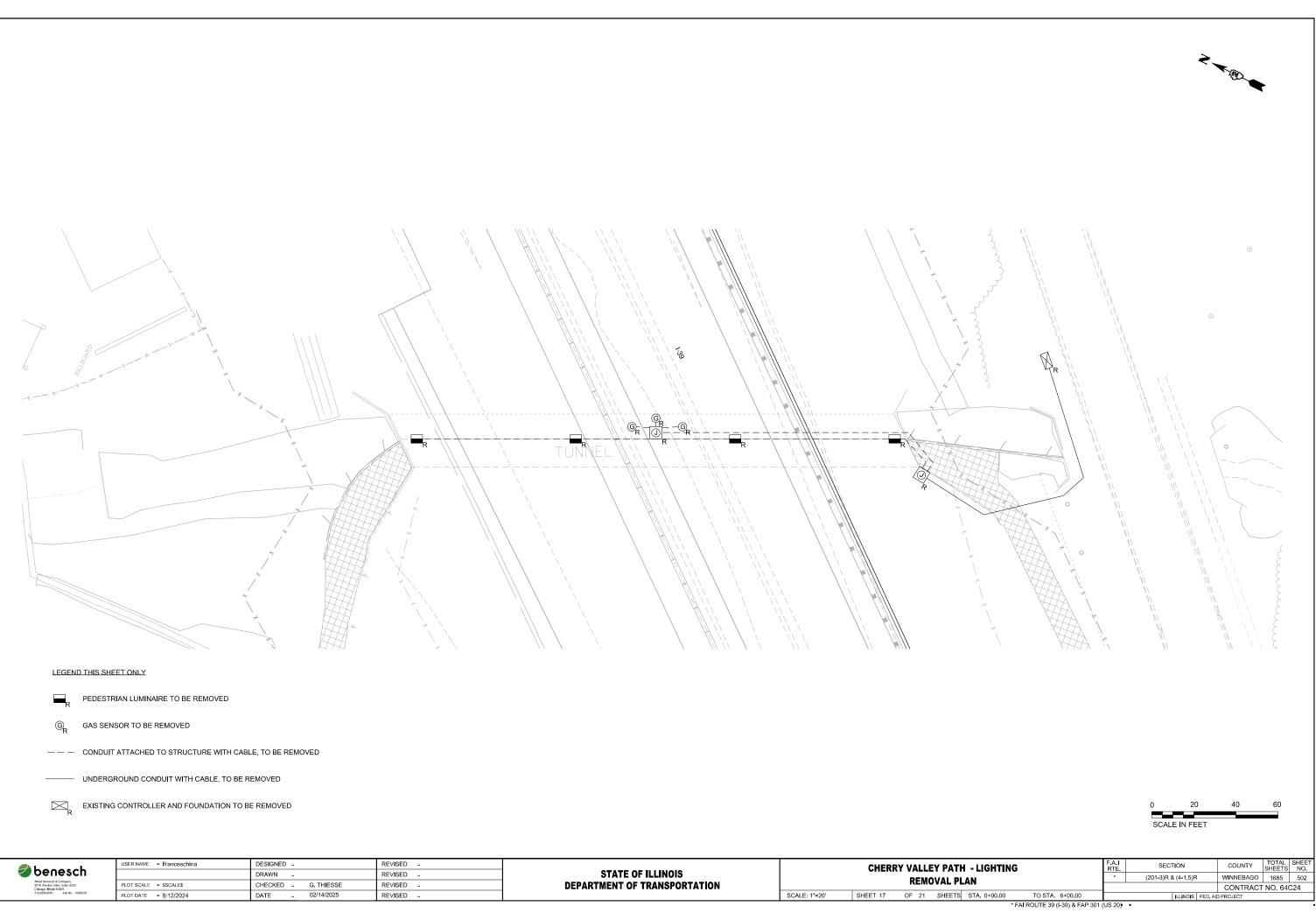
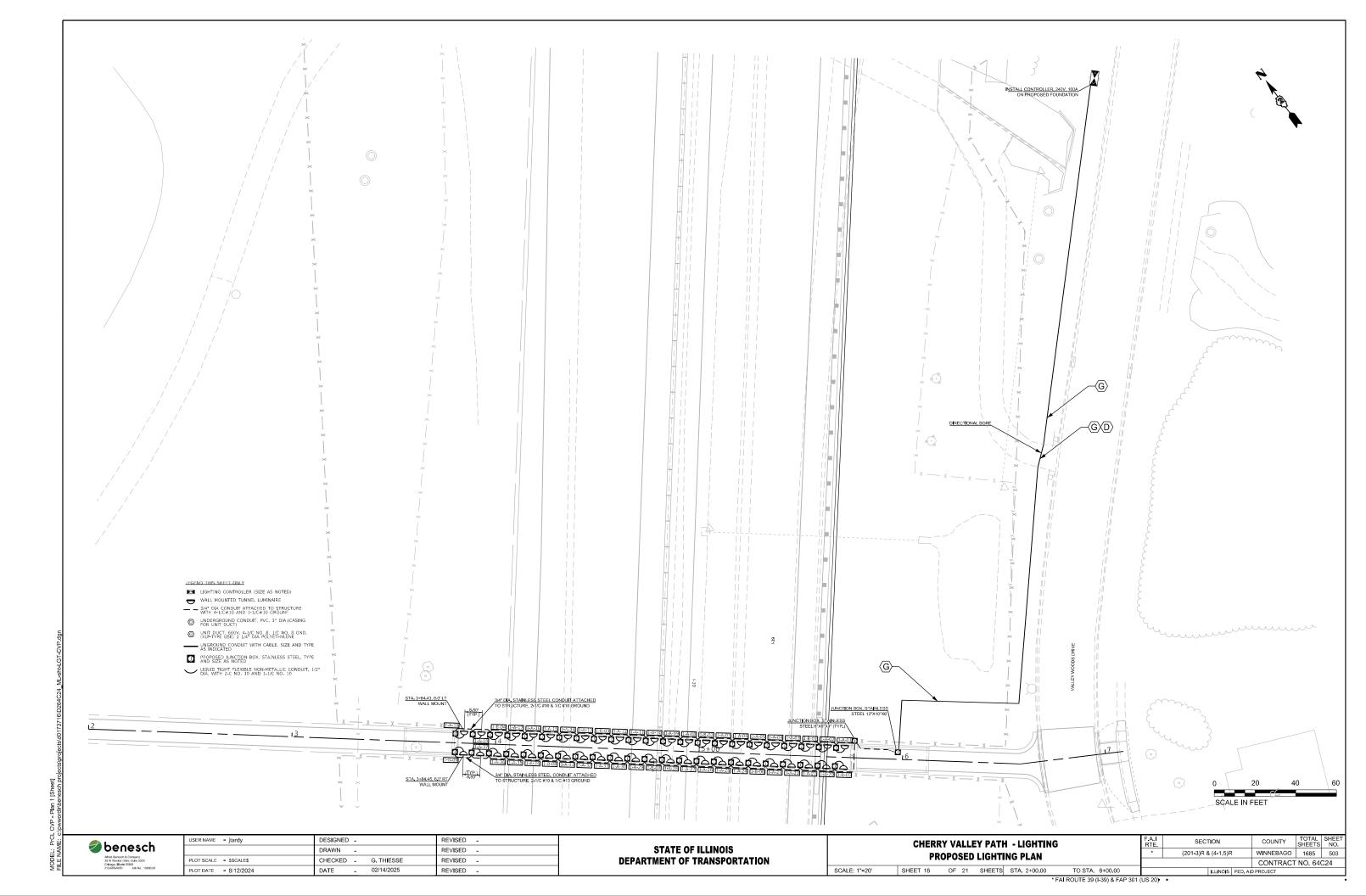
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Date 01/25/24	Contract Num	ber	Section Nur	nber	Coun			
			(201 <b>-</b> 3)K	Municipality	vvin	nebago		
Marked Route				Municipality	CHER	RY VALLEY		
<b>Roadway</b> Lane Width	# of Lanes N	ledian Width	I.E.S. Sur	face Classification	Q-Zero	Value		
48'	4 2	27'	R3		0.07			
Structure	J L							
	ht Arm Length	Set-Back	Number of L (Highmast &	uminaires Sign Lighting Onl	у)			
22.5'	N/A	1'	N/A					
Luminaire								
Description				I.E.S. Lateral Dis	tribution		I.E.S.	Distribution (
UNDERPAS	S LUM., LED	), DESIGN	IATION E	MEDIUM			TYPE III	
Total Light Los	s Factor (LLF)	B-U-G R	ating	Shiel	ds			ning Protocol
0.7		U=0		0			0	
Layout								
Spacing (to Ne			opposite, Stag	gered, 1 Sided, or	Median	)		
60'	OP	POSITE						
Performance	•							
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1.0			3.0 					
Average Lumir N/A	ance, Lave (cd/m	N/A	ty Ratio, L <sub>AVE</sub> /			atio, Lmax/Lmin	N/A	ig Luminance R
Light Tressp		Max Hari-	rontal Illumina	ance at ROW, E⊦		Max. Vertical III	minanaa	
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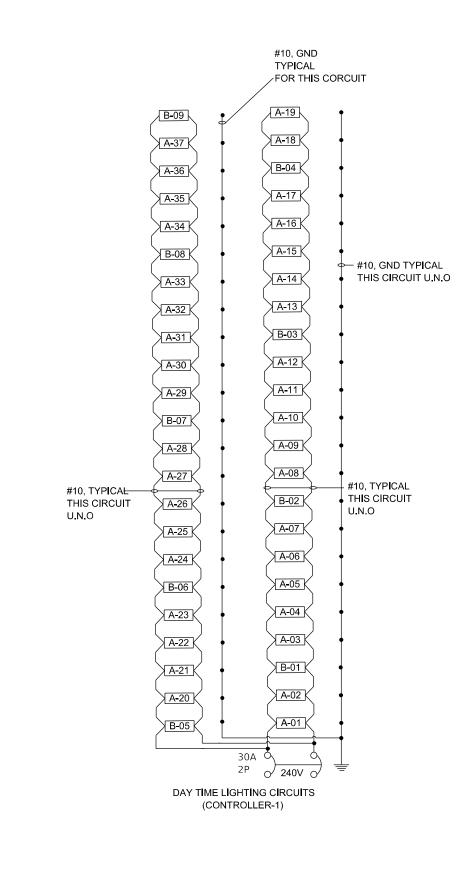
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Alfred Benesch & Company 35 W Wacker Drive, Saite 3300 Chicago, Illinois 60601 312-865-0450 Job No, 10600.00	PLOT SCALE = \$SCALE\$	CHECKED - G. THIESSE	REVISED -	DEPARTMENT OF TRANSPORTATION			PERFORI	MANCE	IA
312-565-0450 Job No. 10800.00	PLOT DATE = 8/12/2024	DATE _ 02/14/2025	REVISED -		SCALE:	SHEET 16	OF 21	SHEETS	ST
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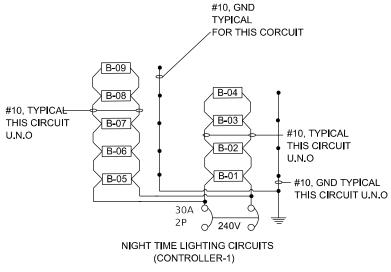
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		DRAWN -	REVISED -	STATE OF ILLINOIS	1	OTENA			
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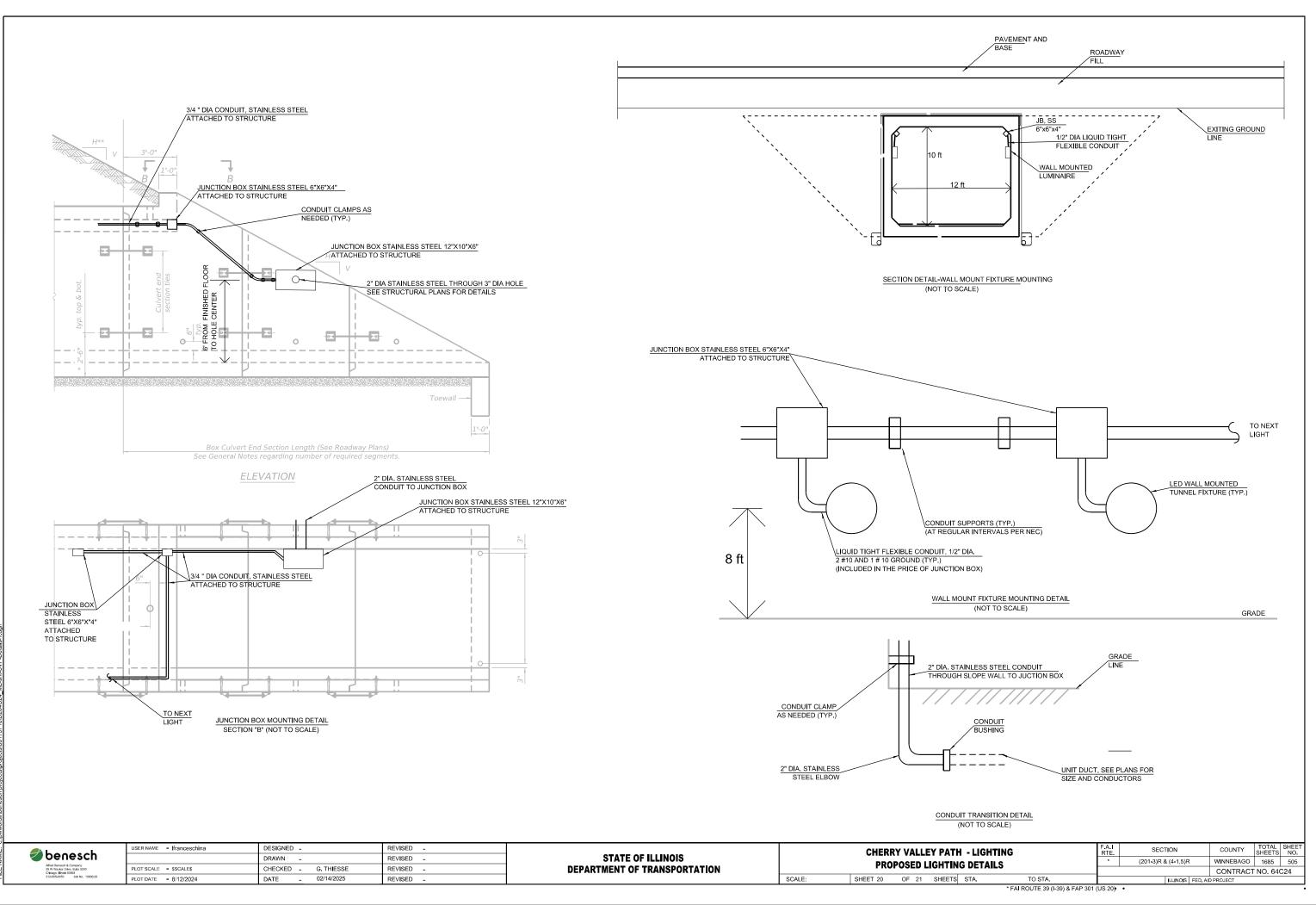


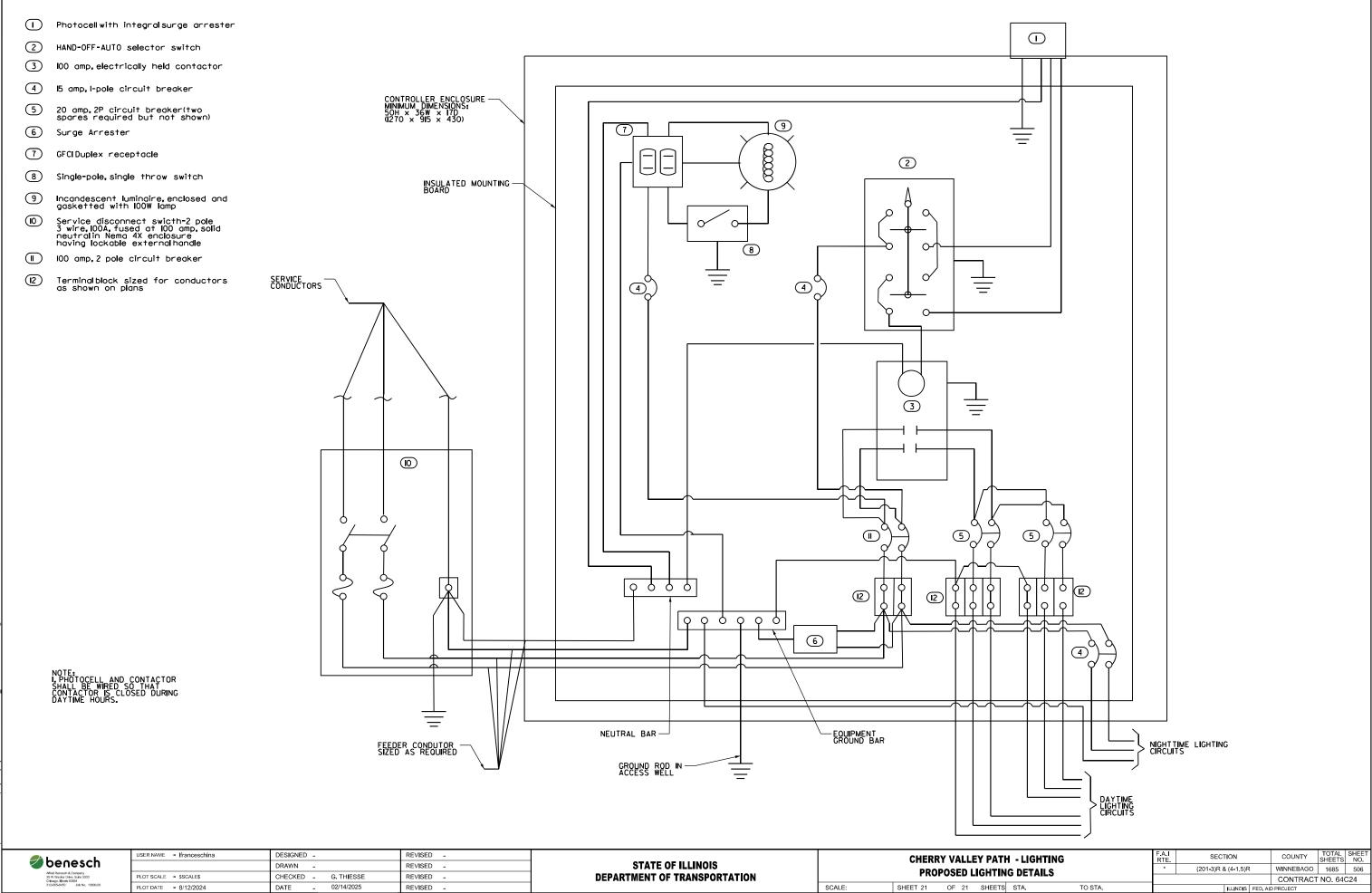
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LED WALL MOUNT TUNNEL LUMINAIRE GROUND CONNECTION AT EACH LUMINAIRE ٠ Ŧ GROUND ROD

1. BOND EACH JUNCTION BOX TO EQUIPMENT GROUNDING CONDUCTOR.





## SCHEDULE OF INTELLIGENT TRANSPORTATION SYSTEM (ITS) QUANTITIES IDOT

1			1
PAY ITEM NO.	DESCRIPTION	UNIT	TOTAL
81028260	UNDERGROUND CONDUIT, GALVANIZED STEEL, 6" DIA	FOOT	1349
81028750	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA	FOOT	1470
81101205	CONDUIT ATTACHED TO STRUCTURE, 6"DIA., PVC COATED GALVANIZED STEEL	FOOT	400
81300948	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 24" X 24" X 10"	EACH	4
81400100	HANDHOLE	EACH	2
81702130	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO.6	FOOT	1470
81702140	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO.4	FOOT	2940
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	120
89502380	REMOVE EXISTING HANDHOLE	EACH	1
X0323917	CABINET, MODEL 334	EACH	1
X0325485	TRUSS MOUNTED LED DYNAMIC MESSAGE SIGN	EACH	1
X0327616	MAINTAINING ITS DURING CONSTRUCTION	CAL MO	36
X1400282	POLYETHYLENE DUCT, 1 1/4" DIA	FOOT	53808
X1400459	DYNAMIC MESSAGE SIGN REMOVAL - IDOT	EACH	1
X6026627	VAULTS TO BE REMOVED	EACH	6
X8301804	REMOVAL OF TEMPORARY WOOD POLES AND FIBER OPTIC CABLE	LSUM	1
X8500102	MAINTENANCE OF EXISTING FIBER OPTIC CABLE (FOC) NETWORK	MONTH	32
X8710013	FIBER OPTIC CABLE IN CONDUIT, 12 FIBERS, SINGLE MODE	FOOT	170
X8710023	FIBER OPTIC CABLE IN CONDUIT, 96 FIBERS, SINGLE MODE	FOOT	45,195
X8710306	FIBER OPTIC CABLE SPLICE - MAINLINE	EACH	9
X8710314	FIBER OPTIC SPLICE-LATERAL	EACH	2
X8710318	FIBER OPTIC UTILITY MARKER	EACH	14
X8950510	REMOVE FIBER OPTIC CABLE FROM CONDUIT	FOOT	7,310
Z0010614	CLEANING EXISTING MANHOLE OR HANDHOLE	EACH	3
Z0033052	COMMUNICATIONS VAULT	EACH	14

### SCHEDULE OF INTELLIGENT TRAFFIC SYSTEM (ITS) QUANTITIES TOLLWAY

PAY ITEM NO.	DESCRIPTION	UNIT	TOTAL
JS810826	UNDERGROUND CONDUIT, GALVANIZED STEEL, 6" DIA.	FOOT	180
JS817213	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	839
JS817214	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	FOOT	1,678
JT132040	DYNAMIC MESSAGE SIGN - TYPE 1	EACH	1
JT132050	DYNAMIC MESSAGE SIGN - TYPE 1 (TRAINING)	L SUM	1
JT132060	DYNAMIC MESSAGE SIGN - TYPE 1 (SPARE PARTS)	EACH	1
JT132112	REMOVE DYNAMIC MESSAGE SIGN CONTROLLER FOUNDATION	EACH	1
JT132114	REMOVE DYNAMIC MESSAGE SIGN - TYPE 1	EACH	1
JT132621	DMS ELECTRICAL WORK - TYPE 1	EACH	1
JT132800	REMOVE ITS POLE MOUNTED ENCLOSURE	EACH	1
JT132810	ITS POLE MOUNTED ENCLOSURE (CCTV OR MVDS)	EACH	1
JT132814	ITS DISCONNECT SWITCH ASSEMBLY	EACH	2
JT132820	CCTV CAMERA, ITS ASSEMBLY	EACH	1
JT132830	FIBER OPTIC COMMUNICATIONS, ITS ASSEMBLY	EACH	2
JT134002	MAINTAIN INTELLIGENT TRANSPORTATION SYSTEMS	CAL MO	36
JT134037	ITS ELEMENT SITE GROUNDING - POLE MOUNTED ASSEMBLY	EACH	1
JT135097	REMOVE CCTV CAMERA, POLE MOUNTED	EACH	1
JT160099	HANDHOLE FOR SINGLE MODE FIBER OPTIC CABLE, TORSION ASSIST, 48"X72"X36"	EACH	1
JT160217	LOCATE POST FOR FIBER OPTIC CABLE	EACH	2
JT160226	SINGLE MODE FIBER OPTIC CABLE REMOVAL, NO SALVAGE	FOOT	267
JT810873	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, SDR 11, 1 1/4" DIA.	FOOT	515
JT810876	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, SDR 11, 2" DIA.	FOOT	839
JT830051	GROUND MOUNTED LIGHT POLE, GALVANIZED STEEL, 50 FT., WITHOUT MAST ARM	EACH	1
JT836018	ITS ELEMENT POLE FOUNDATION STEEL HELIX (10 FT)	EACH	1
JT836028	ITS CONCRETE SERVICE PAD, TYPE B	EACH	1
JT901056	LOCATE TRACER WIRE	FOOT	329

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## **GENERAL NOTES**

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Alfred Benesch & Company 35 W Wacker Drive, Suite 3300 Chicago, Illinois 60601 312-665-0450 Job No. 10800.00	PLOT SCALE = \$SCALE\$	CHECKED - G.THIESSE	REVISED -	DEPARTMENT OF TRANSPORTATION				1-28			. , ,	CONTRACT NO. 64C24
312-565-0450 Job No. 10800.00	PLOT DATE = 2/14/2025	DATE _ 02/14/2025	REVISED -		SCALE:	SHEET 1	OF	SHEETS STA.	TO STA.		ILLINOIS FED.	AID PROJECT
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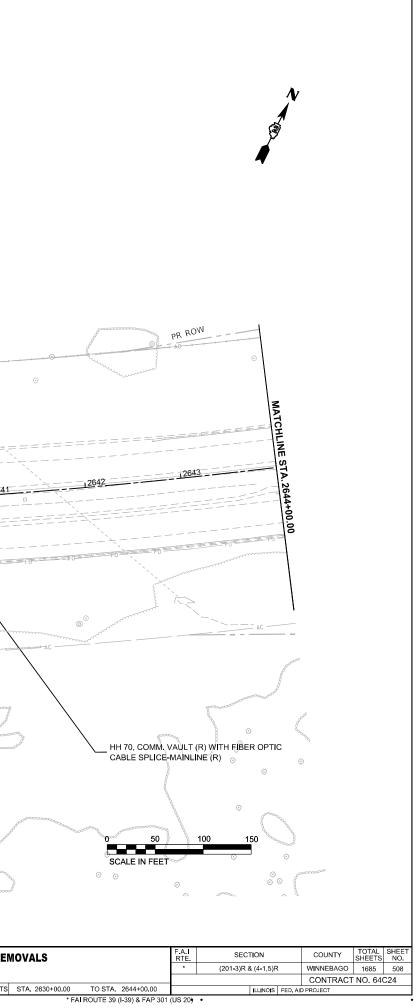
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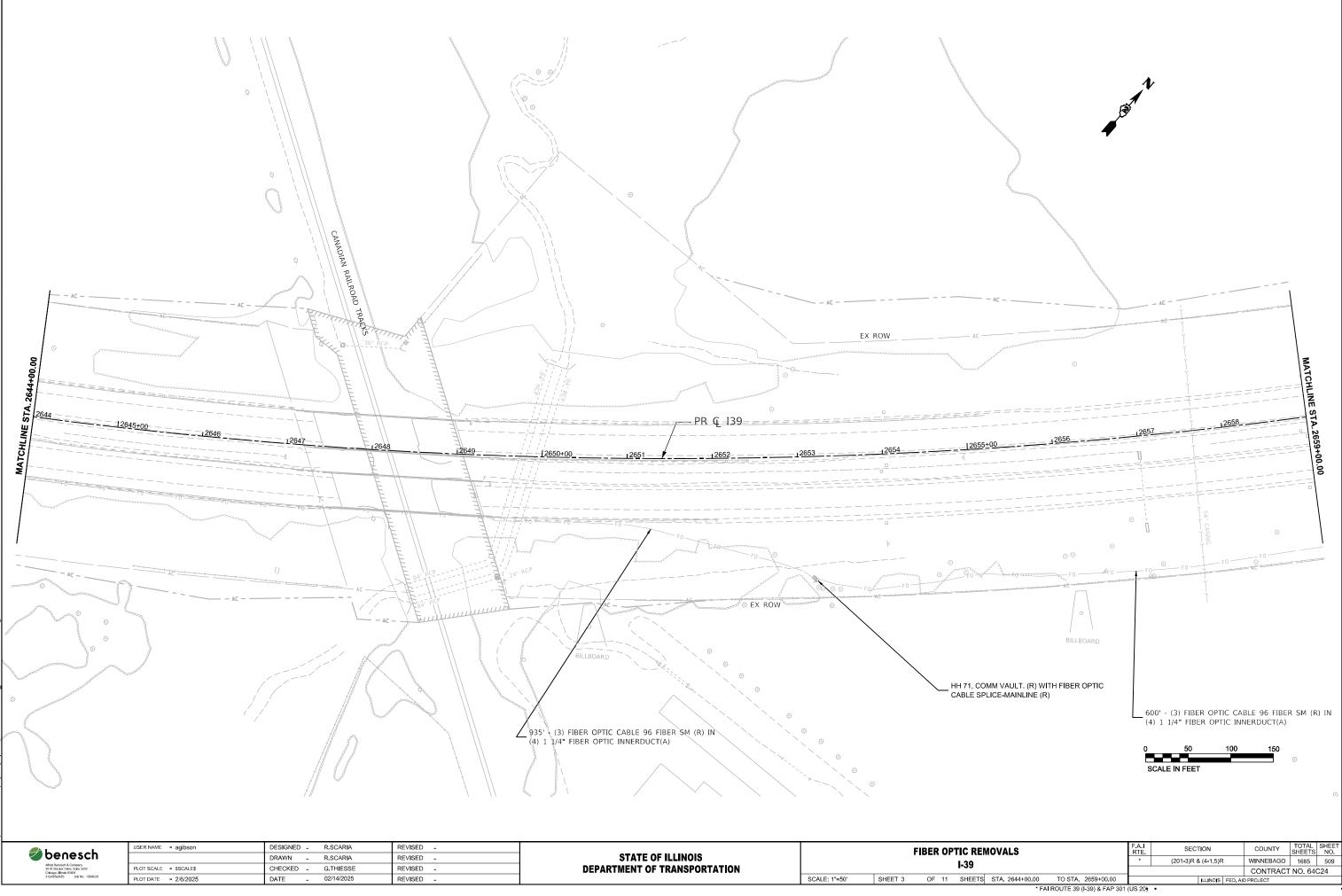
- PROPOSED
- REMOVED
- ABANDON IN PLACE
- FO------ PROPOSED UNDERGROUND FIBER OPTIC CABLE IN DUCT, TYPE AND SIZE AS NOTED
  - EXISTING UNDERGROUND FIBER OPTIC DUCT
- - PROPOSED UNDERGROUND ELECTRICAL CABLE IN CONDUIT, TYPE AND SIZE AS NOTED
  - TEMPORARY WOOD POLE, 50 FT., CLASS 4
  - PROPOSED COMMUNICATION VAULT
  - EXISTING COMMUNICATION VAULT
  - GALVANIZED RIGID STEEL CONDUIT PUSHED (P), TYPE AND SIZE AS NOTED
  - PROPOSED JUNCTION BOX, STAINLESS STEEL, TYPE AND SIZE AS NOTED
  - PROPOSED ELECTRICAL HANDHOLE
  - PROPOSED CCTV CAMERA
  - PROPOSED DMS CABINET
  - DMS CABINET TO BE REMOVED
  - PROPOSED DMS SIGN
  - EXISTING DMS SIGN TO BE REMOVED
  - CCTV CAMERA TO BE REMOVED
  - PROPOSED DISCONNECT SWITCH
  - EXISTING ELECTRICAL SERVICE

- 1. THE CONTRACTOR SHALL TAKE RESPONSIBILITY FOR THE MAINTENANCE OF THE FIBER OPTIC CABLE FOR THE DURATION OF THE PROJECT.
- 2. THE CONTRACTOR SHALL PROVIDE A 10 DAY NOTICE PRIOR TO ANY SERVICE INTERRUPTION FOR THE SPLICING OF NEW CABLE INTO THE SYSTEM.
- 3. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF HANDHOLES AND FIBER OPTIC CABLE PRIOR TO CONSTRUCTION OF THE JOB.
- 4. ALL SERVICE OUTAGES FOR SPLICING IN OF NEW CABLE SHALL BE LESS THAN 2 HOURS.
- 5. THERE EXISTS ENVIRONMENTALLY SENSITIVE AREAS ALONG THIS JOB. CARE MUST BE TAKEN NOT TO REMOVE PLANT LIFE FROM THESE AREAS.
- 6. THERE SHALL BE 200 FEET OF 96 SM FIBER OPTIC CABLE SLACK, PER CABLE, IN EACH COMMUNICATION VAULT. THERE SHALL BE 50 FEET OF FIBER OPTIC CABLE SLACK, PER CABLE, IN ALL JUNCTION BOXES.
- 7. THE CONTRACTOR SHALL EXERCISE CARE WITH THE INSTALLATION OF UNDERGROUND EQUIPMENT AS THERE ARE EXISTING PRIVATELY OWNED UTILITIES WITHIN THE PROJECT LIMITS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO CONTACT ANY UTILITIES IN THE WORK ZONE AND REQUEST UTILITY LOCATES.
- 8. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING STATE OWNED LIGHTING, TRAFFIC SIGNALS AND/OR FIBER OPTIC CABLE.
- 9. THE CONTRACTOR SHALL BE AWARE OF THE DOCUMENTATION REQUIREMENTS WHICH REQUIRE GPS DATA ACQUISITION.
- 10. ALL EXISTING FIBER OPTIC CABLE CALLED TO BE EITHER REMOVED OR ABANDONED SHALL REMAIN IN PLACE AND OPERATIONAL UNTIL PROPOSED UNDERGROUND FIBER OPTIC CABLE IS INSTALLED AND CUT OVER. TEMPORARY FIBER INSTALLATIONS SHALL ALSO REMAIN IN PLACE UNTIL UNDERGROUND FIBER OPTIC CABLES ARE INSTALLED AND FULLY OPERATIONAL.
- 11. ALL PROPOSED FIBER SHALL HAVE A MINIMUM BENDING RADIUS OF 24".
- 12. INCASE OF ANY ACCIDENTAL DISRUPTION IN SERVICE TO THE FIBER OPTIC CABLE DURING CONSTRUCTION, THE CONTRACTOR SHALL CONTACT THE 24 HOUR EMERGENCY CONTACT NUMBER AT 312-814-3648.

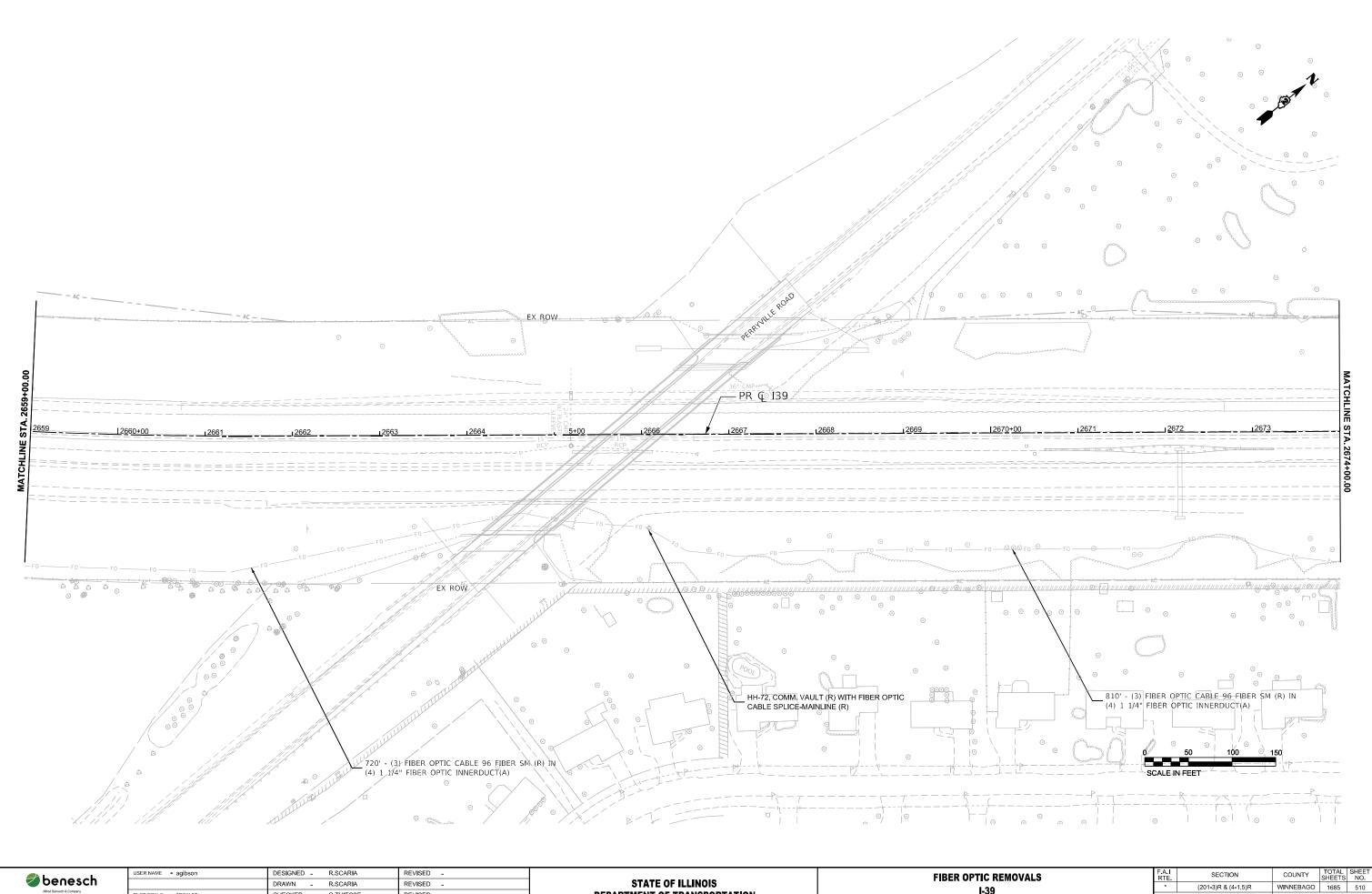
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	64B13 CONTRA INTERCHANGE	CT. REFER SYSTEM PLANS.			
		CABLE SPLICE-MAINLINE (R) OPTIC CABLE INSTALLED UNDE		1230' - (3) FIBER OPTIC CABLE 96 FIBER SM (R) IN (4) 1 1/4" FIBER OPTIC INNERDUCT(A)	
		_ HH 69, COMM. VAULT (R) WITH	FIBER OPTIC		
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NOTES: 1. REFER TO CONTRACT 64B13 FIBER PLANS FOR PROPOSED UNDERGROUND FIBER DUCT, SOUTH OF COMMUNICATION VAULT. 2. CONTRACTOR SHALL MAKE SURE THAT THE PROPOSED FIBER IS INSTALLED AND OPERATIONAL BEFORE THE EXISTING FIBER IS REMOVED.(TYP.)



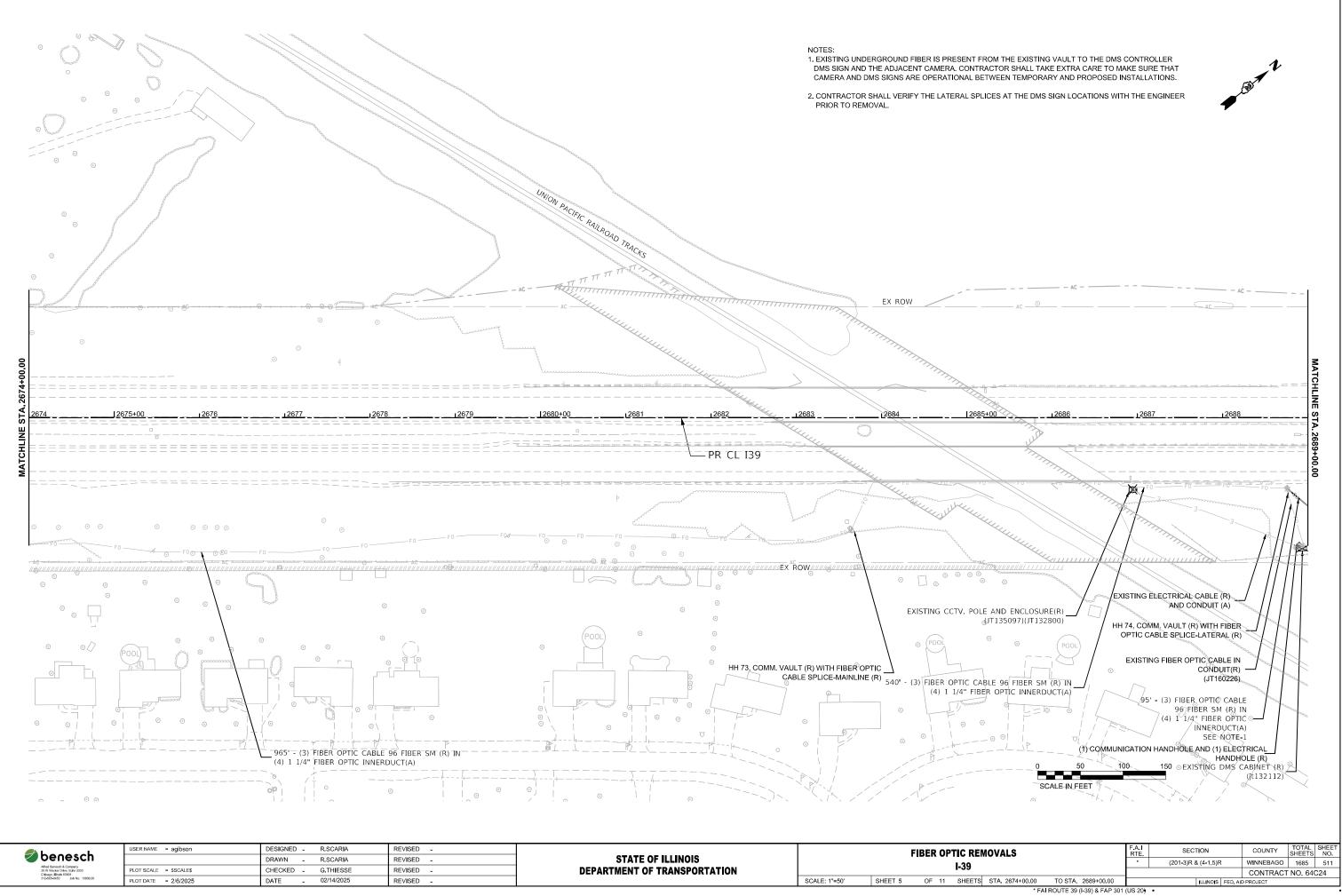


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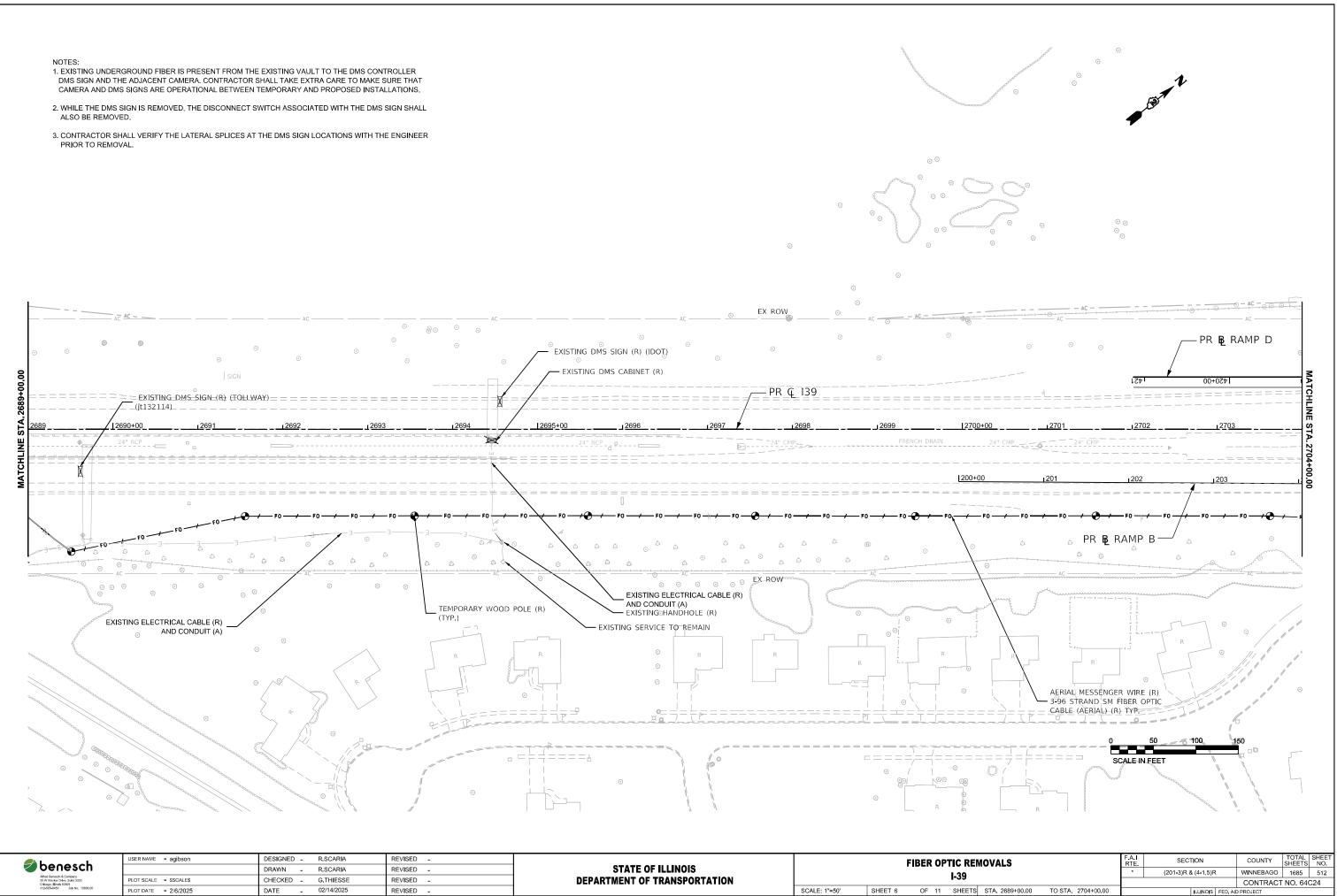


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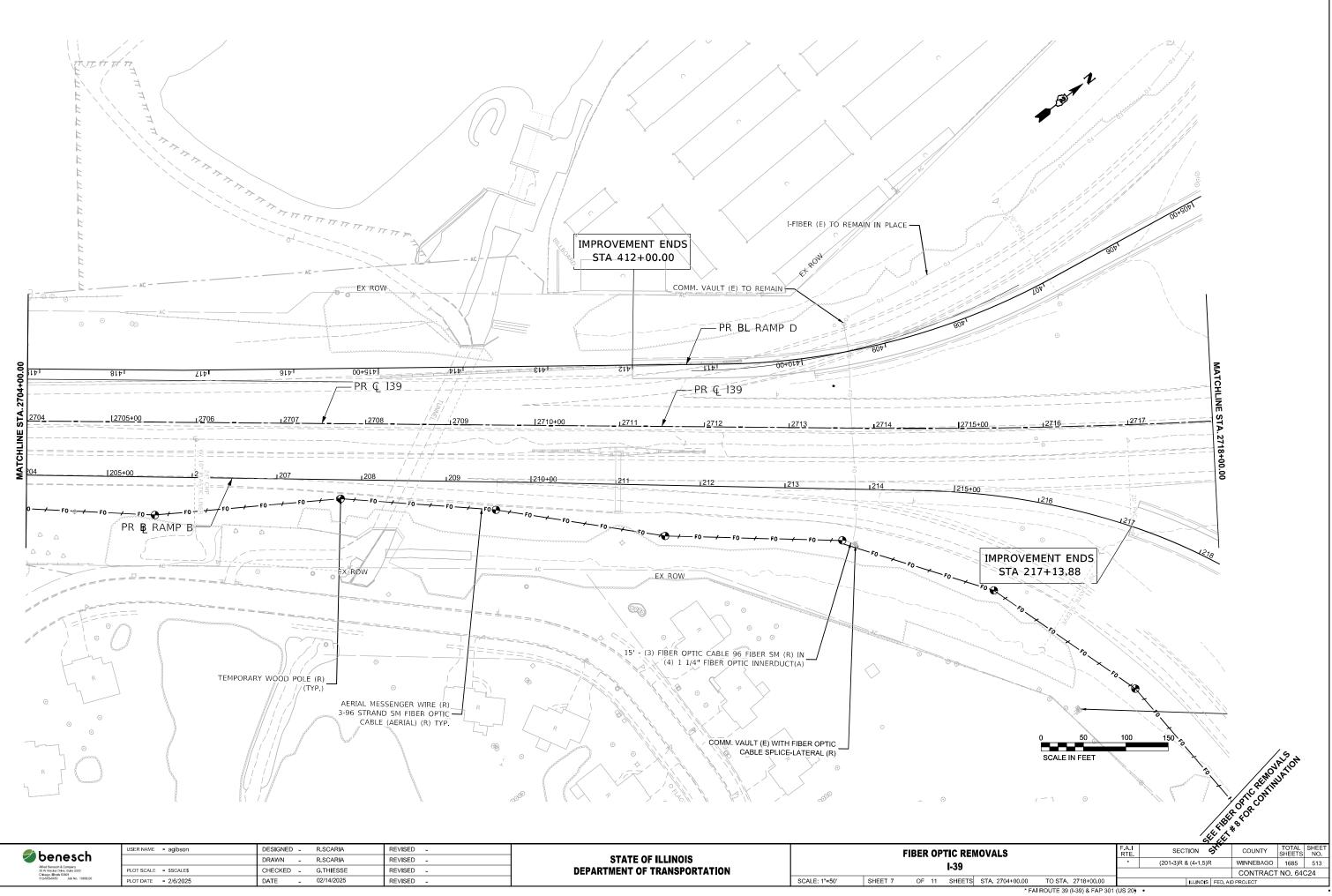
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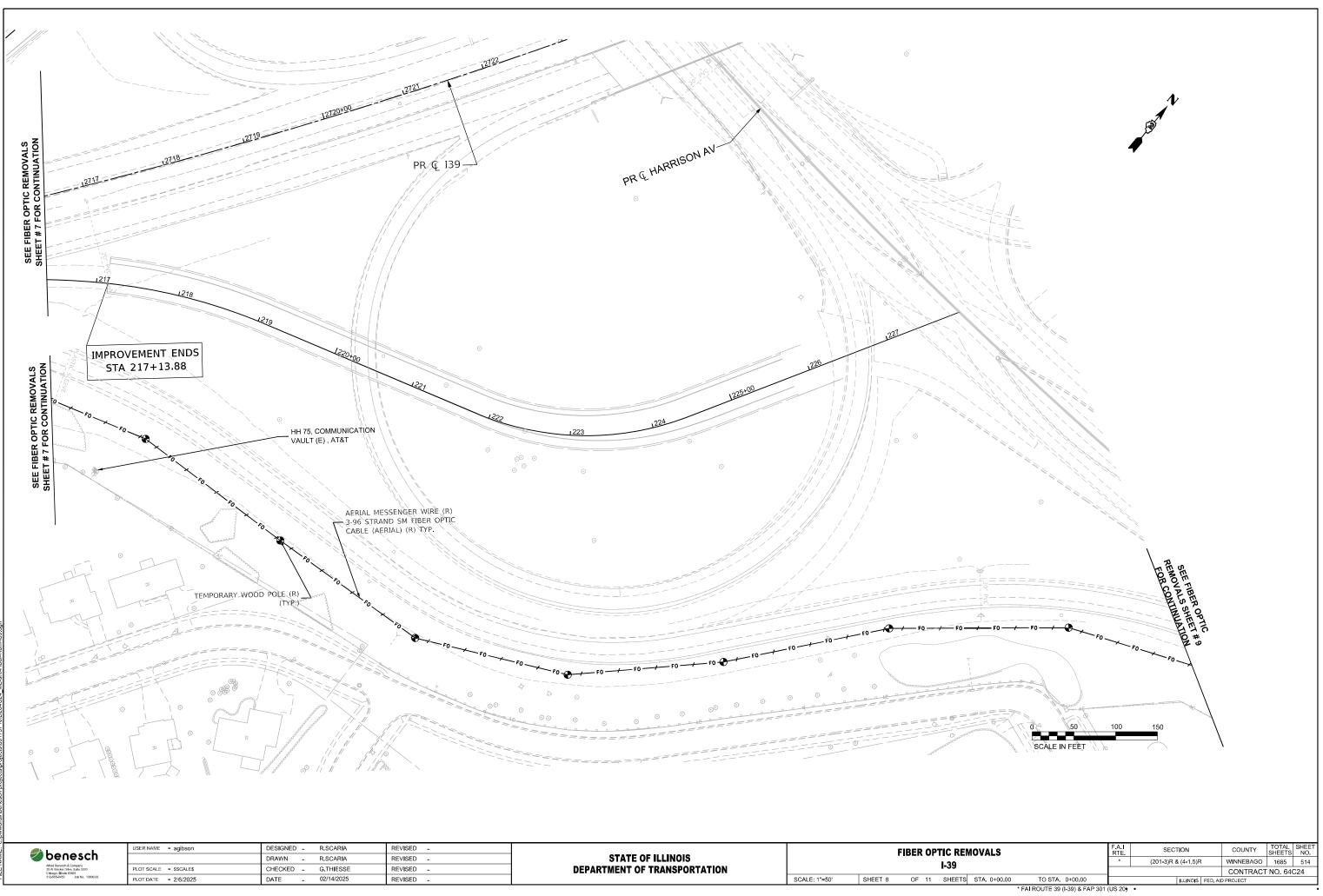
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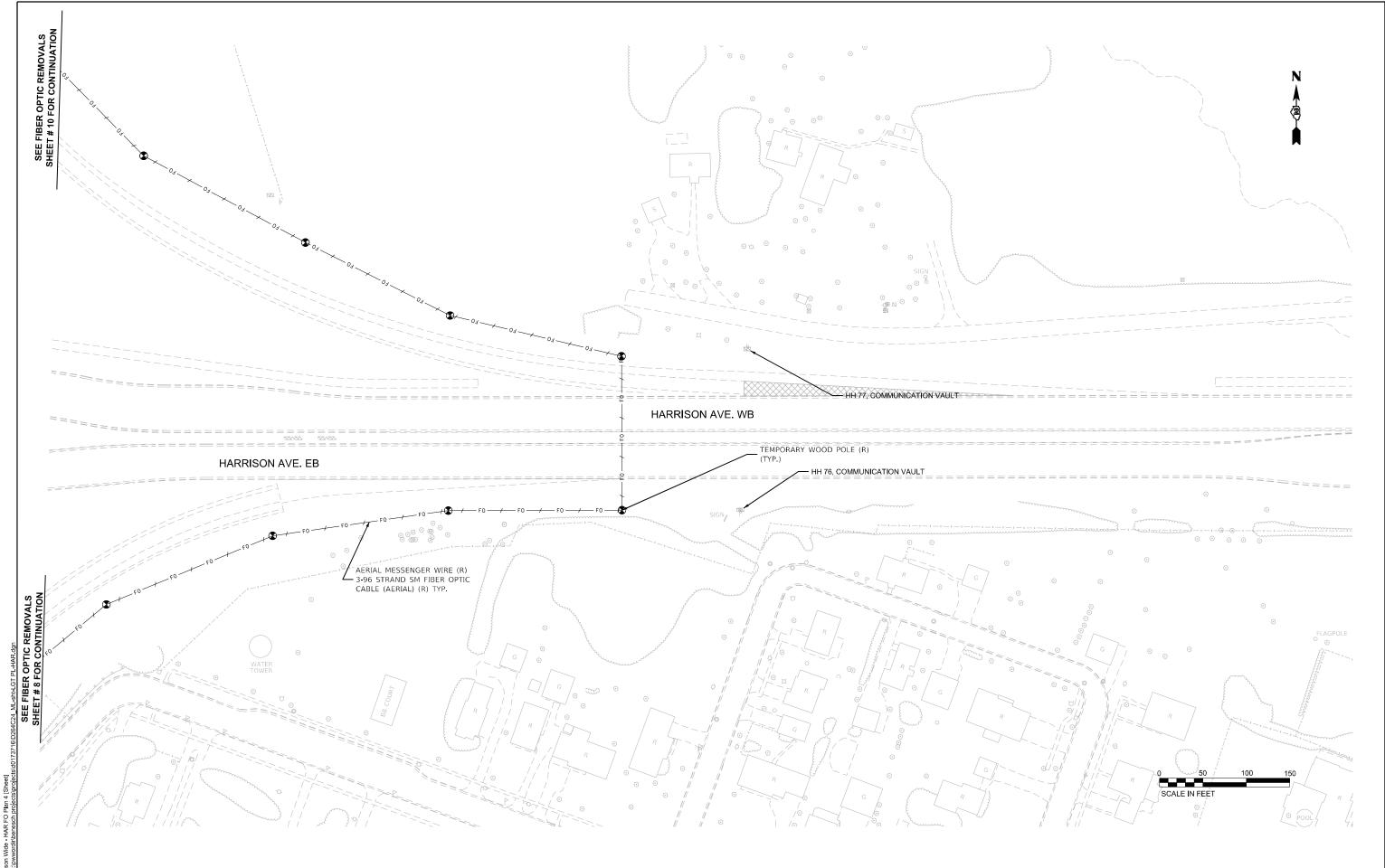
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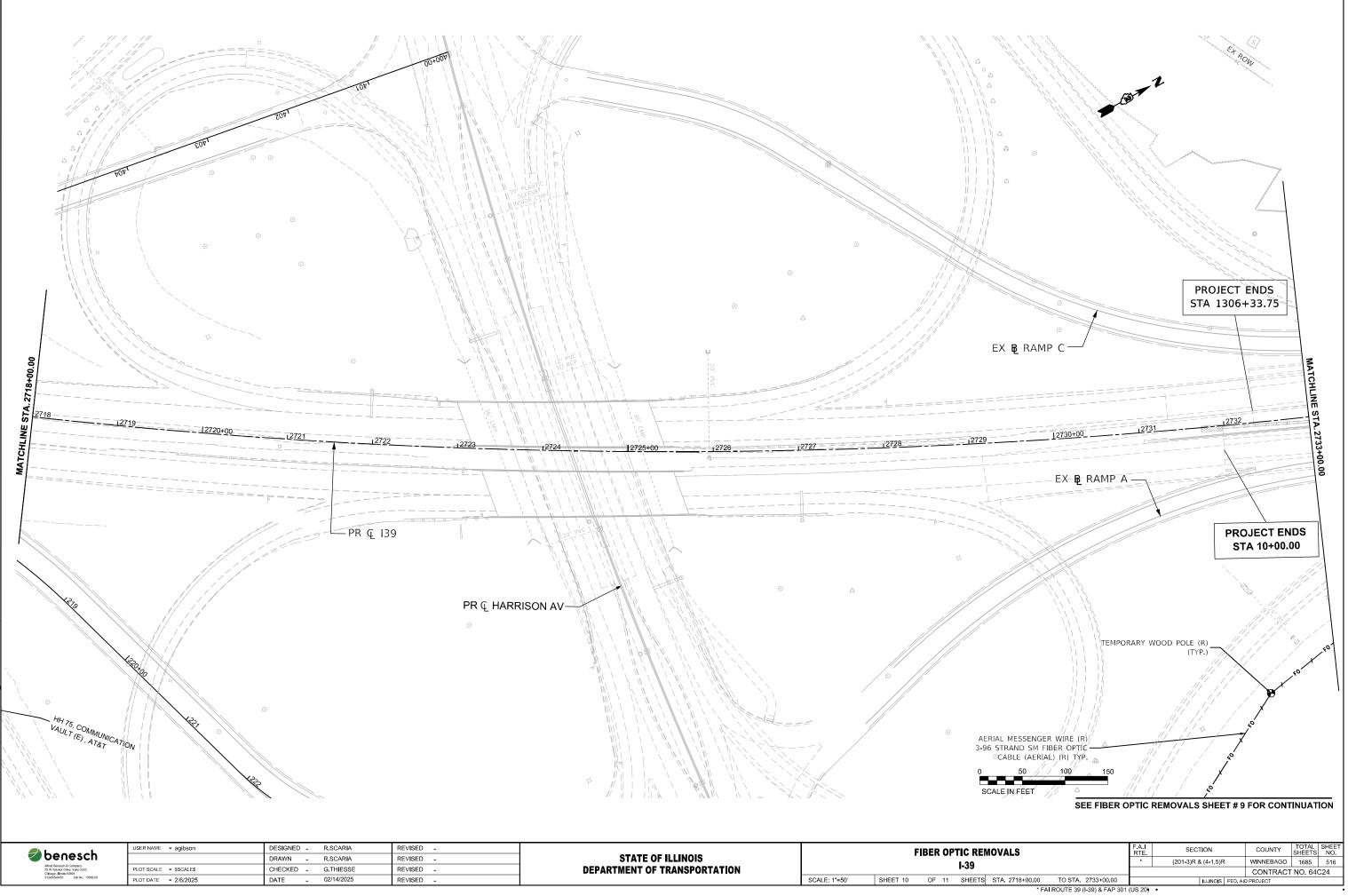


