

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	1
		ILLINOIS	CONTRACT NO. 64H57	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

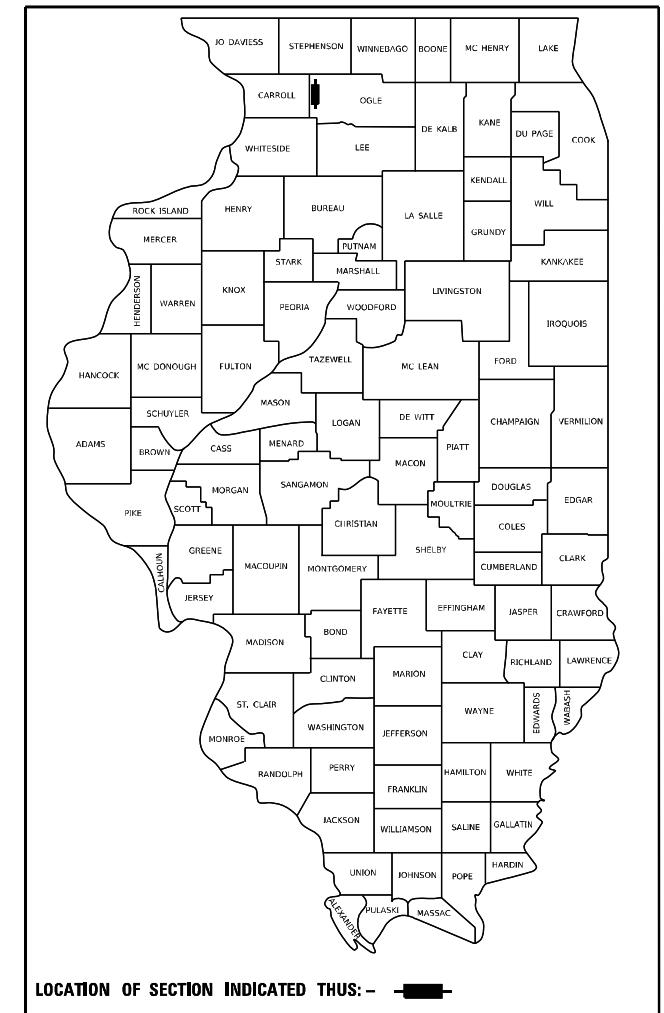
FOR LIST OF ILLINOIS DOT HIGHWAY STANDARDS, SEE SHEET NO. 2

PROPOSED HIGHWAY PLANS

FAS ROUTE 2079 (US 52)
SECTION 16BR-1
PROJECT HBFP-STP-K7L6(792)
BRIDGE REPLACEMENT OVER ELKHORN CREEK
OGLE COUNTY

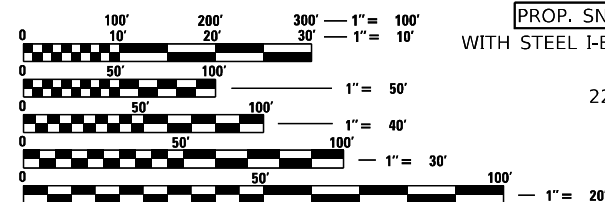
C-92-089-22

D-92-029-12



TOWNSHIP: BROOKVILLE
SECTION: 28

FUNCTIONAL CLASSIFICATION = MAJOR COLLECTOR
DESIGN SPEED = 60 MPH
POSTED SPEED = 55 MPH
DESIGN ADT = 890 (2042)
PV=605, SU=95, MU=120
% TRUCKS = 26.2%



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

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

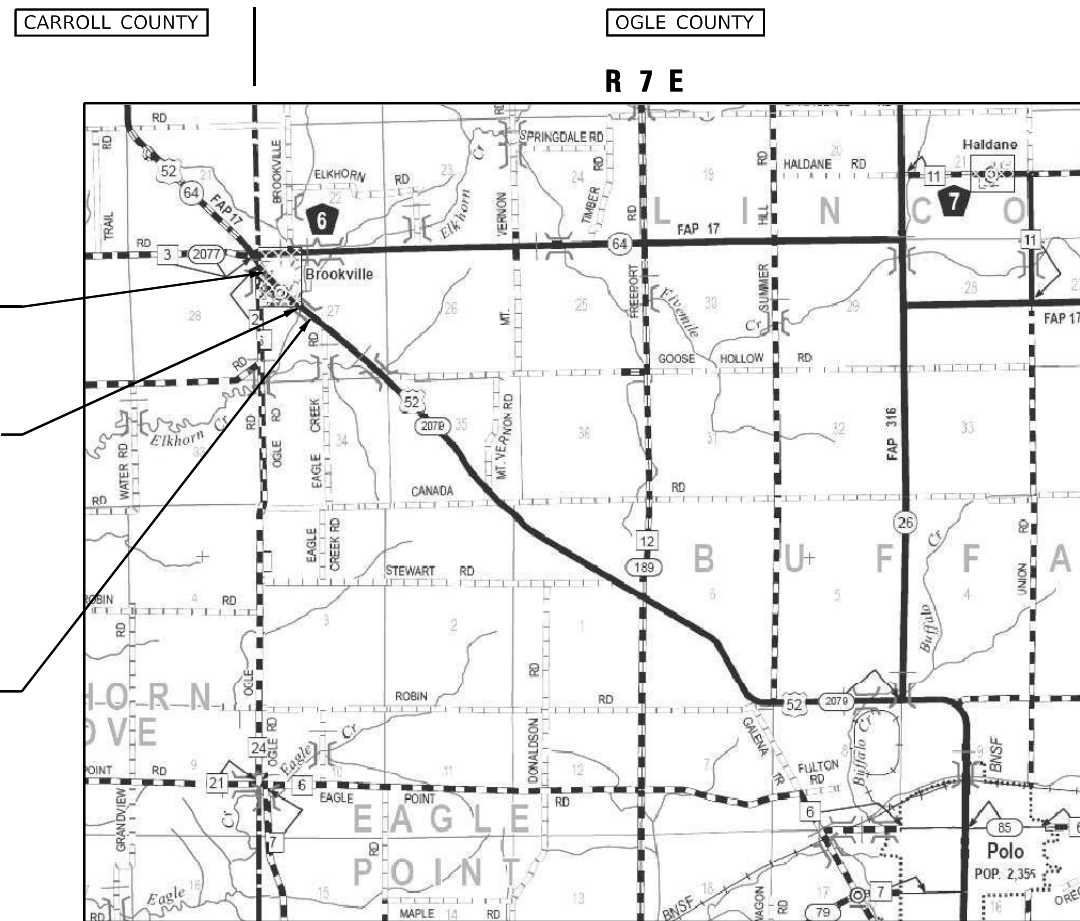
PROJECT MANAGER CHRIS CONDERMAN - 815-284-5955
PROJECT ENGINEER CHAD SPREEMAN - 815-284-5934

CONTRACT NO. 64H57

PROJECT BEGINS
U.S. ROUTE 52
STA. 12+00.00

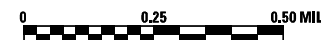
EXIST. SN 071-0070
PROP. SN 097-0098 - 3 SPAN RC DECK,
WITH STEEL I-BEAMS, STUB ABUTMENTS AND
STEM PIERS WITH CAP,
229'-5.25" BK TO BK ABUTMENT
PR. ϕ STA. 25+38.57

PROJECT ENDS
U.S. ROUTE 52
STA. 29+64.00



LOCATION MAP

GROSS LENGTH = 1764.0 FT. = 0.334 MILE
NET LENGTH = 1764.0 FT. = 0.334 MILE



Stanley J. Fearday
DATE: 6-21-2022
LICENSE EXPIRES 11-30-2023
THE UPCHURCH GROUP, INC.
MATTOON, ILLINOIS 61938

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED 06/24 20 22
Thomas Almond
REGIONAL ENGINEER

October 14, 2022
Scott A. Etkin
ENGINEER OF DESIGN AND ENVIRONMENT

October 14, 2022
Stephen M. Smith
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	OGLE COUNTY	OGLE COUNTY
				80% FEDERAL / 20% STATE	80% FEDERAL / 20% STATE
				CONSTRUCTION CODE	CONSTRUCTION CODE
				ROADWAY	BRIDGE
				0004	0010
					S.N. 071-0098
25100125	MULCH, METHOD 3	ACRE	5.00	5.00	
25100630	EROSION CONTROL BLANKET	SQ YD	24200	24200	
25100900	TURF REINFORCEMENT MAT	SQ YD	147	147	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	500	500	
28000305	TEMPORARY DITCH CHECKS	FOOT	376	376	
28000400	PERIMETER EROSION BARRIER	FOOT	260	260	
28000500	INLET AND PIPE PROTECTION	EACH	5	5	
28100107	STONE RIPRAP, CLASS A4	SQ YD	159	159	
28100109	STONE RIPRAP, CLASS A5	SQ YD	957		957
28200200	FILTER FABRIC	SQ YD	1061	159	902
35101400	AGGREGATE BASE COURSE, TYPE B	TON	793	793	
35600700	HOT-MIX ASPHALT BASE COURSE WIDENING, 6"	SQ YD	536	536	
40200100	AGGREGATE SURFACE COURSE, TYPE A	TON	173	173	
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	40	40	

* SPECIALTY ITEM

MODEL: P:\d\h\p\1\190-22\various PH 1 and 2 sub to BRNWO 6 US 52 over Elkhorn Creek 3119007-06\CAD Sheets\0264457-001.dwg
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The Upchurch Group
 architects engineers surveyors
 Professional Design Firm Corporation
 License No. 184-003401
 123 North 15th Street
 Mason, IL 61938
 Phone: 217.255.3177
 e-mail: upchurchgroup@upchurchgroup.com

USER NAME = Sta37	DESIGNED - SJF	REVISED -
TUG PROJECT NO. 3119007-06	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - SJF	REVISED -
PLOT DATE = 7/26/2022	DATE - JUNE 22, 2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 52 OVER ELKHORN CREEK
SUMMARY OF QUANTITIES

SCALE: 40.0000 ' / in. SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	5
CONTRACT NO. 64H57			ILLINOIS FED. AID PROJECT	

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				80% FEDERAL / 20% STATE	80% FEDERAL / 20% STATE
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				ROADWAY	BRIDGE
				0004	0010
					S.N. 071-0098
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	15835	15835	
40600370	LONGITUDINAL JOINT SEALANT	FOOT	1477	1477	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	514	514	
40600990	TEMPORARY RAMP	SQ YD	56	56	
40602965	HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N50	TON	352	352	
40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	382	382	
40800025	BITUMINOUS MATERIALS (PRIME COAT)	POUND	2571	2571	
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	224	224	
44000100	PAVEMENT REMOVAL	SQ YD	495	495	
44000300	CURB REMOVAL	FOOT	117	117	
44004250	PAVED SHOULDER REMOVAL	SQ YD	380	380	
48203018	HOT-MIX ASPHALT SHOULDERS, 5 1/4"	SQ YD	1368	1368	
48203100	HOT-MIX ASPHALT SHOULDERS	TON	201	201	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1

* SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 52 OVER ELKHORN CREEK
SUMMARY OF QUANTITIES

SCALE: 40.0000 ' / in. SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	6
CONTRACT NO. 64H57			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	OGLE COUNTY	
				80% FEDERAL / 20% STATE	80% FEDERAL / 20% STATE
				CONSTRUCTION CODE	
				ROADWAY	BRIDGE
				0004	0010
				S.N. 071-0098	
50200100	STRUCTURE EXCAVATION	CU YD	262		262
50200300	COFFERDAM EXCAVATION	CU YD	202		202
50201121	COFFERDAM (TYPE 2) (LOCATION - 1)	EACH	1		1
50300225	CONCRETE STRUCTURES	CU YD	164.7		164.7
50300255	CONCRETE SUPERSTRUCTURE	CU YD	304.3		304.3
50300260	BRIDGE DECK GROOVING	SQ YD	958		958
50300265	SEAL COAT CONCRETE	CU YD	50		50
50300300	PROTECTIVE COAT	SQ YD	1256		1256
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	94.8		94.8
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1		1
50500505	STUD SHEAR CONNECTORS	EACH	4752		4752
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	129010		129010
51201800	FURNISHING STEEL PILES HP14X73	FOOT	1520		1520
51202305	DRIVING PILES	FOOT	1520		1520

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 52 OVER ELKHORN CREEK
SUMMARY OF QUANTITIES

SCALE: 40.0000 ' / in SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	7
CONTRACT NO. 64H57			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	OGLE COUNTY	OGLE COUNTY
				80% FEDERAL / 20% STATE	80% FEDERAL / 20% STATE
				CONSTRUCTION CODE	CONSTRUCTION CODE
				ROADWAY	BRIDGE
				0004	0010
					S.N. 071-0098
51203800	TEST PILE STEEL HP14X73	EACH	4		4
51204650	PILE SHOES	EACH	32		32
51500100	NAME PLATES	EACH	1		1
52100520	ANCHOR BOLTS, 1"	EACH	48		48
54244405	FLUSH INLET BOX FOR MEDIAN, STANDARD 542546	EACH	1	1	
54260518	SLOPED METAL END SECTION, STANDARD 542411, 18", 1:6	EACH	2	2	
54261624	CONCRETE END SECTION, STANDARD 542001, 24", 1:6	EACH	1	1	
54261630	CONCRETE END SECTION, STANDARD 542001, 30", 1:6	EACH	2	2	
54261636	CONCRETE END SECTION, STANDARD 542001, 36", 1:6	EACH	2	2	
542A0235	PIPE CULVERTS, CLASS A, TYPE 1 30"	FOOT	45	45	
542A0241	PIPE CULVERTS, CLASS A, TYPE 1 36"	FOOT	45	45	
542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	72	72	
550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	174	174	
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	118		118

* SPECIALTY ITEM

MODEL: P:\d\h\p\...
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 FILE NAME: P:\C\w\h\...

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US ROUTE 52 OVER ELKHORN CREEK
SUMMARY OF QUANTITIES

SCALE: 40.0000 ' / in. SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	8
CONTRACT NO. 64H57			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	OGLE COUNTY	OGLE COUNTY
				80% FEDERAL / 20% STATE	80% FEDERAL / 20% STATE
				CONSTRUCTION CODE	CONSTRUCTION CODE
				ROADWAY	BRIDGE
				0004	0010
					S.N. 071-0098
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	74		74
60146304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	136		136
60218400	MANHOLE-, TYPE A, 4' DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1	
61133100	FIELD TILE JUNCTION VAULTS, 2' DIA.	EACH	2	2	
61133200	FIELD TILE JUNCTION VAULTS, 3' DIA.	EACH	2	2	
61133300	FIELD TILE JUNCTION VAULTS, 4' DIA.	EACH	2	2	
61133400	FIELD TILE JUNCTION VAULTS, 5' DIA.	EACH	2	2	
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	350	350	
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4	
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4	
63200310	GUARDRAIL REMOVAL	FOOT	718	718	
63500105	DELINEATORS	EACH	12	12	
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	32	32	
* 66700205	PERMANENT SURVEY MARKERS, TYPE I	EACH	1	1	

* SPECIALTY ITEM

MODEL: P:\d\h\p\...
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 3119007-06\CAD_Sheets\0264457-ent-000.dgn
 190-22, various PH I and II sub to BRNWO 6 US 52 over ELKHORN CREEK

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US ROUTE 52 OVER ELKHORN CREEK
SUMMARY OF QUANTITIES

SCALE: 40.0000 ' / in. SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	9
CONTRACT NO. 64H57			ILLINOIS FED. AID PROJECT	

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				ROADWAY	BRIDGE
				0004	0010
				S.N. 071-0098	
* 66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	1	1	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	12	
67100100	MOBILIZATION	L SUM	1	1	
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	42	42	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	180	180	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	60	60	
* 72000100	SIGN PANEL - TYPE 1	SQ FT	33	33	
* 72000200	SIGN PANEL - TYPE 2	SQ FT	22	22	
* 72300100	INSTALL EXISTING SIGN PANEL	SQ FT	4	4	
* 72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	54	54	
* 72400320	REMOVE SIGN PANEL - TYPE 2	SQ FT	107	107	
* 72400330	REMOVE SIGN PANEL - TYPE 3	SQ FT	176	176	
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
* 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	73	73	

* SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 52 OVER ELKHORN CREEK
SUMMARY OF QUANTITIES

SCALE: 40.0000 ' / in. SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	10
CONTRACT NO. 64H57			ILLINOIS FED. AID PROJECT	

MODEL: I:\info\h...
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 PLOT DATE: 7/26/2022

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	OGLE COUNTY	
				80% FEDERAL / 20% STATE	80% FEDERAL / 20% STATE
				CONSTRUCTION CODE	
				ROADWAY	BRIDGE
				0004	0010
				S.N. 071-0098	
73000100	WOOD SIGN SUPPORT	FOOT	32	32	
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	9252	9252	
* 78009024	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	84	84	
* 78011025	GROOVING FOR RECESSED PAVEMENT MARKING LINE 5"	FOOT	4626	4626	
* 78011125	GROOVING FOR RECESSED PAVEMENT MARKING LINE 25"	FOOT	42	42	
X0325409	PILE REMOVAL	EACH	4	4	
X0326649	LINEAR DELINEATOR PANELS, 6 INCH	EACH	12	12	
X1700063	CONCRETE HEADWALL (SPECIAL)	EACH	4	4	
X2030300	CHANNEL EXCAVATION (SPECIAL)	CU YD	5950	5950	
X2501750	SEEDING, CLASS 4 (SPECIAL)	ACRE	0.75	0.75	
X3550015	HOT-MIX ASPHALT BASE COURSE, (VARIABLE DEPTH)	TON	2535	2535	
X4400196	HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL	SQ YD	246	246	
X5015225	PIPE CULVERT REMOVAL (SPECIAL)	FOOT	141	141	
X6024242	INLETS, SPECIAL, NO. 1	EACH	1	1	

* SPECIALTY ITEM

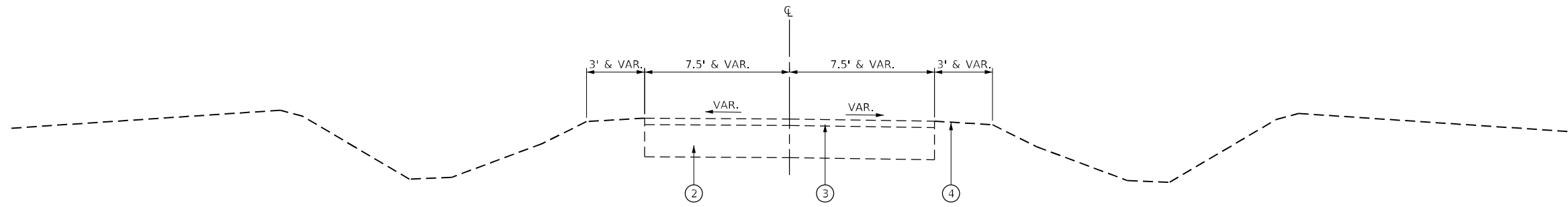
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US ROUTE 52 OVER ELKHORN CREEK SUMMARY OF QUANTITIES			
SCALE: 40.0000 ' / in.	SHEET	OF	SHEETS
STA.	TO	STA.	TO

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	11
CONTRACT NO. 64H57			ILLINOIS FED. AID PROJECT	

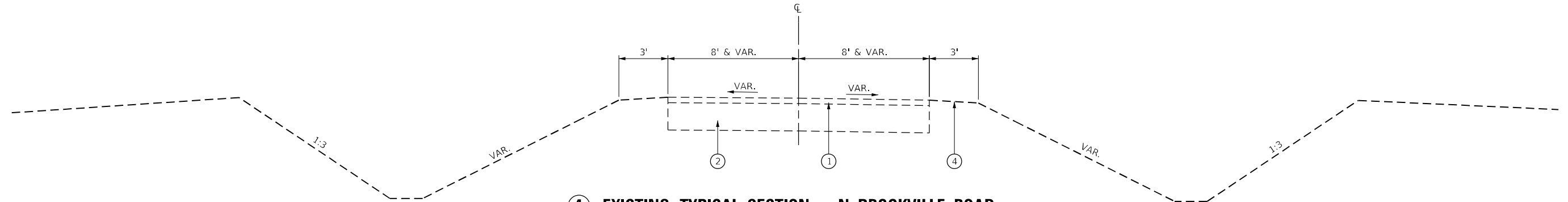


3 EXISTING TYPICAL SECTION – YOUNG STREET

STA. 1000+13.00 TO STA. 1000+73.17

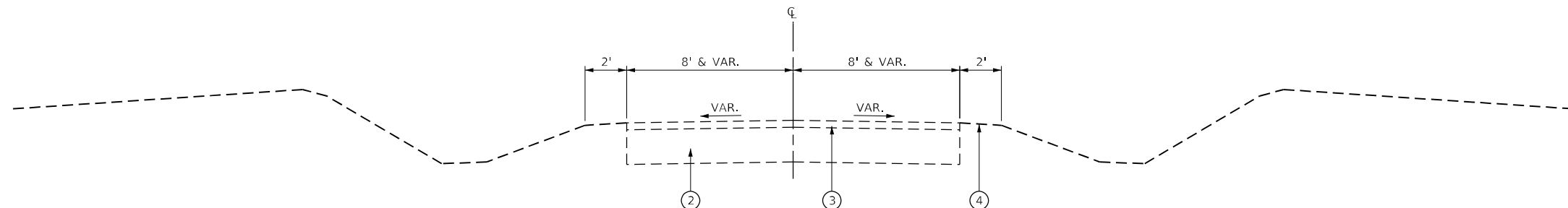
LEGEND

- ① INCIDENTAL HMA, 3" & VARIABLE
- ② AGGREGATE BASE
- ③ INCIDENTAL HMA, 3" & VARIABLE AND OIL & CHIP SURFACE
- ④ EARTH SHOULDER



4 EXISTING TYPICAL SECTION – N. BROOKVILLE ROAD

STA. 196+98.62 TO STA. 198+10



5 EXISTING TYPICAL SECTION – W. CHAMBERS STREET

STA. 298+35.00 TO STA. 299+87.40

MODEL: P:\64H57\11007-06\CADD\DOT_DIST\DOT 2_PFB_190-22_wdrbwr PH 1 and II sub to BFMWVO 6 US 52 over Elkhorn Creek_3119007-06\CADD_Sheets\10264H57-2h1b1p01.dgn
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USER NAME = Sta42
 TUG PROJECT NO. 3119007-06
 PLOT SCALE = 10,0000' / in.
 PLOT DATE = 6/22/2022

DESIGNED - SJF
 DRAWN -
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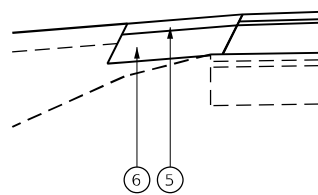
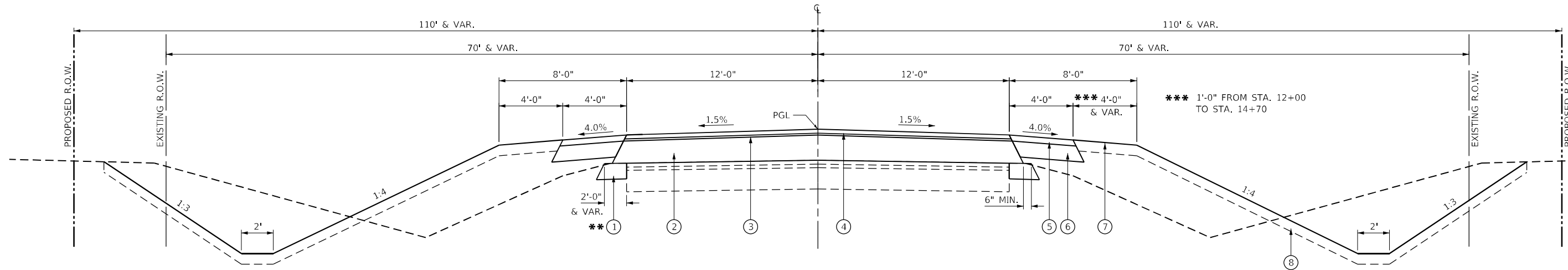
REVISED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**US ROUTE 52 OVER ELKHORN CREEK
 EXISTING TYPICAL SECTION**

SCALE: 10,0000' / in. SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	14
CONTRACT NO. 64H57				
ILLINOIS FED. AID PROJECT				



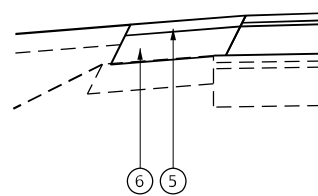
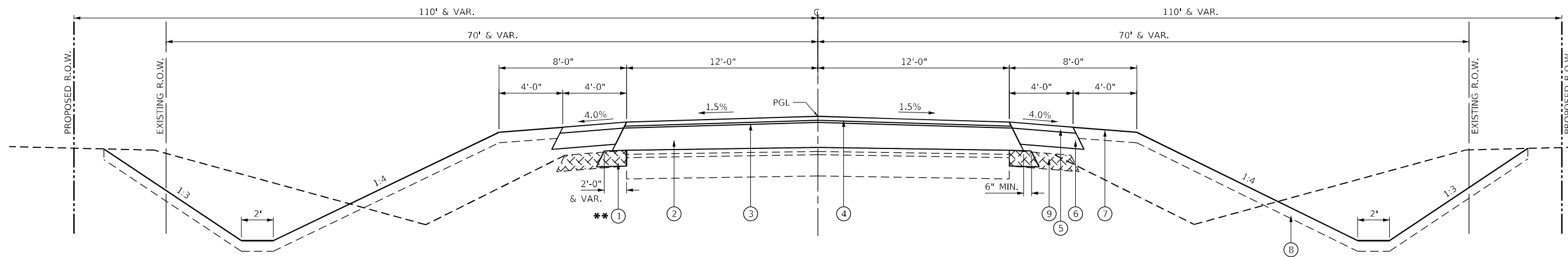
*** SHOULDER WITHOUT WIDENING**

① PROPOSED TYPICAL SECTION – US 52

- * STA. 12+00.00 TO STA. 13+25.00
- ** RT. STA. 13+25.00 TO STA. 22+66.60
- ** LT. STA. 13+25.00 TO STA. 23+33.65
- * RT. STA. 27+76.49 TO STA. 29+50.00
- * LT. STA. 28+38.39 TO STA. 29+64.00
- * RT. STA. 29+50.00 TO STA. 29+64.00

LEGEND

- ** ① HOT-MIX ASPHALT BASE COURSE WIDENING, 6"
 - ② HOT-MIX ASPHALT BASE COURSE (VAR. DEPTH) (1'-7½" MAX.) #
 - ③ 1½" HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N50 #
 - ④ 1½" HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50 #
 - ⑤ 2½" HOT-MIX ASPHALT SHOULDER
 - ⑥ HOT-MIX ASPHALT SHOULDER, 5½"
 - ⑦ EARTH SHOULDER
 - ⑧ TOPSOIL FURNISH AND PLACE, 4"
 - ⑨ PAVED SHOULDER REMOVAL
- # 112#/SQ YD/IN



*** SHOULDER WITHOUT WIDENING**

② PROPOSED TYPICAL SECTION – US 52

- ** RT. STA. 22+66.60 TO STA. 23+94.91
- ** LT. STA. 23+33.65 TO STA. 23+94.91
- ** STA. 26+82.23 TO STA. 27+50.00
- * RT. STA. 27+50.00 TO STA. 27+76.49
- * LT. STA. 27+50.00 TO STA. 28+38.39

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USER NAME = Sta42	DESIGNED - SJF	REVISED -
TUG PROJECT NO. 3119007-06	DRAWN -	REVISED -
PLOT SCALE = 10,0000' / in.	CHECKED - SJF	REVISED -
PLOT DATE = 6/22/2022	DATE - JUNE 22, 2022	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**US ROUTE 52 OVER ELKHORN CREEK
 PROPOSED TYPICAL SECTION**

SCALE: 10,0000' / in. SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	15
CONTRACT NO. 64H57				
ILLINOIS FED. AID PROJECT				

PAVEMENT & SHOULDER SCHEDULE											
STATION TO STATION		LT/RT	35600700	40600290	40600370	40602965	40604050	48203018	48203100	X3550015	X4400196
			HMA BASE COURSE WIDENING, 6"	BITUMINOUS MATERIALS (TACK COAT)	LONGITUDINAL JOINT SEALANT	HMA BINDER COURSE, IL 9.5 FG, N50	HMA SURFACE COURSE, IL 9.5, MIX "C", N50	HMA SHOULDER, 5 1/4"	HMA SHOULDER	HMA BASE COURSE, (VARIABLE DEPTH)	HMA SURFACE REMOVAL, SPECIAL
			SQ YD	POUND	FOOT	TON	TON	SQ YD	TON	TON	SQ YD
12+00.00	23+94.91	LT/RT		955.9				1082.4	166.4		
12+00.00	23+94.91	LT/RT		2907.2		280.4	351.2				
13+15	23+94.91	LT/RT		8863.0						2403.6	
13+25.00	23+50.00	LT/RT	495.7								
26+82.23	29+64.00	LT/RT		2225.7				285.1	33.7		
26+82.23	29+64.00	LT/RT		657.4		70.8	77.9				
26+82.23	28+25	LT/RT		225.4						130.7	
26+86.48	27+76.71	LT/RT	40.1								
12+00.00	23+94.41	CL			1194.9						66.3
26+82.23	29+64	CL			281.8						15.7
12+00.00	23+94.41	LT/RT									132.6
12+00.00	29+64	LT/RT									31.4
TOTALS			535.8	15834.6	1476.7	351.2	429.1	1367.5	200.1	2534.3	246.0
ROUNDED TOTALS			536	15835	1477	352	382	1368	201	2535	246

INLET & PIPE PROTECTION SCHEDULE			
ROUTE	STATION	LT / RT	28000500
			INLET & PIPE PROTECTION
			EACH
US 52	13+50	RT	1
US 52	14+68	RT	1
US 52	19+36	LT	1
US 52	19+81	RT	1
W CHAMBERS RD	298+60	RT	1
TOTAL			5

ACROSS ROAD CULVERT SCHEDULE										
ROUTE	STATION & OFFSET	STATION & OFFSET	USFL	DSFL	54260518	54261630	54261636	542A0235	542A0241	542D0223
					SLOPED METAL END SECTION, STANDARD 542411, 18" 1:6	CONCRETE END SECTION, 30" 1:6	CONCRETE END SECTION, STD 542001, 36" 1:6	PIPE CULVERTS, CL A, TY 1, 30"	PIPE CULVERTS, CL A, TY 1, 36"	PIPE CULVERTS, CL D, TY 1, 18" (CMP)
					EACH	EACH	EACH	FOOT	FOOT	FOOT
W CHAMBERS RD	298+71.26 23.15' RT	299+27.94 44.17' RT	755.96	754.88	2					72
W CHAMBERS RD	299+41.46 21.07' LT	299+42.86 23.44' RT	755.24	754.88			2		45	
N BROOKVILLE	197+59.56 21.22' LT	197+42.51 20.42' RT	755.84	755.64		2		45		
TOTALS					2	2	2	45	45	72

GUARDRAIL REMOVAL SCHEDULE				
STATION TO STATION	LT / RT	63200310		
		GUARDRAIL REMOVAL		
		FOOT		
23+44.51		24+92.33	LT	147.8
22+92.26		25+02.91	RT	210.8
26+11.13		28+21.89	LT	210.8
26+22.54		27+69.92	RT	147.8
TOTAL				717.2
ROUNDED TOTAL				718

ENTRANCES/SIDEROADS SCHEDULE																
LOCATION				CENTERLINE TO ROW	WIDTH AT SHOULDER	SHOULDER TO THROAT	THROAT WIDTH	THROAT TO TERMINI	TERMINI WIDTH	AREA (HMA)	AREA (AGG SURFACE)	35101400	40200100	40201000	40800025	40800050
												AGG BASE COURSE, TYPE B	AGG SURFACE COURSE, TYPE A	AGGREGATE FOR TEMPORARY ACCESS	BITUMINOUS MATERIALS (PRIME COAT)	INCIDENTAL HMA SURFACING
STA:	RT / LT	REMARKS	EXISTING SURFACE	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	SQ YD	SQ YD	TON	TON	TON	POUND	TON
US 52																
15+03.41	RT	W YOUNG ST	HMA	NA	NA	NA	21.4	NA	21.4	298.6	NA	207.0		10.0	671.9	58.5
19+87.00	LT	N BROOKVILLE RD	HMA/AGG	NA	NA	NA	20.0	53.1	16.0	363.7	129.7	252.2	89.9	10.0	818.3	71.2
20+01.77	RT	W CHAMBERS	HMA&OIL&CHIP	NA	NA	NA	21.6	119.7	17.5	480.1	NA	332.9		10.0	1080.3	94.3
W CHAMBERS RD																
299+10.00	RT	FE	AGGREGATE	61.3	NA	NA	72.5	20.0	30.0	NA	178.0		82.3	10.0		
TOTALS												792.1	172.2	40.0	2570.5	224.0
ROUNDED TOTALS												793	173	40	2571	224

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

US ROUTE 52 OVER ELKHORN CREEK
 SCHEDULE OF QUANTITIES
 SCALE: 40.0000 ' / in. SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	18
CONTRACT NO. 64H57				
ILLINOIS FED. AID PROJECT				

LANDSCAPING SCHEDULE

ROUTE	STATION TO STATION		LT / RT	21101615	25000110	25000210	25000310	25000400	25000500	25000600	25000750	25000775	25100125	25100630	25100900	28000250	X2501750
				TOPSOIL FURNISH AND PLACE, 4"	SEEDING, CLASS 1A	SEEDING, CLASS 2A	SEEDING, CLASS 4	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	MOWING	SELECTIVE MOWING STAKES	MULCH, METHOD 3	EROSION CONTROL BLANKET	TURF REINFORCEMENT MAT	TEMPORARY EROSION CONTROL SEEDING	SEEDING, CLASS 4, (SPECIAL)
				SQ YD	ACRE	ACRE	ACRE	POUND	POUND	POUND	ACRE	EACH	ACRE	SQ YD	SQ YD	POUND	ACRE
US 52	12+00	16+00	LT	1203.1	0.04	0.21	0.04	31.5	31.5	31.5	0.25	3	0.38	1620.8	118.2	38.0	0.09
US 52	12+00	16+00	RT	913.3		0.14	0.01	13.5	13.5	13.5	0.14		0.15	913.3		15.0	
US 52	16+00	22+00	LT	2677.3		0.49	0.06	61.2	61.2	61.2	0.49	5	0.68	3309.1		68.0	0.13
US 52	16+00	22+00	RT	2435.7		0.44	0.06	48.6	48.6	48.6	0.44		0.54	2621.4		54.0	0.04
US 52	22+00	28+00	LT	4119.7		0.68	0.17	89.1	89.1	89.1	0.68	6	0.99	4780.2		99.0	0.14
US 52	22+00	28+00	RT	4278.3		0.70	0.18	92.7	92.7	92.7	0.70		1.03	4993.1		103.0	0.15
US 52	28+00	29+64	LT	941.1		0.18	0.02	24.3	24.3	24.3	0.18	1	0.26	1212.2		26.0	0.06
US 52	28+00	29+64	RT	987.9		0.19	0.02	26.1	26.1	26.1	0.19	1	0.25	1193.0		25.0	0.04
	29+64	30+10	LT	73.5	0.02						0.02		0.02	73.5		2.0	
	29+64	30+10	RT	235.6	0.05						0.05		0.05	235.6	28.5	5.0	
N BROOKVILLE RD	197+75	198+10	LT/RT	162.8		0.03	0.01	5.4	5.4	5.4	0.03	2	0.06	243.7		6.0	0.02
W CHAMBERS RD	298+35	299+75	LT/RT	336.9	0.03	0.03	0.01	6.3	6.3	6.3	0.06		0.07	336.9		7.0	
TOTALS				18365.2	0.14	3.09	0.58	398.7	398.7	398.7	3.23	18	4.48	21532.8	146.7	448.0	0.67
ROUNDED TOTALS				18366	0.25	3.25	0.75	450	450	450	3.50		5.00	24200	147	500	0.75

PERMANENT PAVEMENT MARKINGS AND GROOVING SCHEDULE

STATION TO STATION		LT/RT	78009004	78009024	78011025	78011125
			MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	GROOVING FOR RECESSED PAVEMENT MARKING 5"	GROOVING FOR RECESSED PAVEMENT MARKING 25"
			FOOT	FOOT	FOOT	FOOT
11+90	18+59.47	LT	1339.0		669.5	
11+90	14+49.33	RT	518.6		259.3	
15+88.03	19+61.75	RT	747.4		373.7	
20+30.61	29+74	LT	1886.8		943.4	
21+07.17	29+74	RT	1733.6		866.8	
11+90	20+45	CL	1710.0		855.0	
27+60	29+74	CL	430.0		214.0	
11+90	29+74	CL	886.0		443.5	
W YOUNG ST	1000+31	RT		26		13
N BROOKVILLE RD	197+41	LT		30		15
W CHAMBERS ST	299+64	RT		28		14
TOTALS			9251.4	84	4625.2	42
ROUNDED TOTALS			9252*	84*	4626	42

* - TWO APPLICATIONS. SECOND APPLICATION APPLIED 10 CALENDAR DAYS AFTER THE FIRST APPLICATION

TEMPORARY DITCH CHECKS SCHEDULE

ROUTE	STATION TO STATION	LT/RT	HEIGHT (FT)	SPACING (FT)	NUMBER OF DITCH CHECKS	28000305
						TEMPORARY DITCH CHECKS
						FOOT
US 52	12+00 - 18+80	LT	2.0	40	17	136
US 52	12+00 - 13+20	RT	1.5	30	4	32
US 52	13+83 - 14+53	RT	1.5	40	2	16
US 52	15+50 - 19+25	RT	1.5	75	6	48
US 52	20+25 - 25+00	LT	1.5	150	4	32
US 52	20+60 - 25+00	RT	1.5	150	4	32
US 52	26+00 - 29+50	RT	1.5	150	3	24
US 52	26+00 - 29+25	LT	1.5	150	3	24
W YOUNG ST	1000+40 - 1001+00	LT	1.5	50	1	8
BROOKVILLE RD	197+80 - 198+10	LT	1.5	30	1	8
BROOKVILLE RD	197+40 - 198+10	RT	1.5	40	1	8
W CHAMBERS RD	298+35 - 299+40	LT	1.5	50	1	8
TOTAL						376

TEMPORARY PAVEMENT MARKINGS SCHEDULE

ROUTE	STATION TO STATION		LT/RT	70300100	70300150
				SHORT TERM PAVEMENT MARKING	SHORT TERM PAVEMENT MARKING REMOVAL
				FOOT	SQ FT
US 52	12+00	29+64	CL	176.4	59.9
TOTALS				176.4	59.9
ROUNDED TOTALS				180	60

EXPLORATION TRENCH SCHEDULE

ROUTE	STATION TO STATION		LT / RT	21301052	61133100	61133200	61133300	61133400
				EXPLORATION TRENCH 52" DEPTH	FIELD TILE JUNCTION VAULTS, 2' DIA	FIELD TILE JUNCTION VAULTS, 3' DIA	FIELD TILE JUNCTION VAULTS, 4' DIA	FIELD TILE JUNCTION VAULTS, 5' DIA
				FOOT	EACH	EACH	EACH	EACH
US 52	21+00	29+00	LT	800	1	1	1	1
US 52	21+00	29+00	RT	800	1	1	1	1
TOTALS				1600	2	2	2	2

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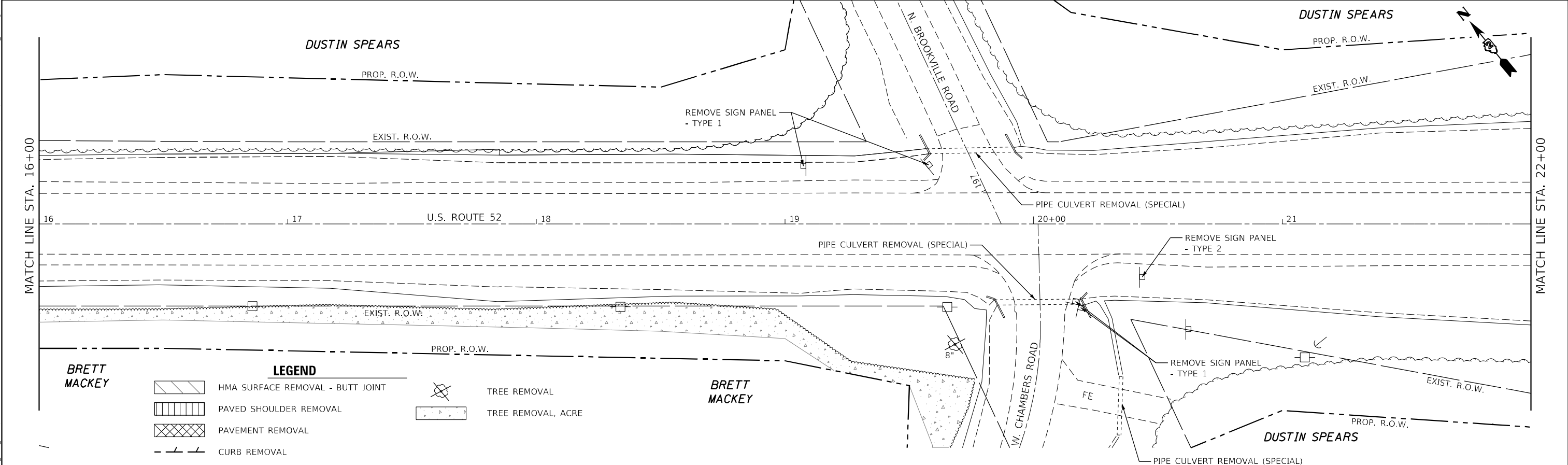
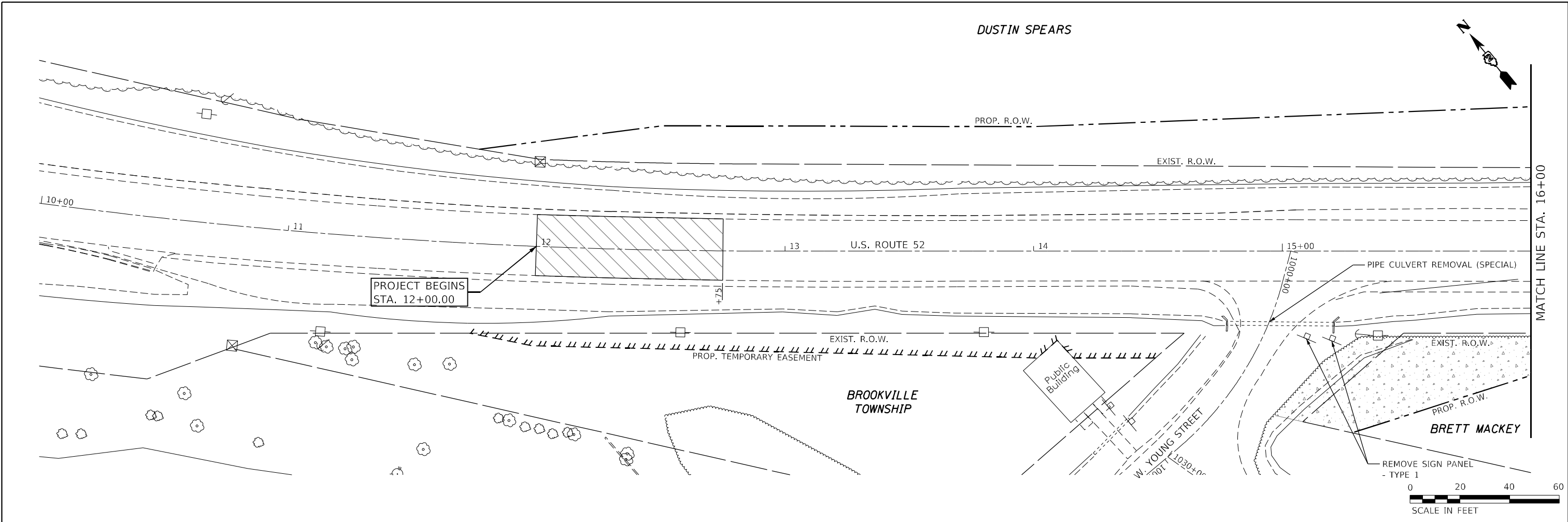
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US ROUTE 52 OVER ELKHORN CREEK
SCHEDULE OF QUANTITIES**

SCALE: 40.0000 ' / in. SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	19
CONTRACT NO. 64H57			ILLINOIS FED. AID PROJECT	



LEGEND			
	HMA SURFACE REMOVAL - BUTT JOINT		TREE REMOVAL
	PAVED SHOULDER REMOVAL		TREE REMOVAL, ACRE
	PAVEMENT REMOVAL		
	CURB REMOVAL		

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TUG PROJECT NO.	3119007-06	DRAWN -		REVISED -	
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PLOT DATE =	6/23/2022	DATE -	JUNE 22, 2022	REVISED -	

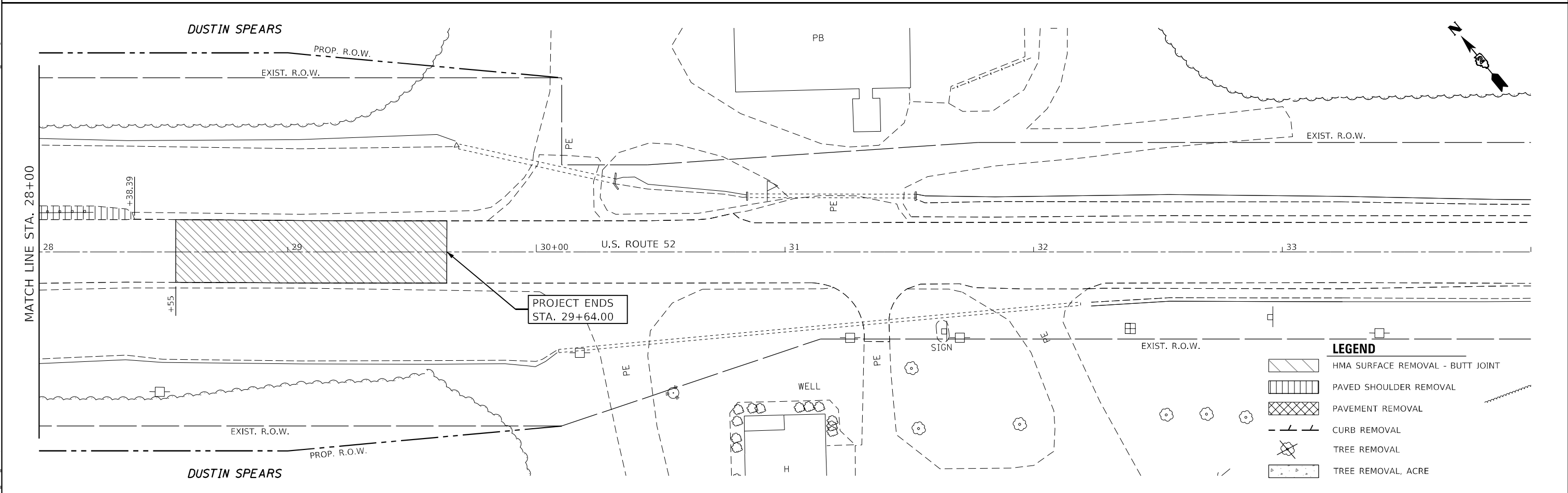
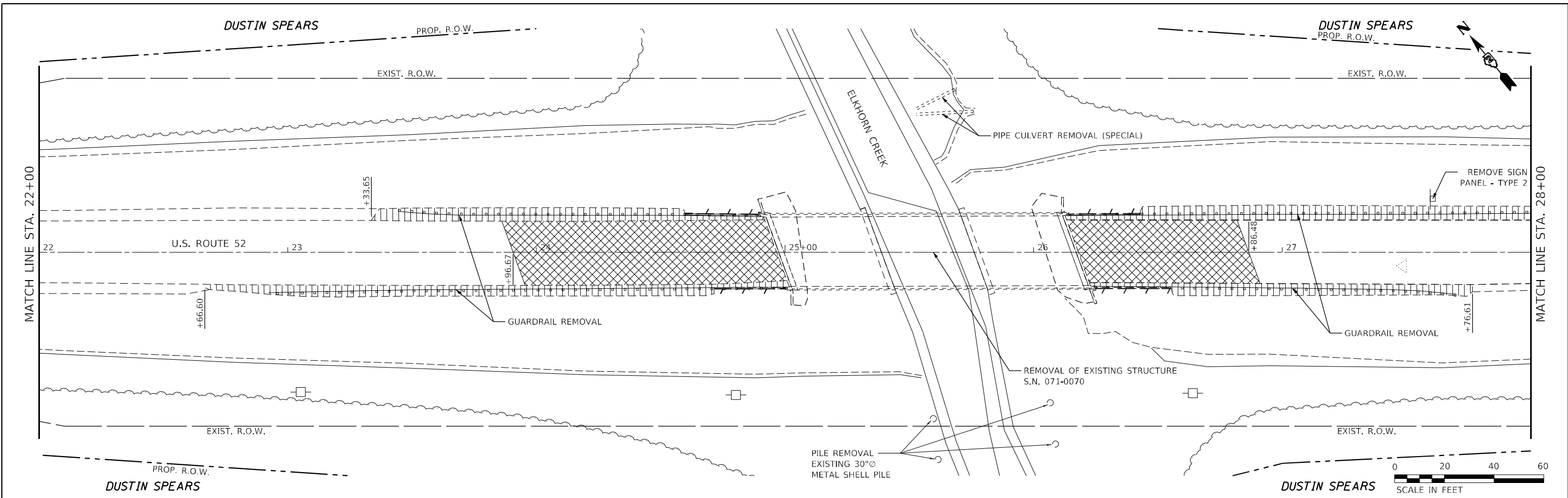
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**US ROUTE 52 OVER ELKHORN CREEK
 REMOVAL PLAN**

SCALE: 40,0000 ' / in. SHEET OF SHEETS STA. 10+00 TO STA. 22+00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	23
CONTRACT NO. 64H57				
ILLINOIS FED. AID PROJECT				

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LEGEND

	HMA SURFACE REMOVAL - BUTT JOINT
	PAVED SHOULDER REMOVAL
	PAVEMENT REMOVAL
	CURB REMOVAL
	TREE REMOVAL
	TREE REMOVAL, ACRE

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PLOT DATE = 6/22/2022	DATE - JUNE 22, 2022	REVISD -

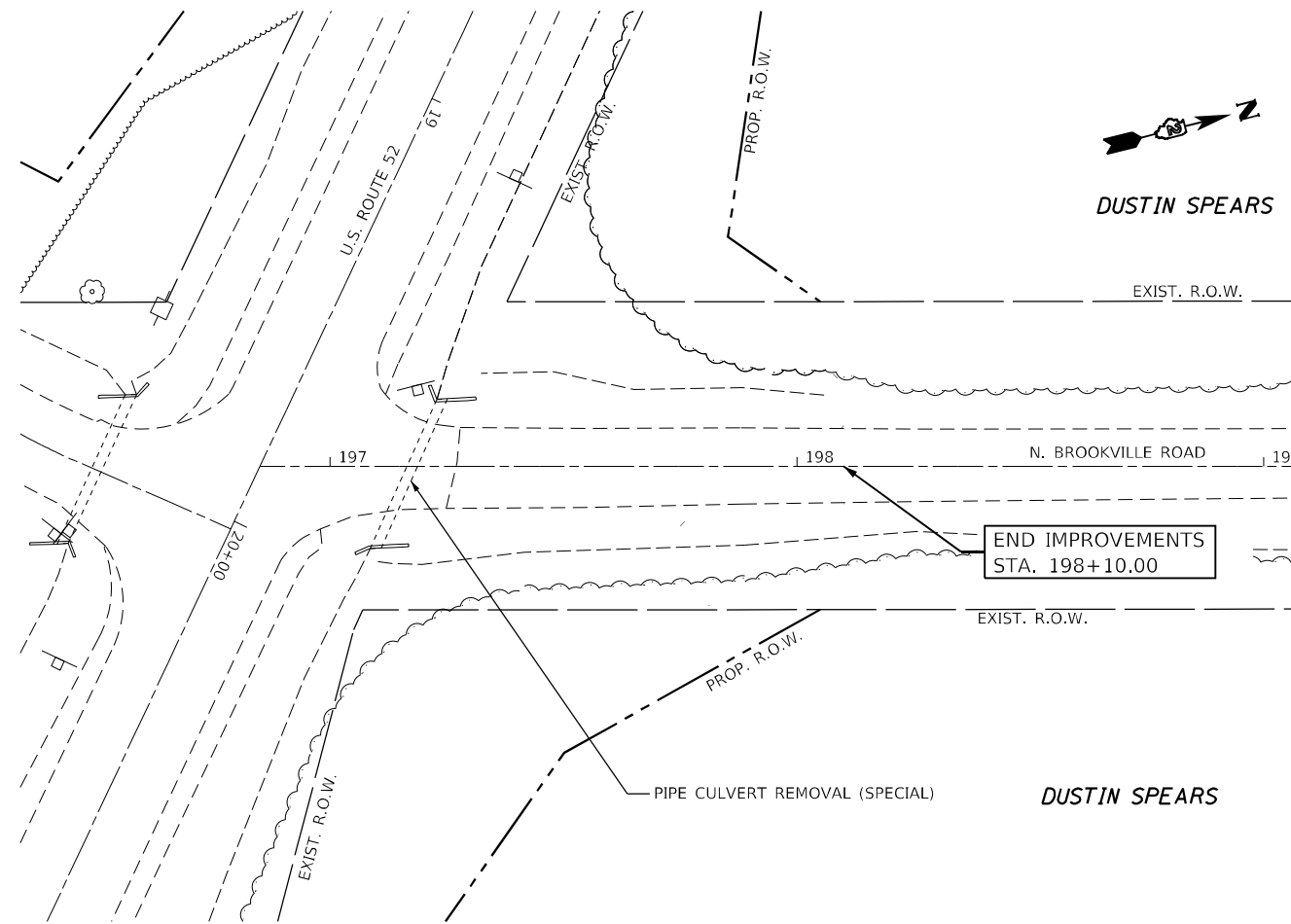
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**US ROUTE 52 OVER ELKHORN CREEK
 REMOVAL PLAN**

SCALE: 40,0000 ' / in. SHEET OF SHEETS STA. 22+00 TO STA. 34+00

F.A.S. RTE. 2079	SECTION 16BR-1	COUNTY OGLE	TOTAL SHEETS 130	SHEET NO. 24
ILLINOIS FED. AID PROJECT			CONTRACT NO. 64H57	

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LEGEND

- HMA SURFACE REMOVAL - BUTT JOINT
- PAVED SHOULDER REMOVAL
- PAVEMENT REMOVAL
- CURB REMOVAL
- TREE REMOVAL
- TREE REMOVAL, ACRE



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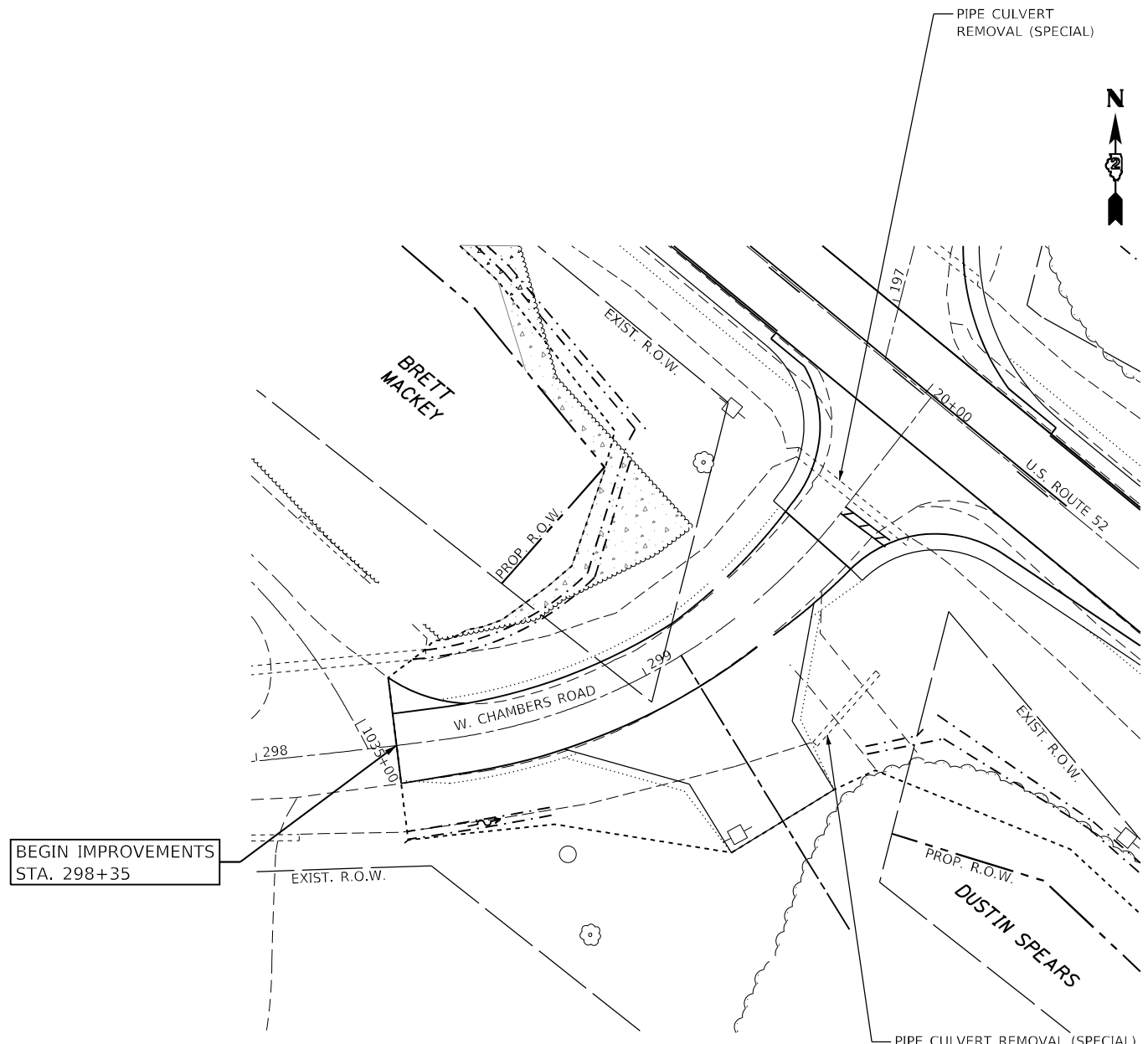
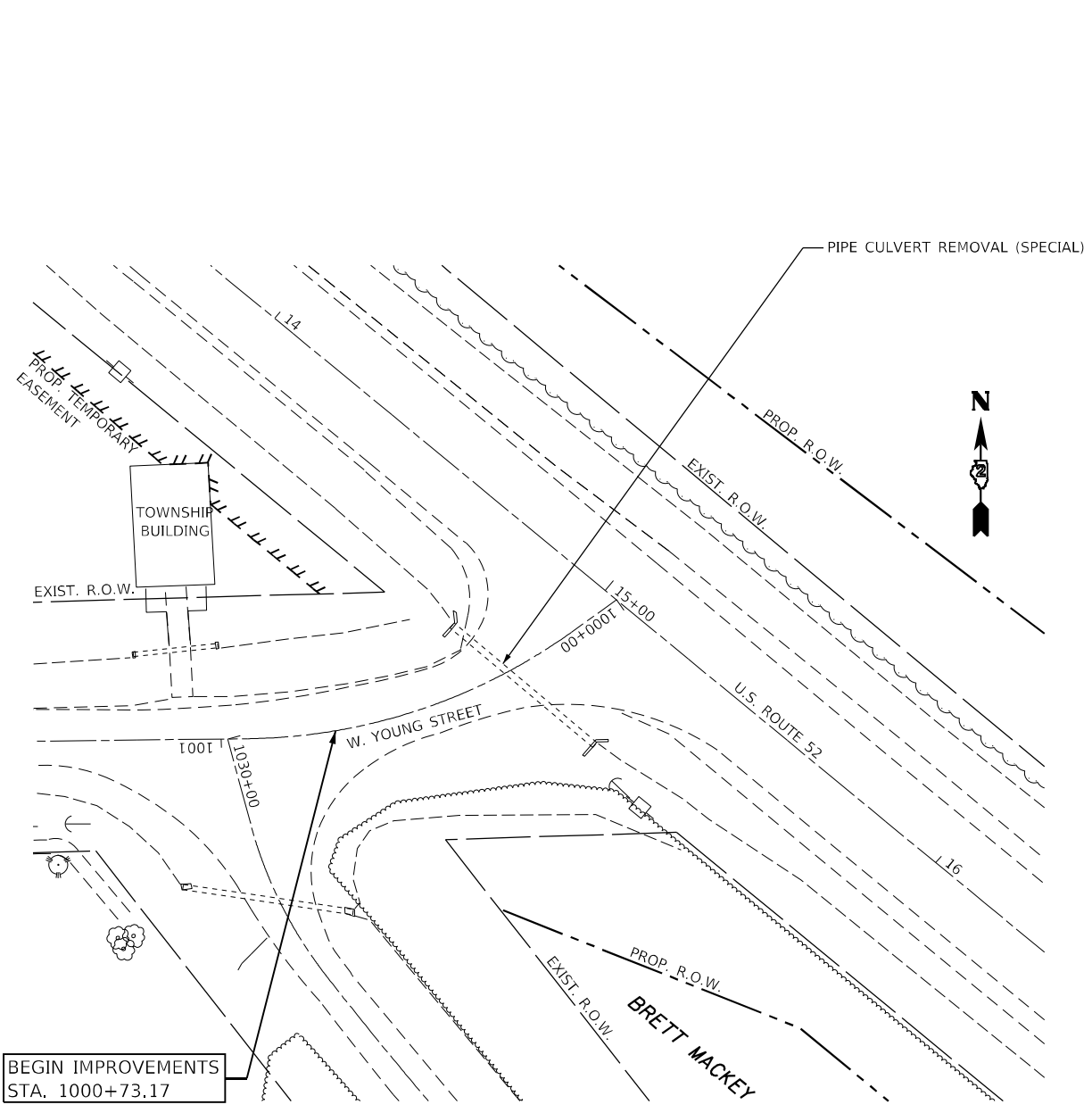
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH BROOKVILLE ROAD
REMOVAL PLAN

SCALE: 40,0018' / in. SHEET OF SHEETS STA. 196+85 TO STA. 198+10

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	25
CONTRACT NO. 64H57				
ILLINOIS FED. AID PROJECT				

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- LEGEND**
- HMA SURFACE REMOVAL - BUTT JOINT
 - PAVED SHOULDER REMOVAL
 - PAVEMENT REMOVAL
 - CURB REMOVAL
 - TREE REMOVAL
 - TREE REMOVAL, ACRE



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USER NAME = Sta37	DESIGNED - SJF	REVISED -
TUG PROJECT NO. 3119007-06	DRAWN -	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED - SJF	REVISED -
PLOT DATE = 6/23/2022	DATE - JUNE 22, 2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

W. YOUNG STREET AND W. CHAMBERS STREET
REMOVAL PLAN

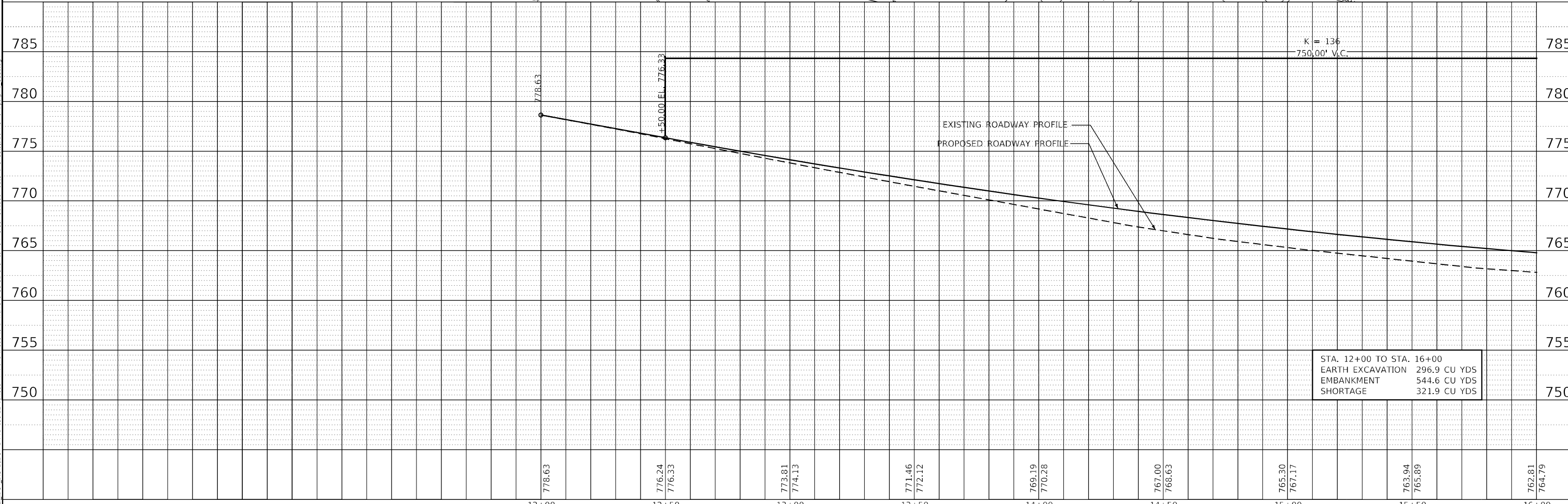
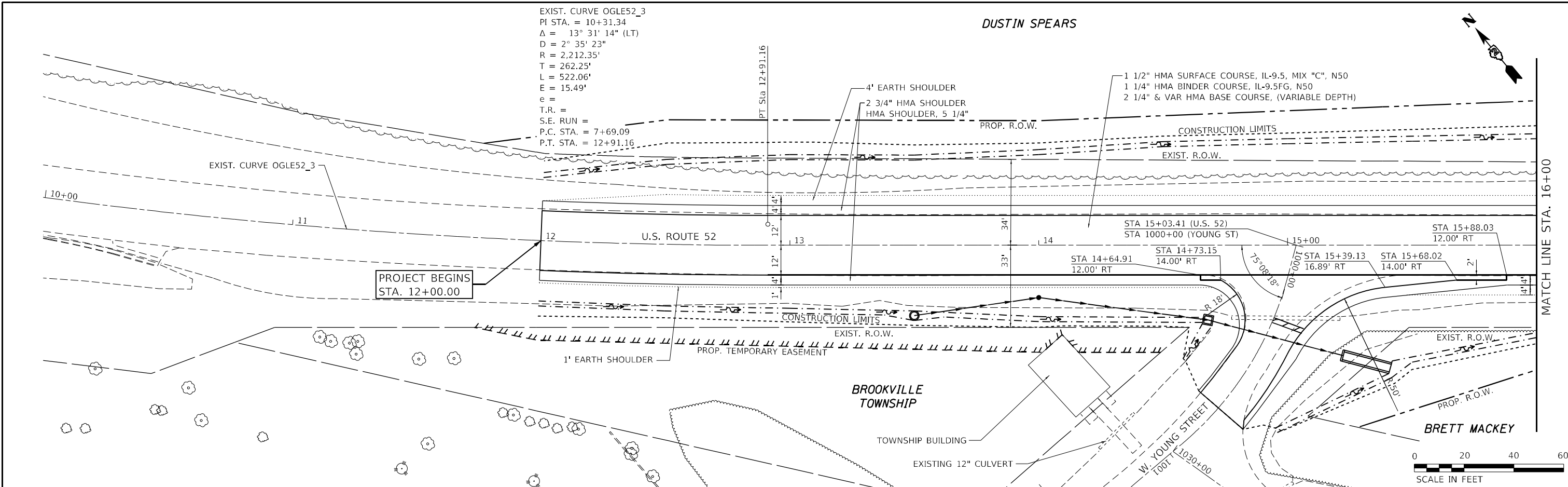
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	26
CONTRACT NO. 64H57				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
PLAN	SURVEYED
	PLOTTED
	ALIGNMENT CHECKED
	GRADE CHECKED
	STRUCTURE NOTATIONS CHECKED
NOTE BOOK NO.	
CADD FILE NAME	

