

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR PROFESSIONAL SEALS, SEE SHEET NO. 2

KEELER AVENUE
FUNCTIONAL CLASSIFICATION
LOCAL STREET
 2014 ADT = 1,400
 TRUCKS = 0%
 DESIGN SPEED = 20 MPH
 POSTED SPEED = 20 MPH

CONGRESS PARKWAY
FUNCTIONAL CLASSIFICATION
MINOR COLLECTOR
 2014 ADT = 3,900
 TRUCKS = 0%
 DESIGN SPEED = 30 MPH
 POSTED SPEED = 30 MPH (UNPOSTED)

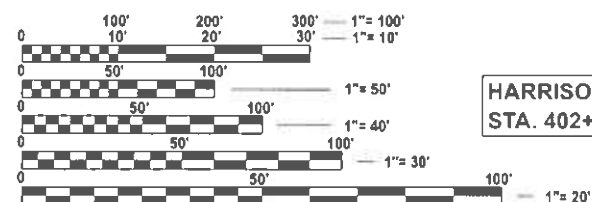
HARRISON STREET
FUNCTIONAL CLASSIFICATION
LOCAL STREET
 2014 ADT = 400
 TRUCKS = 0%
 DESIGN SPEED = 30 MPH
 POSTED SPEED = 30 MPH (UNPOSTED)

I-290
FUNCTIONAL CLASSIFICATION
INTERSTATE
 2023 ADT = 205,000
 TRUCKS = 4.2%
 DESIGN SPEED = 60 MPH
 POSTED SPEED = 55 MPH

KEELER AVENUE:
 STA. 201+19.00 TO STA. 206+00.00

CONGRESS PARKWAY:
 STA. 501+86.79 TO STA. 504+13.97

HARRISON STREET:
 STA. 402+14.88 TO STA. 404+07.39



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

CHICAGO UTILITY ALERT NETWORK (DIGGER/CHICAGO 811)
 1-312-744-7000

MEADE ELECTRIC CO. DISTRICT ONE ELECTRICAL MAINTENANCE CONTRACTOR
 LOCATES IDOT ELECTRICAL EQUIPMENT AND UNDERGROUND CABLES
 1-773-287-7672

PROJECT MANAGER: PRAVEEN KAINI (847) 705-4237

CONTRACT NO. 62U41

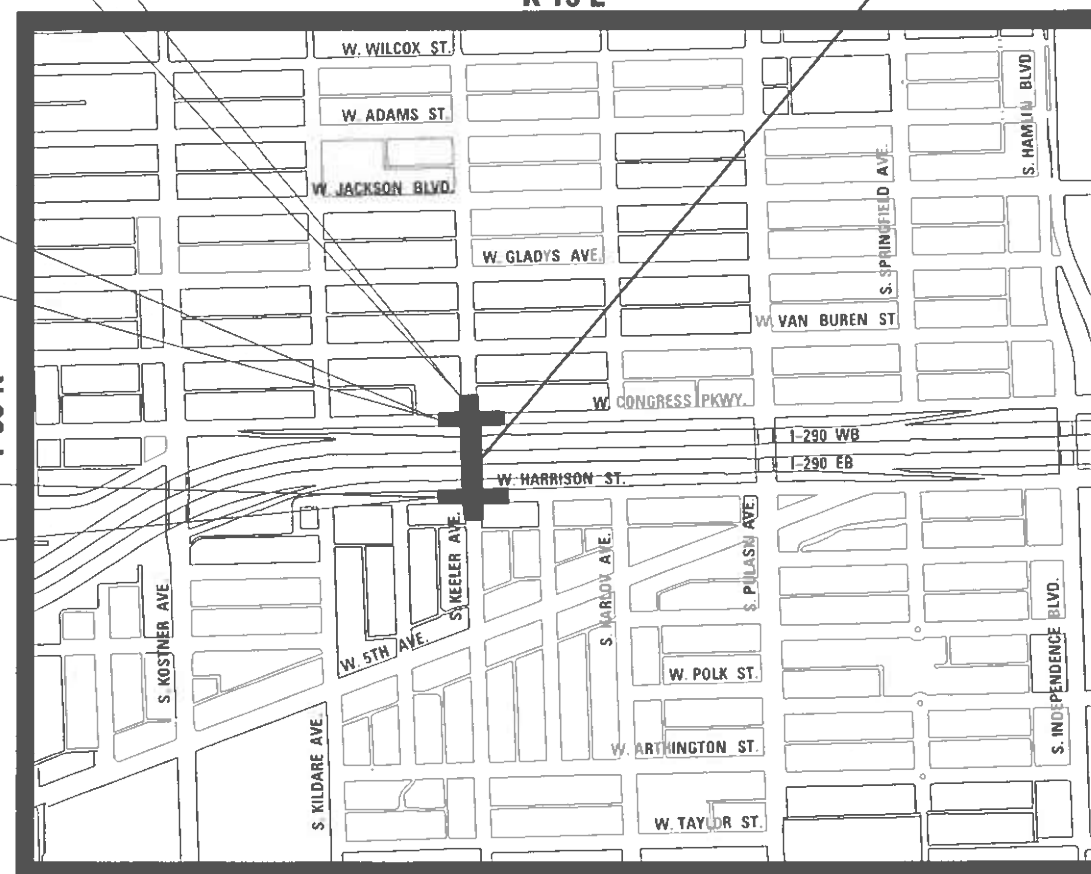
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PROPOSED HIGHWAY PLANS

FAI 290 (INTERSTATE 290)
AT KEELER AVENUE
SECTION FAI 290 22 KEELER BR
PROJECT NHPP-1XTC(478)
BRIDGE REPLACEMENT, RECONSTRUCTION,
LIGHTING, AND TRAFFIC SIGNALS
COOK COUNTY

C-91-056-23

R 13 E



LOCATION MAP
 NOT TO SCALE

GROSS LENGTH = 481.0 FT. = 0.091 MILE

NET LENGTH = 481.0 FT. = 0.091 MILE

* 286 + 6 = 292 TOTAL SHEET

FAI RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 KEELER BR	COOK	286	1
ILLINOIS CONTRACT NO. 62U41				
* 286 + 9 = 295 TOTAL SHEETS				

PROJECT LOCATED IN CITY OF CHICAGO

D-91-036-23



LOCATION OF SECTION INDICATED THUS: -

CIVILTECH

SINGH

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUBMITTED

Aug 11th 2025

Project 103 1R

REGIONAL ENGINEER

October 3 2025

ENGINEER OF DESIGN AND ENVIRONMENT

October 3 2025

DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

1 REVISED SHEET 10/22/2025

PRINTED BY THE AUTHORITY
 OF THE STATE OF ILLINOIS

REV-SEP

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ELECTRICAL - FOUNDATION FOR RESIDENTIAL LIGHT POLE WITH 10" BOLT CIRCLE/5' DEPTH	ELECTRICAL - ALUMINUM DAVIT ARM 6"x12'-0"
ELECTRICAL - STANDARD METHOD FOR BACKFILLING CABLE & CONDUIT TRENCHES	ELECTRICAL - ELBOW, CONDUIT, RIGID GALVANIZED STEEL, LARGE RADIUS
IN SODDED PARKWAY & LAWNS	ELECTRICAL - JUNCTION BOX FOR ARTERIAL STREET LIGHTING SERVICE ON C.E. CO. POLE
ELECTRICAL - FOUNDATION FOR TRAFFIC SIGNAL PEDESTAL	ELECTRICAL - ARTERIAL & RESIDENTIAL 240V SINGLE NODE WIRING DIAGRAM FOR COBRA
ELECTRICAL - 3'X4'X4' CONCRETE MANHOLE WITH 30" FRAME AND COVER	AND PIGGY BACK
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	DWM - DRAINAGE STRUCTURE DETAILS

1 REVISED SHEET 10/22/2025

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David J. Kreeger

DAVID J. KREEGER, P.E.
CIVILTECH ENGINEERING, INC.
LICENSE EXPIRES 11-30-2025
SHEET RANGE 1-32, 40-49, 65-95, 100-101, 208-244, 248-283



Joseph J. Emry

JOSEPH J. EMRY, P.E.
CIVILTECH ENGINEERING, INC.
LICENSE EXPIRES 11-30-2025
SHEET RANGE 102-118



Gregory J. Hatlestad

GREGORY J. HATLESTAD, P.E., S.E.
CZAPLICKI LOPEZ, PLLC
LICENSE EXPIRES 11-30-2026
SHEET RANGE 96-99, 145-207, 245-247



Parker A Foust

PARKER A. FOUST, P.E.
CZAPLICKI LOPEZ, PLLC
LICENSE EXPIRES 11-30-2025
SHEET RANGE 33-39



Nich Schilling

NICHOLAS J SCHILLING III, P.E.
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LICENSE EXPIRES 11-30-2025
SHEET RANGE 50-64



R.D. Patel

RASHESHKUMAR D. PATEL, P.E.
SINGH & ASSOCIATES, INC.
LICENSE EXPIRES 11-30-2025
SHEET RANGE 119-144



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PLOT DATE = 10/17/2025	DATE - 8/29/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-290 AT KEELER AVENUE
INDEX OF DRAWINGS AND STANDARDS

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FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 KEELER BR	COOK	283	2
CONTRACT NO. 62U41				
ILLINOIS FED. AID PROJECT				

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PLOT DATE = 8/15/2025	DATE - 8/13/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-290 AT KEELER AVENUE SUMMARY OF QUANTITIES

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 KEELER BR	COOK	283	5
		CONTRACT NO. 62U41		
ILLINOIS FED. AID PROJECT				

1 REVISED SHEET 10/21/2025

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	CHECKED - DJK	REVISED -
PLOT DATE = 8/15/2025	DATE - 8/13/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-290 AT KEELER AVENUE
SUMMARY OF QUANTITIES

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 KEELER BR	COOK	283	15
CONTRACT NO. 62U41				
ILLINOIS FED. AID PROJECT				

SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE					
					ROADWAY 0004	BRIDGE 0010	IDOT ITS AND SURVEILLANCE 0021	IDOT LIGHTING 0021	CDOT LIGHTING 0021	CDOT TRAFFIC SIGNALS 0021
					90% FED / 10% STATE	90% FED / 10% STATE	90% FED / 10% STATE	90% FED / 10% STATE	90% FED / 10% STATE	90% FED / 10% STATE
X	80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1					1	1
	81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	50			50			
X	81100320	CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL	FOOT	568				568		
	81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	50			50	1		
X	81100605	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL	FOOT	825			252	573		
X	81100805	CONDUIT ATTACHED TO STRUCTURE, 3" DIA., PVC COATED GALVANIZED STEEL	FOOT	32				32		
X	81101005	CONDUIT ATTACHED TO STRUCTURE, 4" DIA., PVC COATED GALVANIZED STEEL	FOOT	1990			990		1000	1
X	81200230	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	1092					1092	
X	81300220	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" X 6" X 4"	EACH	8				8		
X	81300530	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"	EACH	7				7		
X										
X	81300830	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 18" X 8"	EACH	18			6	1 6	6	
X	81603090	UNIT DUCT, 600V, 3-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	1263				1263		
X	81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	1249				1249		
X	81702130	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	687				687		
X	81702140	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	FOOT	2061				2061		
X	81702300	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 2-1/C NO. 4	FOOT	35						35

1 REVISED SHEET 10/21/2025

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PLOT DATE = 8/15/2025	DATE - 8/13/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-290 AT KEELER AVENUE
SUMMARY OF QUANTITIES

SHEET 16 OF 20 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 KEELER BR	COOK	283	20
CONTRACT NO. 62U41				
ILLINOIS FED. AID PROJECT				

SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE					
					ROADWAY 0004	BRIDGE 0010	IDOT ITS AND SURVEILLANCE 0021	IDOT LIGHTING 0021	CDOT LIGHTING 0021	CDOT TRAFFIC SIGNALS 0021
					90% FED / 10% STATE	90% FED / 10% STATE	90% FED / 10% STATE	90% FED / 10% STATE	90% FED / 10% STATE	90% FED / 10% STATE
	X5220008	TEMPORARY SOIL RETENTION SYSTEM (SPECIAL)	SQ FT	4665		4665				
	X5501108	STORM SEWER, TYPE 1, 8 INCH (VITRIFIED CLAY PIPE)	FOOT	5	5					
	X5620122	WATER SERVICE REMOVAL	EACH	5	5					
	X6022505	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID (CITY OF CHICAGO)	EACH	1	1					
	X6050040	REMOVING MANHOLES (SPECIAL)	EACH	5					1	4
	X6060045	COMBINATION CONCRETE CURB AND GUTTER, TYPE B V-.12 (CDOT)	FOOT	393	393					
	X6061311	CONCRETE MEDIAN SURFACE, 5 INCH	SQ FT	613	613					
	X6350110	DELINEATORS (SPECIAL)	EACH	190	190					
	X6350120	DELINEATOR REMOVAL	EACH	157	157					
	X6370048	CONCRETE BARRIER BASE (SPECIAL)	FOOT	89	89					
	X6370050	CONCRETE BARRIER WALL (SPECIAL)	FOOT	89	89					
	X6640525	CHAIN LINK FENCE, 4' ATTACHED TO STRUCTURE	FOOT	188		188				
	X6700410	ENGINEER'S FIELD OFFICE, TYPE A (SPECIAL)	CAL MO	24	24					
	X7010007	MAINTENANCE OF EXISTING TRAFFIC SURVEILLANCE	L SUM	1			1			
	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1					
	X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	1					
	X7013820	TRAFFIC CONTROL SURVEILLANCE, EXPRESSWAYS	CAL DA	548	548					



1 REVISED SHEET 10/22/2025

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SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE					
					ROADWAY 0004	BRIDGE 0010	IDOT ITS AND SURVEILLANCE 0021	IDOT LIGHTING 0021	CDOT LIGHTING 0021	CDOT TRAFFIC SIGNALS 0021
					90% FED / 10% STATE	90% FED / 10% STATE	90% FED / 10% STATE	90% FED / 10% STATE	90% FED / 10% STATE	90% FED / 10% STATE
	X7040010	TEMPORARY CONCRETE BARRIER (SPECIAL)	FOOT	25			25	1		
	X7200061	TEMPORARY INFORMATION SIGNING	SQ FT	170	170					
X	X7200105	SIGN PANEL - TYPE 1(SPECIAL)	SQ FT	125	125					
X	X7290002	INSTALL ROUND STEEL SIGN SUPPORT	FOOT	53	53					
X	X7370007	REMOVE CONCRETE FOUNDATION (ELECTRICAL)	EACH	3						3
X	X7800010	METHYL METHACRYLATE PAVEMENT COLORIZATION GREEN	SQ YD	452	452					
	X7830050	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL	EACH	288	288					
X	X7830052	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REPLACEMENT	EACH	288	288					
X	X8000003	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	24				24		
X	X8102845	UNDERGROUND CONDUIT, PVC, 4" DIA., SCHEDULE 80	FOOT	484					484	
X	X8130108	JUNCTION BOX, POLE OR POST MOUNTED	EACH	8						8
	X8130115	JUNCTION EXISTING JUNCTION BOX	EACH	2			2	1		
X	X8131168	JUNCTION BOX, NON-METALLIC, EMBEDDED IN STRUCTURE, 21" X 11" X 08"	EACH	4				4		
X	X8300100	LIGHT POLE, ALUMINUM, WITH MAST ARM, INSTALL ONLY	EACH	4					4	
X	X8301802	REMOVE TEMPORARY WOOD POLE	EACH	4				4		
X	X8302151	TEMPORARY WOOD POLE, 50 FT., CLASS 4	EACH	4				4		
X	X8362247	CONCRETE FOUNDATION, 24" DIAMETER, 1 1/4" ANCHOR RODS, 15" BOLT CIRCLE, 7 FEET	EACH	3						3

1 REVISED SHEET 10/22/2025



USER NAME = kdc

DESIGNED - KDC

REVISED -

DRAWN - KDC

REVISED -

CHECKED - DJK

REVISED -

PLOT DATE = 8/15/2025

DATE - 8/13/2025

REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-290 AT KEELER AVENUE
SUMMARY OF QUANTITIES

F.A.I
RTE.

SECTION

COUNTY

TOTAL
SHEETS

SHEET
NO.

290

FAI 290 22 KEELER BR

COOK

283

21

CONTRACT NO. 62U41

ILLINOIS | FED. AID PROJECT

SHEET 17 OF 20 SHEETS

REV-SEP

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USER NAME = kdc	DESIGNED - KDC	REVISED -
	DRAWN - KDC	REVISED -
	CHECKED - DJK	REVISED -
PLOT DATE = 8/15/2025	DATE - 8/13/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-290 AT KEELER AVENUE
SUMMARY OF QUANTITIES

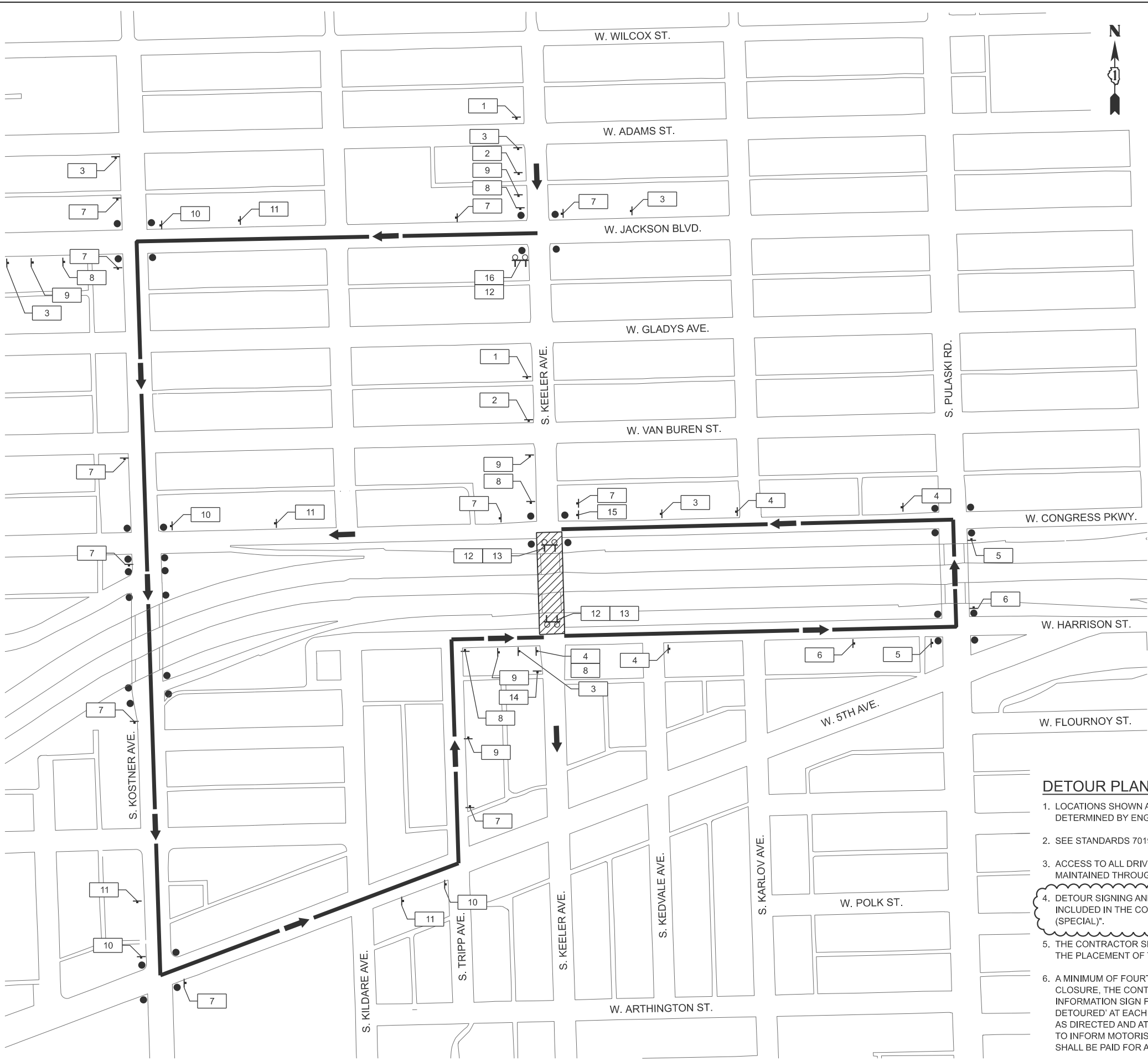
SHEET 18 OF 20 SHEETS

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 KEELER BR	COOK	283	21A
CONTRACT NO. 62U41				
ILLINOIS FED. AID PROJECT				

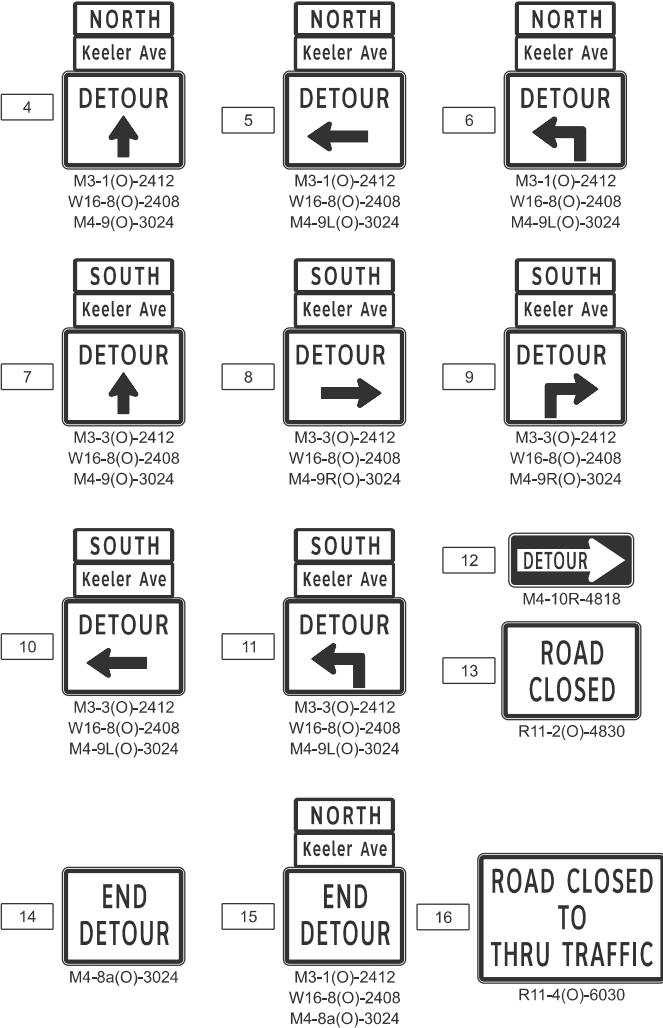
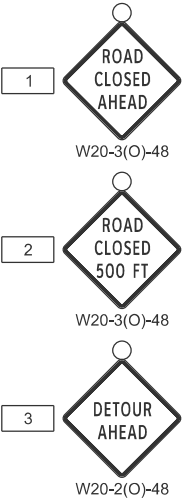
SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE					
					ROADWAY 0004	BRIDGE 0010	IDOT ITS AND SURVEILLANCE 0021	IDOT LIGHTING 0021	CDOT LIGHTING 0021	CDOT TRAFFIC SIGNALS 0021
					90% FED / 10% STATE	90% FED / 10% STATE	90% FED / 10% STATE	90% FED / 10% STATE	90% FED / 10% STATE	90% FED / 10% STATE
X	X8362249	CONCRETE FOUNDATION, 24" DIAMETER, 1 1/4" ANCHOR RODS, 15" BOLT CIRCLE, 9 FEET	EACH	3						3
X	X8400104	MAINTENANCE OF STREET LIGHTING SYSTEM (CITY OF CHICAGO)	L SUM	1					1	
X	X8420111	REMOVAL OF UNDERPASS LIGHTING UNIT, NO SALVAGE	EACH	8				8		
X	X8440124	REMOVE EXISTING STREET LIGHTING EQUIPMENT	EACH	1					1	
X	X8500104	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION (SPECIAL)	EACH	1						1
X	X8570015	CONTROLLER (SPECIAL)	EACH	1						1
X	X8570102	INTERSECTION TECHNOLOGY ENHANCEMENTS	EACH	1						1
	X8710023	FIBER OPTIC CABLE IN CONDUIT, 96 FIBERS, SINGLE MODE	FOOT	647			647	1		
X	X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8						8
	X8710059	FIBER OPTIC CABLE, AERIAL, 96 FIBERS, SINGLE MODE	FOOT	3121			3121	1		
X	X8774120	MAST ARM, STEEL, MONOTUBE 20 FT	EACH	1						1
	X8710306	FIBER OPTIC CABLE SPLICE - MAINLINE	FOOT	2			2	1		
X	X8774126	MAST ARM, STEEL, MONOTUBE 26 FT	EACH	2						2
	X8730246	ELECTRIC CABLE IN CONDUIT, NO. 19 25 PAIR	FOOT	1401			1401	1		
	X0326806	WASHOUT BASIN	L SUM	1	1					
	X8950510	REMOVE FIBER OPTIC CABLE FROM CONDUIT	FOOT	2941			2941	1		
	Z0004552	APPROACH SLAB REMOVAL	SQ YD	363	363					
*	Z0010614	CLEANING EXISTING MANHOLE OR HANDHOLE	EACH	2					2	
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1					
	Z0018911	DRILL AND GROUT #6 TIE BARS	EACH	168	168					

1 REVISED SHEET 10/22/2025

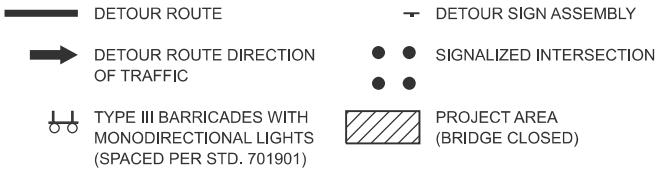
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SIGN LEGEND



SYMBOL LEGEND



1 REVISED SHEET 10/22/2025

DETOUR PLAN GENERAL NOTES

- 1. LOCATIONS SHOWN ARE APPROXIMATE. LOCATION TO BE DETERMINED BY ENGINEER TO BE BASED UPON FIELD CONDITIONS.
- 2. SEE STANDARDS 701901 AND TC-21 FOR ADDITIONAL INFORMATION.
- 3. ACCESS TO ALL DRIVEWAYS WITHIN THE PROJECT LIMITS WILL BE MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION
- 4. DETOUR SIGNING AND BARRICADES SHALL BE CONSIDERED INCLUDED IN THE COST FOR "TRAFFIC CONTROL AND PROTECTION (SPECIAL)".
- 5. THE CONTRACTOR SHALL NOT OBSTRUCT ANY EXISTING SIGN WITH THE PLACEMENT OF THE DETOUR SIGNAGE.
- 6. A MINIMUM OF FOURTEEN (14) DAYS IN ADVANCE OF THE BRIDGE CLOSURE, THE CONTRACTOR SHALL PLACE ONE 'ARTERIAL ROAD INFORMATION SIGN FOR ROADS TO BE FULL CLOSED AND DETOURED' AT EACH END OF THE PROJECT ALONG KEELER AVENUE AS DIRECTED AND AT A LOCATION DESIGNATED BY THE ENGINEER TO INFORM MOTORISTS OF THE UPCOMING CLOSURE. THIS WORK SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

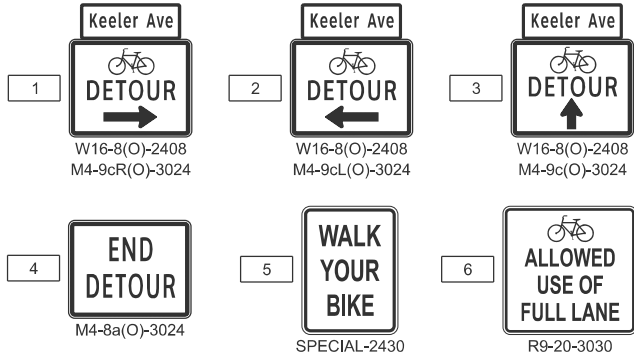
DETOUR DESCRIPTION

- 1. SOUTHBOUND TRAFFIC IS DIVERTED TO W JACKSON BOULEVARD AT THE INTERSECTION OF S KEELER AVENUE AND W JACKSON BOULEVARD. THE DIVERTED TRAFFIC CONTINUES WESTBOUND ON W JACKSON BOULEVARD TO S KOSTNER AVENUE, SOUTHBOUND ON S KOSTNER AVENUE TO W 5TH AVENUE, THEN NORTHEAST BOUND ON W 5TH AVENUE TO S TRIPP AVENUE. THE TRAFFIC CONTINUES NORTHBOUND ALONG S TRIPP AVENUE TO W HARRISON STREET, AND EASTBOUND BACK TO INTERSECTION OF W HARRISON STREET AND S KEELER AVENUE.
- 2. NORTHBOUND KEELER AVENUE BRIDGE TRAFFIC (FROM HARRISON STREET) IS DIVERTED TO W HARRISON STREET AT THE INTERSECTION OF S KEELER AVENUE AND W HARRISON STREET. THE DIVERTED TRAFFIC CONTINUES EASTBOUND ALONG W HARRISON STREET TO S PULASKI ROAD, NORTHBOUND TO W CONGRESS PARKWAY, THEN WESTBOUND ALONG W CONGRESS PARKWAY BACK TO THE INTERSECTION OF W CONGRESS PARKWAY AND S KEELER AVENUE.

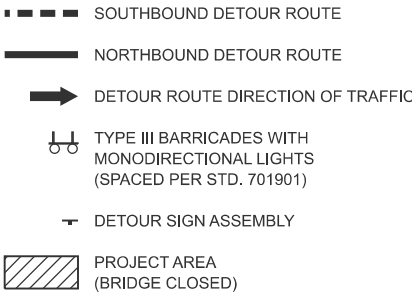
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SIGN LEGEND

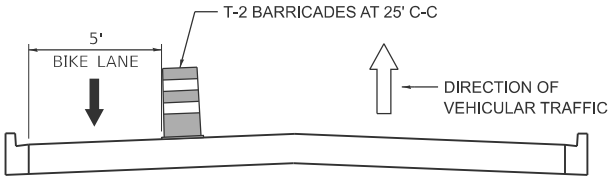


SYMBOL LEGEND



NOTE

1. THE CONTRACTOR SHALL INSTALL A TEMPORARY RAMP IN ACCORDANCE WITH THE SPECIAL PROVISION FOR "TEMPORARY SIDEWALK RAMP" WHERE THE EXISTING CURB IS RAISED.
2. SEE TYPICAL SECTION BELOW FOR WESTBOUND BICYCLE DETOUR ON HARRISON STREET.



HARRISON STREET
LOOKING EAST

DETOUR PLAN GENERAL NOTES

1. LOCATIONS SHOWN ARE APPROXIMATE. LOCATION TO BE DETERMINED BY ENGINEER TO BE BASED UPON FIELD CONDITIONS.
2. DETOUR SIGNING AND BARRICADES SHALL BE CONSIDERED INCLUDED IN THE COST FOR "TRAFFIC CONTROL AND PROTECTION (SPECIAL)".
3. THE CONTRACTOR SHALL NOT OBSTRUCT ANY EXISTING SIGN WITH THE PLACEMENT OF THE DETOUR SIGNAGE.

1 REVISED SHEET 10/22/2025



CZAPLICKI LOPEZ, PLLC
201 KENMARE DRIVE
BURR RIDGE, ILLINOIS 60527
630-915-8861
DESIGN FIRM NO: 184,008135

USER NAME = JFG
PLOT DATE = 10/9/2025

DESIGNED - PAF
DRAWN - SVJ
CHECKED - NJS
DATE - 10/13/2025

REVISED - 10/11/2025
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-290 AT KEELER AVENUE
BICYCLE DETOUR PLAN - KEELER AVENUE

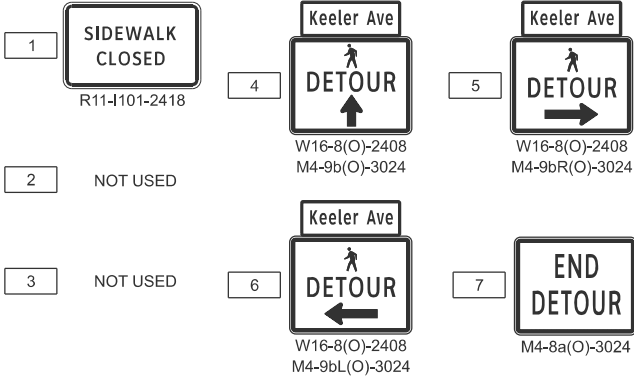
SCALE: N.T.S. SHEET 3 OF 16 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 KEELER BR	COOK	283	52
CONTRACT NO. 62U41				
ILLINOIS FED. AID PROJECT				

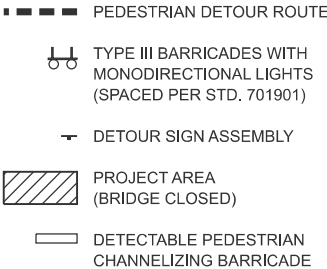
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SIGN LEGEND



SYMBOL LEGEND



DETOUR PLAN GENERAL NOTES

1. LOCATIONS SHOWN ARE APPROXIMATE. LOCATION TO BE DETERMINED BY ENGINEER TO BE BASED UPON FIELD CONDITIONS.
2. DETOUR SIGNING AND BARRICADES SHALL BE CONSIDERED INCLUDED IN THE COST FOR "TRAFFIC CONTROL AND PROTECTION (SPECIAL)".
3. THE CONTRACTOR SHALL NOT OBSTRUCT ANY EXISTING SIGN WITH THE PLACEMENT OF THE DETOUR SIGNAGE.

1 REVISED SHEET 10/22/2025

CZAPLICKI LOPEZ, PLLC
201 KENMARE DRIVE
BURR RIDGE, ILLINOIS 60527
630-915-8861
CZAPLICKI LOPEZ
DESIGN FIRM NO: 184,008135

USER NAME	= kdc	DESIGNED	- PAF	REVISED	- 10/11/2025
		DRAWN	- SVJ	REVISED	-
		CHECKED	- NJS	REVISED	-
PLOT DATE	= 8/27/2025	DATE	- 10/13/2025	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-290 AT KEELER AVENUE
PEDESTRIAN DETOUR PLAN - KEELER AVENUE

SCALE: N.T.S. SHEET 4 OF 16 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 KEELER BR	COOK	283	53
CONTRACT NO. 62U41				
ILLINOIS FED. AID PROJECT				

MODEL: ADA Harrison_1 [Sheet]
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LEGEND



DETECTABLE WARNINGS (SPECIAL)



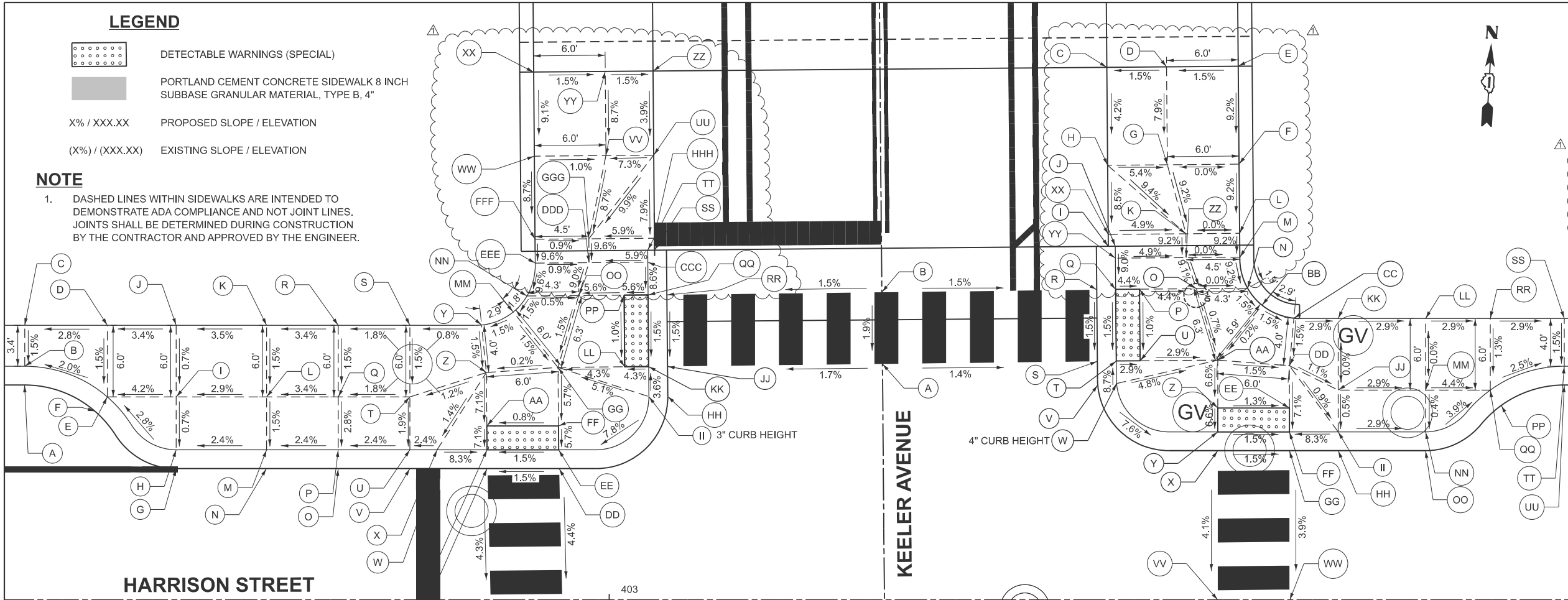
PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH
SUBBASE GRANULAR MATERIAL, TYPE B, 4"

X% / XXX.XX PROPOSED SLOPE / ELEVATION

(X%) / (XXX.XX) EXISTING SLOPE / ELEVATION

NOTE

- DASHED LINES WITHIN SIDEWALKS ARE INTENDED TO DEMONSTRATE ADA COMPLIANCE AND NOT JOINT LINES. JOINTS SHALL BE DETERMINED DURING CONSTRUCTION BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.



HARRISON STREET

KEELER AVENUE

NW CORNER OF KEELER AVENUE AND HARRISON STREET				EDGE OF PAVEMENT ELEVATION
	STATION	OFFSET	ELEVATION	
A	402+51.05	18.00' LT	602.53	
B	402+51.05	19.58' LT	602.97	
C	402+51.05	23.00' LT	603.02	
D	402+57.97	23.00' LT	603.21	
E	402+57.97	17.00' LT	603.12	
F	402+56.94	15.81' LT	602.68	
G	402+63.74	11.00' LT	602.89	
H	402+63.74	12.58' LT	603.33	
I	402+63.74	17.00' LT	603.37	
J	402+63.74	23.00' LT	603.41	
K	402+71.31	23.00' LT	603.67	
L	402+71.31	17.00' LT	603.58	
M	402+71.31	12.58' LT	603.52	
N	402+71.31	11.00' LT	603.08	
O	402+77.31	11.00' LT	603.22	
P	402+77.31	12.58' LT	603.66	
Q	402+77.31	17.00' LT	603.79	
R	402+77.31	23.00' LT	603.88	
S	402+83.31	23.00' LT	603.99	
T	402+83.31	17.00' LT	603.90	
U	402+83.31	12.58' LT	603.81	
V	402+83.31	11.00' LT	603.37	
W	402+85.58	11.00' LT	603.42	
X	402+85.58	12.58' LT	604.86	
Y	402+89.31	23.03' LT	604.04	
Z	402+89.71	19.06' LT	603.98	
AA	402+89.77	14.58' LT	603.66	
BB	402+89.77	12.58' LT	603.51	
CC	402+89.77	11.00' LT	603.52	
DD	402+95.81	11.00' LT	603.61	

FF	402+95.75	14.58' LT	603.71	
GG	402+95.71	19.48' LT	603.99	
HH	202+28.06	18.00' LT	604.21	
II	202+28.06	19.58' LT	604.40	
JJ	202+30.56	18.00' LT	604.32	
KK	202+30.56	19.58' LT	604.31	
LL	202+30.56	21.58' LT	604.23	
MM	202+35.23	30.89' LT	604.08	
NN	202+36.57	29.71' LT	604.10	
OO	202+36.56	25.38' LT	604.08	
PP	202+36.56	21.58' LT	604.29	

QQ	202+36.56	19.58' LT	604.40	
RR	202+36.56	18.00' LT	604.41	
SS	202+40.31	19.00' LT	604.70	
TT	202+40.31	19.58' LT	604.70	
UU	202+48.27	19.00' LT	605.40	604.90
VV	202+48.27	23.00' LT	605.12	

WW	202+48.27	29.00' LT	605.18	
XX	202+55.32	29.00' LT	605.82	
YY	202+55.32	23.00' LT	605.73	
ZZ	202+55.32	19.00' LT	605.67	605.17
AAA	402+90.06	0.00' LT	603.05	
BBB	402+96.06	0.00' LT	603.13	

CCC	202+39.31	19.58' LT	604.63	
DDD	202+39.31	24.50' LT	604.34	
EEE	202+39.31	29.00' LT	604.38	
FFF	202+41.31	29.00' LT	604.57	
GGG	202+41.31	24.50' LT	604.53	
HHH	202+41.31	19.00' LT	604.85	604.61

NE CORNER OF KEELER AVENUE AND HARRISON STREET				EDGE OF PAVEMENT ELEVATION
	STATION	OFFSET	ELEVATION	
A	202+30.62	0.00' RT	604.57	
B	202+36.62	0.00' RT	604.69	
C	202+55.31	19.00' RT	605.67	605.17
D	202+55.31	24.00' RT	605.75	
E	202+55.31	30.00' RT	605.84	
F	202+47.10	30.00' RT	605.10	
G	202+47.10	24.00' RT	605.10	
H	202+47.10	19.00' RT	605.36	604.86
I	202+40.31	19.00' RT	604.74	
J	202+40.31	19.58' RT	604.74	
K	202+41.31	25.50' RT	604.55	
L	202+41.31	30.00' RT	604.55	
M	202+39.31	30.00' RT	604.36	
N	202+36.70	30.63' RT	604.11	
O	202+36.70	26.33' RT	604.11	
P	202+36.70	21.58' RT	604.32	
Q	202+36.70	19.58' RT	604.41	
R	202+36.70	18.00' RT	604.42	
S	202+36.70	18.00' RT	604.33	
T	202+30.70	19.58' RT	604.32	
U	202+30.70	21.58' RT	604.26	
V	202+28.70	18.02' RT	604.22	
W	202+28.82	19.59' RT	604.49	
X	403+50.96	12.50' LT	603.69	
Y	403+50.96	14.08' LT	603.68	
Z	403+50.96	16.08' LT	603.81	
AA	403+50.96	20.09' LT	604.07	
BB	403+54.66	24.69' LT	604.09	
CC	403+57.33	23.60' LT	604.04	
DD	403+56.96	19.62' LT	603.98	
EE	403+56.96	16.08' LT	603.73	
FF	403+56.96	14.08' LT	603.59	
GG	403+56.96	12.50' LT	603.60	
HH	403+61.04	12.50' LT	603.48	
II	403+61.04	14.08' LT	603.92	
JJ	403+61.04	17.58' LT	603.93	
KK	403+61.04	23.58' LT	603.93	
LL	403+68.36	23.58' LT	603.72	
MM	403+68.36	17.58' LT	603.72	
NN	403+68.36	14.08' LT	603.71	
OO	403+68.36	12.50' LT	603.27	
PP	403+74.70	16.30' LT	603.04	
QQ	403+73.78	17.58' LT	603.48	
RR	403+73.78	23.58' LT	603.56	
SS	403+79.97	23.58' LT	603.38	
TT	403+79.97	19.58' LT	603.32	
UU	403+79.97	18.00' LT	602.88	
VV	403+50.96	0.00' LT	603.18	
WW	403+56.96	0.00' LT	603.11	
XX	202+41.31	19.00' LT	604.86	604.61
YY	202+39.31	19.58' LT	604.65	
ZZ	202+39.31	25.50' LT	604.36	

ISLAND AT KEELER AVENUE AND HARRISON STREET				TOP OF CURB ELEVATION
	STATION	OFFSET	ELEVATION	
A	201+87.20	2.30' RT	603.01	
B	201+79.20	2.30' RT	602.85	
C	201+79.20	2.88' RT	602.98	602.98
D	201+87.20	2.88' RT	603.14	603.14
E	201+87.20	4.88' RT	603.06	603.56
F	201+79.20	4.88' RT	602.94	603.44
G	201+79.20	13.22' RT	602.62	603.12
H	201+87.20	13.22' RT	602.74	603.24
I	201+87.20	15.22' RT	602.66	602.66
J	201+79.20	15.22' RT	602.53	602.61
K	201+79.20	15.80' RT	602.40	
L	201+87.20	15.80' RT	602.53	



USER NAME = JFG

DESIGNED - KDC

REVISED - 10/11/2025

PLOT DATE = 10/1/2025

CHECKED - DJK

REVISED -

DATE = 8/29/2025

REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-290 AT KEELER AVENUE
ADA GRADING PLAN

SCALE: 1"=5'

SHEET 1 OF 2 SHEETS

FAI RTE.

SECTION

COUNTY

TOTAL SHEETS

290

FAI 290 22 KEELER BR

COOK

283

CONTRACT NO. 62U41

ILLINOIS FED. AID PROJECT
REVISED SHEET 10/22/2025

MODEL: ADA Congress 1 [Sheet]
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USER NAME	= JFG
DESIGNED	- KDC
DRAWN	- KDC
CHECKED	- DJK
DATE	- 8/29/2025
PLOT DATE	= 10/1/2025

REVISED	- 10/1/2025
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-290 AT KEELER AVENUE
ADA GRADING PLAN

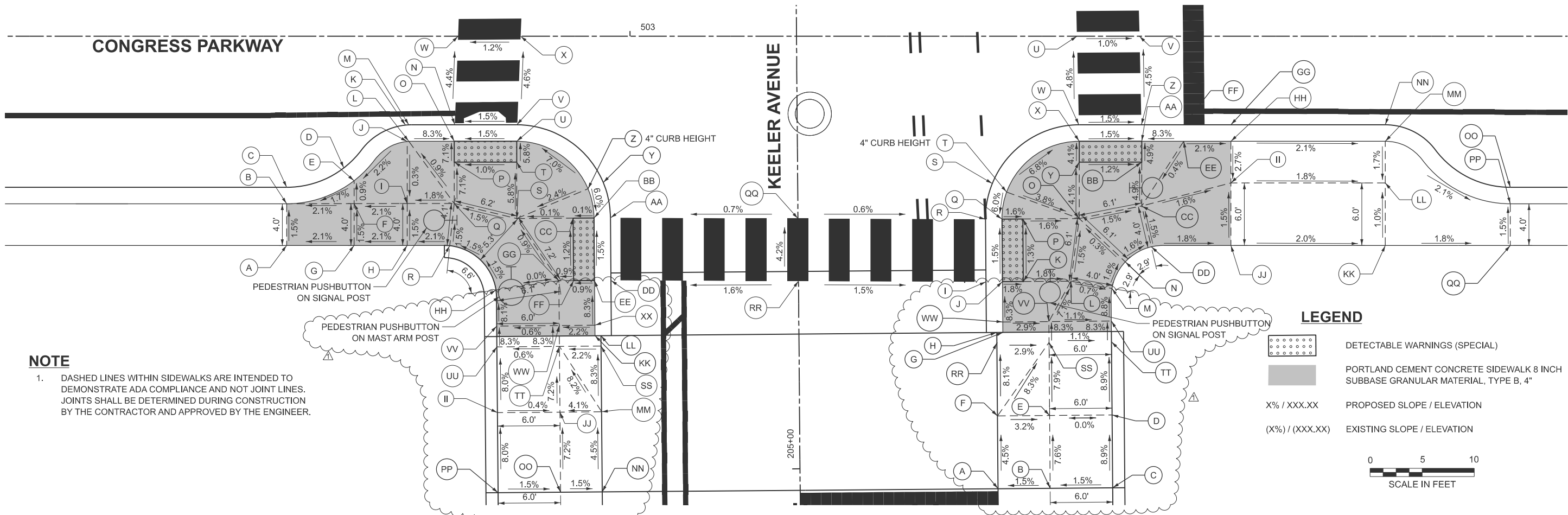
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F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 KEELER BR	COOK	283	80
CONTRACT NO. 62U41				
ILLINOIS FED. AID PROJECT				

REVISD SHEET 10/22/2025

NOTE

- DASHED LINES WITHIN SIDEWALKS ARE INTENDED TO DEMONSTRATE ADA COMPLIANCE AND NOT JOINT LINES. JOINTS SHALL BE DETERMINED DURING CONSTRUCTION BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.