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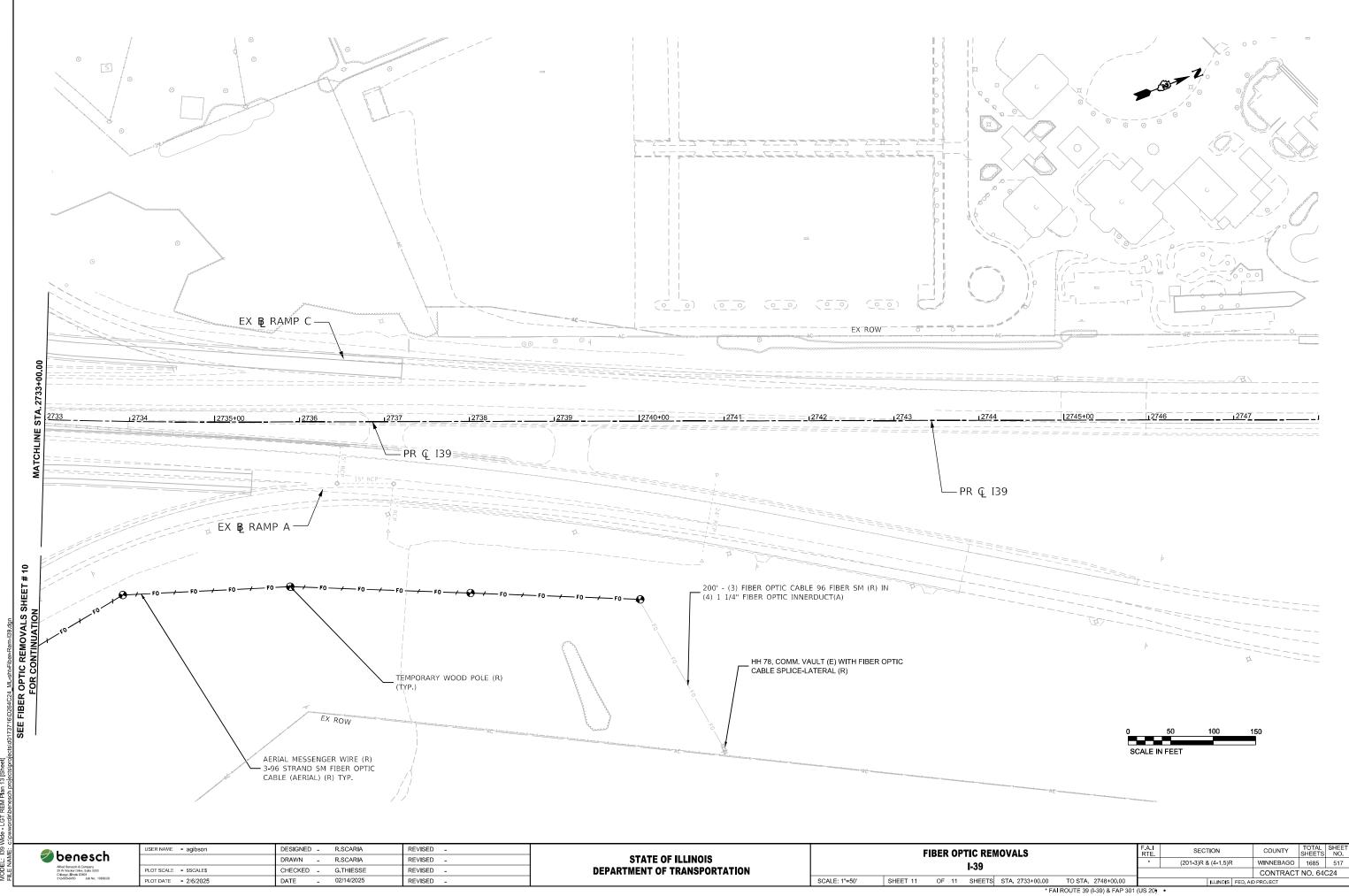
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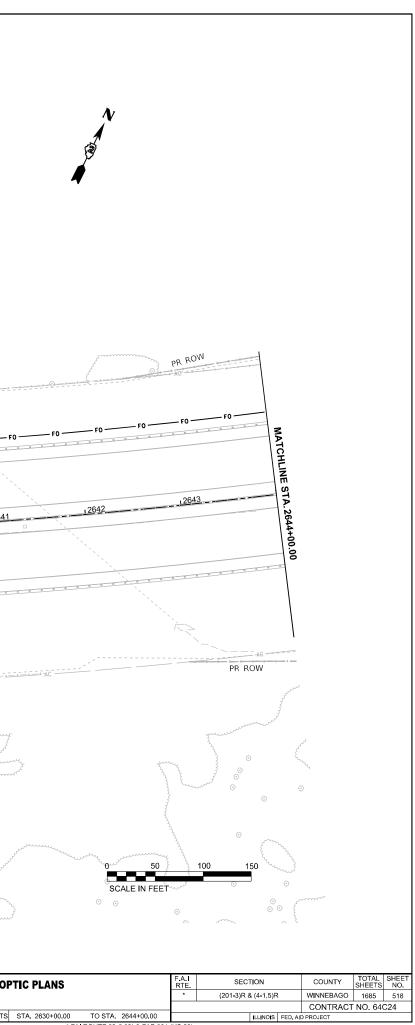


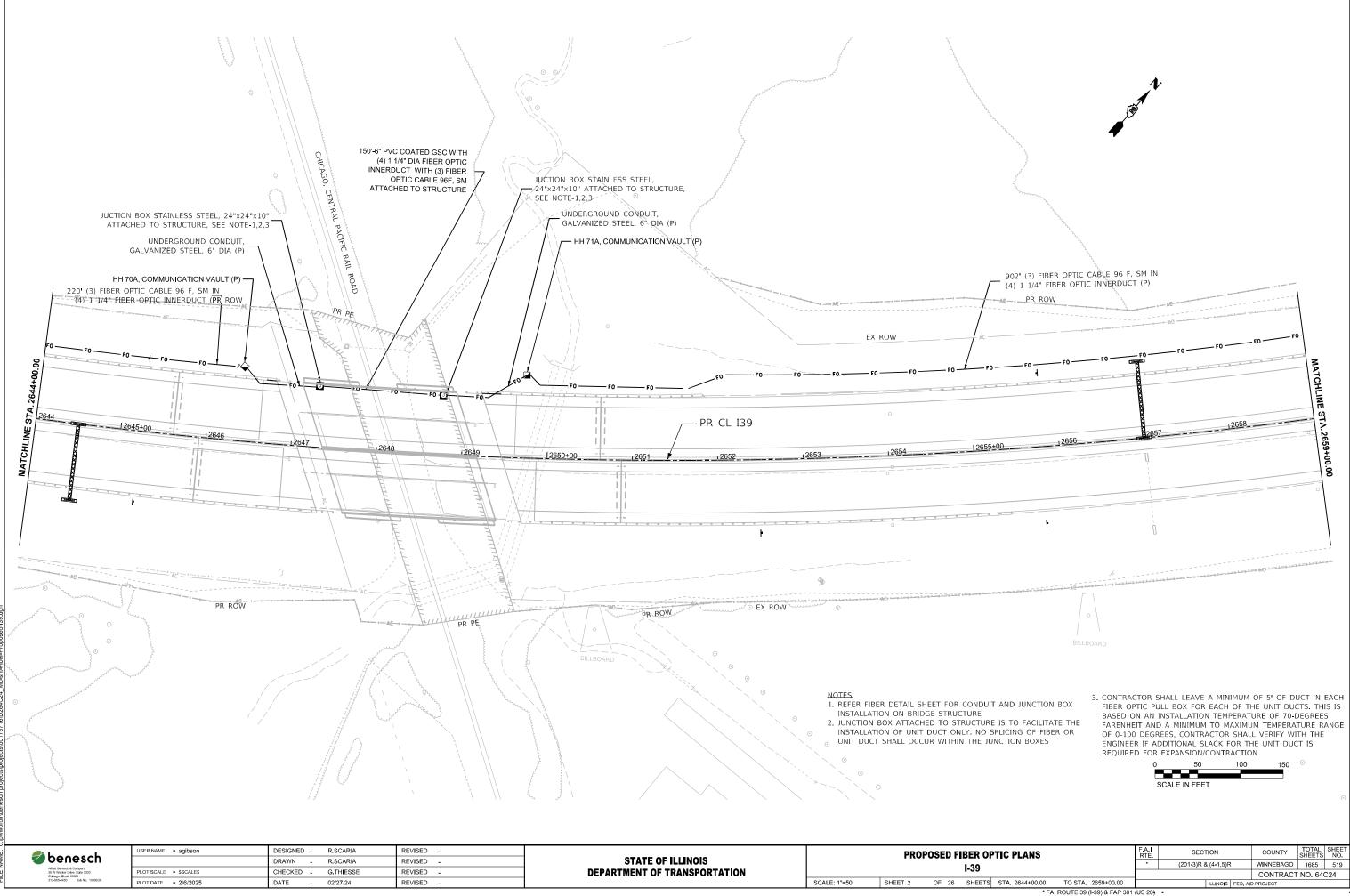
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Alfred Benesch & Company 35 W Whicker Drive, Salat 3300 Chicago, Illinois 60601 312-655-650 Job No. 10800.00	PLOT SCALE = \$SCALE\$	CHECKED - G.THIESSE	REVISED -	DEPARTMENT OF TRANSPORTATION				1-39
312-685-0450 Job No. 10800.00	PLOT DATE = 2/6/2025	DATE _ 02/14/2025	REVISED -		SCALE: 1"=50'	SHEET 10	OF 11	SHEETS

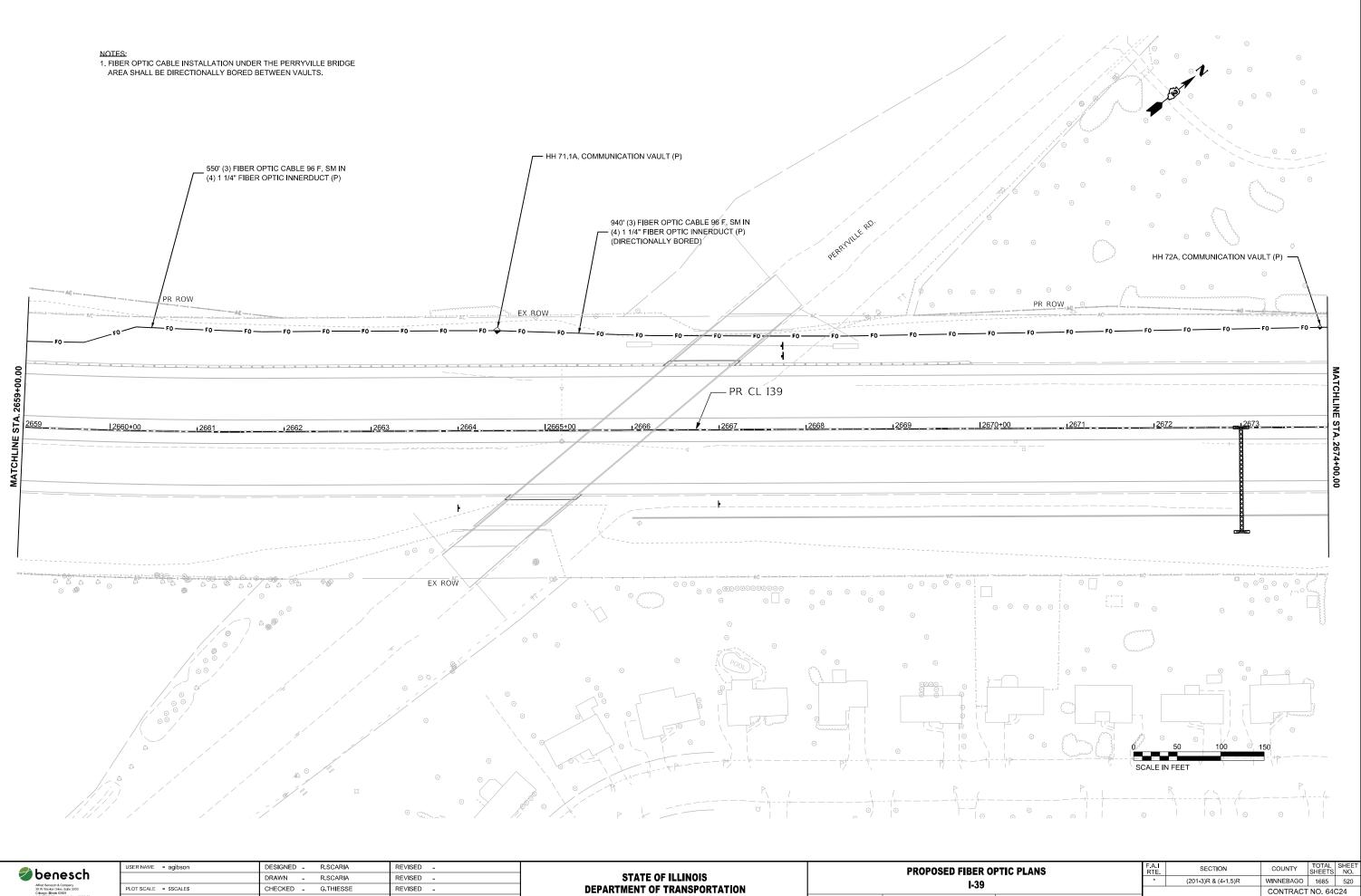


	64B13 FIBER OPTIC PLANS FOR PROPOSED L COMMUNICATION VAULT.	INDERGROUND FIBER			J. J
			F0	F0 F0 F0 F0 F0 F0	F0 F0 F0 F0
L2630+00	12632	634  2635+00	PR CL I39	<u>1263912640+0012641</u>	12642
F0 F0F0F0F0	AC	ACEX ROW	AC		
∞ SEE NOT	E-1 (4) 1 1/4" FI	200'-6" GSC WITH (4) 1 FIBER OPTIC INNERDUCT (3) FIBER OPTIC CABLE OPTIC CABLE 96 F, SM IN 3ER OPTIC INNERDUCT (P) OMMUNICATION VAULT (E) WITH FIBER OPT SPLICE-MAINLINE (P) KISTING HANDHOLE	г WITH 96F, SM		0 0 0 0
With Response & Grouper's strength         USER NAME         = gthiesse           Affer Response & Grouper's strength         PLOT SCALE         = SSCALE\$           PLOT SCALE         = \$SSCALE\$         PLOT DATE         = 9/3/2024	DESIGNED     -     R.SCARIA       DRAWN     -     R.SCARIA       CHECKED     -     G.THIESSE       DATE     -     02/14/2025	REVISED       -         REVISED       -         REVISED       -         REVISED       -         REVISED       -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED FIBER OPTIC PLAI I-39 SCALE: 1"=50' SHEET 1 OF 26 SHEETS STA. 2630+	* (





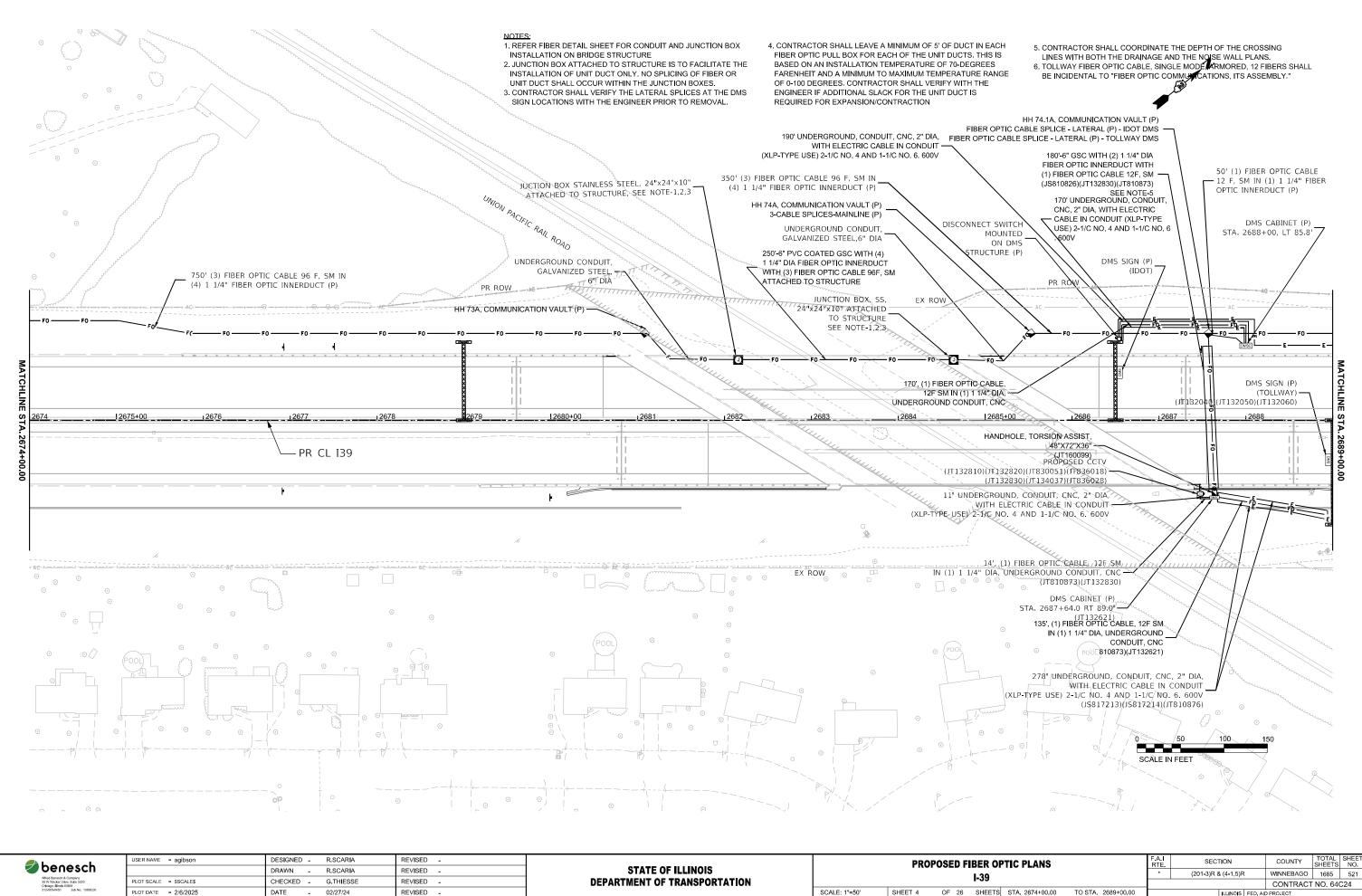
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🌌 benesch		DRAWN - R.SCARIA	REVISED -	STATE OF ILLINOIS					
Alfred Benesch & Company 35 W Wacker Drive, Suite 3300 Chlenen Winck F0601	PLOT SCALE = \$SCALE\$	CHECKED - G.THIESSE	REVISED -	DEPARTMENT OF TRANSPORTATION				I-39	
Chicago, Illinois 60601 312-665-0450 Job No. 10800.00	PLOT DATE = 2/6/2025	DATE - 02/27/24	REVISED -		SCALE: 1"=50'	SHEET 2	OF 26	SHEETS	s s
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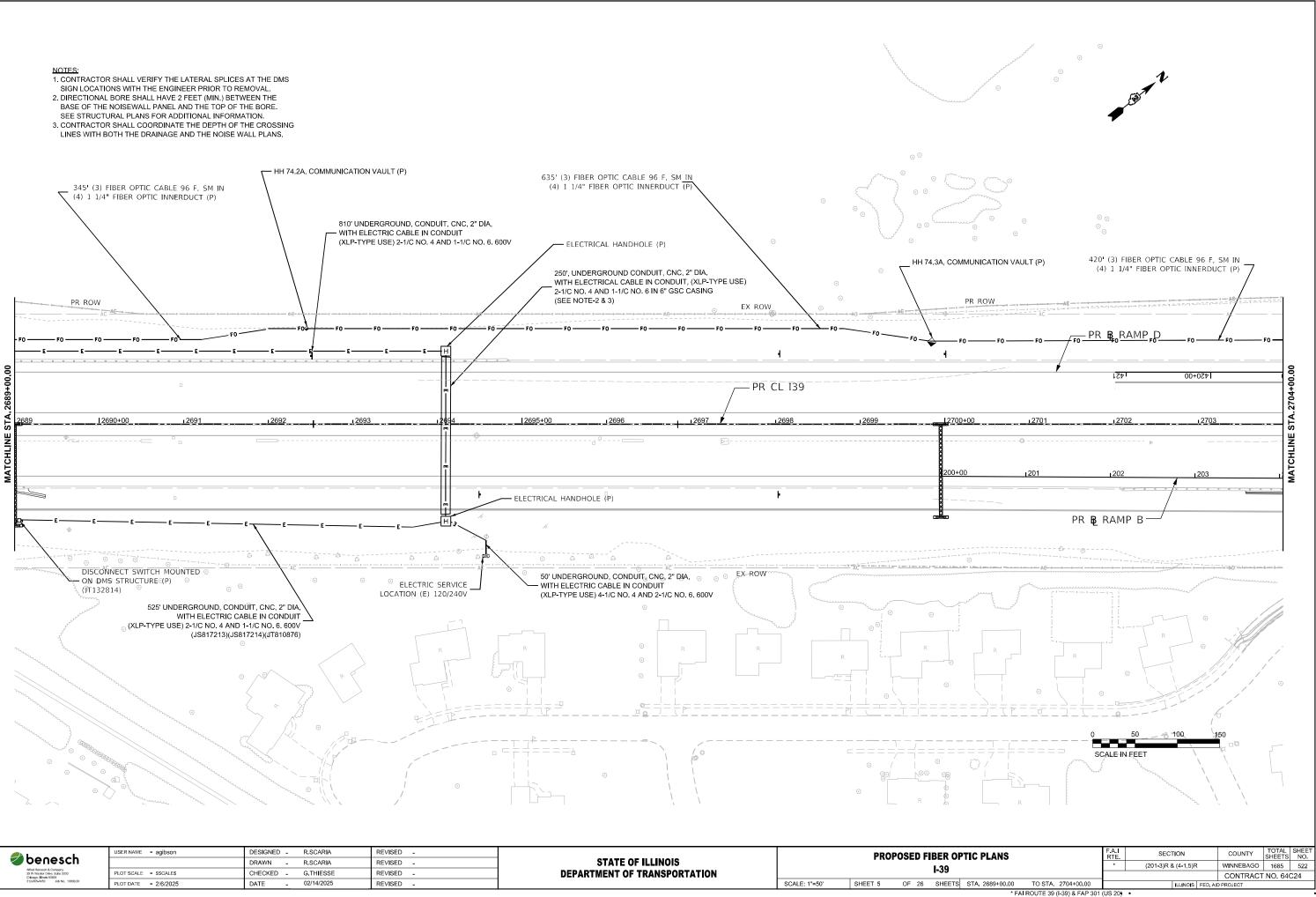
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Alfred Benesch & Company 35 W Wischer Drive, Saite 3300 Chicago, Illingis 60601	PLOT SCALE = \$SCALE\$	CHECKED - G.THIESSE	REVISED -	DEPARTMENT OF TRANSPORTATION				I-39	
Chicago, Illinois 60601 312-565-0450 Job No. 10800.00	PLOT DATE = 2/6/2025	DATE _ 02/14/2025	REVISED -		SCALE: 1"=50'	SHEET 3	OF 26	SHEETS	ST

STA. 2659+00.00 TO STA. 2674+00.00 \* FAI ROUTE 39 (I-39) & FAP 301 (US 20) •

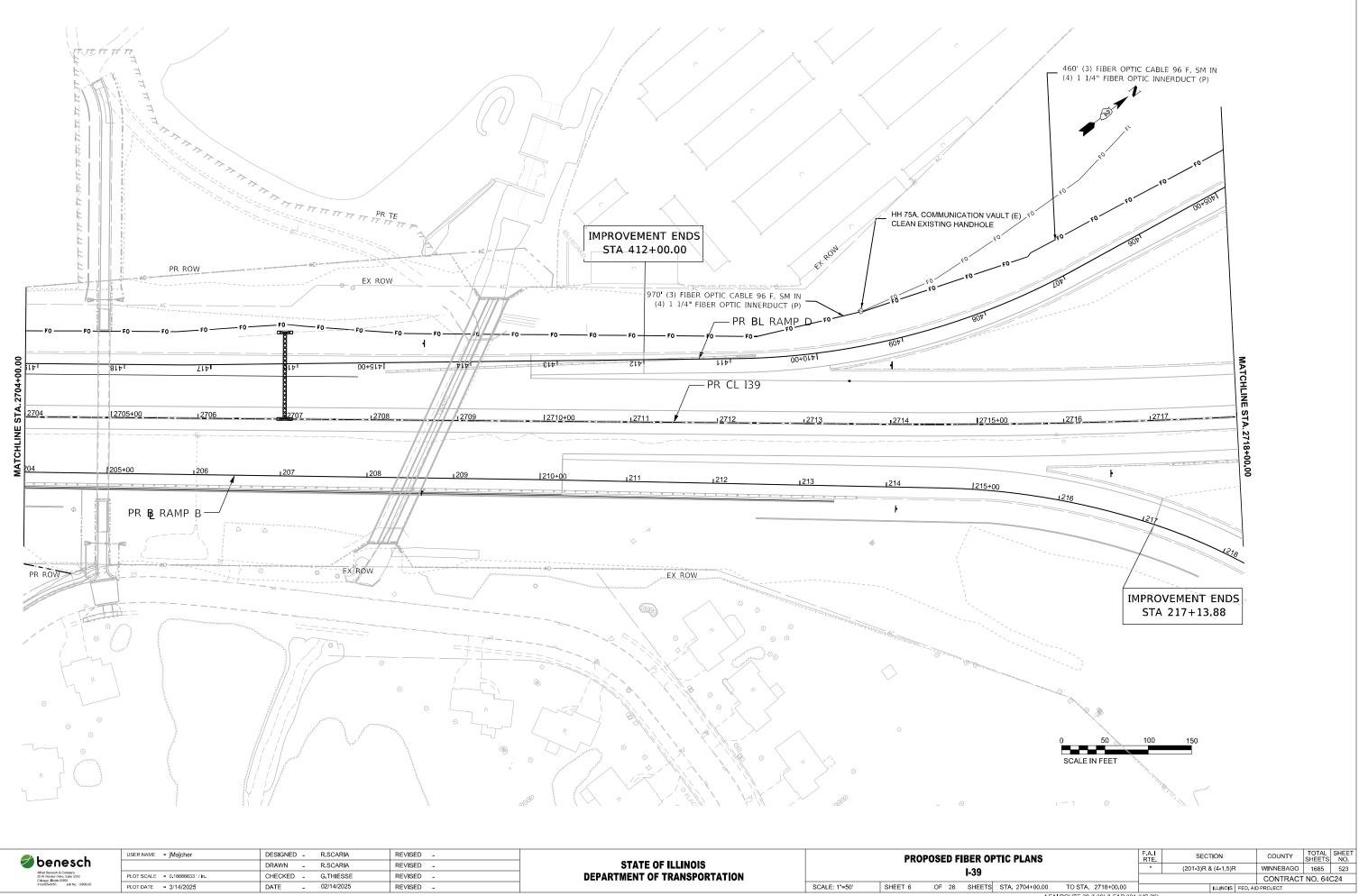
ILLINOIS FED AID PROJECT



35 W Wacker Drive, Suite 3300 Chicago, Illinois 60601 312-565-0450 Job No. 10800J SCALE: 1"=50' SHEET 4 LOT DATE = 2/6/2025 DATE REVISED 02/27/24 -

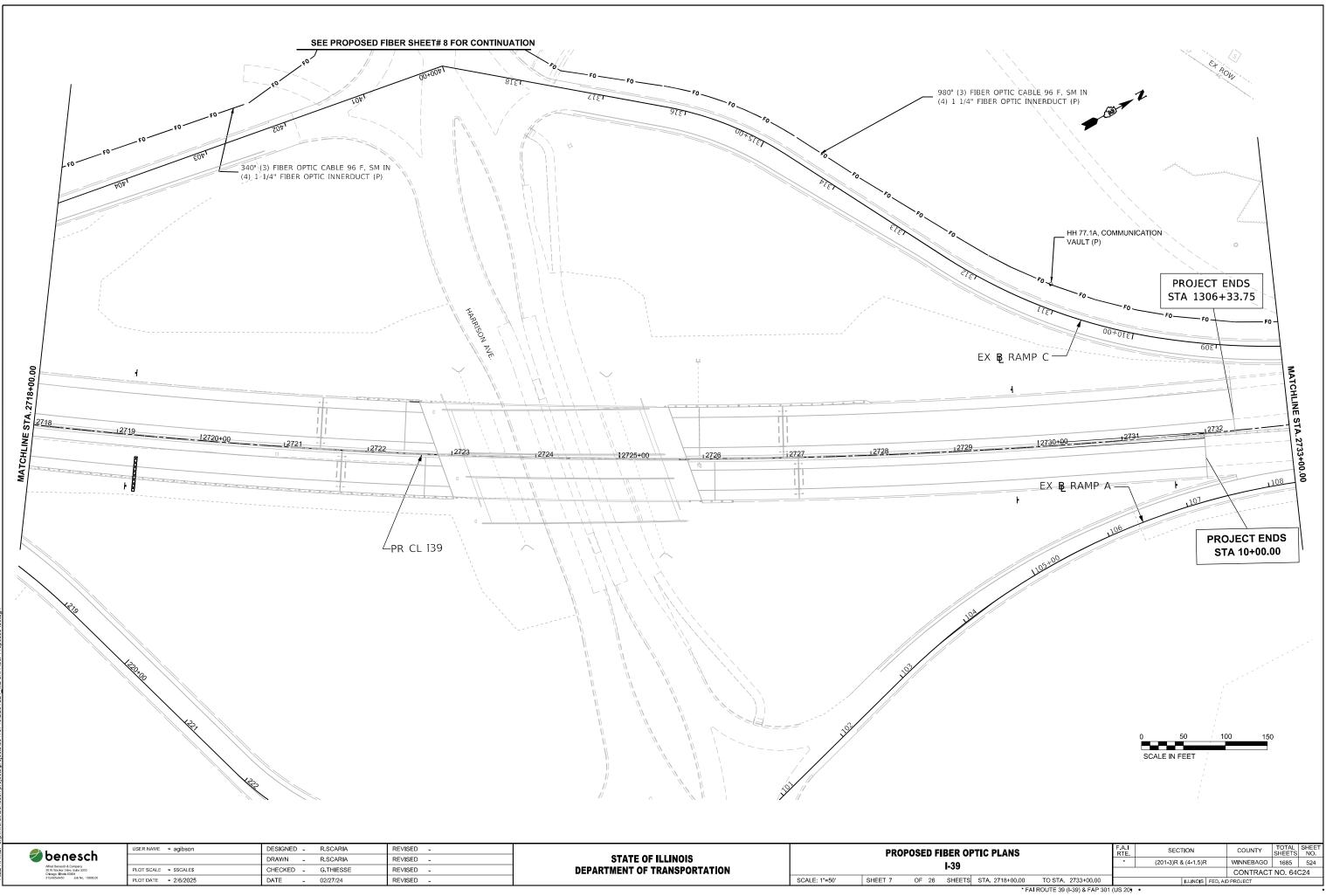


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Alfred Benesch & Company 35 W Wacker Drive, Salta 3300 Chicago, Illinois 60601 312-565-0450 Job No, 10800.00	PLOT SCALE = \$SCALE\$	CHECKED - G.THIESSE	REVISED -	DEPARTMENT OF TRANSPORTATION				I-39
312-585-0450 Job No. 10800.00	PLOT DATE = 2/6/2025	DATE _ 02/14/2025	REVISED -		SCALE: 1"=50'	SHEET 5	OF 26	SHEETS

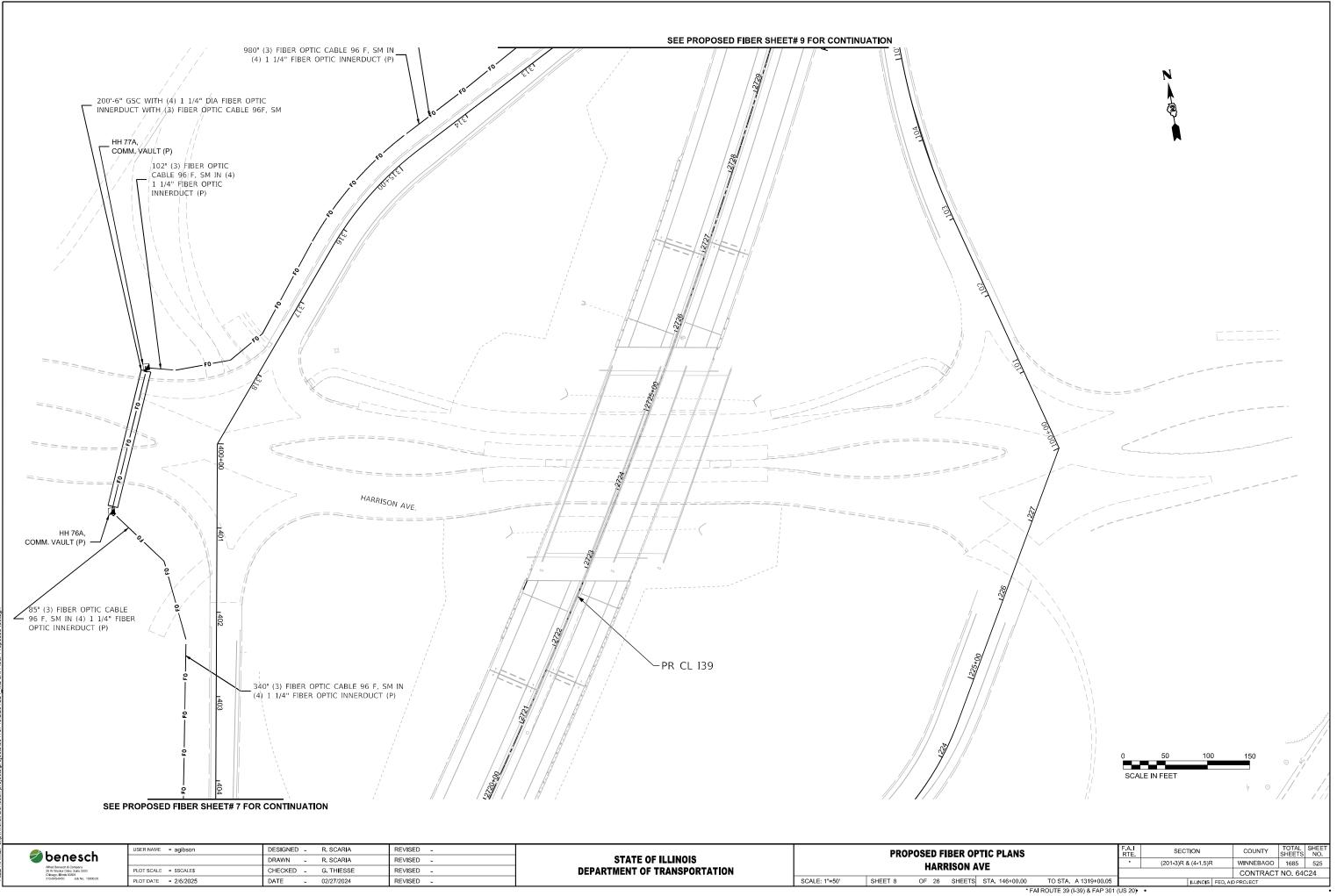


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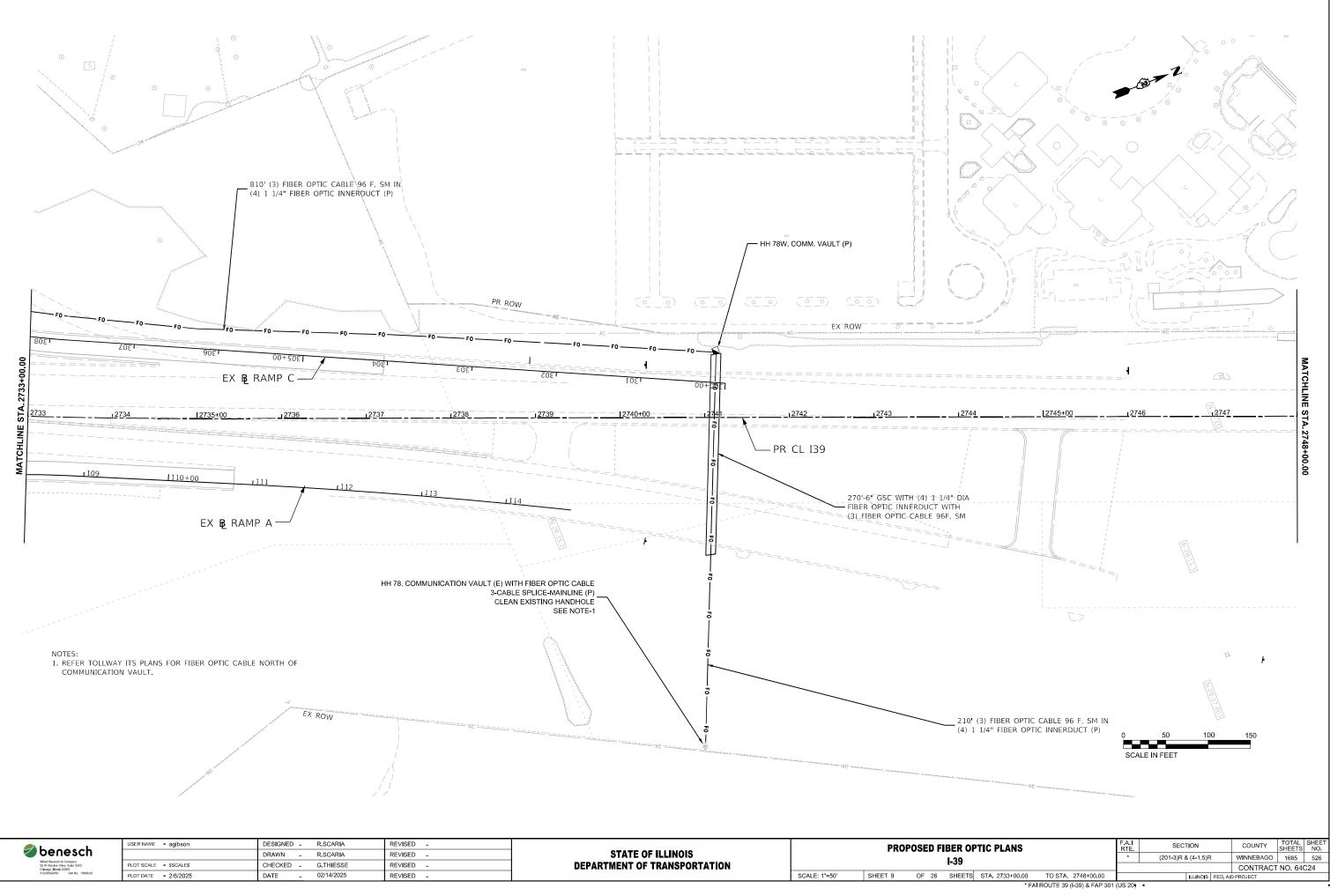
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312-565-0450 Job No. 10800.00	PLOT DATE = 3/14/2025	DATE _ 02/14/2025	REVISED -		SCALE: 1"=50'	SHEET 6	OF 26	SHEETS	STA. 2704+00.00	TO STA. 2718+00.00		ILLINOIS FED. A	D PROJECT	
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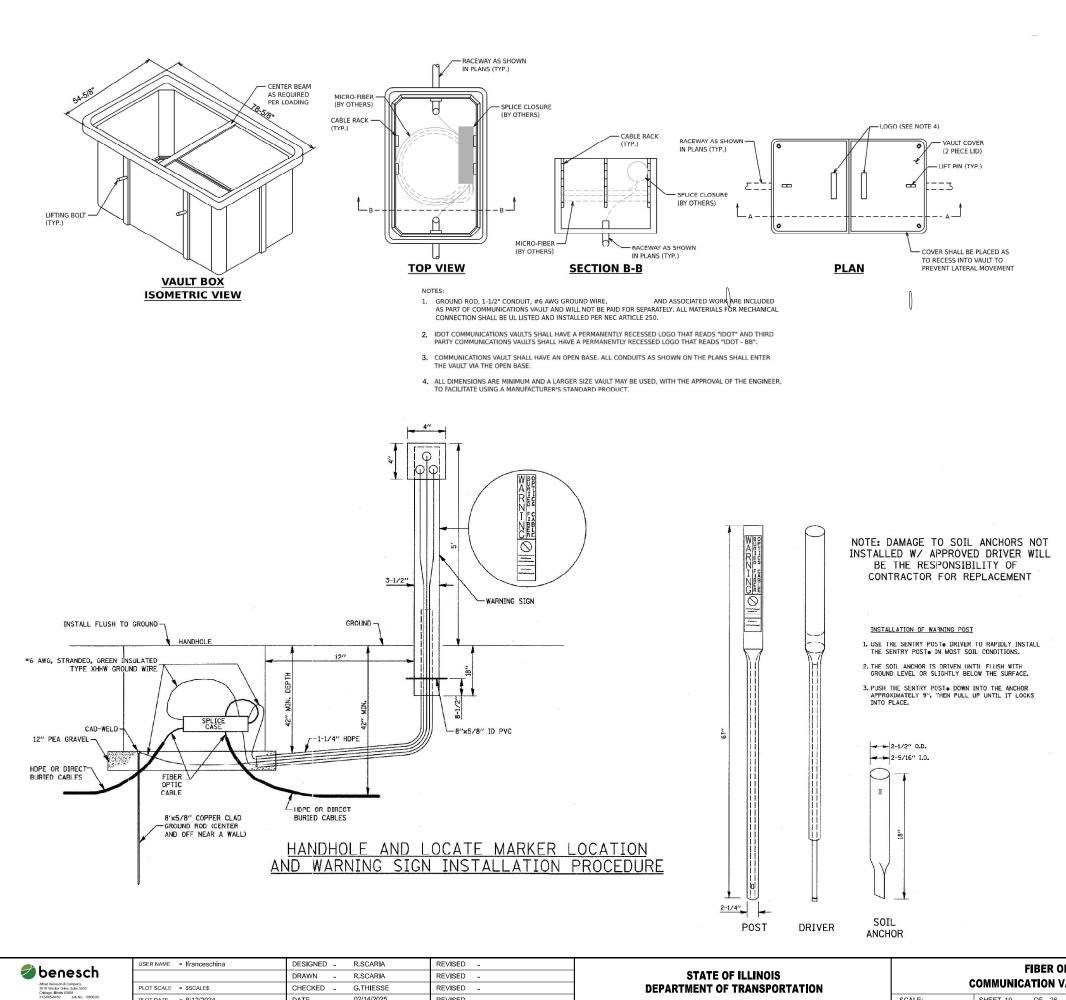


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Alfred Benesch & Company 35 W Wakter Drive, Sate 3300 Colesen Binds 65611	PLOT SCALE = \$SCALE\$	CHECKED - G.THIESSE	REVISED -	DEPARTMENT OF TRANSPORTATION				I-3	,9	
Chloago, Illinois 60601 312-565-0450 Job No. 10800.00	PLOT DATE = 2/6/2025	DATE - 02/27/24	REVISED -		SCALE: 1"=50'	SHEET 7	OF 2	26 SH	IEETS	S



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Alfred Benesch & Company 35 W Wacker Drive, Sate 3300 Chicaco, Illinois 65601	PLOT SCALE = \$SCALE\$	CHECKED - G. THIESSE	REVISED -	DEPARTMENT OF TRANSPORTATION			HAKI	RISON /	AVE
Chicago, Illinois 60601 312-665-0450 Job No. 10800.00	PLOT DATE = 2/6/2025	DATE - 02/27/2024	REVISED -		SCALE: 1"=50'	SHEET 8	OF 26	SHEETS	S STA





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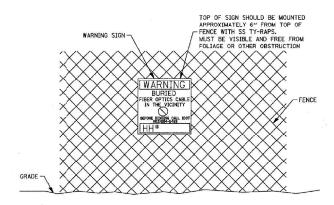
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PLOT DATE = 8/12/2024

FIBER OPTIC D **COMMUNICATION VAULT** SCALE: SHEET 10 OF 26 SHEET



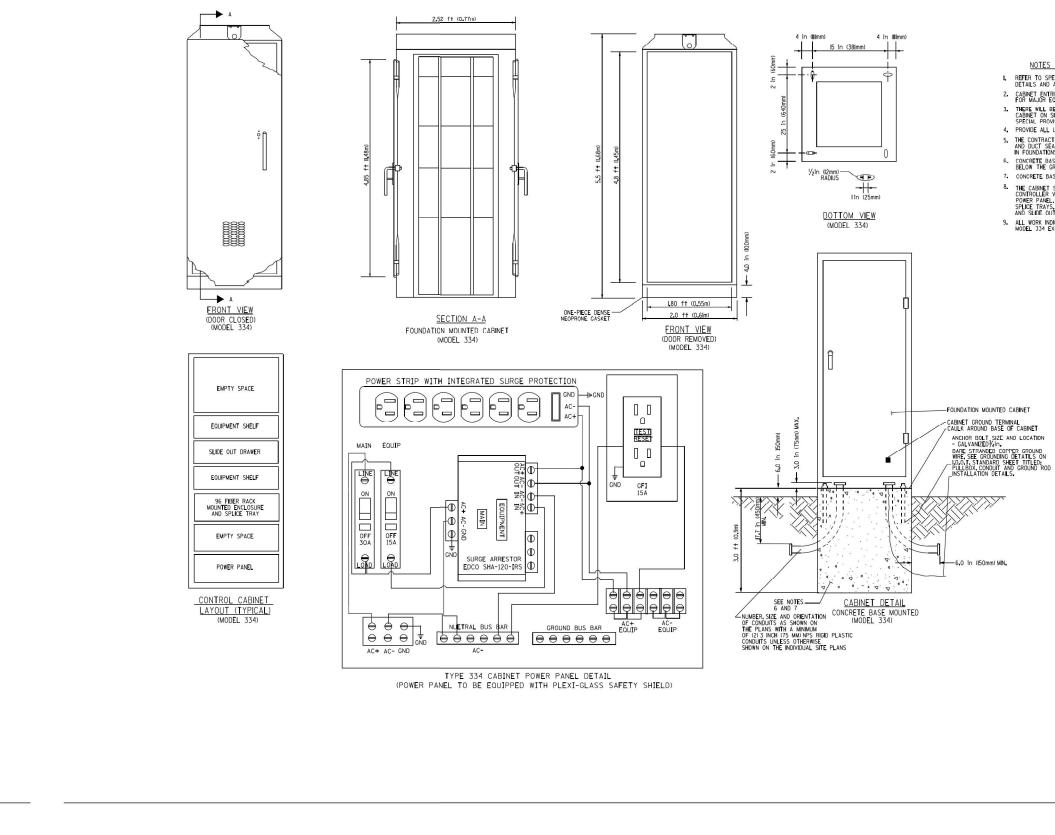
#### FENCE MOUNTED WARNING SIGN NTS

NOTES

- 1. ROUTE MARKER TO BE PLACED 1 FOOT FROM HANDHOLE OR AT FENCE LINE IF POSSIBLE.
- 2. HANDHOLES SHALL BE BACKFILLED ONLY TO THE TOP OF THE BOX. FLUSH TO OROUND.
- COIL FIBER CABLE IN HANDHOLE ENSURING THAT THE BEND RADIUS DOES NOT EXCEED VALUES IN TABLE "A".
- 4. INSTALL GROUND ROD & CAD-WELD AS PER MANUFACTURE'S INSTRUCTIONS. PLACE THE \*6 GROUND WIRE (TYPE XHW, STRANDED, GREEN INSULATED) THAT HAS BEEN ATTACHED TO THE GROUND ROD ON THE CENTER LUG OF THE WARNING STGN. GROUND RODS AND GROUND WIRES INCLUDED IN THE COST OF HANDHOLE INSTALLATION.
- 5. BACKFILL MATERIAL SHALL BE COMPACTED TO THE SATISFACTION OF THE ENGINEER.
- 6. GROUND WIRE SHALL BE BONDED TO BOTH SHEATHS OF ARMORED FIBER OPTIC CABLE IN THE SPLICE ENCLOSURE USING \*6 GROUND WIRE, EACH GROUND SHALL BE ISOLATED WITHIN THE ENCLOSURE.
- INSTALL 1-1/4" HDPE CONDUIT FROM HANDHOLE TO WARNING SIGN TO ALLOW GROUNDING CABLE TO BE INSTALLED.
- B. REFERENCE TYPICAL DRAWING FOR HANDHOLE INSTALLATION
- PLACE 1-1/4" HDPE OVER FIBER OPTIC CABLE TO PROVIDE CRUSH PROTECTION, EXTEND HDPE 1' INSIDE HANDHOLE.
- 10. NO HANDHOLES WILL BE ALLOWED IN PAVED ROADWAYS OR SHOULDERS.
- 11. THE TOPS OF ALL HANDHOLES SHALL BE FLUSH WITH THE ADJACENT SLOPES.
- 12. A WARNING SIGN/LOCATE SIGN IS REQUIRED AT ALL HANDHOLES, AND IS INCLUDED IN COST OF HANDHOLE INSTALLATION.
- 13. FOR ALL SPLICE AND HANDHOLES, NUMBER DECALS WILL BE APPLIED AFTER INSTALLATION IS COMPLETED AND AT THE DIRECTION OF THE ENGINEER.

	TABLE "A"
FIBER	MINIMUM BEND RADIUS
24F	6°
48F	6°
72F	8°
96F	8°
144F	10°
188F	10*
288F	10°
432F	10°
864F	11°

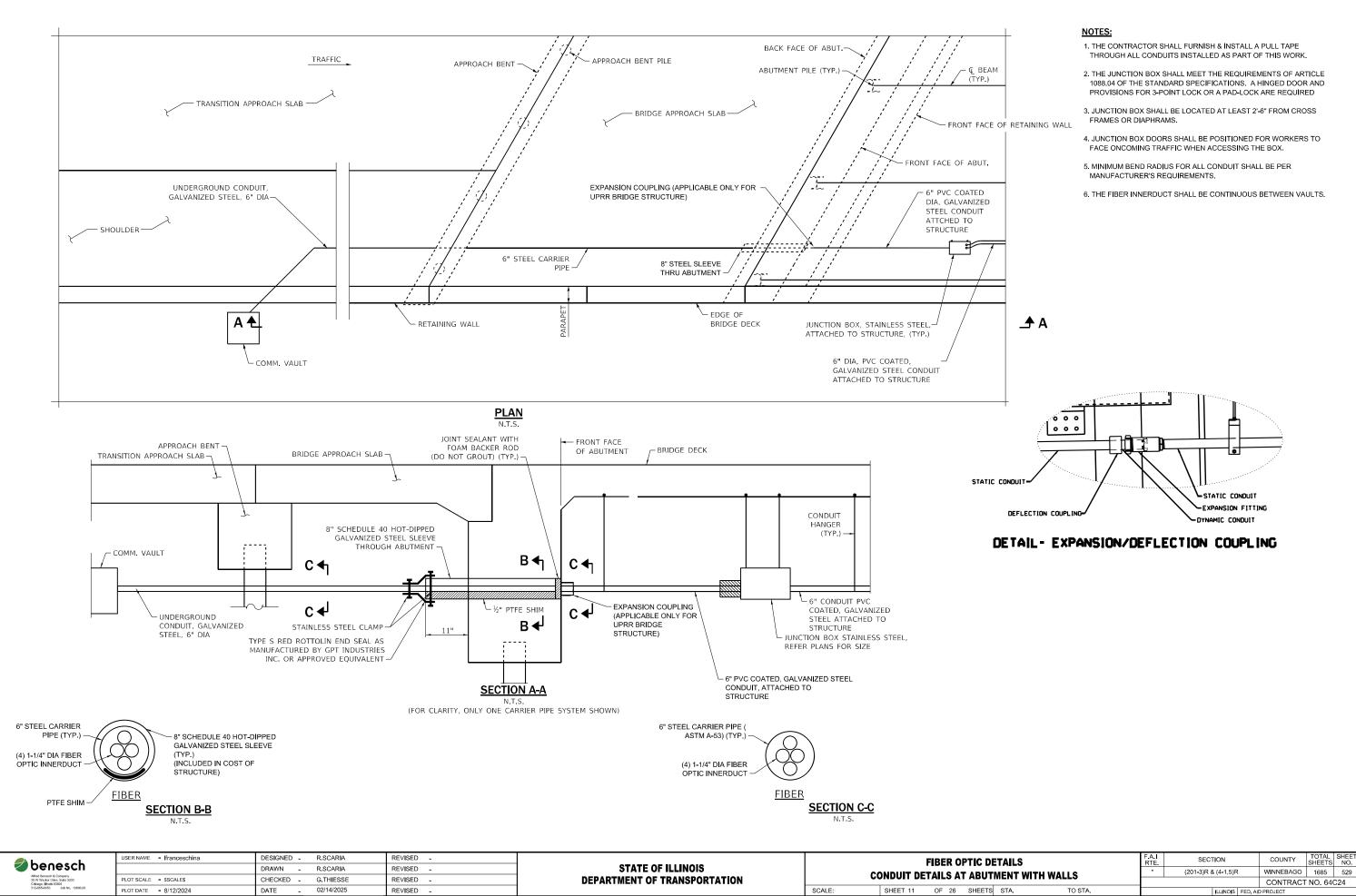
E	TAILS		F.A.I RTE	SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.
Δ	AND LOCATE POST			(201-3)R 8	& (4 <b>-</b> 1,5)R		WINNEBAGO	1685	527
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		* FAI ROUTE 39 (I-39) & FAP 301	(US 20)	•					



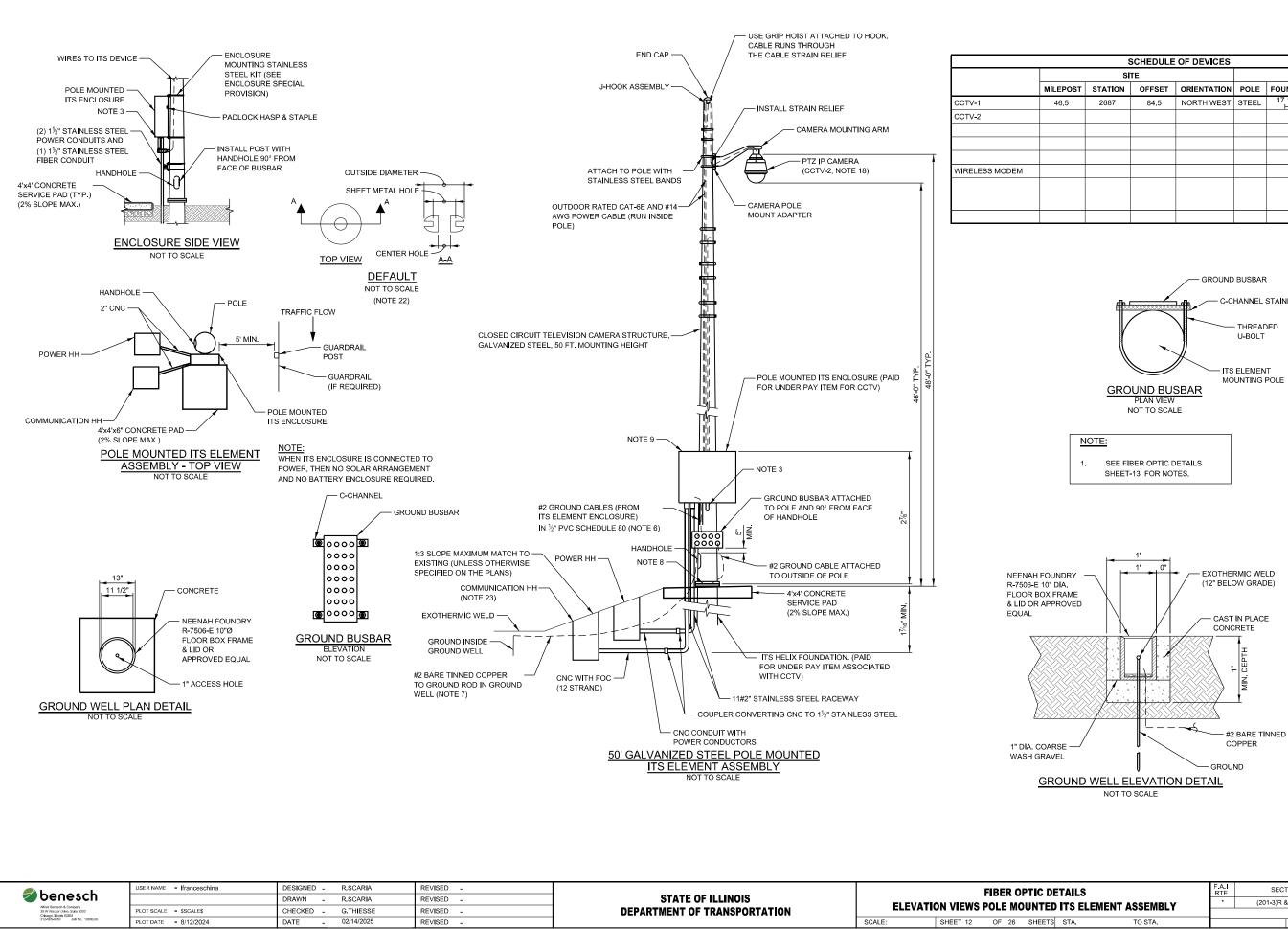
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		DRAWN -	REVISED -	STATE OF ILLINOIS				ODEL 334 DETAIL		*	(201-3)R & (4-1,5)R	WINNEBAGO	1685 52	28
Alfred Benesch & Company 35 W Wincker Drive, Suite 3300 Chicago, Illinois 60601 312-665-0450 Job No. 10800.00	PLOT SCALE = \$SCALE\$	CHECKED - G. THIESSE	REVISED -	DEPARTMENT OF TRANSPORTATION		CA		IUDEL 334 DETAIL				CONTRACT	NO. 64C24	_
312-565-0450 Job No. 10800.00	PLOT DATE = 8/12/2024	DATE _ 02/14/2025	REVISED -		SCALE:	SHEET	OF 26	SHEETS STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		
									* FAI ROUTE 39 (I-39) & FAP 301	I (US 20) •				-

### NOTES (MODEL 334 CABINET):

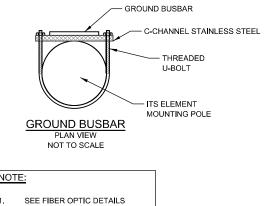
- I. REFER TO SPECIAL PROVISIONS FOR CABINET DETAILS AND ADDITIONAL REQUIREMENTS.
- 2. CABINET ENTRIES INCLUDE VERTICAL ARRANGEMENT FOR MAJOR EQUIPMENT ITEMS ONLY.
- THERE WILL BE ADDITIONAL ITEMS INSTALLED IN THE CABINET ON SIDE AND BACK PANELS AS PER THE SPECIAL PROVISIONS.
- 4. PROVIDE ALL UNUSED SPACE AT BOTTOM OF CABINET. THE CONTRACTOR SHALL INSTALL INSULATED BUSHINGS AND DUCT SEALANT AT ALL CONDUIT BEND TERMINATIONS IN FOUNDATIONS.
- 6. CONCRETE BASE TO BE FORMED AT LEAST 6.0 in (150mm) BELOW THE GROUND SURFACE.
- 7. CONCRETE BASE MUST BE CAST IN PLACE.
- THE CABINET SHALL BE EOUIPPED WITH A THERMOSTATICALLY CONTROLLER VENTLATION FAN, DELUXE PLEATED FILTER, POWER PARLE, 96 FIBER RACK MOLNTED ENCLOSUPE WITH SPLUCE TRAYS, 19 MOUNTING FALLS, EOUIPVENT SHELF, AND SLUCE OUIT DRAWER WITH STORAGE,
- ALL WORK INDICATED SHALL BE PAID FOR UNDER ITEM CABINET, MODEL 334 EXCLUSIVE OF THE CONCRETE FOUNDATION.



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	:	SCHEDULE	OF DEVICES			
	S	TE			SUPPOR	ТТҮРЕ
VILEPOST	STATION	OFFSET	ORIENTATION	POLE	FOUNDATION	MOUNTING HEIGHT
46.5	2687	84.5	NORTH WEST	STEEL	17 1/2"DIA. HELIX	50 FT.





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		* FAI ROUTE 39 (I-39) & FAP 301	(US 20)	•					

#### GENERAL NOTES:

- ITS ELEMENT POLES SHIELDED BY GUARDRAIL SHALL BE LOCATED A MINIMUM OF 5' TO A MAXIMUM OF 20' BEHIND THE GUARDRAIL POST. 1 SEE ILLINOIS TOLLWAY GUARDRAIL STANDARD (SECTION C OF STANDARDS) FOR MORE INFORMATION. ALL OTHER POLES SHALL BE LOCATED OUTSIDE THE CLEAR ZONE. FINAL LOCATION TO BE APPROVED BY THE ENGINEER.
- 2. ANY GROUND CABLES ROUTED INSIDE THE ENCLOSURE SHALL BE GREEN INSULATED TYPE RHW CONDUCTORS. ANY GROUND CONDUCTORS THAT ARE BURIED SHALL BE BARE COPPER TINNED. ANY GROUND CONNECTED TO THE EXTERNAL GROUND BUSBAR SHALL BE CADWELDED TO THE BUSBAR. PVC SCH 80 CONDUIT SHOULD BE GROMMETTED ON END GOING TO BUSBAR TO PREVENT RODENTS AND INSECTS FROM ENTERING.
- PROVIDE A 1½" ALUMINUM CONDUIT NIPPLE WITH LB FITTING FOR ROUTING ITS ELEMENT CABLES INSIDE THE POLE TO THE EQUIPMENT ENCLOSURE. 3. DRILL AND TAP POLE FOR THE CONDUIT NIPPLE. CABLE SLACK SHALL BE PULLED AND FASTENED WITHIN THE TOP OF THE POLE. PROPER CABLE STRAIN RELIEF SHALL BE INSTALLED AND APPROVED BY THE ENGINEER. ALL CABLE RUN INSIDE THE POLE SHALL NOT HANG BELOW THE TOP OF THE HANDHOLE COVER ON THE POLE.
- ALL CONDUITS ENTERING THE ENCLOSURE SHALL BE SEALED. SEE 'ITS POLE MOUNTED ENCLOSURE, ITS ASSEMBLY (CCTV OR MVDS)' SPECIAL PROVISION 4. FOR MORE DETAIL FOR RODENT PROTECTION.
- 5. CONTRACTOR TO PROVIDE ALL POWER, COMMUNICATIONS AND GROUND WIRING REQUIRED FOR SYSTEM OPERATION.
- 6. ATTACH PVC SCH 80 CONDULT TO POLE FOR SUPPORT, USE METAL BUSHING WHEN CONNECTING PVC TO CABINET, USE GROMMETS AT BOTH ENDS OF CONDUIT TO SEAL CONDUIT BUT ALLOW GROUND CABLE TO RUN THROUGH BOTH ENDS.
- GROUND ROD SHALL BE PLACED A MINIMUM OF 10' FROM THE FOUNDATION. A GROUND WELL SHALL BE INCLUDED TO PERMIT ACCESS TO THE GROUND 7. ROD CONNECTION. CONNECTION TO THE GROUND BUSBAR AND THE GROUND ROD SHALL BE CADWELD.
- A FLAT STEEL MESH PANEL ALONG WITH A COMMERCIALLY AVAILABLE HYDROPHOBIC LOW DENSITY COMPOSITE BACKFILL MATERIAL (KNOWN AS Q-SET 250) 8. SHALL BE INSTALLED BETWEEN THE ANCHOR BASE AND THE POLE TO PREVENT THE ENTRY OF RODENTS INTO THE POLE. SEE SPECIAL PROVISIONS FOR MORE DETAILS.
- 9. THIS ITS ELEMENT ENCLOSURE DETAIL WILL BE UTILIZED FOR POLE MOUNTED APPLICATIONS ONLY, IT CANNOT BE UTILIZED FOR TOWER MOUNTED APPLICATION.
- BACKFILL PER ILLINOIS TOLLWAY STANDARD H1. BACKFILL SHALL BE TO THE TOP OF THE POLE BASE ON ALL SIDES. 10.
- 11. ALL CABLING (INCLUDING CABLING INSIDE THE ENCLOSURE) IS OUTDOOR RATED. CAMERA CABLE PART NUMBERS ARE: CAT-6E CABLE (BELDEN CATALOG NO. 7953A) AND #14 AWG 3/C CCTV POWER CABLE (BELDEN CATALOG NO. 9367). THE GROUND WIRE (WHITE) IN THE 3/C #14 AWG POWER CABLE SHALL BE TAPED GREEN. ANY OTHER ITS ELEMENT WILL USE SPECIFIC CABLE ASSOCIATED TO THAT ELEMENT.
- 12. THE J-HOOK SHALL BE WELDED IN PLACE TO THE SIDE OF THE POLE, NEAR THE TOP OF THE POLE. THE CONTRACTOR SHALL PROVIDE A CUSTOM FLAT TOP POLE CAP THAT WILL FIT THE POLE TOP WITH THE J-HOOK WELDED TO THE SIDE. THE POLE CAP SHALL BE SECURED TO THE POLE BY DRILLING AND INSERTING SET SCREWS.
- 13. THIS DRAWING IS A MULTI-PURPOSE DRAWING THAT INCLUDES TWO TYPES OF CONNECTIONS TO A SOLAR POWERED BATTERY ENCLOSURE. IF SOLAR POWER IS UTILIZED, THEN THE SPECIAL PROVISIONS WILL CALL OUT THE MATERIAL AND NECESSARY CONNECTIONS TO THE ITS ELEMENT ENCLOSURE.
- CONSTRUCT A 4 FT. X 4 FT. CONCRETE SERVICE PAD 6-INCHES FROM THE POLE BASE ON THE SAME SIDE AS THE ITS ENCLOSURE, CENTERED WITH THE ITS ENCLOSURE. 14.
- THIRTY DAYS PRIOR TO INSTALLING ANY NEW CCTV CAMERA, MVDS, SWITCH, WIRELESS OR FIBER OPTIC MODEM, THE CONTRACTOR SHALL COORDINATE DEVICE 15. CONFIGURATION WITH THE ENGINEER
- THE DISCONNECT SWITCH, SUPPORT, AND ASSOCIATED CONDUIT SHALL BE INSTALLED FOR ITS SITES WHERE THE UTILITY SERVICE INSTALLATION IS GREATER THAN 16. 500 FEET FROM THE ITS SITE OR LOCATED ON THE OPPOSITE SIDE OF THE ROADWAY FROM THE ITS SITE.
- 17. ALL SLOPE RATIOS ARE EXPRESSED AS UNITS OF VERTICAL DISPLACEMENT TO UNITS OF HORIZONTAL DISPLACEMENT (V:H).
- 18. CABLES SHALL ENTER POLES THROUGH A GROMMET. GROMMET SIZE SHALL BE CHOSEN SO THAT THE CENTER HOLE FORMS A WATER TIGHT SEAL AROUND THE CABLES.
- 19. IF HANDHOLE IS INSTALLED NEAR THE BOTTOM OF A DITCH, THEN IT SHALL NOT BE INSTALLED BELOW THE FIFTY YEAR FLOOD ELEVATION.

