

**HMG** HMG ENGINEERS, INC.  
 9360 HOLY CROSS LANE  
 BREESE, ILLINOIS 62230  
 Engineers & Surveyors [618] 526-9611  
 IL PROF. DESIGN FIRM NO. 184.000899

USER NAME = mobrien	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 2/16/2022	CHECKED -	REVISED -
	DATE -	REVISED -

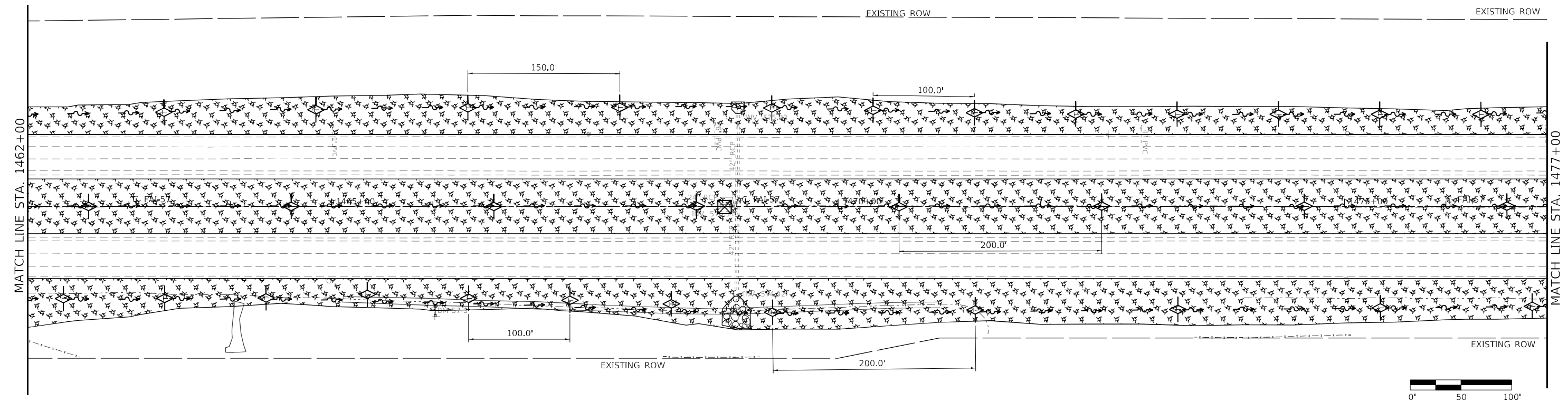
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL PLAN  
 FAI-57**

SCALE: 1" = 50'    SHEET 4    OF 12    SHEETS    STA. 1432+00    TO STA. 1462+00

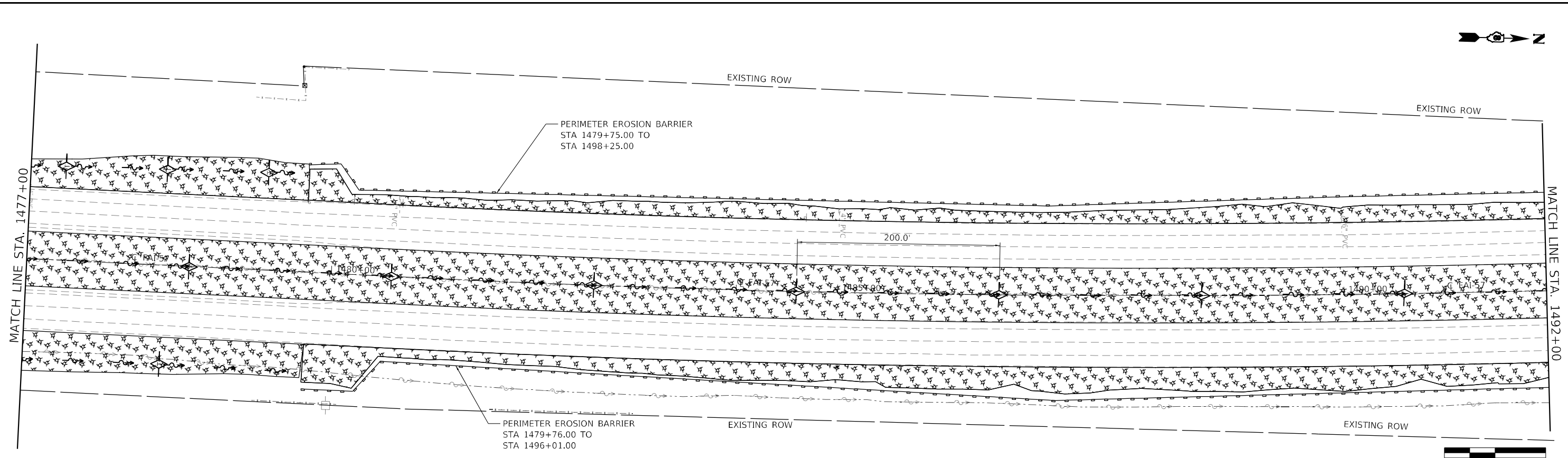
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	101
CONTRACT NO. 76F79				
ILLINOIS FED. AID PROJECT NHPK-KC9D(768)				



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 TEMPORARY DITCH CHECK  
  PERIMETER EROSION BARRIER  
  INLET PIPE AND PROTECTION

0' 50' 100'  
 GRAPHIC SCALE  
 1" = 50'



 TEMPORARY DITCH CHECK  
  PERIMETER EROSION BARRIER  
  INLET PIPE AND PROTECTION

0' 50' 100'  
 GRAPHIC SCALE  
 1" = 50'

MODEL: Default  
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 PLOT DATE = 2/16/2022

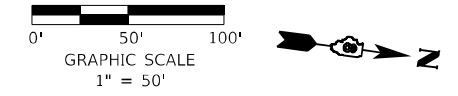
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

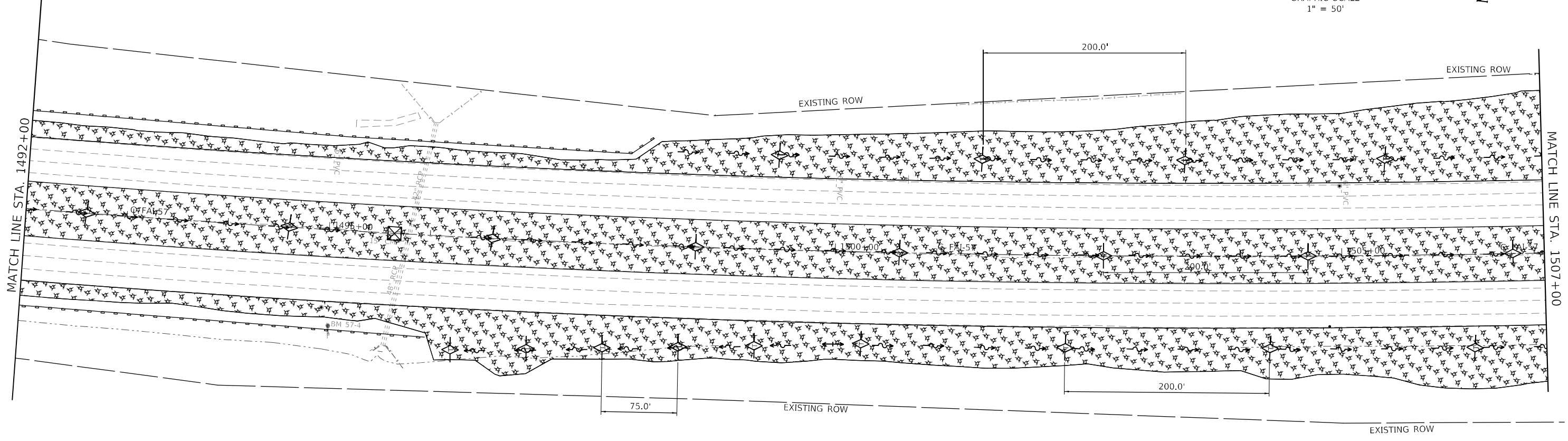
**EROSION CONTROL PLAN**  
**FAI-57**

SCALE: 1" = 50'    SHEET 5    OF 12 SHEETS    STA. 1462+00    TO STA. 1492+00

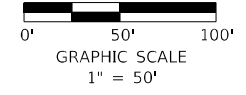
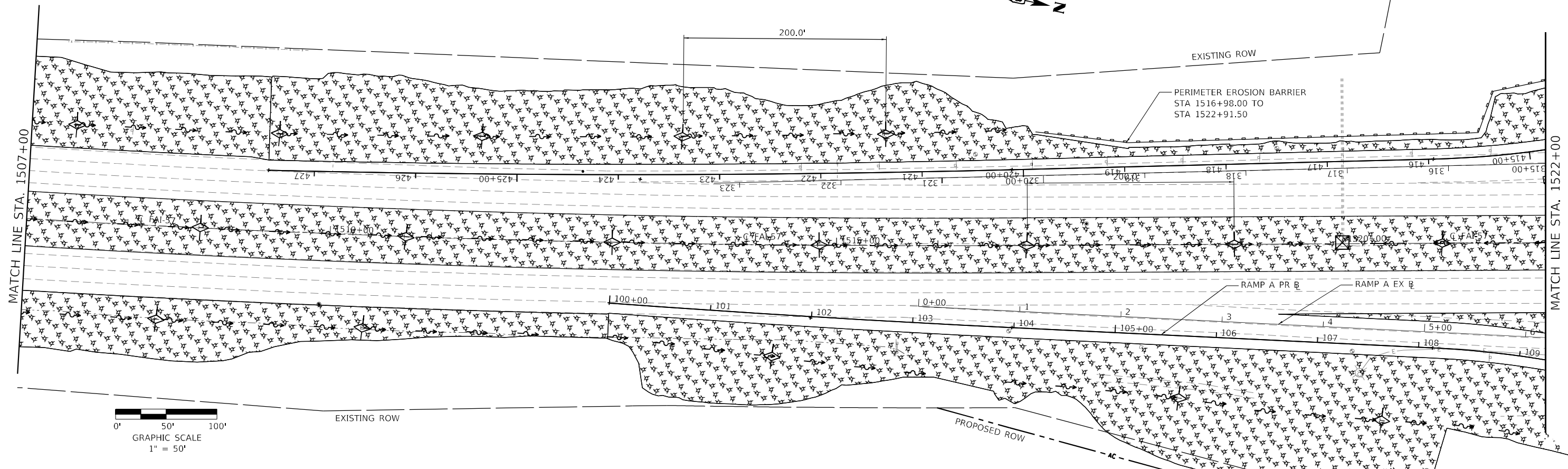
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	102
CONTRACT NO. 76F79				
ILLINOIS FED. AID PROJECT NHP-CC90(76B)				



TEMPORARY DITCH CHECK    
 PERIMETER EROSION BARRIER    
 INLET PIPE AND PROTECTION



TEMPORARY DITCH CHECK    
 PERIMETER EROSION BARRIER    
 INLET PIPE AND PROTECTION



MODEL: Default  
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USER NAME = mobrien  
 PLOT SCALE = 100,0000' / in.  
 PLOT DATE = 2/16/2022

DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

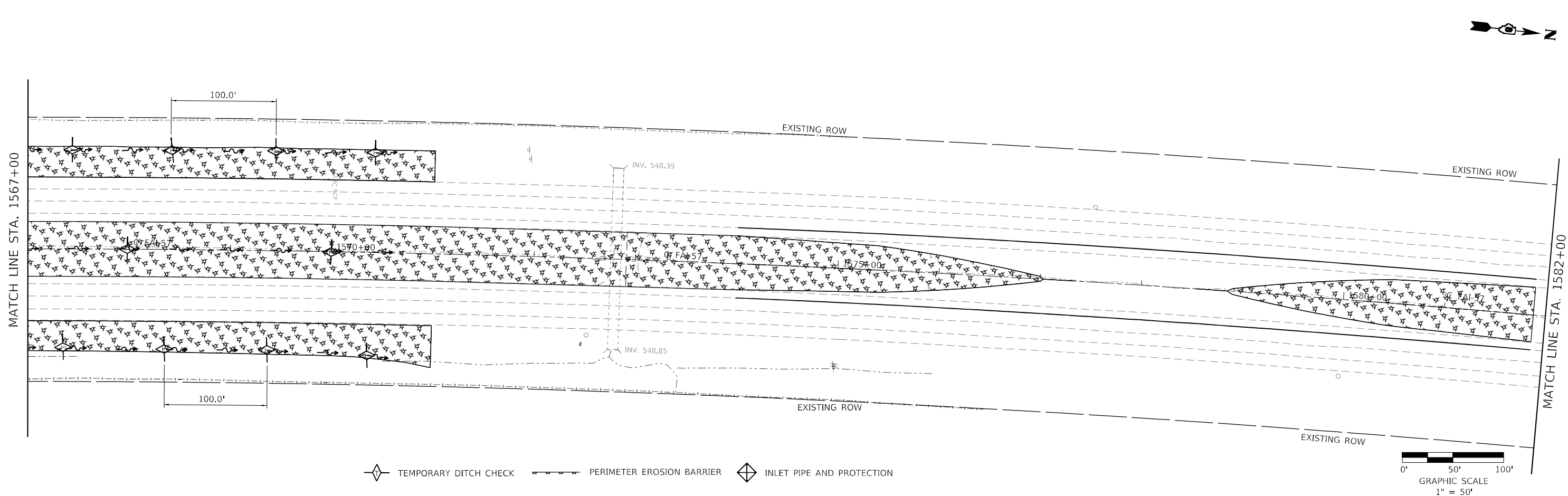
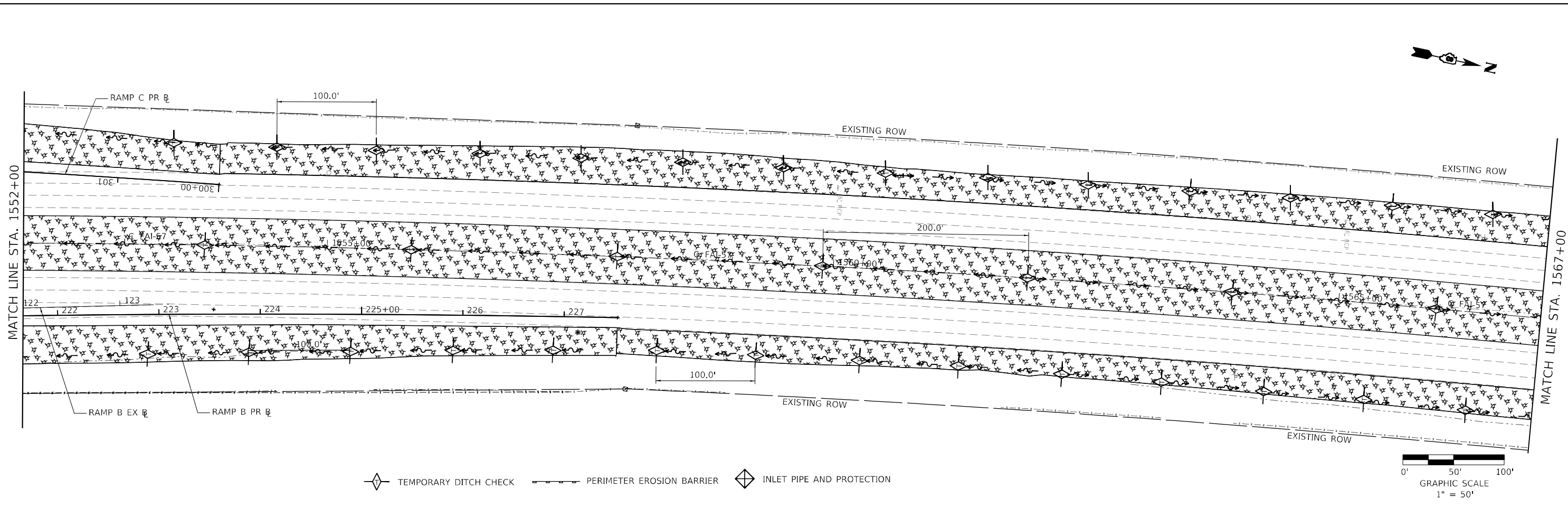
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL PLAN**  
**FAI-57**  
 SCALE: 1" = 50'     SHEET 6     OF 12 SHEETS     STA. 1492+00     TO STA. 1522+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1.1-1.1-2.2)RS-1	MARION	484	103
CONTRACT NO. 76F79				
ILLINOIS FED. AID PROJECT NHPP-KC9D(768)				





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**HMG** HMG ENGINEERS, INC.  
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 BREESE, ILLINOIS 62230  
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 PLOT SCALE = 100,0000' / in.  
 PLOT DATE = 2/16/2022

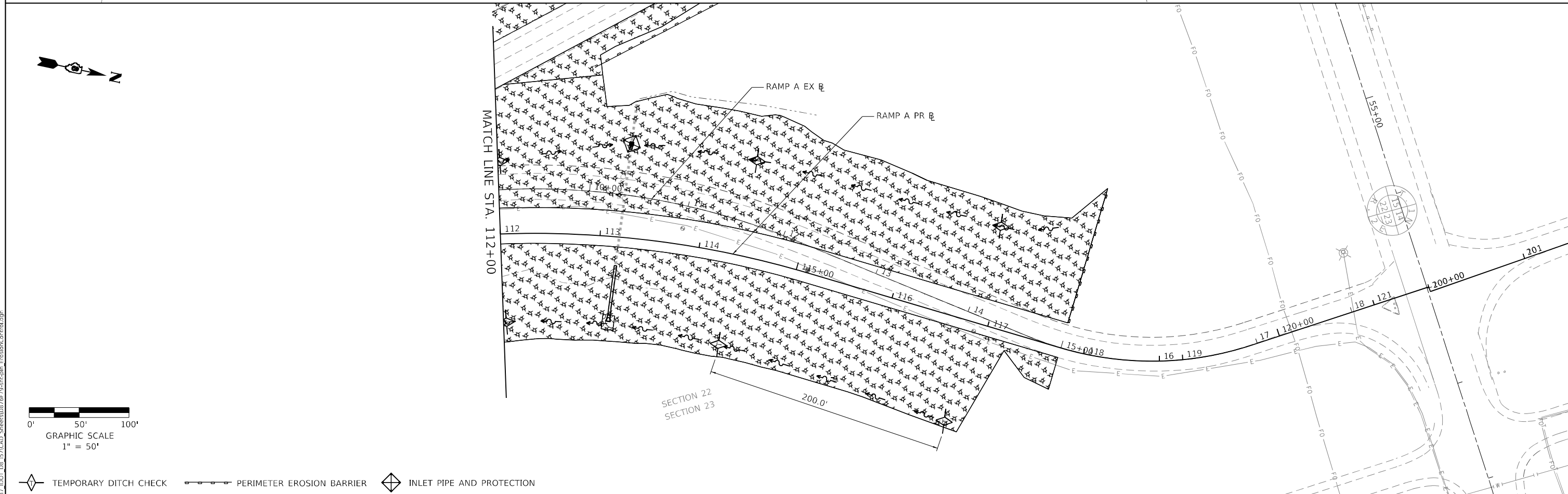
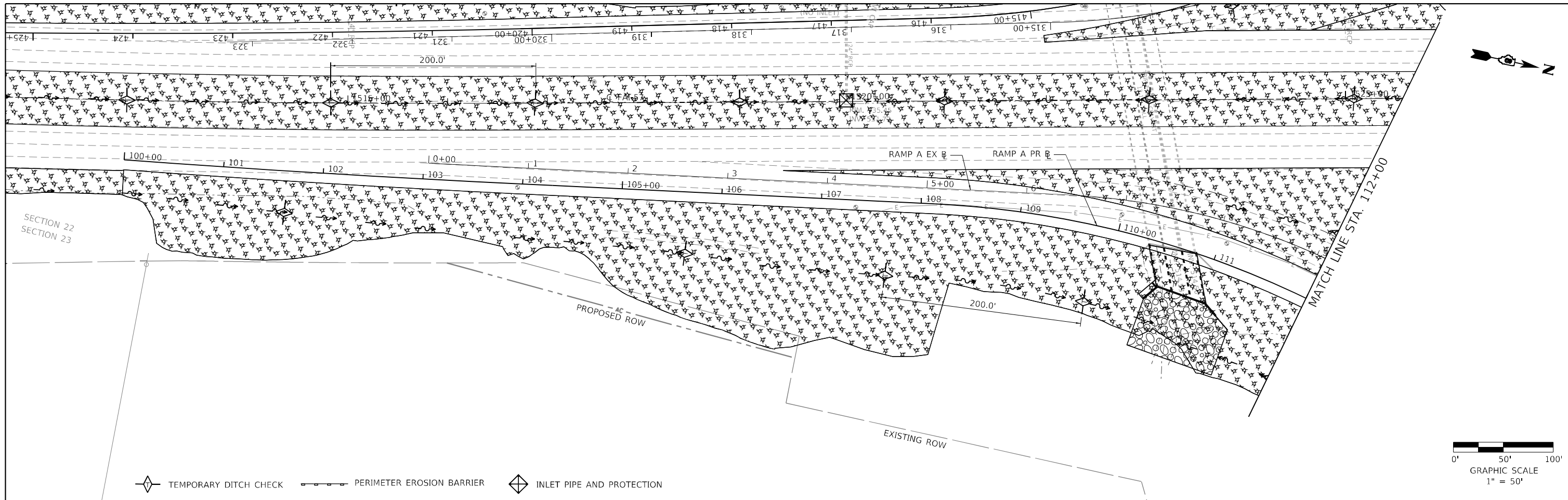
DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL PLAN**  
**FAI-57**

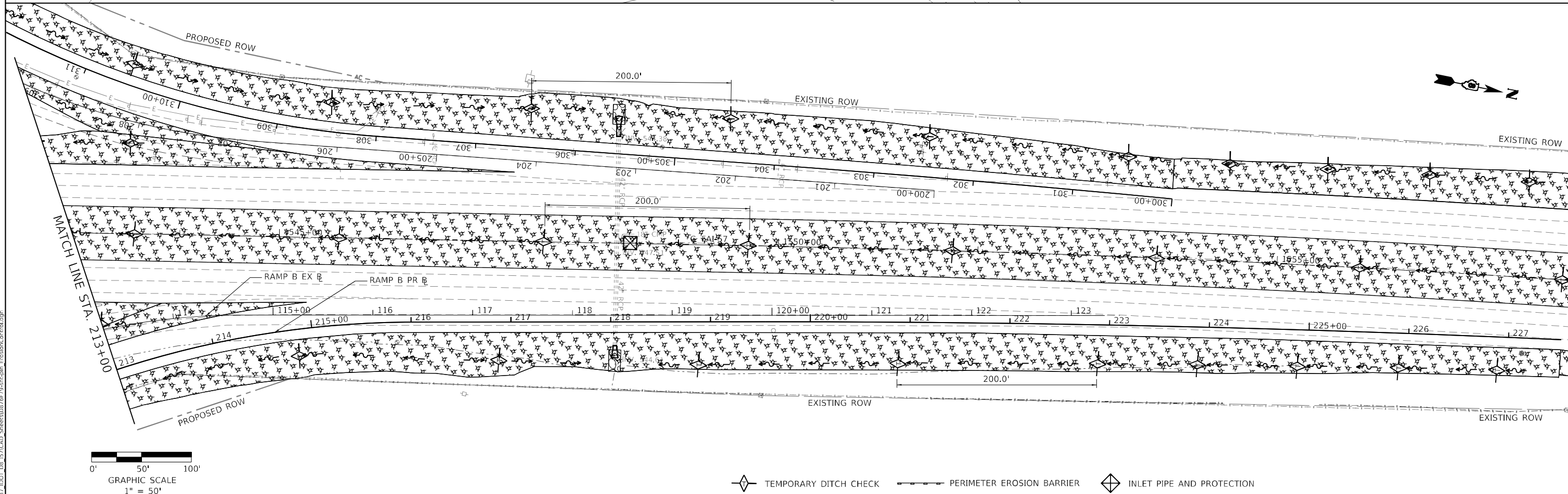
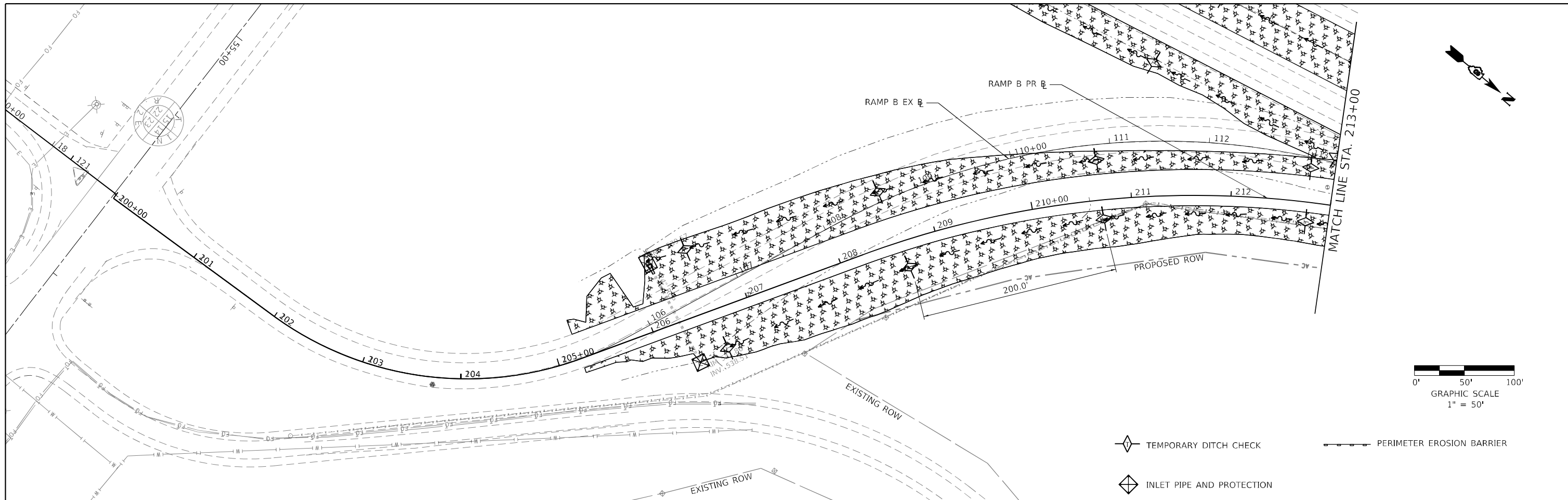
SCALE: 1" = 50' SHEET 8 OF 12 SHEETS STA. 1552+00 TO STA. 1582+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	105
CONTRACT NO. 76F79				
ILLINOIS FED. AID PROJECT NHPK-C90(768)				



<b>HMG</b> HMG ENGINEERS, INC. 9360 HOLY CROSS LANE BREESE, ILLINOIS 62230 Engineers + Surveyors (618) 526-9611 IL PROF. DESIGN FIRM NO. 184.000899	USER NAME = mobrien	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>EROSION CONTROL PLAN</b> <b>RAMP A</b>			F.A.I. RTE. = 57	SECTION = 61-(1,1-1,1-2,2)RS-1	COUNTY = MARION	TOTAL SHEETS = 484	SHEET NO. = 106
	PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -		SCALE: 1" = 50'	SHEET 9	OF 12 SHEETS	STA. 100+00	TO STA. 121+22.08	CONTRACT NO. 76F79		
PLOT DATE = 2/16/2022	DATE -	REVISED -			ILLINOIS FED. AID PROJECT NHP-KC90(76B)							

MODEL: Default  
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MODEL: Default  
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**HMG** HMG ENGINEERS, INC.  
 9360 HOLY CROSS LANE  
 BREESE, ILLINOIS 62230  
 Engineers & Surveyors (618) 526-9611  
 IL PROF. DESIGN FIRM NO. 184.000899

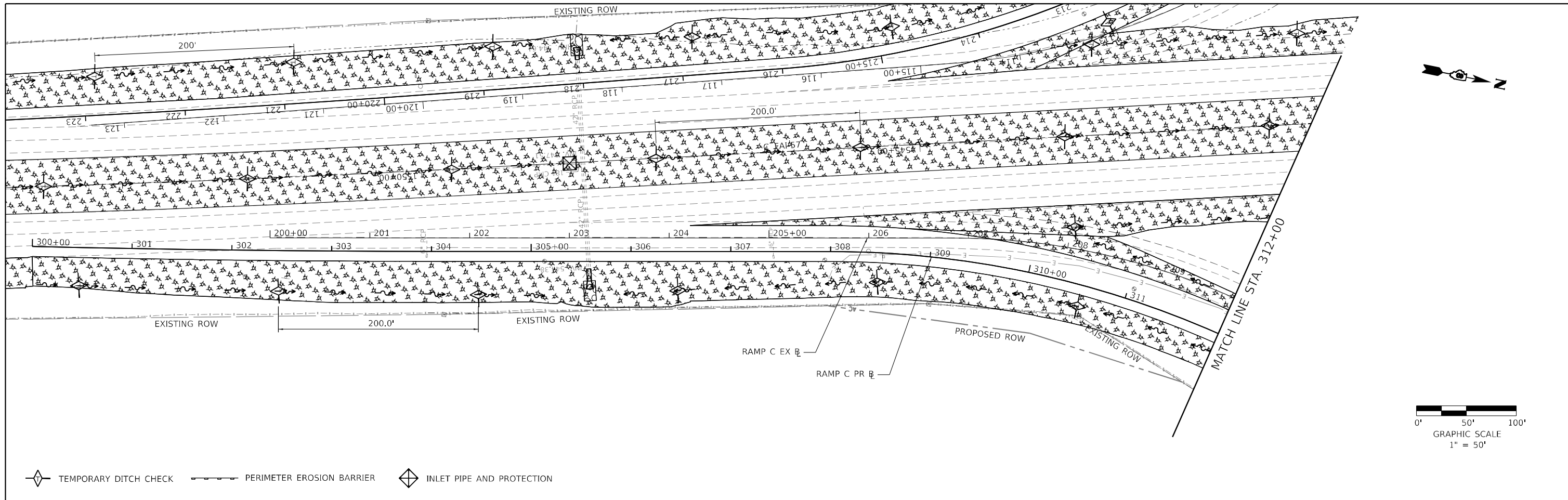
USER NAME = mobrien	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 2/16/2022	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

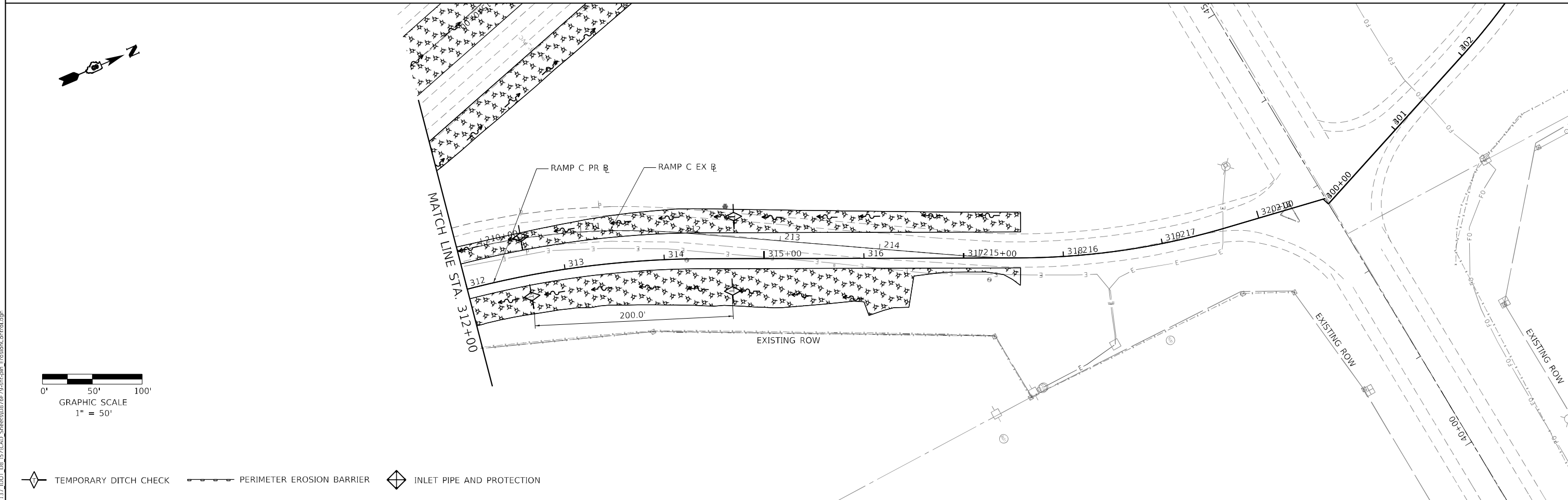
**EROSION CONTROL PLAN  
 RAMP B**

SCALE: 1" = 50'    SHEET 10 OF 12 SHEETS    STA. 200+32.16 TO STA. 227+52.88

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1.1-1,1-2.2)RS-1	MARION	484	107
CONTRACT NO. 76F79			ILLINOIS FED. AID PROJECT NHP-KC90(76B)	



TEMPORARY DITCH CHECK    
 PERIMETER EROSION BARRIER    
 INLET PIPE AND PROTECTION



TEMPORARY DITCH CHECK    
 PERIMETER EROSION BARRIER    
 INLET PIPE AND PROTECTION

MODEL: Default  
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 IL PROF. DESIGN FIRM NO. 184.000899

USER NAME = mobrien  
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 PLOT DATE = 2/16/2022

DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

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 REVISED -

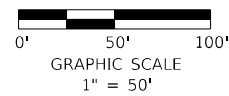
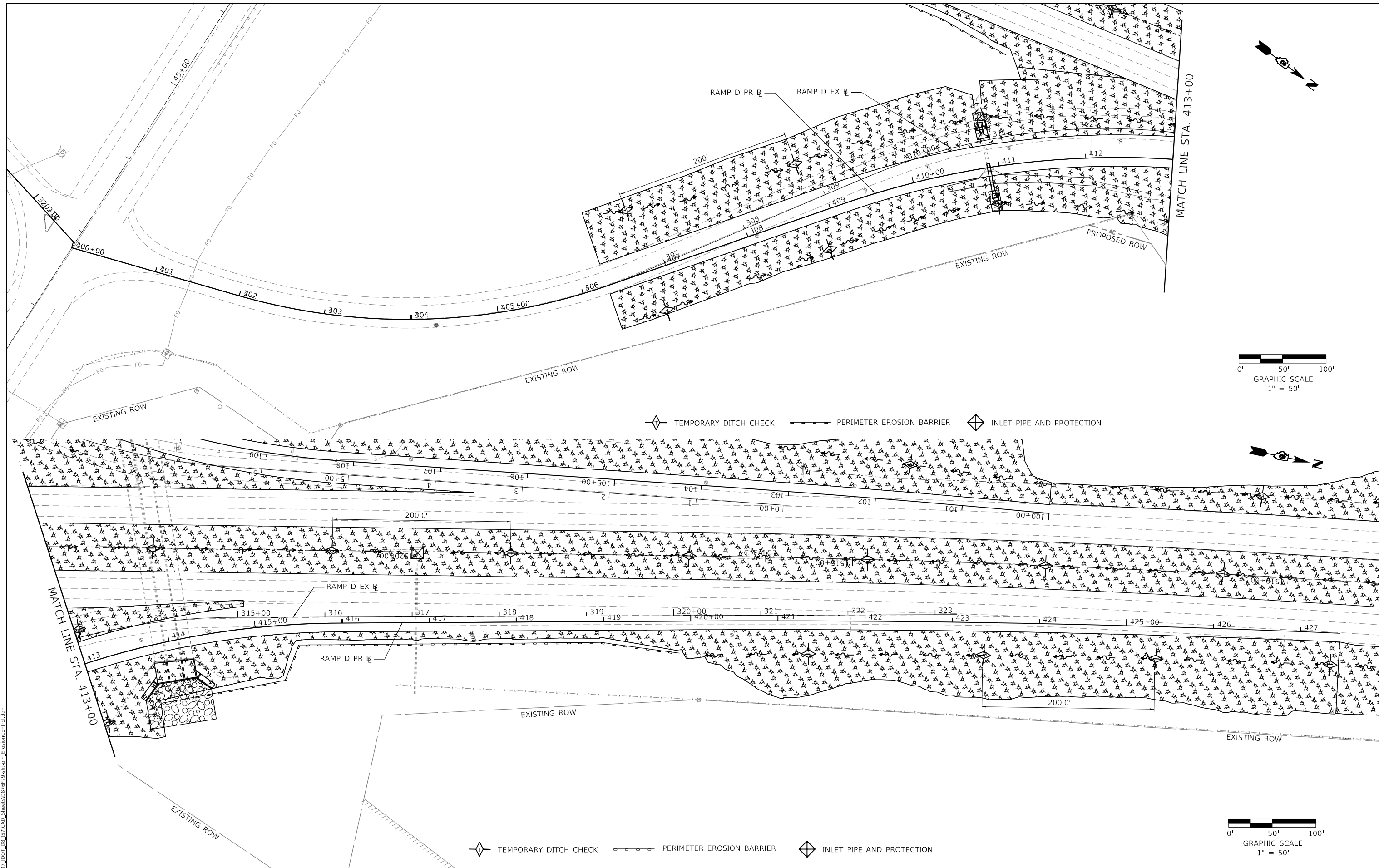
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL PLAN**  
**RAMP C**

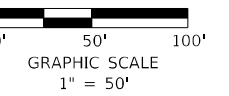
SCALE: 1" = 50'     SHEET 11     OF 12     SHEETS     STA. 300+00     TO STA. 320+38.18

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	108
CONTRACT NO. 76F79				
ILLINOIS		FED. AID PROJECT		NHPP-KC90(76B)





 TEMPORARY DITCH CHECK    
  PERIMETER EROSION BARRIER    
  INLET PIPE AND PROTECTION



 TEMPORARY DITCH CHECK    
  PERIMETER EROSION BARRIER    
  INLET PIPE AND PROTECTION

MODEL: Default  
 FILE NAME: 303137.IDOT.D8\_157CAD\_Sheets10816F79-ent-afn\_ErosionControl.dgn

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 IL PROF. DESIGN FIRM NO. 184.000899

USER NAME = mobrien  
 PLOT SCALE = 100,0000' / in.  
 PLOT DATE = 2/16/2022

DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL PLAN**  
**RAMP D**

SCALE: 1" = 50'     SHEET 12     OF 12     SHEETS     STA. 400+38.24     TO STA. 427+45.20

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	109
CONTRACT NO. 76F79				
ILLINOIS		FED. AID PROJECT		NHPP-KC90(768)

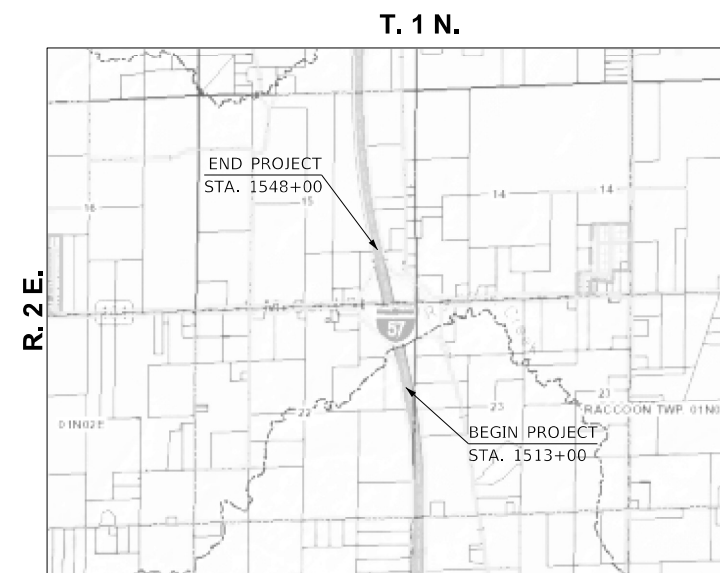
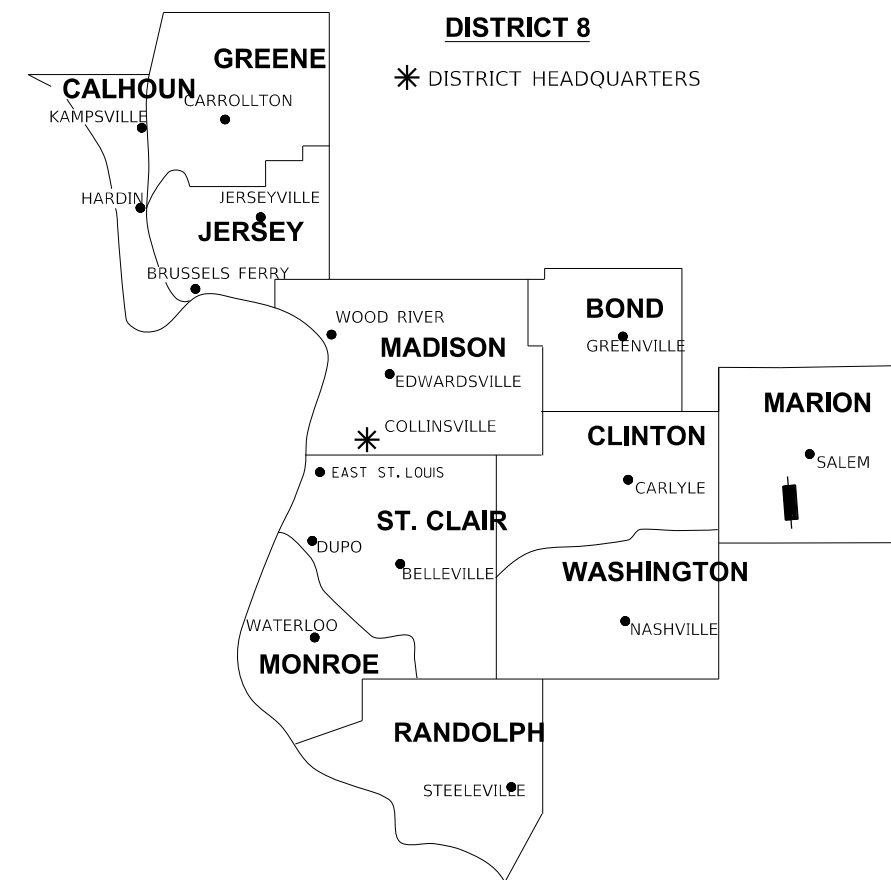
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION

SPACE RESERVED FOR RECORDING OFFICER

SHEET INDEX		
SHEET NO.	STATION to STATION	DESCRIPTION
1		COVER SHEET
2		LEGEND/NOTE SHEET
3	1513+00 TO 1520+00	PARCEL 8017001
4		TOTAL HOLDING 8017001
5	1520+00 TO 1526+00	PARCEL 8017002
6		TOTAL HOLDING 8017002
7	1539+00 TO 1548+00	PARCEL 8017003
8		TOTAL HOLDING 8017003
9		CONTROL, CL TIES, SECTION CORNER TIES

# PLAT OF HIGHWAYS

FAI ROUTE 57 (I-57)  
 SECTION 61-(1,1-1,1-2,2)RS-1  
 MARION COUNTY  
 JOB NO. R-98-017-20



PROJECT LENGTH = 3500 LIN. FT. = 0.6629 MILES

LOCATION OF SECTION INDICATED THUS:

PREPARED BY:

## VOLKERT



NATHAN T. DOZIER, PLS NO. 035.003723  
 LICENSE EXPIRATION DATE: 11/30/2022

SHEET 1 OF 8

ILLINOIS DEPARTMENT OF TRANSPORTATION OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION/REGION 5/DISTRICT 8 1102 EASTPORT PLAZA DRIVE COLLINSVILLE, ILLINOIS 62234-6198				
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	109A
CONTRACT NO.				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

**LEGEND FOR EXISTING TOPOGRAPHIC SYMBOLS**

TRAFFIC SIGNAL GULFBOX	○	DRAINAGE FLOW LINE	→
TRAFFIC SIGNAL HANDHOLE	⊖	RIP RAP	▨
TRAFFIC SIGNAL SIGNAL POST	○	HEADWALL	▧
TRAFFIC SIGNAL STEEL MAST ARM	—	CULVERT END SECTION	▩
TRAFFIC SIGNAL PEDESTRIAN PUSH BUTTON	●	DRAINAGE MANHOLE	⊖
TRAFFIC SIGNAL WOODEN POLE	⊙	INLET	⊖
TRAFFIC SIGNAL VEHICLE DETECTION PRIORITY	⊕	ROADWAY DITCH FLOW	→
TRAFFIC SIGNAL VEHICLE DETECTION MAGNET	⊖	VEGETATION LINE	~
TRAFFIC SIGNAL JUNCTION BOX	⊖	STUMP	⊖
TRAFFIC SIGNAL CONTROLLER	⊖	SHRUB	⊖
TRAFFIC SIGNAL HEAVY DUTY HANDHOLE	⊖	EVERGREEN TREE	⊖
RAILROAD CANTILEVER MAST ARM	—	DECIDUOUS TREE	⊖
RAILROAD CROSSBUCK	⊖	WOODS/BUSH LINE	⊖
RAILROAD TRACK	—	TRAFFIC SIGN	⊖
RAILROAD TRACK (ABANDONED)	—	GUARDRAIL POST	⊖
RAILROAD CROSSGATE	—	GUARDRAIL	—
RAILROAD CONTROL BOX	⊖	FIELD LINE	—
RAILROAD FLASHING SIGNAL	⊖	LEVEE/NOISE BARRIER	—
UTILITY TELEPHONE SPLICE BOX	⊖	FENCE	—
UTILITY POWER POLE	⊖	MAIL BOX	⊖
UTILITY TRAFFIC SIGNAL	⊖	ADVERTISING SIGN	⊖
UTILITY LIGHT POLE	⊖	MARSH	—
UTILITY FIRE HYDRANT	⊖	LIGHTING HANDHOLE	⊖
UTILITY MANHOLE	⊖	LIGHTING POWER POLE	⊖
UTILITY TELEPHONE POLE	⊖	LIGHTING JUNCTION BOX	⊖
UTILITY GUY ANCHOR	⊖	LIGHTING HEAVYDUTY HANDHOLE	⊖
UTILITY PIPELINE WARNING SIGN	⊖	LIGHTING CONTROLLER	⊖
UTILITY HANDHOLE	⊖	LIGHTING PULL POINT	⊖
UTILITY SPLICE BOX	⊖	HIGHWAY LIGHTING ELECTRICAL GROUND	⊖
UTILITY JUNCTION BOX	⊖	HIGHWAY LIGHTING SINGLE UNIT	⊖
UTILITY HEAVY DUTY HANDHOLE	⊖	HIGHWAY LIGHTING DOUBLE UNIT	⊖
UTILITY DOUBLE HANDHOLE	⊖	EXISTING CONCRETE BARRIER	—
UTILITY CONTROLLER	⊖	EXISTING CREEK OR DITCH	—
UTILITY WATER METER	⊖	EXISTING EDGE OF PAVEMENT	—

**RIGHT-OF-WAY LEGEND**

	SECTION CORNERS		QUARTER SECTION CORNERS
---	EXISTING CENTERLINE	---	EXISTING CENTERLINE
---	EXISTING RIGHT-OF-WAY LINE	---	EXISTING RIGHT-OF-WAY LINE
---	FORMER RIGHT-OF-WAY LINE	---	FORMER RIGHT-OF-WAY LINE
---	EXISTING IDOT EASEMENT LINE	---	EXISTING IDOT EASEMENT LINE
---	EXISTING EASEMENT LINE	---	EXISTING EASEMENT LINE
---	BUILDING SETBACK LINE	---	BUILDING SETBACK LINE
---	EXISTING ACCESS CONTROL LINE	---	EXISTING ACCESS CONTROL LINE
---	EXISTING RIGHT-OF-WAY & PROPOSED ACCESS CONTROL LINE	---	EXISTING RIGHT-OF-WAY & PROPOSED ACCESS CONTROL LINE
---	PROPOSED ACCESS CONTROL LINE	---	PROPOSED ACCESS CONTROL LINE
---	PROPOSED CENTERLINE	---	PROPOSED CENTERLINE
---	PROPOSED RIGHT-OF-WAY LINE	---	PROPOSED RIGHT-OF-WAY LINE
---	PROPOSED TEMPORARY EASEMENT LINE	---	PROPOSED TEMPORARY EASEMENT LINE
---	PROPOSED PERMANENT EASEMENT LINE	---	PROPOSED PERMANENT EASEMENT LINE
---	SECTION LINE	---	SECTION LINE
---	QUARTER SECTION LINE	---	QUARTER SECTION LINE
---	QUARTER QUARTER SECTION LINE	---	QUARTER QUARTER SECTION LINE
---	PROPERTY LINE (TITLE)	---	PROPERTY LINE (TITLE)
---	RECORDED PLAT/DEED LINE	---	RECORDED PLAT/DEED LINE
---	APPL APPARENT PROPERTY LINE	---	APPL APPARENT PROPERTY LINE
---	SAME OWNERSHIP	---	SAME OWNERSHIP
121.45'	MEASURED DIMENSION	121.45'	MEASURED DIMENSION
(121.45')	RECORDED DIMENSION	(121.45')	RECORDED DIMENSION
□	FOUND STONE	□	FOUND STONE
○	FOUND IRON PIPE OR IRON ROD AT CORNER UNLESS OTHERWISE NOTED	○	FOUND IRON PIPE OR IRON ROD AT CORNER UNLESS OTHERWISE NOTED
●	SET 5/8 INCH IRON ROD WITH PLASTIC CAP IDENTIFIED BY SURVEYORS LICENSE NUMBER AT CORNER UNLESS OTHERWISE NOTED	●	SET 5/8 INCH IRON ROD WITH PLASTIC CAP IDENTIFIED BY SURVEYORS LICENSE NUMBER AT CORNER UNLESS OTHERWISE NOTED
⊖	PERMANENT SURVEY MONUMENT, I.D.O.T. STD. 667101 (TO BE SET BY OTHERS)	⊖	PERMANENT SURVEY MONUMENT, I.D.O.T. STD. 667101 (TO BE SET BY OTHERS)
△	SET 5/8 INCH IRON ROD AS SURVEY CONTROL UNLESS OTHERWISE NOTED	△	SET 5/8 INCH IRON ROD AS SURVEY CONTROL UNLESS OTHERWISE NOTED
+	FOUND CUT CROSS	+	FOUND CUT CROSS
+	SET CUT CROSS	+	SET CUT CROSS

■ STAKING OF PROPOSED RIGHT-OF-WAY AND PERMANENT EASEMENT CORNERS. SET 5/8 INCH METAL ROD WITH DEPARTMENT OF TRANSPORTATION SURVEY ALUMINUM CAP TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS LICENSE NUMBER.

**LEGEND FOR ABBREVIATIONS**

A/C	ACCESS CONTROL
AC	ACRE
AVE	AVENUE
BK	BOOK
BLVD	BOULEVARD
CL	CENTERLINE
CAB	CABINET
CH	COUNTY HIGHWAY
Ch	CHAIN
COR	CORNER
CP	CONTROL POINT
CPS	COTTON PICKER SPINDLE
DB	DEED BOOK
E	EAST
EX	EXISTING
FA	FEDERAL AID
FAI	FEDERAL AID INTERSTATE
FAP	FEDERAL AID PRIMARY
FAS	FEDERAL AID SECONDARY
FAU	FEDERAL AID URBAN
FND	FOUND
ha	HECTARE
IP	IRON PIPE
IR	IRON ROD
LT	LEFT
m <sup>2</sup>	METER
m	SQUARE METERS
N	NORTH
N/F	NOW OR FORMERLY
N & BC	NAIL AND BOTTLE CAP
N & C	NAIL AND CAP
N & W	NAIL AND WASHER
NE	NORTHEAST
NW	NORTHWEST
PB	PLAT BOOK
PG	PAGE
POB	POINT OF BEGINNING
POC	POINT OF COMMENCEMENT
POT	POINT ON TANGENT
PL	PROPERTY LINE
PR	PROPOSED
R	RANGE
RD	ROAD
REC	RECORD
ROW	RIGHT-OF-WAY
RR	RAILROAD
RRS	RAILROAD SPIKE
RT	RIGHT
RTE	ROUTE
S	SOUTH
SBI	STATE BOND ISSUE
SE	SOUTHEAST
SEC	SECTION
SQ FT	SQUARE FEET
SR	STATE ROUTE
ST	STREET
STA	STATION
SMK	SURVEY MARKER
SW	SOUTHWEST
T	TOWNSHIP
TR	TOWNSHIP ROAD
USGS	U.S. GEOLOGICAL SURVEY
W	WEST

SPACE RESERVED FOR RECORDING OFFICER

**PROPOSED PARCEL NUMBER LEGEND**

8001001	PROPOSED FEE SIMPLE ACQUISITION
8001001PE	PROPOSED PERMANENT EASEMENT
8001001TE	PROPOSED TEMPORARY EASEMENT
8001001DED	PROPOSED DEDICATION
8001001AC	PROPOSED ACCESS CONTROL LINE

**CURVE ABBREVIATIONS**

PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PT	POINT OF TANGENCY
PRC	POINT OF REVERSE CURVE
PCC	POINT OF COMPOUND CURVE
R	RADIUS OF CURVE
L	LENGTH OF CURVE
CB	CHORD BEARING
C	CHORD LENGTH
D	DEGREE OF CURVE
E	EXTERNAL ORDINATE
Δ	CENTRAL ANGLE

**BASIS OF COORDINATE & BEARING STATEMENT**

THE COORDINATES AND BEARINGS FOR THIS SURVEY ARE BASED ON THE PROJECT SURVEY CONTROL DATA THAT THE ILLINOIS DEPARTMENT OF TRANSPORTATION (DEPARTMENT) ESTABLISHED AND PROVIDED TO THE SURVEYOR, WHICH IS A "GROUND SURFACE COORDINATE SYSTEM" PREPARED SPECIFICALLY FOR THIS PROJECT.

THE CONTROL POINTS UTILIZED ON THIS PROJECT AND THEIR ASSOCIATED COORDINATES, AS PROVIDED BY THE DEPARTMENT, ARE LISTED IN THE TABLE BELOW.

THIS "GROUND SURFACE COORDINATE SYSTEM" WAS DERIVED FROM THE DEPARTMENT'S INITIAL CONTROL SURVEY WHICH ESTABLISHED STATE PLANE COORDINATE SYSTEM (SPCS) VALUES FOR EACH OF THE CONTROL POINTS BASED ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, WEST ZONE, NAD83 (insert epoch). TO CREATE THE PROJECT "GROUND SURFACE COORDINATE SYSTEM", THE DEPARTMENT MADE THE FOLLOWING TWO ADJUSTMENTS TO THE SPCS VALUES:

1. ADJUSTED THE STATE PLANE COORDINATES TO A GROUND COORDINATE SYSTEM BY DIVIDING THE SPCS VALUES BY THE COMBINATION FACTOR UTILIZED FOR THIS PROJECT WHICH IS 0.9999906681.

2. SUBTRACTED 500,000 FROM THE ADJUSTED EASTING VALUES TO DISTINGUISH A UNIQUE DIFFERENCE BETWEEN THE GROUND SYSTEM COORDINATES FROM THE SPCS COORDINATES.

**PROJECT SURVEY CONTROL DATA  
GROUND SURFACE COORDINATE SYSTEM**

POINT NO.	NORTH (FEET)	EAST (FEET)	DESCRIPTION
223	672,609.1510	304,908.9997	COTTON SPINDLE
9	673,842.5371	304,735.2130	IRON PIN WITH CAP
11	675,943.9945	304,318.4497	IRON PIN WITH CAP
220	676,569.8818	304,053.3861	IRON PIN WITH CAP
12	677,039.7226	304,143.7699	IRON PIN WITH CAP
208	677,774.3396	303,991.7237	IRON PIN WITH CAP
223	672,609.1510	304,908.9997	COTTON SPINDLE

**TOTAL HOLDING AREA SOURCE TABLE**

1	AREA ACCORDING TO THE SURVEY PERFORMED BY THE CONSULTANT.
2	AREA LISTED IN RECORDED DEED.
3	AREA ACCORDING TO A RECORDED SUBDIVISION PLAT.
4	AREA ACCORDING TO A PLAT OF SURVEY.
5	AREA CALCULATED FROM RECORDED DEEDS OR TITLE COMMITMENTS - NOT SURVEYED.
6	AREA ACCORDING TO COUNTY TAX MAPS AND COUNTY ASSESSMENT RECORDS.
7	AREA ACCORDING TO OTHER RECORDS, SEE NOTE ON THE PLAT OF HIGHWAYS.

**TOPOGRAPHIC STATEMENT**

THE TOPOGRAPHY SHOWN HEREON WAS PROVIDED TO THE SURVEYOR BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION. THE SURVEYOR VISUALLY FIELD VERIFIED THE EXISTENCE OF THE TOPOGRAPHY SHOWN HEREON. NO ADDITIONAL WERE PHYSICALLY LOCATED IN THE FIELD BY THE SURVEYOR.



NATHAN T. DOZIER, PLS NO. 035.003723  
LICENSE EXPIRATION DATE: 11/30/2022

**PREPARED BY:**  
**VOLKERT**

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PLAT OF HIGHWAYS**  
FAI ROUTE 57 (I-57)  
SECTION 61-(1,1-1,1-2,2)RS-1  
MARION COUNTY  
JOB NO. R-98-017-20

SHEET 2 OF 9

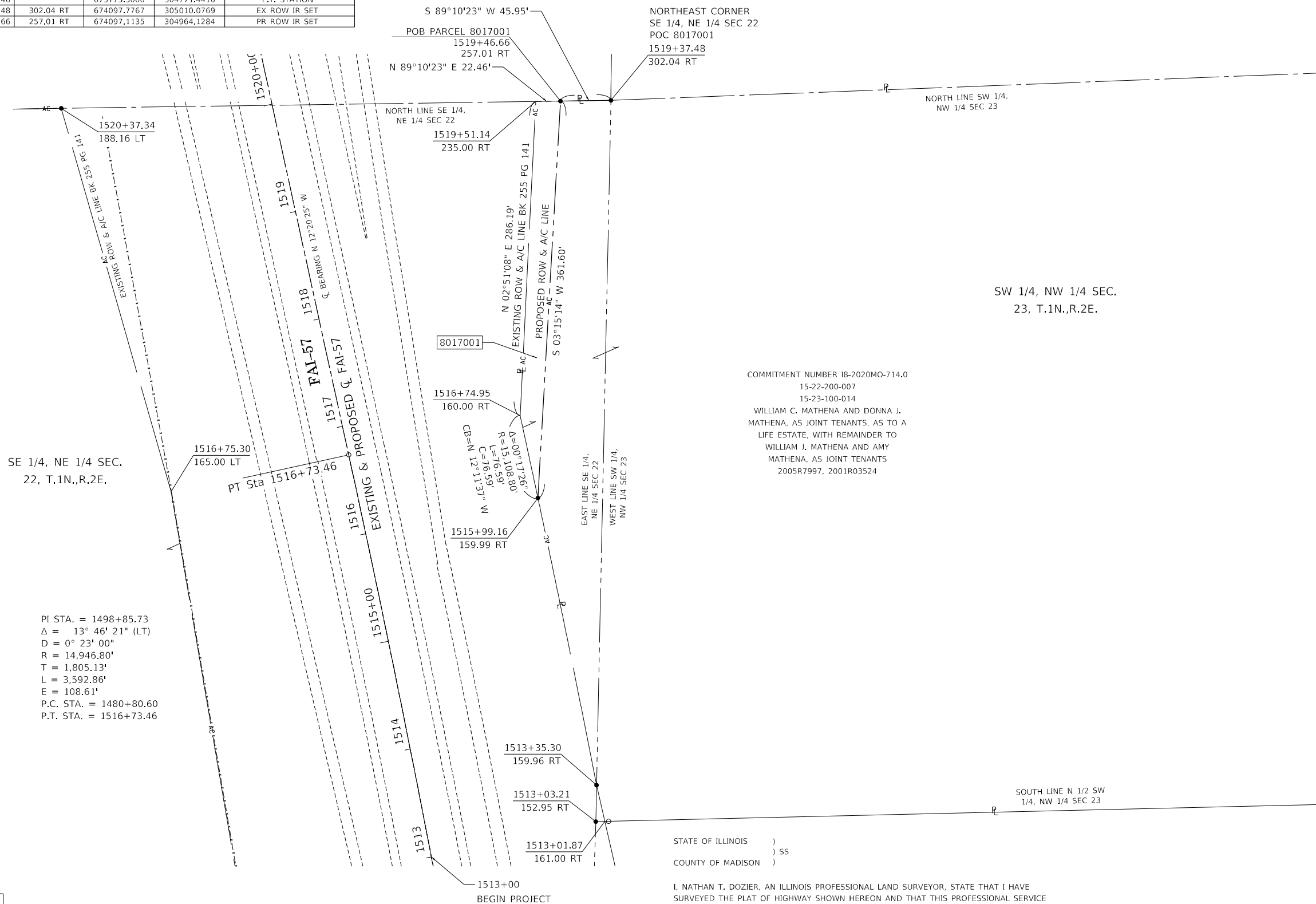
ILLINOIS DEPARTMENT OF TRANSPORTATION OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION/REGION 5/DISTRICT 8 1102 EASTPORT PLAZA DRIVE COLLINSVILLE, ILLINOIS 62234-6198				
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	109B
CONTRACT NO.				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SEE LEGENDS, TOPOGRAPHIC STATEMENT, SURVEYORS NOTE(S) AND BASIS OF COORDINATES & BEARINGS STATEMENT ON SHEET 2

COORDINATE TABLE				
STATION	OFFSET	NORTH	EAST	DESCRIPTION
1513+00.00		673409.5109	304846.6905	BEGIN PROJECT
1513+03.21	152.95 RT	673441.6386	304996.2677	SW CORNER N 1/2, SW 1/4, NW 1/4 IR SET
1513+35.30	159.96 RT	673474.8061	304996.9657	EX ROW IR SET
1515+99.16	159.99 RT	673736.0933	304943.6032	PR ROW IR SET
1516+73.46		673775.3060	304771.4410	P.T. STATION
1519+37.48	302.04 RT	674097.7767	305010.0769	EX ROW IR SET
1519+46.66	257.01 RT	674097.1135	304964.1284	PR ROW IR SET



SPACE RESERVED FOR RECORDING OFFICER



COMMITMENT NUMBER 18-2020MO-714.0  
 15-22-200-007  
 15-23-100-014  
 WILLIAM C. MATHENA AND DONNA J. MATHENA, AS JOINT TENANTS, AS TO A LIFE ESTATE, WITH REMAINDER TO WILLIAM J. MATHENA AND AMY MATHENA, AS JOINT TENANTS  
 2005R7997, 2001R03524

PI STA. = 1498+85.73  
 $\Delta = 13^\circ 46' 21''$  (LT)  
 $D = 0^\circ 23' 00''$   
 $R = 14,946.80'$   
 $T = 1,805.13'$   
 $L = 3,592.86'$   
 $E = 108.61'$   
 P.C. STA. = 1480+80.60  
 P.T. STA. = 1516+73.46

STATE OF ILLINOIS )  
 ) SS  
 COUNTY OF MADISON )

I, NATHAN T. DOZIER, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED \_\_\_\_\_  
 NATHAN T. DOZIER, PLS NO. 3723  
 LICENSE EXPIRATION DATE: 11/30/2022



\* SEE TOTAL HOLDING AREA SOURCE TABLE ON SHEET 2

PARCEL NO.	OWNER	TOTAL HOLDING	FEE SIMPLE ACQUISITION		REMAINDER	PERMANENT TAX NUMBER AFFECTED	PROPERTY ACQUIRED BY
		ACRES	ACRES	SQ FT			
8017001	WILLIAM C. MATHENA AND DONNA J. MATHENA, AS JOINT TENANTS, AS TO A LIFE ESTATE, WITH REMAINDER TO WILLIAM J. MATHENA AND AMY MATHENA, AS JOINT TENANTS	33.2139	0.1583	6,893	33.0556	15-22-200-007 15-23-100-014	

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PLAT OF HIGHWAYS**  
 FAI ROUTE 57 (I-57)  
 SECTION 61-(1,1-1,1-2,2)RS-1  
 MARION COUNTY  
 JOB NO. R-98-017-20  
 STATION 1513+00 TO STATION 1520+00

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION/REGION 5/DISTRICT 8  
 1102 EASTPORT PLAZA DRIVE  
 COLLINSVILLE, ILLINOIS 62234-6198

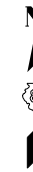
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	109C

COMPLETION DATE OF FIELD WORK PERFORMED \_\_\_\_\_  
 LAND SURVEY: 6 ROW STAKING: \_\_\_\_\_  
 CONTRACT NO. \_\_\_\_\_  
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

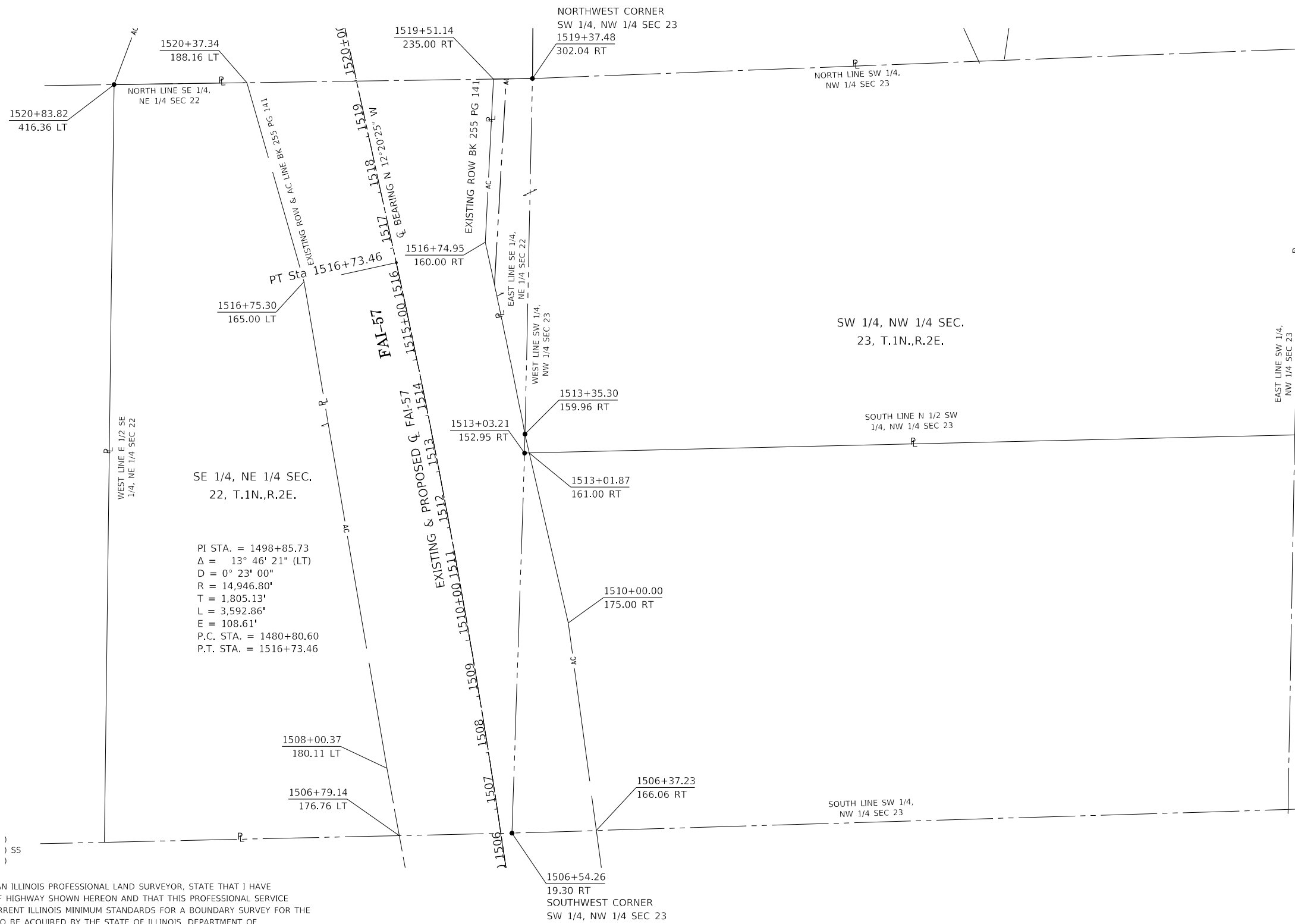
SEE LEGENDS, TOPOGRAPHIC STATEMENT, SURVEYORS NOTE(S) AND BASIS OF COORDINATES & BEARINGS STATEMENT ON SHEET 2

COORDINATE TABLE				
STATION	OFFSET	NORTH	EAST	DESCRIPTION
1513+00.00		673409.5109	304846.6905	BEGIN PROJECT
1513+03.21	152.95 RT	673441.6386	304996.2677	SW CORNER N 1/2, SW 1/4, NW 1/4 IR SET
1513+35.30	159.96 RT	673474.8061	304996.9657	EX ROW IR SET
1515+99.16	159.99 RT	673736.0933	304943.6032	PR ROW IR SET
1516+73.46		673775.3060	304771.4410	P.T. STATION
1519+37.48	302.04 RT	674097.7767	305010.0769	EX ROW IR SET
1519+46.66	257.01 RT	674097.1135	304964.1284	PR ROW IR SET

# TOTAL HOLDING SKETCH PARCEL 8017001



SPACE RESERVED FOR RECORDING OFFICER



PI STA. = 1498+85.73  
 $\Delta = 13^\circ 46' 21''$  (LT)  
 $D = 0^\circ 23' 00''$   
 $R = 14,946.80'$   
 $T = 1,805.13'$   
 $L = 3,592.86'$   
 $E = 108.61'$   
 P.C. STA. = 1480+80.60  
 P.T. STA. = 1516+73.46

STATE OF ILLINOIS )  
 ) SS  
 COUNTY OF MADISON )

I, NATHAN T. DOZIER, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED \_\_\_\_\_



NATHAN T. DOZIER, PLS NO. 3723  
 LICENSE EXPIRATION DATE: 11/30/2022

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PLAT OF HIGHWAYS**  
 FAI ROUTE 57 (I-57)  
 SECTION 61-(1,1-1,1-2,2)RS-1  
 MARION COUNTY  
 JOB NO. R-98-017-20  
 TOTAL HOLDING 8017001

SCALE: 1" = 100'

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION/REGION 5/DISTRICT 8  
 1102 EASTPORT PLAZA DRIVE  
 COLLINSVILLE, ILLINOIS 62234-6198

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	109D

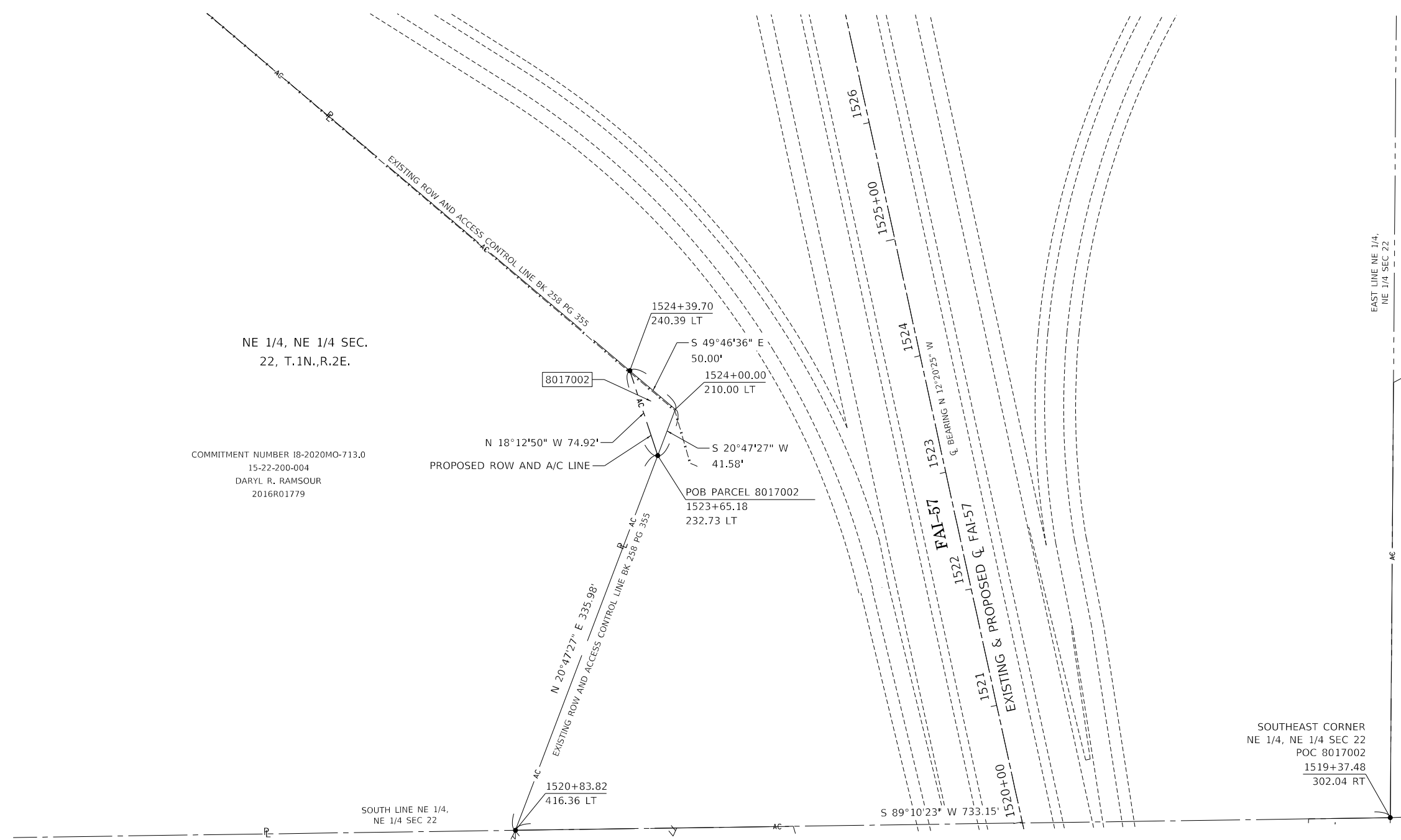
COMPLETION DATE OF FIELD WORK PERFORMED \_\_\_\_\_  
 LAND SURVEY: 6 ROW STAKING: \_\_\_\_\_  
 CONTRACT NO. \_\_\_\_\_  
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

SEE LEGENDS, TOPOGRAPHIC STATEMENT, SURVEYORS NOTE(S) AND BASIS OF COORDINATES & BEARINGS STATEMENT ON SHEET 2

COORDINATE TABLE				
STATION	OFFSET	NORTH	EAST	DESCRIPTION
1519+37.48	302.04 RT	674097.7767	305010.0769	EX ROW IR SET
1520+83.82	416.36 LT	674087.1966	304277.0013	EX ROW IR SET
1523+65.18	232.73 LT	674401.2999	304396.2604	PR ROW IR SET
1524+39.70	240.39 LT	674472.4635	304372.8437	PR ROW IR SET



SPACE RESERVED FOR RECORDING OFFICER



NE 1/4, NE 1/4 SEC.  
22, T.1N.,R.2E.  
  
COMMITMENT NUMBER 18-2020MO-713.0  
15-22-200-004  
DARYL R. RAMSOUR  
2016R01779

SOUTHEAST CORNER  
NE 1/4, NE 1/4 SEC 22  
POC 8017002  
1519+37.48  
302.04 RT

STATE OF ILLINOIS )  
                                  ) SS  
COUNTY OF MADISON )

I, NATHAN T. DOZIER, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED \_\_\_\_\_  
  
NATHAN T. DOZIER, PLS NO. 3723  
LICENSE EXPIRATION DATE: 11/30/2022



\* SEE TOTAL HOLDING AREA SOURCE TABLE ON SHEET 2

PARCEL NO.	OWNER	TOTAL HOLDING ACRES	FEE SIMPLE ACQUISITION		REMAINDER ACRES	PERMANENT TAX NUMBER AFFECTED	PROPERTY ACQUIRED BY
			ACRES	SQ FT			
8017002	DARYL R. RAMSOUR	11.6440	0.0225	980	11.6215	15-22-200-004	
	MO-713	1					

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PLAT OF HIGHWAYS**  
FAI ROUTE 57 (I-57)  
SECTION 61-(1,1-1,1-2,2)RS-1  
MARION COUNTY  
JOB NO. R-98-017-20  
STATION 1520+00 TO STATION 1526+00

ILLINOIS DEPARTMENT OF TRANSPORTATION  
OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION/REGION 5/DISTRICT 8  
1102 EASTPORT PLAZA DRIVE  
COLLINSVILLE, ILLINOIS 62234-6198

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	109E

CONTRACT NO. \_\_\_\_\_  
FED. ROAD DIST. NO. \_\_\_\_\_ ILLINOIS \_\_\_\_\_ FED. AID PROJECT \_\_\_\_\_

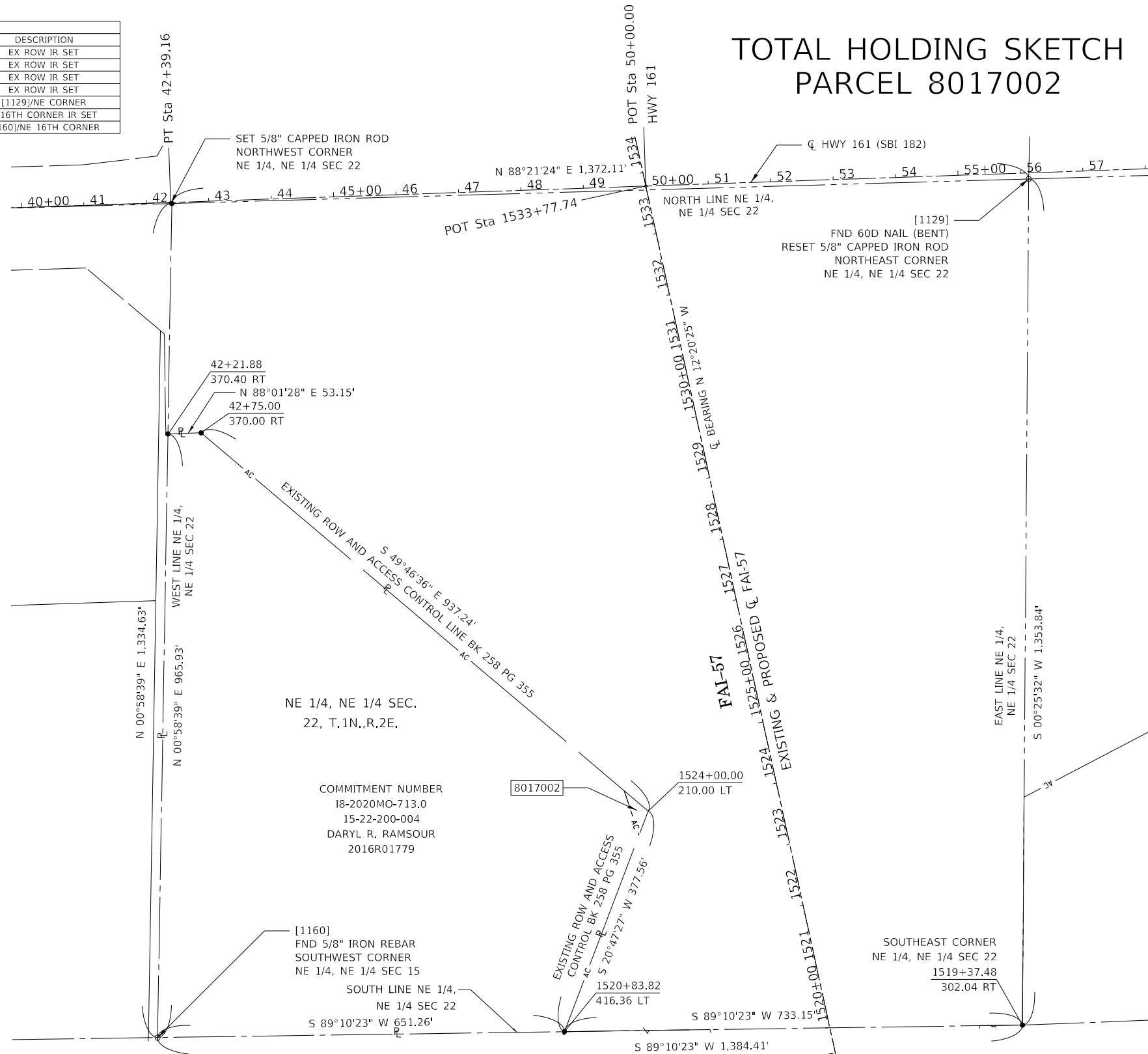
SEE LEGENDS, TOPOGRAPHIC STATEMENT, SURVEYORS NOTE(S) AND BASIS OF COORDINATES & BEARINGS STATEMENT ON SHEET 2

COORDINATE TABLE				
STATION	OFFSET	NORTH	EAST	DESCRIPTION
1519+37.48	302.04 RT	674097.7767	305010.0769	EX ROW IR SET
1520+83.82	416.36 LT	674087.1966	304277.0013	EX ROW IR SET
42+75.00	370.00 RT	675045.4152	303695.4091	EX ROW IR SET
42+21.88	370.40 RT	675043.5829	303642.2915	EX ROW IR SET
		675451.5812	305020.1314	[1129]NE CORNER
		675412.2346	303648.5814	E 16TH CORNER IR SET
		674077.7984	303625.8134	[1160]NE 16TH CORNER

# TOTAL HOLDING SKETCH PARCEL 8017002



SPACE RESERVED FOR RECORDING OFFICER



NE 1/4, NE 1/4 SEC.  
22, T.1N., R.2E.