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

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 PROJECT NO: 3119007-06
 SHEET: 130
 DATE: 6/22/2022



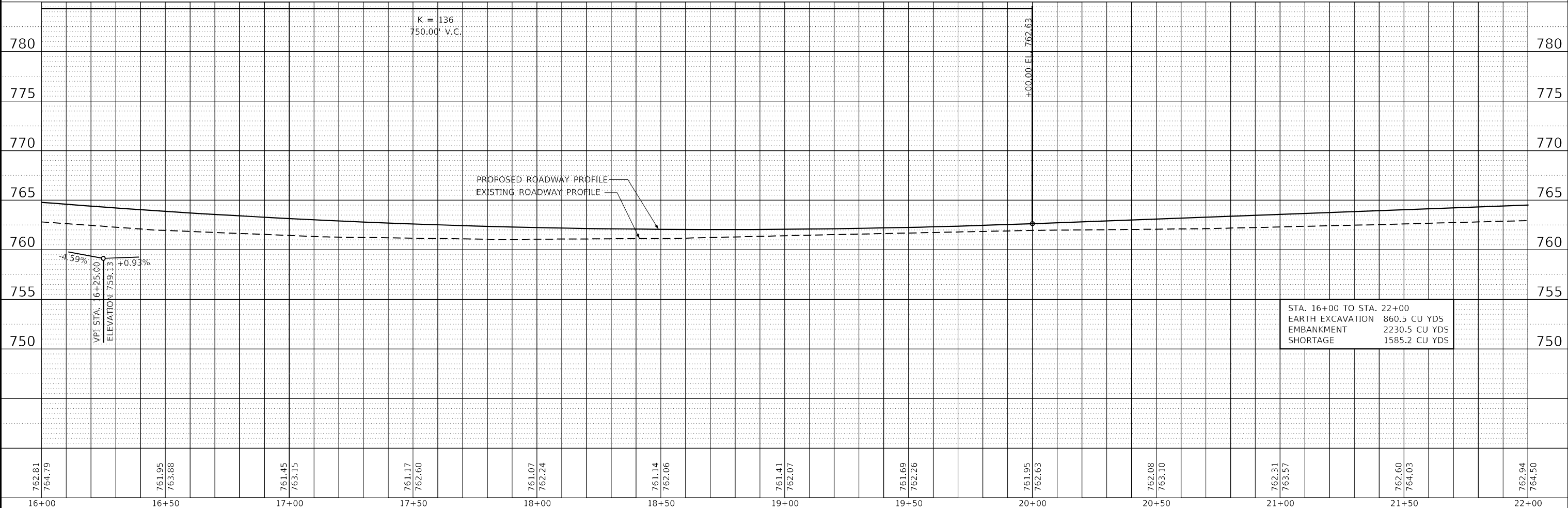
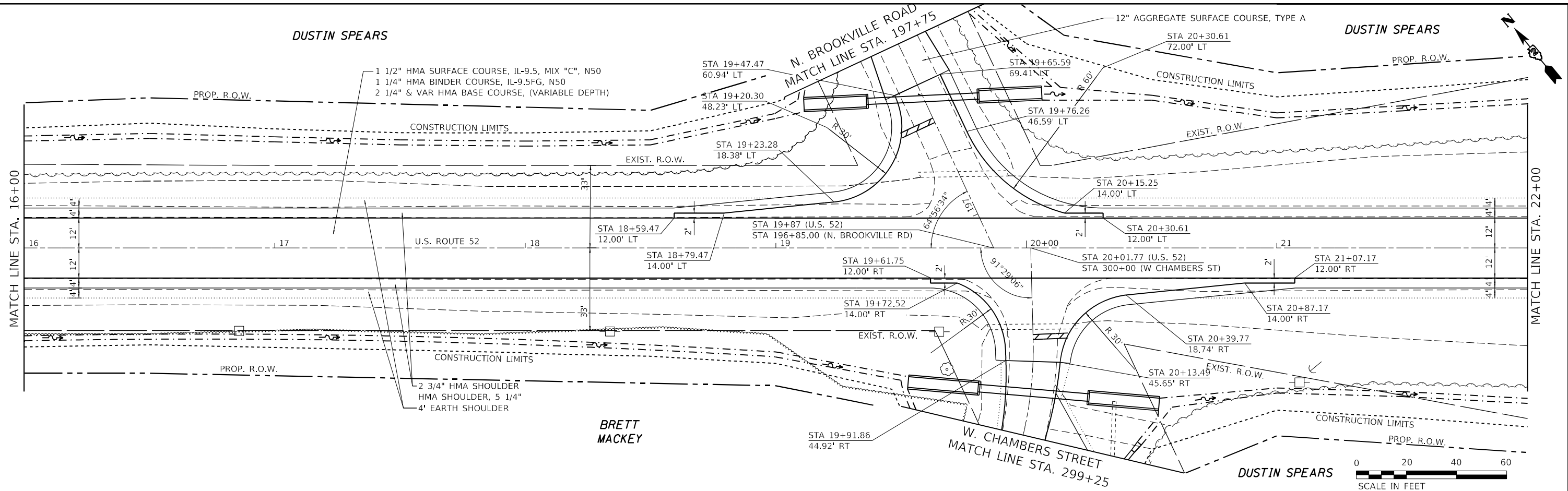
STA. 12+00 TO STA. 16+00	
EARTH EXCAVATION	296.9 CU YDS
EMBANKMENT	544.6 CU YDS
SHORTAGE	321.9 CU YDS

The Upchurch Group architects engineers surveyors 123 North 15th Street Moline, IL 61908 Phone: 312.253.3177 License No. 181-003401 Email: upchurchgroup@upchurchgroup.com	USER NAME = Sta42 TUG PROJECT NO. 3119007-06 PLOT SCALE = 40,0000' / in. PLOT DATE = 6/22/2022	DESIGNED - SJF DRAWN - TLW CHECKED - SJF DATE - JUNE 22, 2022	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US ROUTE 52 OVER ELKHORN CREEK PLAN AND PROFILE	SCALE: 40,0000' / in. SHEET OF SHEETS STA. 10+00 TO STA. 16+00	F.A.S. RTE. 2079 SECTION 16BR-1 COUNTY OGLE TOTAL SHEETS 130 SHEET NO. 27	CONTRACT NO. 64H57 ILLINOIS FED. AID PROJECT
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PLAN	SURVEYED	DATE
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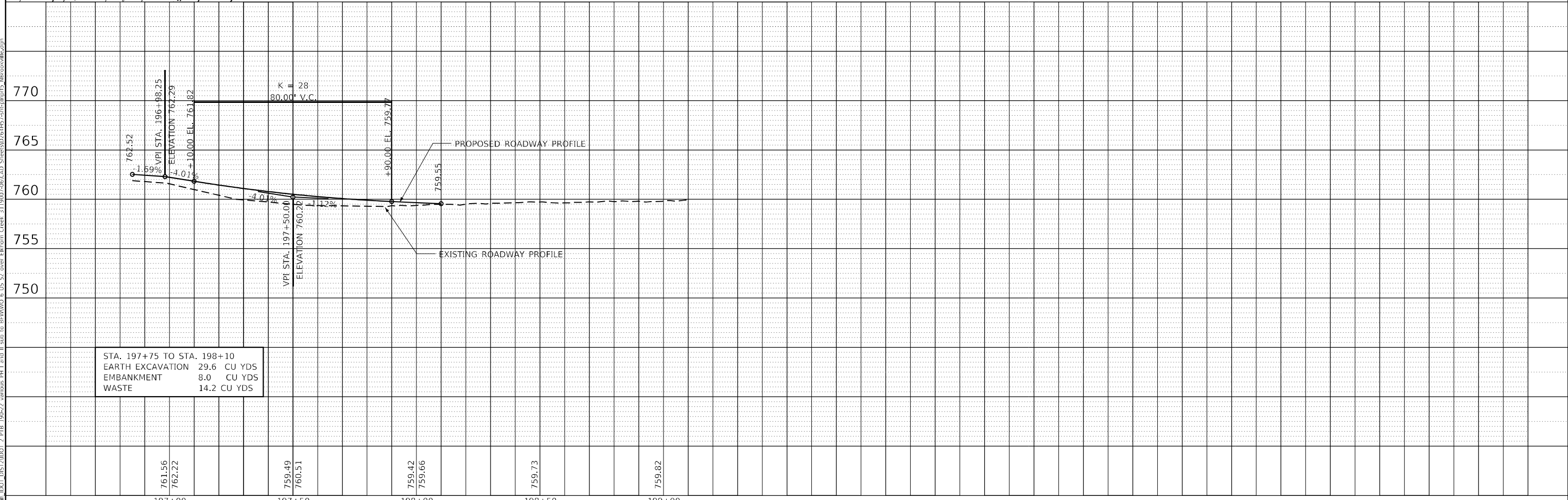
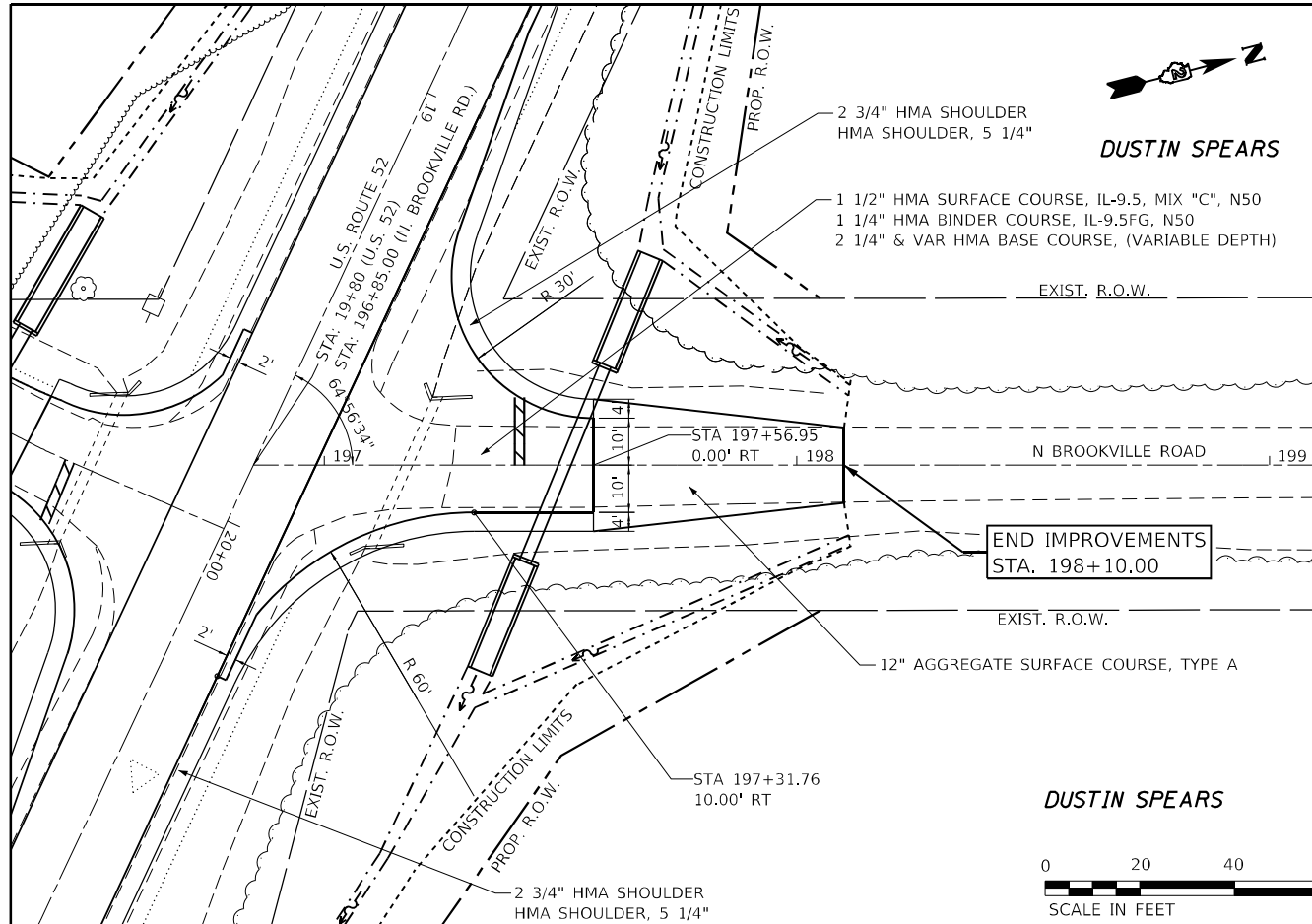


STA. 16+00 TO STA. 22+00
EARTH EXCAVATION 860.5 CU YDS
EMBANKMENT 2230.5 CU YDS
SHORTAGE 1585.2 CU YDS

The Upchurch Group architects engineers surveyors Professional Design Firm Corporation 123 North 15th Street Moline, IL 61908 Phone: 312.253.3177 License No. 10-003401 Email: upchurchgroup@upchurchgroup.com	USER NAME = Sta42 TUG PROJECT NO. 3119007-06 PLOT SCALE = 40,0000 ' / in. PLOT DATE = 6/22/2022	DESIGNED - SJF DRAWN - TLW CHECKED - SJF DATE - JUNE 22, 2022	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US ROUTE 52 OVER ELKHORN CREEK PLAN AND PROFILE	SCALE: 40,0000 ' / in. SHEET OF SHEETS STA. 16+00 TO STA. 22+00	F.A.S. RTE. 2079 SECTION 16BR-1 COUNTY OGLE TOTAL SHEETS 130 SHEET NO. 28	CONTRACT NO. 64H57 ILLINOIS FED. AID PROJECT
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	PLOTTED	BY
	ALIGNMENT CHECKED	
	GRADE CHECKED	
	STRUCTURE NOTATION	
	FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATION	
	FILE NAME	
	NO.	



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e-mail: upchurchgroup@upchurchgroup.com

USER NAME =	Sta37
TUG PROJECT NO.	3119007-06
PLOT SCALE =	40,0000 ' / in.
PLOT DATE =	6/23/2022
DESIGNED -	SJF
DRAWN -	TLW
CHECKED -	SJF
DATE -	JUNE 22, 2022
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REVISED -	
REVISED -	

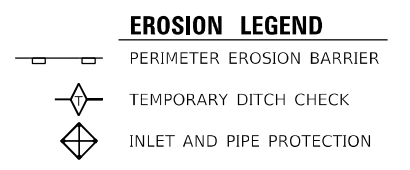
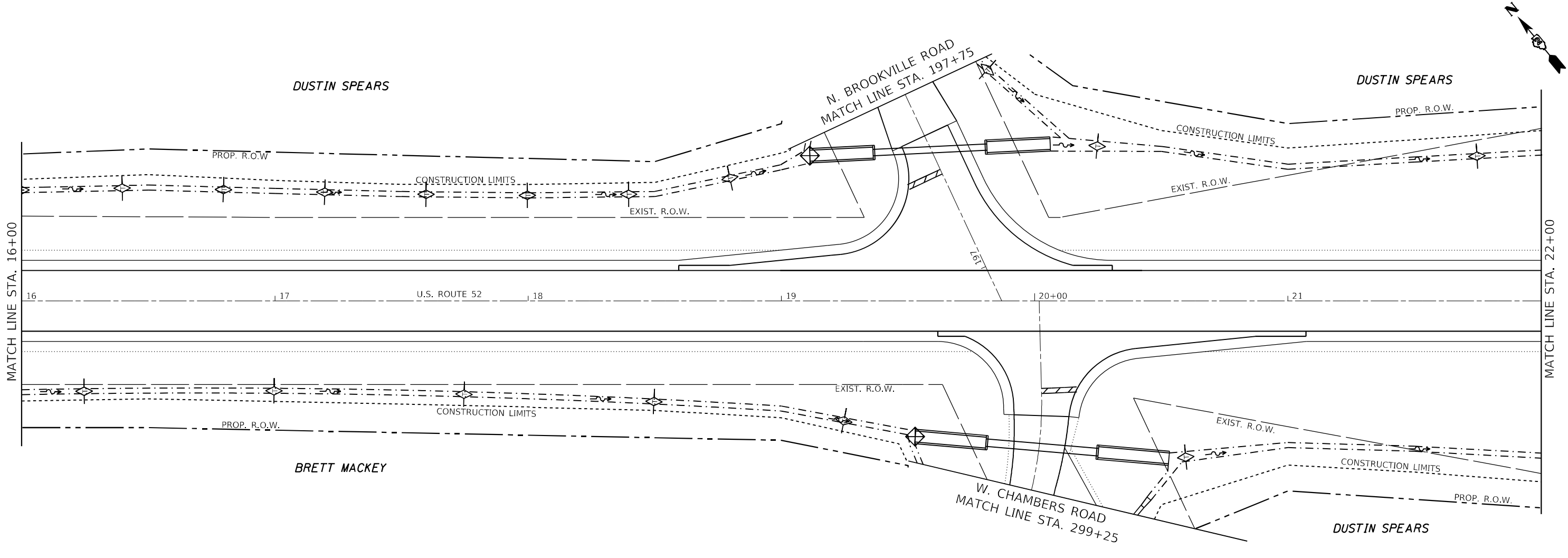
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH BROOKVILLE ROAD
PLAN AND PROFILE

SCALE: 40,0000 ' / in. SHEET OF SHEETS STA. 196+85 TO STA. 198+10

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	31
CONTRACT NO. 64H57				
ILLINOIS FED. AID PROJECT				

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 123 North 15th Street
 Mankato, IL 61308
 Phone: 211.253.3117
 Email: upchurchgroup@upchurchgroup.com

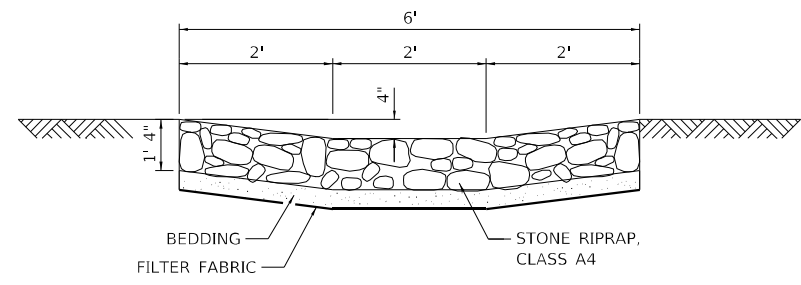
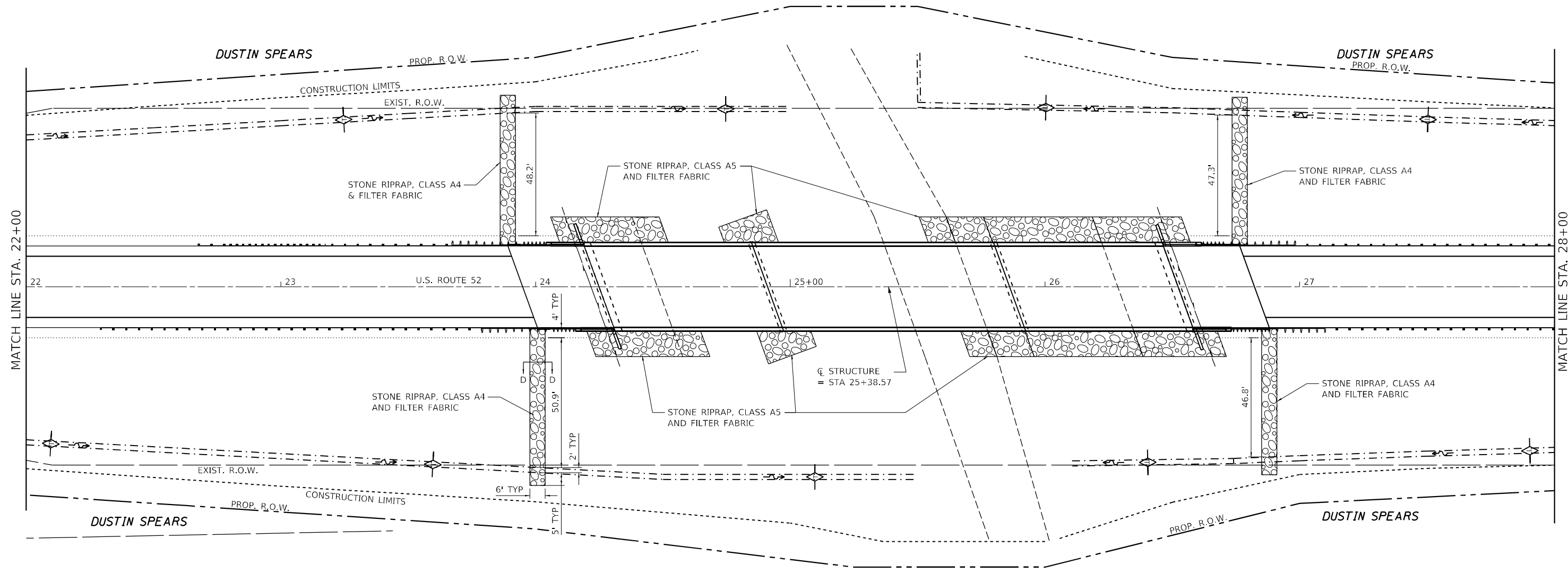
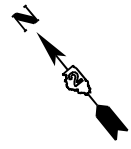
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PLOT DATE = 6/22/2022	DATE - JUNE 22, 2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 52 OVER ELKHORN CREEK
EROSION CONTROL PLAN

SCALE: 40,0008 ' / in. SHEET OF SHEETS STA. 16+00 TO STA. 22+00

F.A.S. RTE. 2079	SECTION 16BR-1	COUNTY OGLE	TOTAL SHEETS 130	SHEET NO. 35
CONTRACT NO. 64H57				
ILLINOIS FED. AID PROJECT				



SECTION D-D

- EROSION LEGEND**
- PERIMETER EROSION BARRIER
 - TEMPORARY DITCH CHECK
 - INLET AND PIPE PROTECTION



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The Upchurch Group
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 Professional Design Firm Corporation
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 123 North 150 Street
 Maitland, FL 32751
 Phone: 317.253.3177
 Email: upchurchgroup@upchurchgroup.com

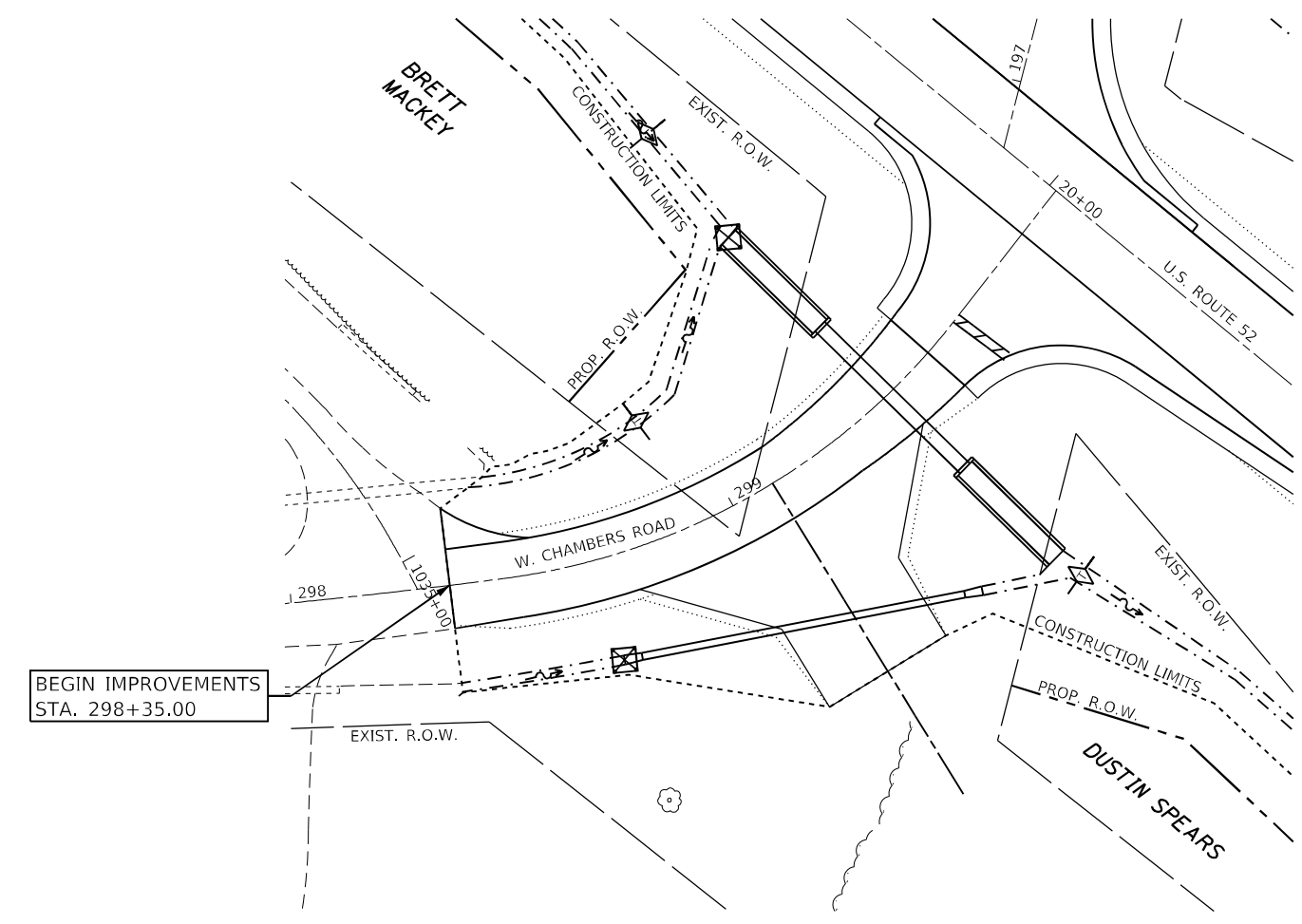
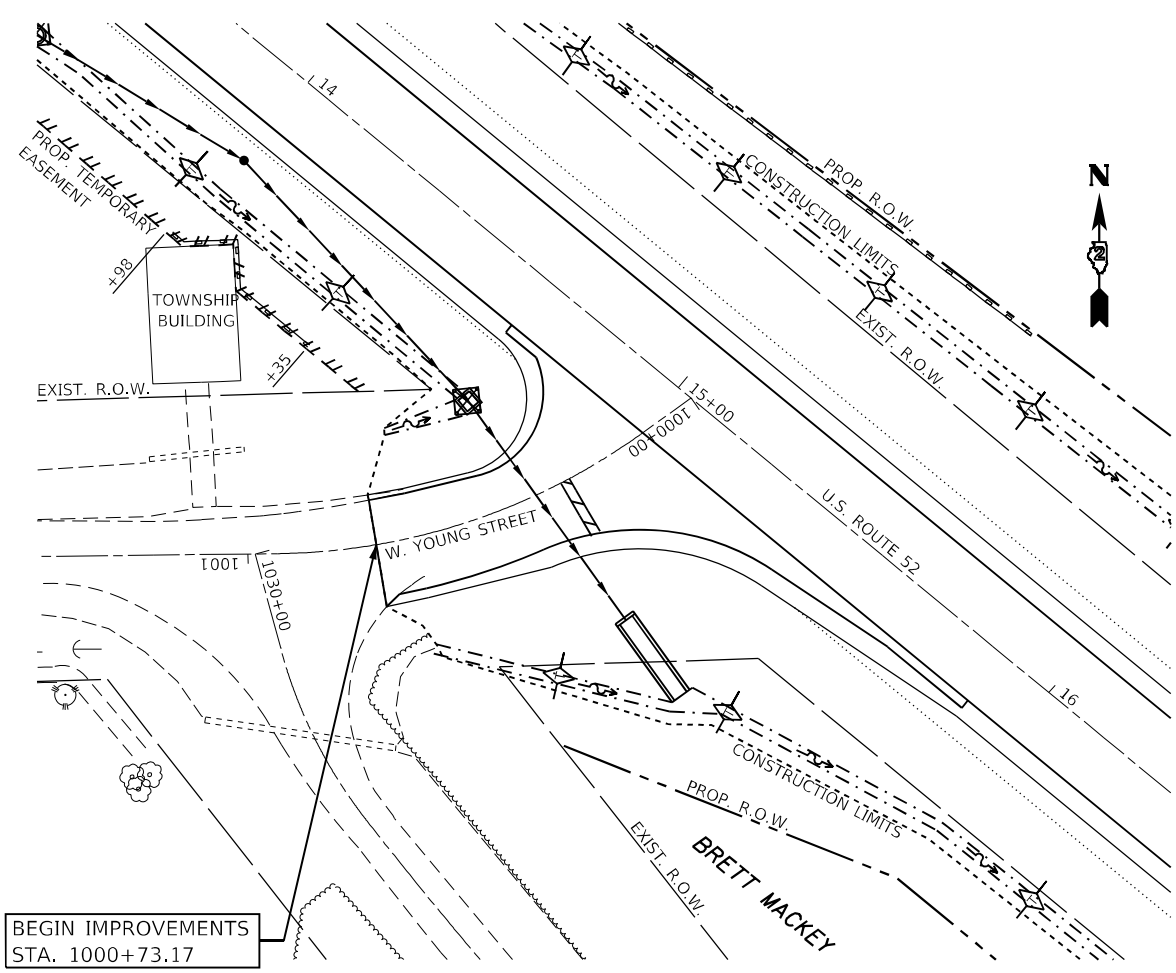
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION




US ROUTE 52 OVER ELKHORN CREEK
EROSION CONTROL PLAN

SCALE: 40,0000 ' / in. SHEET OF SHEETS STA. 22+00 TO STA. 28+00

F.A.S. RTE. 2079	SECTION 16BR-1	COUNTY OGLE	TOTAL SHEETS 130	SHEET NO. 36
CONTRACT NO. 64H57			ILLINOIS FED. AID PROJECT	



EROSION LEGEND

-  PERIMETER EROSION BARRIER
-  TEMPORARY DITCH CHECK
-  INLET AND PIPE PROTECTION

0 20 40 60
SCALE IN FEET

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 123 North 15th Street
 Mankato, IL 61308
 Phone: 217.253.1377
 License No. 154-001401
 email: upchurchgroup@upchurchgroup.com

USER NAME = Sta42	DESIGNED - SJF	REVISED -
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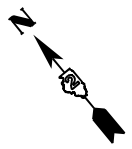
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

W. YOUNG STREET AND W. CHAMBERS STREET
EROSION CONTROL PLAN

SCALE: 40,0000' / in. SHEET OF SHEETS STA. TO STA.

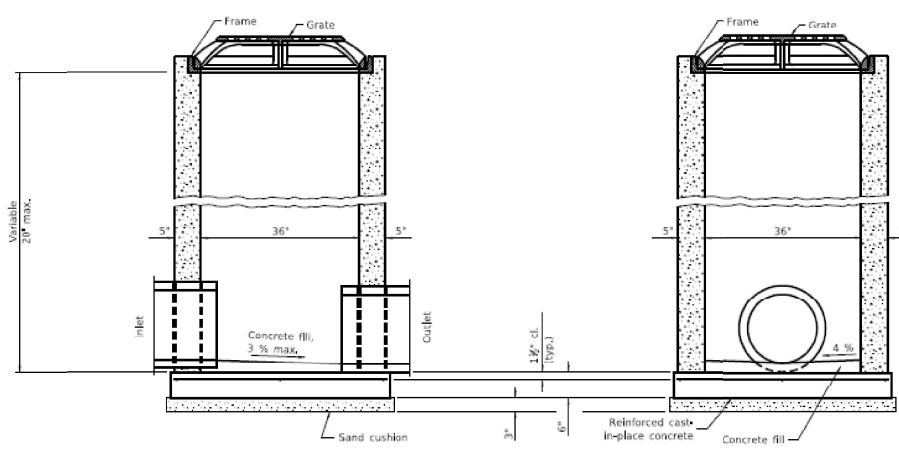
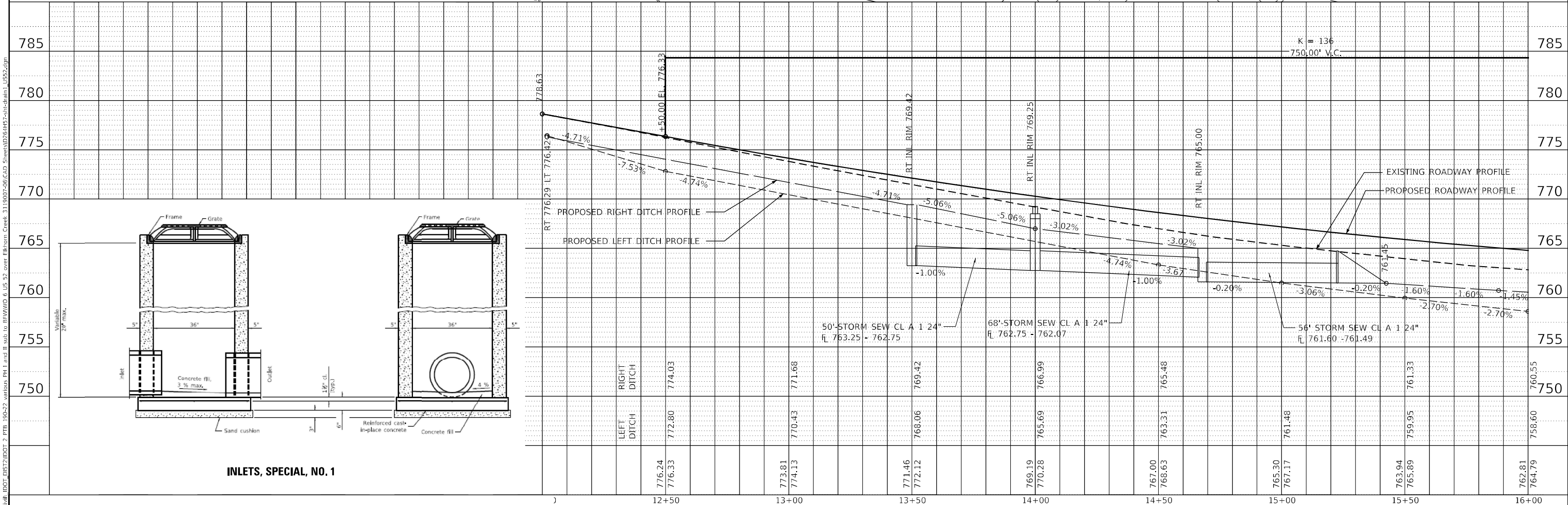
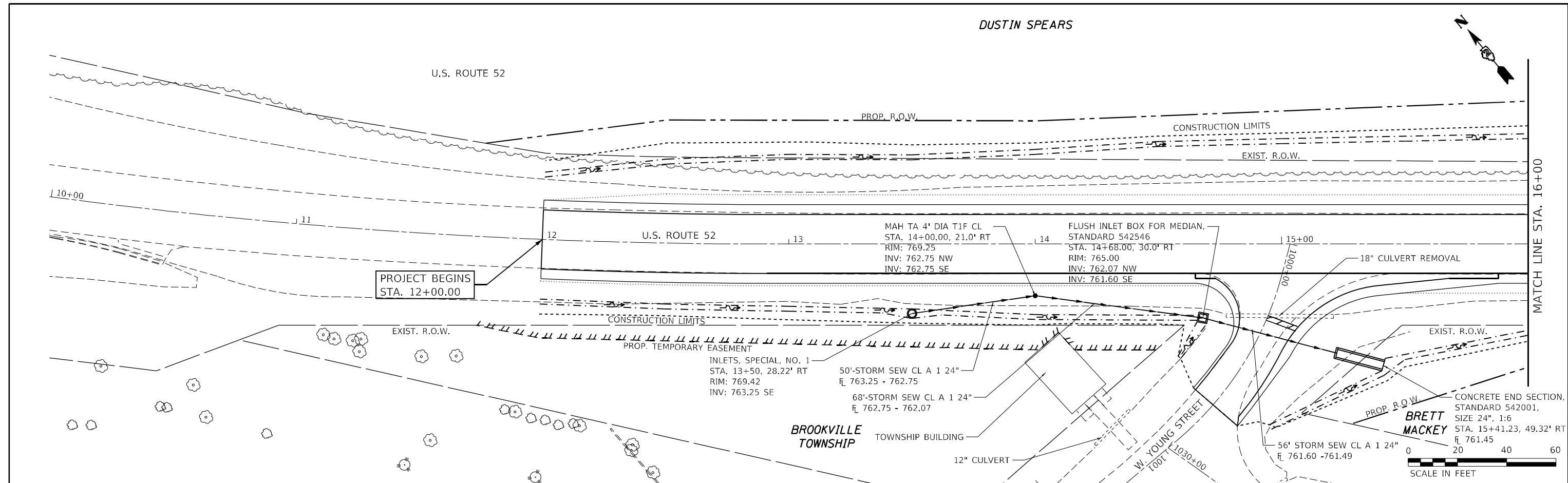
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CONTRACT NO. 64H57				
ILLINOIS FED. AID PROJECT				

DUSTIN SPEARS



PLAN	SURVEYED	DATE
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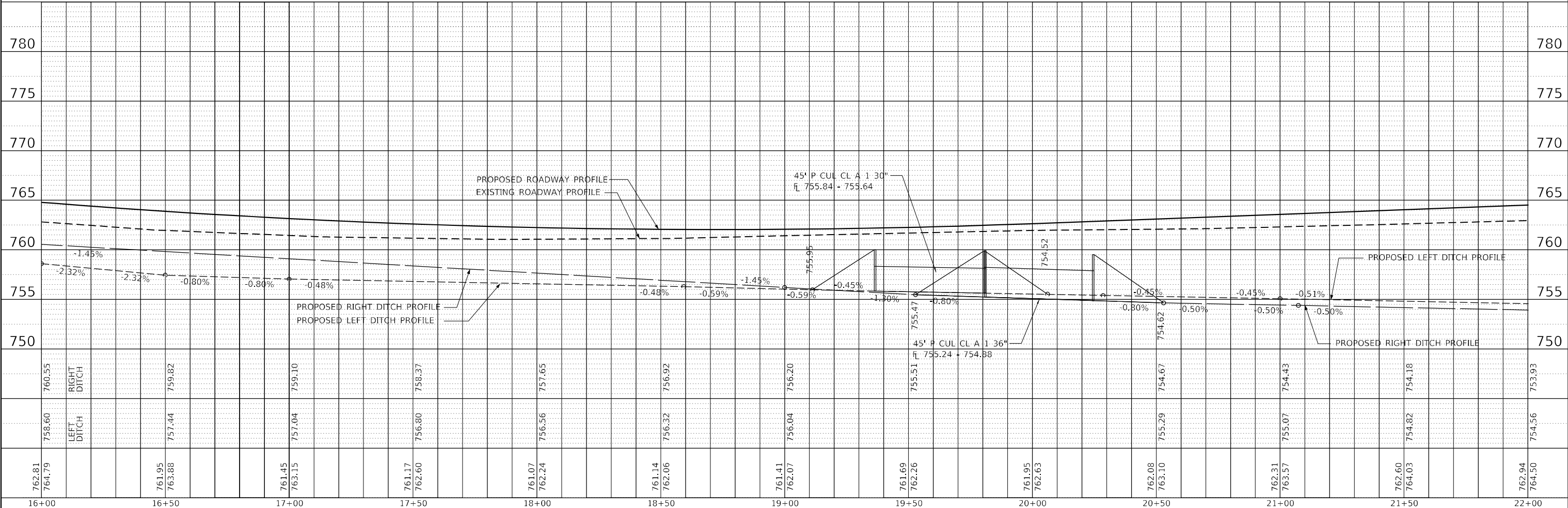
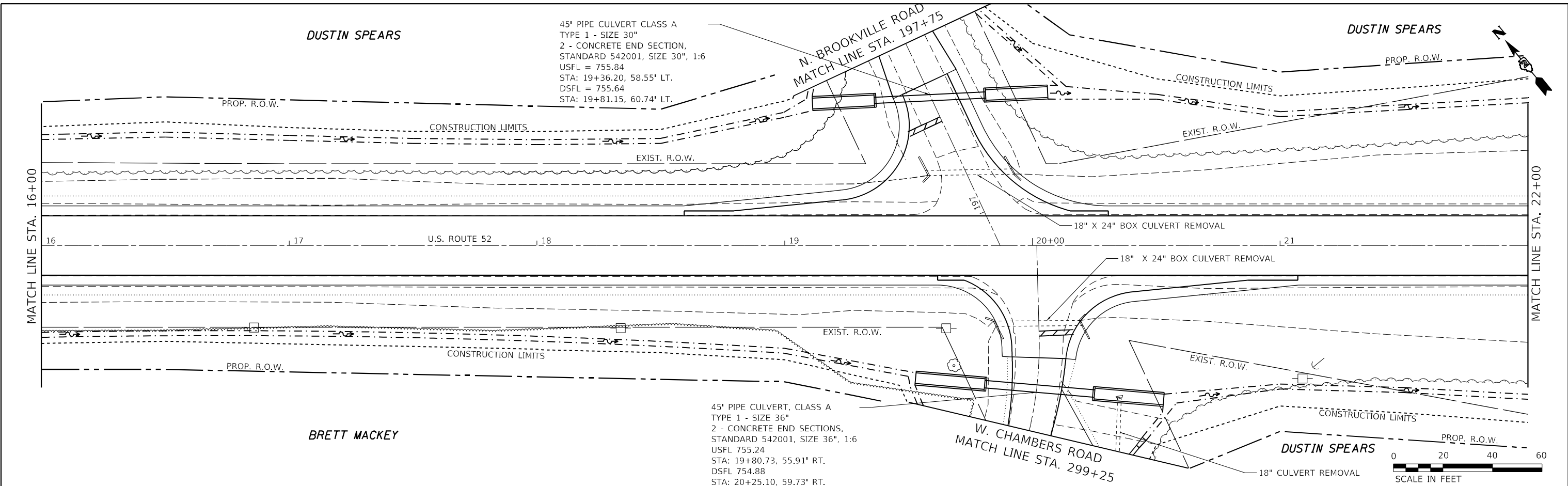
INLETS, SPECIAL, NO. 1

The Upchurch Group architects engineers surveyors 123 North 15th Street Moline, IL 61908 Phone: 312.253.3177 License No. 181-003401 Email: upchurchgroup@upchurchgroup.com	USER NAME = Sla37 TUG PROJECT NO. 3119007-06 PLOT SCALE = 40,0000 ' / in. PLOT DATE = 6/23/2022	DESIGNED - SJF DRAWN - TLW CHECKED - SJF DATE - JUNE 22, 2022	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US ROUTE 52 OVER ELKHORN CREEK DRAINAGE PLAN AND PROFILE	F.A.S. RTE. 2079 SECTION 16BR-1 COUNTY OGLE TOTAL SHEETS 130 SHEET NO. 40	CONTRACT NO. 64H57 ILLINOIS FED. AID PROJECT
	SCALE: 40,0000 ' / in. SHEET OF SHEETS STA. 10+00 TO STA. 16+00						

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	ALIGNED	CHECKED
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 Email: upchurchgroup@upchurchgroup.com

USER NAME = Sta42
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 PLOT DATE = 6/22/2022

DESIGNED - SJF
 DRAWN - TLW
 CHECKED - SJF
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REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

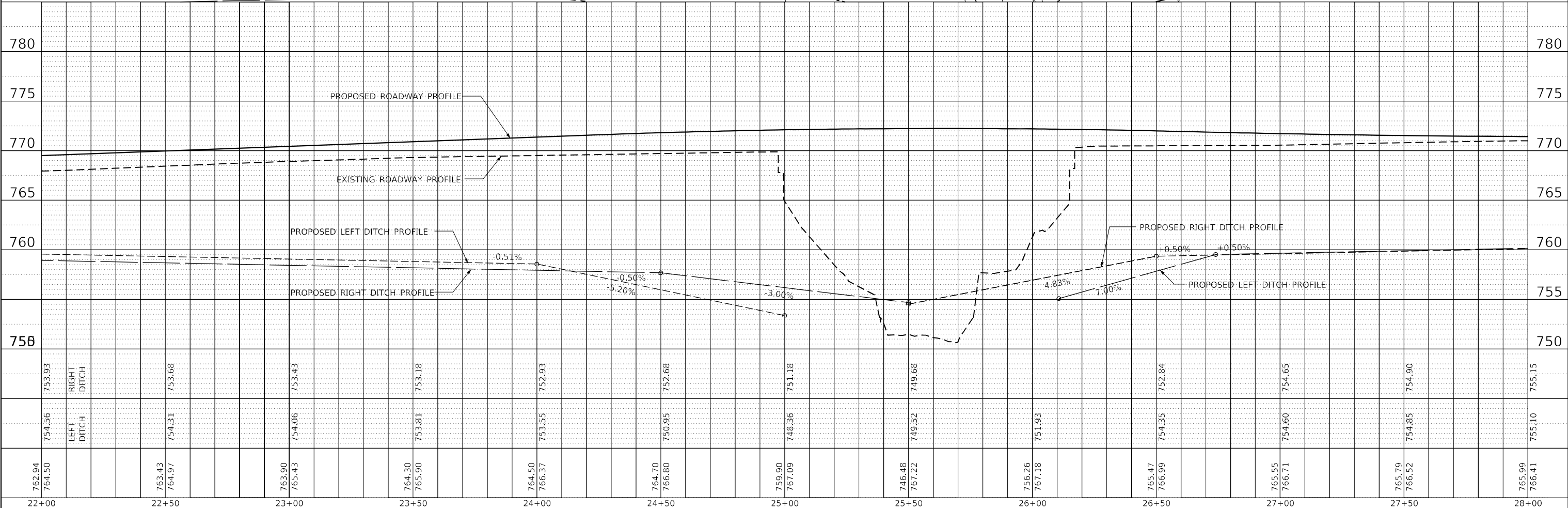
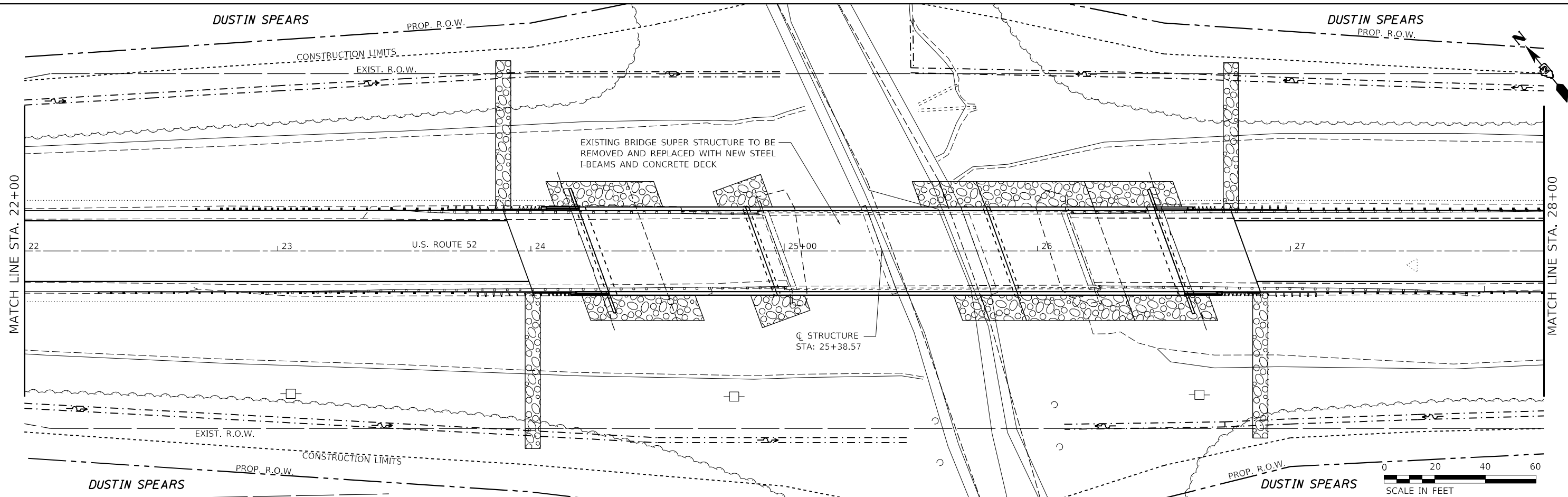
US ROUTE 52 OVER ELKHORN CREEK
DRAINAGE PLAN AND PROFILE
 SCALE: 40,0000' / in. SHEET OF SHEETS STA. 16+00 TO STA. 22+00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	41
CONTRACT NO. 64H57				
ILLINOIS FED. AID PROJECT				

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USER NAME = Sta42
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DESIGNED - SJF
 DRAWN - TLW
 CHECKED - SJF
 DATE - JUNE 22, 2022

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

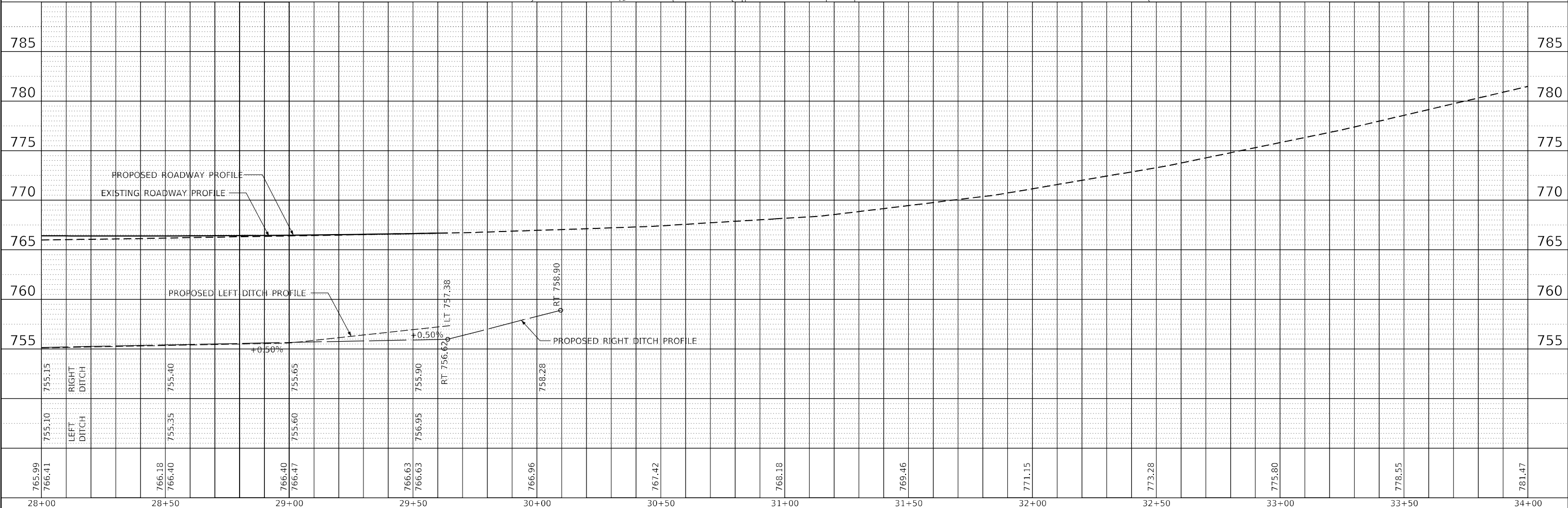
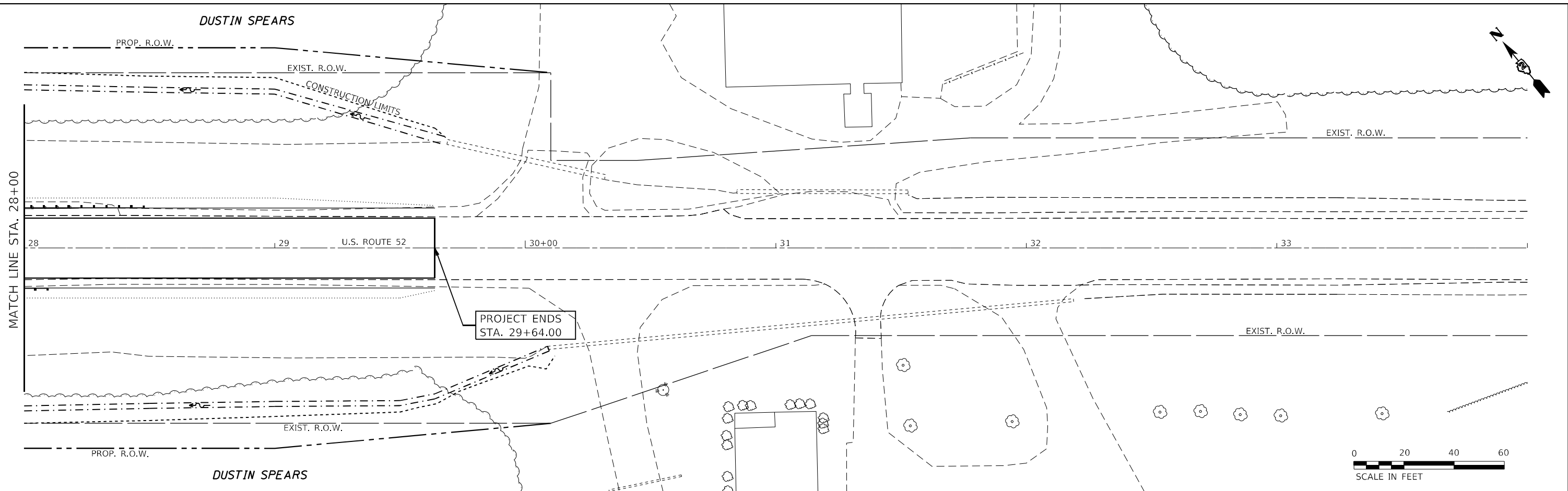
US ROUTE 52 OVER ELKHORN CREEK
DRAINAGE PLAN AND PROFILE
 SCALE: 40,0000 ' / in. SHEET OF SHEETS STA. 22+00 TO STA. 28+00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	168R-1	OGLE	130	42
CONTRACT NO. 64H57				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
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 PLOT DATE = 6/22/2022



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 Moline, IL 61908
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 License No. 184-003401
 Email: upchurchgroup@upchurchgroup.com

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 TUG PROJECT NO. 3119007-06
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 PLOT DATE = 6/22/2022

DESIGNED - SJF
 DRAWN - TLW
 CHECKED - SJF
 DATE - JUNE 22, 2022

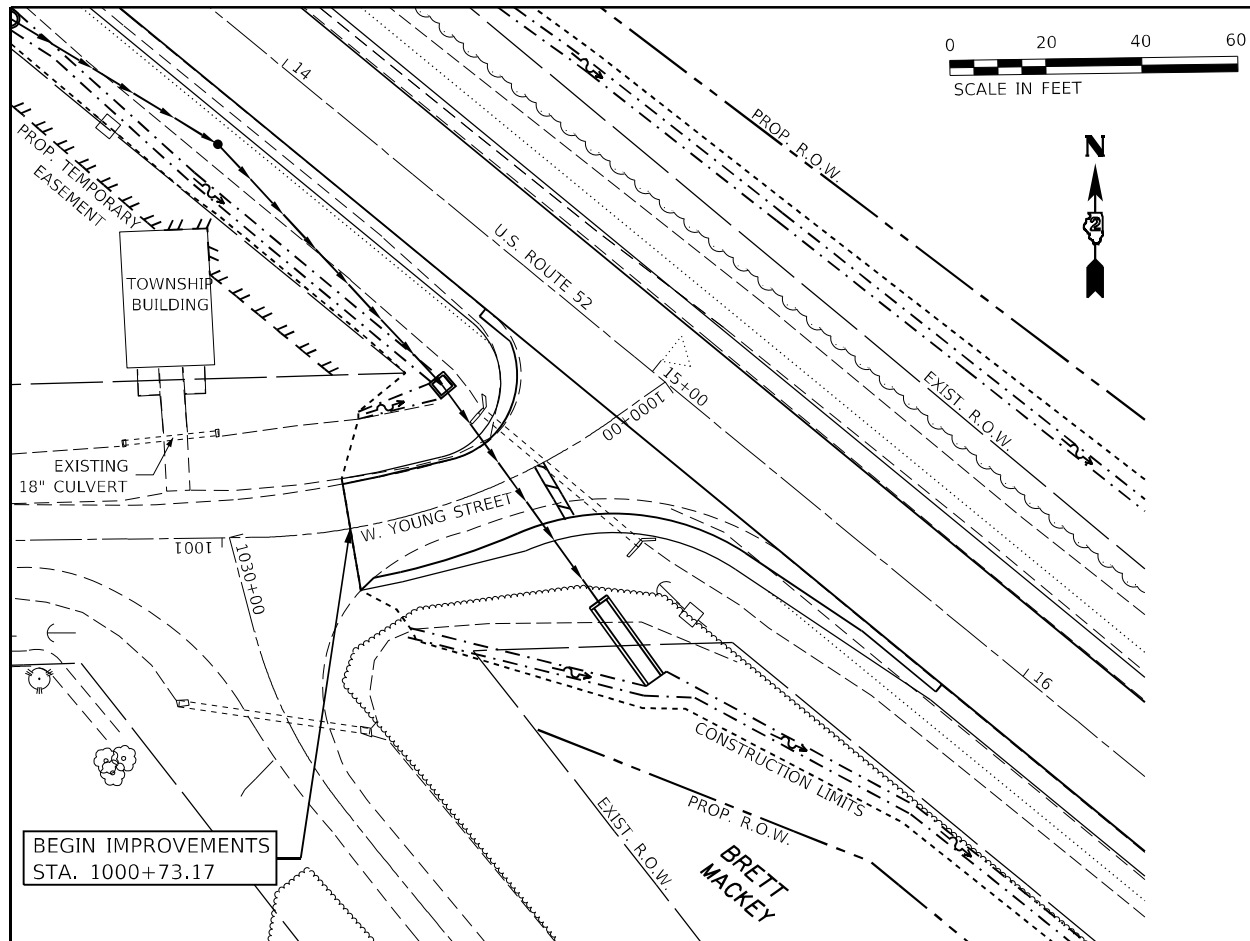
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

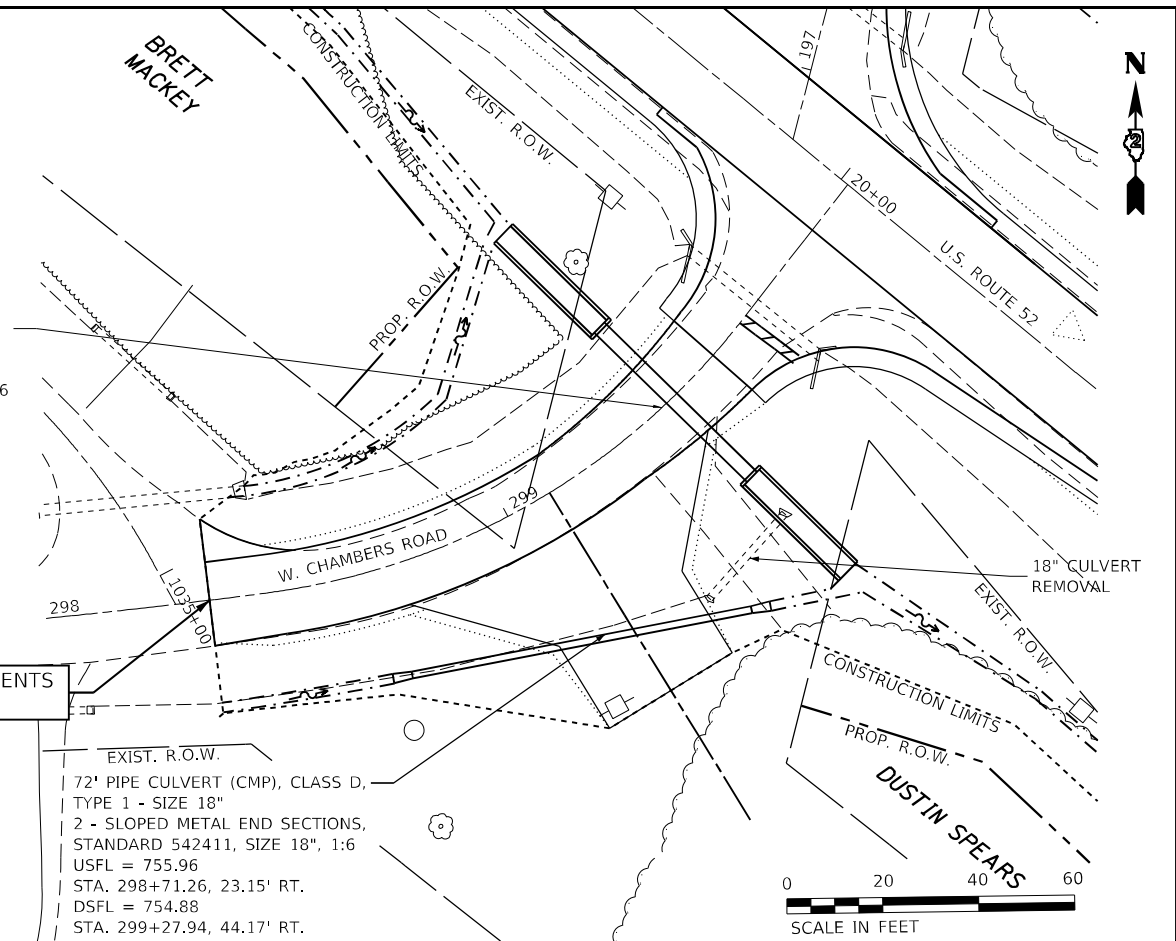
**US ROUTE 52 OVER ELKHORN CREEK
 DRAINAGE PLAN AND PROFILE**
 SCALE: 40,0000 ' / in. SHEET OF SHEETS STA. 28+00 TO STA. 34+00

F.A.S. RTE. 2079	SECTION 16BR-1	COUNTY OGLE	TOTAL SHEETS 130	SHEET NO. 43
CONTRACT NO. 64H57			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	
	CHECKED	
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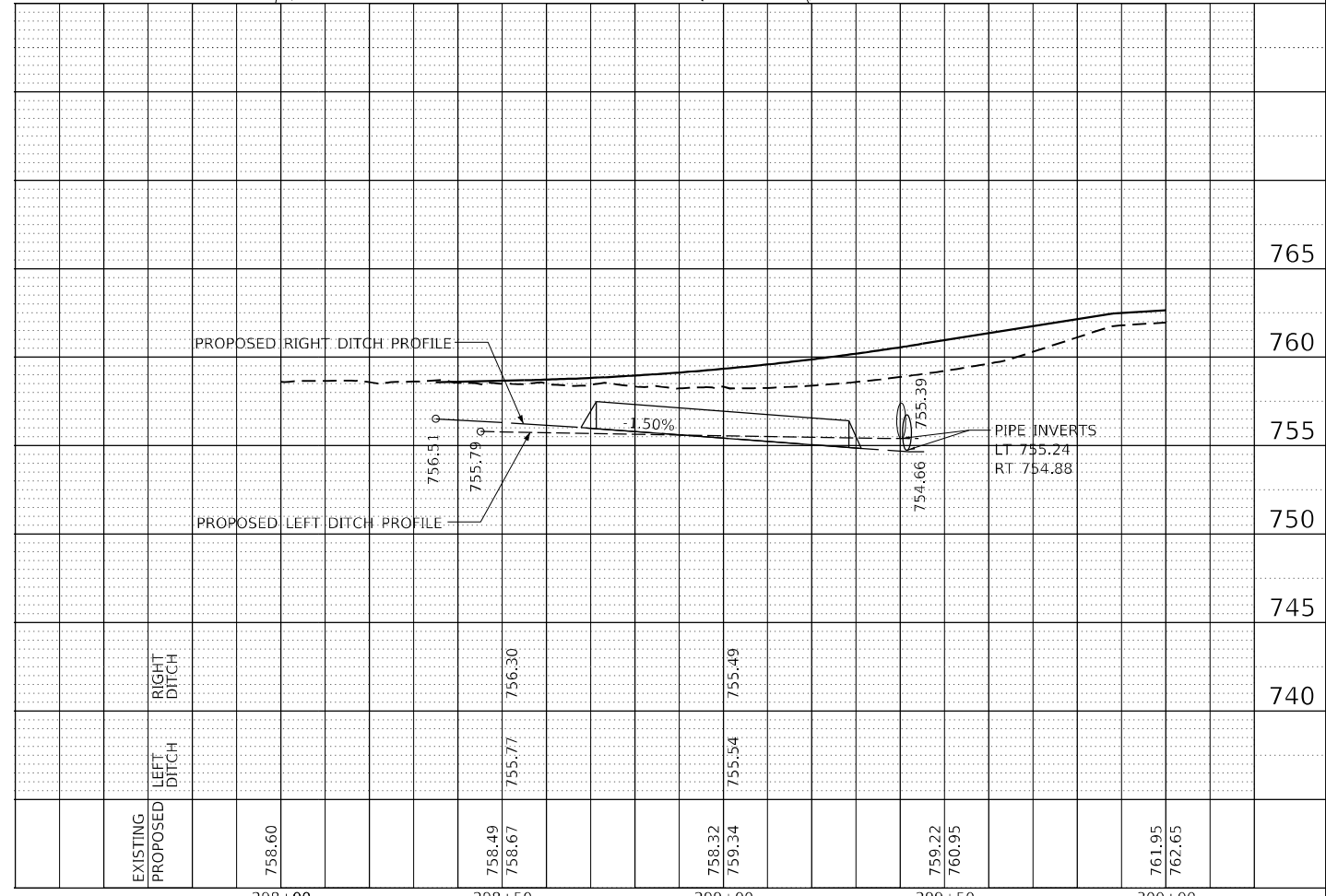
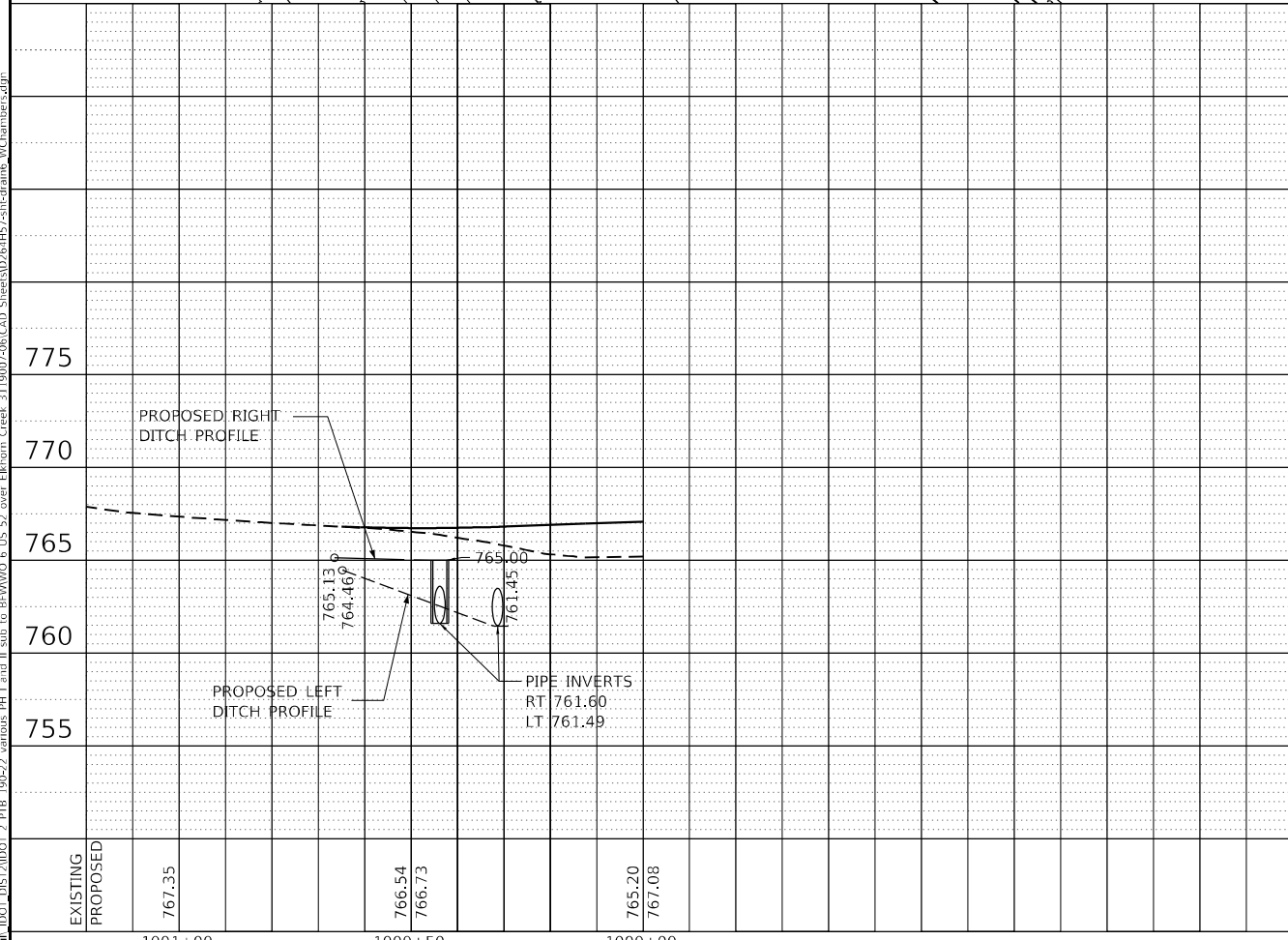


45' PIPE CULVERT, CLASS A
 TYPE 1 - SIZE 36"
 2 - CONCRETE END SECTIONS,
 STANDARD 542001, SIZE 36", 1:6
 USFL 755.24
 STA: 299+41.46, 21.07' LT.
 DSFL 754.88
 STA: 299+42.86, 23.44' RT.



