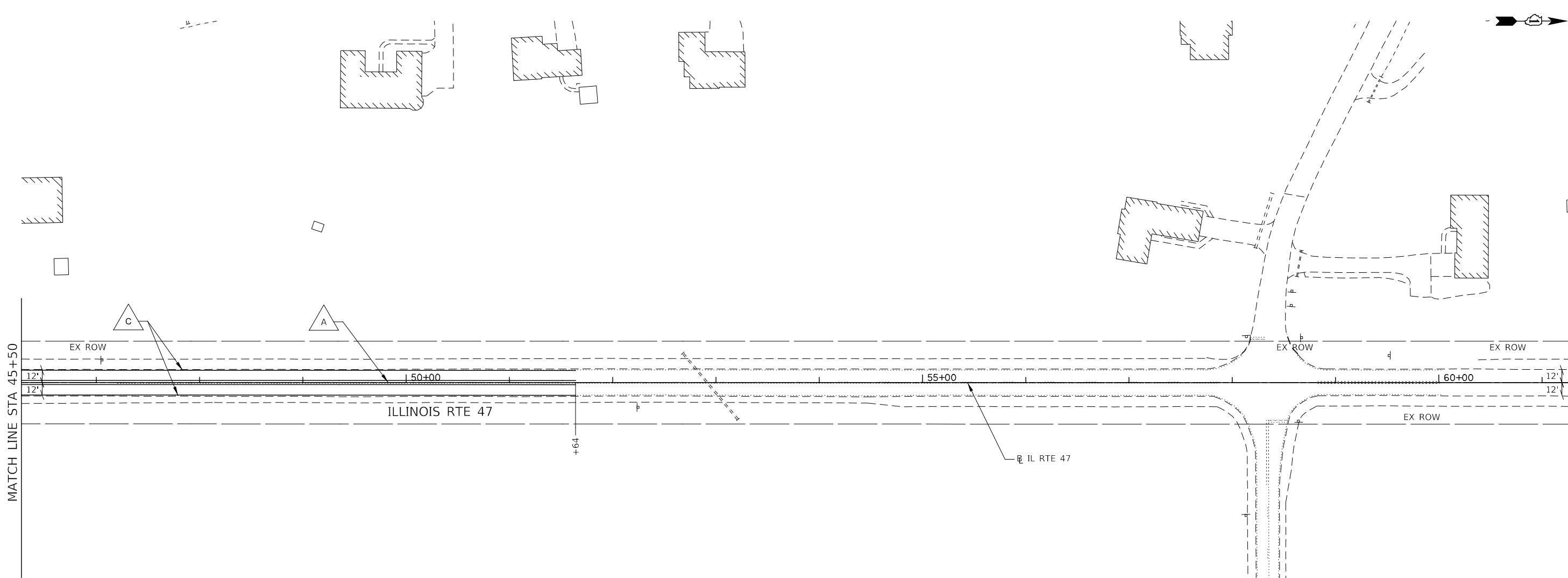


FILE NAME = D:\22A80-shr-pmk\04.dgn



NOTES

1. DELINEATOR SHALL BE INSTALLED IN ACCORDANCE WITH HIGHWAY STANDARD 635001-02.
2. RASIED REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED IN ACCORDANCE WITH DISTRICT 1 DETAIL TC-11.
3. RUMBLE STRIP SHALL BE IN ACCORDANCE WITH HIGHWAY STANDARD 635001-02

SIGNING LEGEND

PAVEMENT MARKING LEGEND

- A** THERMOPLASTIC PAVEMENT MARKING - DOUBLE LINE 4 INCH (YELLOW) WITH RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER MARKER
SEE NOTE 2
- B** MODIFIED URETHANE PAVEMENT MARKING - DOUBLE LINE 4 INCH (YELLOW) WITH RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER MARKER
SEE NOTE 2
- C** THERMOPLASTIC PAVEMENT MARKING - LINE 4 INCH (WHITE)
- D** MODIFIED URETHANE PAVEMENT MARKING - LINE 4 INCH (WHITE)

DIRECTION OF TRAFFIC
NB - NORTHBOUND
SB - SOUTHBOUND
EB - EASTBOUND
WB - WESTBOUND

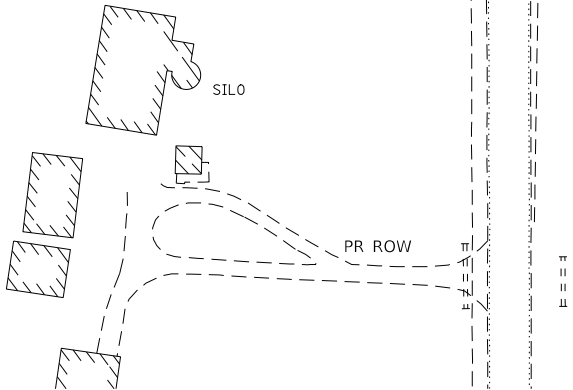
ROADWAY
47 - ILLINOIS ROUTE 47
FR - FOSTER ROAD
UR - UNION ROAD
HW - HAWTHORNE WAY

NB-47-WP-01-(P)

P / REL / REMAIN
P - PROPOSED
REL - RELOCATE
REMAIN - TO REMAIN

SIGN PANEL NUMBER

MOUNTING TYPE
WP - WOOD POST
TS - TELESCOPING STEEL



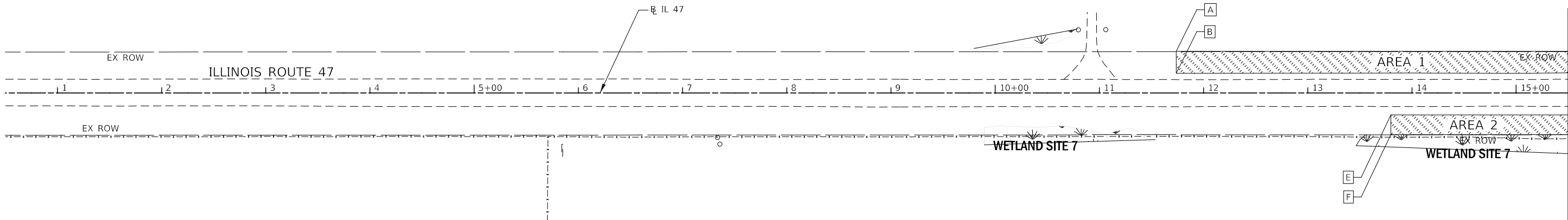
KNIGHT
Engineers & Architects

USER NAME = cliss	DESIGNED - CEL	REVISED -
PLOT SCALE = 1:100	DRAWN - CEL	REVISED -
PLOT DATE = 7/27/2020	CHECKED - JCM	REVISED -
	DATE - JULY 27, 2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLANS ILLINOIS ROUTE 47			
SCALE: 1" = 50'	SHEET 4	OF 4 SHEETS	STA. 45+50 TO STA. 61+50

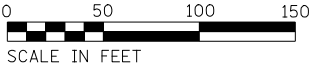
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(105XB)B-R	MCHENRY	223	101
CONTRACT NO. 62A80				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



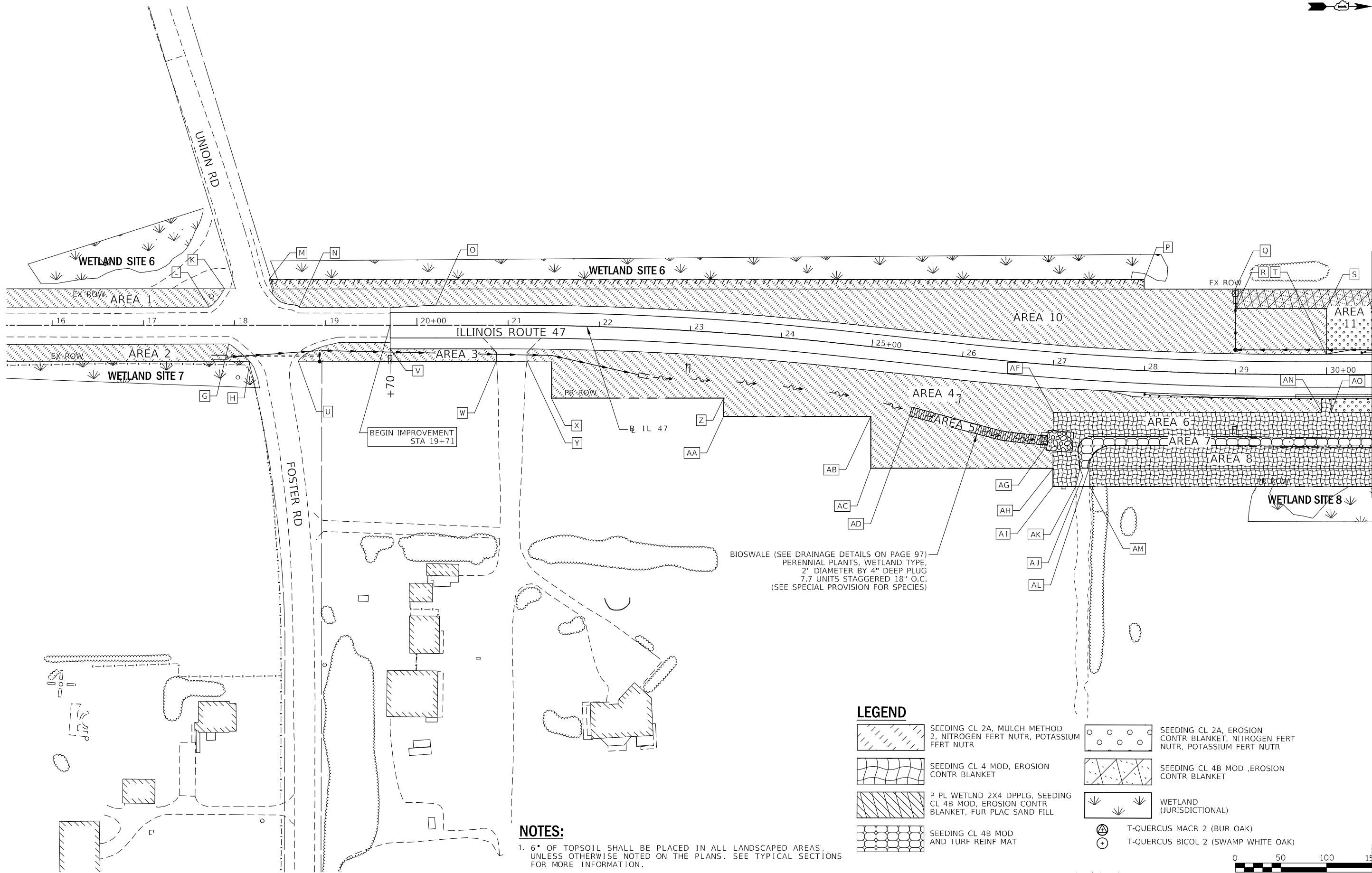
- NOTES:**
- 1. 6" OF TOPSOIL SHALL BE PLACED IN ALL LANDSCAPED AREAS, UNLESS OTHERWISE NOTED ON THE PLANS. SEE TYPICAL SECTIONS FOR MORE INFORMATION.
 - 2. FOR MORE INFORMATION REGARDING BIOSWALES, SEE DRAINAGE PLANS AND DETAILS.

LEGEND

	SEEDING CL 2A, MULCH METHOD 2. NITROGEN FERT NUTR, POTASSIUM FERT NUTR		SEEDING CL 2A, EROSION CONTR BLANKET, NITROGEN FERT NUTR, POTASSIUM FERT NUTR
	SEEDING CL 4 MOD, EROSION CONTR BLANKET		SEEDING CL 4B MOD ,EROSION CONTR BLANKET
	P PL WETLND 2X4 DPPLG, SEEDING CL 4B MOD, EROSION CONTR BLANKET, FUR PLAC SAND FILL		WETLAND (JURISDICTIONAL)
	SEEDING CL 4B MOD AND TURF REINF MAT		T-QUERCUS MACR 2 (BUR OAK)
			T-QUERCUS BICOL 2 (SWAMP WHITE OAK)



FILE NAME = D:\62A80-shr-Indep-01.dgn



- NOTES:**
1. 6" OF TOPSOIL SHALL BE PLACED IN ALL LANDSCAPED AREAS, UNLESS OTHERWISE NOTED ON THE PLANS. SEE TYPICAL SECTIONS FOR MORE INFORMATION.
 2. FOR MORE INFORMATION REGARDING BIOSWALES, SEE DRAINAGE PLANS AND DETAILS.

LEGEND



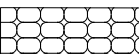
SEEDING CL 2A, MULCH METHOD
2. NITROGEN FERT NUTR, POTASSIUM
FERT NUTR



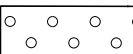
SEEDING CL 4 MOD, EROSION
CONTR BLANKET



P PL WETLND 2X4 DPPLG, SEEDING
CL 4B MOD, EROSION CONTR
BLANKET, FUR PLAC SAND FILL



SEEDING CL 4B MOD
AND TURF REINF MAT



SEEDING CL 2A, EROSION
CONTR BLANKET, NITROGEN FERT
NUTR, POTASSIUM FERT NUTR



SEEDING CL 4B MOD ,EROSION
CONTR BLANKET



WETLAND
(JURISDICTIONAL)



T-QUERCUS MACR 2 (BUR OAK)



T-QUERCUS BICOL 2 (SWAMP WHITE OAK)

0 50 100 150

SCALE IN FEET

FILE NAME = D:\62A80-shr-Indep-02.dgn

KNIGHT Engineers & Architects	USER NAME = cliss		DESIGNED - CEL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LANDSCAPE PLANS ILLINOIS ROUTE 47					F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			DRAWN - CEL	REVISED -							326	(105XB)B-R	MCHENRY	223	103
	PLOT SCALE = 1:100		CHECKED - JCM	REVISED -							CONTRACT NO. 62A80				
	PLOT DATE = 7/26/2020		DATE - JULY 27, 2020	REVISED -							FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
SCALE: 1" = 50'						SHEET 2	OF 5	SHEETS	STA. 15+50	TO STA. 30+50					

FILE NAME = D:\62A80-shr-Indecp-04.dgn



FILE NAME = D:\62A80-shr-Indepo.sched\ile.dgn

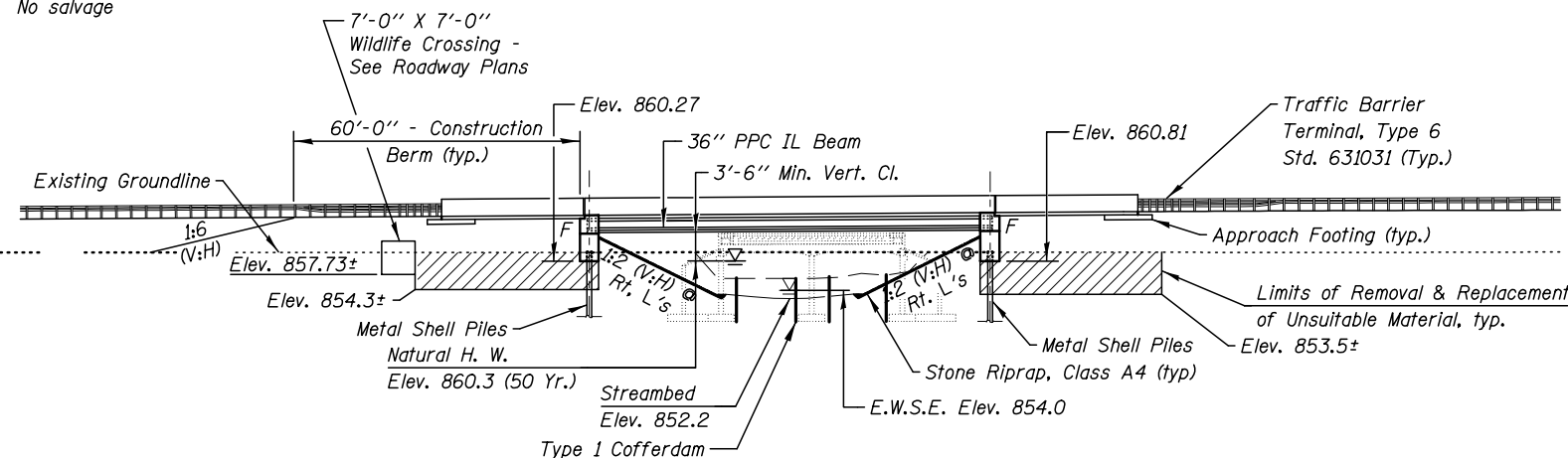
LANDSCAPING TABLE				
LOCATION	POINT #	STATION	OFFSET	AREA (SY)
AREA 1	A	11+74	40' LT	1411
	B	11+74	19' LT	
	K	17+89	40' LT	
	L	17+72	20' LT	
AREA 2	E	13+80	21' RT	900
	F	13+80	40' RT	
	G	17+94	21' RT	
	H	18+17	40' RT	
AREA 3	U	18+70	40' RT	376
	V	19+71	26' RT	
	W	20+87	40' RT	
AREA 4	X	21+49	80' RT	4709
	Y	21+21	40' RT	
	Z	23+42	72' RT	
	AA	23+43	92' RT	
	AB	25+08	77' RT	
	AC	25+15	134' RT	
	AD	25+50	71' RT	
	AF	27+04	52' RT	
	AG	27+00	88' RT	
	AH	27+08	112' RT	
AREA 5	AD	25+50	71' RT	171
	AG	27+00	88' RT	
AREA 6	AF	27+04	52' RT	1531
	AH	27+08	112' RT	
	AI	27+34	133' RT	
	AK	27+34	131' RT	
	AJ	27+37	111' RT	
	AN	29+95	42' RT	
	AO	30+05	42' RT	
	AP	31+32	28' RT	
	AQ	31+56	64' RT	
	AR	31+86	67' RT	
AREA 7	AJ	27+37	111' RT	568
	AL	27+46	110' RT	
	AR	31+86	67' RT	
AREA 8	AL	27+46	110' RT	2201
	AM	27+49	130' RT	
	AS	31+97	123' RT	

LANDSCAPING TABLE				
LOCATION	POINT #	STATION	OFFSET	AREA (SY)
AREA 9	AO	30+05	42' RT	206
	AP	31+32	28' RT	
AREA 10	M	18+38	50' LT	5966
	N	18+71	20' LT	
	O	20+21	22' LT	
	P	27+95	100' LT	
	Q	29+00	92' LT	
	R	29+00	72' LT	
AREA 11	S	30+00	72' LT	834
	T	30+00	22' LT	
	AU	31+64	73' LT	
	AW	31+56	24' LT	
AREA 12	Q	29+00	92' LT	610
	R	29+00	72' LT	
	S	30+00	72' LT	
	AU	31+64	73' LT	
AREA 13	AY	32+53	94' LT	1536
	AT	32+63	45' LT	
	AX	35+01	46' LT	
	AZ	35+01	73' LT	
AREA 14	BA	36+04	69' LT	526
	CD	36+06	90' LT	
	AT	32+63	45' LT	
	CU	32+64	24' LT	
AREA 15	CV	30+00	26' LT	3466
	AX	35+01	46' LT	
	CV	30+00	26' LT	
	AZ	35+01	73' LT	
	BA	36+04	69' LT	
	CD	36+06	90' LT	
	CC	37+60	76' LT	
	CB	37+61	81' LT	
	CE	43+41	45' LT	
	CF	43+41	40' LT	
AREA 16	BD	32+83	42' RT	347
	BE	34+99	27' RT	
AREA 17	BF	34+99	42' RT	15307
	BE	34+99	27' RT	
	BF	34+99	42' RT	
	BW	40+52	93' RT	
	BZ	42+89	532' RT	
	CH	40+34	532' RT	
AREA 18	CX	42+87	26' RT	9747
	CY	42+90	29' RT	
	BB	32+17	123' RT	
	BG	34+60	113' RT	
	BH	35+04	77' RT	
	BI	35+05	103' RT	
AREA 19	BM	35+69	140' RT	13973
	BN	35+55	205' RT	
	BQ	38+30	458' RT	
	BS	38+76	180' RT	
	BC	32+64	38' RT	
	BD	32+83	42' RT	
	BJ	35+47	77' RT	
	BK	35+47	97' RT	
	BL	35+13	161' RT	
	BN	35+55	205' RT	
AREA 20	BP	37+27	532' RT	722
	BQ	38+30	458' RT	
	BS	38+76	180' RT	
	BU	38+60	127' RT	
AREA 21	BV	38+63	107' RT	1204
	BW	40+52	93' RT	
	BZ	42+89	532' RT	
	CH	40+34	532' RT	
AREA 22	CA	43+30	156' RT	1777
	CB	37+61	81' LT	
	CE	43+41	40' LT	
	CG	43+52	40' LT	
AREA 23	CA	43+30	532' RT	410
	CI	43+31	40' RT	
	CJ	43+08	26' RT	
	CK	44+99	21' RT	
AREA 24	CL	45+00	40' RT	1777
	CW	43+05	29' RT	
	CZ	43+04	532' RT	
	CQ	45+22	21' RT	
AREA 25	CR	45+11	40' RT	410
	CS	47+04	20' RT	
AREA 26	CT	47+04	40' RT	410
	CT	47+04	40' RT	

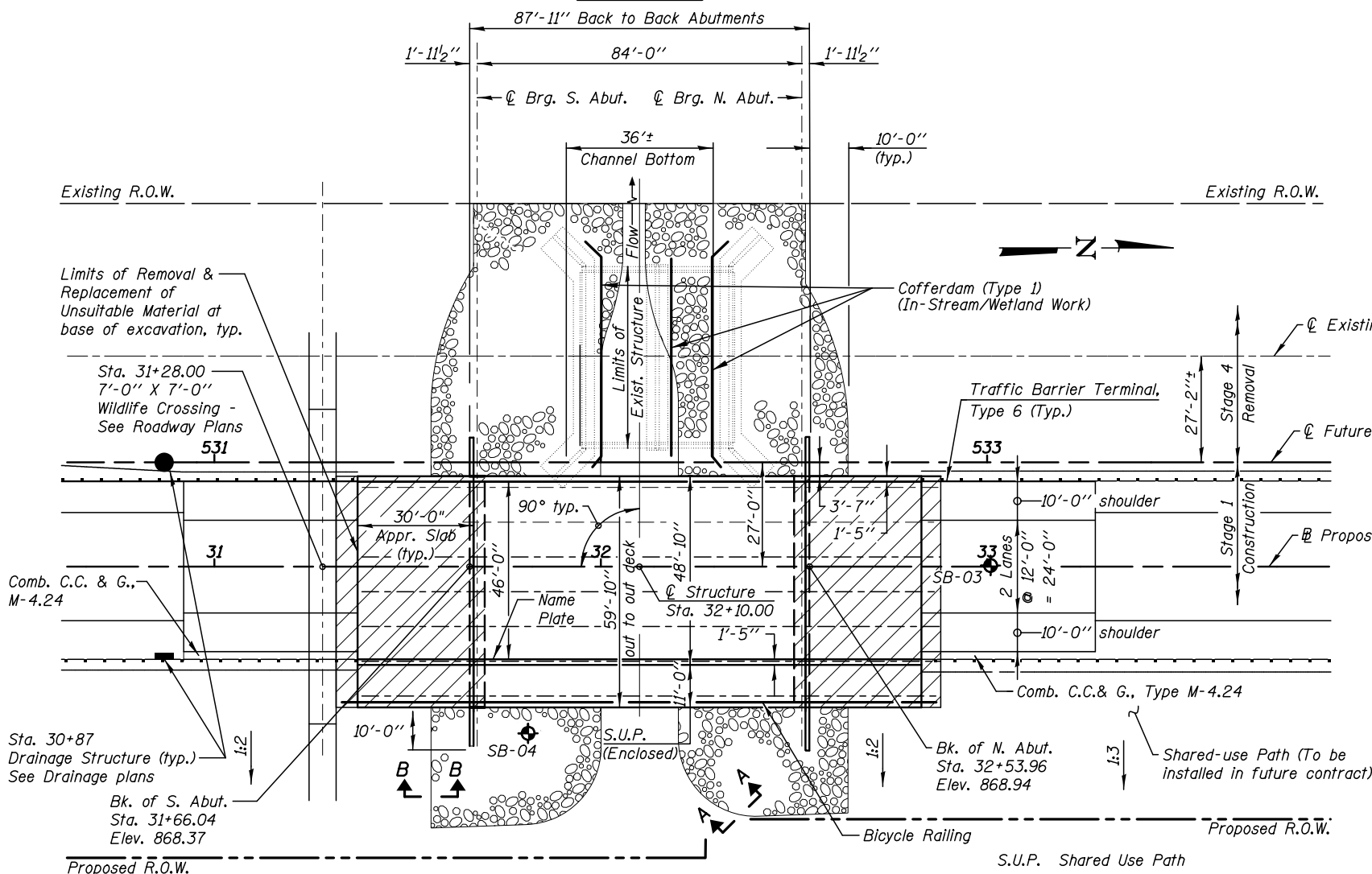
LANDSCAPING TABLE				
LOCATION	POINT #	STATION	OFFSET	AREA (SY)
AREA 21	CM	43+89	40' LT	1204
	CN	44+13	22' LT	
	CO	50+15	40' LT	
	CP	50+15	23' LT	
AREA 22	CA	43+30	532' RT	1777
	CI	43+31	40' RT	
	CJ	43+08	26' RT	
	CK	44+99	21' RT	
	CL	45+00	40' RT	
	CW	43+05	29' RT	
AREA 23	CZ	43+04	532' RT	410
	CQ	45+22	21' RT	
	CR	45+11	40' RT	
	CS	47+04	20' RT	
AREA 24	CT	47+04	40' RT	410
	CT	47+04	40' RT	

PERENNIAL PLANTS, WETLAND TYPE, 2" DIAMETER BY 4" DEEP PLUG			
AREA #	AREA (SQ FT)	# OF PLUGS	QUANTITY (UNIT)
6	1536	768	7.7
20	6500	3250	32.5
		TOTAL	40.2
ROUNDED TOTAL			41

No salvage



ELEVATION



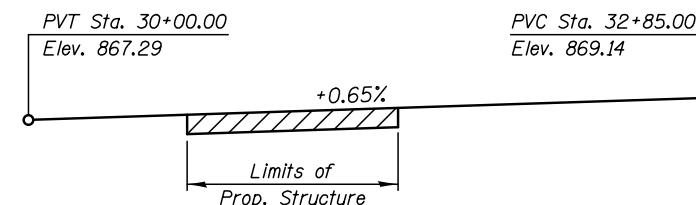
PLAN

WATERWAY INFORMATION

Drainage Area = 14.47 sq. mi. Low Grade Elev. 865.10 @ Sta. 21+75										
Flood	Freq. Yr.	Q (c.f.s.)		Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater E	
		Exist.	Prop.	Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
-	10	431	431	155	230	858.7	0.6	0.4	859.3	859.
Design	50	930	930	212	340	860.3	0.7	0.4	860.9	860.
Base	100	1255	1255	230	379	860.8	0.9	0.6	861.7	861.
-	200	1400	1400	236	395	861.0	0.8	0.6	861.8	861.
Max. Calc.	500	1880	1880	247	433	861.5	0.4	0.9	861.9	862.

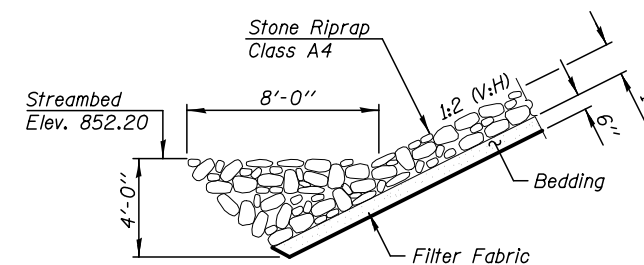
SCOUR ELEVATION TABLE

Design Scour Elevations (ft.)		Item 113
Event/Limit	SN 056-0316	
State	S. Abut. N. Abut.	8
Q100	860.27 860.81	
Q200	860.27 860.81	
Design	860.27 860.81	
Check	860.27 860.81	

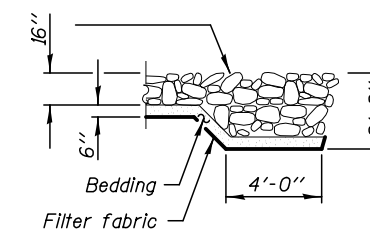


PROFILE GRADE

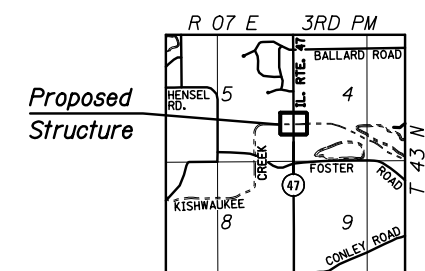
(Along PGL of IL Rte. 47)



SECTION A-A



SECTION B-B



LOCATION SKETCH

DESIGN SPECIFICATIONS

2017 AASHTO LRFD Bridge Design Specifications,
8th Edition

LOADING HL 93

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

DESIGN STRESSES

FIELD UNITS

$$\begin{aligned} f'_c &= 3,500 \text{ psi} \\ f'_c &= 4,000 \text{ psi (Superstructure concrete)} \\ f_y &= 60,000 \text{ psi (Reinforcement)} \end{aligned}$$

PRECAST PRESTRESSED UNITS

$$\begin{aligned} f'_c &= 8,500 \text{ psi} \\ f'_{ci} &= 7,000 \text{ psi} \\ f_{pu} &= 270,000 \text{ psi (0.6'' } \phi \text{ low lax strands)} \\ f_{pbt} &= 202,300 \text{ psi (0.6'' } \phi \text{ low lax strands)} \end{aligned}$$

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.08g
Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.139g
Soil Site Class = D



Jia Wang
Licensed Structural Engineer
State of Illinois Lic. No. 081-006586
Expires: 11-30-20
Date: XX-XX-XX
For Sheets S-1 to S-24

APPROVED
For Structural Adequacy Only

Dr. Carl Kump
Engineer of Bridges & Structures

GENERAL PLAN & ELEVATION
IL 47 OVER KISHWAUKEE RIVER

F.A.P. RTE. 326 SEC. 105X-B

MCHENRY COUNTY

STA. 32+10.00 (FUTURE STA. 532+10.00)

STRUCTURE NO. 056-0316

F.A.I./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105X-B	MCHENRY	223	107
CONTRACT NO. 62A80				
ILLINOIS FED. AID PROJECT				

GENERAL PLAN AND ELEVATION
STRUCTURE NUMBER 056-0316

SHEET NO. S-01 OF 24 SHEETS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DESIGNED - JW	REVISED
CHECKED - FW	REVISED
DRAWN - BK	REVISED
CHECKED - FW	REVISED

SCALE	-	NONE
DATE	-	8/25/2020

KNIGHT
Engineers & Architects

PLOT DATE = 10/8/2020

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.

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

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

Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure.

The Contractor is advised that the existing structure is in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the structure when developing construction procedures for removal and replacement of the structure. An Existing Structure Information Package is available upon request.

The limits and quantities of removal and replacement shown are based on the boring data and may be modified by the District Geotechnical and Field Engineers for variable subsurface conditions encountered in the field.

Slipforming of the parapet is not allowed.

INDEX OF SHEETS

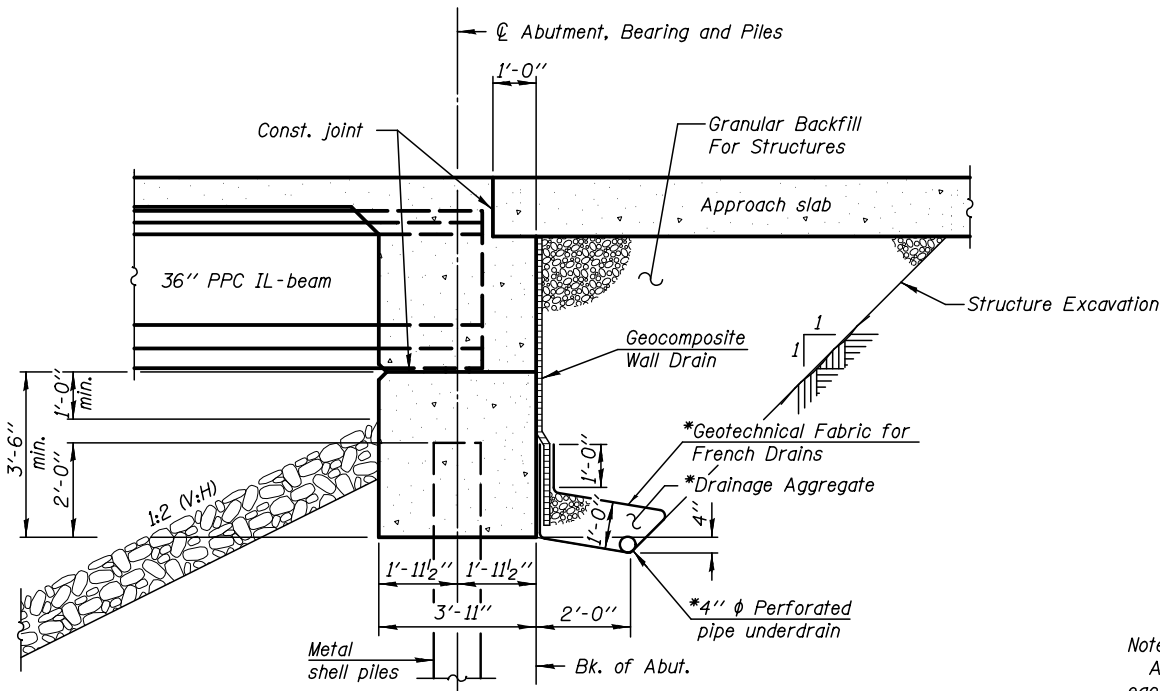
S-01	General Plan and Elevation
S-02	General Notes and Total Bill Of Material
S-03	Stage Construction Details
S-04	Temporary Concrete Barrier for Stage Construction
S-05	Top of Slab Elevations - 1
S-06	Top of Slab Elevations - 2
S-07	Top of South Approach Slab Elevations
S-08	Top of North Approach Slab Elevations
S-09	Deck Plan and Cross Section
S-10	Parapet Wall Details
S-11	Diaphragm Details
S-12	Superstructure Details
S-13	Approach Slab Plan
S-14	Approach Slab Details
S-15	Railing Details
S-16	Framing Plan and Details
S-17	36" PPC IL Beam
S-18	36" PPC IL Beam Details
S-19	South Abutment
S-20	North Abutment
S-21	Abutment Details
S-22	Metal Shell Pile Details
S-23	Soil Boring Logs - 1
S-24	Soil Boring Logs - 2
EX-01	Existing Bridge Plans - 1
EX-02	Existing Bridge Plans - 2
EX-03	Existing Bridge Plans - 3
EX-04	Existing Bridge Plans - 4
EX-05	Existing Bridge Plans - 5

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq. Yd.		1,748	1,748
Filter Fabric	Sq. Yd.		1,748	1,748
Removal of Existing Structures	Each	1		1
Structure Excavation	Cu. Yd.		243	243
Removal and Disposal of Unsuitable Material	Cu. Yd.		594	594
Cofferdam (Type 1) (In-Stream/Wetland Work)	Each		1	1
Concrete Structures	Cu. Yd.		112.9	112.9
Concrete Superstructure	Cu. Yd.	226.2		226.2
Bridge Deck Grooving	Sq. Yd.	715		715
Protective Coat	Sq. Yd.	1,128		1,128
Concrete Superstructure (Approach Slab)	Cu. Yd.	166.4		166.4
Furnishing and Erecting Precast Prestressed Concrete Beams, IL36	Foot	597.0		597.0
Reinforcement Bars, Epoxy Coated	Pound	117,130	19,970	137,100
Bicycle Railing	Foot	139		139
Parapet Railing	Foot	139		139
Furnishing Metal Shell Piles 14" X 0.250"	Foot		1,274	1,274
Driving Piles	Foot		1,274	1,274
Test Pile Metal Shells	Each		2	2
Name Plates	Each	1		1
Granular Backfill For Structures	Cu. Yd.		232	232
Geocomposite Wall Drain	Sq. Yd.		129	129
Pipe Underdrains For Structures 4"	Foot		176	176

STATION 32+10.00
BUILT 20XX BY
STATE OF ILLINOIS
F.A. RT. 326 SEC. 105X-B
LOADING HL-93
STRUCTURE NO. 056-0316

NAME PLATE
See Std. 515001



SECTION THRU INTEGRAL ABUTMENT

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

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

PLOT DATE = 10/8/2020

KNIGHT
Engineers & Architects

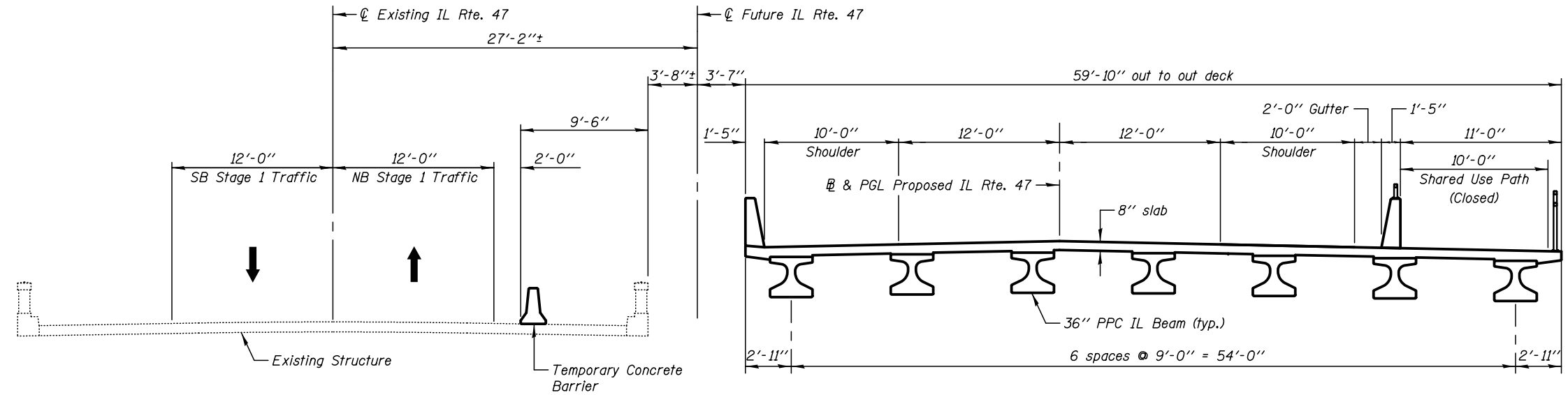
DESIGNED - JW	REVISED
CHECKED - FW	REVISED
DRAWN - BK	REVISED
CHECKED - FW	REVISED
SCALE - NONE	
DATE - 8/25/2020	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

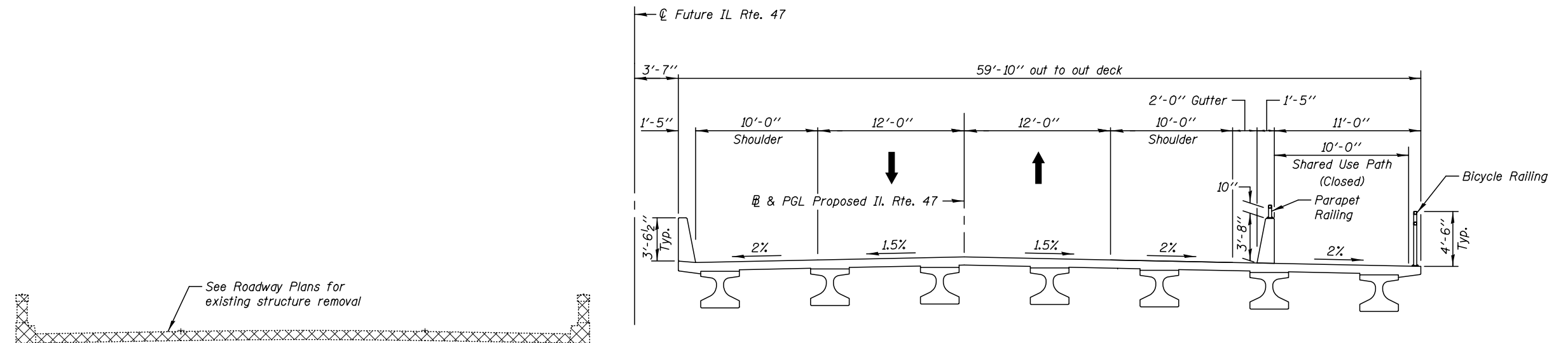
GENERAL NOTES AND TOTAL BILL OF MATERIAL
STRUCTURE NUMBER 056-0316

SHEET NO. S-02 OF 24 SHEETS

F.A./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105X-B	MCHENRY	223	108
CONTRACT NO. 62A80				
ILLINOIS FED. AID PROJECT				



STAGE 1 CONSTRUCTION
(Looking North)



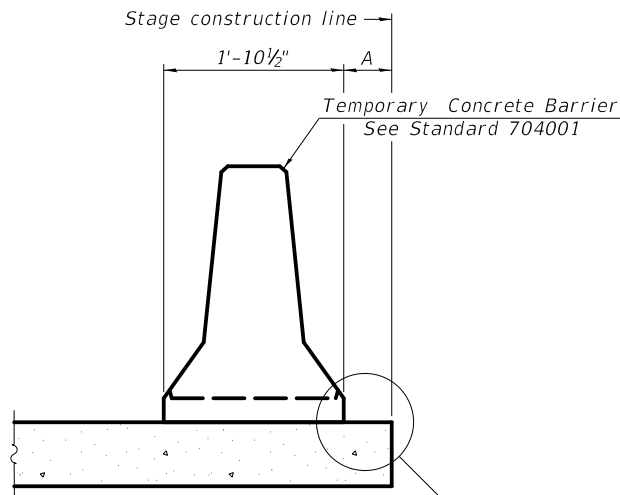
REMOVAL AND PROPOSED CROSS SECTION
(Looking North)

LEGEND

Removal of existing structure

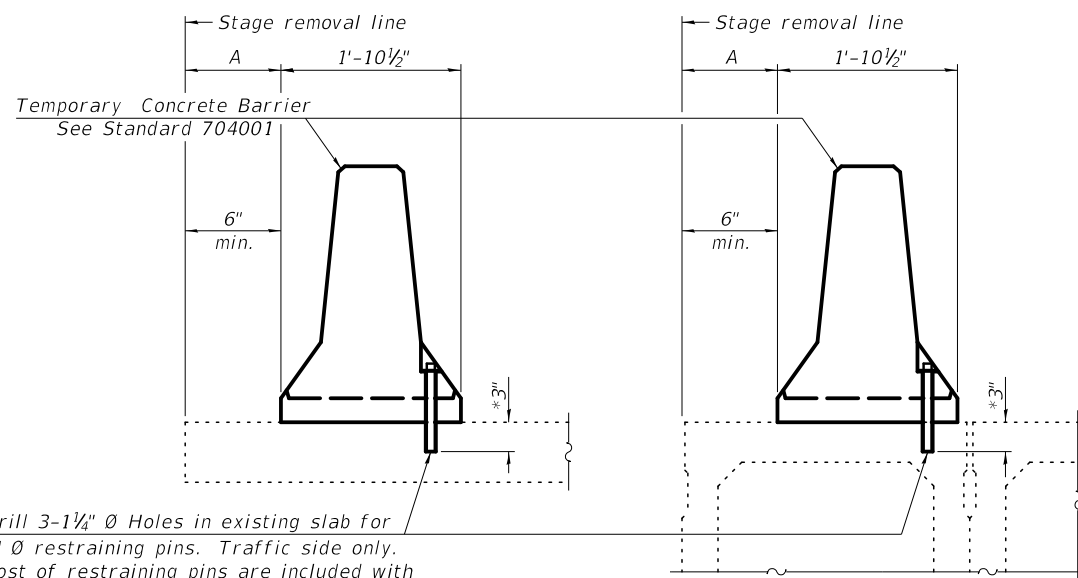
PLOT DATE = 7/29/2020

KNIGHT Engineers & Architects		DESIGNED - JW	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE CONSTRUCTION DETAILS STRUCTURE NUMBER 056-0316	F.A.I/P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	SCALE - NONE	CHECKED - AMD	REVISED			326	105X-B	MCHENRY	223	109
	DATE - 7/27/2020	DRAWN - BK	REVISED			CONTRACT NO. 62A80				
		CHECKED - AMD	REVISED			ILLINOIS FED. AID PROJECT				
	SHEET NO. S-03 OF 24 SHEETS									



When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

NEW SLAB OR NEW DECK BEAM

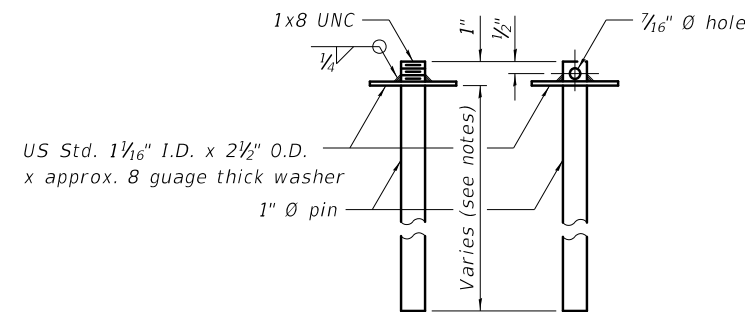


Drill 3-1 1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

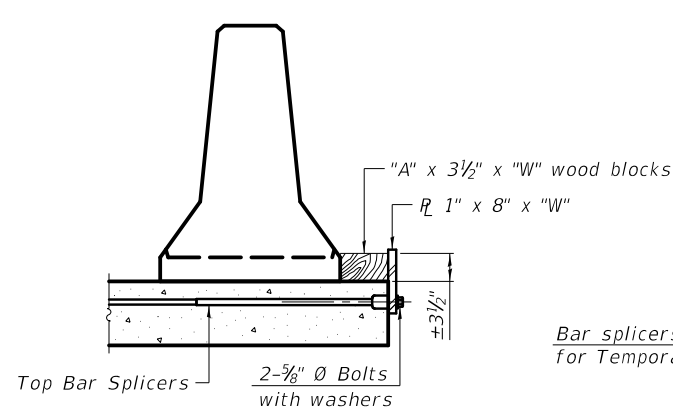
EXISTING SLAB

* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

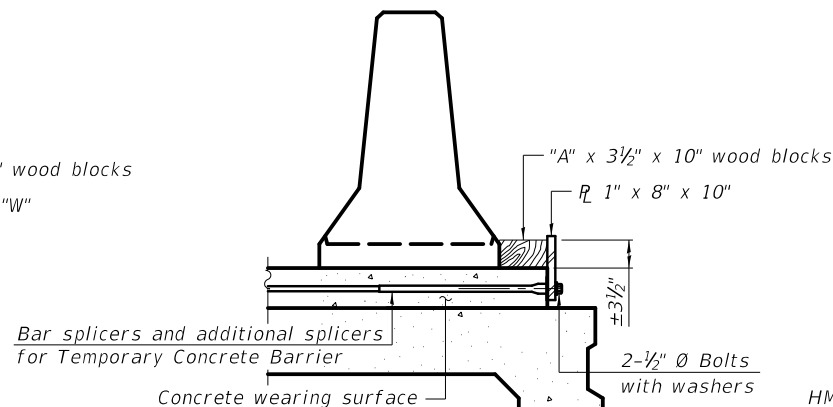
EXISTING DECK BEAM



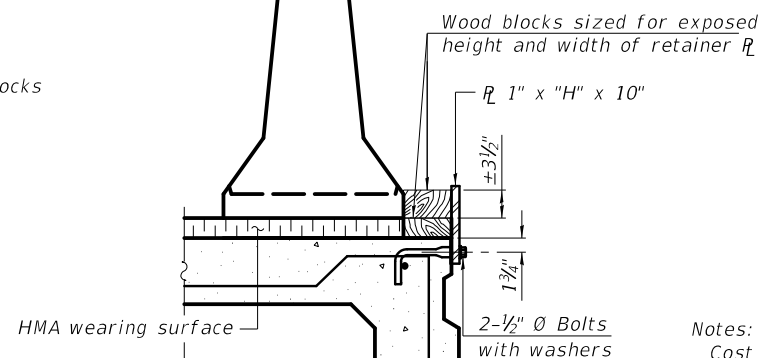
RESTRAINING PIN



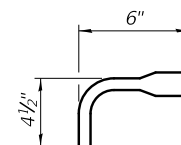
DETAIL I



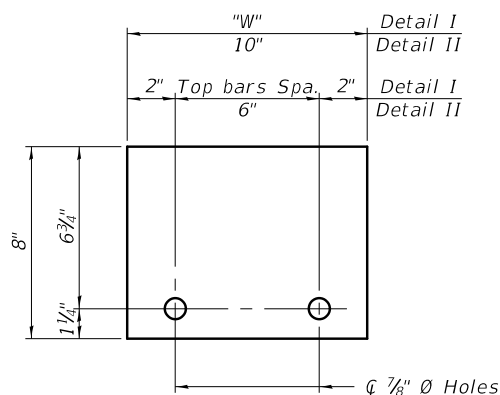
DETAIL II



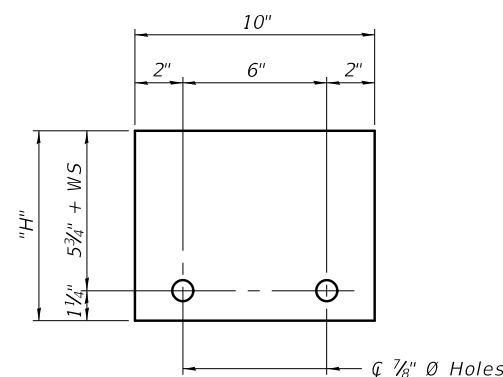
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



STEEL RETAINER R 1" x 8" x "W"
(Detail I and II)



STEEL RETAINER R 1" x "H" x 10"
(Detail III)

Notes:
Cost of retainer assembly is included with Temporary Concrete Barrier.
A retainer assembly shall be located at the approximate C of each temporary concrete barrier.
The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.
When the 'A' dimension is less than 1 1/2', the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

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

PLOT DATE = 7/29/2020

R-27

8-11-2017

KNIGHT

Engineers & Architects

DESIGNED - JW	REVISD
CHECKED - FW	REVISED
DRAWN - BK	REVISED
CHECKED - FW	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NUMBER 056-0316

SHEET NO. S-04 OF 24 SHEETS

F.A./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105X-B	MCHENRY	223	110
CONTRACT NO. 62A80				
ILLINOIS FED. AID PROJECT				

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. S. ABUT.	31+66.04	-20.50	868.02	868.02
CL. BRG. S. ABUT.	31+68.00	-20.50	868.03	868.03
A	31+78.00	-20.50	868.10	868.15
B	31+88.00	-20.50	868.16	868.25
C	31+98.00	-20.50	868.23	868.35
D	32+08.00	-20.50	868.29	868.43
E	32+18.00	-20.50	868.36	868.49
F	32+28.00	-20.50	868.42	868.53
G	32+38.00	-20.50	868.49	868.55
CL. BRG. N. ABUT.	32+52.00	-20.50	868.58	868.58
BK. N. ABUT.	32+53.96	-20.50	868.59	868.59

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. S. ABUT.	31+66.04	-11.50	868.20	868.20
CL. BRG. S. ABUT.	31+68.00	-11.50	868.21	868.21
A	31+78.00	-11.50	868.27	868.32
B	31+88.00	-11.50	868.34	868.43
C	31+98.00	-11.50	868.40	868.53
D	32+08.00	-11.50	868.47	868.61
E	32+18.00	-11.50	868.53	868.67
F	32+28.00	-11.50	868.60	868.71
G	32+38.00	-11.50	868.66	868.73
CL. BRG. N. ABUT.	32+52.00	-11.50	868.75	868.75
BK. N. ABUT.	32+53.96	-11.50	868.77	868.77

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. S. ABUT.	31+66.04	-2.50	868.33	868.33
CL. BRG. S. ABUT.	31+68.00	-2.50	868.34	868.34
A	31+78.00	-2.50	868.41	868.46
B	31+88.00	-2.50	868.47	868.57
C	31+98.00	-2.50	868.54	868.66
D	32+08.00	-2.50	868.60	868.74
E	32+18.00	-2.50	868.67	868.80
F	32+28.00	-2.50	868.73	868.84
G	32+38.00	-2.50	868.80	868.87
CL. BRG. N. ABUT.	32+52.00	-2.50	868.89	868.89
BK. N. ABUT.	32+53.96	-2.50	868.90	868.90

IL. RTE. 47 & PGL

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. S. ABUT.	31+66.04	0.00	868.37	868.37
CL. BRG. S. ABUT.	31+68.00	0.00	868.38	868.38
A	31+78.00	0.00	868.45	868.50
B	31+88.00	0.00	868.51	868.60
C	31+98.00	0.00	868.58	868.70
D	32+08.00	0.00	868.64	868.78
E	32+18.00	0.00	868.71	868.84
F	32+28.00	0.00	868.77	868.88
G	32+38.00	0.00	868.84	868.90
CL. BRG. N. ABUT.	32+52.00	0.00	868.93	868.93
BK. N. ABUT.	32+53.96	0.00	868.94	868.94

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. S. ABUT.	31+66.04	6.50	868.27	868.27
CL. BRG. S. ABUT.	31+68.00	6.50	868.28	868.28
A	31+78.00	6.50	868.35	868.40
B	31+88.00	6.50	868.41	868.51
C	31+98.00	6.50	868.48	868.60
D	32+08.00	6.50	868.54	868.68
E	32+18.00	6.50	868.61	868.74
F	32+28.00	6.50	868.67	868.78
G	32+38.00	6.50	868.74	868.81
CL. BRG. N. ABUT.	32+52.00	6.50	868.83	868.83
BK. N. ABUT.	32+53.96	6.50	868.84	868.84

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. S. ABUT.	31+66.04	15.50	868.12	868.12
CL. BRG. S. ABUT.	31+68.00	15.50	868.13	868.13
A	31+78.00	15.50	868.20	868.25
B	31+88.00	15.50	868.26	868.35
C	31+98.00	15.50	868.33	868.45
D	32+08.00	15.50	868.39	868.53
E	32+18.00	15.50	868.46	868.59
F	32+28.00	15.50	868.52	868.63
G	32+38.00	15.50	868.59	868.65
CL. BRG. N. ABUT.	32+52.00	15.50	868.68	868.68
BK. N. ABUT.	32+53.96	15.50	868.69	868.69

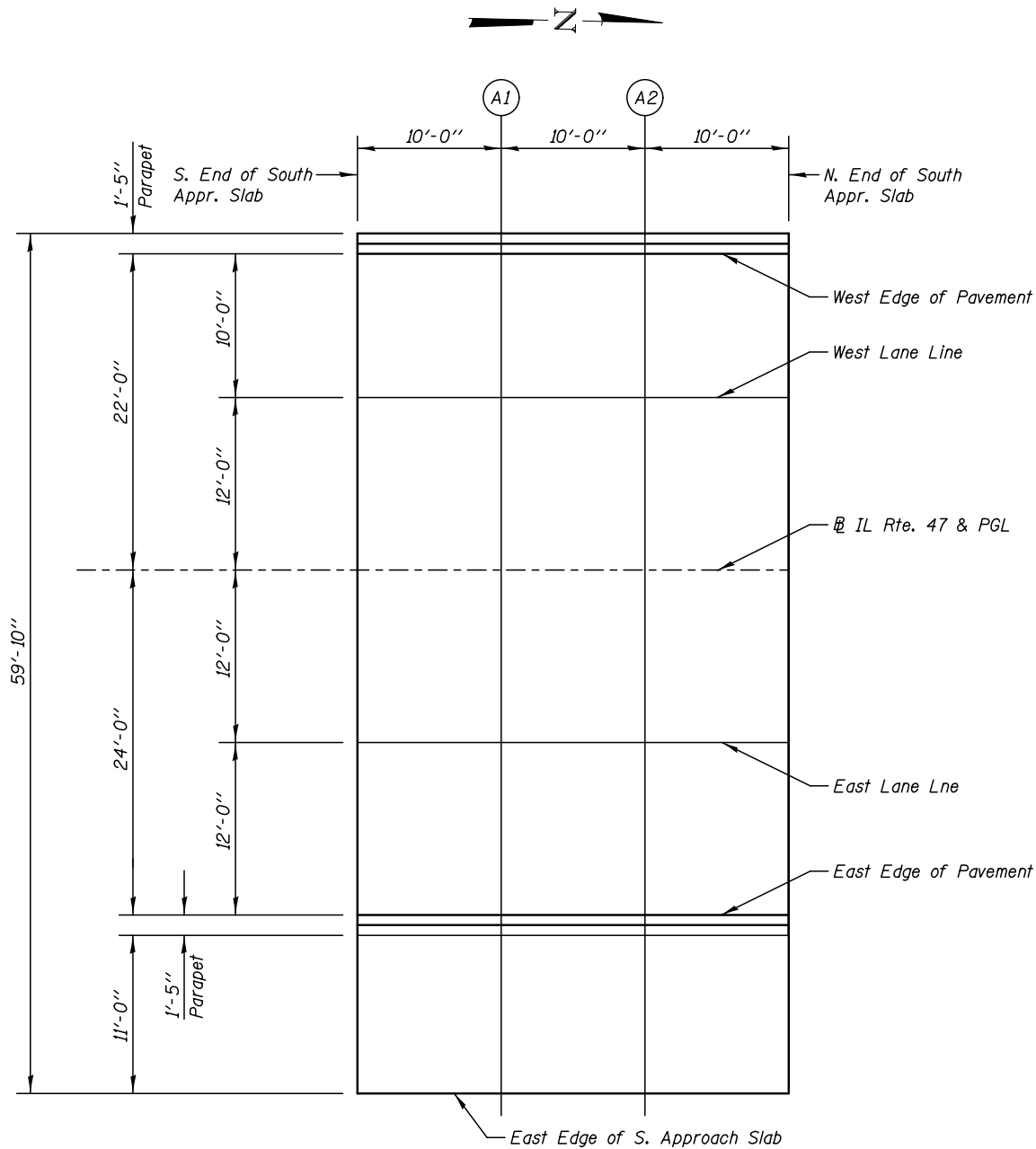
BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. S. ABUT.	31+66.04	24.50	867.94	867.94
CL. BRG. S. ABUT.	31+68.00	24.50	867.95	867.95
A	31+78.00	24.50	868.02	868.07
B	31+88.00	24.50	868.08	868.17
C	31+98.00	24.50	868.15	868.27
D	32+08.00	24.50	868.21	868.35
E	32+18.00	24.50	868.28	868.41
F	32+28.00	24.50	868.34	868.45
G	32+38.00	24.50	868.41	868.47
CL. BRG. N. ABUT.	32+52.00	24.50	868.50	868.50
BK. N. ABUT.	32+53.96	24.50	868.51	868.51

BEAM 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. S. ABUT.	31+66.04	33.50	867.76	867.76
CL. BRG. S. ABUT.	31+68.00	33.50	867.77	867.77
A	31+78.00	33.50	867.84	867.89
B	31+88.00	33.50	867.90	867.99
C	31+98.00	33.50	867.97	868.09
D	32+08.00	33.50	868.03	868.17
E	32+18.00	33.50	868.10	868.23
F	32+28.00	33.50	868.16	868.27
G	32+38.00	33.50	868.23	868.29
CL. BRG. N. ABUT.	32+52.00	33.50	868.32	868.32
BK. N. ABUT.	32+53.96	33.50	868.33	868.33

PLOT DATE = 7/29/2020



WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Slab	31+37.04	-22.00	867.80
A1	31+47.04	-22.00	867.87
A2	31+57.04	-22.00	867.93
N. End South Appr. Slab	31+67.04	-22.00	868.00

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Slab	31+37.04	24.00	867.76
A1	31+47.04	24.00	867.83
A2	31+57.04	24.00	867.89
N. End South Appr. Slab	31+67.04	24.00	867.96

WEST LANE LINE

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Slab	31+37.04	-12.00	868.00
A1	31+47.04	-12.00	868.07
A2	31+57.04	-12.00	868.13
N. End South Appr. Slab	31+67.04	-12.00	868.20

EAST EDGE OF S. APPR. SLAB

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Slab	31+37.04	36.42	867.51
A1	31+47.04	36.42	867.58
A2	31+57.04	36.42	867.64
N. End South Appr. Slab	31+67.04	36.42	867.71

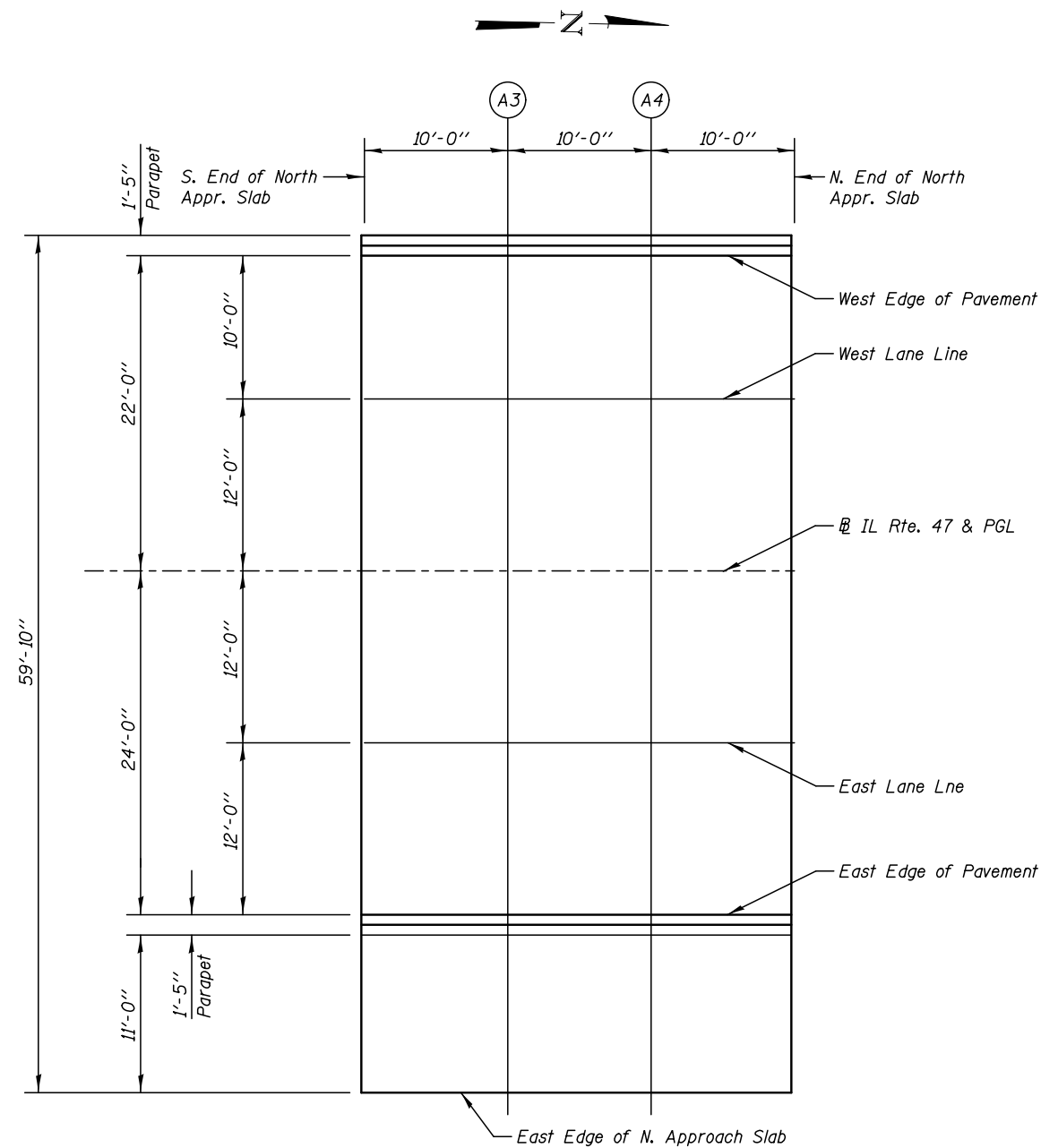
IL RTE. 47 & PGL

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Slab	31+37.04	0.00	868.18
A1	31+47.04	0.00	868.25
A2	31+57.04	0.00	868.31
N. End South Appr. Slab	31+67.04	0.00	868.38

EAST LANE LINE

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Slab	31+37.04	12.00	868.00
A1	31+47.04	12.00	868.07
A2	31+57.04	12.00	868.13
N. End South Appr. Slab	31+67.04	12.00	868.20

PLOT DATE = 7/29/2020



WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Slab	32+52.96	-22.00	868.55
A3	32+62.96	-22.00	868.62
A4	32+72.96	-22.00	868.68
N. End North Appr. Slab	32+82.96	-22.00	868.75

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Slab	32+52.96	24.00	868.51
A3	32+62.96	24.00	868.58
A4	32+72.96	24.00	868.64
N. End North Appr. Slab	32+82.96	24.00	868.71

WEST LANE LINE

Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Slab	32+52.96	-12.00	868.75
A3	32+62.96	-12.00	868.82
A4	32+72.96	-12.00	868.88
N. End North Appr. Slab	32+82.96	-12.00	868.95

EAST EDGE OF N. APPR. SLAB

Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Slab	32+52.96	36.42	868.27
A3	32+62.96	36.42	868.33
A4	32+72.96	36.42	868.40
N. End North Appr. Slab	32+82.96	36.42	868.46

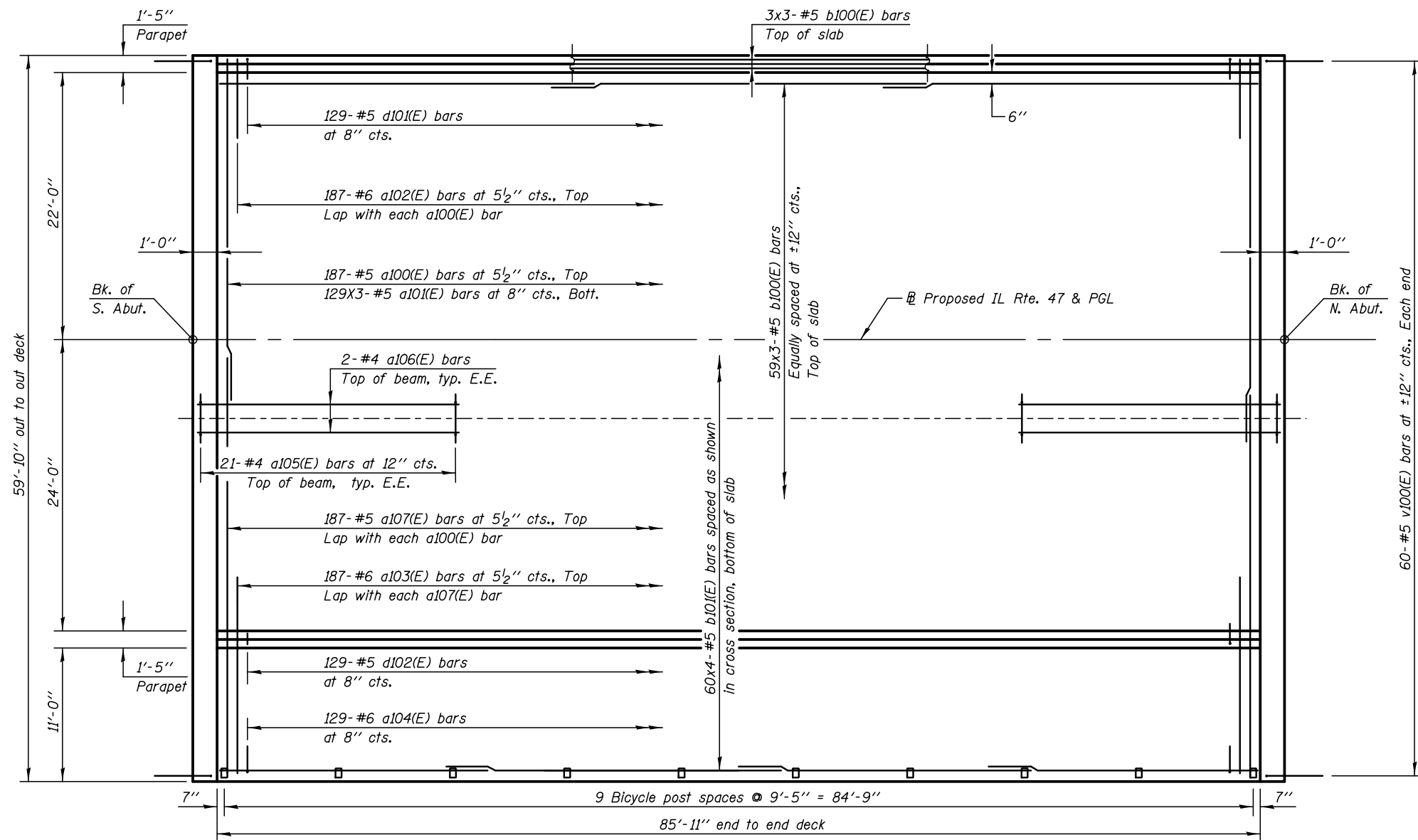
IL. RTE. 47 & PGL

Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Slab	32+52.96	0.00	868.93
A3	32+62.96	0.00	869.00
A4	32+72.96	0.00	869.06
N. End North Appr. Slab	32+82.96	0.00	869.13

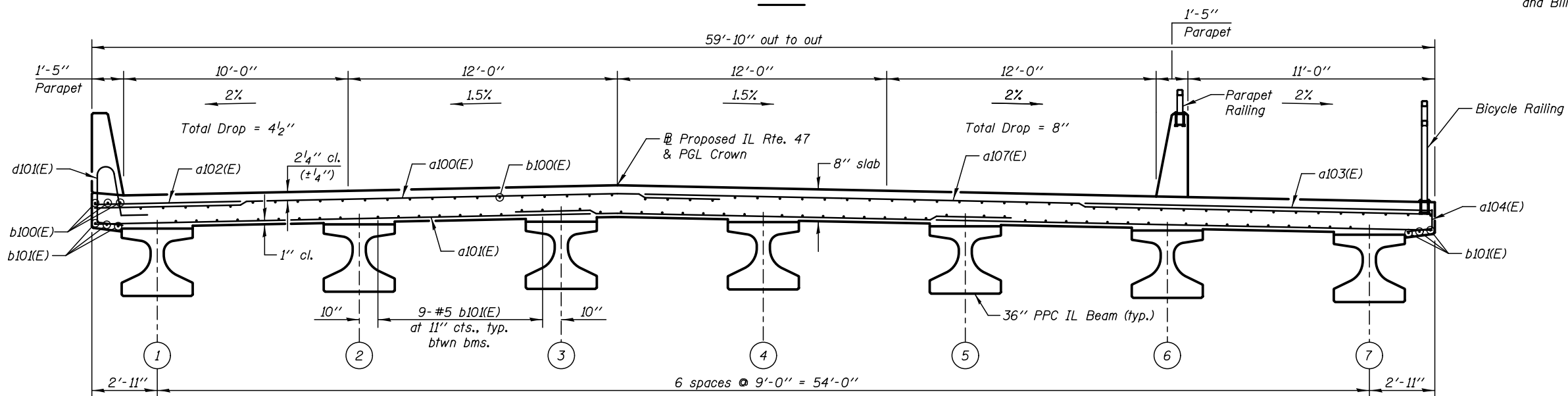
EAST LANE LINE

Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Slab	32+52.96	12.00	868.75
A3	32+62.96	12.00	868.82
A4	32+72.96	12.00	868.88
N. End North Appr. Slab	32+82.96	12.00	868.95

PLOT DATE = 7/29/2020



PLAN



CROSS SECTION
(Looking North)

Notes:

Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.