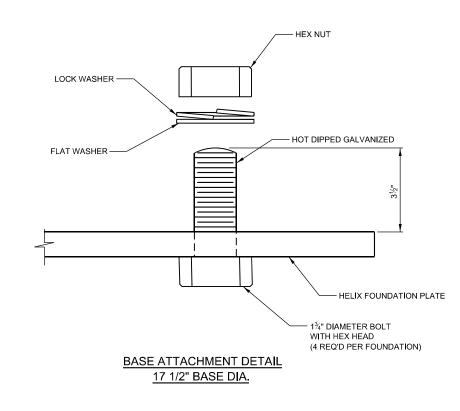
## CCTV NOTES:

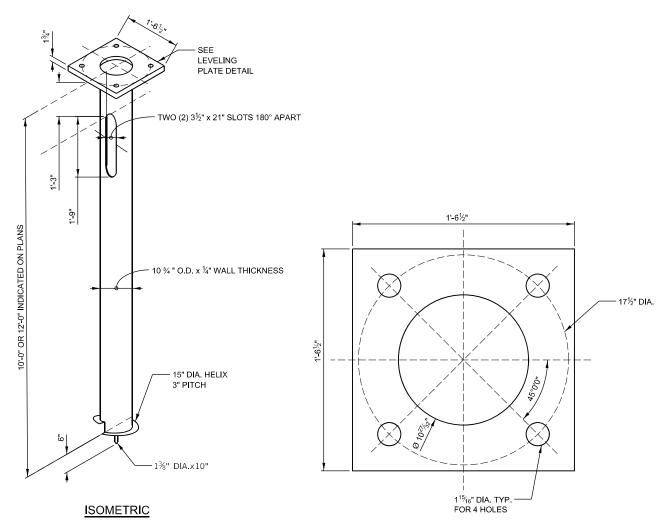
FINAL PLACEMENT HEIGHTS OF THE CCTV CAMERAS SHALL BE BASED ON SITE CONDITIONS. ILLINOIS TOLLWAY OPERATIONAL NEEDS, AND AS PER MANUFACTURER'S MOUNTING 18 ON SAME ITS POLE: KEEP A MINIMUM 24 INCHES HEIGHT DIFFERENCE BETWEEN THE 2 CCTV.

	USER NAME = Ifranceschina	DESIGNED - R.SCARIA	REVISED -			FIBER OPTIC DETA
🥑 benesch		DRAWN - R.SCARIA	REVISED -	STATE OF ILLINOIS	051150	
Alfred Benesch & Company 35 W Wacker Drive, Suite 3300 Chlorgo, Illinois 60601	PLOT SCALE = \$SCALE\$	CHECKED - G.THIESSE	REVISED -	DEPARTMENT OF TRANSPORTATION	GENERA	L NOTES POLE MOUNTED ITS
312-885-0450 Job No. 10800.00	PLOT DATE = 8/12/2024	DATE _ 02/14/2025	REVISED -		SCALE:	SHEET 13 OF 26 SHEETS ST

RECOMMENDATIONS. THE HEIGHT SHALL BE APPROVED BY THE ENGINEER ONLY AFTER REVIEW BY ILLINOIS TOLLWAY ITS OPERATIONS. FOR SITE WHERE 2 CCTV TO BE INSTALLED

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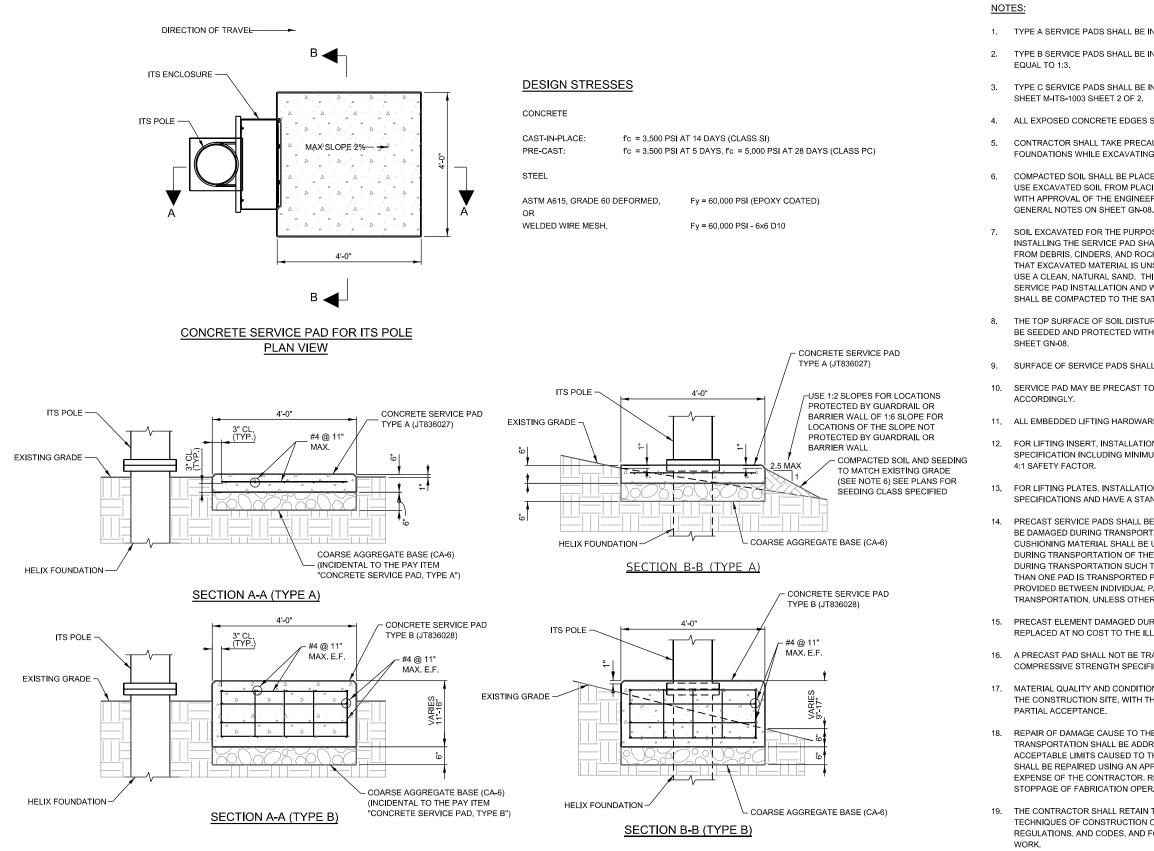


HELIX - GROUND MOUNTED ASSEMBLY

With Intervent Construint     Drawin     R.SCARIA     REVISED     STATE OF ILLINOIS       With Intervent Construint     PLOT SCALE = \$SCALE\$     CHECKED -     G.THIESSE     REVISED     DEPARTMENT OF TRANSPORTATION     ITS STANDAR FC		USER NAME = Ifranceschina	DESIGNED - R.SCARIA	REVISED -					PTIC DE
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	Afred Benesch & Company 35 W Wacker Drive, Suite 3300 Calcence Illineie 60601	PLOT SCALE = \$SCALE\$	CHECKED - G.THIESSE	REVISED -	DEPARTMENT OF TRANSPORTATION		115	STANDA	AK FUUR
PLOTIDATE - 01/2/2024 DATE - 02/14/2023 REVISED - SCALE. SHEET 14 OF 20 SHEE	312-565-0450 Job No. 10800.00	PLOT DATE = 8/12/2024	DATE _ 02/14/2025	REVISED -		SCALE:	SHEET 14	OF 26	SHEETS

LEVELING PLATE

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							CONTRACT	NO. 640	224
TS	STA.	TO STA.			ILLINOIS	FED. All	D PROJECT		
		* FAI ROUTE 39 (I-39) & FAP 3	01 (US 20)	•					



## CONCRETE SERVICE PAD DETAILS

AME: c	💋 benesch	Sch USER NAME = Ifranceschina DESIGNED - R.SCARIA REVISED - STATE OF ILLINOIS					FIBER OPTIC DETA					
У Ц	Alfred Benesch & Company 35 W Wacker Drive, Sulle 3300 Chicago, Illinols 60001 312-459-0450 Job No. 10600.00	PLOT SCALE = \$SCALE\$	CHECKED -	G.THIESSE	REVISED -	DEPARTMENT OF TRANSPORTATION	L	ITS	S CONC	RETE SE	RVI	
Ē	312-585-0450 Job No. 10800.00	PLOT DATE = 8/12/2024	DATE -	02/14/2025	REVISED -		SCALE:	SHEET 15	OF 2	6 SHEET	S ST	

1. TYPE A SERVICE PADS SHALL BE INSTALLED ON SLOPES UP TO AND INCLUDING 1:6 (V:H).

TYPE B SERVICE PADS SHALL BE INSTALLED ON SLOPES GREATER THAN 1:6 AND LESS THAN OR

3. TYPE C SERVICE PADS SHALL BE INSTALLED ON SLOPES GREATER THAN 1:3 AS SHOWN ON

4. ALL EXPOSED CONCRETE EDGES SHALL HAVE A 1" MINIMUM CHAMFER.

5. CONTRACTOR SHALL TAKE PRECAUTIONS TO STABILIZE EXISTING ITS POLES AND HELIX FOUNDATIONS WHILE EXCAVATING SOIL FOR INSTALLATION OF CONCRETE SERVICE PADS.

COMPACTED SOIL SHALL BE PLACED TO BE LEVEL WITH THE SERVICE PAD. CONTRACTOR MAY USE EXCAVATED SOIL FROM PLACING THE PAD'S AGGREGATE BASE FOR GRADING PURPOSES WITH APPROVAL OF THE ENGINEER. SEEDING AND EROSION CONTROL SHALL BE PER THE

SOIL EXCAVATED FOR THE PURPOSE OF MAINTAINING A STABLE WORKING SLOPE WHILE INSTALLING THE SERVICE PAD SHALL BE REPLACED. BACKFILL SHALL BE EARTH WHICH IS FREE FROM DEBRIS, CINDERS, AND ROCKS MEASURING 2" OR GREATER IN DIAMETER. IN THE EVENT THAT EXCAVATED MATERIAL IS UNSUITABLE FOR USE AS BACKFILL. THE CONTRACTOR SHALL USE A CLEAN, NATURAL SAND. THIS SUBSTITUTE BACKFILL SHALL BE INCIDENTAL TO THE SERVICE PAD INSTALLATION AND WILL NOT BE PAID FOR SEPARATELY. ALL BACKFILL MATERIALS SHALL BE COMPACTED TO THE SATISFACTION OF THE ENGINEER.

THE TOP SURFACE OF SOIL DISTURBED BY EXCAVATION FOR PLACING THE SERVICE PADS SHALL BE SEEDED AND PROTECTED WITH EROSION CONTROL MEASURES PER THE GENERAL NOTES ON

9. SURFACE OF SERVICE PADS SHALL BE BROOM FINISHED.

10. SERVICE PAD MAY BE PRECAST TO MATCH TYPE A (JT8360027) OR TYPE B (JT8360028) PAD

11. ALL EMBEDDED LIFTING HARDWARE USED SHALL BE GALVANIZED.

12. FOR LIFTING INSERT, INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATION INCLUDING MINIMUM EDGE DISTANCE AND SPACING REQUIREMENTS AND HAVE A

13. FOR LIFTING PLATES, INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND HAVE A STANDARD 5:1 SAFETY FACTOR FOR THE LIFTING HARDWARE.

14. PRECAST SERVICE PADS SHALL BE TRANSPORTED IN SUCH A MANNER THAT THE PAD WILL NOT BE DAMAGED DURING TRANSPORTATION. PLASTIC CORNER PIECES OR SHOCK-ABSORBING CUSHIONING MATERIAL SHALL BE USED AT ALL BEARING POINTS AND ALL EXPOSED CORNERS DURING TRANSPORTATION OF THE PRECAST FLEMENTS, PADS SHALL BE PROPERLY SUPPORTED DURING TRANSPORTATION SUCH THAT CRACKING OR DEFORMATION DOES NOT OCCUR. IF MORE THAN ONE PAD IS TRANSPORTED PER VEHICLE, PROPER SUPPORT AND SEPARATION MUST BE PROVIDED BETWEEN INDIVIDUAL PADS. PADS MUST BE LYING HORIZONTALLY DURING TRANSPORTATION, UNLESS OTHERWISE APPROVED.

15. PRECAST ELEMENT DAMAGED DURING HANDLING AND STORAGE SHALL BE REPAIRED OR REPLACED AT NO COST TO THE ILLINOIS TOLLWAY.

16. A PRECAST PAD SHALL NOT BE TRANSPORTED FROM THE CASTING YARD UNTIL A MINIMUM 5 DAY COMPRESSIVE STRENGTH SPECIFIED HAS BEEN ATTAINED.

17. MATERIAL QUALITY AND CONDITION AFTER SHIPMENT WILL BE INSPECTED AFTER DELIVERY TO THE CONSTRUCTION SITE, WITH THIS AND ANY PREVIOUS INSPECTIONS CONSTITUTING ON

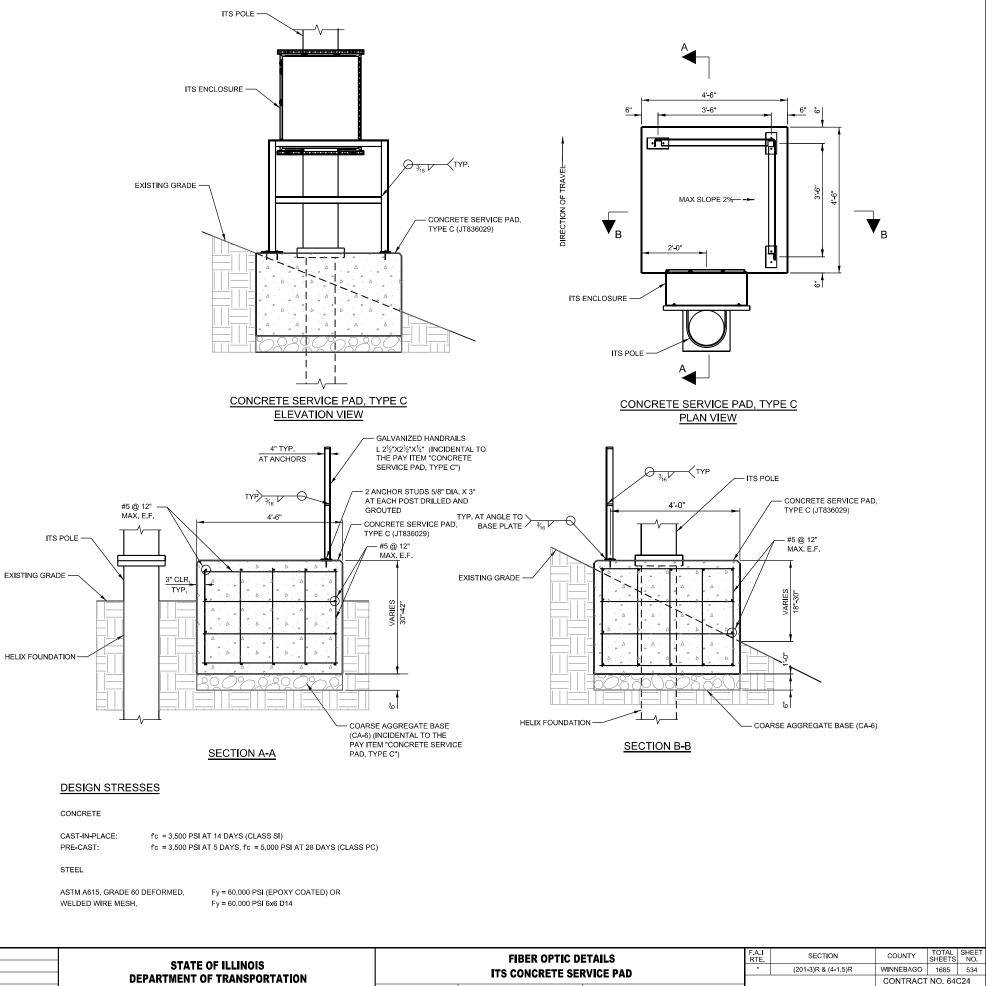
18. REPAIR OF DAMAGE CAUSE TO THE PADS DURING FABRICATION, LIFTING AND HANDLING, OR TRANSPORTATION SHALL BE ADDRESSED ON A CASE-BY-CASE BASIS. DAMAGE WITHIN ACCEPTABLE LIMITS CAUSED TO THE TOP OF THE SURFACES OR TO KEYED EDGES OF THE PADS SHALL BE REPAIRED USING AN APPROVED REPAIR METHOD AT THE FABRICATION PLANT AT THE EXPENSE OF THE CONTRACTOR. REPETITIVE DAMAGE TO THE PADS SHALL BE CAUSE FOR STOPPAGE OF FABRICATION OPERATION UNTIL CAUSE OF DAMAGE CAN BE REMEDIED.

THE CONTRACTOR SHALL RETAIN THE SOLE RESPONSIBILITY FOR THE MEANS, METHODS, AND TECHNIQUES OF CONSTRUCTION OF THE PADS AND FOR COMPLIANCE WITH LAWS. REGULATIONS, AND CODES, AND FOR THE SAFETY OF CONSTRUCTION APPLICABLE TO THIS

DETAILS	F.A.I RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
ERVICE PAD	*	(201-3)R & (4-1,5)R	WINNEBAGO	1685	533		
			CONTRACT NO. 64C				
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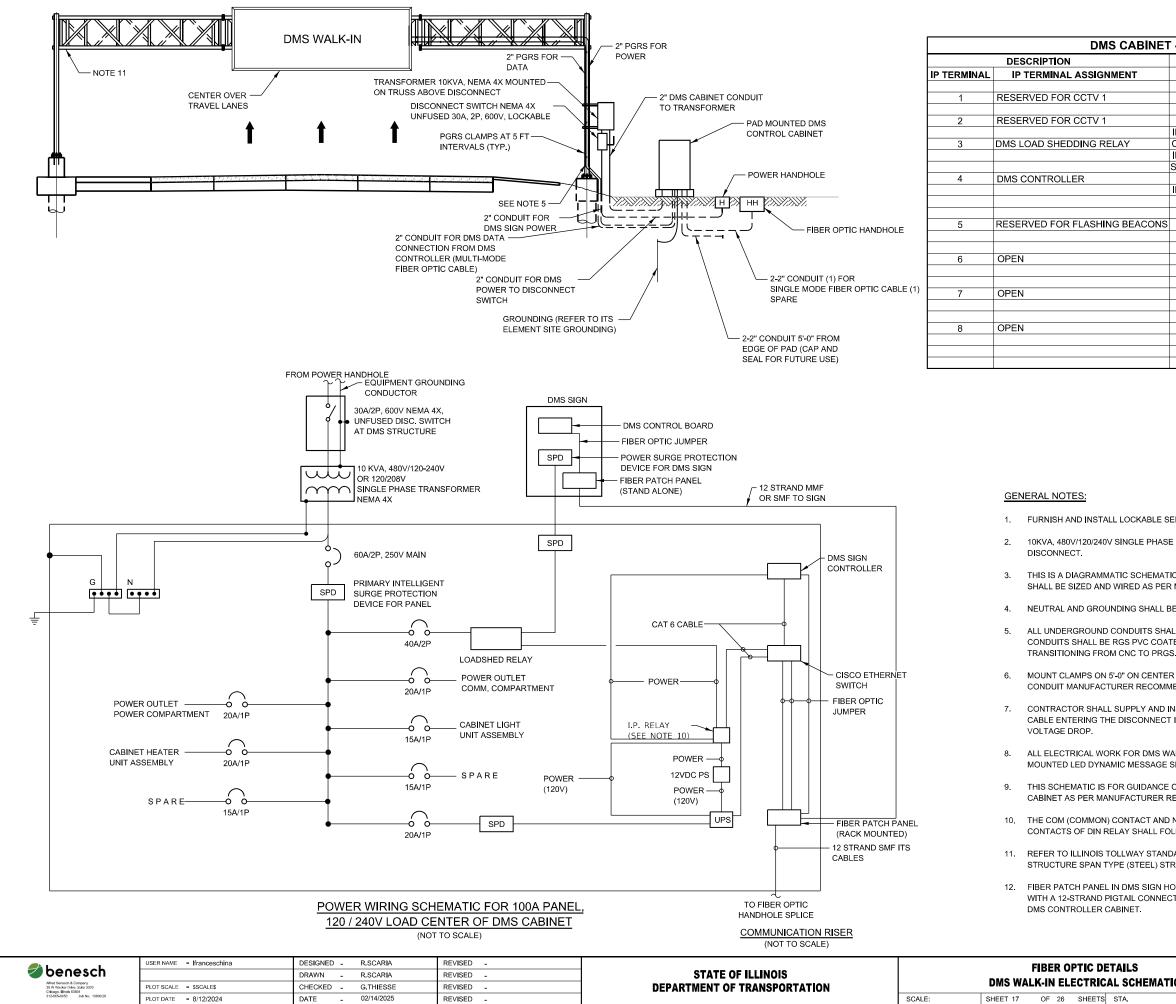
### NOTES:

- 1. TYPE A SERVICE PADS SHALL BE INSTALLED ON SLOPES UP TO AND INCLUDING 1:6 (V:H).
- TYPE B SERVICE PADS SHALL BE INSTALLED ON SLOPES GREATER THAN 1:6 AND LESS THAN 2. OR EQUAL TO 1:3 WHEN WELL BEYOND THE CLEAR ZONE.
- 3. TYPE C SERVICE PADS SHALL BE INSTALLED ON SLOPES GREATER THAN 1:3 AS SHOWN ON SHEET M-ITS-1003 SHEET 2 OF 2.
- ALL EXPOSED CONCRETE EDGES SHALL HAVE A 1" MINIMUM CHAMFER. 4
- CONTRACTOR SHALL TAKE PRECAUTIONS TO STABILIZE EXISTING ITS POLES AND HELIX FOUNDATIONS WHILE EXCAVATING SOIL FOR INSTALLATION OF CONCRETE SERVICE PADS.
- COMPACTED SOIL SHALL BE PLACED TO BE LEVEL WITH THE SERVICE PAD. CONTRACTOR MAY 6. USE EXCAVATED SOIL FROM PLACING THE PAD'S AGGREGATE BASE FOR GRADING PURPOSES WITH APPROVAL OF THE ENGINEER. SEEDING AND EROSION CONTROL SHALL BE PER THE GENERAL NOTES ON SHEET GN-08.
- 7. SOIL EXCAVATED FOR THE PURPOSE OF MAINTAINING A STABLE WORKING SLOPE WHILE INSTALLING THE SERVICE PAD SHALL BE REPLACED. BACKFILL SHALL BE EARTH WHICH IS FREE FROM DEBRIS, CINDERS, AND ROCKS MEASURING 2" OR GREATER IN DIAMETER. IN THE EVENT THAT EXCAVATED MATERIAL IS UNSUITABLE FOR USE AS BACKFILL, THE CONTRACTOR SHALL USE A CLEAN, NATURAL SAND. THIS SUBSTITUTE BACKFILL SHALL BE INCIDENTAL TO THE SERVICE PAD INSTALLATION AND WILL NOT BE PAID FOR SEPARATELY. ALL BACKFILL MATERIALS SHALL BE COMPACTED TO THE SATISFACTION OF THE ENGINEER.
- THE TOP SURFACE OF SOIL DISTURBED BY EXCAVATION FOR PLACING THE SERVICE PADS 8. SHALL BE SEEDED AND PROTECTED WITH EROSION CONTROL MEASURES PER THE GENERAL NOTES ON SHEET GN-08.
- SURFACE OF SERVICE PADS SHALL BE BROOM FINISHED. 9.
- 10. ALL EMBEDDED LIFTING HARDWARE USED SHALL BE GALVANIZED
- 11. FOR LIFTING INSERT, INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATION INCLUDING MINIMUM EDGE DISTANCE AND SPACING REQUIREMENTS AND HAVE A 4:1 SAFETY FACTOR
- 12. FOR LIFTING PLATES, INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND HAVE A STANDARD 5:1 SAFETY FACTOR FOR THE LIFTING HARDWARE.
- PRECAST SERVICE PADS SHALL BE TRANSPORTED IN SUCH A MANNER THAT THE PAD WILL NOT 13 BE DAMAGED DURING TRANSPORTATION. PLASTIC CORNER PIECES OR SHOCK-ABSORBING CUSHIONING MATERIAL SHALL BE USED AT ALL BEARING POINTS AND ALL EXPOSED CORNERS DURING TRANSPORTATION OF THE PRECAST ELEMENTS. PADS SHALL BE PROPERLY SUPPORTED DURING TRANSPORTATION SUCH THAT CRACKING OR DEFORMATION DOES NOT OCCUR, IF MORE THAN ONE PAD IS TRANSPORTED PER VEHICLE, PROPER SUPPORT AND SEPARATION MUST BE PROVIDED BETWEEN INDIVIDUAL PADS. PADS MUST BE LYING HORIZONTALLY DURING TRANSPORTATION, UNLESS OTHERWISE APPROVED.
- 14. PRECAST ELEMENT DAMAGED DURING HANDLING AND STORAGE SHALL BE REPAIRED OR REPLACED AT NO COST TO THE ILLINOIS TOLLWAY.
- 15. A PRECAST PAD SHALL NOT BE TRANSPORTED FROM THE CASTING YARD UNTIL A MINIMUM 5 DAY COMPRESSIVE STRENGTH SPECIFIED HAS BEEN ATTAINED.
- 16. MATERIAL QUALITY AND CONDITION AFTER SHIPMENT WILL BE INSPECTED AFTER DELIVERY TO THE CONSTRUCTION SITE, WITH THIS AND ANY PREVIOUS INSPECTIONS CONSTITUTING ON PARTIAL ACCEPTANCE.
- 17. REPAIR OF DAMAGE CAUSE TO THE PADS DURING FABRICATION, LIFTING AND HANDLING, OR TRANSPORTATION SHALL BE ADDRESSED ON A CASE-BY-CASE BASIS. DAMAGE WITHIN ACCEPTABLE LIMITS CAUSED TO THE TOP OF THE SURFACES OR TO KEYED EDGES OF THE PADS SHALL BE REPAIRED USING AN APPROVED REPAIR METHOD AT THE FABRICATION PLANT AT THE EXPENSE OF THE CONTRACTOR. REPETITIVE DAMAGE TO THE PADS SHALL BE CAUSE FOR STOPPAGE OF FABRICATION OPERATION UNTIL CAUSE OF DAMAGE CAN BE REMEDIED.
- 18. THE CONTRACTOR SHALL RETAIN THE SOLE RESPONSIBILITY FOR THE MEANS, METHODS, AND TECHNIQUES OF CONSTRUCTION OF THE PADS AND FOR COMPLIANCE WITH LAWS, REGULATIONS, AND CODES, AND FOR THE SAFETY OF CONSTRUCTION APPLICABLE TO THIS WORK.



benesch	USER NAME = Ifranceschina	DESIGNED - R.SCARIA	REVISED -		FIBER OPTIC DETAILS						F.A.I RTE	SECTION	COUNTY
		DRAWN - R.SCARIA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION SCAL	ITS CONCRETE SERVICE PAD					*	(201-3)R & (4-1,5)R	WINNEBAGO	
Alfred Benesch & Company 35 W Wacker Drive, Skille 3300 Chloago, Illinois 60601 312-565-0450 Job No. 10800.00	PLOT SCALE = \$SCALE\$	CHECKED - G.THIESSE	REVISED -		ITS CONCRETE SERVICE PAD							CONTRAC	
312-565-0450 Job No. 10800.00	PLOT DATE = 8/12/2024	DATE _ 02/14/2025	REVISED -		SCALE:	SHEET 16	i (	DF 26	SHEETS	STA.	TO STA.		ILLINOIS FED. A
					* FAI ROUTE 39 (I-3					* FAI ROUTE 39 (I-39) & FAP 301	(US 20 <del>)</del>	•	

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′ 1								
	IP RELAY	12VDC (+)	СВ	CB1A				
RELAY	CB	CB1B	P RELAY	3 COMM				
	IP_RELAY	3 NC	LOAD SHED RELAY	COIL (+)				
	SPLICE BLOCK	120V	IP_RELAY	NC				
	IP_RELAY	4NC	POWER OUTLET#1					
			(COMMUNICATION)					
HING BEACON	\$							
INO BEAGON	0							
		1						

1. FURNISH AND INSTALL LOCKABLE SERVICE DISCONNECT AT PROPOSED STRUCTURE.

2. 10KVA, 480V/120/240V SINGLE PHASE TRANSFORMER SHALL BE MOUNTED ABOVE

THIS IS A DIAGRAMMATIC SCHEMATIC, ALL BREAKERS, TRANSFORMER LOAD CENTER SHALL BE SIZED AND WIRED AS PER MANUFACTURER RECOMMENDATIONS.

NEUTRAL AND GROUNDING SHALL BE BONDED AT SERVICE ENTRANCE DISCONNECT.

ALL UNDERGROUND CONDUITS SHALL BE NON-METALLIC CNC AND ABOVE GRADE CONDUITS SHALL BE RGS PVC COATED. COUPLERS SHALL BE UTILIZED WHEN

MOUNT CLAMPS ON 5'-0" ON CENTER MOUNTING. HARDWARE SHALL BE USED AS PER CONDUIT MANUFACTURER RECOMMENDATION.

7. CONTRACTOR SHALL SUPPLY AND INSTALL CABLE REDUCER LUGS WHERE SIZE OF CABLE ENTERING THE DISCONNECT IS MORE THAN RECOMMENDED SIZE DUE TO

8. ALL ELECTRICAL WORK FOR DMS WALK-IN SHALL BE PAID UNDER PAY ITEM "TRUSS MOUNTED LED DYNAMIC MESSAGE SIGN - TOLLWAY"

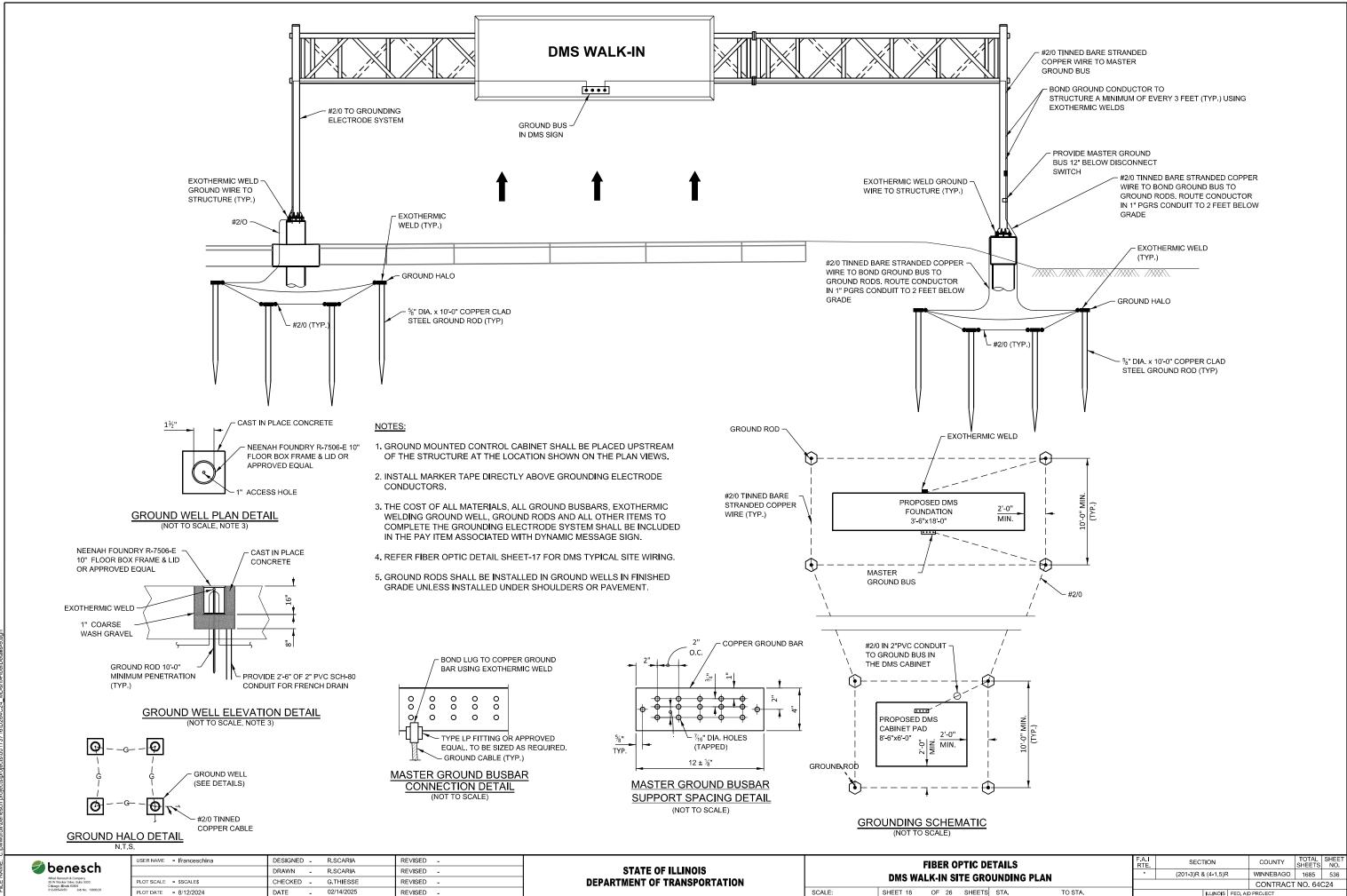
THIS SCHEMATIC IS FOR GUIDANCE ONLY. CONTRACTOR SHALL WIRE THE DMS CABINET AS PER MANUFACTURER RECOMMENDATIONS AND INDUSTRY STANDARDS.

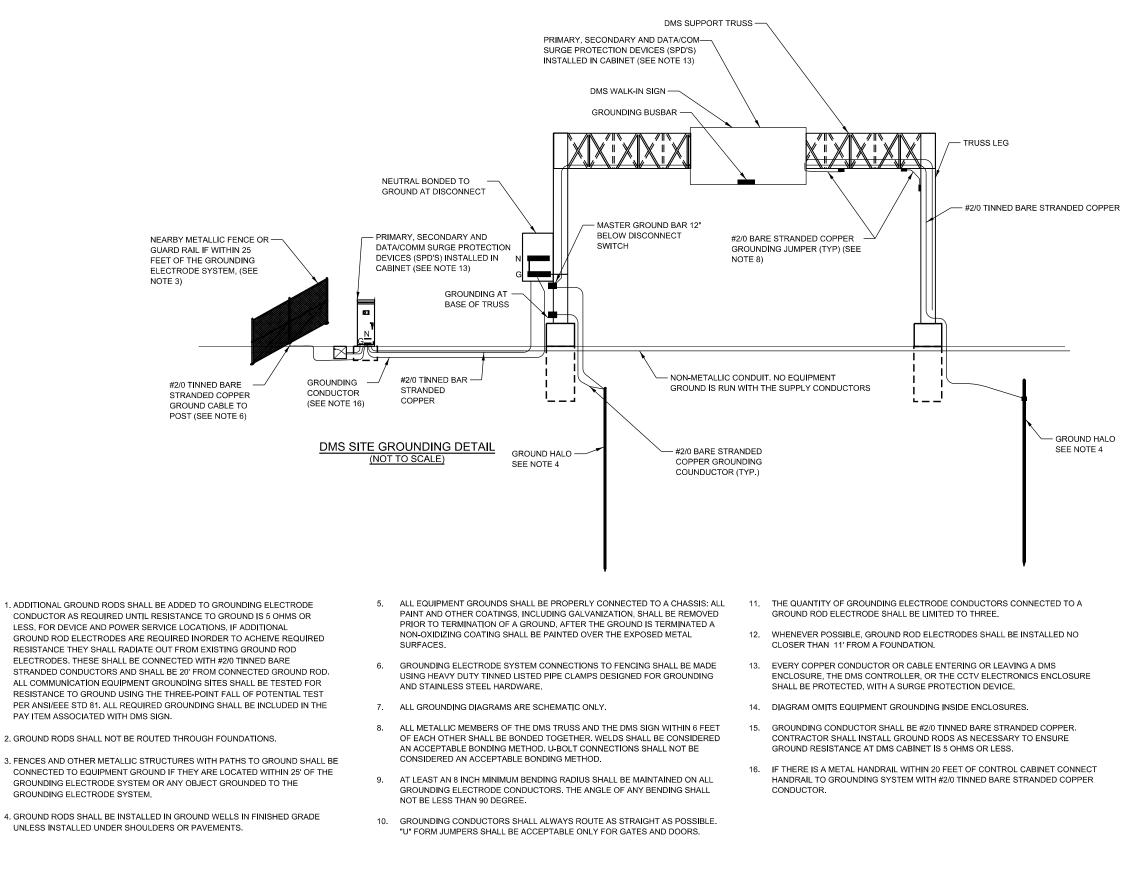
10. THE COM (COMMON) CONTACT AND NC (NORMALLY CLOSED) CONTACT ON RELAY CONTACTS OF DIN RELAY SHALL FOLLOW THE TABLE ABOVE.

11. REFER TO ILLINOIS TOLLWAY STANDARD DRAWING F17 FOR OVERHEAD SIGN STRUCTURE SPAN TYPE (STEEL) STRUCTURE DETAILS.

12. FIBER PATCH PANEL IN DMS SIGN HOUSING SHALL BE A FACTORY TERMINATED UNIT WITH A 12-STRAND PIGTAIL CONNECTING TO RACK MOUNTED FIBER PATCH PANEL IN

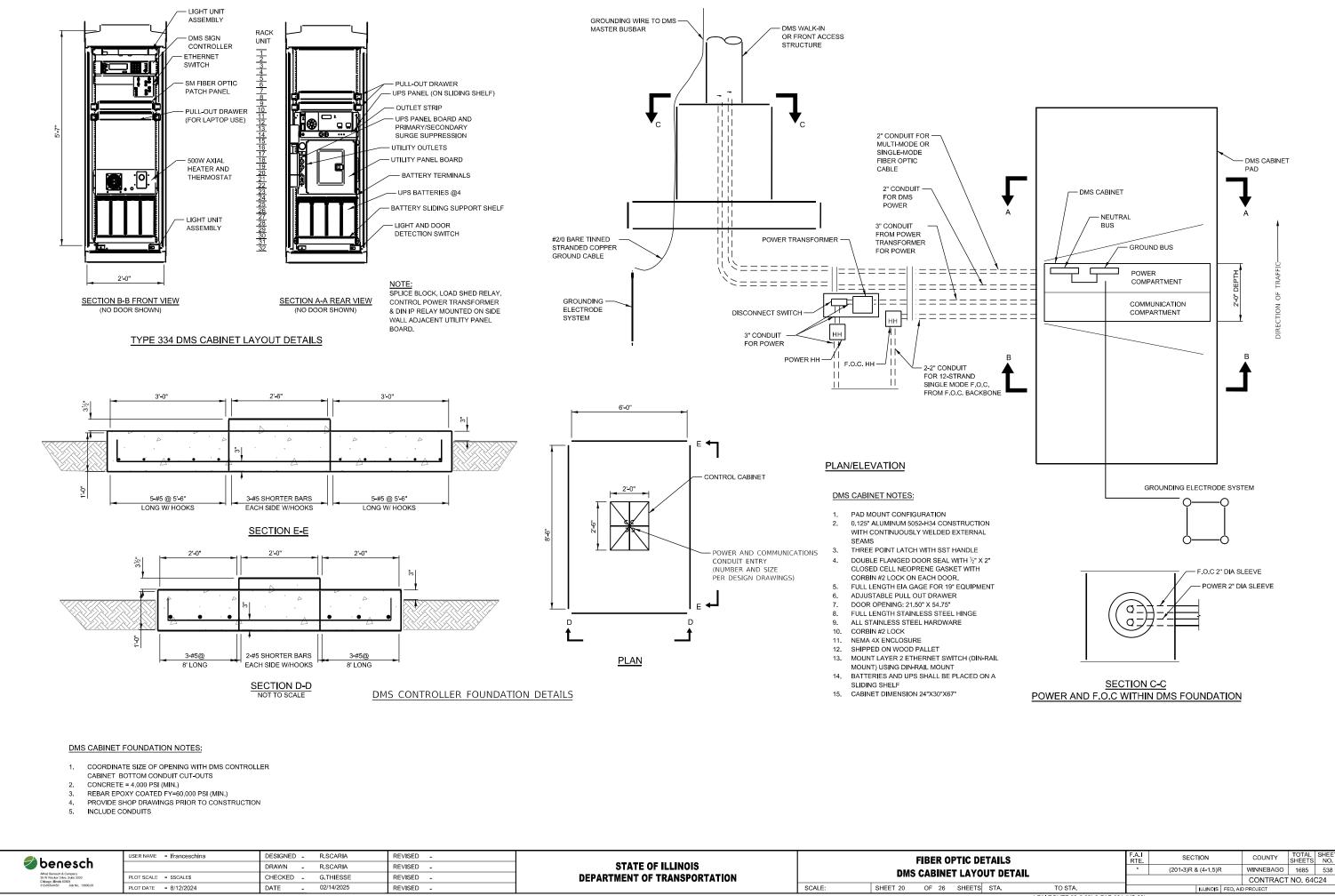
DETAILS			F.A.I RTE	SEC	COUNTY	TOTAL SHEETS	SHEET NO.		
IC.	ICAL SCHEMATIC			(201-3)R & (4-1,5)R			WINNEBAGO	1685	535
				C				CONTRACT NO. 64C24	
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- 1. ADDITIONAL GROUND RODS SHALL BE ADDED TO GROUNDING ELECTRODE CONDUCTOR AS REQUIRED UNTIL RESISTANCE TO GROUND IS 5 OHMS OR LESS. FOR DEVICE AND POWER SERVICE LOCATIONS, IF ADDITIONAL GROUND ROD ELECTRODES ARE REQUIRED INORDER TO ACHEIVE REQUIRED RESISTANCE THEY SHALL RADIATE OUT FROM EXISTING GROUND ROD ELECTRODES. THESE SHALL BE CONNECTED WITH #2/0 TINNED BARE STRANDED CONDUCTORS AND SHALL BE 20' FROM CONNECTED GROUND ROD. ALL COMMUNICATION EQUIPMENT GROUNDING SITES SHALL BE TESTED FOR RESISTANCE TO GROUND USING THE THREE-POINT FALL OF POTENTIAL TEST PER ANSI/EEE STD 81. ALL REQUIRED GROUNDING SHALL BE INCLUDED IN THE PAY ITEM ASSOCIATED WITH DMS SIGN.
- 3. FENCES AND OTHER METALLIC STRUCTURES WITH PATHS TO GROUND SHALL BE CONNECTED TO EQUIPMENT GROUND IF THEY ARE LOCATED WITHIN 25' OF THE GROUNDING ELECTRODE SYSTEM OR ANY OBJECT GROUNDED TO THE GROUNDING ELECTRODE SYSTEM.
- 4. GROUND RODS SHALL BE INSTALLED IN GROUND WELLS IN FINISHED GRADE UNLESS INSTALLED UNDER SHOULDERS OR PAVEMENTS.

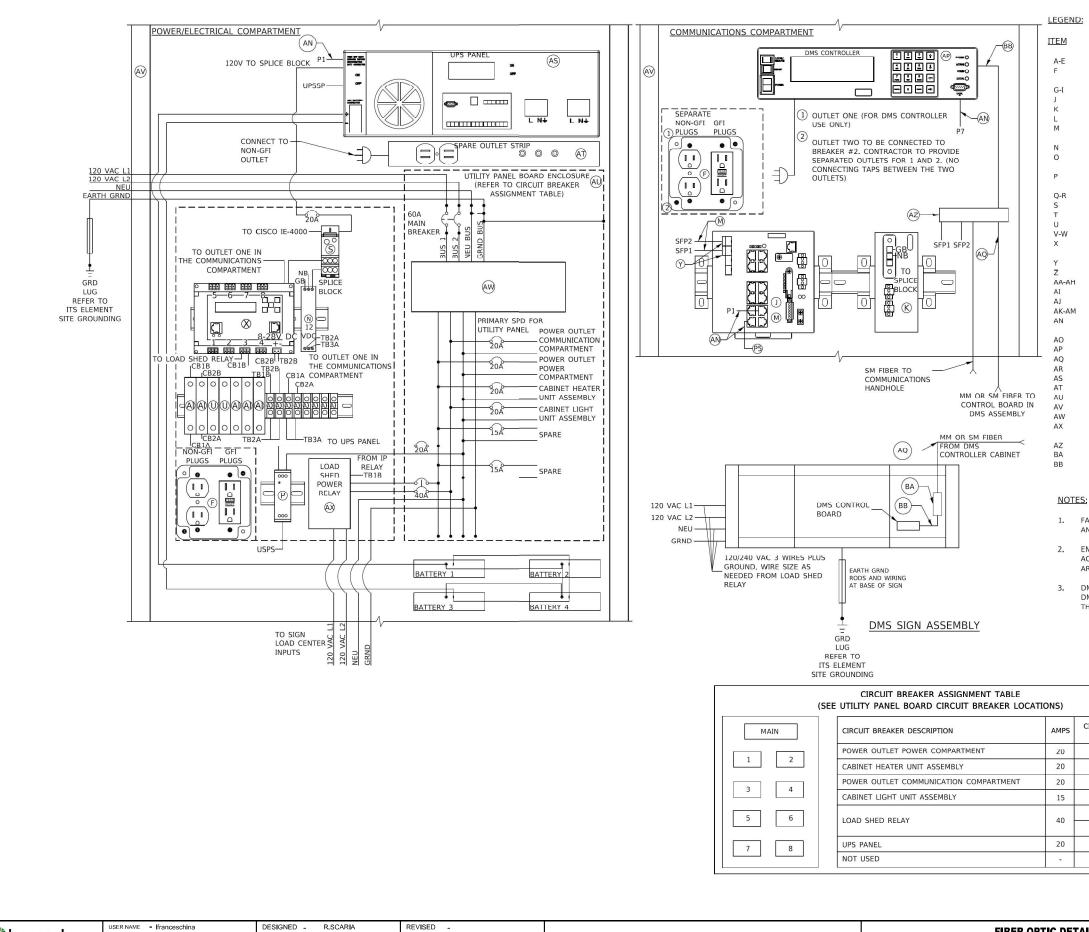
🧥 haaaaa h	USER NAME = Ifranceschina	DESIGNED - R.SCARIA	REVISED -			FIBER OPTIC	DETAILS	F.A.I RTE	SECTION	COUNTY	TOTAL	SHEET
🥑 benesch		DRAWN - R.SCARIA	REVISED -	STATE OF ILLINOIS		DMS WALK-IN TYPICAL S		*	(201-3)R & (4-1,5)R	WINNEBAGO	1685	537
Alfred Benesch & Company 35 W Witcker Drive, Saite 3300 Chicago, Illinois 60601 312-865-9450 Job No. 10800.00	PLOT SCALE = \$SCALE\$	CHECKED - G.THIESSE	REVISED -	DEPARTMENT OF TRANSPORTATION		DIVIS WALK-IN ITPICAL S				CONTRACT	NO. 64C	24
312-665-0450 Job No. 10800.00	PLOT DATE = 8/12/2024	DATE _ 02/14/2025	REVISED -		SCALE:	SHEET 19 OF 26 SHEE	"S STA. TO STA.		ILLINOIS FED.	AID PROJECT		



MODEL:

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Alford Benearsh A Company Alford Benearsh A Company Alford Benearsh A Company Alford Benear Colors Chalage Bindle Goroll 312-35547450 Julye Hen, 10800.00		DRAWN - R.SCARIA	REVISED -	STATE OF ILLINOIS	DMS CABINET LAYOU			
	PLOT SCALE = \$SCALE\$	CHECKED - G.THIESSE	REVISED -	DEPARTMENT OF TRANSPORTATION		DMS CABINET	LAYOU	
312-565-0450 Job No. 10800.00	PLOT DATE = 8/12/2024	DATE _ 02/14/2025	REVISED -		SCALE:	SHEET 20 OF 26 S	SHEETS S	

\* FAI ROUTE 39 (I-39) & FAP 301 (US 20) •

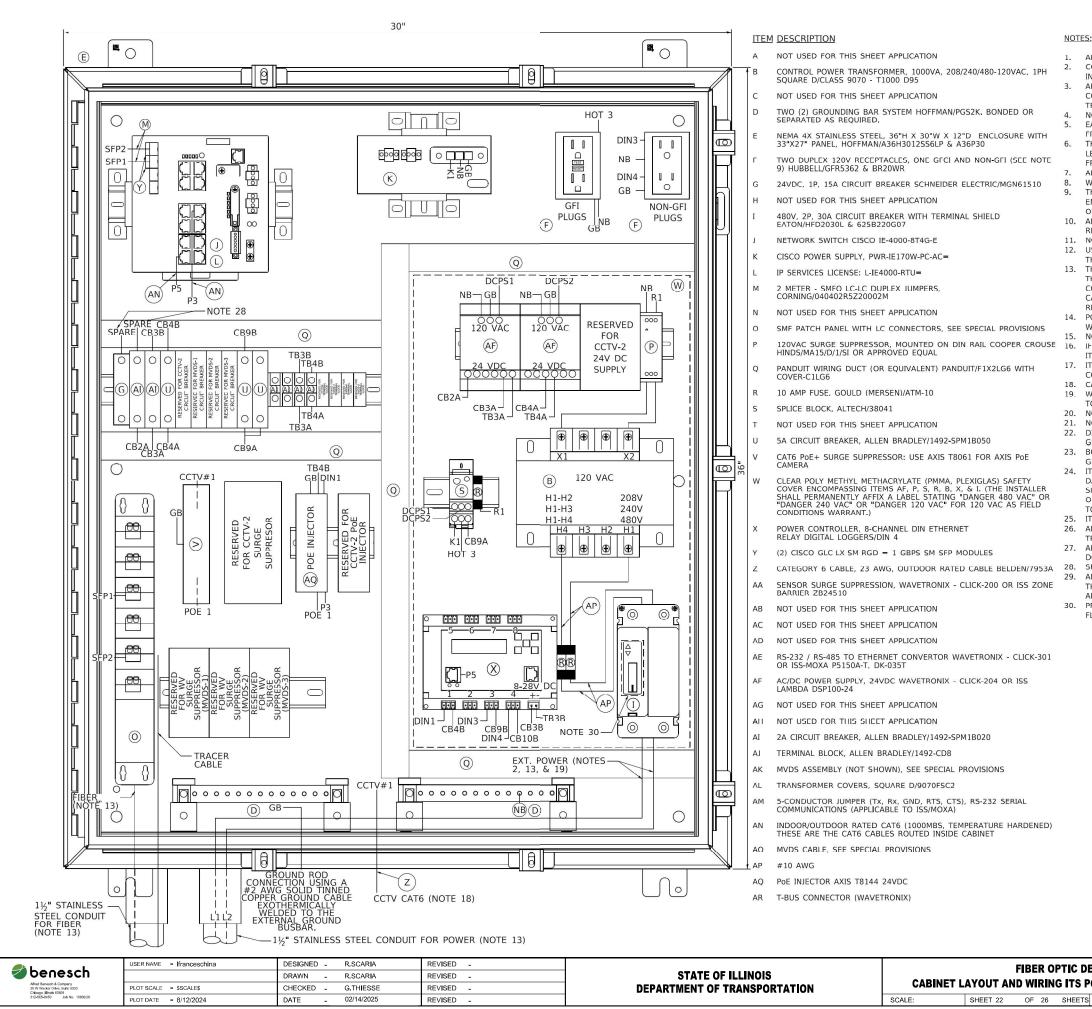


benesch	USER NAME = Ifranceschina	DESIGNED - R.SCARIA	REVISED -			FIBER OPTIC DETAILS	F.A.I RTE	SECTION	COUNTY TOTAL SHEET SHEETS NO.
		DRAWN - R.SCARIA	REVISED -	STATE OF ILLINOIS		DMS CABINET WIRING DIAGRAM	*	(201-3)R & (4-1,5)R	WINNEBAGO 1685 539
Alfred Benesch & Company 35 W Wacker Drive, Saite 3300 Chicago, Winols 60601 312-565-0450 Job No, 10800.00	PLOT SCALE = \$SCALE\$	CHECKED - G.THIESSE	REVISED -	DEPARTMENT OF TRANSPORTATION				-	CONTRACT NO. 64C24
312-565-0450 Job No. 10800.00	PLOT DATE = 8/12/2024	DATE _ 02/14/2025	REVISED -		SCALE:	SHEET 21 OF 26 SHEETS STA. TO STA.		ILLINOIS FED	D. AID PROJECT

М	DESCRIPTION
-Е	NOT USED TWO DUPLEX 120V RECEPTACLES, ONE GFCI (HUBBELL GFR5362TR) AND ONE STANDARD (HUBBELL BR20WR)
-1	NOT USED NETWORK SWITCH CISCO IE-4000-8T4G-E CISCO POWER SUPPLY, PWR-IE170W-PC-AC= IP SERVICES LICENSE: L-IE4000-RTU= 2 METER - SMFO LC-SC DUPLEX JUMPERS, CORNING/047202R5120002M AC/DC POWER SUPPLY, 12VDC, 10 WATTS, MEAN WELL/MDR-10-12 SMF PATCH PANEL WITH SC CONNECTORS FIBER CONNECTIONS G620U012 LAN-100-0 120VAC SURGE SUPPRESSOR, MOUNTED ON DIN RAIL COOPER CROUSE HINDS/MA15/D/1/SI OR APPROVED EQUAL
-R	NOT USED SPLICE BLOCK, ALTECH/38041 NOT USED SA CIRCUIT BREAKEF, ALLEN BRADLEY/1492-SPM1B050
-W	NOT USED POWER CONTROLLER, 8-CHANNEL DIN ETHERNET RELAY DIGITAL LOGGERS/DIN 4 (2) GLC-LX-SM-RGD = 1 GBPS SM SFP MODULES
	NOT USED
а-ан I I K-АМ	NOI USED 2A CIRCUIT BREAKER, ALLEN BRADLEY/1492-SPM1D020 TERMINAL BLOCK, ALLEN BRADLEY/1492-CD8 NOT USED
N	INDOOR/OUTDOOR RATED CAT6 (1000MBS, TEMPERATURE HARDENED) THESE ARE THE CAT6 CABLES ROUTED INSIDE CABINET
D P	NOT USED DMS CONTROLLER
Q R	12-STRAND MULTI-MODE OR SINGLE-MODE FIBER OPTIC CABLE NOT USED
S T	UPS PANEL ALPHA TECHNOLOGIES FXM1100 WITH BATTERIES OUTLET STRIP
U	DMS MANUFACTURER UTILITY PANEL ENCLOSURE
V	DMS CONTROL CABINET TYPE 334 NEMA 4X
X	120/240VAC MTL ZONE DEFENDER MODEL ZD16100 LOAD SHED POWER RELAY MAGNECRAFT MODEL 199X-12 WITH COVER
Z	RACK MOUNTED FIBER PATCH PANEL
<b>д</b>	STAND ALONE FIBER PATCH PANEL
В	2 METER FIBER JUMPER, CORNING (TYPE AND CONNECTION PER DMS MANUFACTURER)

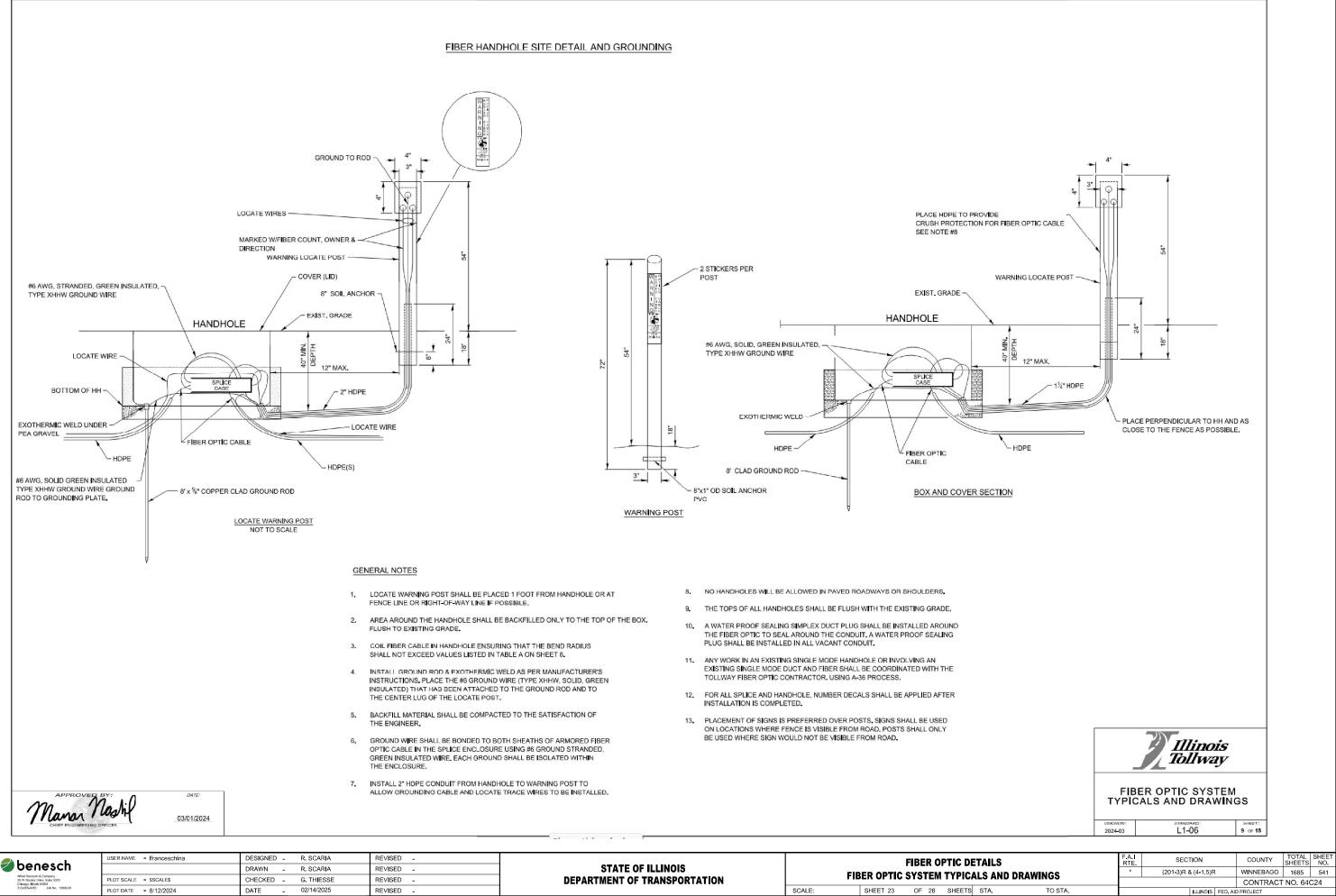
- 1. FABRICATOR TO PROVIDE CABINET DRAWINGS SUBMITTAL FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
- 2. ENTIRE COMPLETED SYSTEM SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH MOTOROLA R56 MANUAL AND THE APPLICABLE ARTICLES OF SECTION 250 OF THE NATIONAL ELECTRICAL CODE,
- DMS CONTROLLER SHOWN REPRESENTS A GENERIC DMS CONTROLLER. DMS CONTROLLERS ARE SUPPLIED BY THE DMS MANUFACTURER AND THEREFORE THE FRONT PANEL MAY DIFFER.