EXIST. R.O.W.
 72' PIPE CULVERT (CMP), CLASS D,
 TYPE 1 - SIZE 18"
 2 - SLOPED METAL END SECTIONS,
 STANDARD 542411, SIZE 18", 1:6
 USFL = 755.96
 STA. 298+71.26, 23.15' RT.
 DSFL = 754.88
 STA. 299+27.94, 44.17' RT.

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CIPWD	
	NO.	



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 License No. 181-003401
 Email: upchurchgroup@upchurchgroup.com

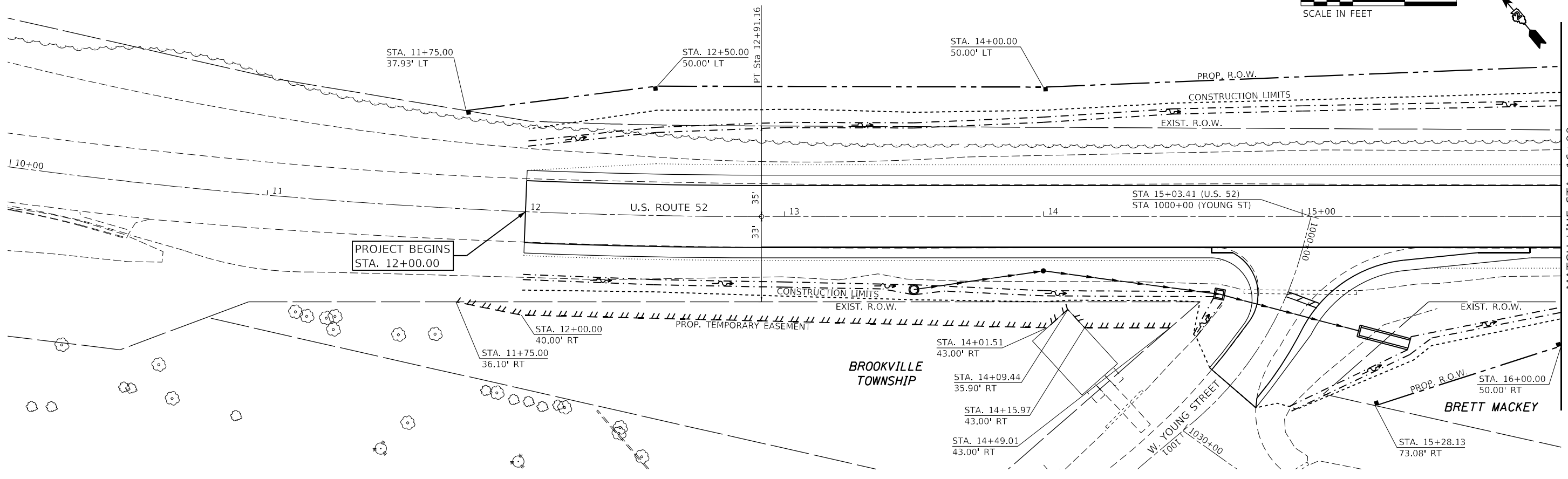
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DRAWN -	TLW
CHECKED -	SJF
DATE -	JUNE 22, 2022
REVISED -	
REVISED -	
REVISED -	
REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

W. YOUNG STREET AND W. CHAMBERS STREET			
DRAINAGE PLAN AND PROFILE			
SCALE: 40,0000 ' / in.	SHEET	OF	SHEETS
STA.			TO STA.

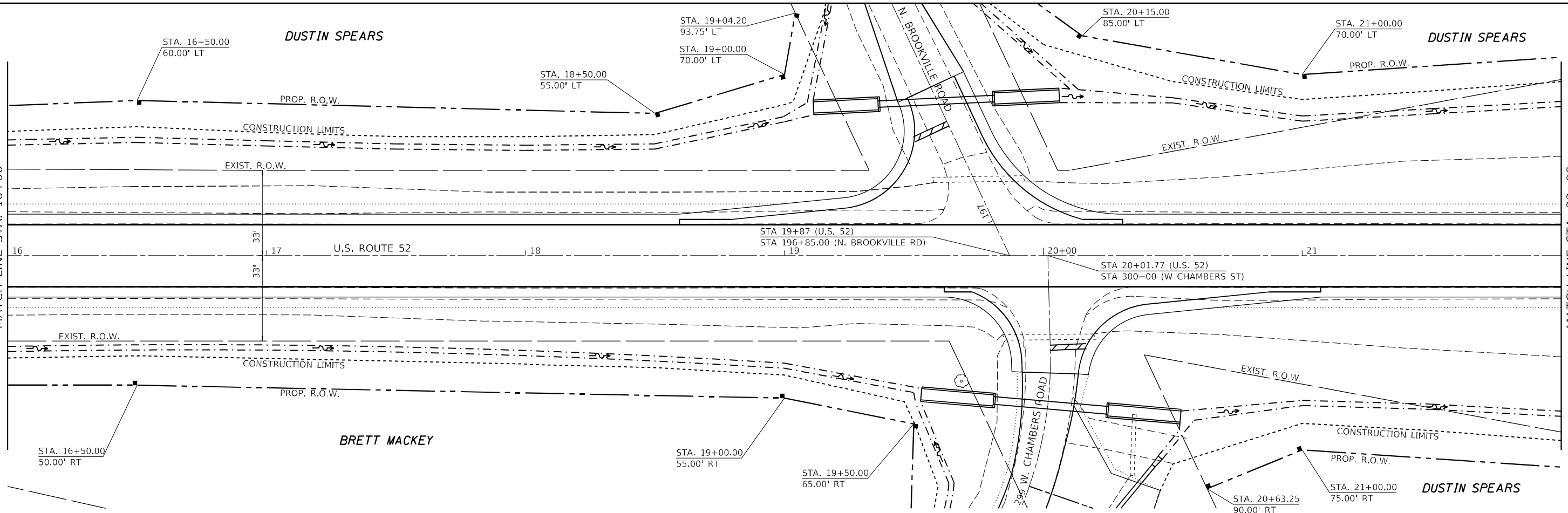
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	45
CONTRACT NO. 64H57				
ILLINOIS FED. AID PROJECT				

DUSTIN SPEARS



DUSTIN SPEARS

DUSTIN SPEARS



MODEL: P:\dustin\110007\110007.dwg; USER: dustin; PLOT: 110007.dwg; PLOT DATE: 6/22/2022; FILE NAME: P:\dustin\110007\110007.dwg; SHEET: 110007.dwg; SHEET NO.: 110007.dwg; SHEET TOTAL: 110007.dwg

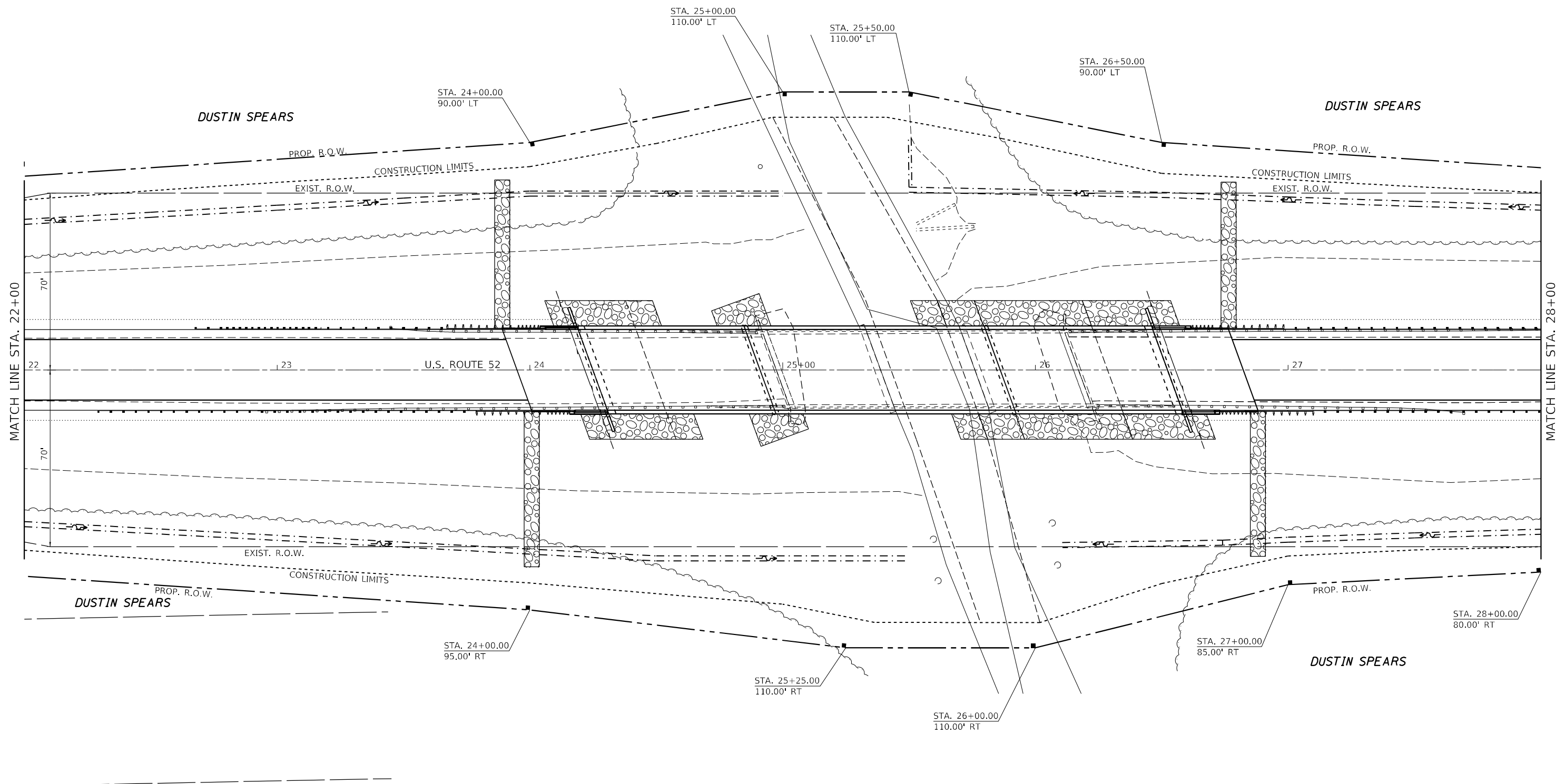
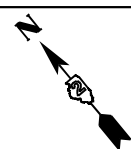
The Upchurch Group
architects engineers surveyors
Professional Design Firm Corporation
123 North 150 Street
Marengo, IL 61758
Phone: 317.253.1377
License No. 184-003401
email: upchurchgroup@upchurchgroup.com

USER NAME = Sta42	DESIGNED - SJF	REVISED -
TUG PROJECT NO. 3119007-06	DRAWN -	REVISED -
PLOT SCALE = 40,0000' / in.	CHECKED - SJF	REVISED -
PLOT DATE = 6/22/2022	DATE - JUNE 22, 2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 52 OVER ELKHORN CREEK
RIGHT-OF-WAY PLAN
SCALE: 40,0000' / in. SHEET OF SHEETS STA. 10+00 TO STA. 22+00

F.A.S. RTE. 2079	SECTION 16BR-1	COUNTY OGLE	TOTAL SHEETS 130	SHEET NO. 46
CONTRACT NO. 64H57				
ILLINOIS FED. AID PROJECT				



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 Professional Design Firm Corporation
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USER NAME = Sta42	DESIGNED - SJF	REVISED -
TUG PROJECT NO. 3119007-06	DRAWN -	REVISED -
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PLOT DATE = 6/22/2022	DATE - JUNE 22, 2022	REVISED -

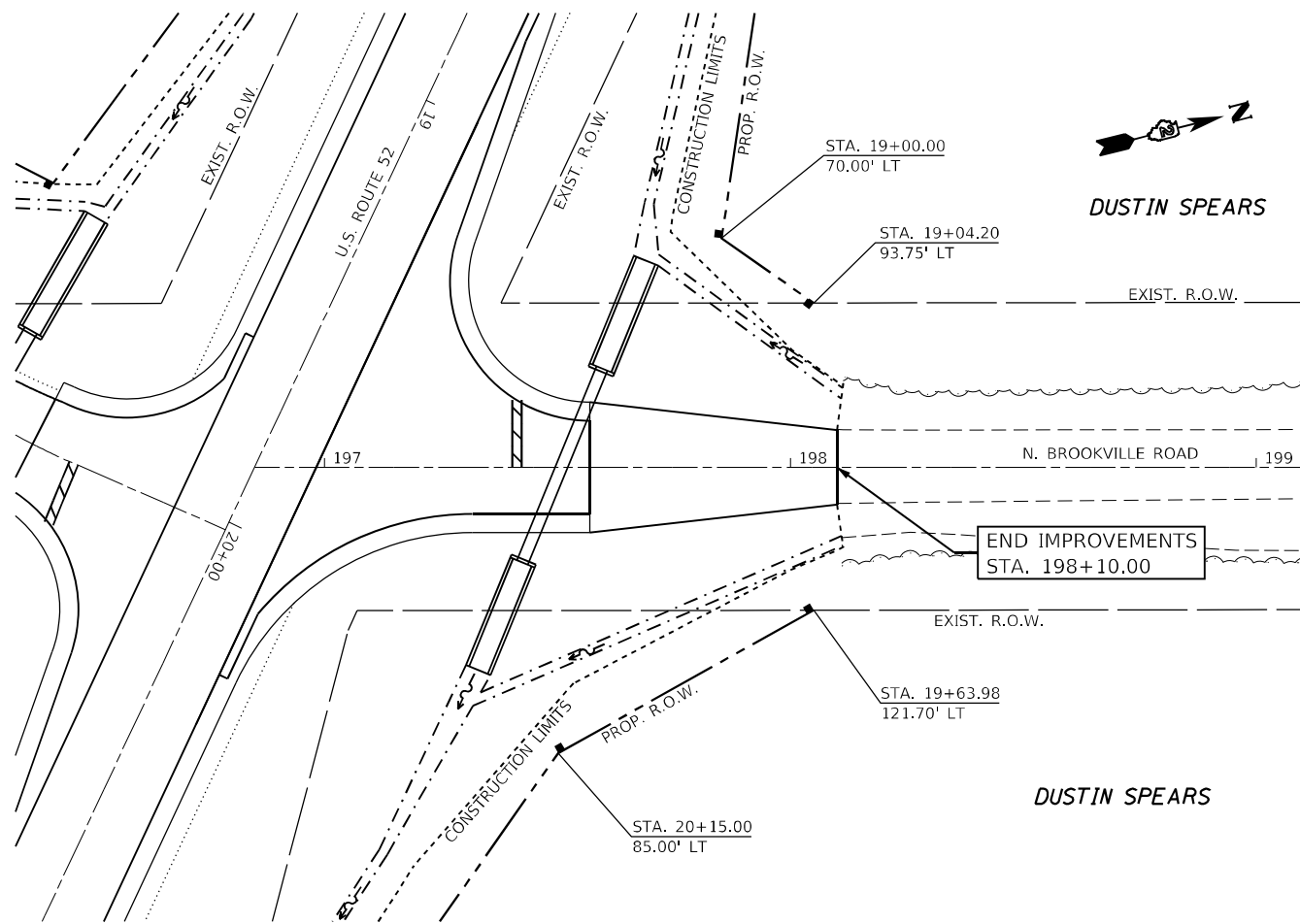
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 52 OVER ELKHORN CREEK
RIGHT-OF-WAY PLAN

SCALE: 40,0000 ' / in. SHEET OF SHEETS STA. 22+00 TO STA. 28+00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	47
CONTRACT NO. 64H57				
ILLINOIS FED. AID PROJECT				

MODEL Path: \\... IDOT_DIST\IDOT_2_PFB_190-22_norfolk_PH_1_and_II_sub_to_BMWVO_6_US_52_over_Elkhorn_Creek_3119007-06\CAD_Sheets\02644875\right_r.o.w_04_NBrookville.dgn
 FILE NAME: p1c.dwg
 Professional Design Firm Corporation
 License No. 184-002401
 e-mail: upchurchgroup@upchurchgroup.com



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 153 North 15th Street
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USER NAME =	Sta42	DESIGNED -	SJF	REVISED -	
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PLOT DATE =	6/22/2022	DATE -	JUNE 22, 2022	REVISED -	

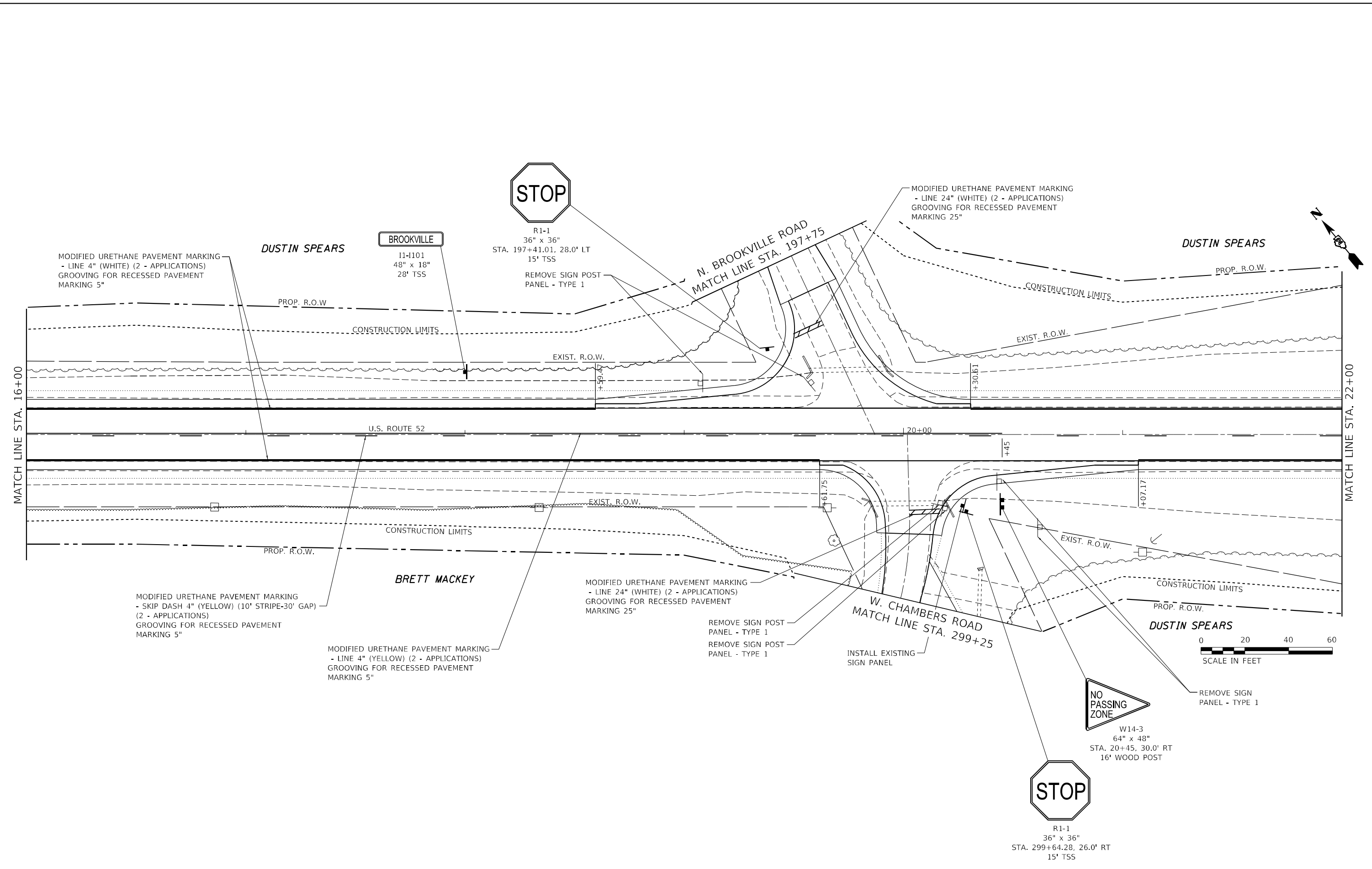
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH BROOKVILLE ROAD
RIGHT-OF-WAY PLAN

SCALE: 40,0018' / in. SHEET OF SHEETS STA. 196+85 TO STA. 198+10

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	49
CONTRACT NO. 64H57				
ILLINOIS FED. AID PROJECT				

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 DATE: 6/22/2022



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 123 North 15th Street
 Mankato, IL 61308
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USER NAME = Sta42	DESIGNED - SJF	REVISED -
TUG PROJECT NO. 3119007-06	DRAWN -	REVISED -
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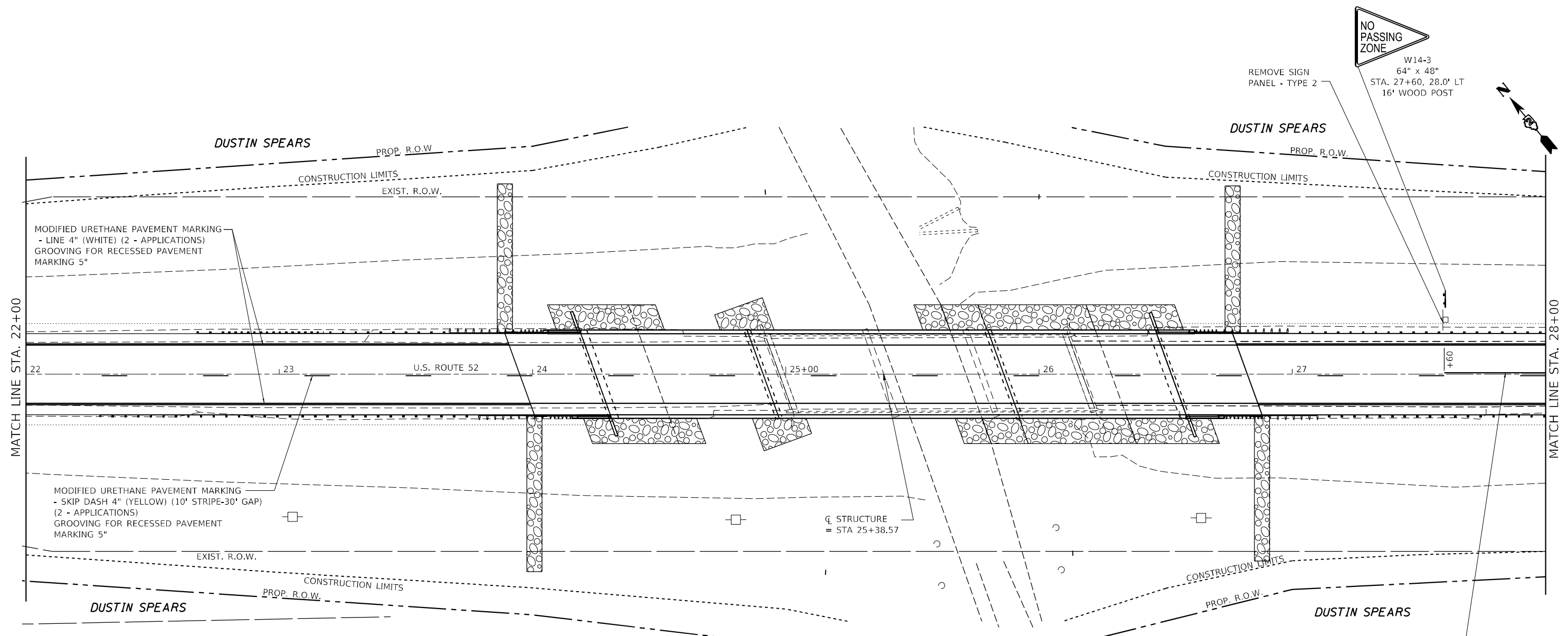
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 52 OVER ELKHORN CREEK
STRIPING AND SIGNING PLAN

SCALE: 40,0008 ' / in. SHEET OF SHEETS STA. 16+00 TO STA. 22+00

F.A.S. RTE. 2079	SECTION 16BR-1	COUNTY OGLE	TOTAL SHEETS 130	SHEET NO. 52
CONTRACT NO. 64H57				
ILLINOIS FED. AID PROJECT				

MODEL Path: \\p1\c\p\DOT_DIST\DOT_2_PTB_190-22_wdr\06_U.S. 52 over Elkhorn Creek_3119007-06_CAD_Sheet\02\4187\shp\pmk\g03_US52.dgn
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MODIFIED URETHANE PAVEMENT MARKING
 - LINE 4" (WHITE) (2 - APPLICATIONS)
 GROOVING FOR RECESSED PAVEMENT MARKING 5"

MODIFIED URETHANE PAVEMENT MARKING
 - SKIP DASH 4" (YELLOW) (10' STRIPE-30' GAP)
 (2 - APPLICATIONS)
 GROOVING FOR RECESSED PAVEMENT MARKING 5"

STRUCTURE
 = STA 25+38.57

MODIFIED URETHANE PAVEMENT MARKING
 - LINE 4" (YELLOW) (2 - APPLICATIONS)
 GROOVING FOR RECESSED PAVEMENT MARKING 5"

NO PASSING ZONE
 W14-3
 64" x 48"
 STA. 27+60, 28.0' LT
 16' WOOD POST



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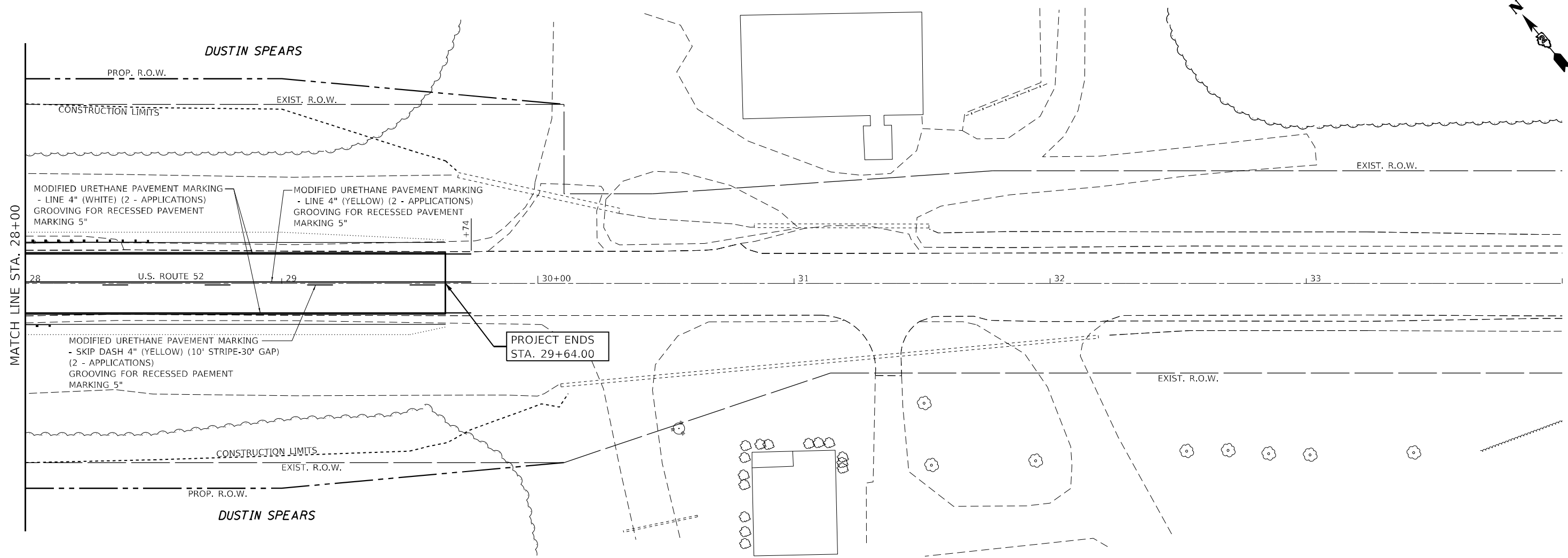
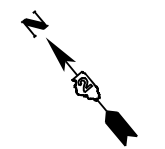
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PLOT DATE = 6/22/2022	DATE - JUNE 22, 2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 52 OVER ELKHORN CREEK
STRIPING AND SIGNING PLAN

SCALE: 40,0000' / in. SHEET OF SHEETS STA. 22+00 TO STA. 28+00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	53
CONTRACT NO. 64H57				
ILLINOIS FED. AID PROJECT				



MATCH LINE STA. 28+00

**PROJECT ENDS
STA. 29+64.00**



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over Elkhorn Creek 3119007-06.CAD Sheet\2024\1687-shr-ppk-004_US52.dgn

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USER NAME = Sta42	DESIGNED - SJF	REVISED -
TUG PROJECT NO. 3119007-06	DRAWN -	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED - SJF	REVISED -
PLOT DATE = 6/22/2022	DATE - JUNE 22, 2022	REVISED -

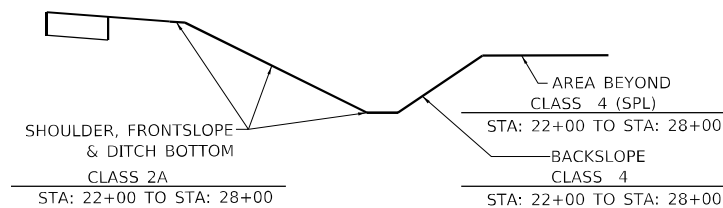
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US ROUTE 52 OVER ELKHORN CREEK
STRIPING AND SIGNING PLAN**

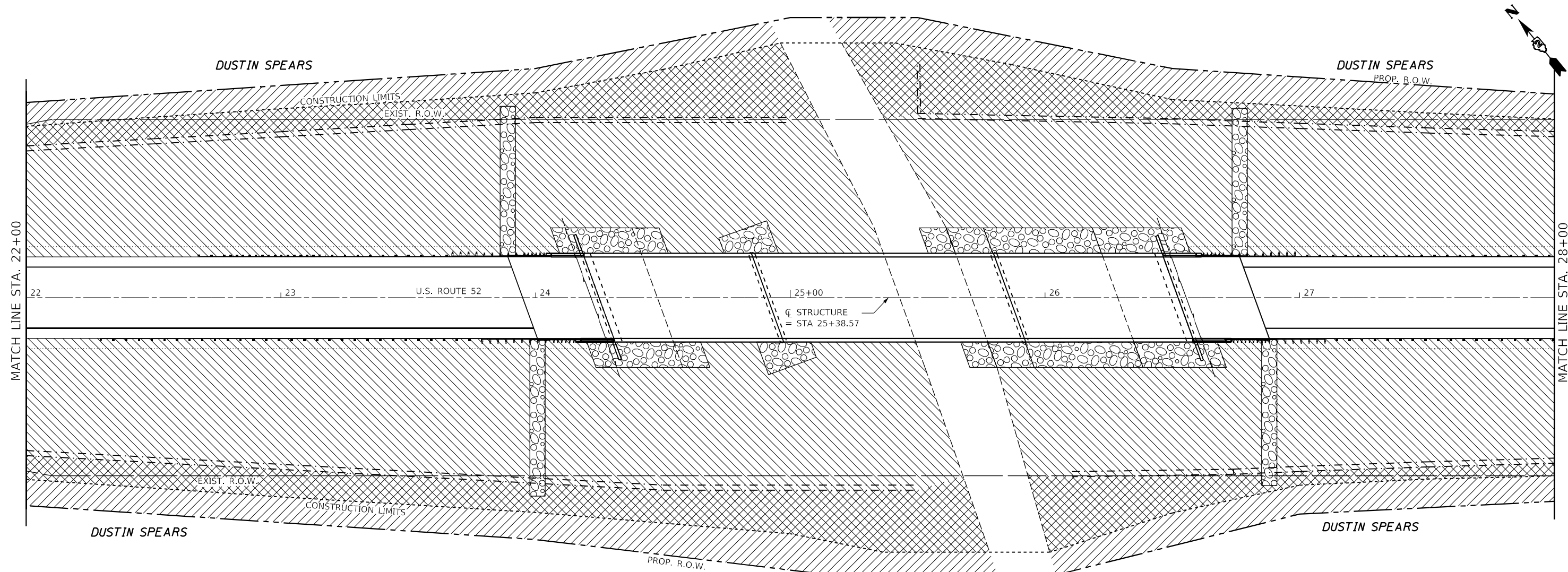
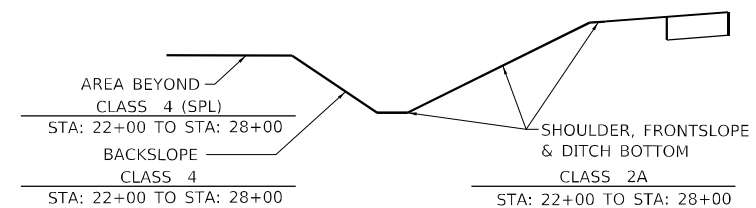
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	54
CONTRACT NO. 64H57				
ILLINOIS FED. AID PROJECT				

SEEDING DETAIL – RIGHT DITCH



SEEDING DETAIL – LEFT DITCH



LANDSCAPE LEGEND

- SEEDING, CLASS 1A
- SEEDING, CLASS 2A
- SEEDING, CLASS 4
- SEEDING, CLASS 4 (SPECIAL)
- TURF REINFORCEMENT MAT



MODEL: P:\645\H...
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 190-22...
 over Elkhorn Creek...
 3119007-06\CAD_Sheets\0264H57-right-landscape3_US52.dgn

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 email: upchurchgroup@upchurchgroup.com

USER NAME = Sta42	DESIGNED - SJF	REVISED -
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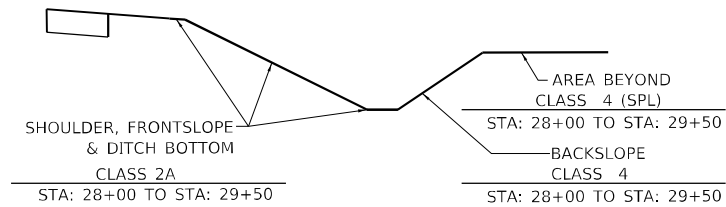
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**US ROUTE 52 OVER ELKHORN CREEK
 LANDSCAPE PLAN**

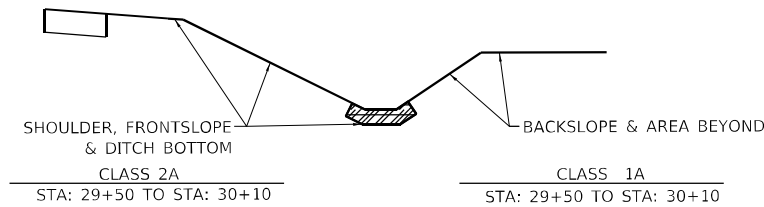
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F.A.S. RTE. 2079	SECTION 16BR-1	COUNTY OGLE	TOTAL SHEETS 130	SHEET NO. 57
			CONTRACT NO. 64H57	
ILLINOIS FED. AID PROJECT				

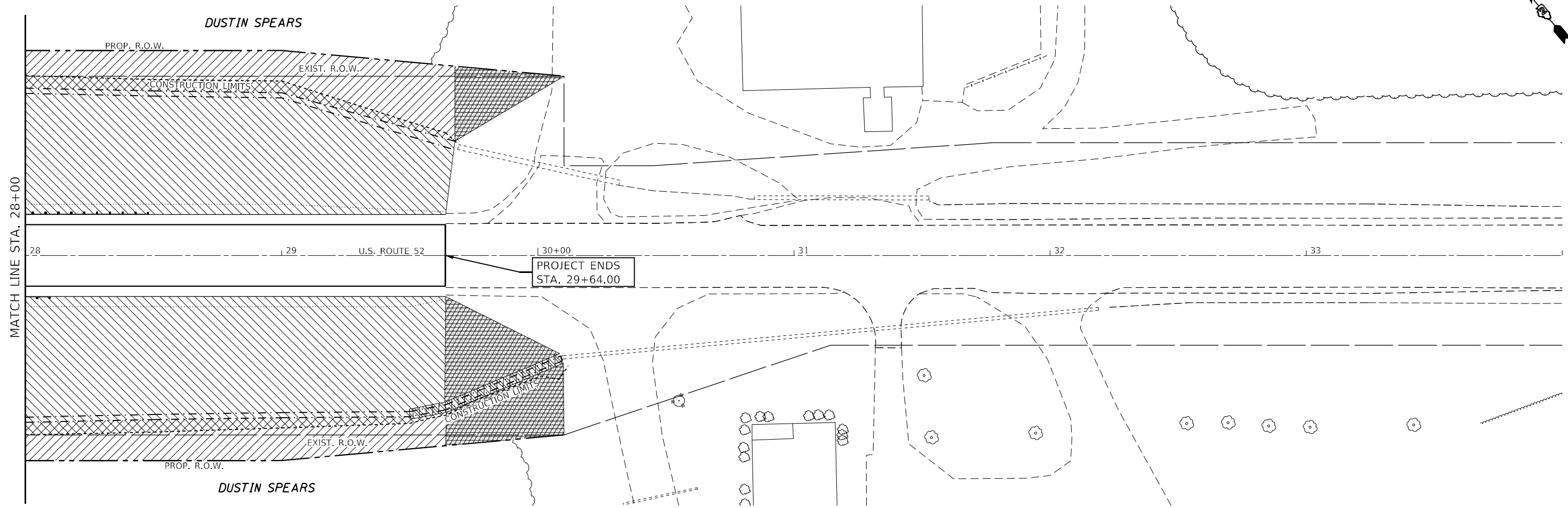
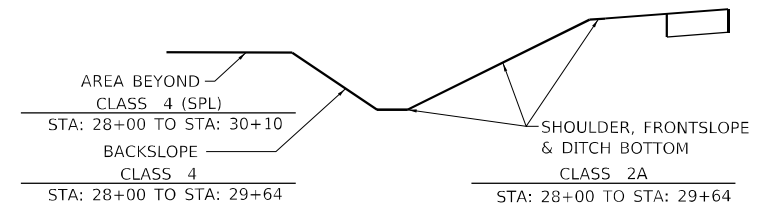
SEEDING DETAIL – RIGHT DITCH



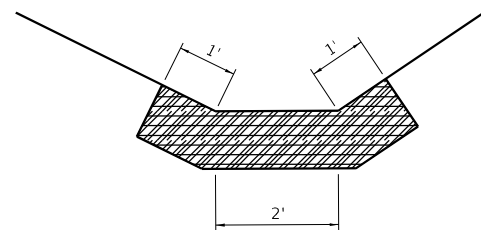
SEEDING DETAIL – RIGHT DITCH








SEEDING DETAIL – LEFT DITCH



TURF REINFORCEMENT MAT



LANDSCAPE LEGEND

-  SEEDING, CLASS 1A
-  SEEDING, CLASS 2A
-  SEEDING, CLASS 4
-  SEEDING, CLASS 4 (SPECIAL)
-  TURF REINFORCEMENT MAT



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USER NAME = Sta42	DESIGNED - SJF	REVISED -
TUG PROJECT NO. 3119007-06	DRAWN -	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED - SJF	REVISED -
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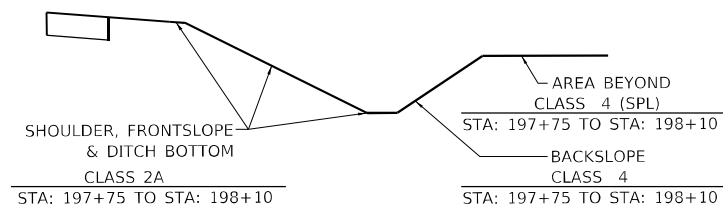
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 52 OVER ELKHORN CREEK
LANDSCAPE PLAN

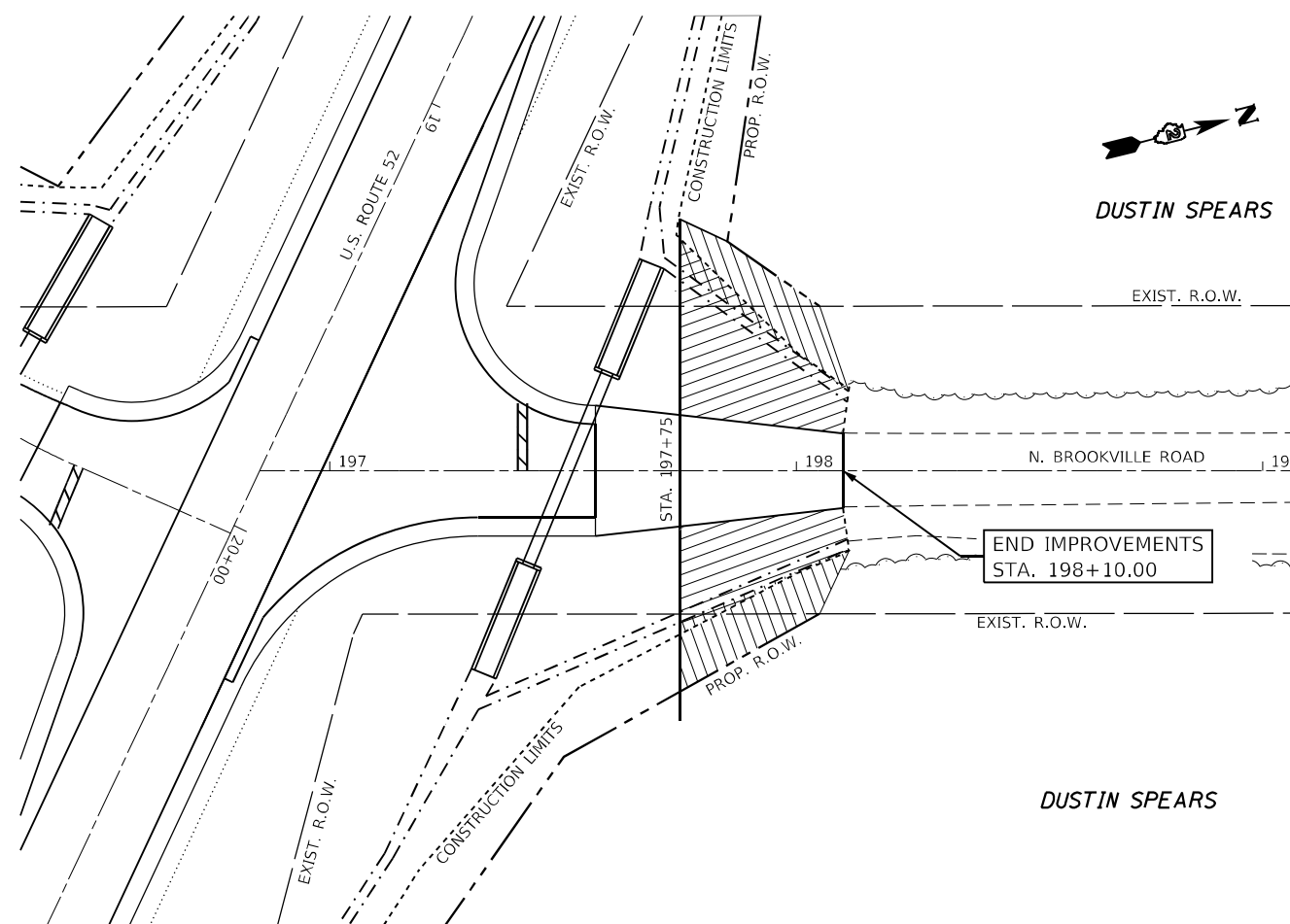
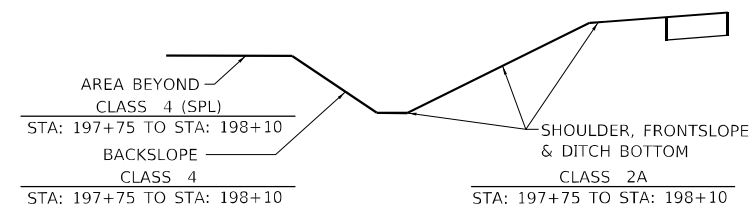
SCALE: 40,0000 ' / in. SHEET OF SHEETS STA. 28+00 TO STA. 34+00

F.A.S. RTE. 2079	SECTION 16BR-1	COUNTY OGLE	TOTAL SHEETS 130	SHEET NO. 58
			CONTRACT NO. 64H57	
ILLINOIS FED. AID PROJECT				






SEEDING DETAIL – RIGHT DITCH



SEEDING DETAIL – LEFT DITCH



LANDSCAPE LEGEND

-  SEEDING, CLASS 1A
-  SEEDING, CLASS 2A
-  SEEDING, CLASS 4
-  SEEDING, CLASS 4 (SPECIAL)
-  TURF REINFORCEMENT MAT



MODEL: D:\projects\190-22_northbrook\PH I and II sub to BFWVO 6 US 52 over Elkhorn Creek 3119007-06\CAD_Sheets\02\44575\right-Landscape_16.mxd
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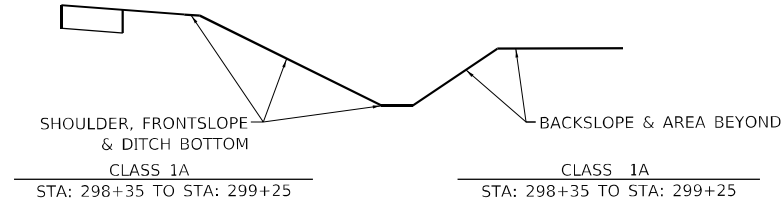
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**NORTH BROOKVILLE ROAD
 LANDSCAPE PLAN**

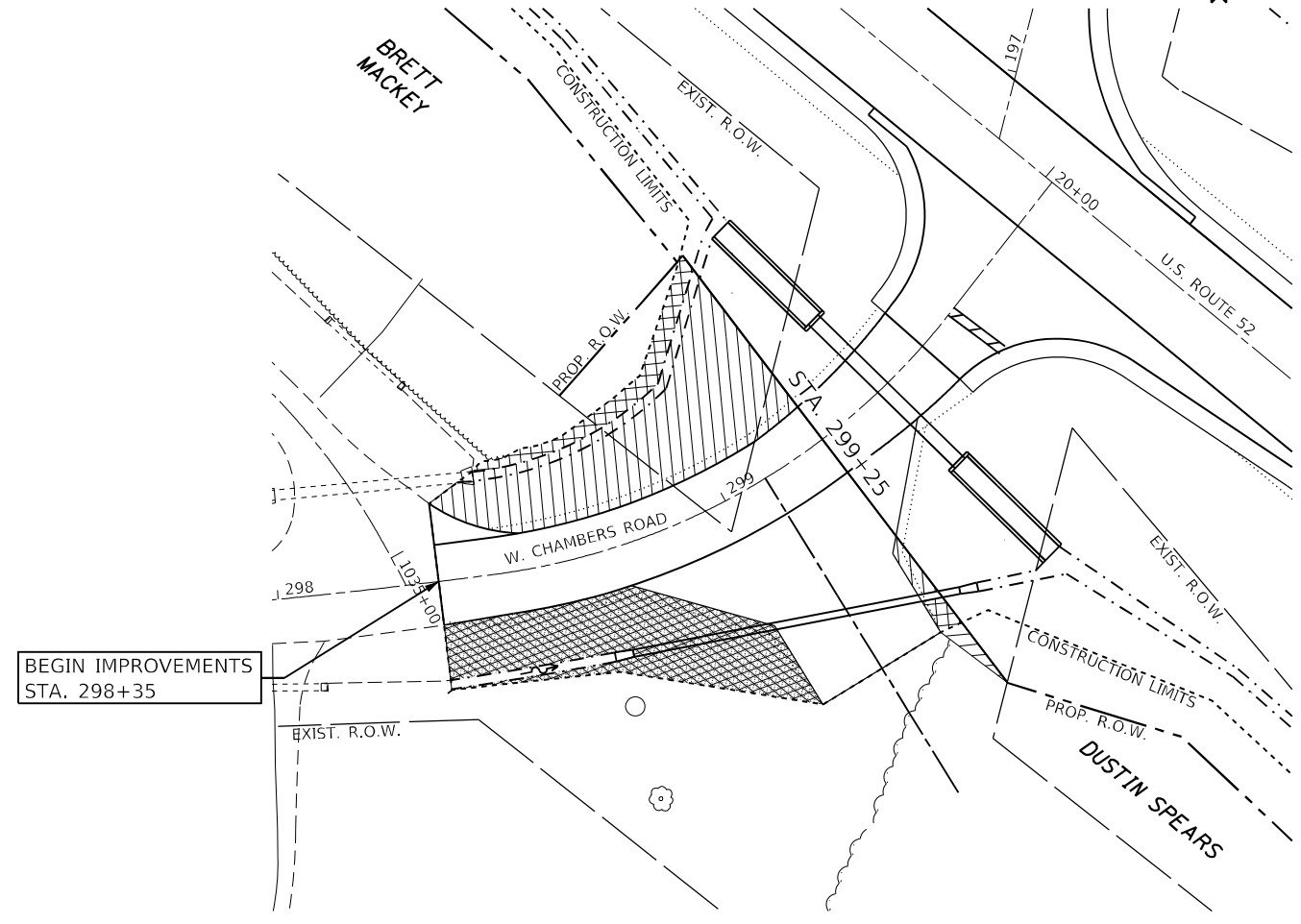
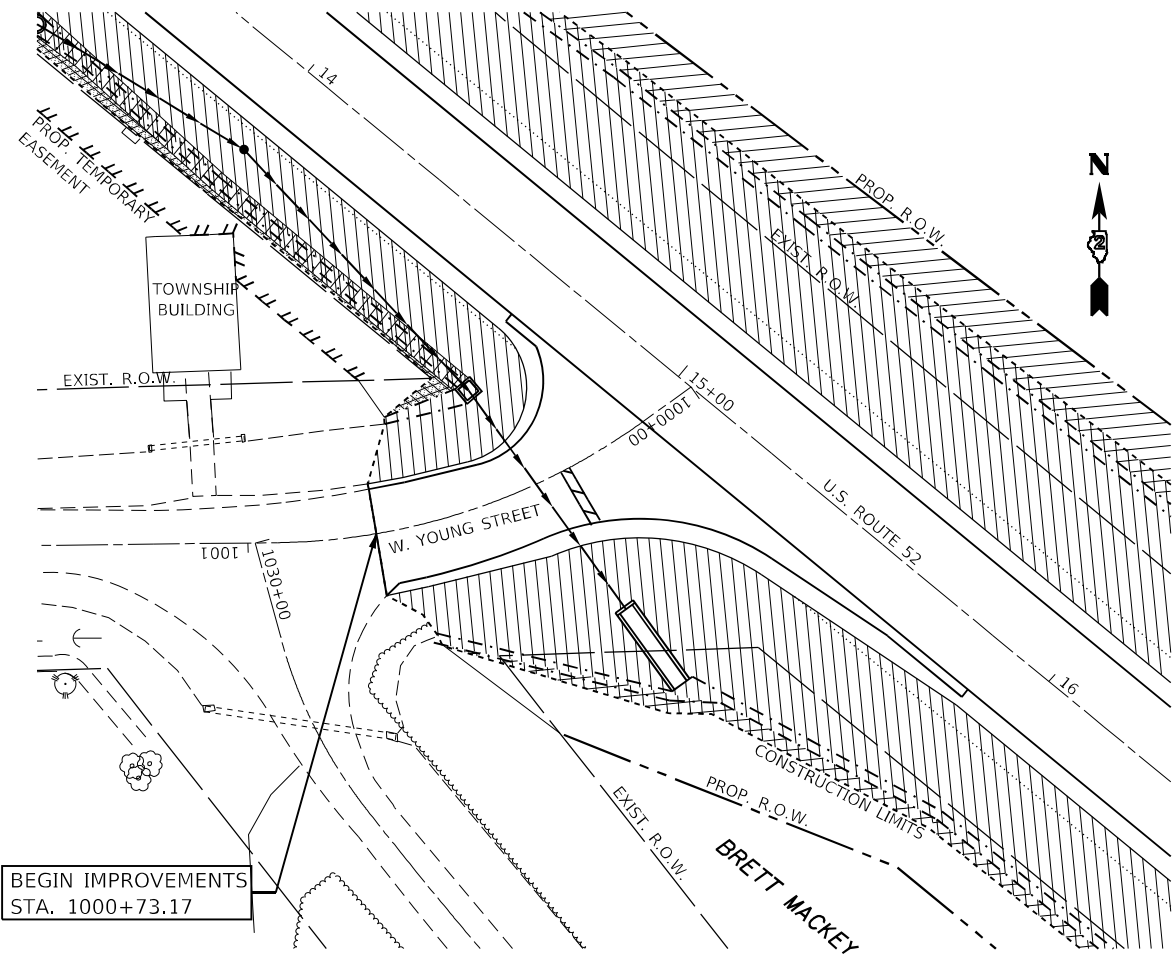
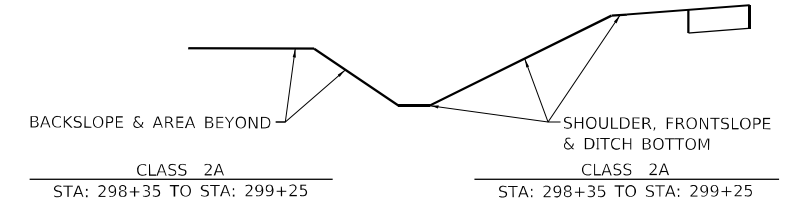
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	59
CONTRACT NO. 64H57				
ILLINOIS FED. AID PROJECT				

SEEDING DETAIL – RIGHT DITCH








SEEDING DETAIL – LEFT DITCH



BEGIN IMPROVEMENTS
STA. 298+35

BEGIN IMPROVEMENTS
STA. 1000+73.17

LANDSCAPE LEGEND

-  SEEDING, CLASS 1A
-  SEEDING, CLASS 2A
-  SEEDING, CLASS 4
-  SEEDING, CLASS 4 (SPECIAL)
-  TURF REINFORCEMENT MAT



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 Professional Design Firm Corporation
 123 North 15th Street
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 Phone: 217.253.3177
 License No. 156-003401
 e-mail: upchurchgroup@upchurchgroup.com

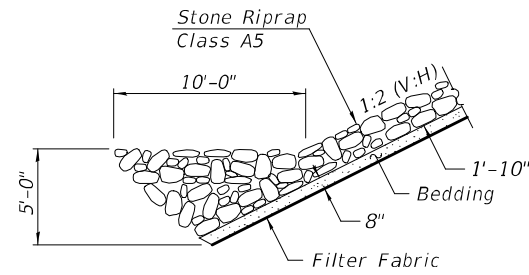
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PLOT SCALE = 40,0000' / in.	CHECKED - SJF	REVISED -
PLOT DATE = 6/22/2022	DATE - JUNE 22, 2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

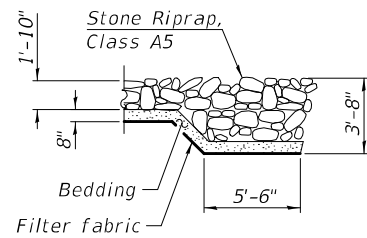
**W. YOUNG STREET AND W. CHAMBERS STREET
LANDSCAPE PLAN**

SCALE: 40,0000' / in. SHEET OF SHEETS STA. TO STA.

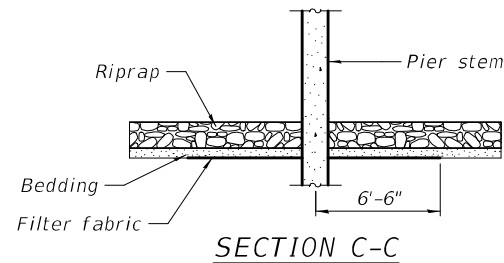
F.A.S. RTE. 2079	SECTION 16BR-1	COUNTY OGLE	TOTAL SHEETS 130	SHEET NO. 60
CONTRACT NO. 64H57			ILLINOIS FED. AID PROJECT	



SECTION A-A



SECTION B-B



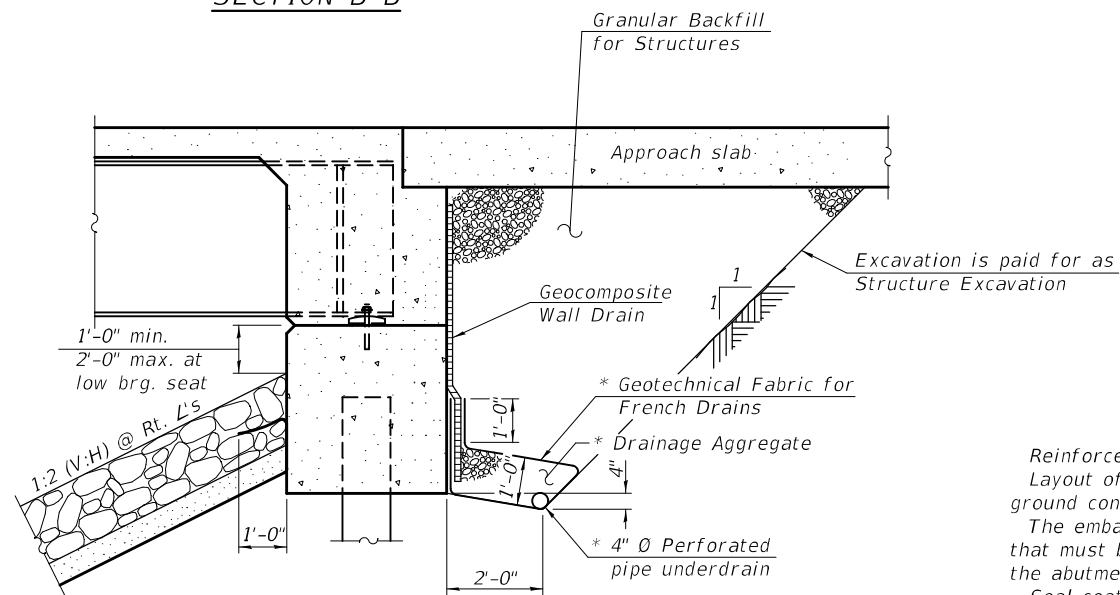
SECTION C-C

STATION 25+38.57
 BUILT 20 BY
 STATE OF ILLINOIS
 F.A.S. RTE. 2079 - SEC. 16BR-1
 LOADING HL-93
 STRUCTURE NO. 071-0098

NAME PLATE
 See Std. 515001

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A5	Sq Yd		957	957
Filter Fabric	Sq Yd		902	902
Removal Of Existing Structures	Each		1	1
Structure Excavation	Cu Yd		262	262
Cofferdam Excavation	Cu Yd		202	202
Cofferdam (Type 2) (Location - 1)	Each		1	1
Concrete Structures	Cu Yd		164.7	164.7
Concrete Superstructure	Cu Yd	304.3		304.3
Bridge Deck Grooving	Sq Yd	958		958
Seal Coat Concrete	Cu Yd		50.0	50.0
Protective Coat	Sq Yd	1256		1256
Concrete Superstructure (Approach Slab)	Cu Yd	94.8		94.8
Furnishing And Erecting Structural Steel	L Sum	1		1
Stud Shear Connectors	Each	4752		4752
Reinforcement Bars, Epoxy Coated	Pound	110940	18070	129010
Furnishing Steel Piles HP14X73	Foot		1520	1520
Driving Piles	Foot		1520	1520
Test Pile Steel HP14X73	Each		4	4
Pile Shoes	Each		32	32
Name Plates	Each	1		1
Anchor Bolts, 1"	Each		48	48
Granular Backfill For Structures	Cu Yd		118	118
Geocomposite Wall Drain	Sq Yd		74	74
Asbestos Bearing Pad Removal	Each	18		18
Pipe Underdrains For Structures 4"	Foot		136	136



SECTION THRU INTEGRAL ABUTMENT
 (Horiz. dim. @ Rt. L's)

* Included in the cost of Pipe Underdrains for Structures.

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).

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.

Seal coat thickness design is based on the Cofferdam Design Water Surface Elevation (CDWE). Cofferdam design details and proposed changes in seal coat thickness shall be submitted to the Engineer for approval with the cofferdam design.

Fasteners shall be ASTM A325 Type 3. Bolts 7/8 in. Ø, holes 1 1/16 in. Ø, unless otherwise noted.

Calculated weight of Structural Steel = 278,080 lbs. (M 270 Grade 50W). All structural steel shall be AASHTO M 270 Grade 50W.

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

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete cap plus 18 inches. Painted areas shall be primed in the shop with a Department approved zinc rich primer. Field painting will not be required.

Slipforming of the parapets is not allowed.

WATERWAY INFORMATION

Existing Overtopping Elev. = 761.1 at Sta. 17+85
 Drainage Area = 46.8 sq. mi. Proposed Overtopping Elev. = 762.0 at Sta. 17+85

Flood Event	Freq. Yr.	Discharge CFS	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	3500	685	709	758.5	1.2	0.9	759.7	759.4
Base	50	5530	756	908	759.6	1.8	1.4	761.4	761.0
Scour Design Check	100	6430	776	962	759.9	1.7	1.4	761.6	761.3
Overtop Existing	200	7375	822	1038	760.3	1.7	1.6	762.0	761.9
Overtop Proposed	40	5000	737	-	759.4	1.7	-	761.1	-
Max. Calc.	300	7750	-	1061	760.4	-	1.7	-	762.1
	500	8680	861	1117	760.7	1.7	1.5	762.4	762.2

10 Year Velocity Through Existing Bridge = 5.1 ft/s
 10 Year Velocity Through Proposed Bridge = 4.9 ft/s

DESIGN SCOUR ELEVATION TABLE

Event / Limit State	Design Scour Elevations (ft.)				Item 113
	W. Abut.	Pier 1	Pier 2	E. Abut.	
Q100	758.65	734.80	728.40	759.05	5
Q200	758.65	732.80	726.40	759.05	
Design Check	758.65	734.80	728.40	759.05	

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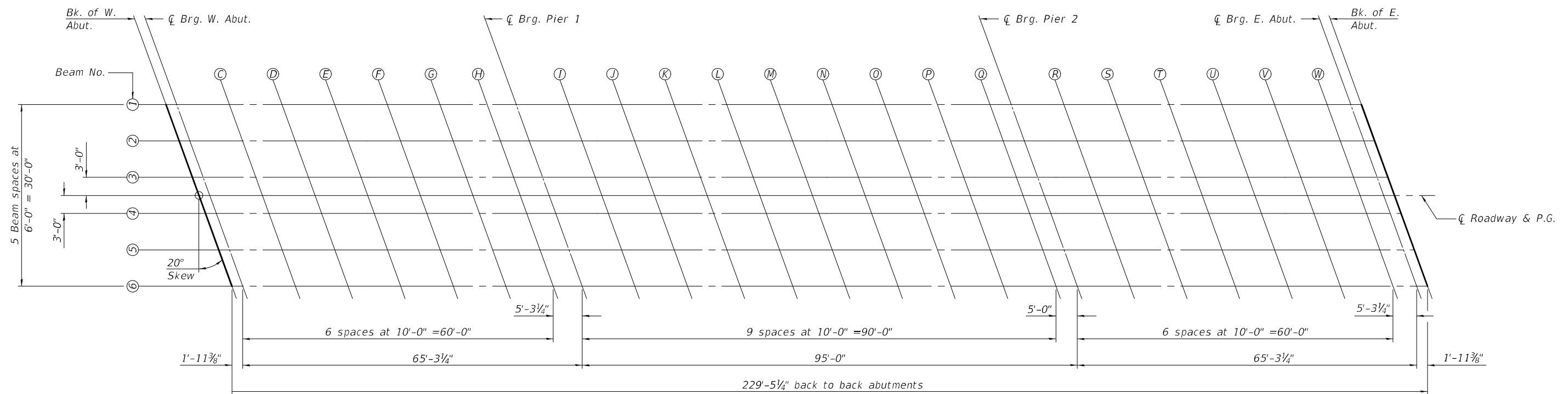
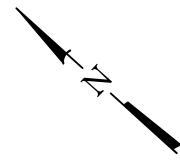
DESIGNED - NEPTALI RIVERA-MARTINEZ	EXAMINED - <i>Joanne F. [Signature]</i>	DATE - October 17, 2022
CHECKED - JOSUE ORTIZ-VARELA	PASSED - <i>Joanne F. [Signature]</i>	REVISED -
DRAWN - GLENN W. STOVER	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
CHECKED - D.H.R. / T.L.M. / G.R.A.		