COMMITMENT NUMBER  
18-2020MO-713.0  
15-22-200-004  
DARYL R. RAMSOUR  
2016R01779

8017002

EXISTING ROW AND ACCESS  
CONTROL BK 258 PG 355  
S 20°47'27\" W 377.56'

SOUTHEAST CORNER  
NE 1/4, NE 1/4 SEC 22  
1519+37.48  
302.04 RT

STATE OF ILLINOIS )  
                          ) SS  
COUNTY OF MADISON )

I, NATHAN T. DOZIER, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED \_\_\_\_\_  
NATHAN T. DOZIER, PLS NO. 3723  
LICENSE EXPIRATION DATE: 11/30/2022



ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PLAT OF HIGHWAYS**  
FAI ROUTE 57 (I-57)  
SECTION 61-(1,1-1,1-2,2)RS-1  
MARION COUNTY  
JOB NO. R-98-017-20  
TOTAL HOLDING 8017002



ILLINOIS DEPARTMENT OF TRANSPORTATION  
OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION/REGION 5/DISTRICT 8  
1102 EASTPORT PLAZA DRIVE  
COLLINSVILLE, ILLINOIS 62234-6198

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	109F

COMPLETION DATE OF FIELD WORK PERFORMED	
LAND SURVEY:	6
ROW STAKING:	

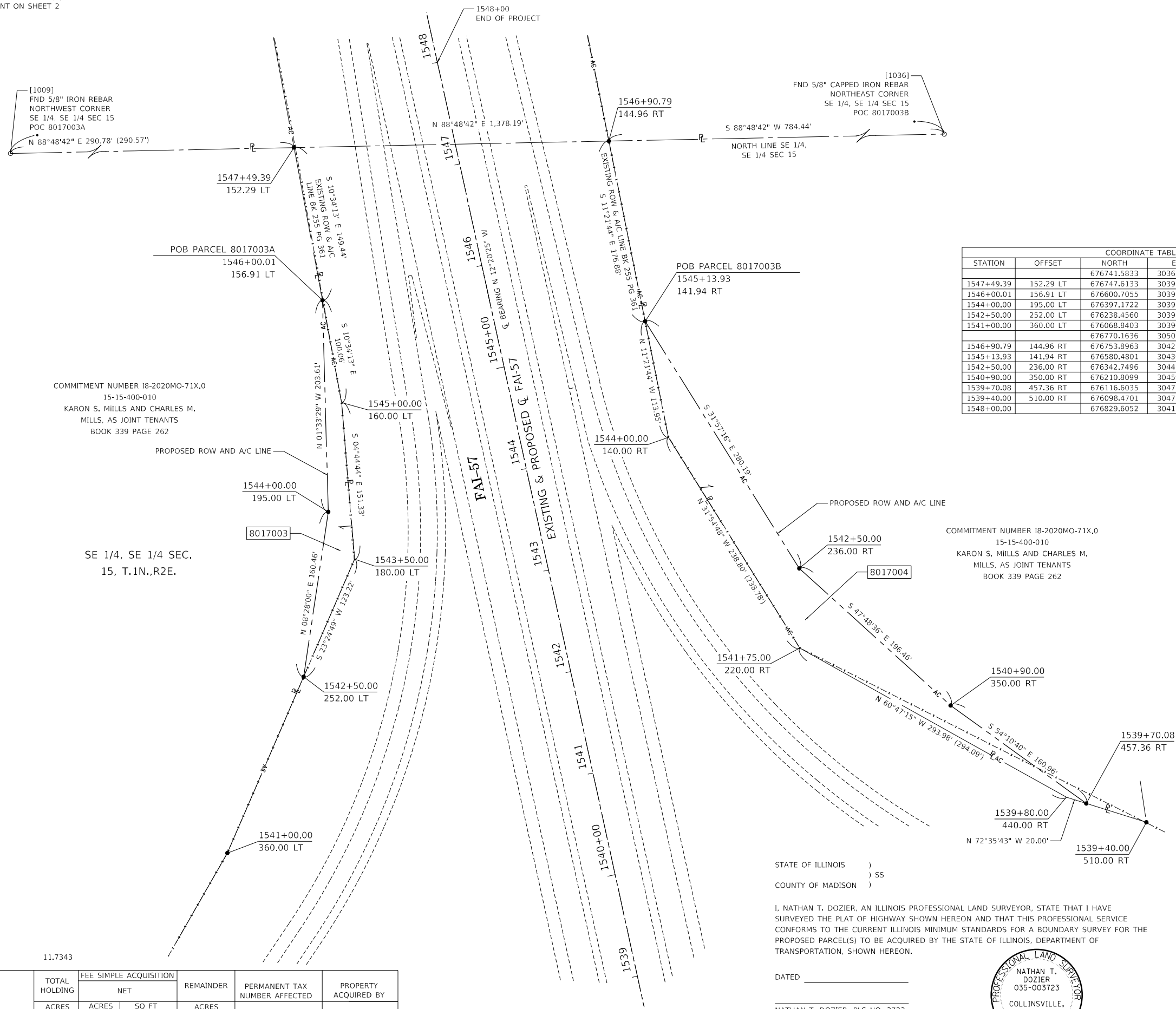
CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT

PART OF THE SE 1/4 OF SECTION 15, T. 1 N., R. 2 E., OF THE 3RD P.M., MARION COUNTY, ILLINOIS

SEE LEGENDS, TOPOGRAPHIC STATEMENT, SURVEYORS NOTE(S) AND BASIS OF COORDINATES & BEARINGS STATEMENT ON SHEET 2



SPACE RESERVED FOR RECORDING OFFICER



COORDINATE TABLE				
STATION	OFFSET	NORTH	EAST	[PNT #]/DESCRIPTION
		676741.5833	303674.5778	[1009]/SE 16TH CORNER
1547+49.39	152.29 LT	676747.6133	303965.2916	EX ROW IR SET
1546+00.01	156.91 LT	676600.7055	303992.7057	PR ROW IR SET
1544+00.00	195.00 LT	676397.1722	303998.2413	PR ROW IR SET
1542+50.00	252.00 LT	676238.4560	303974.6157	PR ROW IR SET
1541+00.00	360.00 LT	676068.8403	303901.1684	EX ROW IR SET
		676770.1636	305052.4757	[1036]/S 16TH CORNER
1546+90.79	144.96 RT	676753.8963	304268.2050	EX ROW IR SET
1545+13.93	141.94 RT	676580.4801	304303.0528	PR ROW IR SET
1542+50.00	236.00 RT	676342.7496	304451.3409	PR ROW IR SET
1540+90.00	350.00 RT	676210.8099	304596.9016	PR ROW IR SET
1539+70.08	457.36 RT	676116.6035	304727.4153	PR ROW IR SET
1539+40.00	510.00 RT	676098.4701	304785.2623	EX ROW IR SET
1548+00.00		676829.6052	304103.2495	END OF PROJECT

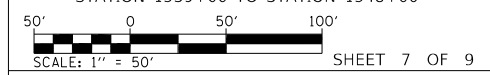
COMMITMENT NUMBER 18-2020MO-71X.0  
15-15-400-010  
KARON S. MILLS AND CHARLES M. MILLS, AS JOINT TENANTS  
BOOK 339 PAGE 262

COMMITMENT NUMBER 18-2020MO-71X.0  
15-15-400-010  
KARON S. MILLS AND CHARLES M. MILLS, AS JOINT TENANTS  
BOOK 339 PAGE 262

SE 1/4, SE 1/4 SEC.  
15, T.1N.,R2E.

**INSERT COMPANY NAME  
ADDRESS, PHONE NUMBER,  
AND REGISTRATION NUMBER  
HERE**

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PLAT OF HIGHWAYS**  
FAI ROUTE 57 (I-57)  
SECTION 61-(1,1-1,1-2,2)RS-1  
MARION COUNTY  
JOB NO. R-98-017-20  
STATION 1539+00 TO STATION 1548+00



ILLINOIS DEPARTMENT OF TRANSPORTATION  
OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION/REGION 5/DISTRICT 8  
1102 EASTPORT PLAZA DRIVE  
COLLINSVILLE, ILLINOIS 62234-6198

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	109G

STATE OF ILLINOIS )  
                                  ) SS  
COUNTY OF MADISON )

I, NATHAN T. DOZIER, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED \_\_\_\_\_

NATHAN T. DOZIER, PLS NO. 3723  
LICENSE EXPIRATION DATE: 11/30/2022



\* SEE TOTAL HOLDING AREA SOURCE TABLE ON SHEET 2

PARCEL NO.	OWNER	TOTAL HOLDING	FEE SIMPLE ACQUISITION		REMAINDER	PERMANENT TAX NUMBER AFFECTED	PROPERTY ACQUIRED BY
		ACRES	ACRES	SQ FT			
8017003	KARON S. MILLS AND CHARLES M. MILLS, AS JOINT TENANTS, MO-71X	5.9366 [1]	0.1325	5,771	5.8041	15-15-400-010 (PT.)	
8017004	KARON S. MILLS AND CHARLES M. MILLS, AS JOINT TENANTS, MO-71X	5.7977 [1]	0.4546	19,803	5.3431	15-15-400-010 (PT.)	

COMPLETION DATE OF FIELD WORK PERFORMED		CONTRACT NO.	
LAND SURVEY:	6	FED. ROAD DIST. NO.	ILLINOIS
ROW STAKING:		FED. AID PROJECT	

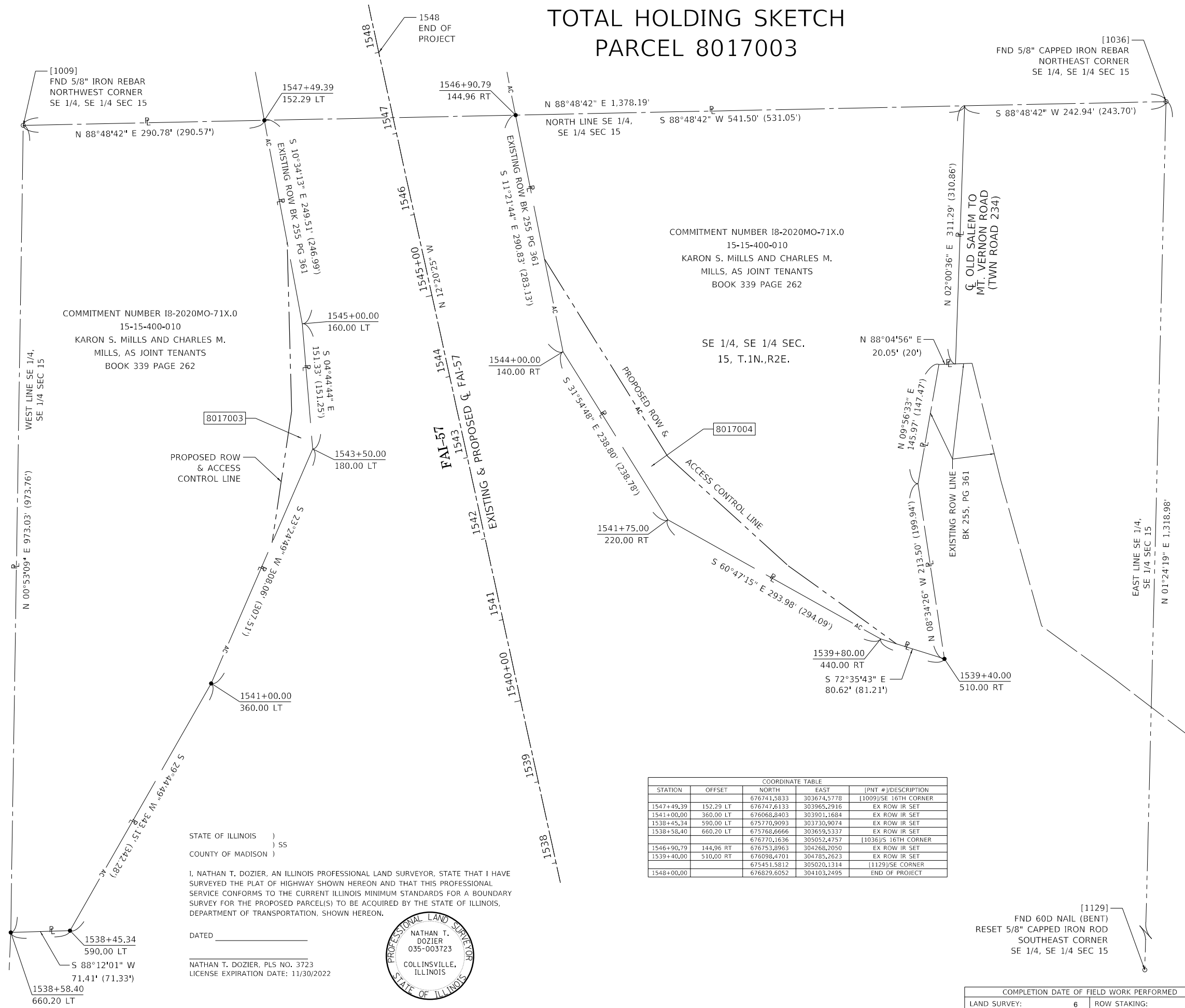


SEE LEGENDS, TOPOGRAPHIC STATEMENT, SURVEYORS NOTE(S) AND BASIS OF COORDINATES & BEARINGS STATEMENT ON SHEET 2

# TOTAL HOLDING SKETCH PARCEL 8017003



SPACE RESERVED FOR RECORDING OFFICER



COMMITMENT NUMBER 18-2020MO-71X.0  
15-15-400-010  
KARON S. MILLS AND CHARLES M. MILLS, AS JOINT TENANTS  
BOOK 339 PAGE 262

COMMITMENT NUMBER 18-2020MO-71X.0  
15-15-400-010  
KARON S. MILLS AND CHARLES M. MILLS, AS JOINT TENANTS  
BOOK 339 PAGE 262

SE 1/4, SE 1/4 SEC.  
15, T.1N.,R2E.

CL OLD SALEM TO  
MT. VERNON ROAD  
(TWN ROAD 234)

PROPOSED ROW & ACCESS CONTROL LINE

PROPOSED ROW & ACCESS CONTROL LINE

STATE OF ILLINOIS )  
COUNTY OF MADISON ) SS

I, NATHAN T. DOZIER, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED \_\_\_\_\_  
NATHAN T. DOZIER, PLS NO. 3723  
LICENSE EXPIRATION DATE: 11/30/2022



COORDINATE TABLE				
STATION	OFFSET	NORTH	EAST	[PNT #]/DESCRIPTION
		676741.5833	303674.5778	[1009]/SE 16TH CORNER
1547+49.39	152.29 LT	676747.6133	303965.2916	EX ROW IR SET
1541+00.00	360.00 LT	676068.8403	303901.1684	EX ROW IR SET
1538+45.34	590.00 LT	675770.9093	303730.9074	EX ROW IR SET
1538+58.40	660.20 LT	675768.6666	303659.5337	EX ROW IR SET
		676770.1636	305052.4757	[1036]/S 16TH CORNER
1546+90.79	144.96 RT	676753.8963	304268.2050	EX ROW IR SET
1539+40.00	510.00 RT	676098.4701	304785.2623	EX ROW IR SET
		675451.5812	305020.1314	[1129]/SE CORNER
1548+00.00		676829.6052	304103.2495	END OF PROJECT

[1129]  
FND 60D NAIL (BENT)  
RESET 5/8" CAPPED IRON ROD  
SOUTHEAST CORNER  
SE 1/4, SE 1/4 SEC 15

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PLAT OF HIGHWAYS**  
FAI ROUTE 57 (I-57)  
SECTION 61-(1,1-1,1-2,2)RS-1  
MARION COUNTY  
JOB NO. R-98-017-20  
TOTAL HOLDING 8017003

SCALE: 1" = 60'

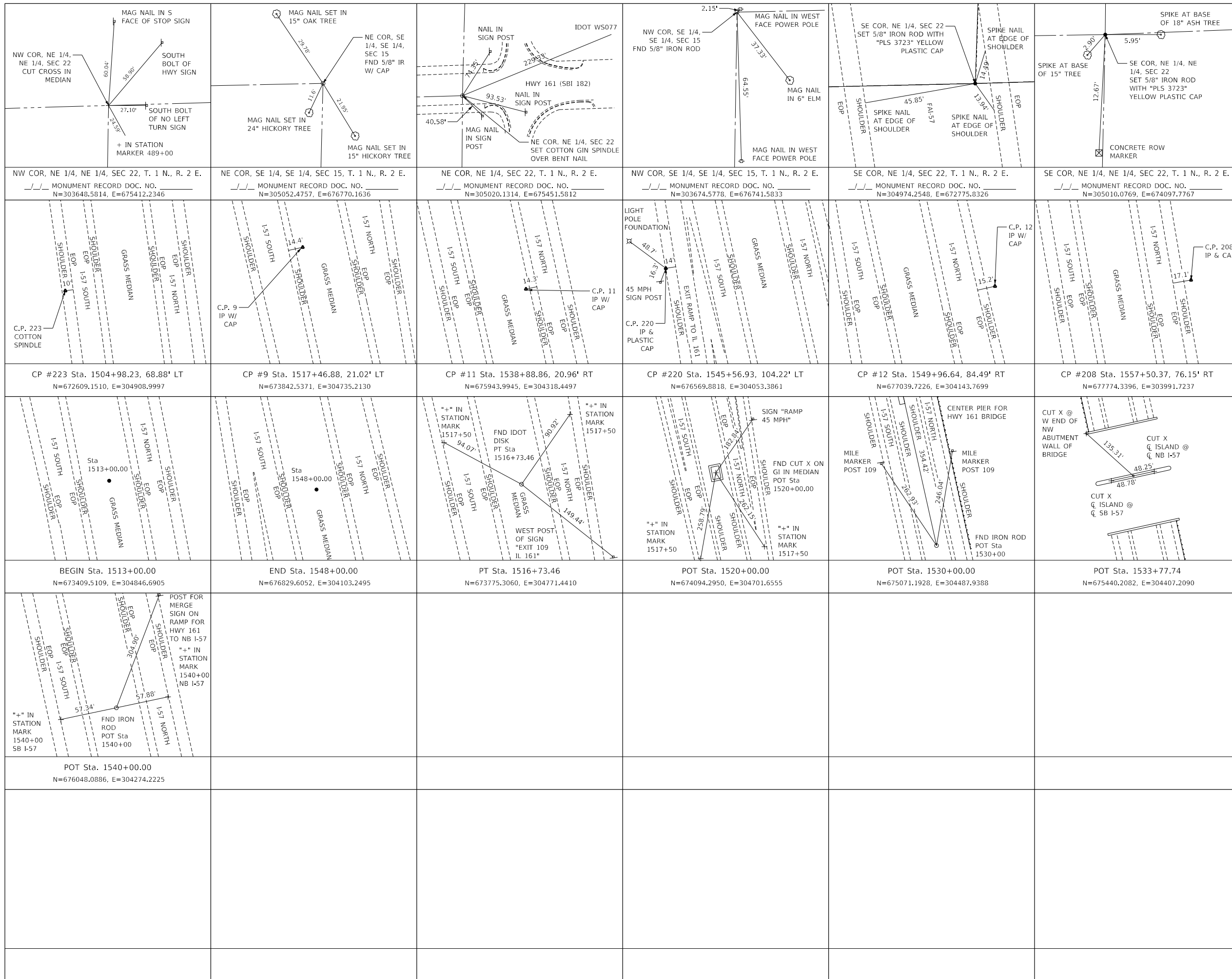
ILLINOIS DEPARTMENT OF TRANSPORTATION  
OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION/REGION 5/DISTRICT 8  
1102 EASTPORT PLAZA DRIVE  
COLLINSVILLE, ILLINOIS 62234-6198

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	1091

COMPLETION DATE OF FIELD WORK PERFORMED \_\_\_\_\_  
LAND SURVEY: 6 ROW STAKING: \_\_\_\_\_

CONTRACT NO. \_\_\_\_\_  
FED. ROAD DIST. NO. \_\_\_\_\_ ILLINOIS FED. AID PROJECT

SECTION CORNER AND CENTERLINE TIE SHEET



N

SPACE RESERVED FOR RECORDING OFFICER

STATE OF ILLINOIS )  
 ) SS  
 COUNTY OF MADISON )

I, NATHAN T. DOZIER, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

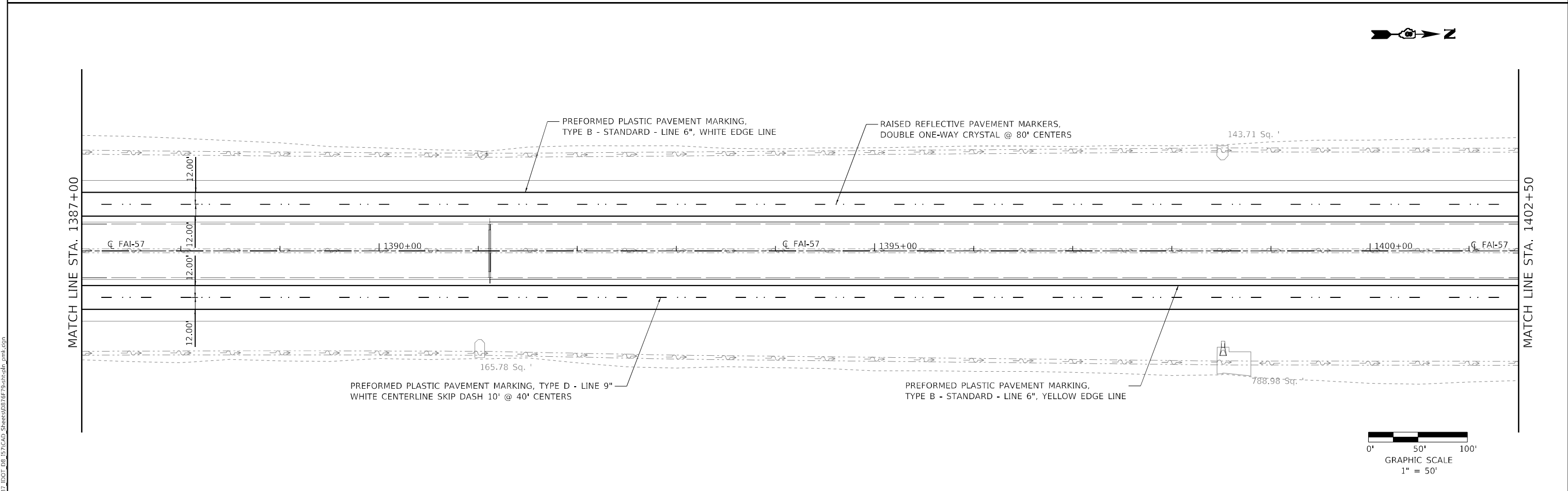
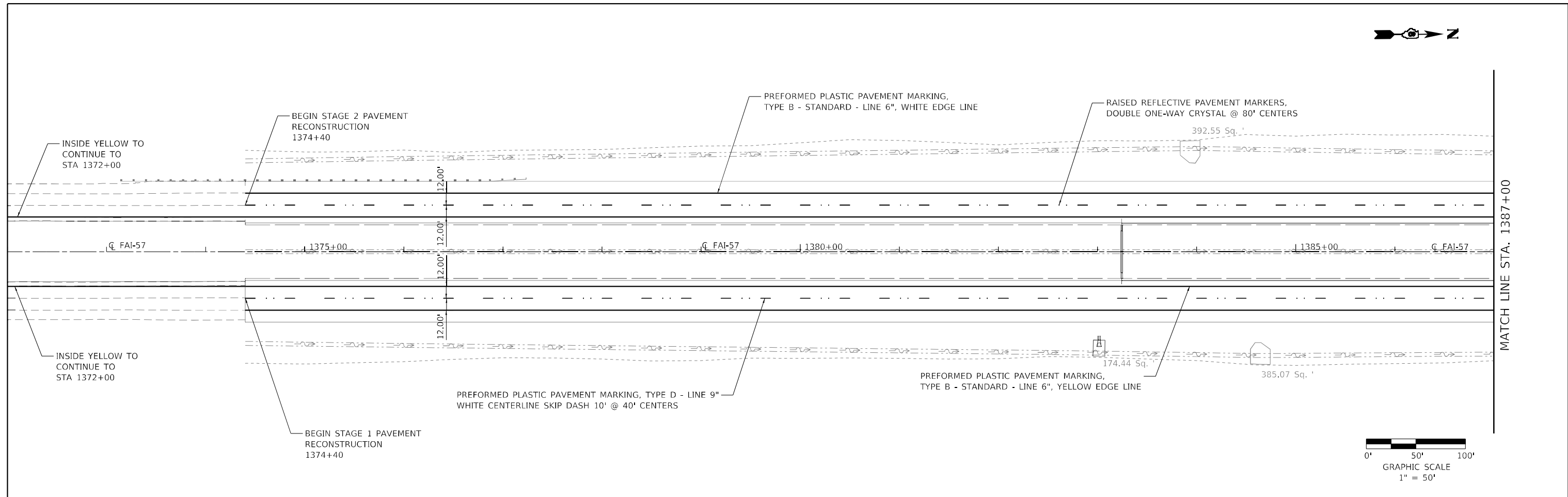
DATED \_\_\_\_\_

NATHAN T. DOZIER, PLS NO. 3723  
 LICENSE EXPIRATION DATE: 11/30/2022



**VOLKERT**

COMPLETION DATE OF FIELD WORK PERFORMED			
LAND SURVEY:	ROW STAKING:		
ILLINOIS DEPARTMENT OF TRANSPORTATION			
<b>PLAT OF HIGHWAYS</b>			
FAI ROUTE 57 (I-57)			
SECTION 61-(1,1-1,1-2,2)RS-1			
MARION COUNTY			
JOB NO. R-98-017-20			
NOT TO SCALE		SHEET 9 OF 9	
ILLINOIS DEPARTMENT OF TRANSPORTATION OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION/REGION 5/DISTRICT 8 1102 EASTPORT PLAZA DRIVE COLLINSVILLE, ILLINOIS 62234-6198			
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS
57	61-(1,1-1,1-2,2)RS-1	MARION	484
SHEET NO. 1091			
CONTRACT NO.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	



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**HMG** HMG ENGINEERS, INC.  
 9360 HOLY CROSS LANE  
 BREESE, ILLINOIS 62230  
 Engineers + Surveyors (618) 526-9611  
 IL PROF. DESIGN FIRM NO. 184.000899

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 DATE -

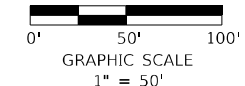
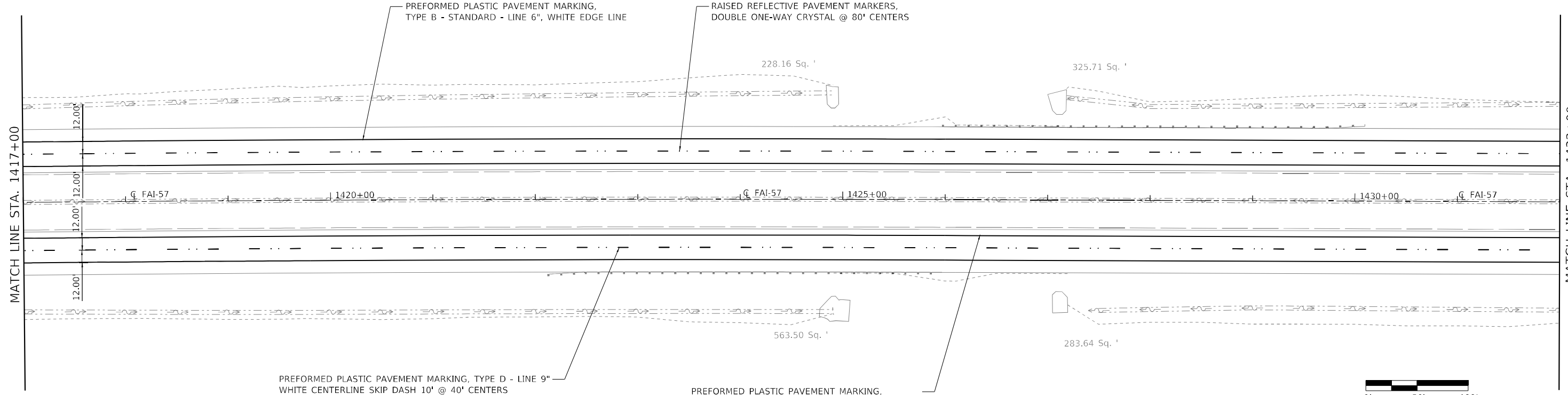
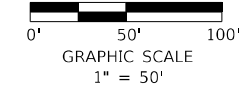
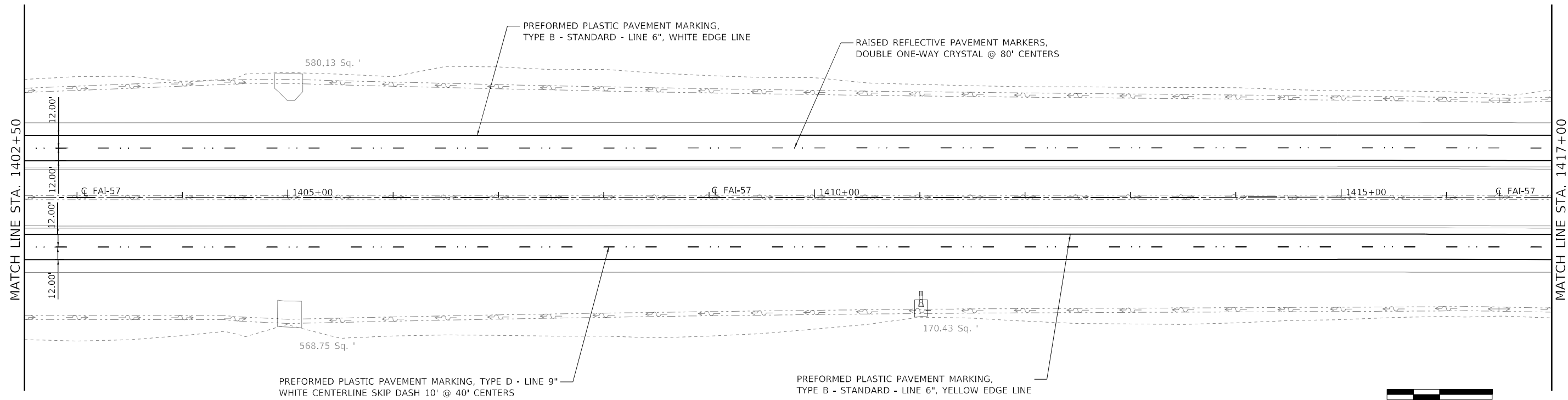
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN**  
**FAI-57**

SCALE: 1" = 50'    SHEET 1    OF 7    SHEETS    STA. 1372+50    TO STA. 1402+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	110
CONTRACT NO. 76F79				
ILLINOIS FED. AID PROJECT NHPP-KC9D1768				



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**HMG** HMG ENGINEERS, INC.  
 9360 HOLY CROSS LANE  
 BREESE, ILLINOIS 62230  
 Engineers & Surveyors (618) 526-9611  
 IL PROF. DESIGN FIRM NO. 184.000899

USER NAME = mobrien  
 PLOT SCALE = 100,0000 ' / in.  
 PLOT DATE = 3/21/2022

DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

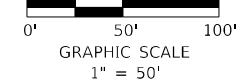
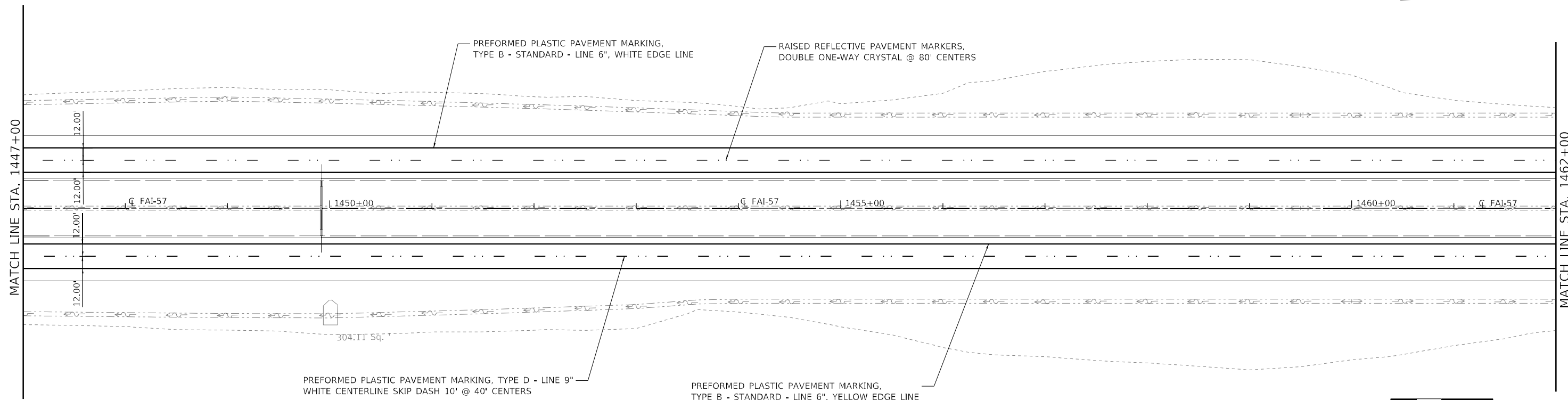
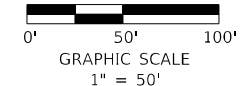
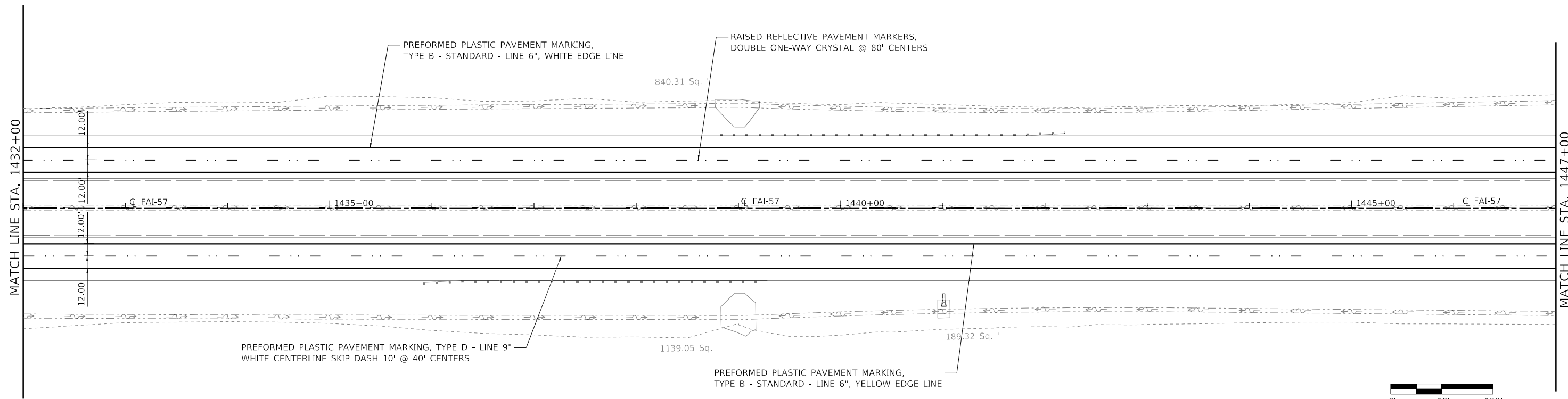
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN**  
**FAI-57**

SCALE: 1" = 50' SHEET 2 OF 7 SHEETS STA. 1402+50 TO STA. 1432+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	111
CONTRACT NO. 76F79				
ILLINOIS		FED. AID PROJECT	NHPP-KC90(768)	



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**HMG** HMG ENGINEERS, INC.  
 9360 HOLY CROSS LANE  
 BRESEE, ILLINOIS 62230  
 Engineers & Surveyors  
 (618) 526-9611  
 IL PROF. DESIGN FIRM NO. 184.000899

USER NAME = mobrien  
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 PLOT DATE = 3/21/2022

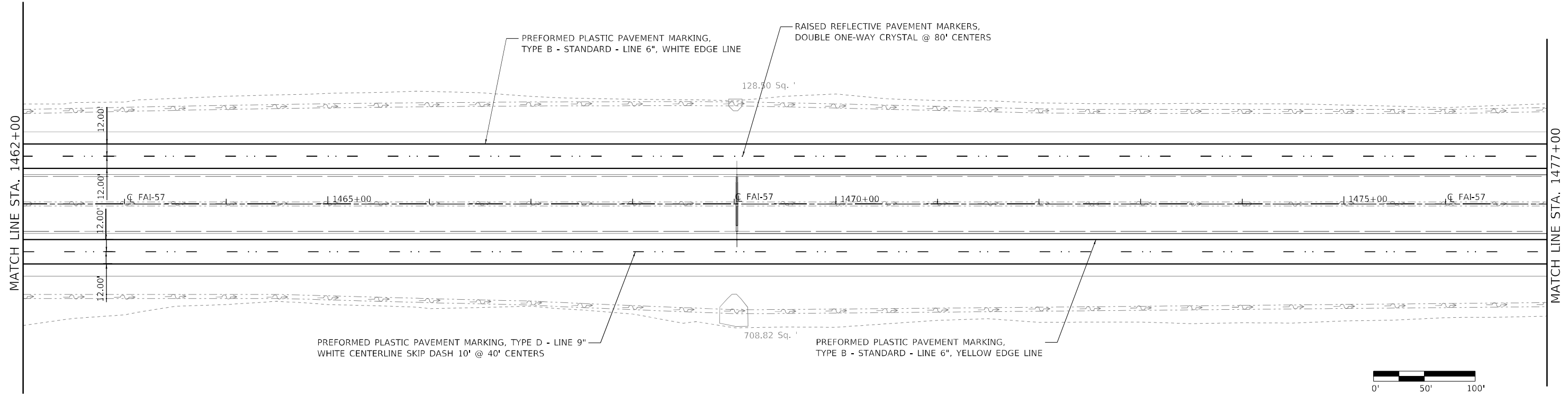
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN**  
**FAI-57**

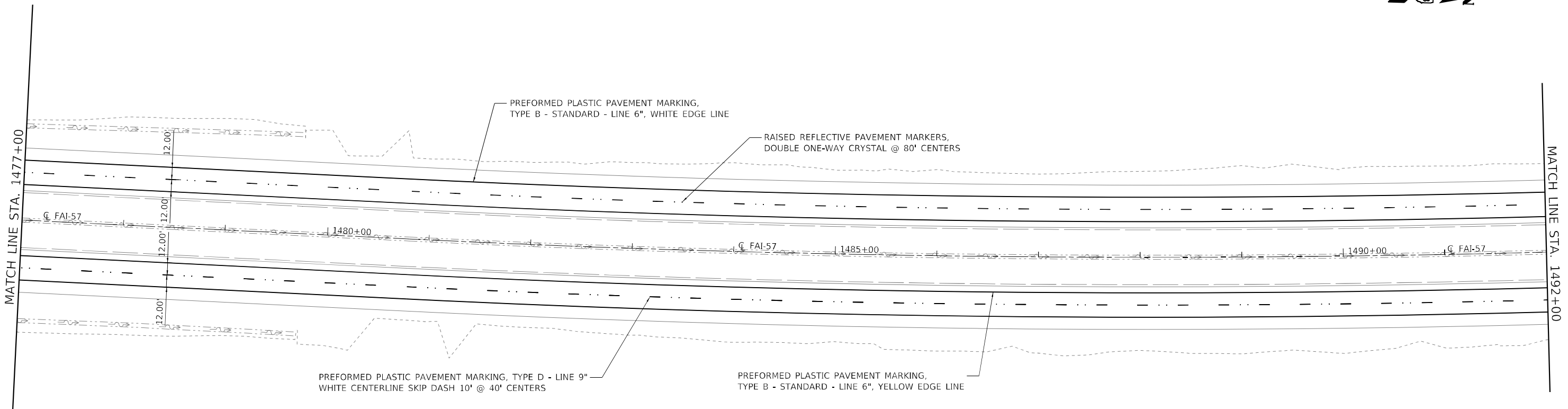
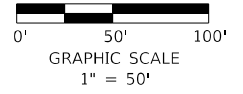
SCALE: 1" = 50'    SHEET 3    OF 7    SHEETS    STA. 1432+00    TO STA. 1462+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	112
CONTRACT NO. 76F79				
ILLINOIS FED. AID PROJECT NHP2-KC9D1(68)				



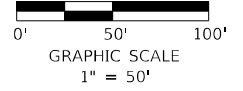
PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - LINE 9" WHITE CENTERLINE SKIP DASH 10' @ 40' CENTERS

PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - STANDARD - LINE 6", YELLOW EDGE LINE



PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - LINE 9" WHITE CENTERLINE SKIP DASH 10' @ 40' CENTERS

PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - STANDARD - LINE 6", YELLOW EDGE LINE



MODEL: Default  
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**HMG** HMG ENGINEERS, INC.  
9360 HOLY CROSS LANE  
BREESE, ILLINOIS 62230  
Engineers & Surveyors  
(618) 526-9611  
IL PROF. DESIGN FIRM NO. 184.000899

USER NAME = mobrien  
DESIGNED -  
DRAWN -  
CHECKED -  
DATE -  
PLOT SCALE = 100,0000' / in.  
PLOT DATE = 3/21/2022

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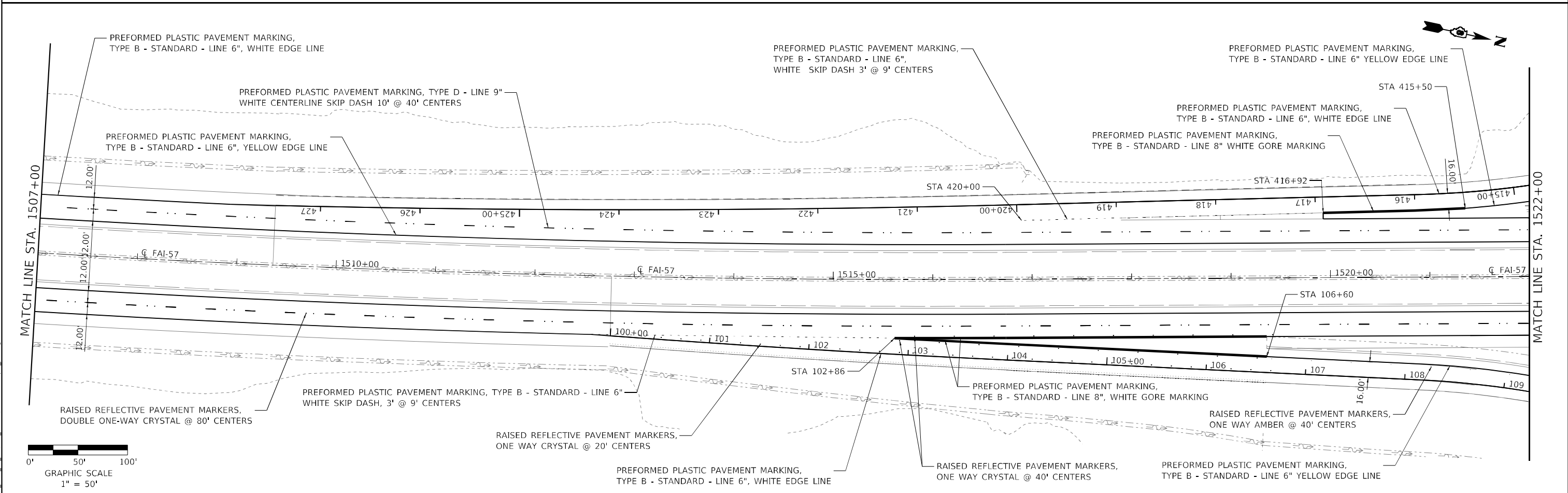
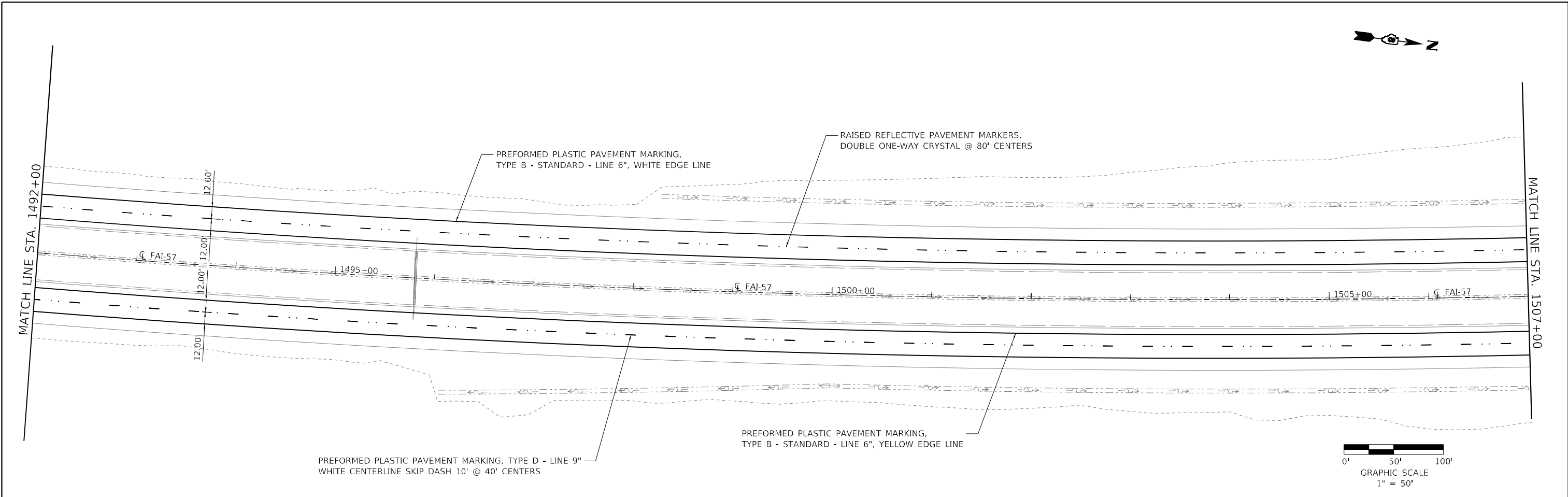
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REVISED -  
REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN  
FAI-57**

SCALE: 1" = 50' SHEET 4 OF 7 SHEETS STA. 1462+00 TO STA. 1492+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	113
CONTRACT NO. 76F79				
ILLINOIS FED. AID PROJECT NHPP-KC9D(768)				



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**HMG** HMG ENGINEERS, INC.  
 9360 HOLY CROSS LANE  
 BREESE, ILLINOIS 62230  
 Engineers & Surveyors (618) 526-9611

USER NAME =	mobrien
PLOT SCALE =	100,0000' / in.
PLOT DATE =	3/21/2022

DESIGNED -	
DRAWN -	
CHECKED -	
DATE -	

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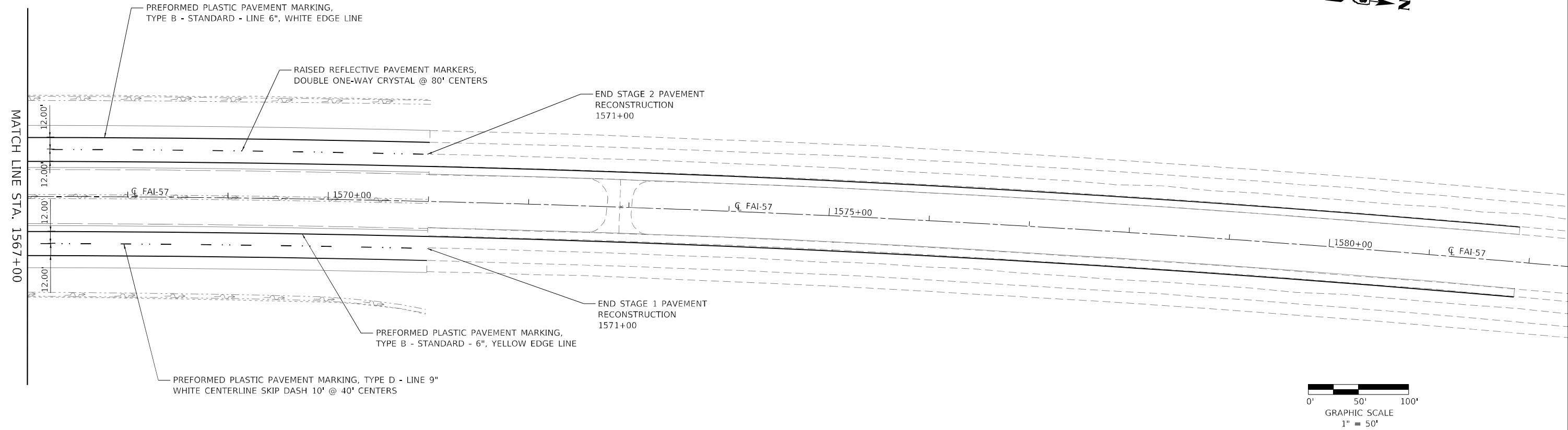
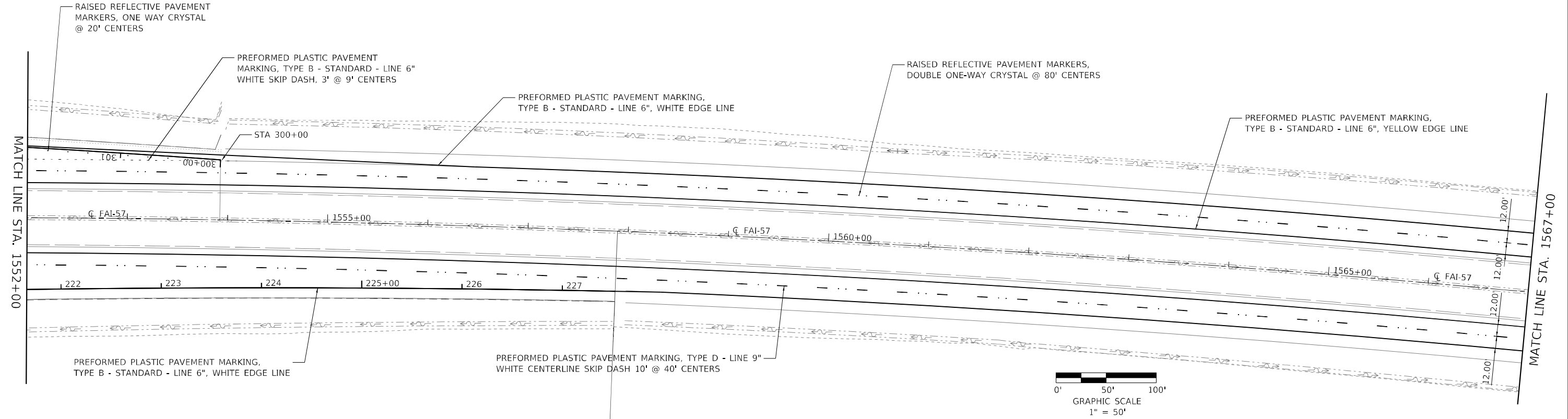
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>PAVEMENT MARKING PLAN</b> <b>FAI-57</b>			
SCALE: 1" = 50'	SHEET 5	OF 7 SHEETS	STA. 1492+00 TO STA. 1522+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	114
CONTRACT NO. 76F79				
ILLINOIS FED. AID PROJECT NHPK-KC90(768)				







MODEL: Default  
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**HMG** HMG ENGINEERS, INC.  
 9360 HOLY CROSS LANE  
 BREESE, ILLINOIS 62230  
 Engineers & Surveyors (618) 526-9611  
 IL PROF. DESIGN FIRM NO. 184.000899

USER NAME = mobrien  
 PLOT SCALE = 100,0000 ' / in.  
 PLOT DATE = 3/21/2022

DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

REVISED -  
 REVISED -  
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 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN  
 FAI-57**

SCALE: 1" = 50'    SHEET 7 OF 7 SHEETS    STA. 1552+00 TO STA. 1583+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	116
CONTRACT NO. 76F79				
ILLINOIS FED. AID PROJECT NHPP-KC9D(768)				

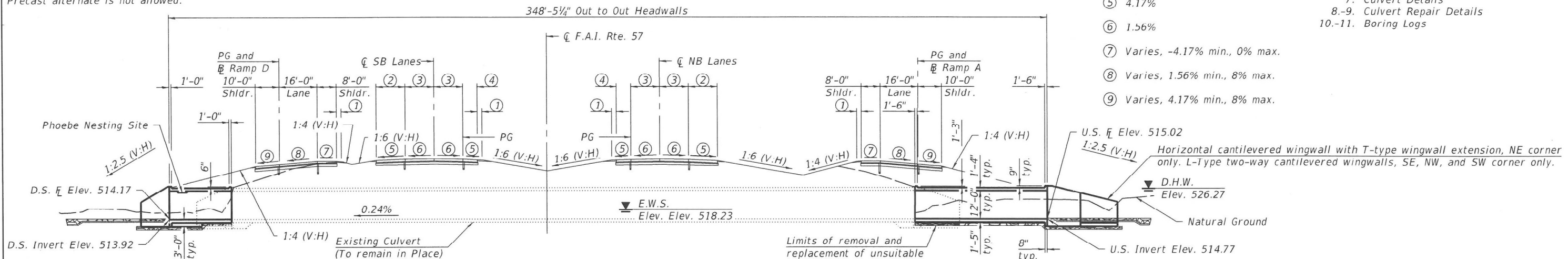
Benchmark: Chisled "□" located at top Northwest corner of headwall on Downstream opening of Raccoon Creek, Elev. 527.64

Existing Structure: S.N. 061-2000 was built in 1966 as F.A.I. Route 57 in Section 61-1B-1. The existing structure is a three-cell reinforced concrete box culvert with attached T-type wings. The overall length of the culvert is 281'-9 3/8" and the overall width of the culvert is 45'-8". Stage construction shall be utilized.

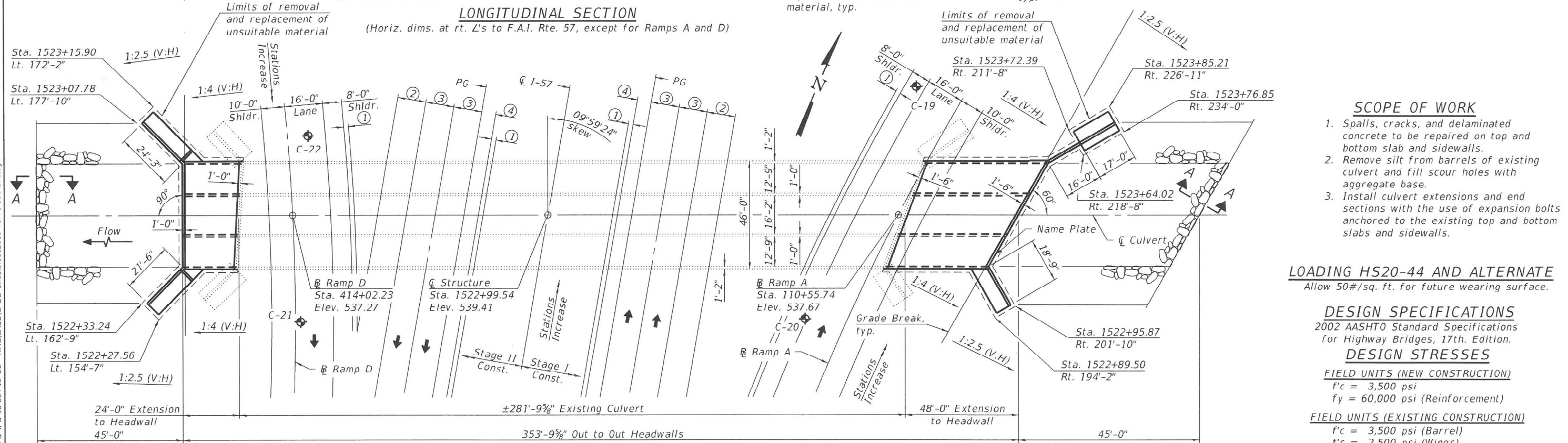
No Salvage.

Precast alternate is not allowed.

INDEX OF SHEETS	
1.	General Plan and Elevation
2.	General Data and Elevation
3.	General Data
4.	Plan of Top Slab
5.	Plan of Bottom Slab
6.	Elevation Details
7.	Culvert Details
8.-9.	Culvert Repair Details
10.-11.	Boring Logs



- ① 2'-0" Aggregate Shoulder
- ② 12'-0" Shoulder
- ③ 12'-0" Lane
- ④ 6'-0" Shoulder
- ⑤ 4.17%
- ⑥ 1.56%
- ⑦ Varies, -4.17% min., 0% max.
- ⑧ Varies, 1.56% min., 8% max.
- ⑨ Varies, 4.17% min., 8% max.



- SCOPE OF WORK**
1. Spalls, cracks, and delaminated concrete to be repaired on top and bottom slab and sidewalls.
  2. Remove silt from barrels of existing culvert and fill scour holes with aggregate base.
  3. Install culvert extensions and end sections with the use of expansion bolts anchored to the existing top and bottom slabs and sidewalls.

**LOADING HS20-44 AND ALTERNATE**  
Allow 50#/sq. ft. for future wearing surface.

**DESIGN SPECIFICATIONS**  
2002 AASHTO Standard Specifications for Highway Bridges, 17th Edition.

**DESIGN STRESSES**

**FIELD UNITS (NEW CONSTRUCTION)**  
f'c = 3,500 psi  
fy = 60,000 psi (Reinforcement)

**FIELD UNITS (EXISTING CONSTRUCTION)**  
f'c = 3,500 psi (Barrel)  
f'c = 2,500 psi (Wings)  
fy = 40,000 psi (Reinforcement)

**WATERWAY INFORMATION**

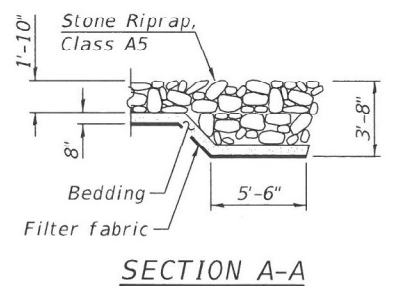
Drainage Area = 12.52 sq. mi.		Low Grade Elev. 539.27 (E) 539.27 (P) @ Sta. 1521+32.45								
Flood	Freq. Yr.	Q C.F.S.	Opening Ft <sup>2</sup>		Nat. H.W.E.		Head - Ft.		Headwater El.	
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
	10	2370	186.19	186.19	524.73	-0.07	-0.07	524.66	524.66	
	50	3810	255.71	255.71	525.93	-0.03	-0.03	525.90	525.90	
Design	100	4460	283.83	283.83	526.27	0.00	0.00	526.27	526.27	
Base	100	4460	283.30	283.30	526.70	-0.43	-0.43	526.27	526.27	
Overtopping	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Max. Calc.	500	6050	347.99	347.99	526.91	0.00	0.00	526.91	526.91	

**APPROVED**  
For Structural Adequacy Only

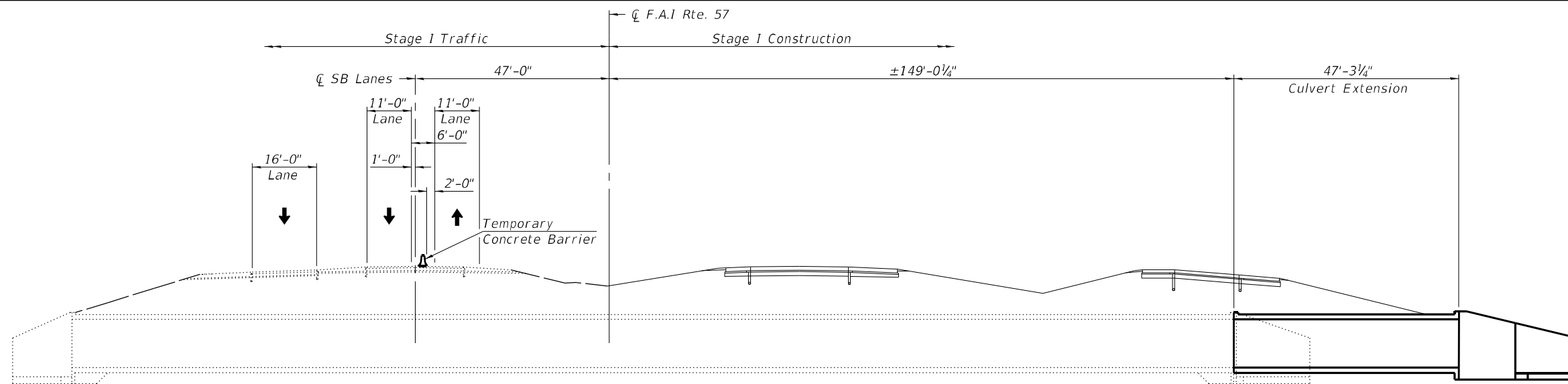
Eric Lagemann  
Engineer of Bridges & Structures

**STATE OF ILLINOIS**  
ERIC M. LAGEMANN  
LICENSE NO. 081-006124  
STRUCTURAL ENGINEER

Eric Lagemann 2/9/22  
License Expires 11/30/2022 Date

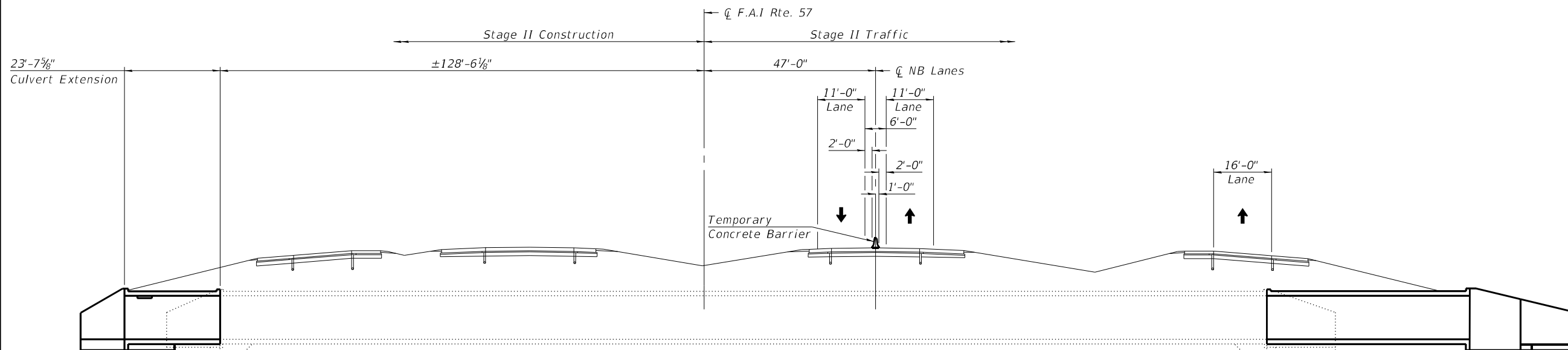


**GENERAL PLAN & ELEVATION**  
**I-57 OVER RACCOON CREEK**  
**F.A.I. RTE. 57 - SECTION 61-(1,1-1,1-2,2)RS-1**  
**MARION COUNTY**  
**STATION 1522+99.54**  
**STRUCTURE NO. 061-2000**



**CURVE DATA**  
**PROPOSED RAMP A**  
 P.I. Sta. = 111+79.00  
 Δ = 41°39'05" (Rt.)  
 D = 5°58'06"  
 R = 960.00'  
 T = 365.16'  
 L = 697.88'  
 E = 67.10'  
 e = 8%  
 T.R. = 38.37' in, 0' out  
 S.E. Run. = 243' in, 166.26' out  
 P.C. Sta. = 108+13.84  
 P.T. Sta. = 115+11.71

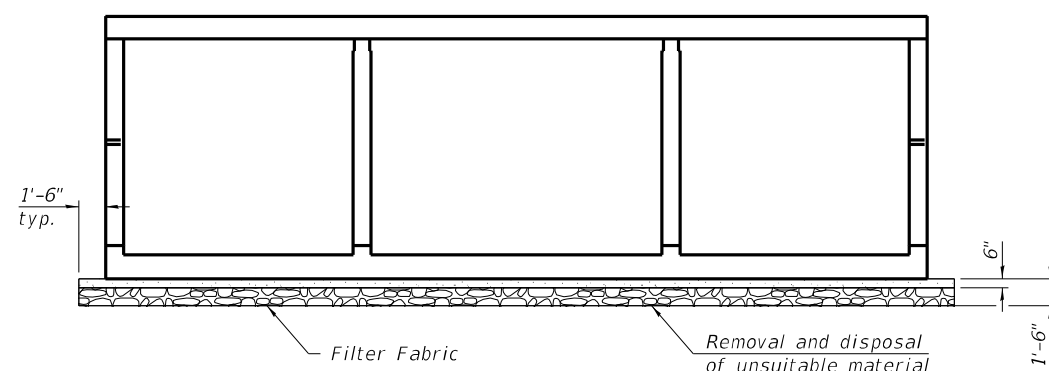
**STAGE I CONSTRUCTION**  
 (Horizontal dimensions at rt. L's to F.A.I. Rte. 57, except for Ramp D)  
 (Looking North)



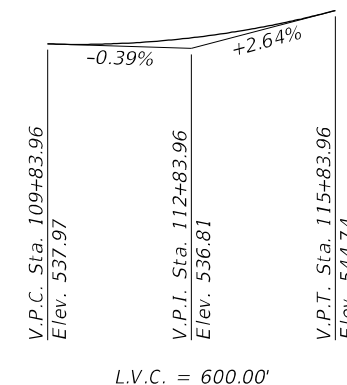
**CURVE DATA**  
**PROPOSED RAMP D**  
 P.I. Sta. = 412+70.64  
 Δ = 40°31'11" (Rt.)  
 D = 5°58'06"  
 R = 960.00'  
 T = 354.35'  
 L = 678.91'  
 E = 63.31'  
 e = 8%  
 T.R. = 0' in, 38.37' out  
 S.E. Run. = 166.26' in, 243' out  
 P.C. Sta. = 409+16.29  
 P.T. Sta. = 415+95.20

**STAGE II CONSTRUCTION**  
 (Horizontal dimensions at rt. L's to F.A.I. Rte. 57, except for Ramp A)  
 (Looking North)

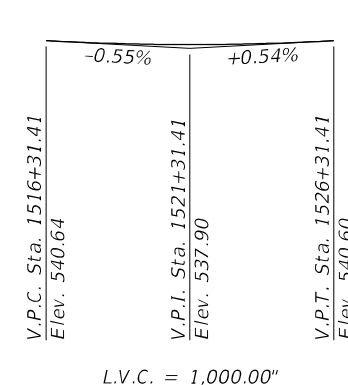
Note:  
 For quantity of Temporary Concrete Barrier, see Roadway Plans.



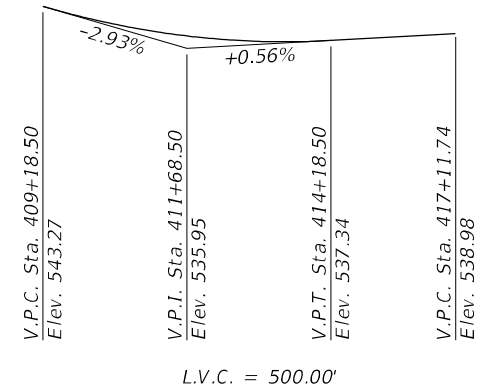
**LIMITS OF UNSUITABLE MATERIAL REMOVAL**



**PROFILE GRADE**  
 (Along R Ramp A)



**PROFILE GRADE**  
 (Along F.A.I. 57)



**PROFILE GRADE**  
 (Along R Ramp D)

MODEL: 0612000-76F79-002  
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 <b>FUHRMANN ENGINEERING</b> WWW.FUHRMANN-ENG.COM	USER NAME =	DESIGNED - A.H. Morinaga Mansilla	REVISED -
	PLOT SCALE =	CHECKED - E.M. Lagemann	REVISED -
	PLOT DATE =	DRAWN - A.H. Morinaga Mansilla	REVISED -
		CHECKED - E.M. Lagemann	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA AND ELEVATION**  
**STRUCTURE NO. 061-2000**

SHEET 2 OF 11 SHEETS

F.A.I. RTE. 57	SECTION 61-(1,1-1,1-2,2)RS-1	COUNTY MARION	TOTAL SHEETS 484	SHEET NO. 118
CONTRACT NO. 76F79				
ILLINOIS FED. AID PROJECT				

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Stone Riprap, Class A5	Sq. Yd.	726
Filter Fabric	Sq. Yd.	1,256
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	259
Reinforcement Bars	Pound	191,270
Name Plates	Each	1
Expansion Bolts 3/4 inch x 18 inch	Each	158
Concrete Box Culverts	Cu. Yd.	585.2
Epoxy Crack Injection	Foot	1,096
Box Culverts To Be Cleaned	Foot	755
Structural Repair of Concrete (Depth equal to or less than 5 inches)	Sq. Ft.	171
Rock Fill	Cu. Yd.	259

**GENERAL NOTES**

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

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

Expansion bolts shall consist of self-drilling expansion shields and 3/4 inch diameter hooked bolts. Hooked bolts shall extend a minimum of 9 inches into new concrete. Minimum certified proof load is 4 kips.

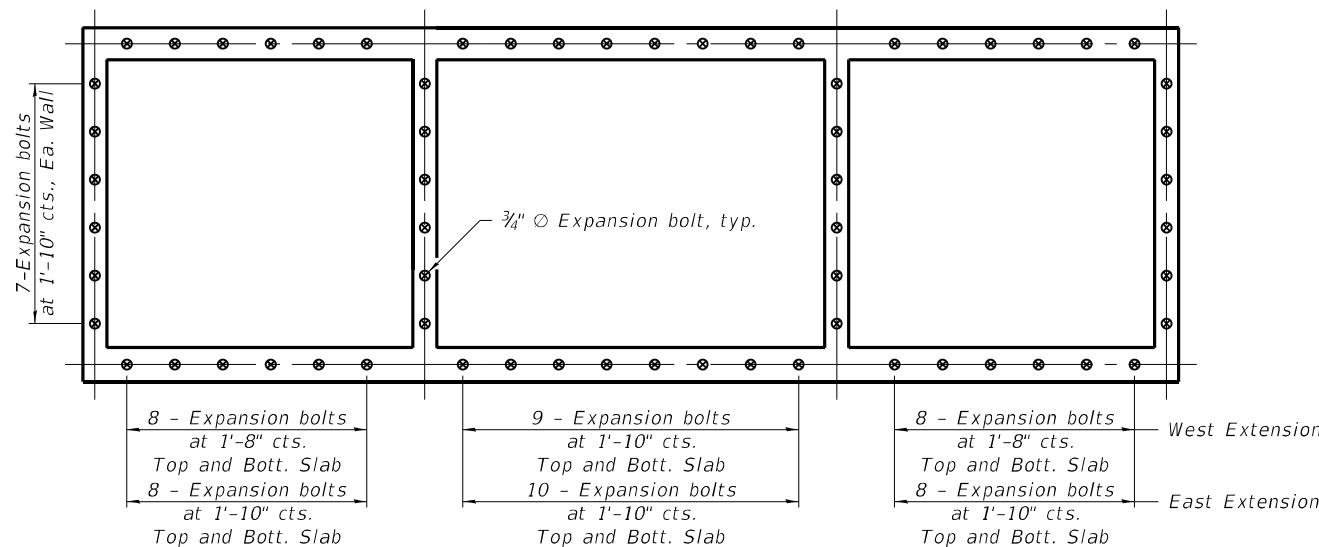
The limits and quantities of removal and replacement shown are based on the boring data and may be modified by the District Geotechnical and Field Engineers for variable subsurface conditions encountered in the field.

The Rockfill shall be capped with 6 in. of CA7 and satisfy the Standard Specifications unless otherwise indicated in the Special Provisions. The cost of the capping material shall be included in the pay item for Rock Fill.

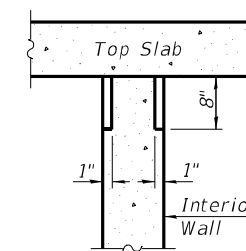
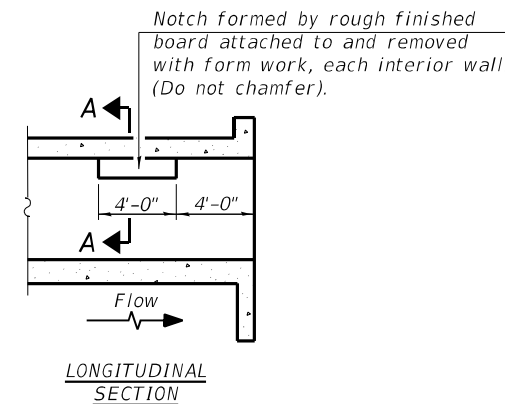
STATION 1522+99.54  
RE-BUILT 202\_ BY  
STATE OF ILLINOIS  
F.A.I. RT. 57  
SEC. 61-(1,1-1,1-2,2)RS-1  
LOADING HS-20 ALT.  
STRUCTURE NO. 061-2000

**NAME PLATE**

Existing Name Plate shall be cleaned and relocated next to new Name Plate. Cost included with Name Plates.



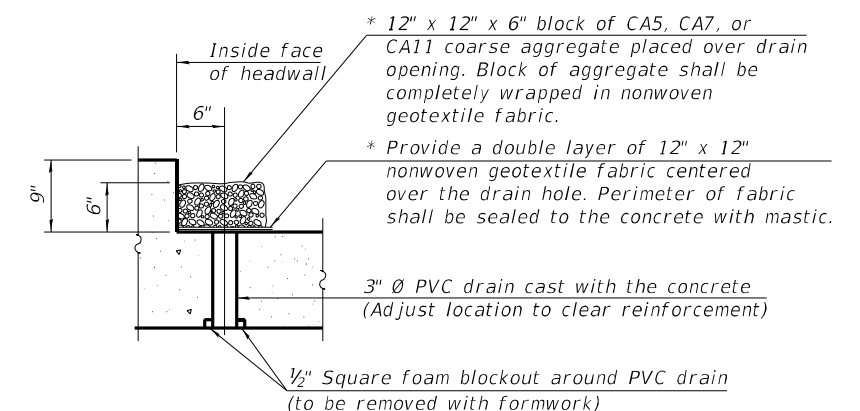
**EXPANSION BOLTS FOR CULVERT EXTENSION**



**SECTION A-A**

**PHOEBE NESTING**

**SITE DETAILS**  
(Downstream End Only)



**DRAIN DETAIL**

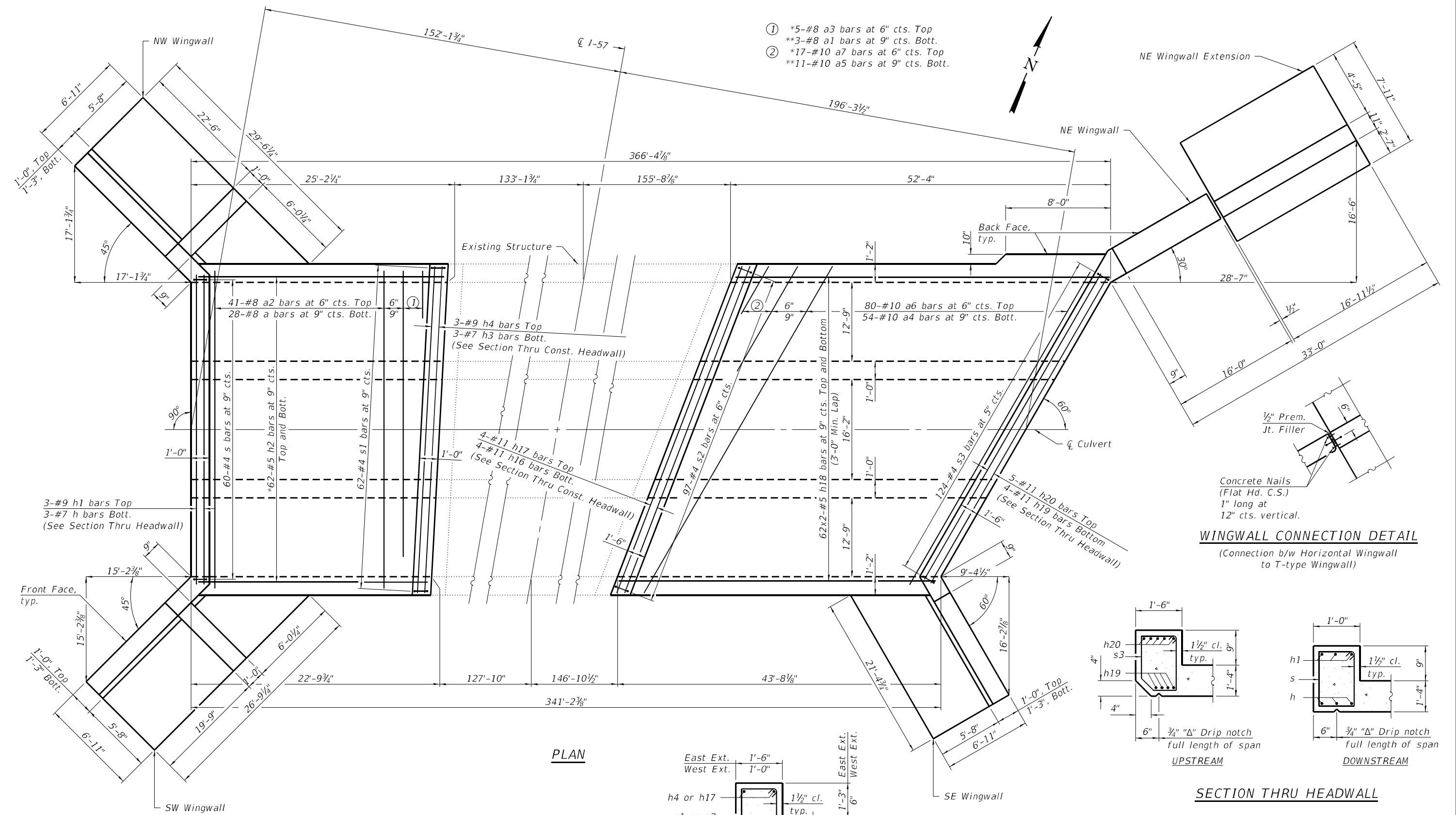
(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)

MODEL: 0612000-76F79-003  
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USER NAME =	DESIGNED - A.H. Morinaga Mansilla	REVISED -
	CHECKED - E.M. Lagemann	REVISED -
PLOT SCALE =	DRAWN - A.H. Morinaga Mansilla	REVISED -
PLOT DATE =	CHECKED - E.M. Lagemann	REVISED -

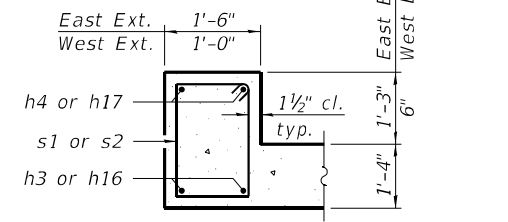
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57	61-(1,1-1,1-2,2)RS-1	MARION	484	119
CONTRACT NO. 76F79				
ILLINOIS FED. AID PROJECT				

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 2/9/2022 11:37:58 AM



- ① \*5-#8 a3 bars at 6" cts. Top  
 \*\*3-#8 a1 bars at 9" cts. Bott.
- ② \*17-#10 a7 bars at 6" cts. Top  
 \*\*11-#10 a5 bars at 9" cts. Bott.

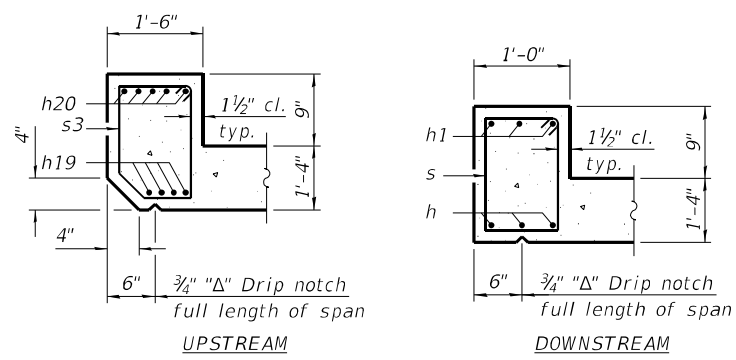
**PLAN**



**SECTION THRU CONST. HEADWALL**

**WINGWALL CONNECTION DETAIL**

(Connection b/w Horizontal Wingwall to T-type Wingwall)



**SECTION THRU HEADWALL**

\* Bars shall be ordered full length and cut per the cutting diagram. Balance of bars to be used in the Bottom Slab.  
 \*\* Cut bars in field to fit skew at inside face of Const. Headwall and use balance of bars in Bottom Slab.

Notes:  
 Bars indicated thus 62 x 2-#5 etc. indicates 62 lines of bars with 2 lengths per line.  
 For PLAN OF BOTTOM SLAB, see sheet 5 of 11.  
 For culvert details, see sheet 6 of 11.  
 For Bar Bending diagrams and Bill of Material, see sheet 7 of 11.  
 For Drain Details, see sheet 3 of 11.



USER NAME =	DESIGNED - A.H. Morinaga Mansilla	REVISED -
PLOT SCALE =	CHECKED - E.M. Lagemann	REVISED -
PLOT DATE =	DRAWN - A.H. Morinaga Mansilla	REVISED -
	CHECKED - E.M. Lagemann	REVISED -

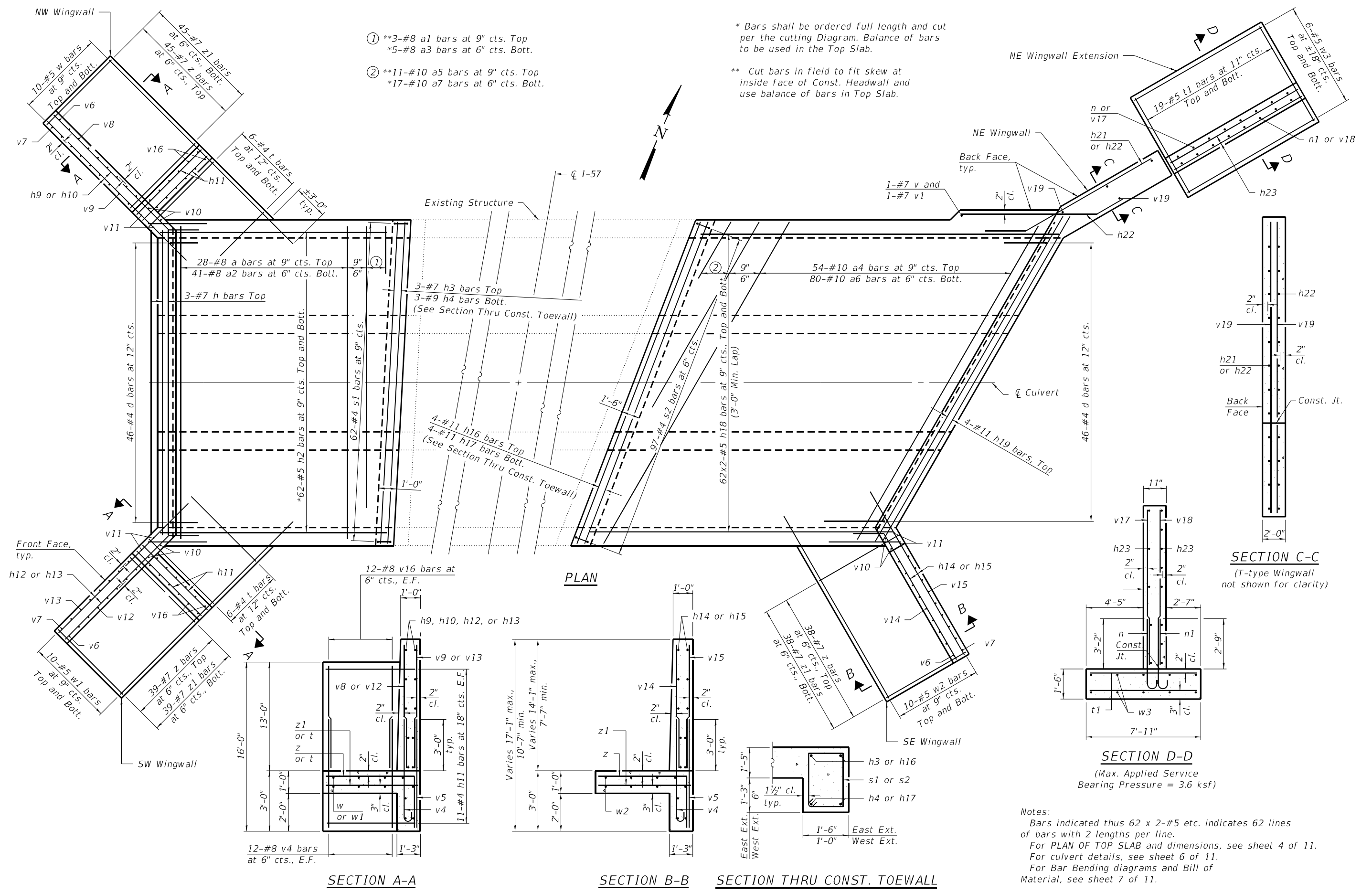
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PLAN OF TOP SLAB  
 STRUCTURE NO. 061-2000**

SHEET 4 OF 11 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 76F79				
ILLINOIS FED. AID PROJECT				

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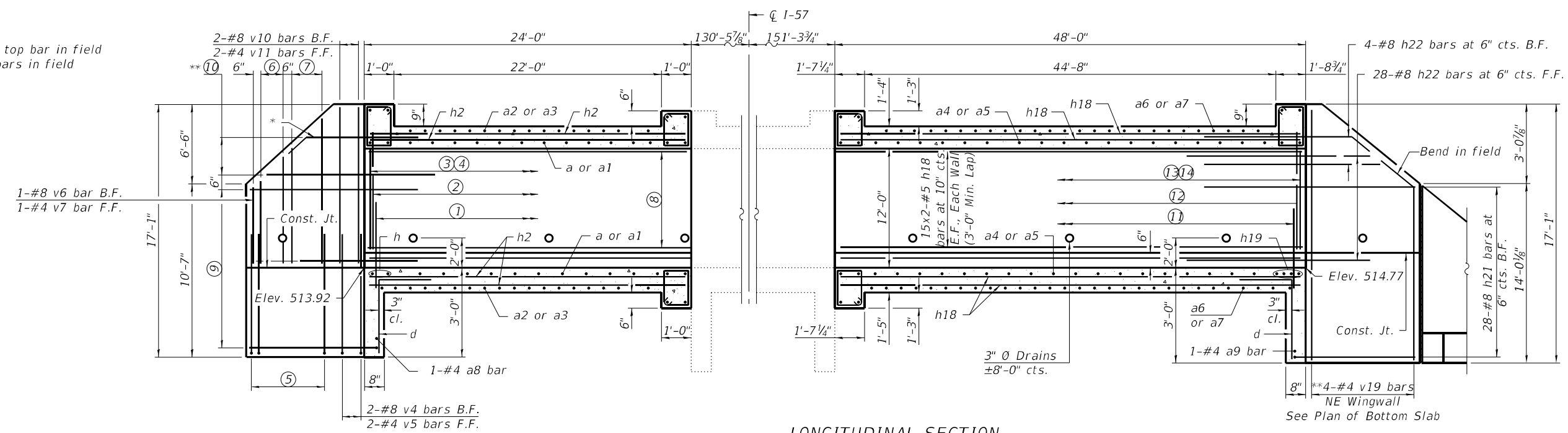
- ① \*\*3-#8 a1 bars at 9" cts. Top  
\*5-#8 a3 bars at 6" cts. Bott.
- ② \*\*11-#10 a5 bars at 9" cts. Top  
\*17-#10 a7 bars at 6" cts. Bott.