PS	CIRCUIT BREAKER LOCATION	
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- ALL POWER WIRING SHALL BE RHH/RHW WITH WIRE TERMINALS OR TINNED. CONTRACTOR TO VERIFY CORRECT TRANSFORMER TAPS ARE USED BASED ON INCOMING POWER SOURCE.
- ALL CABLES AND EQUIPMENT SHALL BE PROPERLY DRESSED AND LABELED. ALL CONDUITS SHALL BE PROPERLY PLUGGED WITH DUCT SEAL PUTTY (RAINBOW TECHNOLOGIES OR EQUIVALENT).
- NOT USED
- EACH 120VAC OUTLET, PS CR TRANSFORMER (ITEM F, K, L, & AF) SHALL BE FED FROM A SEPARATE INPUT LINE.
- THE DIN RAIL(S) FOR ITEMS J & K SHALL BE INSTALLED WITH THE CENTER LINE NO LESS THAN 5 INCHES FROM ANY OBSTACLE ABOVE AND NO LESS THAN 4 INCHES FROM ANY OBSTACLE BELOW. ALL DIN RAIL SHALL BE GROUNDED.
- ALL CABLES INSTALLED WITHIN THE CABINET AND POLE SHALL BE OUTDOOR RATED. WIFI COMMUNICATION SHALL BE DISABLED ON DIN ETHERNET RELAY,
- THE GFI OUTLETS LOAD SHALL NOT BE CONNECTED TO ANY OTHER LOAD IN THE ENCLOSURE, THE GFI'S ARE INTENDED TO BE UTILIZED FOR EXTERNAL EQUIPMENT ONLY. EACH OUTLETS TAB SHALL BE BROKEN SO THEY ARE INDEPENDENT. ALL BREAKERS SHALL BE LABELED (E.G. CAMERA-AC, CAMERA-DC, DIN RELAY-AC, DIN RELAY-DC, CELL MODEM-AC ETC.).
- NOT USED FOR THIS SHEET APPLICATION
- 12. USE THE MOUNTING TABS ON THE IP RELAY UNIT TO MOUNT THE UNIT DIRECTLY TO THE BACK PLATE. REFER TO THE IP RELAY WIRING TABLE FOR WIRING DETAILS. THE FIBER CABLE SHALL RUN STRAIGHT DOWN FROM THE GATOR PATCH THROUGH
  - THE LEFT MOST CONDUIT. THE POWER CABLE SHALL BE PULLED THROUGH THE CONDUIT TO THE RIGHT OF THE FIBER CONDUIT. NO SLACK SHALL BE PLACED IN THE CABINET. ALL POWER AND COMMUNICATION CABLE SLACK SHALL BE PLACED IN THEIR RESPECTIVE HANDHOLES.
- 14. POWER FEED TO THE CISCO IE4000 SWITCH SHALL BE FROM THE 120VAC INPUT WHEN THE ENCLOSURE IS AC POWERED.
  - NOT USED FOR THIS SHEET APPLICATION
  - IF A SOLAR GENERATOR IS CONNECTED, THEN ITEM P AND THE SECONDARY SIDE OF ITEM B SHALL BE CONNECTED UNTIL A FINAL AC CONNECTION IS MADE. ITEM X IS USED TO CONTRCL POWER TO THE CAMERAS AND DETECTORS. ALL 120VAC
  - CONNECTIONS ON ITEM X SHALL BE PROTECTED.
- CABLES TO BE ROUTED THROUGH POLE. WHEN A 24VDC TO 120VAC POWER GENERATOR IS CONNECTED, THEN THE 480VAC TO 120VAC STEP DOWN TRANSFORMER IS BYPASSED.
- NOT USED FOR THIS SHEET APPLICATION. 21. NOT USED FOR THIS SHEET APPLICATION
- 22. DIN RAIL SHALL BE INSTALLED AS ILLUSTRATED ON DRAWING. DIN RAIL SHALL BE GROUNDED TO THE GROUND BUS,
  - BOND NEUTRAL AND GROUND BUSES TOGETHER, TIE THE ENCLOSURE INTO THE GROUND BUS.
- 24. ITEM W SHALL BE FORMED AND MOLDED TO FIT AROUND THE AREA DENOTED BY THE DASHED LINE. THE PLEXIGLASS SHALL BE MOUNTED TO THE BACKPLATE WITH SUFFICIENT AIR HOLES TO ALLOW HEAT TO ESCAPE THE AREA, THERE SHALL ALSO BE
  - OPENINGS ON THE BOTTOM TO ALLOW CABLES TO BE PASSED FROM THE AC SECTION TO THE OTHER SECTIONS OF THE ENCLOSURE.
  - ITEM AL SHALL BE PLACED ON ITEM B.
  - ALL INTERNAL ENCLOSURE ROUTED AND TERMINATED CAT6 CABLE SHALL BE TEMPERATURE RATED.
  - ALL INTERNAL 24VAC, 120VAC (STARTING ON SECONDARY SIDE OF ITEM B) AND ANY DC VOLTAGE POWER FEEDS USE #16 AWG CABLE.
  - SPARE BREAKER RESERVED.
  - ALL CONDUIT EXITING THE BOTTOM OF THE CABINET SHALL BE INSTALL IN-LINE WITH THE EQUIPMENT IT IS CONNECTED TO. THE CABLES SHALL BE INSTALLED IN A NEAT AND PROFESSIONAL MANNER
  - PROVIDE WINDOW IN PMMA SHIELD FOR ACCESS TO BREAKER. MOUNT BREAKER FLUSH WITH PMMA SHIELD USING MOUNTING BRACKET.

)E	ETAILS			SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
POLE MOUNTED ENCLOSURE			* (201-3)R & (4-1,5)R			WINNEBAGO	1685	540
						CONTRACT	NO. 64	C24
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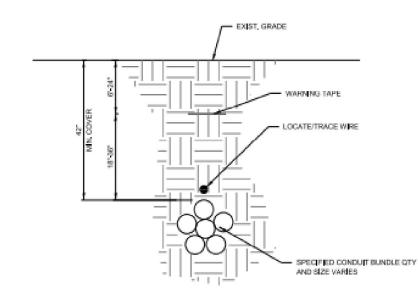
We benesch Merterste A Compact With Start Obs. Sala 330 Charge Merker Obs. Start Start Obs. Sala 330 Charge Merker Obs. Sala 330 Charge Merker Obs. Sala 330 Start Start Start Obs. Sala 330 Start Start Star	USER NAME = Ifranceschina PLOT SCALE = SSCALE\$	DESIGNED - R. SCARIA DRAWN - R. SCARIA CHECKED - G. THIESSE	REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FI	ا BER OPTIC S		ОРТ <b>і</b> с і м түрі(	
312-885-0450 Job No. 10800.00	PLOT DATE = 8/12/2024	DATE _ 02/14/2025	REVISED -		SCALE:	SHEET 23	OF 26	SHEET	'S S

#### TYPES OF BURY

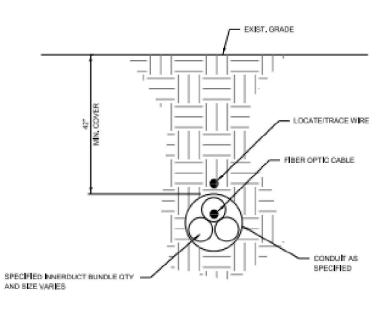
CABLE AND CONDUIT BORED, TRENCHED, AND PLOWED

#### GENERAL NOTES:

- UNDERGROUND CONDUIT SHALL BE PLACED AT 42" MINIMUM COVER UNLESS OTHERWISE SPECIFIED ١. ON THE PLANS.
- UNDERGROUND CONDUIT SHALL BE PLACED AT 48" MINIMUM COVER UNDER STREAM, CREEK AND 2. DRAINAGE DITCHES UNLESS OTHERWISE SPECIFIED ON THE PLANS.
- IF WHILE LOWERING THE CONDULT THERE IS NOT ENOUGH SLACK, ADDITIONAL CONDULT SHALL BE 3. ADDED. EMPTY CONDULTS CAN BE OUT AND HAVE NEW CONDULT FUSED OR COMPRESSION COUPLED. ON CONDUTS WITH FIBER INSTALLED SHALL BE RING CUT WITH A TUBE CUTTER SO AS NOT TO DAMAGE THE FIBER.
- CONDUIT USED ABOVE GROUND SHALL BE STAINLESS STEEL OR FIBERGLASS REINFORCED EPOXY 4. (FRE) CONDUIT, UNDERGROUND CASINGS SHALL BE FRE PER THE SPECIAL PROVISIONS OR HDPE.
- LOCATE/TRACE WIRE SHALL BE DIRECT BURIED WITH EVERY CONDUIT BUNDLE PATH AS CLOSE TO THE CENTER OF THE CONDUITS AS POSSIBLE LOCATE/TRACE WIRE SHALL NOT BE INSTALLED IN A 5. CONDUIT WITHOUT APPROVAL OF THE ENGINEER.
- WHEN AN OPTIC FIBER CONDUIT SEPARATES FROM A CONDUIT BUNDLE OR DUCT BANK, AN 6. ADDITIONAL LOCATE WIRE SHALL BE INSTALLED WITH THAT SEPARATE CONDUCT PATH GOING BACK TO THE PREVIOUS HANDHOLE.
- ALL LOCATE/TRACE WIRE WILL BE TESTED PER SPECIFICATIONS PRIOR TO ANY FIBER BEING 7. NSTALLED.
- 8. ALL UNUSED CONDULT SHALL HAVE 1200 LB MULE TAPE INSTALLED FOR FUTURE USE.



PLOWED CONDUIT BUNDLES **<u>QTY VARIES</u>** 

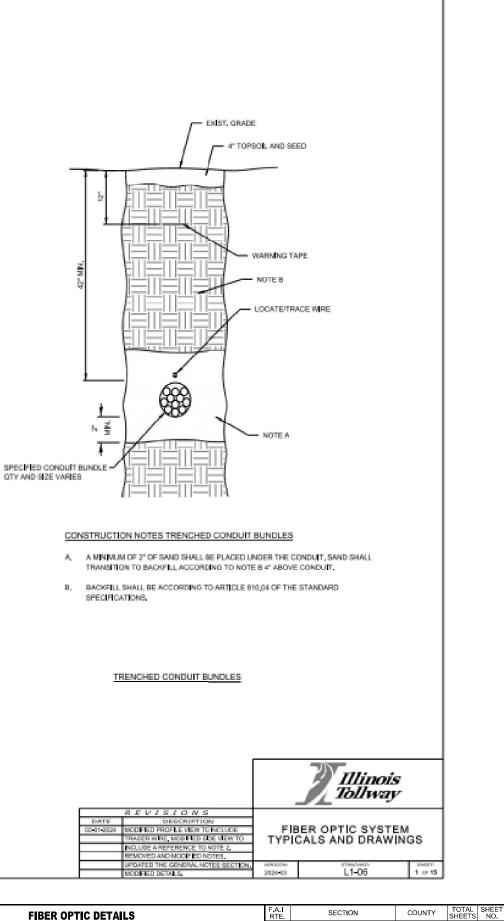


BORED CONDUIT WITH FIBER OPTIC CABLE AND/OR MULTIPLE INNERDUCTS AS REQUIRED

#### NOTE:

THE PICTURE ABOVE IS A CONCEPT LAYOUT.





	USER NAME = Ifranceschina	DESIGNED - R. SCARIA	REVISED -		FIBER OPTIC DETAILS						
🌌 benesch		DRAWN - R. SCARIA	REVISED -	STATE OF ILLINOIS							
Alfred Benesch & Compsny 35 W Wacker Drive, Saite 3300 Chicaso, Illinois 63001	PLOT SCALE = \$SCALE\$	CHECKED - G, THIESSE	REVISED -	DEPARTMENT OF TRANSPORTATION	FIL	BER OPTIC	SYSTEM	IYPICA	ALS AND DRAW	INGS	
Chicago, Illinois 50601 312-565-0450 Job No. 10800.00	PLOT DATE = 8/12/2024	DATE _ 02/14/2025	REVISED -		SCALE:	SHEET 24	OF 26	SHEETS	STA.	TO STA.	

QTY AND SIZE VARIES

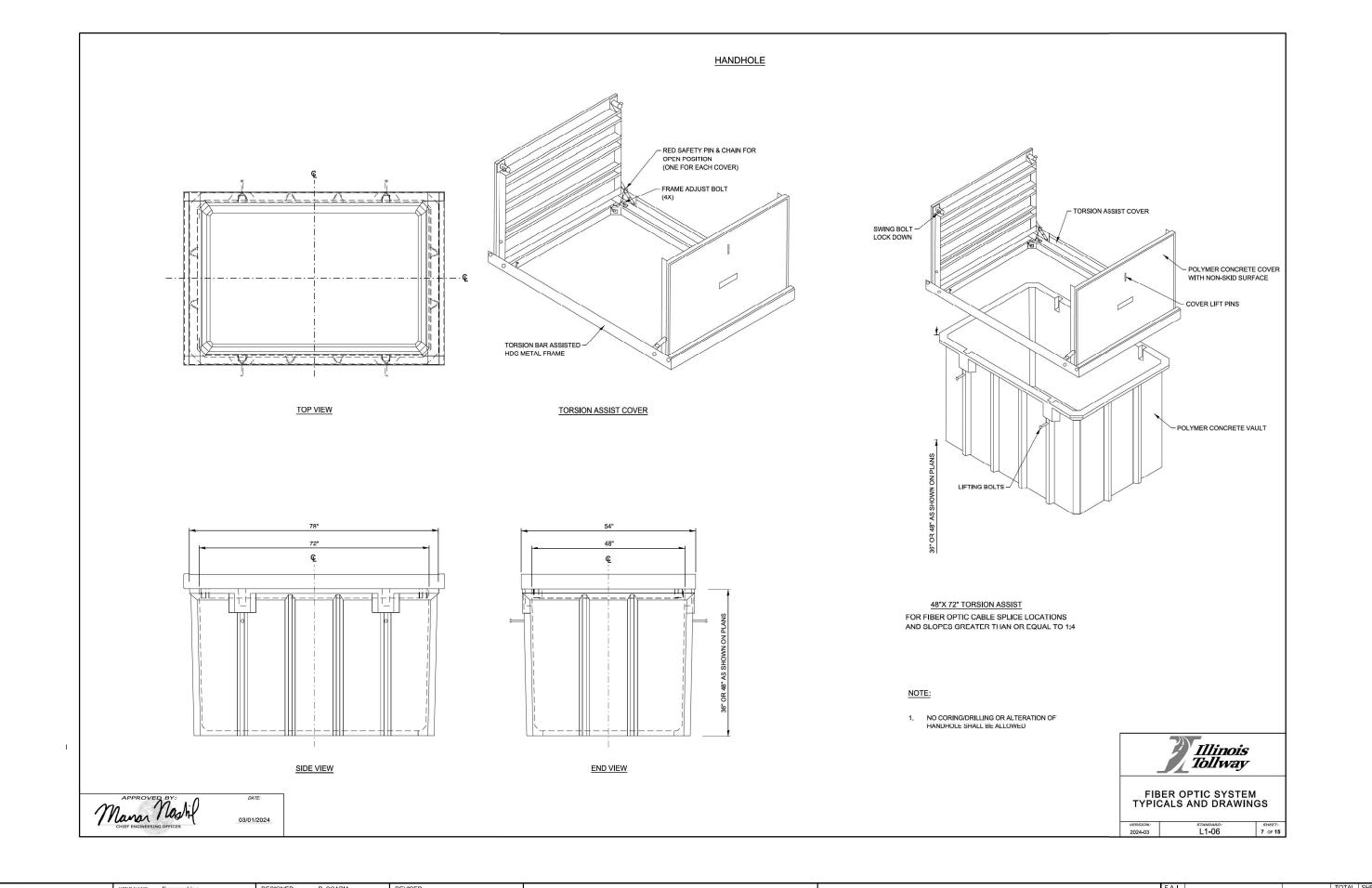
\* FAI ROUTE 39 (I-39) & FAP 301 (US 20) •

(201-3)R & (4-1,5)R

ILLINOIS FED. AID PROJECT

WINNEBAGO 1685 542

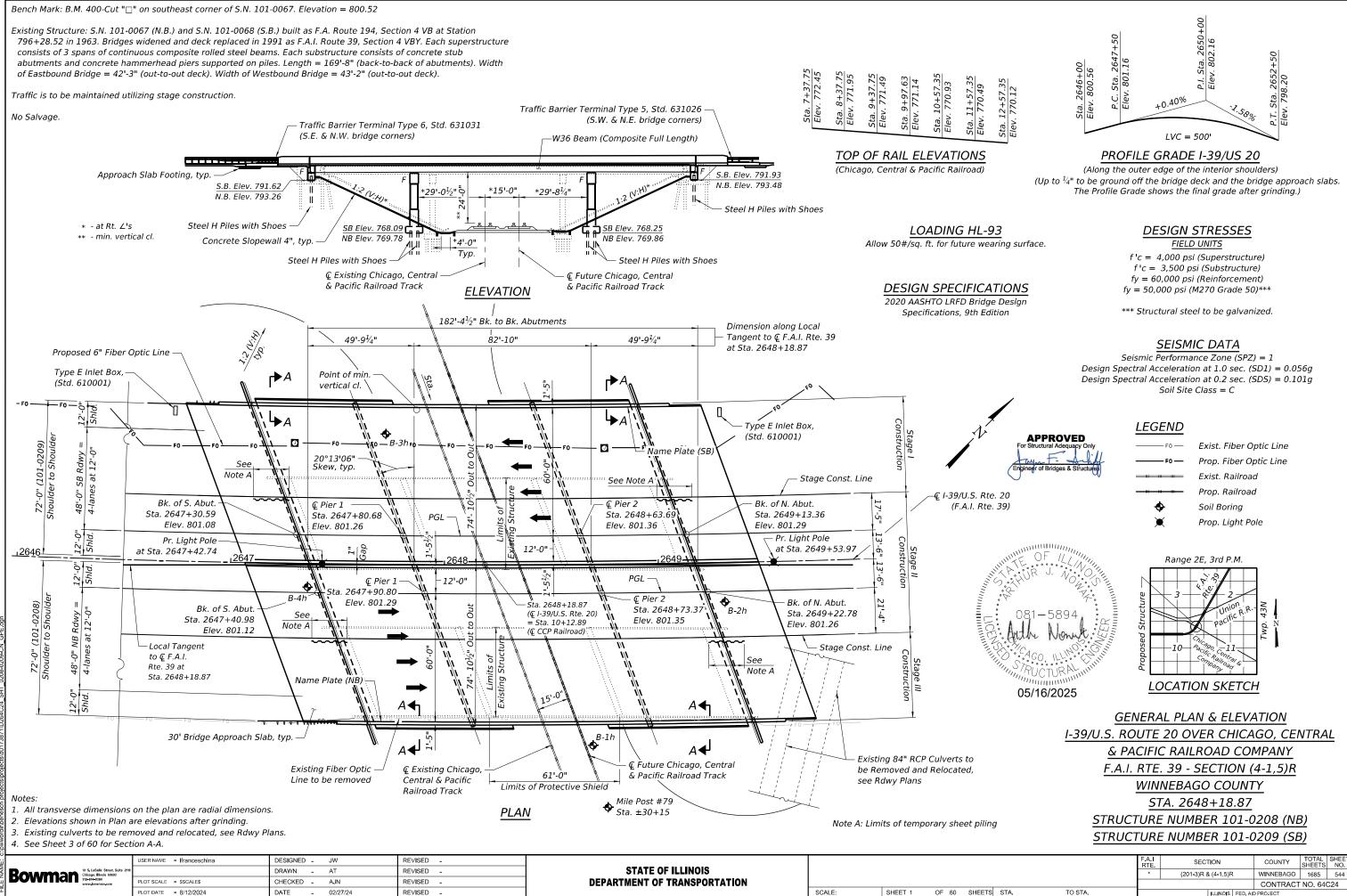
CONTRACT NO. 64C24



t] 24_ML-sht-FiberI	
MODEL: COMMICATIONS VAULT COMPOSITE CONCRETE [Sheet] FILE NAME: c:pwwodribenesch projectsprojectsJo01737/60/D24C24_ML-shi-FiberD	

nesch 🏈 benesch	USER NAME = Ifranceschina	DESIGNED - R. SCARIA DRAWN - R. SCARIA	REVISED - REVISED -	STATE OF ILLINOIS	FIBER OPTIC DE COMMUNICATIONS VAULT. CO						
Alfred Benesch & Company 35 W Wacker Drive, Saita 3300 Colecen Winck S0601	PLOT SCALE = \$SCALE\$	CHECKED - G. THIESSE	REVISED -	DEPARTMENT OF TRANSPORTATION	CON	MUNICATIC	UNS VA	ULI, CC	OMPO		
Chicago, Illinois 60601 312-565-0450 Job No. 10800.00	PLOT DATE = 8/12/2024	DATE _ 02/14/2025	REVISED -		SCALE:	SHEET 25	OF 26	SHEETS	STA		

DETAILS			F.A.I RTE	F.A.I SECTION			COUNTY	TOTAL SHEETS	SHEET NO.
OMPOSITE CONCRETE				(201-3)R & (4-1,5)R			WINNEBAGO	1685	543
			_				CONTRACT	NO. 640	C24
S	STA.	TO STA.			ILLINOIS FEI	D. AID	PROJECT		
		* FAI ROUTE 39 (I-39) & FAP 301	•					·	



r xwwordir/benesch projects/projects/d0173871/D264C24 SHT 0206

\* FAI ROUTE 39 (I-39) & FAP 301 (US 20)

#### GENERAL NOTES

- 1. These plans are for erection of the bridges. All work related to the Beam and Bearing Fabrication Contract (64U51) is for information only
- 2. Fasteners shall be ASTM F 3125 Grade A325 Type 1. Fasteners shall be hot dip galvanized. See Special Provision for "Hot Dip Galvanizing for Structural Steel." Bolts 7/8 in. diameter, holes 15/16 in. diameter, unless otherwise noted.
- 3. Calculated weight of Structural Steel (Grade 50)= 751,120 lb and Structural Steel (Grade 36)= 89,100 lb.
- 4. FOR INFORMATION ONLY All structural steel shall be galvanized. See Special Provision for "Hot Dip Galvanizing for Structural Steel".
- 5. No field welding is permitted except as specified in the contract documents.
- 6. Reinforcement bars designated (E) shall be epoxy coated.
- 7. If the Contractor elects to use cantilever forming brackets on the exterior beams or girders, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06(b) of the Standard Specifications, If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior beam at each of these additional bracket locations.
- 8. Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 in. (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
- The embankment configuration shown shall be the minimum that must be placed and compacted prior to 9. construction of the abutments.
- 10. The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to address the presence of lead on this project.
- 11. It shall be the Contractor's responsibility to verify the location of all utilities prior to starting construction.
- It is anticipated that the structural steel and bearings will be fabricated by June 1, 2026 for 12. Stage 1, June 1, 2027 for Stage 2, and June 1, 2028 for Stage 3. The delivery dates shall be coordinated with IDOT and the Contractor responsible for Contract No. 64U51.

#### **INDEX OF SHEETS**

1.	General Plan & Elevation
2.	General Notes & Total Bill of Material
З.	General Details
4.	Foundation Layout
5.	Temporary Concrete Barrier
6.	Stage 1 Construction & Removal
7.	Stage 2 Construction & Removal
8.	Stage 3 Construction & Removal
9.	Removal Plan and Elevation
10.	Existing Southbound Abutments Removal
11.	Existing Northbound Abutments Removal
12.	Existing Southbound Piers Removal
13.	Existing Northbound Piers Removal
14.	Slab Elevations 1
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21.	Approach Slab Elevations - Southbound
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25.	Deck Slab Details - Miscellaneous & Bill of Material
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28.	Deck Slab Details - Parapet Light Pole
20	Concrete End Diaphragm Southbound

- 29. Concrete End Diaphragm Southbound
- 30. Concrete End Diaphragm Northbound
- 34. Approach Slabs Northbound 35. Approach Slabs Details - Northbound 36. Framing Plan 37. Structural Steel 38. Structural Steel Details 39. Structural Steel Diaphragms 40. Bearing Details 41. South Abutment - Southbound Stage 1 42. South Abutment - Southbound Stage 2A 43. South Abutment - Northbound Stage 2B 44. South Abutment - Northbound Stage 3 45. North Abutment - Southbound Stage 1 46. North Abutment - Southbound Stage 2A 47. North Abutment - Northbound Stage 2B 48. North Abutment - Northbound Stage 3 49. Pier 1 - Southbound 50. Pier 1 - Northbound 51. Pier 2 - Southbound 52. Pier 2 - Northbound 53. Pier Details & Bill of Material - Southbound 54. Pier Details & Bill of Material - Northbound 55. Pile Details 56. Concrete Parapet Slipforming 57. Bar Splicer Details

58. Boring Logs 1

59. Boring Logs 2

60. Boring Logs 3

31. Concrete End Diaphragm Details

*33. Approach Slabs Details - Southbound* 

32. Approach Slabs - Southbound

baseline	No.	number
bearing	N.S.	near side
centerline	0.F.	outside fa
clearance	PJF	preforme
concrete	PJS	preforme
centers	PG	profile gra
construction	prop.	proposed
expansion bearings	req'd	required
east abutment	rte.	route
east bound	SB	south bou
each face	SE	<i>south eas</i>
elevation	SW	south wes
existing	sect.	section
fixed bearings	spa.	spaces

**ABBREVIATIONS** 

NE

NW

WΒ

WW

abutment

back face

front face

inside face

longitudinal

north bound

maximum

minimum

high strength

far side

ioint

abut.

ΒF

brg.

Ç

cl.

conc.

cts.

E.B.

EΑ

EΒ

E.F.

elev.

exist.

F.B.

F.F.

F.S.

H.S.

I.F.

long.

max.

min.

NB

jt.

const.

0.F.	outside face
PJF	preformed joint filler
PJS	preformed joint sealer
PG	profile grade
prop.	proposed
req'd	required
rte.	route
SB	south bound
SE	<i>south east</i>
SW	south west
sect.	section
spa.	spaces
spec.	specification
sta.	station
std.	standard
struct.	structure
typ.	typical
UNO	unless noted otherwise
WA	west abutment

west bound

wingwall

north east

north west

#### REMOVAL OF REMOVAL OF SLOPE WALL PROTECTIVE STRUCTURE CONCRETE S CONCRETE S PROTECTIVE CONCRETE S ERECTING S STUD SHEAR REINFORCEM BAR SPLICEF SLOPE WALL FURNISHING DRIVING PILL TEST PILE ST PILE SHOES NAME PLATE PREFORMED ANCHOR BO ANCHOR BO TEMPORARY GRANULAR E GEOCOMPOS PIPE UNDERL BRIDGE DEC

BAR TERMIN

DIAMOND GI

29.

 $7^{1/4}$ "

2<sup>5</sup>⁄8"

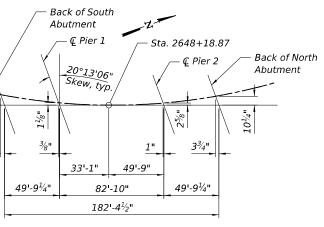
@ F.A.I. Rte. 39

Local Tangent to € F.A.I. Rte. 39 at Sta. 2648+18.87

	USER NAME = Ifranceschina	DESIGNED - JW	REVISED -		G	ENERAL NOTES & TOTAL
Bowman <sup>10 &amp; LaSalle Street, Suite 27</sup> Chicago, Illinois 60603 312-614-0360	10	DRAWN - AT	REVISED -	STATE OF ILLINOIS	U	
DUVVIIICIII 312-514-0350 www.bowman.com	PLOT SCALE = \$SCALE\$	CHECKED - AJN	REVISED -	DEPARTMENT OF TRANSPORTATION		STRUCTURE NO. 10
	PLOT DATE = 8/12/2024	DATE - 02/27/24	REVISED -		SCALE:	SHEET 2 OF 60 SHEETS

TOTAL BILL OF MA		-		
ITEM	UNIT		-0208/02	
		SUPER	SUB	TOTAL
F EXISTING STRUCTURES NO. 1	EACH	0.5	0.5	1
F EXISTING STRUCTURES NO. 2	EACH	0.5	0.5	1
L REMOVAL	SQ YD	-	1,676	1,676
E SHIELD	SQ YD	580	-	580
EXCAVATION	CU YD	0	971	971
STRUCTURES	CU YD	-	1,208.9	1,208.9
SUPERSTRUCTURE	CU YD	967.0	-	967.0
ECOAT	SQ YD	4,476	-	4,476
SUPERSTRUCTURE (APPROACH SLAB)	CU YD	410.9	-	410.9
TRUCTURAL STEEL	L SUM	0.22	-	0.22
R CONNECTORS	EACH	21,240	-	21,240
MENT BARS, EPOXY COATED	POUND	433,040	135,780	568,820
RS	EACH	1,762	276	2,038
L 4 INCH	SQ YD	-	2,780	2,780
G STEEL PILES HP12X63	FOOT	-	5,208	5,208
ES	FOOT	-	5,208	5,208
TEEL HP12X63	EACH	-	2	2
	EACH	-	166	166
ES	EACH	2	-	2
) JOINT SEAL 2 1/2"	FOOT	241	-	241
DLTS, 1"	EACH	80	-	80
DLTS, 1¼"	EACH	80	-	80
SHEET PILING	SQ FT	-	1,284	1,284
BACKFILL FOR STRUCTURES	CU YD	-	512	512
SITE WALL DRAIN	SQ YD	-	207.6	207.6
DRAINS FOR STRUCTURES 4"	FOOT	-	354.8	354.8
CK GROOVING (LONGITUDINAL)	SQ YD	2,564	-	2,564
IATORS	EACH	956	1,748	2,704
RINDING (BRIDGE SECTION)	SQ YD	3,848	-	3,848

### TOTAL BILL OF MATERIAL

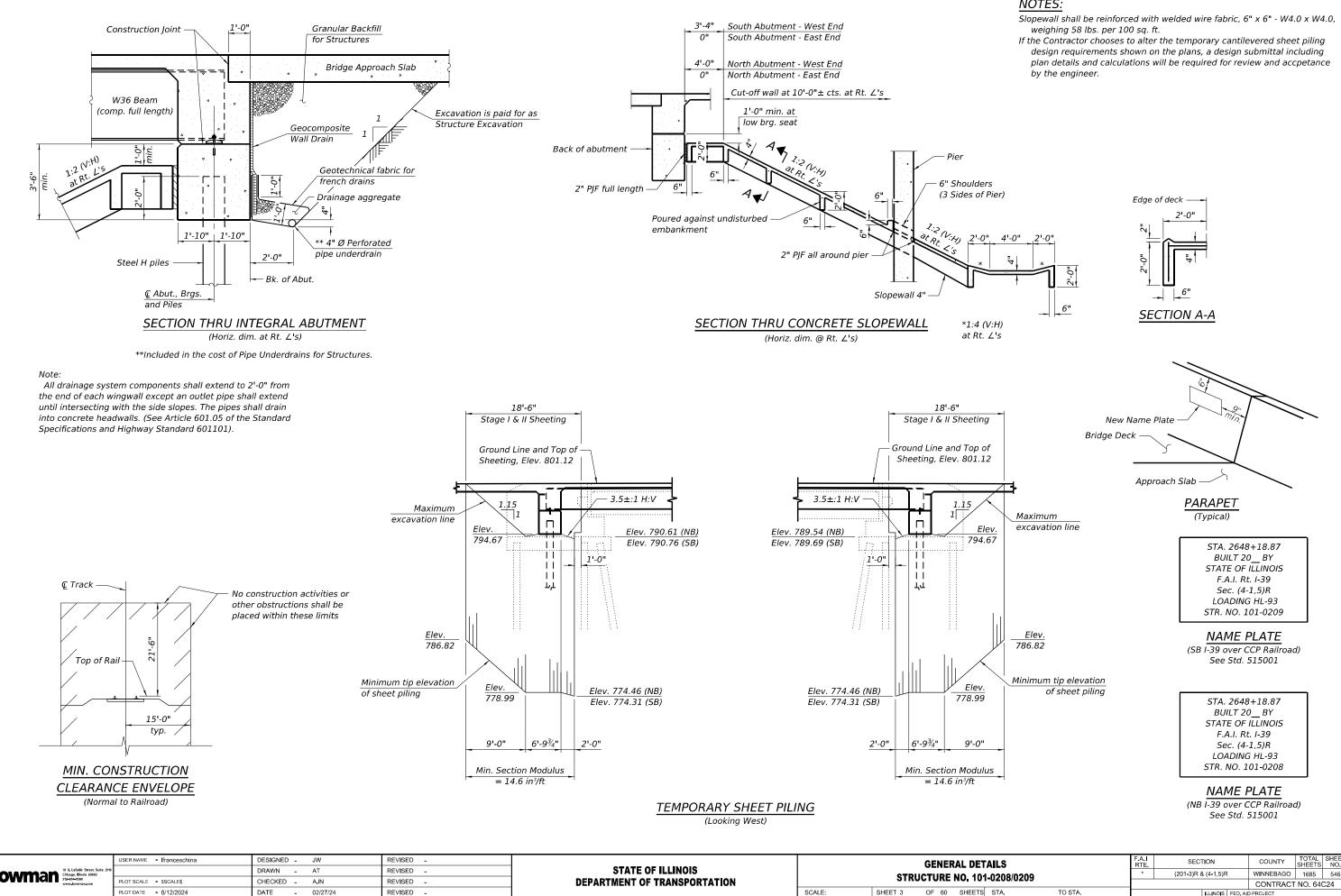


#### OFFSET SKETCH

#### CURVE DATA (C I-39/US Rte 20)

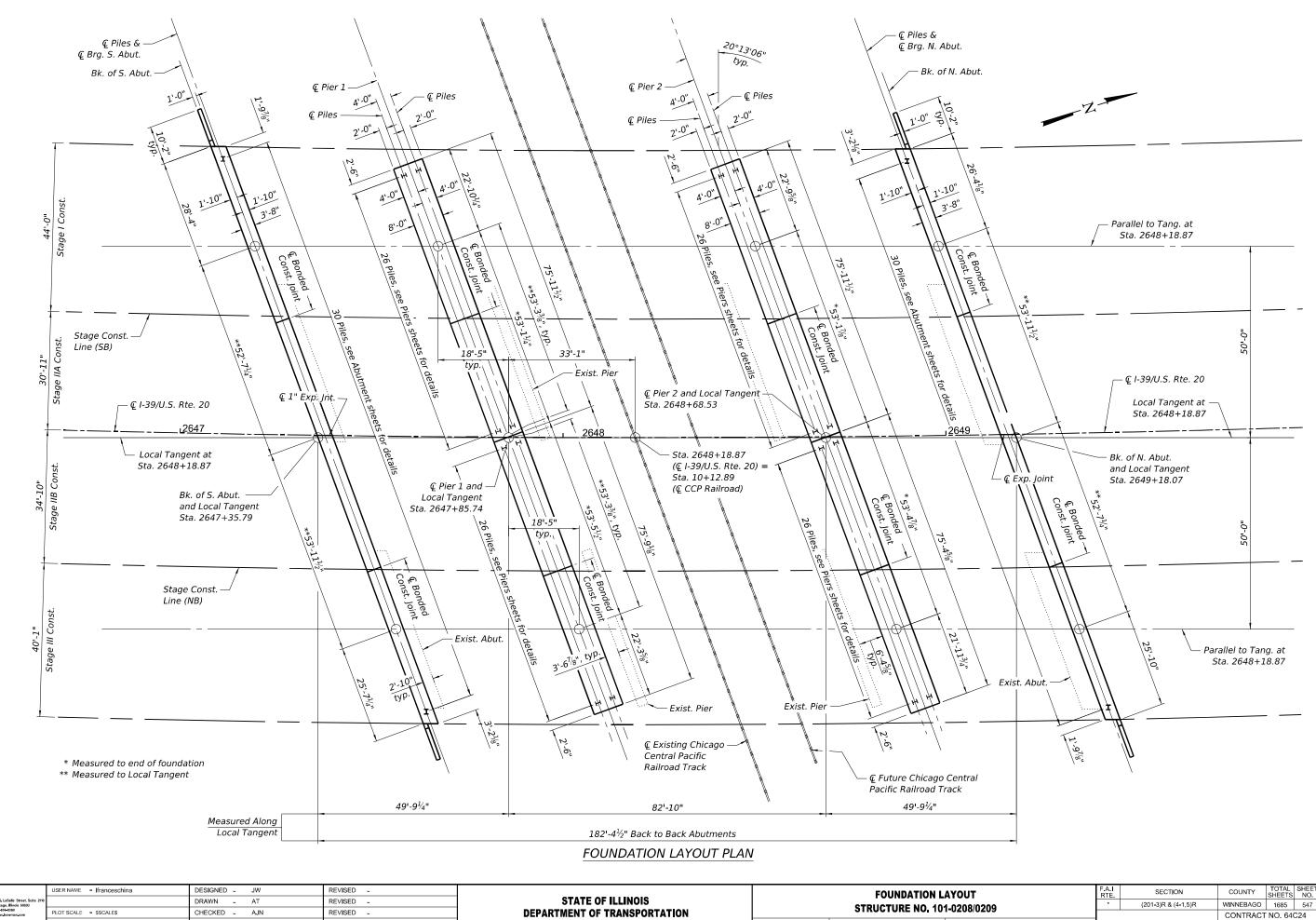
*P.I. Sta.* = 2638+19.71  $\Delta = 50^{\circ}41'00'' (LT)$  $D = 1^{\circ}00'00"$ R = 5,729.70'T = 2713.52'L = 5,068.44E = 610.07'S.E. Run = 3.4% P.C. Sta. = 2611+06.19 P.T. Sta. = 2661+74.63

L BILL OF MATERIAL		F.A.I RTE	SECT	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
01-0208/0209		*	* (201-3)R & (4-1,5)R			WINNEBAGO 1685		545	
01-0200/0203		_				CONTRACT	NO. 640	224	
TS	STA.	TO STA.	ILLINOIS FED AID PROJECT						



Bowman <sup>10 S. LaSalle</sup> Street Chicago, Illinois 600 312-61-0380 SCALE: SHEET 3

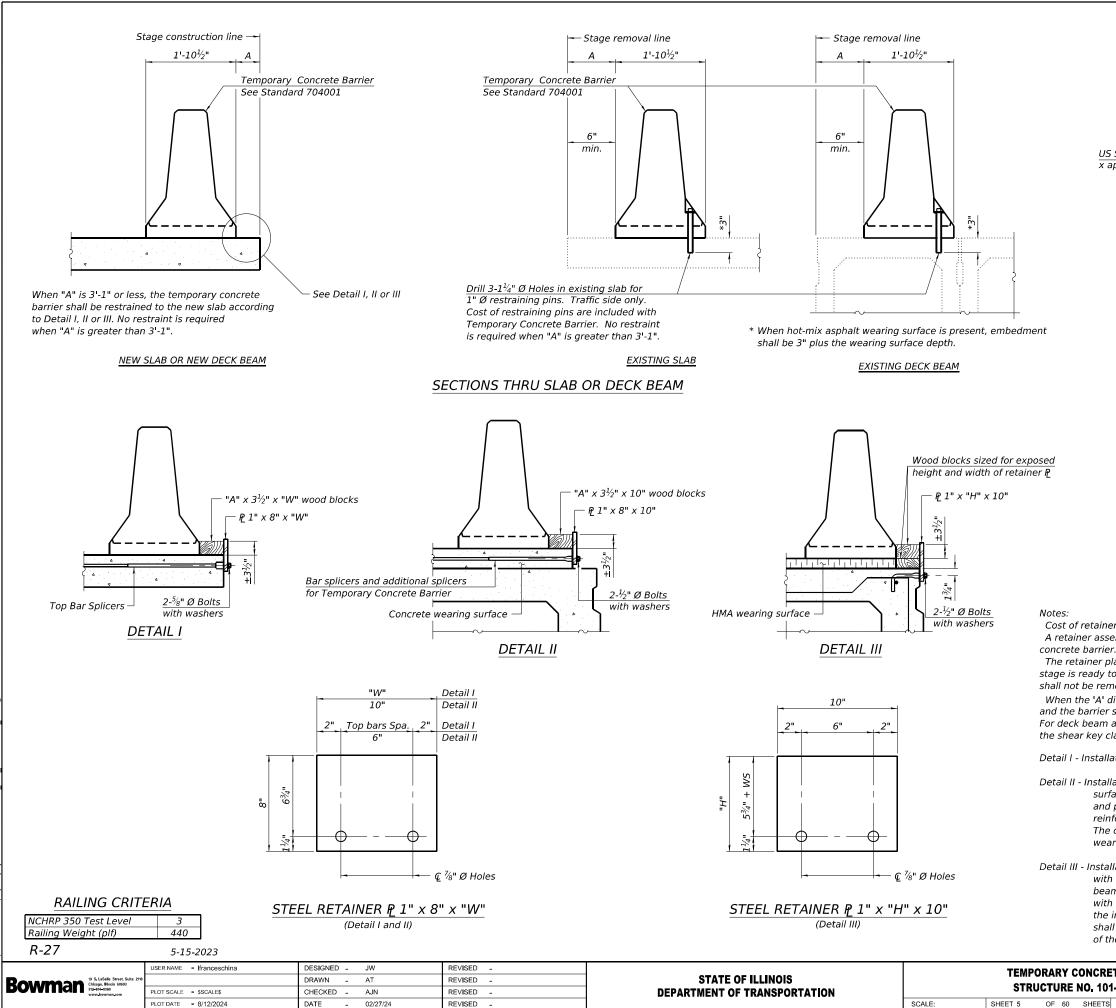
### NOTES:



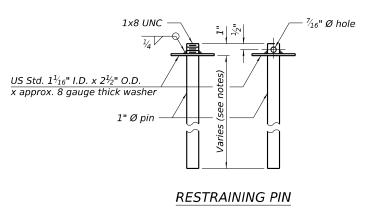
10 S. LaSalle Street, Suite 2110	USER NAME = Ifranceschina	DESIGNED - JW DRAWN - AT	REVISED -	STATE OF ILLINOIS		FOUNDATION LAYOUT
Bowman Chicago, Illinois 60003 312-61-0360 www.bowman.com	PLOT SCALE = \$SCALE\$	CHECKED - AJN	REVISED -	DEPARTMENT OF TRANSPORTATION		STRUCTURE NO. 101-0208/0
	PLOT DATE = 8/12/2024	DATE - 02/27/24	REVISED -		SCALE:	SHEET 4 OF 60 SHEETS STA.

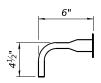
ILLINOIS FED AID PROJECT

TO STA.



DEL: SHEE E NAME: c:/





#### BAR SPLICER FOR #4 BAR - DETAIL III

Cost of retainer assembly is included with Temporary Concrete Barrier. A retainer assembly shall be located at the approximate  $\underline{\mathbb{Q}}$  of each temporary concrete barrier.

The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.

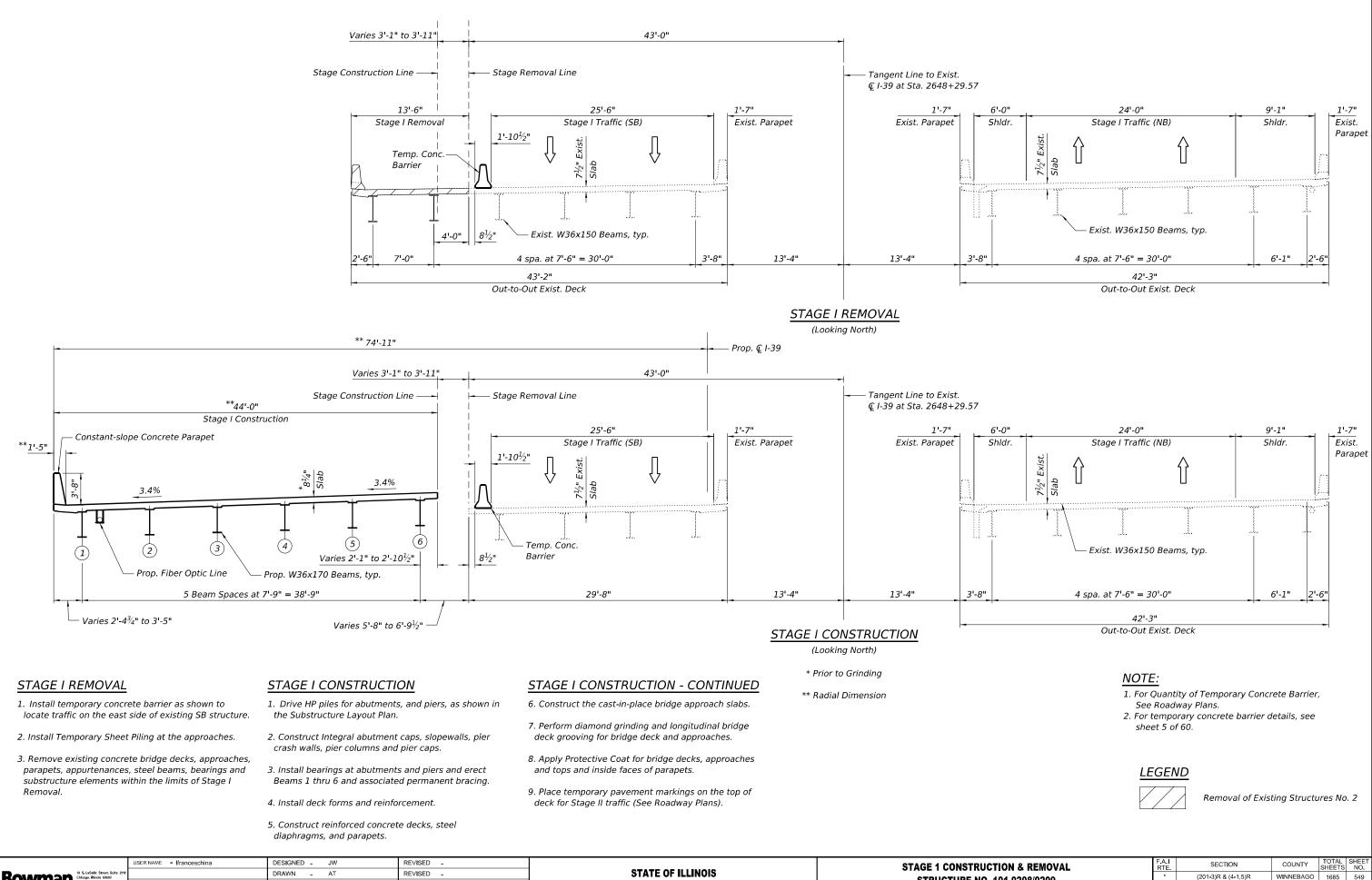
When the 'A' dimension is less than  $1\frac{1}{2}$ ", the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

Detail I - Installation for a new bridge deck or bridge slab.

Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.

Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

RETE BARRIER		F.A.I RTE	SECTION			COUNTY	TOTAL SHEETS	SHEET NO.	
01	)1-0208/0209			(201-3)R & (4-1,5)R WINNEBAGO			WINNEBAGO	1685	548
<b>V</b> 1	01-0206/0209						CONTRACT	NO. 640	224
TS	STA.	TO STA.			ILLINOIS	FED. AI	D PROJECT		
		* FAI ROUTE 39 (I-39) & FAP 30	1 (US 20 <del>)</del>	•					•



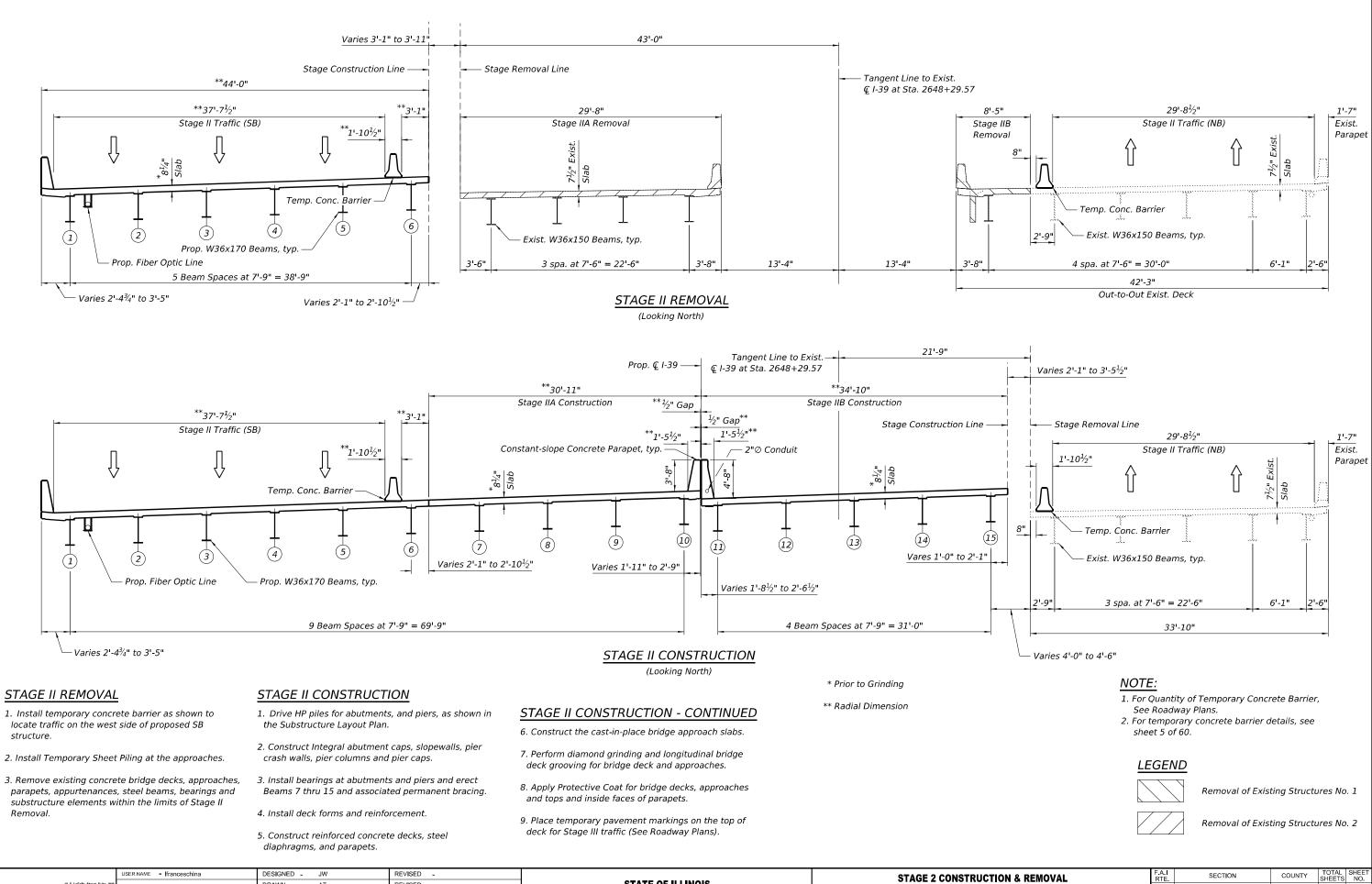
**STATE OF ILLINOIS** DRAWN - AT Bowman 10 S. LaSalle Street Chicago, Illinois 600 312-614-0360 STRUCTURE NO. 101-0208/0209 OT SCALE = \$SCALE\$ CHECKED -AJN REVISED **DEPARTMENT OF TRANSPORTATION** SCALE: OF 60 SHEETS STA. SHEET 6 LOT DATE = 8/12/2024 DATE - 02/27/24 REVISED -

\* FAI ROUTE 39 (I-39) & FAP 301 (US 20)

TO STA.

CONTRACT NO. 64C24

ILLINOIS FED. AID PROJECT



**STATE OF ILLINOIS** DRAWN - AT REVISED Bowman STRUCTURE NO. 101-0208/0209 OT SCALE = \$SCALE\$ CHECKED -AJN REVISED **DEPARTMENT OF TRANSPORTATION** SCALE: OF 60 SHEETS STA. SHEET 7 LOT DATE = 8/12/2024 DATE REVISED - 02/27/24

\* FAI ROUTE 39 (I-39) & FAP 301 (US 20) •

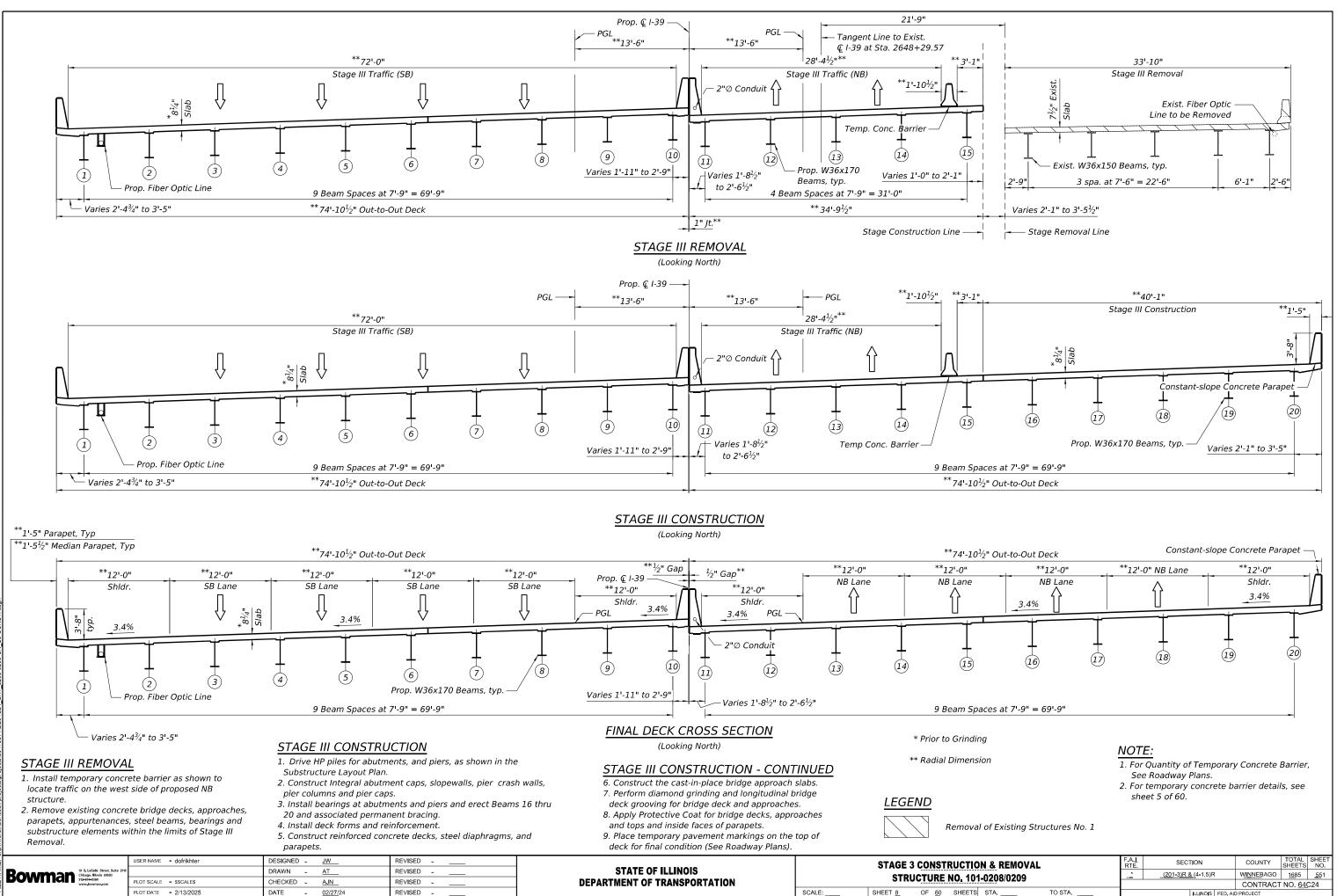
TO STA.

(201-3)R & (4-1.5)R

ILLINOIS FED. AID PROJECT

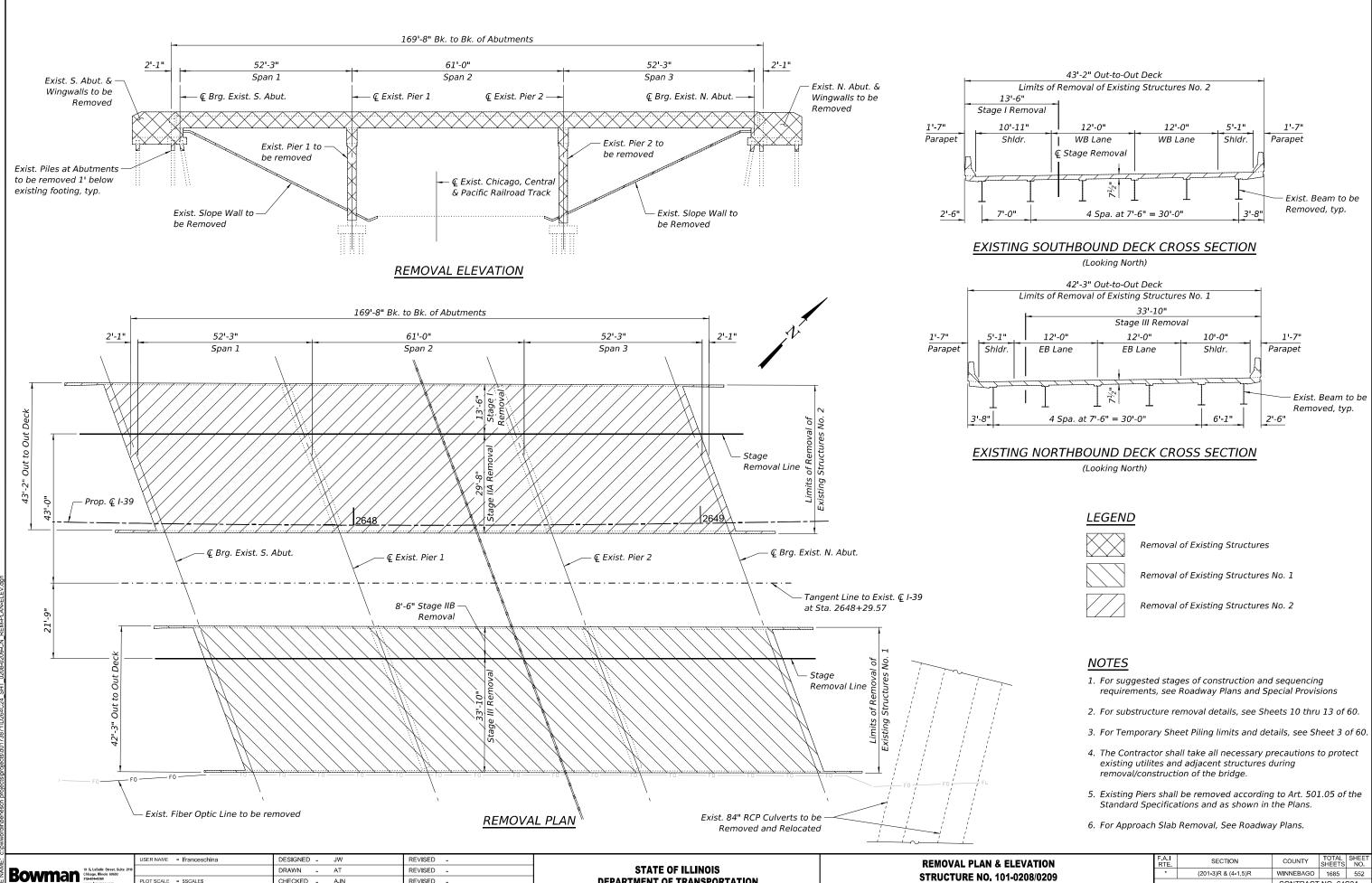
WINNEBAGO 1685 550

CONTRACT NO. 64C24



SHEET 8

\* FAI ROUTE 39 (I-39) & FAP 301 (US 20)



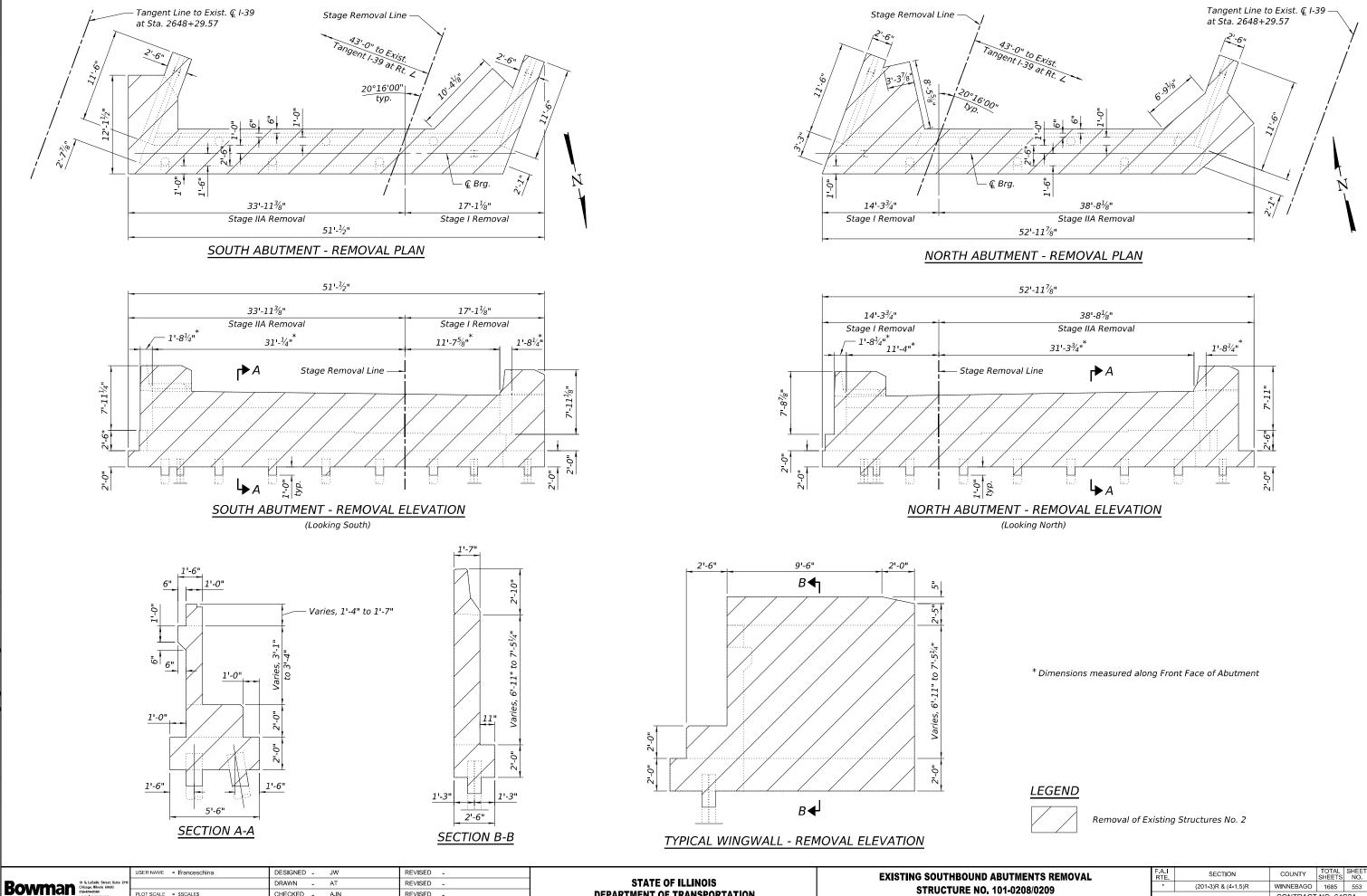
DRAWN - AT STRUCTURE NO. 101-0208/0209 OT SCALE = \$SCALE\$ CHECKED - AJN REVISED **DEPARTMENT OF TRANSPORTATION** SCALE: SHEET 9 OF 60 SHEETS STA. LOT DATE = 8/12/2024 DATE REVISED -- 02/27/24

TO STA.