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL DETAILS
 STRUCTURE NO. 071-0098

SHEET 2 OF 29 SHEETS

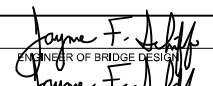

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	62
CONTRACT NO. 64H57				
ILLINOIS FED. AID PROJECT				



PLAN

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DESIGNED -	NEPTALI RIVERA-MARTINEZ
CHECKED -	JOSUE ORTIZ-VARELA
DRAWN -	GLENN W. STOVER
CHECKED -	D.H.R. / T.L.M. / G.R.A.

EXAMINED	
PASSED	

DATE -	October 17, 2022
REVISED -	
REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 071-0098

SHEET 3 OF 29 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	63
CONTRACT NO. 64H57				
ILLINOIS FED. AID PROJECT				

MODEL: 0710098-64H57-004
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BEAM 1



Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	24+18.39	-15.00	766.29	766.29
Q Brg. W. Abut.	24+20.34	-15.00	766.31	766.31
C	24+30.34	-15.00	766.40	766.41
D	24+40.34	-15.00	766.49	766.50
E	24+50.34	-15.00	766.56	766.58
F	24+60.34	-15.00	766.63	766.64
G	24+70.34	-15.00	766.70	766.70
H	24+80.34	-15.00	766.76	766.76
Q Brg. Pier 1	24+85.61	-15.00	766.78	766.78
I	24+95.61	-15.00	766.83	766.85
J	25+05.61	-15.00	766.87	766.92
K	25+15.61	-15.00	766.91	766.97
L	25+25.61	-15.00	766.94	767.01
M	25+35.61	-15.00	766.96	767.04
N	25+45.61	-15.00	766.97	767.04
O	25+55.61	-15.00	766.98	767.04
P	25+65.61	-15.00	766.98	767.02
Q	25+75.61	-15.00	766.98	766.99
Q Brg. Pier 2	25+80.61	-15.00	766.98	766.98
R	25+90.61	-15.00	766.96	766.96
S	26+00.61	-15.00	766.94	766.95
T	26+10.61	-15.00	766.92	766.93
U	26+20.61	-15.00	766.88	766.90
V	26+30.61	-15.00	766.84	766.86
W	26+40.61	-15.00	766.80	766.80
Q Brg. E. Abut.	26+45.88	-15.00	766.77	766.77
Bk. E. Abut.	26+47.83	-15.00	766.76	766.76

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	24+20.57	-9.00	766.42	766.42
Q Brg. W. Abut.	24+22.53	-9.00	766.44	766.44
C	24+32.53	-9.00	766.53	766.54
D	24+42.53	-9.00	766.61	766.62
E	24+52.53	-9.00	766.68	766.70
F	24+62.53	-9.00	766.75	766.76
G	24+72.53	-9.00	766.82	766.82
H	24+82.53	-9.00	766.87	766.87
Q Brg. Pier 1	24+87.79	-9.00	766.90	766.90
I	24+97.79	-9.00	766.95	766.97
J	25+07.79	-9.00	766.99	767.03
K	25+17.79	-9.00	767.02	767.08
L	25+27.79	-9.00	767.05	767.12
M	25+37.79	-9.00	767.07	767.15
N	25+47.79	-9.00	767.08	767.15
O	25+57.79	-9.00	767.09	767.14
P	25+67.79	-9.00	767.09	767.12
Q	25+77.79	-9.00	767.08	767.09
Q Brg. Pier 2	25+82.79	-9.00	767.08	767.08
R	25+92.79	-9.00	767.06	767.07
S	26+02.79	-9.00	767.04	767.05
T	26+12.79	-9.00	767.01	767.03
U	26+22.79	-9.00	766.98	767.00
V	26+32.79	-9.00	766.94	766.95
W	26+42.79	-9.00	766.89	766.90
Q Brg. E. Abut.	26+48.06	-9.00	766.86	766.86
Bk. E. Abut.	26+50.01	-9.00	766.85	766.85

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	24+22.76	-3.00	766.53	766.53
Q Brg. W. Abut.	24+24.71	-3.00	766.55	766.55
C	24+34.71	-3.00	766.64	766.65
D	24+44.71	-3.00	766.72	766.73
E	24+54.71	-3.00	766.79	766.81
F	24+64.71	-3.00	766.86	766.87
G	24+74.71	-3.00	766.92	766.92
H	24+84.71	-3.00	766.97	766.97
Q Brg. Pier 1	24+89.98	-3.00	767.00	767.00
I	24+99.98	-3.00	767.04	767.07
J	25+09.98	-3.00	767.08	767.13
K	25+19.98	-3.00	767.12	767.18
L	25+29.98	-3.00	767.14	767.22
M	25+39.98	-3.00	767.16	767.24
N	25+49.98	-3.00	767.17	767.24
O	25+59.98	-3.00	767.18	767.23
P	25+69.98	-3.00	767.18	767.21
Q	25+79.98	-3.00	767.17	767.18
Q Brg. Pier 2	25+84.98	-3.00	767.17	767.17
R	25+94.98	-3.00	767.15	767.15
S	26+04.98	-3.00	767.13	767.13
T	26+14.98	-3.00	767.10	767.11
U	26+24.98	-3.00	767.06	767.08
V	26+34.98	-3.00	767.02	767.03
W	26+44.98	-3.00	766.97	766.98
Q Brg. E. Abut.	26+50.25	-3.00	766.94	766.94
Bk. E. Abut.	26+52.20	-3.00	766.93	766.93

DESIGNED - NEPTALI RIVERA-MARTINEZ	EXAMINED - 	DATE - October 17, 2022
CHECKED - JOSUE ORTIZ-VARELA	PASSED - 	REVISOR -
DRAWN - GLENN W. STOVER	ENGINEER OF BRIDGES AND STRUCTURES	REVISOR -
CHECKED - D.H.R. / T.L.M. / G.R.A.		

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS
 STRUCTURE NO. 071-0098**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	64
CONTRACT NO. 64H57				
SHEET 4 OF 29 SHEETS		ILLINOIS FED. AID PROJECT		

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CL ROADWAY & P.G.



Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	24+23.85	0.00	766.59	766.59
CL Brg. W. Abut.	24+25.80	0.00	766.60	766.60
C	24+35.80	0.00	766.69	766.70
D	24+45.80	0.00	766.77	766.79
E	24+55.80	0.00	766.84	766.86
F	24+65.80	0.00	766.91	766.92
G	24+75.80	0.00	766.97	766.97
H	24+85.80	0.00	767.02	767.03
CL Brg. Pier 1	24+91.07	0.00	767.05	767.05
I	25+01.07	0.00	767.09	767.12
J	25+11.07	0.00	767.13	767.18
K	25+21.07	0.00	767.16	767.22
L	25+31.07	0.00	767.19	767.26
M	25+41.07	0.00	767.21	767.29
N	25+51.07	0.00	767.22	767.29
O	25+61.07	0.00	767.22	767.28
P	25+71.07	0.00	767.22	767.26
Q	25+81.07	0.00	767.22	767.23
CL Brg. Pier 2	25+86.07	0.00	767.21	767.21
R	25+96.07	0.00	767.19	767.19
S	26+06.07	0.00	767.17	767.17
T	26+16.07	0.00	767.14	767.15
U	26+26.07	0.00	767.10	767.12
V	26+36.07	0.00	767.06	767.07
W	26+46.07	0.00	767.01	767.01
CL Brg. E. Abut.	26+51.34	0.00	766.98	766.98
Bk. E. Abut.	26+53.29	0.00	766.97	766.97

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	24+24.94	3.00	766.55	766.55
CL Brg. W. Abut.	24+26.89	3.00	766.57	766.57
C	24+36.89	3.00	766.65	766.66
D	24+46.89	3.00	766.73	766.75
E	24+56.89	3.00	766.81	766.82
F	24+66.89	3.00	766.87	766.88
G	24+76.89	3.00	766.93	766.93
H	24+86.89	3.00	766.98	766.99
CL Brg. Pier 1	24+92.16	3.00	767.01	767.01
I	25+02.16	3.00	767.05	767.08
J	25+12.16	3.00	767.09	767.14
K	25+22.16	3.00	767.12	767.18
L	25+32.16	3.00	767.15	767.22
M	25+42.16	3.00	767.16	767.24
N	25+52.16	3.00	767.17	767.24
O	25+62.16	3.00	767.18	767.23
P	25+72.16	3.00	767.18	767.21
Q	25+82.16	3.00	767.17	767.18
CL Brg. Pier 2	25+87.16	3.00	767.16	767.16
R	25+97.16	3.00	767.14	767.15
S	26+07.16	3.00	767.12	767.13
T	26+17.16	3.00	767.09	767.10
U	26+27.16	3.00	767.05	767.07
V	26+37.16	3.00	767.01	767.02
W	26+47.16	3.00	766.96	766.96
CL Brg. E. Abut.	26+52.43	3.00	766.93	766.93
Bk. E. Abut.	26+54.38	3.00	766.92	766.92

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	24+27.13	9.00	766.48	766.48
CL Brg. W. Abut.	24+29.08	9.00	766.50	766.50
C	24+39.08	9.00	766.58	766.59
D	24+49.08	9.00	766.66	766.67
E	24+59.08	9.00	766.73	766.75
F	24+69.08	9.00	766.80	766.81
G	24+79.08	9.00	766.85	766.86
H	24+89.08	9.00	766.91	766.91
CL Brg. Pier 1	24+94.34	9.00	766.93	766.93
I	25+04.34	9.00	766.97	766.99
J	25+14.34	9.00	767.01	767.05
K	25+24.34	9.00	767.04	767.10
L	25+34.34	9.00	767.06	767.13
M	25+44.34	9.00	767.08	767.16
N	25+54.34	9.00	767.09	767.15
O	25+64.34	9.00	767.09	767.14
P	25+74.34	9.00	767.09	767.12
Q	25+84.34	9.00	767.08	767.09
CL Brg. Pier 2	25+89.34	9.00	767.07	767.07
R	25+99.34	9.00	767.05	767.05
S	26+09.34	9.00	767.02	767.03
T	26+19.34	9.00	766.99	767.01
U	26+29.34	9.00	766.95	766.97
V	26+39.34	9.00	766.91	766.92
W	26+49.34	9.00	766.86	766.86
CL Brg. E. Abut.	26+54.61	9.00	766.83	766.83
Bk. E. Abut.	26+56.56	9.00	766.82	766.82

DESIGNED -	NEPITALI RIVERA-MARTINEZ	EXAMINED		DATE -	October 17, 2022
CHECKED -	JOSUE ORTIZ-VARELA	PASSED		REVISED -	
DRAWN -	GLENN W. STOVER			REVISED -	
CHECKED -	D.H.R. / T.L.M. / G.R.A.				

MEMBER OF BRIDGE DESIGN
 ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
 STRUCTURE NO. 071-0098

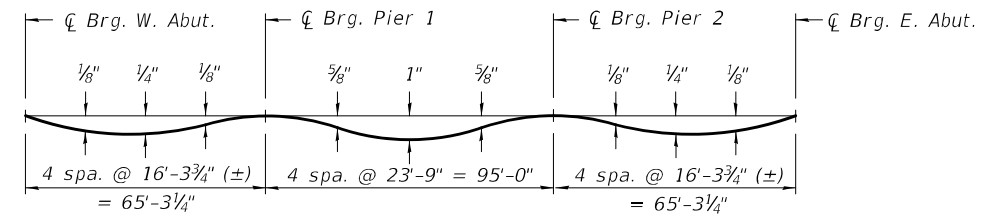
SHEET 5 OF 29 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	65
CONTRACT NO. 64H57				
ILLINOIS FED. AID PROJECT				

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BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	24+29.31	15.00	766.39	766.39
☐ Brg. W. Abut.	24+31.26	15.00	766.41	766.41
C	24+41.26	15.00	766.49	766.50
D	24+51.26	15.00	766.57	766.59
E	24+61.26	15.00	766.64	766.66
F	24+71.26	15.00	766.70	766.71
G	24+81.26	15.00	766.76	766.76
H	24+91.26	15.00	766.81	766.81
☐ Brg. Pier 1	24+96.53	15.00	766.84	766.84
I	25+06.53	15.00	766.88	766.90
J	25+16.53	15.00	766.91	766.95
K	25+26.53	15.00	766.94	767.00
L	25+36.53	15.00	766.96	767.03
M	25+46.53	15.00	766.97	767.06
N	25+56.53	15.00	766.98	767.05
O	25+66.53	15.00	766.98	767.04
P	25+76.53	15.00	766.98	767.01
Q	25+86.53	15.00	766.97	766.98
☐ Brg. Pier 2	25+91.53	15.00	766.96	766.96
R	26+01.53	15.00	766.94	766.94
S	26+11.53	15.00	766.91	766.92
T	26+21.53	15.00	766.88	766.89
U	26+31.53	15.00	766.84	766.86
V	26+41.53	15.00	766.79	766.81
W	26+51.53	15.00	766.74	766.75
☐ Brg. E. Abut.	26+56.80	15.00	766.71	766.71
Bk. E. Abut.	26+58.75	15.00	766.70	766.70

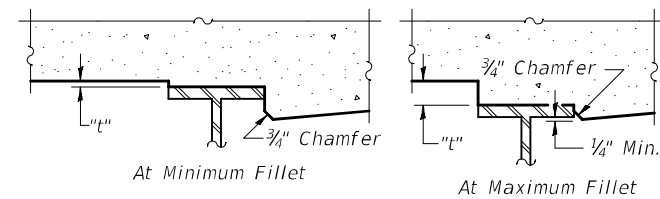


DEAD LOAD DEFLECTION DIAGRAM

(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 4 to 6 of 29.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown on sheets 4 to 6 of 29. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on sheets 4 to 6 of 29, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS

DESIGNED -	NEPTALI RIVERA-MARTINEZ
CHECKED -	JOSUE ORTIZ-VARELA
DRAWN -	GLENN W. STOVER
CHECKED -	D.H.R. / T.L.M. / G.R.A.

EXAMINED	<i>Jaime F. Joffe</i>	DATE -	October 17, 2022
PASSED	<i>Jaime F. Joffe</i>	REVISED -	
	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS
STRUCTURE NO. 071-0098**

SHEET 6 OF 29 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	66
CONTRACT NO. 64H57				
		ILLINOIS	FED. AID PROJECT	

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Aprpr.	23+89.09	-16.00	766.00
A	23+99.09	-16.00	766.09
B	24+09.09	-16.00	766.19
E. End of W. Aprpr.	24+19.09	-16.00	766.28

NORTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Aprpr.	23+90.54	-12.00	766.10
A	24+00.54	-12.00	766.19
B	24+10.54	-12.00	766.28
E. End of W. Aprpr.	24+20.54	-12.00	766.38

☉ ROADWAY & P.G.

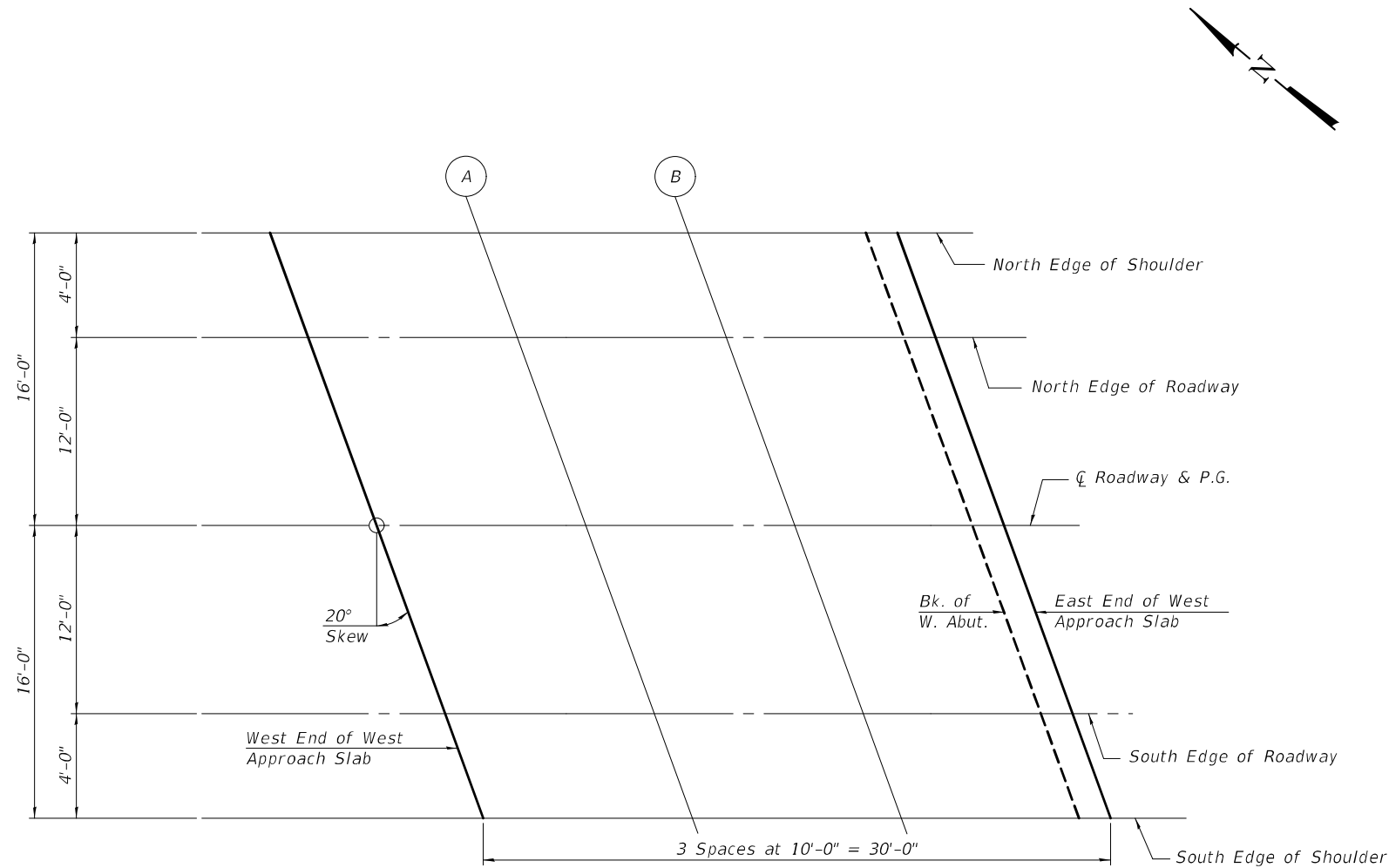
Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Aprpr.	23+94.91	0.00	766.32
A	24+04.91	0.00	766.41
B	24+14.91	0.00	766.50
E. End of W. Aprpr.	24+24.91	0.00	766.60

SOUTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Aprpr.	23+99.28	12.00	766.18
A	24+09.28	12.00	766.27
B	24+19.28	12.00	766.36
E. End of W. Aprpr.	24+29.28	12.00	766.45

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Aprpr.	24+00.73	16.00	766.11
A	24+10.73	16.00	766.20
B	24+20.73	16.00	766.30
E. End of W. Aprpr.	24+30.73	16.00	766.39



PLAN

E-AS 2-17-2017

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DESIGNED -	NEPHTALI RIVERA-MARTINEZ
CHECKED -	JOSUE ORTIZ-VARELA
DRAWN -	GLENN W. STOVER
CHECKED -	D.H.R. / T.L.M. / G.R.A.

EXAMINED	<i>Jaime F. Joffe</i>	DATE -	October 17, 2022
PASSED	<i>Jaime F. Joffe</i>	REVISED -	
	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF WEST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 071-0098**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	67
CONTRACT NO. 64H57				
ILLINOIS FED. AID PROJECT				

SHEET 7 OF 29 SHEETS

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Aprpr.	26+46.41	-16.00	766.75
X	26+56.41	-16.00	766.69
Y	26+66.41	-16.00	766.63
E. End of E. Aprpr.	26+76.41	-16.00	766.57

NORTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Aprpr.	26+47.86	-12.00	766.82
X	26+57.86	-12.00	766.76
Y	26+67.86	-12.00	766.70
E. End of E. Aprpr.	26+77.86	-12.00	766.64

☉ ROADWAY & P.G.

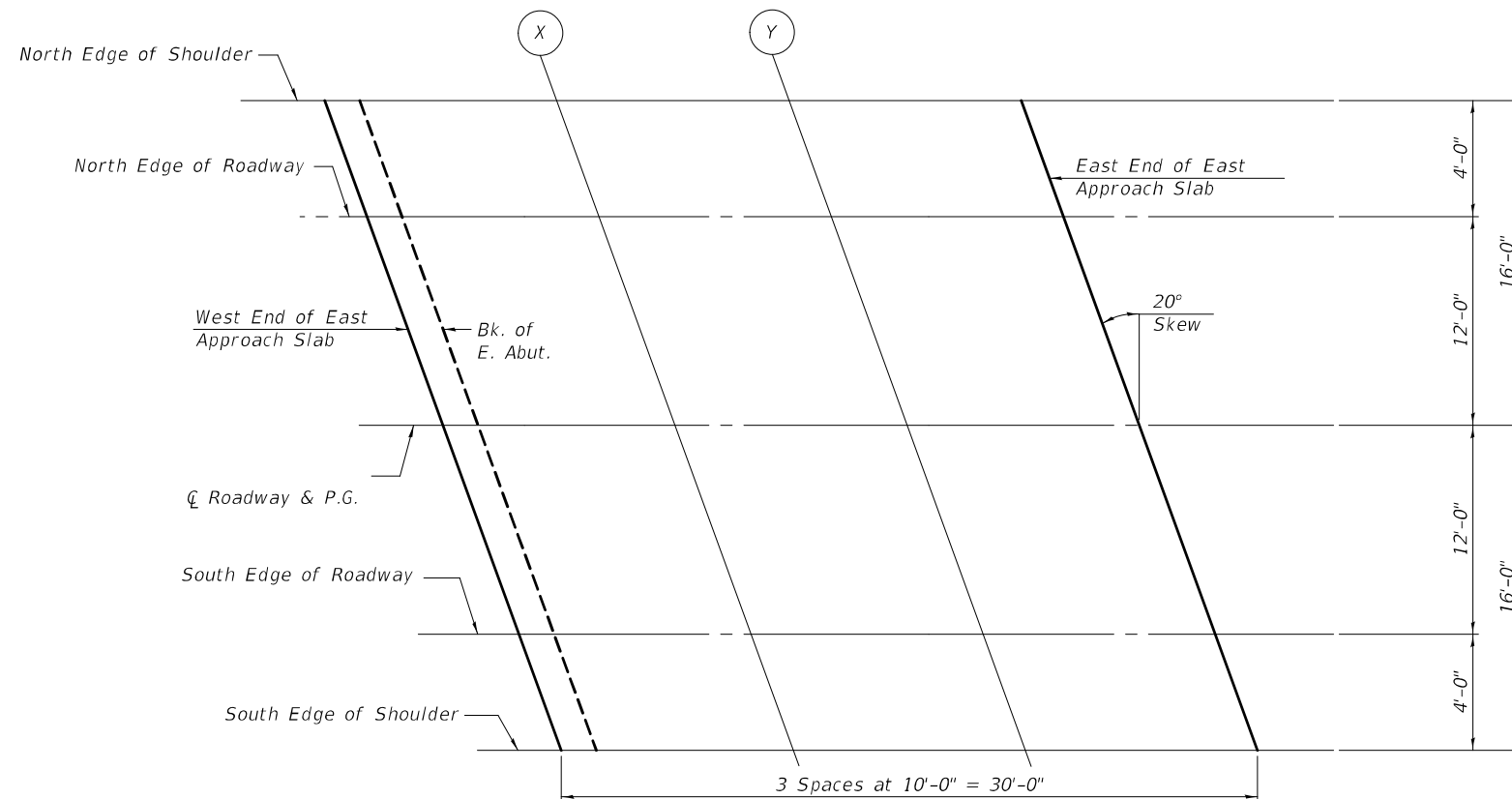
Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Aprpr.	26+52.23	0.00	766.98
X	26+62.23	0.00	766.92
Y	26+72.23	0.00	766.85
E. End of E. Aprpr.	26+82.23	0.00	766.79

SOUTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Aprpr.	26+56.60	12.00	766.77
X	26+66.60	12.00	766.71
Y	26+76.60	12.00	766.65
E. End of E. Aprpr.	26+86.60	12.00	766.59

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Aprpr.	26+58.05	16.00	766.68
X	26+68.05	16.00	766.62
Y	26+78.05	16.00	766.56
E. End of E. Aprpr.	26+88.05	16.00	766.50



PLAN

MODEL: 0710098-64H57-008
FILE NAME: p:\w\idol-pw\benley.com\FWIDOT\Documents\Bureau of Bridges and Structures\Projects\0710098\CADD Plans\0710098-64H57.dgn

E-AS 2-17-2017

DESIGNED - NEPTALI RIVERA-MARTINEZ	EXAMINED - <i>Jaime F. Joffe</i>	DATE - October 17, 2022
CHECKED - JOSUE ORTIZ-VARELA	PASSED - <i>Jaime F. Joffe</i>	REVISOR -
DRAWN - GLENN W. STOVER	ENGINEER OF BRIDGES AND STRUCTURES	REVISOR -
CHECKED - D.H.R. / T.L.M. / G.R.A.		

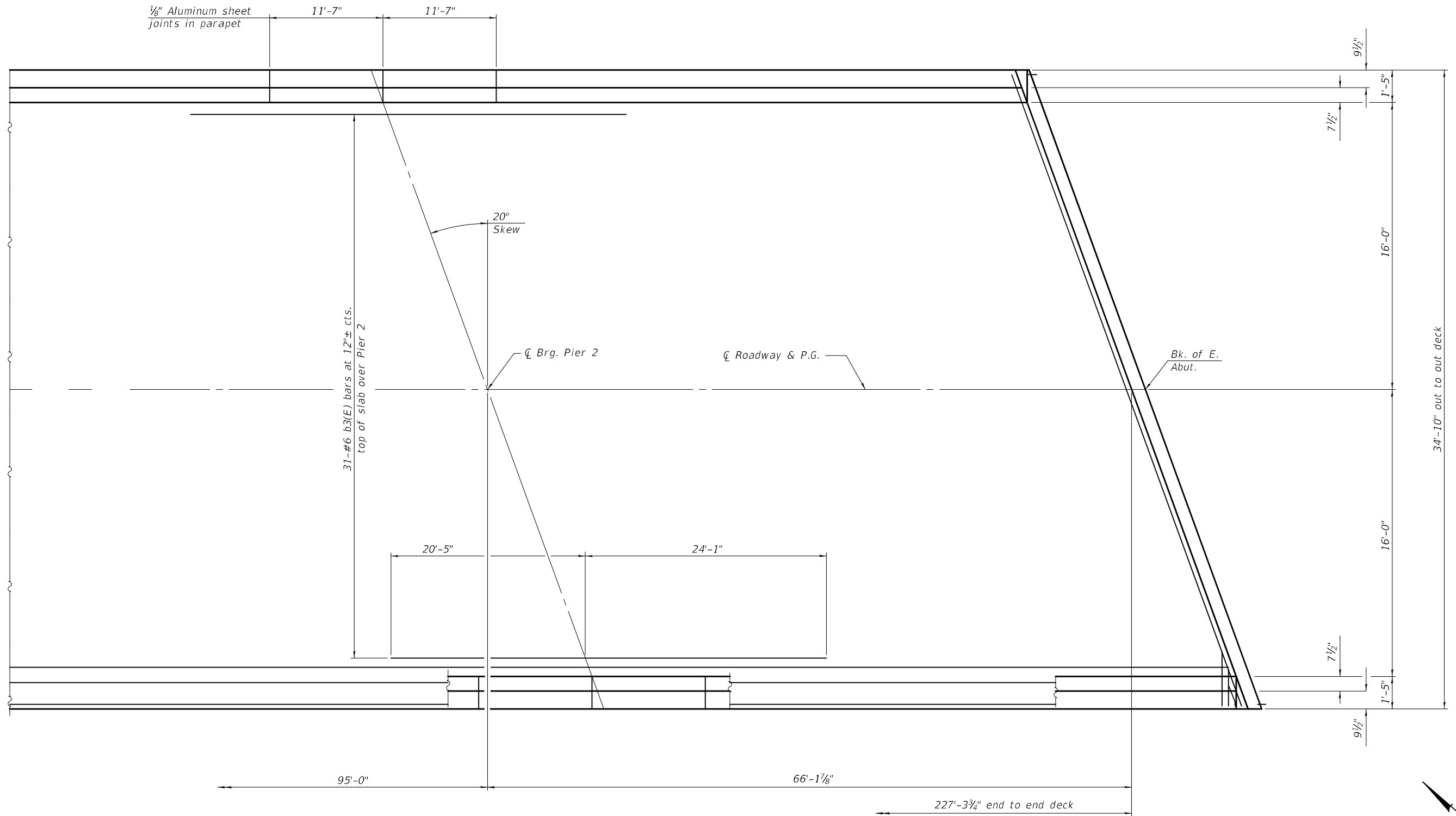
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF EAST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 071-0098**

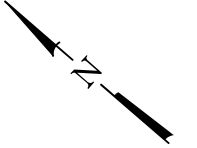
SHEET 8 OF 29 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	68
CONTRACT NO. 64H57				
ILLINOIS FED. AID PROJECT				

MODEL: 0710098-64H57-010
 FILE NAME: p:\w\10098-64H57-010\DOT Documents\Bureau of Bridges and Structures\Projects\0710098\0710098-64H57.dgn



PARTIAL PLAN



DESIGNED -	NEPTALI RIVERA-MARTINEZ
CHECKED -	JOSUE ORTIZ-VARELA
DRAWN -	GLENN W. STOVER
CHECKED -	D.H.R. / T.L.M. / G.R.A.

EXAMINED	<i>Jaime F. [Signature]</i>
PASSED	<i>Jaime F. [Signature]</i>

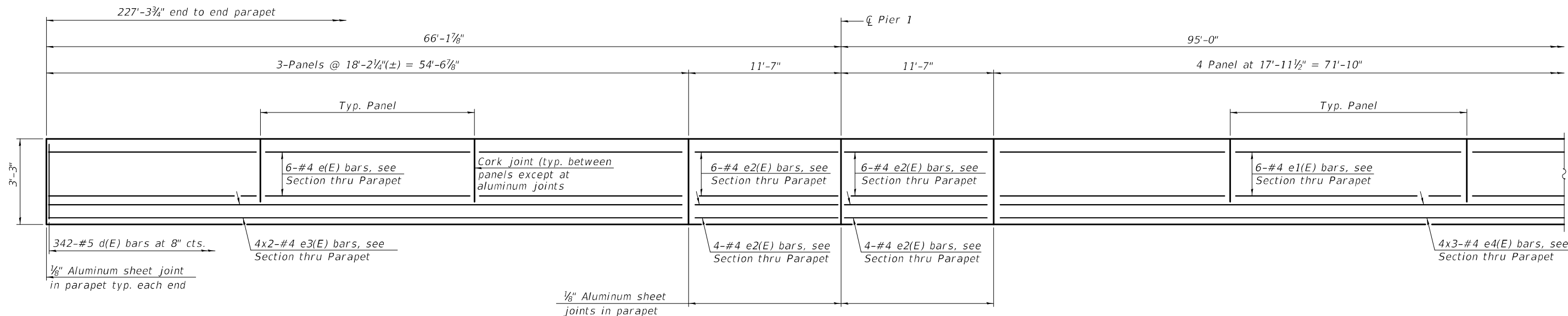
DATE -	October 17, 2022
REVISED -	
REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE
 STRUCTURE NO. 071-0098**

SHEET 10 OF 29 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	70
CONTRACT NO. 64H57				
ILLINOIS FED. AID PROJECT				



342-#5 d(E) bars at 8" cts.
 1/8" Aluminum sheet joint
 in parapet typ. each end

4x2-#4 e3(E) bars, see
 Section thru Parapet

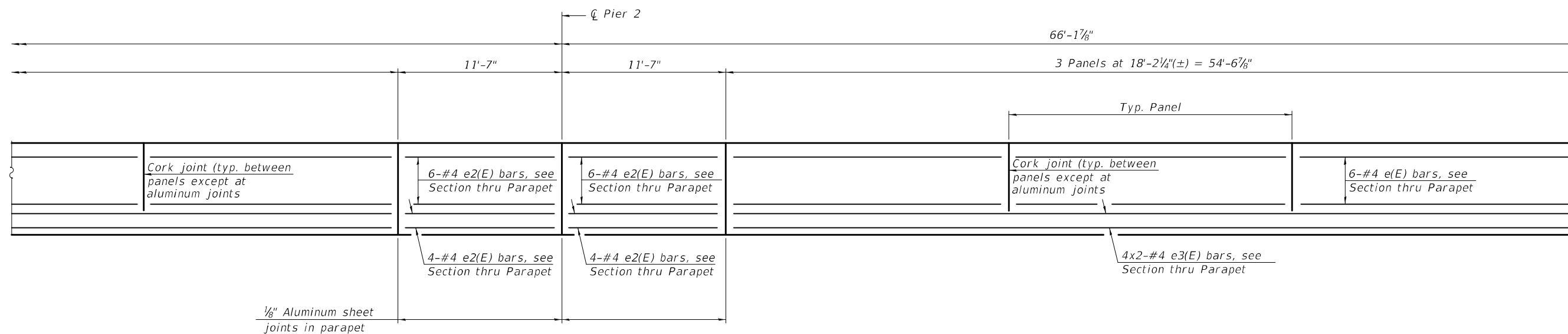
Cork joint (typ. between
 panels except at
 aluminum joints)

4-#4 e2(E) bars, see
 Section thru Parapet

4-#4 e2(E) bars, see
 Section thru Parapet

6-#4 e1(E) bars, see
 Section thru Parapet

4x3-#4 e4(E) bars, see
 Section thru Parapet



Cork joint (typ. between
 panels except at
 aluminum joints)

6-#4 e2(E) bars, see
 Section thru Parapet

6-#4 e2(E) bars, see
 Section thru Parapet

Cork joint (typ. between
 panels except at
 aluminum joints)

6-#4 e(E) bars, see
 Section thru Parapet

4-#4 e2(E) bars, see
 Section thru Parapet

4-#4 e2(E) bars, see
 Section thru Parapet

4x2-#4 e3(E) bars, see
 Section thru Parapet

1/8" Aluminum sheet
 joints in parapet

INSIDE ELEVATION OF PARAPET

MINIMUM BAR LAP

#4 bar = 2'-5"

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DESIGNED -	NEPTALI RIVERA-MARTINEZ
CHECKED -	JOSUE ORTIZ-VARELA
DRAWN -	GLENN W. STOVER
CHECKED -	D.H.R. / T.L.M. / G.R.A.

EXAMINED	<i>Jaime F. Joffe</i>
PASSED	<i>Jaime F. Joffe</i>

DATE -	October 17, 2022
REVISED -	
REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

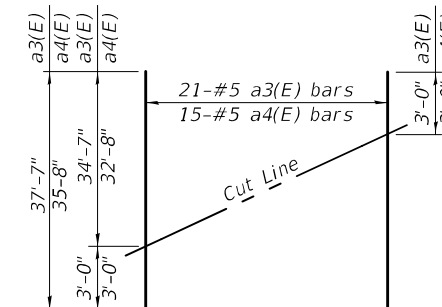
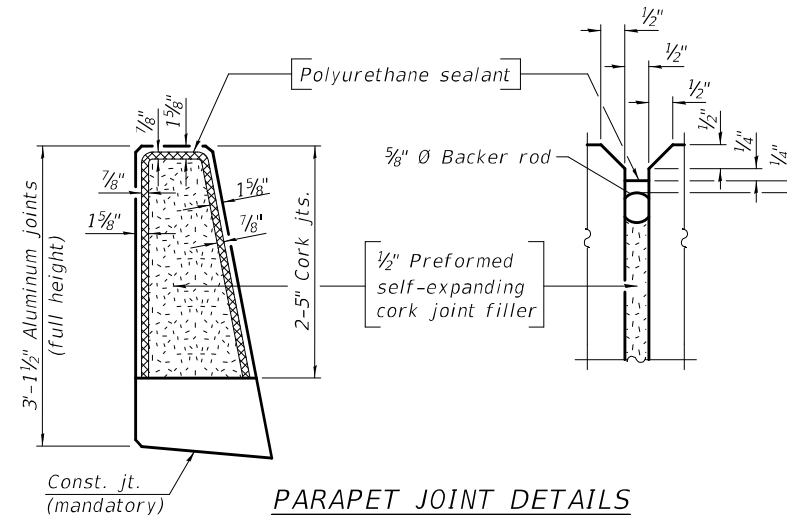
**SUPERSTRUCTURE DETAILS
 STRUCTURE NO. 071-0098**

SHEET 11 OF 29 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	71
CONTRACT NO. 64H57				
ILLINOIS FED. AID PROJECT				

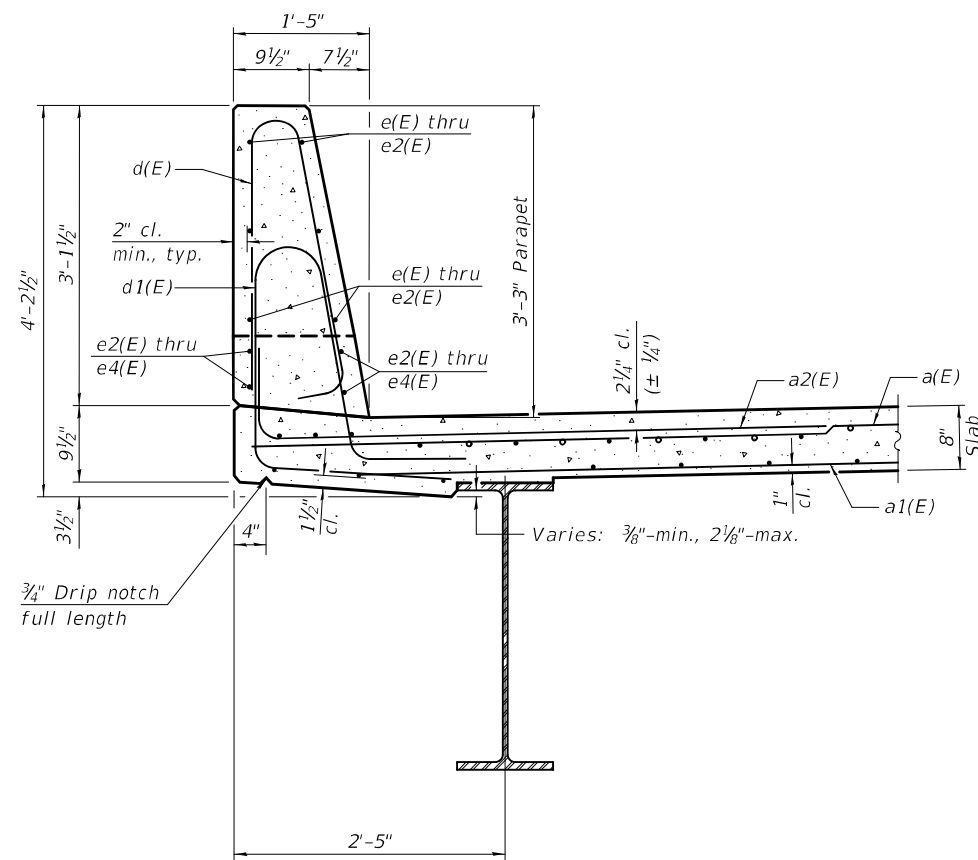
Notes:

The 1/8" 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.
 Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.

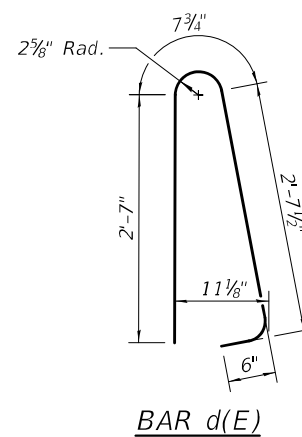


FIELD CUTTING DIAGRAM

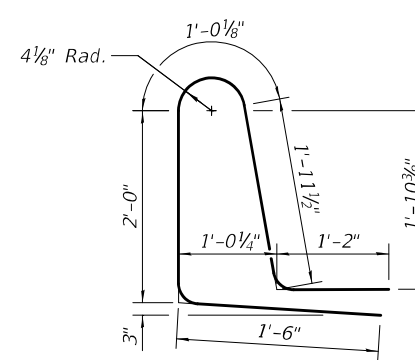
Order a3(E) and a4(E) bars full length.
 Cut as shown and use remainder of bars in opposite end of deck.



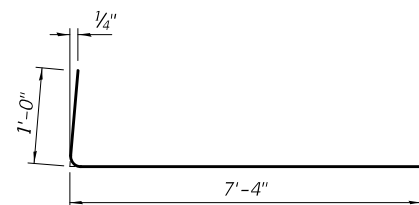
SECTION THRU PARAPET



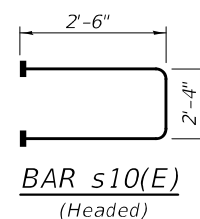
BAR d(E)



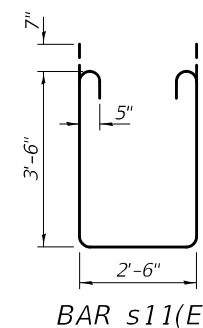
BAR d1(E)



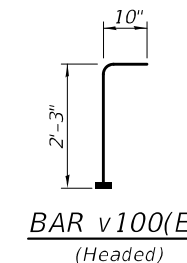
BAR a2(E)



**BAR s10(E)
(Headed)**



BAR s11(E)



**BAR v100(E)
(Headed)**

**SUPERSTRUCTURE
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	367	#5	34'-7"	—
a1(E)	257	#5	32'-8"	—
a2(E)	776	#6	8'-4"	—
a3(E)	21	#5	37'-7"	—
a4(E)	15	#5	35'-8"	—
a5(E)	4	#5	36'-9"	—
b(E)	342	#5	28'-4"	—
b1(E)	31	#6	50'-10"	—
b2(E)	310	#5	25'-11"	—
b3(E)	31	#6	44'-6"	—
d(E)	684	#5	6'-5"	—
d1(E)	684	#5	7'-8"	—
e(E)	72	#4	17'-10"	—
e1(E)	48	#4	17'-8"	—
e2(E)	80	#4	11'-4"	—
e3(E)	32	#4	28'-5"	—
e4(E)	24	#4	25'-6"	—
m10(E)	10	#6	36'-9"	—
m11(E)	40	#6	6'-0"	—
m12(E)	16	#6	2'-2"	—
s10(E)	58	#5	7'-4"	—
s11(E)	58	#5	10'-8"	—
v100(E)	70	#5	3'-1"	—
Reinforcement Bars, Epoxy Coated		Lbs.		71540
Concrete Superstructure		Cu. Yds.		296.5

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

MODEL: 0710098-64H57-012
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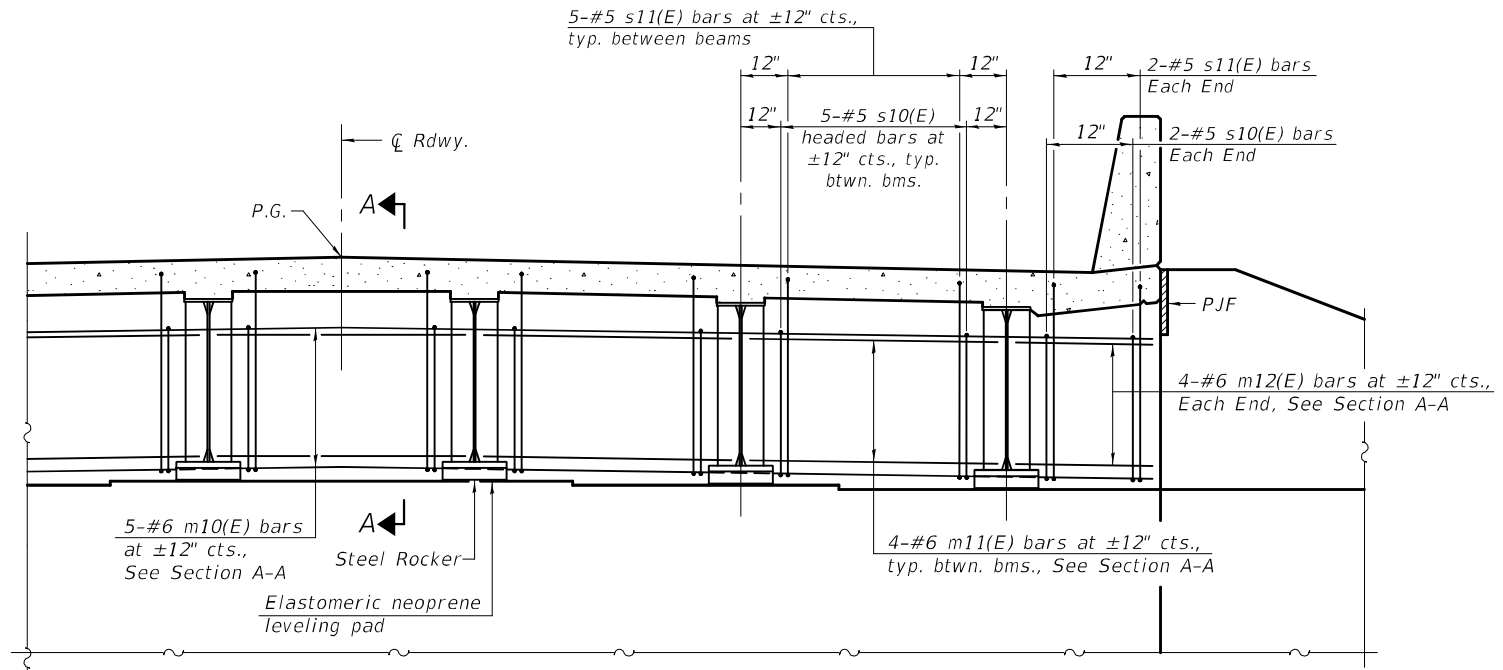
DESIGNED - NEPTALI RIVERA-MARTINEZ	EXAMINED - <i>Jaime F. Joffe</i>	DATE - October 17, 2022
CHECKED - JOSUE ORTIZ-VARELA	PASSED - <i>Jaime F. Joffe</i>	REVISIONS
DRAWN - GLENN W. STOVER	ENGINEER OF BRIDGES AND STRUCTURES	REVISIONS
CHECKED - D.H.R. / T.L.M. / G.R.A.		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

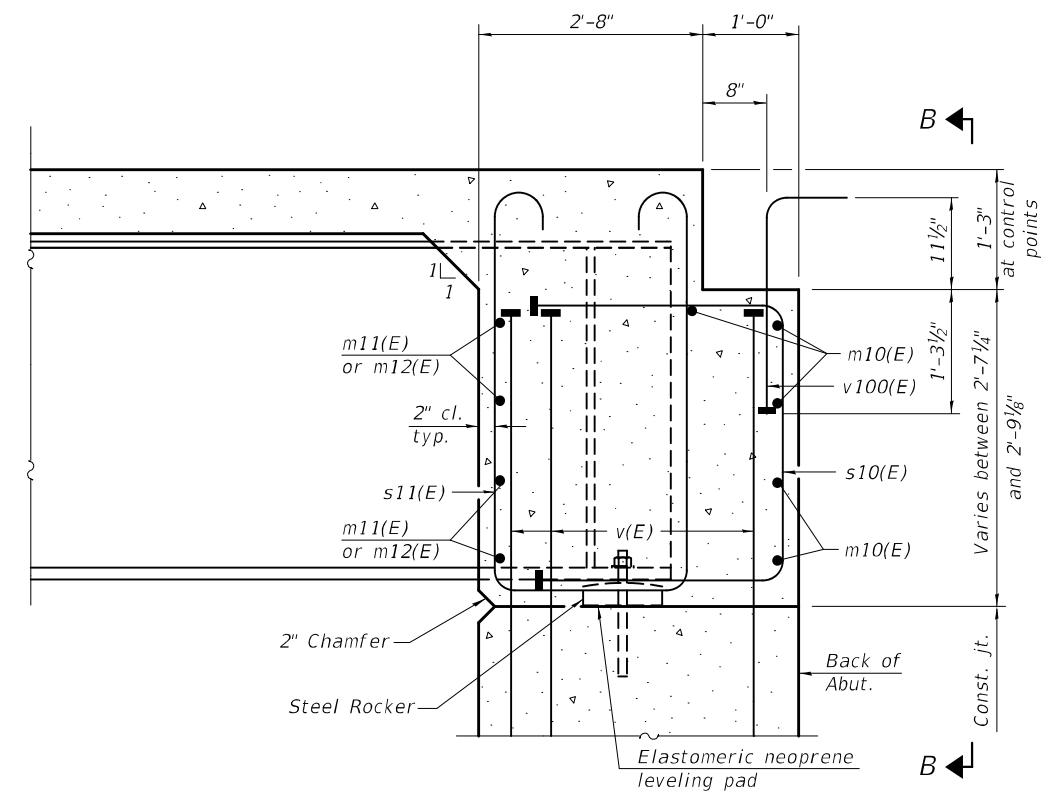
**SUPERSTRUCTURE DETAILS
STRUCTURE NO. 071-0098**

SHEET 12 OF 29 SHEETS

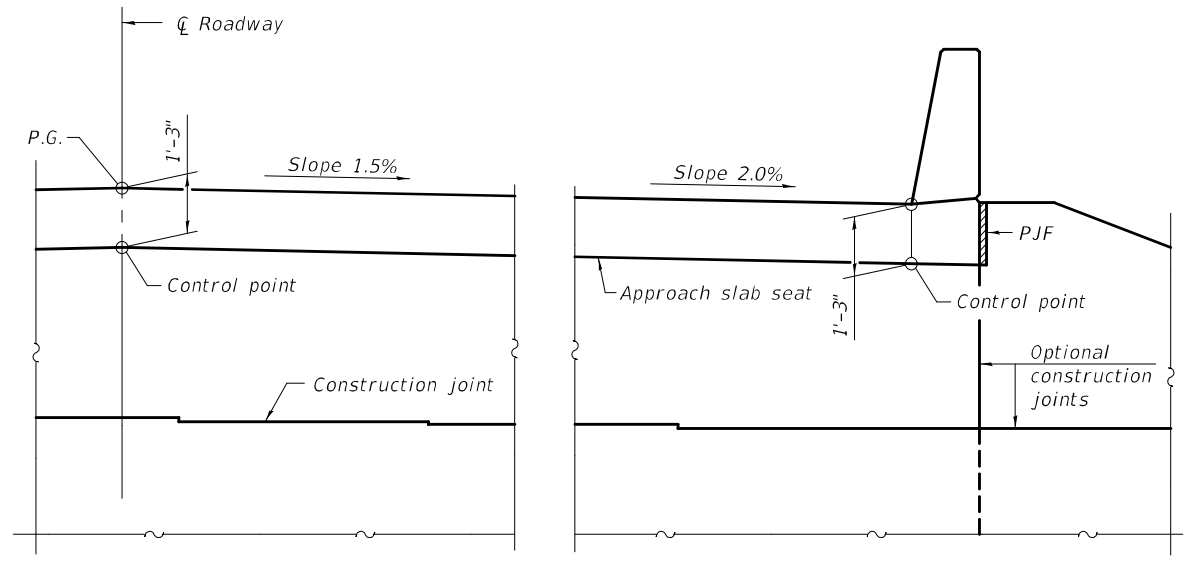
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	72
CONTRACT NO. 64H57				
ILLINOIS FED. AID PROJECT				



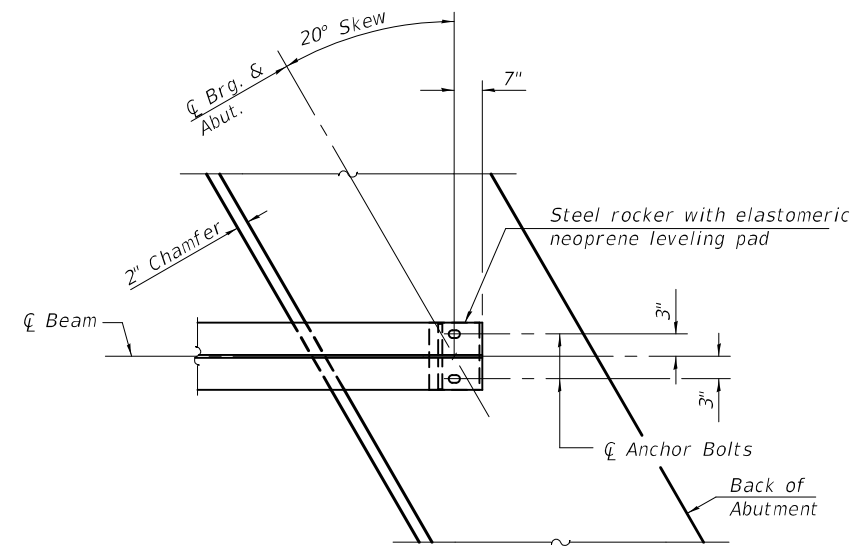
DIAPHRAGM AT ABUTMENT



SECTION A-A
(at Rt. L's)



VIEW B-B



PLAN AT ABUTMENT
(Showing bottom flange of beam)

Notes:
 See sheet 12 of 29 for superstructure details and Bill of Material.
 See sheet 15 of 29 for P.J.F. details.
 The s10(E) and s11(E) bars shall be placed parallel to the beams.
 Spacing for these bars shall be at right angles to the beams.
 The approach slab seat shall have a constant slope determined from the control points shown.

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DIA-SB-R

06-15-2019

DESIGNED - NEPTALI RIVERA-MARTINEZ	EXAMINED - <i>Joanne F. DeLuca</i>	DATE - October 17, 2022
CHECKED - JOSUE ORTIZ-VARELA	PASSED - <i>Joanne F. DeLuca</i>	
DRAWN - GLENN W. STOVER		
CHECKED - D.H.R. / T.L.M. / G.R.A.		

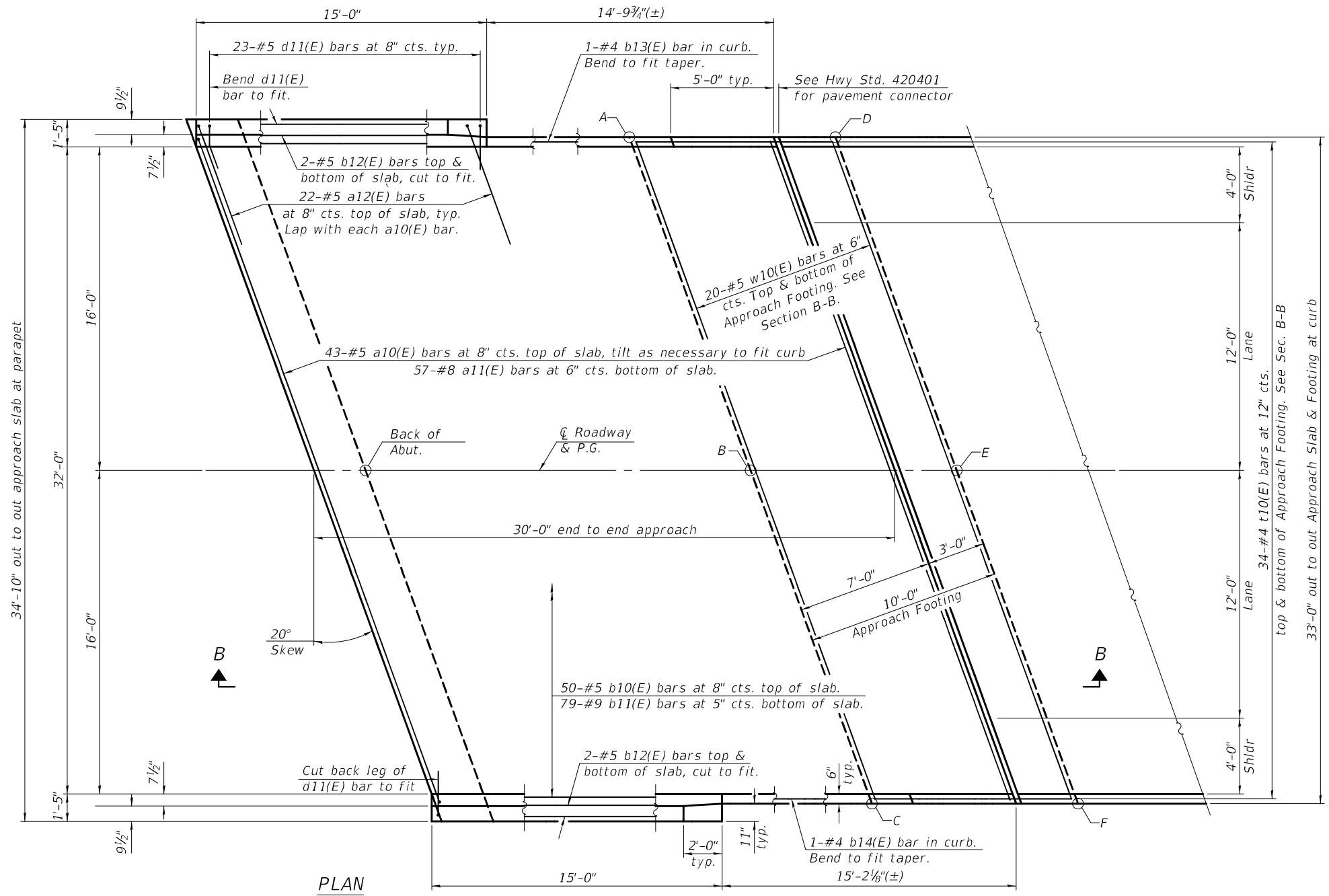
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DIAPHRAGM DETAILS
STRUCTURE NO. 071-0098

SHEET 13 OF 29 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	73
CONTRACT NO. 64H57				
ILLINOIS FED. AID PROJECT				

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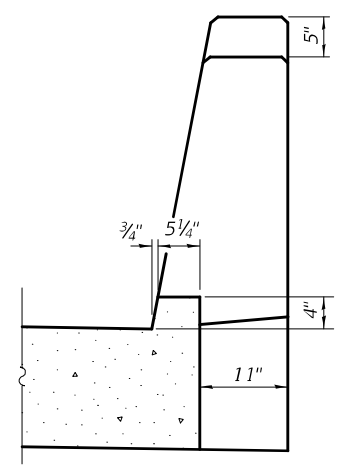
PLAN

PLAN

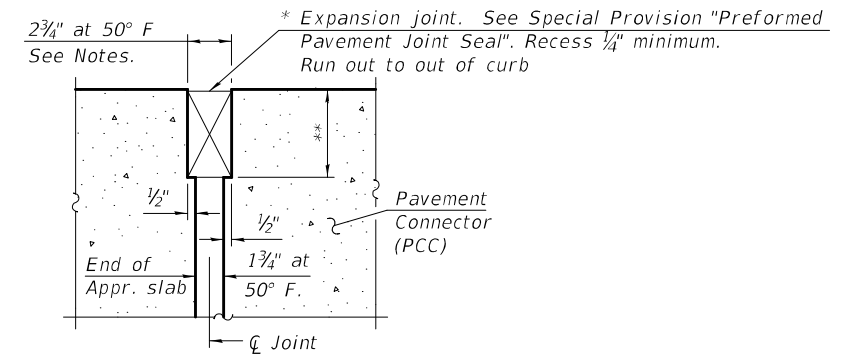
(East approach shown; west approach similar by 180° rotation)

**TOP AND BOTTOM ELEVATIONS
FOR APPROACH FOOTING**

West Approach			East Approach		
Point/Location	Top	Bottom	Point/Location	Top	Bottom
A-SE	764.92	764.09	A-NW	765.36	764.52
B-E \checkmark	765.14	764.30	B-W \checkmark	765.59	764.76
C-NE	764.81	763.98	C-SW	765.28	764.45
D-SW	764.82	763.99	D-NE	765.29	764.46
E-W \checkmark	765.04	764.20	E-E \checkmark	765.52	764.69
F-NW	764.71	763.88	F-SE	765.22	764.38



VIEW A-A



DETAIL A
(@ Rt. L's)

* Cost included with Concrete Superstructure (Approach Slab).
 ** Per manufacturer recommendations

(Sheet 1 of 2)

DESIGNED - NEPTALI RIVERA-MARTINEZ
 CHECKED - JOSUE ORTIZ-VARELA
 DRAWN - GLENN W. STOVER
 CHECKED - D.H.R. / T.L.M. / G.R.A.

EXAMINED - *Jaime F. Joffe*
 PASSED - *Jaime F. Joffe*
 ENGINEER OF BRIDGES AND STRUCTURES

DATE - October 17, 2022
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS
 STRUCTURE NO. 071-0098

SHEET 14 OF 29 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	74
CONTRACT NO. 64H57				
ILLINOIS FED. AID PROJECT				

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.

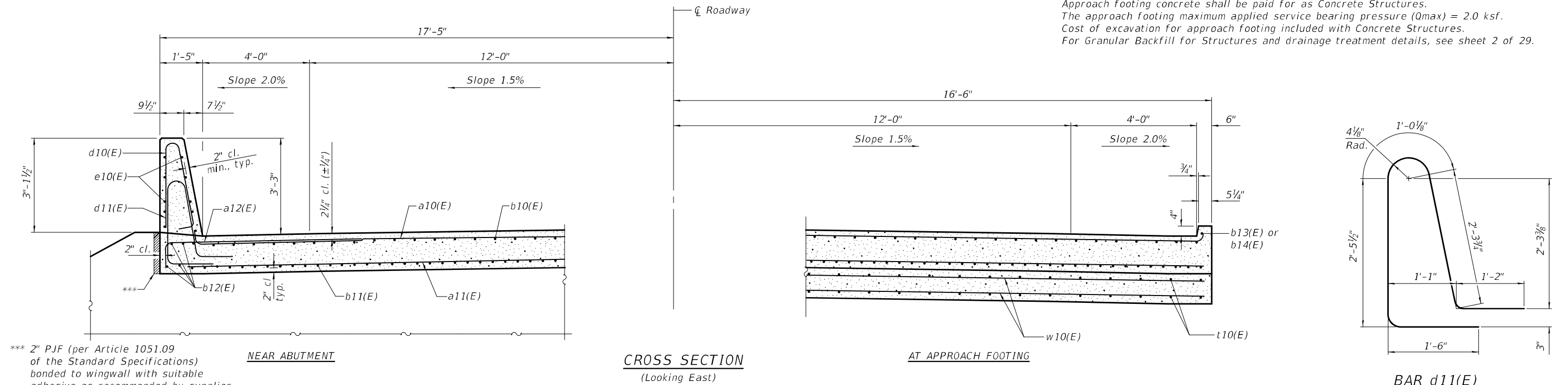
Parapet concrete shall be paid for as Concrete Superstructure.

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

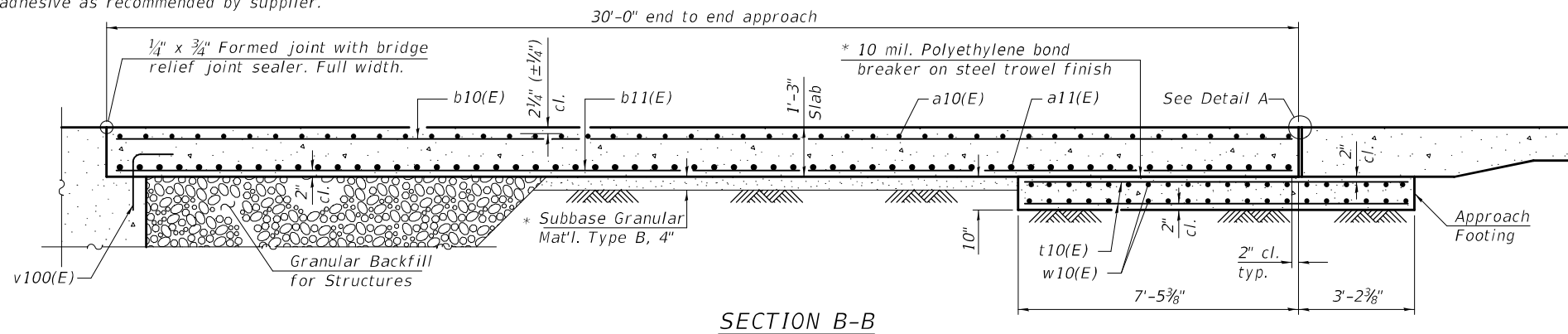
Approach footing concrete shall be paid for as Concrete Structures.

The approach footing maximum applied service bearing pressure (Q_{max}) = 2.0 ksf. Cost of excavation for approach footing included with Concrete Structures.

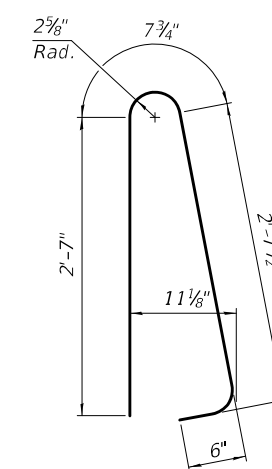
For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 29.



*** 2" P.J.F. (per Article 1051.09 of the Standard Specifications) bonded to wingwall with suitable adhesive as recommended by supplier.



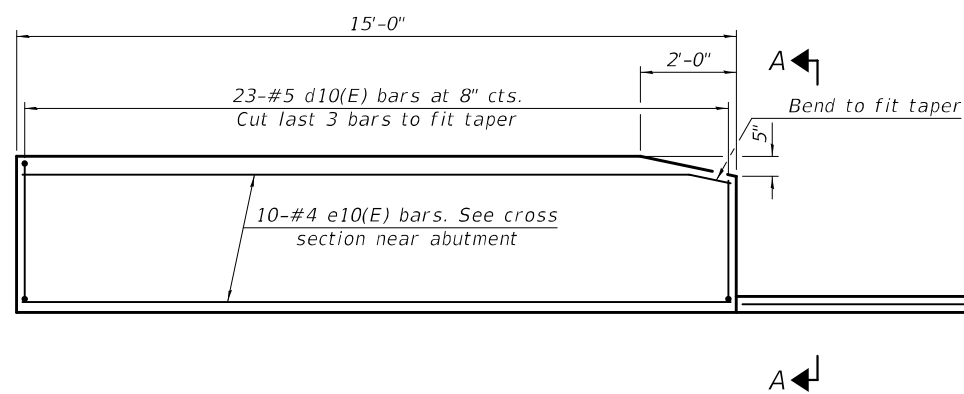
SECTION B-B



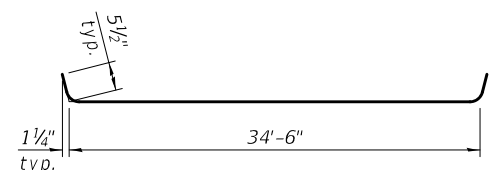
BAR d10(E)

TWO APPROACHES
BILL OF MATERIAL

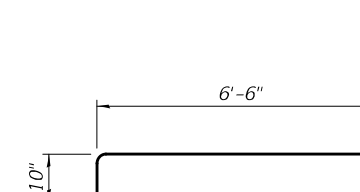
Bar	No.	Size	Length	Shape
a10(E)	86	#5	35'-5"	┌───┐
a11(E)	114	#8	34'-9"	┌───┐
a12(E)	88	#5	7'-4"	┌───┐
b10(E)	100	#5	29'-8"	┌───┐
b11(E)	158	#9	29'-8"	┌───┐
b12(E)	16	#5	14'-8"	┌───┐
b13(E)	2	#4	14'-6"	┌───┐
b14(E)	2	#4	14'-10"	┌───┐
d10(E)	92	#5	6'-5"	┌───┐
d11(E)	92	#5	8'-6"	┌───┐
e10(E)	40	#4	14'-8"	┌───┐
t10(E)	136	#4	10'-3"	┌───┐
w10(E)	80	#5	34'-9"	┌───┐
Concrete Superstructure		Cu. Yd.	7.8	
Concrete Superstructure (Approach Slab)		Cu. Yd.	94.8	
Concrete Structures		Cu. Yd.	20.4	
Reinforcement Bars, Epoxy Coated		Pound	39400	



INSIDE ELEVATION OF PARAPET AND CURB



BAR a10(E)



BAR a12(E)

(Sheet 2 of 2)

MODEL: 0710098-64H57-015
FILE NAME: p:\w\pwbentley.com\FWIDOT\Documents\DOT Offices\Bureau of Bridges and Structures\Projects\0710098\CADD Plans\0710098-64H57.dgn

DESIGNED - NEPHTALI RIVERA-MARTINEZ
CHECKED - JOSUE ORTIZ-VARELA
DRAWN - GLENN W. STOVER
CHECKED - D.H.R. / T.L.M. / G.R.A.