SW CORNER OF KEELER AVENUE AND CONGRESS PARKWAY				EDGE OF PAVEMENT ELEVATION
	STATION	OFFSET	ELEVATION	
A	502+67.03	20.08' RT	603.79	
B	502+67.03	16.08' RT	603.73	
C	502+67.03	14.50' RT	603.29	
D	502+72.52	12.64' RT	603.41	
E	502+73.51	13.87' RT	603.85	
F	502+73.51	16.08' RT	603.87	
G	502+73.51	20.08' RT	603.93	
H	502+78.60	20.08' RT	604.04	
I	502+78.60	16.06' RT	603.98	
J	502+78.60	10.10' RT	603.99	
K	502+78.43	8.53' RT	603.55	
L	502+78.75	10.09' RT	603.99	
M	502+78.75	8.51' RT	603.55	
N	502+83.17	8.50' RT	603.64	
O	502+83.11	10.08' RT	603.63	
P	502+83.11	12.08' RT	603.78	
Q	502+83.11	16.05' RT	604.06	
R	502+82.69	20.11' RT	604.12	
S	502+89.11	17.50' RT	604.15	
T	502+89.11	12.08' RT	603.84	
U	502+89.11	10.08' RT	603.72	
V	502+89.11	8.50' RT	603.73	
W	502+83.50	0.00' RT	603.27	
X	502+89.50	0.00' RT	603.34	
Y	205+27.63	18.67' LT	604.06	
Z	205+27.04	20.13' LT	604.33	

SW CORNER OF KEELER AVENUE AND CONGRESS PARKWAY				EDGE OF PAVEMENT ELEVATION
	STATION	OFFSET	ELEVATION	
AA	205+24.26	18.00' LT	604.17	
BB	205+24.24	19.58' LT	604.16	
CC	205+24.24	21.58' LT	604.16	
DD	205+18.24	18.00' LT	604.26	
EE	205+18.24	19.58' LT	604.25	
FF	205+18.24	21.58' LT	604.23	
GG	205+18.24	23.00' LT	604.22	
HH	205+17.40	29.05' LT	604.22	
II	205+05.63	29.00' LT	605.17	
JJ	205+05.63	23.00' LT	605.15	
KK	205+12.94	19.58' LT	604.69	
LL	205+12.94	19.00' LT	604.69	
MM	205+05.63	19.00' LT	605.31	604.81
NN	204+97.94	19.00' LT	605.64	605.14
OO	204+97.94	23.00' LT	605.70	
PP	204+97.94	29.00' LT	605.79	
QQ	205+24.02	0.00' LT	604.29	
RR	205+18.02	0.00' LT	604.54	
SS	205+11.94	19.00' LT	604.78	604.53
TT	205+11.94	23.00' LT	604.70	
UU	205+11.94	29.00' LT	604.67	
VV	205+13.94	29.00' LT	604.50	
WW	205+13.94	23.00' LT	604.53	
XX	205+13.94	19.58' LT	604.23	

SE CORNER OF KEELER AVENUE AND CONGRESS PARKWAY				EDGE OF PAVEMENT ELEVATION
	STATION	OFFSET	ELEVATION	
A	204+97.94	19.00' RT	605.64	605.14
B	204+97.94	24.00' RT	605.72	
C	204+97.94	30.00' RT	605.81	
D	205+04.93	30.00' RT	605.19	
E	205+04.93	24.00' RT	605.19	
F	205+04.93	19.00' RT	605.34	604.84
G	205+12.94	19.58' RT	604.67	
H	205+12.94	16.00' RT	604.67	
I	205+17.80	18.00' RT	604.28	
J	205+17.80	19.58' RT	604.27	
K	205+17.80	21.58' RT	604.23	
L	205+17.80	26.15' RT	604.15	
M	205+17.07	30.08' RT	604.12	
N	205+19.61	31.39' RT	604.07	
O	205+23.80	27.00' RT	604.06	
P	205+23.80	21.58' RT	604.15	
Q	205+23.80	19.58' RT	604.18	
R	205+23.80	18.00' RT	604.19	
S	205+27.24	18.68' RT	604.07	
T	205+26.40	20.05' RT	604.34	
U	503+42.90	0.00' RT	603.35	
V	503+48.90	0.00' RT	603.29	
W	503+43.08	8.50' RT	603.76	
X	503+43.12	10.08' RT	603.75	
Y	503+43.12	12.08' RT	603.83	
Z	503+49.08	8.50' RT	603.67	

SE CORNER OF KEELER AVENUE AND CONGRESS PARKWAY				EDGE OF PAVEMENT ELEVATION
	STATION	OFFSET	ELEVATION	
AA	503+49.12	10.08' RT	603.66	
BB	503+49.12	12.08' RT	603.76	
CC	503+49.12	16.32' RT	603.97	
DD	503+50.04	20.21' RT	604.03	
EE	503+53.15	10.08' RT	604.00	
FF	503+53.15	8.50' RT	603.56	
GG	503+57.68	8.50' RT	603.50	
HH	503+57.68	10.08' RT	603.94	
II	503+57.68	14.08' RT	603.83	
JJ	503+57.68	20.08' RT	603.92	
KK	503+72.50	20.08' RT	603.62	
LL	503+72.50	14.08' RT	603.56	
MM	503+72.50	10.08' RT	603.63	
NN	503+72.50	8.50' RT	603.19	
OO	503+84.50	14.50' RT	602.90	
PP	503+84.50	16.08' RT	603.34	
QQ	503+84.50	20.08' RT	603.41	
RR	205+11.94	19.00' RT	604.77	604.52
SS	205+11.94	24.00' RT	604.63	
TT	205+11.94	30.00' RT	604.56	
UU	205+13.94	30.00' RT	604.40	
VV	205+13.94	24.00' RT	604.46	
WW	205+13.94	19.58' RT	604.59	

MODEL: Lighting (Sheet)
FILE NAME: c:\bms\stl\lch-pw\kyle.dary\ld108545\ld162u41-shl-light 01.dgn

LIGHTING AND ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
	EXISTING LIGHT POLE TO REMAIN
	EXISTING UNDERPASS LUMINAIRE TO BE REMOVED, NO SALVAGE
	EXISTING JUNCTION BOX TO REMAIN
	EXISTING JUNCTION BOX TO BE REMOVED
	EXISTING LIGHTING CONTROLLER TO REMAIN
	PROPOSED UNDERPASS LED LUMINAIRE, SUSPENDED MOUNT, OUTPUT DESIGNATION E, 10,500 MINIMUM LUMENS
	TEMPORARY WOOD POLE, 50 FT., CLASS 4
	EXISTING WOOD POLE
	EXISTING CONDUIT TO BE REMOVED
	EXISTING UNIT DUCT TO REMAIN
	EXISTING CONDUIT IN STRUCTURE TO REMAIN
	PROPOSED CONDUIT, TYPE AND SIZE AS NOTED
	PROPOSED UNIT DUCT, TYPE AND SIZE AS NOTED
	TEMPORARY AERIAL LIGHTING CABLE WITH MESSENGER WIRE, TYPE AND SIZE AS NOTED

ABBREVIATIONS	
ABBREVIATION	DESCRIPTION
AC	ALTERNATING CURRENT
A/C	AERIAL CABLE
ATS	ATTACHED TO STRUCTURE
B.O.C.	BACK OF CURB
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CM	CENTIMETER
COMED	COMMONWEALTH EDISON COMPANY
CP	CONTROL PANEL
CT	CURRENT TRANSFORMER
DA	DAVIT ARM
DC	DIRECT CURRENT
DIA	DIAMETER
DP	DISTRIBUTION PANEL
E	EXISTING UNIT TO REMAIN
EX.	EXISTING
ECA	ELECTRIC CABLE ASSEMBLY
EIS	EMBEDDED IN STRUCTURE
E.O.P.	EDGE OF PAVEMENT
F.O.C.	FACE OF CURB
FT	FEET OR FOOT
FU	FUSE
GND	GROUND
HID	HIGH INTENSITY DISCHARGE
JB	JUNCTION BOX
KVA	KILOVOLT-AMPERE
KW	KILOWATTS
LED	LIGHT EMITTING DIODE
LP	LIGHT POLE
M	METER
MA	MAST ARM
MC	MULTI-CONDUCTOR
MM	MILLIMETER
M.H.	MOUNTING HEIGHT
MW	MESSENGER WIRE
NESC	NATIONAL ELECRIC SAFETY CODE
NO. #	NUMBER
N.T.S.	NOT TO SCALE
P	PROPOSED
PB	PUSH BUTTON
PNL	PANEL
PVC	POLYVINYL CHLORIDE
PVCC RGC	PVC COATED RIGID GALVANIZED CONDUIT
PT	POTENTIAL TRANSFORMER
R	EXISTING UNIT TO BE REMOVED (OWNER SALVAGED U.N.O.)
RR	EXISTING UNIT TO BE REMOVED AND REINSTALLED
RECP	RECEPTACLE
RGC	RIGID GALVANIZED CONDUIT
ROW	RIGHT OF WAY
SEL SW	SELECTOR SWITCH
SPARE	SPARE
SPACE	SPACE
SS	STAINLESS STEEL
STA	STATION
T/F	TOP OF FOUNDATION
UD	UNIT DUCT
U.N.O.	UNLESS NOTED OTHERWISE
UGC, GS	UNDERGROUND CONDUCT, GALVANIZED STEEL
VAC	VOLTS. ALTERNATING CURRENT
W	WATTS
WP	WOOD POLE
XFMR	TRANSFORMER
HPS	HIGH PRESSURE SODIUM
LPS	LOW PRESSURE SODIUM
LTFM	LIQUID TIGHT FLEXIBLE METALLIC

GENERAL NOTES

- THE ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST CODES, STANDARDS AND THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION), AND SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS.
- THE CONTRACTOR SHALL CONTACT MEADE ELECTRIC CO. DISTRICT ONE ELECTRICAL MAINTENANCE CONTRACTOR TO LOCATE IDOT ELECTRICAL EQUIPMENT AND UNDERGROUND CABLES 773-287-7672.
- THE CONTRACTOR SHALL SUBMIT CDOT EQUIPMENT CATALOG CUTS TO:
CDOT
2 N. LASALLE ST., SUITE 1110
CHICAGO, IL 60602
CALL (312) 744-3600 TO COORDINATE

IDOT INDEX OF DRAWINGS

DRAWING NO.	TITLE
LT-01	IDOT LIGHTING LEGEND, ABBREVIATIONS AND GENERAL NOTES
LT-02	IDOT UNDERPASS LIGHTING STAGE 1 - TEMPORARY AND REMOVAL PLAN I-290 UNDER S KEELER AVE
LT-03	IDOT UNDERPASS LIGHTING STAGE 2 - TEMPORARY AND REMOVAL PLAN I-290 UNDER S KEELER AVE
LT-04	IDOT UNDERPASS LIGHTING PROPOSED PLAN I-290 UNDER S KEELER AVE
LT-05	MODIFIED IDOT LIGHTING CONTROLLER "J" WIRING DIAGRAM
LT-06 THRU -10	IDOT STANDARD DETAILS

IDOT-D1 STANDARDS:

STANDARD NO.	TITLE
BE-702	MISC. ELECTRICAL DETAILS SHEET A
BE-703	MISC. ELECTRICAL DETAILS SHEET B
BE-800	TEMPORARY LIGHT POLE DETAILS
BE-801	TEMPORARY AERIAL CABLE INSTALLATION
BE-901	SUSPENDED MOUNT LED UNDERPASS LUMINAIRE INSTALLATION DETAILS

CDOT INDEX OF DRAWINGS

DRAWING NO.	TITLE
LT-11	CDOT STANDARD 826 LEGEND/SYMBOLS
LT-12	CDOT ELECTRICAL GENERAL NOTES
LT-13	PULASKI ROAD OVER I-290 UNDERGROUND CONDUIT FACILITIES PLAN
LT-14	PULASKI ROAD OVER I-290 LIGHTING REMOVAL AND INSTALLATION PLAN
LT-15	UNDERGROUND CONDUIT PROFILE VIEWS
LT-16	MISCELLANEOUS ELECTRICAL DETAILS
LT-17 THRU -24	CDOT ELECTRICAL STANDARD DETAILS
LT-25 THRU -26	CDOT ELECTRICAL RECORD DRAWINGS

BILL OF MATERIALS

ITEM NO.	DESCRIPTION	UNIT	IDOT	CDOT	TOTAL
81100320	CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL	FOOT	568	-	568
81100605	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL	FOOT	573	-	573
81100805	CONDUIT ATTACHED TO STRUCTURE, 3" DIA., PVC COATED GALVANIZED STEEL	FOOT	32	-	32
81101005	CONDUIT ATTACHED TO STRUCTURE, 4" DIA., PVC COATED GALVANIZED STEEL	FOOT	-	1000	1000
81200230	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	-	1092	1092
81300220	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" X 6" X 4"	EACH	8	-	8
81300530	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"	EACH	7	-	7
81300830	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 18" X 8"	EACH	6	6	12
81603090	UNIT DUCT, 600V, 3-1/C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	1263	-	1263
81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	1249	-	1249
81702130	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	687	-	687
81702140	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	FOOT	2061	-	2061
81800320	AERIAL CABLE, 3-1/C NO. 4 WITH MESSENGER WIRE	FOOT	744	-	744
82110027	LUMINAIRE, LED, UNDERPASS, SUSPENDED, OUTPUT DESIGNATION E	EACH	8		8
89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	-	495	495
X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	210	360	570
X0324900	SERVICE CONNECTION TO CECO LINE	EACH	-	1	1
X0326326	CABLE IN CONDUIT, TRIPLEX, 2-1/C NO. 6 AND 1-1/C NO. 8 GROUND	FOOT	-	1205	1205
X1400202	LUMINAIRE (SPECIAL)	EACH	-	10	10
X1700001	DRILL EXISTING MANHOLE, HEAVY DUTY HANDHOLE, OR MEDIAN WALL JUNCTION BOX	EACH	-	4	4
X2080251	TRENCH BACKFILL WITH SCREENINGS	FOOT	-	212	212
X6050040	REMOVING MANHOLES (SPECIAL)	EACH	-	1	1
X8000003	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	24	-	24
X8102845	UNDERGROUND CONDUIT, PVC, 4" DIA., SCHEDULE 80	FOOT	-	484	484
X8131168	JUNCTION BOX, NONMETALLIC, EMBEDDED IN STRUCTURE, 21" X 11" X 08"	EACH	4	-	4
X8300100	LIGHT POLE, ALUMINUM, WITH MAST ARM, INSTALL ONLY	EACH	-	4	4
X8301802	REMOVE TEMPORARY WOOD POLE	EACH	4	-	4
X8302151	TEMPORARY WOOD POLE, 50 FT., CLASS 4	EACH	4	-	4
X8400104	MAINTENANCE OF STREET LIGHTING SYSTEM (CITY OF CHICAGO)	L SUM	-	1	1
X8420111	REMOVAL OF UNDERPASS LIGHTING UNIT, NO SALVAGE	EACH	8	-	8
X8440124	REMOVE EXISTING STREET LIGHTING EQUIPMENT	L SUM	-	1	1
Z0010614	CLEANING EXISTING MANHOLE OR HANDHOLE	EACH	-	2	2
	CONDUIT IN TRENCH, PVC (SCHEDULE 80), 2" DIA.	FOOT	-	300	300
	LUMINAIRE NODE, EXTERNAL	EACH	-	10	10
	MAST ARM, STREET LIGHTING, STEEL, 12 FOOT	EACH	-	6	6

REVISED SHEET 10/23/2025

LT-01

SINGH
SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

USER NAME = nsotto	DESIGNED - VN	REVISED - 10/1/2025
	DRAWN - VN	REVISED -
	CHECKED - RP	REVISED -
PLOT DATE = 10/22/2025	DATE - 08/13/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IDOT LIGHTING LEGEND, ABBREVIATION AND GENERAL NOTES

SCALE: SHEET 1 OF 26 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 KEELER BR	COOK	283	119
CONTRACT NO. 62U41				
		ILLINOIS	FED. AID PROJECT	

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SINGH
SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

USER NAME = nsotto
DESIGNED - VN
DRAWN - VN
CHECKED - RP
PLOT DATE = 10/6/2025

DESIGNED - VN
DRAWN - VN
CHECKED - RP
DATE - 08/13/2025

REVISED - 10/1/2025
REVISED -
REVISED -
REVISED -

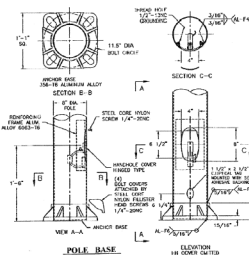
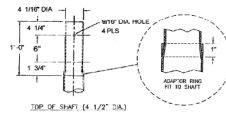
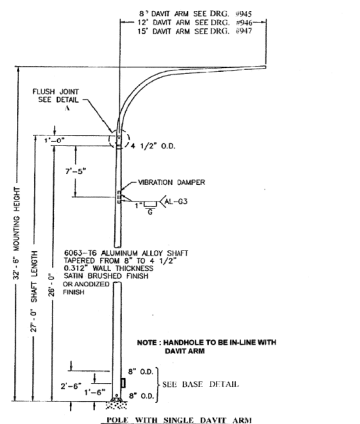
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CDOT ELECTRICAL STANDARD DETAILS

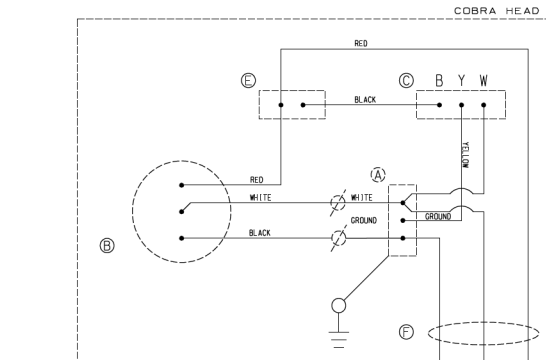
SCALE: SHEET 24 OF 26 SHEETS STA. TO STA.

FAJ RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
290 FAI 290 22 KEELER BR COOK 283 142
CONTRACT NO. 62U41
ILLINOIS FED. AID PROJECT

REVISED SHEET 10/22/2025



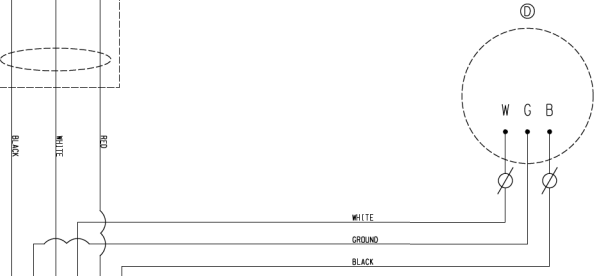
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10/1/2025	100



GROMMET NOTES:
-INSTALL RUBBER GROMMET AT WIRE RACE ENTRY POINT
-APPROPRIATE RUBBER GROMMET SIZE TO FIT COBRA HEAD'S METAL ORIFICE TO BE DETERMINED AT THE SHOP

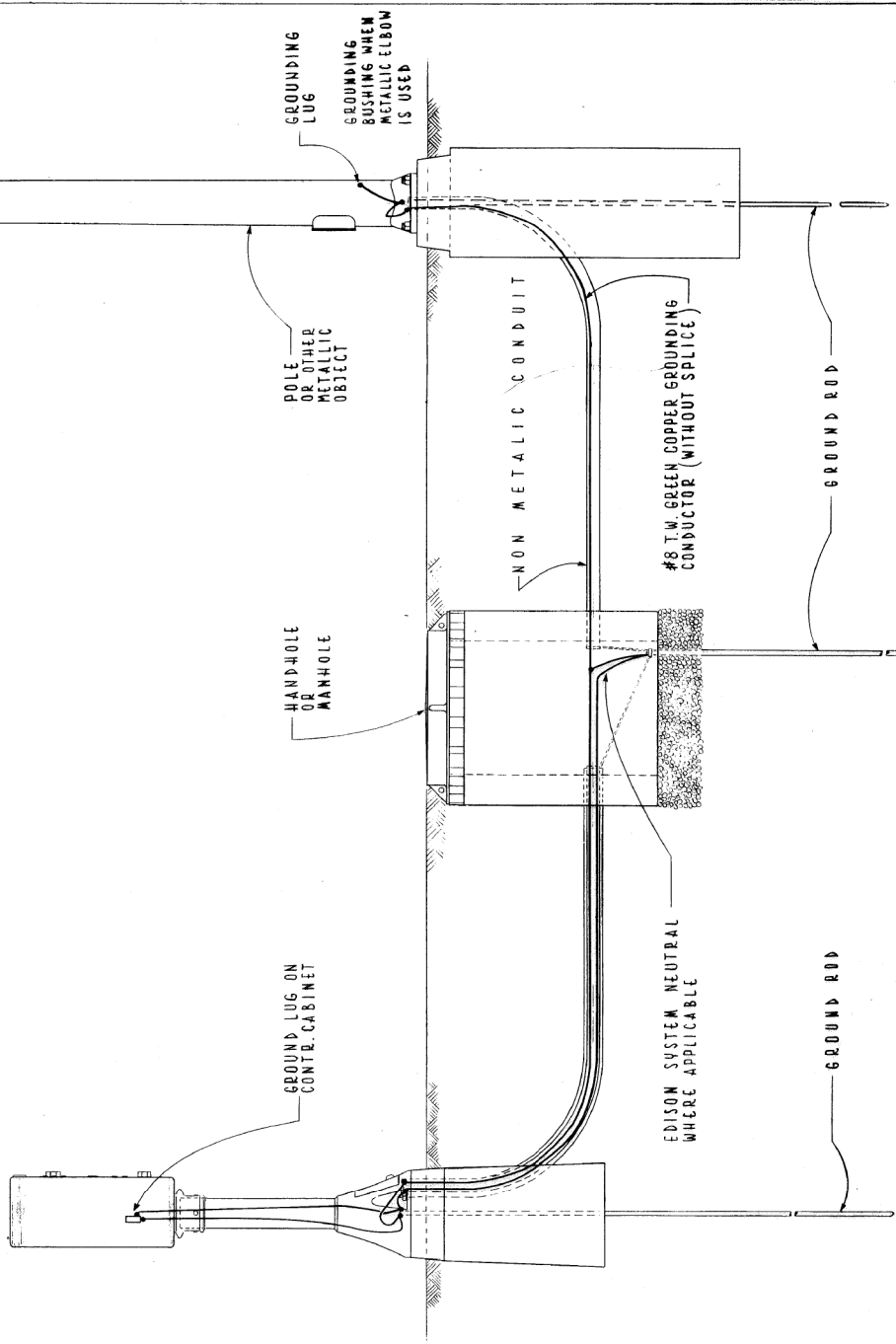
NOTES
A- GROUNDED TERMINAL BLOCK
B- NEMA SOCKET
C- DRIVER
D- PIGGY BACK ACORN
E- QUICK CONNECT
F- RUBBER GROMMET

○ DENOTES BURNDY WIRE CONNECTOR
□ DENOTES GROUND LUG ON POLE



DATE	REVISION
10/1/2025	1
10/1/2025	2
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NOTE: TERMINATE ALL METALLIC CONDUIT WITH GROUNDING BUSHING & GROUND TO GROUND ROD
WHEN METALLIC CONDUIT IS USED DELETE GROUNDING CONDUCTOR



TYPICAL GROUNDING METHODS
FOR
BUREAU OF ELECTRICITY EQUIPMENT

DATE	REVISION
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LT-24

ITS AND SURVEILLANCE GENERAL NOTES

1.

THE CONTRACTOR SHALL EXERCISE CARE WITH THE INSTALLATION OF UNDERGROUND EQUIPMENT AND FACILITIES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ANY UTILITIES IN THE WORK ZONE AND REQUEST UTILITY LOCATES.
2.

ALL UNDERGROUND RACEWAYS SHALL BE INSTALLED AT A MINIMUM DEPTH OF 30-INCHES, UNLESS OTHERWISE NOTED.
3.

THE CONTRACTOR SHALL VERIFY ADEQUATE CLEARANCE OVER EXISTING FACILITIES BEFORE INSTALLING DUCTS, CONDUIT AND CABLE.
4.

ALL DISTRUBED AREAS WHERE RESTORATION IS NOT COVERED BY APPLICABLE SECTIONS OF THE SPECIAL PROVISIONS SHALL BE RESTORED WITH TOPSOIL AND GRASS SEEDING. DAMAGED SHOULDER AREAS SHALL BE RESTORED TO THE SATIFACTION OF THE ENGINEER. THE WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
5.

THE CONTRACTOR SHALL CONTACT THE IDOT TRAFFIC SYSTEMS CENTER (708-524-2145) 21 DAYS IN ADVANCE OF ALL SURVEILLANCE AND ITS WORK FOR THIS PROJECT.
6.

THE CONTRACTOR SHALL CONTACT THE IDOT TRAFFIC SYSTEMS CENTER (708-524-2145) 72 HOURS IN ADVANCE OF WORK THAT REQUIRES TEMPORARY DE-ENERGIZING OF ITS EQUIPMENT.
7.

ALL EQUIPMENT TO BE WIRED USING AERIAL CABLES SHALL BE DISCONNECTED AND RECONNECTED WITHIN THE SAME CALENDAR DAY.
8.

FIBER OPTIC CABLE SPLICES SHALL BE COMPLETED DURING OFF-PEAK HOURS AT NO ADDITIONAL COST TO THE DEPARTMENT. COORDINATE WITH ELECTRICAL MAINTENANCE SECTION.
9.

PLEASE SEE KEEPING THE EXPRESSWAY OPEN TO TRAFFIC CONTRACT SPECIAL PROVISION FOR REQUIREMENTS ON LANE CLOSURES.
10.

STEEL CONDUIT INSTALLED UNDERGROUND SHALL BE RIGID GALVANIZED STEEL.

LEGEND

EXISTING	PROPOSED	DESCRIPTION
		TRAFFIC SURVEILLANCE CONTROLLER, EXISTING
		HEAVY DUTY HANDHOLE
		JUNCTION BOX, STAINLESS STEEL, SIZED AND TYPE AS NOTED
		COMMUNICATION VAULT
		CCTV DOME CAMERA AND STRUCTURE
		SERVICE POLE
		WOOD POLE, 90 FT., CLASS 1
		ELECTRIC CABLE IN CONDUIT
		FIBER OPTIC CABLE
		AERIAL CABLE, TYPE AND SIZE AS NOTED ON PLANS
		UNIT DUCT, CONDUIT OR CABLE,, TYPE AND SIZE AS NOTED ON PLANS
		CONDUIT ATTACHED TO STRUCTURE, PVC COATED GALVAINZED STEEL (SIZED AS NOTED ON PLANS)

SUMMARY OF QUANTITIES

DESCRIPTION	UNIT	TOTAL
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	50
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	50
CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL	FOOT	252
CONDUIT ATTACHED TO STRUCTURE, 4" DIA., PVC COATED GALVANIZED STEEL	FOOT	990
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 18" X 8"	EACH	6
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	5,523
CONDUIT RISER, GALVANIZED STEEL	EACH	2
MAINTENANCE OF EXISTING TRAFFIC SURVEILLANCE	L SUM	1
TEMPORARY CONCRETE BARRIER (SPECIAL)	FOOT	25
DRILL EXISTING JUNCTION BOX	EACH	2
FIBER OPTIC CABLE IN CONDUIT, 96 FIBERS, SINGLE MODE	FOOT	647
FIBER OPTIC CABLE, AERIAL, 96 FIBERS, SINGLE MODE	FOOT	3,121
FIBER OPTIC CABLE SPLICE - MAINLINE	EACH	2
ELECTRIC CABLE IN CONDUIT, NO. 19 25 PAIR	FOOT	1,401
REMOVE FIBER OPTIC CABLE FROM CONDUIT	FOOT	2,941
WOOD POLE, 90 FT, CLASS 1	EACH	15
ELECTRIC CABLE AERIAL SUSPENDED, COMMUNICATION, NO. 19 50 PAIR	FOOT	2,721
ELECTRIC CABLE AERIAL SUSPENDED, COMMUNICATION, NO. 19 100 PAIR	FOOT	2,721



DATE: 10/23/2025
SEAL EXPIRES:11/30/2025

Joseph Vondra

 - NEW SHEET 10/28/25

 REVISED SHEET 10/24/2025

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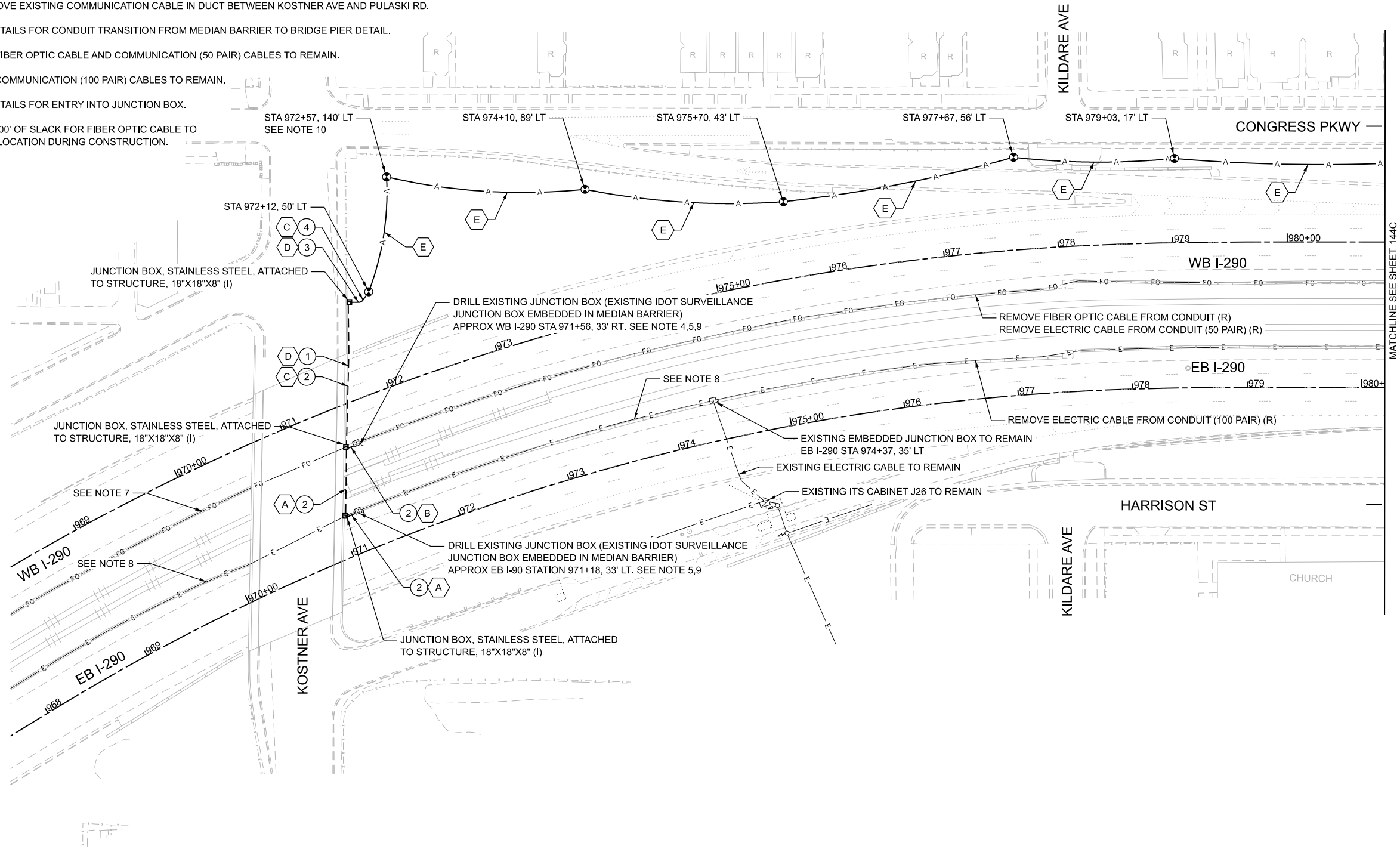
NOTES:

- CONTRACTOR TO VERIFY EXISTING EQUIPMENT AND LOCATIONS PRIOR TO BEGINNING WORK.
- REMOVAL OF EXISTING FIBER OPTIC CABLE SHALL NOT BEGIN UNTIL AFTER PROPOSED FIBER OPTIC CABLE IS OPERATIONAL.
- CONTRACTOR SHALL COORDINATE CABLE SPLICING AND OUTAGES WITH THE IDOT TRAFFIC SYSTEMS CENTER.
- SUGGESTED SEQUENCE OF WORK FOR TEMPORARY FIBER OPTIC CABLE:
 - INSTALL AERIAL FIBER OPTIC CABLE AS SHOWN BELOW.
 - DESPLICE EXISTING FIBER OPTIC CABLE/SPLICE TEMPORARY FIBER OPTIC CABLE BETWEEN KOSTNER AVE AND PULASKI RD.
 - REMOVE EXISTING FIBER OPTIC CABLE IN DUCT BETWEEN KOSTNER AVE AND PULASKI ROAD.
- SUGGESTED SEQUENCE OF WORK FOR TEMPORARY COMMUNICATION CABLE:
 - INSTALL AERIAL COMMUNICATION CABLE AS SHOWN BELOW.
 - DESPLICE EXISTING COMMUNICATION CABLE/SPLICE TEMPORARY COMMUNICATION CABLE BETWEEN KOSTNER AVE AND PULASKI RD.
 - REMOVE EXISTING COMMUNICATION CABLE IN DUCT BETWEEN KOSTNER AVE AND PULASKI RD.
- SEE ITS DETAILS FOR CONDUIT TRANSITION FROM MEDIAN BARRIER TO BRIDGE PIER DETAIL.
- EXISTING FIBER OPTIC CABLE AND COMMUNICATION (50 PAIR) CABLES TO REMAIN.
- EXISTING COMMUNICATION (100 PAIR) CABLES TO REMAIN.
- SEE ITS DETAILS FOR ENTRY INTO JUNCTION BOX.
- PROVIDE 100' OF SLACK FOR FIBER OPTIC CABLE TO ALLOW RELOCATION DURING CONSTRUCTION.

CABLE AND CONDUIT LEGEND

- (A) (4) ELECTRIC CABLE IN CONDUIT, COMMUNICATION, NO. 19 25 PAIR
(B) (2) ELECTRIC CABLE IN CONDUIT, COMMUNICATION, NO. 19 25 PAIR
(1) FIBER OPTIC CABLE IN CONDUIT, 96 FIBERS, SINGLE MODE
(C) (6) ELECTRIC CABLE IN CONDUIT, COMMUNICATION, NO. 19 25 PAIR
(D) (1) FIBER OPTIC CABLE, AERIAL, 96 FIBERS, SINGLE MODE
(E) FIBER OPTIC CABLE, AERIAL, 96 FIBERS, SINGLE MODE
ELECTRIC CABLE AERIAL SUSPENDED, COMMUNICATION, NO. 19 50 PAIR
ELECTRIC CABLE AERIAL SUSPENDED, COMMUNICATION, NO. 19 100 PAIR

- (1) CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL
(2) CONDUIT ATTACHED TO STRUCTURE, 4" DIA., PVC COATED GALVANIZED STEEL
(3) UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
(4) UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.



DATE: 10/23/2025
SEAL EXPIRES: 11/30/2025

Joseph Vondra

NEW SHEET 10/28/25



REVISED SHEET 10/24/2025

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USER NAME = jvondra	DESIGNED - DTJ	REVISED - 10/28/25 JMV
	DRAWN - AM	REVISED -
	CHECKED - JMV	REVISED -
PLOT DATE = 10/28/2025	DATE - 10/28/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-290 AT KEELER AVENUE
ITS AND SURVEILLANCE REMOVAL AND TEMPORARY PLAN

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 KEELER BR	COOK	283	144B
		CONTRACT NO.		62U41
ILLINOIS		FED. AID PROJECT		

CABLE AND CONDUIT LEGEND

- A

(4) ELECTRIC CABLE IN CONDUIT, COMMUNICATION, NO. 19 25 PAIR
- B

(2) ELECTRIC CABLE IN CONDUIT, COMMUNICATION, NO. 19 25 PAIR
(1) FIBER OPTIC CABLE IN CONDUIT, 96 FIBERS, SINGLE MODE
- C

(6) ELECTRIC CABLE IN CONDUIT, COMMUNICATION, NO. 19 25 PAIR
- D

(1) FIBER OPTIC CABLE, AERIAL, 96 FIBERS, SINGLE MODE
- E

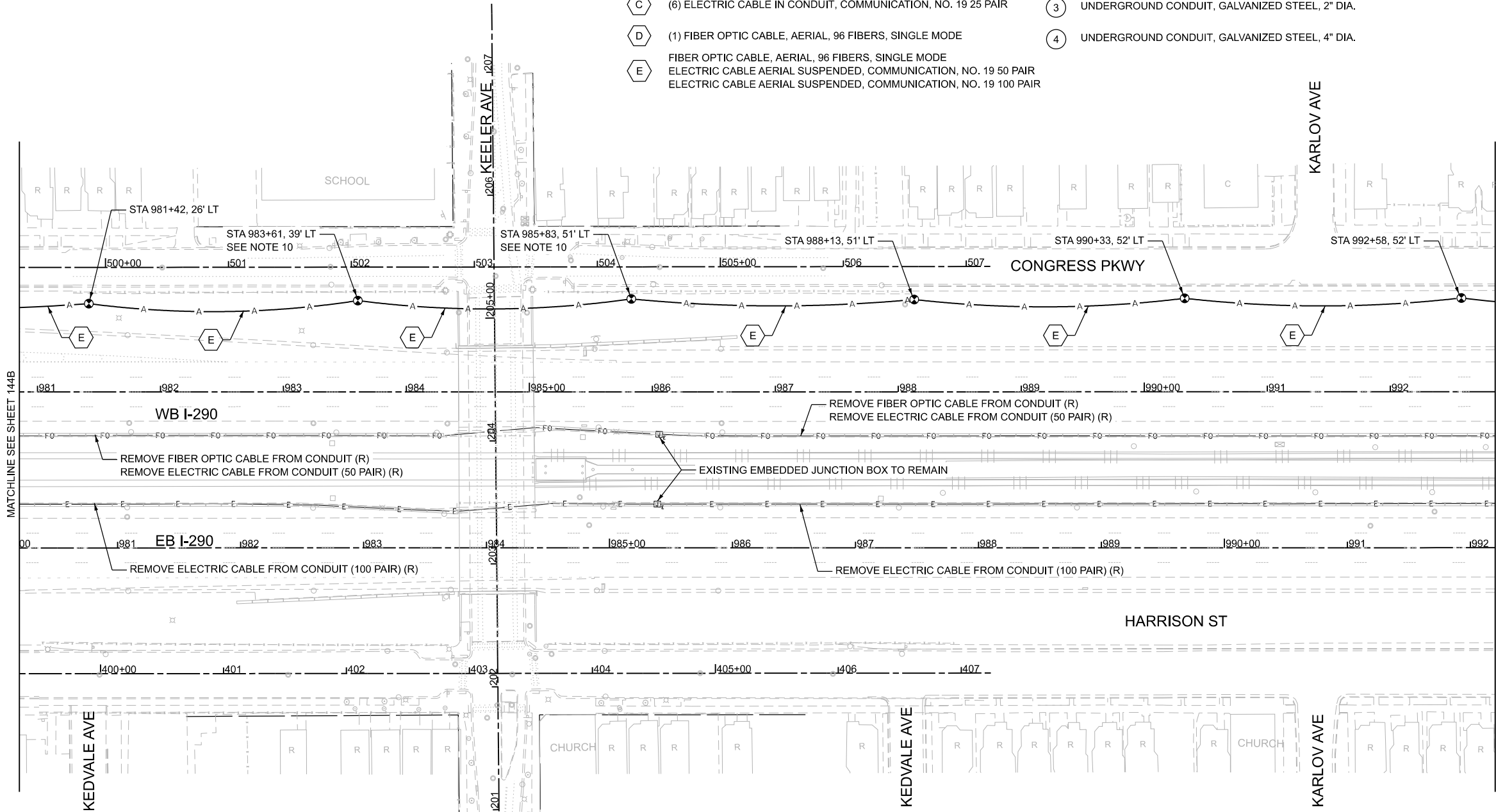
FIBER OPTIC CABLE, AERIAL, 96 FIBERS, SINGLE MODE
ELECTRIC CABLE AERIAL SUSPENDED, COMMUNICATION, NO. 19 50 PAIR
ELECTRIC CABLE AERIAL SUSPENDED, COMMUNICATION, NO. 19 100 PAIR
- 1

CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL
- 2

CONDUIT ATTACHED TO STRUCTURE, 4" DIA., PVC COATED GALVANIZED STEEL
- 3

UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
- 4

UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.



NOTES:

- CONTRACTOR TO VERIFY EXISTING EQUIPMENT AND LOCATIONS PRIOR TO BEGINNING WORK.
- REMOVAL OF EXISTING FIBER OPTIC CABLE SHALL NOT BEGIN UNTIL AFTER PROPOSED FIBER OPTIC CABLE IS OPERATIONAL.
- CONTRACTOR SHALL COORDINATE CABLE SPLICING AND OUTAGES WITH THE IDOT TRAFFIC SYSTEMS CENTER.
- SUGGESTED SEQUENCE OF WORK FOR TEMPORARY FIBER OPTIC CABLE:
 - INSTALL AERIAL FIBER OPTIC CABLE AS SHOWN BELOW.
 - DESPLICE EXISTING FIBER OPTIC CABLE/SLICE TEMPORARY FIBER OPTIC CABLE BETWEEN KOSTNER AVE AND PULASKI RD.
 - REMOVE EXISTING FIBER OPTIC CABLE IN DUCT BETWEEN KOSTNER AVE AND PULASKI ROAD.

NOTES (CONTINUED):

- SUGGESTED SEQUENCE OF WORK FOR TEMPORARY COMMUNICATION CABLE:
 - INSTALL AERIAL COMMUNICATION CABLE AS SHOWN BELOW.
 - DESPLICE EXISTING COMMUNICATION CABLE/SLICE TEMPORARY COMMUNICATION CABLE BETWEEN KOSTNER AVE AND PULASKI RD.
 - REMOVE EXISTING COMMUNICATION CABLE IN DUCT BETWEEN KOSTNER AVE AND PULASKI RD.
- SEE ITS DETAILS FOR CONDUIT TRANSITION FROM MEDIAN BARRIER TO BRIDGE PIER DETAIL.
- EXISTING FIBER OPTIC CABLE AND COMMUNICATION (50 PAIR) CABLES TO REMAIN.
- EXISTING COMMUNICATION (100 PAIR) CABLES TO REMAIN.
- SEE ITS DETAILS FOR ENTRY INTO JUNCTION BOX.
- PROVIDE 100' OF SLACK FOR FIBER OPTIC CABLE TO ALLOW RELOCATION DURING CONSTRUCTION.



DATE: 10/23/2025
SEAL EXPIRES: 11/30/2025

Joseph Vondra

NEW SHEET 10/28/25



REVISED SHEET 10/24/2025

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USER NAME = jvondra	DESIGNED - DTJ	REVISED - 10/28/25 JMV
	DRAWN - AM	REVISED -
	CHECKED - JMV	REVISED -
PLOT DATE = 10/28/2025	DATE - 10/28/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-290 AT KEELER AVENUE
ITS AND SURVEILLANCE REMOVAL AND TEMPORARY PLAN

SCALE: 1" = 50' SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 KEELER BR	COOK	283	144C
		CONTRACT NO. 62U41		
ILLINOIS		FED. AID PROJECT		

CABLE AND CONDUIT LEGEND

- A

(4) ELECTRIC CABLE IN CONDUIT, COMMUNICATION, NO. 19 25 PAIR
- B

(2) ELECTRIC CABLE IN CONDUIT, COMMUNICATION, NO. 19 25 PAIR
(1) FIBER OPTIC CABLE IN CONDUIT, 96 FIBERS, SINGLE MODE
- C

(6) ELECTRIC CABLE IN CONDUIT, COMMUNICATION, NO. 19 25 PAIR
- D

(1) FIBER OPTIC CABLE, AERIAL, 96 FIBERS, SINGLE MODE
- E

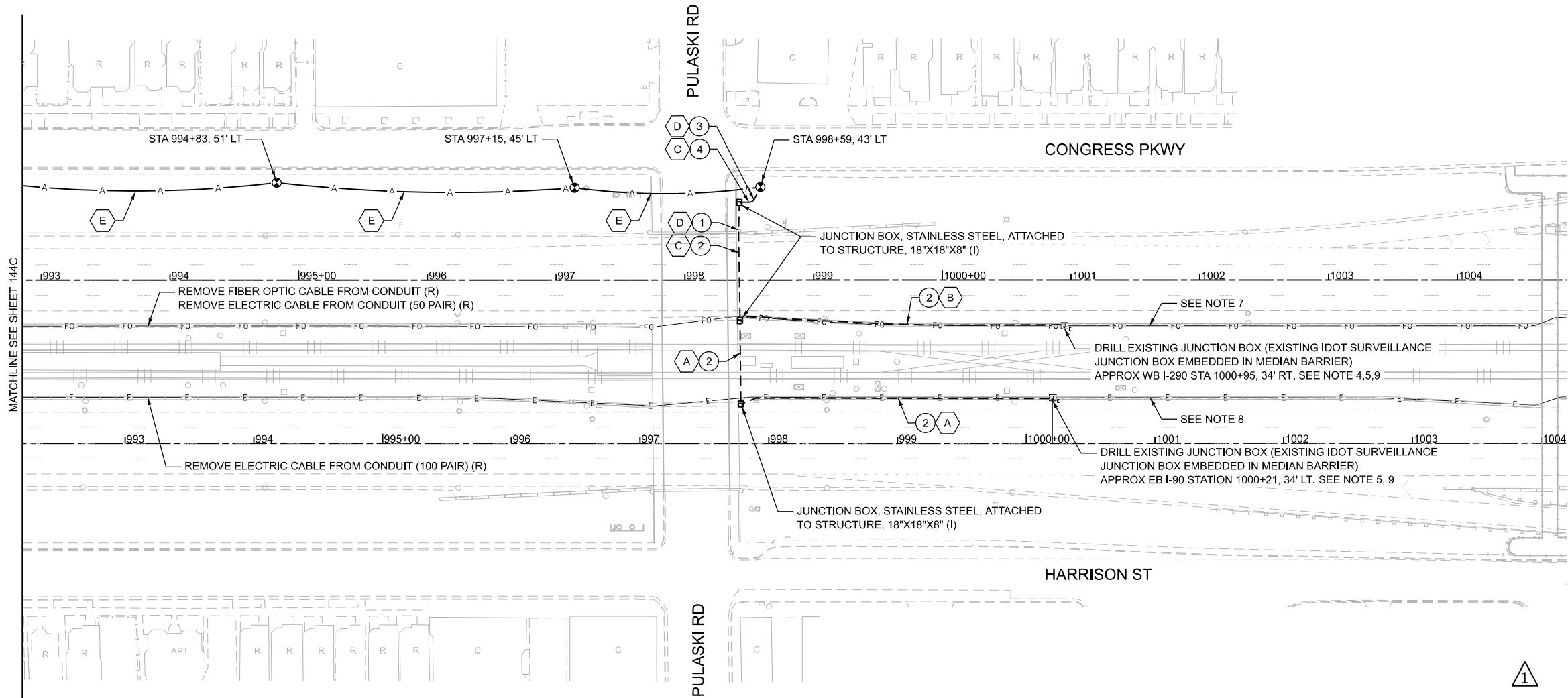
FIBER OPTIC CABLE, AERIAL, 96 FIBERS, SINGLE MODE
ELECTRIC CABLE AERIAL SUSPENDED, COMMUNICATION, NO. 19 50 PAIR
ELECTRIC CABLE AERIAL SUSPENDED, COMMUNICATION, NO. 19 100 PAIR
- 1

CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL
- 2

CONDUIT ATTACHED TO STRUCTURE, 4" DIA., PVC COATED GALVANIZED STEEL
- 3

UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
- 4

UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.



NOTES:

- CONTRACTOR TO VERIFY EXISTING EQUIPMENT AND LOCATIONS PRIOR TO BEGINNING WORK.
- REMOVAL OF EXISTING FIBER OPTIC CABLE SHALL NOT BEGIN UNTIL AFTER PROPOSED FIBER OPTIC CABLE IS OPERATIONAL.
- CONTRACTOR SHALL COORDINATE CABLE SPLICING AND OUTAGES WITH THE IDOT TRAFFIC SYSTEMS CENTER.
- SUGGESTED SEQUENCE OF WORK FOR TEMPORARY FIBER OPTIC CABLE:
 - INSTALL AERIAL FIBER OPTIC CABLE AS SHOWN BELOW.
 - DESPLICE EXISTING FIBER OPTIC CABLE/SLICE TEMPORARY FIBER OPTIC CABLE BETWEEN KOSTNER AVE AND PULASKI RD.
 - REMOVE EXISTING FIBER OPTIC CABLE IN DUCT BETWEEN KOSTNER AVE AND PULASKI ROAD.

NOTES (CONTINUED):

- SUGGESTED SEQUENCE OF WORK FOR TEMPORARY COMMUNICATION CABLE:
 - INSTALL AERIAL COMMUNICATION CABLE AS SHOWN BELOW.
 - DESPLICE EXISTING COMMUNICATION CABLE/SLICE TEMPORARY COMMUNICATION CABLE BETWEEN KOSTNER AVE AND PULASKI RD.
 - REMOVE EXISTING COMMUNICATION CABLE IN DUCT BETWEEN KOSTNER AVE AND PULASKI RD.
- SEE ITS DETAILS FOR CONDUIT TRANSITION FROM MEDIAN BARRIER TO BRIDGE PIER DETAIL.
- EXISTING FIBER OPTIC CABLE AND COMMUNICATION (50 PAIR) CABLES TO REMAIN.
- EXISTING COMMUNICATION (100 PAIR) CABLES TO REMAIN.
- SEE ITS DETAILS FOR ENTRY INTO JUNCTION BOX.
- PROVIDE 100' OF SLACK FOR FIBER OPTIC CABLE TO ALLOW RELOCATION DURING CONSTRUCTION.