\* Bars shall be ordered full length and cut per the cutting Diagram. Balance of bars to be used in the Top Slab.

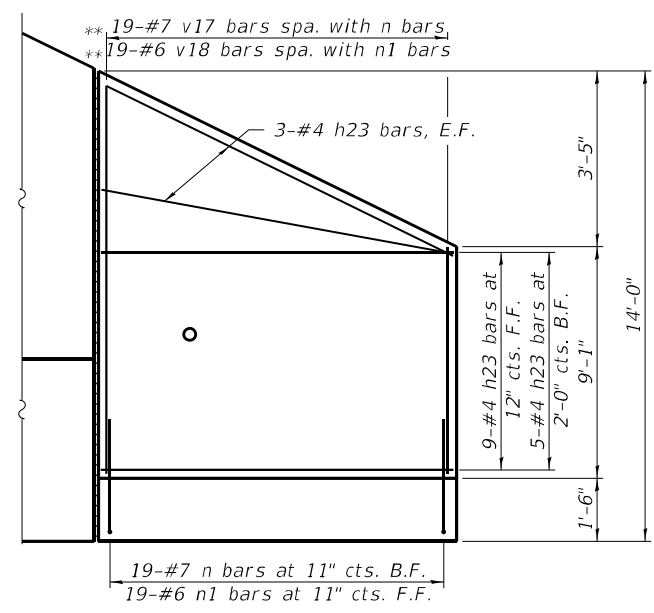
\*\* Cut bars in field to fit skew at inside face of Const. Headwall and use balance of bars in Top Slab.

 <b>FUHRMANN ENGINEERING</b> WWW.FUHRMANN-ENG.COM	USER NAME =	DESIGNED - A.H. Morinaga Mansilla	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN OF BOTTOM SLAB</b> <b>STRUCTURE NO. 061-2000</b>	F.A.I. RTE. =	SECTION =	COUNTY =	TOTAL SHEETS =	SHEET NO. =
	PLOT SCALE =	DRAWN - A.H. Morinaga Mansilla	REVISED -			57	61-(1,1-1,1-2,2)RS-1	MARION	484	121
PLOT DATE =	CHECKED - E.M. Lagemann	REVISED -		SHEET 5 OF 11 SHEETS		CONTRACT NO. 76F79		ILLINOIS / FED. AID PROJECT		

\*Bend top bar in field  
 \*\*Cut bars in field



**LONGITUDINAL SECTION**  
 (Dimensions along C Culvert)



**NE WINGWALL EXTENSION ELEVATION**

- ① 50-#7 v bars at 6" cts. I.F., North Exterior Wall  
 33-#7 v bars at 9" cts., North Interior Wall  
 31-#7 v bars at 9" cts., South Interior Wall  
 46-#7 v bars at 6" cts. I.F., South Exterior Wall
- ② 50-#7 v1 bars at 6" cts. I.F., North Exterior Wall  
 46-#7 v1 bars at 6" cts. I.F., South Exterior Wall
- ③ 25-#7 v2 bars at 12" cts. O.F., North Exterior Wall  
 33-#7 v2 bars at 9" cts. E.F., North Interior Wall  
 31-#7 v2 bars at 9" cts. E.F., South Interior Wall  
 23-#7 v2 bars at 12" cts. O.F., South Exterior Wall
- ④ 33-#7 v3 bars alt. lapped with v2 bars North Interior Wall  
 31-#7 v3 bars alt. lapped with v2 bars South Interior Wall
- ⑤ 45-#8 v4 bars at 6" cts. B.F., NW Wingwall  
 45-#4 v5 bars at 6" cts. F.F., NW Wingwall  
 39-#8 v4 bars at 6" cts. B.F., SW Wingwall  
 39-#4 v5 bars at 6" cts. F.F., SW Wingwall  
 35-#8 v4 bars at 6" cts. B.F., SE Wingwall  
 35-#4 v5 bars at 6" cts. F.F., SE Wingwall
- ⑥ 22-#8 v8 bars at 6" cts. B.F., First Set NW Wingwall  
 22-#4 v9 bars at 6" cts. F.F., First Set NW Wingwall  
 19-#8 v12 bars at 6" cts. B.F., First Set SW Wingwall  
 19-#4 v13 bars at 6" cts. F.F., First Set SW Wingwall  
 17-#8 v14 bars at 6" cts. B.F., First Set SE Wingwall  
 17-#4 v15 bars at 6" cts. F.F., First Set SE Wingwall
- ⑦ 22-#8 v8 bars at 6" cts. B.F., Second Set NW Wingwall  
 22-#4 v9 bars at 6" cts. F.F., Second Set NW Wingwall  
 19-#8 v12 bars at 6" cts. B.F., Second Set SW Wingwall  
 19-#4 v13 bars at 6" cts. F.F., Second Set SW Wingwall  
 17-#8 v14 bars at 6" cts. B.F., Second Set SE Wingwall  
 17-#4 v15 bars at 6" cts. F.F., Second Set SE Wingwall
- ⑧ 15-#5 h5 bars at 10" cts. E.F., North Exterior Wall  
 15-#5 h6 bars at 10" cts. E.F., North Interior Wall  
 15-#5 h7 bars at 10" cts. E.F., South Interior Wall  
 15-#5 h8 bars at 10" cts. E.F., South Exterior Wall
- ⑨ 21-#8 h9 bars at 6" cts. E.F., NW Wingwall  
 21-#8 h12 bars at 6" cts. E.F., SW Wingwall  
 21-#8 h14 bars at 6" cts. E.F., SE Wingwall
- ⑩ 11-#8 h10 bars at 6" cts. E.F., NW Wingwall  
 11-#8 h13 bars at 6" cts. E.F., SW Wingwall  
 11-#8 h15 bars at 6" cts. E.F., SE Wingwall
- ⑪ 104-#7 v bars at 6" cts. I.F., North Exterior Wall  
 66-#7 v bars at 9" cts., North Interior Wall  
 62-#7 v bars at 9" cts., South Interior Wall  
 87-#7 v bars at 6" cts. I.F., South Exterior Wall
- ⑫ 104-#7 v1 bars at 6" cts. I.F., North Exterior Wall  
 87-#7 v1 bars at 6" cts. I.F., South Exterior Wall
- ⑬ 52-#7 v2 bars at 12" cts. O.F., North Exterior Wall  
 66-#7 v2 bars at 9" cts. E.F., North Interior Wall  
 62-#7 v2 bars at 9" cts. E.F., South Interior Wall  
 44-#7 v2 bars at 12" cts. O.F., South Exterior Wall
- ⑭ 66-#7 v3 bars alt. lapped with v2 bars North Interior Wall  
 62-#7 v3 bars alt. lapped with v2 bars South Interior Wall

Notes:  
 For PLAN OF TOP SLAB, see sheet 4 of 11.  
 For PLAN OF BOTTOM SLAB, see sheet 5 of 11.  
 For Bending diagrams and Bill of Material, see sheet 7 of 11.

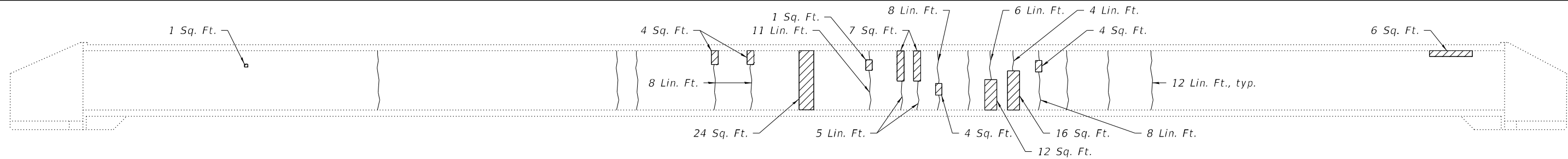
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	CHECKED - E.M. Lagemann	REVISED -
PLOT SCALE =	DRAWN - A.H. Morinaga Mansilla	REVISED -
PLOT DATE =	CHECKED - E.M. Lagemann	REVISED -

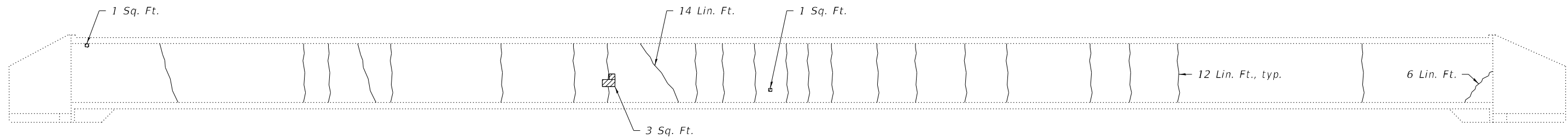
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CONTRACT NO. 76F79				
ILLINOIS		FED. AID PROJECT		



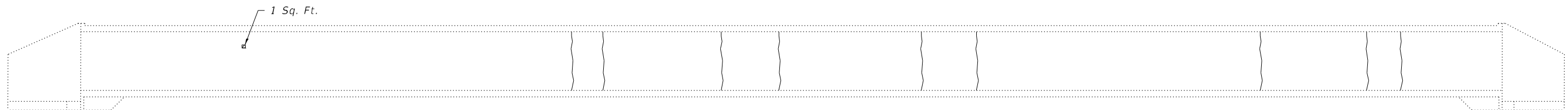




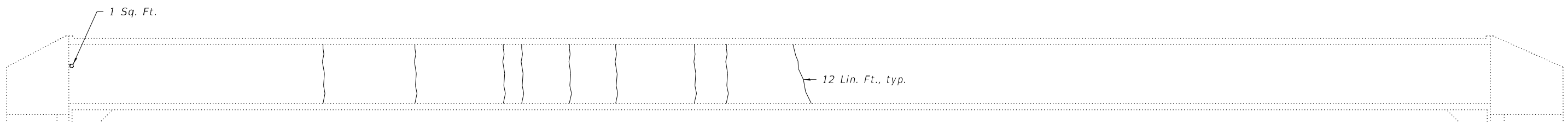
**ELEVATION - SOUTH CELL - SOUTH WALL**  
(Looking South)





**ELEVATION - SOUTH CELL - NORTH WALL**  
(Looking North)



**ELEVATION - CENTER CELL - SOUTH WALL**  
(Looking South)



**ELEVATION - CENTER CELL - NORTH WALL**  
(Looking North)

- LEGEND**
-  Structural Repair of Concrete (Depth equal to or less than 5")
  -  Epoxy Crack Injection

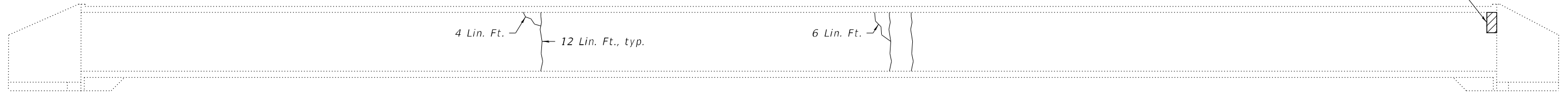
Notes:  
For Bill of Material, see sheet 9 of 11.  
Culvert Extension not shown for clarity.

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2/9/2022 11:46:15 AM

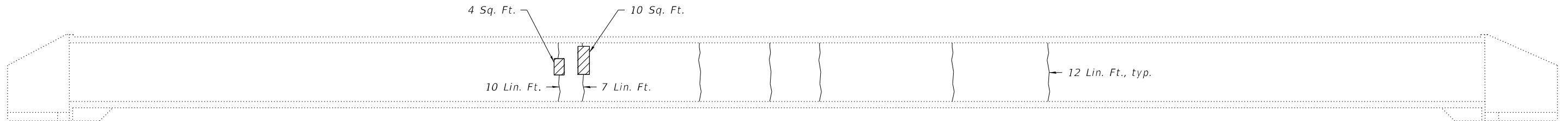
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	CHECKED - E.M. Lagemann	REVISED -
PLOT SCALE =	DRAWN - A.H. Morinaga Mansilla	REVISED -
PLOT DATE =	CHECKED - E.M. Lagemann	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	124
CONTRACT NO. 76F79				
ILLINOIS FED. AID PROJECT				

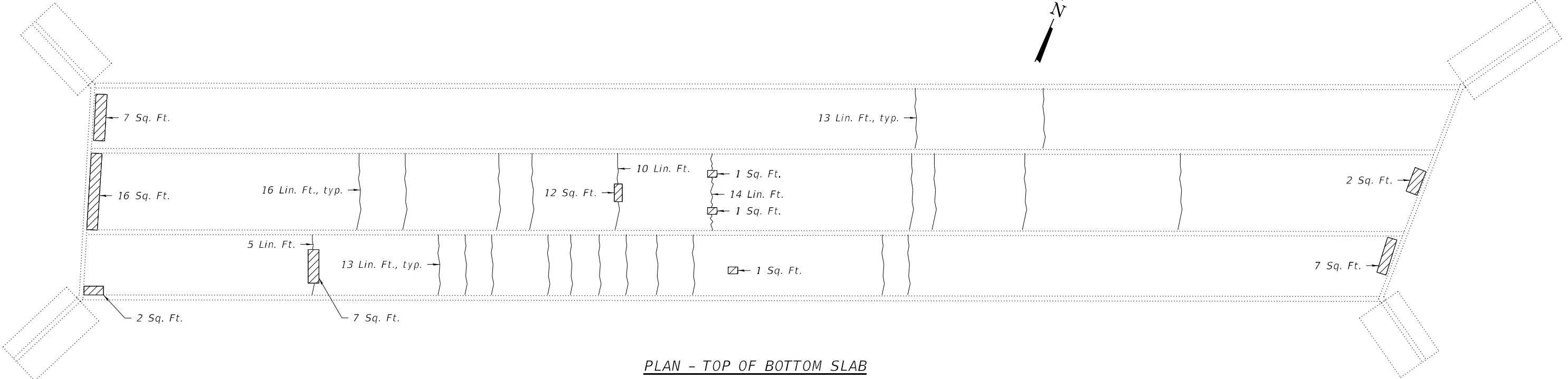
5 Sq. Ft.



**ELEVATION - NORTH CELL - SOUTH WALL**  
(Looking South)



**ELEVATION - NORTH CELL - NORTH WALL**  
(Looking North)



**PLAN - TOP OF BOTTOM SLAB**

Notes:  
Culvert Extension not shown for clarity.  
Repair quantities are based on field investigation performed in 2020.

**LEGEND**

- Structural Repair of Concrete (Depth equal to or less than 5")
- Epoxy Crack Injection

**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Epoxy Crack Injection	Foot	1,096
Structural Repair of Concrete (Depth equal to or less than 5 inches)	Sq. Ft.	171

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	CHECKED - E.M. Lagemann	REVISED -
PLOT SCALE =	DRAWN - A.H. Morinaga Mansilla	REVISED -
PLOT DATE =	CHECKED - E.M. Lagemann	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CULVERT REPAIR DETAILS  
STRUCTURE NO. 061-2000**

SHEET 9 OF 11 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	125
CONTRACT NO. 76F79				
ILLINOIS FED. AID PROJECT				



SOIL BORING LOG

ROUTE I-57/IL-161 DESCRIPTION I-57 from Jefferson County Line LOGGED BY SCI

SECTION LOCATION Dix, Illinois

Lat 38.5173048 Long -88.9606790

COUNTY Marion DRILLING METHOD CME-75 Rig w/CFA HAMMER TYPE Automatic

STRUCT. NO. 061-2000 Station

BORING NO. C-19 Station

Ground Surface Elev. 535 ft

Table with 4 columns: DPTH, BLOS, UCS, MOIST. Values include 3, 4, 6, 5, 5, 11, 9, 12, 11, 2, 3, 3, 2, 4, 4, 1, 1, 1, 2.

Table with 4 columns: DPTH, BLOS, UCS, MOIST. Values include 1, 2, 2, 4, 3, 8, 12, 27, 46, 26, 50/5", 50/3", 26, 50/4", 2, 5, 5, 1, 2.

FILL: Brown, CLAY, moist, medium stiff, A-6

SILTY LOAM: Gray, moist, soft, A-4 (continued)

CLAY LOAM: Brown and gray, moist, stiff, A-6 Washed Sieve Analysis performed

CLAY LOAM: Brown and gray, moist, stiff, A-6 Washed Sieve Analysis performed

CLAY: Brown, moist, medium stiff, A-6 Atterberg Limits test performed

CLAYEY SHALE: Dark gray, hard, A-4

SILTY CLAY: Gray, moist, very soft, A-4

CLAY: Brown, moist, medium stiff, A-7

Boring terminated at 34.4 feet.

SILT: Dark gray, moist, A-4 Field observation.

Becomes soft

SAND: Dark gray, fine to coarse grained, loose, very loose, A-3

Ground Surface Elev. 515.0

Ground Surface Elev. 516.0

Table with 4 columns: DPTH, BLOS, UCS, MOIST. Values include 2, 2, 2.

Table with 4 columns: DPTH, BLOS, UCS, MOIST. Values include 2, 2, 2.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

ROUTE I-57/IL-161 DESCRIPTION I-57 from Jefferson County Line LOGGED BY SCI

SECTION LOCATION Dix, Illinois

Lat 38.5170839 Long -88.9606841

COUNTY Marion DRILLING METHOD CME-75 Rig w/CFA HAMMER TYPE Automatic

STRUCT. NO. 061-2000 Station

BORING NO. C-20 Station

Ground Surface Elev. 535 ft

Table with 4 columns: DPTH, BLOS, UCS, MOIST. Values include 2, 4, 8, 4, 7, 10, 6, 6, 8, 3, 4, 5, 3, 3, 4, 2, 2, 2, 3, 5, 5, 1, 2.

Table with 4 columns: DPTH, BLOS, UCS, MOIST. Values include 1, 1, 1, 1, 2, 2, 4, 6, 19, 50/4", 50/6", 1, 2.

FILL: Brown, CLAY, moist, stiff, A-7

SAND: Dark gray, fine to coarse grained, loose, very loose, A-3 (continued)

Becomes very stiff

SAND: Dark gray, fine to coarse grained, medium dense, A-2

Becomes brown and gray, stiff Atterberg Limits test performed

COAL

CLAY: Brown, moist, medium stiff, A-7

SHALE: Gray, hard

Boring terminated at 39.0 feet.

Boring terminated at 39.0 feet.

Becomes gray, soft

SILT: Dark gray, moist, A-4 Field observation.

Ground Surface Elev. 517.5

Ground Surface Elev. 496.0

Table with 4 columns: DPTH, BLOS, UCS, MOIST. Values include 1, 2.

Table with 4 columns: DPTH, BLOS, UCS, MOIST. Values include 1, 2.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

MODEL: 0612000-76F79-010 FILE NAME: G:\PE\jobs\2020\20-1635 PTB 19c-46 1-57 IL 161 PH 1 & II D-98-064-12 D6 - HMG\CADD\CADD Sheets\0612000-76F79-010-BoringLogs.dgn





Existing Structure: Structure No. 061-0017 built in 1968 as Section 61-1HB-3. The superstructure consists of a four span continuous rolled beam bridge with a 7" cast-in-place concrete deck and a 6 1/2" cast-in-place concrete voided median. A 1 3/4" bituminous wearing surface was added to the deck after original construction. Abutments are pile supported stub abutments with expansion bearings. Multi-column piers are supported by a spread footing for the two westernmost piers and by piles for the east pier. The back to back of abutments length is 233'-6" and out to out of deck width is 58'-0". The span lengths are 44'-4", 71'-5", 71'-5", and 41'-6". The structure is on a 10°21'47" right forward skew. One lane of traffic will be maintained utilizing stage construction.

**SCOPE OF WORK**

- 1.) Maintain one lane of traffic utilizing Stage Construction.
- 2.) Remove the existing bituminous wearing surface.
- 3.) Repair the existing slope walls.
- 4.) Retrofit the existing crash walls at Piers No. 1 and No. 3.
- 5.) Jack and remove the existing bearings at the abutments.
- 6.) Install elastomeric bearings with steel extensions at the abutments.
- 7.) Replace the existing expansion joints with preformed joint strip seal.
- 8.) Retrofit the existing Southwest and Northeast wingwalls.
- 9.) Retrofit the existing concrete parapets.
- 10.) Repair deck slab at the median.
- 11.) Remove side fillets along beams.
- 12.) Plug existing deck drains as indicated on the plans.
- 13.) Place waterproofing membrane and hot-mix asphalt surface course.
- 14.) Clean and paint ends of girders as indicated in the general notes.

**INDEX OF SHEETS**

SHEET NO.	TITLE
1	GENERAL PLAN AND ELEVATION
2	GENERAL DATA
3	STAGE CONSTRUCTION
4	TEMPORARY CONCRETE BARRIER
5	DECK SLAB REPAIR DETAILS
6	RETROFIT CONCRETE PARAPET DETAILS
7-8	WINGWALL RETROFIT DETAILS
9-11	JOINT REPLACEMENT DETAILS
12	PREFORMED JOINT STRIP SEAL
13	BEARING REPLACEMENT DETAILS
14	TYPE I BEARING DETAILS
15	SLOPE WALL REPAIR DETAILS
16	PIER CRASH WALL RETROFIT
17	BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS

**LOADING HS20-44**

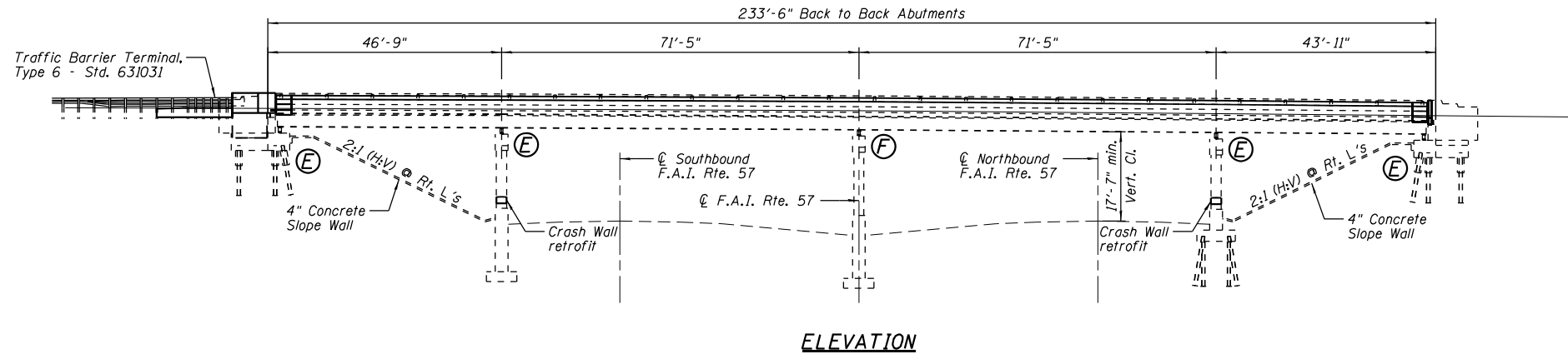
Original Construction  
Allow 18#/sq. ft. for future wearing surface.  
Current Construction  
No allowance for future wearing surface.

**DESIGN SPECIFICATIONS**

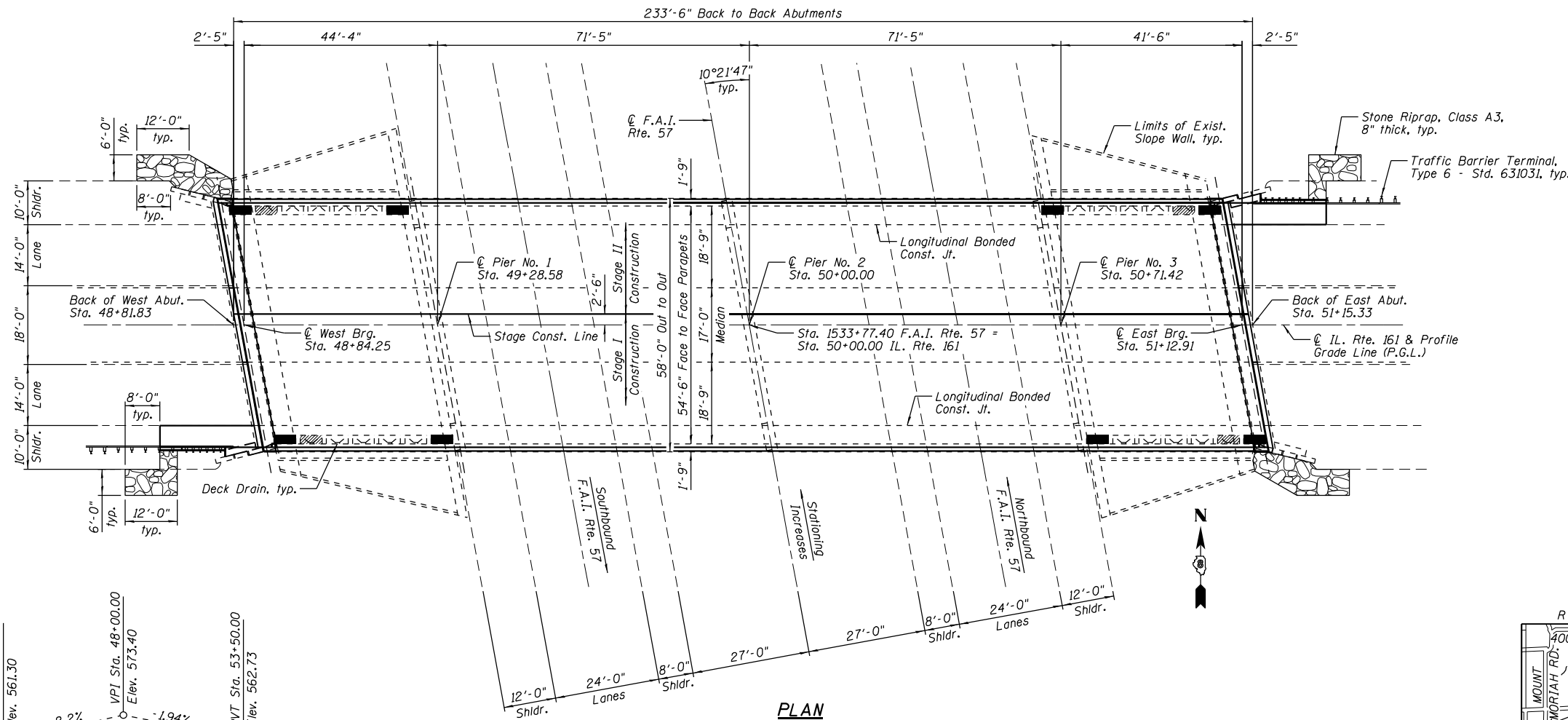
Current Construction  
2002 AASHTO Standard Specifications for Highway Bridges, 17th Edition

**DESIGN STRESSES**

Original Construction  
f<sub>c</sub> = 1,400 psi (Superstructure & Substructure)  
f<sub>s</sub> = 20,000 psi (Reinforcement)  
f<sub>s</sub> = 20,000 psi (Structural Steel) A-36  
V<sub>c</sub> = 75 psi (Footings)  
n = 10  
Current Construction  
Field Units  
f<sub>c</sub> = 3,500 psi  
f<sub>c</sub> = 4,000 psi (Superstructure)  
f<sub>y</sub> = 60,000 psi (Reinforcement)  
f<sub>y</sub> = 36,000 psi (Structural Steel)



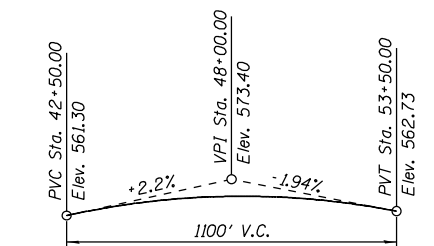
**ELEVATION**



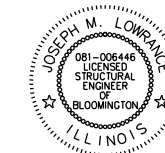
**PLAN**

**LEGEND**

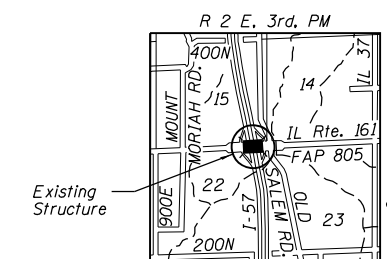
- Existing deck drain, previously plugged.
- ▨ Plug Existing Deck Drains.



**PROFILE GRADE PER 1965 PLANS**  
(See Sheet 3 of 17 for location of PGL)



Joseph M. Lowrance  
Date 1/26/2022  
JOSEPH M. LOWRANCE  
ILLINOIS STRUCTURAL ENGINEER  
NO. 081-006446  
Exp. Date 11/30/22



**LOCATION SKETCH**

**GENERAL PLAN AND ELEVATION**  
**IL. ROUTE 161 OVER**  
**INTERSTATE 57**  
**F.A.I. ROUTE 57 -**  
**SEC 61-(1,1-1,1-2,2)RS-1**  
**MARION COUNTY**  
**STATION 50+00.00**  
**STRUCTURE NO. 061-0017**



DESIGNED - MSJ	REVISED
CHECKED - JCZ	REVISED
DRAWN - DJM	REVISED
DATE - 01/26/2022	REVISI
CHECKED - JML	REVISED

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION**  
**STRUCTURE NO. 061-0017**

SHEET NO. 1 OF 17 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	129
				CONTRACT NO. 76F79

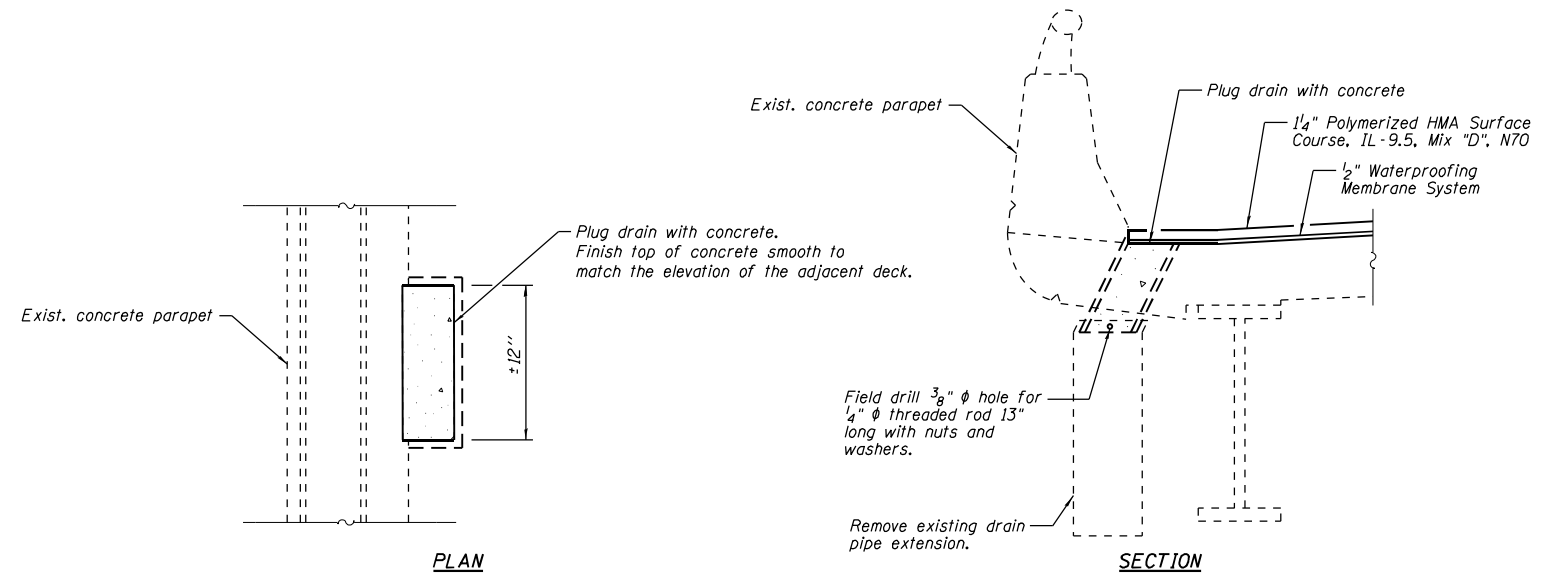
ILLINOIS FED. AID PROJECT NHP-KC90176B

**TOTAL BILL OF MATERIAL**

ITEMS	UNITS	TOTAL
Stone Riprap, Class A3	Sq. Yd.	52
Subbase Granular Material, Type C 4"	Sq. Yd.	24
Polymerized Hot-Mix Asphalt Surface Course, IL-9.5, Mix "D", N70	Ton	66
Paved Shoulder Removal	Sq. Yd.	42
Hot-Mix Asphalt Shoulders, 8"	Sq. Yd.	24
Concrete Removal	Cu. Yd.	33.4
Protective Shield	Sq. Yd.	984
Structure Excavation	Cu. Yd.	11
Concrete Structures	Cu. Yd.	5.9
Concrete Superstructure	Cu. Yd.	32.7
Protective Coat	Sq. Yd.	313
Furnishing and Erecting Structural Steel	Pound	2,980
Cleaning and Painting Structural Steel, Location 1	L. Sum	1
Reinforcement Bars, Epoxy Coated	Pound	5,250
Bar Splicers	Each	40
Preformed Joint Strip Seal	Foot	122
Elastomeric Bearing Assembly, Type I	Each	18
Anchor Bolts, 1"	Each	36
Waterproofing Membrane System	Sq. Yd.	938
Granular Backfill for Structures	Cu. Yd.	6
Concrete Sealer	Sq. Ft.	4,411
Jack and Remove Existing Bearings	Each	18
Hot-Mix Asphalt Surface Removal (Deck)	Sq. Yd.	934
Containment and Disposal of Lead Paint Cleaning Residues No. 1	L. Sum	1
Plug Existing Deck Drains	Each	4
Deck Slab Repair (Partial)	Sq. Yd.	510
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	190
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	50
Retrofit Concrete Parapet	Foot	460
Slope Wall Repair	Sq. Yd.	14
Slope Wall Slurry Pumping	Cu. Yd.	29.0
Slope Wall Crack Sealing	Foot	70.0
Concrete Curb (Special)	Foot	30

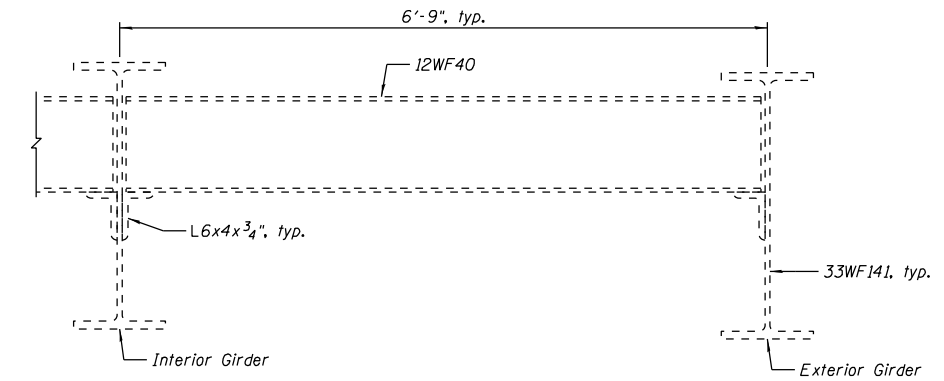
**GENERAL NOTES**

- All new fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts. Bolts 3/4"  $\phi$ , open holes 13/16"  $\phi$ , unless otherwise noted.
- Anchor bolts shall be hot dip galvanized in accordance with Section 1006.09 of the Standard Specifications.
- All structural steel shall be AASHTO M 270 Grade 36, unless otherwise noted.
- No field welding is permitted except as specified in the contract documents.
- Reinforcement bars designated (E) shall be epoxy coated.
- Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
- Protective Coat shall be applied to proposed concrete surfaces and Concrete Sealer shall be applied to existing concrete surfaces at the locations specified in Article 503.19 of the Standard Specifications. Protective Coat and Concrete Sealer shall not be applied to surfaces to which Waterproofing Membrane System is applied. Deck drains shall be temporarily plugged and existing pavement markings shall be temporarily covered prior to the application of Concrete Sealer. The temporary covering material used shall be such that it will not affect the retroreflectivity of the pavement markings when removed.
- The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project according to the Guide Bridge Special Provision "Containment and Disposal of Lead Paint Cleaning Residues".
- A minimum of 2 air monitors will be required to monitor abrasive blasting operations at this site. See Special Provision for "Containment and Disposal of Lead Paint Cleaning Residues".
- SSPC Q1 and SSPC Q2 Certification is required for this Contract.
- Existing structural steel, which will be in contact with the proposed replacement bearings, shall be cleaned and painted as required by the Guide Bridge Special Provision for "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".
- Cleaning and painting of the existing structural steel shall be specified in the Special Provision for "Cleaning and Painting Existing Steel Structures". All beams, bearings and other structural steel within 12 ft. (measured along the beam) of either side of the deck joints shall be cleaned per Near White Blast Cleaning (SSPC-SPI0). The exterior surfaces and bottom of the bottom flange of the fascia beams shall be cleaned per Commercial Grade Power Tool Cleaning (SSPC-SPI5). The designated areas cleaned per Near White Blast Cleaning (SSPC-SPI0) and per Commercial Grade Power Tool Cleaning (SSPC-SPI5) shall be painted according to the requirements of Paint System 1 - OZ/E/U. The color of the final finish coat for all interior steel surfaces shall be Gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Blue, Munsell No. 10B 3/6.
- Joint openings shall be adjusted according to Article 520.04 of the Standard Specifications when the deck is poured at an ambient temperature other than 50° F.
- If the jacking systems and temporary support procedures proposed by the Contractor require temporary stiffeners to prevent web crippling or buckling, the stiffeners shall be steel and bolted to the web. If stiffeners are not required, hardwood timbers shall be installed tightly between the top and bottom flange to prevent flange rotation.
- See the roadway plans for details related to hot-mix asphalt mixture requirements, guardrail items, and traffic control items.



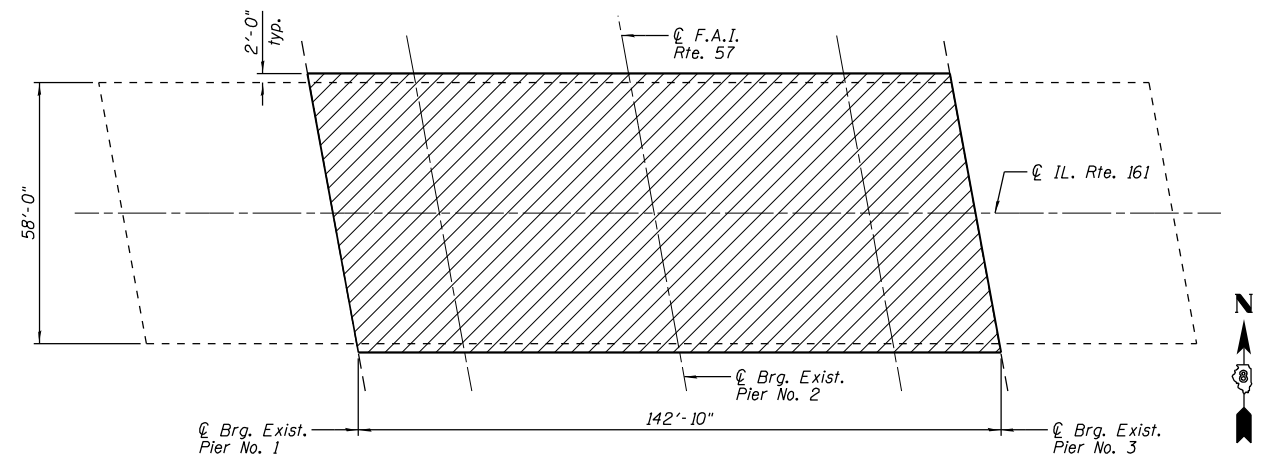
**PLUG EXISTING DECK DRAIN DETAIL**

(See General Plan and Elevation Sheet for locations)



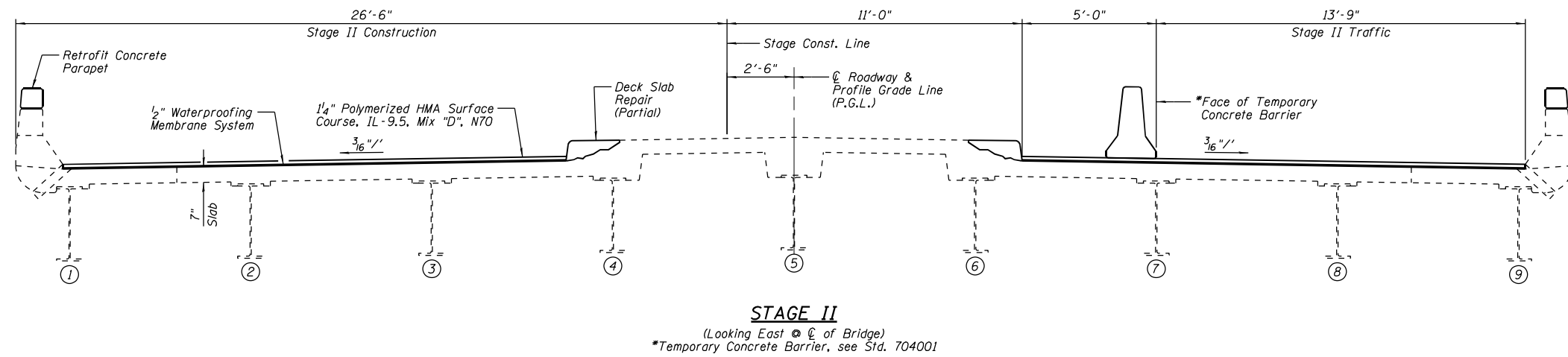
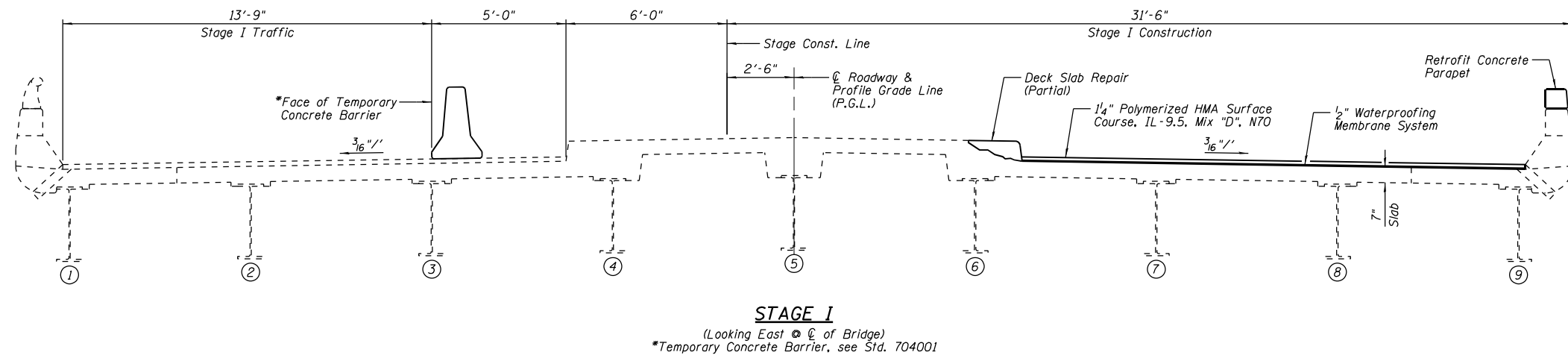
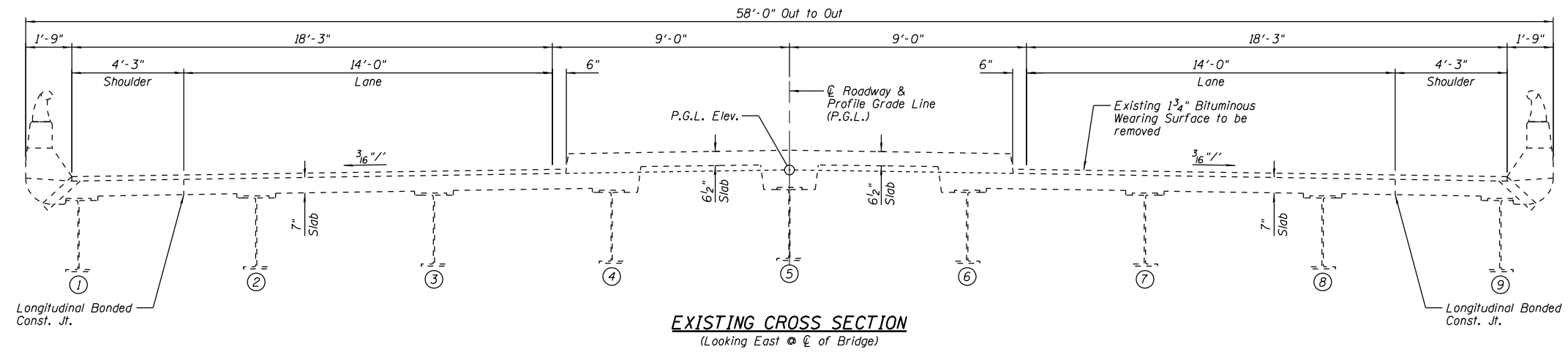
**EXISTING END DIAPHRAGM**

For information only, for Cleaning and Painting Structural Steel.



**PLAN**

(Limits of Protective Shield)  
Protective Shield shall be in place during side fillet removal (see Sheet 5 of 17).



**NOTE:**  
See Roadway Plans for Temporary Concrete Barrier quantity.



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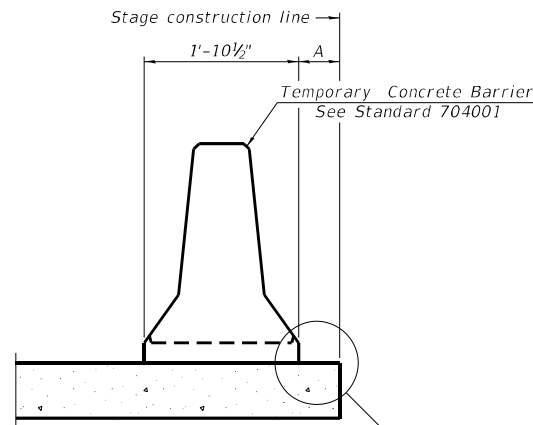
STAGE CONSTRUCTION  
STRUCTURE NO. 061-0017

SHEET NO. 3 OF 17 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	131
CONTRACT NO. 76F79				

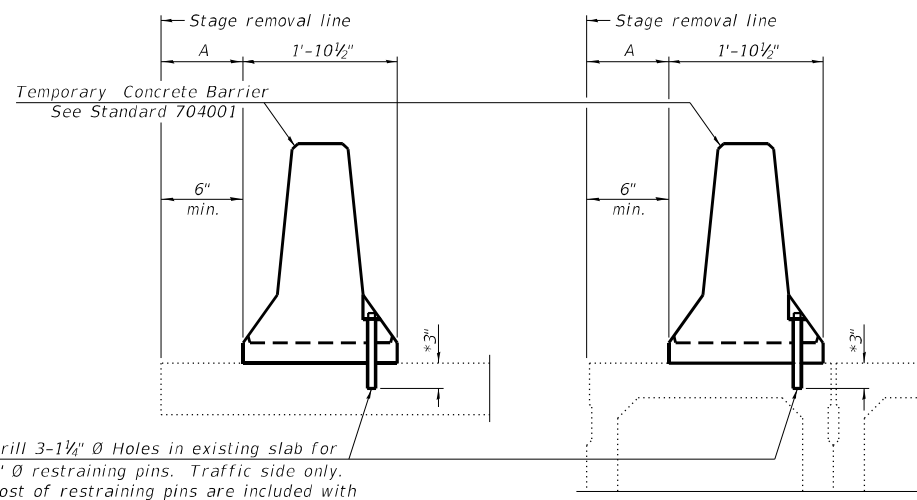
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When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1". See Detail I, II or III

**NEW SLAB OR NEW DECK BEAM**

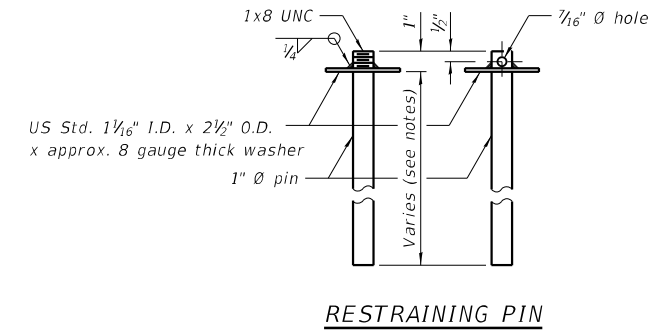


Drill 3-1 1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

**EXISTING SLAB**

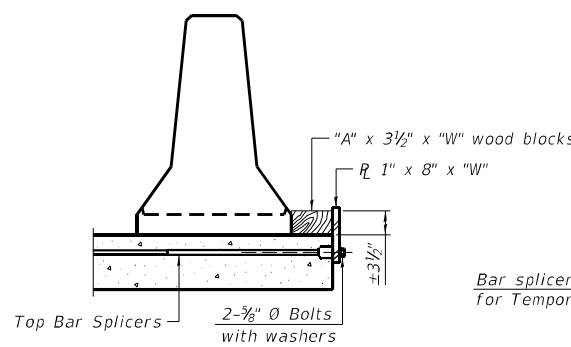
**EXISTING DECK BEAM**

**SECTIONS THRU SLAB OR DECK BEAM**

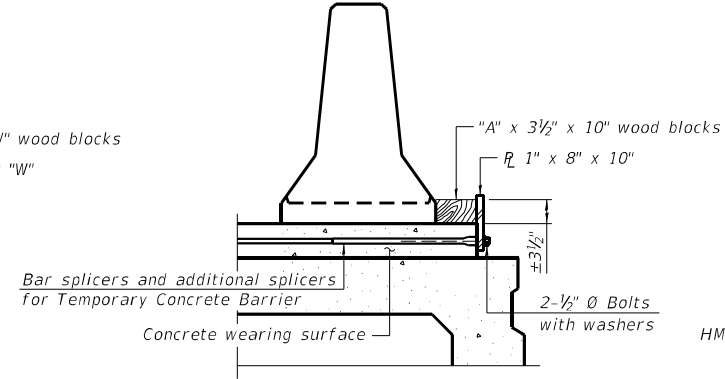


**RESTRAINING PIN**

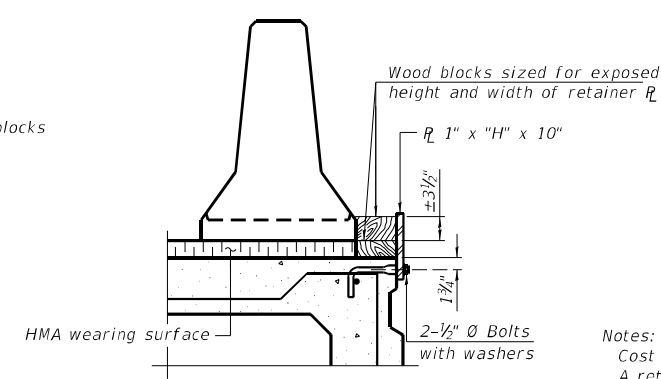
\* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.



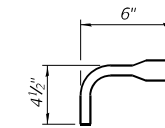
**DETAIL I**



**DETAIL II**



**DETAIL III**



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

Notes:  
 Cost of retainer assembly is included with Temporary Concrete Barrier.  
 A retainer assembly shall be located at the approximate  $\frac{1}{2}$  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.

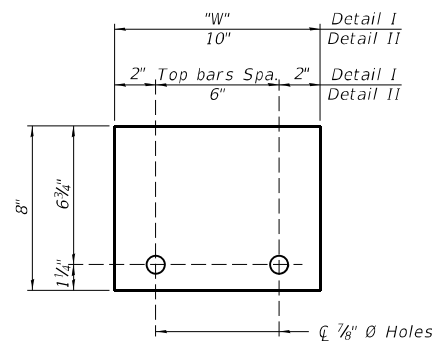
Detail I - Installation for a new bridge deck or bridge slab.

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.

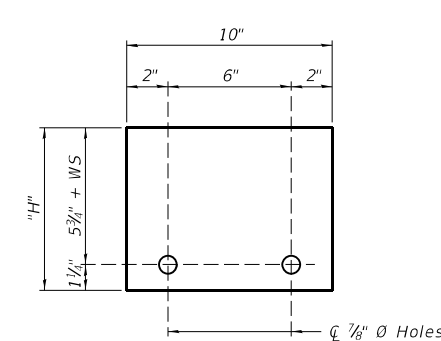
Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate 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.

**RAILING CRITERIA**

NCHRP 350 Test Level	3
Railing Weight (plf)	440



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



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

R-27

10-12-2021



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CHECKED - JML	REVISED

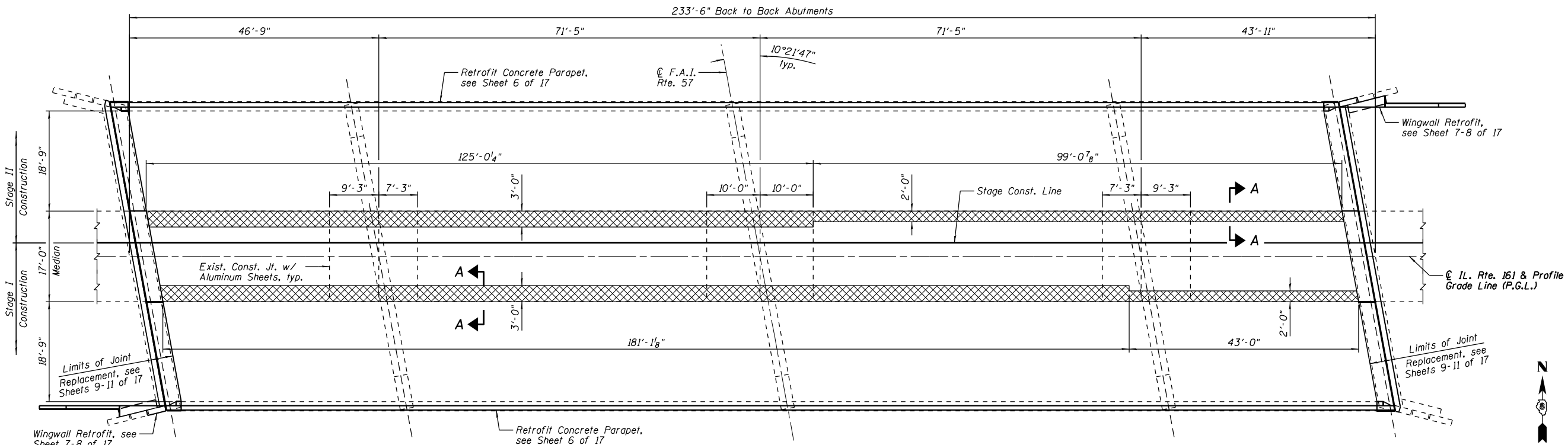
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CONCRETE BARRIER  
STRUCTURE NO. 061-0017**

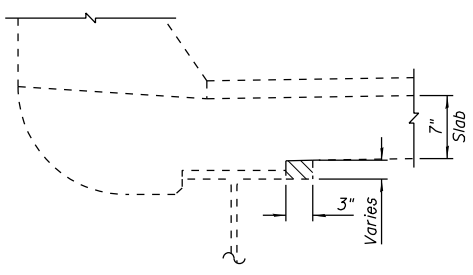
SHEET NO. 4 OF 17 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	132
CONTRACT NO. 76F79				

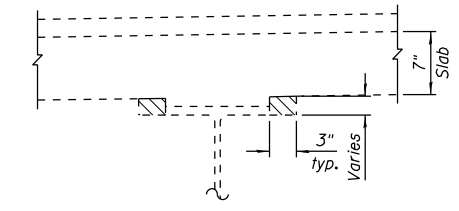
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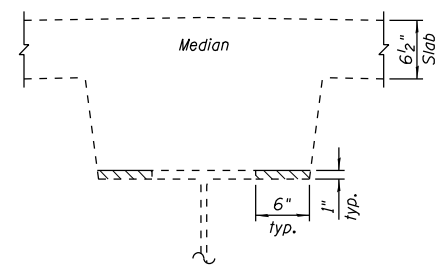
**PLAN**



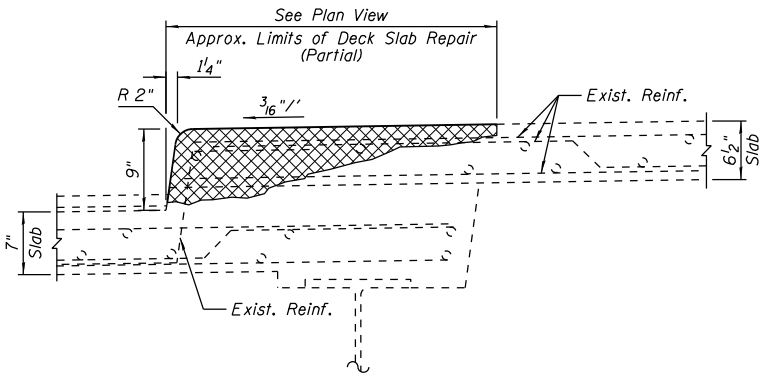
**FASCIA BEAM**



**INTERIOR BEAM**



**BEAM UNDER MEDIAN**



**SECTION A-A**

**SIDE FILLET REMOVAL**

Side fillets shall be removed along the full length of each beam. Protective shield shall be in place prior to beginning removal (see Sheet 2 of 17). Side fillet removal and lateral support plate installation shall not be done over live interstate traffic, but shall be coordinated with interstate lane closures.

**BILL OF MATERIAL**

Item	Unit	Quantity
Concrete Removal	Cu. Yd.	6.7
Protective Coat	Sq. Yd.	171
Concrete Sealer	Sq. Ft.	2,600
Deck Slab Repair (Partial)	Sq. Yd.	510
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	190
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	50

**LEGEND**

- Concrete Removal
- Deck Slab Repair (Partial)

**NOTES:**

- 1.) The repair areas shown are estimated based on a field inspection conducted in February 2020. The actual repair areas required shall be verified according to the Special Provisions.
- 2.) Additional quantities of deck slab repair beyond those identified in the Plan view have been estimated. The actual repair areas required shall be verified according to the Special Provisions.



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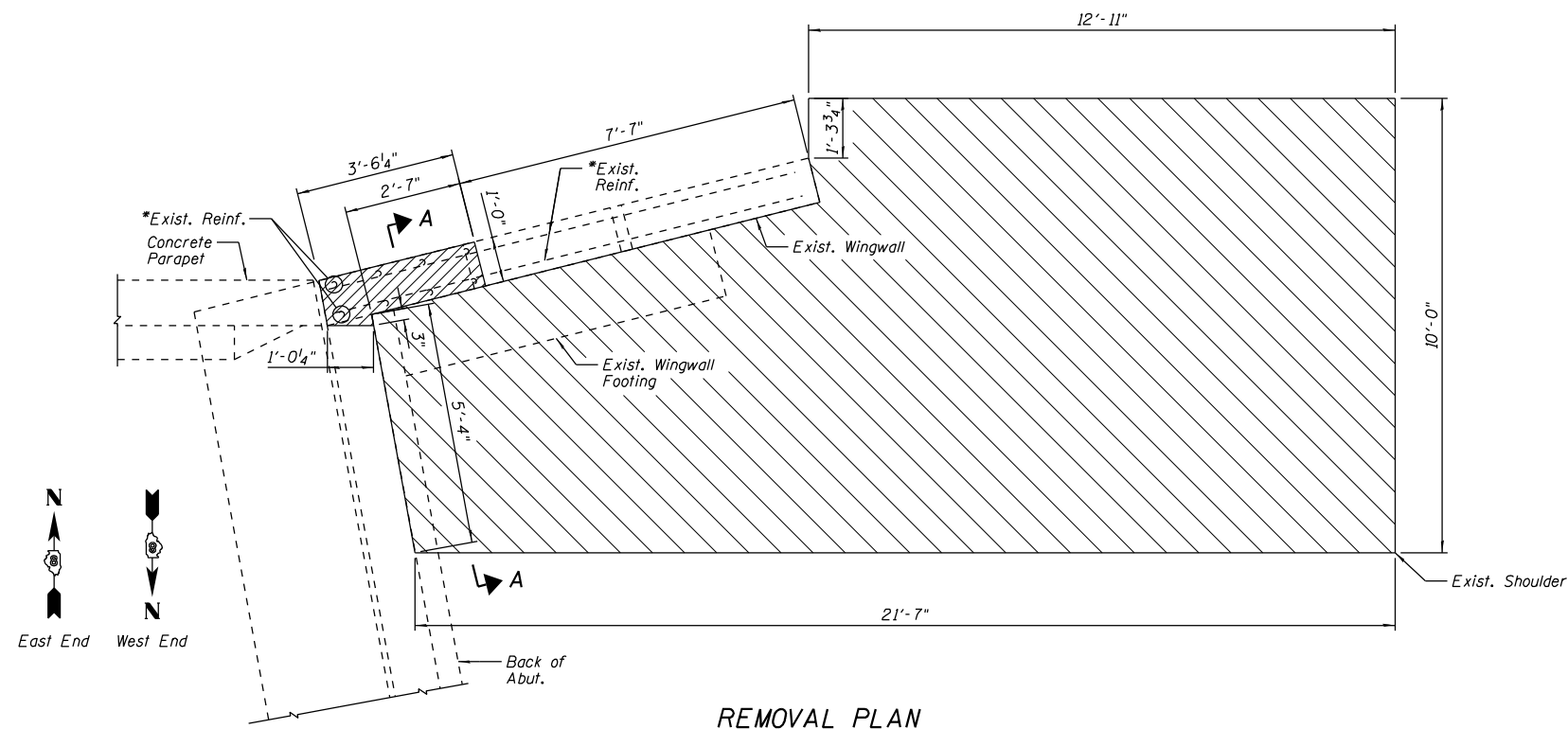
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DECK SLAB REPAIR DETAILS  
STRUCTURE NO. 061-0017**

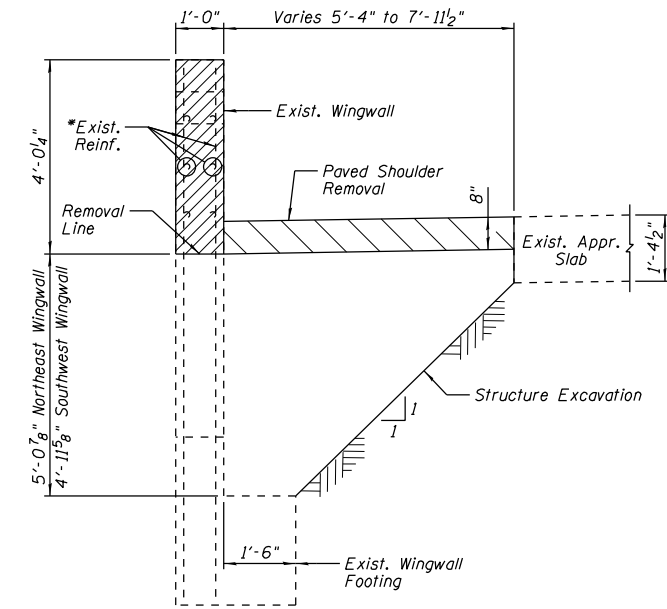
SHEET NO. 5 OF 17 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-11.1-1,1-2,2IRS-1	MARION	484	133
<b>CONTRACT NO. 76F79</b>				
<small>ILLINOIS FED. AID PROJECT NHP-KC90176B</small>				





**REMOVAL PLAN**  
Northeast and Southwest Wingwalls only.



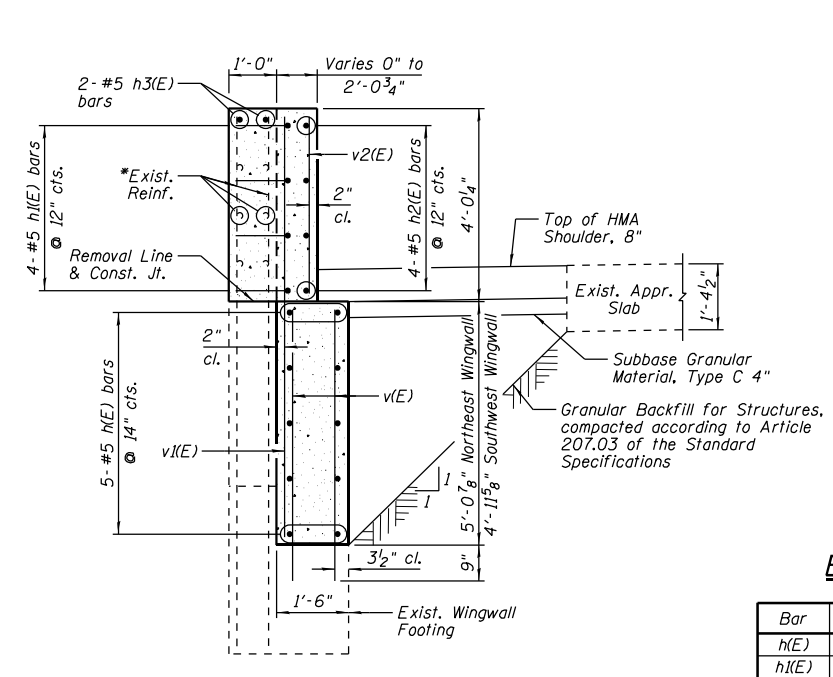
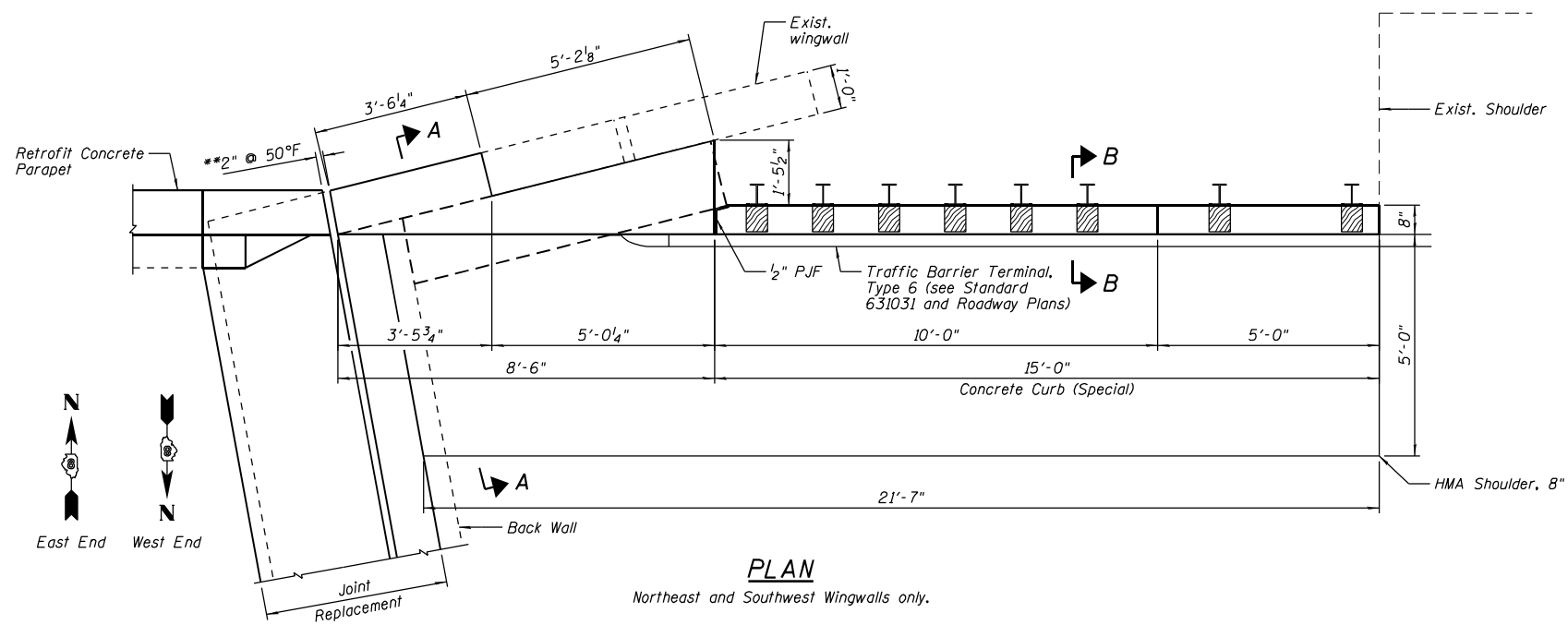
**SECTION A-A**  
(Horiz. dimensions @ Rt. L's)

**LEGEND**

- Concrete Removal
- Paved Shoulder Removal

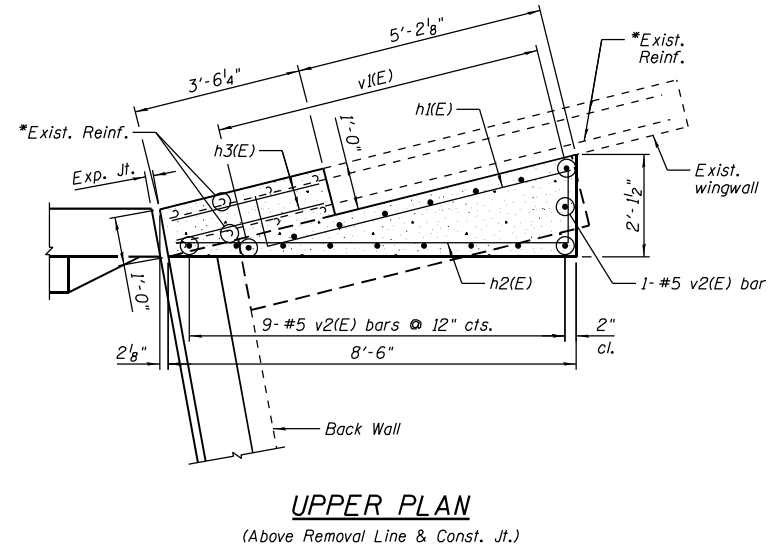
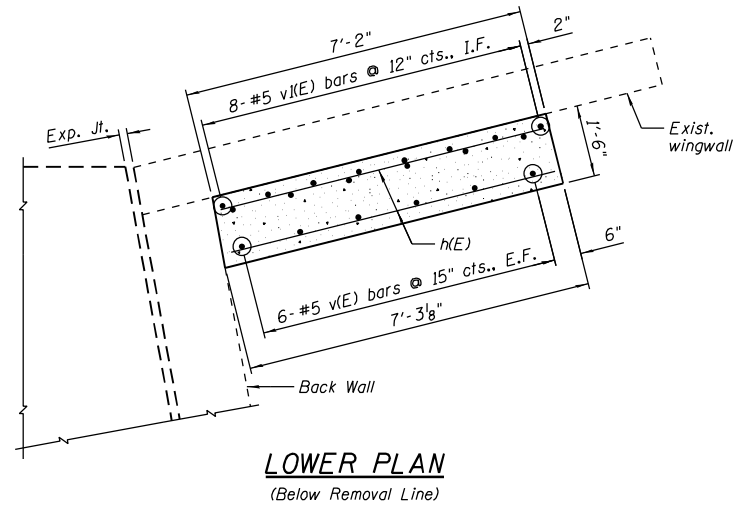
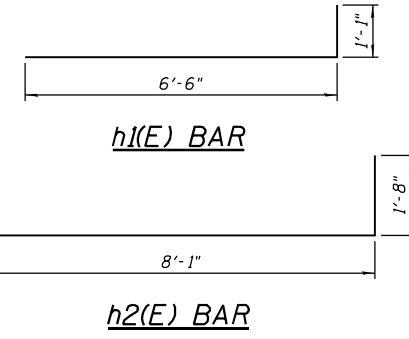
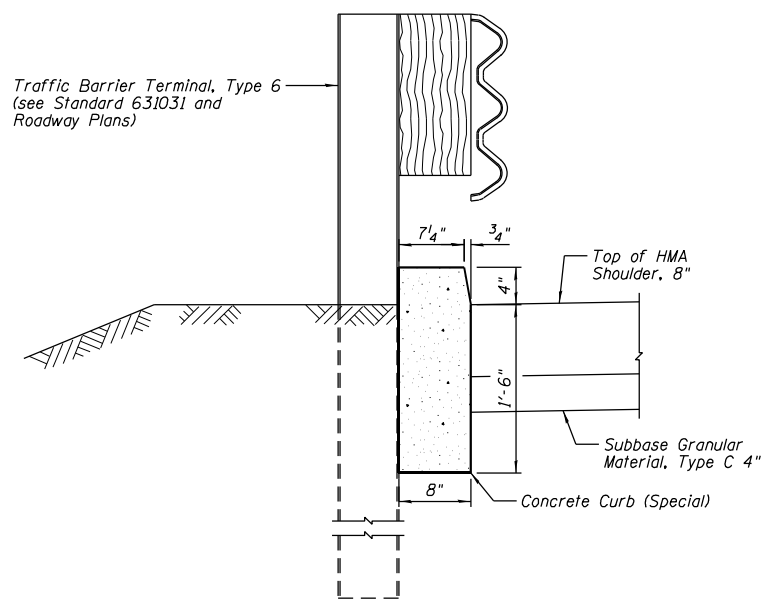
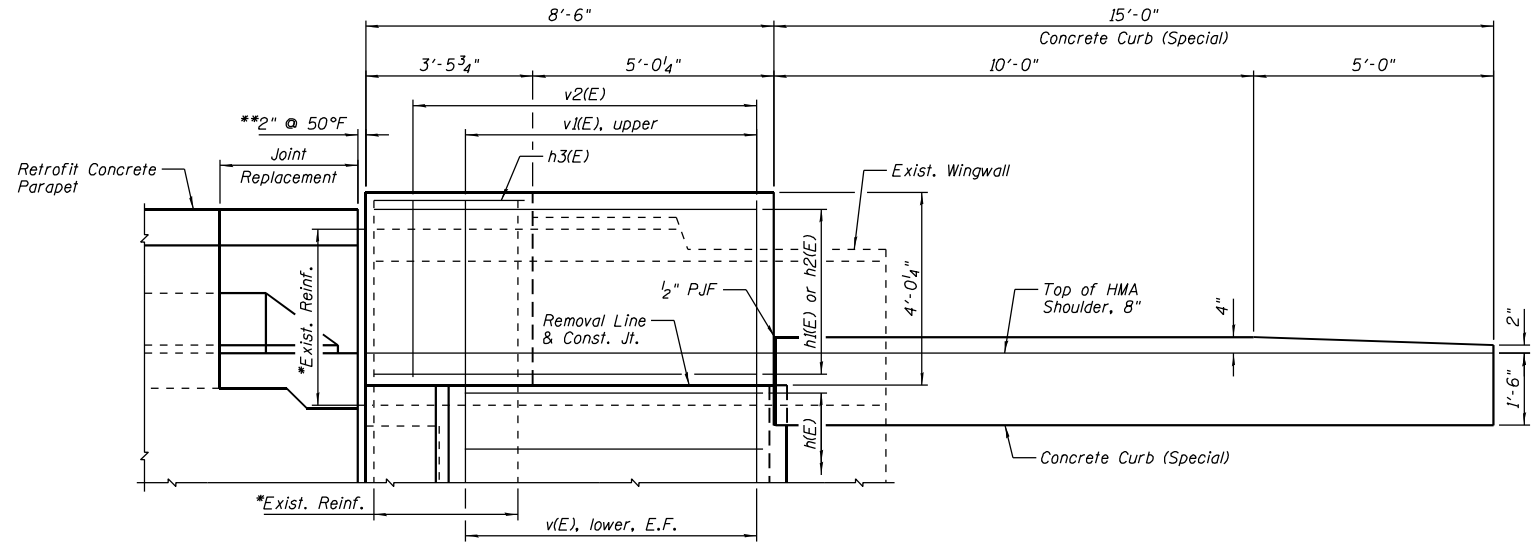
**NOTES:**

- 1.) This Sheet applies to the Northeast and Southwest wingwalls only.
- 2.) \*Existing reinforcement extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost shall be included with Concrete Removal.



**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	20	#5	6'-10"	—
h1(E)	8	#5	7'-7"	—
h2(E)	8	#5	9'-9"	—
h3(E)	4	#5	3'-2"	—
v(E)	24	#5	5'-7"	—
v1(E)	16	#5	8'-7"	—
v2(E)	20	#5	3'-8"	—
Item	Unit	Quantity		
Subbase Granular Material, Type C 4"	Sq. Yd.	24		
Paved Shoulder Removal	Sq. Yd.	42		
Hot-Mix Asphalt Shoulders, 8"	Sq. Yd.	24		
Concrete Removal	Cu. Yd.	1.1		
Structure Excavation	Cu. Yd.	11		
Concrete Superstructure Protective Coat	Sq. Yd.	12		
Reinforcement Bars, Epoxy Coated	Pound	660		
Granular Backfill for Structures	Cu. Yd.	6		
Concrete Sealer	Sq. Ft.	118		
Concrete Curb (Special)	Foot	30		



**NOTES:**

- This Sheet applies to the Northeast and Southwest wingwalls only.
- \*Existing reinforcement extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost shall be included with Concrete Removal.
- \*\*Dimension showing concrete opening. For joint opening, see Sheet 12 of 17.
- Drill & grout #5 v(E) bars 9" min. into existing concrete according to Section 584 of the Standard Specifications.
- E.F. denotes Each Face and I.F. denotes Inside Face.

