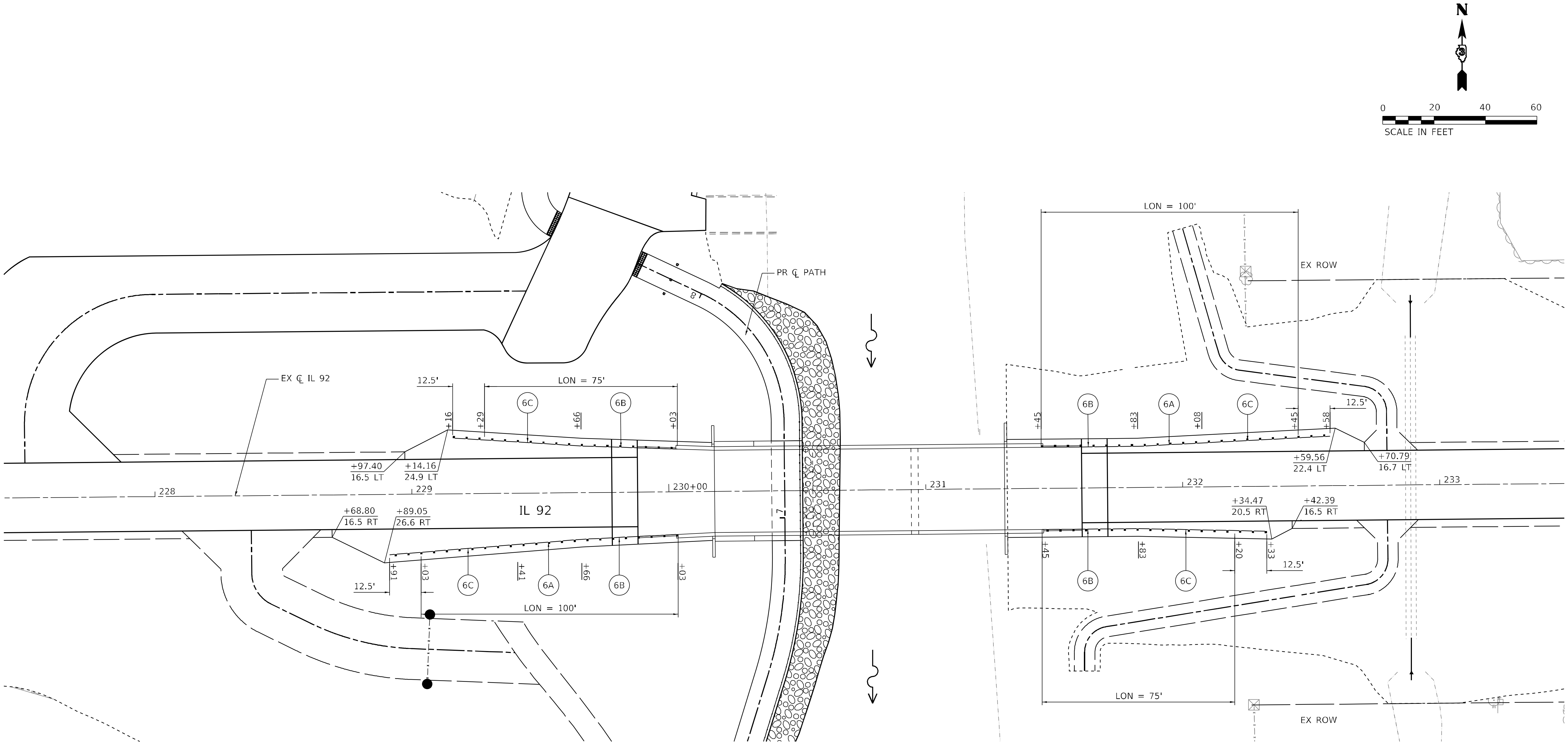
USER NAME = RCall	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/3/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 92 OVER HENNEPIN CANAL FEEDER
PROPOSED PLAN & PROFILE – MULTI-USE PATH

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(1358-1)BR	BUREAU	84	26
		CONTRACT NO. 66H26		
	ILLINOIS FED. AID PROJECT			



LEGEND

6A	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS (63000001), 25'
6B	TRAFFIC BARRIER TERMINAL, TYPE 6 (63100085), 37.5'
6C	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT (63100167), 50'

EFK•Moen
Civil Engineering Design

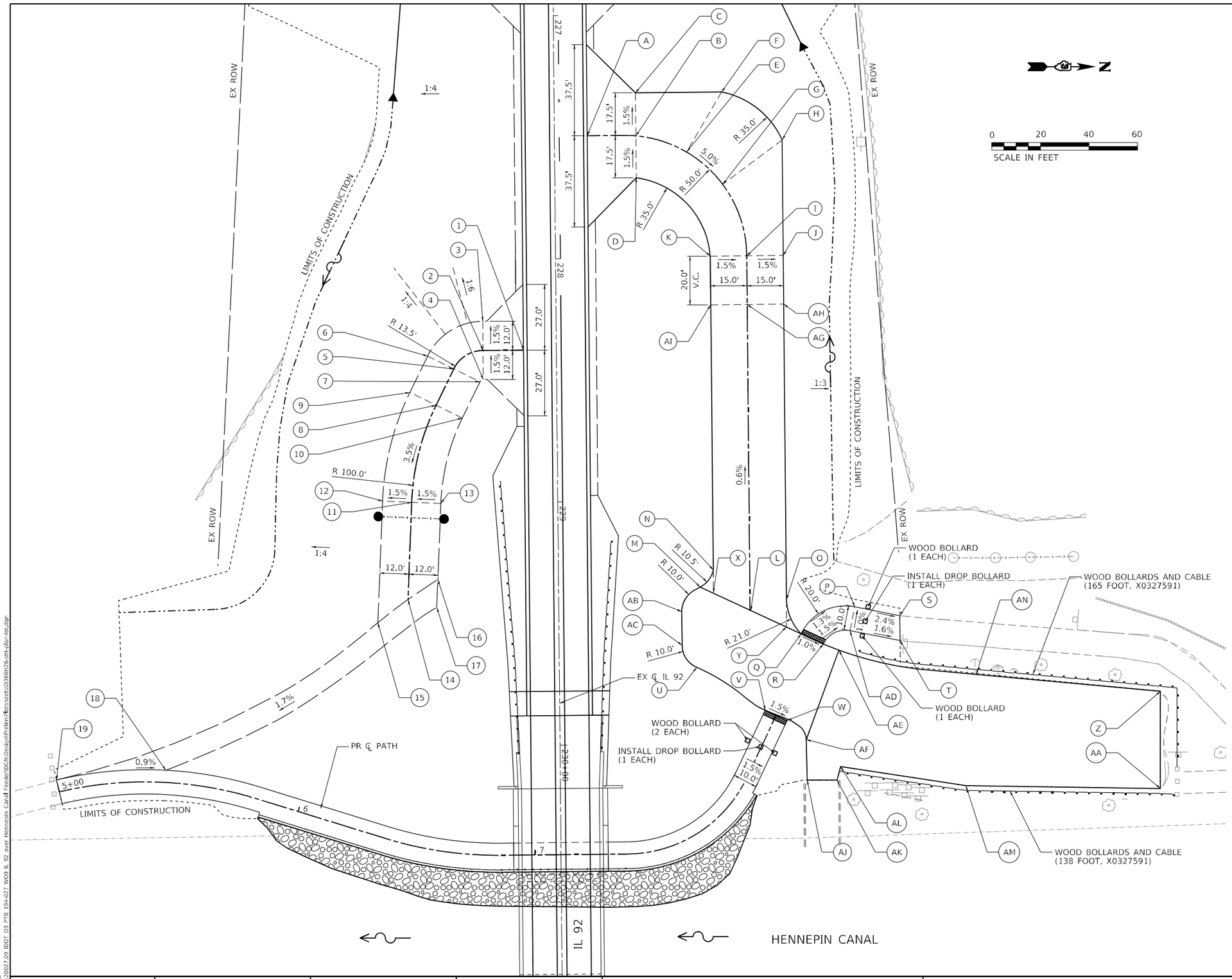
USER NAME = RGall	DESIGNED - RG	REVISED -
	DRAWN - CS	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - JH	REVISED -
PLOT DATE = 8/3/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 92 OVER HENNEPIN CANAL FEEDER
PROPOSED PLAN – GUARDRAIL DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(1358-1)BR	BUREAU	84	27
		CONTRACT NO. 66H26		
		ILLINOIS FED. AID PROJECT		



LEGEND

XXX.XX PR ELEVATION

(XXX.XX) EX ELEVATION

NORTH ENTRANCE DETAILS

PT	STA	OFF	LT/RT	ELEV
A	227+49.50	13.50	LT	642.10
B	227+49.73	33.50	LT	641.13
C	227+32.00	33.50	LT	640.87
D	227+67.00	33.50	LT	641.39
E	227+56.57	54.29	LT	640.03
F	227+32.00	68.95	LT	639.60
G	227+69.98	69.02	LT	639.02
H	227+51.96	93.67	LT	638.56
I	227+99.50	78.67	LT	637.44
J	227+99.50	93.67	LT	637.22
K	227+99.50	63.60	LT	637.67
L	229+45.37	79.00	LT	637.72
M	229+35.56	58.25	LT	637.97
N	229+28.55	63.67	LT	637.85
O	229+41.00	93.67	LT	637.47
P	229+44.24	121.73	LT	637.32
Q	229+55.13	99.63	LT	637.66
R	229+59.41	108.69	LT	637.56
S	229+48.06	140.24	LT	(636.87)
T	229+58.31	140.24	LT	(637.03)
U	229+68.55	56.54	LT	638.21
V	229+86.39	84.49	LT	638.17
W	229+90.73	93.50	LT	638.02
X	229+38.07	63.58	LT	637.93
Y	229+52.26	93.56	LT	637.68
Z	229+80.13	247.11	LT	(637.33)
AA	230+20.13	246.74	LT	(637.48)
AB	229+45.60	50.59	LT	638.09
AC	229+59.41	50.59	LT	638.21
AD	229+54.03	119.69	LT	637.37
AE	229+61.97	115.07	LT	(637.47)
AF	229+98.65	101.30	LT	(637.83)
AG	228+19.50	78.67	LT	637.01
AH	228+19.50	93.67	LT	636.78
AI	228+19.50	63.60	LT	637.23
AJ	230+15.32	101.56	LT	(636.85)
AK	230+15.44	113.77	LT	(636.91)
AL	230+09.85	115.31	LT	(637.25)
AM	230+18.18	166.80	LT	(637.38)
AN	229+72.48	171.42	LT	(637.08)

SOUTH ENTRANCE DETAILS

PT	STA	OFF	LT/RT	ELEV
1	228+37.39	13.50	RT	643.58
2	228+37.39	30.17	RT	642.91
3	228+25.39	30.17	RT	642.73
4	228+49.39	30.17	RT	643.09
5	228+44.87	42.25	RT	642.39
6	228+39.51	52.99	RT	642.21
7	228+50.22	31.51	RT	642.57
8	228+59.76	49.68	RT	641.80
9	228+54.40	60.41	RT	641.62
10	228+65.11	38.94	RT	641.98
11	228+99.58	60.07	RT	640.36
12	228+99.01	72.05	RT	640.18
13	229+00.16	48.08	RT	640.54
14	229+39.56	61.99	RT	(638.93)
15	229+48.99	74.46	RT	(638.33)
16	229+31.44	49.58	RT	(639.16)
17	229+42.90	50.14	RT	(639.09)
18	230+08.85	162.22	RT	636.55
19	230+12.42	207.20	RT	(636.95)

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EFK•Moen
Civil Engineering Design

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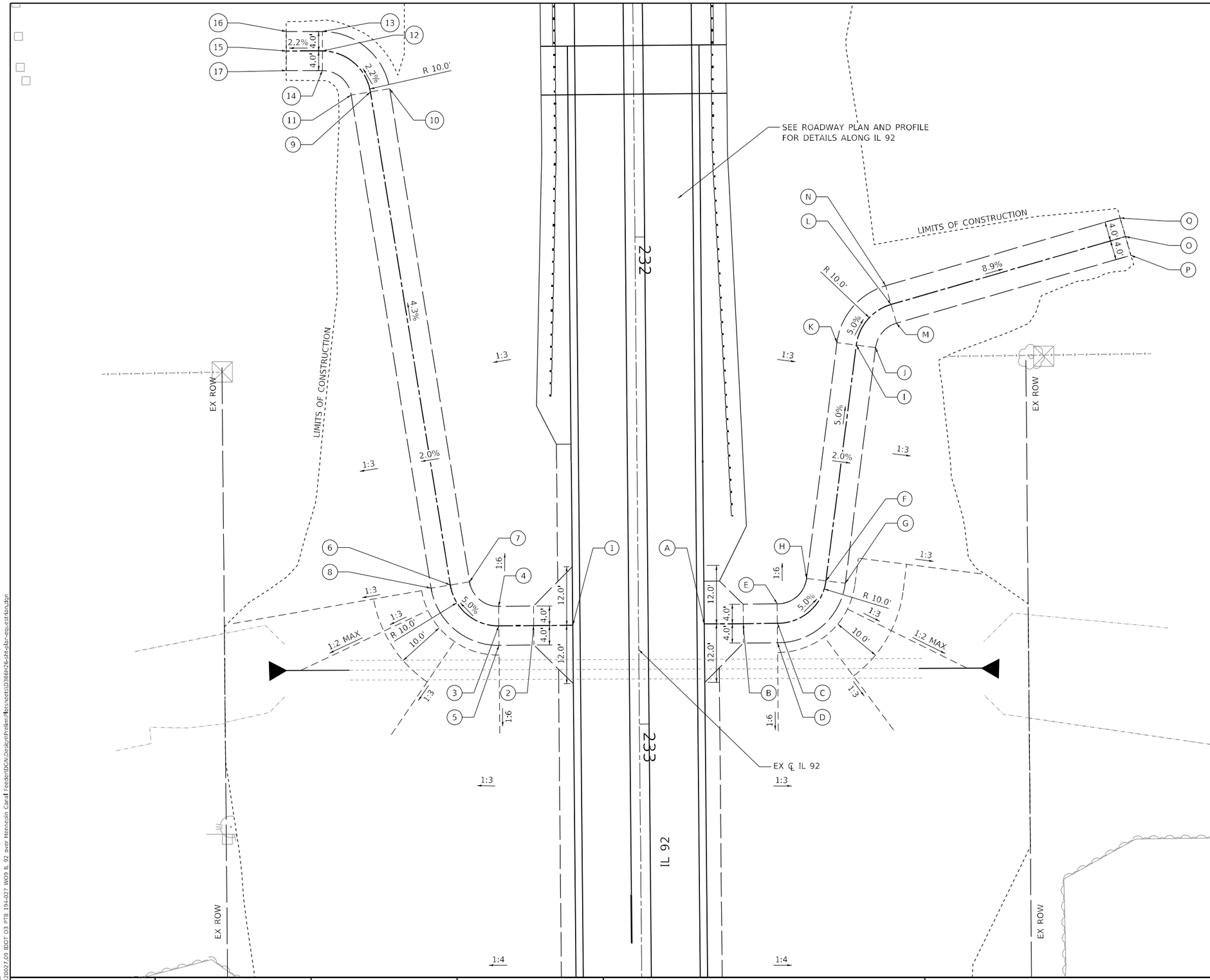
	DRAWN - CS	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - JH	REVISED -	
PLOT DATE = 8/3/2021	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 92 OVER HENNEPIN CANAL FEEDER
PROPOSED PLAN – ENTRANCE DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(1358-1)BR	BUREAU	84	28
		CONTRACT NO. 66H26		
	ILLINOIS FED. AID PROJECT			



0 10 20 30
SCALE IN FEET

LEGEND

XXX.XX PR ELEVATION

(XXX.XX) EX ELEVATION

NORTH TRAIL DETAILS

PT	STA	OFF	LT/RT	ELEV
A	232+79.57	13.50	LT	644.18
B	232+79.57	21.50	LT	643.81
C	232+79.57	28.48	LT	643.46
D	232+83.57	28.48	LT	643.38
E	232+75.57	28.48	LT	643.54
F	232+70.94	38.55	LT	642.74
G	232+71.48	42.51	LT	642.66
H	232+70.39	34.59	LT	642.82
I	232+22.59	45.23	LT	640.30
J	232+23.14	49.19	LT	640.22
K	232+22.04	41.26	LT	640.38
L	232+14.33	52.44	LT	639.72
M	232+18.18	53.52	LT	639.64
N	232+10.48	51.36	LT	639.80
O	232+00.84	100.66	LT	(635.28)
P	232+04.69	101.74	LT	(635.15)
Q	231+96.99	99.58	LT	(635.45)

SOUTH TRAIL DETAILS

PT	STA	OFF	LT/RT	ELEV
1	232+79.57	13.50	RT	644.18
2	232+79.57	21.50	RT	643.81
3	232+79.57	28.66	RT	643.46
4	232+75.57	28.66	RT	643.54
5	232+83.57	28.66	RT	643.38
6	232+71.08	38.55	RT	642.72
7	232+70.47	34.59	RT	642.80
8	232+71.68	42.50	RT	642.64
9	231+69.71	54.01	RT	638.30
10	231+69.11	50.06	RT	638.38
11	231+70.32	57.97	RT	638.22
12	231+61.22	63.81	RT	637.99
13	231+57.22	63.77	RT	638.07
14	231+65.22	63.84	RT	637.91
15	231+61.15	71.19	RT	(637.82)
16	231+57.15	71.15	RT	(637.81)
17	231+65.15	71.22	RT	(637.84)

MODEL: Default
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EFK•Moen
Civil Engineering Design

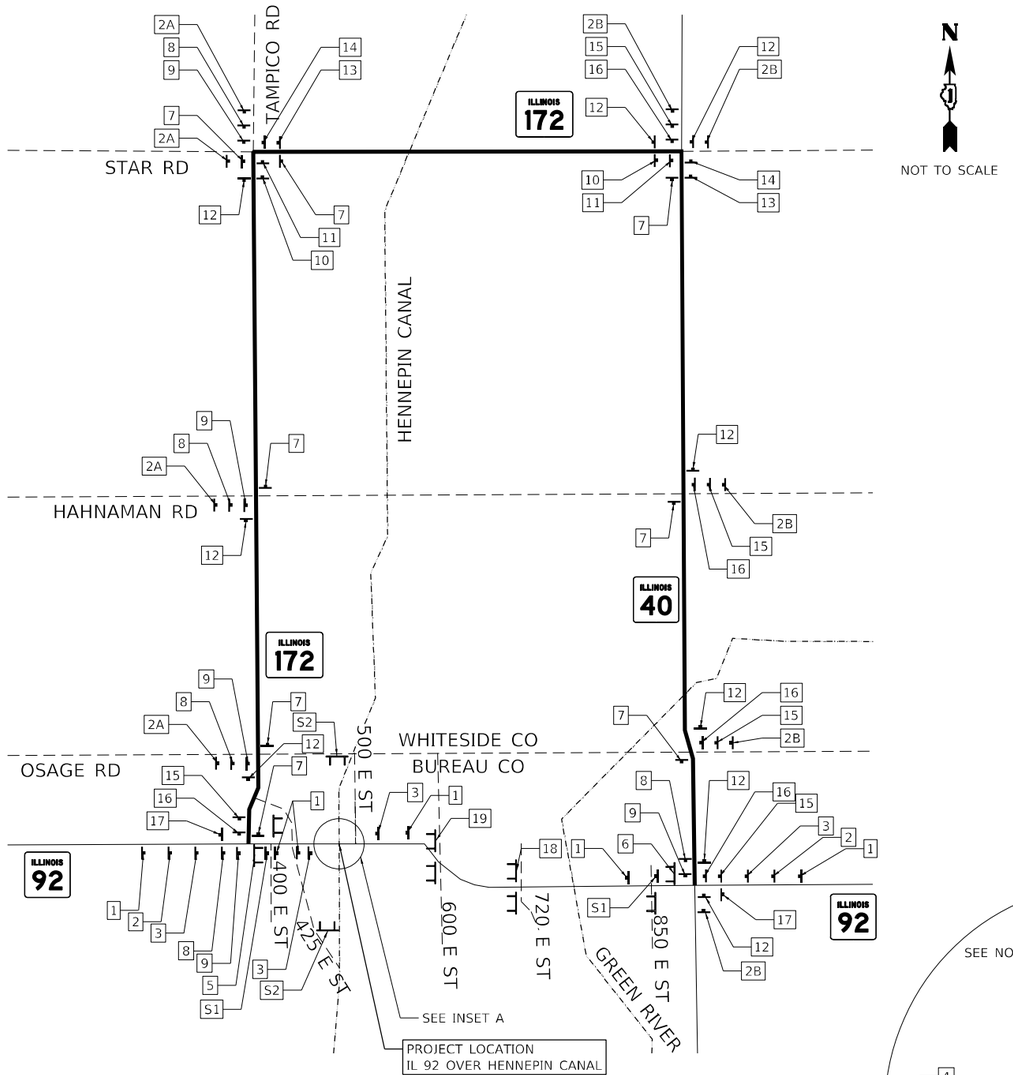
USER NAME = RGall	DESIGNED - RG	REVISED -	
	DRAWN - CS	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED - JH	REVISED -	
PLOT DATE = 8/3/2021	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 92 OVER HENNEPIN CANAL FEEDER
PROPOSED PLAN – EQUESTRIAN ENTRANCE DETAILS

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

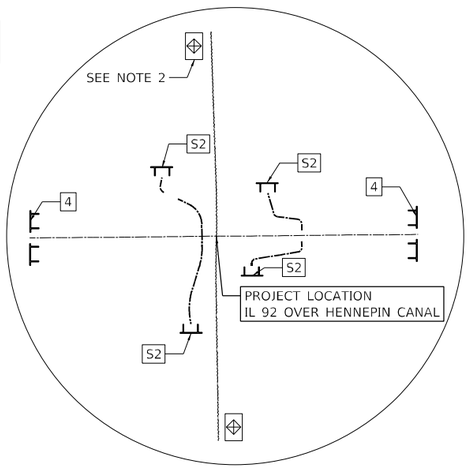
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(135B-1)BR	BUREAU	84	29
		CONTRACT NO. 66H26		
		ILLINOIS	FED. AID PROJECT	



NOT TO SCALE

LEGEND

- DIRECTION OF TRAFFIC
- TYPE III BARRICADE
- REGULATORY BUOY
- PROPOSED VEHICLE DETOUR ROUTE DETOURED VIA IL 172 - IL 40 21.6 MILES
- STATE HIGHWAY
- OTHER MAJOR ROUTE
- WATERWAY



INSET A

1 — ROAD CLOSED AHEAD — W20-3-4848(O) (W AMBER BEACON)

2 — DETOUR AHEAD — W20-2-4848(O) (W AMBER BEACON)

2A — DETOUR AHEAD — W20-2-4848(O) (W AMBER BEACON); EAST — M3-2-2412(O); ILLINOIS 92 — M1-5-2424

2B — DETOUR AHEAD — W20-2-4848(O) (W AMBER BEACON); WEST — M3-4-2412(O); ILLINOIS 92 — M1-5-2424

3 — ROAD CLOSED 500 FT — W20-3-4848(O)

* 4 — ROAD CLOSED — R11-2-4830

* 5 — BRIDGE OUT 1 MILES AHEAD LOCAL TRAFFIC ONLY — R11-3B-6030; DETOUR — M4-10L-4818(O)

* 6 — BRIDGE OUT 4 ¼ MILES AHEAD LOCAL TRAFFIC ONLY — R11-3B-6030; DETOUR — M4-10R-4818(O)

7 — DETOUR — M4-8-2412(O); EAST — M3-2-2412(O); ILLINOIS 92 — M1-5-2424; ↑ — M6-3-2115(O)

8 — DETOUR — M4-8-2412(O); EAST — M3-2-2412(O); ILLINOIS 92 — M1-5-2424; ↰ — M5-1L-2115(O)

9 — DETOUR — M4-8-2412(O); EAST — M3-2-2412(O); ILLINOIS 92 — M1-5-2424; ← — M6-1-2115(O)

10 — DETOUR — M4-8-2412(O); EAST — M3-2-2412(O); ILLINOIS 92 — M1-5-2424; ↱ — M5-1R-2115(O)

11 — DETOUR — M4-8-2412(O); EAST — M3-2-2412(O); ILLINOIS 92 — M1-5-2424; → — M6-1-2115(O)

12 — DETOUR — M4-8-2412(O); WEST — M3-4-2412(O); ILLINOIS 92 — M1-5-2424; ↑ — M6-3-2115(O)

13 — DETOUR — M4-8-2412(O); WEST — M3-4-2412(O); ILLINOIS 92 — M1-5-2424; ↰ — M5-1L-2115(O)

14 — DETOUR — M4-8-2412(O); WEST — M3-4-2412(O); ILLINOIS 92 — M1-5-2424; ← — M6-1-2115(O)

15 — DETOUR — M4-8-2412(O); WEST — M3-4-2412(O); ILLINOIS 92 — M1-5-2424; ↱ — M5-1R-2115(O)

16 — DETOUR — M4-8-2412(O); WEST — M3-4-2412(O); ILLINOIS 92 — M1-5-2424; → — M6-1-2115(O)

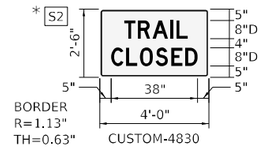
17 — END DETOUR — M4-8A-2418

* 18 — BRIDGE OUT 2 ¾ MILES AHEAD LOCAL TRAFFIC ONLY — R11-3B-6030

* 19 — BRIDGE OUT 1 ¼ MILES AHEAD LOCAL TRAFFIC ONLY — R11-3B-6030

S1 — ROAD CLOSED TO THRU TRAFFIC; BEGINS XX-XX-XX — CUSTOM-7242(O) SEE NOTE 1

* S2 — TRAIL CLOSED



LEGEND & LETTERING = BLACK
BACKGROUND = WHITE
PAID FOR AS TEMPORARY INFORMATION SIGNING

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

NOTES

1. REFER TO DISTRICT DETAIL 720-11, TEMPORARY INFORMATION SIGNING - ROAD CLOSED TO THRU TRAFFIC
2. PLACE REGULATORY BUOYS ("KEEP OUT") WITH ORANGE DIAMOND WITH AN ORANGE CROSS INSIDE. ON EACH SIDE OF THE CANAL (TOTAL OF 2).
3. ITEMS AS SHOWN ON STANDARD BLR 21-TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS TO BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21

MODEL: Default
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EFK•Moen Civil Engineering Design

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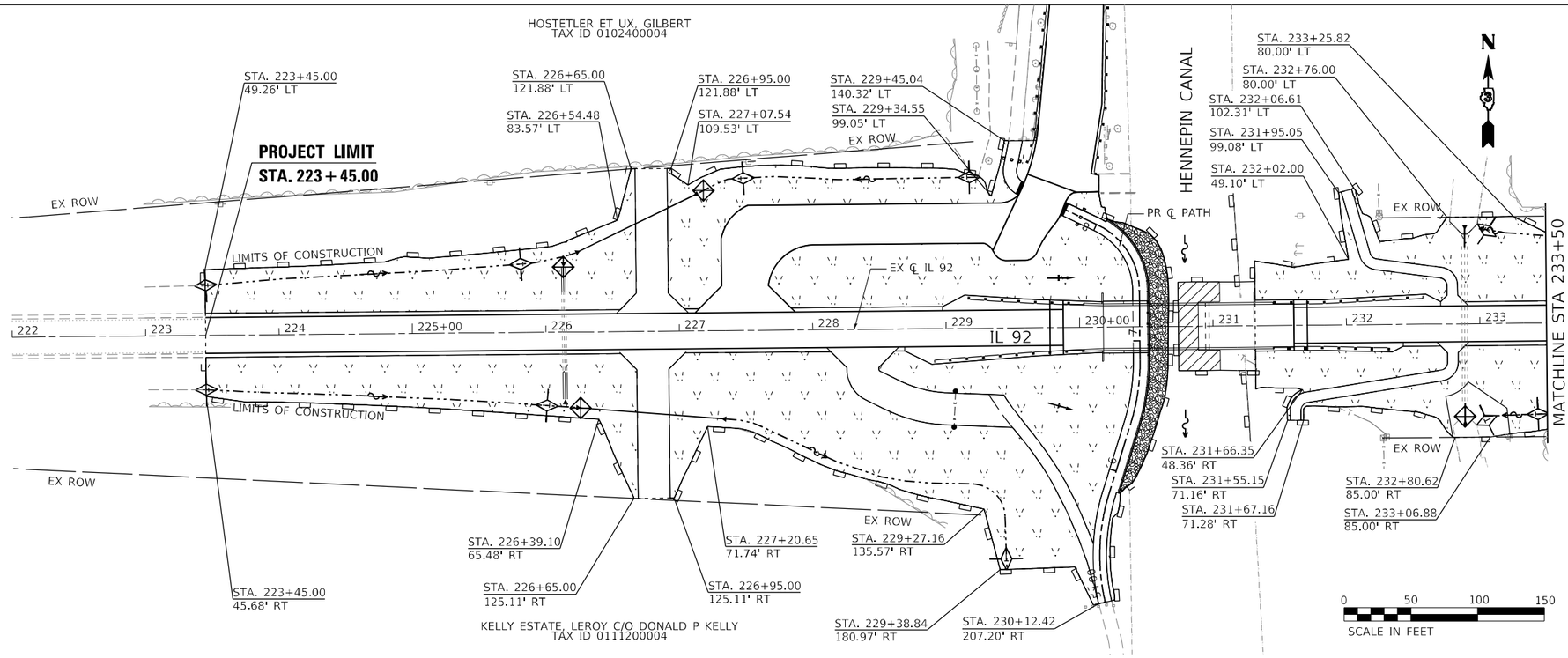
	DRAWN - CS	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - JH	REVISED -
PLOT DATE = 8/3/2021	DATE -	REVISED -

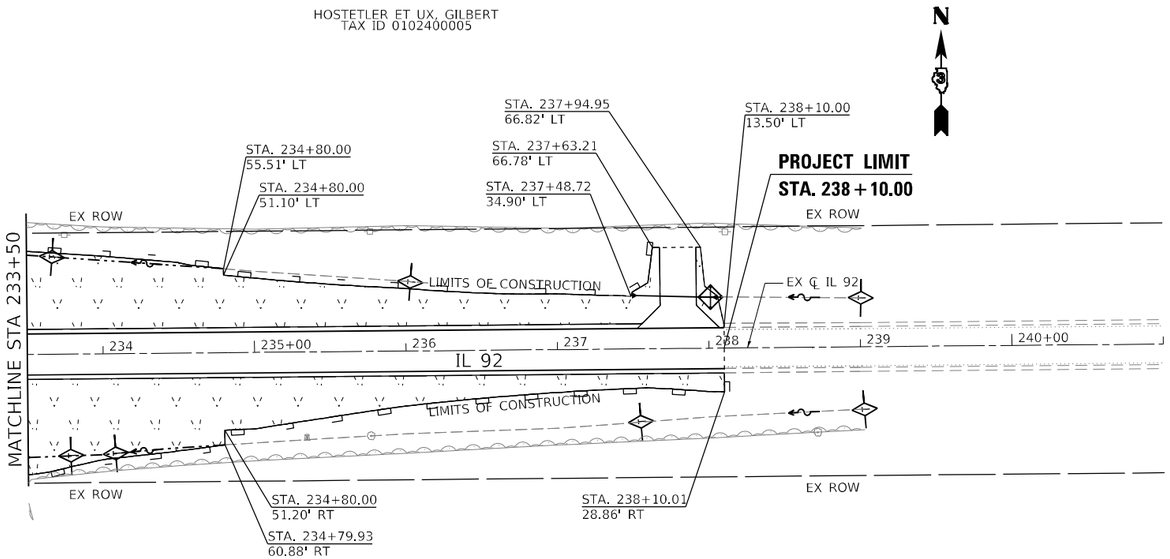
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 92 OVER HENNEPIN CANAL FEEDER
DETOUR PLAN

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(135B-1)BR	BUREAU	84	30
		CONTRACT NO. 66H26		
	ILLINOIS FED. AID PROJECT			





LEGEND

- TEMPORARY DITCH CHECKS (28000305)
- TEMPORARY EROSION CONTROL SEEDING (28000250)
- PERIMETER EROSION BARRIER (28000400)
- INLET AND PIPE PROTECTION (28000500)
- TEMPORARY CAUSEWAY

MODEL: Default
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EFK•Moen
Civil Engineering Design

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	DRAWN - CS	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - JH	REVISED -
PLOT DATE = 8/3/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 92 OVER HENNEPIN CANAL FEEDER
EROSION CONTROL PLAN

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(1358-1)BR	BUREAU	84	31
		CONTRACT NO. 66H26		
	ILLINOIS FED. AID PROJECT			

PIPE SCHEDULE										
PIPE NO	SLOPE	FROM		TO		PRECAST CONCRETE BOX CULVERTS 3' X 3'	PIPE CULVERTS, CLASS A, TYPE 1 - 18"	PIPE CULVERTS, CLASS A, TYPE 1 - 36"	PIPE CULVERTS, CLASS A, TYPE 2 - 36"	PIPE CULVERTS, CLASS C, TYPE 2 - 48"
		STRUC NO	INVERT	STRUC NO	INVERT					
	%					FOOT	FOOT	FOOT	FOOT	FOOT
P1	0.3%	1	631.19	EX	631.11	17				
P2	0.3%	EX	630.88	2	630.81	18				
P3	0.3%	3A	631.51	3B	631.23			86		
P4	0.1%	4A	630.62	4B	630.47				97	
P5	0.4%	5	626.54	EX	626.47					10
P6	0.4%	EX	625.96	6	625.89					10
P7	0.5%	7A	633.57	7B	633.29		45			
					TOTAL	35	45	86	97	20

STRUCTURE SCHEDULE							
STRUC NO	STA	O/S	INV.	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	PRECAST REINFORCED CONCRETE FLARED END SECTION 36"	METAL FLARED END SECTIONS 48"	BOX CULVERT END SECTIONS. CULVERT NO. 1
				EA	EA	EA	EA
1	226+13.60	52.47' LT	631.19				1
2	226+14.26	54.06' RT	630.81				1
3A	227+14.91	103.00' LT	631.51		1		
3B	226+22.93	59.26' LT	631.23		1		
4A	226+22.26	56.54' RT	630.62		1		
4B	227+34.60	66.30' RT	630.47		1		
5	232+89.18	73.93' LT	626.54			1	
6	232+88.29	75.90' RT	625.89			1	
7A	238+05.84	33.50' LT	633.57	1			
7B	237+49.49	35.28' LT	633.29	1			
			TOTAL	2	4	2	2

UNDERDRAIN SCHEDULE			
UNDERDRAIN NUMBER	PIPE UNDERDRAIN 1" (SPECIAL	PIPE UNDERDRAIN TYPE 3	CONCRETE HEADWALL FOR PIPE DRAINS
	FOOT	FOOT	EACH
U-101	15	213	1
U-102	15	401	1
U-103	15	425	1
U-104	15	237	1
U 105	15	289	1
U-106	15	289	1
U-107	15	296	1
U-108	15	351	1
TOTAL	120	2501	8

DRAINAGE NOTES

STATION, OFFSET, AND INVERT ELEVATION SHALL REFER TO THE INLET/OUTLET OF EACH END SECTION. THE SLOPE OF EACH END SECTION SHALL MATCH THE PIPE SLOPE.

EFK•Moen
Civil Engineering Design

USER NAME = RCall	DESIGNED - RG	REVISED -	
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PLOT DATE = 8/3/2021	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 92 OVER HENNEPIN CANAL FEEDER
PROPOSED DRAINAGE DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(1358-1)BR	BUREAU	84	32
		CONTRACT NO. 66H26		
	ILLINOIS FED. AID PROJECT			

HOSTETLER ET UX, GILBERT
TAX ID 0102400004

STA. 229+22.00
140.00' LT

STA. 232+26.00
80.00' LT

HENNEPIN CANAL

N

PROJECT LIMIT
STA. 223 + 45.00

EX ROW

LIMITS OF CONSTRUCTION

99.31'

106.79'

3.0'

13.5'

PR ℄ PATH

EX ℄ IL 92

IL 92

222 223 224 225+00 226 227 228 229 230+00 231 232 233

MATCHLINE STA 233+50

U-101 U-102 U-103 U-104 U-105 U-106

1 2 3A 3B 4A 4B 5 6

P1 P2 P3 P4 P5 P6

EX UNDERGROUND TELEPHONE LINE
(TO REMAIN)

STA. 229+25.00
140.00' RT

STA. 232+26.00
85.00' RT

EX UNDERGROUND TELEPHONE LINE
(TO BE ABANDONED BY OTHERS)

PR UNDERGROUND TELEPHONE LINE
(BY OTHERS)

KELLY ESTATE, LEROY C/O DONALD P KELLY
TAX ID 0111200004

LEGEND

- EX DITCH
- PR 2' BOTTOM DITCH
- 1 — PR DRAINAGE STRUCTURE
- P1 — PR PIPE
- U-101 — PR PIPE UNDERDRAIN

NOTE

1. A UTILITY LINE (FRONTIER) IS CURRENTLY ATTACHED TO THE SOUTH SIDE OF THE STRUCTURE. THE CONTRACTOR SHALL VERIFY WITH FRONTIER IF THE LINE IS INACTIVE PRIOR TO REMOVAL. THE REMOVAL OF THIS LINE AND ANY NEARBY LINES INTERFERING WITH THE PROPOSED CONSTRUCTION OF THE NEW STRUCTURE SHALL BE CONSIDERED AS INCLUDED IN THE COST OF THE REMOVAL OF THE EXISTING STRUCTURE.