DATE: 10/23/2025
SEAL EXPIRES: 11/30/2025

Joseph Vondra

△ - NEW SHEET 10/28/25



△ REVISED SHEET 10/24/2025

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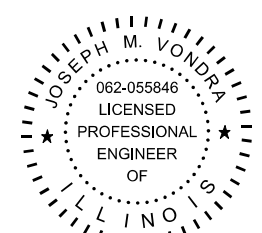
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	DRAWN - AM	REVISED -
	CHECKED - JMV	REVISED -
PLOT DATE = 10/28/2025	DATE - 10/28/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-290 AT KEELER AVENUE
ITS AND SURVEILLANCE REMOVAL AND TEMPORARY PLAN

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 KEELER BR	COOK	283	144D
		CONTRACT NO. 62U41		
ILLINOIS		FED. AID PROJECT		



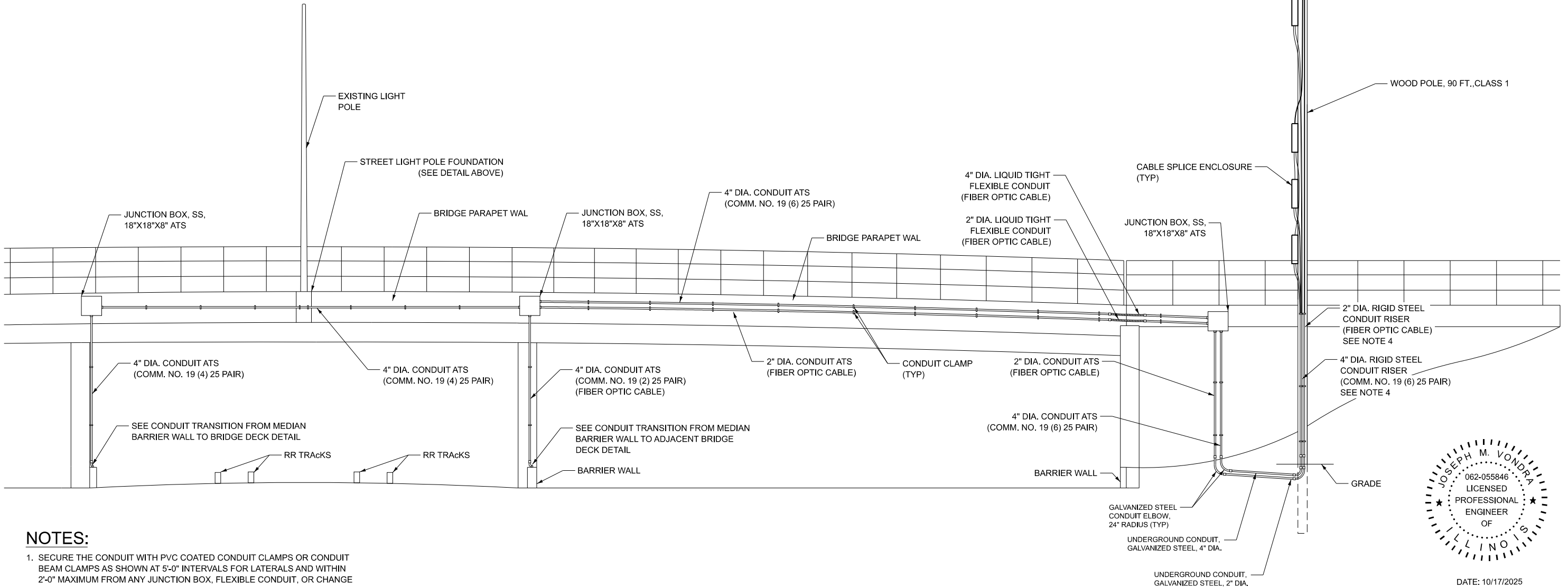
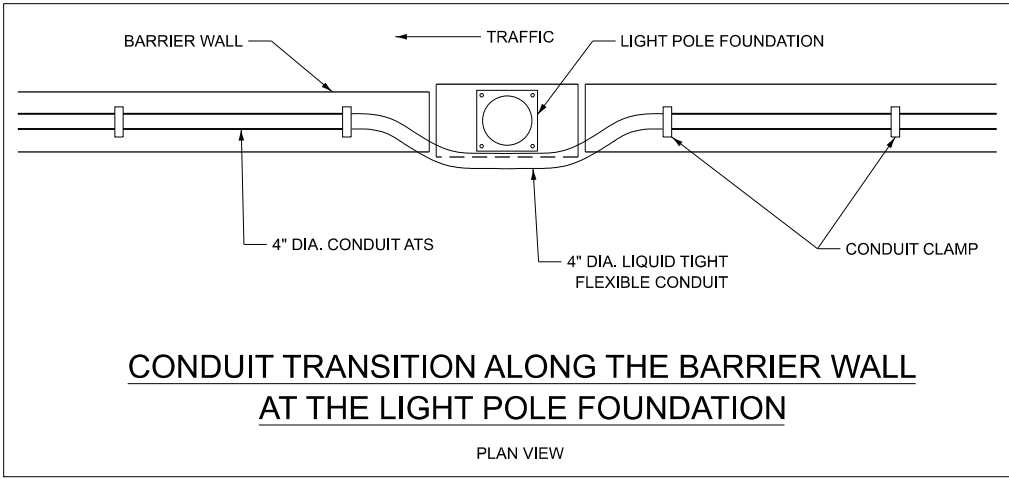
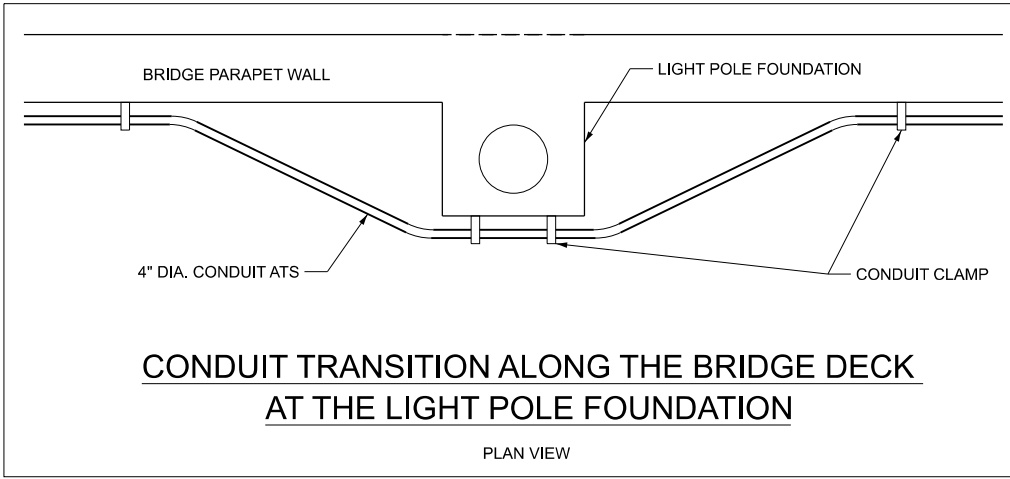
Joseph Vondra

1 ADDED ENTIRE SHEET 10/22/2025

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 KEELER BR	COOK	283	144E
		CONTRACT NO. 62U41		
ILLINOIS		FED. AID PROJECT		

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NOTES:

1. SECURE THE CONDUIT WITH PVC COATED CONDUIT CLAMPS OR CONDUIT BEAM CLAMPS AS SHOWN AT 5'-0" INTERVALS FOR LATERALS AND WITHIN 2'-0" MAXIMUM FROM ANY JUNCTION BOX, FLEXIBLE CONDUIT, OR CHANGE IN DIRECTION. ALL PVC COATED CONDUIT CLAMPS OR BEAM CLAMPS SHALL BE INCLUDED IN THE COST OF THE "CONDUIT ATTACHED TO STRUCTURE OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED" PAY ITEM.
2. FLEXIBLE CONDUIT SHALL BE LIQUID TIGHT FLEXIBLE METAL CONDUIT.
3. ALL EXPOSED CONDUIT SHALL BE PVC COATED GALVANIZED.
4. VERTICAL CONDUIT ON POLE.

PULASKI BRIDGE ELEVATION

LOOKING WEST. NOT TO SCALE



DATE: 10/17/2025
SEAL EXPIRES: 11/30/2025

Joseph Vondra

1 - NEW SHEET 10/28/25

1 ADDED ENTIRE SHEET 10/22/2025



USER NAME = jvondra	DESIGNED - DTJ	REVISED - 10/28/25 JMV
	DRAWN - AM	REVISED -
	CHECKED - JMV	REVISED -
PLOT DATE = 10/28/2025	DATE - 10/28/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

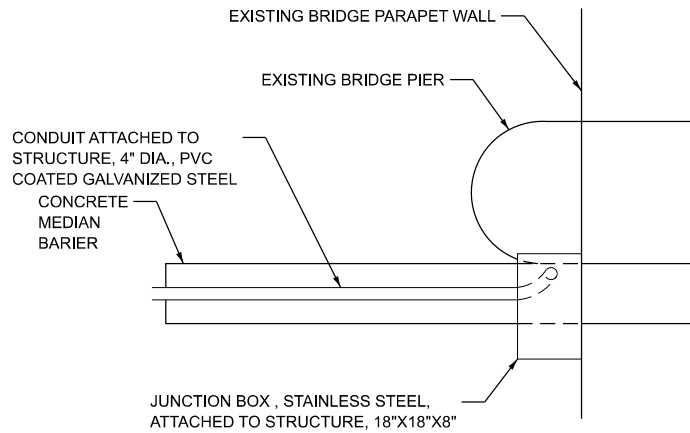
I-290 AT KEELER AVENUE
ITS AND SURVEILLANCE DETAILS

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

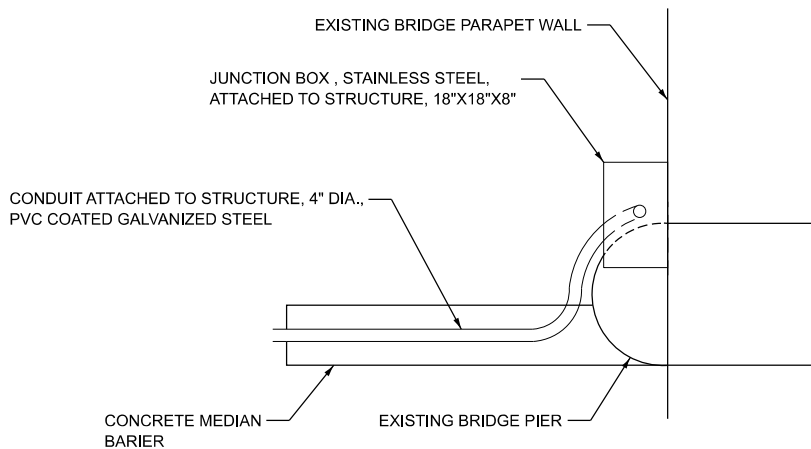
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CONTRACT NO. 62U41				
ILLINOIS FED. AID PROJECT				

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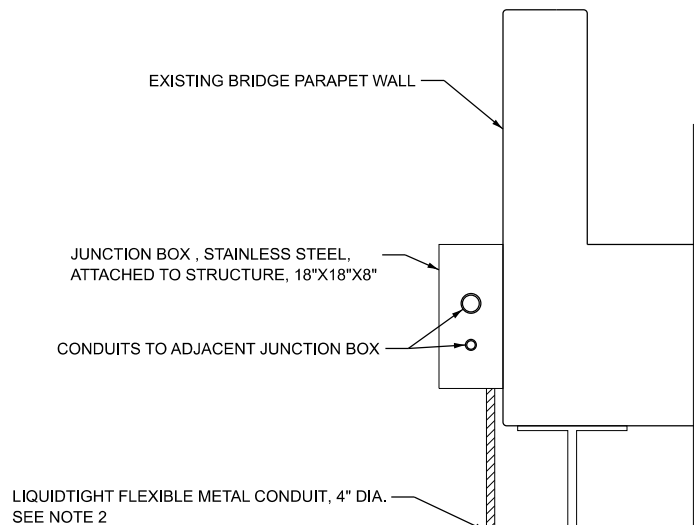
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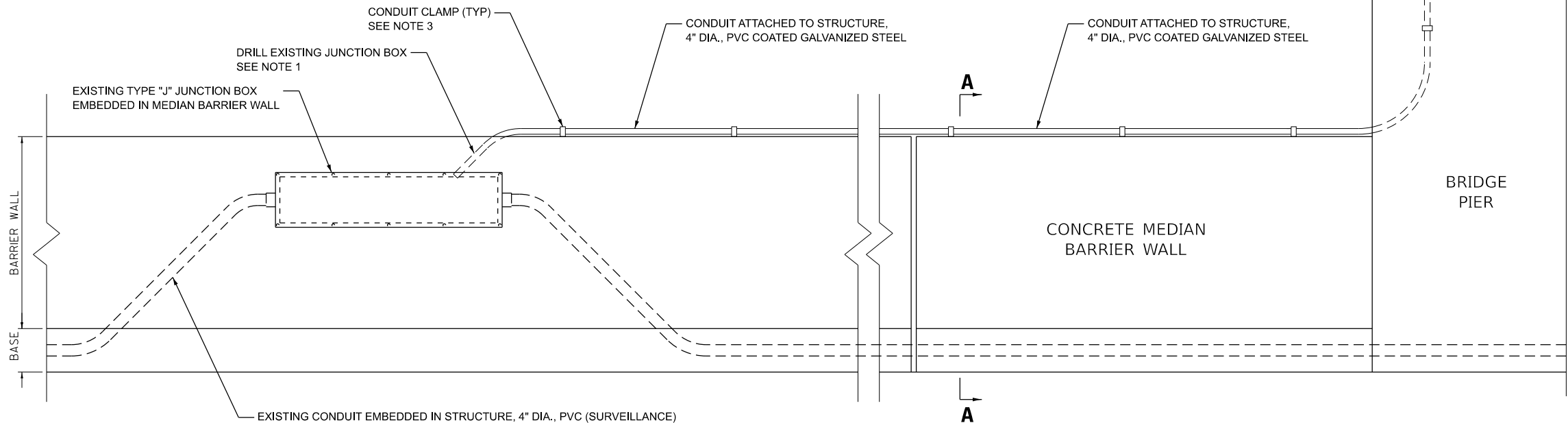
PLAN VIEW
WB TRANSITION AT KOSTNER AVE



PLAN VIEW
WB TRANSITION AT PULASKI AVE



CONDUIT ATTACHED TO FACE OF PIER AT KOSTNER AVE AND BACKSIDE OF PIER AT PULASKI RD. SEE PLAN VIEWS

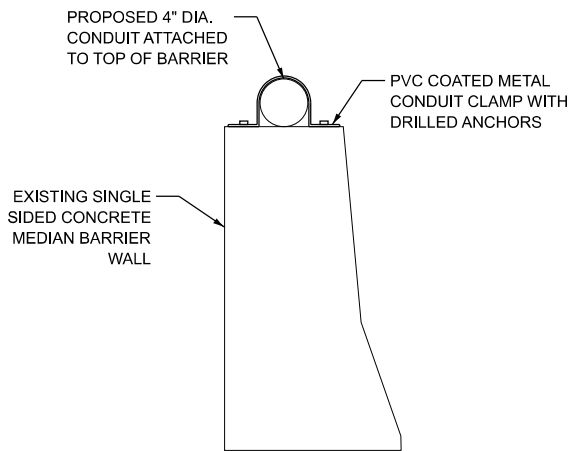


CONDUIT TRANSITION FROM TYPE "J" JUNCTION BOX TO ADJACENT BRIDGE DECK

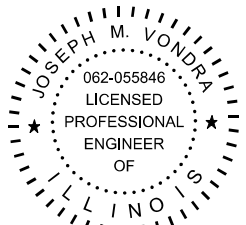
WESTBOUND I-290 AT KOSTNER AND PULASKI, LOOKING SOUTH

NOTES:

1. DRILL HOLE AT 45 DEGREE ANGLE TO ALLOW FIBER OPTIC CABLE TO BE INSTALLED WITHOUT EXCEEDING THE ALLOWABLE BENDING RADIUS.
2. FLEXIBLE CONDUIT SHALL BE INCLUDED IN THE THE COST OF "CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIAMETER, GALVANIZED STEEL, PVC COATED" PAY ITEM. FLEXIBLE CONDUIT SHALL BE LIQUID TIGHT FLEXIBLE METAL CONDUIT.
3. SECURE THE CONDUIT WITH PVC COATED CONDUIT CLAMPS OR CONDUIT BEAM CLAMPS AS SHOWN AT 5'-0" INTERVALS FOR LATERALS AND WITHIN 2'-0" MAXIMUM FROM ANY JUNCTION BOX, FLEXIBLE CONDUIT, OR CHANGE IN DIRECTION. ALL PVC COATED CONDUIT CLAMPS OR BEAM CLAMPS SHALL BE INCLUDED IN THE COST OF THE "CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL PVC COATED" PAY ITEM.



SECTION A-A



DATE: 10/17/2025
SEAL EXPIRES: 11/30/2025

Joseph Vondra

1 - NEW SHEET 10/28/25

1 ADDED ENTIRE SHEET 10/22/2025



USER NAME = jvondra	DESIGNED - DTJ	REVISED - 10/28/25 JMV
	DRAWN - AM	REVISED -
	CHECKED - JMV	REVISED -
PLOT DATE = 10/28/2025	DATE - 10/28/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

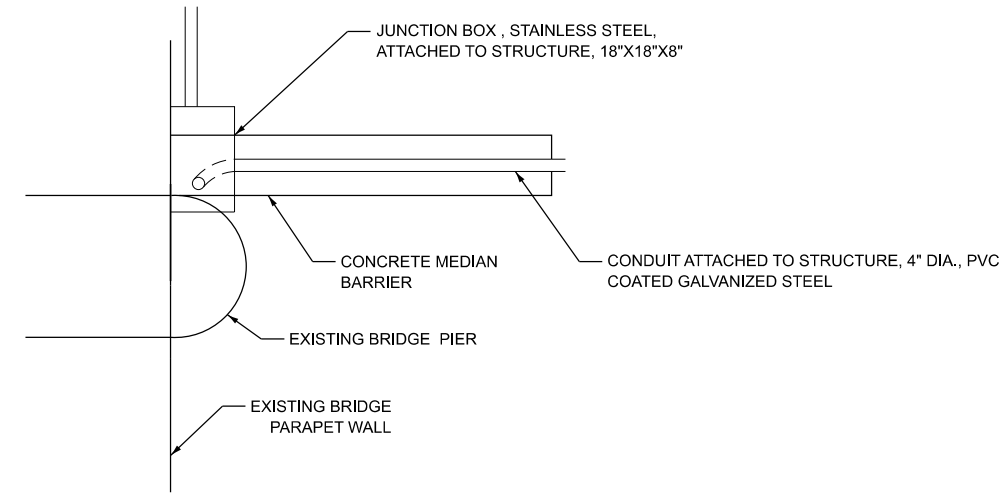
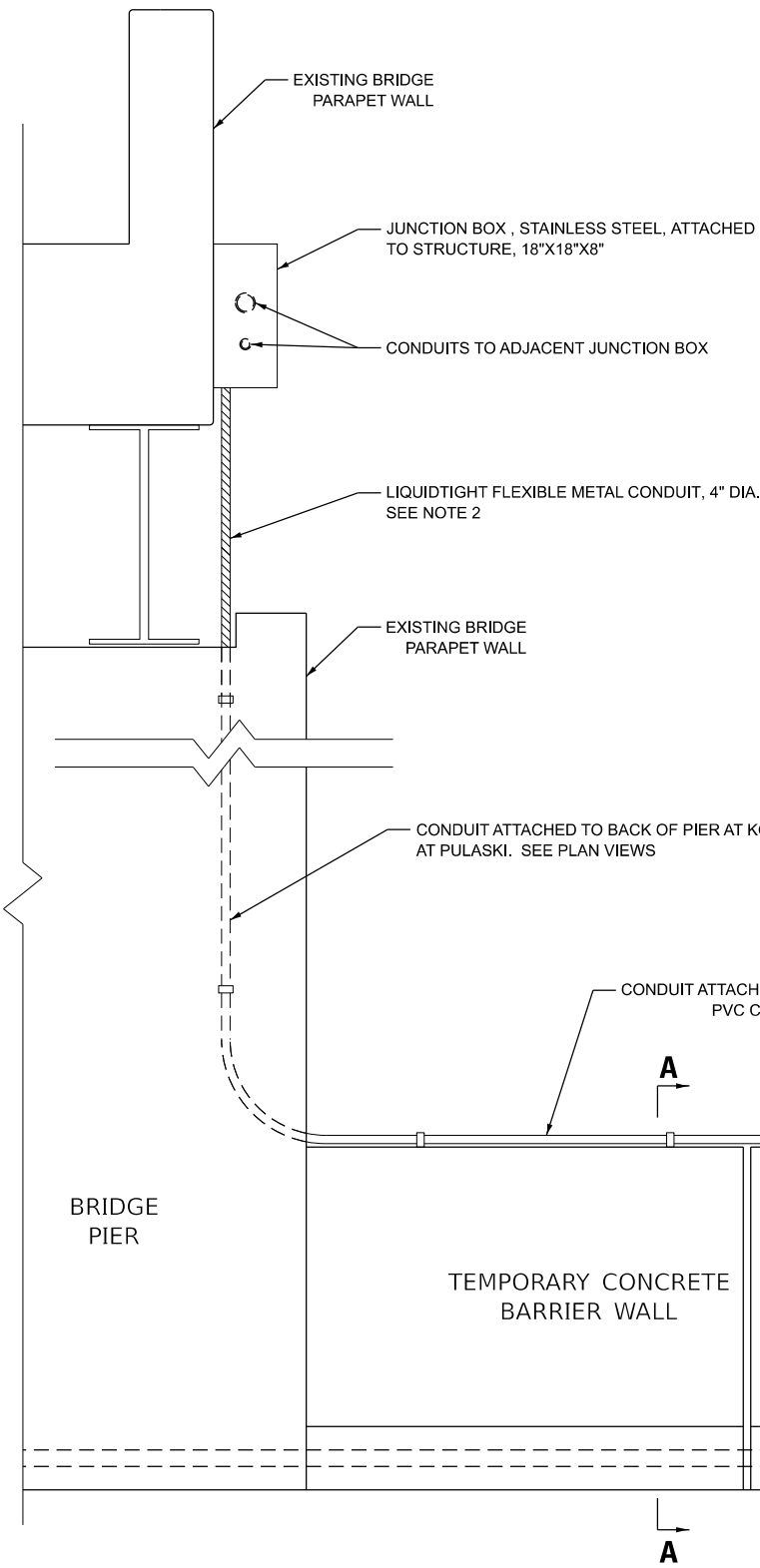
I-290 AT KEELER AVENUE
ITS AND SURVEILLANCE DETAILS

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

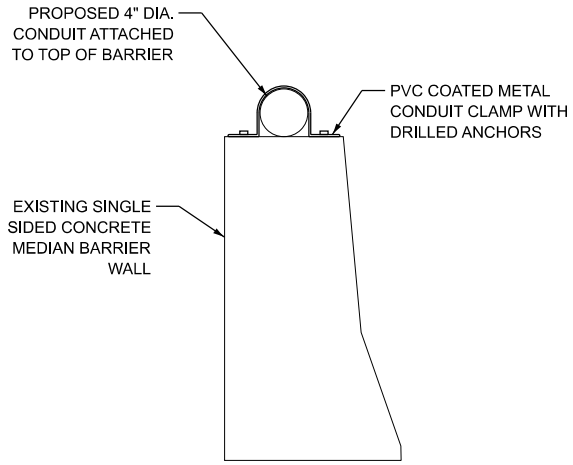
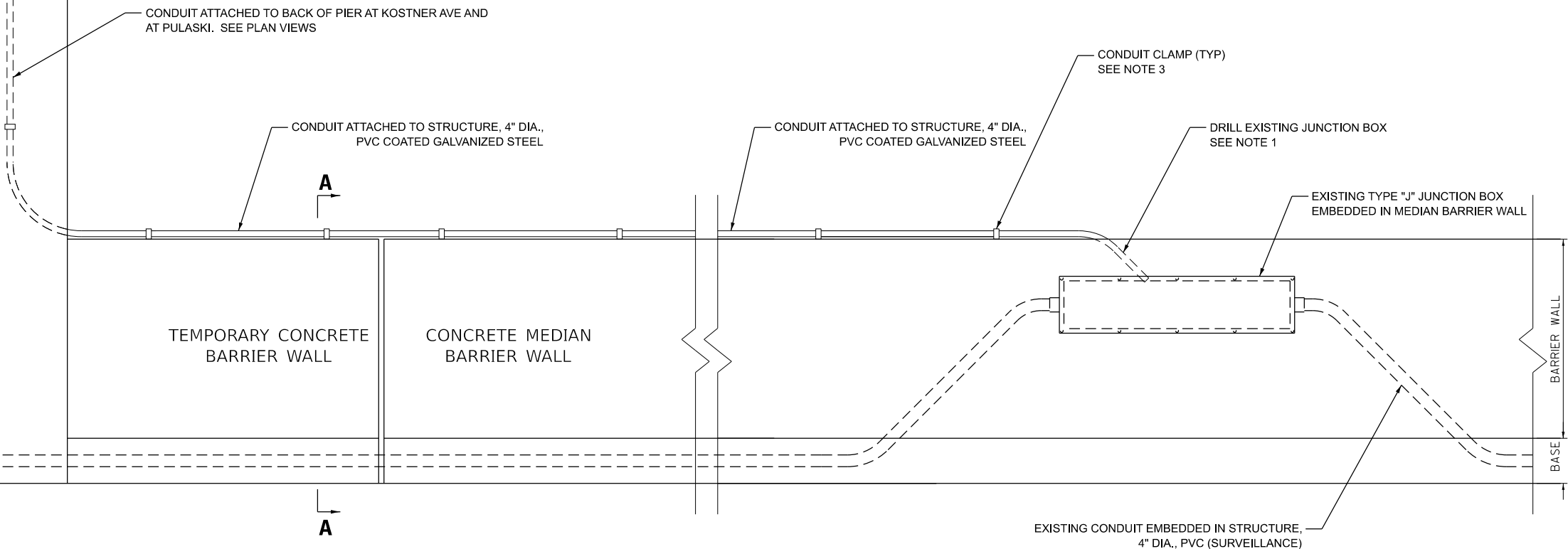
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 KEELER BR	COOK	283	144G
		CONTRACT NO. 62U41		
ILLINOIS		FED. AID PROJECT		

1

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PLAN VIEW
EB BARRIER AT KOSTNER AVE AND PULASKI RD



SECTION A-A



DATE: 10/17/2025
SEAL EXPIRES: 11/30/2025

Joseph Vondra

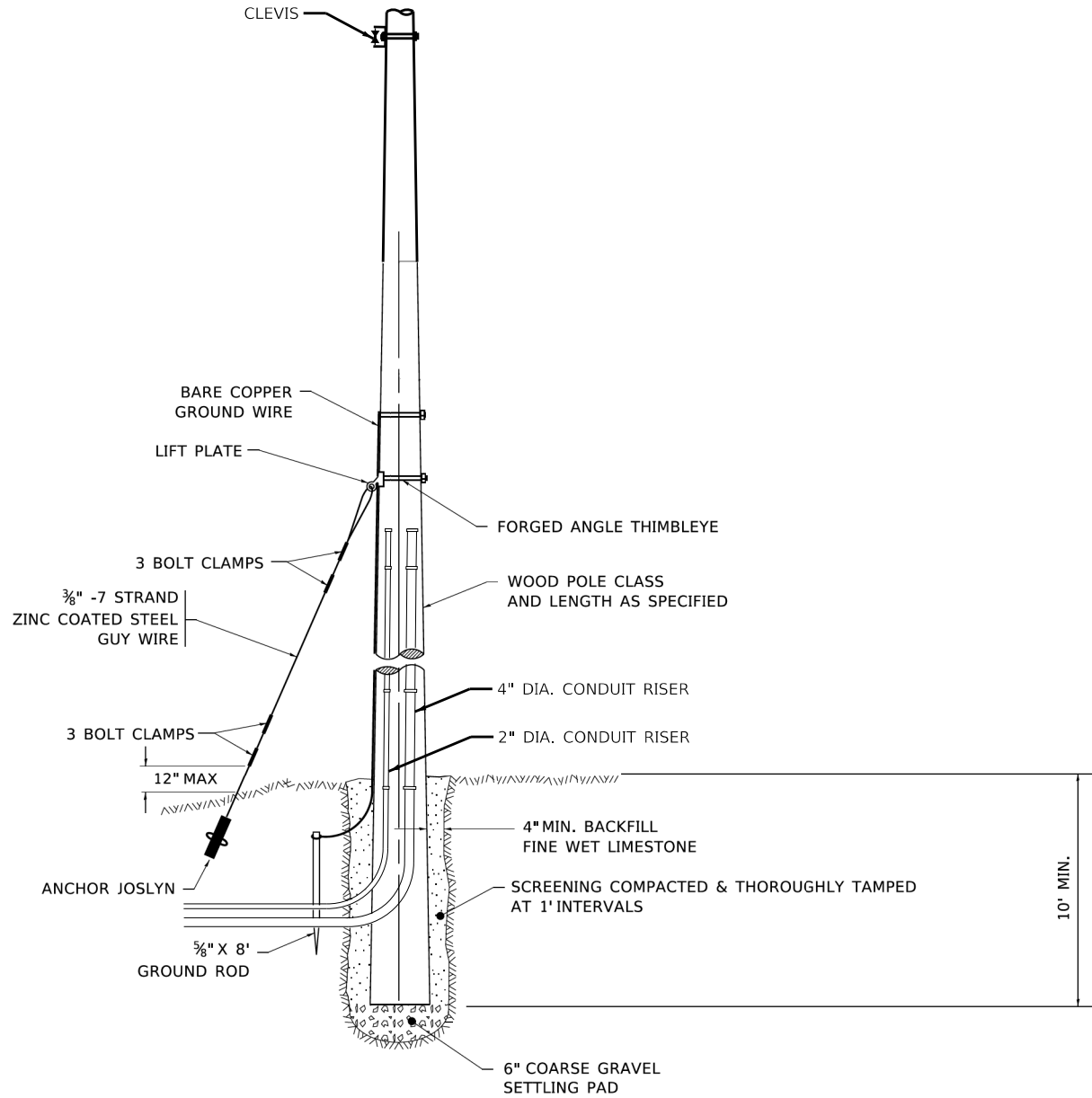
NEW SHEET 10/28/25

CONDUIT TRANSITION FROM TYPE "J" JUNCTION BOX TO ADJACENT BRIDGE DECK

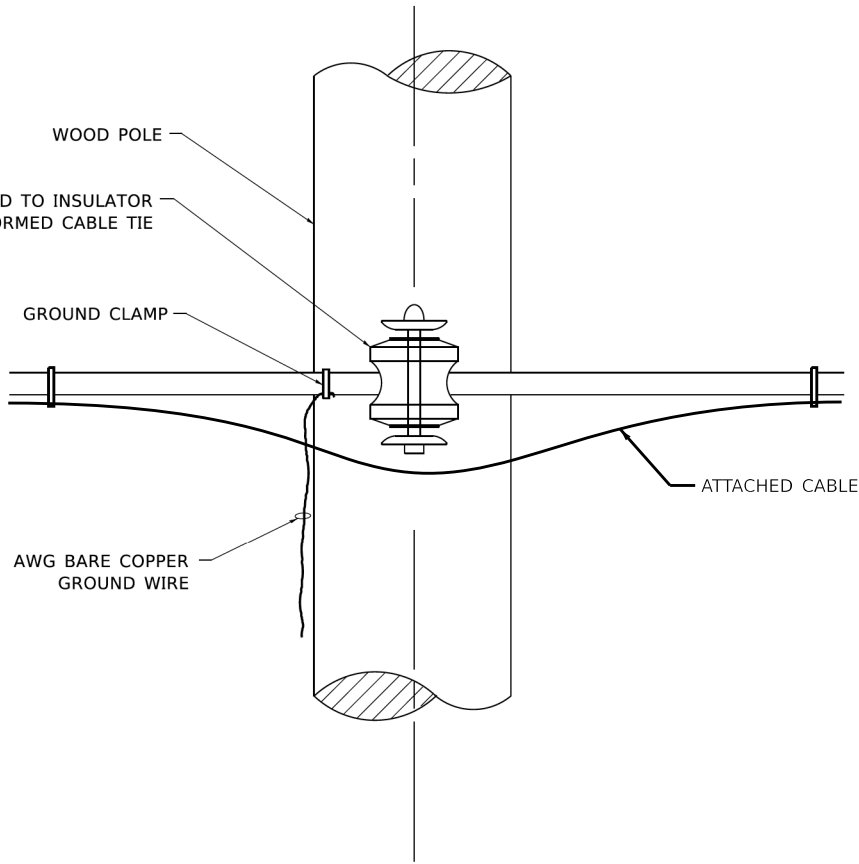
EASTBOUND I-290 AT KOSTNER AND PULASKI, LOOKING NORTH

ADDED ENTIRE SHEET 10/22/2025

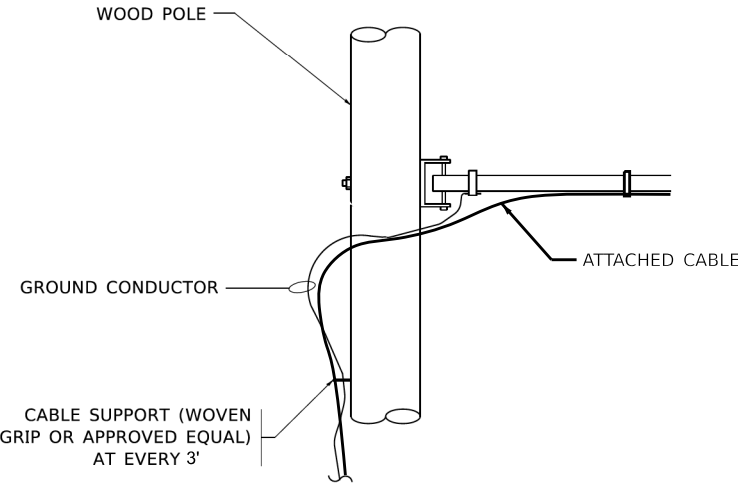
 8725 W. Higgins Rd, Ste 600, Chicago, IL 60631 P 773.775.4009 www.ciorba.com	USER NAME = jvondra		DESIGNED - DTJ	REVISED -  - 10/28/25 JMV	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				I-290 AT KEELER AVENUE ITS AND SURVEILLANCE DETAILS					F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			DRAWN - AM	REVISED -					290	FAI 290 22 KEELER BR	COOK	283	144H					
			CHECKED - JMV	REVISED -					CONTRACT NO. 62U41									
	PLOT DATE = 10/28/2025		DATE - 10/28/2025	REVISED -					ILLINOIS FED. AID PROJECT									
									SCALE: N.T.S.	SHEET 4	OF 5 SHEETS	STA.	TO STA.					



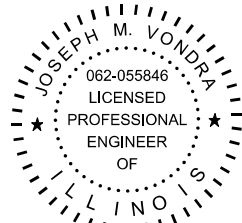
TEMPORARY WOOD POLE DETAIL
NOTE TO SCALE



TEMPORARY WOOD POLE ATTACHMENT DETAIL
NOTE TO SCALE



AERIAL CABLE CONNECTION DETAIL
NOTE TO SCALE



DATE: 10/17/2025
SEAL EXPIRES: 11/30/2025

Joseph Vondra

NEW SHEET 10/28/25

ADDED ENTIRE SHEET 10/22/2025

NOTES:

- ADJUST CABLE HEIGHT TO CLEAR TREES AND OTHER OBSTACLES.
- MAXIMUM CABLE HEIGHT SHALL BE 60' ABOVE EXISTING GRADE.
- WOOD POLE SPACING SHALL NOT EXCEED 250' WITH CABLES MOUNTED AT 60' ABOVE EXISTING GRADE.



USER NAME = jvondra	DESIGNED - DTJ	REVISED - 10/28/25 JMV
	DRAWN - AM	REVISED -
	CHECKED - JMV	REVISED -
PLOT DATE = 10/28/2025	DATE - 10/28/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-290 AT KEELER AVENUE
ITS AND SURVEILLANCE DETAILS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 KEELER BR	COOK	283	1441
		CONTRACT NO. 62U41		
ILLINOIS		FED. AID PROJECT		



GENERAL NOTES:

1. All new structural steel shall be metallized. See Special Provision for "Metallizing of Structural Steel".
2. Calculated Weight of Structural Steel = 468,240 lbs. (AASHTO M 270 Grade 50)
= 37,460 lbs. (AASHTO M 270 Grade 36)
3. No field welding is permitted except as specified in the contract documents.
4. Fasteners shall be ASTM F 3125 Grade A325 Type 1, hot-dipped galvanized. Bolts 7/8 in. diameter, holes 15/16 in. diameter, unless otherwise noted. See Special Provision for "Metallizing of Structural Steel."
5. Reinforcement bars designated (E) shall be epoxy coated.
6. The finishing machine rails shall be placed on the top of the top flange of the exterior beams within the deck pour. Beam blocks shall be placed between beams at all tie locations in each bay for the full width of the deck pour.
7. Slipforming of the Parapets is not allowed.
8. Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8" (0.01 ft). Adjustment shall be made either by grinding the surface or shimming the bearings.
9. Concrete Sealer shall be applied to the designated areas of the Abutments, Piers, and Retaining Walls.
- 10.The existing structural steel contains lead. The Contractor shall take appropriate precautions to address the presence of lead on this project.
- 11.The Contractor shall exercise extreme caution during construction to make certain that construction activities will not have detrimental effects on the adjacent utilities and other facilities.
- 12.All work to be done on or adjacent to the CTA's right of way will require a work plan submitted by the Contractor to the CTA for review and approval prior to the start of work. The Contractor must provide five (5) week look-ahead schedule to the CTA Rail Operations Department. Shoring or Temporary Soil Retention System (TSRS) adjacent to the CTA right-of-way shall be designed by an Illinois Licensed Structural Engineer (S.E.). Contractor to submit signed and sealed TSRS drawings and calculations to the CTA for review and approval prior to the start of work. See the special provision "CTA Flagging and Coordination."
- 13.Temporary Soil Retention System (Special) adjacent to the ex. 42" Ø gas main to remain in place, shall not be vibrated or driven into place in order to avoid adversely affecting the utility.

INDEX OF SHEETS:

- S-1 General Plan & Elevation
S-2 General Data
S-3 Substructure Layout
S-4 S. Temporary Soil Retention System
S-5 N. Temporary Soil Retention System
S-6 Intentionally Left Blank
S-7 Temporary Sheet Piling at Piers
S-8 Exist. Structure Removal Plan, Elevation & Section
S-9 East Wingwall Removal Details
S-10 West Wingwall Removal Details
S-11 Pier Removal Details
S-12 Top of Slab Elevations (Sheet 1 of 4)
S-13 Top of Slab Elevations (Sheet 2 of 4)
S-14 Top of Slab Elevations (Sheet 3 of 4)
S-15 Top of Slab Elevations (Sheet 4 of 4)
S-16 Top of South Approach Slab Elevations
S-17 Top of North Approach Slab Elevations
S-18 Deck Plan and Cross Section
S-19 Parapets Elevation
S-20 Abut. Diaphragm Elev. and Det.
S-21 Deck Details, Bar Diagrams and Bill of Material
S-22 Headhouse Closure Fence Details
S-23 South Approach Slab (Sheet 1 of 2)
S-24 South Approach Slab (Sheet 2 of 2)
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S-26 North Approach Slab (Sheet 2 of 2)
S-27 Bridge Fence Railing, Curved (1 of 2)
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S-30 Girder Moment and Reaction Tables
S-31 Structural Steel Details
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S-33 Bearing Details (2 of 2)

- S-34 South Abutment Plan & Elevation
S-35 North Abutment Plan & Elevation
S-36 North & South Abut. Foundation Plan
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S-38 Abutment Details (2 of 2)
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S-40 NE Retaining Wall Plan & Elevation
S-41 SW Retaining Wall Plan & Elevation
S-42 NW Retaining Wall Plan & Elevation
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S-44 Retaining Wall Details (Sheet 2 of 2)
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S-46 Chain Link Fence Details (2 of 2)
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S-48 Pier 1 Plan and Elevation
S-49 Pier 1 Details & BOM
S-50 Pier 2 Plan and Elevation
S-51 Pier 2 Details & BOM
S-52 End Curved Retaining Walls
S-53 Soil Borings (1 of 11)
S-54 Soil Borings (2 of 11)
S-55 Soil Borings (3 of 11)
S-56 Soil Borings (4 of 11)
S-57 Soil Borings (5 of 11)
S-58 Soil Borings (6 of 11)
S-59 Soil Borings (7 of 11)
S-60 Soil Borings (8 of 11)
S-61 Soil Borings (9 of 11)
S-62 Soil Borings (10 of 11)
S-63 Soil Borings (11 of 11)

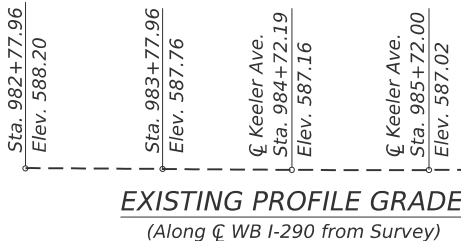
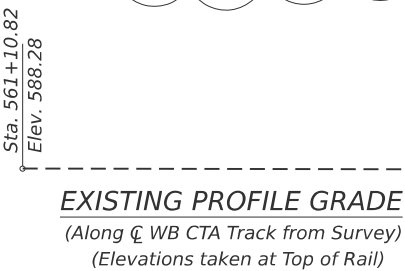
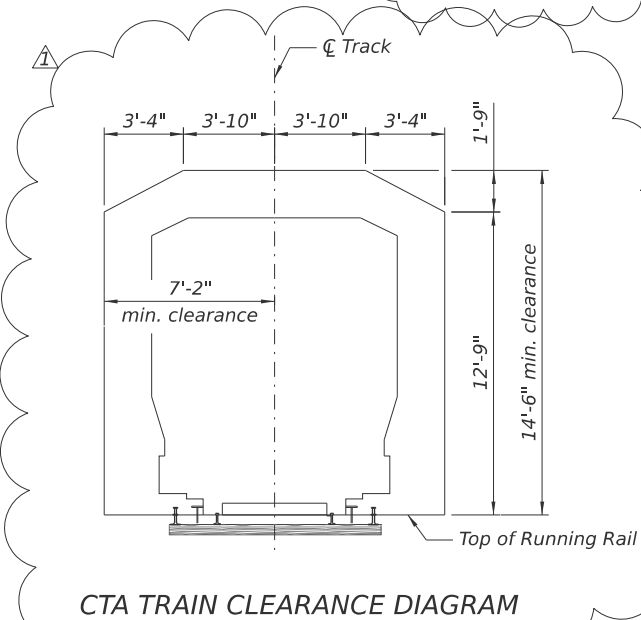
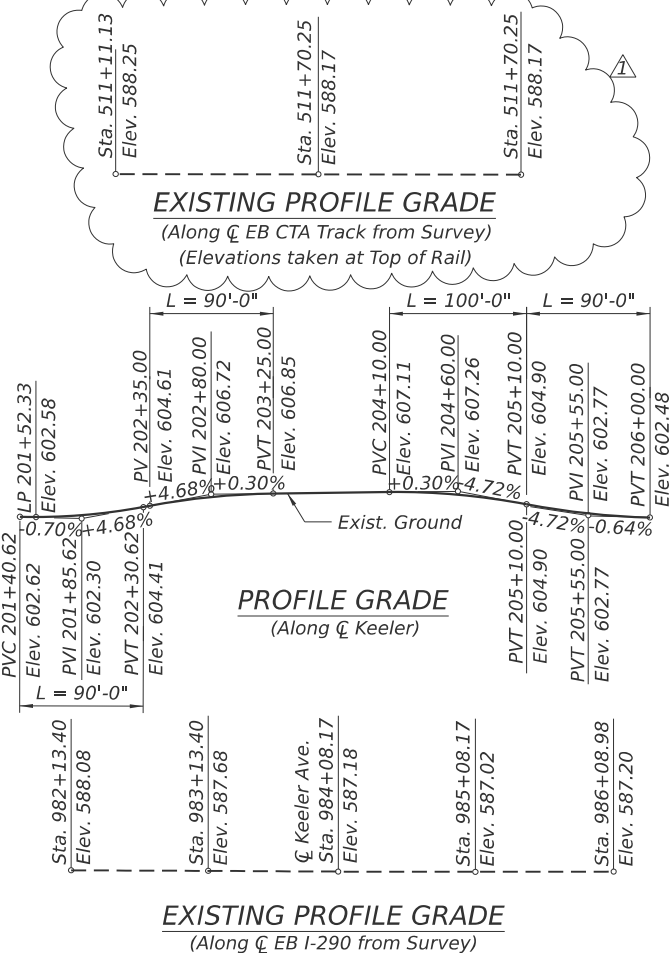
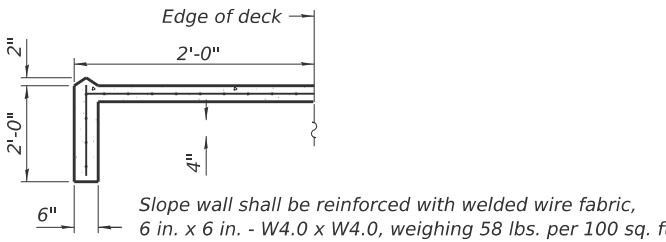
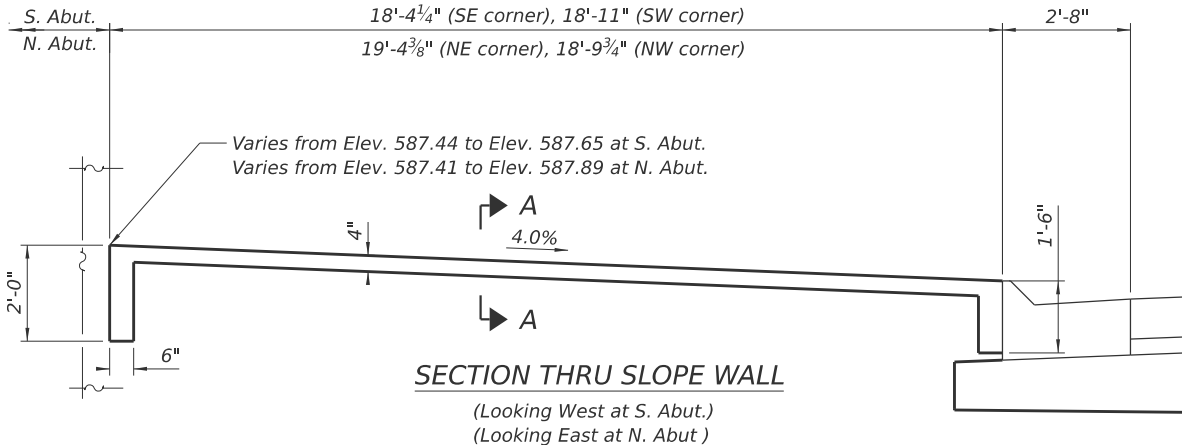
TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Removal of Existing Structures	Each	-	-	1
Protective Shield	Sq Yd	1,342	-	1,342
Structure Excavation	Cu Yd	-	4,063	4,063
Concrete Structures	Cu Yd	-	1,170.2	1,170.2
Concrete Superstructure	Cu Yd	653.7	-	653.7
Bridge Deck Grooving	Sq Yd	1,091	-	1,091
Form Liner Textured Surface	Sq Ft	-	4,103	4,103
Protective Coat	Sq Yd	2,671	-	2,671
Concrete Superstructure (Approach Slab)	Cu Yd	68.2	-	68.2
Furnishing and Erecting Structural Steel	L Sum	1	-	1
Stud Shear Connectors	Each	9,480	-	9,480
Reinforcement Bars	Pound	-	145,120	145,120
Reinforcement Bars, Epoxy Coated	Pound	151,170	185,440	336,610
Bicycle Railing, Curved	Foot	24	-	24
Bridge Fence Railing, Curved	Foot	522	-	522
Slope Wall, 4"	Sq Yd	-	275	275
Name Plates	Each	1	-	1
Drilled Shaft in Soil	Cu Yd	-	716.1	716.1
Drilled Shaft in Rock	Cu Yd	-	28.6	28.6
Elastomeric Bearing Assembly, Type I	Each	24	-	24
Anchor Bolts, 1"	Each	64	-	64
Temporary Sheet Piling	Sq Ft	-	6,601	6,601
Temporary Soil Retention System	Sq Ft	-	4,622	4,622
Granular Backfill for Structures	Cu Yd	-	2,201	2,201
Concrete Sealer	Sq Ft	-	9,395	9,395
Geocomposite Wall Drain	Sq Yd	-	479	479
Pipe Underdrain for Structures, 4"	Foot	-	312	312
Crosshole Sonic Logging Access Ducts	Foot	-	2,422	2,422
Crosshole Sonic Logging Testing	Each	-	10	10
Concrete Wearing Surface, 5"	Sq Yd	128	-	128
Bar Terminators	Each	432	-	432
Pile Removal	Each	-	44	44
Temporary Soil Retention System (Special)	Sq Ft	-	4,665	4,665
Chain Link Fence, 4' Attached to Structure	Sq Ft	-	188	188

STA. 203+76.63
BUILT 20__ BY
STATE OF ILLINOIS
F.A.U. Rt. 2420
Sec. FAI 290 22 Keeler BR
LOADING HL-93
STR. NO. 016-2093

NAME PLATE

See Std. 515001



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

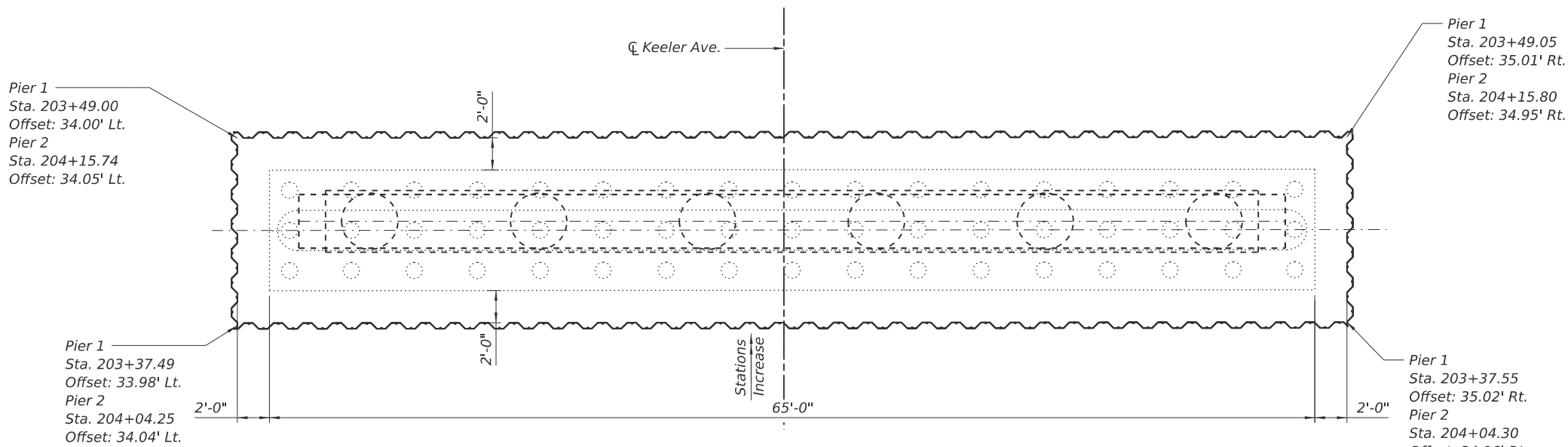
GENERAL DATA
STRUCTURE NO. 016-2093

SHEET S-2 OF 63 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62U41				
ILLINOIS FED. AID PROJECT				

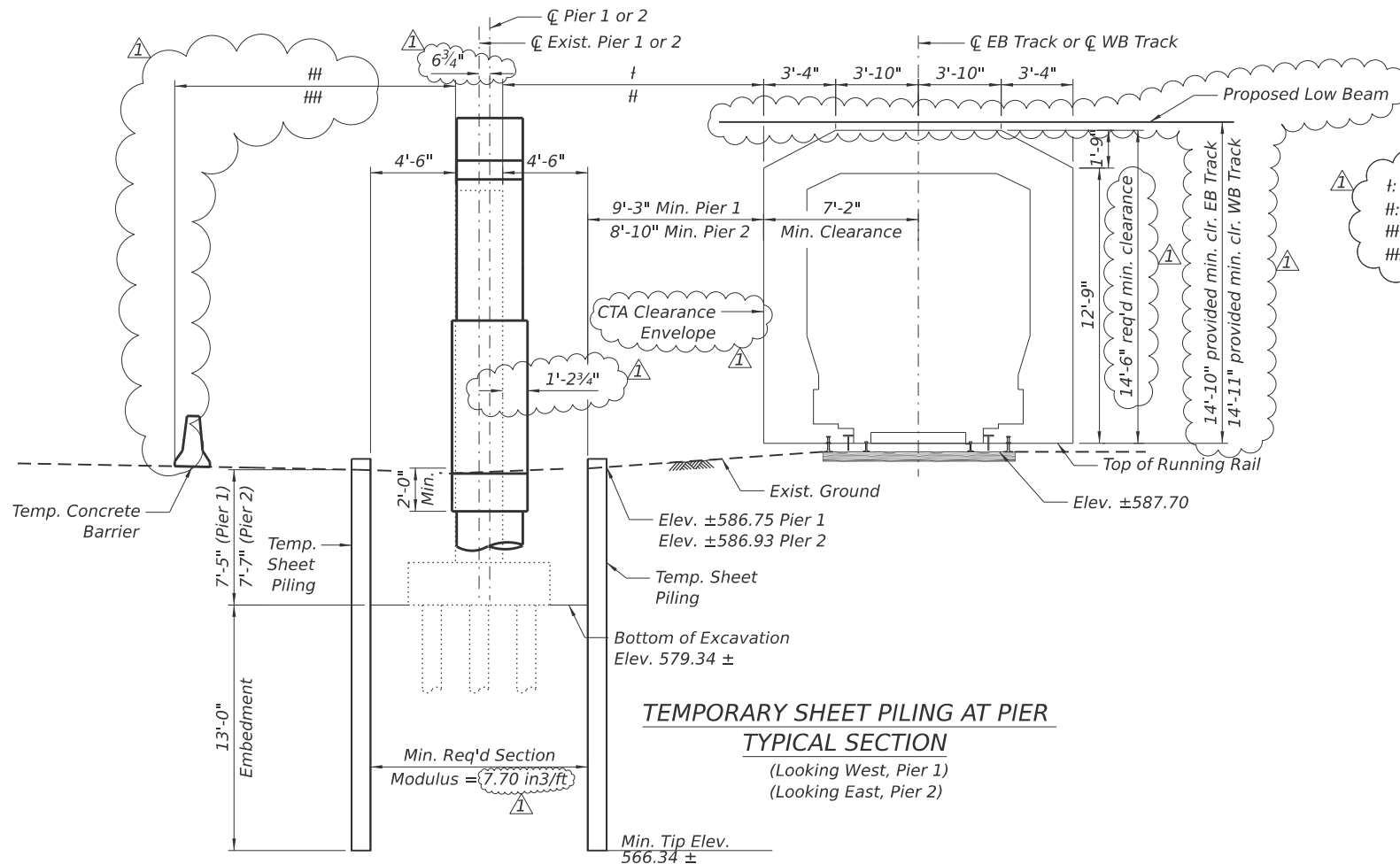
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PARTIAL PLAN TEMPORARY SHEET PILING PLAN

(Pier 1 shown, Pier 2 similar by 180° rotation)



BILL OF MATERIAL

Item	Unit	Total
Temporary Soil Retention	Sq Ft	6,601

t: Varies from 13'-9 3/4" to 14'-4 1/2", Pier 1, EB Track
H: Varies from 13'-4 1/2" to 14'-5", Pier 2, WB Track
HH: Varies from 15'-9" to 16'-4", Pier 1, EB I-290
HHH: Varies from 15'-4" to 16'-0", Pier 2, WB I-290

NOTE:

- If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.

