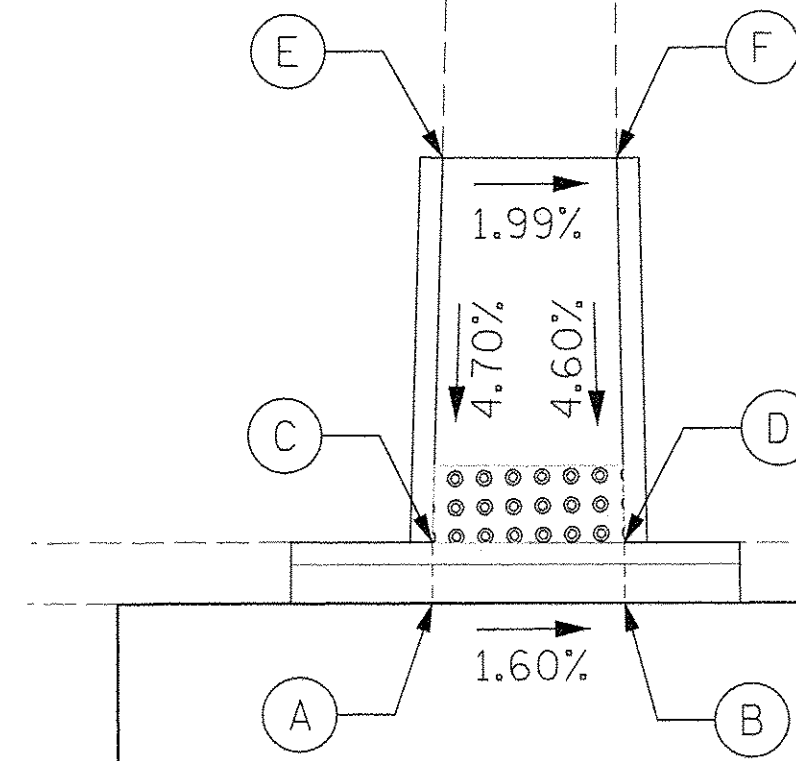