0 50 100 150
SCALE IN FEET

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
DATE
BY

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
R.M. NOTED
STRUCTURE NOTATIONS CHKD
NOTE BOOK
NO.
DATE
BY

PR EXTENSION OF 3' X 3' BOX CULVERT

PR 36" RCP

PR PGL IL 92

EX GROUND IL 92

SN 006-0189
SEE STRUCTURE PLANS

D.H.W.
634.60

PR EXTENSION OF 48" CMP CULVERT

+45 (LT) EX DITCH PR DITCH +45 (LT)
+00 (LT) 631.55 631.42
-0.29%
-0.29%
+00 (RT) 631.11 +45 (RT) 630.98
EX DITCH PR DITCH +45 (RT)

-0.08%
-0.13%

+14 (LT) 631.20
STA. 226+22.93
INV 631.23
+14 (RT) 630.63
STA. 226+22.26
INV 630.62

STA. 227+11.91
INV 631.51
STA. 227+34.60
INV 630.47

+0.31%
-0.15%

+25 (LT) 632.15
+37 (RT) 630.14

+50 (LT) 631.99
+90 (LT) 628.00
+6.65%
+2.69%
+90 (RT) 628.00

EX GROUND IL 92
PR PGL IL 92

655	650	645	640	635	630	625
636.41	636.46	636.60	636.78	637.08	637.33	637.74
636.42	636.72	637.15	637.72	638.43	639.28	640.27

638.10	638.63	639.08	639.42	639.64	639.82	639.87	639.86	639.83	639.88	639.81	639.57	639.29	638.99
641.34	642.31	643.19	643.97	644.63	645.13	645.47	645.64	645.66	645.51	645.20	644.73	644.10	643.36

223+00 224+00 225+00 226+00 227+00 228+00 229+00 230+00 231+00 232+00 233+00

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EFK•Moen
Civil Engineering Design

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	DRAWN -	REVISED -
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PLOT DATE = 8/3/2021	DATE -	REVISED -

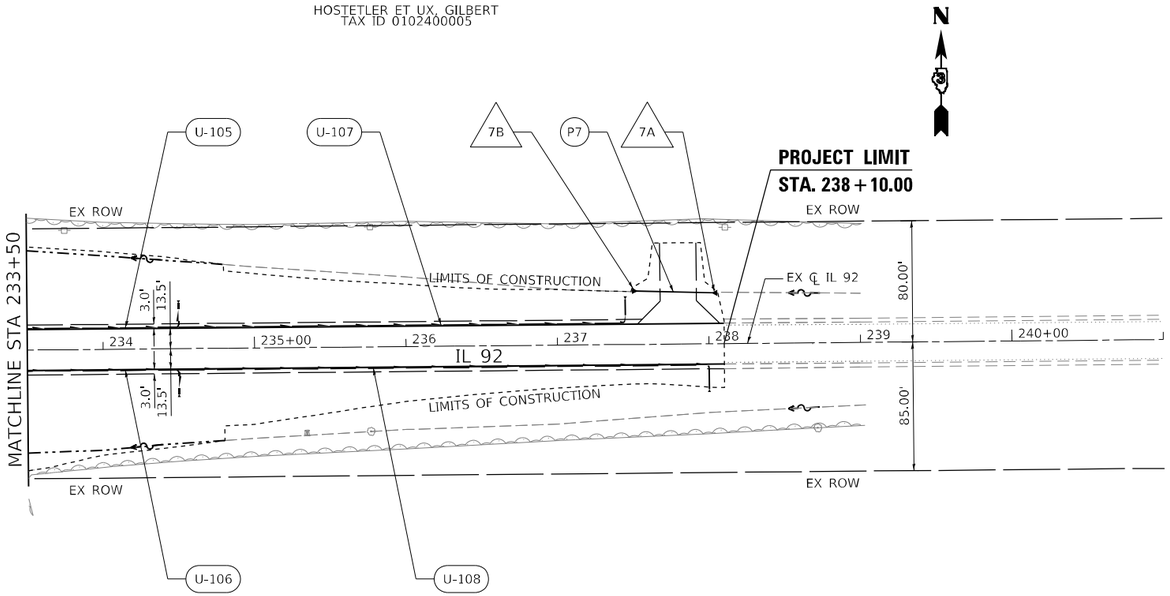
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 92 OVER HENNEPIN CANAL FEEDER
DRAINAGE & UTILITY PLAN

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(1358-1)BR	BUREAU	84	33
		CONTRACT NO. 66H26		
	ILLINOIS	FED. AID PROJECT		

HOSTETLER ET UX, GILBERT
TAX ID 0102400005

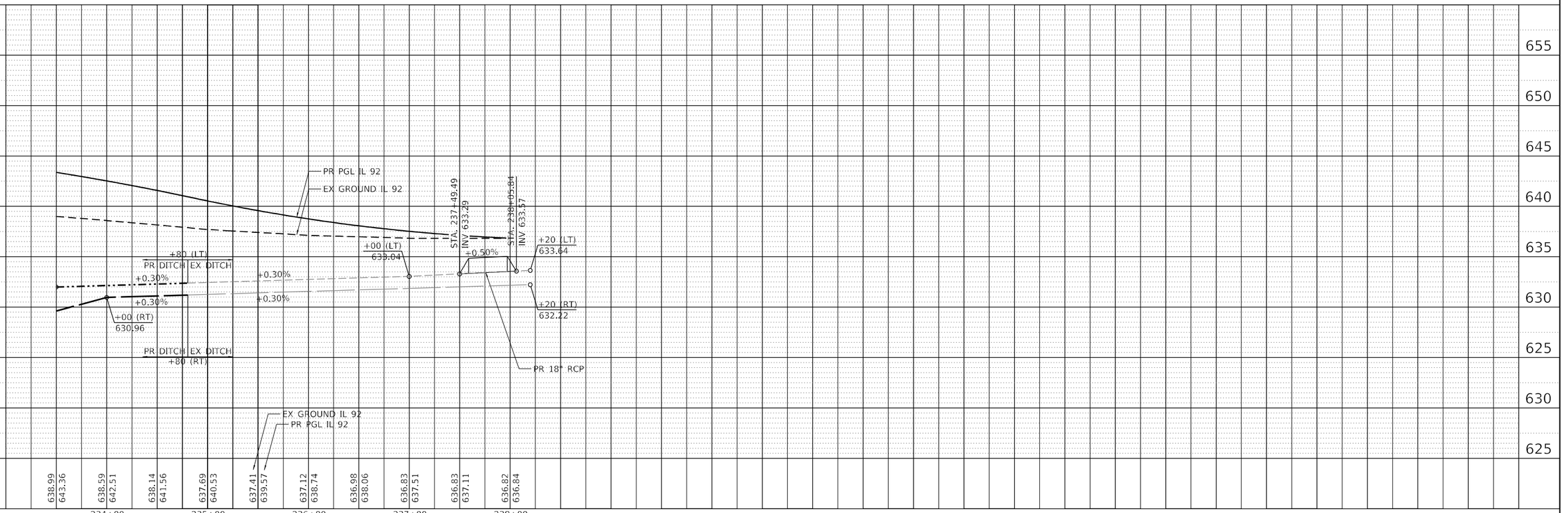


KELLY GANG LLC C/O RONALD L KELLY
TAX ID 0111200003

LEGEND

- EX DITCH
- PR 2' BOTTOM DITCH
- 1 — PR DRAINAGE STRUCTURE
- P1 — PR PIPE
- U-101 — PR PIPE UNDERDRAIN

0 50 100 150
SCALE IN FEET



PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT.-OF-WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
R.M. NOTED
STRUCTURE NOTATIONS CHKD
NOTE BOOK
NO.
BY
DATE

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Civil Engineering Design

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PLOT DATE = 8/3/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 92 OVER HENNEPIN CANAL FEEDER
DRAINAGE & UTILITY PLAN

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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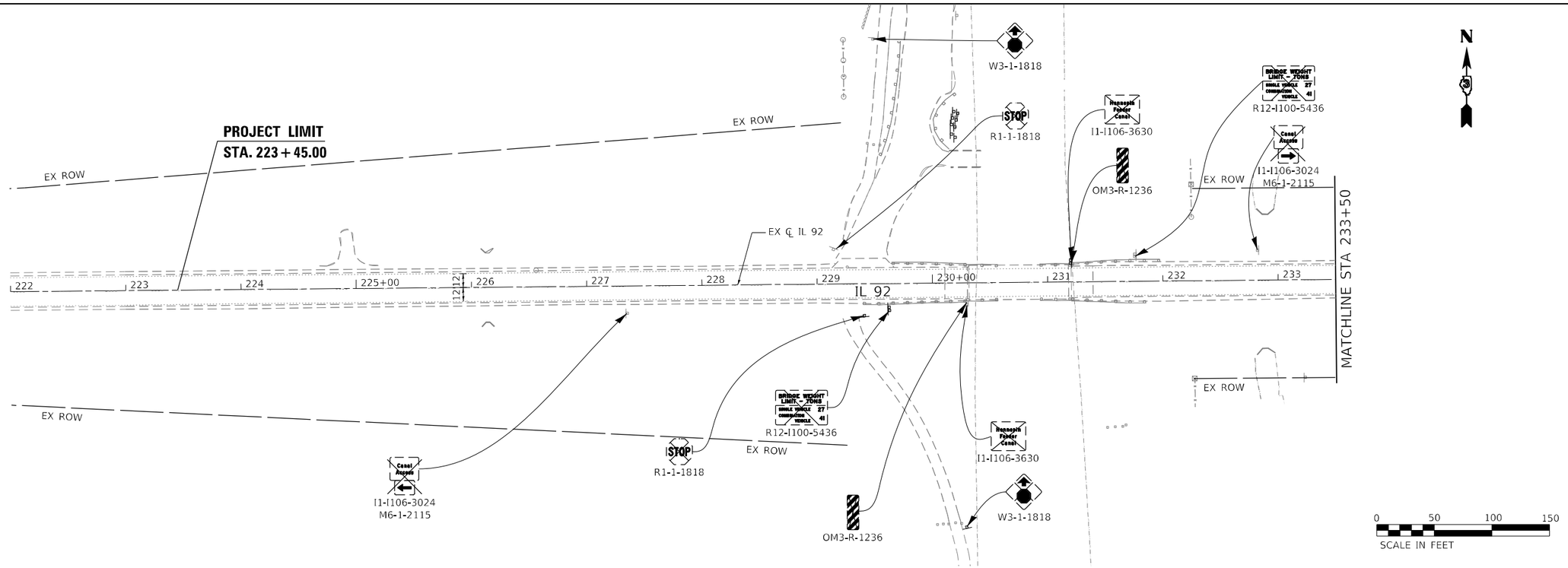
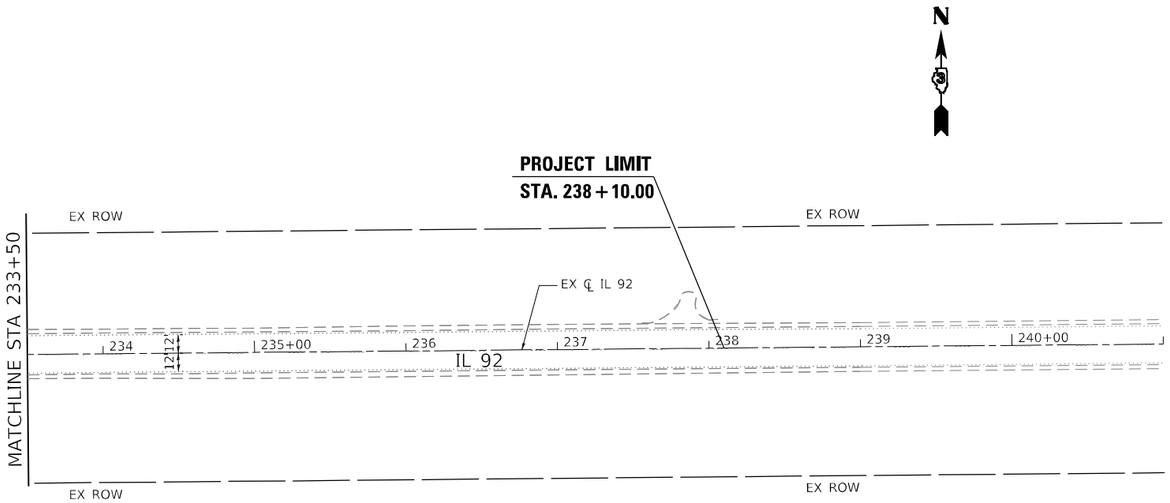
		CONTRACT NO. 66H26		
	ILLINOIS	FED. AID PROJECT		





LEGEND

STOP EXISTING SIGN TO BE REMOVED

NOTES:

1. ALL EXISTING SIGNS REMOVED SHALL BE DELIVERED TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION AFTER REMOVAL.

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	DRAWN - CS	REVISED -
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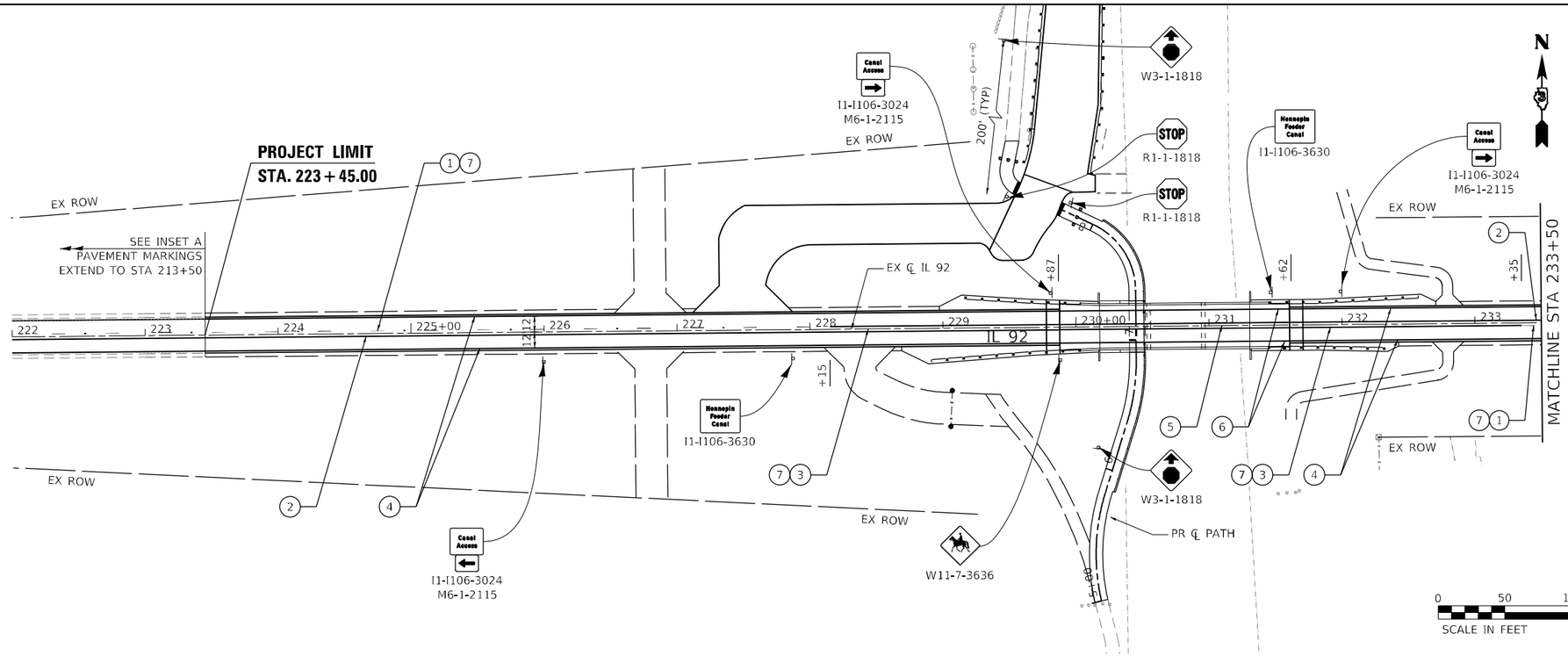
PLOT DATE = 8/3/2021	DATE -	REVISED -

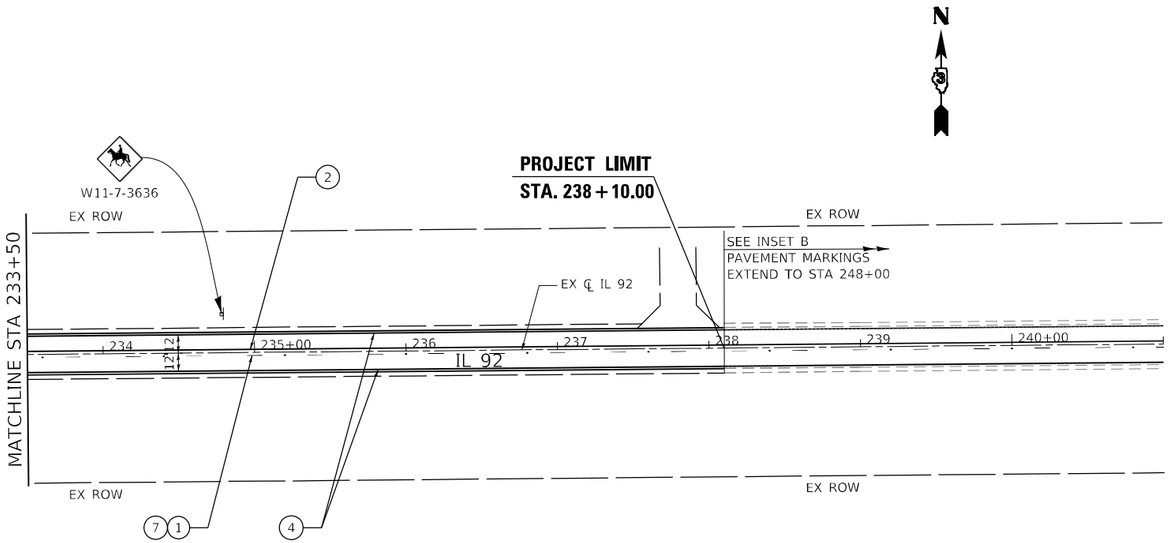
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 92 OVER HENNEPIN CANAL FEEDER
EXISTING SIGN REMOVAL PLAN

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(1358-1)BR	BUREAU	84	35
		CONTRACT NO. 66H26		
	ILLINOIS FED. AID PROJECT			





LEGEND

(1) POLYUREA PAVEMENT MARKING TYPE I - LINE 6" (10' - DASH, 30' - SKIP, YELLOW) - GROOVED

(2) POLYUREA PAVEMENT MARKING TYPE I - LINE 4" (SOLID YELLOW) - GROOVED

(3) POLYUREA PAVEMENT MARKING TYPE I - LINE 4" (DOUBLE SOLID YELLOW) - GROOVED

(4) POLYUREA PAVEMENT MARKING TYPE I - LINE 4" (SOLID WHITE) - GROOVED

(5) POLYUREA PAVEMENT MARKING TYPE I - LINE 4" (DOUBLE SOLID YELLOW)

(6) POLYUREA PAVEMENT MARKING TYPE I - LINE 4" (SOLID WHITE)

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

STOP PROPOSED SIGN

NOTES:

1. STOP SIGNS SHALL BE TYPE ZZ SHEETING. ALL OTHER SIGNS SHALL BE TYPE AP SHEETING.
2. PAVEMENT MARKINGS SHALL BE APPLIED IN TWO APPLICATIONS. THE FIRST APPLICATION SHALL BE ALLOWED TO DRY PRIOR TO PLACING THE SECOND APPLICATION OVER THE FIRST. THE CONTRACTOR SHALL NOT PLACE ONE THICK APPLICATION IN LIEU OF TWO REGULAR APPLICATIONS.

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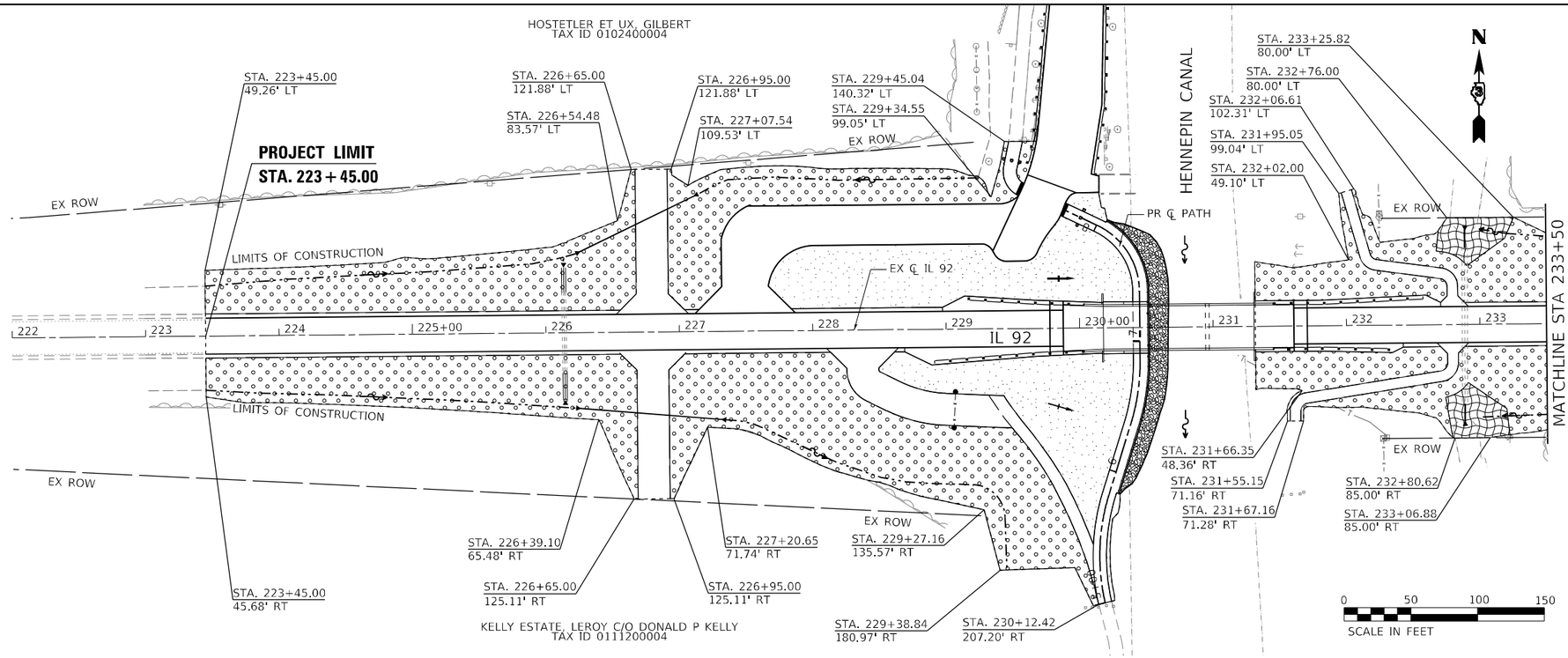
PLOT DATE = 8/3/2021	DATE -	REVISED -

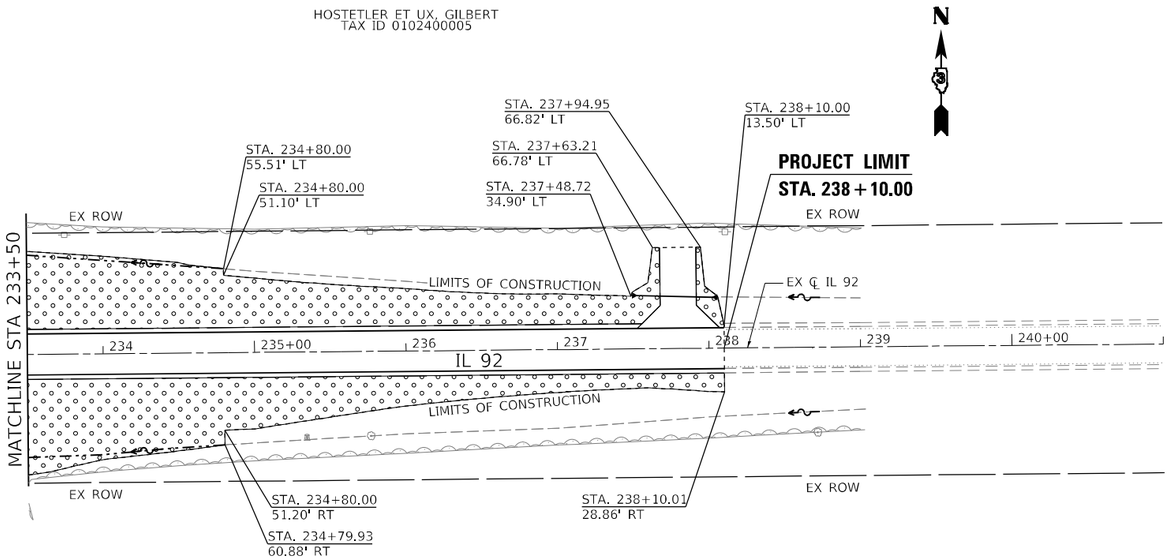
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 92 OVER HENNEPIN CANAL FEEDER
SIGNING AND PAVEMENT MARKING PLAN

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(1358-1)BR	BUREAU	84	36
		CONTRACT NO. 66H26		
	ILLINOIS FED. AID PROJECT			





LEGEND

SEEDING CLASS 1B (25000115)
NITROGEN FERTILIZER NUTRIENT (25000400)
PHOSPHORUS FERTILIZER NUTRIENT (25000500)
POTASSIUM FERTILIZER NUTRIENT (25000600)
EROSION CONTROL BLANKET (25100630)

SEEDING CLASS 2A (25000210)
NITROGEN FERTILIZER NUTRIENT (25000400)
PHOSPHORUS FERTILIZER NUTRIENT (25000500)
POTASSIUM FERTILIZER NUTRIENT (25000600)
EROSION CONTROL BLANKET (25100630)

SEEDING CLASS 3 (25000300)
NITROGEN FERTILIZER NUTRIENT (25000400)
PHOSPHORUS FERTILIZER NUTRIENT (25000500)
POTASSIUM FERTILIZER NUTRIENT (25000600)
HEAVY DUTY EROSION CONTROL BLANKET (25100635)

NOTES

1. CARE SHALL BE TAKEN TO AVOID BROADCASTING FERTILIZER NUTRIENTS AT AREAS ALONG THE CANAL.

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Civil Engineering Design

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	DRAWN - CS	REVISED -
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PLOT DATE = 8/3/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 92 OVER HENNEPIN CANAL FEEDER
LANDSCAPING PLAN

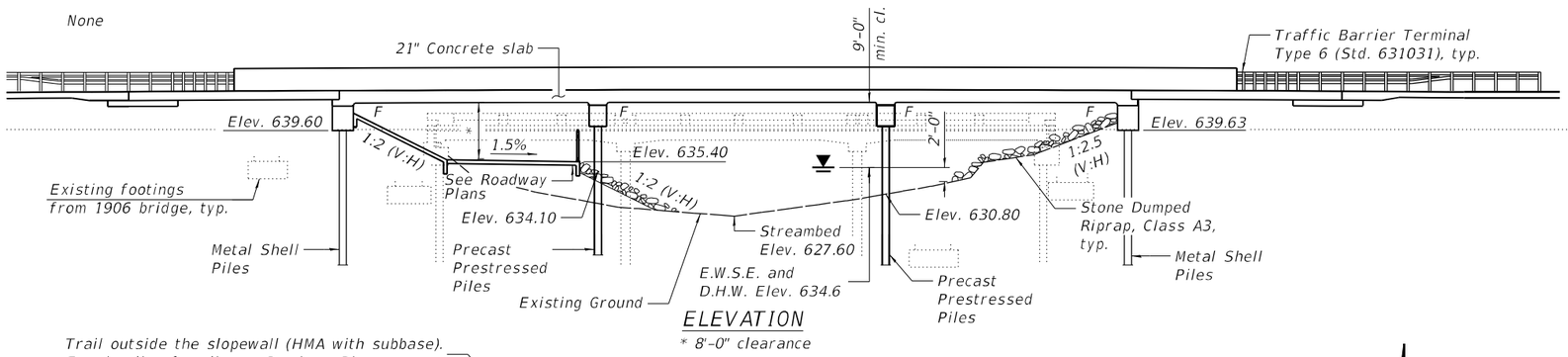
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(1358-1)BR	BUREAU	84	37
		CONTRACT NO. 66H26		
	ILLINOIS FED. AID PROJECT			

Benchmark: RR Spike in west side of power pole, west of boat ramp. Sta. 229+60.41, 140.74' left. Elevation 638.647.

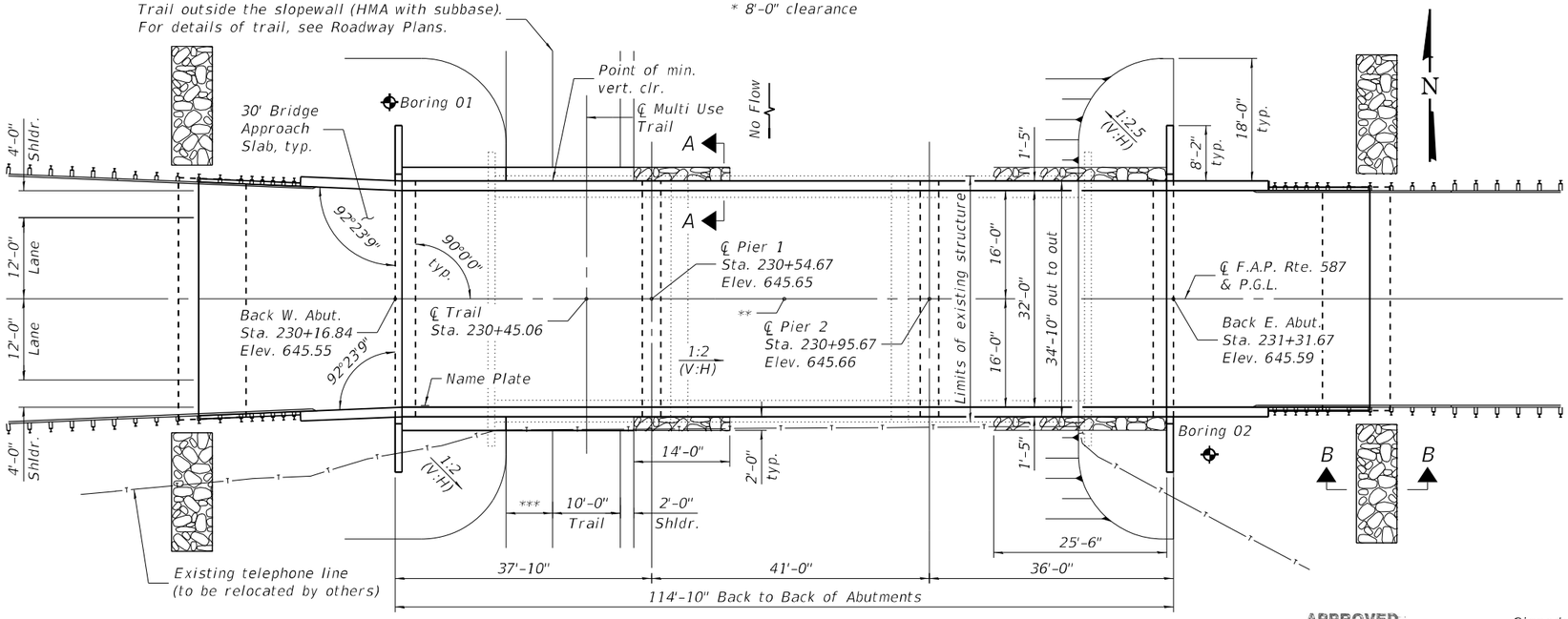
Existing Structure: S.N. 006-0096 originally built in 1958 as Section 135B-1. The structure is a 3-span variable depth solid slab bridge on stub abutments and piers founded on concrete piles. The length of the structure is 89'-6" bk. to bk. abutments. The width is 36'-4" out to out. Traffic to be detoured with the bridge closed during construction.

Salvage: None



ELEVATION

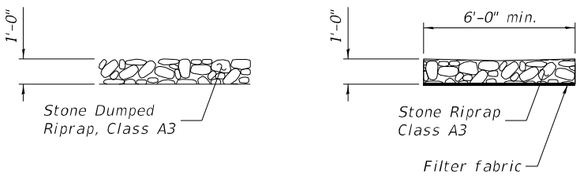
* 8'-0" clearance



PLAN

** ℄ Structure Sta. 230+74.26

*** Shoulder width varies from 2'-0" along trail to 6'-10" under bridge



SECTION A-A

SECTION B-B

DESIGN SCOUR ELEVATION TABLE

Event / Limit State	Design Scour Elevations (ft.) W. Abut.	Pier 1	Pier 2	E. Abut.	Item 113
Q100	639.60	625.10	625.10	639.63	8
Q200	639.60	625.10	625.10	639.63	
Design	639.60	625.10	625.10	639.63	
Check	639.60	625.10	625.10	639.63	

WATERWAY INFORMATION

Drainage Area = 0.32 sq. mi. Exist. Overtopping Elev. 639.8 @ Sta. 230+75
Prop. Overtopping Elev. 647.8 @ Sta. 230+75

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.
	--	--	--	--	--	--	--	--	--
Design	N/A	N/A	348	279	634.6	--	--	634.6	634.6
Base	--	--	--	--	--	--	--	--	--
Scour Check	--	--	--	--	--	--	--	--	--
Max. Calc.	--	--	--	--	--	--	--	--	--

Est. 100' wide canal, 17 miles long to US Lock 33
Maximum HWE based on Locks 33 (US) and 22 (DS)

LOADING HL-93

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

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

DESIGN STRESSES

FIELD UNITS

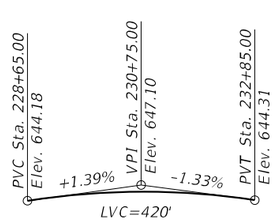
f'c = 3,500 psi
f'c = 4,000 psi (Superstructure Concrete)
fy = 60,000 psi (Reinforcement)

PRECAST PRESTRESSED UNITS

f'c = 5,000 psi
f'ci = 4,000 psi
f's = 270,000 psi (41,300 lbs.-½" Ø)
fsi = 189,000 psi (28,900 lbs.-½" Ø)

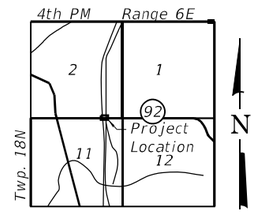
SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.09g
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.145g
Soil Site Class = D



PROFILE GRADE

Along ℄ Roadway



LOCATION SKETCH

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

APPROVED
For Structural Adequacy Only
Engineer of Bridges & Structures

Signed: Alex C. Benz
Date: 7/29/2021
License Expires: 11/30/2022

GENERAL PLAN & ELEVATION
ILLINOIS ROUTE 92 OVER
HENNEPIN CANAL FEEDER
F.A.P. RTE. 587 - SEC. (135B-1)BRR
BUREAU COUNTY
STATION 230+74.26
STRUCTURE NO. 006-0189

EFK•Moen
Civil Engineering Design

USER NAME = ABenz	DESIGNED - ACB	REVISED -	
	CHECKED - CDL	REVISED -	
PLOT SCALE =	DRAWN - ACB	REVISED -	
PLOT DATE = 8/4/2021	CHECKED - CDL	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
STRUCTURE NO. 006-0189
SHEET 1 OF 21 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(135B-1)BRR	BUREAU	84	38
		CONTRACT NO. 66H26		
		ILLINOIS	FED. AID PROJECT	

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GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.

The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework, in addition to allowance for dead load deflection. Forms for deck slab shall be removed prior to placement of bridge approach slab.

INDEX OF SHEETS

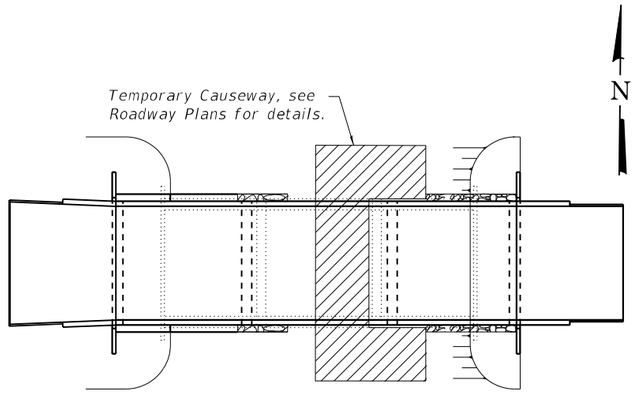
STATION 230+74.26
BUILT 20 BY
STATE OF ILLINOIS
F.A.P. RTE. 587
SEC. (135B-1)BRR
LOADING HL-93
STRUCTURE NO. 006-0189

NAME PLATE

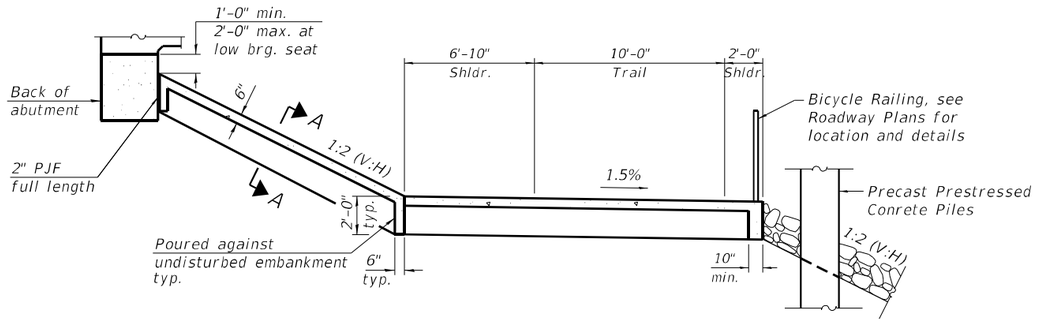
See Std. 515001

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A3	Sq Yd		52	52
Stone Dumped Riprap, Class A3	Sq Yd		187	187
Filter Fabric	Sq Yd		52	52
Removal Of Existing Structures	Each	1		1
Structure Excavation	Cu Yd		93	93
Concrete Structures	Cu Yd		77.3	77.3
Concrete Superstructure	Cu Yd	300.3		300.3
Bridge Deck Grooving	Sq Yd	580		580
Protective Coat	Sq Yd	754		754
Concrete Superstructure (Approach Slab)	Cu Yd	96.3		96.3
Reinforcement Bars, Epoxy Coated	Pound	109,500	12,500	122,000
Slope Wall 6 Inch	Sq Yd		147	147
Furnishing Precast Prestressed Concrete Piles 14"	Foot		560	560
Furnishing Metal Shell Piles 14" X 0.312"	Foot		290	290
Driving Piles	Foot		850	850
Test Piles Precast Prestressed Concrete	Each		2	2
Test Pile Metal Shells	Each		2	2
Pile Shoes	Each		12	12
Name Plates	Each	1		1
Granular Backfill For Structures	Cu Yd		71	71
Geocomposite Wall Drain	Sq Yd		49	49
Pipe Underdrains For Structures 4"	Foot		124	124

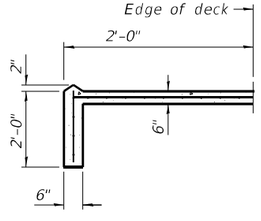


TEMPORARY CAUSEWAY

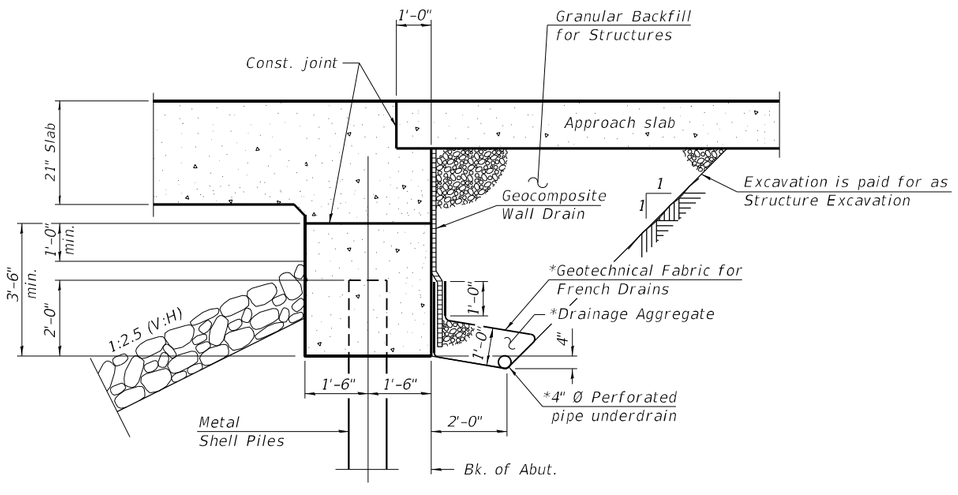


SECTION THRU CONCRETE SLOPEWALL

Slopewall shall be reinforced with welded wire fabric, 6" x 6" - W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft.