EXAMINED
PASSED
DATE - October 17, 2022
REVISOR -
REVISION -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

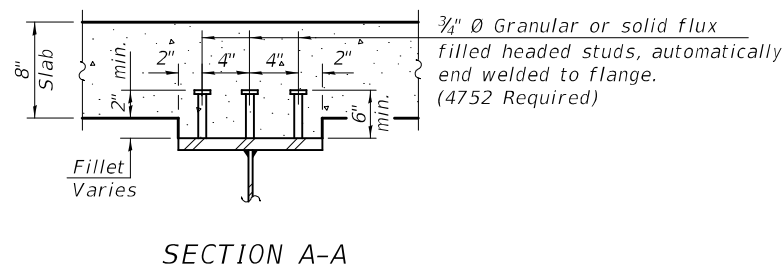
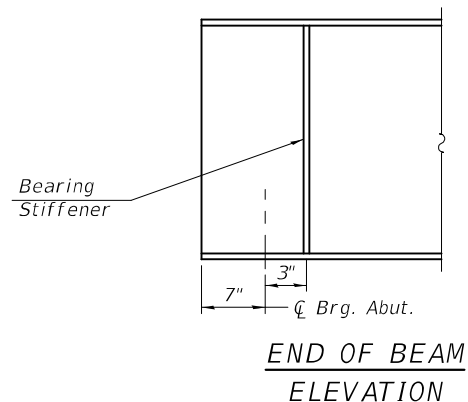
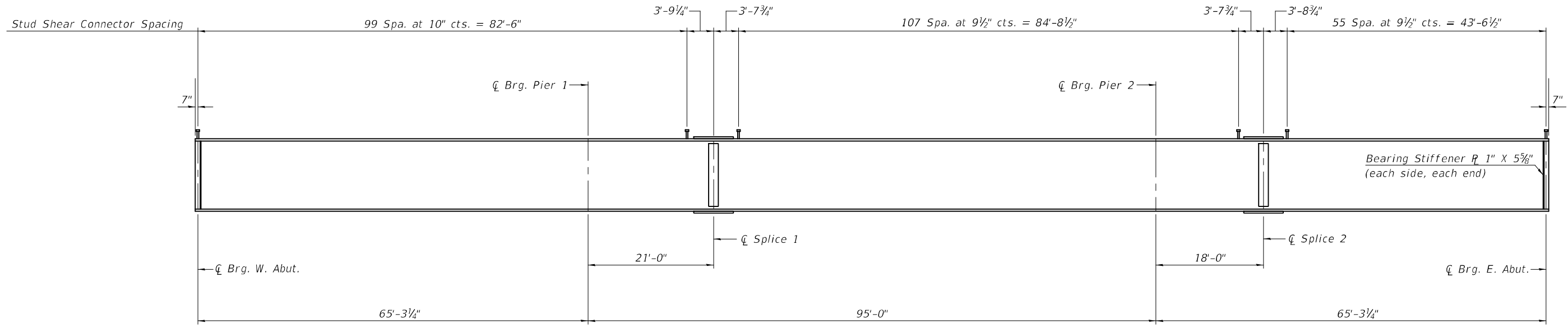
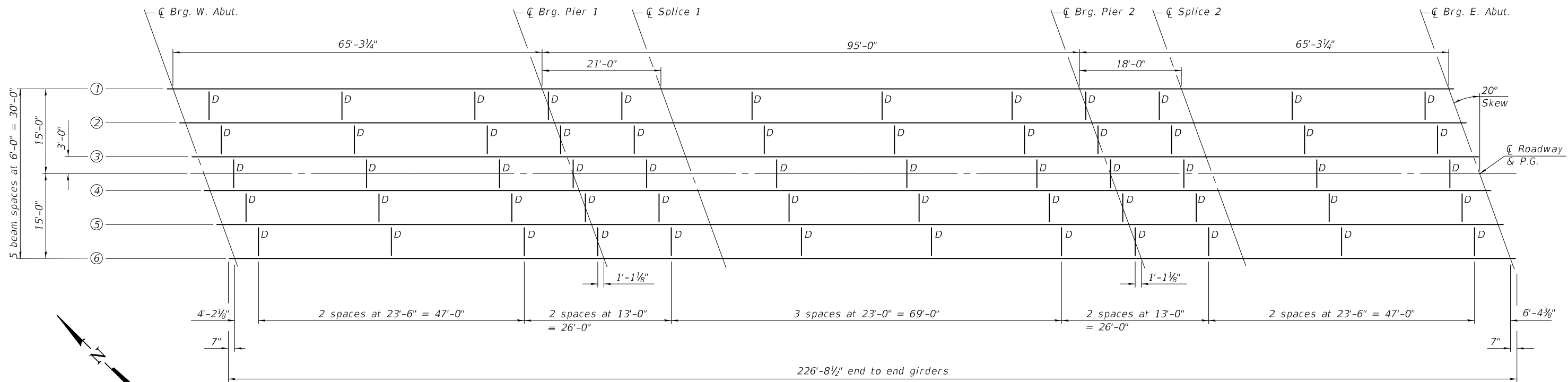
BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 071-0098

SHEET 15 OF 29 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	75
CONTRACT NO. 64H57				

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TOP OF BEAM ELEVATION VALUES

Location	☐ Brg. W. Abut.	☐ Brg. Pier 1	☐ Splice 1	☐ Brg. Pier 2	☐ Splice 2	☐ Brg. E. Abut.
Beam 1	765.60	766.01	766.14	766.16	766.16	766.06
Beam 2	765.73	766.13	766.25	766.26	766.26	766.16
Beam 3	765.84	766.23	766.35	766.35	766.34	766.23
Beam 4	765.86	766.24	766.36	766.34	766.34	766.22
Beam 5	765.79	766.16	766.28	766.25	766.24	766.12
Beam 6	765.70	766.06	766.18	766.14	766.13	766.00

Notes:
 All diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted.
 "CVN" denotes Charpy-V-Notch Impact energy requirements, zone 2.

* For fabrication use only

MODEL: 0710098-64H57-016
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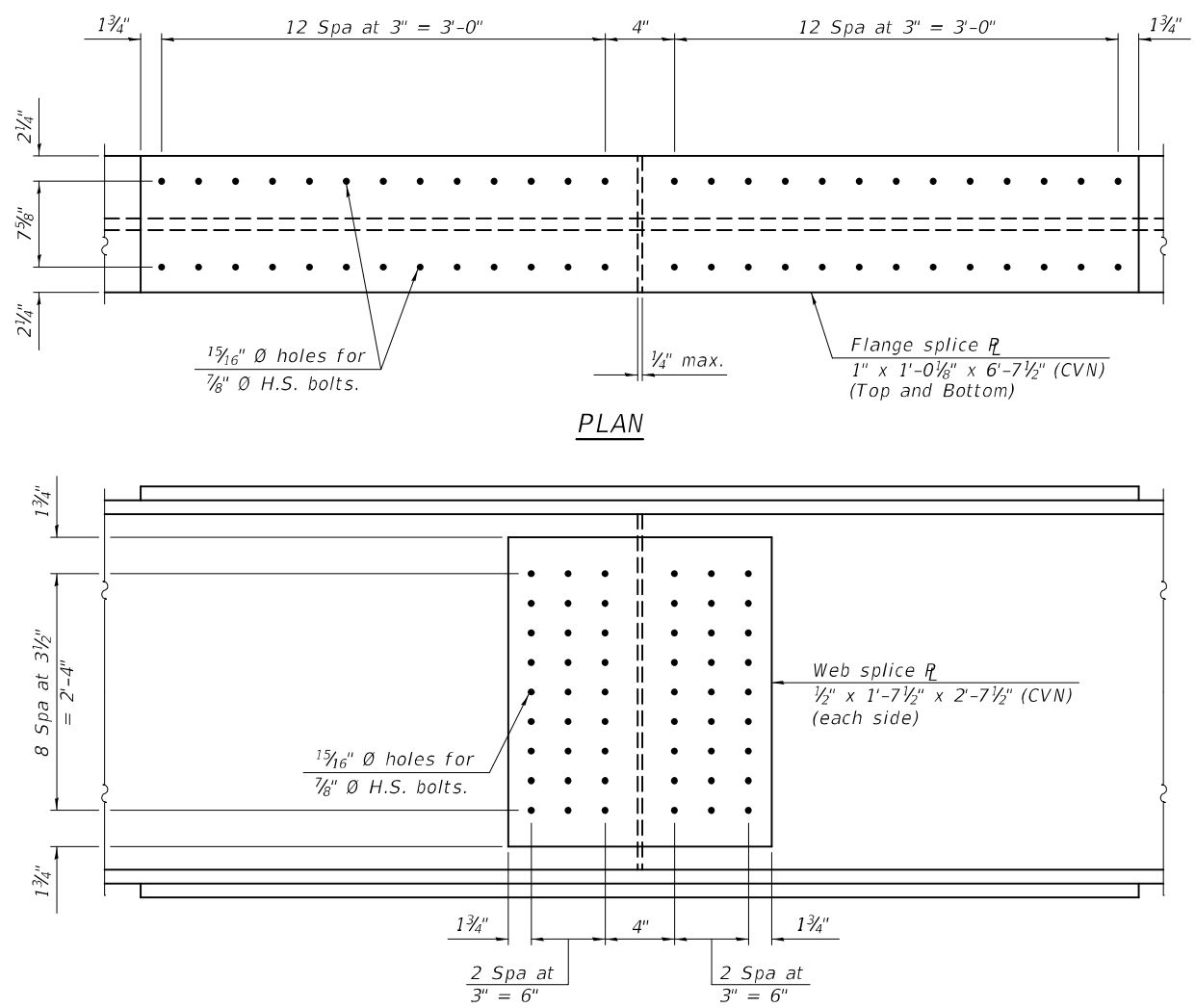
DESIGNED - NEPTALI RIVERA-MARTINEZ	EXAMINED - <i>Jaime F. Joffe</i>	DATE - October 17, 2022
CHECKED - JOSUE ORTIZ-VARELA	PASSED - <i>Jaime F. Joffe</i>	REVISOR -
DRAWN - GLENN W. STOVER	ENGINEER OF BRIDGES AND STRUCTURES	REVISION -
CHECKED - D.H.R. / T.L.M. / G.R.A.		

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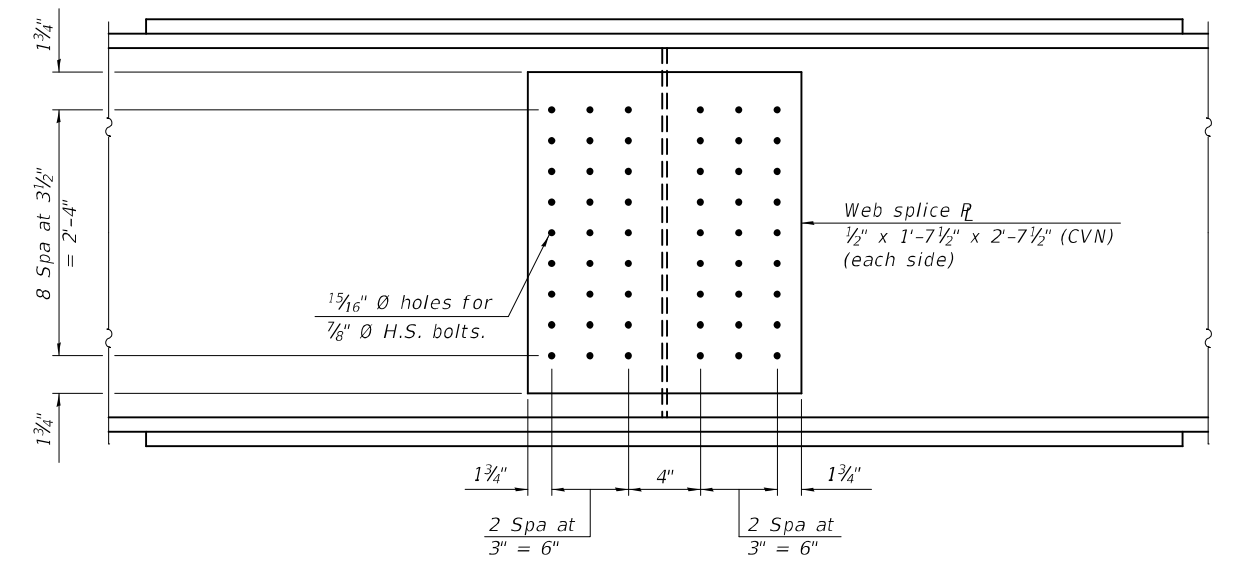
STRUCTURAL STEEL
 STRUCTURE NO. 071-0098

SHEET 16 OF 29 SHEETS

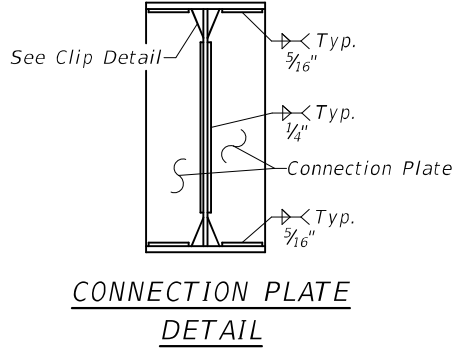
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	76
CONTRACT NO. 64H57				
ILLINOIS FED. AID PROJECT				



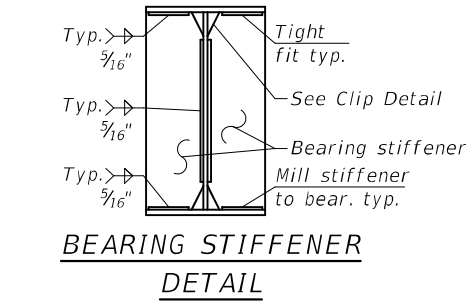
PLAN



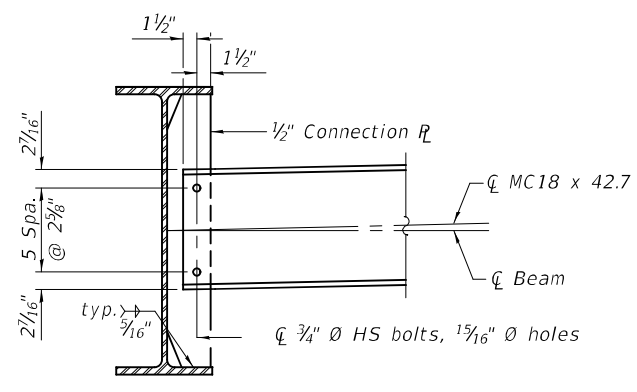
ELEVATION
SPLICE DETAIL
(12 Required)



CONNECTION PLATE
DETAIL



BEARING STIFFENER
DETAIL

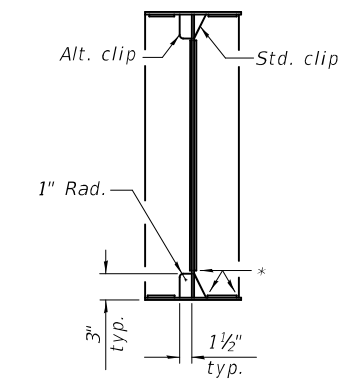


DIAPHRAGM D

Note:
Two hardened washers required for each set of oversized holes.
Alternate channels of equal depth and larger weight are permitted to facilitate material acquisition. Alternate channels, if utilized, shall be provided at no additional cost to the Department.
All splice plates, diaphragms, bearing stiffeners, connection plates, and angles shall be AASHTO M270, Grade 50W.

INTERIOR GIRDER MOMENT TABLE				
		0.4 Span 1 or 0.6 Span 3	Pier 1 & Pier 2	0.5 Span 2
I_s	(in ⁴)	11300	11300	11300
$I_c(n)$	(in ⁴)	28120	28120	28120
$I_c(3n)$	(in ⁴)	20514	20514	20514
$I_c(cr)$	(in ⁴)	-	13,924	-
S_s	(in ³)	623	623	623
$S_c(n)$	(in ³)	888	888	888
$S_c(3n)$	(in ³)	801	801	801
$S_c(cr)$	(in ³)	-	681	-
DC1	(k/ft)	0.83	0.83	0.83
M_{DC1}	(k)	196.2	563.4	367
DC2	(k/ft)	0.18	0.18	0.18
M_{DC2}	(k)	41.6	119.5	77.9
DW	(k/ft)	0.3	0.3	0.3
M_{DW}	(k)	71.4	204.9	133.5
LLDF		0.56	0.56	0.52
$M_{\psi + IM}$	(k)	703.4	839.9	808.3
M_u (Strength I)	(k)	1635.3	2630.8	2170.9
$\phi_r M_n$	(k)	4489.9	3400	4489.9
f_s DC1	(ksi)	3.78	10.85	7.07
f_s DC2	(ksi)	0.62	1.79	1.17
f_s DW	(ksi)	1.07	3.61	2.00
f_s ($\psi + IM$)	(ksi)	9.51	14.8	10.92
f_s (Service II)	(ksi)	17.83	30.47	24.44
$0.95R_n F_{yt}$	(ksi)	47.5	47.5	47.5
f_s (Total)(Strength I)	(ksi)	-	-	-
$\phi_r F_n$	(ksi)	-	-	-
V_f	(k)	26.3	27.3	21.0

	GIRDER REACTION TABLE			
	Abut.		Pier	
	Interior	Exterior	Interior	Exterior
LLDF	0.67	0.57	0.67	0.57
OCF	-	1.08	-	1.09
R_{DC1} (k)	18.3	17.0	74.7	69.4
R_{DC2} (k)	3.9	3.9	15.9	15.9
R_{DW} (k)	6.7	6.7	27.2	27.2
R_{ψ} (k)	56.8	48.7	93.4	79.5
R_{IM} (k)	14.1	12.1	18.7	15.9
R_{TOTAL} (k)	99.8	88.4	229.9	207.9



WELD LIMITS & CLIP DETAILS
* Stop welds 1/4" (1/8"±) from edges as shown

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

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

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

$I_c(cr), S_c(cr)$: Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing f_s (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads (in.⁴ and in.³).

DC1: Un-factored non-composite dead load (kips/ft.).

M_{DC1} : Un-factored moment due to non-composite dead load (kip-ft.).

DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).

M_{DC2} : Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).

DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).

M_{DW} : Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).

LLDF: Live Load Distribution Factor for moment and shear computed according to Article 4.6.2.2 and further IDOT provisions.

$M_{\psi + IM}$: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

M_u (Strength I): Factored design moment (kip-ft.).
1.25 ($M_{DC1} + M_{DC2}$) + 1.5 M_{DW} + 1.75 $M_{\psi + IM}$

$\phi_r M_n$: Compact composite positive moment capacity computed according to Article 6.10.7.1 or non-slender negative moment capacity according to Article A6.1.1 or A6.1.2 (kip-ft.).

f_s DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).
 M_{DC1} / S_{nc}

f_s DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).
 $M_{DC2} / S_c(3n)$ or $M_{DC2} / S_c(cr)$ as applicable.

f_s DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).
 $M_{DW} / S_c(3n)$ or $M_{DW} / S_c(cr)$ as applicable.

f_s ($\psi + IM$): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).
 $M_{\psi + IM} / S_c(n)$ or $M_{\psi + IM} / S_c(cr)$ as applicable.

f_s (Service II): Sum of stresses as computed below (ksi).
 $f_s DC1 + f_s DC2 + f_s DW + 1.3 f_s(\psi + IM)$

$0.95R_n F_{yt}$: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).

f_s (Total)(Strength I): Sum of stresses as computed below on non-compact section (ksi).
1.25 ($f_s DC1 + f_s DC2$) + 1.5 $f_s DW$ + 1.75 $f_s(\psi + IM)$

$\phi_r F_n$: Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).

V_f : Maximum factored shear range in span computed according to Article 6.10.10.

OCF: Obtuse Correction Factor applied to non-continuous exterior beam ends and computed according to Article 4.6.2.2.3c-1 or as further simplified by IDOT provisions.

R_{DC1} : Un-factored reaction due to non-composite dead load (kip).

R_{DC2} : Un-factored reaction due to long-term composite (superimposed excluding future wearing surface) dead load (kip).

R_{DW} : Un-factored reaction due to long-term composite (superimposed future wearing surface only) dead load (kip).

R_{ψ} : Un-factored live load reaction (kip).

R_{IM} : Un-factored dynamic load allowance (impact) (kip).

Note:
 M_{ψ} and R_{ψ} include the effects of centrifugal force and superelevation.

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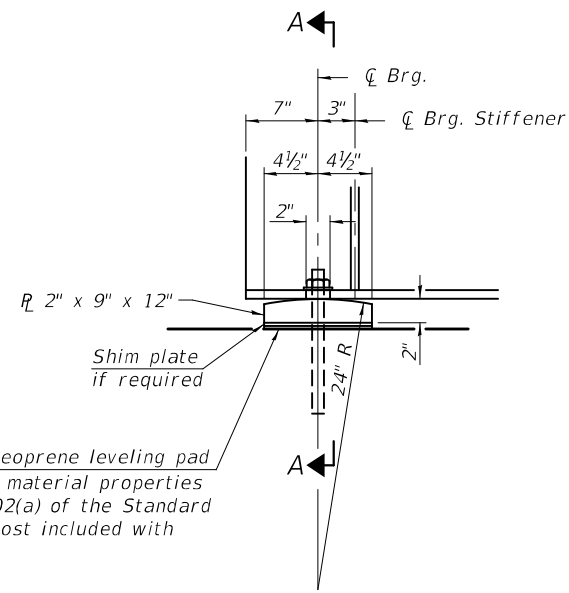
DESIGNED - NEPTALI RIVERA-MARTINEZ	EXAMINED - <i>Jaime F. Joffe</i>	DATE - October 17, 2022
CHECKED - JOSUE ORTIZ-VARELA	PASSED - <i>Jaime F. Joffe</i>	REVISIONS -
DRAWN - GLENN W. STOVER		
CHECKED - D.H.R. / T.L.M. / G.R.A.		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL DETAILS
STRUCTURE NO. 071-0098

SHEET 17 OF 29 SHEETS

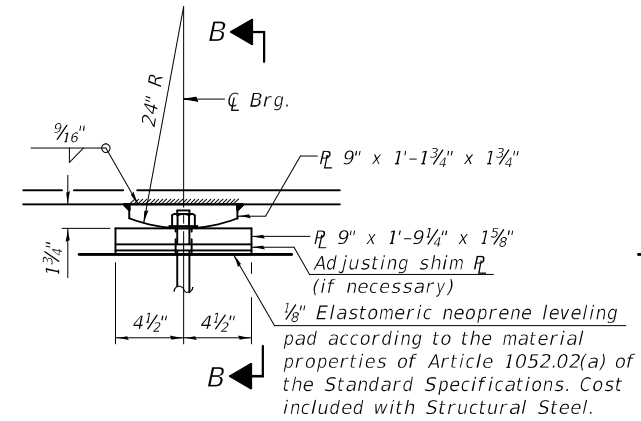
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	77
CONTRACT NO. 64H57				
ILLINOIS FED. AID PROJECT				



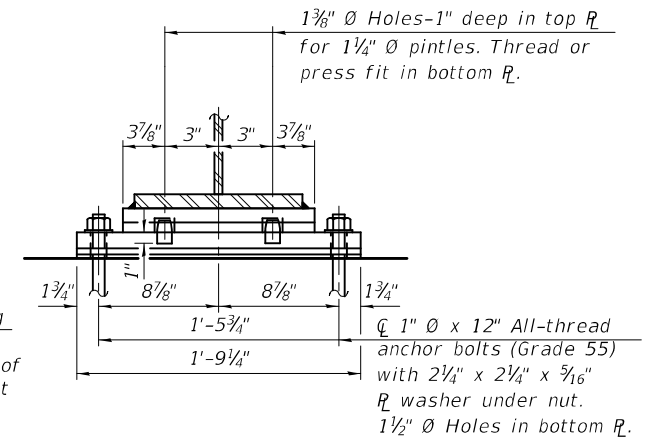
ELEVATION AT ABUTMENT

1/8" elastomeric neoprene leveling pad according to the material properties of Article 1052.02(a) of the Standard Specifications. Cost included with Structural Steel.

FIXED BEARING
(12 required)

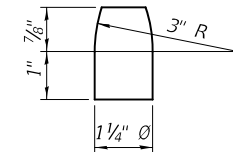


ELEVATION AT PIER



SECTION B-B

FIXED BEARING
(12 required)



PINTLE

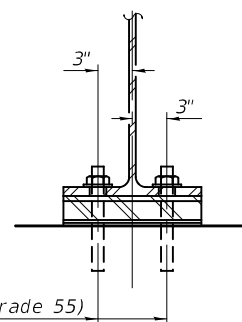
Notes:

Anchor bolts at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.

Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

Anchor bolts shall be according to Article 521.06 of the Standard Specifications.

All bearing plates, shim plates, and pintles shall be AASHTO M270, Grade 50W.



SECTION A-A

1" Ø x 12" anchor bolts (Grade 55) with 2 1/4" x 2 1/4" x 5/16" R washer under nut. 1 3/8" x 2" slotted hole in flange. 1 1/2" Ø holes in bearing plate.

BILL OF MATERIAL

Item	Unit	Total
Anchor Bolts, 1"	Each	48

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DESIGNED -	NEPTALI RIVERA-MARTINEZ
CHECKED -	JOSUE ORTIZ-VARELA
DRAWN -	GLENN W. STOVER
CHECKED -	D.H.R. / T.L.M. / G.R.A.

EXAMINED	<i>Jaime F. Joffe</i>	DATE -	October 17, 2022
PASSED	<i>Jaime F. Joffe</i>	REVISED -	
	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

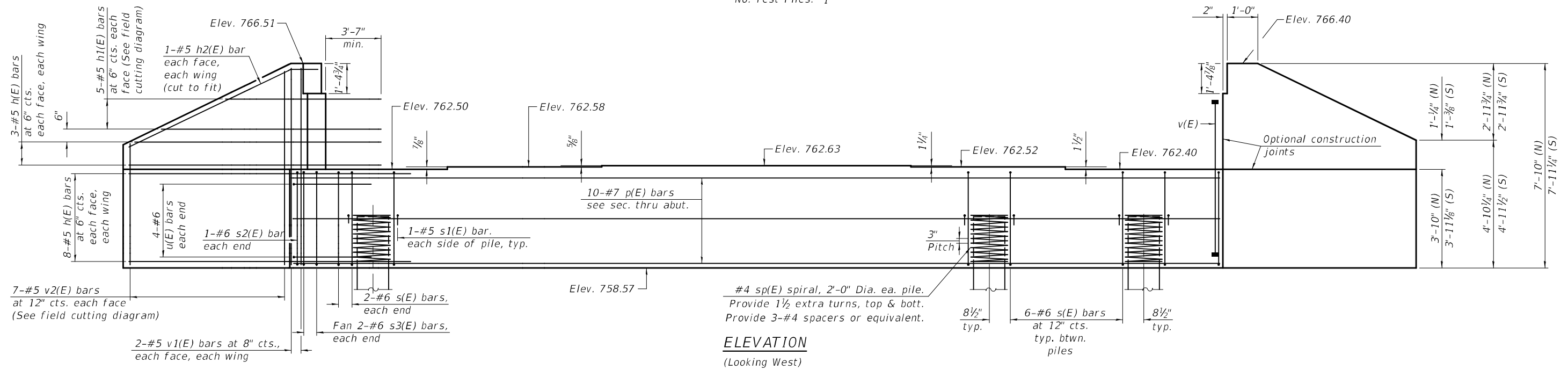
**BEARING DETAILS
STRUCTURE NO. 071-0098**

SHEET 18 OF 29 SHEETS

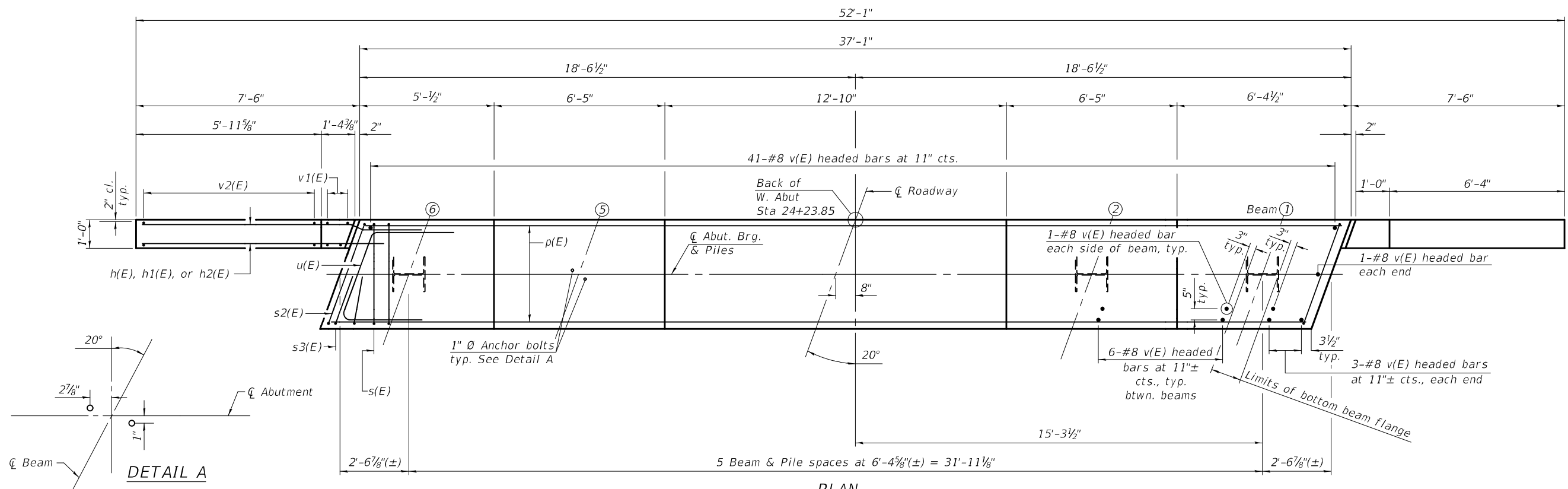
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	78
CONTRACT NO. 64H57				
ILLINOIS FED. AID PROJECT				

PILE DATA

Type: HP14x73 with pile shoes
 Nominal Required Bearing: 578 (kips)
 Factored Resistance Available: 318 (kips)
 Est. Length: 53'-0"
 No. Production Piles: 5
 No. Test Piles: 1



ELEVATION
(Looking West)



PLAN



DETAIL A

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DESIGNED - NEPTALI RIVERA-MARTINEZ	EXAMINED - <i>Jaime F. [Signature]</i>	DATE - October 17, 2022
CHECKED - JOSUE ORTIZ-VARELA	PASSED - <i>Jaime F. [Signature]</i>	REVISIONS
DRAWN - GLENN W. STOVER		REVISIONS
CHECKED - D.H.R. / T.L.M. / G.R.A.		REVISIONS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

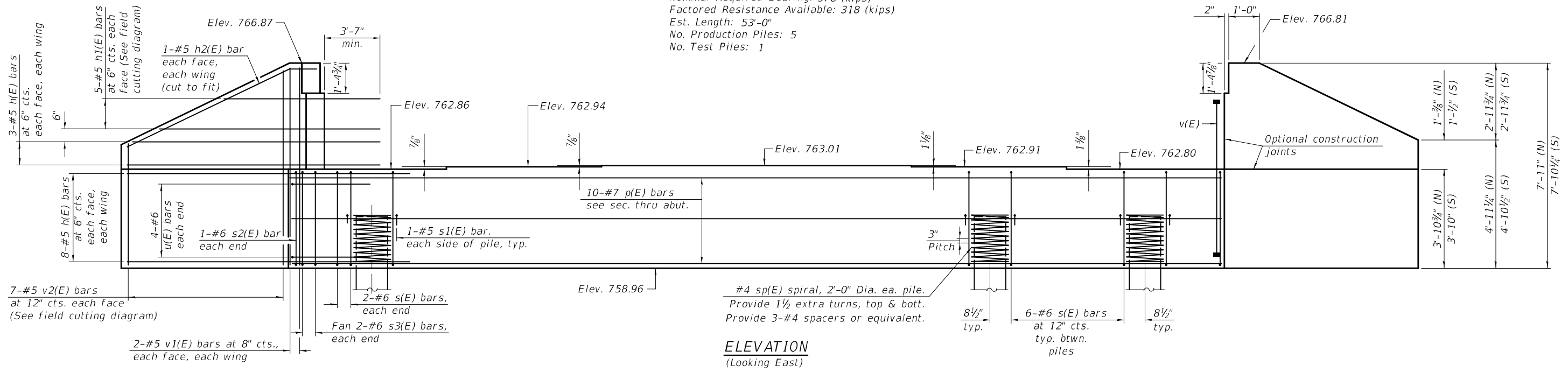
WEST ABUTMENT
STRUCTURE NO. 071-0098

SHEET 19 OF 29 SHEETS

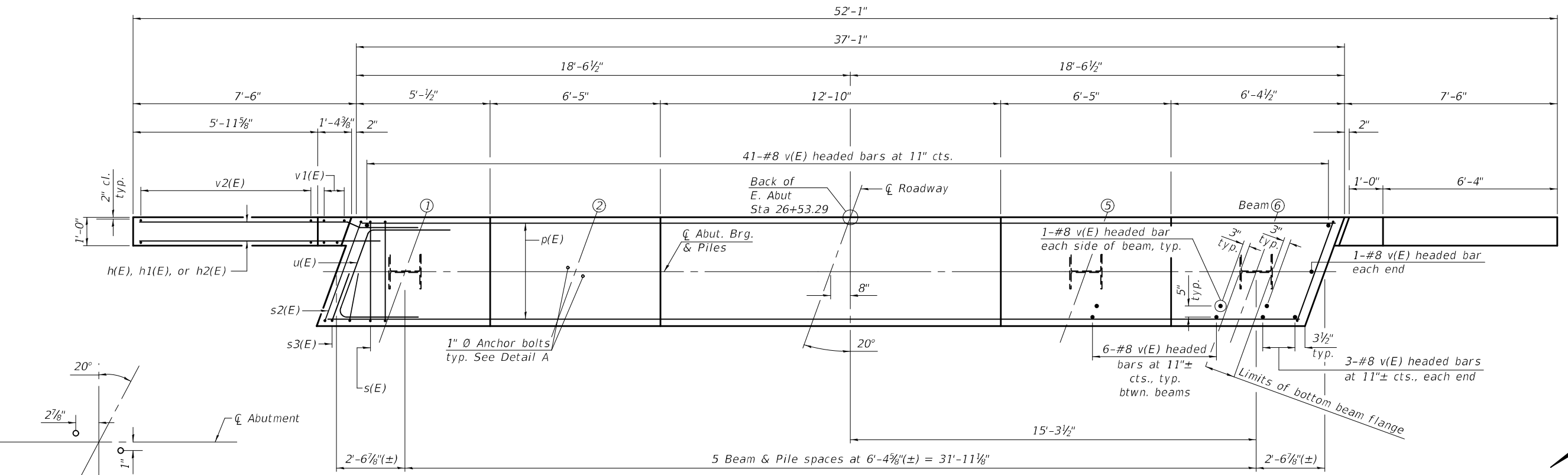
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	79
CONTRACT NO. 64H57				
ILLINOIS FED. AID PROJECT				

PILE DATA

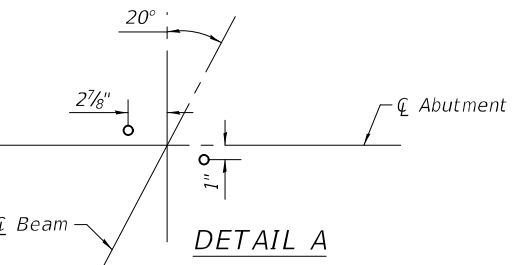
Type: HP14x73 with pile shoes
 Nominal Required Bearing: 578 (kips)
 Factored Resistance Available: 318 (kips)
 Est. Length: 53'-0"
 No. Production Piles: 5
 No. Test Piles: 1



ELEVATION
(Looking East)



PLAN



DETAIL A

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DESIGNED -	NEPHTALI RIVERA-MARTINEZ
CHECKED -	JOSUE ORTIZ-VARELA
DRAWN -	GLENN W. STOVER
CHECKED -	D.H.R. / T.L.M. / G.R.A.

EXAMINED	<i>James F. [Signature]</i>
PASSED	<i>James F. [Signature]</i>

DATE -	October 17, 2022
REVISED -	
REVISED -	

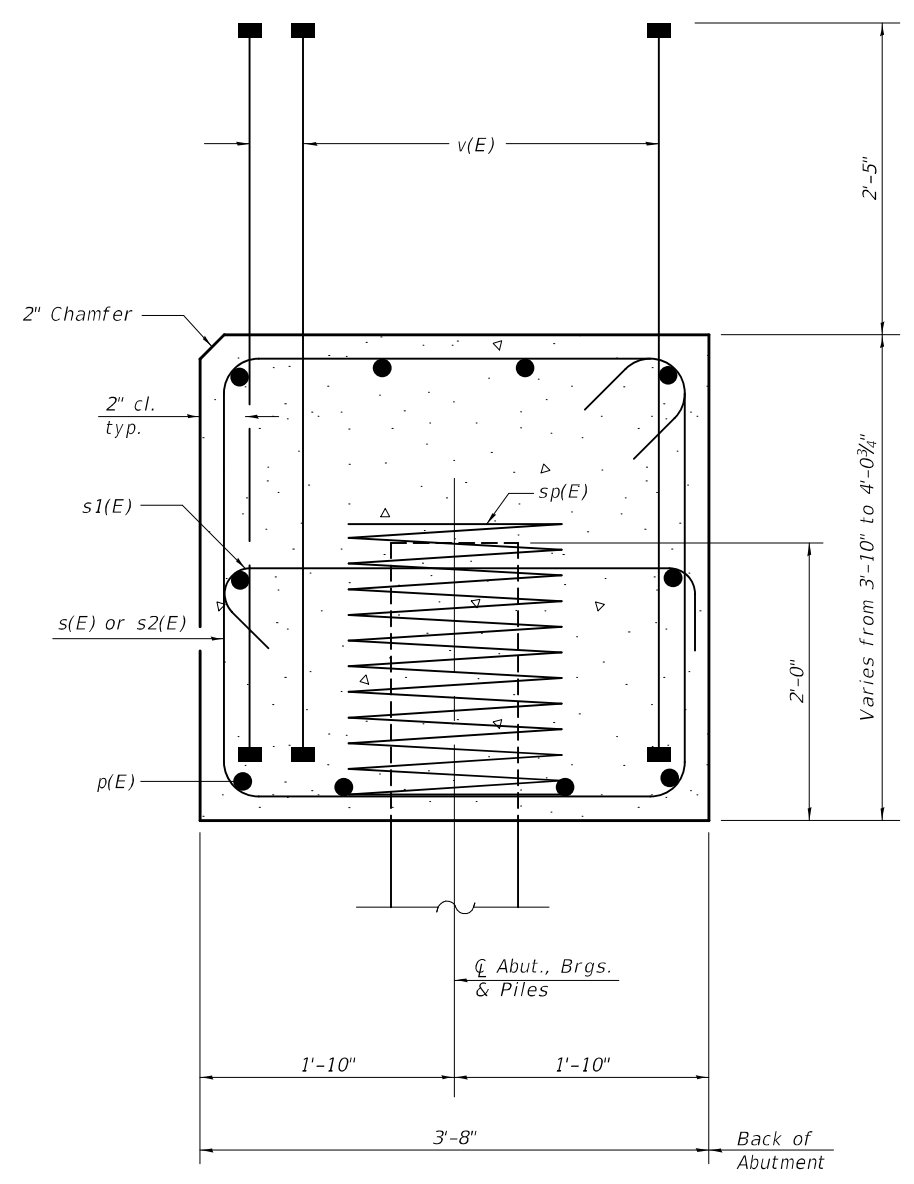
STATE OF ILLINOIS
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EAST ABUTMENT
STRUCTURE NO. 071-0098

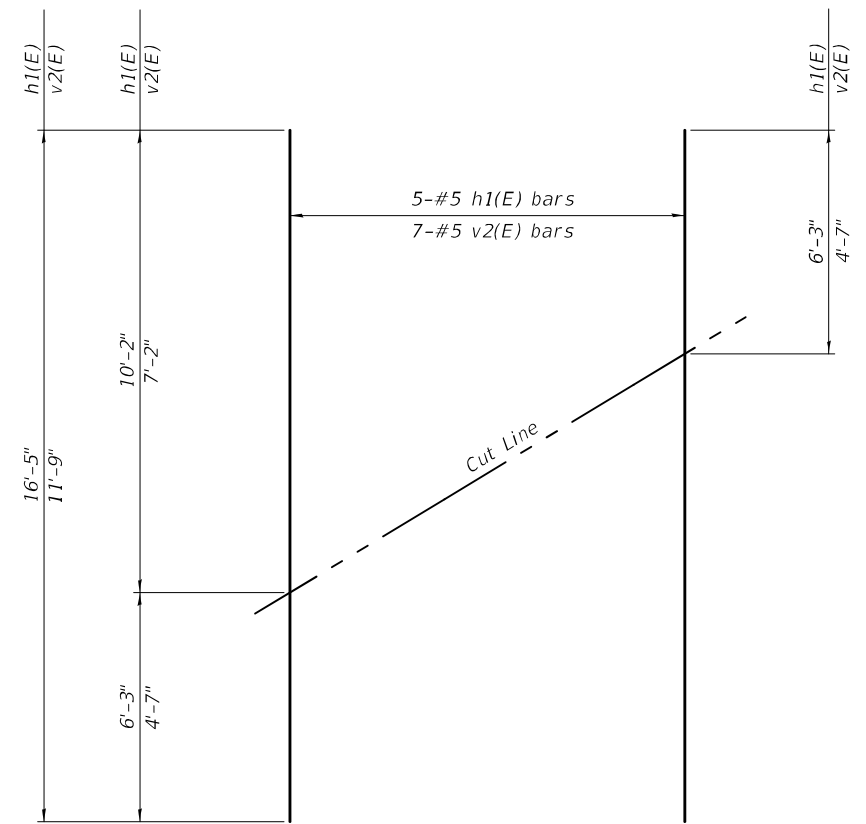
SHEET 20 OF 29 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	80
CONTRACT NO. 64H57				
ILLINOIS FED. AID PROJECT				

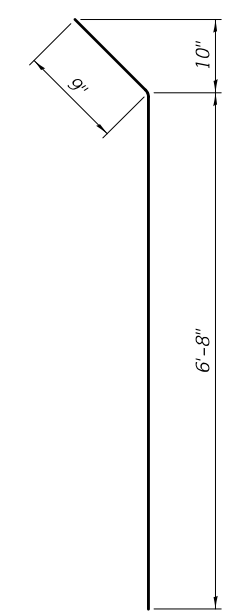
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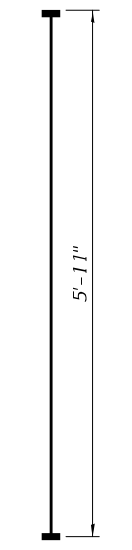
SECTION THRU ABUTMENT
 Dimensions at right L's to Abutment



FIELD CUTTING DIAGRAM
 Order h1(E) and v2(E) full length. Cut as shown and use remainder of bars in opposite wing.



BAR h2(E)



**BAR v(E)
 (Headed)**

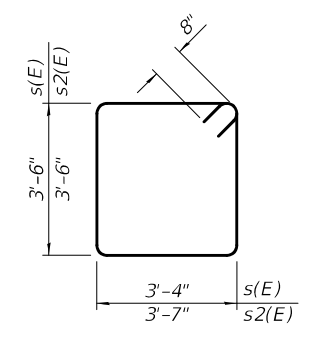
Notes:
 Pour steps monolithically with cap.
 Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.
 For details of piles see sheet of 25 of 29.

BILL OF MATERIAL
 West Abutment

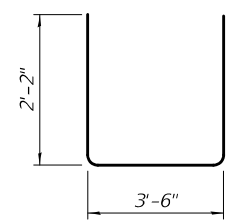
Bar	No.	Size	Length	Shape
h(E)	44	#5	10'-11"	—
h1(E)	20	#5	16'-5"	—
h2(E)	4	#5	7'-5"	—
p(E)	10	#7	36'-9"	—
s(E)	34	#6	15'-0"	□
s1(E)	12	#5	4'-4"	□
s2(E)	2	#6	15'-6"	□
s3(E)	4	#6	7'-10"	□
sp(E)	6	#4	2'-0"	≡≡≡
u(E)	8	#6	12'-1"	▤
v(E)	91	#8	5'-11"	↔
v1(E)	8	#5	7'-7"	—
v2(E)	14	#5	11'-9"	—
Structure Excavation	Cu. Yd.	119		
Concrete Structures	Cu. Yd.	23.7		
Reinforcement Bars, Epoxy Coated	Pound	4670		
Furnishing Steel Piles HP14X73	Foot	265		
Driving Piles	Foot	265		
Test Pile Steel HP14X73	Each	1		
Pile Shoes	Each	6		

BILL OF MATERIAL
 East Abutment

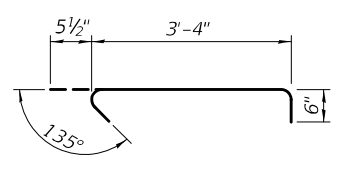
Bar	No.	Size	Length	Shape
h(E)	44	#5	10'-11"	—
h1(E)	20	#5	16'-5"	—
h2(E)	4	#5	7'-5"	—
p(E)	10	#7	36'-9"	—
s(E)	34	#6	15'-0"	□
s1(E)	12	#5	4'-4"	□
s2(E)	2	#6	15'-6"	□
s3(E)	4	#6	7'-10"	□
sp(E)	6	#4	2'-0"	≡≡≡
u(E)	8	#6	12'-1"	▤
v(E)	91	#8	5'-11"	↔
v1(E)	8	#5	7'-7"	—
v2(E)	14	#5	11'-9"	—
Structure Excavation	Cu. Yd.	119		
Concrete Structures	Cu. Yd.	23.7		
Reinforcement Bars, Epoxy Coated	Pound	4670		
Furnishing Steel Piles HP14X73	Foot	265		
Driving Piles	Foot	265		
Test Pile Steel HP14X73	Each	1		
Pile Shoes	Each	6		



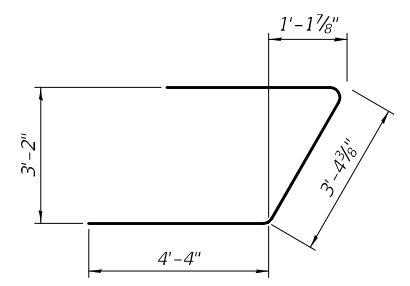
BAR s(E) & s2(E)



BAR s3(E)



BAR s1(E)



BAR u(E)

DESIGNED - NEPHTALI RIVERA-MARTINEZ	EXAMINED - <i>Jaime F. Joffe</i>	DATE - October 17, 2022
CHECKED - JOSUE ORTIZ-VALERO	PASSED - <i>Jaime F. Joffe</i>	REVISOR -
DRAWN - GLENN W. STOVER	ENGINEER OF BRIDGES AND STRUCTURES	REVISOR -
CHECKED - D.H.R. / T.L.M. / G.R.A.		

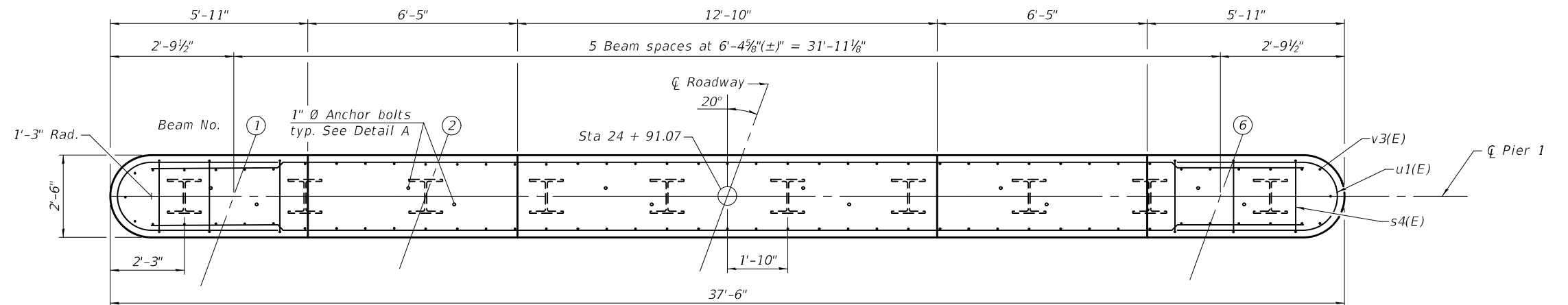
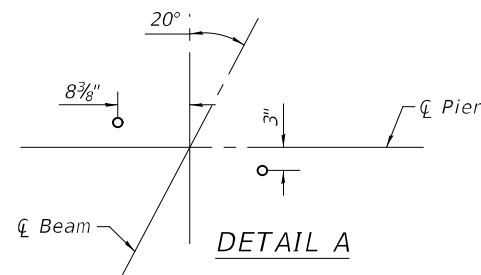
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ABUTMENT DETAILS
 STRUCTURE NO. 071-0098**

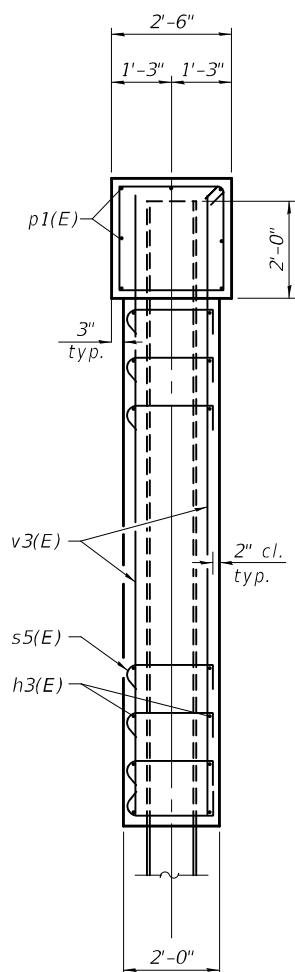
SHEET 21 OF 29 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	81
CONTRACT NO. 64H57				
ILLINOIS FED. AID PROJECT				

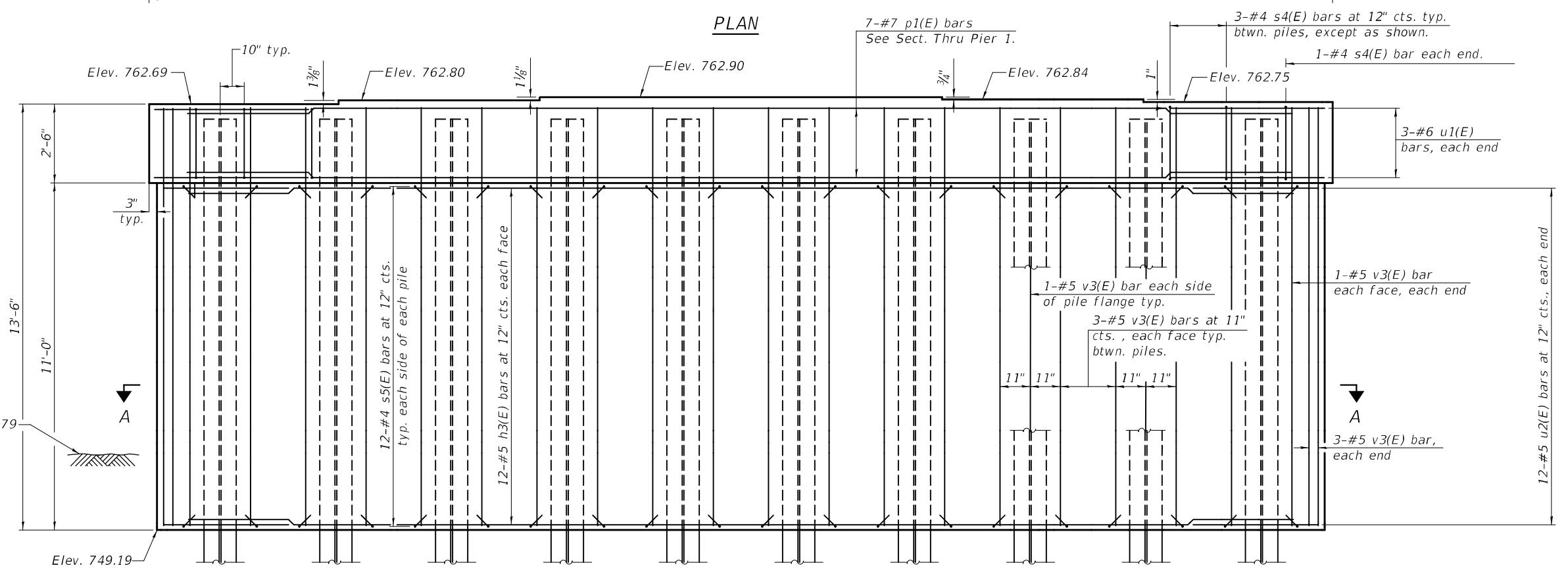
Notes:
 Pour steps monolithically with cap.
 See sheet 24 of 29 for additional pier details and Bill of Material.
 See sheet 25 of 29 for pile details.



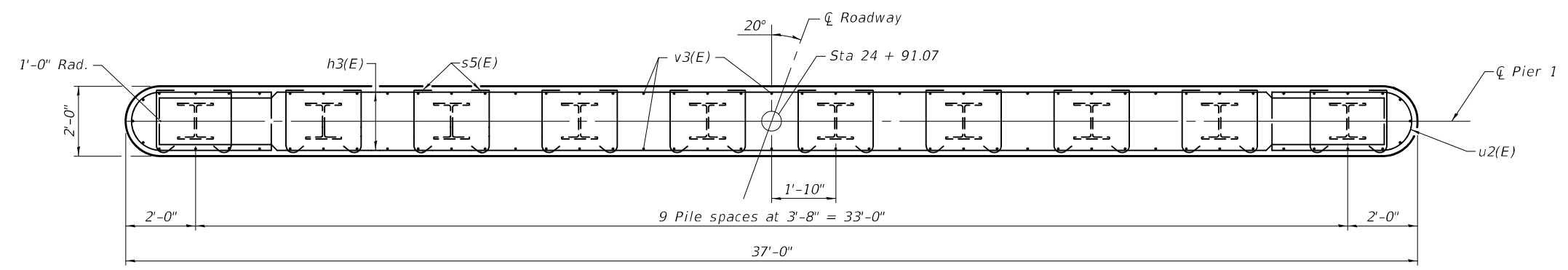
PLAN



SECTION THRU PIER 1



ELEVATION



SECTION A-A

PILE DATA
 Type: HP14X73 with pile shoes
 Nominal Required Bearing: 578 (kips)
 Factored Resistance Available: 282 (kips)
 Est. Length: 50'-0"
 No. Production Piles: 9
 No. Test Piles: 1

MODEL: 0710098-64H57-022
 FILE NAME: p:\w\p\w\benley.com\FWIDOT\Documents\Bureau of Bridges and Structures\Projects\0710098\0710098-64H57.dgn

DESIGNED -	NEPTALI RIVERA-MARTINEZ	EXAMINED	
CHECKED -	JOSUE ORTIZ-VARELA	PASSED	
DRAWN -	GLENN W. STOVER		
CHECKED -	D.H.R. / T.L.M. / G.R.A.		

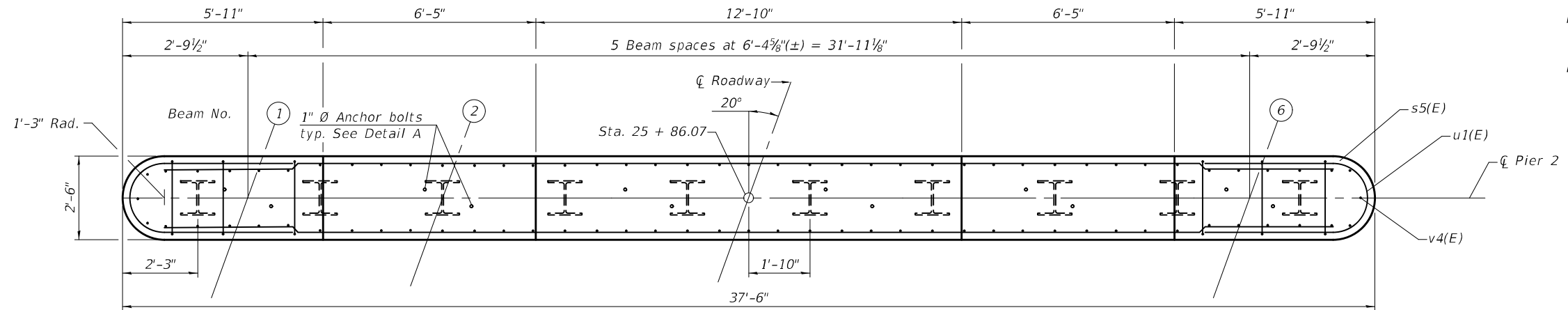
DATE - October 17, 2022
 REVISIONS:
 REVISION -
 REVISION -
Jaime F. [Signature]
 ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

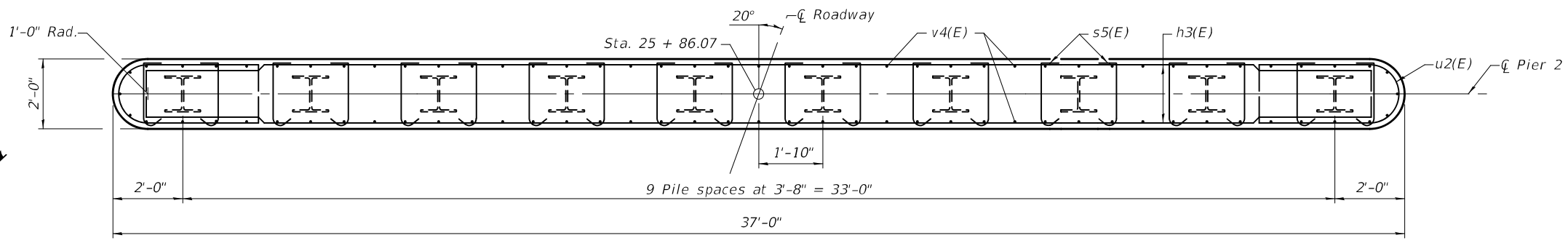
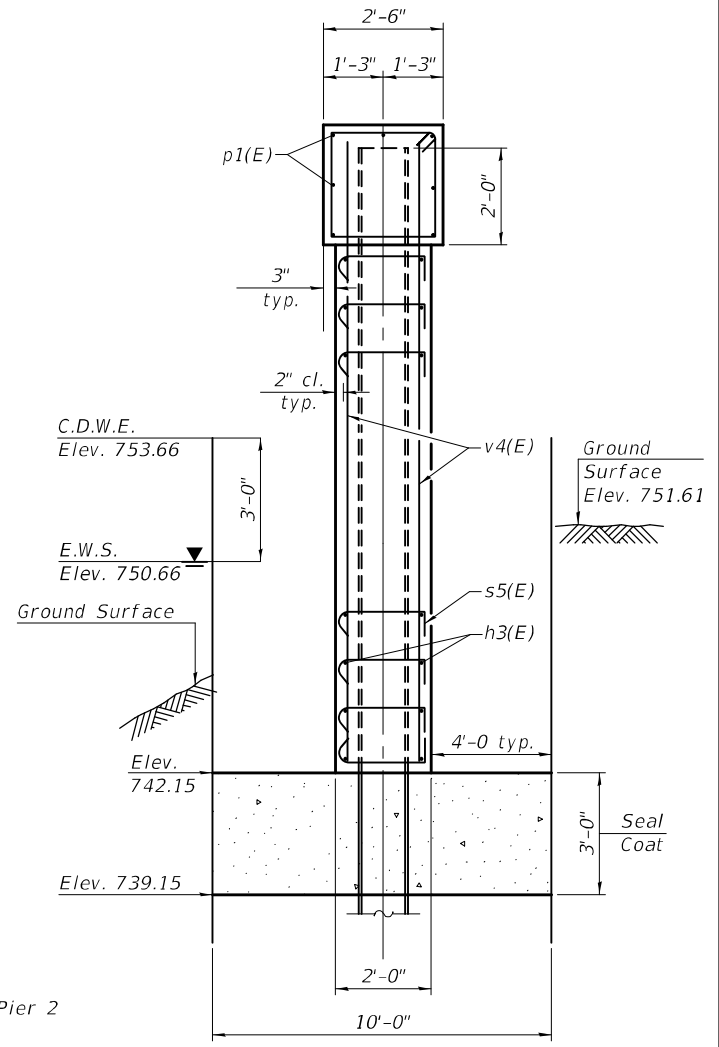
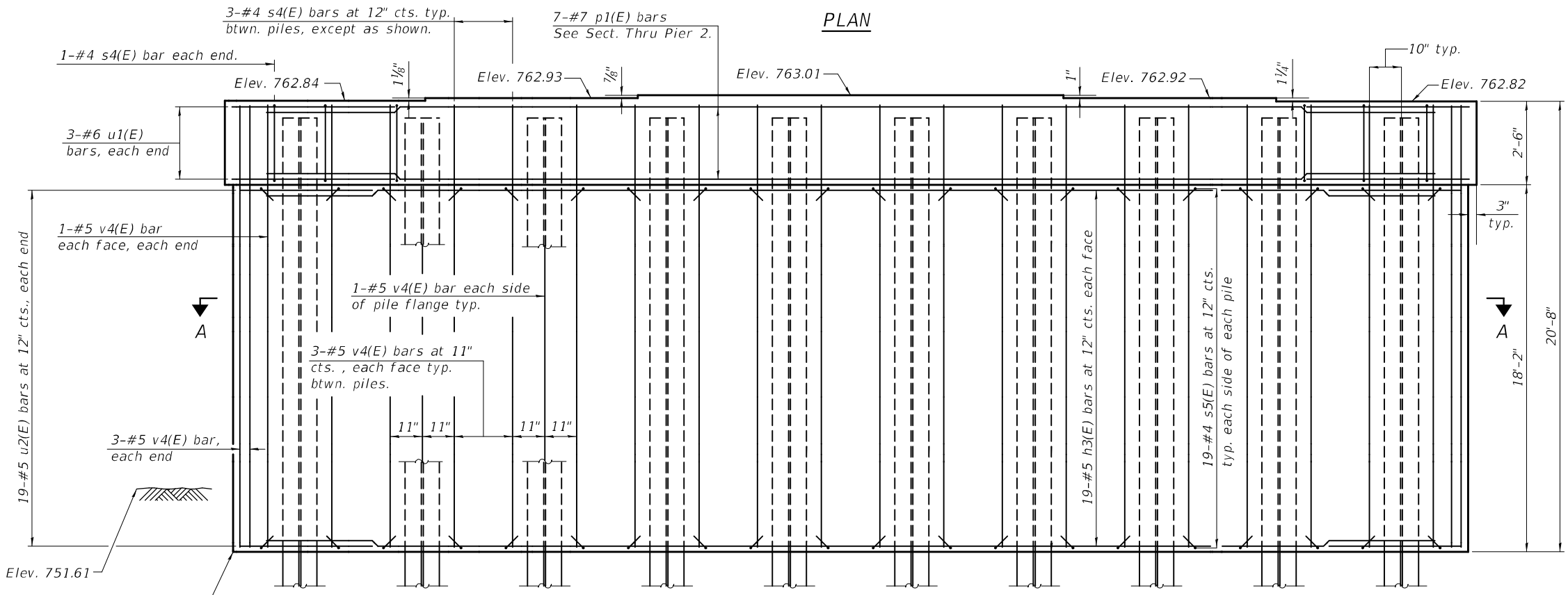
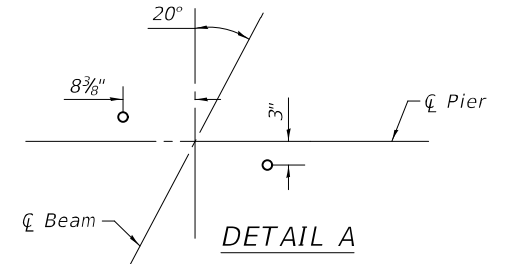
PIER 1 PLAN & ELEVATION
 STRUCTURE NO. 071-0098

SHEET 22 OF 29 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	82
CONTRACT NO. 64H57				
ILLINOIS FED. AID PROJECT				



Notes:
 Pour steps monolithically with cap.
 See sheet 24 of 29 for additional pier details and Bill of Material.
 See sheet 25 of 29 for pile details.



SECTION THRU PIER 2

PILE DATA

Type: HP14x73 with pile shoes
 Nominal Required Bearing: 578 (kips)
 Factored Resistance Available: 285 (kips)
 Est. Length: 60'-0"
 No. Production Piles: 9
 No. Test Piles: 1

MODEL: 0710098-64H57-023
 FILE NAME: p:\w\p\w\benley.com\FWIDOT\Documents\Bridges and Structures\Projects\0710098\CADD Plans\0710098-64H57.dgn

DESIGNED -	NEPITALI RIVERA-MARTINEZ
CHECKED -	JOSUE ORTIZ-VARELA
DRAWN -	GLENN W. STOVER
CHECKED -	D.H.R. / T.L.M. / G.R.A.

