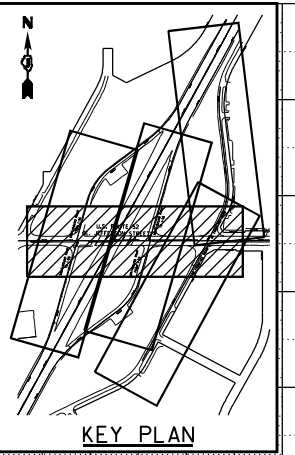
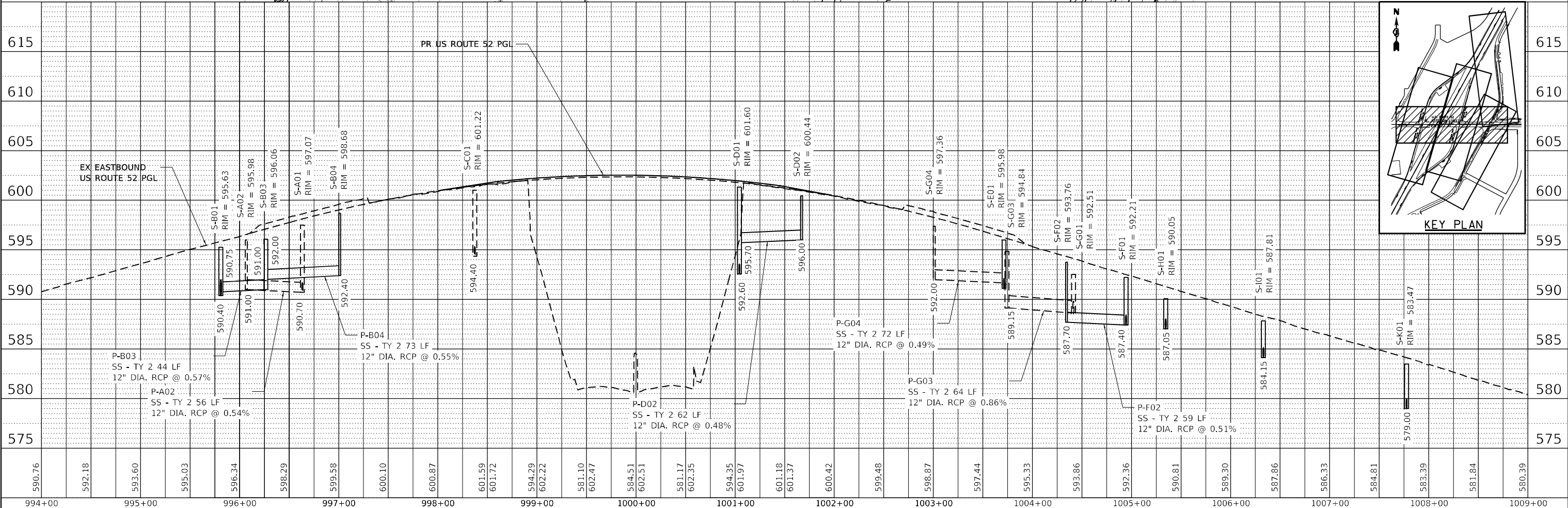
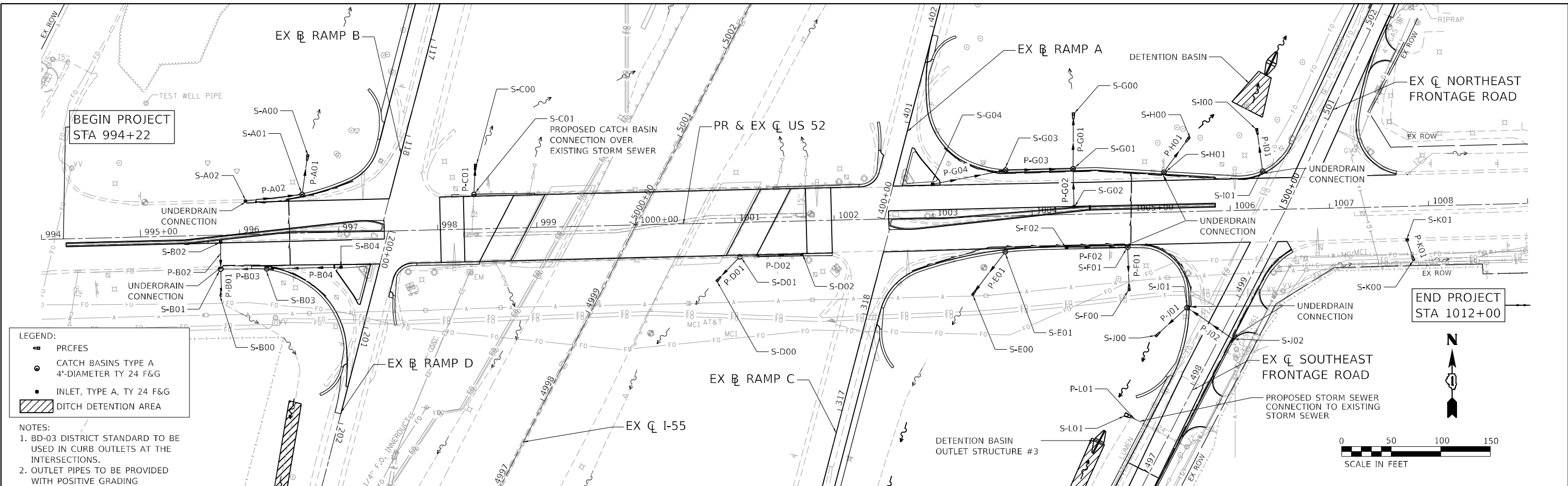


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BY	
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	PLOTTED
	ALIGNED
	CHECKED
	NOTED
	FILE NAME
	NO.

DATE	
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PROFILE	SURVEYED
	PLOTTED
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994+00	995+00	996+00	997+00	998+00	999+00	1000+00	1001+00	1002+00	1003+00	1004+00	1005+00	1006+00	1007+00	1008+00	1009+00																						
590.76	592.18	593.60	595.03	596.34	598.29	599.58	600.10	600.87	601.59	601.72	594.29	602.22	581.10	602.47	584.51	602.51	581.17	602.35	594.35	601.97	601.18	601.37	600.42	599.48	598.87	597.44	595.33	593.86	592.36	590.81	589.30	587.86	586.33	584.81	583.39	581.84	580.39

CiorbaGroup
 8725 W. Higgins Rd, Ste 600, Chicago, IL 60631
 P 773.775.4009 | www.ciorba.com

USER NAME = Roadway	DESIGNED - RD	REVISED -
	DRAWN - DDS	REVISED -
PLOT SCALE = 100,000' / in.	CHECKED - TW	REVISED -
PLOT DATE = 4/28/2022	DATE - 8/25/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

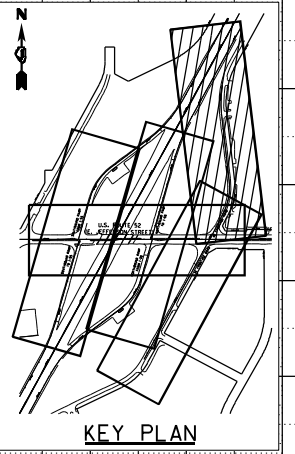
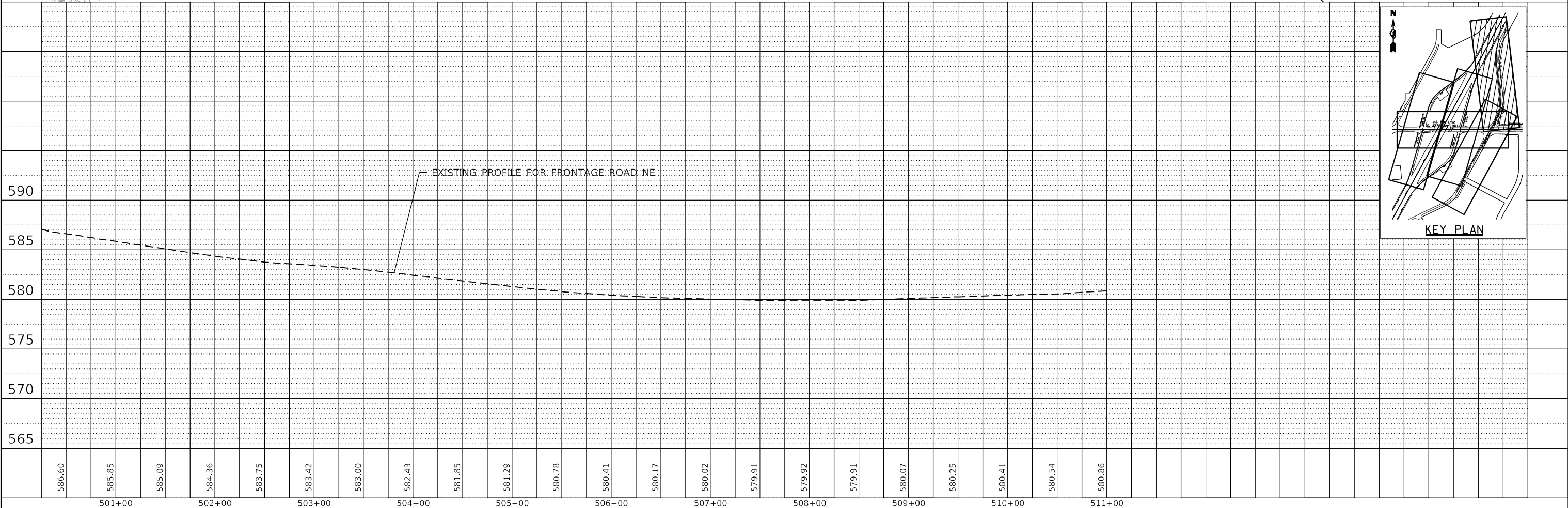
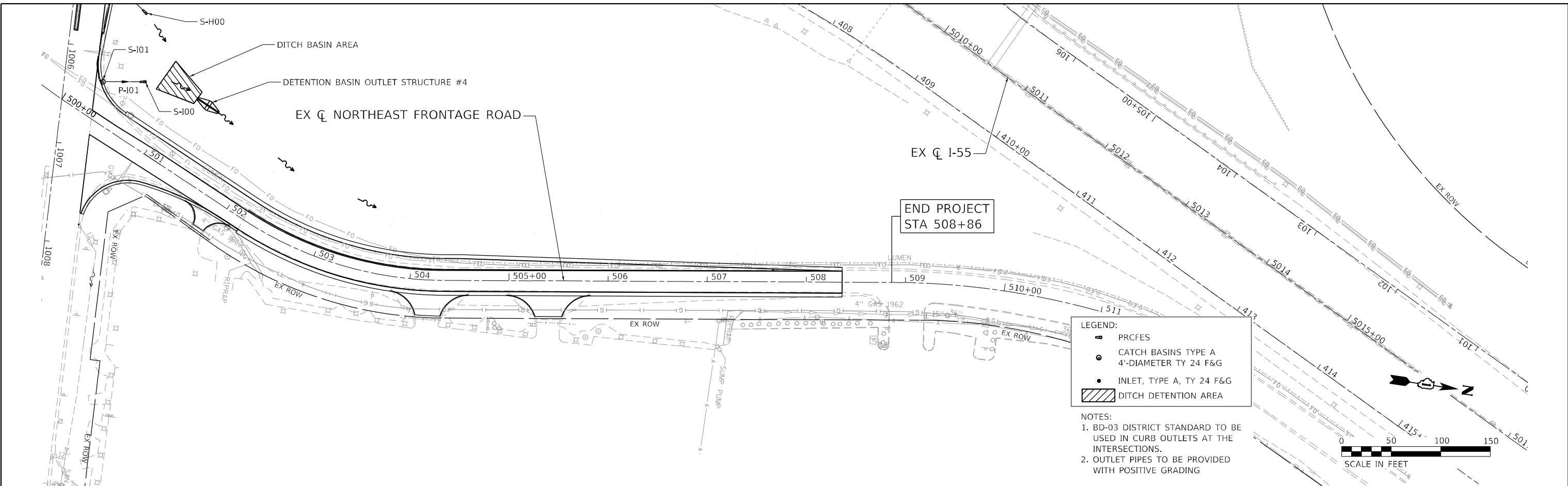
PROPOSED DRAINAGE PLAN AND PROFILE
US ROUTE 52
 SCALE: 1" = 50' SHEET 01 OF 05 SHEETS STA. 995+00.00 TO STA. 1008+00.00

F.A.P. RTE. 607	SECTION 2018-075-B-R	COUNTY WILL	TOTAL SHEETS 280	SHEET NO. 101
CONTRACT NO. 62H16				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
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	NOTE BOOK NO.	
	CADD FILE NAME	

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	PLOTTED	BY
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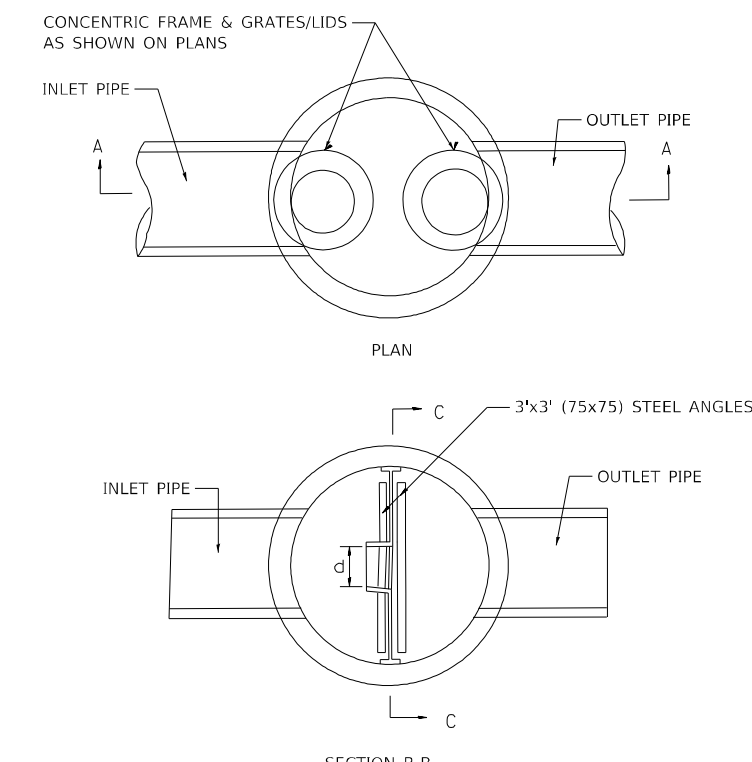
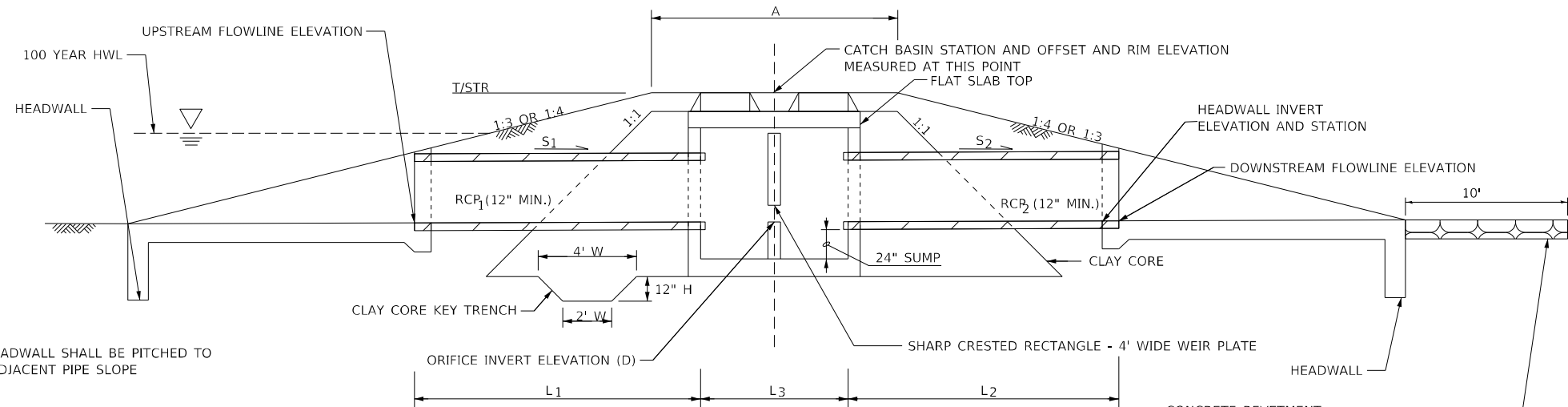
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PLOT DATE =	3/17/2022	DATE -	8/25/2021	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED DRAINAGE PLAN AND PROFILE
NORTHEAST FRONTAGE ROAD**

SCALE: 1" = 50' SHEET 05 OF 05 SHEETS STA. 500+00.00 TO STA. 509+00.00

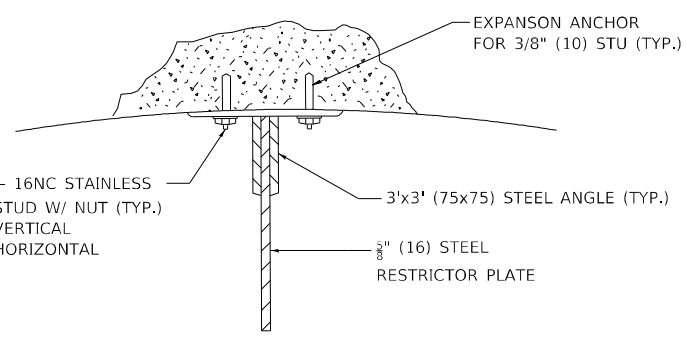
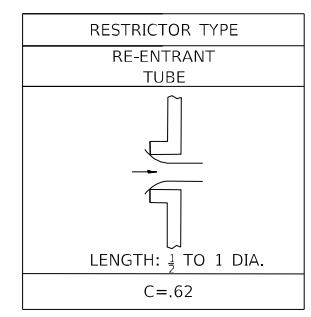
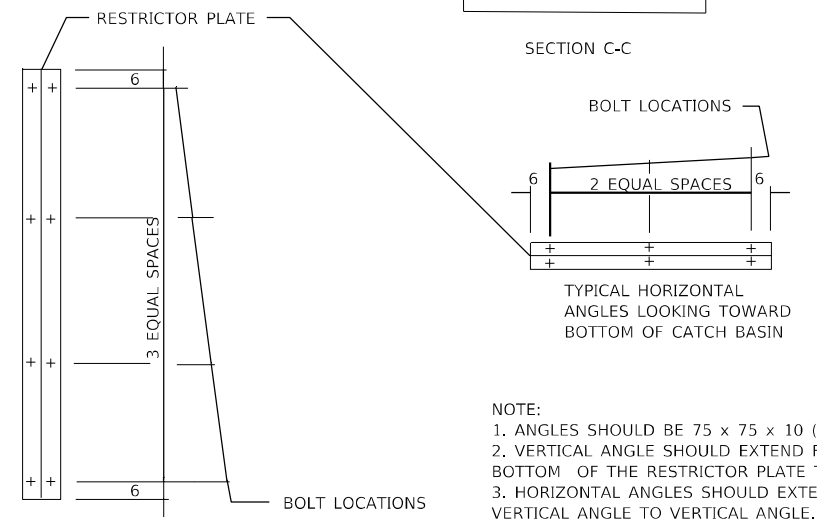
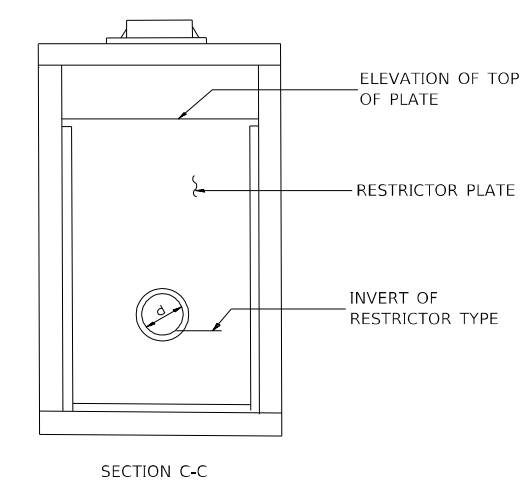
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
607	2018-075-B-R	WILL	280	105
				CONTRACT NO. 62H16
ILLINOIS FED. AID PROJECT				



DETENTION BASIN OUTLET DETAILS

* SEE TABLE BELOW AT VARIOUS LOCATIONS

DESIGN ELEMENTS		110+25.00, 29.3 RT	204+00.00, 32.2 RT	497+05.00, 59.6 LT	501+26.92, 76.3 LT
DRAINAGE AREA	X (ACRES)	#1 1.21	#2 1.53	#3 1.36	#4 0.60
PROVIDED STORAGE VOLUME	V (CU. FT.)	843	636	625	241
CHECK DAM TOP WIDTH	A (FEET)	10	10	10	10
CATCH BASIN	TYPE	A	A	A	A
CATCH BASIN-GRATE	TYPE	2 x 1	2 x 1	2 x 1	2 x 1
FRAME AND LID	TYPE	TY 1	TY 1	TY 1	TY 1
CATCH BASIN DIAMETER	L3 (DIAMETER, FT)	4	4	4	4
INLET PIPE (RCP 1)	P1 (DIAMETER)	12"	12"	12"	12"
INLET PIPE (RCP 1)	L1 (LENGTH, FT)	10	17	12	12
INLET PIPE (RCP 1)	S1 (SLOPE)	0.70%	1.9%	0.5%	0.50%
OUTLET PIPE (RCP 2)	P2 (DIAMETER)	12"	12"	12"	12"
OUTLET PIPE (RCP 2)	L2 (LENGTH, FT)	10	17	12	13
OUTLET PIPE (RCP 2)	S2 (SLOPE)	0.70%	1.9%	0.5%	0.50%
ORIFICE PLATE-DETAIL	DIA (INCH)	CIRCULAR 10"	CIRCULAR 10"	CIRCULAR 11"	CIRCULAR 6"
ORIFICE PLATE-RELEASE RATE (10-YEAR)	CFS	1.15	2.02	1.46	0.60
HEADWALL SLOPE (UPSTREAM)		1:4	1:4	1:4	1:4
HEADWALL SLOPE (DOWNSTREAM)		1:4	1:4	1:4	1:4
SLOPED HEADWALL TYPE III (UPSTREAM)	PIPE DIAMETER	12"	12"	12"	12"
SLOPED HEADWALL TYPE III (DOWNSTREAM)	PIPE DIAMETER	12"	12"	12"	12"
HIGH WATER ELEVATION (100-YR)	HWL (FEET)	577.14	583.33	578.59	581.46
TOP OF STRUCTURE ELEVATION	T/STR (FEET)	578.90	585.10	580.60	584.00
UPSTREAM FLOWLINE	U F/L (FEET)	575.57	580.32	576.76	580.06
DOWNSTREAM FLOWLINE	D F/L (FEET)	575.43	579.68	576.64	579.94
TOP WEIR ELEVATION	(FEET)	577.15	583.35	578.60	581.50
ORIFICE INVERT ELEVATION	(FEET)	575.50	580.00	576.70	580.00
STRUCTURE SUMP ELEVATION	(FEET)	573.50	578.00	574.70	578.00



- NOTES:
1. ALL STEEL ANGLES AND PLATES TO BE GALVANIZED AFTER FABRICATION.
 2. ALL RESTRICTOR PLATES, ANGLES AND HARDWARE TO BE INCLUDED IN THE COST OF THE MANHOLE, OF THE TYPE AND FRAME SPECIFIED.

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DRAWN - DDS	REVISOR -	
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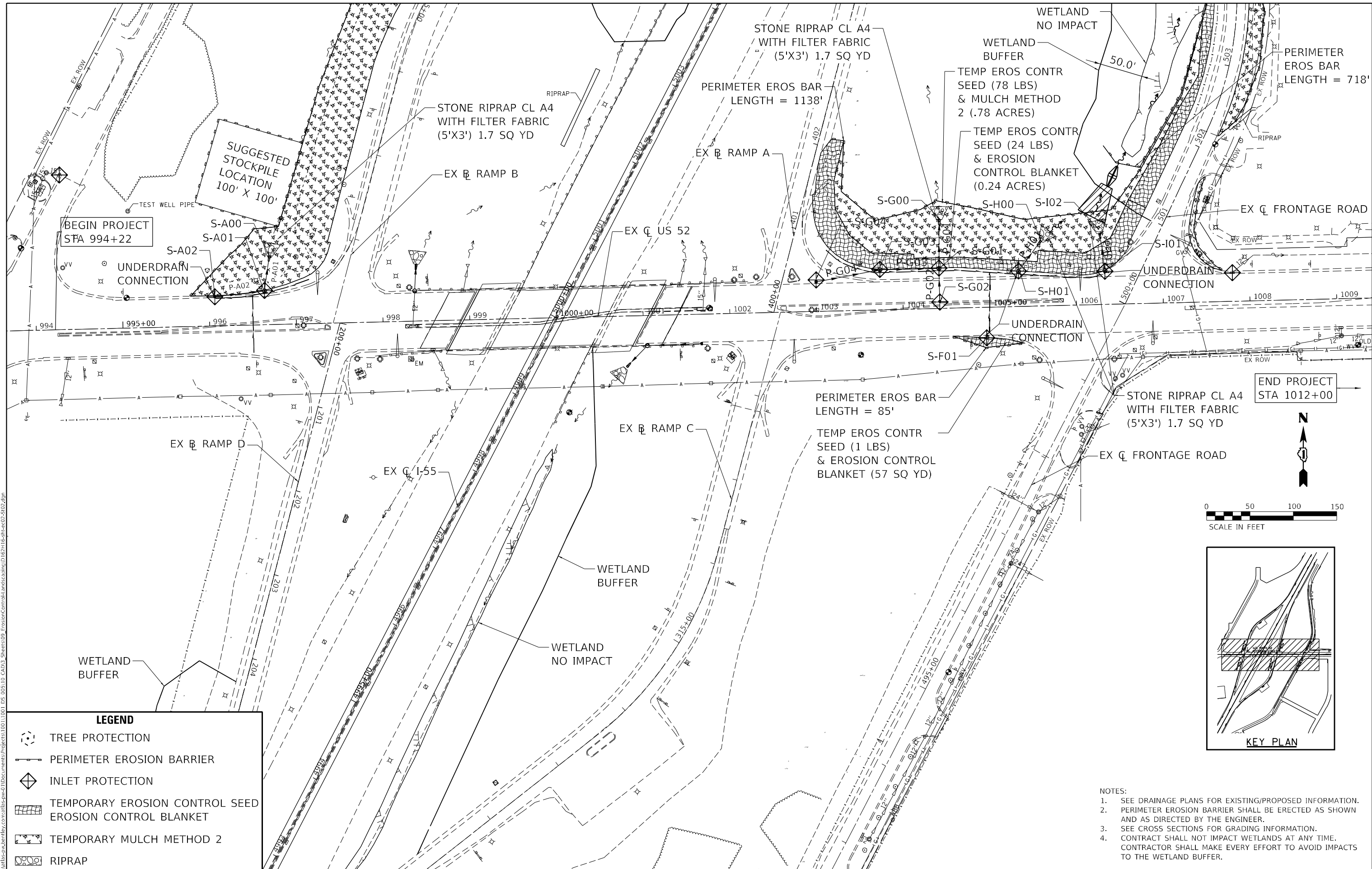
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE DETAILS
US ROUTE 52 DETENTION BASIN OUTLET STRUCTURE

SCALE: N.T.S. SHEET 01 OF 02 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
607	2018-075-B-R	WILL	280	106
CONTRACT NO. 62H16			ILLINOIS FED. AID PROJECT	

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LEGEND	
	TREE PROTECTION
	PERIMETER EROSION BARRIER
	INLET PROTECTION
	TEMPORARY EROSION CONTROL SEED
	EROSION CONTROL BLANKET
	TEMPORARY MULCH METHOD 2
	RIPRAP

- NOTES:
- SEE DRAINAGE PLANS FOR EXISTING/PROPOSED INFORMATION. PERIMETER EROSION BARRIER SHALL BE ERECTED AS SHOWN AND AS DIRECTED BY THE ENGINEER.
 - SEE CROSS SECTIONS FOR GRADING INFORMATION.
 - CONTRACTOR SHALL MAKE EVERY EFFORT TO AVOID IMPACTS TO THE WETLAND BUFFER.

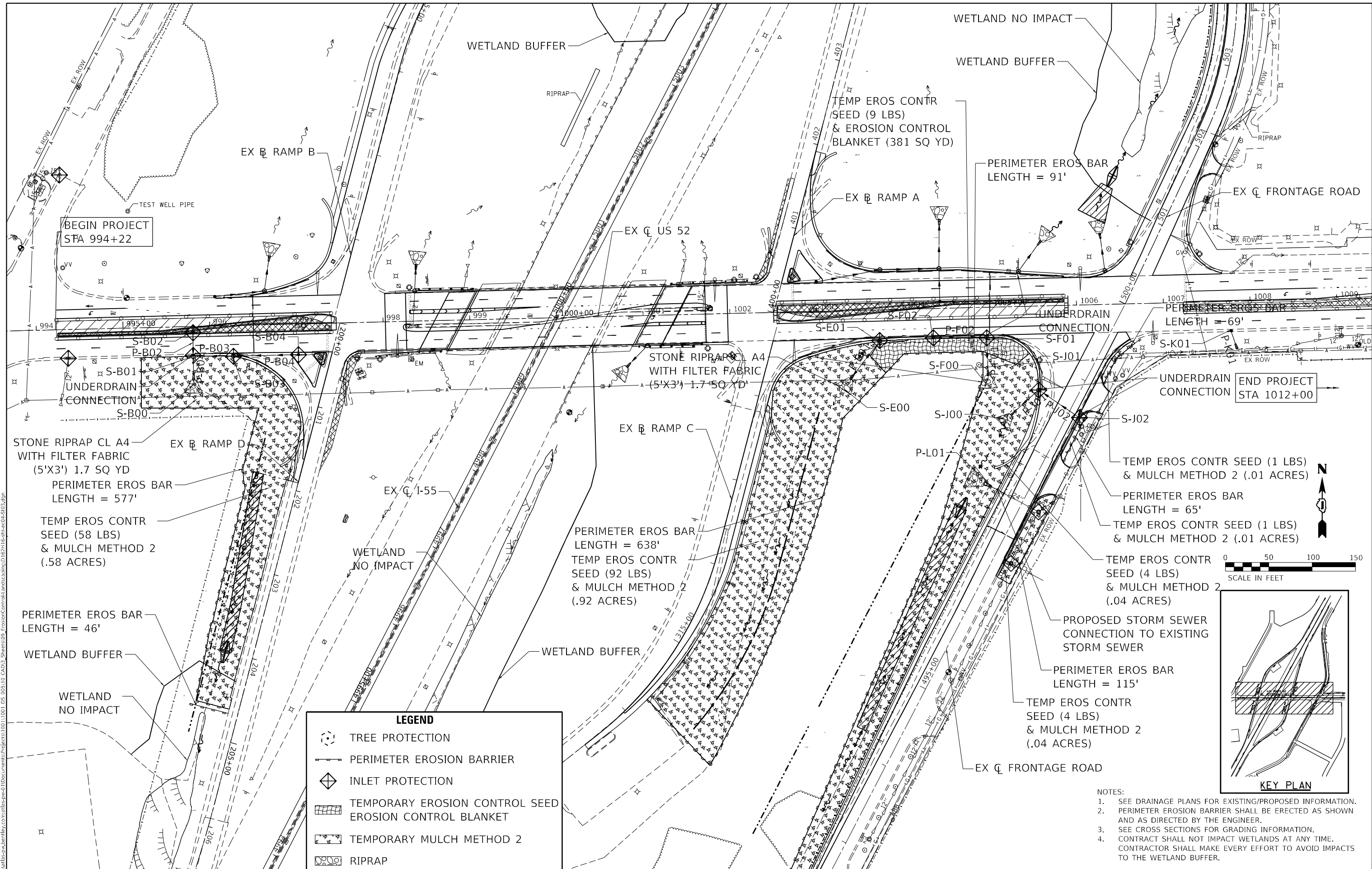
AEG ATLAS ENGINEERING GROUP, LTD.

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	DRAWN - KEK	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - BA	REVISED -
PLOT DATE = 3/19/2022	DATE -	REVISED -

**EROSION CONTROL PLAN
US ROUTE 52 - STAGE 2**

SCALE: 1" = 50' SHEET 3 OF 7 SHEETS STA. TO STA.

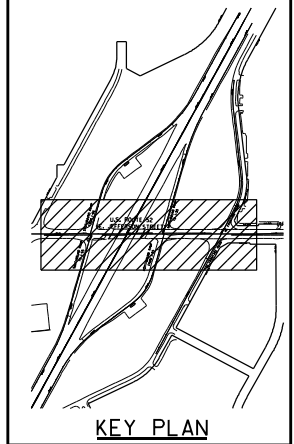
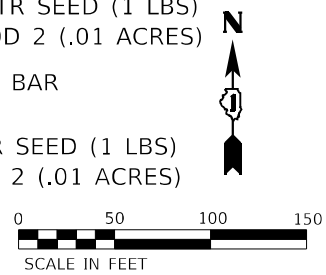
F.A.P. RTE. 607	SECTION 2018-075-B-R	COUNTY WILL	TOTAL SHEETS 280	SHEET NO. 110
CONTRACT NO. 62H16				ILLINOIS FED. AID PROJECT



BEGIN PROJECT
STA 994+22

END PROJECT
STA 1012+00

LEGEND	
	TREE PROTECTION
	PERIMETER EROSION BARRIER
	INLET PROTECTION
	TEMPORARY EROSION CONTROL SEED
	EROSION CONTROL BLANKET
	TEMPORARY MULCH METHOD 2
	RIPRAP



- NOTES:
- SEE DRAINAGE PLANS FOR EXISTING/PROPOSED INFORMATION. PERIMETER EROSION BARRIER SHALL BE ERCTED AS SHOWN AND AS DIRECTED BY THE ENGINEER.
 - SEE CROSS SECTIONS FOR GRADING INFORMATION. CONTRACTOR SHALL NOT IMPACT WETLANDS AT ANY TIME. CONTRACTOR SHALL MAKE EVERY EFFORT TO AVOID IMPACTS TO THE WETLAND BUFFER.

580
ATLAS ENGINEERING
GROUP, LTD.

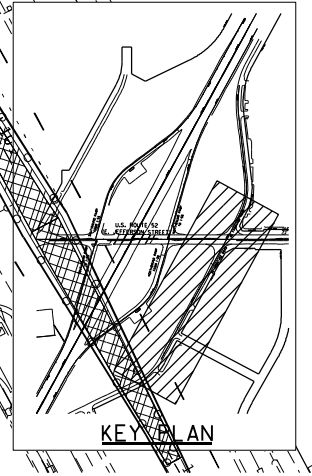
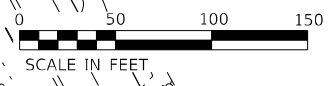
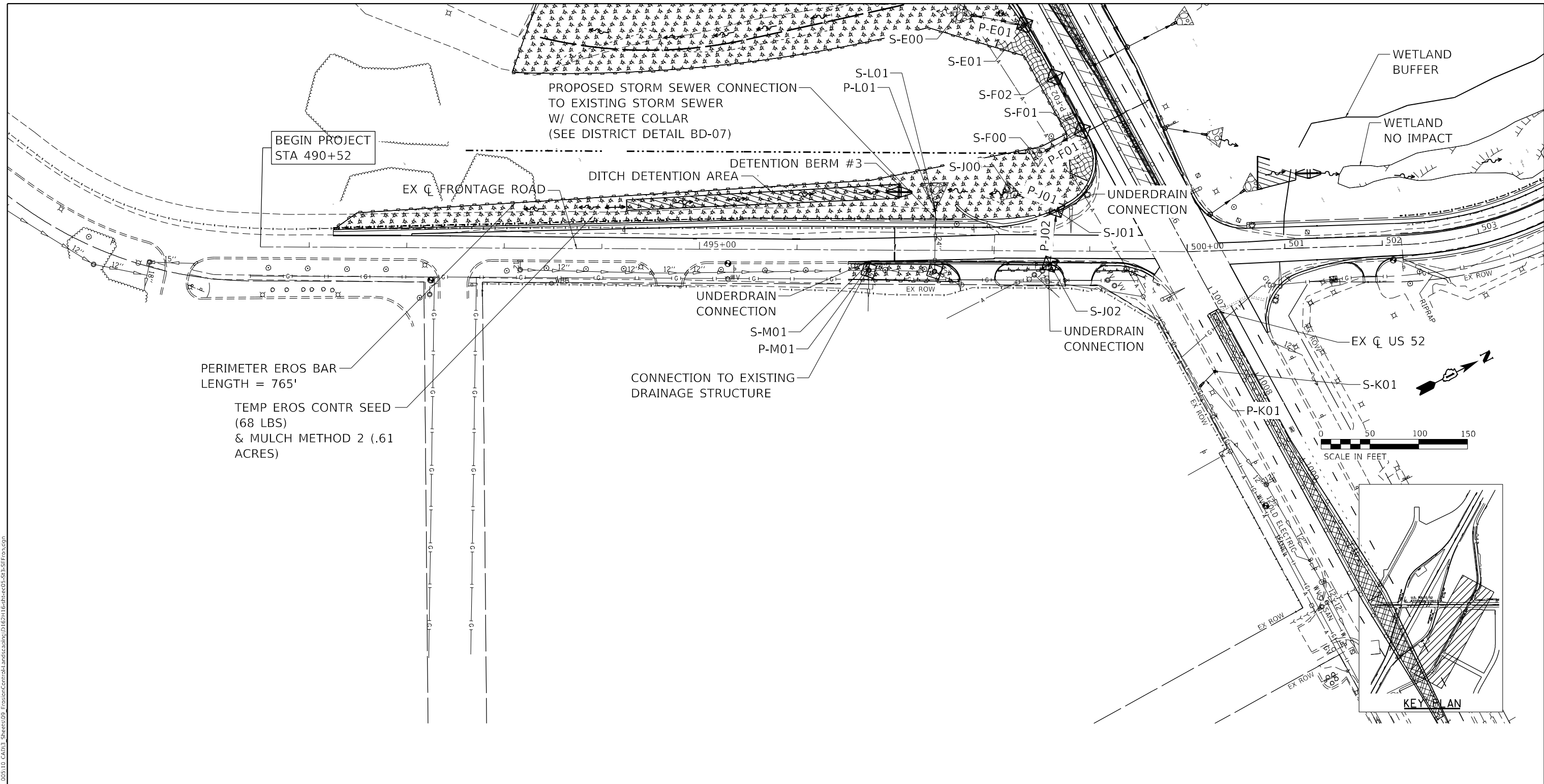
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**EROSION CONTROL PLAN
US ROUTE 52 - STAGE 3**

SCALE: 1" = 50' SHEET 6 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
607	2018-075-B-R	WILL	280	113
CONTRACT NO. 62H16				
ILLINOIS FED. AID PROJECT				

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LEGEND	
	TREE PROTECTION
	PERIMETER EROSION BARRIER
	INLET PROTECTION
	TEMPORARY EROSION CONTROL SEED
	EROSION CONTROL BLANKET
	TEMPORARY MULCH METHOD 2
	RIPRAP

- NOTES:
1. SEE DRAINAGE PLANS FOR EXISTING/PROPOSED INFORMATION.
 2. PERIMETER EROSION BARRIER SHALL BE ERECTED AS SHOWN AND AS DIRECTED BY THE ENGINEER.
 3. SEE CROSS SECTIONS FOR GRADING INFORMATION.
 4. CONTRACTOR SHALL NOT IMPACT WETLANDS AT ANY TIME. CONTRACTOR SHALL MAKE EVERY EFFORT TO AVOID IMPACTS TO THE WETLAND BUFFER.

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	PLOT DATE = 4/28/2022	DATE -	REVISED -		ILLINOIS FED. AID PROJECT				

IDOT UTILITY PERMIT INSPECTION



PERMIT #: RT 52 AND I-55
 INSPECTION DATE: 7/23/2021
 INSPECTED BY: ADAM ARMSTRONG

PERMIT INFORMATION

GENERAL LOCATION: RT 52 AND I-55 (IDOT CONTRACT# 62H16)		
CITY: SHOREWOOD/JOLIET	COUNTY: WILL	COORDINATOR: ED KANTHACK/LONG TRAN

NOTES / COMMENTS

The photos below will show Test Hole #2 which is located on SE Frontage Rd. The test hole was performed on the Lumen fiber, that is running on the west side of SE Frontage Rd going North and South, a couple of hundred feet South from Test Hole #1. As we uncover the fiber line, we had found two 2 inch pvc pipes at a depth of 3.16 feet. Work area was properly restored. All work is completed and depicted on plan sheet. Please note that the request for Horizontal and Vertical Locating (Test Hole) services without survey of the x,y,z coordinates and the required review/stamp seal of approval from professional engineer per the ASCE 38-02 standards will not be considered as SUE Quality Level A and B.



SHEET: 3 OF 12



PERMIT #: RT 52 AND I-55
 INSPECTION DATE: 7/23/2021
 INSPECTED BY: ADAM ARMSTRONG

PERMIT INFORMATION

GENERAL LOCATION: RT 52 AND I-55 (IDOT CONTRACT# 62H16)		
CITY: SHOREWOOD/JOLIET	COUNTY: WILL	COORDINATOR: ED KANTHACK/LONG TRAN

NOTES / COMMENTS

The photos below will show Test Hole #3 which is located on SE Frontage Rd. The test hole was performed on the Lumen fiber, that is running on the west side of SE Frontage Rd going North and South. We found two 2 inch pvc pipes running north and south just like in Test Hole #2. We had found the Lumen fiber at a depth of 3.31 feet. Work area was properly restored. All work is completed and depicted on plan sheet. Please note that the request for Horizontal and Vertical Locating (Test Hole) services without survey of the x,y,z coordinates and the required review/stamp seal of approval from professional engineer per the ASCE 38-02 standards will not be considered as SUE Quality Level A and B.



SHEET: 4 OF 12

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	DATE - 3/18/2022	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUE INVESTIGATION OF
 UNDERGROUND UTILITIES

SCALE: N.T.S. SHEET 2 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
607	2018-075-B-R	WILL	280	116
CONTRACT NO. 62H16				
ILLINOIS FED. AID PROJECT				

IDOT UTILITY PERMIT INSPECTION



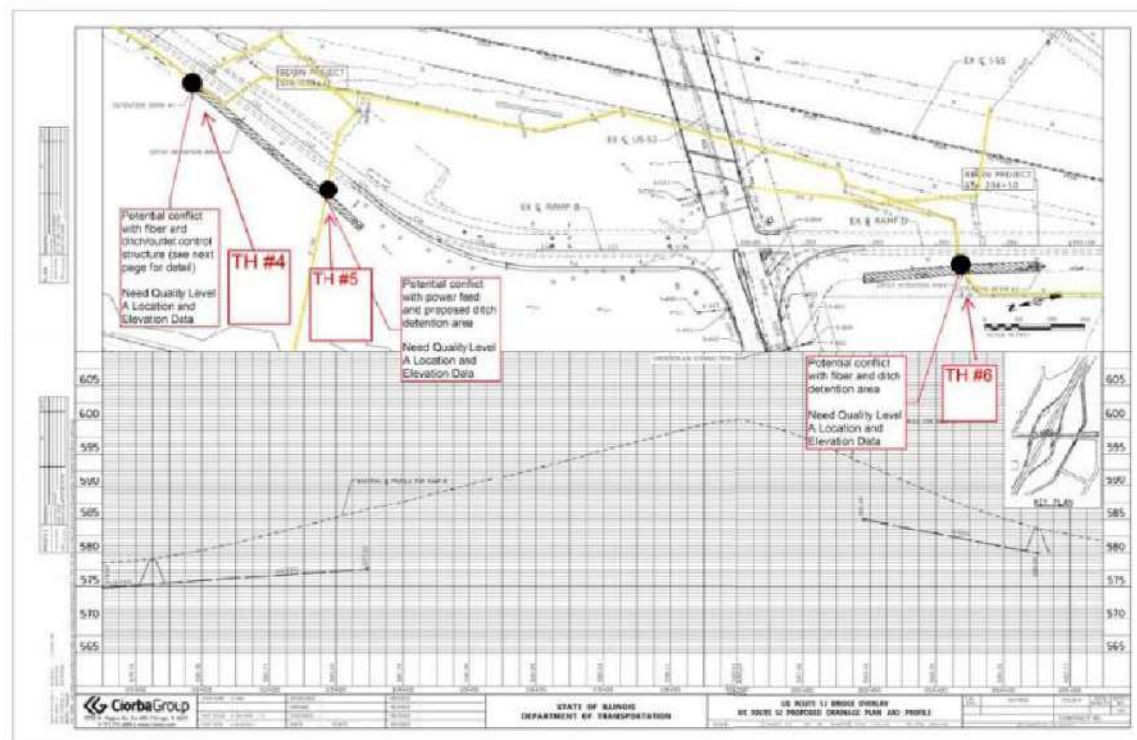
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 INSPECTION DATE: 7/23/2021
 INSPECTED BY: ADAM ARMSTRONG

PERMIT INFORMATION

GENERAL LOCATION:	RT 52 AND I-55 (IDOT CONTRACT# 62H16)	
CITY: SHREWOOD/JOLIET	COUNTY: WILL	COORDINATOR: ED KANTHACK/LONG TRAN

NOTES / COMMENTS

The plan sheet below shows where Test Hole #4, 5 and 6 are located on the off ramp and on ramp on the West side of I-55



SHEET: 5 OF 12

IDOT UTILITY PERMIT INSPECTION



PERMIT #: RT 52 AND I-55
 INSPECTION DATE: 7/23/2021
 INSPECTED BY: ADAM ARMSTRONG

PERMIT INFORMATION

GENERAL LOCATION:	RT 52 AND I-55 (IDOT CONTRACT# 62H16)	
CITY: SHREWOOD/JOLIET	COUNTY: WILL	COORDINATOR: ED KANTHACK/LONG TRAN

NOTES / COMMENTS

The photos below will show Test Hole #4, which is located off the shoulder of the off ramp on the east side of I-55. The test hole was performed on the IDOT fiber that is running Northwest and Southeast, crossing the off ramp going to a handhole on the east side of the ramp. As we started uncovering the IDOT fiber, we had found two 1.5 inch pvc pipe on top of one another at a depth of 1.56 feet. The Work area was properly restored. All work is completed and depicted on plan sheet. Please note that the request for Horizontal and Vertical Locating (Test Hole) services without survey of the xyz coordinates and the required review/stamp seal of approval from professional engineer per the ASCE 38-02 standards will not be considered as SUE Quality Level A and B.



SHEET: 6 OF 12

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PLOT DATE = 3/19/2022	DATE - 3/18/2022	REVISIONS -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUE INVESTIGATION OF
 UNDERGROUND UTILITIES

SCALE: N.T.S. SHEET 3 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
607	2018-075-B-R	WILL	280	117
CONTRACT NO. 62H16				
ILLINOIS FED. AID PROJECT				

IDOT UTILITY PERMIT INSPECTION



PERMIT #: RT 52 AND I-55
 INSPECTION DATE: 7/23/2021
 INSPECTED BY: ADAM ARMSTRONG

PERMIT INFORMATION

GENERAL LOCATION:	RT 52 AND I-55 (IDOT CONTRACT# 62H16)	
CITY: SHOREWOOD/JOLIET	COUNTY: WILL	COORDINATOR: ED KANTHACK/LONG TRAN

NOTES / COMMENTS

The photos below will show Test Hole #5 which is located off the shoulder of the off ramp on the East side of I-55. The Test Hole was performed on the electric line that is running East and West crossing the off ramp going to an electric structure on the East side of the ramp. As we started uncovering the electric line, we found at a depth of 1.90 feet. The Work area was properly restored. All work is completed and depicted on plan sheet. Please note that the request for Horizontal and Vertical Locating (Test Hole) services without survey of the xyz coordinates and the required review/stamp seal of approval from professional engineer per the ASCE 38-02 standards will not be considered as SUE Quality Level A and B.



SHEET: 7 OF 12

IDOT UTILITY PERMIT INSPECTION



PERMIT #: RT 52 AND I-55
 INSPECTION DATE: 7/23/2021
 INSPECTED BY: ADAM ARMSTRONG

PERMIT INFORMATION

GENERAL LOCATION:	RT 52 AND I-55 (IDOT CONTRACT# 62H16)	
CITY: SHOREWOOD/JOLIET	COUNTY: WILL	COORDINATOR: ED KANTHACK/LONG TRAN

NOTES / COMMENTS

The photos below will show Test Hole #6 which is located off the shoulder of the on ramp on the West side of I-55. The Test Hole was performed on the IDOT fiber that is running East and West crossing the on ramp going to a handhole on the east side of the ramp. We uncovered the IDOT fiber, where we had found two 2 inch pvc pipes on top of each other at a depth of 1.89 feet. The Work area was properly restored. All work is completed and depicted on plan sheet. Please note that the request for Horizontal and Vertical Locating (Test Hole) services without survey of the xyz coordinates and the required review/stamp seal of approval from professional engineer per the ASCE 38-02 standards will not be considered as SUE Quality Level A and B.



SHEET: 8 OF 12

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	DATE - 3/18/2022	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUE INVESTIGATION OF
 UNDERGROUND UTILITIES

SCALE: N.T.S SHEET 4 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
607	2018-075-B-R	WILL	280	118
CONTRACT NO. 62H16				
ILLINOIS FED. AID PROJECT				

IDOT UTILITY PERMIT INSPECTION



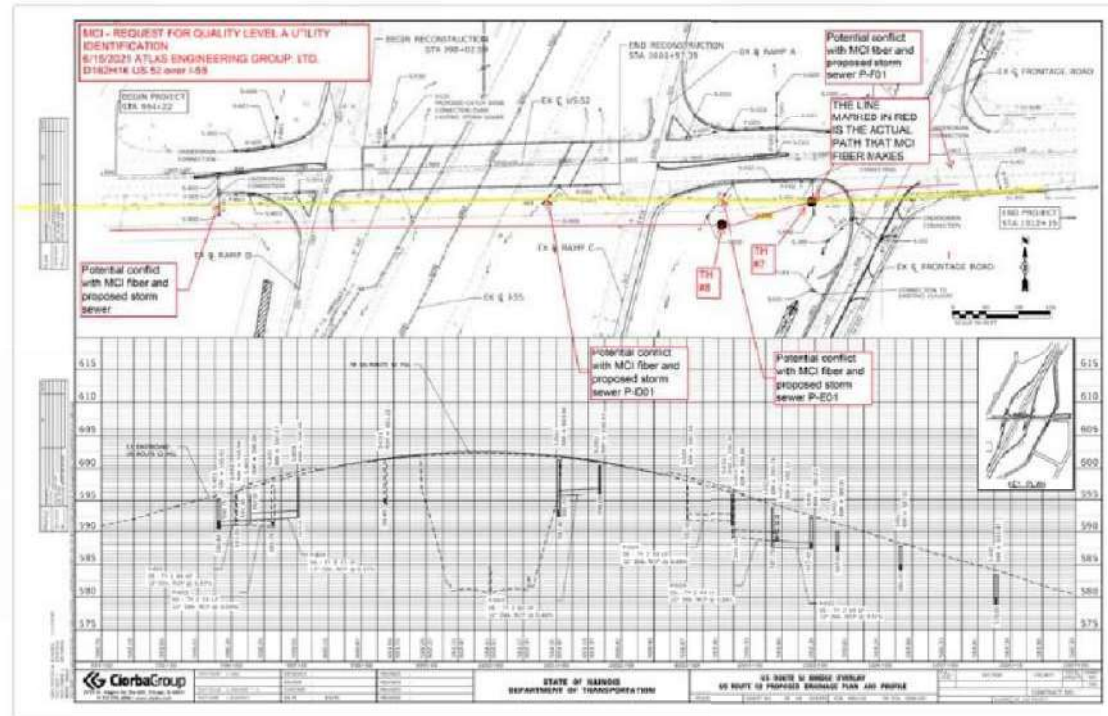
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 INSPECTION DATE: 7/23/2021
 INSPECTED BY: ADAM ARMSTRONG

PERMIT INFORMATION

GENERAL LOCATION: RT 52 AND I-55 (IDOT CONTRACT# 62H16)		
CITY: SHOREWOOD/JOLIET	COUNTY: WILL	COORDINATOR: ED KANTHACK/LONG TRAN

NOTES / COMMENTS

The plan sheet below shows where Test Hole #7 and #8 are located on the South side of I-55



SHEET: 9 OF 12

IDOT UTILITY PERMIT INSPECTION



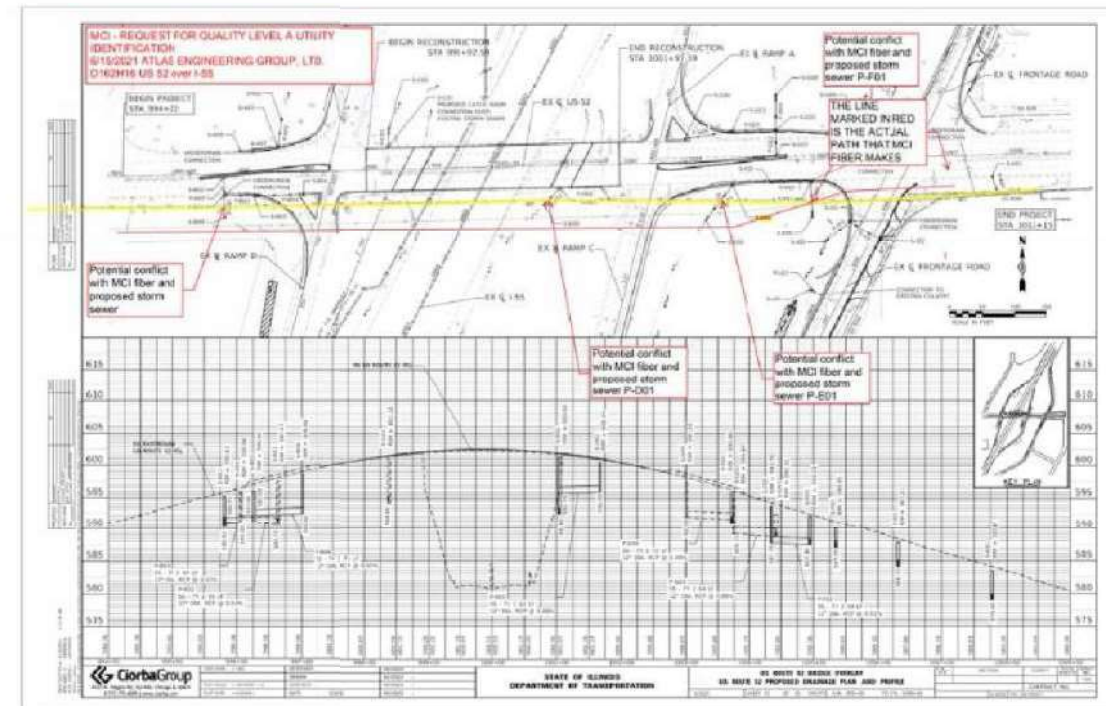
PERMIT #: RT 52 AND I-55
 INSPECTION DATE: 7/23/2021
 INSPECTED BY: ADAM ARMSTRONG

PERMIT INFORMATION

GENERAL LOCATION: RT 52 AND I-55 (IDOT CONTRACT# 62H16)		
CITY: SHOREWOOD/JOLIET	COUNTY: WILL	COORDINATOR: ED KANTHACK/LONG TRAN

NOTES / COMMENTS

The plan sheet below will show the actual route of the MCI fiber which is marked out in a red line going East and West. The line highlighted in yellow is information provided by others. T2 performed horizontal locates to verify the correct location of the MCI fiber. Long Tran eliminated two test holes labeled P-B03 and P-D01 due to not being in conflict. All work is completed and depicted on plan sheet. Please note that the request for Horizontal and Vertical Locating/Test Hole services without survey of the x,y,z coordinates and the required review/stamp seal of approval from professional engineer per the ASCE 38-02 standards will not be considered as SUE Quality Level A and B.



SHEET: 10 OF 12

MODEL: Default
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USER NAME = kxoehneke	DESIGNED - KK	REVISED -
PLOT SCALE = 80,0000 +/- in.	DRAWN - KK	REVISED -
PLOT DATE = 3/19/2022	CHECKED - BA	REVISED -
	DATE - 3/18/2022	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUE INVESTIGATION OF
 UNDERGROUND UTILITIES

SCALE: N.T.S SHEET 5 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
607	2018-075-B-R	WILL	280	119
CONTRACT NO. 62H16				
ILLINOIS		FED. AID PROJECT		

IDOT UTILITY PERMIT INSPECTION



PERMIT #: RT 52 AND I-55
 INSPECTION DATE: 7/23/2021
 INSPECTED BY: ADAM ARMSTRONG

PERMIT INFORMATION

GENERAL LOCATION:	RT 52 AND I-55 (IDOT CONTRACT# 62H16)	
CITY: SHOREWOOD/JOLIET	COUNTY: WILL	COORDINATOR: ED KANTHACK/LONG TRAN

NOTES / COMMENTS

The photos below will show Test Hole #7 which is located at the Southwest corner of SE Frontage Rd and IL RT-52 in the grass area. The test hole was performed on the MCI fiber that is running on the south side of IL RT-52 going East and West. As we started air excavating the test hole we uncovered the MCI fiber which is a PVC pipe at a depth of 4.42 feet. Due to the rocky ground condition, T2 was unable to get the exact measurement of the fiber optic within test hole. Work area was properly restored. All work is completed and depicted on plan sheet. Please note that the request for Horizontal and Vertical Locating (Test Hole) services without survey of the xyz coordinates and the required review/stamp seal of approval from professional engineer per the ASCE 38-02 standards will not be considered as SUE Quality Level A and B.



SHEET: 11 OF 12

IDOT UTILITY PERMIT INSPECTION



PERMIT #: RT 52 AND I-55
 INSPECTION DATE: 7/23/2021
 INSPECTED BY: ADAM ARMSTRONG

PERMIT INFORMATION

GENERAL LOCATION:	RT 52 AND I-55 (IDOT CONTRACT# 62H16)	
CITY: SHOREWOOD/JOLIET	COUNTY: WILL	COORDINATOR: ED KANTHACK/LONG TRAN

NOTES / COMMENTS

The photos below will show Test Hole #8 which is located at the southwest corner of SE Frontage Rd and IL RT-52 in the grass area, which is 200 ft west of Test Hole #7. The test hole was performed on the MCI fiber that is running on the South side of IL RT-52 going East and West. As we started air excavating within Test Hole #8 the soil conditions were rocky and filled with large boulders which made it difficult to uncover the MCI fiber. Due to these soil conditions, T2 could only air excavate to a depth of 7.50 feet. Did not exposed fiber optic in this location. Work area was properly restored. All work is completed and depicted on plan sheet. Please note that the request for Horizontal and Vertical Locating (Test Hole) services without survey of the xyz coordinates and the required review/stamp seal of approval from professional engineer per the ASCE 38-02 standards will not be considered as SUE Quality Level A and B.



SHEET: 12 OF 12

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USER NAME = kxoehneke	DESIGNED - KK	REVISED -
PLOT SCALE = 80,0000 */ in.	DRAWN - KK	REVISED -
PLOT DATE = 3/19/2022	CHECKED - BA	REVISED -
	DATE - 3/18/2022	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUE INVESTIGATION OF
 UNDERGROUND UTILITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
607	2018-075-B-R	WILL	280	120
CONTRACT NO. 62H16				
ILLINOIS FED. AID PROJECT				

GENERAL PAVEMENT MARKING AND SIGNING NOTES

- PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH IDOT DISTRICT 1 DETAILS TC-11, TC-12, AND TC-13.
- FINAL SIGN LOCATIONS MAY VARY DUE TO FIELD CONDITIONS. EXACT LOCATIONS ARE AT THE DISCRETION OF THE ENGINEER TO ENSURE SIGNS ARE NOT PLACED IN THE LINE OF SIGHT OF OTHER SIGNS.
- ALL POST MOUNTED SIGNS SHALL BE MOUNTED ON TELESCOPING POLES IN ACCORDANCE WITH HIGHWAY STANDARD 728001 UNLESS OTHERWISE NOTED.
- ALL PERMANENT MARKINGS SHALL BE OF THE SPECIFIED TYPE IN THE PAVEMENT MARKING LEGEND.
- DELINEATORS SHALL BE INSTALLED PER HIGHWAY STANDARD 635001.