SECTION A-A



SECTION THRU INTEGRAL ABUTMENT

*Included in the cost of Pipe Underdrains for Structures. (See Special Provisions)

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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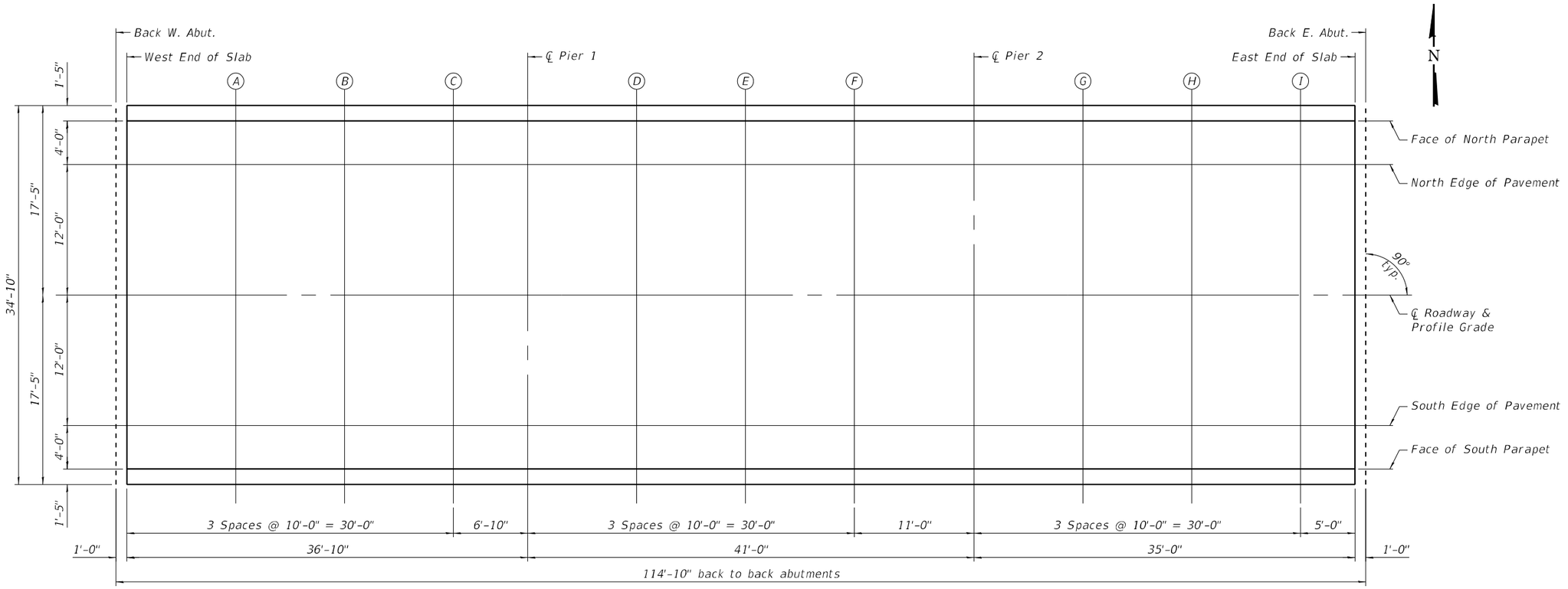
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NO. 006-0189
SHEET 2 OF 21 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(135B-1)BRR	BUREAU	84	39
		CONTRACT NO. 66H26		
	ILLINOIS	FED. AID PROJECT		



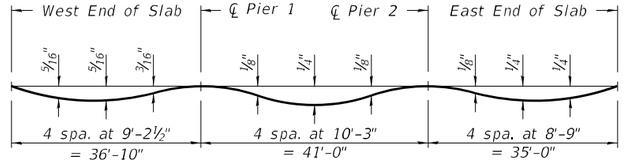
PLAN

Face of North Parapet

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back W. Abut.	230+16.84	-16.00	645.29	645.29
West End of Slab	230+17.84	-16.00	645.29	645.29
A	230+27.84	-16.00	645.33	645.35
B	230+37.84	-16.00	645.36	645.38
C	230+47.84	-16.00	645.38	645.39
℄ Pier 1	230+54.67	-16.00	645.39	645.39
D	230+64.67	-16.00	645.41	645.42
E	230+74.67	-16.00	645.41	645.43
F	230+84.67	-16.00	645.41	645.43
℄ Pier 2	230+95.67	-16.00	645.40	645.40
G	231+05.67	-16.00	645.39	645.40
H	231+15.67	-16.00	645.37	645.39
I	231+25.67	-16.00	645.34	645.36
East End of Slab	231+30.67	-16.00	645.33	645.33
Back E. Abut.	231+31.67	-16.00	645.33	645.33

North Edge of Pavement

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back W. Abut.	230+16.84	-12.00	645.37	645.37
West End of Slab	230+17.84	-12.00	645.37	645.37
A	230+27.84	-12.00	645.41	645.43
B	230+37.84	-12.00	645.44	645.46
C	230+47.84	-12.00	645.46	645.47
℄ Pier 1	230+54.67	-12.00	645.47	645.47
D	230+64.67	-12.00	645.49	645.50
E	230+74.67	-12.00	645.49	645.51
F	230+84.67	-12.00	645.49	645.51
℄ Pier 2	230+95.67	-12.00	645.48	645.48
G	231+05.67	-12.00	645.47	645.48
H	231+15.67	-12.00	645.45	645.47
I	231+25.67	-12.00	645.42	645.44
East End of Slab	231+30.67	-12.00	645.41	645.41
Back E. Abut.	231+31.67	-12.00	645.41	645.41



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 sheets 3 and 4 of 21.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 006-0189
SHEET 3 OF 21 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(135B-1)BRR	BUREAU	84	40
		CONTRACT NO. 66H26		
	ILLINOIS	FED. AID PROJECT		

℄ Roadway & Profile Grade

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back W. Abut.	230+16.84	0.00	645.55	645.55
West End of Slab	230+17.84	0.00	645.55	645.55
A	230+27.84	0.00	645.59	645.61
B	230+37.84	0.00	645.62	645.64
C	230+47.84	0.00	645.64	645.65
℄ Pier 1	230+54.67	0.00	645.65	645.65
D	230+64.67	0.00	645.67	645.68
E	230+74.67	0.00	645.67	645.69
F	230+84.67	0.00	645.67	645.69
℄ Pier 2	230+95.67	0.00	645.66	645.66
G	231+05.67	0.00	645.65	645.66
H	231+15.67	0.00	645.63	645.65
I	231+25.67	0.00	645.60	645.62
East End of Slab	231+30.67	0.00	645.59	645.59
Back E. Abut.	231+31.67	0.00	645.59	645.59

South Edge of Pavement

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back W. Abut.	230+16.84	12.00	645.37	645.37
West End of Slab	230+17.84	12.00	645.37	645.37
A	230+27.84	12.00	645.41	645.43
B	230+37.84	12.00	645.44	645.46
C	230+47.84	12.00	645.46	645.47
℄ Pier 1	230+54.67	12.00	645.47	645.47
D	230+64.67	12.00	645.49	645.50
E	230+74.67	12.00	645.49	645.51
F	230+84.67	12.00	645.49	645.51
℄ Pier 2	230+95.67	12.00	645.48	645.48
G	231+05.67	12.00	645.47	645.48
H	231+15.67	12.00	645.45	645.47
I	231+25.67	12.00	645.42	645.44
East End of Slab	231+30.67	12.00	645.41	645.41
Back E. Abut.	231+31.67	12.00	645.41	645.41

Face of South Parapet

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back W. Abut.	230+16.84	16.00	645.29	645.29
West End of Slab	230+17.84	16.00	645.29	645.29
A	230+27.84	16.00	645.33	645.35
B	230+37.84	16.00	645.36	645.38
C	230+47.84	16.00	645.38	645.39
℄ Pier 1	230+54.67	16.00	645.39	645.39
D	230+64.67	16.00	645.41	645.42
E	230+74.67	16.00	645.41	645.43
F	230+84.67	16.00	645.41	645.43
℄ Pier 2	230+95.67	16.00	645.40	645.40
G	231+05.67	16.00	645.39	645.40
H	231+15.67	16.00	645.37	645.39
I	231+25.67	16.00	645.34	645.36
East End of Slab	231+30.67	16.00	645.33	645.33
Back E. Abut.	231+31.67	16.00	645.33	645.33

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 006-0189

SHEET 4 OF 21 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(135B-1)BRR	BUREAU	84	41
		CONTRACT NO. 66H26		
	ILLINOIS	FED. AID PROJECT		

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NORTH EDGE OF SHOULDER

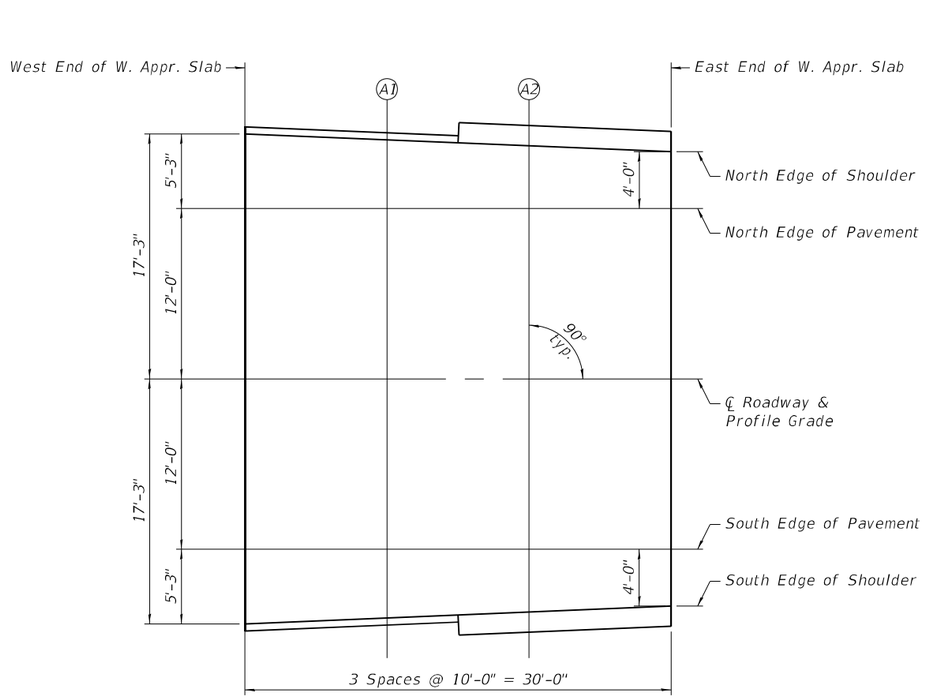
Location	Station	Offset	Theoretical Grade Elevations
West End of W. Appr. Slab	229+87.84	-17.25	645.11
A1	229+97.84	-16.83	645.18
A2	230+07.84	-16.42	645.24
East End of W. Appr. Slab	230+17.84	-16.00	645.29

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
West End of W. Appr. Slab	229+87.84	-12.00	645.22
A1	229+97.84	-12.00	645.28
A2	230+07.84	-12.00	645.33
East End of W. Appr. Slab	230+17.84	-12.00	645.37

℄ ROADWAY & PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations
West End of W. Appr. Slab	229+87.84	0.00	645.40
A1	229+97.84	0.00	645.46
A2	230+07.84	0.00	645.51
East End of W. Appr. Slab	230+17.84	0.00	645.55



PLAN

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
West End of W. Appr. Slab	229+87.84	12.00	645.22
A1	229+97.84	12.00	645.28
A2	230+07.84	12.00	645.33
East End of W. Appr. Slab	230+17.84	12.00	645.37

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
West End of W. Appr. Slab	229+87.84	17.25	645.11
A1	229+97.84	16.83	645.18
A2	230+07.84	16.42	645.24
East End of W. Appr. Slab	230+17.84	16.00	645.29

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF WEST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 006-0189

SHEET 5 OF 21 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(135B-1)BRR	BUREAU	84	42
		CONTRACT NO. 66H26		
	ILLINOIS FED. AID PROJECT			

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NORTH EDGE OF SHOULDER

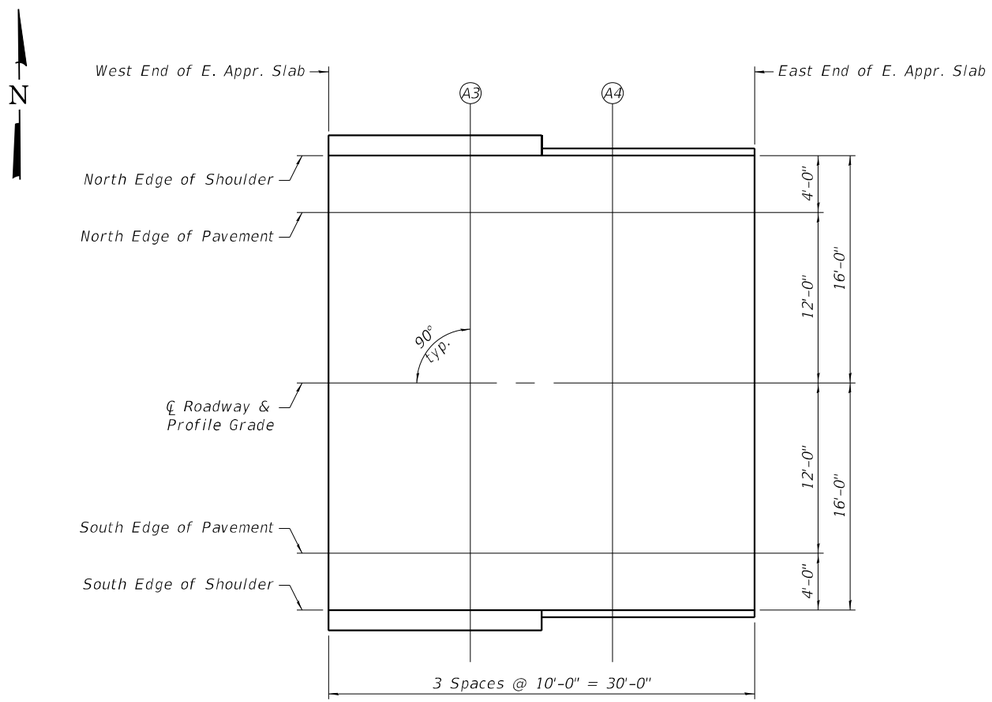
Location	Station	Offset	Theoretical Grade Elevations
West End of E. Appr. Slab	231+30.67	-16.00	645.33
A3	231+40.67	-16.00	645.29
A4	231+50.67	-16.00	645.25
East End of E. Appr. Slab	231+60.67	-16.00	645.20

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
West End of E. Appr. Slab	231+30.67	-12.00	645.41
A3	231+40.67	-12.00	645.37
A4	231+50.67	-12.00	645.33
East End of E. Appr. Slab	231+60.67	-12.00	645.28

℄ ROADWAY & PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations
West End of E. Appr. Slab	231+30.67	0.00	645.59
A3	231+40.67	0.00	645.55
A4	231+50.67	0.00	645.51
East End of E. Appr. Slab	231+60.67	0.00	645.46



PLAN

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
West End of E. Appr. Slab	231+30.67	12.00	645.41
A3	231+40.67	12.00	645.37
A4	231+50.67	12.00	645.33
East End of E. Appr. Slab	231+60.67	12.00	645.28

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
West End of E. Appr. Slab	231+30.67	16.00	645.33
A3	231+40.67	16.00	645.29
A4	231+50.67	16.00	645.25
East End of E. Appr. Slab	231+60.67	16.00	645.20

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF EAST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 006-0189

SHEET 6 OF 21 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(135B-1)BRR	BUREAU	84	43
		CONTRACT NO. 66H26		
	ILLINOIS FED. AID PROJECT			

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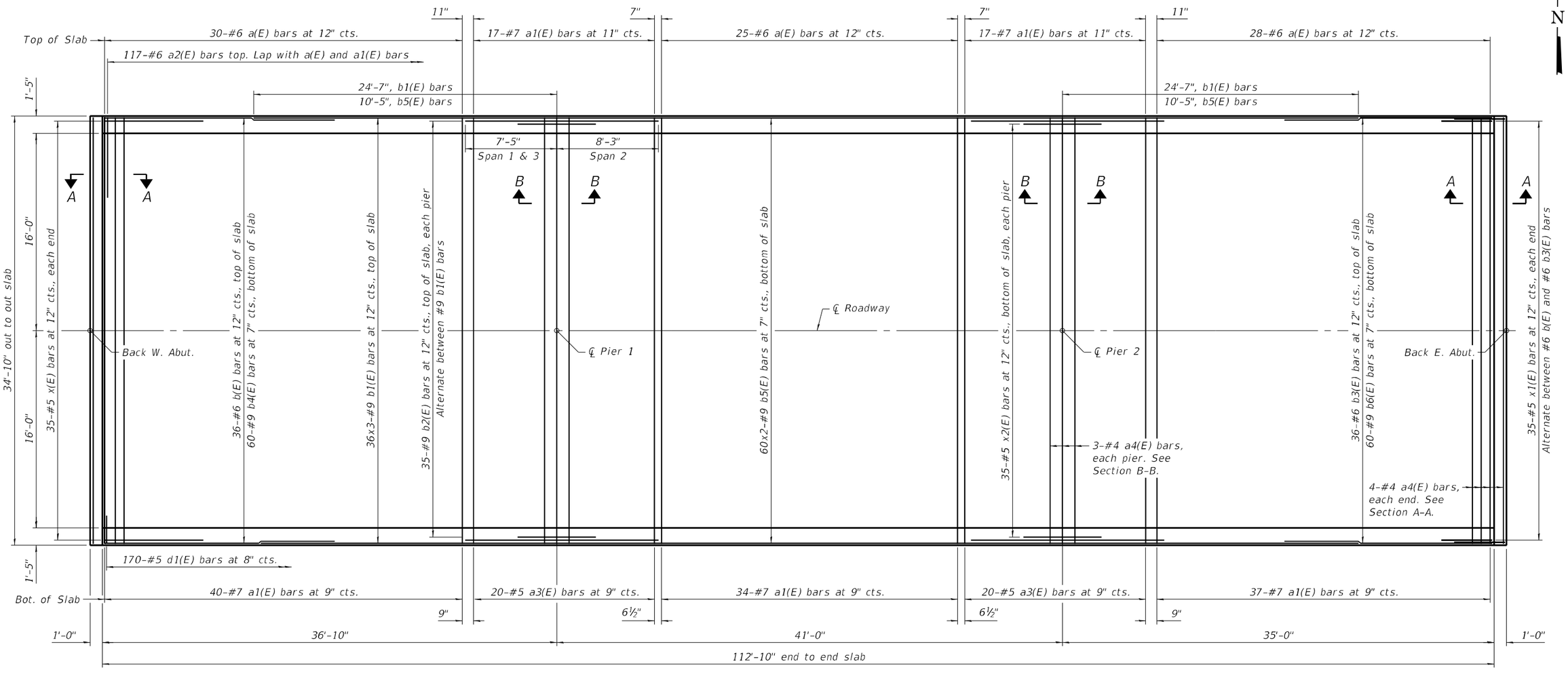

SLAB PLAN

MINIMUM BAR LAP

#9 bar = 6'-7" (Top of Slab)
#9 bar = 7'-3" (Bottom of Slab)

Notes:

See sheet 9 of 21 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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Civil Engineering Design

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PLOT DATE = 7/30/2021	CHECKED - CDL	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE NO. 006-0189
SHEET 7 OF 21 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(135B-1)BRR	BUREAU	84	44
		CONTRACT NO. 66H26		
		ILLINOIS	FED. AID PROJECT	

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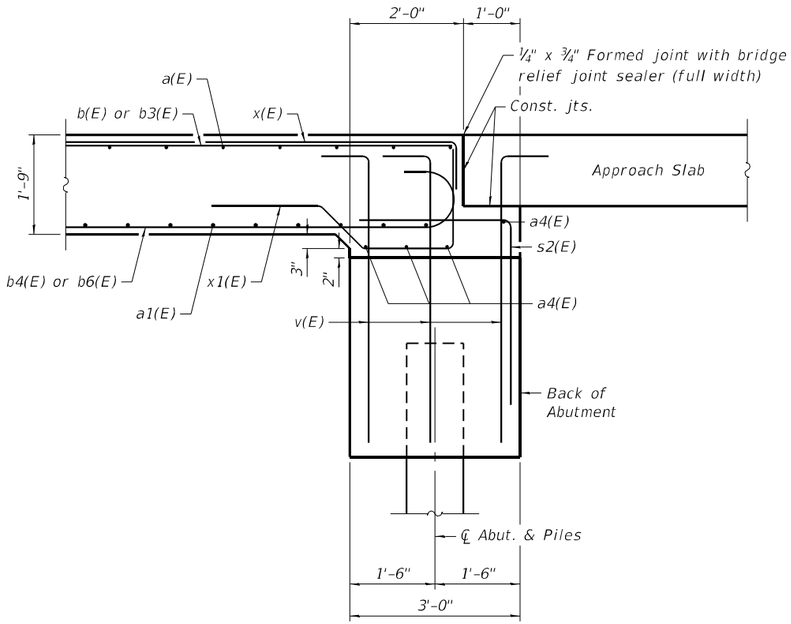
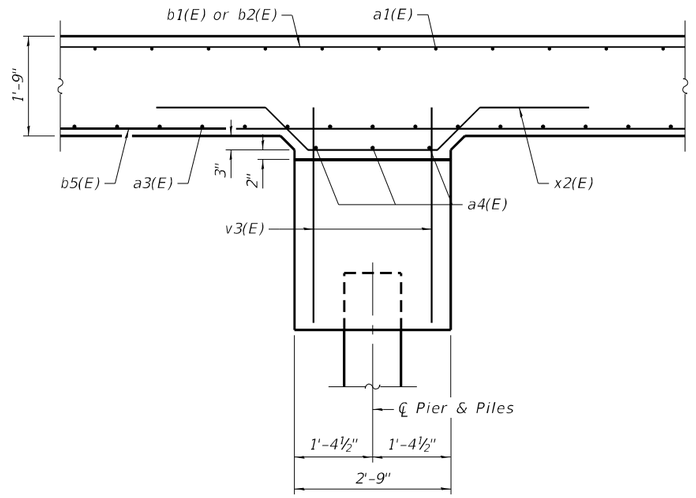
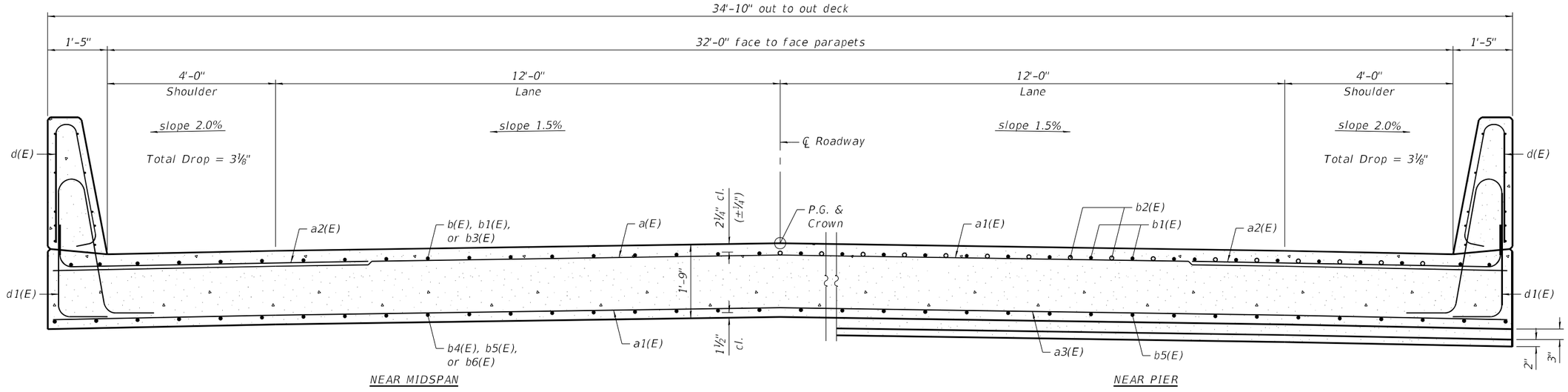


SECTION A-A



SECTION B-B



CROSS SECTION
(Looking East)

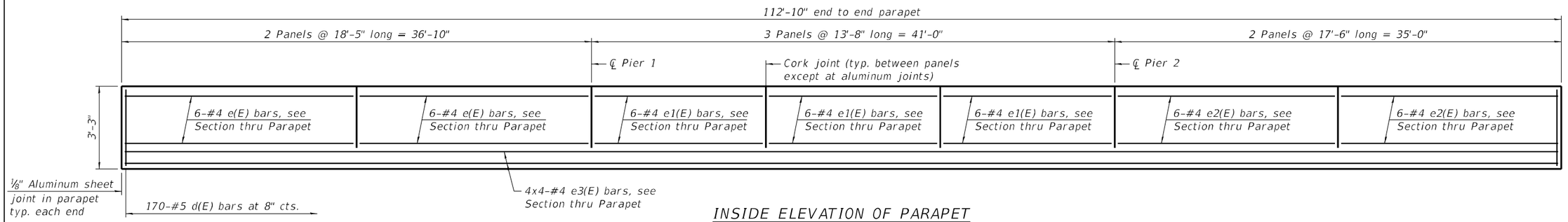
EFK•Moen
Civil Engineering Design

USER NAME = ABenz	DESIGNED - ACB	REVISED -
	CHECKED - CDL	REVISED -
PLOT SCALE =	DRAWN - ACB	REVISED -
PLOT DATE = 7/30/2021	CHECKED - CDL	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

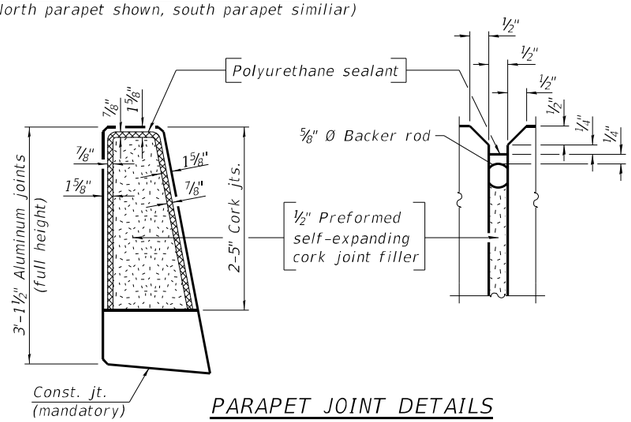
SUPERSTRUCTURE
STRUCTURE NO. 006-0189
SHEET 8 OF 21 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(135B-1)BRR	BUREAU	84	45
		CONTRACT NO. 66H26		
	ILLINOIS	FED. AID PROJECT		

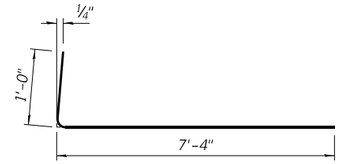


INSIDE ELEVATION OF PARAPET

(North parapet shown, south parapet similiar)



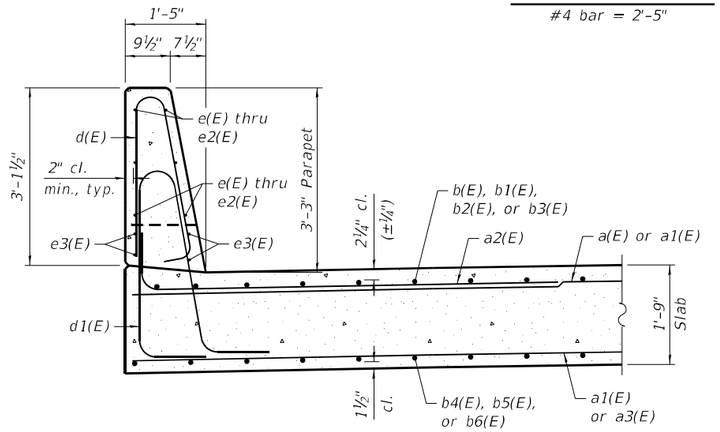
PARAPET JOINT DETAILS



BAR a2(E)

MINIMUM BAR LAP

#4 bar = 2'-5"



SECTION THRU PARAPET

Notes:

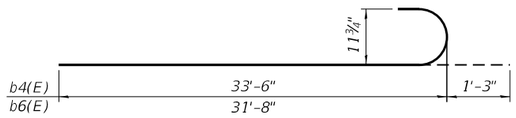
The ⅛" aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.

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

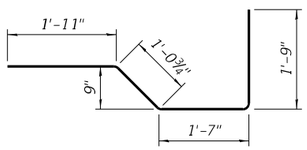
SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	83	#6	34'-6"	
a1(E)	145	#7	34'-6"	
a2(E)	234	#6	8'-4"	
a3(E)	40	#5	34'-6"	
a4(E)	14	#4	34'-6"	
b(E)	36	#6	18'-8"	
b1(E)	108	#9	34'-6"	
b2(E)	35	#9	15'-8"	
b3(E)	36	#6	16'-10"	
b4(E)	60	#9	34'-9"	
b5(E)	120	#9	34'-7"	
b6(E)	60	#9	32'-11"	
d(E)	340	#5	6'-5"	
d1(E)	340	#5	9'-6"	
e(E)	12	#4	18'-2"	
e1(E)	18	#4	13'-5"	
e2(E)	12	#4	17'-3"	
e3(E)	16	#4	30'-0"	
x(E)	70	#5	8'-10"	
x1(E)	70	#5	6'-4"	
x2(E)	70	#5	8'-3"	
Reinforcement Bars, Epoxy Coated		Lbs.	71,700	
Concrete Superstructure		Cu. Yds.	292.5	

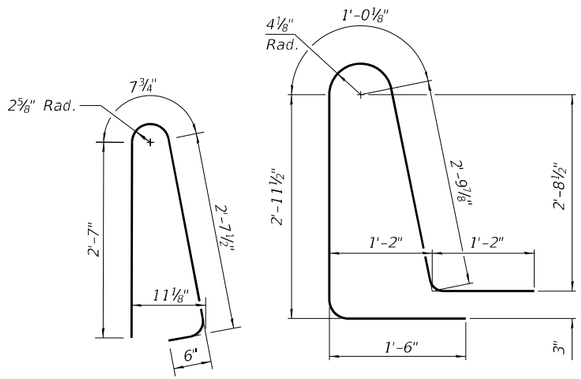
Bars indicated thus 1 x 2-#4 etc. indicates 1 line of bars with 2 lengths per line.



BAR b4(E) or b6(E)

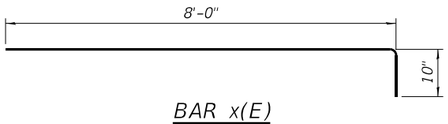


BAR x1(E)

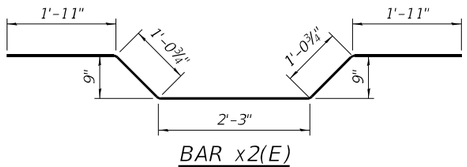


BAR d(E)

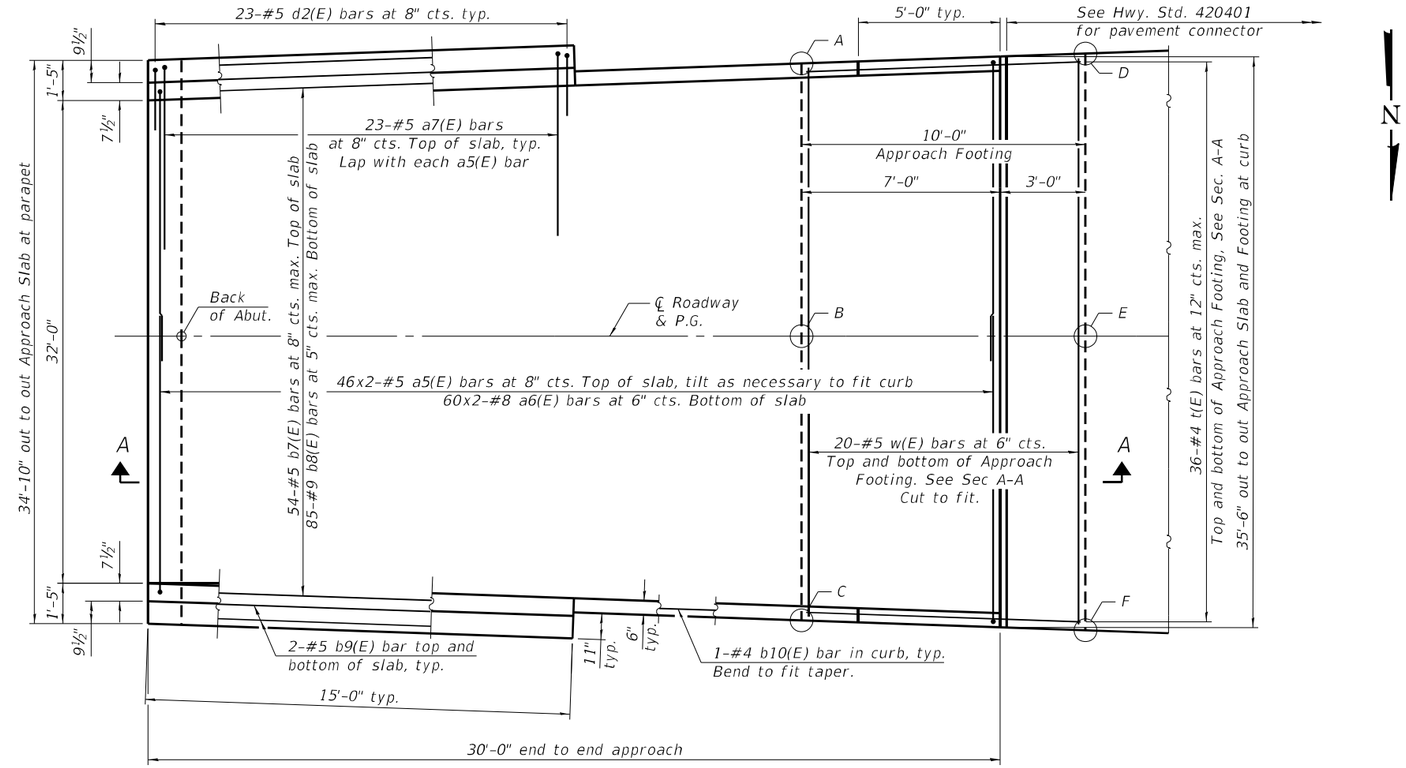
BAR d1(E)



BAR x(E)



BAR x2(E)



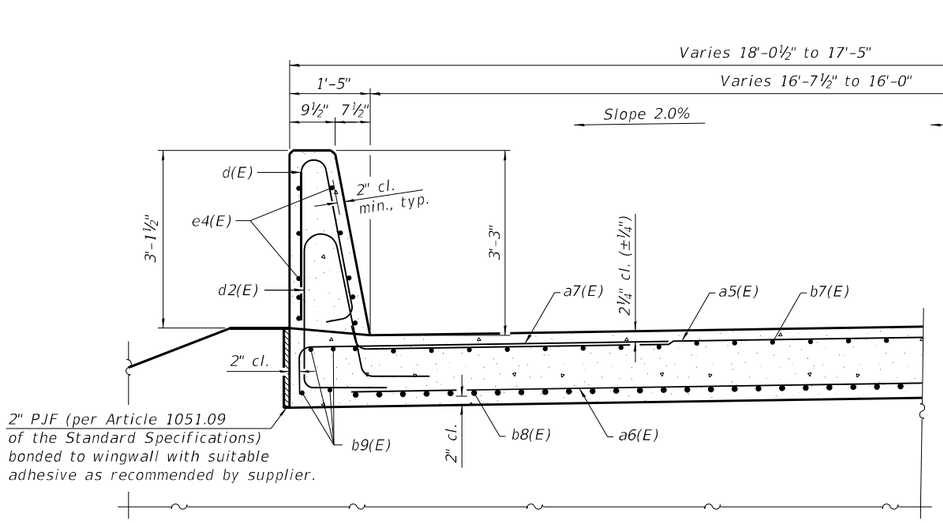
PLAN

TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

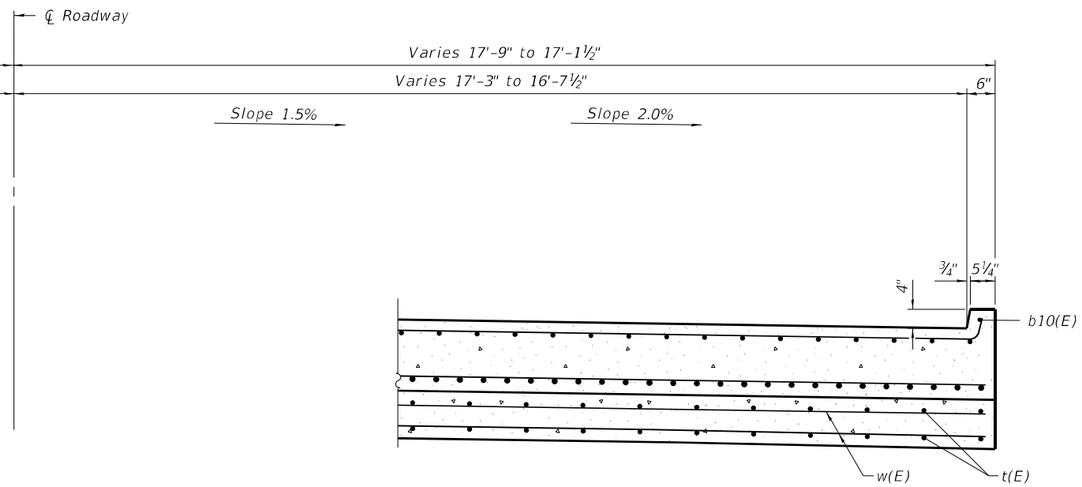
	West Approach	
Point	Top	Bottom
A	643.90	643.07
B	644.19	643.36
C	643.90	643.07
D	643.83	643.00
E	644.13	643.30
F	643.83	643.00