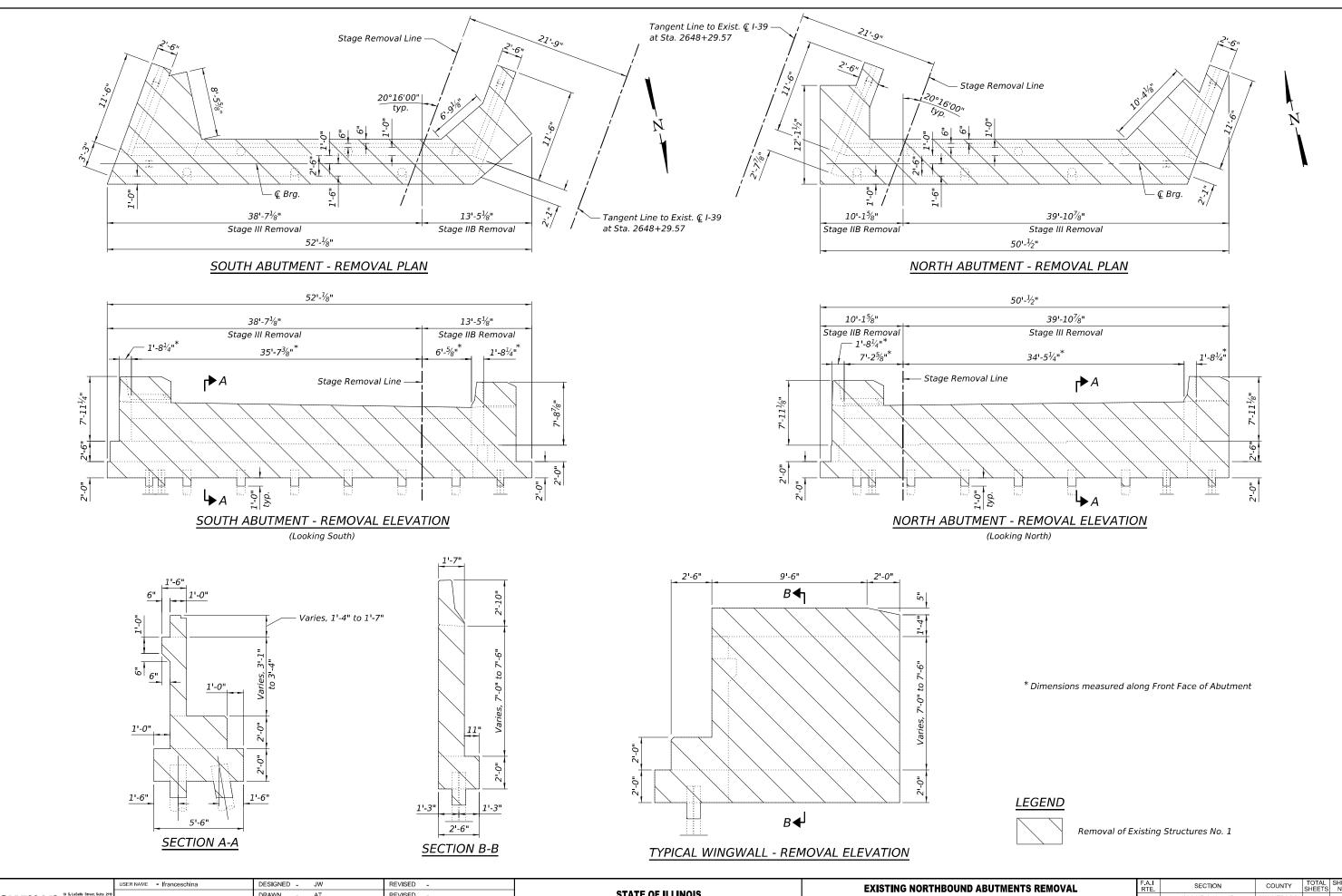
CONTRACT NO. 64C24

ILLINOIS FED. AID PROJECT

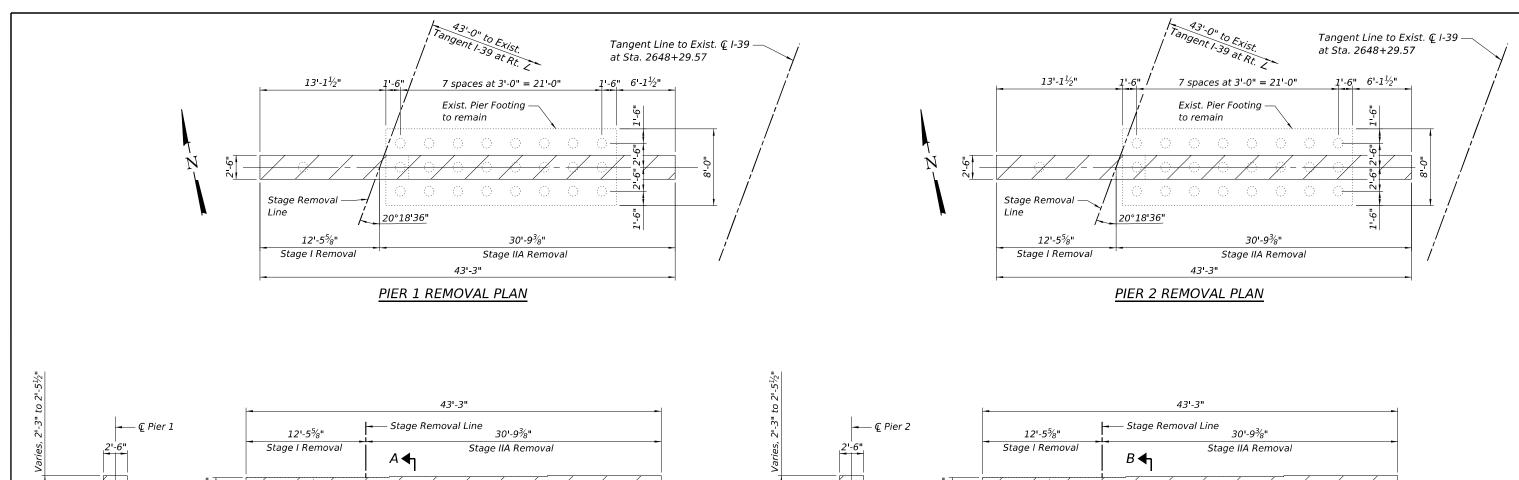
<sup>\*</sup> FAI ROUTE 39 (I-39) & FAP 301 (US 20)



EXISTING SOUTHBOUND ABUTMENTS REMOVAL	F.A.I RTE	SECTION			TOTAL SHEETS	SHEET NO.					
STRUCTURE NO. 101-0208/0209	*	(201-3)R & (4-1,5)R	WINNEBAGO	1685	553						
STRUCTURE NO: 101-0200/0203				CONTRACT	NO. 640	224					
SHEET 10 OF 60 SHEETS STA. TO STA.		ILLINOIS	FED. AID	PROJECT							
* FAI ROUTE 39 (I-39) & FAP 301 (US 20) • • •											

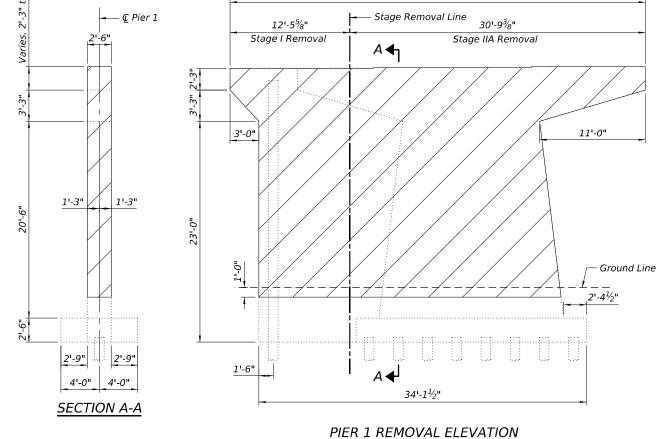


Bowman 19.5. LaSelle Street. Suite 210 Chicago, Illinois 60003 31-64-04500 www.bowman.com	USER NAME = Ifranceschina	DESIGNED - JW	REVISED -			EXISTING NO	RTHBOUND		MENTS REMOV	AL.	F.A.I RTE	SECTION	COUNTY	TOTAL	SHEET
		DRAWN – AT	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 101-0208/0209						*	(201-3)R & (4-1,5)R	WINNEBAGO	1685	554
	PLOT SCALE = \$SCALE\$	CHECKED - AJN	REVISED -	DEPARTMENT OF TRANSPORTATION	51 RUCTURE NO, 101-0206/0209						CONTRAC	T NO. 64	1C24		
	PLOT DATE = 8/12/2024	DATE - 02/27/24	REVISED -		SCALE:	SHEET 11	OF 60 SH	HEETS S	TA. T	O STA.		ILLINOIS FED. A	ID PROJECT		
									* FAI ROI	JTE 39 (I-39) & FAP 301	(US 20) •				

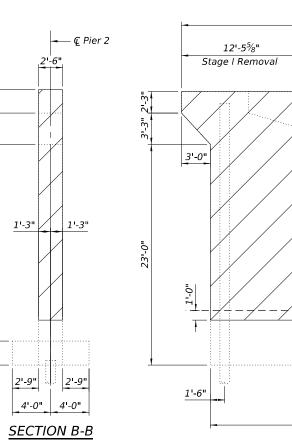


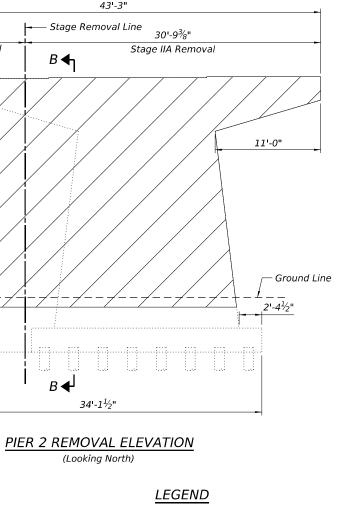
φ

2-6"



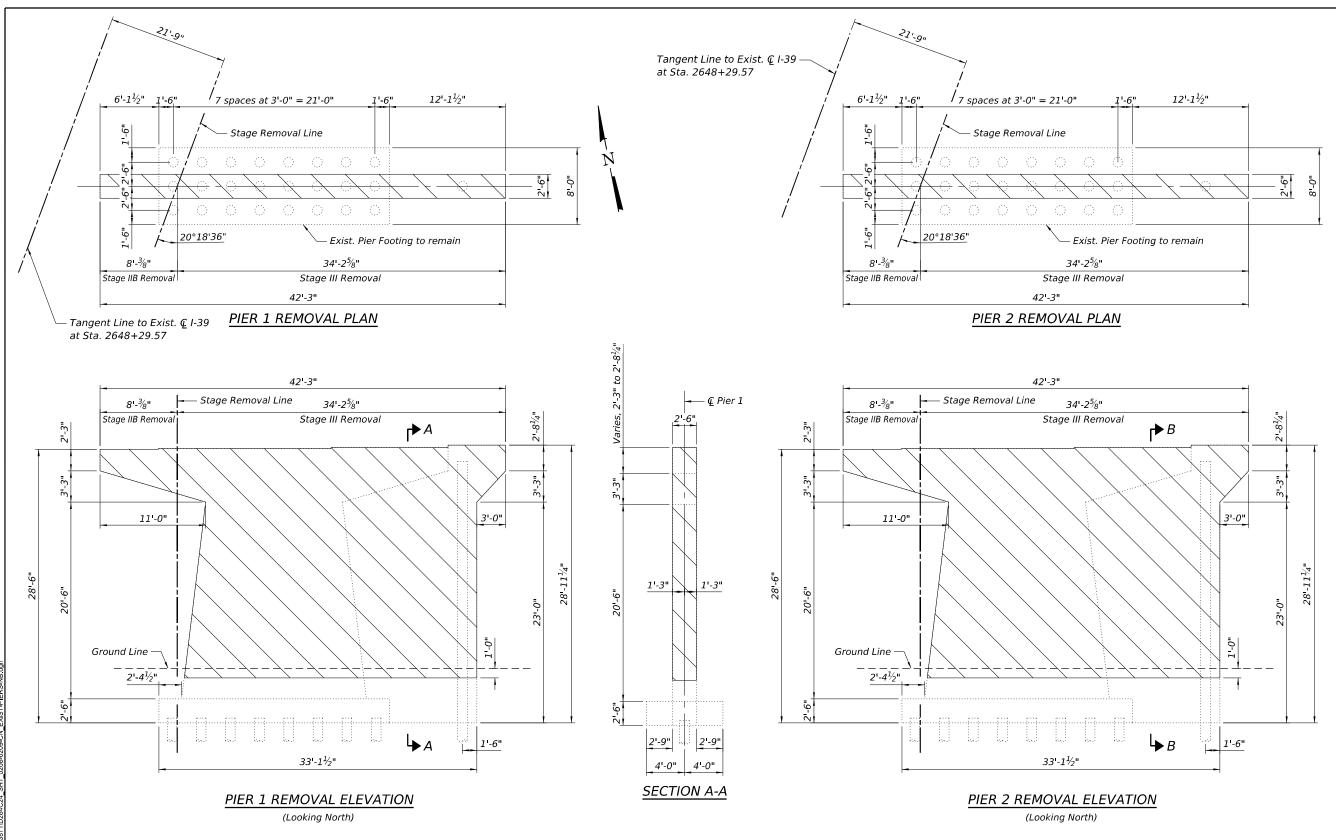
(Looking North)

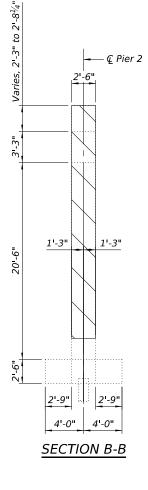




Removal of Existing Structures No. 2

D	D PIERS REMOVAL 01-0208/0209			SECTION	1	COUNTY	TOTAL SHEETS	SHEET NO.
101				(201-3)R & (4-	1,5)R	WINNEBAGO	1685	555
	01-0208/0209					CONTRACT	NO. 640	C24
TS	STA.	TO STA.		ILLI	NOIS FED. AI	D PROJECT		
		* FAI ROUTE 39 (I-39) & FAP :	301 (US 20 <del>)</del>	•				

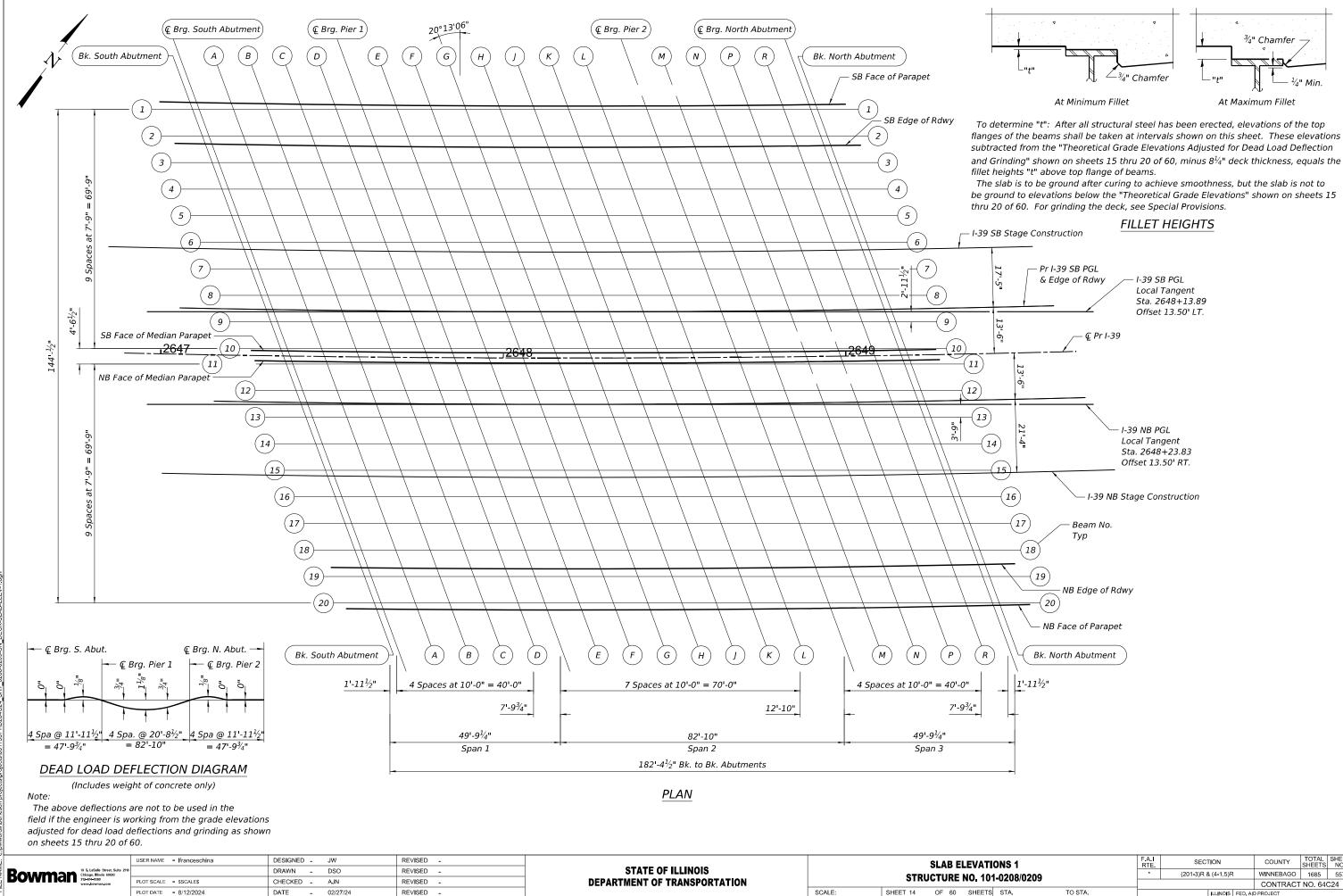






Removal of Existing Structures No. 1

D PIERS REMOVAL		ERS REMOVAL		SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.
01	1-0208/0209			* (201-3)R & (4-1,5)R			WINNEBAGO	1685	556
	-0200/	0205					CONTRACT	NO. 640	C24
TS	STA.	TO STA.			ILLINOIS	FED, All	D PROJECT		
		* FAI ROUTE 39 (I-39) & FAP 30	1 (US 20)	•					



TIONS 1		NS 1		SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.
01	)1-0208/0209			* (201-3)R & (4-1,5)R WINNEBAGO			1685	557	
	-0200/02	05					CONTRACT	NO. 640	224
TS	STA.	TO STA.			ILLINOIS	FED, All	D PROJECT		
		* FAI ROUTE 39 (I-39) & FAP 3	01 (US 20)	•					

#### SOUTHBOUND FACE OF PARAPET

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. S. Abutment	2647+07.11	-73.50	798.88	798.90
€ Brg. S. Abutment	2647+09.11	-73.50	798.88	798.90
A B C D	2647+19.31 2647+29.50 2647+39.69 2647+49.87	-73.50 -73.50 -73.50 -73.50	798.93 798.97 799.01 799.05	798.95 798.99 799.03 799.07
⊈ Brg. Pier 1	2647+57.82	-73.50	799.08	799.10
E F G H J K L	2647+67.99 2647+78.15 2647+88.30 2647+98.45 2648+08.59 2648+18.72 2648+28.85	-73.50 -73.50 -73.50 -73.50 -73.50 -73.50 -73.50	799.11 799.14 799.17 799.19 799.21 799.23 799.24	799.15 799.20 799.25 799.28 799.30 799.30 799.29
⊈ Brg. Pier 2	2648+41.83	-73.50	799.25	799.27
M N P R	2648+51.94 2648+62.05 2648+72.15 2648+82.24	-73.50 -73.50 -73.50 -73.50	799.25 799.25 799.24 799.23	799.28 799.27 799.26 799.25
⊈ Brg. N. Abutment	2648+90.13	-73.50	799.22	799.24
Bk. N. Abutment	2648+92.10	-73.50	799.21	799.23

# BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding	Location
Bk. S. Abutment	2647+07.91	-71.49	799.02	799.04	Bk. S. Abutme
€ Brg. S. Abutment	2647+09.89	-71.52	799.03	799.05	⊈ Brg. S. Abutrr
A B C D	2647+19.96 2647+30.14 2647+40.26 2647+50.39	-71.70 -71.87 -72.02 -72.14	799.06 799.10 799.13 799.17	799.08 799.12 799.15 799.19	A B C D
€ Brg. Pier 1	2647+58.31	-72.23	799.19	799.21	€ Brg. Pier 2
E F G H J K L	2647+68.43 2647+78.56 2647+88.69 2647+98.82 2648+08.95 2648+19.07 2648+29.20	-72.33 -72.41 -72.47 -72.51 -72.54 -72.55 -72.54	799.23 799.25 799.28 799.30 799.32 799.33 799.34	799.27 799.31 799.36 799.39 799.41 799.40 799.39	E F H J K L
⊈ Brg. Pier 2	2648+42.20	-72.50	799.35	799.37	€ Brg. Pier 2
M N P R	2648+52.33 2648+62.46 2648+72.58 2648+82.71	-72.45 -72.38 -72.30 -72.20	799.36 799.36 799.35 799.35	799.39 799.38 799.37 799.37	M N P R
⊈ Brg. N. Abutment	2648+90.63	-72.10	799.34	799.36	⊈ Brg. N. Abutn
Bk. N. Abutment	2648+92.61	-72.08	799.33	799.35	Bk. N. Abutme

### SOUTHBOUND EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding	Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding	Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. S. Abutment	2647+11.85	-61.50	799.38	799.40	Bk. S. Abutment	2647+13.98	-56.10	799.57	799.59	Bk. S. Abutment	2647+17.00	-48.40	799.84	799.86
€ Brg. S. Abutment	2647+13.84	-61.50 -61.50	799.38	799.40	Ç Brg. S. Abutment	2647+15.95	-56.13	799.57	799.59	€ Brg. S. Abutment	2647+18.97	-48.43	799.85	799.87
A	2647+24.02	-61.50	799.42	799.44	A	2647+26.05	-56.30	799.61	799.63	A	2647+29.05	-48.60	799.88	799.90
В	2647+34.18	-61.50	799.47	799.49	В	2647+36.15	-56.46	799.64	799.66	В	2647+39.14	-48.75	799.92	799.94
С	2647+44.35	-61.50	799.51	799.53	С	2647+46.24	-56.59	799.68	799.70	С	2647+49.22	-48.88	799.95	799.97
D	2647+54.50	-61.50	799.54	799.56	D	2647+56.34	-56.71	799.71	799.73	D	2647+59.31	-48.99	799.99	800.01
€ Brg. Pier 1	2647+62.43	-61.50	799.57	799.59	€ Brg. Pier 1	2647+64.24	-56.79	799.74	799.76	⊊ Brg. Pier 1	2647+67.19	-49.07	800.01	800.03
E	2647+72.58	-61.50	799.61	799.65	Е	2647+74.34	-56.88	799.77	799.81	Е	2647+77.28	-49.15	800.04	800.08
F	2647+82.71	-61.50	799.63	799.70	F	2647+84.44	-56.95	799.79	799.86	F	2647+87.36	-49.21	800.06	800.13
G	2647+92.84	-61.50	799.66	799.75	G	2647+94.54	-57.00	799.82	799.91	G	2647+97.45	-49.26	800.09	800.18
Н	2648+02.96	-61.50	799.68	799.78	Н	2648+04.64	-57.03	799.84	799.94	Н	2648+07.54	-49.29	800.11	800.21
J	2648+13.08	-61.50	799.70	799.79	J	2648+14.74	-57.05	799.85	799.94	J	2648+17.62	-49.30	800.12	800.21
K	2648+23.19	-61.50	799.71	799.79	ĸ	2648+24.84	-57.04	799.87	799.95	К	2648+27.71	-49.29	800.13	800.21
L	2648+33.29	-61.50	799.72	799.77	L	2648+34.94	-57.03	799.88	799.93	L	2648+37.80	-49.27	800.14	800.19
€ Brg. Pier 2	2648+46.24	-61.50	799.73	799.75	€ Brg. Pier 2	2648+47.90	-56.97	799.88	799.90	€ Brg. Pier 2	2648+50.74	-49.21	800.15	800.17
М	2648+56.33	-61.50	799.73	799.76	м	2648+58.00	-56.92	799.88	799.91	М	2648+60.83	-49.15	800.15	800.18
Ν	2648+66.41	-61.50	799.72	799.75	N	2648+68.10	-56.84	799.88	799.91	N	2648+70.91	-49.06	800.14	800.17
Р	2648+76.49	-61.50	799.72	799.74	Р	2648+78.20	-56.74	799.88	799.90	Р	2648+81.00	-48.96	800.14	800.16
R	2648+86.56	-61.50	799.70	799.72	R	2648+88.30	-56.63	799.87	799.89	R	2648+91.09	-48.85	800.13	800.15
⊈ Brg. N. Abutment	2648+94.42	-61.50	799.69	799.71	⊈ Brg. N. Abutment	2648+96.20	-56.53	799.86	799.88	€ Brg. N. Abutment	2648+98.97	-48.74	800.12	800.14
Bk. N. Abutment	2648+96.39	-61.50	799.69	799.71	Bk. N. Abutment	2648+98.17	-56.50	799.85	799.87	Bk. N. Abutment	2649+00.94	-48.71	800.11	800.13

BEAM 3

	BEA	A <u>M 2</u>		
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
. S. Abutment	2647+10.95	-63.79	799.29	799.31
rg. S. Abutment	2647+12.92	-63.83	799.30	799.32
A B C D	2647+23.03 2647+33.15 2647+43.26 2647+53.37	-64.01 -64.16 -64.30 -64.43	799.34 799.37 799.41 799.44	799.36 799.39 799.43 799.46
⊈ Brg. Pier 1	2647+61.28	-64.51	799.47	799.49
Е F G H J K L	2647+71.39 2647+81.50 2647+91.62 2648+01.73 2648+11.85 2648+21.96 2648+32.08	-64.60 -64.68 -64.73 -64.77 -64.79 -64.80 -64.78	799.50 799.52 799.55 799.57 799.59 799.60 799.61	799.54 799.59 799.64 799.67 799.68 799.68 799.66
⊈ Brg. Pier 2	2648+45.06	-64.74	799.62	799.64
M N P R	2648+55.17 2648+65.28 2648+75.40 2648+85.51	-64.68 -64.61 -64.52 -64.41	799.62 799.62 799.61 799.61	799.65 799.65 799.63 799.63
rg. N. Abutment	2648+93.42	-64.32	799.60	799.62
. N. Abutment	2648+95.39	-64.29	799.59	799.61

> > BEAM 4

TIONS 2	F.A.I RTE	SECT	ION		COUNTY	TOTAL SHEETS	SHEET NO.
01-0208/0209	*	(201-3)R 8	(4-1,5)R		WINNEBAGO	1685	558
01-0200/0203					CONTRACT	NO. 640	C24
TS STA. TO STA.			ILLINOIS	FED. AI	D PROJECT		
* FAI ROUTE 39 (I-39) & FAP 301	(US 20)	•					•

#### BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. S. Abutment	2647+20.01	-40.70	800.12	800.14
⊈ Brg. S. Abutment	2647+21.98	-40.73	800.12	800.14
A B C D	2647+32.05 2647+42.12 2647+52.19 2647+62.26	-40.89 -41.04 -41.16 -41.27	800.16 800.19 800.23 800.26	800.18 800.21 800.25 800.28
€ Brg. Pier 1	2647+70.14	-41.34	800.28	800.30
E F G H J K L	2647+80.21 2647+90.28 2648+00.35 2648+10.43 2648+20.50 2648+30.57 2648+40.65	-41.42 -41.48 -41.52 -41.54 -41.55 -41.54 -41.51	800.31 800.33 800.36 800.37 800.39 800.40 800.41	800.35 800.40 800.45 800.47 800.48 800.48 800.48
⊈ Brg. Pier 2	2648+53.57	-41.44	800.41	800.43
M N P R	2648+63.65 2648+73.72 2648+83.79 2648+93.86	-41.37 -41.29 -41.18 -41.06	800.41 800.41 800.40 800.39	800.44 800.44 800.42 800.41
🕻 Brg. N. Abutment	2649+01.73	-40.95	800.38	800.40
Bk. N. Abutment	2649+03.70	-40.92	800.37	800.39

BEAM 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding	Location
Bk. S. Abutment	2647+23.02	-33.00	800.39	800.41	Bk. S. Abutme
⊈ Brg. S. Abutment	2647+24.98	-33.03	800.40	800.42	⊈ Brg. S. Abutn
A B C D	2647+35.04 2647+45.10 2647+55.15 2647+65.21	-33.19 -33.33 -33.45 -33.55	800.43 800.47 800.50 800.53	800.45 800.49 800.52 800.55	A B C D
⊈ Brg. Pier 1	2647+73.07	-33.62	800.55	800.57	€ Brg. Pier 1
E F G H J K L Q Brg. Pier 2 M N P R	$2647+83.13 \\ 2647+93.19 \\ 2648+03.25 \\ 2648+13.31 \\ 2648+23.37 \\ 2648+33.43 \\ 2648+43.49 \\ 2648+56.40 \\ 2648+56.40 \\ 2648+66.46 \\ 2648+76.51 \\ 2648+86.57 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 2648+96.63 \\ 264$	-33.69 -33.74 -33.78 -33.80 -33.80 -33.78 -33.75 -33.68 -33.60 -33.51 -33.40 -33.27	800.58 800.60 800.63 800.64 800.67 800.67 800.67 800.67 800.67 800.65	800.62 800.67 800.72 800.74 800.75 800.75 800.72 800.69 800.70 800.70 800.68 800.68 800.67	E F G H J K L Ø Brg. Pier 2 M N P R
Ç Brg. N. Abutment	2649+04.49	-33.16	800.64	800.66	⊈ Brg. N. Abutn
Bk. N. Abutment	2649+06.46	-33.13	800.63	800.65	Bk. N. Abutme

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding	Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding	Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. S. Abutment	2647+26.01	-25.30	800.66	800.68	Bk. S. Abutment	2647+29.00	-17.60	800.94	800.96	Bk. S. Abutment	2647+30.59	-13.50	801.08	801.10
⊈ Brg. S. Abutment	2647+27.97	-25.33	800.67	800.69	€ Brg. S. Abutment	2647+30.96	-17.63	800.94	800.96	€ Brg. S. Abutment	2647+32.56	-13.50	801.09	801.11
A	2647+38.02	-25.48	800.71	800.73	A	2647+40.99	-17.77	800.98	801.00	A	2647+42.63	-13.50	801.13	801.15
В	2647+48.06	-25.61	800.74	800.76	В	2647+51.02	-17.90	801.01	801.03	В	2647+52.70	-13.50	801.17	801.19
С	2647+58.11	-25.73	800.77	800.79	С	2647+61.05	-18.01	801.05	801.07	С	2647+62.77	-13.50	801.21	801.23
D	2647+68.15	-25.82	800.81	800.83	D	2647+71.08	-18.10	801.08	801.10	D	2647+72.82	-13.50	801.24	801.26
€ Brg. Pier 1	2647+76.00	-25.89	800.83	800.85	⊊ Brg. Pier 1	2647+78.93	-18.16	801.10	801.12	⊈ Brg. Pier 1	2647+80.68	-13.50	801.26	801.28
Е	2647+86.05	-25.95	800.85	800.89	Е	2647+88.96	-18.22	801.12	801.16	Е	2647+90.73	-13.50	801.29	801.33
F	2647+96.09	-26.00	800.88	800.95	F	2647+98.99	-18.26	801.15	801.22	F	2648+00.77	-13.50	801.31	801.38
G	2648+06.14	-26.03	800.89	800.98	G	2648+09.02	-18.29	801.16	801.25	G	2648+10.80	-13.50	801.33	801.42
Н	2648+16.19	-26.05	800.91	801.01	н	2648+19.05	-18.30	801.18	801.28	Н	2648+20.82	-13.50	801.34	801.44
1	2648+26.23	-26.04	800.92	801.01	J J	2648+29.08	-18.29	801.19	801.28	J	2648+30.84	-13.50	801.35	801.44
ĸ	2648+36.28	-26.02	800.93	801.01	ĸ	2648+39.12	-18.26	801.20	801.28	ĸ	2648+40.86	-13.50	801.36	801.44
L	2648+46.32	-25.98	800.94	800.99	L	2648+49.15	-18.22	801.20	801.25	L	2648+50.86	-13.50	801.36	801.41
€ Brg. Pier 2	2648+59.21	-25.91	800.94	800.96	€ Brg. Pier 2	2648+62.02	-18.14	801.20	801.22	⊈ Brg. Pier 2	2648+63.69	-13.50	801.36	801.38
М	2648+69.26	-25.83	800.93	800.96	М	2648+72.05	-18.05	801.20	801.23	М	2648+73.69	-13.50	801.35	801.38
N	2648+79.30	-25.73	800.93	800.96	N	2648+82.08	-17.95	801.19	801.22	N	2648+83.67	-13.50	801.34	801.37
Р	2648+89.35	-25.62	800.92	800.94	Р	2648+92.12	-17.83	801.18	801.20	Р	2648+93.65	-13.50	801.32	801.34
R	2648+99.39	-25.48	800.91	800.93	R	2649+02.15	-17.69	801.17	801.19	R	2649+03.62	-13.50	801.31	801.33
€ Brg. N. Abutment	2649+07.24	-25.37	800.89	800.91	⊊ Brg. N. Abutment	2649+09.99	-17.58	801.15	801.17	🕻 Brg. N. Abutment	2649+11.42	-13.50	801.29	801.31
Bk. N. Abutment	2649+09.21	-25.34	800.89	800.91	Bk. N. Abutment	2649+11.95	-17.54	801.15	801.17	Bk. N. Abutment	2649+13.36	-13.50	801.28	801.30

BEAM 8

- iii					
		USER NAME = Ifranceschina	DESIGNED - JW	REVISED -	
NAME:	Bowman 10 & LaSalle Street, Suite 2110 Chicago, Illinois 60603 37656-0380		DRAWN - DSO	REVISED -	1
щ	www.howman.com	PLOT SCALE = \$SCALE\$	CHECKED - AJN	REVISED -	1
Ξ		PLOT DATE = 8/12/2024	DATE - 02/27/24	REVISED -	1

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SLAB ELEVATI STRUCTURE NO. 10 SHEET 16 OF 60 SHEETS

SCALE:

BEAM 6

### SOUTHBOUND STAGE CONSTRUCTION

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. S. Abutment	2647+23.83	-30.92	800.46	800.48
⊈ Brg. S. Abutment	2647+25.80	-30.92	800.47	800.49
A B	2647+35.92 2647+46.02	-30.92 -30.92	800.51 800.55	800.53 800.57
С	2647+56.12	-30.92	800.59	800.61
D	2647+66.21	-30.92	800.63	800.65
€ Brg. Pier 1	2647+74.10	-30.92	800.65	800.67
Е	2647+84.18	-30.92	800.68	800.72
F	2647+94.25	-30.92	800.70	800.77
G	2648+04.32	-30.92	800.73	800.82
Н	2648+14.38	-30.92	800.74	800.84
J	2648+24.43	-30.92	800.76	800.85
К	2648+34.48	-30.92	800.76	800.84
L	2648+44.52	-30.92	800.77	800.82
€ Brg. Pier 2	2648+57.40	-30.92	800.77	800.79
М	2648+67.43	-30.92	800.76	800.79
N	2648+77.45	-30.92	800.75	800.78
P	2648+87.46	-30.92	800.74	800.76
R	2648+97.47	-30.92	800.73	800.75
⊈ Brg. N. Abutment	2649+05.29	-30.92	800.71	800.73
Bk. N. Abutment	2649+07.24	-30.92	800.71	800.73

### SOUTHBOUND PGL & EDGE OF ROADWAY

TIC	ONS 3		F.A.I RTE	SEC	FION		COUNTY	TOTAL SHEETS	SHEET NO.
٥1	-0208/02	00	*	(201-3)R 8	k (4 <b>-</b> 1,5)R		WINNEBAGO	1685	559
							CONTRACT	NO. 640	C24
TS STA. TO STA.					ILLINOIS	FED. AI	D PROJECT		
		* FAI ROUTE 39 (I-39) & FAP 3	801 (US 20 <del>)</del>	•					•

	BE	AM 9				BEA	M 10			S
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding	Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding	Location
Bk. S. Abutment	2647+31.98	-9.89	801.21	801.23	Bk. S. Abutment	2647+34.95	-2.18	801.49	801.51	Bk. S. Abutmei
⊈ Brg. S. Abutment	2647+33.94	-9.92	801.22	801.24	⊈ Brg. S. Abutment	2647+36.91	-2.21	801.49	801.51	⊈ Brg. S. Abutm
A	2647+43.96	-10.06	801.25	801.27	A	2647+46.91	-2.35	801.53	801.55	A
В	2647+53.97	-10.18	801.29	801.31	В	2647+56.92	-2.46	801.56	801.58	В
С	2647+63.99	-10.29	801.32	801.34	С	2647+66.92	-2.56	801.59	801.61	С
D	2647+74.01	-10.37	801.35	801.37	D	2647+76.92	-2.64	801.62	801.64	D
€ Brg. Pier 1	2647+81.84	-10.43	801.37	801.39	€ Brg. Pier 1	2647+84.74	-2.70	801.64	801.66	€ Brg. Pier 1
Е	2647+91.86	-10.48	801.39	801.43	Е	2647+94.75	-2.75	801.66	801.70	E
F	2648+01.87	-10.52	801.41	801.48	F	2648+04.75	-2.78	801.68	801.74	F
G	2648+11.89	-10.54	801.43	801.52	G	2648+14.76	-2.80	801.70	801.78	G
Н	2648+21.91	-10.55	801.44	801.54	Н	2648+24.76	-2.79	801.71	801.80	H
J	2648+31.93	-10.53	801.46	801.55	J	2648+34.77	-2.78	801.72	801.81	J
K	2648+41.95	-10.50	801.46	801.54	K	2648+44.77	-2.74	801.73	801.80	K
L	2648+51.97	-10.45	801.46	801.51	L	2648+54.78	-2.69	801.73	801.78	L
€ Brg. Pier 2	2648+64.82	-10.36	801.46	801.48	€ Brg. Pier 2	2648+67.62	-2.59	801.73	801.75	€ Brg. Pier 2
м	2648+74.84	-10.27	801.46	801.49	М	2648+77.62	-2.50	801.72	801.75	м
Ν	2648+84.86	-10.17	801.45	801.48	Ν	2648+87.62	-2.39	801.71	801.73	N
Р	2648+94.88	-10.04	801.44	801.46	Р	2648+97.63	-2.26	801.70	801.72	P
R	2649+04.89	-9.90	801.43	801.45	R	2649+07.63	-2.11	801.68	801.70	R
⊈ Brg. N. Abutment	2649+12.72	-9.78	801.41	801.43	€ Brg. N. Abutment	2649+15.45	-1.98	801.67	801.69	€ Brg. N. Abutm
Bk. N. Abutment	2649+14.68	-9.75	801.41	801.43	Bk. N. Abutment	2649+17.40	-1.95	801.67	801.69	Bk. N. Abutme

і о БШ		USER NAME = Ifranceschina	DESIGNED - JW	REVISED -			SLAB ELEVATION
AM	Polarmon 10 & LaSalle Street, Suite 2110 Chicago, Illinois 60603		DRAWN - DSO	REVISED -	STATE OF ILLINOIS	1	
Ξ	DUVVIIICII 312-614-0350 www.bowman.com	PLOT SCALE = \$SCALE\$	CHECKED - AJN	REVISED -	DEPARTMENT OF TRANSPORTATION	L	STRUCTURE NO. 101-02
Ē		PLOT DATE = 8/12/2024	DATE - 02/27/24	REVISED -		SCALE:	SHEET 17 OF 60 SHEETS S

## SOUTHBOUND FACE OF MEDIAN PARAPET

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
S. Abutment	2647+35.22	-1.50	800.62	800.64
g. S. Abutment	2647+37.18	-1.50	800.63	800.65
A B C D	2647+47.24 2647+57.28 2647+67.32 2647+77.35	-1.50 -1.50 -1.50 -1.50	800.67 800.71 800.74 800.77	800.69 800.73 800.76 800.79
Brg. Pier 1	2647+85.19	-1.50	800.79	800.81
E F H J K L	2647+95.21 2648+05.23 2648+15.24 2648+25.24 2648+35.23 2648+45.22 2648+55.21	-1.50 -1.50 -1.50 -1.50 -1.50 -1.50 -1.50	800.82 800.84 800.85 800.87 800.88 800.88 800.88	800.86 800.90 800.93 800.96 800.97 800.95 800.93
Brg. Pier 2	2648+68.01	-1.50	800.87	800.89
M N P R	2648+77.98 2648+87.94 2648+97.89 2649+07.85	-1.50 -1.50 -1.50 -1.50	800.87 800.85 800.84 800.82	800.90 800.87 800.86 800.84
g. N. Abutment	2649+15.62	-1.50	800.80	800.82
N. Abutment	2649+17.56	-1.50	800.79	800.81

1	ONS 4		F.A.I RTE	SEC <sup>-</sup>	FION		COUNTY	TOTAL SHEETS	SHEET NO.
11	1-0208/020	٥	*	(201-3)R 8	k (4-1,5)R	1	WINNEBAGO	1685	560
	1-0200/020	J					CONTRACT	NO. 640	224
s	STA.	TO STA.			ILLINOIS	FED. AI	D PROJECT		

### NORTHBOUND FACE OF MEDIAN PARAPET

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. S. Abutment	2647+36.37	1.50	800.63	800.65
⊈ Brg. S. Abutment	2647+38.34	1.50	800.63	800.65
A B C D	2647+48.38 2647+58.42 2647+68.46 2647+78.48	1.50 1.50 1.50 1.50	800.67 800.71 800.75 800.77	800.69 800.73 800.77 800.79
€ Brg. Pier 1	2647+86.32	1.50	800.79	800.81
E F G H J K L	2647+96.33 2648+06.34 2648+16.34 2648+26.34 2648+36.33 2648+46.31 2648+56.29	1.50 1.50 1.50 1.50 1.50 1.50 1.50	800.82 800.84 800.86 800.87 800.88 800.88 800.88	800.86 800.90 800.94 800.96 800.97 800.95 800.93
€ Brg. Pier 2	2648+69.08	1.50	800.87	800.89
M N P R	2648+79.05 2648+89.00 2648+98.95 2649+08.90	1.50 1.50 1.50 1.50	800.87 800.85 800.84 800.81	800.90 800.87 800.86 800.83
€ Brg. N. Abutment	2649+16.67	1.50	800.80	800.82
Bk. N. Abutment	2649+18.61	1.50	800.79	800.81

## NORTHBOUND PGL & EDGE OF ROADWAY

	BEA	M 11			
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding	Location
Bk. S. Abutment	2647+36.69	2.33	800.73	800.75	Bk. S. Abutme
⊈ Brg. S. Abutment	2647+38.65	2.31	800.73	800.75	⊈ Brg. S. Abutm
A B C D	2647+48.64 2647+58.64 2647+68.63 2647+78.63	2.17 2.06 1.96 1.89	800.77 800.80 800.83 800.86	800.79 800.82 800.85 800.88	A B C D
€ Brg. Pier 1	2647+86.44	1.84	800.88	800.90	€ Brg. Pier 1
E F G H J K L	2647+96.44 2648+06.44 2648+16.43 2648+26.43 2648+36.43 2648+36.43 2648+46.42 2648+56.42	1.79 1.76 1.74 1.75 1.77 1.81 1.87	800.90 800.92 800.94 800.95 800.96 800.96 800.96	800.94 800.98 801.02 801.04 801.05 801.03 801.01	E F G H J K L
⊈ Brg. Pier 2	2648+69.25	1.97	800.96	800.98	€ Brg. Pier 2
M N P R	2648+79.25 2648+89.24 2648+99.24 2649+09.23	2.06 2.18 2.31 2.46	800.96 800.95 800.93 800.92	800.99 800.97 800.95 800.94	M N P R
⊈ Brg. N. Abutment	2649+17.04	2.59	800.90	800.92	€ Brg. N. Abutm
Bk. N. Abutment	2649+19.00	2.62	800.90	800.92	Bk. N. Abutme

<u>BEAM 13</u>

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding	Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding	Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. S. Abutment	2647+40.98	13.50	801.12	801.14	Bk. S. Abutment	2647+42.60	17.75	801.28	801.30	Bk. S. Abutment	2647+45.55	25.47	801.55	801.57
€ Brg. S. Abutment	2647+42.94	13.50	801.13	801.15	€ Brg. S. Abutment	2647+44.55	17.73	801.28	801.30	⊈ Brg. S. Abutment	2647+47.49	25.44	801.56	801.58
A	2647+52.96	13.50	801.17	801.19	A	2647+54.52	17.61	801.32	801.34	А	2647+57.45	25.32	801.59	801.61
В	2647+62.98	13.50	801.21	801.23	В	2647+64.49	17.50	801.35	801.37	В	2647+67.40	25.23	801.62	801.64
С	2647+72.99	13.50	801.24	801.26	С	2647+74.46	17.42	801.38	801.40	С	2647+77.36	25.14	801.65	801.67
D	2647+82.99	13.50	801.27	801.29	D	2647+84.43	17.35	801.40	801.42	D	2647+87.32	25.08	801.67	801.69
€ Brg. Pier 1	2647+90.80	13.50	801.29	801.31	€ Brg. Pier 1	2647+92.22	17.31	801.42	801.44	€ Brg. Pier 1	2647+95.10	25.04	801.69	801.71
Е	2648+00.79	13.50	801.31	801.35	Е	2648+02.19	17.27	801.44	801.48	Е	2648+05.06	25.01	801.71	801.75
F	2648+10.78	13.50	801.33	801.40	F	2648+12.16	17.25	801.46	801.53	F	2648+15.01	25.00	801.72	801.79
G	2648+20.76	13.50	801.34	801.43	G	2648+22.13	17.24	801.47	801.56	G	2648+24.97	25.00	801.74	801.83
н	2648+30.73	13.50	801.35	801.45	Н	2648+32.10	17.26	801.48	801.58	н	2648+34.93	25.02	801.75	801.85
1	2648+40.70	13.50	801.36	801.45	J J	2648+42.07	17.29	801.49	801.58	J J	2648+44.88	25.05	801.75	801.84
ĸ	2648+50.66	13.50	801.36	801.44	ĸ	2648+52.04	17.34	801.49	801.57	ĸ	2648+54.84	25.11	801.75	801.83
L	2648+60.61	13.50	801.36	801.41	L	2648+62.01	17.41	801.49	801.54	L	2648+64.79	25.18	801.75	801.80
€ Brg. Pier 2	2648+73.37	13.50	801.35	801.37	€ Brg. Pier 2	2648+74.80	17.52	801.49	801.51	⊈ Brg. Pier 2	2648+77.57	25.30	801.75	801.77
М	2648+83.31	13.50	801.34	801.37	М	2648+84.77	17.62	801.48	801.51	М	2648+87.53	25.41	801.74	801.77
N	2648+93.24	13.50	801.32	801.35	N	2648+94.74	17.75	801.47	801.50	N	2648+97.48	25.54	801.73	801.76
Р	2649+03.17	13.50	801.31	801.33	Р	2649+04.71	17.89	801.45	801.47	Р	2649+07.44	25.68	801.71	801.73
R	2649+13.09	13.50	801.28	801.30	R	2649+14.68	18.05	801.43	801.45	R	2649+17.39	25.84	801.69	801.71
⊈ Brg. N. Abutment	2649+20.84	13.50	801.26	801.28	⊈ Brg. N. Abutment	2649+22.47	18.18	801.42	801.44	⊈ Brg. N. Abutment	2649+25.17	25.98	801.68	801.70
Bk. N. Abutment	2649+22.78	13.50	801.26	801.28	Bk. N. Abutment	2649+24.42	18.22	801.41	801.43	Bk. N. Abutment	2649+27.11	26.02	801.67	801.69

SHEET	
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Ш Ш Ш		USER NAME = Ifranceschina	DESIGNED - JW	REVISED -			SLAB ELEVATIONS 5	F.A.I RTE	SECTION	COUNTY TOTAL SHEET
NAN NAN	Bowman 10 & LaSalle Street, Suite 2110 Chisago, Illinois 60603		DRAWN - DSO	REVISED -	STATE OF ILLINOIS		STRUCTURE NO. 101-0208/0209	*	(201-3)R & (4-1,5)R	WINNEBAGO 1685 561
밀빌	BUVVIIICII 312-614-0360 www.bowman.com	PLOT SCALE = \$SCALE\$	CHECKED - AJN	REVISED -	DEPARTMENT OF TRANSPORTATION		STRUCTURE NO: 101-0200/0209	_		CONTRACT NO. 64C24
ΣŒ		PLOT DATE = 8/12/2024	DATE - 02/27/24	REVISED -		SCALE:	SHEET 18 OF 60 SHEETS STA. TO STA.		ILLINOIS FED.	AID PROJECT
-							* FAI ROUTE 39 (I-39) & FAP 301	(US 20) ·		

MODEL: FILE NA

	BEA	<u>M 12</u>		
n	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
ment	2647+39.65	10.04	801.00	801.02
tment	2647+41.60	10.02	801.01	801.03
	2647+51.58 2647+61.57 2647+71.55 2647+81.53	9.89 9.78 9.69 9.62	801.04 801.08 801.10 801.13	801.06 801.10 801.12 801.15
er 1	2647+89.34	9.57	801.15	801.17
	2647+99.32 2648+09.30 2648+19.29 2648+29.27 2648+39.25 2648+49.24 2648+59.22	9.53 9.50 9.49 9.50 9.53 9.57 9.64	801.17 801.19 801.20 801.22 801.22 801.23 801.23	801.21 801.26 801.29 801.32 801.31 801.31 801.28
er 2	2648+72.03	9.74	801.22	801.24
	2648+82.01 2648+92.00 2649+01.98 2649+11.96	9.84 9.96 10.10 10.25	801.22 801.21 801.19 801.18	801.25 801.24 801.21 801.20
ıtment	2649+19.76	10.38	801.16	801.18
ment	2649+21.71	10.42	801.16	801.18

<u>BEAM 14</u>

## <u>BEAM 15</u>

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. S. Abutment	2647+48.49	33.18	801.82	801.84
DR. S. Abdiment	2047 140.45	55.10	001.02	001.04
🕻 Brg. S. Abutment	2647+50.43	33.16	801.83	801.85
А	2647+60.37	33.04	801.86	801.88
В	2647+70.31	32.95	801.89	801.91
Ċ	2647+80.25	32.87	801.92	801.94
D	2647+90.20	32.82	801.94	801.96
€ Brg. Pier 1	2647+97.97	32.78	801.96	801.98
Е	2648+07.91	32.75	801.98	802.02
F	2648+17.86	32.74	801.99	802.06
G	2648+27.80	32.75	802.01	802.10
H U	2648+37.74	32.78	802.01	802.11
, in the second se	2648+47.69	32.82	802.02	802.11
ĸ	2648+57.63	32.88	802.02	802.10
Ĺ	2648+67.57	32.95	802.02	802.07
€ Brg. Pier 2	2648+80.33	33.08	802.01	802.03
м	2648+90.27	33.19	802.00	802.03
N	2649+00.21	33.32	801.99	802.02
P	2649+10.15	33.48	801.97	801.99
R	2649+20.09	33.64	801.95	801.97
⊈ Brg. N. Abutment	2649+27.86	33.79	801.93	801.95
Bk. N. Abutment	2649+29.81	33.82	801.93	801.95

## NORTHBOUND STAGE CONSTRUCTION

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding	Location
Bk. S. Abutment	2647+49.11	34.83	801.88	801.90	Bk. S. Abutme
€ Brg. S. Abutment	2647+51.06	34.83	801.89	801.91	⊈ Brg. S. Abutn
A B C D	2647+61.04 2647+71.02 2647+80.99 2647+90.95	34.83 34.83 34.83 34.83 34.83	801.93 801.96 801.99 802.01	801.95 801.98 802.01 802.03	A B C D
€ Brg. Pier 1	2647+98.73	34.83	802.03	802.05	€ Brg. Pier
E F G H J K L	2648+08.68 2648+18.62 2648+28.56 2648+38.49 2648+48.41 2648+58.33 2648+68.24	34.83 34.83 34.83 34.83 34.83 34.83 34.83 34.83	802.05 802.06 802.08 802.08 802.09 802.09 802.09	802.09 802.13 802.17 802.18 802.18 802.17 802.13	E F H J K L
€ Brg. Pier 2	2648+80.95	34.83	802.07	802.09	⊈ Brg. Pier 2
M N P R	2648+90.85 2649+00.74 2649+10.63 2649+20.51	34.83 34.83 34.83 34.83 34.83	802.05 802.04 802.01 801.99	802.08 802.07 802.03 802.01	M N P R
⊈ Brg. N. Abutment	2649+28.23	34.83	801.97	801.99	€ Brg. N. Abutr
Bk. N. Abutment	2649+30.15	34.83	801.96	801.98	Bk. N. Abutme

## <u>BEAM 17</u>

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding	Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding	Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. S. Abutment	2647+54.33	48.61	802.37	802.39	Bk. S. Abutment	2647+57.25	56.33	802.64	802.66	Bk. S. Abutment	2647+59.19	61.50	802.83	802.85
€ Brg. S. Abutment	2647+56.27	48.59	802.38	802.40	€ Brg. S. Abutment	2647+59.18	56.31	802.65	802.67	€ Brg. S. Abutment	2647+61.13	61.50	802.83	802.85
A	2647+66.19	48.49	802.41	802.43	A	2647+69.08	56.21	802.68	802.70	A	2647+71.06	61.50	802.87	802.89
В	2647+76.10	48.40	802.43	802.45	В	2647+78.99	56.13	802.70	802.72	В	2647+80.98	61.50	802.89	802.91
С	2647+86.02	48.34	802.46	802.48	С	2647+88.89	56.07	802.73	802.75	С	2647+90.90	61.50	802.92	802.94
D	2647+95.93	48.29	802.48	802.50	D	2647+98.79	56.03	802.75	802.77	D	2648+00.81	61.50	802.94	802.96
€ Brg. Pier 1	2648+03.69	48.26	802.50	802.52	⊊ Brg. Pier 1	2648+06.53	56.01	802.77	802.79	⊊ Brg. Pier 1	2648+08.55	61.50	802.96	802.98
E	2648+13.60	48.25	802.51	802.55	E	2648+16.44	55.99	802.78	802.82	Е	2648+18.44	61.50	802.97	803.01
F	2648+23.52	48.25	802.53	802.60	F	2648+26.34	56.00	802.79	802.86	F	2648+28.34	61.50	802.98	803.05
G	2648+33.44	48.26	802.54	802.63	G	2648+36.24	56.02	802.80	802.89	G	2648+38.22	61.50	802.99	803.08
Н	2648+43.35	48.30	802.54	802.64	н	2648+46.15	56.06	802.81	802.91	Н	2648+48.10	61.50	802.99	803.09
1	2648+53.27	48.35	802.54	802.63	J J	2648+56.05	56.12	802.81	802.90	J	2648+57.97	61.50	802.99	803.08
ĸ	2648+63.18	48.42	802.54	802.62	ĸ	2648+65.95	56.19	802.81	802.89	ĸ	2648+67.84	61.50	802.99	803.07
L	2648+73.10	48.50	802.54	802.59	L	2648+75.85	56.28	802.80	802.85	L	2648+77.70	61.50	802.98	803.03
€ Brg. Pier 2	2648+85.83	48.64	802.53	802.55	€ Brg. Pier 2	2648+88.56	56.42	802.79	802.81	€ Brg. Pier 2	2648+90.34	61.50	802.96	802.98
М	2648+95.74	48.76	802.52	802.55	м	2648+98.46	56.55	802.78	802.81	М	2649+00.19	61.50	802.95	802.98
Ν	2649+05.65	48.91	802.50	802.53	N	2649+08.36	56.70	802.76	802.79	N	2649+10.03	61.50	802.92	802.95
Р	2649+15.57	49.07	802.49	802.51	Р	2649+18.26	56.86	802.75	802.77	Р	2649+19.86	61.50	802.90	802.92
R	2649+25.48	49.24	802.47	802.49	R	2649+28.16	57.05	802.72	802.74	R	2649+29.69	61.50	802.87	802.89
€ Brg. N. Abutment	2649+33.23	49.39	802.45	802.47	⊈ Brg. N. Abutment	2649+35.90	57.20	802.70	802.72	🖉 Brg. N. Abutment	2649+37.37	61.50	802.85	802.87
Bk. N. Abutment	2649+35.17	49.43	802.44	802.46	Bk. N. Abutment	2649+37.84	57.24	802.70	802.72	Bk. N. Abutment	2649+39.29	61.50	802.84	802.86

<u>BEAM 18</u>

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S	

E E		USER NAME = Ifranceschina	DESIGNED - JW	REVISED -			SLAB ELEVATIO	ONS 6	F.A.I RTE	SECTION	COUNTY TOTAL SHEET
NAN I	Bowman <sup>10 &amp; LaSalle Street, Suite 2110</sup> Chicago, Illinois 60603 312-574-0380		DRAWN - DSO	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 101-0208/0209			*	(201-3)R & (4-1,5)R	WINNEBAGO 1685 562
B۳	BOAALICAL 312-614-0360 www.bowman.com	PLOT SCALE = \$SCALE\$	CHECKED - AJN	REVISED -	DEPARTMENT OF TRANSPORTATION						CONTRACT NO. 64C24
≥≖		PLOT DATE = 8/12/2024	DATE - 02/27/24	REVISED -		SCALE:	SHEET 19 OF 60 SHEETS	STA. TO STA.		ILLINOIS FED.	AID PROJECT
_								* FAI ROUTE 39 (I-39) & FAP 301	(US 20) ·		

MODEL: FILE NAI

	BEA	<u>M 16</u>		
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
. S. Abutment	2647+51.41	40.89	802.10	802.12
rg. S. Abutment	2647+53.35	40.87	802.10	802.12
A B C D	2647+63.28 2647+73.21 2647+83.14 2647+93.07	40.77 40.68 40.61 40.55	802.14 802.16 802.19 802.21	802.16 802.18 802.21 802.23
€ Brg. Pier 1	2648+00.83	40.52	802.23	802.25
Е F H J K L	2648+10.76 2648+20.69 2648+30.62 2648+40.55 2648+50.48 2648+60.41 2648+70.34	40.50 40.49 40.51 40.54 40.58 40.65 40.73	802.25 802.26 802.27 802.28 802.28 802.28 802.28	802.29 802.33 802.36 802.38 802.37 802.36 802.33
🖞 Brg. Pier 2	2648+83.08	40.86	802.27	802.29
M N P R	2648+93.01 2649+02.94 2649+12.86 2649+22.79	40.98 41.12 41.27 41.44	802.26 802.25 802.23 802.21	802.29 802.28 802.25 802.23
rg. N. Abutment	2649+30.55	41.59	802.19	802.21
. N. Abutment	2649+32.49	41.63	802.19	802.21

## NORTHBOUND EDGE OF ROADWAY

	<u>BE</u> 4	AM 19				BEA	M 20			
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding	Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding	Location
Bk. S. Abutment	2647+60.15	64.05	802.92	802.94	Bk. S. Abutment	2647+63.05	71.77	803.19	803.21	Bk. S. Abutme
€ Brg. S. Abutment	2647+62.08	64.03	802.92	802.94	€ Brg. S. Abutment	2647+64.98	71.75	803.20	803.22	⊈ Brg. S. Abutm
A	2647+71.97	63.94	802.95	802.97	А	2647+74.85	71.67	803.22	803.24	A
В	2647+81.86	63.86	802.97	802.99	В	2647+84.73	71.60	803.25	803.27	В
С	2647+91.75	63.81	803.00	803.02	С	2647+94.61	71.55	803.27	803.29	С
D	2648+01.64	63.77	803.02	803.04	D	2648+04.48	71.51	803.29	803.31	D
€ Brg. Pier 1	2648+09.37	63.75	803.03	803.05	⊊ Brg. Pier 1	2648+12.20	71.50	803.30	803.32	€ Brg. Pier 1
Е	2648+19.26	63.74	803.05	803.09	Е	2648+22.08	71.49	803.32	803.36	E
F	2648+29.15	63.75	803.06	803.13	F	2648+31.96	71.51	803.33	803.39	F
G	2648+39.04	63.78	803.07	803.16	G	2648+41.83	71.54	803.33	803.41	G
Н	2648+48.93	63.82	803.07	803.17	Н	2648+51.71	71.59	803.34	803.43	Н
J	2648+58.82	63.88	803.07	803.16	J	2648+61.59	71.66	803.34	803.43	J
К	2648+68.71	63.96	803.07	803.15	К	2648+71.46	71.74	803.33	803.40	K
L	2648+78.60	64.06	803.07	803.12	L	2648+81.34	71.84	803.33	803.38	L
€ Brg. Pier 2	2648+91.29	64.21	803.05	803.07	⊈ Brg. Pier 2	2648+94.01	71.99	803.31	803.33	€ Brg. Pier 2
М	2649+01.18	64.34	803.04	803.07	М	2649+03.89	72.13	803.30	803.33	м
Ν	2649+11.07	64.49	803.02	803.05	N	2649+13.76	72.29	803.28	803.30	N
Р	2649+20.95	64.66	803.00	803.02	Р	2649+23.64	72.46	803.26	803.28	P
R	2649+30.84	64.85	802.98	803.00	R	2649+33.51	72.66	803.24	803.26	R
Ç Brg. N. Abutment	2649+38.57	65.01	802.96	802.98	⊈ Brg. N. Abutment	2649+41.23	72.82	803.22	803.24	€ Brg. N. Abutm