EXAMINED	<i>Jaime F. [Signature]</i>
PASSED	<i>Jaime F. [Signature]</i>

DATE -	October 17, 2022
REVISED -	
REVISED -	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PIER 2 PLAN & ELEVATION
 STRUCTURE NO. 071-0098

SHEET 23 OF 29 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	83
CONTRACT NO. 64H57				
ILLINOIS FED. AID PROJECT				

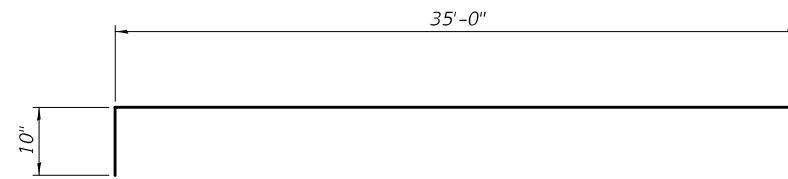
10/17/2022 3:12:57 PM

**PIER 1
BILL OF MATERIAL**

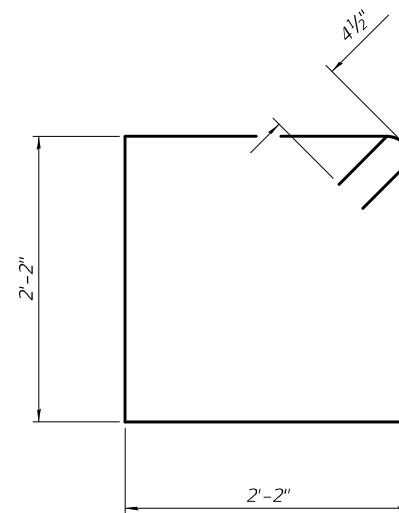
Bar	No.	Size	Length	Shape
h3(E)	24	#5	36'-8"	
p1(E)	7	#7	35'-0"	
s4(E)	29	#4	9'-5"	
s5(E)	240	#4	2'-10"	
u1(E)	6	#6	10'-11"	
u2(E)	24	#5	10'-8"	
v3(E)	84	#5	13'-2"	
Structure Excavation		Cu. Yd.	24	
Concrete Structures		Cu. Yd.	38.8	
Reinforced Bars, Epoxy Coated		Pound	3570	
Furnishing Steel Piles HP14x73		Foot	450	
Driving Piles		Foot	450	
Pile Shoes		Each	10	
Test Pile Steel HP14x73		Each	1	

**PIER 2
BILL OF MATERIAL**

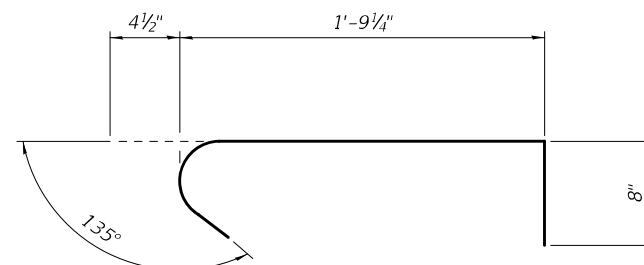
Bar	No.	Size	Length	Shape
h3(E)	38	#5	36'-8"	
p1(E)	7	#7	35'-0"	
s4(E)	29	#4	9'-5"	
s5(E)	380	#4	2'-10"	
u1(E)	6	#6	10'-11"	
u2(E)	38	#5	10'-8"	
v4(E)	84	#5	20'-4"	
Concrete Structures		Cu. Yd.	58.1	
Seal Coat Concrete		Cu. Yd.	50.0	
Reinforced Bars, Epoxy Coated		Pound	5160	
Furnishing Steel Piles HP14x73		Foot	540	
Driving Piles		Foot	540	
Test Pile Steel HP14x73		Each	1	
Cofferdam Excavation		Cu. Yd.	202	
Cofferdam (Type 2) (Location - 1)		Each	1	
Pile Shoes		Each	10	



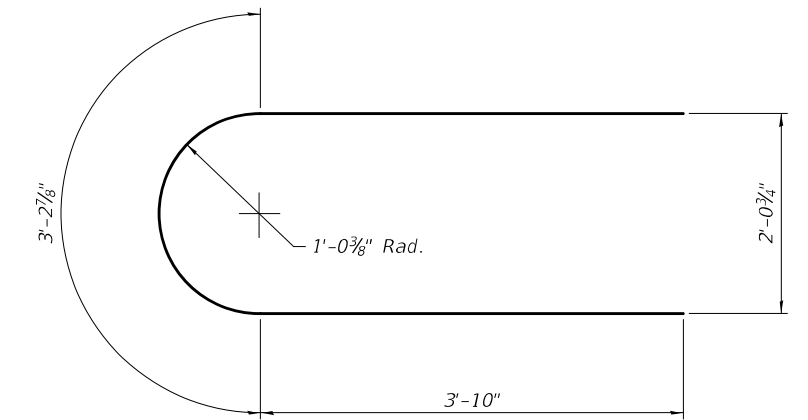
BAR h3(E)



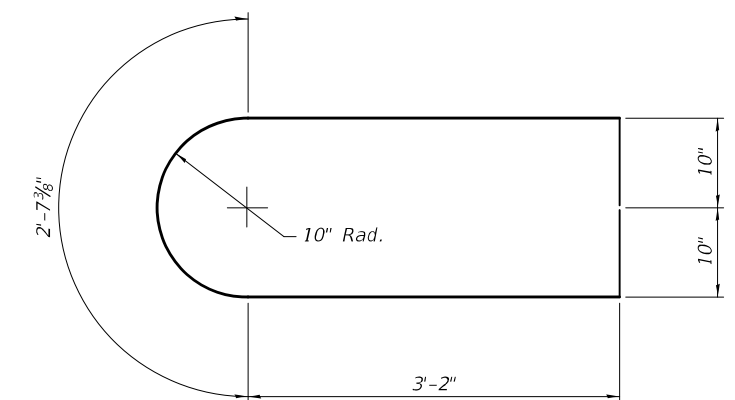
BAR s4(E)



BAR s5(E)



BAR u1(E)



BAR u2(E)

MODEL: 0710098-64H57-024
FILE NAME: p:\w\p\w\benley.com\FWIDOT\Documents\DOT Offices\Bureau of Bridges and Structures\Projects\0710098\0710098-64H57.dgn

DESIGNED -	NEPTALI RIVERA-MARTINEZ
CHECKED -	JOSUE ORTIZ-VARELA
DRAWN -	GLENN W. STOVER
CHECKED -	D.H.R. / T.L.M. / G.R.A.

EXAMINED		DATE -	October 17, 2022
PASSED		REVISED -	
	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -	

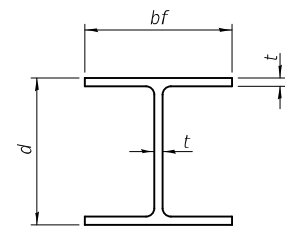
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PIER DETAILS
STRUCTURE NO. 071-0098**

SHEET 24 OF 29 SHEETS

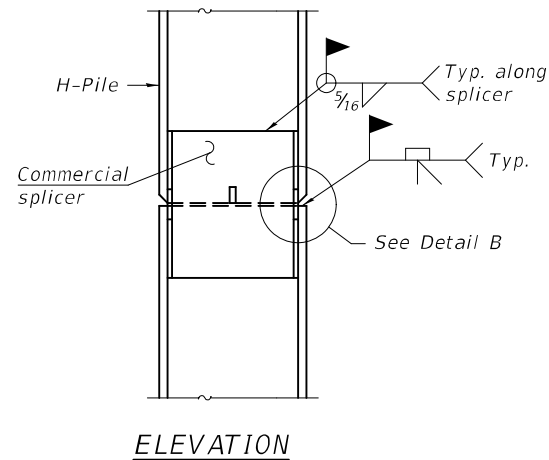
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	84
			CONTRACT NO. 64H57	
		ILLINOIS	FED. AID PROJECT	

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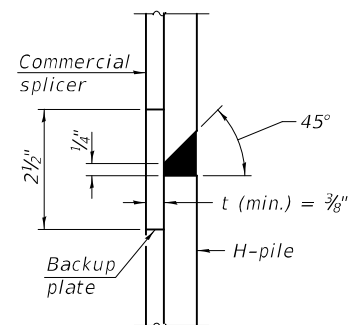


STEEL PILE TABLE

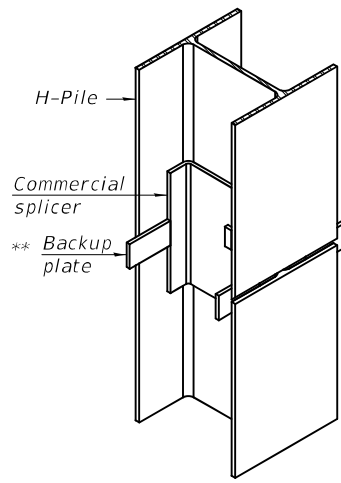
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 3/8"	14 3/4"	5/8"	30"
x73	13 3/8"	14 3/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"



ELEVATION

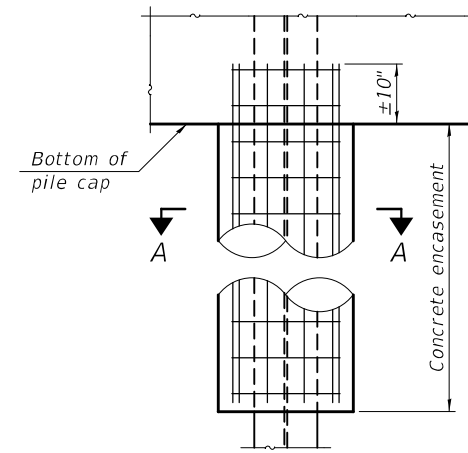


DETAIL "B"

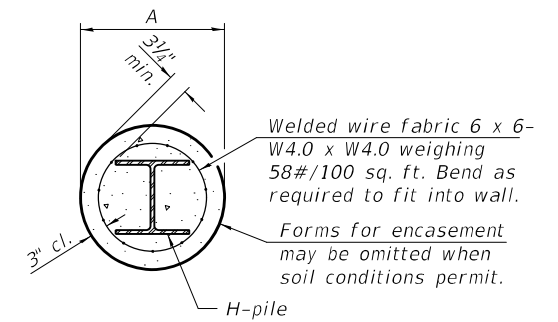


ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE

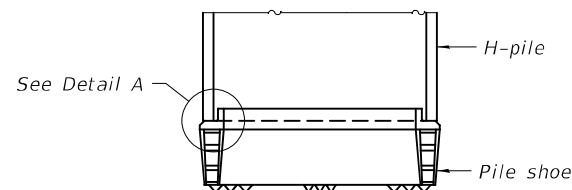


ELEVATION

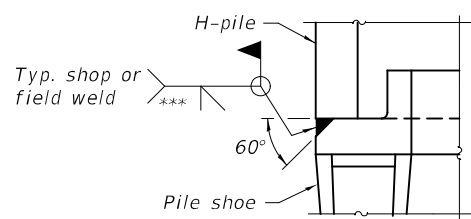


SECTION A-A

INDIVIDUAL PILE CONCRETE ENCASUREMENT (when specified)



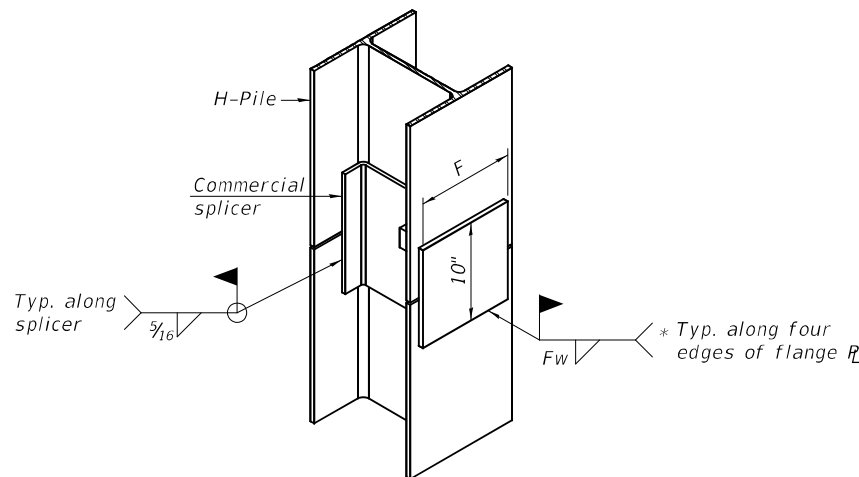
ELEVATION



DETAIL A

SHOE ATTACHMENT

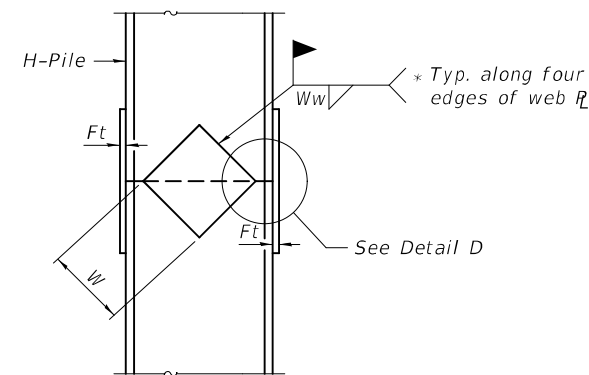
Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.



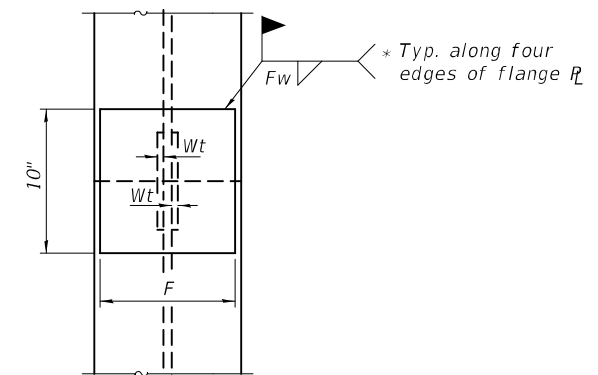
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

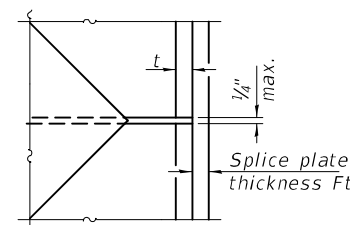
- * Interrupt welds 1/4" from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (5/16" min.).



ELEVATION



END VIEW



DETAIL D

WELDED PLATE FIELD SPLICE

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1 1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

MODEL: 0710098-64H57-025
FILE NAME: p:\w\p\w\benley.com\FWIDOT\Documents\DOT Offices\Bureau of Bridges and Structures\Projects\0710098\CADD Plans\0710098-64H57.dgn

F-HP 1-1-2020

DESIGNED - NEPTALI RIVERA-MARTINEZ	EXAMINED
CHECKED - JOSUE ORTIZ-VARELA	PASSED
DRAWN - GLENN W. STOVER	
CHECKED - D.H.R. / T.L.M. / G.R.A.	

DATE - October 17, 2022

 JAYME F. JOFFE
 ENGINEER OF BRIDGES AND STRUCTURES

REVISIONS	
REVISION -	
REVISION -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PILE DETAILS
STRUCTURE NO. 071-0098

SHEET 25 OF 29 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	85
CONTRACT NO. 64H57				
ILLINOIS FED. AID PROJECT				

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Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 3

Division of Highways
Illinois Department of Transportation

ROUTE US 52 DESCRIPTION P92-029-12 Bridge, US 52, .5 m. S. of IL 64 over Elkhorn Creek LOGGED BY W. Garza

SECTION LOCATION Brookville Twp. - 27NW, SEC. , TWP. 24N, RNG. 7E.

COUNTY Ogle DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. 071-0070
Station _____

BORING NO. B-2
Station 972+57
Offset 6.0 ft Rt CL
Ground Surface Elev. 764.81 ft

DEPTH (ft)	BLOWS (/6")	UCS (tsf)	MOISTURE (%)
2	1.1		13
3			
4	0.8	19	
5			
6	1.0	22	
7			
8	1.3	30	
9			
10	1.2	28	
11			
12	1.1		
13			
14	0.9	27	
15			
16	0.7	35	
17			
18			
19			
20			

DEPTH (ft)	SOIL DESCRIPTION	DEPTH (ft)	BLOWS (/6")	UCS (tsf)	MOISTURE (%)
2	STIFF gray LOAM	2			
3		3			
4		4			
5		5			
6		6			
7		7			
8		8			
9		9			
10		10			
11		11			
12		12			
13		13			
14		14			
15		15			
16		16			
17		17			
18		18			
19		19			
20		20			

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)



Illinois Department of Transportation

SOIL BORING LOG

Page 2 of 3

Division of Highways
Illinois Department of Transportation

ROUTE US 52 DESCRIPTION P92-029-12 Bridge, US 52, .5 m. S. of IL 64 over Elkhorn Creek LOGGED BY W. Garza

SECTION LOCATION Brookville Twp. - 27NW, SEC. , TWP. 24N, RNG. 7E.

COUNTY Ogle DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. 071-0070
Station _____

BORING NO. B-2
Station 972+57
Offset 6.0 ft Rt CL
Ground Surface Elev. 764.81 ft

DEPTH (ft)	BLOWS (/6")	UCS (tsf)	MOISTURE (%)
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

DEPTH (ft)	SOIL DESCRIPTION	DEPTH (ft)	BLOWS (/6")	UCS (tsf)	MOISTURE (%)
9	MEDIUM tan fine SAND	9			
10		10			
11		11			
12		12			
13		13			
14		14			
15		15			
16		16			
17		17			
18		18			
19		19			
20		20			

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)



Illinois Department of Transportation

ROCK CORE LOG

Page 3 of 3

Division of Highways
Illinois Department of Transportation

ROUTE US 52 DESCRIPTION P92-029-12 Bridge, US 52, .5 m. S. of IL 64 over Elkhorn Creek LOGGED BY W. Garza

SECTION LOCATION Brookville Twp. - 27NW, SEC. , TWP. 24N, RNG. 7E.

COUNTY Ogle CORING METHOD _____

STRUCT. NO. 071-0070
Station _____

BORING NO. B-2
Station 972+57
Offset 6.0 ft Rt CL
Ground Surface Elev. 764.81 ft

DEPTH (ft)	CORING METHOD	RECOVERY (%)	QUALITY (%)	CORE DIAMETER (in)	STRENGTH (tsf)
1.81		1	40	0	1.6
55					
706.81		2	30	0	1.4
60					
701.81					
65					
70					

DEPTH (ft)	ROCK DESCRIPTION	DEPTH (ft)	RECOVERY (%)	QUALITY (%)	CORE DIAMETER (in)	STRENGTH (tsf)
1.81	Sandstone: tan-white, fine to medium grained, crumbly and soft, mostly washed out	1.81	1	40	0	1.6
55		55				
706.81	Sandstone: as above.	706.81	2	30	0	1.4
60		60				
701.81	End of Boring	701.81				
65		65				
70		70				

Color pictures of the cores _____
Cores will be stored for examination until _____
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
BBS, form 138 (Rev. 8-99)

MODEL: 0710098-64H57-027
FILE NAME: p:\w\p\w\benley.com\FWIDOT\Documents\DOT Offices\Bureau of Bridges and Structures\Projects\0710098\CADD Plans\0710098-64H57.dgn

DESIGNED -	NEPHTALI RIVERA-MARTINEZ
CHECKED -	JOSUE ORTIZ-VARELA
DRAWN -	GLENN W. STOVER
CHECKED -	D.H.R. / T.L.M. / G.R.A.

EXAMINED _____
PASSED _____
DATE - October 17, 2022

REVISOR OF BRIDGE DESIGN _____
ENGINEER OF BRIDGES AND STRUCTURES _____
REVISOR _____
REVISOR _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PILE DETAILS
STRUCTURE NO. 071-0098
SHEET 27 OF 29 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	87
CONTRACT NO. 64H57				
ILLINOIS FED. AID PROJECT				



Illinois Department of Transportation
Division of Highways
DOT

SOIL BORING LOG

Page 1 of 2

ROUTE FAS 2079 (US 52) DESCRIPTION P92-029-12 - Proposed bridge replacement (071-0098) over Elkhorn Creek, 0.5 mi S of IL 64 LOGGED BY W. Garza
SECTION 16 BR-1 LOCATION Brookville Twp. - 27NW, SEC., TWP. 24N, RNG. 7E
COUNTY Ogle DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-75 Automatic

STRUCT. NO. 071-0070 Latitude 42° 02' 52.76" Northing
Longitude -89° 40' 45.00" Easting

BORING NO. B-3 Station 24+24 Offset 6.00 ft RL CL Ground Surface Elev. 766.58 ft
Groundwater Elev.:
First Encounter 745.6 ft
Upon Completion Wash ft
After Hrs.

Description	Elev. (ft)	UCS Failure Mode			Penetration (lb/ft²)	SPT (blows)	Notes
		B	S	P			
12" Asphalt	765.58						MEDIUM gray SILTY LOAM with SAND LENS (continued)
MEDIUM brown SILTY CLAY LOAM	744.08	0.8	26.0				LOOSE gray DIRTY SAND
STIFF brown LOAM	763.08	1.5	15.0				MEDIUM tan/gray DIRTY MEDIUM GRAVEL
STIFF gray SILTY CLAY	761.58	1.8	23.0				LOOSE tan MEDIUM SAND
MEDIUM dark gray SILTY LOAM	759.06	0.9	33.0				DENSE tan MEDIUM SAND GRAVEL
STIFF gray CLAY LOAM	756.58	1.3	29.0				MEDIUM tan FINE SAND 8" Wash
SOFT gray SILTY LOAM	754.06	0.4	34.0				DENSE tan SANDY GRAVEL
VERY SOFT gray SILTY LOAM with SAND LENS	751.58	0.2	27.0				VERY STIFF gray SILTY CLAY
MEDIUM gray SILTY LOAM with SAND LENS	749.06	0.8	31.0				STIFF gray SILTY CLAY 8" Wash

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, from 137 (Rev. 0-99)



Illinois Department of Transportation
Division of Highways
DOT

SOIL BORING LOG

Page 2 of 2

ROUTE FAS 2079 (US 52) DESCRIPTION P92-029-12 - Proposed bridge replacement (071-0098) over Elkhorn Creek, 0.5 mi S of IL 64 LOGGED BY W. Garza
SECTION 16 BR-1 LOCATION Brookville Twp. - 27NW, SEC., TWP. 24N, RNG. 7E
COUNTY Ogle DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-75 Automatic

STRUCT. NO. 071-0070 Latitude 42° 02' 52.76" Northing
Longitude -89° 40' 45.00" Easting

BORING NO. B-3 Station 24+24 Offset 6.00 ft RL CL Ground Surface Elev. 766.58 ft
Groundwater Elev.:
First Encounter 745.6 ft
Upon Completion Wash ft
After Hrs.

Description	Elev. (ft)	UCS Failure Mode			Penetration (lb/ft²)	SPT (blows)	Notes
		B	S	P			
VERY STIFF gray CLAY LOAM	744.08	4	2.1	23.0			
STIFF gray CLAY LOAM with BOTTOM 4" SANDSTONE	721.58	5	1.7	29.0			
DENSE tan FINE SAND with GRAVEL	719.08	19	6	21			
VERY DENSE white SANDSTONE	716.58	22	100	for 10"			
VERY DENSE white SANDSTONE	714.08	100	for 7"				
VERY DENSE white SANDSTONE	711.58	100	for 4"				

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, from 137 (Rev. 8-99)

MODEL Path: H:\Projects\DOT\DOT_DIST\DOT 2_PFE_190-22_wd\06_CAD_Sheets\DOT2457-shb\sb06.dgn

The Upchurch Group
architects engineers surveyors
Professional Design Firm Corporation
123 North 15th Street
Mankato, IL 61308
Phone: 217.253.1177
License No. 156-003401
e-mail: upchurchgroup@upchurchgroup.com

USER NAME = Sta42
TUG PROJECT NO. 3119007-06
PLOT SCALE = 2,0000 ' / in.
PLOT DATE = 6/22/2022

DESIGNED - SJF
DRAWN -
CHECKED - SJF
DATE - JUNE 22, 2022

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 52 OVER ELKHORN CREEK
SOIL BORING LOGS

SCALE: 2,0000 ' / in. SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	90
CONTRACT NO. 64H57				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

INFORMATION ONLY

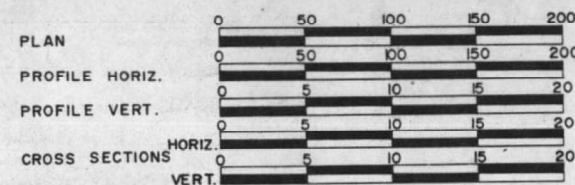
FA RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 2079	16-BR	OGLE	16	1
PROJECT NO.	ILLINOIS PROJECT NO. S-2079(102)			

P-92-061-78

INDEX OF SHEETS

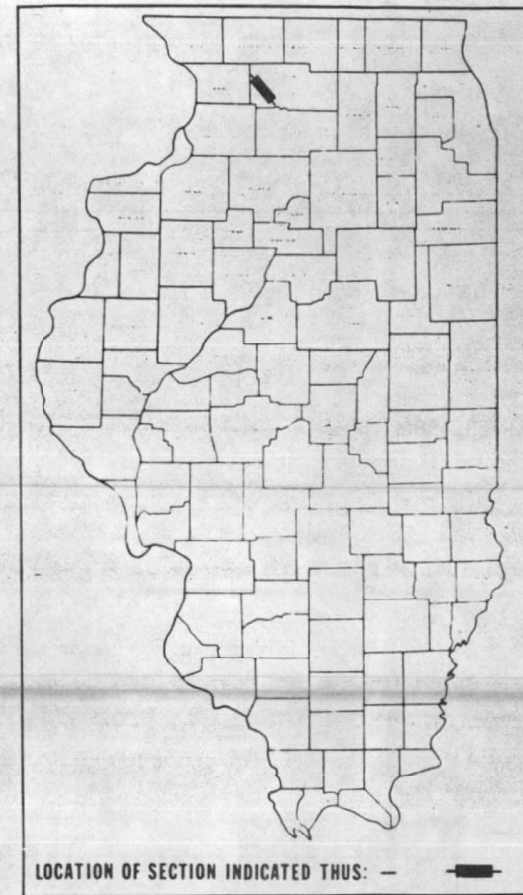
- 1 COVER SHEET
- 2 SUMMARY OF QUANTITIES
- 3 TYPICAL SECTIONS /GENERAL NOTES /ALIGNMENT & TIES
- 4 PLAN & PROFILE
- 5-12 BRIDGE PLANS SECTION 16-BR
- 13-15 CROSS SECTIONS
- 16 DETAILS

PLANS FOR PROPOSED
FEDERAL AID HIGHWAY



FAS 2079 SECTION 16-BR
PROJECT BR-S-2079(102)

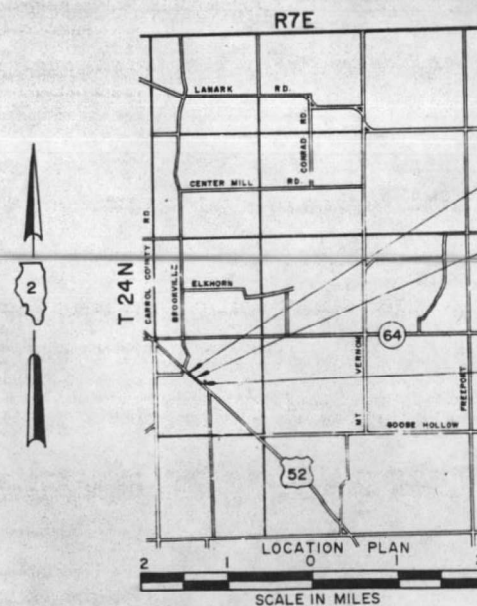
OGLE COUNTY
C-92-110-83



LOCATION OF SECTION INDICATED THUS: —

STANDARDS

- 1686-4 SYMBOLS AND ABBREVIATIONS
- 1744-4 RIGHT-OF-WAY MARKERS
- 2113-2 NAME PLATE FOR BRIDGES
- 2115 PERMANENT SURVEY MARKERS
- 2143-3 WIDTH TRANSITION
- 2149-11 DELINEATORS
- 2228-4 METAL END SECTION FOR PIPE CULVERTS
- 2230-13 STEEL PLATE BEAM GUARDRAIL
- 2298-6 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
- 2299-9 DESIGN OF TRAFFIC CONTROL DEVICES
- 2300-2 FLAGMAN TRAFFIC CONTROL SIGN
- 2307-5 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES, SHORT TIME OPERATION, DAY OR NIGHT.
- 2324-5 BRIDGE APPROACH SHOULDER PAVEMENT.
- 2336-2 TRAFFIC BARRIER TERMINAL, TYPE 1 AND TYPE 1A.
- 2341-1 TRAFFIC BARRIER TERMINAL, TYPE 6.
- 2350-2 METAL POSTS (SIGNS, MARKERS AND DELINEATORS)
- 2360-2 BRIDGE APPROACH PAVEMENT (50 FT.)
- 2581 TEMPORARY EROSION CONTROL SYSTEM.



PROJECT BEGINS
STA. 966+75.00

SECTION 16-BR
INCLUDES ONE TRIPLE SPAN PRECAST
PRESTRESSED CONCRETE DECK BEAM
STRUCTURE (CARRYING F.A.S. 2079 OVER
ELKHORN CREEK) ON PILE BENT PIERS
ABUTMENTS, SPANS 1 AT 42'-43.4", 1 AT
39'-9 1/2" AND 1 AT 42'-25/8" AT
STA. 971+50.04

PROJECT ENDS
STA. 977+10.00



DESIGN DESIGNATION: 115 (O1) COLLECTOR 0.22 (BIT-20)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED June 6 1983
Examined by Joseph C. Walker
PASSED 7-1 1983
APPROVED 7-1 1983
John R. Allen
District Engineer

NET LENGTH OF PROJECT 1035.00 FT. 0.196 MI.

FOR INFORMATION ONLY

2-137

071-0070

BROOKVILLE TWP.

CALL J.U.L.I.E. BEFORE YOU DIG 800-892-0123

CONTRACT NO. 36446

MODEL Paths, FILE NAME: P:\C\p\DOT-DIST\DOT 2 PTE. 100-22, variable PH 1 and 11 sub to BROWNO 6 US 52 over Elkhorn Creek. 3119007-06.CAD Sheet102(16)457-shs-F-1stStruct.dwg

The Upchurch Group
architects engineers surveyors
123 North 15th Street
Mankato, IL 61018
Phone: 317.253.1317
License No. 156-003401
email: upchurchgroup@upchurchgroup.com

USER NAME = Sta42	DESIGNED - SJF	REVISED -
TUG PROJECT NO. 3119007-06	DRAWN -	REVISED -
PLOT SCALE = 2,000' / in.	CHECKED - SJF	REVISED -
PLOT DATE = 6/22/2022	DATE - JUNE 22, 2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 52 OVER ELKHORN CREEK
EXISTING STRUCTURE

SCALE: 2,000' / in. SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	91
CONTRACT NO. 64H57				
ILLINOIS FED. AID PROJECT				

BENCHMARK: Chiseled 'X' in concrete headwall
 Station 961+15 ±, 25' R1
 Elevation: 765.24

INFORMATION ONLY

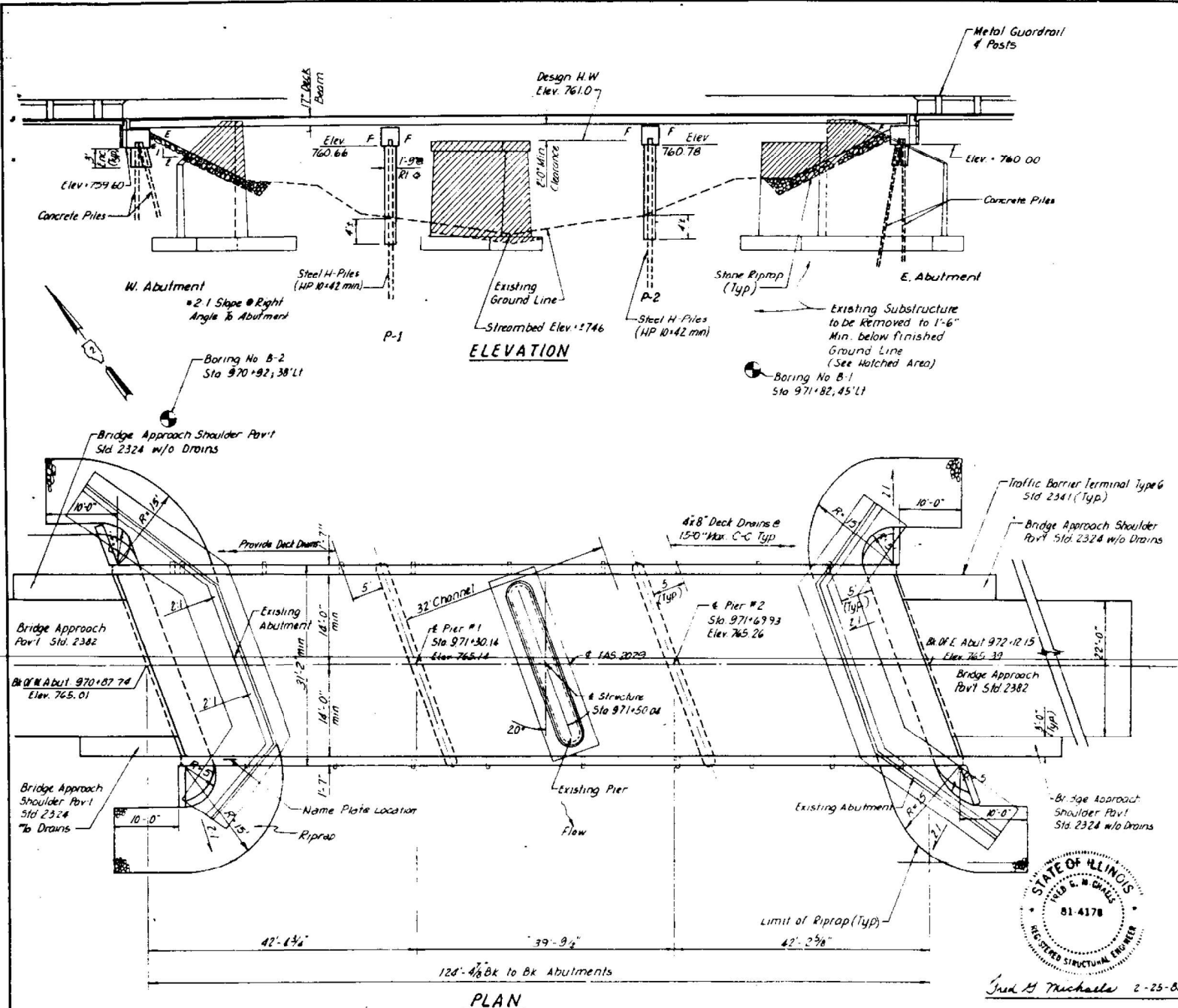
DATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 2079	16 BR	OGLE	130	92
STA. 970+87.74		TO STA. 972+12.15		

STATION 971+50.04
BUILT 198
F.A.S. RT. 2079 SEC. 16 BR
F.A. PROJ. BR-S-2079(102)
LOADING HS20
*** STR. NO.**

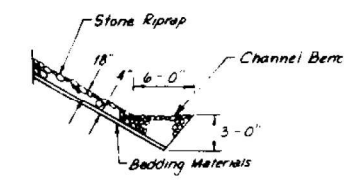
FOR INFORMATION ONLY

TOTAL BILL OF MATERIALS

ITEM	UNIT	SUPER	SUB	TOTAL
CLASS X CONCRETE	CU YD	30.0	128.6	158.6
REINFORCEMENT BARS	LBS	1460	7690	9150
REINFORCEMENT BARS (EPOXY COATED)	LBS	1460	-	1460
PRECAST PRESTRESSED DECK BEAMS (17" DEPTH)	SQ FT	3693	-	3693
WATERPROOFING MEMBRANE SYSTEM	SQ YD.	410	-	410
BITUMINOUS CONCRETE SURFACE COURSE, MIXTURE D, CLASS I	TON	49	-	49
NEOPRENE EXPANSION JOINT 2"	LIN FT	32	-	32
PORTLAND CEMENT MORTAR FAIRING COURSE	LIN FT	995	-	995
PROTECTIVE COAT	SQ YD	192	-	192
CONCRETE PILES	LIN FT	-	555	555
STEEL PILES HP 10#42	LIN FT	-	610	610
TEST PILE CONCRETE	EACH	-	1	1
TEST PILE STEEL HP 10#42	EACH	-	1	1
NAME PLATES	EACH	1	-	1
STONE RIPRAP	SQ YD.	-	215	215
REMOVAL OF EXISTING STRUCTURE	EACH	-	-	1
STRUCTURE EXCAVATION	CU YD	-	249	249
COFFERDAM	EACH	-	2	2
COFFERDAM EXCAVATION	CU YD	-	50	50



NAME PLATE
ILLINOIS STATE STANDARD 2113
 * Str. Number to be supplied by the District



DESIGN STRESSES

Reinforced Concrete
 F_c = 3,500 psi
 F_y = 60,000 psi (Reinf)

Deck Beams
 F_c = 5,000 psi
 F_c = 4,000 psi (36" Beams)
 F_c = 270,000 psi (12" strands)
 F_c = 183,000 psi (12" strands)

LOADING HS20-44

DESIGN SPECIFICATION: 1977 AASHTO:1978, 1979, 1980A181/INTERIM SPECIFICATIONS.
 ALLOW 25#/SQ FT FOR FUTURE WEARING SURFACE

NOTES

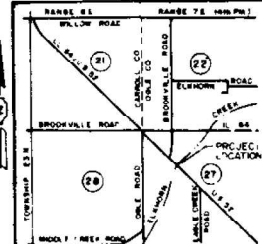
- Existing Bridge Data
- See proposal for Boring Data.
- A Calcium Nitrite Corrosion Inhibitor, As Covered in the Special Provisions, shall be used in the concrete for Precast Prestressed Concrete Deck Beams
- The Top Surface of the Beams shall be finished in accordance with Article 50506 of the Standard Specification except that the surface shall not be roughened by brooming. The finished surface shall be free of depressions or high spots with sharp corners, and the top edge of keys shall be rounded or chamfered a minimum of 1/4"
- Reinforcement Bars shall conform to the requirements of AASHTO M-31 or M-53 Grade 60
- Protective Coat shall not be applied to surfaces to which Waterproofing Membrane System is applied
- The Contractor shall drive one (1) Steel HP 10#42 Test Pile and one (1) Concrete Test Pile in a Permanent Location of Pier 1 and the West Abutment, respectively, As Directed by the Engineer before ordering the remainder of Piles

WATERWAY INFORMATION

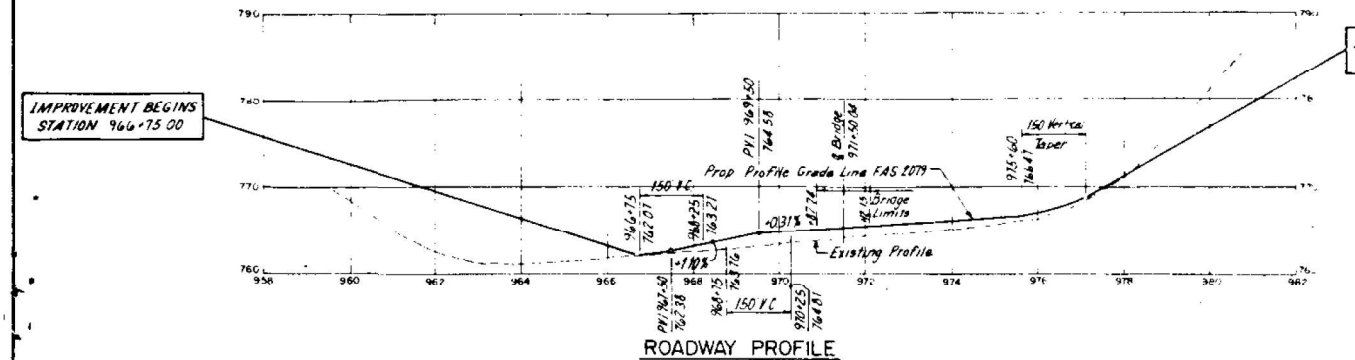
Drainage Area = 47.53 sq mi Low Grade Elev = 761.74 (Exist) / 762.96 (Prop) @ Sta 964+03.03

	Flood	Freq yr	Q CFS	Opening Sq Ft		Head-Ft		Headwater El	
				Exist	Prop	Exist	Prop	Exist	Prop
Design	30	5480	660	882	761.0	2.40	1.26	763.4	762.26
Base	100	7070	660	939	761.6	2.34	1.91	763.94	763.51
Overtopping	80	6735	660	921	761.4	1.81		763.21	
Max Colc	500								

LOCATION SKETCH



DEPARTMENT OF TRANSPORTATION
 OGLE COUNTY
 F.A.S. RTE. 2079 (U.S. 52)
 SECTION 16-BR
 STATION 971+50.04
GENERAL PLAN & ELEVATION
 DATE: 11-1-82
 CHECKED BY: PGM



The Upchurch Group
 architects engineers surveyors
 123 North 150 Street
 Maitland, FL 32751
 Phone: 317.253.1317
 License No. 154-001401
 e-mail: upchurchgroup@upchurchgroup.com

USER NAME	DESIGNED	REVISIONS
= Sta42	- SJF	-
TUG PROJECT NO. 3119007-06	DRAWN	REVISIONS
PLOT SCALE = 2,000' / in.	CHECKED - SJF	REVISIONS
PLOT DATE = 6/22/2022	DATE - JUNE 22, 2022	REVISIONS

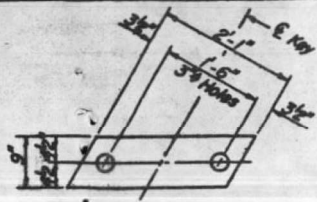
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

US ROUTE 52 OVER ELKHORN CREEK
 EXISTING STRUCTURE
 SCALE: 2,000' / in. SHEET OF SHEETS STA. TO STA.

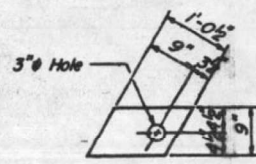
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	92
ILLINOIS				FED. AID PROJECT

FOR INFORMATION ONLY

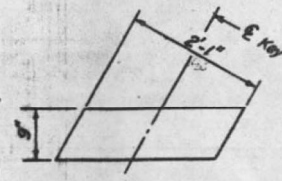
DESIGN NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
16BR	08LE	16	7	7
PROJECT: [REDACTED]				



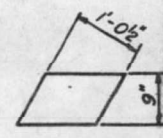
FABRIC BEARING PAD
(Interior)



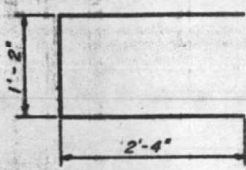
FABRIC BEARING PAD
(Exterior)



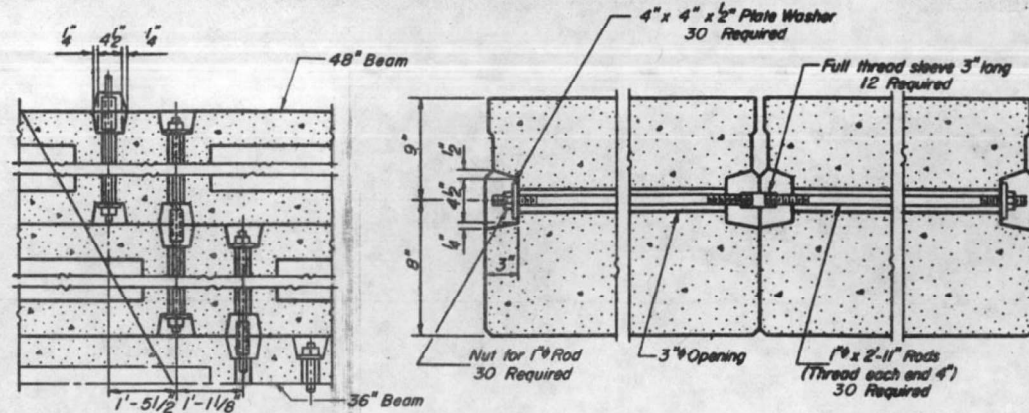
GRAPHITED ASBESTOS BEARING PAD
(Interior)



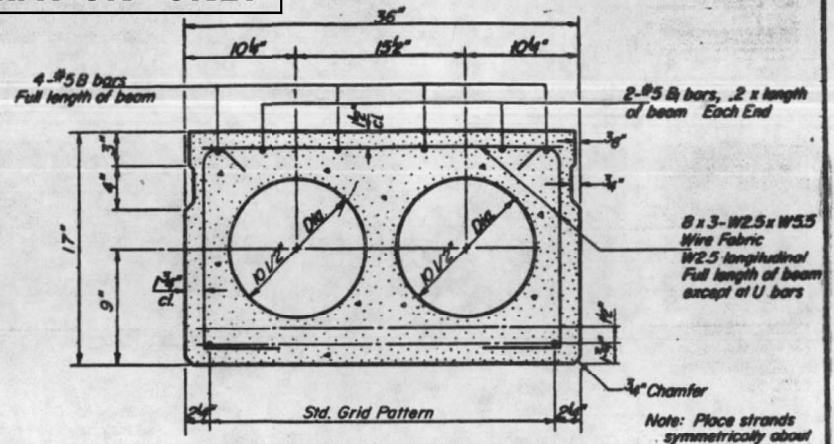
GRAPHITED ASBESTOS BEARING PAD
(Exterior)



U1 BAR

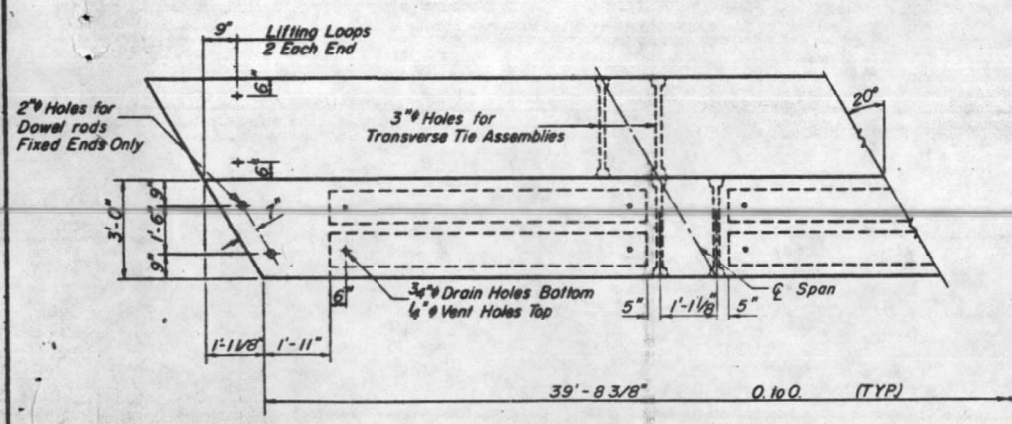


TYPICAL TRANSVERSE TIE ASSEMBLY

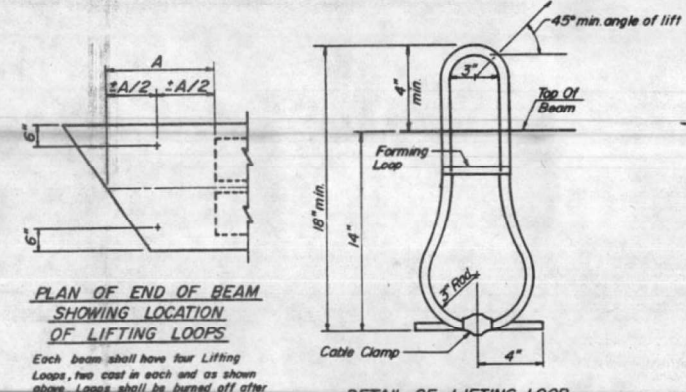


TYPICAL SECTION THRU 17" x 48" BEAM

1/2" Strands, Each Strand Stressed to 26,900 Lbs.
10-Strands 1-3/4" up, 3-Strands 3/4" up, 2-Strands 1/2" up



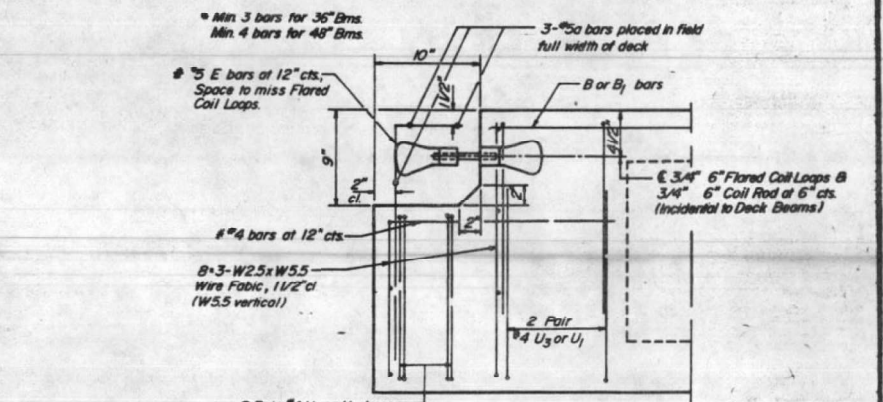
PLAN



PLAN OF END OF BEAM SHOWING LOCATION OF LIFTING LOOPS

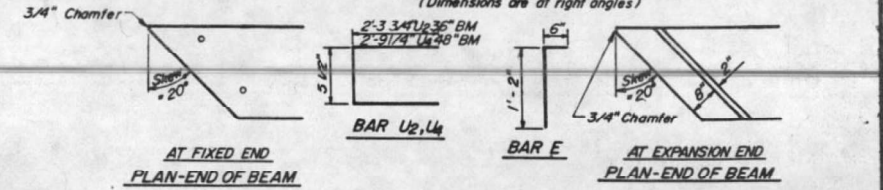
Each beam shall have four Lifting Loops, two cast in each end as shown above. Loops shall be burned off after beams have been erected.

LIFTING LOOP ALTERNATE (2)



END OF BEAM (EXP. END)

(Dimensions are at right angles)



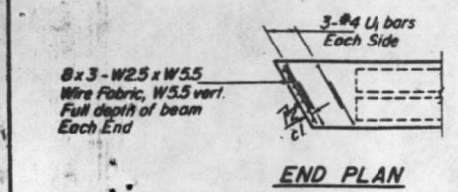
NOTE: Transverse tie rods are not required at block-out end of beams.

BILL OF MATERIAL

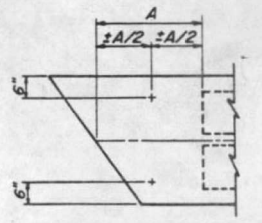
Bar	No.	Size	Length	Shape
a	3	#5	32'-8"	
Precast Prestressed Concrete Deck Beams				
			Sq. Ft.	1787
Class X Concrete				
			Cu. Yd.	0.8
Reinforcement Bars				
			Lbs.	100

NOTES

Prestressing steel shall be non-galvanized high strength, stress-relieved 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. Lifting loops shall be 1/2" diameter, 6 x 25 class wire rope with fiber core and shall have a minimum ultimate tensile strength of 21,000 lbs. or 2-1/2" - 270 ksi strands. The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets that receive transverse tie bar on outside shall be filled with grout after transverse tie assembly is in place. Reinforcement bars shall conform to AASHTO M-31 or M-53, Grade 60. The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing. Two 1/8" fabric adjusting shims of the dimensions of the Exterior Bearing Pad shall be provided for each bearing. Keyway surface shall be cleaned to remove form oil or other bond breaking material prior to shipment of the beams. Cleaning shall be done by sandblasting the keyway areas between top of the beam and the bottom edge of the key.

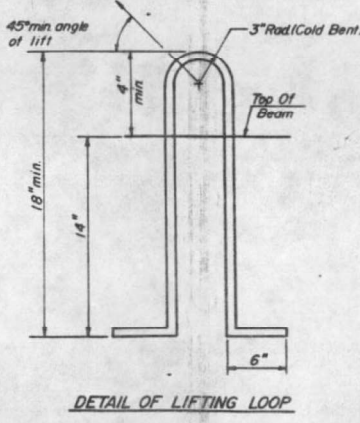


END PLAN



PLAN OF END OF BEAM SHOWING LOCATION OF LIFTING LOOPS

Each beam shall have four Lifting Loops, two cast in each end as shown above. Loops shall be burned off after beams have been erected.



DETAIL OF LIFTING LOOP

DESIGNED	
CHECKED	
DRAWN	
CHECKED	

PD-3-R 6-15-80

MODEL Path: C:\Users\puc\OneDrive\Documents\DOT_DIST\DOT_2_PTE_190-22_wdtable PH 1 and II sub to BRVWVO 6 US 52 over Elkhorn Creek 3119007206.CAD Sheets\02\418575-Sub-ElkhornStructure.dwg

The Upchurch Group
architects engineers surveyors
Professional Design Firm Corporation
123 North 15th Street
Mankato, IL 61318
Phone: 317.253.1377
License No. 156261401
email: upchurchgroup@upchurchgroup.com

USER NAME	= Sla42	DESIGNED	- SJF	REVISED	-
TUG PROJECT NO.	3119007-06	DRAWN	-	REVISED	-
PLOT SCALE	= 2,000' / in.	CHECKED	- SJF	REVISED	-
PLOT DATE	= 6/22/2022	DATE	- JUNE 22, 2022	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 52 OVER ELKHORN CREEK
EXISTING STRUCTURE

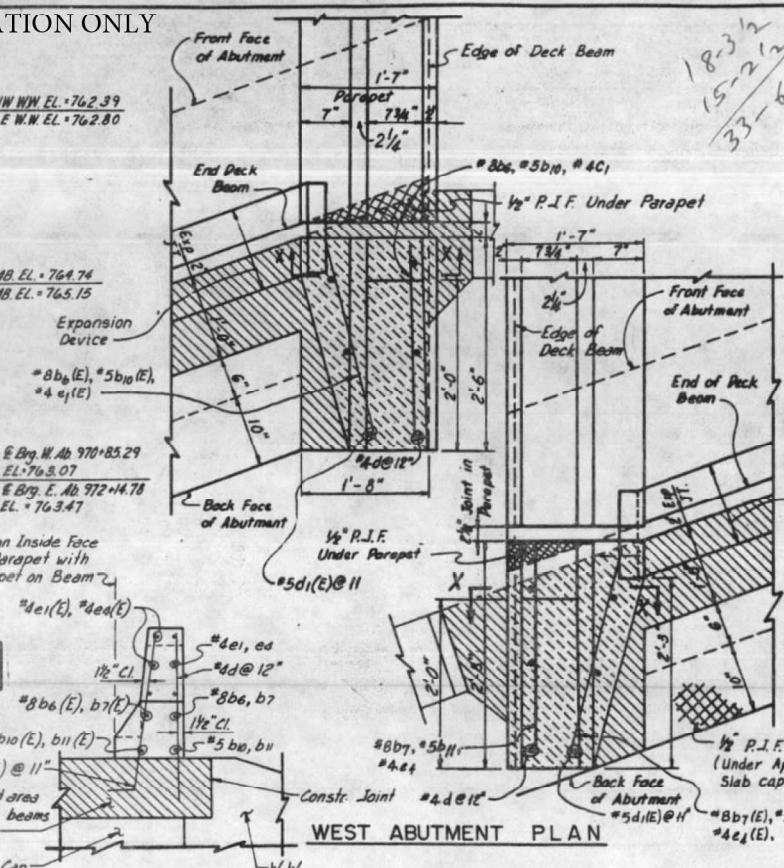
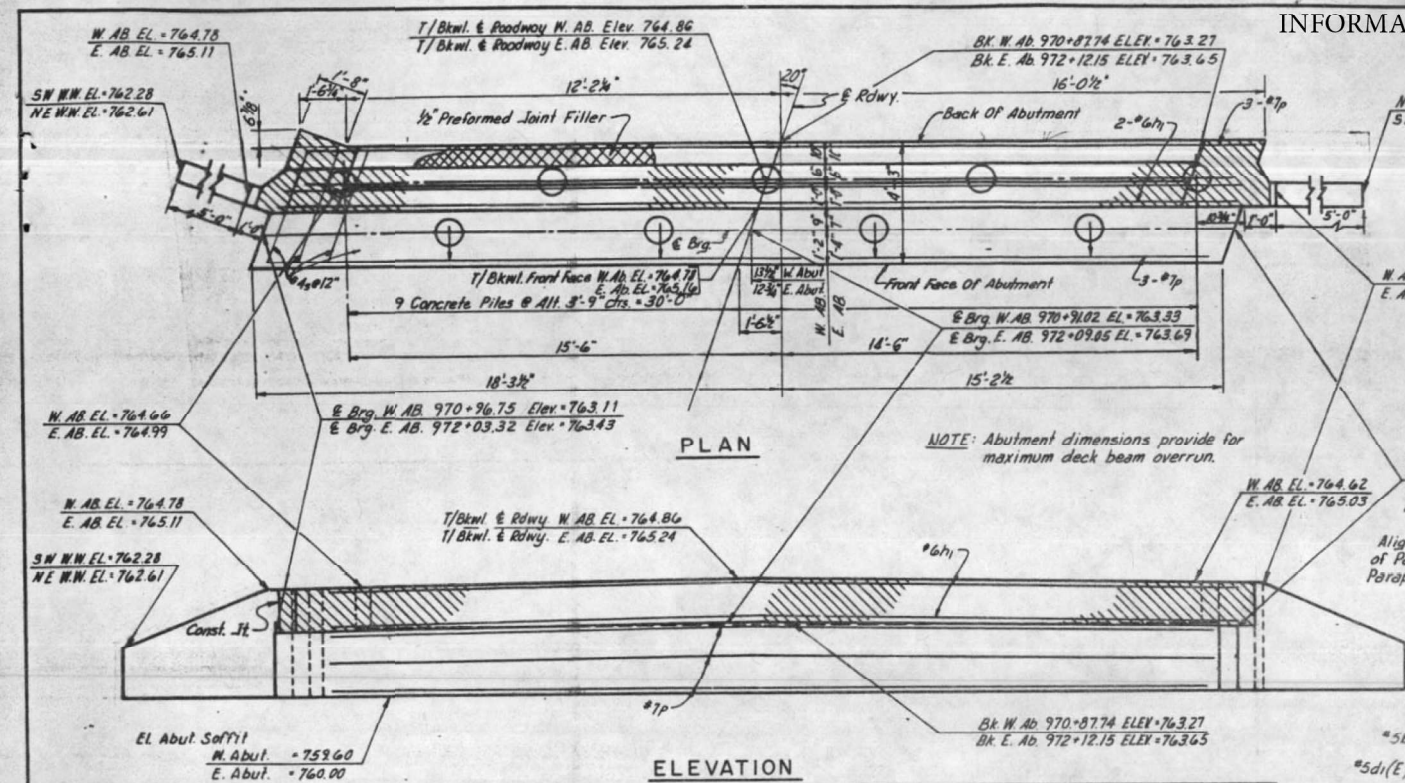
SCALE: 2.0000' / in. SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	94
CONTRACT NO. 64H57				
ILLINOIS FED. AID PROJECT				

DEPARTMENT OF TRANSPORTATION
OGLE COUNTY
F.A.S. RTE. 2079 (U.S.52)
SECTION 16-BR
STATION 971+50.04
SUPERSTRUCTURE DETAILS
DATE: 11-11-82
CHECKED: F.G.M.

INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 5
F.A.S. 2079	16BR	OGLE	16	9	8 SHEETS
ILLINOIS PROJECT					



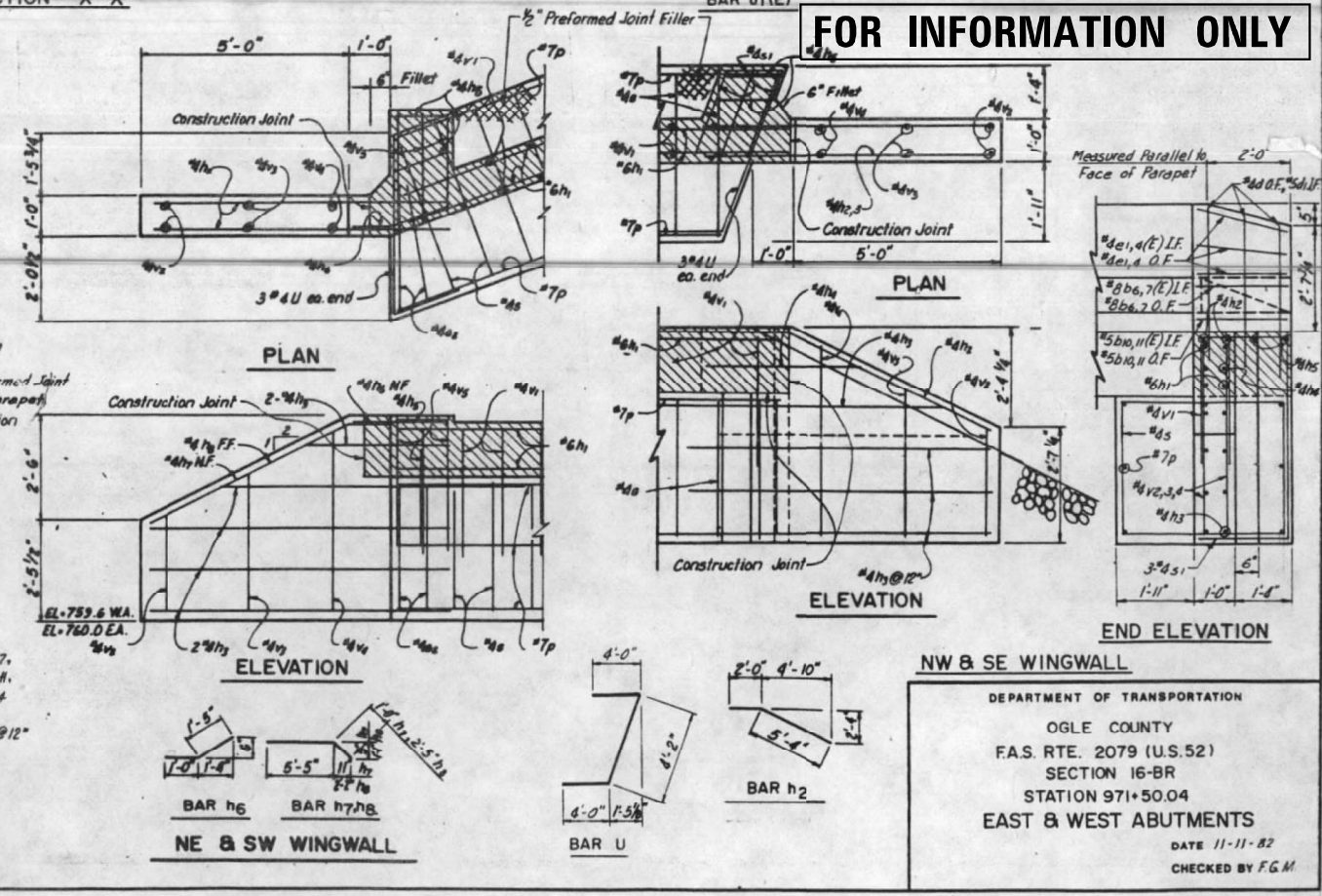
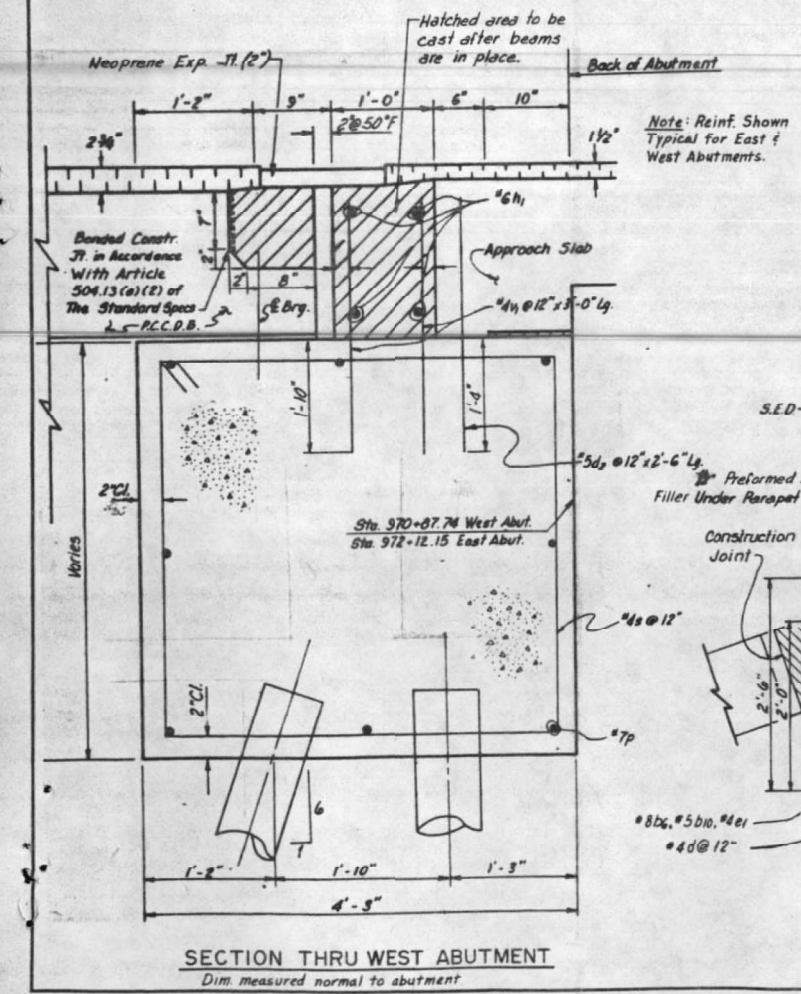
BAR LIST					ABUTMENTS	
BAR	NO.	SIZE	LENGTH	SHAPE		
b ₂	60	#5	2'-6"			
h ₁	8	#6	25'-8"			
h ₂	8	#4	1'-3"			
p	16	#7	33'-0"			
s	62	#4	14'-11"			
s ₁	6	#4	8'-8"			
s ₂	4	#4	9'-2"			
u	6	#4	5'-0"			
u	12	#4	12'-2"			

BAR LIST					WINGWALLS	
BAR	NO.	SIZE	LENGTH	SHAPE		
h ₂	4	#4	7'-4"			
h ₂	32	#4	7'-3"			
h ₂	4	#4	3'-10"			
h ₂	2	#4	2'-5"			
h ₇	2	#4	6'-5"			
h ₈	2	#4	7'-10"			
v ₂	8	#4	2'-4"			
v ₃	8	#4	3'-3"			
v ₄	8	#4	4'-2"			

BAR LIST					PARAPETS	
BAR	NO.	SIZE	LENGTH	SHAPE		
b ₆	2	#8	2'-2"			
b ₇ (E)	2	#8	2'-2"			
b ₇	2	#8	2'-4"			
b ₁₀	2	#5	2'-2"			
b ₁₀ (E)	2	#5	2'-2"			
b ₁₁	2	#5	2'-4"			
b ₁₁ (E)	2	#5	2'-4"			
e ₁	6	#4	2'-2"			
e ₁ (E)	6	#4	2'-2"			
e ₄	6	#4	2'-4"			
e ₄ (E)	6	#4	2'-4"			
d	12	#4	3'-8"			
d ₁ (E)	12	#5	4'-3"			

LOCATION	* TYPE	PILE DATA	CAPACITY	EST. LENGTH	NO. REQ'D
E ABUT	CONCRETE		35 TONS	35'	9
W ABUT	CONCRETE		35 TONS	30'	**9

BILL OF MATERIALS		EAST & WEST ABUTMENTS	
ITEM	UNIT	QTY.	
CLASS X CONCRETE	C.Y.	42.4	
REINFORCEMENTS BARS	LBS.	3040	
REINF. BARS EPOXY COATED	LBS.	100	
CONCRETE PILES	LF.	555	
TEST PILE (CONCRETE)	EACH	1	



FOR INFORMATION ONLY

DEPARTMENT OF TRANSPORTATION
 OGLE COUNTY
 F.A.S. RTE. 2079 (U.S. 52)
 SECTION 16-BR
 STATION 971+50.04
 EAST & WEST ABUTMENTS
 DATE 11-11-82
 CHECKED BY F.G.M.