See Sheet S-10 for Parapet Wall Details.

See Sheet S-12 for Superstructure Details and Bill of Material.

Min. Bar Lap
#5 bar = 3'-6"

E.E. = Each End

PLOT DATE = 7/29/2020

KNIGHT

Engineers & Architects

DESIGNED - JW	REVISED
CHECKED - FW	REVISED
DRAWN - BK	REVISED
CHECKED - FW	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK PLAN AND CROSS SECTION
STRUCTURE NUMBER 056-0316

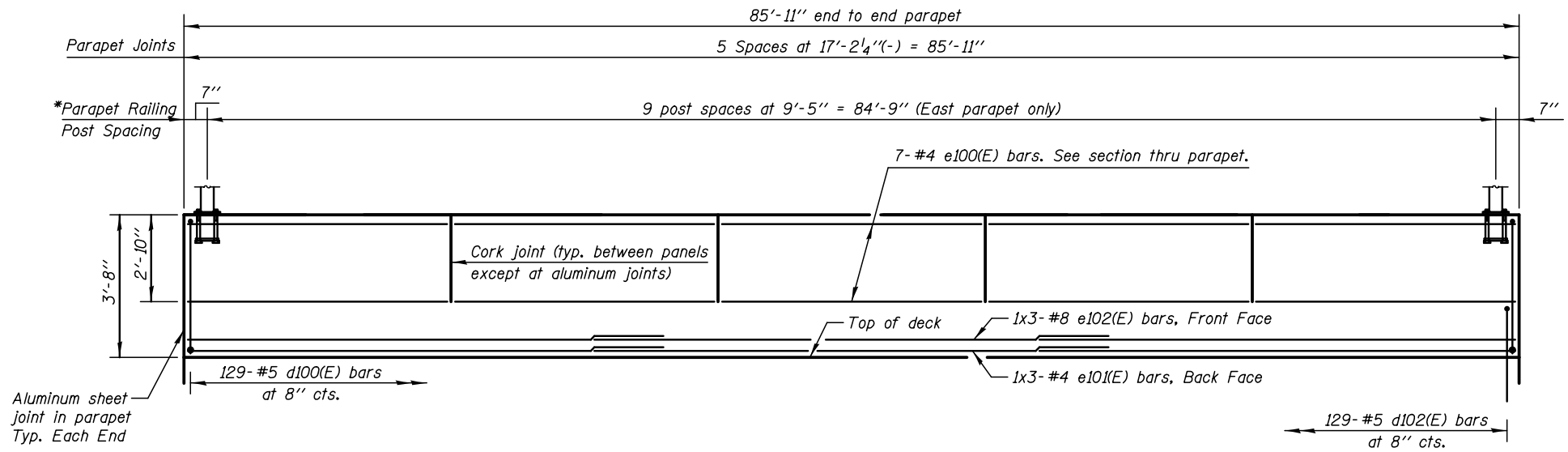
SHEET NO. S-09 OF 24 SHEETS

F.A./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105X-B	MCHENRY	223	115
CONTRACT NO. 62A80				
ILLINOIS FED. AID PROJECT				

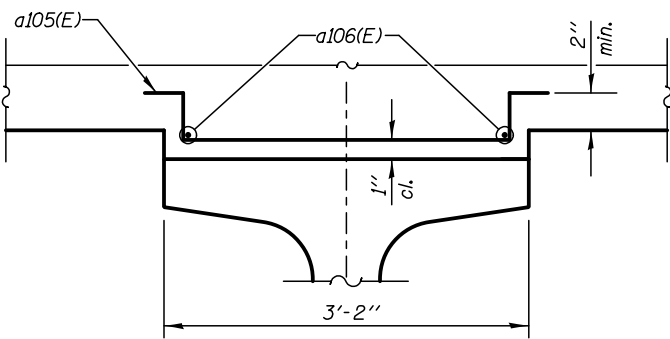
Notes:
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.

The 1/8" Aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.

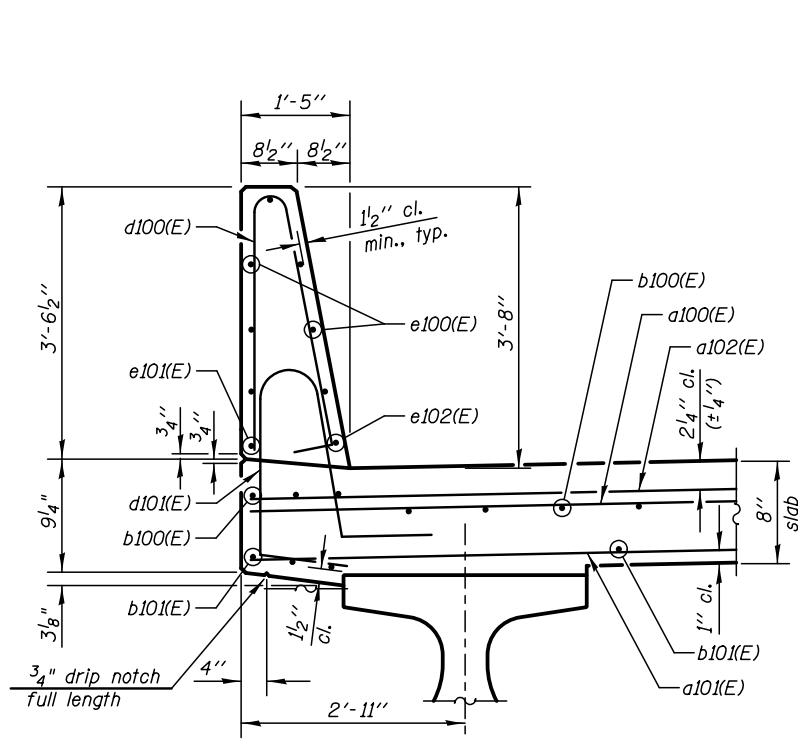
For details of parapet railing, see Sheet S-15 of 24.



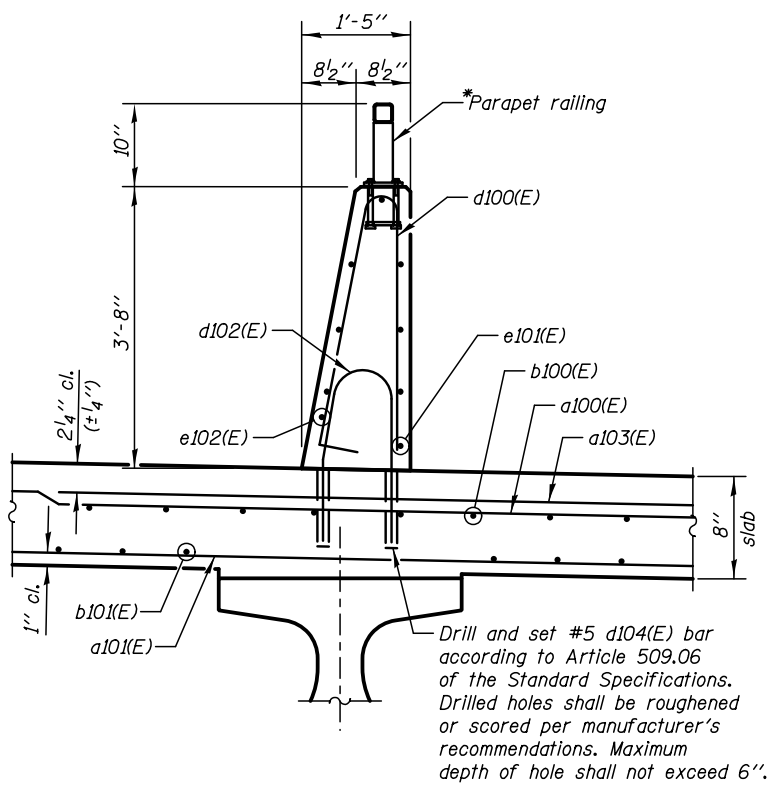
INSIDE ELEVATION OF EAST PARAPET
(Inside Elevation of West Parapet Similar)



**TOP OF BEAM
FILLET REINFORCEMENT**



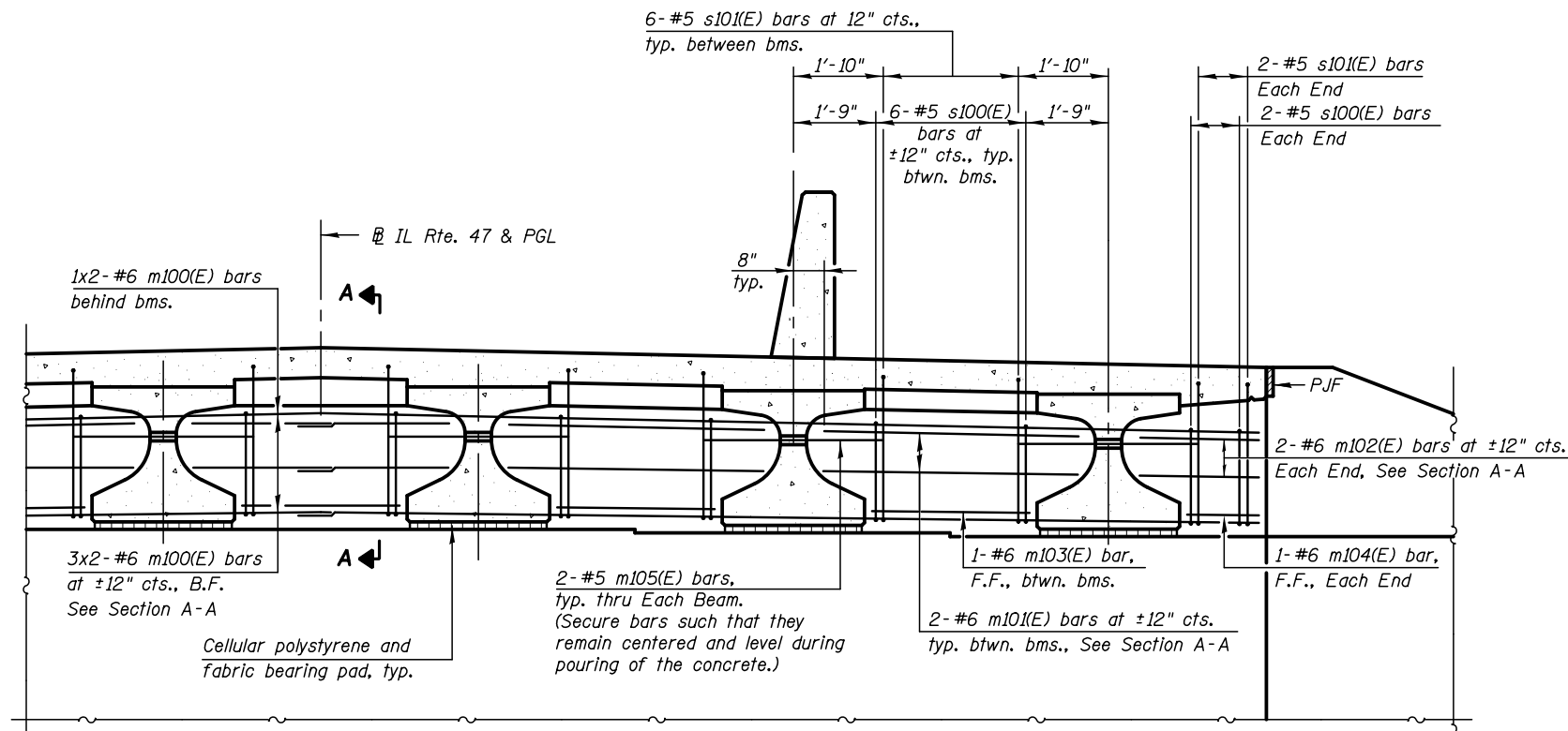
SECTION THRU WEST PARAPET



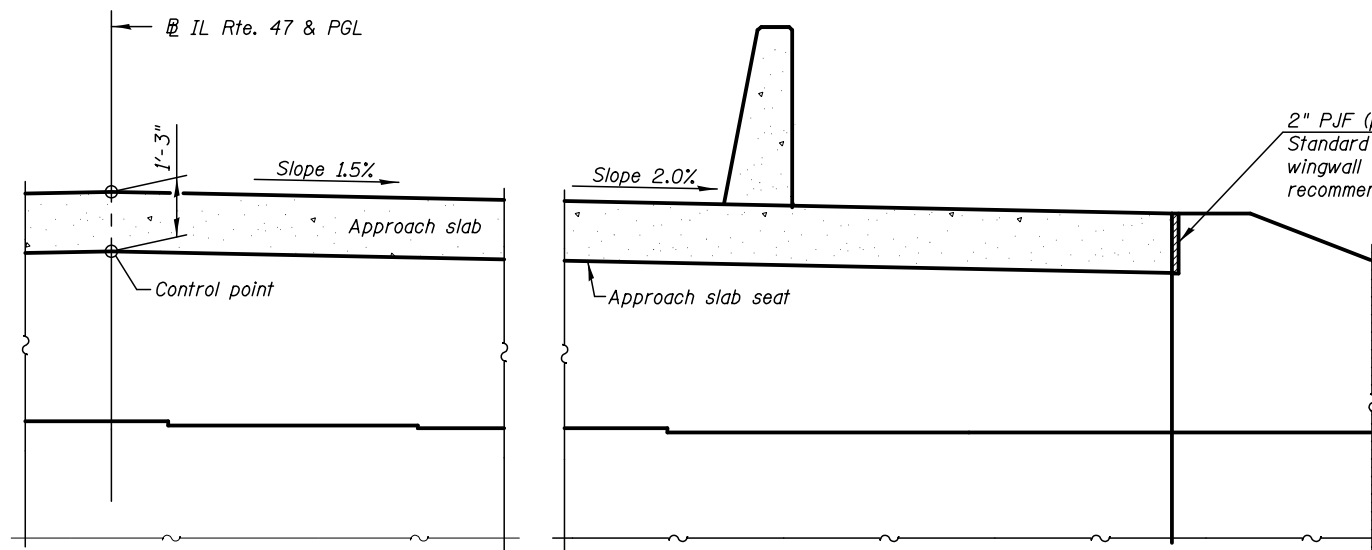
SECTION THRU EAST PARAPET
*Bicycle Railing post spacing at East fascia to match that for Parapet Railing

MIN. BAR LAPS:
(Parapet)
#4 bar = 2'-5"
#8 bar = 5'-11"

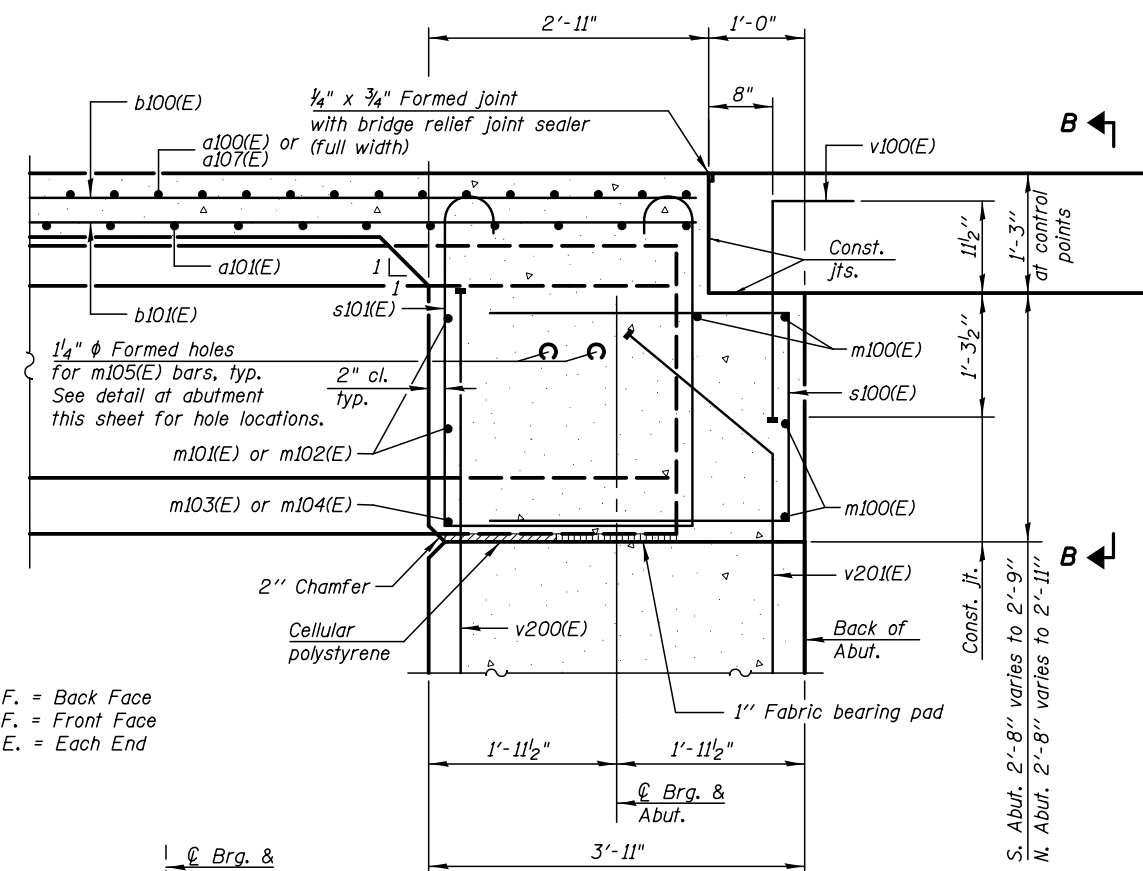
PLOT DATE = 10/2/2020



DIAPHRAGM AT ABUTMENT
(Railings not shown for clarity)

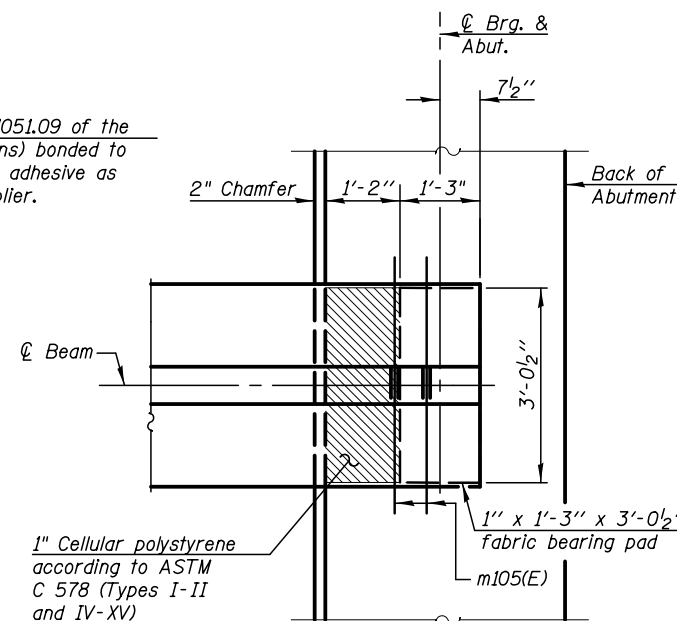


SECTION B-B
(Railings not shown for clarity)



SECTION A-A

MIN. BAR LAP
#6 = 4'-0"



DETAIL AT ABUTMENT
(Showing bottom flange of beam)

Notes:

Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.

Reinforcement bars in diaphragm are billed with superstructure on sheet S-12.

Concrete in diaphragm is included with Concrete Superstructure on sheet S-12.

For details of bars s100(E), s101(E) and v100(E) see sheet S-12.

The approach slab seat shall have a constant slope determined from the control points shown.

Cost of cellular polystyrene is included with Concrete Superstructure.

Beams shall be braced for stability during erection and remain braced until deck is poured and cured.

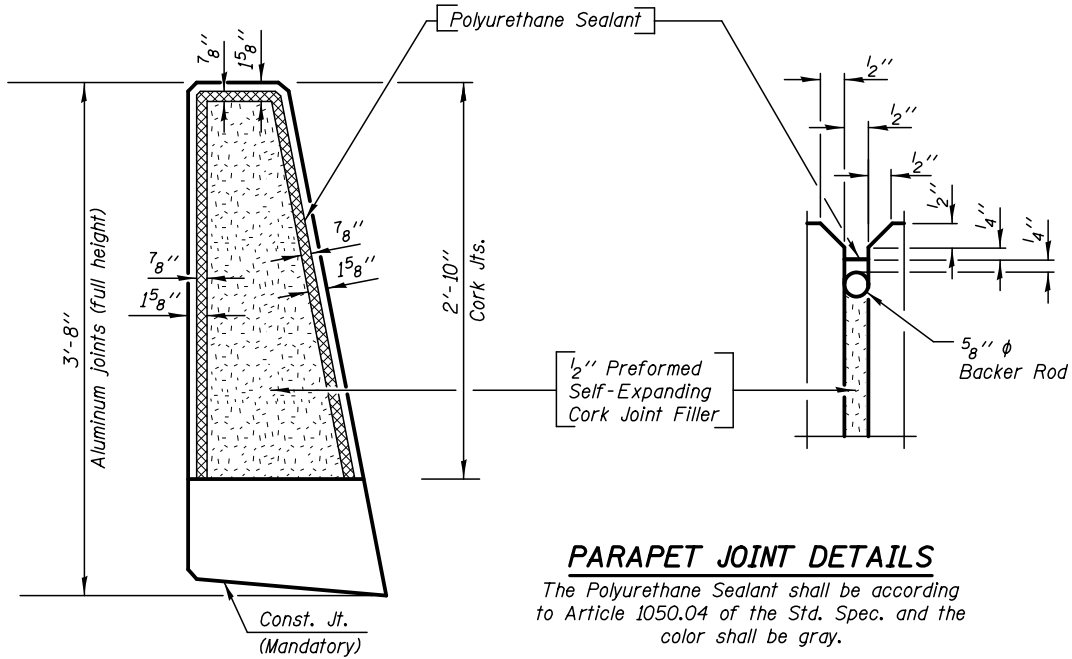
Cost of PJF is included with Concrete Superstructure.

PLOT DATE = 7/29/2020

KNIGHT Engineers & Architects		DESIGNED - JW	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DIAPHRAGM DETAILS STRUCTURE NUMBER 056-0316	F.A./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - FW	REVISED			326	105X-B	MCHENRY	223	117
	SCALE - NONE	DRAWN - BK	REVISED			CONTRACT NO. 62A80				
	DATE - 7/27/2020	CHECKED - FW	REVISED			SHEET NO. S-11 OF 24 SHEETS				
						ILLINOIS FED. AID PROJECT				

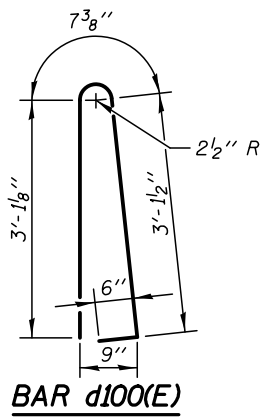
BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
a100(E)	187	5	27'-2"	
a101(E)	387	5	22'-2"	
a102(E)	187	6	6'-6"	
a103(E)	187	6	15'-11"	
a104(E)	129	6	1'-6"	
a105(E)	294	4	4'-10"	
a106(E)	28	4	21'-6"	
a107(E)	187	5	34'-7"	
b100(E)	186	5	30'-10"	
b101(E)	240	5	24'-1"	
d100(E)	258	5	7'-4"	
d101(E)	129	5	7'-3"	
d102(E)	129	5	4'-11"	
e100(E)	70	4	16'-10"	
e101(E)	6	4	30'-2"	
e102(E)	6	8	32'-6"	
m100(E)	16	6	31'-9"	
m101(E)	24	6	7'-8"	
m102(E)	8	6	2'-0"	
m103(E)	12	6	5'-6"	
m104(E)	4	6	1'-0"	
m105(E)	28	5	4'-0"	
s100(E)	80	5	9'-0"	
s101(E)	80	5	10'-1"	
v100(E)	120	5	3'-1"	
Reinforcement Bars, Epoxy Coated			Pound	49,240
Concrete Superstructures			Cu. Yd	209.2
Bridge Deck Grooving			Sq. Yd	421
Protective Coat			Sq. Yd	664

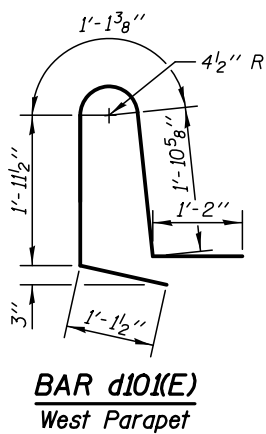


PARAPET JOINT DETAILS

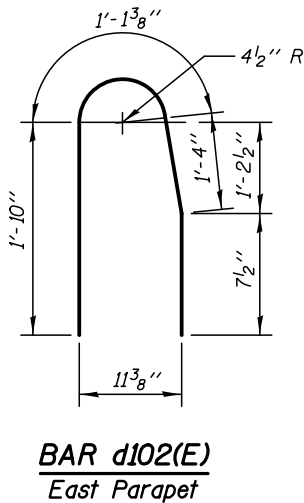
The Polyurethane Sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.



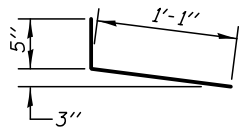
BAR d100(E)



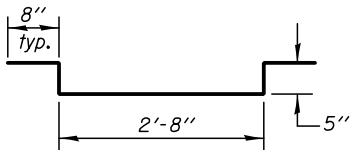
BAR d101(E)
West Parapet



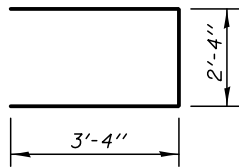
BAR d102(E)
East Parapet



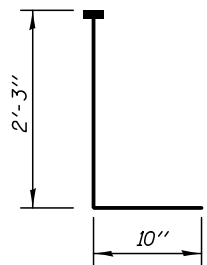
BAR a104(E)



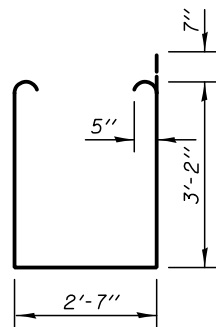
BAR a105(E)



BAR s100(E)



BAR v100(E)
(Headed)



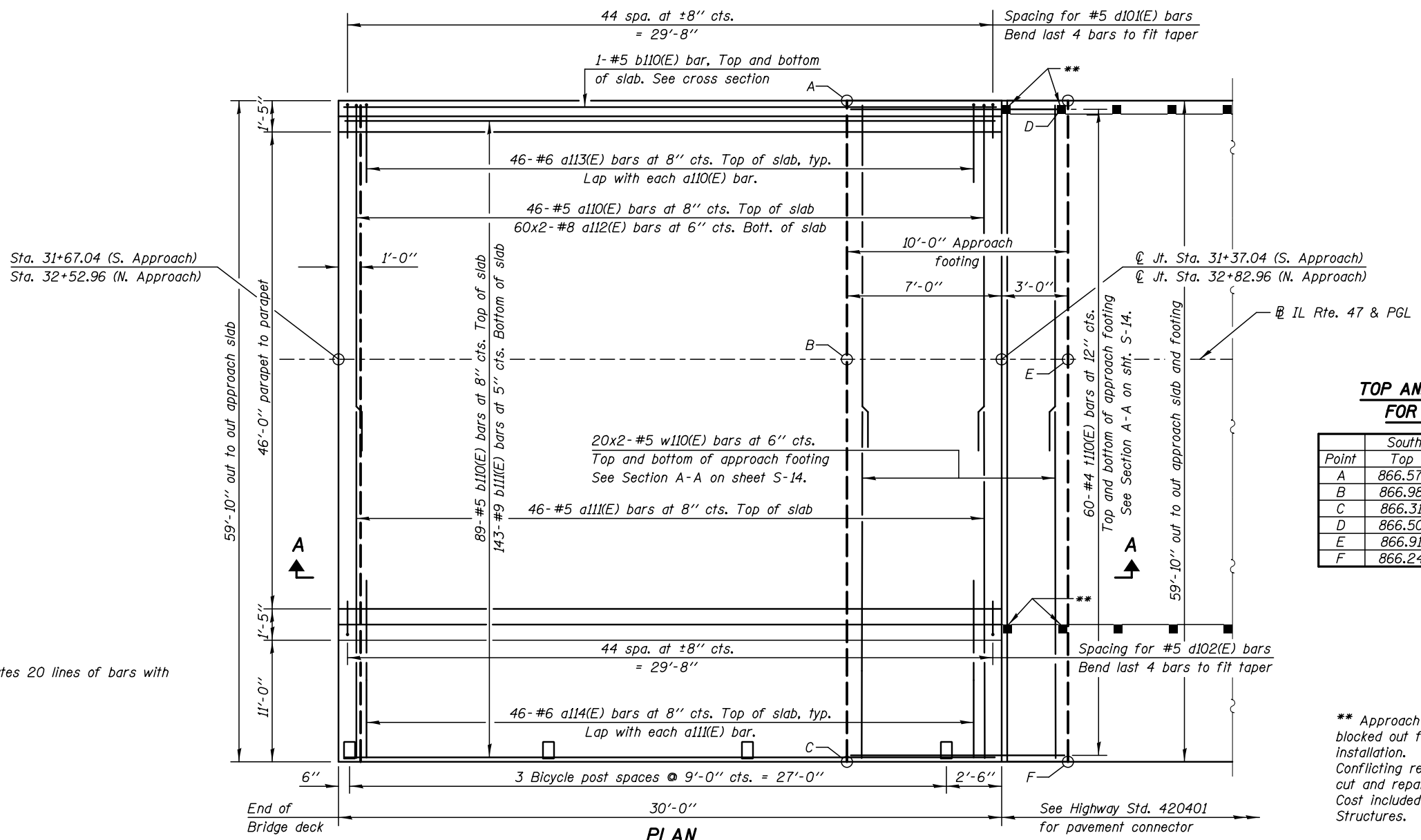
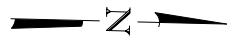
BAR s101(E)

Notes:

Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost Included with Reinforcement Bars, Epoxy Coated.

PLOT DATE = 10/8/2020

PLOT DATE	KNIGHT Engineers & Architects		DESIGNED - JW	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE DETAILS STRUCTURE NUMBER 056-0316	F.A.I/P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			CHECKED - FW	REVISED			326	105X-B	MCHENRY	223	118
		SCALE - NONE	DRAWN - BK	REVISED			CONTRACT NO. 62A80				
		DATE - 7/27/2020	CHECKED - FW	REVISED			SHEET NO. S-12 OF 24 SHEETS				
								ILLINOIS FED. AID PROJECT			



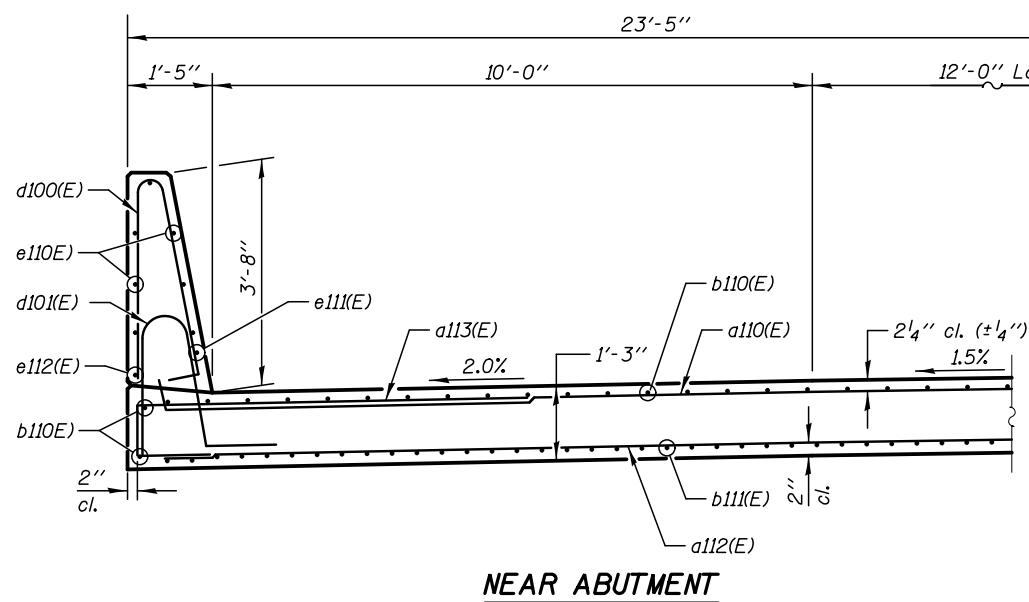
TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING				
Point	South Approach		North Approach	
	Top	Bottom	Top	Bottom
A	866.57	865.73	868.67	867.84
B	866.98	866.14	869.08	868.25
C	866.31	865.47	868.41	867.58
D	866.50	865.67	868.74	867.91
E	866.91	866.08	869.15	868.31
F	866.24	865.41	868.48	867.65

MIN. BAR LAP
#5 = 3'-6"
#8 = 4'-9"

** Approach footing to be blocked out for guardrail post installation.
Conflicting reinforcement to be out and repaired.
Cost included in Concrete Structures.

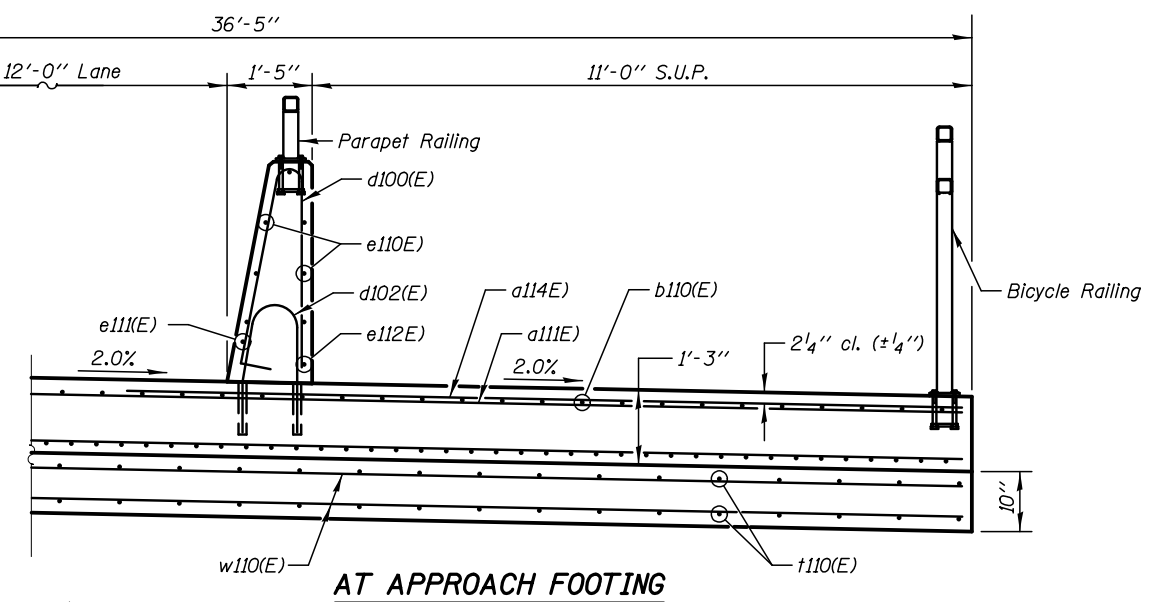
Notes:
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.

PLAN
(N. Approach Slab shown, S. Approach Slab similar)



CROSS SECTION
(Looking North)

(Sheet 1 of 2)

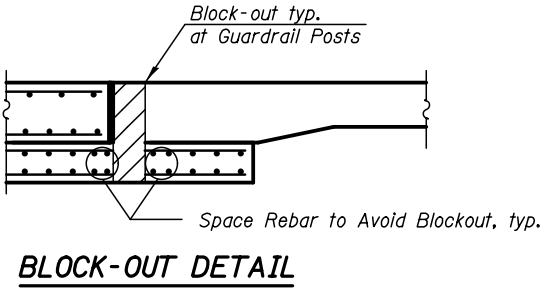
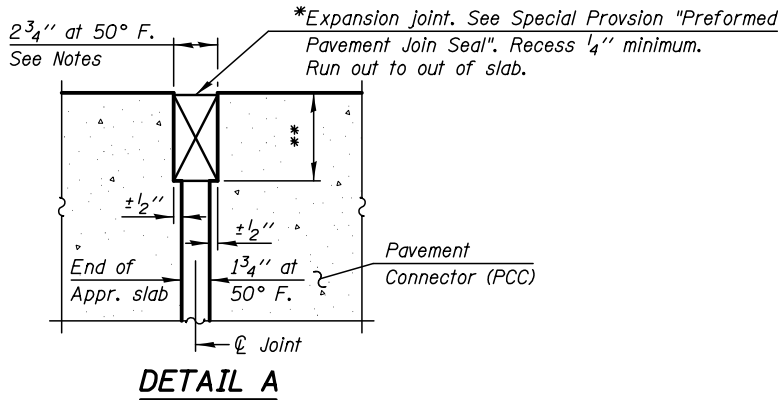
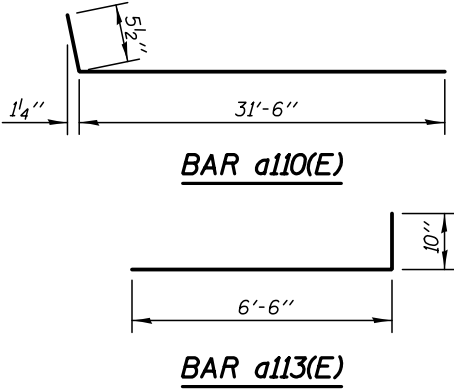
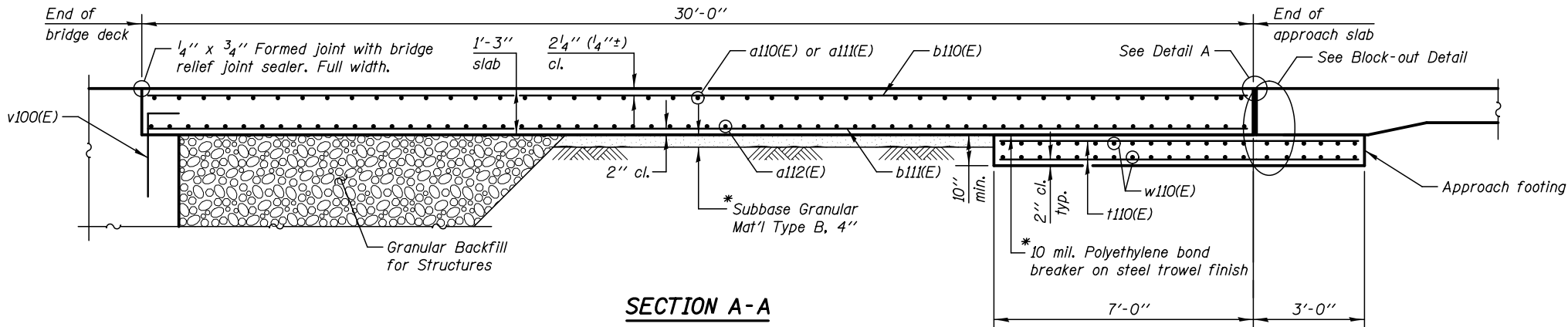
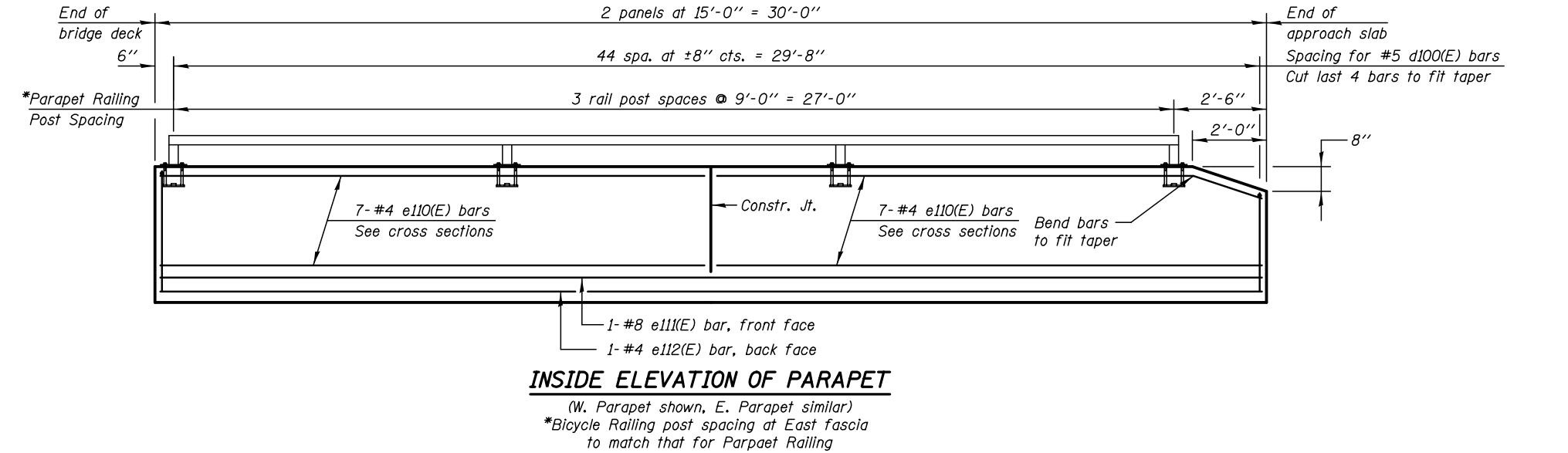


AT APPROACH FOOTING

PLOT DATE = 7/29/2020

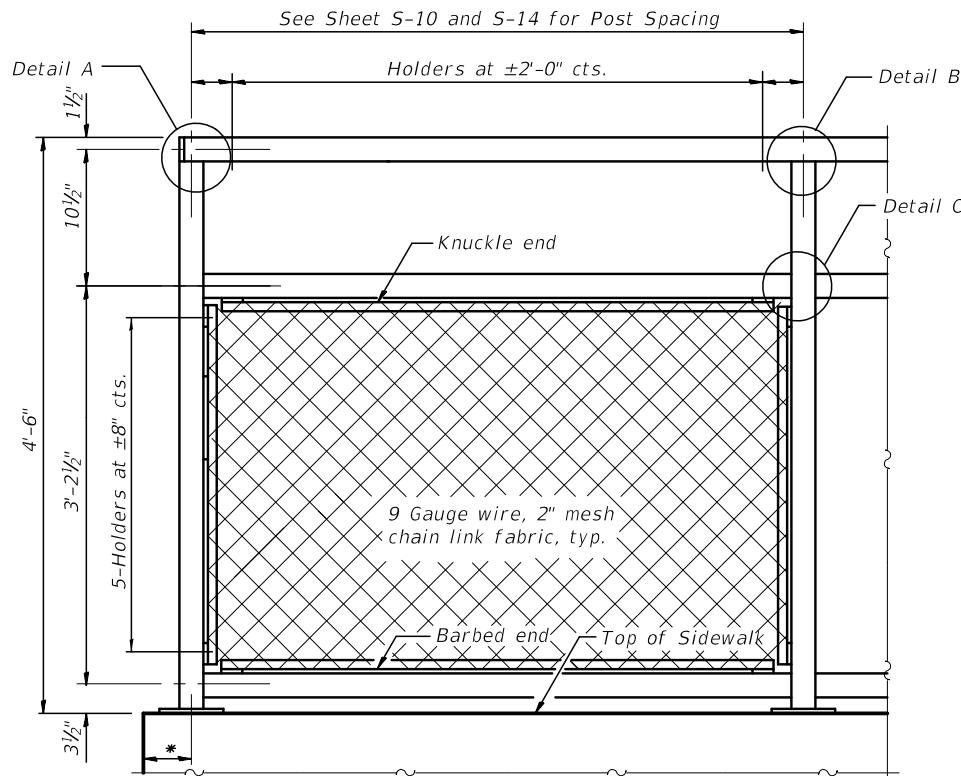
BILL OF MATERIAL
NORTH & SOUTH APPROACH SLAB

BAR	NO.	SIZE	LENGTH	SHAPE
a110(E)	92	5	32'-0"	┐
a111(E)	92	5	31'-6"	┐
a112(E)	240	8	32'-2"	┐
a113(E)	92	6	7'-4"	┐
a114(E)	92	6	16'-0"	┐
b110(E)	182	5	29'-8"	┐
b111(E)	286	9	29'-8"	┐
d100(E)	180	5	7'-4"	┐
d101(E)	90	5	7'-3"	┐
d102(E)	90	5	4'-11"	┐
e110(E)	56	4	14'-8"	┐
e111(E)	4	8	29'-8"	┐
e112(E)	4	4	29'-8"	┐
t110(E)	240	4	9'-8"	┐
w110(E)	160	5	31'-6"	┐
Reinforcement Bars, Epoxy Coated			LB	74,680
Concrete Structures			Cu. Yd.	37
Concrete Superstructure			Cu. Yd.	17.0
Concrete Superstructure (Approach Slab)			Cu. Yd.	166.4
Bridge Deck Grooving			Sq. Yd.	294
Protective Coat			Sq. Yd.	464



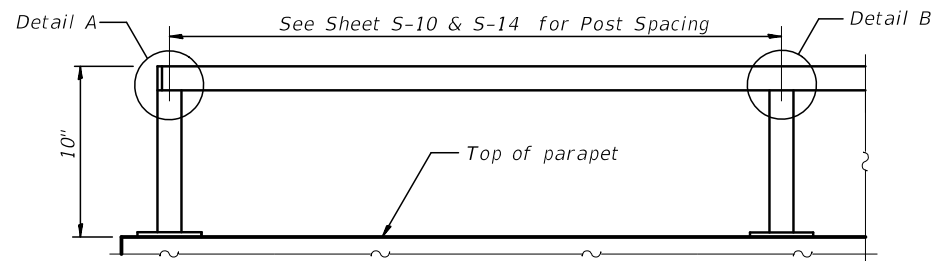
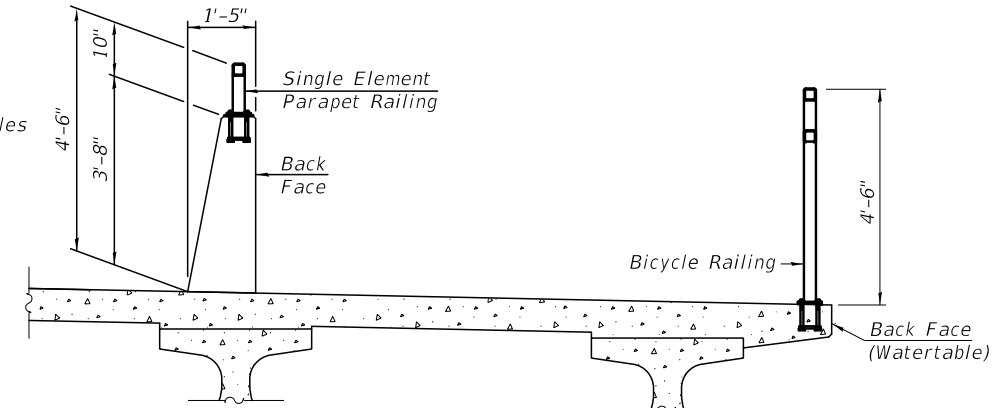
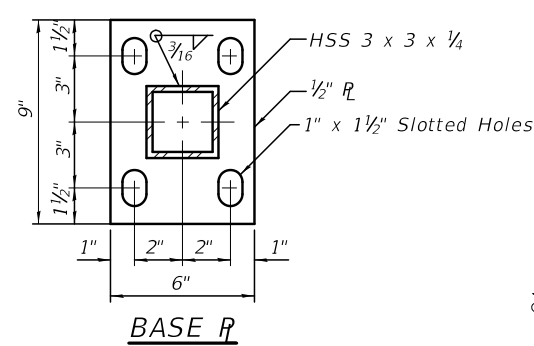
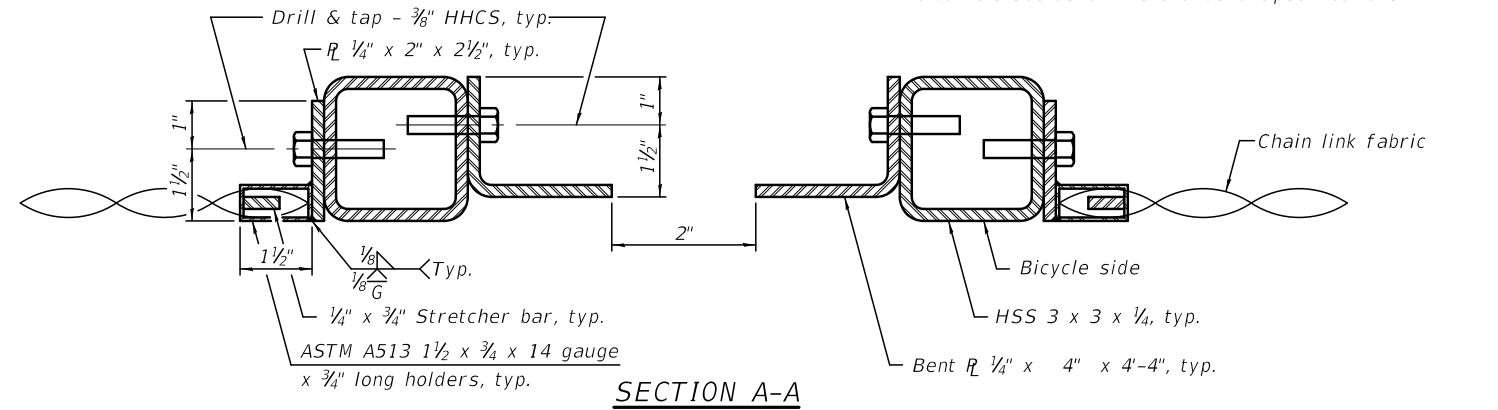
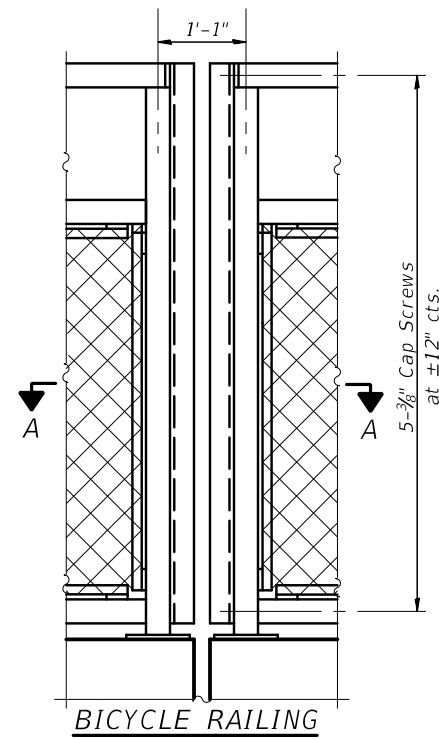
Notes:
Bars Indicated thus 20 x 3 - #5 etc. indicates 20 lines of bars with 3 lengths per line.
The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.
Parapet concrete shall be paid for as Concrete Superstructure.
Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
Approach footing concrete shall be paid for as Concrete Structures.
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
Cost of excavation for approach footing included with Concrete Structures.
For Granular Backfill for Structures and drainage treatment details, see sheet S-02.

For details of Bars d100(E) thru d102(E), see sheet S-12.

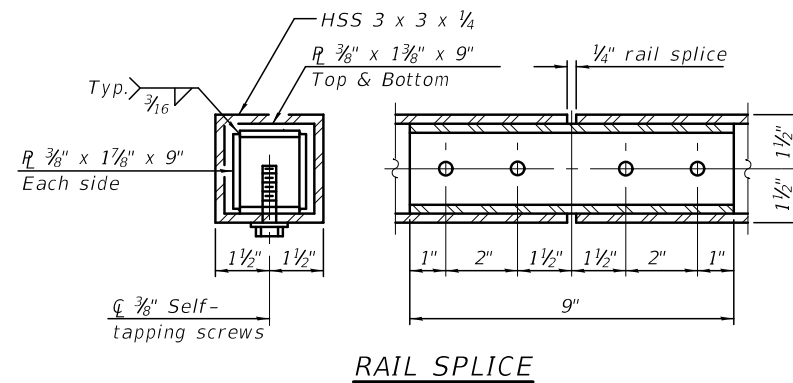
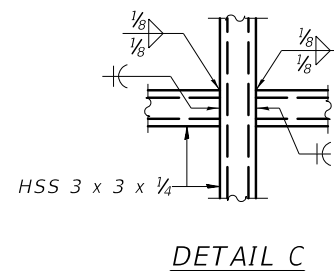
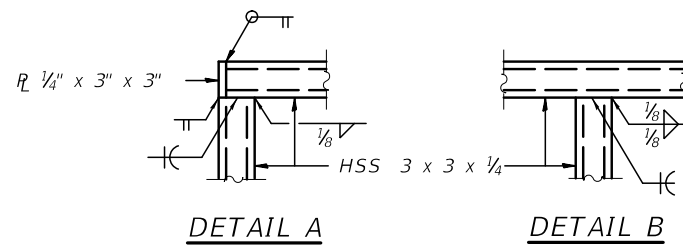
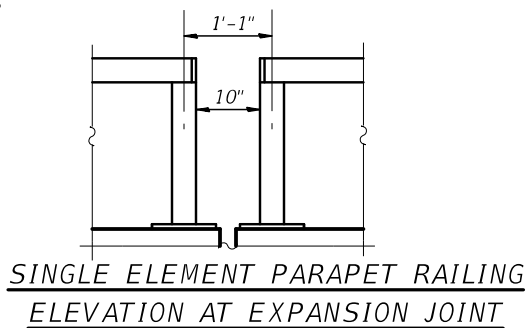


* See Sht S-09 and S-13 for dimensions

BICYCLE RAILING



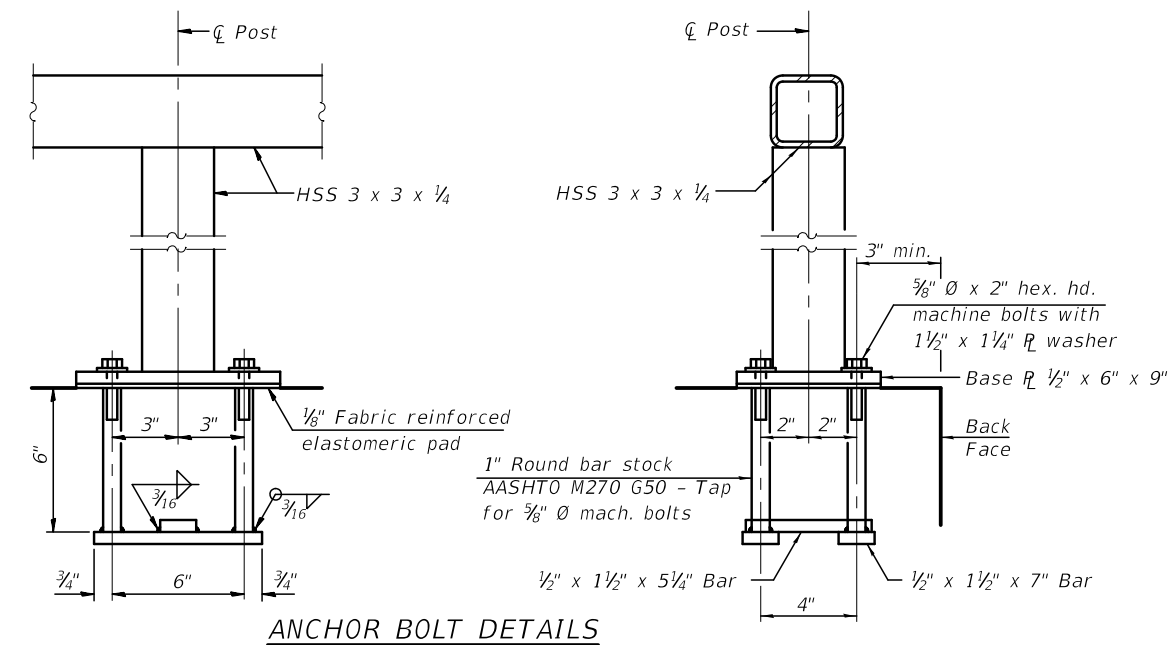
SINGLE ELEMENT PARAPET RAILING ELEVATION
(Inside Face of Single Element Rail)



Notes:

All structural steel tubing, post and railing, for parapet railing shall be CVN tested according to 1006.34(b) of the Standard Specifications.

CVN testing may be omitted for the Bicycle Railing.