Bk. N. Abutment

2649+43.16

803.21

803.23

72.86

65.05 802.96

802.98

2649+40.50

Bk. N. Abutn

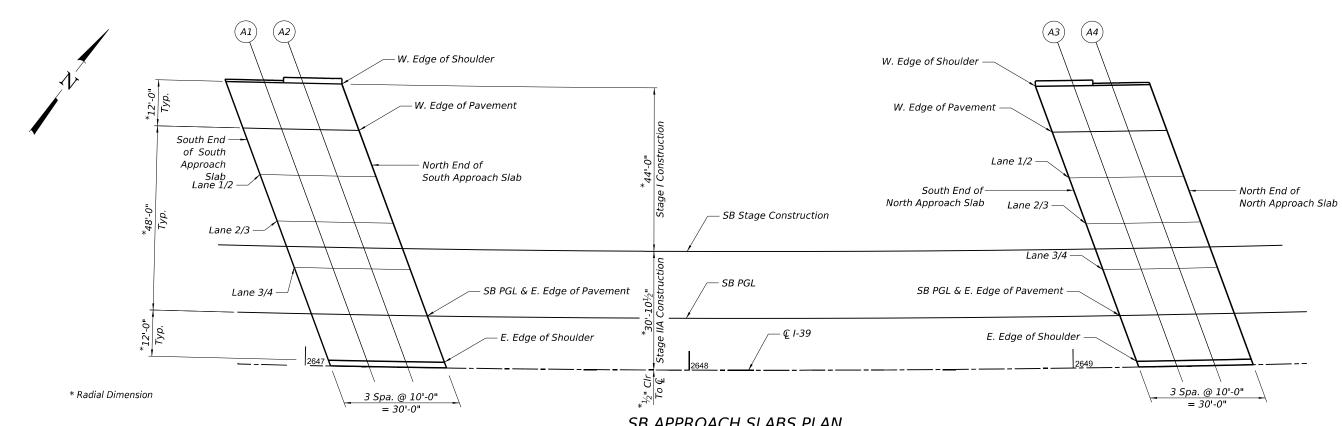
Bk. N. Abutment

Чü		USER NAME = Ifranceschina	DESIGNED - JW	REVISED -			SLAB ELEVATION		
ΞΨ.	Rolanoon 10 S. LaSalle Street, Suite 2110 Chicago, Illinois 60603		DRAWN - DSO	REVISED -	STATE OF ILLINOIS				
39		PLOT SCALE = \$SCALE\$	CHECKED - AJN	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 101-0			
Ξœ		PLOT DATE = 8/12/2024	DATE - 02/27/24	REVISED -		SCALE:	SHEET 20 OF 60 SHEETS S		

# NORTHBOUND FACE OF PARAPET

ation	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
butment	2647+63.70	73.50	802.36	802.38
Abutment	2647+65.63	73.50	802.37	802.39
A B C D	2647+75.54 2647+85.44 2647+95.33 2648+05.21	73.50 73.50 73.50 73.50	802.40 802.42 802.45 802.47	802.42 802.44 802.47 802.49
ı. Pier 1	2648+12.94	73.50	802.48	802.50
E F G H J K L	2648+22.81 2648+32.68 2648+42.54 2648+52.39 2648+62.24 2648+72.09 2648+81.92	73.50 73.50 73.50 73.50 73.50 73.50 73.50	802.50 802.51 802.51 802.51 802.51 802.50 802.49	802.54 802.57 802.59 802.60 802.60 802.57 802.54
. Pier 2	2648+94.54	73.50	802.47	802.49
M N P R	2649+04.36 2649+14.18 2649+23.99 2649+33.80	73.50 73.50 73.50 73.50	802.46 802.43 802.41 802.38	802.49 802.45 802.43 802.40
Abutment	2649+41.46	73.50	802.35	802.37
Abutment	2649+43.37	73.50	802.34	802.36

ГІС	NS 7		F.A.I RTE	SEC	ION		COUNTY	TOTAL SHEETS	SHEET NO.
01	-0208/0	209	*	(201-3)R 8	k (4 <b>-</b> 1,5)R		WINNEBAGO	1685	563
	-0200/0	209					CONTRACT	NO. 640	C24
rs	STA.	TO STA.			ILLINOIS	FED. AI	D PROJECT		
		* FAI ROUTE 39 (I-39) & FAP	301 (US 20)						



# SB APPROACH SLABS PLAN

# SB STAGE CONSTRUCTION

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding	Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grad Elevations Adjusted For Grinding
S. End of S. Appr. Slab	2646+94.46	-30.92	800.35	800.37	S. End of S. Appr. Slab	2647+01.32	-13.50	800.96	800.98
Al	2647+04.59	-30.92	800.39	800.41	A1	2647+11.42	-13.50	801.01	801.03
A2	2647+14.72	-30.92	800.43	800.45	A2	2647+21.51	-13.50	801.04	801.06
N. End of S. Appr. Slab	2647+24.84	-30.92	800.47	800.49	N. End of S. Appr. Slab	2647+31.59	-13.50	801.08	801.10
S. End of N. Appr. Slab	2649+06.24	-30.92	800.71	800.73	S. End of N. Appr. Slab	2649+12.37	-13.50	801.28	801.30
A3	2649+16.24	-30.92	800.68	800.70	A3	2649+22.33	-13.50	801.26	801.28
A4	2649+26.23	-30.92	800.66	800.68	A4	2649+32.29	-13.50	801.23	801.25
N. End of N. Appr. Slab	2649+36.21	-30.92	800.63	800.65	N. End of N. Appr. Slab	2649+42.24	-13.50	801.20	801.22

# LANE 1/2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
S. End of S. Appr. Slab A1 A2 N. End of S. Appr. Slab	2646+97.26 2647+07.42	-49.50 -49.50	799.73 799.77	799.71 799.75 799.79 799.83
S. End of N. Appr. Slab A3 A4 N. End of N. Appr. Slab	2649+09.69 2649+19.72	-49.50 -49.50	800.07 800.04	800.11 800.09 800.06 800.03

# WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grad Elevations Adjusted For Grinding
S. End of S. Appr. Slab A1 A2 N. End of S. Appr. Slab	2646+87.71 2646+97.93	-73.50 -73.50	798.8 <b>7</b> 798.91	798.85 798.89 798.93 798.97
S. End of N. Appr. Slab A3 A4 N. End of N. Appr. Slab	2649+01.17 2649+11.24	-73.50 -73.50	799.27 799.25	799.31 799.29 799.27 799.24

## LANE 3/4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding	Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grac Elevations Adjusted For Grinding
=	2647+06.72 2647+16.84	-25.50 -25.50	800.58 800.62	800.56 800.60 800.64 800.68		2647+16.11 2647+26.18	-1.46 -1.46	801.48	801.41 801.45 801.50 801.54
-	2649+18.14 2649+28.11	-25.50 -25.50	800.86 800.83	800.91 800.88 800.85 800.82	-	2649+26.52 2649+36.45	-1.46 -1.46	801.66 801.63	801.70 801.68 801.65 801.61

# LANE 2/3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
S. End of S. Appr. Slab A1 A2 N. End of S. Appr. Slab	2647+02.00 2647+12.14	-37.50 -37.50	800.15 800.19	800.13 800.17 800.21 800.25
S. End of N. Appr. Slab A3 A4 N. End of N. Appr. Slab	2649+13.92 2649+23.93	-37.50 -37.50	800.47 800.44	800.51 800.49 800.46 800.43

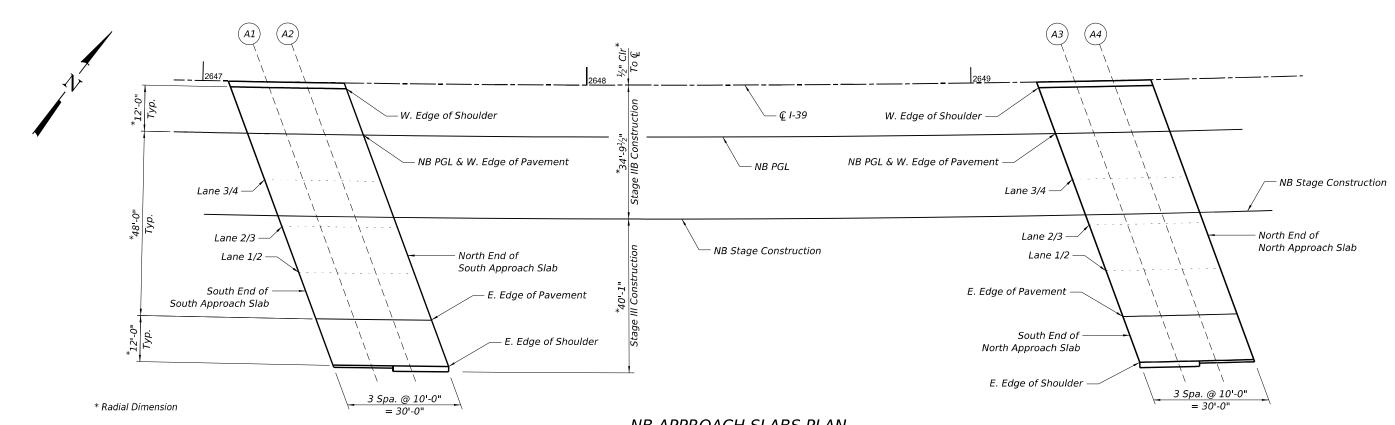
# WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
S. End of S. Appr. Slab A1 A2 N. End of S. Appr. Slab	2646+92.50 2647+02.69	-61.50 -61.50	799.30 799.34	799.28 799.32 799.36 799.40
S. End of N. Appr. Slab A3 A4 N. End of N. Appr. Slab	2649+05.44 2649+15.49	-61.50 -61.50	799.67 799.65	799.71 799.69 799.67 799.64

	USER NAME = Ifranceschina	DESIGNED -		REVISED -		<b>APPROACH SLAB ELEVATIONS - SOUTHBOUND</b>					F.A.I RTE	SECTION	COUNTY TOTAL SHEET SHEETS NO.	
Bowman 10 S. LaSalle Street. Suite 2110 Chicago, Illinois 60603 312-614-0350		DRAWN -	DSO	REVISED -					(201-3)R & (4-1,5)R	WINNEBAGO 1685 564				
BOAALICE 312-614-0360 www.bowman.com	PLOT SCALE = \$SCALE\$	CHECKED -	AJN	REVISED -	DEPARTMENT OF TRANSPORTATION		316	UCTORE	NU, 10	1-0200/020	09			CONTRACT NO. 64C24
	PLOT DATE = 8/12/2024	DATE -	02/27/24	REVISED -		SCALE:	SHEET 21	OF 60	SHEETS	S STA.	TO STA.		ILLINOIS FED.	AID PROJECT
											* FAI ROUTE 39 (I-39) & FAP 301	(US 20)		

# SB PGL & EAST EDGE OF PAVEMENT

## EAST EDGE OF SHOULDER



# NB APPROACH SLABS PLAN

LANE 2/3

Ľ	47	V	E	Ź

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding	Locatio	ิก	Station	Offset	Theoretical Grade Elevations	Theoretical Grad Elevations Adjusted For Grinding
S. End of S. Appr. Slab	2647+21.16	37.50	801.86	801.88	S. End of S. A	ppr. Slab	2647+30.36	61.50	802.71	802.73
Al	2647+31.15	37.50	801.90	801.92	Al		2647+40.31	61.50	802.75	802.77
A2	2647+41.14	37.50	801.94	801.96	A2		2647+50.25	61.50	802.79	802.81
N. End of S. Appr. Slab	2647+51.12	37.50	801.98	802.00	N. End of S. A	ppr. Slab	2647+60.19	61.50	802.83	802.85
S. End of N. Appr. Slab	2649+30.08	37.50	802.05	802.07	S. End of N. A	ppr. Slab	2649+38.31	61.50	802.84	802.86
A3	2649+39.95	37.50	802.02	802.04	A3		2649+48.13	61.50	802.80	802.82
A4	2649+49.81	37.50	801.98	802.00	A4		2649+57.94	61.50	802.77	802.79
N. End of N. Appr. Slab	2649+59.66	37.50	801.94	801.96	N. End of N. A	ppr. Slab	2649+67.74	61.50	802.72	802.74

# LANE 3/4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
S. End of S. Appr. Slab A1 A2 N. End of S. Appr. Slab	2647+21.91 2647+31.95	25.50 25.50	801.48	801.45 801.50 801.54 801.57
S. End of N. Appr. Slab A3 A4 N. End of N. Appr. Slab	2649+31.70 2649+41.60	25.50 25.50	801.66 801.63 801.59 801.55	801.68 801.65 801.61 801.57

## WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
S. End of S. Appr. Slab A1 A2 N. End of S. Appr. Slab S. End of N. Appr. Slab A3 A4 N. End of N. Appr. Slab	2649+17.60 2649+27.53 2649+37.46	$1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ 1.46 \\ $	800.58 800.62 800.66 800.70 800.86 800.83 800.83 800.80 800.77	800.60 800.64 800.68 800.72 800.88 800.85 800.82 800.79

## LANE 1/2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grad Elevations Adjusted For Grinding		
S. End of S. Appr. Slab A1 A2 N. End of S. Appr. Slab	2647+35.74 2647+45.71	49.50 49.50	802.33 802.37	802.31 802.35 802.39 802.42		
S. End of N. Appr. Slab A3 A4 N. End of N. Appr. Slab	2649+44.05 2649+53.88	49.50 49.50	802.41	802.47 802.43 802.39 802.35		

# NB STAGE CONSTRUCTION

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
=	2647+30.13 2647+40.12	34.83 34.83	801.77 801.81 801.85 801.89	801.79 801.83 801.87 801.91
-	2649+39.04 2649+48.90	34.83 34.83	801.96 801.93 801.90 801.86	801.98 801.95 801.92 801.88

### NB PGL & WEST EDGE OF PAVEMENT

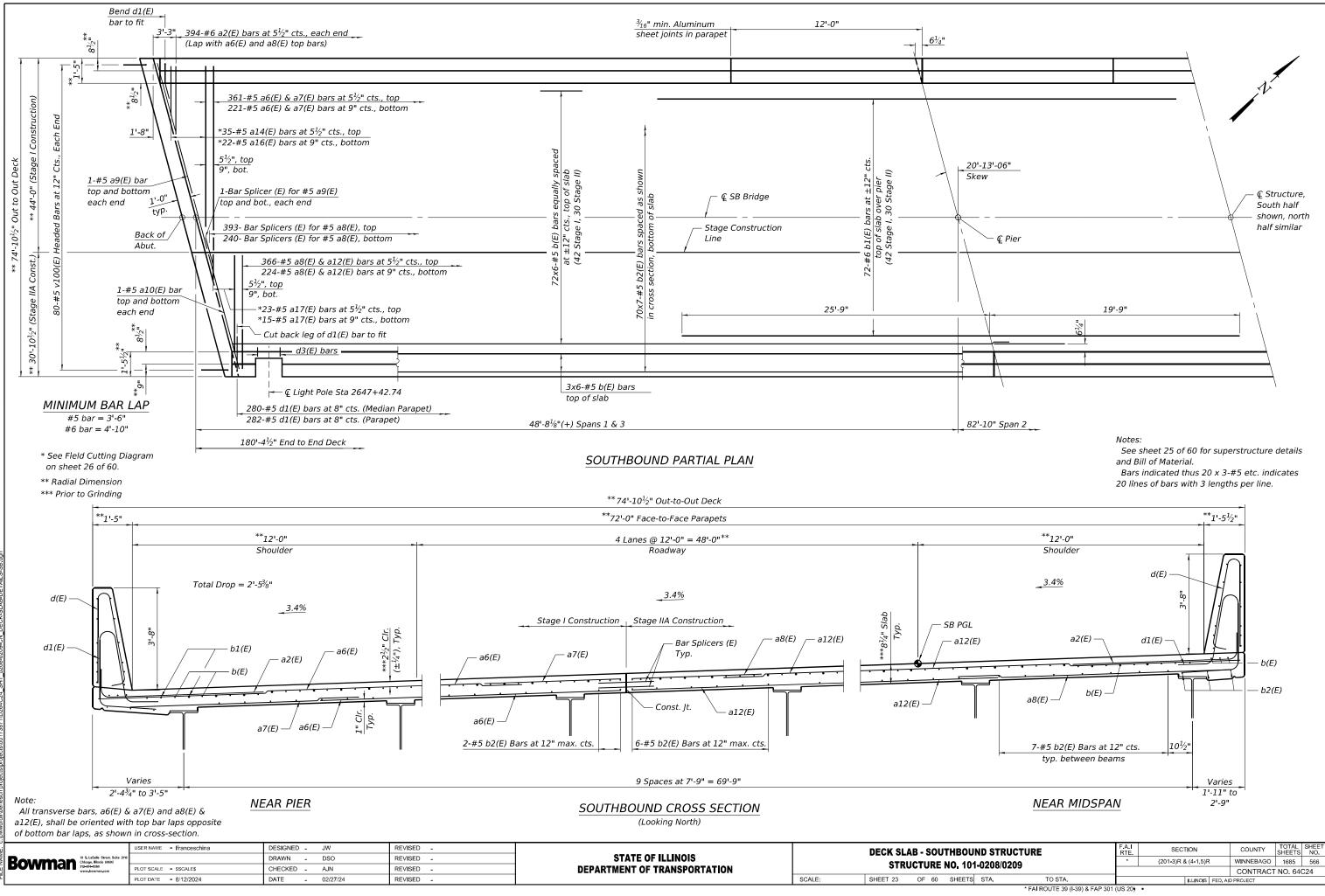
Location	Station Offset		Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding		
S. End of S. Appr. Slab A1 A2 N. End of S. Appr. Slab	2647+21.91 2647+31.95	13.50 13.50 13.50 13.50 13.50	801.01 801.05 801.09 801.13	801.03 801.07 801.11 801.15		
S. End of N. Appr. Slab A3 A4 N. End of N. Appr. Slab	2649+31.70 2649+41.60	13.50 13.50 13.50 13.50	801.26 801.23 801.20 801.16	801.28 801.25 801.22 801.18		

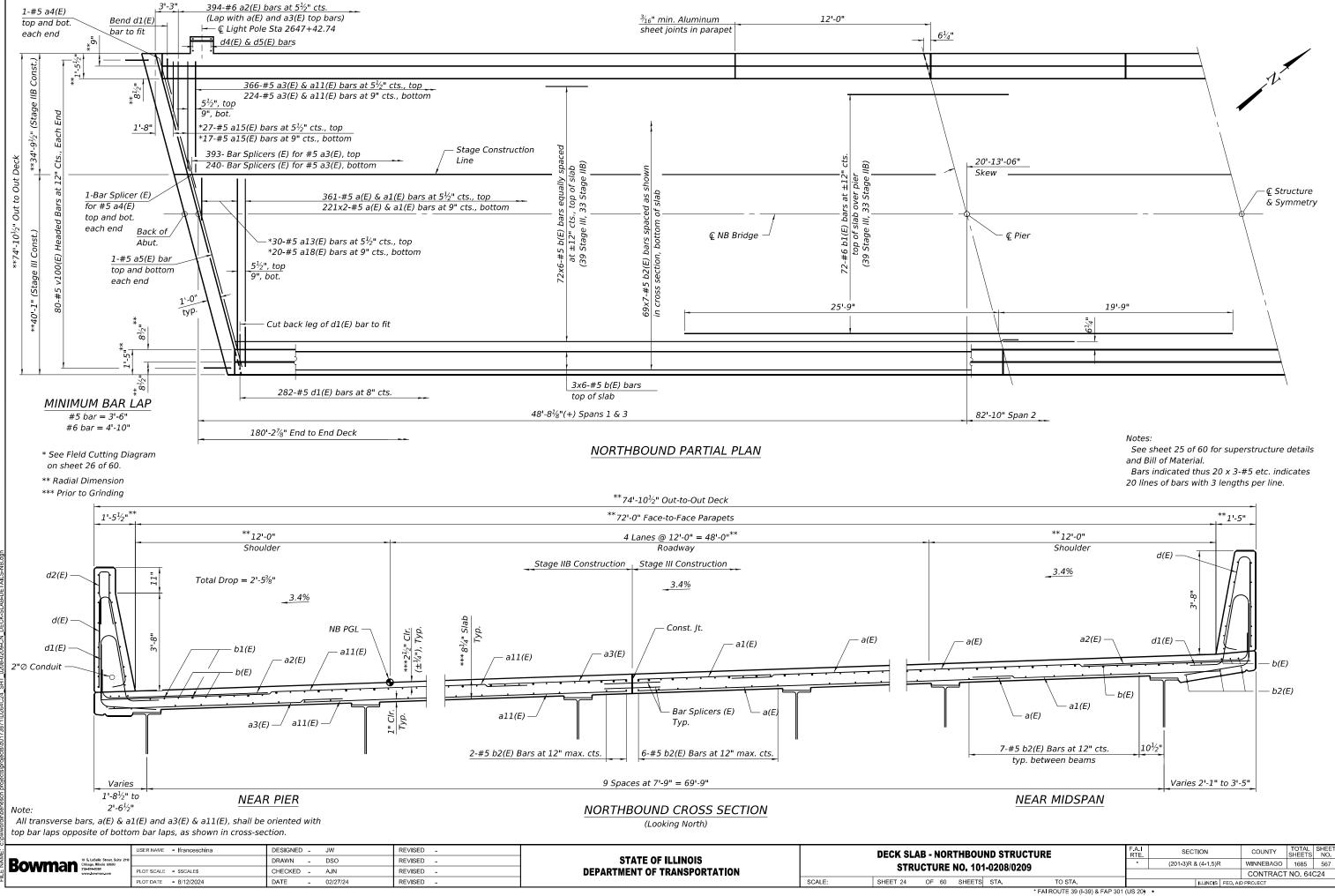
	USER NAME = Ifranceschina	DESIGNED -	JW	REVISED -		APPROACH SLAB ELEVATIONS - NORTHBOUND				SECTION	COUNTY TOTAL SHEET SHEETS NO.
Bowman <sup>10</sup> S. LaSalle Street, Suit Chicago, Illinois 60603 372-674-0380		DRAWN -	DSO	REVISED -	STATE OF ILLINOIS		STRUCTURE NO. 10		*	(201-3)R & (4-1,5)R	WINNEBAGO 1685 565
U DOVVIIIMI SAL SAL	PLOT SCALE = \$SCALE\$	CHECKED -	AJN	REVISED -	DEPARTMENT OF TRANSPORTATION		STREETERE NO; TO		_		CONTRACT NO. 64C24
	PLOT DATE = 8/12/2024	DATE -	02/27/24	REVISED -		SCALE:	SHEET 22 OF 60 SHEETS	'S STA. TO STA.		ILLINOIS FED.	AID PROJECT
								* FAI ROUTE 39 (I-39) & FAP 30	1 (US 20 <del>)</del>	•	•

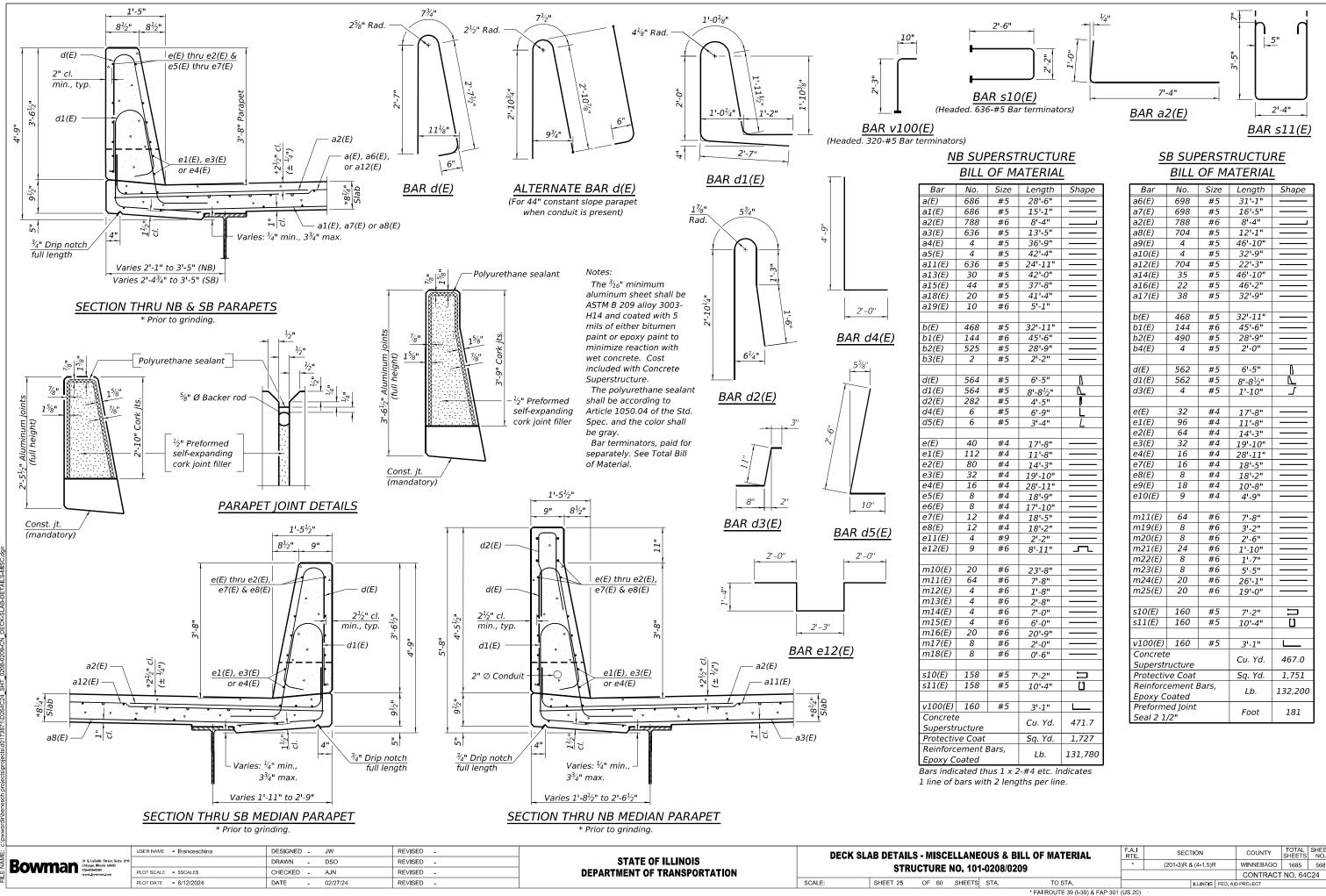
# EAST EDGE OF SHOULDER

# EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
S. End of S. Appr. Slab A1 A2 N. End of S. Appr. Slab	2647+44.86 2647+54.78	73.50 73.50	803.18	803.16 803.20 803.24 803.27
S. End of N. Appr. Slab A3 A4 N. End of N. Appr. Slab	2649+52.19 2649+61.98	73.50 73.50	803.20 803.16	803.25 803.22 803.18 803.13



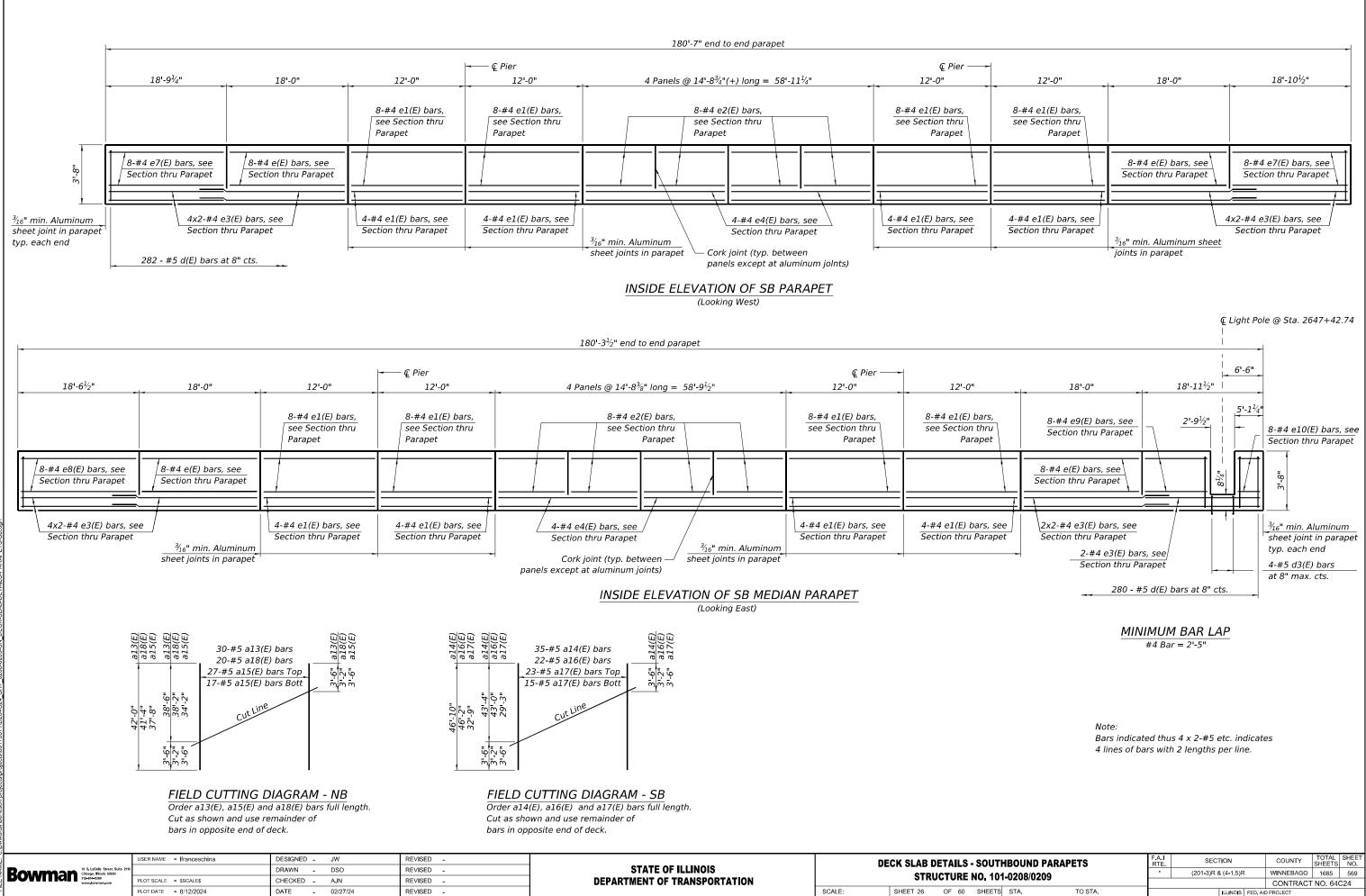




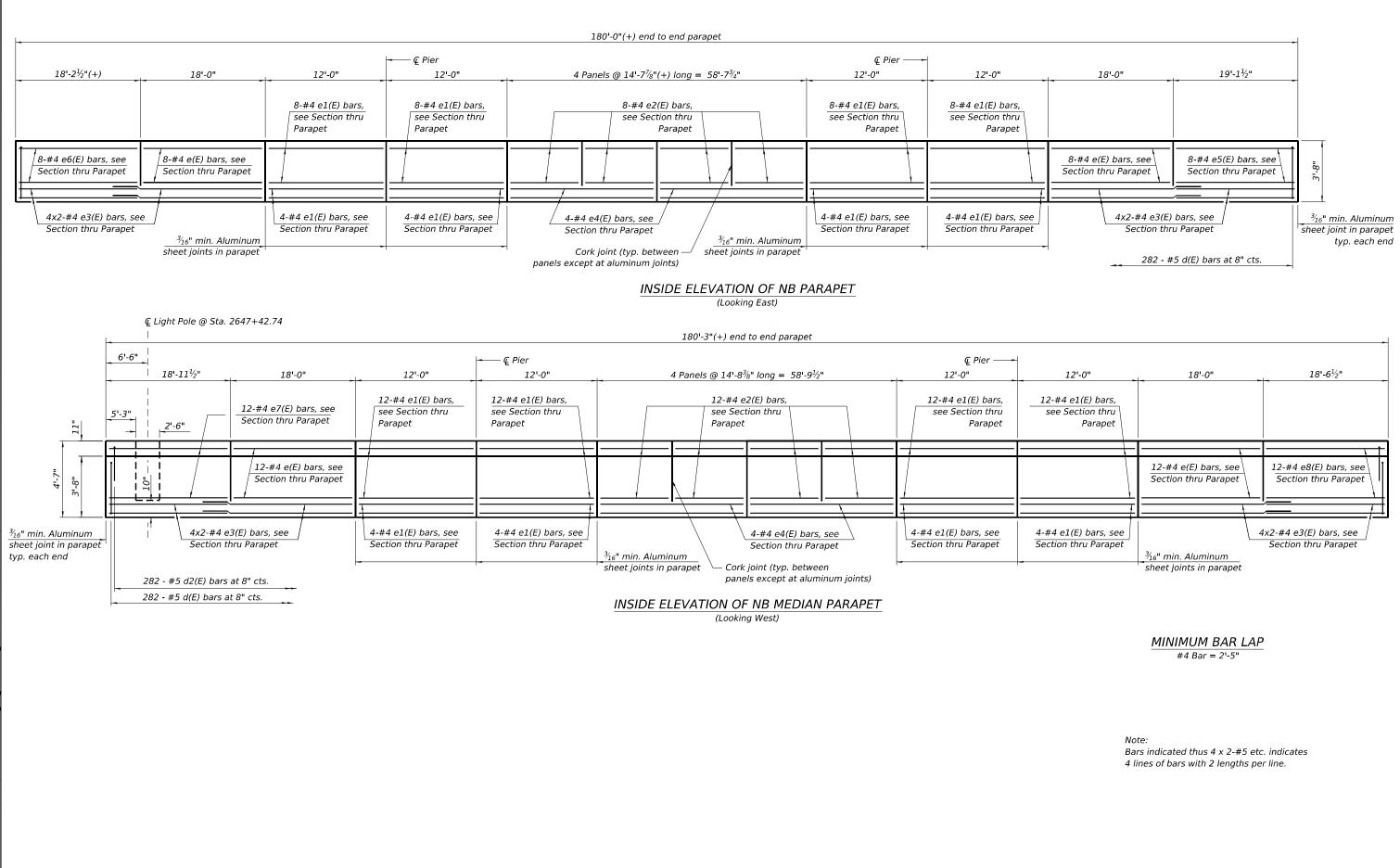
_L	OF M	ATERIAL	=
).	Size	Length	Shape
6	#5	28'-6"	
6	#5	15'-1"	
8	#6	8'-4"	
6	#5	13'-5"	
D			
	#5	36'-9"	
	#5	42'-4"	
6	#5	24'-11"	
2	#5	42'-0"	
4	#5	37'-8"	
)	#5	41'-4"	
2	#6	5'-1"	
8	#5	32'-11"	
4	#6	45'-6"	
5	#5	28'-9"	
	#5	2'-2"	
	#3	2 -2	
4	#5	6'-5"	Δ
4			
	#5	8'-8 <sup>1</sup> /2"	
2	#5	4'-5"	
	#5	6'-9"	Ļ
	#5	3'-4"	L
2	#4	17'-8"	
2	#4	11'-8"	
)	#4	14'-3"	
) 2 ) 2	#4	19'-10"	
5	#4	28'-11"	
	#4	18'-9"	
	#4	17'-10"	
2	#4	18'-5"	
2	#4	10-5	
		18'-2"	
	#9	2'-2"	
	#6	8'-11"	<u></u>
)	#6	23'-8"	
4	#6	7'-8"	
	#6	1'-8"	
	#6	2'-8"	
	#6	7'-0"	
	#6	6'-0"	
2	#6	20'-9"	
	#6	2'-0"	
	#6	0'-6"	
		00	
8	#5	7'-2"	
8	#5	10'-4"	Ü
	-	/	
0	#5	3'-1"	
ıre		Cu. Yd.	471.7
oat		Sq. Yd.	1,727
	Bars,		
d	:	Lb.	131,780

				-	
Bar	No.	Size	Length	Shape	
a6(E)	698	#5	31'-1"		
a7(E)	698 #5		16'-5"		
a2(E)	788	#6	8'-4"		
a8(E)	E) 704 #5		12'-1"		
a9(E)	. ,		46'-10"		
a10(E)	4	#5	32'-9"		
a12(E)	704	#5	22'-3"		
a14(E)	35	#5	46'-10"		
a16(E)	22	#5	46'-2"		
a17(E)	38	#5	32'-9"		
b(E)	468	#5	32'-11"		
b1(E)	144	#6	45'-6"		
b2(E)	490	#5	28'-9"		
b4(E)	4	#5	2'-0"		
~ ((_)	•				
d(E)	562	#5	6'-5"	Δ	
d1(E)	562	#5	8'-8 <sup>1</sup> /2"	Ň	
d3(E)	4	#5	<u> </u>		
UJ(L)	-	"5	1-10		
e(E)	32	#4	17'-8"		
e1(E)	96	#4	17-8		
e2(E)	64	#4			
e3(E)	32	#4	14'-3"		
	16	#4	19'-10"		
e4(E)	16		28'-11"		
e7(E)	10	#4 #4	18'-5"		
e8(E)	-		18'-2"		
e9(E)	18	#4	10'-8"		
e10(E)	9	#4	4'-9"		
	64	"			
m11(E)	64	#6	7'-8"		
m19(E)	8	#6	3'-2"		
m20(E)	8	#6	2'-6"		
m21(E)	24	#6	1'-10"		
m22(E)	8	#6	1'-7"		
m23(E)	8	#6	5'-5"		
m24(E)	20	#6	26'-1"		
m25(E)	20	#6	19'-0"		
10/5	1.00				
s10(E)	160	#5	7'-2"		
s11(E)	160	#5	10'-4"	U	
				L .	
v100(E)		#5	3'-1"		
Concret		Cu. Yd.	467.0		
Superst					
Protecti		Sq. Yd.	1,751		
Reinford		Lb.	132,200		
Ероху С		LD.	132,200		
Preform		Foot	181		
Seal 2 1	/2"		1000	101	

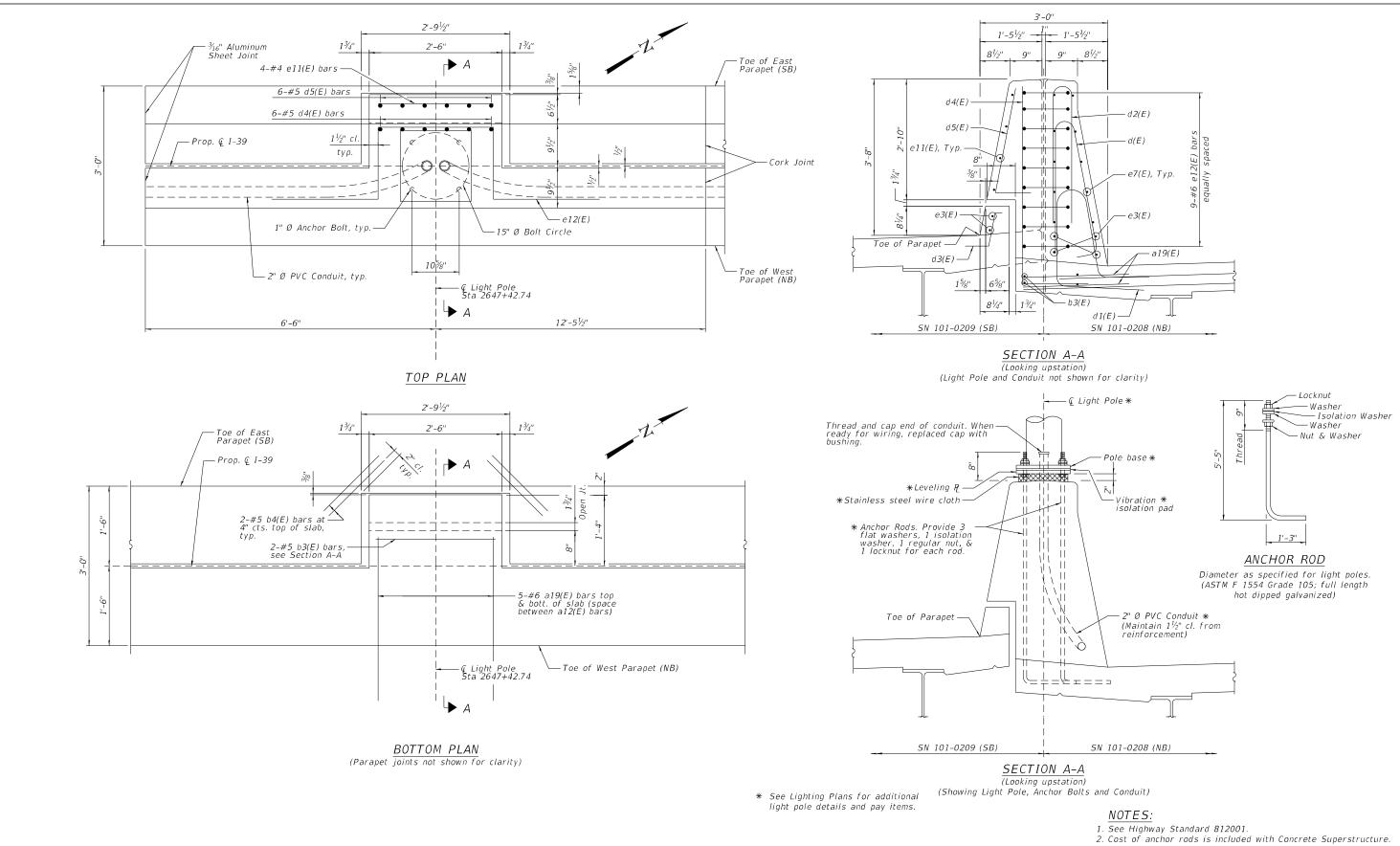
NEOUS & BILL OF MATERIAL 01-0208/0209			F.A.I RTE	SECTION			COUNTY	TOTAL SHEETS	SHEET NO.
			*	(201-3)R 8	k (4 <b>-</b> 1,5)R		WINNEBAGO	1685	568
							CONTRACT	NO. 640	224
тs	STA.	TO STA.	ILLINOIS FED. AID PROJECT						
			(110,00)						



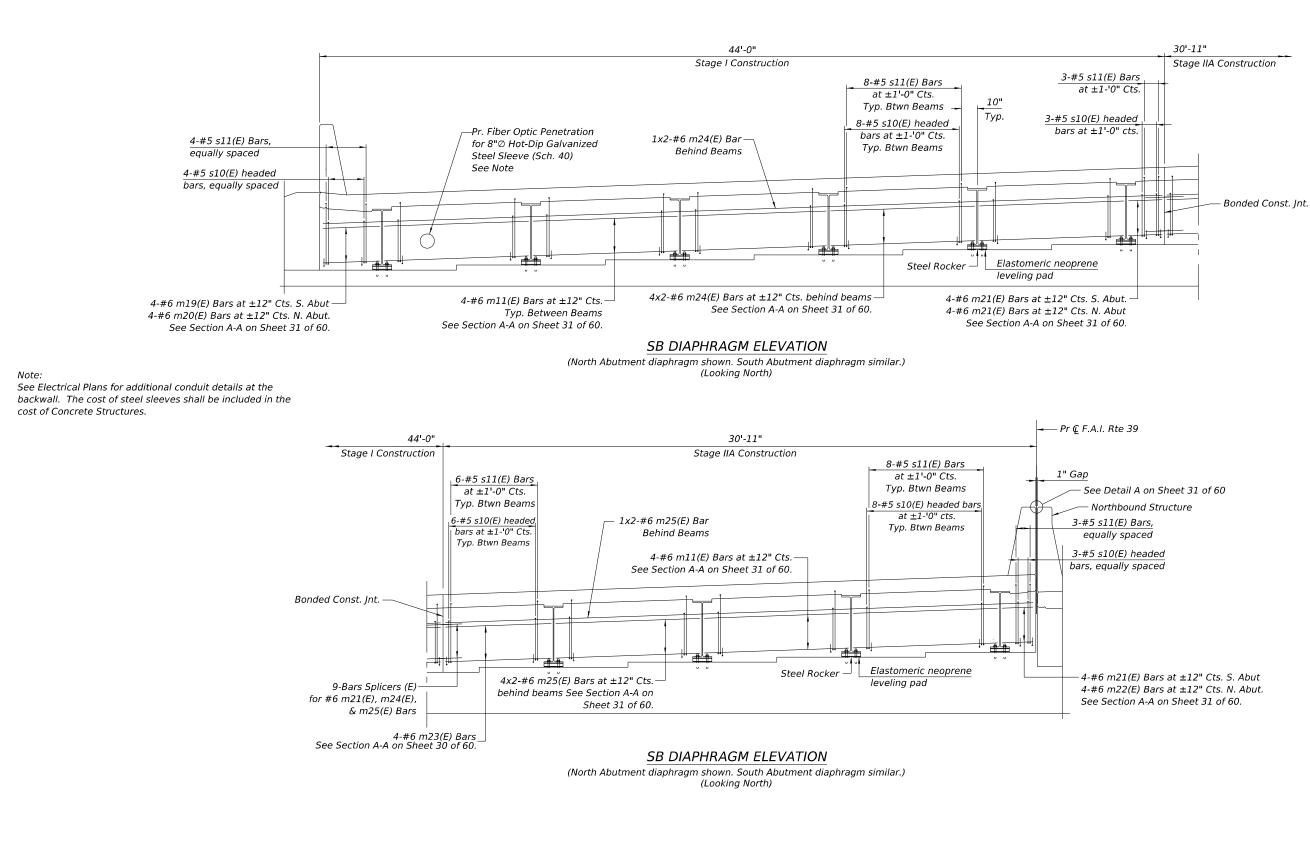
SHEET 26 OF 60 SHEETS STA.



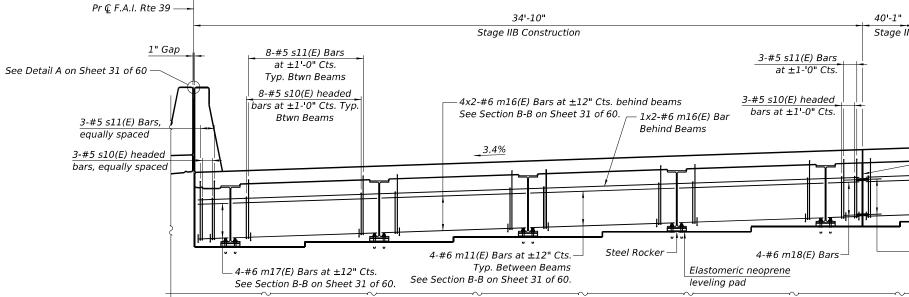
;; bv												
풍필		USER NAME = jworthington	DESIGNED - JW	REVISED -		DECK SLAB DETAILS - NORTHBOUND PARAPETS			A.I RTE	SECTION	COUNTY TOTAL SHEETS	SHEET
AAN NAN	Rolandon 10 & LaSalle Street, Suite 2110 Chicago, Illinois 60603		DRAWN - DSO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		STRUCTURE NO. 101-0208/0209			(201-3)R & (4-1,5)R	WINNEBAGO 1685	570
E B	BOVVIIICIII 312-614-0360 www.bowman.com	PLOT SCALE = \$SCALE\$	CHECKED - AJN	REVISED -						CONTRACT NO. 640		C24
žĒ		PLOT DATE = 2/9/2025	DATE - 02/27/24	REVISED -			SHEET 27 OF 60 SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		
	* FAI ROUTE 39 (I-39) & FAP 301 (US 20) •											



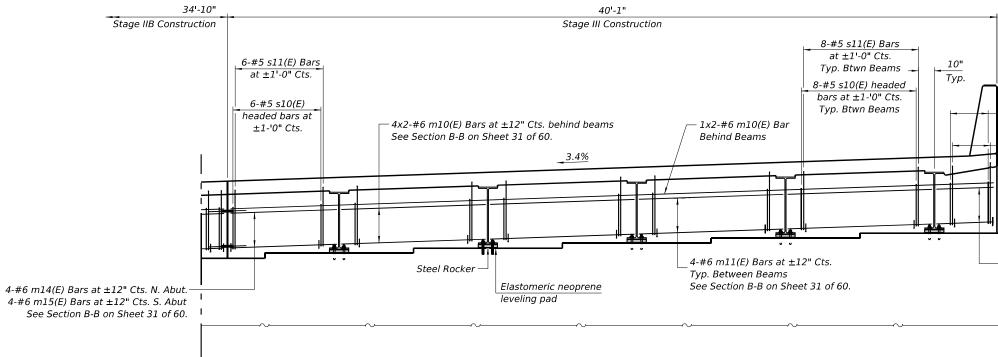
비하								F.A.I			
MODEL: SHI FILE NAME:		USER NAME = Ifranceschina	DESIGNED - DSO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DECK SLAB DETAILS - PARAPET LIGHT POLE			SECTION	COUNTY   TOTAL SHEET SHEETS NO	
	Bowman 10 % LaSalle Street, Suite 211 Chicago, Illinois 60603 312-614-0360		DRAWN - DSO	REVISED -				*	(201-3)R & (4-1,5)R	WINNEBAGO 1685 571	
	DOVAL ICII 312-614-0360 www.bowman.com	PLOT SCALE = \$SCALE\$	CHECKED - AJN	REVISED -		STRUCTURE NO, 101-0208/0209				CONTRACT NO. 64C24	
		PLOT DATE = 8/12/2024	DATE - 05/23/2024	REVISED -		SCALE:	SHEET 28 OF 60 SHEETS STA. TO STA.		ILLINOIS FED. A	ID PROJECT	
						* FAI ROUTE 39 (I-39) & FAP 301 (US 20)					



ET S:\pwv									
E SHE		USER NAME = Ifranceschina	DESIGNED - JW	REVISED -			CONCRETE END DIAPHRAGM - SOUTHBOUND	F.A.I SECTION	COUNTY TOTAL SHEET SHEETS NO.
	Rolamon 10 S. LaSalle Street, Suite 2110 Chicago, Illinois 60603		DRAWN - DSO	REVISED -	STATE OF ILLINOIS			* (201-3)R & (4-1,5)R	WINNEBAGO 1685 572
	BUYYYIIIAI 312-614-0360 www.bowman.com	PLOT SCALE = \$SCALE\$	CHECKED - AJN	REVISED -	DEPARTMENT OF TRANSPORTATION		STRUCTURE NO. 101-0208/0209		CONTRACT NO. 64C24
		PLOT DATE = 8/12/2024	DATE - 02/27/24	REVISED -		SCALE:	SHEET 29 OF 60 SHEETS STA. TO STA.	ILLINOIS FED.	AID PROJECT
		* FAI ROUTE 39 (I-39) & FAP 301 (US 20)							



NB DIAPHRAGM ELEVATION (North Abutment diaphragm shown. South Abutment diaphragm similar.) (Looking North)



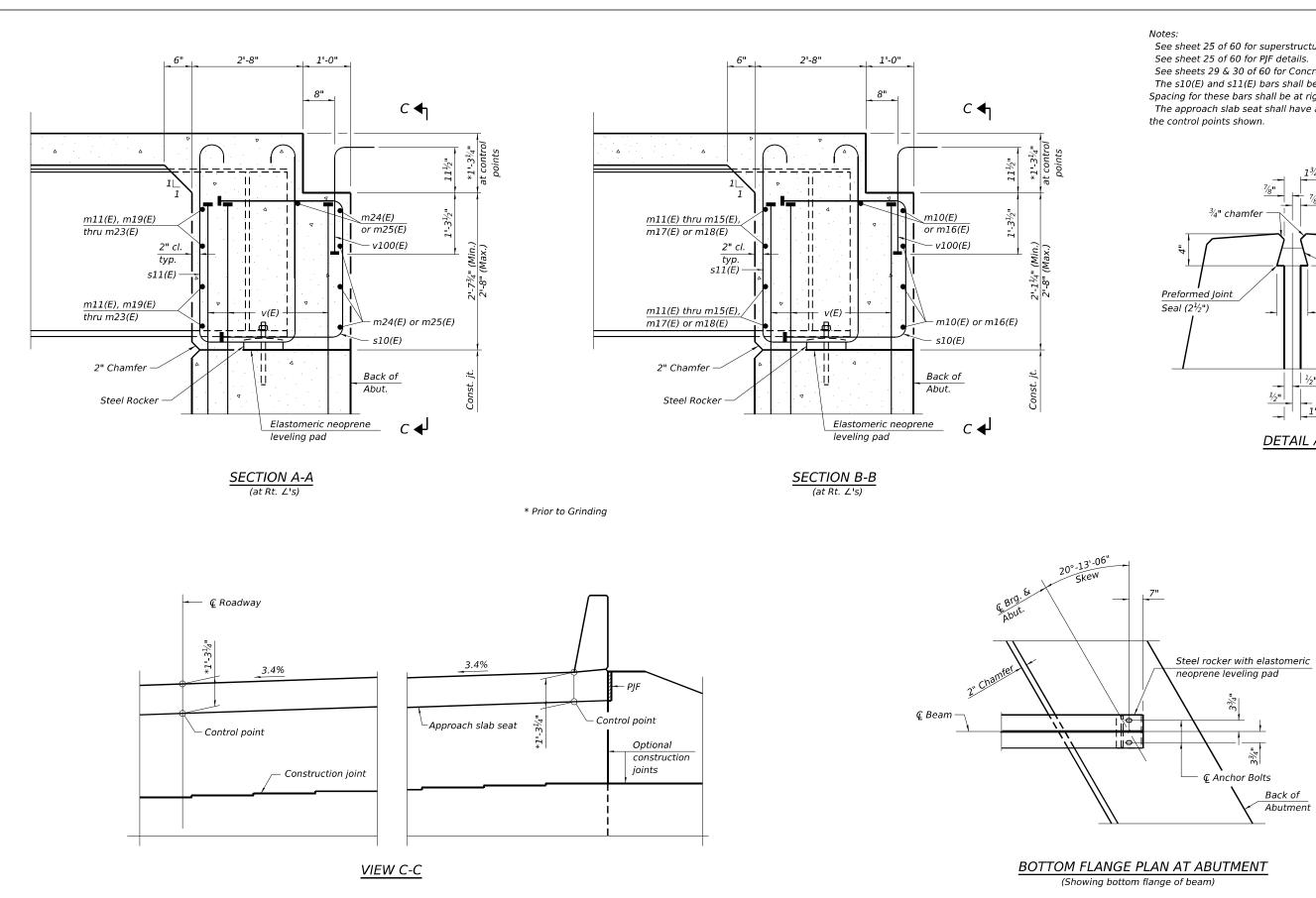
NB DIAPHRAGM ELEVATION

(North Abutment diaphragm shown. South Abutment diaphragm similar.) (Looking North)

R E	USER NAME = Ifranceschina	DESIGNED - JW	REVISED -			CONCRETE END DIAPHRAGM - NORTHBOUND	F.A.I SECTION	COUNTY TOTAL SHEET
Bowman <sup>10</sup> S. Lasalle Street, Suite 2110 Chicago, Illinois 60603 312-67-0360		DRAWN - DSO	REVISED -	STATE OF ILLINOIS			* (201-3)R & (4-1,5)R	WINNEBAGO 1685 573
	PLOT SCALE = \$SCALE\$	CHECKED - AJN	REVISED -	DEPARTMENT OF TRANSPORTATION		STRUCTURE NO, 101-0208/0209		CONTRACT NO. 64C24
Σ.	PLOT DATE = 8/12/2024	DATE - 02/27/24	REVISED -		SCALE:	SHEET 30 OF 60 SHEETS STA. TO STA.	ILLINOIS FED	AID PROJECT
						* FAI ROUTE 39 (I-39) & FAP 301 (I	(US 20) •	•

#### Stage III Construction

Bonded Const.	Jnt.			
7				
7				
9-Bars Splicers ( for #6 m10(E), r	E) ~14(E)			
1 for #6 m10(E), r 1 & m15(E) Bars	1114(E),			
Ι				
3-#5 s10(E) head bars, equally space	led			
3-#5 s1	11(E) Bars,			
equa	lly spaced			
<b>†</b>				
4 #6 m1	2(E) Bars at ±12" Cts	N Abut		
4-#6 m1	3(E) Bars at ±12" Cts ion B-B on Sheet 31 c	s. S. Abut		
	F.A.I RTE	SECTION	COUNTY	TOTAL SHEET

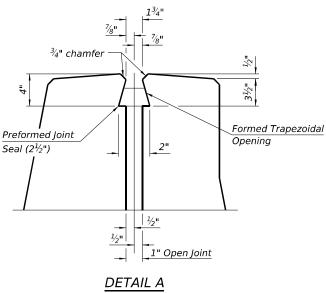


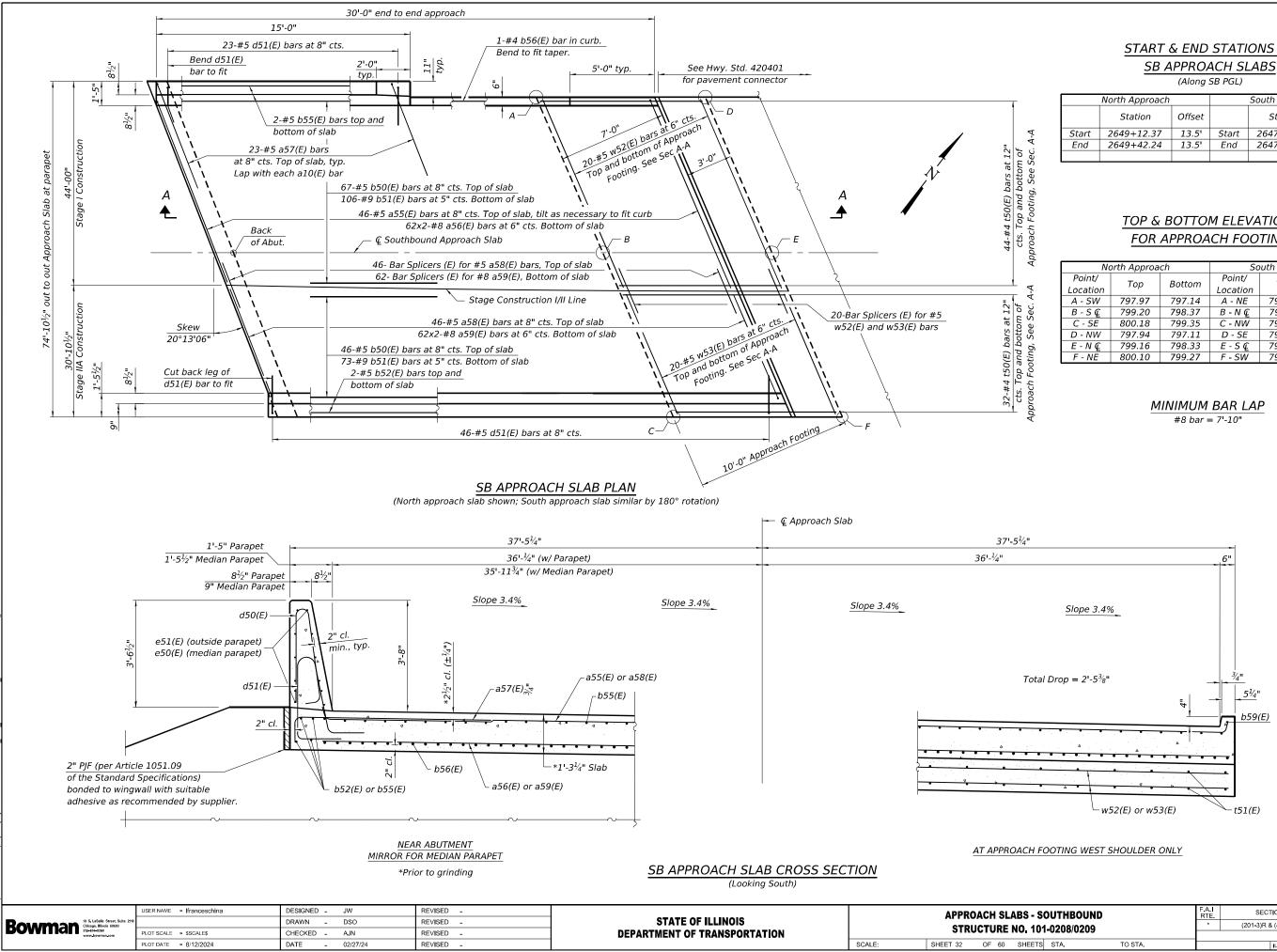
H 5											
ж		USER NAME = Ifranceschina	DESIGNED - JW	REVISED -			CONCRETE END DIAPHRAGM - DETAILS	F.A.I RTE	SECTION	COUNTY TOTAL SH	HEET
∷≩ R∕	Dowman 10 & LaSalle Street, Suite 211 Chicago, Illinois 60603 312-514-0360		DRAWN - DSO	REVISED -	STATE OF ILLINOIS		STRUCTURE NO. 101-0208/0209	*	(201-3)R & (4-1,5)R	WINNEBAGO 1685 5	574
	STATE COLL 312-614-0360	PLOT SCALE = \$SCALE\$	CHECKED – AJN	REVISED -	DEPARTMENT OF TRANSPORTATION		51 KUCTUKE NU, 101-0208/0209			CONTRACT NO. 64C24	24
ŚŒ		PLOT DATE = 8/12/2024	DATE - 02/27/24	REVISED -		SCALE:	SHEET 31 OF 60 SHEETS STA. TO STA.		ILLINOIS FED. A	AID PROJECT	
							* FAI ROUTE 39 (I-39) & FAP 301	(US 20)			

See sheet 25 of 60 for superstructure details and Bill of Material.