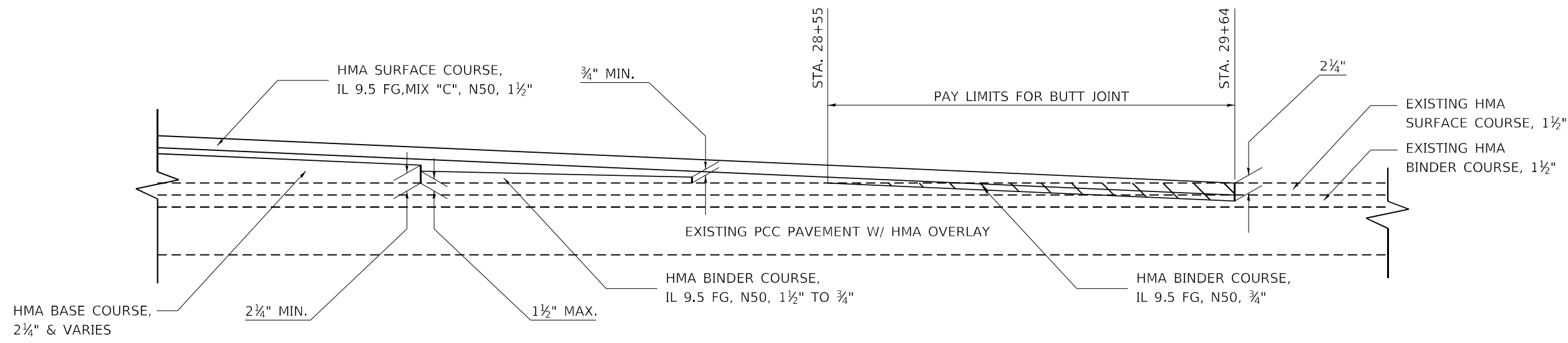
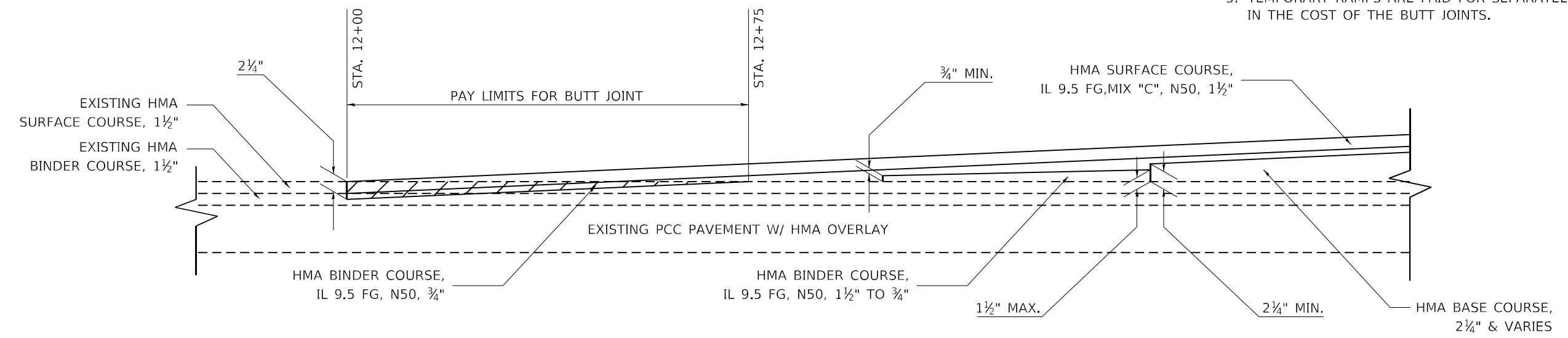


TABLE A

ELEMENT	TAPER RATES
TEMPORARY RAMP	1:40
TAPER RATE	

GENERAL NOTES

1. THE WORK SHALL BE DONE IN ACCORDANCE WITH ARTICLE 406.08 AND THE SPECIAL PROVISION FOR BUTT JOINTS.
2. THE PAVEMENT SURFACE TO BE REMOVED MAY BE EITHER BITUMINOUS OR P.C. CONCRETE. THE WORK SHALL BE PERFORMED IN ACCORDANCE WITH ARTICLE 440.04 AND THE SPECIAL PROVISIONS FOR BUTT JOINTS.
3. THE SAW CUT JOINTS SHALL BE PRIMED JUST PRIOR TO THE PLACING OF BITUMINOUS MATERIAL. THE WORK WILL BE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF ARTICLE 406.05.
4. THE AREA TO BE REMOVED SHALL BE MILLED TO MATCH EXISTING CROSS SLOPES.
5. TEMPORARY RAMPS ARE PAID FOR SEPARATELY AND NOT INCLUDED IN THE COST OF THE BUTT JOINTS.



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

MODEL Path: \\...
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 sub to: BFW\VO 6 US 52 over Elkhorn Creek 3119007-06\CAD Sheets\2024\1687-2\hst-ctrcd-0061.dwg

The Upchurch Group
 architects engineers surveyors
 123 North 150 Street
 Maitland, FL 32751
 Phone: 317.253.1177
 License No. 184-003401
 email: upchurchgroup@upchurchgroup.com

USER NAME = Sta42	DESIGNED - SJF	REVISED -
TUG PROJECT NO. 3119007-06	DRAWN -	REVISED -
PLOT SCALE = 100,0000 ' / in.	CHECKED - SJF	REVISED -
PLOT DATE = 6/22/2022	DATE - JUNE 22, 2022	REVISED -

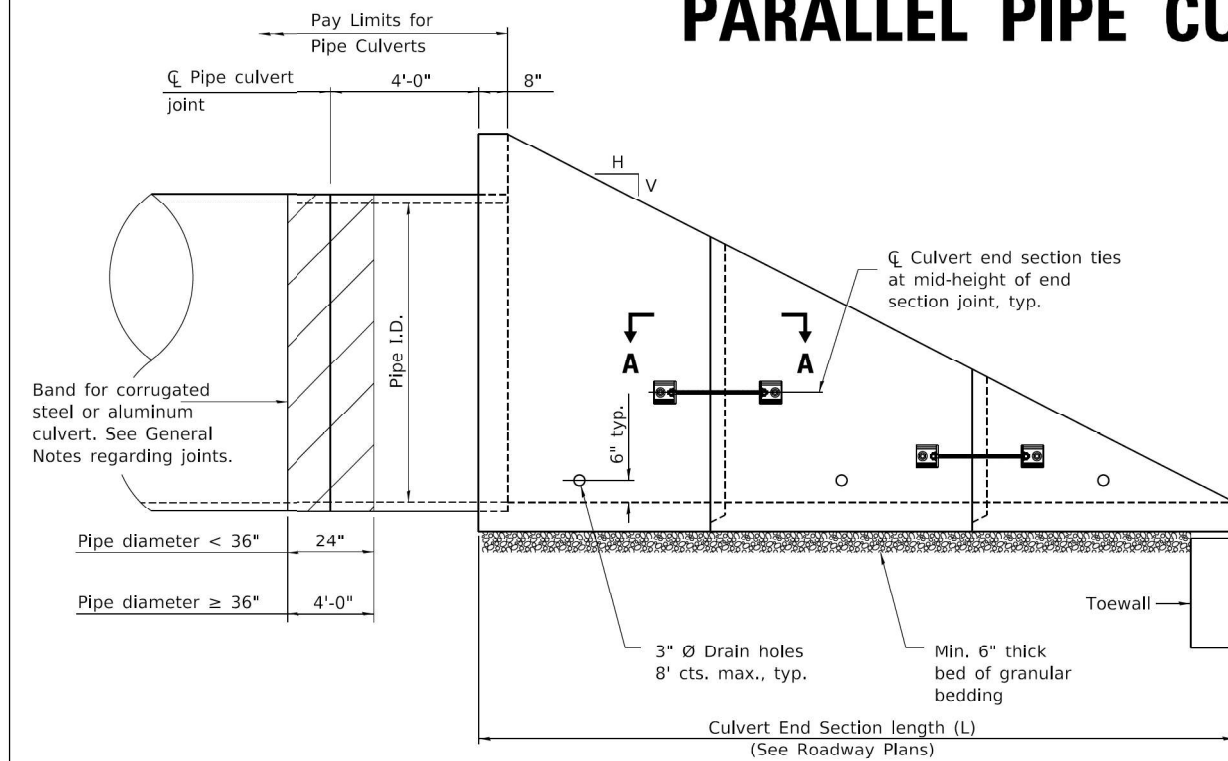
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 52 OVER ELKHORN CREEK
BUTT JOINT

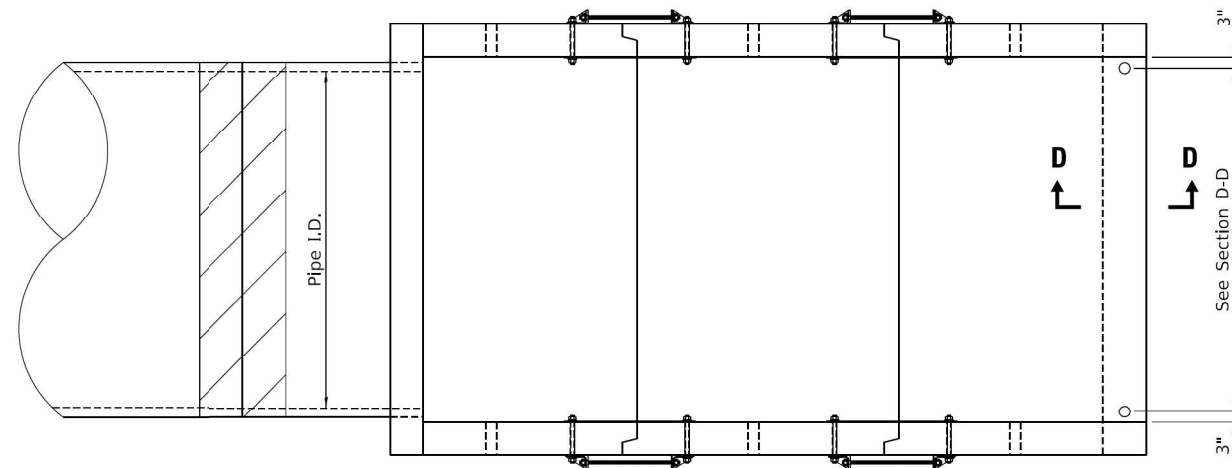
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 64H57				
ILLINOIS FED. AID PROJECT				

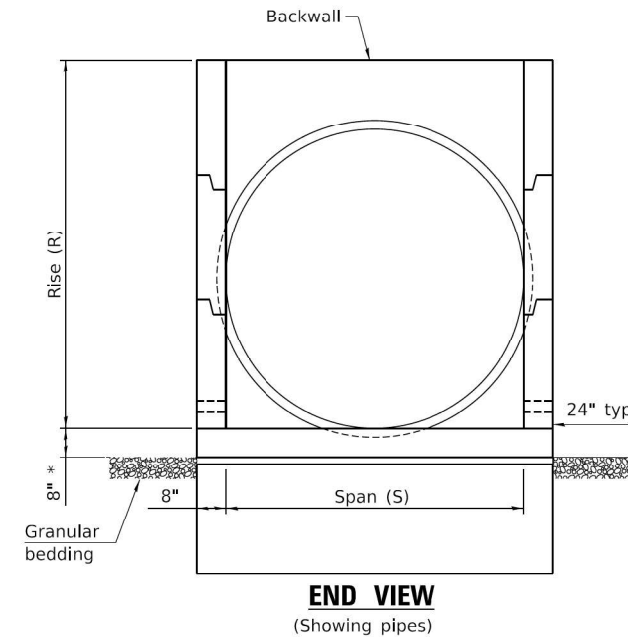
CONCRETE END SECTIONS FOR PARALLEL PIPE CULVERTS 15" THRU 84" DIA.



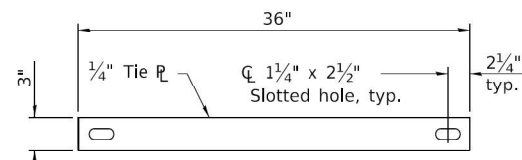
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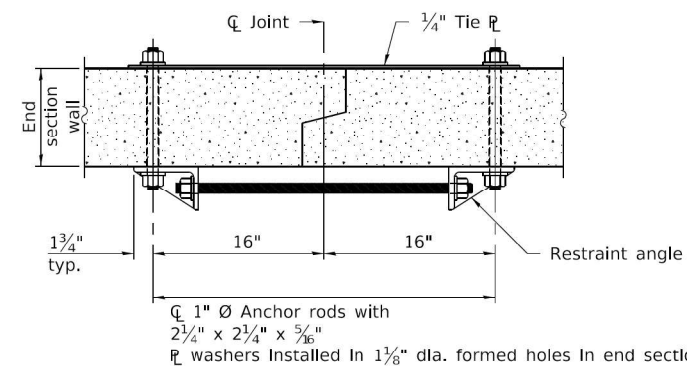
PLAN



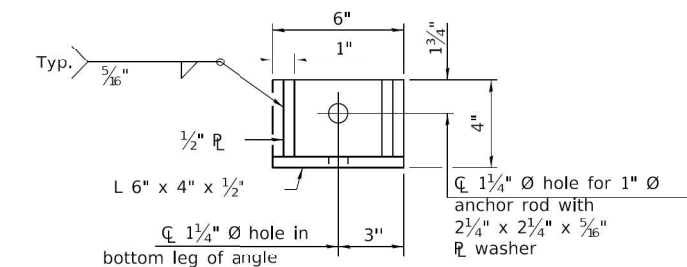
* This dimension shall be increased by 1" for CIP field construction. See General Notes.



TIE PLATE DETAIL



**SECTION A-A
(Showing end section tie details)**



RESTRAINT ANGLE DETAIL

GENERAL NOTES

The concrete end sections detailed herein for flexible type pipe culverts are restricted to use with parallel type drainage structures only and traversable pipe grating placed perpendicular to the sidewalls. When traversable pipe grating placed parallel to the sidewalls is required, use standard 542001 or 542011.

A segment of pipe culvert shall be cast into the backwall of the concrete end section such that a minimum of 4 ft of pipe culvert extends from the back face of the end section as shown in Elevation.

Segments of pipe culvert shall be joined in accordance with Article 542 of the Standard Specifications except bands for corrugated steel or aluminum culverts shall conform to the length requirements shown in elevation and have the same corrugations as the culvert pipe. These bands will be included in cost of the pipe.

The number of segments shown in elevation is for example only. The length and number of precast sections required to construct the end section shall be determined by the Contractor.

See roadway plans for slope (V:H) and pipe inside diameter.

2 1/4" x 2 1/4" x 5/16" plate washers shall be provided under each nut required for the anchor rods. Holes in the walls for the culvert tie assembly may be drilled using core bits in lieu of formed holes.

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

All dimensions are in inches unless otherwise shown.

FILE NAME: District 2 Standard	USER NAME = IDOT/District 2	DESIGNED -	REVISED - 1-05-16
	PLCT SCALE = 1,000' / in.	DRAWN -	REVISED - 5-09-14
	PLCT DATE = 1/11/2022	CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REGION 2 / DISTRICT 2 STANDARD

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

CONCRETE END SECTIONS FOR PARALLEL PIPE CULVERTS 15" THRU 84" DIA. SHEET 1 OF 3 11.1

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architects engineers surveyors
Professional Design Firm Corporation
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Marengo, IL 61758
Phone: 317.253.1377
License No. 156-003401
e-mail: upchurchgroup@upchurchgroup.com

USER NAME = Sta42	DESIGNED - SJF	REVISED -
TUG PROJECT NO. 3119007-06	DRAWN -	REVISED -
PLOT SCALE = 2,000' / in.	CHECKED - SJF	REVISED -
PLOT DATE = 6/22/2022	DATE - JUNE 22, 2022	REVISED -

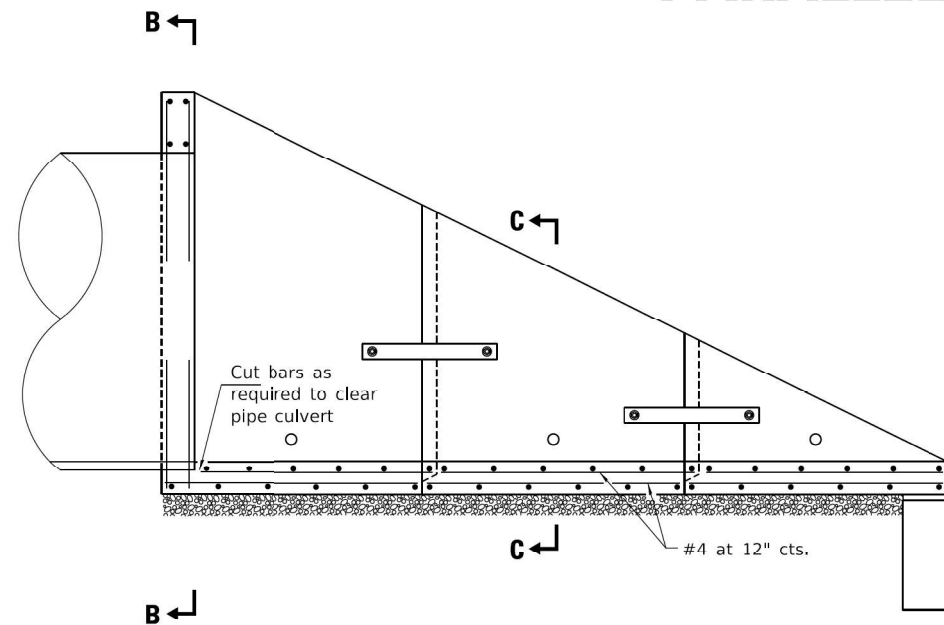
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REGION 2 / DISTRICT 2 STANDARD

SCALE: 2,000' / in.	SHEET	OF	SHEETS	STA.	TO	STA.	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO. 64H57											
ILLINOIS FED. AID PROJECT											

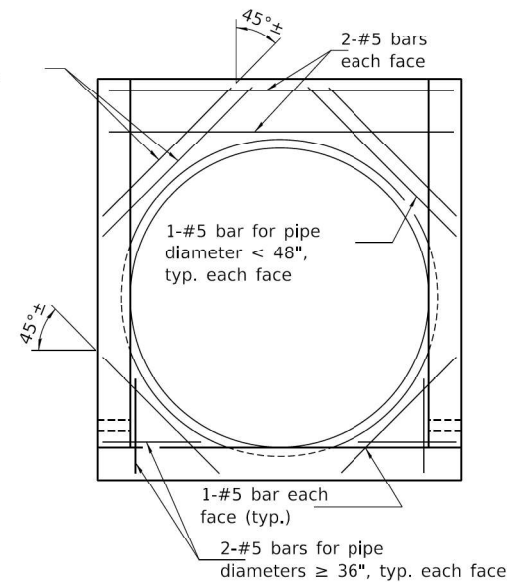
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CONCRETE END SECTIONS FOR PARALLEL PIPE CULVERTS 15" THRU 84" DIA.



LONGITUDINAL SECTION
(Showing bottom slab and backwall reinforcement.)

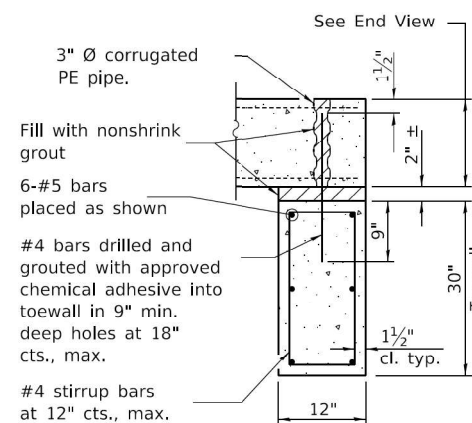
2-#5 bars at 6" cts. for pipe diameter \geq 48", typ. each face



SECTION B-B
(Showing backwall reinforcement for pipes.)

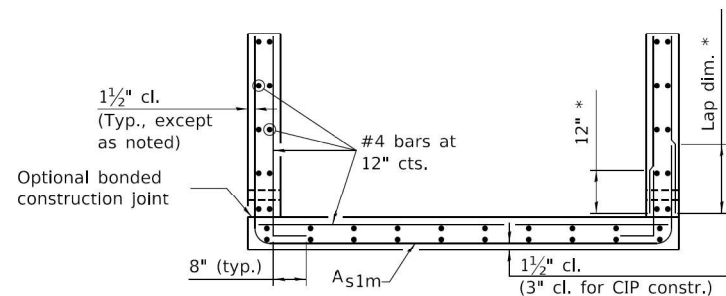
LAP DIMENSION

- #4 bar = 17"
- #5 bar = 21"
- #6 bar = 25"



SECTION D-D

* The Contractor may use lap splices for the sidewall reinforcement at the locations shown.



SECTION C-C

PARALLEL PIPE CULVERT END SECTION DIMENSIONS

Pipe I.D.	Tables IB, IC, IIIA, AND IIIB				
	R	S	L		
			Slope of End Section		
			1:4	1:6	1:10
15"	25"	16"	9'-0"	13'-2"	21'-6"
18"	28"	18"	10'-0"	14'-8"	24'-0"
21"	31"	22"	11'-0"	16'-2"	26'-6"
24"	35"	24"	12'-4"	18'-2"	29'-10"
30"	3'-5"	30"	14'-4"	21'-2"	34'-10"
36"	3'-11"	36"	16'-4"	24'-2"	39'-10"
42"	4'-5"	3'-6"	18'-4"	27'-2"	44'-10"
48"	5'-0"	4'-0"	20'-8"	30'-8"	50'-8"
54"	5'-4"	4'-6"	22'-0"	32'-8"	54'-0"
60"	5'-10"	5'-0"	24'-0"	35'-8"	59'-0"
66"	6'-4"	5'-6"	26'-0"	38'-8"	64'-0"
72"	6'-10"	6'-0"	28'-0"	41'-8"	69'-0"
78"	7'-4"	6'-6"	30'-0"	44'-8"	74'-0"
84"	7'-10"	7'-0"	32'-0"	47'-8"	79'-0"

The above "Tables" are referenced from Article 542.03 of the Standard Specifications.

REINFORCEMENT SCHEDULE

Pipe I.D.	PIPES	
	A _s 1m	
	Bar Size	Bar Spacing
15"	#4	12"
18"	#4	12"
21"	#4	12"
24"	#4	12"
30"	#4	12"
36"	#4	12"
42"	#4	12"
48"	#4	8"
54"	#4	8"
60"	#5	8"
66"	#5	8"
72"	#5	8"
78"	#5	8"
84"	#6	8"

FILE NAME: District 2 Standard	USER NAME = IDOT/District 2	DESIGNED -	REVISED - 1-05-16
	PLCT SCALE = 1.0000' / in.	DRAWN -	REVISED - 5-09-14
	PLCT DATE = 1/11/2022	CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		REGION 2 / DISTRICT 2 STANDARD		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		SCALE:	SHEET 2 OF 3 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		
				CONTRACT NO.				

CONCRETE END SECTIONS FOR PARALLEL PIPE CULVERTS 15" THRU 84" DIA. SHEET 2 OF 3 11.1

The Upchurch Group architects engineers surveyors Professional Design Firm Corporation 123 North 150 Street Maitland, FL 32751 Phone: 212.253.1177 License No. 156-001401 e-mail: upchurchgroup@upchurchgroup.com	USER NAME = Sta42	DESIGNED - SJF	REVISED -
	TUG PROJECT NO. 3119007-06	DRAWN -	REVISED -
	PLOT SCALE = 2.0000' / in.	CHECKED - SJF	REVISED -
	PLOT DATE = 6/22/2022	DATE - JUNE 22, 2022	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		REGION 2 / DISTRICT 2 STANDARD		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		SCALE: 2.0000' / in.	SHEET OF SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		
				CONTRACT NO. 64H57				

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 3119007-06...
 3119007-06...
 Sheet: 02 of 03...
 Standard: Full...

CONCRETE END SECTIONS FOR PARALLEL PIPE CULVERTS 15" THRU 84" DIA.

QUANTITIES

Pipe I.D.	Tables IB, IC, IIIA, AND IIIB								
	Concrete yd ³			Reinforcement without Lap lbs.			Reinforcement with Lap lbs.		
	Slope of End Section			Slope of End Section			Slope of End Section		
	1:4	1:6	1:10	1:4	1:6	1:10	1:4	1:6	1:10
15"	1.4	1.9	2.8	250	330	510	270	350	540
18"	1.6	2.2	3.4	290	400	600	310	420	640
21"	2.0	2.7	4.2	330	450	690	360	480	740
24"	2.3	3.2	5.0	370	510	790	400	550	850
30"	3.1	4.3	6.7	490	680	1060	520	720	1130
36"	3.9	5.5	8.7	580	810	1270	620	870	1360
42"	4.9	6.9	10.9	720	1020	1610	770	1080	1710
48"	6.0	8.6	13.7	940	1320	2090	1010	1420	2240
54"	6.9	9.8	15.7	1090	1540	2440	1160	1650	2610
60"	8.1	11.6	18.6	1410	2000	3190	1530	2180	3480
66"	9.5	13.6	21.8	1650	2360	3780	1780	2560	4100
72"	10.9	15.7	25.2	1840	2630	4220	1990	2850	4580
78"	12.4	17.9	28.9	2110	3040	4900	2280	3280	5290
84"	14.1	20.3	32.8	2710	3910	6320	2970	4290	6950

The above quantities are estimates and provided for information only. Actual quantities may vary depending upon the final layout of reinforcement and number of segments determined by the Contractor.

For cast-in-place construction, increase concrete volumes by approximately 12%.

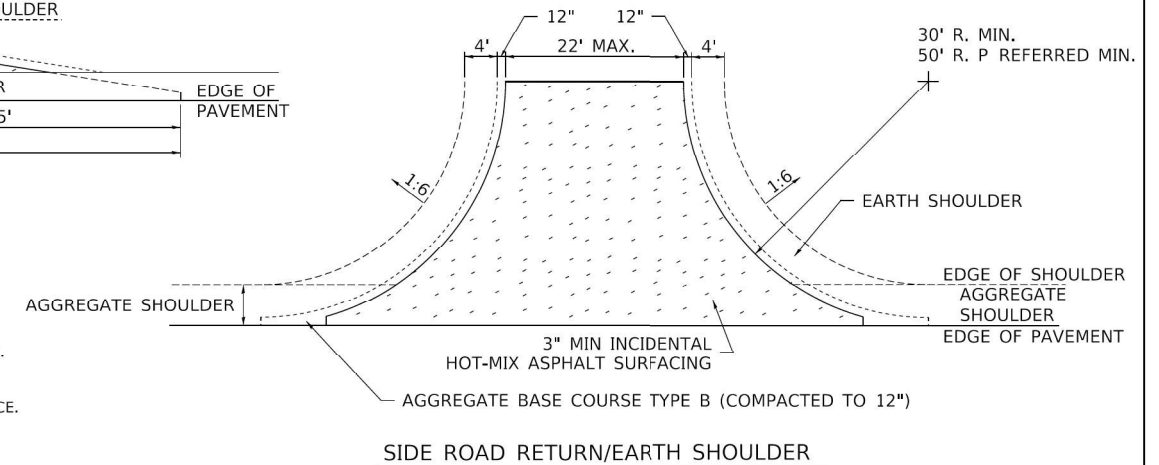
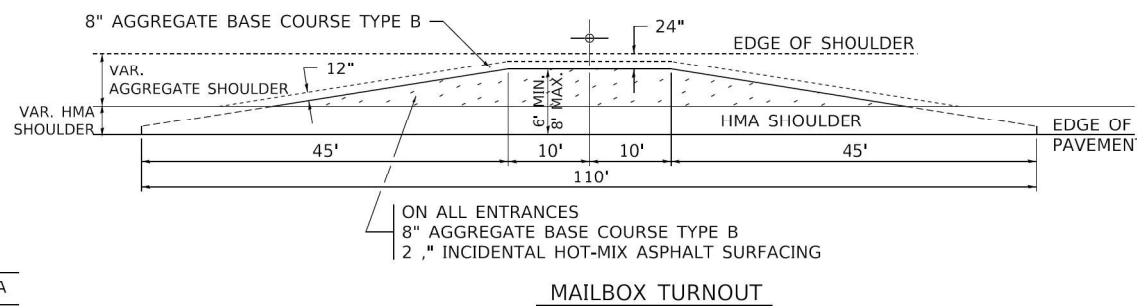
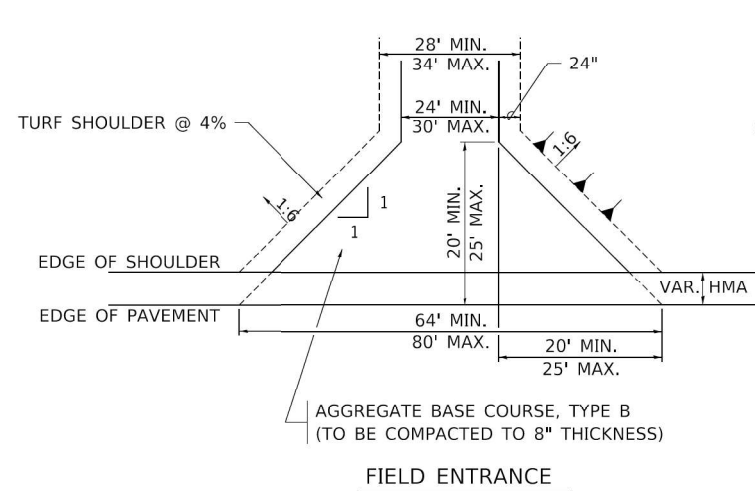
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										ILLINOIS FED. AID PROJECT

CONCRETE END SECTIONS FOR PARALLEL PIPE CULVERTS 15" THRU 84" DIA. SHEET 3 OF 3 11.1

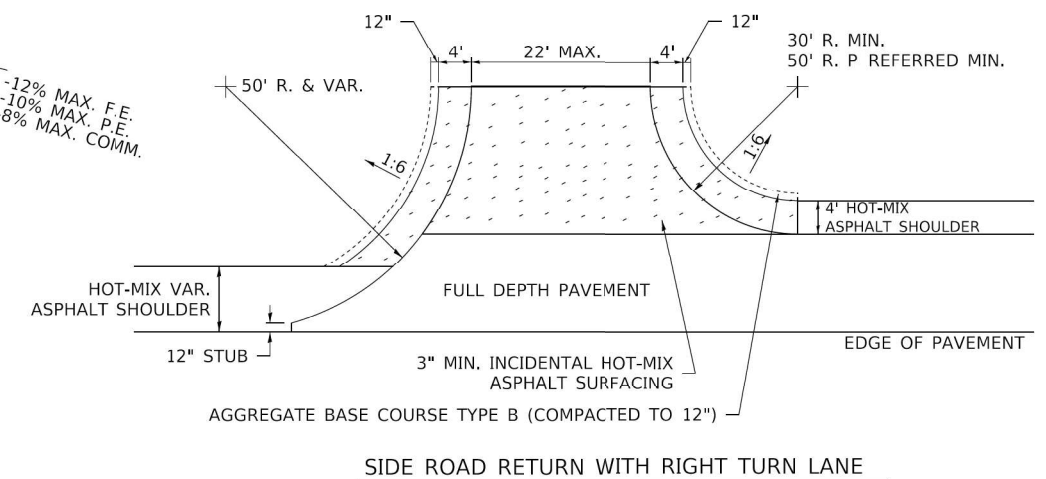
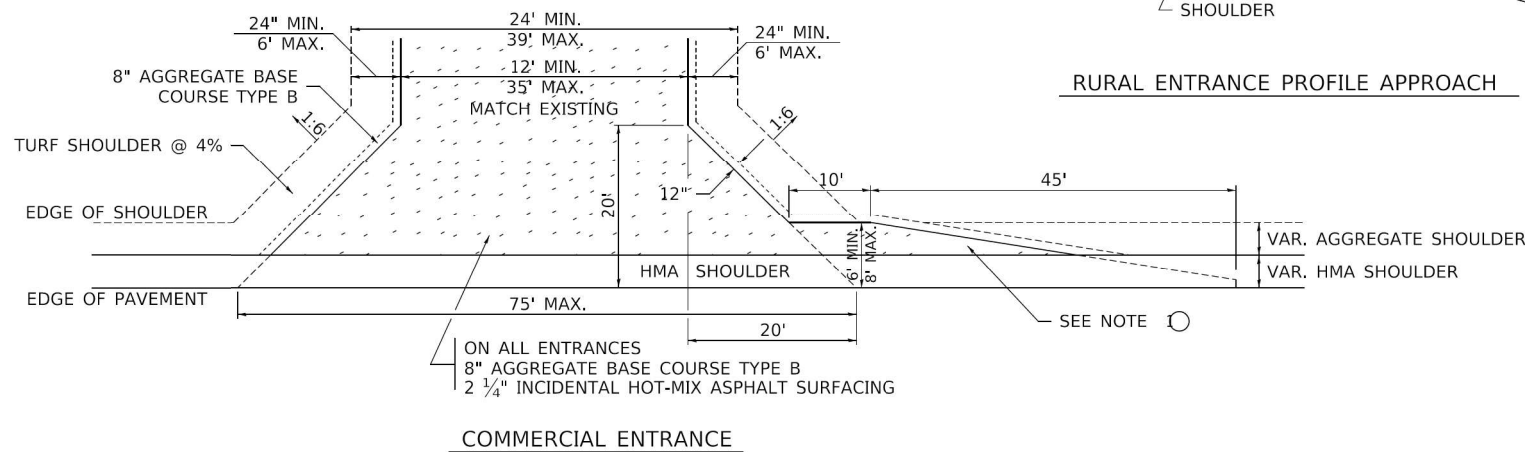
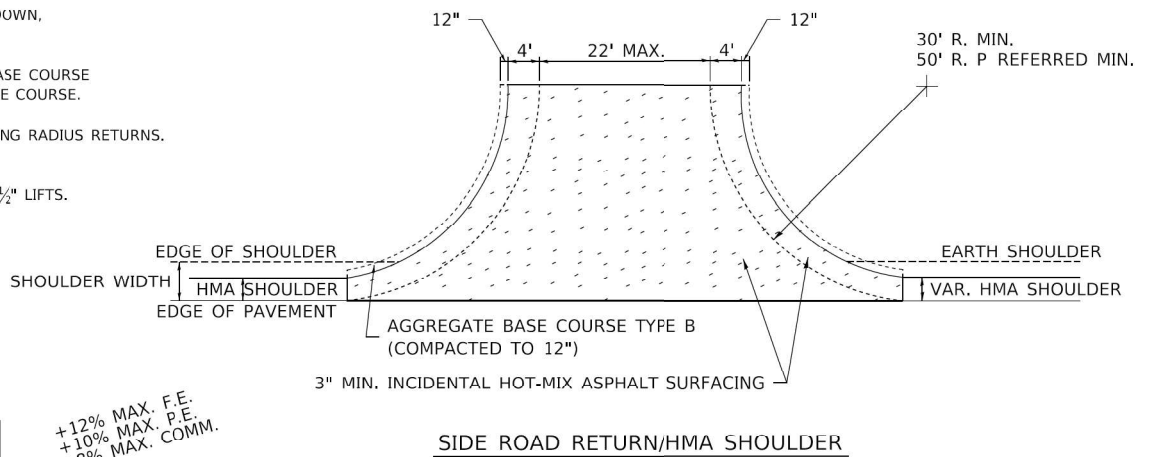
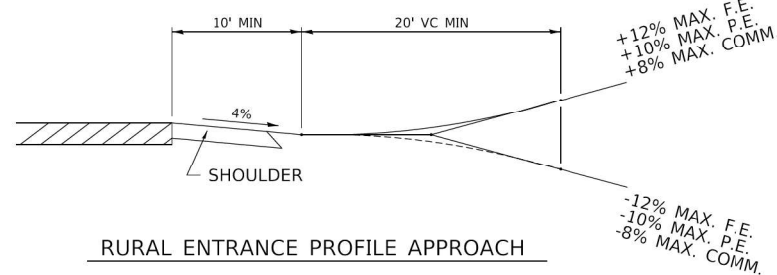
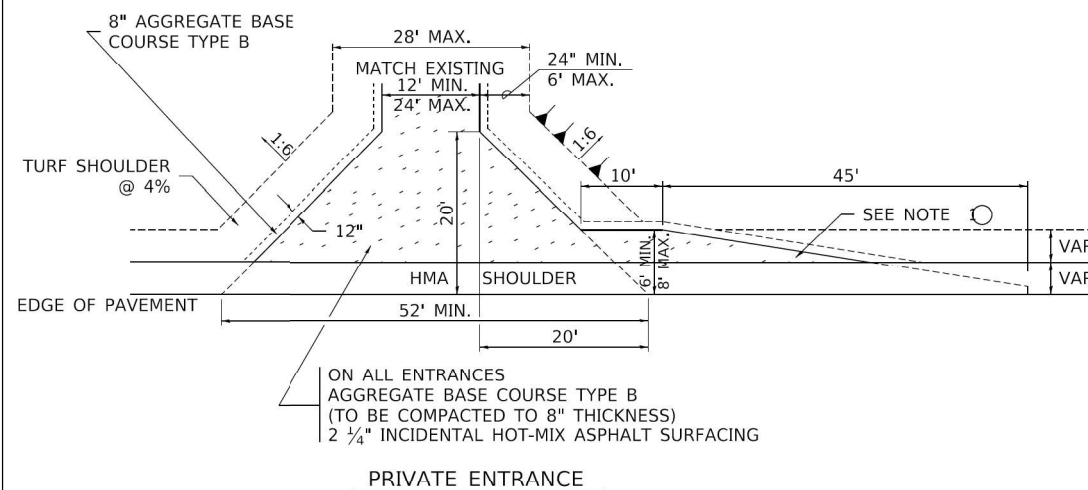
The Upchurch Group architects engineers surveyors Professional Design Firm Corporation License No. 184-001401 Email: upchurchgroup@upchurchgroup.com	USER NAME = Sta42 TUG PROJECT NO. 3119007-06 PLOT SCALE = 2.0000 ' / in. PLOT DATE = 6/22/2022	DESIGNED - SJF DRAWN - CHECKED - SJF DATE - JUNE 22, 2022	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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										ILLINOIS FED. AID PROJECT

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HOT-MIX ASPHALT APPROACHES AND MAILBOX RETURNS



- NOTE**
- TURNOUTS ARE TO BE CONSTRUCTED ON THE APPROACH SIDE OF ALL PE & CE REGARDLESS IF A MAILBOX IS PRESENT.
 - ALL PE & CE ARE TO BE SURFACED TO RIGHT OF WAY LINE. AREA BEHIND RIGHT OF WAY SHALL MATCH EXISTING SURFACE.
 - ALL PE & CE TO BE CONSTRUCTED WITH AN 8" AGGREGATE BASE COURSE, TYPE B AND WITH A 2 1/4" INCIDENTAL HOT-MIX ASPHALT SURFACING, UNLESS OTHERWISE NOTED.
 - PE ARE TO BE AGGREGATE TO RIGHT OF WAY OR TOUCH DOWN, WHICH EVER IS GREATEST.
 - EXCAVATION REQUIRED FOR PLACEMENT OF AGGREGATE BASE COURSE SHALL BE INCLUDED IN THE COST OF THE AGGREGATE BASE COURSE.
 - ON ENTRANCES THE CONTRACTOR HAS THE OPTION OF USING RADIUS RETURNS. USE RADII OF 20' TO 60'.
 - SIDE ROADS SHALL HAVE 3" INCIDENTAL PLACED IN TWO 1 1/2" LIFTS.



FILE NAME: District 2 Standard	USER NAME = IDOT/District 2	DESIGNED -	REVISED - 8-03-17
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	PLCT DATE = 1/11/2022	CHECKED -	REVISED - 6-27-14
		DATE -	REVISED - 8-27-13

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		REGION 2 / DISTRICT 2 STANDARD		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		REGION 2 / DISTRICT 2 STANDARD		CONTRACT NO.				
		SCALE: 2.0000' / in.	SHEET OF SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT			

HOT-MIX ASPHALT APPROACHES AND MAILBOX RETURNS 20.1

The Upchurch Group
architects engineers surveyors

USER NAME = Sta42
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PLOT SCALE = 2,0000' / in.
PLOT DATE = 6/22/2022

DESIGNED - SJF
DRAWN -
CHECKED - SJF
DATE - JUNE 22, 2022

REVISED -
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SCALE: 2.0000' / in. SHEET OF SHEETS STA. TO STA.

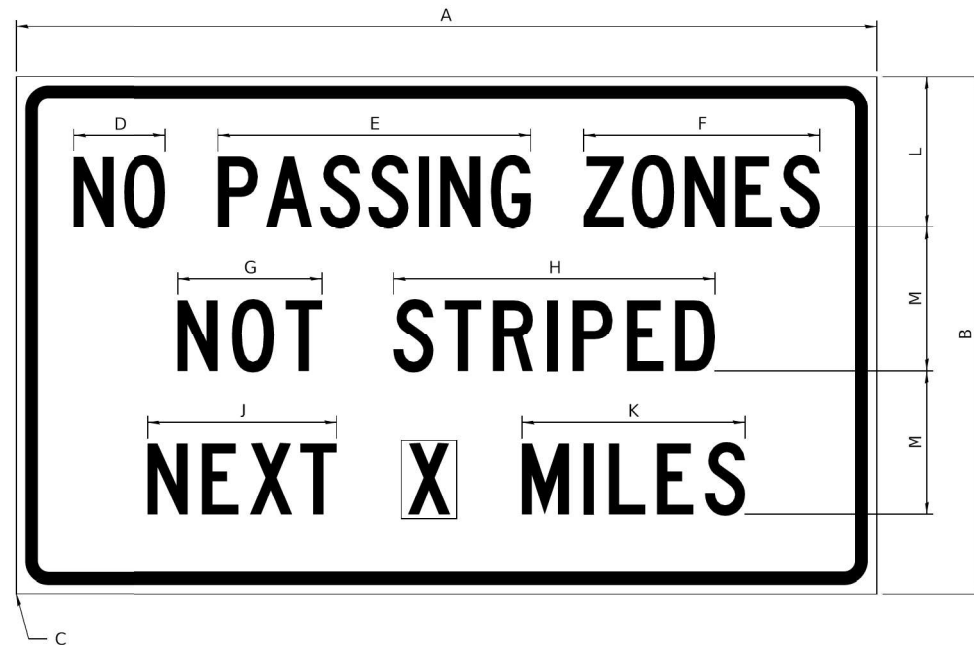
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	105
CONTRACT NO. 64H57				

ILLINOIS FED. AID PROJECT

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WORK ZONE SIGN DETAILS

ILLINOIS STANDARD G20-I100



COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS											
	A	B	C	D	E	F	G	H	J	K	L	M
60 x 36	60.00	36.00	2.25	6.4	21.80	16.40	10.00	22.40	13.20	15.50	10.50	10.00

SIGN SIZE	SERIES BY LINE			MARGIN	BORDER
	1	2	3		
60 x 36	5C	5C	5C	0.625	0.875

Sign not to scale

GENERAL NOTES

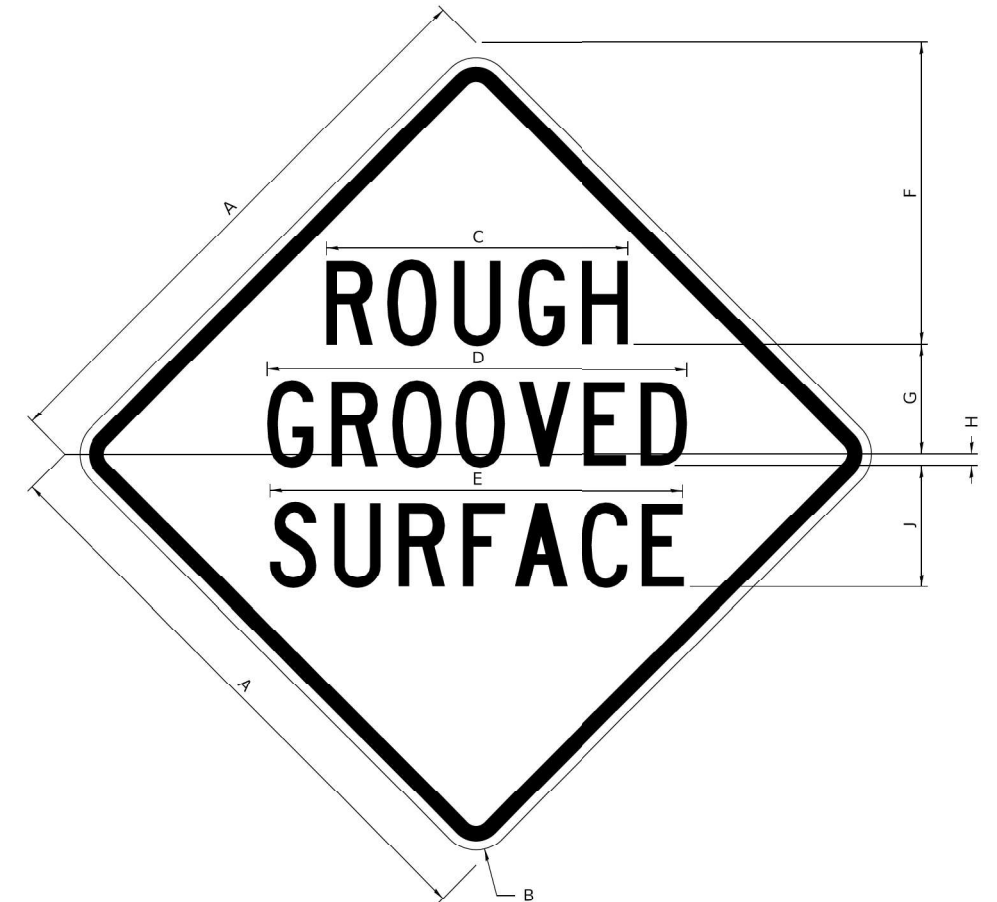
All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

ILLINOIS STANDARD W8-I107



COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS									
	A	B	C	D	E	F	G	H	J	
48 x 48	48.00	3.00	25.00	34.80	34.20	24.94	9.00	1.00	10.00	

SIGN SIZE	SERIES BY LINE			MARGIN	BORDER
	1	2	3		
48 x 48	7C	7C	7C	1.250	0.750

Sign not to scale

FILE NAME: District 2 Standard	USER NAME = IDOT/District 2	DESIGNED -	REVISED - 3-02-16
	TUG PROJECT NO. 3119007-06	DRAWN -	REVISED -
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	PLCT DATE = 1/11/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REGION 2 / DISTRICT 2 STANDARD

SCALE:	SHEET 1 OF 4 SHEETS	STA. TO STA.	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.

WORK ZONE SIGN DETAILS SHEET 1 OF 4 34.1

MODEL: P:\info\... FILE NAME: PLCT\... IDOT-DIST2\DOT 2.PLT 190-22... over Elkhorst, Credit: 3119007-06\CAD_Sheet\02\4187\shh.D3_Sign\stdrds_full_size.dgn

The Upchurch Group architects engineers surveyors	USER NAME = Sta42	DESIGNED - SJF	REVISED -
Professional Design Firm Corporation 123 North 150 Street Marengo, IL 61758 Phone: 317.253.1377 License No. 184-001401 email: upchurchgroup@upchurchgroup.com	TUG PROJECT NO. 3119007-06	DRAWN -	REVISED -
	PLCT SCALE = 2.0000' / in.	CHECKED - SJF	REVISED -
	PLCT DATE = 6/22/2022	DATE - JUNE 22, 2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REGION 2 / DISTRICT 2 STANDARD

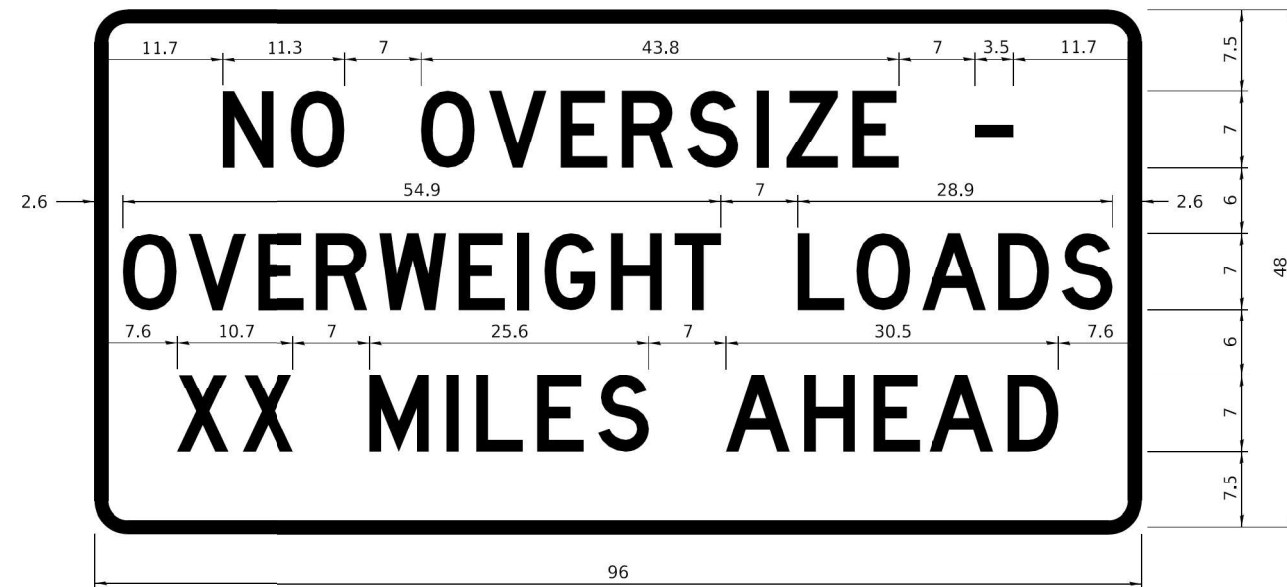
SCALE: 2.0000' / in.	SHEET OF SHEETS	STA. TO STA.	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			2079	16BR-1	OGLE	130	106

CONTRACT NO. 64H57

ILLINOIS FED. AID PROJECT

WORK ZONE SIGN DETAILS

ROAD CLOSED TO OVERSIZED LOADS



COLOR	LEGEND AND BORDER BACKGROUND	BLACK ORANGE	NON-REFLECTORIZED REFLECTORIZED
-------	------------------------------	--------------	---------------------------------

Permit Loads - Loads Over 13 Feet; 3.0" Radius, 1.3" Border;
 [NO OVERSIZE -] D; [OVERWEIGHT LOADS] D 85% spacing; [XX MILES AHEAD] D;
 Table of letter and object lefts.

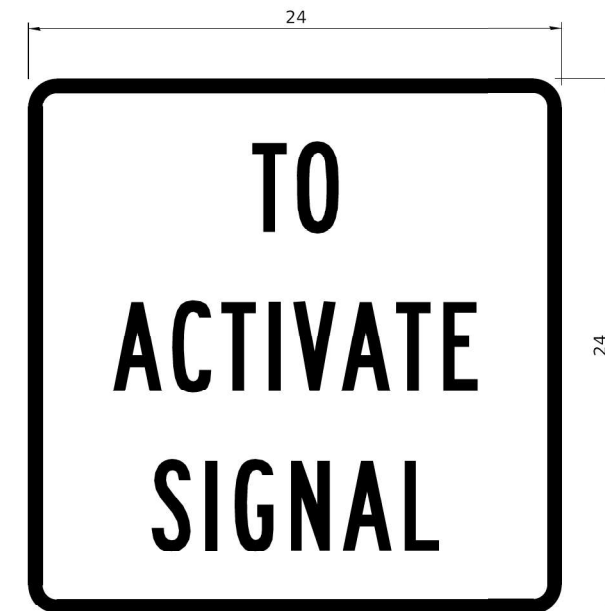
N	O	O	V	E	R	S	I	Z	E	-
11.7	18.1	30.0	36.2	42.8	48.4	54.4	60.7	63.5	69.5	80.8

O	V	E	R	W	E	I	G	H	T	L	O	A	D	S
2.6	8.6	15.0	20.4	26.2	33.4	38.8	41.3	47.4	53.2	64.5	69.9	75.9	82.9	88.7

X	X	M	I	L	E	S	A	H	E	A	D
7.6	13.6	25.3	32.3	35.1	40.6	46.2	57.9	65.1	71.4	76.6	83.7

Sign not to scale

STOP LINE SIGN FOR TEMPORARY SIGNALS



COLOR	LEGEND AND BORDER BACKGROUND	BLACK WHITE	NON-REFLECTORIZED REFLECTORIZED
-------	------------------------------	-------------	---------------------------------

SIGN SIZE	SERIES BY LINE		
	1	2	3
24 x 24	4C	4C	4C

Sign not to scale

GENERAL NOTES

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

FILE NAME: District 2 Standard	USER NAME = IDOT/District 2	DESIGNED -	REVISED - 3-02-16	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLCT SCALE = 1.0000 ' / in.	CHECKED -	REVISED -			SCALE: SHEET 3 OF 4 SHEETS STA. TO STA. ILLINOIS FED. AID PROJECT					
	PLCT DATE = 1/11/2022	DATE -	REVISED -			CONTRACT NO.					
WORK ZONE SIGN DETAILS SHEET 3 OF 4 34.1											

MODEL: P:\info\p\c\upch\IDOT-DIST2\IDOT_2_PFB_190-22_wdtable PH 1 and II sub to BFWNVO 6 US 52 over Elkhorn Creek 3119007-06\CAD_Sheets\ID24187\shd.D3_ScanDraws\Full_size.dwg

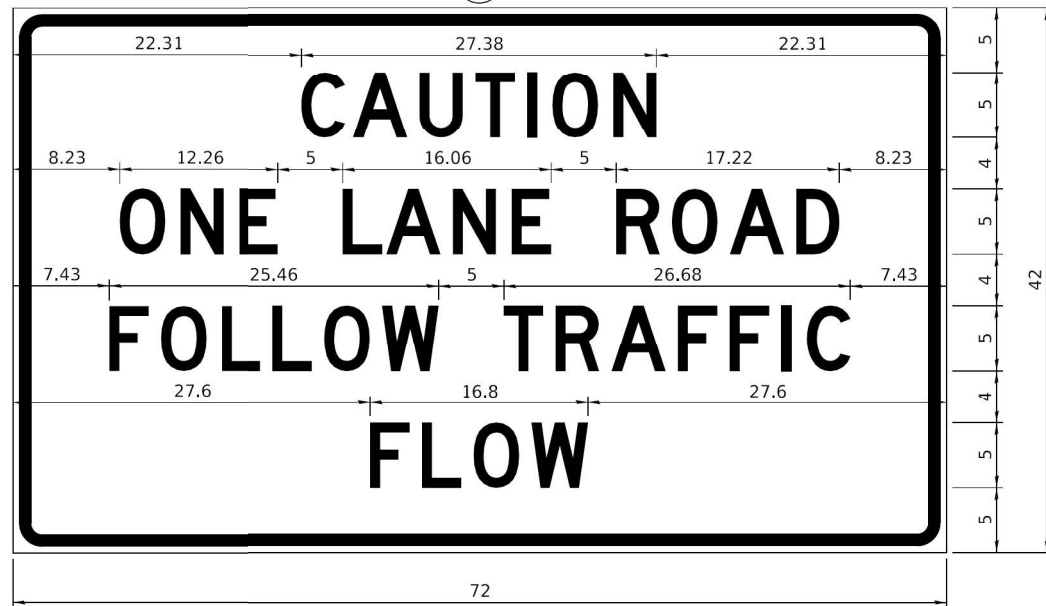
The Upchurch Group
 architects engineers surveyors
 Professional Design Firm Corporation
 License No. 184-001401
 email: upchurchgroup@upchurchgroup.com

USER NAME = Sta42	DESIGNED - SJF	REVISED -
TUG PROJECT NO. 3119007-06	DRAWN -	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED - SJF	REVISED -
PLOT DATE = 6/22/2022	DATE - JUNE 22, 2022	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		SCALE: 2.0000 ' / in. SHEET OF SHEETS STA. TO STA. ILLINOIS FED. AID PROJECT					
		CONTRACT NO. 64H57					
		CONTRACT NO. 64H57					

**ENTRANCE SIGN FOR USE
WITH TEMPORARY SIGNALS**

WORK ZONE SIGN DETAILS



COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

2.25" Radius, 0.88" Border, 0.50" Indent;
[CAUTION] D; [ONE LANE ROAD] D;
[FOLLOW TRAFFIC] D; [FLOW] D

2 This sign shall be installed at entrances located between the temporary signals as shown in the staging plans.

Table Of Widths And Spaces

22.31	C	3.36	0.62	A	4.18	0.94	U	3.36	0.94	T	3.04	0.94	I	0.78	1.17	O	3.52	1.17	N	3.36	22.31
-------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	-------

8.23	O	3.51	1.17	N	3.36	1.18	E	3.04
------	---	------	------	---	------	------	---	------

5.00	L	3.05	0.31	A	4.18	0.94	N	3.36	1.17	E	3.05
------	---	------	------	---	------	------	---	------	------	---	------

5.00	R	3.36	0.93	O	3.52	0.94	A	4.18	0.93	D	3.36	8.23
------	---	------	------	---	------	------	---	------	------	---	------	------

7.43	F	3.04	0.94	O	3.52	1.17	L	3.04	0.94	L	3.05	0.94	O	3.51	0.94	W	4.37
------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------

5.00	T	3.05	0.94	R	3.36	0.94	A	4.18	0.93	F	3.05	0.94	F	3.04	0.94	I	0.78	1.18	C	3.35	7.43
------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------

27.60	F	3.05	0.94	L	3.04	0.94	O	3.52	0.93	W	4.38	27.60
-------	---	------	------	---	------	------	---	------	------	---	------	-------

Sign not to scale

GENERAL NOTES

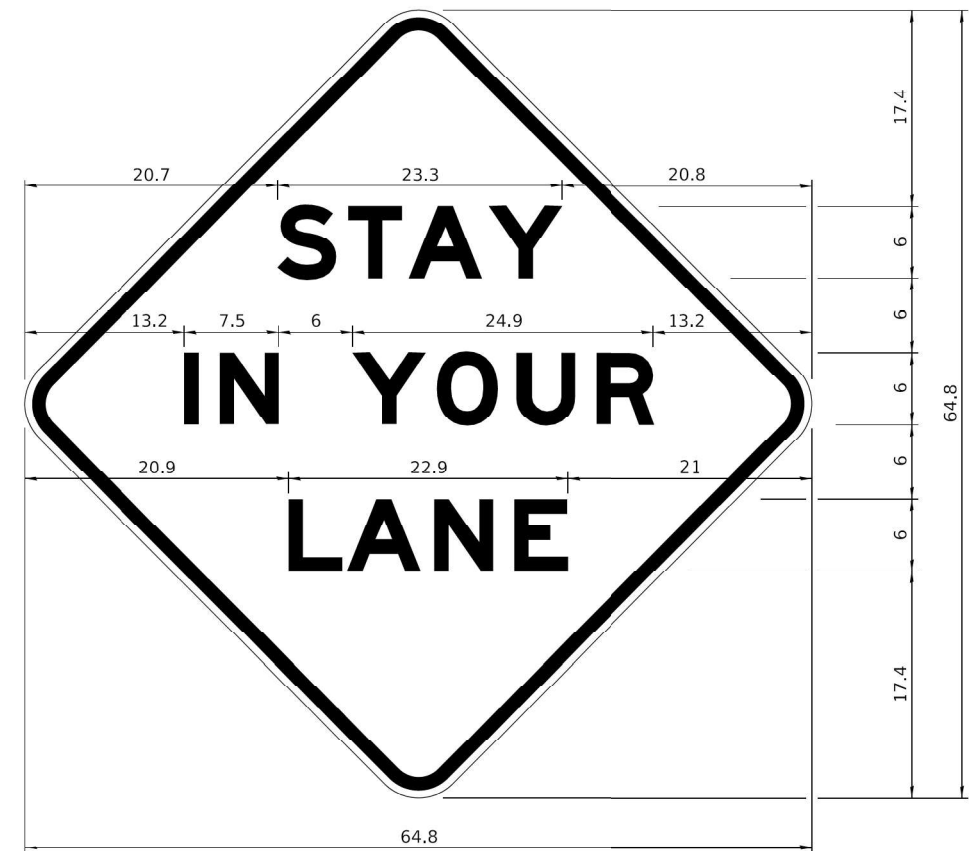
All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

STAY IN YOUR LANE



COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

48.0" across sides 3.8" Radius, 1.0" Border, 0.6" Indent;
"STAY" E Mod; "IN YOUR" E Mod; "LANE" E Mod;

Table of Letter and Object Lefts

S	T	A	Y
20.7	26.8	31.6	38.0

I	N	Y	O	U	R
13.2	15.9	26.7	33.9	40.5	46.8

L	A	N	E
20.9	25.8	33.1	39.4

Sign not to scale

FILE NAME: Distrikt 2 Standard	USER NAME = IDOT/District 2	DESIGNED -	REVISED - 3-02-16
	PLCT SCALE = 1.0000' / in.	CHECKED -	REVISED -
	PLCT DATE = 1/11/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REGION 2 / DISTRICT 2 STANDARD

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	109
CONTRACT NO. 64H57				

WORK ZONE SIGN DETAILS SHEET 4 OF 4 34.1

The Upchurch Group
architects engineers surveyors
123 North 15th Street
Moline, IL 61918
Phone: 317.253.1177
License No. 154-001401
email: upchurchgroup@upchurchgroup.com

USER NAME = Sta42	DESIGNED - SJF	REVISED -
TUG PROJECT NO. 3119007-06	DRAWN -	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED - SJF	REVISED -
PLOT DATE = 6/22/2022	DATE - JUNE 22, 2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REGION 2 / DISTRICT 2 STANDARD

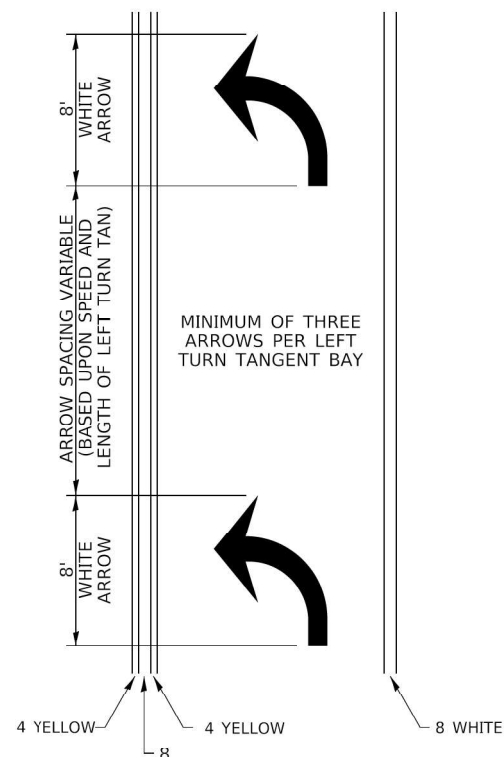
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	109
CONTRACT NO. 64H57				

MODEL: P:\info\p\c\upch\IDOT-DIST2\DOT 2_PFB_190-22_wdtable PH 1 and II sub to BFWWVO 6 US 52 over Elkhorn Creek 3119007-06\CAD_Sheets\0241857\shd.D3_Signboards-Full_size.dgn

TYPICAL PAVEMENT MARKINGS

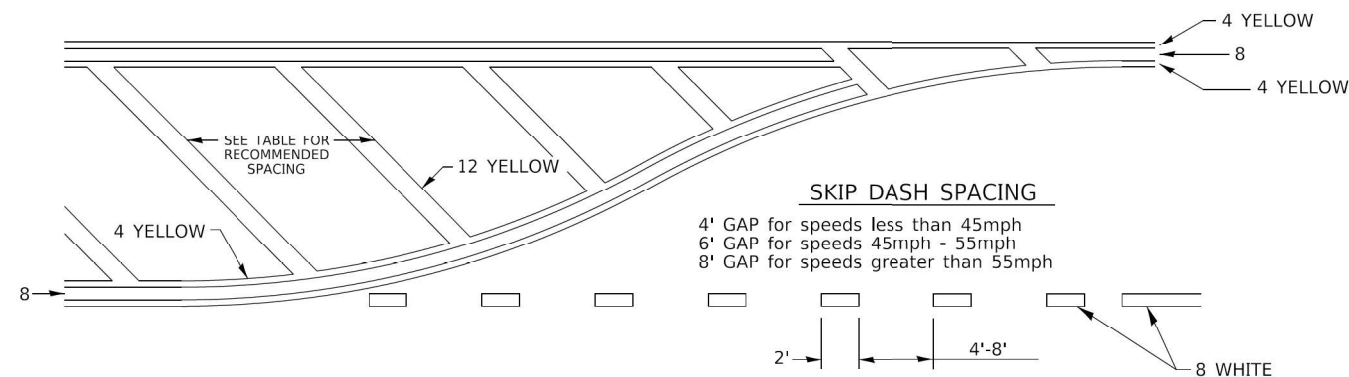
ARROW LAYOUT



- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER
- ◆ TWO-WAY AMBER MARKER

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

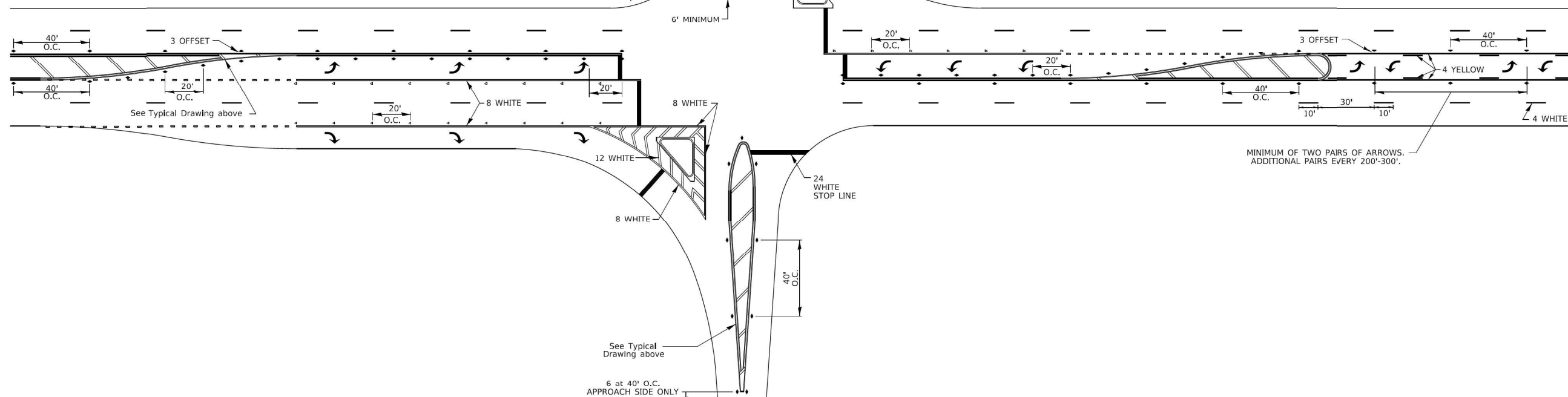
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 30MPH	50'	15'	10'
30-40MPH	75'	20'	15'
45MPH & over	75'	30'	20'

NOTE: if the spacing recommended in the Table does not permit at least five diagonal lines in the area being marked, the spacing from the next lowest speed range should be used. The recommended spacing is measured parallel to the pavement center line.