In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" $\emptyset$ anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

BILL OF MATERIAL

Item	Unit	Quantity
Bicycle Railing	Foot	139
Parapet Railing	Foot	139

PLOT DATE = 7/25/2020

KNIGHT
Engineers & Architects

DESIGNED - JW
CHECKED - FW
SCALE - NONE
DATE - 7/27/2020

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REVIS

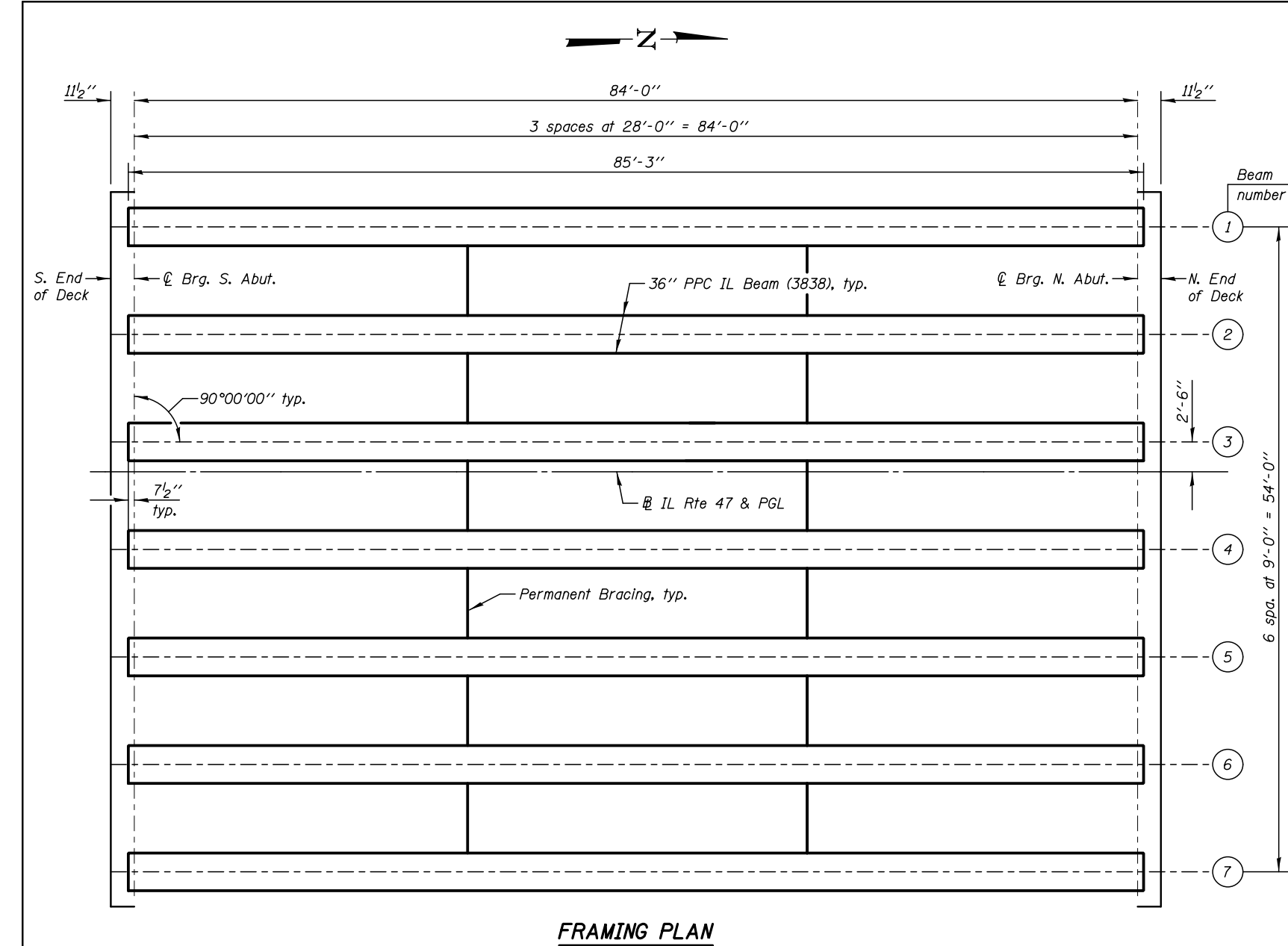
DESIGNED - JW
CHECKED - FW
DRAWN - BK
CHECKED - FW

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

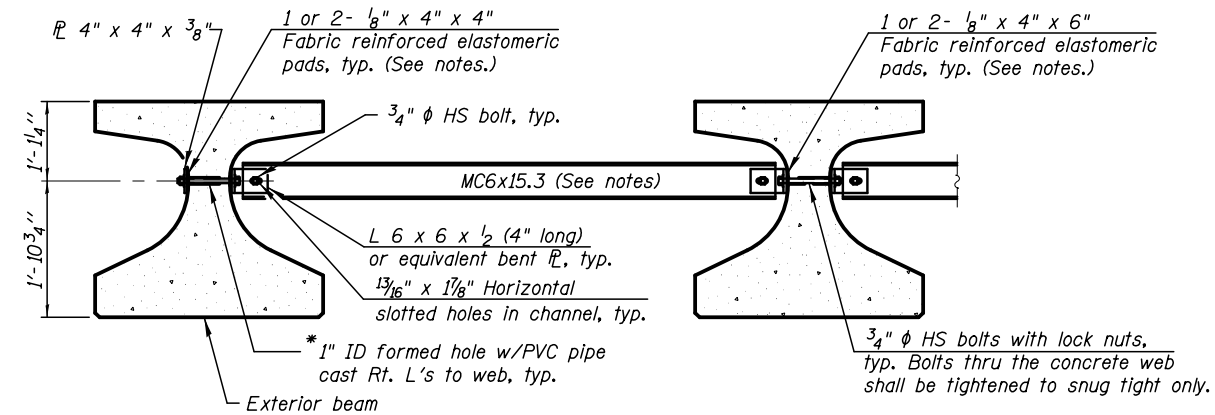
**RAILING DETAILS
STRUCTURE NUMBER 056-0316**

SHEET NO. S-15 OF 24 SHEETS

F.A./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105X-B	MCHENRY	223	121
CONTRACT NO. 62A80				
ILLINOIS FED. AID PROJECT				



FRAMING PLAN



Notes:
All material for bracing shall be hot dip galvanized according to AASHTO M111 unless otherwise noted.
Two hardened washers are required for each set of oversized holes.
All holes shall be 15/16" ϕ unless otherwise noted.
5/16" x 3" x 3" plate washers are required over all slotted holes.
All bolts, threaded rods, and hardware shall be galvanized according to AASHTO M232.
Threaded rods shall be ASTM F 1554 Grade 55.

Bracing shall be installed as beams are erected and tightened as soon as possible during erection.
Permanent bracing shall not be paid for separately, but shall be included in the cost of Furnishing and Erecting Precast Prestressed Concrete Beams.
Alternate MC6X18 channels are permitted to facilitate material acquisition.
Place pads as necessary to provide a flat mounting surface between the steel and concrete.

PERMANENT BRACING DETAILS FOR
IL36 BEAMS

I : Non-composite moment of inertia of beam section (in^4).
 I' : Composite moment of inertia of beam section (in^4).
 S_b : Non-composite section modulus for the bottom fiber of the prestressed beam (in^3).
 S_b' : Composite section modulus for the bottom fiber of the prestressed beam (in^3).
 S_t : Non-composite section modulus for the top fiber of the prestressed beam (in^3).
 S_t' : Composite section modulus for the top fiber of the prestressed beam (in^3).
 $DC1$: Un-factored non-composite dead load (kips/ft.).
 M_{DC1} : Un-factored moment due to non-composite dead load (kips-ft.).
 $DC2$: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
 M_{DC2} : Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kips-ft.).

DW : Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
 M_{DW} : Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kips-ft.).
 $M_L + IM$: Un-factored live load moment plus dynamic load allowance (impact) (kips-ft.).
 $LLDF$: Live Load Distribution Factor
 OCF : Obtuse Correction Factor
 R_{DC1} : Un-factored Reaction Composite Dead Load
 R_{DC2} : Un-factored Reaction Non-Composite Dead Load
 R_{DW} : Un-factored Reaction Future Wearing Surface
 R_L : Un-factored Reaction Live Load
 R_{IM} : Un-factored Dynamic Live Load Allowance
 R_{Total} : Un-factored Total Reaction

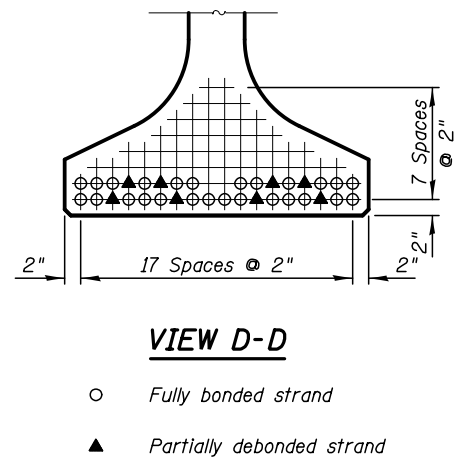
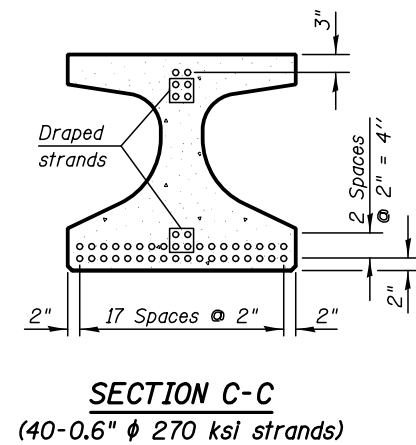
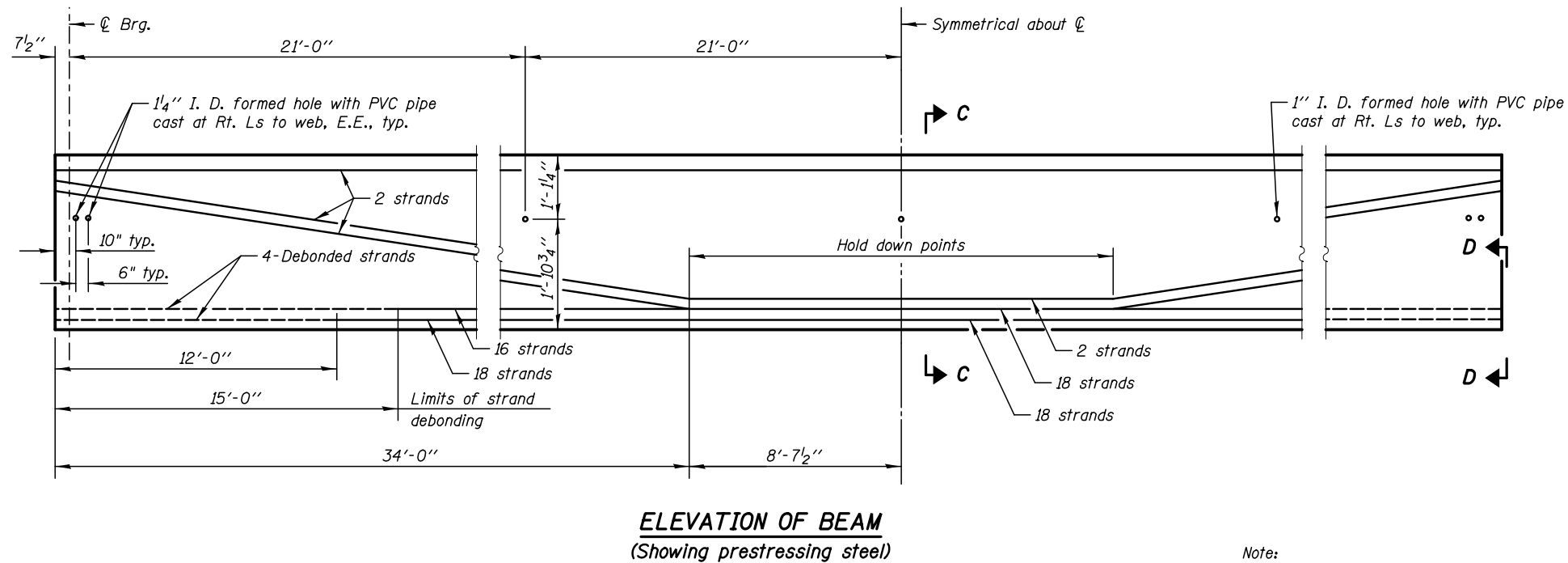
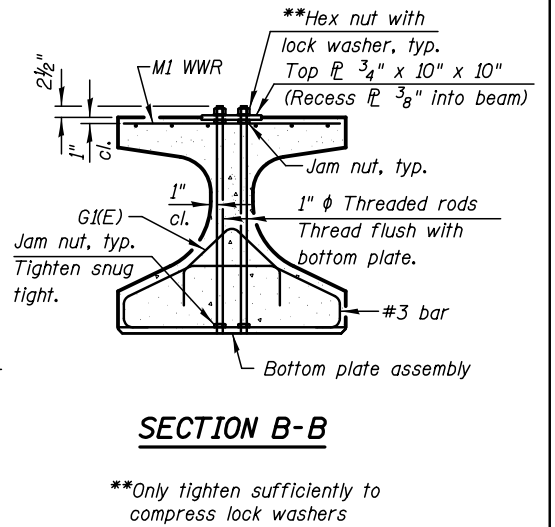
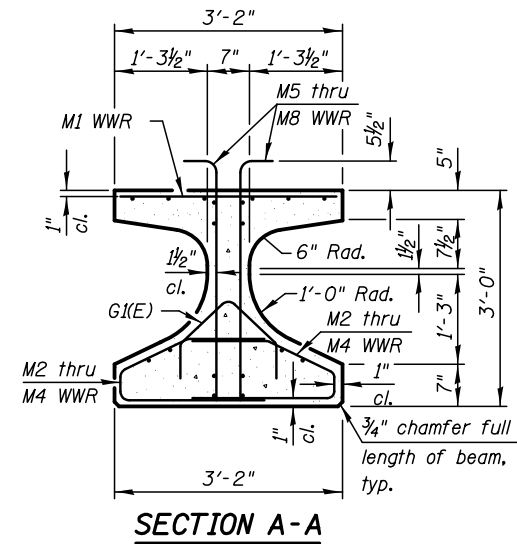
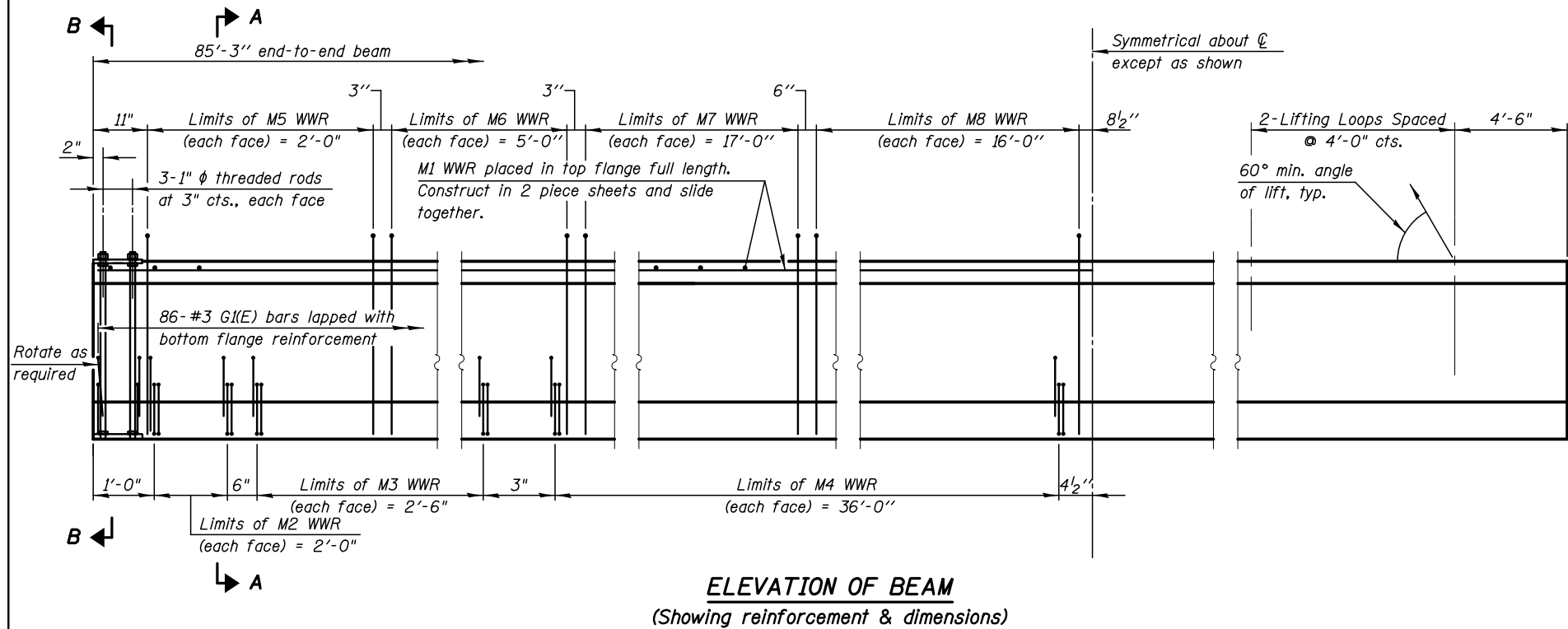
INTERIOR BEAM MOMENT TABLE		
		0.5 Span
I	(in^4)	124,639
I'	(in^4)	316,678
S_b	(in^3)	7,563
S_b'	(in^3)	11,973
S_t	(in^3)	6,385
S_t'	(in^3)	33,163
$DC1$	(k/ft)	1.799
M_{DC1}	($'k$)	1,587
$DC2$	(k/ft)	0.163
M_{DC2}	($'k$)	144
DW	($'k$)	0.450
M_{DW}	($'k$)	397
$LLDF$		0.716
$M_L + IM$	($'k$)	1,578

GIRDER REACTION TABLE		
	Abut.	
	Interior	Exterior
$LLDF$	0.884	0.663
OCF	-	1.00
R_{DC1}	(k) 75.6	66.4
R_{DC2}	(k) 6.8	6.8
R_{DW}	(k) 18.9	18.9
R_L^{**}	(k) 80.3	60.2
R_{IM}^{**}	(k) 18.8	14.1
R_{Total}^{**}	(k) 200.4	166.5

**Includes LLDF

PLOT DATE = 7/29/2020

PLOT DATE = 7/29/2020



Note:
See sheet S-18 of 24 for additional details and Bill of Material.
Required release strength:
 f'_c = 8,500 psi
 f'_{ci} = 7,000 psi

KNIGHT

Engineers & Architects

SCALE - NONE
DATE - 7/27/2020

DESIGNED - JW
CHECKED - FW
DRAWN - BK
CHECKED - FW

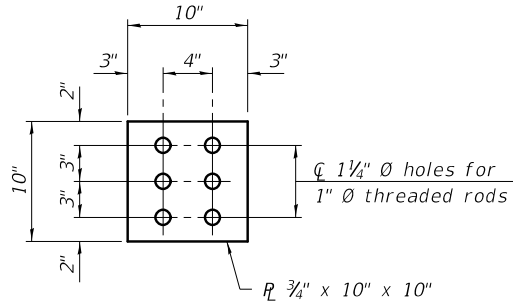
REVISED
REVISED
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REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

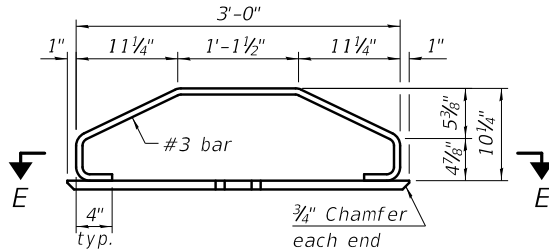
36" PPC IL BEAM
STRUCTURE NUMBER 056-0316

SHEET NO. S-17 OF 24 SHEETS

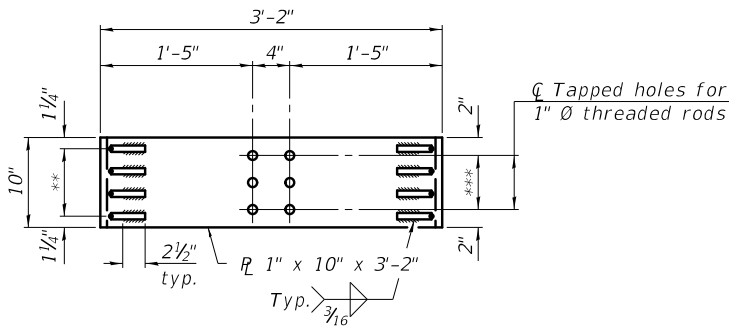
F.A./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105X-B	MCHENRY	223	123
CONTRACT NO. 62A80				
ILLINOIS FED. AID PROJECT				



PLAN - TOP PLATE



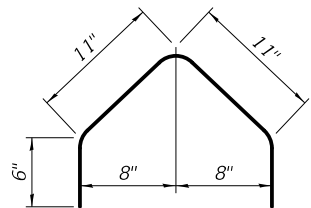
ELEVATION - BOTTOM PLATE ASSEMBLY



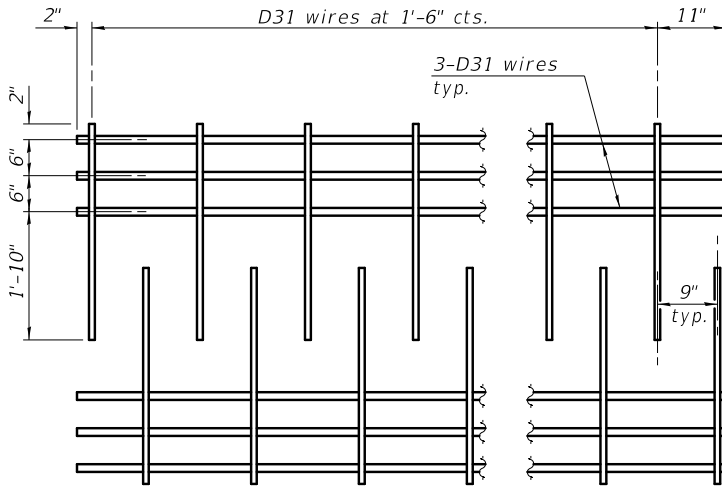
SECTION E-E

** 3 Spaces at 2 1/2" = 7 1/2"

*** 2 Spaces at 3" = 6"

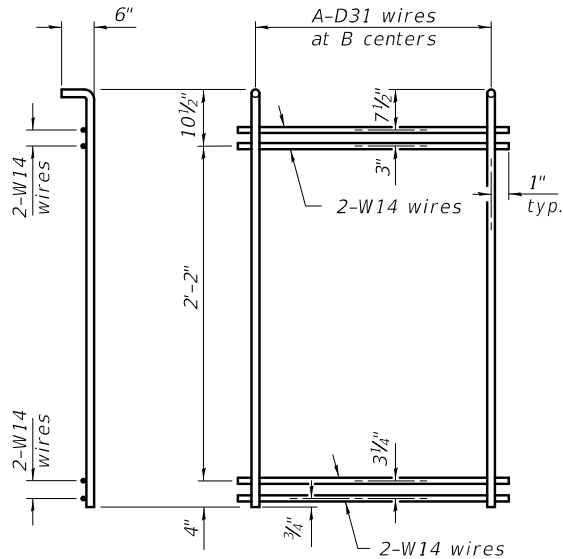


BAR G1(E)



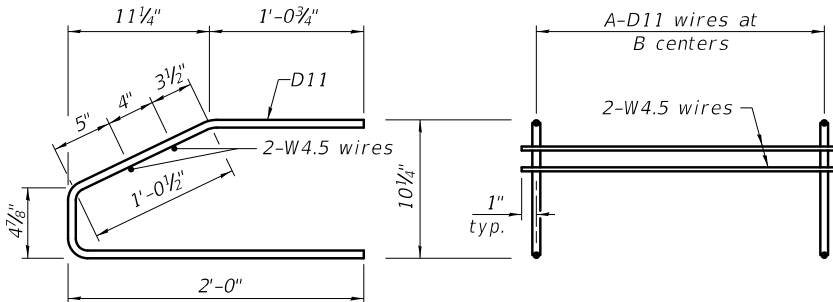
M1 WWR DETAIL

When multiple sheets of M1 WWR are required along the beam length, #5(E) bars (5'-0" long) shall be used to splice the longitudinal D31 wires together (Min. Lap 2'-2").



M5 THRU M8 WWR DETAIL

(See Table of Dimensions)

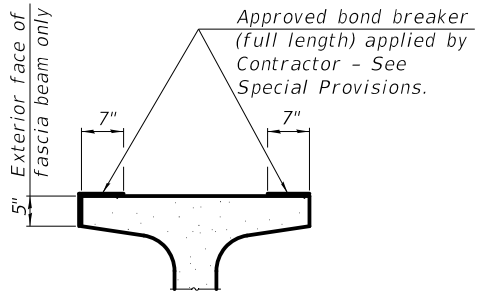


M2 THRU M4 WWR DETAIL

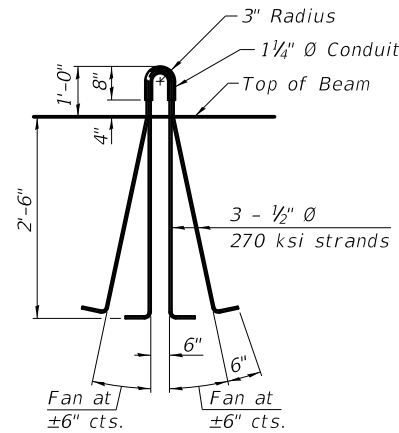
(See Table of Dimensions)

TABLE OF DIMENSIONS

WWR	SPAN	
	A	B
M2	9	3"
M3	6	6"
M4	25	1'-6"
M5	9	3"
M6	11	6"
M7	18	1'-0"
M8	9	2'-0"



SECTION THRU TOP FLANGE



LIFTING LOOP DETAIL

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete Beams, IL36	Ft.	597.0

IL36-3838D

2-25-2019

KNIGHT

Engineers & Architects

DESIGNED - JW	REVISED
CHECKED - FW	REVISED
DRAWN - BK	REVISED
CHECKED - FW	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

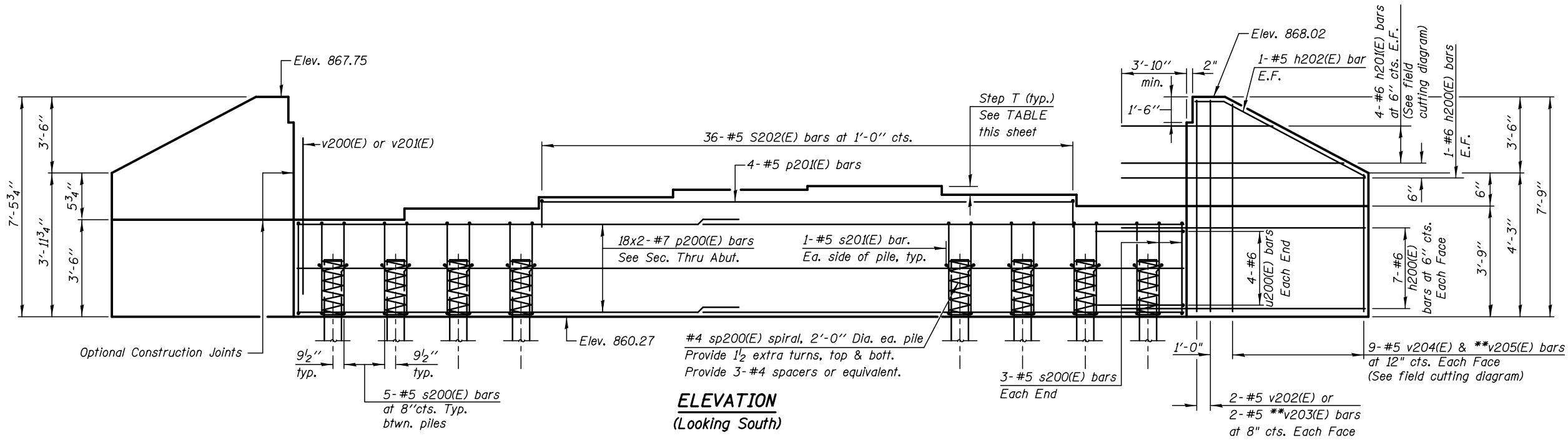
36" PPC IL BEAM DETAILS
STRUCTURE NUMBER 056-0316

SHEET NO. S-18 OF 24 SHEETS

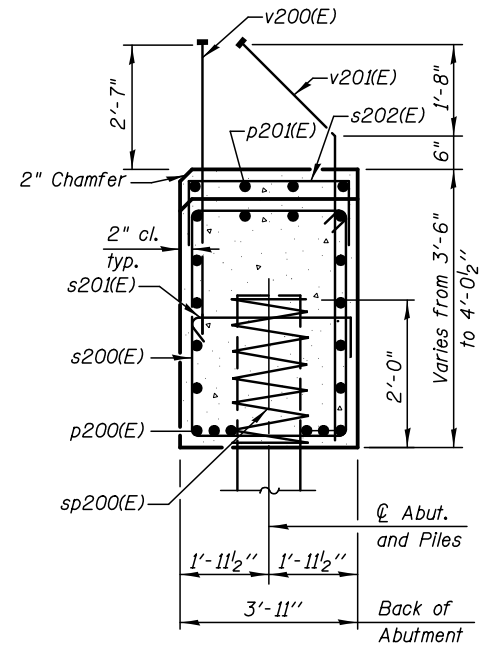
F.A./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105X-B	MCHENRY	223	124
CONTRACT NO. 62A80				
ILLINOIS FED. AID PROJECT				

PLOT DATE = 10/2/2020

PLOT DATE = 10/2/2020



ELEVATION
(Looking South)



SEC. THRU ABUT.

BEARING SEAT ELEVATIONS

BEAM	BRG. SEAT ELEVATION	STEP T-Inch
1	864.02	2 1/4
2	864.21	1 1/2
3	864.34	3/4
4	864.28	1 7/8
5	864.13	2 1/8
6	863.95	2 1/8
7	863.77	

Notes:

Pour steps monolithically with cap.

Bars indicated thus 20x3-#5 indicates 20 lines of bars with 3 lengths per line.

See Sheet S-21 for additional details, Field Cutting Diagram and Bill of Material.

** Designates East Wingwall Reinforcement

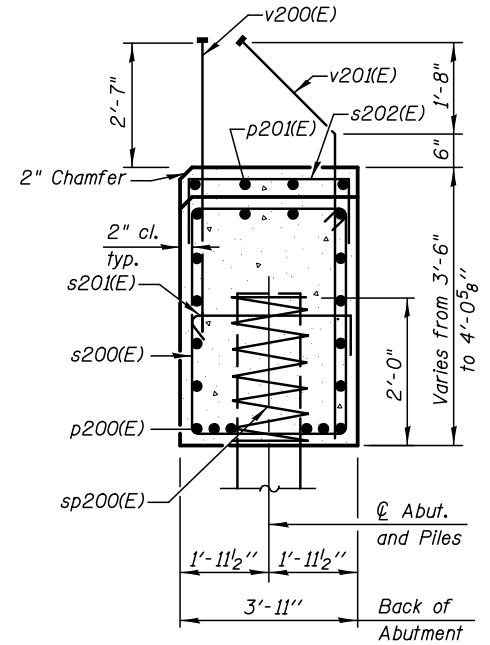
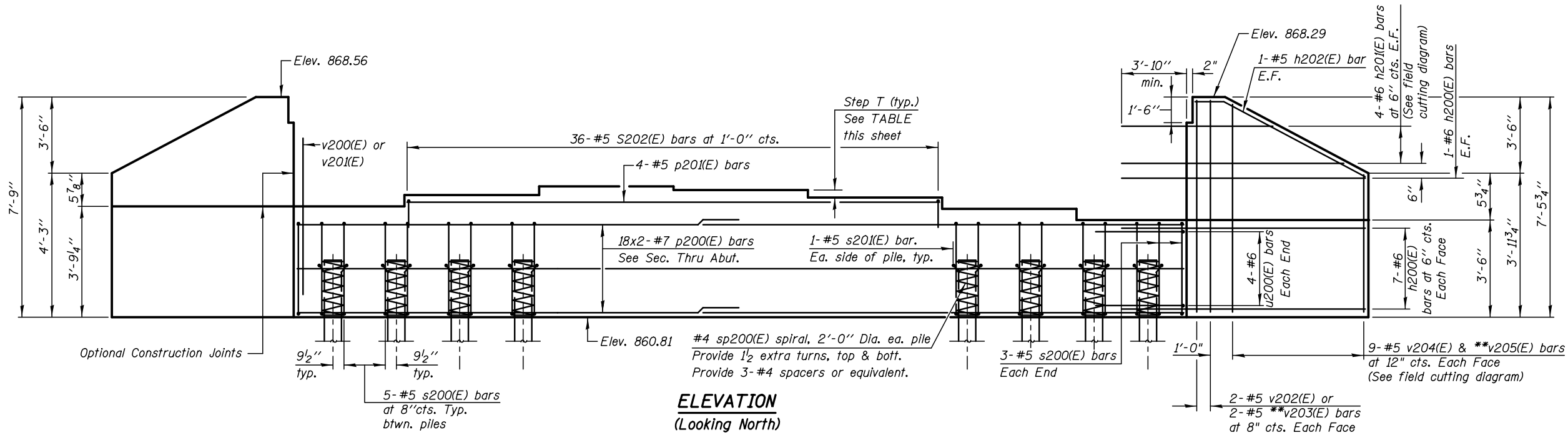
PILE DATA

Type: Metal Shell Pile 14" ϕ x 0.25" Wall
Nominal Required Bearing: 364 Kips
Factored Resistance Available: 200 Kips
Est. Length: 44 ft
No. Production Piles: 13
No. Test Piles: 1

MIN. BAR LAP

#7 - 5'-0"

KNIGHT Engineers & Architects		DESIGNED - JW	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOUTH ABUTMENT STRUCTURE NUMBER 056-0316	F.A./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - FW	REVISED			326	105X-B	MCHENRY	223	125
	SCALE - NONE	DRAWN - BK	REVISED			CONTRACT NO. 62A80				
	DATE - 7/27/2020	CHECKED - FW	REVISED			ILLINOIS FED. AID PROJECT				
	SHEET NO. S-19 OF 24 SHEETS									



BEARING SEAT ELEVATIONS

BEAM	BRG. SEAT ELEVATION	STEP T-Inch
1	864.58	2
2	864.75	1 5/8
3	864.89	3/4
4	864.83	1 3/4
5	864.68	2 1/8
6	864.50	2 1/4
7	864.31	

Notes:

Pour steps monolithically with cap.

Bars indicated thus 20x3-#5 indicates 20 lines of bars with 3 lengths per line.

See Sheet S-21 for additional details, Field Cutting Diagram and Bill of Material.

** Designates East Wingwall Reinforcement

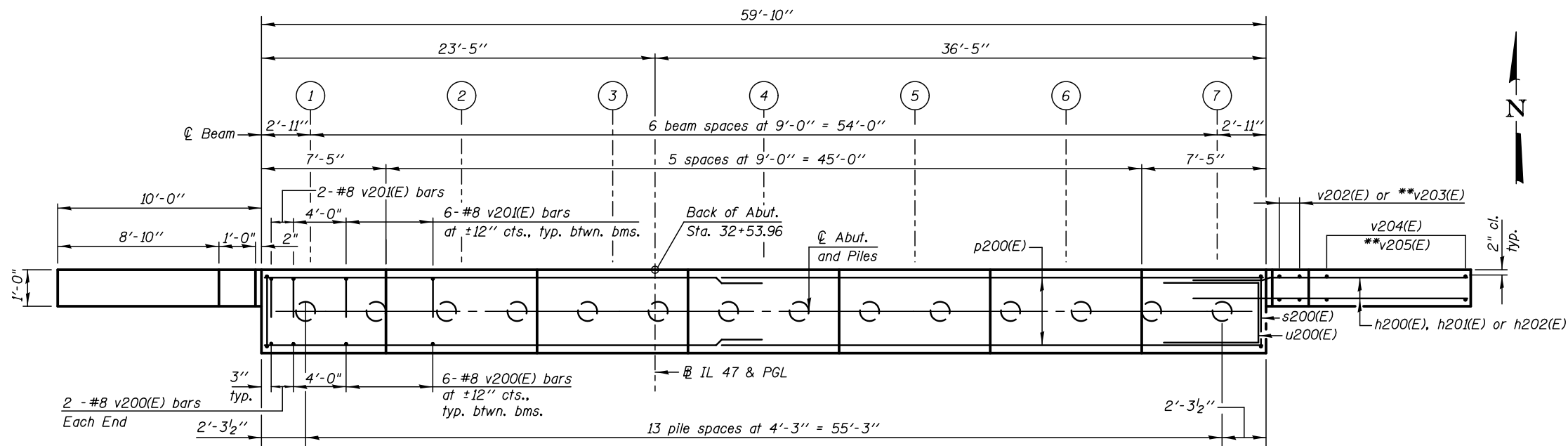
PILE DATA

Type: Metal Shell Pile 14" ϕ x 0.25" Wall
Nominal Required Bearing: 364 Kips
Factored Resistance Available: 200 Kips
Est. Length: 54 ft
No. Production Piles: 13
No. Test Piles: 1

MIN. BAR LAP

#7 - 5'-0"

PLAN



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT
STRUCTURE NUMBER 056-0316

SHEET NO. S-20 OF 24 SHEETS

F.A./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105X-B	MCHENRY	223	126
CONTRACT NO. 62A80				
ILLINOIS FED. AID PROJECT				

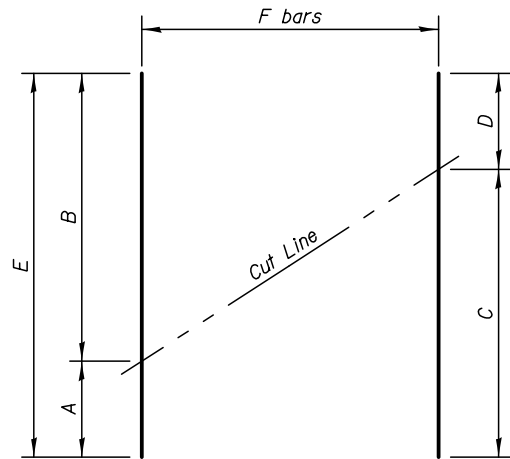
KNIGHT

Engineers & Architects

DESIGNED - JW	REVISED
CHECKED - FW	REVISED
DRAWN - BK	REVISED
CHECKED - FW	REVISED

SCALE - NONE
DATE - 7/27/2020

PLOT DATE = 10/8/2020



FIELD CUTTING DIAGRAM

Order bars full length. Cut as shown and use remainder of bars in opposite face or as noted.

BAR	A	B	C	D	E	F
h201(E)	8'-5"	12'-3"	12'-3"	8'-5"	20'-8"	4
v204(E)	3'-11"	7'-5"	7'-5"	3'-11"	11'-4"	9
v205(E)	3'-7"	7'-1"	7'-1"	3'-7"	10'-8"	9

BILL OF MATERIAL SOUTH ABUTMENT

BAR	NO.	SIZE	LENGTH	SHAPE
h200(E)	32	6	13'-6"	=====
h201(E)	8	6	20'-9"	=====
h202(E)	4	5	9'-10"	=====
p200(E)	36	7	32'-3"	=====
p201(E)	4	5	35'-8"	=====
s200(E)	71	5	14'-5"	=====
s201(E)	28	5	4'-7"	=====
s202(E)	36	5	5'-5"	=====
** sp200(E)	14	4	2'-0"	=====
u200(E)	8	6	11'-1"	=====
v200(E)	40	8	5'-11"	=====
v201(E)	40	8	6'-2"	=====
v202(E)	4	5	7'-5"	=====
*v203(E)	4	5	7'-1"	=====
v204(E)	9	5	11'-4"	=====
*v205(E)	9	5	10'-8"	=====
Reinforcement Bars, Epoxy Coated			LB	6,580
Concrete Structures			Cu. Yd.	37.9
Furnishing Metal Shell Piles, 14" x 0.250"			Foot	572
Driving Piles			Foot	572
Test Pile Metal Shells			Each	1
Structure Excavation			Cu. Yd.	122

BILL OF MATERIAL NORTH ABUTMENT

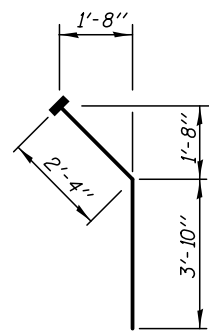
BAR	NO.	SIZE	LENGTH	SHAPE
h200(E)	32	6	13'-6"	=====
h201(E)	8	6	20'-9"	=====
h202(E)	4	5	9'-10"	=====
p200(E)	36	7	32'-3"	=====
p201(E)	4	5	35'-8"	=====
s200(E)	71	5	14'-5"	=====
s201(E)	28	5	4'-7"	=====
s202(E)	36	5	5'-5"	=====
** sp200(E)	14	4	2'-0"	=====
u200(E)	8	6	11'-1"	=====
v200(E)	40	8	5'-11"	=====
v201(E)	40	8	6'-2"	=====
v202(E)	4	5	7'-5"	=====
*v203(E)	4	5	7'-1"	=====
v204(E)	9	5	11'-4"	=====
*v205(E)	9	5	10'-8"	=====
Reinforcement Bars, Epoxy Coated			LB	6,580
Concrete Structures			Cu. Yd.	37.9
Furnishing Metal Shell Piles, 14" x 0.250"			Foot	702
Driving Piles			Foot	702
Test Metal Piles			Each	1
Structure Excavation			Cu. Yd.	121

* Designated East Wingwall Reinforcement

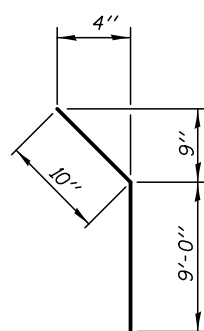
** Length is height of spiral.

Notes:

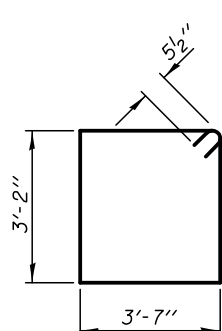
Hedded bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.



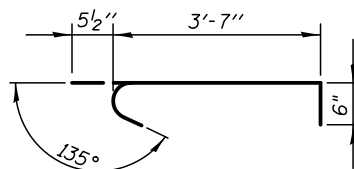
BAR v201(E)
(Hedded)



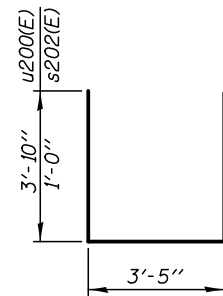
BAR h202(E)



BARS s200(E)



BAR s201(E)

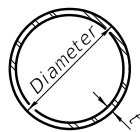


BAR s202(E) &
BAR u200(E)



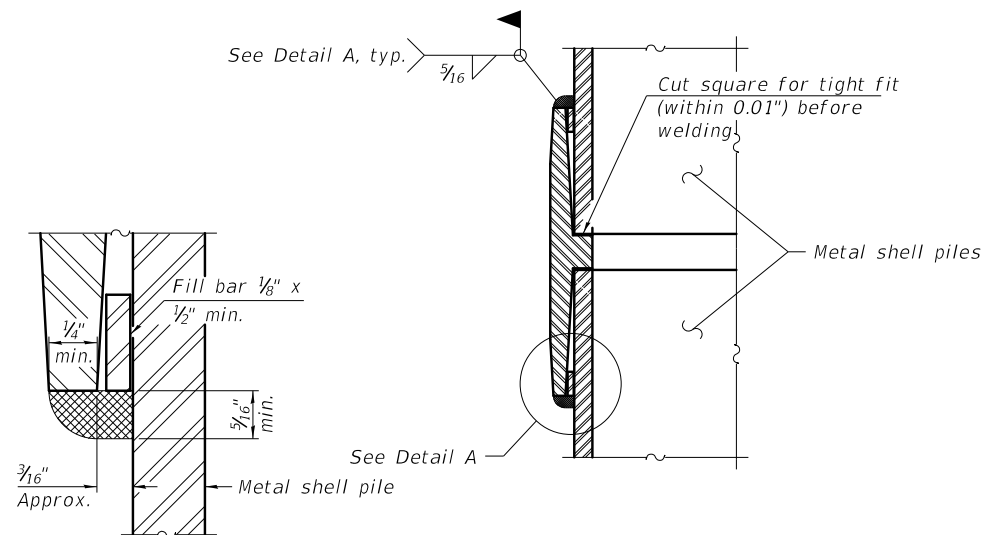
BAR v200(E)
(Hedded)

PLOT DATE = 10/8/2020

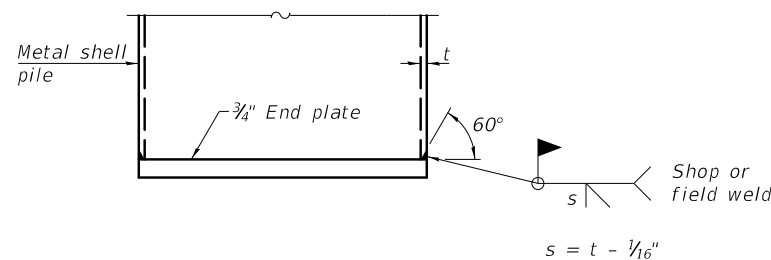


METAL SHELL PILE TABLE

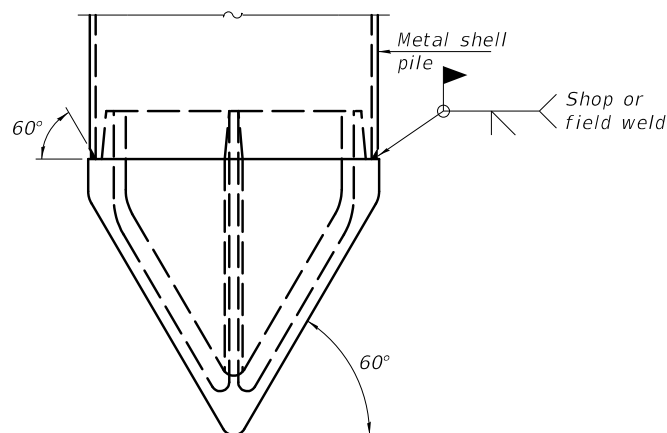
Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd. ³ /ft.)
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361
PP16	0.312"	52.32	0.0478
PP16	0.375"	62.64	0.0470



DETAIL A



END PLATE ATTACHMENT

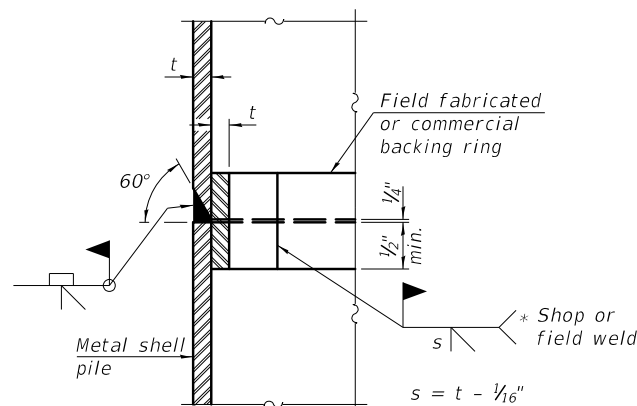


PILE SHOE ATTACHMENT

(When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 90-60 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld).

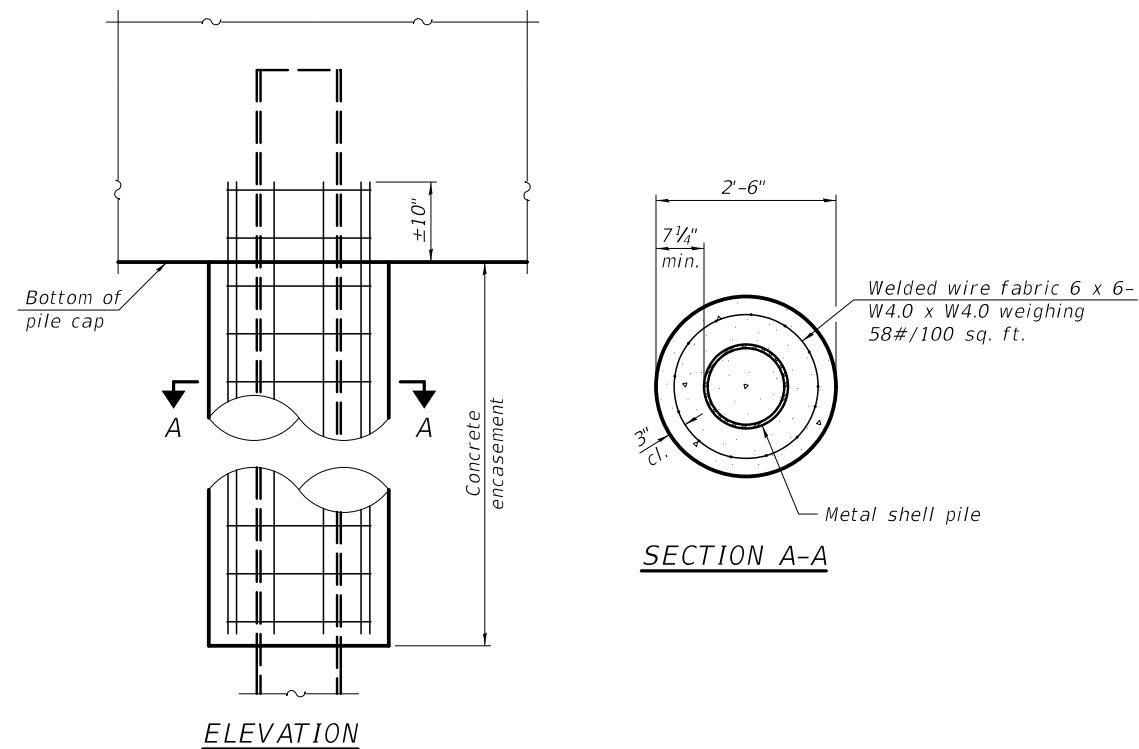
WELDED COMMERCIAL SPLICE

Notes:
The 1/8" x 1/2" min. fill bar may be constructed of 2 bars with a 1/8" max. gap between them.
Pile segments shall be driven to solid contact with splicer before welding.

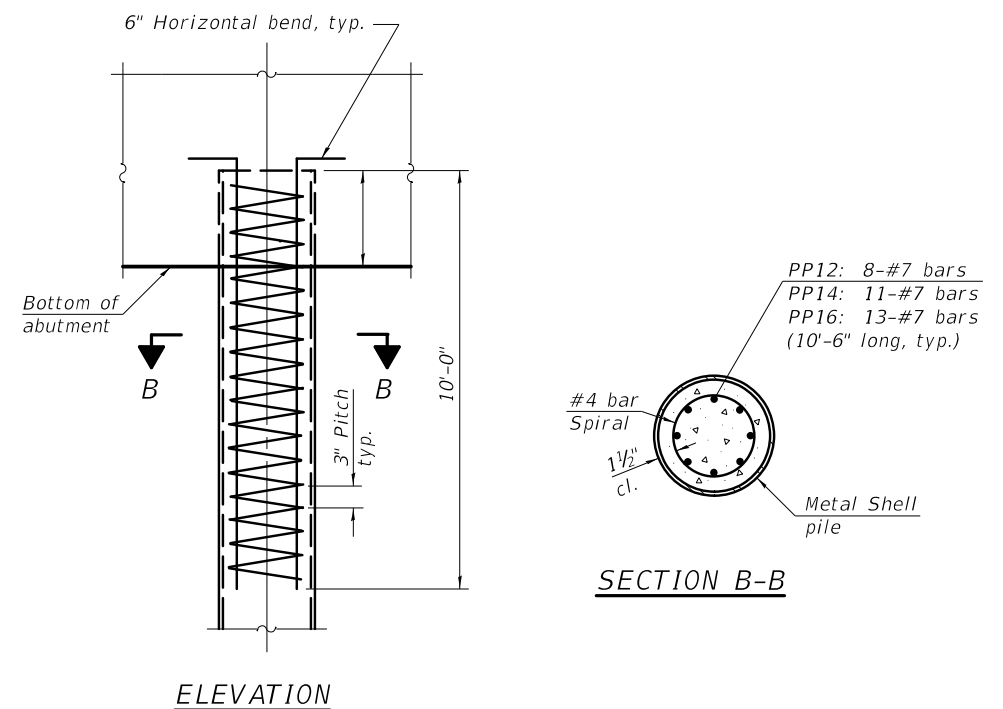


COMPLETE PENETRATION WELD SPLICE

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



INDIVIDUAL PILE CONCRETE ENCASEMENT AT PIERS



REINFORCEMENT AT ABUTMENTS

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

F-MS

8-11-2017

KNIGHT

Engineers & Architects

DESIGNED - JW	REVISED
CHECKED - FW	REVISED
DRAWN - BK	REVISED
CHECKED - FW	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

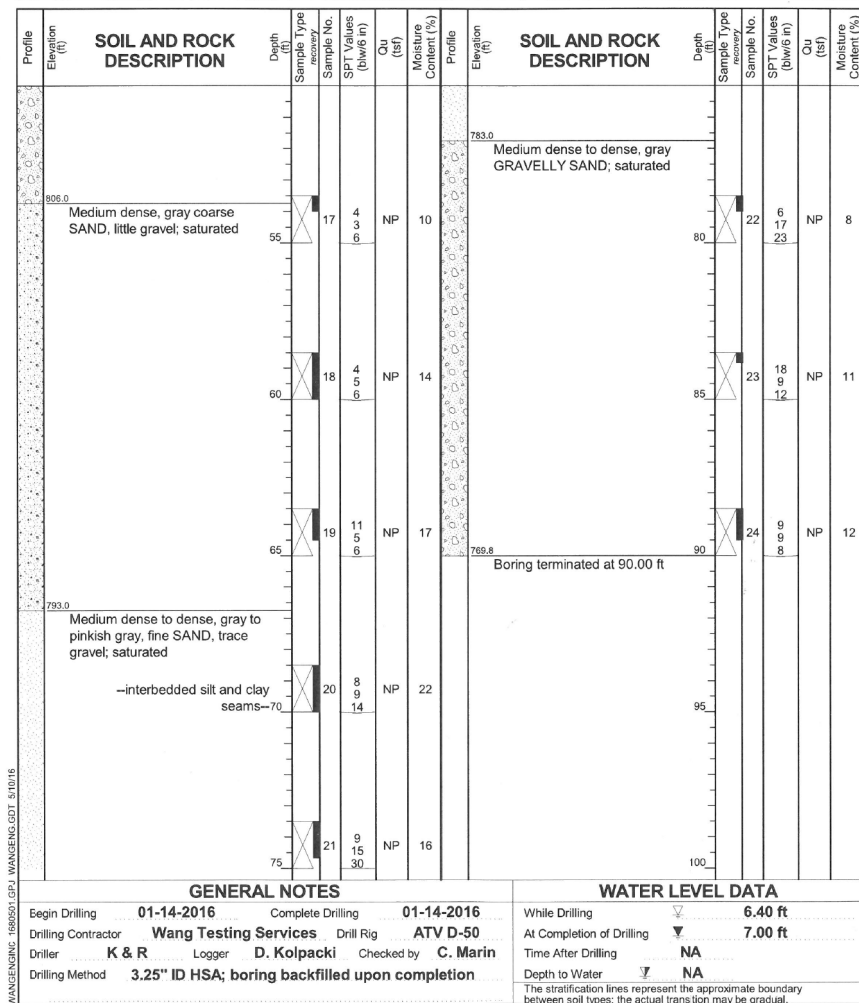
METAL SHELL PILE DETAILS
STRUCTURE NUMBER 056-0316

SHEET NO. S-22 OF 24 SHEETS

F.A./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105X-B	MCHENRY	223	128
CONTRACT NO. 62A80				
ILLINOIS FED. AID PROJECT				

PLOT DATE = 7/29/2020





BOND ISSUE ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
47	105KX-WPH-MH 105KX-WPH	McHenry	70	1

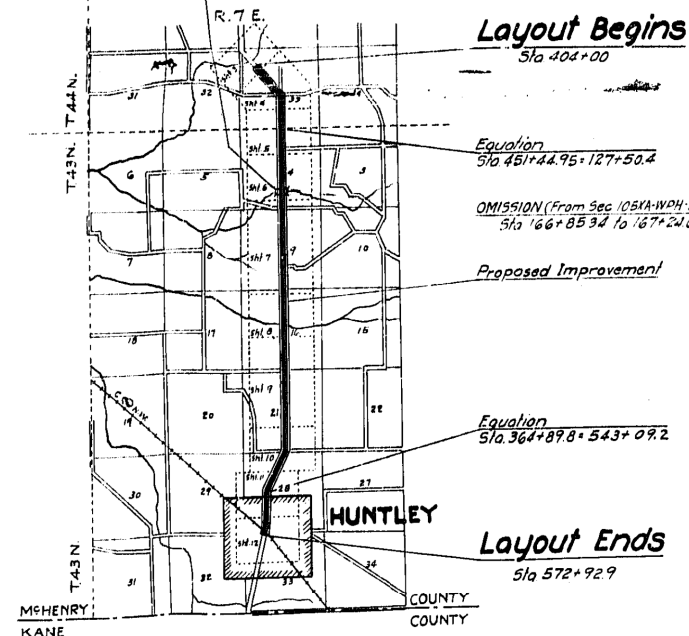
From a point near the Center of the NW 1/4 of Sec 33, T.44N, R.7E of the 3rd P.M.
To a point near the SE Cor of the SW 1/4 of the SW 1/4 of Sec 28, T.44N, R.7E. of the 3rd P.M.

Index of Sheets

<u>SECTION</u>		<u>105XA-WPH-MH</u>
Sheet No. 1	Title Page	
" 2	Standard 1601	
" 3	Plan and Profile Sta	404+00 to 410+00
" 4	"	410+00 " 440+00
" 5	"	440+00 " 145+00
" 6	"	145+00 " 175+00
" 7	"	175+00 " 235+00
" 8	"	235+00 " 265+00
" 9	"	265+00 " 325+00
" 10	"	325+00 " 355+00
" 11	"	355+00 " 555+00
" 12	"	555+00 " 572+92.9
" 13 to 57	Inclusive Cross Section	
" 60	Spec Culy. Des. Sta	409+00, 424+72, 442+65, 450+00
" 61	"	136+00, 146+25, 164+04, 165+4
" 62	"	217+40, 229+00, 258+91, 259+1
" 63	"	267+00, 285+83, 294+19, 298+3
" 64	"	319+71, 336+00, 351+30, 553+5
" 65	"	558+00,
" 65	Standards	829, 1258, 1527
" 66	"	1514, 1516
" 67	"	1538, 1668, R.C.R.#1
<u>SECTION</u>		<u>105XB-WPH</u>
Sheet No. 1	Title Page	
" 6	Plan and Profile Sta	145+00 to 175+00
" 60, 61, 70	Spec Br. Design Sta	167+00 Sheets 1283 of 1

SECTION 02630-WPH-MM
00753 Cu Yds. Earth Excavation
950 Cu Yds. Rock Excavation
1000 Cu Yds. Channel Excavation
85395 Cu Yds. Borrow
5645 Cu Yds. Class X Concrete
54250 Lbs. Reinforcement Bars
3220 Lin. Ft. Storm Sewers 8 inch
2000 Lin. Ft. Storm Sewers 10 inch
2000 Lin. Ft. Storm Sewers 12 inch
3920 Lin. Ft. Storm Sewers 15 inch
1030 Lin. Ft. Pipe Culverts 15 inch
124 Lin. Ft. Pipe Culverts 18 inch
80 Lin. Ft. Pipe Culverts 24 inch
StuLin. Ft. Corrugated Hic W Pipe 36 inch
1 Each Manhole, Type A, 4 diam Type 5 Frame, Closed Lid
3 Each Catch Basins, Type C with Type B Grate
2 Each Catch Basins, Type A 1 ft Type B Grate
50 Cu Yds. Trench Backfill
110 Cu Yds. Sand, Gravel or Crushed Stone Backfill
305 Cu Yds. Gravel or Crushed Stone, Grade 2 or 3
1575 Sq. Ft. Sidewalk Removal
875 Sq. Ft. PC Concrete Sidewalk 5 inch
13 Each Tile Inlets
25 Sq Yds. Pavement Replacement
150 Each Furnishing & Erecting Right of Way Markers
6000 Cu Yds. Subgrade Replacement
3000 Lin. Ft. Pipe Drains 6 inch
3000 Lin. Ft. Pipe Drains 8 inch
3000 Lin. Ft. Pipe Drains 10 inch
2100 Cu Yds. Sand, Gravel or Crushed Stone Backfill for Pipe Drains
2 Each Section Markers
1182 Bbls. Cement

4.1	Cu Yds	Handrail Concrete
209.1	Cu Yds	Class X Concrete
31190	Lbs.	Reinforcement Bars
1800	Lin. Ft.	Furnishing Untreated Piles, up to 20' long
1800	Lin. Ft.	Driving Piles up to 20' long
2	Each	Test Piles
1	Each	Removal of Old Bridge
302	Bbls.	Cement



Approximate Scale - 1 Inch = 1 Mile
Net Length of Layout = 31468.05 Ft. = 5.9599 Miles

STATE LINE	_____	RETAINING WALL	_____
COUNTY LINE	_____	BASE OR SURVEY LINE	_____
CITY, VILLAGE OR TOWN	_____	LEVEE	_____
TOWNSHIP LINE	_____	CULVERT	_____
SECTION LINE	_____	STORM SEWER	_____
GRANT LINE	_____	TILE DRAIN	_____
SECTION CORNER		DROP INLET	_____
FENCE LINE	_____	TROLLEY POLE	_____
UNFENCED PROPERTY	_____	POWER POLE	_____
RIGHT OF WAY LINE	_____	TELEPHONE OR TELEGRAPH POLE	_____
GUARD RAIL	_____	MALE	_____
STEAM RAILROAD	_____		_____

KNIGHT

Engineers & Architects

USER NAME = jmurillo	DESIGNED -
	DRAWN - CEO
PLOT SCALE = 1:20	CHECKED - JCM
PLOT DATE = 8/25/2020	DATE - AUGUST 25, 2020

REVISED	-
REVISED	-
REVISED	-
REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING PLANS
STRUCTURE NUMBER 056-0025

SCALE:	SHEET EX-1 OF 5 SHEETS	STA.	TO STA.
--------	------------------------	------	---------

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(105XB)B-R	MCHENRY	223	130A
		CONTRACT NO. 62A80		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID	PROJECT	

FILE NAME : D:\2280-shr-misc-EX Bridge-02.dgn

KNIGHT

Engineers & Architects

USER NAME : jmurillo	DESIGNED -	REVISED -
	DRAWN - CEO	REVISED -
PLOT SCALE : 1:20	CHECKED - JCM	REVISED -
PLOT DATE : 8/25/2020	DATE - AUGUST 25, 2020	REVISED -

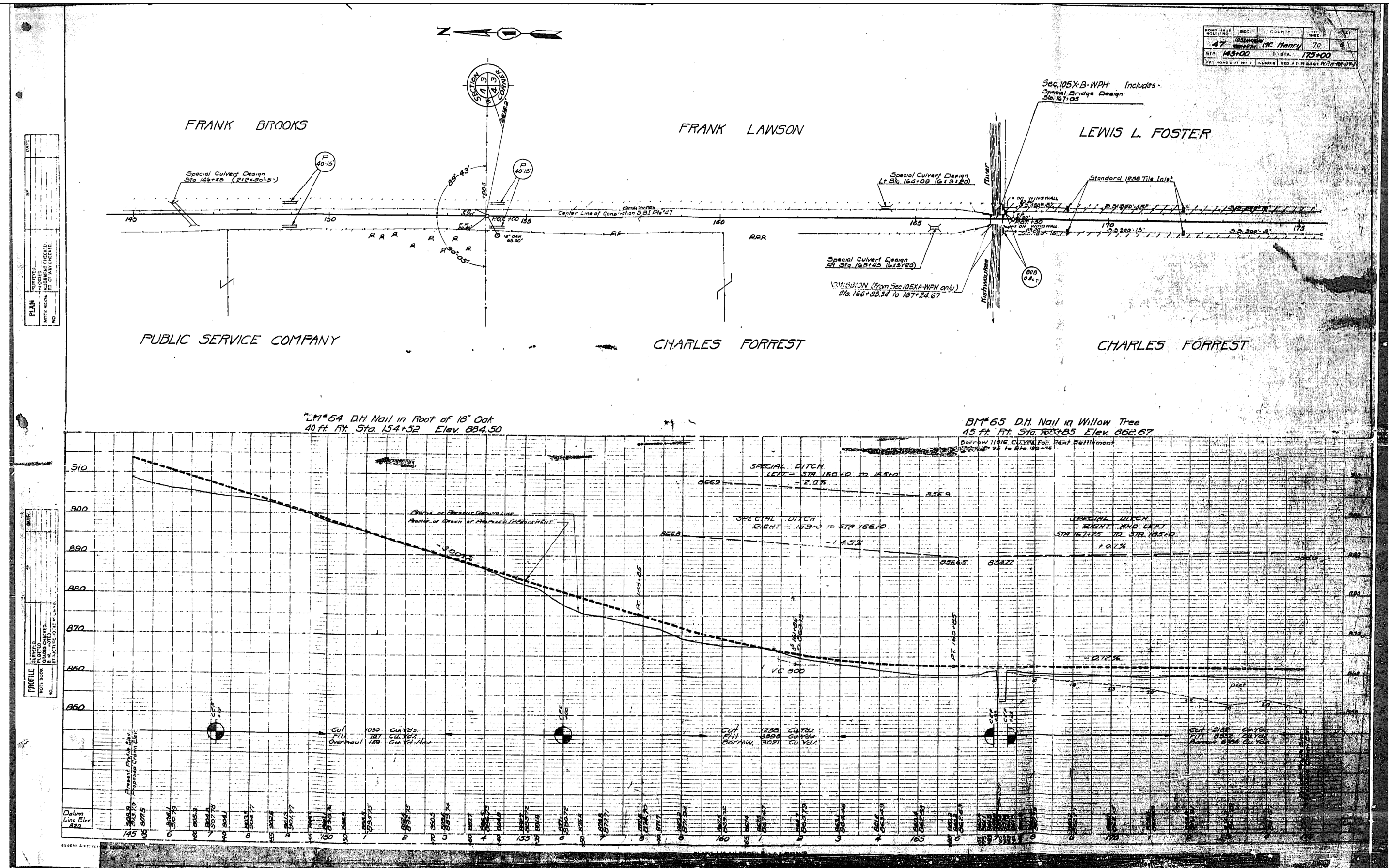
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NUMBER 056-0025

SCALE: SHEET EX-2 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(105X8)B-R	MCHENRY	223	130B
CONTRACT NO. 62A80				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