MINIMUM BAR LAP

#5 bar = 3'-4"
#8 bar = 4'-9"



NEAR ABUTMENT



AT APPROACH FOOTING

CROSS SECTION
(Looking East)

BAIA-CIP-39CS-0 6-15-2019

(Sheet 1 of 2)

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Civil Engineering Design

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	CHECKED - CDL	REVISED -	
PLOT SCALE =	DRAWN - ACB	REVISED -	
PLOT DATE = 8/23/2021	CHECKED - CDL	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 006-0189
SHEET 10 OF 21 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(135B-1)BRR	BUREAU	84	47
		CONTRACT NO. 66H26		
	ILLINOIS	FED. AID PROJECT		

MODEL: Default
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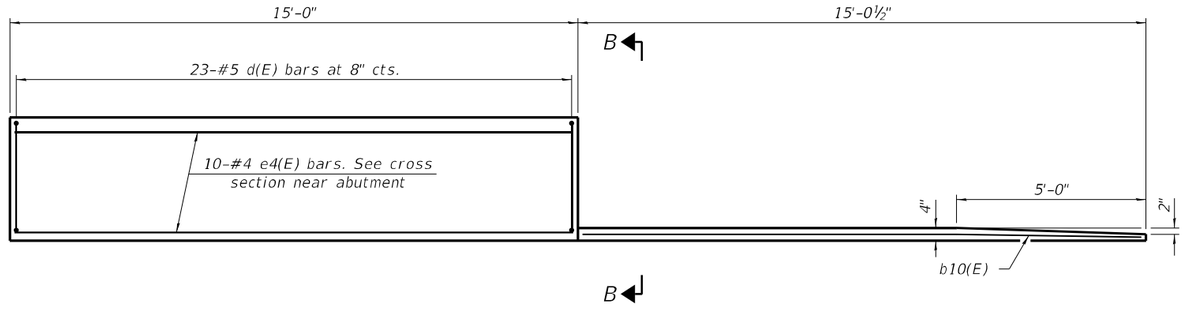
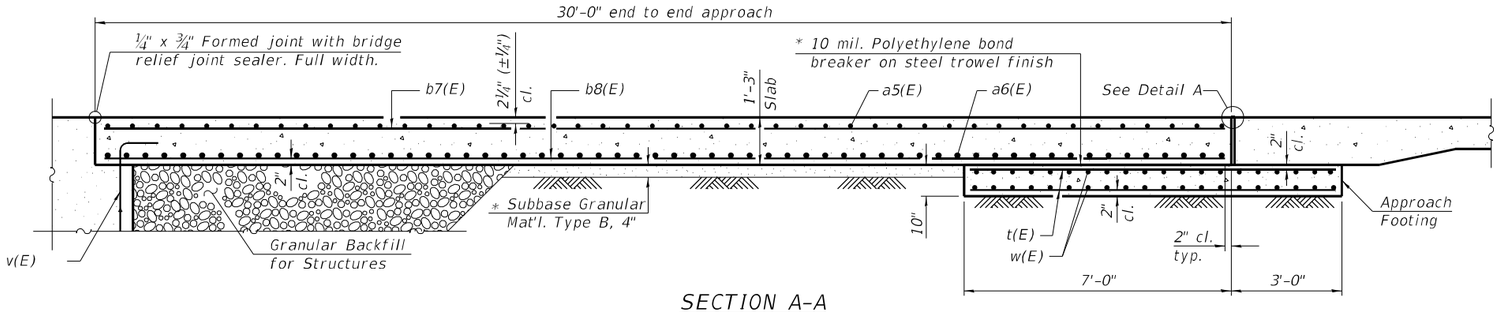
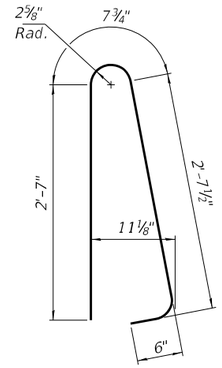


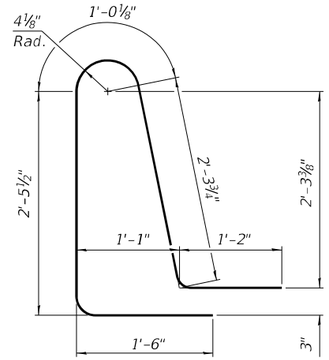
INSIDE ELEVATION OF PARAPET AND CURB



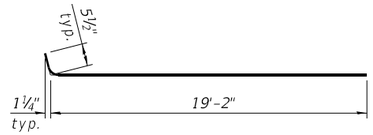
SECTION A-A



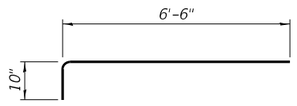
BAR d(E)



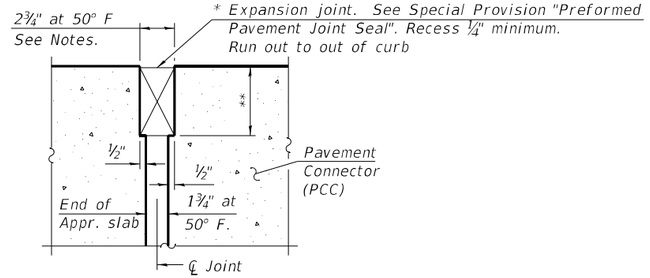
BAR d2(E)



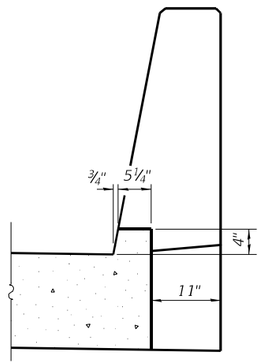
BAR a5(E)



BAR a7(E)



DETAIL A



VIEW B-B

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 21.

* Cost included with Concrete Superstructure (Approach Slab).

** Per manufacturer recommendations

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a5(E)	92	#5	19'-8"	
a6(E)	120	#8	20'-0"	
a7(E)	46	#5	7'-4"	
b7(E)	54	#5	29'-8"	
b8(E)	85	#9	29'-8"	
b9(E)	8	#5	14'-8"	
b10(E)	2	#4	14'-8"	
d(E)	46	#5	6'-5"	
d2(E)	46	#5	8'-6"	
e4(E)	20	#4	14'-8"	
t(E)	72	#4	9'-8"	
w(E)	40	#5	35'-2"	
Concrete Superstructure			Cu. Yd.	3.9
Concrete Superstructure (Approach Slab)			Cu. Yd.	49.0
Concrete Structures			Cu. Yd.	10.9
Reinforcement Bars, Epoxy Coated			Pound	21,880

BAIA-CIP-39CS-0 6-15-2019

MODEL: Default
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EFK•Moen Civil Engineering Design

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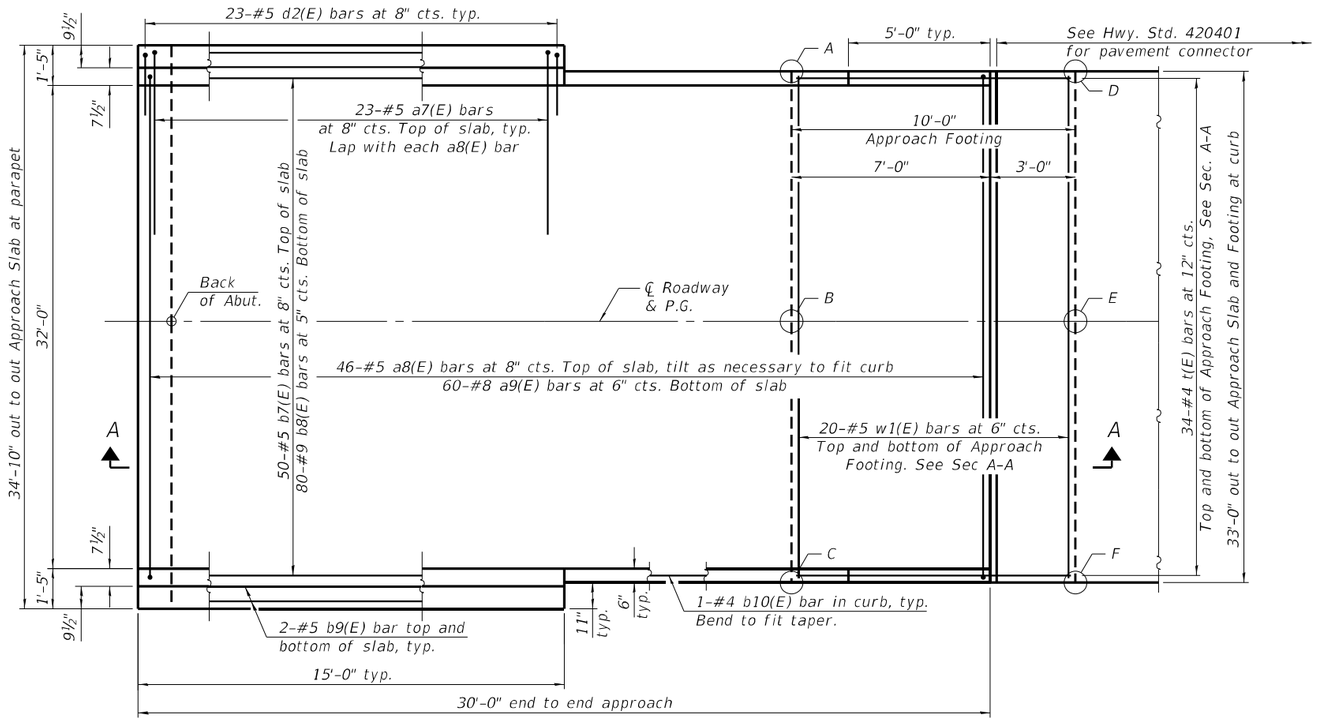
	CHECKED - CDL	REVISED -	
PLOT SCALE =	DRAWN - ACB	REVISED -	
PLOT DATE = 7/30/2021	CHECKED - CDL	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 006-0189
SHEET 11 OF 21 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(135B-1)BRR	BUREAU	84	48
		CONTRACT NO. 66H26		
	ILLINOIS	FED. AID PROJECT		

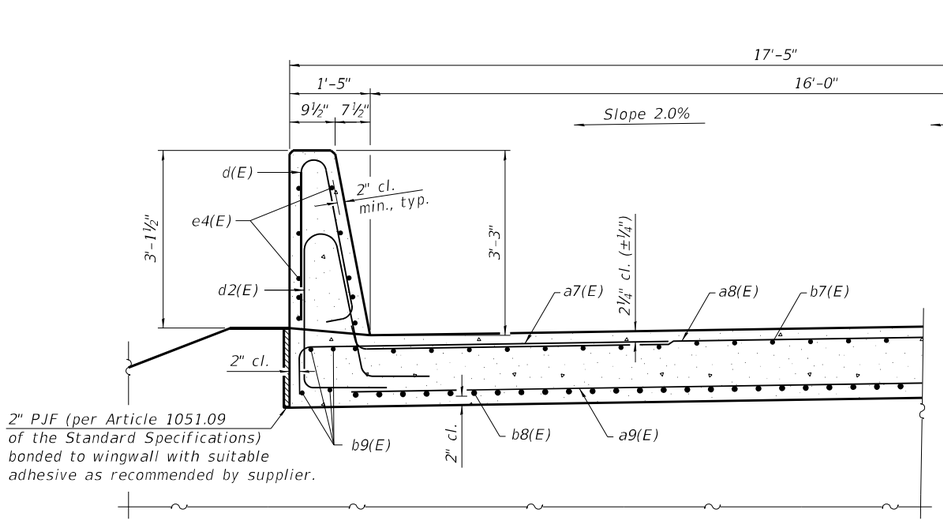


PLAN

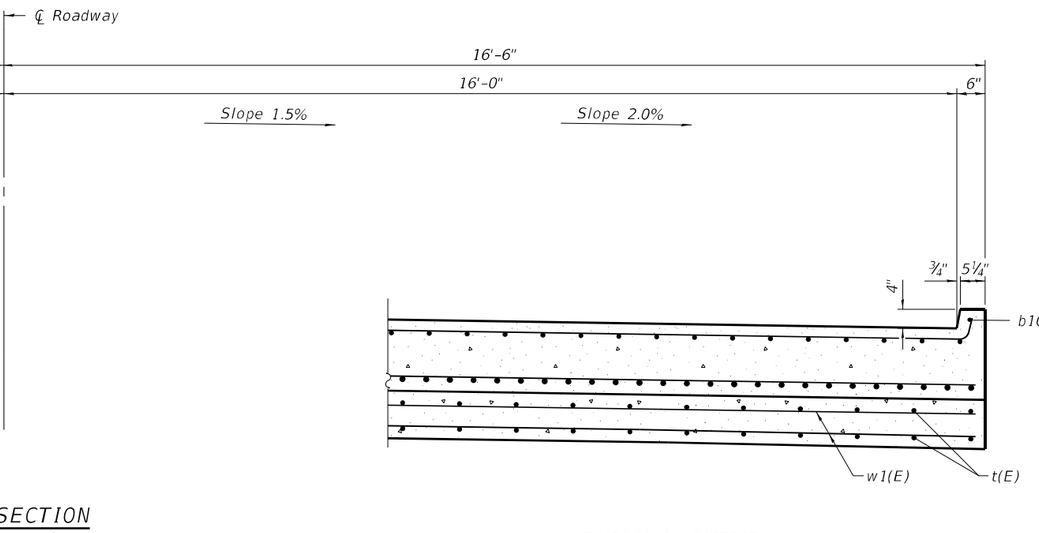
N

TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

	East Approach	
Point	Top	Bottom
A	643.99	643.15
B	644.25	643.41
C	643.99	643.15
D	643.93	643.10
E	644.19	643.36
F	643.93	643.10



NEAR ABUTMENT



CROSS SECTION
(Looking East)

AT APPROACH FOOTING

BAIA-CIP-39CS-0 6-15-2019

MODEL: Default
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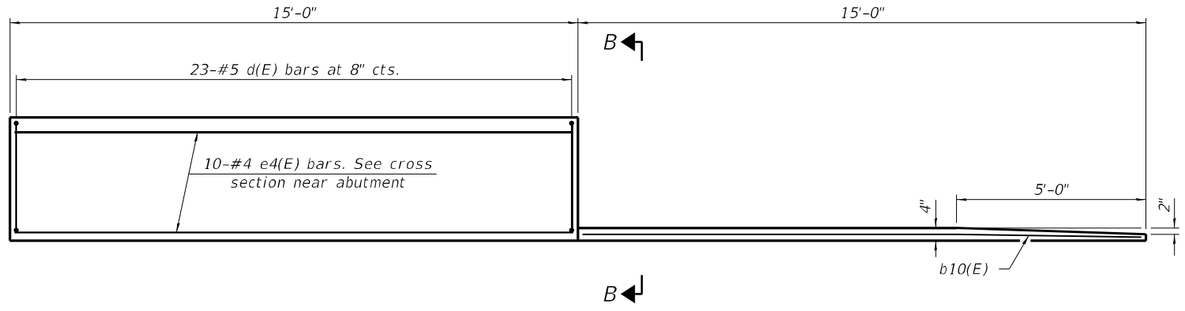
Civil Engineering Design

USER NAME = ABenz	DESIGNED - ACB	REVISED -
	CHECKED - CDL	REVISED -
PLOT SCALE =	DRAWN - ACB	REVISED -
PLOT DATE = 7/30/2021	CHECKED - CDL	REVISED -

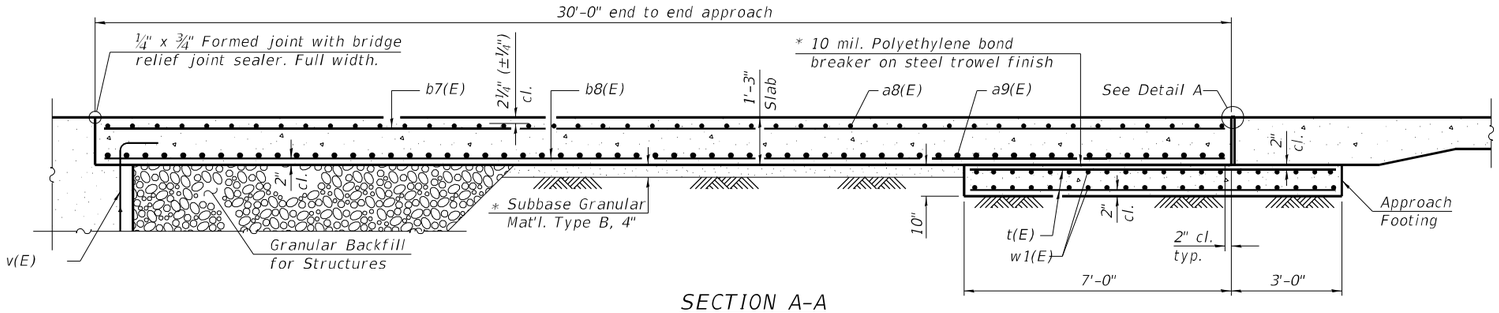
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 006-0189
SHEET 12 OF 21 SHEETS

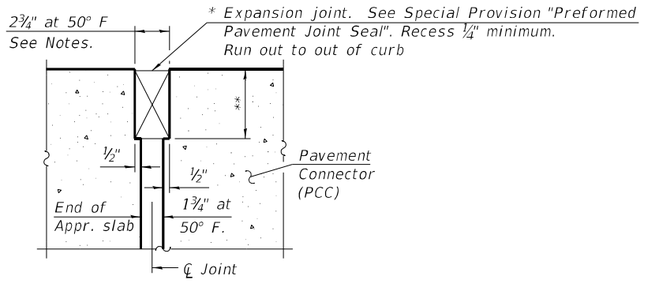
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(135B-1)BRR	BUREAU	84	49
		CONTRACT NO. 66H26		
	ILLINOIS	FED. AID PROJECT		



INSIDE ELEVATION OF PARAPET AND CURB



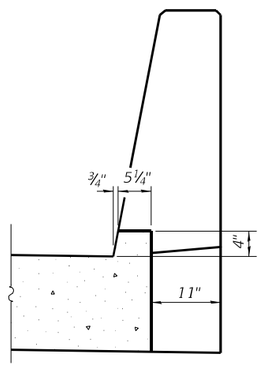
SECTION A-A



DETAIL A

* Cost included with Concrete Superstructure (Approach Slab).

** Per manufacturer recommendations



VIEW B-B

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.

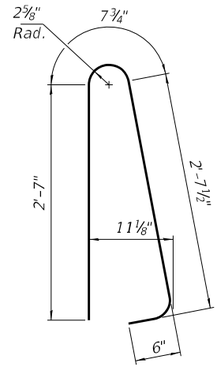
Approach slab shall be paid for as Concrete Superstructure (Approach Slab).

Approach footing concrete shall be paid for as Concrete Structures.

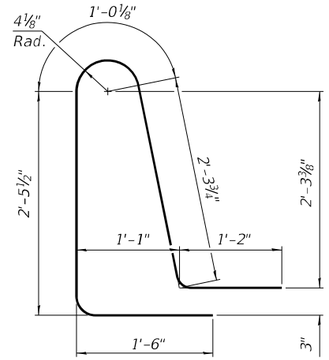
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.

Cost of excavation for approach footing included with Concrete Structures.

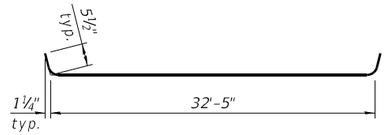
For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 21.



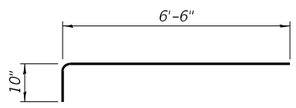
BAR d(E)



BAR d2(E)



BAR a8(E)



BAR a7(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a7(E)	46	#5	7'-4"	
a8(E)	46	#5	33'-4"	
a9(E)	60	#8	32'-8"	
b7(E)	50	#5	29'-8"	
b8(E)	80	#9	29'-8"	
b9(E)	8	#5	14'-8"	
b10(E)	2	#4	14'-8"	
d(E)	46	#5	6'-5"	
d2(E)	46	#5	8'-6"	
e4(E)	20	#4	14'-8"	
t(E)	68	#4	9'-8"	
w1(E)	40	#5	32'-8"	
Concrete Superstructure			Cu. Yd.	3.9
Concrete Superstructure (Approach Slab)			Cu. Yd.	47.3
Concrete Structures			Cu. Yd.	10.2
Reinforcement Bars, Epoxy Coated			Pound	19,660

BAIA-CIP-39CS-0 6-15-2019

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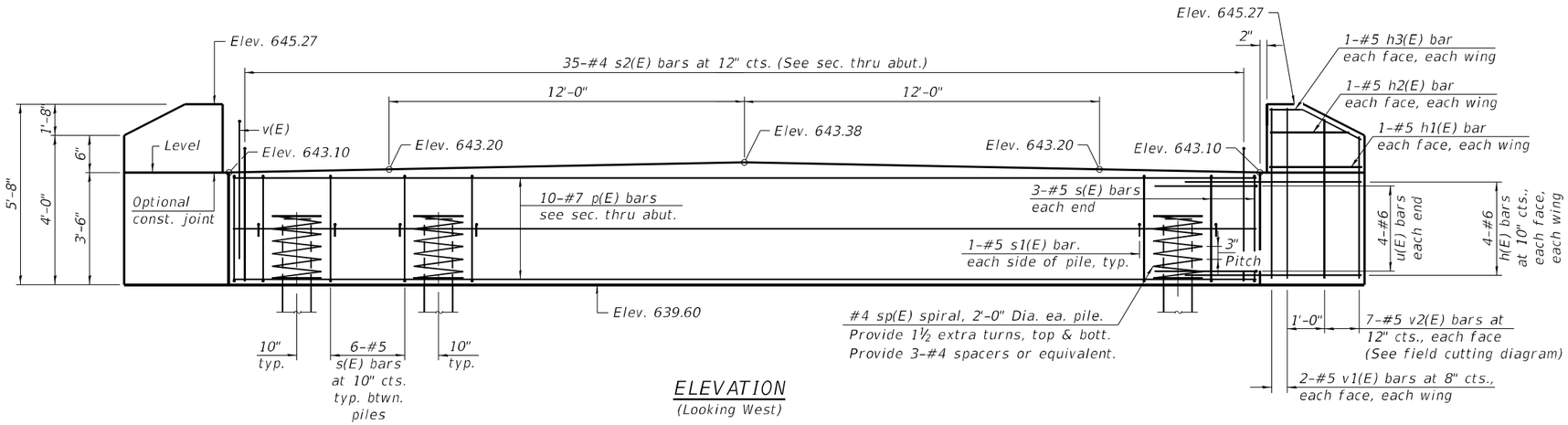
PLOT SCALE =	DRAWN - ACB	REVISED -	
PLOT DATE = 7/30/2021	CHECKED - CDL	REVISED -	

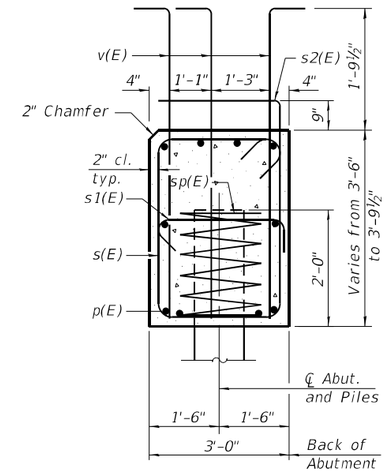
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 006-0189
SHEET 13 OF 21 SHEETS

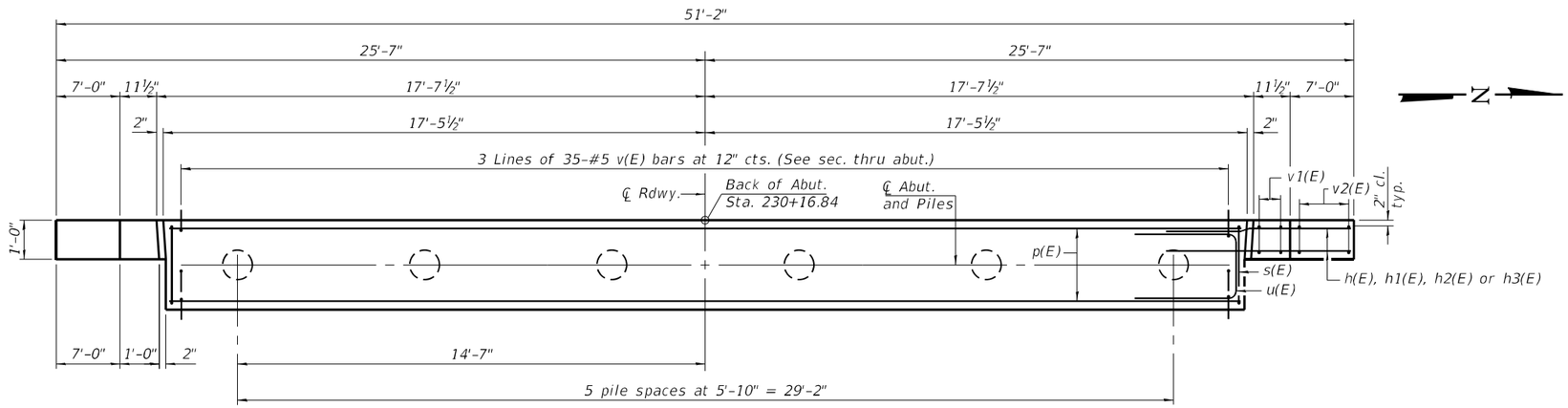
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(135B-1)BRR	BUREAU	84	50
		CONTRACT NO. 66H26		
	ILLINOIS	FED. AID PROJECT		



ELEVATION
(Looking West)



SEC. THRU ABUT.



PLAN

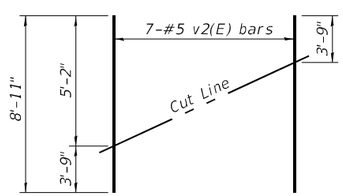
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	16	#6	12'-4"	
h1(E)	4	#5	7'-9"	
h2(E)	4	#5	4'-10"	
h3(E)	4	#5	7'-11"	
p(E)	10	#7	34'-6"	
s(E)	36	#5	12'-7"	
s1(E)	12	#5	3'-8"	
s2(E)	35	#4	6'-9"	
* sp(E)	6	#4	2'-0"	
u(E)	8	#6	11'-2"	
v(E)	105	#5	6'-0"	
v1(E)	8	#5	5'-5"	
v2(E)	14	#5	8'-11"	
Structure Excavation			Cu. Yd.	56
Concrete Structures			Cu. Yd.	16.9
Reinforcement Bars, Epoxy Coated			Pound	3,000
Furnishing Metal Shell Piles 14" x 0.312"			Foot	140
Driving Piles			Foot	140
Test Pile Metal Shells			Each	1
Pile Shoes			Each	6

For details of piles see sheet 17 of 21.
* Length is height of spiral.

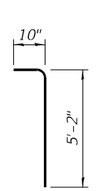
PILE DATA

Type: Metal Shell Piles 14" x 0.312" with Pile Shoes
Nominal Required Bearing: 271k
Factored Resistance Available: 149k
Est. Length: 28'
No. Production Piles: 5
No. Test Piles: 1

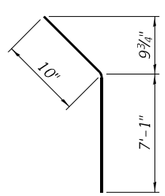


FIELD CUTTING DIAGRAM

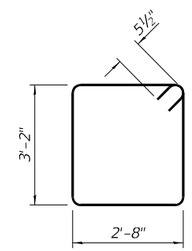
Order v2(E) full length. Cut as shown and use remainder of bars in opposite wing.



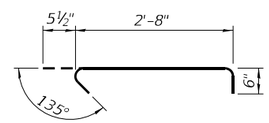
BAR v(E)



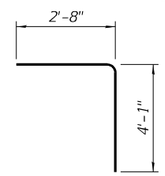
BAR h3(E)



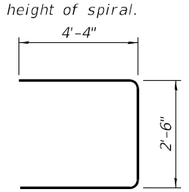
BAR s(E)



BAR s1(E)



BAR s2(E)



BAR u(E)

AIS-0

6-15-2019

EFK•Moen
Civil Engineering Design

USER NAME = ABenz	DESIGNED - ACB	REVISED -
	CHECKED - CDL	REVISED -
PLOT SCALE =	DRAWN - ACB	REVISED -
PLOT DATE = 7/30/2021	CHECKED - CDL	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT
STRUCTURE NO. 006-0189
SHEET 14 OF 21 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(135B-1)BRR	BUREAU	84	51
		CONTRACT NO. 66H26		
	ILLINOIS FED. AID PROJECT			

MODEL: Default
FILE NAME: \\SERVER18\Projects\SSA\20027.09 IDOT D3 PTB 194-027 WO9 IL 92 over Hennepin Canal Feeder\DGN\Bridge\Final\Plotsheets\0060189-66Hi26-014-West_Abutment.dgn
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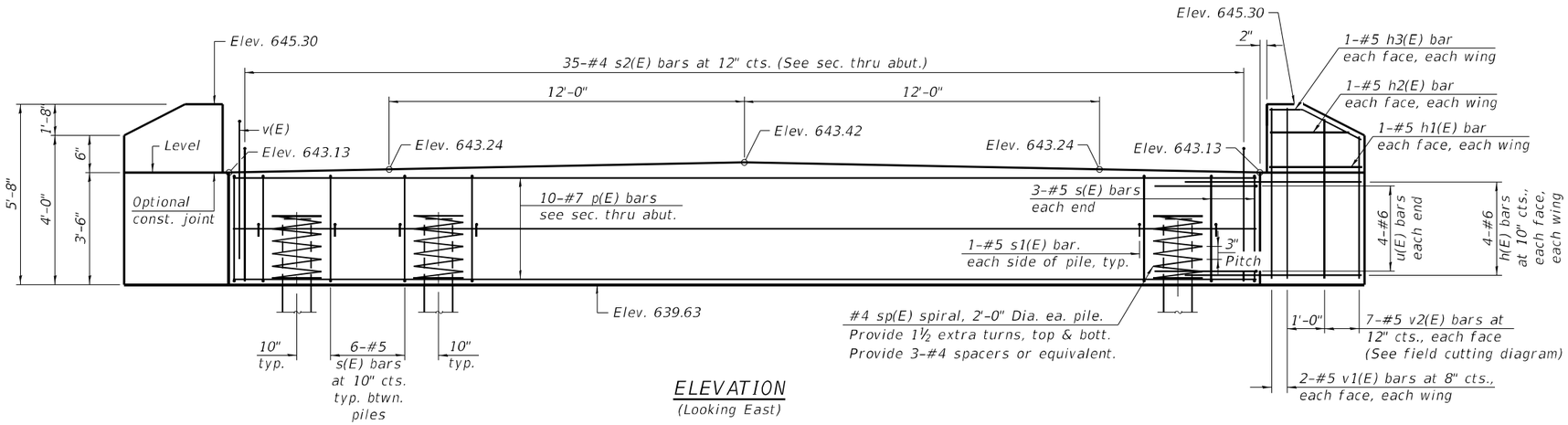
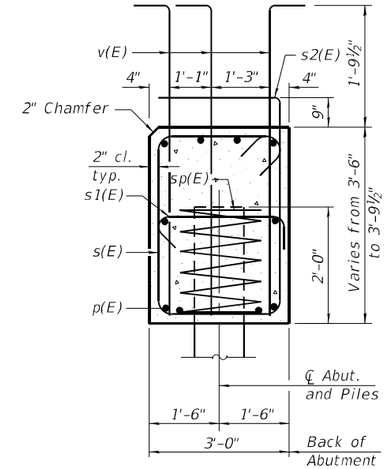
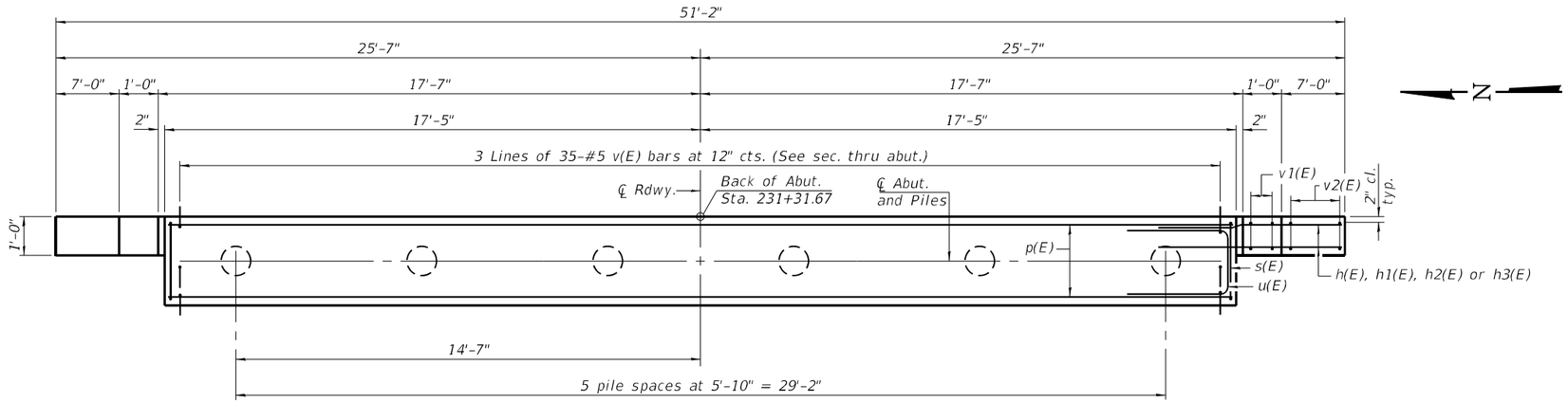


ELEVATION
(Looking East)



SEC. THRU ABUT.



PLAN

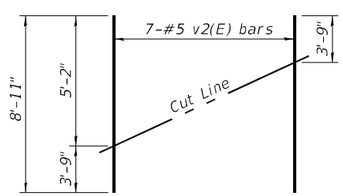
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	16	#6	12'-4"	
h1(E)	4	#5	7'-9"	
h2(E)	4	#5	4'-10"	
h3(E)	4	#5	7'-11"	
p(E)	10	#7	34'-6"	
s(E)	36	#5	12'-7"	
s1(E)	12	#5	3'-8"	
s2(E)	35	#4	6'-9"	
* sp(E)	6	#4	2'-0"	
u(E)	8	#6	11'-2"	
v(E)	105	#5	6'-0"	
v1(E)	8	#5	5'-5"	
v2(E)	14	#5	8'-11"	
Structure Excavation			Cu. Yd.	37
Concrete Structures			Cu. Yd.	16.9
Reinforcement Bars, Epoxy Coated			Pound	3,000
Furnishing Metal Shell Piles 14" x 0.312"			Foot	150
Driving Piles			Foot	150
Test Pile Metal Shells			Each	1
Pile Shoes			Each	6

For details of piles see sheet 17 of 21.
* Length is height of spiral.

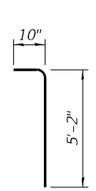
PILE DATA

Type: Metal Shell Piles 14" x 0.312" with Pile Shoes
Nominal Required Bearing: 271k
Factored Resistance Available: 149k
Est. Length: 30'
No. Production Piles: 5
No. Test Piles: 1

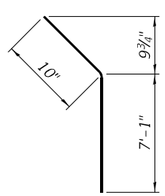


FIELD CUTTING DIAGRAM

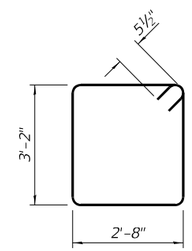
Order v2(E) full length. Cut as shown and use remainder of bars in opposite wing.