1 REVISED SHEET 10/22/2025



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	CHECKED - GJH	REVISED -
PLOT SCALE =	DRAWN - JMI	REVISED -
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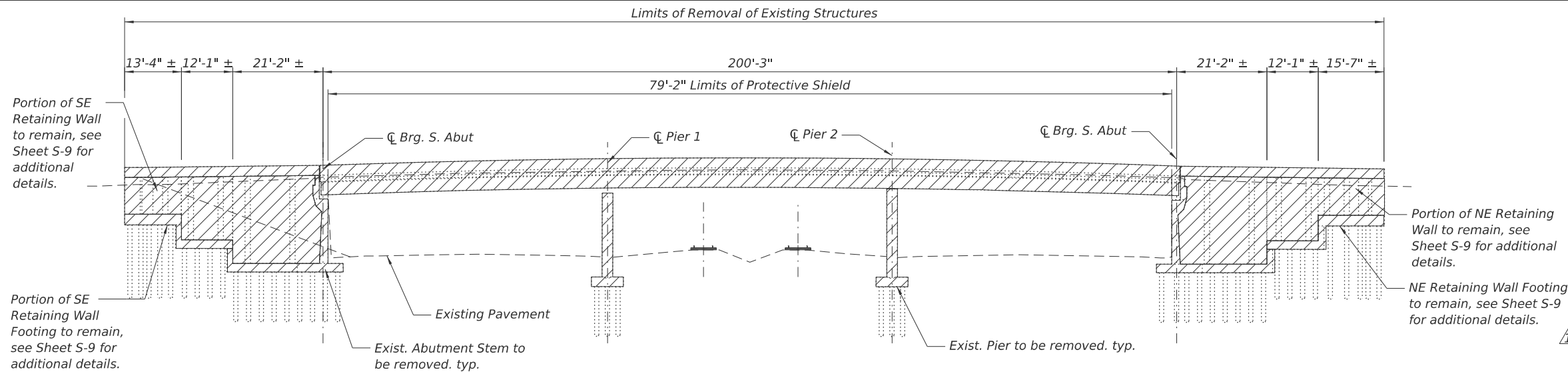
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY SHEET PILING AT PIERS
STRUCTURE NO. 016-2093**

SHEET S-7 OF 63 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 KEELER BR	COOK	283	151
CONTRACT NO. 62U41				
ILLINOIS FED. AID PROJECT				

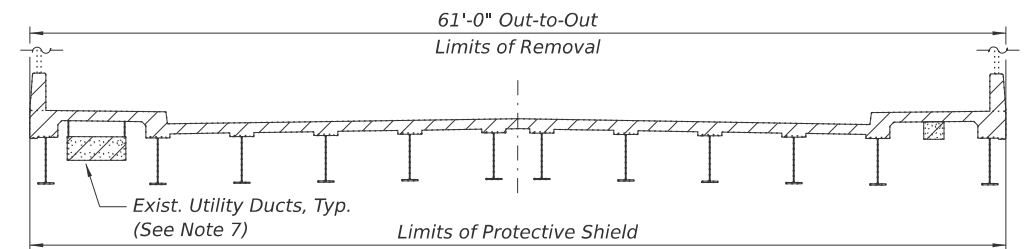
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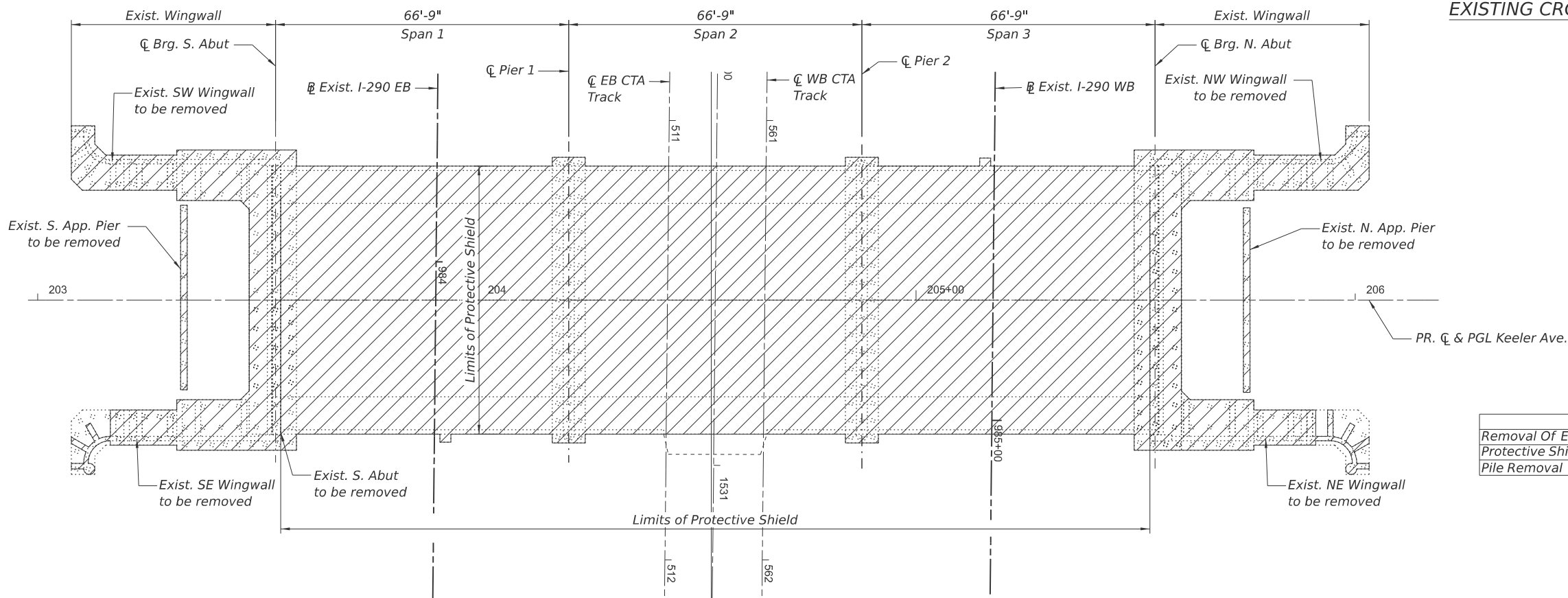
ELEVATION

NOTES:

- Existing Utilities between girders shall be relocated to provide uninterrupted service during construction (by others). Utilities to be incorporated into new structure.
- The contractor is responsible to protect the CTA tracks from falling objects and debris during removal of the existing structure.
- Remove existing bridge fence, bridge railing, parapet, and wire fence at CTA headhouse. (Removal cost included with removal of existing structures.)
- For existing approach slab, sidewalk, curb and gutter, and pavement removal quantities, see roadway plans.
- See Sheets S-9 thru S-11 for Pile removal locations.
- Voids left by Pile Removal shall be backfilled with sand meeting the requirements of Section 1003 of the Standard Specifications. Included in the cost of Pile Removal.
- Existing ducts may contain asbestos. See the special provision "Removal of Asbestos Cement Conduits".



EXISTING CROSS SECTION



PLAN

LEGEND

 Removal of Exist. Structures

BILL OF MATERIAL

Item	Unit	Quantity
Removal Of Existing Structures	Each	1
Protective Shield	Sq Yd	1,342
Pile Removal	Each	44

1 REVISED SHEET 10/22/2025



USER NAME = GM	DESIGNED - GM	REvised 1- 9/11/2025
	CHECKED - GJH	REvised -
PLOT SCALE =	DRAWN - GM	REvised -
PLOT DATE = 10/17/2025	CHECKED - GJH	REvised -

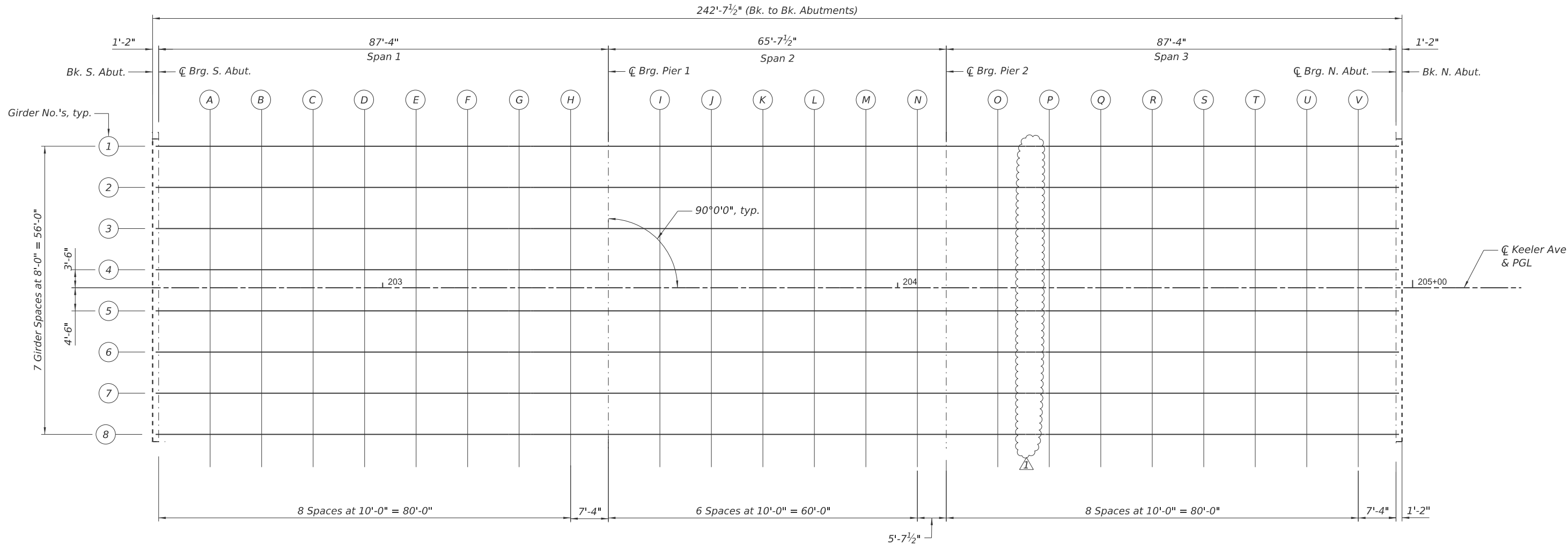
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE REMOVAL PLAN, ELEVATION & SECTION
STRUCTURE NO. 016-2093

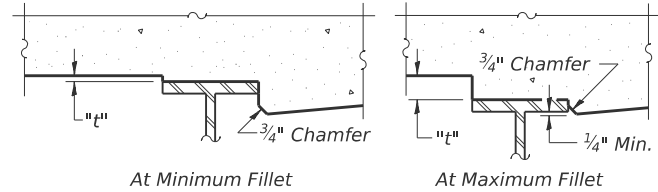
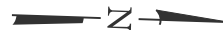
SHEET S-8 OF 63 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 KEELER BR	COOK	283	152
CONTRACT NO. 62U41				
ILLINOIS FED. AID PROJECT				

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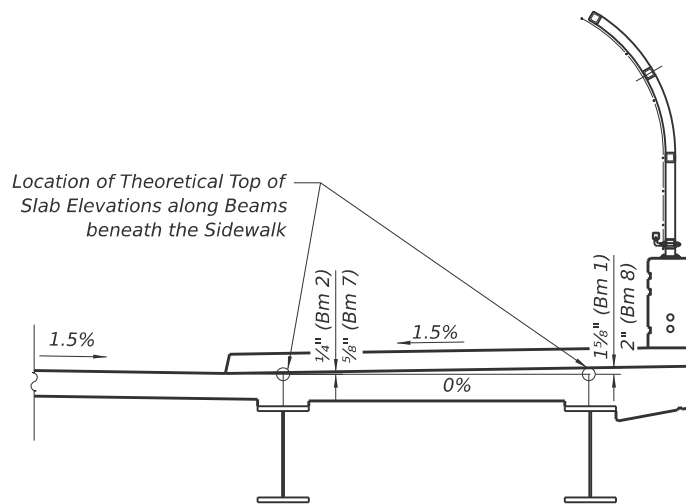


PLAN

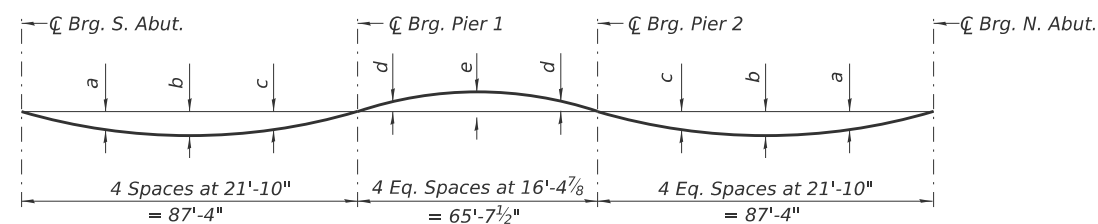


To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown above. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on sheet S-13 thru S-15, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS



SECTION THRU SIDEWALK



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only)

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on S-13 thru S-15.

DEAD LOAD DEFLECTION VALUES

Beam No./ Location	a	b	c	d	e
1,8	1 7/8"	2 1/2"	1 3/8"	1/2"	5/8"
2,3,6,7	2 1/8"	2 3/4"	1 5/8"	1/2"	3/4"
4,5	1 5/8"	2 1/8"	1"	1/2"	1/2"

1 REVISED SHEET 10/22/2025



USER NAME = GM	DESIGNED - JMI	REVISED 1 9/11/2025
	CHECKED - GJH	REVISED -
PLOT SCALE =	DRAWN - JMI	REVISED -
PLOT DATE = 9/12/2025	CHECKED - GJH	REVISED -

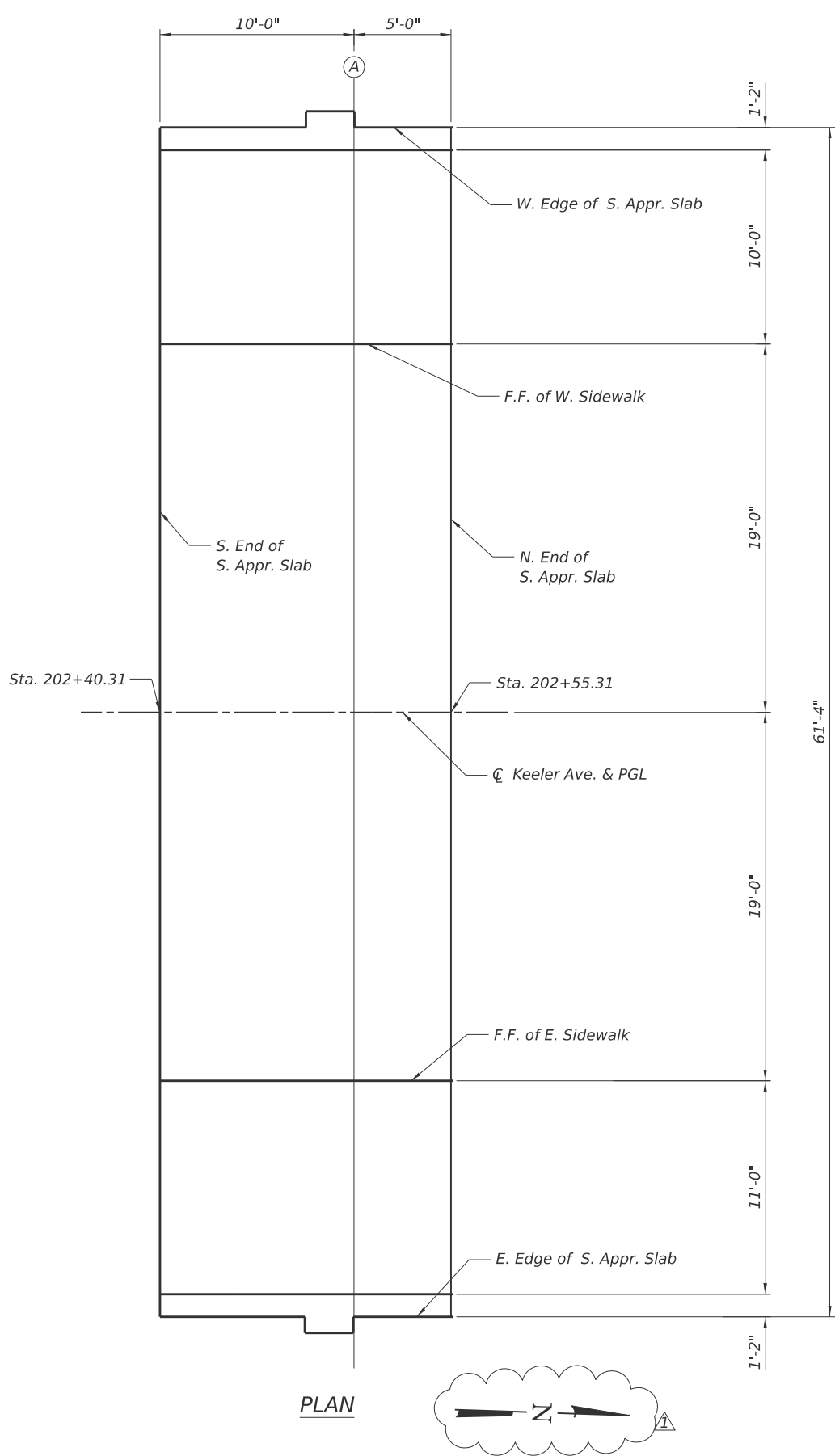
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS (1 OF 4)
STRUCTURE NO. 016-2093

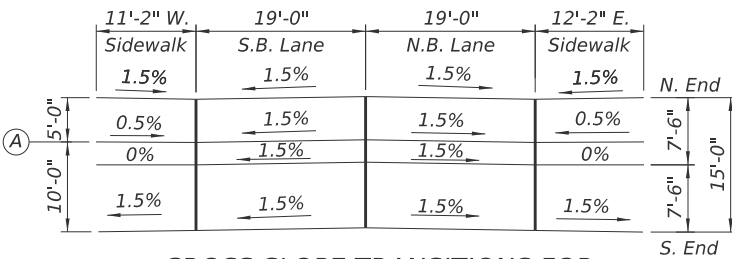
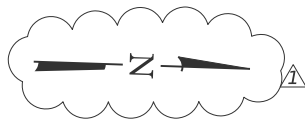
SHEET S-12 OF 63 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62U41				
ILLINOIS FED. AID PROJECT				

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PLAN



CROSS SLOPE TRANSITIONS FOR
TOP OF APPR. SLAB

W. EDGE OF S. APPR. SLAB

Location	Station	Offset	PGL	Theoretical Grade Elevation
S. End S. Appr. Slab	202+40.31	-30.17	604.85	603.99
A	202+50.31	-30.17	605.27	604.63
N. End S. Appr. Slab	202+55.31	-30.17	605.46	604.93

F.F. OF W. SIDEWALK

Location	Station	Offset	PGL	Theoretical Grade Elevation
S. End S. Appr. Slab	202+40.31	-19.00	604.85	604.15
A	202+50.31	-19.00	605.27	604.57
N. End S. Appr. Slab	202+55.31	-19.00	605.46	604.76

CL KEELER AVE. & PGL

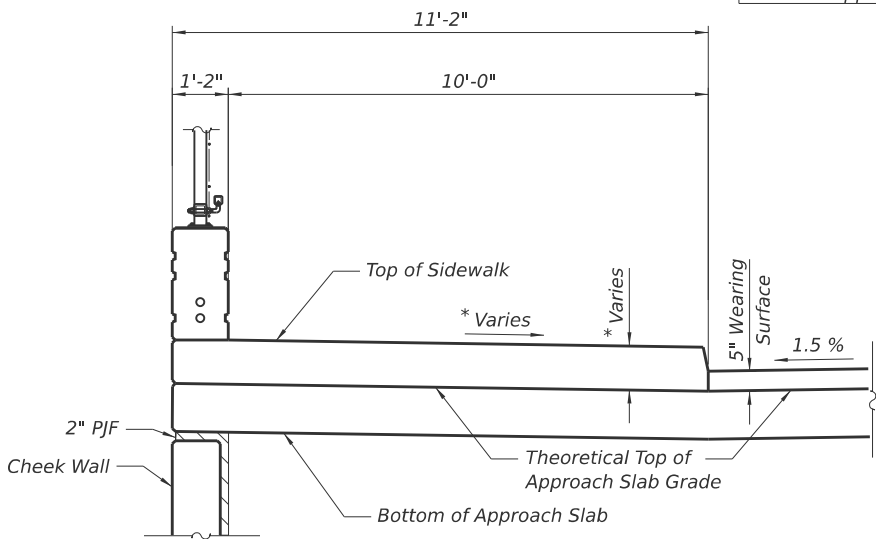
Location	Station	Offset	PGL	Theoretical Grade Elevation
S. End S. Appr. Slab	202+40.31	0.00	604.85	604.44
A	202+50.31	0.00	605.27	604.86
N. End S. Appr. Slab	202+55.31	0.00	605.46	605.05

F.F. OF E. SIDEWALK

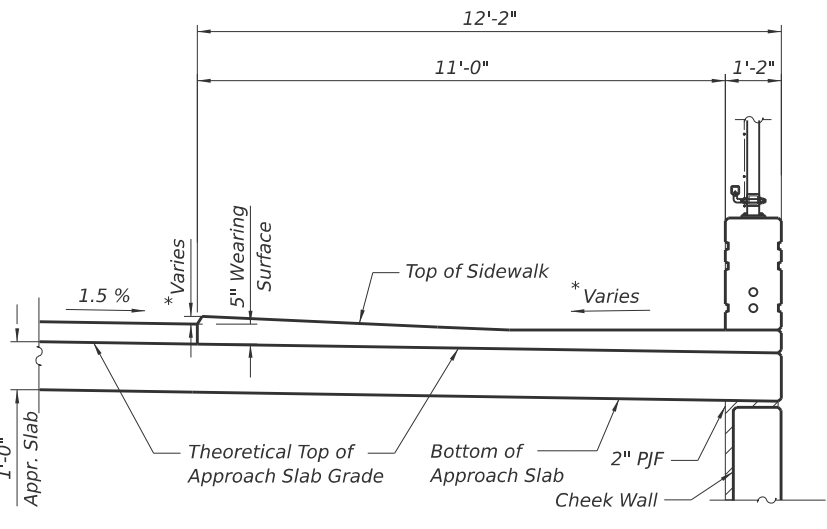
Location	Station	Offset	PGL	Theoretical Grade Elevation
S. End S. Appr. Slab	202+40.31	19.00	604.85	604.15
A	202+50.31	19.00	605.27	604.57
N. End S. Appr. Slab	202+55.31	19.00	605.46	604.76

E. EDGE OF S. APPR. SLAB

Location	Station	Offset	PGL	Theoretical Grade Elevation
S. End S. Appr. Slab	202+40.31	31.17	604.85	603.97
A	202+50.31	31.17	605.27	604.63
N. End S. Appr. Slab	202+55.31	31.17	605.46	604.94



LOCATION OF ELEVATION UNDER WEST SIDEWALK



LOCATION OF ELEVATION UNDER EAST SIDEWALK

* See Approach Slab Sheets

REVISD SHEET 10/22/2025



USER NAME = GM	DESIGNED - JMI	REVISED 1 - 9/11/2025
	CHECKED - GJH	REVISED -
PLOT SCALE =	DRAWN - JMI	REVISED -
PLOT DATE = 9/12/2025	CHECKED - GJH	REVISED -

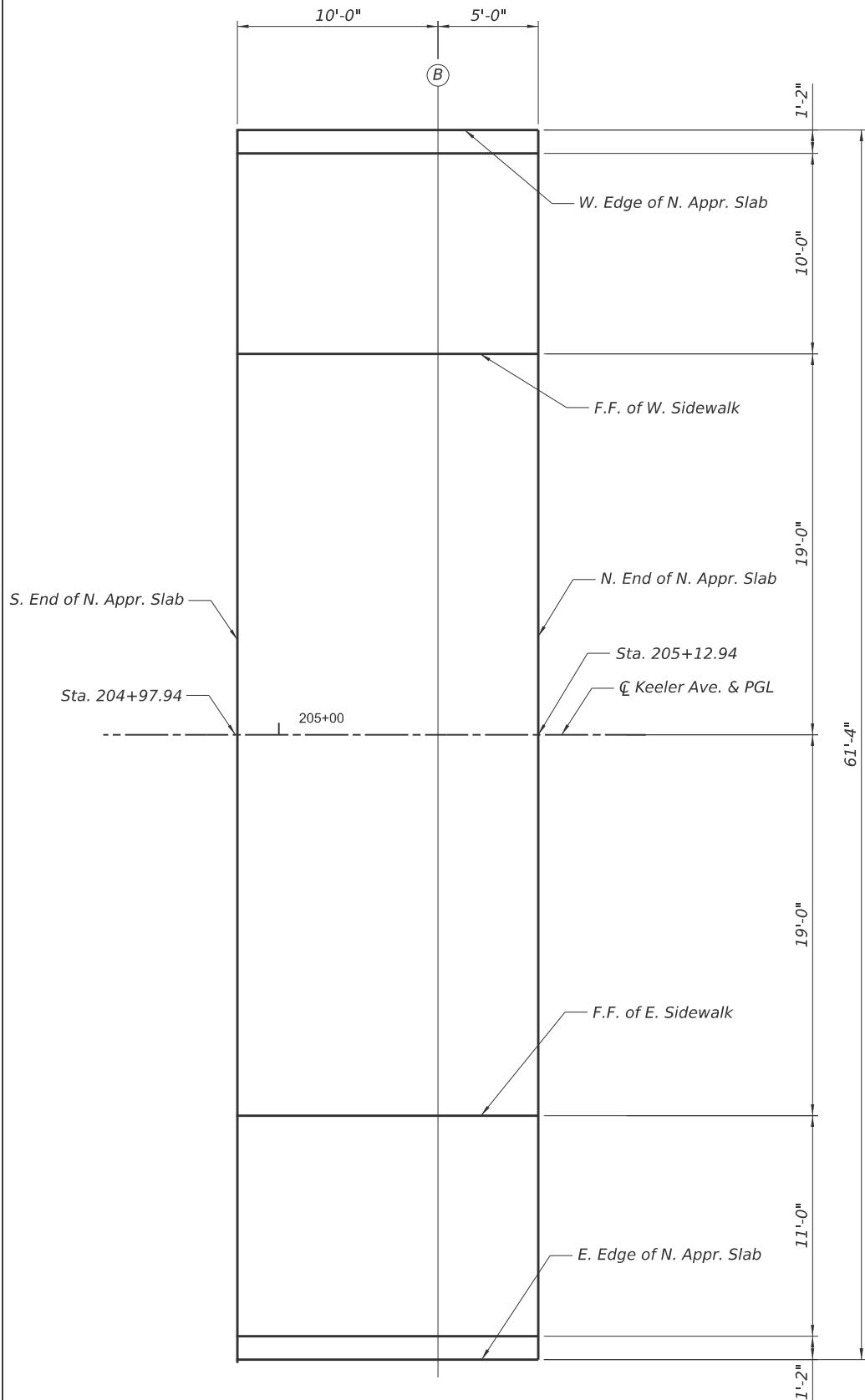
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SOUTH APPROACH SLAB ELEVATIONS
STRUCTURE NO. 016-2093

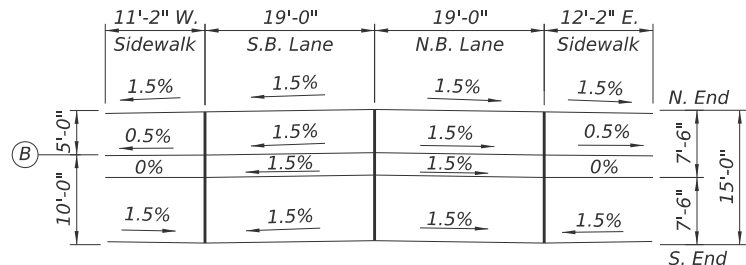
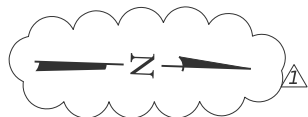
SHEET S-16 OF 63 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 KEELER BR	COOK	283	160
CONTRACT NO. 62U41				
ILLINOIS FED. AID PROJECT				

MODEL: N. Appr. Slab Elevations[Sheet]
FILE NAME: p:\civiltch-pw-bentley.com\civiltch-pw\Documents\Projects\CADD\CADD Sheets\17-Structures\162U41-SHT-017-N Approach Slab Elevations.dgn



PLAN



CROSS SLOPE TRANSITIONS FOR
TOP OF APPR. SLAB

W. EDGE OF N. APPR. SLAB

Location	Station	Offset	PGL	Theoretical Grade Elevation
S. End N. Appr. Slab	204+97.94	-30.17	605.43	604.90
B	205+07.94	-30.17	604.99	604.24
N. End N. Appr. Slab	205+12.94	-30.17	604.76	603.89

F.F. OF W. SIDEWALK

Location	Station	Offset	PGL	Theoretical Grade Elevation
S. End N. Appr. Slab	204+97.94	-19.00	605.43	604.73
B	205+07.94	-19.00	604.99	604.29
N. End N. Appr. Slab	205+12.94	-19.00	604.76	604.06

KEELER AVE. & PGL

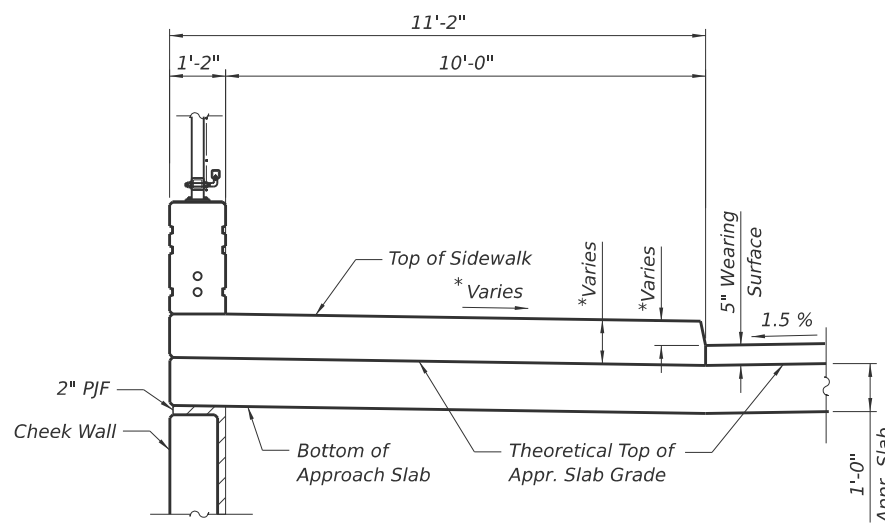
Location	Station	Offset	PGL	Theoretical Grade Elevation
S. End N. Appr. Slab	204+97.94	0.00	605.43	605.01
B	205+07.94	0.00	604.99	604.58
N. End N. Appr. Slab	205+12.94	0.00	604.76	604.34

F.F. OF E. SIDEWALK

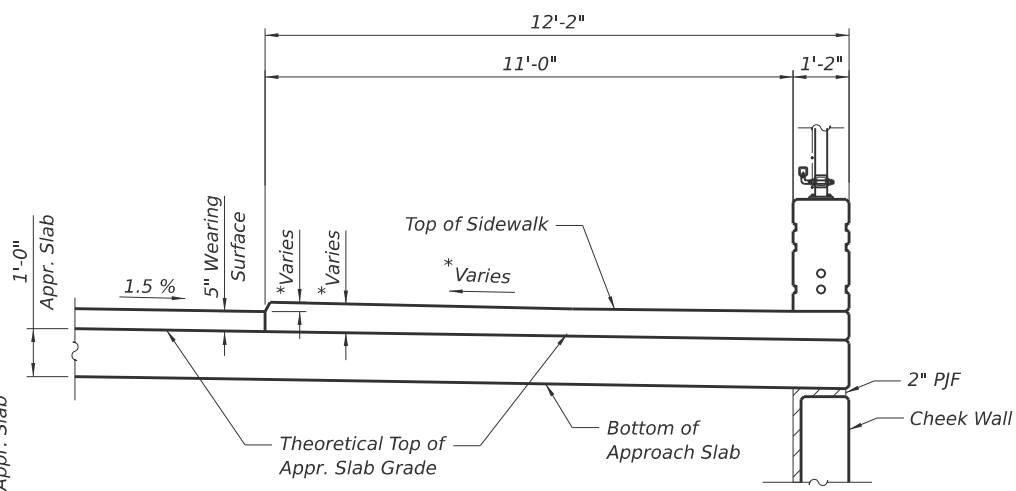
Location	Station	Offset	PGL	Theoretical Grade Elevation
S. End N. Appr. Slab	204+97.94	19.00	605.43	604.73
B	205+07.94	19.00	604.99	604.29
N. End N. Appr. Slab	205+12.94	19.00	604.76	604.06

E. EDGE OF N. APPR. SLAB

Location	Station	Offset	PGL	Theoretical Grade Elevation
S. End N. Appr. Slab	204+97.94	31.17	605.43	604.91
B	205+07.94	31.17	604.99	604.23
N. End N. Appr. Slab	205+12.94	31.17	604.76	603.88



LOCATION OF ELEVATION UNDER WEST SIDEWALK



LOCATION OF ELEVATION UNDER EAST SIDEWALK

*See Approach Slab Sheets

1 REVISED SHEET 10/22/2025



USER NAME = GM	DESIGNED - JMI	REVISED 1 - 9/11/2025
	CHECKED - GJH	REVISED -
PLOT SCALE =	DRAWN - JMI	REVISED -
PLOT DATE = 9/12/2025	CHECKED - GJH	REVISED -

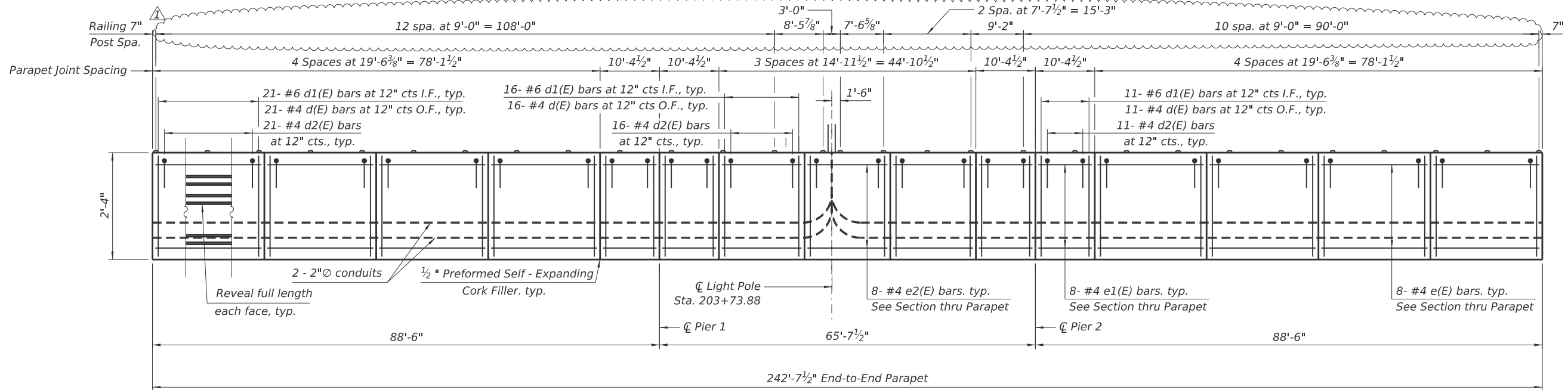
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF NORTH APPROACH SLAB ELEVATIONS
STRUCTURE NO. 016-2093

SHEET S-17 OF 63 SHEETS

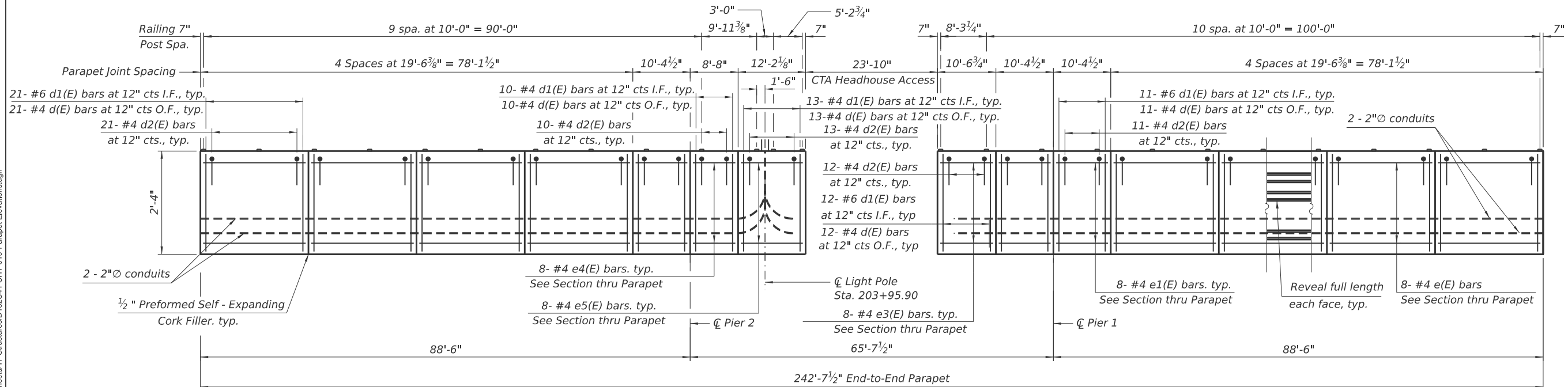
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 KEELER BR	COOK	283	161
CONTRACT NO. 62U41				
ILLINOIS FED. AID PROJECT				

MODEL: Parapets Elevation-(Sheet)
FILE NAME: p:\civiltch-pw-bentley.com\d1tech-pw\Documents\Projects\3855\CAD\DD Sheets\17-Structures\162U41-SHT-016-Parapet Elevations.dgn



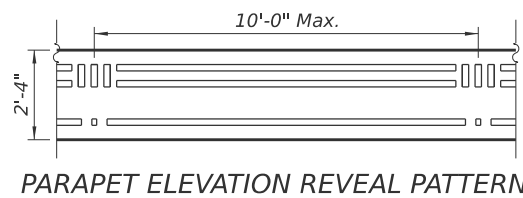
INSIDE ELEVATION OF WEST PARAPET

(Looking West)



INSIDE ELEVATION OF EAST PARAPET

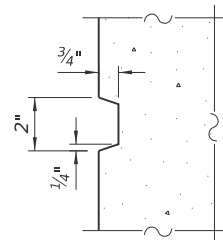
(Looking East)



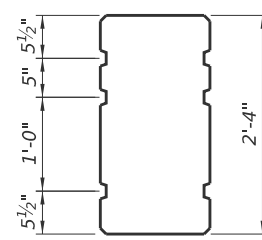
PARAPET ELEVATION REVEAL PATTERN

NOTE:

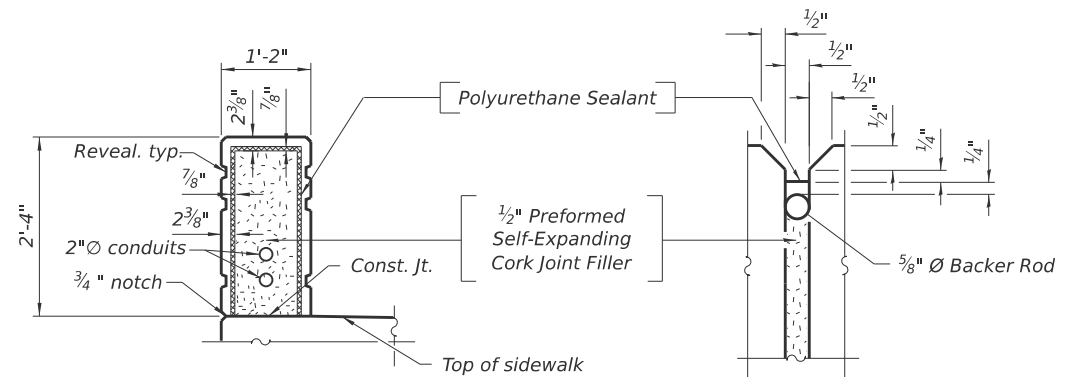
1. For bar diagrams, section through parapet, reveal detail, and bill of material, see sheet S-21.
2. The polyurethane sealant shall be according to Article 1050.04 of the Standard Specifications and the color shall be gray.
3. All edges shall be chamfered 3/4".
4. For bridge railing, curved layout and details, see sheet S-27 thru S-28.
5. For bridge mounted sign details, see civil sheets.
6. The cost of reveal is included in cost of Concrete Superstructure.