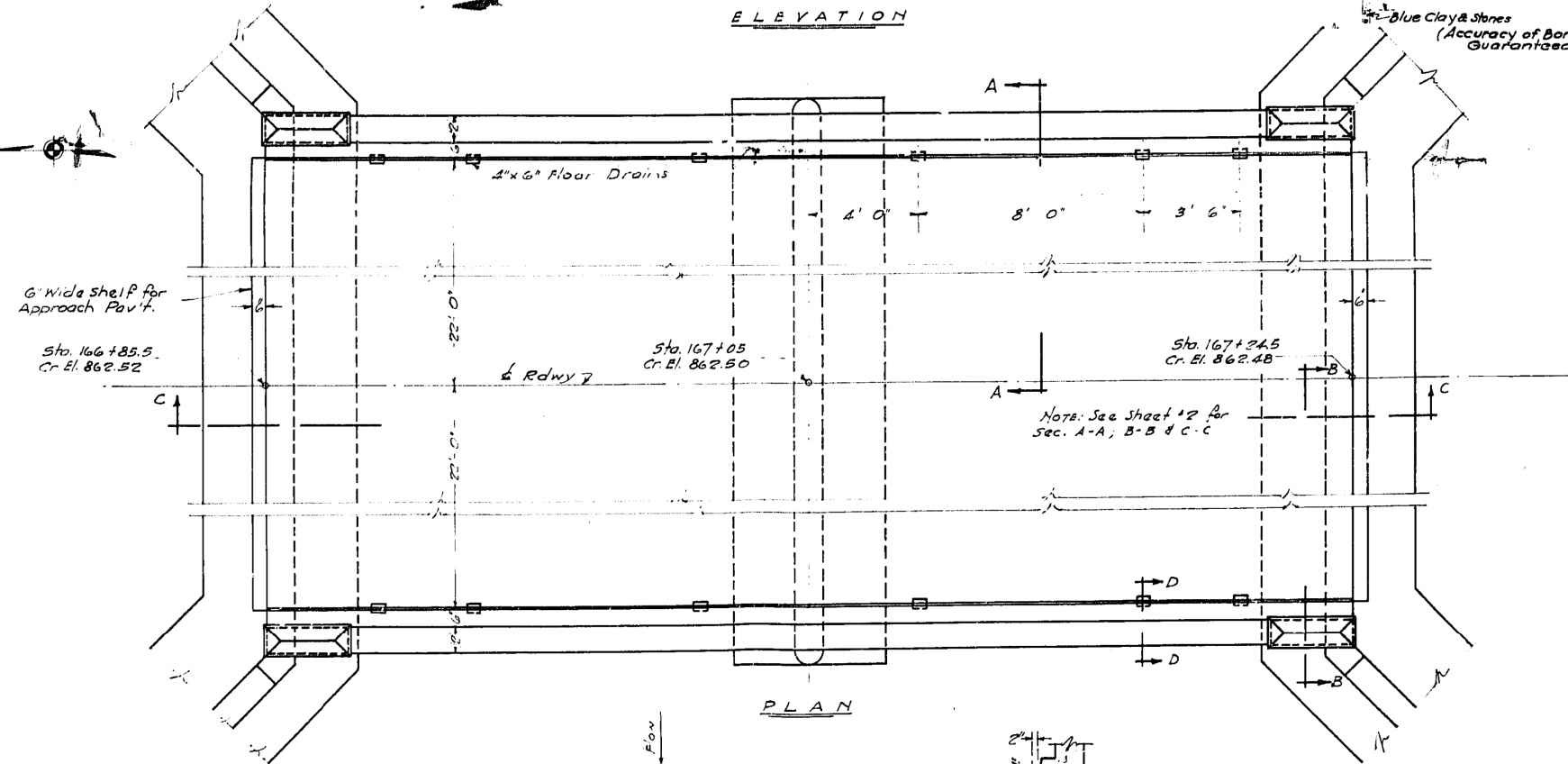
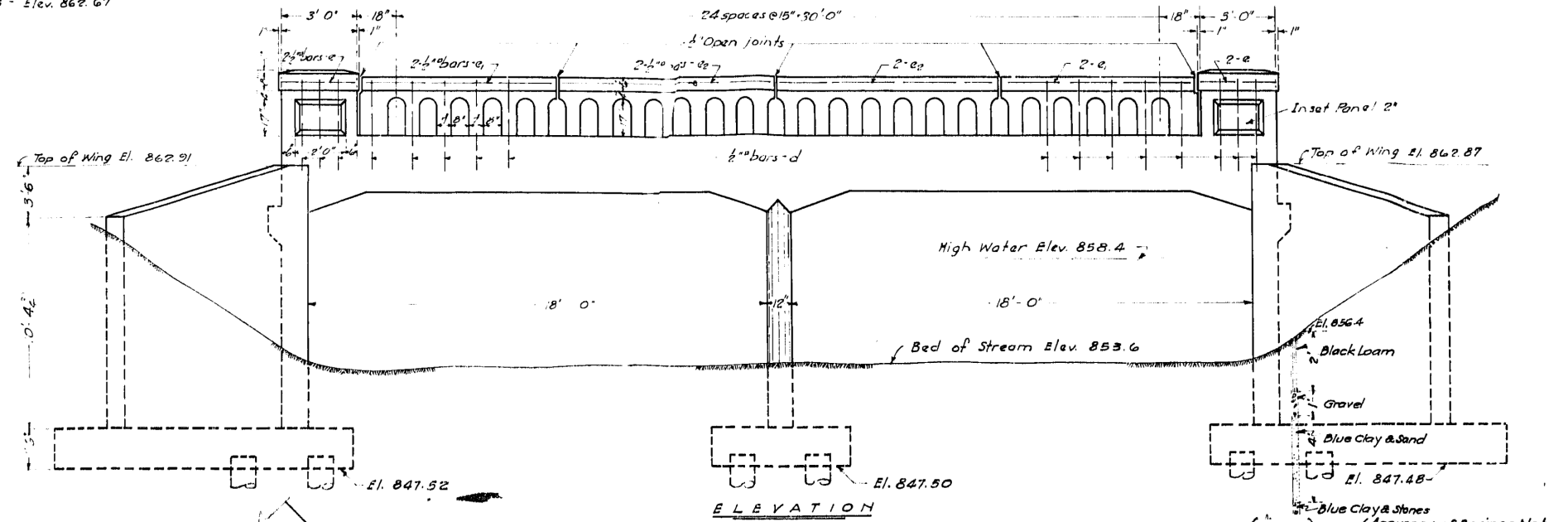


B.M.: *65-D-H. Nailed to Willow Tree
45' Rht. Sta. 166 + 85 - Elev. 862.67

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

BOND ISSUE ROUTE No.	SEC.	COUNTY	TOTAL SHEETS	SHEET No.
47	105XB- 14PH	McHenry	70	68
FED. ROAD DIST. No. 7		ILLINOIS	FED. AID PROJECT WPH 119-F	

SHEET NO. 1
3 SHEETS



STANDARD	COMPUTED <i>[Signature]</i>
	CHECKED
	DRAWN <i>[Signature]</i>
SPECIAL	CHECKED <i>[Signature]</i>
	ASSEMBLED
	CHECKED

EXAMINED 12-16-79

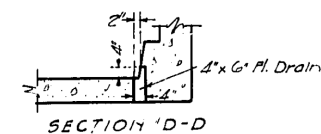
PASSED

APPROVED

BRIDGE ENGINEER

ENGINEER OF DESIGN

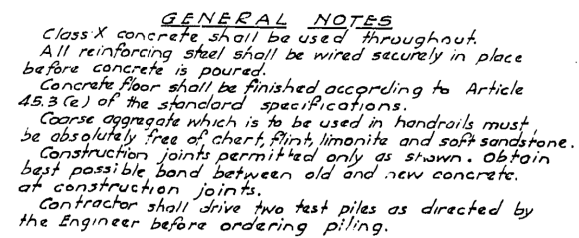
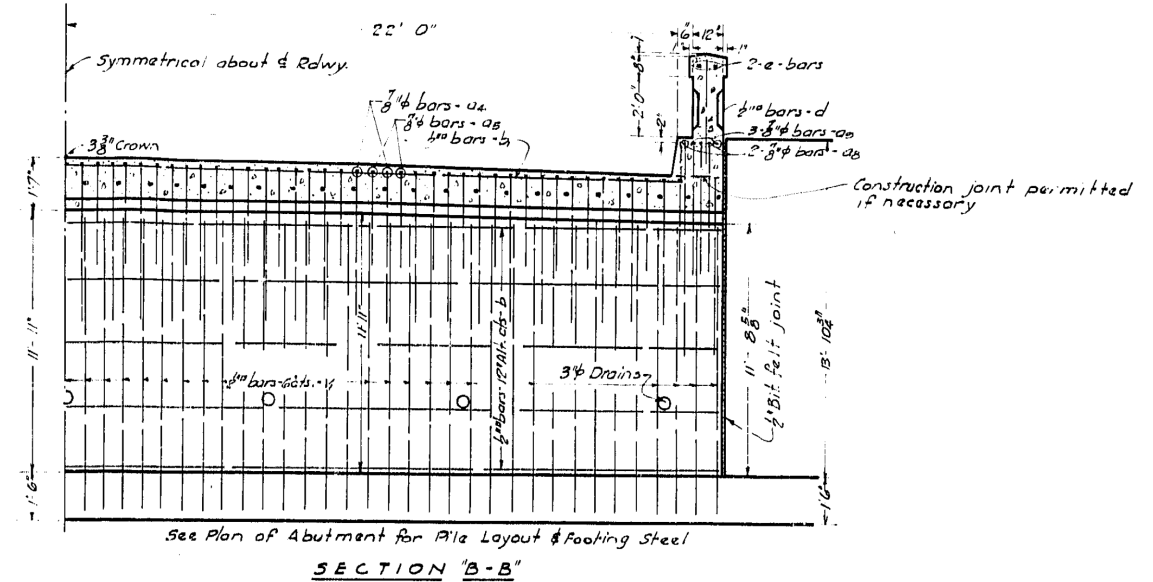
SEAL



Branch of Kishwaukee River
3 B.I. RTE. 47- SEC. 105 X-B
MC HENRY COUNTY
STA. 167+05

FOR INFORMATION ONLY

BOND ISSUE ROUTE No.	SEC.	COUNTY	TOTAL SHEETS	SHEET No.	SHEET NO. 2 3 SHEETS
17	105XB- NPH	McHenry	70	69	
FED. ROAD DIST. No. 7		ILLINOIS	FED. AID PROJECT NPH. 17-1		



Branch of Kishwaukee River
S. B. I. Rte 47- SEC. 105 X-B
McHENRY COUNTY
STA. 167+05

FOR INFORMATION ONLY



IRON STAKE AT N. 1/4 COR. IS 14.85' WEST OF WEST LINE OF RT. 47
N. 1/4 COR.
THE STRIP OF LAND LYING BETWEEN THE NORTH AND SOUTH QUARTER SECTION LINE AND THE WEST LINE OF THE RIGHT OF WAY OF THE STATE HIGHWAY ROUTE 47 SHOULD BE ACQUIRED.

THE PLAT

HEREON DRAWN IS A COPY OF THE PLAT,
FROM THE OFFICE OF THE FORMER COUNTY SURVEYOR,
GEORGE L. TRYON
OF SURVEY FOR INDUSTRIAL GEAR MFG. CO. AND DATED
DECEMBER 30, 1944.

IRON STAKE AT CENTER OF SECTION BY INTERSECTION OF QUARTER LINES IS 27.25' WEST OF E. OF PAVEMENT
CENTER OF SECTION 4
QUARTER SECTION LINE

ROUTE 47

(80 FEET WIDE)

STATE HIGHWAY

QUARTER COR.

QUARTER CORNER BETWEEN SECTIONS 4 AND 9 - NOTCH IN IRON STAKE WEST OF E. OF PAVEMENT

STATE

FOR REFERENCE ONLY

SE. 1/4

SW. 1/4
157.228 A

NW. 1/4
157.287 A.C. ±
AREA TO WEST LINE AS FENCED

W. 1/4 COR. BY OCCUPATION

W. 1/4 COR. BY PROPORTIONATE MEAS.

ADDITION AREA TO SECTION LINE 0.88 Ac. ±

PUBLIC HIGHWAY

SECTION 4
CORNER

HUS.
FENCE
OBER 24, 1944

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(105XB)B-R	MCHENRY	223	131
CONTRACT NO. 62A80				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

EXISTING FIELD TILE SYSTEM				
SCALE:	SHEET 1	OF 1 SHEETS	STA.	TO STA.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DESIGNED - CEO	REVISED -
DRAWN - CEO	REVISED -
CHECKED - JCM	REVISED -
DATE - JULY 27, 2020	REVISED -

USER NAME = jmurillo
PLOT SCALE = 1:20
PLOT DATE = 7/29/2020

KNIGHT

Engineers & Architects

MIDWEST FIBER NETWORKS
RELOCATE FIBER
PROJECT # 1905020
IL 47_FOSTER RD. TO BALLARD RD.
HUNTLEY, IL
McHENRY COUNTY,
NOVEMBER 2019

SYMBOLS	
2 x 1.25" HDPE SDR11 Innerduct / Tracer Wire	House / Building
Station Mark	Existing Handhole
Splice	Existing Manhole
Storage Loop	Power Pole
Proposed Handhole	Water Valve / Meter
Proposed Ase/Dn Guy	Tel Pole
Bond to Ground	Gas Valve / Meter
Grounded	Transmission Pole
Fiber Locate Marker Post	Hydrant
Buried Cable Marker	Sign
New Aerial Fiber Cable	Mailbox
New Underground Fiber Cable-Flow	Street/Traffic Light
New Underground Fiber Cable-Bore	Tel Ped
Township Line	TV Ped
City Limits	Ele Ped/Transformer
R/W Line	Deciduous Tree
River/Stream	Evergreen Tree
C/L Road	
RR Tracks	
Fence	
Oil Pipeline	Exis City Comm Line
Gas Pipeline	Exis Tele
Water Line	Exis Aerial Fiber Cable
San. Sewer	Exis UG Fiber Cable
Storm Sewer	Exis UG Power Line
Exis UG Telephone	Exis CATV
Exis CATV	Exis FiberOptic
Exis FiberOptic	B.I.P. Black Iron Pipe
	G.I.P. Galvanized Iron Pipe

MWFN CONTACT INFO
OSP ENGINEER: Patrick Graham
414-672-5606
EMERGENCY NOTIFICATION NUMBER: 1-866-831-1661

Call Before You Dig
ILLINOIS ONE-CALL SYSTEM
Simply Call 811
CALL: (847) 963-0387
OR
TOLL FREE
(800) 892-0123
www.illinois1call.com

DRAWING DISCLAIMER
Facility locations are general in nature. MWFN will not be held accountable for the accuracy of the information provided on these drawings.

CONSTRUCTION

REVISIONS			
REV. NO.	DESCRIPTION	BY	DATE
CABLE FIBER COUNT: 96 CT FOC		CABLE DESCRIPTION	
CABLE REEL NO.		PIPE & INNERDUCT PLACEMENT	
SPlice TO SPlice CABLE LENGTH:			
INNERDUCT & TYPE: 1.25" HDPE			
STEEL PIPE SIZE:			
PVC PIPE SIZE:			

MIDWESTFIBERNETWORKS
Midwest Fiber Networks, LLC
414.672.5612
6070 N Flint Road
Glendale, WI 53209

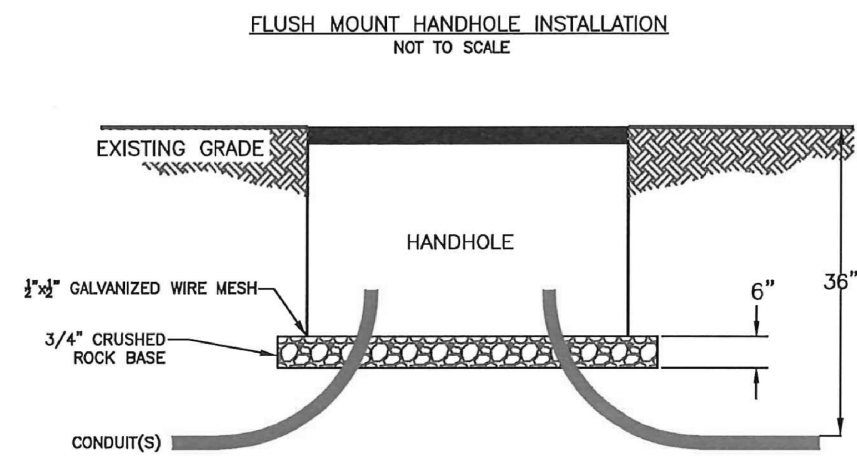
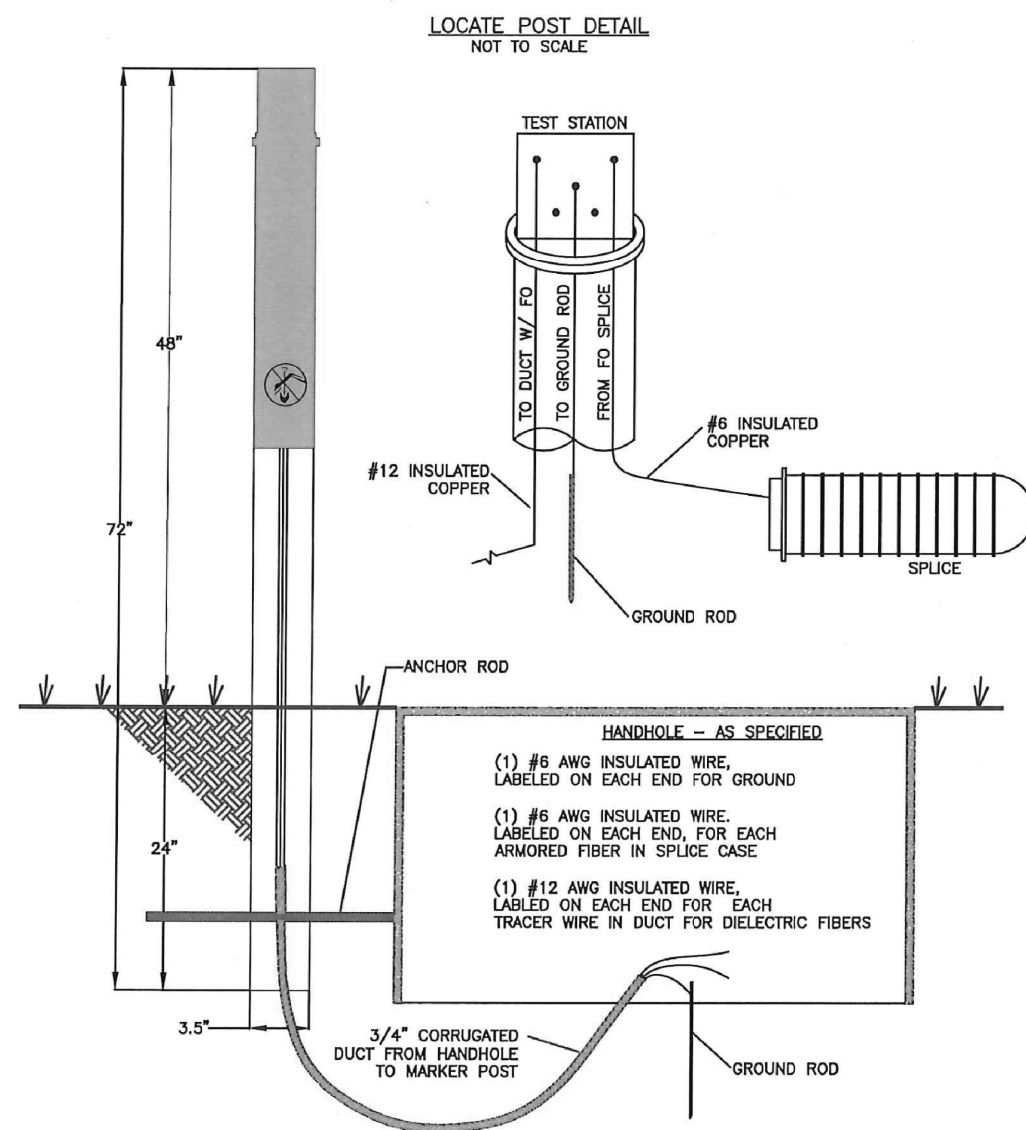
RELOCATE FIBER
1905020
FOSTER RD. TO BALLARD RD.

DRAWN BY : PMG	DATE :
CHECKED BY :	DATE :
APPROVED BY :	DATE :
APPROVED BY :	DATE :
HORIZONTAL SCALE (DWG & PROF) :	1" = 50'
VERTICAL SCALE (DWG) :	
VERTICAL SCALE (PROF) :	
MAP PROJECTION :	
DRAWING NUMBER :	TITLE

PROPRIETARY INFORMATION NOT FOR DISCLOSURE This set of plans contains confidential or proprietary information, and the recipient must not disclose, copy, re-create, or distribute the plans or the information contained therein, either directly or indirectly, to other entities or individuals without written or express permission from MWFN.

County: MC HENRY	Township: GRAFTON	City:	Section:	Town:	Range:
------------------	-------------------	-------	----------	-------	--------





- NOTES:

1. EXCAVATE THE EARTH APPROXIMATELY 6" DEEPER THAN THE DEPTH OF BOX. FILL ADDITIONAL DEPTH WITH CRUSHED ROCK.
2. EXTEND CRUSHED ROCK BASE BEYOND BOTTOM OUTSIDE EDGES OF VAULT.
3. PLACE WIRE MESH ON GRAVEL BASE
4. WITH COVER ON BOX, FILL AND COMPACT SOIL.

CONDUIT THAT SWEEPS INTO THE HANDHOLE MUST ENTER THE HANDHOLE FLUSH AND LEVEL TO AVOID FIBER MICRO BENDING. WHEN ENTERING A SHALLOW BOX, THE CHANGE IN THE ELEVATION OF THE CONDUIT RUN SHOULD BE KEPT AS SHORT AS POSSIBLE IN ORDER TO MAINTAIN MAXIMUM DEPTH.

62A80 223 133

SYMBOLS

	2 x 1.25" HDPE SDR11		Innersuds / Tracer Wire
	Station Mark		House / Building
	Splice		Existing Handhole
	Storage Loop		Existing Manhole
	Proposed Handhole		Power Pole
	Proposed Ane/Dn Guy		Water Valve / Meter
	Bond to Ground		Tel Pole
	Grounded		Gas Valve / Meter
	Fiber Locata Marker Post		Transmission Pole
	Buried Cable Marker		Hydrant
	New Aerial Fiber Cable		Sign
	New Underground Fiber Cable-Plow		Mailbox
	New Underground Fiber Cable-Bore		Street/Traffic Light
	Township Line		Tel Ped
	City Limits		Els Ped/Transformer
	R/W Line		
	River/Stream		Deciduous Tree
	C/L Road		Evergreen Tree
	RR Tracks		
	Fence		Exis City Comm Line
	Oil Pipeline		Exis Tele
	Gas Pipeline		Exis Aerial Fiber Cable
	Water Line		Exis UC
	San. Sewer		Fiber Cable
	Storm Saver		Exis UC
	Exis UC		Power Line
	Telephone		B.I.P. Black Iron Pipe
	Exis CATV		G.I.P. Galvanized Iron Pipe
	Exis FiberOptic		

MWEN CONTACT INFO

OSP ENGINEER: RICHARD TRGOVEC
414-226-2205

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PRELIMINARY

REVISIONS			
REV. NO.	DESCRIPTION	BY	DATE

CABLE FIBER COUNT: 96 CT FOC	CABLE DESCRIPTION
CABLE REEL NO.	
SPlice TO SPlice CABLE LENGTH:	PIPE & INNERDUCT PLACEMENT
INNERDUCT & TYPE:	
STEEL PIPE SIZE:	
PVC PIPE SIZE:	

MIDWESTFIBERNETWORKS

Midwest Fiber Networks, LLC

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FIBER BUILD

DRAWN BY : DBC	DATE :
CHECKED BY :	DATE :
APPROVED BY :	DATE :
APPROVED BY :	DATE :
HORIZONTAL SCALE (DWG & PROF) : 1" = 50'	
VERTICAL SCALE (DWG) :	
VERTICAL SCALE (PROF) :	
MAP PROJECTION :	
DRAWING NUMBER :	DETAILS

Bill of Materials

TOTAL 96CT 48SM/48LF FIBER REEL 111 - 4,475'

LINEAR 2- 1.25" HDPE DUCT FOOTAGE - 3,796'

30x48x36 HANDHOLE - 1

FIBER LOCATE POST - 1

FIBER MARKER - 8

24x36x24 HANDHOLE - 3

[illegible]

MWFN CONTACT INFO

OSP ENGINEER: Patrick Graham
414-672-5606

**EMERGENCY NOTIFICATION
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CONSTRUCTION

REVISIONS			
REV. NO.	DESCRIPTION	BY	DATE

CABLE FIBER COUNT: 96 CT FOC	CABLE DESCRIPTION
CABLE REEL NO.	
SPLICE TO SPLICE CABLE LENGTH:	PIPE & INNERDUCT PLACEMENT
INNERDUCT & TYPE: 1.25" HDPE	
STEEL PIPE SIZE:	
PVC PIPE SIZE:	

MIDWESTFIBERNETWORKS

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RELOCATE FIBER

RELOCATE FIBER
1905020
FOSTER RD. TO BALLARD RD.

DRAWN BY : PMO	DATE :
CHECKED BY :	DATE :
APPROVED BY :	DATE :
APPROVED BY :	DATE :

HORIZONTAL SCALE (DWG & PROF) : 1" = 50'

VERTICAL SCALE (DWG) :
VERTICAL SCALE (PROF) :

MAP PROJECTION :

DRAWING NUMBER : B.O.M.

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Township: GRAFTON

City:

Section:

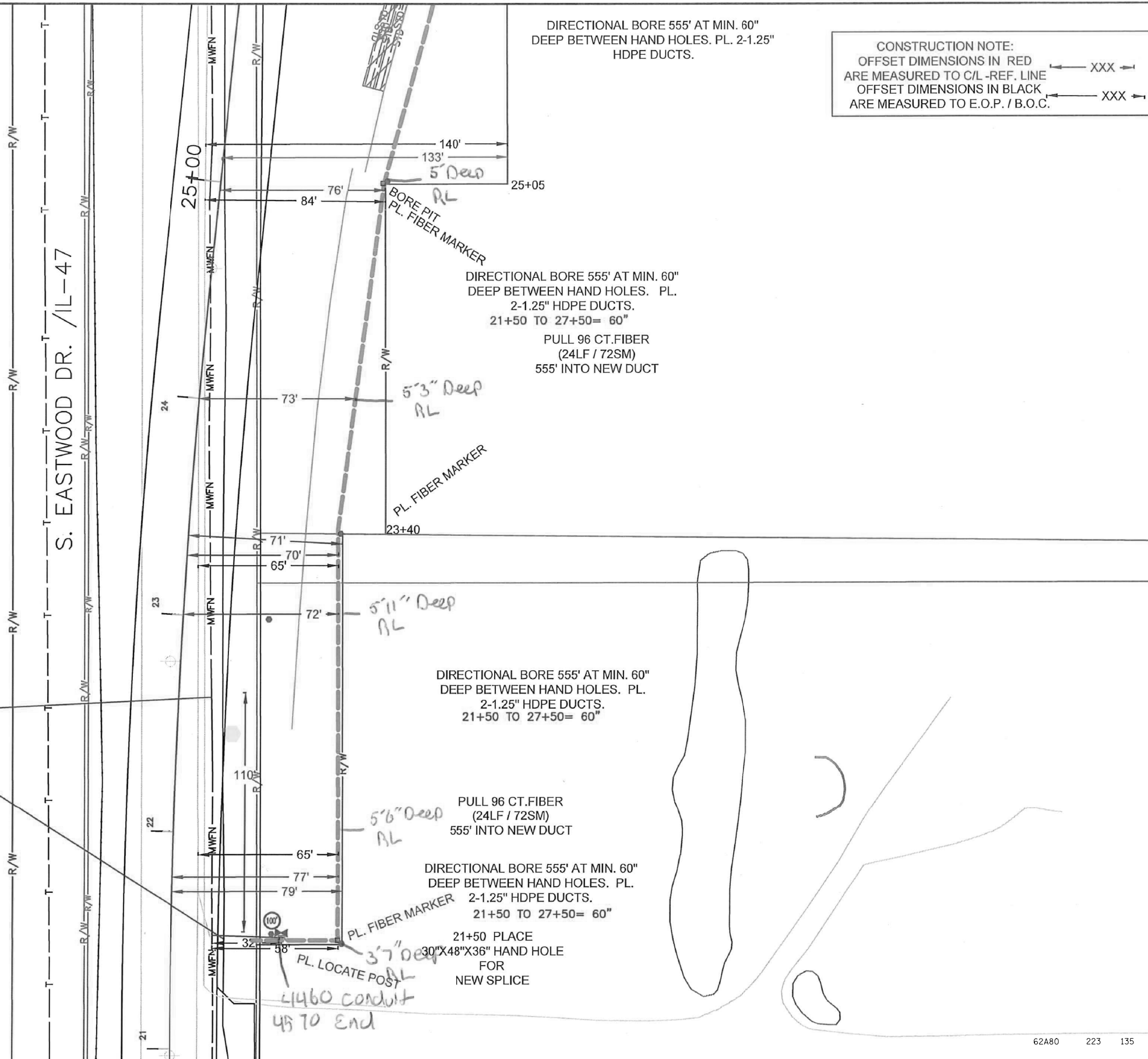
Town:

Range:



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CONTACT JULIE ONE CALL 3 DAYS PRIOR TO CONSTRUCTION FOR LOCATION OF UTILITIES AT 1-800-892-0123

- NOTES:
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 2. RESTORE ALL DISTURBED LAWN AREAS WITH TOPSOIL AND SEED AND COMPLY WITH ANY PROVISIONS SET FORTH BY THE MUNICIPALITY.
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CONSTRUCTION NOTE:
OFFSET DIMENSIONS IN RED
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OFFSET DIMENSIONS IN BLACK
ARE MEASURED TO E.O.P. / B.O.C.

SYMBOLS	
2 x 1.25" HDPE SDR11 Innerducts / Tracer Wire	House / Building
Station Mark	Existing Handhole
Splice	Existing Manhole
Storage Loop	Power Pole
Proposed Handhole	Water Valve / Meter
Proposed Arc/On Guy	Tel Pole
Bond to Ground	Gas Valve / Meter
Grounded	Transmission Pole
Fiber Locals Marker Post	Hydrant
Buried Cable Marker	Sign
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New Underground Fiber Cable-Flow	Street/Traffic Light
New Underground Fiber Cable-Bore	Tel Ped
Township Line	TV Ped
City Limits	Ele Ped/Transformer
R/W Line	Deciduous Tree
River/Stream	Evergreen Tree
C/L Road	
RR Tracks	
Fence	
Oil Pipeline	Exis City Comm Line
Gas Pipeline	Exis Tele
Water Line	Exis Aerial Fiber Cable
San. Sewer	Exis UG Fiber Cable
Storm Sewer	Exis UG Power Line
Exis UG Telephone	B.I.P. Black Iron Pipe
Exis CATV	G.I.P. Galvanized Iron Pipe
Exis FiberOptic	

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414-672-5808

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CONSTRUCTION

REVISIONS			
REV. NO.	DESCRIPTION	BY	DATE

CABLE FIBER COUNT: 96 CT FOC	CABLE DESCRIPTION
CABLE REEL NO.	
SPLICE TO SPLICE CABLE LENGTH:	
INNERDUCT & TYPE: 1.25" HDPE	PIPE & INNERDUCT PLACEMENT
STEEL PIPE SIZE:	
PVC PIPE SIZE:	

MIDWESTFIBERNETWORKS

Midwest Fiber Networks, LLC

414.672.5612
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Glendale, WI 53209

RELOCATE FIBER 1905020
FOSTER RD. TO BALLARD RD.

DRAWN BY : PMG	DATE :
CHECKED BY :	DATE :
APPROVED BY :	DATE :
HORIZONTAL SCALE (DWG & PROF) :	1" = 50'
VERTICAL SCALE (DWG) :	
VERTICAL SCALE (PROF) :	
MAP PROJECTION :	
DRAWING NUMBER :	1 OF 8

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OFFSET DIMENSIONS IN BLACK
ARE MEASURED TO E.O.P. / B.O.C.

SYMBOLS	
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C/L Road	
RR Tracks	
Fence	Exis City Comm Line
Oil Pipeline	Exis Tele
Gas Pipeline	Exis Aerial Fiber Cable
Water Line	Exis UG Fiber Cable
San. Sewer	Exis UG Power Line
Storm Sewer	Exis CATV
Exis UG Telephone	Exis FiberOptic
Exis CATV	B.I.P. Black Iron Pipe
Exis FiberOptic	G.I.P. Galvanized Iron Pipe

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EMERGENCY NOTIFICATION NUMBER: 1-866-831-1661

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CONSTRUCTION

REVISIONS			
REV. NO.	DESCRIPTION	BY	DATE

CABLE FIBER COUNT: 96 CT FOC	CABLE DESCRIPTION
CABLE REEL NO.	
SPLICE TO SPLICE CABLE LENGTH:	
INNERDUCT & TYPE: 1.25" HDPE	
STEEL PIPE SIZE:	PIPE & INNERDUCT PLACEMENT
PVC PIPE SIZE:	

MIDWESTFIBERNETWORKS
Midwest Fiber Networks, LLC
414.672.5612
6070 N Flint Road
Glendale, WI 53209

RELOCATE FIBER
1905020
FOSTER RD. TO BALLARD RD.

DRAWN BY : PMO	DATE :
CHECKED BY :	DATE :
APPROVED BY :	DATE :
APPROVED BY :	DATE :
HORIZONTAL SCALE (DWG & PROF) :	1" = 50'
VERTICAL SCALE (DWG) :	
VERTICAL SCALE (PROF) :	
MAP PROJECTION :	
DRAWING NUMBER :	2 OF 8

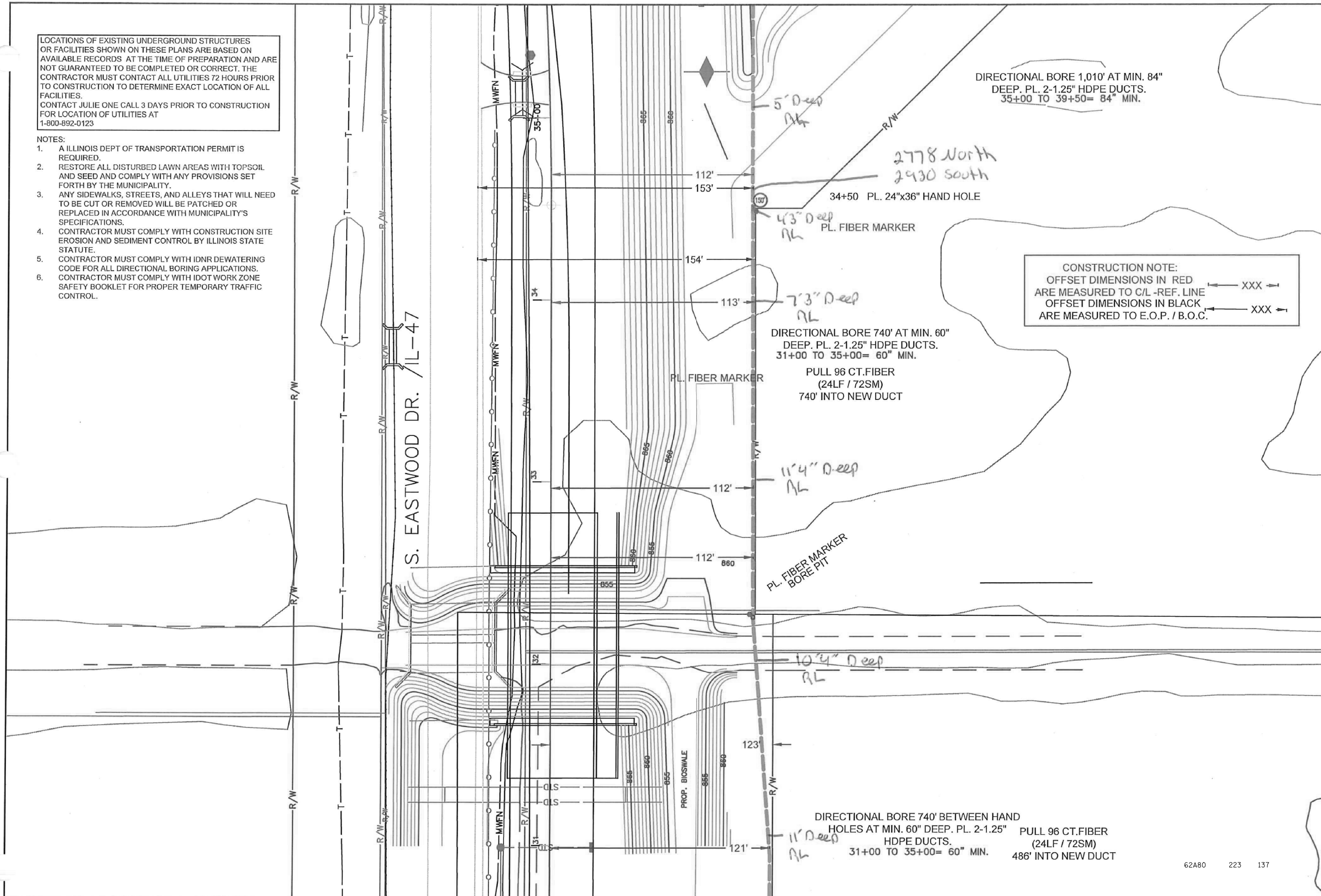
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SYMBOLS

2 x 1.25" HDPE SDR11 Innerducts / Tracer Wire	House / Building
Station Mark	Existing Handhole
Splice	Existing Manhole
Storage Loop	Power Pole
Proposed Handhole	Water Valve / Meter
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C/L Road	
RR Tracks	
Fence	Exds City Comm Line
Oil Pipeline	Exds Tele
Gas Pipeline	Exds Aerial Fiber Cable
Water Line	Exds UG Fiber Cable
Son. Sewer	Exds UG Power Line
Storm Sewer	Exds CATV
Exds UG	Exds FiberOptic
Exds CATV	B.I.P. Black Iron Pipe
Exds FiberOptic	G.I.P. Galvanized Iron Pipe

MWFN CONTACT INFO

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CONSTRUCTION

REVISIONS			
REV. NO.	DESCRIPTION	BY	DATE

CABLE FIBER COUNT: 96 CT FOC	CABLE DESCRIPTION
CABLE REEL NO.	
SPLICE TO SPLICE CABLE LENGTH:	
INNERDUCT & TYPE: 1.25" HDPE	PIPE & INNERDUCT PLACEMENT
STEEL PIPE SIZE:	
PVC PIPE SIZE:	

MIDWESTFIBERNETWORKS

Midwest Fiber Networks, LLC

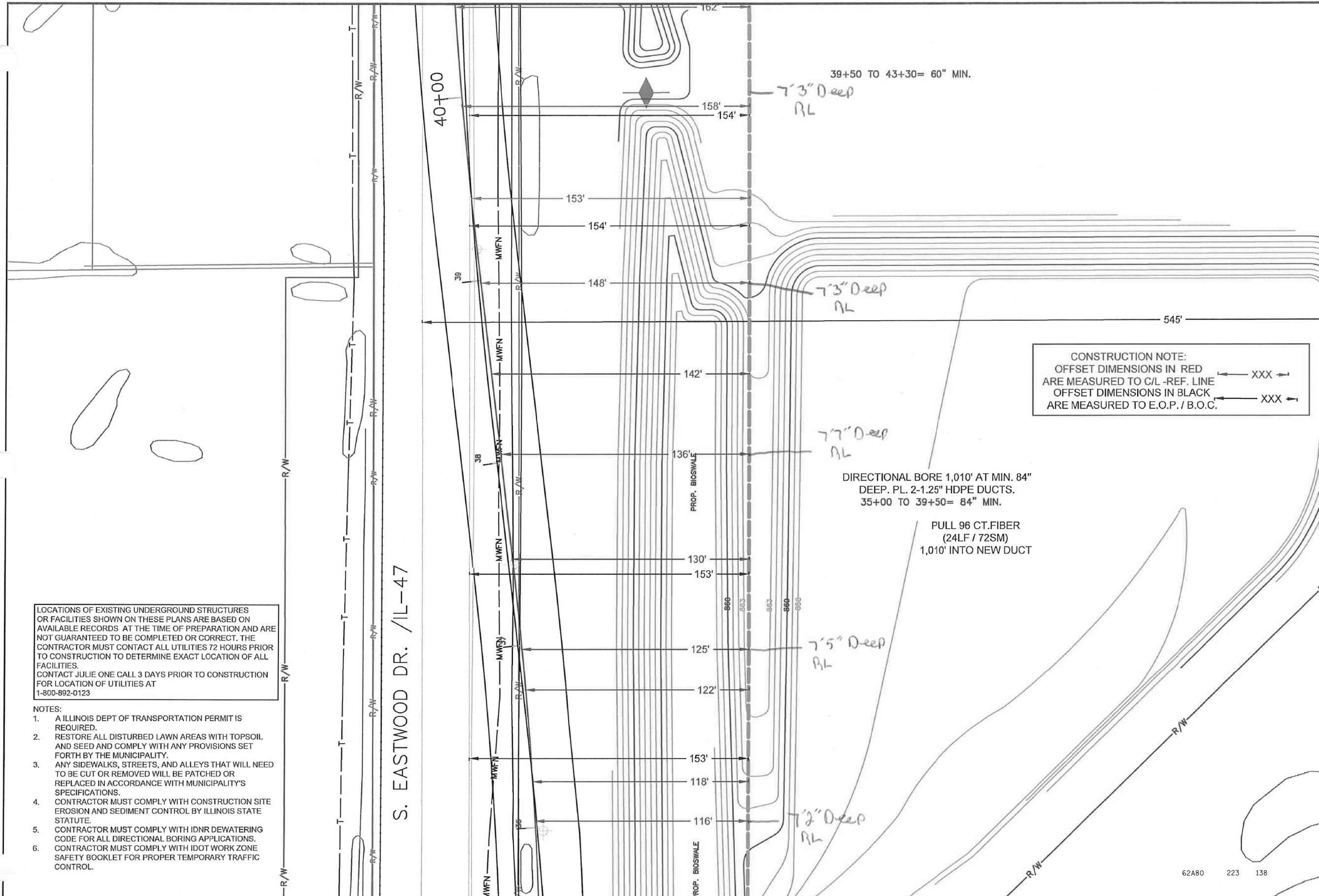
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RELOCATE FIBER 1905020
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DRAWN BY : PMG	DATE :
CHECKED BY :	DATE :
APPROVED BY :	DATE :
APPROVED BY :	DATE :
HORIZONTAL SCALE (DWG & PROF) : 1" = 50'	
VERTICAL SCALE (DWG) :	
VERTICAL SCALE (PROF) :	
MAP PROJECTION :	
DRAWING NUMBER : 3 OF 8	

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SYMBOLS	
2 x 1.25" HDPE SDR11 Innerducts / Tracer Wire	House / Building
Station Mark	Existing Handhole
Splice	Existing Manhole
Storage Loop	Power Pole
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Storm Sewer	Exis CATV
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Exis FiberOptics	

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REVISIONS			
REV. NO.	DESCRIPTION	BY	DATE
CABLE FIBER COUNT: 96 CT FOC		CABLE DESCRIPTION	
CABLE REEL NO.			
SPlice TO SPlice CABLE LENGTH:			
INNERDUCT & TYPE: 1.25" HDPE		PIPE & INNERDUCT PLACEMENT	
STEEL PIPE SIZE:			
PVC PIPE SIZE:			

MIDWEST FIBER NETWORKS

Midwest Fiber Networks, LLC

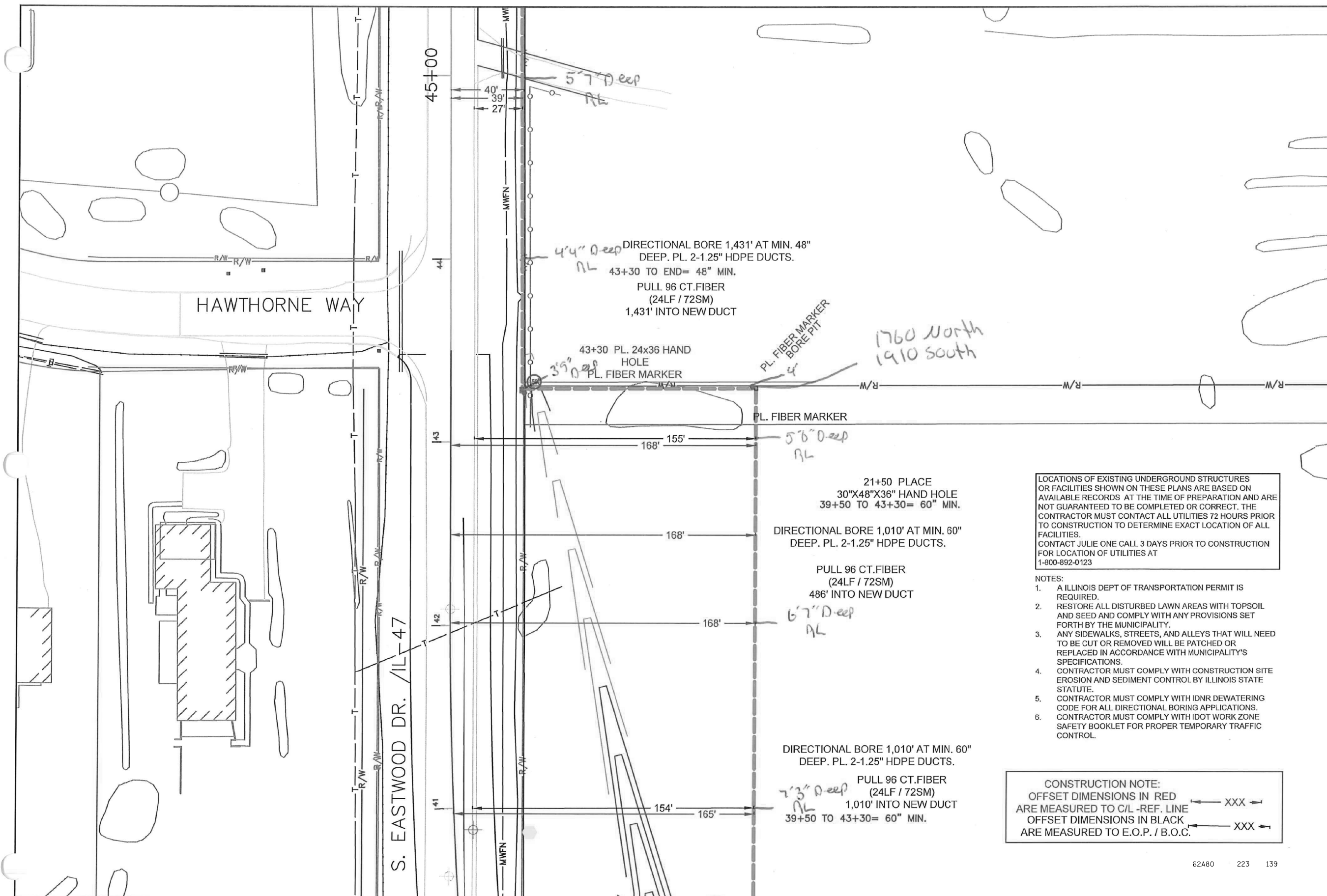
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APPROVED BY :	DATE :
APPROVED BY :	DATE :
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VERTICAL SCALE (PROF) :	
MAP PROJECTION : 4 OF 8	
DRAWING NUMBER :	

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SYMBOLS	
2 x 1.25" HDPE SDR11 Innerduct / Tracer Wire	House / Building
Station Mark	Existing Handhole
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River/Stream	Evergreen Tree
C/L Road	
RR Tracks	
Fence	
Oil Pipeline	Eds City Comm Line
Gas Pipeline	Eds Tele
Water Line	Eds Aerial Fiber Cable
Son. Sewer	Eds UG Fiber Cable
Storm Sewer	Eds UG Power Line
Eds UG	Eds CATV
Telephones	Eds FiberOptic
Eds CATV	B.I.P. Black Iron Pipe
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SPLICE TO SPLICE CABLE LENGTH:	
INNERDUCT & TYPE: 1.25" HDPE	PIPE & INNERDUCT PLACEMENT
STEEL PIPE SIZE:	
PVC PIPE SIZE:	

MIDWEST FIBER NETWORKS

Midwest Fiber Networks, LLC

414.672.5612
6070 N Flint Road
Glendale, WI 53209

RELOCATE FIBER 1905020 FOSTER RD. TO BALLARD RD.	
DRAWN BY : PMG	DATE :
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HORIZONTAL SCALE (DWG & PROF) :	1" = 50'
VERTICAL SCALE (DWG) :	
VERTICAL SCALE (PROF) :	
MAP PROJECTION :	
DRAWING NUMBER :	5 OF 8

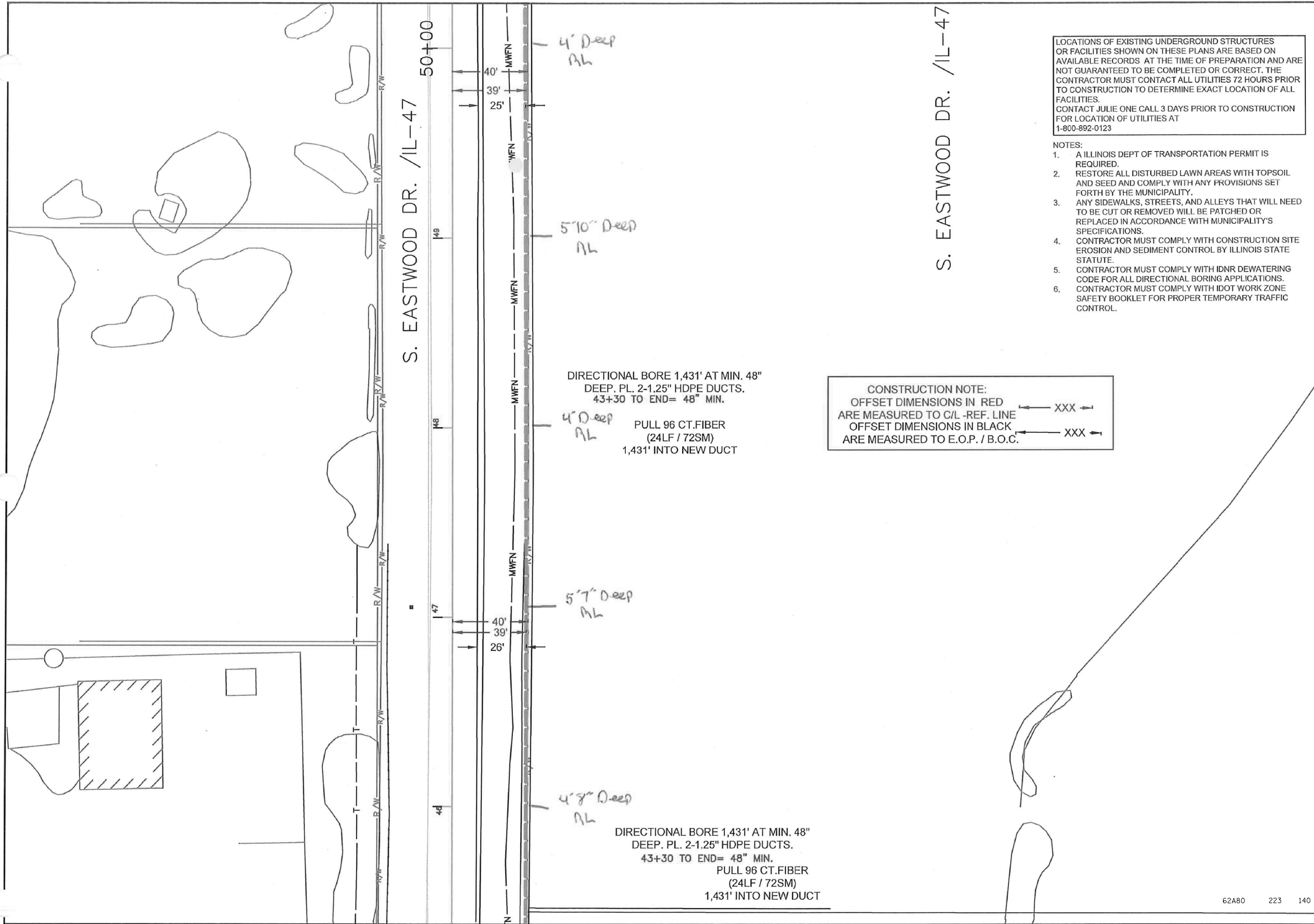
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County: MC HENRY	Township: GRAFTON	City:	Section:	Town:	Range:
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LOCATIONS OF EXISTING UNDERGROUND STRUCTURES OR FACILITIES SHOWN ON THESE PLANS ARE BASED ON AVAILABLE RECORDS. AT THE TIME OF PREPARATION AND ARE NOT GUARANTEED TO BE COMPLETED OR CORRECT. THE CONTRACTOR MUST CONTACT ALL UTILITIES 72 HOURS PRIOR TO CONSTRUCTION TO DETERMINE EXACT LOCATION OF ALL FACILITIES. CONTACT JULIE ONE CALL 3 DAYS PRIOR TO CONSTRUCTION FOR LOCATION OF UTILITIES AT 1-800-892-0123

- NOTES:
1. A ILLINOIS DEPT OF TRANSPORTATION PERMIT IS REQUIRED.
 2. RESTORE ALL DISTURBED LAWN AREAS WITH TOPSOIL AND SEED AND COMPLY WITH ANY PROVISIONS SET FORTH BY THE MUNICIPALITY.
 3. ANY SIDEWALKS, STREETS, AND ALLEYS THAT WILL NEED TO BE CUT OR REMOVED WILL BE PATCHED OR REPLACED IN ACCORDANCE WITH MUNICIPALITY'S SPECIFICATIONS.
 4. CONTRACTOR MUST COMPLY WITH CONSTRUCTION SITE EROSION AND SEDIMENT CONTROL BY ILLINOIS STATE STATUTE.
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 6. CONTRACTOR MUST COMPLY WITH IDOT WORK ZONE SAFETY BOOKLET FOR PROPER TEMPORARY TRAFFIC CONTROL.

CONSTRUCTION NOTE:
OFFSET DIMENSIONS IN RED
ARE MEASURED TO C/L -REF. LINE
OFFSET DIMENSIONS IN BLACK
ARE MEASURED TO E.O.P. / B.O.C.

SYMBOLS	
2 x 1.25" HDPE SDR11 Innerducts / Tracer Wire	House / Building
Station Mark	Existing Handhole
Splice	Existing Manhole
Storage Loop	Power Pole
Proposed Handhole	Water Valve / Meter
Proposed A/C/Dn Guy	Tel Pole
Bond to Ground	Gas Valve / Meter
Grounded	Transmission Pole
Fiber Locate Marker Post	Hydrant
Buried Cable Marker	Sign
New Aerial Fiber Cable	Mailbox
New Underground Fiber Cable-Flow	Street/Traffic Light
New Underground Fiber Cable-Bore	Tel Ped
Township Line	TV Ped
City Limits	Ele Ped/Transformer
R/W Line	Deciduous Tree
River/Stream	Evergreen Tree
C/L Road	
RR Tracks	
Fence	Exis City Comm Line
Oil Pipeline	Exis Tele
Gas Pipeline	Exis Aerial Fiber Cable
Water Line	Exis UG Fiber Cable
San. Sewer	Exis UG Power Line
SD	Exis CATV
Exis UG	Exis FiberOptic
Telephone	B.I.P. Black Iron Pipe
Exis CATV	G.I.P. Galvanized Iron Pipe
Exis FiberOptic	

MWFN CONTACT INFO

OSP ENGINEER: Patrick Graham
414-672-5808

EMERGENCY NOTIFICATION NUMBER: 1-866-831-1661

Call Before You Dig
JULIE
ILLINOIS ONE-CALL SYSTEM
Simply Call 811

CALL : (847) 963-0387
OR
TOLL FREE
(800) 892-0123
www.illinois1call.com

DRAWING DISCLAIMER
Facility locations are general in nature. MWFN will not be held accountable for the accuracy of the information provided on these drawings.

CONSTRUCTION

REVISIONS			
REV. NO.	DESCRIPTION	BY	DATE
CABLE FIBER COUNT: 96 CT FOC		CABLE DESCRIPTION	
CABLE REEL NO.			
SPlice to SPlice CABLE LENGTH:			
INNERDUCT & TYPE: 1.25" HDPE		PIPE & INNERDUCT PLACEMENT	
STEEL PIPE SIZE:			
PVC PIPE SIZE:			

MIDWESTFIBERNETWORKS

Midwest Fiber Networks, LLC

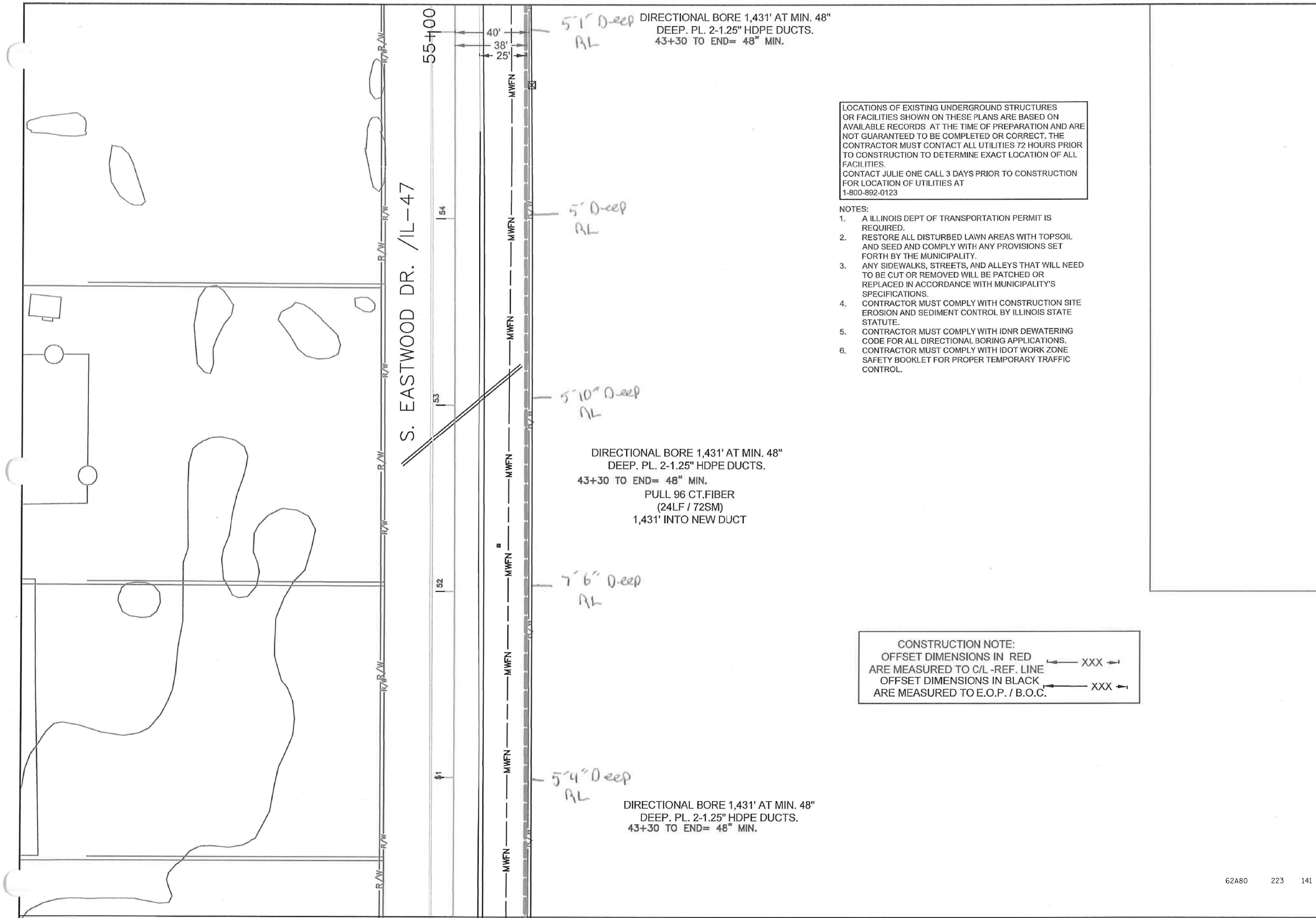
414.672.5612
6070 N Flint Road
Glendale, WI 53209

RELOCATE FIBER
1905020
FOSTER RD. TO BALLARD RD.

DRAWN BY : PMG	DATE :
CHECKED BY :	DATE :
APPROVED BY :	DATE :
APPROVED BY :	DATE :
HORIZONTAL SCALE (DWG & PROF) : 1" = 50'	
VERTICAL SCALE (DWG) :	
VERTICAL SCALE (PROF) :	
MAP PROJECTION :	
DRAWING NUMBER : 6 OF 8	

PROPRIETARY INFORMATION NOT FOR DISCLOSURE This set of plans contains confidential or proprietary information, and the recipient must not disclose, copy, re-create, or distribute the plans or the information contained therein, either directly or indirectly, to other entities or individuals without written or express permission from MWFN.

County: MC HENRY Township: GRAFTON City: Section: Town: Range:



DIRECTIONAL BORE 1,431' AT MIN. 48"
DEEP. PL. 2-1.25" HDPE DUCTS.
43+30 TO END= 48" MIN.

5' 10" Deep
RL

DIRECTIONAL BORE 1,431' AT MIN. 48"
DEEP. PL. 2-1.25" HDPE DUCTS.
43+30 TO END= 48" MIN.
PULL 96 CT.FIBER
(24LF / 72SM)
1,431' INTO NEW DUCT

7' 6" Deep
RL

5' 4" Deep
RL

DIRECTIONAL BORE 1,431' AT MIN. 48"
DEEP. PL. 2-1.25" HDPE DUCTS.
43+30 TO END= 48" MIN.

LOCATIONS OF EXISTING UNDERGROUND STRUCTURES OR FACILITIES SHOWN ON THESE PLANS ARE BASED ON AVAILABLE RECORDS AT THE TIME OF PREPARATION AND ARE NOT GUARANTEED TO BE COMPLETED OR CORRECT. THE CONTRACTOR MUST CONTACT ALL UTILITIES 72 HOURS PRIOR TO CONSTRUCTION TO DETERMINE EXACT LOCATION OF ALL FACILITIES.
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Proposed Handhole	Tel Pole
Proposed Anc/Dn Guy	Gas Valve / Meter
Bond to Ground	Transmission Pole
Grounded	Hydrant
Fiber Locals Marker Post	Sign
Buried Cable Marker	Mailbox
New Aerial Fiber Cable	Street/Traffic Light
New Underground Fiber Cable-Flow	Tel Ped
New Underground Fiber Cable-Bore	TV Ped
Township Line	Ele Ped/Transformer
City Limits	Deciduous Tree
R/W Line	Evergreen Tree
River/Stream	
C/L Road	
RR Tracks	
Fence	
Oil Pipeline	Exs City Comm Line
Gas Pipeline	Exs Tele
Water Line	Exs Aerial Fiber Cable
San. Sewer	Exs UG Fiber Cable
Storm Sewer	Exs UG Power Line
Exs UG Telephone	B.I.P. Block Iron Pipe
Exs CATV	G.I.P. Galvanized Iron Pipe
Exs FiberOptic	

MWFN CONTACT INFO

OSP ENGINEER: Patrick Graham
414-672-5606
EMERGENCY NOTIFICATION NUMBER: 1-866-831-1661

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TOLL FREE
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Simply Call 811

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CONSTRUCTION

REVISIONS			
REV. NO.	DESCRIPTION	BY	DATE
CABLE FIBER COUNT: 96 CT FOC		CABLE DESCRIPTION	
CABLE REEL NO.			
SPlice TO SPlice CABLE LENGTH:			
INNERDUCT & TYPE: 1.25" HDPE		PIPE & INNERDUCT PLACEMENT	
STEEL PIPE SIZE:			
PVC PIPE SIZE:			

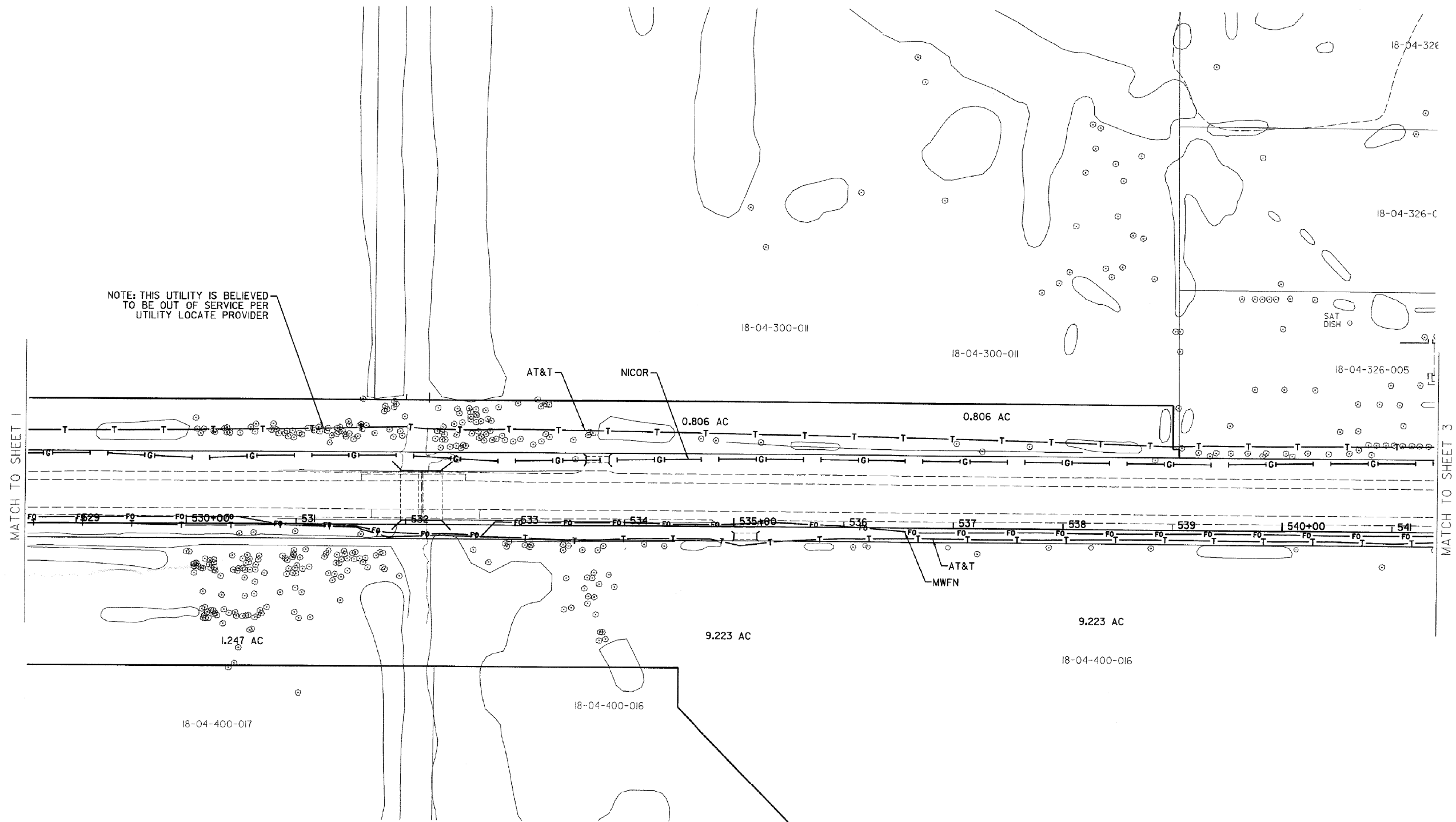
MIDWESTFIBERNETWORKS
Midwest Fiber Networks, LLC
414.672.5612
6070 N Flint Road
Glendale, WI 53209

RELOCATE FIBER
1905020
FOSTER RD. TO BALLARD RD.