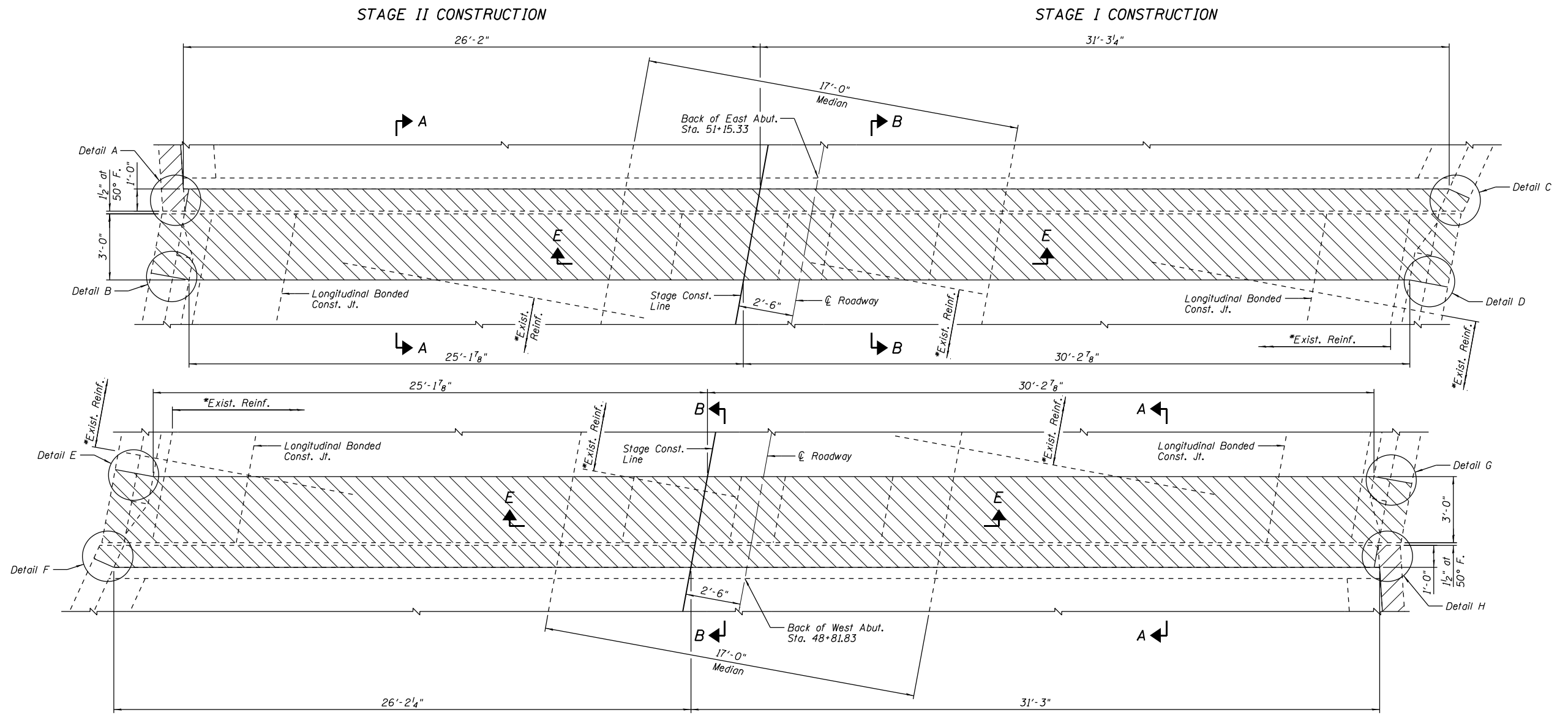


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CHECKED - JML	REVISED
DATE - 01/26/2022	

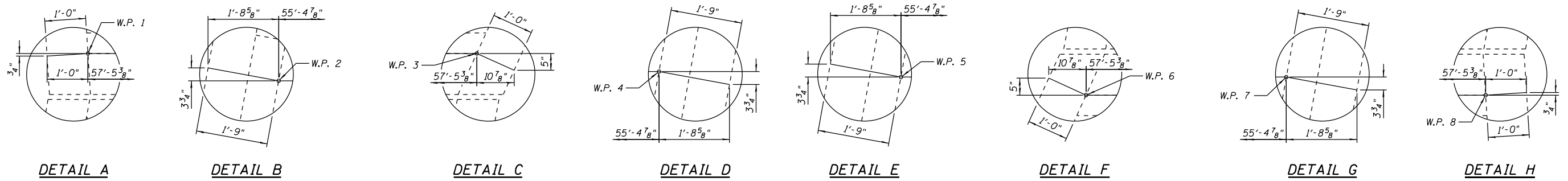
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

WINGWALL RETROFIT DETAILS  
STRUCTURE NO. 061-0017  
SHEET NO. 8 OF 17 SHEETS

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2)RS-1	MARION	484	136
CONTRACT NO. 76F79				
ILLINOIS FED. AID PROJECT NHPP-KC90176B				



PARTIAL PLAN SHOWING CONCRETE REMOVAL



**NOTES:**

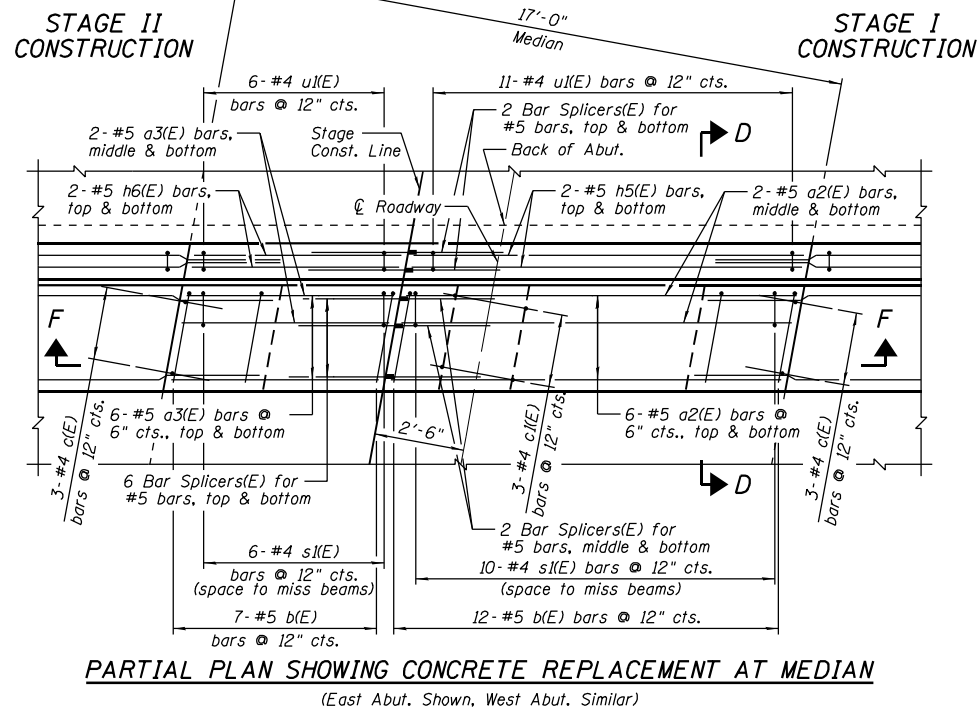
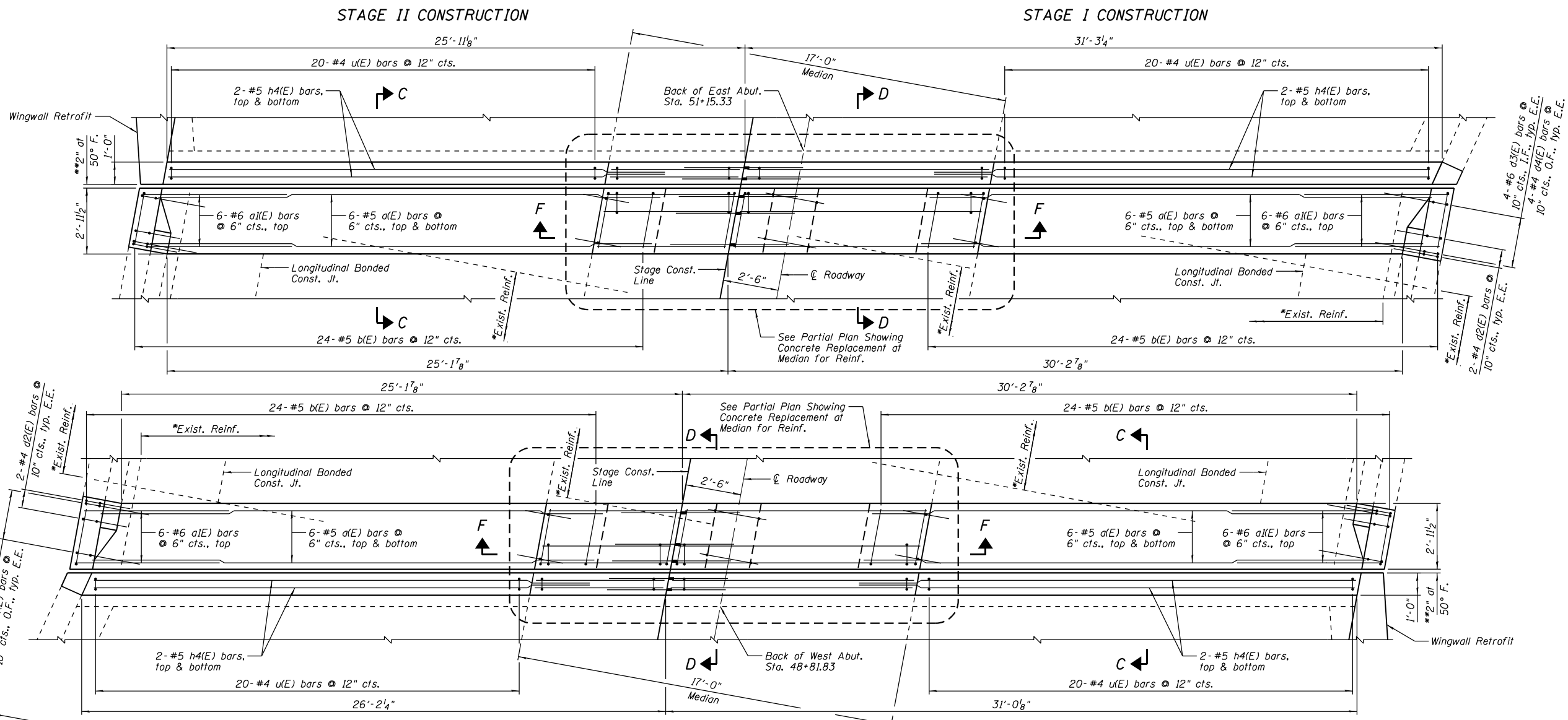
- 1.) \*Existing reinforcement extending into the removal area shall be cleaned, straightened and incorporated into the new construction. For the existing transverse deck and median reinforcement, no less than 4'-6" of each bar shall remain in the new construction, as measured along the bar from the removal line. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost shall be included with Concrete Removal.
- 2.) For Sections A-A, B-B and E-E, see Sheet 11 of 17.
- 3.) Dimensions for Detail A thru Detail H are similar for the concrete replacement.

**LEGEND**

- Concrete Removal for Joint Replacement
- Concrete Removal for Wingwall Retrofit, see Sheets 7-8 of 17

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CHECKED - JML	REVISED
DATE - 01/26/2022	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	137
CONTRACT NO. 76F79				



PARTIAL PLAN SHOWING CONCRETE REPLACEMENT



- NOTES:**
- 1.) \*Existing reinforcement extending into the removal area shall be cleaned, straightened and incorporated into the new construction. For the existing transverse deck and median reinforcement, no less than 4'-6" of each bar shall remain in the new construction, as measured along the bar from the removal line. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost shall be included with Concrete Removal.
  - 2.) \*\*Dimension showing concrete opening. For joint opening, see Sheet 12 of 17.
  - 3.) For Sections C-C, D-D and F-F, see Sheet 11 of 17.
  - 4.) E.E. denotes Each End, I.F. denotes Inside Face and O.F. denotes Outside Face.



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DRAWN - DJM	REVISED
CHECKED - JML	REVISED
DATE - 01/26/2022	

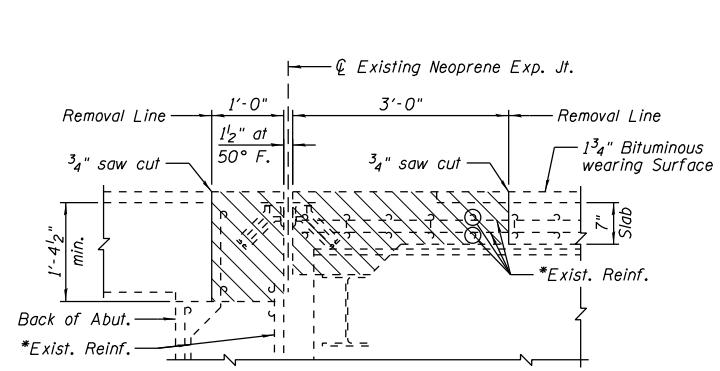
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

JOINT REPLACEMENT DETAILS  
STRUCTURE NO. 061-0017

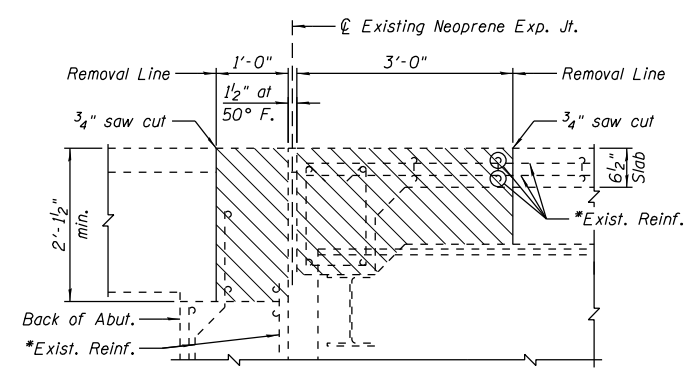
SHEET NO. 10 OF 17 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-11.1-1,1-2,2RS-1	MARION	484	138
CONTRACT NO. 76F79				

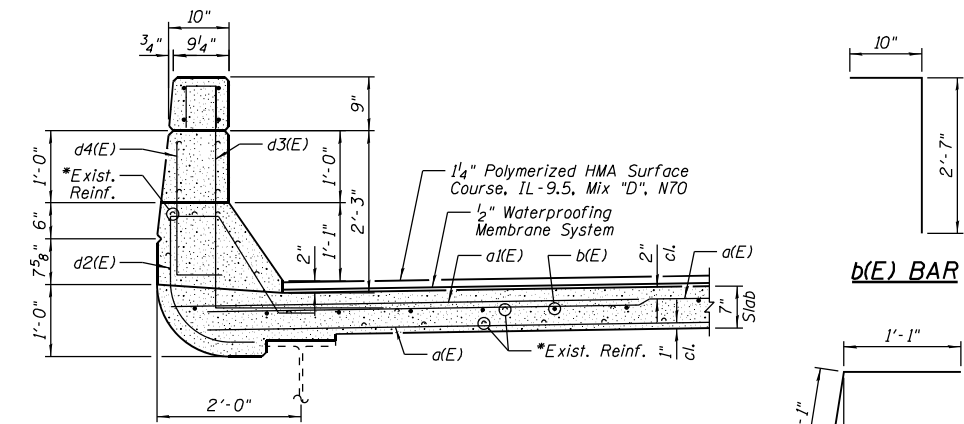
ILLINOIS FED. AID PROJECT NHPP-KC90176B



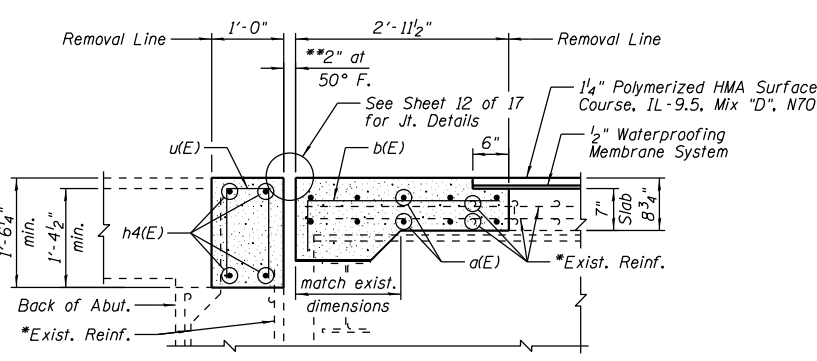
**SECTION A-A**  
(Horizontal dimensions @ Rt. L's)



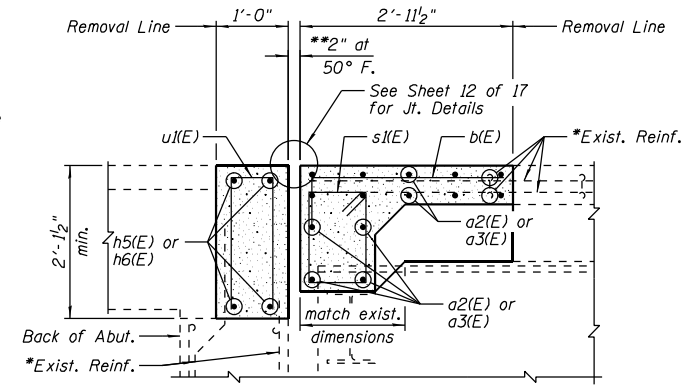
**SECTION B-B**  
(Horizontal dimensions @ Rt. L's)



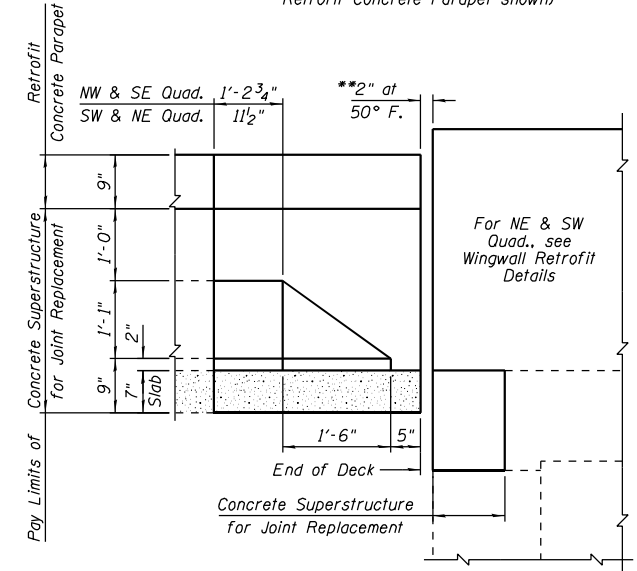
**SECTION THRU PARAPET**  
(Cast-in-Place Alternate for Retrofit Concrete Parapet shown)



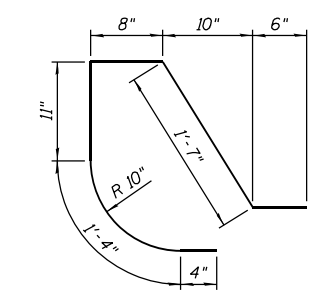
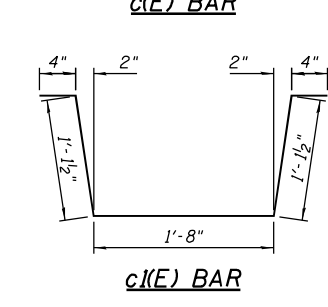
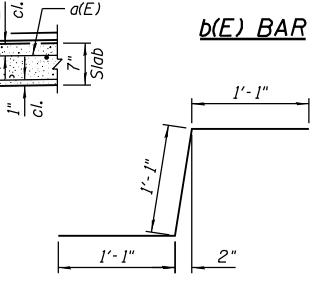
**SECTION C-C**  
(Horizontal dimensions @ Rt. L's)



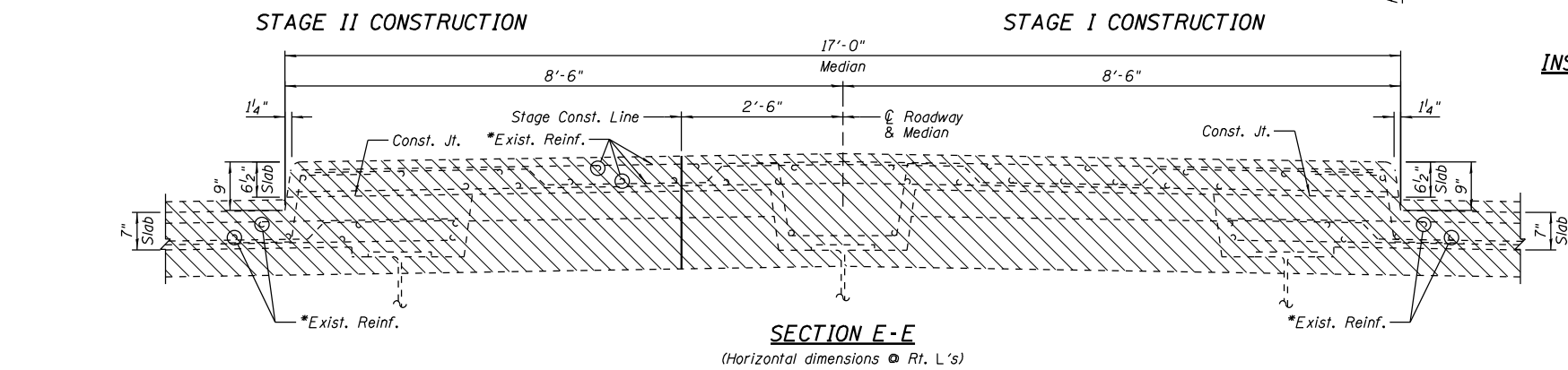
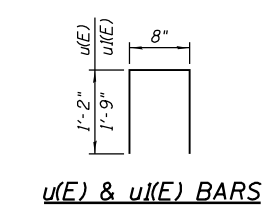
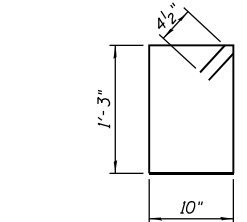
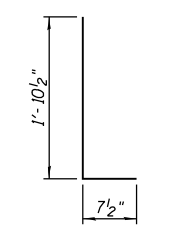
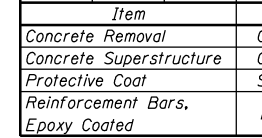
**SECTION D-D**  
(Horizontal dimensions @ Rt. L's)



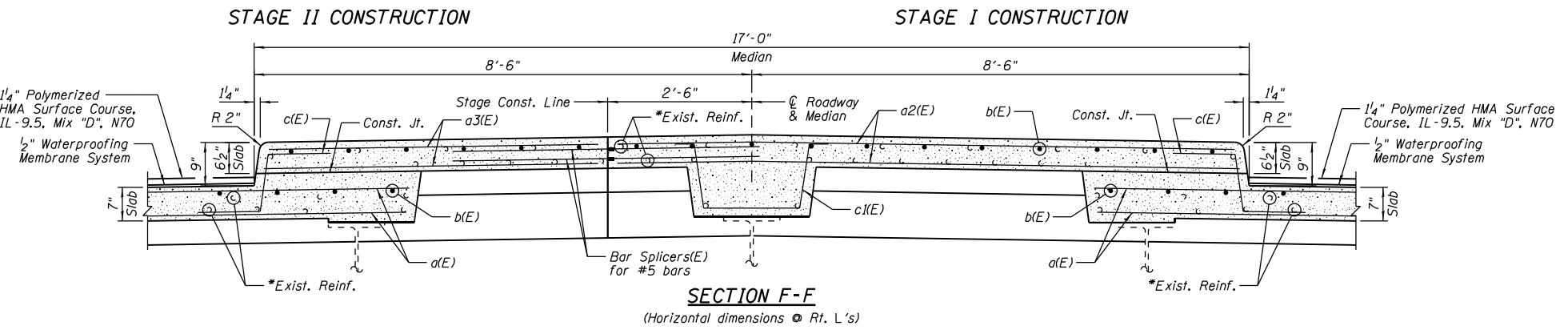
**INSIDE FACE PARAPET ELEVATION**  
(Horizontal dimensions measured along inside face of parapet. Joint dimension measured perpendicular to abutment.)



Bar	No.	Size	Length	Shape
a(E)	48	#5	22'-9"	
a1(E)	24	#6	7'-6"	
a2(E)	32	#5	10'-9"	
a3(E)	32	#5	5'-7"	
b(E)	134	#5	3'-5"	
c(E)	12	#4	3'-3"	
c1(E)	6	#4	4'-7"	
d2(E)	8	#4	5'-4"	
d3(E)	16	#6	5'-2"	
d4(E)	16	#4	2'-6"	
h4(E)	16	#5	23'-4"	
h5(E)	8	#5	10'-9"	
h6(E)	8	#5	5'-8"	
s(E)	32	#4	4'-11"	
u(E)	80	#4	3'-0"	
u1(E)	34	#4	4'-2"	
Item	Unit	Quantity		
Concrete Removal	Cu. Yd.	25.6		
Concrete Superstructure	Cu. Yd.	24.9		
Protective Coat	Sq. Yd.	49		
Reinforcement Bars, Epoxy Coated	Pound	3,540		



**SECTION E-E**  
(Horizontal dimensions @ Rt. L's)



**SECTION F-F**  
(Horizontal dimensions @ Rt. L's)

**LEGEND**  
 Concrete Removal

- NOTES:**
- \*Existing reinforcement extending into the removal area shall be cleaned, straightened and incorporated into the new construction. For the existing transverse deck and median reinforcement, no less than 4'-6" of each bar shall remain in the new construction, as measured along the bar from the removal line. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost shall be included with Concrete Removal.
  - \*\*Dimension showing concrete opening. For joint opening, see Sheet 12 of 17.
  - For location of Sections A-A, B-B and E-E, see Sheet 9 of 17.
  - For location of Sections C-C, D-D and F-F, see Sheet 10 of 17.



Notes:  
 The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed.

The manufacturer's recommended installation methods shall be followed.

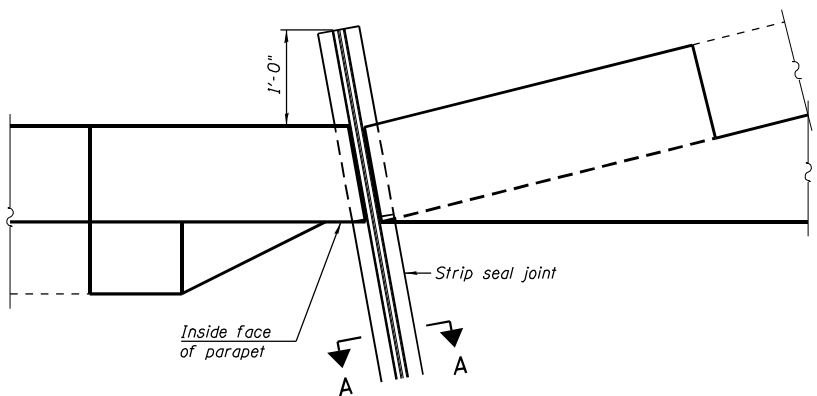
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

The Maximum space between locking edge rail segments shall be 3/16" and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.

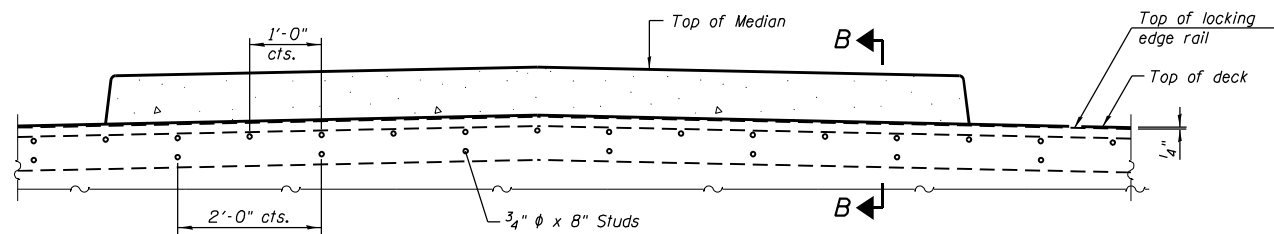
Cost of parapet sliding plates, embedded plates, and anchorage studs included with Preformed Joint Strip Seal.

34" F-shape barrier shown, 42" F-shape similar as noted.

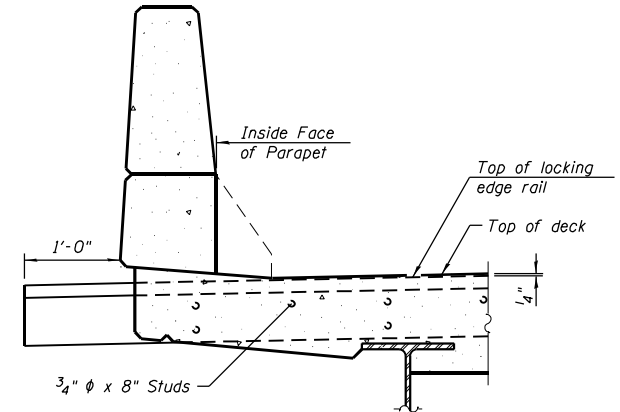
The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.



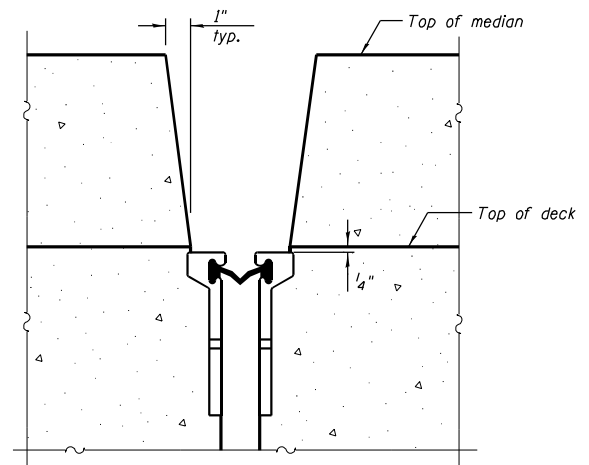
PLAN AT PARAPET



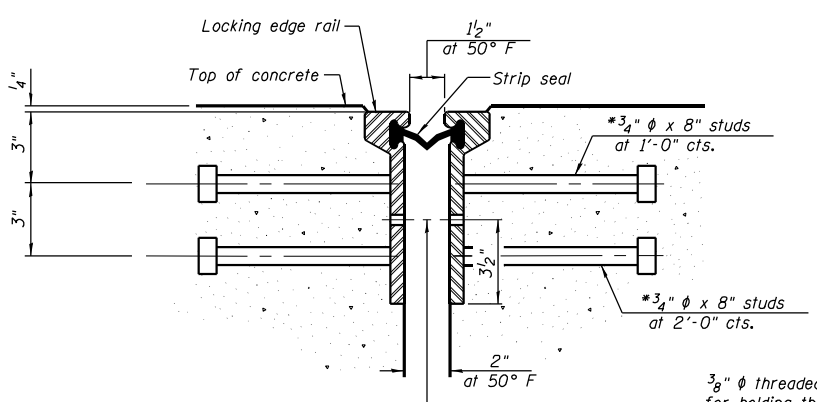
SECTION AT MEDIAN



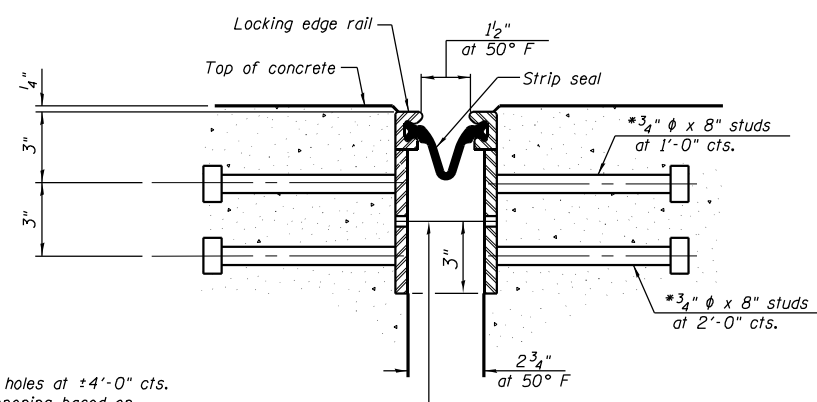
ELEVATION AT PARAPET



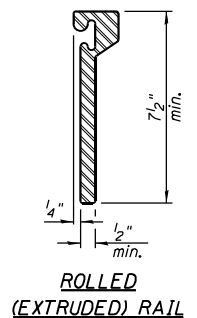
SECTION B-B  
(at Rt. L's)



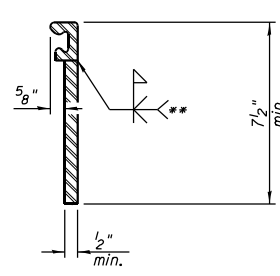
SHOWING ROLLED RAIL JOINT



SHOWING WELDED RAIL JOINT



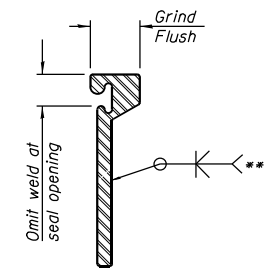
ROLLED (EXTRUDED) RAIL



WELDED RAIL

LOCKING EDGE RAILS

\*\* Back gouge not required if complete joint penetration is verified by mock-up.



LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

SECTION A-A

\* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Preformed Joint Strip Seal	Foot	122

EJ-SS (TALL WITHOUT GUTTER)



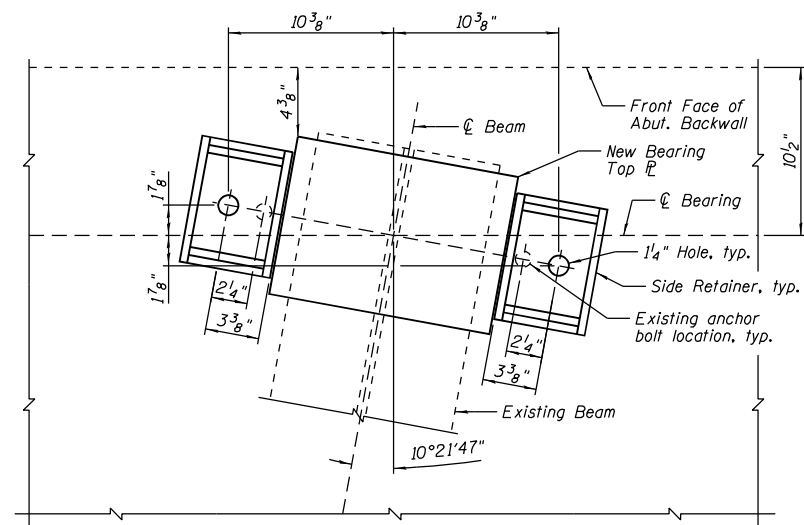
DESIGNED - MSJ	REVISED
CHECKED - JCZ	REVISED
DRAWN - DJM	REVISED
CHECKED - JML	REVISED
DATE - 01/26/2022	

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

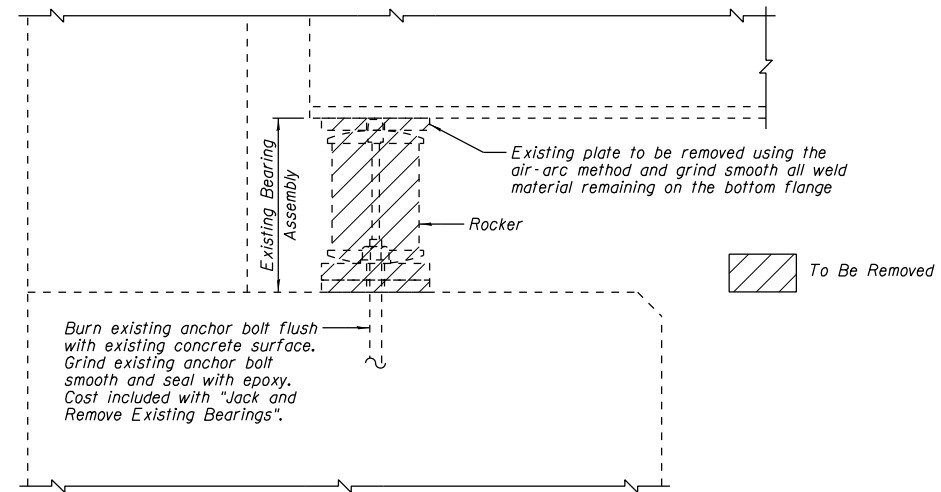
PREFORMED JOINT STRIP SEAL  
 STRUCTURE NO. 061-0017

SHEET NO. 12 OF 17 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 76F79				
ILLINOIS FED. AID PROJECT NHP-KC901769				

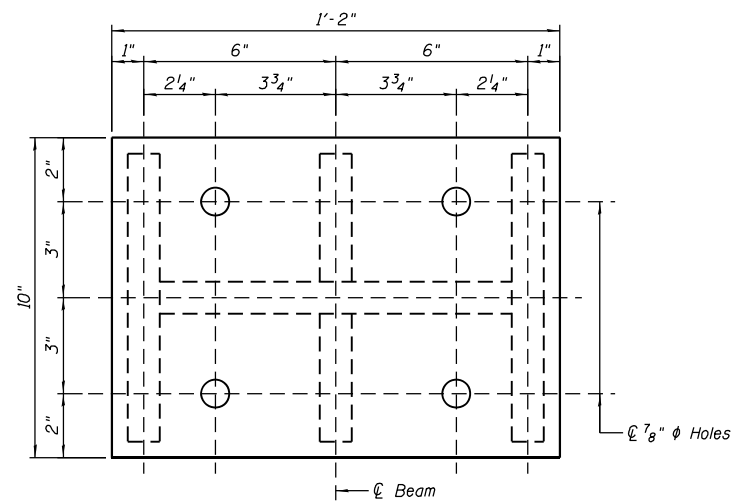


**TYPICAL ANCHOR BOLT PLACEMENT DETAIL**

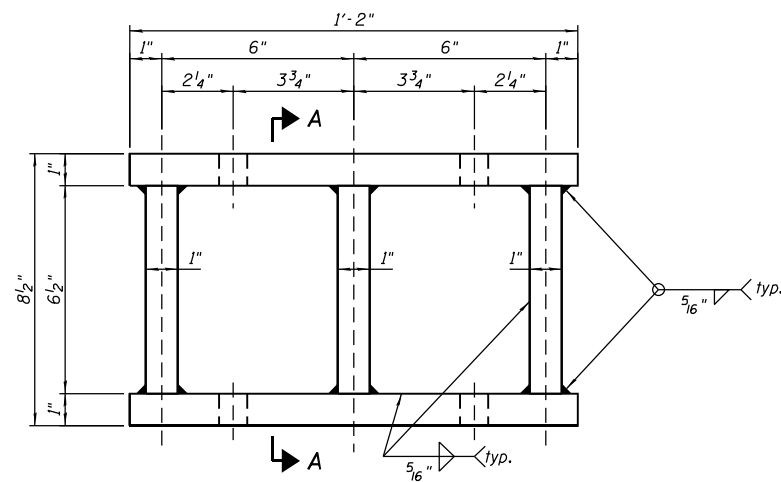


**EXISTING BEARING REMOVAL DETAIL**

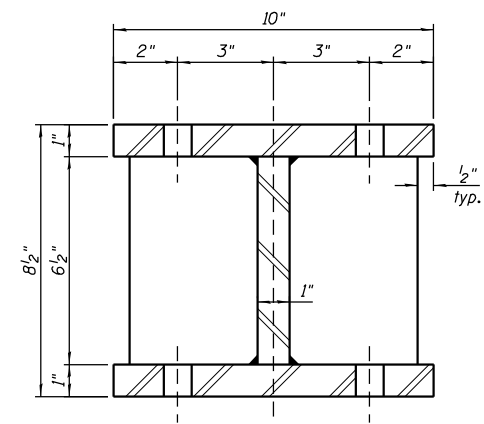
Interior Beam Reaction Table		
	West Abut.	East Abut.
R <sub>D</sub> (k)	17.9	15.7
R <sub>L</sub> (k)	41.2	40.5
Imp. (k)	12.2	12.1
R total (k)	71.3	68.3



**PLAN STEEL EXTENSION**



**ELEVATION STEEL EXTENSION**



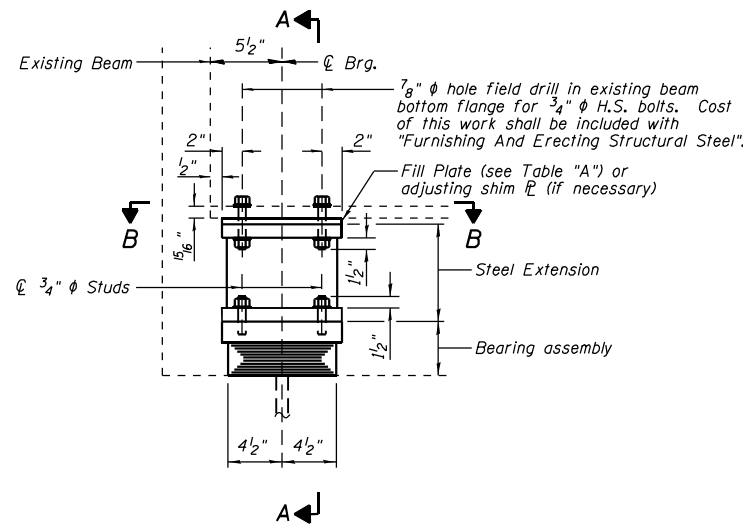
**SECTION A-A**

**BILL OF MATERIAL**

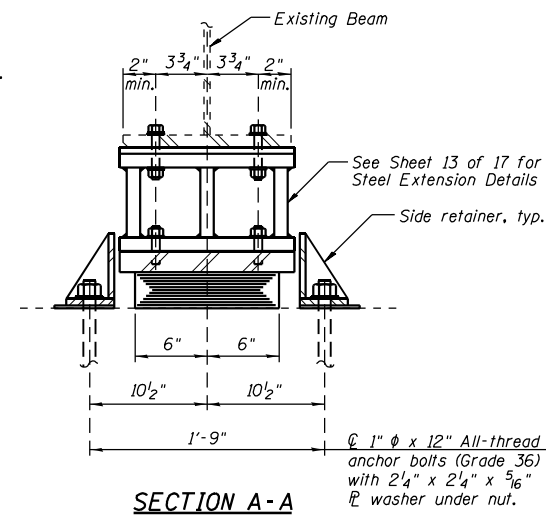
ITEM	UNIT	TOTAL
Furnishing and Erecting Structural Steel	Pound	2,700
Jack And Remove Existing Bearings	Each	18

**NOTES:**

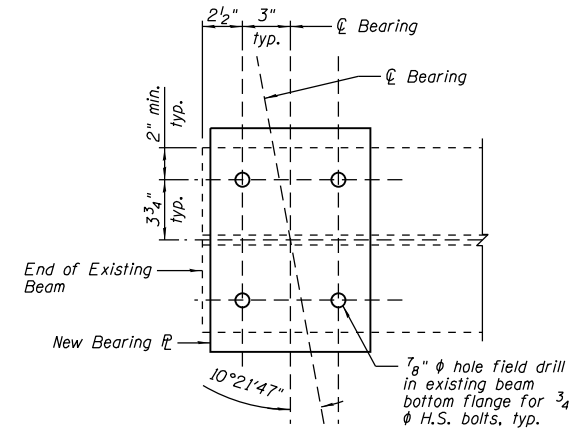
- 1.) Prior to ordering any material, the Contractor shall verify in the field all bearing heights and shim thickness dimensions for each bearing. Adjustment must account for deck heave due to pack rust (if present).
- 2.) All existing bearings at each abutment shall be removed and replaced with Elastomeric Bearing Assembly, Type I. Bearing replacement shall be completed after removal of existing concrete at the expansion joint but prior to construction of the new expansion joint.
- 3.) Minimum jack capacity per beam at each Abutment = 20 tons.
- 4.) The Contractor shall submit, for approval by the Engineer, plans for jacking existing beams and removing the existing bearings prior to commencing any related work. See Special Provisions.



ELEVATION AT ABUT.



SECTION A-A

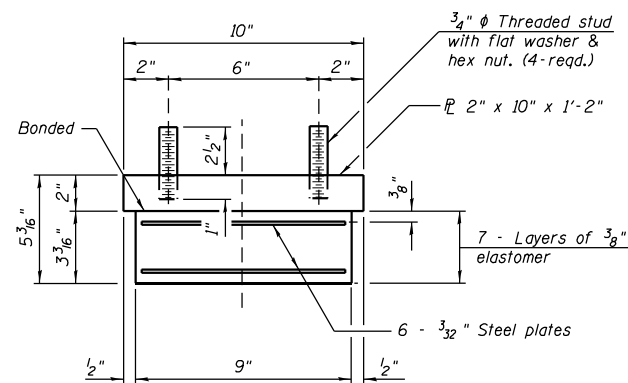


PLAN VIEW B-B

TABLE "A"

Fill Plate Thickness (in.)		
Beam No.	West Abut.	East Abut.
1	3/8"	3/8"
2	1/2"	1/2"
3	5/8"	3/8"
4	1/4"	3/8"
5	1/4"	1/2"
6	1/8"	1/2"
7	1/4"	3/8"
8	1/4"	1/2"
9	3/8"	3/8"

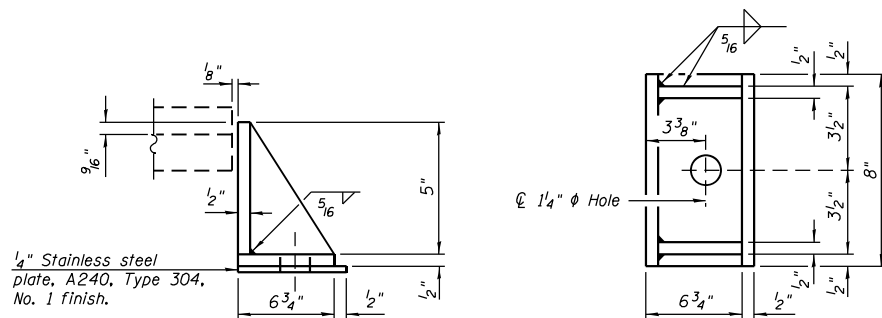
TYPE I ELASTOMERIC EXP. BRG.



BEARING ASSEMBLY

Note:  
Shim plates shall not be placed under bearing assembly.

Notes:  
Side retainers and stainless steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type I.  
Diaphragm removal and reinstallation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.  
Anchor bolts shall be ASTM F1554 all-thread (or an Engineered-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.  
Anchor bolts shall be hot dip galvanized in accordance with Section 1006.09 of the Standard Specifications.  
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.



SIDE RETAINER

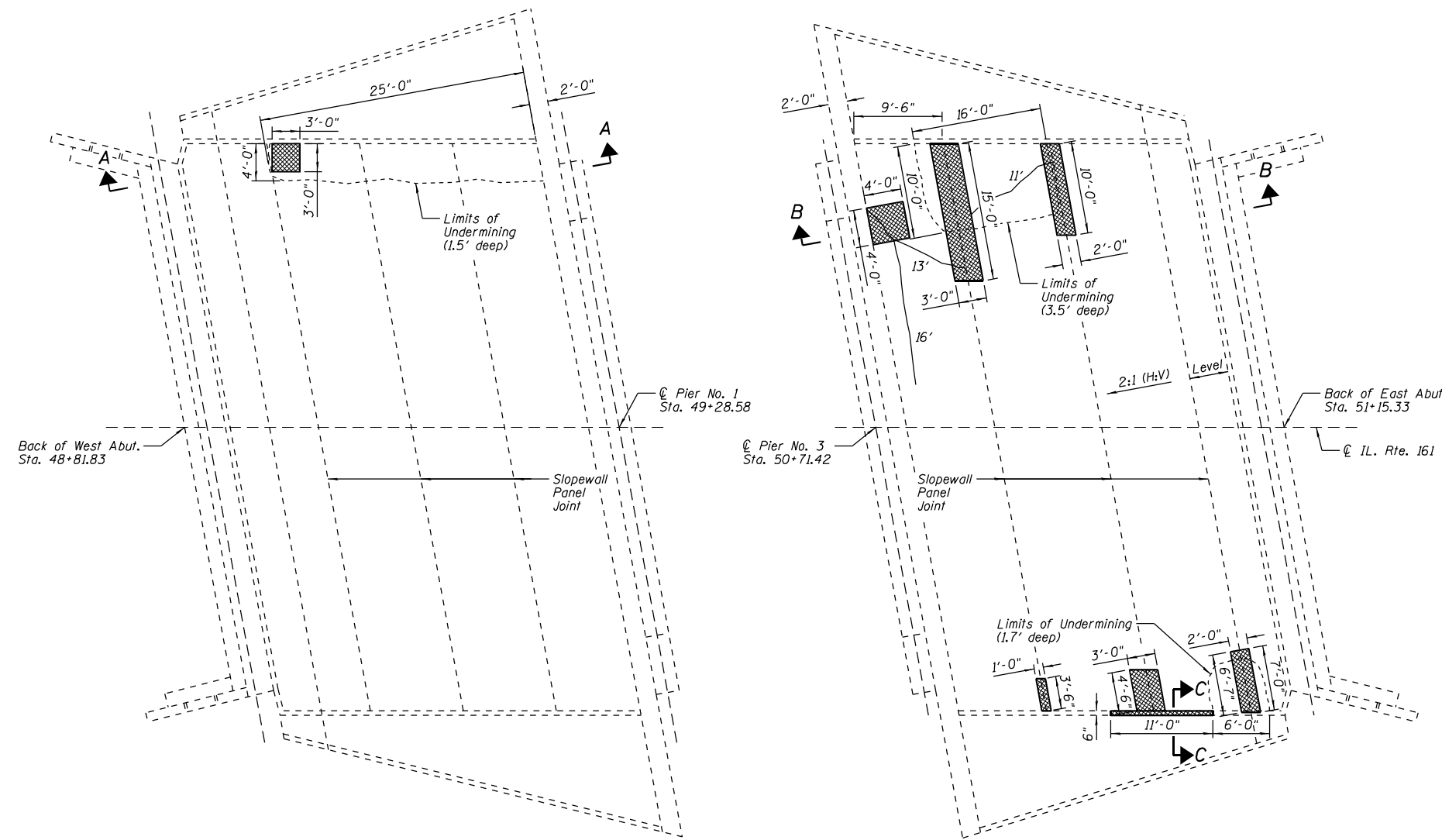
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

BILL OF MATERIAL

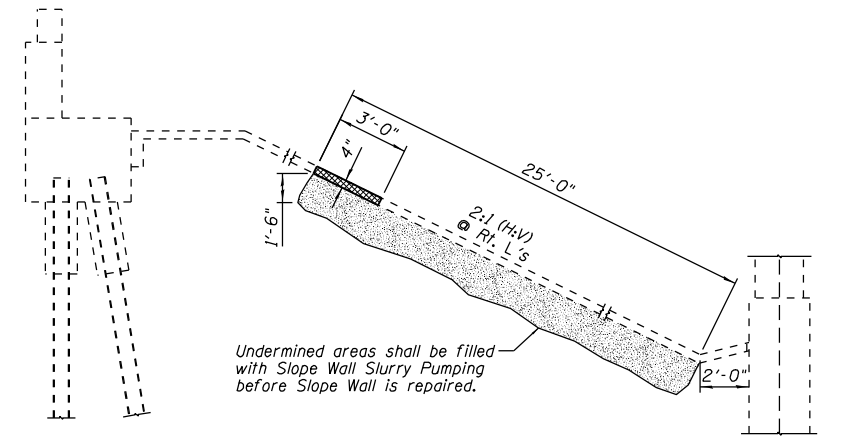
ITEM	UNIT	TOTAL
Furnishing and Erecting Structural Steel	Pound	280
Elastomeric Bearing Assembly, Type I	Each	18
Anchor Bolts, 1"	Each	36

NOTES:

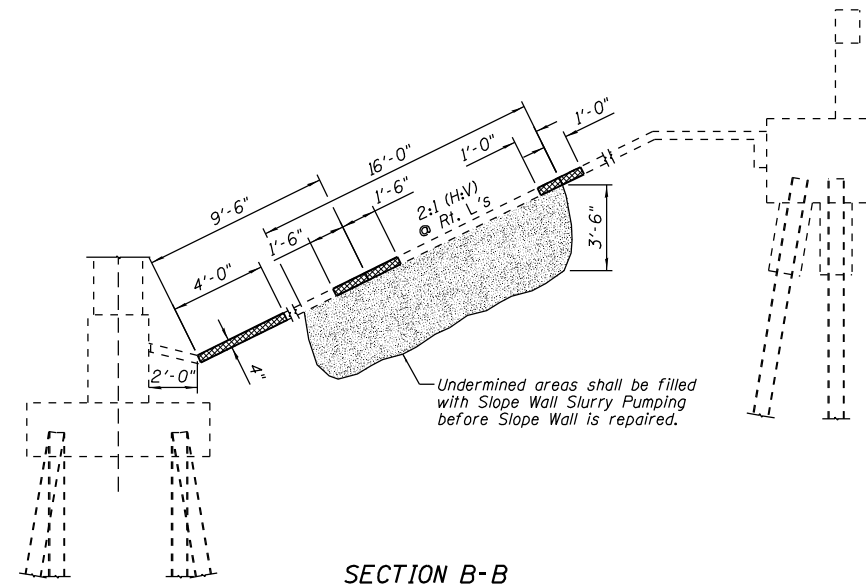
- All existing bearings at each abutment shall be removed and replaced with Elastomeric Bearing Assembly, Type I. Bearing replacement shall be completed after removal of existing concrete at the expansion joint but prior to construction of the new expansion joint.
- Two 1/8 inch adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.
- See Sheet 13 of 17 for details related to Jack and Remove Existing Bearings.
- Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions for each bearing. Adjustment must account for deck heave due to pack rust (if present).
- Steel extensions, shim and connection bolts shall be paid for as "Furnishing and Erecting Structural Steel". For steel extensions, see Bill of Material on Sheet 13 of 17.



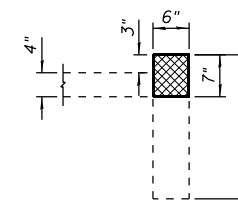
SLOPEWALL PLAN



SECTION A-A



SECTION B-B



SECTION C-C

NOTES:

- 1.) Slope wall shall be reinforced with welded wire fabric, 6" x 6" - W4.0 x W4.0 weighing 58 lbs. per 100 sq. ft.
- 2.) The repair areas shown are estimated based on a field inspection conducted in February 2020. The actual repair areas required shall be verified according to the Special Provisions.
- 3.) An additional quantity of crack sealing beyond that which has been identified in the Plan view has been estimated for the West Slopewall. The actual repair area required shall be verified according to the Special Provisions.

LEGEND

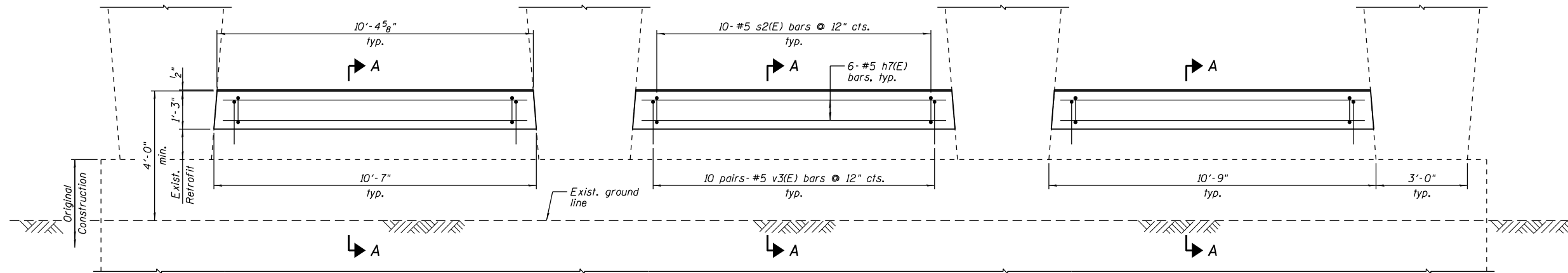
- 11' Slope Wall Crack Sealing
- Slope Wall Repair

BILL OF MATERIAL

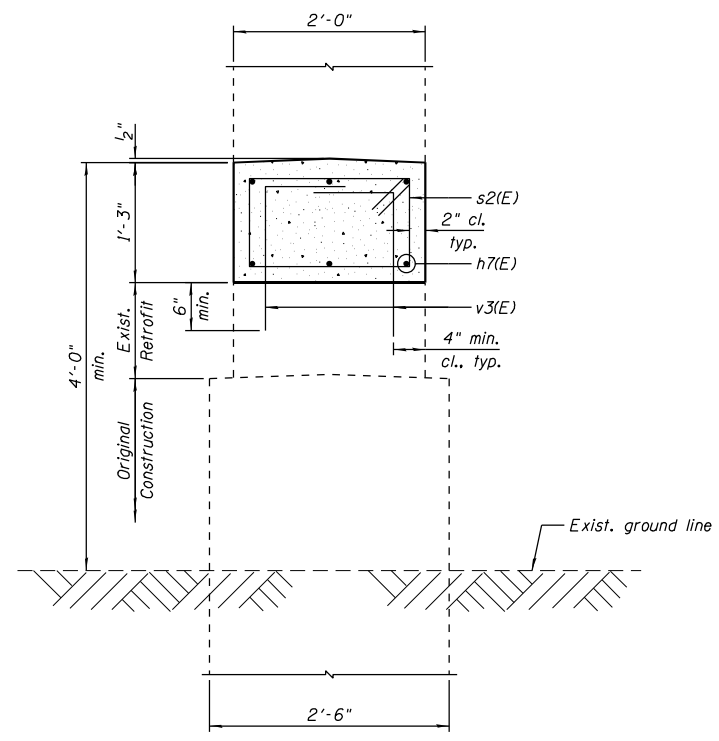
ITEM	UNIT	TOTAL
Slope Wall Repair	Sq. Yd.	14
Slope Wall Slurry Pumping	Cu. Yd.	29.0
Slope Wall Crack Sealing	Foot	70.0

DESIGNED - MSJ	REVISED
CHECKED - JCZ	REVISED
DRAWN - DJM	REVISED
CHECKED - JML	REVISED
DATE - 01/26/2022	

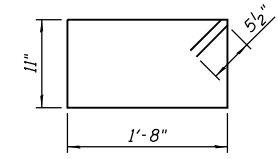
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	143
CONTRACT NO. 76F79				



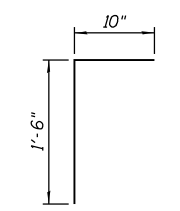
**ELEVATION - PIERS NO. 1 & NO. 3**  
(Looking East)



**SECTION A-A**



**s2(E) BAR**



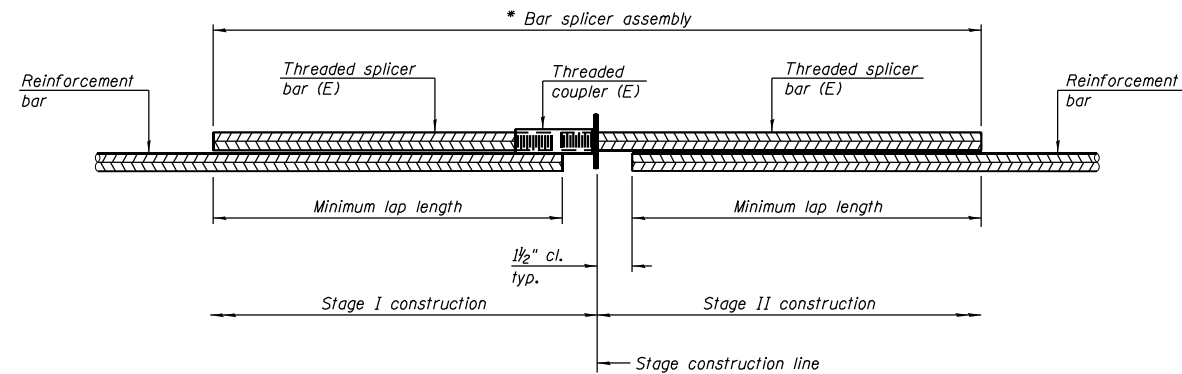
**v3(E) BAR**

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h7(E)	36	#5	10'-0"	—
s2(E)	60	#5	6'-1"	□
v3(E)	120	#5	2'-4"	└
Item	Unit	Quantity		
Concrete Structures	Cu. Yd.	5.9		
Reinforcement Bars, Epoxy Coated	Pound	1,050		
Concrete Sealer	Sq. Ft.	415		

**NOTES:**

- 1.) Drill & grout #5 v3(E) bars 6" min. into existing concrete according to Section 584 of the Standard Specifications.
- 2.) Concrete Sealer shall be applied to the top and side surfaces of the existing and proposed Pier Crash Wall Retrofit.

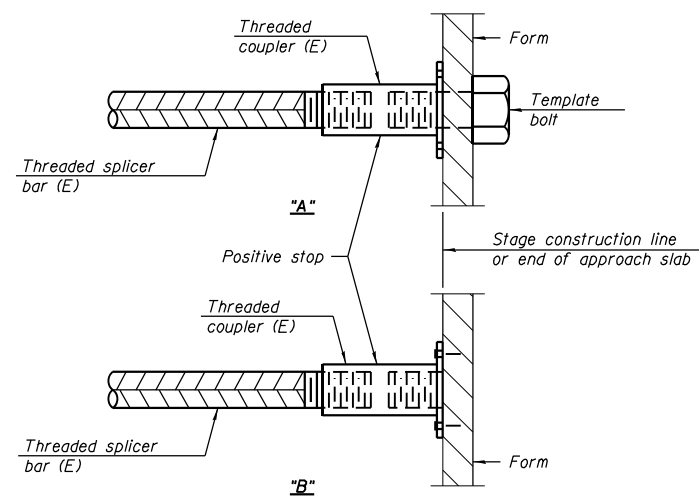


**STANDARD BAR SPLICER ASSEMBLY PLAN**  
 (All components shall be provided from one supplier)

Threaded splicer bar length = min. lap length + 1/2" + thread length

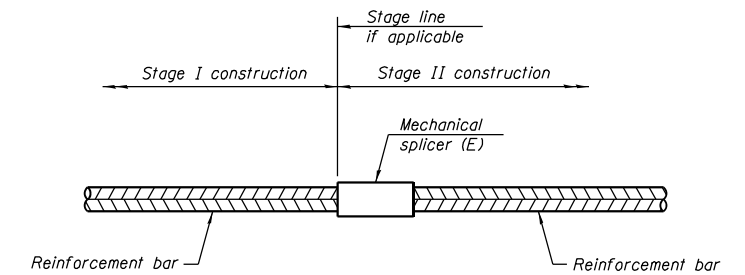
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Joint Replacement	#5	40	3'-6"



**INSTALLATION AND SETTING METHODS**

"A" : Set bar splicer assembly by means of a template bolt.  
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.  
 (E) : Indicates epoxy coating.



**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required

Notes:  
 Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.  
 All reinforcement shall be lapped and tied to the splicer bars.  
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.  
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

1-1-2020

Existing Structure: Structure No. 061-0027 built in 1966 as Section 61-IHB-1. The superstructure consists of a four span precast prestressed concrete girder bridge with a 7" cast-in-place concrete deck. In 2009, a thin oil & chip overlay was added to the deck. Steel railing was mounted on the curbs after original construction. Abutments are pile supported stub abutments with expansion bearings. Piers are hammerhead piers supported by spread footings. The back to back of abutments length is 231'-0" and out to out of deck width is 34'-0". The span lengths are 44'-2", 70'-7", 70'-7", and 40'-8". The structure is on a 1°55'30" left forward skew. One lane of traffic will be maintained utilizing stage construction.

**SCOPE OF WORK**

- 1.) Maintain one lane of traffic utilizing Stage Construction.
- 2.) Retrofit the existing steel railing as indicated in the plans.
- 3.) Construct concrete curb and pavement patching as indicated in the plans.
- 4.) Remove and plug or replace existing deck drains as indicated in the plans.
- 5.) Apply concrete sealer as indicated in the general notes.

**INDEX OF SHEETS**

SHEET NO.	TITLE
1	GENERAL PLAN AND ELEVATION
2	GENERAL DATA
3	STAGE CONSTRUCTION
4	TEMPORARY CONCRETE BARRIER
5	STEEL RAILING RETROFIT DETAILS
6	STEEL RAILING, TYPE 2399

**LOADING HS20-44**

**DESIGN SPECIFICATIONS**

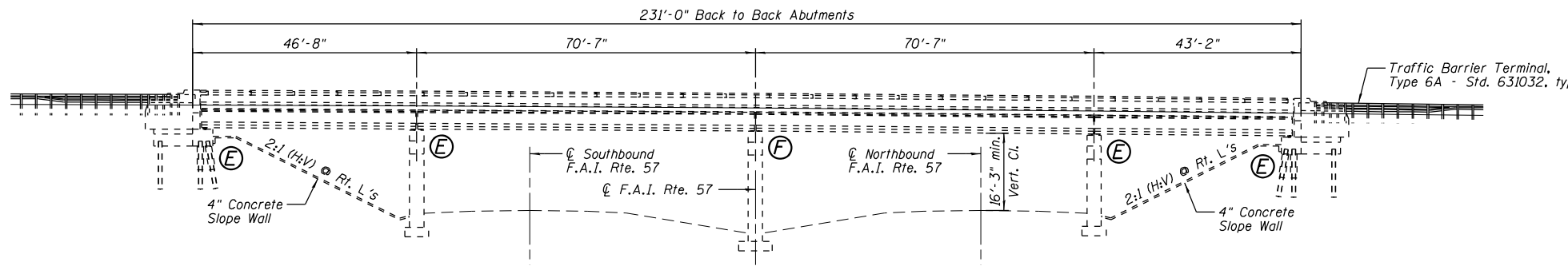
Current Construction  
2002 AASHTO Standard Specifications  
for Highway Bridges, 17th Edition

**DESIGN STRESSES**

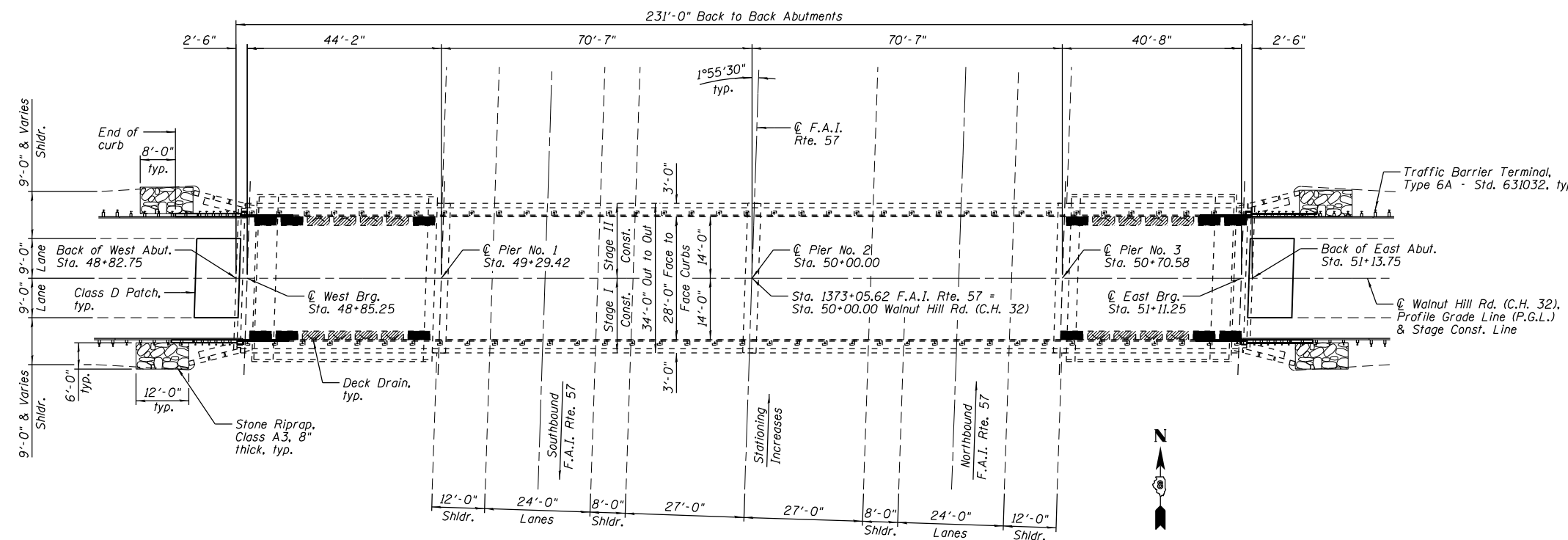
Original Construction  
Field Units  
 $f_c = 1,400$  psi (Superstructure & Substructure)  
 $f_s = 20,000$  psi (Reinforcement)  
 $V_c = 75$  psi (Footings)  
 $n = 10$

Precast Prestressed Units  
 $f'_c = 5,000$  psi  
 $f'_{ci} = 4,000$  psi  
 $f'_s = 248,000$  psi (Cables)  
 $f'_{st} = 173,600$  psi  
 $n = 10$

Current Construction  
Field Units  
 $f_c = 4,000$  psi (Superstructure)  
 $f_y = 60,000$  psi (Reinforcement)



**ELEVATION**

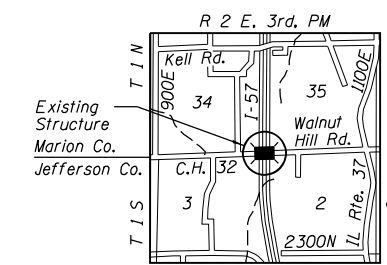


**PLAN**

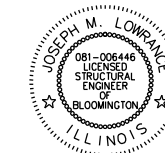


**LEGEND**

- Remove and plug existing deck drain. Paid for as Deck Slab Repair (Full Depth, Type 1).
- Remove and replace existing deck drain. Paid for as Floor Drains and Deck Slab Repair (Full Depth, Type 1).



**LOCATION SKETCH**



Joseph M. Lowrance  
Date 1/26/2022  
 JOSEPH M. LOWRANCE  
 ILLINOIS STRUCTURAL ENGINEER  
 NO. 081-006446  
 Exp. Date 11/30/22

**GENERAL PLAN AND ELEVATION  
 WALNUT HILL ROAD (C.H. 32)  
 OVER INTERSTATE 57  
 F.A.I. ROUTE 57 -  
 SEC 61-(1,1-1,1-2,2)RS-1  
 MARION COUNTY  
 STATION 50+00.00  
 STRUCTURE NO. 061-0027**



DESIGNED - MSJ	REVISED
CHECKED - JCZ	REVISED
DRAWN - DJM	REVISED
DATE - 01/26/2022	REVISED
CHECKED - JML	REVISED

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION  
 STRUCTURE NO. 061-0027**

SHEET NO. 1 OF 6 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	146
CONTRACT NO. 76F79				

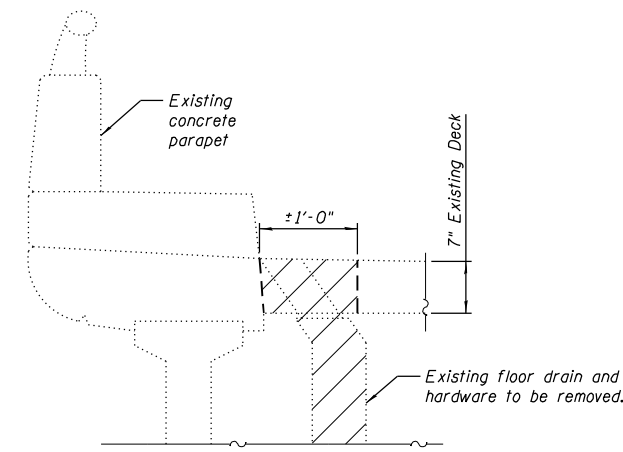
ILLINOIS FED. AID PROJECT NHPP-KC90(76B)

**TOTAL BILL OF MATERIAL**

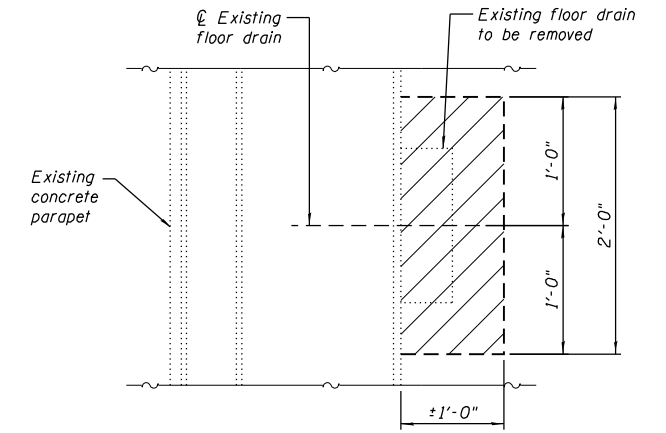
ITEMS	UNITS	TOTAL
Stone Riprap, Class A3	Sq. Yd.	32
Class D Patches, Type II, 6 Inch	Sq. Yd.	40
Steel Railing, Type 2399	Foot	46
Concrete Sealer	Sq. Ft.	4,821
Steel Railing Removal	Foot	50
Concrete Curb (Special)	Foot	65
Floor Drains	Each	16
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	6

**GENERAL NOTES**

- No field welding is permitted except as specified in the contract documents.
- Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
- Concrete Sealer shall be applied to existing concrete surfaces at the locations specified in Article 503.19 of the Standard Specifications. Concrete Sealer shall not be applied to oil & chip surfaces. Deck drains shall be temporarily plugged and existing pavement markings shall be temporarily covered prior to the application of Concrete Sealer. The temporary covering material used shall be such that it will not affect the retroreflectivity of the pavement markings when removed.
- See the roadway plans for details related to shoulder improvements, guardrail items, and traffic control items.

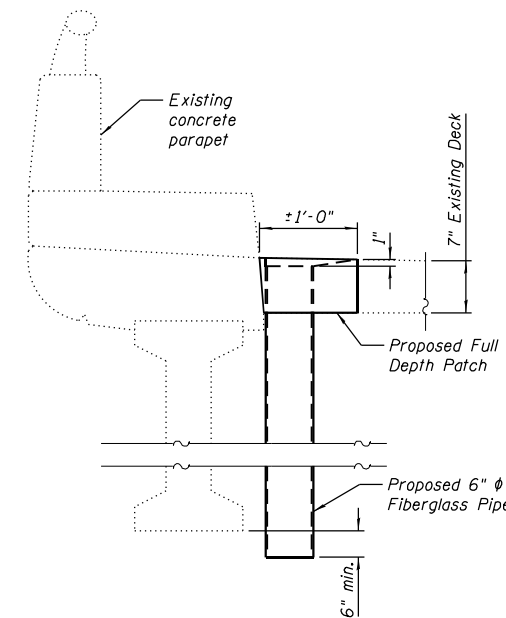


**SECTION - REMOVAL OF EXISTING FLOOR DRAIN AND ADJACENT CONCRETE**

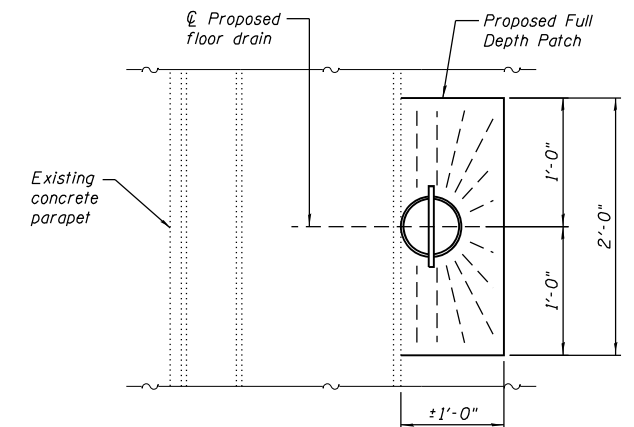


**PLAN - REMOVAL OF EXISTING FLOOR DRAIN AND ADJACENT CONCRETE**

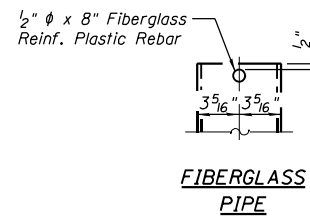
Notes:  
 Fiberglass pipe shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.  
 The exterior surfaces of the fiberglass floor drains shall be pigmented by the manufacturer with a color that matches the concrete.  
 Slope top surface of full depth patch to drain.  
 See General Plan and Elevation Sheet for locations.



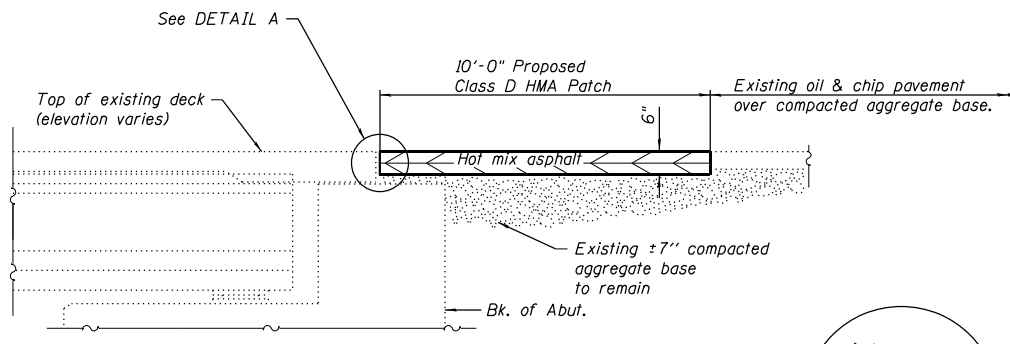
**SECTION - PROPOSED FLOOR DRAIN WITH FULL DEPTH PATCH**



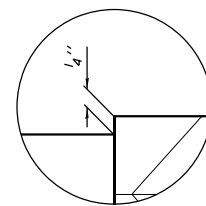
**PLAN - PROPOSED FLOOR DRAIN WITH FULL DEPTH PATCH**



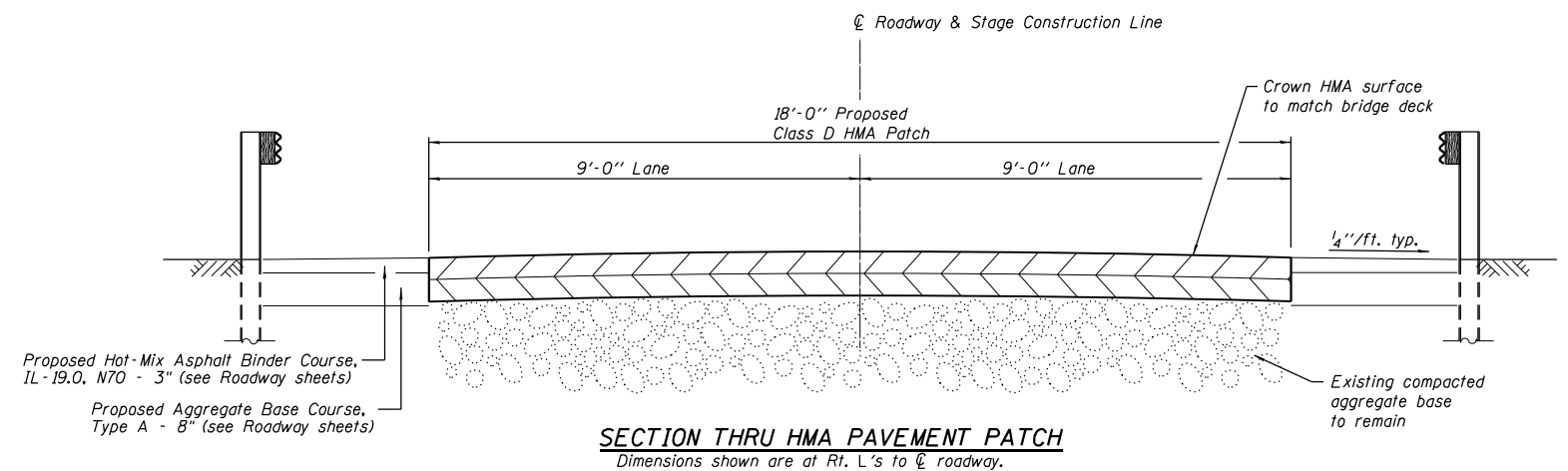
**FIBERGLASS PIPE**



**SECTION THRU HMA PAVEMENT PATCH AT ABUTMENT**  
 Dimensions shown are measured along the C roadway.

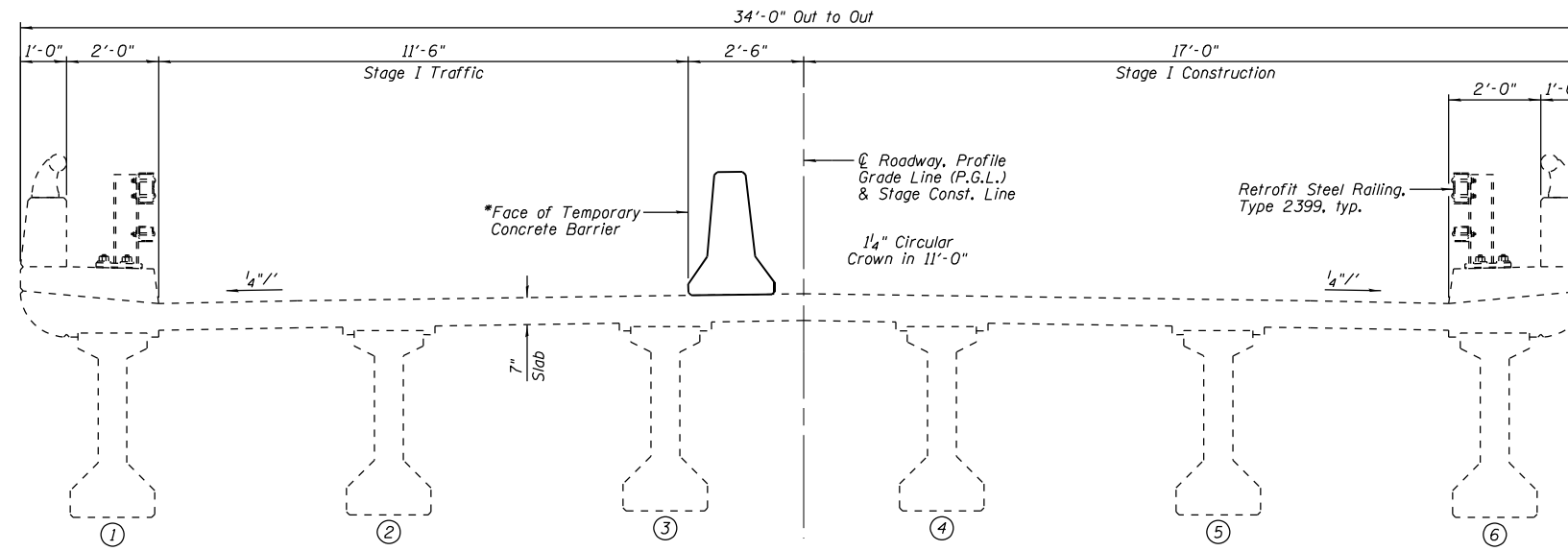


**DETAIL A**

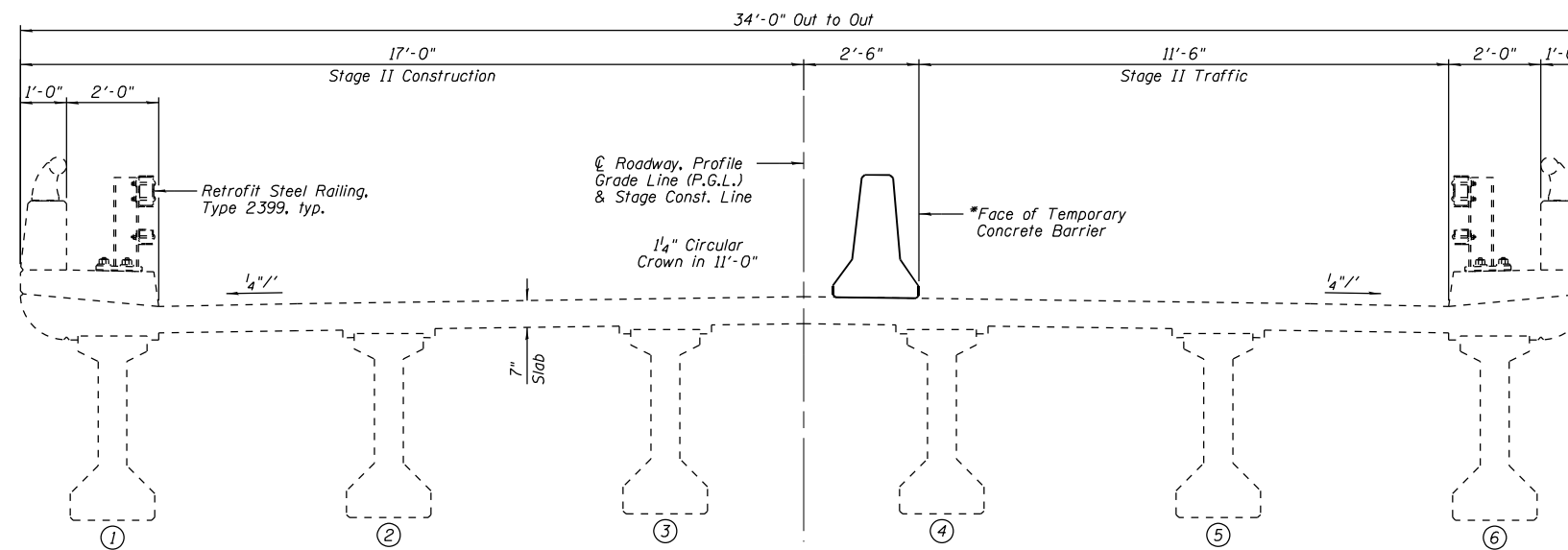


**SECTION THRU HMA PAVEMENT PATCH**  
 Dimensions shown are at Rt. L's to C roadway.





**STAGE I**  
 (Looking East @  $\odot$  of Bridge)  
 \*Temporary Concrete Barrier, see Std. 704001

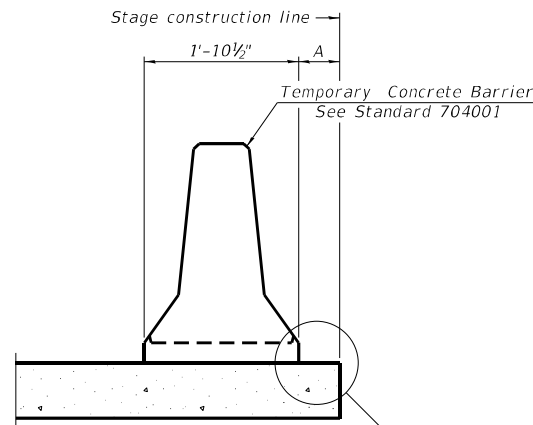


**STAGE II**  
 (Looking East @  $\odot$  of Bridge)  
 \*Temporary Concrete Barrier, see Std. 704001

**NOTE:**  
 See Roadway Plans for Temporary Concrete Barrier quantity.

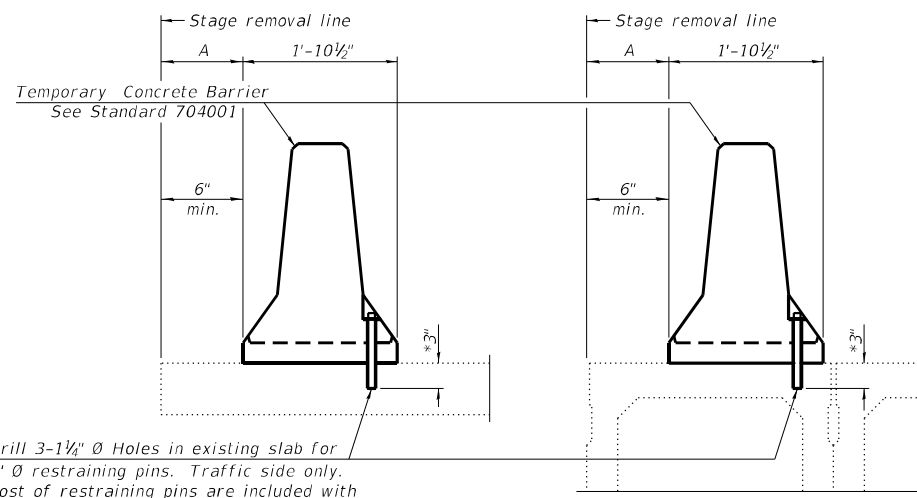
DESIGNED - MSJ	REVISED
CHECKED - JCZ	REVISED
DRAWN - DJM	REVISED
CHECKED - JML	REVISED
DATE - 01/26/2022	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	148
CONTRACT NO. 76F79				



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**

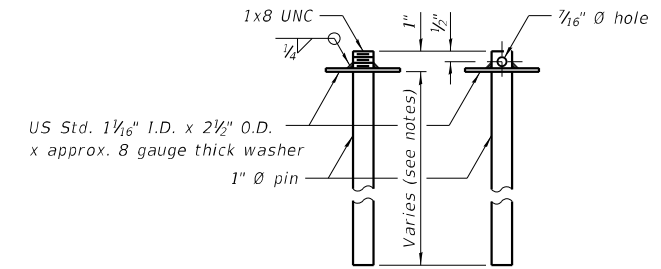


Drill 3-1 1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

**EXISTING SLAB**

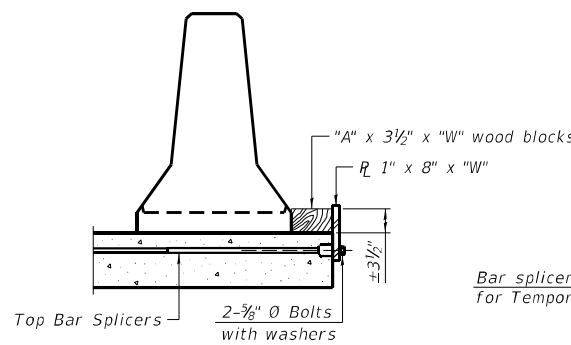
**EXISTING DECK BEAM**

**SECTIONS THRU SLAB OR DECK BEAM**

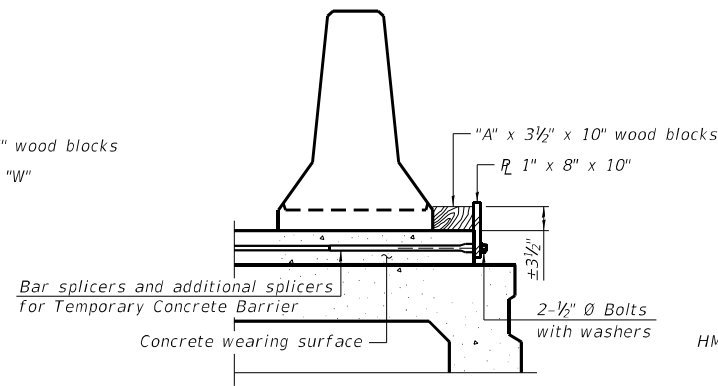


**RESTRAINING PIN**

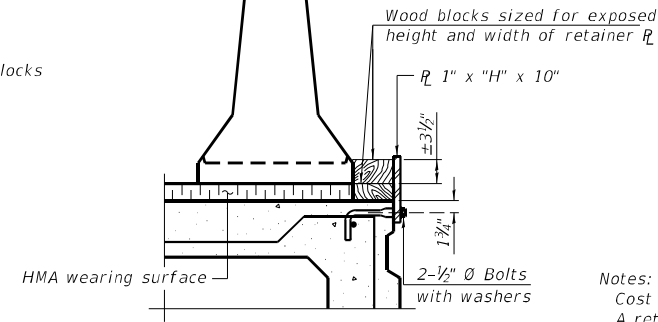
\* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.