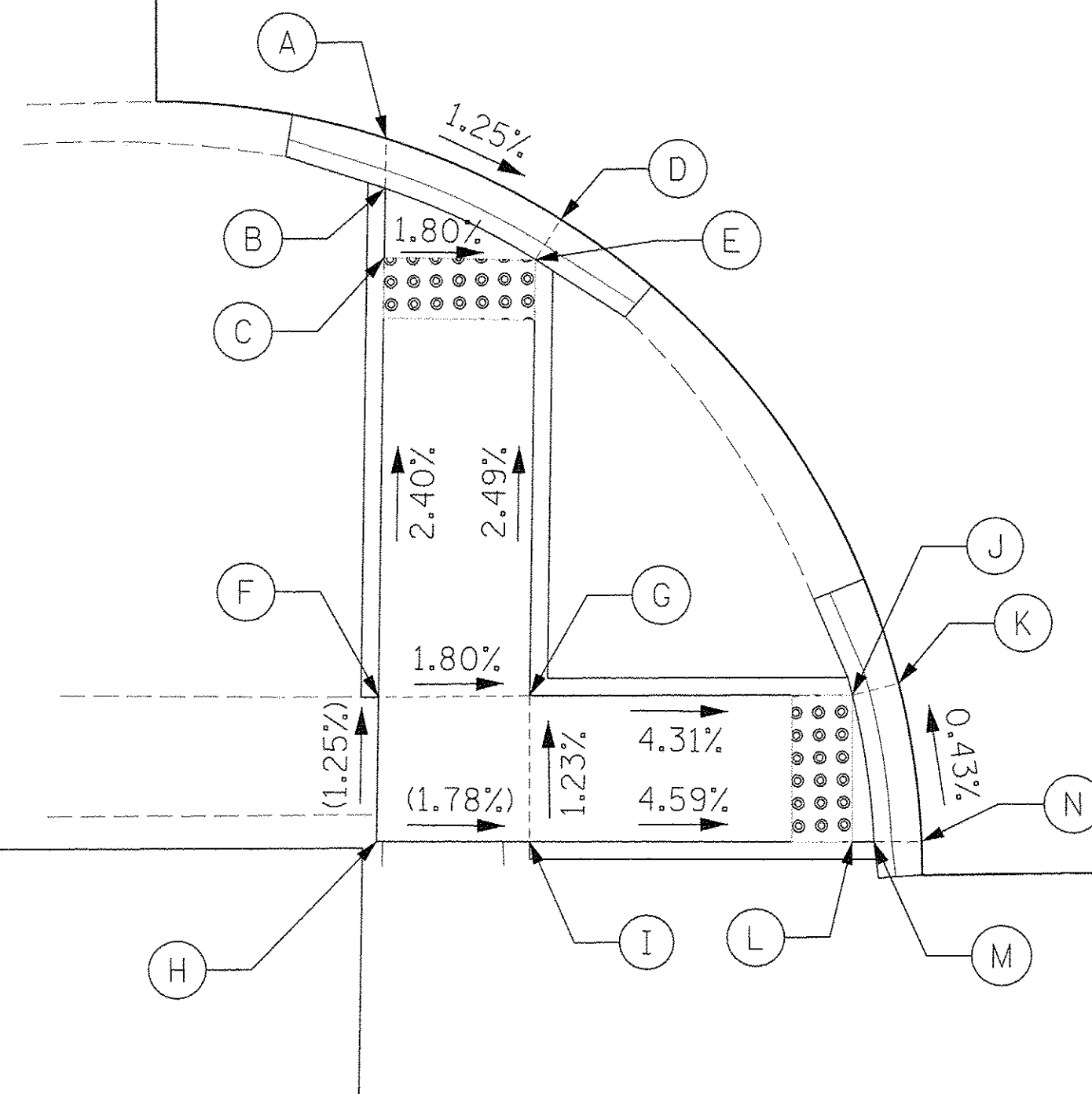