DRAWN BY : PMG	DATE :
CHECKED BY :	DATE :
APPROVED BY :	DATE :
APPROVED BY :	DATE :
HORIZONTAL SCALE (DWG & PROF) : 1" = 50'	
VERTICAL SCALE (DWG) :	
VERTICAL SCALE (PROF) :	
MAP PROJECTION :	
DRAWING NUMBER : 7 OF 8	

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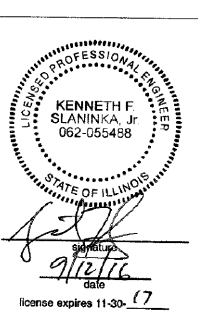
NOTE: THIS UTILITY IS BELIEVED TO BE OUT OF SERVICE PER UTILITY LOCATE PROVIDER

- TRAFFIC SIGNAL/LIGHTING
- AERIAL
- UNKNOWN
- OIL
- CABLE TV
- TELEPHONE
- GAS
- ELECTRIC
- WATER
- FORCE MAIN
- FIBER OPTIC
- CARDNO TEST HOLE
- END OF INFORMATION

UTILITY OWNERS	
AT&T - TELEPHONE	
COMED - ELECTRIC	
NICOR - GAS	
MWFN - FIBER OPTIC	
COMCAST - CABLE TV	

Utilities shown on these plans as depicted in the legend have been investigated by Cardno in accordance with SUE industry Standards. All other information shown has been provided to Cardno by others. Cardno's SUE field investigation was performed 8/17/16 through 9/02/16. Changes to utilities after 9/02/16 may have been made and therefore may result in variances from this plan. Consideration should be given to updating this plan if deemed advisable prior to final design and construction.

ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.



CLAASSEN, WHITE & ASSOCIATES, P.C.
LAND SURVEYORS
121 AIRPORT DRIVE, UNIT 1, JOLIET, ILLINOIS 60431
(815) 744-3720 clausenwhitecwa.com

Cardno Job No. IL09510725
SUE Plan Page: 2 of 5

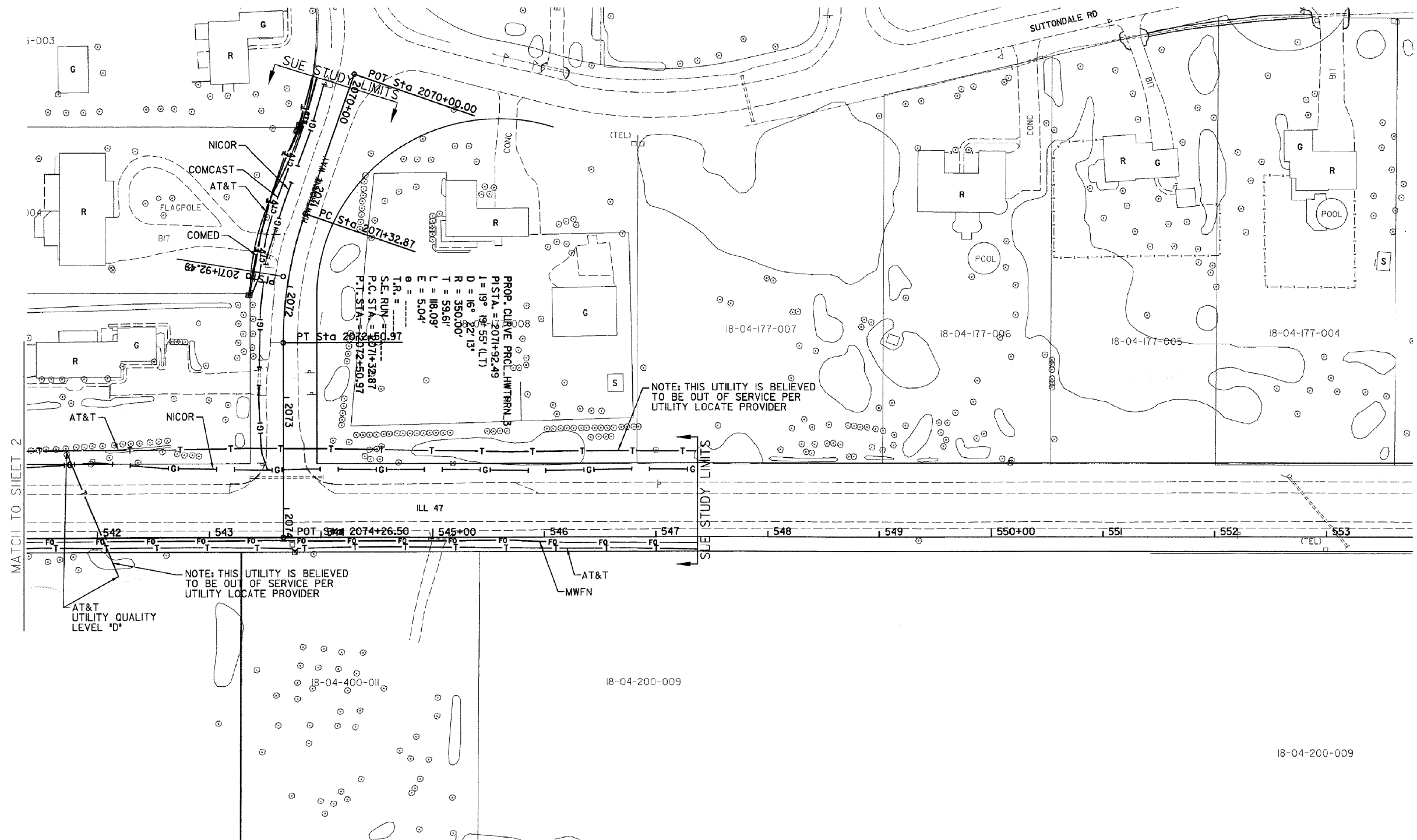
Utility Quality Level "A": Visually Verified Test Hole
Utility Quality Level "B": Designating/non Visually Verified Test Hole
Utility Quality Level "C": Research with Survey
Utility Quality Level "D": Records Research

DESIGNED	MS	REVISED
DRAWN	KLC	REVISED
CHECKED	KFS	REVISED
DATE	9/12/16	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 47 over Kishwaukee River
Crystal Lake, IL

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(105XB) B-R	McHenry	223	144
Contract No. 62A80				
FED. ROAD DIST. NO. ILLINOIS IDOT Project No.				

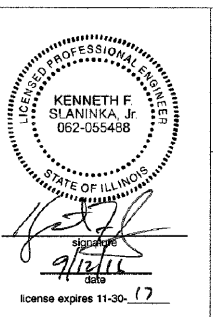


- TRAFFIC SIGNAL/LIGHTING
- AERIAL
- UNKNOWN
- OIL
- CABLE TV
- TELEPHONE
- GAS
- ELECTRIC
- WATER
- FORCE MAIN
- FIBER OPTIC
- CARDNO TEST HOLE
- END OF INFORMATION

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(815) 744-3720 clausenwhite@cwasurevey.com

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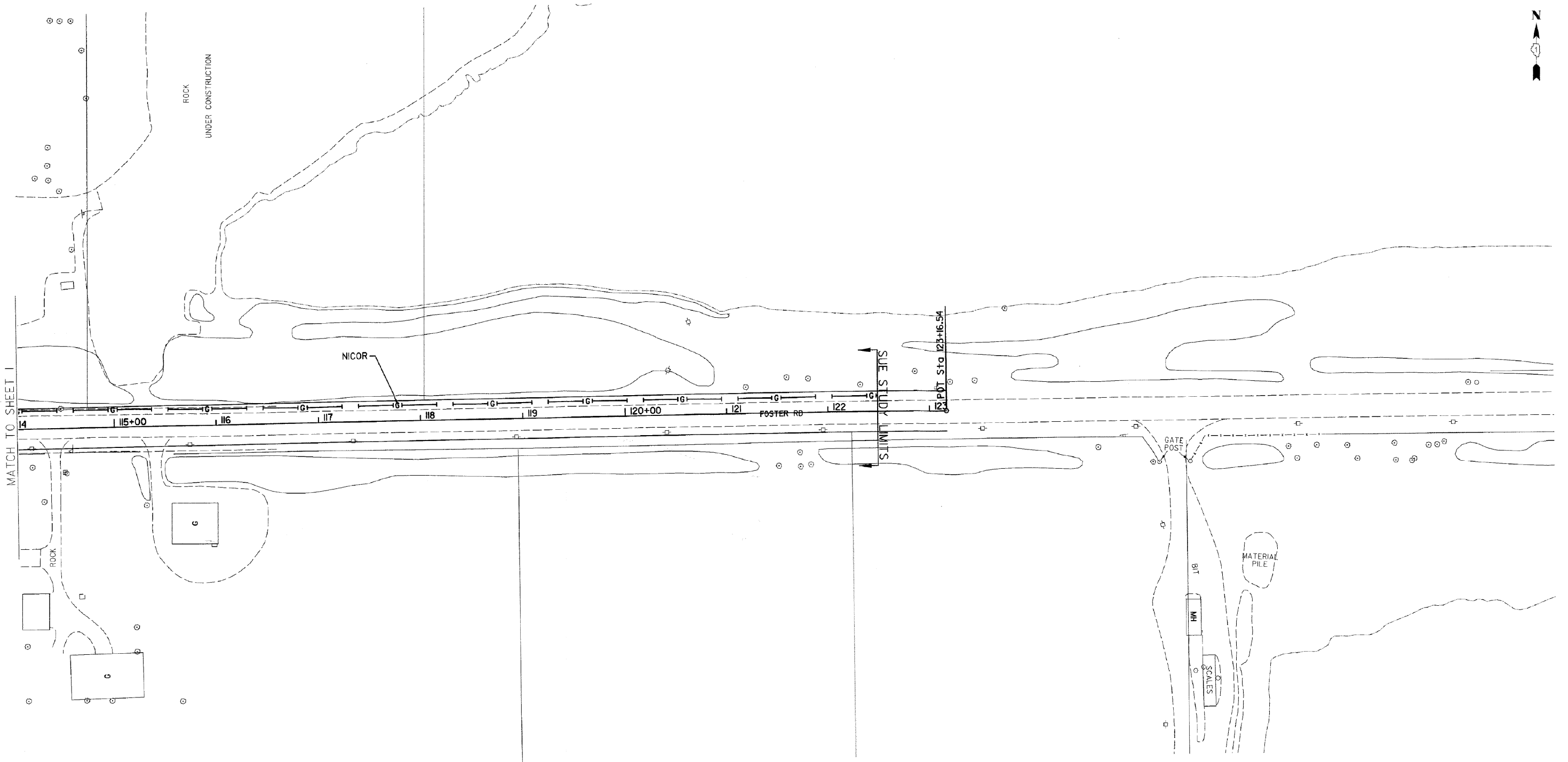
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DRAWN	KLC	REVISED
CHECKED	KFS	REVISED
DATE	9/12/16	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 47 over Kishwaukee River
Crystal Lake, IL

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(105XB) B-R	McHenry	223	145
Contract No. 62A80				
FED. ROAD DIST. NO. ILLINOIS DOT Project No.				

Cardno Job No. IL09510725
SUE Plan Pages: 3 of 5

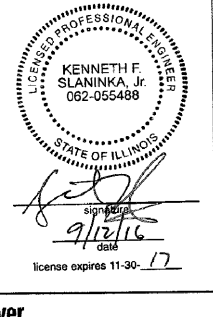


- TRAFFIC SIGNAL/LIGHTING
- AERIAL
- UNKNOWN
- OIL
- CABLE TV
- TELEPHONE
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- FORCE MAIN
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- END OF INFORMATION

UTILITY OWNERS		
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MWEN - FIBER OPTIC		
COMCAST - CABLE TV		

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Cardno Job No. IL09510725
SUE Plan Page: 4 of 5

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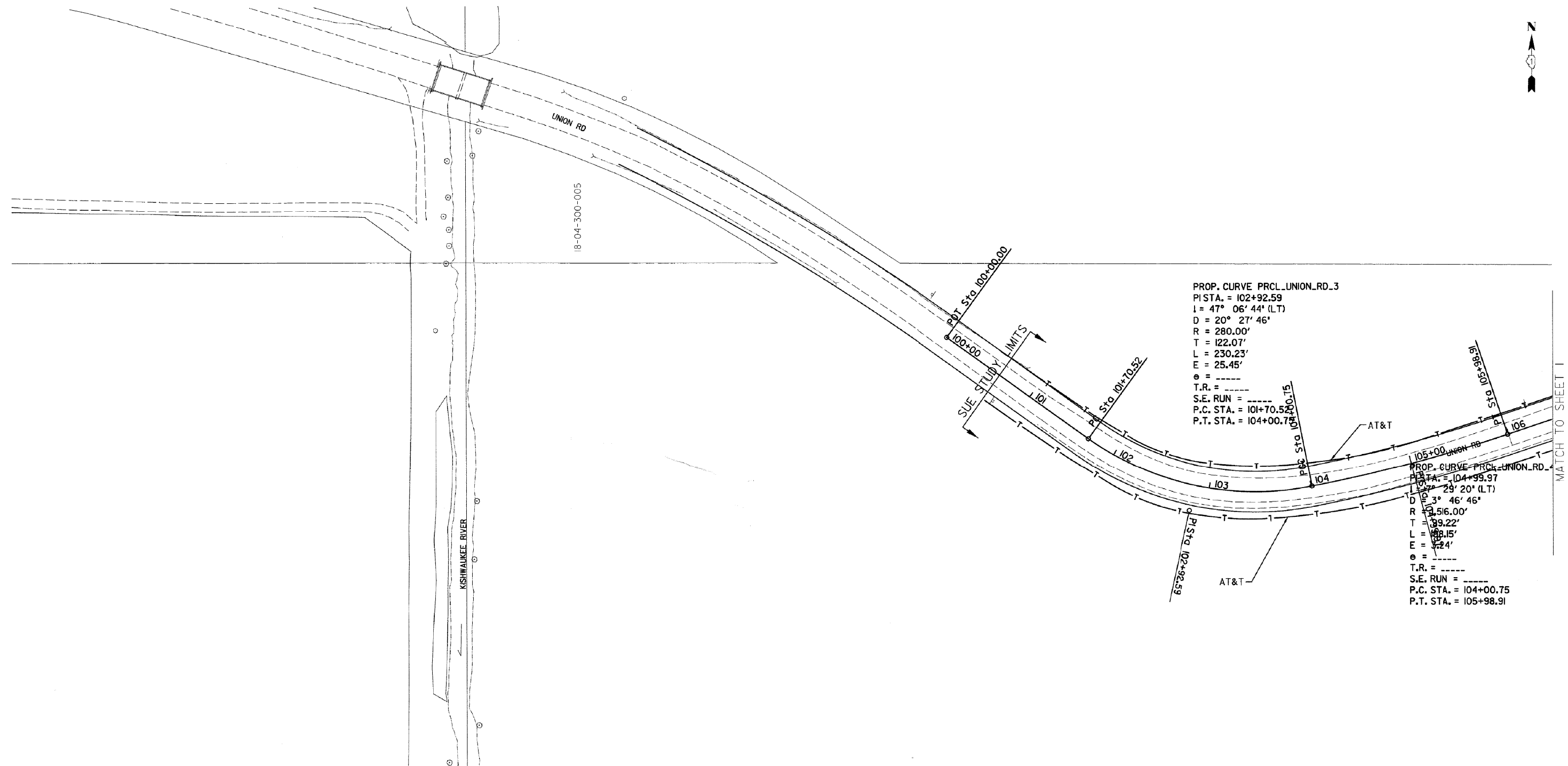
DESIGNED	MS	REVISED
DRAWN	KLC	REVISED
CHECKED	KFS	REVISED
DATE	9/12/16	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 47 over Kishwaukee River
Crystal Lake, IL

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(05XB) B-R	McHenry	223	146

FED. ROAD DIST. NO.	ILLINOIS	Contract No. 62A80	DOT Project No.
---------------------	----------	--------------------	-----------------



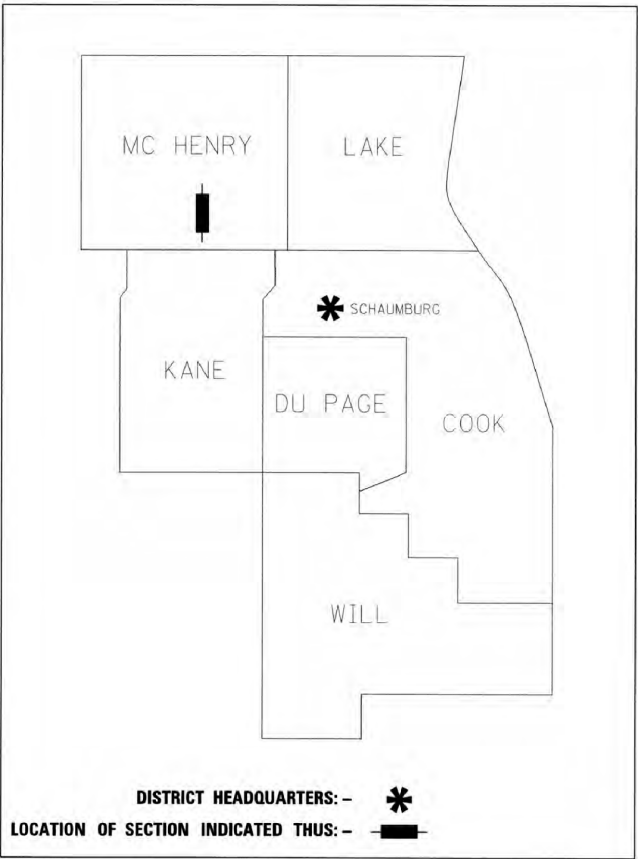
--- -- -- -- -- TRAFFIC SIGNAL/LIGHTING --- A --- A --- AERIAL --- UNKNOWN --- OIL --- CTV --- CTV --- CABLE TV --- T --- T --- TELEPHONE --- G --- G --- GAS --- E --- E --- ELECTRIC --- W --- W --- WATER --- F --- F --- FORCE MAIN --- FO --- FO --- FIBER OPTIC --- EOI --- END OF INFORMATION	UTILITY OWNERS AT&T - TELEPHONE COMED - ELECTRIC NICOR - GAS NWFW - FIBER OPTIC COMCAST - CABLE TV	Utilities shown on these plans as depicted in the legend have been investigated by Cardno in accordance with SUE Industry Standards. All other information shown has been provided to Cardno by others. Cardno's SUE field investigation was performed 8/17/16 through 9/02/16. Changes to utilities after 9/02/16 may have been made and therefore may result in variances from this plan. Consideration should be given to updating this plan if deemed advisable prior to final design and construction.	ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE. SCALE IN FEET	9/12/16 date license expires 11-30-17	CLAASSEN, WHITE & ASSOCIATES, P.C. LAND SURVEYORS 121 AIRPORT DRIVE, UNIT 1, JOLETT, ILLINOIS 60431 (815) 744-3720 clausenwhite@cwawhite.com																											
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<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>DESIGNED</td> <td>MS</td> <td>REVISED</td> <td></td> </tr> <tr> <td>DRAWN</td> <td>KLC</td> <td>REVISED</td> <td></td> </tr> <tr> <td>CHECKED</td> <td>KFS</td> <td>REVISED</td> <td></td> </tr> <tr> <td>DATE</td> <td>9/12/16</td> <td>REVISED</td> <td></td> </tr> </table>			DESIGNED	MS	REVISED		DRAWN	KLC	REVISED		CHECKED	KFS	REVISED		DATE	9/12/16	REVISED		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>F.A.P. RTE.</td> <td>SECTION</td> <td>COUNTY</td> <td>TOTAL SHEETS</td> <td>SHEET NO.</td> </tr> <tr> <td>326</td> <td>(105XB) B-R</td> <td>McHenry</td> <td>223</td> <td>147</td> </tr> </table>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	326	(105XB) B-R	McHenry	223	147	Contract No. 62A80 FED. ROAD DIST. NO. ILLINOIS 100T Project No.	
DESIGNED	MS	REVISED																														
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

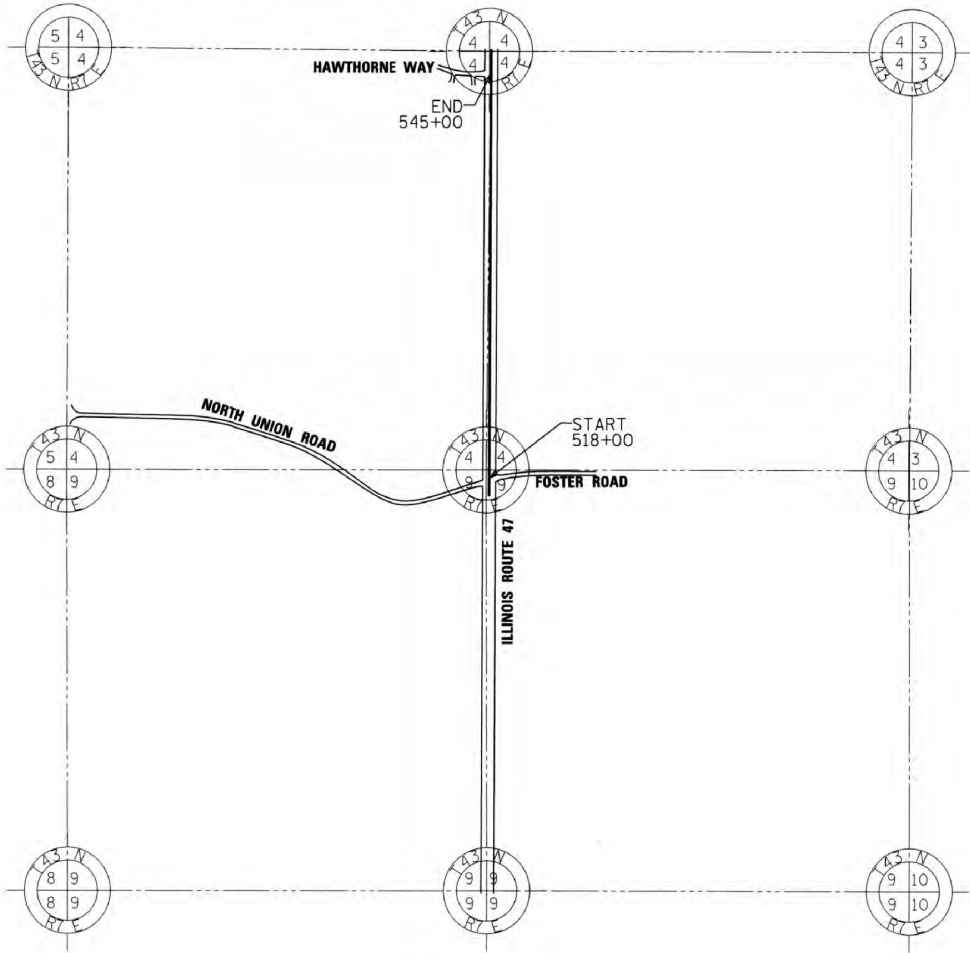
PLAT OF HIGHWAYS

ROUTE: ILLINOIS ROUTE 47 AT KISHWAUKEE RIVER
SECTION:
COUNTY: MCHENRY
LIMITS: NORTH UNION ROAD TO HAWTHORNE WAY
JOB NO.: R-91-008-15

INDEX TABLE			
PARCEL NUMBER	OWNER	SHEET NUMBER	PROPERTY ACQUIRED BY
1MX0001	KATHLEEN P. JENSEN, TRUSTEE OF THE KATHLEEN P. JENSEN 2009 TRUST UNDER DECLARATION OF TRUST DATED OCTOBER 21, 2009	2	
1MX0002	ROUTE 47 5.54 SERIES, BAKLEY DEVELOPMENT LLC, AN ILLINOIS LIMITED LIABILITY COMPANY	2	
1MX0003	OZINGA CONCRETE PRODUCTS, INC., AN ILLINOIS CORPORATION	3	
1MX0004	JANUSZ LANGIEWICZ AS TRUSTEE UNDER THE JANUSZ LANGIEWICZ REVOCABLE TRUST DATED FEBRUARY 15, 2000 AND JANINA LANGIEWICZ AS TRUSTEE UNDER THE JANINA LANGIEWICZ REVOCABLE TRUST DATED FEBRUARY 15, 2000	3, 4	
1MX0005A 1MX0005B	CHICAGO TITLE LAND COMPANY AS TRUSTEE UNDER TRUST AGREEMENT DATED SEPTEMBER 17, 2007 KNOWN AS TRUST NO. 8002349418	3, 4	
1MX0006TEA 1MX0006TEB	LAKEWOOD, IL 2003 NO. 1, LLC	2, 4	
1MX0007TE	JENIFER BALZANO	4	



PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS



LOCATION MAP

GROSS LENGTH = 2700' FT. = 0.511 MILES
NET LENGTH = 2700' FT. = 0.511 MILES

62A80 223 148



Mackie Consultants, LLC
9575 W. Higgins Road, Suite 500
Rosemont, IL 60018
(847)696-1400
www.mackieconsult.com

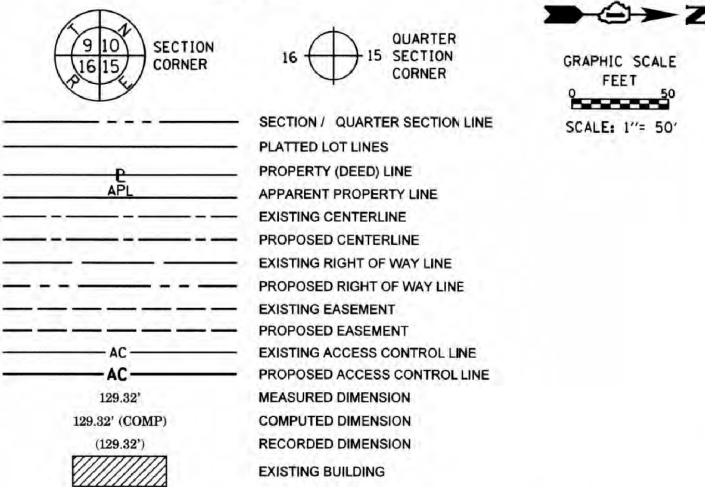
IDOT USE ONLY

DATE	BY
06-29-18	KMF
06-29-18	RPO
07-10/11-18	SMC

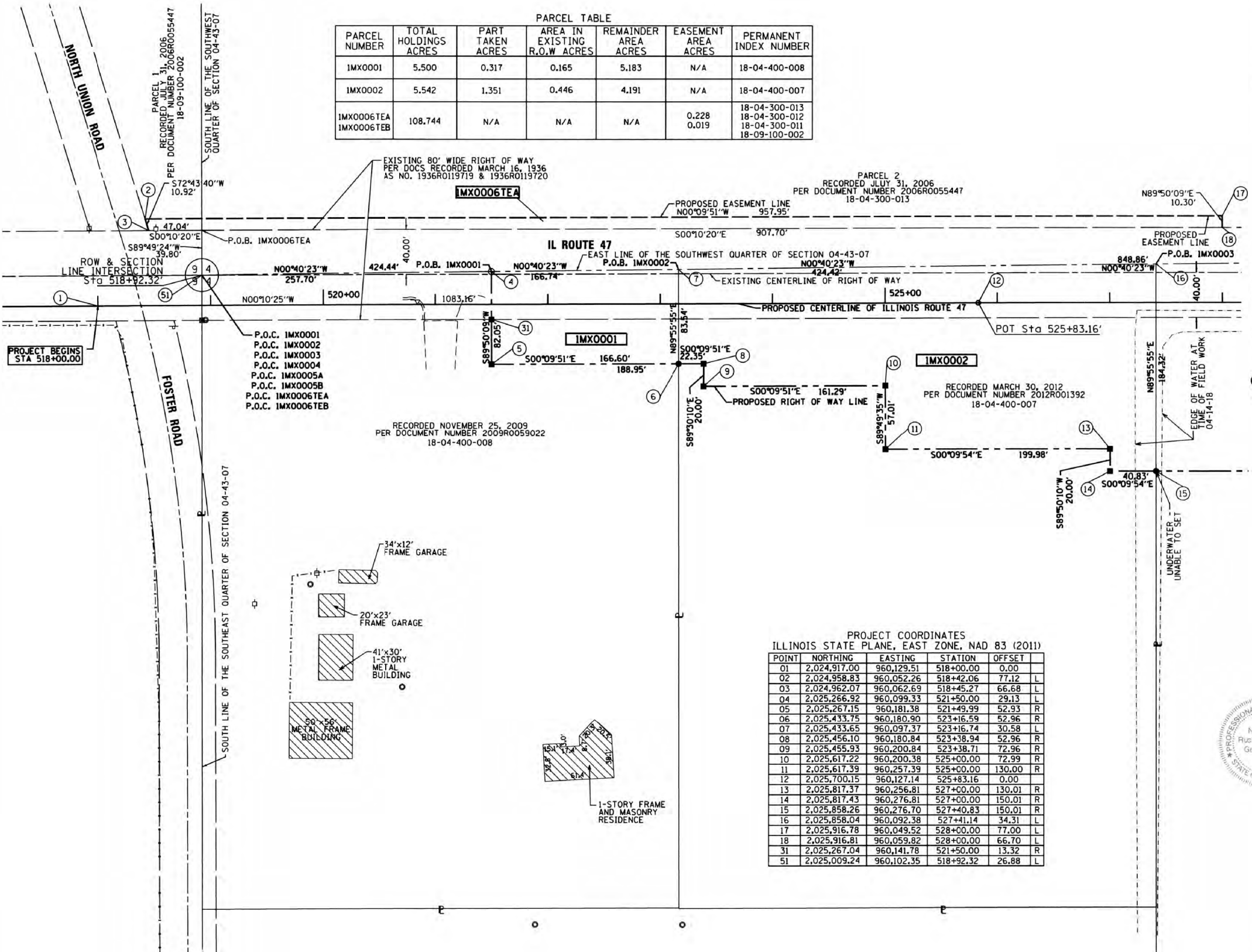
DRAWN	APPROVED	REVISED

SHEET 1	COVER & INDEX SHEET
SHEET 2	IL ROUTE 47 - STA. 518+00 TO 528+00
SHEET 3	IL ROUTE 47 - STA. 527+00 TO 534+50
SHEET 4	IL ROUTE 47 - STA. 534+00 TO 545+00
SHEET 5	TOTAL HOLDINGS

LEGEND



PARCEL TABLE						
PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	PERMANENT INDEX NUMBER
1MX0001	5.500	0.317	0.165	5.183	N/A	18-04-400-008
1MX0002	5.542	1.351	0.446	4.191	N/A	18-04-400-007
1MX0006TEA 1MX0006TEB	108.744	N/A	N/A	N/A	0.228 0.019	18-04-300-013 18-04-300-012 18-04-300-011 18-09-100-002



DATE	BY
06-28-18	KMF
06-28-18	RPO
07-10-11-18	SMC
01-10-20	KMF
DRAWN	
APPROVED	
REVISED	

BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD83 (2011 ADJUSTMENT), EAST ZONE.

IRON PIPE OR ROD FOUND 5/8" MAG. NAIL SET
CUT CROSS FOUND OR SET 5/8" REBAR SET

STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 667101-02 (TO BE SET BY OTHERS)

RIGHT OF WAY STAKING PROPOSED TO BE SET

NOTES:
1) BEARINGS SHOWN HEREON ARE BASED ON ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE, NAD 83.
2) COORDINATES SHOWN ARE PROJECT ("GROUND").
3) ALL DISTANCES SHOWN ARE "GROUND".
4) THE COMBINED FACTOR USED FOR THIS PROJECT IS 0.99997568.
5) TO CONVERT PROJECT COORDINATES TO STATE PLANE COORDINATES: TAKE PROJECT NORTHING AND EASTING, MULTIPLY BY THE COMBINED FACTOR.
6) EXISTING 80' WIDE RIGHT OF WAY ALONG ROUTE 47 ESTABLISHED BY DEDICATION OF RIGHT OF WAY RECORDED MARCH 16, 1936 AS DOCUMENT NO. 1936R0119719 & 1936R0119720

STATE OF ILLINOIS)
COUNTY OF COOK)

PROJECT COORDINATES ILLINOIS STATE PLANE, EAST ZONE, NAD 83 (2011)					
POINT	NORTHING	EASTING	STATION	OFFSET	
01	2,024,917.00	960,129.51	518+00.00	0.00	
02	2,024,958.83	960,052.26	518+42.06	77.12	L
03	2,024,962.07	960,062.69	518+45.27	66.68	L
04	2,025,266.92	960,099.33	521+50.00	29.13	L
05	2,025,267.15	960,181.38	521+49.99	52.93	R
06	2,025,433.75	960,180.90	523+16.59	52.96	R
07	2,025,433.65	960,097.37	523+16.74	30.58	L
08	2,025,456.10	960,180.84	523+38.94	52.96	R
09	2,025,455.93	960,200.84	523+38.71	72.96	R
10	2,025,617.22	960,200.38	525+00.00	72.99	R
11	2,025,617.39	960,257.39	525+00.00	130.00	R
12	2,025,700.15	960,127.14	525+83.16	0.00	
13	2,025,817.37	960,256.81	527+00.00	130.01	R
14	2,025,817.43	960,276.81	527+00.00	150.01	R
15	2,025,858.26	960,276.70	527+40.83	150.01	R
16	2,025,858.04	960,092.38	527+41.14	34.31	L
17	2,025,916.78	960,049.52	528+00.00	77.00	L
18	2,025,916.81	960,059.82	528+00.00	66.70	L
31	2,025,267.04	960,141.78	521+50.00	13.32	R
51	2,025,009.24	960,102.35	518+92.32	26.88	L

THIS IS TO CERTIFY THAT WE, MACKIE CONSULTANTS, LLC, AN ILLINOIS PROFESSIONAL DESIGN FIRM NO. 184-002694, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 4, AND 9, TOWNSHIP 43 NORTH, RANGE 7 EAST OF THE THIRD PRINCIPAL MERIDIAN, McHENRY COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT ROSEMONT, ILLINOIS THIS 10TH DAY OF JANUARY, 2020 A.D.

Russell P. Ory
RUSSELL P. ORY
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-002753
LICENSE EXPIRES: NOVEMBER 30, 2020
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.



Mackie Consultants, LLC
9575 W. Higgins Road, Suite 500
Rosemont, IL 60018
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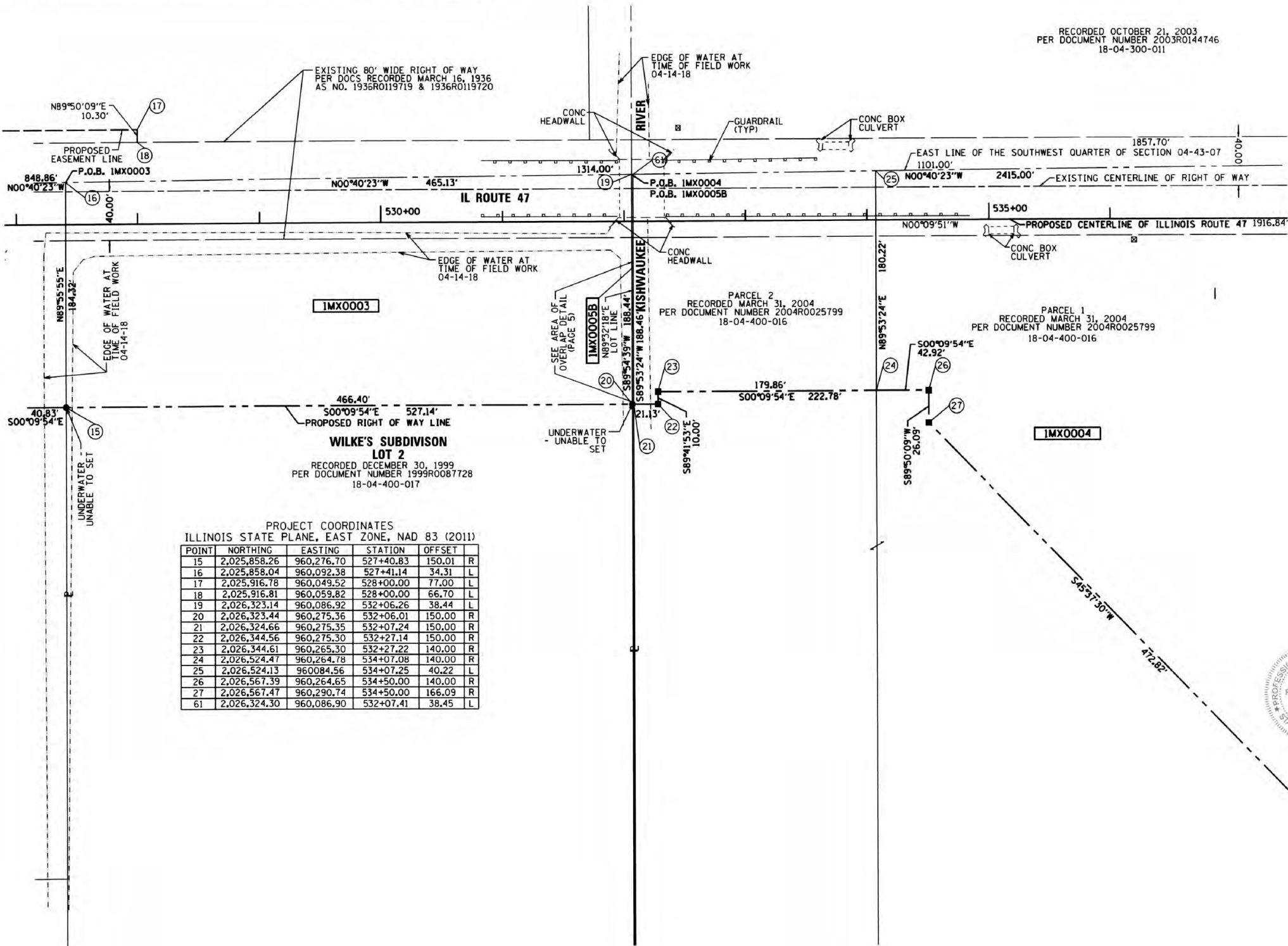
PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
ILLINOIS ROUTE 47

LIMITS: UNION TO HAWTHORN COUNTY: McHENRY
SECTION: 4 & 9 - T43N - R7E JOB NO.: R-91-008-15
STA. 518+00 TO STA. 528+00
SCALE: SHEET 2 OF 5 SHEETS

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

IDOT USE ONLY

PARCEL TABLE						
PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	PERMANENT INDEX NUMBER
1MX0003	21.677	1.993	0.532	19.684	N/A	18-04-400-017
1MX0004	50.624	10.536	1.428	40.088	N/A	18-04-400-016
1MX0005A 1MX0005B	28.905	0.268 0.005AC/224SF	0.030 0.001AC/60SF	28.632	N/A	18-04-400-011
1MX0006TEA 1MX0006TEB	108.744	N/A	N/A	N/A	0.228 0.019	18-04-300-013 18-04-300-012 18-04-300-011 18-09-100-002



PROJECT COORDINATES ILLINOIS STATE PLANE, EAST ZONE, NAD 83 (2011)				
POINT	NORTHING	EASTING	STATION	OFFSET
15	2,025,858.26	960,276.70	527+40.83	150.01 R
16	2,025,858.04	960,092.38	527+41.14	34.31 L
17	2,025,916.78	960,049.52	528+00.00	77.00 L
18	2,025,916.81	960,059.82	528+00.00	66.70 L
19	2,026,323.14	960,086.92	532+06.26	38.44 L
20	2,026,323.44	960,275.36	532+06.01	150.00 R
21	2,026,324.66	960,275.35	532+07.24	150.00 R
22	2,026,344.56	960,275.30	532+27.14	150.00 R
23	2,026,344.61	960,265.30	532+27.22	140.00 R
24	2,026,524.47	960,264.78	534+07.08	140.00 R
25	2,026,524.13	960,084.56	534+07.25	40.22 L
26	2,026,567.39	960,264.65	534+50.00	140.00 R
27	2,026,567.47	960,290.74	534+50.00	166.09 R
61	2,026,324.30	960,086.90	532+07.41	38.45 L

LEGEND

SECTION CORNER
QUARTER SECTION CORNER
GRAPHIC SCALE
FEET
SCALE: 1" = 50'

SECTION / QUARTER SECTION LINE
PLATTED LOT LINES
PROPERTY (DEED) LINE
APPROVED PROPERTY LINE
EXISTING CENTERLINE
PROPOSED CENTERLINE
EXISTING RIGHT OF WAY LINE
PROPOSED RIGHT OF WAY LINE
EXISTING EASEMENT
PROPOSED EASEMENT
EXISTING ACCESS CONTROL LINE
PROPOSED ACCESS CONTROL LINE
MEASURED DIMENSION
COMPUTED DIMENSION
RECORDED DIMENSION
EXISTING BUILDING

BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD83 (2011 ADJUSTMENT), EAST ZONE.

IRON PIPE OR ROD FOUND
CUT CROSS FOUND OR SET
STAKING OF PROPOSED RIGHT OF WAY
STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS
PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 667101-02 (TO BE SET BY OTHERS)
RIGHT OF WAY STAKING PROPOSED TO BE SET

NOTES:
1) BEARINGS SHOWN HEREON ARE BASED ON ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE, NAD 83.
2) COORDINATES SHOWN ARE PROJECT ("GROUND").
3) ALL DISTANCES SHOWN ARE "GROUND".
4) THE COMBINED FACTOR USED FOR THIS PROJECT IS 0.99997568.
5) TO CONVERT PROJECT COORDINATES TO STATE PLANE COORDINATES, TAKE PROJECT NORTHING AND EASTING, MULTIPLY BY THE COMBINED FACTOR.
6) EXISTING 80' WIDE RIGHT OF WAY ALONG ROUTE 47 ESTABLISHED BY DEDICATION OF RIGHT OF WAY RECORDED MARCH 16, 1936 AS DOCUMENT NO. 1936R0119719 & 1936R0119720

STATE OF ILLINOIS
COUNTY OF COOK

THIS IS TO CERTIFY THAT WE, MACKIE CONSULTANTS, LLC, AN ILLINOIS PROFESSIONAL DESIGN FIRM NO. 184-002694, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 4, AND 9, TOWNSHIP 43 NORTH, RANGE 7 EAST OF THE THIRD PRINCIPAL MERIDIAN, McHENRY COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT ROSEMONT, ILLINOIS THIS 10TH DAY OF JANUARY, 2020 A.D.

Russell P. Orly
RUSSELL P. ORY
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-002753
LICENSE EXPIRES: NOVEMBER 30, 2020
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

Mackie Consultants, LLC
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Rosemont, IL 60018
(847)696-1400
www.mackieconsult.com

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
ILLINOIS ROUTE 47

LIMITS: UNION TO HAWTHORN COUNTY: McHENRY
SECTION: 4 & 9 - T43N - R7E JOB NO.: R-91-008-15
STA. 527+00 TO STA. 534+50
SCALE: SHEET 3 OF 5 SHEETS

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAMBURG, ILLINOIS 60196

62A80 223 150
IDOT USE ONLY

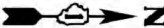
LEGEND



SECTION CORNER



QUARTER SECTION CORNER



GRAPHIC SCALE
FEET
0 50
SCALE: 1" = 50'

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	PERMANENT INDEX NUMBER
1MX0004	50.624	10.536	1.428	40.088	N/A	18-04-400-016
1MX0005A 1MX0005B	28.905	0.268 0.005AC/224SF	0.030 0.001AC/60SF	28.632	N/A	18-04-400-011
1MX0006TEA 1MX0006TEB	108.744	N/A	N/A	N/A	0.228 0.019	18-04-300-013 18-04-300-012 18-04-300-011 18-09-100-002
1MX0007TE	1.481	N/A	N/A	N/A	0.051	18-04-326-005

ANDOVER ACRES UNIT 3
LOT 4 BLOCK 4
RECORDED JUNE 28, 1976
PER DOCUMENT NUMBER 667148
18-04-326-004

ANDOVER ACRES UNIT 3
LOT 5 BLOCK 4
RECORDED JUNE 28, 1976
PER DOCUMENT NUMBER 667148
18-04-326-005

RECORDED OCTOBER 21, 2003
PER DOCUMENT NUMBER 2003R0144746
18-04-300-011

PARCEL 1
RECORDED MARCH 31, 2004
PER DOCUMENT NUMBER 2004R0025799
18-04-400-016

PARCEL 1
RECORDED MARCH 31, 2004
PER DOCUMENT NUMBER 2004R0025799
18-04-400-016

PROJECT COORDINATES ILLINOIS STATE PLANE, EAST ZONE, NAD 83 (2011)				
POINT	NORTHING	EASTING	STATION	OFFSET
26	2,026,567.39	960,264.65	534+50.00	140.00 R
27	2,026,567.47	960,290.74	534+50.00	166.09 R
28	2,026,866.80	960,056.97	537+50.00	66.83 L
29	2,026,866.79	960,051.80	537+50.00	72.00 L
30	2,026,898.14	960,628.71	537+79.70	505.00 R
31	2,025,267.04	960,141.78	521+50.00	13.33 R
32	2,025,001.15	957,479.31	518+92.18	2,649.94 L
33	2,027,024.59	960,051.34	539+07.80	72.00 L
34	2,027,024.68	960,056.49	539+07.88	66.85 L
35	2,027,425.13	960,627.20	543+06.69	505.00 R
36	2,027,446.05	960,627.14	543+27.61	505.00 R
37	2,027,424.18	960,135.29	543+07.15	13.09 R
38	2,027,424.06	960,073.98	543+07.21	48.22 L
39	2,027,455.30	960,050.11	543+38.52	72.00 L
40	2,027,455.32	960,055.20	543+38.52	66.91 L
41	2,027,445.37	960,135.23	543+28.34	13.09 R
42	2,027,445.28	960,073.73	543+28.43	48.41 L
43	2,027,616.99	960,121.65	545+00.00	0.00

62A80 223 151

IDOT USE ONLY

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
ILLINOIS ROUTE 47

LIMITS: UNION TO HAWTHORN COUNTY: McHENRY
SECTION: 4 & 9 - T43N - R7E JOB NO.: R-91-008-15
STA. 534+00 TO STA. 545+00
SCALE: SHEET 4 OF 5 SHEETS

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAMBURG, ILLINOIS 60196

REVISION DATE: / / REVISION MADE BY:

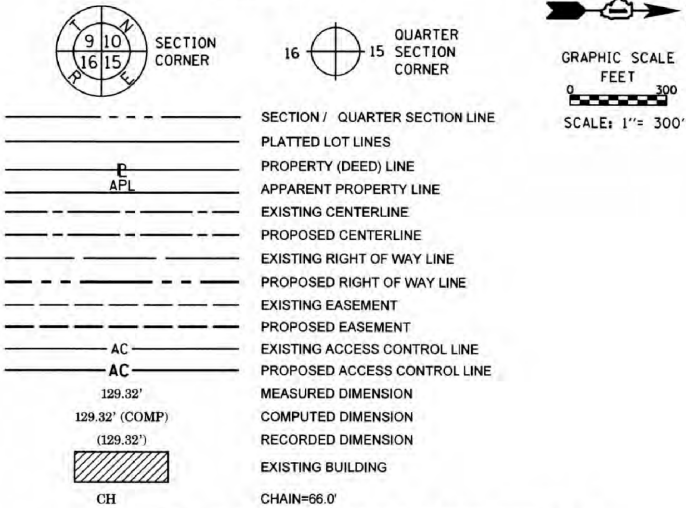


DATED AT ROSEMONT, ILLINOIS THIS 10TH DAY OF JANUARY, 2020 A.D.
RUSSELL P. ORY
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-002753
LICENSE EXPIRES: NOVEMBER 30, 2020
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

Mackie Consultants, LLC
9575 W. Higgins Road, Suite 500
Rosemont, IL 60018
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www.mackieconsult.com

BY	DATE	DATE	DATE	DATE
KMF	06-28-18	KMF	06-28-18	KMF
RPO	06-28-18	RPO	06-28-18	RPO
SMC	07-10/11-18	SMC	07-10/11-18	SMC
KMF	01-10-20	KMF	01-10-20	KMF

LEGEND



BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD83 (2011 ADJUSTMENT), EAST ZONE.

- IRON PIPE OR ROD FOUND
- CUT CROSS FOUND OR SET
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 667101-02 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET

NOTES:
1) BEARINGS SHOWN HEREON ARE BASED ON ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE, NAD 83.
2) COORDINATES SHOWN ARE "GROUND".
3) ALL DISTANCES SHOWN ARE "GROUND".
4) THE COMBINED FACTOR USED FOR THIS PROJECT IS 0.99997568.
5) TO CONVERT PROJECT COORDINATES TO STATE PLANE COORDINATES: TAKE PROJECT NORTHING AND EASTING, MULTIPLY BY THE COMBINED FACTOR.
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STATE OF ILLINOIS)
COUNTY OF COOK)

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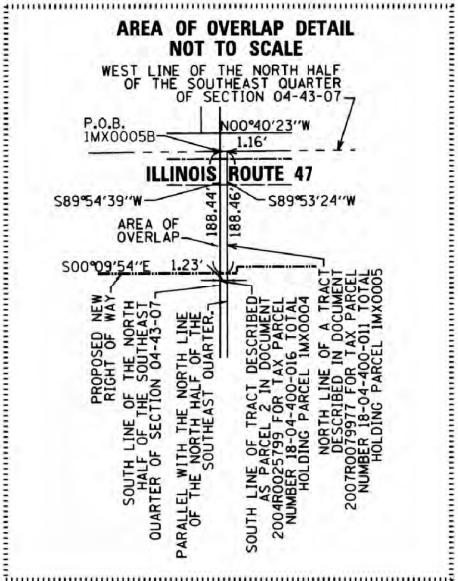
PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
ILLINOIS ROUTE 47

LIMITS: UNION TO HAWTHORN COUNTY: McHENRY
SECTION: 4 & 9 - T43N - R7E JOB NO.: R-91-008-15
STA. TO STA.
SCALE: 1"=300' SHEET 5 OF 5 SHEETS

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

PROJECT COORDINATES
ILLINOIS STATE PLANE,
EAST ZONE, NAD 83 (2011)

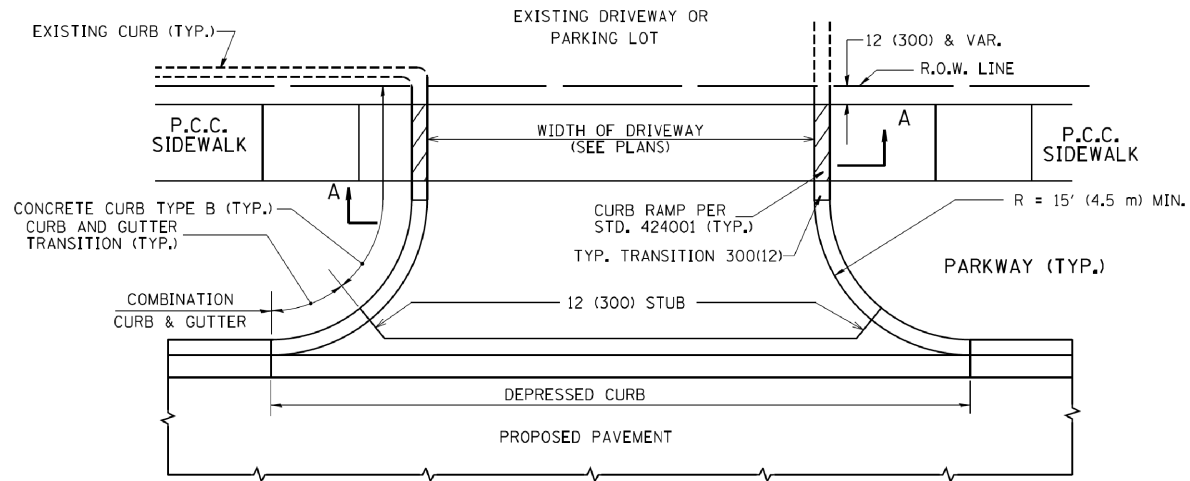
POINT	NORTHING	EASTING
32	2,025,001.15	957,479.31
50	2,025,012.36	962,725.41
51	2,025,009.24	960,102.35
52	2,022,378.13	960,111.14
53	2,022,374.75	957,483.16
54	2,027,637.05	960,071.48
55	2,027,642.11	962,707.62
56	2,030,273.98	957,420.79
57	2,027,632.01	957,449.72
58	2,030,285.99	960,040.36
59	2,030,295.41	962,677.09
60	2,022,381.51	962,741.34



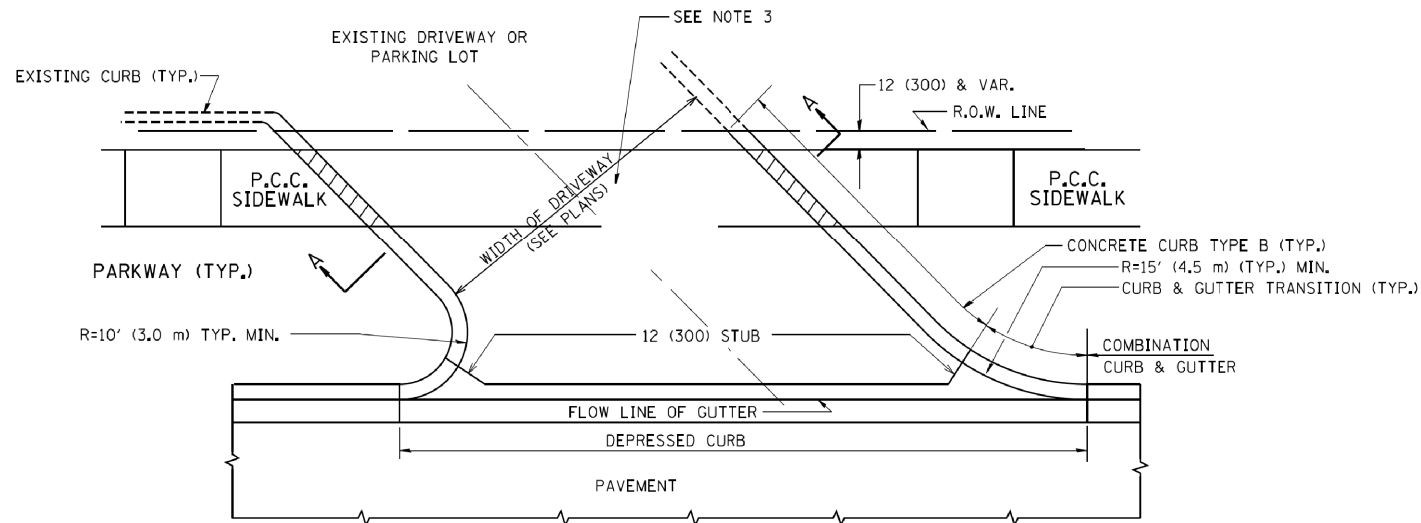
CURVE TABLE

CURVE	RADIUS	ARC LENGTH
C1	1022.20'	83.25'
C2	434.71'	90.39'
C3	153.62'	58.52'
C4	124.95'	92.38'
C5	65.60'	75.67'
C6	66.25'	64.48'
C7	236.71'	86.73'
C8	647.02'	156.56'
C9	698.30'	139.08'

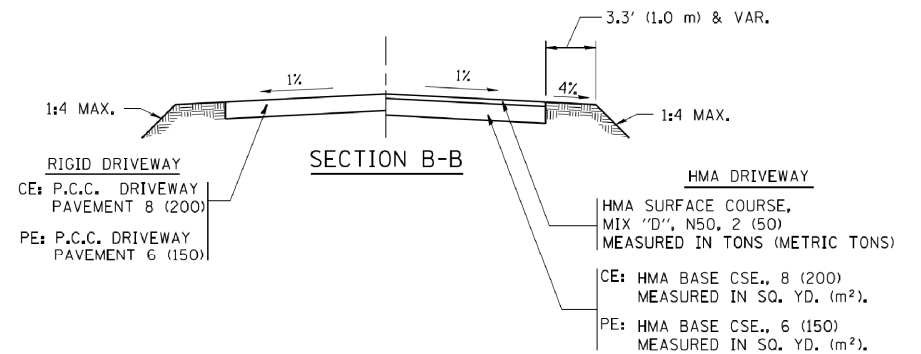
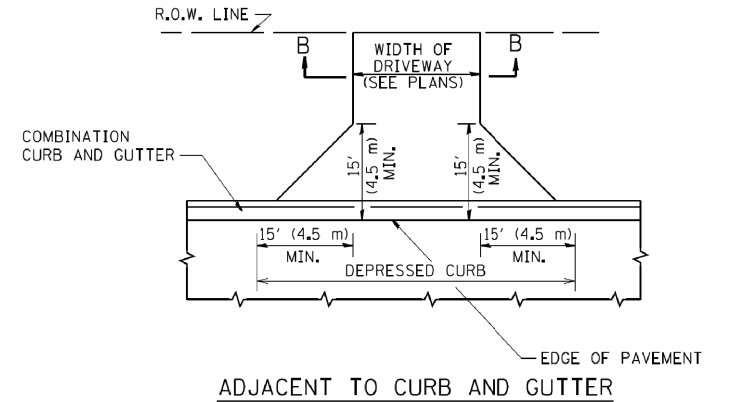
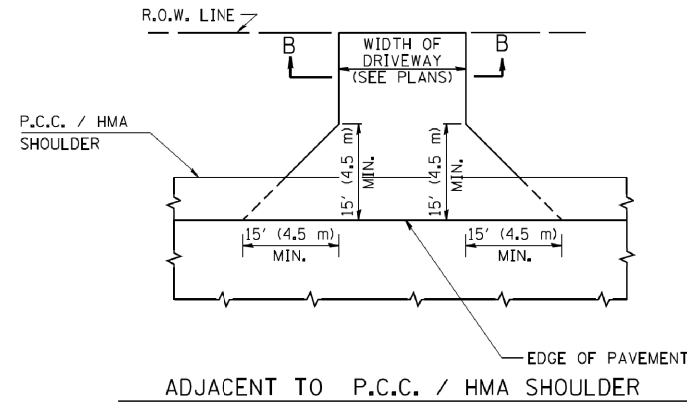
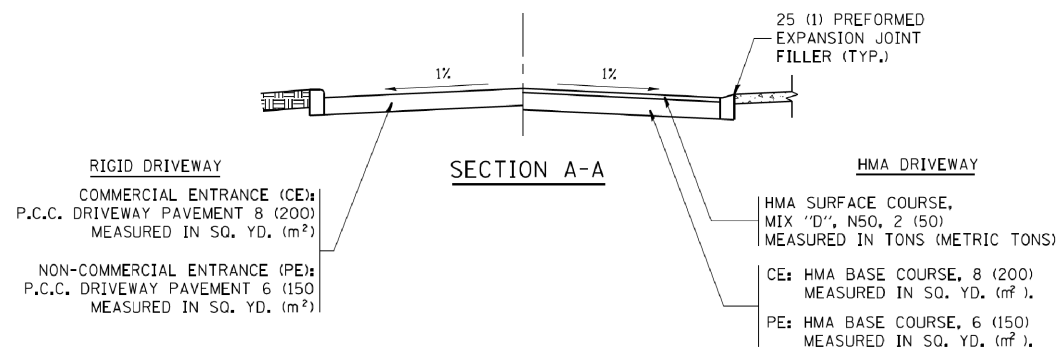
DATE	BY
06-28-18	KMF
06-28-18	RPO
07-10-18	SMC
01-10-20	KMF



WITH CONCRETE CURB, TYPE B



WITH CONCRETE CURB, TYPE B



GENERAL NOTES:

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.

COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

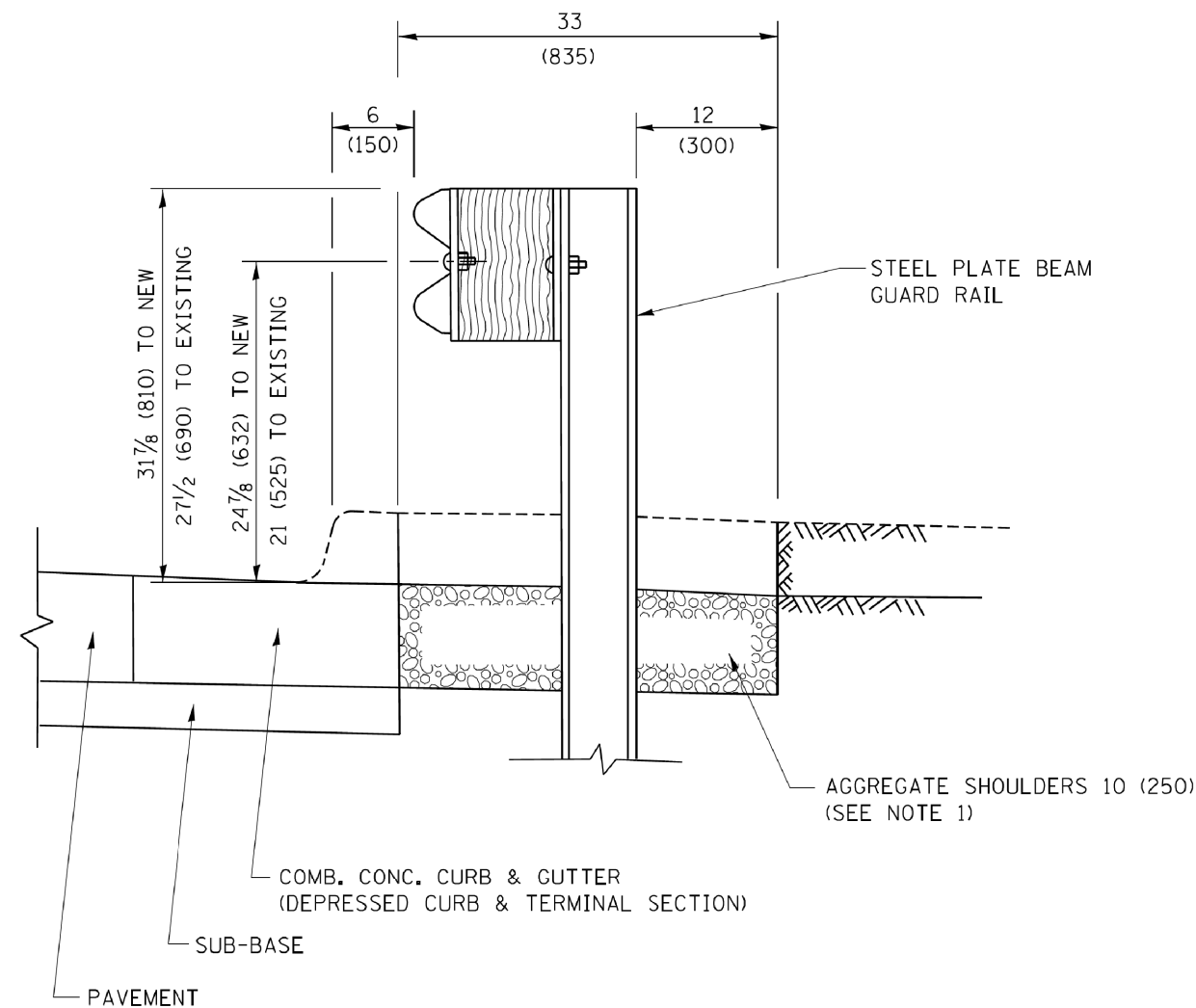
THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS, SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

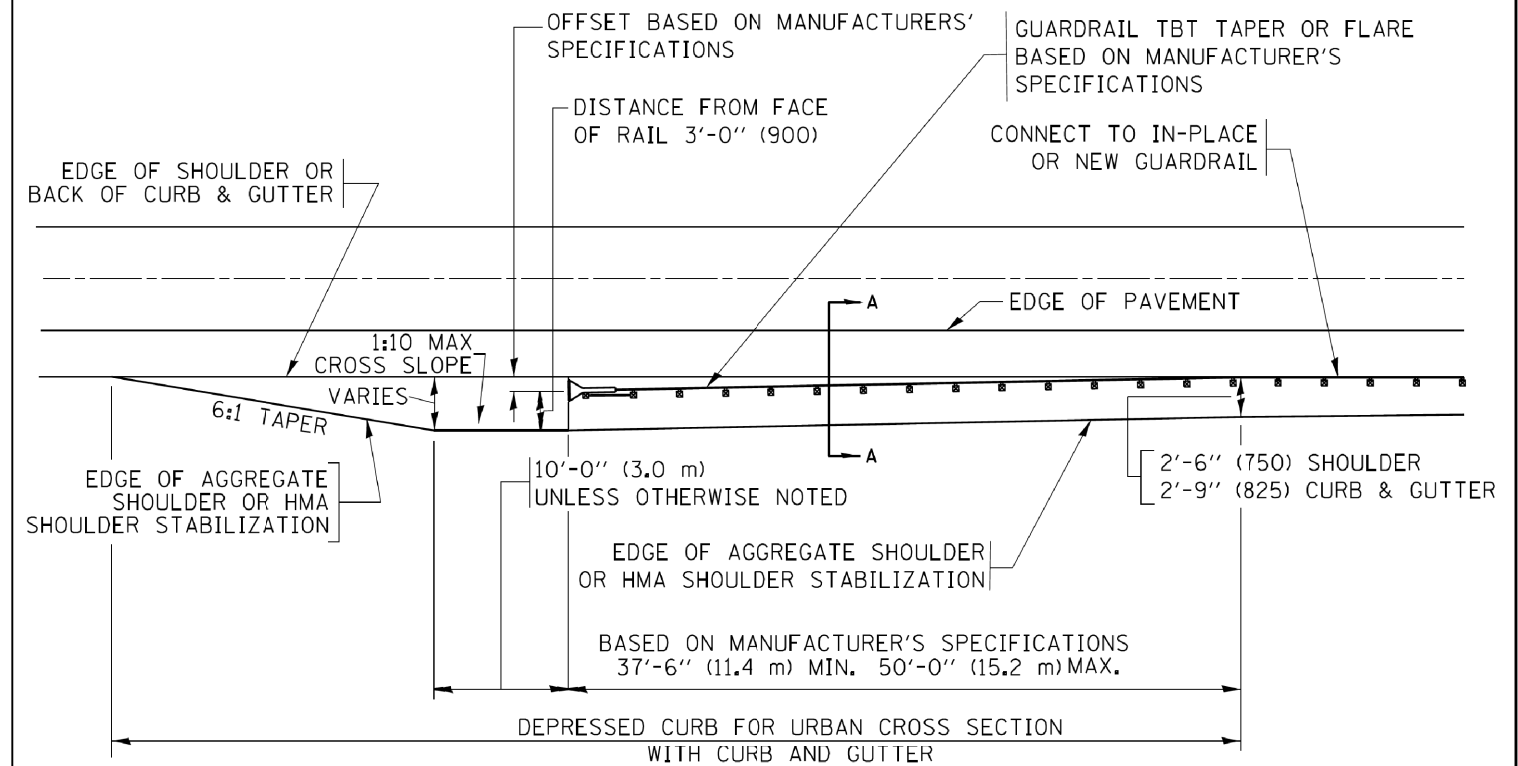
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ca:\pwork\pwork\lrysa\0108315\bd01.dgn		DRAWN -	REVISED - R. BORO 01-01-07			326	(105XB)B-R		MCHENRY	223	153				
	PLOT SCALE = 50,0000' / in.	CHECKED -	REVISED - R. BORO 06-11-08			BD0156-07 (BD-01)					CONTRACT NO. 62A80				
	PLOT DATE = 9/6/2011	DATE - 11-04-95	REVISED - R. BORO 09-06-11			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT									
				SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.								