REVEAL DETAIL



PARAPET CROSS SECTION



PARAPET JOINT DETAILS

REVISED SHEET 10/22/2025



USER NAME = GM	DESIGNED - GM	REVISED 1 - 9/11/2025
	CHECKED - GJH	REVISED -
PLOT SCALE =	DRAWN - GM	REVISED -
PLOT DATE = 9/16/2025	CHECKED - GJH	REVISED -

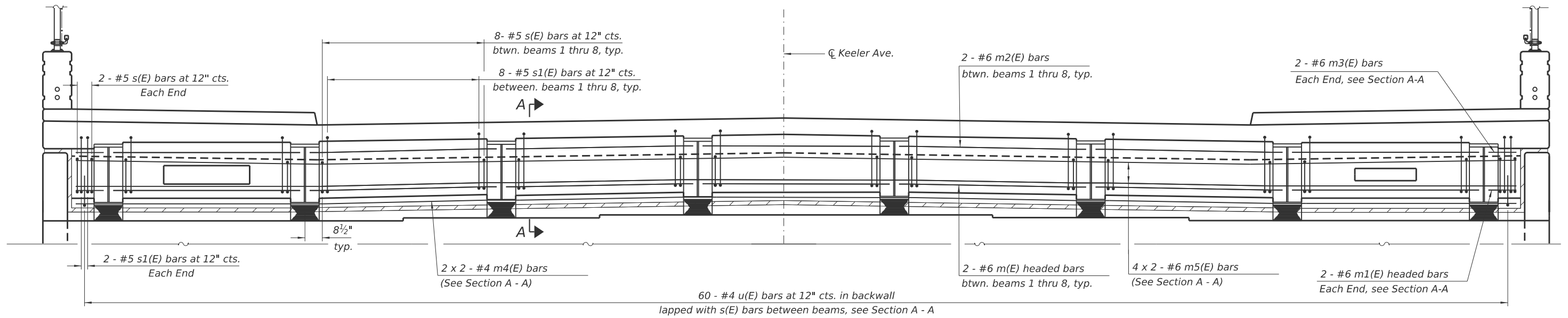
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PARAPETS ELEVATION
STRUCTURE NO. 016-2093

SHEET S-19 OF 63 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 KEELER BR	COOK	283	163
CONTRACT NO. 62U41				
ILLINOIS FED. AID PROJECT				

MODEL: Abut. Diaphragm Elev. and Det. - (Sheet)
FILE NAME: p:\civiltch-pw-bentley.com\civiltch-pw\Documents\Projects\3855\CAD\CADD Sheets\17-Structures\162U41-SHT-020-Abut Diaphragm Elev and Det



MINIMUM BAR LAP

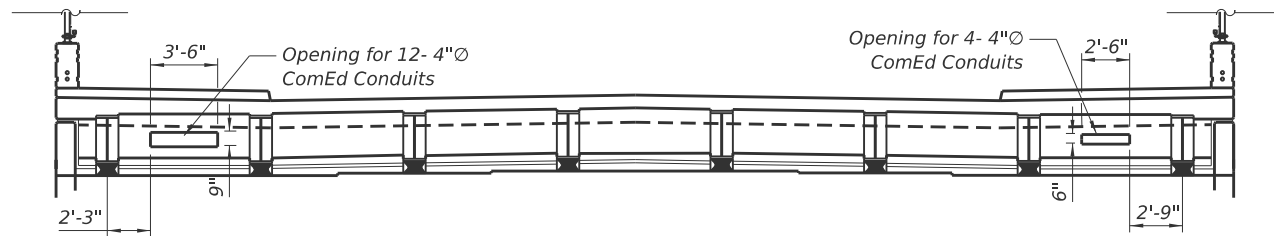
#4 bar = 2'-2"
#6 bar = 3'-6"

DIAPHRAGM AT NORTH ABUTMENT

(Diaphragm at South Abutment Similar Opposite Hand)

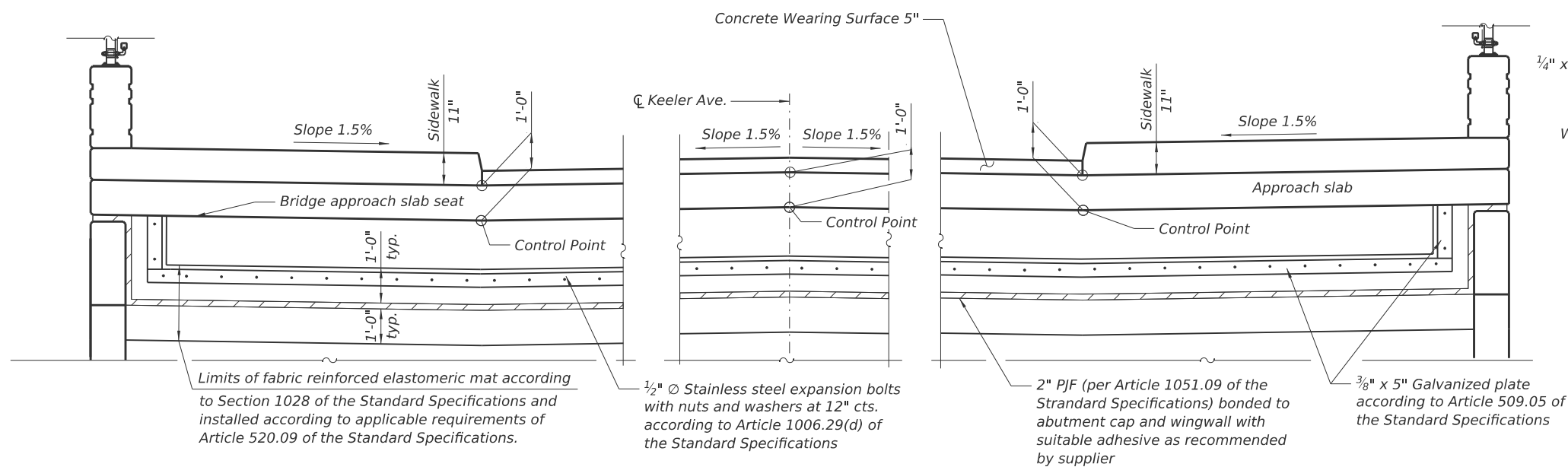
NOTES:

- Cost of fabric reinforced elastomeric mat, galvanized plate, stainless steel expansion bolts with nuts and washers and installation are included in the cost of Concrete Superstructure.
- For superstructure details, bar diagrams and Bill of Materials, see Sheet S-21.
- Reinforcement bars in diaphragms are billed with the superstructure on Sheet S-21.
- Concrete in diaphragm is included with Concrete Superstructure on Sheet S-21.
- For bearing details, see Sheet S-32 to S-33.
- The approach slab seat shall have a constant slope determined from the control points shown.

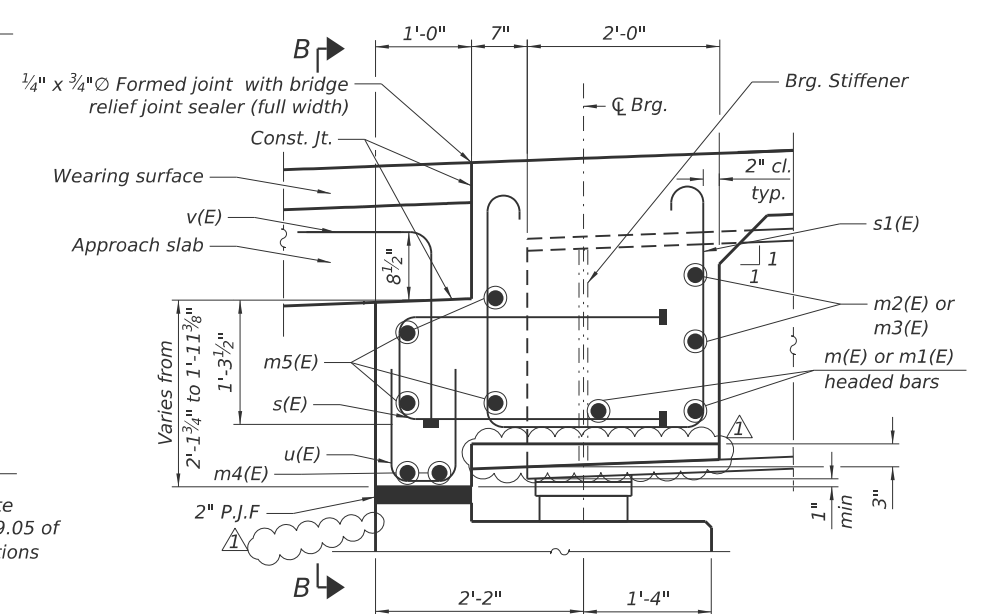


CONDUIT OPENING DETAILS AT NORTH ABUTMENT

Openings at South Abutment Similar Opposite Hand)



VIEW B-B



SECTION A-A

REVISED SHEET 10/22/2025



USER NAME = GM	DESIGNED - GM	REVISED 1 - 9/11/2025
	CHECKED - GJH	REVISED -
PLOT SCALE =	DRAWN - GM	REVISED -
PLOT DATE = 9/12/2025	CHECKED - GJH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

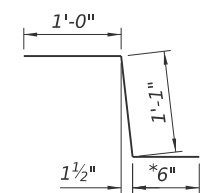
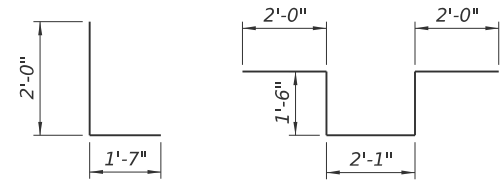
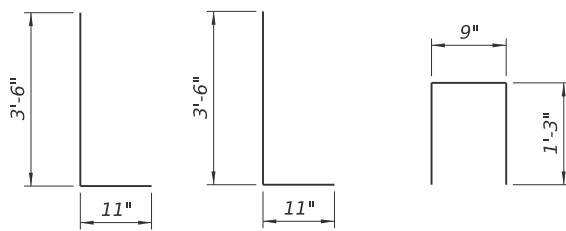
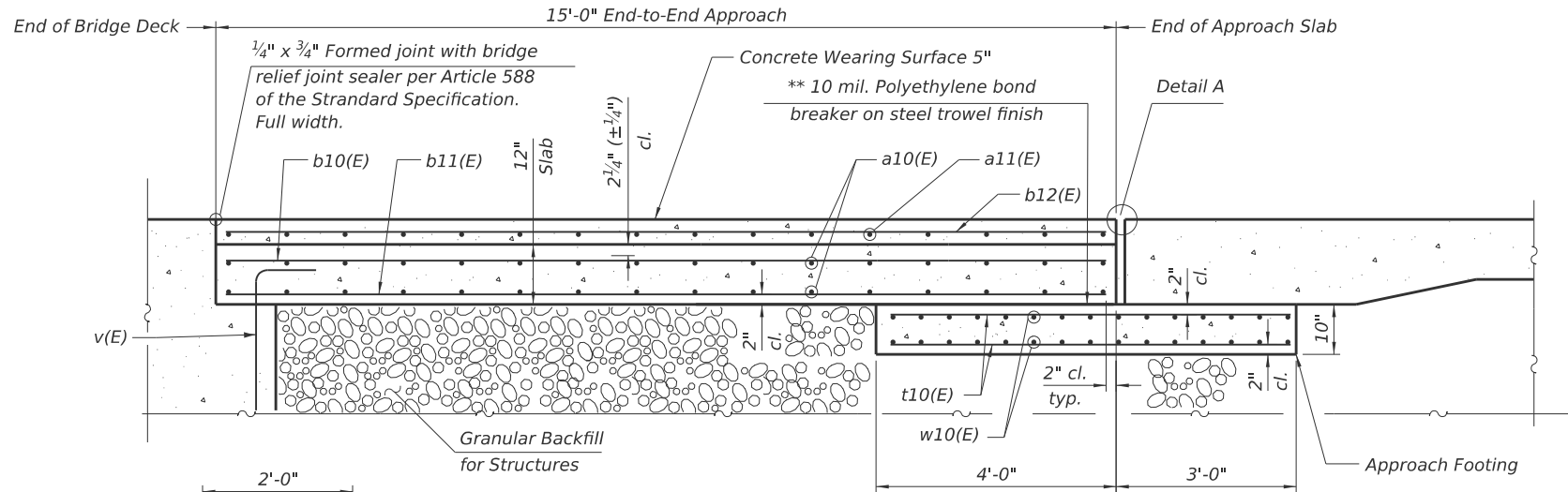
ABUTMENT DIAPHRAGM ELEVATION AND DETAILS
STRUCTURE NO. 016-2093

SHEET S-20 OF 63 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 KEELER BR	COOK	283	164
CONTRACT NO. 62U41				
ILLINOIS FED. AID PROJECT				



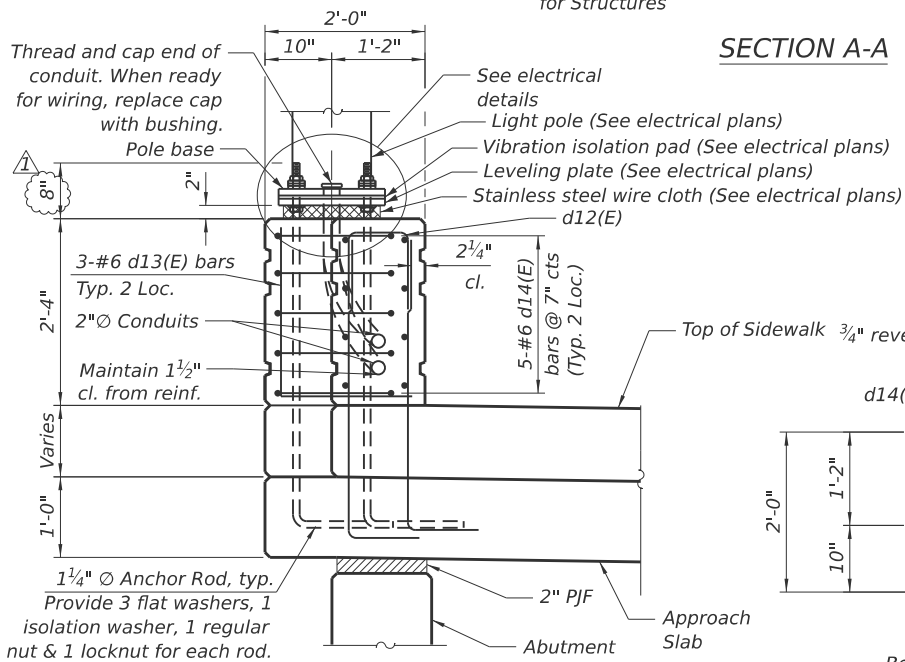
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FILE NAME: p:\w\civiltech-h-pw-bentley.com\civiltech-h-pw\Documents\Projects\3855\CADD\CADD Sheets\17-Structures\17-Approach Slab Details



** Cost included with Concrete Superstructure (Approach Slab)
*** Per manufacturer recommendations
**** Refer to grading plans for top of sidewalk slopes and elevations on sheets 79 & 80
***** See Cross Slope Transitions for Top of App. Slab on sheet S-16

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a10(E)	64	#5	31'-7"	
a11(E)	16	#4	37'-8"	
b10(E)	87	#5	14'-8"	
b11(E)	93	#7	14'-8"	
b12(E)	39	#4	14'-8"	
c10(E)	32	#5	2'-7"	
c11(E)	16	#5	10'-10"	
c12(E)	16	#5	11'-10"	
d10(E)	32	#4	4'-5"	
d11(E)	32	#6	4'-5"	
d12(E)	32	#4	3'-3"	
d13(E)	6	#6	3'-7"	
d14(E)	10	#6	9'-1"	
e10(E)	16	#4	14'-8"	
t10(E)	120	#4	6'-8"	
w10(E)	60	#5	30'-6"	
Concrete Structures			Cu Yd	12.8
Concrete Superstructure			Cu Yd	15.3
Bridge Deck Grooving			Sq Yd	60
Protective Coat			Sq Yd	112
Concrete Superstructure (Approach Slab)			Cu Yd	34.1
Reinforcement Bars, Epoxy Coated			Pound	10,630
Concrete Wearing Surface, 5"			Sq Yd	64

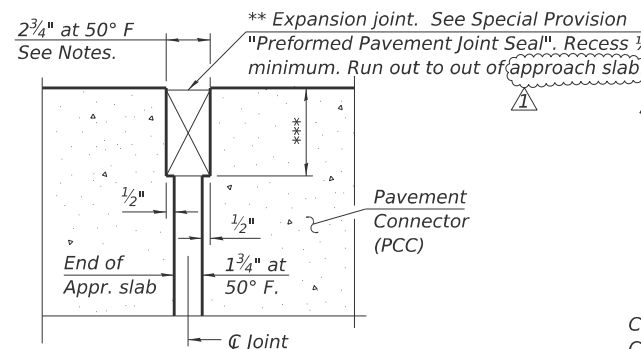
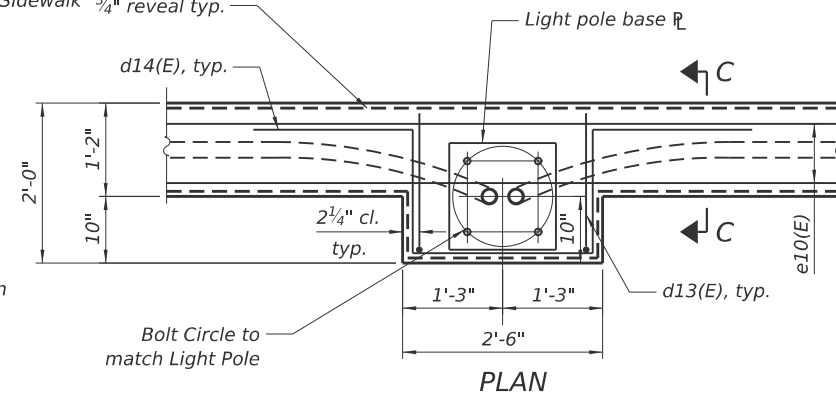


Notes:
The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.
Cost of excavation for approach footing included with Concrete Structures.
For Granular Backfill for Structures and drainage treatment details, see sheet S-37
For Reveal details, see sheet S-19

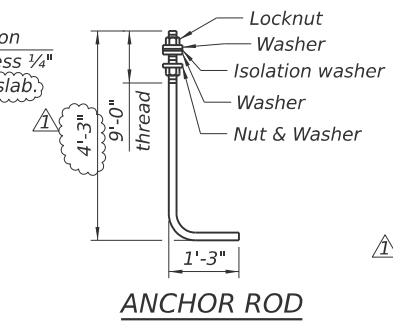
SECTION A-A

SECTION C-C

PARAPET DETAIL AT LIGHTPOLE



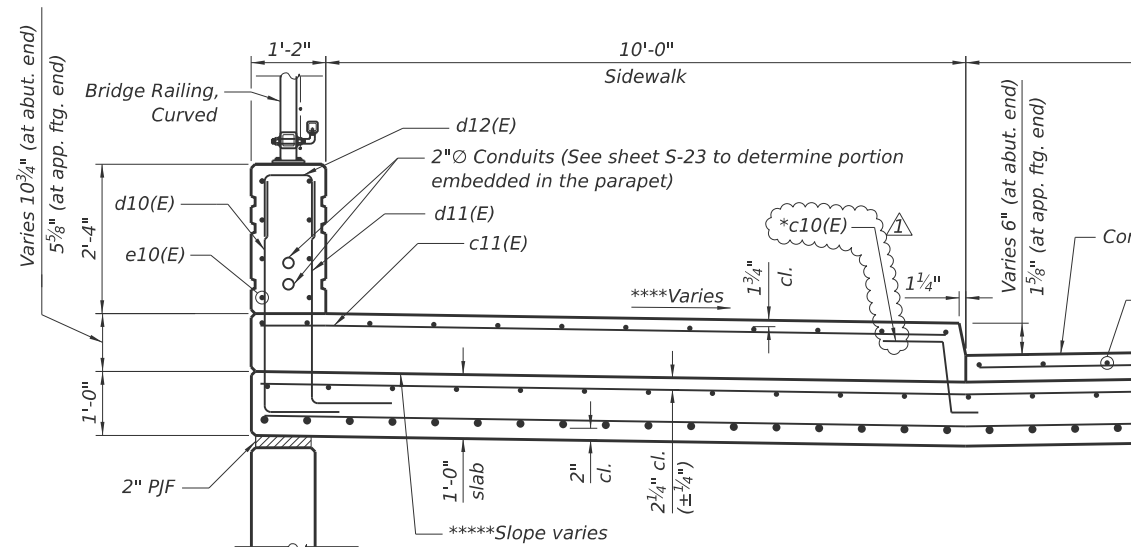
DETAIL A



Cost of anchor rods is included with Concrete Superstructure (ASTM f 1554 Grade 105) Full length hot dipped galvanized

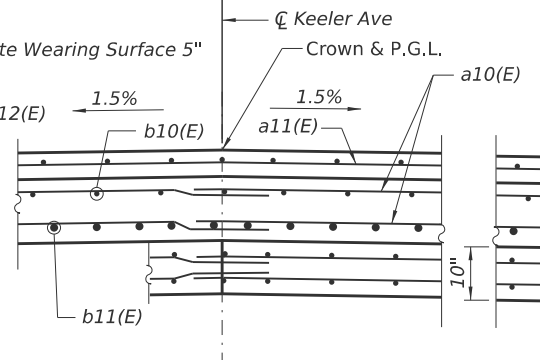
* In lieu of bottom leg, c10(E) bars may be drilled and set according to Article 509.06 of the Standard Specifications. Drilled holes shall be roughened or scored per manufacturer's recommendations. Maximum depth of drilled hole shall not exceed 6".

Contractor shall take all necessary precautions to prevent drilled hole interference with deck reinforcement bars. Locate longitudinal bars to miss drilled locations. Locate drilled holes to miss transverse bars in deck.

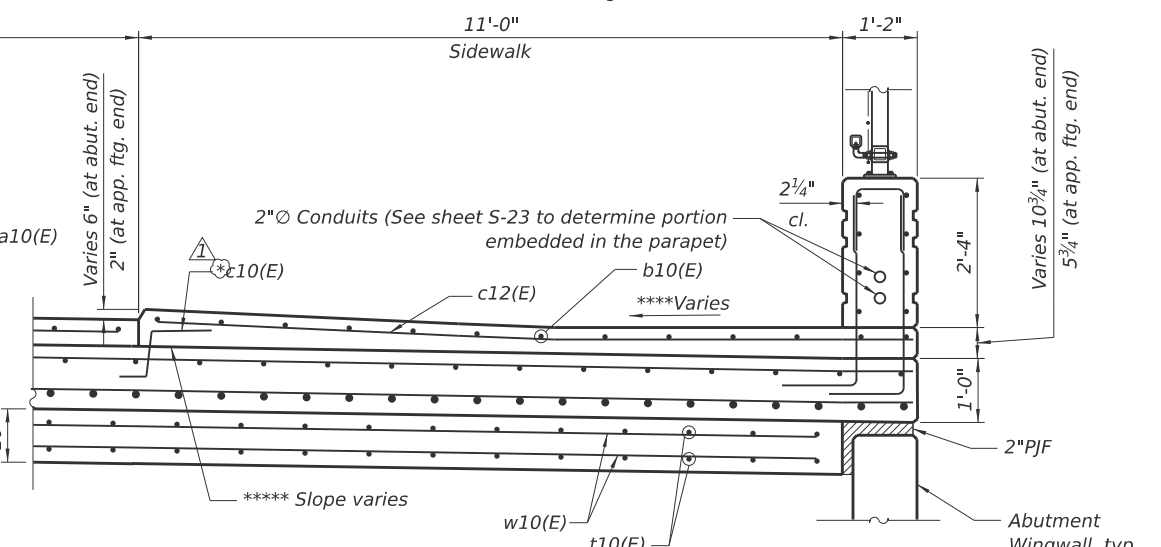


NEAR ABUTMENT

SECTION B-B (Looking Up-Station)



AT APPROACH FOOTING



REVISD SHEET 10/22/2025



USER NAME = Greg Hattestad	DESIGNED - GM	REVISED 1 - 9/11/2025
	CHECKED - GJH	REVISED -
PLOT SCALE =	DRAWN - GM	REVISED -
PLOT DATE = 10/13/2025	CHECKED - GJH	REVISED -

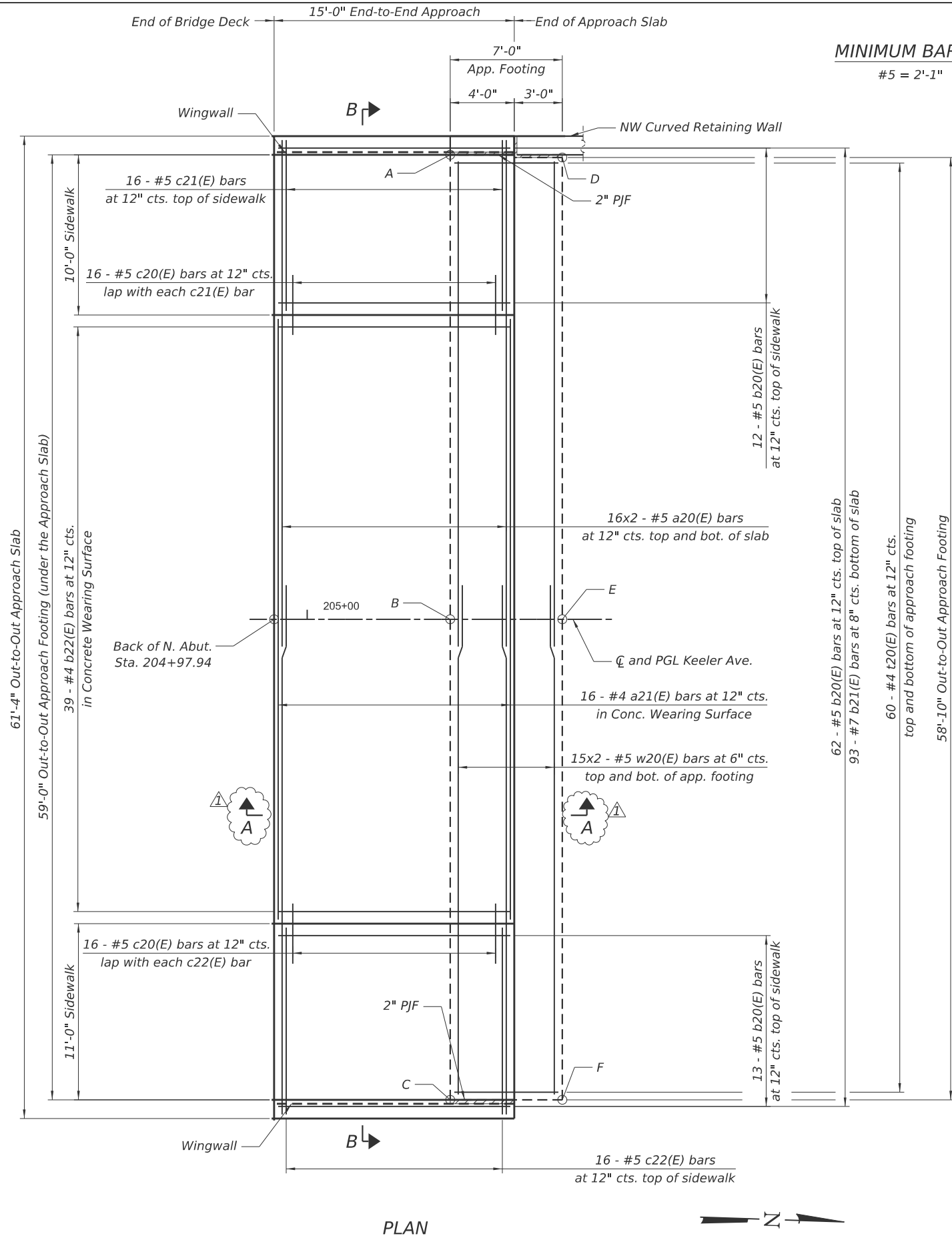
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH APPROACH SLAB (2 OF 2)
STRUCTURE NO. 016-2093

SHEET S-24 OF 63 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 KEELER BR	COOK	283	168
CONTRACT NO. 62U41				
ILLINOIS FED. AID PROJECT				

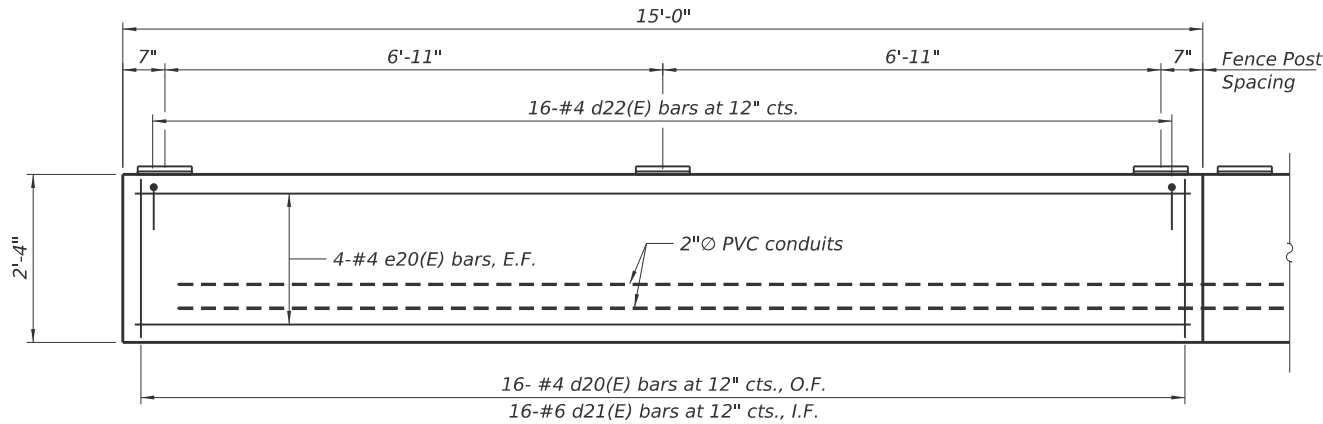
MODEL: N. Appr. Slab Plan [Sheet]
FILE NAME: p:\civiltech-pw-bentley.com\d\civiltech-pw\Documents\Projects\3855\CAD\CADD Sheets\17-Structures\162U41-SHT-025- North Approach Slab Plan



PLAN

MINIMUM BAR LAP

#5 = 2'-1"



INSIDE ELEVATION OF PARAPET

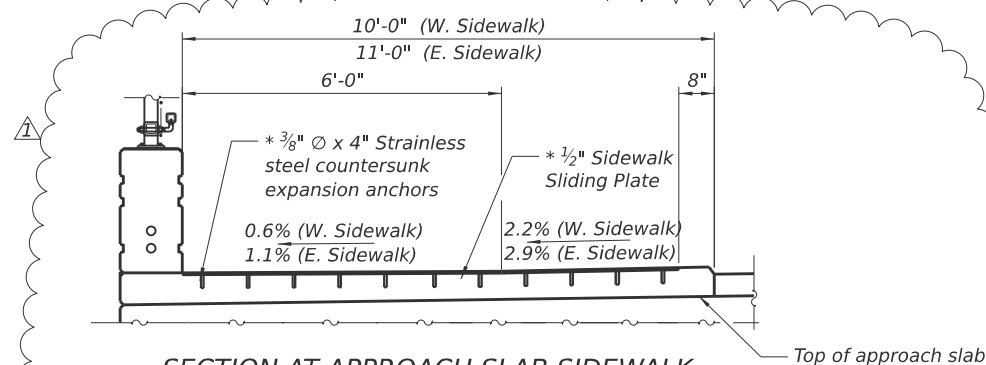
(East Parapet shown. West Parapet similar - opposite hand)

NOTE:

- For section A-A, section B-B, Notes, Bill of Material, see Sheet S-26.
- Approach slab concrete shall be paid for as Concrete Superstructure (Approach Slab).
- Approach footing concrete shall be paid for as Concrete Structures.
- Sidewalk and parapet concrete shall be paid for as Concrete Superstructure.
- The approach footing maximum applied service bearing pressure (Q_{max}) = 2.0 ksf.
- See Sheet 80 for ADA sidewalk grading.

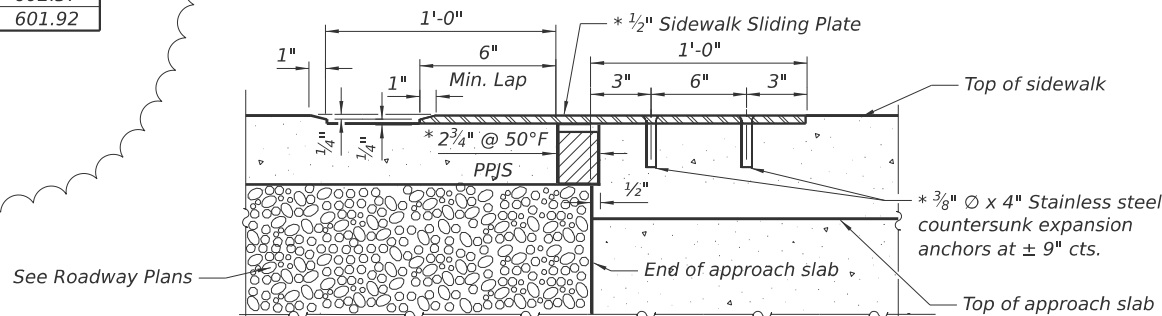
TOP AND BOTTOM ELEVATIONS
FOR NORTH APPROACH FOOTING

Approach		
Point/ Location	Top	Bottom
A	603.17	602.34
B	603.53	602.70
C	603.17	602.33
D	602.77	601.94
E	603.21	602.37
F	602.76	601.92



SECTION AT APPROACH SLAB SIDEWALK

* Cost included with Concrete Superstructure (Approach Slab)



APPROACH SLAB SIDEWALK SLIDING PLATE DETAIL

* See Detail A on Sheet S-26 for more expansion joint information.

REVISED SHEET 10/22/2025

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH APPROACH SLAB (1 OF 2)
STRUCTURE NO. 016-2093

SHEET S-25 OF 63 SHEETS

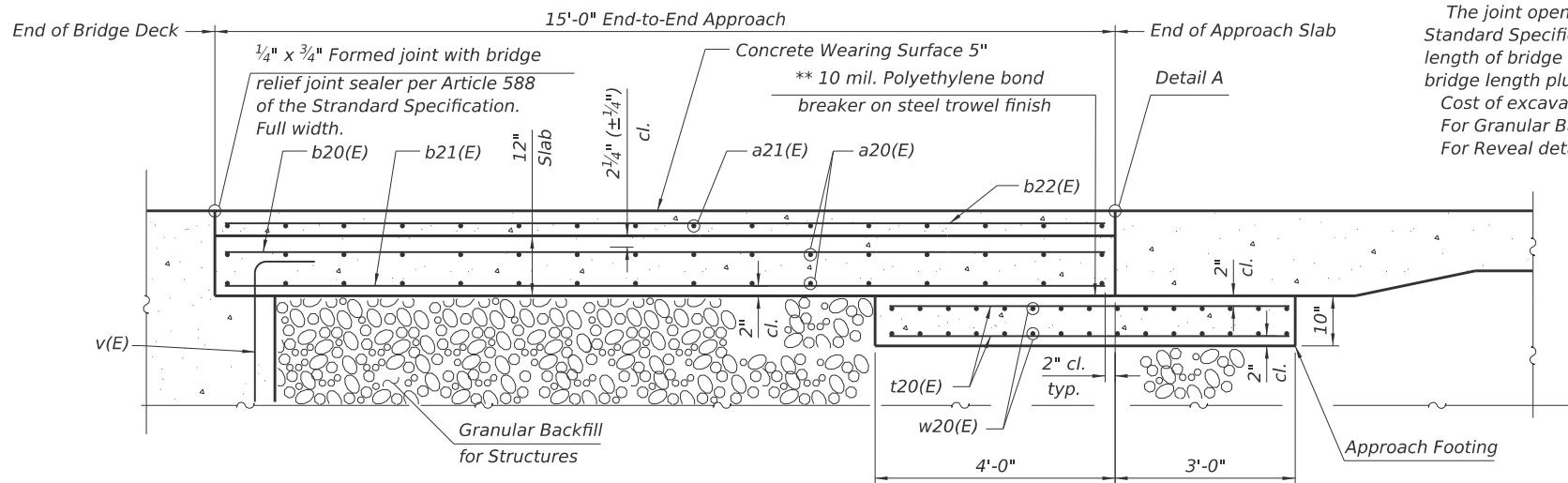
FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 KEELER BR	COOK	283	169
CONTRACT NO. 62U41				
ILLINOIS FED. AID PROJECT				



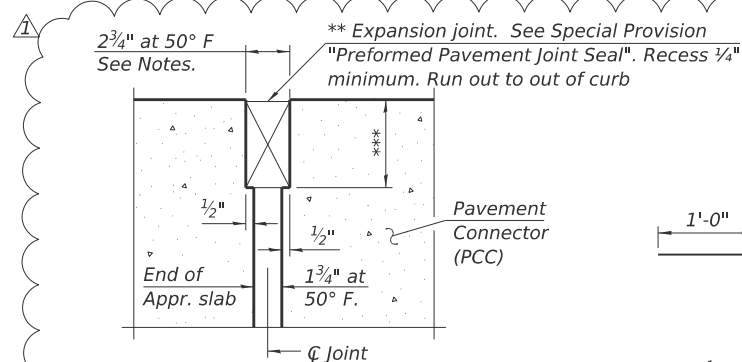
USER NAME = Greg Hatlestad
PLOT SCALE =
PLOT DATE = 10/13/2025

DESIGNED - GM
CHECKED - GJH
DRAWN - GM
CHECKED - GJH
REVISED - 9/11/2025
REVISED -
REVISED -
REVISED -

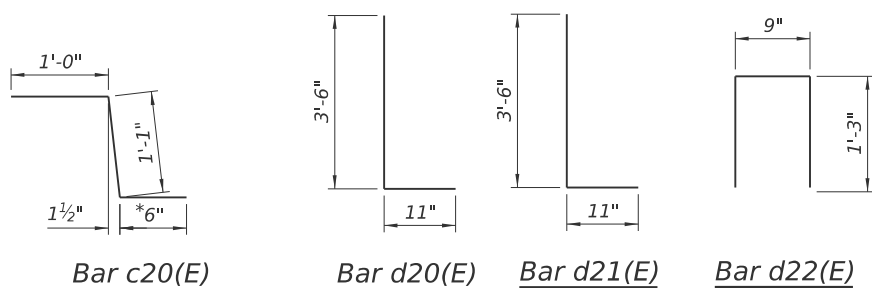
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SECTION A-A



DETAIL A



Notes:

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

Cost of excavation for approach footing included with Concrete Structures.

For Granular Backfill for Structures and drainage treatment details, see sheet S-37

For Reveal details, see sheet S-19

* In lieu of bottom leg, c20(E) bars may be drilled and set according to Article 509.06 of the Standard Specifications. Drilled holes shall be roughened or scored per manufacturer's recommendations. Maximum depth of drilled hole shall not exceed 6".

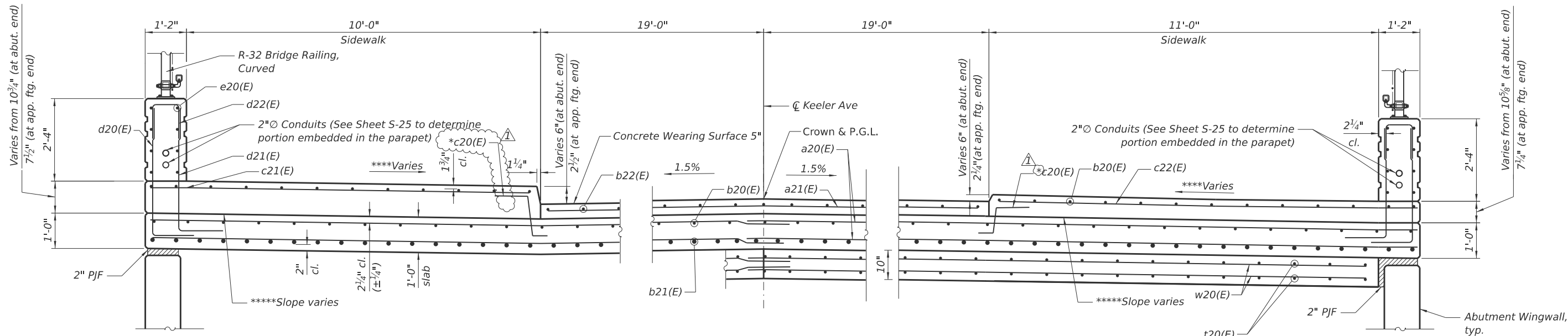
Contractor shall take all necessary precautions to prevent drilled hole interference with deck reinforcement bars. Locate longitudinal bars to miss drilled locations. Locate drilled holes to miss transverse bars in deck.

** Cost included with Concrete Superstructure (Approach Slab)

*** Per manufacturer recommendations

**** Refer to grading plans for top of sidewalk slopes and elevations on sheets 79 & 80

***** See Cross Slope Transitions for Top of App. Slab on sheet S-16



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a20(E)	64	#5	31'-7"	
a21(E)	16	#4	37'-8"	
b20(E)	87	#5	14'-8"	
b21(E)	93	#7	14'-8"	
b22(E)	39	#4	14'-8"	
c20(E)	32	#5	2'-7"	
c21(E)	16	#5	10'-10"	
c22(E)	16	#5	11'-10"	
d20(E)	32	#4	4'-5"	
d21(E)	32	#6	4'-5"	
d22(E)	32	#4	3'-3"	
e20(E)	16	#4	14'-8"	
t20(E)	120	#4	6'-8"	
w20(E)	60	#5	30'-6"	
Concrete Structures			Cu Yd	12.8
Concrete Superstructure			Cu Yd	15.0
Bridge Deck Grooving			Sq Yd	60
Protective Coat			Sq Yd	112
Concrete Superstructure (Approach Slab)			Cu Yd	34.1
Reinforcement Bars, Epoxy Coated			Pound	10,460
Concrete Wearing Surface, 5"			Sq Yd	64

REVISION 10/22/2025



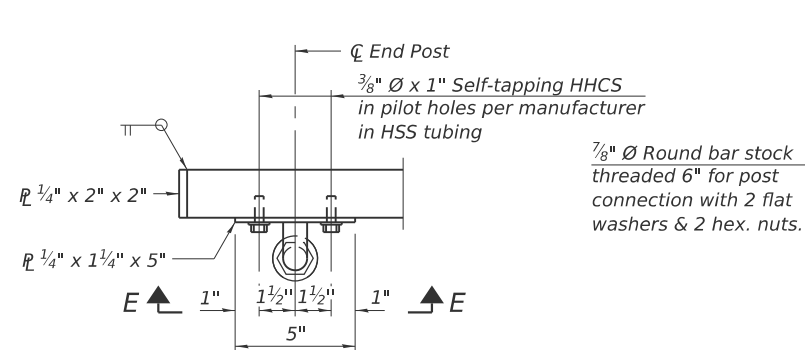
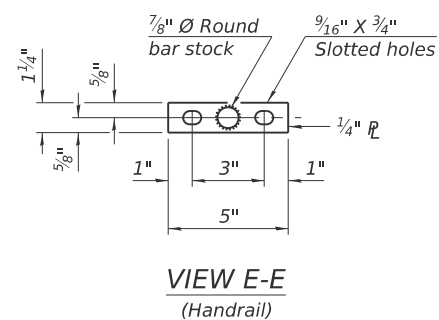
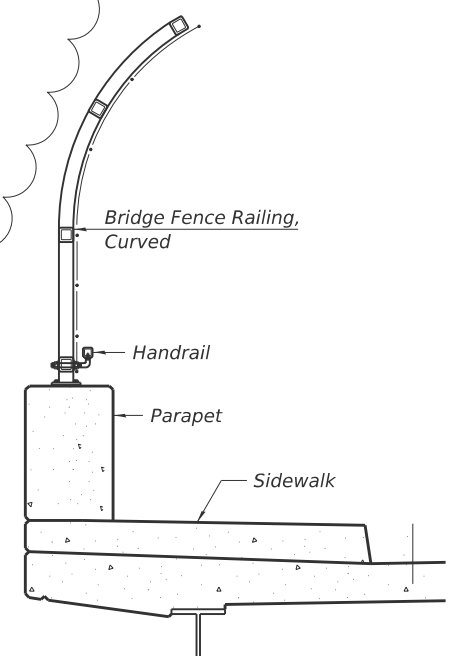
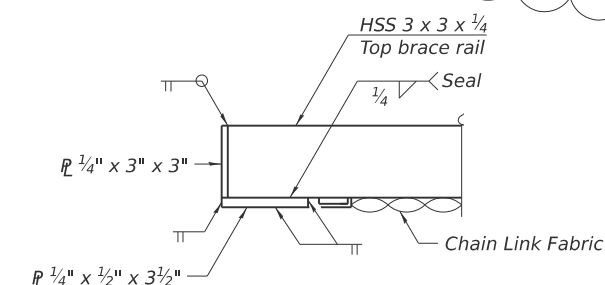
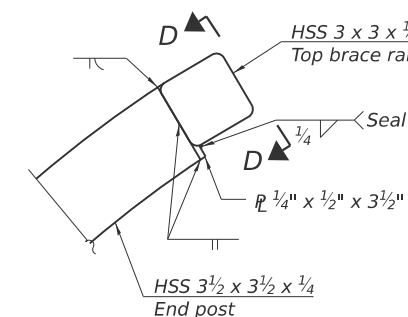
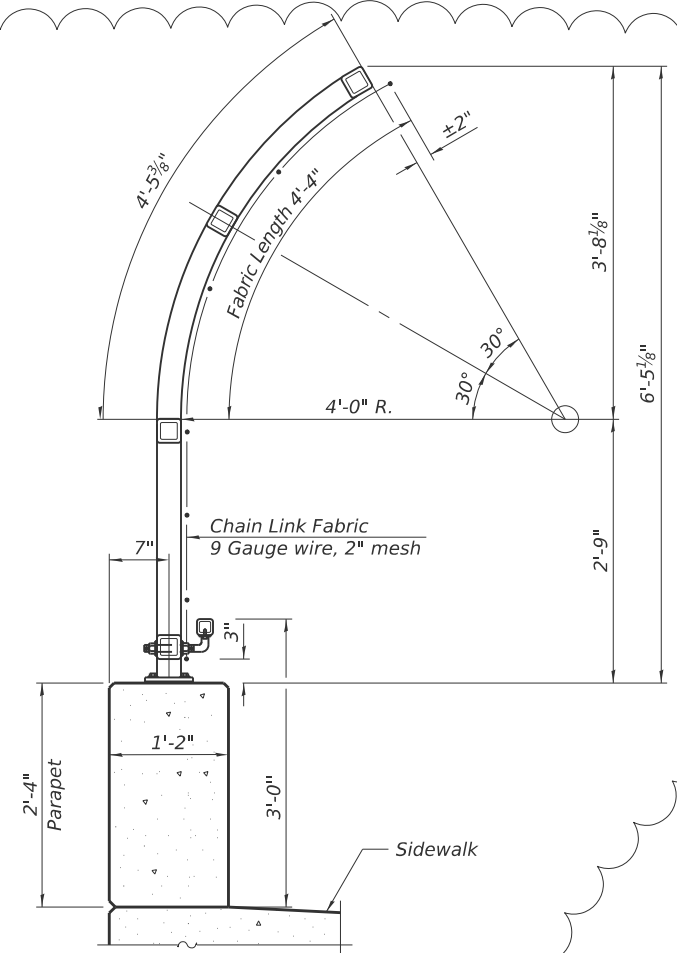
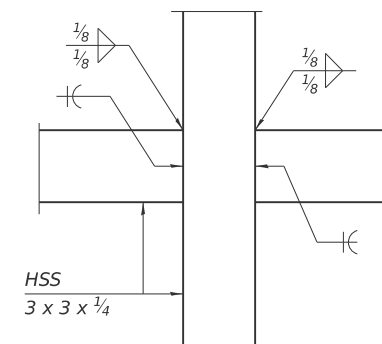
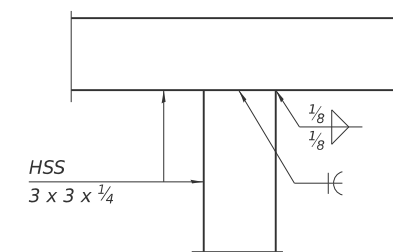
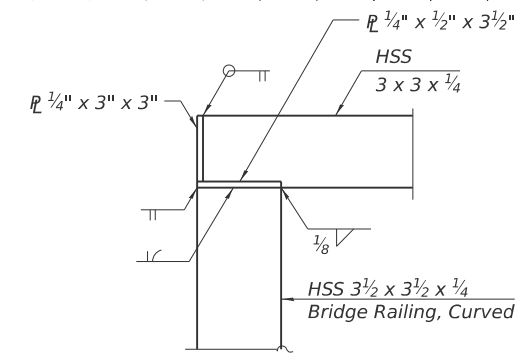
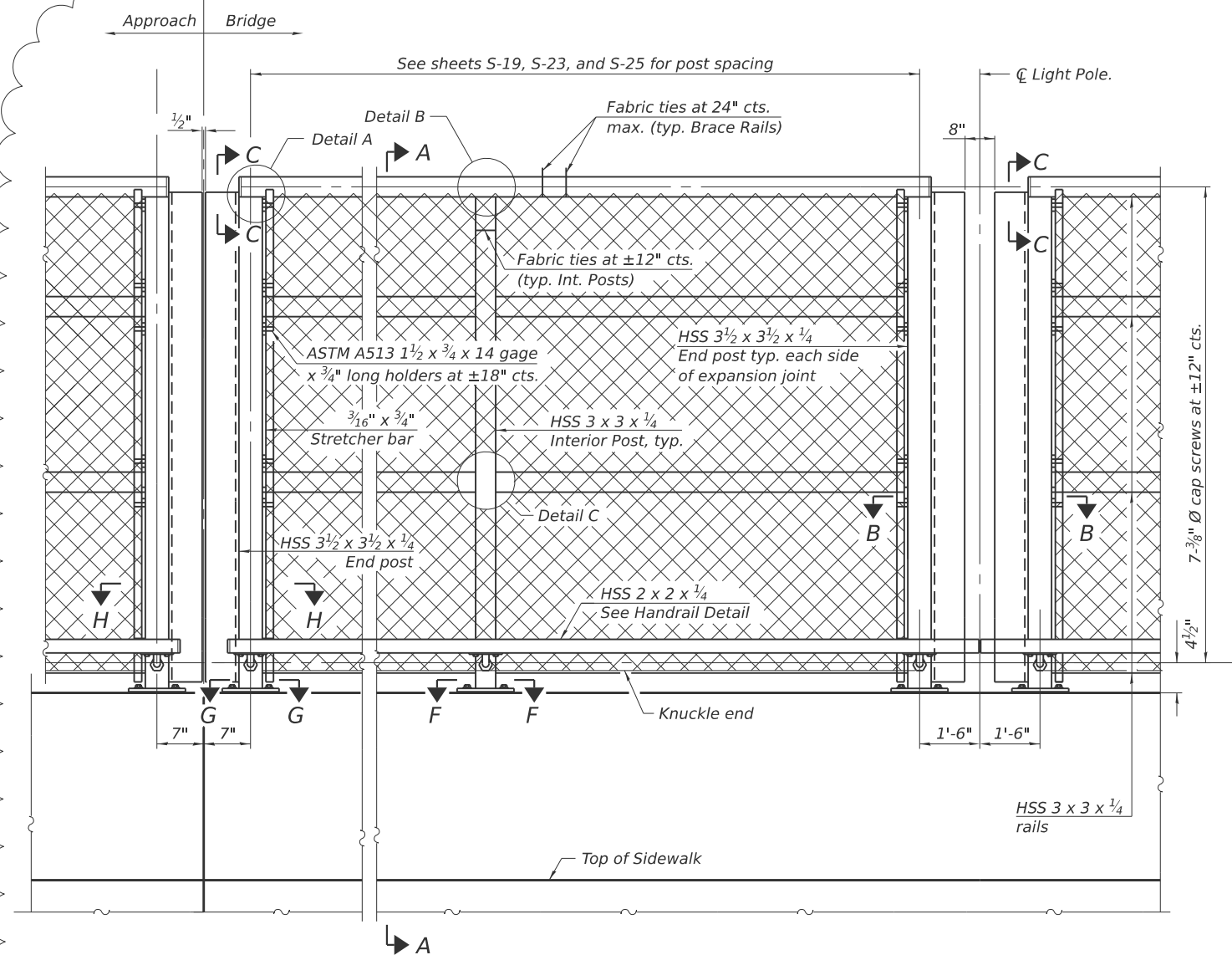
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PLOT DATE = 9/17/2025	CHECKED - GJH	REVISION -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH APPROACH SLAB (2 OF 2)
STRUCTURE NO. 016-2093