Huntington Drive, SW Corner			
POINT	STA	OFFSET	ELEV
A	48+32.21	17.90' LT	618.68
B	48+37.21	17.90' LT	618.60
C	48+32.21	19.47' LT	618.68
D	48+37.21	19.45' LT	618.60
E	48+32.50	29.46' LT	619.15
F	48+37.02	29.45' LT	619.06

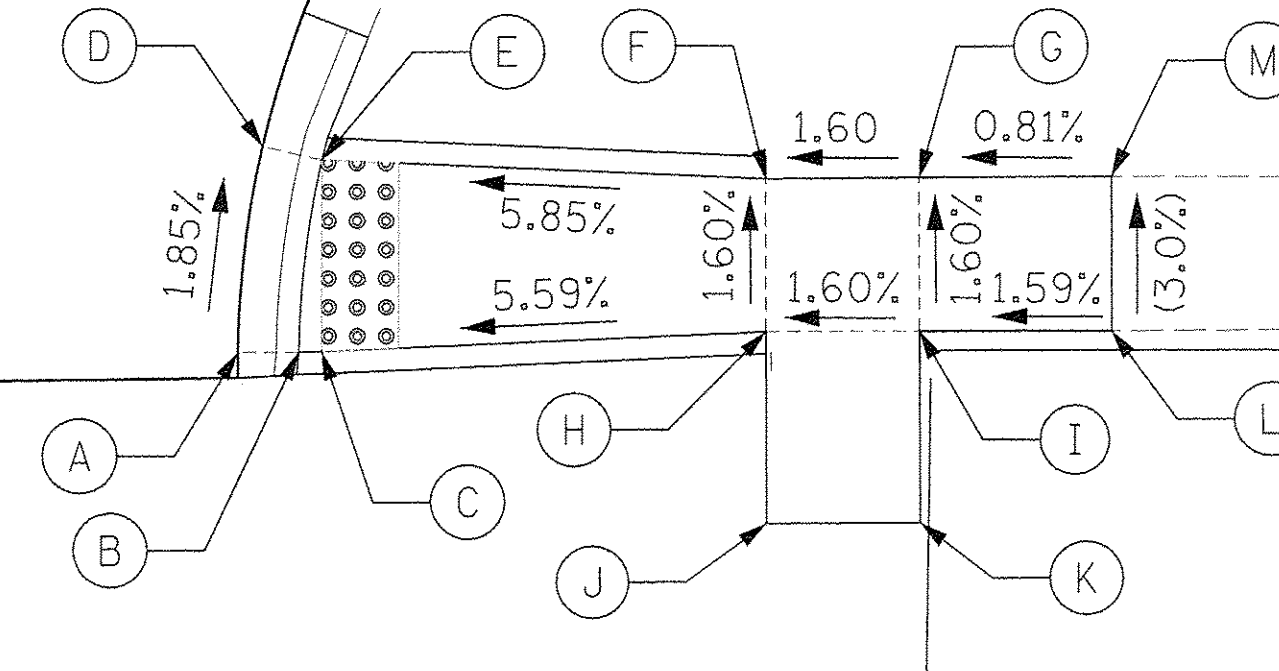


Huntington Drive, SE Corner			
POINT	STA	OFFSET	ELEV
A	48+31.62	19.43' RT	618.15
B	48+31.60	21.09' RT	618.14
C	48+31.56	23.40' RT	618.16
D	48+37.41	22.15' RT	618.07
E	48+36.56	23.48' RT	618.07
F	48+31.33	37.98' RT	618.51
G	48+36.33	37.94' RT	618.42
H	48+31.25	42.78' RT	618.57
I	48+36.31	42.80' RT	618.48
J	48+47.01	37.95' RT	617.96
K	48+48.54	37.57' RT	617.96
L	48+46.99	42.84' RT	617.99
M	48+47.71	42.84' RT	617.98
N	48+49.29	42.84' RT	617.98



**RIVER ROAD**

Huntington Drive NE Corner			
POINT	STA	OFFSET	ELEV
A	48+78.74	42.97' RT	617.92
B	48+80.32	42.97' RT	617.92
C	48+80.92	42.97' RT	617.93
D	48+79.40	37.61' RT	617.82
E	48+80.94	37.97' RT	617.82
F	48+91.54	38.01' RT	618.44
G	48+96.54	38.03' RT	618.52
H	48+91.48	43.01' RT	618.52
I	48+96.49	43.03' RT	618.60
J	48+92.49	47.49' RT	EX
K	48+96.49	47.49' RT	EX
L	49+01.49	42.49' RT	618.68
M	49+01.49	38.46' RT	618.56



EX ROW

EX ROW

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

RIVER ROAD  
SIDEWALK RAMP DETAILS

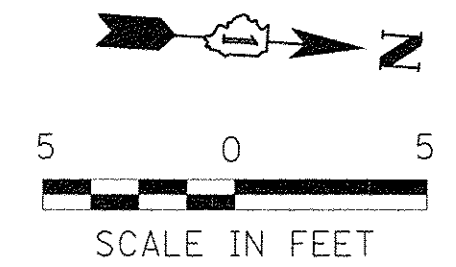
F.A.P. RTE. 607	SECTION 15-00040-00-CH	COUNTY WILL	TOTAL SHEETS 138	SHEET NO. 51
				CONTRACT NO. 61D82

FILE NAME =	USER NAME = jstrick	DESIGNED -	REVISED -
Default		DRAWN -	REVISED -
	PLOT SCALE = 5'	CHECKED -	REVISED -
	PLOT DATE = 2/23/2017	DATE -	REVISED -

SCALE: 5' SHEET 5 OF 9 SHEETS STA. TO STA.