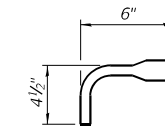
**DETAIL I**



**DETAIL II**



**DETAIL III**



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

**Notes:**  
 Cost of retainer assembly is included with Temporary Concrete Barrier.  
 A retainer assembly shall be located at the approximate  $\bar{C}$  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.

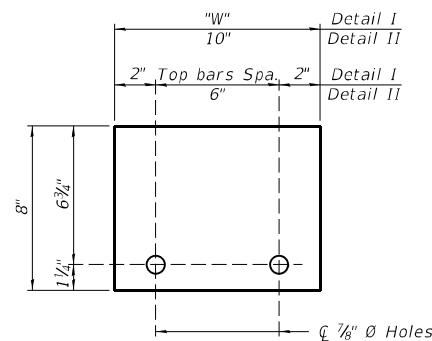
Detail I - Installation for a new bridge deck or bridge slab.

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.

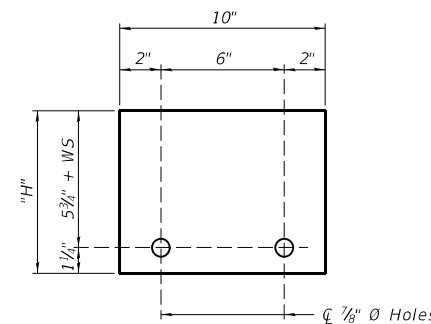
Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate 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.

**RAILING CRITERIA**

NCHRP 350 Test Level	3
Railing Weight (plf)	440



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



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

R-27

10-12-2021



DESIGNED - MSJ	REVISED
CHECKED - JCZ	REVISED
DRAWN - DJM	REVISED
CHECKED - JML	REVISED
DATE - 01/26/2022	

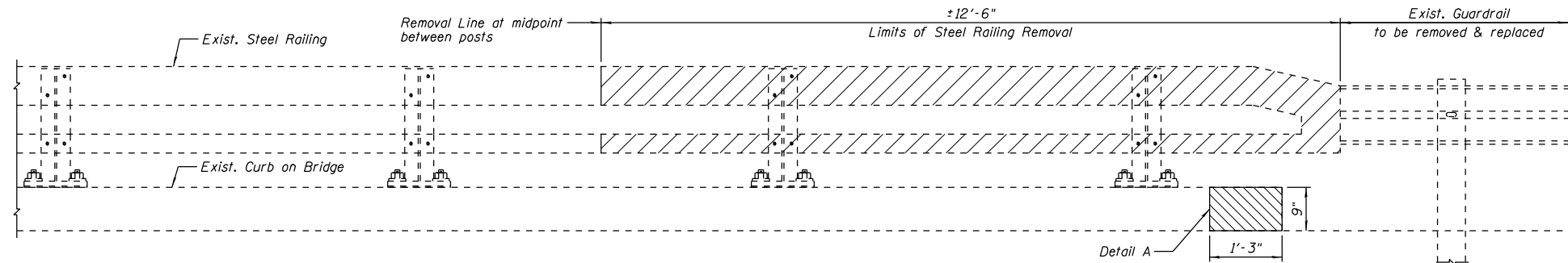
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CONCRETE BARRIER  
STRUCTURE NO. 061-0027**

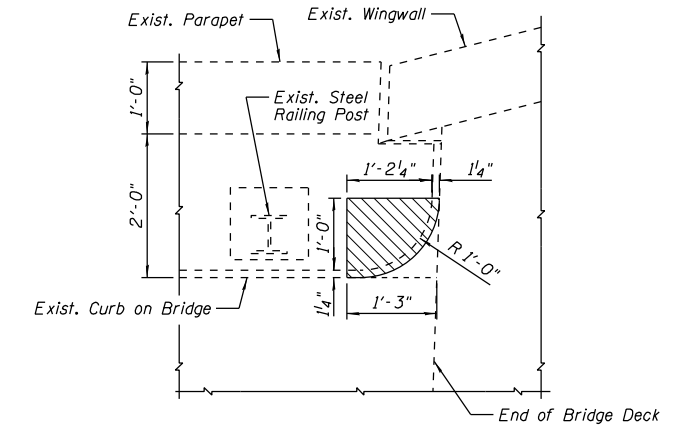
SHEET NO. 4 OF 6 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	149
CONTRACT NO. 76F79				

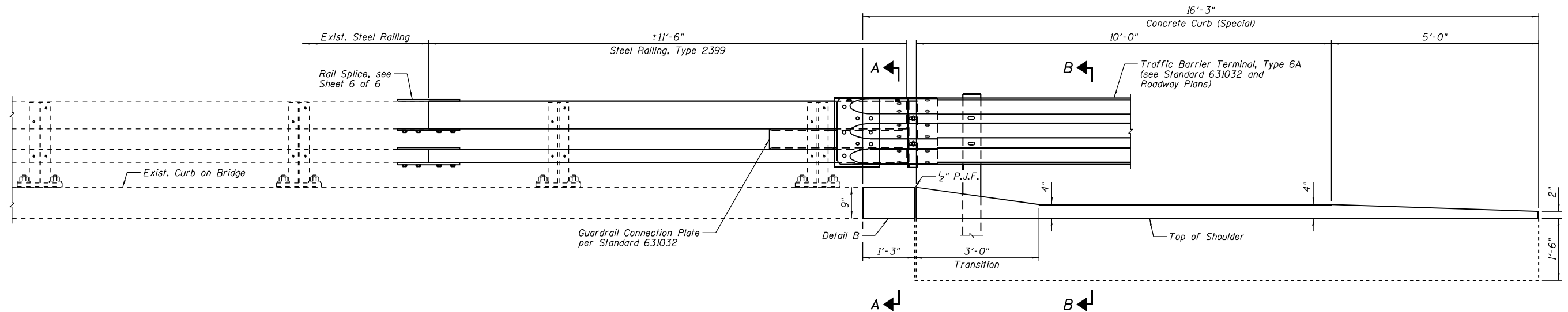
ILLINOIS FED. AID PROJECT NHPP-KC90(76B)



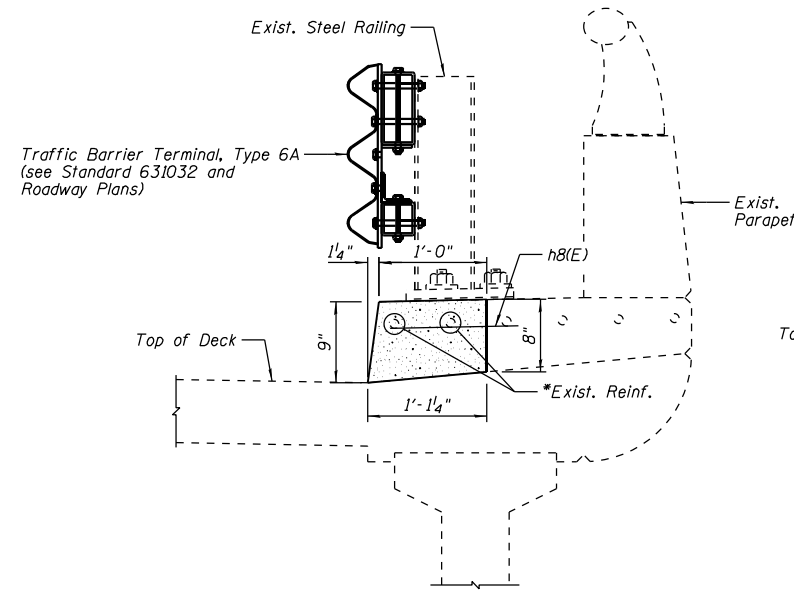
**INSIDE ELEVATION SHOWING REMOVAL**



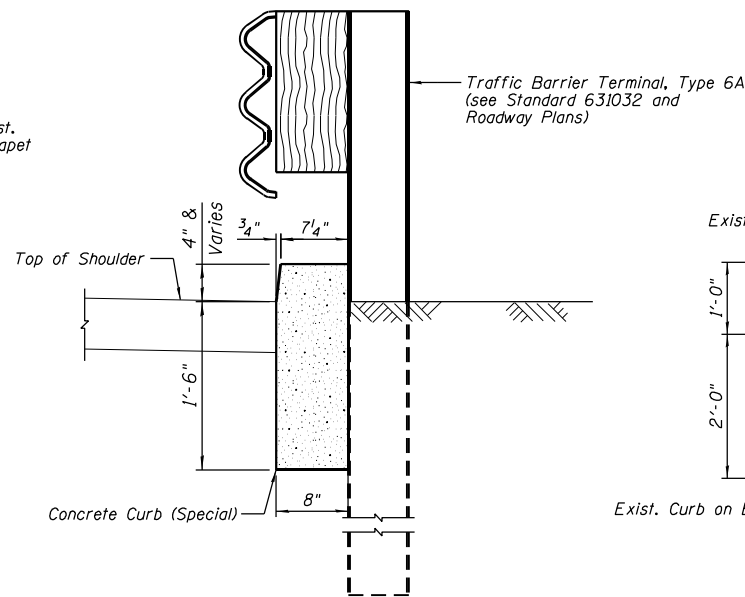
**DETAIL A**



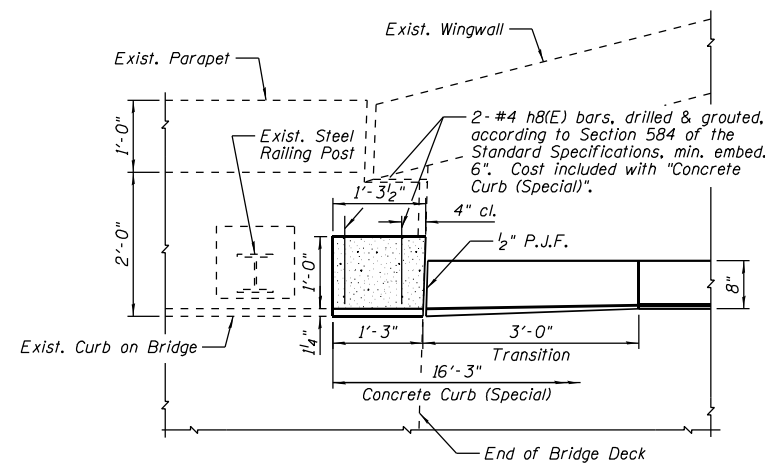
**INSIDE ELEVATION SHOWING REPLACEMENT**



**SECTION A-A**



**SECTION B-B**



**DETAIL B**

**BILL OF MATERIAL**

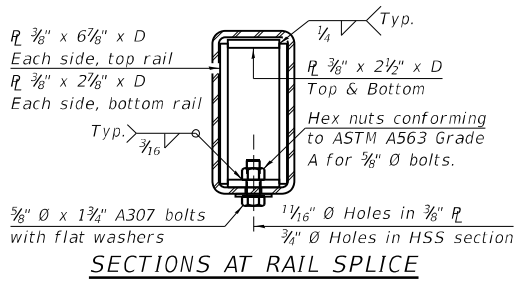
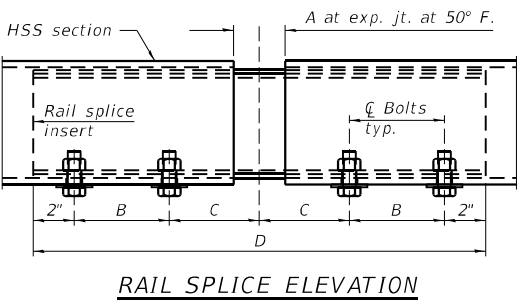
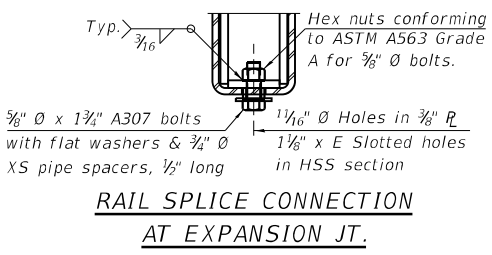
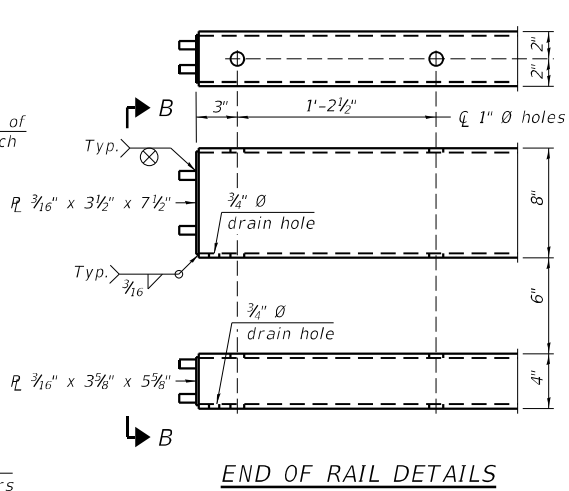
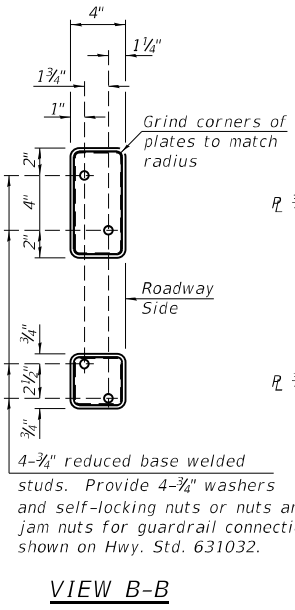
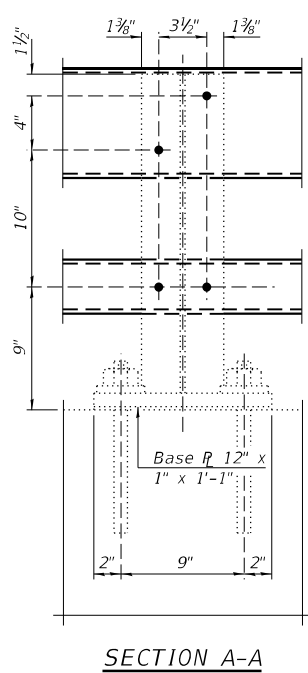
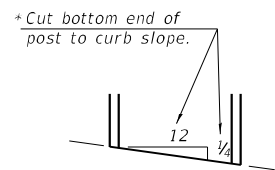
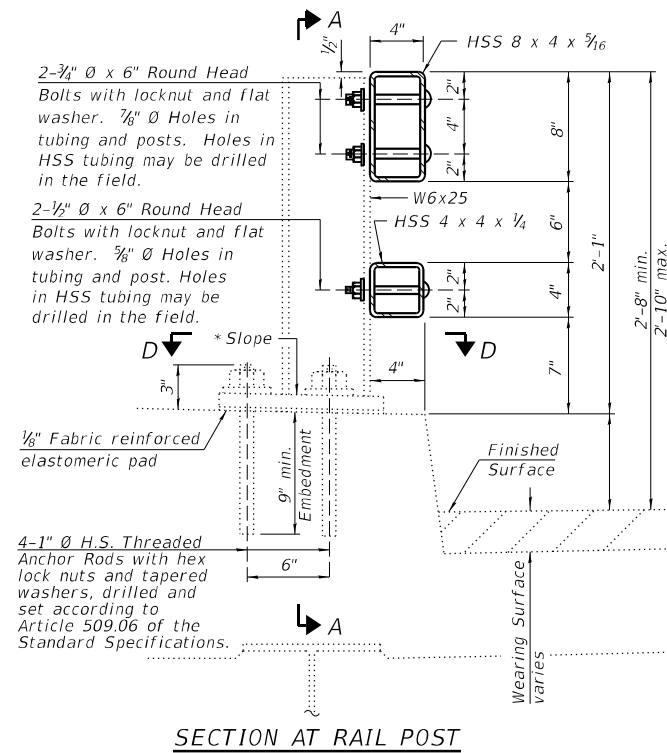
Item	Unit	Quantity
Steel Railing Removal	Foot	50
Concrete Curb (Special)	Foot	65

**LEGEND**

- Steel Railing Removal
- Concrete Removal. Cost included with "Concrete Curb (Special)".

**NOTES:**

- 1.) Steel Railing Retrofit details are common to each quadrant of the bridge.
- 2.) \*Existing reinforcement extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost shall be included with "Concrete Curb Special".



**Notes:**

Posts shall not be located closer than 1'-3" to an existing bridge expansion joint or end of bridge.

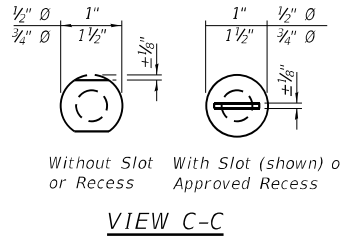
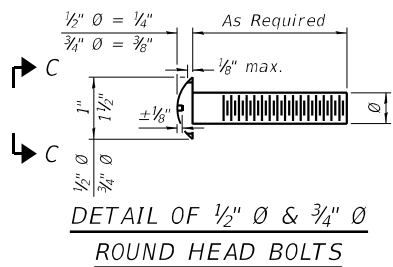
Provide one 1/8" and two 1/16" steel shims for 25% of the posts. Shims shall be similar to base plates in size and holes.

All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

All HSS tubing shall be CVN tested according to Article 1006.34(b) of the Standard Specifications.

Rail splice inserts may be built out of 2 -3/8" bent plates in lieu of the 4 plate rail splice inserts shown, provided the outside dimensions are matched.

All round head bolts shall be ASTM A307 with locknuts according to ASTM A563 grade A.



**SPLICE DIMENSIONS**

Location	T	A	B	C	D	E
All locs. not over exp. jts.	0	1/4"	4"	4"	1'-8"	-
Over Strip Seal Jt.	≤4"	2 1/2"	4 5/8"	4 3/8"	1'-10"	3 1/16"
Over Finger or Modular Jt.	≤9 1/2"	5 1/2"	7 3/8"	7 1/4"	2'-9 1/4"	5 1 3/16"
Over Finger or Modular Jt.	≤15"	8 1/2"	10 1/8"	10"	3'-8 1/4"	8 3/16"

T = ; total movement along centerline of roadway at expansion joint.

**RAILING CRITERIA**

NCHRP 350 Test Level	4
Railing Weight (plf)	70
Max Post Spacing	6'-3"

**BILL OF MATERIAL**

Item	Unit	Quantity
Steel Railing, Type 2399	Foot	46

R-31

10-12-2021



DESIGNED - MSJ	REVISED
CHECKED - JCZ	REVISED
DRAWN - DJM	REVISED
CHECKED - JML	REVISED
DATE - 01/26/2022	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STEEL RAILING, TYPE 2399  
STRUCTURE NO. 061-0027**

SHEET NO. 6 OF 6 SHEETS

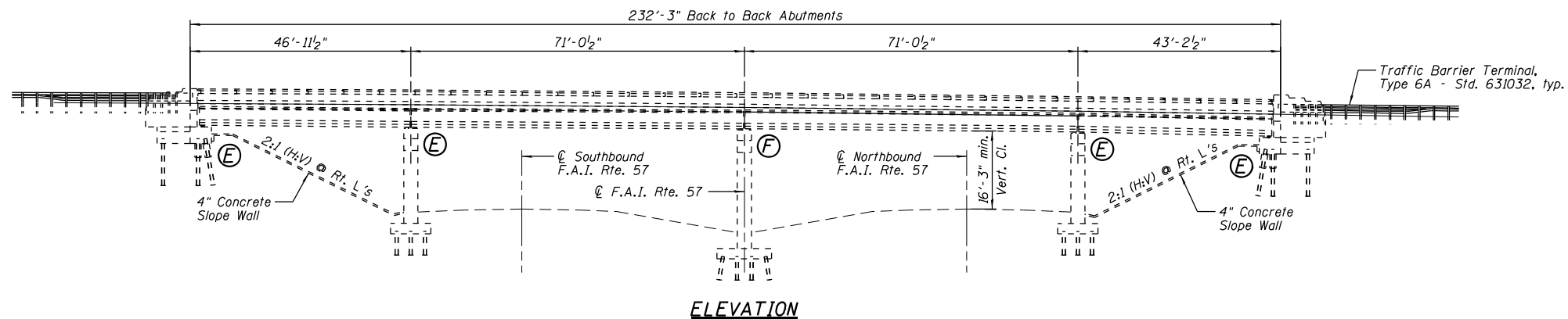
F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	151
				CONTRACT NO. 76F79

ILLINOIS FED. AID PROJECT NHPP-KC90(76B)

Existing Structure: Structure No. 061-0046 built in 1966 as Section 61-1HB-2. The superstructure consists of a four span precast prestressed concrete girder bridge with a 7" cast-in-place concrete deck. Abutments are pile supported stub abutments with expansion bearings. Piers are hammerhead piers supported by footings on piles. The back to back abutments length is 232'-3" and out to out of deck width is 30'-0". The span lengths are 44'-4 $\frac{3}{8}$ ", 71'-0 $\frac{1}{2}$ ", 71'-0 $\frac{1}{2}$ ", and 40'-7 $\frac{3}{8}$ ". The structure is on a 7°00'00" left forward skew. One lane of traffic will be maintained utilizing stage construction.

**SCOPE OF WORK**

- 1.) Maintain one lane of traffic utilizing Stage Construction.
- 2.) Install steel railing as indicated in the plans.
- 3.) Construct concrete curb and pavement patching as indicated in the plans.
- 4.) Remove and plug or replace existing deck drains as indicated in the plans.
- 5.) Apply concrete sealer as indicated in the general notes.



**INDEX OF SHEETS**

SHEET NO.	TITLE
1	GENERAL PLAN AND ELEVATION
2	GENERAL DATA
3	STAGE CONSTRUCTION
4	TEMPORARY CONCRETE BARRIER
5	STEEL RAILING DETAILS
6	STEEL RAILING, TYPE 2399

**LOADING HS15-44**

**DESIGN SPECIFICATIONS**

Current Construction  
2002 AASHTO Standard Specifications for Highway Bridges, 17th Edition

**DESIGN STRESSES**

Original Construction  
Field Units

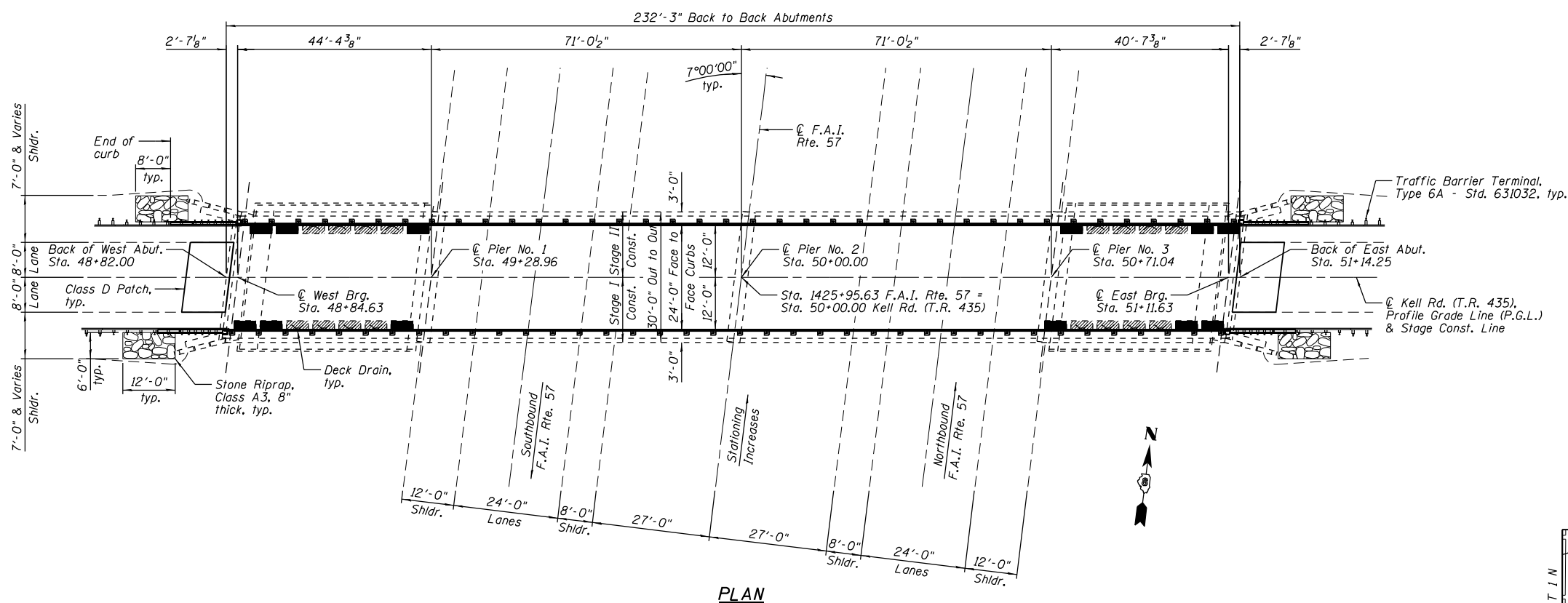
$f_c$  = 1,400 psi (Superstructure & Substructure)  
 $f_s$  = 20,000 psi (Reinforcement)  
 $V_c$  = 75 psi (Footings)  
 $n$  = 10

**Precast Prestressed Units**

$f_c$  = 5,000 psi  
 $f_{ci}$  = 4,000 psi  
 $f_s$  = 248,000 psi (Cables)  
 $f_{si}$  = 173,600 psi

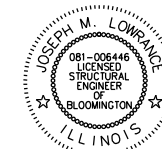
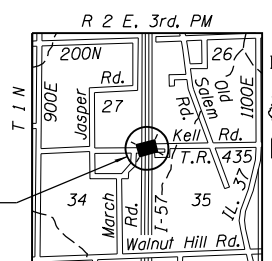
**Current Construction**  
Field Units

$f_c$  = 4,000 psi (Superstructure)  
 $f_y$  = 60,000 psi (Reinforcement)



**LEGEND**

- Remove and plug existing deck drain. Paid for as Deck Slab Repair (Full Depth, Type I).
- Remove and replace existing deck drain. Paid for as Floor Drains and Deck Slab Repair (Full Depth, Type I).



Joseph M. Lowrance Date 1/26/2022

JOSEPH M. LOWRANCE  
ILLINOIS STRUCTURAL ENGINEER  
NO. 081-006446  
Exp. Date 11/30/22

**GENERAL PLAN AND ELEVATION  
KELL RD. (T.R. 435)  
OVER INTERSTATE 57  
F.A.I. ROUTE 57 -  
SEC 61-(1,1-1,1-2,2)RS-1  
MARION COUNTY  
STATION 50+00.00  
STRUCTURE NO. 061-0046**



DESIGNED - MSJ	REVISED
CHECKED - JCZ	REVISED
DRAWN - DJM	REVISED
DATE - 01/26/2022	REVISOR
CHECKED - JML	REVISED

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION  
STRUCTURE NO. 061-0046**

SHEET NO. 1 OF 6 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	152
				CONTRACT NO. 76F79

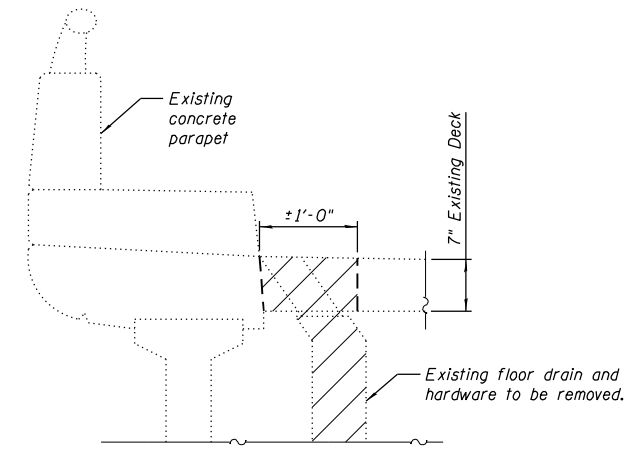
ILLINOIS FED. AID PROJECT NHPP-KC901768

**TOTAL BILL OF MATERIAL**

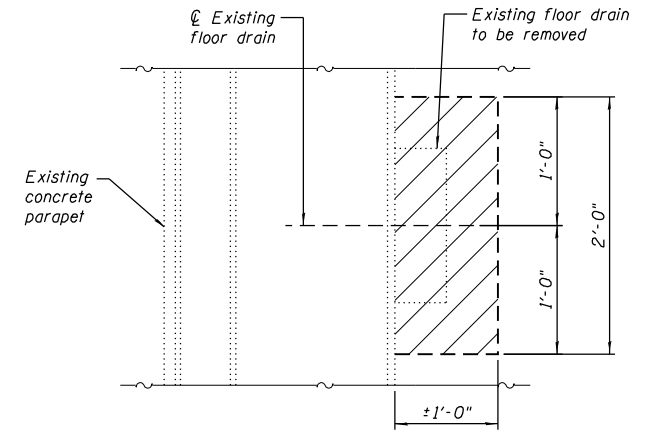
ITEMS	UNITS	TOTAL
Stone Riprap, Class A3	Sq. Yd.	32
Class D Patches, Type II, 6 Inch	Sq. Yd.	36
Steel Railing, Type 2399	Foot	461
Concrete Sealer	Sq. Ft.	8,110
Concrete Curb (Special)	Foot	64
Floor Drains	Each	16
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	6

**GENERAL NOTES**

- No field welding is permitted except as specified in the contract documents.
- Reinforcement bars designated (E) shall be epoxy coated.
- Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
- Concrete Sealer shall be applied to existing concrete surfaces at the locations specified in Article 503.19 of the Standard Specifications. Deck drains shall be temporarily plugged and existing pavement markings shall be temporarily covered prior to the application of Concrete Sealer. The temporary covering material used shall be such that it will not affect the retroreflectivity of the pavement markings when removed.
- See the roadway plans for details related to shoulder improvement, guardrail items, and traffic control items.

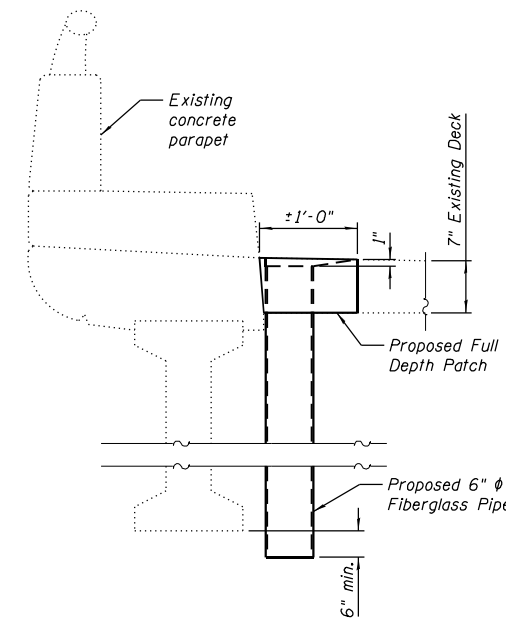


**SECTION - REMOVAL OF EXISTING FLOOR DRAIN AND ADJACENT CONCRETE**

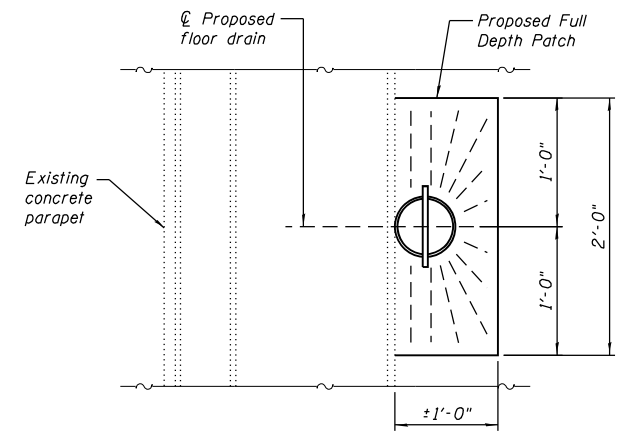


**PLAN - REMOVAL OF EXISTING FLOOR DRAIN AND ADJACENT CONCRETE**

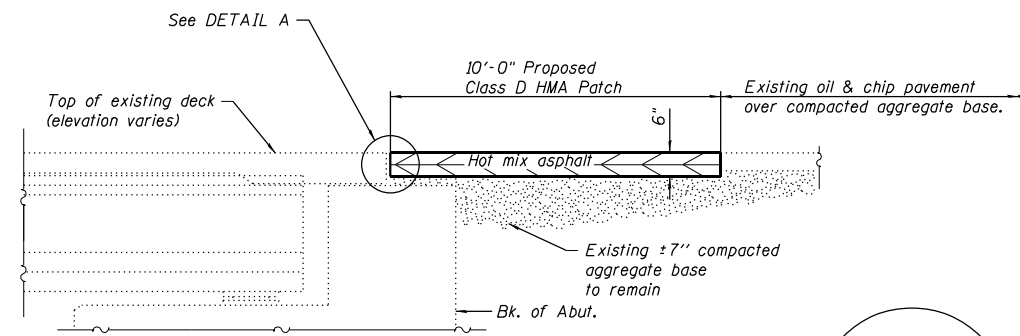
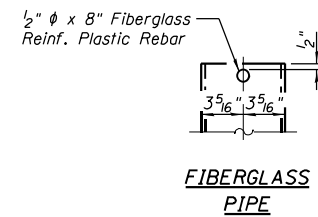
Notes:  
 Fiberglass pipe shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.  
 The exterior surfaces of the fiberglass floor drains shall be pigmented by the manufacturer with a color that matches the concrete.  
 Slope top surface of full depth patch to drain.  
 See General Plan and Elevation Sheet for locations.



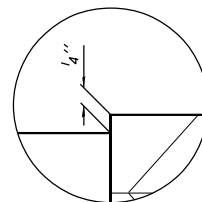
**SECTION - PROPOSED FLOOR DRAIN WITH FULL DEPTH PATCH**



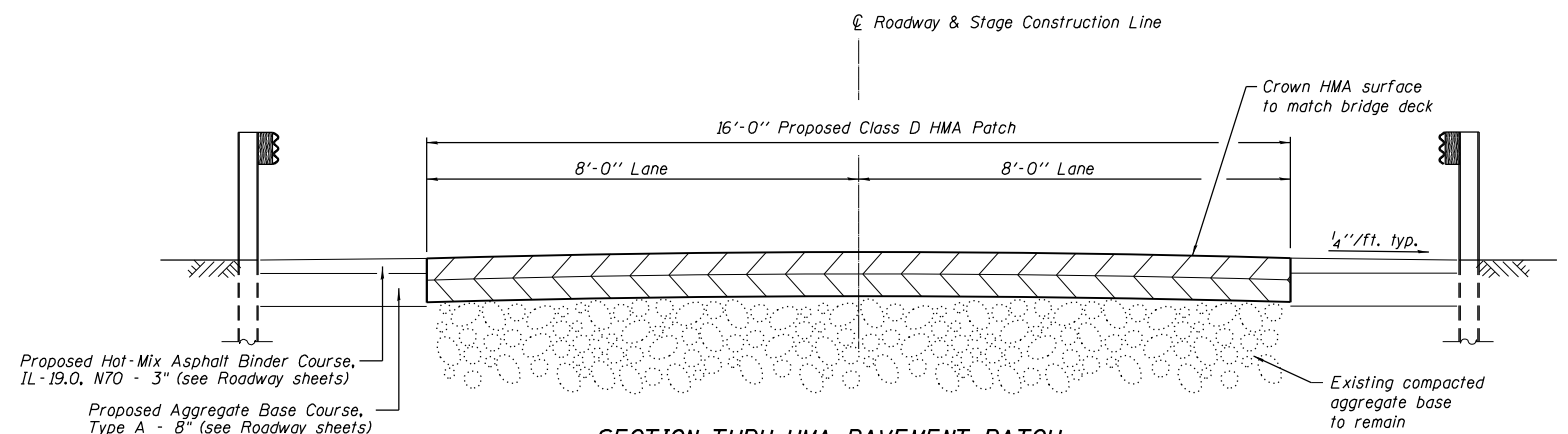
**PLAN - PROPOSED FLOOR DRAIN WITH FULL DEPTH PATCH**



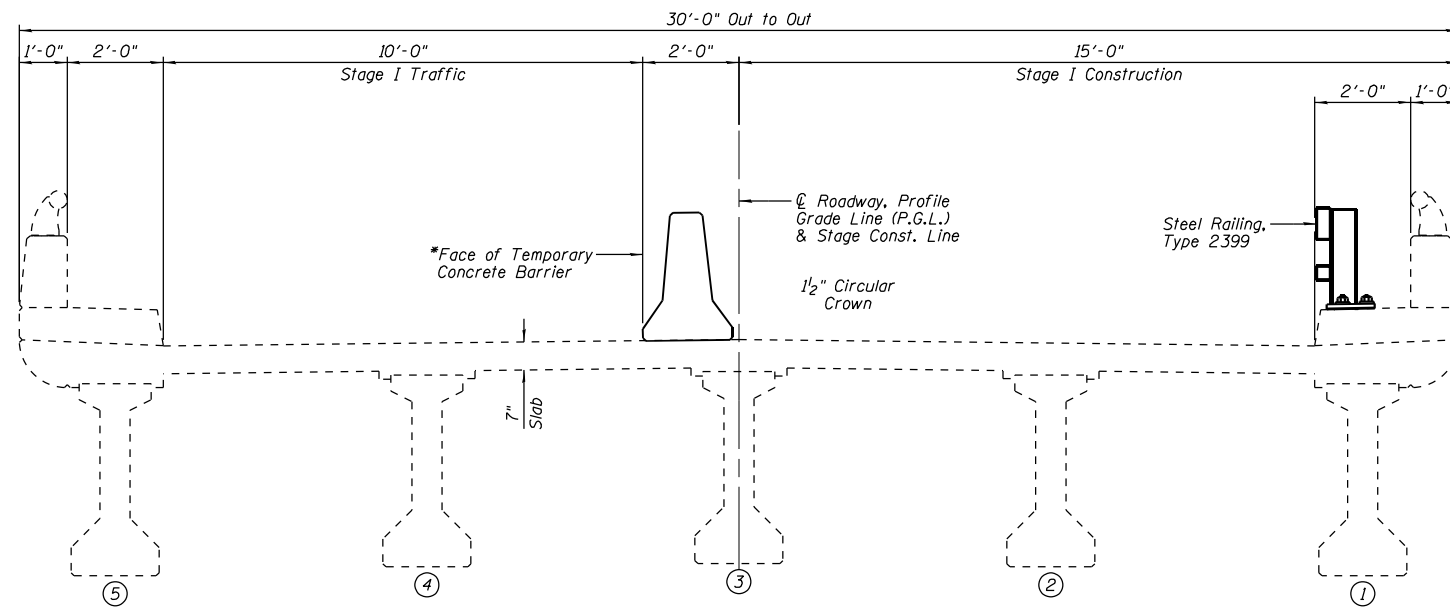
**SECTION THRU HMA PAVEMENT PATCH AT ABUTMENT**  
 Dimensions shown are measured along the centerline of roadway.



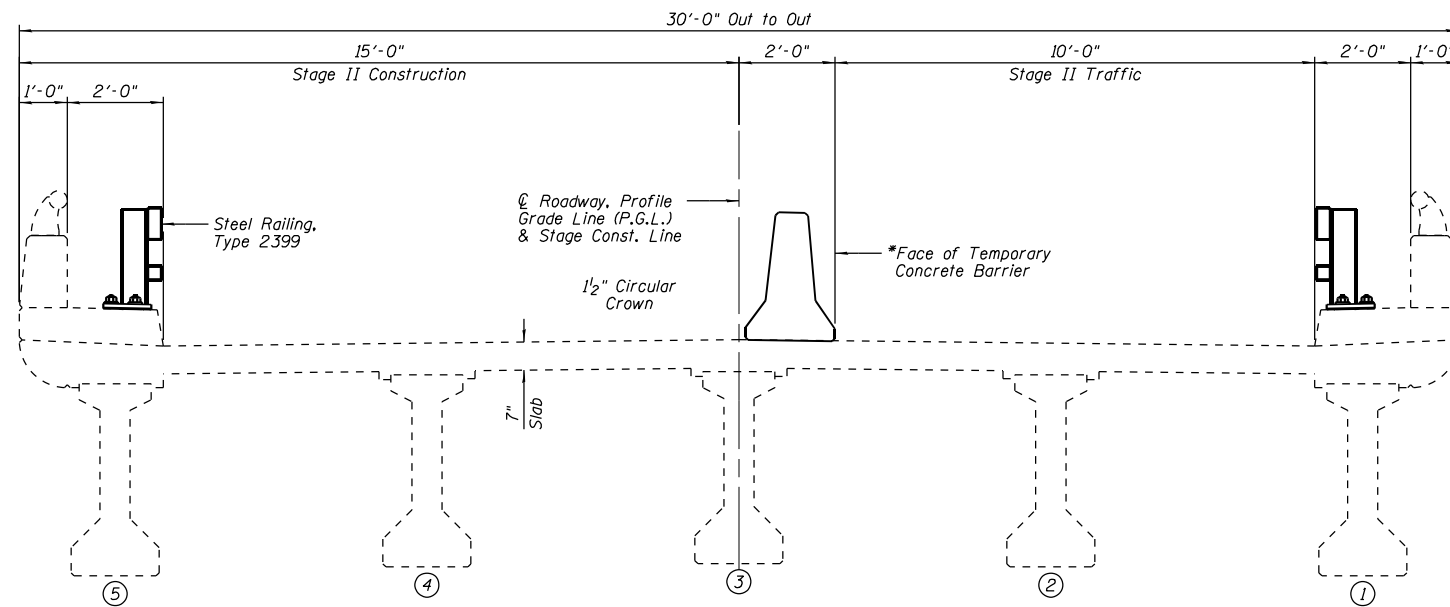
**DETAIL A**



**SECTION THRU HMA PAVEMENT PATCH**  
 Dimensions shown are at Right Line to centerline of roadway.



**STAGE I**  
 (Looking East @ C of Bridge)  
 \*Temporary Concrete Barrier, see Std. 704001

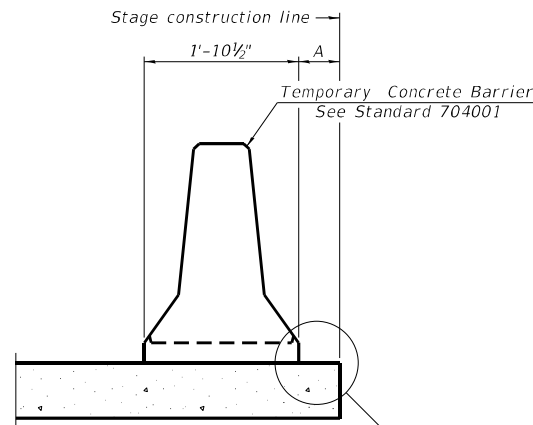


**STAGE II**  
 (Looking East @ C of Bridge)  
 \*Temporary Concrete Barrier, see Std. 704001

**NOTE:**  
 See Roadway Plans for Temporary Concrete Barrier quantity.

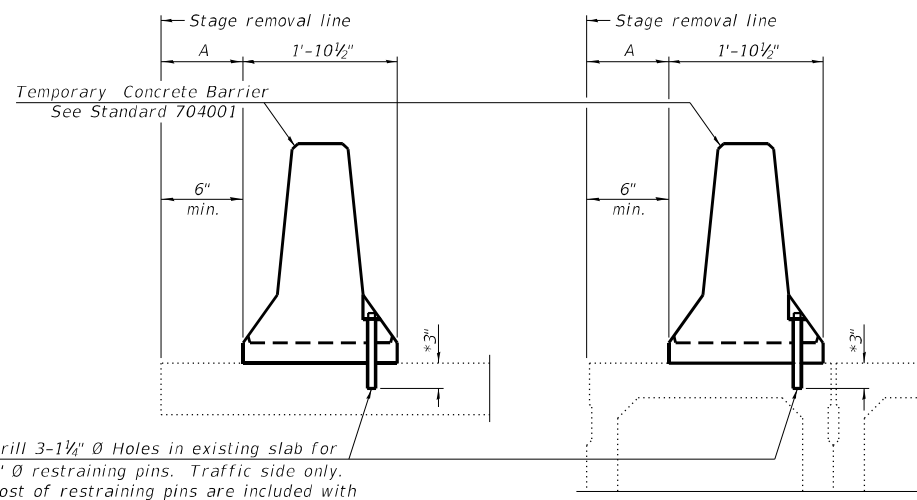
DESIGNED - MSJ	REVISED
CHECKED - JCZ	REVISED
DRAWN - DJM	REVISED
CHECKED - JML	REVISED
DATE - 01/26/2022	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	154
CONTRACT NO. 76F79				
ILLINOIS FED. AID PROJECT NHPP-KC90176B				



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**

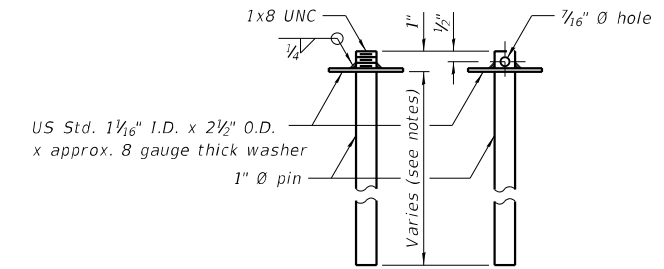


Drill 3-1 1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

**EXISTING SLAB**

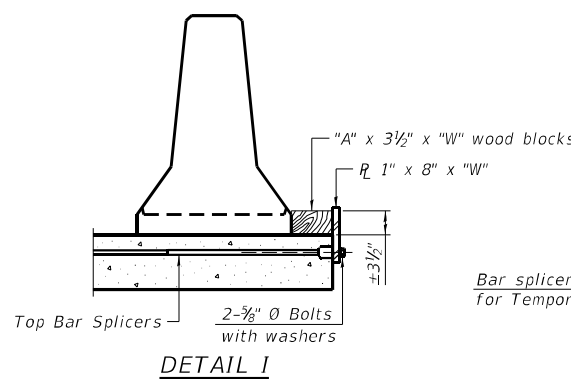
**EXISTING DECK BEAM**

**SECTIONS THRU SLAB OR DECK BEAM**

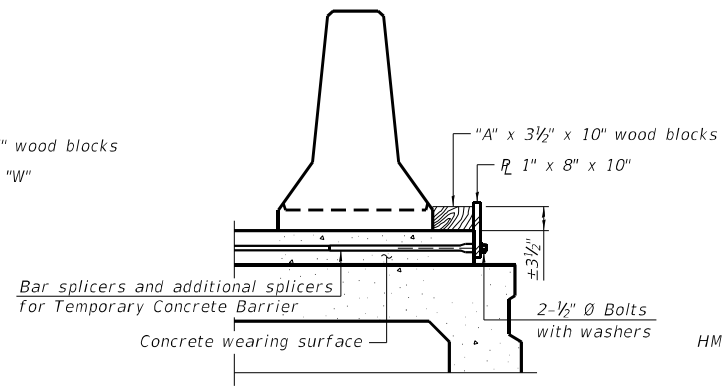


**RESTRAINING PIN**

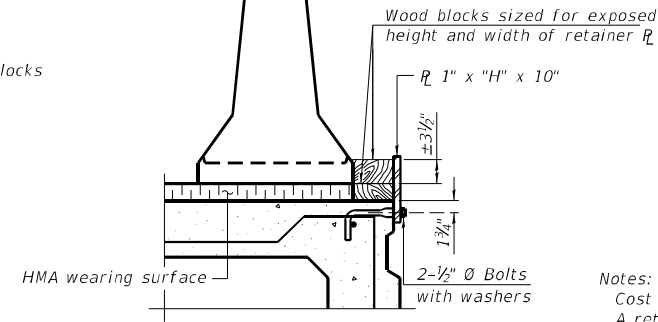
\* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.



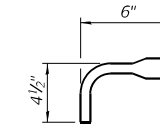
**DETAIL I**



**DETAIL II**



**DETAIL III**



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

**Notes:**  
 Cost of retainer assembly is included with Temporary Concrete Barrier.  
 A retainer assembly shall be located at the approximate  $\bar{C}$  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.

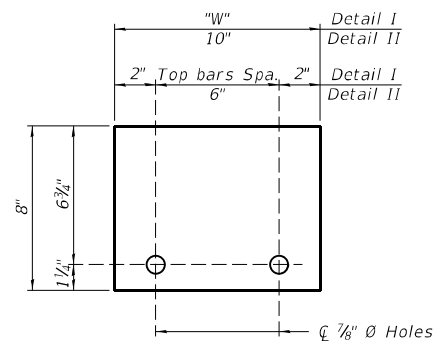
Detail I - Installation for a new bridge deck or bridge slab.

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.

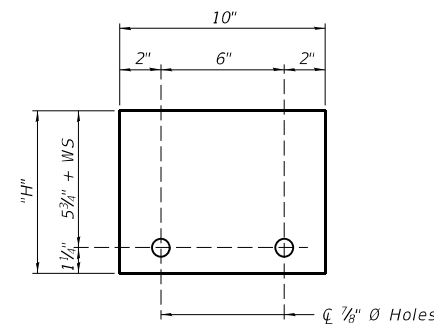
Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate 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.

**RAILING CRITERIA**

NCHRP 350 Test Level	3
Railing Weight (plf)	440



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



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

R-27

10-12-2021



DESIGNED - MSJ	REVISED
CHECKED - JCZ	REVISED
DRAWN - DJM	REVISED
DATE - 01/26/2022	CHECKED - JML
	REVISED

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

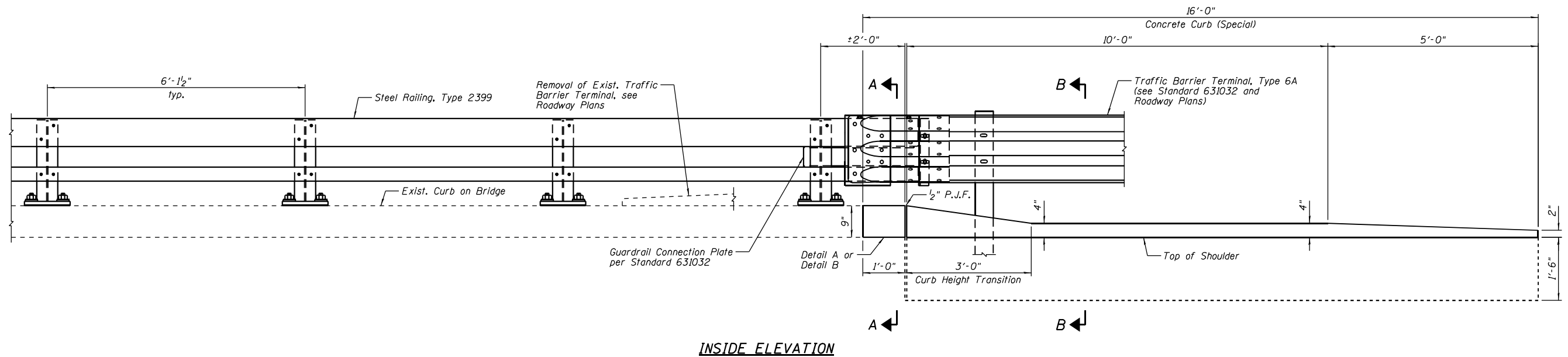
**TEMPORARY CONCRETE BARRIER  
STRUCTURE NO. 061-0046**

SHEET NO. 4 OF 6 SHEETS

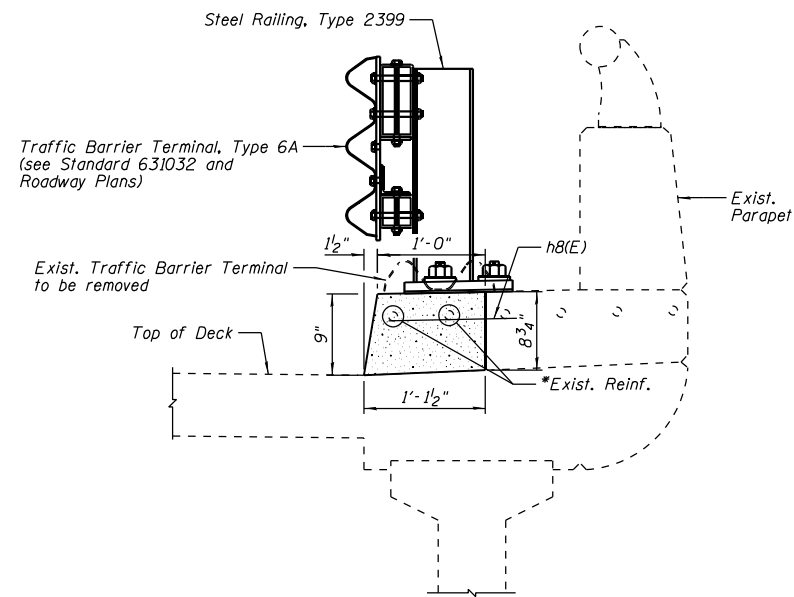
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	155
CONTRACT NO. 76F79				

ILLINOIS FED. AID PROJECT NHPP-KC90(76B)

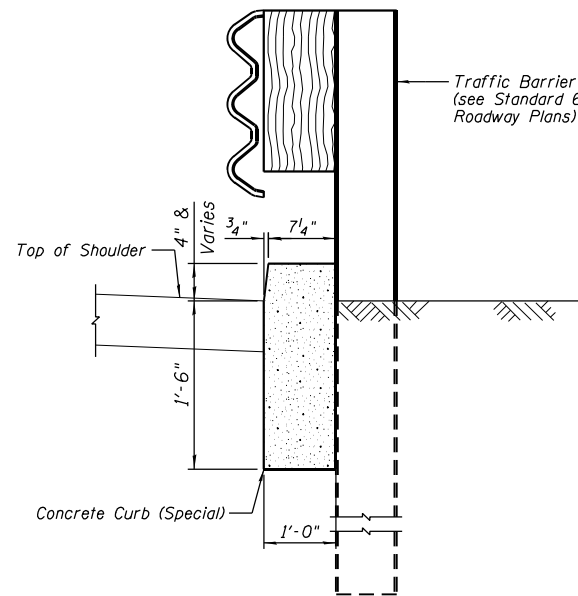




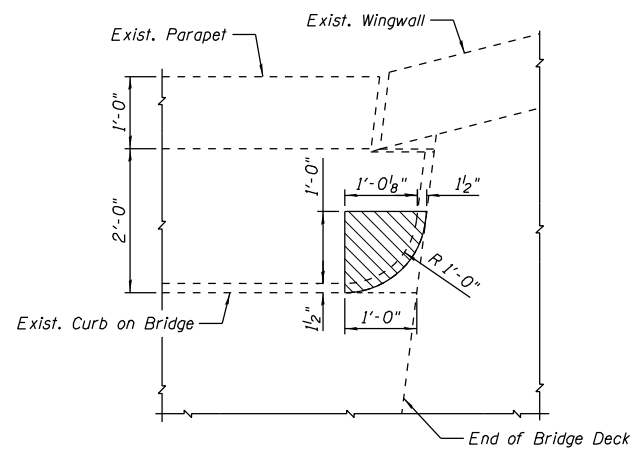
**INSIDE ELEVATION**



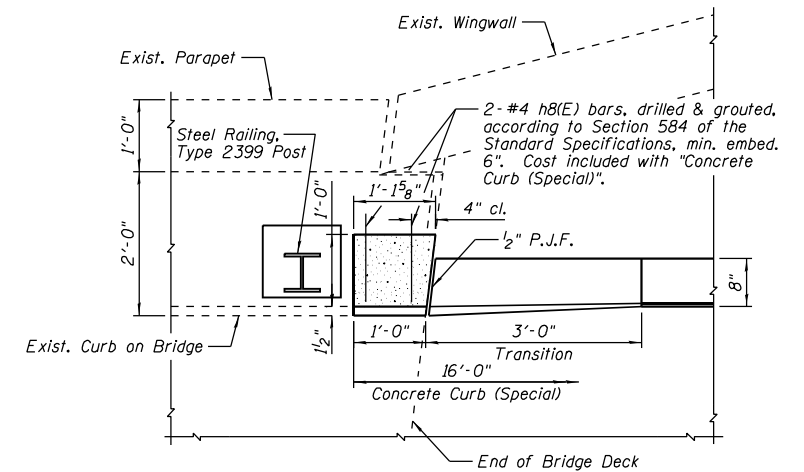
**SECTION A-A**



**SECTION B-B**



**DETAIL A**



**DETAIL B**

**BILL OF MATERIAL**

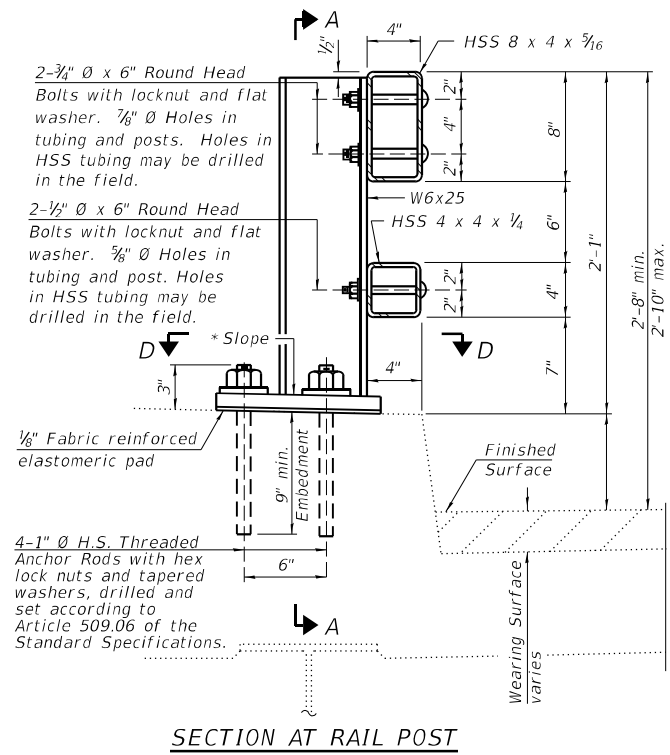
Item	Unit	Quantity
Concrete Curb (Special)	Foot	64

**LEGEND**

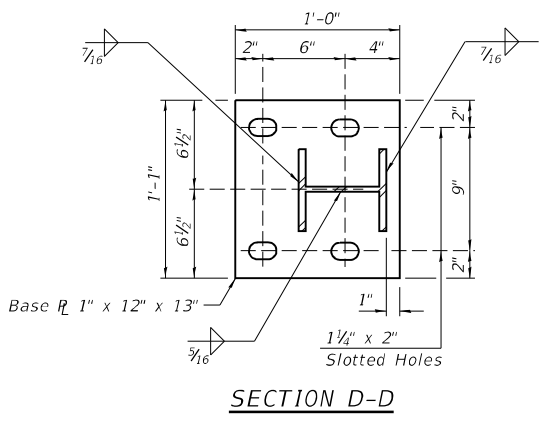
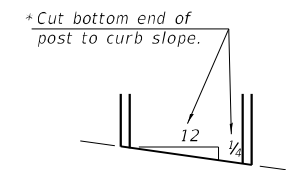
Concrete Removal. Cost included with "Concrete Curb (Special)"

**NOTES:**

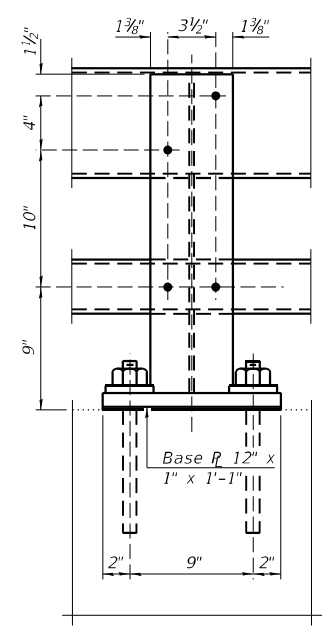
- 1.) Steel Railing details are common to each quadrant of the bridge.
- 2.) \*Existing reinforcement extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost shall be included with "Concrete Curb Special".



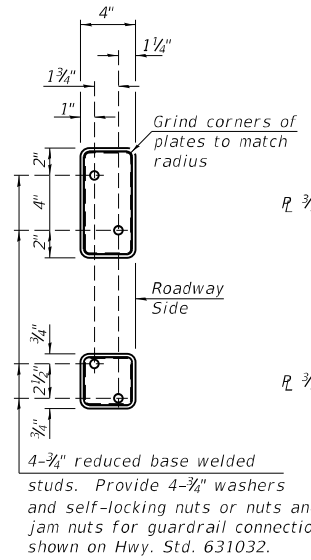
SECTION AT RAIL POST



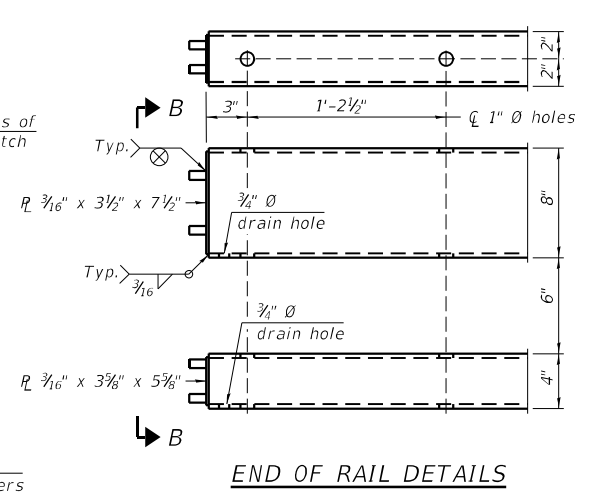
SECTION D-D



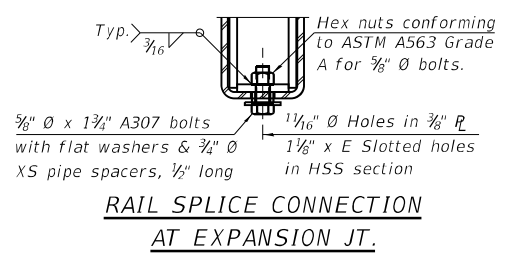
SECTION A-A



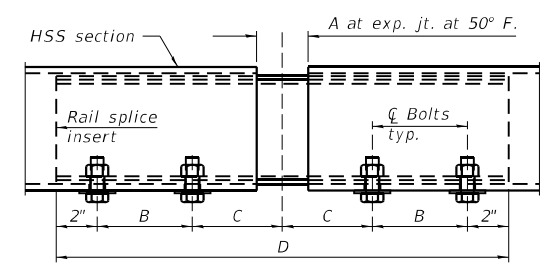
VIEW B-B



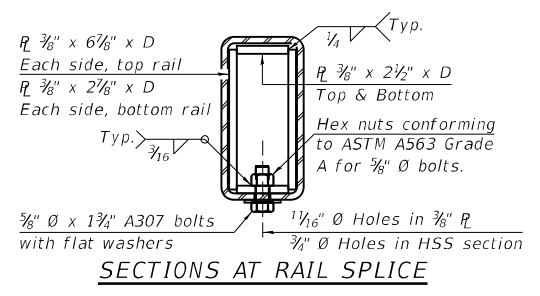
END OF RAIL DETAILS



RAIL SPLICE CONNECTION AT EXPANSION JT.

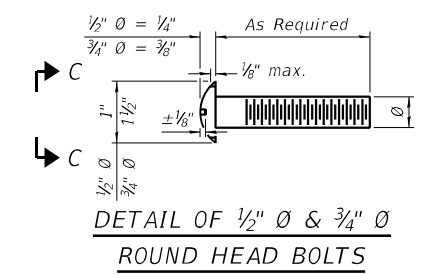


RAIL SPLICE ELEVATION

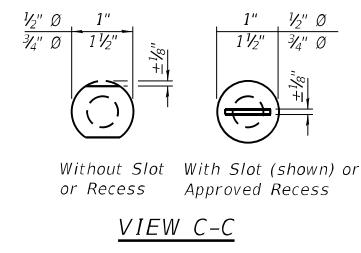


SECTIONS AT RAIL SPLICE

Notes:  
 Posts shall not be located closer than 1'-3" to an existing bridge expansion joint or end of bridge.  
 Provide one 1/8" and two 1/16" steel shims for 25% of the posts. Shims shall be similar to base plates in size and holes.  
 All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.  
 All HSS tubing shall be CVN tested according to Article 1006.34(b) of the Standard Specifications.  
 Rail splice inserts may be built out of 2 -3/8" bent plates in lieu of the 4 plate rail splice inserts shown, provided the outside dimensions are matched.  
 All round head bolts shall be ASTM A307 with locknuts according to ASTM A563 grade A.



DETAIL OF 1/2" & 3/4" ROUND HEAD BOLTS



VIEW C-C

SPLICE DIMENSIONS

Location	T	A	B	C	D	E
All locs. not over exp. jts.	0	1/4"	4"	4"	1'-8"	-
Over Strip Seal Jt.	≤4"	2 1/2"	4 3/8"	4 3/8"	1'-10"	3 1/16"
Over Finger or Modular Jt.	≤9 1/2"	5 1/2"	7 3/8"	7 1/4"	2'-9 1/4"	5 1 3/16"
Over Finger or Modular Jt.	≤15"	8 1/2"	10 1/8"	10"	3'-8 1/4"	8 3/16"

T = ; total movement along centerline of roadway at expansion joint.

RAILING CRITERIA

NCHRP 350 Test Level	4
Railing Weight (plf)	70
Max Post Spacing	6'-3"

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type 2399	Foot	461

R-31

10-12-2021

**Farnsworth GROUP**  
 2709 McGRAW DRIVE  
 BLOOMINGTON, ILLINOIS 61704  
 (309) 663-8435 / info@f-w.com

DESIGNED - MSJ	REVISED
CHECKED - JCZ	REVISED
DRAWN - DJM	REVISED
CHECKED - JML	REVISED
DATE - 01/26/2022	

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

STEEL RAILING, TYPE 2399  
 STRUCTURE NO. 061-0046

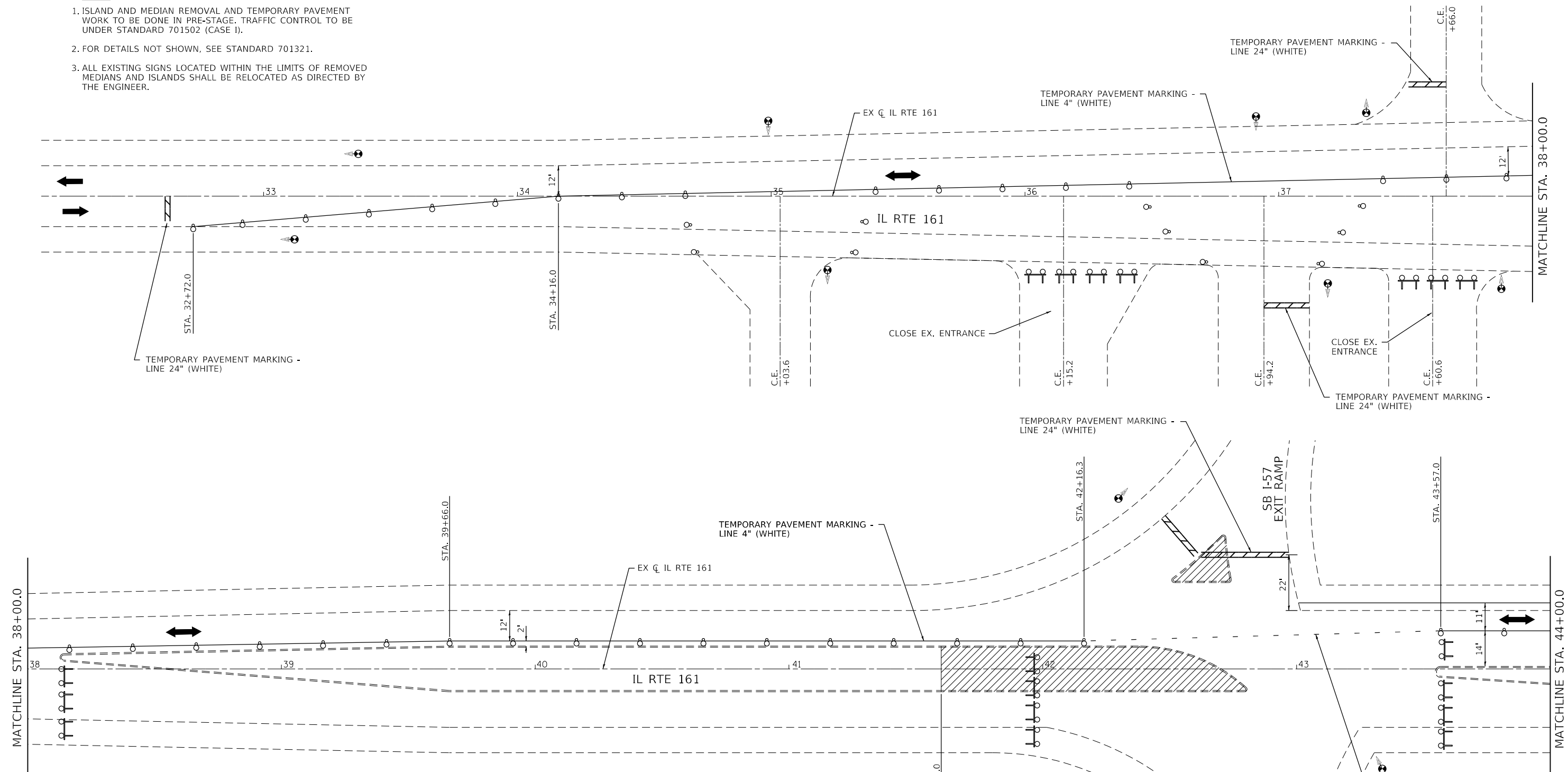
SHEET NO. 6 OF 6 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	157
CONTRACT NO. 76F79				

ILLINOIS FED. AID PROJECT NHPP-KC90(76B)

NOTES

1. ISLAND AND MEDIAN REMOVAL AND TEMPORARY PAVEMENT WORK TO BE DONE IN PRE-STAGE. TRAFFIC CONTROL TO BE UNDER STANDARD 701502 (CASE I).
2. FOR DETAILS NOT SHOWN, SEE STANDARD 701321.
3. ALL EXISTING SIGNS LOCATED WITHIN THE LIMITS OF REMOVED MEDIANS AND ISLANDS SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER.



**LEGEND**

	TEMPORARY CONCRETE BARRIER		HMA SURFACE REMOVAL, 2"
	TRAFFIC SIGNAL WITH SIGNAL DIRECTION		IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 2
	MAINLINE TRAFFIC		TYPE III BARRICADE W/ FLASHING LIGHTS
	STAGE 1 WORK ZONE		DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
	COMBINATION CURB & GUTTER REMOVAL MEDIAN REMOVAL PR HMA BASE COURSE, 12"		

**Farnsworth GROUP**  
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 BLOOMINGTON, ILLINOIS 61704  
 (309) 863-8435 / info@fw.com

USER NAME = rstaley	DESIGNED - JCZ	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - DRR	REVISED -
PLOT DATE = 1/27/2022	CHECKED - EJB	REVISED -
	DATE - 01/26/2022	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION - STAGE 1  
 STRUCTURE NO. 061-0017**  
 SCALE: 1"=20' SHEET 1 OF 8 SHEETS STA. 32+00.0 TO STA. 44+00.0

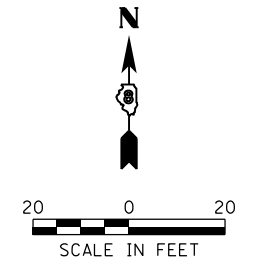
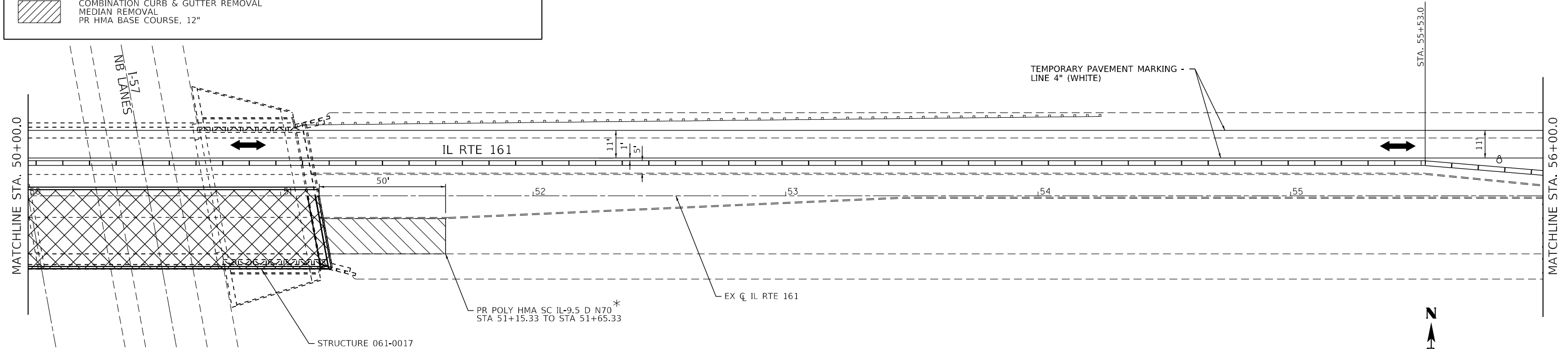
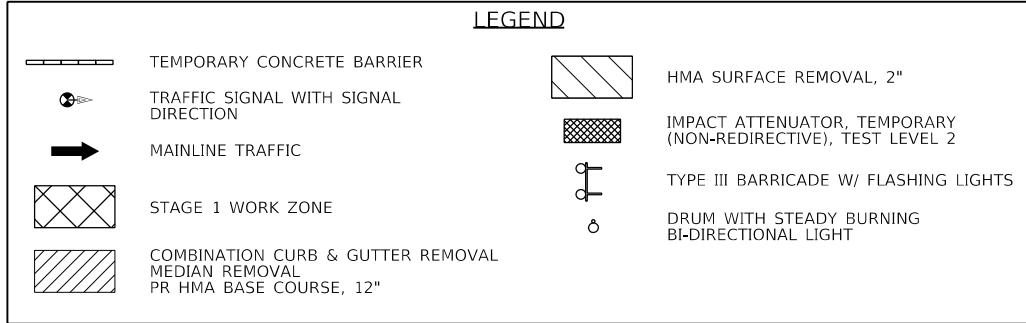
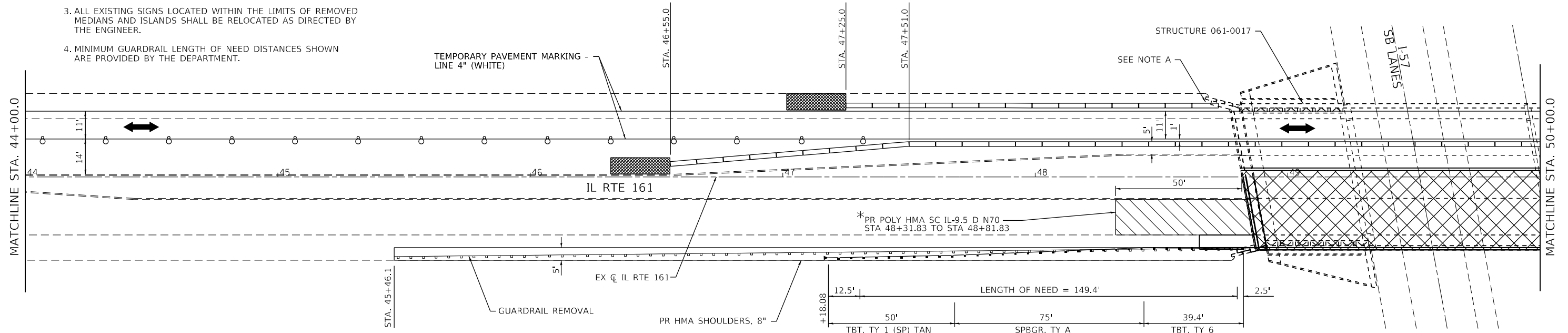
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2) RS-1	MARION	484	158
CONTRACT NO. 76F79				
ILLINOIS FED. AID PROJECT NHPP-KC9017681				

**NOTES**

1. ISLAND AND MEDIAN REMOVAL AND TEMPORARY PAVEMENT WORK TO BE DONE IN PRE-STAGE. TRAFFIC CONTROL TO BE UNDER STANDARD 701502 (CASE I).
2. FOR DETAILS NOT SHOWN, SEE STANDARD 701321.
3. ALL EXISTING SIGNS LOCATED WITHIN THE LIMITS OF REMOVED MEDIANS AND ISLANDS SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER.
4. MINIMUM GUARDRAIL LENGTH OF NEED DISTANCES SHOWN ARE PROVIDED BY THE DEPARTMENT.

\* 5. PROPOSED PAVEMENT MARKINGS SHALL MATCH LOCATION AND COLOR OF EXISTING PAVEMENT MARKINGS WITHIN HMA SURFACING LIMITS.