SHEET S-26 OF 63 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 KEELER BR	COOK	283	170
CONTRACT NO. 62U41				
ILLINOIS FED. AID PROJECT				



RAILING CRITERIA

NCHRP 350 Test Level	4
Railing Weight (plf)	70
Max Post Spacing	10'-0"

R-32 (Modified)

4-4-2025

USER NAME = GM	DESIGNED - GM	REVISED ¹ - 9/11/2025
	CHECKED - GJH	REVISED -
PLOT SCALE =	DRAWN - GM	REVISED -
PLOT DATE = 9/17/2025	CHECKED - GJH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE FENCE RAILING, CURVED (1 OF 2)
STRUCTURE NO. 016-2093

(Sheet 1 of 2)

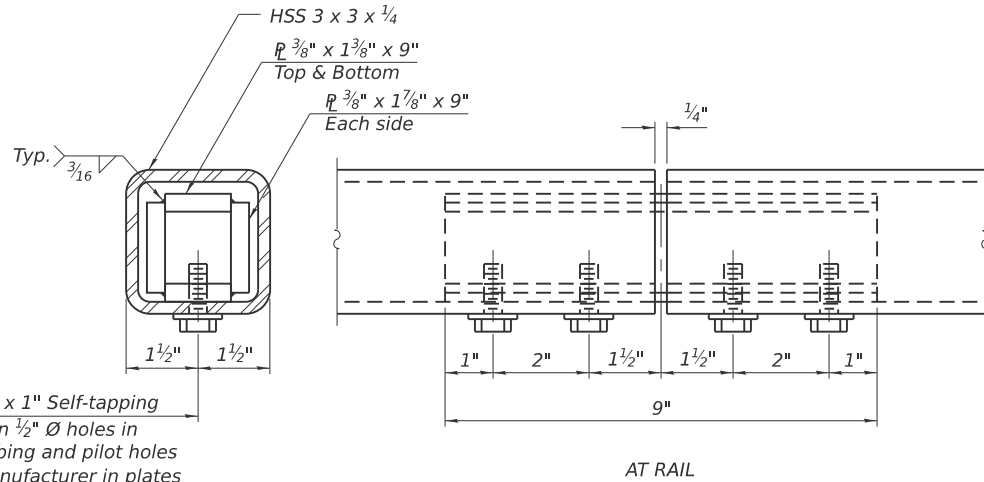
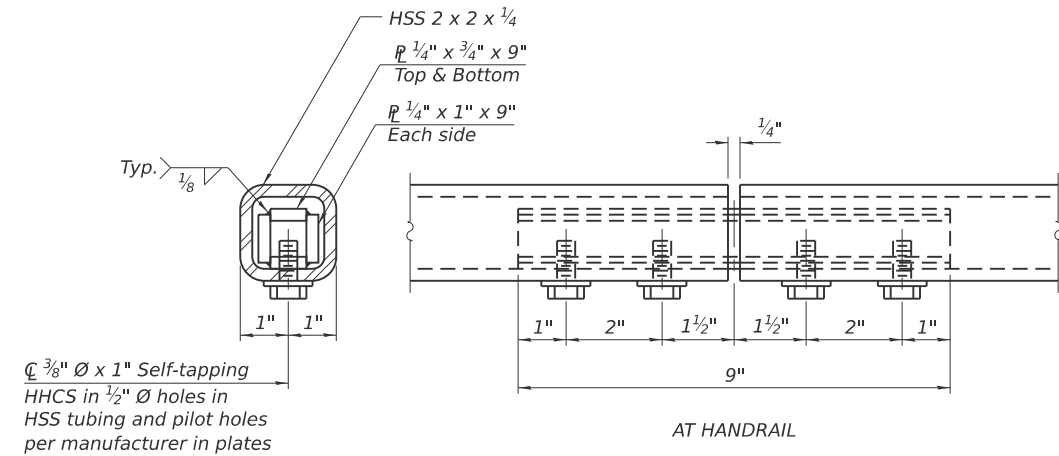
SHEET S-27 OF 63 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 KEELER BR	COOK	283	171
CONTRACT NO. 62U41				
	ILLINOIS	FED. AID PROJECT		

MODEL: Bridge Railing Details 1- [Sheet]
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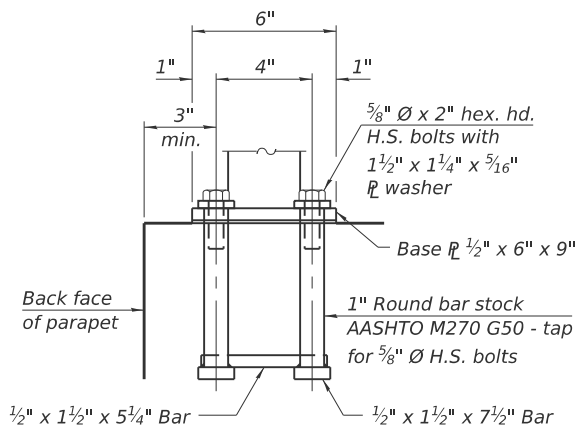
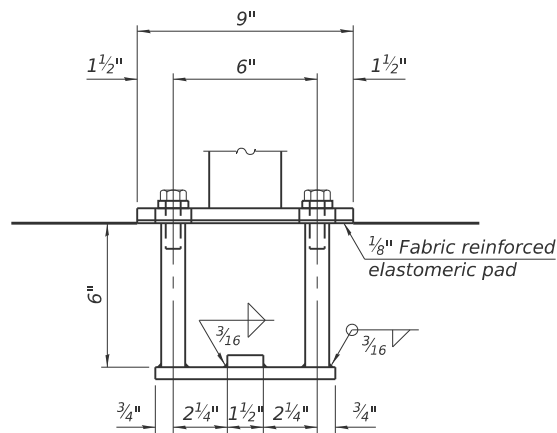
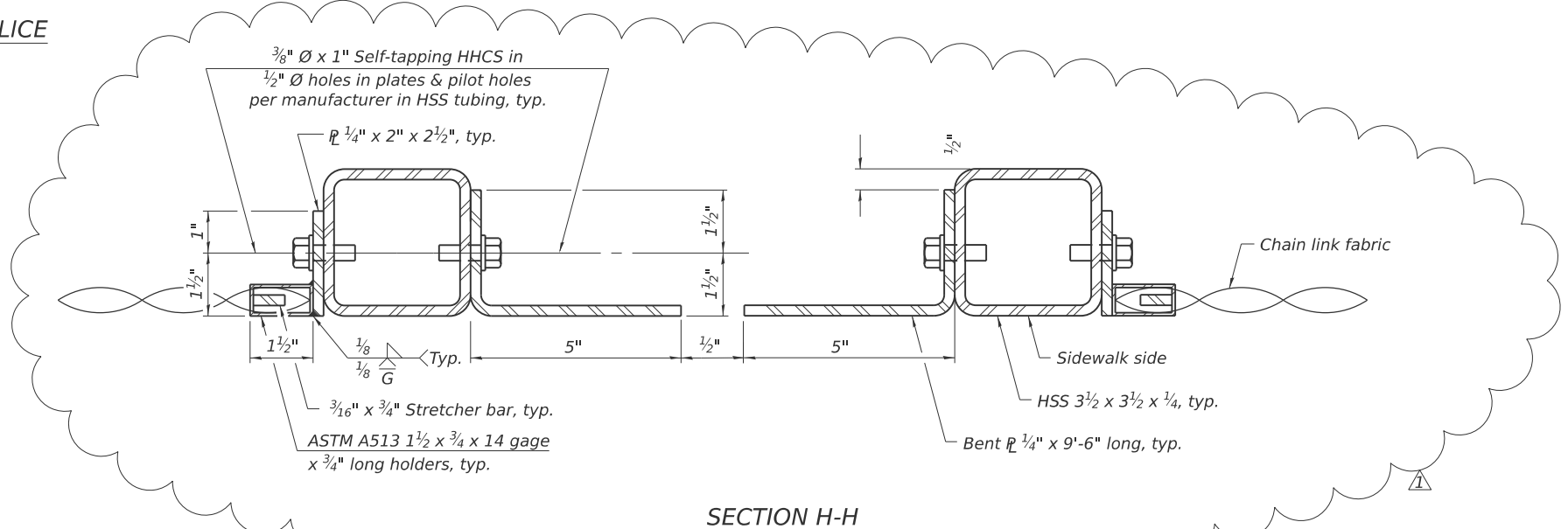
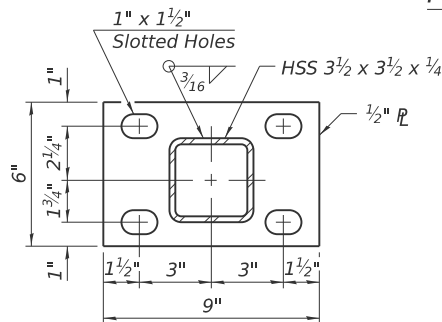
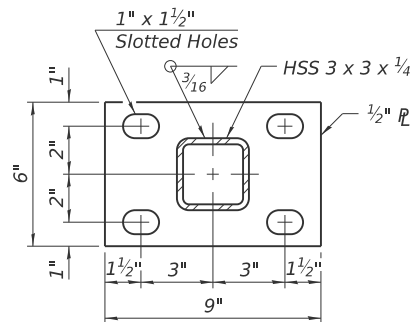
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MODEL: Bridge Railing sheet 2 - (Sheet)
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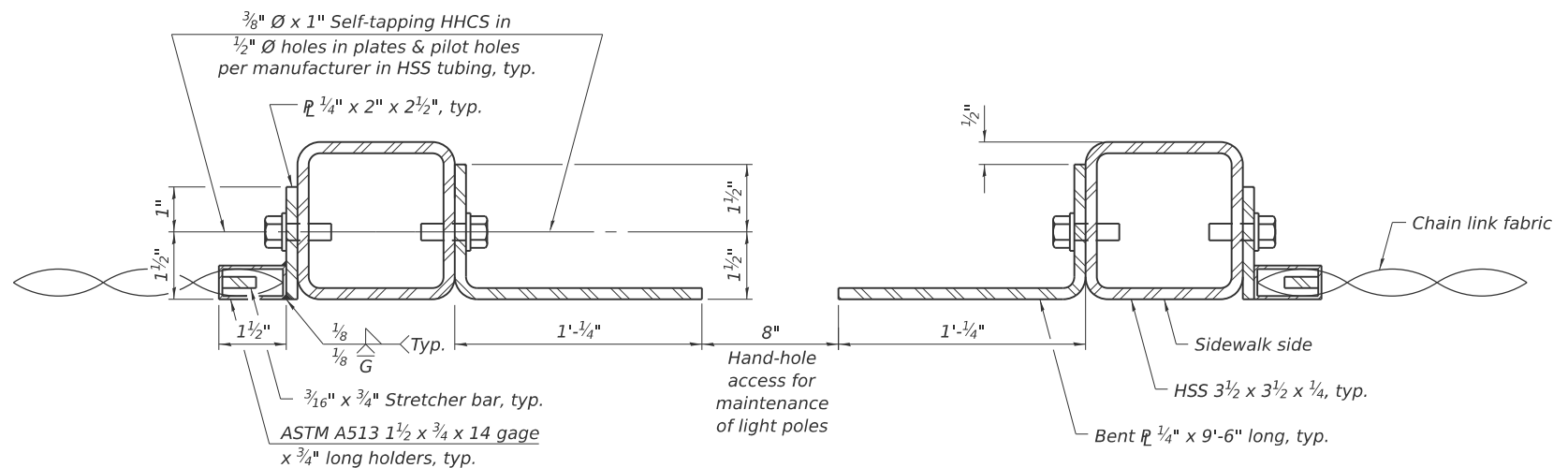
Notes:
Place reinforcement bars to miss anchor rod locations.
CVN testing is not required for the HSS tubing used in the Bridge Fence Railing, Curved.
All HSS tubing used for the Handrail shall be CVN tested according to Article 1006.34(b) of the Standard Specifications.
All heavy hex nuts shall be according to ASTM A 563 grade DH.
All fully threaded anchor rods shall be ASTM F1554 grade 105.
The post base plate shall be fastened to the curb snug tight and given an additional 1/8" turn.
Contractor shall offset posts to miss any aluminum sheet or cork joints for sufficient installation of the anchorage assembly.
Rail splice inserts may be built out of bent plates of the same thicknesses and outside geometry limits as the 4 plate rail splice inserts shown.
All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

MATERIAL SPLICE



ANCHORAGE ASSEMBLY

The Bridge Fence Railing, Curved fasteners for end posts near expansion joints may need to be installed prior to installing the bent plates.
In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 3/8" fully threaded anchor rods with the same plate washers as specified above and heavy hex lock nuts according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.



SECTION B-B

BILL OF MATERIAL

Item	Unit	Quantity
Bridge Fence Railing, Curved	Foot	522

R-32 (Modified)

4-4-2025

REVISD SHEET 10/22/2025

(Sheet 2 of 2)



USER NAME = GM	DESIGNED - GM	REVISED - 9/11/2025
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PLOT DATE = 9/17/2025	DRAWN - GM	REVISED -
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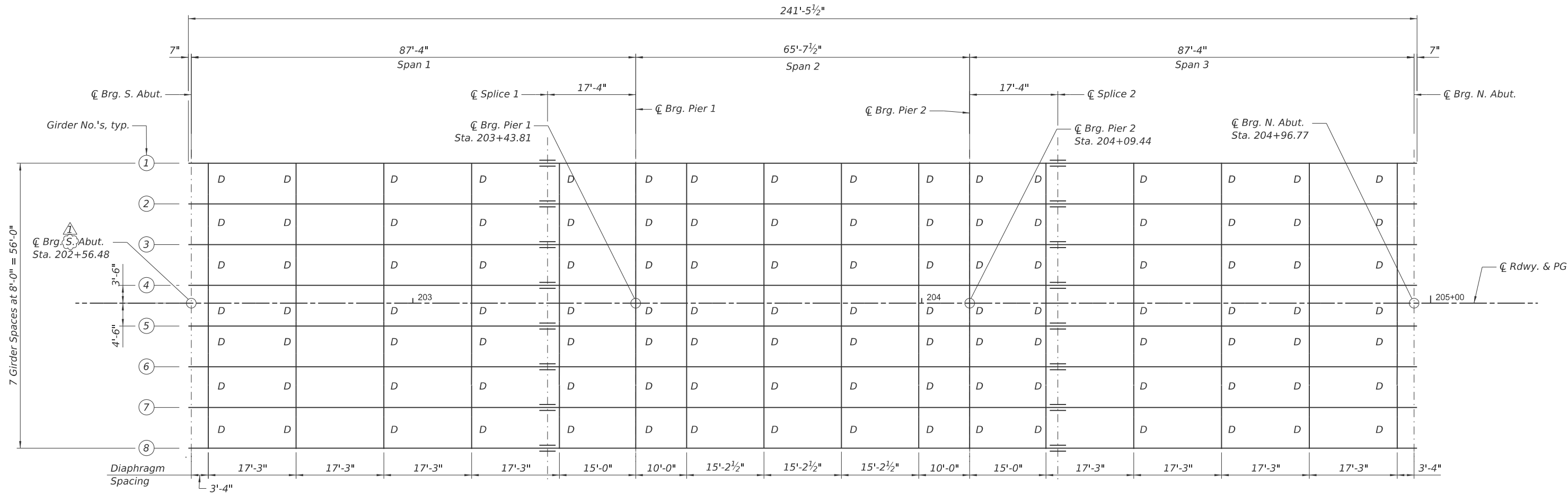
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE FENCE RAILING, CURVED (2 OF 2)
STRUCTURE NO. 016-2093

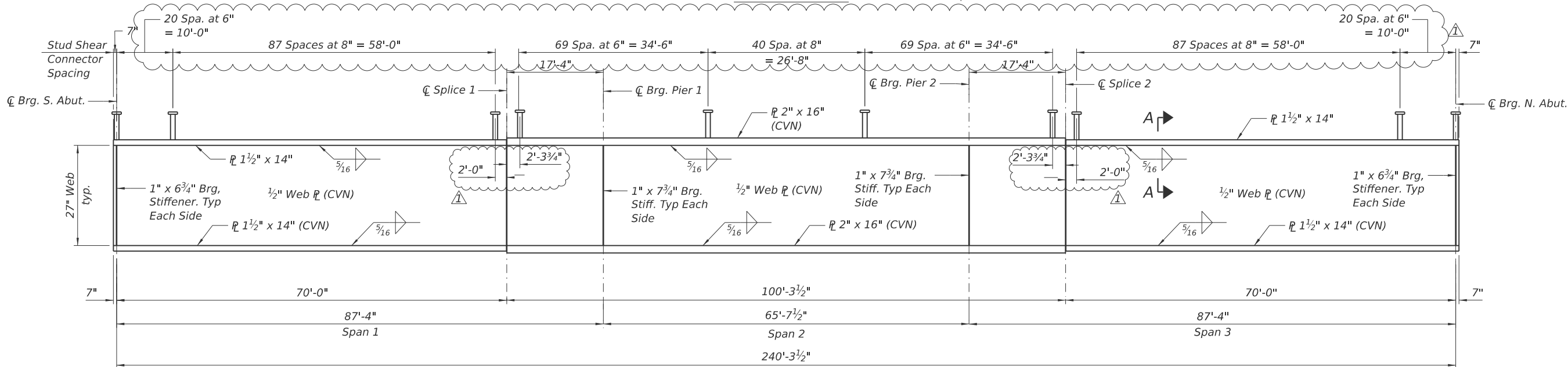
SHEET S-28 OF 63 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 KEELER BR	COOK	283	172
CONTRACT NO. 62U41				
ILLINOIS FED. AID PROJECT				

MODEL: Framing Plan and Beam Elev. (Sheet)
FILE NAME: pvc://civiltech-pw.bentley.com/civiltech-pw/Documents/Projects/3855/CAD/CADD Sheets/17-Structures/D162U41-SHT-026-FramingPlan&Elev



FRAMING PLAN



GIRDER ELEVATION
(All Girders, AASHTO M270, Grade 50)

NOTES:

1. Load carrying components designated "CVN" shall conform to the Charpy-V-Notch Impact Energy Requirements, Zone 2.

2. All diaphragms between girders shall be installed with erection pins and bolts in accordance with the erection plan approved by the Engineer. Individual diaphragms at supports may be temporarily disconnected to install bearing anchor bolts.

3. For Section A-A, see sheet S-31.

REVISED SHEET 10/22/2025



USER NAME = kdc	DESIGNED - JMI	REVISED 1 - 9/11/2025
	CHECKED - GJH	REVISED -
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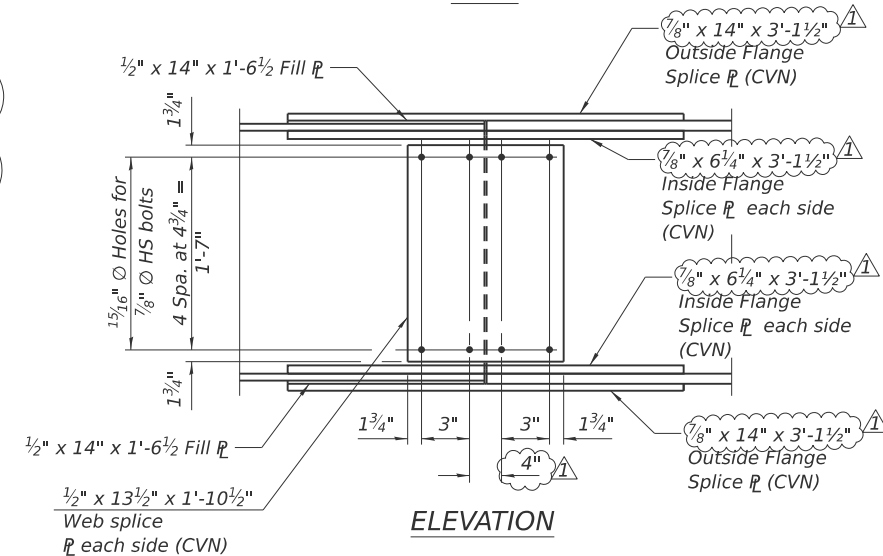
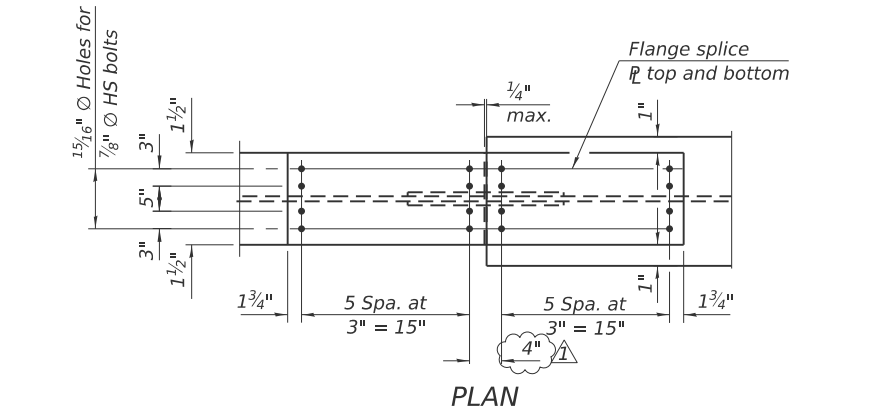
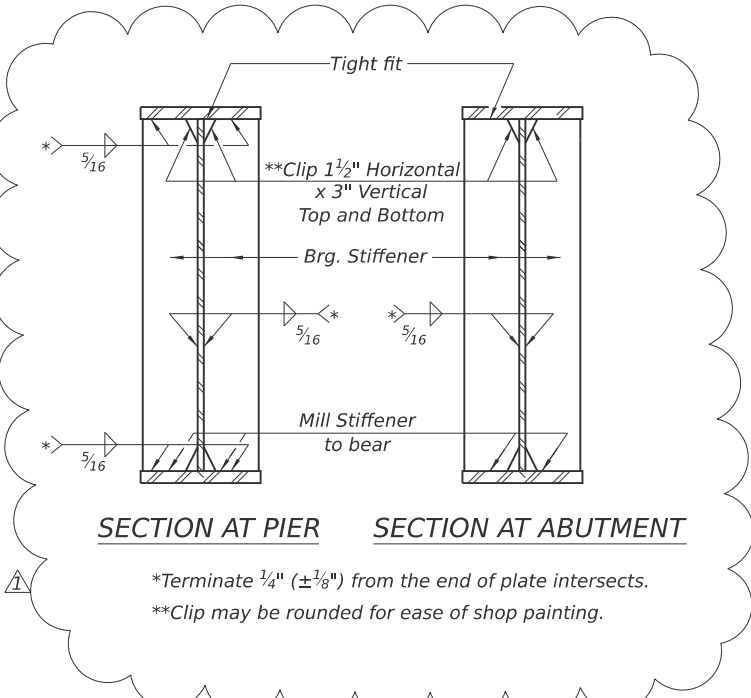
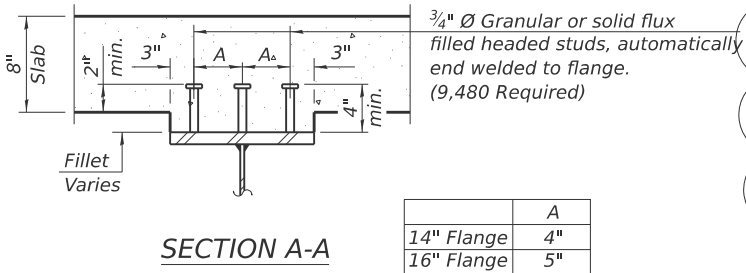
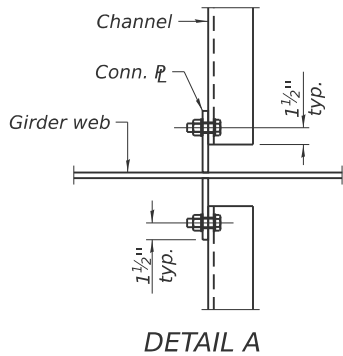
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FRAMING PLAN AND GIRDER ELEVATION
STRUCTURE NO. 016-2093

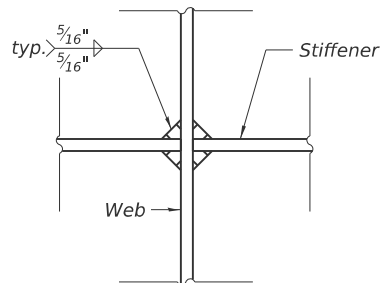
SHEET S-29 OF 63 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62U41				
ILLINOIS FED. AID PROJECT				

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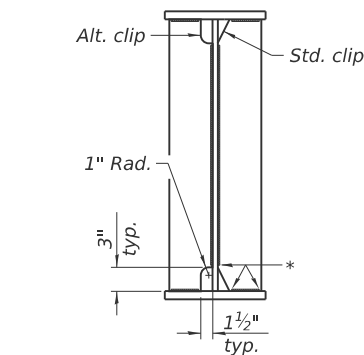
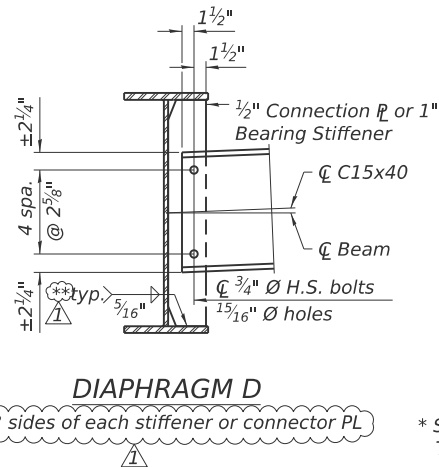
SPLICE DETAIL
(16 Required)



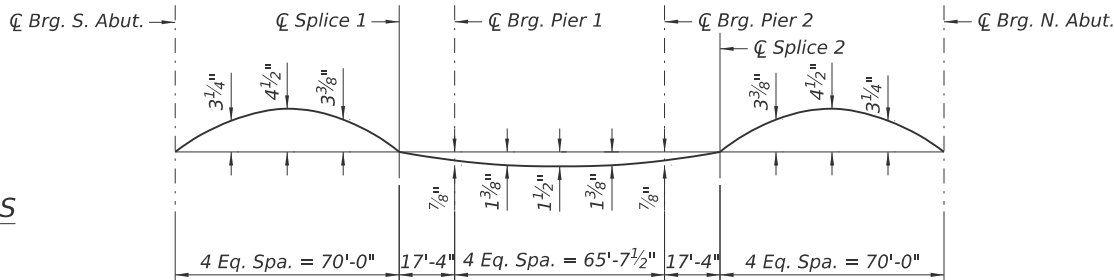
WEB WELD DETAIL (PERPENDICULAR)

Notes:
Two hardened washers required for each set of oversized holes.
All diaphragms between girders shall be installed with erection pins and bolts in accordance with the erection plan approved by the Engineer. Individual diaphragms at supports may be temporarily disconnected to install bearing anchor bolts.
Load carrying components designated "CVN" shall conform to the Charpy-V-Notch Impact Energy Requirements, Zone 2.
Alternate channels of equal depth and larger weight are permitted to facilitate material acquisition. Alternate channels, if utilized, shall be provided at no additional cost to the Department.
All splice plates and bearing stiffeners shall be AASHTO M270, Grade 50.

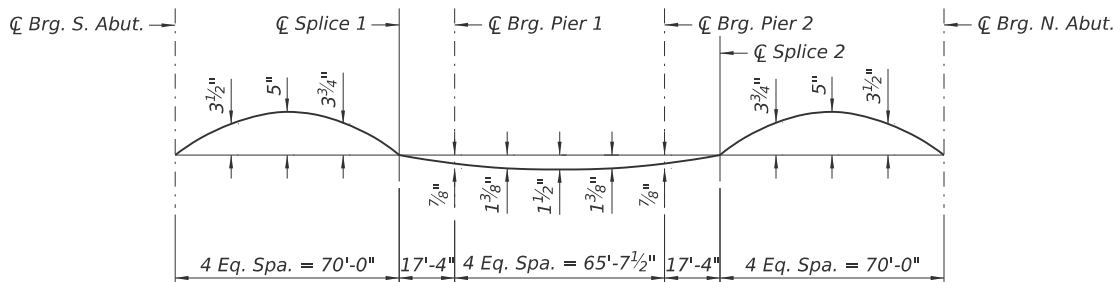
REVISED SHEET 10/22/2025



WELD LIMITS AND CLIP DETAILS
* Stop welds 1/4" ($\pm 1/8$ ") from edges as shown. Typical.



CAMBER DIAGRAM
(Interior Girders 2 thru 7)



CAMBER DIAGRAM
(Exterior Girders 1 & 8)

TOP OF WEB ELEVATIONS
(For Fabrication Only)

Girder No.	☐ Brg. S. Abut.	☐ Splice 1	☐ Brg. Pier 1	☐ Brg. Pier 2	☐ Splice 2	☐ Brg. N. Abut.
1	604.34	605.67	605.71	605.86	605.90	604.31
2	604.34	605.67	605.71	605.86	605.90	604.31
3	604.46	605.79	605.83	605.98	606.02	604.43
4	604.58	605.91	605.95	606.10	606.14	604.55
5	604.56	605.89	605.93	606.08	606.12	604.54
6	604.44	605.77	605.81	605.96	606.00	604.42
7	604.32	605.65	605.69	605.84	605.88	604.30
8	604.32	605.65	605.69	605.84	605.88	604.30



USER NAME = GM	DESIGNED - JMI	REVISED 1 - 9/11/2025
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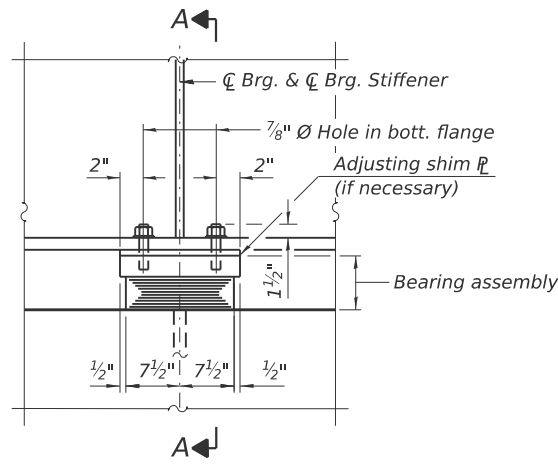
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL DETAILS
STRUCTURE NO. 016-2093

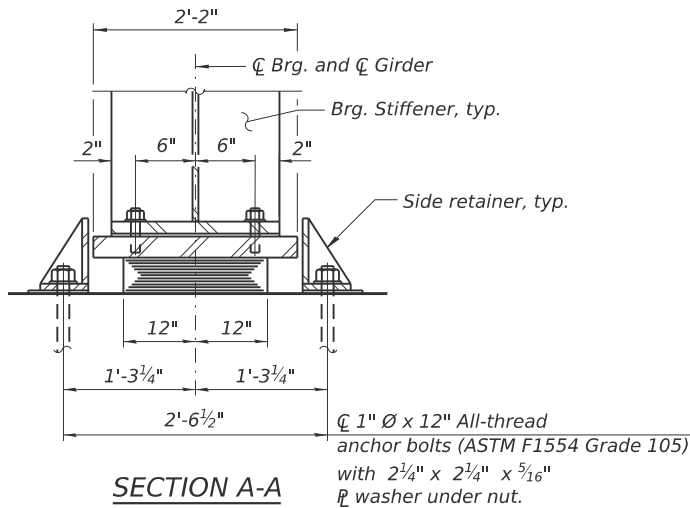
SHEET S-31 OF 63 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 KEELER BR	COOK	283	175
CONTRACT NO. 62U41				
ILLINOIS FED. AID PROJECT				

MODEL: Bearing Details 2 [Sheet]
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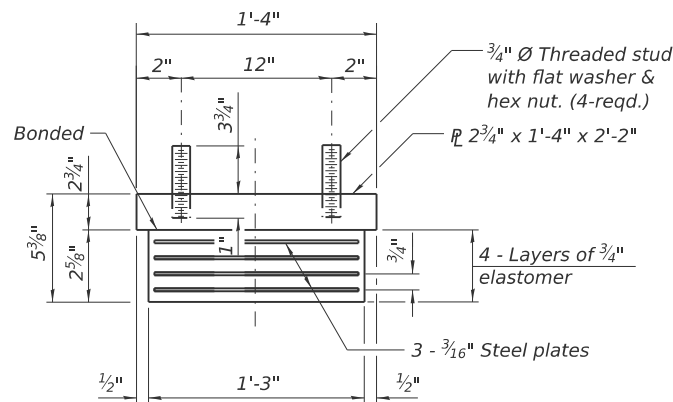


ELEVATION AT PIER 1

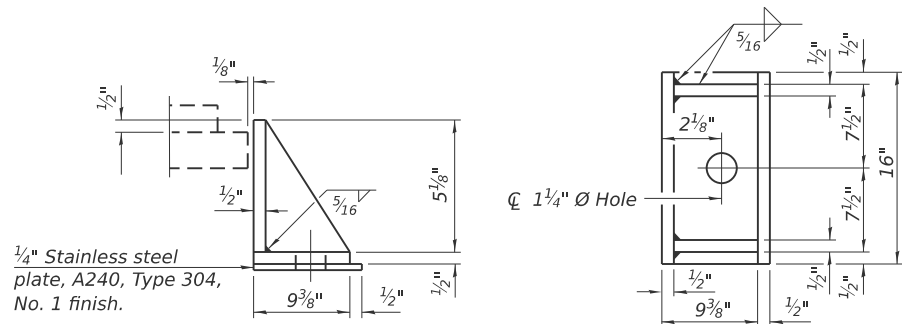


SECTION A-A

TYPE I ELASTOMERIC EXP. BRG.
(Pier 1)

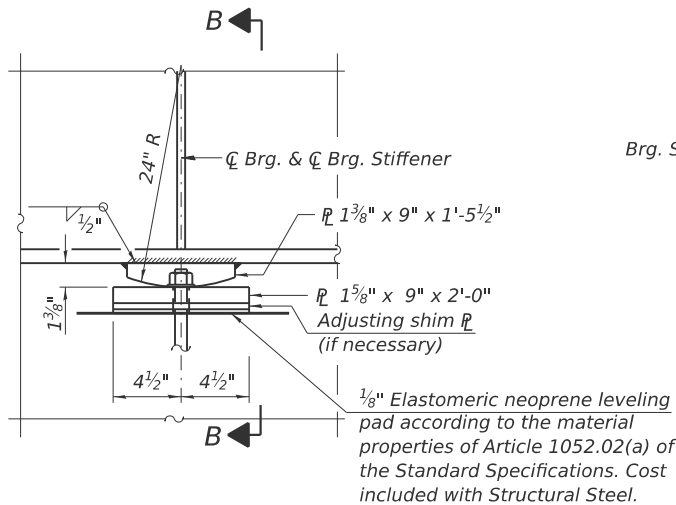


BEARING ASSEMBLY
(At Pier 1)

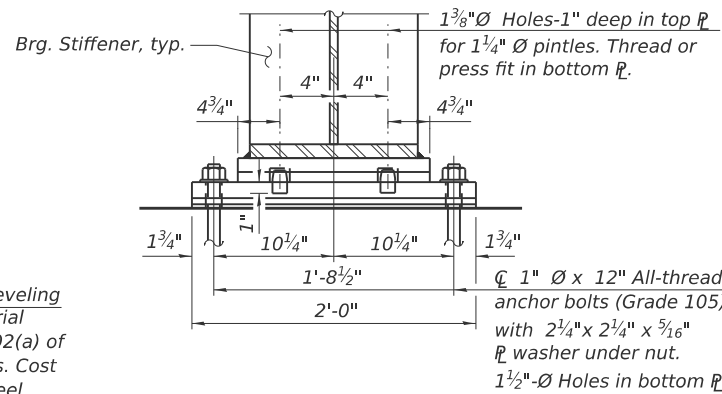


SIDE RETAINERS

Equivalent rolled angle with stiffeners
will be allowed in lieu of welded plates.

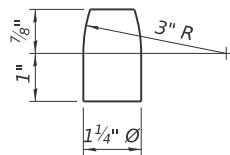


ELEVATION AT PIER 2



SECTION B-B

FIXED BEARING



PINTLE

NOTES:

- Side retainers and stainless steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type I.
- Anchor bolts and side retainers at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.
- The structural steel plates and pintles of all the bearings shall conform to requirements of AASHTO M270 Grade 50.
- All bearing plates, side retainers, shim plates, anchor bolts, nuts, and washers shall be glavanized according to AASHTO M111 or M232 as applicable.
- Two 1/8 in. adjusting shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.
- Cost of steel plates for Fixed Bearings shall be included with Furnishing and Erecting Structural Steel.
- Fixed bearing shall be metallized.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	8
Anchor Bolts, 1"	Each	32

REVISED SHEET 10/22/2025

I-2E-1

5/15/2023



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PLOT DATE = 9/12/2025	CHECKED - GJH	REVISED -

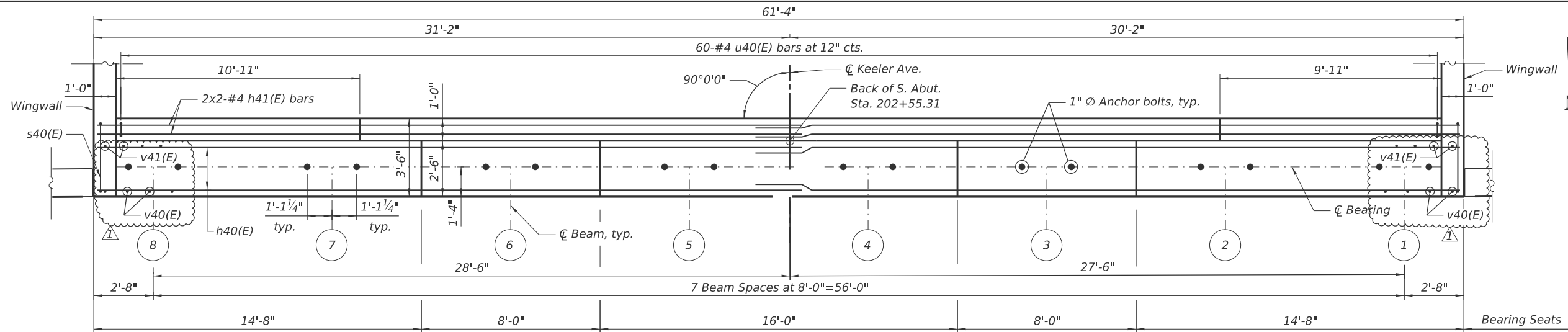
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEARING DETAILS (2 OF 2)
STRUCTURE NO. 016-2093

SHEET S-33 OF 63 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 KEELER BR	COOK	283	177
CONTRACT NO. 62U41				
ILLINOIS FED. AID PROJECT				

MODEL: S. Abut. Plan and Elev. [Sheet]
FILE NAME: p:\civiltech\pw.bentley.com\civiltech\pw\Documents\Projects\3855\CAD\CADD Sheets\17-Structures\17-24\U41-SHT-034-S AbutPlan&Elev



MINIMUM HORIZONTAL

BAR LAP

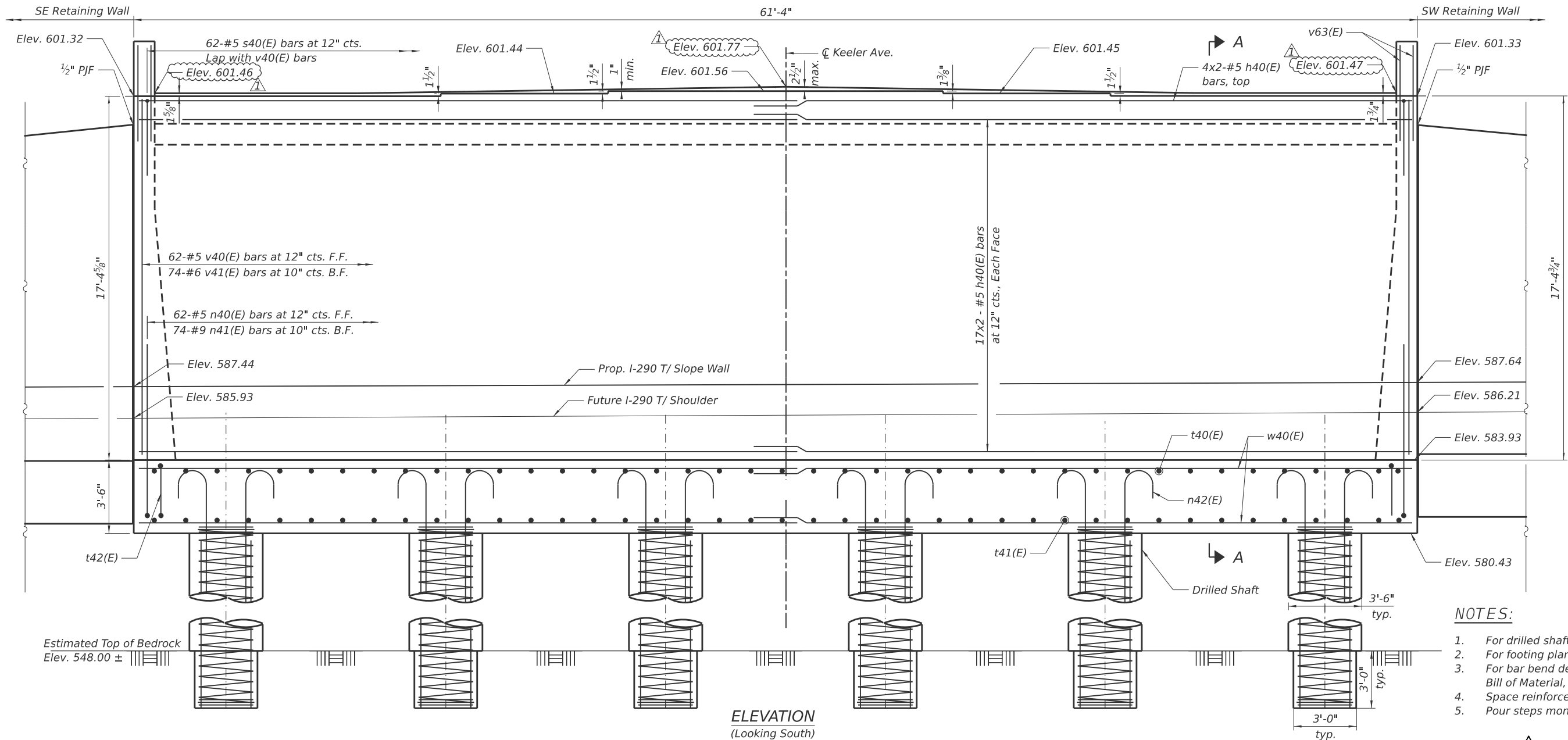
#5 bar = 2'-9"

MINIMUM VERTICAL

BAR LAP

#5 bar = 2'-1"

#9 bar = 6'-10"



NOTES:

1. For drilled shaft details, see sheet S-38.
2. For footing plan, see sheet S-36
3. For bar bend details, section A-A, and Bill of Material, see sheet S-38.
4. Space reinforcement to miss anchor bolts.
5. Pour steps monolithically with abutment.

1 REVISED SHEET 10/22/2025



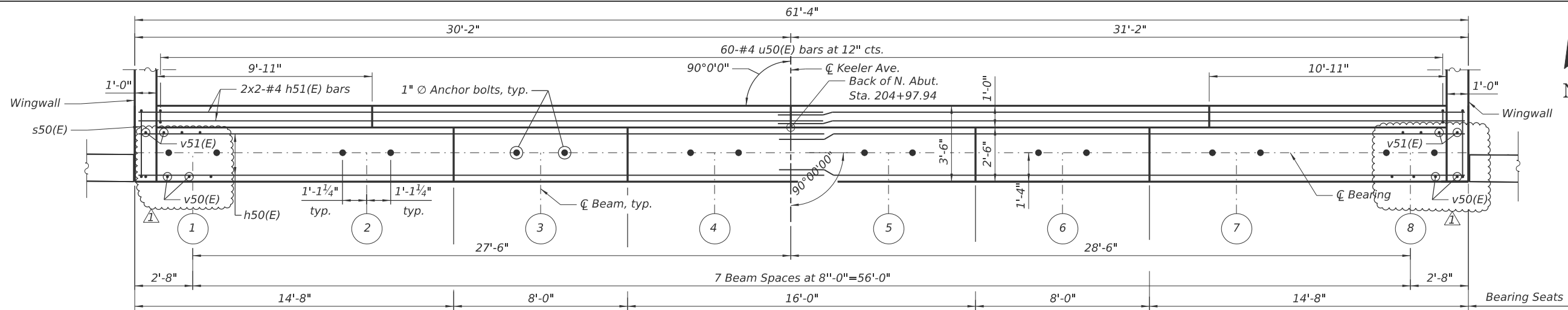
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT PLAN & ELEVATION
STRUCTURE NO. 016-2093

SHEET S-34 OF 63 SHEETS

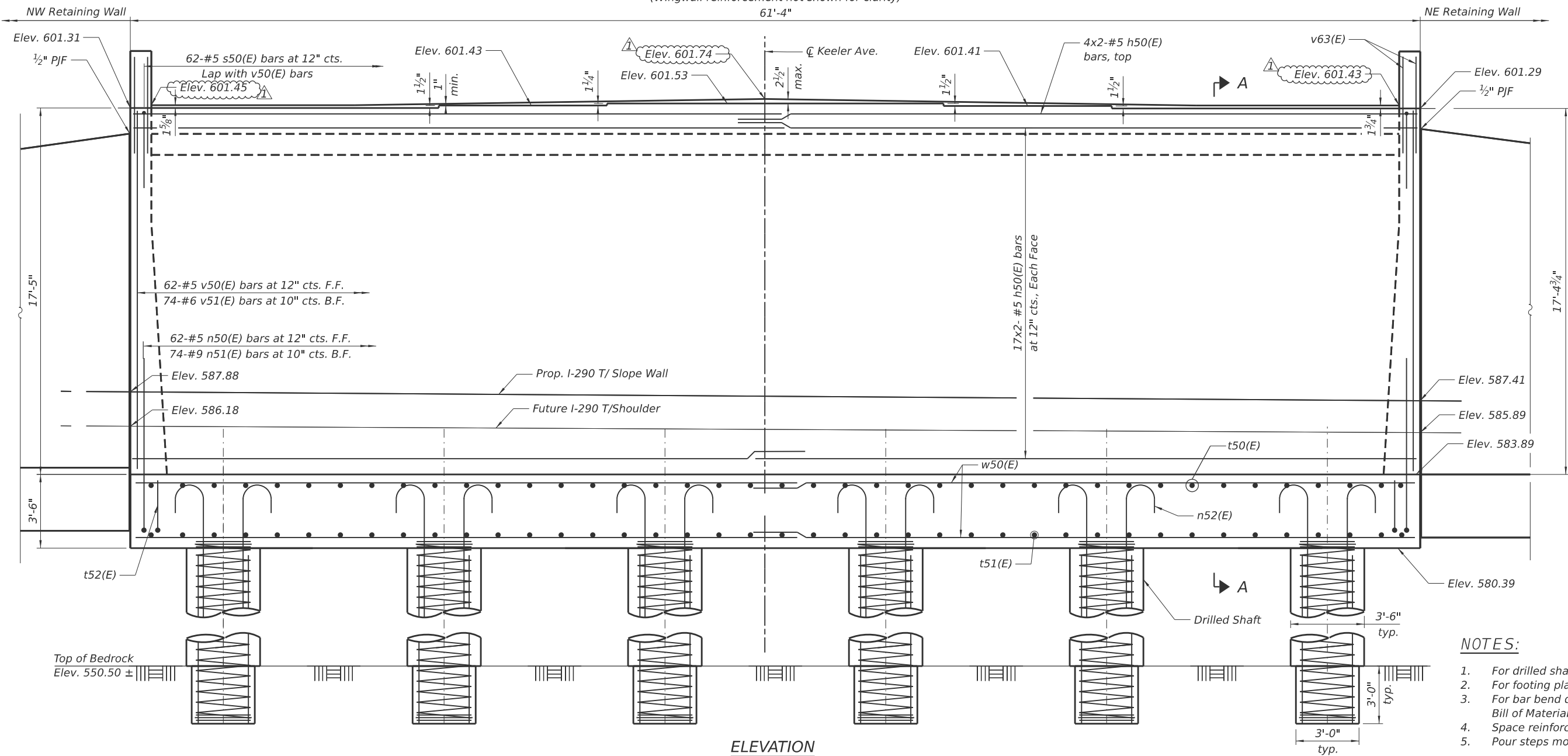
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290	FAI 290 22 KEELER BR	COOK	283	178
CONTRACT NO. 62U41				
ILLINOIS FED. AID PROJECT				



PLAN
(Wingwall reinforcement not shown for clarity)

MINIMUM HORIZONTAL
BAR LAP
#5 bar = 2'-9"

MINIMUM VERTICAL
BAR LAP
#5 bar = 2'-1"
#9 bar = 6'-10"



ELEVATION
(Looking North)

NOTES:

1. For drilled shaft details, see sheet S-38.
2. For footing plan, see sheet S-36.
3. For bar bend details, section A-A, and Bill of Material, see sheet S-38.
4. Space reinforcement to miss anchor bolts.
5. Pour steps monolithically with abutment.