FILE NAME: District 2 Standard	USER NAME = IDOT/District 2	DESIGNED -	REVISED - 6-27-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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	PLCT DATE = 1/11/2022	CHECKED -	REVISED -		TYPICAL PAVEMENT MARKINGS SHEET 2 OF 3 41.1							
		DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

MODEL Path: \\... FILE NAME: PLCT\... 190-22... 3119007-06... 123 North 150 Street Moline, IL 61918 Phone: 317.253.1177 License No. 184-001401 email: upchurchgroup@upchurchgroup.com	USER NAME = Sta42	DESIGNED - SJF	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	TUG PROJECT NO. 3119007-06	DRAWN -	REVISED -		SCALE: 2,0000' / in.	SHEET OF SHEETS	STA.	TO STA.	CONTRACT NO. 64H57			
	PLOT SCALE = 2,0000' / in.	CHECKED - SJF	REVISED -		ILLINOIS FED. AID PROJECT							
	PLOT DATE = 6/22/2022	DATE - JUNE 22, 2022	REVISED -		ILLINOIS FED. AID PROJECT							

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

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

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 No. = 6/22/2022

The Upchurch Group
 architects engineers surveyors
 123 North 150 Street
 Mankato, IL 61938
 Phone: 317.253.3177
 License No. 184403461
 email: upchurchgroup@upchurchgroup.com

USER NAME = Sta42
 TUG PROJECT NO. 3119007-06
 PLOT SCALE = 20,0000 * / in.
 PLOT DATE = 6/22/2022

DESIGNED - SJF
 DRAWN -
 CHECKED - SJF
 DATE - JUNE 22, 2022

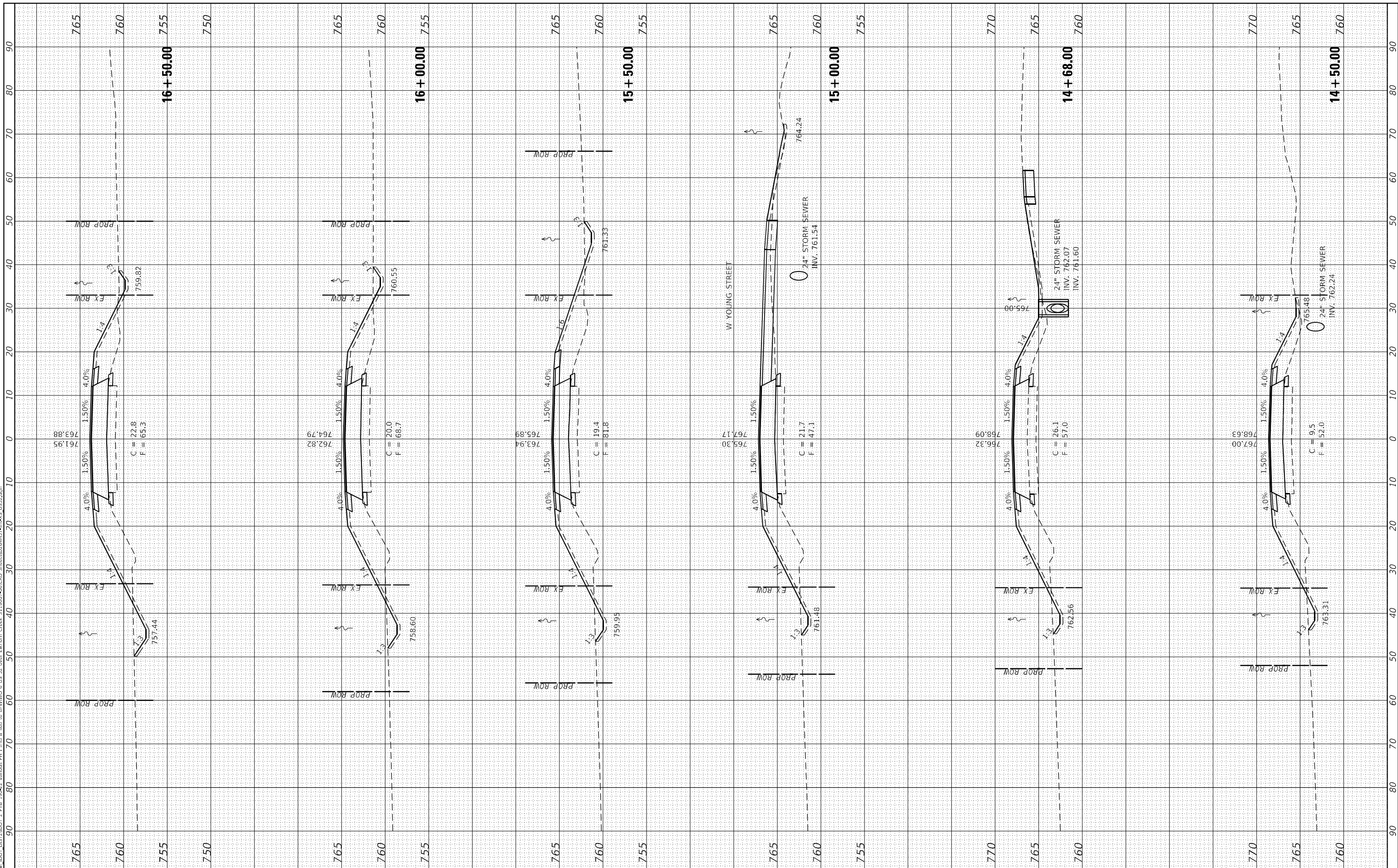
REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

U.S. ROUTE 52 CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. 14+50.00 TO STA. 16+50.00

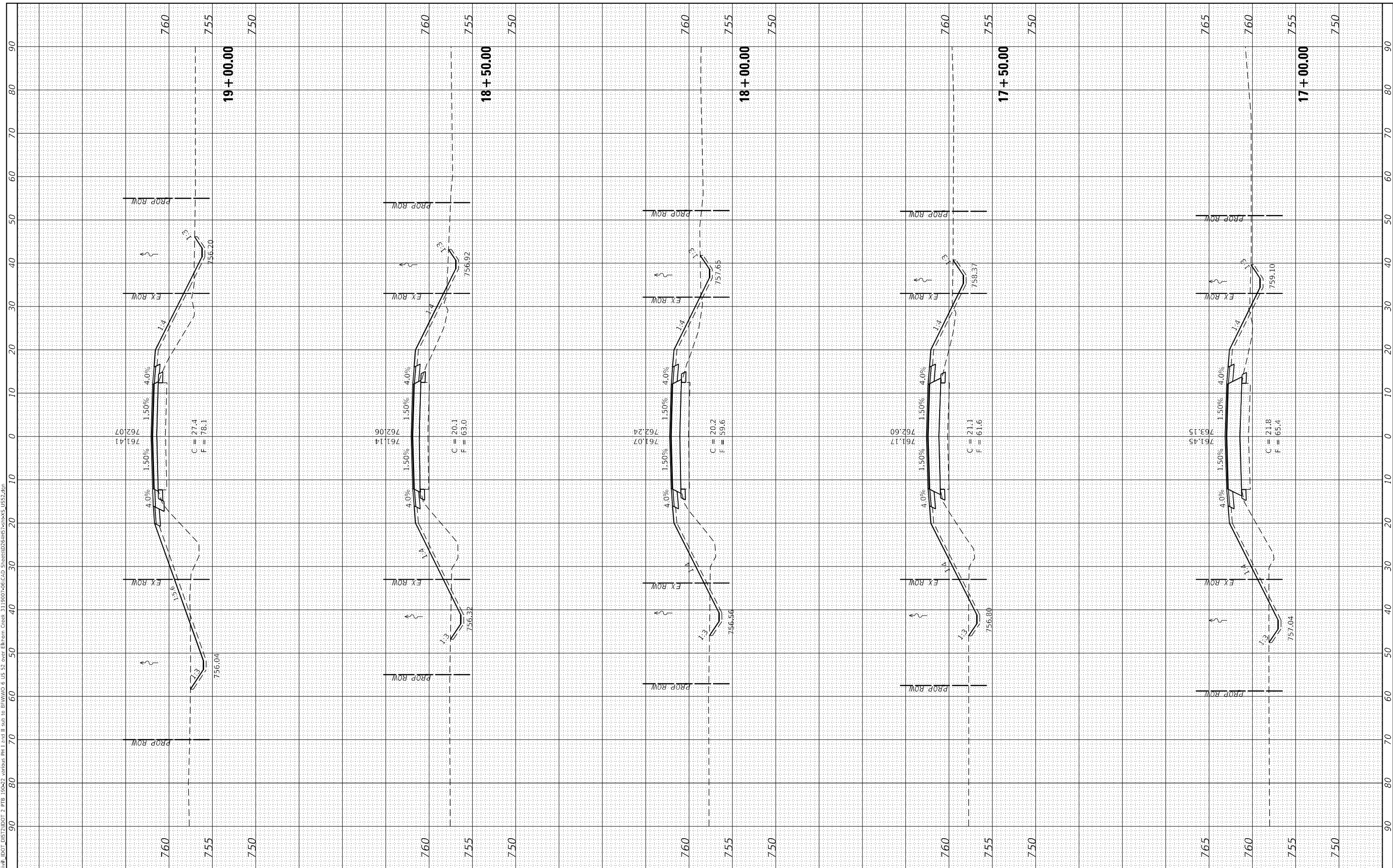
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	116
CONTRACT NO. 64H57				
ILLINOIS FED. AID PROJECT				



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

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

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The Upchurch Group
 architects engineers surveyors
 123 North 150 Street
 Maitland, FL 32751
 Phone: 317.253.3177
 License No. 184403461
 Email: upchurchgroup@upchurchgroup.com

USER NAME	= Sta42
TUG PROJECT NO.	3119007-06
PLOT SCALE	= 20.0000 * / in.
PLOT DATE	= 6/22/2022

DESIGNED	- SJF	REVISED	-
DRAWN	-	REVISED	-
CHECKED	- SJF	REVISED	-
DATE	- JUNE 22, 2022	REVISED	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

U.S. ROUTE 52 CROSS SECTIONS

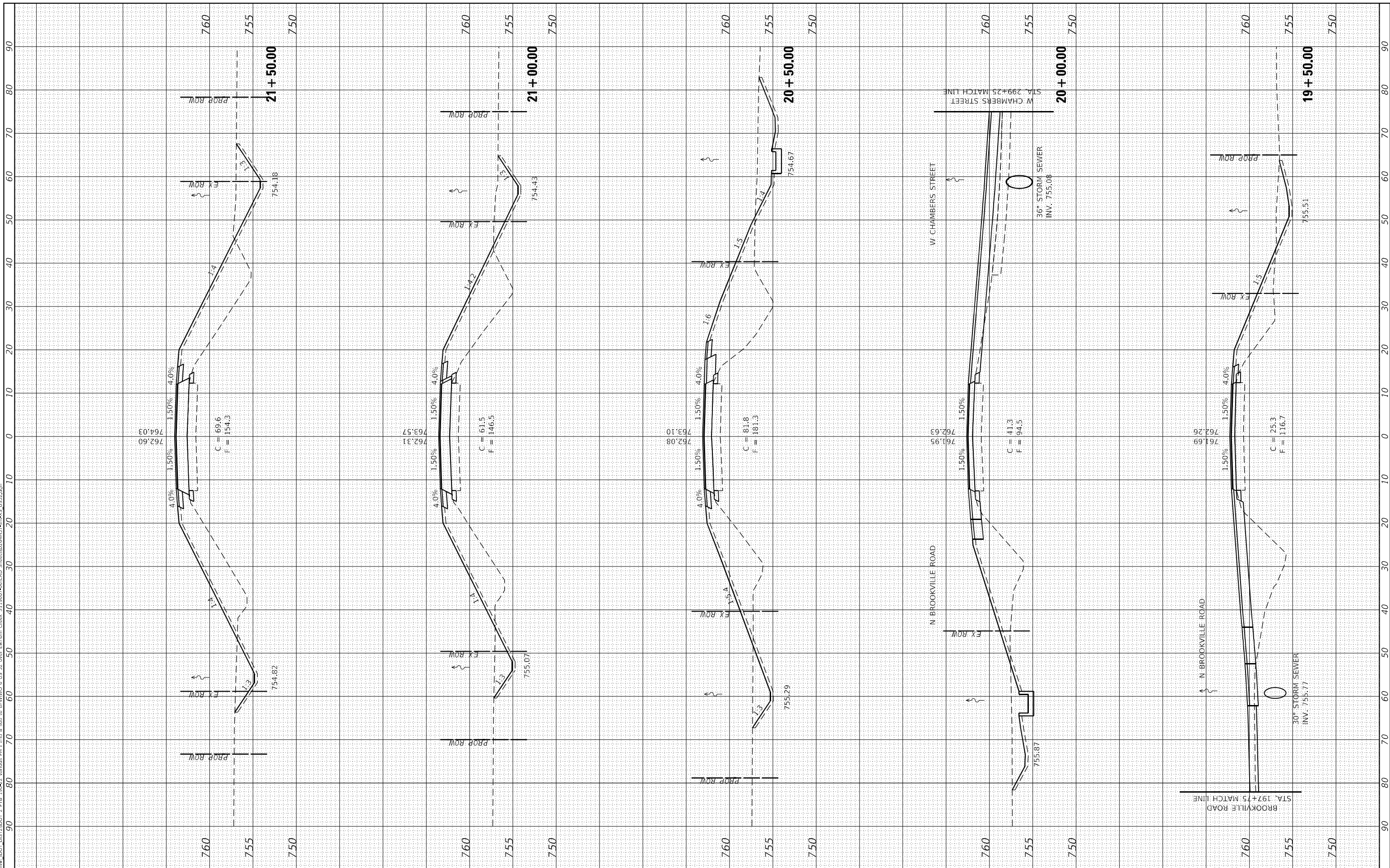
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	117
CONTRACT NO. 64H57				
ILLINOIS		FED. AID PROJECT		

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

ORIGINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	
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	AREAS CHECKED	

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The Upchurch Group
 architects engineers surveyors
 Professional Design Firm Corporation
 123 North 15th Street
 Mankato, MN 56001
 Phone: 507.253.3177
 License No. 184403340
 Email: upchurchgroup@upchurchgroup.com

USER NAME =	Sta42
TUG PROJECT NO.	3119007-06
PLOT SCALE =	20.0000" / in.
PLOT DATE =	6/22/2022

DESIGNED -	SJF
DRAWN -	
CHECKED -	SJF
DATE -	JUNE 22, 2022

REVISED -	
REVISED -	
REVISED -	
REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

U.S. ROUTE 52 CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. 19+50.00 TO STA. 21+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	118
CONTRACT NO. 64H57				
ILLINOIS FED. AID PROJECT				

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

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

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 USER NAME = Sta42

The Upchurch Group
 architects engineers surveyors
 123 North 15th Street
 Marion, IL 61918
 Phone: 317.253.1177
 License No. 184403340
 Email: upchurchgroup@upchurchgroup.com

DESIGNED - SJF
 DRAWN -
 CHECKED - SJF
 DATE - JUNE 22, 2022

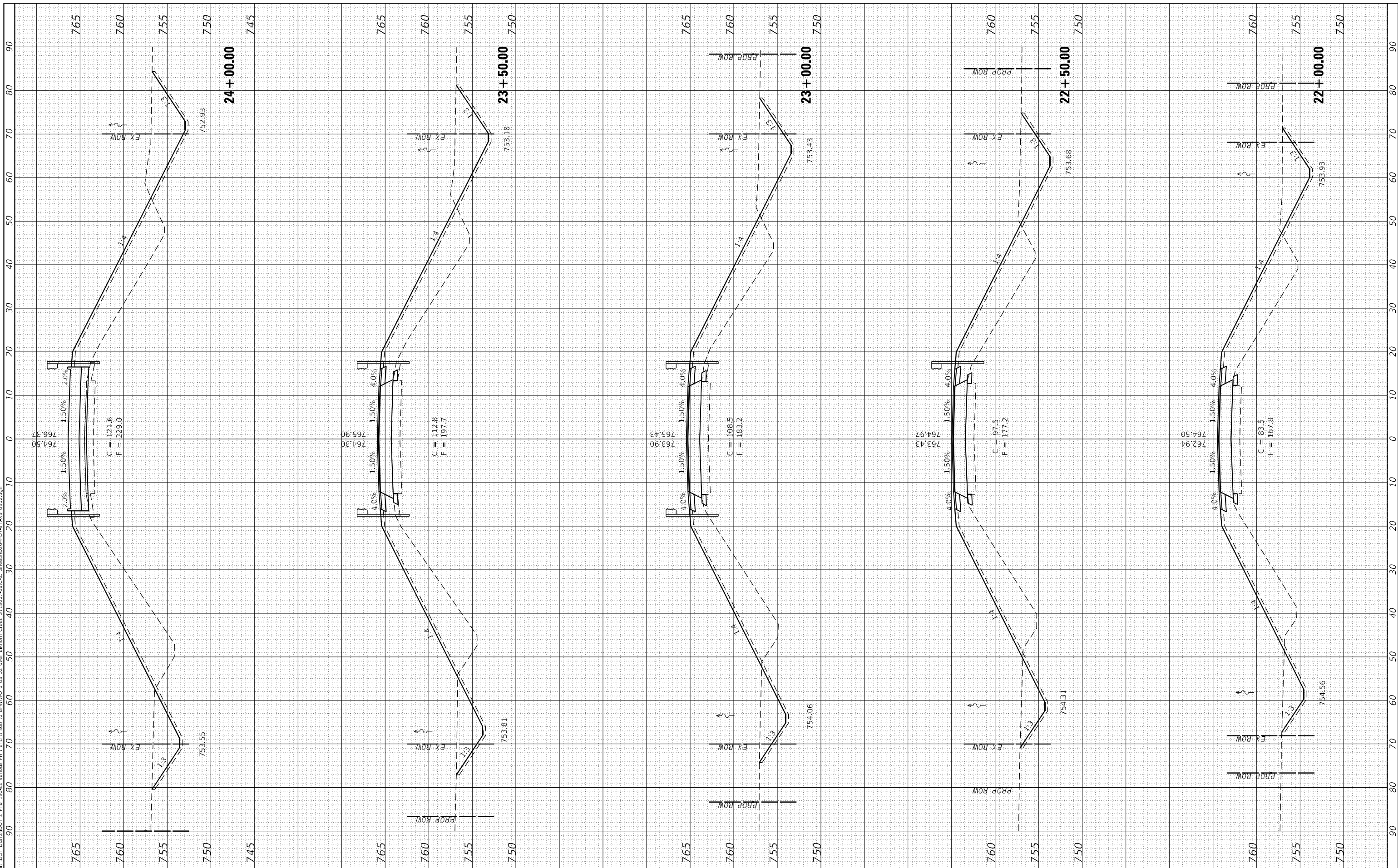
REVISIONS
 REVISED -
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 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

U.S. ROUTE 52 CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. 22+00.00 TO STA. 24+00.00

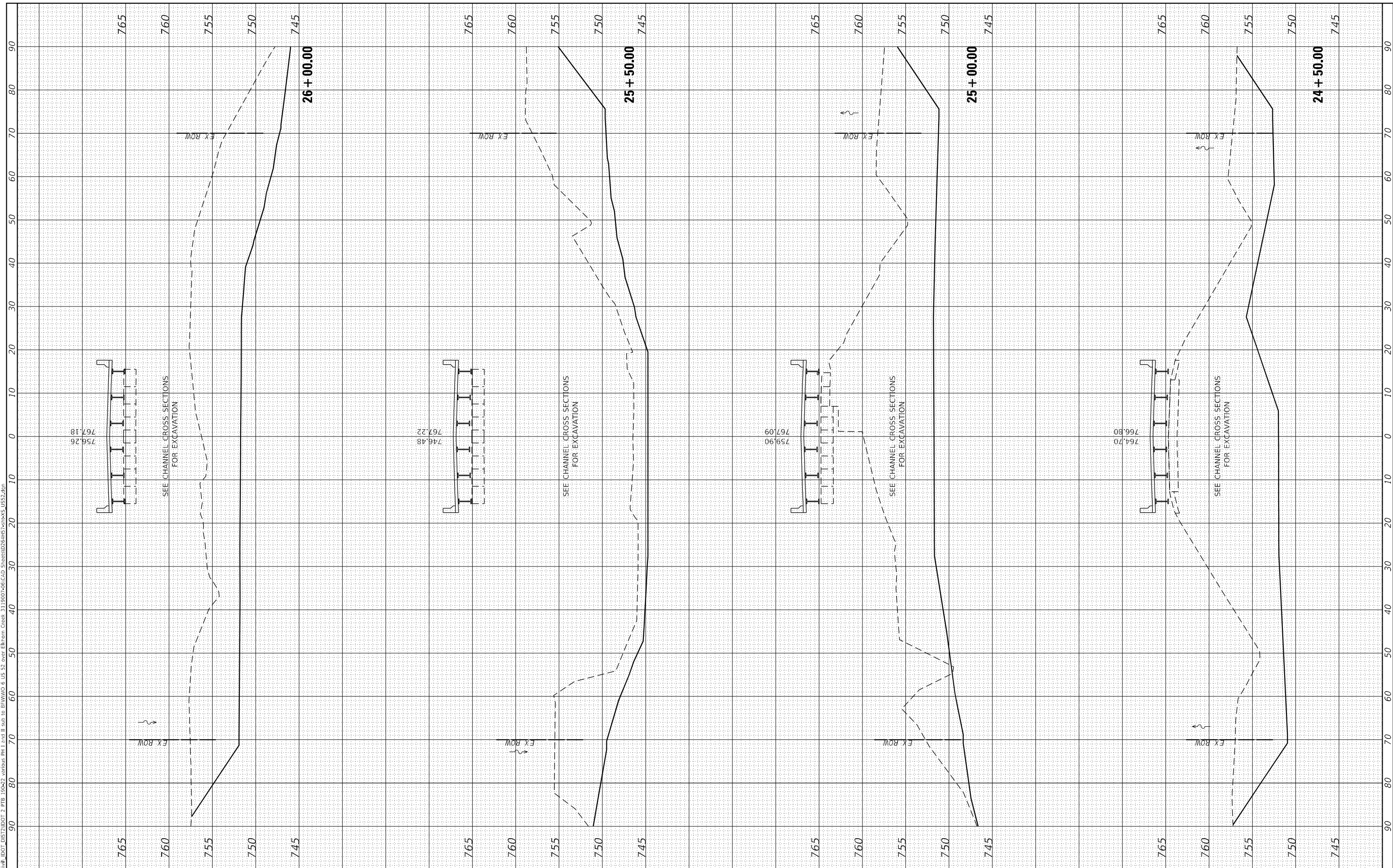
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	119
CONTRACT NO. 64H57				
ILLINOIS FED. AID PROJECT				



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

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

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The Upchurch Group
 architects engineers surveyors
 123 North 15th Street
 Professional Design
 Firm Corporation
 License No. 184-03461
 Phone: 317.735.3177
 Fax: 317.735.3177
 email: upchurchgroup@upchurchgroup.com

USER NAME =	Sta42
TUG PROJECT NO.	3119007-06
PLOT SCALE =	20.0000 * / in.
PLOT DATE =	6/22/2022

DESIGNED -	SJF	REVISED -	
DRAWN -		REVISED -	
CHECKED -	SJF	REVISED -	
DATE -	JUNE 22, 2022	REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

U.S. ROUTE 52 CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. 24+50.00 TO STA. 26+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	120
CONTRACT NO. 64H57				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Default
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The Upchurch Group
 architects engineers surveyors
 123 North 15th Street
 Madison, WI 53703
 Phone: 608.255.1177
 Fax: 608.255.1178
 Email: upchurchgroup@upchurchgroup.com

USER NAME = Sta42	DESIGNED - SJF
TUG PROJECT NO. 3119007-06	DRAWN -
PLOT SCALE = 20.0000 * / in.	CHECKED - SJF
PLOT DATE = 6/22/2022	DATE - JUNE 22, 2022

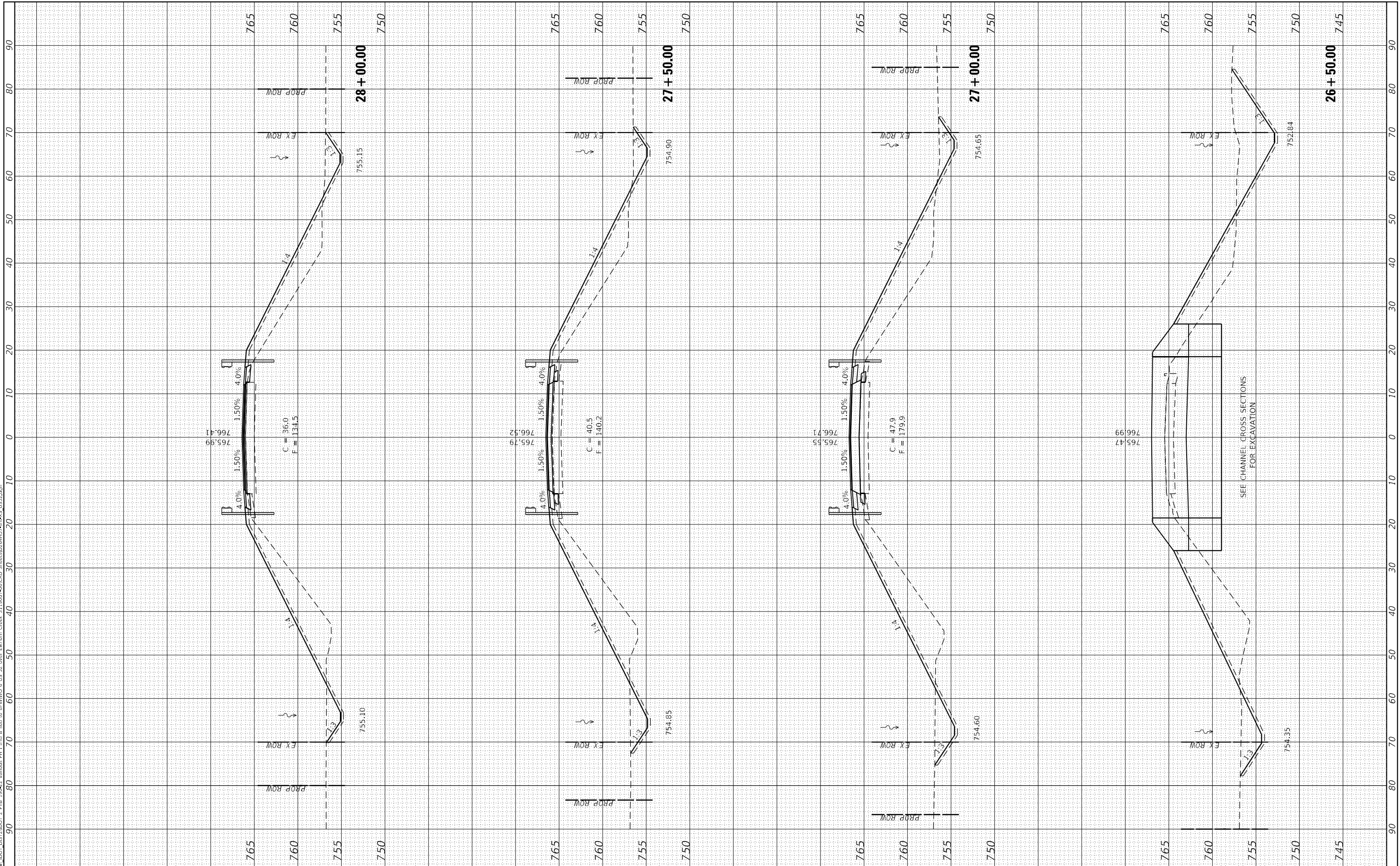
REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

U.S. ROUTE 52 CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. 26+50.00 TO STA. 28+00.00

F.A.S. RTE. 2079	SECTION 16BR-1	COUNTY OGLE	TOTAL SHEETS 130	SHEET NO. 121
CONTRACT NO. 64H57				
ILLINOIS FED. AID PROJECT				



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

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

MODEL: Definit
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The Upchurch Group
 architects engineers surveyors
 123 North 150 Street
 Maitland, FL 32751
 Phone: 317.253.1177
 License No. 184403401
 email: upchurchgroup@upchurchgroup.com

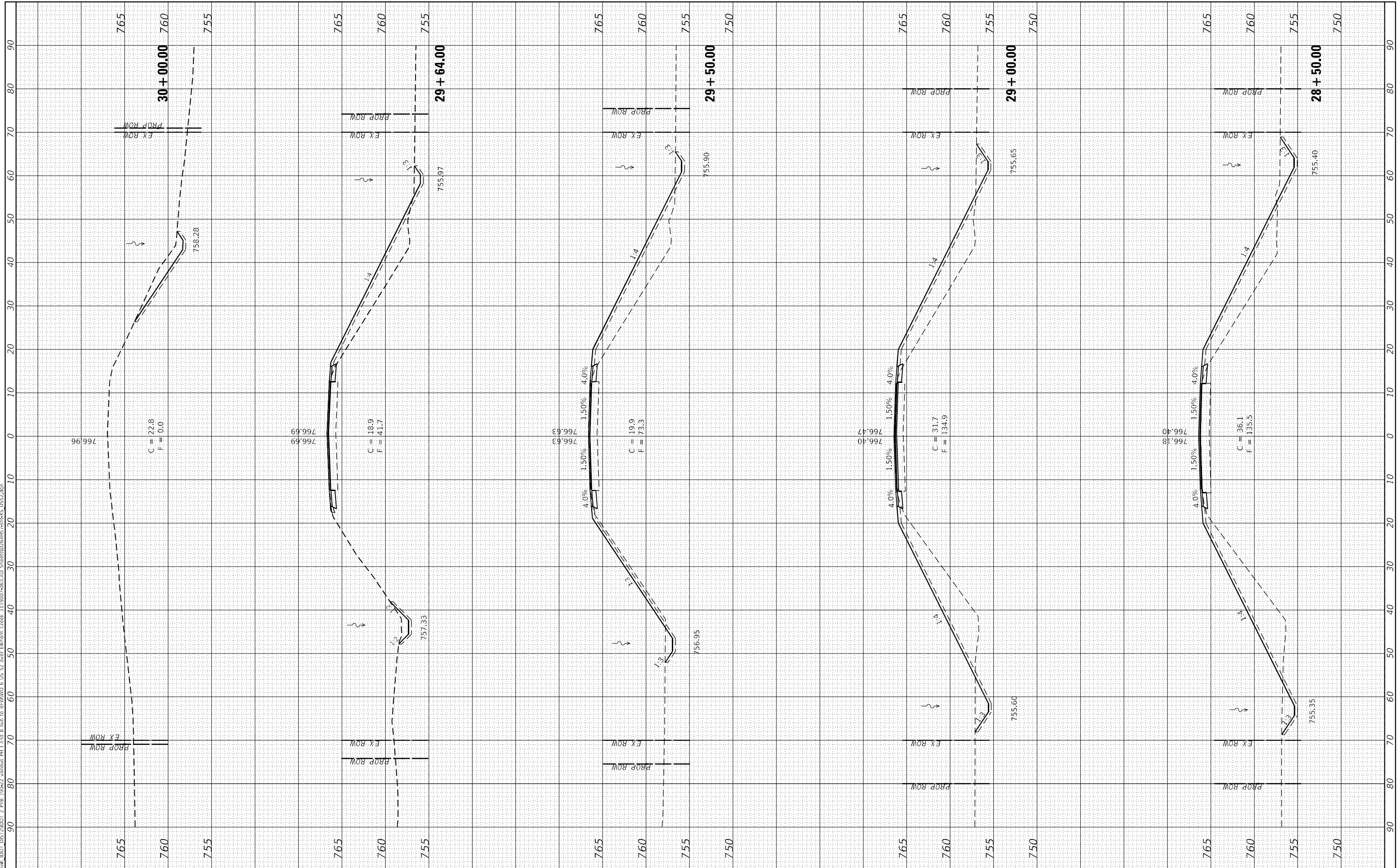
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PLOT SCALE = 20.0000" / in.	CHECKED - SJF	REVISED -
PLOT DATE = 6/22/2022	DATE - JUNE 22, 2022	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

U.S. ROUTE 52 CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. 28+50.00 TO STA. 30+00.00

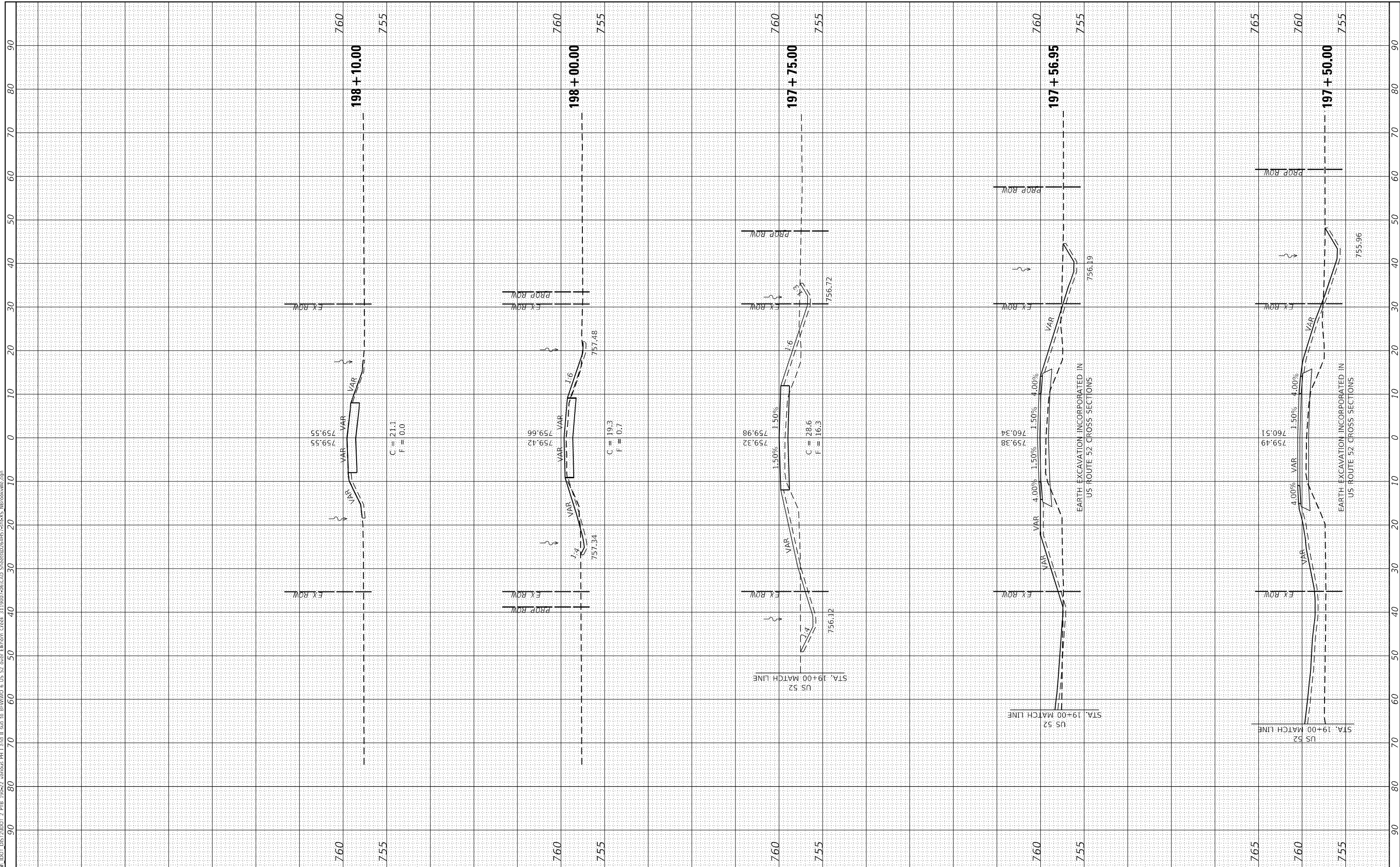
F.A.S. RTE. 2079	SECTION 16BR-1	COUNTY OGLE	TOTAL SHEETS 130	SHEET NO. 122
CONTRACT NO. 64H57				
ILLINOIS FED. AID PROJECT				



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

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

MODEL: Definit
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 123 North 150 Street
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USER NAME =	Sta42
TUG PROJECT NO.	3119007-06
PLOT SCALE =	20,0000 * / in.
PLOT DATE =	6/22/2022
DESIGNED -	SJF
DRAWN -	
CHECKED -	SJF
DATE -	JUNE 22, 2022

REVISED -	
REVISED -	
REVISED -	
REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

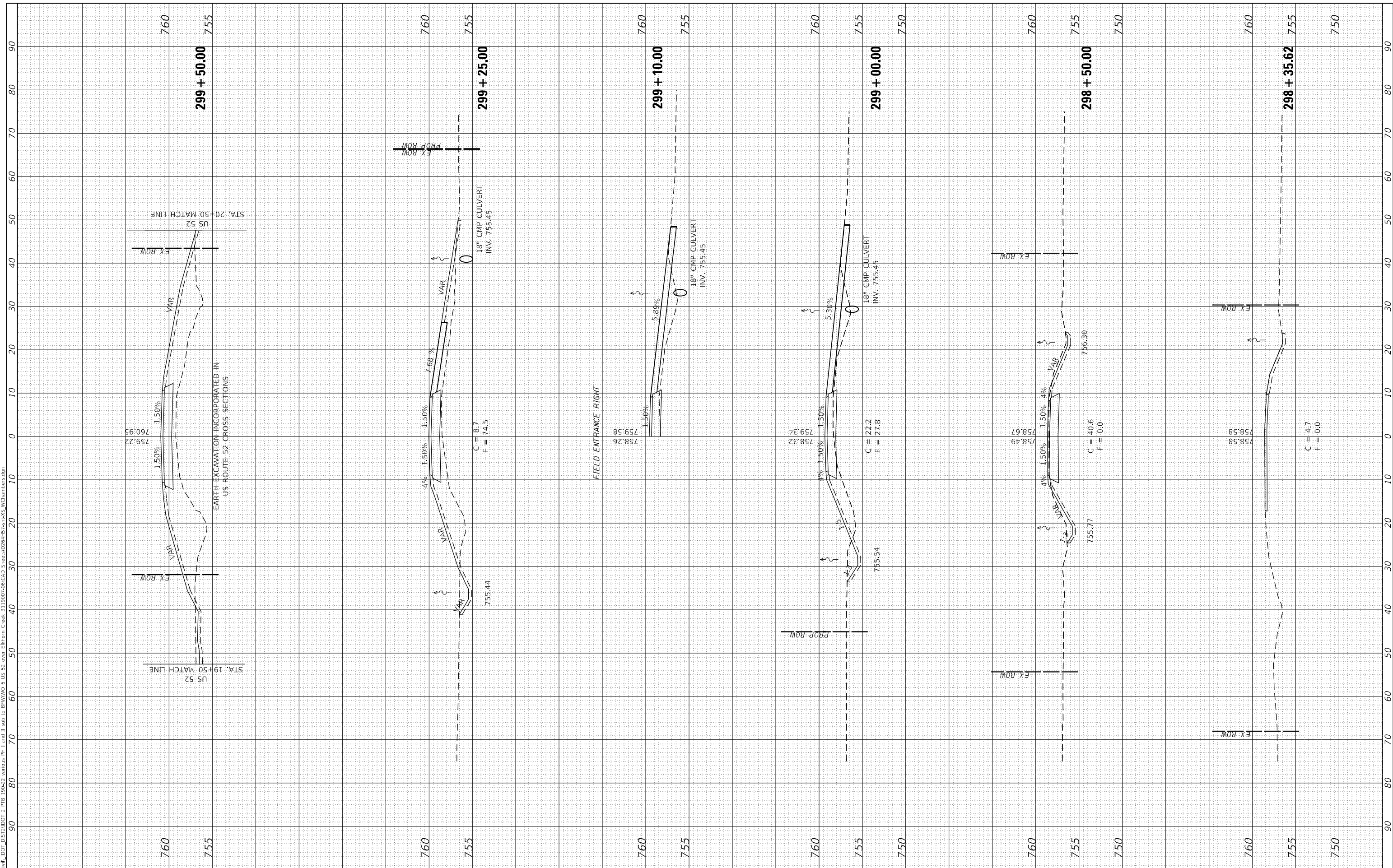
N. BROOKVILLE RD. CROSS SECTIONS
 SCALE: SHEET OF SHEETS STA. 197+50.00 TO STA. 198+10.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	123
CONTRACT NO. 64H57				
ILLINOIS FED. AID PROJECT				

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

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

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USER NAME	= Sta42
TUG PROJECT NO.	3119007-06
PLOT SCALE	= 20.0000 * / in.
PLOT DATE	= 6/22/2022

DESIGNED	- SJF
DRAWN	-
CHECKED	- SJF
DATE	- JUNE 22, 2022

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

W. CHAMBERS ST CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. 298+35.62 TO STA. 299+50.00

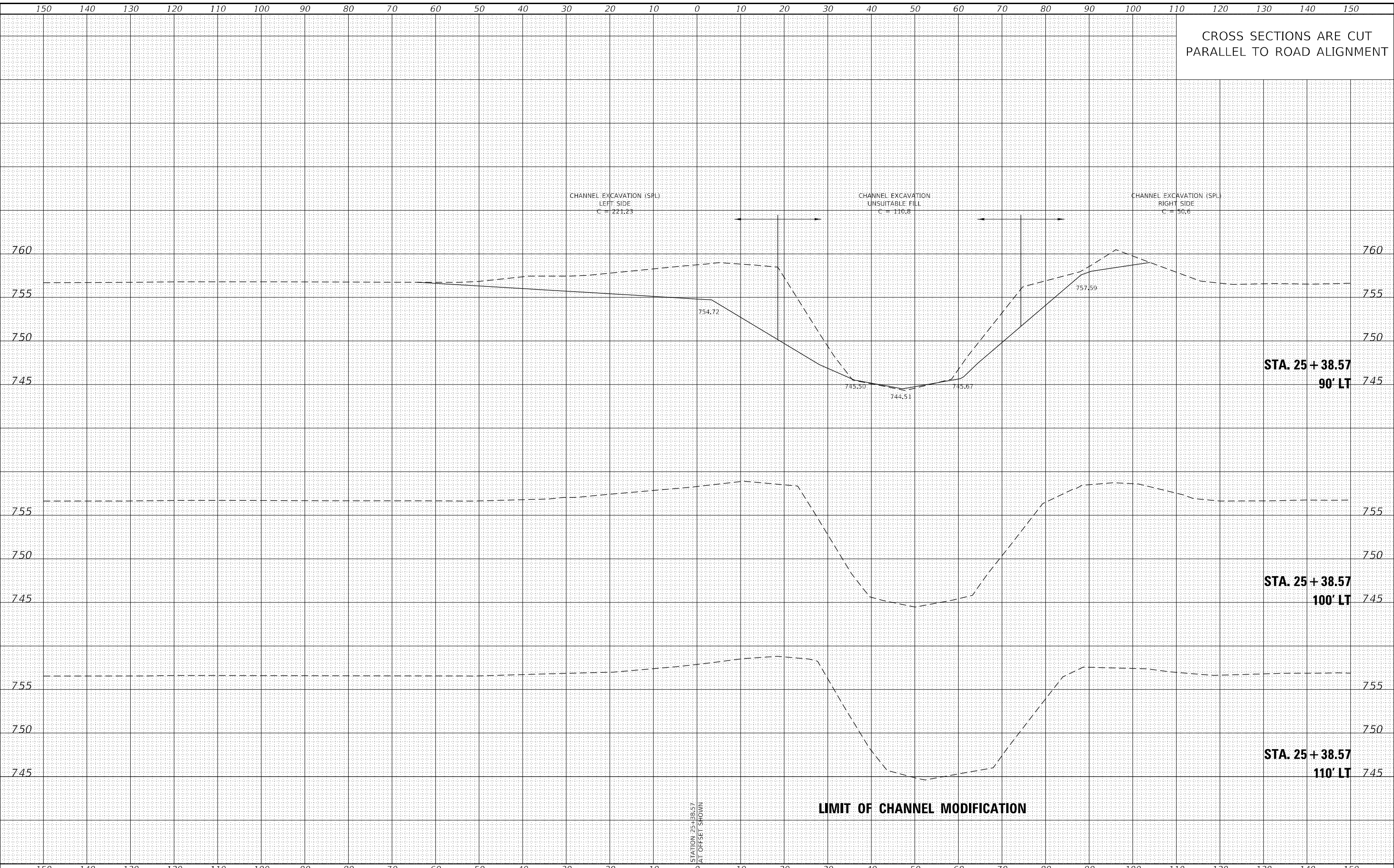
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	124
CONTRACT NO. 64H57				
ILLINOIS FED. AID PROJECT				

CROSS SECTIONS ARE CUT
PARALLEL TO ROAD ALIGNMENT

CHANNEL EXCAVATION (SPL)
LEFT SIDE
C = 221.23

CHANNEL EXCAVATION
UNSUITABLE FILL
C = 110.8

CHANNEL EXCAVATION (SPL)
RIGHT SIDE
C = 50.6



STA. 25 + 38.57
90' LT

STA. 25 + 38.57
100' LT

STA. 25 + 38.57
110' LT

LIMIT OF CHANNEL MODIFICATION

STATION 25+38.57
AT OFFSET SHOWN

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

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

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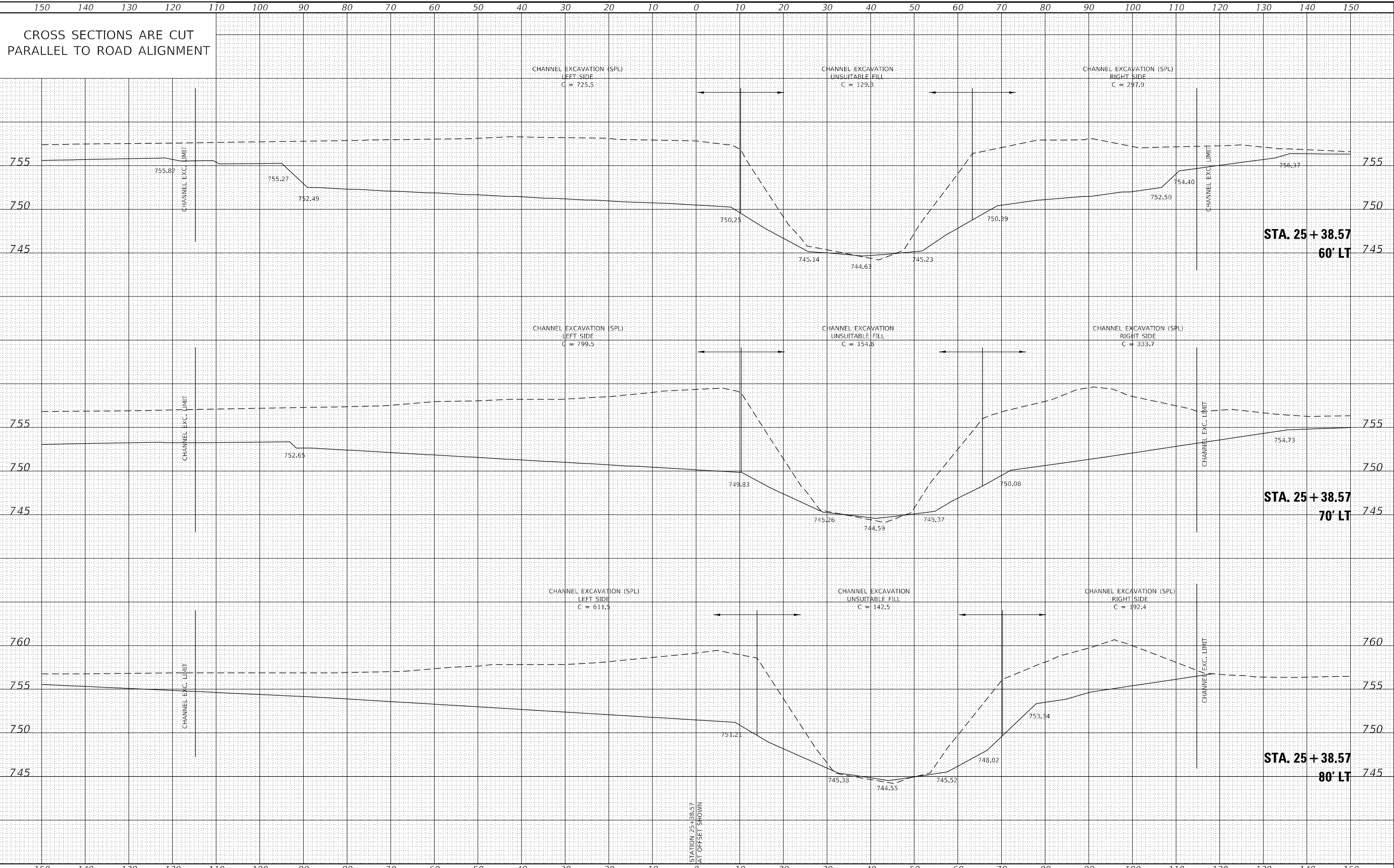
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PLOT SCALE	= 20,0000 * / in.	CHECKED	- SJF	REVISED	-
PLOT DATE	= 6/22/2022	DATE	- JUNE 22, 2022	REVISED	-

STATE OF ILLINOIS
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US ROUTE 52 OVER ELKHORN CREEK
CHANNEL CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	125
ILLINOIS FED. AID PROJECT			CONTRACT NO. 64H57	



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

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

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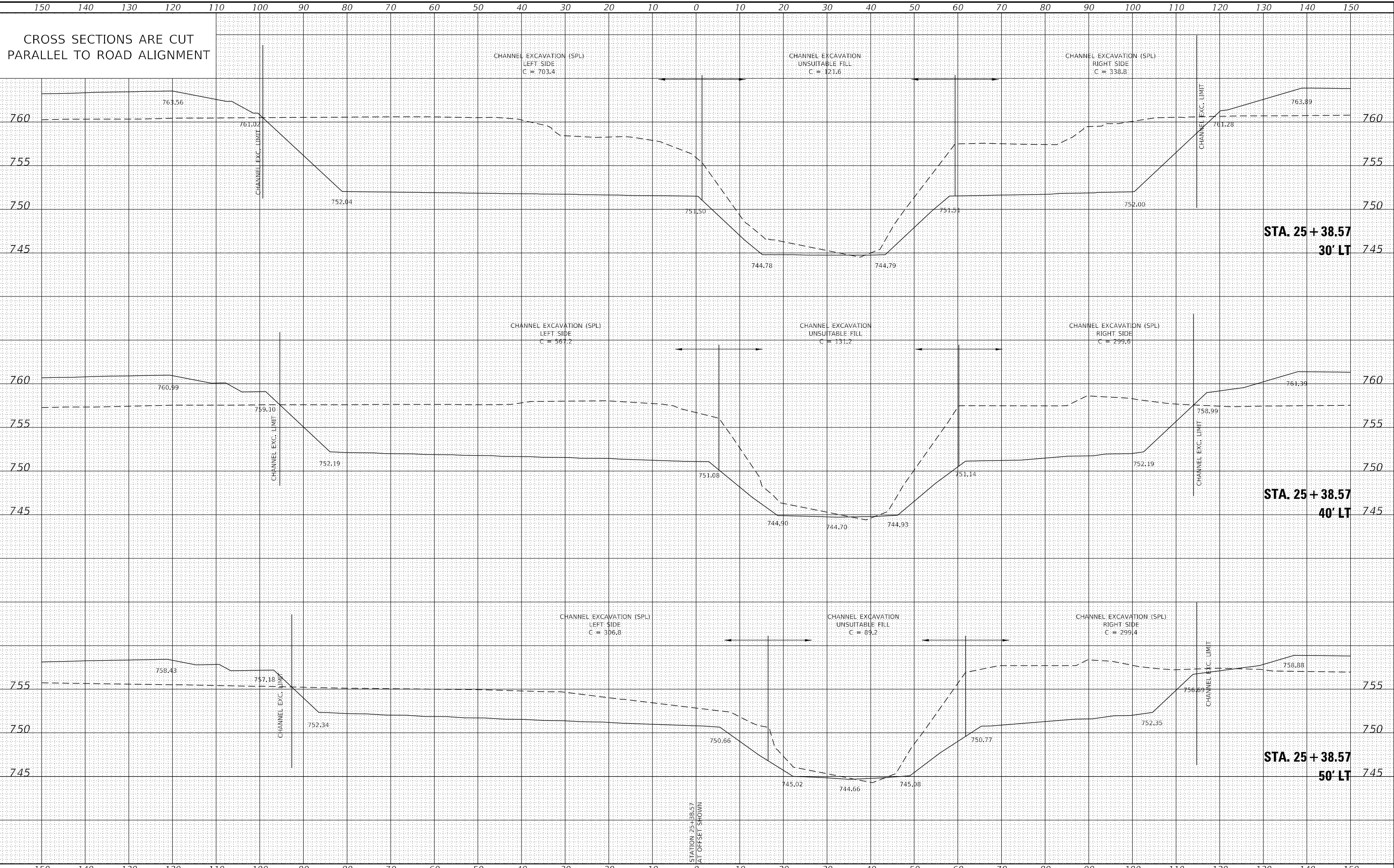
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PLOT SCALE	= 20,0000 * / in.
PLOT DATE	= 6/22/2022
DESIGNED	- TLW
DRAWN	- TLW
CHECKED	- SJF
DATE	- JUNE 22, 2022
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 52 OVER ELKHORN CREEK
CHANNEL CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	126
CONTRACT NO. 64H57				
ILLINOIS FED. AID PROJECT				



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

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

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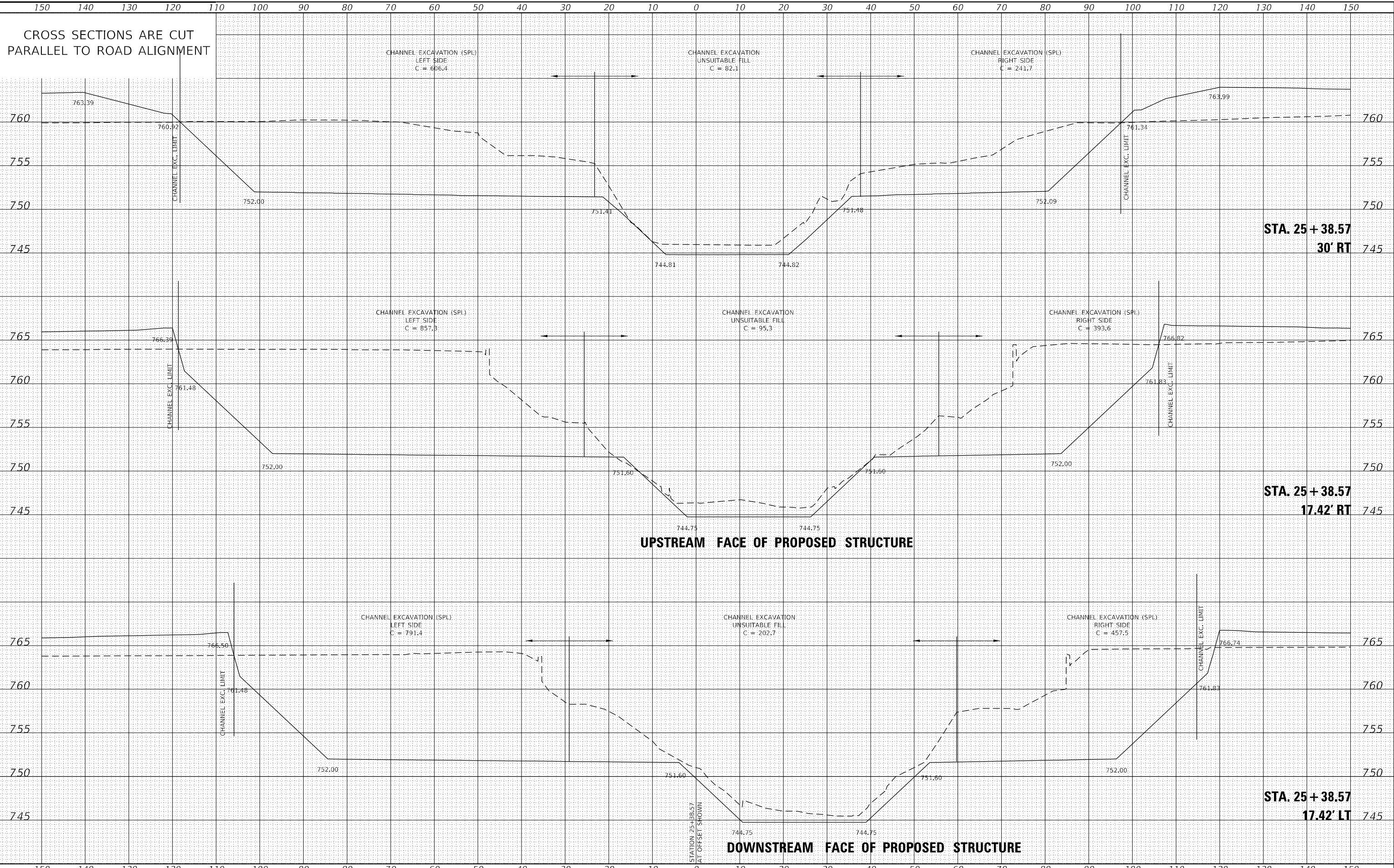
The Upchurch Group
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USER NAME	= Sta42
TUG PROJECT NO.	3119007-06
PLOT SCALE	= 20,0000 * / in.
PLOT DATE	= 6/22/2022
DESIGNED	- TLW
DRAWN	- TLW
CHECKED	- SJF
DATE	- JUNE 22, 2022
REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 52 OVER ELKHORN CREEK	
CHANNEL CROSS SECTIONS	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	127
				CONTRACT NO. 64H57
				ILLINOIS FED. AID PROJECT



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

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

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USER NAME	= Sta42
TUG PROJECT NO.	3119007-06
PLOT SCALE	= 20,0000 * / in.
PLOT DATE	= 6/22/2022
DESIGNED	- TLW
DRAWN	- TLW
CHECKED	- SJF
DATE	- JUNE 22, 2022
REVISED	-
REVISED	-
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REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 52 OVER ELKHORN CREEK
CHANNEL CROSS SECTIONS

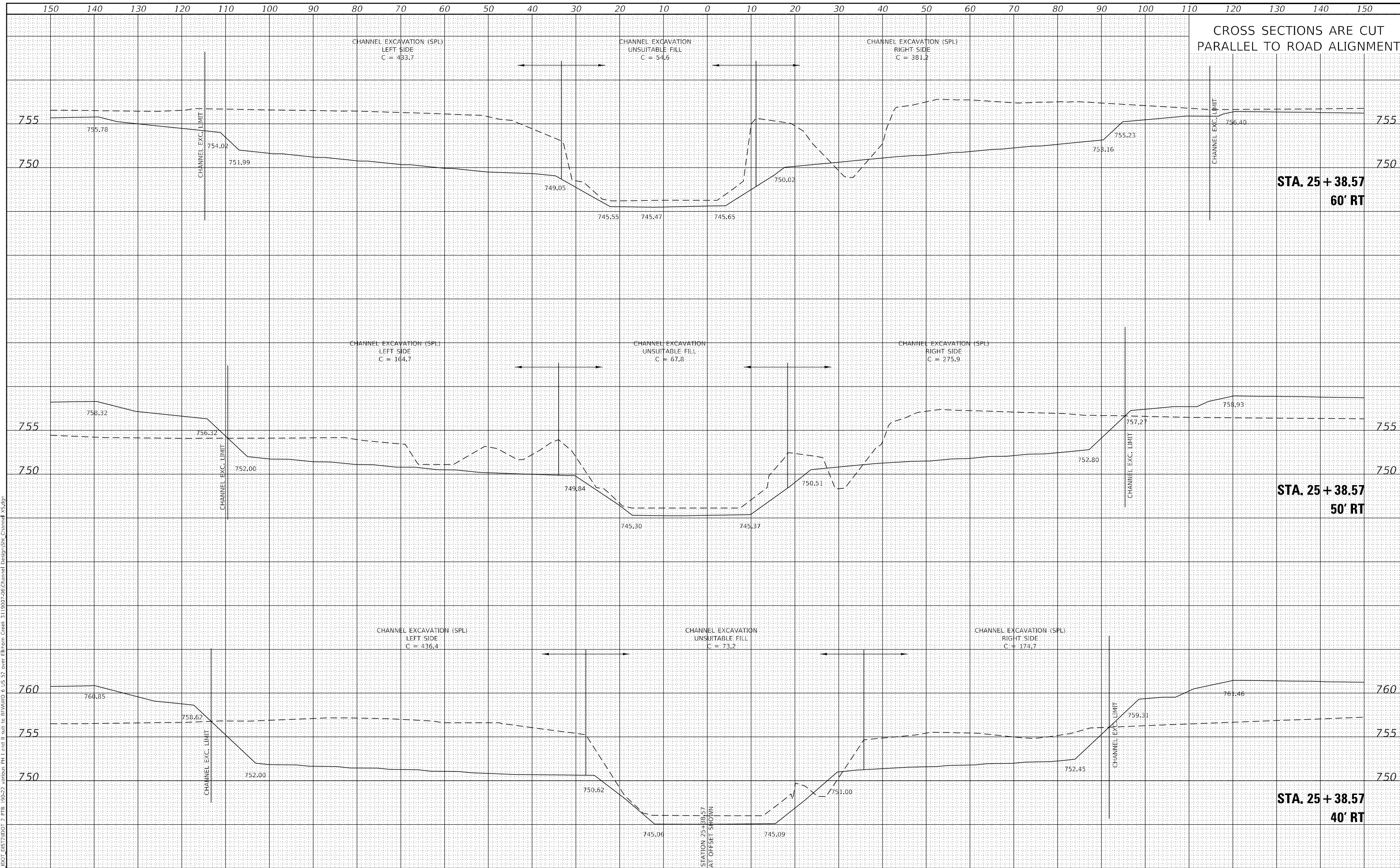
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	128
			CONTRACT NO. 64H57	
ILLINOIS FED. AID PROJECT				

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

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

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



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architects engineers surveyors

Professional Design
Firm Certification
License No. 184-003401

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USER NAME	= Sta42
TUG PROJECT NO.	3119007-06
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PLOT DATE	= 6/22/2022
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REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US ROUTE 52 OVER ELKHORN CREEK
CHANNEL CROSS SECTIONS**

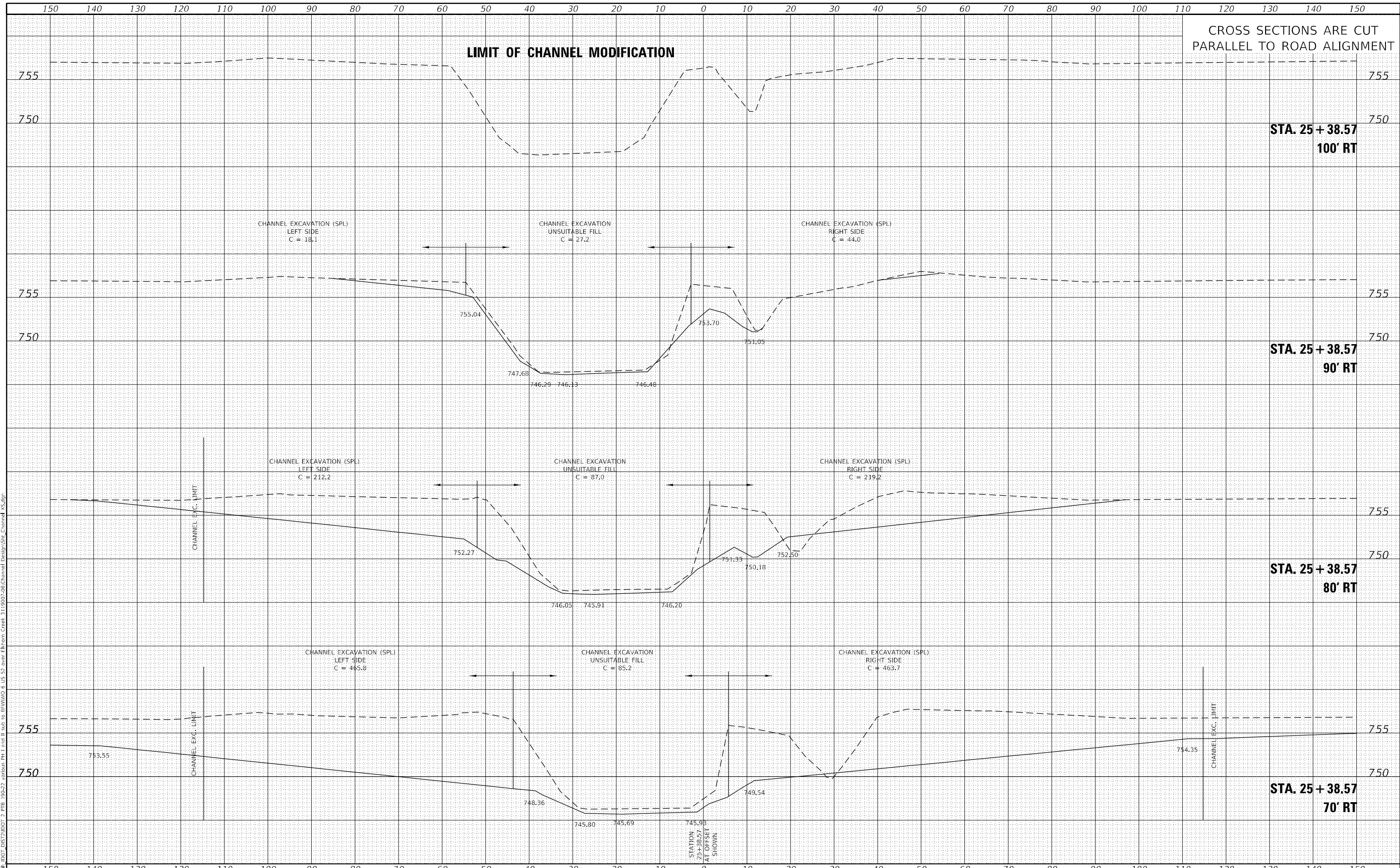
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	129
CONTRACT NO. 64H57				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
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NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED

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

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REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 52 OVER ELKHORN CREEK
CHANNEL CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2079	16BR-1	OGLE	130	130
CONTRACT NO. 64H57				
ILLINOIS FED. AID PROJECT				