NOTE A: SEE DETAIL SHEET FOR CONNECTION OF TEMPORARY BARRIER WALL TO EXISTING WINGWALL WITH TRAFFIC BARRIER TERMINAL (SPECIAL)



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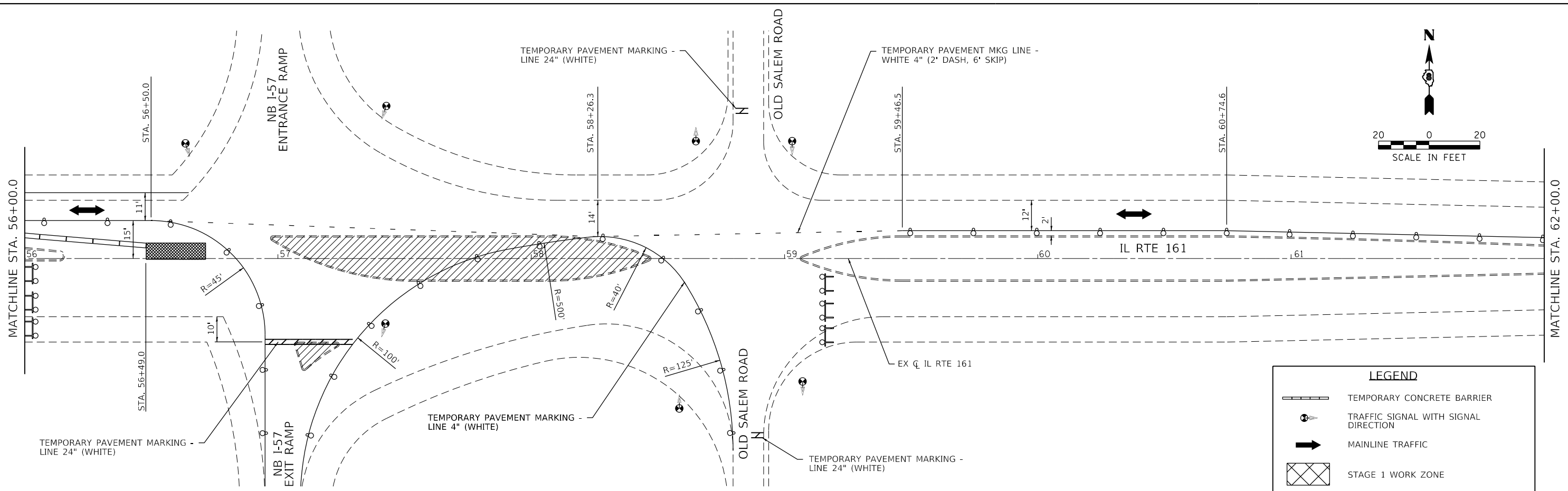
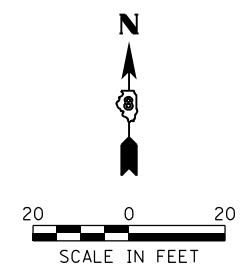
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PLOT SCALE = 40.0000' / in.	DRAWN - DRR	REVISED -
PLOT DATE = 1/27/2022	CHECKED - EJB	REVISED -
	DATE - 01/26/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION - STAGE 1  
STRUCTURE NO. 061-0017**

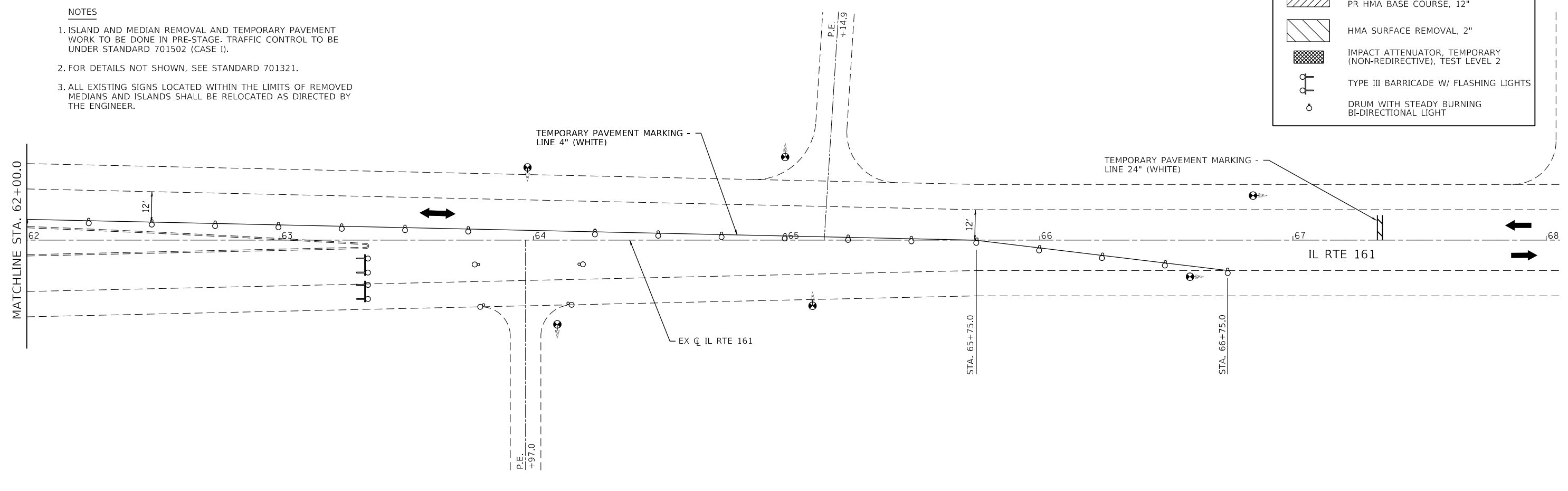
SCALE: 1"=20' SHEET 2 OF 8 SHEETS STA. 44+00.0 TO STA. 56+00.0

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2) RS-1	MARION	484	159
CONTRACT NO. 76F79				
ILLINOIS FED. AID PROJECT NHPP-KC9017681				



- NOTES**
1. ISLAND AND MEDIAN REMOVAL AND TEMPORARY PAVEMENT WORK TO BE DONE IN PRE-STAGE. TRAFFIC CONTROL TO BE UNDER STANDARD 701502 (CASE I).
  2. FOR DETAILS NOT SHOWN, SEE STANDARD 701321.
  3. ALL EXISTING SIGNS LOCATED WITHIN THE LIMITS OF REMOVED MEDIANS AND ISLANDS SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER.

LEGEND	
	TEMPORARY CONCRETE BARRIER
	TRAFFIC SIGNAL WITH SIGNAL DIRECTION
	MAINLINE TRAFFIC
	STAGE 1 WORK ZONE
	COMBINATION CURB & GUTTER REMOVAL MEDIAN REMOVAL PR HMA BASE COURSE, 12"
	HMA SURFACE REMOVAL, 2"
	IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 2
	TYPE III BARRICADE W/ FLASHING LIGHTS
	DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT



**Farnsworth GROUP**  
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BLOOMINGTON, ILLINOIS 61704  
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USER NAME = rstaley	DESIGNED - JCZ	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - DRR	REVISED -
PLOT DATE = 1/27/2022	CHECKED - EJB	REVISED -
	DATE - 01/26/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

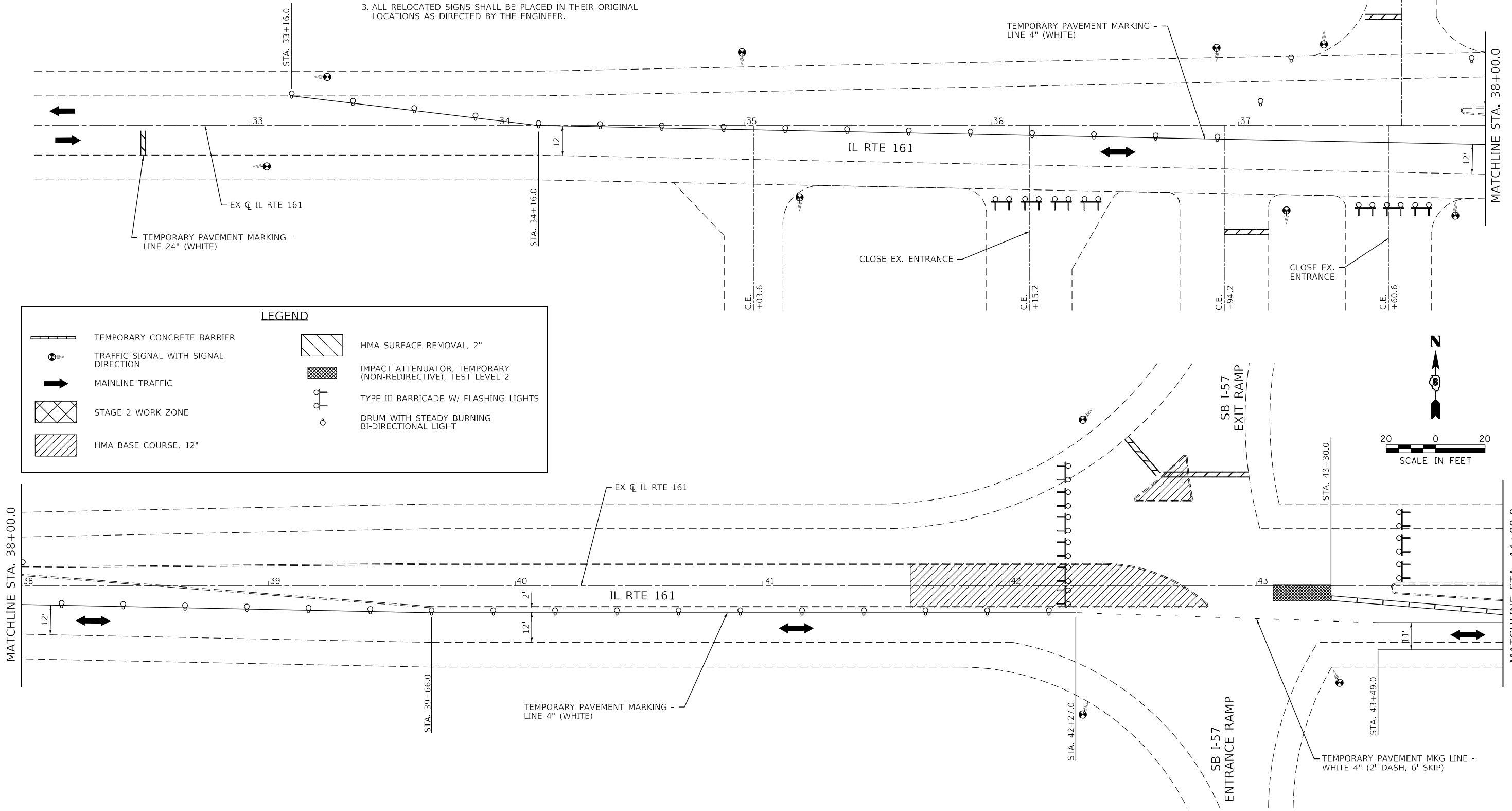
**TRAFFIC CONTROL AND PROTECTION - STAGE 1  
STRUCTURE NO. 061-0017**

SCALE: 1"=20'    SHEET 3 OF 8 SHEETS    STA. 56+00.0 TO STA. 68+00.0

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2) RS-1	MARION	484	160
CONTRACT NO. 76F79				
ILLINOIS FED. AID PROJECT NHPP-KC9017681				

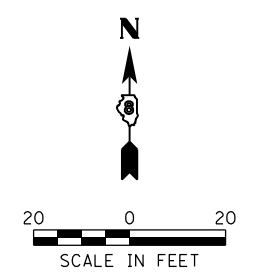
**NOTES**

1. TEMPORARY PAVEMENT REMOVAL AND MEDIAN AND ISLAND REPLACEMENT WORK TO BE DONE IN POST-STAGE. TRAFFIC CONTROL TO BE UNDER STANDARD 701502 (CASE I).
2. FOR DETAILS NOT SHOWN, SEE STANDARD 701321.
3. ALL RELOCATED SIGNS SHALL BE PLACED IN THEIR ORIGINAL LOCATIONS AS DIRECTED BY THE ENGINEER.



**LEGEND**

	TEMPORARY CONCRETE BARRIER		HMA SURFACE REMOVAL, 2"
	TRAFFIC SIGNAL WITH SIGNAL DIRECTION		IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 2
	MAINLINE TRAFFIC		TYPE III BARRICADE W/ FLASHING LIGHTS
	STAGE 2 WORK ZONE		DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
	HMA BASE COURSE, 12"		



**Farnsworth GROUP**  
 2709 McGRAW DRIVE  
 BLOOMINGTON, ILLINOIS 61704  
 (309) 863-8435 / info@fw.com

USER NAME = rstaley	DESIGNED - JCZ	REVISED -
DRAWN - DRR	REVISED -	
PLOT SCALE = 40.0000' / in.	CHECKED - EJB	REVISED -
PLOT DATE = 1/27/2022	DATE - 01/26/2022	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION - STAGE 2  
 STRUCTURE NO. 061-0017**

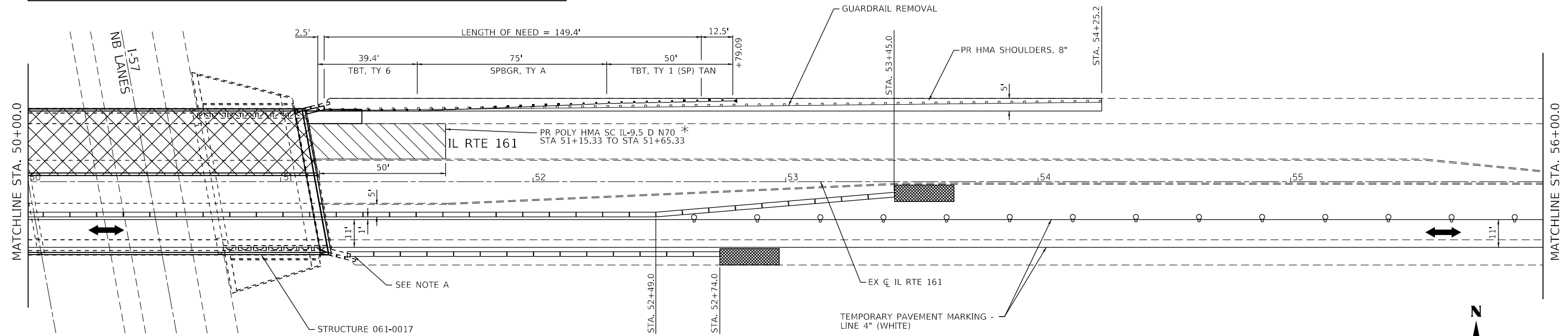
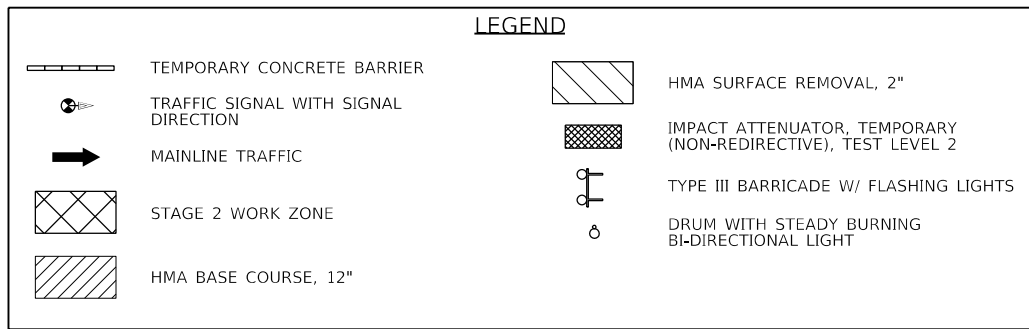
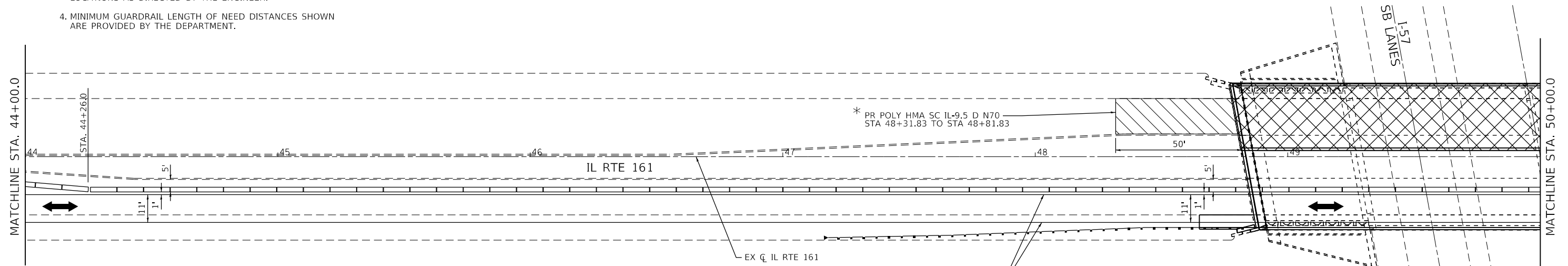
SCALE: 1"=20'    SHEET 4 OF 8 SHEETS    STA. 32+00.0 TO STA. 44+00.0

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2) RS-1	MARION	484	161
CONTRACT NO. 76F79				
ILLINOIS FED. AID PROJECT NHPP-KC9017681				

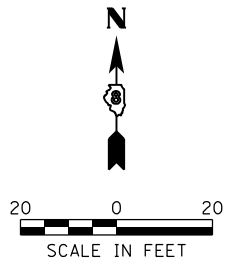
**NOTES**

- TEMPORARY PAVEMENT REMOVAL AND MEDIAN AND ISLAND REPLACEMENT WORK TO BE DONE IN POST-STAGE. TRAFFIC CONTROL TO BE UNDER STANDARD 701502 (CASE I).
- FOR DETAILS NOT SHOWN, SEE STANDARD 701321.
- ALL RELOCATED SIGNS SHALL BE PLACED IN THEIR ORIGINAL LOCATIONS AS DIRECTED BY THE ENGINEER.
- MINIMUM GUARDRAIL LENGTH OF NEED DISTANCES SHOWN ARE PROVIDED BY THE DEPARTMENT.

\* 5. PROPOSED PAVEMENT MARKINGS SHALL MATCH LOCATION AND COLOR OF EXISTING PAVEMENT MARKINGS WITHIN HMA SURFACING LIMITS.



NOTE A: SEE DETAIL SHEET FOR CONNECTION OF TEMPORARY BARRIER WALL TO EXISTING WINGWALL WITH TRAFFIC BARRIER TERMINAL (SPECIAL)



**Farnsworth GROUP**  
2709 McGRAW DRIVE  
BLOOMINGTON, ILLINOIS 61704  
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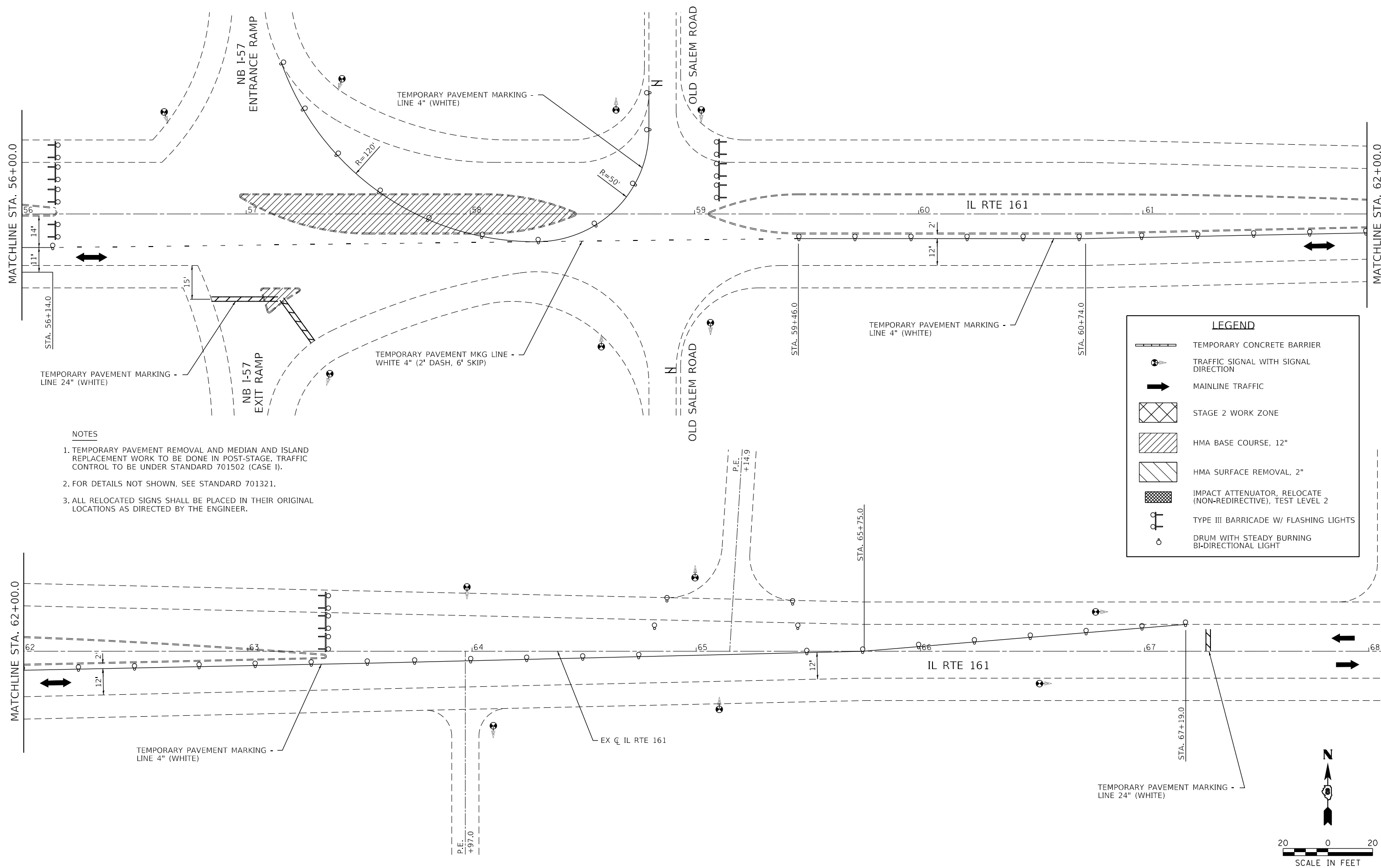
USER NAME = rstaley	DESIGNED - JCZ	REVISED -
	DRAWN - DRR	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - EJB	REVISED -
PLOT DATE = 1/27/2022	DATE - 01/26/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION - STAGE 2  
STRUCTURE NO. 061-0017**

SCALE: 1"=20' SHEET 5 OF 8 SHEETS STA. 44+00.0 TO STA. 56+00.0

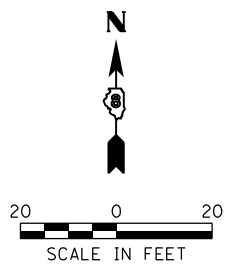
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2) RS-1	MARION	484	162
CONTRACT NO. 76F79				
ILLINOIS FED. AID PROJECT NHP-KC9017681				



- NOTES**
1. TEMPORARY PAVEMENT REMOVAL AND MEDIAN AND ISLAND REPLACEMENT WORK TO BE DONE IN POST-STAGE. TRAFFIC CONTROL TO BE UNDER STANDARD 701502 (CASE I).
  2. FOR DETAILS NOT SHOWN, SEE STANDARD 701321.
  3. ALL RELOCATED SIGNS SHALL BE PLACED IN THEIR ORIGINAL LOCATIONS AS DIRECTED BY THE ENGINEER.

**LEGEND**

- TEMPORARY CONCRETE BARRIER
- TRAFFIC SIGNAL WITH SIGNAL DIRECTION
- MAINLINE TRAFFIC
- STAGE 2 WORK ZONE
- HMA BASE COURSE, 12"
- HMA SURFACE REMOVAL, 2"
- IMPACT ATTENUATOR, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 2
- TYPE III BARRICADE W/ FLASHING LIGHTS
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT



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	DRAWN - DRR	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - EJB	REVISED -
PLOT DATE = 1/27/2022	DATE - 01/26/2022	REVISED -

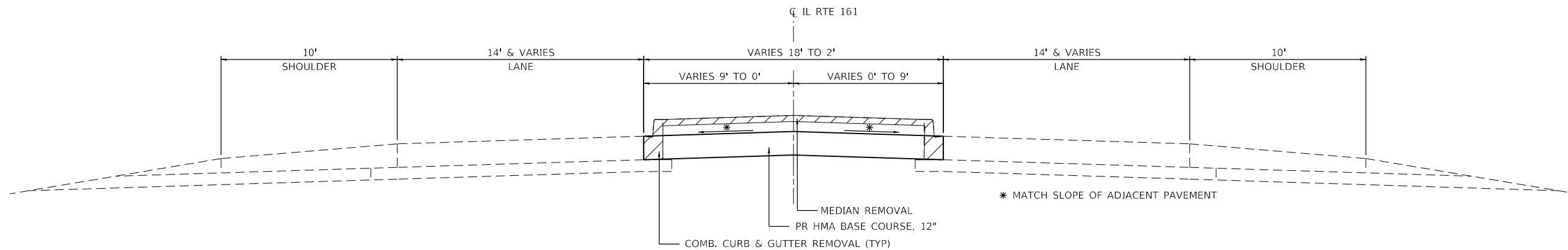
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION - STAGE 2  
 STRUCTURE NO. 061-0017**

SCALE: 1"=20'    SHEET 6 OF 8 SHEETS    STA. 56+00.0 TO STA. 68+00.0

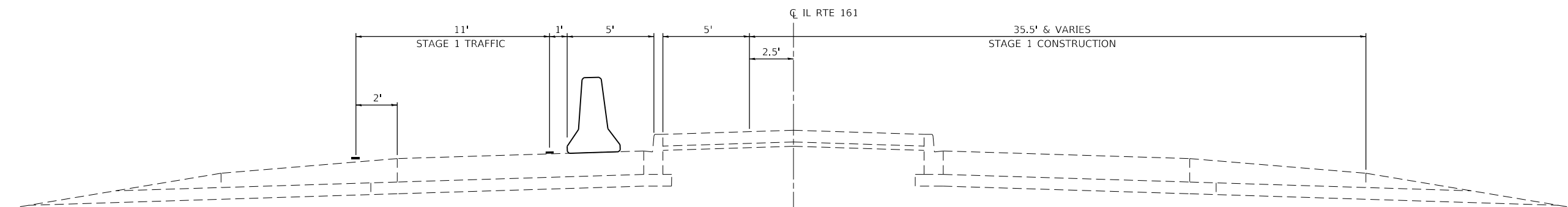
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2) RS-1	MARION	484	163
CONTRACT NO. 76F79				
ILLINOIS FED. AID PROJECT NHPP-KC9017681				





**PRE-STAGE TEMPORARY PAVEMENT TYPICAL CROSS SECTION**

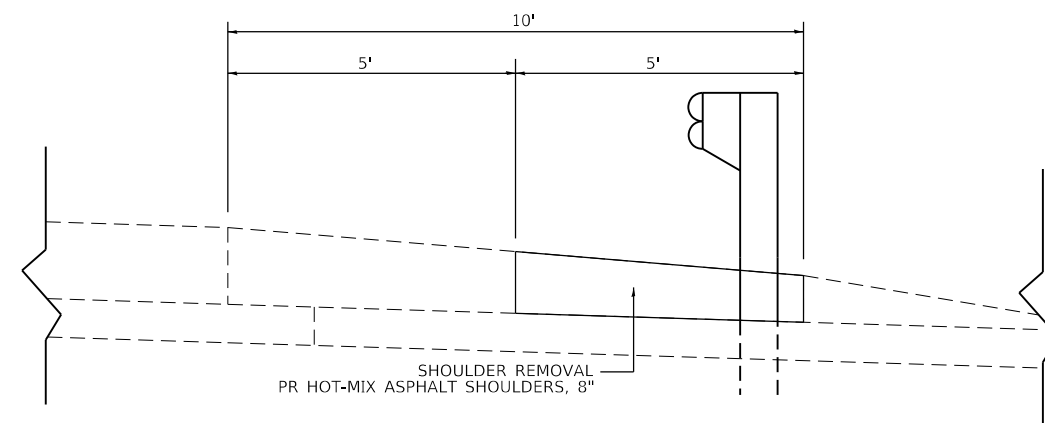
STA 41+60.0 TO STA 42+80.5  
STA 56+97.0 TO STA 58+47.0



**STAGE 1 PROPOSED TYPICAL CROSS SECTION**

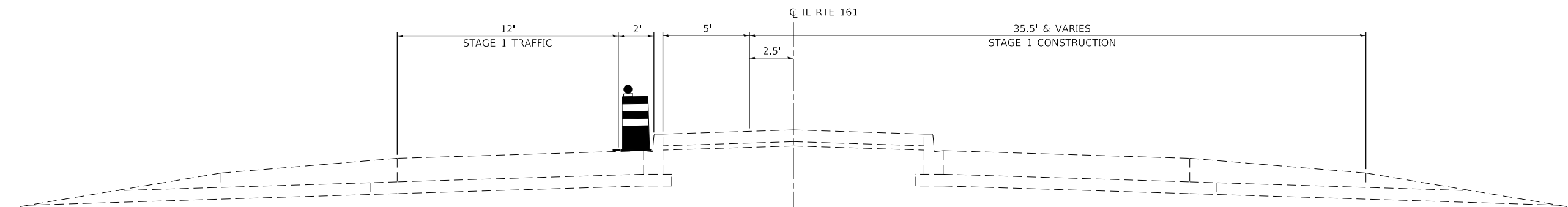
STA 47+51.0 TO STA 55+53.0

BRIDGE OMISSION  
SEE STRUCTURE 061-0017  
STA 48+81.8 TO STA 51+15.3



**PROPOSED GUARDRAIL DETAIL**

GUARDRAIL REMOVAL AND SHOULDER RECONSTRUCTION: STA 45+46.1 TO STA 48+87.5  
PROPOSED GUARDRAIL: STA. 47+18.08 TO STA. 48+82.48

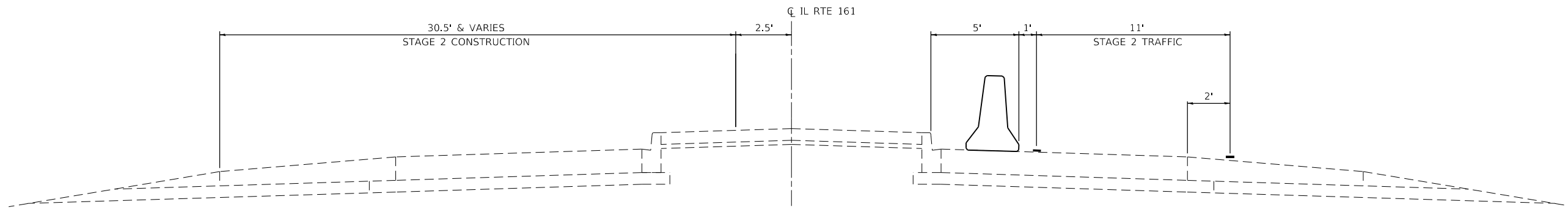


**STAGE 1 PROPOSED TYPICAL CROSS SECTION**

STA 39+66.0 TO STA 41+60.0  
STA 59+46.5 TO STA 63+34.0

USER NAME = rstaley	DESIGNED - JCZ	REVISED -
	DRAWN - DRR	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - EJB	REVISED -
PLOT DATE = 1/27/2022	DATE - 01/26/2022	REVISED -

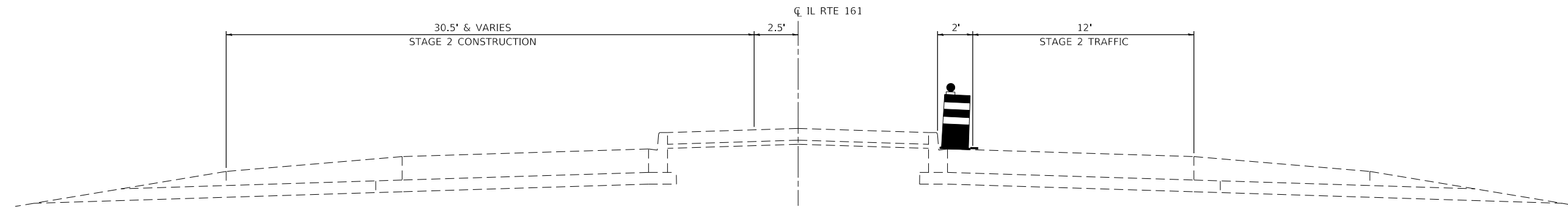
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2) RS-1	MARION	484	164
CONTRACT NO. 76F79				
ILLINOIS FED. AID PROJECT NHPP-KC9017681				



**STAGE 2 PROPOSED TYPICAL CROSS SECTION**

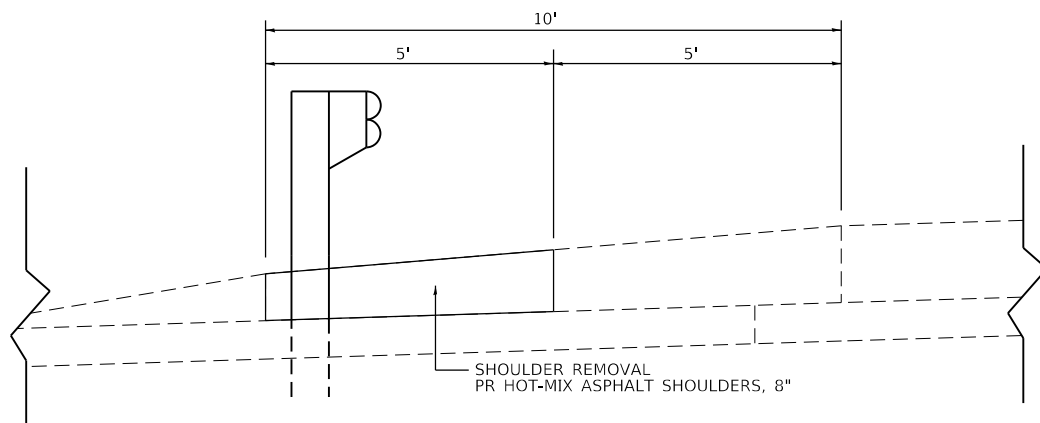
STA 44+26.0 TO STA 52+49.0

BRIDGE OMISSION  
SEE STRUCTURE 061-0017  
STA 48+81.8 TO STA 51+15.3



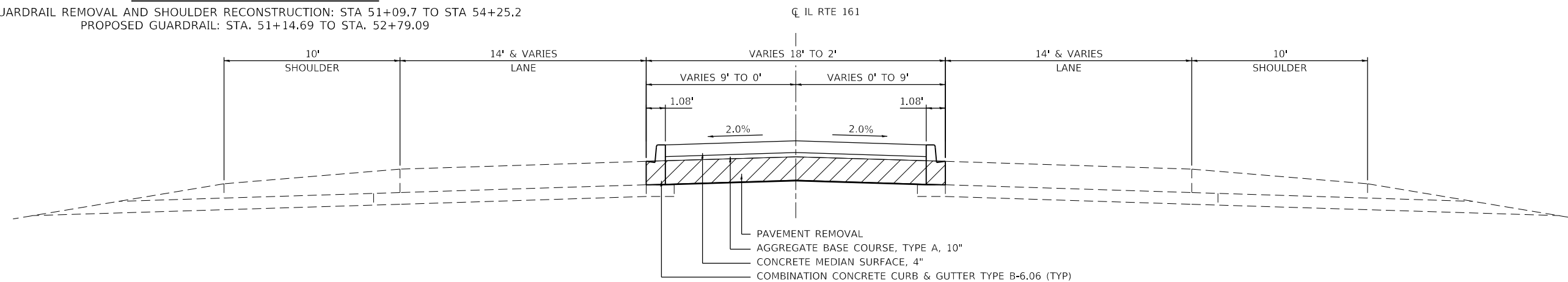
**STAGE 2 PROPOSED TYPICAL CROSS SECTION**

STA 39+66.0 TO STA 41+60.0  
STA 59+46.0 TO STA 63+34.0



**PROPOSED GUARDRAIL DETAIL**

GUARDRAIL REMOVAL AND SHOULDER RECONSTRUCTION: STA 51+09.7 TO STA 54+25.2  
PROPOSED GUARDRAIL: STA. 51+14.69 TO STA. 52+79.09



**POST-STAGE PROPOSED TYPICAL CROSS SECTION**

STA 41+60.0 TO STA 42+80.5  
STA 56+97.0 TO STA 58+47.0

PAVEMENT REMOVAL  
AGGREGATE BASE COURSE, TYPE A, 10"  
CONCRETE MEDIAN SURFACE, 4"  
COMBINATION CONCRETE CURB & GUTTER TYPE B-6.06 (TYP)



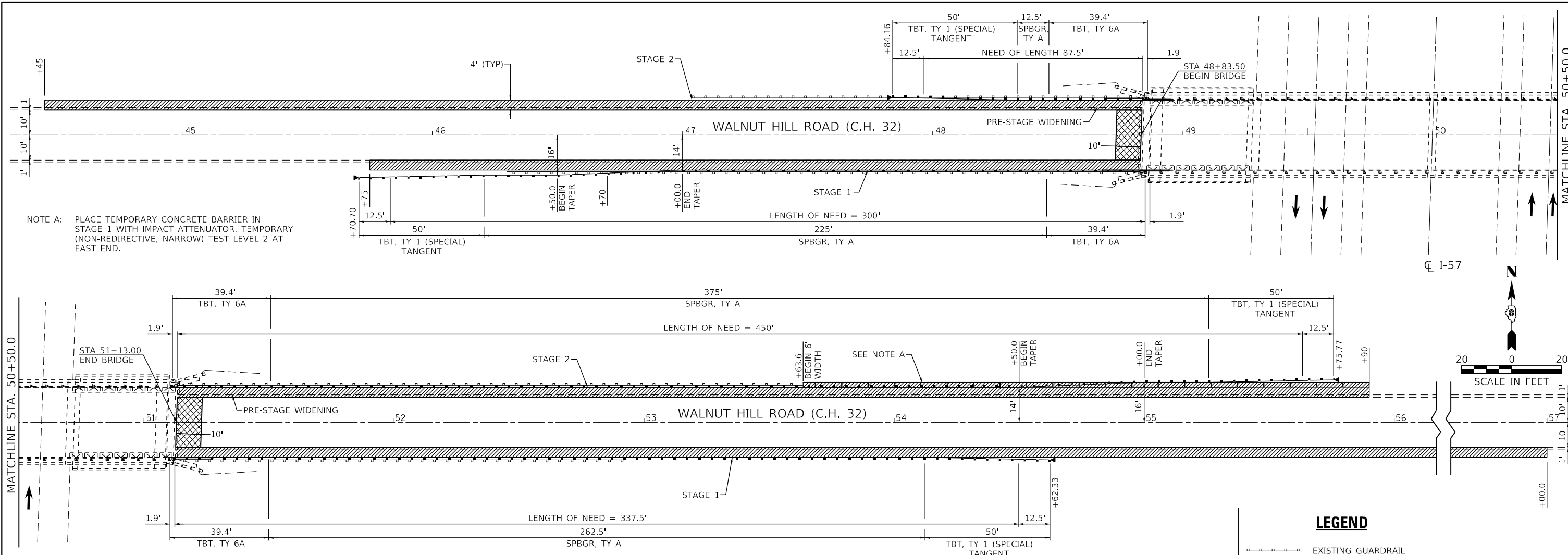
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	DRAWN - DRR	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - EJB	REVISED -
PLOT DATE = 1/27/2022	DATE - 01/26/2022	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION  
STRUCTURE NO. 061-0017

SCALE: N.T.S. SHEET 8 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2) RS-1	MARION	484	165
CONTRACT NO. 76F79				
ILLINOIS FED. AID PROJECT NHPP-KC9017681				

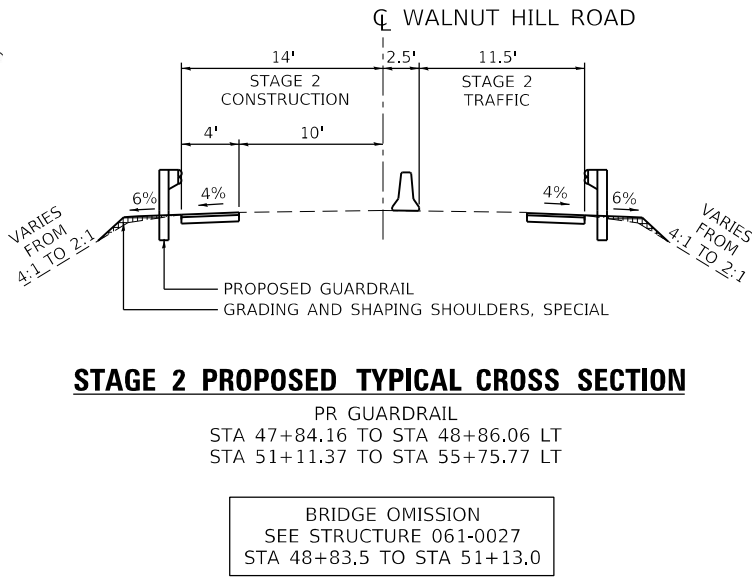
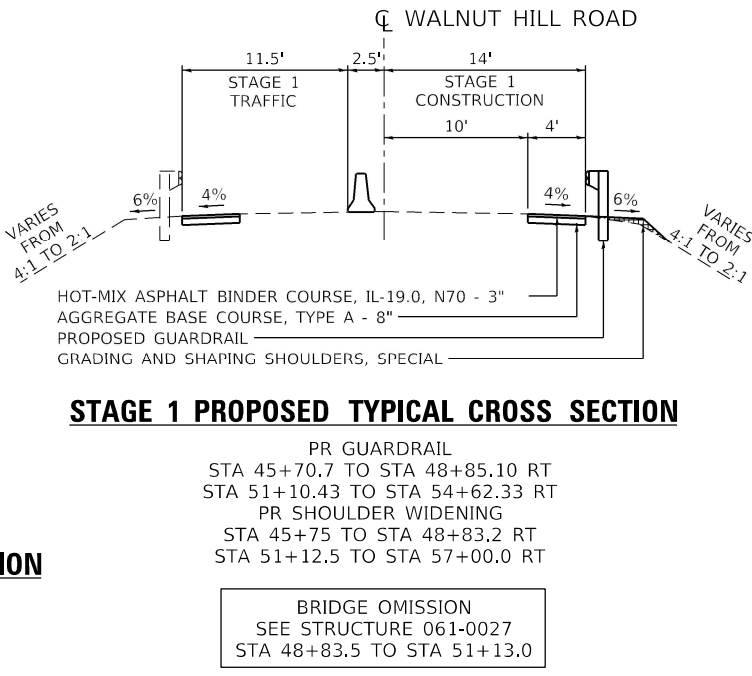
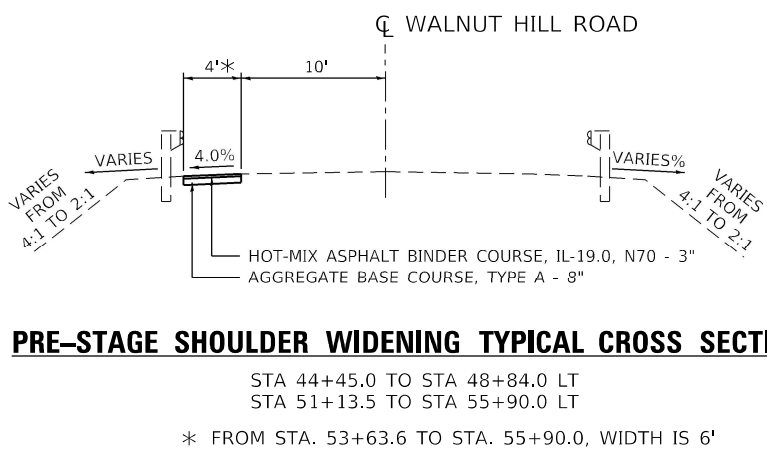


NOTE A: PLACE TEMPORARY CONCRETE BARRIER IN STAGE 1 WITH IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE, NARROW) TEST LEVEL 2 AT EAST END.

**LEGEND**

- EXISTING GUARDRAIL
- PROPOSED GUARDRAIL
- AGGREGATE BASE COURSE, TY A - 8" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70- 3"
- CLASS D PATCH, TYPE II, 6" (SEE STRUCTURAL PLANS)
- GRADING AND SHAPING SHOULDERS, SPECIAL

- PLAN NOTE**
- MINIMUM GUARDRAIL LENGTH OF NEED DISTANCES SHOWN ARE PROVIDED BY THE DEPARTMENT.
  - EXISTING LANE AND SHOULDER WIDTHS SHOWN ARE BASED ON EXISTING PLAN INFORMATION.
- PRE-STAGE**
- CONSTRUCT SHOULDER WIDENING UNDER STANDARD 701201.
- STAGE 1**
- PROVIDE TRAFFIC CONTROL ACCORDING TO STANDARD 701321, WITH THE "WORK AREA" FROM STA 45+70.7 RT TO STA 54+62.33 RT.
  - COMPLETE STAGE 1 CONSTRUCTION FOR ROADWAY AND STRUCTURE NO. 061-0027. COMPLETE CLASS D PATCHES ACCORDING TO DETAIL ON STRUCTURE NO. 061-0027 SHEETS.
  - CONSTRUCT SHOULDER WIDENING FROM STA 54.62.33 RT TO STA 57+00.00 RT UNDER STANDARD 701201.
- STAGE 2**
- RELOCATE TRAFFIC CONTROL FOR STAGE 2 ACCORDING TO STANDARD 701321, WITH THE "WORK AREA" FROM STA 47+96.66 LT TO STA 55+75.77 LT.
  - COMPLETE STAGE 2 CONSTRUCTION FOR ROADWAY AND STRUCTURE NO. 061-0027. COMPLETE CLASS D PATCHES ACCORDING TO DETAIL ON STRUCTURE NO. 061-0027 SHEETS.



**Farnsworth GROUP**  
2709 MCGRAW DRIVE  
BLOOMINGTON, ILLINOIS 61704  
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USER NAME = rstaley	DESIGNED - JCZ	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - DRR	REVISED -
PLOT DATE = 1/27/2022	CHECKED - EJB	REVISED -
	DATE - 01/26/2022	REVISED -

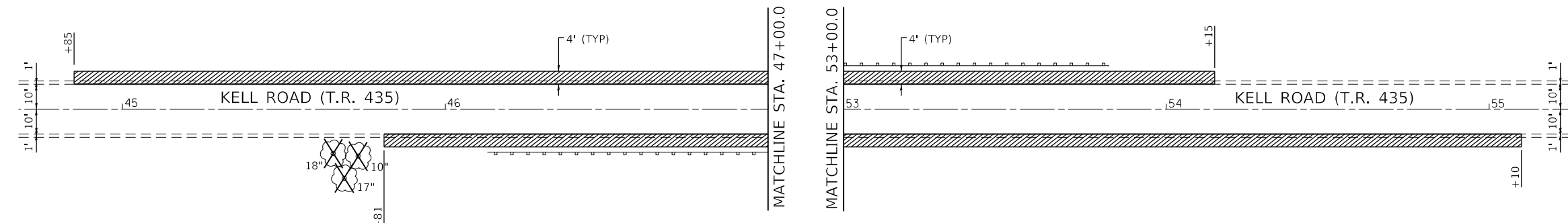
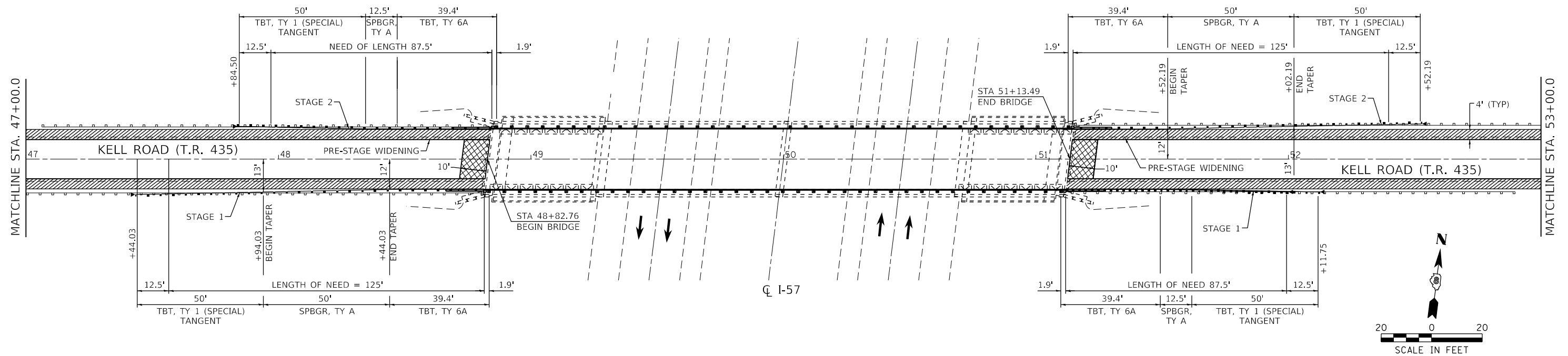
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION  
STRUCTURE NO. 061-0027**

SCALE: 1"=20'

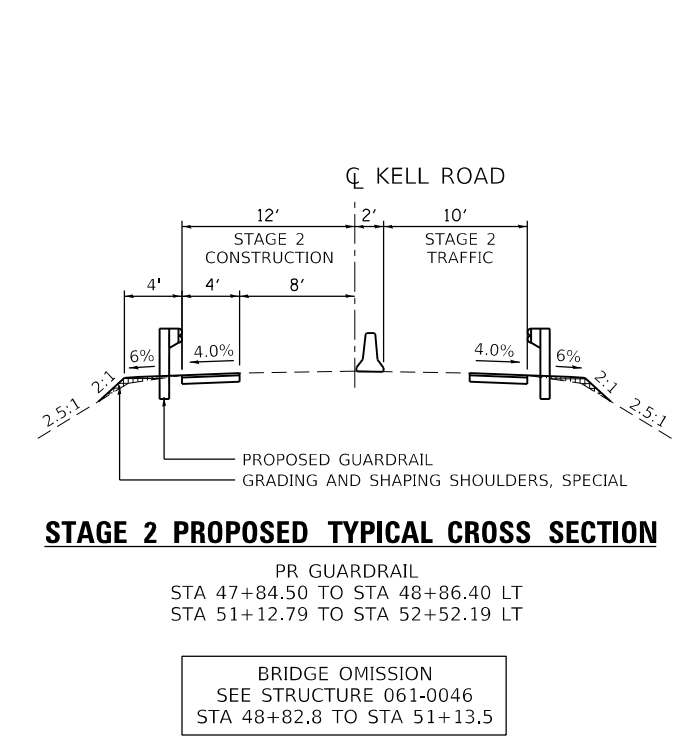
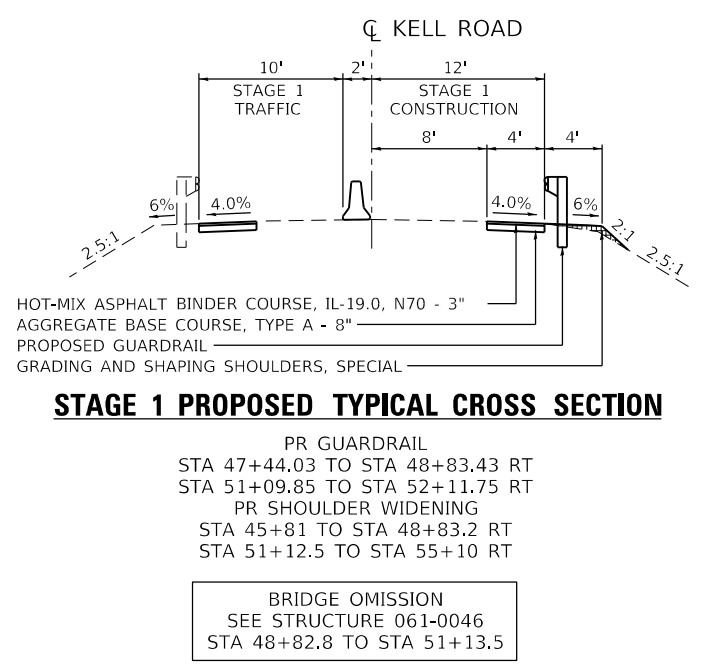
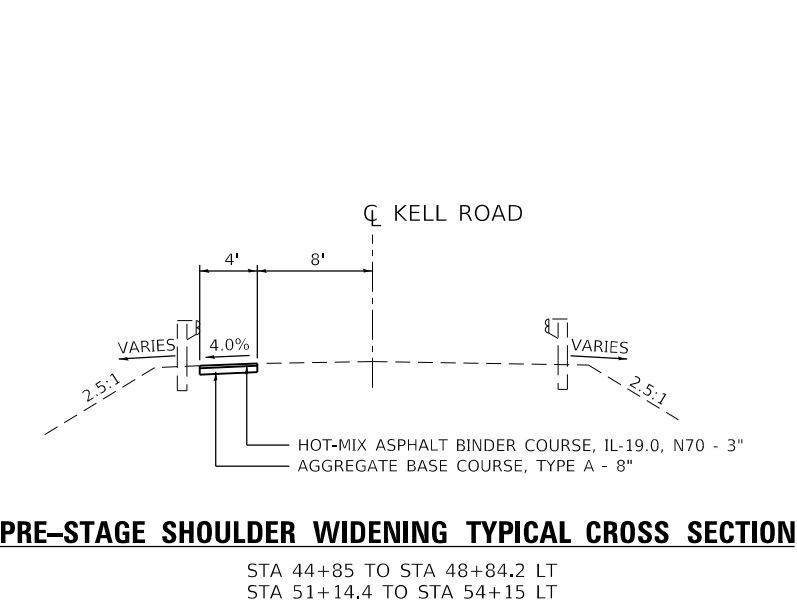
SHEET 1 OF 1 SHEETS STA. 44+45 TO STA. 57+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2) RS-1	MARION	484	166
CONTRACT NO. 76F79				
ILLINOIS FED. AID PROJECT NHP-KC9017681				

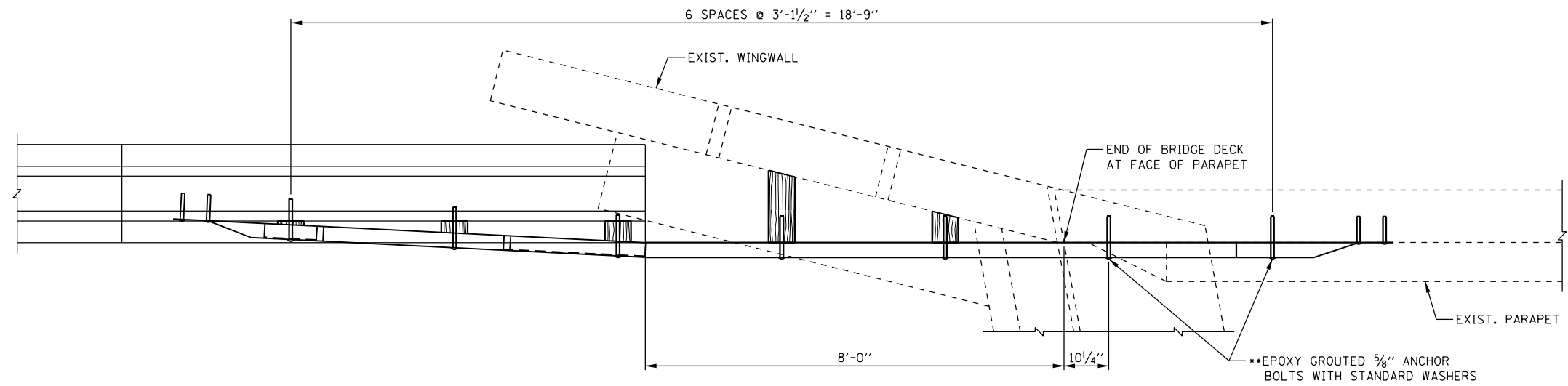


**LEGEND**

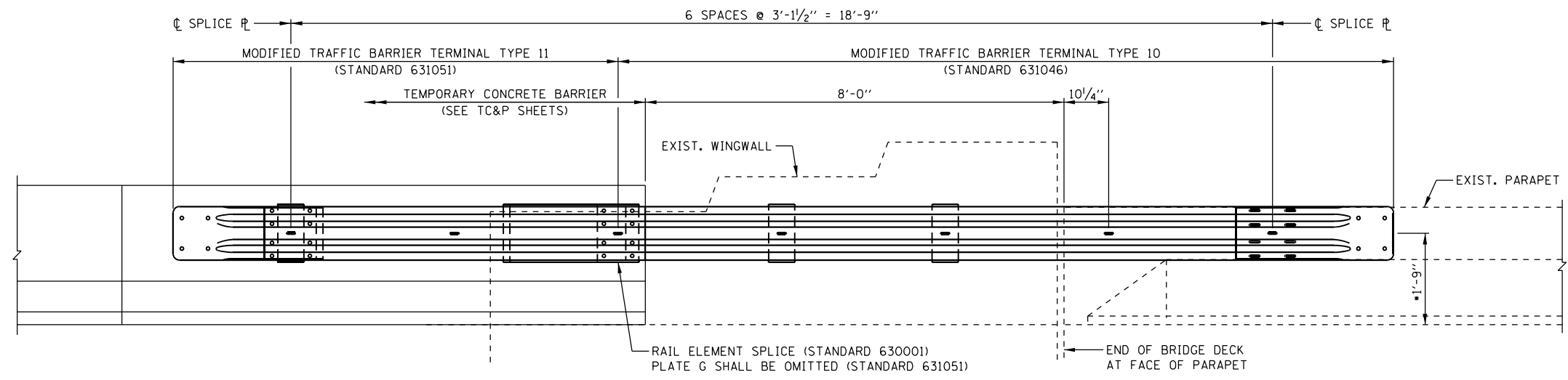
- EXISTING GUARDRAIL
- PROPOSED GUARDRAIL
- AGGREGATE BASE COURSE, TY A - 8" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70- 3"
- CLASS D PATCH, TYPE II, 6" (SEE STRUCTURAL PLANS)
- GRADING AND SHAPING SHOULDERS, SPECIAL



- PLAN NOTE**
- MINIMUM GUARDRAIL LENGTH OF NEED DISTANCES SHOWN ARE PROVIDED BY THE DEPARTMENT.
  - EXISTING LANE AND SHOULDER WIDTHS SHOWN ARE BASED ON EXISTING PLAN INFORMATION.
- PRE-STAGE 1**
- CONSTRUCT SHOULDER WIDENING UNDER STANDARD 701201.
- STAGE 1**
- PROVIDE TRAFFIC CONTROL ACCORDING TO STANDARD 701321, WITH THE "WORK AREA" FROM STA 46+06 RT TO STA 52+90 RT.
  - COMPLETE STAGE 1 CONSTRUCTION FOR ROADWAY AND STRUCTURE NO. 061-0046.
  - CONSTRUCT SHOULDER WIDENING FROM STA 52+90 RT TO STA 55+10 RT UNDER STANDARD 701201.
- STAGE 2**
- RELOCATE TRAFFIC CONTROL FOR STAGE 2 ACCORDING TO STANDARD 701321, WITH THE "WORK AREA" FROM STA 47+06 LT TO STA 53+85 LT.
  - COMPLETE STAGE 2 CONSTRUCTION FOR ROADWAY AND STRUCTURE NO. 061-0046.
- STAGE 3**
- COMPLETE CLASS D PATCHES ACCORDING TO DETAIL ON STRUCTURE NO. 061-0046 SHEETS. CLASS D PATCHES SHALL BE CONSTRUCTED ONE LANE AT A TIME UNDER STANDARD 701201.



**PLAN**  
(NORTHWEST & SOUTHEAST WINGWALLS ONLY)



**ELEVATION**  
(NORTHWEST & SOUTHEAST WINGWALLS ONLY)

**ELEVATION**

- 1.) INSTALL THE MODIFIED TRAFFIC BARRIER TERMINALS TYPE 10 AND 11 ACCORDING TO THEIR RESPECTIVE HIGHWAY STANDARDS, UNLESS OTHERWISE NOTED.
- 2.) THIS DETAIL IS FOR TEMPORARY USE DURING STAGE TRAFFIC CONTROL AND SHALL BE REMOVED AFTER IT IS NO LONGER REQUIRED. SEE TRAFFIC CONTROL & PROTECTION SHEETS AND THE SPECIAL PROVISIONS.
- 3.) •TO BE VERIFIED IN THE FIELD.
- 4.) ••AFTER TIGHTENING, CUT THE ANCHOR BOLTS FLUSH WITH NUTS, AND DAMAGE THE BOLT HEAD TO PREVENT IT FROM LOOSENING.



USER NAME = vtabar	DESIGNED - JCZ	REVISED -
	DRAWN - DJM	REVISED -
PLOT SCALE = 2.6667' / 1"	CHECKED - JCZ	REVISED -
PLOT DATE = 1/27/2022	DATE - 01/26/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC BARRIER TERMINAL (SPECIAL)  
STRUCTURE NO. 061-0017**

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

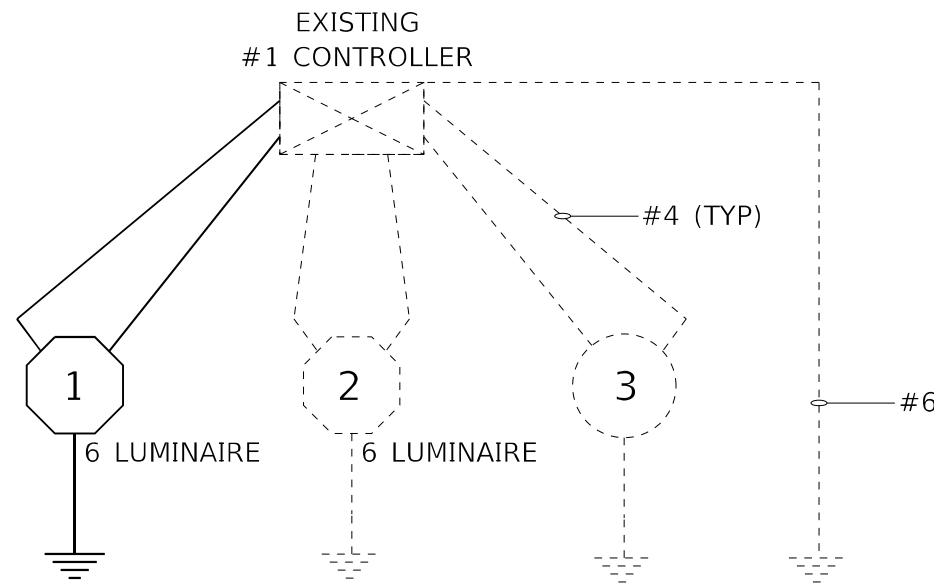
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2) RS-1	MARION	484	168
CONTRACT NO. 76F79				
ILLINOIS FED. AID PROJECT NHPP-KC901769				

### GENERAL NOTES

- 1 THIS PROJECT INCLUDES THE INSTALLATION OF NEW LIGHTING COMPONENTS THE INTERCHANGE OF I-57 AND IL-161. PROPOSED LIGHTING SHALL BE OWNED AND MAINTAINED BY THE STATE OF ILLINOIS.
- 2 THE CONTRACTOR SHALL CONTACT THE LOCAL ELECTRIC UTILITY COMPANY TO COORDINATE THE ELECTRICAL SERVICE CONSTRUCTION
- 3 THE QUANTITIES OF RACEWAY WHERE INDICATED ON THESE PLANS ARE APPROXIMATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL LENGTHS AND SHALL INSTALL RACEWAYS IN COMPLETE COMPLIANCE WITH THE SPECIFIED REQUIREMENTS.
- 4 THE CONTRACTOR SHALL NOTIFY J.U.L.I.E TO LOCATE AND MARK/STAKE ALL UNDERGROUND UTILITIES.
- 5 THE CONTRACTOR SHALL VERIFY LOCATIONS OF UNDERGROUND/OVERHEAD UTILITIES PRIOR TO INSTALLATION OF LIGHT POLES AND CONDUITS. IF THERE IS ANY CONFLICT WITH THE LIGHT POLES/CONDUITS AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL SUGGEST THE ALTERNATIVE LOCATIONS AND COORDINATE WITH THE ENGINEER PRIOR TO PERFORMING CONSTRUCTION WORK.
- 6 TRENCHES FOR LIGHTING RACEWAYS SHALL HAVE A MINIMUM DEPTH OF 30".
- 7 LIGHTING SYSTEM INSTALLATION SHALL CONFORM TO THE LATEST IDOT STANDARDS, NES AND LOCAL CODES.
- 8 ALL ELECTRICAL EQUIPEMENT AND PRODUCTS SHALL BE U/L LISTED AND LABELED.
- 9 THE CONTRACTOR SHALL TAKE CARE WHEN INSTALLING UNIT DUCT TO AVOID CONFLICTS WITH EXISTING UNDERGROUND UTILITIES, TREES AND ROOTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE AS DETERMINED BY THE ENGINEER.
- 10 THE CONTRACTOR SHALL TAKE CARE WHEN INSTALLING LIGHT POLE FOUNDATIONS TO AVOID CONFLICTS WITH UNDERGROUND UTILITIES. WHEN CONFLICTS ARE ECOUNTERED, THE CONTRACTOR SHALL REQUEST TO RELOCATE THE FOUNDATION. THE NEW LOCATION SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
- 11 GROUNDING RODS SHALL BE INSTALLED AT EACH LIGHTING UNIT.

### HIGHWAY STANDARDS

821101-02	LUMINAIRE WIRING IN POLE
835001-01	LIGHT TOWER
837001-05	LIGHT TOWER FOUNDATION



LIGHTING			
ITEM	DESCRIPTION	UNIT	QUANTITY
81603032	UNIT DUCT, 600V, 2-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	2895
82110017	LUMINAIRE LED, HIGHMAST, OUTPUT DESIGNATION J	EACH	8
83505300	LIGHT TOWER, 130 FT. MOUNTING HEIGHT, LUMINAIRE MT. - 4	EACH	2
83700350	LIGHT TOWER FOUNDATION, 54" DIAMETER	FOOT	53
X1400273	REMOVAL OF EXISTING TOWER LUMINAIRE, NO SALVAGE	EACH	12
X8420502	REMOVAL OF LIGHT TOWER, NO SALVAGE	EACH	2
X8420510	REMOVAL OF TOWER FOUNDATION	EACH	2



### Luminaire Performance Table

**Project**  
 Date: 01/24/22 Contract Number: 76F79 Section Number: 61-(1,1-1,1-2,2)RS-1 County: Marion  
 Marked Route Number: Interstate 57 Municipality: N/A

**Roadway**  
 Lane Width: 12 # of Lanes: 2 Median Width: 70 I.E.S. Surface Classification: R3 Q-Zero Value: .07

**Structure**  
 Mounting Height: 130 FT. Arm Length: 1 FT. Set-Back: 55 FT. Number of Luminaires: 4

**Luminaire**  
 Description: Highmast, Output Designation J I.E.S. Lateral Distribution: Type III I.E.S. Vertical Distribution: Medium  
 Total Light Loss Factor (LLF): .7 B-U-G Rating: U=0 Shields: None Dimming Protocol: 0-10V

**Layout**  
 Spacing (to Nearest 5 ft): 770 Configuration (Opposite, Staggered, 1 Sided, or Median): 1 Sided

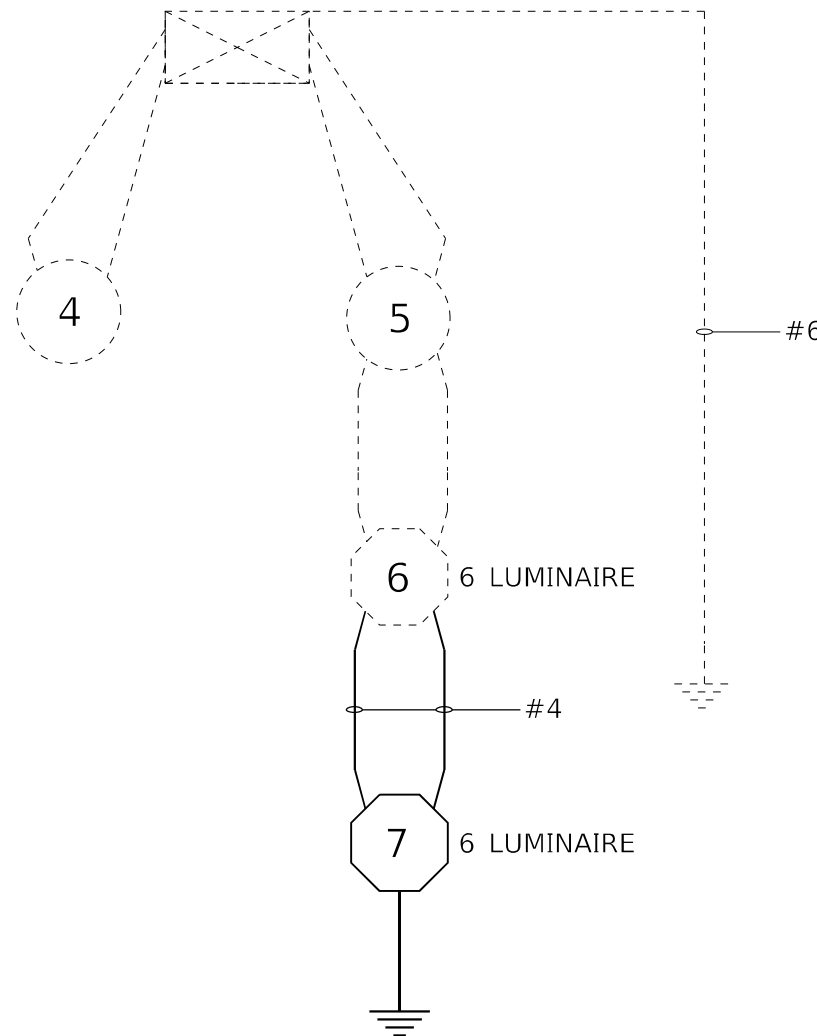
**Performance**  
 Average Illuminance,  $E_{AVE}$  (fc): 9 Uniformity Ratio,  $E_{AVE}/E_{MIN}$ : 3:1  
 Average Luminance,  $L_{AVE}$  (cd/m<sup>2</sup>): N/A Uniformity Ratio,  $L_{AVE}/L_{MIN}$ : N/A Veiling Luminance Ratio,  $L_{V}/L_{AVE}$ : N/A

**Light Trespass**  
 Distance to ROW (behind pole): N/A Max. Horizontal Illuminance at ROW,  $E_H$ : N/A Max. Vertical Illuminance at ROW,  $E_V$ : N/A

- Notes**
1. Set-Back is from Edge of Pavement (white line) except for sign luminaires when it is vertical and horizontal distance from the sign to the luminaire.
  2. Lighting calculations shall be performed with all luminaires oriented toward and perpendicular to the roadway.
  3. Total Light Loss Factor (LLF) = the product of "Lumen Maintenance" (LLM) = 0.9, "Dirt Depreciation" (LDD) = 0.8, and "Equipment Factors" (EF) = 0.95
  4. Performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.
- a. Compliance with performance criteria shall be held to one significant digit.  
 b. Initial lumens of the proposed luminaire may vary from the values specified in the table given in Article 1067.06 of the BDE Special Provision for Luminaire, LED.  
 c. Photometric calculations are to be performed in one direction only.

Printed 02/28/22 BDE 5630 (04/10/19)

### EXISTING #2 CONTROLLER



### LEGEND

- |     |                      |     |                      |
|-----|----------------------|-----|----------------------|
| #6  | EXISTING WIRE GAUGE  | #4  | PROPOSED WIRE GAUGE  |
| (X) | EXISTING LIGHT TOWER | (X) | PROPOSED LIGHT TOWER |
| --- | EXISTING WIRING      | --- | PROPOSED WIRING      |
| ⏚   | EXISTING GROUND      | ⏚   | PROPOSED GROUND      |
| (X) | EXISTING LIGHT POLE  |     |                      |
| (X) | EXISTING CONTROLLER  |     |                      |

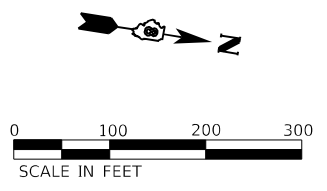
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 USER NAME = bschm  
 DESIGNED -  
 DRAWN -  
 PLOT SCALE = 2,0000' / in.  
 CHECKED -  
 PLOT DATE = 3/3/2022  
 REVISED -  
 REVISED -  
 REVISED -  
 REVISED -  
 DATE -  
 REVISED -



STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

LIGHTING GENERAL NOTES  
 I-57 AT IL 161

SCALE: NTS	SHEET 1 OF 3 SHEETS	STA. TO STA.	F.A.J. RTE. 57	SECTION 61-(1,1-1,1-2,2)RS-1	COUNTY MARION	TOTAL SHEETS 484	SHEET NO. 169
						CONTRACT NO. 76F79	
ILLINOIS FED. AID PROJECT							



- 1 - REMOVAL OF LIGHT TOWER, NO SALVAGE
- 6 - REMOVAL OF EXISTING TOWER LUMINAIRE, NO SALVAGE
- 1 - REMOVAL OF TOWER FOUNDATION

EXISTING HIGH MAST LIGHT TOWER TO REMAIN IN PLACE

EXISTING CONTROLLER

EXISTING HIGH MAST LIGHT TOWER TO REMAIN IN PLACE

- 1 - REMOVAL OF LIGHT TOWER, NO SALVAGE
- 6 - REMOVAL OF EXISTING TOWER LUMINAIRE, NO SALVAGE
- 1 - REMOVAL OF TOWER FOUNDATION

**NOTES**

EXISTING LIGHTING TO REMAIN FULLY FUNCTIONAL UNTIL PROPOSED LIGHTING IS FUNCTIONAL.

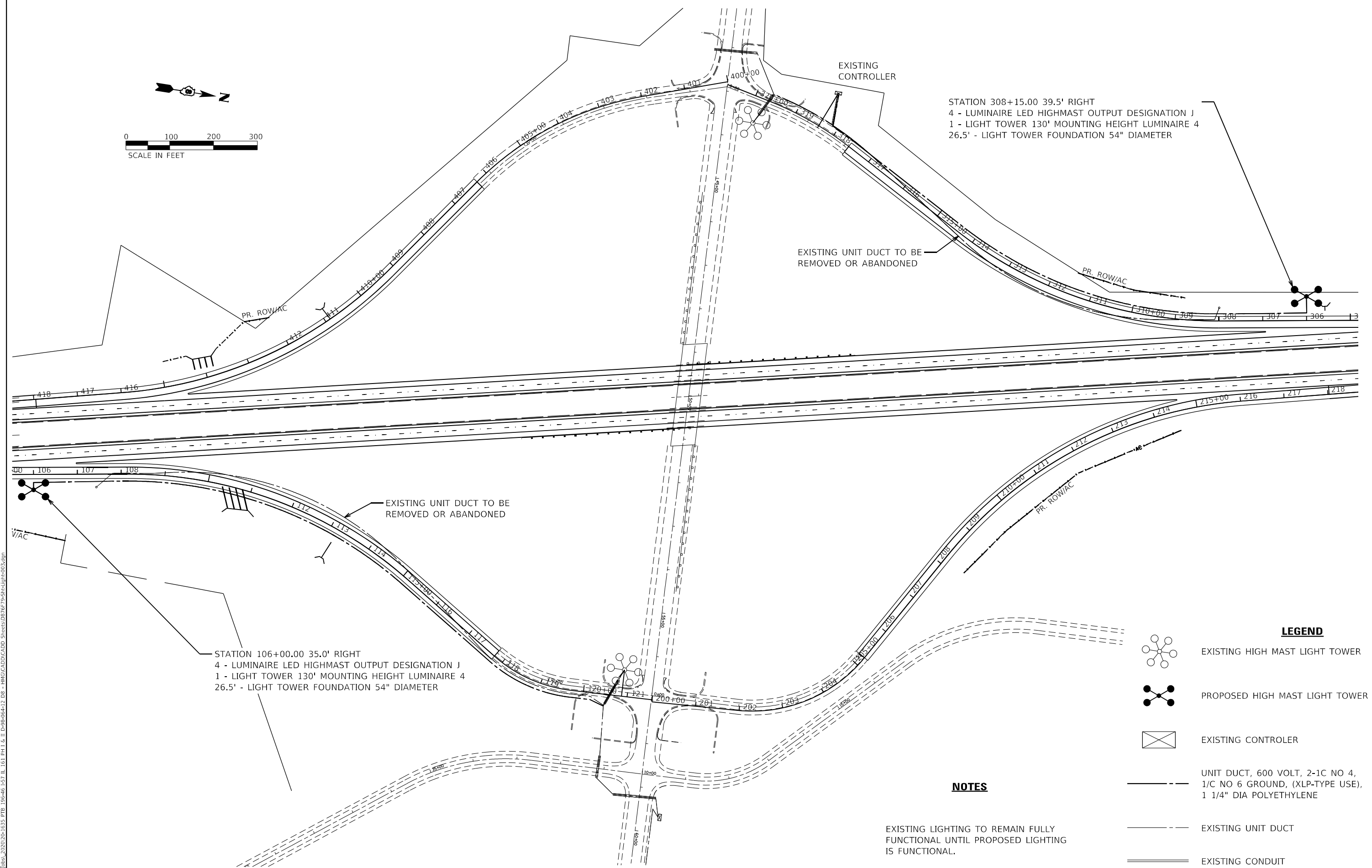
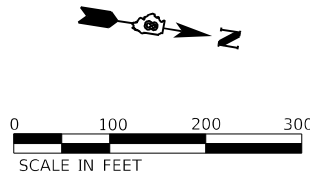
**LEGEND**

- EXISTING HIGH MAST LIGHT TOWER
- EXISTING CONTROLLER
- EXISTING UNIT DUCT
- EXISTING CONDUIT

MODEL: FILE NAME: C:\FUE\1202\2022\1635\_PTB\_39646\_157\_IL\_161\_P41.dwg; I:\D-98-064-12 DB - HHC\CD\CD\CD\_Sheets\0816679-5H-1\Lighting\002.dwg

USER NAME = untitled	DESIGNED -	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 2/16/2022	CHECKED -	REVISED -
	DATE -	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	170
				CONTRACT NO. 76F79
ILLINOIS FED. AID PROJECT				



STATION 308+15.00 39.5' RIGHT  
 4 - LUMINAIRE LED HIGHMAST OUTPUT DESIGNATION J  
 1 - LIGHT TOWER 130' MOUNTING HEIGHT LUMINAIRE 4  
 26.5' - LIGHT TOWER FOUNDATION 54" DIAMETER

STATION 106+00.00 35.0' RIGHT  
 4 - LUMINAIRE LED HIGHMAST OUTPUT DESIGNATION J  
 1 - LIGHT TOWER 130' MOUNTING HEIGHT LUMINAIRE 4  
 26.5' - LIGHT TOWER FOUNDATION 54" DIAMETER

- LEGEND**
- EXISTING HIGH MAST LIGHT TOWER
  - PROPOSED HIGH MAST LIGHT TOWER
  - EXISTING CONTROLLER
  - UNIT DUCT, 600 VOLT, 2-1C NO 4, 1/C NO 6 GROUND, (XLP-TYPE USE), 1 1/4" DIA POLYETHYLENE
  - EXISTING UNIT DUCT
  - EXISTING CONDUIT

**NOTES**

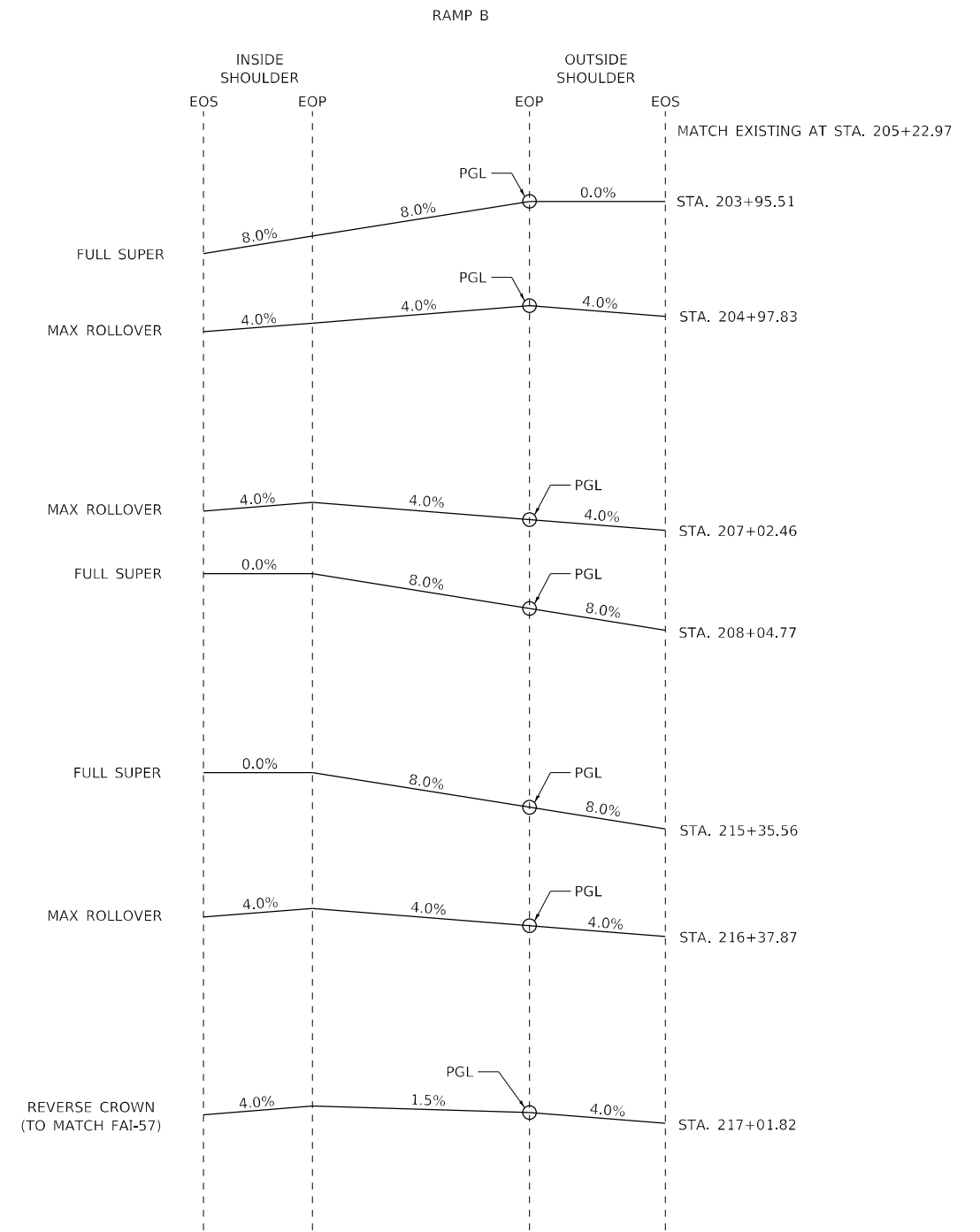
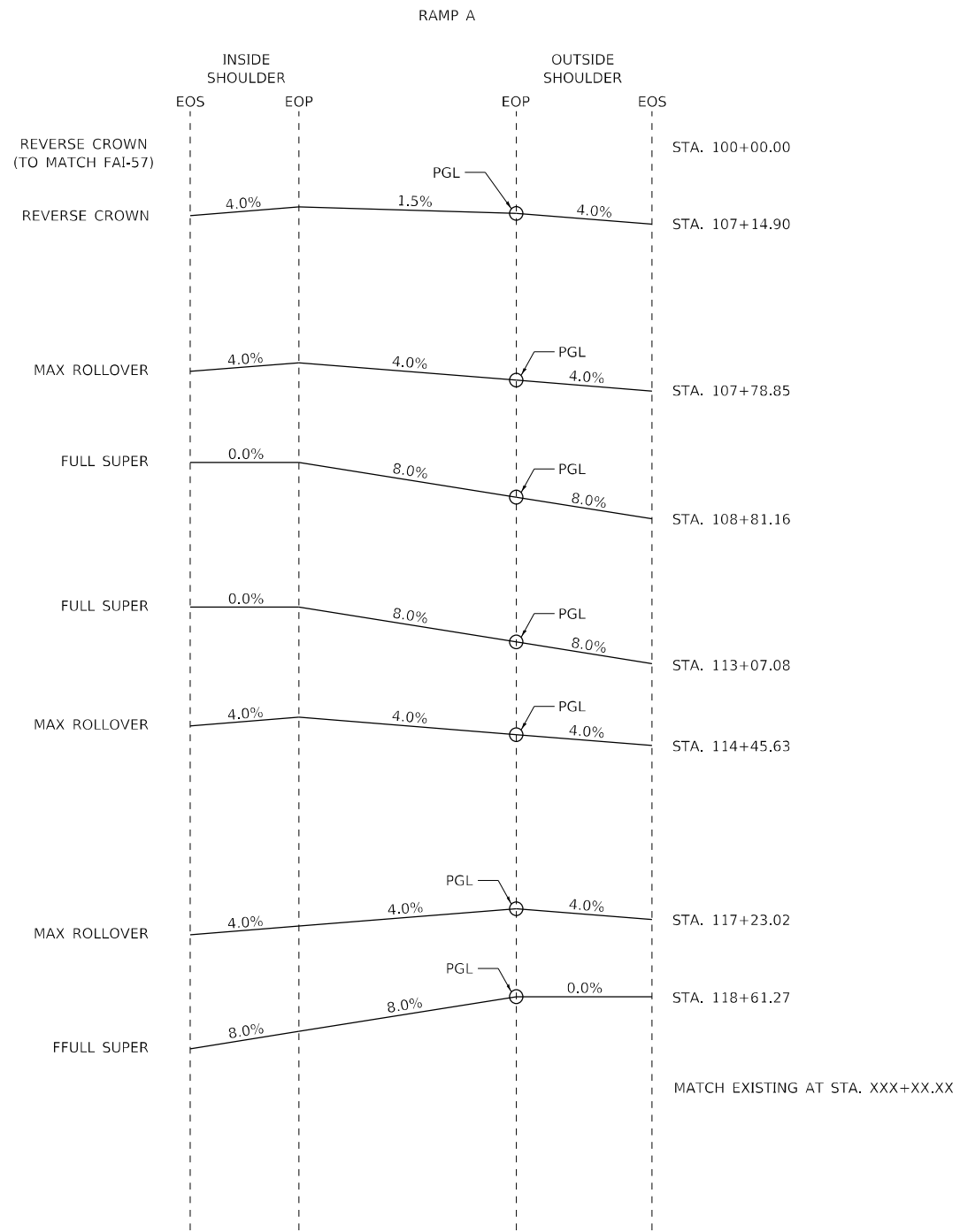
EXISTING LIGHTING TO REMAIN FULLY FUNCTIONAL UNTIL PROPOSED LIGHTING IS FUNCTIONAL.