See sheets 29 & 30 of 60 for Concrete End Diaphragm elevations. 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





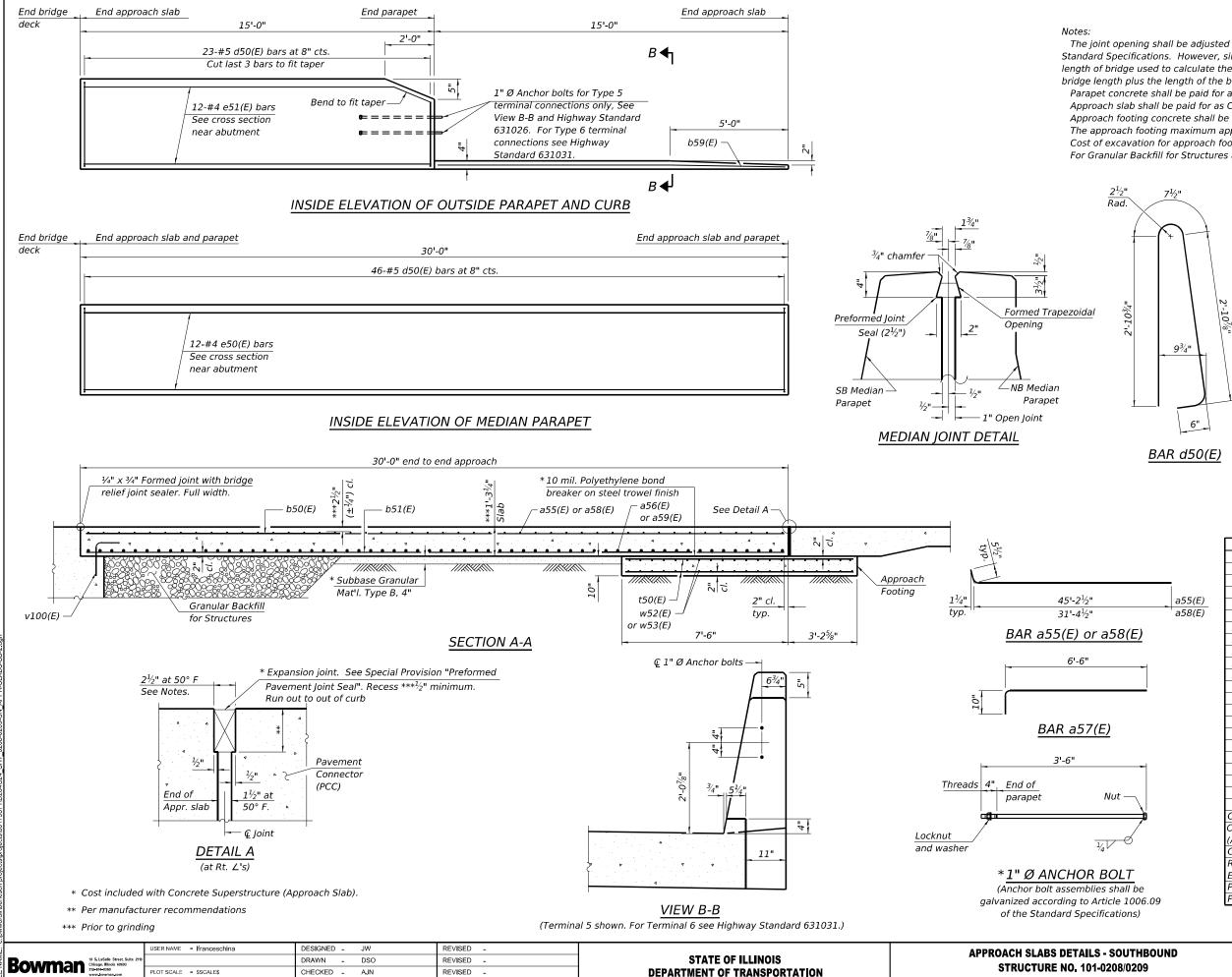
# START & END STATIONS OF

	North Approach	-	South Approach				
	Station	Offset		Station	Offset		
Start	2649+12.37	13.5'	Start	2647+31.59	13.5'		
End	2649+42.24	13.5'	End	2647+01.32	13.5'		

### TOP & BOTTOM ELEVATIONS FOR APPROACH FOOTING

No	orth Approa	ch	South Approach				
Point/ Location	Тор	Bottom	Point/ Location	Тор	Bottom		
A - SW	797.97	797.14	A - NE	797.59	796.76		
B - S 🧲	799.20	798.37	B - N 🧲	798.91	798.08		
C - SE	800.18	799.35	C - NW	799.93	799.10		
D - NW	797.94	797.11	D - SE	799.94	799.11		
E - N 🧲	799.16	798.33	E - S 🧲	798.86	798.03		
F - NE	800.10	799.27	F - SW	797.54	796.71		

SOUTHBOUND			F.A.I RTE				COUNTY	TOTAL SHEETS	SHEET NO.
101	-0208/0	209	*	(201-3)R 8	k (4 <b>-</b> 1,5)R		WINNEBAGO	1685	575
	-0200/0	203					CONTRACT	NO. 640	C24
TS	STA.	TO STA.			ILLINOIS	FED. AI	D PROJECT		
		* FAI ROUTE 39 (I-39) & FAP	301 (US 20 <del>)</del>	•					



LOT DATE = 8/12/2024

DATE

- 02/27/24

REVISED

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

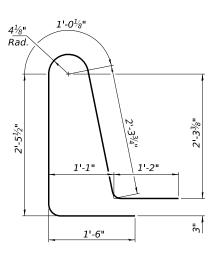
Parapet concrete shall be paid for as Concrete Superstructure.

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

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

Cost of excavation for approach footing included with Concrete Structures.

For Granular Backfill for Structures and drainage treatment details, see sheet 3 of 60.



BAR d51(E)

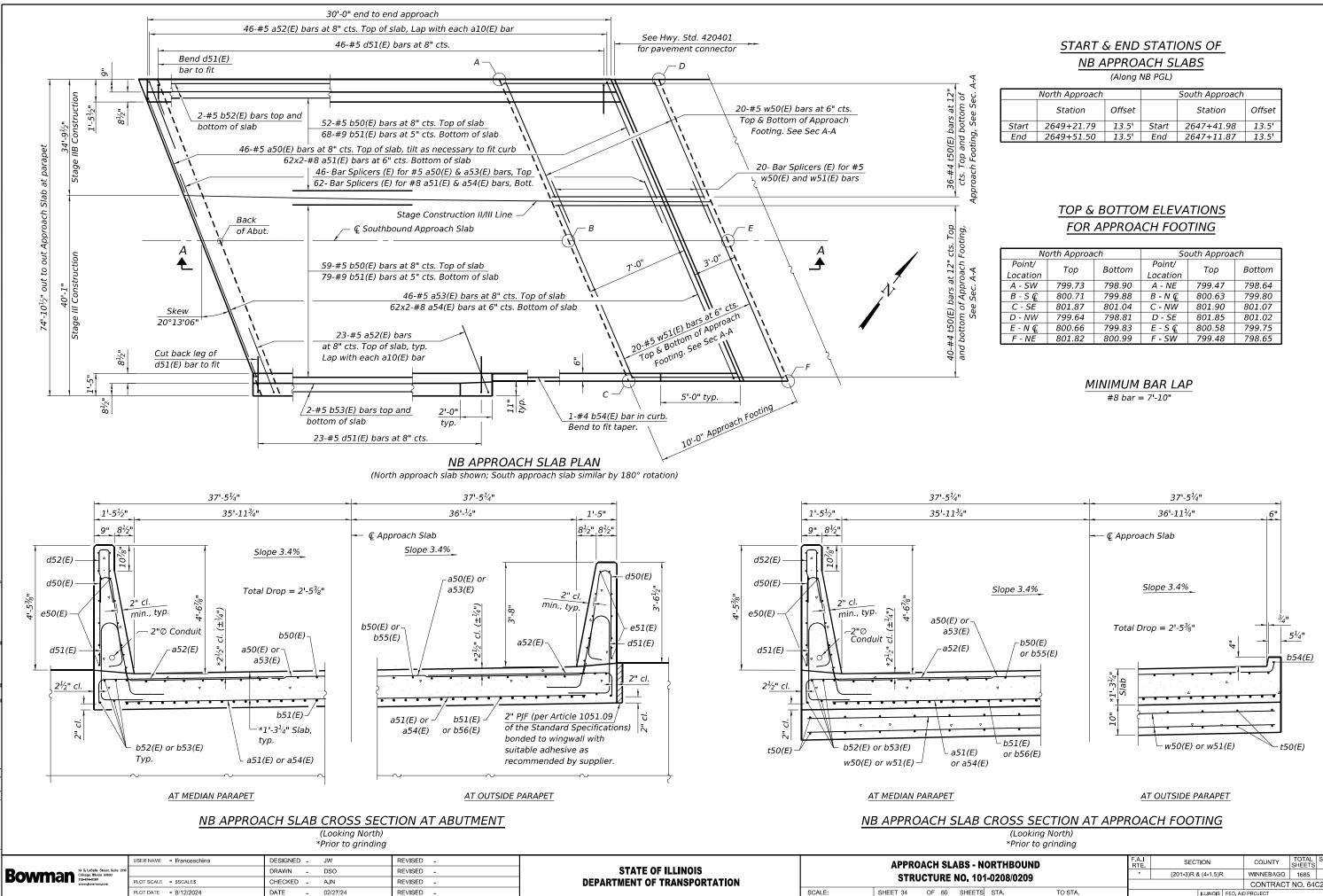
### SOUTHBOUND **TWO APPROACHES BILL OF MATERIAL**

		Bar	No.	Size	Length	Shape
		a55(E)	92	#5	45'-8"	
		a56(E)	248	#8	26'-7"	
		a57(E)	138	#5	7'-4"	
		a58(E)	92	#5	31'-10"	
~	a55(E)	a59(E)	248	#8	19'-7"	
	a58(E)					
		b50(E)	222	#5	29'-8"	
		b51(E)	294	#9	29'-8"	
		b52(E)	8	#5	29'-8"	
		b55(E)	8	#5	14'-7"	
		b56(E)	2	#4	14'-4"	
		d50(E)	138	#5	6'-5"	Ŋ
		d51(E)	138	#5	8'-6"	⊾
		e50(E)	56	#4	29'-8"	
		e51(E)	56	#4	14'-7"	
		t50(E)	152	#4	10'-2"	
		w52(E)	40	#5	45'-4"	
		w53(E)	40	#5	32'-3"	
		Concrete S			Cu. Yd.	13.4
		Concrete S		ture	Cu. Yd.	205.6
		(Approach	,			
		Concrete S			Cu. Yd.	48.4
		Reinforcer		,	Pound	84,050
		Ероху Соа				
		Protective			Sq. Yd.	499
.09		Preformed	Joint Sea	2 1/2"	Foot	30

ILS	ILS - SOUTHBOUND			SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.
٥1	01-0208/0209			(201-3)R 8	(201-3)R & (4-1,5)R			1685	576
	-0200/0	205					CONTRACT	NO. 640	C24
тs	STA.	TO STA.			ILLINOIS	FED, All	D PROJECT		
	* FAI ROUTE 39 (I-39) & FAP 301 (US 20) • •								

SCALE:

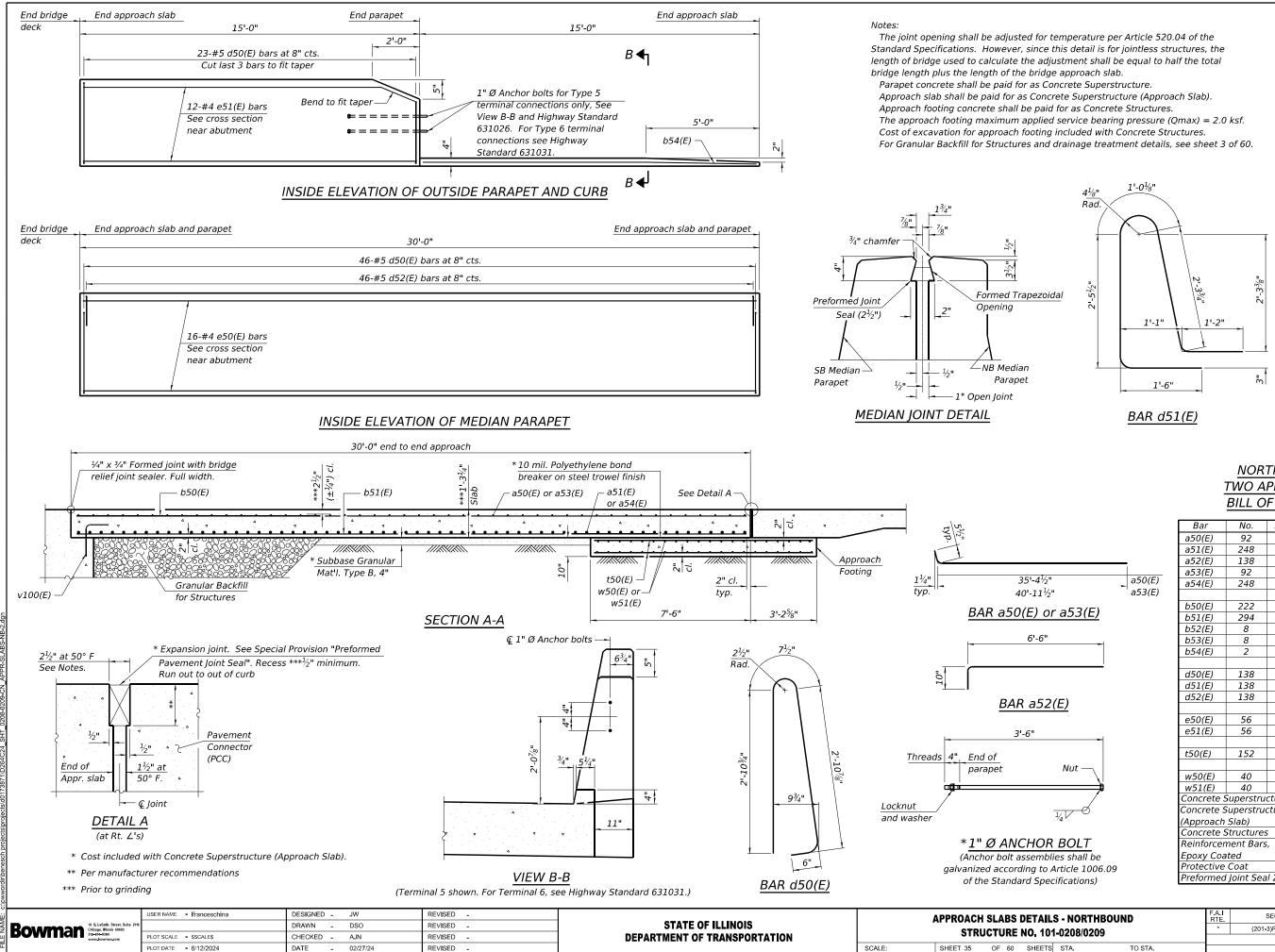
SHEET 33 OF 60 SHEET

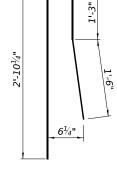


	North Approach		South Approach				
Station Offset			Station Offset				
Start	2649+21.79	13.5'	Start	2647+41.98	13.5'		
End	2649+51.50	13.5'	End	2647+11.87	13.5'		

No	orth Approa	ch	South Approach				
Point/ Location	Тор	Bottom	Point/ Location	Тор	Bottom		
A - SW	799.73	798.90	A - NE	799.47	798.64		
B - S 🧲	800.71	799.88	B - N 🧲	800.63	799.80		
C - SE	801.87	801.04	C - NW	801.90	801.07		
D - NW	799.64	798.81	D - SE	801.85	801.02		
E - N 🗲	800.66	799.83	E - S 🧲	800.58	799.75		
F - NE	801.82	800.99	F - SW	799.48	798.65		

NC	NORTHBOUND			SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
<b>01</b>	01-0208/0209			* (201-3)R & (4-1,5)R			WINNEBAGO	1685	577
	-0200/0	205					CONTRACT	NO. 640	224
тs	STA.	TO STA.			ILLINOIS	FED, All	D PROJECT		
		* FAI ROUTE 39 (I-39) & FAP 3	01 (US 20)	•					





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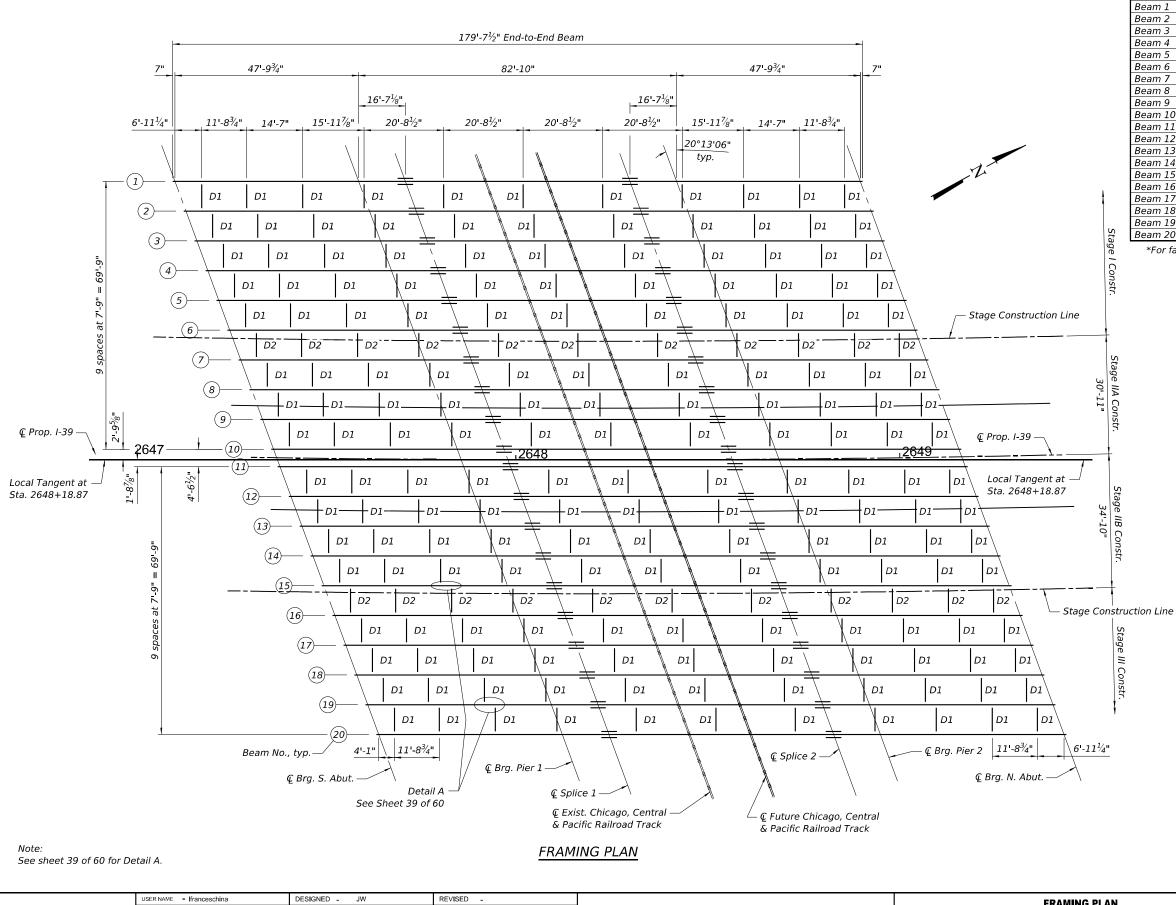
Rad.

BAR d52(E)

### NORTHBOUND TWO APPROACHES BILL OF MATERIAL

	Bar	No.	Size	Length	Shape
	a50(E)	92	#5	35'-11"	
	a51(E)	248	#8	21'-8"	
_	a52(E)	138	#5	7'-4"	
	a53(E)	92	#5	41'-0"	
a50(E)	a54(E)	248	#8	24'-8"	
a53(E)					
	b50(E)	222	#5	29'-8"	
	b51(E)	294	#9	29'-8"	
	b52(E)	8	#5	29'-8"	
	b53(E)	8	#5	15'-3"	
	b54(E)	2	#4	13'-8"	
	d50(E)	138	#5	6'-5"	Ŋ
	d51(E)	138	#5	8'-6"	
	d52(E)	138	#5	6'-2"	
	e50(E)	56	#4	29'-8"	
	e51(E)	56	#4	15'-2"	
	t50(E)	152	#4	10'-2"	
	w50(E)	40	#5	36'-5"	
	w51(E)	40	#5	41'-1"	
	Concrete S			Cu. Yd.	14.9
	Concrete S		cture	Cu. Yd.	205.3
	(Approach				
	Concrete S			Cu. Yd.	48.4
		Reinforcement Bars,			85.010
		Epoxy Coated			
		Protective Coat Preformed Joint Seal 2 1/2			499
	Preformed	Joint Sea	2 1/2"	Foot	30

			F.A.I					TOTAL	SHEET	
ILS	ILS - NORTHBOUND 01-0208/0209			SEC	ION		COUNTY	SHEETS	NO.	
٥1				(201-3)R 8	k (4 <b>-</b> 1,5)R	1	WINNEBAGO	1685	578	
							CONTRACT	NO. 640	C24	
тs	STA.	TO STA.			ILLINOIS	FED, All	D PROJECT			
	* FAI ROUTE 39 (I-39) & FAP 301 (US 20) • •									



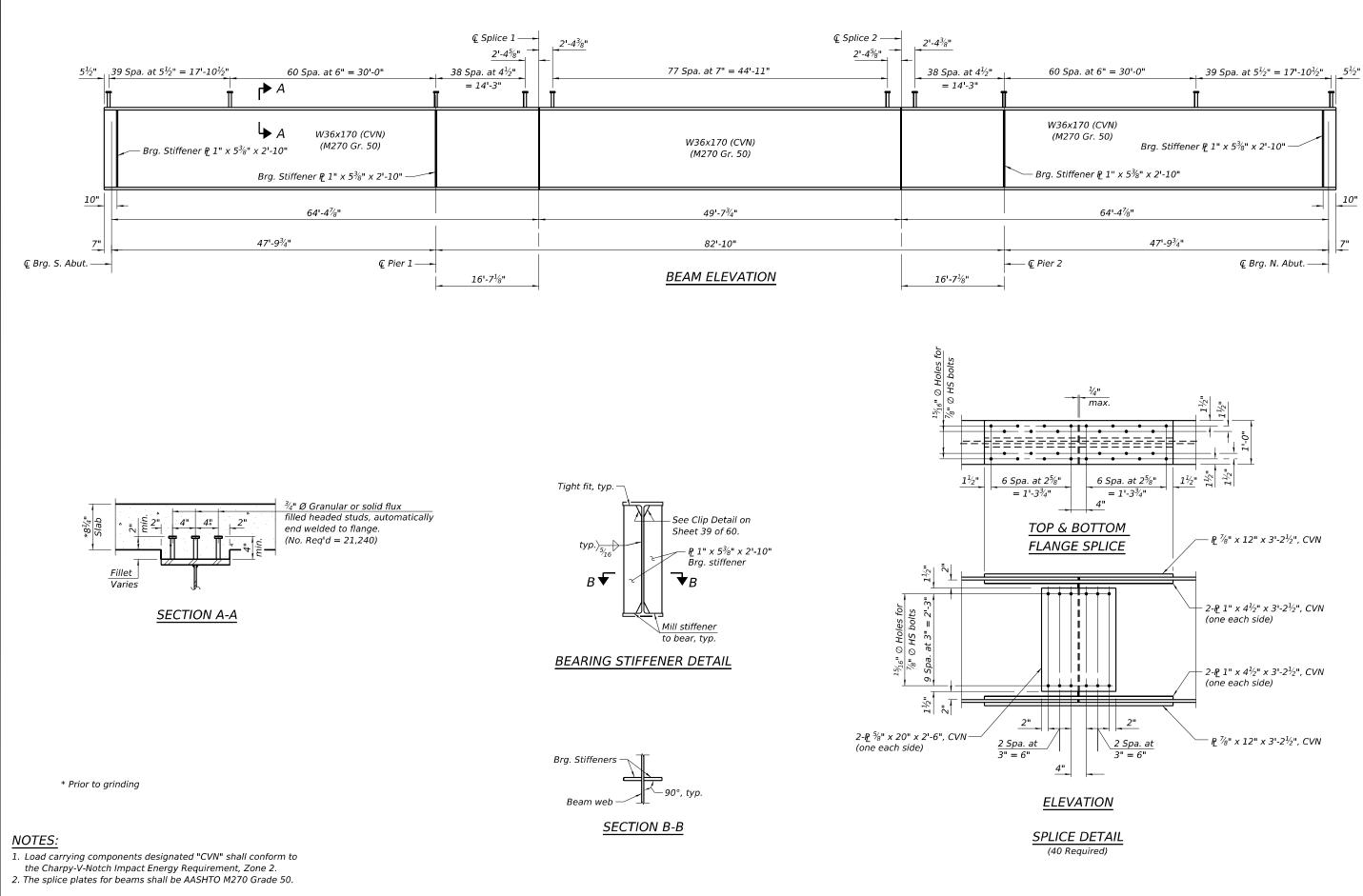
FRAMING F **STATE OF ILLINOIS** DRAWN - AT REVISED -Bowman 10 & LaSalle Street Chicago, Illinois 606 312-614-0360 STRUCTURE NO. 10 OT SCALE = \$SCALE\$ CHECKED - AJN REVISED -**DEPARTMENT OF TRANSPORTATION** SCALE: SHEET 36 OF 60 SHEET REVISED -LOT DATE = 8/12/2024 DATE

### \* TOP OF BEAM ELEVATIONS

Location	€ Brg.	€ Brg.	¢ Splice 1	€ Splice 2	€ Brg.	€ Brg.
Location	S. Abut.	Pier 1	Le spiice r	Le Sprice z	Pier 2	N. Abut.
Beam 1	798.28	798.44	798.42	798.52	798.60	798.59
Beam 2	798.55	798.72	798.69	798.79	798.87	798.85
Beam 3	798.82	798.99	798.96	799.05	799.13	799.11
Beam 4	799.10	799.26	799.23	799.32	799.40	799.37
Beam 5	799.37	799.53	799.50	799.59	799.66	799.63
Beam 6	799.65	799.80	799.77	799.85	799.92	799.89
Beam 7	799.92	800.08	800.04	800.11	800.19	800.14
Beam 8	800.19	800.35	800.31	800.38	800.45	800.40
Beam 9	800.47	800.62	800.58	800.64	800.71	800.66
Beam 10	800.74	800.89	800.85	800.91	800.98	800.92
Beam 11	799.98	800.13	800.09	800.14	800.21	800.15
Beam 12	800.26	800.40	800.36	800.41	800.47	800.41
Beam 13	800.53	800.67	800.63	800.67	800.74	800.67
Beam 14	800.81	800.94	800.90	800.93	801.00	800.93
Beam 15	801.08	801.21	801.17	801.20	801.26	801.18
Beam 16	801.35	801.48	801.43	801.46	801.52	801.44
Beam 17	801.63	801.75	801.70	801.72	801.78	801.70
Beam 18	801.90	802.02	801.97	801.98	802.04	801.95
Beam 19	802.17	802.28	802.24	802.25	802.30	802.21
Beam 20	802.45	802.55	802.50	802.51	802.56	802.47

\*For fabrication only

PLAN			F.A.I RTE	SEC	FION		COUNTY	TOTAL SHEETS	SHEET NO.	
01	-0208/0	200	*	(201-3)R 8	k (4 <b>-</b> 1,5)R		WINNEBAGO 1685 5			
	-0200/0	205	_				CONTRACT NO. 64C24			
TS	STA.	TO STA.			ILLINOIS	FED, All	D PROJECT			
		* EALDOUTE 30 (L30) & EAD 30	(110.00)							



о Ш	USER NAME = Ifranceschina	DESIGNED - JW	REVISED -			STRUCTURAL STEEL	F.A.I SECTION	COUNTY TOTAL SHEET
Bowman <sup>10 S. LaSelle</sup> Street, Suite 2110 Chicago, Illinois 60603		DRAWN - AT	REVISED -	STATE OF ILLINOIS		STRUCTURE NO, 101-0208/0209	* (201-3)R & (4-1,5)R	WINNEBAGO 1685 580
	PLOT SCALE = \$SCALE\$	CHECKED - AJN	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRACT NO. 64C24
: Щ	PLOT DATE = 8/12/2024	DATE - 02/27/24	REVISED -		SCALE:	SHEET 37 OF 60 SHEETS STA. TO STA.	ILLINOIS FED	AID PROJECT

MODEL: SHEET FILE NAME: c:\pv

		<u>OR BEAM MOMENT T.</u> 0.4 Sp. 1 or		
		0.6 Sp. 3	Pier 1 or 2	0.5 Span 2
ls	(in⁴)	10,500	10,500	10,500
Ic (n)	(in⁴)	30,304	-	30,304
Ic (3n)	(in⁴)	22,186	-	22,186
I <sub>c</sub> (Cr)	(in⁴)	-	14,420	-
Ss	(in³)	581	581	581
Sc (n)	(in³)	889	-	889
Sc (3n)	(in³)	803	-	803
Sc (Cr)	(in³)	-	678	-
DC1	(k/')	0.996	0.996	0.996
M <sub>DC1</sub>	('k)	79	485	369
DC2	(k/')	0.123	0.123	0.123
M DC2	('k)	5	30	22
DW	(k/')	0.36	0.36	0.36
Mow	('k)	30	191	142
LLDF		0.702	0.702	0.637
M4 + 1M	('k)	558	684	735
fi (Strength I)	(ksi)	0	0	0
$M_u + \frac{1}{3} f_l S_x$	('k)	1,126	2,128	1,988
$\Phi_f M_n$	('k)	4,773	2,499	4,466
fs DC1	(ksi)	1.60	10.00	7.60
fs DC2	(ksi)	0.07	0.37	0.33
fs DW	(ksi)	0.45	2.37	2.12
fs (4+1M)	(ksi)	15.2	26.4	26.8
ft (Service II)	(ksi)	0.0	0.0	0.0
$f_s + \frac{f_l}{2}$ (Service II)	(ksi)	21.9	47.1	44.9
Service II Resistance	(ksi)	47.5	47.5	47.5
$f_s + \frac{f_l}{3}$ (Strength I)	(ksi)	29.4	62.8	60.1
$\Phi_f F_n$	(ksi)	-	-	-
Vf	(k)	51.52	49.52	47.59

Vf:	Maximum f	actored	shear	range	in s	span	computed	accordi	ng
	to Article 6	10.10							

- to Article 6.10.10. OCF: Obtuse Correction Factor according to Article 4.6.2.2.3c or as further simplified by IDOT provisions.
- *R*<sub>DC1</sub>: Un-factored reaction due to non-composite dead load (kip).
- R<sub>DC2</sub>: Un-factored reaction due to long-term composite (superimposed excluding future wearing surface) dead load (kip). R<sub>DW</sub>: Un-factored reaction due to long-term composite (superimposed
- future wearing surface only) dead load (kip).

 $1.25 (R_{DC1} + R_{DC2}) + 1.5R_{DW} + 1.75 (R_{\pm} + R_{IM})$ 

R 1 : Un-factored live load reaction (kip).

*R<sub>IM</sub>* : Un-factored dynamic load allowance (impact) (kip).

R<sub>Total</sub>(Strength I)(Impact): Strength I load combination of factored design reactions (kip).

 $R_{Total}(Strength I)(No Impact): Strength I load combination of factored design reactions, not including dynamic load allowance (Impact) (kip).$ 1.25 (R<sub>DC1</sub> + R<sub>DC2</sub>) + 1.5R<sub>DW</sub> + 1.75 (R<sup>1</sup>).

Note:

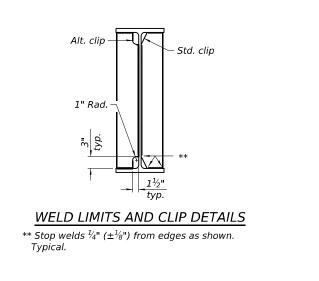
M<sup>®</sup> and R<sup>®</sup> include the effects of centrifugal force and superelevation.

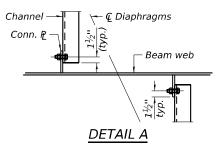
BEAM REAC	TION T.	ABLE	
		S. Abut. or	Pier 1 or 2
		N. Abut.	FIEI 1 01 2
LLDF		0.8550	0.8550
OCF		-	-
RDC1	(k)	14.63	75.22
R <sub>DC2</sub>	(k)	0.83	4.61
Row	(k)	5.28	29.34
RŁ	(k)	59.73	103.19
R Im	(k)	15.69	19.95
R <sub>Total</sub> (Strength I)(Impact)	(k)	159.23	359.29
R <sub>Total</sub> (Strength I)(No Impact)	(k)	131.77	324.38

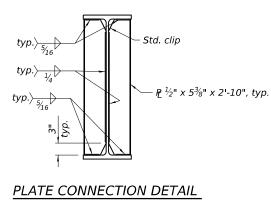
ш		USER NAME = Ifranceschina	DESIGNED - JW	REVISED -			STDI	JCTURA		
NAM	Bowman 10 S. LaSalle Street, Suite 2110 Chisago, Illinois 60603		DRAWN - AT	REVISED -	STATE OF ILLINOIS	1				
Ē	DUVVIIICIII 312-514-0350 www.bowman.com		CHECKED - AJN	REVISED -	DEPARTMENT OF TRANSPORTATION	L	5180	CTURE	NO. 10	1-02
ш		PLOT DATE = 8/12/2024	DATE - 02/27/24	REVISED -		SCALE:	SHEET 38	OF 60	SHEETS	3 ST

Is , <b>S</b> s :	Non-composite moment of inertia and section modulus of the
	steel section used for computing f $_{\rm S}$ (Total-Strength I, and
	Service II) due to non-composite dead loads (in. <sup>4</sup> and in. <sup>3</sup> ).
Ic (n), Sc (n):	Composite moment of inertia and section modulus of the steel
	and deck based upon the modular ratio, "n", used for computing
	fs (Total-Strength I, and Service II) in uncracked sections due
	to short-term composite live loads (in. <sup>4</sup> and in. <sup>3</sup> ).
Ic (3n), Sc (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. <sup>4</sup> and in. <sup>3</sup> ).
<i>l</i> c (cr), Sc (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. <sup>4</sup> and in. <sup>3</sup> ).
Sx:	Section modulus about the major axis of a section to the
5.	controlling flange, tension or compression, taken as yield moment
	with respect to the controlling flange over the yield strength
2.01	of the controlling flange (in. <sup>3</sup> ).
DC1:	Un-factored non-composite dead load (kips/ft.).
M <sub>DC1</sub> :	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 <sub>DC2</sub> :	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.).
Mow:	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
LLDF.	
	according to Article 4.6.2.2 and further IDOT provisions.
М∉ + <i>ім∶</i>	Un-factored live load moment plus dynamic load allowance (impact)
	(kip-ft.).
Mu :	Strength I load combination of factored design moments (kip-ft.).
	1.25 (M <sub>DC1</sub> + M <sub>DC2</sub> ) + 1.5 M <sub>DW</sub> + 1.75 M ½ + IM
fı:	Factored calculated flange lateral bending stress as calculated
	using Article 6.10.1.6 and as further simplified by IDOT
	provisions (ksi).
$\Phi_f M_n$ :	Factored nominal flexural resistance of the section determined
	as specified in Article 6.10.7.1 or A6 as applicable (kip-ft.).
fs DC1:	Un-factored stress at edge of flange for controlling steel
is Der.	flange due to vertical non-composite dead loads as calculated
	below (ksi).
( 563	$M_{DC1}/S_s$
fs 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.
fs 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.
fs (4+ IM):	Un-factored stress at edge of flange for controlling steel
13 ( 2 1 1 1 1 ) 1	flange due to vertical composite live load plus impact loads as
	calculated below (ksi).
	$M_{4 + IM}/S_c(n)$ or $M_{4 + IM}/S_c(cr)$ as applicable.
f + f / 2 /Comvise II);	
$f_s + f_l / 2$ (Service II):	Sum of stresses as computed below (ksi).
	$f_s DC1 + f_s DC2 + f_s DW + 1.3 f_s (\frac{1}{2} + IM) + f_{\ell}/2$
Service II Resistance:	Composite $(0.95R_hF_{yf})$ or noncomposite $(0.80R_hF_{yf})$ stress capacity
	according to Article 6.10.4.2 (ksi).
$f_{s} + f_{l} / 3$ (Strength I):	Sum of stresses as computed below on non-compact sections (ksi).
	1.25 ( $f_s DC1 + f_s DC2$ ) + 1.5 $f_s DW$ + 1.75 $f_s (\frac{1}{2} + \frac{1}{2}M) + \frac{1}{2}/3$
$\Phi_f F_n$ :	Factored nominal flexural resistance of the section as
	specified in Article 6.10.7.2 or 6.10.8 as applicable (ksi).

E	EL DETAILS			SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.
٥1	01-0208/0209			* (201-3)R & (4-1,5)R WINNE			WINNEBAGO	1685	581
	/1-0200/0209						CONTRACT	NO. 640	C24
тs	S STA. TO STA.				ILLINOIS	FED. AI	D PROJECT		
		* FAI ROUTE 39 (I-39) & FAI	9 301 (US 20)	•					

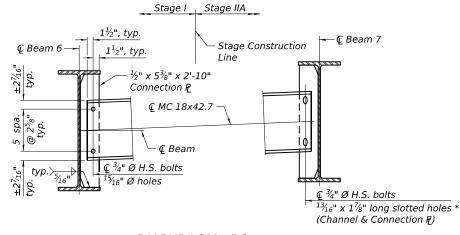






FOR DIAPHRAGMS

\*\* Stop welds  $\frac{1}{4}$ " ( $\pm \frac{1}{8}$ ") from edges as shown. . Typical.



### DIAPHRAGM - D2

(Stage I/IIA Construction Line shown, Stage IIB/III similar)

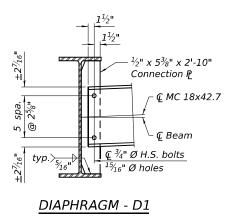
\* Long slotted holes shall be at Beam 7 for Stage I/IIA diaphragms and at Beam 16 for Stage IIB/III diaphragms.

# NOTES:

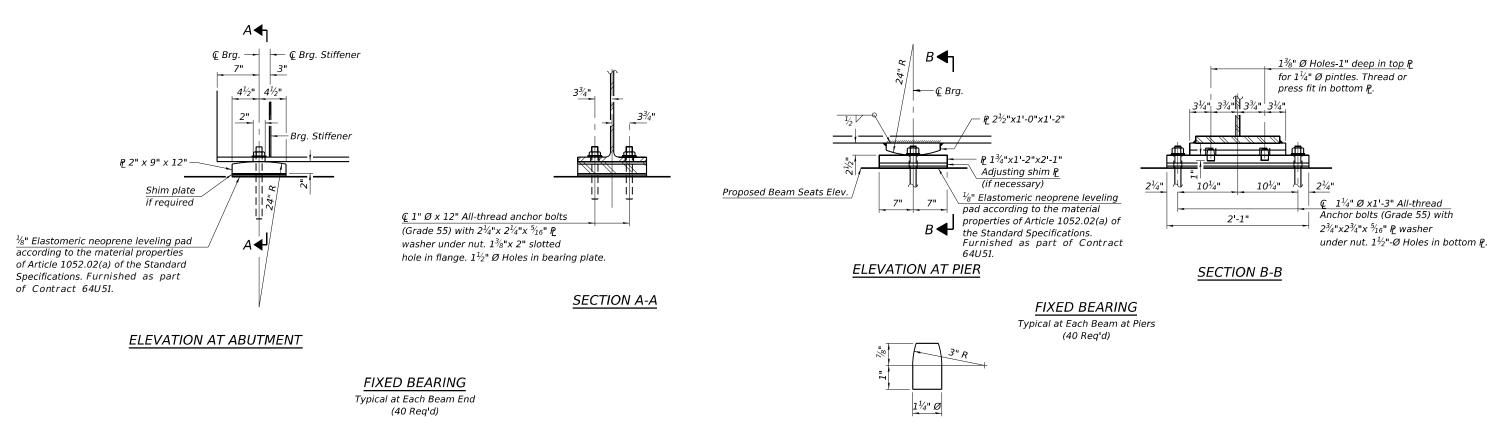
1. All diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual diaphragms at supports may be temporarily disconnected to install bearing anchor bolts.

2. Two hardened washers required for each set of oversized holes.

- 3. 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.
- 4. Bolts in long-slots shall be finger tight until the second stage pour is complete, and position slots so bolts start at one end with no concrete load and finish near the opposite end under deck load, allowing maximum displacement without laterally stressing main members. All holes shall have appropriate hardened or plate washers.



L DIAPHRAGMS			F.A.I RTE	SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.
01	-0208/0	209	*	(201-3)R 8	k (4 <b>-</b> 1,5)R	R WINNEBAGO 1685			582
	-0200/0	205	_			CONTRACT NO. 64C24			C24
TS STA. TO STA.					ILLINOIS	FED. AI	D PROJECT		
			(110,00)						



PINTLE

### NOTES:

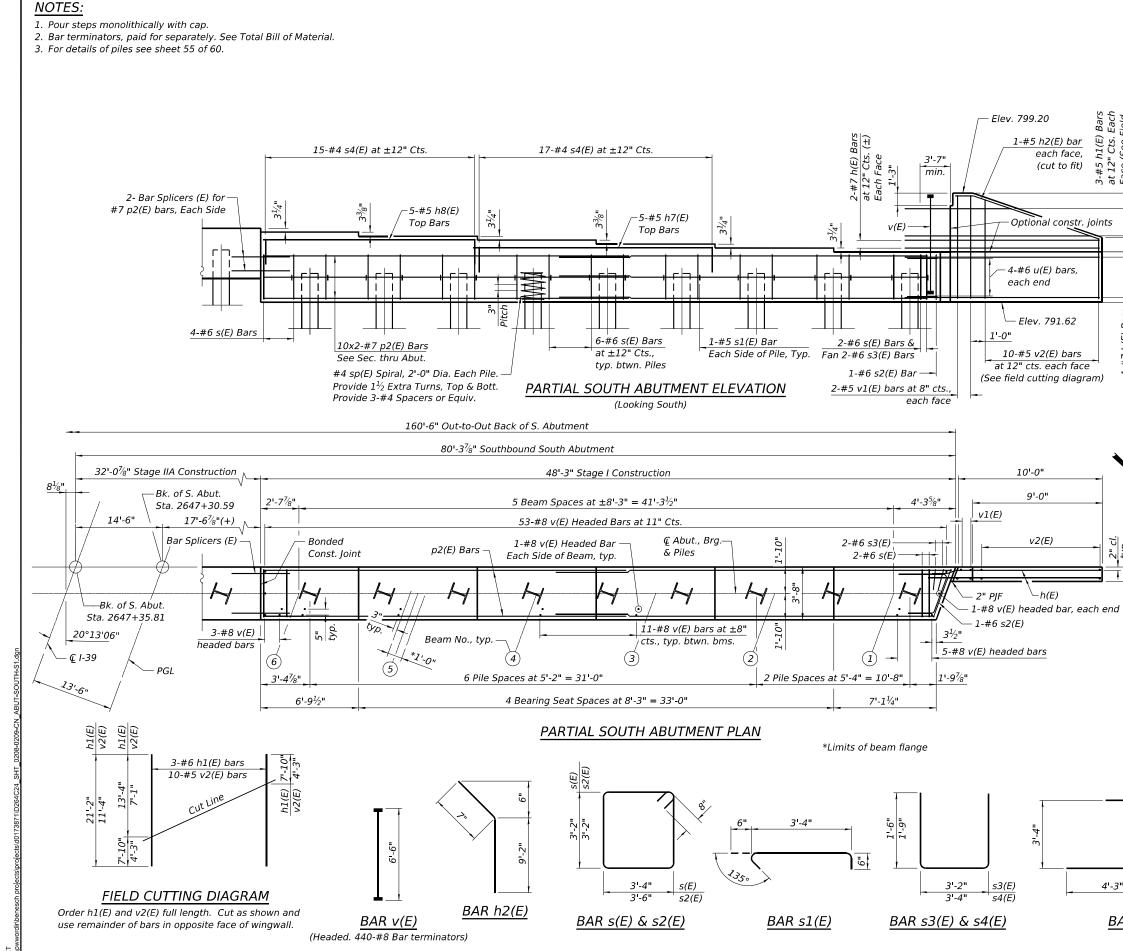
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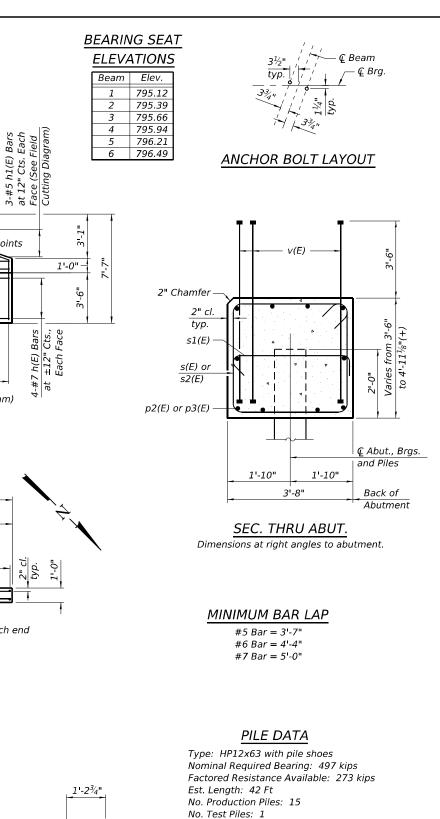
- 1. Anchor bolts at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.
- 2. Two 1/8 in. adjusting shims shall be furnished as part of Contract 64U51 for each bearing in addition to all other plates or shims and placed as shown on bearing details.
- 3. All (embedded and separate) bearing plates, side retainers, and anchor bolts, nuts, washers and pintles shall be galvanized according to AASHTO M111 or M232 as applicable.
- 4. The structural steel plates and pintles of the bearing shall conform to the requirements of AASHTO M270 Grade 50.
- 5. Installation of all bearing plates, shims, leveling pads, and pintles shall be included in the cost of Erecting Structural Steel.

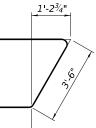
Ψ	USER NAME = Ifranceschina	DESIGNED - JW	REVISED -			BEARING DETAILS	F.A.I RTF	SECTION	COUNTY TOTAL SHEET
Bowman <sup>10</sup> S. LaSalle Street, Suite 2110 Chicago, Illinois 60603 312-614-0360		DRAWN - AT	REVISED -	STATE OF ILLINOIS		STRUCTURE NO. 101-0208/0209	*	(201-3)R & (4-1,5)R	WINNEBAGO 1685 583
U DOVOTIICII 312-614-0360 www.bowman.com	PLOT SCALE = \$SCALE\$	CHECKED - AJN	REVISED -	DEPARTMENT OF TRANSPORTATION		31K0CTURE NO: 101-0200/0209			CONTRACT NO. 64C24
ш	PLOT DATE = 8/12/2024	DATE - 02/27/24	REVISED -		SCALE:	SHEET 40 OF 60 SHEETS STA.	TO STA.	ILLINOIS FED.	AID PROJECT
						* F/	AI ROUTE 39 (I-39) & FAP 301 (US 20)	•	•

### **BILL OF MATERIAL**

Item	Unit	Total
Anchor Bolts, 1"	Each	80
Anchor Bolts, $1\frac{1}{4}$ "	Each	80







BAR u(E)

4'-3"

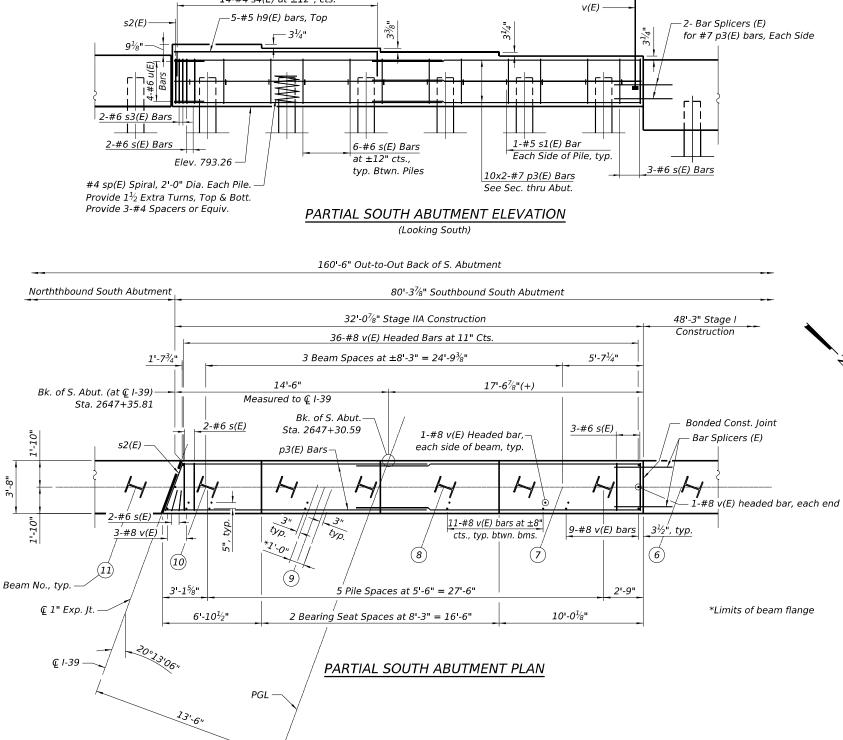
JTHBOUND STAGE 1			F.A.I RTE	SECT	FION		COUNTY	TOTAL SHEETS	SHEET NO.
01-0208/0209		*	* (201-3)R & (4-1,5)R			WINNEBAGO	1685	584	
01-0200/0209			_				CONTRACT	NO. 640	C24
TS	STA.	TO STA.			ILLINOIS	FED, All	D PROJECT		
* EAL DOUTE 30 (1.20) & EAD 304 (10.20)									

1. Pour steps monolithically with cap.

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

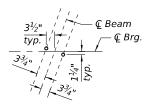
ō

3. For details of piles see sheet 55 of 60.



14-#4 s4(E) at ±12", cts.

E SHE		USER NAME = Ifranceschina	DESIGNED - JW	REVISED -			SOUTH ABUTMENT - SOUTHBOUND STAGE 2A	F.A.I BTE	SECTION	COUNTY TOTAL SHEET	
NAN NAN	Bowman 10 & LaSalle Street, Suite 2110 Chicago, Illinois 60603		DRAWN - AT	REVISED -	STATE OF ILLINOIS			STRUCTURE NO. 101-0208/0209	*	(201-3)R & (4-1,5)R	WINNEBAGO 1685 585
	PLOT SCALE = \$SCALE\$	CHECKED - AJN	REVISED -	DEPARTMENT OF TRANSPORTATION	DEPARTMENT OF TRANSPORTATION				CONTRACT NO 64C24		
≥⊡		PLOT DATE = 8/12/2024	DATE - 02/27/24	REVISED -		SCALE:	SHEET 42 OF 60 SHEETS STA. TO STA.		ILLINOIS FED	AID PROJECT	
	* FAI ROUTE 39 (I-39) & FAP 301 (US 20) •										



ANCHOR BOLT LAYOUT

# BEARING SEAT ELEVATIONS

Beam	Elev.
7	796.76
8	797.03
9	797.31
10	797.58

## SOUTHBOUND SOUTH ABUTMENT BILL OF MATERIAL

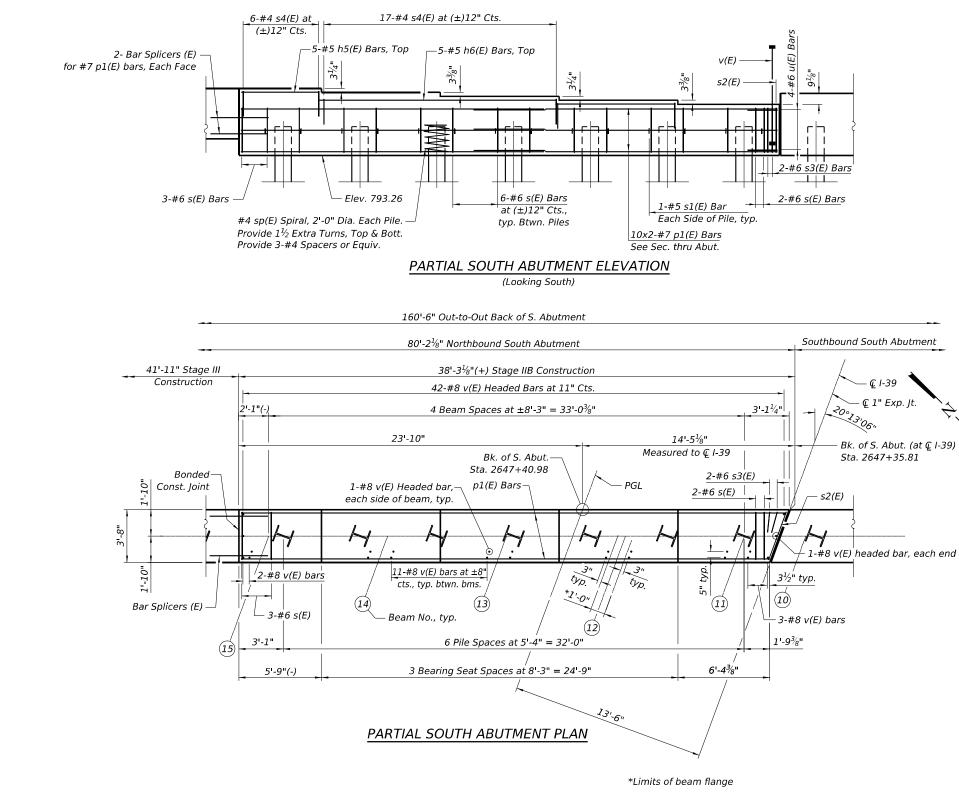
Bar	No.	Size	Length	Shape						
h(E)	6	#7	14'-10"							
h1(E)	3	#6	21'-2"							
h2(E)	2	#5	9'-9"							
h7(E)	5	#5	16'-8"							
h8(E)	5	#5	14'-9"							
h9(E)	5	#5	14'-2"							
p2(E)	20	#7	26'-5"							
p3(E)	20	#7	19'-0"							
s(E)	89	#6	14'-4"							
s1(E)	30	#5	4'-4"							
s2(E)	2	#6	14'-8"	<u> </u>						
s3(E)	4	#6	6'-2"							
s4(E)	46	#4	6'-10"							
**sp(E)	15	#4	2'-0"	<i></i>						
(=)	-									
u(E)	8	#6	12'-0"							
	220	".0								
V(E)	220	#8	6'-6" 7'-3"							
v1(E)	4	#5								
v2(E)	10	#5	11'-4"							
Structure	e Excav	ation	Cu. Yd.	92						
Concrete			Cu. Yd.	49.7						
Reinforc			45.7							
Ероху С		Pound	9,900							
Furnishir		Faat	630							
Piles HP12x63			Foot	030						
Driving F		Foot	630							
Test Pile	Steel H	Each	1							
Pile Shoe	es		Each	15						

\*\* Length is height of spiral

1. Pour steps monolithically with cap.

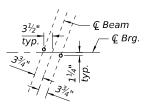
2. Bar terminators, paid for separately. See Total Bill of Material.

3. For details of piles see sheet 55 of 60.



	USER NAME = Ifranceschina	DESIGNED - JW	JW REVISED -	SOUTH ABUTMENT - NORTHBOUND STAGE 2B			SECTION	COUNTY SH	TOTAL SHEET SHEETS NO.	
	Chrage, mineis bueus	STATE OF ILLINOIS		STRUCTURE NO. 101-0208/0209	* (201-	-3)R & (4-1,5)R	WINNEBAGO	1685 586		
	PLOT SCALE = \$SCALE\$	CHECKED - AJN	REVISED - DEPARTMENT OF TRANSPORTATION STRUCTURE NO. 101-0208/0209	51K0C10KE NO, 101-0200/0205			CONTRACT N	NO. 64C24		
≅ <b>□</b>	PLOT DATE = 8/12/2024	DATE - 02/27/24	REVISED -	s	SCALE:	SHEET 43 OF 60 SHEETS STA. TO STA.		ILLINOIS FED. AID F	PROJECT	
* FAI ROUTE 39 (I-39) & FAP 301 (US 20) •										

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# ANCHOR BOLT LAYOUT

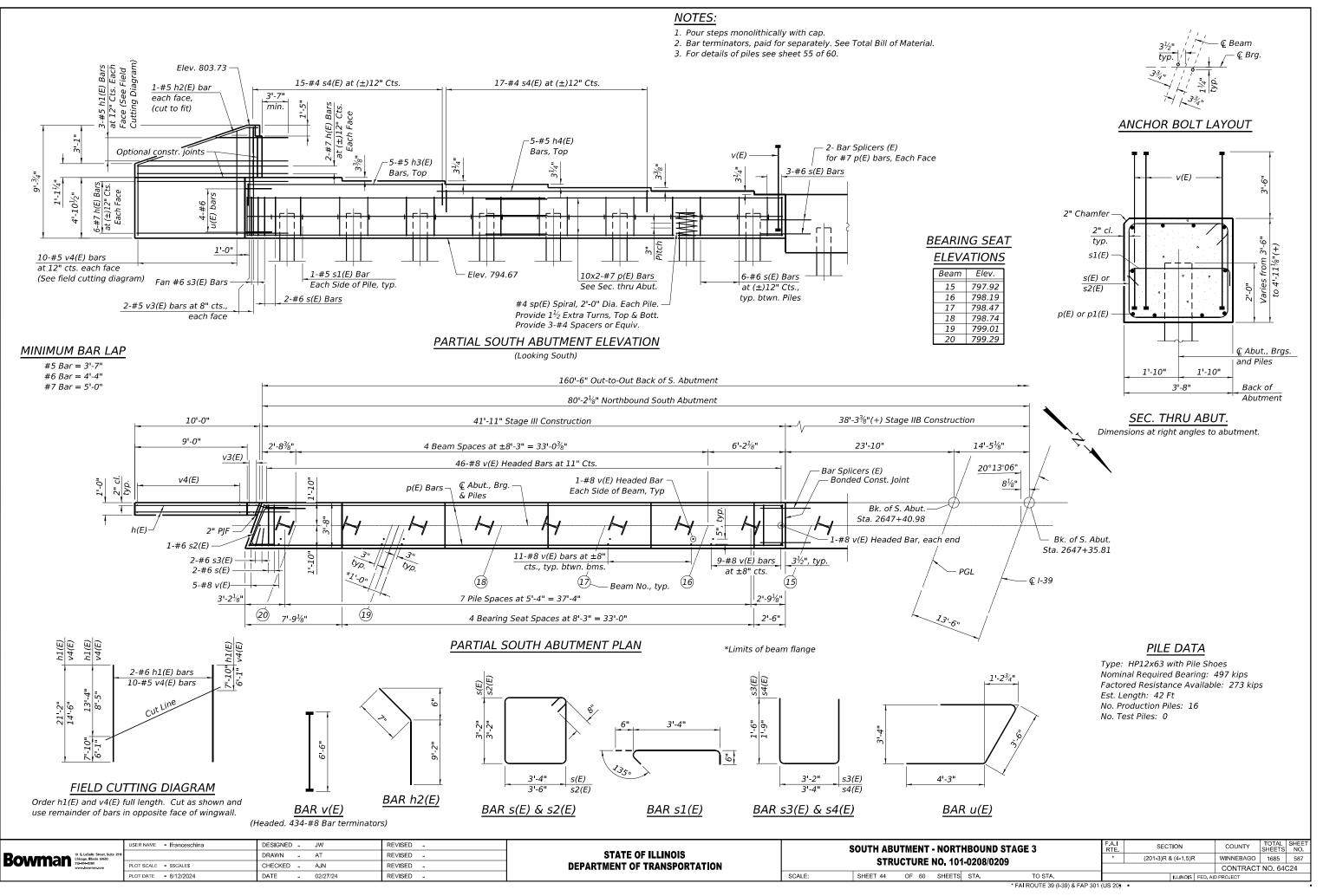
# BEARING SEAT

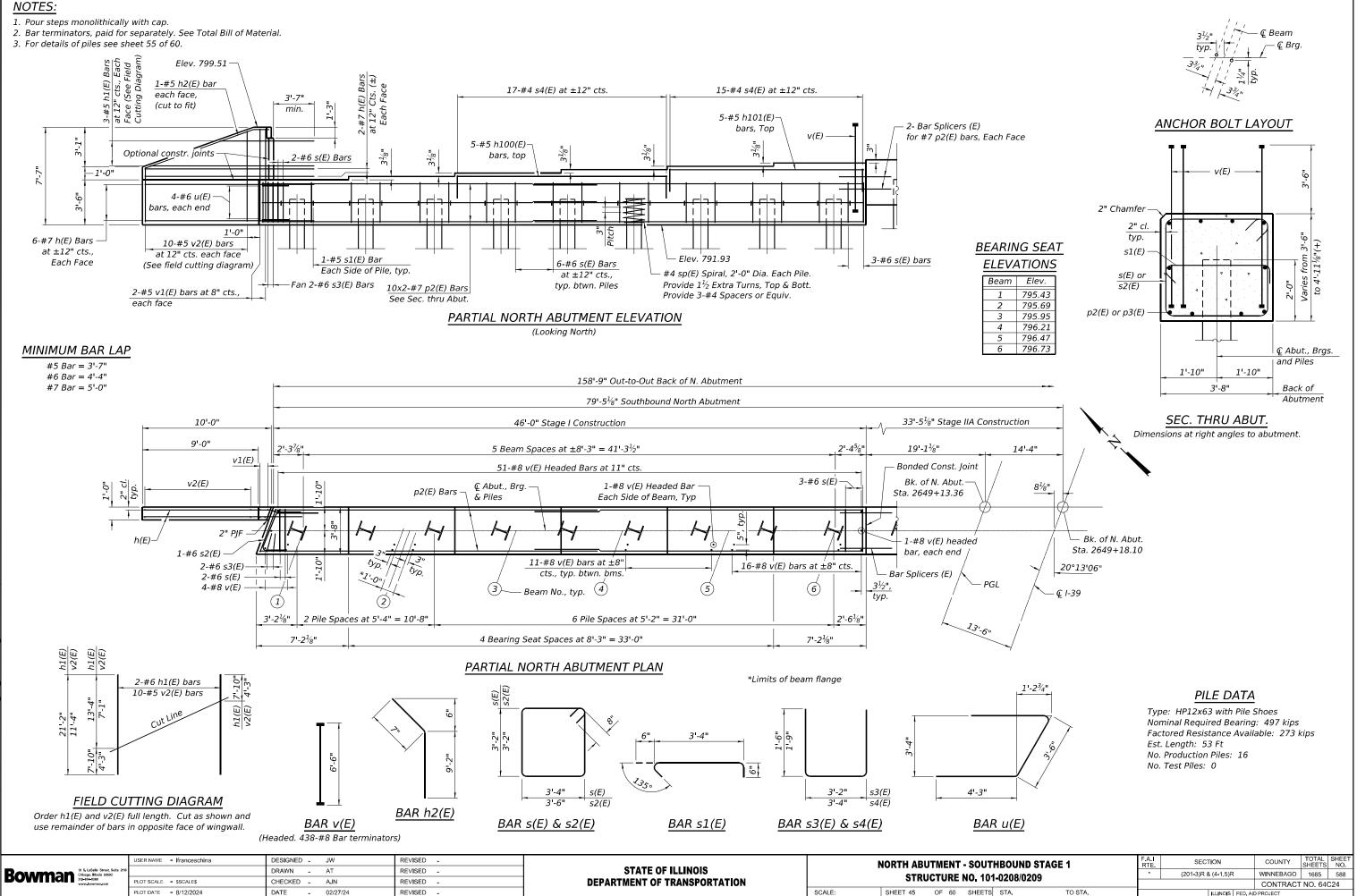
<u>ELEVATIONS</u>						
Beam	Elev.					
11	796.82					
12	797.10					
13	797.37					
14	797.65					
15	797.92					

### NORTHBOUND SOUTH ABUTMENT BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	9	#7	14'-10"	
h1(E)	2	#6	21'-2"	
h2(E)	2	#5	9'-9"	
h3(E)	5	#5	15'-4"	
h4(E)	5	#5	17'-0"	
h5(E)	5	#5	5'-5"	
h6(E)	5	#5	16'-6"	
p(E)	20	#7	23'-11"	
p(E) p1(E)	20	#7	23-11	
$p_{I(E)}$	20	#/	21-5	
s(E)	89	#6	14'-4"	<b>1</b>
s1(E)	30	#5	4'-4"	Ţ
s2(E)	2	#6	14'-8"	<b></b>
s3(E)	4	#6	6'-2"	
s4(E)	56	#4	6'-10"	
**sp(E)	15	#4	2'-0"	
u(E)	8	#6	12'-0"	
v(E)	217	#8	6'-6"	i
v3(E)	4	#5	8'-9"	
v4(E)	10	#5	14'-6"	
Structur			Cu. Yd.	92
Concrete		Cu. Yd.	49.2	
Reinforc		Pound	0.000	
Ероху С	oated	Pouna	8,990	
Furnishii	5	Foot	672	
Piles HP				
Driving F		Foot	672	
Pile Shoe	e <i>s</i>		Each	16

\*\* Length is height of spiral

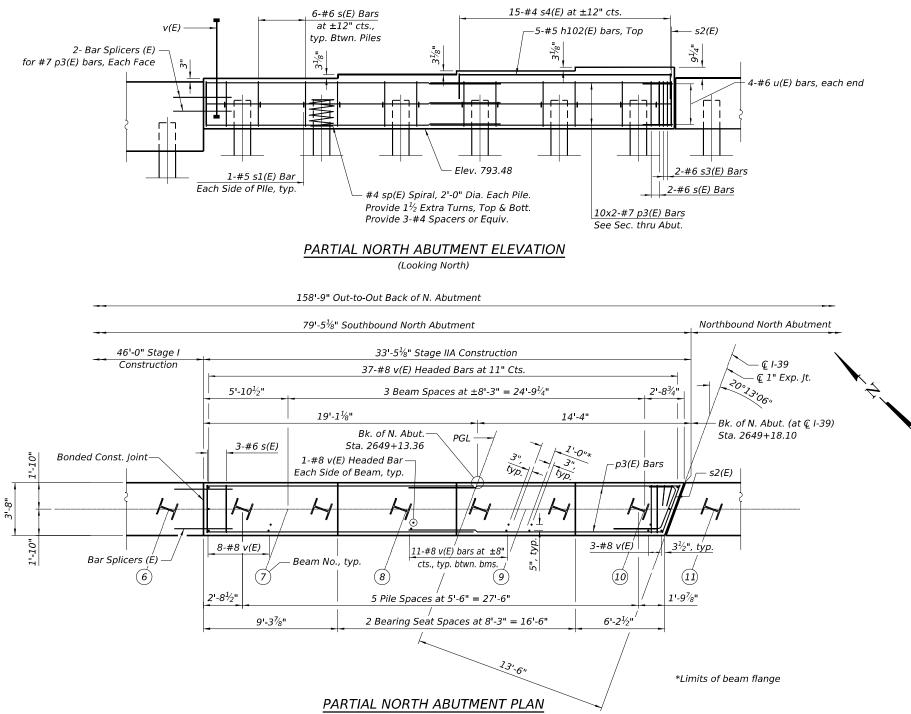




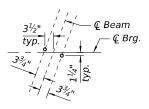
1. Pour steps monolithically with cap.