GENERAL SIGNING LEGEND

- | | |
|---------|--------------------------|
| US 52 | US ROUTE 52 |
| NB | NORTH BOUND |
| SB | SOUTH BOUND |
| WB | WEST BOUND |
| EB | EAST BOUND |
| C | CENTERLINE |
| E | BASELINE |
| REL | RELOCATE |
| R | REMOVAL |
| EX | EXISTING |
| PR | PROPOSED |
| W/G | WHITE/GREEN |
| B/Y | BLACK/YELLOW |
| B/W | BLACK/WHITE |
| W/BL | WHITE/BLUE |
| W/R | WHITE/RED |
| R/W | RED/WHITE |
| B/B/L | BLACK/BLACK/WHITE |
| R/G/O | RED/GREEN/ORANGE |
| B/O | BLACK/ORANGE |
| B/W/G/P | BLACK/WHITE/GREEN/PURPLE |
| B/W/G | BLACK/WHITE/GREEN |
| G/W | GREEN/WHITE |

SIGNING REMOVAL SCHEDULE									REMOV SIGN PANEL ASSY TA	REMOV SIGN PANEL T1	REMOV GR MT SIGN SUPPORT	REMARKS
ASSEMBLY ID	LEGEND/DESCRIPTION	COLOR	ALIGNMENT	STATION	OFFSET	W (IN)	H (IN)	AREA (SQ FT)	EACH	SQ FT	EACH	
26	LEFT TURN / RIGHT TURN ONLY	BLACK/WHITE	I-55 SB EXIT RAMP	116+51	40 RT	36	30	7.5	1	7.5	1	1 PANEL , 1 STEEL SQUARE POST
27	LEFT TURN / RIGHT TURN ONLY	BLACK/WHITE	I-55 SB EXIT RAMP	115+92	40 LT	36	30	7.5	1	7.5	0	1 PANEL , 1 WOOD POST
TOTAL									2	15	1	

PROPOSED SIGNING SCHEDULE									SIGN PANEL T1	SIGN PANEL T2	WOOD SIGN SUPPORT		
ASSEMBLY ID	LEGEND/DESCRIPTION	COLOR	ALIGNMENT	STATION	OFFSET	W (IN)	H (IN)	AREA (SQ FT)	SQ FT	SQ FT	P1	P2	PAY LENGTH (LF)
3	YIELD	RED/WHITE	US 52	1003+11	93 LT	36	36	9	9		5	8	13
11	YIELD	RED/WHITE	US 52	996+85	94 RT	36	36	9	9		5	8	13
18	LEFT TURN / RIGHT TURN ONLY - 4 LANES	BLACK/WHITE	I-55 SB EXIT RAMP	116+51	40 RT	66	30	13.75		13.75	5	7.5	12.5
23	LEFT TURN / RIGHT TURN ONLY - 4 LANES	BLACK/WHITE	I-55 SB EXIT RAMP	115+92	40 LT	66	30	13.75		13.75			
31	LEFT TURN / RIGHT TURN ONLY - 3 LANES	BLACK/WHITE	I-55 NB EXIT RAMP	317+30	25 RT	48	30	10		10	5	7.5	12.5
39	LEFT TURN / RIGHT TURN ONLY - 3 LANES	BLACK/WHITE	I-55 NB EXIT RAMP	317+25	34 LT	48	30	10		10	5	7.5	12.5
TOTAL									18	47.5			63.5

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 SHEETS: 08
 SIGNING: 08
 PROJECT: 10011001 DS 00510 CAD03

EXISTING SIGNS TO REMAIN AND SIGNING RELOCATION SCHEDULE										RELOC SIGN PANEL ASSY TA	RELOC SIGN PANEL ASSY TB	RELOC SIGN PANEL T1	RELOC SIGN PANEL T2	RELOC SIGN PANEL T3	REM RELOC GR MT SIGN SUPPORT	INSTALL EXISTING SIGN PANEL	CONC FOUND	REINF BARS EPOXY COATED	STR STEEL SIGN SUPP BA	REMARKS	
ASSEMBLY ID	LEGEND/DESCRIPTION	COLOR	ALIGNMENT	STATION	OFFSET	W (IN)	H (IN)	AREA (SQ FT)	REMAIN OR RELOCATE	EACH	EACH	SQ FT	SQ FT	SQ FT	EACH	SQ FT	CU YD	POUND	POUND		
1A	M3-1 NORTH	BLUE / WHITE	US 52	1003+53	58 LT	24	12	2	RELOCATE	1		2				2					MOUNTED ON SAME LIGHT POLE AS 1B, 1C. RELOCATE TO NORTHBOUND RAMP ENTRANCE POST
1B	M1-1 INTERSTATE 55	BLUE / WHITE	US 52	1003+53	58 LT	24	24	4	RELOCATE			4				4					MOUNTED ON SAME LIGHT POLE AS 1A, 1C. RELOCATE TO NORTHBOUND RAMP ENTRANCE POST
1C	M6-1 RIGHT ARROW	BLUE / WHITE	US 52	1003+53	58 LT	21	15	2.2	RELOCATE			2.2				2.2					MOUNTED ON SAME LIGHT POLE AS 1A, 1B. RELOCATE TO NORTHBOUND RAMP ENTRANCE POST
2A	M3-3 SOUTH	BLUE / WHITE	US 52	996+45	54 RT	24	12	2	RELOCATE	1		2			1						MOUNTED ON SAME SQUARE STEEL POST AS 2B, 2C
2B	M1-1 INTERSTATE 55	BLUE / WHITE	US 52	996+45	54 RT	24	24	4	RELOCATE			4									MOUNTED ON SAME SQUARE STEEL POST AS 2A, 2C
2C	M6-1 RIGHT ARROW	BLUE / WHITE	US 52	996+45	54 RT	21	15	2.2	RELOCATE			2.2									MOUNTED ON SAME SQUARE STEEL POST AS 2A, 2B
4	R5-1100 USE PROHIBITED BY - BUCKLE UP	BLACK / WHITE	US 52	1003+06	114 LT	48	60	20	RELOCATE		1		20								1 PANEL ON WOOD POST
5	R5-1A WRONG WAY	RED / WHITE	US 52	997+47	150 LT	30	18	3.8	RELOCATE	1		3.8			1						1 PANEL ON SQUARE STEEL POST
6	ENTRANCE 253D I-55 SOUTH, BLOOMINGTON - NORMAL ENTRANCE ARROW	GREEN / WHITE	US 52	998+52	47 LT	156	132	143	REMAIN												1 PANEL ON TWO BREAKAWAY STEEL POSTS
7	ENTRANCE 253A I-55 NORTH, CHICAGO ENTRANCE ARROW	GREEN / WHITE	US 52	1001+43	46 RT	126	120	105	REMAIN												1 PANEL ON TWO BREAKAWAY STEEL POSTS
8	I-55 NORTH CHICAGO / I-55 SOUTH BLOOMINGTON - NORMAL DIRECTIONAL ARROWS	GREEN / WHITE	US 52	994+55	51 RT	96	54	36	REMAIN												1 PANEL ON TWO BREAKAWAY STEEL POSTS
9A	FRONTAGE ROAD ENTRANCE	GREEN / WHITE	US 52	995+00	42 LT	40	30	8.3	REMAIN												MOUNTED ON SAME STEEL POST AS 9B
9B	M6-4 TWO-DIRECTION ARROWS	GREEN / WHITE	US 52	995+00	42 LT	21	15	2.2	REMAIN												MOUNTED ON SAME STEEL POST AS 9A
10	R5-1100 USE PROHIBITED BY - BUCKLE UP	BLACK / WHITE	US 52	996+92	128 RT	48	60	20	RELOCATE		1		20								1 PANEL ON WOOD POST
12	I-55 SOUTH BLOOMINGTON - NORMAL / I-55 NORTH CHICAGO DIRECTIONAL ARROWS	GREEN / WHITE	US 52	1005+34	58 LT	96	54	36	RELOCATE		1			36			1.4	156	577.5		1 PANEL ON TWO BREAKAWAY STEEL POSTS
13	R2-1 SPEED LIMIT 40 MPH	BLACK / WHITE	US 52	1007+39	81 LT	24	30	5	RELOCATE	1		5			1						1 PANEL ON 1 SQUARE STEEL POST
14A	FRONTAGE ROAD ENTRANCE	GREEN / WHITE	US 52	1008+03	42 LT	40	30	8.3	REMAIN												MOUNTED ON SAME WOOD POST AS 14B
14B	M6-4 TWO-DIRECTION ARROWS	GREEN / WHITE	US 52	1008+03	42 LT	21	15	2.2	REMAIN												MOUNTED ON SAME WOOD POST AS 14A
15	R1-1 STOP	RED / WHITE	US 52	1010+85	53 RT	30	30	6.3	REMAIN												1 PANEL ON 1 WOOD POST
16	ILLINOIS 7 3, KANKAKEE 40	GREEN / WHITE	US 52	1008+79	42 RT	56	30	11.7	REMAIN												1 PANEL ON 1 STEEL POST



USER NAME = kxoehneke	DESIGNED - ATS	REVISED -
DRAWN - ATS	REVISIONS -	
PLOT SCALE = 2,000' / in.	CHECKED - KEK	REVISED -
PLOT DATE = 3/19/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLAN
SCHEDULE OF QUANTITIES

SCALE: 1" = 50' SHEET 2 OF 11 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
607	2018-075-B-R	WILL	280	122
CONTRACT NO. 62H16				
ILLINOIS FED. AID PROJECT				

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EXISTING SIGNS TO REMAIN AND SIGNING RELOCATION SCHEDULE										RELOC SIGN PANEL ASSY TA	RELOC SIGN PANEL ASSY TB	RELOC SIGN PANEL T1	RELOC SIGN PANEL T2	RELOC SIGN PANEL T3	REM RELOC GR MT SIGN SUPPORT	INSTALL EXISTING SIGN PANEL	CONC FOUND	REINF BARS EPOXY COATED	STR STEEL SIGN SUPP BA	REMARKS	
ASSEMBLY ID	LEGEND/DESCRIPTION	COLOR	ALIGNMENT	STATION	OFFSET	W (IN)	H (IN)	AREA (SQ FT)	REMAIN OR RELOCATE	EACH	EACH	SQ FT	SQ FT	SQ FT	EACH	SQ FT	CU YD	POUND	POUND		
17	HOME OF THE STORY DISTRICT 30-C BOYS BASKETBALL TEAM 2010 CLASS AAA STATE CHAMPIONS	GREEN/WHITE	US 52	1008+70	41 LT	60	42	17.5	REMAIN												1 PANEL ON 1 STEEL POST
19	CRASH INVESTIGATION SITE	BLUE/WHITE	I-55 SB EXIT RAMP	110+33	28 LT	48	48	16	REMAIN												1 PANEL ON 1 WOOD POST
20	D9-18A GENERAL SERVICES	BLUE/WHITE	I-55 SB EXIT RAMP	113+24	26 RT	96	60	40	REMAIN												1 PANEL ON TWO BREAKAWAY STEEL POSTS
21	R5-1A WRONG WAY	RED/WHITE	I-55 SB EXIT RAMP	116+47	38 LT	30	18	3.8	REMAIN												1 PANEL ON 1 SQUARE STEEL POST
22	I-55 EXIT 253B JOLIET LEFT DIRECTIONAL ARROW, SHOREWOOD RIGHT DIRECTIONAL ARROW	GREEN/WHITE	I-55 SB EXIT RAMP	115+63	37 RT	96	54	36	RELOCATE		1			36			1.4	156	577.5		1 PANEL ON 2 BREAKAWAY STEEL POSTS
24	R5-1A WRONG WAY	RED/WHITE	I-55 SB EXIT RAMP	114+33	41 LT	30	18	3.8	RELOCATE	1		3.8			1						1 PANEL ON 1 SQUARE STEEL POST
25	D9-18A GENERAL SERVICES	BLUE/WHITE	I-55 SB EXIT RAMP	111+10	26 RT	96	60	40	REMAIN												1 PANEL ON TWO BREAKAWAY STEEL POSTS
28A	I-7 TRAIN	GREEN/WHITE	I-55 NB EXIT RAMP	315+26	21 RT	24	24	4	RELOCATE	1		4				4					MOUNTED ON SAME LIGHT POLE AS 28B, 28C. RELOCATE TO NORTHBOUND RAMP EXIT POST
28B	I1-I109 AMTRAK	GREEN/WHITE	I-55 NB EXIT RAMP	315+26	21 RT	24	12	2	RELOCATE			2				2					MOUNTED ON SAME LIGHT POLE AS 28A, 28C. RELOCATE TO NORTHBOUND RAMP EXIT POST
28C	M5-1 RIGHT ARROW	GREEN/WHITE	I-55 NB EXIT RAMP	315+26	21 RT	21	15	2.2	RELOCATE			2.2				2.2					MOUNTED ON SAME LIGHT POLE AS 28A, 28B. RELOCATE TO NORTHBOUND RAMP EXIT POST
29	R5-1A WRONG WAY	RED/WHITE	I-55 NB EXIT RAMP	315+26	30 LT	30	18	3.8	REMAIN												1 PANEL ON 1 SQUARE STEEL POST
30	R5-1 DO NOT ENTER	RED/WHITE	I-55 NB EXIT RAMP	317+86	25 RT	36	36	9	RELOCATE		1	9									MOUNTED ON SAME WOOD POST AS 33A, 33B, 34
32	D9-18A GENERAL SERVICES	BLUE/WHITE	I-55 NB EXIT RAMP	314+39	20 RT	96	60	40	REMAIN												1 PANEL ON TWO BREAKAWAY STEEL POSTS
33A	D9-2 HOSPITAL	BLUE/WHITE	I-55 NB EXIT RAMP	317+86	25 RT	24	24	4	RELOCATE			4									MOUNTED ON SAME WOOD POST AS 30, 33B, 34
33B	M6-1 RIGHT ARROW	BLUE/WHITE	I-55 NB EXIT RAMP	317+86	25 RT	21	15	2.2	RELOCATE			2.2									MOUNTED ON SAME WOOD POST AS 30, 33A, 34
34	R6-1 ONE WAY (RIGHT)	BLACK/WHITE	I-55 NB EXIT RAMP	317+86	25 RT	36	12	3	RELOCATE			6									MOUNTED ON SAME WOOD POST AS 30, 33A, 33B
35	US 52 WESTBOUND SHOREWOOD / US 52 EASTBOUND JOLIET	GREEN/WHITE	I-55 NB EXIT RAMP	315+84	24 RT	96	54	36	RELOCATE					36			1.4	156	577.5		1 PANEL ON TWO BREAKAWAY STEEL POSTS
36	D4-2 PARK & RIDE	GREEN/WHITE	I-55 NB EXIT RAMP	317+86	32 RT	36	48	12	REMAIN												MOUNTED ON SAME STEEL POSTS AS 40, 41
37	R5-1A WRONG WAY	RED/WHITE	I-55 NB EXIT RAMP	316+42	35 LT	30	18	3.8	REMAIN												1 PANEL ON 1 WOOD POST
38	R5-1A WRONG WAY	RED/WHITE	I-55 NB EXIT RAMP	316+56	25 RT	30	18	3.8	RELOCATE	1		3.8				3.8					1 PANEL MOUNTED ON LIGHT POLE, RELOCATE TO POST

USER NAME = kxoehneke	DESIGNED - ATS	REVISED -
DRAWN - ATS	REVISED -	
PLOT SCALE = 2,000' / in.	CHECKED - KEK	REVISED -
PLOT DATE = 3/19/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLAN
SCHEDULE OF QUANTITIES

SCALE: 1" = 50' SHEET 3 OF 11 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
607	2018-075-B-R	WILL	280	123
CONTRACT NO. 62H16				
ILLINOIS / FED. AID PROJECT				

MODEL: Default
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EXISTING SIGNS TO REMAIN AND SIGNING RELOCATION SCHEDULE										RELOC SIGN PANEL ASSY TA	RELOC SIGN PANEL ASSY TB	RELOC SIGN PANEL T1	RELOC SIGN PANEL T2	RELOC SIGN PANEL T3	REM RELOC GR MT SIGN SUPPORT	INSTALL EXISTING SIGN PANEL	CONC FOUND	REINF BARS EPOXY COATED	STR STEEL SIGN SUPP BA	REMARKS	
ASSEMBLY ID	LEGEND/DESCRIPTION	COLOR	ALIGNMENT	STATION	OFFSET	W (IN)	H (IN)	AREA (SQ FT)	REMAIN OR RELOCATE	EACH	EACH	SQ FT	SQ FT	SQ FT	EACH	SQ FT	CU YD	POUND	POUND		
40	R5-1 DO NOT ENTER	RED/WHITE	I-55 NB EXIT RAMP	317+86	32 RT	36	36	9	REMAIN												MOUNTED ON SAME STEEL POSTS AS 36, 41
41	R6-1 ONE WAY (RIGHT)	BLACK/WHITE	I-55 NB EXIT RAMP	317+86	32 RT	36	12	3	REMAIN												MOUNTED ON SAME STEEL POSTS AS 36, 40
42A	W3-3 TRAFFIC SIGNAL AHEAD	RED/GREEN/YELLOW	SE FRONTAGE RD	495+36	20 RT	36	36	9	REMAIN												MOUNTED ON SAME SQUARE STEEL POST AS 42B
42B	US RTE 52	BLACK/YELLOW	SE FRONTAGE RD	495+36	20 RT	30	9	1.9	REMAIN												MOUNTED ON SAME SQUARE STEEL POST AS 42A
43A	W1-1 RIGHT TURN AHEAD	BLACK/YELLOW	SE FRONTAGE RD	494+20	31 LT	36	36	9	RELOCATE		1	9			1						MOUNTED ON SAME SQUARE STEEL POST AS 43B
43B	W13-1 30 MPH	BLACK/YELLOW	SE FRONTAGE RD	494+20	31 LT	18	18	2.3	RELOCATE			2.3									MOUNTED ON SAME SQUARE STEEL POST AS 43A
44	R2-1 SPEED LIMIT 45 MPH	BLACK/WHITE	SE FRONTAGE RD	496+50	35 LT	24	30	5	RELOCATE	1		5			1						1 PANEL ON 1 SQUARE STEEL POST
45A	I1-1107A LOVE THE LAND OF LINCOLN	WHITE/GREEN/PURPLE	SE FRONTAGE RD	497+65	35 LT	30	36	7.5	RELOCATE		1	7.5			1						MOUNTED ON SAME SQUARE STEEL POST AS 45B, 45C
45B	I1-1107B ADOPT-A-HIGHWAY	BLACK/WHITE/GREEN	SE FRONTAGE RD	497+65	35 LT	30	18	3.8	RELOCATE			3.8									MOUNTED ON SAME SQUARE STEEL POST AS 45A, 45C
45C	I1-1107C KEEP ILLINOIS CLEAN	GREEN/WHITE	SE FRONTAGE RD	497+65	35 LT	36	36	9	RELOCATE			4.5									MOUNTED ON SAME SQUARE STEEL POST AS 45A, 45B
46	R10-7 DO NOT BLOCK DRIVE	BLACK/WHITE	SE FRONTAGE RD	498+46	19 RT	24	30	5	RELOCATE	1		5			1						1 PANEL ON 1 SQUARE STEEL POST
47A	W3-3 TRAFFIC SIGNAL AHEAD	RED/GREEN/YELLOW	NE FRONTAGE RD	506+09	29 LT	36	36	9	RELOCATE		1	9			1						MOUNTED ON SAME SQUARE STEEL POST AS 47B
47B	US RTE 52	BLACK/YELLOW	NE FRONTAGE RD	506+09	29 LT	30	9	1.9	RELOCATE			1.9									MOUNTED ON SAME SQUARE STEEL POST AS 47A
TOTAL										9	8	110	40	108	9	20	4	468	1733		



USER NAME = kxoehneke	DESIGNED - ATS	REVISED -
	DRAWN - ATS	REVISED -
PLOT SCALE = 2,0000' / in.	CHECKED - KEK	REVISED -
PLOT DATE = 3/19/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLAN			
SCHEDULE OF QUANTITIES			
SCALE: 1" = 50'	SHEET 4	OF 11 SHEETS	STA. TO STA.

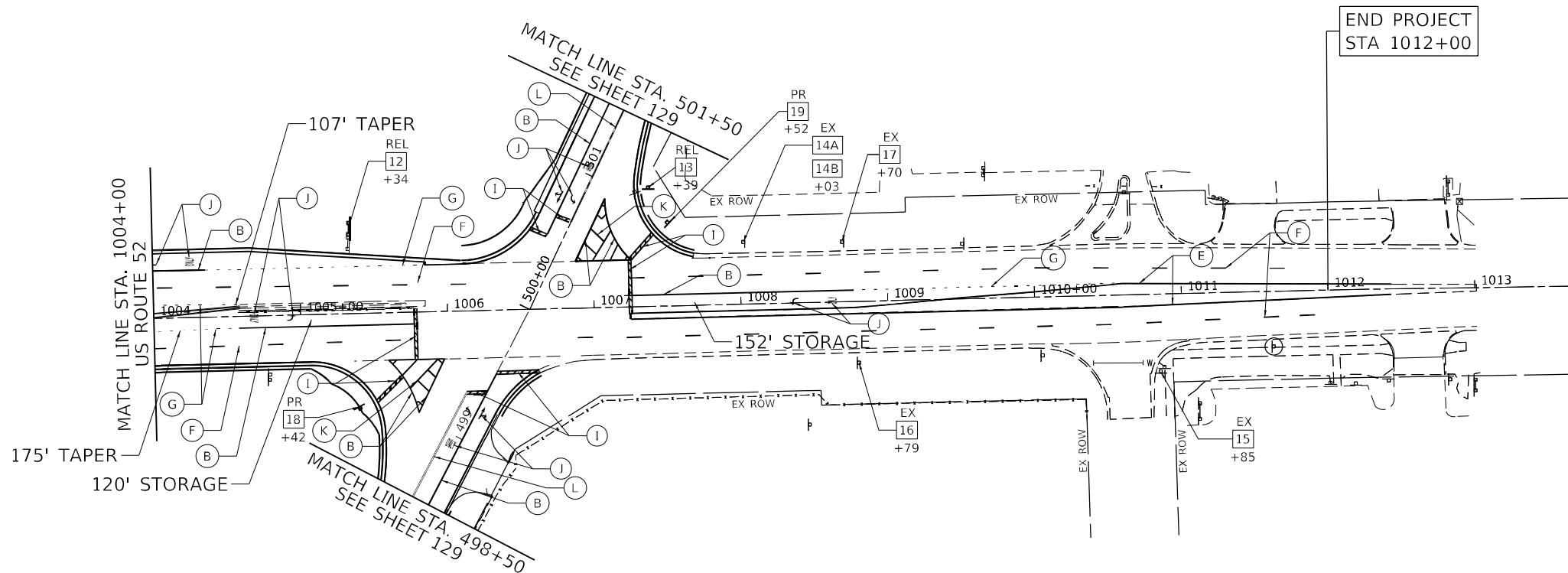
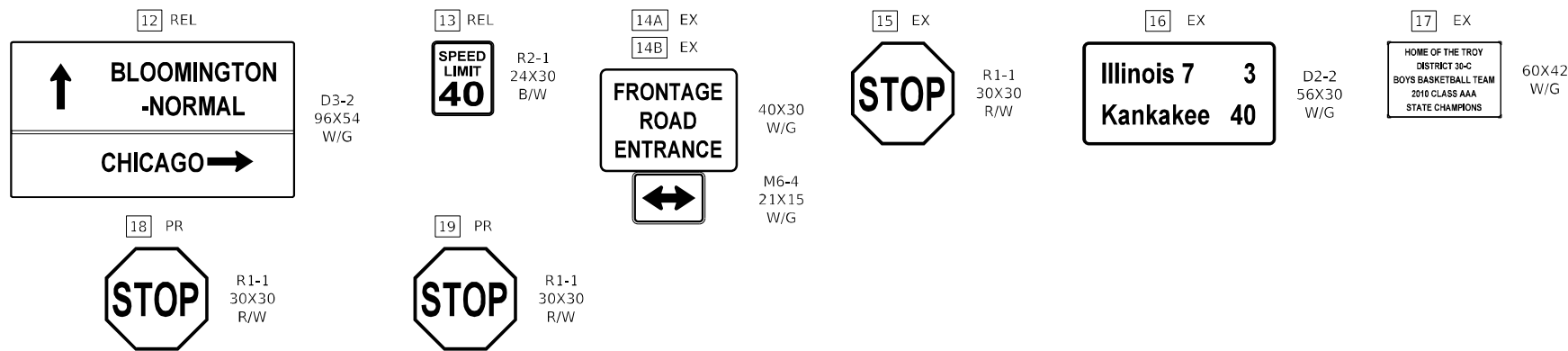
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
607	2018-075-B-R	WILL	280	124
			CONTRACT NO. 62H16	
ILLINOIS FED. AID PROJECT				

NOTES

- SEE GENERAL PAVEMENT MARKING AND SIGNING NOTES ON SHEET XXX.
- ALL PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH TC-13 "DISTRICT ONE TYPICAL PAVEMENT MARKINGS" STANDARD DETAIL.
- ALL RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH TC-11 "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" STANDARD DETAIL.

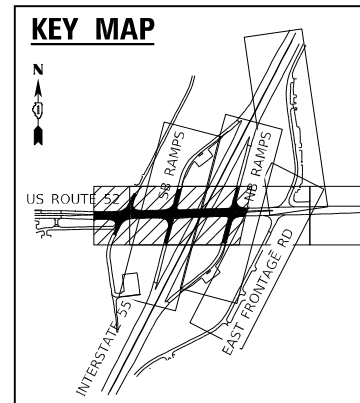
SIGNING LEGEND

R	REMOVAL
REL	RELOCATE
EX	EXISTING
PR	PROPOSED



PAVEMENT MARKING LEGEND

- | | | |
|---|--|--|
| (A) MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (SOLID WHITE) | (G) MODIFIED URETHANE PAVEMENT MARKING - LINE 6" (WHITE 2'-6" SKIP LINE) | (M) THERMOPLASTIC PAVEMENT MARKING - LINE 6" (SOLID WHITE) |
| (B) MODIFIED URETHANE PAVEMENT MARKING - LINE 6" (SOLID WHITE) | (H) MODIFIED URETHANE PAVEMENT MARKING - LINE 6" (WHITE 3'-9" SKIP LINE) | (N) THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE 2'-6" SKIP LINE) |
| (C) MODIFIED URETHANE PAVEMENT MARKING - LINE 8" (SOLID WHITE) | (I) MODIFIED URETHANE PAVEMENT MARKING - LINE 24" (WHITE STOP BAR) | (O) THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW, 11" C-C) |
| (D) MODIFIED URETHANE PAVEMENT MARKING - LINE 12" (SOLID WHITE) | (J) MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS (WHITE) | (P) THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW 45° DIAGONALS) SPACING 75' BETWEEN DIAGONALS |
| (E) MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (SOLID YELLOW) | (K) MODIFIED URETHANE PAVEMENT MARKING - LINE 12" (WHITE 45° CHEVRONS) 10' SPACING | (Q) THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (WHITE) |
| (F) PREFORMED CONTRAST PLASTIC PAVEMENT MARKING, TYPE B - LINE 7" (WHITE 10'-30' SKIP LINE) | (L) MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW, 11" C-C) | |



MODEL: Default
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 PLOT DATE: 4/28/2022

	USER NAME = kxoehneke	DESIGNED - ML	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND SIGNING PLAN US ROUTE 52		F.A.P. RTE. = 607	SECTION = 2018-075-B-R	COUNTY = WILL	TOTAL SHEETS = 280	SHEET NO. = 126
	PLOT SCALE = 100,0000' / in.	CHECKED - KEK	REVISED -		SCALE: 1" = 50'	SHEET 6 OF 11 SHEETS	STA. TO STA.	CONTRACT NO. 62H16		ILLINOIS FED. AID PROJECT	
	PLOT DATE = 4/28/2022	DATE -	REVISED -								

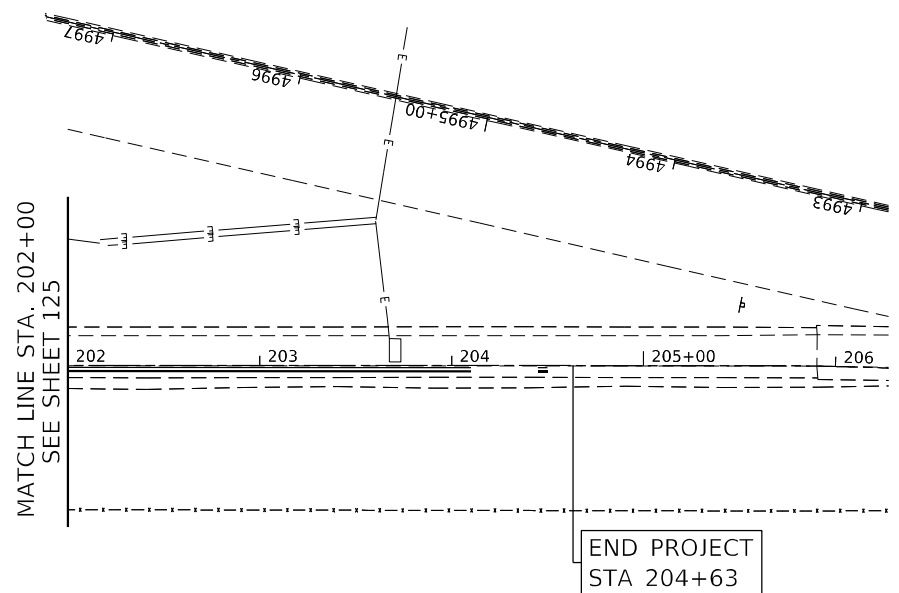
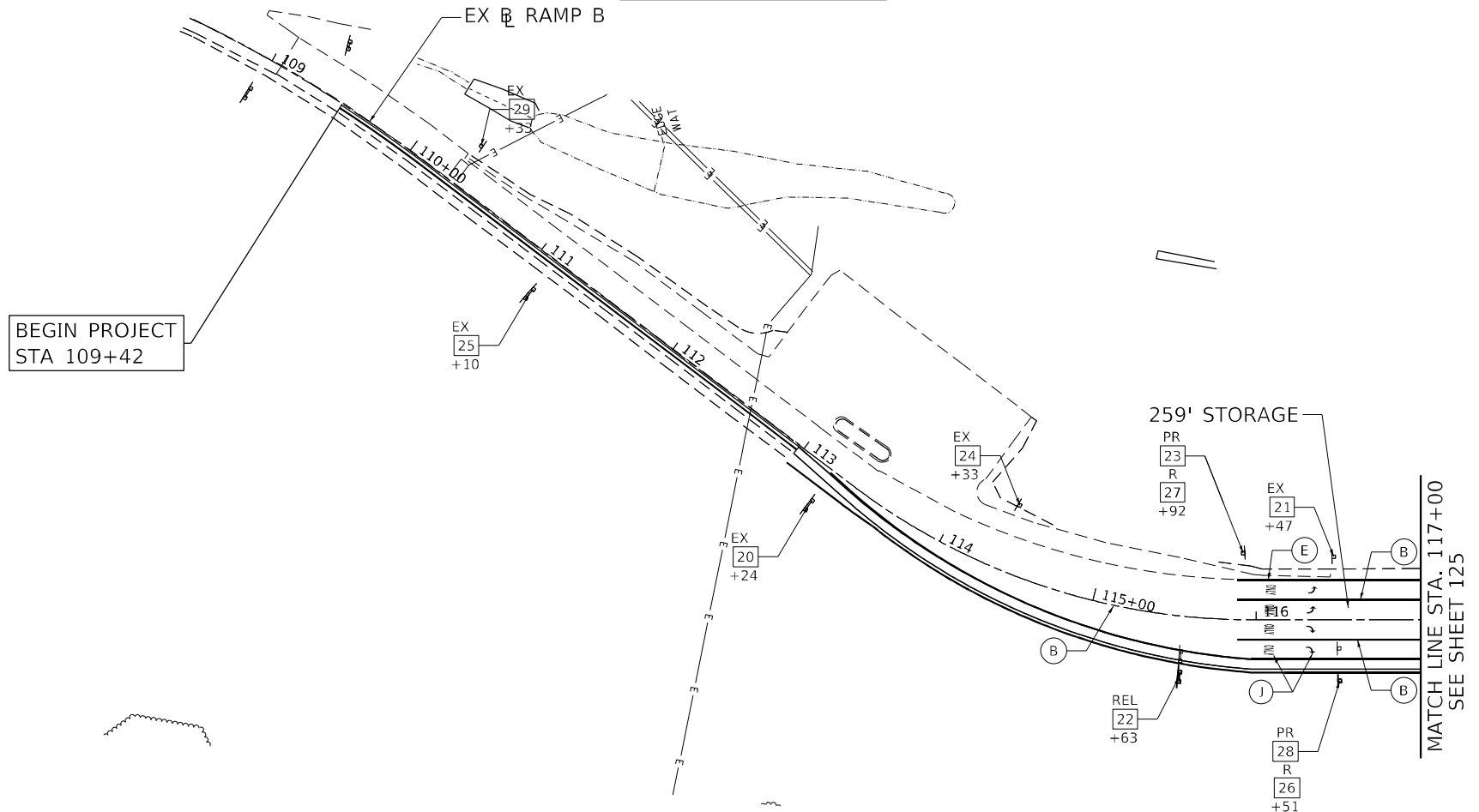
NOTES

- SEE GENERAL PAVEMENT MARKING AND SIGNING NOTES ON SHEET XXX.
- ALL PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH TC-13 "DISTRICT ONE TYPICAL PAVEMENT MARKINGS" STANDARD DETAIL.
- ALL RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH TC-11 "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" STANDARD DETAIL.

SIGNING LEGEND

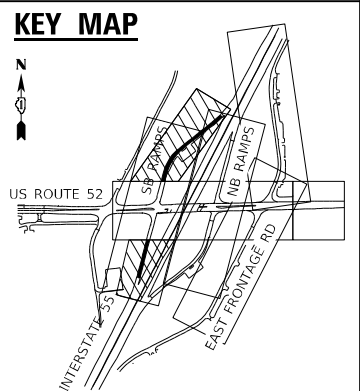
R	REMOVAL
REL	RELOCATE
EX	EXISTING
PR	PROPOSED

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<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> <div style="border: 1px solid black; padding: 2px; display: inline-block;">25 EX</div> </div> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> GAS/FOOD </div> <div style="text-align: center;">D9-18a 96X60 W/BL</div>	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> <div style="border: 1px solid black; padding: 2px; display: inline-block;">26 R</div> </div> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> <div style="display: flex; justify-content: space-around; align-items: center;"> ← ONLY ← ONLY </div> </div> <div style="text-align: center;">R3-30AA 36X30 B/W</div>	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> <div style="border: 1px solid black; padding: 2px; display: inline-block;">27 R</div> </div> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> <div style="display: flex; justify-content: space-around; align-items: center;"> ← ONLY ← ONLY </div> </div> <div style="text-align: center;">R3-30AA 36X30 B/W</div>	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> <div style="border: 1px solid black; padding: 2px; display: inline-block;">28 PR</div> </div> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> <div style="display: flex; justify-content: space-around; align-items: center;"> ← ONLY ← ONLY ← ONLY ← ONLY </div> </div> <div style="text-align: center;">R3-30ABBA 66X30 B/W</div>	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> <div style="border: 1px solid black; padding: 2px; display: inline-block;">29 EX</div> </div> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> CRASH INVESTIGATION SITE </div> <div style="text-align: center;">48X48 W/BL</div>



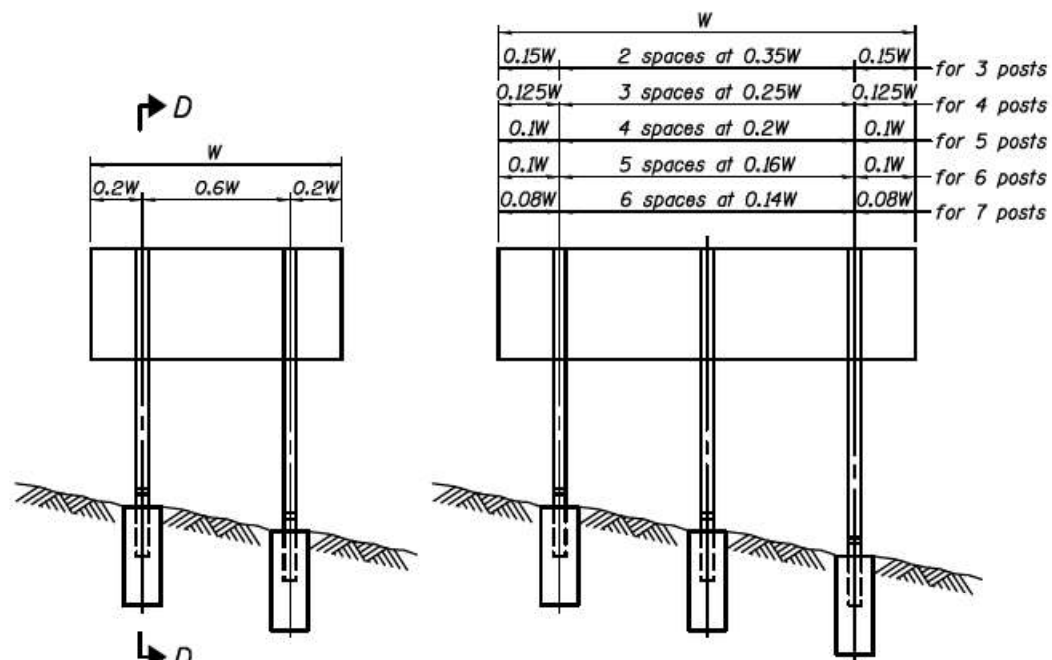
PAVEMENT MARKING LEGEND

- | | | |
|---|--|--|
| (A) MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (SOLID WHITE) | (G) MODIFIED URETHANE PAVEMENT MARKING - LINE 6" (WHITE 2'-6" SKIP LINE) | (M) THERMOPLASTIC PAVEMENT MARKING - LINE 6" (SOLID WHITE) |
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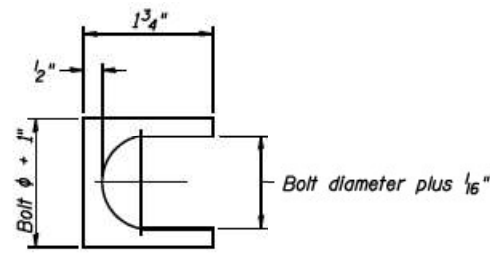
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	USER NAME = kxoehneke	DESIGNED - ML	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND SIGNING PLAN RAMP B AND RAMP D	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100,000' / in.	DRAWN - ATS	REVISED -			607	2018-075-B-R	WILL	280	127
	PLOT DATE = 4/28/2022	CHECKED - KEK	REVISED -			CONTRACT NO. 62H16				
		DATE -	REVISED -		SCALE: 1" = 50'	SHEET 7 OF 11 SHEETS		STA.	TO STA.	
						ILLINOIS FED. AID PROJECT				

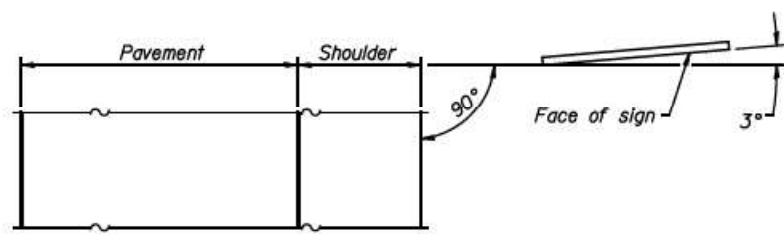


0.15W	2 spaces at 0.35W	0.15W	for 3 posts
0.125W	3 spaces at 0.25W	0.125W	for 4 posts
0.1W	4 spaces at 0.2W	0.1W	for 5 posts
0.1W	5 spaces at 0.16W	0.1W	for 6 posts
0.08W	6 spaces at 0.14W	0.08W	for 7 posts

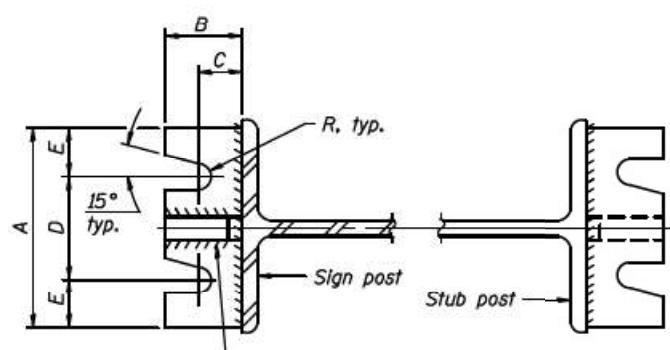
ELEVATION



SHIM DETAIL
Furnish two 0.01" thick and two 0.03" thick stainless steel or brass (ASTM B36) shims per post.

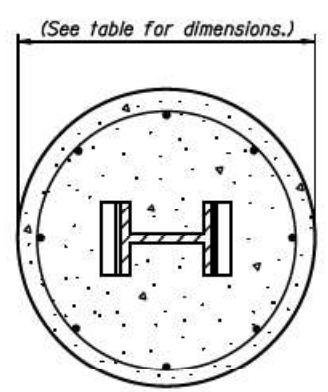


LOCATION SKETCH

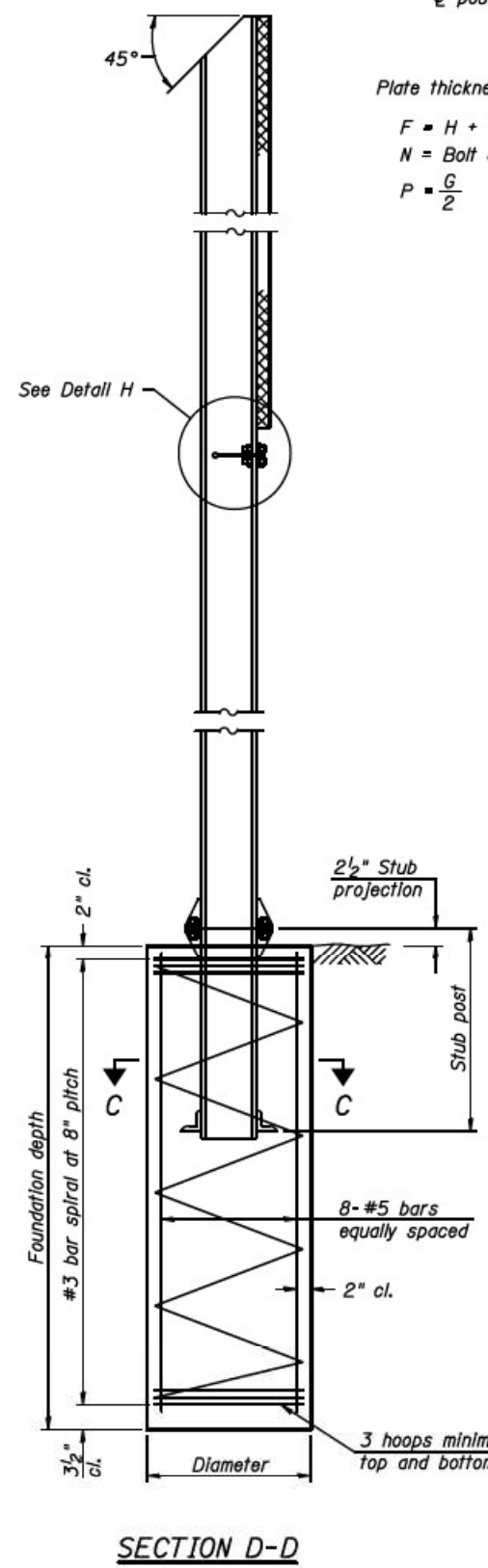


SECTION A-A

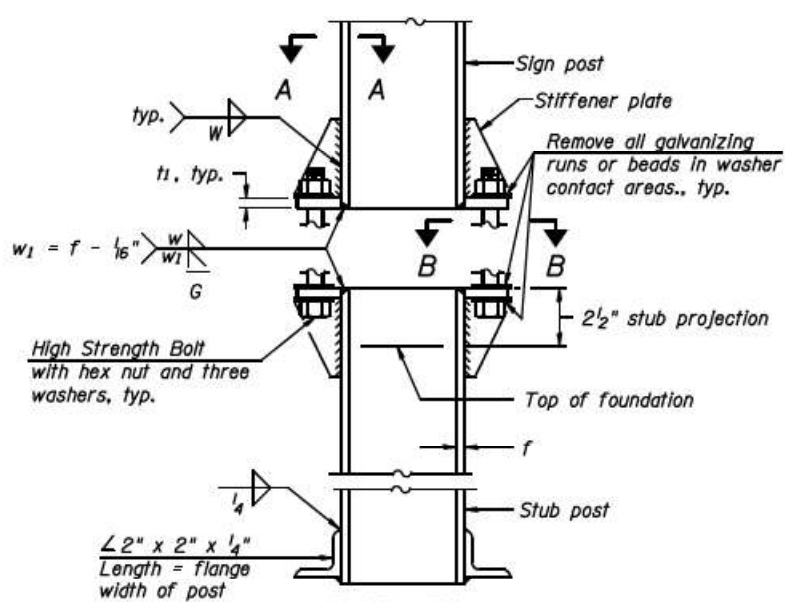
SECTION B-B



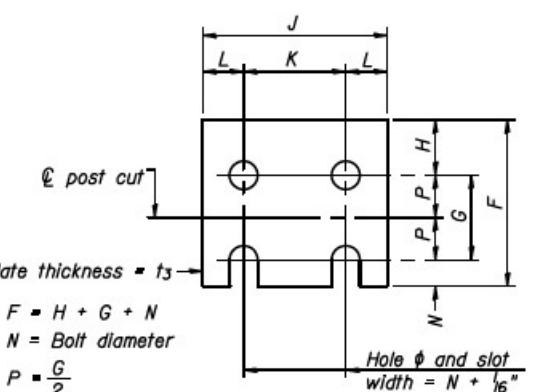
SECTION C-C



SECTION D-D

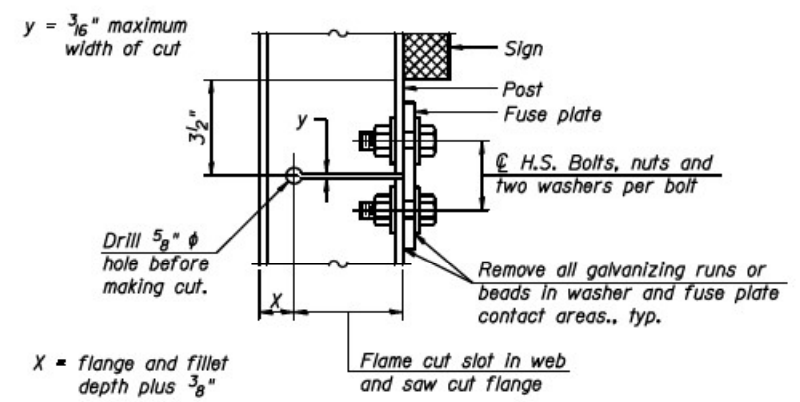


ELEVATION SIGN POST & STUB POST

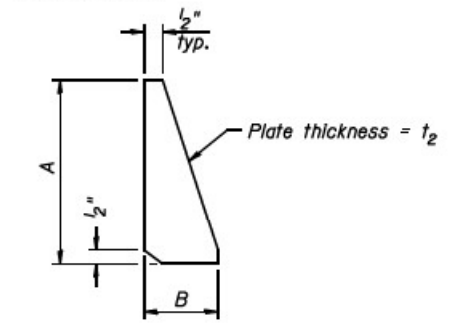


FUSE PLATE DETAIL
(Install with notches down.)

N = Bolt Diameter	G	H
1/2"	2"	1 1/8"
5/8"	2 1/4"	1 1/4"
3/4"	2 1/2"	1 3/8"
7/8"	2 3/4"	1 1/2"
1"	3"	1 5/8"
1 1/8"	3 1/4"	1 3/4"
1 1/4"	3 1/2"	1 7/8"



DETAIL H



STIFFENER PLATE DETAIL

GENERAL NOTES

Posts shall be plumbed by using shims with post-to-stub post connection bolts snug tight only. Final tightening of all High Strength Bolts shall be in accordance with Article 727.05 and threads at the junction of the bolt and nut shall be burred or center punched to prevent the nut from loosening.

LOADING: 80 m.p.h. wind with 30% gust factor, normal to sign.

DESIGN STRESSES:
Structural steel - 20,000 p.s.i.
Reinforcing steel - 20,000 p.s.i.
Concrete - 1,400 p.s.i.
Footing soil pressure - 2,000 p.s.f.

After fabrication, the post, fuse plate and upper 6", min. of the stub post shall be hot-dip galvanized in accordance with AASHTO M111. All bolts, nuts and washers shall be hot-dip galvanized in accordance with AASHTO M232.

Work this sheet with Base Sheet BAW-A-2.

BAW-A-1

6-1-12

(Sheet 1 of 2)



USER NAME = kxoehneke	DESIGNED - ATS	REVISED -
PLOT SCALE = 2,000' / in.	DRAWN - ATS	REVISED -
PLOT DATE = 3/19/2022	CHECKED - KEK	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BREAK-AWAY WIDE FLANGE
STEEL SIGN POST DETAILS

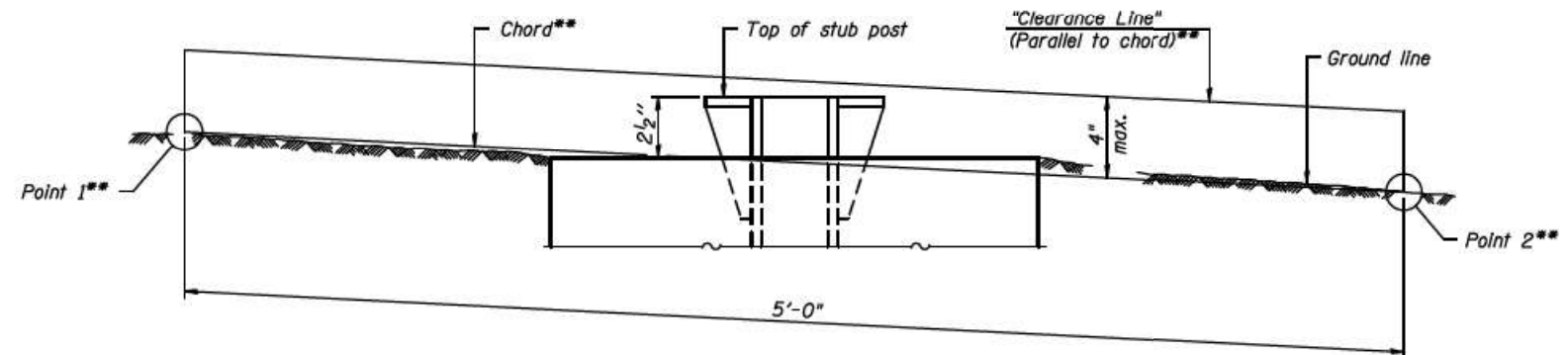
SCALE: N.T.S. SHEET 10 OF 11 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
607	2018-075-B-R	WILL	280	130
CONTRACT NO. 62H16				
ILLINOIS FED. AID PROJECT				

POST	CONCRETE FOUNDATION TABLE							POST TO STUB POST CONNECTION DATA										FUSE PLATE DATA				
	Foundation			Reinforcement			Stub Post Length	Bolt Size	A	B	C	D	E	t ₁	t ₂	R	W	J	K	L	t ₃	
	Diameter	Minimum Depth	Concrete (cu. yds.)	Vertical Bars Length	Bar Spirals Diameter	Bar Spirals Length																lbs. (2)
W6x9	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-3"	5/8" x 3/4"	6"	2 1/4"	1 1/4"	3 1/2"	1 1/4"	3/4"	1/2"	11/32"	1/4"	4"	2 1/4"	7/8"	1/4"
W6x15	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-6"	5/8" x 3/4"	6"	2 1/4"	1 1/4"	3 1/2"	1 1/4"	3/4"	1/2"	11/32"	1/4"	6"	3 1/2"	1 1/4"	3/8"
W8x18	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-6"	3/4" x 3 3/4"	6"	2 1/2"	1 3/8"	3 1/4"	1 3/8"	1"	1/2"	11/32"	5/16"	5 1/4"	2 3/4"	1 1/4"	3/8"
W10x22	2'-6"	6'-6"	1.18	6'-3"	2'-2 1/2"	105'-0"	92	3'-0"	3/4" x 3 3/4"	6"	2 1/2"	1 3/8"	3 1/4"	1 3/8"	1"	1/2"	11/32"	5/16"	5 3/4"	2 3/4"	1 1/2"	1/2"
W10x26	2'-6"	7'-0"	1.27	6'-9"	2'-2 1/2"	112'-0"	98	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	3/4"	5/32"	3/8"	5 3/4"	2 3/4"	1 1/2"	5/8"
W12x26	2'-6"	7'-9"	1.41	7'-6"	2'-2 1/2"	119'-0"	107	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	3/4"	5/32"	3/8"	6 1/2"	3 1/2"	1 1/2"	5/8"
W14x30	3'-0"	7'-3"	1.90	7'-0"	2'-8 1/2"	145'-0"	113	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	3/4"	5/32"	3/8"	6 3/4"	3 1/2"	1 5/8"	1/2"
W14x38	3'-0"	8'-0"	2.09	7'-9"	2'-8 1/2"	153'-0"	122	3'-6"	1" x 4 1/2"	7 1/2"	3"	1 3/4"	4"	1 3/4"	1 1/4"	3/4"	11/32"	3/8"	6 3/4"	3 1/2"	1 5/8"	1/2"
W16x45	3'-0"	8'-6"	2.23	8'-3"	2'-8 1/2"	162'-0"	130	3'-6"	1" x 4 1/2"	7 1/2"	3"	1 3/4"	4"	1 3/4"	1 1/4"	3/4"	11/32"	3/8"	7"	3 1/2"	1 3/4"	1/2"

*Dimensional changes required for varying site conditions shall be approved by the Engineer.

POST	FUSE PLATE BOLT SIZE																				
	Sign Height																				
	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-0"	14'-0"	15'-0"	16'-0"	17'-0"	18'-0"	19'-0"	20'-0"	21'-0"	22'-0"	23'-0"	24'-0"
W6x9	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
W6x15	1/2" x 1 3/4"	1/2" x 1 3/4"	1/2" x 1 3/4"	5/8" x 2"	5/8" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	---	---	---	---	---	---	---	---	---	---	---	---
W8x18	1/2" x 1 3/4"	1/2" x 1 3/4"	1/2" x 1 3/4"	1/2" x 1 3/4"	5/8" x 2"	5/8" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	---	---	---	---	---	---	---	---	---	---	---
W10x22	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2"	5/8" x 2"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	---	---	---	---	---	---	---	
W10x26	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	---	---	---	---	---	---	
W12x26	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	---	---	---	---	---	
W14x30	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2"	5/8" x 2"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	---	---	---	---	
W14x38	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	7/8" x 2 1/2"	7/8" x 2 1/2"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"
W16x45	---	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	7/8" x 2 1/2"	7/8" x 2 1/2"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"



ELEVATION
GROUND LINE & STUB POST

** For all "Point 1" and "Point 2" locations, "Clearance Line" must be at or above top of stub post.

- ① Quantity includes all concrete necessary for one foundation.
- ② Includes reinforcement bars and spiral hooping for one foundation.

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BAW-A-2

6-1-12

(Sheet 2 of 2)

AEG ATLAS ENGINEERING GROUP, LTD.

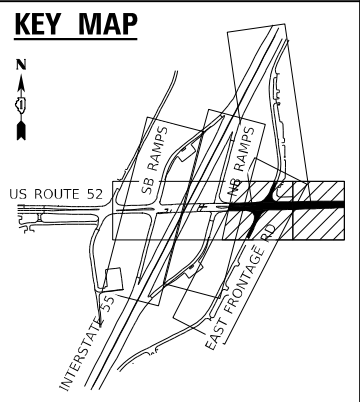
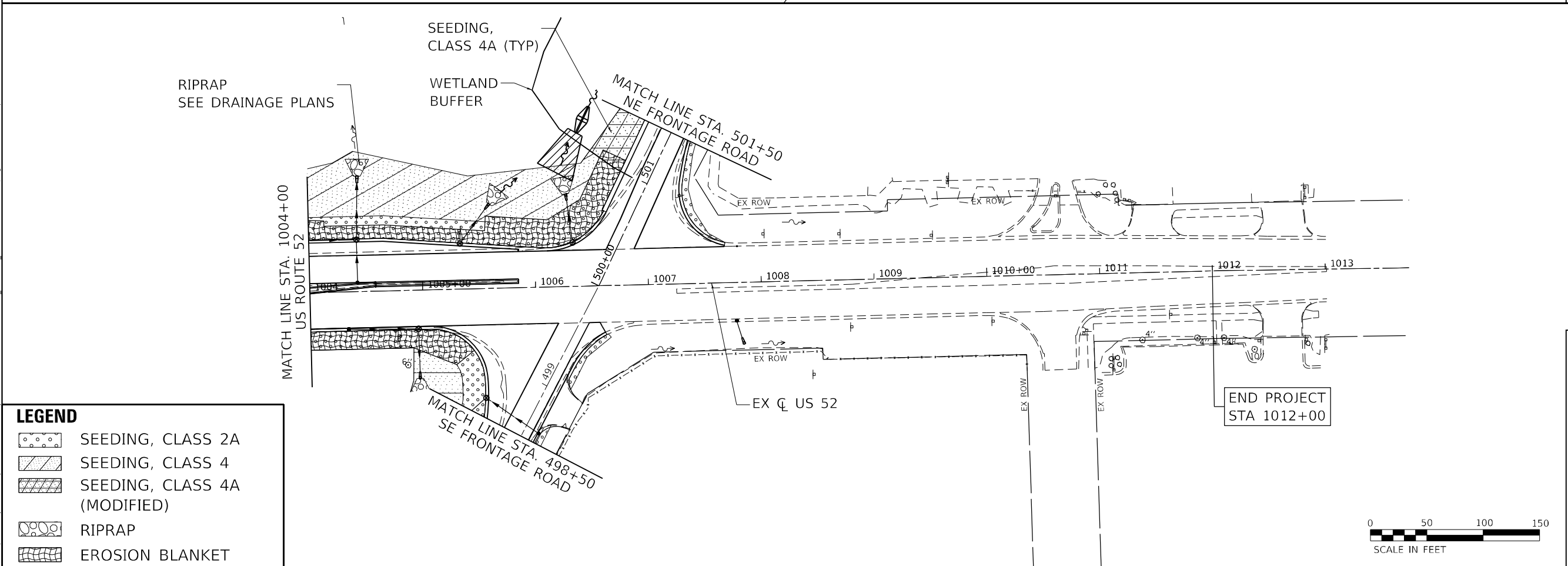
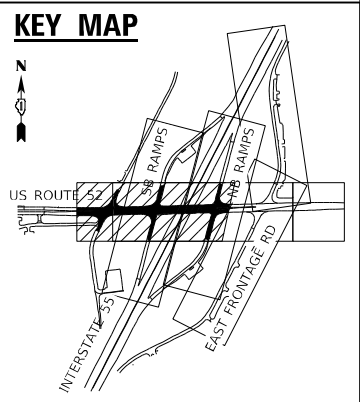
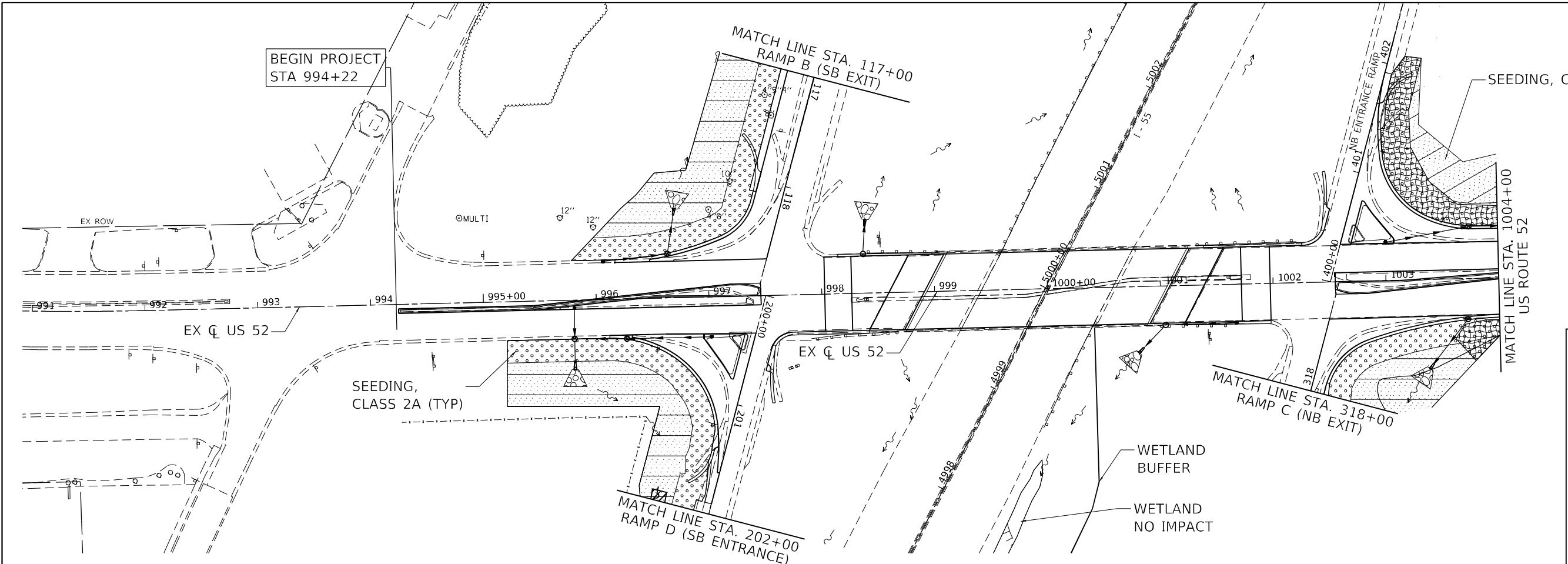
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BREAK-AWAY WIDE FLANGE
STEEL SIGN POST TABLES

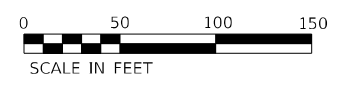
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
607	2018-075-B-R	WILL	280	131
CONTRACT NO. 62H16				
ILLINOIS FED. AID PROJECT				



LEGEND

	SEEDING, CLASS 2A
	SEEDING, CLASS 4
	SEEDING, CLASS 4A (MODIFIED)
	RIPRAP
	EROSION BLANKET



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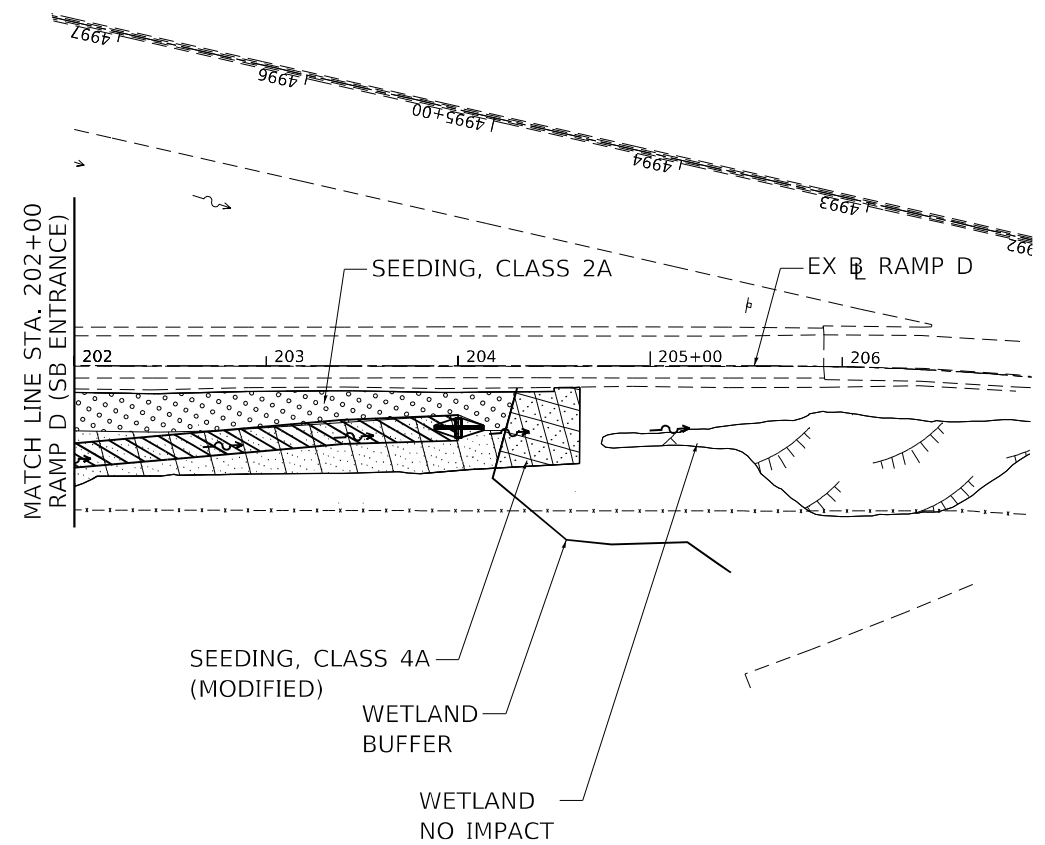
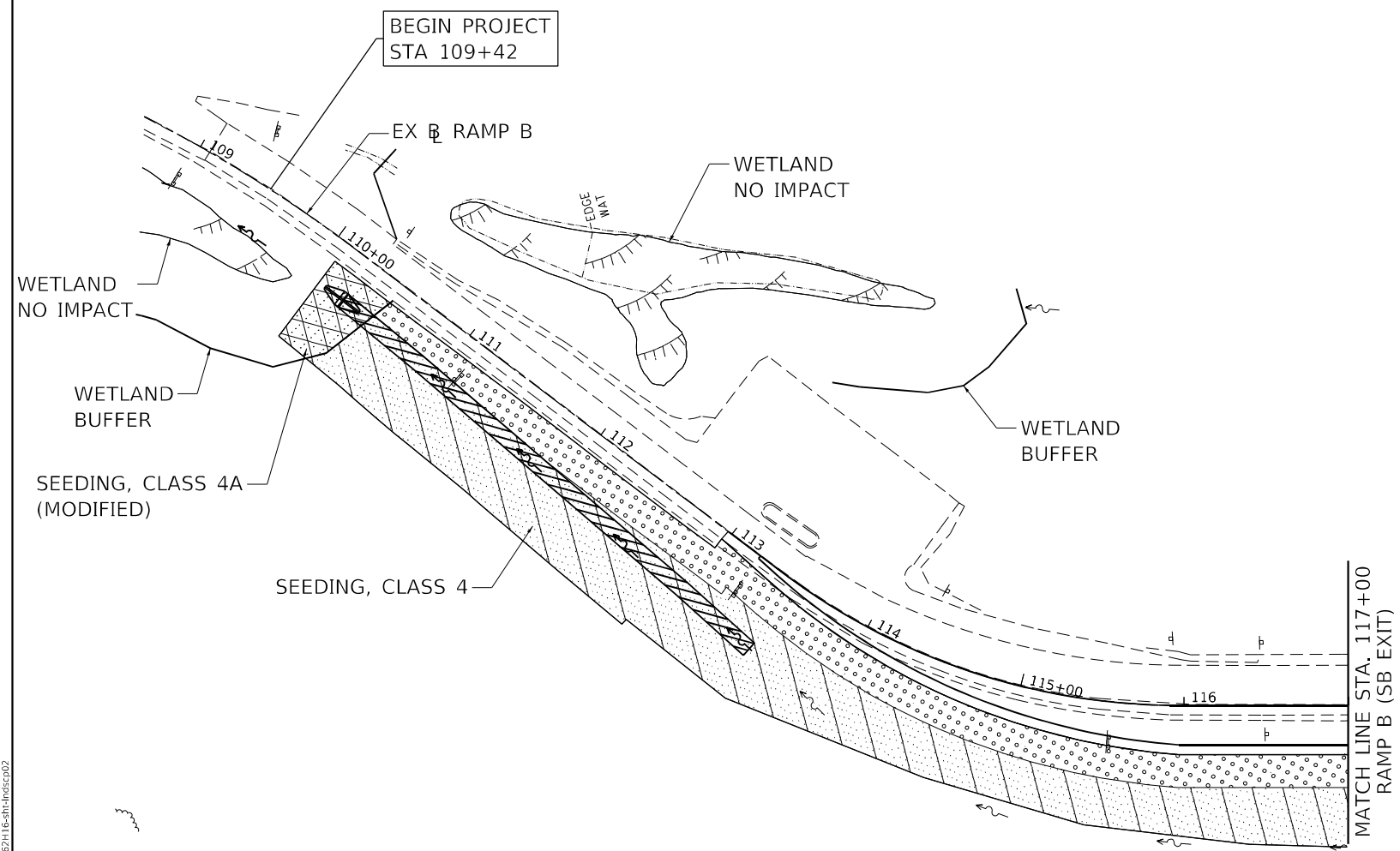
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN
US ROUTE 52