SECTION A-A

- NOTES:
1. THE AGGREGATE SHOULDER, 10 (250) OR HMA SHOULDER, 6 (150) (IF REQUIRED) SHALL EXTEND UNDER THE TRAFFIC BARRIER TERMINAL.
 2. "EXISTING" GUARDRAIL REFERS TO CONNECTING TERMINAL SECTION TO GUARD RAILING PRIOR TO THE MIDWEST GUARDRAIL SYSTEM.
 3. THE CONTRACTOR SHALL VERIFY THE TYPE/HEIGHT OF GUARDRAIL IN-PLACE BEFORE ORDERING THE NEW TERMINAL SECTION. COST INCLUDED WITH THE COST OF THE TERMINAL. THE TERMINAL SECTION HEIGHT TO BE PLACED MUST MATCH THE HEIGHT OF THE IN-PLACE GUARDRAIL.

**DETAILS FOR STEEL PLATE BEAM
GUARD RAIL ADJACENT TO CURB AND GUTTER**
[FOR ROADWAY SPEED 35 MPH (60 kmh) TO 45 MPH (70 kmh)]



**DEPRESSED CURB AND GUTTER AND
SHOULDER TREATMENT AT TBT TY. 1 SPL.**

AGGREGATE SHOULDER, 10 (250) WILL BE PAID
ACCORDING TO SECTION 481.

HMA SHOULDERS 6 (150) (IF REQUIRED) WILL BE
PAID ACCORDING TO SECTION 482.

COMB. CONC. C&G, STEEL PLATE BEAM GUARD RAIL
AND TRAFFIC BARRIER TERMINAL, OF THE TYPE
SPECIFIED WILL BE PAID FOR SEPARATELY.

TBT = TRAFFIC BARRIER TERMINAL
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN.

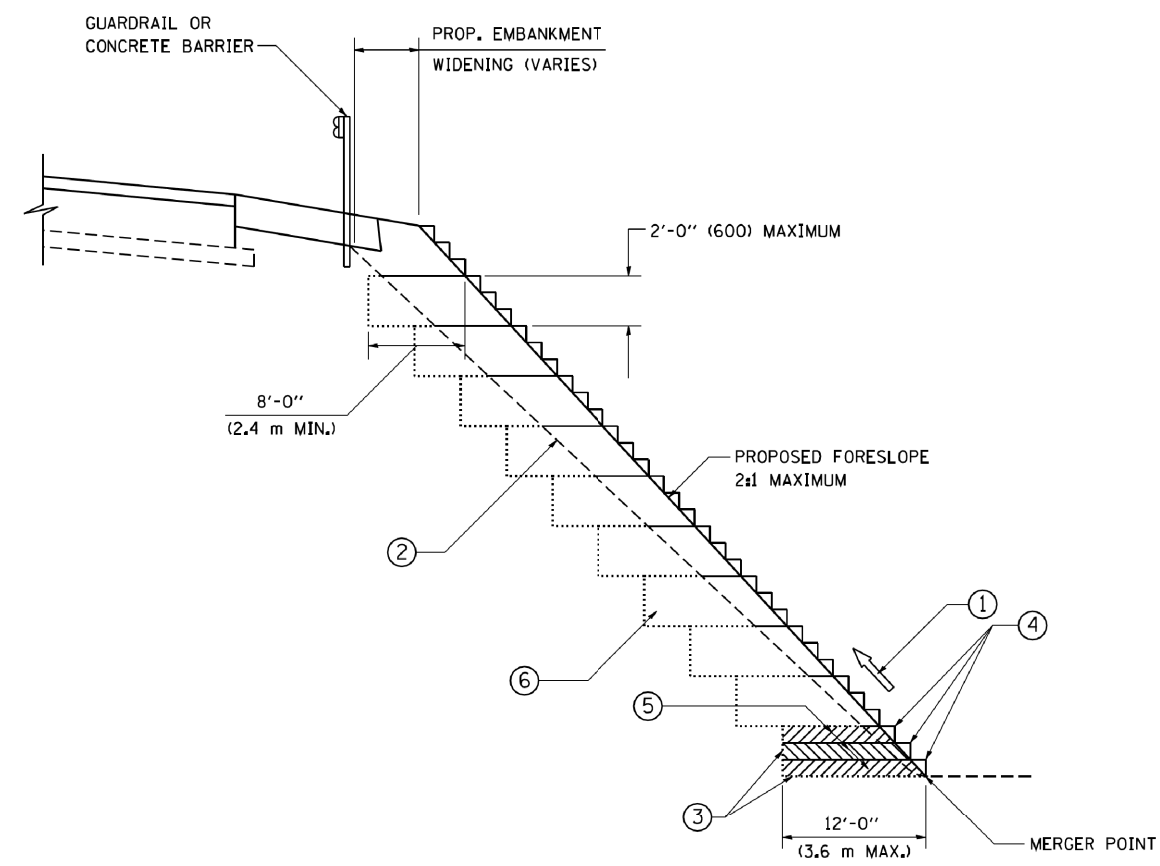
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pwt\1\084E8IDINTEG\illinois.gov\PIDOT\Documents\DOT Offices\District 1\Projects\District 1\CADData\CADsheets\bd34.dgn		DRAWN	REVISED - R. BORO 09-14-2009
PLOT SCALE = 50.0000' / 1" in.	CHECKED -	REVISOR - R. BORO 08-06-2012	REVISED - R. BORO 05-08-2015
Default	PLOT DATE = 12/21/2015	DATE - 09-22-90	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETAILS FOR DEPRESSED CURB & GUTTER AND
SHOULDER TREATMENT AT TBT TY. 1 SPL.**

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(105XB)B-R	MCHENRY	223	154
BD600-10 (BD 34)		CONTRACT NO. 62A80		
ILLINOIS FED. AID PROJECT				



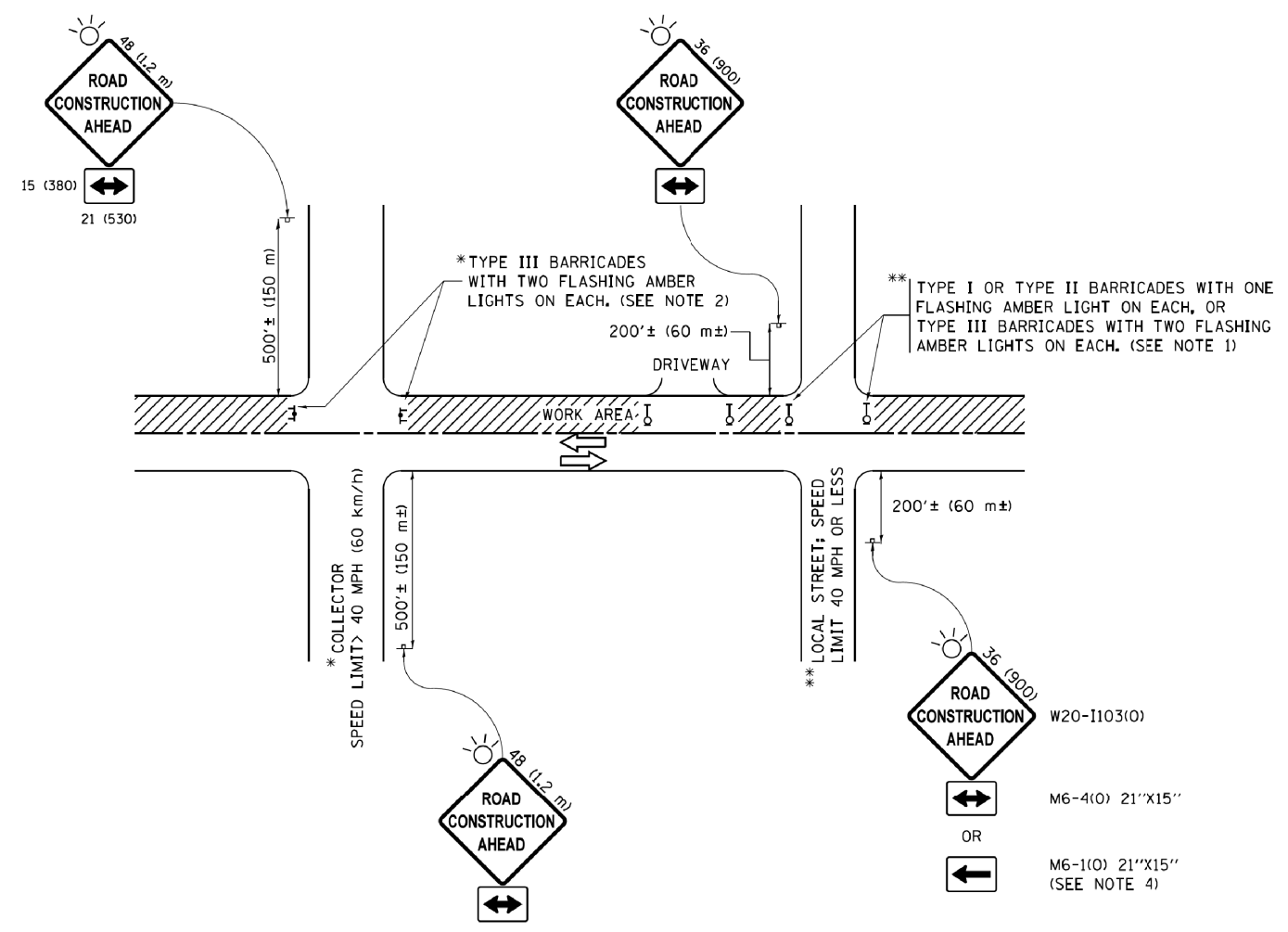
TYPICAL BENCHING DETAIL
FOR EMBANKMENT

NOTES:

- ① CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- ② EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
- ③ BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- ④ TRIM TO FINAL SLOPE.
- ⑤ EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
- ⑥ EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ⑦ SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 4:1 AND THE HEIGHT IS GREATER THAN 5' (1.5 m).

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

FILE NAME = W:\diststd\22x34\bd51.dgn	USER NAME = gaglianobt		DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BENCHING DETAIL FOR EMBANKMENT WIDENING			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			DRAWN - CADD	REVISED -					326	(105XB)B-R	McHENRY	223	155
	PLOT SCALE = 50.0000' / IN.		CHECKED - S.E.B.	REVISED -					BD-51		CONTRACT NO. 62A80		
	PLOT DATE = 1/4/2008		DATE - 06-16-04	REVISED -		SCALE: NONE	SHEET NO. 1	OF 1 SHEETS	STA.	TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

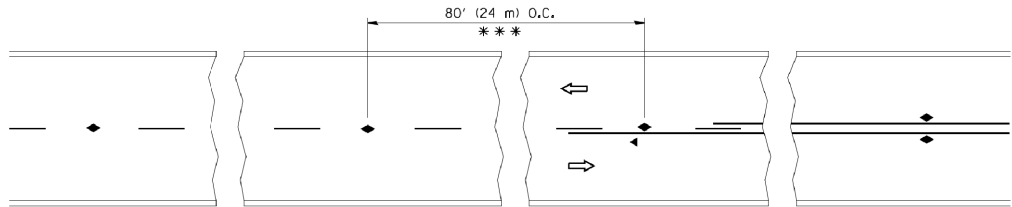


NOTES:

- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
- WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
- THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

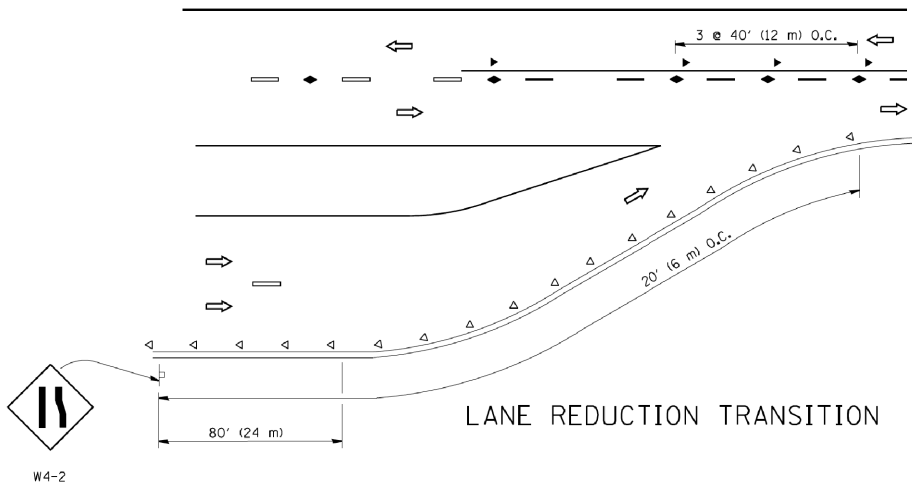
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = footemj	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS				F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pwt\11L084EBIDINTEG\Illinois.gov\FWIDOT\Documents\IDOT Offices\District 1\Projects\District 1\CADData\CADsheets\10.dgn	DRAWN	REVISED - T. RAMMACHER 01-06-00	326						(105XB)B-R	MCHENRY	223	156	
Default	PLOT SCALE = 50.000' / in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13		TC-10				CONTRACT NO. 62A80				
	PLOT DATE = 9/15/2016	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16		SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.				ILLINOIS FED. AID PROJECT				

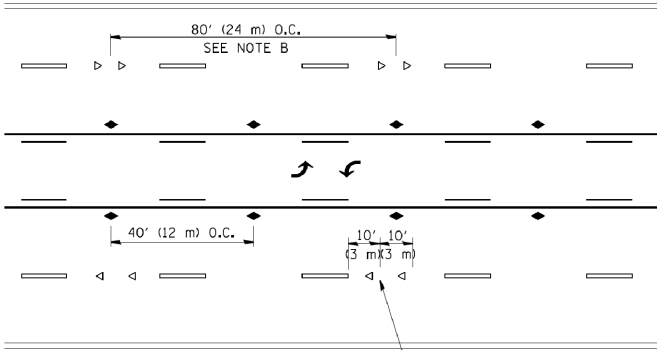


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

TWO-LANE/TWO-WAY

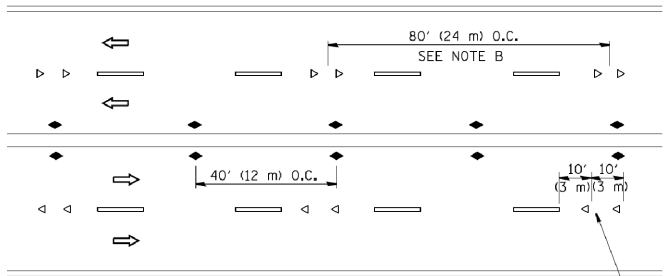


LANE REDUCTION TRANSITION



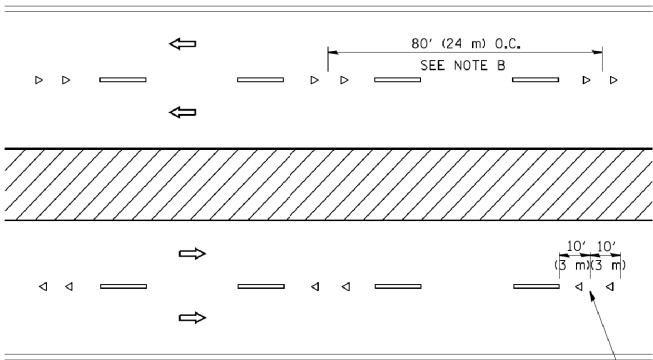
SEE NOTE A

TWO-WAY LEFT TURN



SEE NOTE A

MULTI-LANE/UNDIVIDED



SEE NOTE A

MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

LANE MARKER NOTES

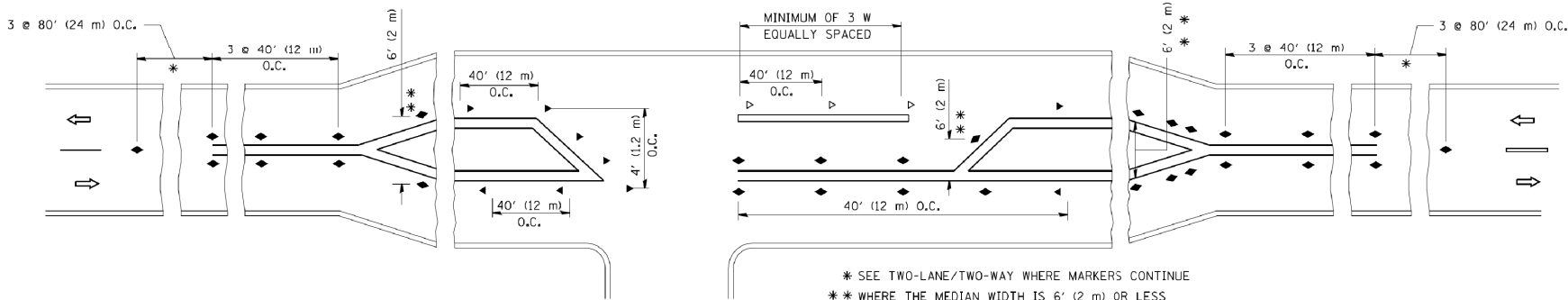
- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

SYMBOLS

- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.

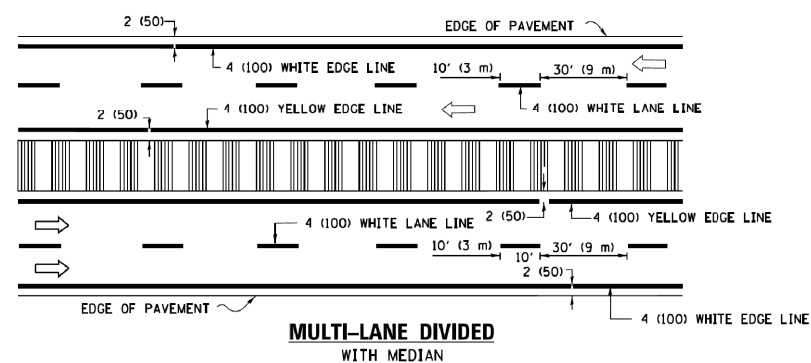
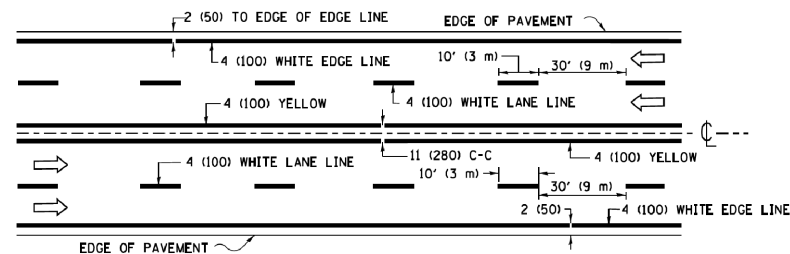
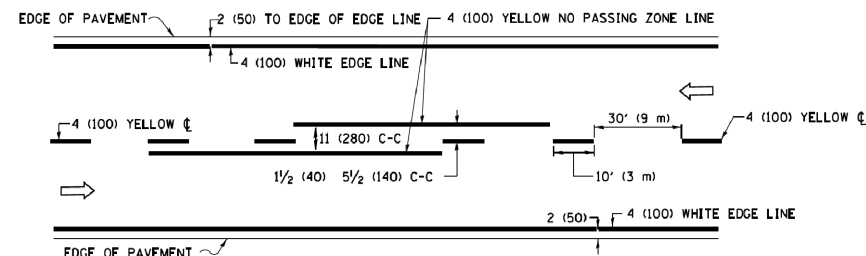


* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE
** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS
USE TWO-WAY MARKERS.

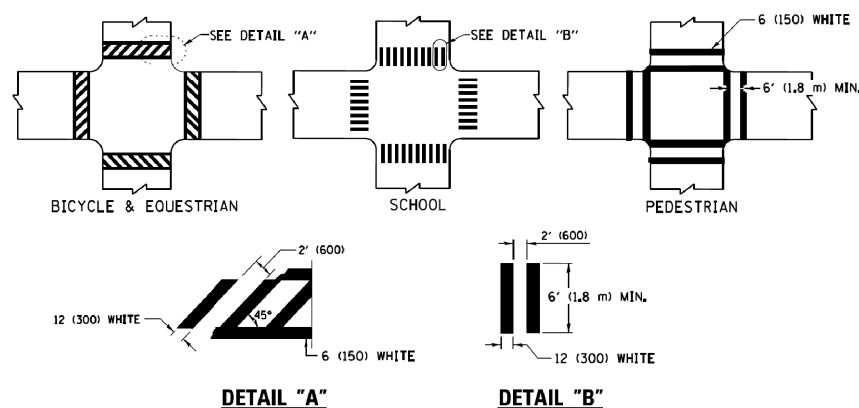
LEFT TURN

All dimensions are in inches (millimeters)
unless otherwise shown.

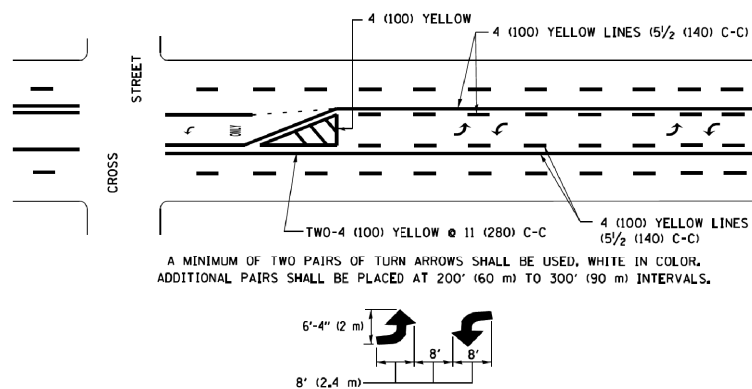
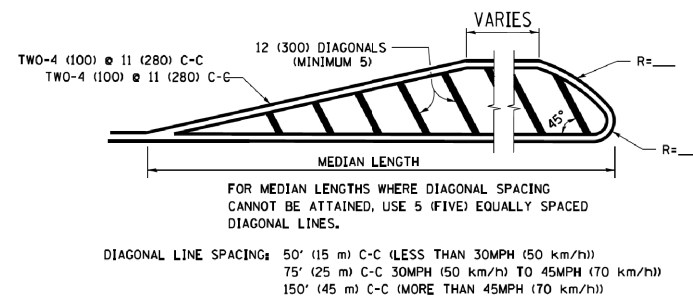
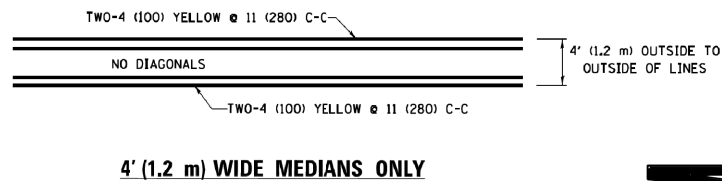
FILE NAME =	USER NAME = lrysa	DESIGNED -	REVISED - T. RAMMACHER 09-19-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pw\work\p\dot\lrysa\d0108315\te11.dgn		DRAWN -	REVISED - T. RAMMACHER 03-12-99					326	(105XB)B-R	MCHENRY	223	157
PLOT SCALE = 50.000 ' / IN.		CHECKED -	REVISED - T. RAMMACHER 01-06-00		SCALE: NONE			TC-11		CONTRACT NO. 62A80		
PLOT DATE = 3/2/2011		DATE -	REVISED - C. JUCIUS 09-09-09		SHEET NO. 1 OF 1 SHEETS			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



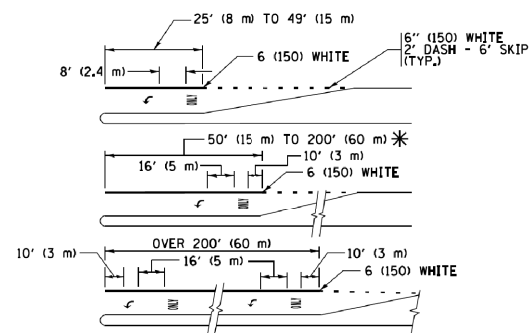
TYPICAL LANE AND EDGE LINE MARKING



* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES

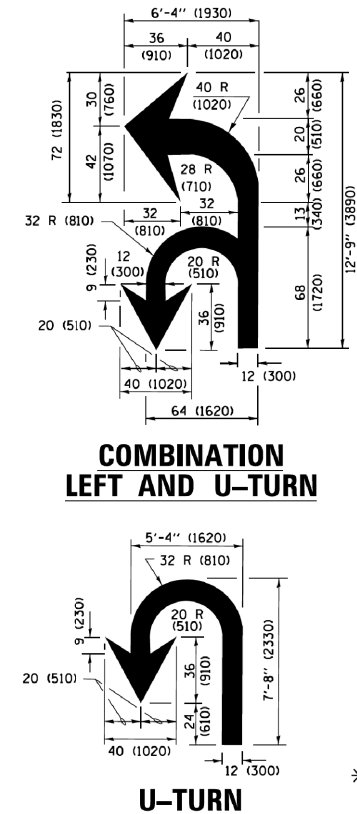
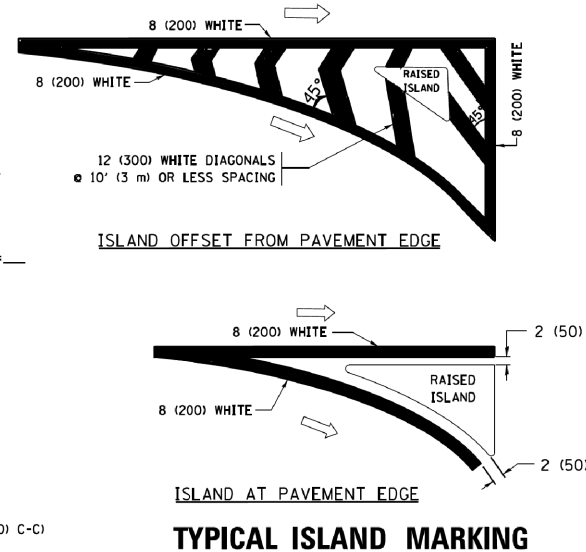


TYPICAL PAINTED MEDIAN MARKING



FULL SIZE LETTERS 8" (2.4 m) AND ARROWS SHALL BE USED.
 ↶ AREA = 15.6 SQ. FT. (1.5 m²) ↷ AREA = 20.8 SQ. FT. (1.9 m²)

* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".



D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

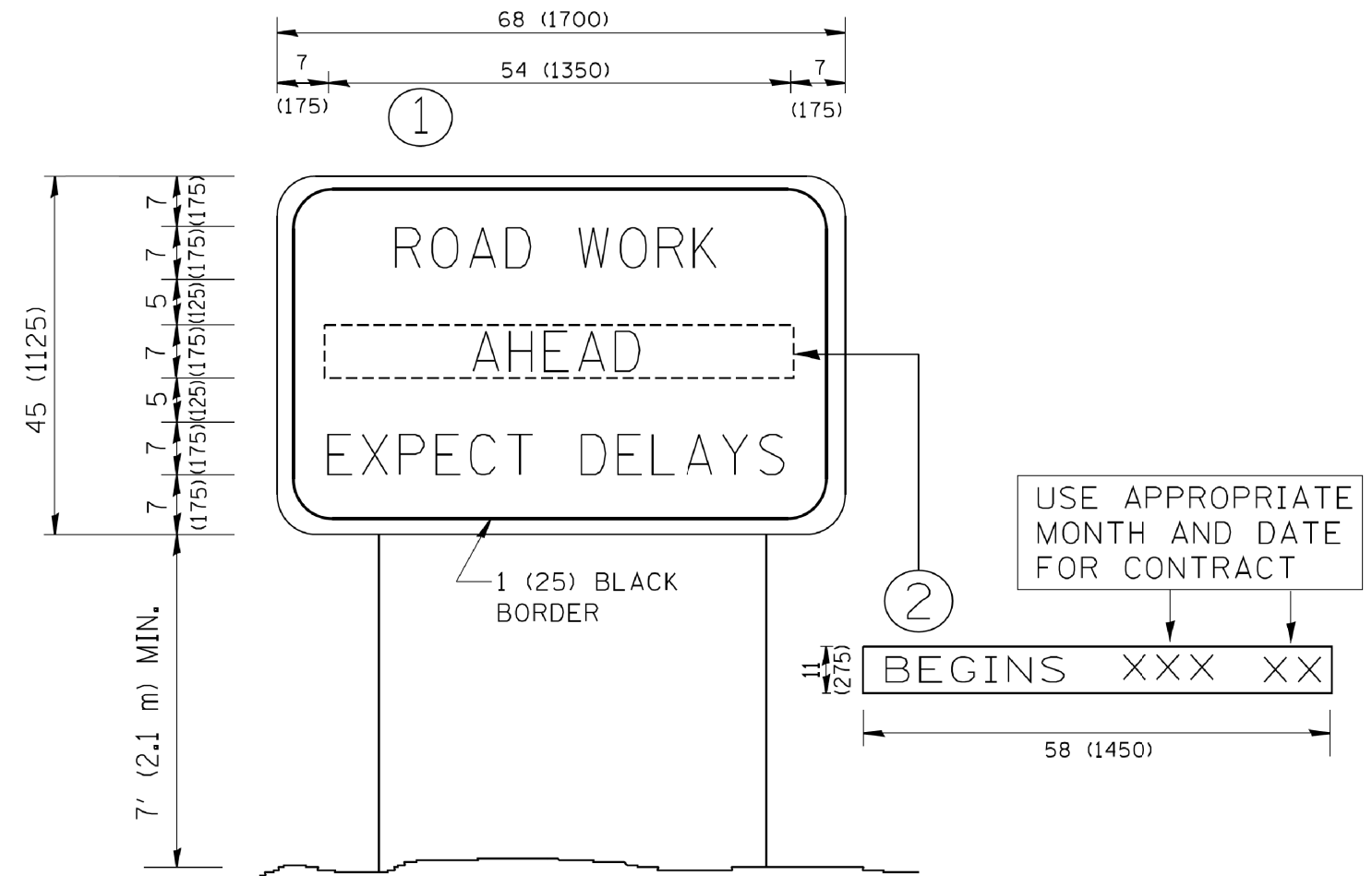
TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES; FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS; 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDER ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO
STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE
CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = lequo	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09
\\a\dstdatd\22x34\tcl3.dgn		DRAWN -	REVISED - C. JUCIUS 07-01-13
	PLOT SCALE = 50.000 ' / in.	CHECKED -	REVISED - C. JUCIUS 12-21-15
Default	PLOT DATE = 6/23/2017	DATED - 03-19-90	REVISED - C. JUCIUS 04-12-16

DISTRICT ONE TYPICAL PAVEMENT MARKINGS					F.A. ^P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
					326	(105XB)B-R	MCHENRY	223	158
					TC-13		CONTRACT NO. 62A80		
SCALE: NONE	SHEET 1	OF 1	SHEETS	STA.	TO STA.				

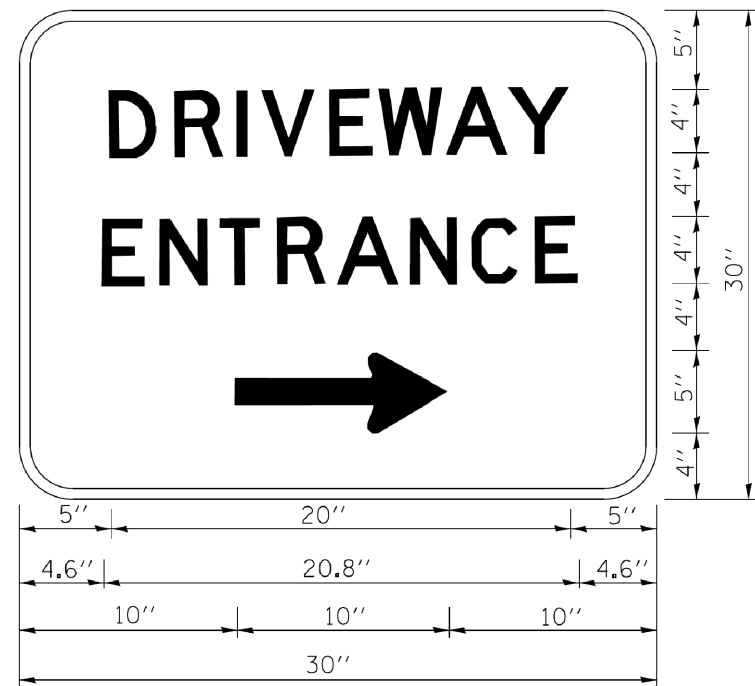


NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

FILE NAME = W:\diststd\22x34\to22.dgn	USER NAME = gaglianobt	DESIGNED -	REVISED - R. MIRS 09-15-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED - R. MIRS 12-11-97						326	(105XB)B-R	MCHENRY	223	159
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - T. RAMMACHER 02-02-99						TC-22		CONTRACT NO. 62A80		
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
					SCALE: NONE	SHEET NO. 1	OF 1	SHEETS	STA.	TO STA.			



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED
"DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

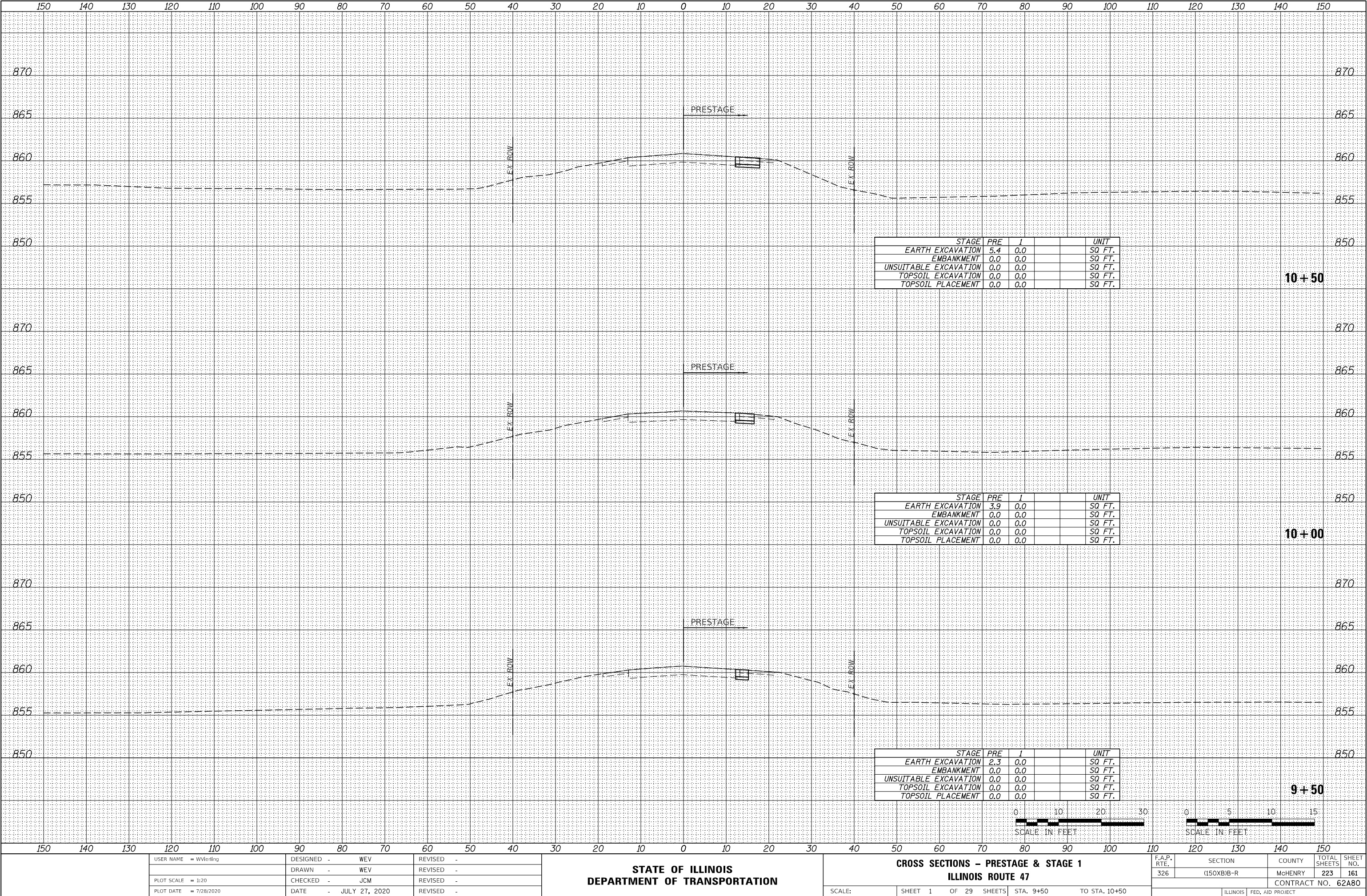
1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE
PLACED BACK-TO-BACK; ONE WITH A RIGHT HAND ARROW (SHOWN)
SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY
AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE
FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

FILE NAME = c:\pwork\pwork\gaglianob\0108315\tp26.dgn	USER NAME = gaglianob	DESIGNED -	REVISED - C. JUCIUS 02-15-07	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRIVEWAY ENTRANCE SIGNING			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -					326	(105XB)B-R	MCHENRY	223	160
	PLOT SCALE = 50.000' / 1in.	CHECKED -	REVISED -		TC-26			CONTRACT NO. 62A80				
	PLOT DATE = 12/13/2012	DATE -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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

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

MODEL: \$MODELNAME\$
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USER NAME = WVerling	DESIGNED - WEV	REVISED -
	DRAWN - WEV	REVISED -
PLOT SCALE = 1:20	CHECKED - JCM	REVISED -
PLOT DATE = 7/28/2020	DATE - JULY 27, 2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

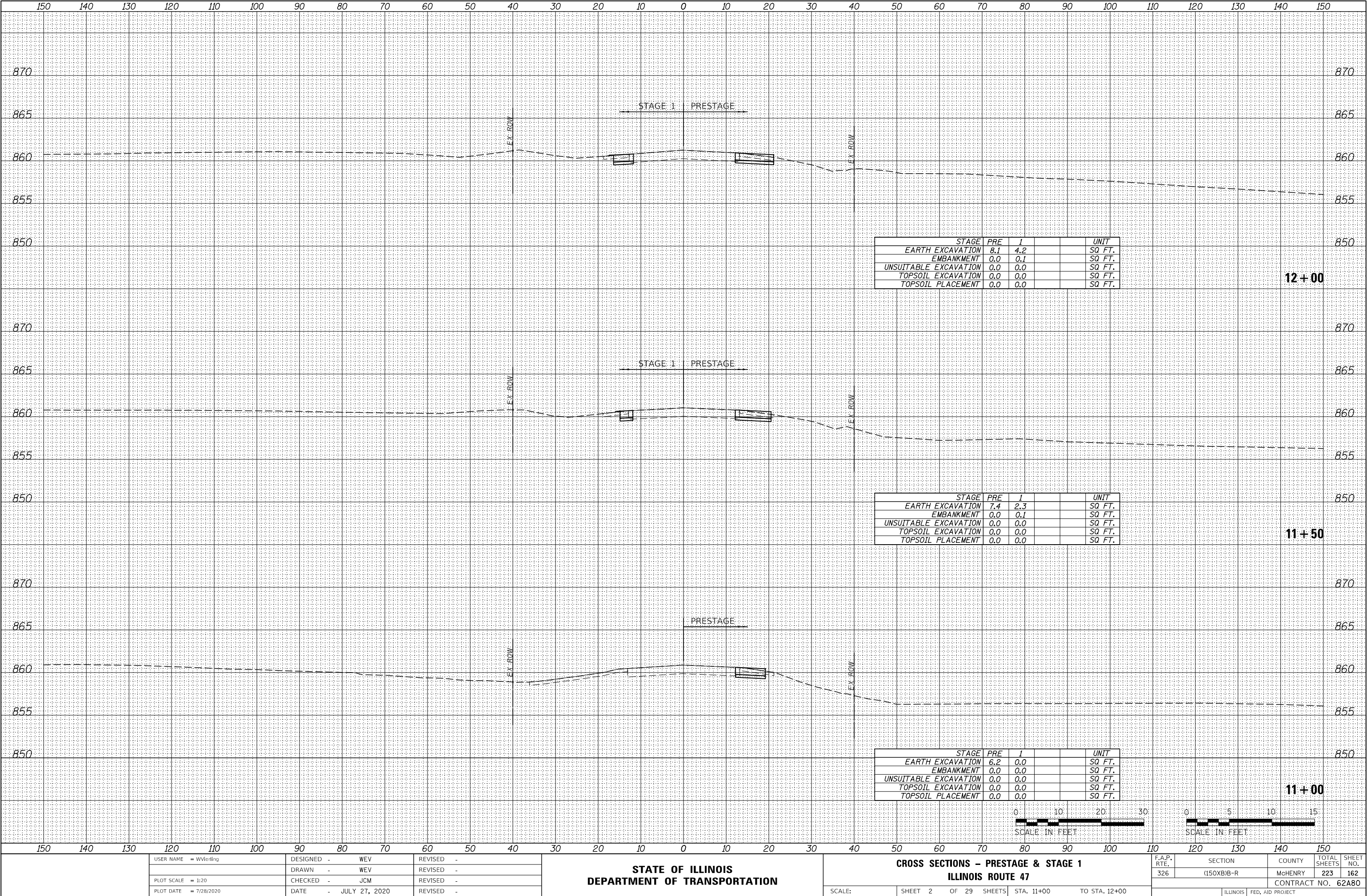
CROSS SECTIONS - PRESTAGE & STAGE 1			
ILLINOIS ROUTE 47			
SCALE:	SHEET 1 OF 29 SHEETS	STA. 9+50	TO STA. 10+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(150XB)B-R	McHENRY	223	161
				CONTRACT NO. 62A80
				ILLINOIS FED. AID PROJECT

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

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

MODEL: \$MODELNAME\$
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	DRAWN - WEV	REVISED -
PLOT SCALE = 1:20	CHECKED - JCM	REVISED -
PLOT DATE = 7/28/2020	DATE - JULY 27, 2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - PRESTAGE & STAGE 1
ILLINOIS ROUTE 47

SCALE: SHEET 2 OF 29 SHEETS STA. 11+00 TO STA. 12+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(150XB)B-R	McHENRY	223	162
				CONTRACT NO. 62A80

ILLINOIS FED. AID PROJECT

FINAL SURVEY	NO.	DATE	BY	SURVEYED	PLOTTED	TEMPLATE	AREAS	CHECKED

ORIGINAL SURVEY	NO.	DATE	BY	SURVEYED	PLOTTED	TEMPLATE	AREAS	CHECKED

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USER NAME = WVerling	DESIGNED - WEV	REVISED -
	DRAWN - WEV	REVISED -
PLOT SCALE = 1:20	CHECKED - JCM	REVISED -
PLOT DATE = 7/28/2020	DATE - JULY 27, 2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - PRESTAGE & STAGE 1
ILLINOIS ROUTE 47

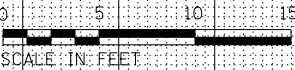
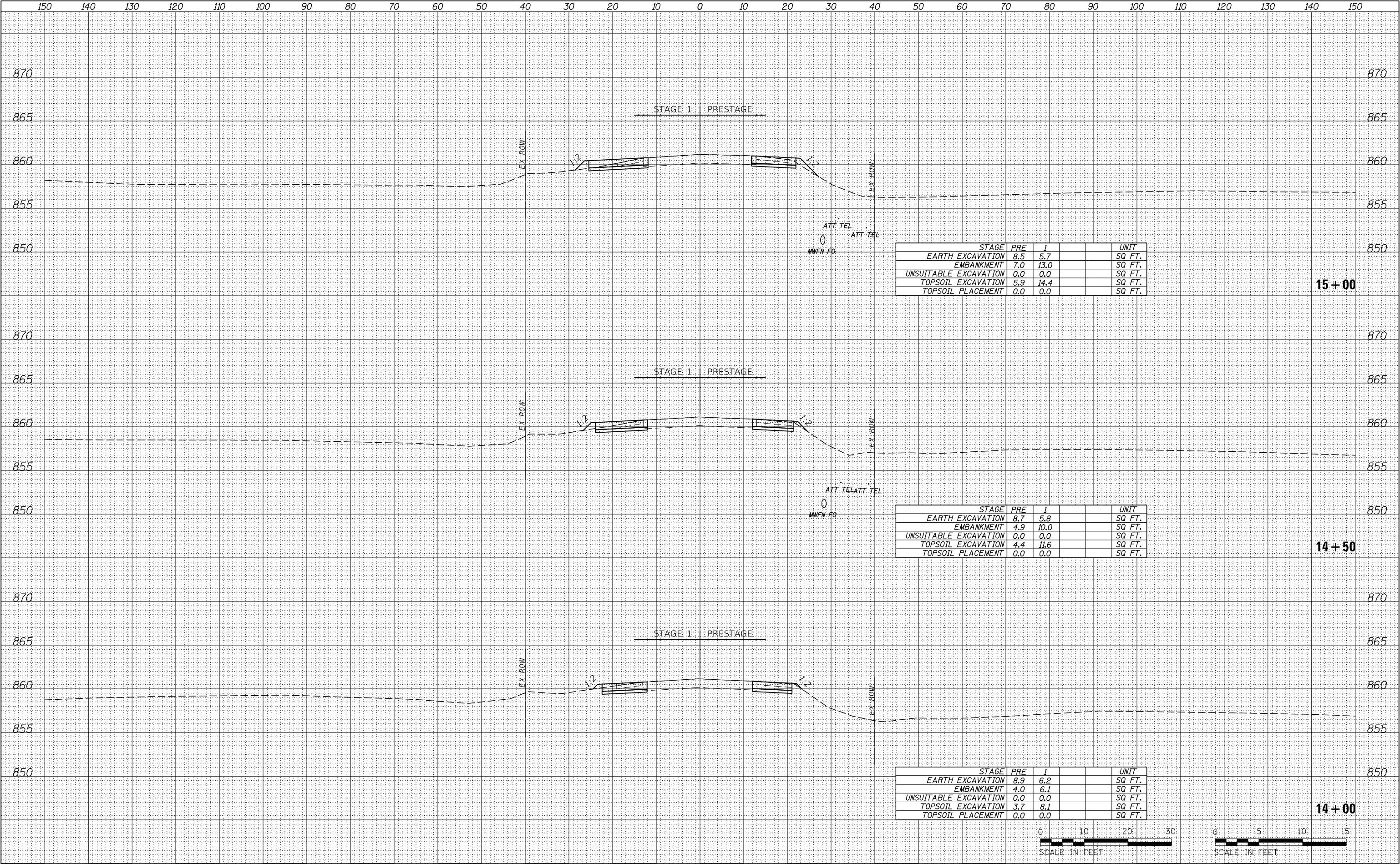
SCALE: SHEET 3 OF 29 SHEETS STA. 12+50 TO STA. 13+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(150XB)B-R	McHENRY	223	163
				CONTRACT NO. 62A80
				ILLINOIS FED. AID PROJECT

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

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

MODEL \$MODELNAME\$
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USER NAME = WVerling	DESIGNED - WEV	REVISED -
	DRAWN - WEV	REVISED -
PLOT SCALE = 1:20	CHECKED - JCM	REVISED -
PLOT DATE = 7/28/2020	DATE - JULY 27, 2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - PRESTAGE & STAGE 1
ILLINOIS ROUTE 47

SCALE: SHEET 4 OF 29 SHEETS STA. 14+00 TO STA. 15+00

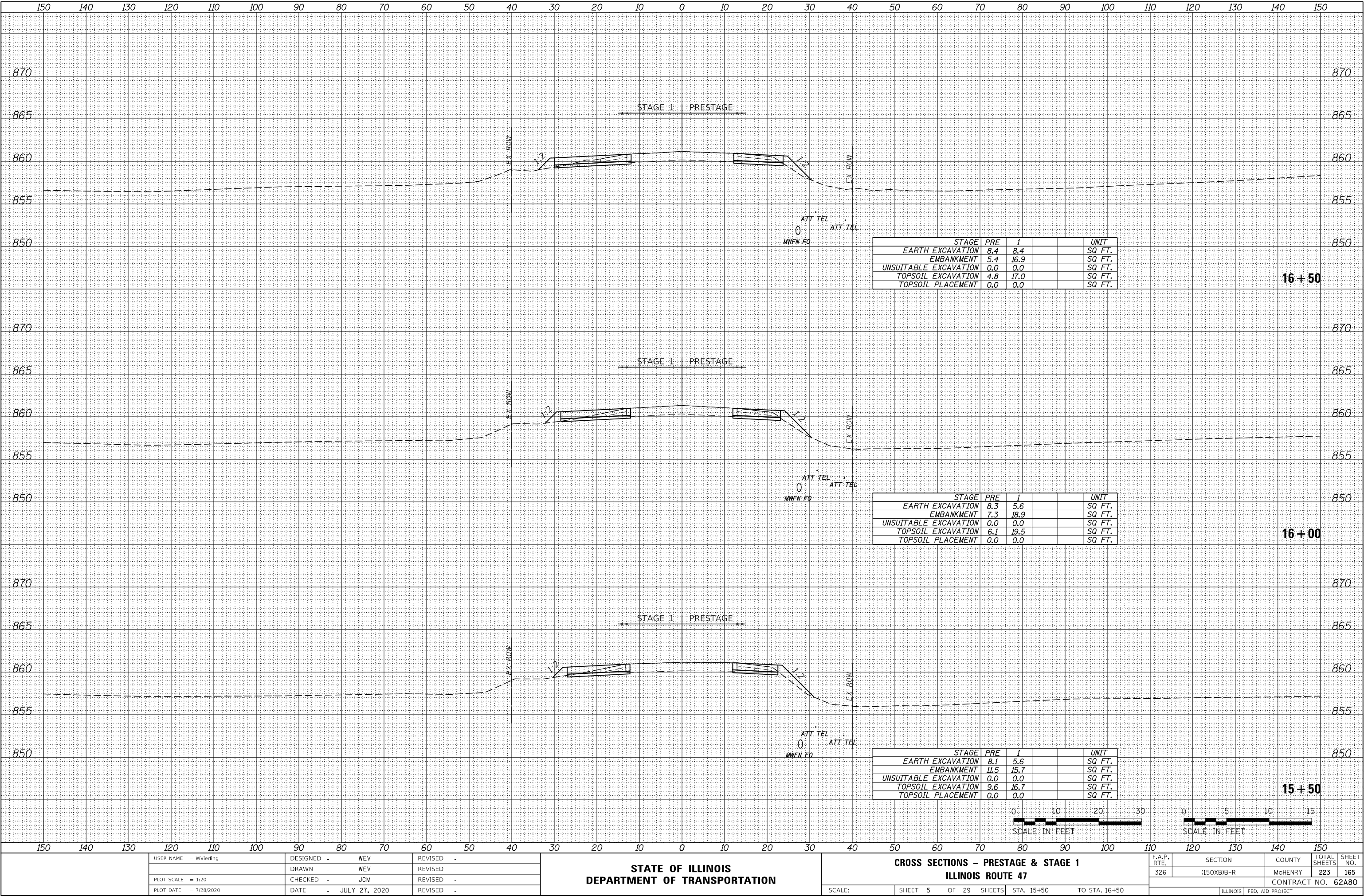
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(150XB)B-R	McHENRY	223	164
				CONTRACT NO. 62A80

ILLINOIS FED. AID PROJECT

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

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

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PLOT SCALE = 1:20	CHECKED - JCM	REVISED -
PLOT DATE = 7/28/2020	DATE - JULY 27, 2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - PRESTAGE & STAGE 1
ILLINOIS ROUTE 47

SCALE: SHEET 5 OF 29 SHEETS STA. 15+50 TO STA. 16+50

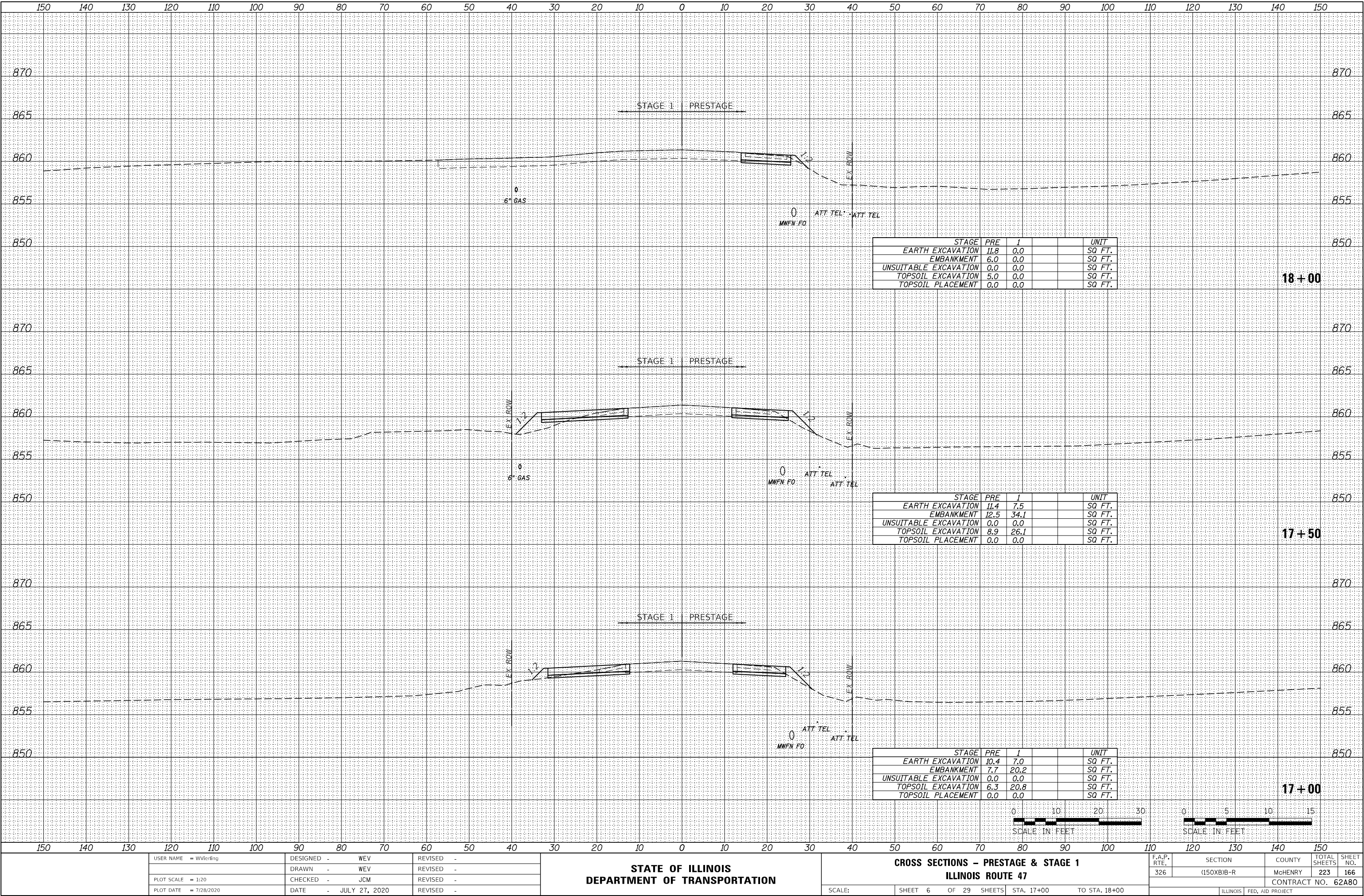
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(150XB)B-R	McHENRY	223	165
			CONTRACT NO.	62A80

ILLINOIS FED. AID PROJECT

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

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

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FILE NAME: L:\728\DOT\CA01\Sheets\Sec1D\162AB0-45-HR-PR-STA.Rcd



USER NAME = WVierling	DESIGNED - WEV	REVISED -
	DRAWN - WEV	REVISED -
PLOT SCALE = 1:20	CHECKED - JCM	REVISED -
PLOT DATE = 7/28/2020	DATE - JULY 27, 2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

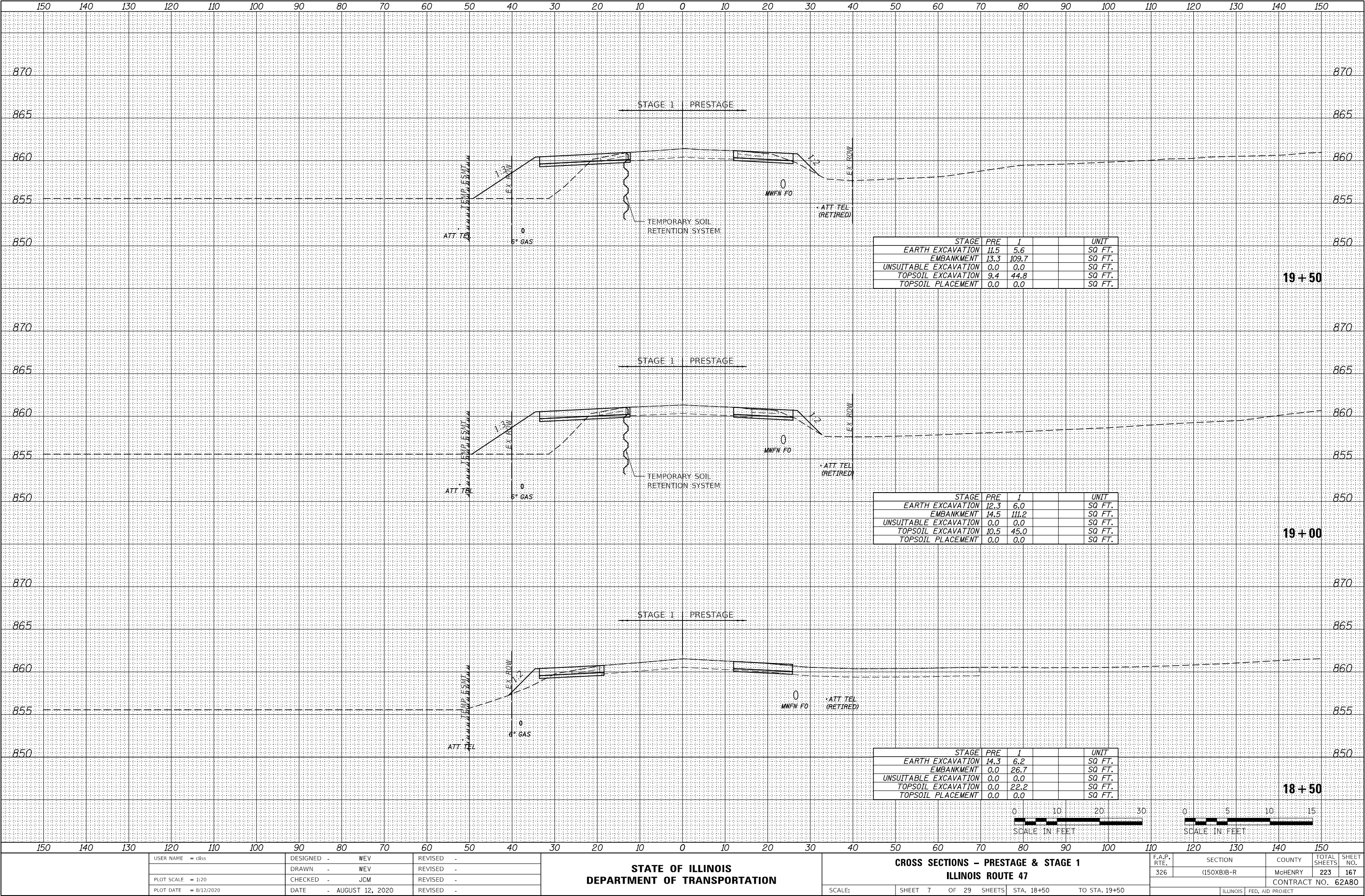
CROSS SECTIONS - PRESTAGE & STAGE 1		
ILLINOIS ROUTE 47		
SCALE:	SHEET 6 OF 29 SHEETS	STA. 17+00 TO STA. 18+00

F.A.P. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
326	(150XB)B-R		McHENRY	223	166
			CONTRACT NO. 62A80		
		ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	NO.	BY	DATE	SURVEYED	PLOTTED	TEMPLATE	AREAS	CHECKED

ORIGINAL SURVEY	NO.	BY	DATE	SURVEYED	PLOTTED	TEMPLATE	AREAS	CHECKED

MODEL \$MODELNAME\$
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USER NAME = cllss	DESIGNED - WEV	REVISED -
	DRAWN - WEV	REVISED -
PLOT SCALE = 1:20	CHECKED - JCM	REVISED -
PLOT DATE = 8/12/2020	DATE - AUGUST 12, 2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