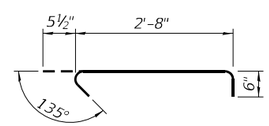
BAR v(E)



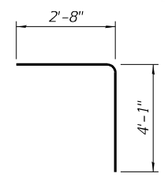
BAR h3(E)



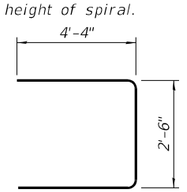
BAR s(E)



BAR s1(E)



BAR s2(E)



BAR u(E)

AIS-0

6-15-2019

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Civil Engineering Design

USER NAME = ABenz	DESIGNED - ACB	REVISED -
	CHECKED - CDL	REVISED -
PLOT SCALE =	DRAWN - ACB	REVISED -
PLOT DATE = 7/30/2021	CHECKED - CDL	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST ABUTMENT
STRUCTURE NO. 006-0189
SHEET 15 OF 21 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(135B-1)BRR	BUREAU	84	52
		CONTRACT NO. 66H26		
	ILLINOIS FED. AID PROJECT			

MODEL: Default
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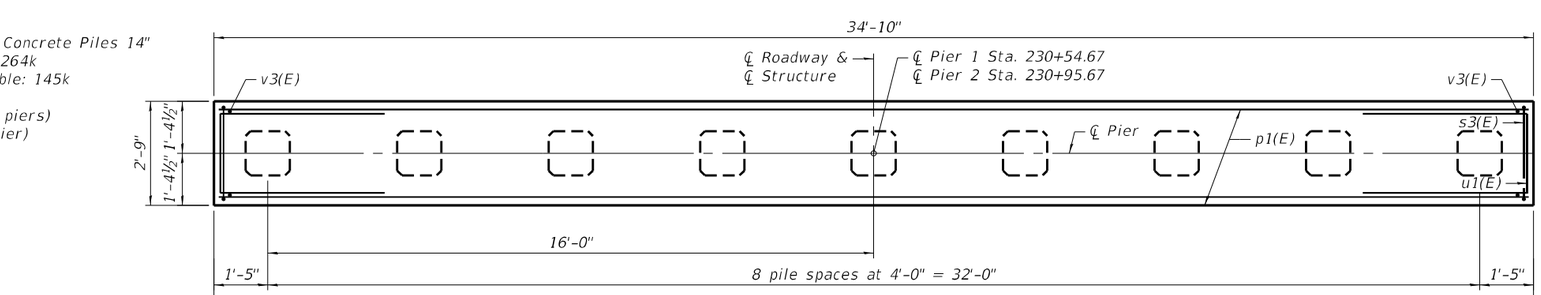
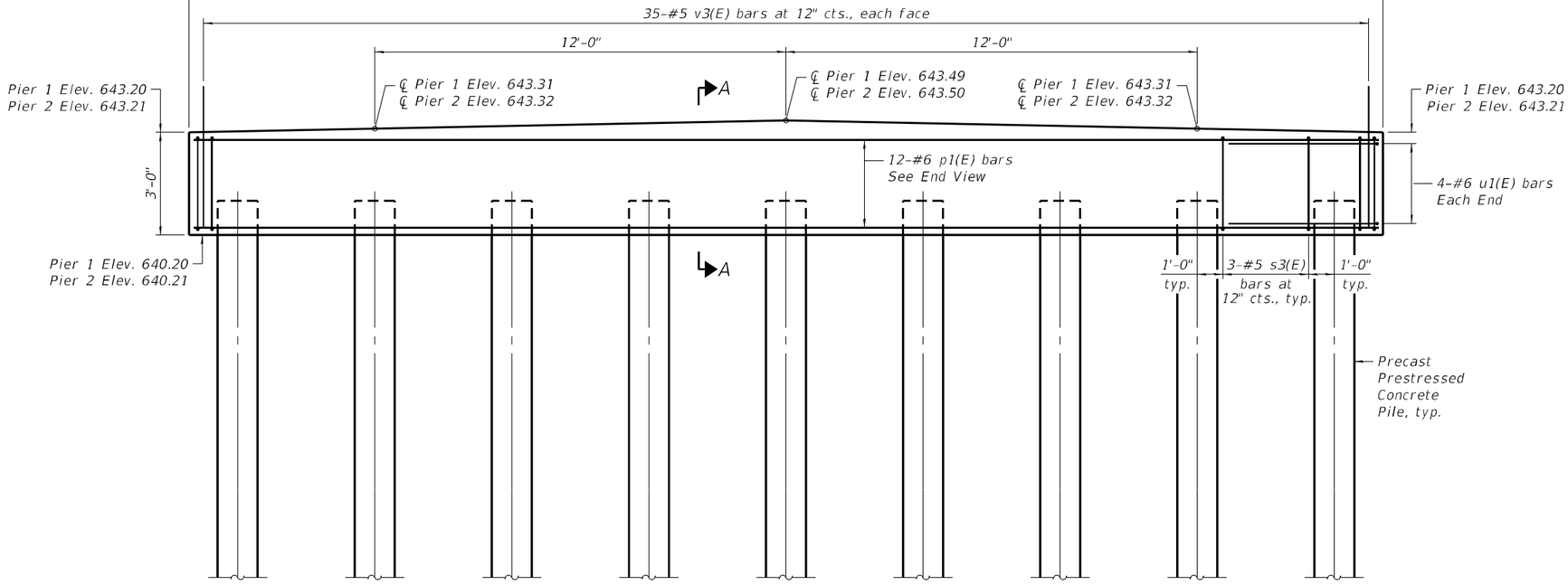
7/30/2021 10:08:19 AM

PILE DATA

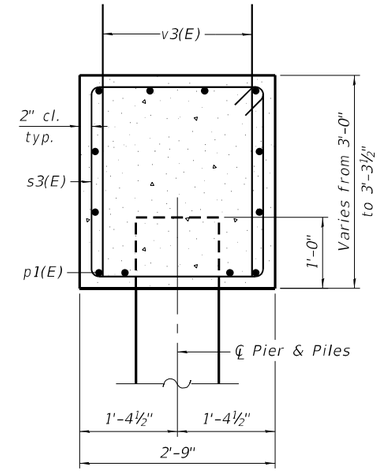
Type: Precast Prestressed Concrete Piles 14"
Nominal Required Bearing: 264k
Factored Resistance Available: 145k
Est. Length: 35'
No. Production Piles: 16 (2 piers)
No. Test Piles: 2 (1 Each Pier)



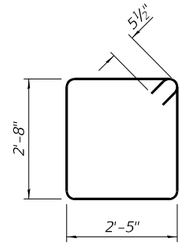
PLAN



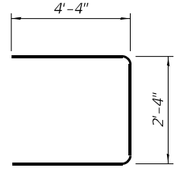
ELEVATION
(Looking East)



SECTION A-A



BAR s3(E)



BAR u1(E)

TWO PIERS
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
p1(E)	24	#6	34'-6"	
s3(E)	56	#5	11'-1"	
u1(E)	16	#6	11'-0"	
v3(E)	140	#5	4'-2"	
Concrete Structures			Cu. Yd.	22.4
Reinforcement Bars, Epoxy Coated			Pound	2,760
Furnishing Precast Prestressed Concrete Piles 14"			Foot	560
Driving Piles			Foot	560
Test Pile Precast Prestressed Concrete			Each	2

For details of piles see sheet 18 of 21.

MODEL: Default
FILE NAME: \\SERVER18\Projects\SS4\20027.09 IDOT D3 PTB 194-027 WO9 IL 92 over Hennepin Canal Feeder\DGN\Bridge\Final\Plotsheets\00601189-66H26-016-Piers.dgn
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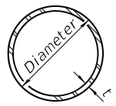
USER NAME = ABenz	DESIGNED - ACB	REVISED -	
	CHECKED - CDL	REVISED -	
PLOT SCALE =	DRAWN - ACB	REVISED -	
PLOT DATE = 9/29/2021	CHECKED - CDL	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

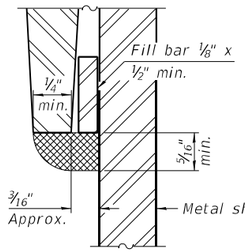
PIERS
STRUCTURE NO. 006-0189
SHEET 16 OF 21 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(135B-1)BRR	BUREAU	84	53
		CONTRACT NO. 66H26		
		ILLINOIS	FED. AID PROJECT	

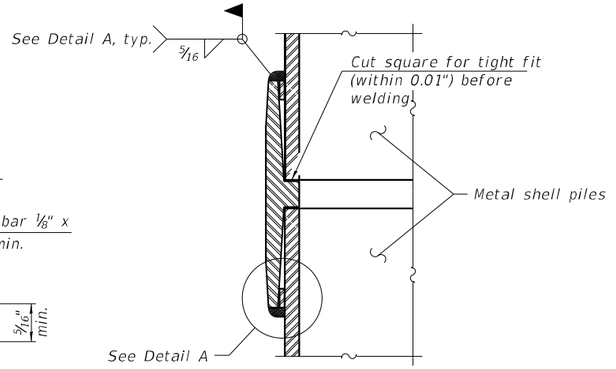


METAL SHELL PILE TABLE

Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd.³/ft.)
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361
PP16	0.312"	52.32	0.0478
PP16	0.375"	62.64	0.0470

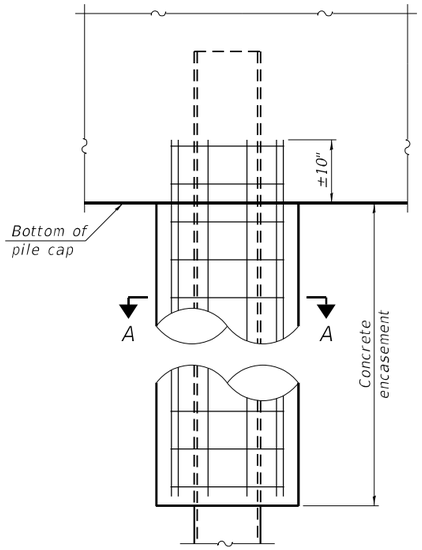


DETAIL A



WELDED COMMERCIAL SPLICE

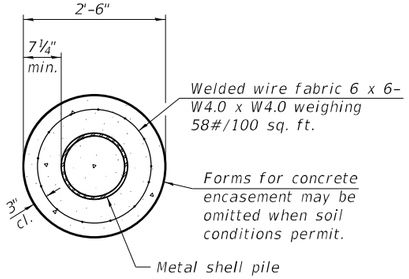
Notes:
The ⅛" x ½" min. fill bar may be constructed of 2 bars with a ⅛" max. gap between them.
Pile segments shall be driven to solid contact with splicer before welding.



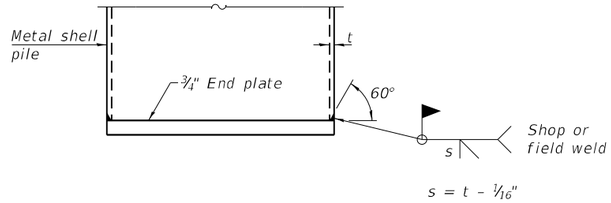
ELEVATION

INDIVIDUAL PILE CONCRETE ENCASEMENT

(When specified)

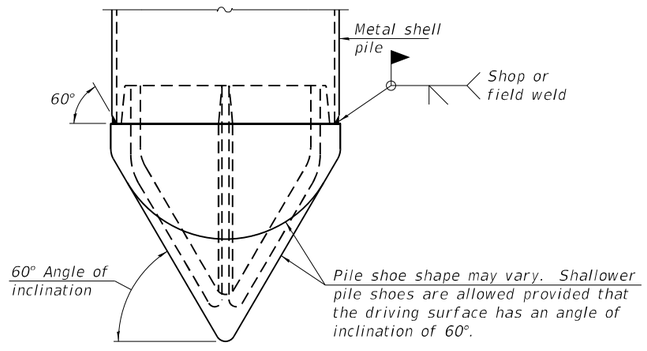


SECTION A–A



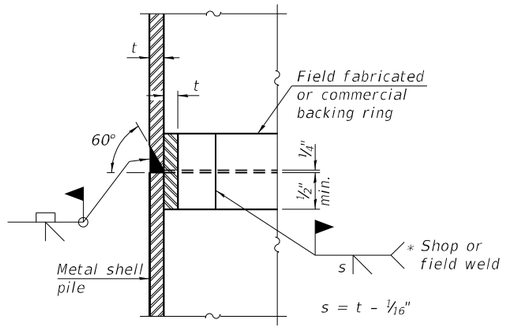
$s = t - \frac{1}{16}"$

END PLATE ATTACHMENT



PILE SHOE ATTACHMENT

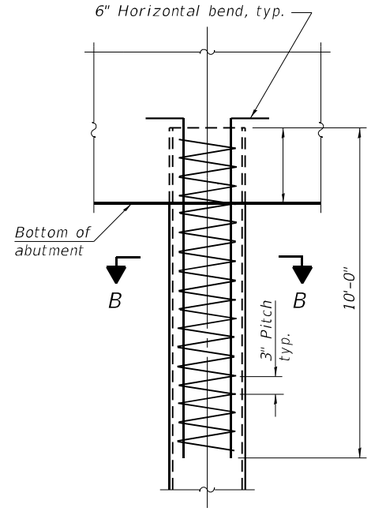
(When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 80–50 or AASHTO M 103 Grade 65–35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld).



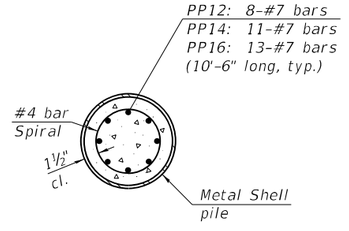
$s = t - \frac{1}{16}"$

COMPLETE PENETRATION WELD SPLICE

* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.



ELEVATION



SECTION B–B

REINFORCEMENT AT ABUTMENTS

(Omit when concrete encasement is specified)

Note:
The metal shell piles shall be according to Article 1006.05 of the Standard Specifications.

F–MS 1-1-2020

EFK•Moen Civil Engineering Design

USER NAME = ABenz	DESIGNED - ACB	REVISED -	
	CHECKED - CDL	REVISED -	
PLOT SCALE =	DRAWN - ACB	REVISED -	
PLOT DATE = 7/30/2021	CHECKED - CDL	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

METAL SHELL PILE DETAILS
STRUCTURE NO. 006-0189
SHEET 17 OF 21 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(135B-1)BRR	BUREAU	84	54
		CONTRACT NO. 66H26		
		ILLINOIS	FED. AID PROJECT	

MODEL: Default
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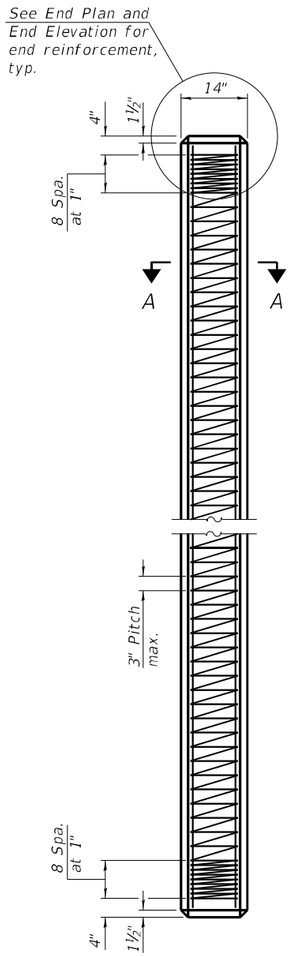
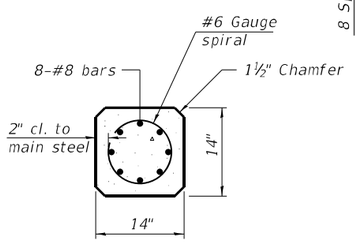
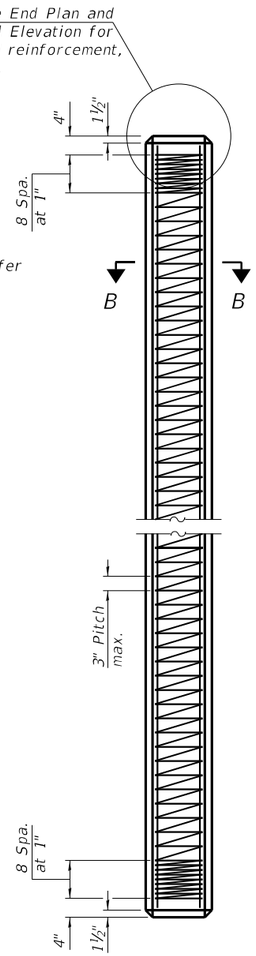
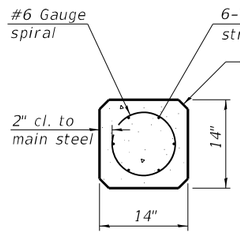
7/30/2021 10:08:25 AM



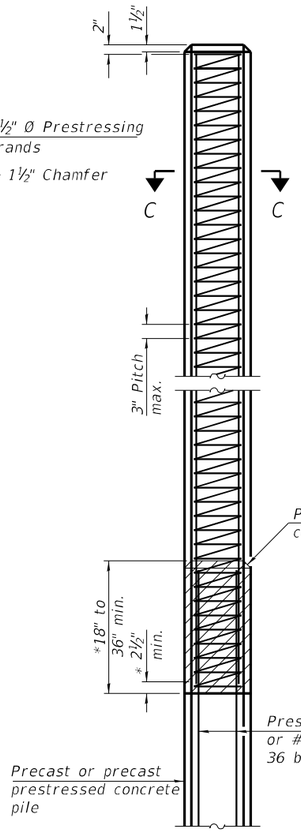


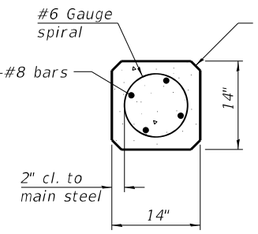
SECTION A-A



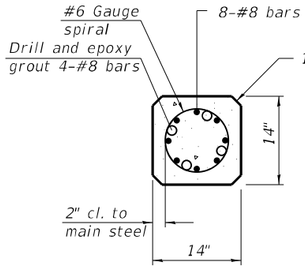


SECTION B-B

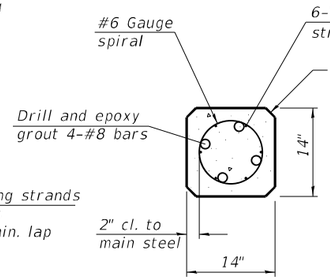




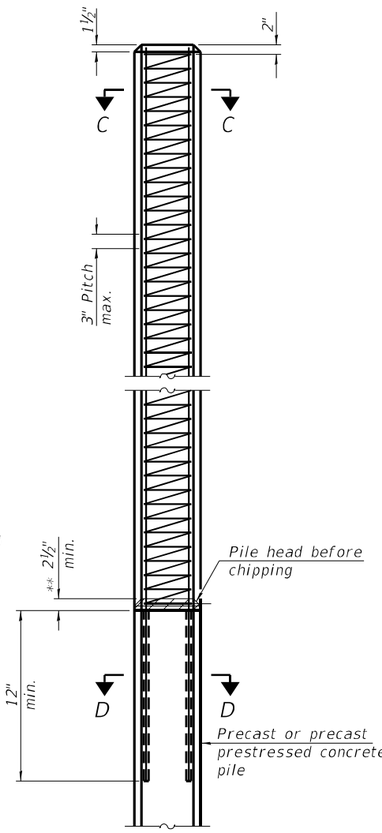
SECTION C-C



SECTION D-D
(Precast)



SECTION D-D
(Precast prestressed)

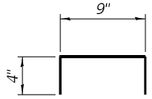


PRECAST CONCRETE PILE

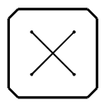
PRECAST PRESTRESSED CONCRETE PILE

STANDARD PILE EXTENSION

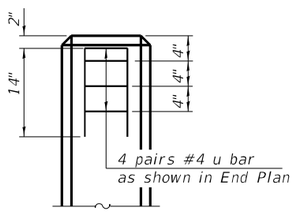
ALTERNATE PILE EXTENSION



BAR u



END PLAN
(End reinforcement only)



END ELEVATION
(End reinforcement only)

* To construct pile extension , chip top of pile back 36 bar Ø min. to expose vertical bars and lap vertical buildup bars. Remove spiral to 2½" min. above chipping and provide full strength lap weld exterior face (4" min. length).

** To construct pile extension, chip top of pile back 2½" to expose wire spiral and provide full strength lap weld exterior face (4" min. length).

NOTES

Prestressing steel shall be uncoated high strength, low-relaxation 7-wire strand. The nominal diameter shall be ½" with a cross-sectional area of 0.153 in².

For precast prestressed concete pile lengths up to 65', use two slings placed at a distance of 0.21 L* from each end. For Piles longer than 65', use three slings placed at a distance of 0.12 L* from each end and at midpoint of pile. *L= Overall length of pile to be handled.

For precast concrete pile lengths up to 45', use two slings placed at a distance of 0.21 L from each end. For handling piles longer than 45', use three slings placed at a distance of 0.12 L from each end and at midpoint of pile.

DESIGN STRESSES

f'c = 5,000 p.s.i.(prestressed)
f'c = 4,500 p.s.i. (precast)
f'ci = 4,000 p.s.i.
f's = 270,000 p.s.i. (41,300 lbs.-½" Ø)
fsi = 189,000 p.s.i. (28,900 lbs.-½" Ø)

F-PC 1-1-2020

EFK•Moen Civil Engineering Design

USER NAME = ABenz	DESIGNED - ACB	REVISED -	
	CHECKED - CDL	REVISED -	
PLOT SCALE =	DRAWN - ACB	REVISED -	
PLOT DATE = 7/30/2021	CHECKED - CDL	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PRECAST PILE DETAILS
STRUCTURE NO. 006-0189
SHEET 18 OF 21 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(135B-1)BRR	BUREAU	84	55
		CONTRACT NO. 66H26		
	ILLINOIS	FED. AID PROJECT		

MODEL: Default
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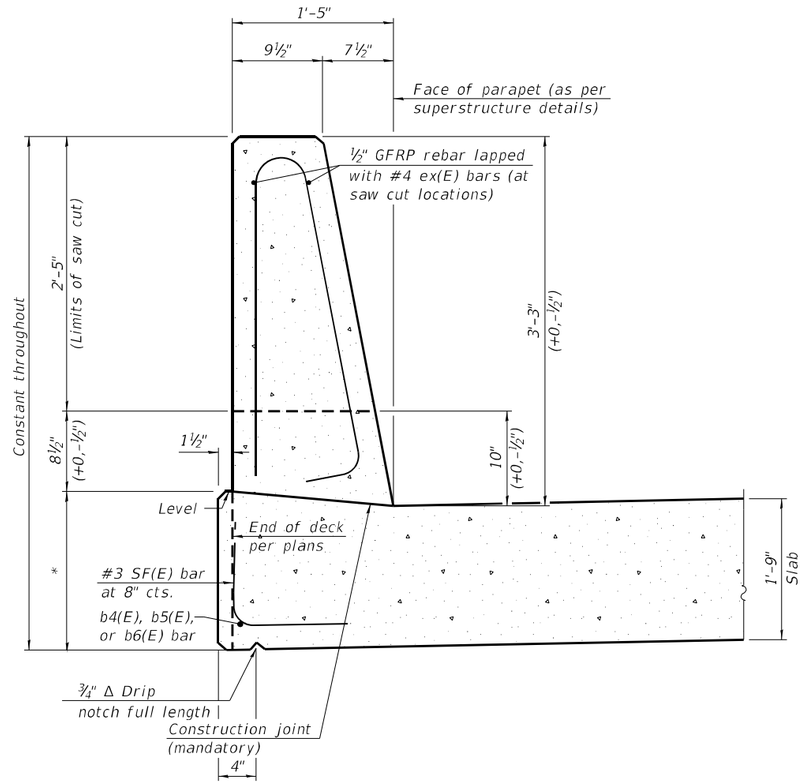
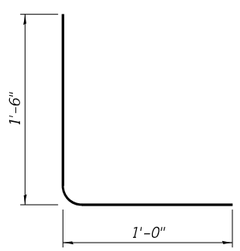
7/30/2021 10:08:28 AM



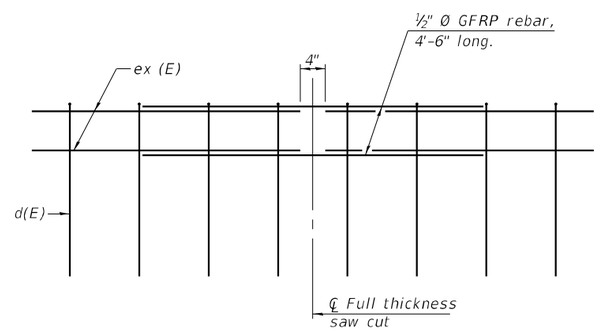
39" CONSTANT-SLOPE PARAPET SECTION

(Showing dimensions, d(E), and ½" Ø GFRP rebar)

*See Superstructure Details.



#3 SF(E) BAR



GFRP REBAR STIFFENING DETAIL

(Place as shown in parapet section at each parapet joint location.)

Notes:

All dimensions shall remain the same as shown on superstructure details, except the deck width increases by 1½" as shown in the Parapet Section. Additional concrete needed to revise the deck width = 0.00866 cu. yds./ft. for 39" parapets.

Place full depth aluminum sheets as shown on superstructure details.

Replace all cork joint filler locations with a full thickness saw cut.

Steel superstructure shown. Other superstructure types similar.

Illinois Department of Transportation

Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Date 5/28/19

ROUTE FAP 587 (IL 92) DESCRIPTION IL 92 over I&M Feeder Canal (Hennepin Canal Feeder), 1.0 miles East of IL 172 LOGGED BY Larry Myers

SECTION (135 B-1)ES LOCATION SE 1/4, **SEC.** 2, **TWP.** 18N, **RNG.** 6E, 4th **PM**,
Latitude 41.569205, **Longitude** -89.767603

COUNTY Bureau DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 006-0096 (Exist.)
Station 230+75

BORING NO. 01 (N.W. Quad.)
Station 230+16
Offset 29.0 ft Lt.
Ground Surface Elev. 639.05 ft

Surface Water Elev. 633.08 ft
Stream Bed Elev. 628.51 ft

Groundwater Elev.:
First Encounter 626.6 ft ▼
Upon Completion 627.1 ft ▽
After ____ **Hrs.** ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Augered Black Silty Clay Loam Topsoil, Gray & Brown Silt / Silty Loam Fill			
636.55			
Stiff Gray & Brown Silt & Silty Loam Fill & Brown Silty Clay Loam Fill	3		
	3 3	1.0 P	21
-5	1		
	2 3	1.0 P	27
	1		
	3 2	1.5 P	23
629.05 -10			
Stiff Brown & Gray Fine Sand, Silt, Silty Loam - Bedded	2		
	2 2	1.0 P	27
627.05			
Loose Brown Very Fine Silty Sand - Free Water ▼	2		
	3 6		20
625.05			
Medium Brown Very Fine to Medium Sand - Minor Silty Layers -15	6		
	7 9		19
	5		
	6 8		19
-20			
Medium Brown Very Fine to Medium Sand - Minor Silty Layers *(continued)*	2		
618.05	4 8		19
Medium Gray Fine to Coarse Sand - Clean			
* Washed Sample 22.5' to 24.0'	4		
	8 12	*	23
-25	4		
* Washed Sample 25.0' to 26.5'	7 13	*	19
* Washed Sample 27.5' to 29.0'	7		
	10 15	*	21
-30	9		
* Washed Sample 30.0' to 31.5'	11 17	*	22
607.05			
Dense Gray Fine to Coarse Sand - Clean	10		
* Washed Sample 32.5' to 34.0'	14 17	*	21
-35	11		
* Washed Sample 35.0' to 36.5'	18 23	*	21
* Washed Sample 37.5' to 39.0'	12		
	24 35	*	20
-40			

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

BBS, form 137 (Rev. 8-99)

SOIL BORING 006-0096.GPJ IL_DOT.GDT 6/4/20

Illinois Department of Transportation

Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Date 5/28/19

ROUTE FAP 587 (IL 92) DESCRIPTION IL 92 over I&M Feeder Canal (Hennepin Canal Feeder), 1.0 miles East of IL 172 LOGGED BY Larry Myers

SECTION (135 B-1)ES LOCATION SE 1/4, **SEC.** 2, **TWP.** 18N, **RNG.** 6E, 4th **PM**,
Latitude 41.569205, **Longitude** -89.767603

COUNTY Bureau DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 006-0096 (Exist.)
Station 230+75

BORING NO. 01 (N.W. Quad.)
Station 230+16
Offset 29.0 ft Lt.
Ground Surface Elev. 639.05 ft

Surface Water Elev. 633.08 ft
Stream Bed Elev. 628.51 ft

Groundwater Elev.:
First Encounter 626.6 ft ▼
Upon Completion 627.1 ft ▽
After ____ **Hrs.** ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Dense Gray Fine to Coarse Sand - Clean *(continued)*	15		
* Washed Sample 40.0' to 41.5'	23 36	*	21
* Washed Sample 42.5' to 44.0'	16		
	25 39	*	21
-45			
* Washed Sample 45.0' to 46.5'	21		
	24 41	*	21
592.55			
End of Boring			
-50			
-55			
-60			

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

BBS, form 137 (Rev. 8-99)

SOIL BORING 006-0096.GPJ IL_DOT.GDT 6/4/20

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7/30/2021 10:08:35 AM

EFK•Moen
Civil Engineering Design

USER NAME = ABenz	DESIGNED - ACB	REVISED -	
	CHECKED - CDL	REVISED -	
PLOT SCALE =	DRAWN - ACB	REVISED -	
PLOT DATE = 7/30/2021	CHECKED - CDL	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 006-0189
SHEET 20 OF 21 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(135B-1)BRR	BUREAU	84	57
		CONTRACT NO. 66H26		
	ILLINOIS	FED. AID PROJECT		

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Date 6/11/19

ROUTE FAP 587 (IL 92) **DESCRIPTION** IL 92 over I&M Feeder Canal (Hennepin Canal Feeder), 1.0 miles East of IL 172 **LOGGED BY** Larry Myers

SECTION (135 B-1)ES **LOCATION** NE 1/4, **SEC.** 11, **TWP.** 18N, **RNG.** 6E, 4th **PM**,
Latitude 41.569059, **Longitude** -89.767187

COUNTY Bureau **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. 006-0096 (Exist.)
Station 230+75

BORING NO. 02 (S.E. Quad.)
Station 231+37
Offset 23.0 ft Rt.
Ground Surface Elev. 639.13 ft

Surface Water Elev. 633.08 ft
Stream Bed Elev. 627.90 ft

Groundwater Elev.:
First Encounter 627.1 ft ▼
Upon Completion 627.1 ft ▽
After ____ **Hrs.** ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Augered Black / Brown Silty Clay Loam Fill			
636.63			
Stiff Brown Silty Clay Loam Fill with Fine Sand Layers - Fill	2 3	1.5 P	15
-5	3		
	3 2	2.0 P	22
WH = Weight of Hammer	WH		
	1 1	1.0 P	26
629.63			
Very Loose Brown & Gray Fine Sand & Silt - Interbedded	2		
	2 1		24
627.13 ▼			
Medium Brown Fine Sand	3		
	5 6		20
624.63			
-15 Medium Gray Fine to Medium Sand	7		
	10 15		19
* Washed Sample 17.5' to 19.0'	8		
	12 14	***	19
-20			
Medium Gray Fine to Medium Sand *(continued)*	6		
	7 8	*	23
* Washed Sample 20.0' to 21.5'			
	6		
* Washed Sample 22.5' to 24.0'			
	8 10	*	22
-25			
* Washed Sample 25.0' to 26.5'	7		
	9 11	*	20
* Washed Sample 27.5' to 29.0'	6		
	8 9	*	21
-30			
* Washed Sample 30.0' to 31.5'	6		
	9 11	*	22
607.13			
Dense Gray Fine to Medium Sand with some Coarse Sand	10		
* Washed Sample 32.5' to 34.0'	18 16	*	20
-35			
* Washed Sample 35.0' to 36.5'	12		
	15 17	*	19
* Washed Sample 37.5' to 39.0'	16		
	18 21	*	21
-40			

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

BBS, form 137 (Rev. 8-99)

SOIL BORING 006-0096.GPJ IL_DOT.GDT 6/4/20

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Date 6/11/19

ROUTE FAP 587 (IL 92) **DESCRIPTION** IL 92 over I&M Feeder Canal (Hennepin Canal Feeder), 1.0 miles East of IL 172 **LOGGED BY** Larry Myers

SECTION (135 B-1)ES **LOCATION** NE 1/4, **SEC.** 11, **TWP.** 18N, **RNG.** 6E, 4th **PM**,
Latitude 41.569059, **Longitude** -89.767187

COUNTY Bureau **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME Automatic

STRUCT. NO. 006-0096 (Exist.)
Station 230+75

BORING NO. 02 (S.E. Quad.)
Station 231+37
Offset 23.0 ft Rt.
Ground Surface Elev. 639.13 ft

Surface Water Elev. 633.08 ft
Stream Bed Elev. 627.90 ft

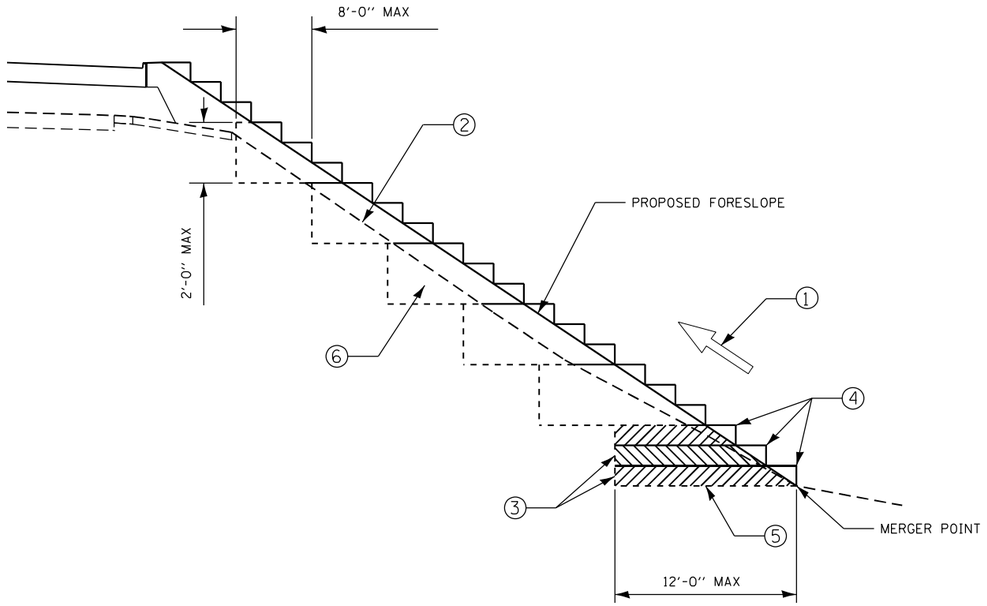
Groundwater Elev.:
First Encounter 627.1 ft ▼
Upon Completion 627.1 ft ▽
After ____ **Hrs.** ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Dense Gray Fine to Medium Sand with some Coarse Sand *(continued)*	18		
	21 24	*	20
* Washed Sample 40.0' to 41.5'			
* Washed Sample 42.5' to 44.0'	14		
	20 22	*	20
-45			
* Washed Sample 45.0' to 46.5'	16		
	23 24	*	21
* Washed Sample 50.0' to 51.5'	18		
-50			
	24 25	*	21
-55			
* Washed Sample 55.0' to 56.5'	16		
	22 24	*	23
582.63			
End of Boring			
-60			

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

BBS, form 137 (Rev. 8-99)

SOIL BORING 006-0096.GPJ IL_DOT.GDT 6/4/20



TYPICAL BENCHING FOR EMBANKMENT DETAIL

SCALE: NONE

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

③ BENCH CUT EXISTING FINAL 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 SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE CONSIDERED AS INCLUDED IN THE VARIOUS ITEMS OF EXCAVATION, AND THEIR CONSTRUCTION SHALL BE INCLUDED IN THE PRICES FOR THESE ITEMS.

⑦ SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 4:1 AND THE HEIGHT IS GREATER THAN 5'.

MODEL: Default
FILE NAME: Z:\20027.09 IDOT D3 PTB 194-027 W09 IL 92 over Hennepin Canal Feeder\DGN\Design\Preliminary\Presheet\D366H26-sht-03details.dgn

EFK•Moen
Civil Engineering Design

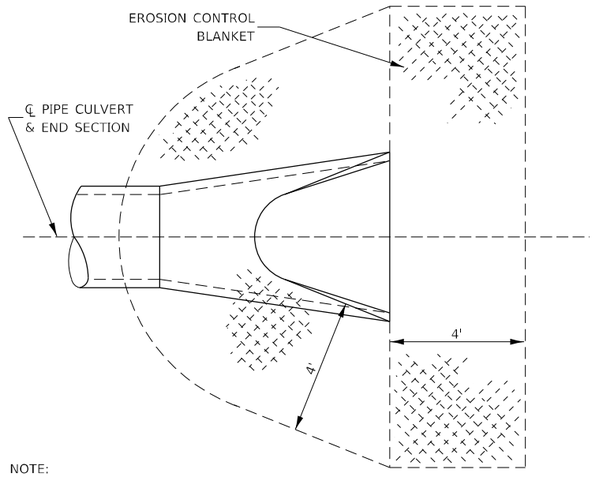
USER NAME = RGall	DESIGNED - RG	REVISED -
	DRAWN - CS	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - JH	REVISED -
PLOT DATE = 8/3/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 92 OVER HENNEPIN CANAL FEEDER
BENCHING DETAILS

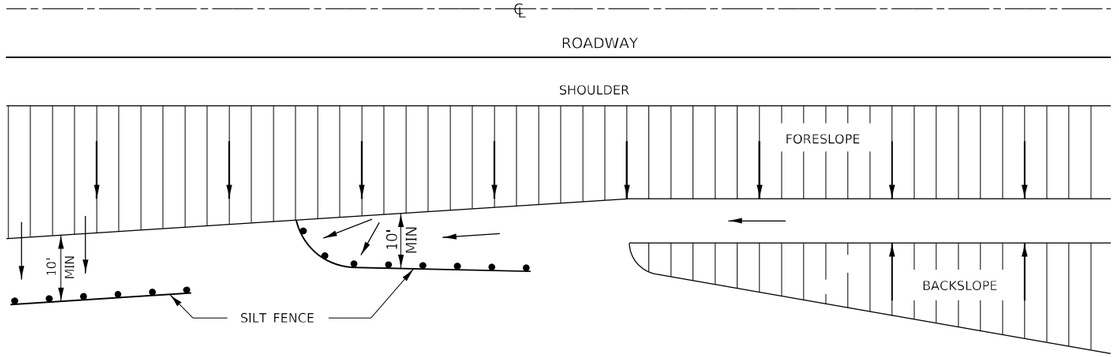
SCALE: | SHEET OF SHEETS | STA. | TO STA.