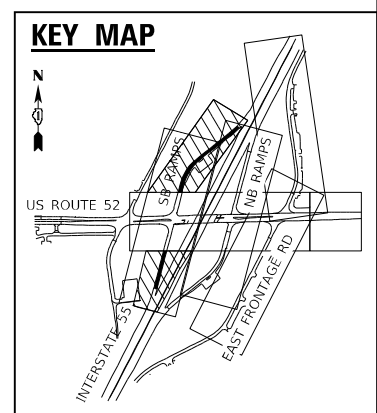
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
607	2018-075-B-R	WILL	280	132
CONTRACT NO. 62H16				
ILLINOIS FED. AID PROJECT				



LEGEND

	SEEDING, CLASS 2A
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	SEEDING, CLASS 4A (MODIFIED)
	EROSION BLANKET
	RIPRAP



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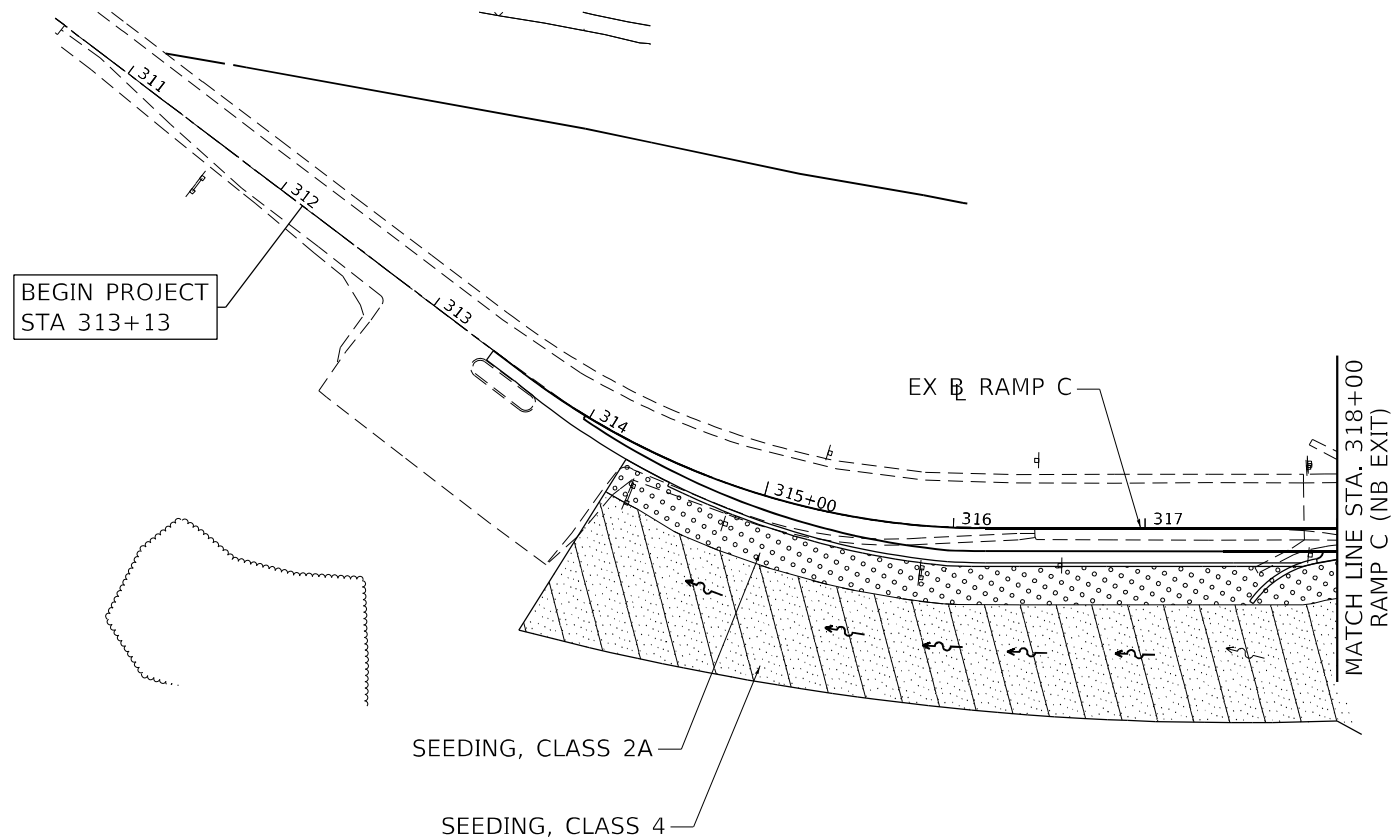
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PLOT DATE = 3/19/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LANDSCAPING PLAN
RAMP B AND RAMP D**

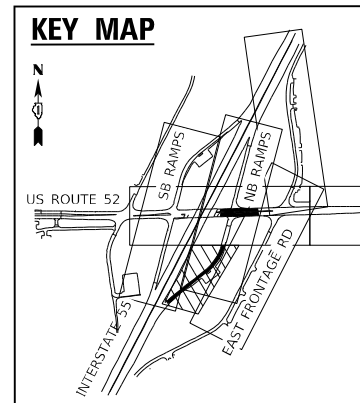
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
607	2018-075-B-R	WILL	280	133
CONTRACT NO. 62H16				
ILLINOIS FED. AID PROJECT				



LEGEND

- SEEDING, CLASS 2A
- SEEDING, CLASS 4
- SEEDING, CLASS 4A (MODIFIED)
- RIPRAP
- EROSION BLANKET



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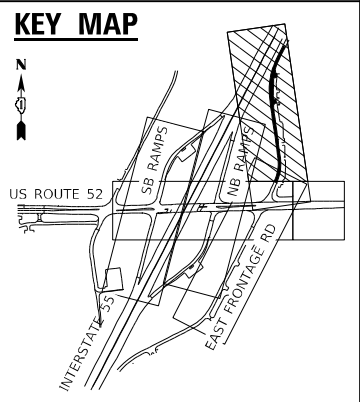
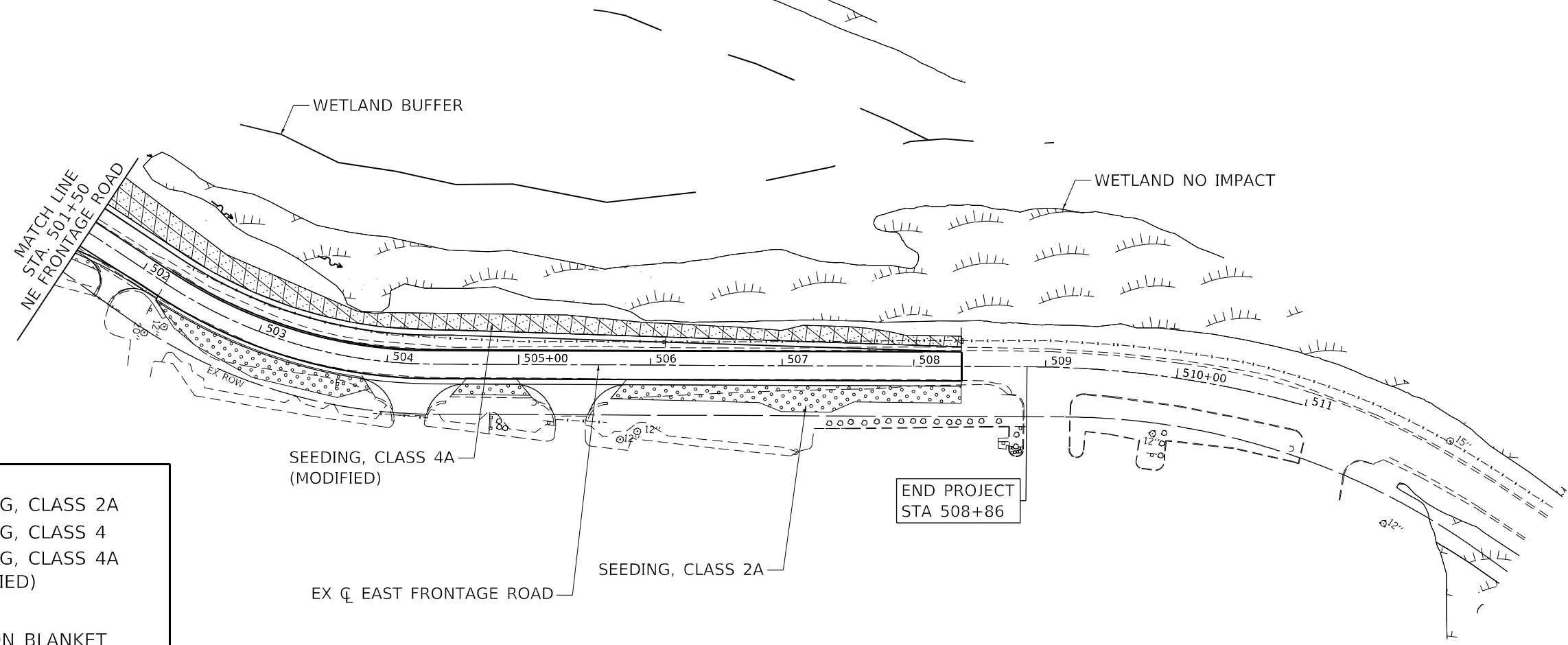
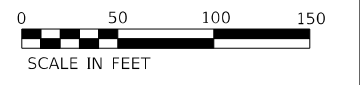
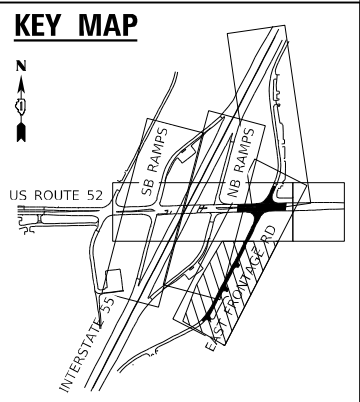
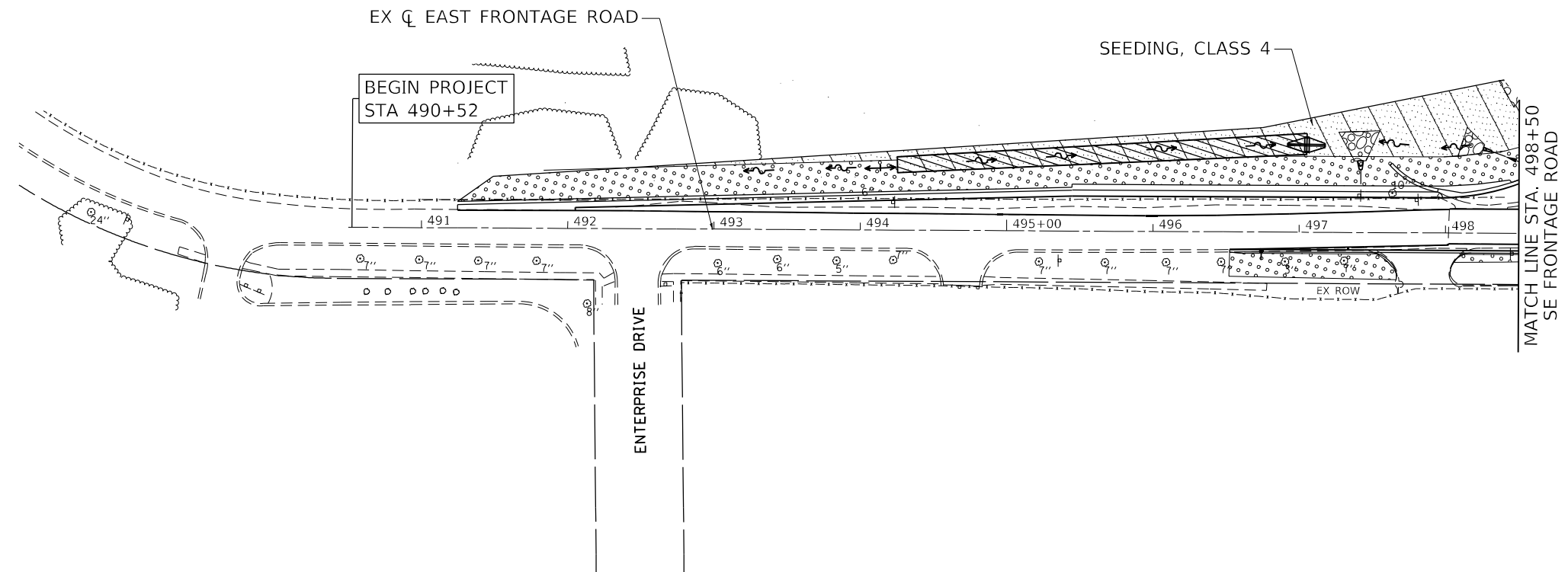
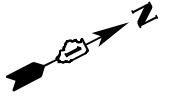
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LANDSCAPING PLAN
RAMP C**

SCALE: 1" = 50' SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
607	2018-075-B-R	WILL	280	134
CONTRACT NO. 62H16				
ILLINOIS FED. AID PROJECT				



LEGEND

	SEEDING, CLASS 2A
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	SEEDING, CLASS 4A (MODIFIED)
	RIPRAP
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 Date: 3/19/2022

AEG ATLAS ENGINEERING GROUP, LTD.

USER NAME = kxoeheke	DESIGNED - AS	REVISED -
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PLOT DATE = 3/19/2022	CHECKED - KEK	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LANDSCAPING PLAN
EAST FRONTAGE ROAD**

SCALE: 1" = 50' SHEET 4 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
607	2018-075-B-R	WILL	280	135
CONTRACT NO. 62H16				
ILLINOIS FED. AID PROJECT				

TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

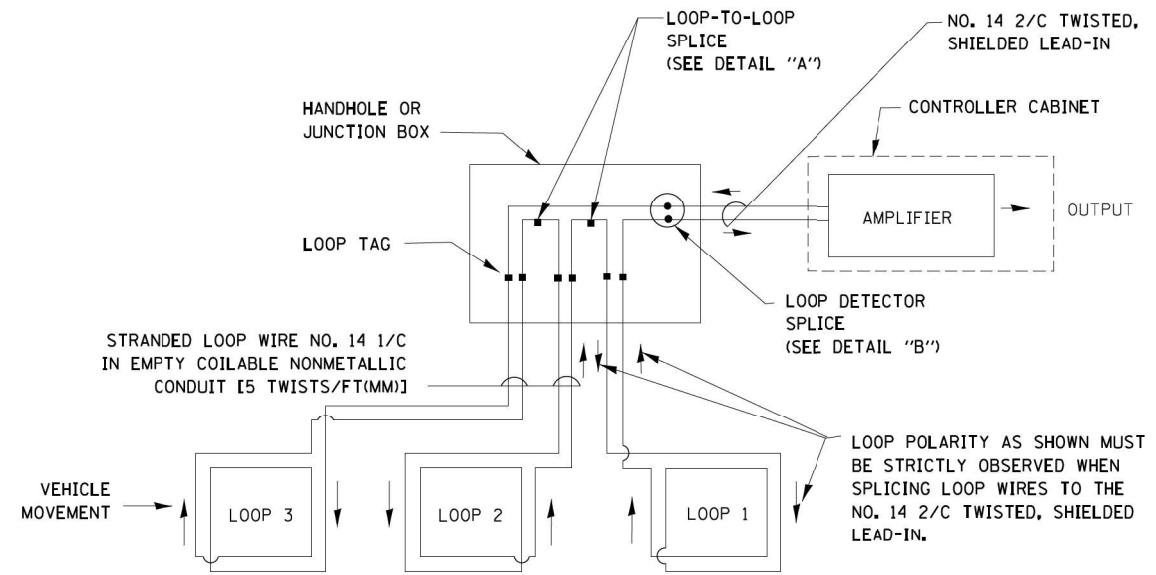
ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED
CONTROLLER CABINET			HANDHOLE -SQUARE -ROUND			SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD		
COMMUNICATION CABINET			HEAVY DUTY HANDHOLE -SQUARE -ROUND			SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE		
MASTER CONTROLLER			DOUBLE HANDHOLE			PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
MASTER MASTER CONTROLLER			JUNCTION BOX			PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER		
UNINTERRUPTABLE POWER SUPPLY			RAILROAD CANTILEVER MAST ARM			ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
SERVICE INSTALLATION -(P) POLE MOUNTED			RAILROAD FLASHING SIGNAL			NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED		
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED			RAILROAD CROSSING GATE			GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)		
TELEPHONE CONNECTION			RAILROAD CROSSBUCK			ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C		
STEEL MAST ARM ASSEMBLY AND POLE			RAILROAD CONTROLLER CABINET			COAXIAL CABLE		
ALUMINUM MAST ARM ASSEMBLY AND POLE			UNDERGROUND CONDUIT (UC), GALVANIZED STEEL			VENDOR CABLE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE			TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE			COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY			SYSTEM ITEM	S	SP	FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F		
WOOD POLE			INTERSECTION ITEM	I	IP	GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE		
GUY WIRE			REMOVE ITEM		R			
SIGNAL HEAD			RELOCATE ITEM		RL			
SIGNAL HEAD WITH BACKPLATE			ABANDON ITEM		A			
SIGNAL HEAD OPTICALLY PROGRAMMED			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED		RCF			
FLASHER INSTALLATION -(FS) SOLAR POWERED			MAST ARM POLE AND FOUNDATION TO BE REMOVED		RMF			
PEDESTRIAN SIGNAL HEAD			SIGNAL POST AND FOUNDATION TO BE REMOVED		RPF			
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON			DETECTOR LOOP, TYPE I					
RADAR DETECTION SENSOR			PREFORMED DETECTOR LOOP					
VIDEO DETECTION CAMERA			SAMPLING (SYSTEM) DETECTOR					
RADAR/VIDEO DETECTION ZONE			INTERSECTION AND SAMPLING (SYSTEM) DETECTOR					
PAN, TILT, ZOOM (PTZ) CAMERA			QUEUE AND SAMPLING (SYSTEM) DETECTOR					
EMERGENCY VEHICLE LIGHT DETECTOR			WIRELESS DETECTOR SENSOR					
CONFIRMATION BEACON			WIRELESS ACCESS POINT					
WIRELESS INTERCONNECT								
WIRELESS INTERCONNECT RADIO REPEATER								

TS SHT NO.1

FILE NAME =	USER NAME = plascencia	DESIGNED - IP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS				F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 6/10/2016	DATE - 6/8/2016	REVISED -										

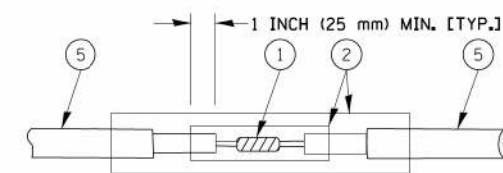
LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

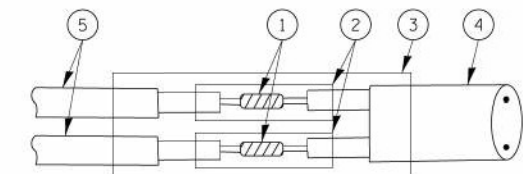


DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

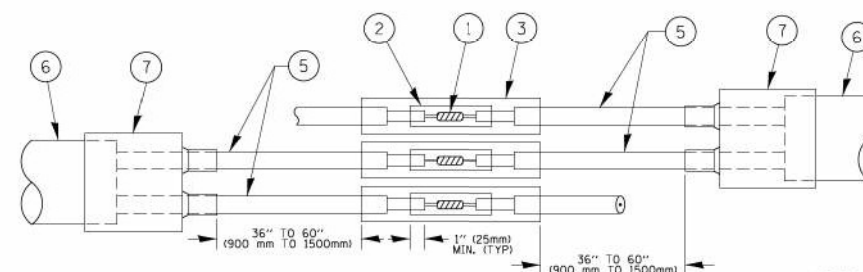


DETAIL "A"
LOOP-TO-LOOP SPLICE

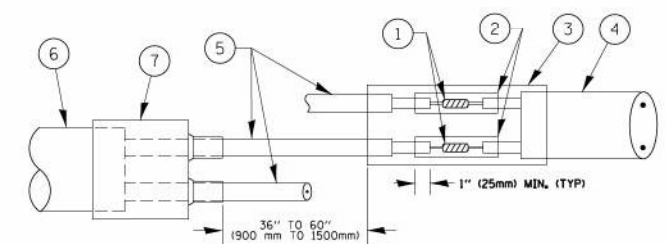


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



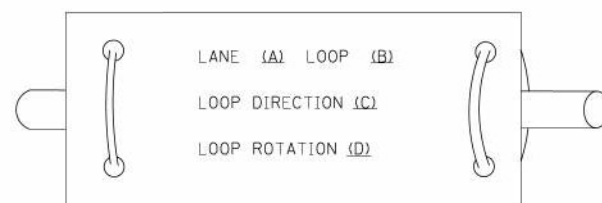
DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

PRE-FORMED LOOP

LOOP LEAD-IN CABLE TAG



- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

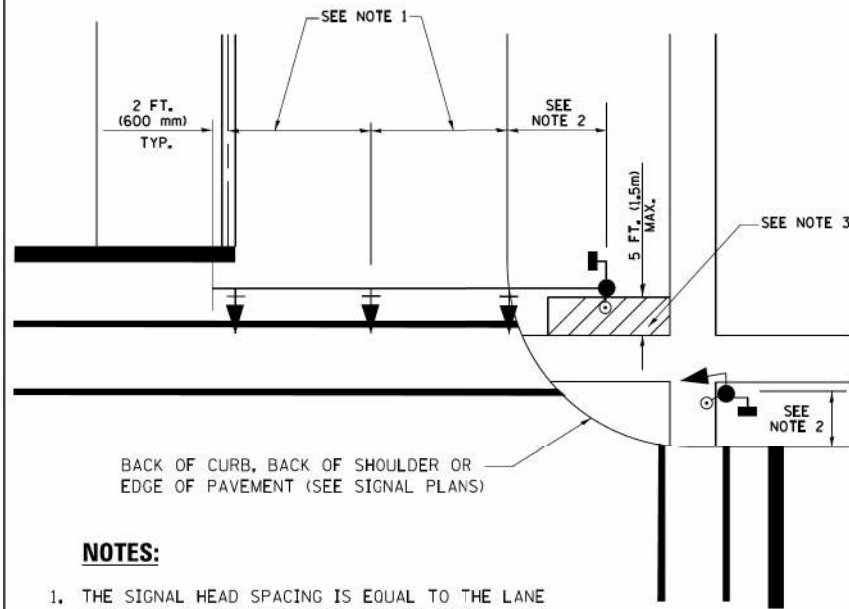
LOOP DETECTOR SPLICE

- ① WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- ② WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- ③ WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- ④ NO. 14 2/C TWISTED, SHIELDED CABLE.
- ⑤ LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- ⑥ PRE-FORMED LOOP
- ⑦ XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS, TYCO CBR-2 OR APPROVED EQUAL

TS SHT NO. 2

FILE NAME =	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS			F.A.U. RTE. 607	SECTION 2018-075-B-R	COUNTY WILL	TOTAL SHEETS 280	SHEET NO. 137
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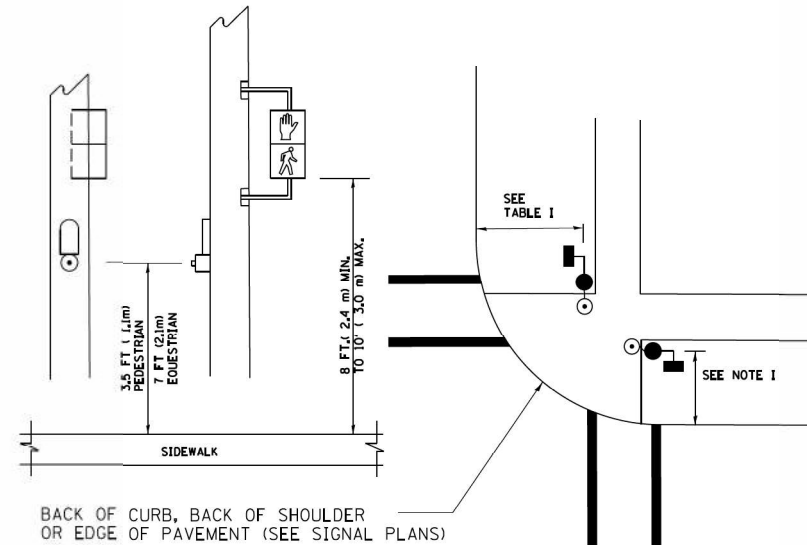
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



NOTES:

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

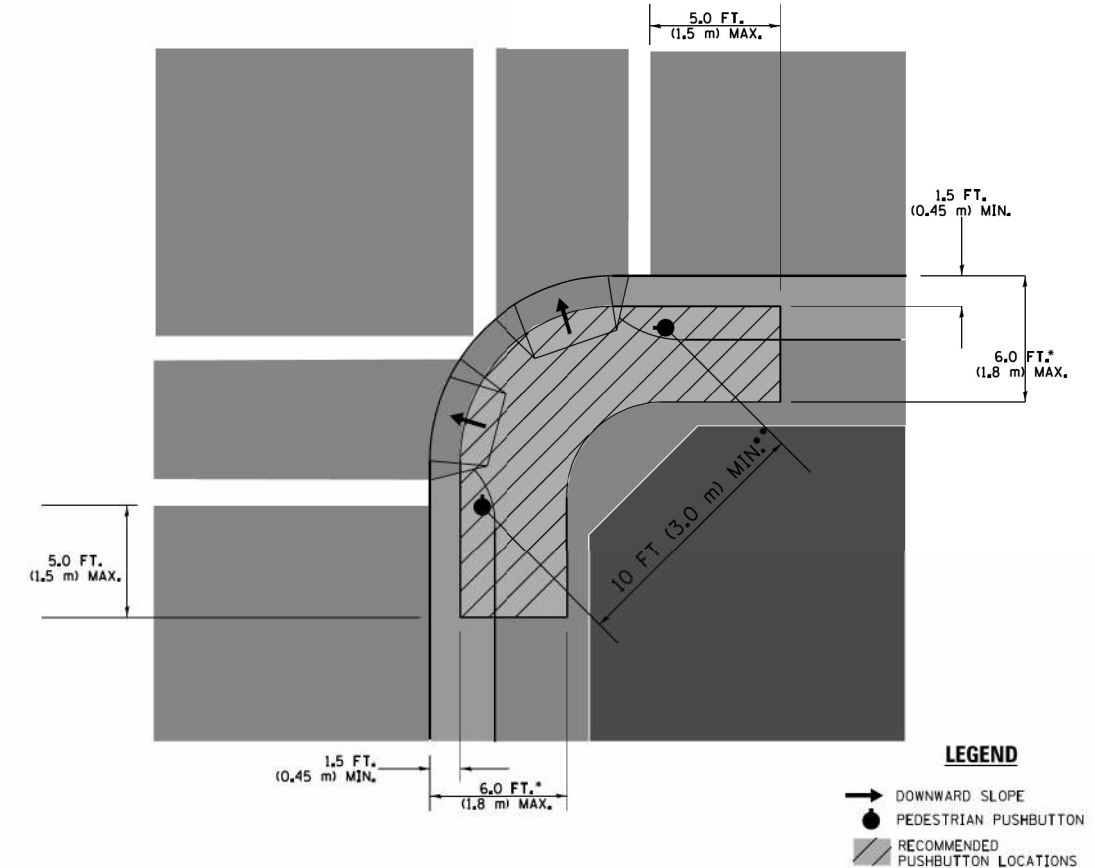
**PEDESTRIAN SIGNAL POST
AND
PEDESTRIAN PUSH BUTTON POST**



NOTES:

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

RECOMMENDED PUSHBUTTON LOCATIONS



- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

TRAFFIC SIGNAL EQUIPMENT OFFSET

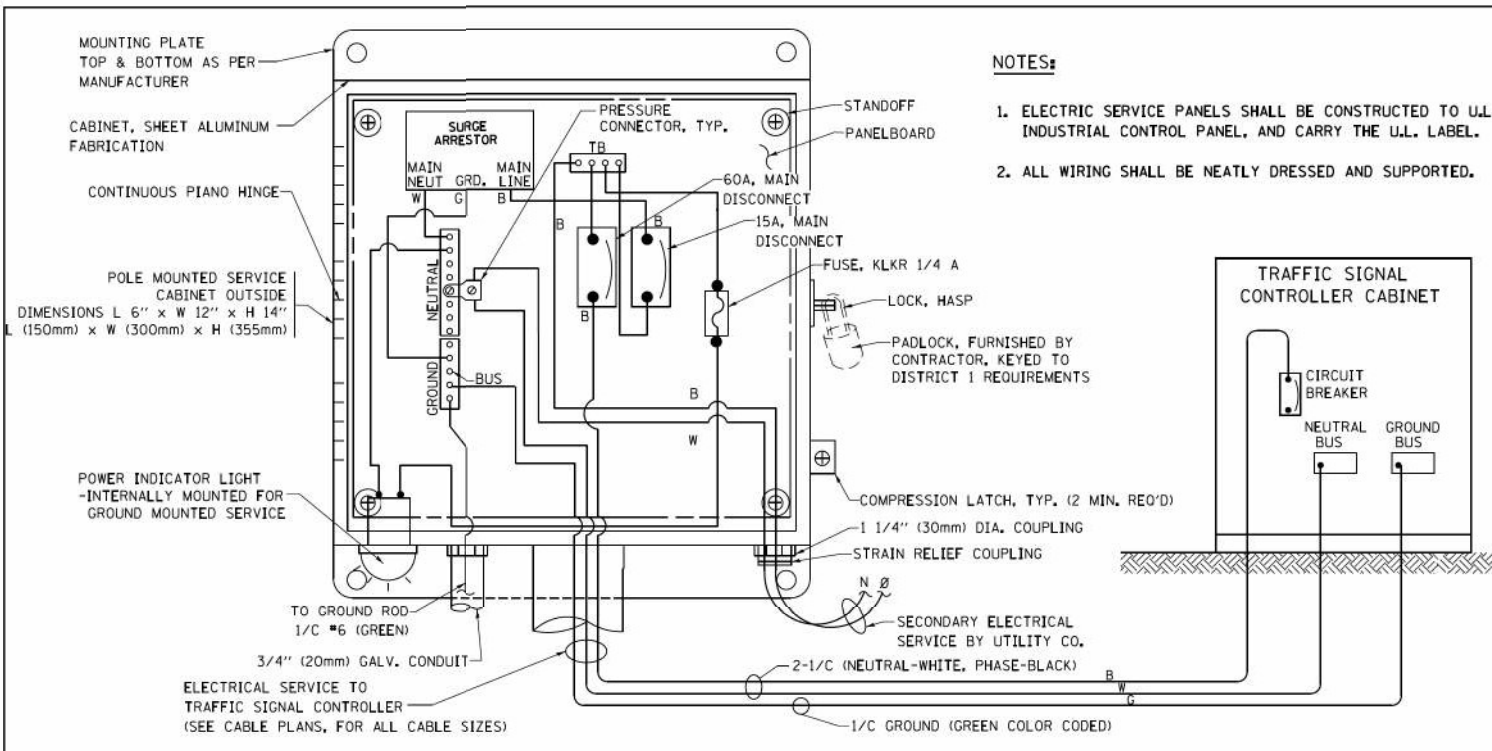
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

NOTES:

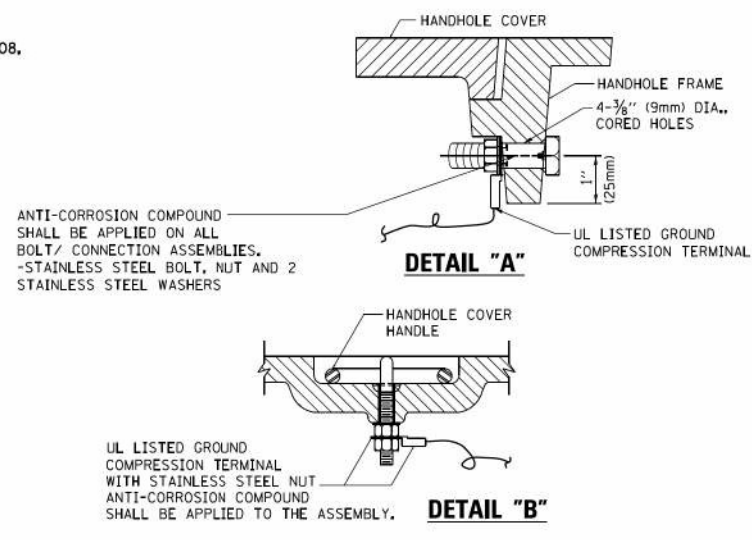
1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

TS SHT NO. 3

FILE NAME =	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS	F.A. RTE. = 607	SECTION = 2018-075-B-R	COUNTY = WILL	TOTAL SHEETS = 280	SHEET NO. = 138	
ca:\pwork\pwork\footemj\d0108315\ts05.dgn	DRAWN - BCK	CHECKED - DAD	REVISED -			SCALE: NONE	SHEET NO. 3 OF 7 SHEETS	STA. TO STA.	TS-05		CONTRACT NO. 62H16
PLOT SCALE = 50.0000' / 1"	DATE - 10-28-09	REVISED -	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					
PLOT DATE = 1/13/2014											

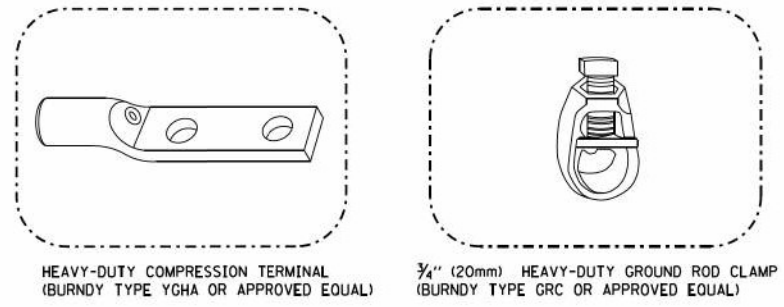
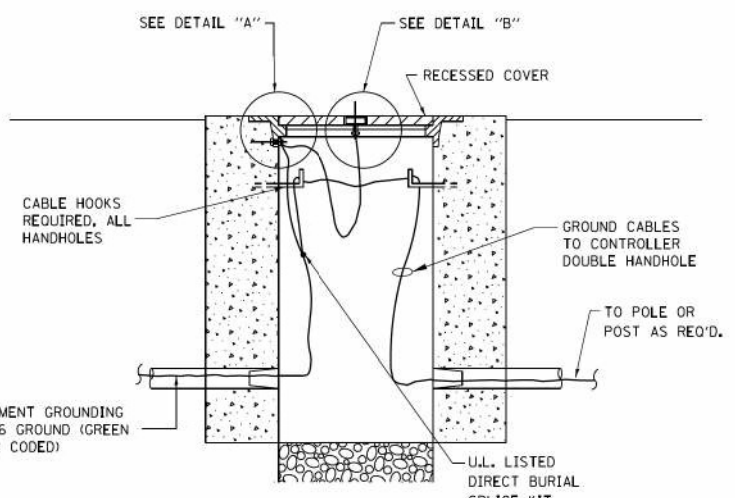


ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
 (NOT TO SCALE)



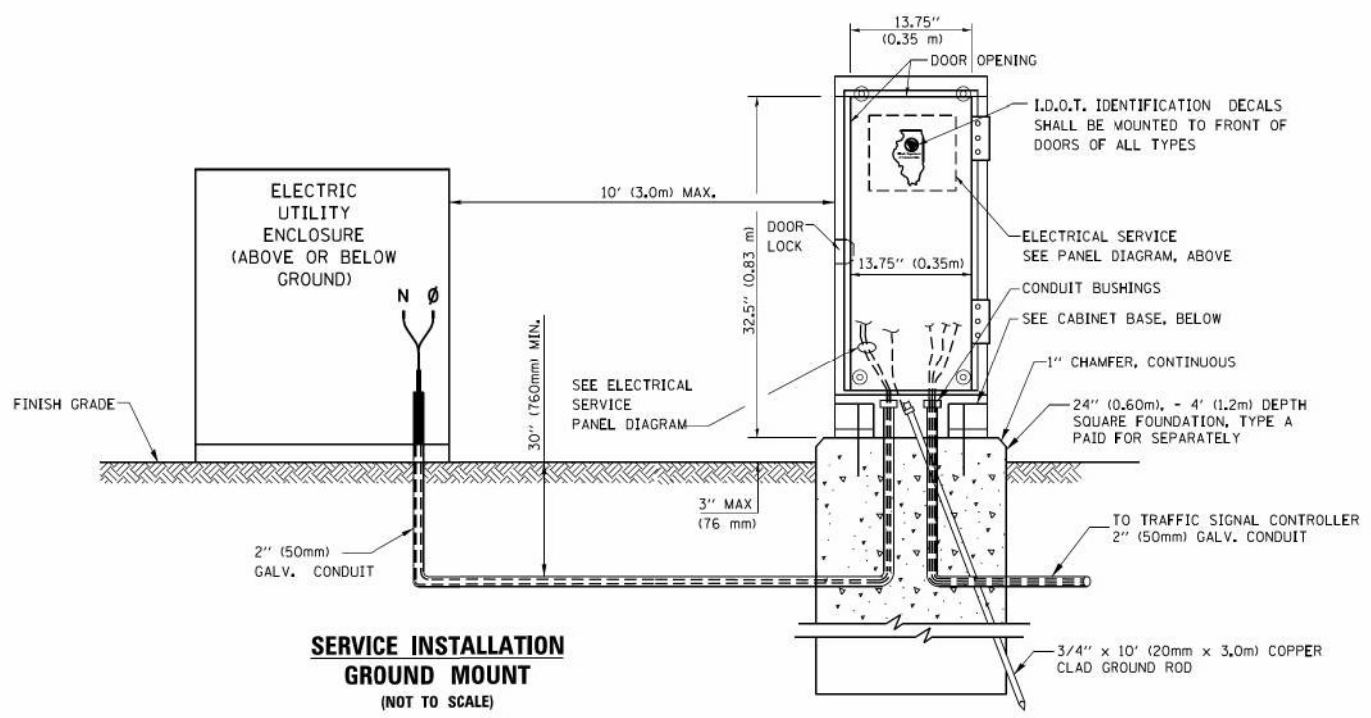
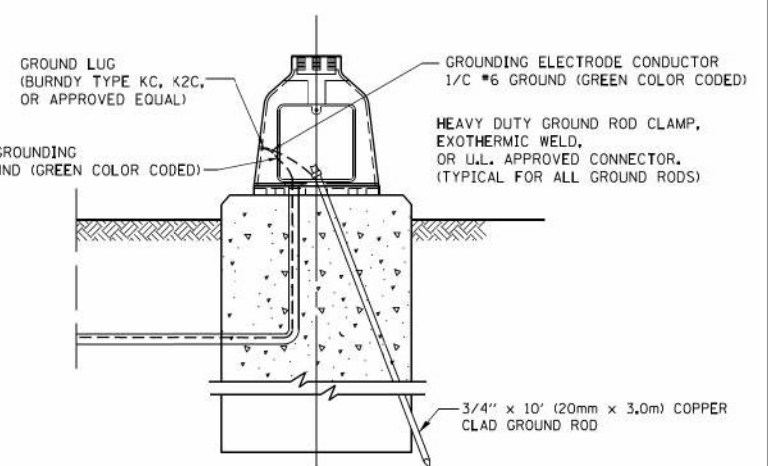
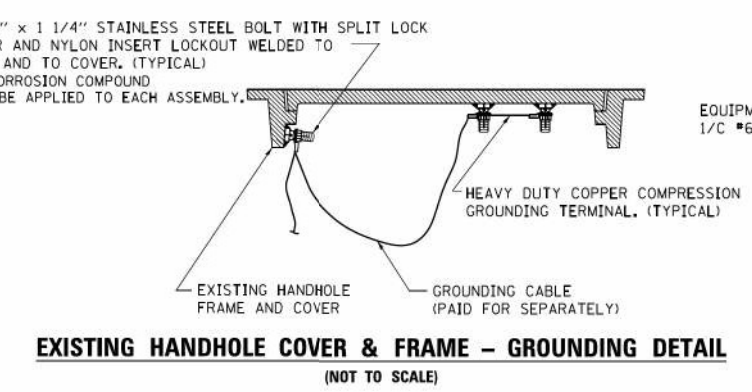
NOTES:
GROUNDING SYSTEM

- THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS, THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD, ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
- THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION, AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
- ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
- THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.

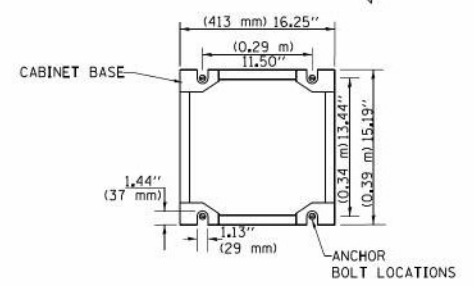


NOTES:

- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES. 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES. 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.

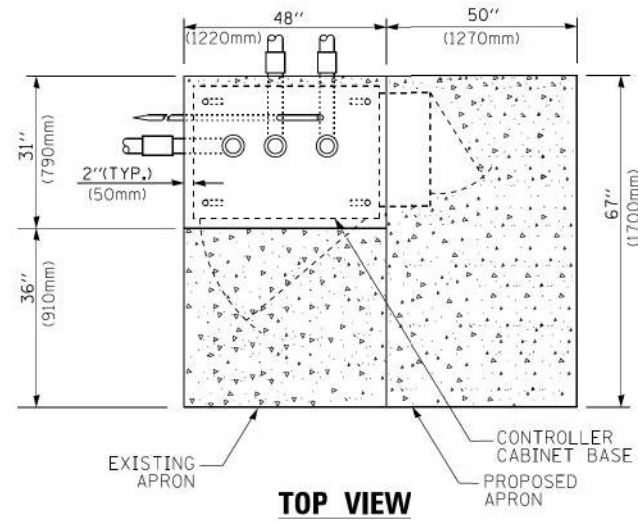


CABINET - BASE BOLT PATTERN
 (NOT TO SCALE)

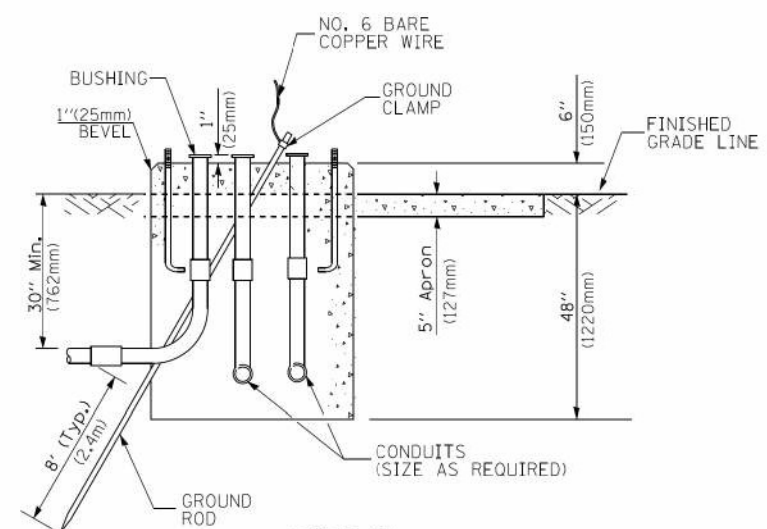


TS SHT NO. 4

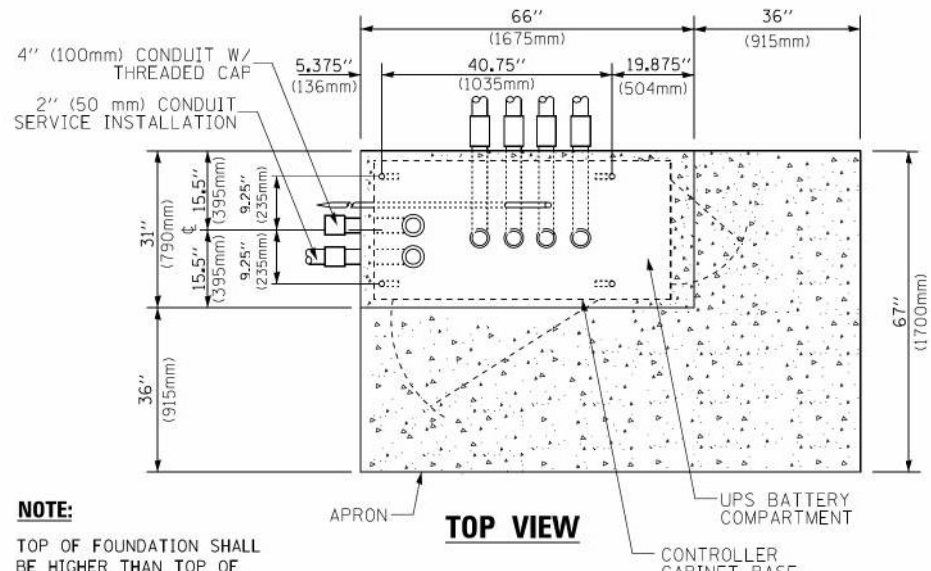
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PLOT SCALE = 50.0000' / 1"	CHECKED - DAD	DATE - 10-28-09	REVISIONS		SCALE: NONE	SHEET NO. 4 OF 7 SHEETS	STA. TO STA.	TS-05		CONTRACT NO. 62H16		
PLOT DATE = 1/13/2014					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							



TOP VIEW

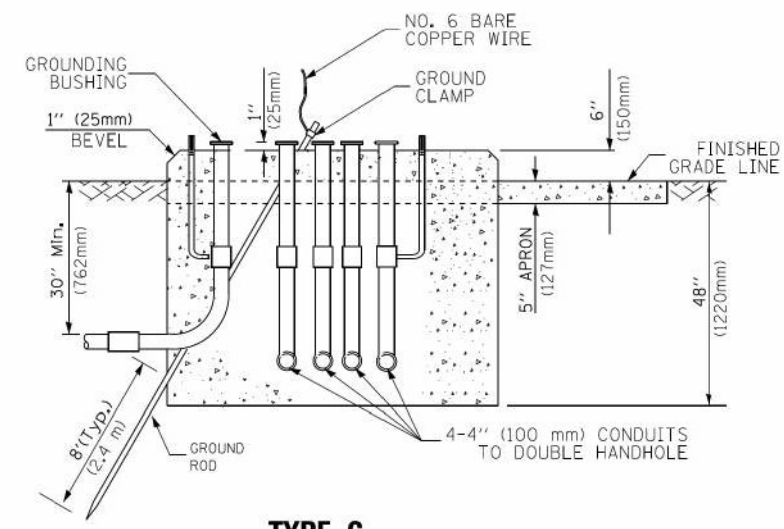


**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**

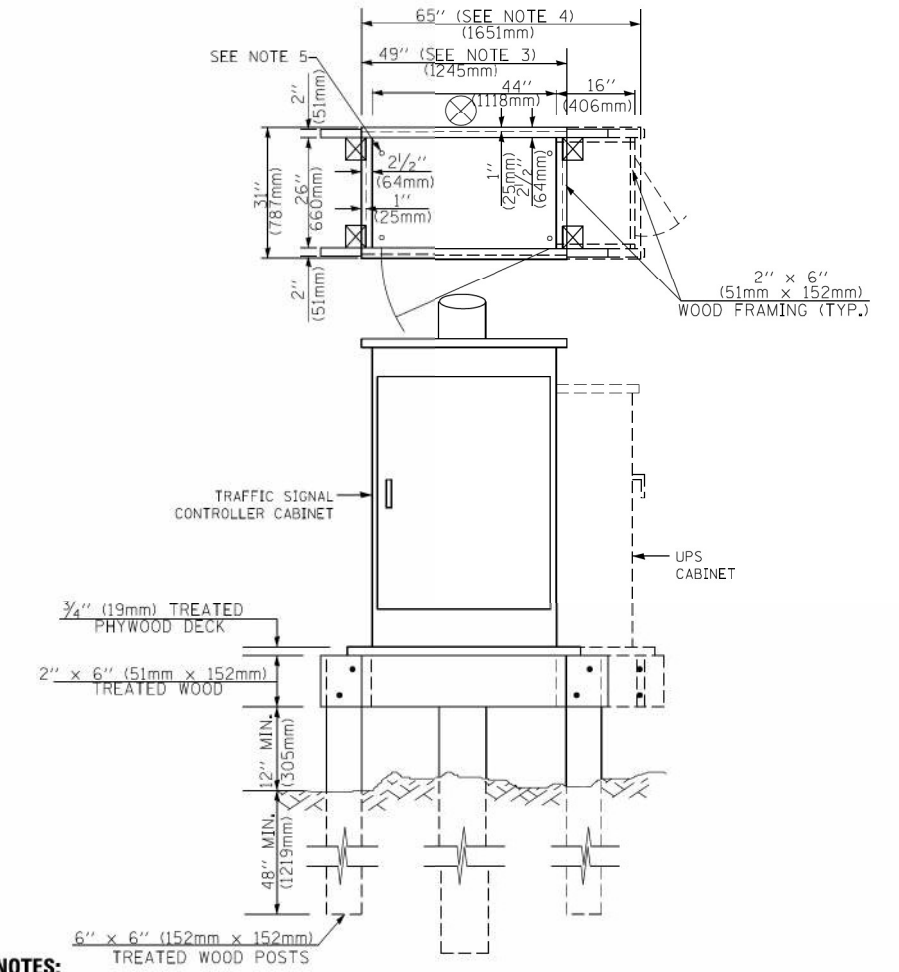


TOP VIEW

NOTE:
TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE



**TYPE C
FOR GROUND MOUNTED
SUPER P (TYPE IV) AND SUPER R (TYPE V)
CONTROLLER CABINETS**



NOTES:

1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

**TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM**

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

CABLE SLACK

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

DEPTH OF FOUNDATION

MAST ARM LENGTH	① FOUNDATION DEPTH	FOUNDATION DIAMETER	SPIRAL DIAMETER	QUANTITY OF REBARS	SIZE OF REBARS
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and less than 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and less than 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

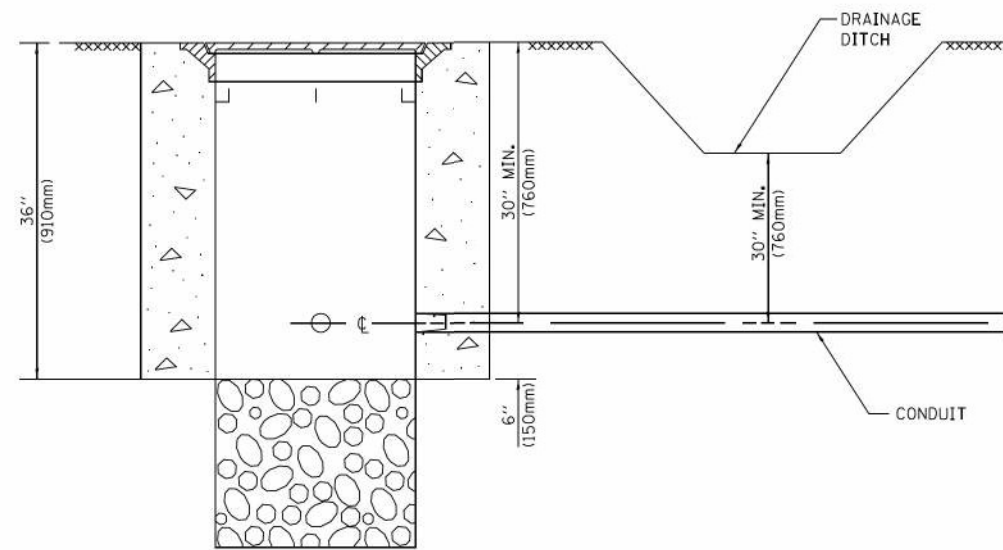
NOTES:

1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average unconfined compressive strength (qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
4. For mast arm assemblies with dual arms refer to state standard 878001..

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

TS SHT NO. 5

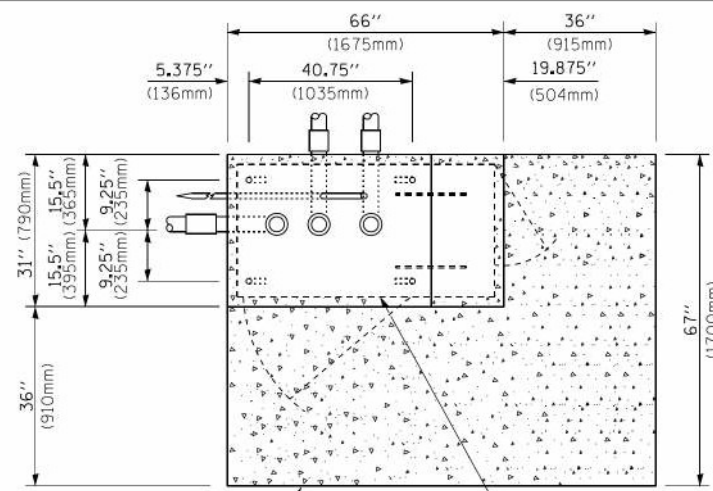
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PLOT SCALE = 50.0000' / in.	CHECKED - DAD	REVISOR -	SCALE: NONE			SHEET NO. 5 OF 7 SHEETS	STA. TO STA.	TS-05		CONTRACT NO. 62H16	
PLOT DATE = 1/13/2014	DATE = 10-28-09	REVISOR -				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					



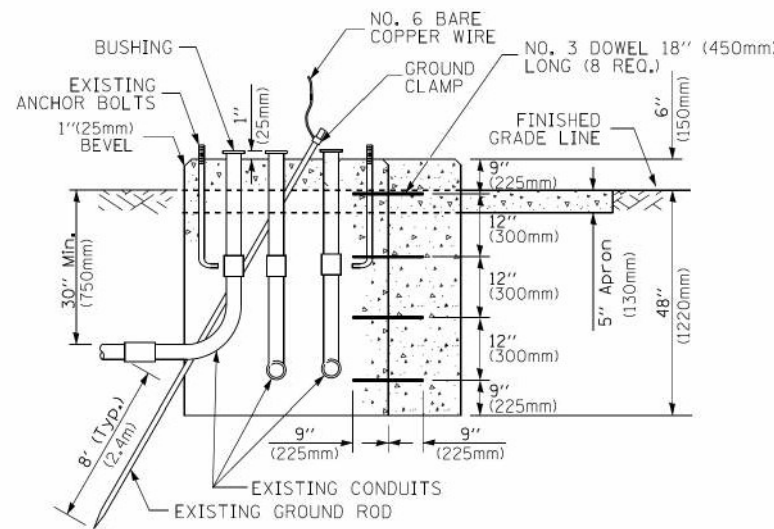
NOTES:

1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

HANDHOLE WITH MINIMUM CONDUIT DEPTH
(NOT TO SCALE)



TOP VIEW
(NOT TO SCALE)

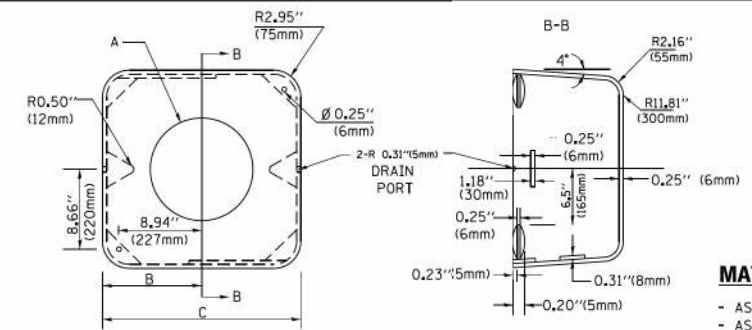


MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION
(NOT TO SCALE)

ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0,000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4" (19 mm) CLOSE NIPPLE
7	3/4" (19 mm) LOCKNUT
8	3/4" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4" (19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



MATERIAL:
- ASTM A36 STEEL
- ASTM A-123 HOT DIPPED GALVANIZED

A	B	C	HEIGHT	WEIGHT
VARIABLES	9.5" (241mm)	19" (483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIABLES	10.75" (273mm)	21.5" (546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIABLES	13.0" (330mm)	26" (660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIABLES	18.5" (470mm)	37" (940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

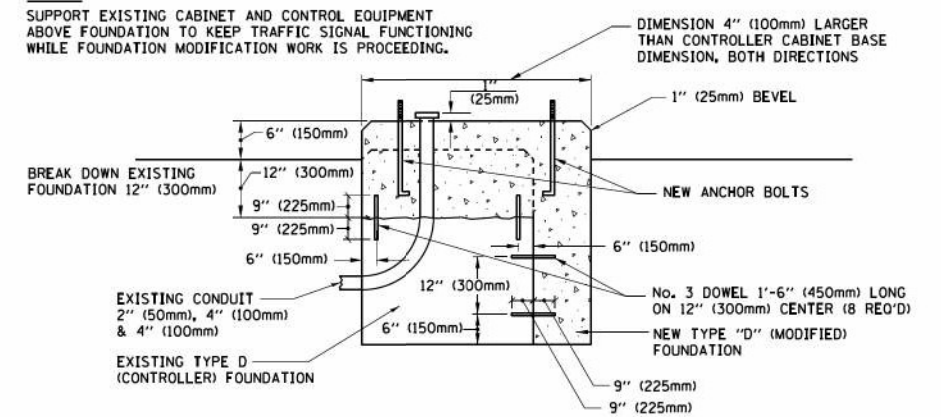
SHROUD

NOTES:

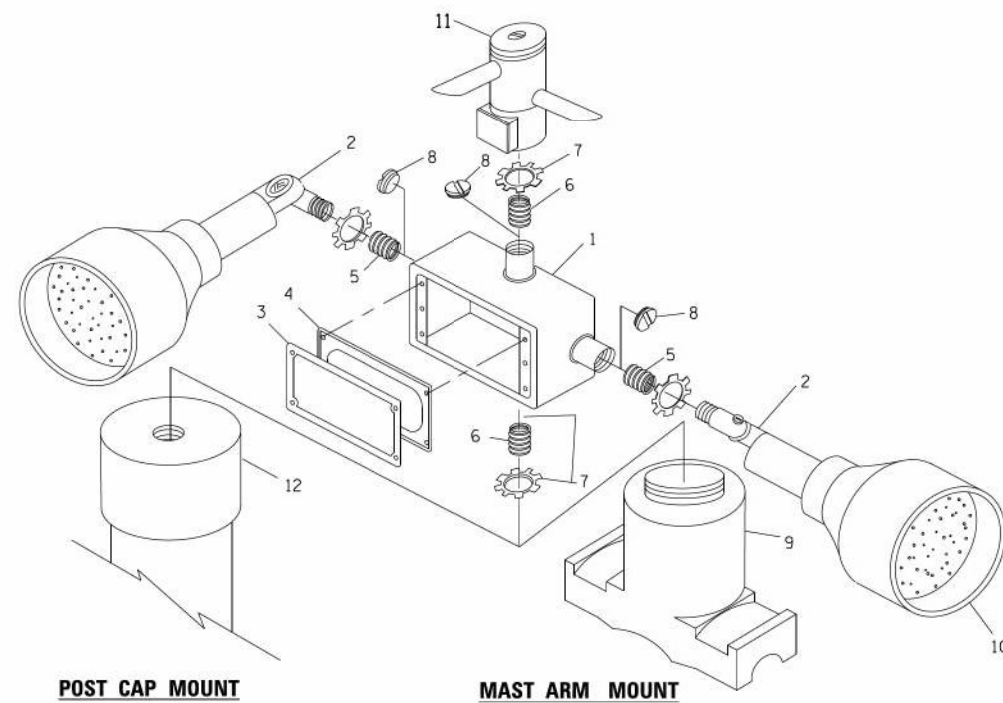
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

NOTE:

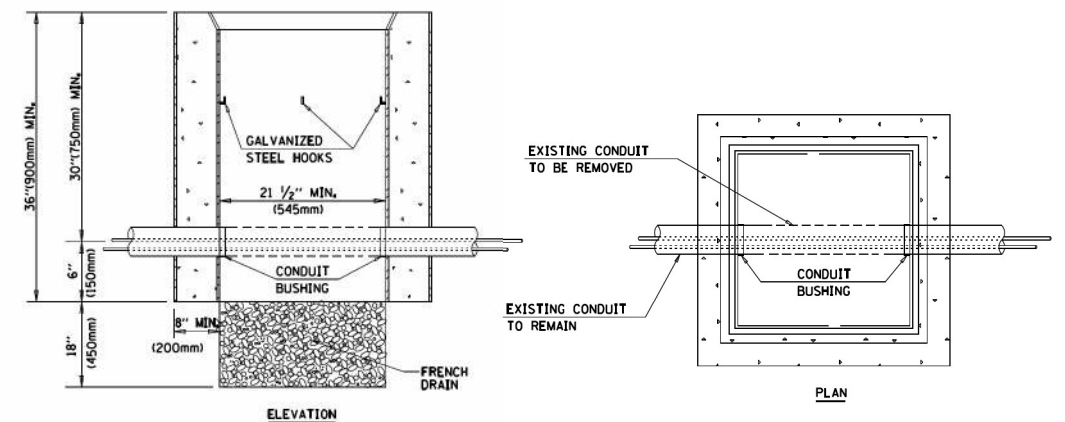
SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



MODIFY EXISTING TYPE "D" FOUNDATION



POST CAP MOUNT **MAST ARM MOUNT**
EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL



NOTES:

1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

TS SHT NO. 6

FILE NAME =	USER NAME = foatemj	DESIGNED - DAD	REVISED - DAG 1-1-14
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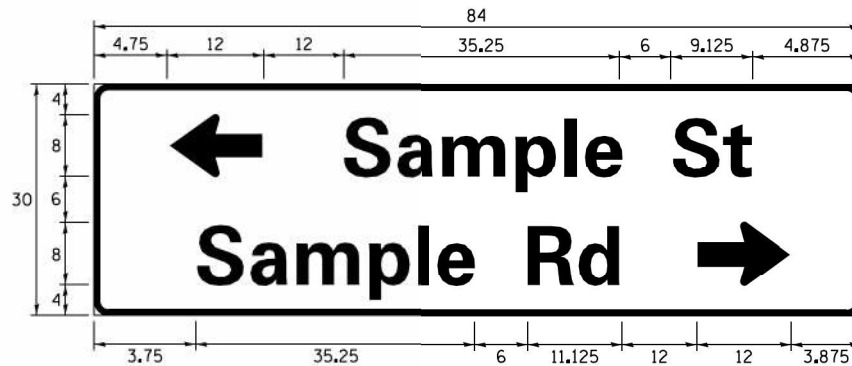
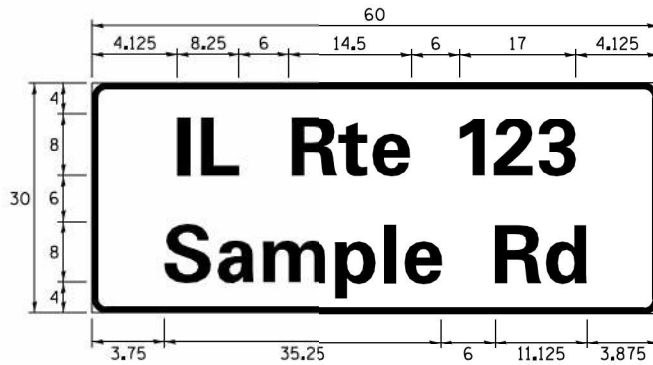
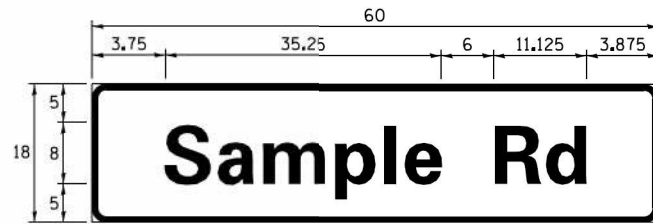
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE SHEET NO. 6 OF 7 SHEETS STA. TO STA.