REVISED SHEET 10/22/2025

MODEL: N. Abut. Plan and Elev. (Sheet)
FILE NAME: pwc:\civiltech\pw-bentley.com\civiltech\pw\Documents\Projects\3855\CAD\CADD Sheets\17-Structures\162U41-SHT-035-N.Abut.Plan&Elev



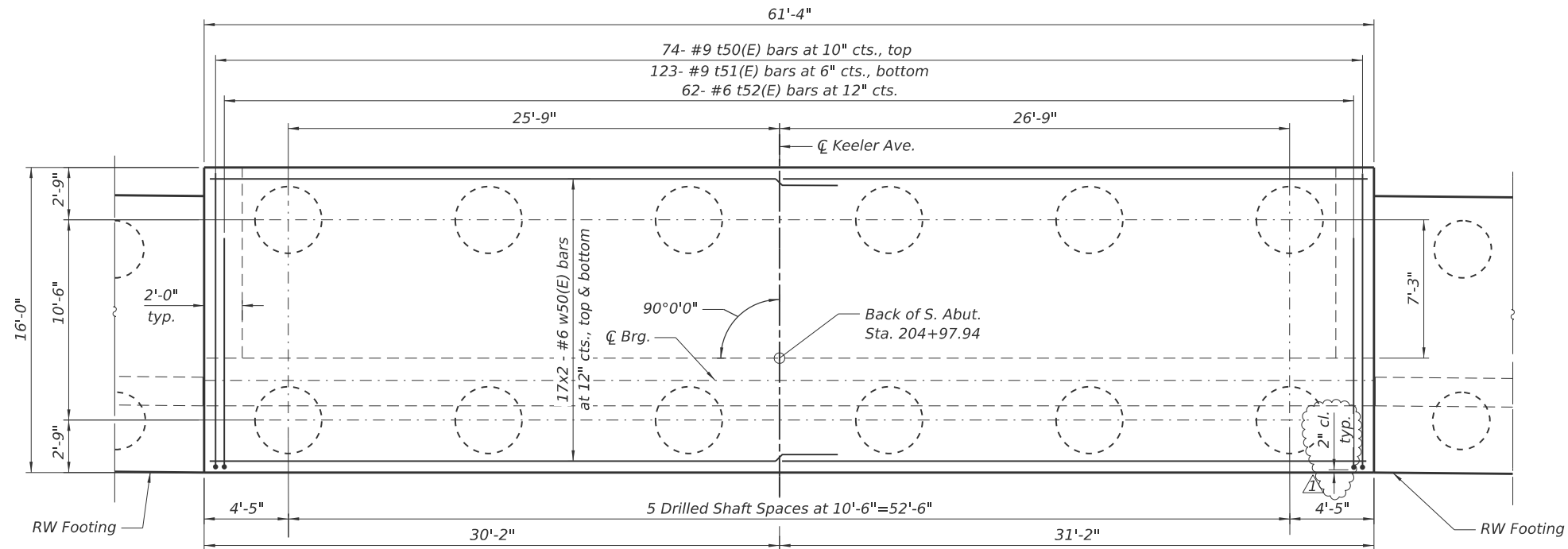
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PLOT DATE = 9/12/2025	CHECKED - GJH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

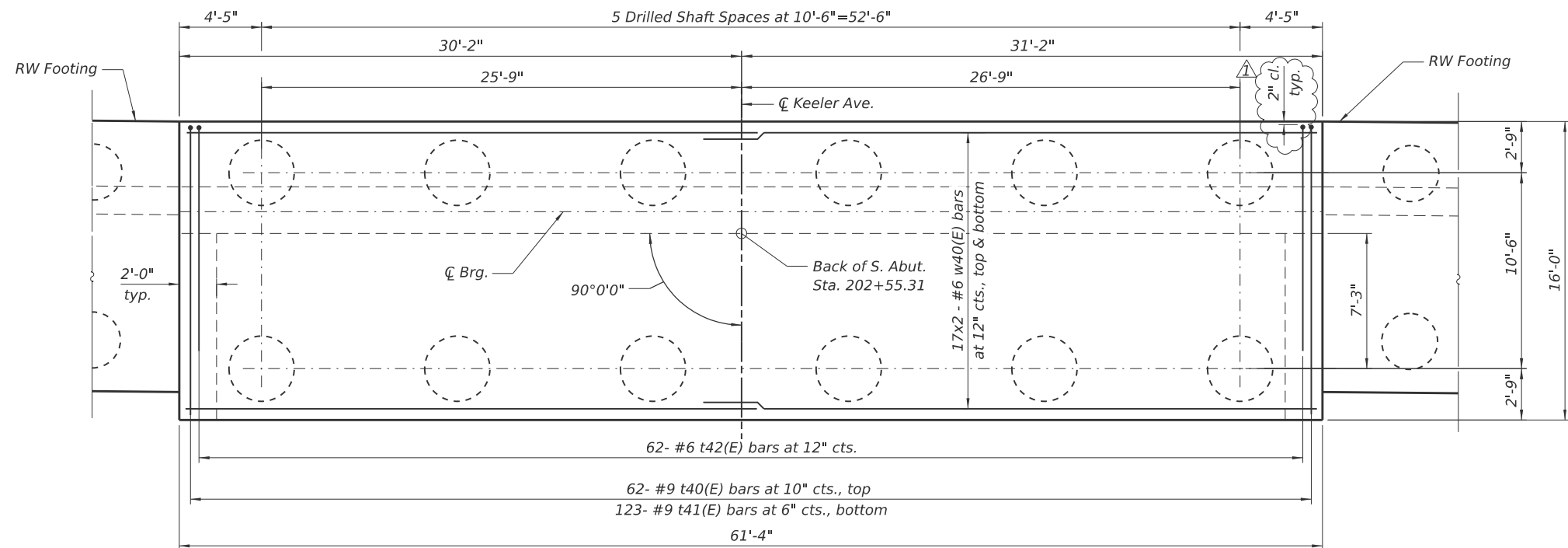
NORTH ABUTMENT PLAN & ELEVATION
STRUCTURE NO. 016-2093

SHEET S-35 OF 63 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 KEELER BR	COOK	283	179
CONTRACT NO. 62U41				
ILLINOIS FED. AID PROJECT				



NORTH ABUTMENT FOOTING PLAN



SOUTH ABUTMENT FOOTING PLAN

MINIMUM HORIZONTAL
BAR LAP
#6 bar = 3'-9"



NOTES:

1. For drilled shaft details, see sheet S-38.
2. For bar bend details and Bill of Material, see sheet S-38.

MODEL: S - Foundation-17 [Sheet]
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

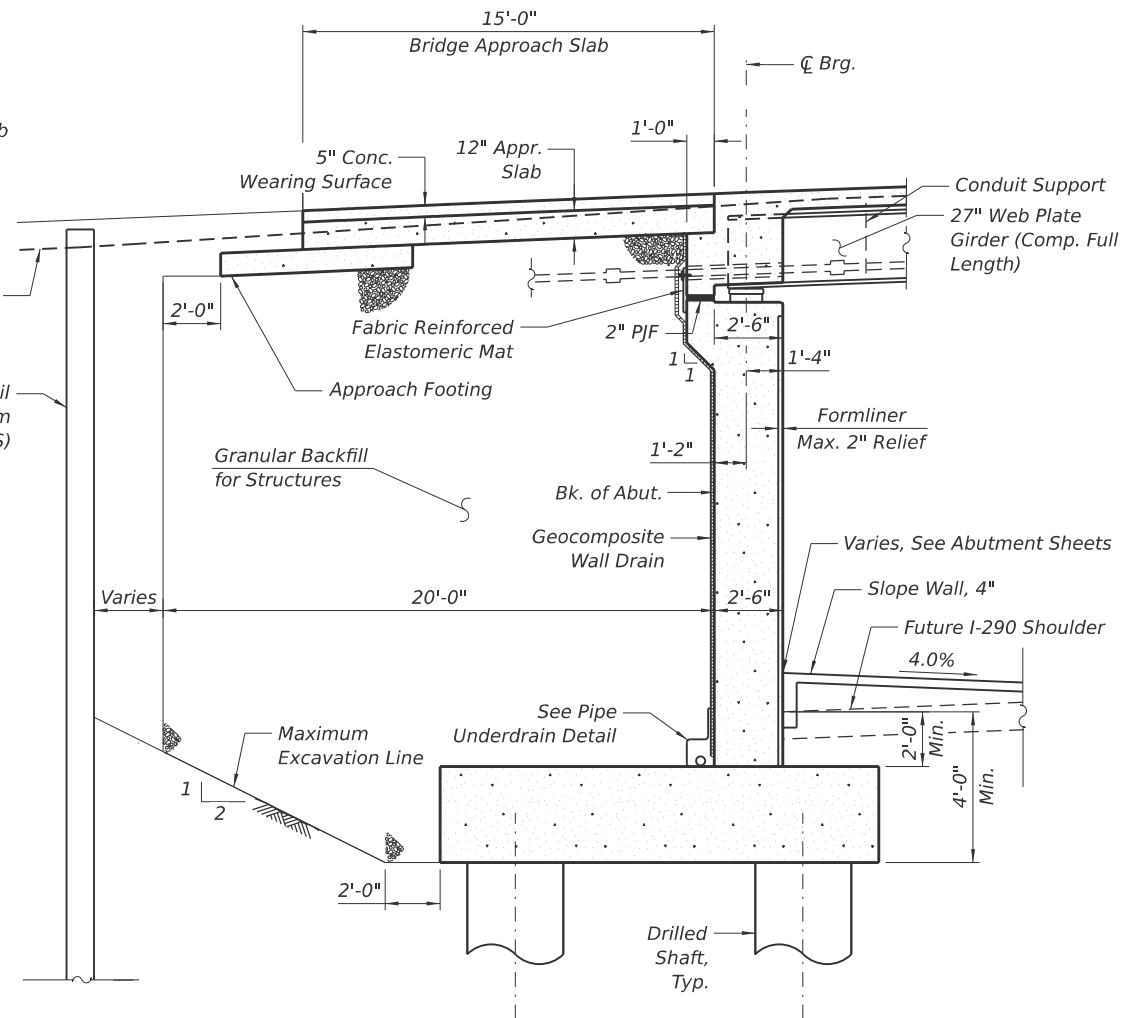
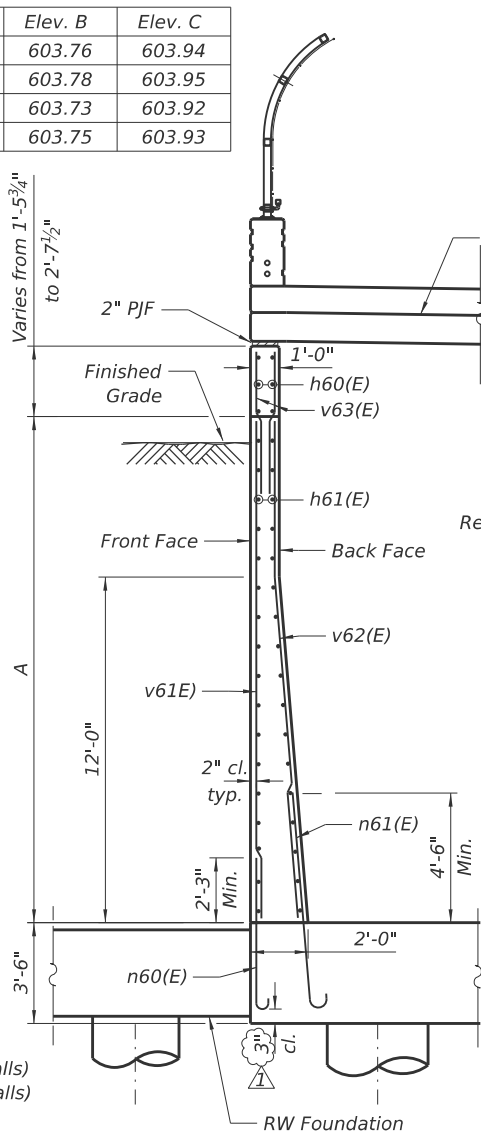
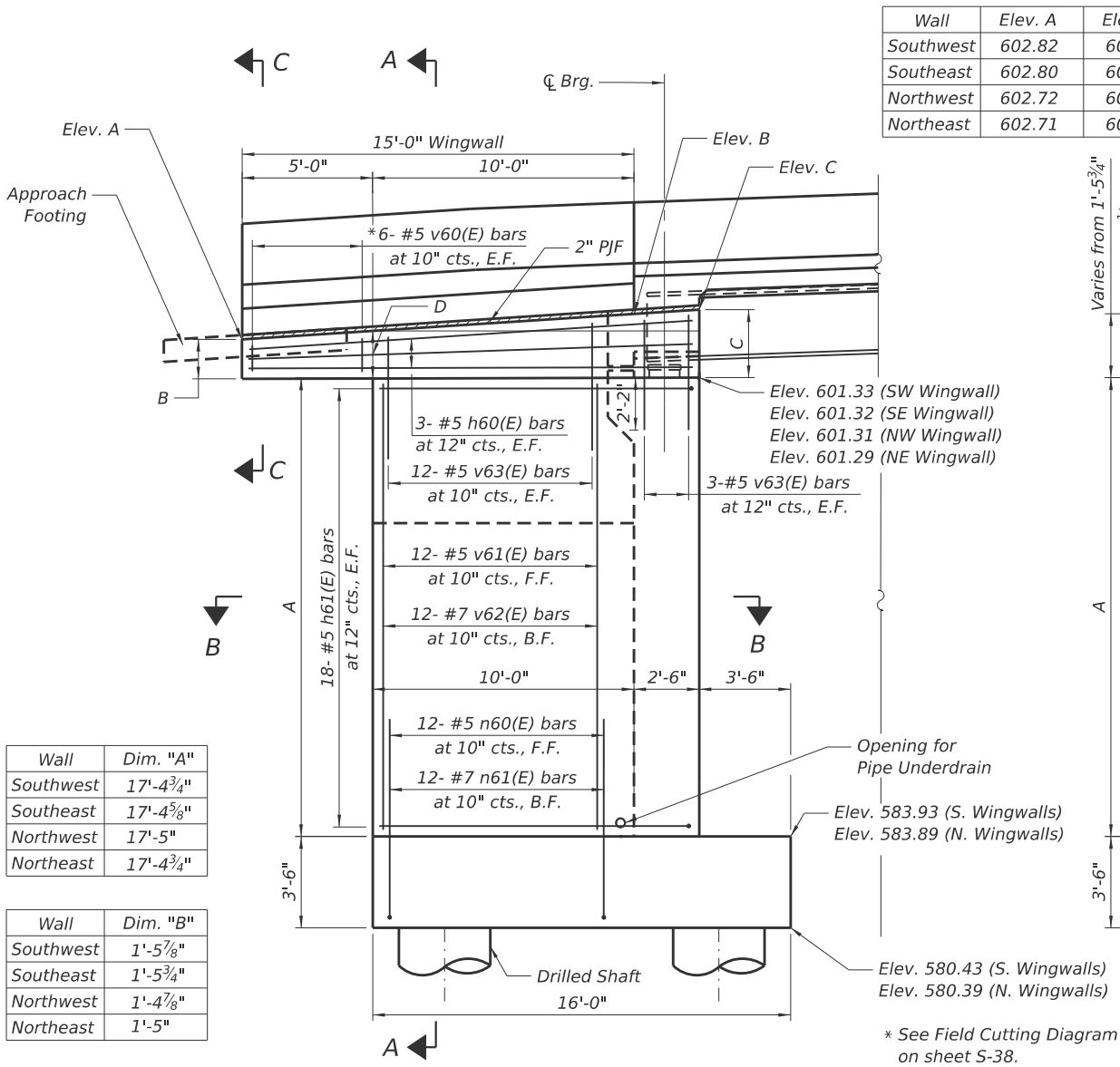
NORTH AND SOUTH ABUTMENT FOUNDATION PLAN
STRUCTURE NO. 016-2093

SHEET S-36 OF 63 SHEETS

¹ REVISED SHEET 10/22/2025

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 KEELER BR	COOK	283	180
CONTRACT NO. 62U41				
		ILLINOIS	FED. AID PROJECT	

MODEL: South Wingwall-9 [Sheet]
FILE NAME: pvc://civiltech-pw.bentley.com/civiltech-pw/Documents/Projects/3855/CAD/CADD Sheets/17-Structures/D162U41-SHT-037-WingwallPlan&Elev

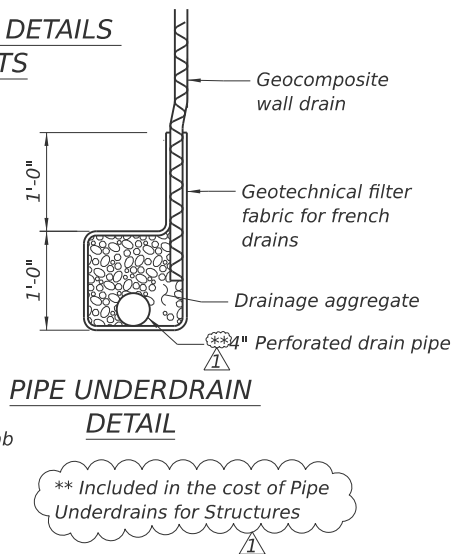
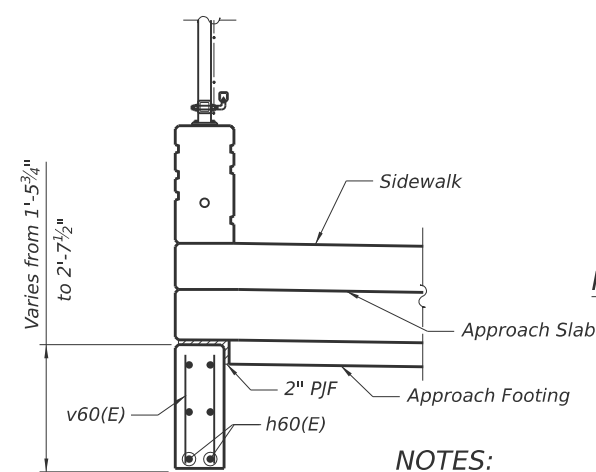
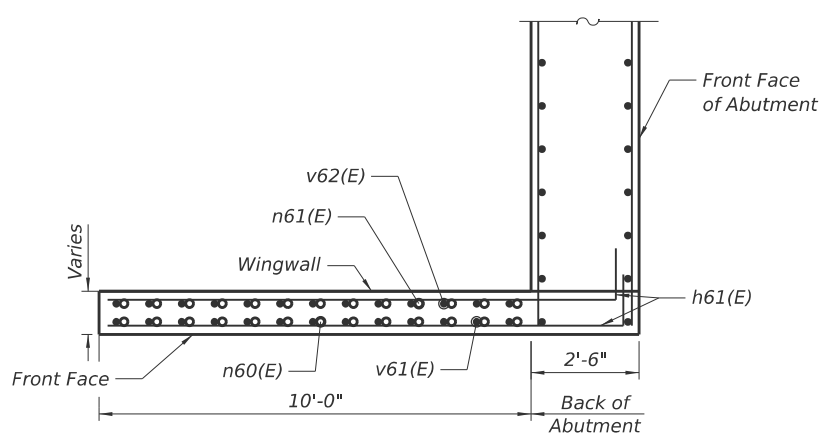
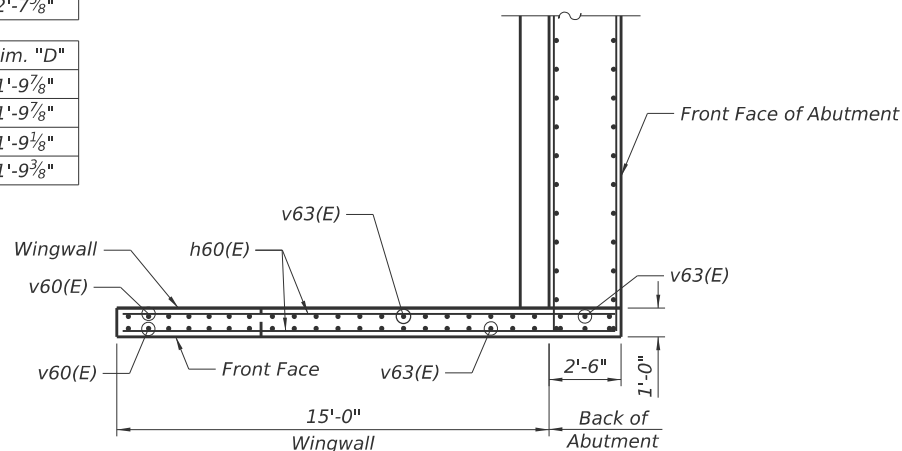


Wall	Dim. "A"
Southwest	17'-4 3/4"
Southeast	17'-4 3/8"
Northwest	17'-5"
Northeast	17'-4 3/4"

Wall	Dim. "B"
Southwest	1'-5 7/8"
Southeast	1'-5 3/4"
Northwest	1'-4 7/8"
Northeast	1'-5"

Wall	Dim. "C"
Southwest	2'-7 3/8"
Southeast	2'-7 1/2"
Northwest	2'-7 3/8"
Northeast	2'-7 3/8"

Wall	Dim. "D"
Southwest	1'-9 7/8"
Southeast	1'-9 7/8"
Northwest	1'-9 1/8"
Northeast	1'-9 3/8"



- NOTES:**
- See Sheet S-38 for Drilled shaft details and BOM.
 - Cost of PJF included with Concrete Structure.

REVISION 10/22/2025



USER NAME = GM	DESIGNED - RH	REVISION 1 - 9/11/2025
PLOT SCALE =	CHECKED - GJH	REVISION 2 -
PLOT DATE = 9/12/2025	DRAWN - RH	REVISION 3 -
	CHECKED - GJH	REVISION 4 -

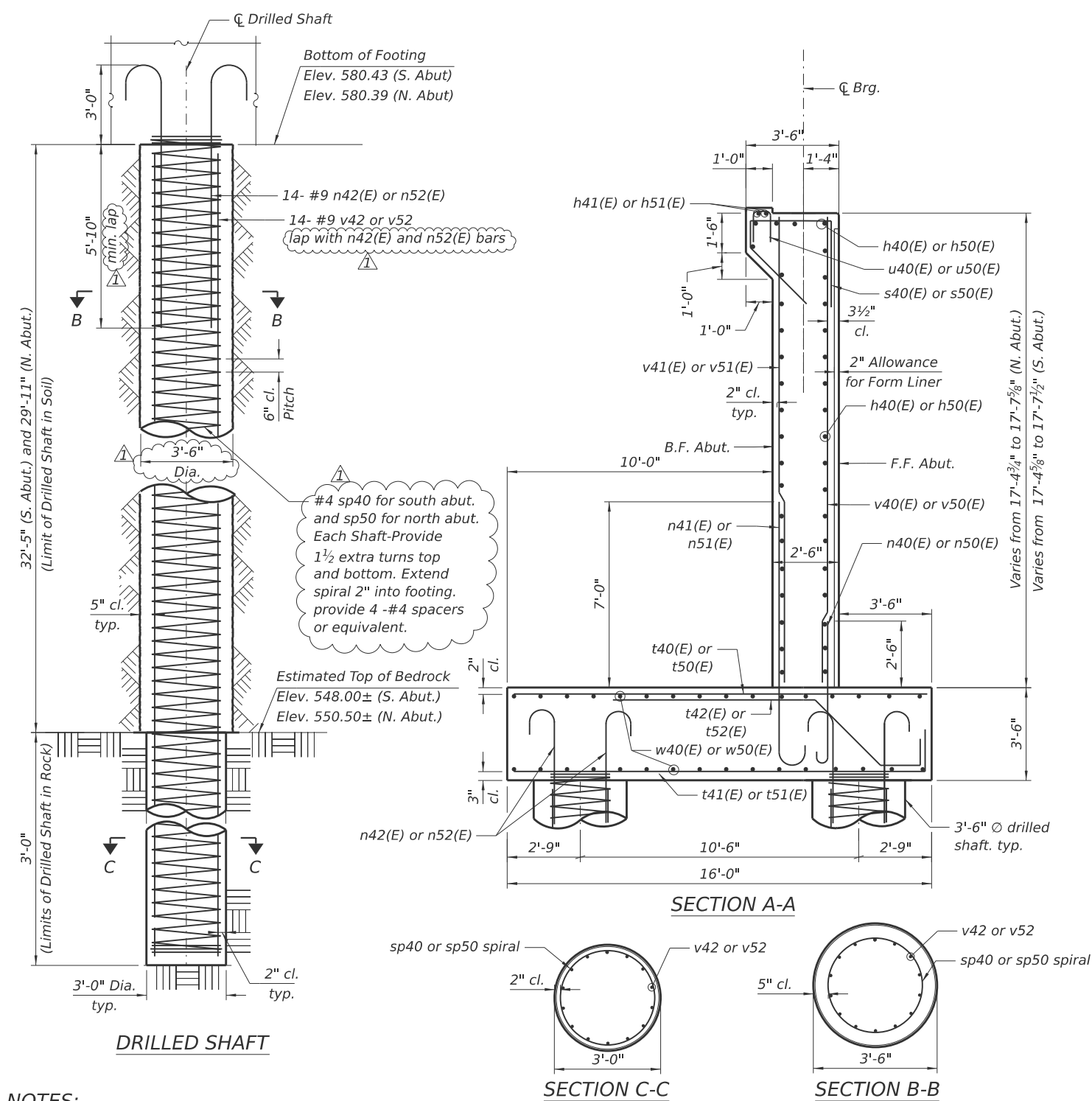
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENT DETAILS (1 OF 2)
STRUCTURE NO. 016-2093

SHEET S-37 OF 63 SHEETS

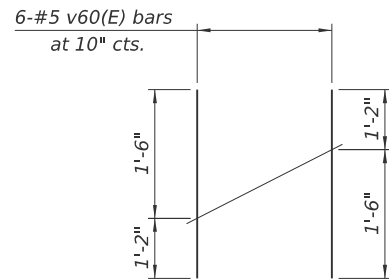
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 KEELER BR	COOK	283	181
CONTRACT NO. 62U41				
ILLINOIS FED. AID PROJECT				

MODEL: South and North Abut. Section- [Sheet]
FILE NAME: pwc/04filled-pw-bentley.com/cad/tech-pw/Structures/17-Structures/D162U41-SHT-038-AbutDetails



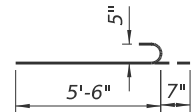
NOTES:

- Reinforcement bars designated (E) shall be epoxy coated.
- Apply concrete sealer to all exposed concrete surface of the abutment.
- All edges shall have standard $\frac{3}{4}$ " chamfer.
- The quantities and detailing are based on the estimated elevations shown on the plans. The actual elevations may differ at each shaft and corresponding adjustments shall be made to the drilled shaft and reinforcement quantities and payment limits.
- Minimum lap for #4 spirals = 2'-2".

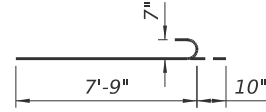


FIELD CUTTING DIAGRAM

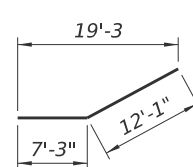
Order v60(E) bars full length. Cut as shown and use remainder of bars in opposite face of panel. Cut in field to fit if needed



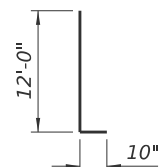
BAR n60(E)



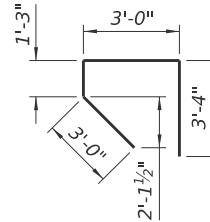
BAR n61(E)



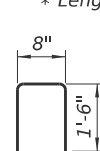
BAR v62(E)



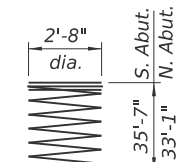
BAR h61(E)



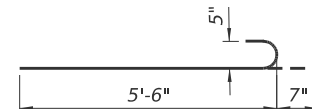
BAR s40(E) or s50(E)



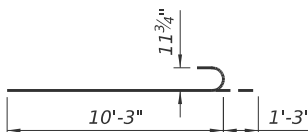
BAR u40(E) or u50(E)



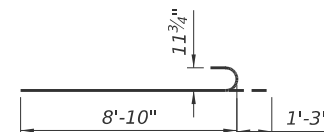
BAR sp40 or sp50



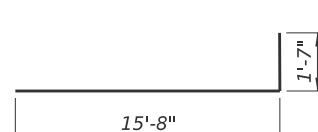
BAR n40(E) or n50(E)



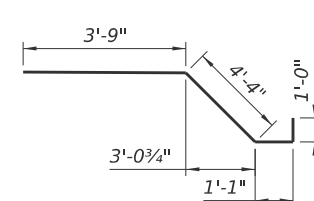
BAR n41(E) or n51(E)



BAR n42(E) or n52(E)



BAR t41(E) or t51(E)



BAR t42(E) or t52(E)

SOUTH ABUTMENT BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h40(E)	76	#5	31'-11"	—
h41(E)	4	#4	30'-11"	—
h60(E)	12	#5	17'-2"	—
h61(E)	72	#5	12'-10"	—
n40(E)	62	#5	6'-1"	—
n41(E)	74	#9	11'-6"	—
n42(E)	168	#9	10'-1"	—
n60(E)	24	#5	6'-1"	—
n61(E)	24	#7	8'-7"	—
s40(E)	62	#5	10'-7"	—
t40(E)	74	#9	15'-8"	—
t41(E)	123	#9	17'-3"	—
t42(E)	62	#6	10'-2"	—
u40(E)	62	#4	3'-8"	—
v40(E)	62	#5	17'-1"	—
v41(E)	74	#6	17'-1"	—
v42	168	#9	35'-7"	—
v60(E)	12	#5	2'-8"	—
v61(E)	24	#5	17'-1"	—
v62(E)	24	#7	17'-2"	—
v63(E)	60	#5	4'-7"	—
w40(E)	68	#6	32'-5"	—
* sp40	12	#4	35'-7"	—
Granular Backfill for Structures			Cu. Yd.	932
Structure Excavation			Cu. Yd.	1,094
Concrete Structures			Cu. Yd.	251.8
Form Liner Textured Surface			Sq. Ft.	951
Reinforcement Bars			Pound	25,600
Reinforcement Bars, Epoxy Coated			Pound	35,730
Drilled Shaft in Soil			Cu. Yd.	138.7
Drilled Shaft in Rock			Cu. Yd.	9.5
Concrete Sealer			Sq. Ft.	1,100
Geocomposite Wall Drain			Sq. Yd.	116
Pipe Underdrains for Structures 4"			Foot	62
Crosshole Sonic Logging Access Ducts			Foot	425
Crosshole Sonic Logging Testing			Each	2

* Length is height of spiral

NORTH ABUTMENT BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h50(E)	76	#5	31'-11"	—
h51(E)	4	#4	30'-11"	—
h60(E)	12	#5	17'-2"	—
h61(E)	72	#5	12'-10"	—
n50(E)	62	#5	6'-1"	—
n51(E)	74	#9	11'-6"	—
n52(E)	168	#9	10'-1"	—
n60(E)	24	#5	6'-1"	—
n61(E)	24	#7	8'-7"	—
s50(E)	62	#5	10'-7"	—
t50(E)	74	#9	15'-8"	—
t51(E)	123	#9	17'-3"	—
t52(E)	62	#6	10'-2"	—
u50(E)	62	#4	3'-8"	—
v50(E)	62	#5	17'-1"	—
v51(E)	74	#6	17'-1"	—
v52	168	#9	33'-1"	—
v60(E)	14	#5	2'-8"	—
v61(E)	24	#5	17'-1"	—
v62(E)	24	#7	17'-2"	—
v63(E)	60	#5	4'-7"	—
w50(E)	68	#6	32'-5"	—
* sp50	12	#4	33'-1"	—
Granular Backfill for Structures			Cu. Yd.	932
Structure Excavation			Cu. Yd.	1,104
Concrete Structures			Cu. Yd.	252.4
Form Liner Textured Surface			Sq. Ft.	951
Reinforcement Bars			Pound	23,810
Reinforcement Bars, Epoxy Coated			Pound	35,730
Drilled Shaft in Soil			Cu. Yd.	128.0
Drilled Shaft in Rock			Cu. Yd.	9.5
Concrete Sealer			Sq. Ft.	1,107
Geocomposite Wall Drain			Sq. Yd.	116
Pipe Underdrains for Structures 4"			Foot	62
Crosshole Sonic Logging Access Ducts			Foot	395
Crosshole Sonic Logging Testing			Each	2

* Length is height of spiral

REVISED SHEET 10/22/2025



USER NAME = GM	DESIGNED - RH	REVISED - 9/11/2025
CHECKED - GJH	CHECKED - GJH	REVIS
PLOT SCALE =	DRAWN - RH	REVIS
PLOT DATE = 9/12/2025	CHECKED - GJH	REVIS

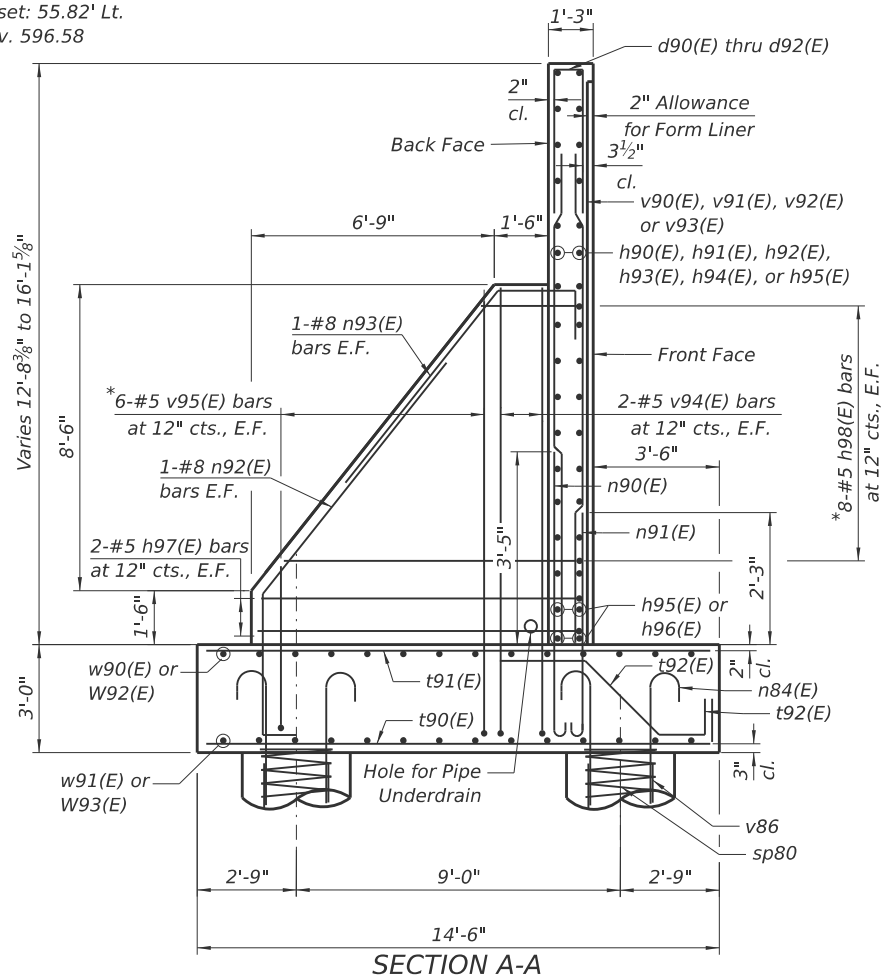
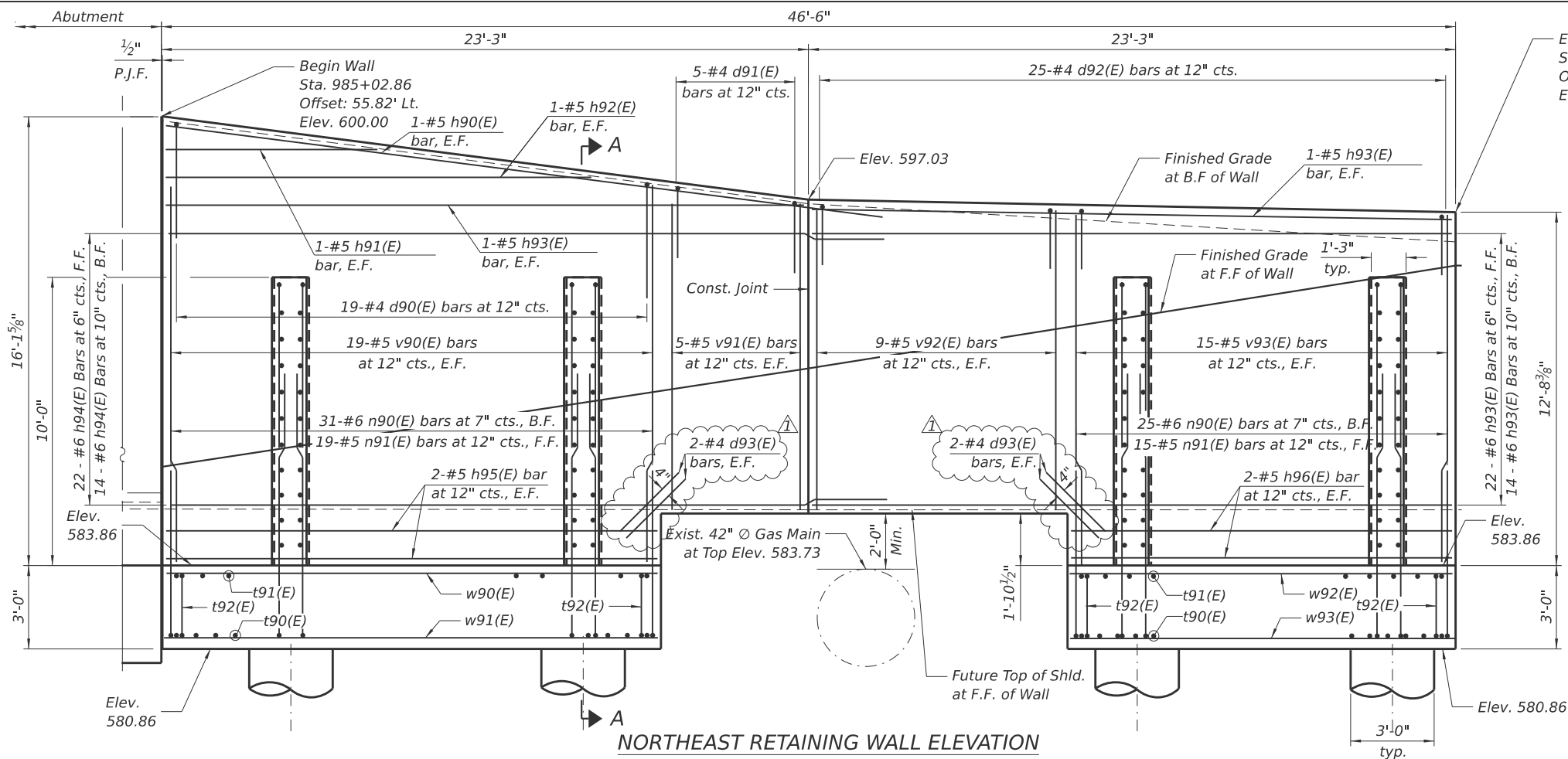
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENT DETAILS (2 OF 2)
STRUCTURE NO. 016-2093

SHEET S-38 OF 63 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 KEELER BR	COOK	283	182
CONTRACT NO. 62U41				
ILLINOIS FED. AID PROJECT				

MODEL: Northeast RW-12 (Sheet)
FILE NAME: p:\civiltech\p-w\beniley.com\civiltech\p-w\Documents\Projects\3855\CAD\CADD Sheets\17-Structures\162U41-SHT-040- NE RW Plan&Elev



*See Field Cutting Diagram on Sheet 44.

MINIMUM HORIZONTAL

BAR LAP

#5 bar = 2'-9"
#6 bar = 3'-9"

MINIMUM VERTICAL

BAR LAP

#5 bar = 2'-1"
#6 bar = 3'-3"

Location	Finish Grade at BF of Wall	Finish Grade at FF of Wall	Future T/Shld. at FF of Wall
Begin Wall	599.84	587.41	585.89
Const. Jt.	596.86	590.94	585.86
End of Wall	595.49	594.64	585.86

NOTES:

- For drilled shaft details, retaining wall drainage details, Detail A and Construction Joint Details see sheet S-43.
- For Bill of Material see sheet S-44.
- See General Notes 29-31 for Peoples Gas requirements.
- voids between the excavation and the proposed retaining wall within 5-ft of the existing 42" diameter gas main shall be backfilled with FA 2 sand. Cost included with Structure Excavation.

1 REVISED SHEET 10/22/2025



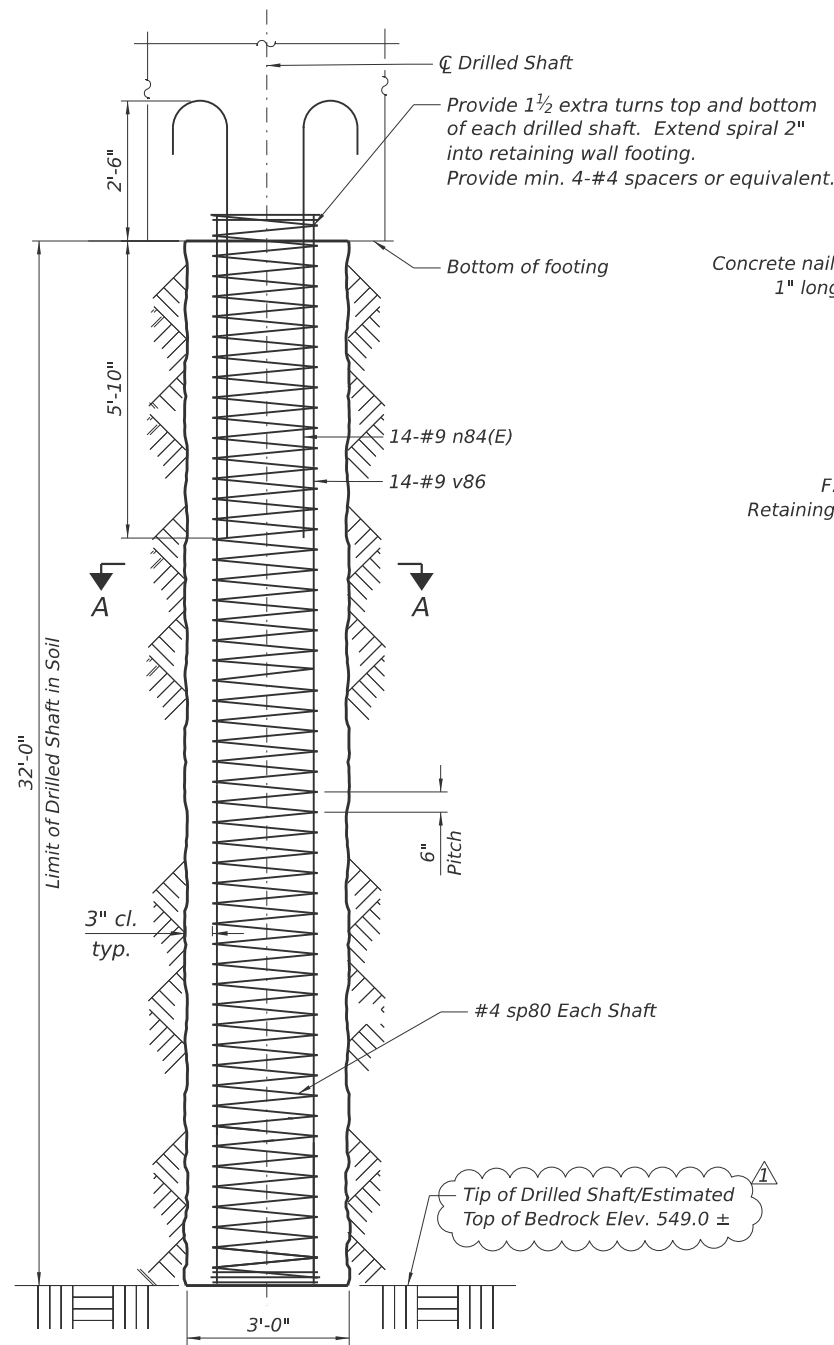
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	CHECKED - GJH	REVISED -
PLOT SCALE =	DRAWN - RH	REVISED -
PLOT DATE = 9/11/2025	CHECKED - GJH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

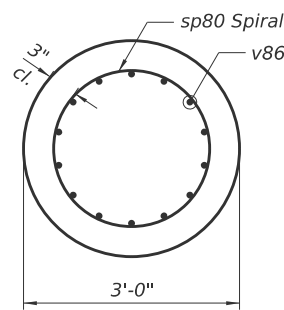
NE RETAINING WALL PLAN & ELEVATION
STRUCTURE NO. 016-2093

SHEET S-40 OF 63 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 KEELER BR	COOK	283	184
CONTRACT NO. 62U41				
ILLINOIS FED. AID PROJECT				



DRILLED SHAFT



SECTION A-A
(For 3'-0" drilled shaft)

Concrete nails (flat head C.S.)
1" long @ 12" cts. vert.

F.F. of
Retaining Wall

DETAIL A

6" Hollow bulb dumbbell type nonmetallic
water seal (6" from top of wall to top of ftg.)
Cost included with Concrete Structures.

Proposed
Sidewalk

2'-0"

± 22'-8½" SW Wall, ± 22'-1¾" SE Wall
± 25'-2½" NW Wall, ± 24'-9" NE Wall

3H:1V & Varies

1'-9"

Type B Gutter

2" Min.

1'-6"

Granular Backfill
for Structures

Geocomposite
Wall Drain

4'-0"

Counterfort
(at SE & NE Retaining Walls only)

See Pipe
Underdrain Detail

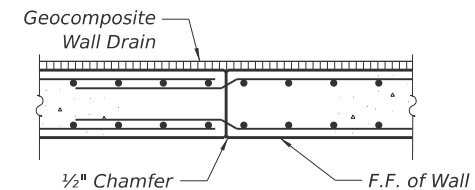
2'-0" Min.

3'-0"

2'-9" 9'-0" 2'-9"

14'-6"

TYPICAL SECTION THRU RETAINING WALL



CONSTRUCTION JOINT DETAIL

18'-9½" SW Wall, 18'-2¾" SE Wall
18'-7½" NW Wall, 9'-¾" NE Wall

Chain Link Fence, 4'
Attached to Structure

2" Allowance
for Form Liner

Front Face

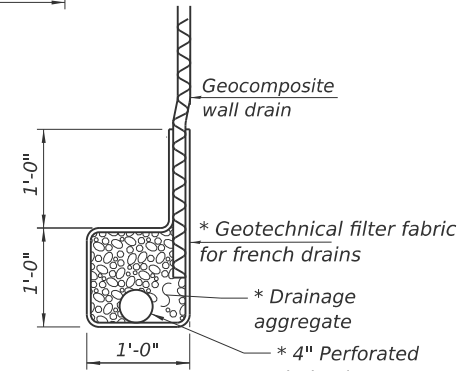
Proposed Finished
Grade

3H:1V & Varies

3'-6"

Future I-290
Shoulder

Bottom of footing
Elev. 580.89 (SE Retaining Wall)
Elev. 580.86 (NE Retaining Wall)
Elev. 581.21 (SW Retaining Wall)
Elev. 581.18 (NW Retaining Wall)



**PIPE UNDERDRAIN
DETAIL**

NOTE:

- The quantities and detailing are based on the estimated elevations shown on the plans. The actual elevations may differ at each shaft and corresponding adjustments shall be made to the drilled shaft and reinforcement quantities and payment limits.