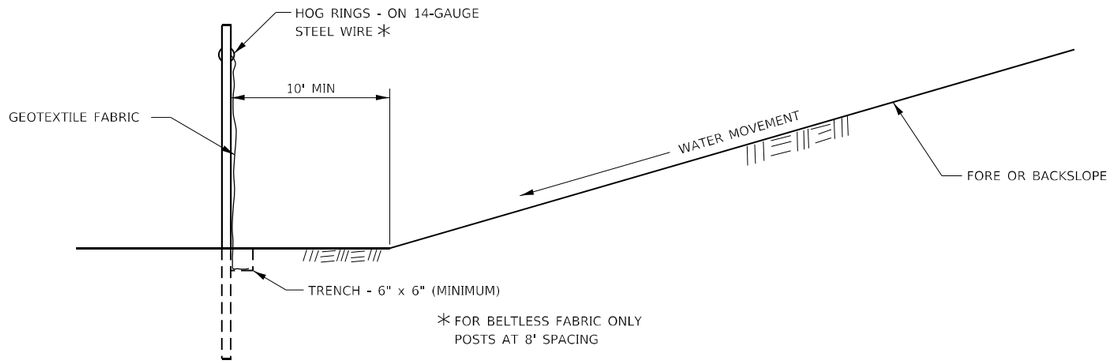
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(135B-1)BR	BUREAU	84	59
		CONTRACT NO. 66H26		
	ILLINOIS	FED. AID PROJECT		



NOTE:
TO BE USED AT ALL END SECTIONS

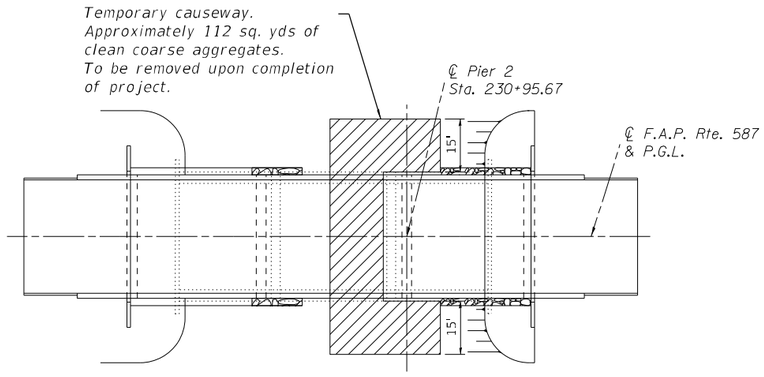
DETAIL OF EROSION CONTROL BLANKET LINING AROUND END SECTION





DETAILS OF SILT FENCE

EROSION CONTROL DETAILS FOR SILT FENCE



TEMPORARY CAUSEWAY

EFK♦Moen
Civil Engineering Design

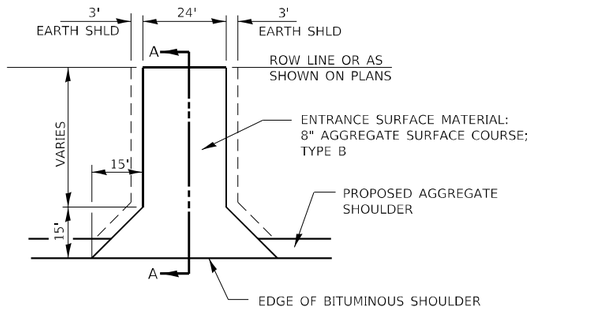
USER NAME = RCall	DESIGNED - RG	REVISED -
	DRAWN - CS	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - JH	REVISED -
PLOT DATE = 8/3/2021	DATE -	REVISED -

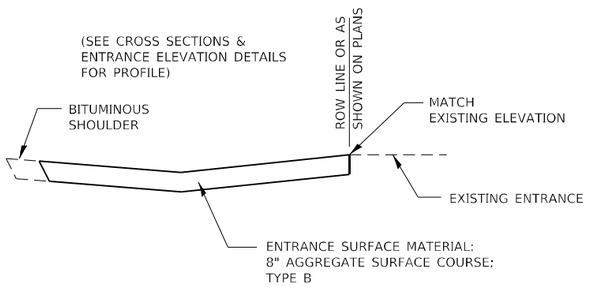
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 92 OVER HENNEPIN CANAL FEEDER
DETAILS

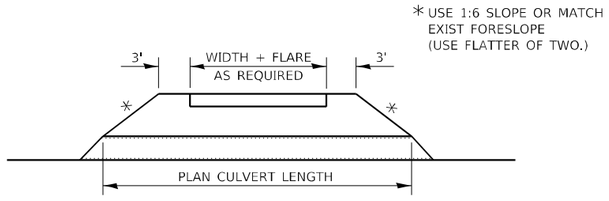
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(1358-1)BR	BUREAU	84	60
		CONTRACT NO. 66H26		
	ILLINOIS FED. AID PROJECT			

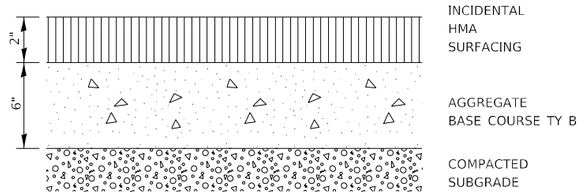




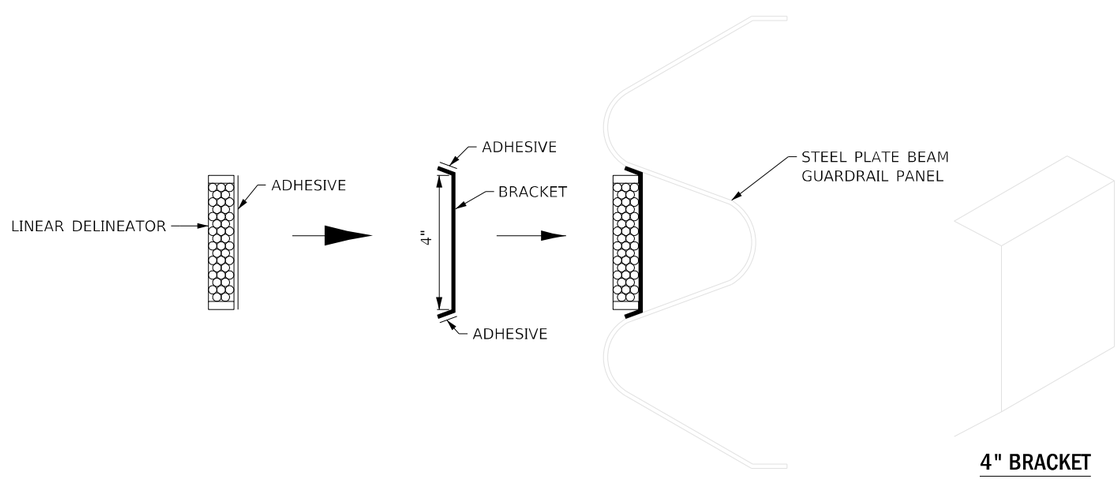
SECTION A-A



FIELD ENTRANCE DETAIL



BICYCLE PATH OR SHARED-USE TRAIL CROSS SECTION



4" BRACKET

LINEATOR DELINEATOR APPLICATION TO STANDARD GALVANIZED GUARDRAIL

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

EFK•Moen
Civil Engineering Design

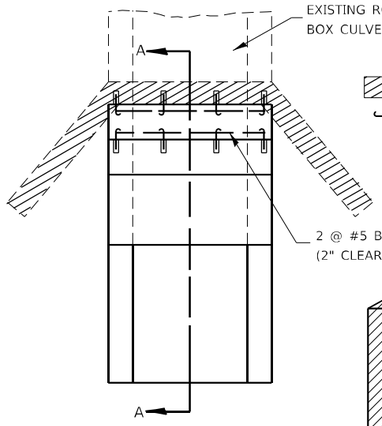
USER NAME = RGall	DESIGNED - RG	REVISED -
	DRAWN - CS	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - JH	REVISED -
PLOT DATE = 8/3/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 92 OVER HENNEPIN CANAL FEEDER
DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(135B-1)BR	BUREAU	84	61
		CONTRACT NO. 66H26		
	ILLINOIS	FED. AID PROJECT		

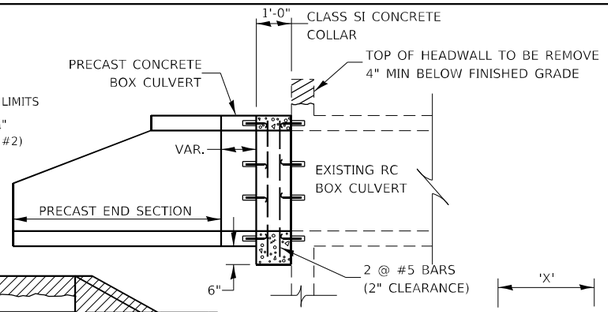


PLAN VIEW

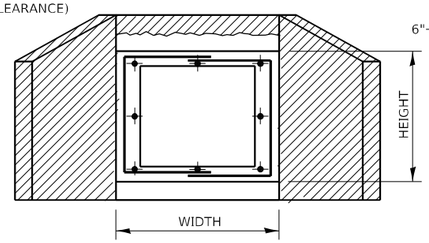
LEGEND

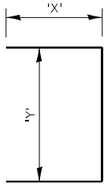
CONCRETE REMOVAL LIMITS

EXPANSION BOLTS, ¾"
(SEE GENERAL NOTE #2)

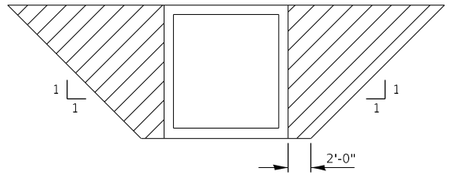


SECTION A-A





U-BAR



PAY LIMITS FOR POROUS
GRANULAR EMBANKMENT
(HATCHED AREA)

GENERAL NOTES

1.) CLASS SI CONCRETE SHALL BE USED THROUGHOUT. THE INSIDE DIMENSIONS OF THE CLASS SI CONCRETE COLLAR SHALL BE THE SAME AS THE NEW PRECAST CONCRETE BOX CULVERT.

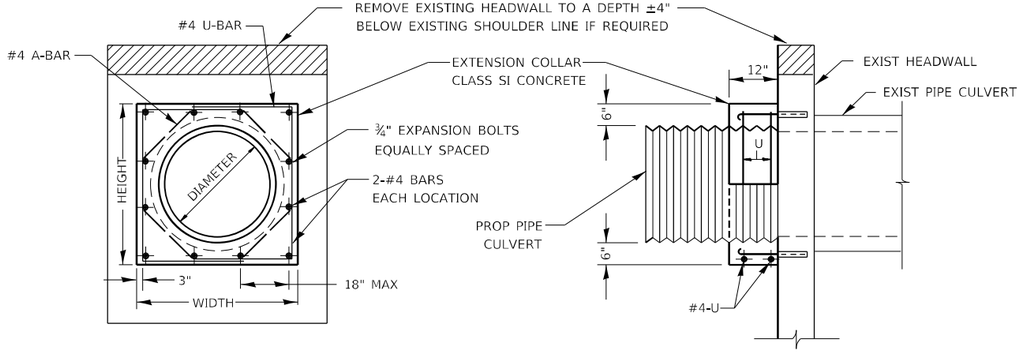
2.) EXPANSION BOLTS SHALL CONSIST OF SELF DRILLING EXPANSION SHIELDS AND ¾" HOOKED BOLTS. HOOKED BOLTS SHALL EXTEND A MINIMUM OF 9" INTO NEW CONCRETE. BOLTS SHALL BE PLACED IN EACH CORNER AND AT 18" MAXIMUM CENTERS. MINIMUM CERTIFIED PROOF LOADING = 4,080 LBS.

3.) THE DESIGN FILL HEIGHT FOR THIS BOX IS 4.2 FT. THE PRECAST BOX CULVERT SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF ASTM C 1577.

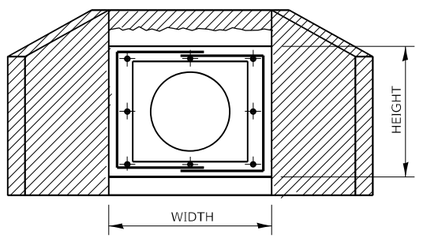
4.) PRECAST CONCRETE BOX CULVERTS AND BOX CULVERT END SECTIONS SHALL BE BACKFILLED WITH POROUS GRANULAR EMBANKMENT IN THE REQUIRED EXCAVATION AREAS ON THE SIDES OF THE BOX CULVERT FROM THE TOP OF THE BOX CULVERT TO THE BOTTOM OF THE BOX CULVERT. THIS AREA OF PGE IS INCLUDED IN THE POROUS GRANULAR EMBANKMENT PAY ITEM. THE 6-INCH THICK LAYER OF POROUS GRANULAR MATERIAL REQUIRED UNDER THE PRECAST CONCRETE BOX CULVERT, ACCORDING TO SECTION 540.06 OF THE STANDARD SPECIFICATIONS, SHALL ALSO APPLY TO THE END SECTIONS. COST OF THIS POROUS GRANULAR MATERIAL WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE OF THE WORK FOR WHICH IT IS REQUIRED.

							QUANTITIES ARE FOR ONE SIDE ONLY			
LOCATION	EXISTING CULVERT SIZE	PRECAST CULV. EXTENSION	EXTENSION COLLAR 'X'	EXTENSION COLLAR 'Y'	U-BAR 'X'	U-BAR 'Y'	CONC COLLAR	REINFORCEMENT BARS	¾" DIA EXPANSION BOLTS	CONCRETE REMOVAL
	FT x FT	IN	IN	IN	IN	IN	CU YD	POUND	EACH	CU YD
226+14	3 x 3	3 x 3	60	61	39	57	0.5	47	20	2

COLLAR DETAIL (PRECAST BOX CULVERT EXTENSION OF BOX CULVERT)



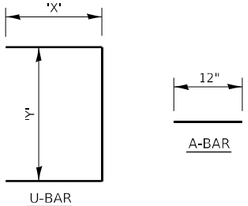
EXPANSION BOLTS SHALL CONSIST OF SELF DRILLING EXPANSION SHIELDS AND ¾" DIA HOOKED BOLTS. HOOKED BOLTS SHALL EXTEND A MINIMUM OF 9" INTO NEW CONCRETE.
MINIMUM CERTIFIED PROOF LOAD = 4,080 LBS



LEGEND

CONCRETE REMOVAL LIMITS

EXPANSION BOLTS, ¾"

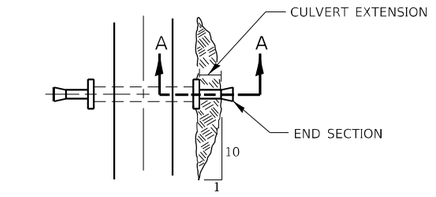


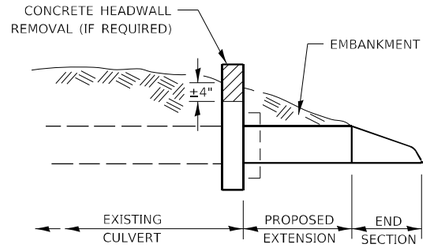
U-BAR

A-BAR

									QUANTITIES ARE FOR ONE SIDE ONLY			
LOCATION	EXISTING CULVERT SIZE	PIPE DIMENSION	PIPE AREA	EXTENSION COLLAR WIDTH	EXTENSION COLLAR HEIGHT	A-BAR 12	U-BAR 'X'	U-BAR 'Y'	CLASS SI CONC COLLAR	REINFORCEMENT BARS	¾" DIA EXPANSION BOLTS	CONCRETE REMOVAL
	DIA IN	DIA IN	SQ FT	IN	IN	IN	IN	IN	CU YD	POUND	EACH	CU YD
232+89	48	48	12.6	60.3	60.3	48	39	56	0.5	36	12	3

COLLAR DETAILS (CMP EXTENSION OF PIPE CULVERT)





SECTION A-A

PLAN AT CULVERT EXTENSIONS

MODEL: Default
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EFK•Moen
Civil Engineering Design

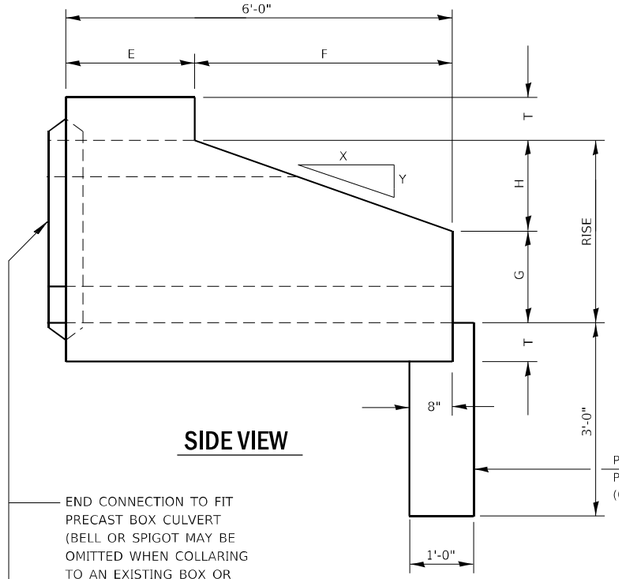
USER NAME = JBerggren	DESIGNED - RG	REVISED -	
	DRAWN - CS	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - JH	REVISED -	
PLOT DATE = 9/29/2021	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

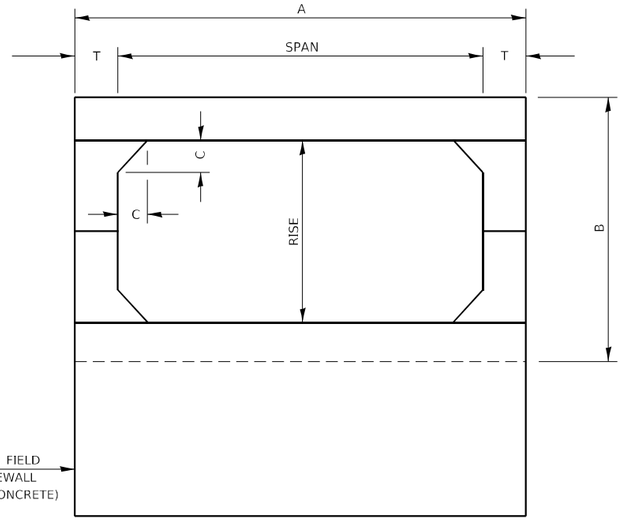
IL 92 OVER HENNEPIN CANAL FEEDER
DETAILS

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

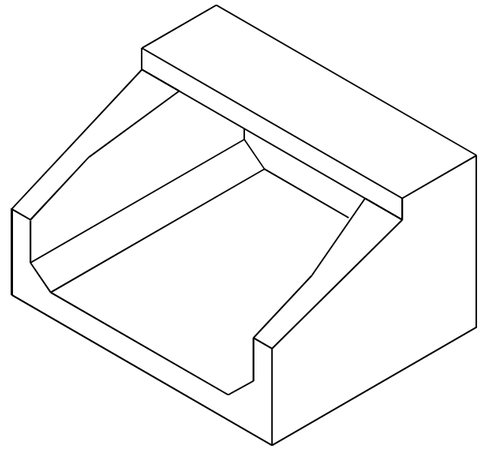
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(1358-1)BR	BUREAU	84	62
		CONTRACT NO. 66H26		
	ILLINOIS FED. AID PROJECT			



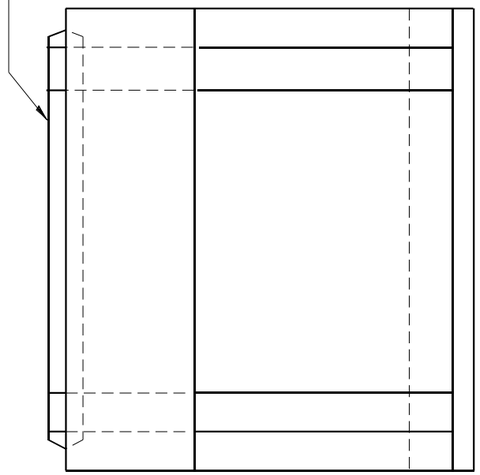
SIDE VIEW



END VIEW



ISOMETRIC VIEW



PLAN

SPAN X RISE	T (INCHES)	A (FT-IN)	B (FT-IN)	C (INCHES)	E (FT-IN)	F (FT-IN)	G (FT-IN)	H (FT-IN)	SLOPE
2' X 2'	4	2 - 8	2 - 8	4	3 - 0	3 - 0	1 - 0	1 - 0	3 : 1
3' X 2'	4	3 - 8	2 - 8	4	3 - 0	3 - 0	1 - 0	1 - 0	3 : 1
3' X 3'	4	3 - 8	3 - 8	4	2 - 0	4 - 0	1 - 8	1 - 4	3 : 1
4' X 2'	5	4 - 10	2 - 10	5	3 - 0	3 - 0	1 - 0	1 - 0	3 : 1
4' X 3'	5	4 - 10	3 - 10	5	2 - 0	4 - 0	1 - 8	1 - 4	3 : 1
4' X 4'	5	4 - 10	4 - 10	5	2 - 0	4 - 0	2 - 0	2 - 0	2 : 1
5' X 2'	6	6 - 0	3 - 0	6	3 - 0	3 - 0	1 - 0	1 - 0	3 : 1
5' X 3'	6	6 - 0	4 - 0	6	2 - 0	4 - 0	1 - 8	1 - 4	3 : 1
5' X 4'	6	6 - 0	5 - 0	6	2 - 0	4 - 0	2 - 0	2 - 0	2 : 1
5' X 5'	6	6 - 0	6 - 0	6		4 - 0	3 - 0	2 - 0	2 : 1
6' X 2'	7	7 - 2	3 - 2	7	3 - 0	3 - 0	1 - 0	1 - 0	3 : 1
6' X 3'	7	7 - 2	4 - 2	7	2 - 0	4 - 0	1 - 8	1 - 4	3 : 1
6' X 4'	7	7 - 2	5 - 2	7	2 - 0	4 - 0	2 - 0	2 - 0	2 : 1
6' X 5'	7	7 - 2	6 - 2	7		4 - 0	3 - 0	2 - 0	2 : 1
7' X 3'	8	8 - 4	4 - 4	8		4 - 0	1 - 8	1 - 4	3 : 1
7' X 4'	8	8 - 4	5 - 4	8		4 - 0	2 - 0	2 - 0	2 : 1
7' X 5'	8	8 - 4	6 - 4	8		4 - 0	3 - 0	2 - 0	2 : 1
8' X 3'	8	9 - 4	4 - 4	8		4 - 0	1 - 8	1 - 4	3 : 1
8' X 4'	8	9 - 4	5 - 4	8		4 - 0	2 - 0	2 - 0	2 : 1
8' X 5'	8	9 - 4	6 - 4	8		4 - 0	3 - 0	2 - 0	2 : 1
9' X 3'	9	10 - 6	4 - 6	9		4 - 0	1 - 8	1 - 4	3 : 1
9' X 4'	9	10 - 6	5 - 6	9		4 - 0	2 - 0	2 - 0	2 : 1
9' X 5'	9	10 - 6	6 - 6	9		4 - 0	3 - 0	2 - 0	2 : 1
10' X 4'	10	11 - 8	5 - 9	10		4 - 0	2 - 0	2 - 0	2 : 1
10' X 5'	10	11 - 8	6 - 8	10		4 - 0	3 - 0	2 - 0	2 : 1

PRECAST CONCRETE BOX CULVERT END SECTION

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Civil Engineering Design

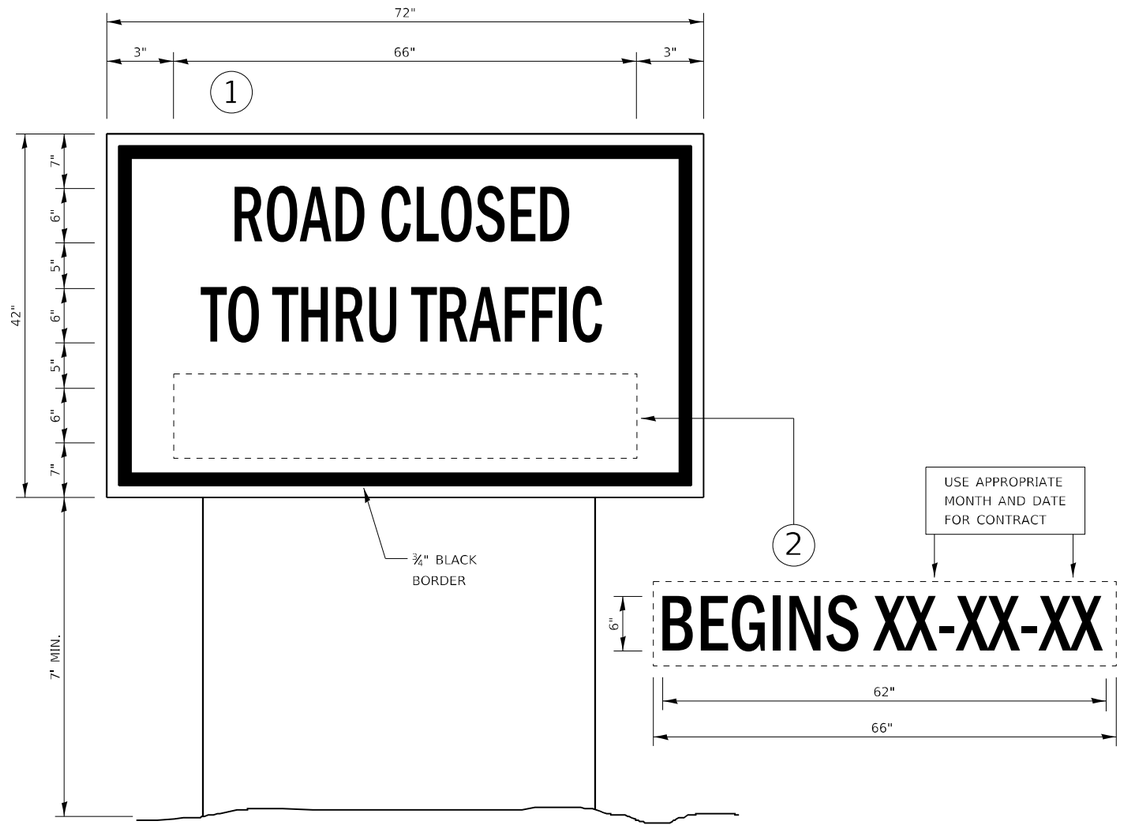
USER NAME = RCall	DESIGNED - RG	REVISED -	
	DRAWN - CS	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - JH	REVISED -	
PLOT DATE = 8/3/2021	DATE -	REVISED -	

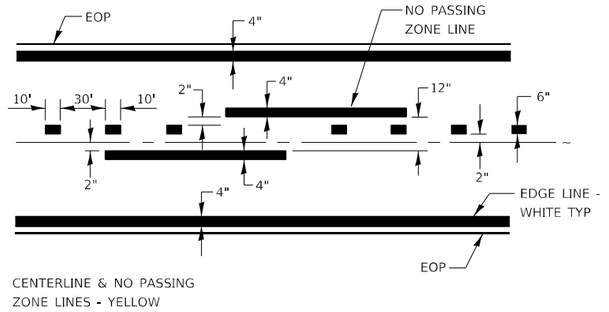
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 92 OVER HENNEPIN CANAL FEEDER
DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(135B-1)BR	BUREAU	84	63
		CONTRACT NO. 66H26		
	ILLINOIS	FED. AID PROJECT		





CENTERLINE & NO PASSING
ZONE LINES - YELLOW

PAVEMENT MARKING

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.

EFK•Moen
Civil Engineering Design

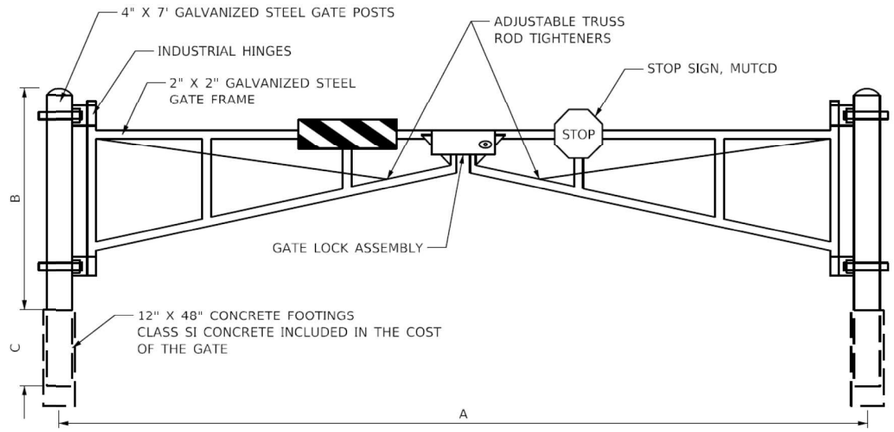
USER NAME = RCall	DESIGNED - RG	REVISED -
	DRAWN - CS	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - JH	REVISED -
PLOT DATE = 8/3/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 92 OVER HENNEPIN CANAL FEEDER
DETAILS

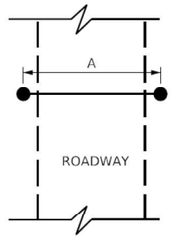
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(135B-1)BR	BUREAU	84	64
		CONTRACT NO. 66H26		
	ILLINOIS	FED. AID PROJECT		

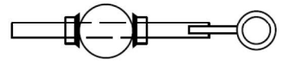


LOCATIONS	A	B	C
FIELD ENTRANCE AT STATION 228+40	27 FT	4 FT	3.5 FT

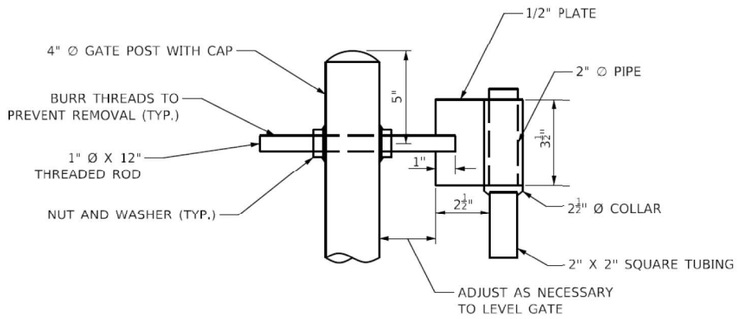
NOTES:
CONTRACTOR SHALL VERIFY DIMENSION "A" WITH ENGINEER PRIOR TO MANUFACTURING GATE



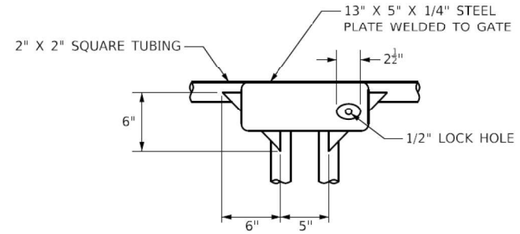
PLAN VIEW



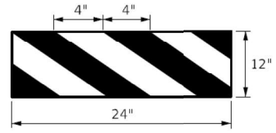
PLAN VIEW



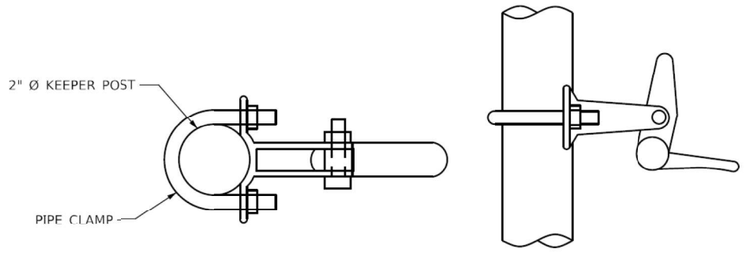
TOP GATE HINGE



GATE LOCK ASSEMBLY

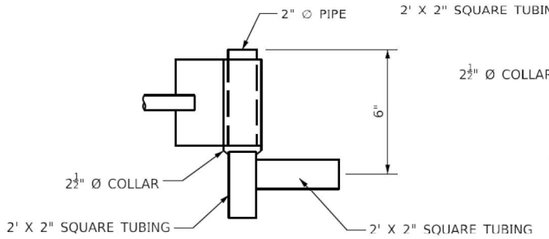


HORIZONTAL PANEL DETAIL

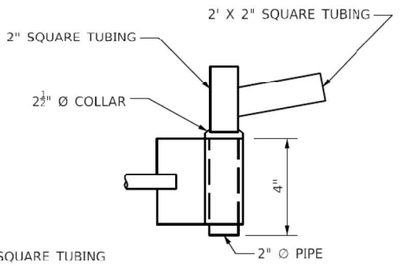


PLAN VIEW **SIDE VIEW**

AUTOMATIC GATE KEEPER



DETAIL AT TOP HINGE



DETAIL AT BOTTOM HINGE

GATE DETAILS

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Civil Engineering Design

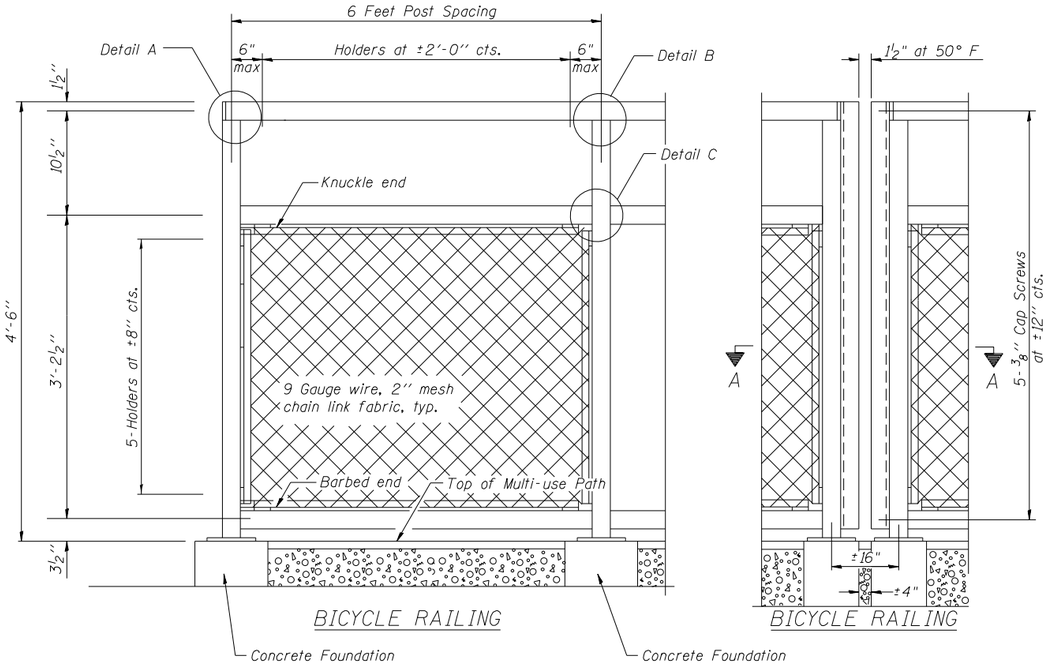
USER NAME = RCall	DESIGNED - RG	REVISED -	
	DRAWN - CS	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - JH	REVISED -	
PLOT DATE = 8/3/2021	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 92 OVER HENNEPIN CANAL FEEDER
GATE DETAIL

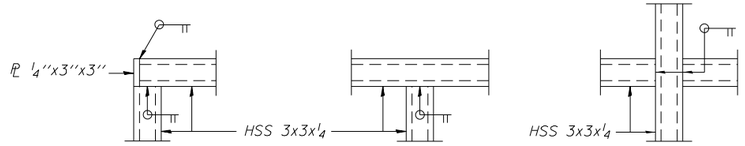
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(135B-1)BR	BUREAU	84	65
		CONTRACT NO. 66H26		
	ILLINOIS	FED. AID PROJECT		



BICYCLE RAILING

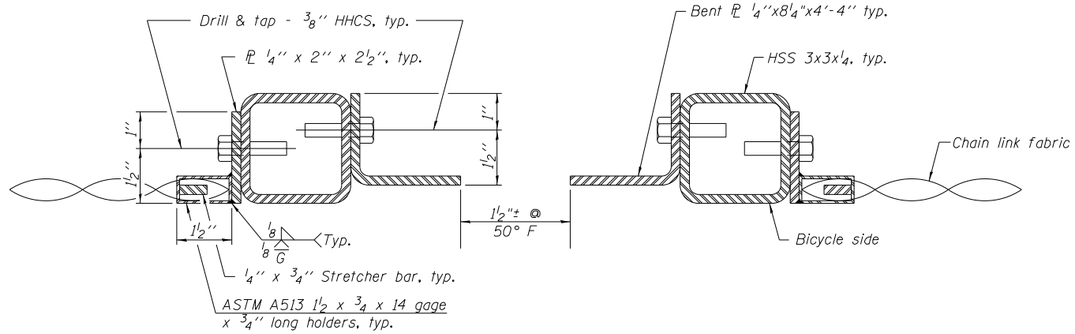
BICYCLE RAILING



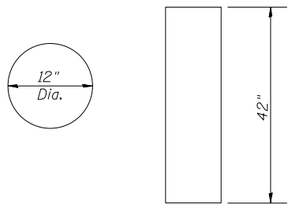
DETAIL A DETAIL B DETAIL C

Notes:

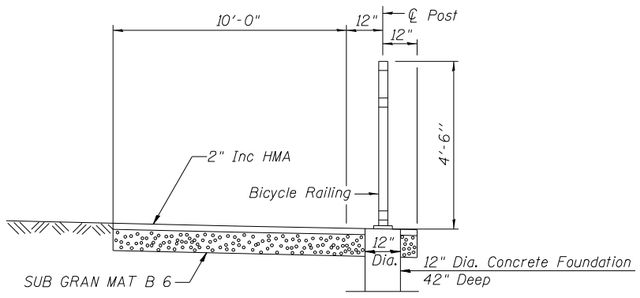
1. Field verify joint locations prior to fabricating.
2. All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.
3. All labor, equipment and materials necessary to furnish and install the concrete faundations for the Bicycle Railing posts shall be included in the contract unit price for BICYCLE RAILING.