F.A. RTE. 607	SECTION 2018-075-B-R	COUNTY WILL	TOTAL SHEETS 280	SHEET NO. 141
TS-05		CONTRACT NO. 62H16		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SIGN PANEL – TYPE 1 OR TYPE 2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D OR C	-	1 OR 2	ZZ	-

COMMON STREET NAME ABBREVIATIONS AND WIDTHS

NAME	ABBREVIATION	WIDTH (INCH)	
		SERIES "C"	SERIES "D"
AVENUE	Ave	15.000	18.250
BOULEVARD	Blvd	17.125	20.000
CIRCLE	Cir	11.125	13.000
COURT	Ct	8.250	9.625
DRIVE	Dr	8.625	10.125
HIGHWAY	Hwy	18.375	22.000
ILLINOIS	IL	7.000	8.250
LANE	Ln	9.125	10.750
PARKWAY	Pkwy	23.375	27.375
PLACE	Pl	7.125	7.750
ROAD	Rd	9.625	11.125
ROUTE	Rte	12.625	14.500
STREET	St	8.000	9.125
TERRACE	Ter	12.625	14.625
TRAIL	Tr	7.750	9.125
UNITED STATES	US	10.375	12.250

GENERAL NOTES

- WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
- ALL SIGNS SHALL CONSIST OF A WHITE LEGEND AND BORDER (TYPE ZZ SHEETING) ON A GREEN BACKGROUND (TYPE ZZ SHEETING)
- THE SIGN LENGTH SHALL BE IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHALL NOT EXCEED 8'-0". ALL BORDERS SHALL BE 3/4" WIDE. CORNER RADIUS SHALL BE 1-7/8". THE SPACING BETWEEN THE WORDS SHOULD BE 6", IF POSSIBLE, BUT MAY BE REDUCED TO 5" WHEN SPACING IS CRITICAL. A MINIMUM OF 2-1/2" SHALL BE INCLUDED BETWEEN THE WORD AND THE RIGHT AND LEFT EDGES OF THE SIGN.
- A PREFERRED METHOD FOR THE SIGN DESIGN IS TO USE SERIES "D" LETTER ON A ONE-LINE SIGN 18" IN HEIGHT AND A MAXIMUM OF 8'-0" IN WIDTH. IF SERIES "D" DOES NOT FIT ON A 8'-0" SIGN, THEN SERIES "C" SHOULD BE TRIED. IF SERIES "C" DOES NOT FIT ON A 8'-0" SIGN, A 30" HIGH TWO-LINE SIGN CAN BE USED. THE CROSSROAD DESIGNATION AS TO STREET, AVENUE, ETC. SHOULD BE SPELLED OUT ON THE SECOND LINE, IF THERE IS SPACE AVAILABLE.
- LED ILLUMINATED STREET NAME SIGNS CAN BE USED IN PLACE OF REGULAR SIGN PANELS BUT ANY SPECIAL WORDING AND SYMBOLOGY MUST BE APPROVED BY THE DEPARTMENT. GENERAL DESIGN REQUIREMENT AS LISTED ABOVE (COLOR, FONT, SIZE, ETC.) MUST BE FOLLOWED.
- SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS.

LOCAL SUPPLIERS:

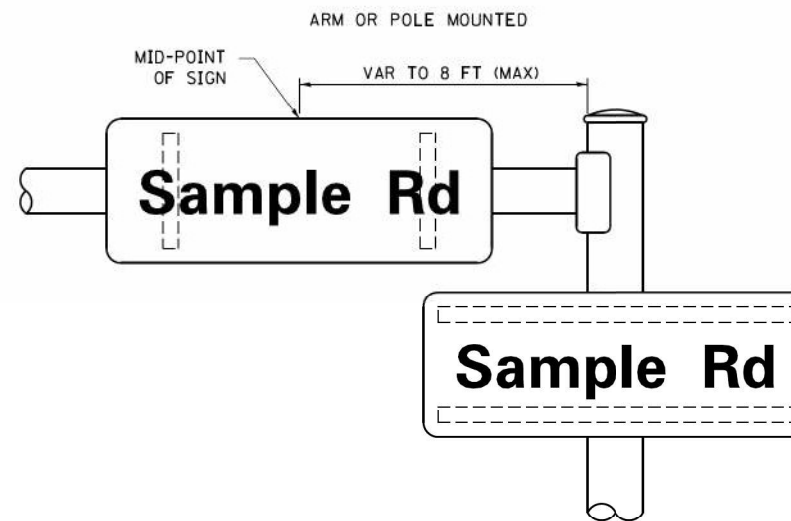
- J.O. HERBERT COMPANY, INC
MIDLOTHIAN, VA
- WESTERN REMAC, INC.
WOODRIDGE, IL

PARTS LISTING:

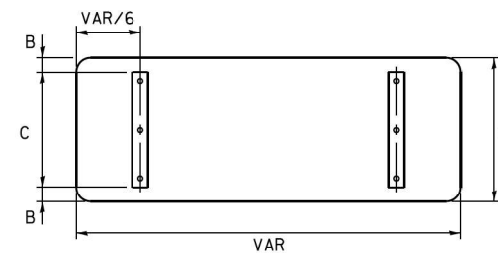
- SIGN CHANNEL PART #HPN053 (MED. CHANNEL)
SIGN SCREWS 1/4" x 14 x 1" H.W.H. #3
SELF TAPPING WITH NEOPRENE WASHER
PART #HPN034 (UNIVERSAL)
BRACKETS CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BACKET OF THE ABOVE PRODUCT.

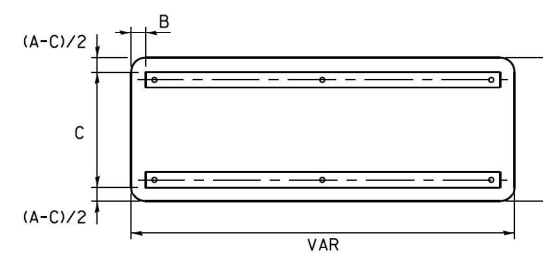
MOUNTING LOCATION



SUPPORTING CHANNELS



A	B	C
18"	2"	14"
30"	2"	24"



A	B	C
18"	2"	12"
30"	2"	22"

STANDARD ALPHABETS SPACING CHART

(8") UPPER CASE AND (6") LOWER CASE

FHWA SERIES "C"				FHWA SERIES "D"			
CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)	CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)
A	0.240	5.122	0.240	A	0.240	6.804	0.240
B	0.880	4.482	0.480	B	0.960	5.446	0.400
C	0.720	4.482	0.720	C	0.800	5.446	0.800
D	0.880	4.482	0.720	D	0.960	5.446	0.800
E	0.880	4.082	0.480	E	0.960	4.962	0.400
F	0.880	4.082	0.240	F	0.960	4.962	0.240
G	0.720	4.482	0.720	G	0.800	5.446	0.800
H	0.880	4.482	0.880	H	0.960	5.446	0.960
I	0.880	1.120	0.880	I	0.960	1.280	0.960
J	0.240	4.082	0.880	J	0.240	5.122	0.960
K	0.880	4.482	0.480	K	0.960	5.604	0.400
L	0.880	4.082	0.240	L	0.960	4.962	0.240
M	0.880	5.284	0.880	M	0.960	6.244	0.960
N	0.880	4.482	0.880	N	0.960	5.446	0.960
O	0.720	4.722	0.720	O	0.800	5.684	0.800
P	0.880	4.482	0.720	P	0.960	5.446	0.240
Q	0.720	4.722	0.720	Q	0.800	5.684	0.800
R	0.880	4.482	0.480	R	0.960	5.446	0.400
S	0.480	4.482	0.480	S	0.400	5.446	0.400
T	0.240	4.082	0.240	T	0.240	4.962	0.240
U	0.880	4.482	0.880	U	0.960	5.446	0.960
V	0.240	4.962	0.240	V	0.240	6.084	0.240
W	0.240	6.084	0.240	W	0.240	7.124	0.240
X	0.240	4.722	0.240	X	0.400	5.446	0.400
Y	0.240	5.122	0.240	Y	0.240	6.884	0.240
Z	0.480	4.482	0.480	Z	0.400	5.446	0.400
a	0.320	3.842	0.640	a	0.400	4.562	0.720
b	0.720	4.082	0.480	b	0.800	4.802	0.480
c	0.480	4.002	0.240	c	0.480	4.722	0.240
d	0.480	4.082	0.720	d	0.480	4.802	0.800
e	0.480	4.082	0.320	e	0.480	4.722	0.320
f	0.320	2.480	0.160	f	0.320	2.882	0.160
g	0.480	4.082	0.720	g	0.480	4.802	0.800
h	0.720	4.082	0.640	h	0.800	4.722	0.720
i	0.720	1.120	0.720	i	0.800	1.280	0.800
j	0.000	2.320	0.720	j	0.000	2.642	0.800
k	0.720	4.322	0.160	k	0.800	5.122	0.160
l	0.720	1.120	0.720	l	0.800	1.280	0.800
m	0.720	6.724	0.640	m	0.800	7.926	0.720
n	0.720	4.082	0.640	n	0.800	4.722	0.720
o	0.480	4.082	0.480	o	0.480	4.882	0.480
p	0.720	4.082	0.480	p	0.800	4.802	0.480
q	0.480	4.082	0.720	q	0.480	4.802	0.800
r	0.720	2.642	0.160	r	0.800	3.042	0.160
s	0.320	3.352	0.240	s	0.320	3.762	0.240
t	0.080	2.882	0.080	t	0.080	3.202	0.080
u	0.640	4.082	0.720	u	0.720	4.722	0.800
v	0.160	4.722	0.160	v	0.160	5.684	0.160
w	0.160	7.524	0.160	w	0.160	9.046	0.160
x	0.000	5.202	0.000	x	0.000	6.244	0.000
y	0.160	4.952	0.160	y	0.160	6.004	0.160
z	0.240	3.352	0.240	z	0.240	4.002	0.240
1	0.720	1.680	0.880	1	0.800	2.000	0.960
2	0.480	4.482	0.480	2	0.800	5.446	0.800
3	0.480	4.482	0.480	3	1.440	5.446	0.800
4	0.240	4.952	0.720	4	0.160	6.004	0.960
5	0.480	4.482	0.480	5	0.800	5.446	0.800
6	0.720	4.482	0.720	6	0.800	5.446	0.800
7	0.240	4.482	0.720	7	0.560	5.446	0.560
8	0.480	4.482	0.480	8	0.800	5.446	0.800
9	0.480	4.482	0.480	9	0.800	5.446	0.800
o	0.720	4.722	0.720	o	0.800	5.684	0.800
-	0.240	2.802	0.240	-	0.240	2.802	0.240

TS SHT NO. 7

FILE NAME =	USER NAME = poc1eche1	DESIGNED - LP/IP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default	Plot Scale = 50,0000 / in.	DRAWN - LP	REVISED -			TS-02	CONTRACT NO.			
	Plot Date = 9/22/2014	CHECKED - IP	REVISED -			ILLINOIS FED. AID PROJECT				
		DATE - 10/01/2014	REVISED -			SCALE:	SHEET 1 OF 1 SHEETS	STA. TO STA.	280	142

SUMMARY OF TRAFFIC SIGNAL QUANTITIES

ITEM	UNIT	QUANTITY	US 52 AND I 55 SB RAMPS	US 52 AND I 55 NB RAMPS	US 52 AND FRONTAGE RD	INTERCONNECT
SIGN PANEL - TYPE 1	SQ FT	30	15	15		
SIGN PANEL - TYPE 2	SQ FT	74.5	13.75	13.75	47	
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	3130	629	645	736	1120
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	640	224	253	163	
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	1219	423	384	412	
HANDHOLE	EACH	14	3	3	5	3
HEAVY-DUTY HANDHOLE	EACH	4	1	1	2	
DOUBLE HANDHOLE	EACH	5	2	2	1	
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1				1
TRANSCEIVER - FIBER OPTIC	EACH	3	1	1	1	
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	3790				3790
* ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1730	555	600	575	
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	6840	2280	2800	1760	
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2085	135	195	1755	
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	5365	1960	1550	1855	
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	375	70	95	210	
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	2265	735	730	800	
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	8	2	2	4	
STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	2	1	1		
STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1		1		
STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1	1			
STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	2	1	1		
STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	2			2	
STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	1	1			
STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	2		1	1	
STEEL MAST ARM ASSEMBLY AND POLE, 52 FT.	EACH	1			1	
CONCRETE FOUNDATION, TYPE A	FOOT	44	12	12	20	
CONCRETE FOUNDATION, TYPE C	FOOT	12	4	4	4	
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	80.5	33.5	33.5	13.5	
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	67	13	13	41	
DRILL EXISTING HANDHOLE	EACH	1				1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	26	10	10	6	
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	12	5	5	2	
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	2	1	1		
SIGNAL HEAD, LED, 1 FACE, 5-SECTION, BRACKET MOUNTED	EACH	4			4	
SIGNAL HEAD, LED, 1 FACE, 5-SECTION, MAST ARM MOUNTED	EACH	4			4	
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	30	10	10	10	
INDUCTIVE LOOP DETECTOR	EACH	19	7	6	6	
DETECTOR LOOP, TYPE I	FOOT	1260	580	355	325	
* LIGHT DETECTOR	EACH	9	3	3	3	
* LIGHT DETECTOR AMPLIFIER	EACH	3	1	1	1	
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	3	1	1	1	
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2590				2590
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	3	1	1	1	
REMOVE EXISTING HANDHOLE	EACH	26	8	8	10	
REMOVE EXISTING DOUBLE HANDHOLE	EACH	3	1	1	1	
REMOVE EXISTING CONCRETE FOUNDATION	EACH	25	8	8	9	
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	1730	555	600	575	
ROD AND CLEAN EXISTING CONDUIT	FOOT	1100				1100
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	2	1	1		
FULL-ACTUATED CONTROLLER AND TYPE SUPER R CABINET (SPECIAL)	EACH	1			1	
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	3	1	1	1	
RADAR VEHICLE DETECTION SYSTEM, SINGLE APPROACH, STOP BAR AND FAR BACK	EACH	2	1	1		
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	2			2	
REMOVE EXISTING JUNCTION BOX	EACH	1		1		
MASTER CONTROLLER (SPECIAL)	EACH	1				1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	3	1	1	1	
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	3790				3790
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	3				3
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	3	1	1	1	

* 100% COST TO VILLAGE OF SHOREWOOD

TS SHT NO. 8



USER NAME = mde@tche	DESIGNED - TM	REVISED -
	DRAWN - TM	REVISED -
PLOT SCALE = 40,0000' / in.	CHECKED - AS	REVISED -
PLOT DATE = 3/11/2022	DATE - 02-28-22	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
607	2018-075-B-R	WILL	280	143
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H16	

REMOVAL AND RELOCATION NOTES:

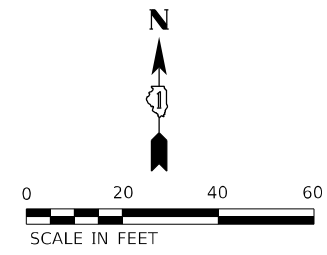
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 2 EACH STEEL MAST ARM ASSEMBLY AND POST
- 5 EACH TRAFFIC SIGNAL POST
- 9 EACH 3-SECTION SIGNAL HEAD
- 2 EACH 5-SECTION SIGNAL HEAD
- 1 EACH SERVICE INSTALLATION
- 4 EACH TRAFFIC SIGNAL BACKPLATE
- 1 EACH UPS (UNINTERRUPTABLE POWER SUPPLY)

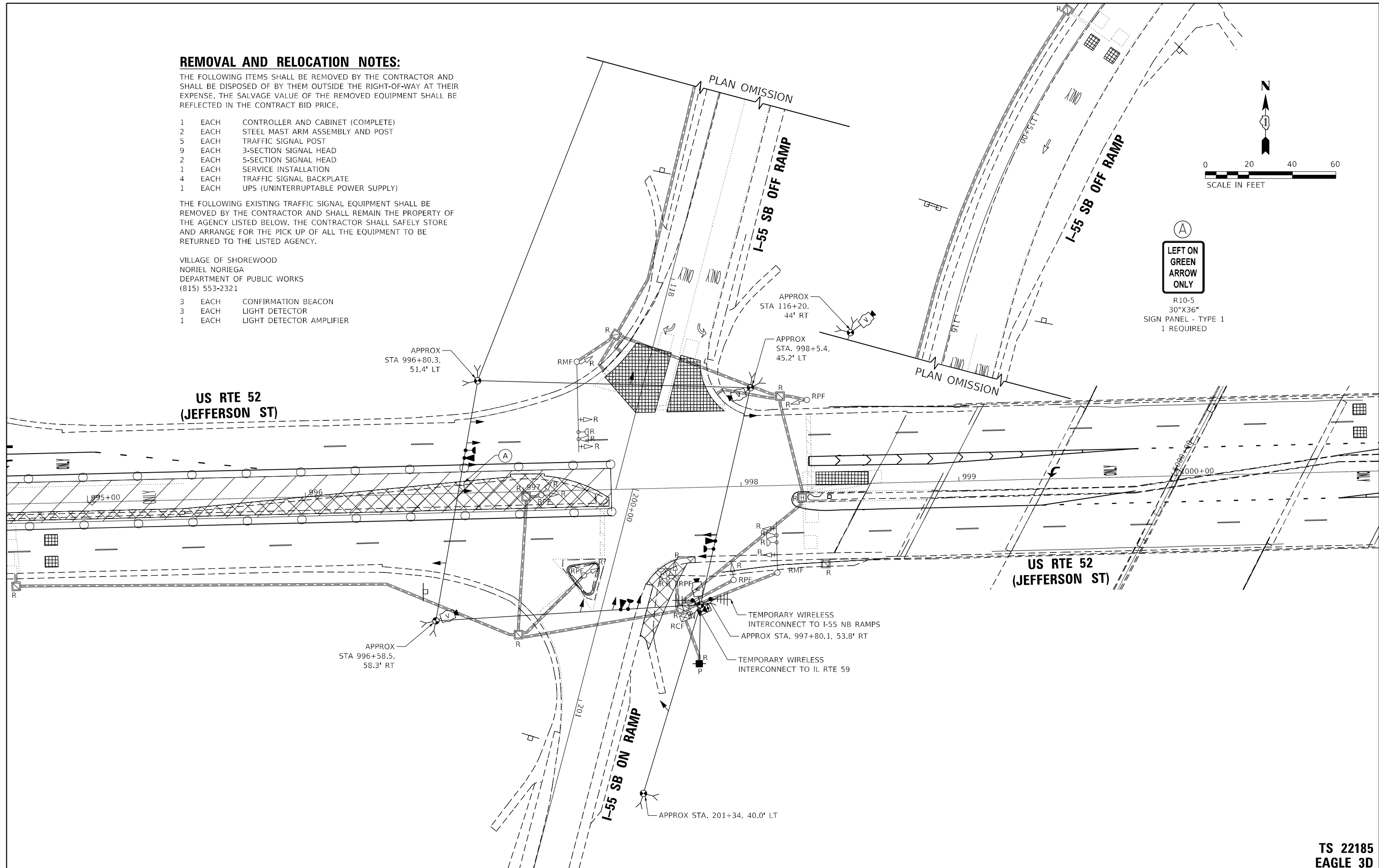
THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR THE PICK UP OF ALL THE EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY.

VILLAGE OF SHOREWOOD
 NORIEL NORIEGA
 DEPARTMENT OF PUBLIC WORKS
 (815) 553-2321

- 3 EACH CONFIRMATION BEACON
- 3 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER



(A)
LEFT ON GREEN ARROW ONLY
 R10-5
 30"x36"
 SIGN PANEL - TYPE 1
 1 REQUIRED



TS SHT NO. 9

**TS 22185
 EAGLE 3D**

AMES Engineering, Inc.
 CONSULTING ENGINEERS
 6330 Belmont Road, Suite 4B
 Downers Grove, IL 60516

USER NAME = mde@che	DESIGNED - TM	REVISED -
PLOT SCALE = 40,0000' / in.	DRAWN - TM	REVISED -
PLOT DATE = 3/11/2022	CHECKED - AS	REVISED -
	DATE - 02-28-22	REVISED -

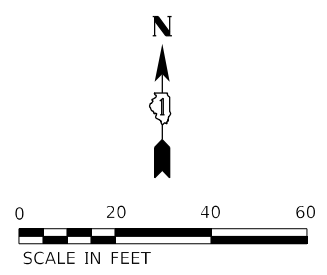
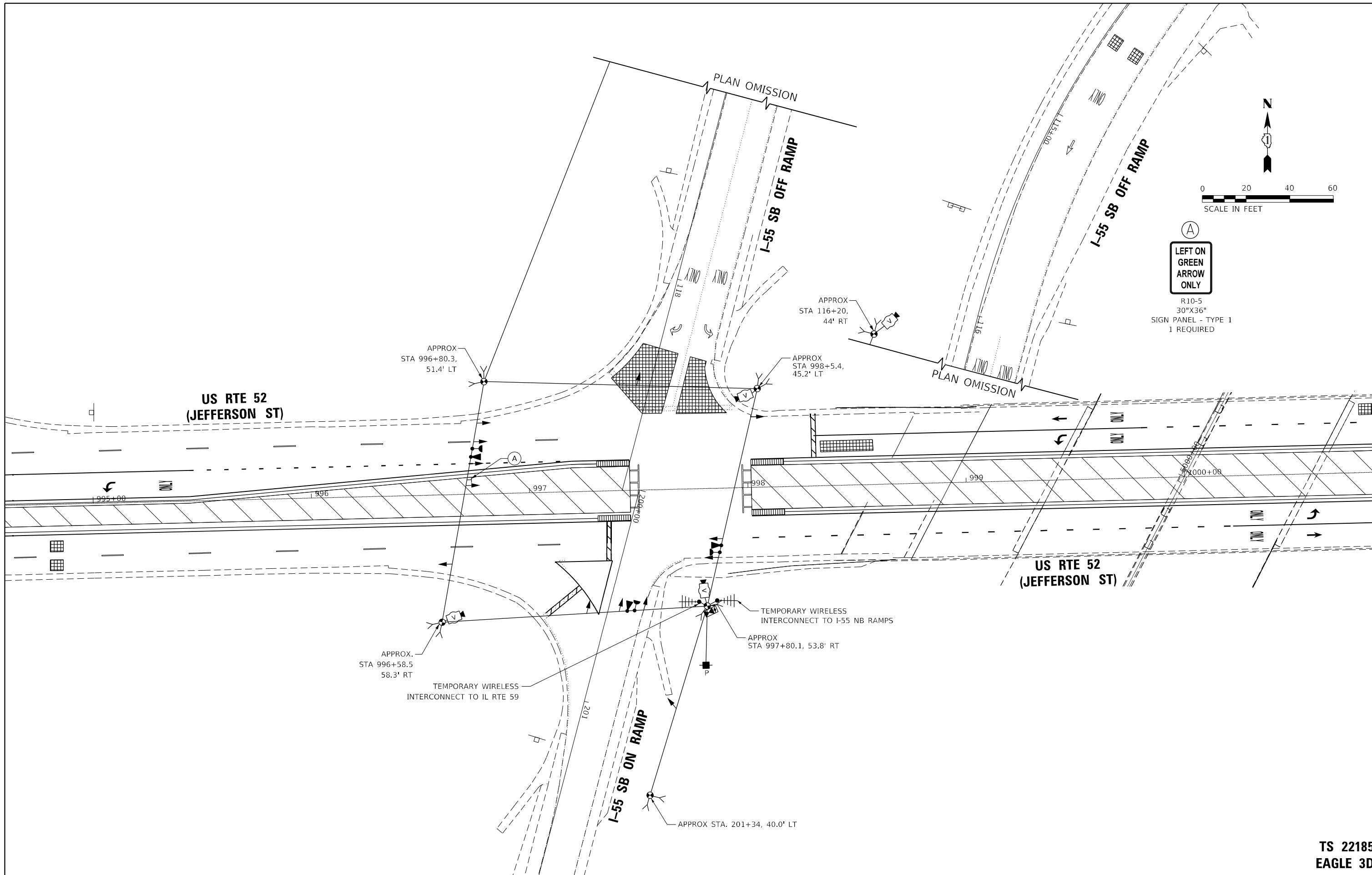
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PRESTAGE TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND
 REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
 US RTE 52 (JEFFERSON ST) AND I-55 SB RAMPS**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
607	2018-075-B-R	WILL	280	144
CONTRACT NO. 62H16				
ILLINOIS FED. AID PROJECT				

SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

TS SHT NO. 10



(A)
LEFT ON GREEN ARROW ONLY
 R10-5
 30"x36"
 SIGN PANEL - TYPE 1
 1 REQUIRED

AMES Engineering, Inc.
 CONSULTING ENGINEERS
 6330 Belmont Road, Suite 4B
 Downers Grove, IL 60516

USER NAME = mde@tche	DESIGNED - TM	REVISED -
DRAWN - TM	REVISOR -	
PLOT SCALE = 40,0000' / in.	CHECKED - AS	REVISOR -
PLOT DATE = 3/11/2022	DATE - 02-28-22	REVISOR -

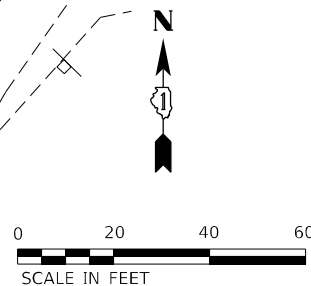
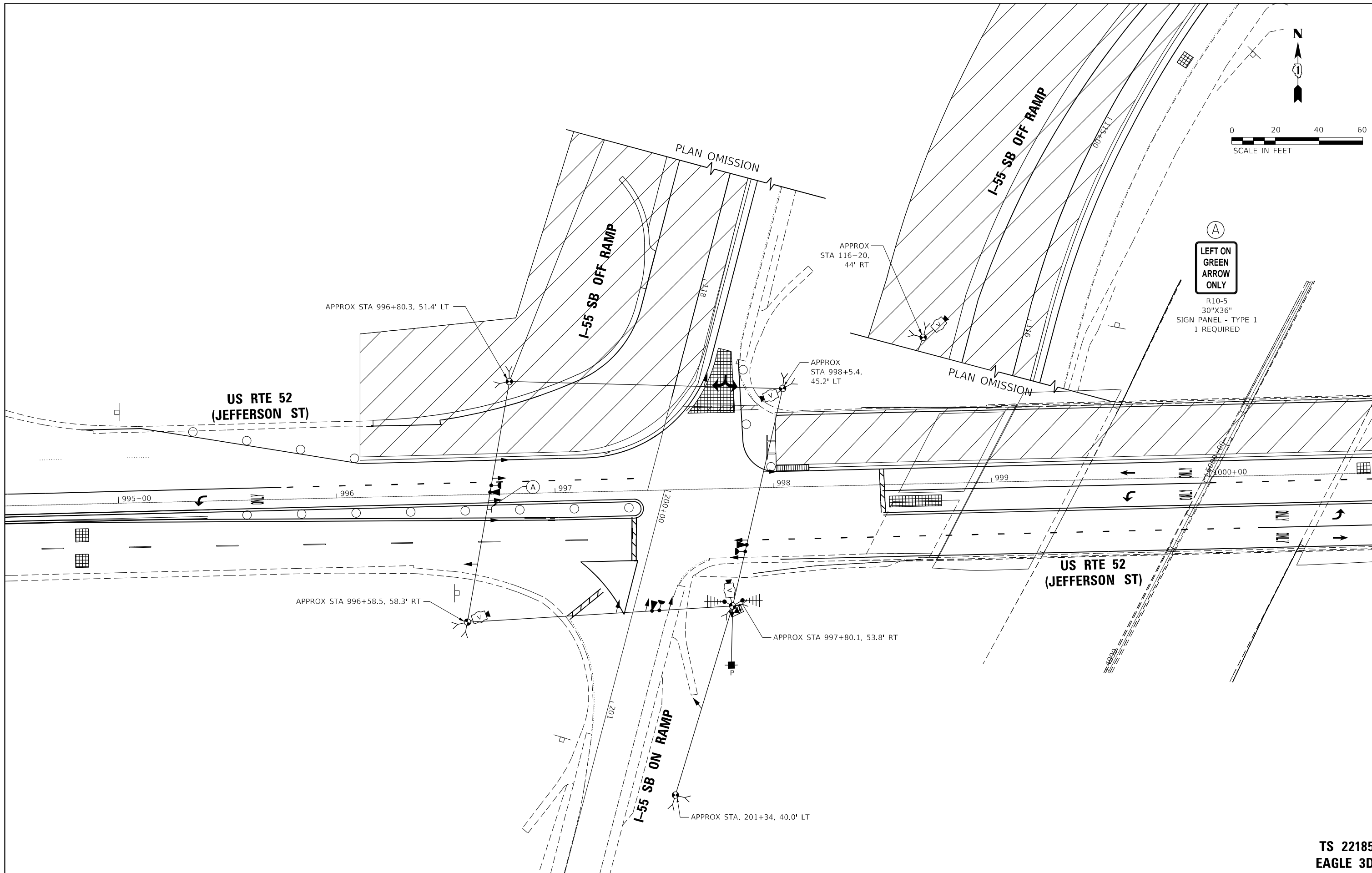
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**STAGE 1 TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
 US RTE 52 (JEFFERSON ST) AND I-55 SB RAMP**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
607	2018-075-B-R	WILL	280	145
CONTRACT NO. 62H16				
ILLINOIS FED. AID PROJECT				

**TS 22185
 EAGLE 3D**

TS SHT NO. 11



(A)
LEFT ON GREEN ARROW ONLY
 R10-5
 30"x36"
 SIGN PANEL - TYPE 1
 1 REQUIRED

AMES Engineering, Inc.
 CONSULTING ENGINEERS
 6330 Belmont Road, Suite 4B
 Downers Grove, IL 60516

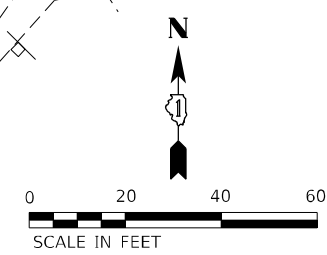
USER NAME = mde@che	DESIGNED - TM	REVISED -
DRAWN - TM	REVISOR -	
PLOT SCALE = 40,0000' / in.	CHECKED - AS	REVISOR -
PLOT DATE = 3/11/2022	DATE - 02-28-22	REVISOR -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

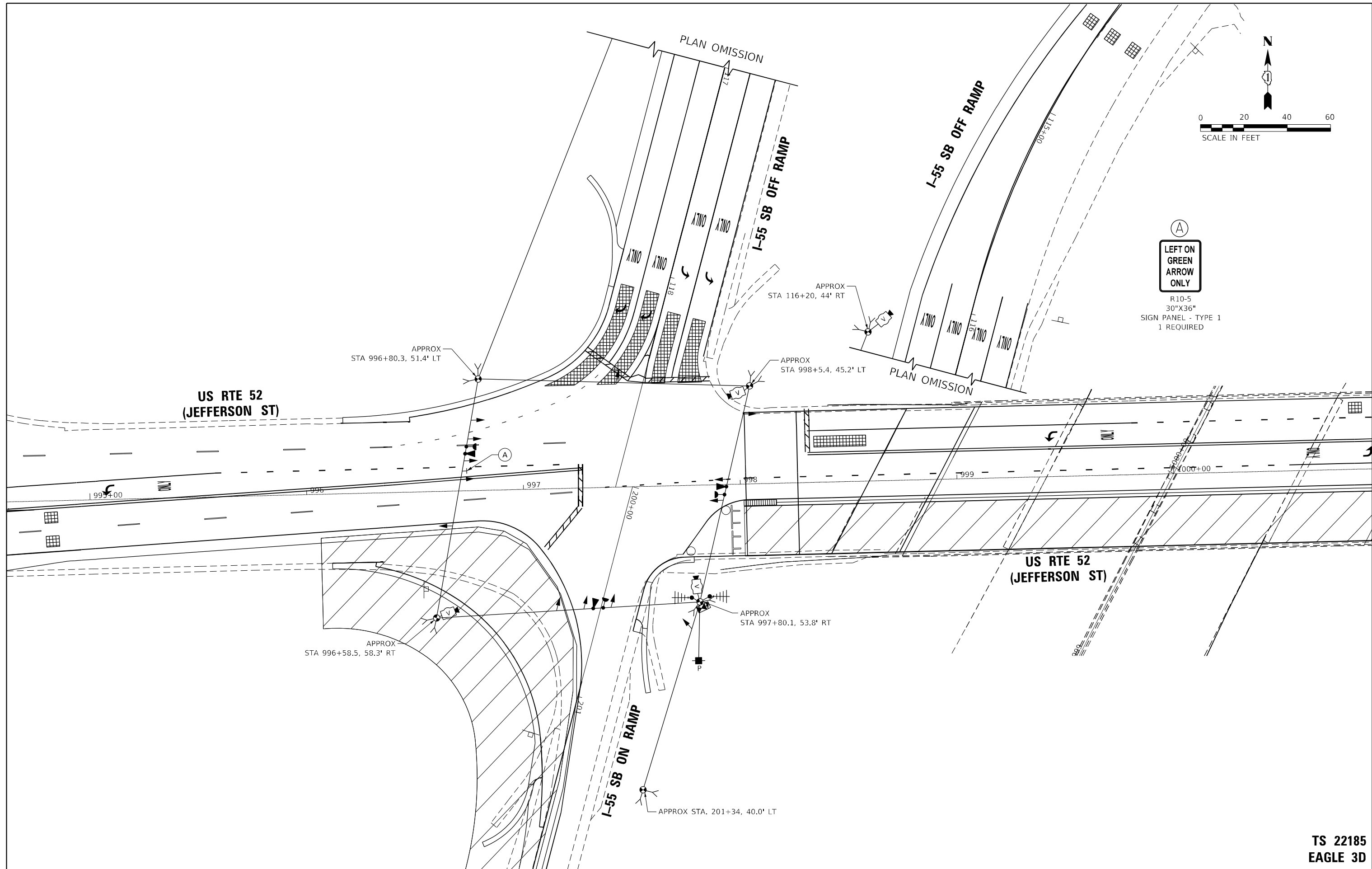
**STAGES 2A, 2B & 2C TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
 US RTE 52 (JEFFERSON ST) AND I-55 SB RAMPS**
 SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 607	SECTION 2018-075-B-R	COUNTY WILL	TOTAL SHEETS 280	SHEET NO. 146
			CONTRACT NO. 62H16	
ILLINOIS FED. AID PROJECT				

**TS 22185
 EAGLE 3D**



(A)
LEFT ON GREEN ARROW ONLY
 R10-5
 30"X36"
 SIGN PANEL - TYPE 1
 1 REQUIRED



TS SHT NO. 12

**TS 22185
 EAGLE 3D**

AMES Engineering, Inc.
 CONSULTING ENGINEERS
 6330 Belmont Road, Suite 4B
 Downers Grove, IL 60516

USER NAME = mde@tche	DESIGNED - TM	REVISED -
DRAWN - TM	REVISOR -	
PLOT SCALE = 40,0000' / in.	CHECKED - AS	REVISOR -
PLOT DATE = 3/11/2022	DATE - 02-28-22	REVISOR -

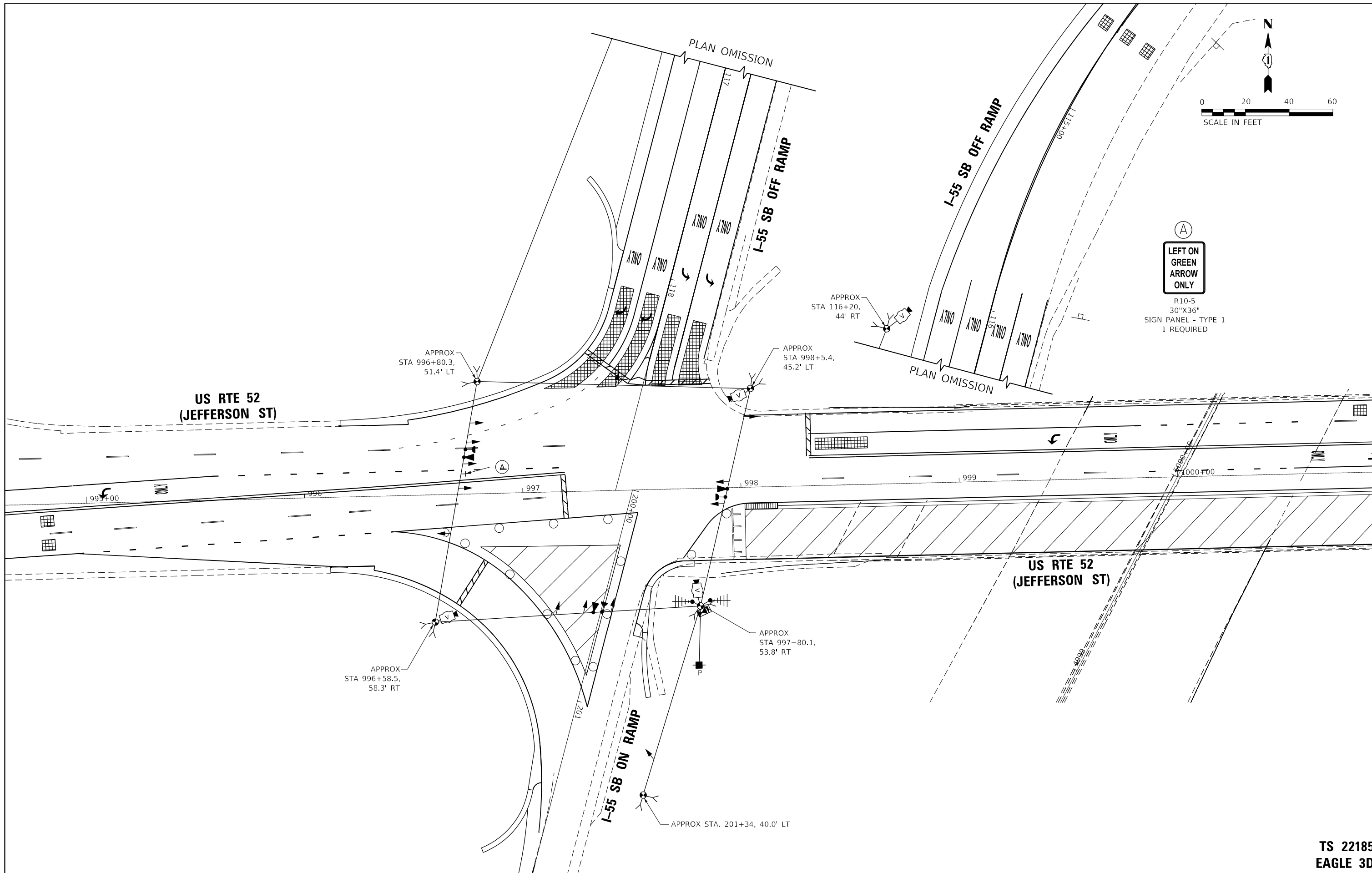
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**STAGE 3A TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
 US RTE 52 (JEFFERSON ST) AND I-55 SB RAMPS**

SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 607	SECTION 2018-075-B-R	COUNTY WILL	TOTAL SHEETS 280	SHEET NO. 147
CONTRACT NO. 62H16				
ILLINOIS FED. AID PROJECT				

TS SHT NO. 13



AMES Engineering, Inc.
 CONSULTING ENGINEERS
 6330 Belmont Road, Suite 4B
 Downers Grove, IL 60516

USER NAME = mde@tche	DESIGNED - TM	REVISED -
DRAWN - TM	REVISED -	
PLOT SCALE = 40,0000' / in.	CHECKED - AS	REVISED -
PLOT DATE = 3/11/2022	DATE - 02-28-22	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

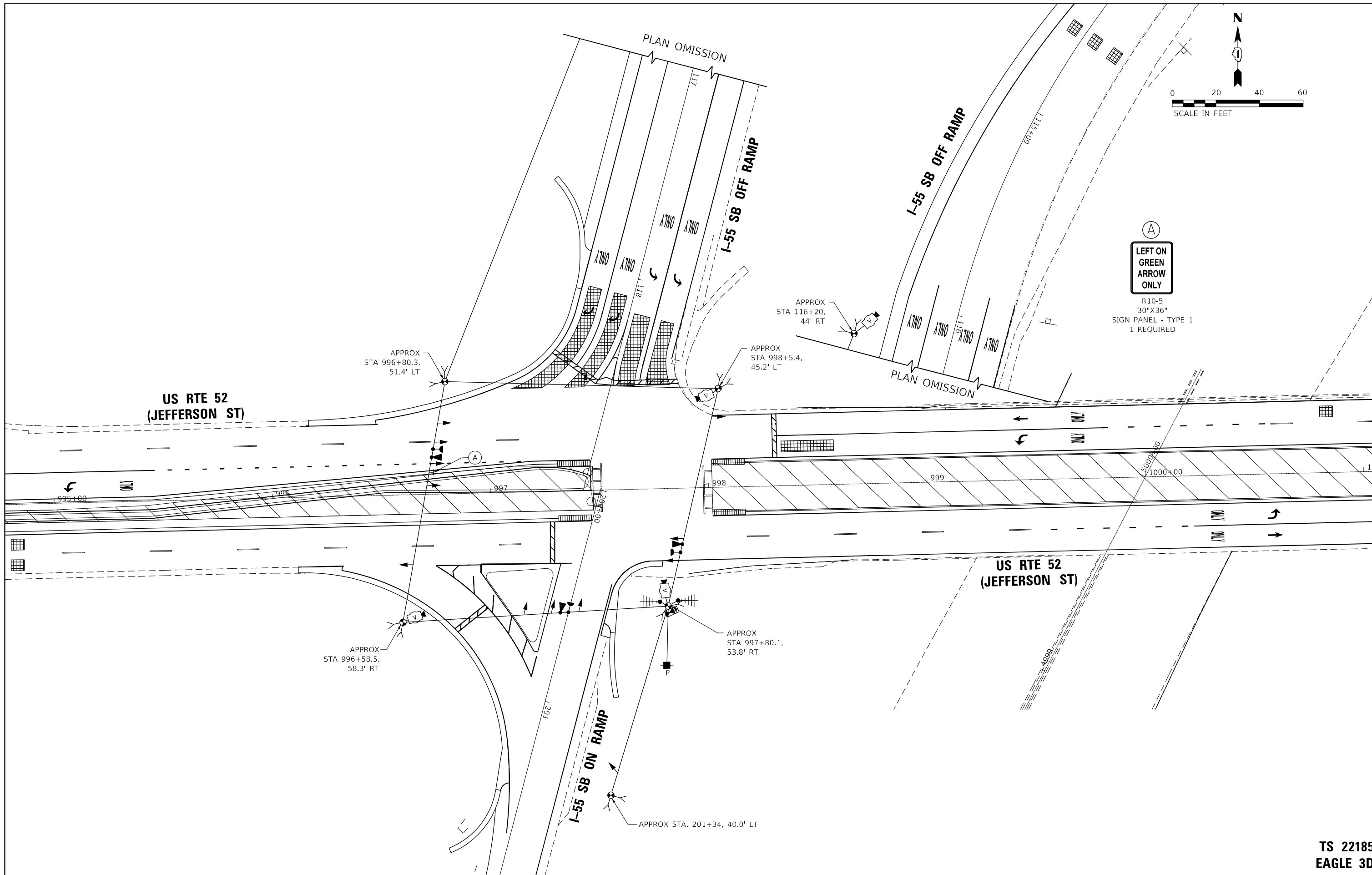
**STAGES 3B & 3C TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
 US RTE 52 (JEFFERSON ST) AND I-55 SB RAMPS**

SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
607	2018-075-B-R	WILL	280	148
CONTRACT NO. 62H16				
ILLINOIS FED. AID PROJECT				

**TS 22185
 EAGLE 3D**

TS SHT NO. 14



A
LEFT ON GREEN ARROW ONLY
 R10-5
 30"x36"
 SIGN PANEL - TYPE 1
 1 REQUIRED

AMES Engineering, Inc.
 CONSULTING ENGINEERS
 6330 Belmont Road, Suite 4B
 Downers Grove, IL 60516

USER NAME = mde@tche	DESIGNED - TM	REVISED -
DRAWN - TM	REVISED -	
PLOT SCALE = 40,0000' / in.	CHECKED - AS	REVISED -
PLOT DATE = 3/11/2022	DATE - 02-28-22	REVISED -

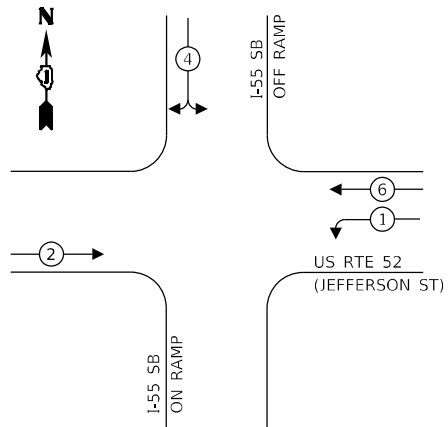
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 4 TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
US RTE 52 (JEFFERSON ST) AND I-55 SB RAMPS

F.A.P. RTE. 607	SECTION 2018-075-B-R	COUNTY WILL	TOTAL SHEETS 280	SHEET NO. 149
				CONTRACT NO. 62H16
ILLINOIS FED. AID PROJECT				

TS 22185
EAGLE 3D

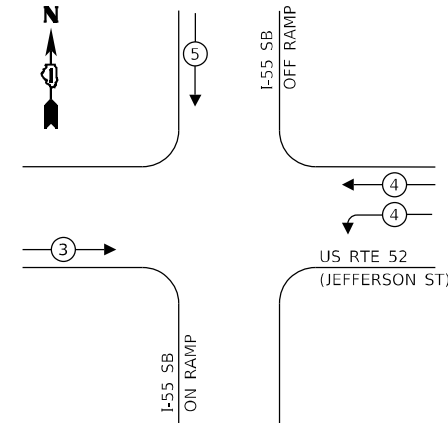
TEMPORARY CONTROLLER SEQUENCE



LEGEND:

- ← (⊙) ← PROTECTED PHASE
- ← (⊙) ← PROTECTED/PERMITTED PHASE
- ← (⊙) ← PEDESTRIAN PHASE
- ← (⊙) ← OL OVERLAP

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



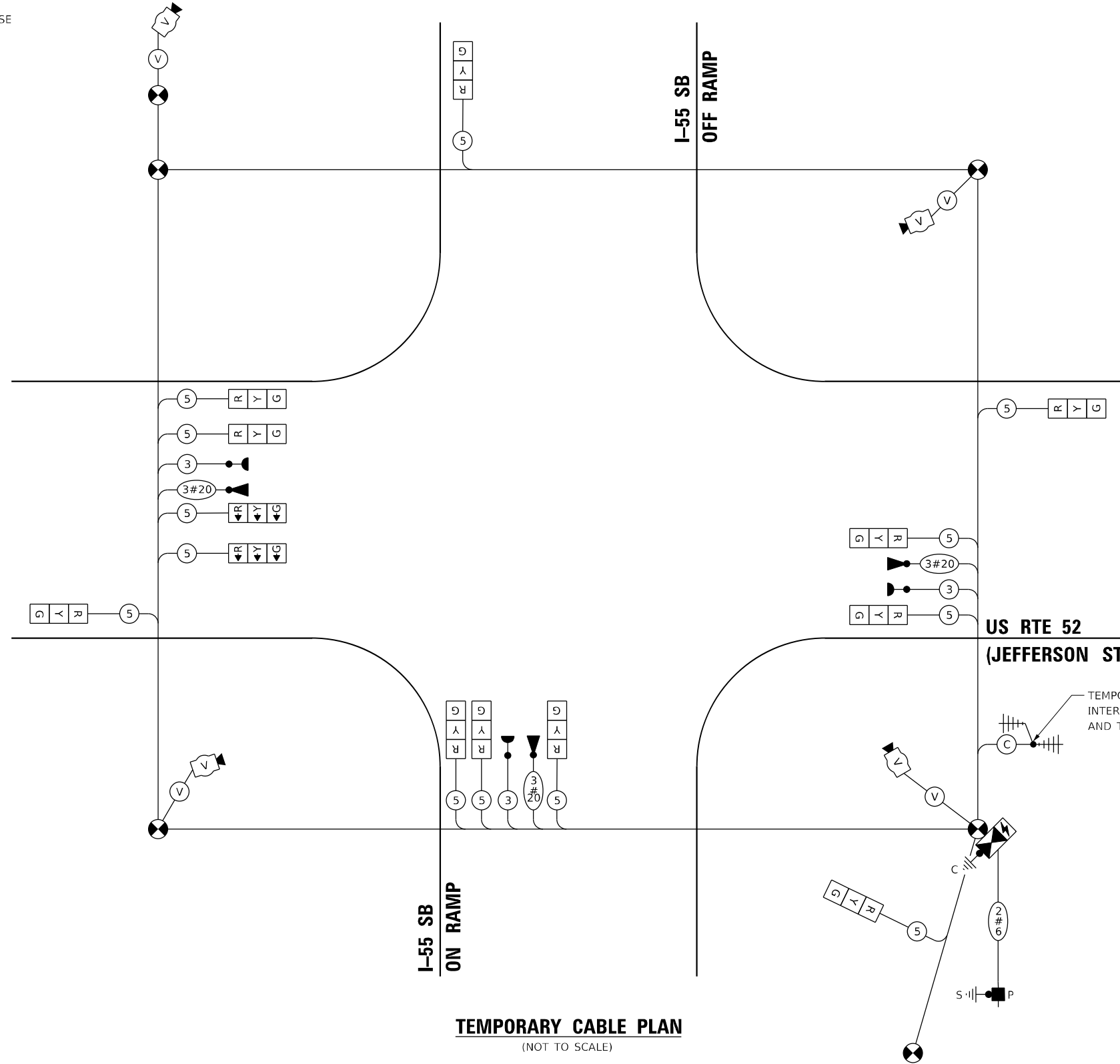
TEMPORARY TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	13	11	50	71.5
(YELLOW)	13	20	5	13.0
(GREEN)	13	12	45	70.2
PERMISSIVE ARROW	-	10	10	0.00
PED. SIGNAL	-	20	100	0.00
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				429.7

ENERGY COSTS TO:

VILLAGE OF SHOREWOOD
ONE TOWNE CENTER BLVD.
SHOREWOOD, IL 60404

ENERGY SUPPLY: CONTACT: CHRISTY GOOSSENS
PHONE: (815) 724-5982
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: 58380-73023



TS SHT NO. 15

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = mdelicche	DESIGNED - TM	REVISED -
PLOT SCALE = 40,0000 ' / in.	DRAWN - TM	REVISED -
PLOT DATE = 3/11/2022	CHECKED - AS	REVISED -
	DATE - 02-28-22	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALL STAGES TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION
DIAGRAM, AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
US RTE 52 (JEFFERSON ST) AND I-55 SB RAMPS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
607	2018-075-B-R	WILL	280	150
			CONTRACT NO. 62H16	
ILLINOIS FED. AID PROJECT				

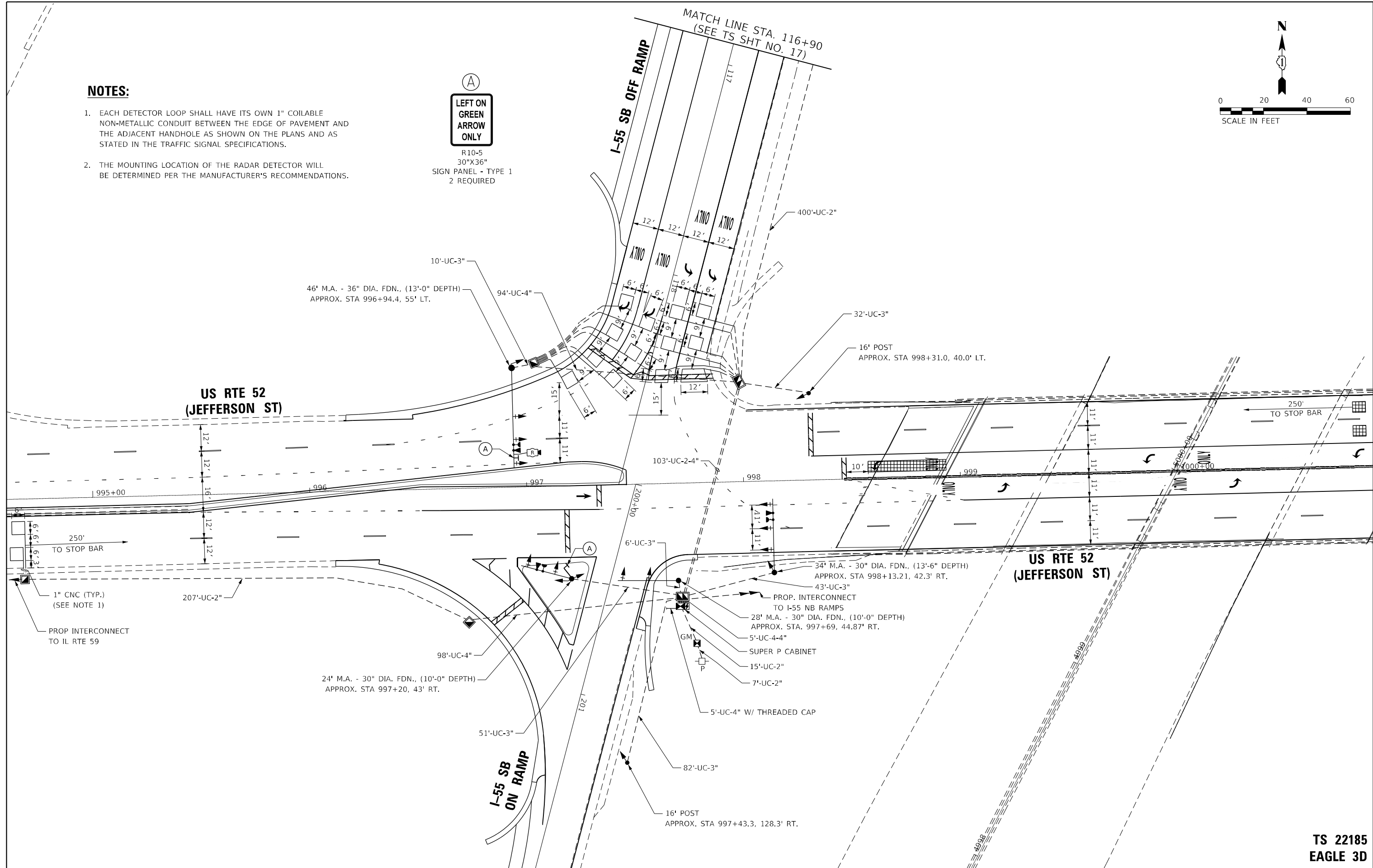
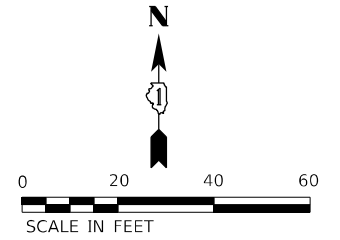
TS 22185
EAGLE 3D

NOTES:

1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
2. THE MOUNTING LOCATION OF THE RADAR DETECTOR WILL BE DETERMINED PER THE MANUFACTURER'S RECOMMENDATIONS.