- Minimum lap for #4 spirals = 2'-2".

1 REVISED SHEET 10/22/2025

* Included in the cost of Pipe Underdrains for Structures.

MODEL: RW Details-3 (Sheet)
FILE NAME: pwr/civiltech-pw-bentley.com/civiltech-pw/Documents/Projects/3855/CAD/CADD Sheets/17-Structures/D162U41-SHT-043-RW details.dgn



USER NAME =	GM
PLOT SCALE =	
PLOT DATE =	9/17/2025

DESIGNED -	RH	REVISED 1	9/11/2025
CHECKED -	GJH	REVISED -	
DRAWN -	RH	REVISED -	
CHECKED -	GJH	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

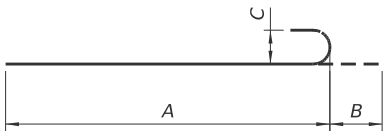
**RETAINING WALL DETAILS (1 OF 2)
STRUCTURE NO. 016-2093**

SHEET S-43 OF 63 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 KEELER BR	COOK	283	187
CONTRACT NO. 62U41				
ILLINOIS FED. AID PROJECT				

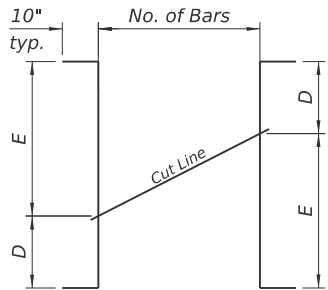
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**BARS n80(E), n81(E), n84,
n90(E), n91(E), n100(E),
n101(E), n110(E) & n111(E)**

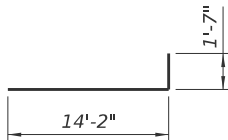
Bar	A	B	C
n80(E)	6'-2"	8"	6"
n81(E)	5'-0"	7"	5"
n84	8'-4"	1'-3"	11¾"
n90(E)	6'-2"	8"	6"
n91(E)	5'-0"	7"	5"
n100(E) & n110(E)	8'-5"	11"	8"
n101(E) & n111(E)	5'-0"	7"	5"



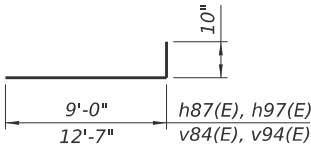
Bar	No.	D	E
h86(E)	8	3'-2"	8'-5"
h98(E)	8	3'-2"	8'-5"
v85(E)	6	5'-5"	11'-8"
v95(E)	6	5'-5"	11'-8"

FIELD CUTTING DIAGRAM

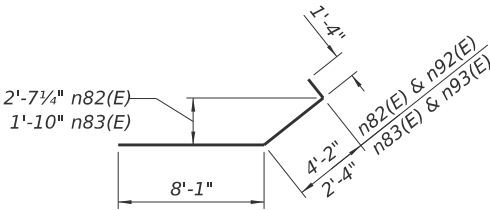
Order bar full length. Cut as shown and use remainder of bars in opposite face of counterfort.



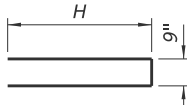
**BARS t80(E), t90(E),
t101(E) & t111(E)**



**BARS h87(E), h97(E),
v84(E) & v94(E)**

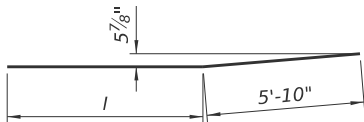


**BARS n82(E), n83(E),
n92(E) & n93(E)**



**BARS d80(E), d81(E), d90(E),
d91(E), d92(E), d100(E),
d101(E), d110(E) & d111(E)**

Bar	H
d80(E)	2'-5"
d81(E)	2'-11"
d90(E)	4'-0"
d91(E)	2'-5"
d92(E)	2'-0"
d100(E)	4'-0"
d101(E)	2'-3"
d110(E)	4'-10"
d111(E)	2'-0"



**BARS v100(E), v101(E),
v110(E) & v111(E)**

Bar	I
v100(E)	7'-3"
v101(E)	6'-8"
v110(E)	6'-8"
v111(E)	6'-4"

SOUTHEAST RETAINING WALL BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d80(E)	25	#4	5'-7"	
d81(E)	25	#4	6'-7"	
d82(E)	8	#4	3'-0"	
h80(E)	2	#5	26'-8"	
h81(E)	2	#5	11'-9"	
h82(E)	41	#6	23'-5"	
h83(E)	37	#6	27'-6"	
h84(E)	4	#5	14'-7"	
h85(E)	4	#5	17'-8"	
h86(E)	32	#5	13'-3"	
h87(E)	16	#5	9'-10"	
n80(E)	35	#6	6'-10"	
n81(E)	35	#5	5'-7"	
n82(E)	8	#8	13'-7"	
n83(E)	8	#8	11'-9"	
n84(E)	112	#9	9'-7"	
* sp80	8	#4	32'-2"	
t80(E)	46	#9	15'-9"	
t81(E)	35	#7	14'-2"	
t82(E)	35	#5	8'-0"	
v80(E)	32	#5	14'-3"	
v81(E)	18	#5	11'-8"	
v82(E)	12	#5	11'-6"	
v83(E)	38	#5	12'-8"	
v84(E)	16	#5	13'-5"	
v85(E)	24	#5	18'-9"	
v86	112	#9	32'-2"	
w80(E)	15	#7	17'-8"	
w81(E)	15	#6	17'-8"	
w82(E)	15	#7	14'-7"	
w83(E)	15	#6	14'-7"	
Structure Excavation		Cu. Yd.	403	
Concrete Structures		Cu. Yd.	92.3	
Form Liner		Sq. Ft.	574	
Textured Surface		Sq. Ft.	574	
Reinforcement Bars		Pound	15,250	
Reinforcement Bars, Epoxy Coated		Pound	16,290	
Drilled Shaft in Soil		Cu. Yd.	67.1	
Concrete Sealer		Sq. Ft.	692	
Granular Backfill for Structures		Cu. Yd.	88	
Geocomposite Wall Drain		Sq. Yd.	55	
Pipe Underdrains for Structures 4"		Foot	48	
Crosshole Sonic Logging Access Ducts		Foot	256	
Crosshole Sonic Logging Testing		Each	1	
Chain Link Fence, 4' Attached to Structure		Foot	48	

* Length is height of spiral

NORTHEAST RETAINING WALL BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d90(E)	19	#4	8'-9"	
d91(E)	5	#4	5'-7"	
d92(E)	24	#4	4'-9"	
d93(E)	8	#4	3'-0"	
h90(E)	2	#5	26'-3"	
h91(E)	2	#5	7'-8"	
h92(E)	2	#5	15'-4"	
h93(E)	40	#6	22'-11"	
h94(E)	36	#6	27'-0"	
h95(E)	4	#5	17'-8"	
h96(E)	4	#5	13'-10"	
h97(E)	16	#5	9'-10"	
h98(E)	32	#5	13'-3"	
n84(E)	112	#9	9'-7"	
n90(E)	34	#6	6'-10"	
n91(E)	34	#5	5'-7"	
n92(E)	8	#8	13'-7"	
n93(E)	8	#8	11'-9"	
* sp80	8	#4	32'-2"	
t90(E)	45	#9	15'-9"	
t91(E)	34	#7	14'-2"	
t92(E)	34	#5	8'-0"	
v86	112	#9	32'-2"	
v90(E)	38	#5	13'-7"	
v91(E)	10	#5	11'-0"	
v92(E)	18	#5	10'-10"	
v93(E)	30	#5	12'-5"	
v94(E)	16	#5	13'-5"	
v95(E)	24	#5	18'-9"	
w90(E)	15	#7	17'-8"	
w91(E)	15	#6	17'-8"	
w92(E)	15	#7	13'-10"	
w93(E)	15	#6	13'-10"	
Structure Excavation		Cu. Yd.	384	
Concrete Structures		Cu. Yd.	90.2	
Form Liner		Sq. Ft.	549	
Textured Surface		Sq. Ft.	549	
Reinforcement Bars		Pound	15,250	
Reinforcement Bars, Epoxy Coated		Pound	15,930	
Drilled Shaft in Soil		Cu. Yd.	67.1	
Concrete Sealer		Sq. Ft.	692	
Granular Backfill for Structures		Cu. Yd.	84	
Geocomposite Wall Drain		Sq. Yd.	52	
Pipe Underdrains for Structures 4"		Foot	47	
Crosshole Sonic Logging Access Ducts		Foot	256	
Crosshole Sonic Logging Testing		Each	1	
Chain Link Fence, 4' Attached to Structure		Foot	47	

* Length is height of spiral

SOUTHWEST RETAINING WALL BILL OF MATERIAL

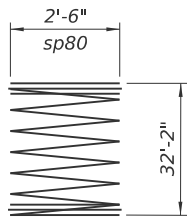
Bar	No.	Size	Length	Shape
d100(E)	29	#4	8'-9"	
d101(E)	29	#4	5'-3"	
h100(E)	30	#5	26'-9"	
h101(E)	2	#5	11'-10"	
h102(E)	32	#5	23'-8"	
n84(E)	140	#9	9'-7"	
n100(E)	58	#8	9'-4"	
n101(E)	50	#5	5'-7"	
* sp80	10	#4	32'-2"	
t100(E)	58	#8	14'-2"	
t101(E)	65	#9	15'-9"	
t102(E)	49	#5	8'-0"	
v86	140	#9	32'-2"	
v100(E)	29	#6	13'-1"	
v101(E)	29	#6	12'-6"	
v102(E)	25	#5	13'-1"	
v103(E)	25	#5	12'-6"	
w100(E)	60	#6	25'-9"	
Structure Excavation		Cu. Yd.	531	
Concrete Structures		Cu. Yd.	110.8	
Form Liner		Sq. Ft.	563	
Textured Surface		Sq. Ft.	563	
Reinforcement Bars		Pound	19,060	
Reinforcement Bars, Epoxy Coated		Pound	18,410	
Drilled Shaft in Soil		Cu. Yd.	83.8	
Granular Backfill for Structures		Cu. Yd.	87	
Concrete Sealer		Sq. Ft.	722	
Geocomposite Wall Drain		Sq. Yd.	57	
Pipe Underdrains for Structures 4"		Foot	48	
Crosshole Sonic Logging Access Ducts		Foot	320	
Crosshole Sonic Logging Testing		Each	1	
Chain Link Fence, 4' Attached to Structure		Foot	48	

* Length is height of spiral

NORTHWEST RETAINING WALL BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d110(E)	28	#4	10'-5"	
d111(E)	28	#4	4'-9"	
h110(E)	28	#5	25'-0"	
h111(E)	2	#5	7'-4"	
h112(E)	2	#5	14'-8"	
h113(E)	30	#5	21'-11"	
n84(E)	140	#9	9'-7"	
n110(E)	56	#8	9'-4"	
n111(E)	46	#5	5'-7"	
* sp80	10	#4	32'-2"	
t110(E)	54	#8	14'-2"	
t111(E)	60	#9	15'-9"	
t112(E)	45	#5	8'-0"	
v86	140	#9	32'-2"	
v110(E)	28	#6	12'-6"	
v111(E)	28	#6	12'-2"	
v112(E)	23	#5	12'-6"	
v113(E)	23	#5	12'-2"	
w100(E)	60	#6	24'-0"	
Structure Excavation		Cu. Yd.	465	
Concrete Structures		Cu. Yd.	102.0	
Form Liner		Sq. Ft.	515	
Textured Surface		Sq. Ft.	515	
Reinforcement Bars		Pound	19,060	
Reinforcement Bars, Epoxy Coated		Pound	17,400	
Drilled Shaft in Soil		Cu. Yd.	83.8	
Granular Backfill for Structures		Cu. Yd.	78	
Concrete Sealer		Sq. Ft.	656	
Geocomposite Wall Drain		Sq. Yd.	51	
Pipe Underdrains for Structures 4"		Foot	45	
Crosshole Sonic Logging Access Ducts		Foot	320	
Crosshole Sonic Logging Testing		Each	1	
Chain Link Fence, 4' Attached to Structure		Foot	45	

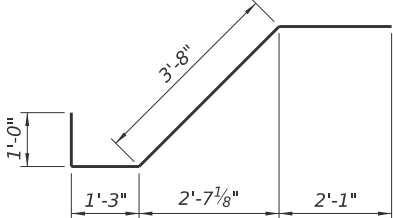
* Length is height of spiral



BAR sp80



REVISED SHEET 10/22/2025



**BARS t82(E), t92(E),
t102(E) & t112(E)**



USER NAME = GM	DESIGNED - RH	REVISED 1 - 9/11/2025
	CHECKED - GJH	REVISED -
PLOT SCALE =	DRAWN - RH	REVISED -
PLOT DATE = 9/17/2025	CHECKED - GJH	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

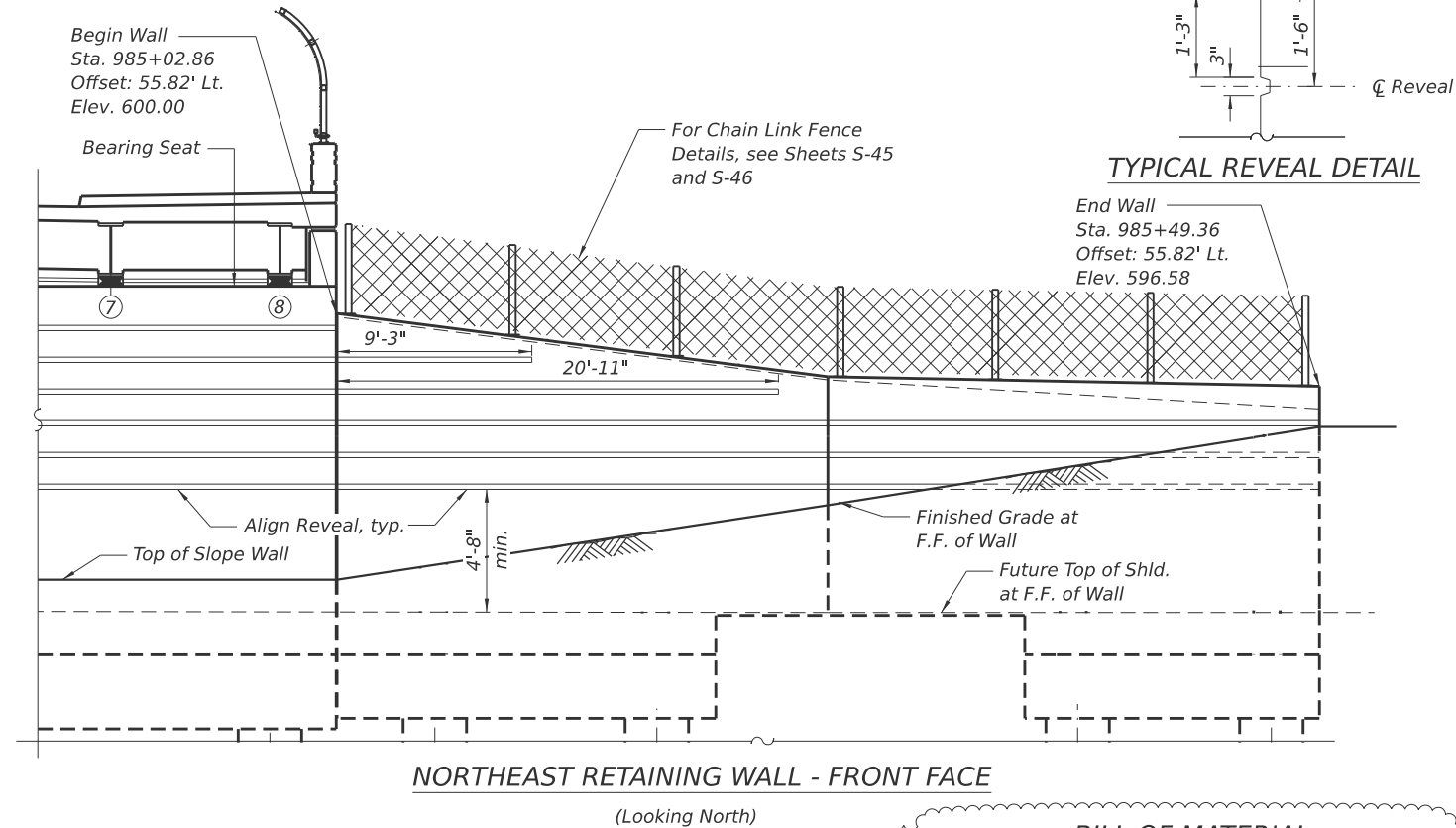
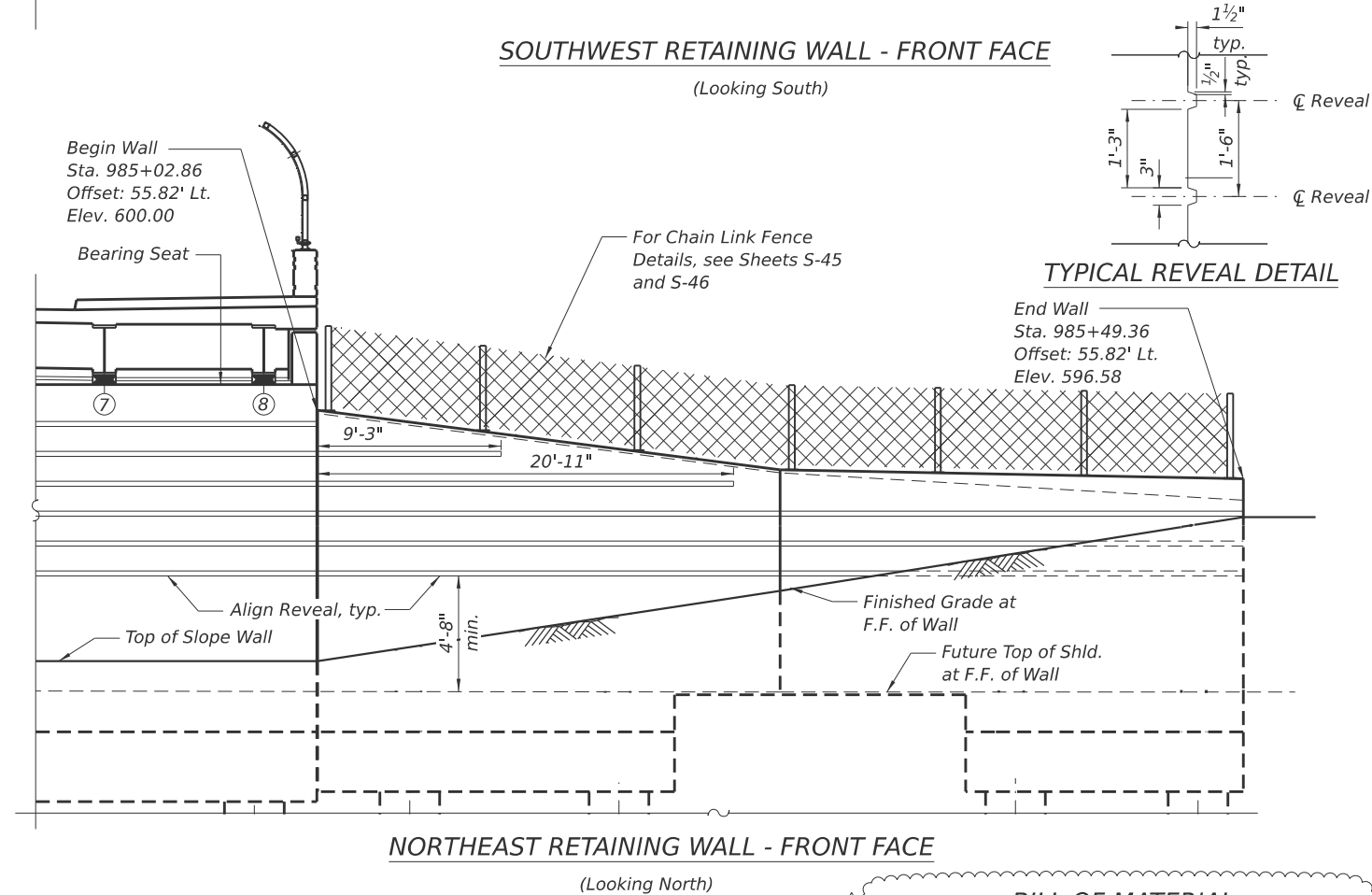
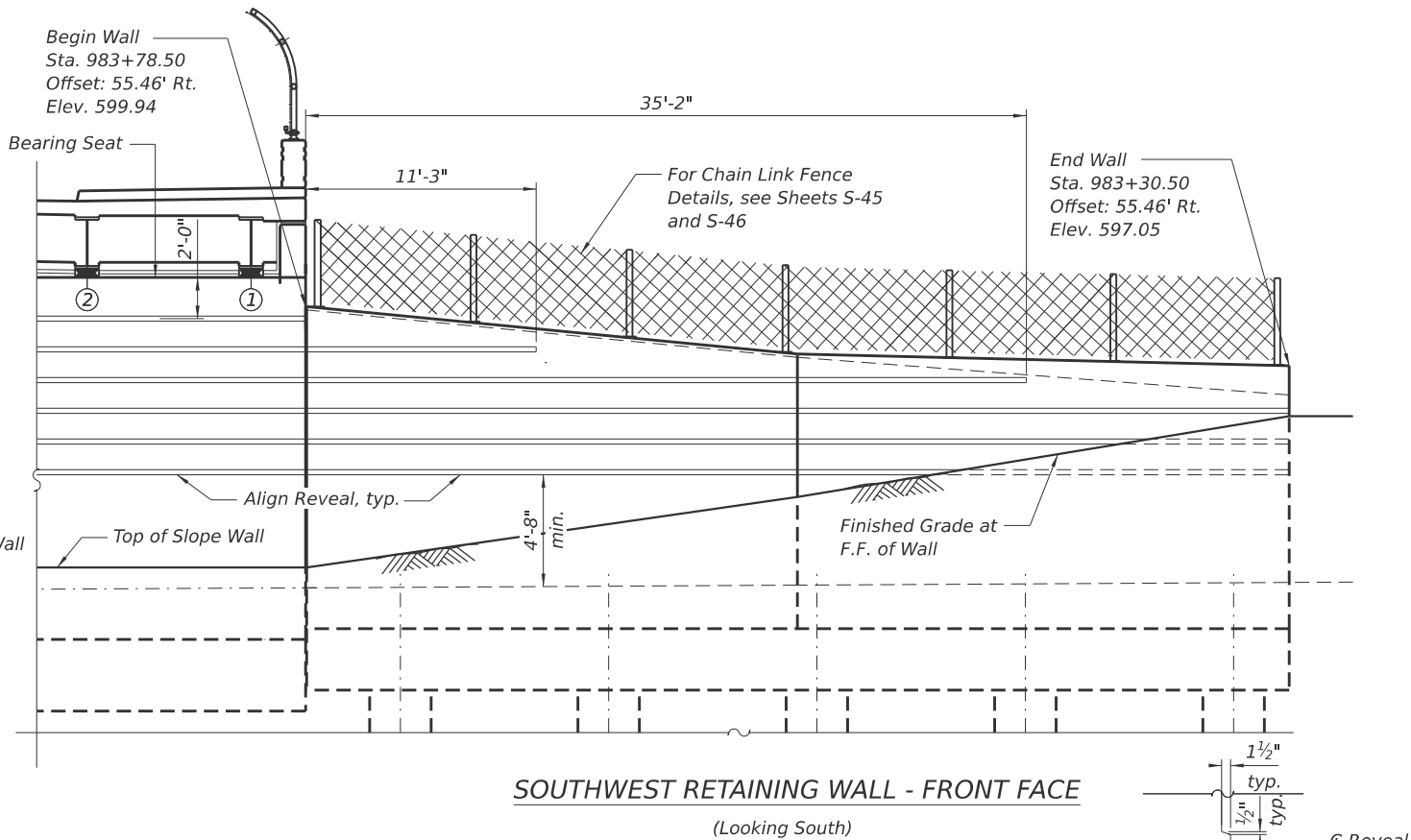
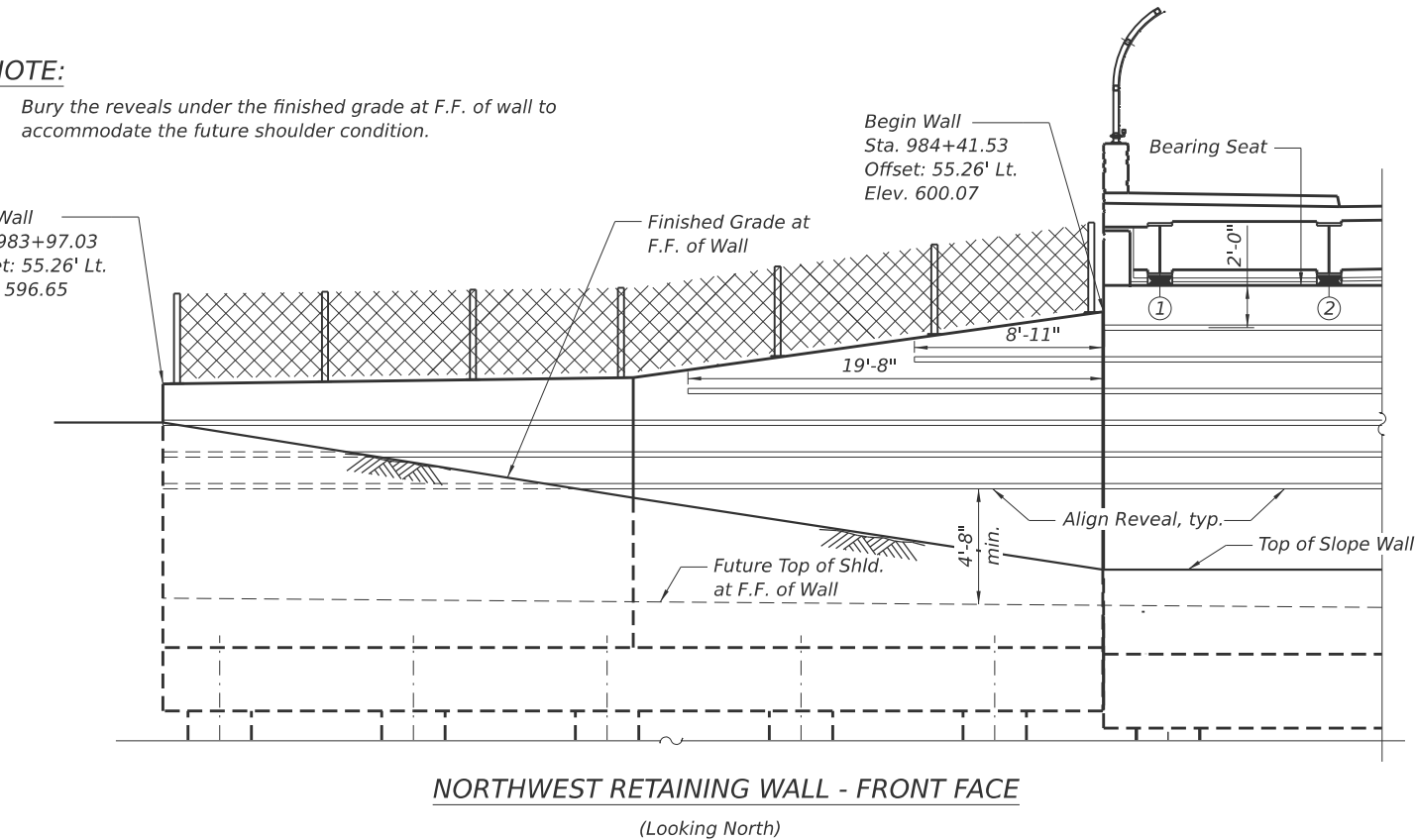
**RETAINING WALL DETAILS 2
STRUCTURE NO. 016-2093**

SHEET S-44 OF 63 SHEETS

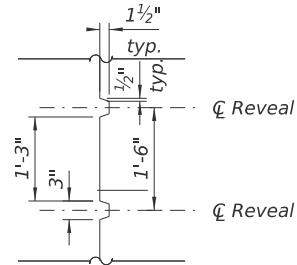
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 KEELER BR	COOK	283	188
CONTRACT NO. 62U41				
ILLINOIS FED. AID PROJECT				

MODEL: Abutment and Retaining Wall Architectural Details, [Sheet]
FILE NAME: p:\civiltch-pw\benfley.com\civiltch-pw\Documents\Projects\3855\CAD\CADD Sheets\17-Structures\162U41-SJT-047-Abut&RetWallArchDets

NOTE:
1. Bury the reveals under the finished grade at F.F. of wall to accommodate the future shoulder condition.



TYPICAL REVEAL DETAIL



USER NAME = GM	DESIGNED - JMI	REVISED 1 - 9/11/2025
	CHECKED - GJH	REVISED -
PLOT SCALE =	DRAWN - JMI	REVISED -
PLOT DATE = 9/11/2025	CHECKED - GJH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENT AND RETAINING WALL ARCHITECTURAL DETAILS
STRUCTURE NO. 016-2093

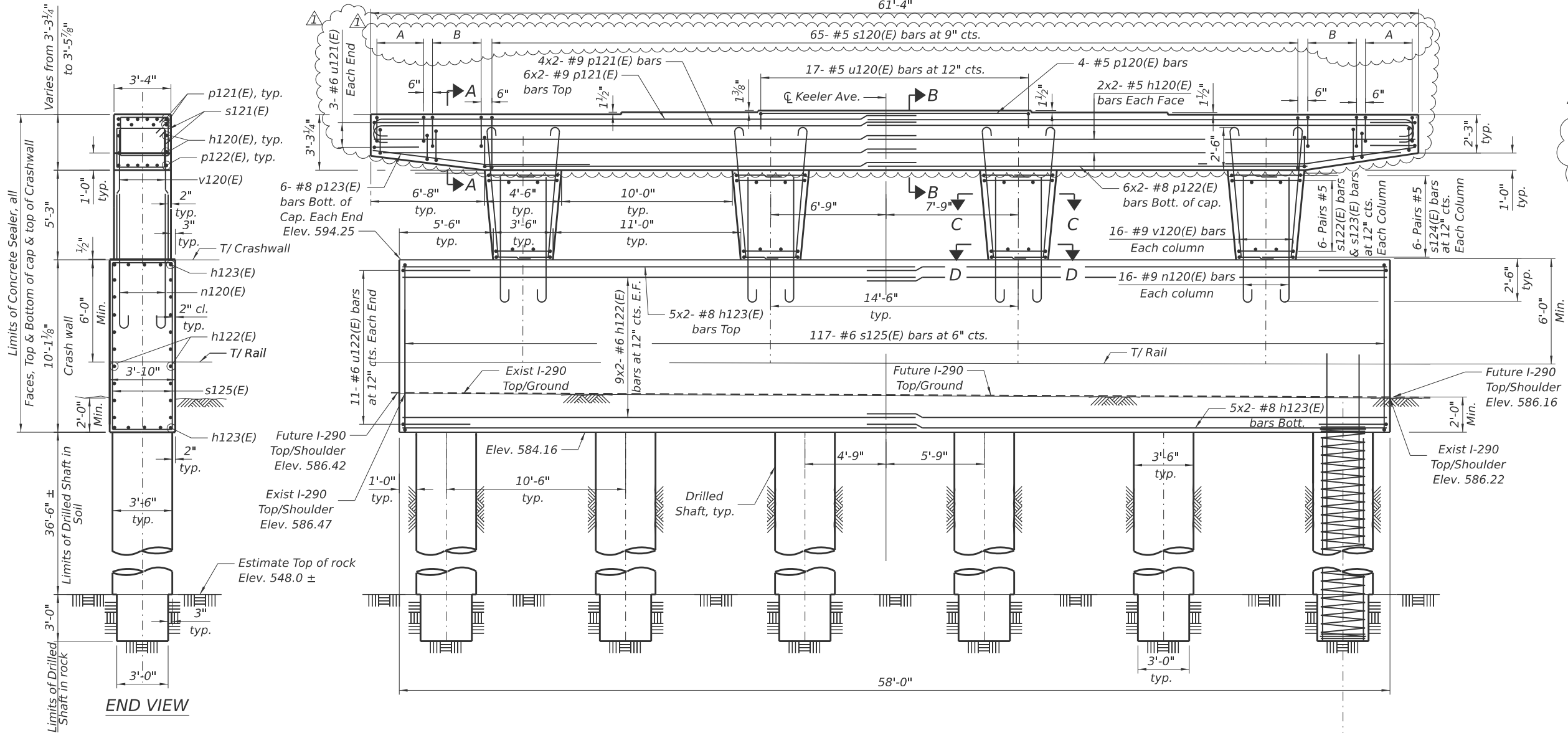
SHEET S-47 OF 63 SHEETS

BILL OF MATERIAL

Item	Unit	Quantity
Form Liner Textured Surface	Sq Ft	4,103

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 KEELER BR	COOK	283	191
CONTRACT NO. 62U41				
ILLINOIS FED. AID PROJECT				

MODEL: Pier 1 Plan-5 (Sheet)
FILE NAME: pvc://villtech-pw.bentley.com/cad/tech-pw/Documents/Projects/3855/CAD/CADD Sheets/17-Structures/D162U41-SHT-046-Pier 1 Plan & Elev



NOTES:

- See Sheet S-49 for the Bill of Material, Section A-A, B-B, C-C, D-D and Drilled Shaft details.
- Apply concrete sealer to all exposed concrete surface of the pier.
- Space reinforcement in cap to miss anchor bolts.
- Pour bearing seat steps monolithically with cap.

BEARING SEAT ELEVATION

Girder No.	Seat Elevation
1	602.77
2	602.77
3	602.89
4	602.99
5	602.99
6	602.87
7	602.75
8	602.75

REINFORCEMENT NOTES:

- A. 6-Pairs #5 s126(E) bars at 6" cts.
B. 7-Pairs #5 s121(E) bars at 6" cts.

MINIMUM BAR LAPS

#5 bar = 2'-9"
#6 bar = 3'-9"
#8 bar = 6'-3"
#9 bar = 6'-11"

REVISED SHEET 10/22/2025



USER NAME = GM	DESIGNED - RH, JMI	REVISED 1 - 9/11/2025
PLOT SCALE =	CHECKED - GJH	REVISED -
PLOT DATE = 9/15/2025	DRAWN - RH	REVISED -
	CHECKED - GJH	REVISED -

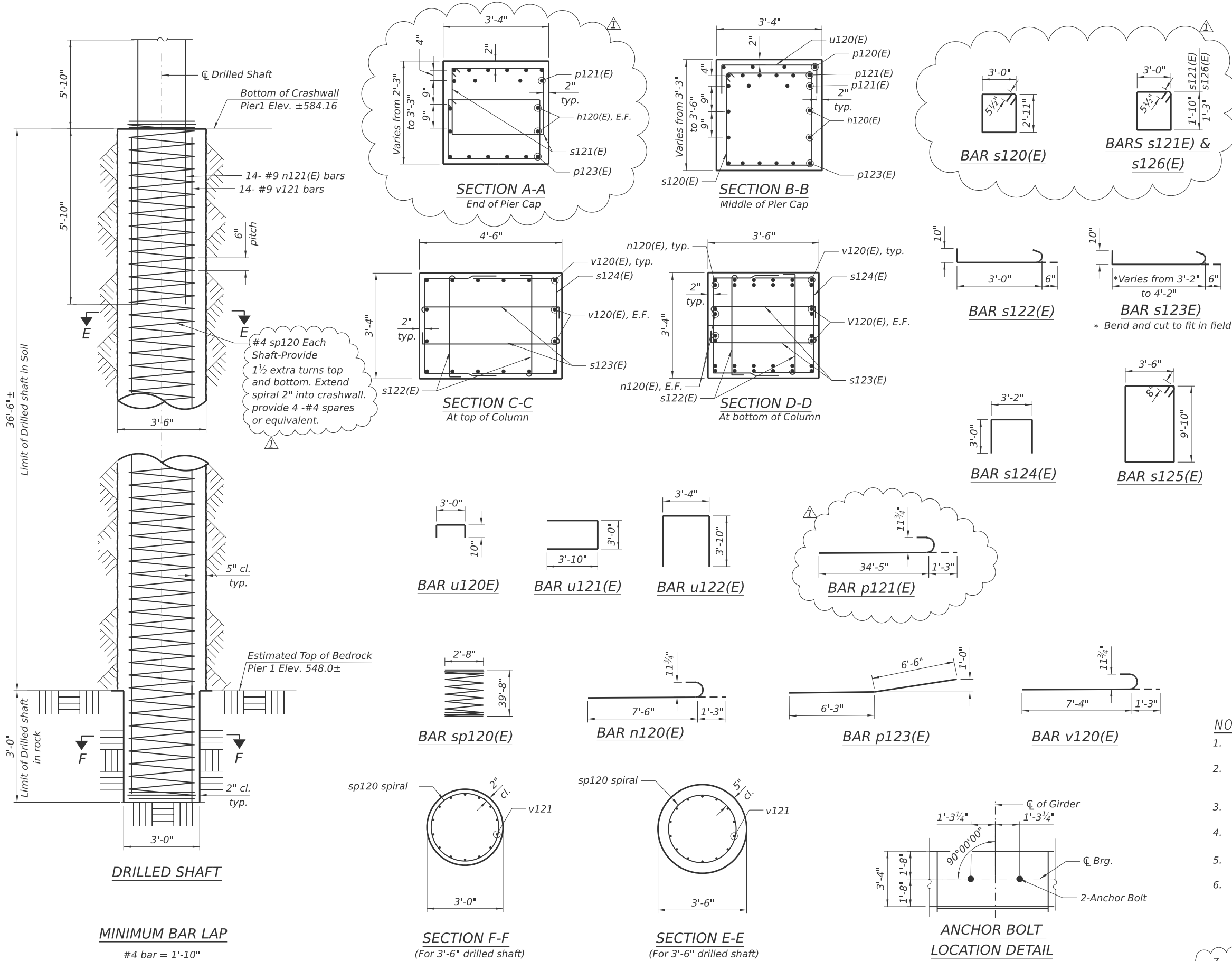
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 1 PLAN AND ELEVATION
STRUCTURE NO. 016-2093

SHEET S-48 OF 63 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 KEELER BR	COOK	283	192
CONTRACT NO. 62U41				
ILLINOIS FED. AID PROJECT				

MODEL: Pier 1 details-2 [Sheet]
FILE NAME: pvc://civiltech-pw.bentley.com/civiltech-pw/Documents/Projects/3855/CAD/CADD Sheets/17-Structures/D162U41-SHT-046-Pier1 Details



BILL OF MATERIAL				
Bar	No.	Size	Length	Shape
h120(E)	8	#5	31'-11"	
h122(E)	36	#6	30'-9"	
h123(E)	20	#8	32'-0"	
n120(E)	64	#9	8'-9"	
n121(E)	84	#9	11'-8"	
p120(E)	4	#5	16'-8"	
p121(E)	20	#9	35'-8"	
p122(E)	12	#8	27'-2"	
p123(E)	12	#8	12'-9"	
s120(E)	65	#5	12'-9"	
s121(E)	24	#5	10'-7"	
s122(E)	48	#5	4'-4"	
s123(E)	48	#5	5'-6"	
s124(E)	48	#5	9'-2"	
s125(E)	117	#6	28'-0"	
s126(E)	28	#5	9'-5"	
sp120	6	#4	39'-8"	
u120(E)	17	#5	4'-8"	
u121(E)	8	#5	10'-8"	
u122(E)	22	#6	11'-0"	
v120(E)	64	#9	8'-7"	
v121	84	#9	39'-8"	
Structure Excavation			Cu. Yd.	40
Concrete Structures			Cu. Yd.	118.6
Reinforcement Bars			Pound	14,260
Reinforcement Bars, Epoxy Coated			Pound	22,320
Drilled Shaft in Soil			Cu. Yd.	78.1
Drilled Shaft in Rock			Cu. Yd.	4.8
Concrete Sealer			Sq. Ft.	2197
Crosshole Sonic Logging Access Ducts			Foot	237
Crosshole Sonic Logging Testing			Each	1

- NOTES:
- Reinforcement bars designated (E) shall be epoxy coated.
 - Bars noted thus. 2x2- #5 indicated 2 lines of bars with 2 lengths of bars per line.
 - Bars equally spaced. unless otherwise e noted.
 - Apply concrete sealer to all exposed concrete surface of pier.
 - All edges shall have standard 3/4" chamfer.
 - The quantities and detailing are based on the estimated elevations shown on the plans. The actual elevations may differ at each shaft and corresponding adjustments shall be made to the drilled shaft and reinforcement quantities and payment limits.
 - Minimum lap for #4 spirals = 2'-2".

REVISED SHEET 10/22/2025



USER NAME = GM	DESIGNED - RH, JMI	REVISED - 9/11/2025
	CHECKED - GJH	REVISED -
PLOT SCALE =	DRAWN - RH	REVISED -
PLOT DATE = 9/15/2025	CHECKED - GJH	REVISED -

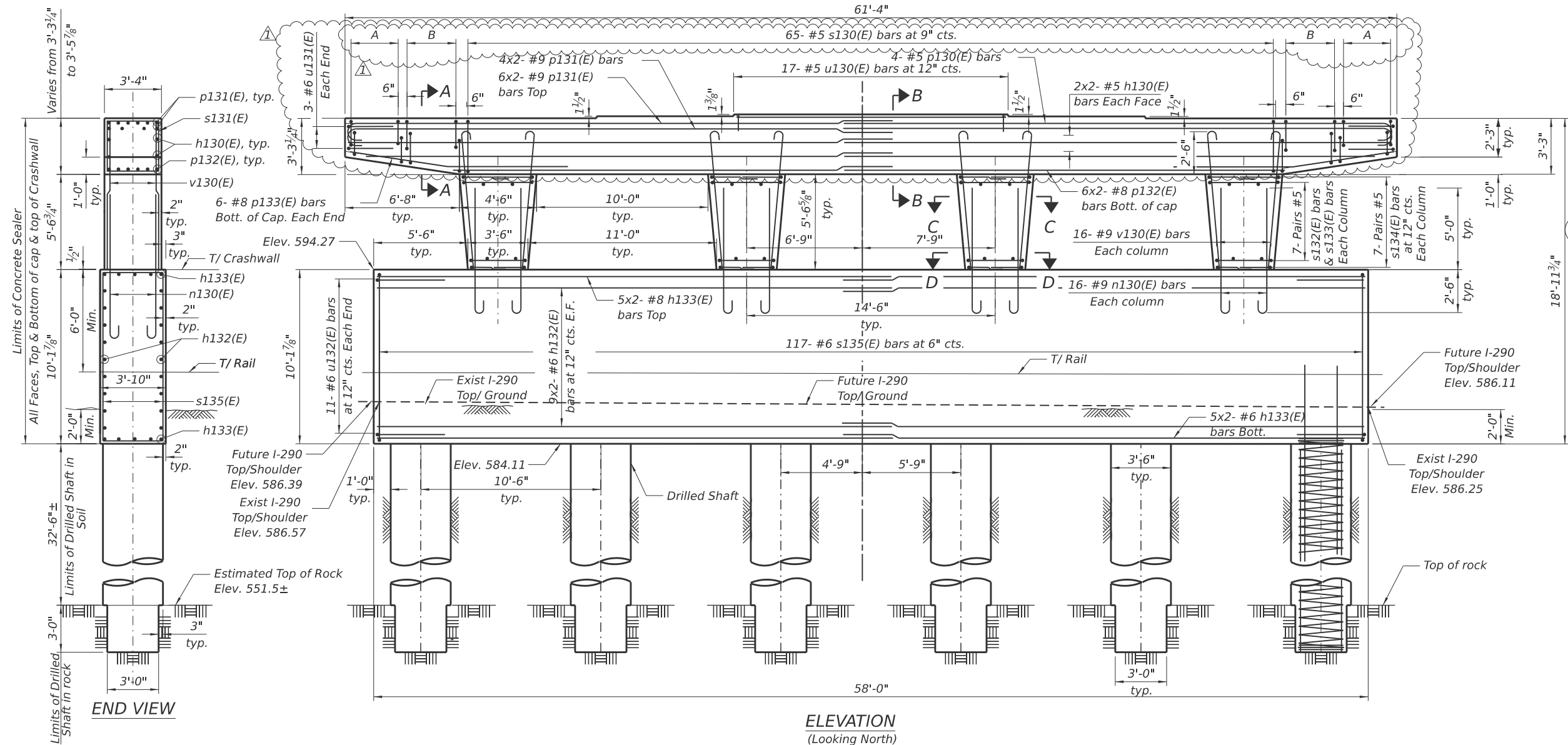
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 1 DETAILS & BILL OF MATERIALS
STRUCTURE NO. 016-2093

SHEET S-49 OF 63 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 KEELER BR	COOK	283	193
CONTRACT NO. 62U41				
ILLINOIS FED. AID PROJECT				

MODEL: Pler2PlanandElev. (Sheet)
FILE NAME: pwc:\d\l\tech-pw-bentley.com\d\tech-pw\Documents\Projects\3855\CAD\CADD Sheets\17-Structures\17-SHT-050-Pier 2 Plan& Elev



NOTES:

- See Sheet S-49 for the Bill of Material, Section A-A, B-B, C-C, D-D and Drilled Shaft details.
- Apply concrete sealer to all exposed concrete surface of the pier.
- Space reinforcement in cap to miss anchor bolts.
- Pour steps monolithically with cap.

BEARING SEAT ELEVATION

Girder No.	Seat Elevation
1	603.10
2	603.10
3	603.22
4	603.33
5	603.33
6	603.21
7	603.09
8	603.09

REINFORCEMENT NOTES:

- A. 6-Pairs #5 s126(E) bars at 6" cts.
B. 7-Pairs #5 s121(E) bars at 6" cts.

MINIMUM BAR LAPS

#5 bar = 2'-9"
#6 bar = 3'-9"
#8 bar = 6'-3"
#9 bar = 6'-11"

REVISED SHEET 10/22/2025



USER NAME = GM	DESIGNED - RH, JMI	REVISED - 9/11/2025
	CHECKED - GJH	REVISED -
PLOT SCALE =	DRAWN - RH	REVISED -
PLOT DATE = 9/15/2025	CHECKED - GJH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 2 PLAN AND ELEVATION
STRUCTURE NO. 016-2093

SHEET S-50 OF 63 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 KEELER BR	COOK	283	194
CONTRACT NO. 62U41				
ILLINOIS FED. AID PROJECT				

MODEL: Pier 2 details-3 [Sheet]
FILE NAME: pvc://civiltech-pw.bentley.com/civiltech-pw/Documents/Projects/3855/CAD/CADD Sheets/17-Structures/D162U41-SHT-051-Pier 2 Details.dgn



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USER NAME = GM	DESIGNED - RH, JMI	REVISED 1 - 9/11/2025
	CHECKED - GJH	REVISED -
PLOT SCALE =	DRAWN - RH	REVISED -
PLOT DATE = 9/17/2025	CHECKED - GJH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 2 DETAILS & BILL OF MATERIALS
STRUCTURE NO. 016-2093

SHEET S-51 OF 63 SHEETS

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h130(E)	8	#5	31'-11"	
h132(E)	36	#6	30'-9"	
h133(E)	20	#8	32'-0"	
n130(E)	64	#9	8'-9"	
n131(E)	84	#9	11'-8"	
p130(E)	4	#5	16'-8"	
p131(E)	20	#9	35'-8"	
p132(E)	12	#8	27'-2"	
p133(E)	12	#8	12'-9"	
s130(E)	65	#5	12'-9"	
s131(E)	24	#5	10'-7"	
s132(E)	56	#5	4'-4"	
s133(E)	56	#5	5'-6"	
s134(E)	56	#5	9'-2"	
s135(E)	117	#6	28'-0"	
s136(E)	28	#5	9'-5"	
sp130	6	#4	35'-8"	
u130(E)	13	#5	4'-8"	
u131(E)	8	#5	10'-8"	
u132(E)	22	#6	11'-2"	
v130(E)	64	#9	9'-0"	
v131	84	#9	35'-8"	
Structure Excavation			Cu. Yd.	42
Concrete Structures			Cu. Yd.	119.2
Reinforcement Bars			Pound	12,830
Reinforcement Bars, Epoxy Coated			Pound	22,560
Drilled Shaft in Soil			Cu. Yd.	69.5
Drilled Shaft in Rock			Cu. Yd.	4.8
Concrete Sealer			Sq. Ft.	2229
Crosshole Sonic Logging Access Ducts			Foot	213
Crosshole Sonic Logging Testing			Each	1

* Length is height of spiral

NOTES:

- Reinforcement bars designated (E) shall be epoxy coated.
- Bars noted thus. 2x2- #5 indicated 2 lines of bars with 2 lengths of bars per line.
- Bars equally spaced. unless otherwise e noted.
- Apply concrete sealer to all exposed concrete surface of pier.
- All edges shall have standard $\frac{3}{4}$ " chamfer.
- The quantities and detailing are based on the estimated elevations shown on the plans. The actual elevations may differ at each shaft and corresponding adjustments shall be made to the drilled shaft and reinforcement quantities and payment limits.
- Minimum lap for #4 spirals = 2'-2".

1 REVISED SHEET 10/22/2025

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 KEELER BR	COOK	283	195
CONTRACT NO. 62U41				
ILLINOIS FED. AID PROJECT				