MODEL: FILE NAME: C:\EIT\2022\2022-06-15\11\_161\_P11.dwg - H:\G\CADD\CADD\_Sheets\037679-57-11-161-003.dwg  
 PTB 396-46-157 IL 161 P11.dwg

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PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 2/16/2022	CHECKED -	REVISED -
	DATE -	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	171
				CONTRACT NO. 76F79
ILLINOIS FED. AID PROJECT				





MODEL: Default  
 FILE NAME: 0303131\_IDOT\_DB\_157CAD\_Sheets10816F79-ent-Detail\_SETransition.dgn

**HMG** HMG ENGINEERS, INC.  
 9360 HOLY CROSS LANE  
 BREESE, ILLINOIS 62230  
 Engineers + Surveyors (618) 526-9611  
 IL PROF. DESIGN FIRM NO. 184.000899

USER NAME =	mobrien
PLOT SCALE =	100,0000' / in.
PLOT DATE =	2/16/2022

DESIGNED -	M.OBRIEN
DRAWN -	M.OBRIEN
CHECKED -	
DATE -	

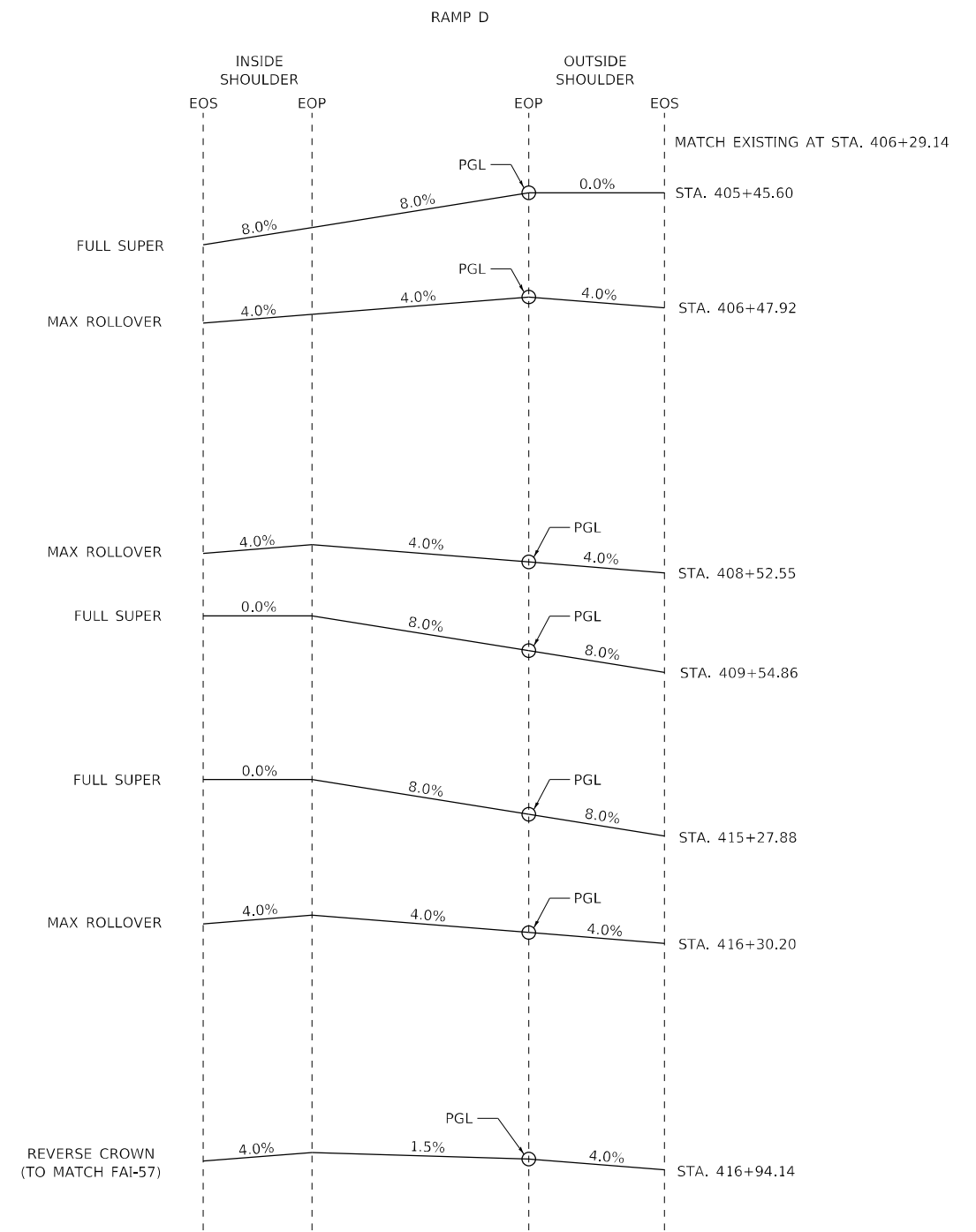
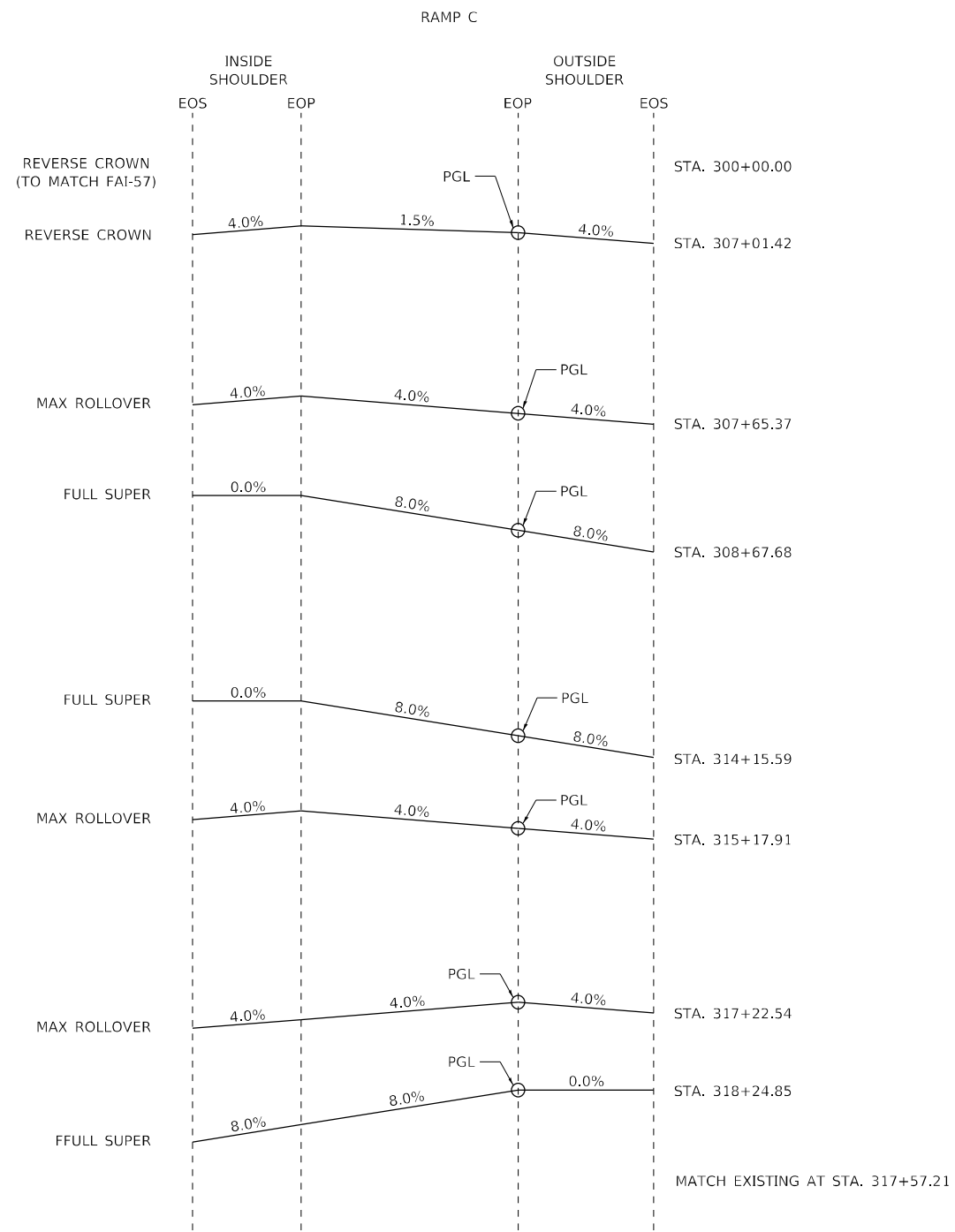
REVISED -	
REVISED -	
REVISED -	
REVISED -	

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SUPERELEVATION**  
**DETAILS**

SCALE: N.T.S.    SHEET 1    OF 2    SHEETS    STA.    TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	172
CONTRACT NO. 76F79				
ILLINOIS   FED. AID PROJECT   NHPP-KC9D(768)				

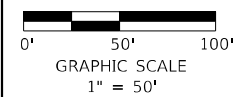
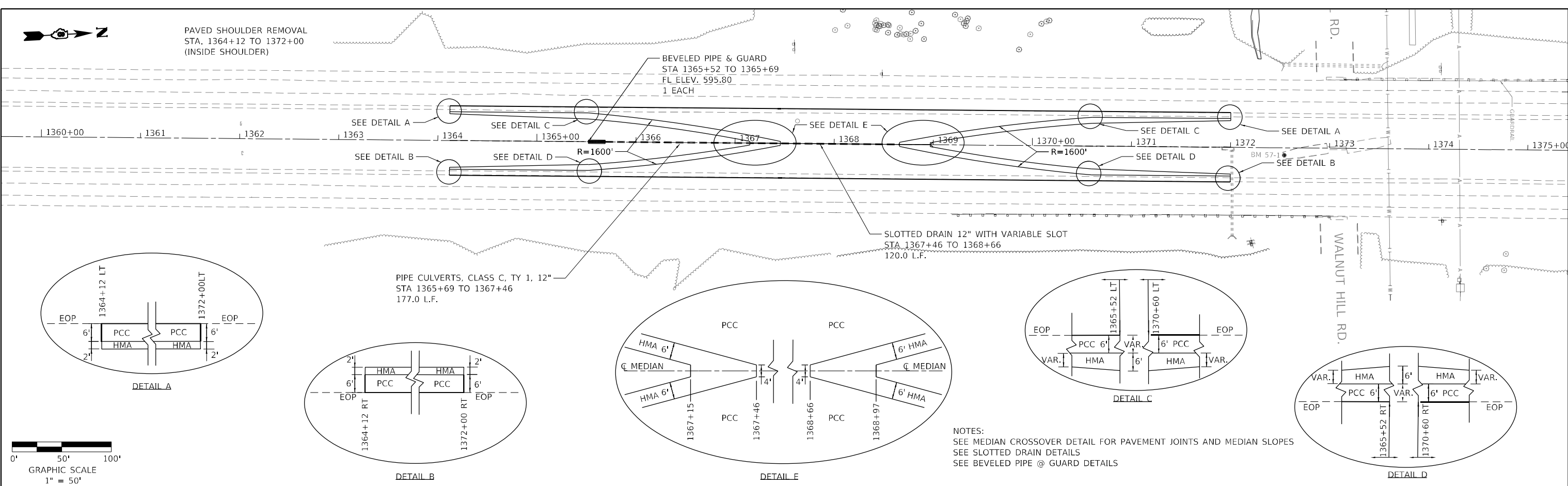


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FILE NAME: 031317\_IDOT\_DB\_157CAD\_Sheets10616F79-shd-Details\_SETconditions.dgn



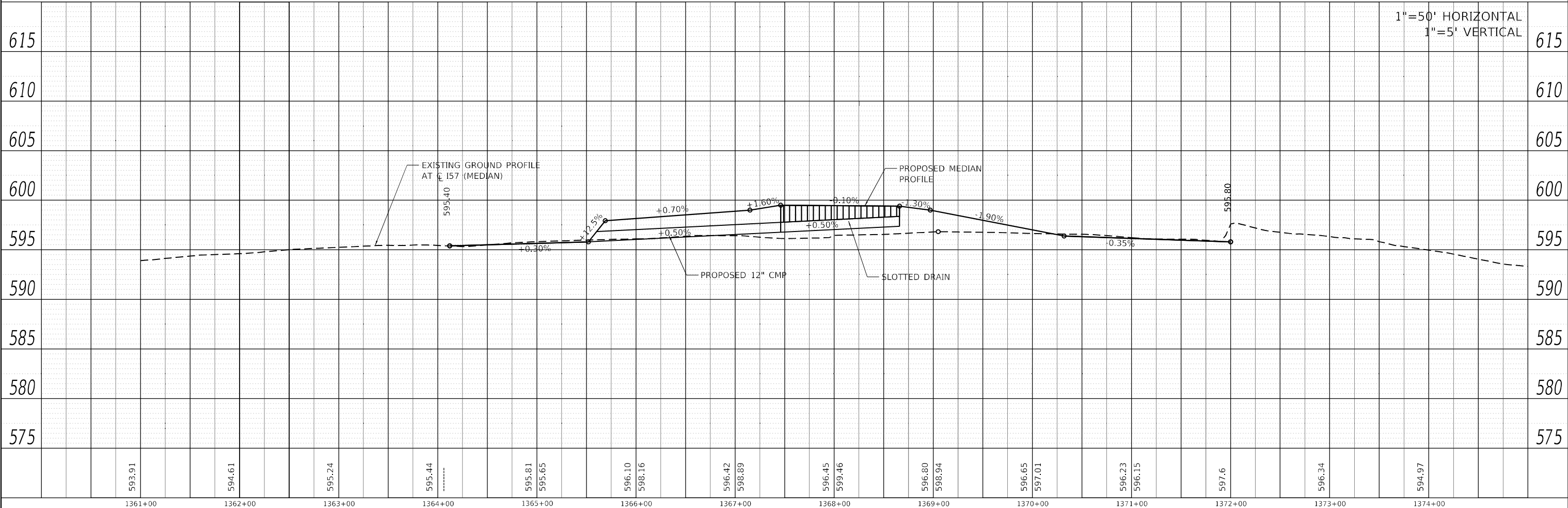
PAVED SHOULDER REMOVAL  
STA. 1364+12 TO 1372+00  
(INSIDE SHOULDER)

DATE	
BY	
REVISIONS	
NO.	
DATE	
BY	
REVISIONS	
NO.	
DATE	
BY	
REVISIONS	
NO.	



NOTES:  
SEE MEDIAN CROSSOVER DETAIL FOR PAVEMENT JOINTS AND MEDIAN SLOPES  
SEE SLOTTED DRAIN DETAILS  
SEE BEVELED PIPE @ GUARD DETAILS

DATE	
BY	
REVISIONS	
NO.	
DATE	
BY	
REVISIONS	
NO.	
DATE	
BY	
REVISIONS	
NO.	



1361+00	1362+00	1363+00	1364+00	1365+00	1366+00	1367+00	1368+00	1369+00	1370+00	1371+00	1372+00	1373+00	1374+00
593.91	594.61	595.24	595.44	595.81 595.65	596.10 598.16	596.42 598.89	596.45 599.46	596.80 598.94	596.65 597.01	596.23 596.15	597.6	596.34	594.97

**HMG** HMG ENGINEERS, INC.  
9360 HOLY CROSS LANE  
BREESE, ILLINOIS 62230  
Engineers • Surveyors (618) 526-9611  
IL PROF. DESIGN FIRM NO. 184.000899

USER NAME = mobilten	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 2/16/2022	CHECKED -	REVISED -
	DATE -	REVISED -

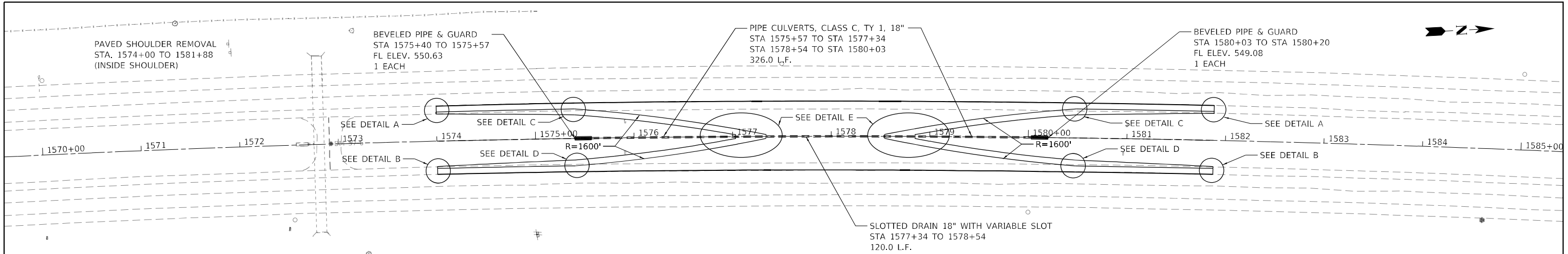
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>DETAILS SOUTH CROSSOVER</b>			
SCALE: 1" = 50'	SHEET 1	OF 1 SHEETS	STA. 1364+12 TO STA. 1372+00

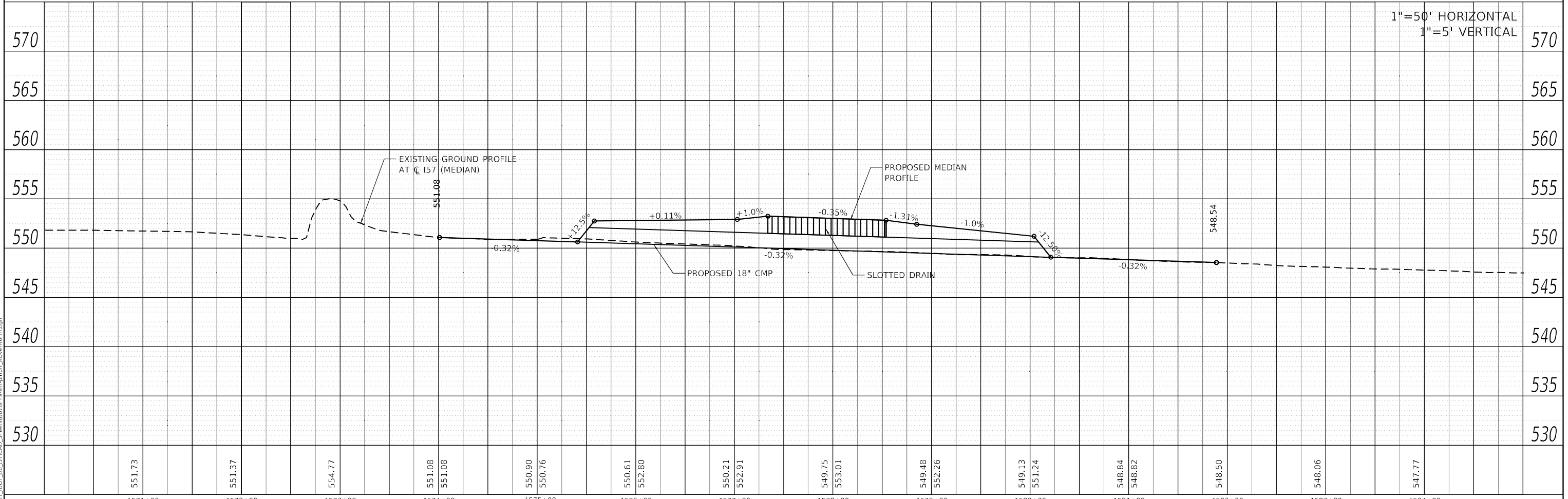
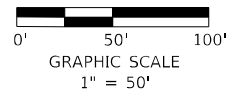
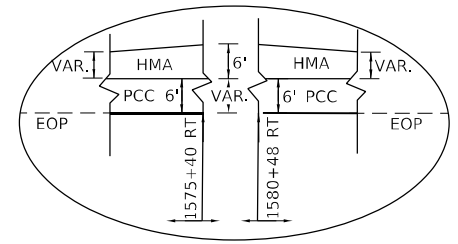
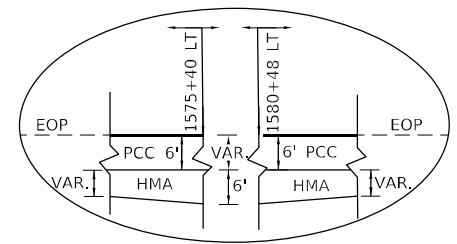
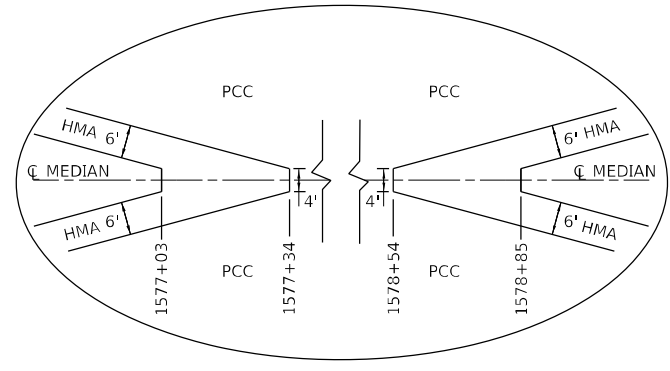
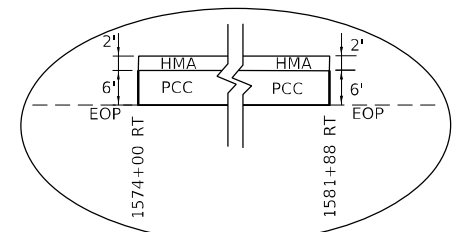
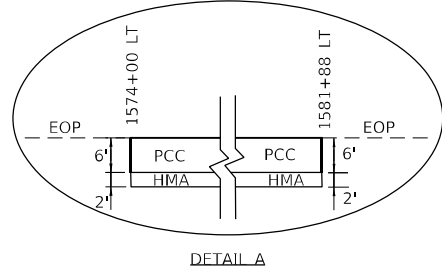
F.A.I. RTE. 57	SECTION 61-(1,1-1,1-2)RS-1	COUNTY MARION	TOTAL SHEETS 484	SHEET NO. 174
CONTRACT NO. 76F79			ILLINOIS FED. AID PROJECT NHPP-KC90(768)	

DATE	
BY	
REVISIONS	
NO.	
DATE	
BY	
REVISIONS	
NO.	
DATE	
BY	
REVISIONS	
NO.	

DATE	
BY	
REVISIONS	
NO.	
DATE	
BY	
REVISIONS	
NO.	
DATE	
BY	
REVISIONS	
NO.	



NOTES:  
 SEE MEDIAN CROSSOVER DETAIL FOR PAVEMENT JOINTS AND MEDIAN SLOPES  
 SEE SLOTTED DRAIN DETAILS  
 SEE BEVELED PIPE @ GUARD DETAILS



1571+00	1572+00	1573+00	1574+00	1575+00	1576+00	1577+00	1578+00	1579+00	1580+00	1581+00	1582+00	1583+00	1584+00
551.73	551.37	554.77	551.08 551.08	550.90 550.76	550.61 552.80	550.21 552.91	549.75 553.01	549.48 552.26	549.13 551.24	548.84 548.82	548.50	548.06	547.77

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 9360 HOLY CROSS LANE  
 BREESE, ILLINOIS 62230  
 (618) 526-9611  
 IL PROF. DESIGN FIRM NO. 184.000899

USER NAME = mobilien	DESIGNED -	REVISED -
PLOT SCALE = 100,000' / in.	DRAWN -	REVISED -
PLOT DATE = 2/16/2022	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**DETAILS  
 NORTH CROSSOVER**

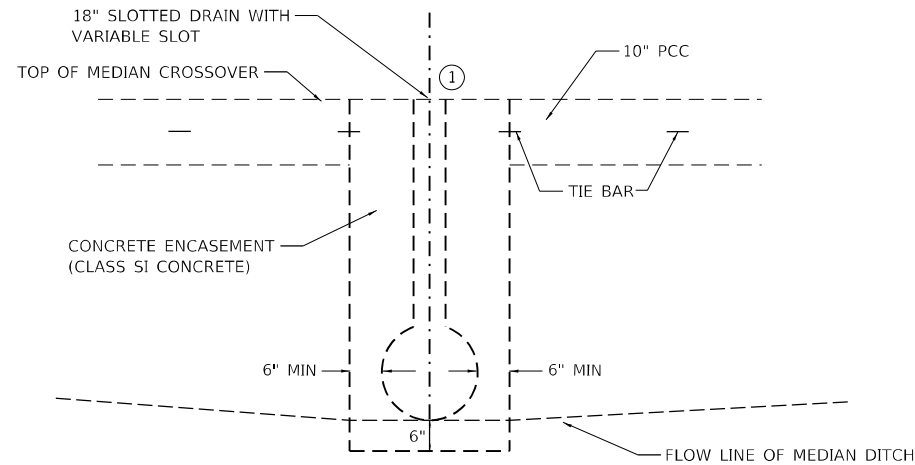
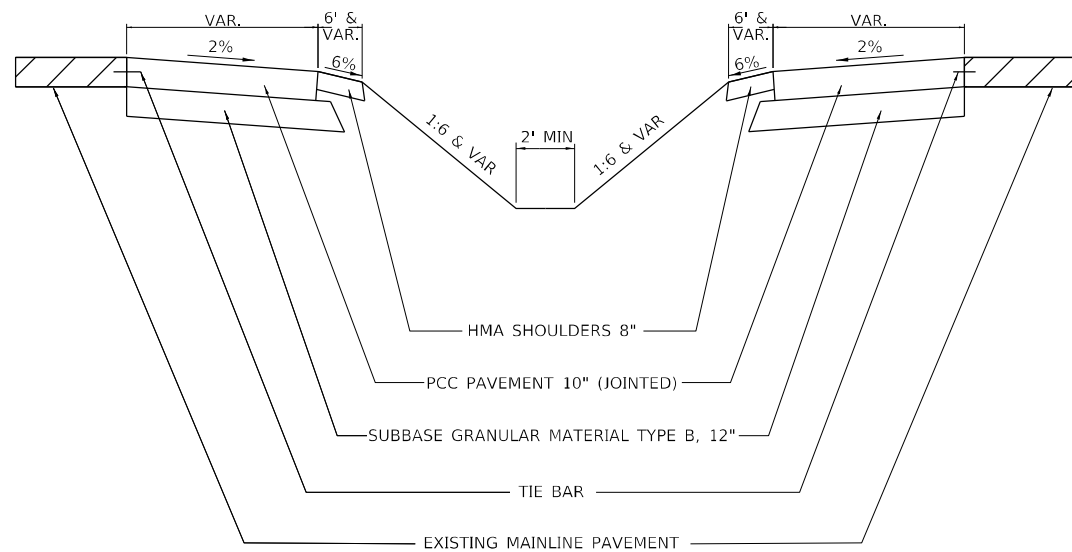
SCALE: 1" = 50'    SHEET 1 OF 1 SHEETS    STA. 1574+00 TO STA. 1581+88

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	175
CONTRACT NO. 76F79			ILLINOIS FED. AID PROJECT NHPK-KC9D(768)	

# 70' SINGLE LANE MEDIAN CROSSOVER

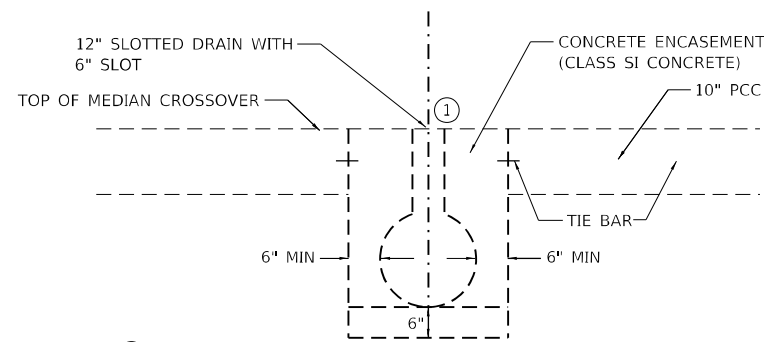
(POSTED SPEED LIMIT 65 MPH OR HIGHER, WORK ZONE SPEED LIMIT 55 MPH)

**TYPICAL SECTION**



**SECTION A-A**

(USE TO MAINTAIN MEDIAN DRAINAGE THROUGH THE CROSSOVER)



**SECTION A-A**

(WHEN CROSSOVER IS AT MEDIAN HIGH POINT)

**GENERAL NOTES**

CONSTRUCTION OF MEDIAN CROSSOVER SHALL CONFORM TO THE REQUIREMENT OF CURRENT STANDARD SPECIFICATIONS.

SLOTTED DRAIN SHALL BE CONSTRUCTED OF 14 OR 16 GAUGE CORRUGATED METAL ROADWAY PIPE MODIFIED TO ACCOMMODATE SLOTTED DRAIN AS SHOWN.

PAVEMENT, SUBGRADE, & SHOULDER QUANTITIES PER CROSSOVER ARE:

(2894.0 SQ YD)	SUBBASE GRANULAR MATERIAL TYPE B, 12"
(2818.4 SQ YD)	PCC PAVEMENT 10" (JOINTED)
(757.0 SQ YD)	HMA SHOULDERS 8"

ELBOWS AND CAPS SHALL BE CONSIDERED INCLUDED TO THE SLOTTED DRAIN 12" WITH 6" SLOT.

SEE SLOTTED DRAIN PIPE DETAILS.

SEE BEVELED PIPE & GUARD DETAILS.

THE CROSSOVER IS DESIGNED USING A 55 MPH DESIGN SPEED.

THE END OF THE PIPE GUARD SHALL BE SET WHERE A MINIMUM OF 1:4 FRONT SLOPE CAN BE CONSTRUCTED FROM EACH SIDE OF PIPE GUARD TO THE HMA SHOULDER.

THE PCC PAVEMENT 10" (JOINTED) SHALL BE CONSTRUCTED ACCORDING TO SECTION 420 OF THE STANDARD SPECIFICATIONS AND HIGHWAY STANDARDS 420001, 420101, & 420106.

THE PCC PAVEMENT 10" (JOINTED) SHALL BE TIED TO ADJACENT EXISTING CONCRETE PAVEMENT AND THE CONCRETE ENCASMENT FOR THE SLOTTED DRAIN. THE TIE BARS SHALL BE NO. 6 BARS 24" LONG @ 30" CTS, AND INSTALLED ACCORDING TO THE APPLICABLE PORTIONS OF ARTICLE 420.05(b) OF THE STANDARD SPECIFICATIONS. THE COST OF THE BARS TO BE INCLUDED IN THE COST OF THE PCC PAVEMENT 10" (JOINTED).

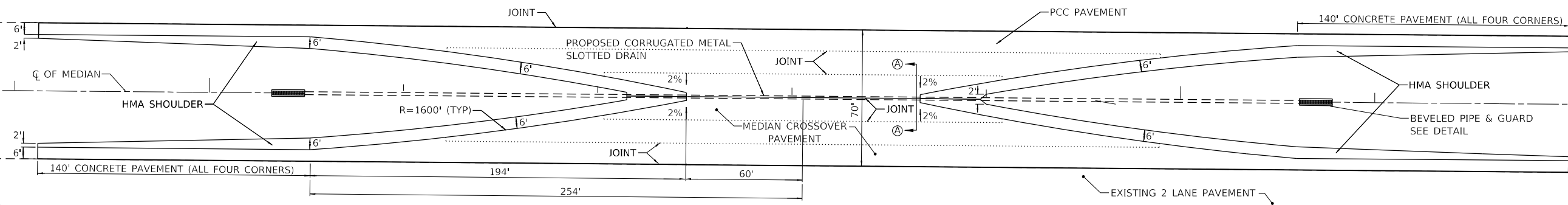
UNLESS OTHERWISE SPECIFIED, WHEN THE MEDIAN CROSSOVER IS TO BE REMOVED, THE CONTRACTOR SHALL BE REQUIRED TO SAW FULL-DEPTH ALONG THE SHOULDER LINE 6' FROM EDGE OF PAVEMENT. THE 6' ADJACENT TO THE EDGE OF PAVEMENT SHALL REMAIN IN PLACE AND BE USED AS SHOULDERS. THE COST OF SAWING SHALL BE INCLUDED IN THE PAVEMENT REMOVAL.

LONGITUDINAL JOINTS SHALL BE SAWED AT A MAX 12' WIDTH. ALL JOINTS SHALL BE SEALED.

TRAFFIC CONTROL STANDARD 701416 IS TO BE USED WITH THIS DETAIL.

TEMPORARY SEEDING SHALL BE CONSIDERED INCIDENTAL TO THE ITEMS ASSOCIATED WITH CONSTRUCTION OF THE MEDIAN CROSSOVER.

THE COST OF REMOVING THE MEDIAN CROSSOVER SHALL BE INCLUDED IN THE UNIT PRICE OF THE ITEMS USED TO CONSTRUCT THE CROSSOVER.



**TYPICAL PLAN**

MODEL: Default  
FILE NAME: 202303131 IDOT\_DB\_157CAD\_Sheets\031679-shd-Detail\_MedianCrossover.dgn

**HMG** HMG ENGINEERS, INC.  
9360 HOLY CROSS LANE  
BREESE, ILLINOIS 62230  
Engineers + Surveyors  
(618) 526-9611  
IL PROF. DESIGN FIRM NO. 184.000899

USER NAME = mobrien  
DESIGNED -  
DRAWN -  
PLOT SCALE = 60,000' / in.  
CHECKED -  
PLOT DATE = 2/16/2022

DESIGNED -  
DRAWN -  
CHECKED -  
DATE -

REVISED -  
REVISED -  
REVISED -  
REVISED -

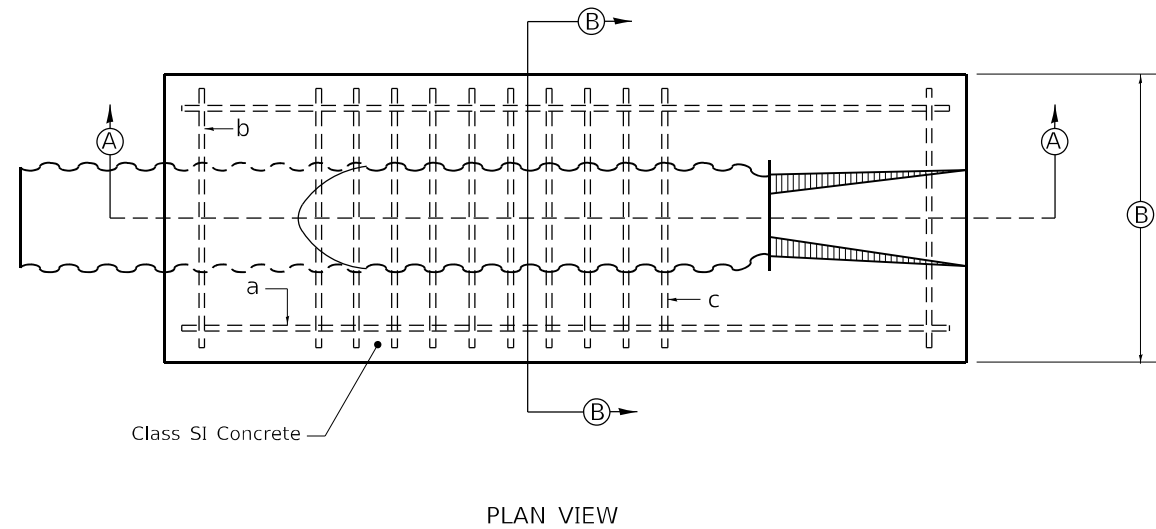
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETAILS  
70' MEDIAN SINGLE LANE CROSSOVER**

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	176
CONTRACT NO. 76F79				
ILLINOIS FED. AID PROJECT NHP#-KC9D768D				

# BEVELED PIPE & GUARD DETAIL FOR MEDIAN CROSSOVER



12 PIPE REINFORCING SCHEDULE			
Mark Req'd	Bar Size	Length	No.
a	5	110	2
b	5	32	2
c	8	34	10

18 PIPE REINFORCING SCHEDULE			
Mark Req'd	Bar Size	Length	No.
a	5	162	2
b	5	38	2
c	8	40	18

## GENERAL NOTES:

Details shown hereon are for the construction of beveled pipe and guard. Alternate designs, methods of construction or materials may be submitted to the Engineer for approval. All methods of construction and materials involved shall conform to current Standard Specifications.

Reinforcing steel used in construction of "Beveled Pipe and Guard" shall be deformed bars meeting the requirements of Article 1006.10 of the Standard Specifications. All steel bars shall be hot-dip galvanized in accordance with ASTM A 123 specifications.

Concrete used in construction of the beveled pipe and guard shall be Class "SI" Concrete.

The corrugated metal pipe shall be cut to fit the 1:8 foreslope. Slots shall be cut into the C.M.P. for placement of the 'b' and 'c' bars. After the foreslope has been placed, the 'b' and 'c' bars shall be fitted into the slots cut in the C.M.P. so they will be in proper position when the concrete collar is poured.

This work shall be paid for at the contract unit price per Each for "Beveled Pipe and Guard", as shown hereon and as directed by the Engineer.

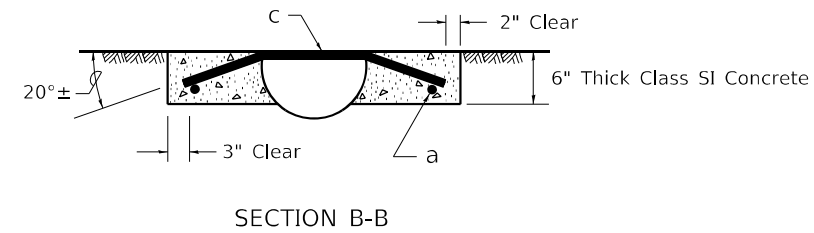
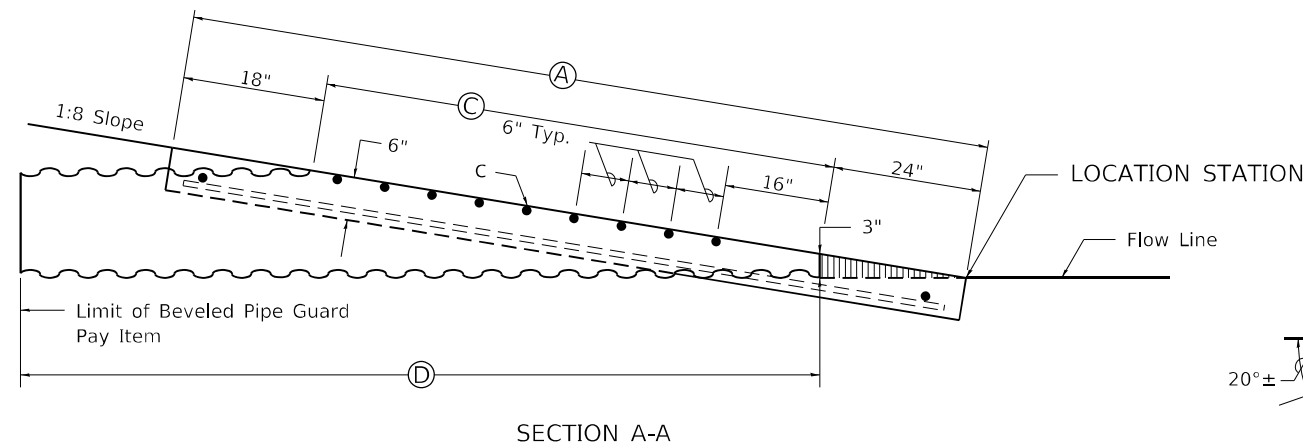
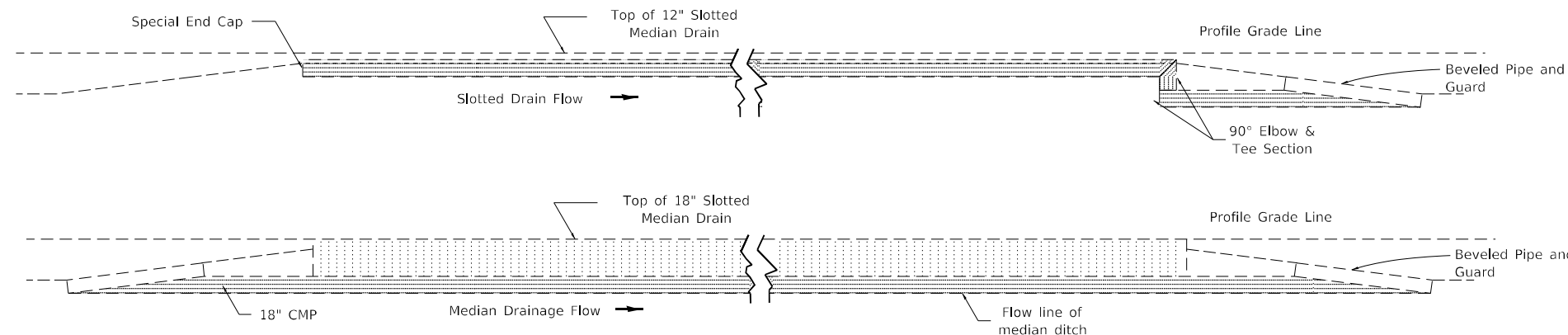


TABLE OF DIMENSIONS				
PIPE SIZE	A	B	C	D
12	9' - 6"	36	6'	10'
18	13' - 10"	42	10' - 4"	14' - 10"

## TYPICAL SECTION THRU CENTERLINE OF MEDIAN CROSSOVER



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

MODEL: Default  
FILE NAME: 202303131 IDOT\_DB\_157CAD\_Sheets\081679-shr-Detail-BeveledPipe&Guard.dgn

**HMG** HMG ENGINEERS, INC.  
9360 HOLY CROSS LANE  
BREESE, ILLINOIS 62230  
Engineers & Surveyors (618) 526-9611  
IL PROF. DESIGN FIRM NO. 184.000899

USER NAME = mobrien  
DESIGNED -  
DRAWN -  
PLOT SCALE = 100,0000' / in.  
CHECKED -  
PLOT DATE = 2/16/2022  
DATE -

DESIGNED -  
DRAWN -  
CHECKED -  
DATE -

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

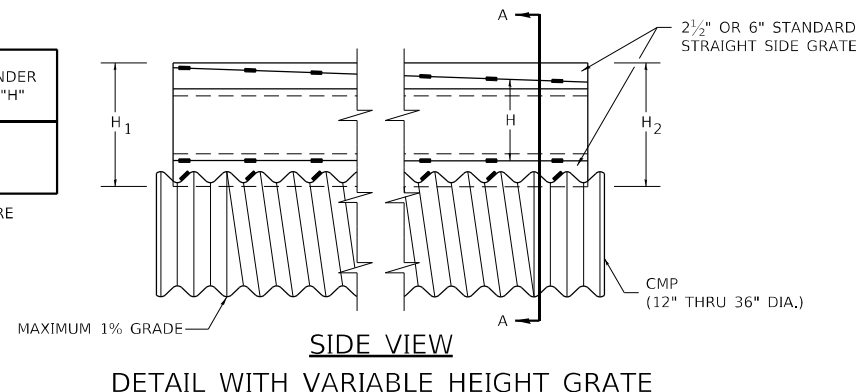
DETAILS  
BEVELED PIPE & GUARD

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1.1-1,1-2.2)RS-1	MARION	484	177
CONTRACT NO. 76F79				
ILLINOIS FED. AID PROJECT NHPP#K9D176B				

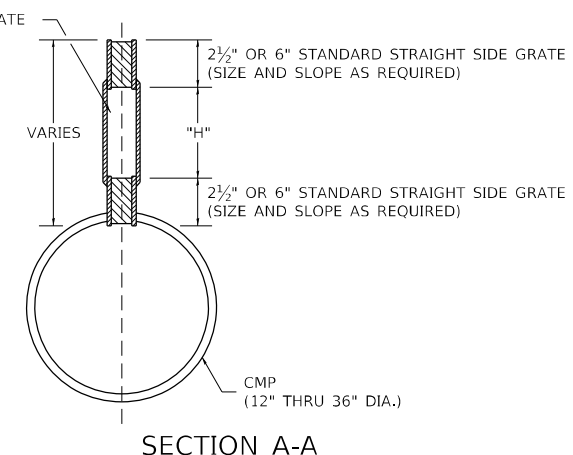
# SLOTTED DRAIN PIPE

LOADING CONDITION	MAX. EXTENDER HEIGHT - "H"
H20/H25 * 750 PSI CONCRETE	19"

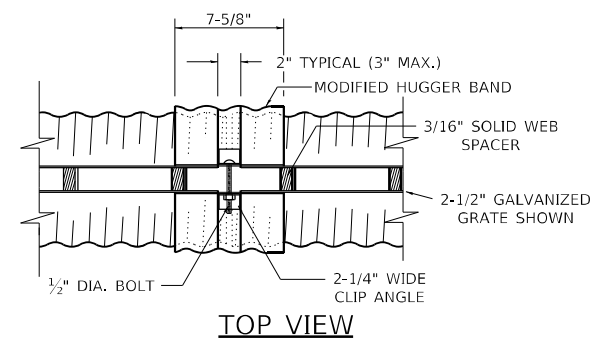
\* 125 PSI TIRE PRESSURE



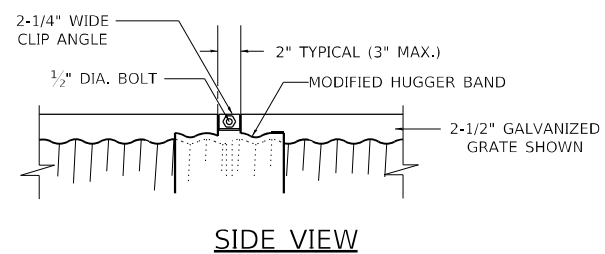
**PLATE EXTENDERS**  
7 GA. GALVANIZED PLATE  
PER ASTM A761  
SLOPE AS REQUIRED.



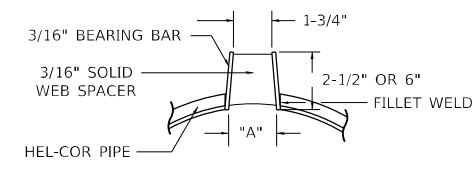
**SECTION A-A**



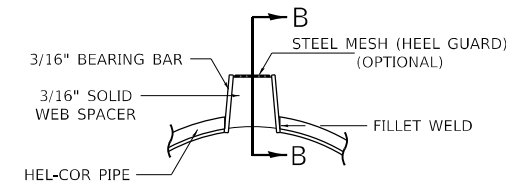
**TOP VIEW**



**SIDE VIEW**



**SECTION A-A  
STANDARD DETAIL**



**SECTION A-A  
DETAIL WITH MESH**

(TRAPEZOIDAL GALVANIZED GRATE SHOWN)

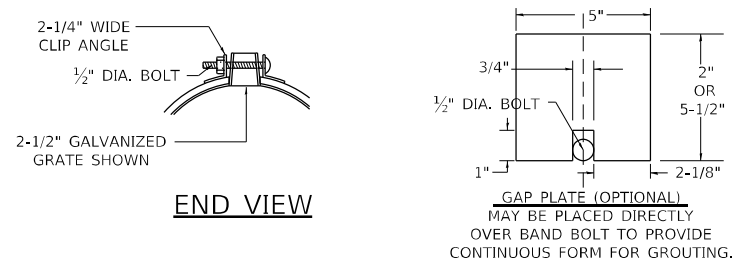
STANDARD SIZES		DIAMETER OF PIPE					
GAGE OF PIPE		12"	15"	18"	24"	30"	36"
16	X	X	X	X	X	X	X
14	X	X	X	X	X	X	X
12	N.A.	N.A.	N.A.	N.A.	X	X	X

GRATE TYPE	"A"
VERT	2-1/2"
TRAP	3"

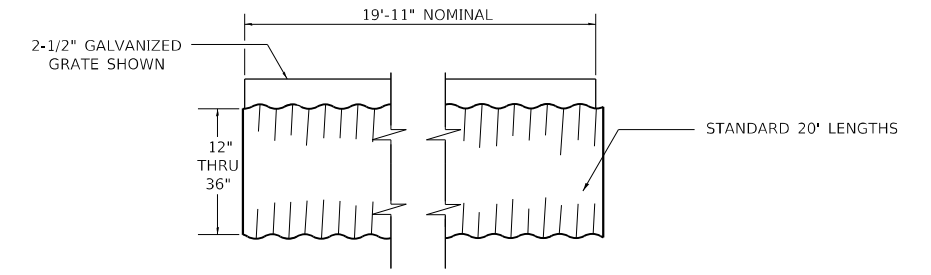
VERT = VERTICAL  
TRAP = TRAPEZOIDAL

**SLOTTED DRAIN NOTES**

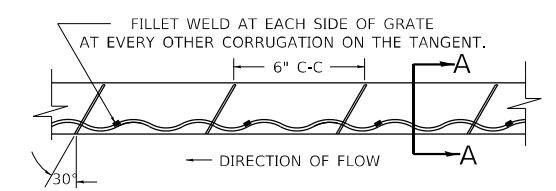
- GRATING IS AVAILABLE IN DEPTHS OF 2-1/2" AND 6".
- VERTICAL GRATING (STRAIGHT SIDES) WITH VERTICAL SPACERS IS ALSO AVAILABLE.
- FOR 6" VERTICAL & TRAPEZOIDAL REQUIREMENTS, THE SLOTTED DRAIN BAND MAY BE FURNISHED WITH THE 4" TECHCO BAND ANGLE.
- DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES.
- DIMENSIONS FOR H<sub>1</sub> AND H<sub>2</sub> AS REQUIRED.
- H<sub>1</sub> AND H<sub>2</sub> MEASURED FROM TOP OF GRATE TO BOTTOM OF GRATE.



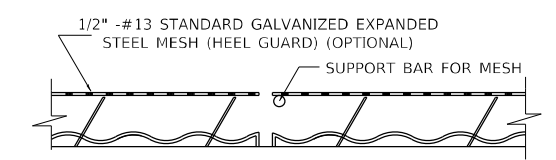
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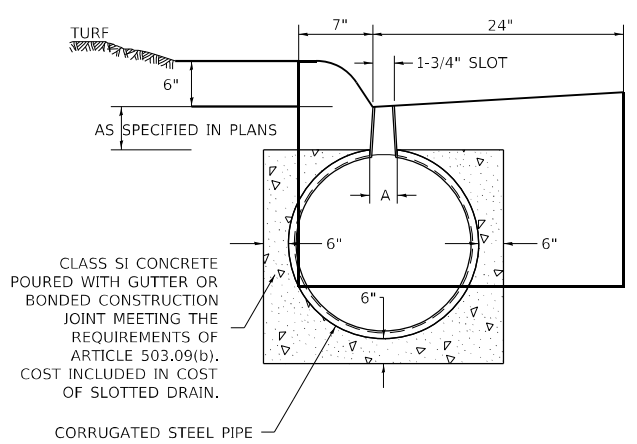
**TYPICAL PIPE SECTION**



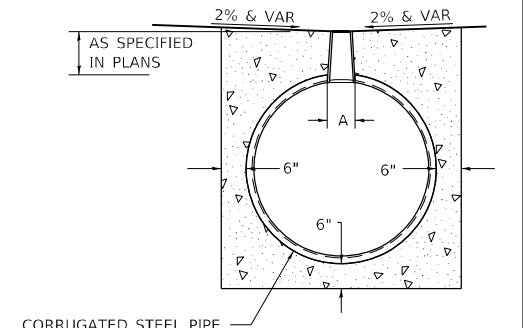
**GRATE WELDING DETAIL**



**SECTION B-B**



**DETAIL FOR CURB & GUTTER**



**DETAIL FOR CROSSOVERS,  
DRIVEWAYS, OR PARKING LOTS**

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

**GENERAL**

Class SI Concrete shall be used throughout. This specification covers Slotted Drain used for the removal of water as shown on the plans. The Slotted Drain shall be Corrugated Pipe Culvert with Integral Slotted Drains. Before placing the concrete adjacent to the pipe, the slot shall be covered by either thin, flat metal sheeting or by a board notched to fit over the grate bars. This covering must fit closely in the slot to prevent entry of concrete into the pipe. Paving over the slotted drain will then be one continuous operation over the protected drain. The protection for the drain slot shall then be removed. The pipe shall drain into the side of the inlet. The opening where the slot is removed shall be covered to prevent concrete from entering the pipe. The Corrugated Steel Pipe used in the Slotted Drain shall meet the requirements of AASHTO M36/ASTM A760. The CMP shall be ALUMINIZED STEEL Type 2. The diameter shall be as shown on the plans. Steel grating shall meet the galvanizing requirements of AASHTO M111. This work will be paid for at the contract unit price per foot for SLOTTED DRAIN of the pipe diameter specified WITH VARIABLE SLOT, or SLOTTED DRAIN, of the pipe diameter specified, WITH 6" SLOT, and shall include concrete and grating for depth specified on plans. Use approved end cap to prevent concrete entry into the pipe during gutter construction on the upstream end of the pipe.

**CONNECTIONS**

The Corrugated Steel Pipe shall have a minimum of two rerolled annular ends. The Slotted Drain bands shall be modified HUGGER Bands to secure the pipe and prevent infiltration of the backfill. When the Slotted Drain is banded together, the adjacent grates shall have a maximum 3" gap.

**GRATES**

The grates shall be manufactured from ASTM A670, Grade 36 steel. The spacers and bearing bars (sides) shall be 3/16" material ±0.008". The spacers shall be on 6" centers and welded on both sides to each bearing bar (sides) with four (4) 1-1/4" long 3/16" fillet welds on each side of the bearing bar. The plate extender shall be 7 gage steel meeting ASTM A761. The engineer may call for tensile strength tests on the grate if the grate is not in compliance with the above spacer specifications. If tensile strength tests are called for, minimum results for an in-place spacer pulled perpendicular to the bearing bar shall be:  
T = 12,000 pounds for 2-1/2" grate  
T = 15,000 pounds for 6" grate

**GALVANIZING**

The grate and plate extenders shall be galvanized in accordance with ASTM A123 except with a 2 oz. galvanized coating.

**GRATE ATTACHED TO CSP**

The grate shall be fillet welded with a minimum weld 1" long to the CSP on each side of the grate at every other corrugation.

**TOLERANCES - FINISHED SLOTTED DRAIN - 20' LENGTHS**

Vertical Bow = ± 3/8"  
Horizontal Bow = ± 5/8"  
Twist = ± 1/2"

MODEL: Default  
FILE NAME: 61103131.DDOT\_DB\_157CAD\_Sheets\0816879-shd-Detail\_SlottedDrain.dgn

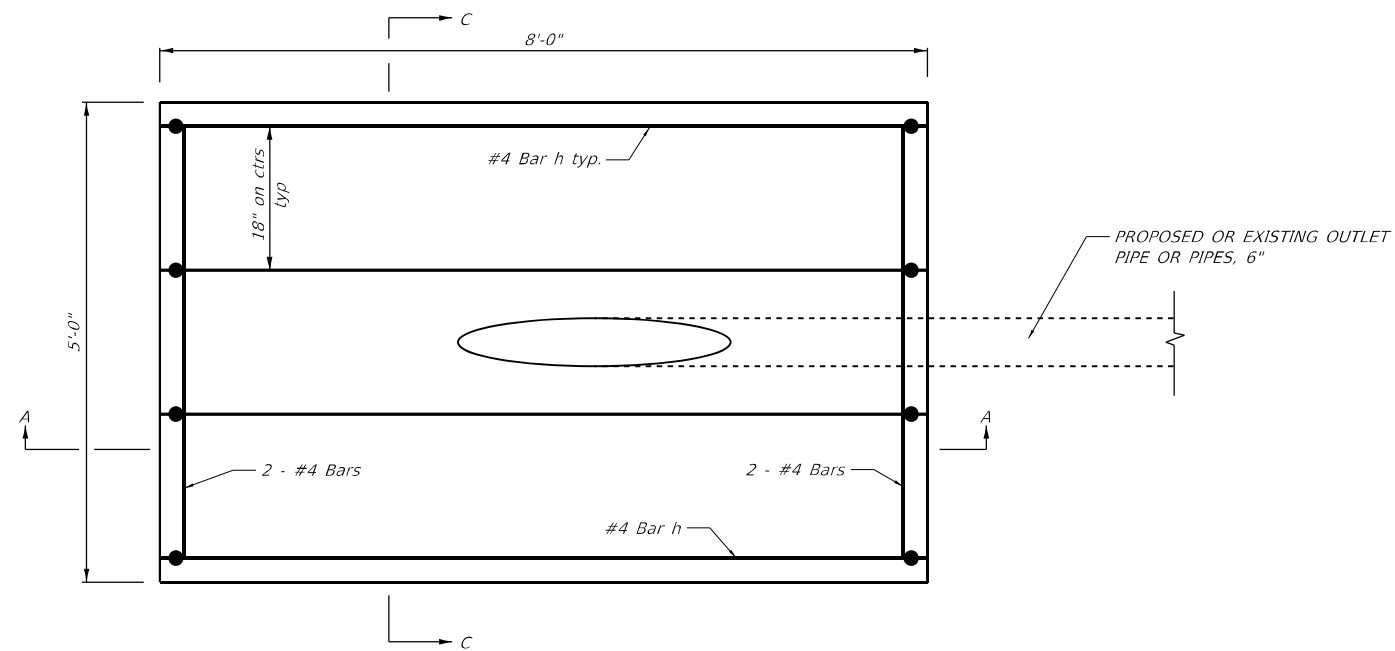
**HMG** HMG ENGINEERS, INC.  
9360 HOLY CROSS LANE  
BREESE, ILLINOIS 62230  
Engineers & Surveyors (618) 526-9611  
IL PROF. DESIGN FIRM NO. 184.000899

USER NAME = mobrien	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000 / 1 in.	CHECKED -	REVISED -
PLOT DATE = 2/16/2022	DATE -	REVISED -

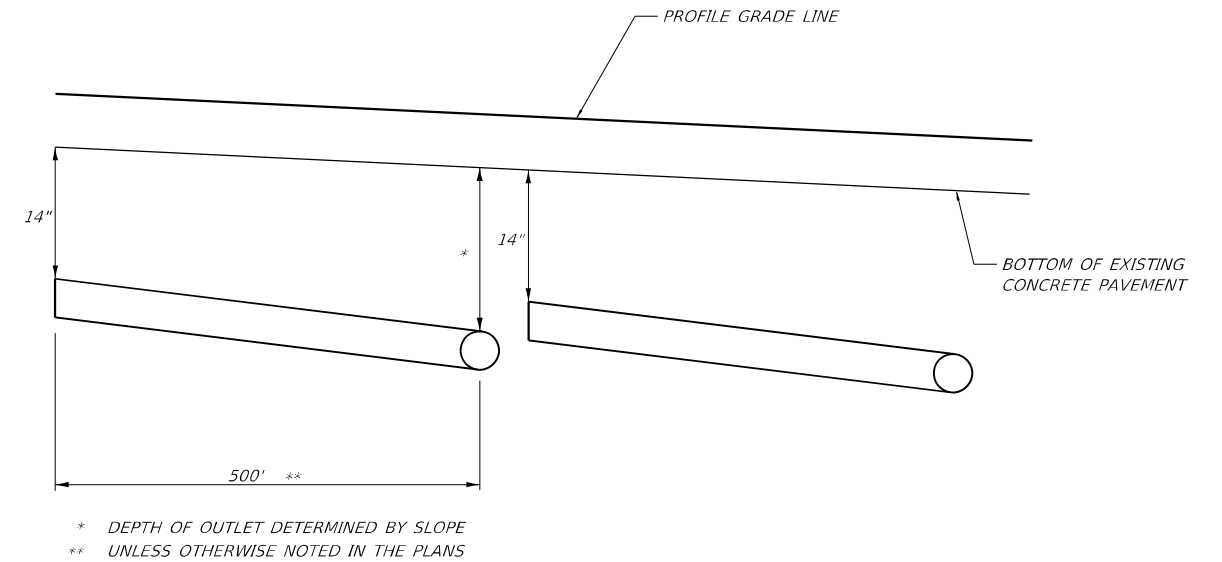
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SLOTTED DRAIN PIPE DETAIL			
SCALE: N.T.S.	SHEET 1	OF 1 SHEETS	STA. TO STA.

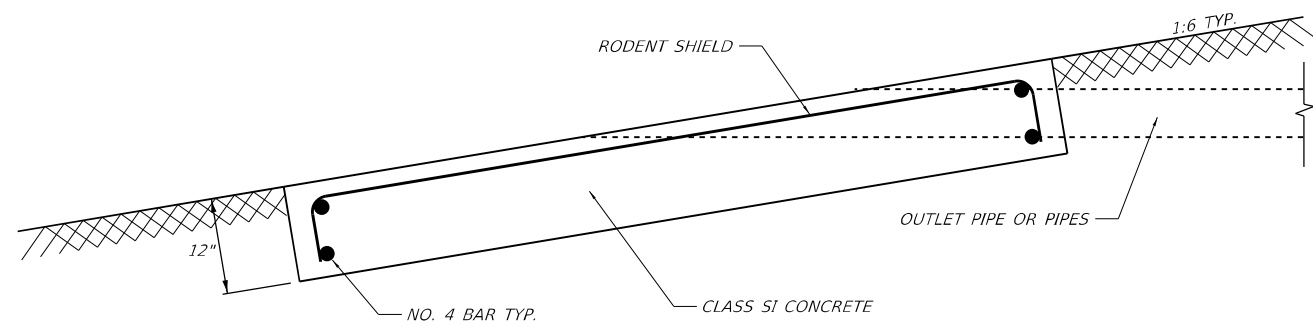
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,2-2)RS-1	MARION	483	178
CONTRACT NO. 76F79				
ILLINOIS FED. AID PROJECT NHPK-KC9D(768)				



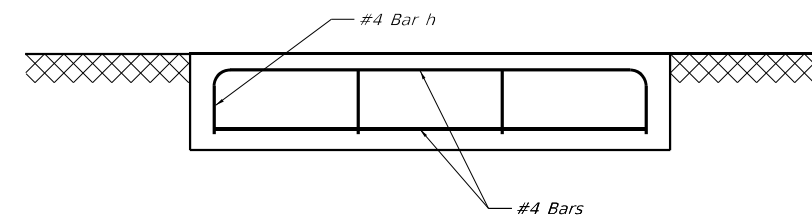
PLAN VIEW



PIPE UNDERDRAIN DETAIL  
(USE WHEN PGL IS LESS THAN 0.4%)

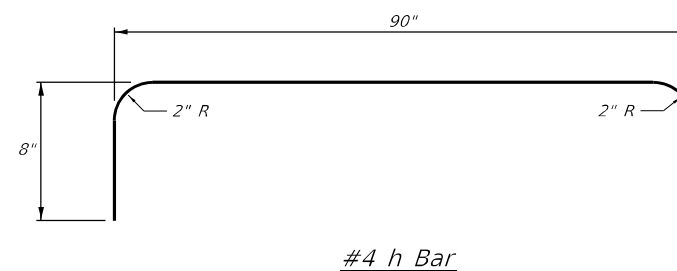


SECTION A-A



SECTION C-C

APPROXIMATE OUTLET PROTECTOR QUANTITIES FOR EACH OUTLET PROTECTOR	
CONCRETE, CLASS SI	1.5 CU YD
REINFORCING STEEL	35.6 LB



#4 h Bar

NOTES

- SEE STANDARD 601101 FOR DETAILS OF RODENT SHIELDS.
- THE OUTLET PIPE OR PIPES SHALL BE LOCATED AS CLOSE AS POSSIBLE TO THE CENTER OF THE OUTLET PROTECTOR.
- THE LAST 10 FEET OF OUTLET PIPE SHALL BE SCHEDULE 40 PVC.
- REINFORCEMENT BARS MAY BE CUT OR RELOCATED TO ACCOMMODATE PIPE.
- CUT OUTLET PIPE ON A BEVE TO MATCH FINISHED SURFACE OF SURROUNDING PCC.
- SEEDING CLASS 2 SHALL BE CONSIDERED INCLUDED IN THE COST OF THE PAY ITEMS.

MODEL: Default  
FILE NAME: 202303131 IDOT\_DB\_157\CAD\_Sheets\10816879-ent-detail\_07\pipeunderdrain.dgn

**HMG** HMG ENGINEERS, INC.  
9360 HOLY CROSS LANE  
BREESE, ILLINOIS 62230  
(618) 526-9611  
IL PROF. DESIGN FIRM NO. 184.000899

USER NAME = mobrien  
PLOT SCALE = 100,0000' / in.  
PLOT DATE = 2/16/2022

DESIGNED - DISTRICT 7  
DRAWN - M,OBRIEN  
CHECKED -  
DATE -

REVISED -  
REVISED -  
REVISED -  
REVISED -

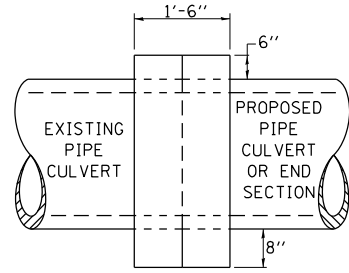
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DETAILS  
OUTLET PROTECTOR

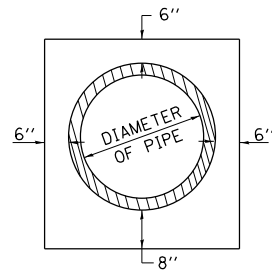
SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	179
CONTRACT NO. 76F79				
ILLINOIS FED. AID PROJECT NHPP-KC9D(768)				





**SIDE VIEW**

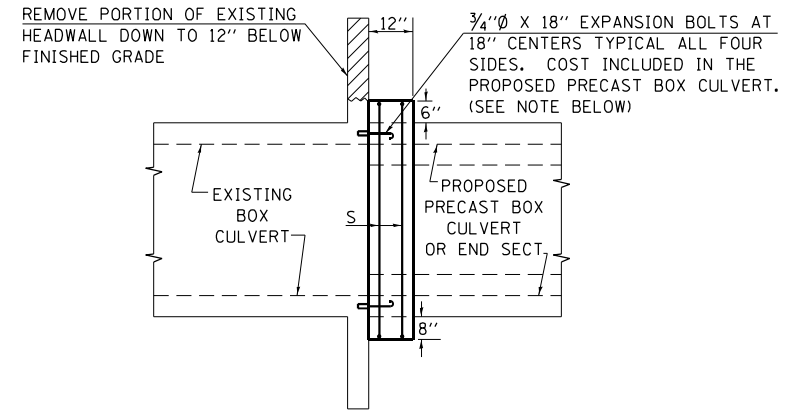


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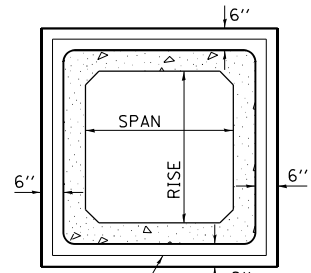
**CONCRETE COLLAR  
PIPE TO PIPE**

**TABULATION**

DIAMETER OF PIPE	CL SI CONC CU YDS EST
12"	0.24
15"	0.29
18"	0.32
24"	0.44
30"	0.56
36"	0.66
42"	0.80
48"	0.93
54"	1.07
60"	1.22
72"	1.55



**SIDE VIEW**

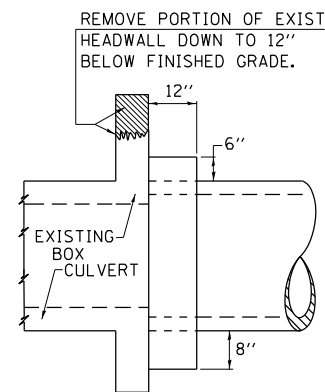


**END VIEW**

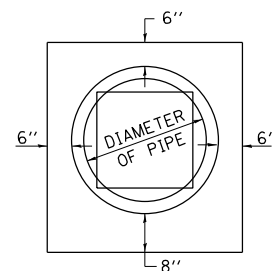
**CONCRETE COLLAR FOR  
PRECAST BOX CULVERT**

**TABULATION**  
(FOR INFORMATION PURPOSES ONLY)

SPAN X RISE	CLASS SI CONC. CU. YD. (EST.)
3' X 2'	0.30
3' X 3'	0.34
4' X 2'	0.36
4' X 3'	0.39
4' X 4'	0.43
5' X 3'	0.45
5' X 4'	0.49
6' X 3'	0.51
6' X 4'	0.54



**SIDE VIEW**



**END VIEW**

**CONCRETE COLLAR  
PIPE TO EXISTING  
BOX CULVERT**

**TABULATION**

DIAMETER OF PIPE	CL SI CONC CU YDS EST
12"	0.16
15"	0.19
18"	0.21
24"	0.29
30"	0.37
36"	0.44
42"	0.53
48"	0.62
54"	0.71
60"	0.81
72"	1.03

**NOTES:**

THE CONCRETE COLLAR FOR PIPES SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR CONCRETE COLLAR, AS SHOWN ON THE PLANS, WHICH PRICE SHALL INCLUDE THE REMOVAL OF SUCH PORTIONS OF THE EXISTING HEADWALLS AS MAY BE REQUIRED.

CONCRETE COLLAR FOR PRECAST BOX CULVERTS SHALL BE CONSIDERED INCLUDED IN THE COST OF PRECAST CONCRETE BOX CULVERTS, WHICH COST SHALL INCLUDE THE REMOVAL OF SUCH PORTIONS OF THE EXISTING HEADWALLS AS MAY BE REQUIRED.

EXPANSION HOOK BOLTS, MEETING THE REQUIREMENT OF ARTICLE 1006.09 OF THE STANDARD SPECIFICATIONS, SHALL EXTEND A MINIMUM OF 9 INCHES INTO THE NEW CONCRETE. EXPANSION BOLTS SHALL BE GRADE 36, GALVANIZED STEEL & PROVIDE A MINIMUM CERTIFIED PROOF LOAD OF 7,500 POUNDS. CLASS SI CONCRETE SHALL BE USED THROUGHOUT.

MODEL: Default  
FILE NAME: 03101371.DOT.DWG, 157/CAD, Sheets\03101371-01-Details\_ConcreteCollar.dwg

**HMG** HMG ENGINEERS, INC.  
9360 HOLY CROSS LANE  
BREESE, ILLINOIS 62230  
Engineers + Surveyors (618) 526-9611  
IL PROF. DESIGN FIRM NO. 184.000899

USER NAME = mobrien  
DESIGNED -  
DRAWN -  
PLOT SCALE = 100,0000' / in.  
PLOT DATE = 2/16/2022

DESIGNED -  
DRAWN -  
CHECKED -  
DATE -

REVISED -  
REVISED -  
REVISED -  
REVISED -

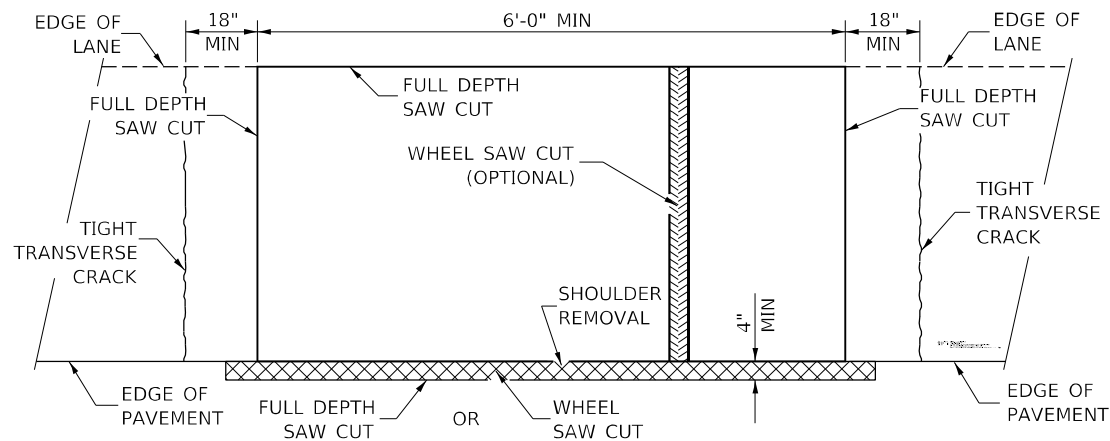
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

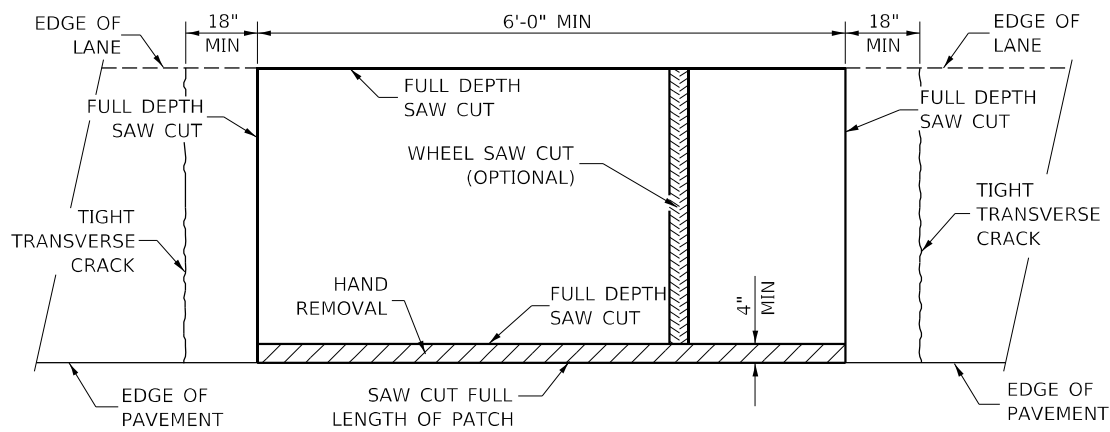
DETAILS  
CONCRETE COLLAR

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1-1-1,1-2,2)RS-1	MARION	484	180
CONTRACT NO. 76F79				
ILLINOIS FED. AID PROJECT NHPP-KC9D(768)				

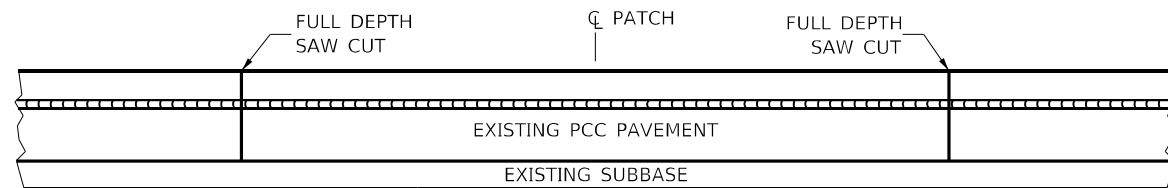
DESIGNER NOTE: PROVIDE MAP WITH SIGN LOCATIONS (A, B, ETC.) AND COORDINATE WITH TRAFFIC OPERATIONS ENGINEER.  
INCLUDE DISTRICT SPECIAL PROVISION "WIDTH RESTRICTION SIGNING"



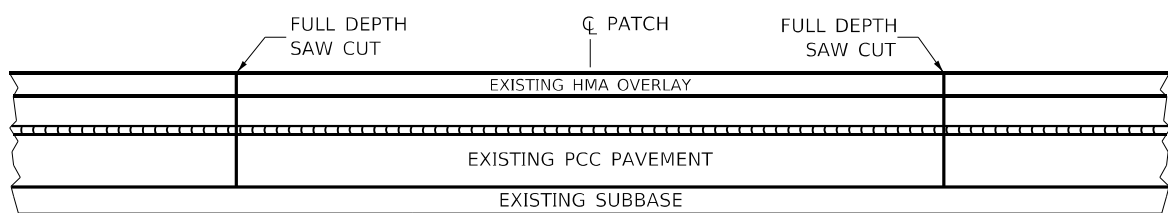
**PAVEMENT SAWING DETAIL  
(HMA SHOULDER)**



**PAVEMENT SAWING DETAIL  
(PCC SHOULDER)**

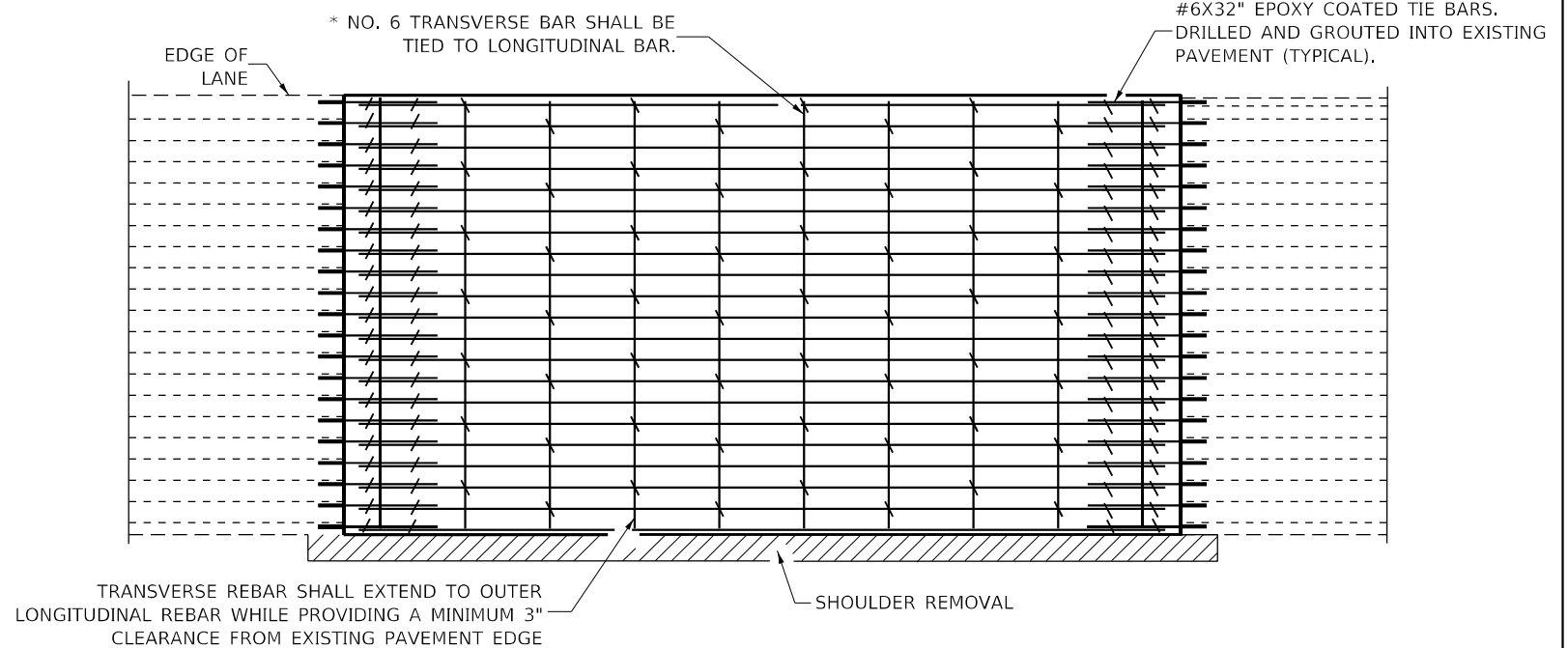


**EXISTING PAVEMENT WITHOUT HMA SURFACE**

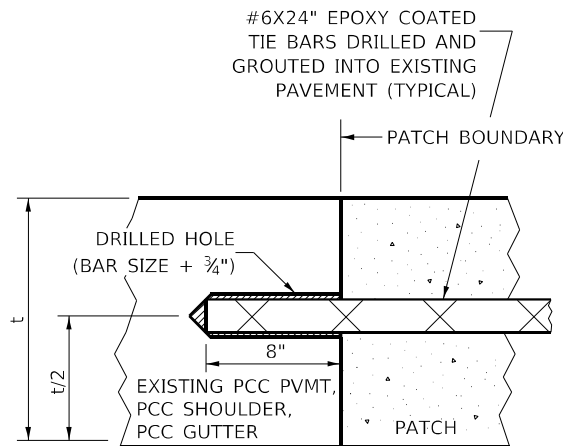


**EXISTING PAVEMENT WITH HMA SURFACE**

**PAVEMENT SAWING DETAIL FOR CLASS A PATCHING  
(CRC PAVEMENT)**



**PAVEMENT REINFORCEMENT DETAIL**



**LONGITUDINAL CONSTRUCTION JOINT**

PATCHES MORE THAN 20' IN LENGTH SHALL BE TIED TO ADJACENT PAVEMENT, PCC SHOULDERS OR PCC CURB AND GUTTER WITH #6x24" EPOXY COATED TIE BARS AT 36" CENTERS.

**NOTES:**

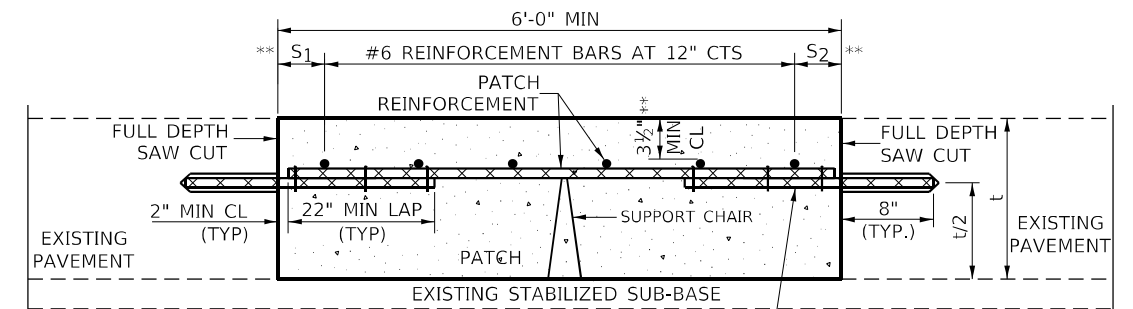
EXISTING LONGITUDINAL REINFORCEMENT SPACING;  $\pm 6\frac{1}{2}$ ".

SPACING OF NEW LONGITUDINAL REINFORCEMENT AND NEW LONGITUDINAL TIE BARS SHALL MATCH SPACING OF EXISTING REINFORCEMENT AND SHALL BE TIED TOGETHER WITH A MINIMUM OF TWO TIES PER BAR.