R10-5
30"X36"
SIGN PANEL - TYPE 1
2 REQUIRED



TS SHT NO. 16

TS 22185
EAGLE 3D

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = mdelriche	DESIGNED - TM	REVISED -
DRAWN - TM	REVISOR -	
PLOT SCALE = 40,0000' / in.	CHECKED - AS	REVISOR -
PLOT DATE = 3/11/2022	DATE - 02-28-22	REVISOR -

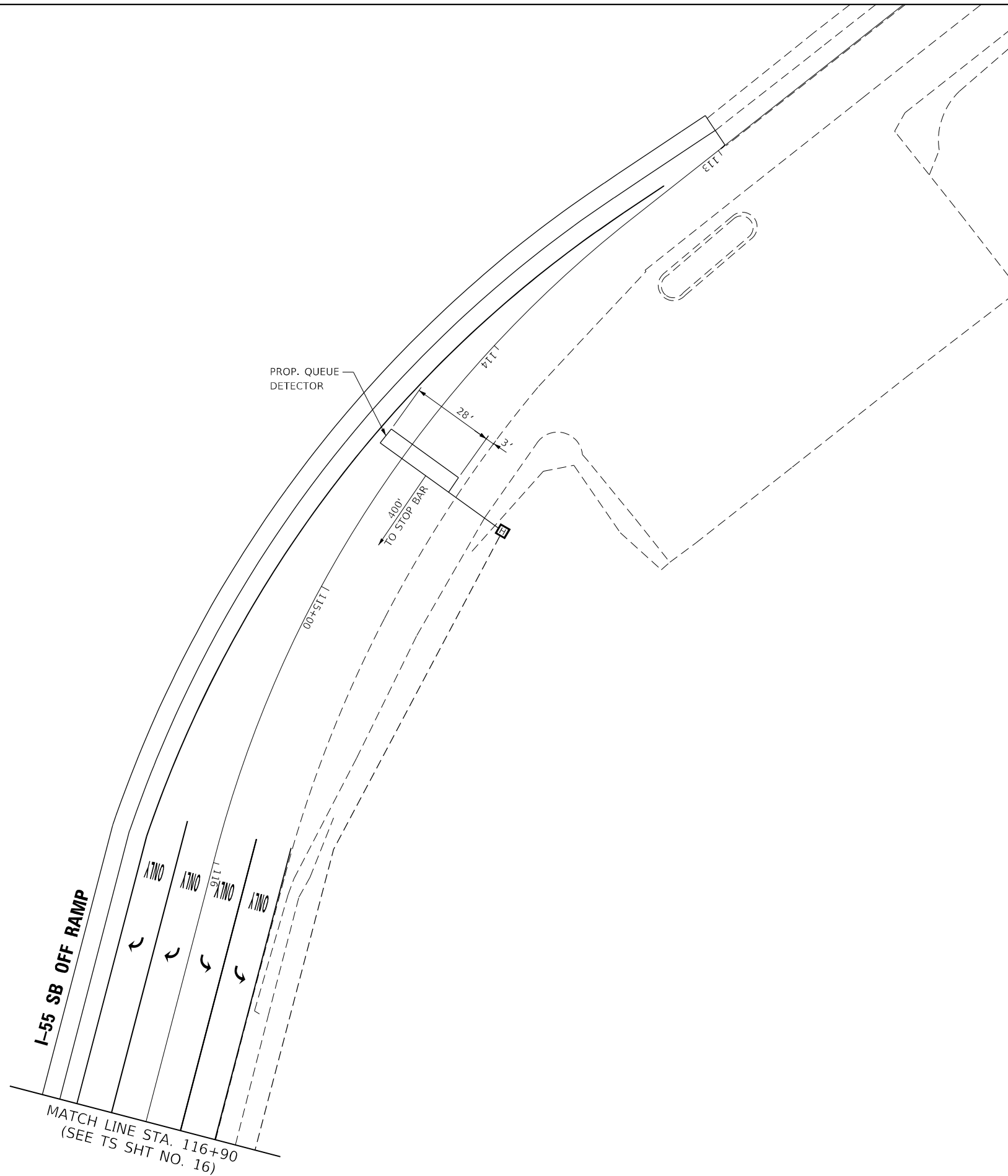
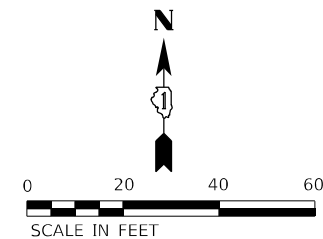
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN (SHEET 1 OF 2)
US RTE 52 (JEFFERSON ST) AND I-55 SB RAMPS

SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
607	2018-075-B-R	WILL	280	151
CONTRACT NO. 62H16				
ILLINOIS FED. AID PROJECT				

TS SHT NO. 17



AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = mdelrche	DESIGNED - TM	REVISED -
	DRAWN - TM	REVISED -
PLOT SCALE = 40,0000' / in.	CHECKED - AS	REVISED -
PLOT DATE = 3/11/2022	DATE - 02-28-22	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN (SHEET 2 OF 2)
US RTE 52 (JEFFERSON ST) AND I-55 SB RAMPS**

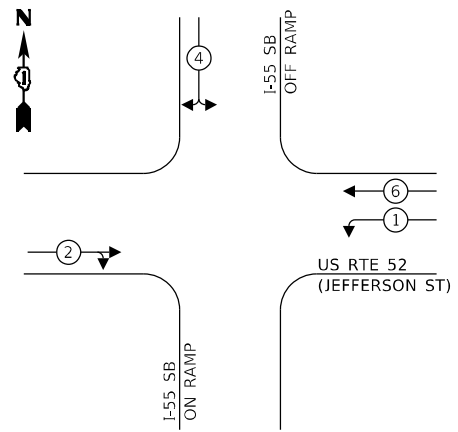
SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 607	SECTION 2018-075-B-R	COUNTY WILL	TOTAL SHEETS 280	SHEET NO. 152
			CONTRACT NO. 62H16	
ILLINOIS FED. AID PROJECT				

**TS 22185
EAGLE 3D**



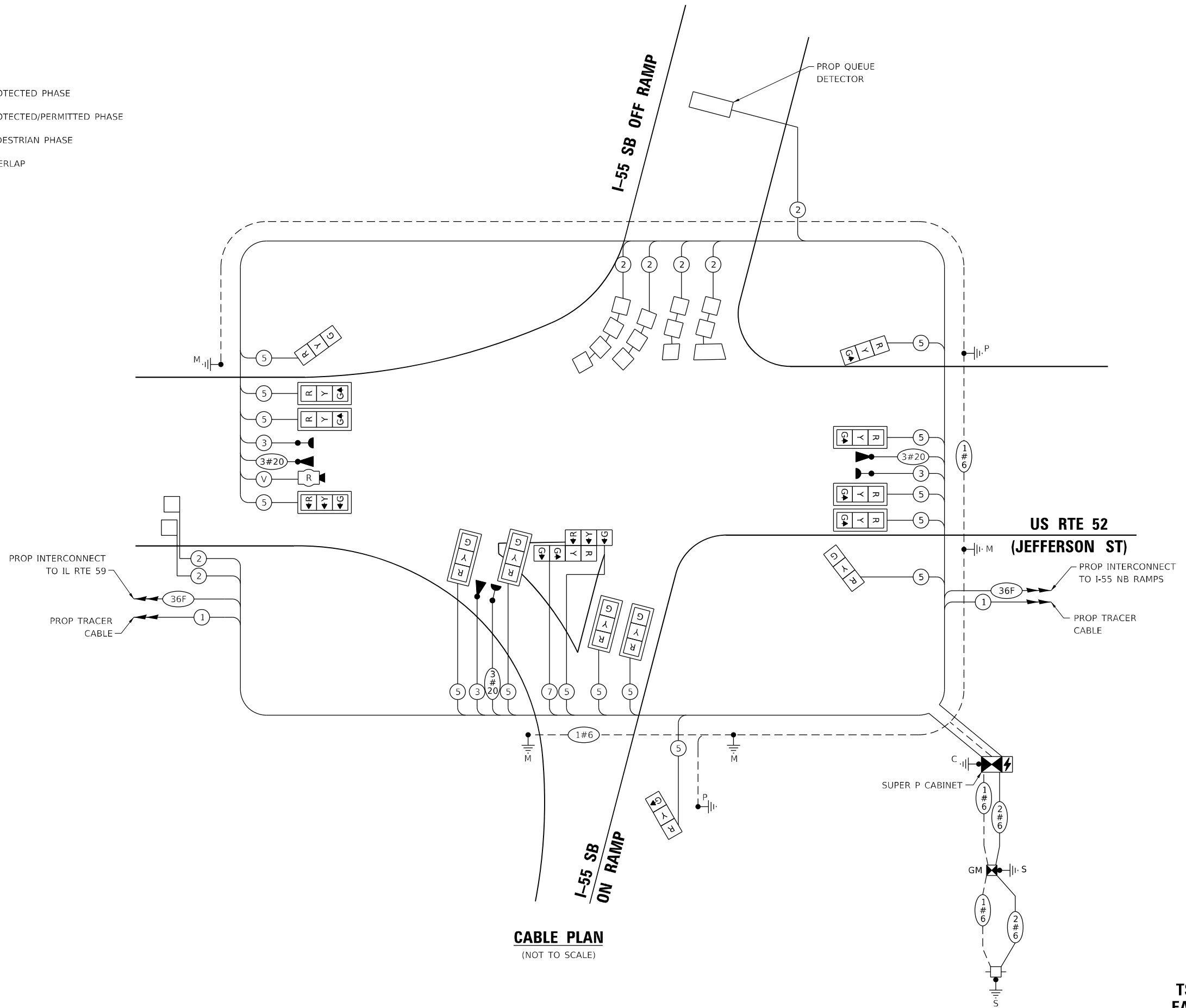
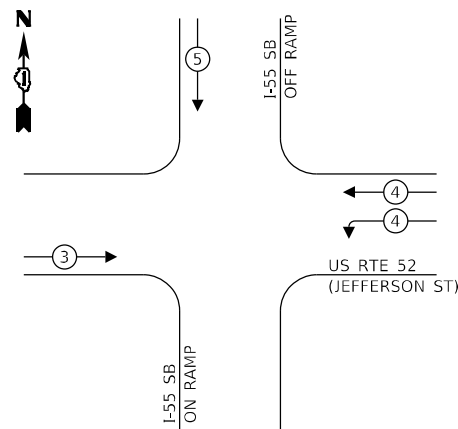
PROPOSED CONTROLLER SEQUENCE



LEGEND:

- ← ⊛ → PROTECTED PHASE
- ← ⊛ - - ⊛ → PROTECTED/PERMITTED PHASE
- ← ⊛ ⊛ → PEDESTRIAN PHASE
- ⊛ OL OVERLAP

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	16	11	50	88.0
(YELLOW)	16	20	5	16.0
(GREEN)	17	12	45	91.8
PERMISSIVE ARROW	-	-	-	-
PED. SIGNAL	-	20	100	-
CONTROLLER	1	100	100	100.00
UPS	1	25	100	25.00
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				320.8

ENERGY COSTS TO:

VILLAGE OF SHOREWOOD
ONE TOWNE CENTER BLVD.
SHOREWOOD, IL 60404

ENERGY SUPPLY: CONTACT: CHRISTY GOOSSENS
PHONE: (815) 724-5982
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: 58380-73023

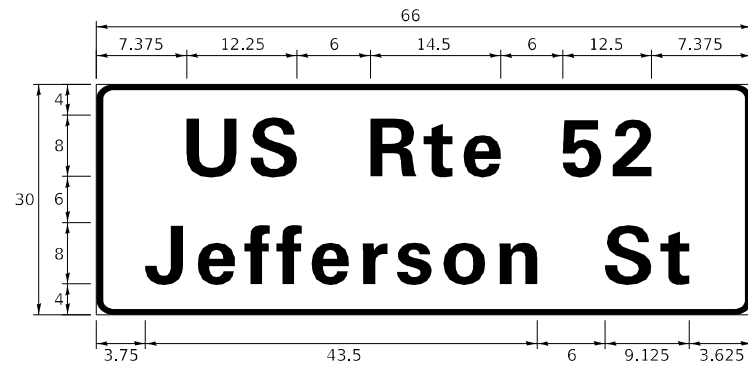
TS SHT NO. 18

CABLE PLAN
(NOT TO SCALE)

TS 22185
EAGLE 3D

SIGN PANEL – TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	13.75	2	ZZ	1

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
SIGN PANEL - TYPE 1	SQ FT	15
SIGN PANEL - TYPE 2	SQ FT	13.75
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	629
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	224
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	423
HANDHOLE	EACH	3
HEAVY-DUTY HANDHOLE	EACH	1
DOUBLE HANDHOLE	EACH	2
TRANSCEIVER - FIBER OPTIC	EACH	1
* ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	555
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2280
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	135
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1960
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	70
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	735
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	12
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	33.5
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	13
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	10
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	10
INDUCTIVE LOOP DETECTOR	EACH	7
DETECTOR LOOP, TYPE I	FOOT	580
* LIGHT DETECTOR	EACH	3
* LIGHT DETECTOR AMPLIFIER	EACH	1
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	8
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	8
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	555
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
RADAR VEHICLE DETECTION SYSTEM, SINGLE APPROACH, STOP BAR AND FAR BACK	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

* 100% COST TO VILLAGE OF SHOREWOOD

TS SHT NO. 19

TS 22185
EAGLE 3D

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = mde@tche	DESIGNED - TM	REVISED -
	DRAWN - TM	REVISED -
PLOT SCALE = 40,0000' / in.	CHECKED - AS	REVISED -
PLOT DATE = 3/11/2022	DATE - 02-28-22	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS
AND SCHEDULE OF QUANTITIES
US RTE 52 (JEFFERSON ST) AND I-55 SB RAMPS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
607	2018-075-B-R	WILL	280	154
			CONTRACT NO. 62H16	
ILLINOIS FED. AID PROJECT				

REMOVAL AND RELOCATION NOTES:

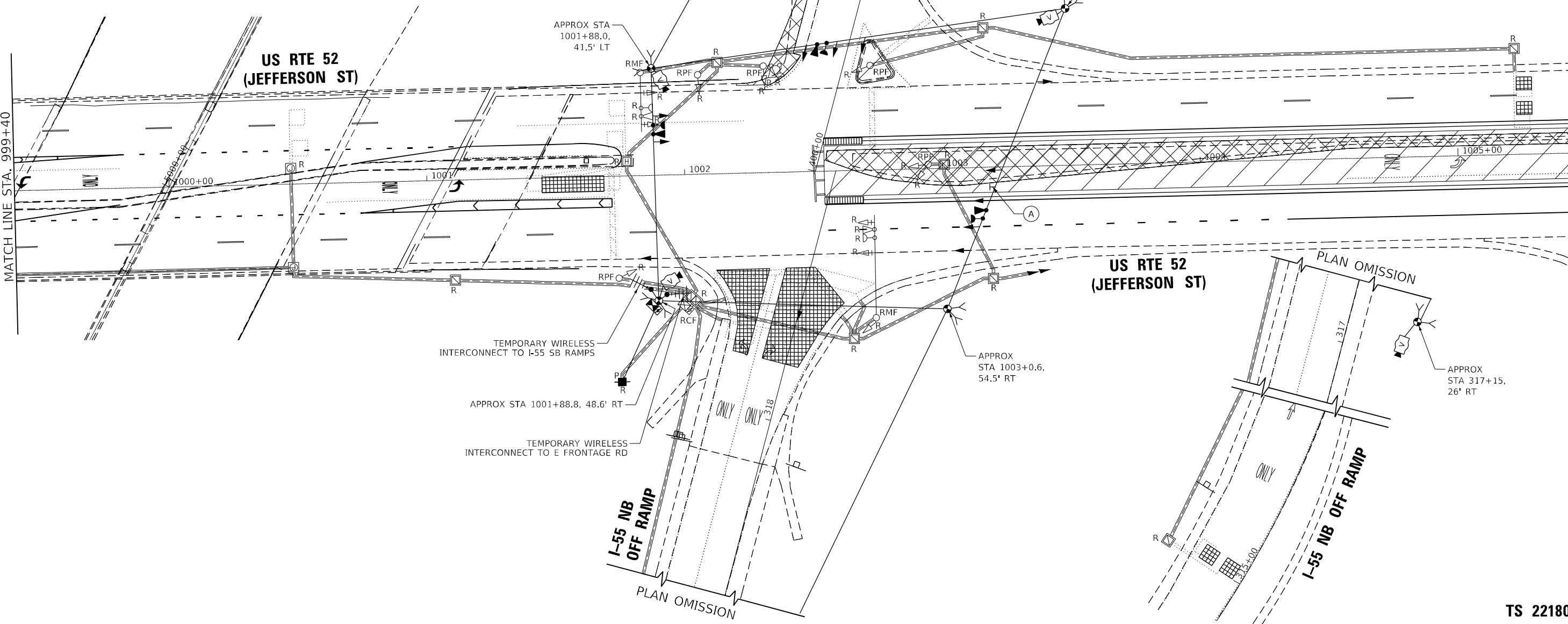
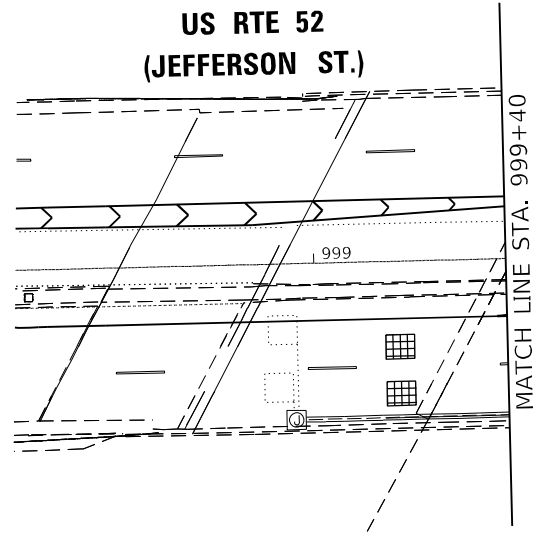
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 2 EACH STEEL MAST ARM ASSEMBLY AND POST
- 3 EACH TRAFFIC SIGNAL POST
- 3 EACH 3-SECTION SIGNAL HEAD
- 2 EACH 5-SECTION SIGNAL HEAD
- 1 EACH SERVICE INSTALLATION
- 1 EACH TRAFFIC SIGNAL BACKPLATE
- 1 EACH UPS (UNINTERRUPTABLE POWER SUPPLY)

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR THE PICK UP OF ALL THE EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY.

VILLAGE OF SHOREWOOD
 JORIEL NORIEGA
 DEPARTMENT OF PUBLIC WORKS
 815) 553-2321

- 3 EACH CONFIRMATION BEACON
- 3 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER



TS SHT NO. 20

AMES Engineering, Inc.
 CONSULTING ENGINEERS
 6330 Belmont Road, Suite 4B
 Downers Grove, IL 60516

USER NAME = mdelriche	DESIGNED - TM	REVISED -
DRAWN - TM	REVISOR -	
PLOT SCALE = 40,0000' / in.	CHECKED - AS	REVISOR -
PLOT DATE = 3/11/2022	DATE - 02-28-22	REVISOR -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

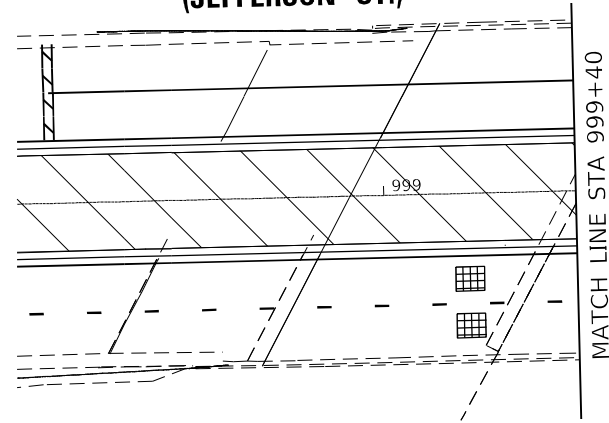
**PRESTAGE TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
 AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
 US RTE 52 (JEFFERSON ST) AND I-55 NB RAMPS**

SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

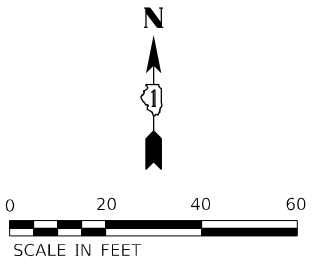
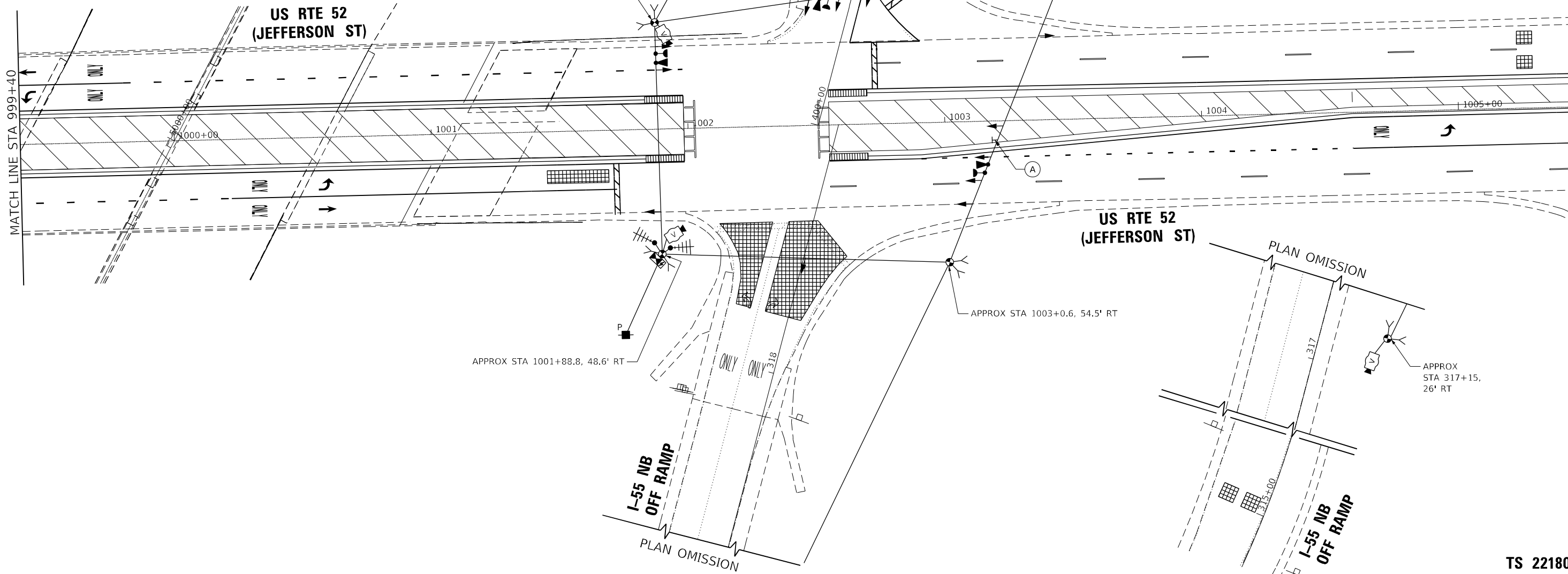
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
607	2018-075-B-R	WILL	280	155
CONTRACT NO. 62H16				
ILLINOIS FED. AID PROJECT				

**TS 22180
 EAGLE 3D**

US RTE 52
(JEFFERSON ST.)



MATCH LINE STA 999+40



(A)
LEFT ON GREEN
ARROW ONLY
R10-5
30"X36"
SIGN PANEL - TYPE 1
1 REQUIRED

APPROX STA 1001+88.0, 41.5' LT

APPROX STA 401+60, 36.0' LT

APPROX STA 1003+49.1, 60.8' LT

APPROX STA 1003+0.6, 54.5' RT

APPROX STA 1001+88.8, 48.6' RT

APPROX STA 317+15, 26' RT

TS SHT NO. 21

TS 22180
EAGLE 3D

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

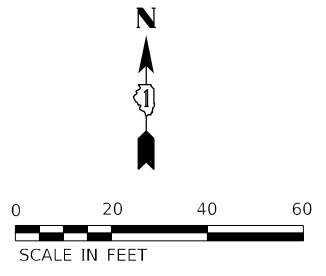
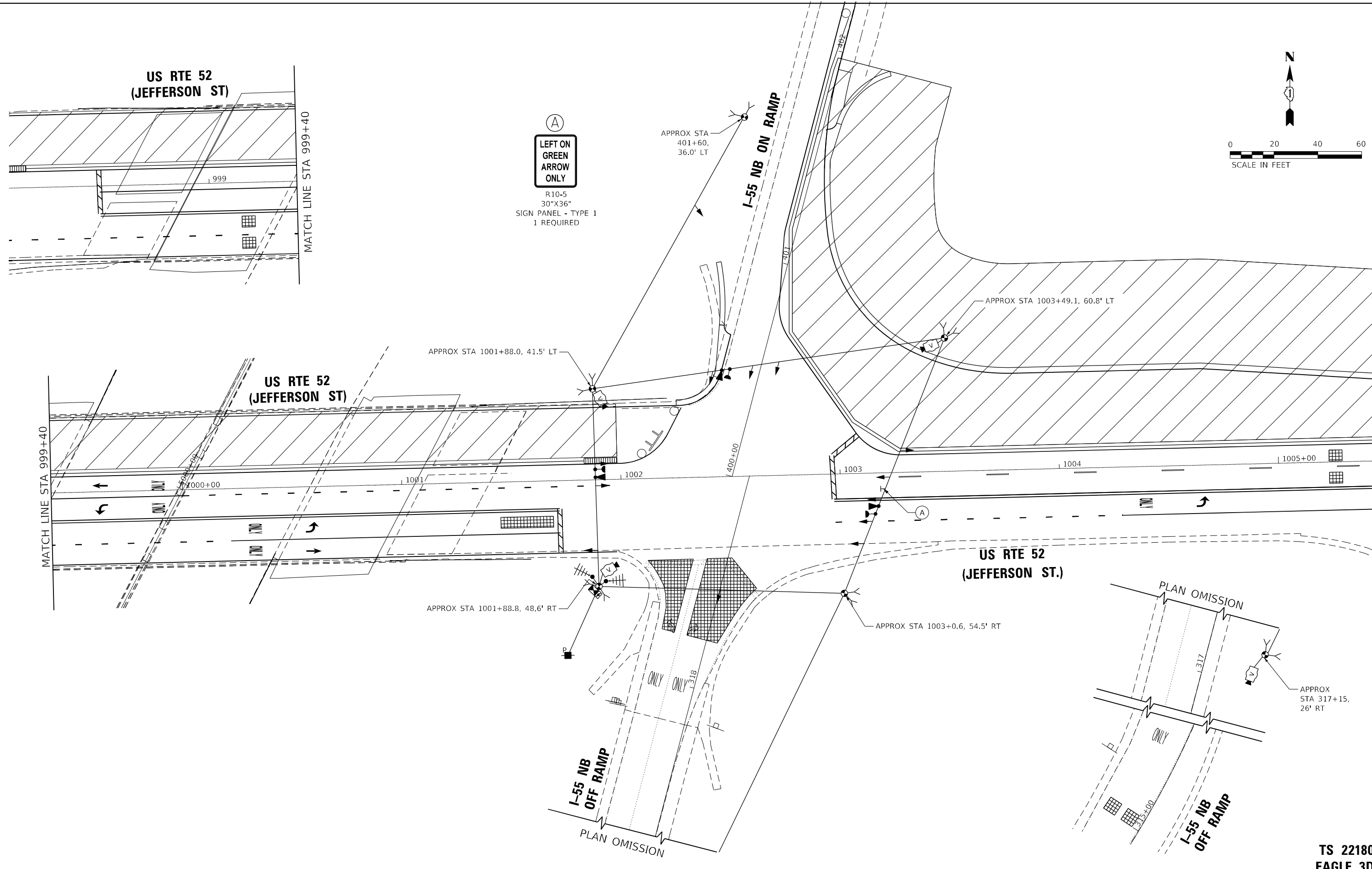
USER NAME = mdelriche	DESIGNED - TM	REVISED -
DRAWN - TM	REVISED -	
PLOT SCALE = 40,0000' / in.	CHECKED - AS	REVISED -
PLOT DATE = 3/11/2022	DATE - 02-28-22	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 1 TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
US RTE 52 (JEFFERSON ST) AND I-55 NB RAMPS
SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 607	SECTION 2018-075-B-R	COUNTY WILL	TOTAL SHEETS 280	SHEET NO. 156
CONTRACT NO. 62H16				
ILLINOIS FED. AID PROJECT				

TS SHT NO. 22



(A)
LEFT ON GREEN ARROW ONLY
 R10-5
 30"X36"
 SIGN PANEL - TYPE 1
 1 REQUIRED

AMES Engineering, Inc.
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 6330 Belmont Road, Suite 4B
 Downers Grove, IL 60516

USER NAME = mdelriche	DESIGNED - TM	REVISED -
DRAWN - TM	REVISED -	
PLOT SCALE = 40,0000' / in.	CHECKED - AS	REVISED -
PLOT DATE = 3/11/2022	DATE - 02-28-22	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

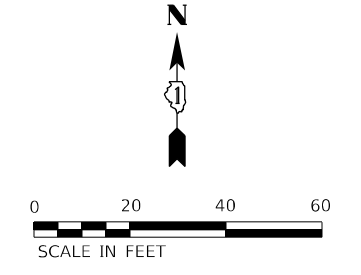
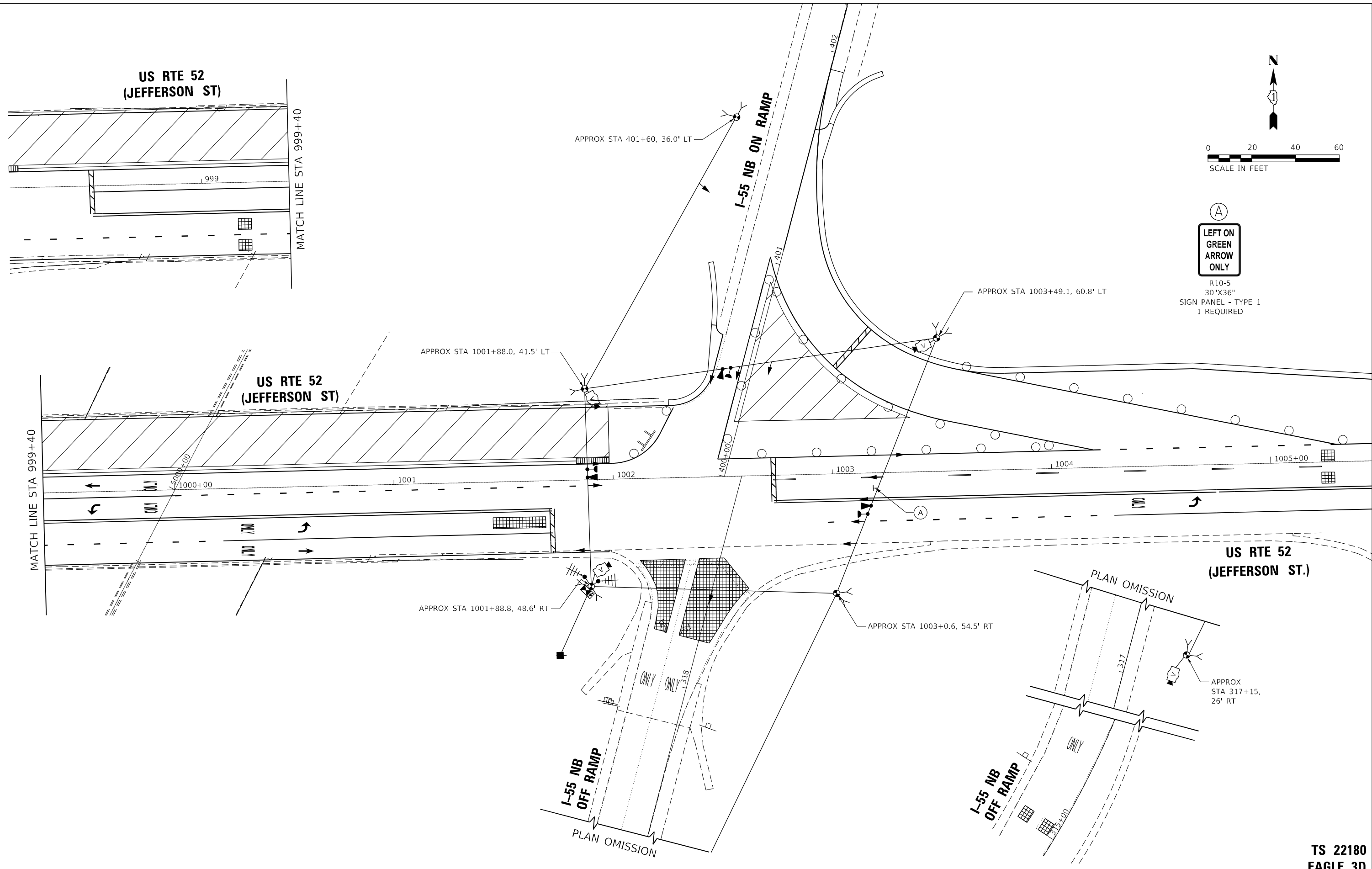
**STAGE 2A TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
 US RTE 52 (JEFFERSON ST) AND I-55 NB RAMPS**

SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 607	SECTION 2018-075-B-R	COUNTY WILL	TOTAL SHEETS 280	SHEET NO. 157
CONTRACT NO. 62H16				
ILLINOIS FED. AID PROJECT				

**TS 22180
 EAGLE 3D**

TS SHT NO. 23



(A)
LEFT ON GREEN ARROW ONLY
 R10-5
 30"X36"
 SIGN PANEL - TYPE 1
 1 REQUIRED

AMES Engineering, Inc.
 CONSULTING ENGINEERS
 6330 Belmont Road, Suite 4B
 Downers Grove, IL 60516

USER NAME = mde@che	DESIGNED - TM	REVISED -
DRAWN - TM	REVISOR -	
PLOT SCALE = 40,0000' / in.	CHECKED - AS	REVISED -
PLOT DATE = 3/11/2022	DATE - 02-28-22	REVISED -

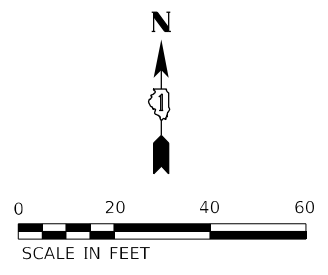
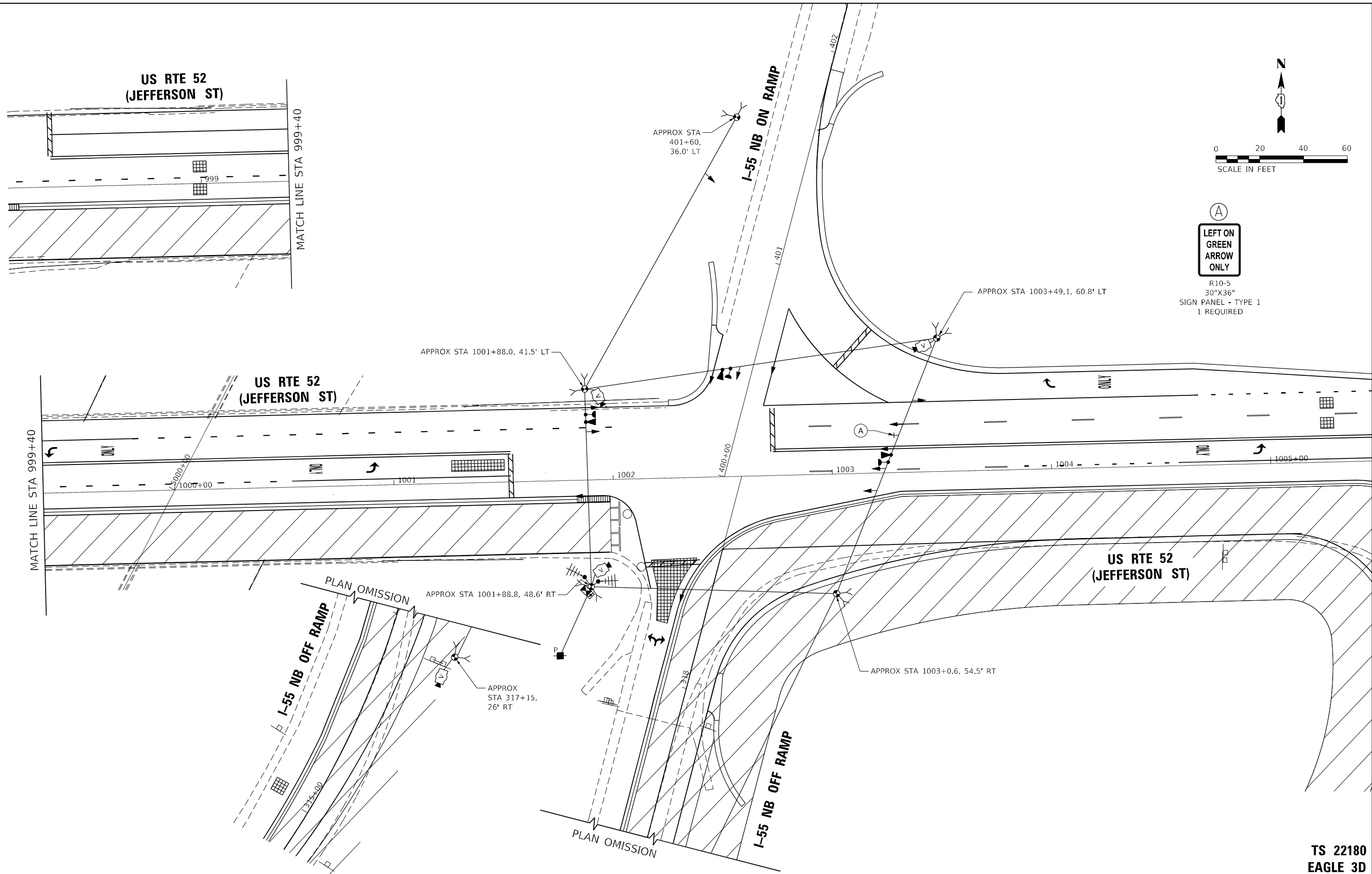
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**STAGES 2B AND 2C TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
 US RTE 52 (JEFFERSON ST) AND I-55 NB RAMPS**
 SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 607	SECTION 2018-075-B-R	COUNTY WILL	TOTAL SHEETS 280	SHEET NO. 158
CONTRACT NO. 62H16				
ILLINOIS FED. AID PROJECT				

**TS 22180
 EAGLE 3D**

TS SHT NO. 24



(A)
LEFT ON GREEN ARROW ONLY
 R10-5
 30"X36"
 SIGN PANEL - TYPE 1
 1 REQUIRED

AMES Engineering, Inc.
 CONSULTING ENGINEERS
 6330 Belmont Road, Suite 4B
 Downers Grove, IL 60516

USER NAME = mde@che	DESIGNED - TM	REVISED -
DRAWN - TM	REVISED -	
PLOT SCALE = 40,0000' / in.	CHECKED - AS	REVISED -
PLOT DATE = 3/11/2022	DATE - 02-28-22	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

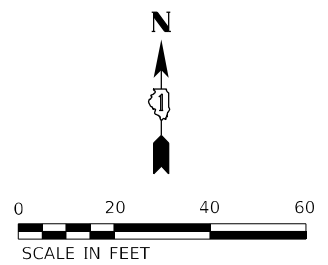
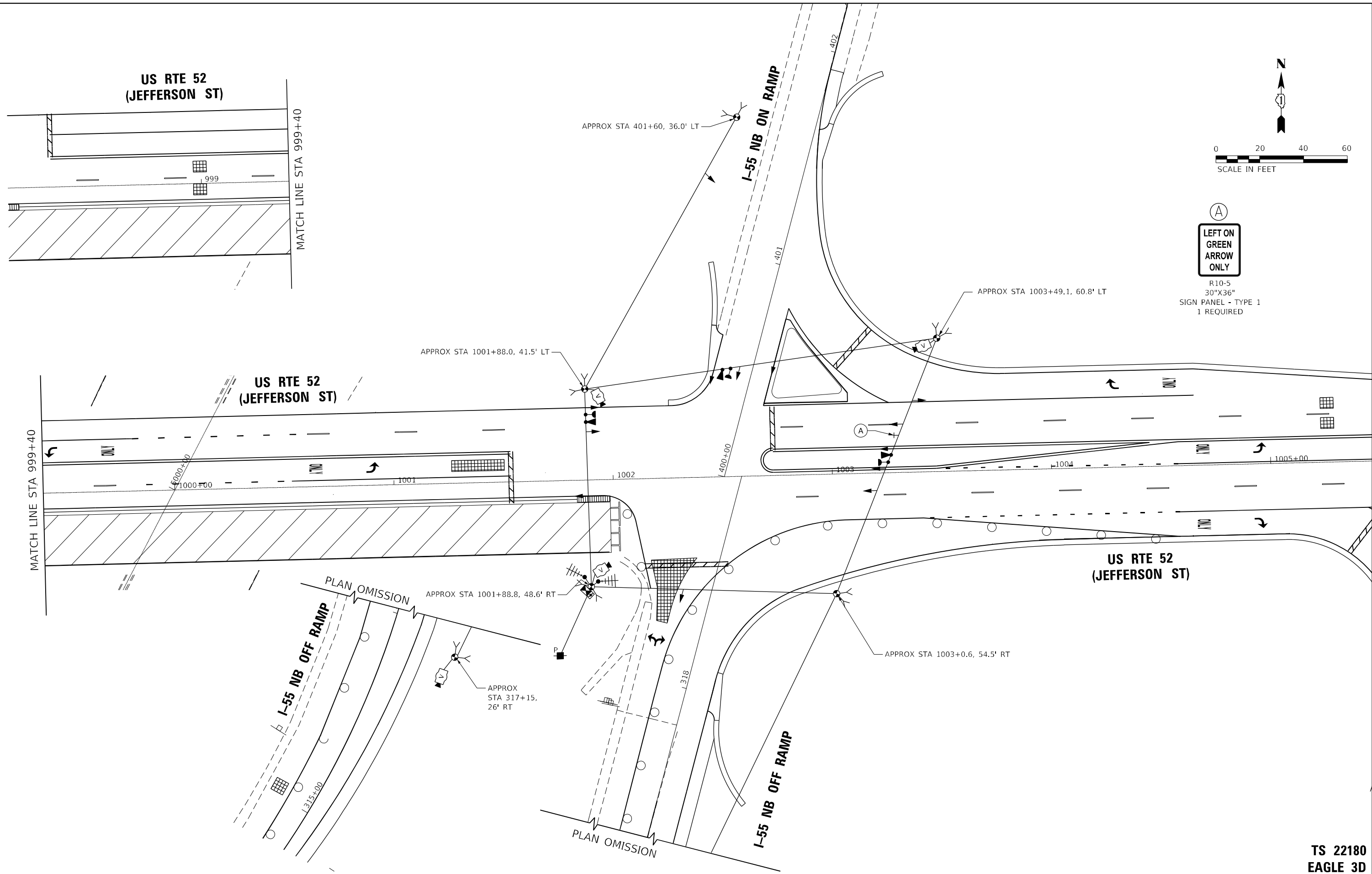
**STAGES 3A & 3B TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
 US RTE 52 (JEFFERSON ST) AND I-55 NB RAMPS**

SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 607	SECTION 2018-075-B-R	COUNTY WILL	TOTAL SHEETS 280	SHEET NO. 159
				CONTRACT NO. 62H16
ILLINOIS FED. AID PROJECT				

**TS 22180
 EAGLE 3D**

TS SHT NO. 25



(A)
LEFT ON GREEN ARROW ONLY
 R10-5
 30"X36"
 SIGN PANEL - TYPE 1
 1 REQUIRED

AMES Engineering, Inc.
 CONSULTING ENGINEERS
 6330 Belmont Road, Suite 4B
 Downers Grove, IL 60516

USER NAME = mdelriche	DESIGNED - TM	REVISED -
DRAWN - TM	REVISED -	
PLOT SCALE = 40,0000' / in.	CHECKED - AS	REVISED -
PLOT DATE = 3/11/2022	DATE - 02-28-22	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

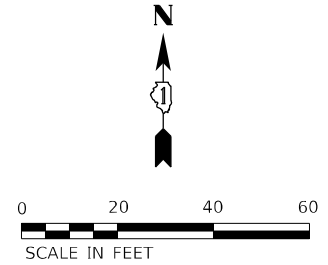
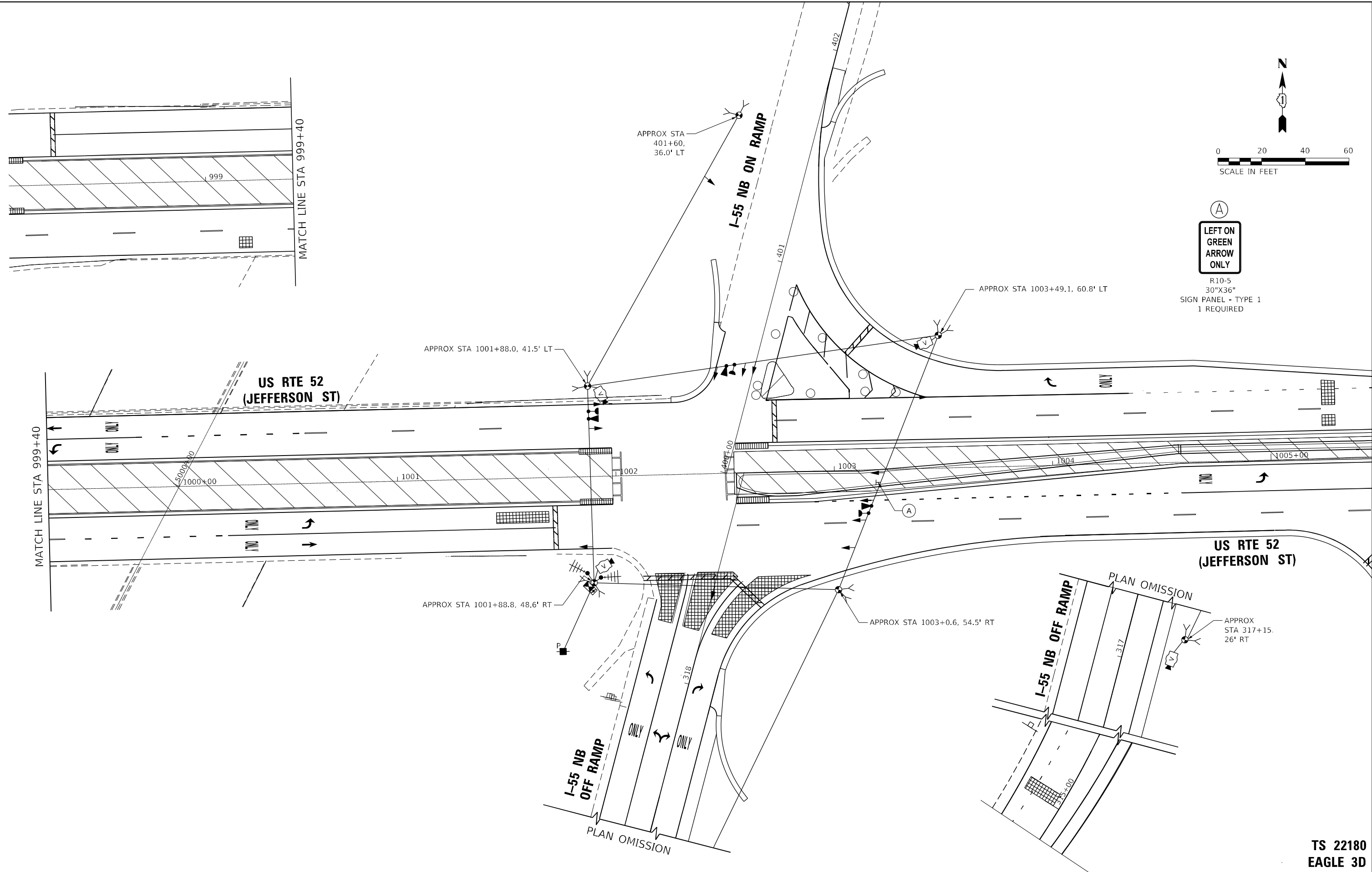
**STAGE 3C TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
 US RTE 52 (JEFFERSON ST) AND I-55 NB RAMPS**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
607	2018-075-B-R	WILL	280	160
CONTRACT NO. 62H16				
ILLINOIS FED. AID PROJECT				

**TS 22180
 EAGLE 3D**

SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

TS SHT NO. 26



(A)
LEFT ON GREEN ARROW ONLY
 R10-5
 30"X36"
 SIGN PANEL - TYPE 1
 1 REQUIRED

AMES Engineering, Inc.
 CONSULTING ENGINEERS
 6330 Belmont Road, Suite 4B
 Downers Grove, IL 60516

USER NAME = mdelriche	DESIGNED - TM	REVISED -
DRAWN - TM	REVISOR -	
PLOT SCALE = 40,0000' / in.	CHECKED - AS	REVISED -
PLOT DATE = 3/11/2022	DATE - 02-28-22	REVISED -

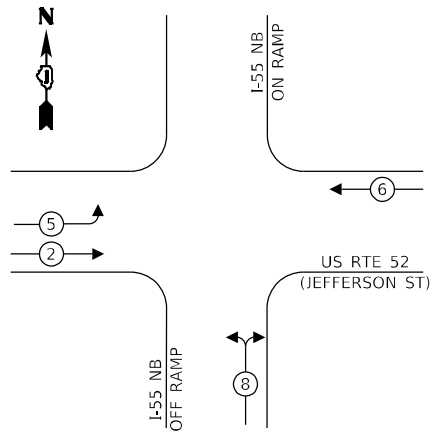
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**STAGE 4 TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
 US RTE 52 (JEFFERSON ST) AND I-55 NB RAMP**

F.A.P. RTE. 607	SECTION 2018-075-B-R	COUNTY WILL	TOTAL SHEETS 280	SHEET NO. 161
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H16	

**TS 22180
 EAGLE 3D**

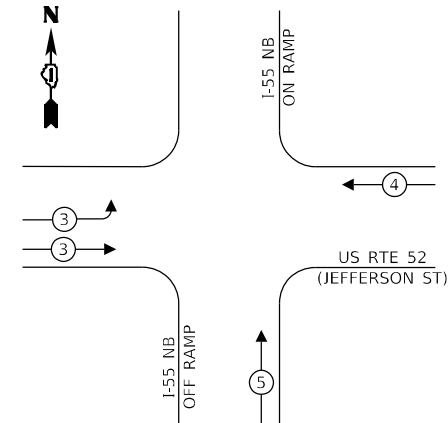
TEMPORARY CONTROLLER SEQUENCE



LEGEND:

- ← (⊛) ← PROTECTED PHASE
- ← (⊛) ← PROTECTED/PERMITTED PHASE
- ← (⊛) ← PEDESTRIAN PHASE
- ← (⊛) ← OL OVERLAP

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	13	11	50	71.5
(YELLOW)	13	20	5	13.0
(GREEN)	13	12	45	70.2
PERMISSIVE ARROW	-	10	10	0.0
PED. SIGNAL	-	20	100	0.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				429.7

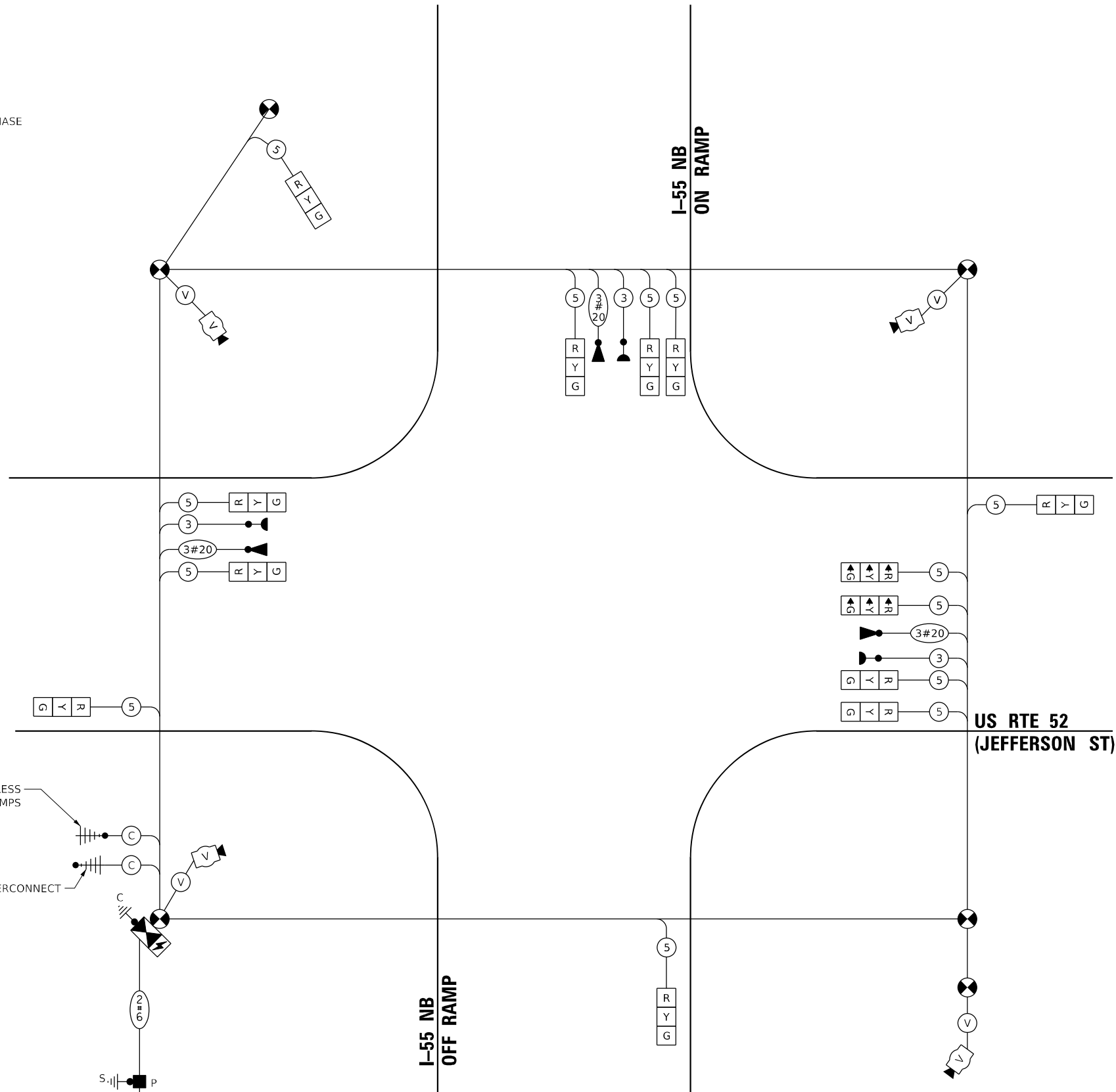
ENERGY COSTS TO:

VILLAGE OF SHOREWOOD
ONE TOWNE CENTER BLVD.
SHOREWOOD, IL 60404

ENERGY SUPPLY: CONTACT: CHRISTY GOOSSENS
PHONE: (815) 724-5982
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: 58380-73023

TEMPORARY WIRELESS INTERCONNECT TO I-55 SB RAMPS

TEMPORARY WIRELESS INTERCONNECT TO EAST FRONTAGE ROAD



TEMPORARY CABLE PLAN
(NOT TO SCALE)

TS SHT NO. 27

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = mid@tche	DESIGNED - TM	REVISED -
PLOT SCALE = 40,000' / in.	DRAWN - TM	REVISED -
PLOT DATE = 3/11/2022	CHECKED - AS	REVISED -
	DATE - 02-28-22	REVISED -

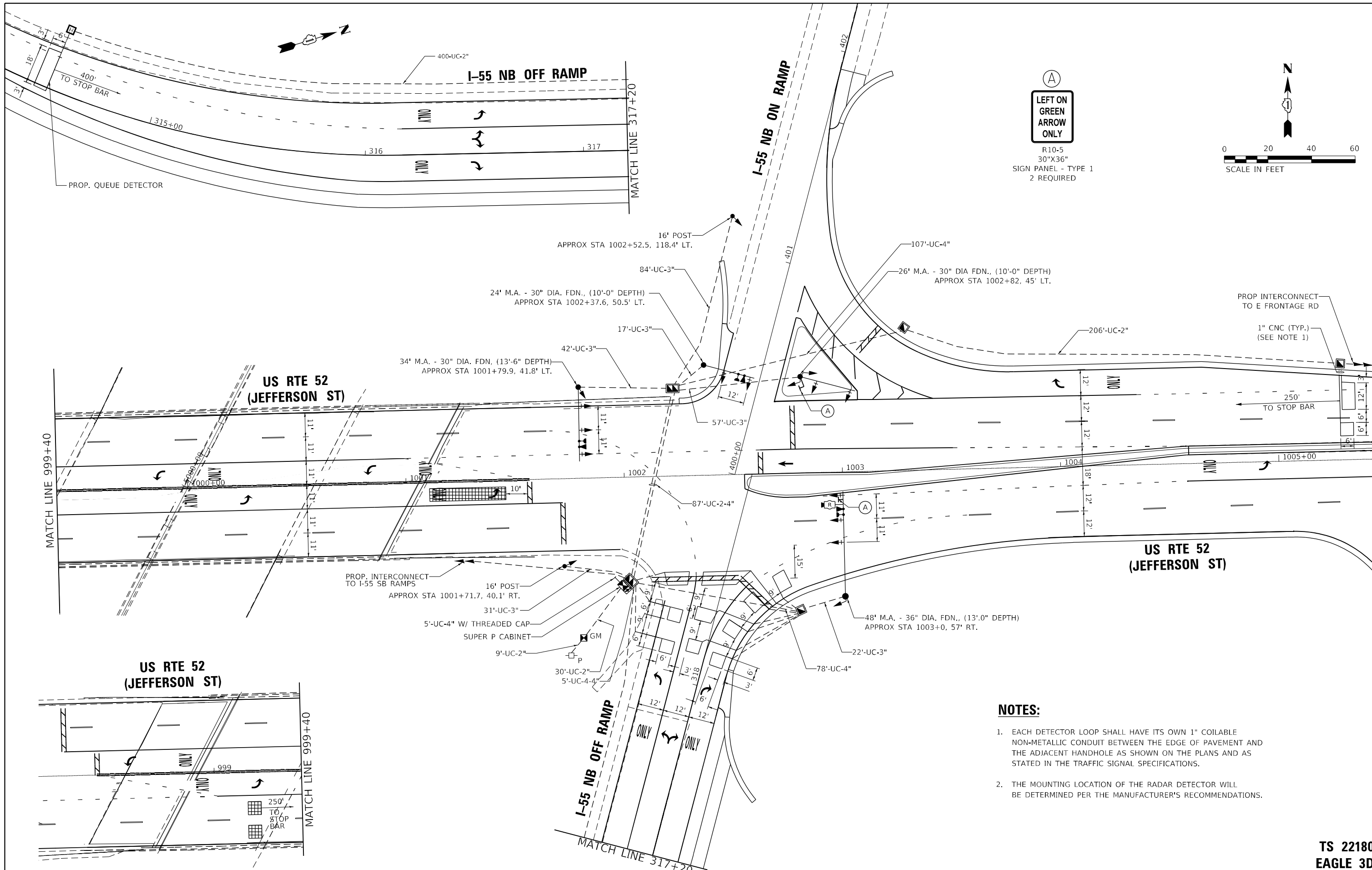
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALL STAGES TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION
DIAGRAM, AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
US RTE 52 (JEFFERSON ST) AND I-55 NB RAMPS

SCALE: NTS SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 607	SECTION 2018-075-B-R	COUNTY WILL	TOTAL SHEETS 280	SHEET NO. 162
			CONTRACT NO. 62H16	
ILLINOIS FED. AID PROJECT				

TS 22180
EAGLE 3D



- NOTES:**
1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
 2. THE MOUNTING LOCATION OF THE RADAR DETECTOR WILL BE DETERMINED PER THE MANUFACTURER'S RECOMMENDATIONS.

TS SHT NO. 28

TS 22180
EAGLE 3D

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = mdelriche	DESIGNED - TM	REVISED -
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PLOT DATE = 3/11/2022	CHECKED - AS	REVISED -
	DATE - 02-28-22	REVISED -

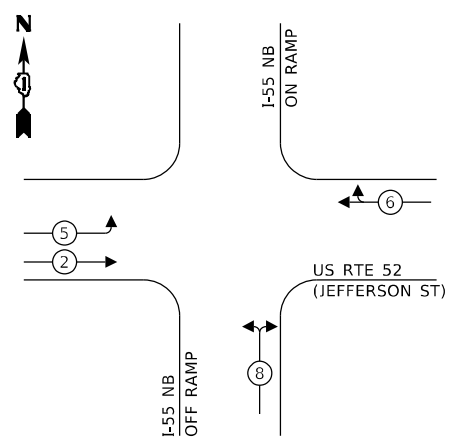
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
US RTE 52 (JEFFERSON ST) AND I-55 NB RAMPS
SCALE: 1" = 20'
SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 607	SECTION 2018-075-B-R	COUNTY WILL	TOTAL SHEETS 280	SHEET NO. 163
CONTRACT NO. 62H16				
ILLINOIS FED. AID PROJECT				



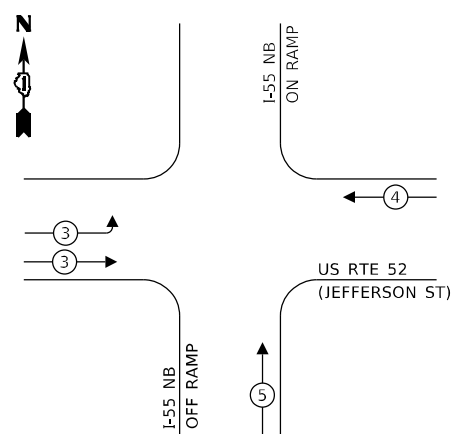
PROPOSED CONTROLLER SEQUENCE



LEGEND:

- ← ⊛ ← PROTECTED PHASE
- ← ⊛ - PROTECTED/PERMITTED PHASE
- ← ⊛ → PEDESTRIAN PHASE
- ⊛ OL OVERLAP

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

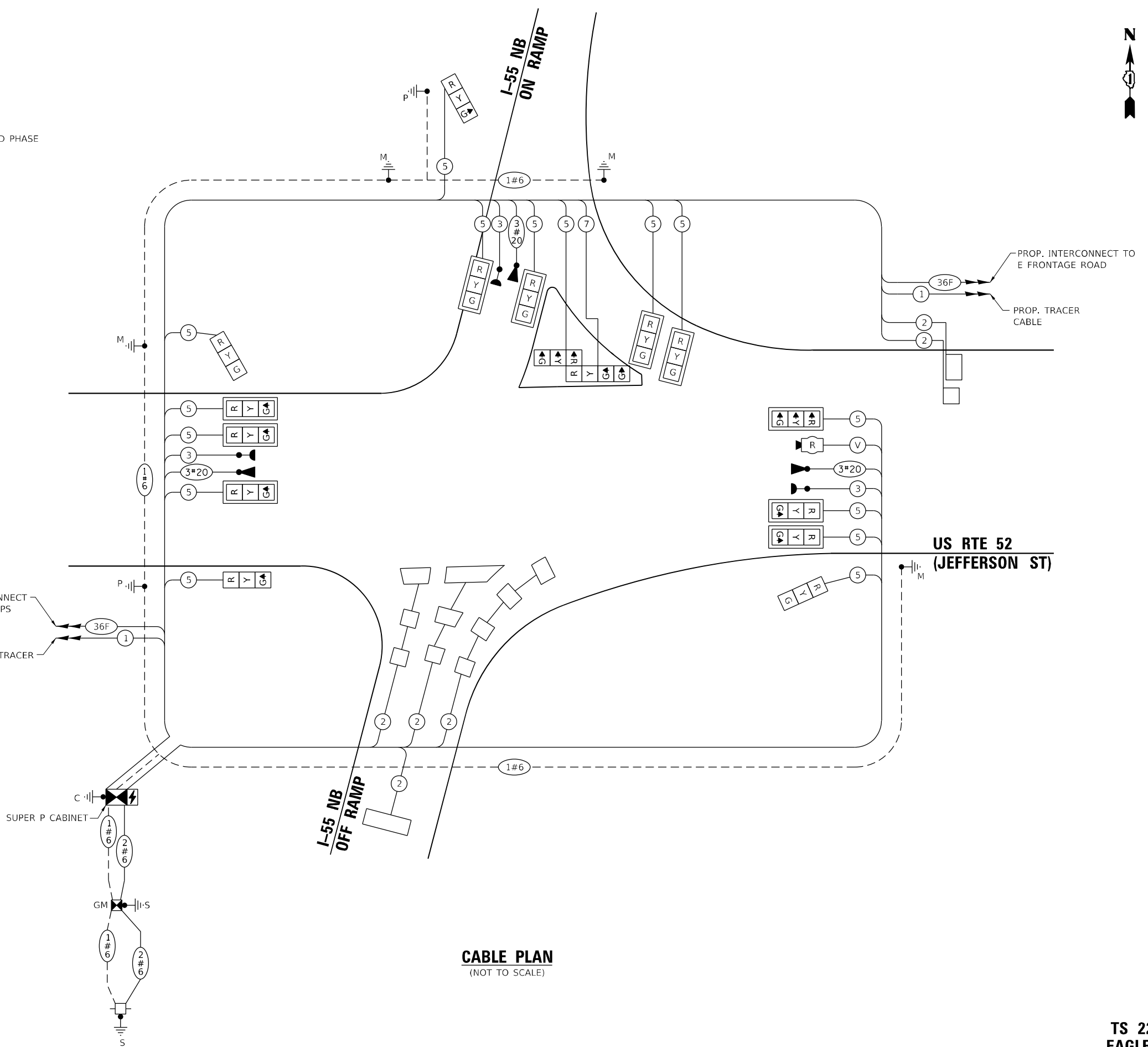
TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	16	11	50	88.0
(YELLOW)	16	20	5	16.0
(GREEN)	17	12	45	91.8
PERMISSIVE ARROW	-	10	10	-
PED. SIGNAL	-	20	100	-
CONTROLLER	1	100	100	100.00
UPS	1	25	100	25.00
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				320.8

ENERGY COSTS TO:

VILLAGE OF SHOREWOOD

ONE TOWNE CENTER BLVD.
SHOREWOOD, ILLINOIS 60404

ENERGY SUPPLY: CONTACT: CHRISTY GOOSSENS
PHONE: (815) 724-5982
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: 58380-73023



CABLE PLAN
(NOT TO SCALE)

TS SHT NO. 29

TS 22180
EAGLE 3D

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = mid@iche	DESIGNED - TM	REVISED -
PLOT SCALE = 40,0000' / in.	DRAWN - TM	REVISED -
PLOT DATE = 3/11/2022	CHECKED - AS	REVISED -
	DATE - 02-28-22	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

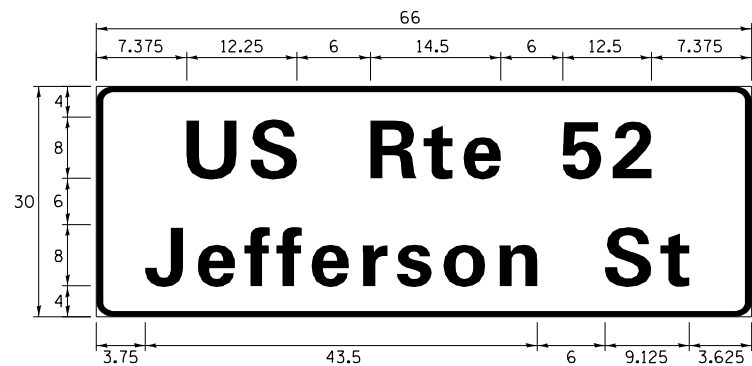
CABLE PLAN, PHASE DESIGNATION DIAGRAM AND
EMERGENCY VEHICLE PREEMPTION SEQUENCE
US RTE 52 (JEFFERSON ST) AND I-55 NB RAMPS

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

F.A.P. RTE. 607	SECTION 2018-075-B-R	COUNTY WILL	TOTAL SHEETS 280	SHEET NO. 164
CONTRACT NO. 62H16			ILLINOIS FED. AID PROJECT	

SIGN PANEL – TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ. FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	13.75	2	ZZ	1

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
SIGN PANEL - TYPE 1	SQ FT	15
SIGN PANEL - TYPE 2	SQ FT	13.75
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	645
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	253
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	384
HANDHOLE	EACH	3
HEAVY-DUTY HANDHOLE	EACH	1
DOUBLE HANDHOLE	EACH	2
TRANSCEIVER - FIBER OPTIC	EACH	1
* ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	600
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2800
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	195
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1550
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	95
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	730
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	12
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	33.5
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	13
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	10
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	10
INDUCTIVE LOOP DETECTOR	EACH	6
DETECTOR LOOP, TYPE I	FOOT	355
* LIGHT DETECTOR	EACH	3
* LIGHT DETECTOR AMPLIFIER	EACH	1
* TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	8
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	8
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	600
* FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
RADAR VEHICLE DETECTION SYSTEM, SINGLE APPROACH, STOP BAR AND FAR BACK	EACH	1
REMOVE EXISTING JUNCTION BOX	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

* 100% COST TO VILLAGE OF SHOREWOOD

TS SHT NO. 30

TS 22180
EAGLE 3D

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = mde@tche	DESIGNED - TM	REVISIONS -
	DRAWN - TM	REVISIONS -
PLOT SCALE = 40,0000 ' / in.	CHECKED - AS	REVISIONS -
PLOT DATE = 3/11/2022	DATE - 02-28-22	REVISIONS -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS
AND SCHEDULE OF QUANTITIES
US RTE 52 (JEFFERSON ST) AND I-55 NB RAMP

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
607	2018-075-B-R	WILL	280	165
			CONTRACT NO. 62H16	
ILLINOIS FED. AID PROJECT				

REMOVAL AND RELOCATION NOTES:

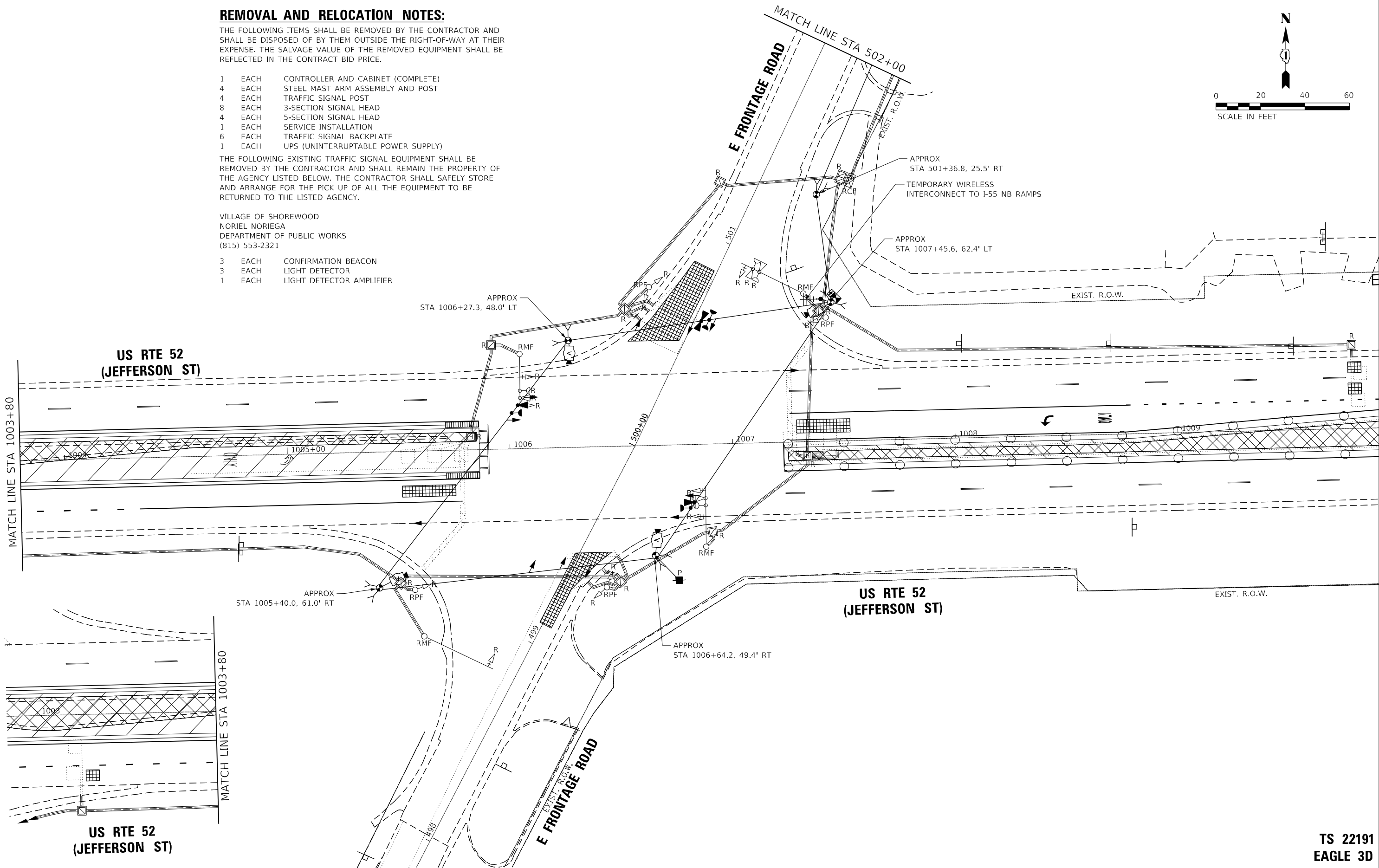
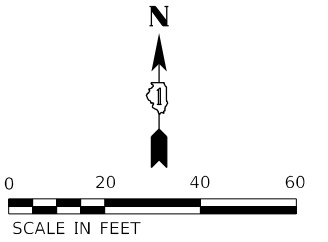
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 4 EACH STEEL MAST ARM ASSEMBLY AND POST
- 4 EACH TRAFFIC SIGNAL POST
- 8 EACH 3-SECTION SIGNAL HEAD
- 4 EACH 5-SECTION SIGNAL HEAD
- 1 EACH SERVICE INSTALLATION
- 6 EACH TRAFFIC SIGNAL BACKPLATE
- 1 EACH UPS (UNINTERRUPTABLE POWER SUPPLY)

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR THE PICK UP OF ALL THE EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY.