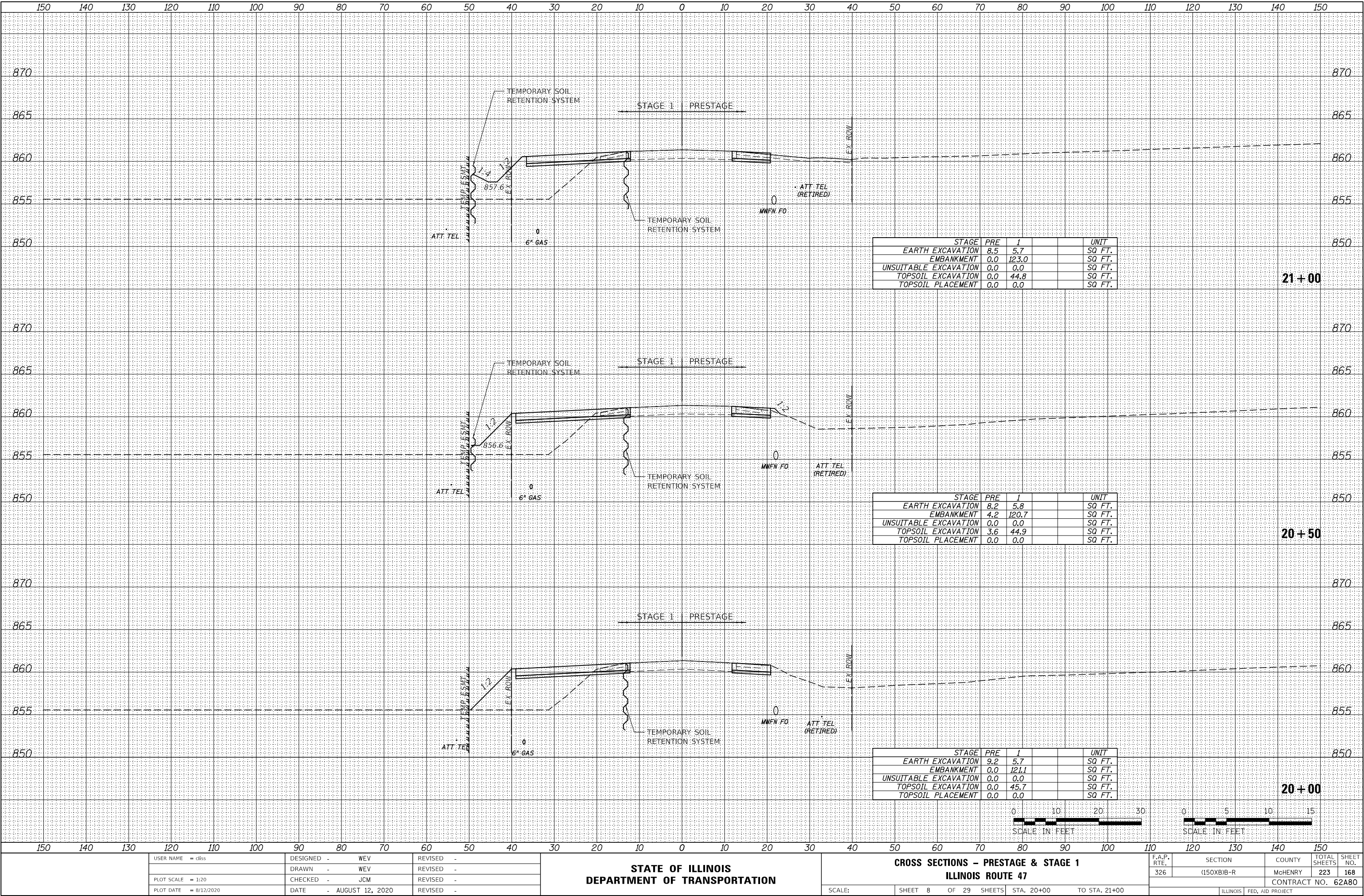
CROSS SECTIONS - PRESTAGE & STAGE 1			
ILLINOIS ROUTE 47			
SCALE:	SHEET 7 OF 29 SHEETS	STA. 18+50 TO STA. 19+50	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(150XB)B-R	McHENRY	223	167
CONTRACT NO. 62A80				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: \$MODELNAME\$
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	DRAWN - WEV	REVISED -
PLOT SCALE = 1:20	CHECKED - JCM	REVISED -
PLOT DATE = 8/12/2020	DATE - AUGUST 12, 2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

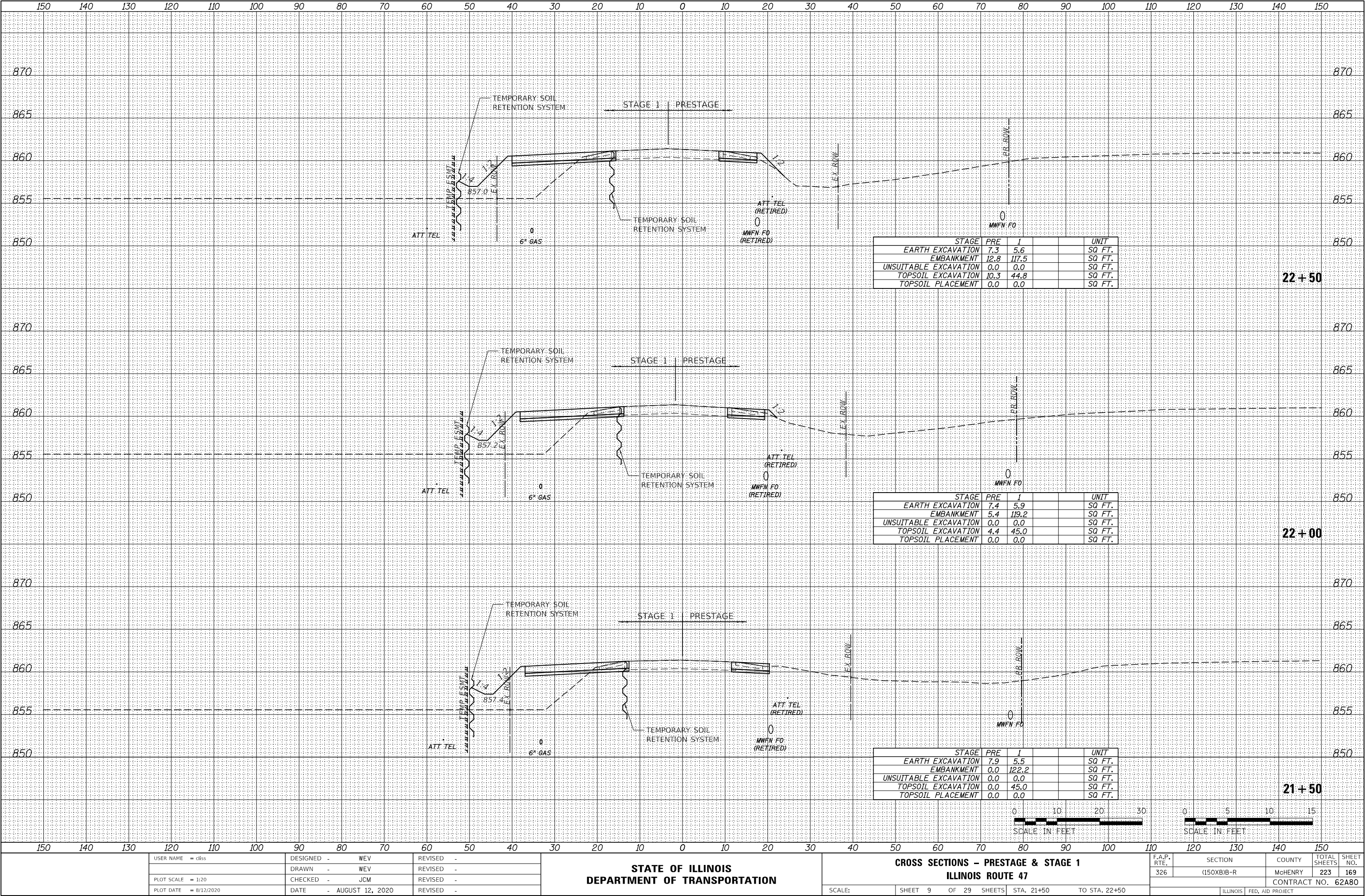
CROSS SECTIONS - PRESTAGE & STAGE 1			
ILLINOIS ROUTE 47			
SCALE:	SHEET 8	OF 29 SHEETS	STA. 20+00 TO STA. 21+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(150XB)B-R	McHENRY	223	168
CONTRACT NO. 62A80				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	DATE
	BY
	SURVEYED
	PLOTTED
	TEMPLATE
NO. _____	AREAS CHECKED

ORIGINAL SURVEY	DATE
	BY
	SURVEYED
	PLOTTED
	TEMPLATE
NO. _____	AREAS CHECKED

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PLOT SCALE = 1:20	CHECKED - JCM	REVISED -
PLOT DATE = 8/12/2020	DATE - AUGUST 12, 2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

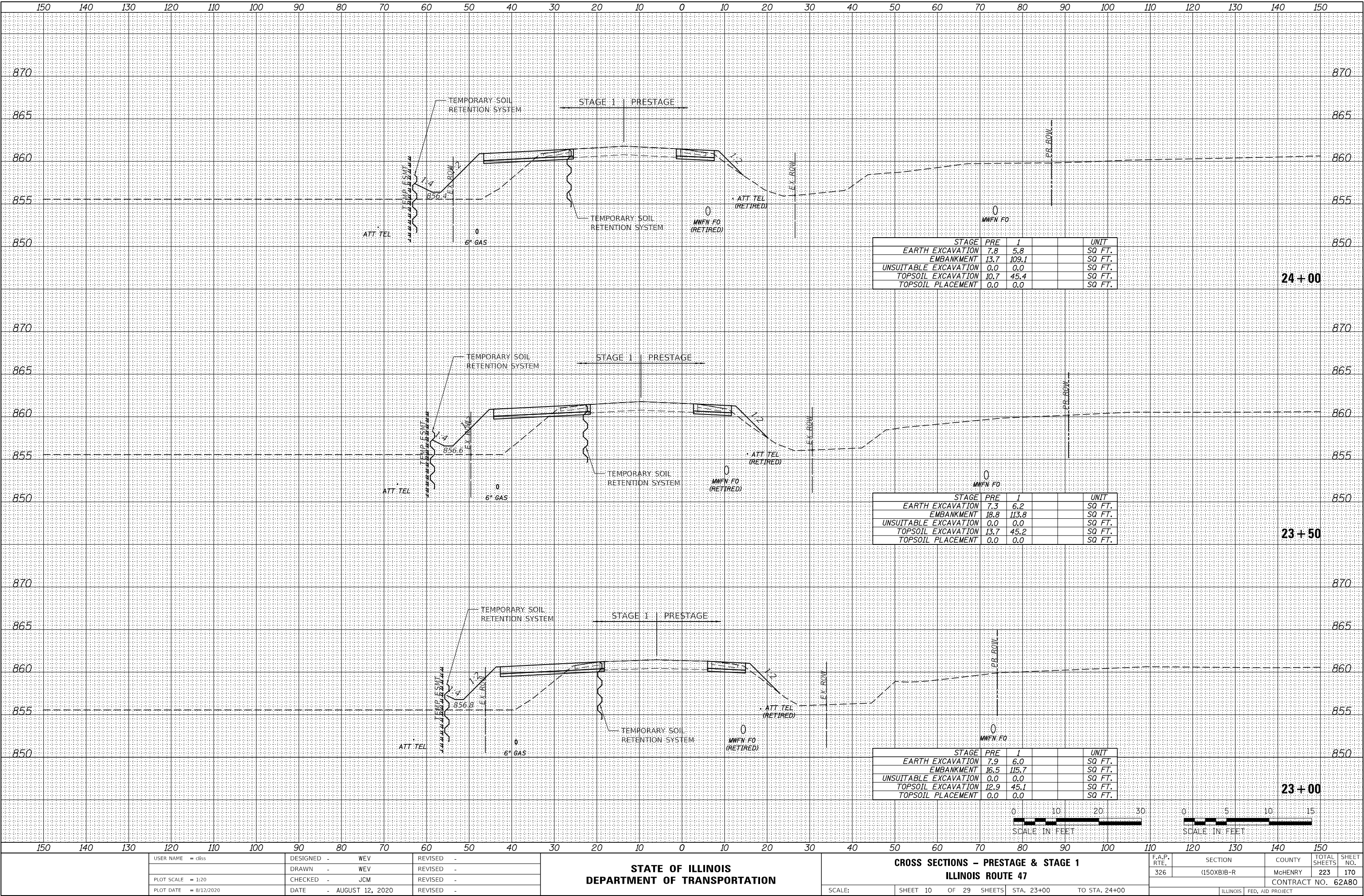
CROSS SECTIONS - PRESTAGE & STAGE 1			
ILLINOIS ROUTE 47			
SCALE:	SHEET 9 OF 29 SHEETS	STA. 21+50 TO STA. 22+50	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(150XB)B-R	McHENRY	223	169
CONTRACT NO. 62A80				
ILLINOIS FED. AID PROJECT				

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

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

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - PRESTAGE & STAGE 1
ILLINOIS ROUTE 47

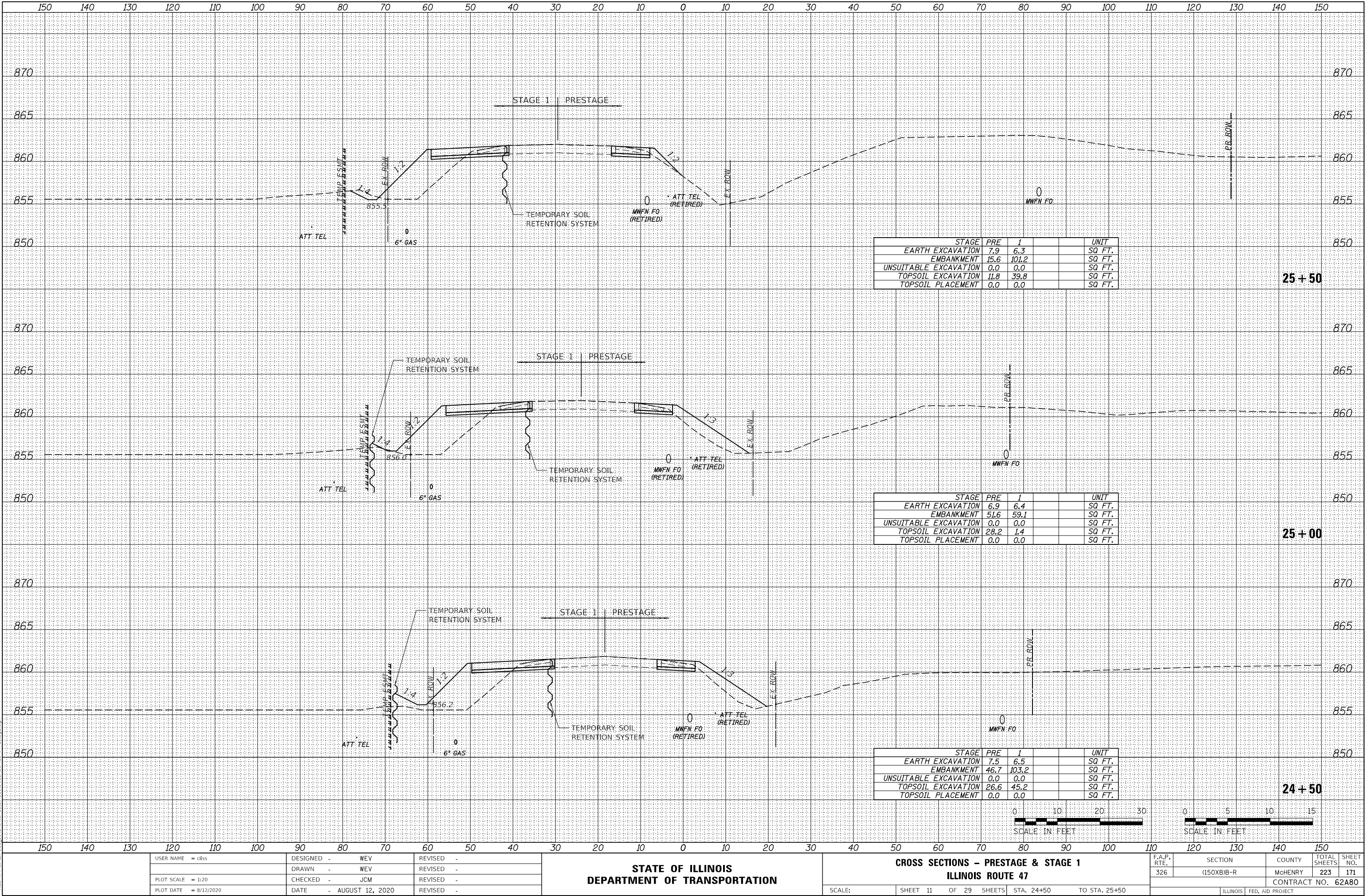
SCALE: SHEET 10 OF 29 SHEETS STA. 23+00 TO STA. 24+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(150XB)B-R	McHENRY	223	170
				CONTRACT NO. 62A80
				ILLINOIS FED. AID PROJECT

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

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

MODEL \$MODELNAME\$
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PLOT SCALE = 1:20	CHECKED - JCM	REVISED -
PLOT DATE = 8/12/2020	DATE - AUGUST 12, 2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - PRESTAGE & STAGE 1
ILLINOIS ROUTE 47

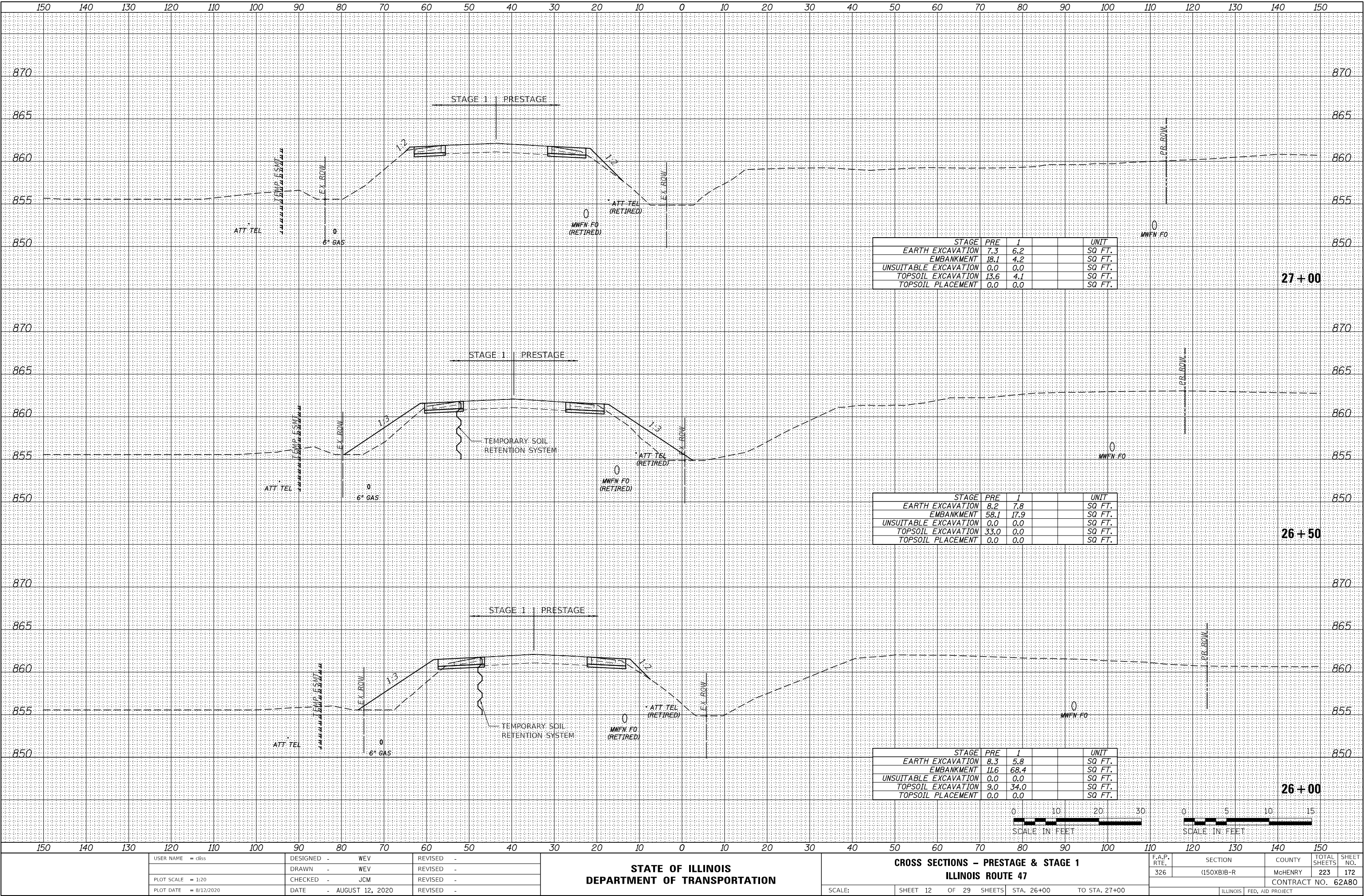
SCALE: SHEET 11 OF 29 SHEETS STA. 24+50 TO STA. 25+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(150XB)B-R	McHENRY	223	171
				CONTRACT NO. 62A80
				ILLINOIS FED. AID PROJECT

FINAL SURVEY	BY	DATE
NO. _____		
NOTE BOOK	SURVEYED	PLOTTED
NO. _____		
AREAS CHECKED	TEMP. ESWT	AREAS CHECKED

ORIGINAL SURVEY	BY	DATE
NO. _____		
NOTE BOOK	SURVEYED	PLOTTED
NO. _____		
AREAS CHECKED	TEMP. ESWT	AREAS CHECKED

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	DRAWN - WEV	REVISED -
PLOT SCALE = 1:20	CHECKED - JCM	REVISED -
PLOT DATE = 8/12/2020	DATE - AUGUST 12, 2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

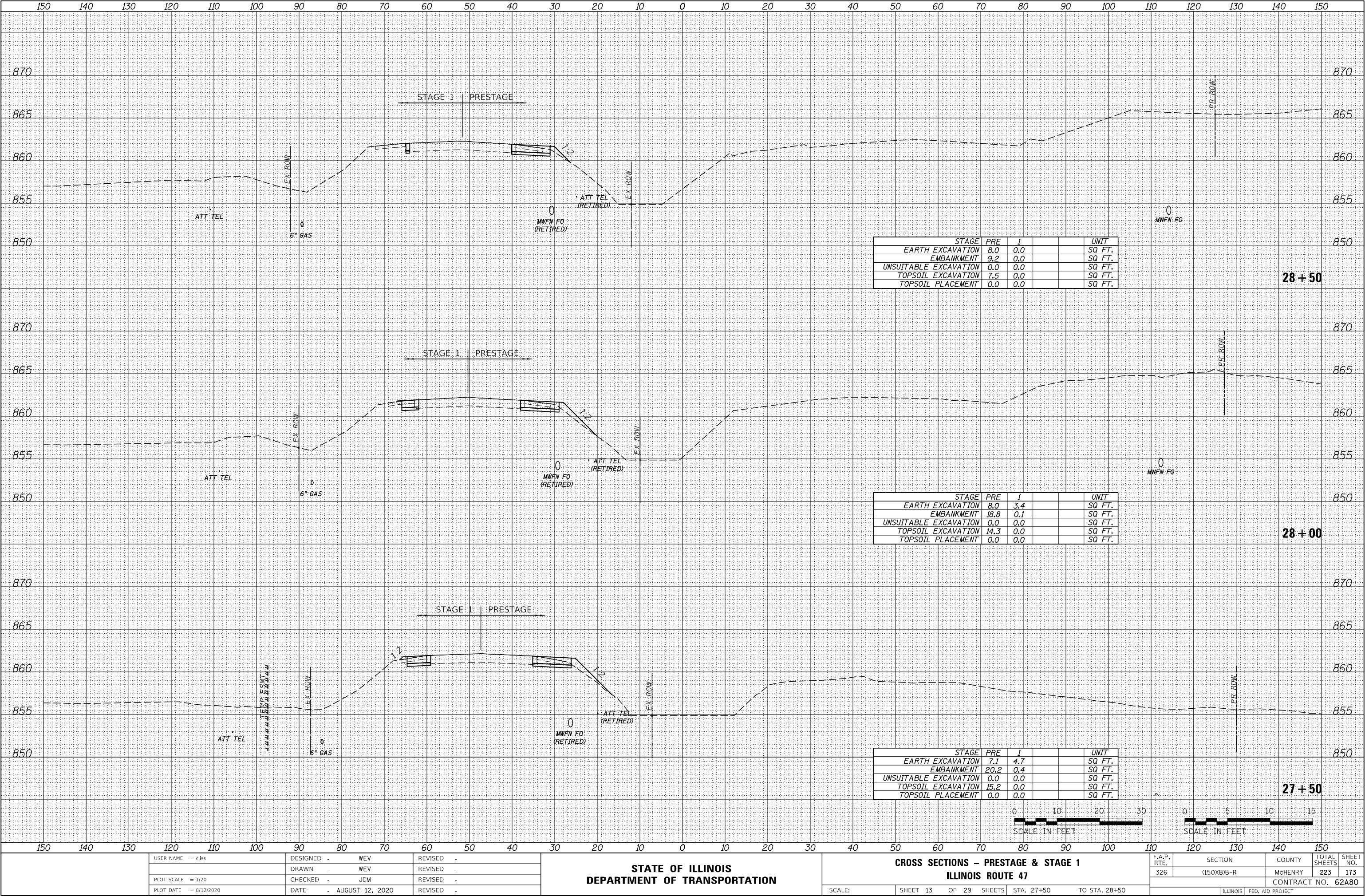
CROSS SECTIONS - PRESTAGE & STAGE 1
ILLINOIS ROUTE 47

F.A.P. RTE. 326	SECTION (150XB)B-R	COUNTY McHENRY	TOTAL SHEETS 223	SHEET NO. 172
				CONTRACT NO. 62A80
ILLINOIS FED. AID PROJECT				

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

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

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USER NAME = cllss	DESIGNED - WEV	REVISED -
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PLOT SCALE = 1:20	CHECKED - JCM	REVISED -
PLOT DATE = 8/12/2020	DATE - AUGUST 12, 2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

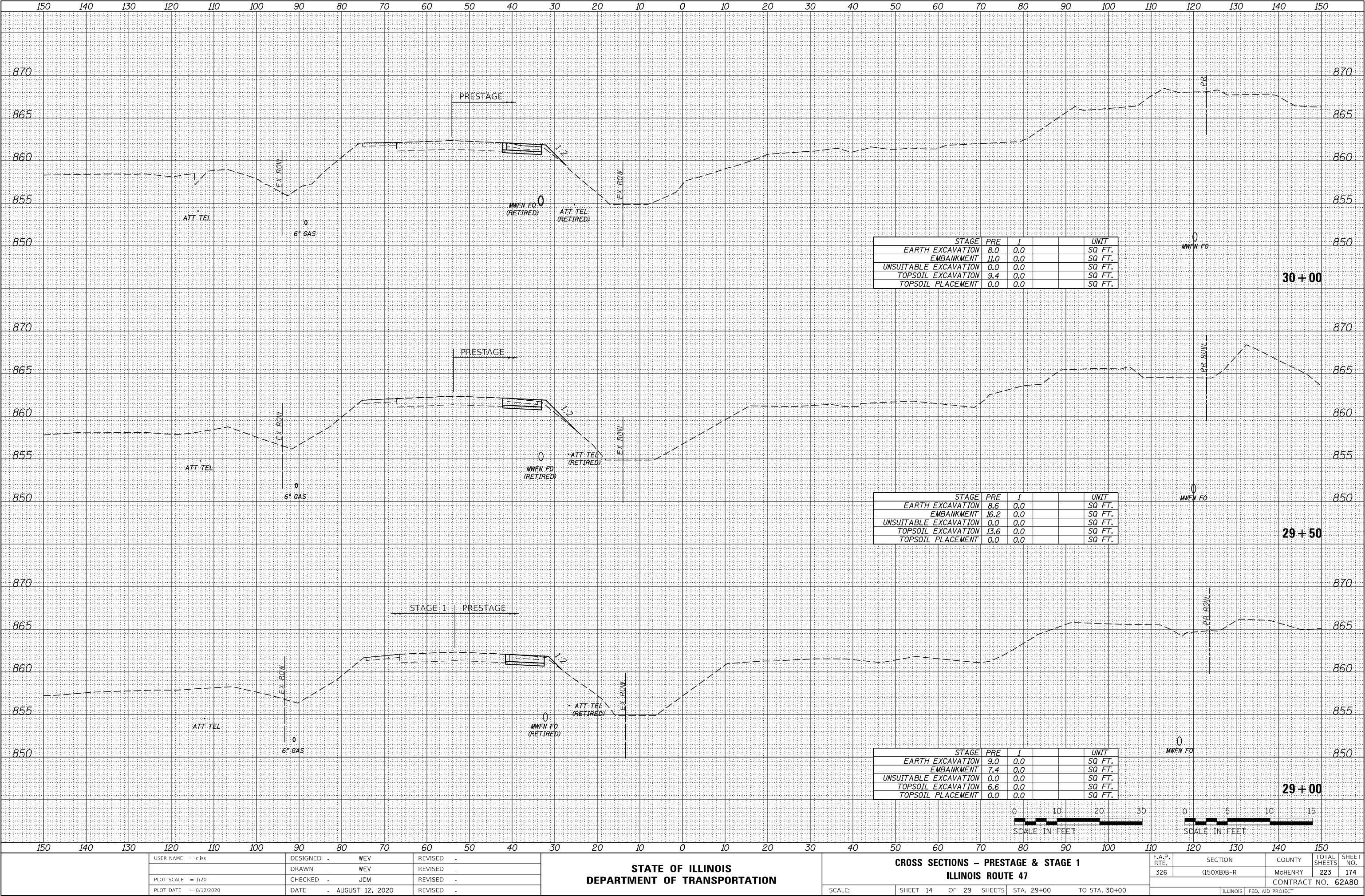
CROSS SECTIONS - PRESTAGE & STAGE 1			
ILLINOIS ROUTE 47			
SCALE:	SHEET 13 OF 29 SHEETS	STA. 27+50 TO STA. 28+50	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(150X8)B-R	McHENRY	223	173
				CONTRACT NO. 62A80
				ILLINOIS FED. AID PROJECT

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

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

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PLOT DATE = 8/12/2020	DATE - AUGUST 12, 2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

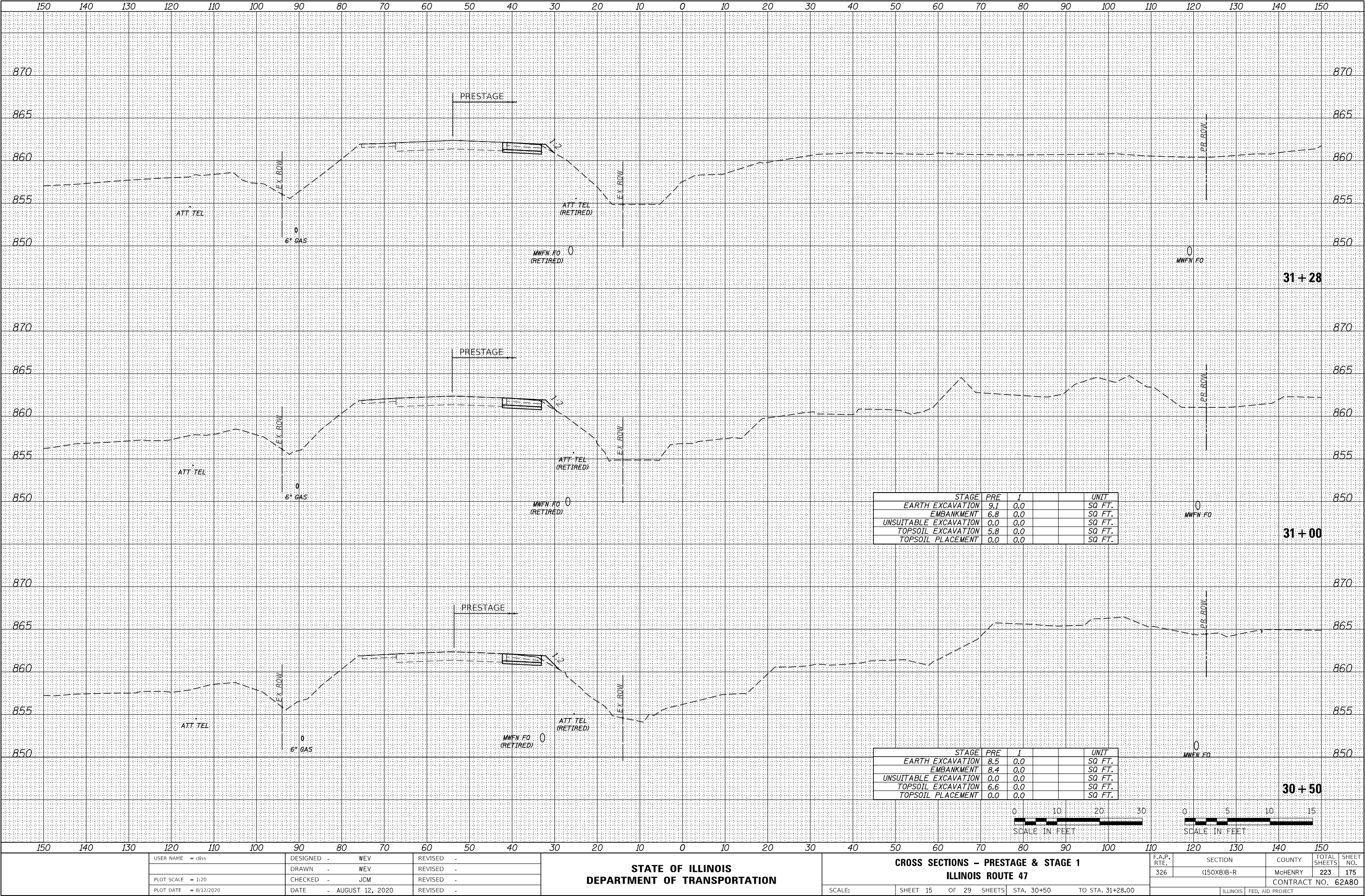
CROSS SECTIONS - PRESTAGE & STAGE 1			
ILLINOIS ROUTE 47			
SCALE:	SHEET 14 OF 29 SHEETS	STA. 29+00 TO STA. 30+00	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(150XB)B-R	McHENRY	223	174
CONTRACT NO. 62A80				
ILLINOIS FED. AID PROJECT				

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

ORIGINAL SURVEY	BY	DATE
	SURVEYED	
	PLOTTED	
	TEMPLATE	
NOTE BOOK	AREAS	CHECKED
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	DRAWN - WEV	REVISED -
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PLOT DATE = 8/12/2020	DATE - AUGUST 12, 2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

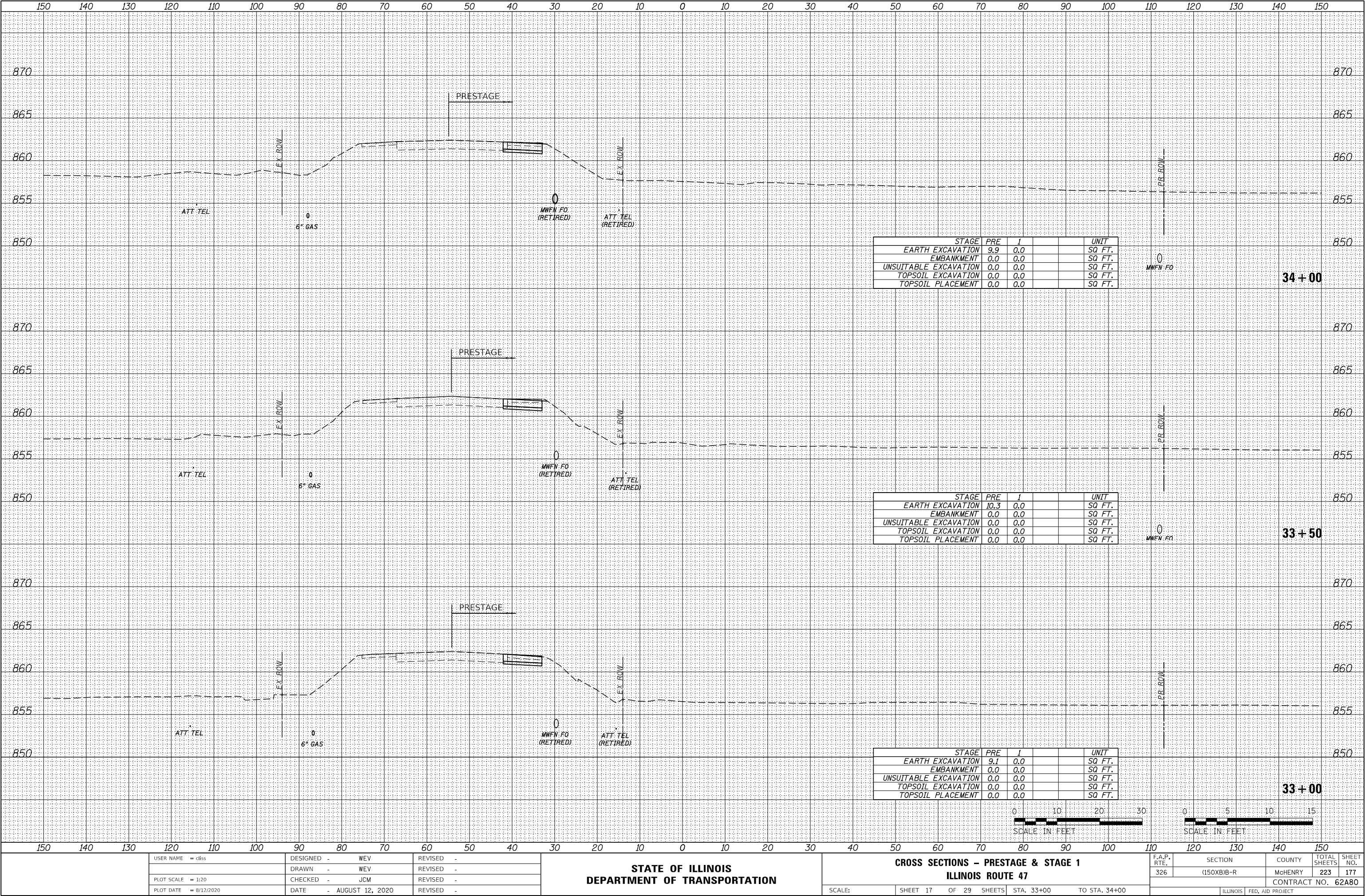
CROSS SECTIONS - PRESTAGE & STAGE 1			
ILLINOIS ROUTE 47			
SCALE:	SHEET 15 OF 29 SHEETS	STA. 30+50	TO STA. 31+28.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(150XB)B-R	McHENRY	223	175
				CONTRACT NO. 62A80
				ILLINOIS FED. AID PROJECT

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

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

MODEL \$MODELNAME\$
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PLOT DATE = 8/12/2020	DATE - AUGUST 12, 2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - PRESTAGE & STAGE 1
ILLINOIS ROUTE 47

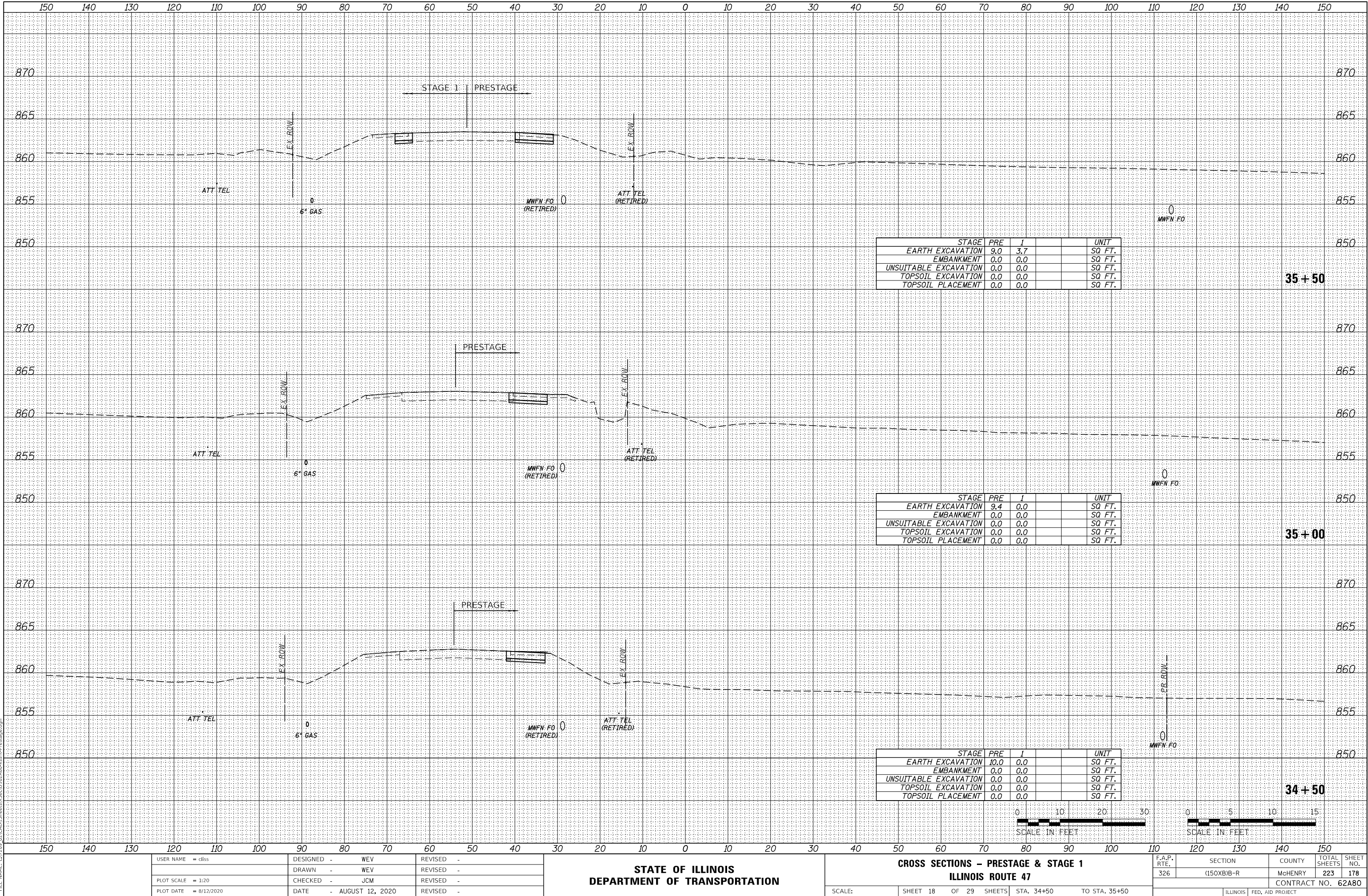
SCALE: SHEET 17 OF 29 SHEETS STA. 33+00 TO STA. 34+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(150XB)B-R	McHENRY	223	177
				CONTRACT NO. 62A80
				ILLINOIS FED. AID PROJECT

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

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

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PLOT DATE = 8/12/2020	DATE - AUGUST 12, 2020	REVISED -

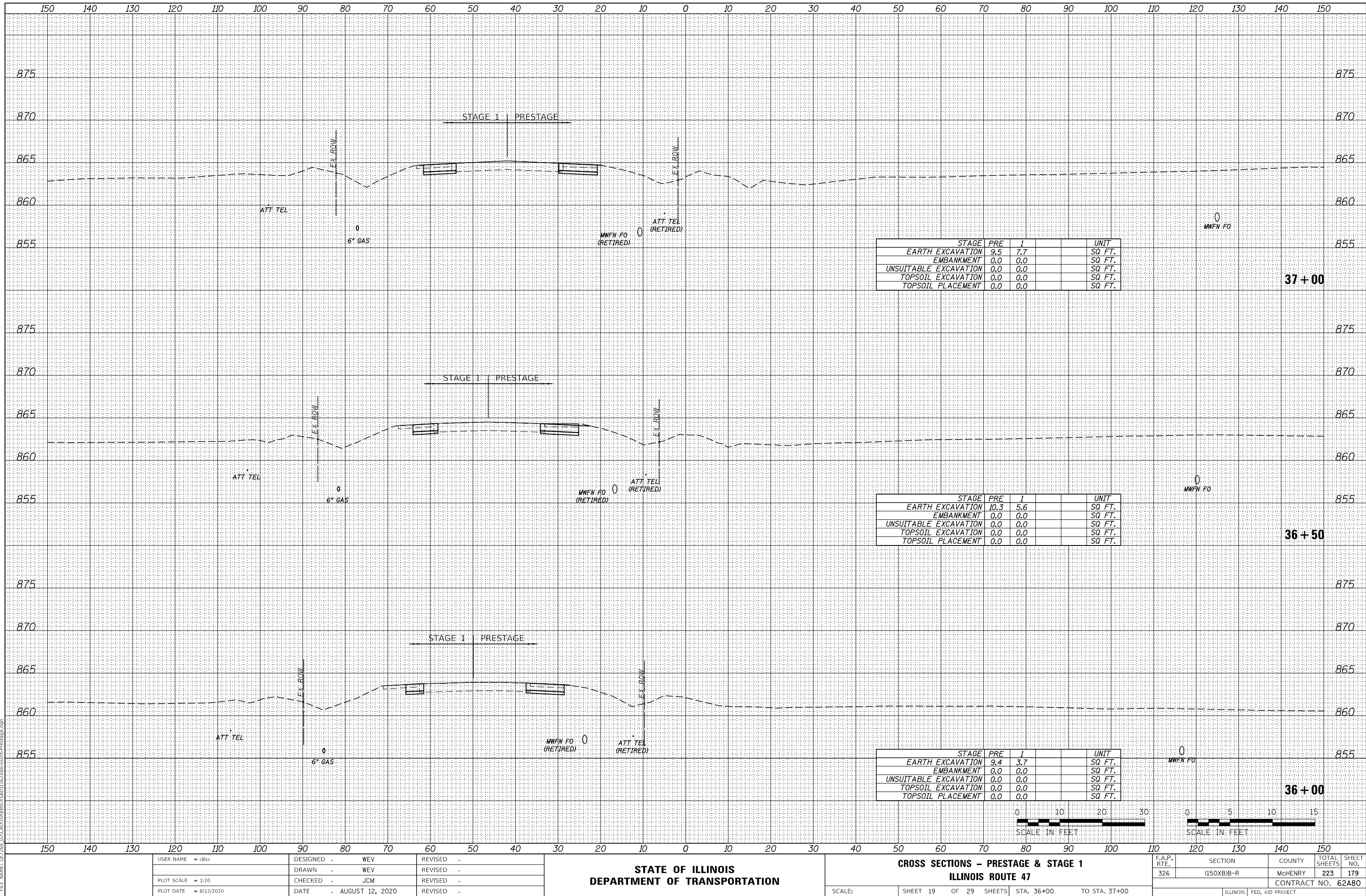
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - PRESTAGE & STAGE 1 ILLINOIS ROUTE 47			
SCALE:	SHEET 18 OF 29 SHEETS	STA. 34+50 TO STA. 35+50	

F.A.P. RTE. 326	SECTION (150XB)B-R	COUNTY McHENRY	TOTAL SHEETS 223	SHEET NO. 178
CONTRACT NO. 62A80				
ILLINOIS FED. AID PROJECT				

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

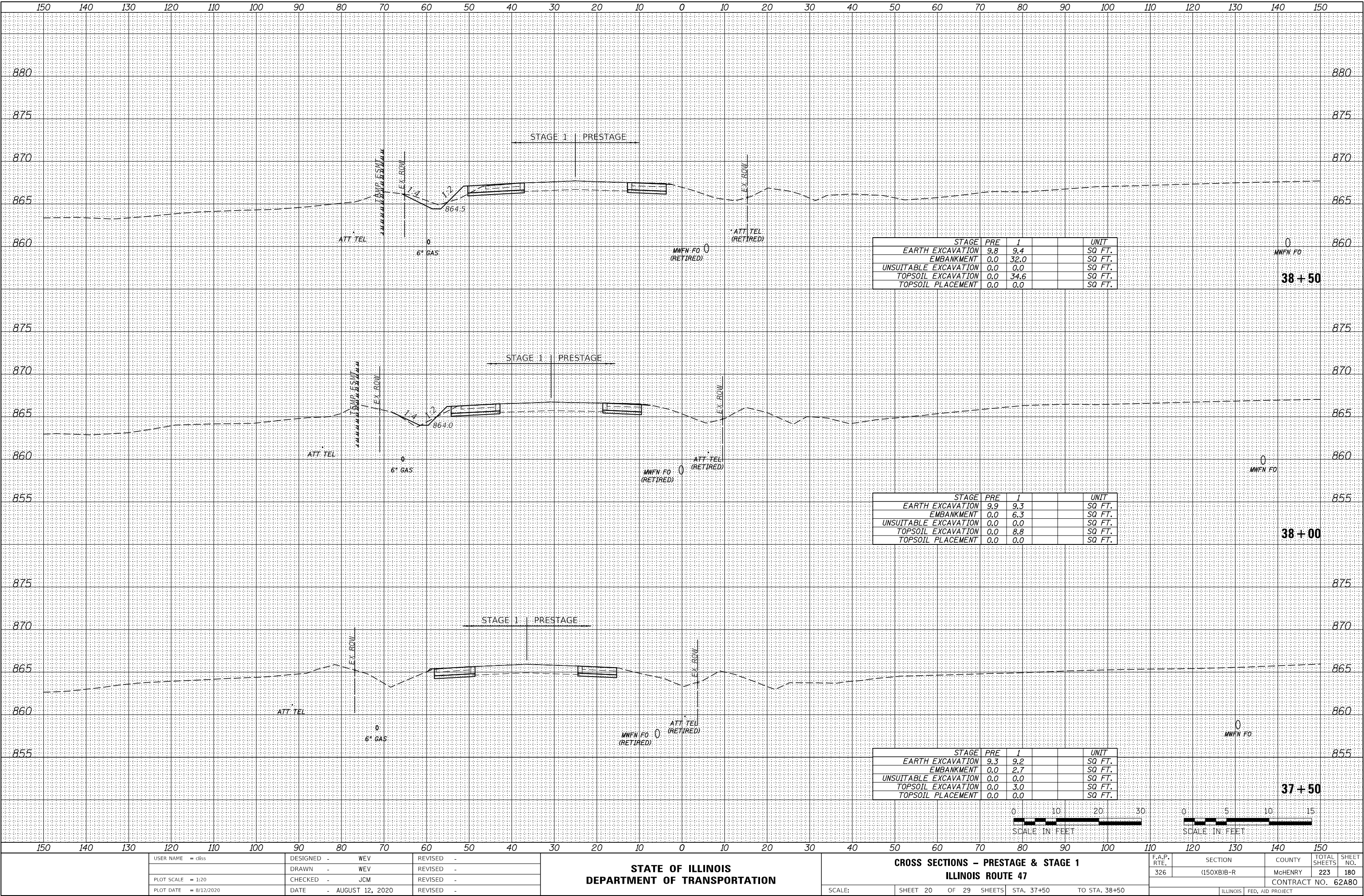
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FINAL SURVEY	DATE
	BY
	SURVEYED
	PLOTTED
	TEMPLATE
NO.	NOTE BOOK
	AREAS CHECKED

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

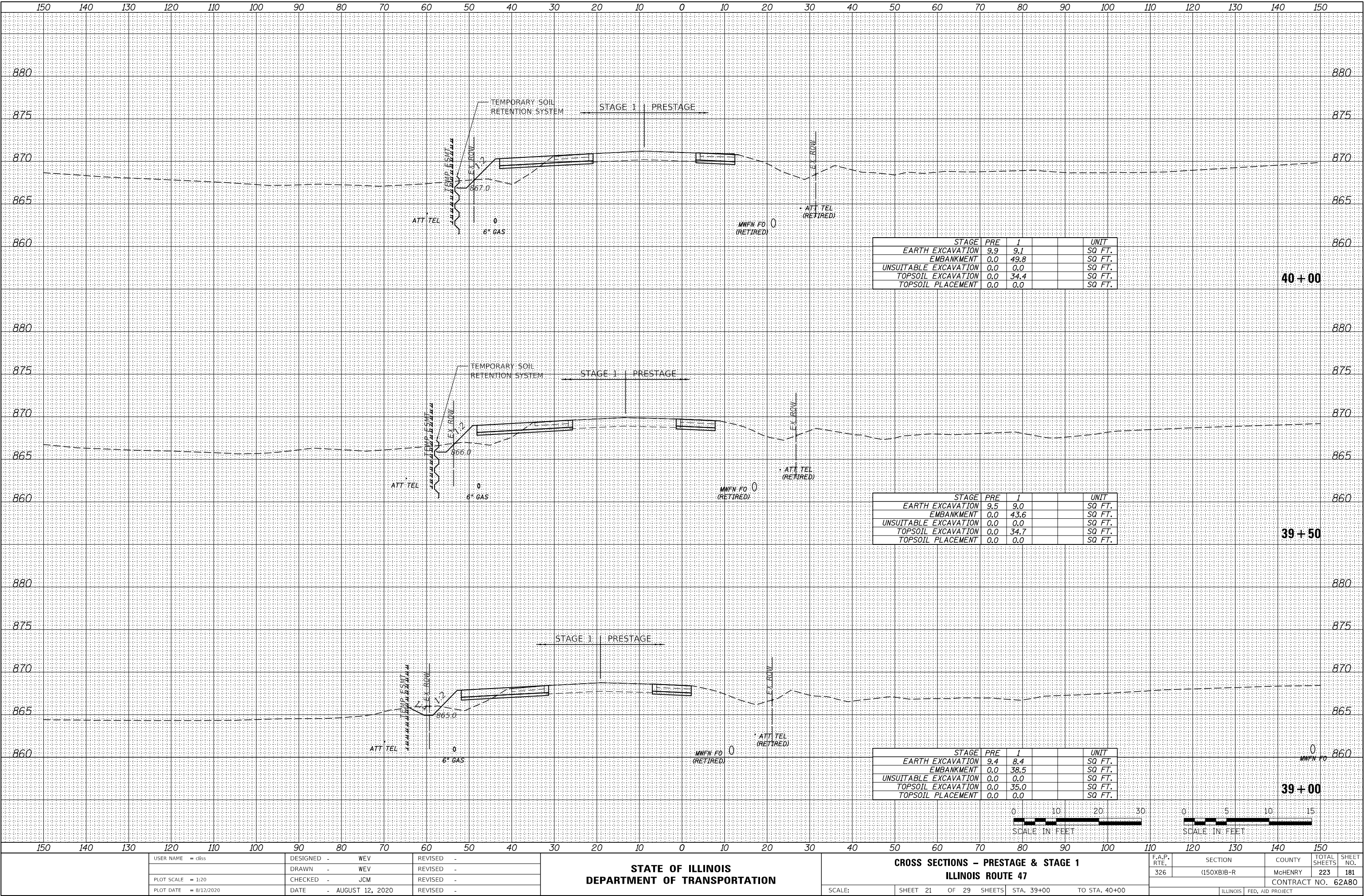
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FINAL SURVEY	BY	DATE	SURVEYED	PLOTTED	TEMPLATE	AREAS	CHECKED
NO.	NOTE BOOK						

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

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

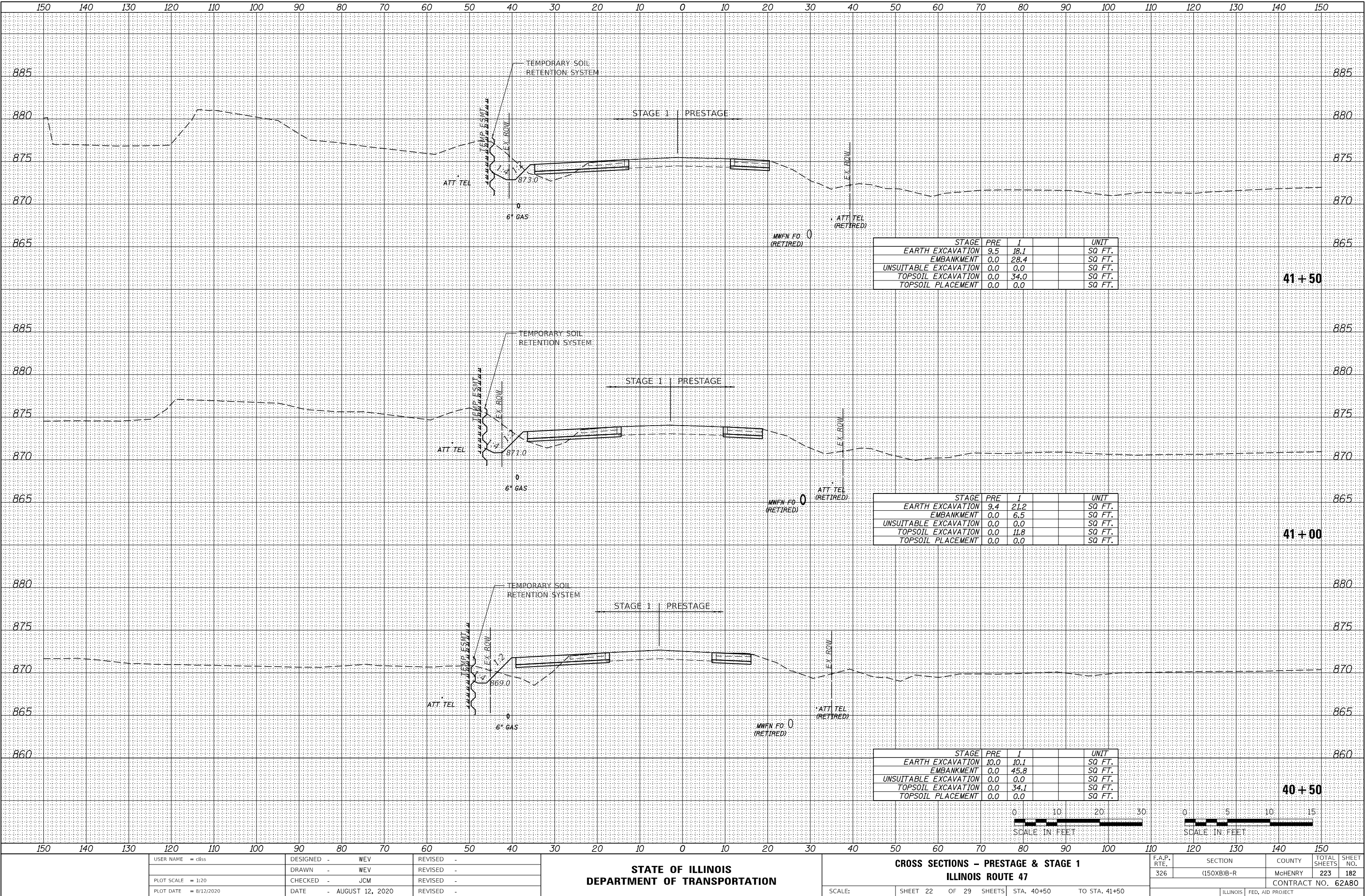
CROSS SECTIONS - PRESTAGE & STAGE 1			
ILLINOIS ROUTE 47			
SCALE:	SHEET 21 OF 29 SHEETS	STA. 39+00 TO STA. 40+00	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(150XB)B-R	McHENRY	223	181
				CONTRACT NO. 62A80
				ILLINOIS FED. AID PROJECT

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

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

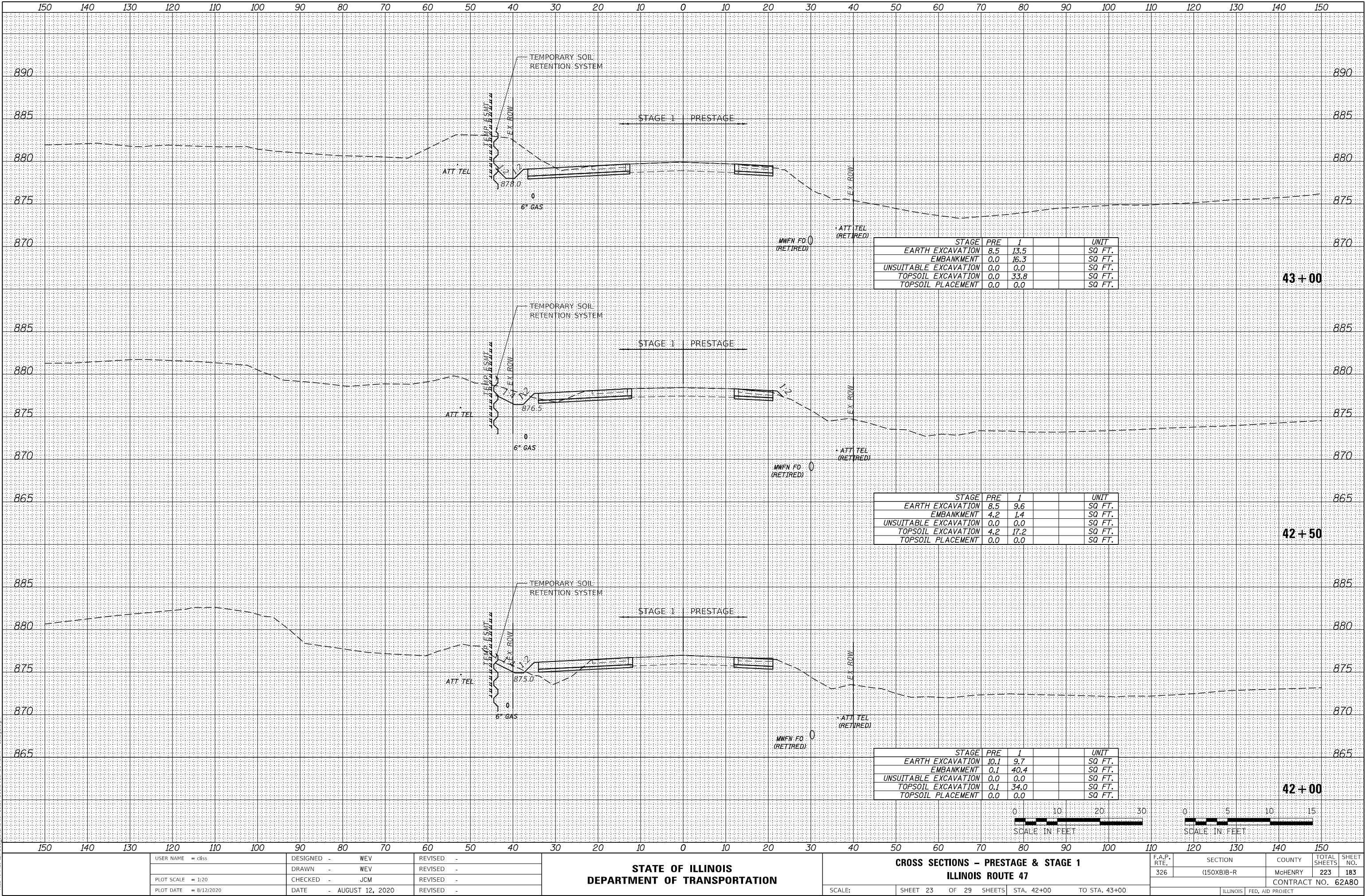
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FINAL SURVEY	BY	DATE	SURVEYED	PLOTTED	TEMPLATE	AREAS	CHECKED
NO.	NOTE BOOK						

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

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	DRAWN - WEV	REVISED -
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PLOT DATE = 8/12/2020	DATE - AUGUST 12, 2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

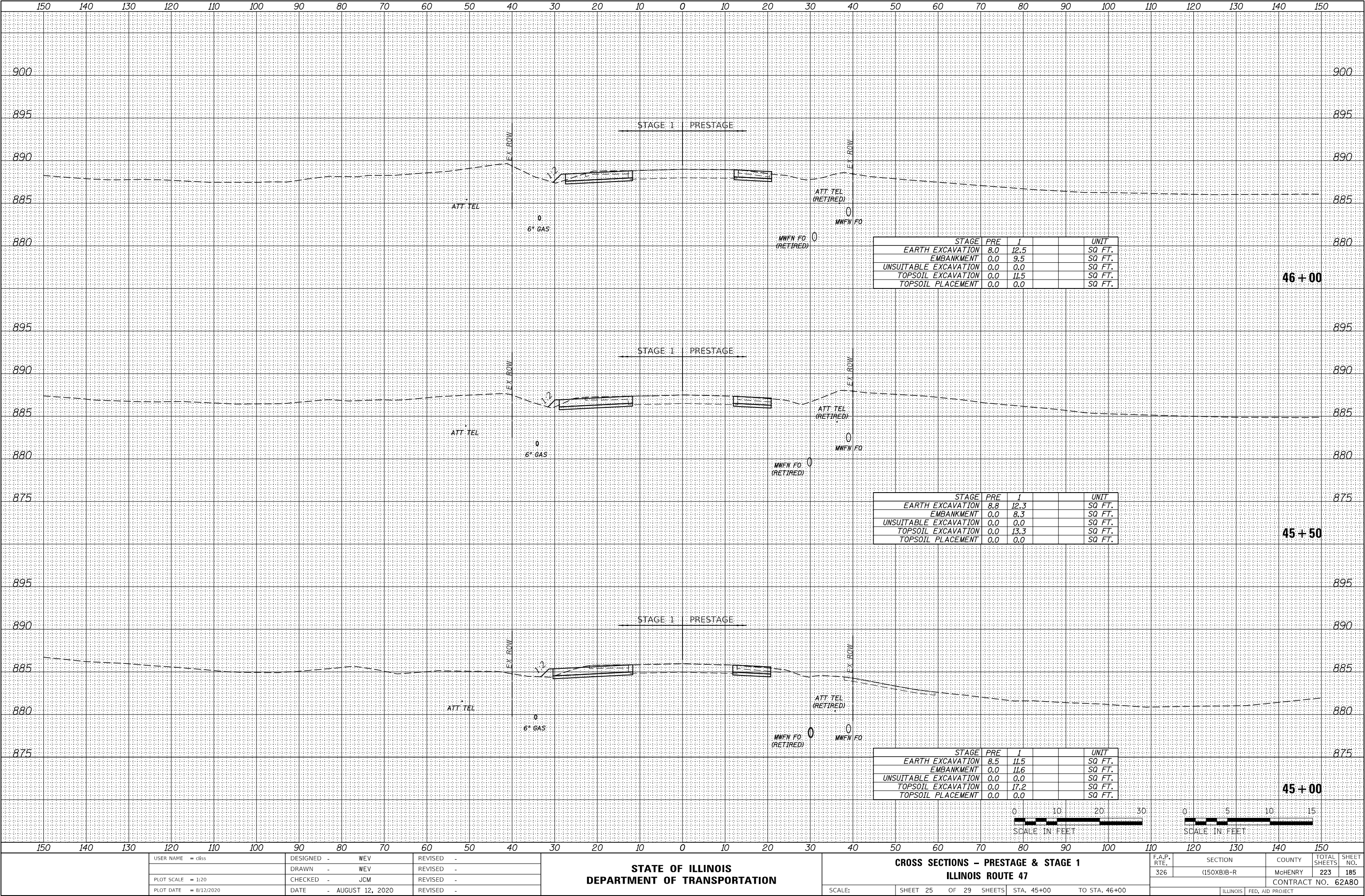
CROSS SECTIONS - PRESTAGE & STAGE 1			
ILLINOIS ROUTE 47			
SCALE:	SHEET 23 OF 29 SHEETS	STA. 42+00 TO STA. 43+00	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(150XB)B-R	McHENRY	223	183
CONTRACT NO. 62A80				
ILLINOIS FED. AID PROJECT				