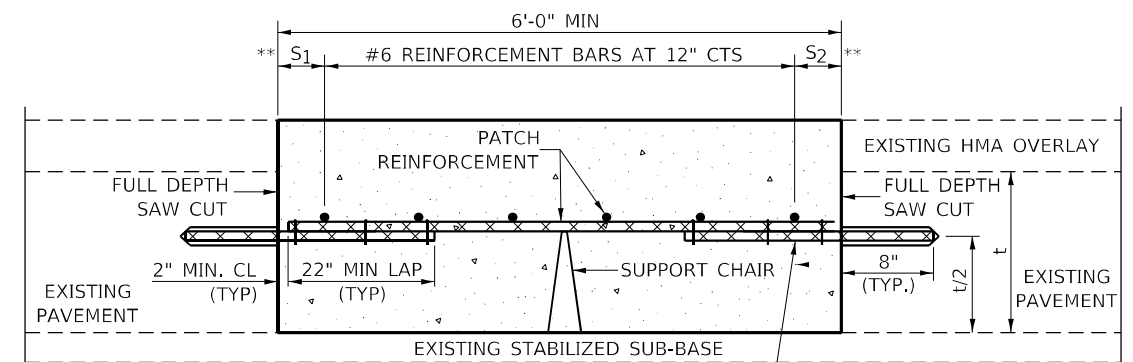
SUPPORT CHAIRS SHALL BE REQUIRED WHENEVER PATCH LENGTH EXCEEDS 6'-0"

\* EVERY THIRD INTERSECTION MUST BE TIED. WHEN THE MINIMUM CLEARANCE CANNOT BE OBTAINED WITH THE TRANSVERSE REBAR ON TOP, THEN THE TRANSVERSE REBAR SHALL BE TIED TO THE BOTTOM OF THE LONGITUDINAL REBAR.

\*\* VARIABLES WHERE  $S_1$  AND  $S_2$  ARE  $2\frac{1}{2}$ " MIN. AND 12" MAX.



**WITHOUT HMA OVERLAY**



**WITH HMA OVERLAY**

**PATCHING DETAIL FOR CLASS A PATCHING  
(CRC PAVEMENT)**

MODEL: Default  
FILE NAME: 603137.DOT.D8\_157CAD\_Sheets10818679-shr-detail\_Clar-A-patching.dgn

**HMG** HMG ENGINEERS, INC.  
9360 HOLY CROSS LANE  
BREESE, ILLINOIS 62230  
Engineers + Surveyors (618) 526-9611  
IL PROF. DESIGN FIRM NO. 184.000899

USER NAME = mobrien  
DESIGNED -  
DRAWN -  
PLOT SCALE = 40,000' / in.  
CHECKED -  
PLOT DATE = 2/16/2022

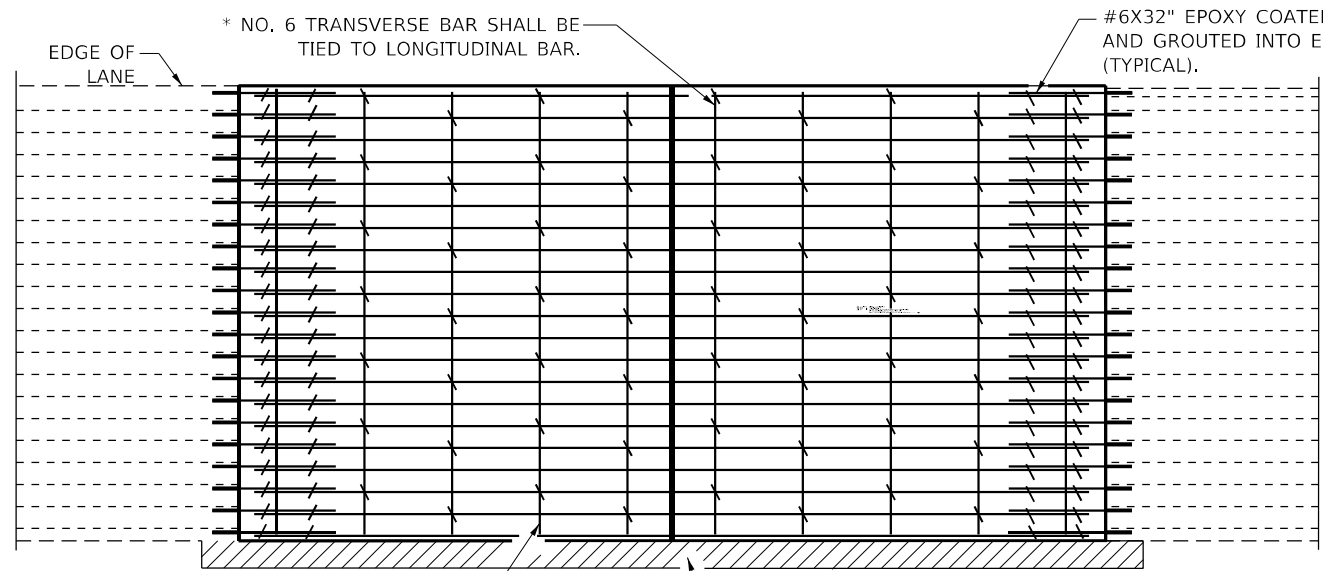
DESIGNED -  
DRAWN -  
CHECKED -  
DATE -

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

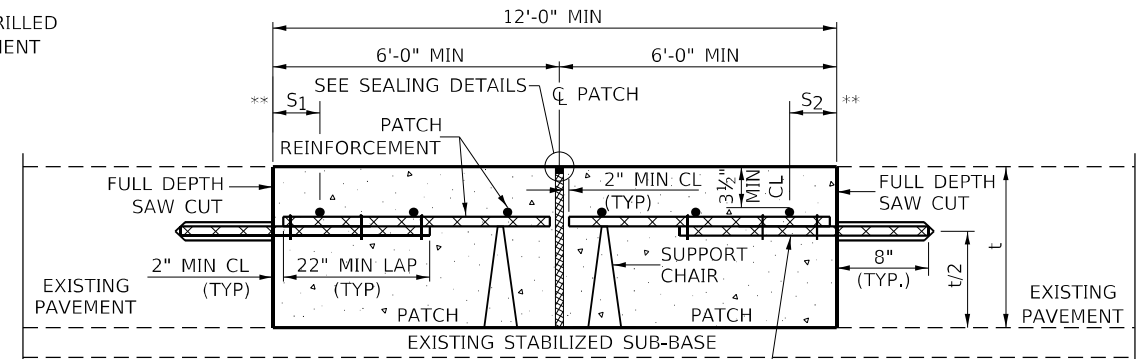
DETAILS  
CLASS A PATCHING (SPECIAL)  
SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	181
CONTRACT NO. 76F79				
ILLINOIS FED. AID PROJECT NHPP-KC9D(768)				

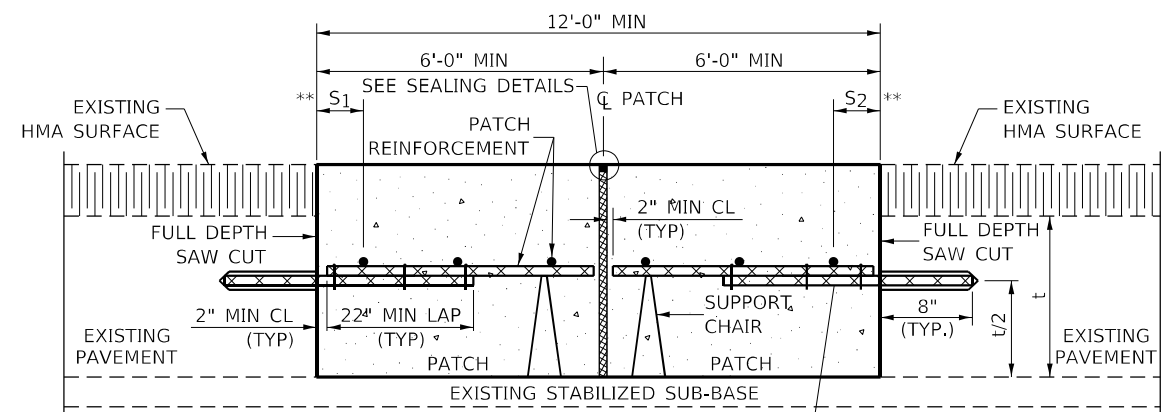


TRANSVERSE REBAR SHALL EXTEND TO OUTER LONGITUDINAL REBAR WHILE PROVIDING A MINIMUM 3" CLEARANCE FROM EXISTING PAVEMENT EDGE

**PAVEMENT REINFORCEMENT DETAIL**

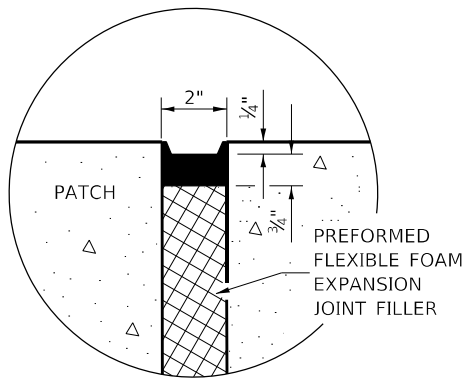


**WITHOUT HMA OVERLAY**

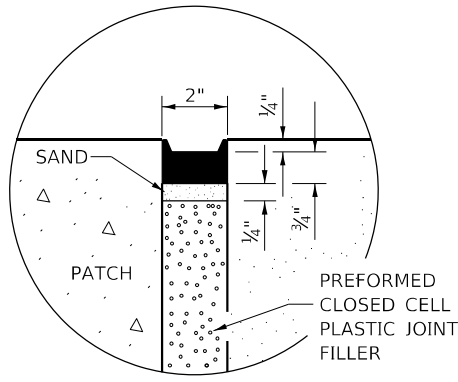


**WITH HMA OVERLAY**

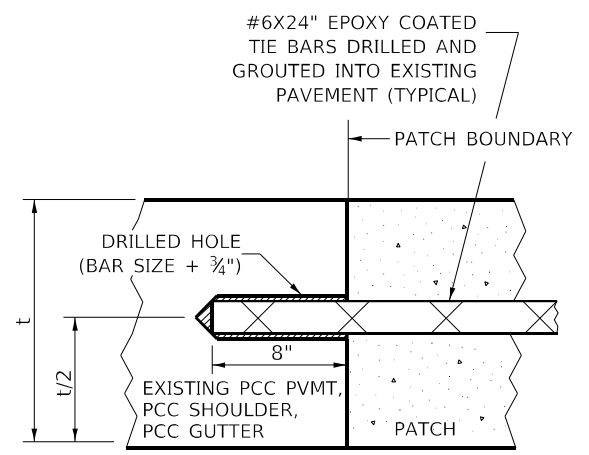
**CLASS A PATCH WITH EXPANSION JOINT**



**SEALING DETAIL**



**SEALING DETAIL**



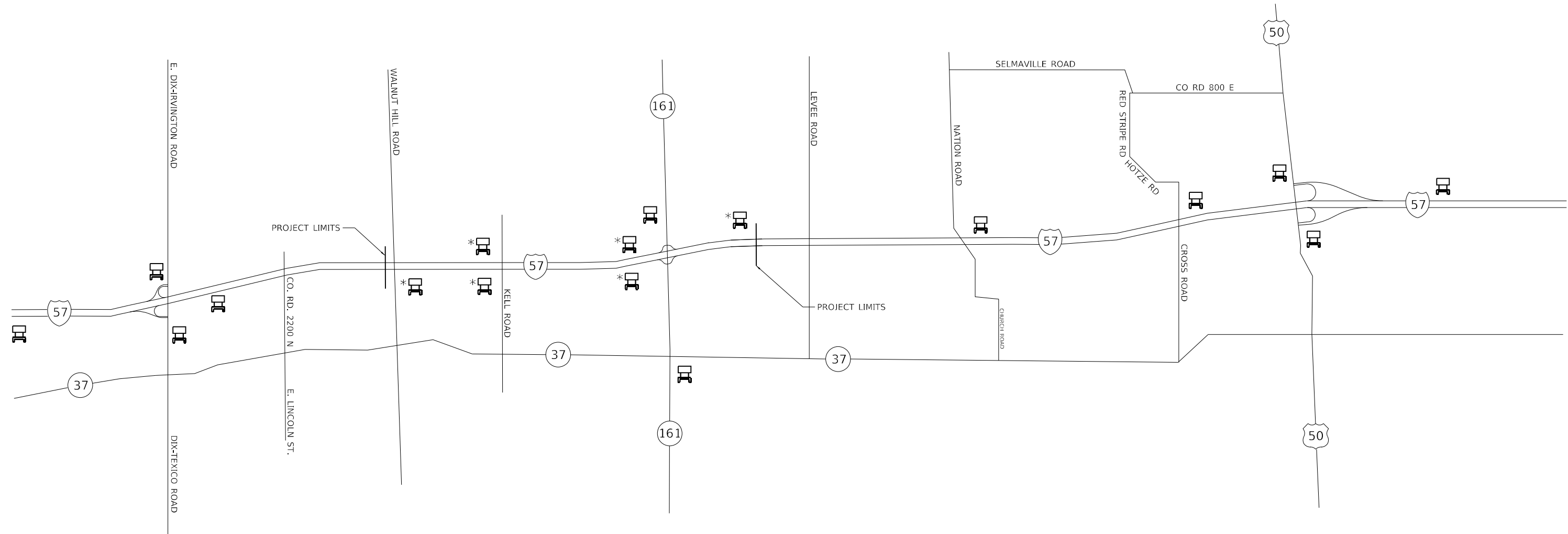
**LONGITUDINAL CONSTRUCTION JOINT**  
 PATCHES MORE THAN 20' IN LENGTH SHALL BE TIED TO ADJACENT PAVEMENT, PCC SHOULDERS OR PCC CURB AND GUTTER WITH #6x24" EPOXY COATED TIE BARS AT 36" CENTERS.

- NOTES:**
- EXISTING LONGITUDINAL REINFORCEMENT SPACING;  $\pm 6\frac{1}{2}$ ".
  - SPACING OF NEW LONGITUDINAL REINFORCEMENT AND NEW LONGITUDINAL TIE BARS SHALL MATCH SPACING OF EXISTING REINFORCEMENT AND SHALL BE TIED TOGETHER WITH A MINIMUM OF TWO TIES PER BAR.
  - SUPPORT CHAIRS SHALL BE REQUIRED WHENEVER PATCH LENGTH EXCEEDS 6'-0"
  - \* EVERY THIRD INTERSECTION MUST BE TIED, WHEN THE MINIMUM CLEARANCE CANNOT BE OBTAINED WITH THE TRANSVERSE REBAR ON TOP, THEN THE TRANSVERSE REBAR SHALL BE TIED TO THE BOTTOM OF THE LONGITUDINAL REBAR.
  - \*\* VARIABLES WHERE  $S_1$  AND  $S_2$  ARE  $2\frac{1}{2}$ " MIN. AND 12" MAX.

DESIGNER NOTE: PROVIDE MAP WITH SIGN LOCATIONS (A, B, ETC.) AND COORDINATE WITH TRAFFIC OPERATIONS ENGINEER.  
 INCLUDE DISTRICT SPECIAL PROVISION "WIDTH RESTRICTION SIGNING"

MODEL: Default  
 FILE NAME: 202303137\_IDOT\_DB\_157CAD\_Sheets\0816F79-shd-Detail\_Cls-A-patching.dgn  
 IL PROF. DESIGN FIRM NO. 184.000899

<b>HMG</b> HMG ENGINEERS, INC. 9360 HOLY CROSS LANE BREESE, ILLINOIS 62230 Engineers & Surveyors (618) 526-9611 IL PROF. DESIGN FIRM NO. 184.000899	USER NAME = mobrien	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAILS CLASS A PATCHING (SPECIAL)		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = 2/16/2022	DATE -	REVISED -	REVISED -	SCALE:	SHEET 2	OF 2 SHEETS	STA.	TO STA.	CONTRACT NO. 76F79 ILLINOIS FED. AID PROJECT NHPP-KC9D1768		



 CHANGEABLE MESSAGE BOARDS

 CHANGEABLE MESSAGE BOARDS WITH DOPPLER SPEED SENSOR AT ONE MILE SPACING

MODEL: D:\p4\h\...  
FILE NAME: 20230313T\_IDOT\_DB\_157\CAD\_Sheets\10576F79-ent-details\_SMAPR.dgn

**HMG** HMG ENGINEERS, INC.  
9360 HOLY CROSS LANE  
BREESE, ILLINOIS 62230  
Engineers + Surveyors  
(618) 526-9611  
IL PROF. DESIGN FIRM NO. 184.000899

USER NAME = mobrien  
DESIGNED -  
DRAWN -  
PLOT SCALE = 100,0000' / in.  
CHECKED -  
PLOT DATE = 2/16/2022

DESIGNED -  
DRAWN -  
CHECKED -  
DATE -

REVISED -  
REVISED -  
REVISED -  
REVISED -

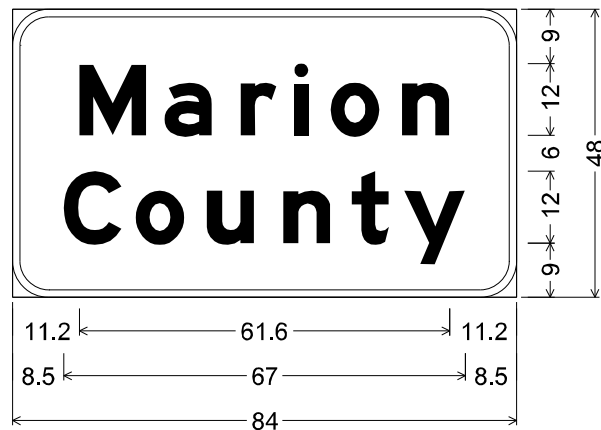
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETAILS  
SMART TRAFFIC MONITORING SYSTEM**

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	183
CONTRACT NO. 76F79				
ILLINOIS FED. AID PROJECT NHPP-KC9D(768)				

FAI-57  
 STA. 1372+21.69 OFFSET 94.13' RT  
 EXISTING GUIDE SIGN ON STRUCTURAL STEEL SIGN SUPPORTS  
 PROPOSED GUIDE SIGN ON EXISTING STRUCTURAL STEEL SIGN SUPPORTS  
 SIGN PANEL REMOVAL - 33.75 SQ FT  
 SIGN PANEL - TYPE 3, 33.75 SQ FT  
 NOTE: TYPE ZZ SHEETING SHALL BE USED FOR ALL GREEN SIGN PANELS



Marion County;  
 6.0" Radius, 1.3" Border, White on, Green;  
 "Marion", E Mod 2K;  
 "County", E Mod 2K;  
 Table of widths and spaces

11.2	<b>M</b>		<b>a</b>		<b>r</b>		<b>i</b>		<b>o</b>		<b>n</b>	11.2
	11.1	3.0	7.9	4.8	6.0	2.9	2.4	3.7	8.2	3.7	7.9	
8.5	<b>C</b>		<b>o</b>		<b>u</b>		<b>n</b>		<b>t</b>		<b>y</b>	8.5
	9.7	2.3	8.2	3.7	7.9	4.8	7.9	3.5	6.3	2.5	10.2	



PHOTO COURTESY OF GOOGLE EARTH

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**HMG** HMG ENGINEERS, INC.  
 9360 HOLY CROSS LANE  
 BREESE, ILLINOIS 62230  
 Engineers + Surveyors  
 (618) 526-9611  
 IL PROF. DESIGN FIRM NO. 184.000899

USER NAME =	mobrien
PLOT SCALE =	4.0000 ' / in.
PLOT DATE =	2/16/2022

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CHECKED -	
DATE -	

REVISED -	
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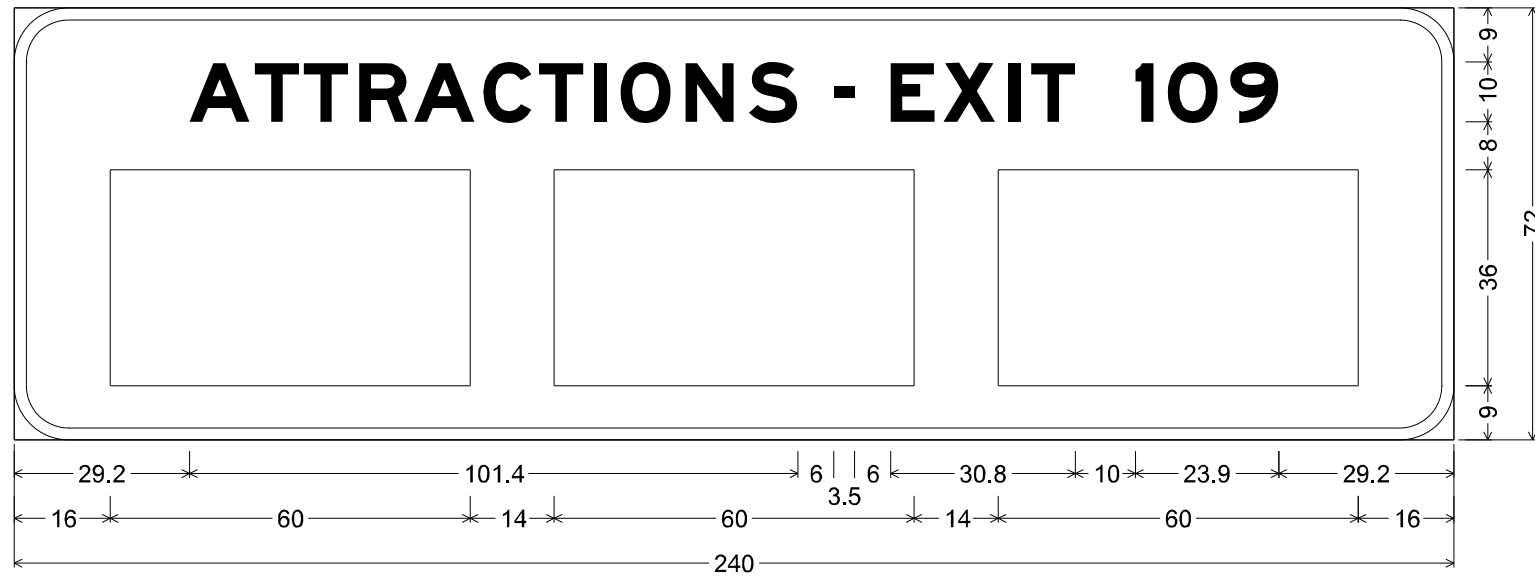
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>DETAILS SIGN PANELS</b>	
SCALE: N.T.S.	SHEET 1 OF 18 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	184
CONTRACT NO. 76F79				
ILLINOIS FED. AID PROJECT NHPP-KC9D(768)				

FAI-57  
 STA. 1448+87.11 OFFSET 91.13' RT  
 EXISTING GUIDE SIGN ON STRUCTURAL STEEL SIGN SUPPORTS  
 PROPOSED GUIDE SIGN ON EXISTING STRUCTURAL STEEL SIGN SUPPORTS

SIGN PANEL REMOVAL - 120 SQ FT  
 SIGN PANEL - TYPE 3, 120 SQ FT  
 NOTE: TYPE AP SHEETING SHALL BE USED FOR ALL BLUE SIGN PANELS



9.0" Radius, 2.0" Border, White on, Blue;  
 "ATTRACTIONS - EXIT 109", E Mod 2K;  
 Table of letter and object lefts

A	T	T	R	A	C	T	I	O	N	S	-	E	X	I	T	1	0	9
29.2	40.1	48.3	57.5	66.7	78.2	87.5	96.7	101.1	111.9	122.5	136.6	146.1	154.9	165.7	169.5	186.9	192.3	202.7

□	□	□
16.0	90.0	164.0



PHOTO COURTESY OF GOOGLE EARTH

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 BREESE, ILLINOIS 62230  
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 IL PROF. DESIGN FIRM NO. 184.000899

USER NAME = mobrien  
 PLOT SCALE = 4,0000 ' / in.  
 PLOT DATE = 2/16/2022

DESIGNED -  
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 CHECKED -  
 DATE -

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 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

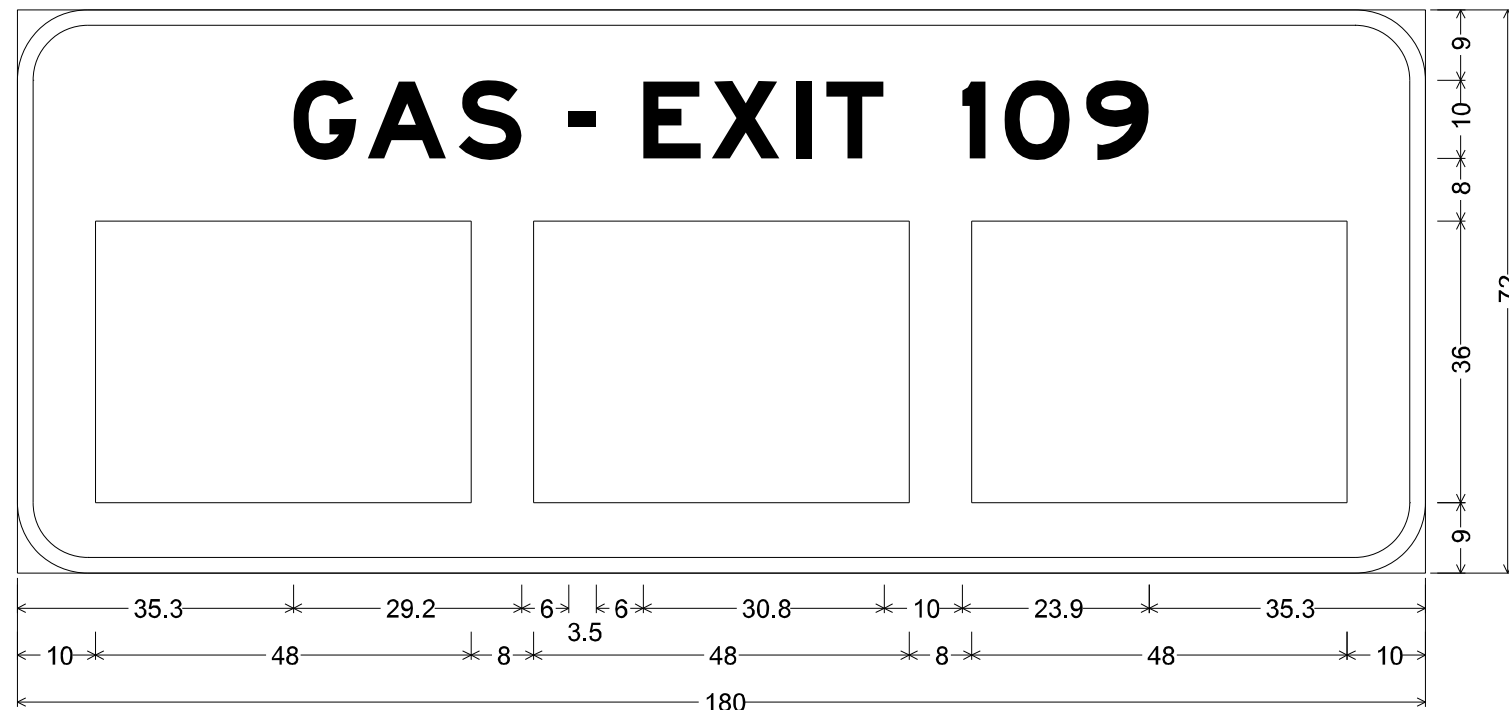
DETAILS  
 SIGN PANELS

SCALE: N.T.S. SHEET 2 OF 18 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	185
CONTRACT NO. 76F79			ILLINOIS FED. AID PROJECT NHPP-KC9D(768)	

FAI-57  
 STA. 1456+84.94 OFFSET 96.98' RT  
 EXISTING GUIDE SIGN ON STRUCTURAL STEEL SIGN SUPPORTS  
 PROPOSED GUIDE SIGN ON EXISTING STRUCTURAL STEEL SIGN SUPPORTS

SIGN PANEL REMOVAL - 90 SQ FT  
 SIGN PANEL - TYPE 3, 90 SQ FT  
 NOTE: TYPE AP SHEETING SHALL BE USED FOR ALL BLUE SIGN PANELS



9.0" Radius, 2.0" Border, White on Blue;  
 "GAS - EXIT 109", E Mod 2K;  
 Table of letter and object lefts

<b>G</b>	<b>A</b>	<b>S</b>	<b>-</b>	<b>E</b>	<b>X</b>	<b>I</b>	<b>T</b>	<b>1</b>	<b>0</b>	<b>9</b>
35.3	44.8	56.4	70.5	80.0	88.8	99.6	103.4	120.8	126.2	136.6
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>								
10.0	66.0	122.0								



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 IL PROF. DESIGN FIRM NO. 184.000899

USER NAME = mobrien  
 DESIGNED -  
 DRAWN -  
 PLOT SCALE = 4.0000 ' / in.  
 CHECKED -  
 PLOT DATE = 2/16/2022  
 DATE -

REVISOR -  
 REVISED -  
 REVISIONS -  
 REVISIONS -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

DETAILS  
 SIGN PANELS

SCALE: N.T.S. SHEET 3 OF 18 SHEETS STA. TO STA.

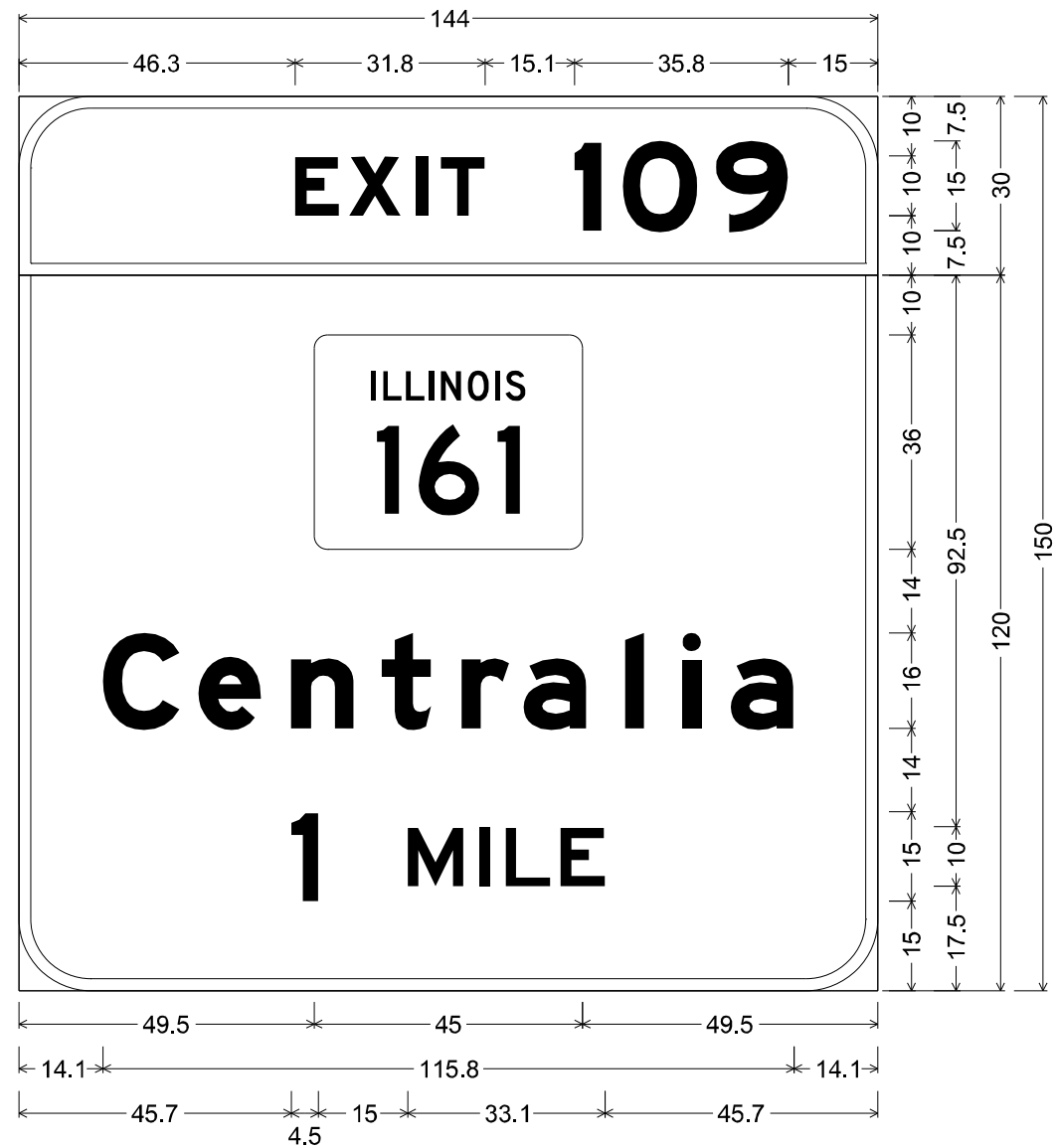
F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1.1-1,1-2.2)RS-1	MARION	484	186
CONTRACT NO. 76F79			ILLINOIS FED. AID PROJECT NHPP-KC9D(768)	

FAI-57  
 STA. 1466+02.66 FAI-57 OFFSET 97.30' RT  
 EXISTING GUIDE SIGN ON STRUCTURAL STEEL SIGN SUPPORTS  
 PROPOSED GUIDE SIGN ON EXISTING STRUCTURAL STEEL SIGN SUPPORTS

SIGN PANEL REMOVAL - 150 SQ FT

SIGN PANEL - TYPE 3, 150 SQ FT

NOTE: TYPE ZZ SHEETING SHALL BE USED FOR ALL GREEN SIGN PANELS



12.0" Radius, 2.0" Border, White on, Green;  
 "EXIT", E Mod 2K 120% spacing; " 109", E Mod 2K;

12.0" Radius, 2.0" Border, White on, Green;  
 "Centralia", E Mod 2K; "1 MILE", E 2K;

Table of letter and object lefts

E	X	I	T	1	O	9
46.3	55.4	66.6	70.7	93.2	101.3	116.8

ILLINOIS 161
49.5

C	e	n	t	r	a	i	i	a
14.1	30.1	45.6	60.8	74.2	84.6	101.6	111.2	119.4

1	M	I	L	E
45.7	65.2	77.2	81.6	90.8



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MODEL Default  
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 Engineers + Surveyors (618) 526-9611  
 IL PROF. DESIGN FIRM NO. 184.000899

USER NAME = mobrien	DESIGNED -	REVISED -
PLOT SCALE = 4.0000 ' / in.	DRAWN -	REVISED -
PLOT DATE = 2/16/2022	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

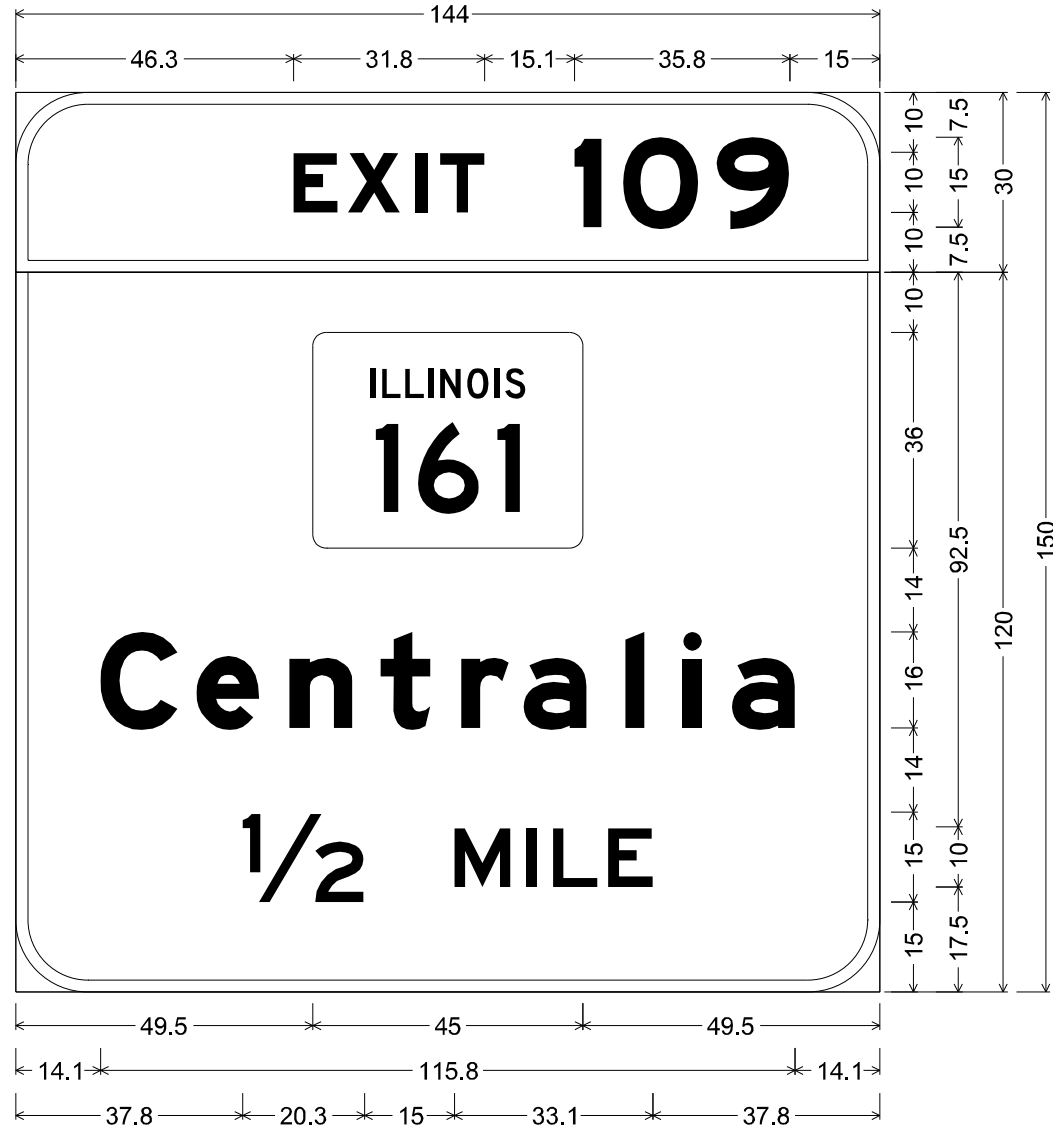
DETAILS  
 SIGN PANELS

SCALE: N.T.S. SHEET 4 OF 18 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	187
CONTRACT NO. 76F79			ILLINOIS FED. AID PROJECT NHPP-KC9D(768)	



FAI-57  
 STA. 1495+03.67 OFFSET 94.94' RT  
 EXISTING GUIDE SIGN ON STRUCTURAL STEEL SIGN SUPPORTS  
 PROPOSED GUIDE SIGN ON EXISTING STRUCTURAL STEEL SIGN SUPPORTS  
 SIGN PANEL REMOVAL - 150 SQ FT  
 SIGN PANEL - TYPE 3, 150 SQ FT  
 NOTE: TYPE ZZ SHEETING SHALL BE USED FOR ALL GREEN SIGN PANELS



12.0" Radius, 2.0" Border, White on, Green;  
 "EXIT", E Mod 2K 120% spacing; " 109", E Mod 2K;

12.0" Radius, 2.0" Border, White on, Green;  
 "Centralia", E Mod 2K; "1/2 MILE", E 2K;

Table of letter and object lefts

E	X	I	T	1	O	9
46.3	55.4	66.6	70.7	93.2	101.3	116.8

ILLINOIS
161
49.5

C	e	n	t	r	a	i	a	
14.1	30.1	45.6	60.8	74.2	84.6	101.6	111.2	119.4

1/2	M	I	L	E
37.8	73.1	85.1	89.5	98.7



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MODEL Default  
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 (618) 526-9611  
 IL PROF. DESIGN FIRM NO. 184.000899

USER NAME = mobrien  
 PLOT SCALE = 4,0000 ' / in.  
 PLOT DATE = 2/16/2022

DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

REVISED -  
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 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

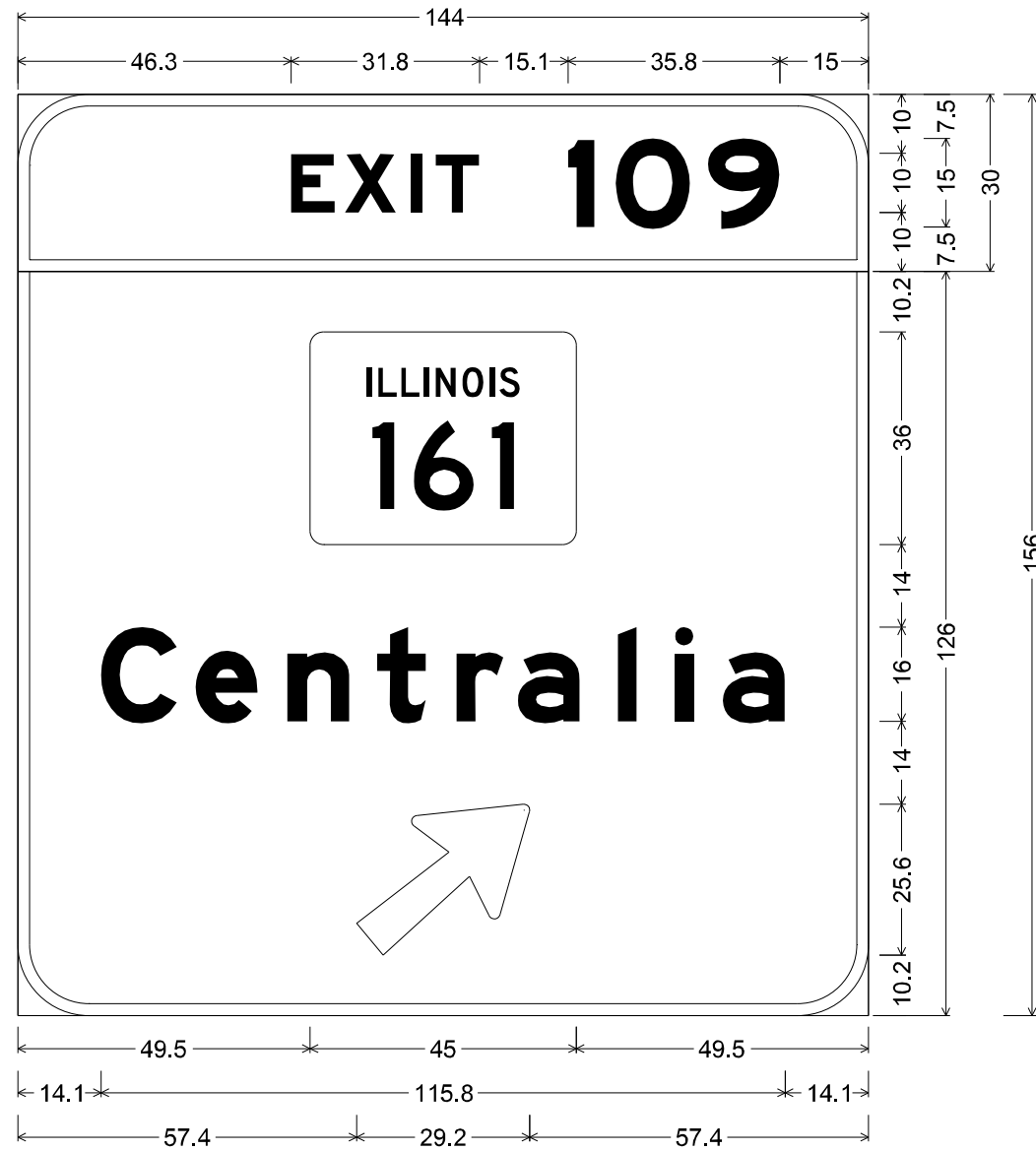
DETAILS  
 SIGN PANELS

SCALE: N.T.S. SHEET 5 OF 18 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	188
CONTRACT NO. 76F79				
ILLINOIS FED. AID PROJECT NHPPK9D(768)				

FAI-57  
 STA. 1515+59.96 OFFSET 96.17' RT  
 EXISTING GUIDE SIGN ON STRUCTURAL STEEL SIGN SUPPORTS  
 PROPOSED GUIDE SIGN ON EXISTING STRUCTURAL STEEL SIGN SUPPORTS

SIGN PANEL REMOVAL - 156 SQ FT  
 SIGN PANEL - TYPE 3, 156 SQ FT  
 NOTE: TYPE ZZ SHEETING SHALL BE USED FOR ALL GREEN SIGN PANELS



12.0" Radius, 2.0" Border, White on, Green;  
 "EXIT", E Mod 2K 120% spacing; " 109", E Mod 2K;

12.0" Radius, 2.0" Border, White on, Green;  
 "Centralia", E Mod 2K; Arrow 160 - 35.0" 40';

Table of letter and object lefts

<b>E</b>	<b>X</b>	<b>I</b>	<b>T</b>	<b>1</b>	<b>0</b>	<b>9</b>
46.3	55.4	66.6	70.7	93.2	101.3	116.8

<b>ILLINOIS</b> <b>161</b>
49.5

<b>C</b>	<b>e</b>	<b>n</b>	<b>t</b>	<b>r</b>	<b>a</b>	<b>l</b>	<b>i</b>	<b>a</b>
14.1	30.1	45.6	60.8	74.2	84.6	101.6	111.2	119.4

<b>↑</b>
57.4



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MODEL Default  
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 Engineers + Surveyors  
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 IL PROF. DESIGN FIRM NO. 184.000899

USER NAME = mobrien  
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 CHECKED -  
 PLOT DATE = 2/16/2022  
 DATE -

REVISIED -  
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

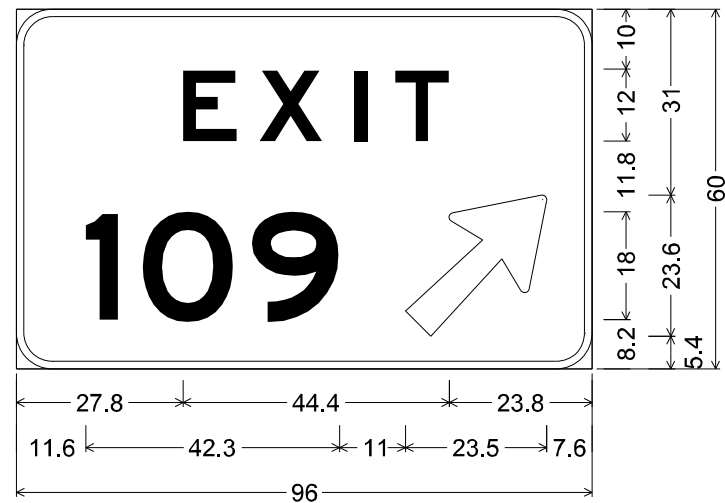
DETAILS  
 SIGN PANELS

SCALE: N.T.S. SHEET 6 OF 18 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	189
CONTRACT NO. 76F79				
ILLINOIS FED. AID PROJECT NHPP-KC9D(768)				

FAI-57  
 STA. 1523+23.48 OFFSET 72.97' RT  
 EXISTING GUIDE SIGN ON STRUCTURAL STEEL SIGN SUPPORTS  
 PROPOSED GUIDE SIGN ON EXISTING STRUCTURAL STEEL SIGN SUPPORTS  
 SIGN PANEL REMOVAL - 40 SQ FT  
 SIGN PANEL - TYPE 3, 40 SQ FT  
 NOTE: TYPE ZZ SHEETING SHALL BE USED FOR ALL GREEN SIGN PANELS

STA. 1543+74.14 OFFSET 78.36' LT  
 EXISTING GUIDE SIGN ON STRUCTURAL STEEL SIGN SUPPORTS  
 PROPOSED GUIDE SIGN ON EXISTING STRUCTURAL STEEL SIGN SUPPORTS  
 SIGN PANEL REMOVAL - 40 SQ FT  
 SIGN PANEL - TYPE 3, 40 SQ FT  
 NOTE: TYPE ZZ SHEETING SHALL BE USED FOR ALL GREEN SIGN PANELS



6.0" Radius, 1.3" Border, White on, Green;  
 "EXIT", E 2K 225% spacing; "109", E 2K;  
 Arrow 133 - 30.0" 45';  
 Table of letter and object lefts

E	X	I	T
27.8	40.6	56.4	63.2
1	0	9	↗
11.6	21.1	39.3	64.9



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 IL PROF. DESIGN FIRM NO. 184.000899

USER NAME = mobrien  
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REVISER -  
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

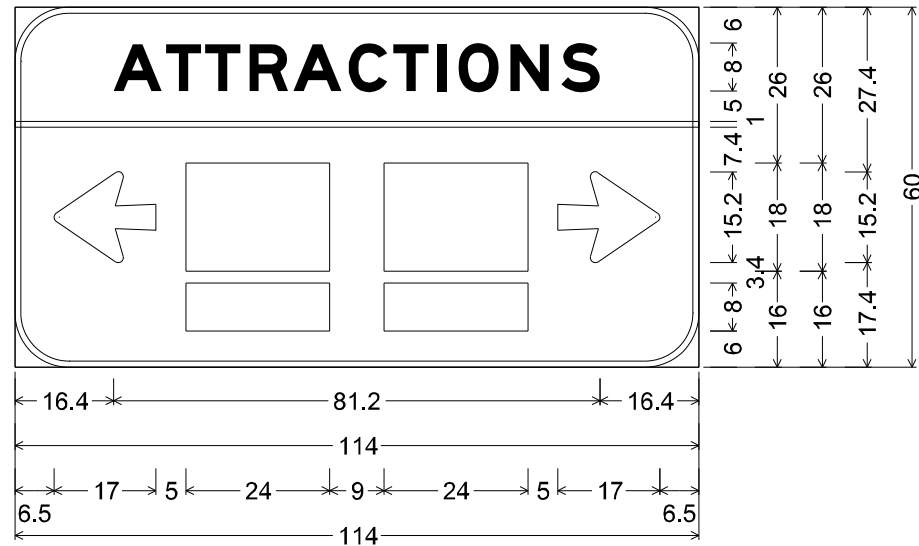
DETAILS  
 SIGN PANELS

SCALE: N.T.S. SHEET 7 OF 18 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	190
CONTRACT NO. 76F79				
ILLINOIS FED. AID PROJECT NHPP-KC9D(768)				

RAMP A  
 STA. 114+52.51 OFFSET 13.00' RT  
 EXISTING GUIDE SIGN ON STRUCTURAL STEEL SIGN SUPPORTS

SIGN PANEL REMOVAL - 47.5 SQ FT  
 SIGN PANEL - TYPE 3, 47.5 SQ FT  
 NOTE: TYPE AP SHEETING SHALL BE USED FOR ALL BLUE SIGN PANELS



9.0" Radius, 1.0" Border, White on, Blue;  
 "ATTRACTIONS", E Mod 2K; Arrow 80 - 17.0" 180';  
 Arrow 80 - 17.0" 0';  
 Table of letter and object lefts

<b>A</b>	<b>T</b>	<b>T</b>	<b>R</b>	<b>A</b>	<b>C</b>	<b>T</b>	<b>I</b>	<b>O</b>	<b>N</b>	<b>S</b>
16.4	25.2	31.7	39.1	46.4	55.6	63.1	70.4	74.0	82.6	91.1

-0.0			
←	□	□	→
6.5	28.5	61.5	90.5
□	□		
28.5	61.5		



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MODEL: Default  
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 Engineers + Surveyors  
 (618) 526-9611  
 IL PROF. DESIGN FIRM NO. 184.000899

USER NAME = mobrien  
 DESIGNED -  
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 CHECKED -  
 PLOT DATE = 2/16/2022  
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 DRAWN -  
 CHECKED -  
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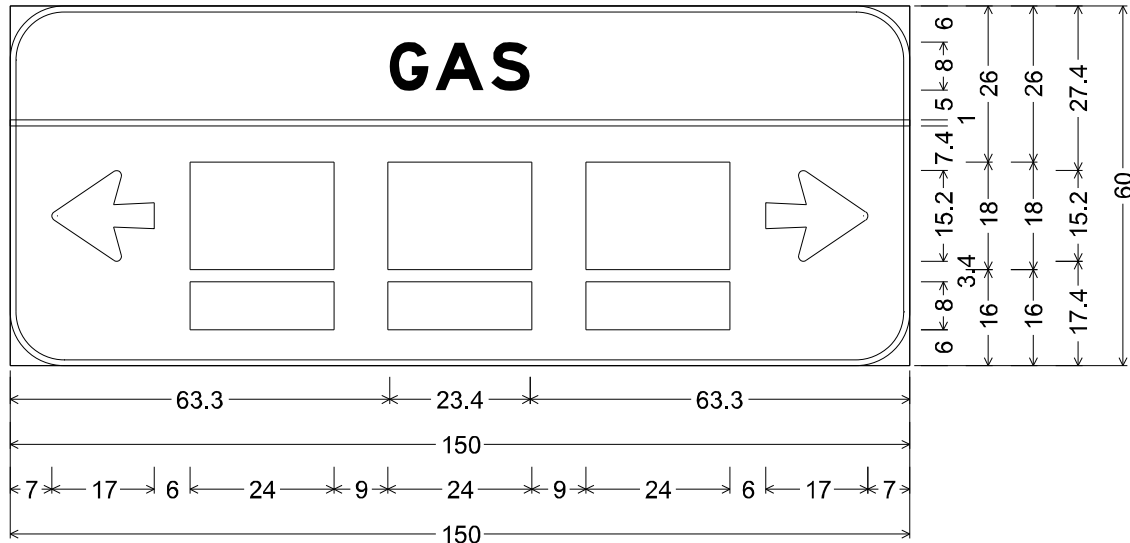
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

DETAILS  
 SIGN PANELS

SCALE: N.T.S. SHEET 8 OF 18 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	191
CONTRACT NO. 76F79				
ILLINOIS FED. AID PROJECT NHPP-KC9D(768)				

RAMP A  
 STA. 116+55.89 OFFSET 13.00' RT  
 EXISTING GUIDE SIGN ON STRUCTURAL STEEL SIGN SUPPORTS  
 SIGN PANEL REMOVAL - 62.5 SQ FT  
 SIGN PANEL - TYPE 3, 62.5 SQ FT  
 NOTE: TYPE AP SHEETING SHALL BE USED FOR ALL BLUE SIGN PANELS



9.0" Radius, 1.0" Border, White on, Blue;  
 "GAS", E Mod 2K; Arrow 80 - 17.0" 180'; Arrow 80 - 17.0" 0';  
 Table of letter and object lefts

<b>G</b>	<b>A</b>	<b>S</b>		
63.3	70.9	80.2		
-				
-0.0				
↔	□	□	□	↔
7.0	30.0	63.0	96.0	126.0
▬	▬	▬		
30.0	63.0	96.0		



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MODEL: Default  
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 Engineers + Surveyors  
 (618) 526-9611  
 IL PROF. DESIGN FIRM NO. 184.000899

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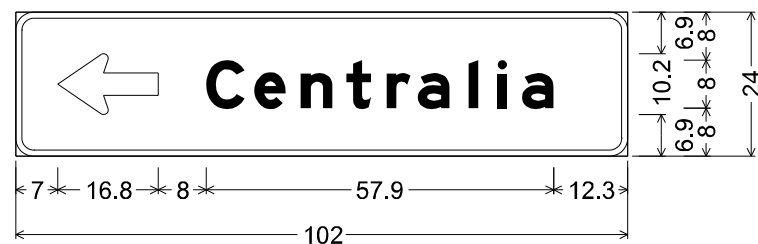
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**DETAILS  
 SIGN PANELS**

SCALE: N.T.S. SHEET 9 OF 18 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	192
CONTRACT NO. 76F79			ILLINOIS FED. AID PROJECT NHPP-KC9D(768)	

RAMP A  
 STA. 118+55.18 OFFSET 16.30' RT  
 EXISTING GUIDE SIGN ON STRUCTURAL STEEL SIGN SUPPORTS  
 PROPOSED GUIDE SIGN ON EXISTING STRUCTURAL STEEL SIGN SUPPORTS  
  
 SIGN PANEL REMOVAL - 17 SQ FT  
 SIGN PANEL - TYPE 2, 17 SQ FT  
 NOTE: TYPE ZZ SHEETING SHALL BE USED FOR ALL GREEN SIGN PANELS



3.0" Radius, 1.0" Border, White on, Green;  
 Standard Arrow Custom 16.8" X 10.1" 180°;  
 "Centralia", E Mod 2K;  
 Table of widths and spaces

7.0	16.8
-----	------

7.9	<b>C</b>	6.5	1.6	<b>e</b>	5.2	2.5	<b>n</b>	5.3	2.3	<b>t</b>	4.2	2.5	<b>r</b>	4.0	1.2	<b>a</b>	5.3	3.2	<b>l</b>	1.6	3.2	<b>i</b>	1.6	2.5	<b>a</b>	5.3	12.3
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 9360 HOLY CROSS LANE  
 BREESE, ILLINOIS 62230  
 Engineers + Surveyors  
 (618) 526-9611  
 IL PROF. DESIGN FIRM NO. 184.000899

USER NAME = mobrien	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 4,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 2/16/2022	DATE -	REVISED -

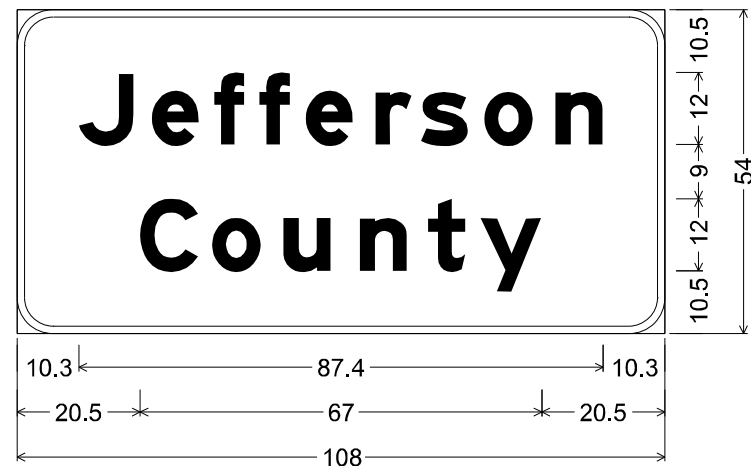
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

DETAILS  
 SIGN PANELS

SCALE: N.T.S. SHEET 10 OF 18 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	193
CONTRACT NO. 76F79			ILLINOIS FED. AID PROJECT NHPP-KC9D(768)	

FAI-57  
 STA. 1374+12.03 OFFSET 80.36' LT  
 EXISTING GUIDE SIGN ON STRUCTURAL STEEL SIGN SUPPORTS  
 PROPOSED GUIDE SIGN ON EXISTING STRUCTURAL STEEL SIGN SUPPORTS  
 SIGN PANEL REMOVAL - 40.5 SQ FT  
 SIGN PANEL - TYPE 3, 40.5 SQ FT  
 NOTE: TYPE ZZ SHEETING SHALL BE USED FOR ALL GREEN SIGN PANELS



6.0" Radius, 1.3" Border, White on, Green;  
 "Jefferson", E Mod 2K; "County", E Mod 2K;  
 Table of widths and spaces

10.3	J	9.1	3.0	e	8.0	2.5	f	5.0	2.5	f	5.1	2.6	e	7.9	3.8	r	6.0	1.5	s	7.9	2.7	o	8.1	3.8	n	7.9	10.3
20.5	C	9.7	2.3	o	8.2	3.7	u	7.9	4.8	n	7.9	3.5	t	6.3	2.5	y	10.2	20.5									



PHOTO COURTESY OF GOOGLE EARTH

MODEL: Default  
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**HMG** HMG ENGINEERS, INC.  
 9360 HOLY CROSS LANE  
 BREESE, ILLINOIS 62230  
 Engineers + Surveyors  
 (618) 526-9611  
 IL PROF. DESIGN FIRM NO. 184.000899

USER NAME = mobrien  
 DESIGNED -  
 DRAWN -  
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 CHECKED -  
 PLOT DATE = 2/16/2022  
 DATE -

DESIGNED -  
 DRAWN -  
 CHECKED -  
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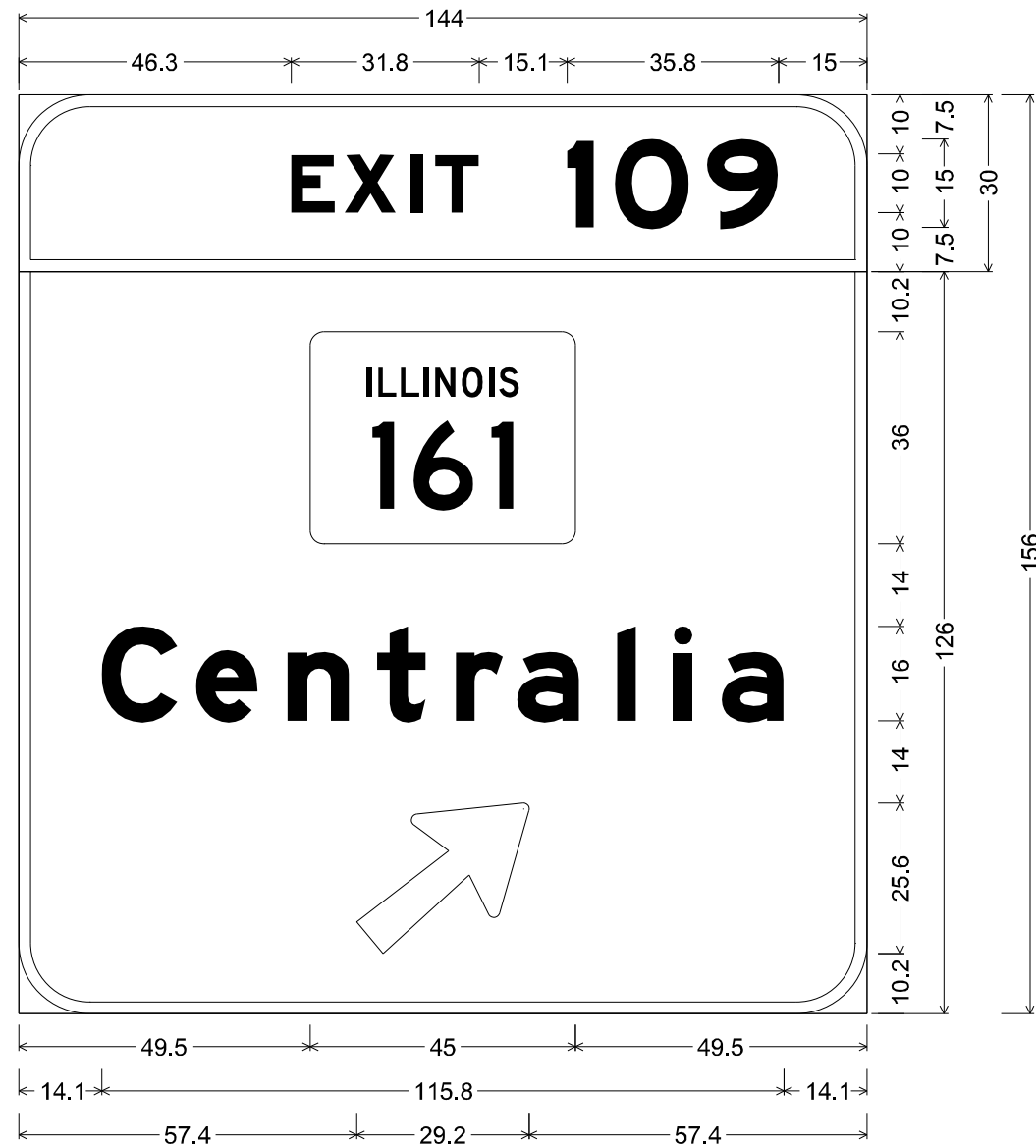
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**DETAILS  
 SIGN PANELS**  
 SCALE: N.T.S. SHEET 11 OF 18 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	194
CONTRACT NO. 76F79			ILLINOIS FED. AID PROJECT NHPP-KC9D(768)	

FAI-57  
 STA. 1551+67.35 OFFSET 78.36' LT  
 EXISTING GUIDE SIGN ON STRUCTURAL STEEL SIGN SUPPORTS  
 PROPOSED GUIDE SIGN ON EXISTING STRUCTURAL STEEL SIGN SUPPORTS

SIGN PANEL REMOVAL - 156 SQ FT  
 SIGN PANEL - TYPE 3, 156 SQ FT  
 NOTE: TYPE ZZ SHEETING SHALL BE USED FOR ALL GREEN SIGN PANELS



12.0" Radius, 2.0" Border, White on, Green;  
 "EXIT", E Mod 2K 120% spacing; " 109", E Mod 2K;

12.0" Radius, 2.0" Border, White on, Green;  
 "Centralia", E Mod 2K; Arrow 160 - 35.0" 40';

Table of letter and object lefts

E	X	I	T	1	O	9
46.3	55.4	66.6	70.7	93.2	101.3	116.8

ILLINOIS 161
49.5

C	e	n	t	r	a	l	i	a
14.1	30.1	45.6	60.8	74.2	84.6	101.6	111.2	119.4

↑
57.4



PHOTO COURTESY OF GOOGLE EARTH

MODEL: Default  
 FILE NAME: 633137\_IDOT\_DB\_157CAD\_Sheet1087679-ent-Detail\_SignPanel.dgn

**HMG** HMG ENGINEERS, INC.  
 9360 HOLY CROSS LANE  
 BREESE, ILLINOIS 62230  
 Engineers + Surveyors  
 (618) 526-9611  
 IL PROF. DESIGN FIRM NO. 184.000899

USER NAME = mobrien  
 DESIGNED -  
 DRAWN -  
 PLOT SCALE = 4,0000 ' / in.  
 CHECKED -  
 PLOT DATE = 2/16/2022

REVISIED -  
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 REVISIED -  
 REVISIED -

DATE -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

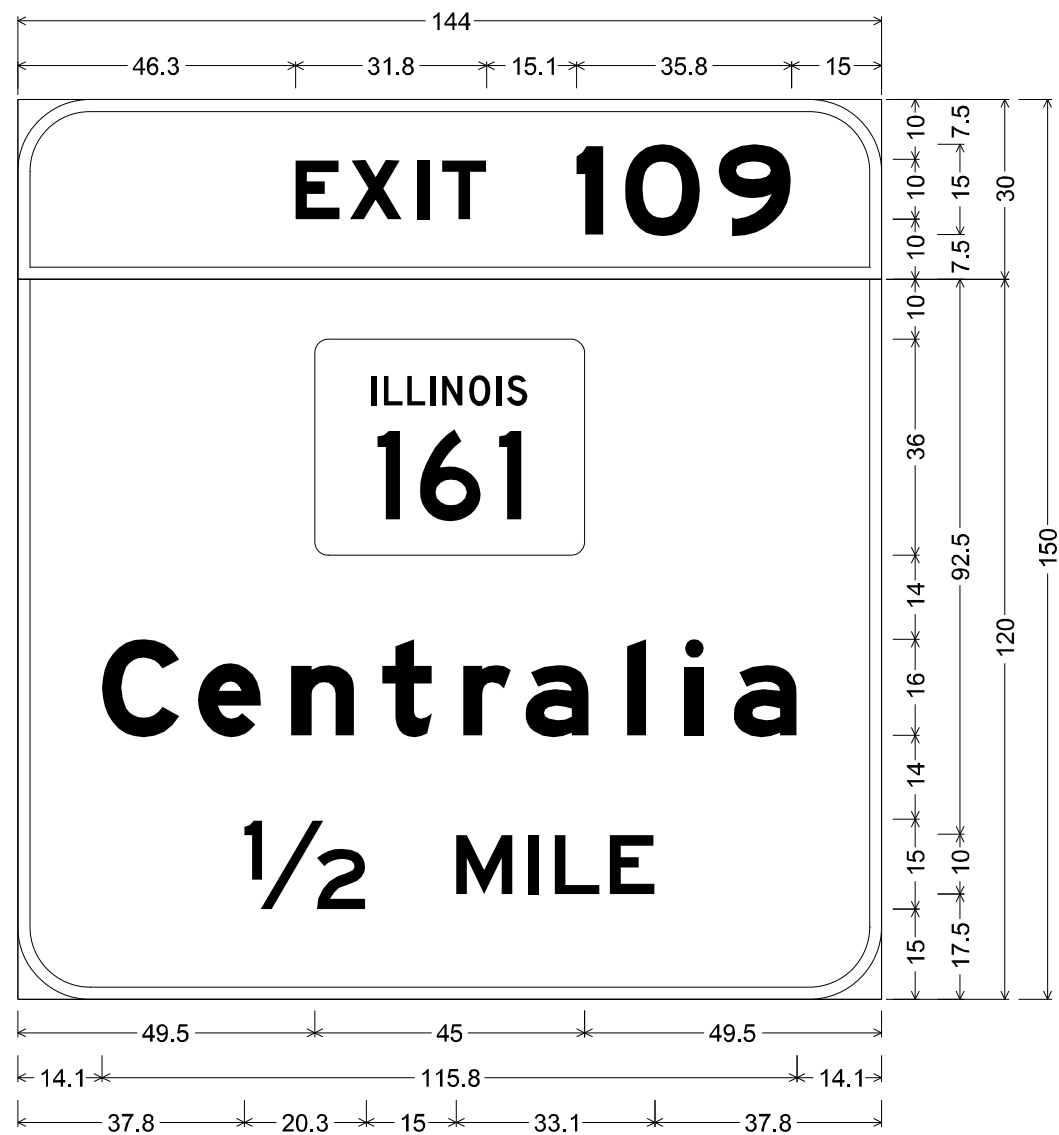
DETAILS  
 SIGN PANELS

SCALE: N.T.S. SHEET 12 OF 18 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	195
CONTRACT NO. 76F79				
ILLINOIS FED. AID PROJECT NHPP-KC9D(768)				



FAI-57  
 STA. 1571+90.57 OFFSET 101.32' LT  
 EXISTING GUIDE SIGN ON STRUCTURAL STEEL SIGN SUPPORTS  
 PROPOSED GUIDE SIGN ON EXISTING STRUCTURAL STEEL SIGN SUPPORTS  
 SIGN PANEL REMOVAL - 150 SQ FT  
 SIGN PANEL - TYPE 3, 150 SQ FT  
 NOTE: TYPE ZZ SHEETING SHALL BE USED FOR ALL GREEN SIGN PANELS



12.0" Radius, 2.0" Border, White on, Green;  
 "EXIT", E Mod 2K 120% spacing; " 109", E Mod 2K;

12.0" Radius, 2.0" Border, White on, Green;  
 "Centralia", E Mod 2K; "1/2 MILE", E 2K;

Table of letter and object lefts

E	X	I	T	I	O	9
46.3	55.4	66.6	70.7	93.2	101.3	116.8

161
49.5

C	e	n	t	r	a	l	i	a
14.1	30.1	45.6	60.8	74.2	84.6	101.6	111.2	119.4

1/2	M	I	L	E
37.8	73.1	85.1	89.5	98.7



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 IL PROF. DESIGN FIRM NO. 184.000899

USER NAME = mobrien  
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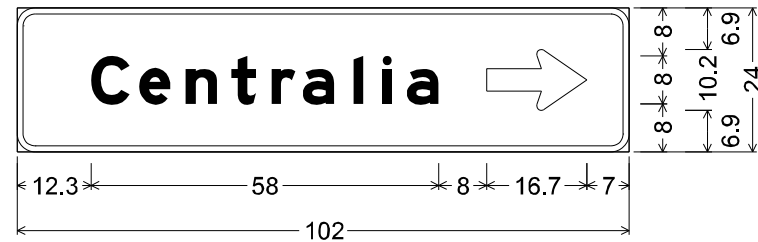
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

DETAILS  
 SIGN PANELS

SCALE: N.T.S. SHEET 13 OF 18 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	196
CONTRACT NO. 76F79				
ILLINOIS FED. AID PROJECT NHPP-KC9D(768)				

RAMP C  
 STA. 317+65.85 OFFSET 17.15' RT  
 EXISTING GUIDE SIGN ON STRUCTURAL STEEL SIGN SUPPORTS  
 PROPOSED GUIDE SIGN ON EXISTING STRUCTURAL STEEL SIGN SUPPORTS  
 SIGN PANEL REMOVAL - 17 SQ FT  
 SIGN PANEL - TYPE 2, 17 SQ FT  
 NOTE: TYPE ZZ SHEETING SHALL BE USED FOR ALL GREEN SIGN PANELS



3.0" Radius, 1.0" Border, White on, Green;  
 "Centralia", E Mod 2K;  
 Standard Arrow Custom 16.8" X 10.1" 0';  
 Table of widths and spaces

	<b>C</b>		<b>e</b>		<b>n</b>		<b>t</b>		<b>r</b>		<b>a</b>		<b>l</b>		<b>i</b>		<b>a</b>	
	12.3	6.5	1.5	5.3	2.5	5.3	2.3	4.2	2.5	4.0	1.2	5.3	3.2	1.6	3.2	1.6	2.5	5.3
		7.9	16.8	7.0														



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MODEL: Default  
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**HMG** HMG ENGINEERS, INC.  
 9360 HOLY CROSS LANE  
 BREESE, ILLINOIS 62230  
 Engineers + Surveyors  
 (618) 526-9611  
 IL PROF. DESIGN FIRM NO. 184.000899

USER NAME = mobrien  
 PLOT SCALE = 4,0000 ' / in.  
 PLOT DATE = 2/16/2022

DESIGNED -  
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

DETAILS  
 SIGN PANELS

SCALE: N.T.S. SHEET 14 OF 18 SHEETS STA. TO STA.

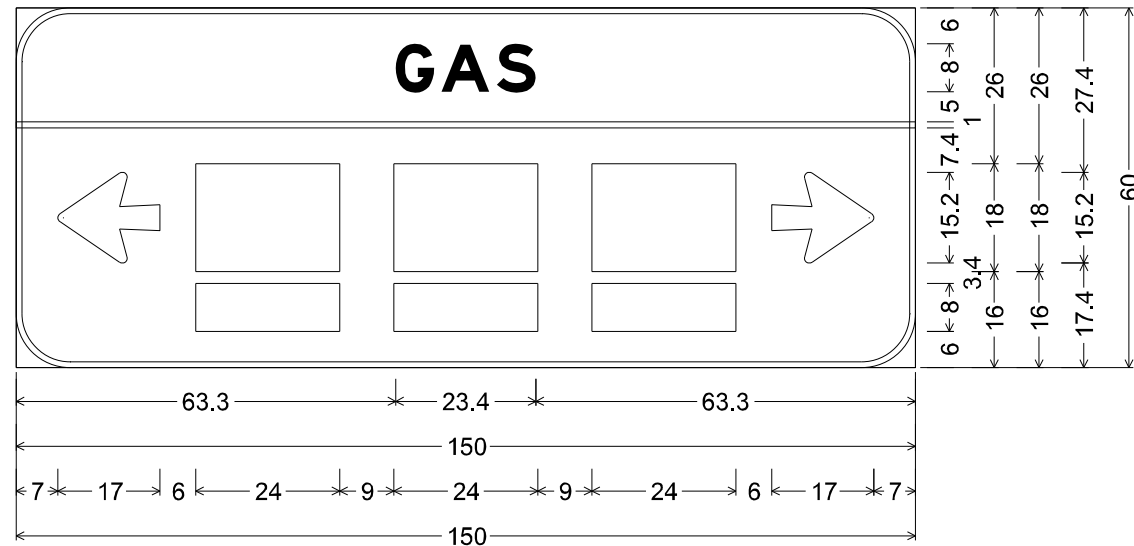
F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	197
CONTRACT NO. 76F79			ILLINOIS FED. AID PROJECT NHPP-KC9D(768)	

RAMP C  
 STA. 315+64.08 OFFSET 13.00' RT  
 EXISTING GUIDE SIGN ON STRUCTURAL STEEL SIGN SUPPORTS

SIGN PANEL REMOVAL - 62.5 SQ FT

SIGN PANEL - TYPE 3, 62.5 SQ FT

NOTE: TYPE AP SHEETING SHALL BE USED FOR ALL BLUE SIGN PANELS



9.0" Radius, 1.0" Border, White on, Blue;  
 "GAS", E Mod 2K; Arrow 80 - 17.0" 180'; Arrow 80 - 17.0" 0';

Table of letter and object lefts

<b>G</b>	<b>A</b>	<b>S</b>
63.3	70.9	80.2

-
-0.0

←	□	□	□	→
7.0	30.0	63.0	96.0	126.0

□	□	□
30.0	63.0	96.0



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MODEL Path: \\s:\projects\76F79\157\CAD\_Sheets\1576F79\1576F79-01-Details\_SignPanel.dgn

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 Engineers + Surveyors (618) 526-9611  
 IL PROF. DESIGN FIRM NO. 184.000899

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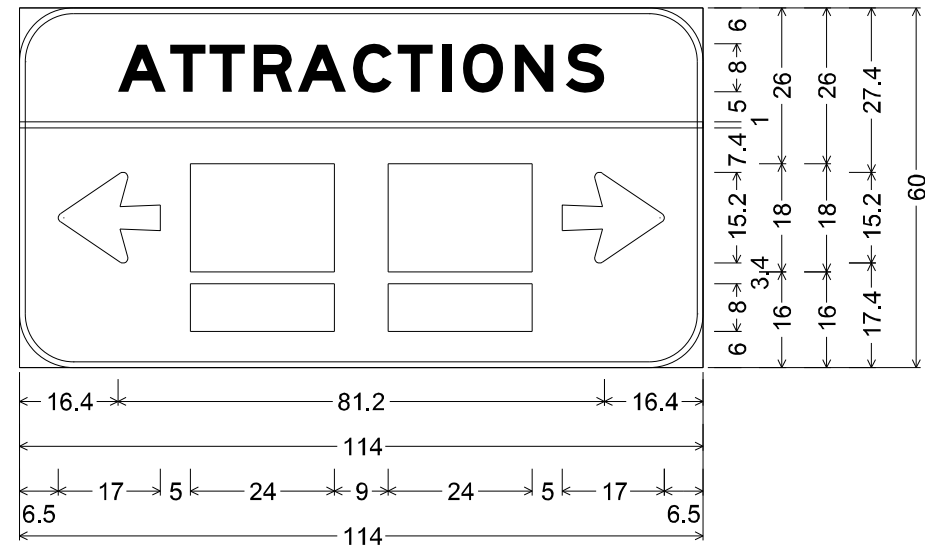
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

**DETAILS**  
**SIGN PANELS**  
 SCALE: N.T.S. SHEET 15 OF 18 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	198
CONTRACT NO. 76F79				
ILLINOIS FED. AID PROJECT NHPP-KC9D(768)				

RAMP C  
 STA. 312+66.48 OFFSET 13.00' RT  
 EXISTING GUIDE SIGN ON STRUCTURAL STEEL SIGN SUPPORTS  
 SIGN PANEL REMOVAL - 47.5 SQ FT  
 SIGN PANEL - TYPE 3, 47.5 SQ FT  
 NOTE: TYPE AP SHEETING SHALL BE USED FOR ALL BLUE SIGN PANELS



9.0" Radius, 1.0" Border, White on, Blue;  
 "ATTRACTIONS", E Mod 2K; Arrow 80 - 17.0" 180";  
 Arrow 80 - 17.0" 0";  
 Table of letter and object lefts

<b>A</b>	<b>T</b>	<b>T</b>	<b>R</b>	<b>A</b>	<b>C</b>	<b>T</b>	<b>I</b>	<b>O</b>	<b>N</b>	<b>S</b>
16.4	25.2	31.7	39.1	46.4	55.6	63.1	70.4	74.0	82.6	91.1
-0.0										
←	□	□	→							
6.5	28.5	61.5	90.5							
▬	▬									
28.5	61.5									



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MODEL: Default  
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 Engineers + Surveyors  
 (618) 526-9611  
 IL PROF. DESIGN FIRM NO. 184.000899

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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

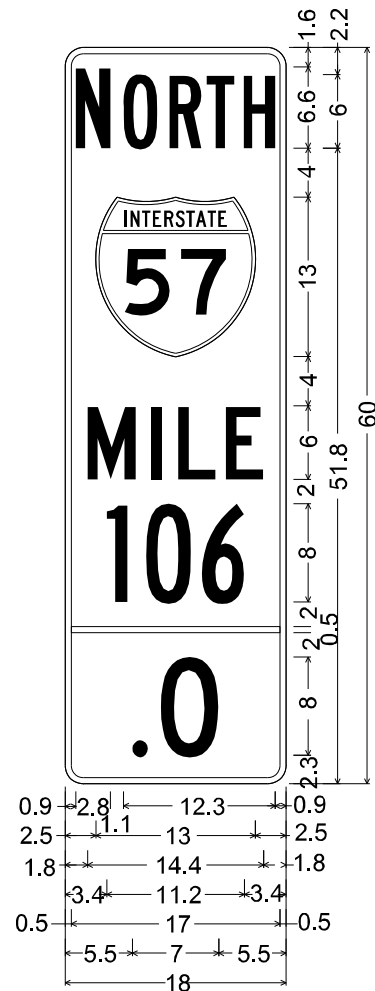
**DETAILS**  
**SIGN PANELS**

SCALE: N.T.S. SHEET 16 OF 18 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	199
CONTRACT NO. 76F79				
ILLINOIS FED. AID PROJECT NHPP-KC9D(768)				

FAI-57 NORTHBOUND  
 EXISTING GUIDE SIGN ON TELESCOPING STEEL SIGN SUPPORTS  
 D10-5

NOTE: TYPE ZZ SHEETING SHALL BE USED FOR ALL GREEN SIGN PANELS



D10-5M\_18x60;  
 1.5" Radius, 0.5" Border, White on Green;  
 "NORTH", B 2K specified length;  
 "MILE", C 2K specified length;  
 "106", B 2K; ".0", C 2K;

NORTHBOUND					
STATION	WHOLE MILE	SPECIFIC DECIMAL	REMOVE SIGN PANEL TYPE 1 SQ FT	SIGN PANEL TYPE I SQ FT	MILE POST MARKER ASSEMBLY EACH
1374+13.00	106	0	7.5	7.5	
1384+69.00	106	0.2			1.0
1395+25.00	106	0.4			1.0
1405+81.00	106	0.6			1.0
1416+37.00	106	0.8			1.0
1426+93.00	107	0	7.5	7.5	
1437+49.00	107	0.2			1.0
1448+05.00	107	0.4			1.0
1458+61.00	107	0.6			1.0
1469+17.00	107	0.8			1.0
1479+73.00	108	0	7.5	7.5	
1490+29.00	108	0.2			1.0
1500+85.00	108	0.4			1.0
1511+41.00	108	0.6			1.0
1521+97.00	108	0.8			1.0
1532+53.00	109	0	7.5	7.5	
1543+09.00	109	0.2			1.0
1564+21.00	109	0.4			1.0
1564+21.00	109	0.6			1.0
1574+77.00	109	0.8			1.0
STAGE 1 TOTAL			30.0	30.0	16.0



PHOTO COURTESY OF GOOGLE EARTH

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 STA. TO STA.

**HMG** HMG ENGINEERS, INC.  
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 BREESE, ILLINOIS 62230  
 Engineers + Surveyors (618) 526-9611  
 IL PROF. DESIGN FIRM NO. 184,000899

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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

DETAILS  
 SIGN PANELS

SCALE: N.T.S. SHEET 17 OF 18 SHEETS STA. TO STA.

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	61-(1,1-1,1-2,2)RS-1	MARION	484	200
CONTRACT NO. 76F79				
ILLINOIS FED. AID PROJECT NHP/NC9D(768)				