VILLAGE OF SHOREWOOD
 NORIEL NORIEGA
 DEPARTMENT OF PUBLIC WORKS
 (815) 553-2321

- 3 EACH CONFIRMATION BEACON
- 3 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER



TS SHT NO. 31

**TS 22191
 EAGLE 3D**

AMES Engineering, Inc.
 CONSULTING ENGINEERS
 6330 Belmont Road, Suite 4B
 Downers Grove, IL 60516

USER NAME = mid@icche	DESIGNED - TM	REVISED -
PLOT SCALE = 40,0000' / in.	DRAWN - TM	REVISED -
PLOT DATE = 3/11/2022	CHECKED - AS	REVISED -
	DATE - 02-28-22	REVISED -

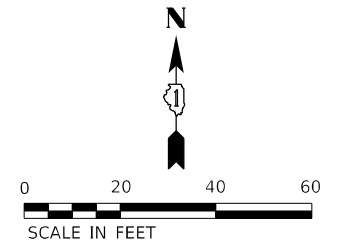
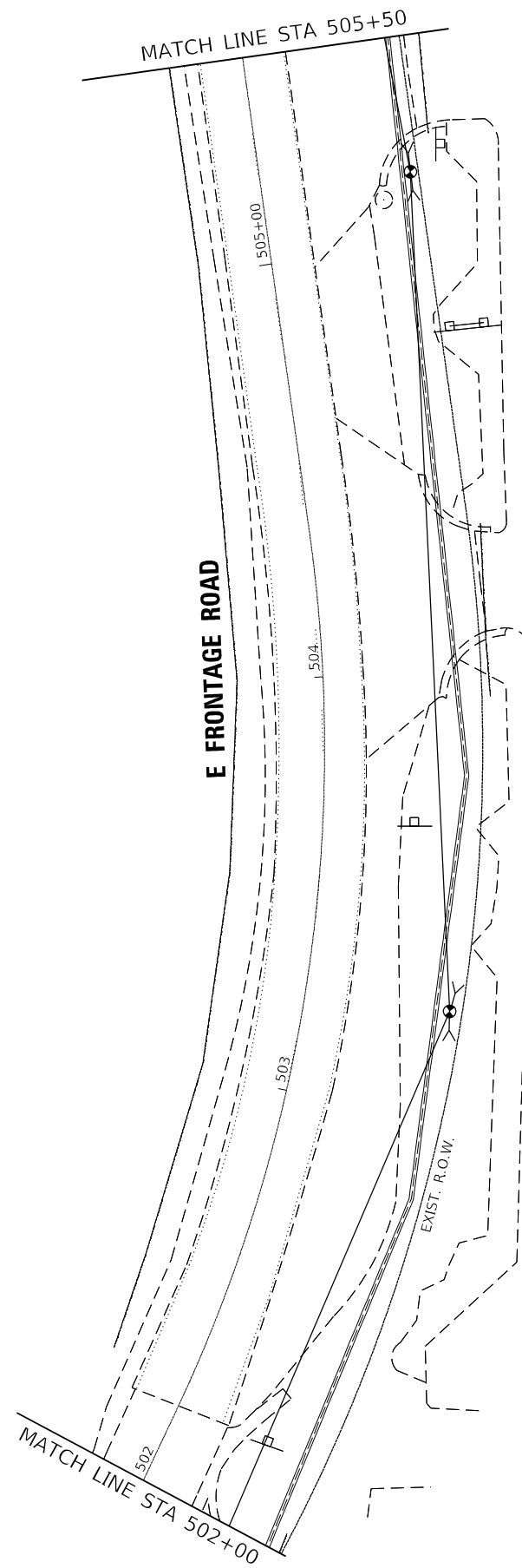
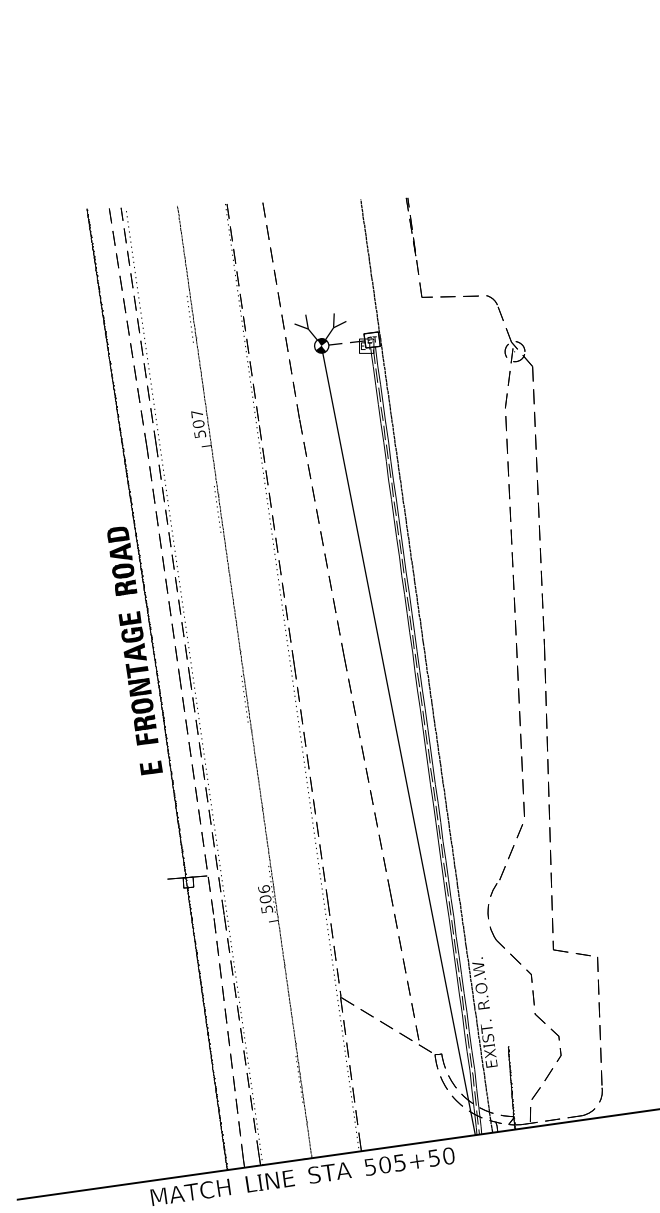
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PRESTAGE TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND
 REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN - SHEET 1 OF 2
 US RTE 52 (JEFFERSON ST) AND EAST FRONTAGE RD**

SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
607	2018-075-B-R	WILL	280	166
				CONTRACT NO. 62H16
ILLINOIS FED. AID PROJECT				

TS SHT NO. 32



AMES Engineering, Inc.
 CONSULTING ENGINEERS
 6330 Belmont Road, Suite 4B
 Downers Grove, IL 60516

USER NAME = mde@tche	DESIGNED - TM	REVISED -
DRAWN - TM	CHECKED - AS	REVISED -
PLOT SCALE = 40,0000' / in.	DATE - 02-28-22	REVISED -
PLOT DATE = 3/11/2022		

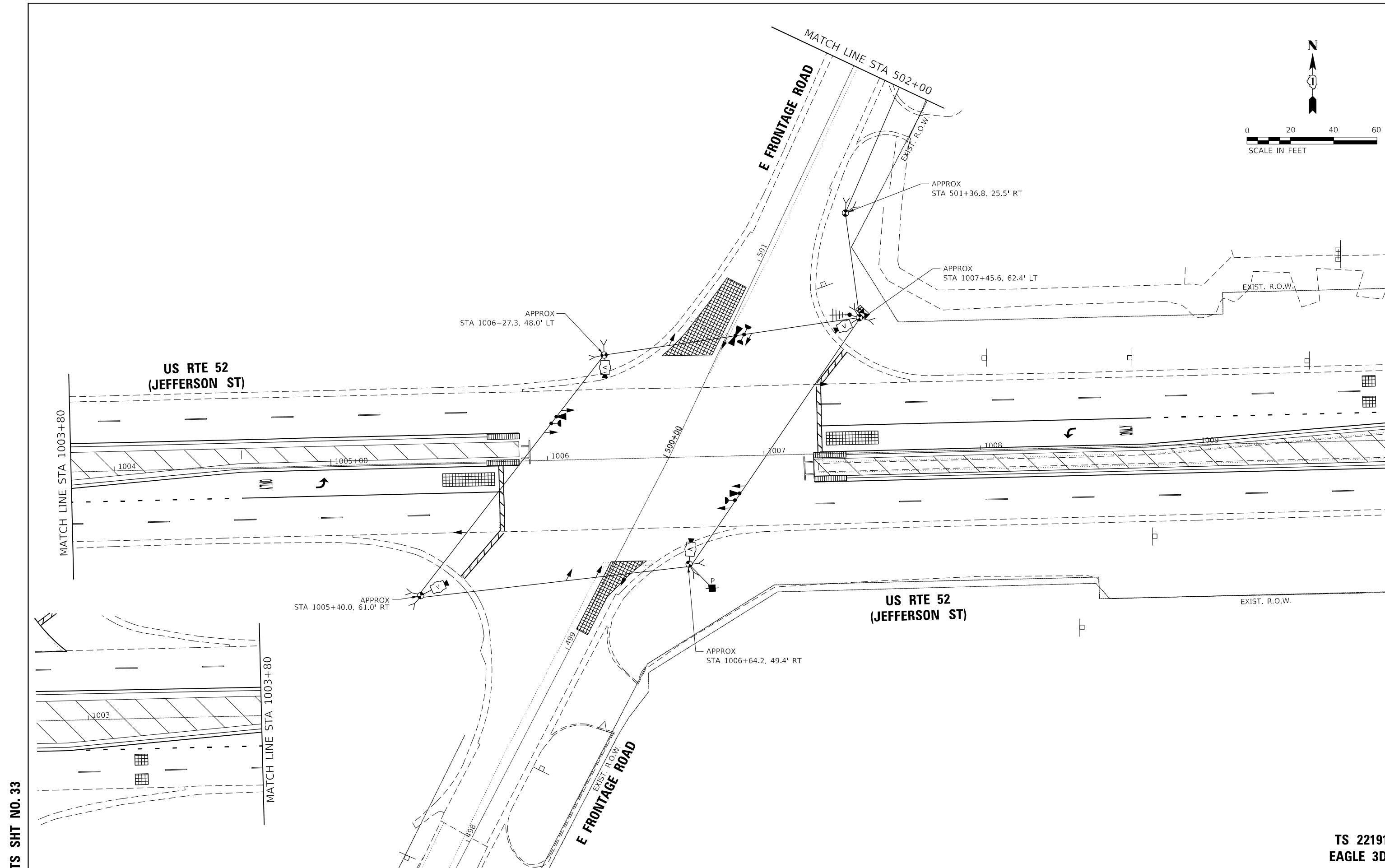
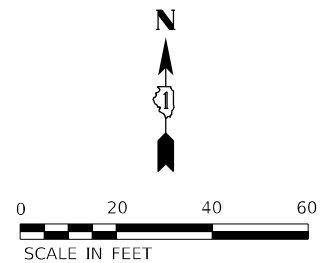
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PRESTAGE TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND
 REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN - SHEET 2 OF 2
 US RTE 52 (JEFFERSON ST) AND EAST FRONTAGE RD**

SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
607	2018-075-B-R	WILL	280	167
				CONTRACT NO. 62H16
				ILLINOIS FED. AID PROJECT

**TS 22191
 EAGLE 3D**

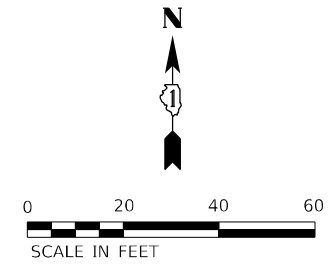
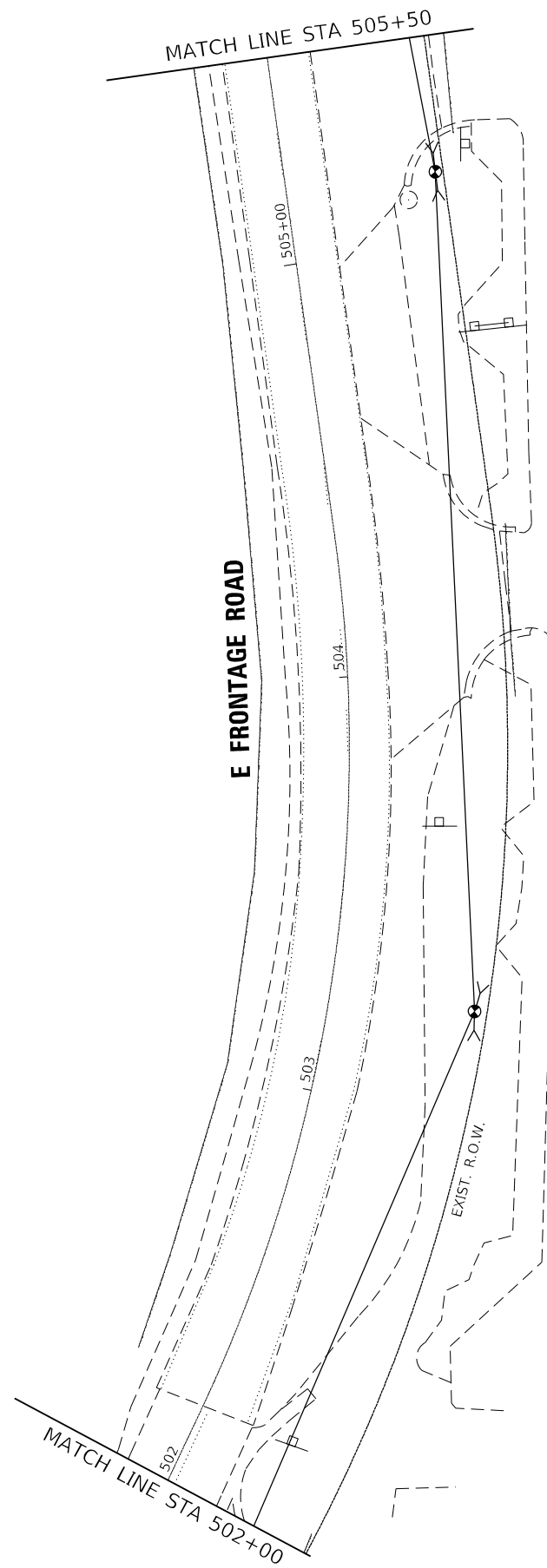
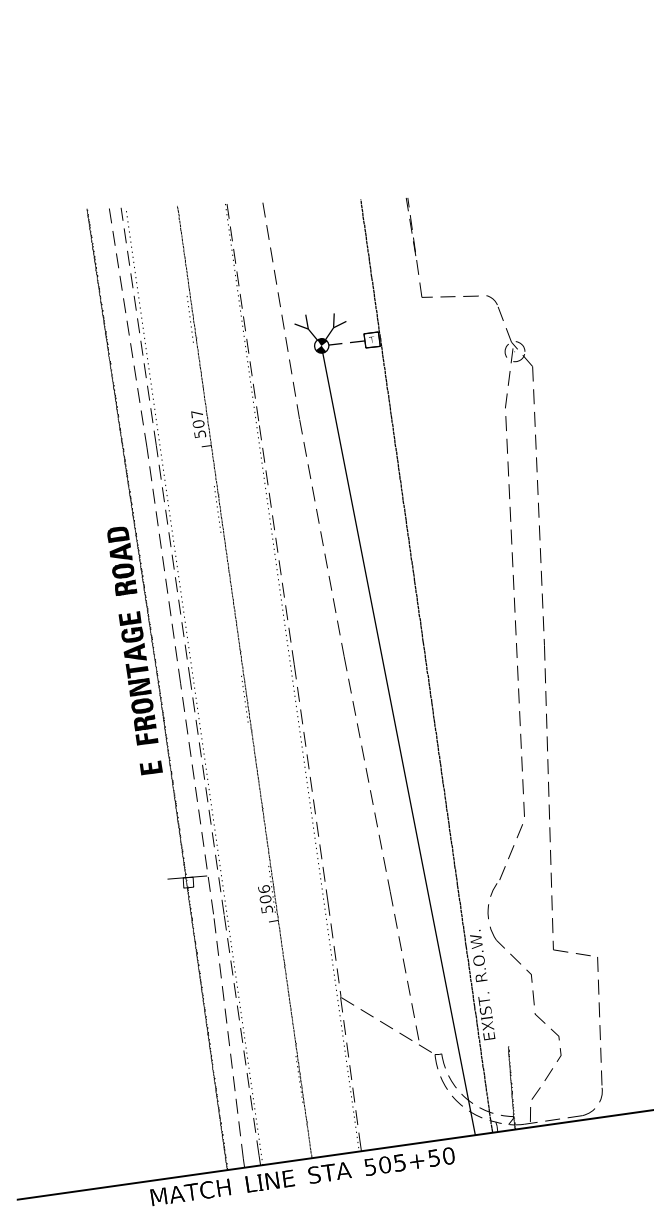


TS SHT NO. 33

**TS 22191
EAGLE 3D**

AMES Engineering, Inc. CONSULTING ENGINEERS 6330 Belmont Road, Suite 4B Downers Grove, IL 60516	USER NAME = mdelriche	DESIGNED - TM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE 1 TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN SHEET 1 OF 2 US RTE 52 (JEFFERSON ST) AND EAST FRONTAGE RD			F.A.P. RTE. = 607	SECTION = 2018-075-B-R	COUNTY = WILL	TOTAL SHEETS = 280	SHEET NO. = 168
	PLOT SCALE = 40,0000 ' / in.	CHECKED - AS	REVISED -		SCALE: 1" = 20'	SHEET OF SHEETS	STA. TO STA.	CONTRACT NO. 62H16				
	PLOT DATE = 3/11/2022	DATE - 02-28-22	REVISED -		ILLINOIS FED. AID PROJECT							

TS SHT NO. 34



AMES Engineering, Inc.
 CONSULTING ENGINEERS
 6330 Belmont Road, Suite 4B
 Downers Grove, IL 60516

USER NAME = mde@tche	DESIGNED - TM	REVISED -
	DRAWN - TM	REVISED -
PLOT SCALE = 40,0000' / in.	CHECKED - AS	REVISED -
PLOT DATE = 3/11/2022	DATE - 02-28-22	REVISED -

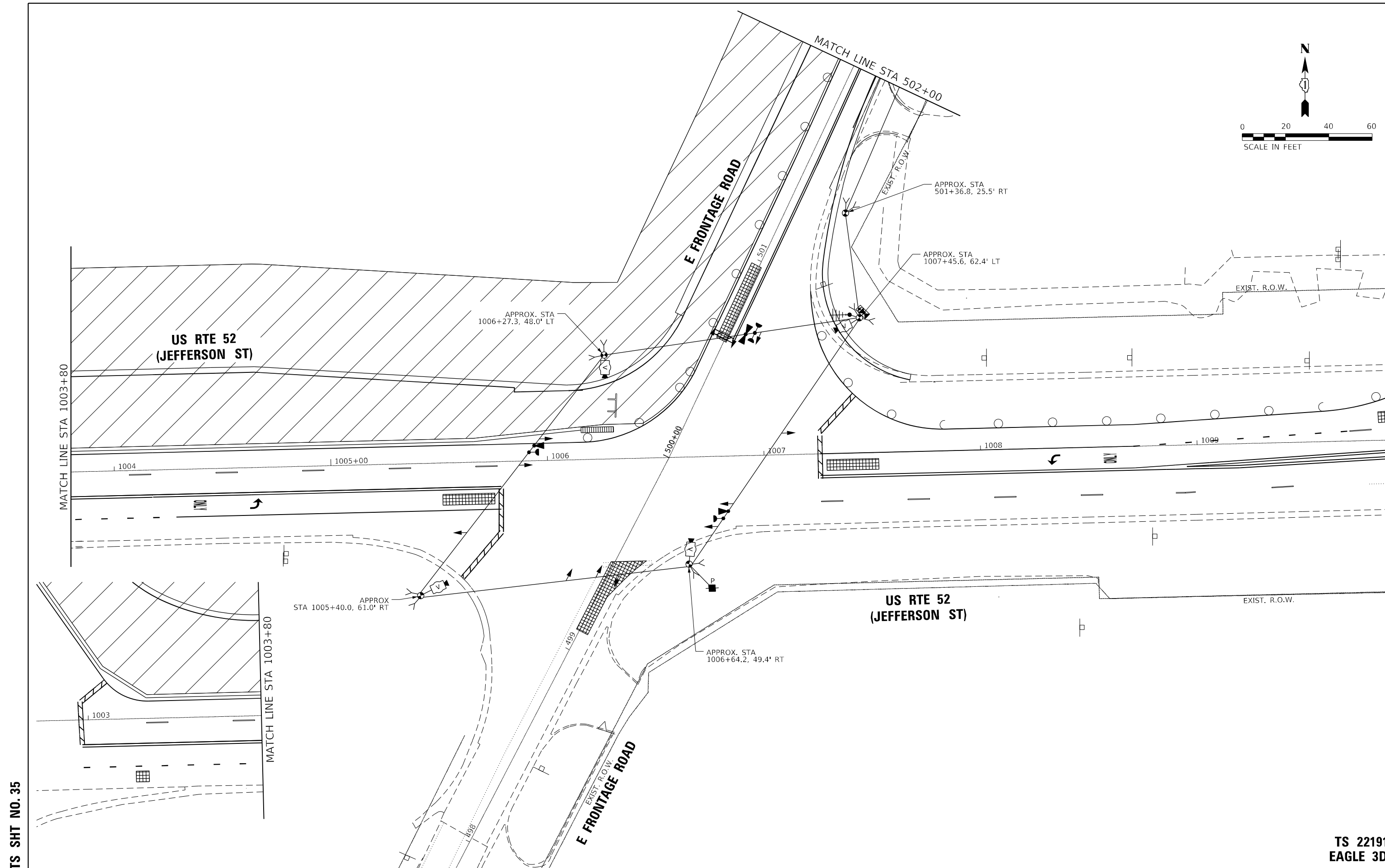
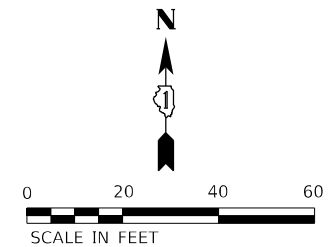
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**STAGE 1 TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
 SHEET 2 OF 2
 US RTE 52 (JEFFERSON ST) AND EAST FRONTAGE RD**

SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
607	2018-075-B-R	WILL	280	169
			CONTRACT NO. 62H16	
		ILLINOIS	FED. AID PROJECT	

**TS 22191
 EAGLE 3D**

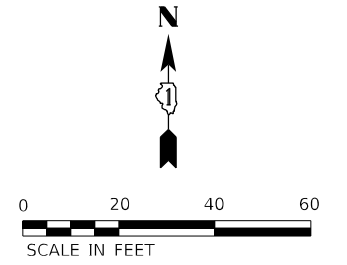
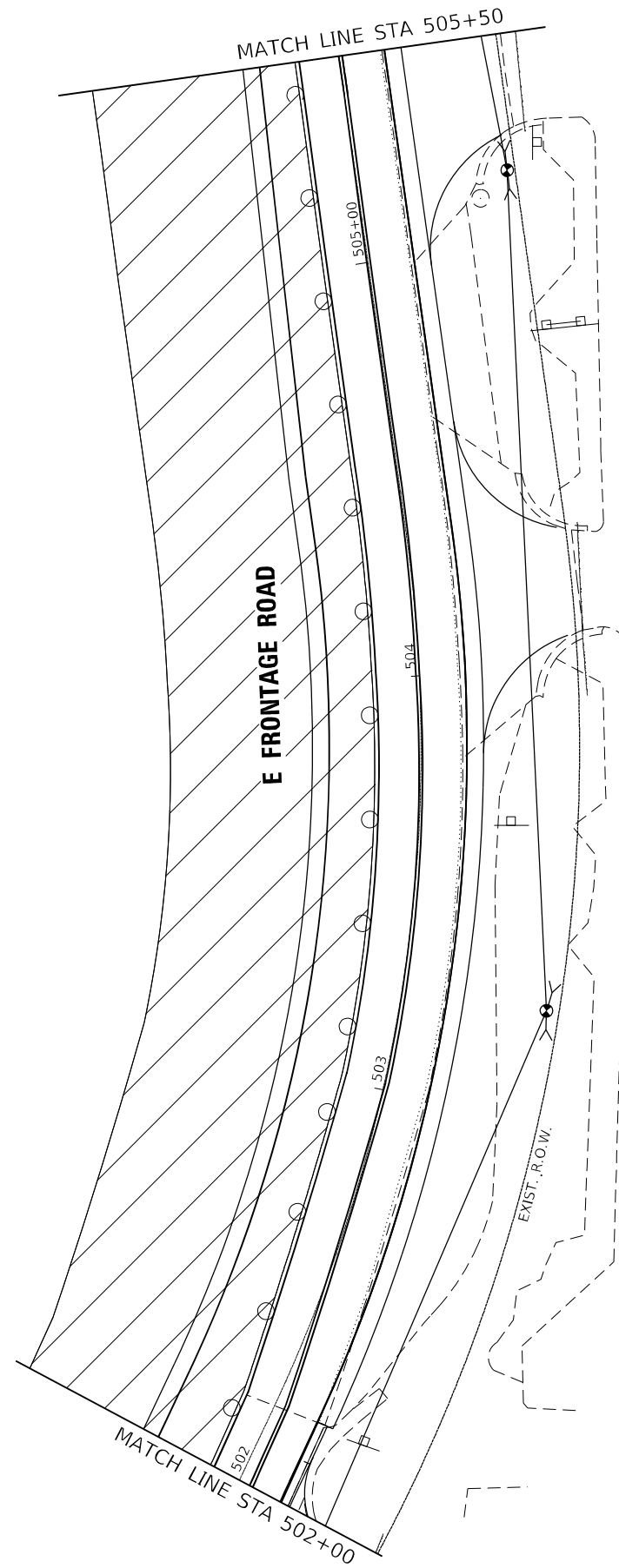
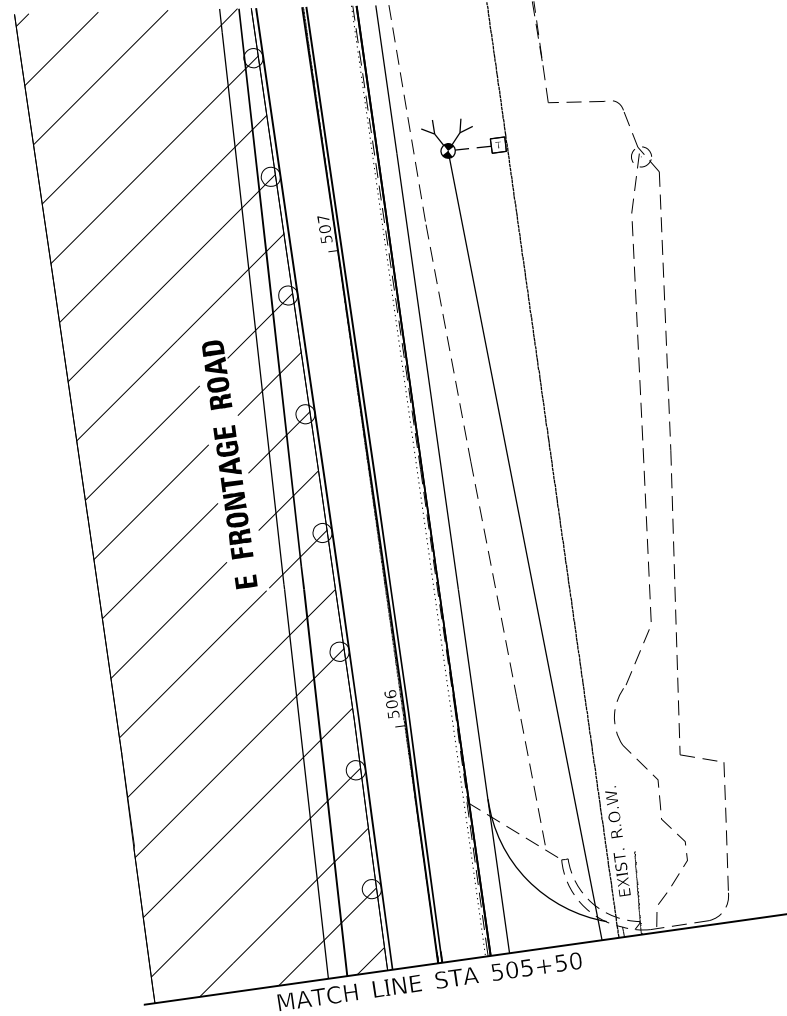


TS SHT NO. 35

**TS 22191
EAGLE 3D**

AMES Engineering, Inc. CONSULTING ENGINEERS 6330 Belmont Road, Suite 4B Downers Grove, IL 60516	USER NAME = mde@tche	DESIGNED - TM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE 2A TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN SHEET 1 OF 2 US RTE 52 (JEFFERSON ST) AND EAST FRONTAGE RD				F.A.P. RTE. 607	SECTION 2018-075-B-R	COUNTY WILL	TOTAL SHEETS 280	SHEET NO. 170
	PLOT SCALE = 40,0000' / in.	CHECKED - AS	REVISED -		SCALE: 1" = 20'	SHEET	OF	SHEETS	STA.	TO STA.	CONTRACT NO. 62H16		
	PLOT DATE = 3/11/2022	DATE - 02-28-22	REVISED -		ILLINOIS FED. AID PROJECT								

TS SHT NO. 36



AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

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PLOT SCALE = 40,0000' / in.	CHECKED - AS	REVISED -
PLOT DATE = 3/11/2022	DATE - 02-28-22	REVISED -

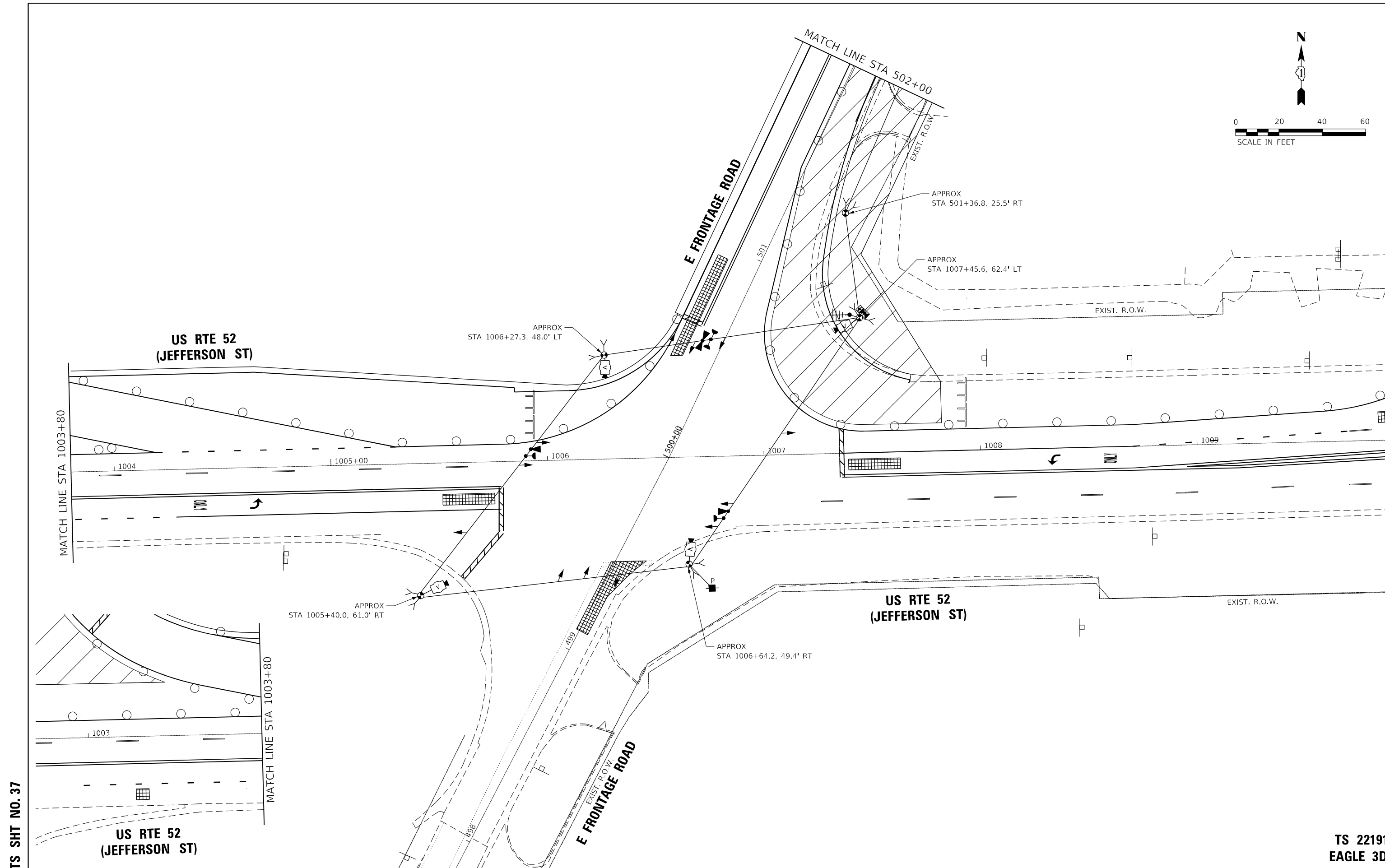
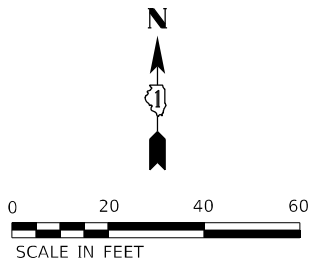
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE 2A TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
SHEET 2 OF 2
US RTE 52 (JEFFERSON ST) AND EAST FRONTAGE RD**

SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
607	2018-075-B-R	WILL	280	171
			CONTRACT NO. 62H16	
			ILLINOIS FED. AID PROJECT	

**TS 22191
EAGLE 3D**



TS SHT NO. 37

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = mdelriche	DESIGNED - TM	REVISED -
PLOT SCALE = 40,0000' / in.	DRAWN - TM	REVISED -
PLOT DATE = 3/11/2022	CHECKED - AS	REVISED -
	DATE - 02-28-22	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

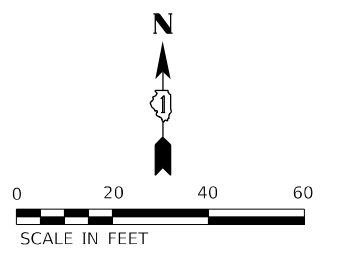
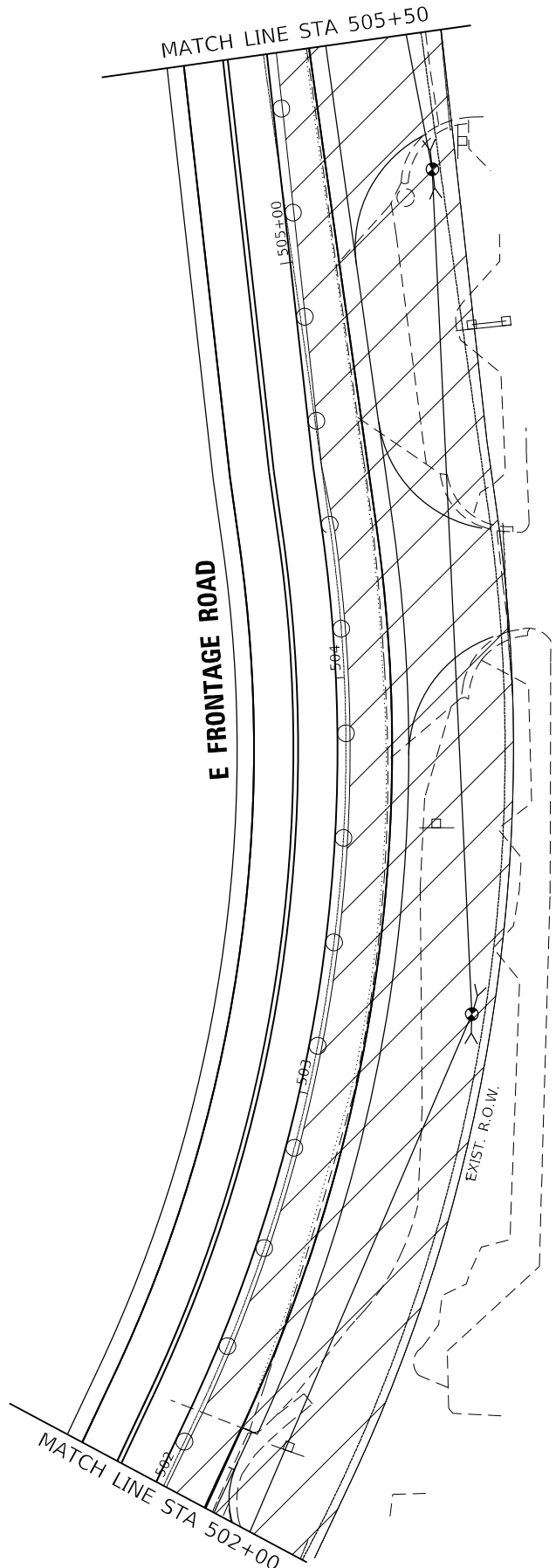
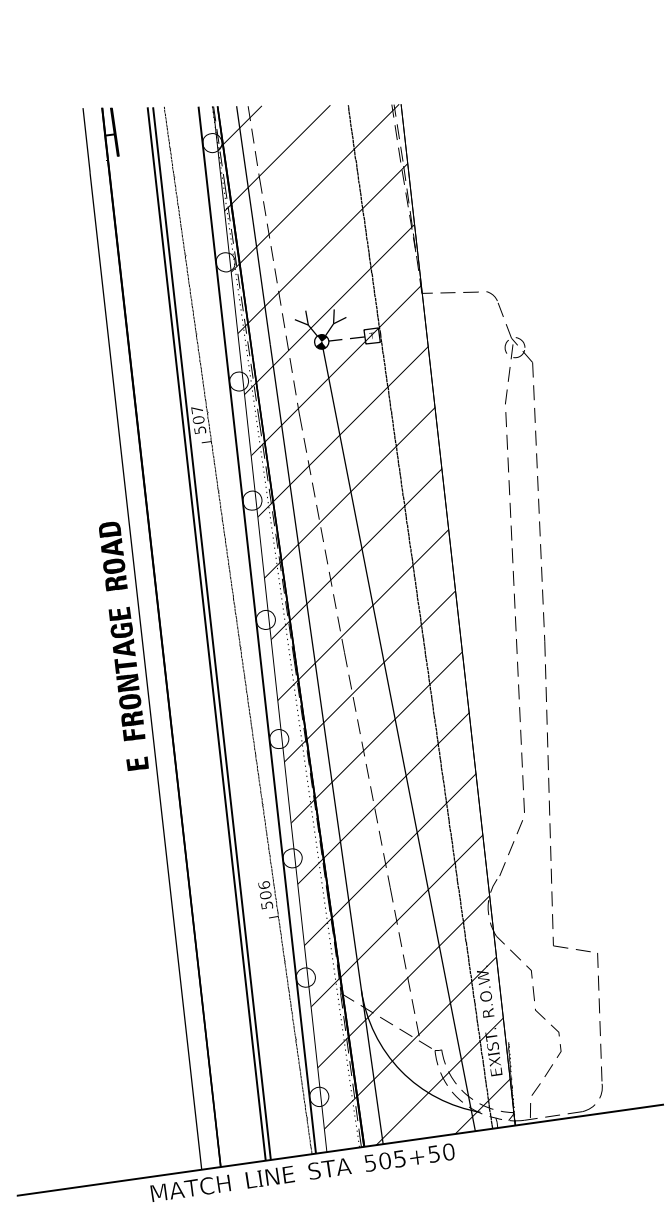
**STAGE 2B TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
SHEET 1 OF 2
US RTE 52 (JEFFERSON ST) AND EAST FRONTAGE RD**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
607	2018-075-B-R	WILL	280	172
			CONTRACT NO. 62H16	
ILLINOIS FED. AID PROJECT				

**TS 22191
EAGLE 3D**

SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

TS SHT NO. 38



AMES Engineering, Inc.
 CONSULTING ENGINEERS
 6330 Belmont Road, Suite 4B
 Downers Grove, IL 60516

USER NAME = mde@tche	DESIGNED - TM	REVISED -
	DRAWN - TM	REVISED -
PLOT SCALE = 40,0000' / in.	CHECKED - AS	REVISED -
PLOT DATE = 3/11/2022	DATE - 02-28-22	REVISED -

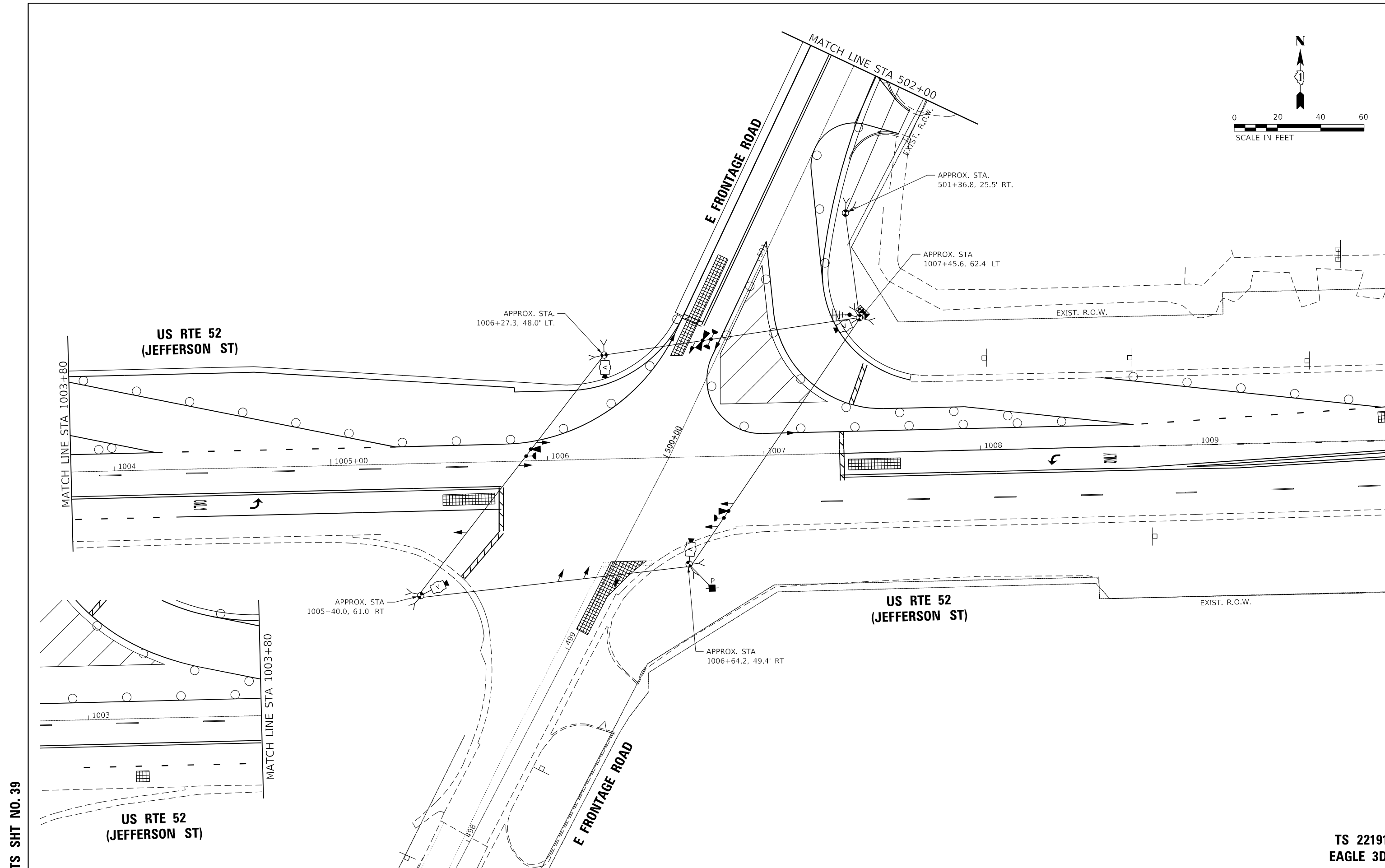
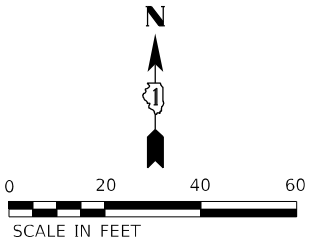
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**STAGE 2B TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
 SHEET 2 OF 2
 US RTE 52 (JEFFERSON ST) AND EAST FRONTAGE RD**

SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
607	2018-075-B-R	WILL	280	173
			CONTRACT NO. 62H16	
ILLINOIS FED. AID PROJECT				

**TS 22191
 EAGLE 3D**



TS SHT NO. 39

**TS 22191
EAGLE 3D**

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = mdelriche	DESIGNED - TM	REVISED -
DRAWN - TM	REVISOR -	
PLOT SCALE = 40,0000 ' / in.	CHECKED - AS	REVISOR -
PLOT DATE = 3/11/2022	DATE - 02-28-22	REVISOR -

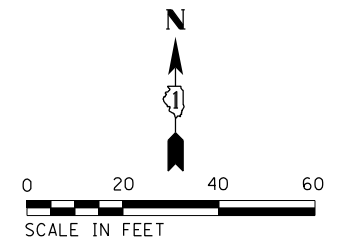
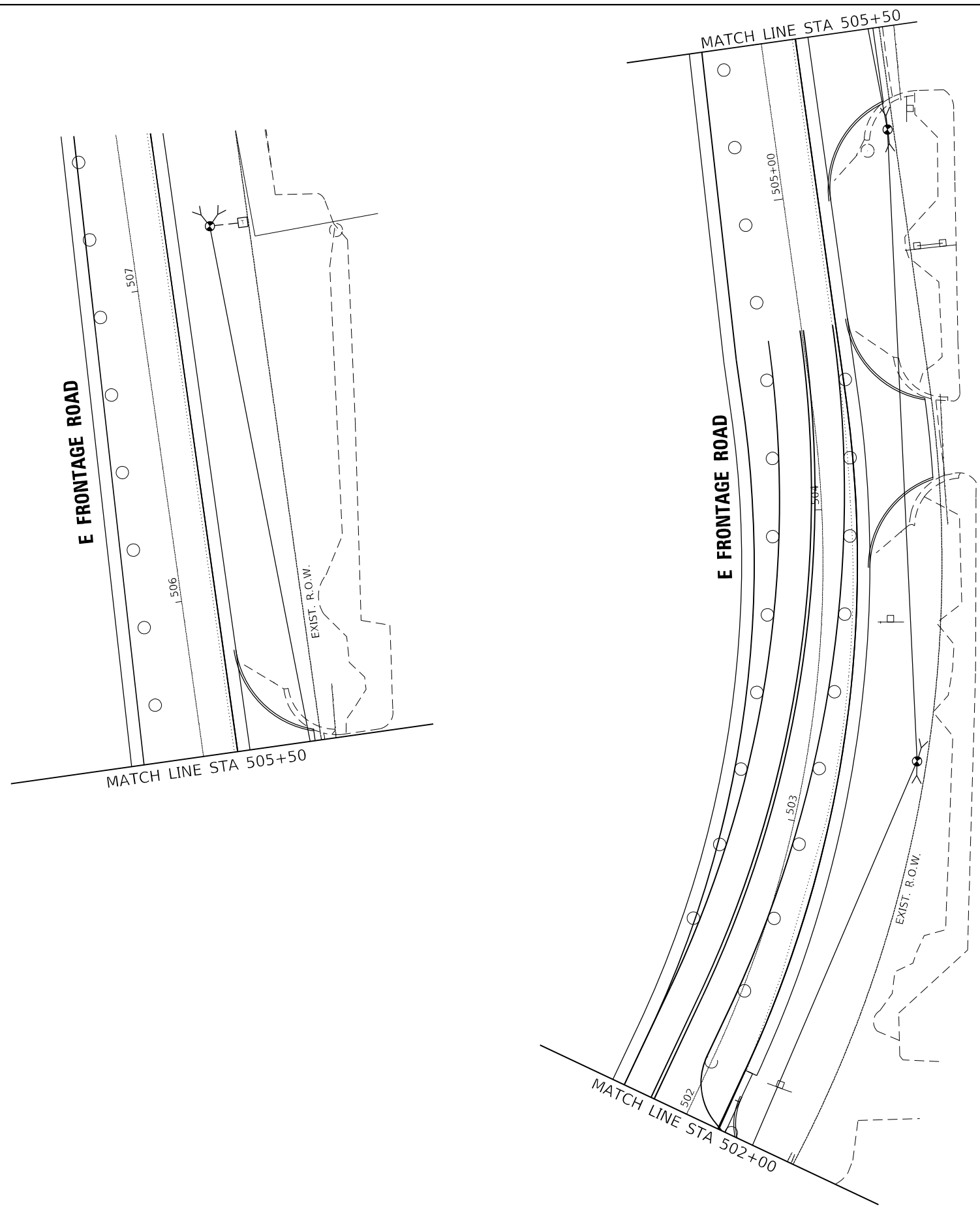
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE 2C TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
SHEET 1 OF 2
US RTE 52 (JEFFERSON ST) AND EAST FRONTAGE RD**

SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
607	2018-075-B-R	WILL	280	174
				CONTRACT NO. 62H16
ILLINOIS FED. AID PROJECT				

TS SHT NO. 40



AMES Engineering, Inc.
 CONSULTING ENGINEERS
 6330 Belmont Road, Suite 4B
 Downers Grove, IL 60516

USER NAME = mdelitche	DESIGNED - TM	REVISED -
	DRAWN - TM	REVISED -
PLOT SCALE = 40,0000' / in.	CHECKED - AS	REVISED -
PLOT DATE = 3/11/2022	DATE - 02-28-22	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 2C TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
SHEET 2 OF 2
US RTE 52 (JEFFERSON ST) AND EAST FRONTAGE RD
 SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
607	2018-075-B-R	WILL	280	175
			CONTRACT NO. 62H16	
ILLINOIS FED. AID PROJECT				

TS 22191
EAGLE 3D

US RTE 52
(JEFFERSON ST)

MATCH LINE STA 1003+80

MATCH LINE STA 502+00

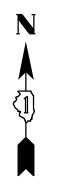
E FRONTAGE ROAD

US RTE 52
(JEFFERSON ST)

MATCH LINE STA 1003+80

US RTE 52
(JEFFERSON ST)

E FRONTAGE ROAD



APPROX. STA.
501+36.8, 25.5' RT

APPROX. STA.
1007+45.6, 62.4' LT

APPROX. STA.
1006+27.3, 48.0' LT

APPROX.
STA 1005+40, 61.0' RT

APPROX. STA.
1006+64.2, 49.4' RT

TS SHT NO. 41

TS 22191
EAGLE 3D

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CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

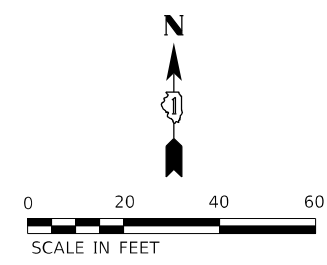
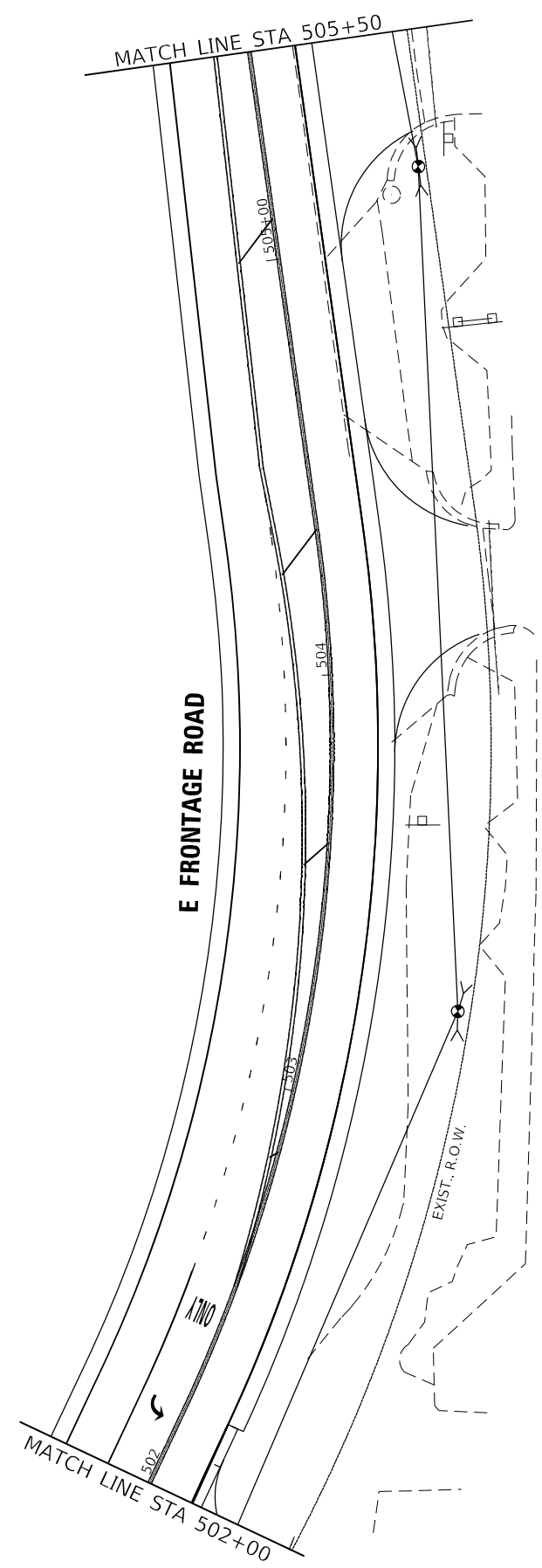
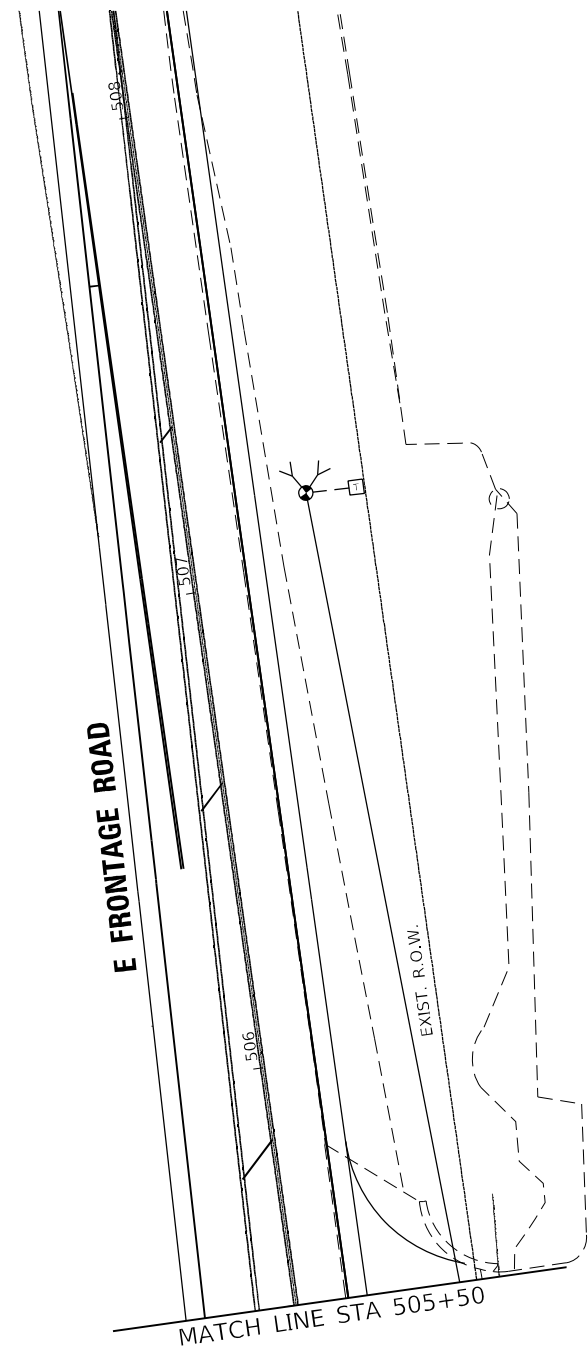
USER NAME = mdelriche	DESIGNED - TM	REVISED -
	DRAWN - TM	REVISED -
PLOT SCALE = 40,0000' / in.	CHECKED - AS	REVISED -
PLOT DATE = 3/11/2022	DATE - 02-28-22	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 3A TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
SHEET 1 OF 2
US RTE 52 (JEFFERSON ST) AND EAST FRONTAGE RD
SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
607	2018-075-B-R	WILL	280	176
				CONTRACT NO. 62H16
ILLINOIS FED. AID PROJECT				

TS SHT NO. 42



AMES Engineering, Inc.
 CONSULTING ENGINEERS
 6330 Belmont Road, Suite 4B
 Downers Grove, IL 60516

USER NAME = mdelriche	DESIGNED - TM	REVISED -
	DRAWN - TM	REVISED -
PLOT SCALE = 40,0000' / in.	CHECKED - AS	REVISED -
PLOT DATE = 3/11/2022	DATE - 02-28-22	REVISED -

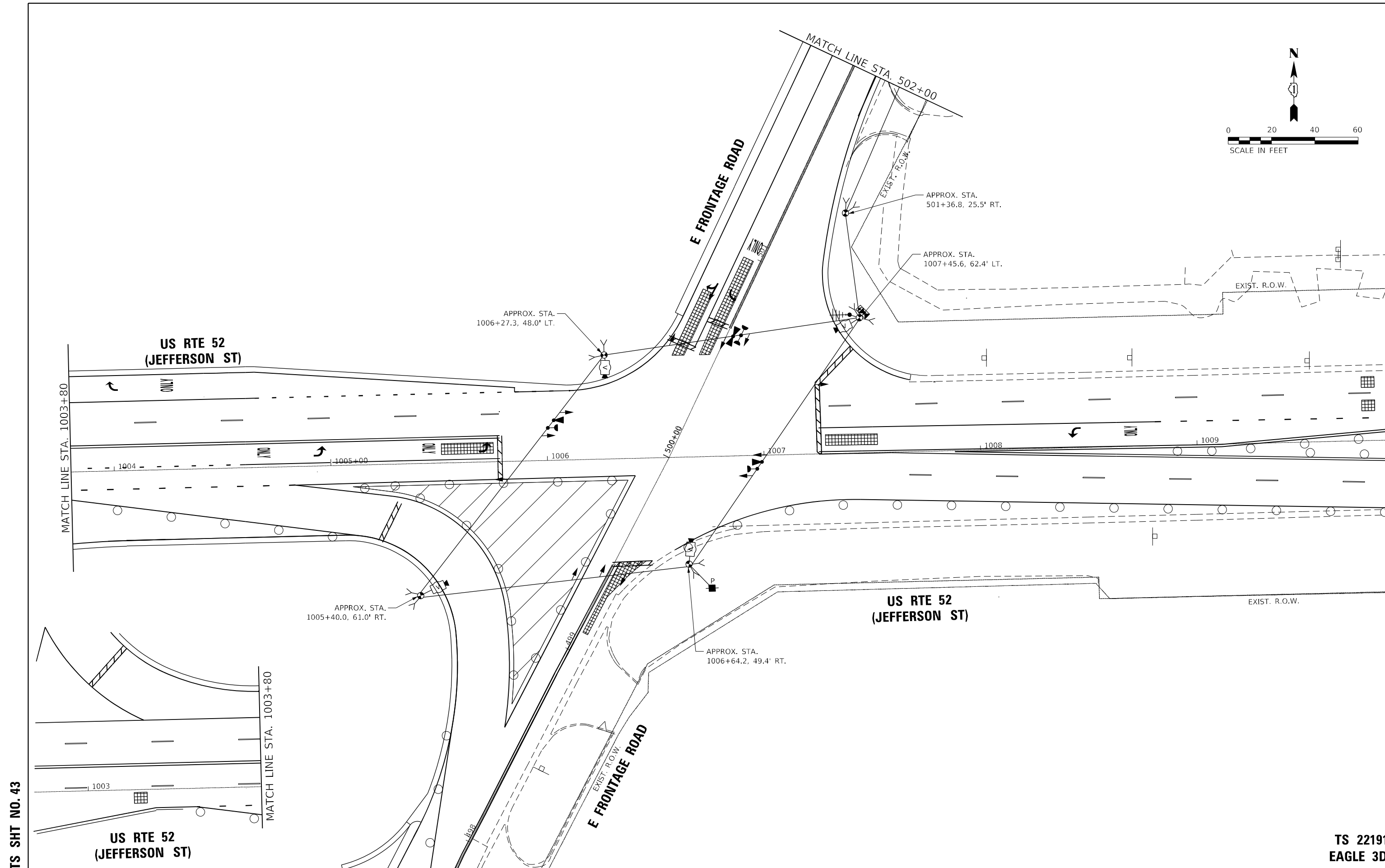
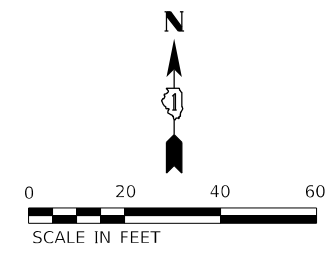
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**STAGE 3A TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
 SHEET 2 OF 2
 US RTE 52 (JEFFERSON ST) AND EAST FRONTAGE RD**

SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
607	2018-075-B-R	WILL	280	177
			CONTRACT NO. 62H16	
ILLINOIS FED. AID PROJECT				

**TS 22191
 EAGLE 3D**



TS SHT NO. 43

TS 22191
EAGLE 3D

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = mde@tche	DESIGNED - TM	REVISED -
DRAWN - TM	REVISED -	
PLOT SCALE = 40,0000' / in.	CHECKED - AS	REVISED -
PLOT DATE = 3/11/2022	DATE - 02-28-22	REVISED -

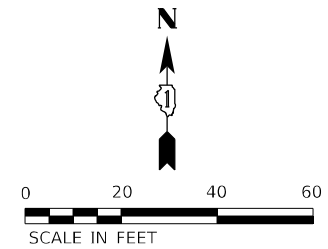
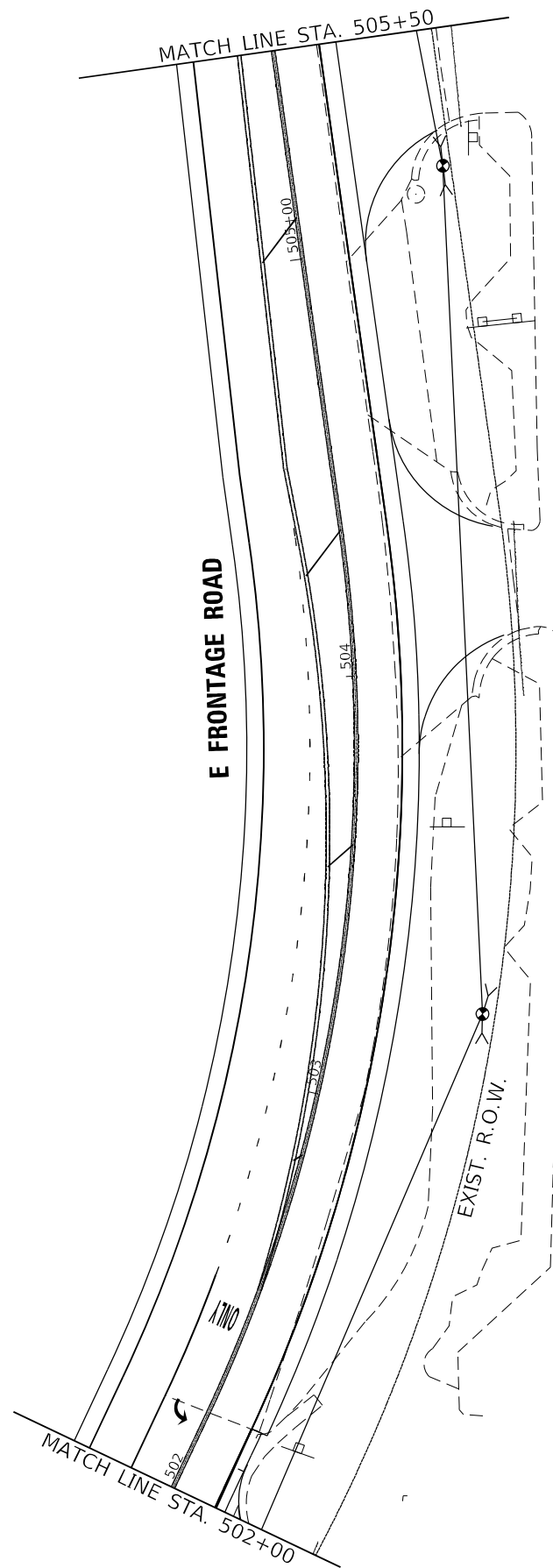
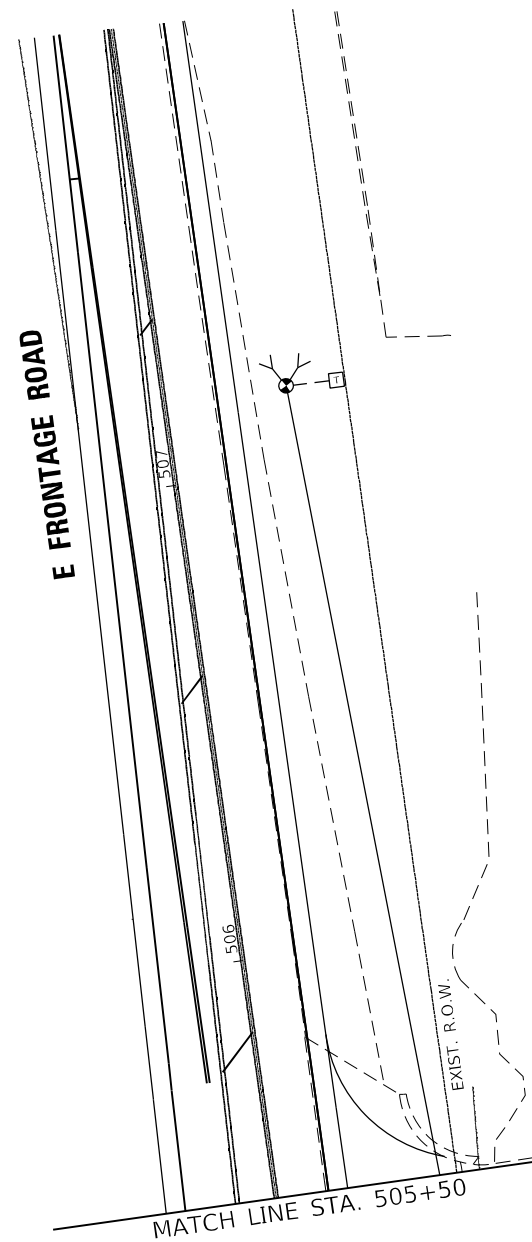
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE 3B TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
SHEET 1 OF 2
US RTE 52 (JEFFERSON ST) AND EAST FRONTAGE RD**

SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
607	2018-075-B-R	WILL	280	178
				CONTRACT NO. 62H16
ILLINOIS FED. AID PROJECT				

TS SHT NO. 44



AMES Engineering, Inc.
 CONSULTING ENGINEERS
 6330 Belmont Road, Suite 4B
 Downers Grove, IL 60516

USER NAME = mdelriche	DESIGNED - TM	REVISED -
	DRAWN - TM	REVISED -
PLOT SCALE = 40,0000' / in.	CHECKED - AS	REVISED -
PLOT DATE = 3/11/2022	DATE - 02-28-22	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

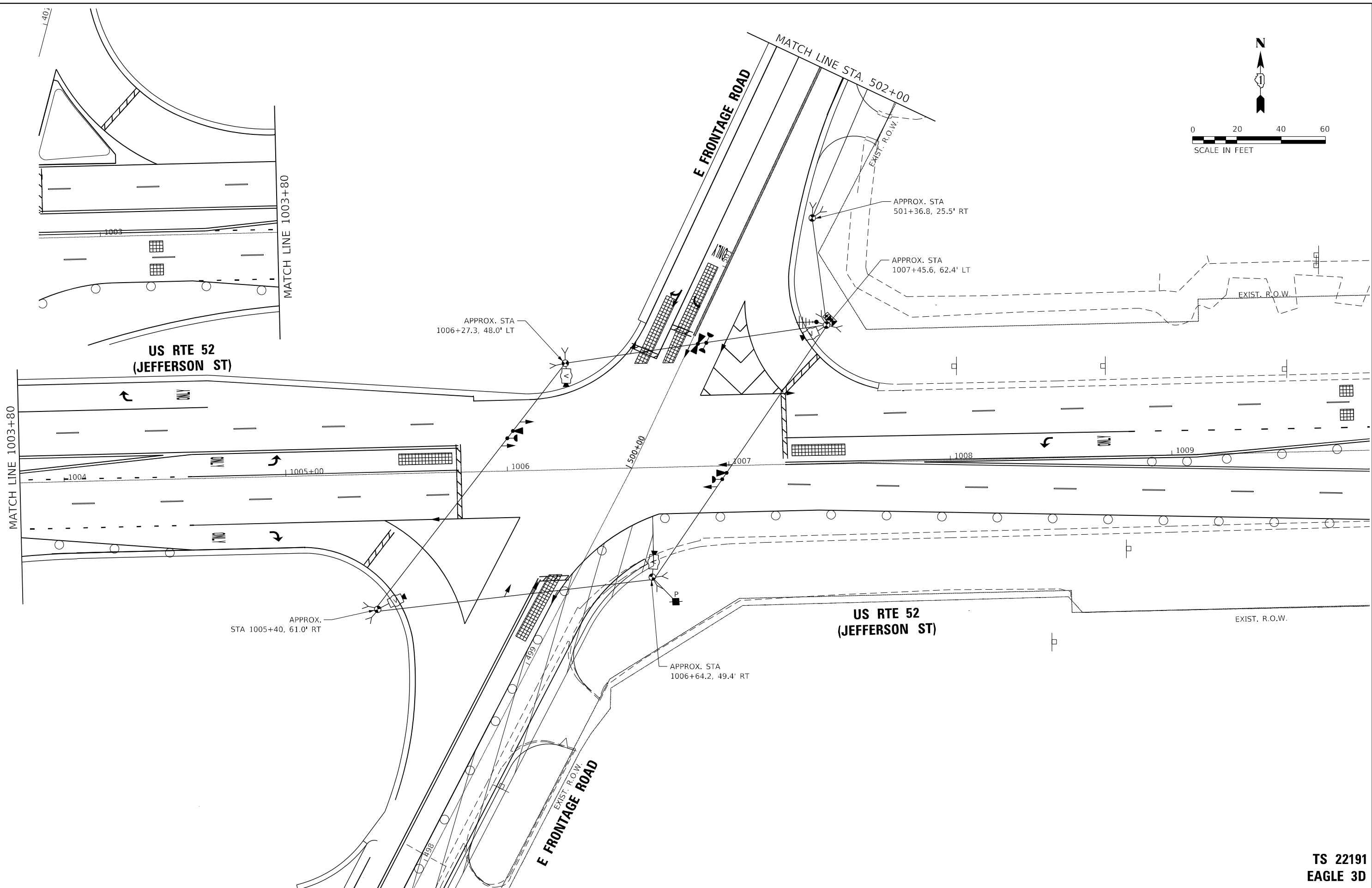
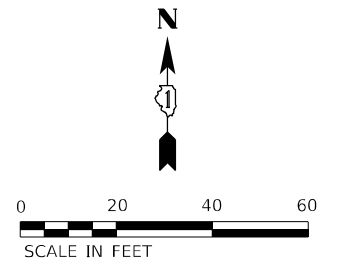
**STAGE 3B TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
 SHEET 2 OF 2
 US RTE 52 (JEFFERSON ST) AND EAST FRONTAGE RD**

SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
607	2018-075-B-R	WILL	280	179
			CONTRACT NO. 62H16	
			ILLINOIS FED. AID PROJECT	

**TS 22191
 EAGLE 3D**

TS SHT NO. 45



AMES Engineering, Inc.
 CONSULTING ENGINEERS
 6330 Belmont Road, Suite 4B
 Downers Grove, IL 60516

USER NAME = mdelrche	DESIGNED - TM	REVISD -
DRAWN - TM	REVISD -	
PLOT SCALE = 40,0000' / in.	CHECKED - AS	REVISD -
PLOT DATE = 3/11/2022	DATE - 02-28-22	REVISD -

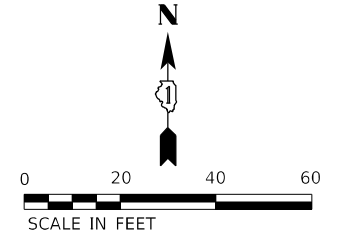
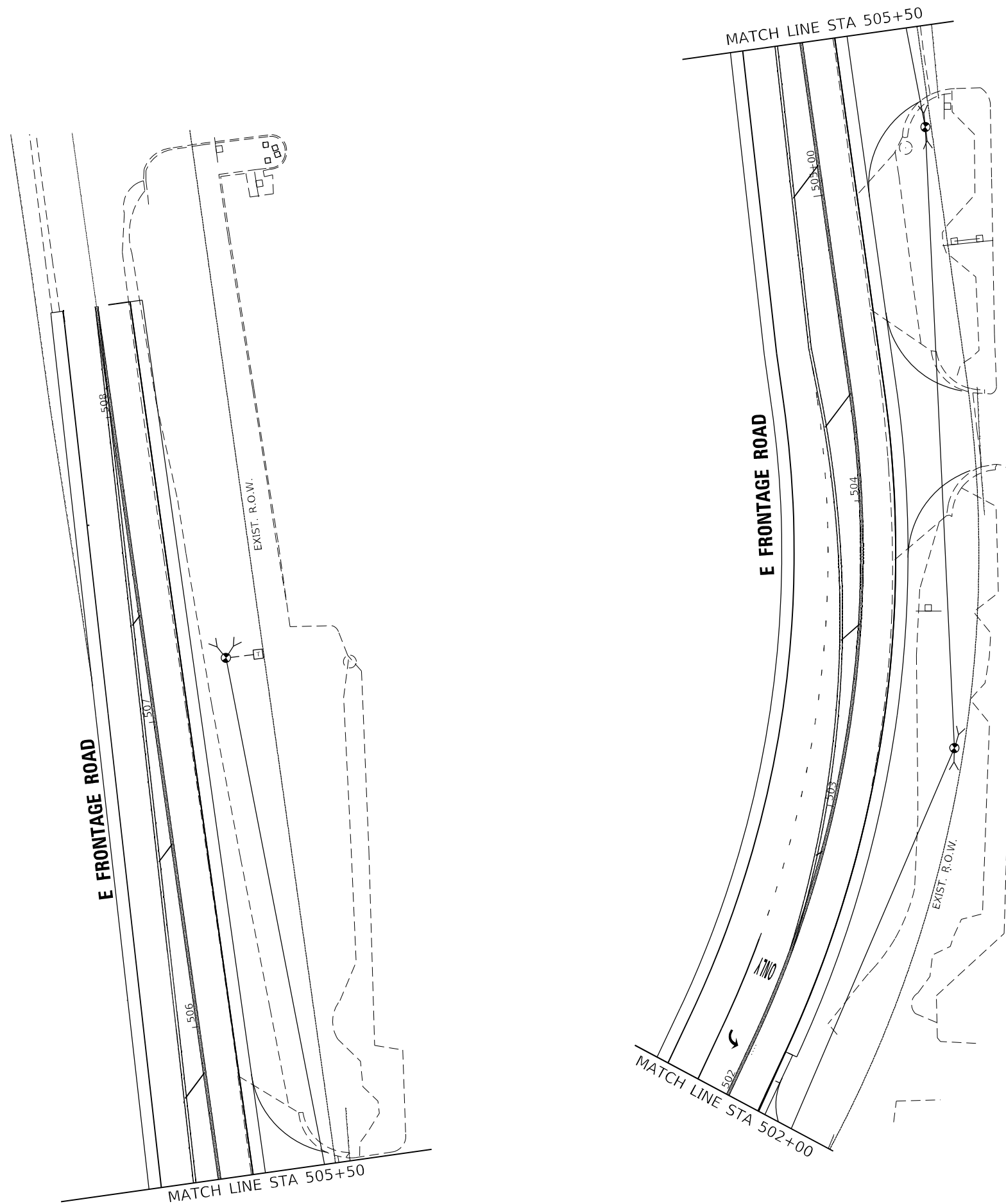
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 3C TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
SHEET 1 OF 2
US RTE 52 (JEFFERSON ST) AND EAST FRONTAGE RD

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
607	2018-075-B-R	WILL	280	180
				CONTRACT NO. 62H16
ILLINOIS FED. AID PROJECT				

TS 22191
EAGLE 3D

TS SHT NO. 46



AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = mdelrche	DESIGNED - TM	REVISED -
DRAWN - TM	REVISOR -	
PLOT SCALE = 40,0000' / in.	CHECKED - AS	REVISOR -
PLOT DATE = 3/11/2022	DATE - 02-28-22	REVISOR -

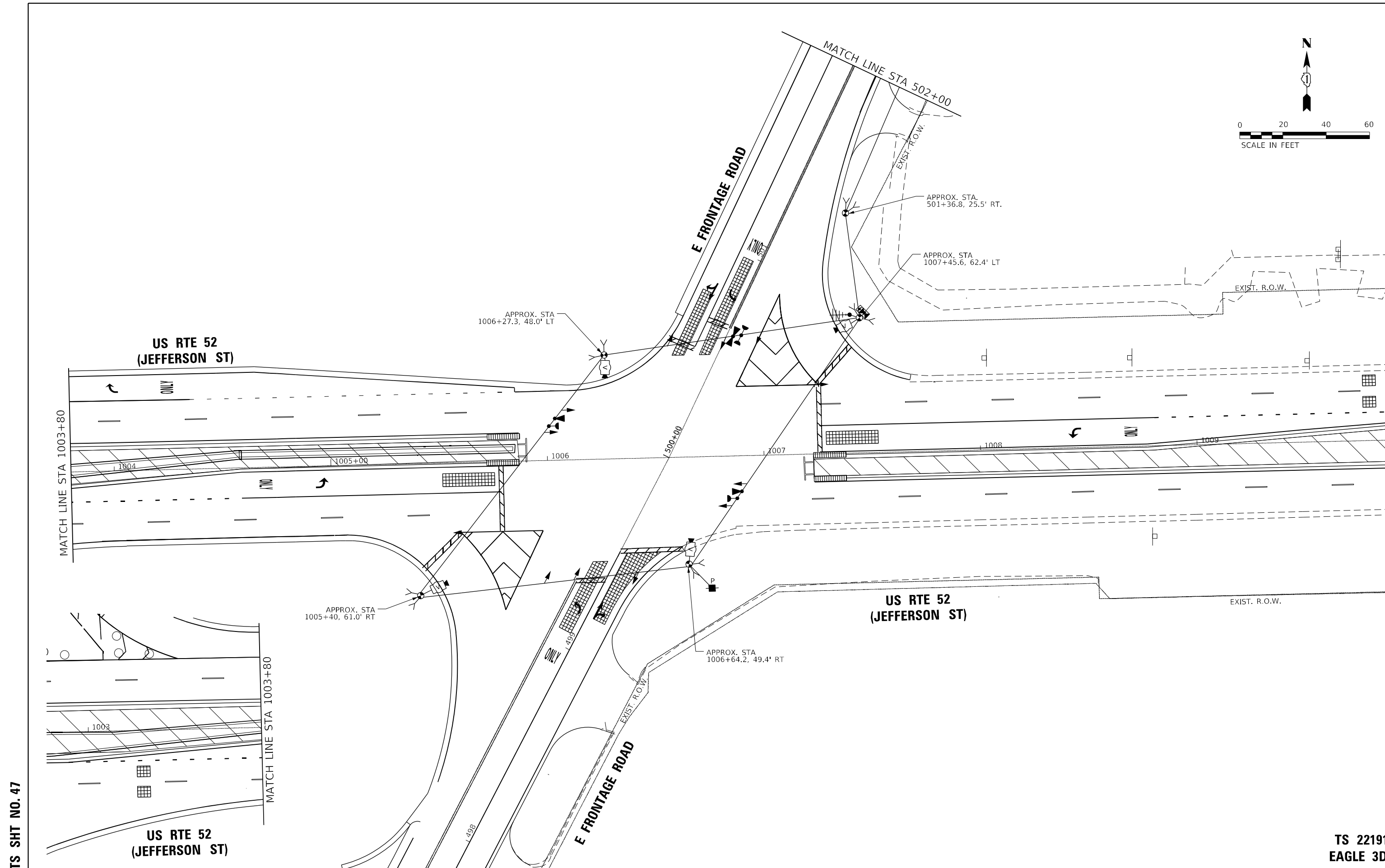
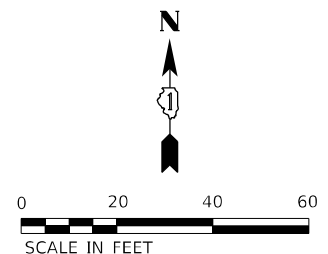
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE 3C TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
SHEET 2 OF 2
US RTE 52 (JEFFERSON ST) AND EAST FRONTAGE RD**

SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
607	2018-075-B-R	WILL	280	181
CONTRACT NO. 62H16			ILLINOIS FED. AID PROJECT	

**TS 22191
EAGLE 3D**

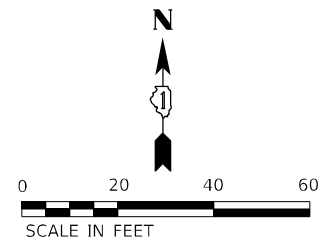
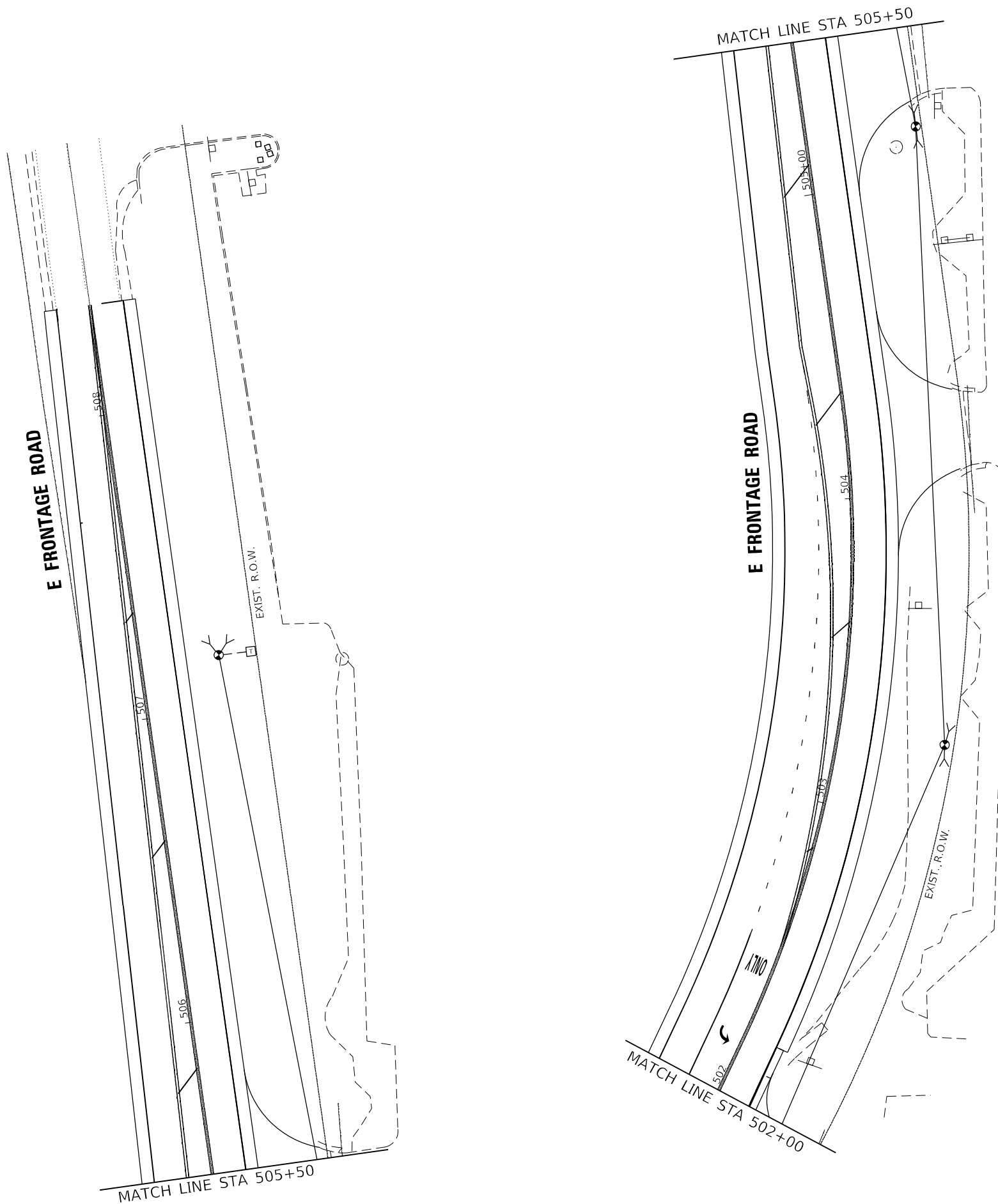


TS SHT NO. 47

TS 22191
EAGLE 3D

AMES Engineering, Inc. CONSULTING ENGINEERS 6330 Belmont Road, Suite 4B Downers Grove, IL 60516	USER NAME = mdelriche	DESIGNED - TM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE 4 TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN SHEET 1 OF 2 US RTE 52 (JEFFERSON ST) AND EAST FRONTAGE RD	F.A.P. RTE. = 607	SECTION = 2018-075-B-R	COUNTY = WILL	TOTAL SHEETS = 280	SHEET NO. = 182		
	PLOT SCALE = 40,0000' / in.	CHECKED - AS	REVISED -			SCALE: 1" = 20'	SHEET OF SHEETS	STA. TO STA.	CONTRACT NO. 62H16			
	PLOT DATE = 3/11/2022	DATE = 02-28-22	REVISED -			ILLINOIS FED. AID PROJECT						

TS SHT NO. 48



AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = mde@che	DESIGNED - TM	REVISED -
	DRAWN - TM	REVISED -
PLOT SCALE = 40,0000' / in.	CHECKED - AS	REVISED -
PLOT DATE = 3/11/2022	DATE - 02-28-22	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

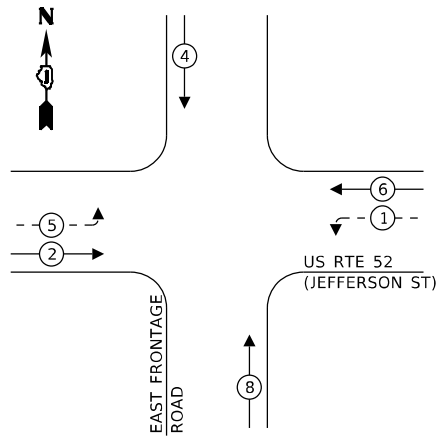
**STAGE 4 TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
SHEET 2 OF 2
US RTE 52 (JEFFERSON ST) AND EAST FRONTAGE RD**

SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
607	2018-075-B-R	WILL	280	183
				CONTRACT NO. 62H16
ILLINOIS FED. AID PROJECT				

**TS 22191
EAGLE 3D**

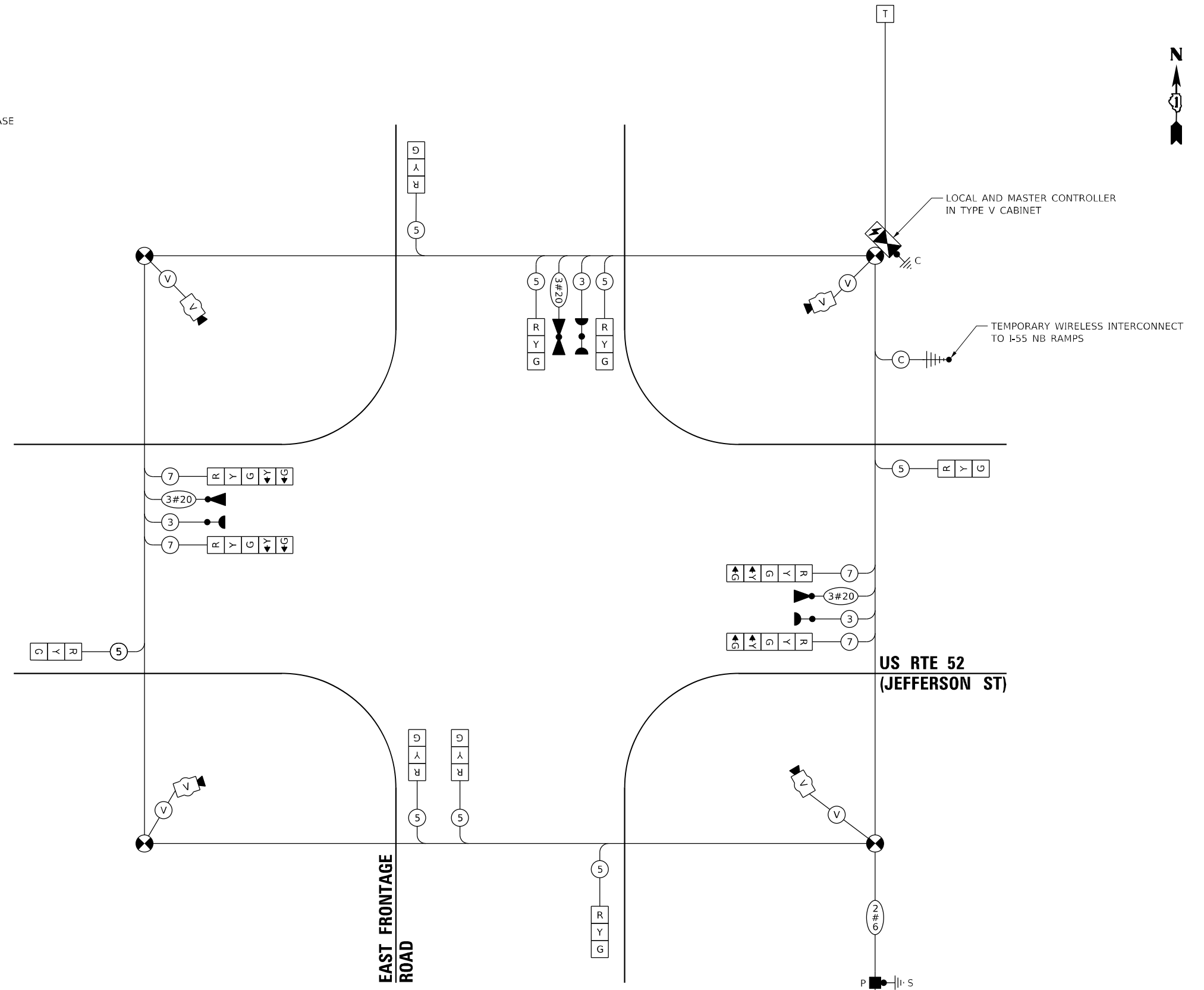
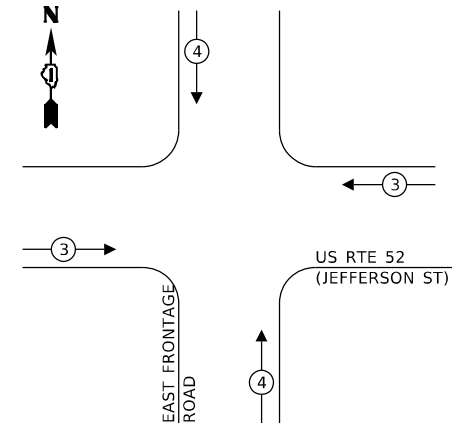
TEMPORARY CONTROLLER SEQUENCE



LEGEND:

- ← (⊛) ← PROTECTED PHASE
- ← (⊛) ← PROTECTED/PERMITTED PHASE
- ← (⊛) ← PEDESTRIAN PHASE
- ← (⊛) ← OVERLAP

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	13	11	50	66.0
(YELLOW)	13	20	5	12.0
(GREEN)	13	12	45	64.8
PERMISSIVE ARROW	8	10	10	8.0
PED. SIGNAL	-	20	100	0.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				425.8

ENERGY COSTS TO:

VILLAGE OF SHOREWOOD
ONE TOWNE CENTER BLVD.
SHOREWOOD, IL 60404

ENERGY SUPPLY: CONTACT: CHRISTY GOOSSENS
PHONE: (815) 724-5982
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: 58380-73023

TS SHT NO. 49

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = mid@tche	DESIGNED - TM	REVISED -
PLOT SCALE = 40,0000' / in.	DRAWN - TM	REVISED -
PLOT DATE = 3/11/2022	CHECKED - AS	REVISED -
	DATE - 02-28-22	REVISED -

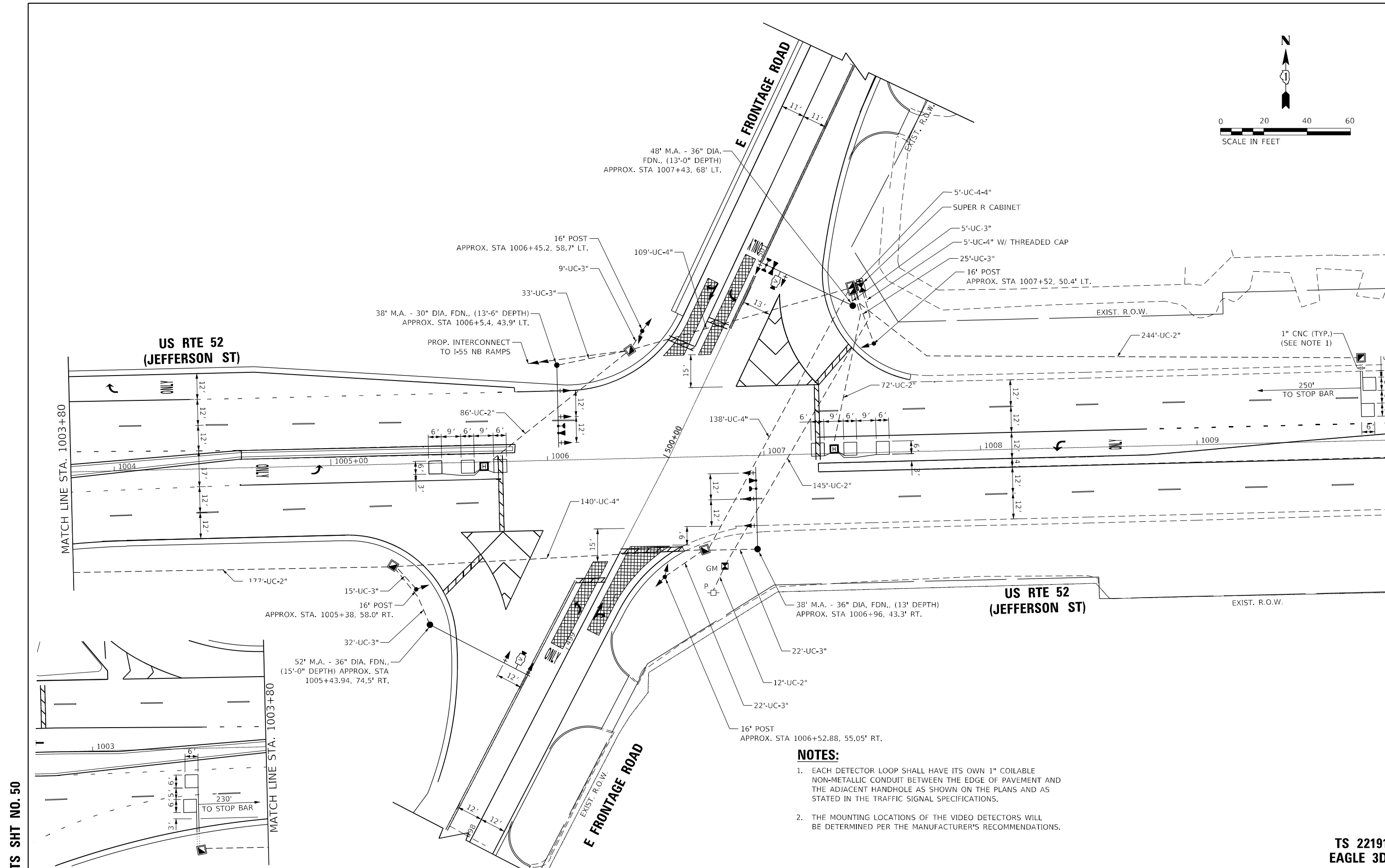
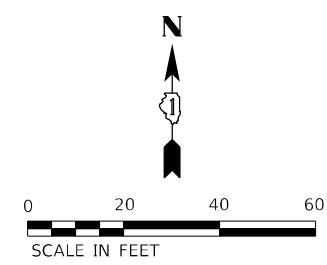
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALL STAGES TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION
DIAGRAM, AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
US RTE 52 (JEFFERSON ST) AND EAST FRONTAGE RD

SCALE: NTS SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 607	SECTION 2018-075-B-R	COUNTY WILL	TOTAL SHEETS 280	SHEET NO. 184
			CONTRACT NO. 62H16	
ILLINOIS FED. AID PROJECT				

TS 22191
EAGLE 3D



- NOTES:**
1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
 2. THE MOUNTING LOCATIONS OF THE VIDEO DETECTORS WILL BE DETERMINED PER THE MANUFACTURER'S RECOMMENDATIONS.

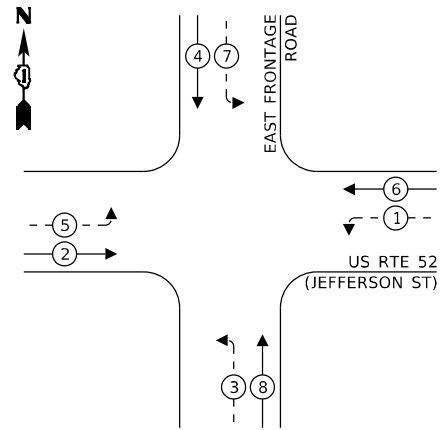
TS SHT NO. 50

TS 22191
EAGLE 3D

AMES Engineering, Inc. CONSULTING ENGINEERS 6330 Belmont Road, Suite 4B Downers Grove, IL 60516	USER NAME = mde@che	DESIGNED - TM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODERNIZATION PLAN US RTE 52 (JEFFERSON ST) AND EAST FRONTAGE RD	F.A.P. RTE. = 607	SECTION = 2018-075-B-R	COUNTY = WILL	TOTAL SHEETS = 280	SHEET NO. = 185	
	PLOT SCALE = 40,0000' / in.	CHECKED - AS	REVISED -			SCALE: 1" = 20'	SHEET OF SHEETS	STA. TO STA.	CONTRACT NO. 62H16		
	PLOT DATE = 3/11/2022	DATE = 02-28-22	REVISED -			ILLINOIS FED. AID PROJECT					



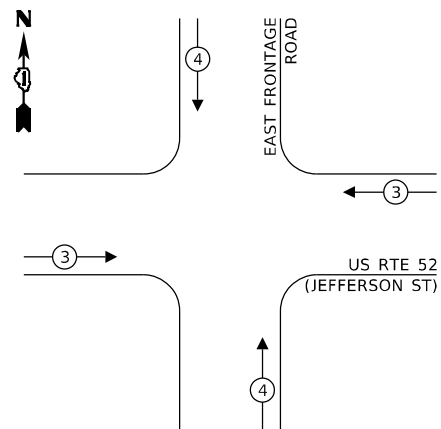
PROPOSED CONTROLLER SEQUENCE



LEGEND:

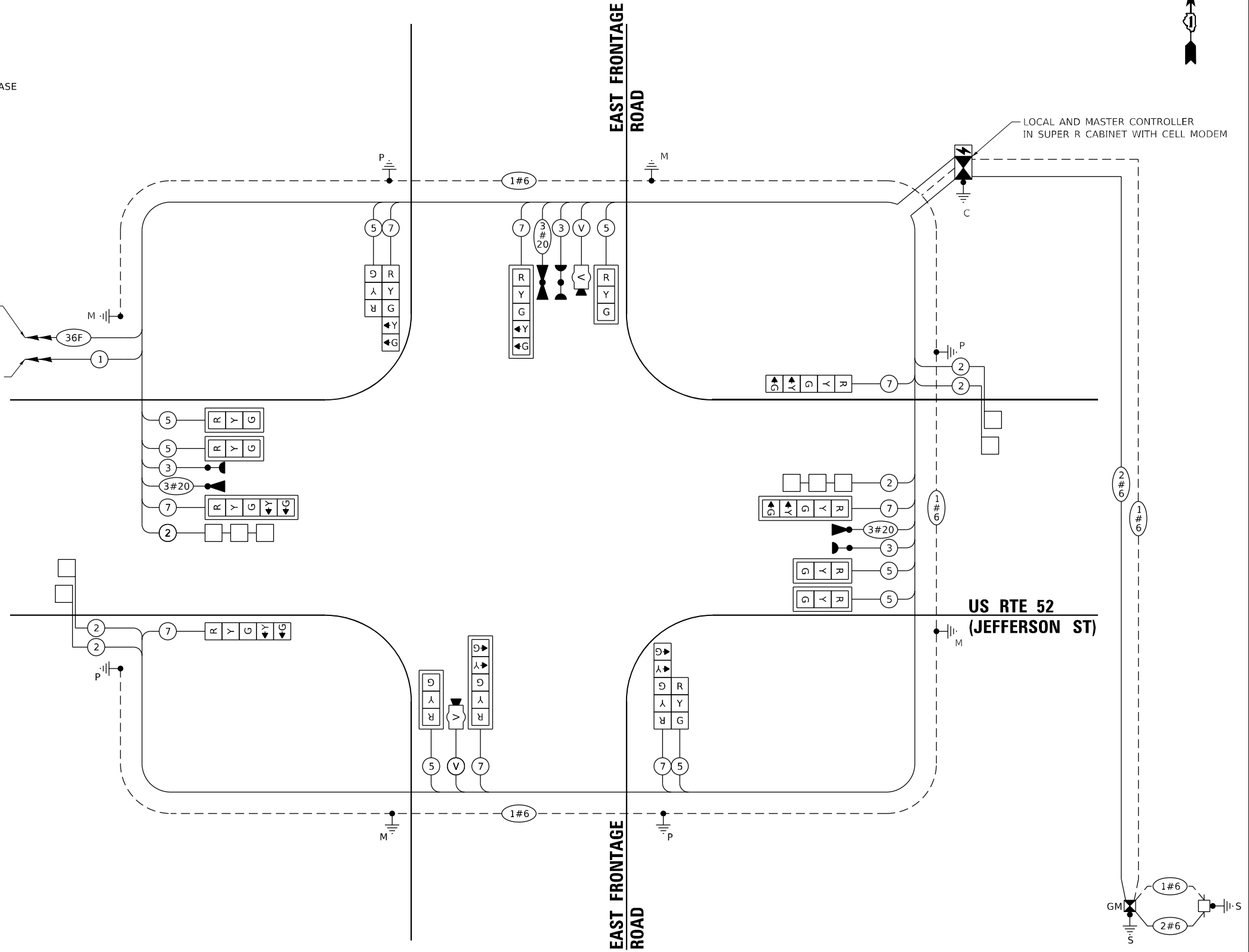
- ← * → PROTECTED PHASE
- ← * - - → PROTECTED/PERMITTED PHASE
- ← * → PEDESTRIAN PHASE
- ← * OL → OVERLAP

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROP. INTERCONNECT TO I-55 NB RAMP

PROP. TRACER CABLE



LOCAL AND MASTER CONTROLLER IN SUPER R CABINET WITH CELL MODEM

CABLE PLAN
(NOT TO SCALE)

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	16	11	50	88.0
(YELLOW)	16	20	5	16.0
(GREEN)	16	12	45	86.4
PERMISSIVE ARROW	16	10	10	16.00
PED. SIGNAL	-	20	100	0.00
CONTROLLER	2	100	100	200.00
UPS	1	25	100	25.00
VIDEO SYSTEM	1	150	100	150.00
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				581.4

ENERGY COSTS TO:

VILLAGE OF SHOREWOOD
ONE TOWNE CENTER BLVD.
SHOREWOOD, ILLINOIS 60404

ENERGY SUPPLY: CONTACT: CHRISTY GOOSSENS
PHONE: (815) 724-5982
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: 58380-73023

TS SHT NO. 51

TS 22191
EAGLE 3D

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = mid@tche	DESIGNED - TM	REVISED -
PLOT SCALE = 40,0000' / in.	DRAWN - TM	REVISED -
PLOT DATE = 3/11/2022	CHECKED - AS	REVISED -
	DATE - 02-28-22	REVISED -

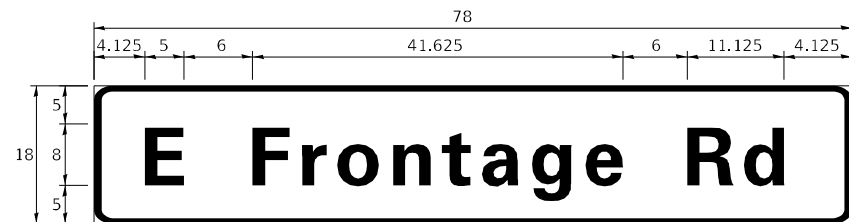
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
US RTE 52 (JEFFERSON ST) AND EAST FRONTAGE RD
SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

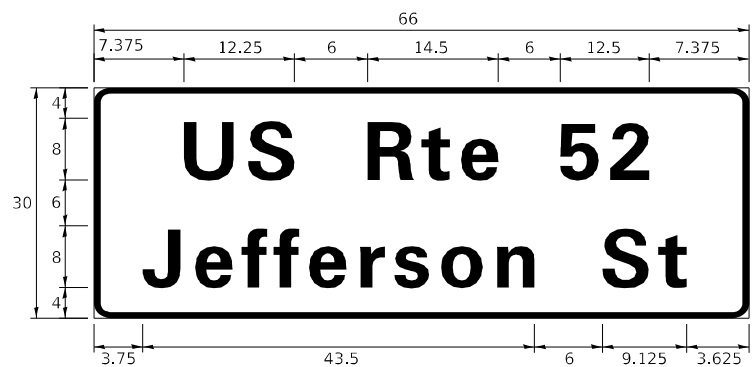
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
607	2018-075-B-R	WILL	280	186
CONTRACT NO. 62H16				
ILLINOIS FED. AID PROJECT				

SIGN PANEL – TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	9.75	2	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	13.75	2	ZZ	2

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
SIGN PANEL - TYPE 2	SQ FT	47
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	736
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	163
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	412
HANDHOLE	EACH	5
HEAVY-DUTY HANDHOLE	EACH	2
DOUBLE HANDHOLE	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
* ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	575
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1760
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1755
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1855
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	210
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	800
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 52 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	20
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	13.5
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	41
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1 FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1 FACE, 5-SECTION, MAST ARM MOUNTED	EACH	4
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	10
INDUCTIVE LOOP DETECTOR	EACH	6
DETECTOR LOOP, TYPE I	FOOT	325
* LIGHT DETECTOR	EACH	3
* LIGHT DETECTOR AMPLIFIER	EACH	1
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	10
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	9
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	575
FULL-ACTUATED CONTROLLER AND TYPE SUPER R CABINET (SPECIAL)	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	2
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

* 100% COST TO VILLAGE OF SHOREWOOD

TS SHT NO. 52

TS 22191
EAGLE 3D

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Downers Grove, IL 60516

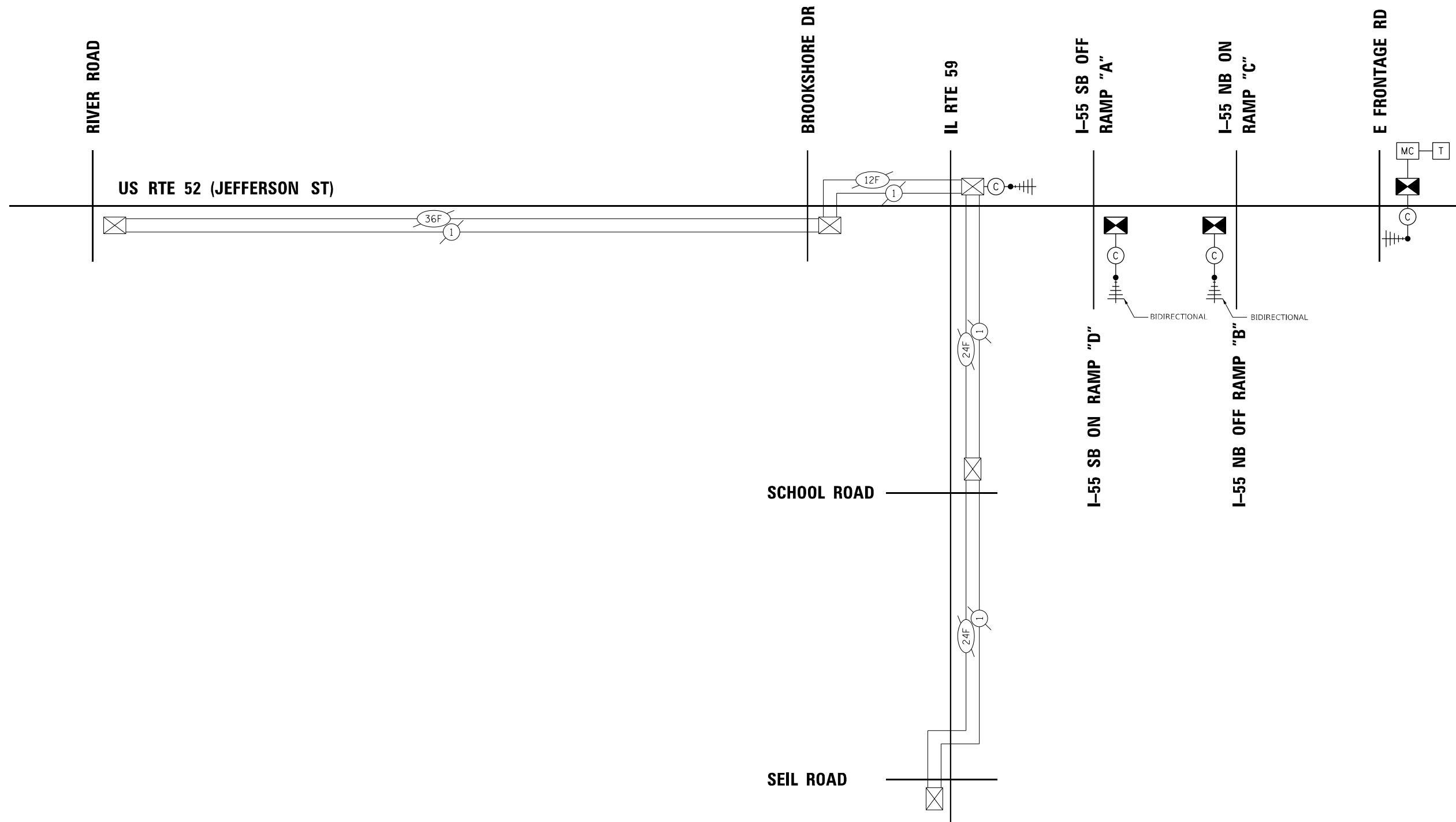
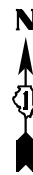
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS
AND SCHEDULE OF QUANTITIES
US RTE 52 (JEFFERSON ST) AND EAST FRONTAGE RD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
607	2018-075-B-R	WILL	280	187
				CONTRACT NO. 62H16
ILLINOIS FED. AID PROJECT				



TS SHT NO. 53

EAGLE 3D

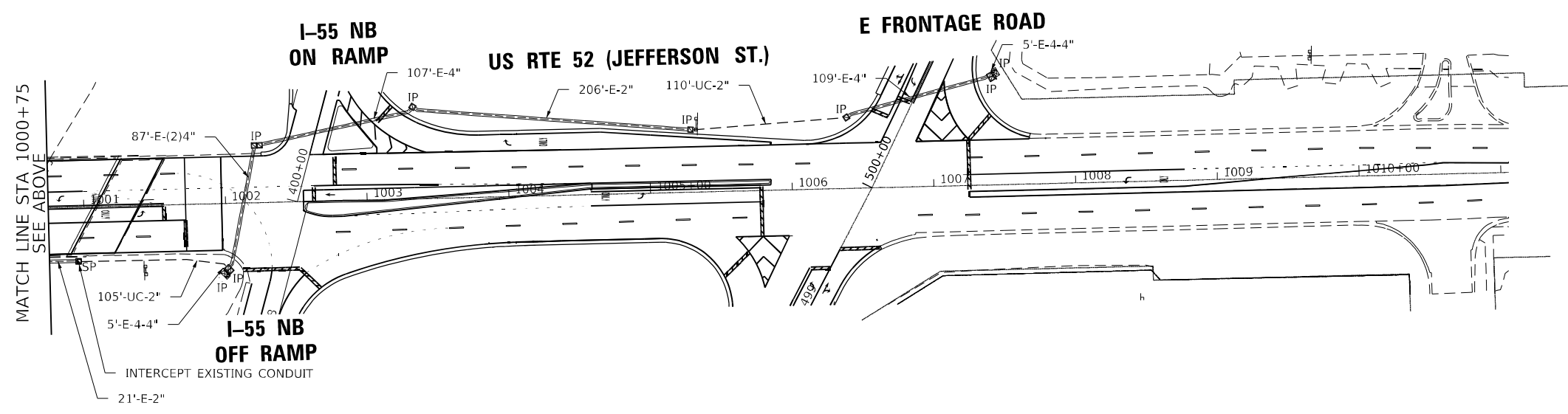
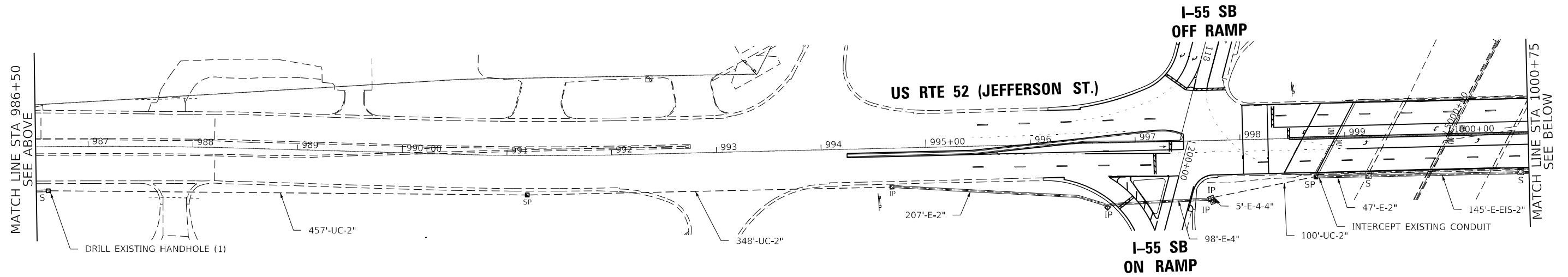
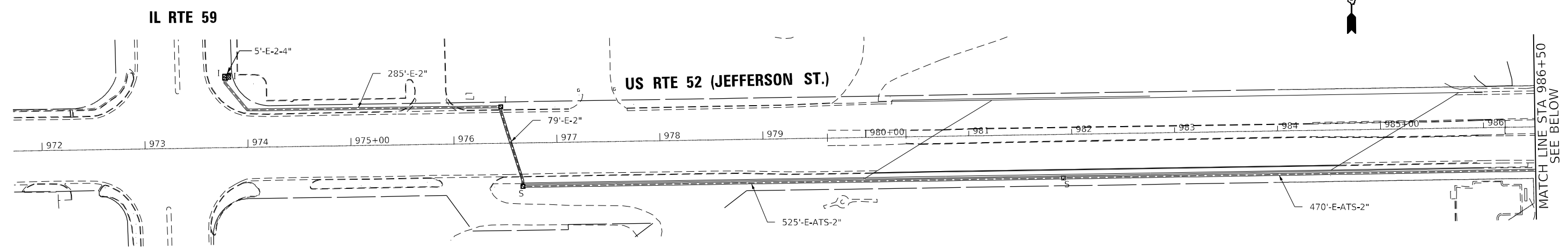
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PLOT DATE = 3/11/2022	DATE - 02-28-22	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TEMPORARY INTERCONNECT SCHEMATIC
US RTE 52 (JEFFERSON ST) FROM RIVER ROAD TO EAST FRONTAGE RD
SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 607	SECTION 2018-075-B-R	COUNTY WILL	TOTAL SHEETS 280	SHEET NO. 188
CONTRACT NO. 62H16			ILLINOIS FED. AID PROJECT	



TS SHT NO. 54

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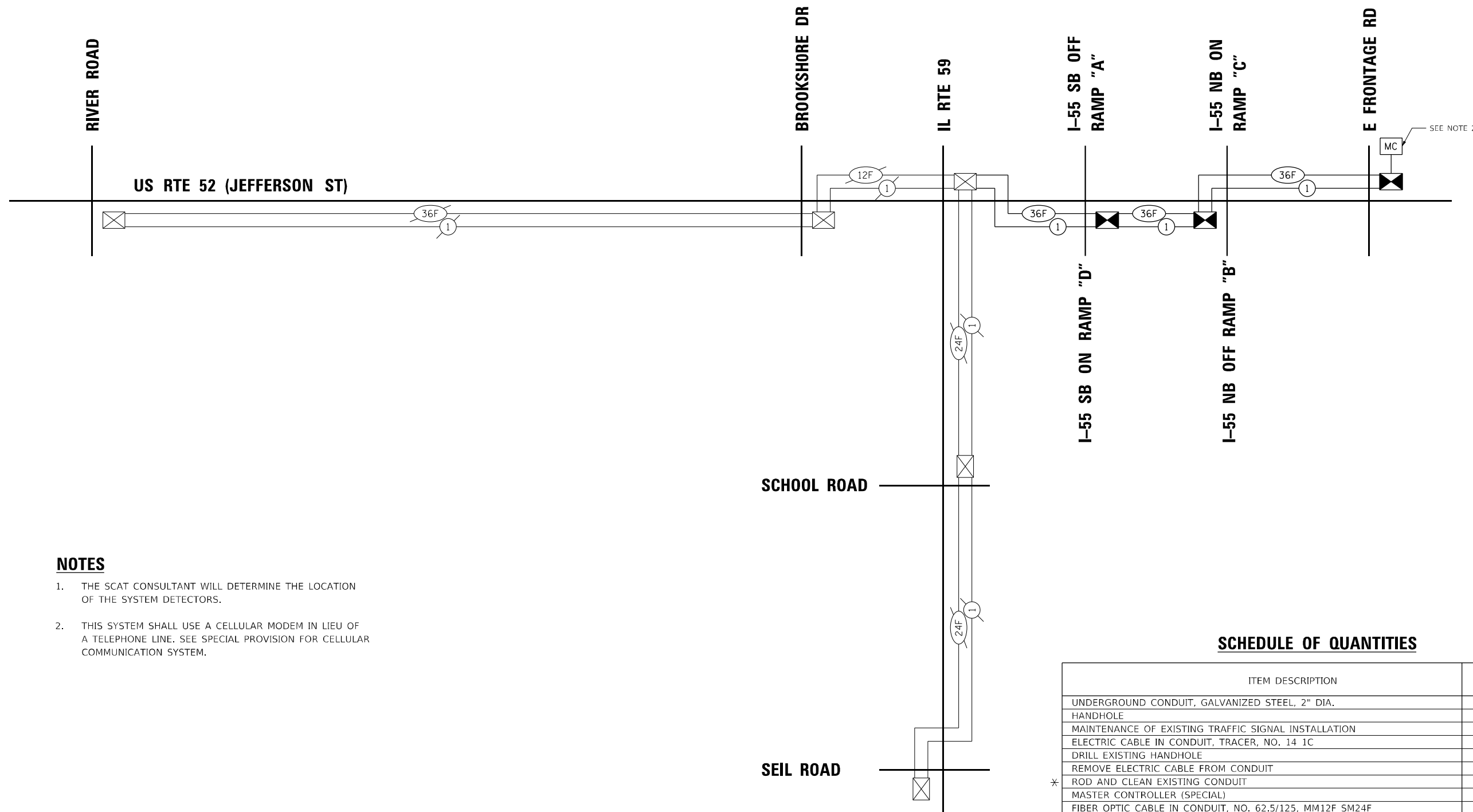
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PLOT DATE = 3/11/2022	CHECKED - AS	REVISED -
	DATE - 02-28-22	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN
US RTE 52 (JEFFERSON ST) FROM IL RTE 59 TO EAST FRONTAGE RD
SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
607	2018-075-B-R	WILL	280	189
CONTRACT NO. 62H16				
ILLINOIS FED. AID PROJECT				



NOTES

1. THE SCAT CONSULTANT WILL DETERMINE THE LOCATION OF THE SYSTEM DETECTORS.
2. THIS SYSTEM SHALL USE A CELLULAR MODEM IN LIEU OF A TELEPHONE LINE. SEE SPECIAL PROVISION FOR CELLULAR COMMUNICATION SYSTEM.

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1120
HANDHOLE	EACH	3
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	3790
DRILL EXISTING HANDHOLE	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2590
* ROD AND CLEAN EXISTING CONDUIT	FOOT	1100
MASTER CONTROLLER (SPECIAL)	EACH	1
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	3790
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	3

* NOMINAL QUANTITY TO BE USED AS NEEDED AND AS APPROVED BY THE ENGINEER

TS SHT NO. 55

EAGLE 3D













GENERAL NOTES:

- THIS PROJECT INCLUDES THE RELOCATION OF LIGHTING UNITS IMPACTED BY THE ROADWAY WIDENING. THIS WORK ALSO INCLUDES RETROFITTING THE EXISTING ROADWAY LUMINAIRES AT THE INTERCHANGE OF US 52 OVER I-55 WITH NEW LED LUMINAIRES. THE EXISTING UNDERPASS LIGHTING SYSTEM SHALL BE REPLACED WITH A NEW LED LIGHTING SYSTEM. THE EXISTING LIGHTING IS OWNED AND MAINTAINED BY IDOT DISTRICT 1, STATE OF ILLINOIS
- MEADE ELECTRIC CO. DISTRICT 1 ELECTRICAL MAINTENANCE CONTRACTOR SHALL LOCATE IDOT ELECTRICAL EQUIPMENT AND UNDERGROUND CABLES. CALL MEADE ELECTRIC CO. AT 773-287-7672 TO TRANSFER IDOT MAINTAINED EQUIPMENT TO THE CONTRACTOR BEFORE THE START OF ANY WORK.
- THE QUANTITIES OF RACEWAY WHEREVER 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.
- THE CONTRACTOR SHALL NOTIFY J.U.L.I.E. TO LOCATE AND MARK/STAKE ALL UNDERGROUND UTILITIES.
- THE CONTRACTOR SHALL VERIFY LOCATIONS OF UNDERGROUND/OVERHEAD UTILITIES PRIOR TO INSTALLATION OF LIGHT POLES AND CONDUITS. IF THERE IS A CONFLICT WITH THE LIGHT POLES, CONDUITS AND UNIT DUCTS AS SHOWN ON PLANS, THE CONTRACTOR SHALL SUGGEST ALTERNATIVE LOCATIONS AND COORDINATE WITH THE ENGINEER PRIOR TO PERFORMING DIGGING WORK. IT SHALL ALSO BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR SHALL TAKE CARE WHEN INSTALLING UNIT DUCT TO AVOID CONFLICTS WITH EXISTING UNDERGROUND UTILITIES AND TREE ROOTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE IF ANY AS DETERMINED BY THE ENGINEER.
- TRENCHES FOR LIGHTING RACEWAYS SHALL HAVE A MINIMUM DEPTH OF 30".
- LIGHTING SYSTEM INSTALLATION SHALL CONFORM TO THE LATEST IDOT STANDARDS, NEC AND LOCAL CODES.
- ALL ELECTRICAL EQUIPMENT AND PRODUCTS SHALL BE UL LISTED AND LABELED.