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

3. For details of piles see sheet 55 of 60.



ET S:\pw										
Ë SHE		USER NAME = Ifranceschina	DESIGNED - JW	REVISED -		NORTH ABUTMENT - SOUTHBOUND STAGE 2A		F.A. BTE	SECTION	COUNTY TOTAL SHEET SHEETS NO.
NAN NAN	Bowman <sup>10</sup> S. LaSalle Street, Suite 2110 Chicago, Illinois 60603 312-615-0360		DRAWN - AT	REVISED -	STATE OF ILLINOIS			*	(201-3)R & (4-1,5)R	WINNEBAGO 1685 589
E DE	DOVVIIICII 312-614-0360 www.bowman.com	PLOT SCALE = \$SCALE\$	CHECKED - AJN	REVISED - DEPARTMENT OF TRANSPORTATION STRUCTURE NO. 101-0208/0209				CONTRACT NO. 64C24		
N E		PLOT DATE = 8/12/2024	DATE - 02/27/24	REVISED -	SCA		SHEET 46 OF 60 SHEETS STA. TO STA.		ILLINOIS FE	D. AID PROJECT
-							* FAI ROUTE 39 (1-39	& FAP 301 (US 20	• •	•



# ANCHOR BOLT LAYOUT

# BEARING SEAT ELEVATIONS

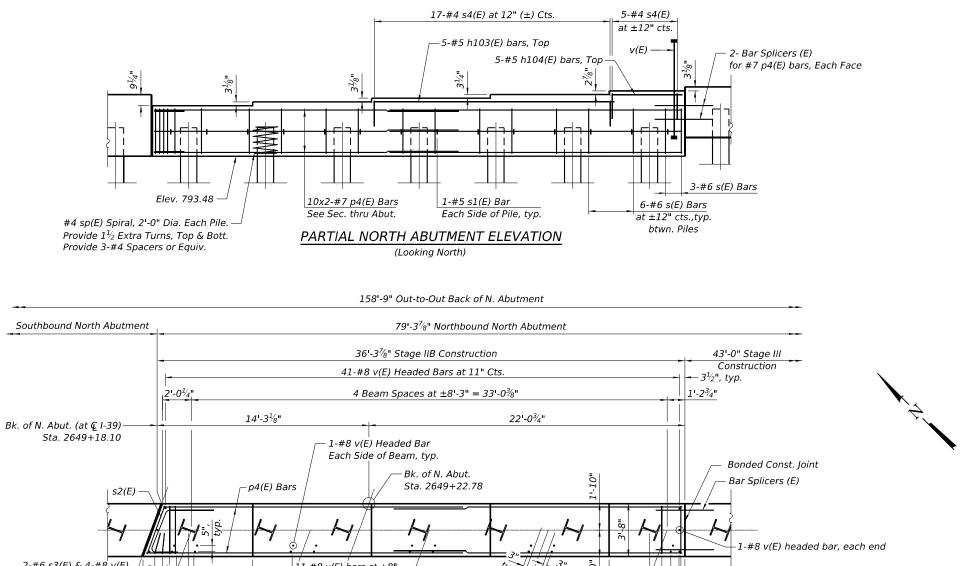
Beam	Elev.
7	796.98
8	797.24
9	797.50
10	797.76

# SOUTHBOUND NORTH ABUTMENT

BILL OF MATERIAL									
Bar	No.	Size	Length	Shape					
h(E)	9	#7	14'-10"						
h1(E)	2	#6	21'-2"						
h2(E)	2	#5	9'-9"						
h100(E)	5	#5	16'-8"						
h101(E)	5	#5	14'-9"						
h102(E)	5	#5	14'-2"						
p2(E)	20	#7	26'-5"						
p3(E)	20	#7	19'-0"						
s(E)	88	#6	14'-4"	<b>- - 7</b>					
s1(E)	30	#5	4'-4"						
s2(E)	2	#6	14'-8"						
s3(E)	4	#6	6'-2"	<u> </u>					
s4(E)	47	#4	6'-10"						
**sp(E)	15	#4	2'-0"						
u(E)	8	#6	12'-0"						
v(E)	219	#8	6'-6"	·					
v1(E)	4	#5	7'-3"						
v2(E)	10	#5	11'-4"						
Structure	e Excav	ation	Cu. Yd.	92					
Concrete			Cu. Yd.	49.2					
Reinforc Epoxy C		Pound	9,870						
Furnishii Piles HP	ng Steel	Foot	848						
Driving F			Foot	848					
Pile Shoe			Each	16					

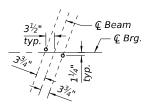
\*\*Length is height of spiral

- 1. Pour steps monolithically with cap.
- 2. Bar terminators, paid for separately. See Total Bill of Material.
- 3. For details of piles see sheet 55 of 60.



2-#6 s3(E) & 4-#8 v(E) 2-#6 s(E) @ 1" Exp. Jt.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	—2-#8 v(E) — 3-#6 s(E)
	$7' - 7^{\frac{1}{2}}$ /     3 Bearing Seat Spaces at 8'-3" = 24'-9"     5'-3 <sup>1</sup> / <sub>8</sub> "	
€ 1-39	PGL PGL	
	13'.6"	

Щ 🔂									
Шü		USER NAME = Ifranceschina	DESIGNED - JW	REVISED -		N	NORTH ABUTMENT - NORTHBOUND STAGE 2B		CTION COUNTY TOTAL SHEET
AAN .	Rouman 10 & LaSalle Street, Suite 2110 Chicago, Illinois 60603		DRAWN - AT	REVISED -	STATE OF ILLINOIS			* (201-3)R	R & (4-1,5)R WINNEBAGO 1685 590
B	BOAAL LICE 312-614-0360 www.bowman.com	PLOT SCALE = \$SCALE\$	CHECKED - AJN	REVISED -	DEPARTMENT OF TRANSPORTATION		STRUCTURE NO. 101-0208/0209		CONTRACT NO. 64C24
źπ		PLOT DATE = 8/12/2024	DATE - 02/27/24	REVISED -		SCALE:	SHEET 47 OF 60 SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT
							* FAI ROUTE 39 (I-39) & FAP 301	(US 20) •	•



# ANCHOR BOLT LAYOUT

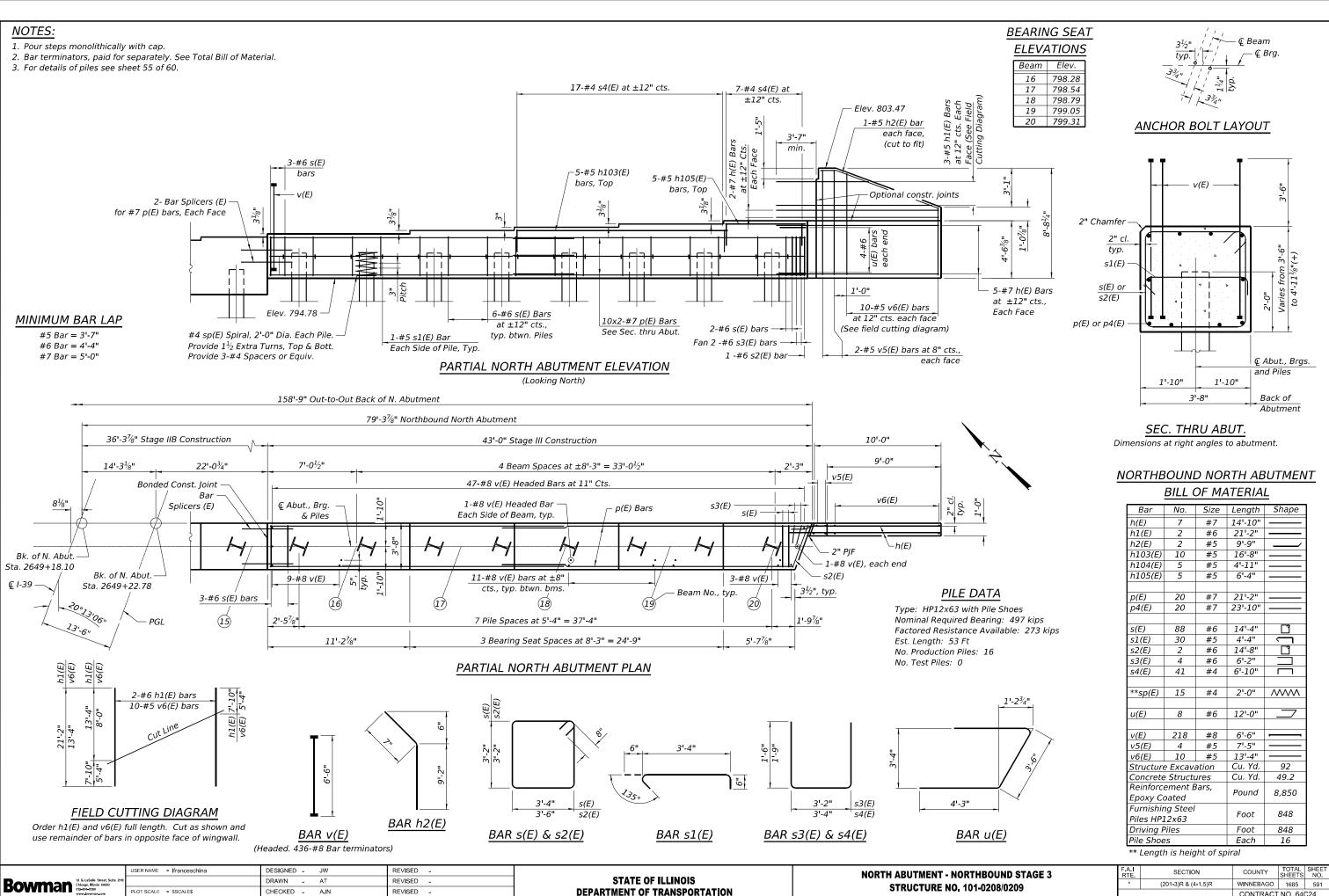
#### BEARING SEAT ELEVATIONS

ELEVATIONS							
Beam	Elev.						
11	796.99						
12	797.25						
13	797.51						
14	797.78						
15	798.02						

### PILE DATA

*Type: HP12x63 with Pile Shoes* Nominal Required Bearing: 497 kips Factored Resistance Available: 273 kips Est. Length: 53 Ft No. Production Piles: 16 No. Test Piles: 0





LOT DATE = 8/12/2024

DATE

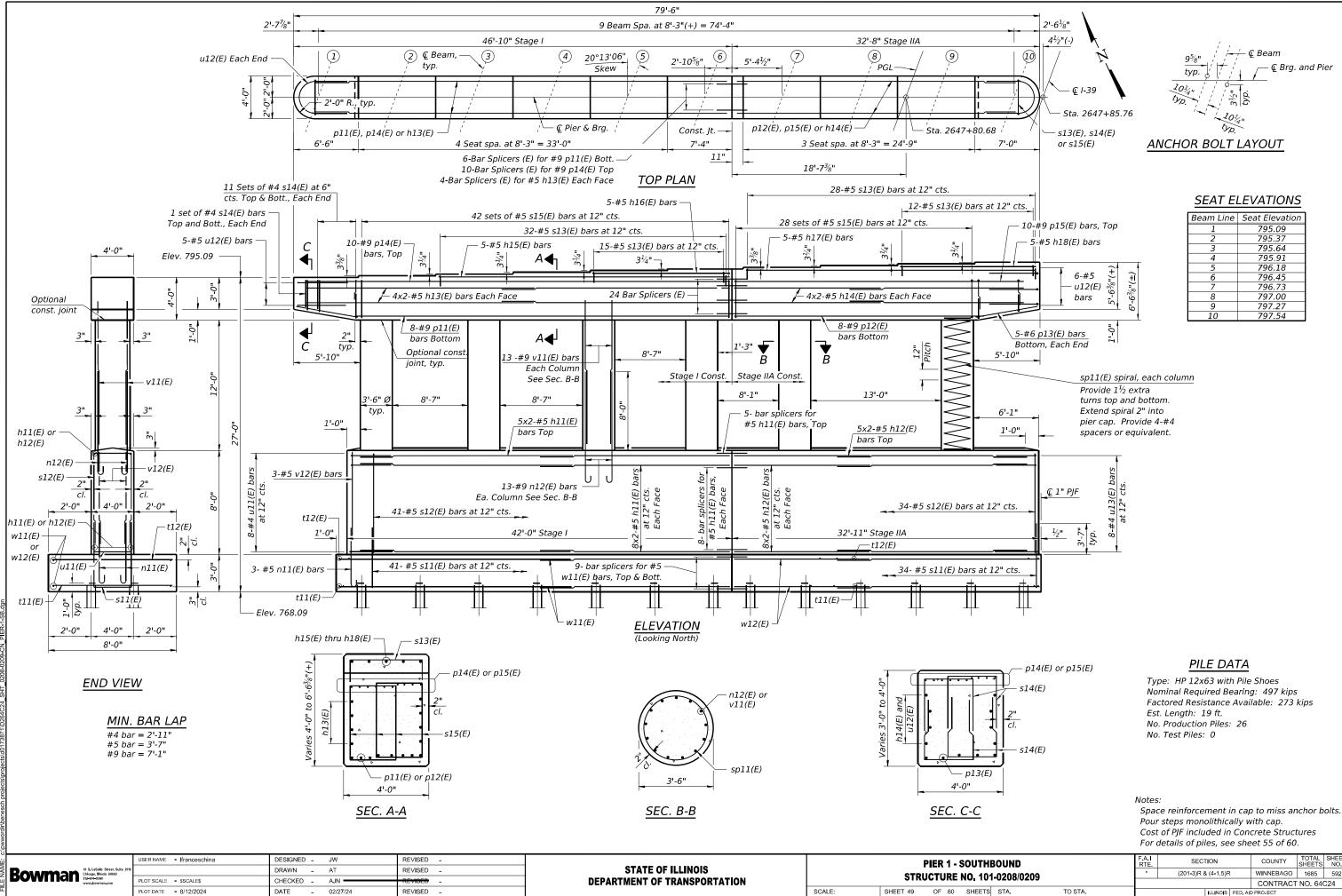
- 02/27/24

REVISED -

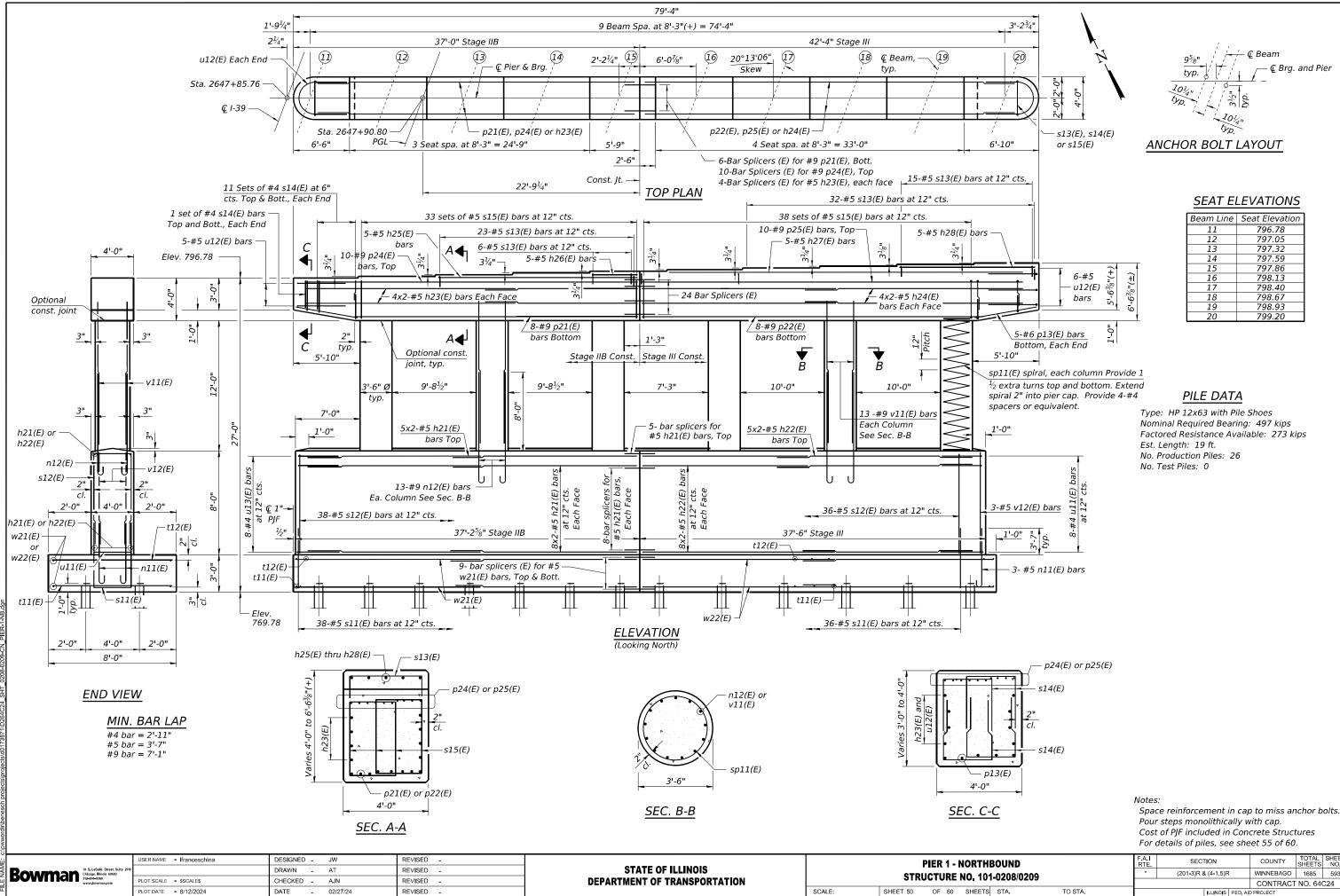
SHEET 48 OF 60 SHEETS

SCALE:

THBOUND STAGE 3				SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.
1	-0208/02	ρησ	*	* (201-3)R & (4-1,5)R			WINNEBAGO	1685	591
	-0200/04	203					CONTRACT	NO. 64	C24
3	STA.	TO STA.			ILLINOIS	FED. AI	D PROJECT		
		* EALROUTE 39 (I-39) & EAP 3	801 (US 20)	•					



HE	HBOUND			SEC.	FION		COUNTY	TOTAL SHEETS	SHEET NO.	
01-0208/0209			*	(201-3)R & (4-1,5)R			WINNEBAGO	1685	592	
	-0200/0	205					CONTRACT NO. 64C24			
TS	TS STA. TO STA.				ILLINOIS	FED. AI	D PROJECT			
		* FAI ROUTE 39 (I-39) & FAF	9 301 (US 20)	•					•	



Notes:

THE	BOUND	0208/0209 STA. TO STA.	F.A.I RTE	SECTION COUNTY			COUNTY	TOTAL SHEETS	SHEET NO.
101-0208/0209			*	(201-3)R & (4-1,5)R			WINNEBAGO	1685	593
	-0200/	0203	_				CONTRACT	NO. 640	224
ETS	STA.	TO STA.			ILLINOIS	FED, AI	PROJECT		
		* FAI ROUTE 39 (I-39) & FAP 301	(US 20)	•					

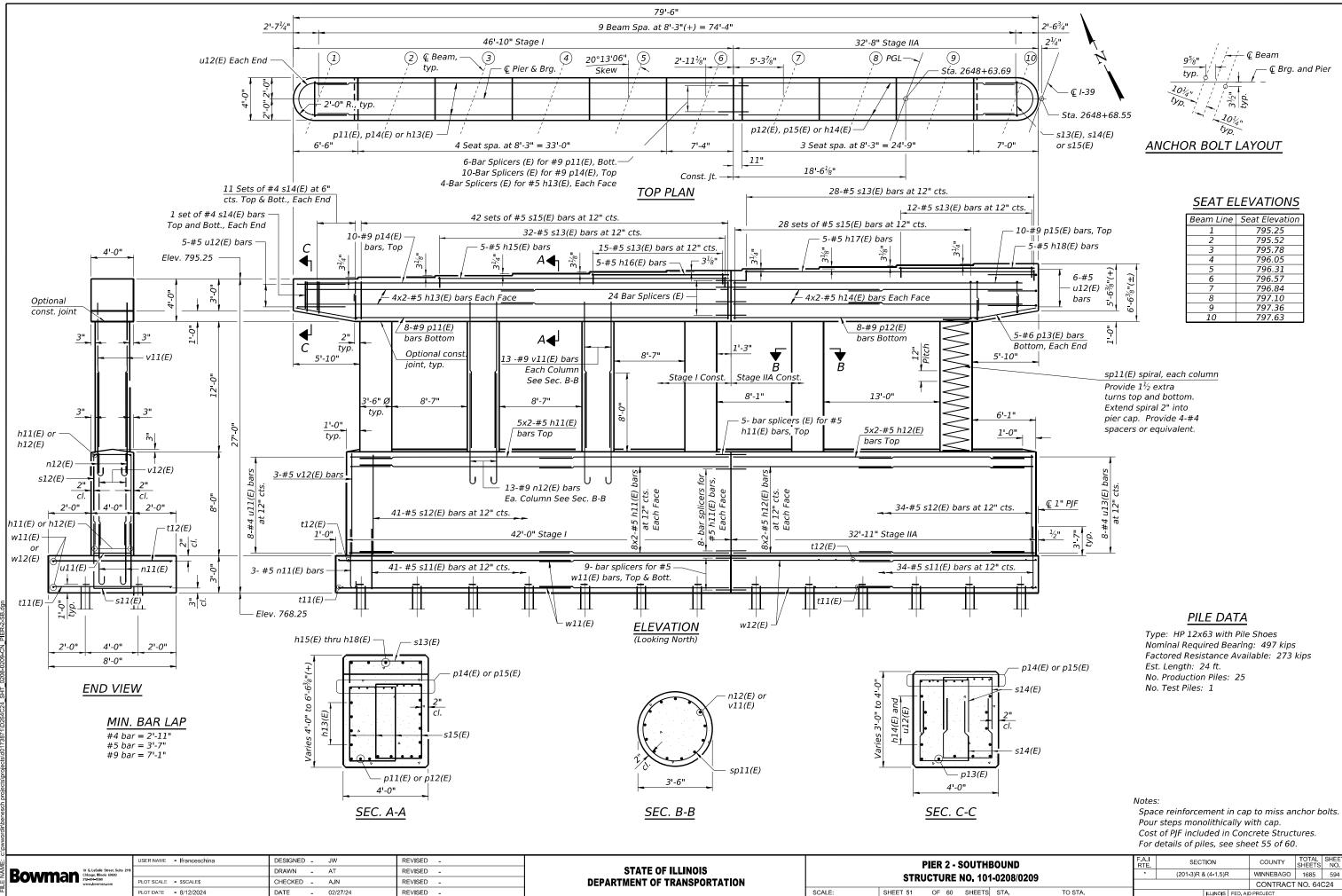
#### C Beam - 🧲 Brg. and Pier typ. 201/ typ 101/1 1YD ANCHOR BOLT LAYOUT

### SEAT ELEVATIONS

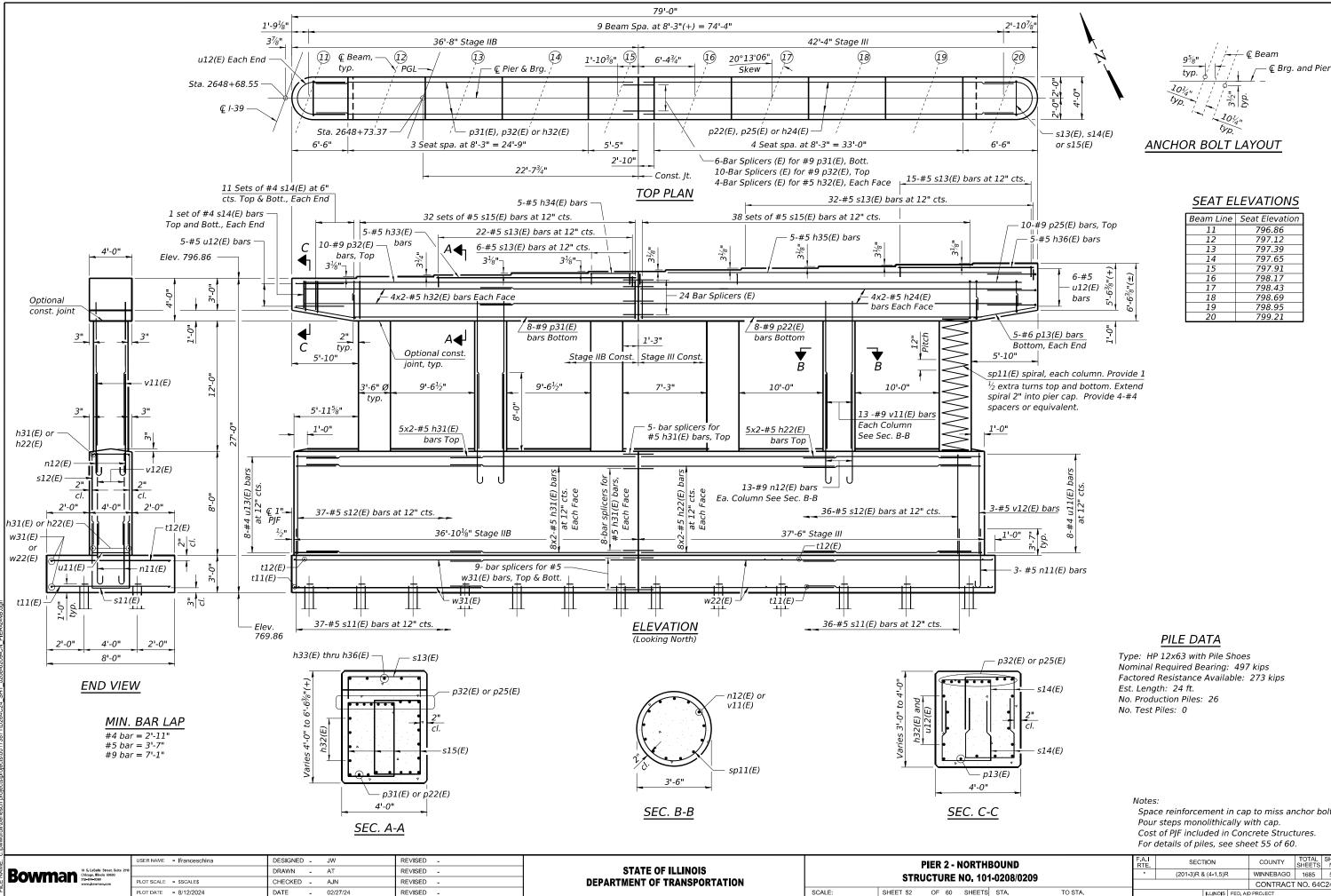
Beam Line	Seat Elevation
11	796.78
12	797.05
13	797.32
14	797.59
15	797.86
16	798.13
17	798.40
18	798.67
19	798.93
20	799.20

PILE DATA

Type: HP 12x63 with Pile Shoes Nominal Required Bearing: 497 kips Factored Resistance Available: 273 kips Est. Length: 19 ft. No. Production Piles: 26 No. Test Piles: 0

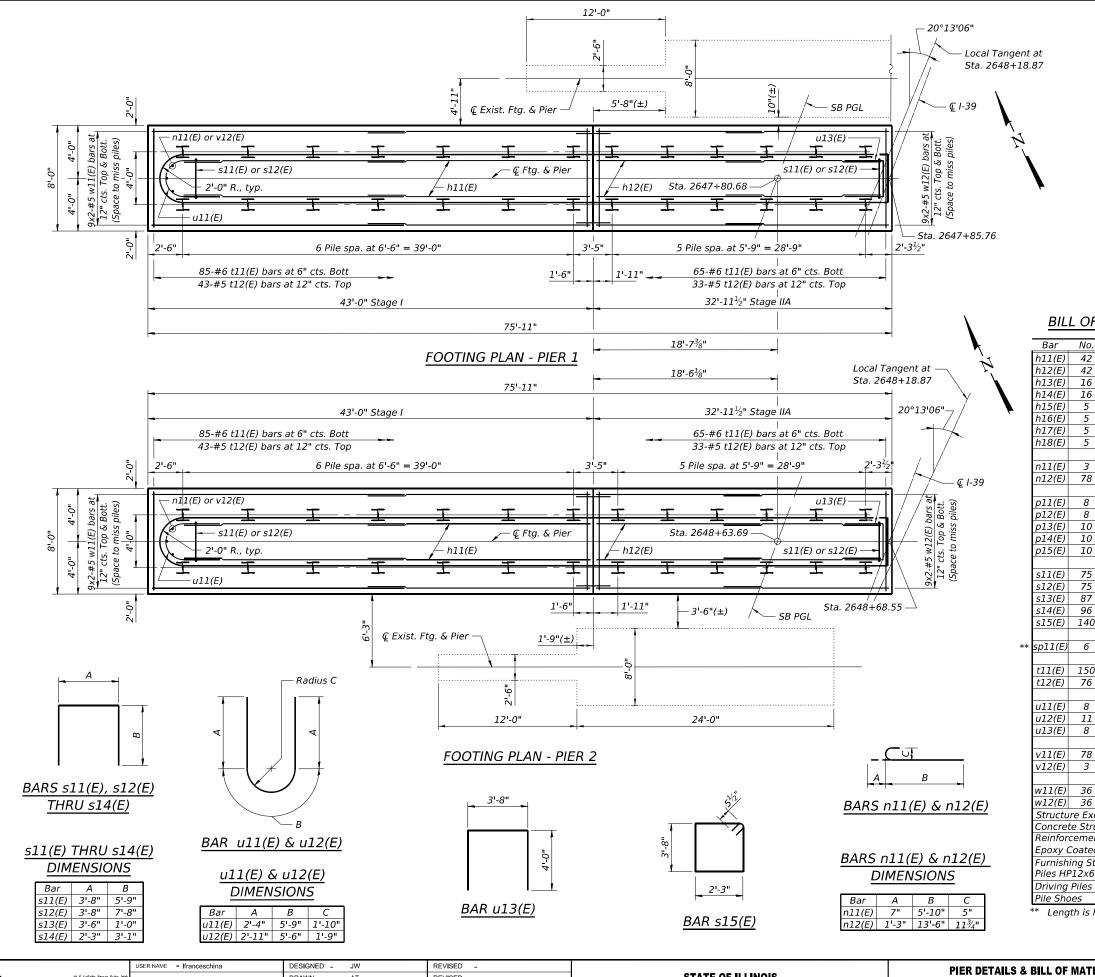


\* FAI ROUTE 39 (I-39) & FAP 301 (US 20) •



Space reinforcement in cap to miss anchor bolts. Cost of PJF included in Concrete Structures.

HE	HBOUND			SEC	SECTION			TOTAL SHEETS	SHEET NO.	
01-0208/0209			*	(201-3)R & (4-1,5)R			WINNEBAGO	1685	595	
	-0200/0	205					CONTRACT NO. 64C24			
TS	STA.	TO STA.			ILLINOIS	FED, AI	D PROJECT			
		* FAI ROUTE 39 (I-39) & FA	P 301 (US 20)	•						



**STATE OF ILLINOIS** DRAWN - AT REVISED -Bowman 10 S. LaSalle Street. Chicago, Illinois 6060 OT SCALE = \$SCALE\$ CHECKED - AJN REVISED -**DEPARTMENT OF TRANSPORTATION** SCALE: LOT DATE = 8/12/2024 DATE - 02/27/24 REVISED -

SHEET 53 OF 60 SHEET

#### BILL OF MATERIAL - PIER 1

),	Size	Length	Shape						
2	#5	22'-8"							
2	#5	18'-1"							
2 2 6	#5	24'-11"							
5	#5	17'-10"							
	#5	31'-3"							
	#5	14'-10"							
	#5	22'-10"							
	#5	14'-8"							
	#5	6'-4"							
3	#9	14'-9"							
	#9	41'-2"							
	#9	27'-1"							
)	#6	5'-8"							
)	#9	44'-8"							
)	#9	30'-6"							
, 		50 0							
5	#5	15'-2"							
5	#5	19'-0"							
7	#5	5'-6"							
5 5 7 6	#4	8'-5"							
0	#5	12'-9"							
<u> </u>		12 5							
	#4	12'-2"	~~~~						
	<i><i>π+</i></i>	12 2	/////						
0	#6	7'-8"							
5	#5	7'-8"							
		, 0							
	#4	10'-5"							
1	#5	11'-4"							
	#4	11'-8"							
		11 0							
3	#9	13'-0"							
, ,	#5	7'-8"							
		, 0							
<u>5</u>	#5	23'-2"							
5 5	#5	18'-1"							
		Cu. Yd.	150						
xcavation ructures		Cu. Yd. Cu. Yd.	229.1						
ent Bars,									
ed		Pound	24,640						
Stee	<u></u>								
63		Foot	494						
s		Foot	494						
,		Each	26						
			20						

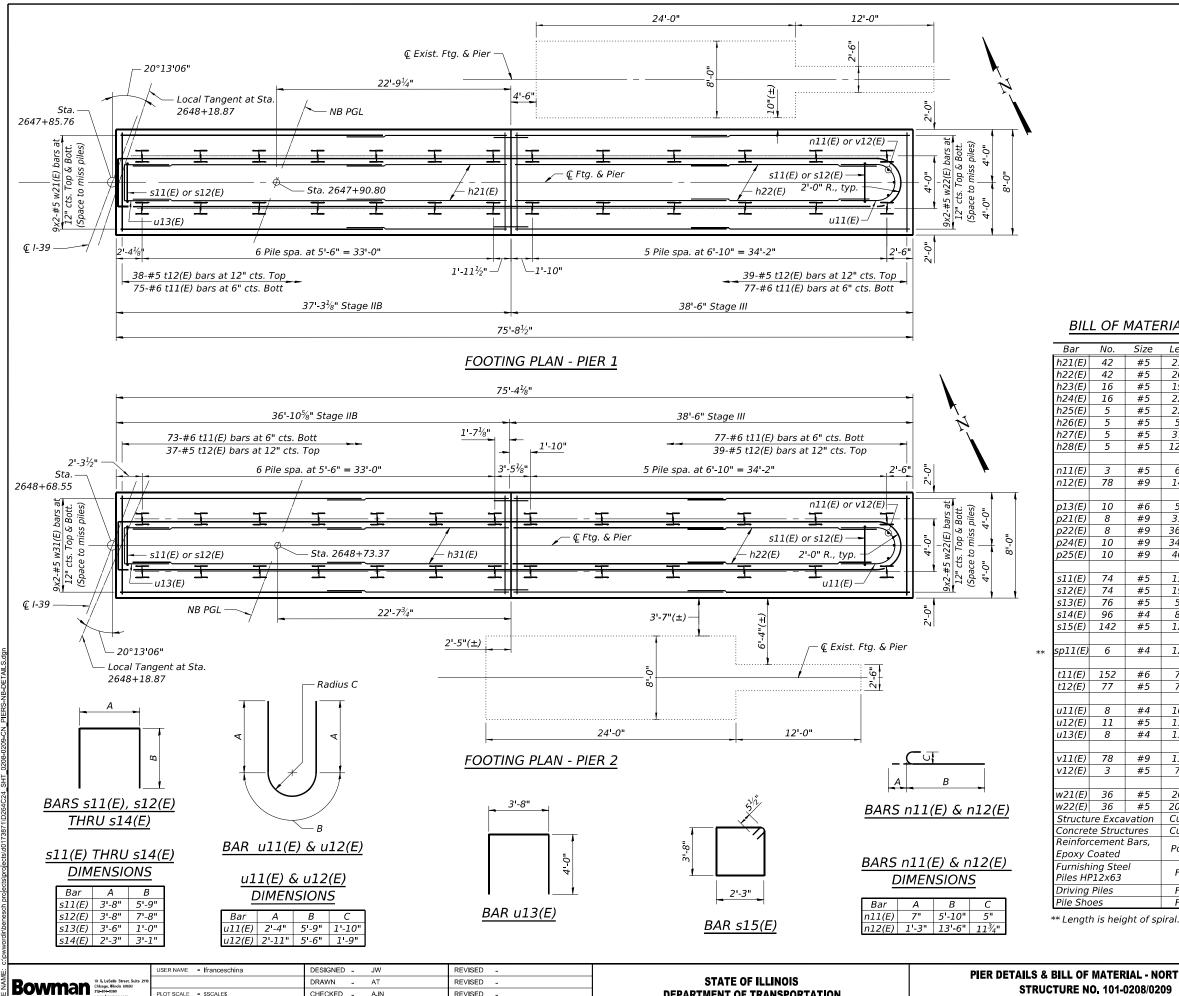
#### BILL OF MATERIAL - PIER 2

Bar	No.	Size	Length	Shape		
h11(E)	42	#5	22'-8"			
h12(E)	42	#5	18'-1"			
h13(E)	16	#5	24'-11"			
h14(E)	16	#5	17'-10"			
h15(E)	5	#5	31'-3"			
h16(E)	5	#5	14'-10"			
h17(E)	5	#5	22'-10"			
h18(E)	5	#5	14'-8"			
1110(L)	5	#5	14-0			
n11(E)	3	#5	6'-4"			
n12(E)	78	#9	14'-9"			
1112(L)	/0	#9	14-9			
p11(E)	0	#0	41'-2"			
p11(E)	8 8	#9 #9	27'-1"			
p12(E)						
p13(E)	10	#6	5'-8"			
p14(E)	10	#9	44'-8"			
p15(E)	10	#9	30'-6"			
-11(5)	75		151.00			
s11(E)	75	#5	15'-2"			
s12(E)	75	#5	19'-0"			
s13(E)	87	#5	5'-6"			
s14(E)	96	#4	8'-5"			
s15(E)	140	#5	12'-9"	G		
* sp11(E)	6	#4	12'-2"			
t11(E)	150	#6	7'-8"			
t12(E)	76	#5	7'-8"			
u11(E)	8	#4	10'-5"			
u12(E)	11	#5	11'-4"	$\square$		
u13(E)	8	#4	11'-8"			
v11(E)	78	#9	13'-0"			
v12(E)	3	#5	7'-8"			
w11(E)		#5	23'-2"			
w12(E)	36	#5	18'-1"			
Structu	ire Exca	vation	Cu. Yd.	150		
Concre	te Struc	tures	Cu. Yd.	229.1		
Reinfor	Reinforcement Bars, Epoxy Coated			21 610		
Ероху (				24,640		
Furnish	ing Stee	e/	Foot	500		
Piles HI	P12x63		Foot	598		
Driving	Piles		Foot	598		
Test Pil			Fach			
HP12x6			Each	1		
Pile Sho	oes		Each	25		
		inter al				

\*\* Length is height of spiral.

\*\* Length is height of spiral.

TAILS	AILS & BILL OF MATERIAL - SOUTHBOUND					F.A.I RTE					TOTAL SHEETS	SHEET NO.
STRUCTURE NO. 101-0208/0209					*	(201-3)R & (4-1,5)R WINNEBAG		WINNEBAGO	1685	596		
01110				-0200/0	203		CONTRACT NO. 64C2				C24	
ET 53 OF 60 SHEETS STA. TO STA.						ILLINOIS	FED. AI	ID PROJECT				
	* FAI ROUTE 39 (I-39) & FAP 301 (US 20) • • •											



**STATE OF ILLINOIS** DRAWN - AT REVISED -STRUCTURE NO. 10 OT SCALE = \$SCALE\$ CHECKED - AJN REVISED -**DEPARTMENT OF TRANSPORTATION** SCALE: SHEET 54 OF 60 SHEET LOT DATE = 8/12/2024 DATE - 02/27/24 REVISED -

#### BILL OF MATERIAL - PIER 1

1	MATERIAL - FILK I								
).	Size	Length	Shape						
2	#5	21'-3"							
2 2 5 5	#5	20'-5"							
<u>5</u>	#5	19'-8"							
5	#5	22'-4"							
	#5	22'-3"							
	#5	5'-5"							
	#5	37'-8"							
	#5	12'-11"							
	#5	6'-4"	0						
3	#9	14'-9"	0						
)	#6	5'-8"							
	#9	31'-6"							
	#9	36'-10"							
)	#9	34'-10"							
)	#9	40'-2"							
1	#5	15'-2"							
1	#5	19'-0"							
ĵ	#5	5'-6"							
5	#4	8'-5"							
2	#5	12'-9"	3						
	#4	12'-2"	$\sim$						
2 7	#6	7'-8"							
7	#5	7'-8"							
	#4	10'-5"	$\prod_{i=1}^{n}$						
1	#5	11'-4"	$\bigcap$						
	#4	11'-8"							
3	#9	13'-0"							
	#5	7'-8"							
ĵ	#5	20'-3"							
ĵ	#5	20'-11"							
xcavation		Cu. Yd.	152						
ructures		Cu. Yd.	228.8						
ent Bars,		Pound	24,520						
ed		Found	24,520						
Stee	el	Foot	494						
63									
5		Foot	494						
		Foot	26						

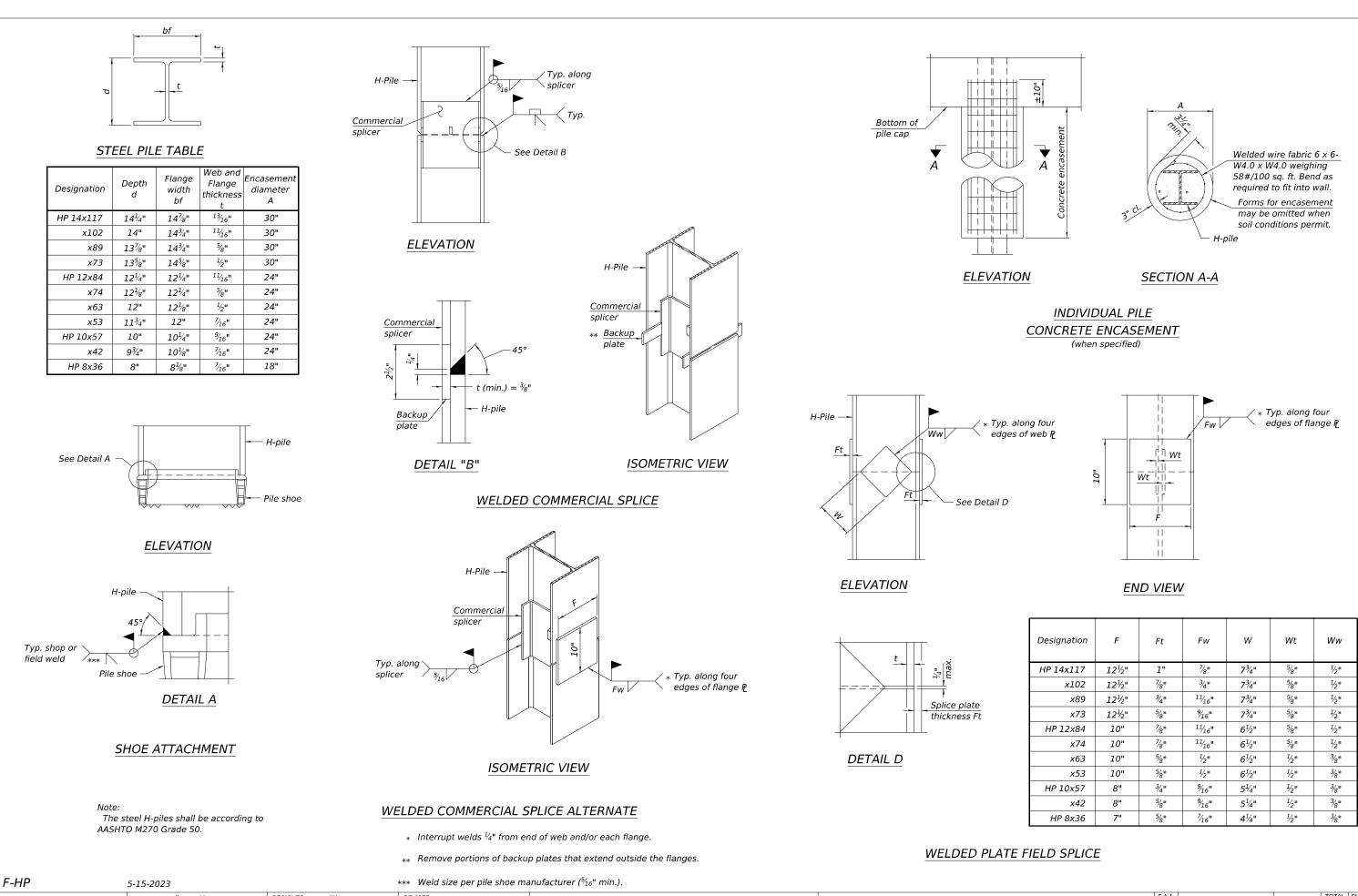
\*\*

#### BILL OF MATERIAL - PIER 2

Bar	No.	Size	Length	Shape			
h22(E)	42	#5	20'-5"				
h24(E)	16	#5	22'-4"				
h31(E)	42	#5	21'-1"				
h32(E)	16	#5	19'-6"				
h33(E)	5	#5	21'-7"				
h34(E)	5	#5	5'-1"				
h35(E)	5	#5	37'-4"				
h36(E)	5	#5	12'-7"				
n11(E)	3	#5	6'-4"				
n12(E)	78	#9	14'-9"				
p13(E)	10	#6	5'-8"				
p22(E)	8	#9	36'-10"				
p25(E)	10	#9	40'-2"				
p31(E)	8	#9	31'-2"				
p32(E)	10	#9	34'-6"				
s11(E)	73	#5	15'-2"				
s12(E)	73	#5	19'-0"				
s13(E)	75	#5	5'-6"				
s14(E)	96	#4	8'-5"				
s15(E)	140	#5	12'-9"				
sp11(E)	6	#4	12'-2"	~~~~			
t11(E)	150	#6	7'-8"				
t12(E)	76	#5	7'-8"				
	0		101 51				
u11(E)	8	#4	10'-5"	=			
u12(E)	<u>11</u> 8	#5 #4	<u>11'-4"</u> 11'-8"				
u13(E)	8	#4	118				
v11(E)	78	#9	13'-0"				
v12(E)	3	#5	7'-8"				
VIZ(L)	5	#5	7-0				
w31(E)	36	#5	20'-1"				
w22(E)	36	#5	20'-11"				
	re Exca		Cu. Yd.	151			
Concret			Cu. Yd.	227.8			
Reinfor							
Epoxy Coated			Pound	24,370			
Furnishing Steel				62.4			
Piles HF			Foot	624			
Driving			Foot	624			
Pile Sho			Foot	26			
-							

\*\* Length is height of spiral.

TERIAL - NORTHBOUND		F.A.I RTE	SEC	ION		COUNTY	TOTAL SHEETS	SHEET NO.		
		*	(201-3)R & (4-1,5)R			WINNEBAGO	1685	597		
	01-0200/0209						CONTRACT	NO. 640	C24	
TS	STA.	TO STA.		ILLINOIS FED. AID PROJECT						
	* EAL DOUTE 30 (L30) & EAD 304 (L0 30)									

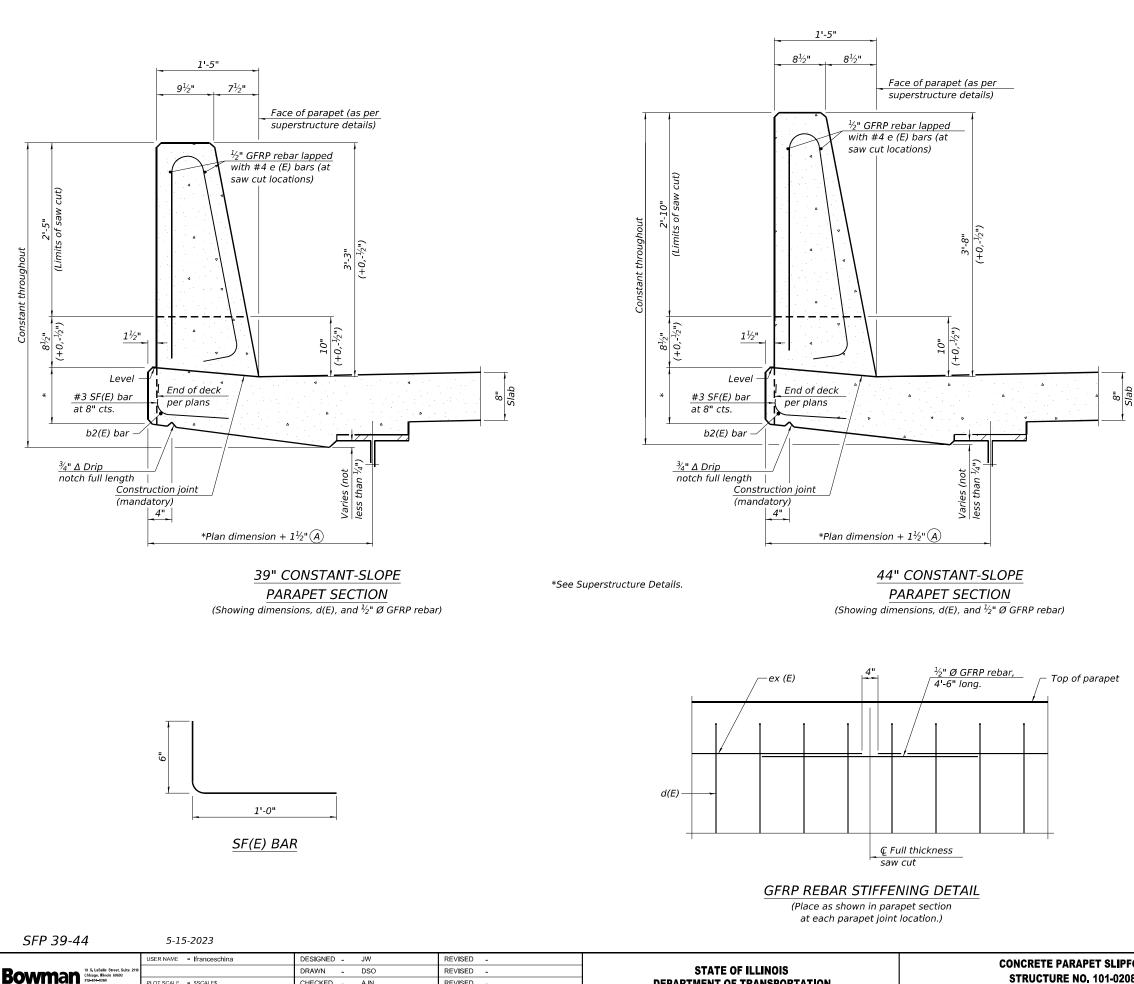


USER NAME = Ifranceschina DESIGNED - JW REVISED PILE DETA DRAWN -STATE OF ILLINOIS DSO REVISED Bowman 10 S. LaSalle Street Chicago, Illinois 600 312-614-0360 STRUCTURE NO. 10 LOT SCALE = \$SCALE\$ CHECKED -AJN REVISED **DEPARTMENT OF TRANSPORTATION** SCALE: SHEET 55 OF 60 SHEET PLOT DATE = 8/12/2024 DATE - 02/27/24 REVISED -

END	VIEW
	~ ~ ~ ~ ~ ~ ~

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12½"	1"	7∕8"	7¾"	<i>5</i> ∕8"	<sup>1</sup> ⁄2"
x102	12½"	<i>7</i> ∕8"	<i>3</i> / <sub>4</sub> "	7¾"	<i>5</i> /8"	<sup>1</sup> ⁄2"
x89	12½"	<i>3</i> /4"	<sup>11</sup> ⁄16"	7¾"	<sup>5</sup> ⁄8"	<sup>1</sup> /2"
x73	12½"	<i>5</i> /8"	<sup>9</sup> ⁄16"	7¾"	<i>5</i> /8"	<sup>1</sup> ∕2"
HP 12x84	10"	7⁄8"	<sup>11</sup> ⁄16"	6½"	<i>5</i> ∕8"	<sup>1</sup> /2"
x74	10"	7⁄8"	<sup>11</sup> ⁄16"	6½"	<i>5</i> /8"	<sup>1</sup> / <sub>2</sub> "
x63	10"	<i>5</i> /8"	1⁄2"	6½"	½"	<i>3</i> ∕8"
x53	10"	<sup>5</sup> ⁄8"	<sup>1</sup> /2"	6½"	<sup>1</sup> ⁄2"	<sup>3</sup> ⁄8"
HP 10x57	8"	<i>3</i> / <sub>4</sub> "	<sup>9</sup> ⁄16"	5¼"	1⁄2"	<i>3</i> ∕8"
x42	8"	<sup>5</sup> ⁄8"	<sup>9</sup> ⁄16"	5¼"	<sup>1</sup> ⁄2"	<sup>3</sup> ⁄8"
HP 8x36	7"	<i>5</i> ∕8"	7∕ <sub>16</sub> "	4¼"	<sup>1</sup> ⁄2"	<sup>3</sup> ⁄8"

AILS			F.A.I RTE	SECT	TION		COUNTY	TOTAL SHEETS	SHEET NO.
01-0208/0209		*	* (201-3)R & (4-1,5)R WINNEB			WINNEBAGO	1685	598	
	-0200/0/	209					CONTRACT	NO. 640	224
TS	STA.	TO STA.		ILLINOIS FED. AID PROJECT					
	* FAI ROUTE 39 (I-39) & FAP 301 (US 20)								



MODEL: SHEET FILE NAME: c:\pv

		USER NAME = Ifranceschina	DESIGNED - JW	REVISED -		CONCRETE PARAPET SLIPFORMING			SECTION	COUNTY TOTAL SHEET
	Bowman <sup>10 S</sup> LISsler Street, Suite 2110 Charge, Billiote 60003 312-56-4286 www.bowman.com		DRAWN - DSO	REVISED -	STATE OF ILLINOIS		STRUCTURE NO. 101-0208/0209	*	(201-3)R & (4-1,5)R	WINNEBAGO 1685 599
		PLOT SCALE = \$SCALE\$	CHECKED - AJN	REVISED -	DEPARTMENT OF TRANSPORTATION		51 KUCTURE NU, 101-0200/0209			CONTRACT NO. 64C24
		PLOT DATE = 8/12/2024	DATE -	REVISED -		SCALE:	SHEET 56 OF 60 SHEETS STA. TO STA.		ILLINOIS FED.	AID PROJECT
	* FAI ROUTE 39 (I-39) & FAP 301 (US 20) •									

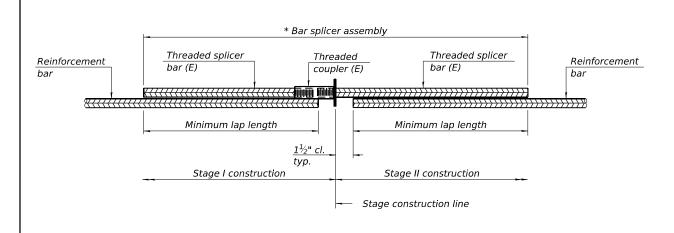
Notes:

All dimensions shall remain the same as shown on superstructure details, except dimension A which is to be revised as shown. Additional concrete needed to revise dimension A = 0.00348 cu. yds./ft. for 39" and 44" parapets.

Place full depth aluminum sheets as shown on superstructure details.

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

Steel superstructure shown. Other superstructure types similar.



#### STANDARD BAR SPLICER ASSEMBLY PLAN

Only bar splicer assemblies as presented on the approved QPL list may be used.

Threaded splicer bar length = min. lap length +  $1\frac{1}{2}$ " + thread length

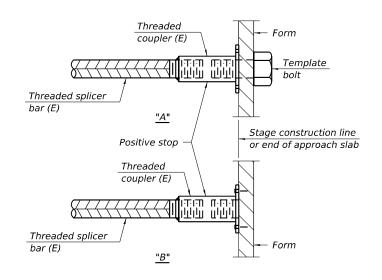
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

#### NORTHBOUND STRUCTURE

Location	Bar	No. assemblies	Minimum
LOCALION	size	required	lap length
Annroach Elabo	#5	92	3'-2"
Approach Slabs	#8	124	5'-1"
Deck Slab	#5	665	3'-2"
Abutments	#7	8	4'-5"
Piers	#5	94	3'-2"
PIEIS	#9	36	5'-8"

#### SOUTHBOUND STRUCTURE

Location	Bar	No. assemblies	Minimum
LUCATION	size	required	lap length
Approach Slabs	#5	92	3'-2"
Approach Slabs	#8	124	5'-1"
Deck Slab	#5	665	3'-2"
Abutments	#7	8	4'-5"
Piers	#5	94	3'-2"
Piers	#9	36	5'-8"



#### INSTALLATION AND SETTING METHODS

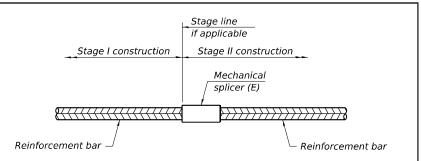
"A" : Set bar splicer assembly by means of a template bolt.

"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.

5-15-2023

Щ. На На На На На На На На На На На На На		USER NAME = Ifranceschina	DESIGNED - JW	REVISED -			6	BAR SPL		ET/
	Polaron 10 S. LaSalle Street, Suite 2110 Chicago, Illingis 60603		DRAWN - DSO	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 101-(				
		PLOT SCALE = \$SCALE\$	CHECKED - AJN	REVISED -	DEPARTMENT OF TRANSPORTATION		SIRU	JUTURE	NO, 10	1-02
ž		PLOT DATE = 8/12/2024	DATE - 02/27/24	REVISED -		SCALE:	SHEET 57	OF 60	SHEETS	ST



# STANDARD MECHANICAL SPLICER

Location	Bar	No. assemblies
Location	size	required

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

- All reinforcement shall be lapped and tied to the splicer bars.
- Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications. See approved list of bar splicer assemblies and mechanical splicers for
- alternatives.

DETAILS			F.A.I RTE	SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.
01-0208/0209		*	(201-3)R & (4-1,5)R		WINNEBAGO	1685	600		
J1-0208/0209							CONTRACT	NO. 640	224
٢S	STA.	TO STA.			ILLINOIS	FED. AID PROJECT			
	* EAL DOUTE 20 (1 20) & EAD 204 (10 20)								