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

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

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	DRAWN - WEV	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

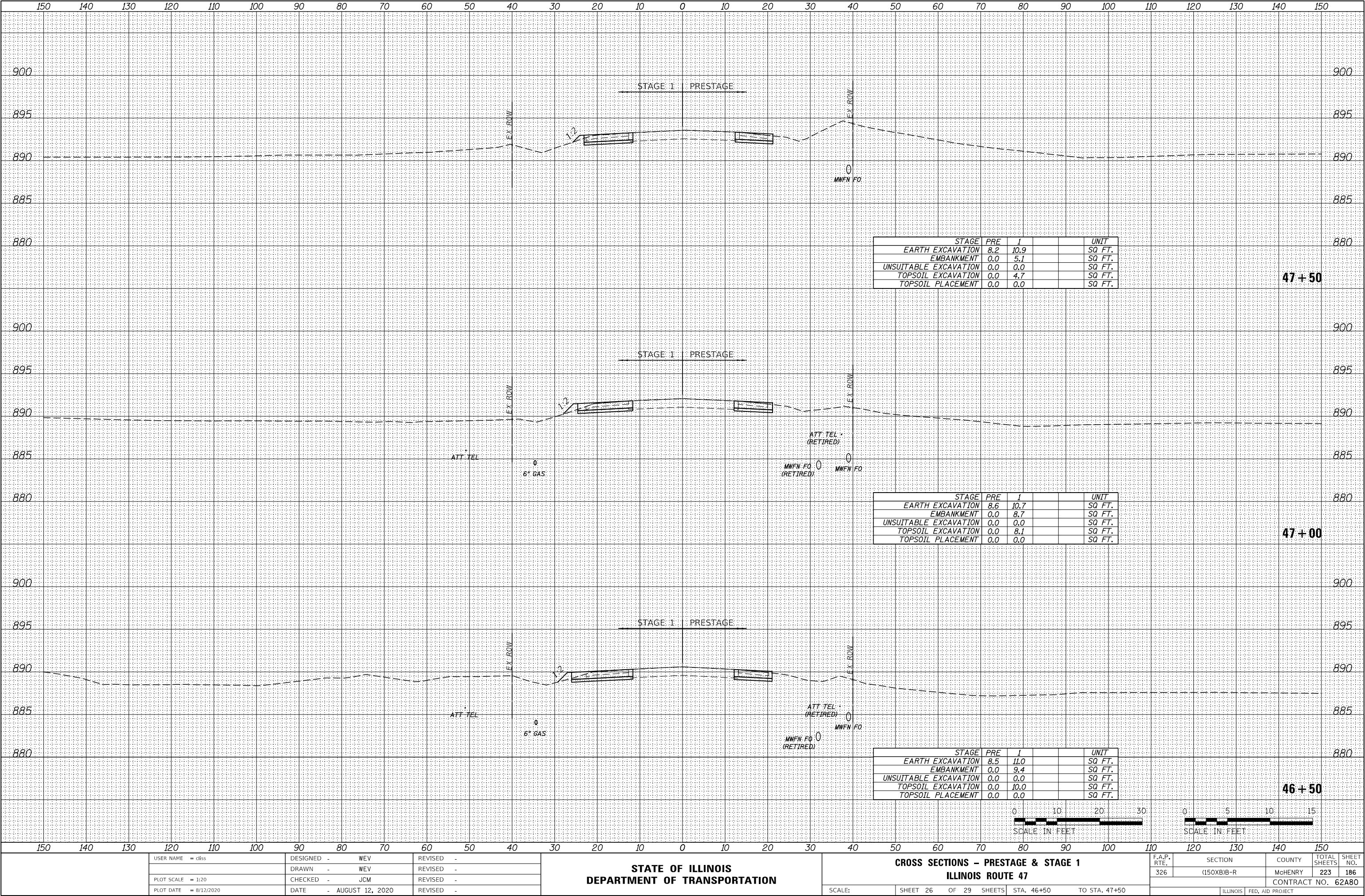
CROSS SECTIONS - PRESTAGE & STAGE 1			
ILLINOIS ROUTE 47			
SCALE:	SHEET 25	OF 29 SHEETS	STA. 45+00 TO STA. 46+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(150XB)B-R	McHENRY	223	185
CONTRACT NO. 62A80				
ILLINOIS				FED. AID PROJECT

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

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

MODEL: \$MODELNAME\$
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	DRAWN - WEV	REVISED -
PLOT SCALE = 1:20	CHECKED - JCM	REVISED -
PLOT DATE = 8/12/2020	DATE - AUGUST 12, 2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - PRESTAGE & STAGE 1
ILLINOIS ROUTE 47

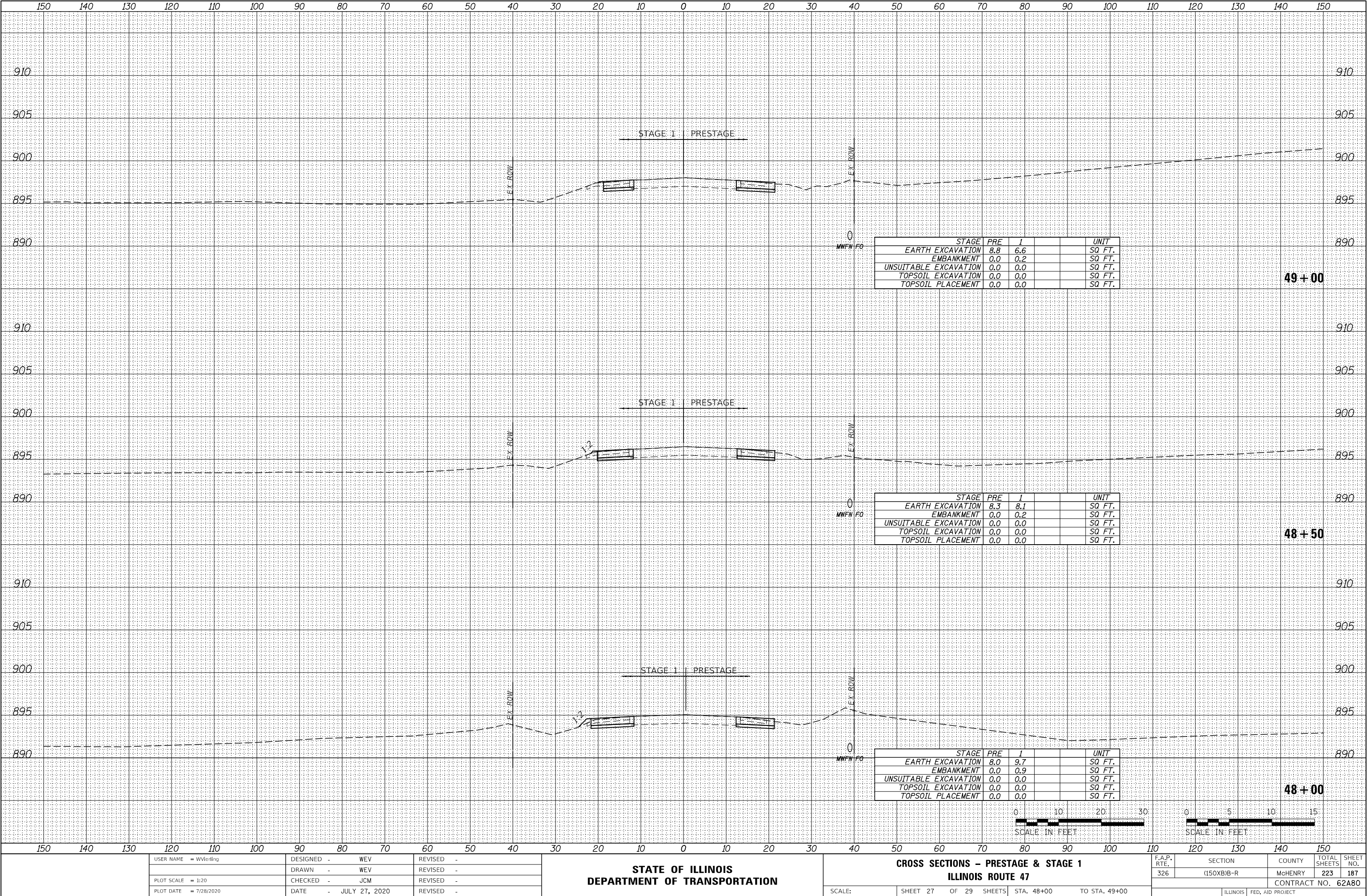
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(150XB)B-R	McHENRY	223	186
			CONTRACT NO.	62A80

ILLINOIS FED. AID PROJECT

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

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

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USER NAME = WVierling	DESIGNED - WEV	REVISED -
	DRAWN - WEV	REVISED -
PLOT SCALE = 1:20	CHECKED - JCM	REVISED -
PLOT DATE = 7/28/2020	DATE - JULY 27, 2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

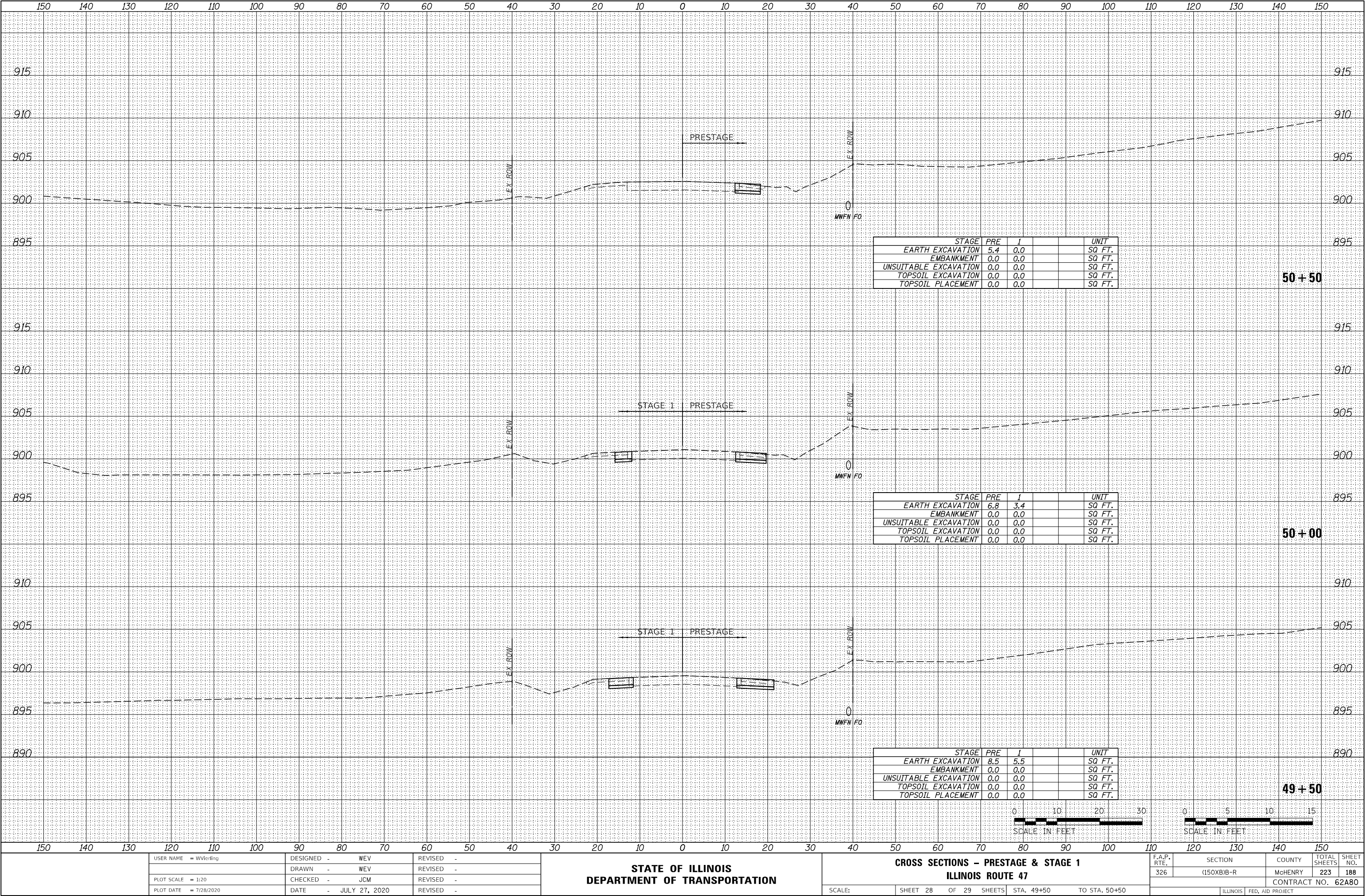
CROSS SECTIONS - PRESTAGE & STAGE 1			
ILLINOIS ROUTE 47			
SCALE:	SHEET 27 OF 29 SHEETS	STA. 48+00 TO STA. 49+00	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(150XB)B-R	McHENRY	223	187
CONTRACT NO. 62A80				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	BY	DATE
	SURVEYED	
	PLOTTED	
	TEMPLATE	
	AREAS	
NO.	CHECKED	

ORIGINAL SURVEY	BY	DATE
	SURVEYED	
	PLOTTED	
	TEMPLATE	
	AREAS	
NO.	CHECKED	

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USER NAME = WVierling	DESIGNED - WEV	REVISED -
	DRAWN - WEV	REVISED -
PLOT SCALE = 1:20	CHECKED - JCM	REVISED -
PLOT DATE = 7/28/2020	DATE - JULY 27, 2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - PRESTAGE & STAGE 1
ILLINOIS ROUTE 47

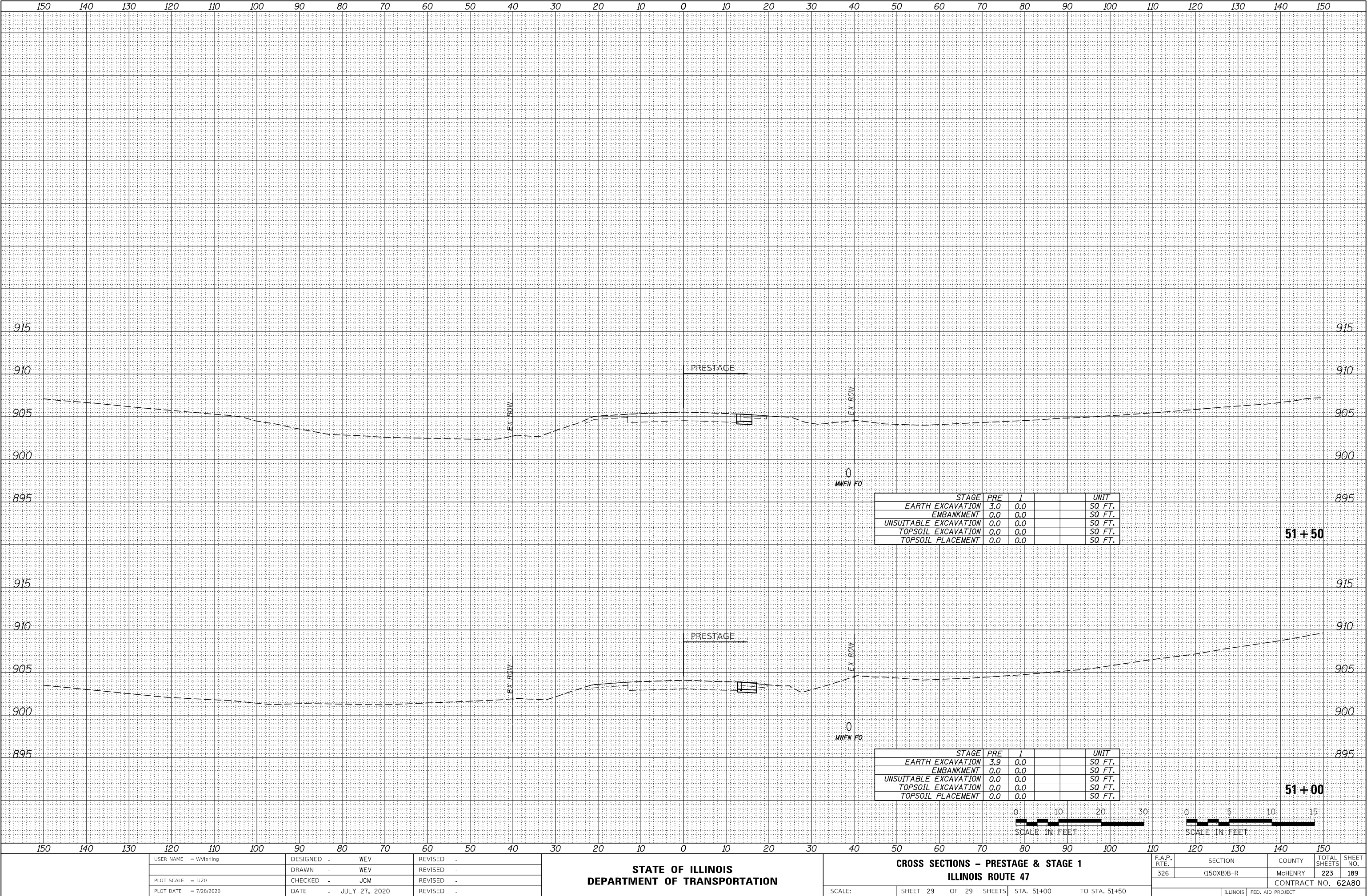
SCALE: SHEET 28 OF 29 SHEETS STA. 49+50 TO STA. 50+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(150XB)B-R	McHENRY	223	188
				CONTRACT NO. 62A80
				ILLINOIS FED. AID PROJECT

FINAL SURVEY	NO.	SURVEYED	BY	DATE	
					NOTED
					PLOTTED
					AREAS CHECKED

ORIGINAL SURVEY	NO.	SURVEYED	BY	DATE	
					NOTED
					PLOTTED
					AREAS CHECKED

MODEL \$MODELNAME\$
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USER NAME = WVerling	DESIGNED - WEV	REVISED -
	DRAWN - WEV	REVISED -
PLOT SCALE = 1:20	CHECKED - JCM	REVISED -
PLOT DATE = 7/28/2020	DATE - JULY 27, 2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

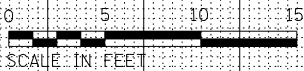
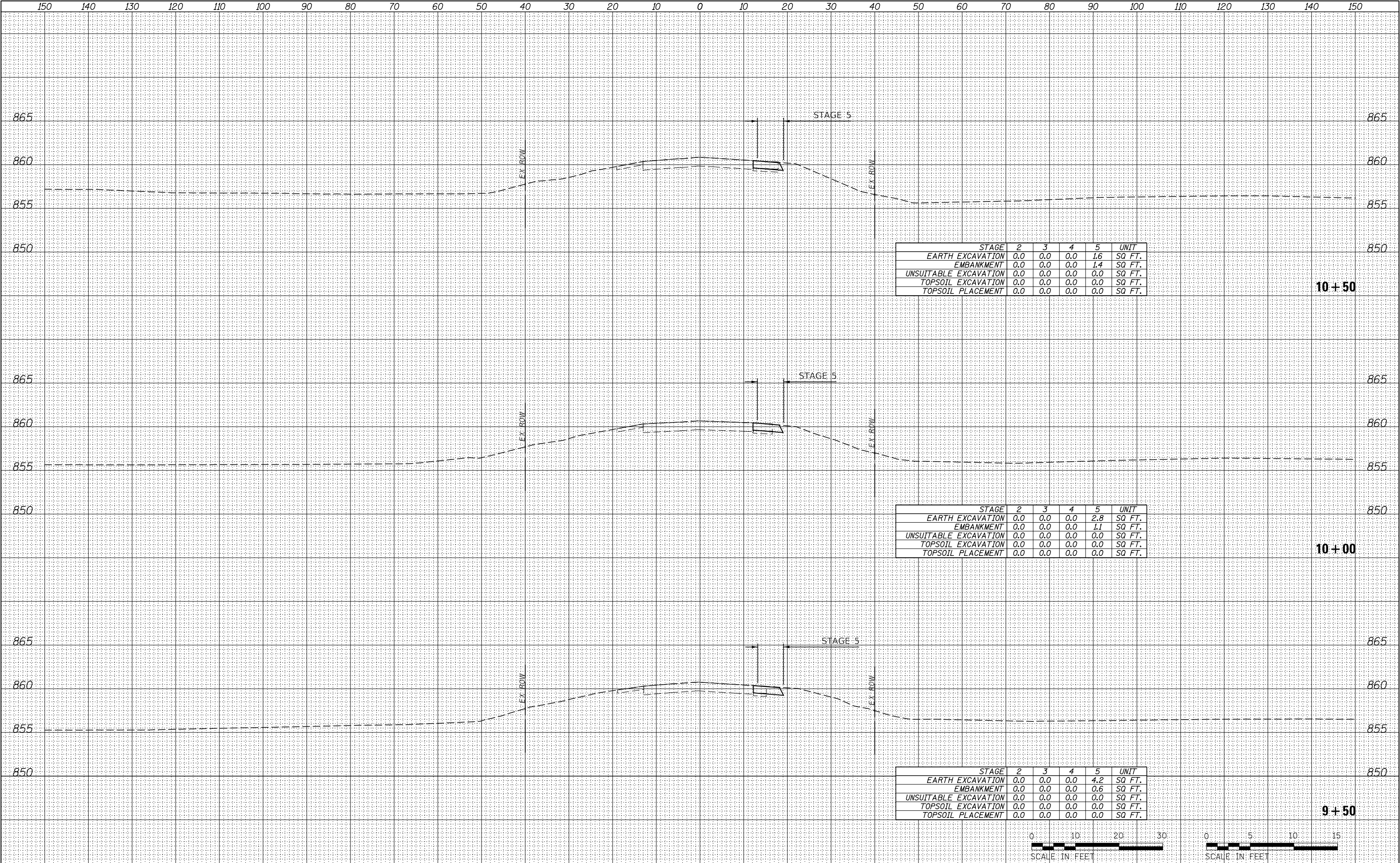
CROSS SECTIONS - PRESTAGE & STAGE 1			
ILLINOIS ROUTE 47			
SCALE:	SHEET 29 OF 29 SHEETS	STA. 51+00 TO STA. 51+50	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(150XB)B-R	McHENRY	223	189
				CONTRACT NO. 62A80
				ILLINOIS FED. AID PROJECT

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

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

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USER NAME = WVerling	DESIGNED - WEV	REVISED -
	DRAWN - WEV	REVISED -
PLOT SCALE = 1:20	CHECKED - JCM	REVISED -
PLOT DATE = 7/28/2020	DATE - JULY 27, 2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - STAGES 2-5
ILLINOIS ROUTE 47

SCALE: SHEET 1 OF 33 SHEETS STA. 9+50 TO STA. 10+50

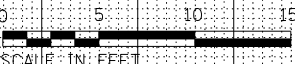
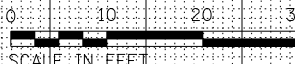
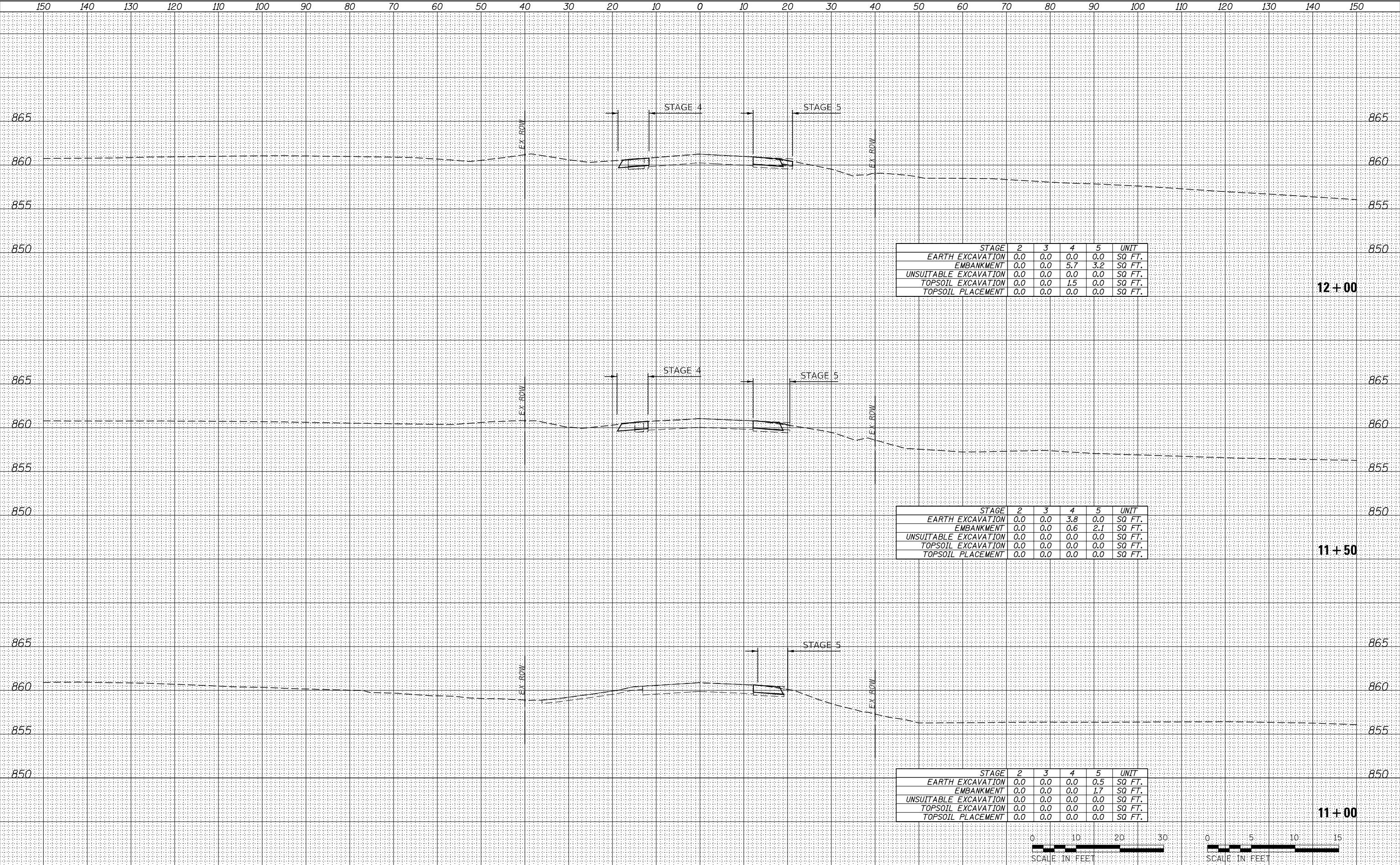
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(150XB)B-R	McHENRY	223	190
				CONTRACT NO. 62A80

ILLINOIS FED. AID PROJECT

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

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

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	DRAWN - WEV	REVISED -
PLOT SCALE = 1:20	CHECKED - JCM	REVISED -
PLOT DATE = 7/28/2020	DATE - JULY 27, 2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - STAGES 2-5
ILLINOIS ROUTE 47

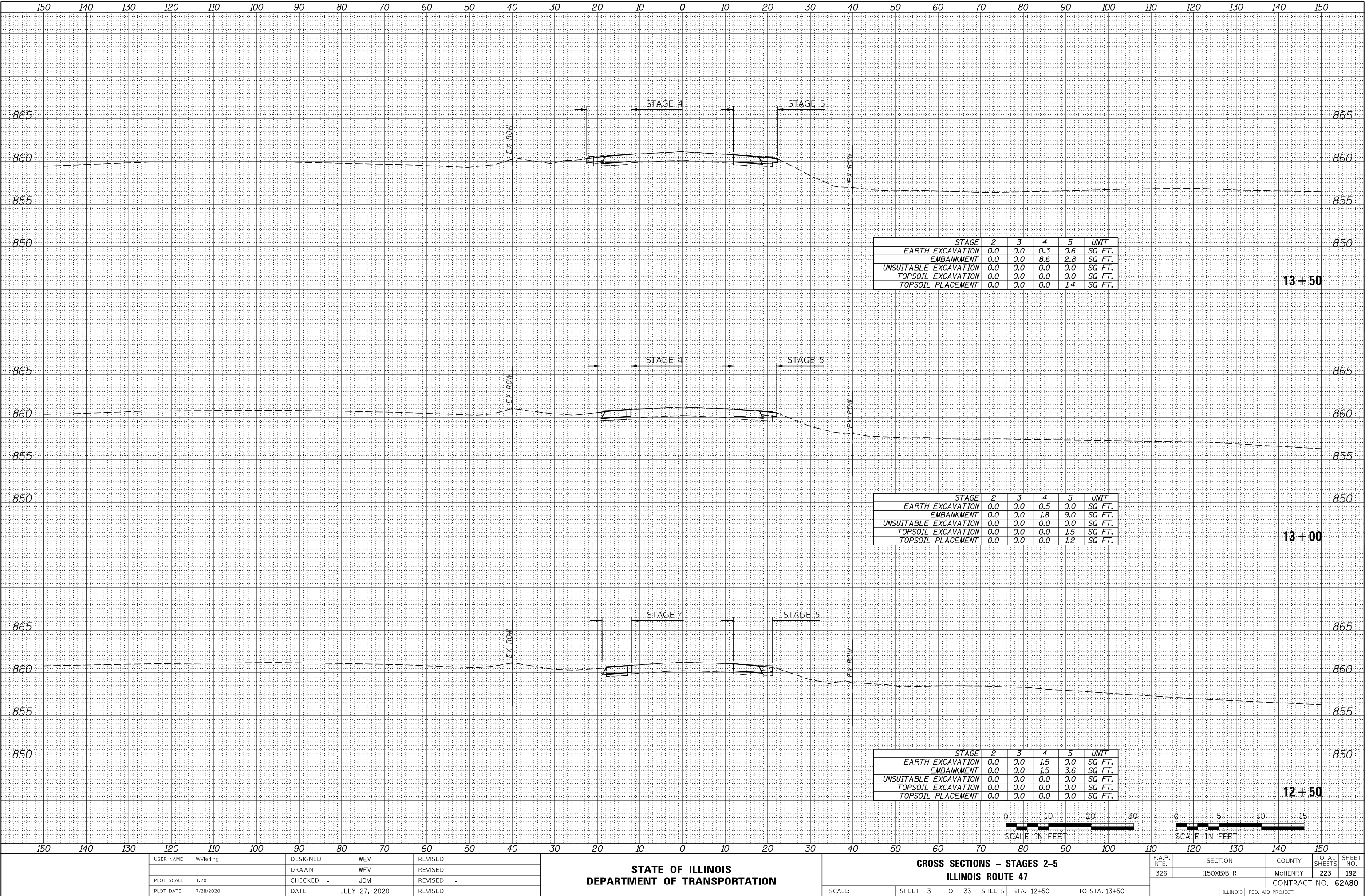
SCALE: SHEET 2 OF 33 SHEETS STA. 11+00 TO STA. 12+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(150XB)B-R	McHENRY	223	191
				CONTRACT NO. 62A80
ILLINOIS FED. AID PROJECT				

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

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

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USER NAME = WVerling	DESIGNED - WEV	REVISED -
	DRAWN - WEV	REVISED -
PLOT SCALE = 1:20	CHECKED - JCM	REVISED -
PLOT DATE = 7/28/2020	DATE - JULY 27, 2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - STAGES 2-5
ILLINOIS ROUTE 47

SCALE: SHEET 3 OF 33 SHEETS STA. 12+50 TO STA. 13+50

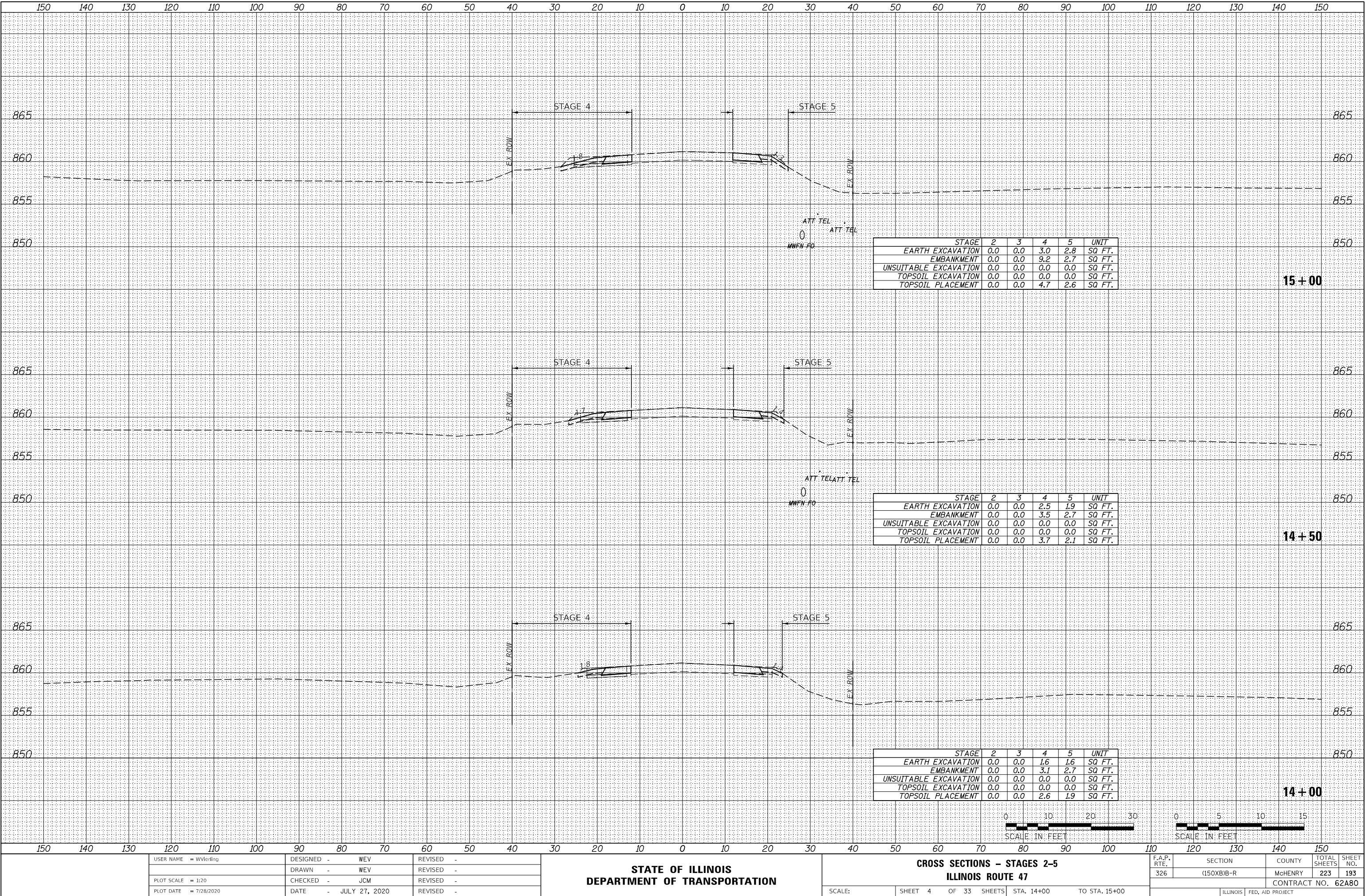
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(150XB)B-R	McHENRY	223	192
			CONTRACT NO.	62A80

ILLINOIS FED. AID PROJECT

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

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

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USER NAME = WVerling	DESIGNED - WEV	REVISED -
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PLOT SCALE = 1:20	CHECKED - JCM	REVISED -
PLOT DATE = 7/28/2020	DATE - JULY 27, 2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - STAGES 2-5
ILLINOIS ROUTE 47

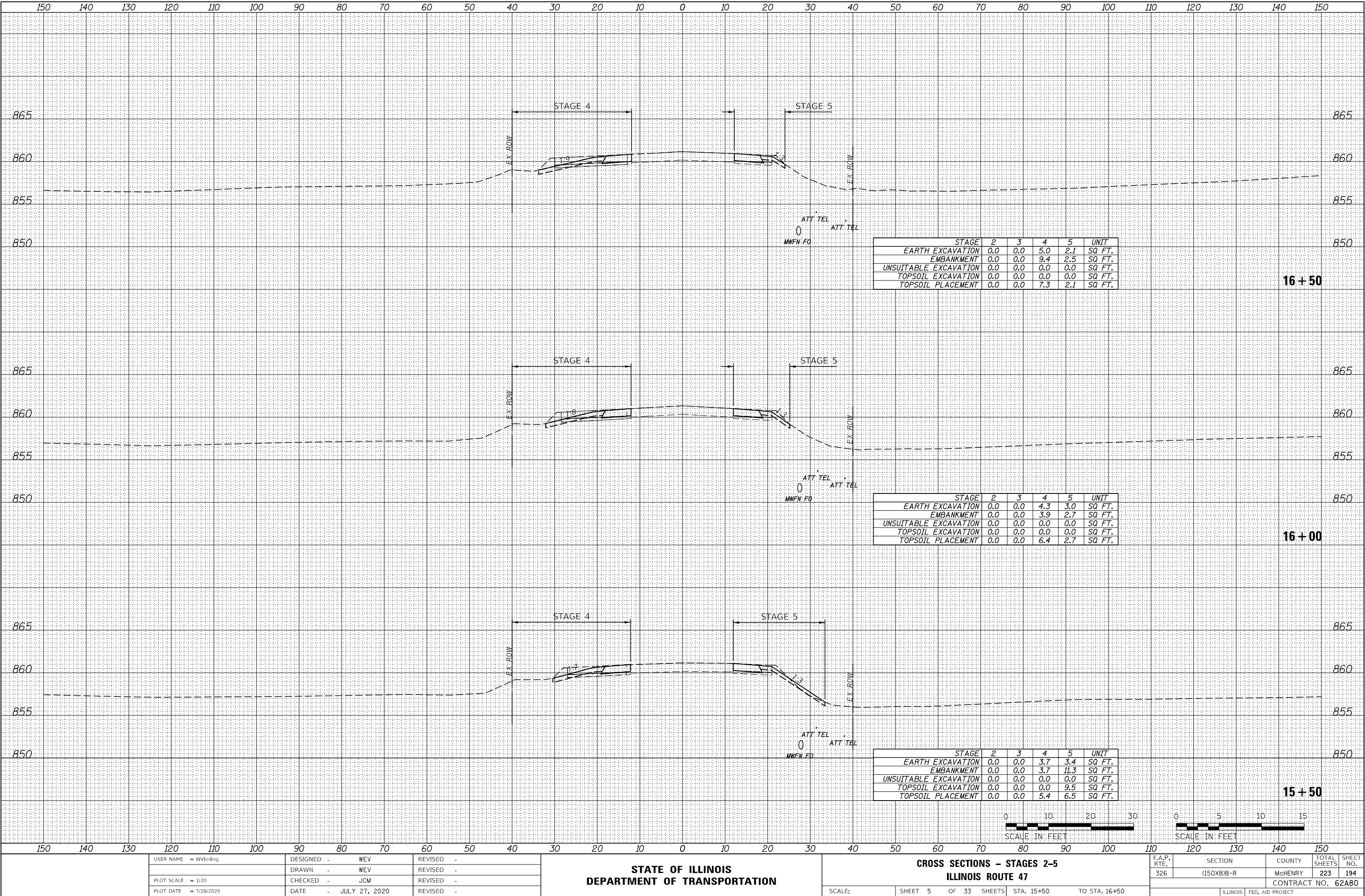
SCALE: SHEET 4 OF 33 SHEETS STA. 14+00 TO STA. 15+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(150XB)B-R	McHENRY	223	193
				CONTRACT NO. 62A80
				ILLINOIS FED. AID PROJECT

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

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

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USER NAME = WVierling	DESIGNED - WEV	REVISED -
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PLOT DATE = 7/28/2020	DATE - JULY 27, 2020	REVISED -

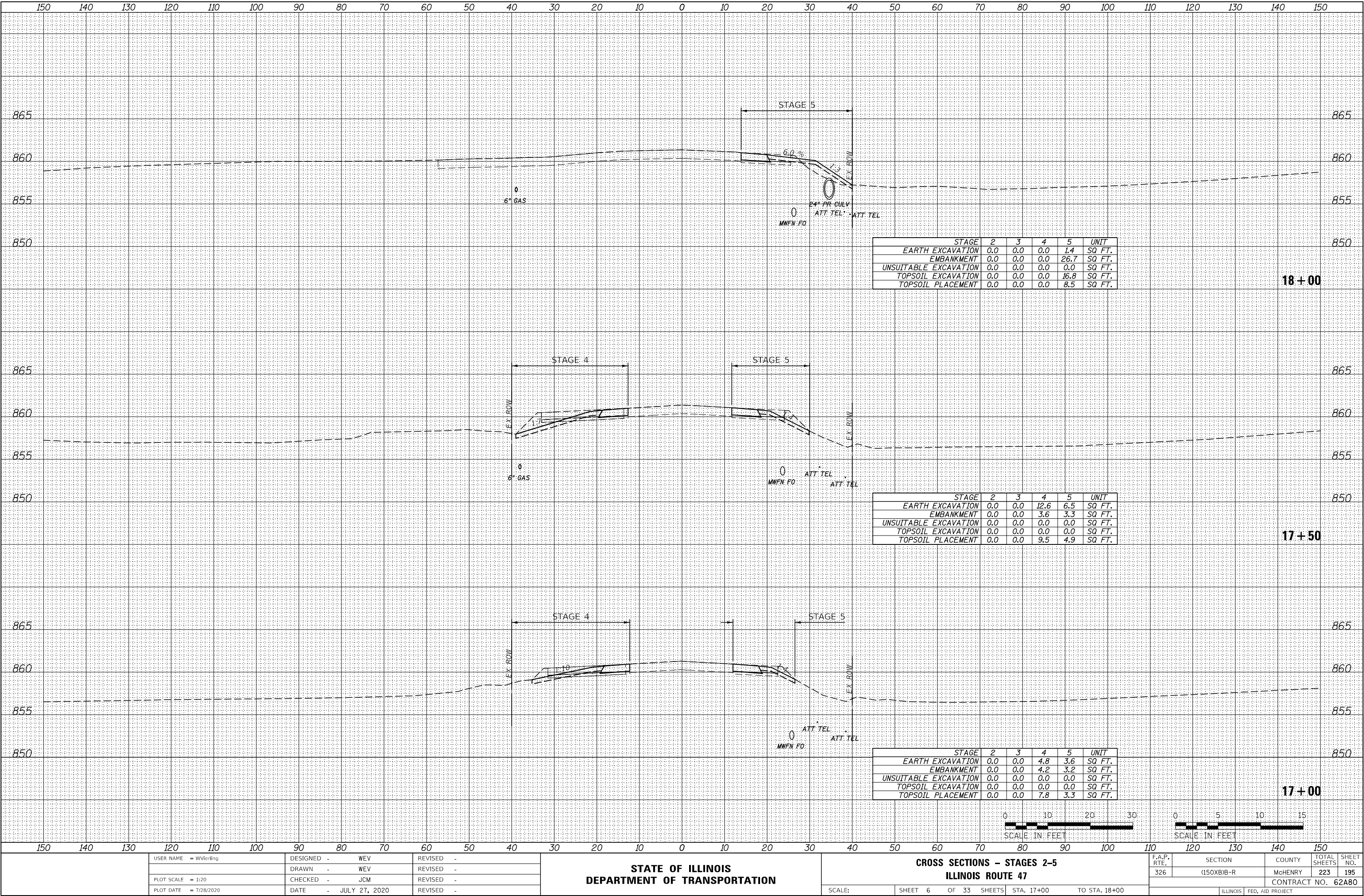
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - STAGES 2-5
ILLINOIS ROUTE 47

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(150XB)B-R	McHENRY	223	194
				CONTRACT NO. 62A80
ILLINOIS FED. AID PROJECT				

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

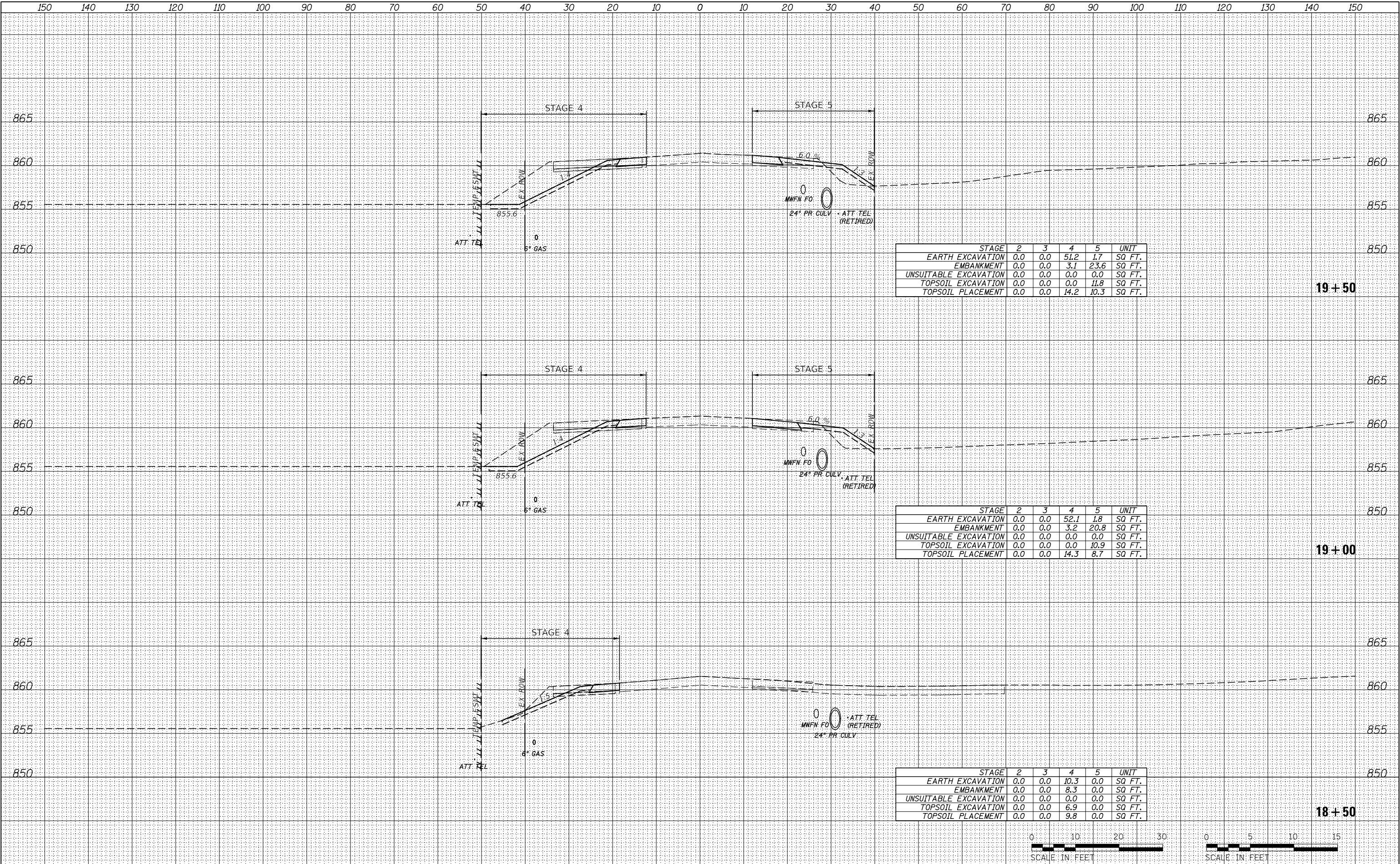
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FINAL SURVEY	BY	DATE
	SURVEYED	PLOTTED
	NOTE BOOK	TEMPLATE
	AREAS	CHECKED

ORIGINAL SURVEY	BY	DATE
	SURVEYED	PLOTTED
	NOTE BOOK	TEMPLATE
	AREAS	CHECKED

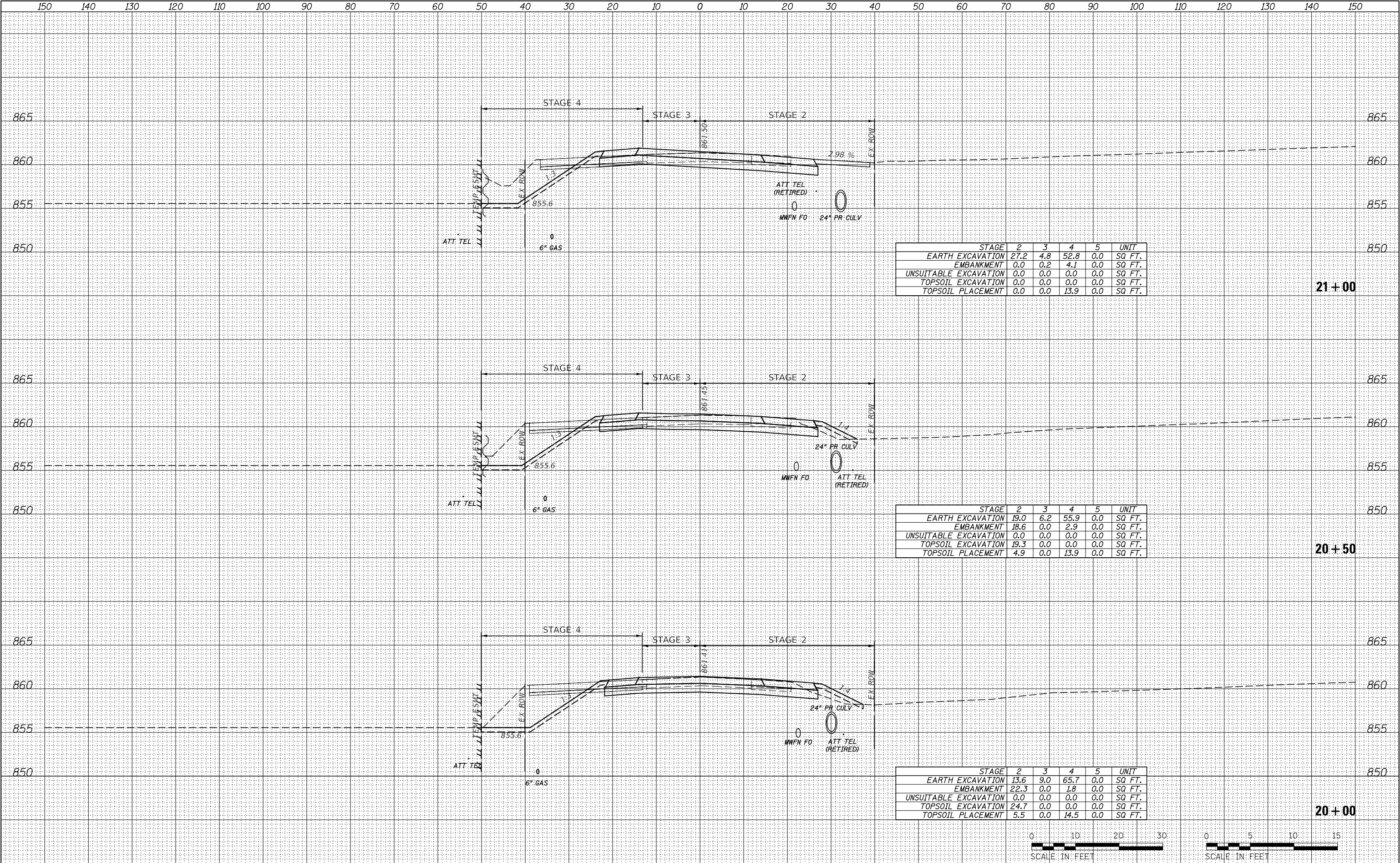
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FINAL SURVEY	DATE
	BY
	SURVEYED
	PLOTTED
NOTE BOOK	NO.
	TEMP
	AREAS
	CHECKED

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

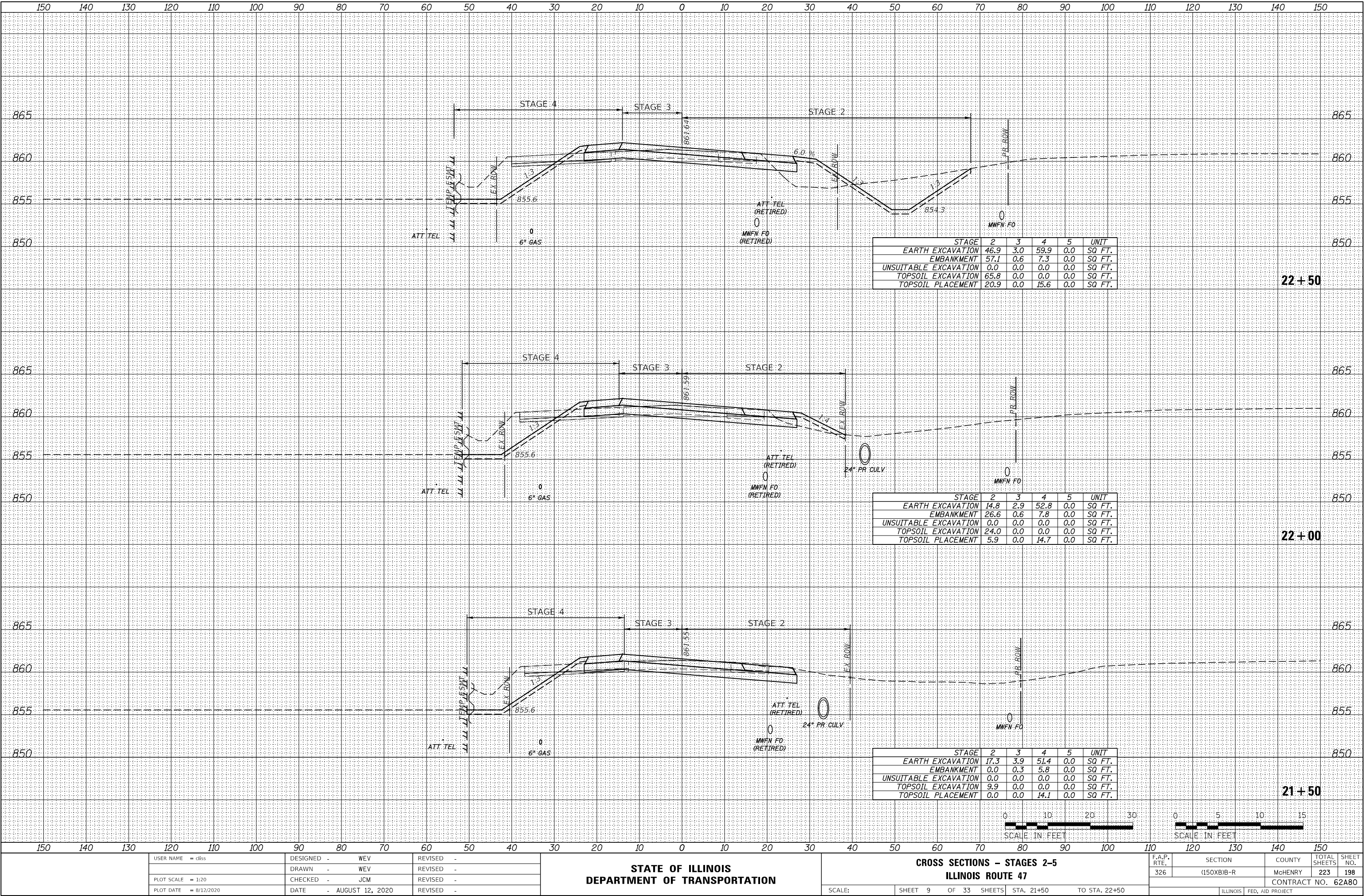
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FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

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

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PLOT SCALE = 1:20	CHECKED - JCM	REVISED -
PLOT DATE = 8/12/2020	DATE - AUGUST 12, 2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - STAGES 2-5
ILLINOIS ROUTE 47

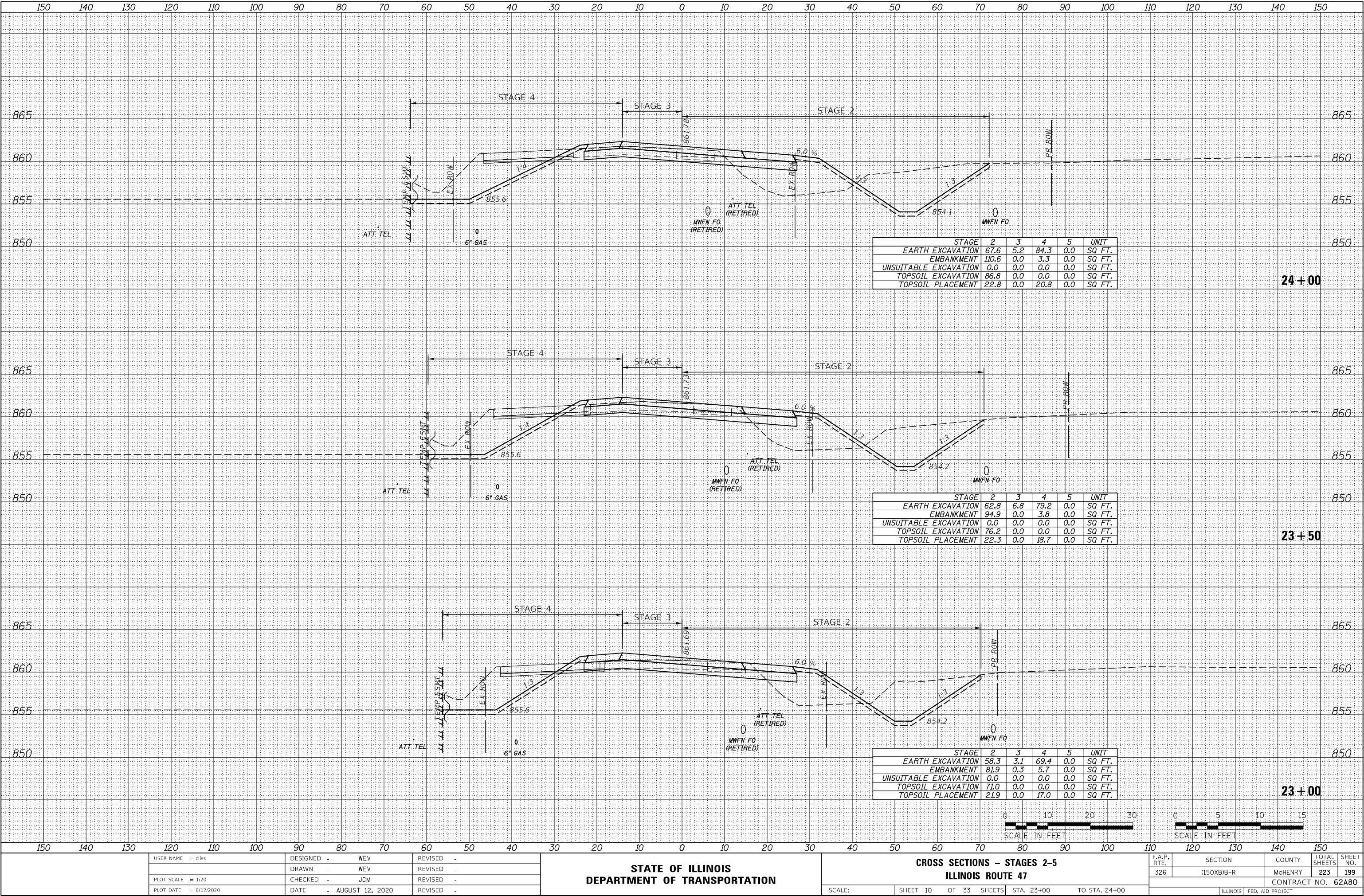
SCALE: SHEET 9 OF 33 SHEETS STA. 21+50 TO STA. 22+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(150XB)B-R	McHENRY	223	198
			CONTRACT NO.	62A80
		ILLINOIS	FED. AID PROJECT	

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

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

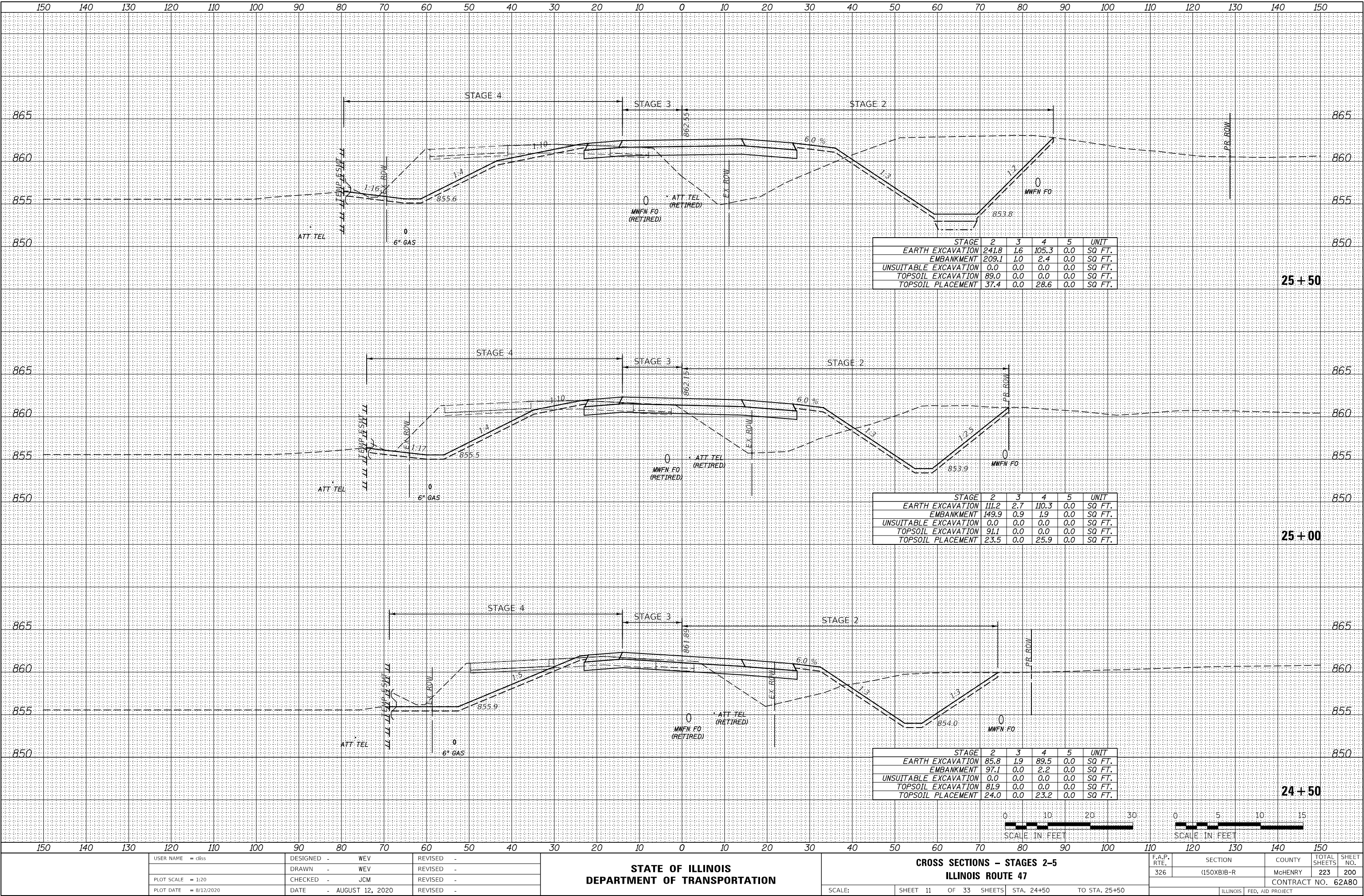
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FINAL SURVEY	DATE
	BY
	SURVEYED
	PLOTTED
NOTE BOOK	NO.
	TEMP
	AREAS
	CHECKED

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

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	DRAWN - WEV	REVISED -
PLOT SCALE = 1:20	CHECKED - JCM	REVISED -
PLOT DATE = 8/12/2020	DATE - AUGUST 12, 2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - STAGES 2-5			
ILLINOIS ROUTE 47			
SCALE:	SHEET 11	OF 33 SHEETS	STA. 24+50 TO STA. 25+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(150X8)B-R	McHENRY	223	200
CONTRACT NO. 62A80				
ILLINOIS				FED. AID PROJECT