BILL OF MATERIALS

DESCRIPTION	UNIT	QUANTITY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	210
CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL	FOOT	136
CONDUIT ATTACHED TO STRUCTURE, 3" DIA., PVC COATED GALVANIZED STEEL	FOOT	30
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6"X6"X4"	EACH	6
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12"X10"X6"	EACH	2
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18"X18"X8"	EACH	2
UNIT DUCT, 600V, 3-1C NO. 4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	3199
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	860
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	89
LUMINAIRE, LED, UNDERPASS, SUSPENDED, OUTPUT DESIGNATION F	EACH	6
LIGHT POLE , ALUMINUM, 47.5 FT. M.H., 15 FT. MAST ARM	EACH	1
LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	70
BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	7
REMOVAL OF POLE FOUNDATION	EACH	6
RELOCATE EXISTING LIGHTING UNIT	EACH	6
REMOVAL OF LUMINAIRE, SALVAGE	EACH	88
REPLACE EXISTING CCTV CAMERA AND LOWERING DEVICE 80 FT. M.H.	EACH	1
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	89
MAINTENANCE OF LIGHTING SYSTEM	CAL MO	12

LEGEND

-  PROPOSED LIGHTING UNIT, 47.5 FT. MH, 15 FT. MAST ARM, (240V-LINE TO NEUTRAL), LED LUMINAIRE WITH BREAKAWAY DEVICE
-  EXISTING LIGHTING UNIT TO BE REMOVED AND RELOCATED
-  RELOCATED LIGHTING UNIT
-  EXISTING LIGHTING UNIT TO REMAIN
-  UNIT DUCT, 600V, 3-1C NO. 4, 1/C NO. 6 GROUND (XLP-TYPE USE) 1 1/4" DIA. POLYETHYLENE
-  EXISTING ComEd ELECTRIC SERVICE POLE 240/480V, 1 PHASE 3 WIRE
-  EXISTING LIGHTING CONTROLLER TO REMAIN
-  RIGID GALVANIZED STEEL CONDUIT, UNDERGROUND, WITH UNIT DUCT
-  GROUND ROD 3/8" DIA. X 10 FT.
-  EXISTING UNDERPASS LUMINAIRE TO BE REMOVED
-  PROPOSED LED UNDERPASS LUMINAIRE
-  JUNCTION BOX STAINLESS STEEL, ATTACHED TO STRUCTURE (SIZE AS INDICATED ON UNDERPASS LIGHTING PLAN)

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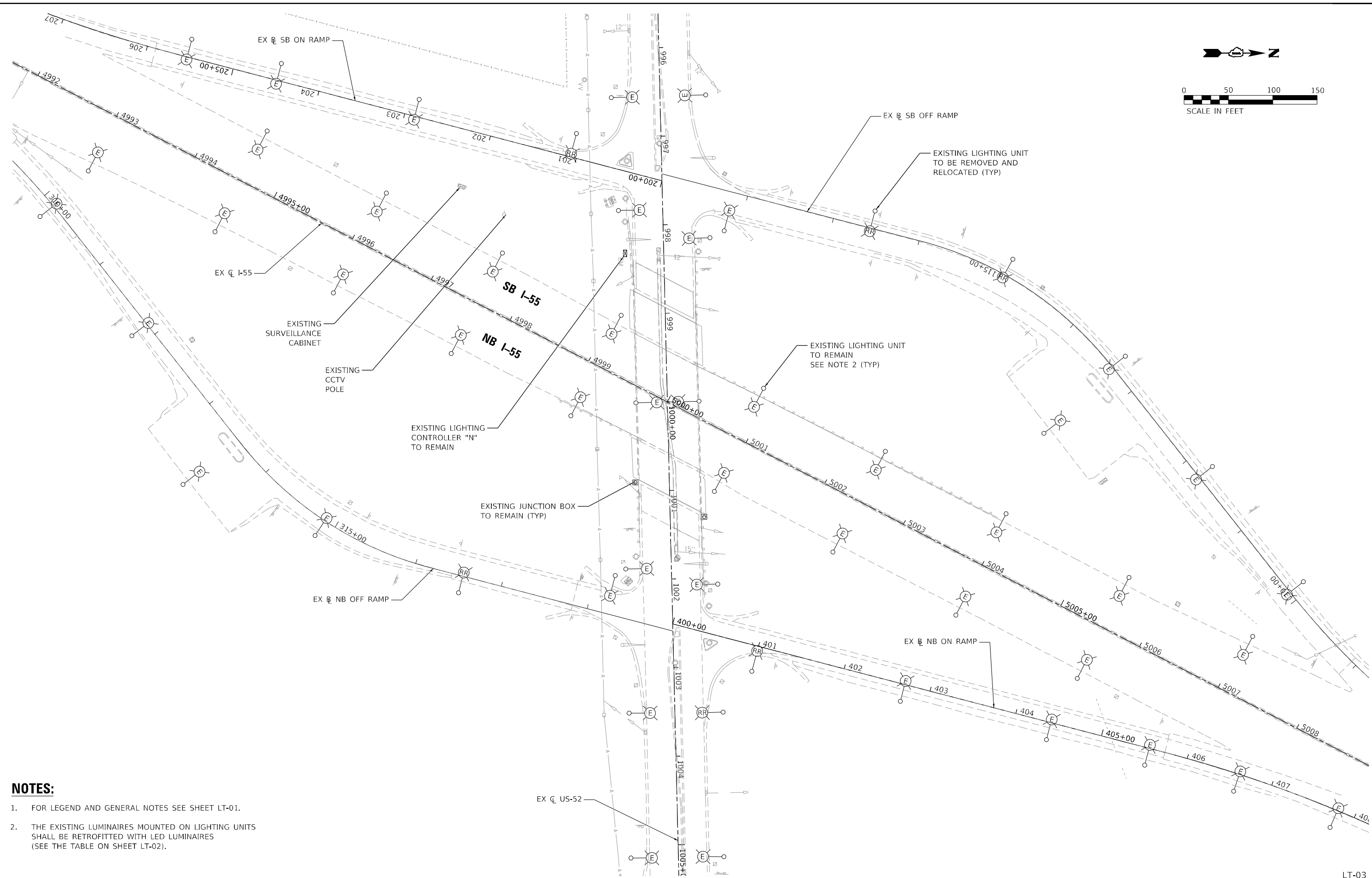
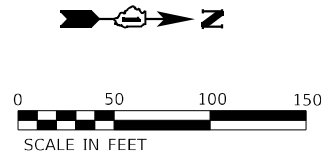
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES, BILL OF MATERIALS AND LEGEND
US ROUTE 52 OVER I-55**

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

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
607	2018-075-B-R	WILL	280	191
			CONTRACT NO. 62H16	
ILLINOIS FED. AID PROJECT				



- NOTES:**
- FOR LEGEND AND GENERAL NOTES SEE SHEET LT-01.
 - THE EXISTING LUMINAIRES MOUNTED ON LIGHTING UNITS SHALL BE RETROFITTED WITH LED LUMINAIRES (SEE THE TABLE ON SHEET LT-02).

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LT-03

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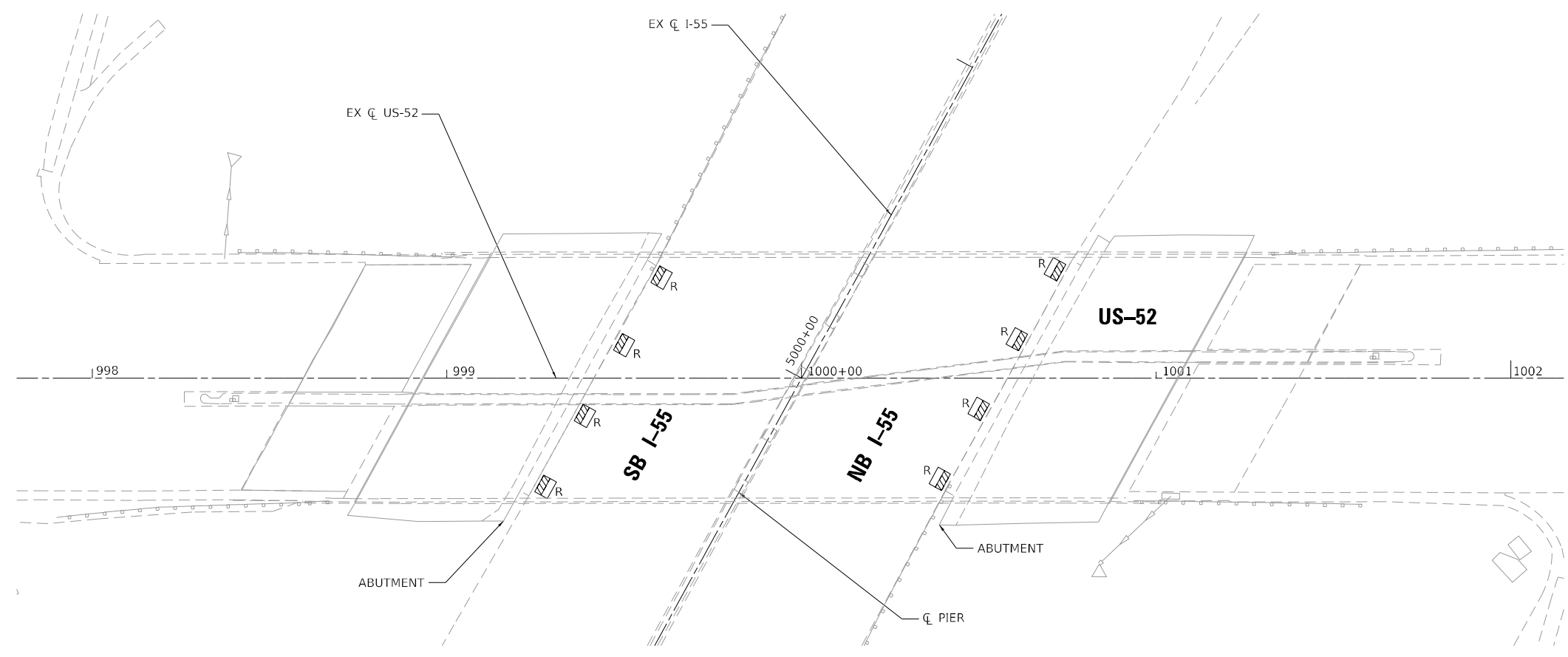
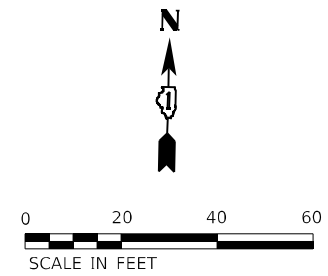
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

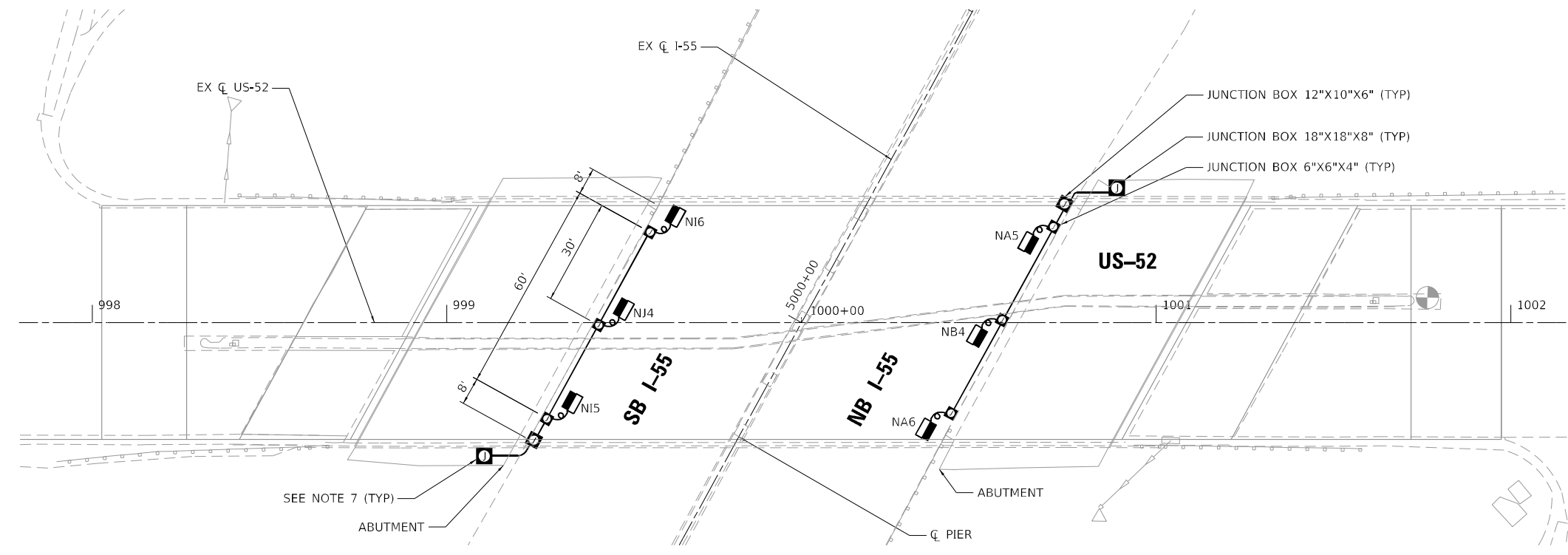
EXISTING ROADWAY LIGHTING PLAN
US ROUTE 52 OVER I-55

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

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
607	2018-075-B-R	WILL	280	193
			CONTRACT NO. 62H16	
ILLINOIS FED. AID PROJECT				



UNDERPASS LIGHTING REMOVAL PLAN



PROPOSED UNDERPASS LIGHTING PLAN

NOTES:

1. ALL PROPOSED UNDERPASS LIGHTING UNITS SHALL BE SUSPENDED MOUNT PER IDOT STANDARD DRAWING BE-901 "SUSPENDED MOUNT LED UNDERPASS LUMINAIRE INSTALLATION DETAILS".
2. DIMENSIONS SHOWN ON PLAN FOR MOUNTING THE UNDERPASS LUMINAIRES ARE APPROXIMATE. IN FINAL DESIGN IT MAY VARY.
3. ELECTRIC FEED TO THE PROPOSED UNDERPASS LUMINAIRES SHALL BE FROM EXISTING CONTROL CABINET "N".
4. PROPOSED LUMINAIRES SHALL BE WITH SET BACK SO THAT THEY ARE SUSPENDED AT THE EDGE OF PAVEMENT.
5. FOR UNDERPASS LIGHTING USE 3-1/C NO. 10 AND 1/C NO. 10 GROUND, 600V (XLP-TYPE USE) ELECTRIC CABLE IN CONDUIT.
6. FOR THE LAST LUMINAIRE ON CIRCUIT USE 2-1/C NO. 10 AND 1/C NO. 10 GROUND, 600V (XLP-TYPE USE) ELECTRIC CABLE IN CONDUIT.
7. INSTALL TWO (2) 5 AMP PROTECTIVE FUSES WITH FUSE HOLDERS AND SOLID NEUTRAL AS OVERCURRENT PROTECTION FOR UNDERPASS LIGHTING. THEIR COST SHALL BE INCLUDED IN THE COST OF THE JUNCTION BOX.

LT-05

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	DATE - 3/11/2022	REVISED -

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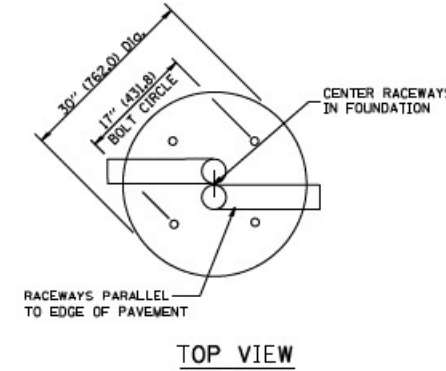
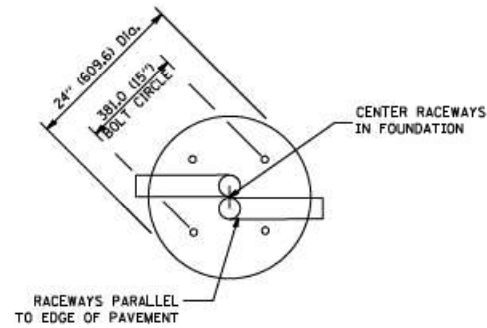
**UNDERPASS LIGHTING PLAN
 US ROUTE 52 OVER I-55**

SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
607	2018-075-B-R	WILL	280	195
			CONTRACT NO. 62H16	
ILLINOIS FED. AID PROJECT				

LIGHT POLE FOUNDATION DEPTH TABLE
40 FT. (12.192 m) TO 47.5 FT. (14.478 m) MOUNTING HEIGHT

SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION	
	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY Qu = 0.375 TON/SQ. FT.	13'-0" (3.96 m)	15'-0" (4.57 m)
MEDIUM CLAY Qu = 0.75 TON/SQ.FT	9'-6" (2.93 m)	10'-9" (3.23 m)
STIFF CLAY Qu = 1.50 TON/SQ. FT.	7'-0" (2.13 m)	8'-0" (2.44 m)
LOOSE SAND φ = 34°	9'-0" (2.74 m)	10'-0" (3.05 m)
MEDIUM SAND φ = 37.5°	8'-3" (2.52 m)	9'-0" (2.74 m)
DENSE SAND φ = 40°	7'-9" (2.36 m)	9'-0" (2.74 m)

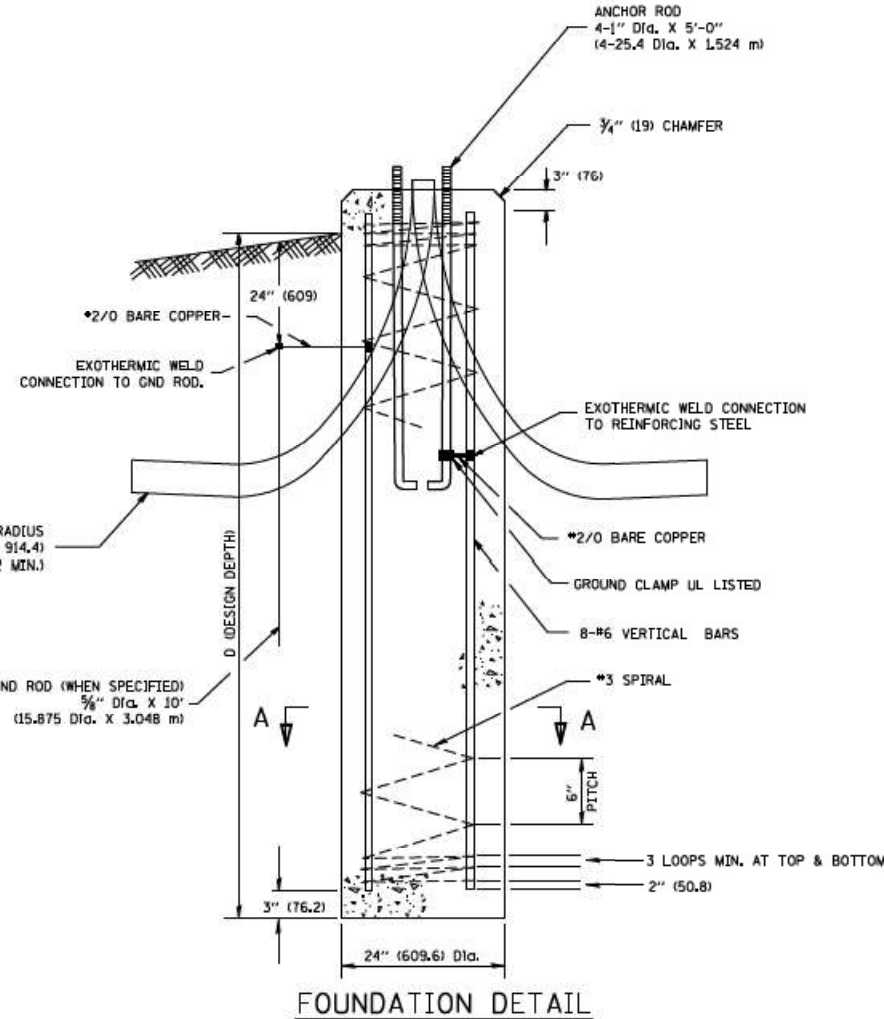


TOP VIEW

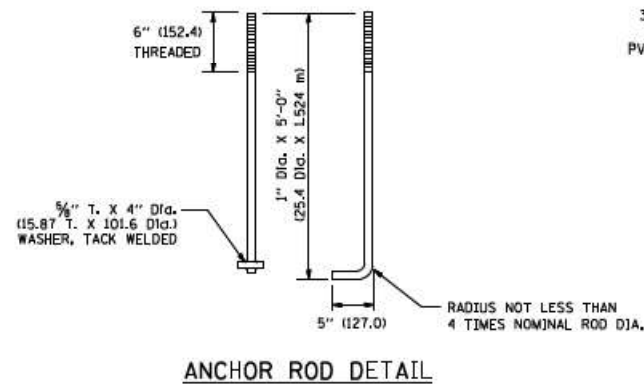
TOP VIEW

NOTES

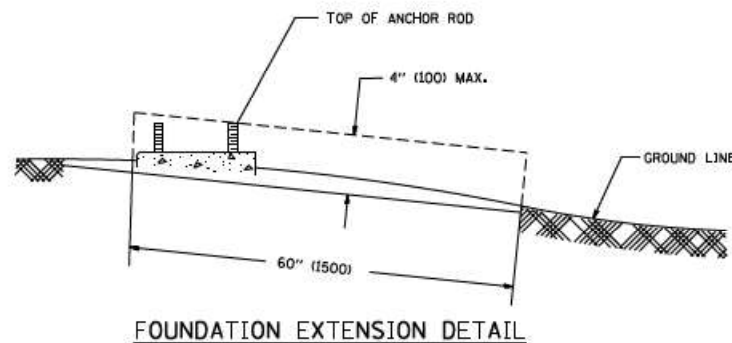
- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED.
- THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
- THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
- THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED 3/4-IN. (20 mm).
- THE CONCRETE SHALL BE CLASS S1. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
- THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UMG (MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
- THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- ANCHOR RODS SHALL PROJECT 2 3/4" (69.9 mm) ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
- THE CONTRACTOR SHALL USE A #3 SPIRAL AT 6" (152.4 mm) PITCH OR MAY SUBSTITUTE #3 TIES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.
- THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
- THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.



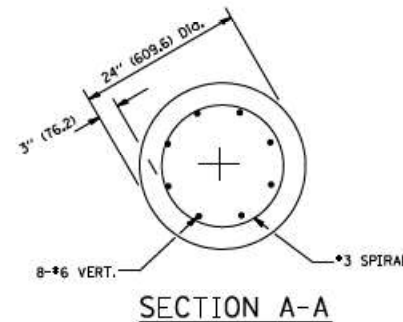
FOUNDATION DETAIL



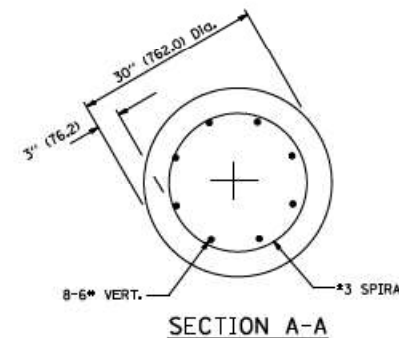
ANCHOR ROD DETAIL



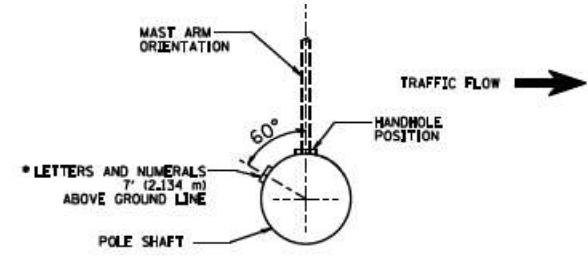
FOUNDATION EXTENSION DETAIL



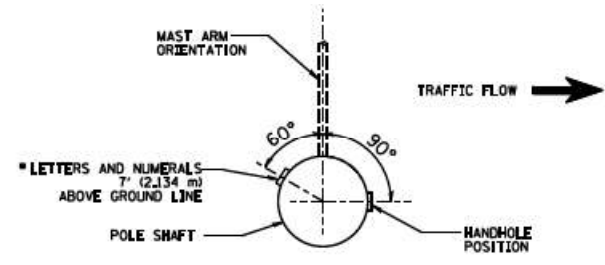
SECTION A-A



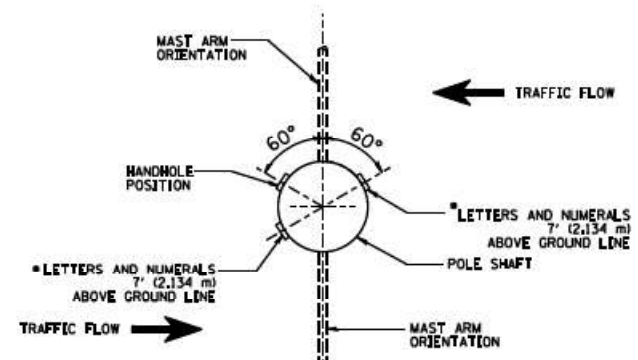
SECTION A-A



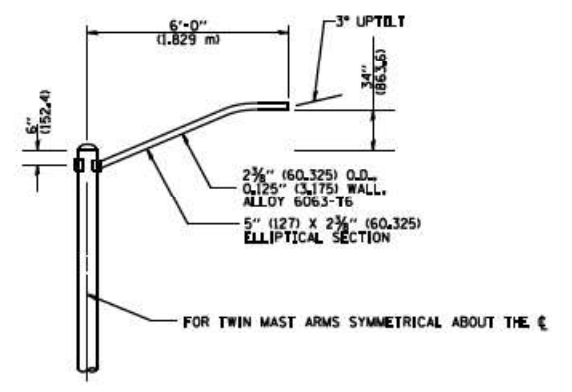
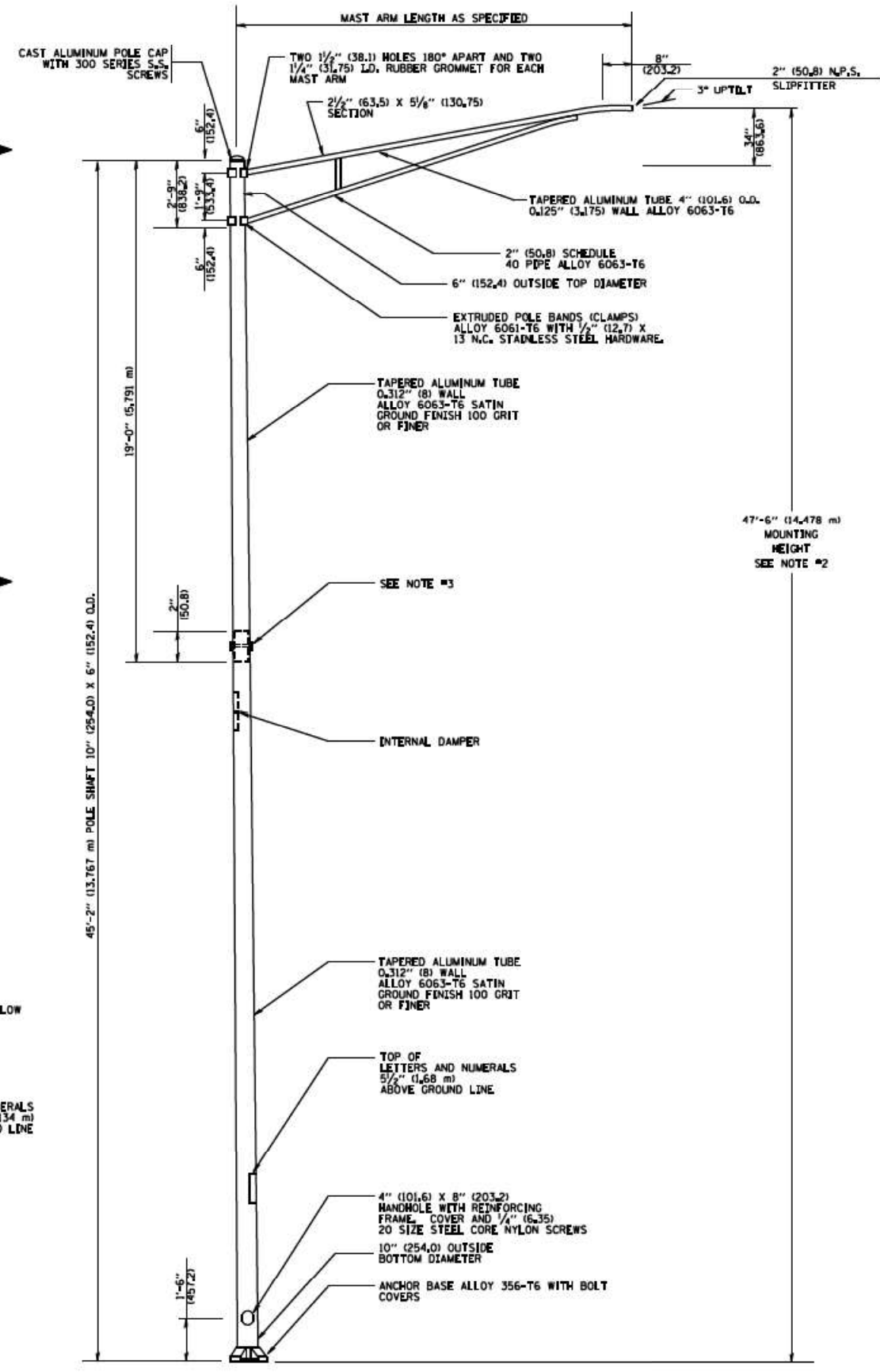
POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES MOUNTED ON BRIDGE PARAPET OR BARRIER WALL



POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES

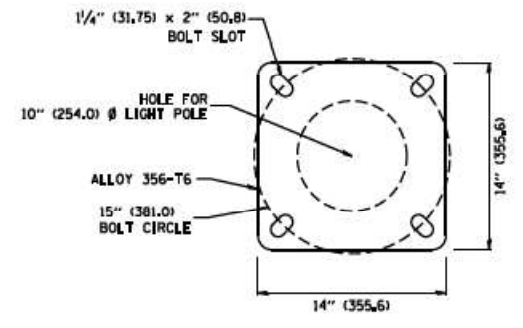


POSITION OF HANDHOLE AND POLE NUMBER FOR TWIN MAST ARM POLES

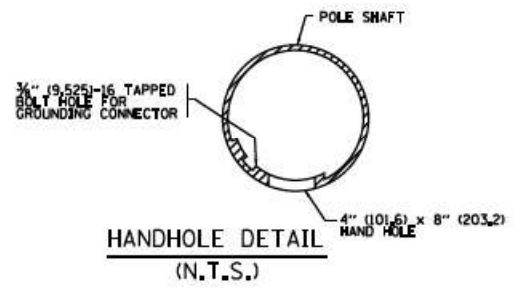


6' (1.8 m) SINGLE MEMBER MAST ARM (N.T.S.)

- NOTES**
1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
 2. MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE ANCHOR BASE.
 3. TWO PIECE SHAFT WILL BE MATCHED MARKED AND INTERCHANGEABLE BETWEEN DIFFERENT UNITS. FIELD DRILLING OF THE HOLES WILL NOT BE ALLOWED.
 4. THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
 5. THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR, BURNDY K2C23, T&B SP40L OR APPROVED EQUAL.
 6. LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.
 7. LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.
 8. LIGHTING UNIT IDENTIFICATION NUMBERS SHALL BE INSTALLED BEFORE THE LIGHTING UNIT IS ENERGIZED.



LIGHT POLE BASE PLATE DETAIL
15 INCH (381.0) BOLT CIRCLE



HANDHOLE DETAIL (N.T.S.)

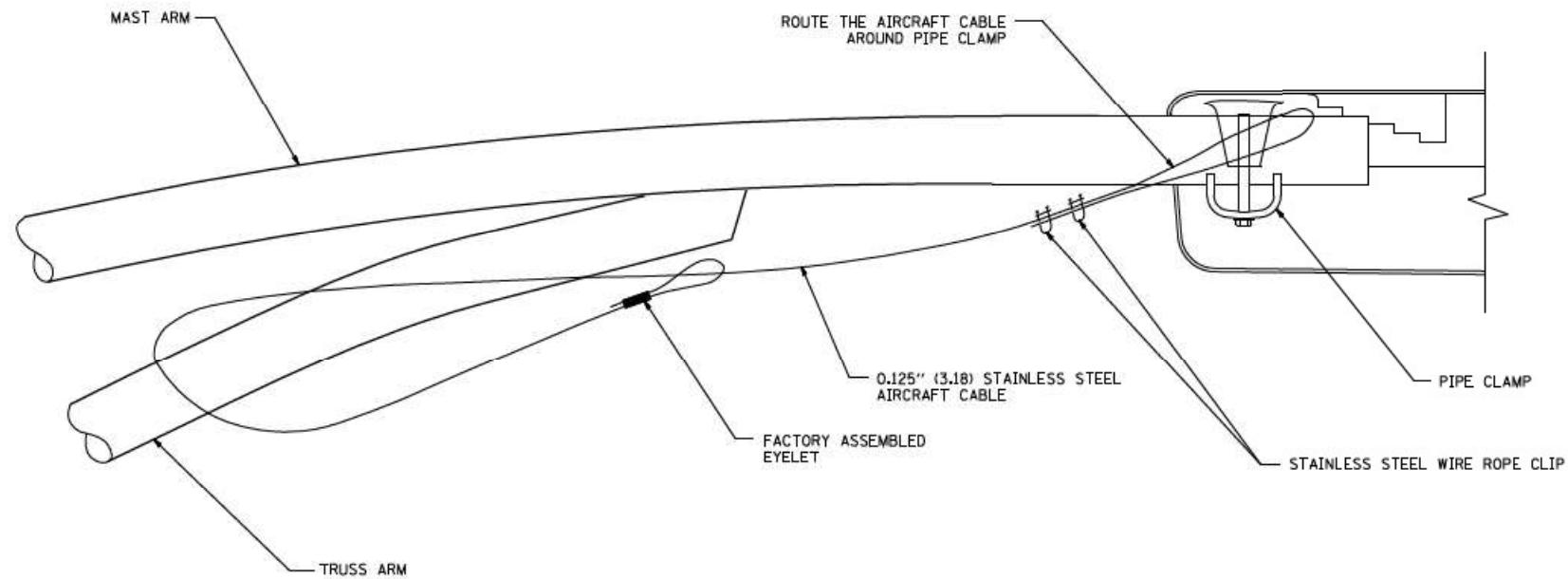
AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60515

USER NAME = drsvehasn	DESIGNED -	REVISED - R. TOMSONS 09-06-00
Documents\DOT Offices\District 1\Projects\Dist 1\2015\CA00\CA00sheets\be488.dgn	CHECKED -	REVISED - R. TOMSONS 09-03-03
PLOT SCALE = 50.000 % / in.	DATE -	REVISED - R. TOMSONS 01-18-13
PLOT DATE = 12/21/2015		REVISED - R. TOMSONS 03-18-15

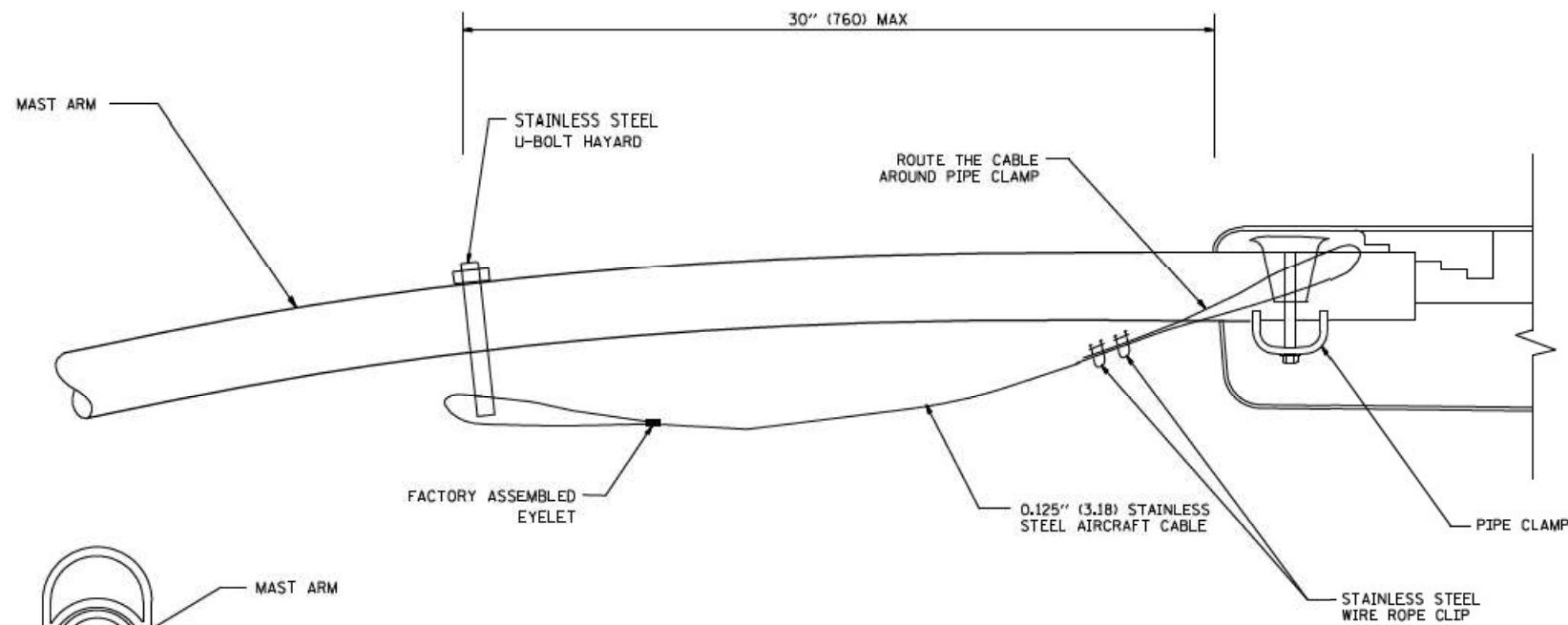
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALUMINUM LIGHT POLE		F.A. DATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47'-6" (14.478 m) MOUNTING HEIGHT			BE-400		280	197
SCALE:	SHEET 1 OF 1 SHEETS	STA.	TO STA.			

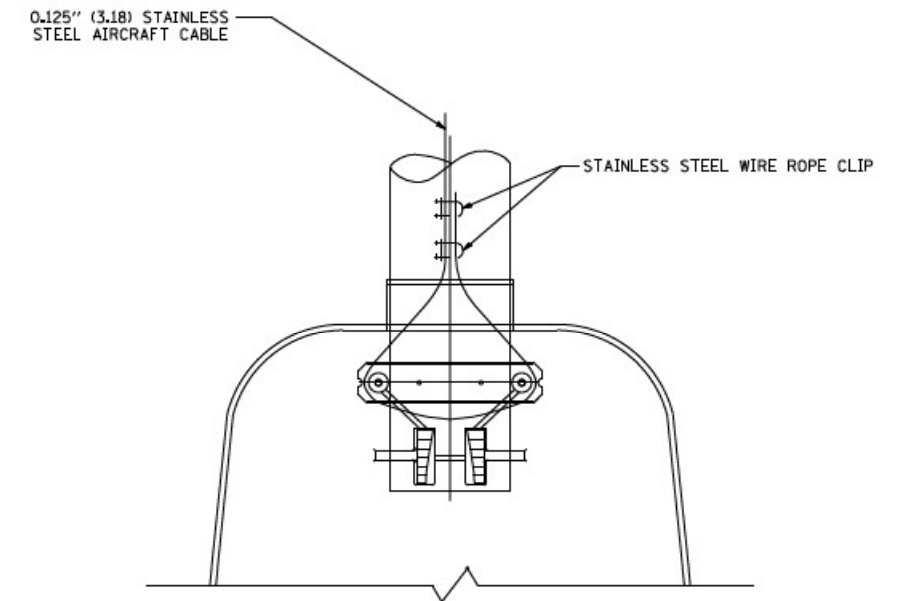
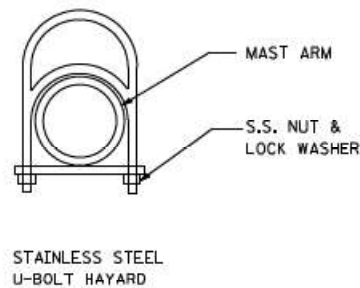
ILLINOIS FED. AID PROJECT	
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SIDE VIEW (TRUSS ARM)
N.T.S.



SIDE VIEW (SINGLE MEMBER OR DAVIT ARM)
N.T.S.



BOTTOM VIEW
N.T.S.

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
2. CONTRACTOR SHALL ADJUST THE WIRE CLIP TO ELIMINATE ANY SLACK FROM THE WIRE ROPE.
3. THE 0.125" (3.18) STAINLESS STEEL AIRCRAFT CABLE SHALL REMAIN VISIBLE FROM THE GROUND LEVEL.
4. THE BREAKING STRENGTH OF THE CABLE SHALL BE 1700 LBS. MIN.

LT-08

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60515

USER NAME = gog3arobt
PLOT SCALE = 50.000 X 1/4"
PLOT DATE = 1/4/2008

DESIGNED -
DRAWN -
CHECKED -
DATE -

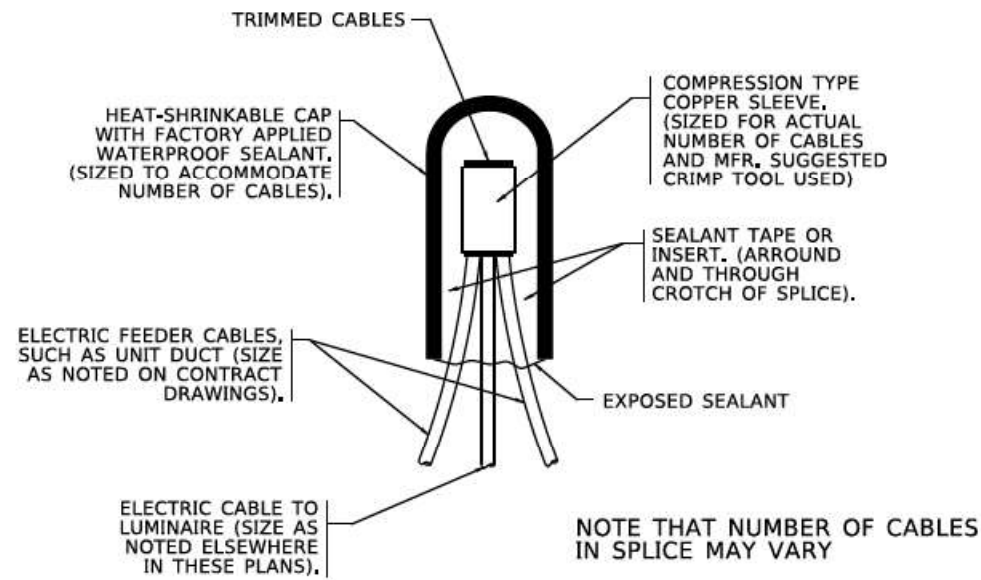
REVISED - 08-08-03
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

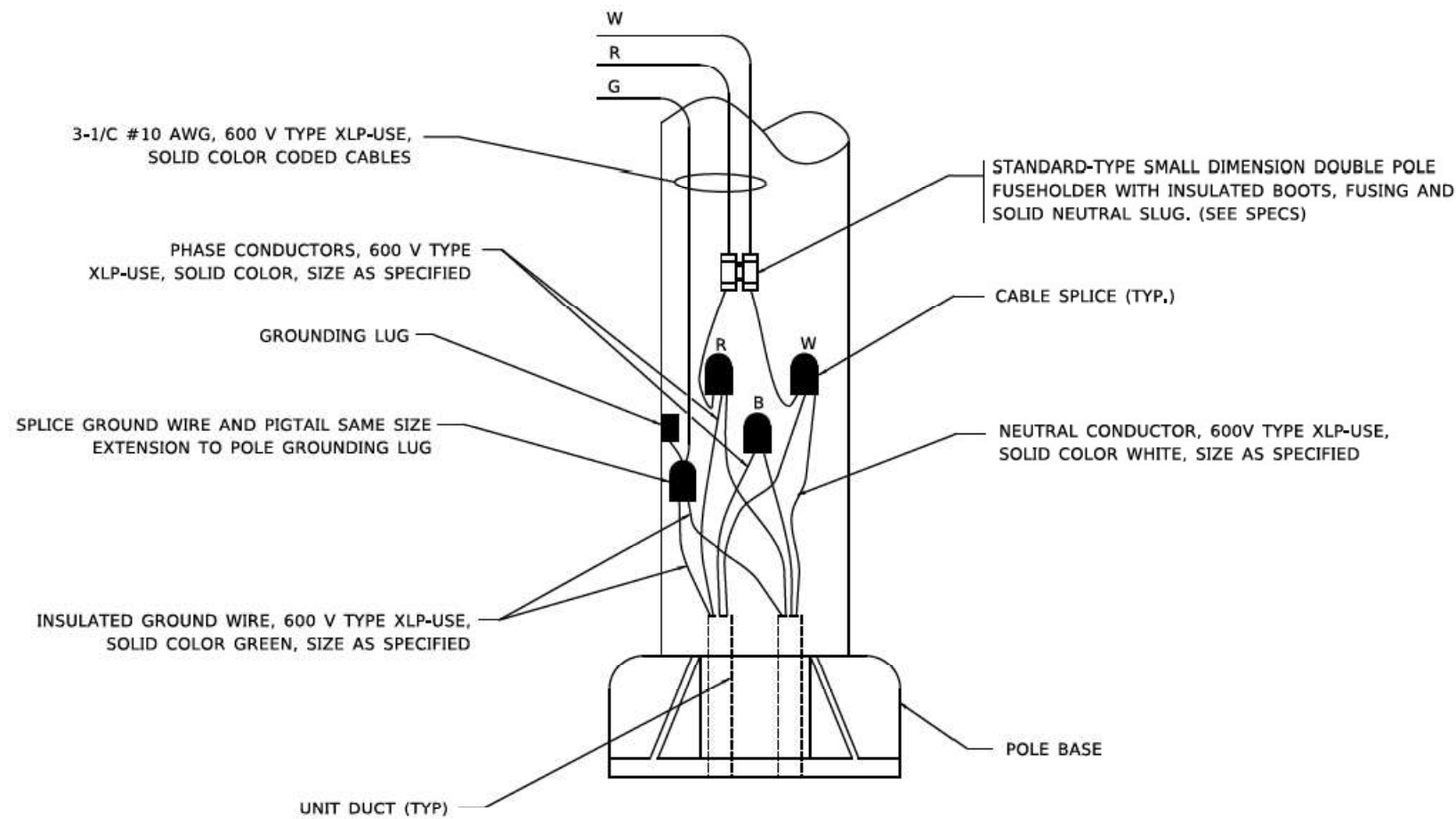
LUMINAIRE SAFETY CABLE ASSEMBLY

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

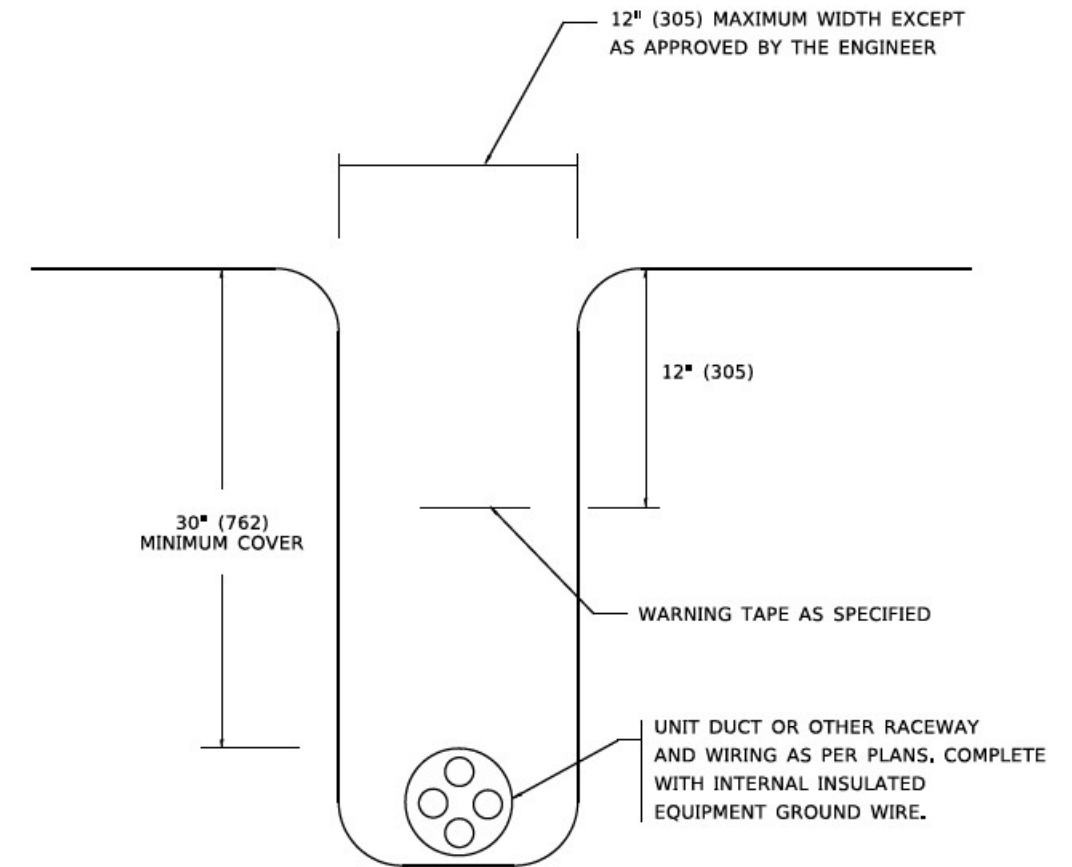
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			280	198
BE-701		CONTRACT NO.		
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				



TYPICAL SPLICE DETAIL
N.T.S.



POLE WIRING DETAIL
N.T.S.



TYPICAL WIRING IN TRENCH DETAIL
N.T.S.

MODEL - D:\files\...
 FILE NAME - ...
 PROJECT - ...
 DATE - ...

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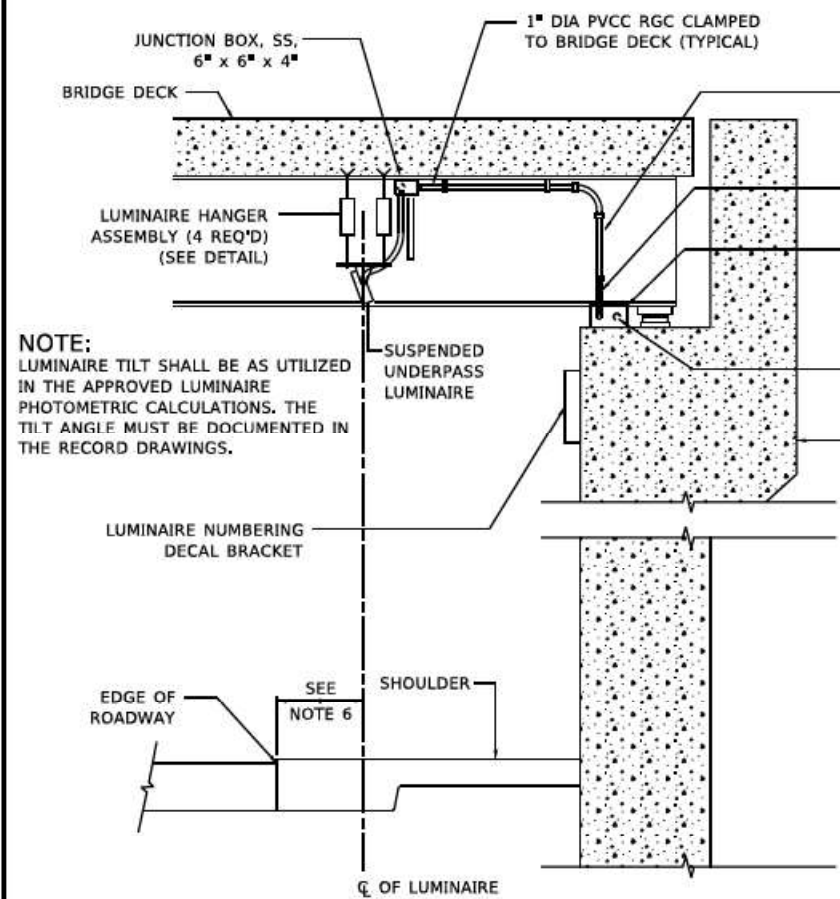
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PLOT SCALE	50,0000' / 1"	DRAWN	-	REVISED	-
PLOT DATE	3/2/2020	CHECKED	-	REVISED	-
		DATE	- 08/08/2003	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

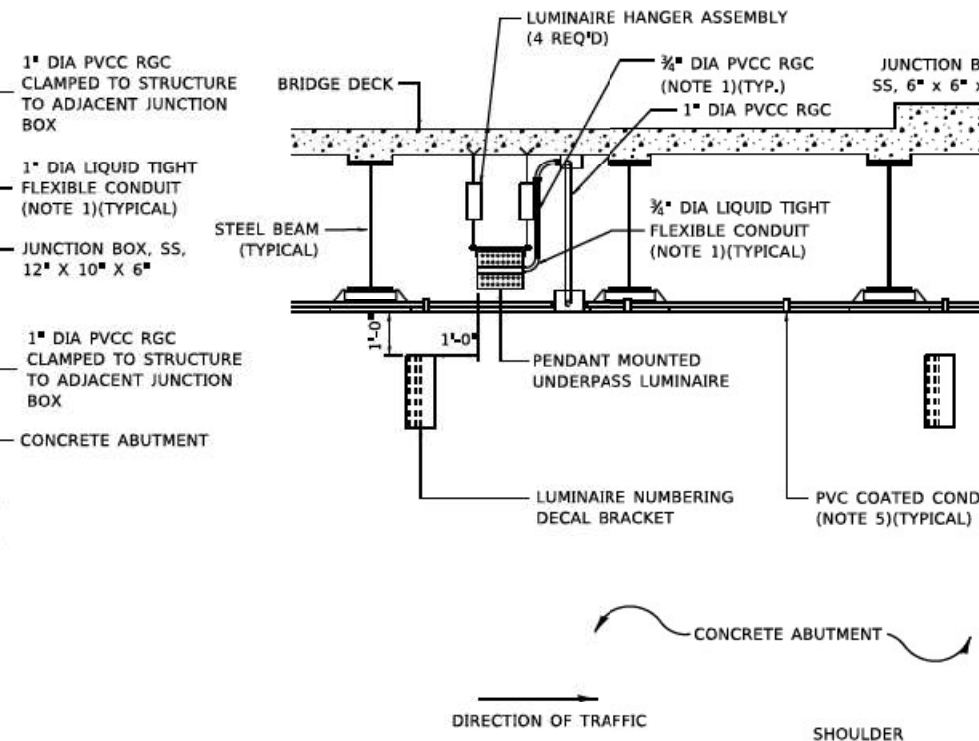
MISC. ELECTRICAL DETAILS
SHEET A

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

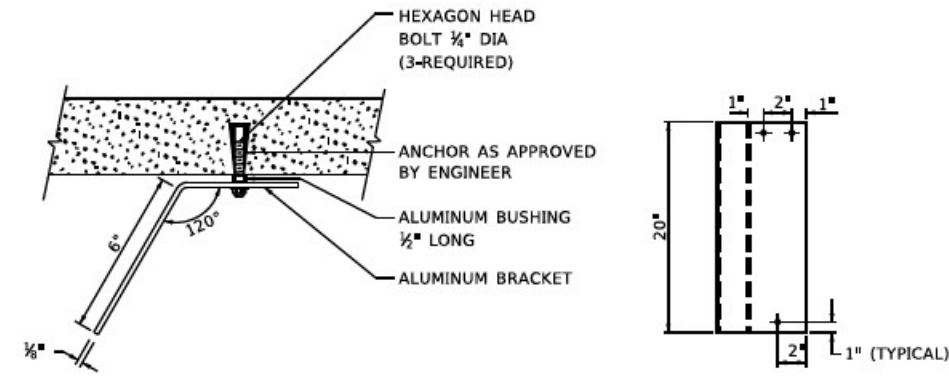
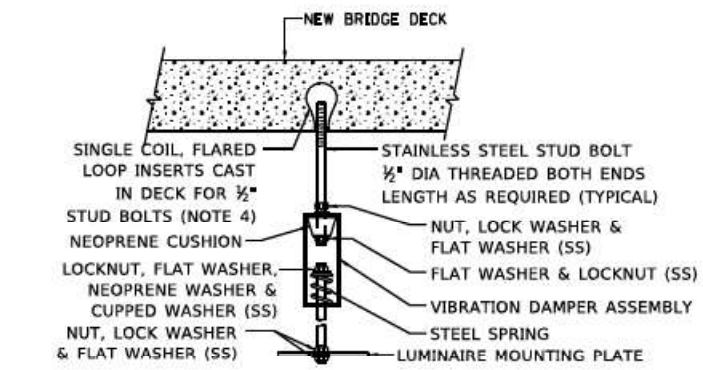
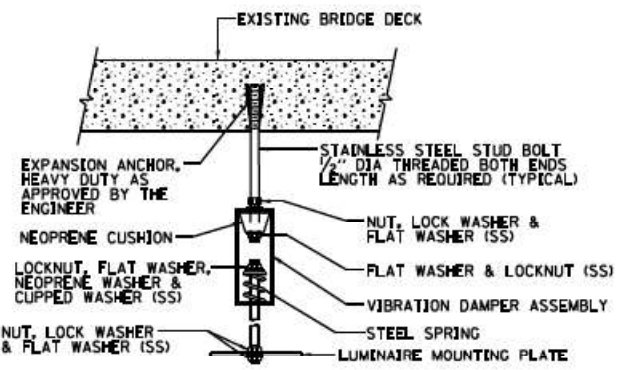
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			280	199
BE-702			CONTRACT NO.	
ILLINOIS FED. AID PROJECT				



NOTE:
LUMINAIRE TILT SHALL BE AS UTILIZED IN THE APPROVED LUMINAIRE PHOTOMETRIC CALCULATIONS. THE TILT ANGLE MUST BE DOCUMENTED IN THE RECORD DRAWINGS.



- NOTES:**
1. LIQUID TIGHT FLEXIBLE METAL CONDUIT, MAXIMUM LENGTH 6'-0", TYPICAL FOR EACH INSTANCE AS SHOWN. PROVIDE PVC COATED RIGID GALVANIZED STEEL CONDUIT AS REQUIRED NOT TO EXCEED 6'-0" OF FLEXIBLE LIQUID TIGHT METAL CONDUIT. LIQUID TIGHT FLEXIBLE METAL CONDUIT WILL BE INCLUDED IN THE COST OF THE CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED PAY ITEM EXCEPT THAT 3/4" DIA. CONDUIT AND 3/4" DIA. FLEXIBLE CONDUIT SHALL BE INCLUDED IN THE COST OF UNDERPASS LUMINAIRE INSTALLATION.
 2. SEE UNDERPASS LIGHTING PLANS FOR INSTALLATION LOCATION OF UNDERPASS LIGHTING LUMINAIRES.
 3. THE CONTRACTOR SHALL USE APPROVED SINGLE COIL FLARED LOOP INSERTS WHEN SUSPENDED MOUNTING AN UNDERPASS LUMINAIRE TO A NEW BRIDGE DECK, THE FLARED LOOP INSERTS MUST BE CAST INTO THE CONCRETE DECK, THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND COORDINATING THE INSERT LOCATIONS FOR MOUNTING THE UNDERPASS LIGHTING SYSTEM AS SHOWN ON THE PLANS WITH THE BRIDGE DECK CONTRACTOR. SEE DETAIL.
 4. THE UNDERPASS LUMINAIRE HANGER ASSEMBLY COMPLETE WITH HEAVY DUTY ANCHORS/INSERTS AND ALL APPLICABLE HARDWARE SHALL BE INCLUDED IN THE COST OF THE UNDERPASS LUMINAIRE PAY ITEM.
 5. SECURE THE CONDUIT WITH PVC COATED CONDUIT CLAMPS OR CONDUIT BEAM CLAMPS AS SHOWN AT 5'-0" INTERVALS FOR LATERALS AND WITHIN 2'-0" MAXIMUM FROM ANY JUNCTION BOX, FLEXIBLE CONDUIT, OR CHANGE IN DIRECTION. ALL PVC COATED CONDUIT CLAMPS OR BEAM CLAMPS SHALL BE INCLUDED WITH THE COST OF THE CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED PAY ITEM.
 6. ALL UNDERPASS LUMINAIRES MUST BE CENTERED IN THE BEAM SPACE AS INDICATED ON THE PLANS UNLESS OTHERWISE DIRECTED BY THE ENGR. LUMINAIRE SETBACK SHALL BE AS INDICATED IN PLANS FOR EACH SPECIFIC UNDERPASS
 7. THE CONCRETE ENCASED CONDUIT TRANSITION SHALL BE INCLUDED IN THE COST OF THE GALVANIZED RIGID STEEL CONDUIT PAY ITEMS.
 8. ALL CONDUIT ATTACHED TO STRUCTURE SHALL BE PVC COATED RIGID STEEL CONDUIT (PVCC RGC) TYPICAL.
 9. IN NO INSTANCE SHALL ANY UNDERPASS LUMINAIRE OR ANY OTHER ELECTRICAL EQUIPMENT BE INSTALLED BELOW THE ELEVATION OF THE BOTTOM OF THE BRIDGE BEAM WHEN OVER ANY PAVEMENT (ROADWAY OR SHOULDER).



EXISTING BRIDGE DECK INSTALLATION

NEW BRIDGE DECK INSTALLATION

TYPICAL LUMINAIRE HANGER ASSEMBLY DETAILS

LUMINAIRE NUMBERING DECAL BRACKET
NOT TO SCALE



AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60515

USER NAME	gag@anobt	DESIGNED	-	REVISED	- 12-12-05
DRAWN	-	REVISIONS	-	REVISED	-
CHECKED	-	REVISIONS	-	REVISED	-
DATE	-	REVISIONS	-	REVISED	-
PLOT SCALE	100.0000 * / In.				
PLOT DATE	3/15/2020				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUSPENDED MOUNT LED UNDERPASS LUMINAIRE INSTALLATION DETAILS			
SCALE: NONE	SHEET 1 OF 1 SHEETS	STA. TO STA.	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			280	200
BE-901			CONTRACT NO.	
ILLINOIS FED. AID PROJECT				