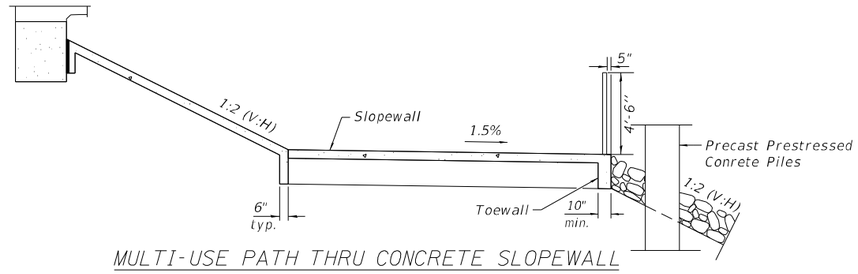
SECTION A-A



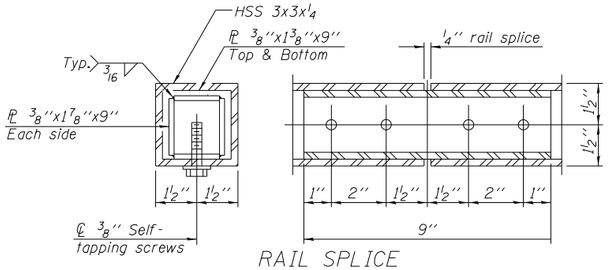
CONCRETE FOUNDATION DETAIL



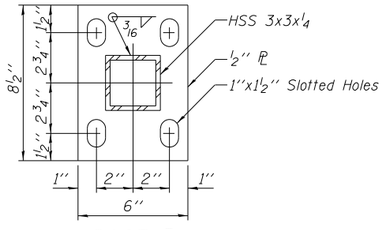
SECTION THRU MULTI-USE PATH



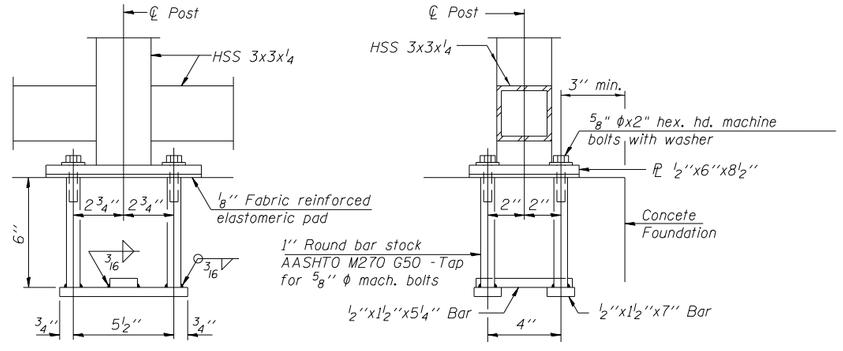
MULTI-USE PATH THRU CONCRETE SLOPEWALL



RAIL SPLICE



BASE ℄



ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting ⅝" ϕ anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

MODEL: Default
FILE NAME: Z:\2002\7.09 IDOT D3 PTB 194-027 W09 IL 92 over Hennepin Can\Feeder\DGN\Design\Preliminary\sheets\D366H26-sht-d3details.dgn

EFK•Moen Civil Engineering Design

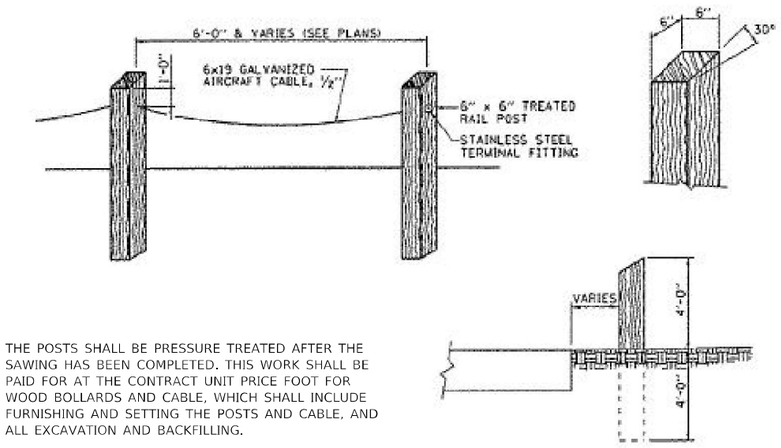
USER NAME = RGall	DESIGNED - RG	REVISED -
	DRAWN - CS	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - JH	REVISED -
PLOT DATE = 8/3/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 92 OVER HENNEPIN CANAL FEEDER
BICYCLE RAILING DETAILS

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

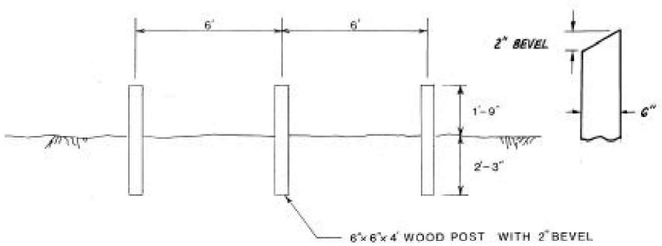
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(135B-1)BR	BUREAU	84	66
		CONTRACT NO. 66H26		
	ILLINOIS	FED. AID PROJECT		



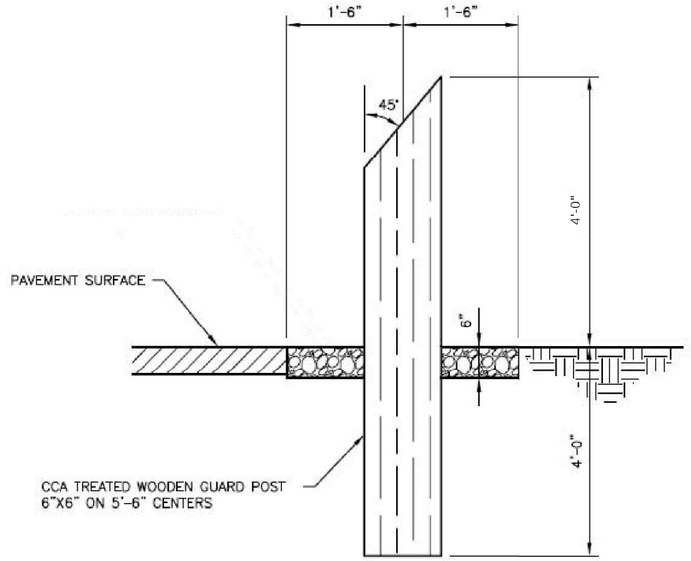
THE POSTS SHALL BE PRESSURE TREATED AFTER THE SAWING HAS BEEN COMPLETED. THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOOT FOR WOOD BOLLARDS AND CABLE, WHICH SHALL INCLUDE FURNISHING AND SETTING THE POSTS AND CABLE, AND ALL EXCAVATION AND BACKFILLING.

WOOD BOLLARDS AND CABLE

(VEHICLE CONTROL BOLLARDS)



WOOD POST DETAILS



NOTE:

3' AGGREGATE SHOULDERS, TYPE B, SHALL BE CONSTRUCTED A UNIFORM 6" THICK AT GUARD POST LOCATIONS.

B WOOD BOLLARD

NOT TO SCALE

MODEL: Default
FILE NAME: Z:\2002\7.09 IDOT D3 PTB 194-027 W09 IL 92 over Hennepin Canal Feeder\DGN\Design\Preliminary\sheets\D366H26-pht-D3details.dgn

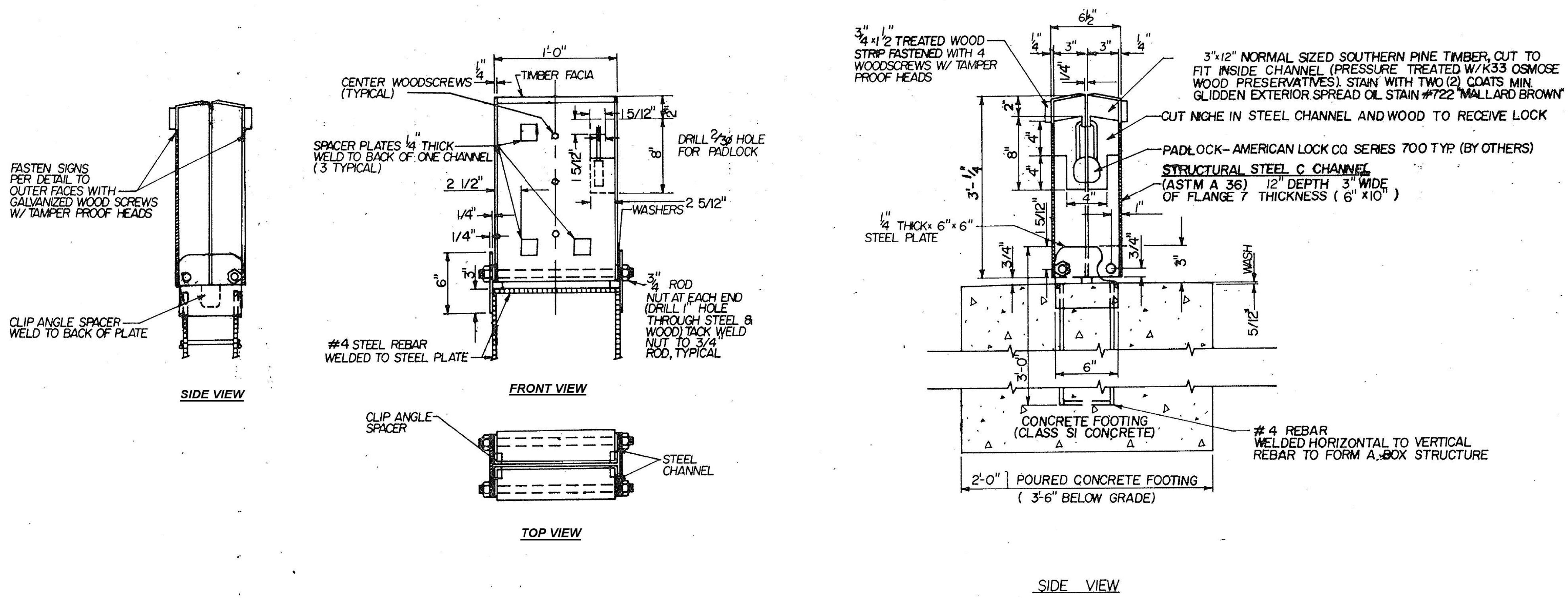
EFK•Moen Civil Engineering Design	USER NAME = RCall	DESIGNED - RG	REVISED -
		DRAWN - CS	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - JH	REVISED -
	PLOT DATE = 8/3/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 92 OVER HENNEPIN CANAL FEEDER
WOOD BOLLARDS AND CABLE DETAIL

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(135B-1)BR	BUREAU	84	67
		CONTRACT NO. 66H26		
	ILLINOIS	FED. AID PROJECT		

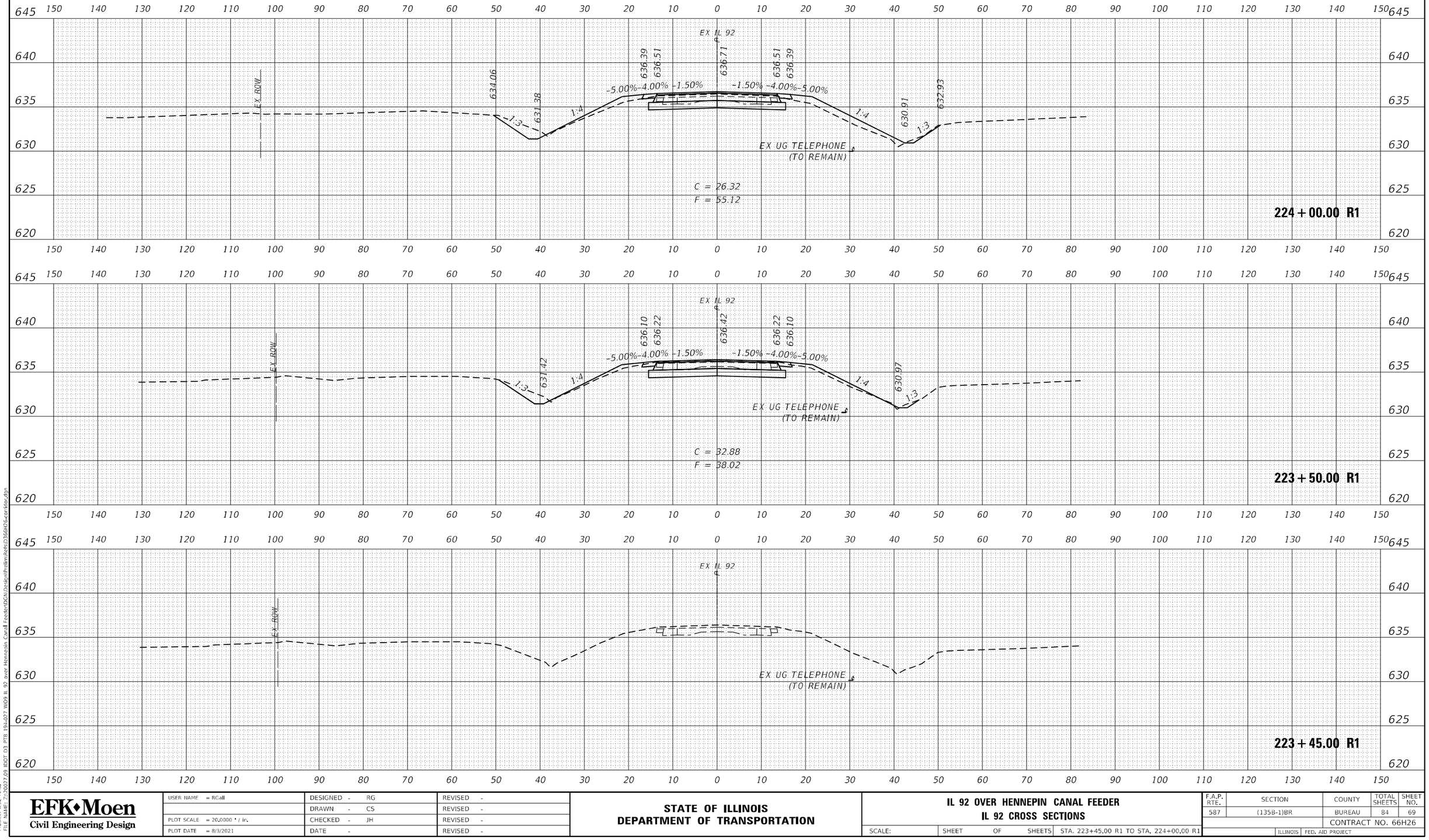


DROP BOLLARD DETAIL

NOT TO SCALE

EFK•Moen Civil Engineering Design	USER NAME = RGall	DESIGNED - RG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 92 OVER HENNEPIN CANAL FEEDER DROP BOLLARD DETAIL
		DRAWN - CS	REVISED -		
	PLOT SCALE = 100.0000 ' / in.	CHECKED - JH	REVISED -		
	PLOT DATE = 8/3/2021	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(135B-1)BR	BUREAU	84	68
		CONTRACT NO. 66H26		
	ILLINOIS	FED. AID PROJECT		



MODEL: IL92 Final
FILE NAME: Z:\20027.09 IDOT D3 PTB 194-027 WO9 IL 92 over Hennepin Canal Feeder\DGN\Design\Prelim\Refs\D366H26-cor166r.dgn

EFK•Moen
Civil Engineering Design

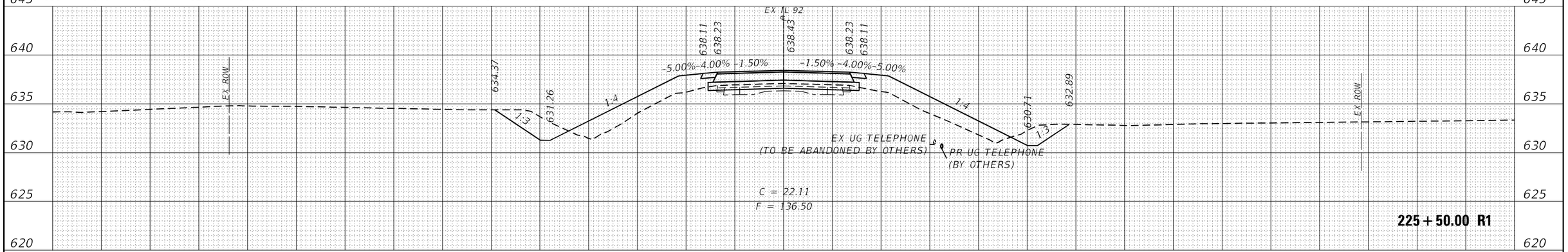
USER NAME = RCall	DESIGNED - RG	REVISED -
	DRAWN - CS	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - JH	REVISED -
PLOT DATE = 8/3/2021	DATE -	REVISED -

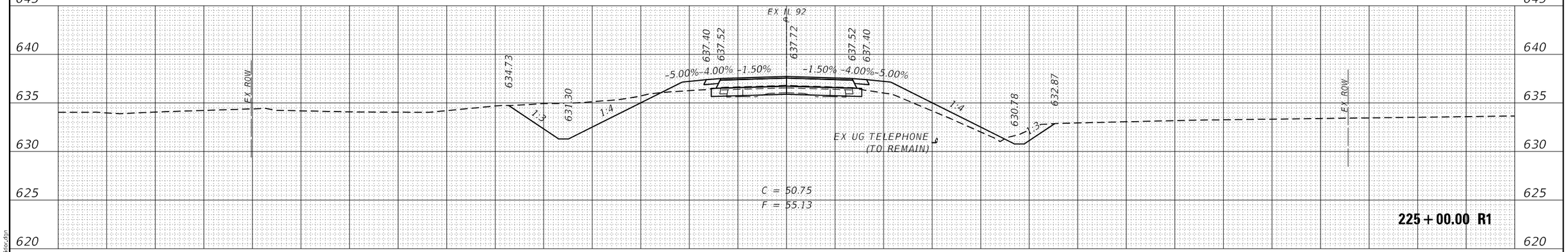
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

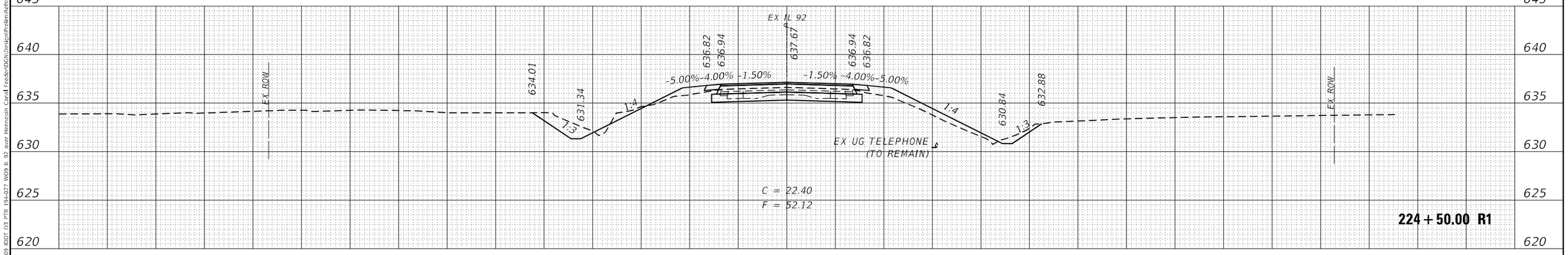
IL 92 OVER HENNEPIN CANAL FEEDER
IL 92 CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 223+45.00 R1 TO STA. 224+00.00 R1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(135B-1)BR	BUREAU	84	69
		CONTRACT NO. 66H26		
	ILLINOIS	FED. AID PROJECT		







MODEL: IL 92 Final
FILE NAME: c:\20027.09 IDOT D3 PTB 194-027 W09 IL 92 over Hennepin Canal Feeder\DGN\Design\Prelim\Rets\0366H26-corridor.dgn

EFK•Moen
Civil Engineering Design

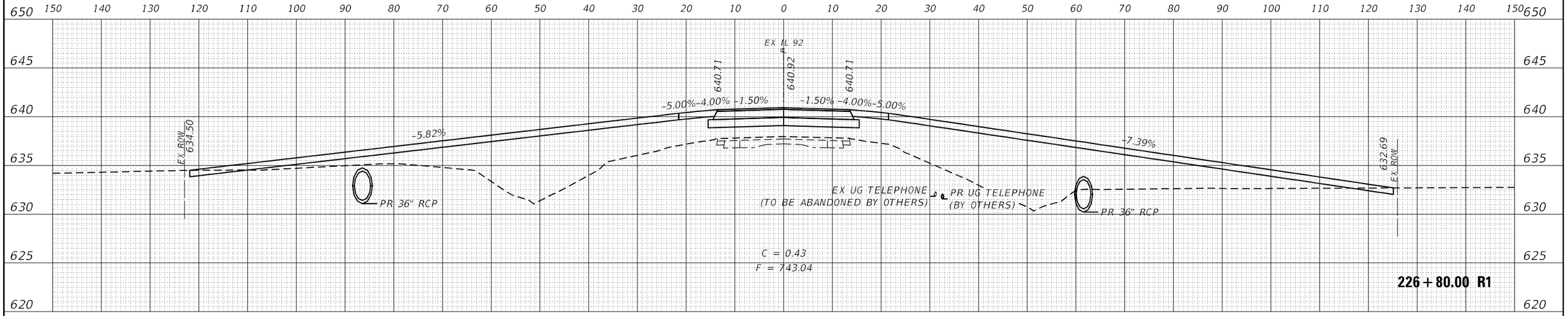
USER NAME = RGall	DESIGNED - RG	REVISED -
	DRAWN - CS	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - JH	REVISED -
PLOT DATE = 8/3/2021	DATE -	REVISED -

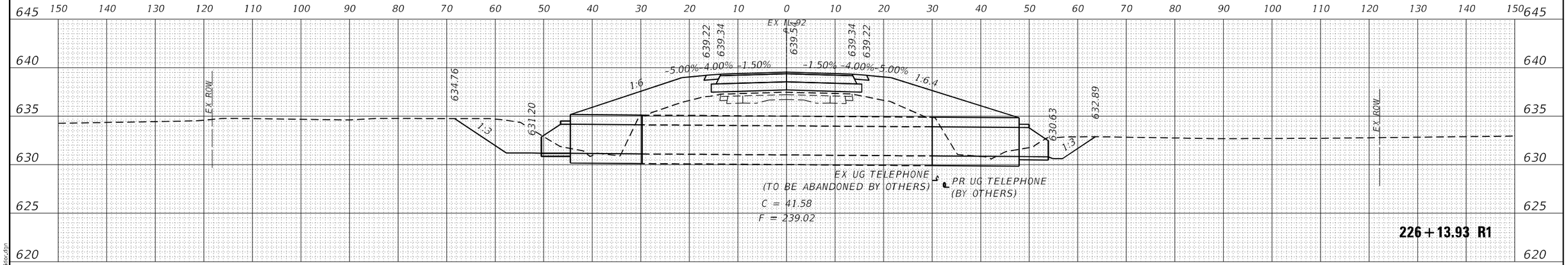
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

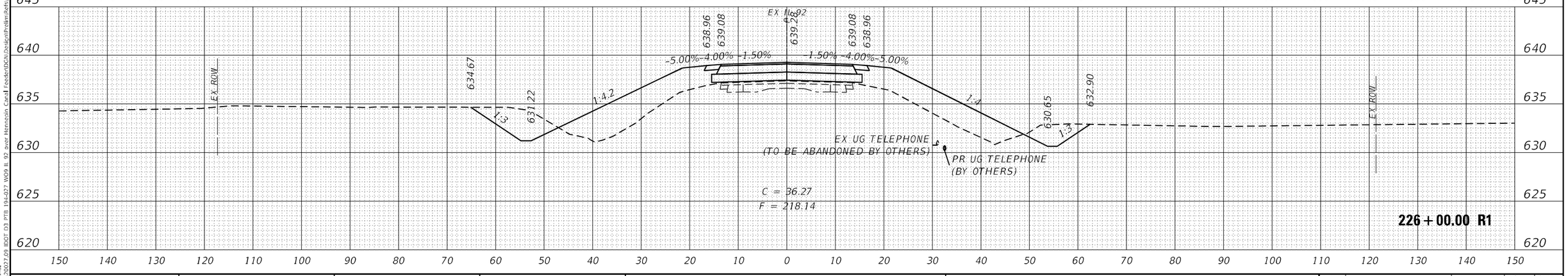
IL 92 OVER HENNEPIN CANAL FEEDER
IL 92 CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 224+50.00 R1 TO STA. 225+50.00 R1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(1358-1)BR	BUREAU	84	70
		CONTRACT NO. 66H26		
	ILLINOIS FED. AID PROJECT			







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EFK•Moen
Civil Engineering Design

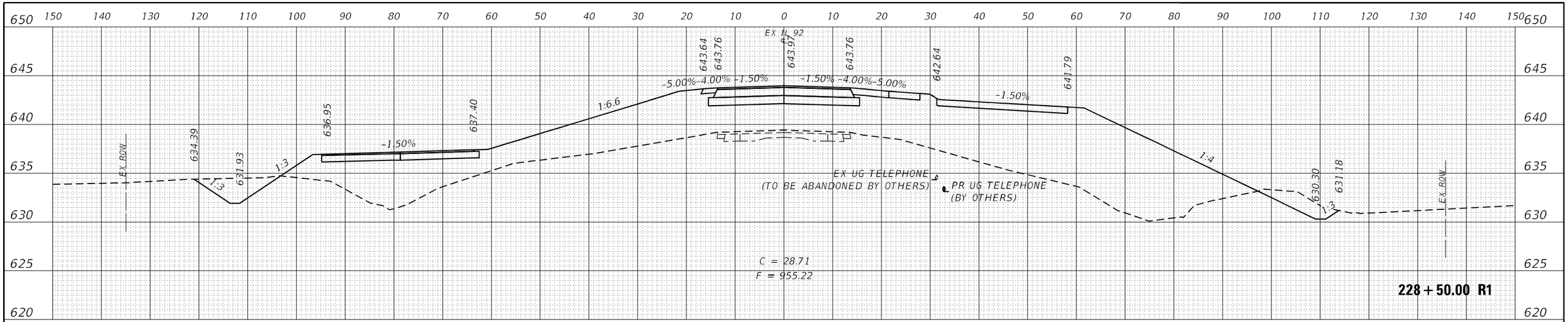
USER NAME = RCall	DESIGNED - RG	REVISED -
	DRAWN - CS	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - JH	REVISED -
PLOT DATE = 8/3/2021	DATE -	REVISED -

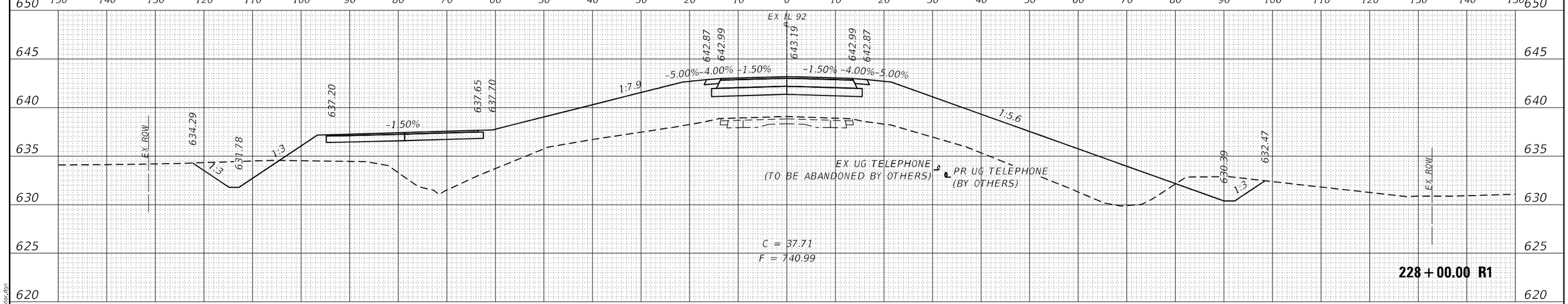
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

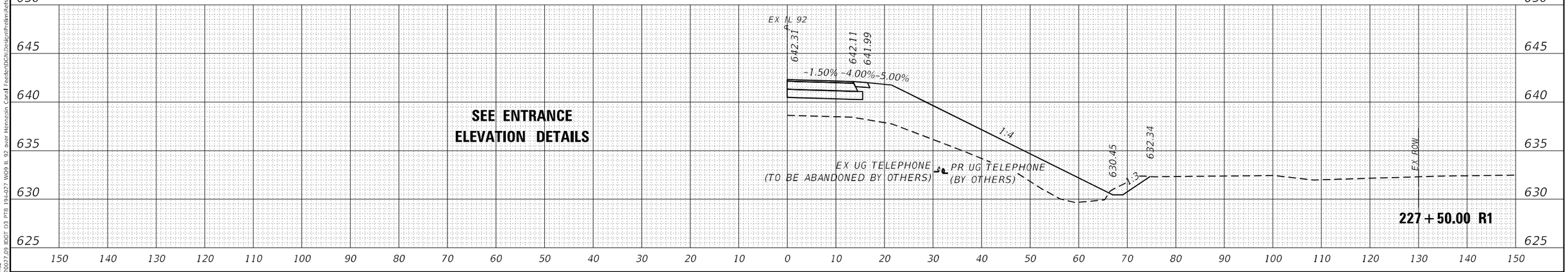
IL 92 OVER HENNEPIN CANAL FEEDER
IL 92 CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 226+00.00 R1 TO STA. 226+80.00 R1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(135B-1)BR	BUREAU	84	71
		CONTRACT NO. 66H26		
	ILLINOIS	FED. AID PROJECT		







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EFK•Moen
Civil Engineering Design

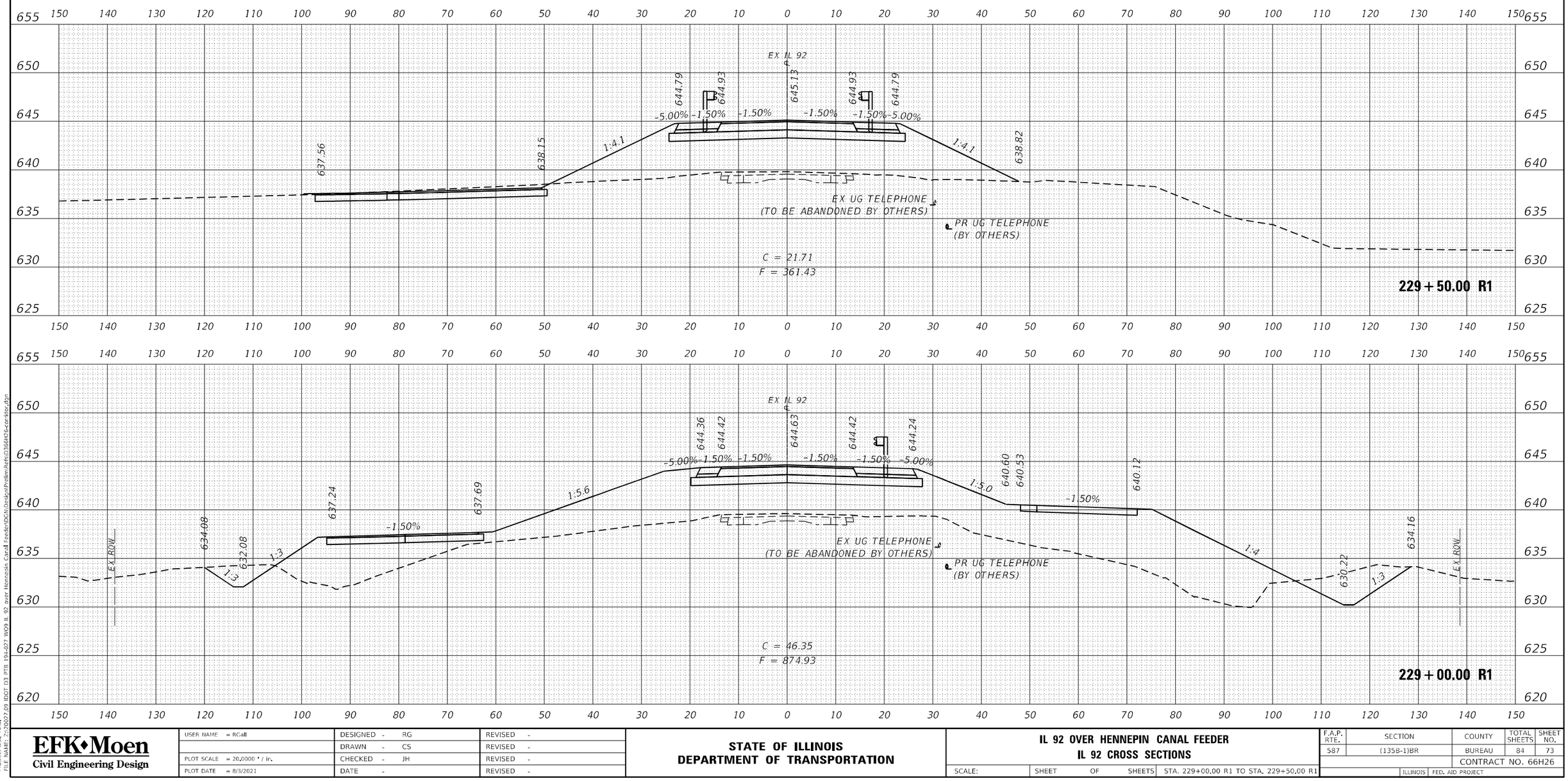
USER NAME = RGall	DESIGNED - RG	REVISED -
	DRAWN - CS	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - JH	REVISED -
PLOT DATE = 8/3/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 92 OVER HENNEPIN CANAL FEEDER
IL 92 CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 227+50.00 R1 TO STA. 228+50.00 R1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(1358-1)BR	BUREAU	84	72
		CONTRACT NO. 66H26		
	ILLINOIS	FED. AID PROJECT		



MODEL: IL92 Final
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EFK•Moen
Civil Engineering Design

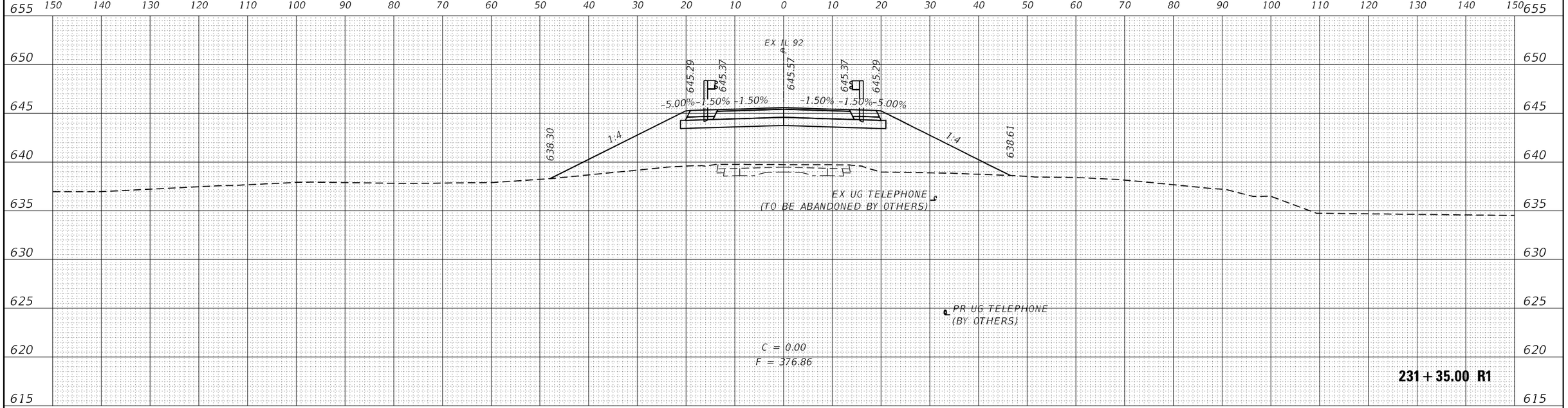
USER NAME = RCall	DESIGNED - RG	REVISED -
	DRAWN - CS	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - JH	REVISED -
PLOT DATE = 8/3/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

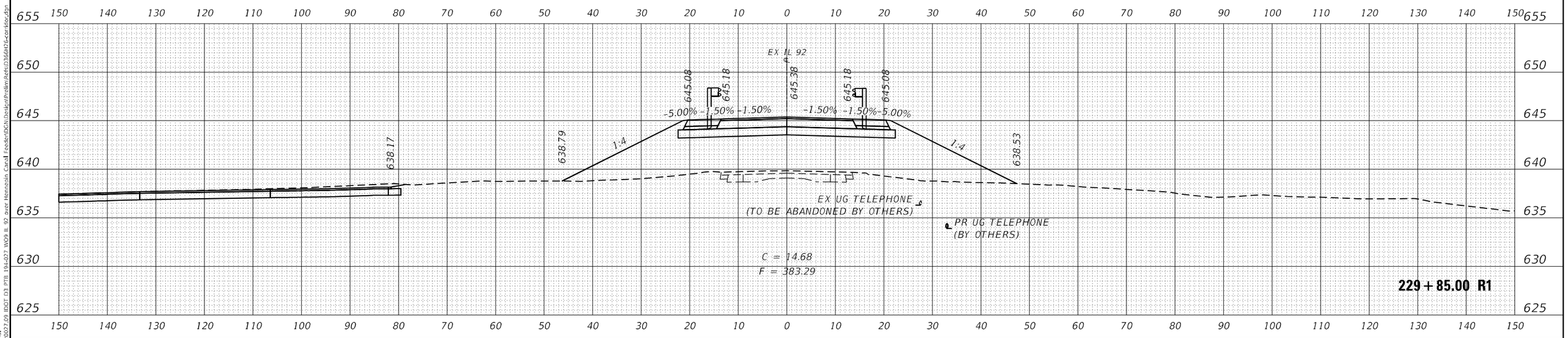
IL 92 OVER HENNEPIN CANAL FEEDER
IL 92 CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 229+00.00 R1 TO STA. 229+50.00 R1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(135B-1)BR	BUREAU	84	73
		CONTRACT NO. 66H26		
		ILLINOIS	FED. AID PROJECT	



BRIDGE SECTIONS OMITTED
SEE STRUCTURE PLANS



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EFK•Moen
Civil Engineering Design

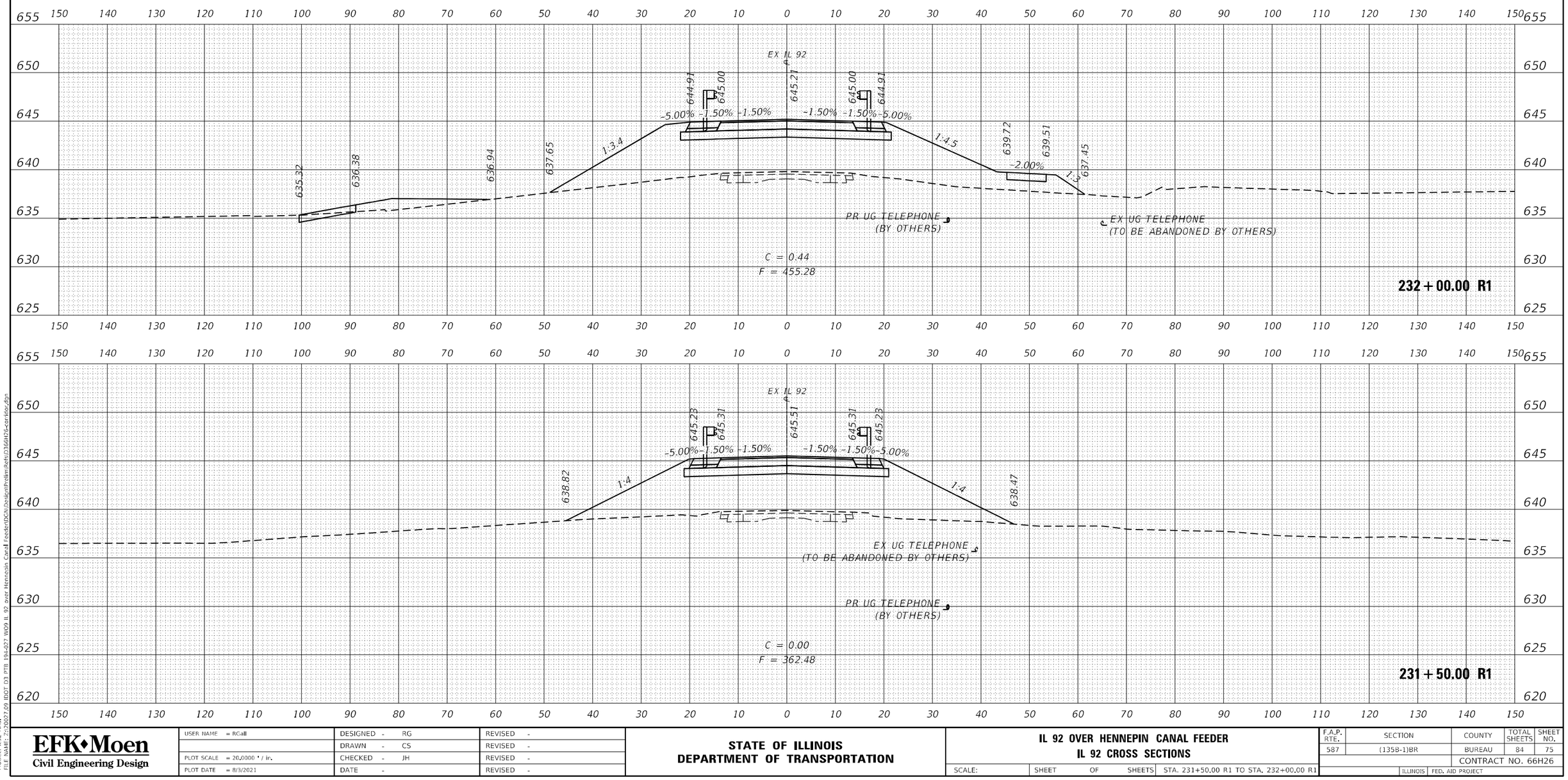
USER NAME = RGall	DESIGNED - RG	REVISED -
	DRAWN - CS	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - JH	REVISED -
PLOT DATE = 8/3/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 92 OVER HENNEPIN CANAL FEEDER
IL 92 CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 229+85.00 R1 TO STA. 231+50.00 R1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(135B-1)BR	BUREAU	84	74
		CONTRACT NO. 66H26		
		ILLINOIS	FED. AID PROJECT	



MODEL: IL92 Final
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EFK•Moen
Civil Engineering Design

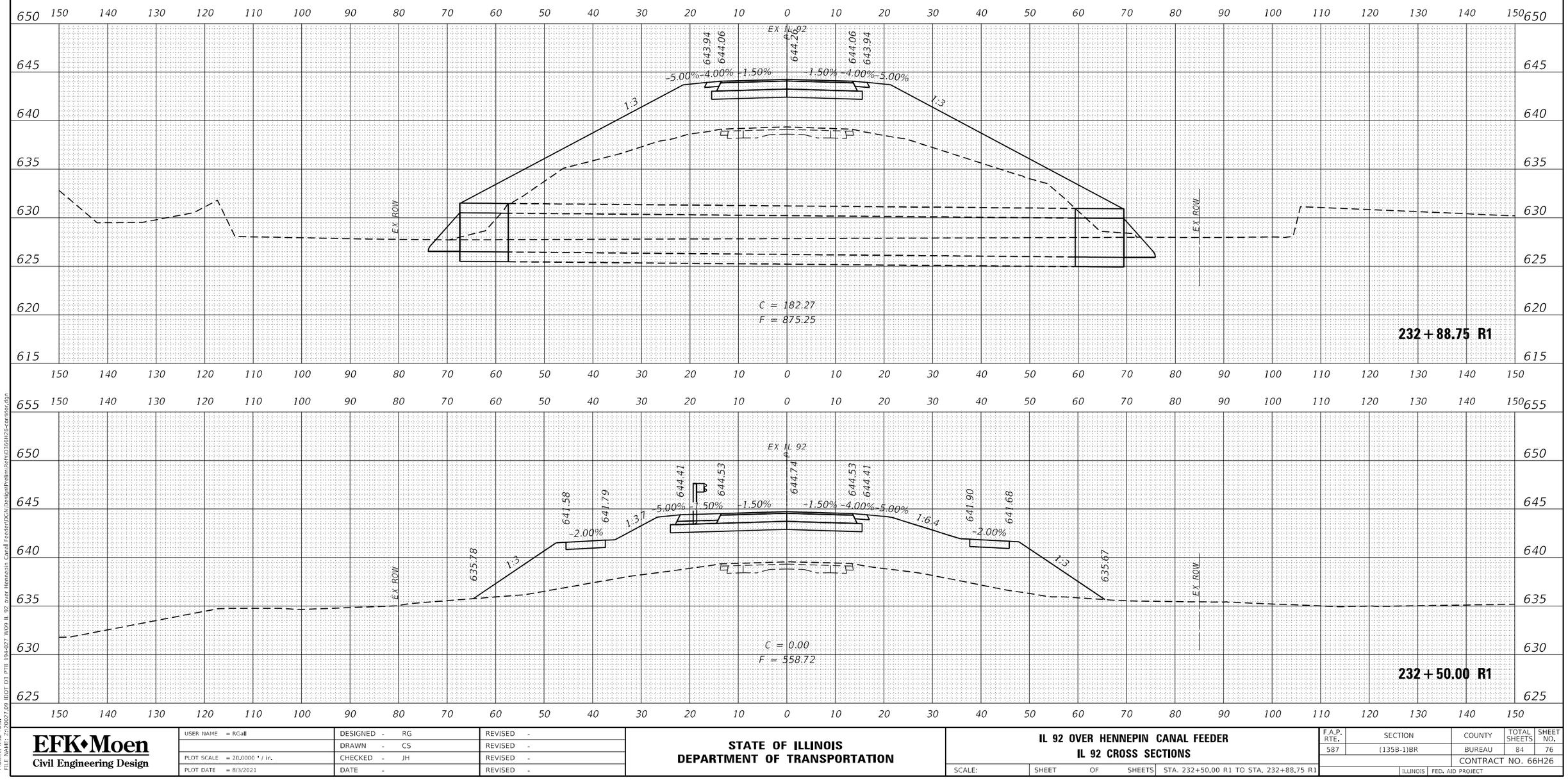
USER NAME = RGall	DESIGNED - RG	REVISED -
	DRAWN - CS	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - JH	REVISED -
PLOT DATE = 8/3/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 92 OVER HENNEPIN CANAL FEEDER
IL 92 CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 231+50.00 R1 TO STA. 232+00.00 R1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(135B-1)BR	BUREAU	84	75
		CONTRACT NO. 66H26		
		ILLINOIS	FED. AID PROJECT	



MODEL: IL92 Final
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EFK•Moen
Civil Engineering Design

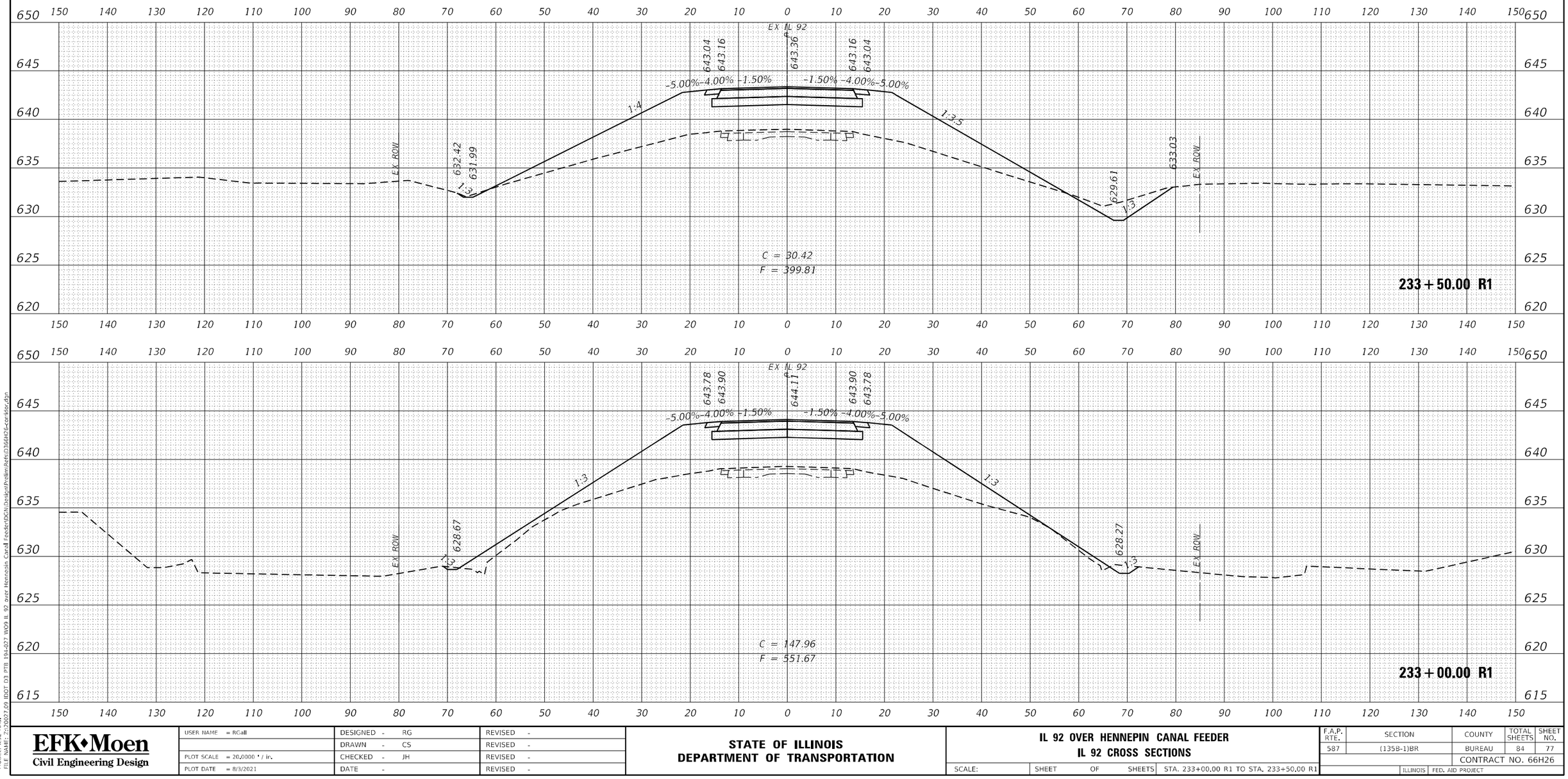
USER NAME = RGall	DESIGNED - RG	REVISED -
	DRAWN - CS	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - JH	REVISED -
PLOT DATE = 8/3/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 92 OVER HENNEPIN CANAL FEEDER
IL 92 CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 232+50.00 R1 TO STA. 232+88.75 R1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(135B-1)BR	BUREAU	84	76
		CONTRACT NO. 66H26		
		ILLINOIS	FED. AID PROJECT	



MODEL: IL92 Final
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EFK•Moen
Civil Engineering Design

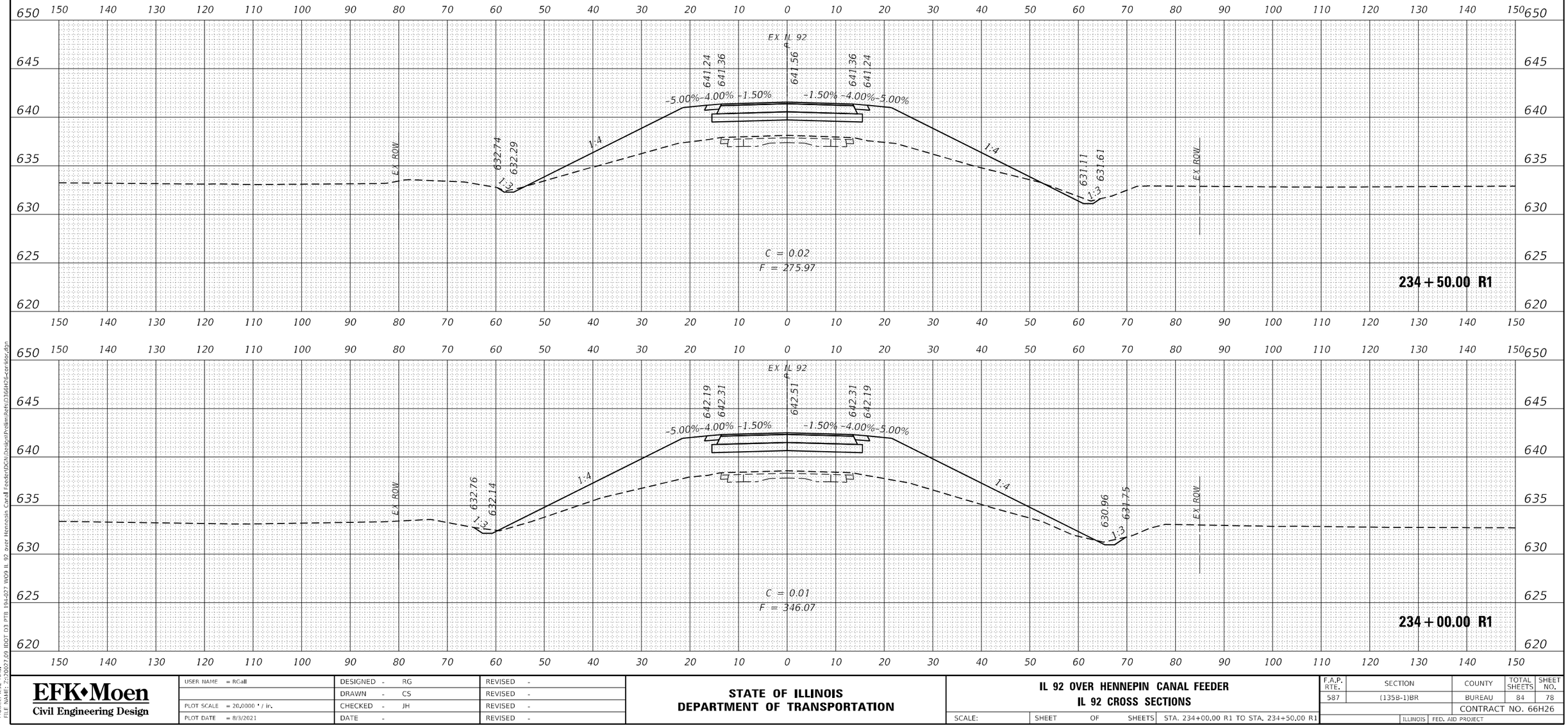
USER NAME = RCall	DESIGNED - RG	REVISED -
	DRAWN - CS	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - JH	REVISED -
PLOT DATE = 8/3/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 92 OVER HENNEPIN CANAL FEEDER
IL 92 CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 233+00.00 R1 TO STA. 233+50.00 R1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(135B-1)BR	BUREAU	84	77
		CONTRACT NO. 66H26		
		ILLINOIS	FED. AID PROJECT	



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EFK•Moen
Civil Engineering Design

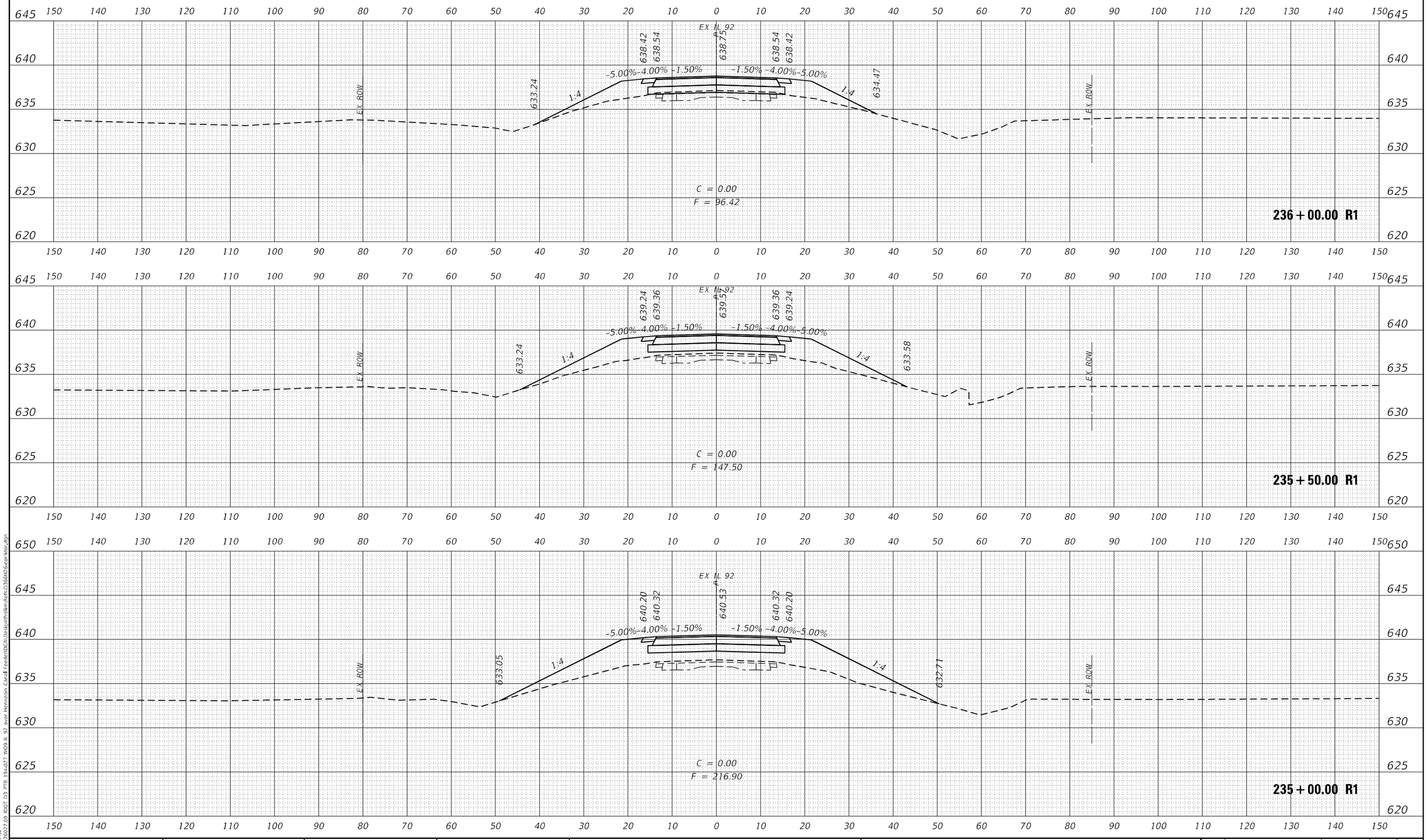
USER NAME = RCall	DESIGNED - RG	REVISED -
	DRAWN - CS	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - JH	REVISED -
PLOT DATE = 8/3/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 92 OVER HENNEPIN CANAL FEEDER
IL 92 CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 234+00.00 R1 TO STA. 234+50.00 R1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(135B-1)BR	BUREAU	84	78
		CONTRACT NO. 66H26		
		ILLINOIS	FED. AID PROJECT	



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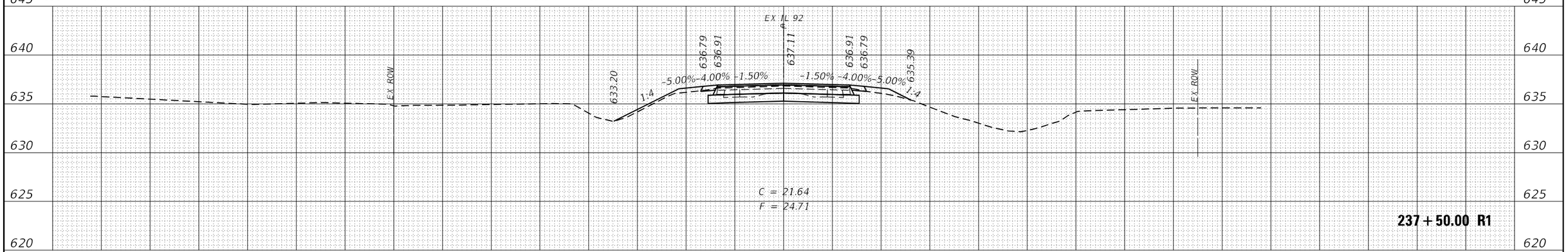
EFK•Moen Civil Engineering Design	USER NAME = RCall	DESIGNED - RG	REVISED -
		DRAWN - CS	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - JH	REVISED -
	PLOT DATE = 8/3/2021	DATE -	REVISED -

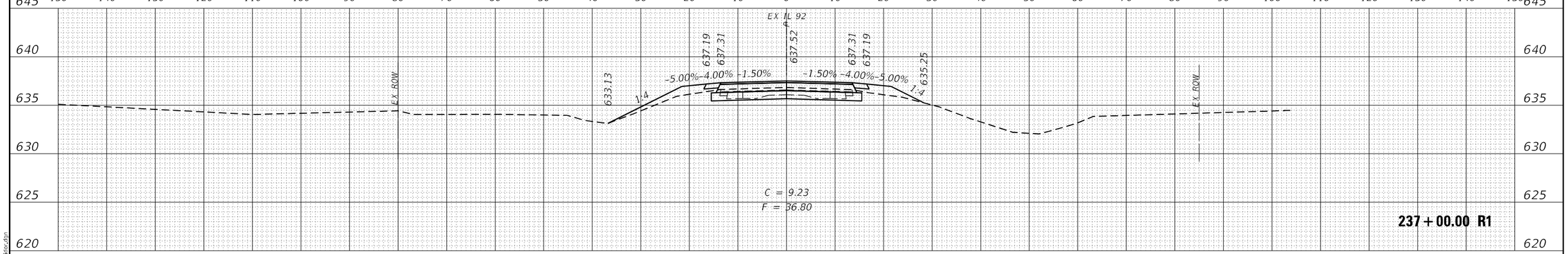
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

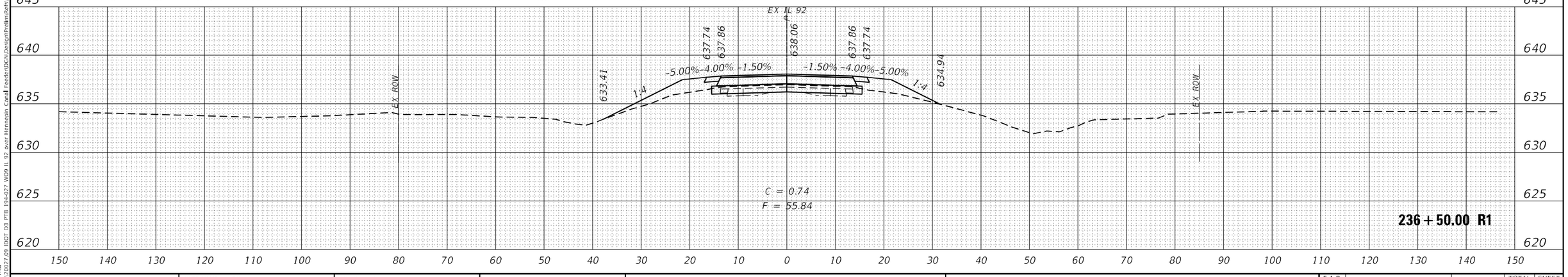
IL 92 OVER HENNEPIN CANAL FEEDER
IL 92 CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 235+00.00 R1 TO STA. 236+00.00 R1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(135B-1)BR	BUREAU	84	79
		CONTRACT NO. 66H26		
		ILLINOIS	FED. AID PROJECT	







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EFK•Moen
Civil Engineering Design

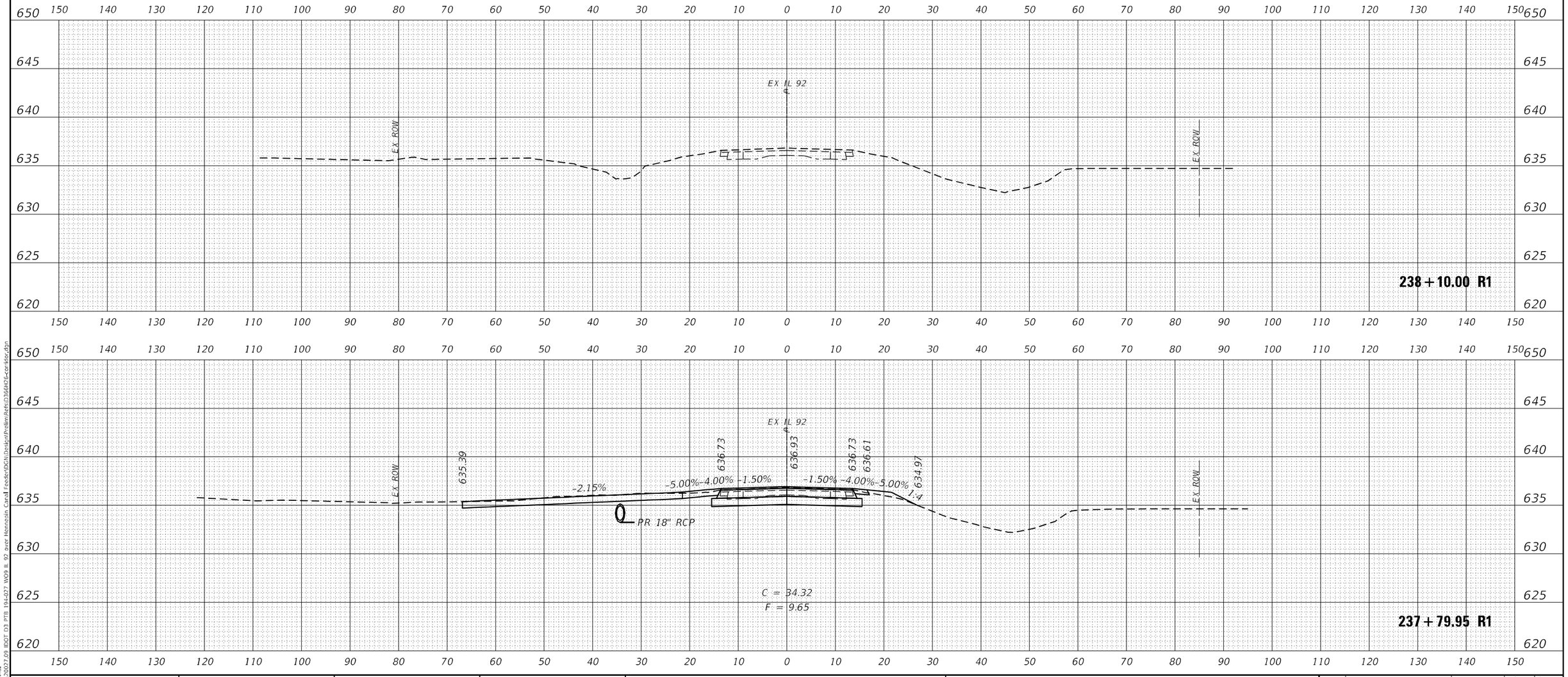
USER NAME = RGall	DESIGNED - RG	REVISED -
	DRAWN - CS	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - JH	REVISED -
PLOT DATE = 8/3/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 92 OVER HENNEPIN CANAL FEEDER
IL 92 CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 236+50.00 R1 TO STA. 237+50.00 R1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(135B-1)BR	BUREAU	84	80
		CONTRACT NO. 66H26		
	ILLINOIS	FED. AID PROJECT		



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EFK•Moen
Civil Engineering Design

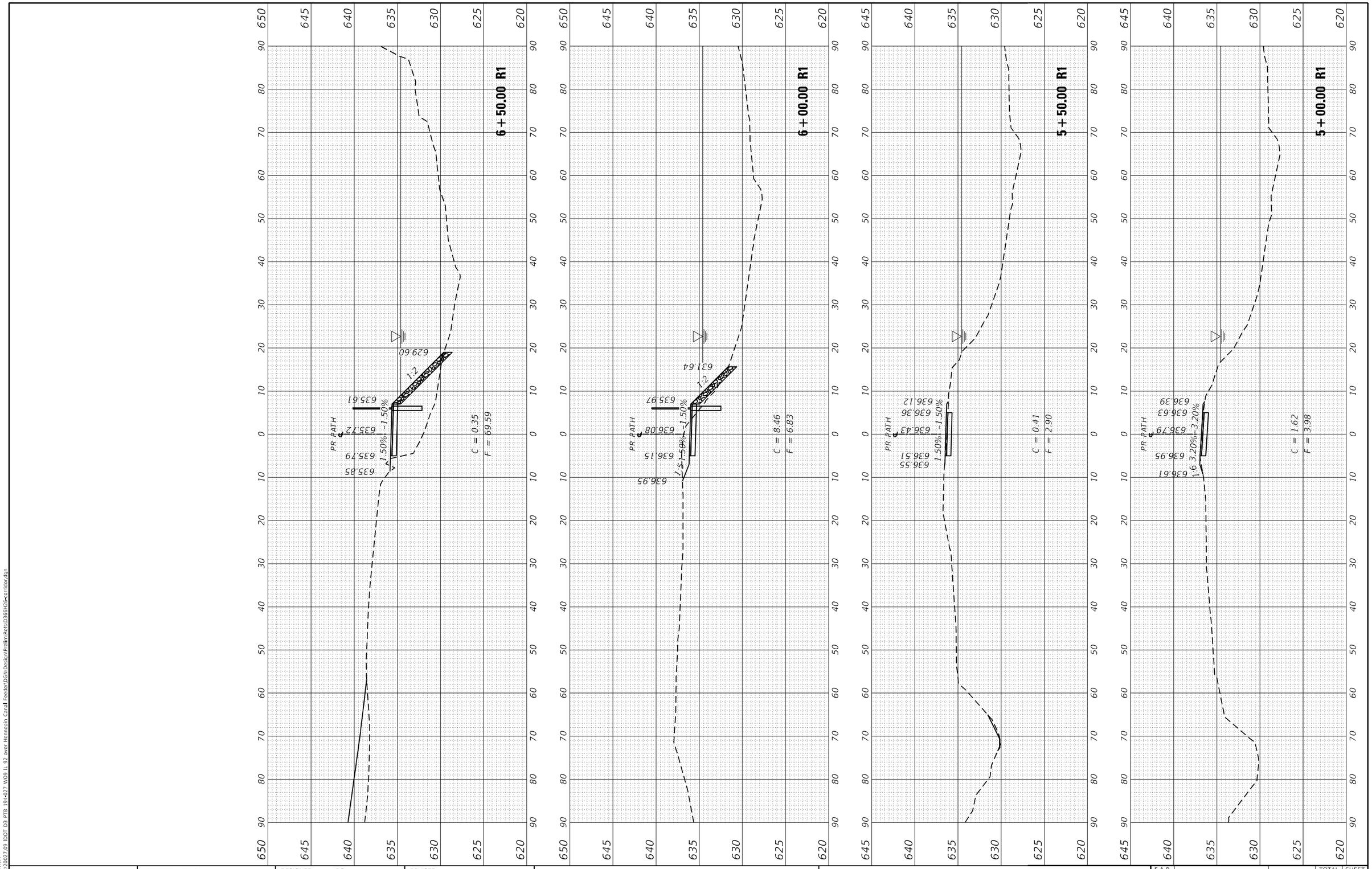
USER NAME = RCall	DESIGNED - RG	REVISED -
	DRAWN - CS	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - JH	REVISED -
PLOT DATE = 8/3/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 92 OVER HENNEPIN CANAL FEEDER
IL 92 CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 237+79.95 R1 TO STA. 238+10.00 R1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(135B-1)BR	BUREAU	84	81
		CONTRACT NO. 66H26		
		ILLINOIS	FED. AID PROJECT	



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EFK•Moen
Civil Engineering Design

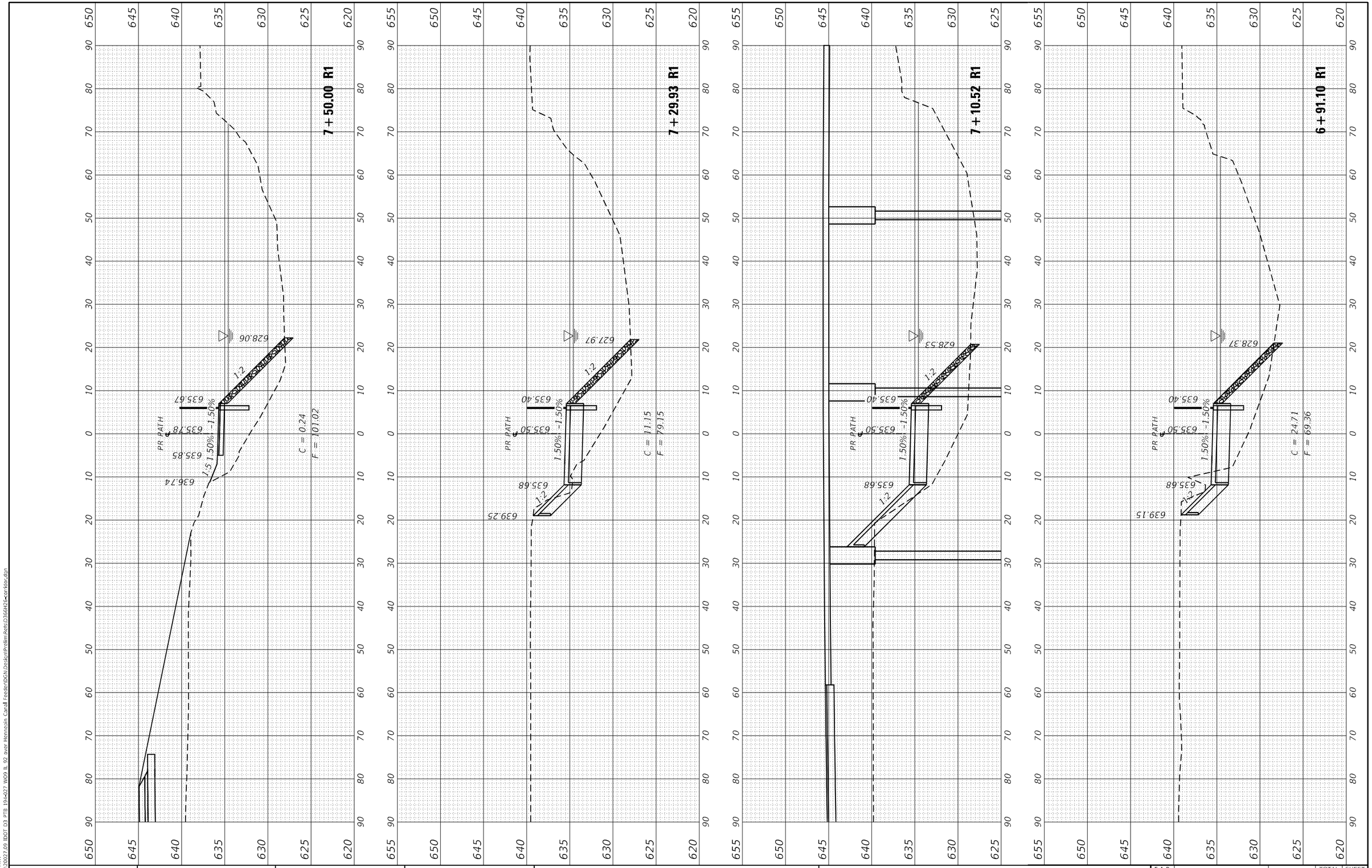
USER NAME = RCall	DESIGNED - RG	REVISED -
	DRAWN - CS	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - JH	REVISED -
PLOT DATE = 8/3/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 92 OVER HENNEPIN CANAL FEEDER
MULTI-USE PATH CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 5+00.00 R1 TO STA. 6+50.00 R1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(1358-1)BR	BUREAU	84	82
		CONTRACT NO. 66H26		
	ILLINOIS	FED. AID PROJECT		



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EFK•Moen
Civil Engineering Design

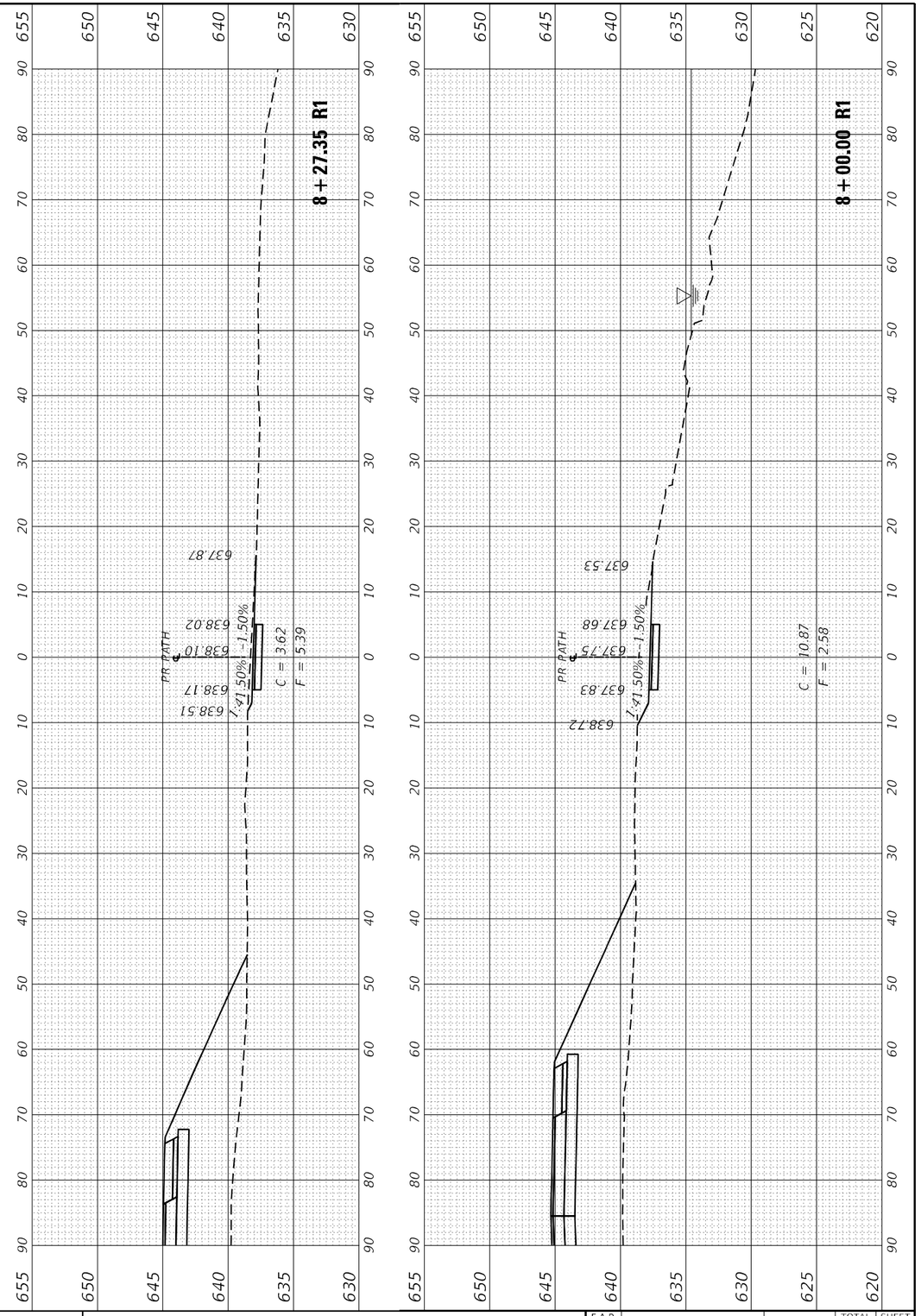
USER NAME = RCall	DESIGNED - RG	REVISED -	
	DRAWN - CS	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED - JH	REVISED -	
PLOT DATE = 8/3/2021	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 92 OVER HENNEPIN CANAL FEEDER
MULTI–USE PATH CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 6+91.10 R1 TO STA. 7+50.00 R1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(135B-1)BR	BUREAU	84	83
		CONTRACT NO. 66H26		
	ILLINOIS	FED. AID PROJECT		



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EFK•Moen
Civil Engineering Design

USER NAME = RCall	DESIGNED - RG	REVISED -
	DRAWN - CS	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - JH	REVISED -
PLOT DATE = 8/3/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 92 OVER HENNEPIN CANAL FEEDER
MULTI-USE PATH CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 8+00.00 R1 TO STA. 8+00.00 R1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
587	(1358-1)BR	BUREAU	84	84
		CONTRACT NO. 66H26		
	ILLINOIS FED. AID PROJECT			