ILLINOIS FED. AID PROJECT

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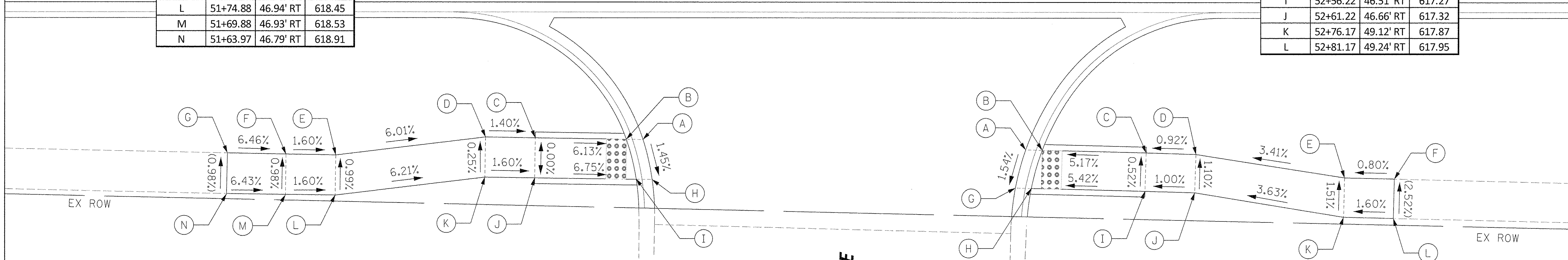
52

CVS River Entrance, SE Corner			
POINT	STA	OFFSET	ELEV
A	52+05.78	41.35' RT	616.87
B	52+04.11	41.33' RT	616.87
C	51+94.97	41.19' RT	617.43
D	51+89.97	41.11' RT	617.50
E	51+74.94	42.92' RT	618.41
F	51+69.94	42.84' RT	618.49
G	51+64.06	42.71' RT	618.87
H	52+06.70	45.37' RT	616.81
I	52+04.10	45.35' RT	616.81
J	51+94.91	45.21' RT	617.43
K	51+89.91	45.13' RT	617.51
L	51+74.88	46.94' RT	618.45
M	51+69.88	46.93' RT	618.53
N	51+63.97	46.79' RT	618.91

CVS River Entrance, NE Corner			
POINT	STA	OFFSET	ELEV
A	52+44.22	42.36' RT	616.71
B	52+45.89	42.40' RT	616.71
C	52+56.34	42.66' RT	617.25
D	52+61.33	44.84' RT	617.30
E	52+76.27	45.15' RT	617.81
F	52+81.27	45.27' RT	617.85
G	52+43.19	46.19' RT	616.65
H	52+44.79	46.23' RT	616.65
I	52+56.22	46.51' RT	617.27
J	52+61.22	46.66' RT	617.32
K	52+76.17	49.12' RT	617.87
L	52+81.17	49.24' RT	617.95

**RIVER ROAD**

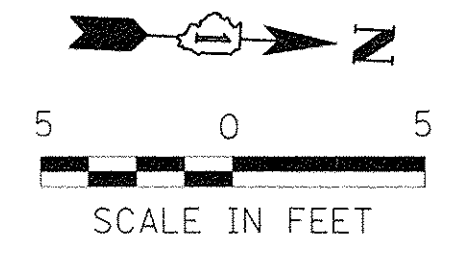
**CVS  
ENTRANCE**



FILE NAME -	USER NAME = jastrick	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>RIVER ROAD SIDEWALK RAMP DETAILS</b>		F.A.P. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default	PLLOT SCALE = 5'	CHECKED -	REVISED -		607	15-00040-00-CH	WILL	138	52		
	PLLOT DATE = 2/23/2017	DATE -	REVISED -		SCALE: 5' SHEET 6 OF 9 SHEETS STA. TO STA.			CONTRACT NO. 61D82			
					ILLINOIS FED. AID PROJECT						

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RIVER ROAD

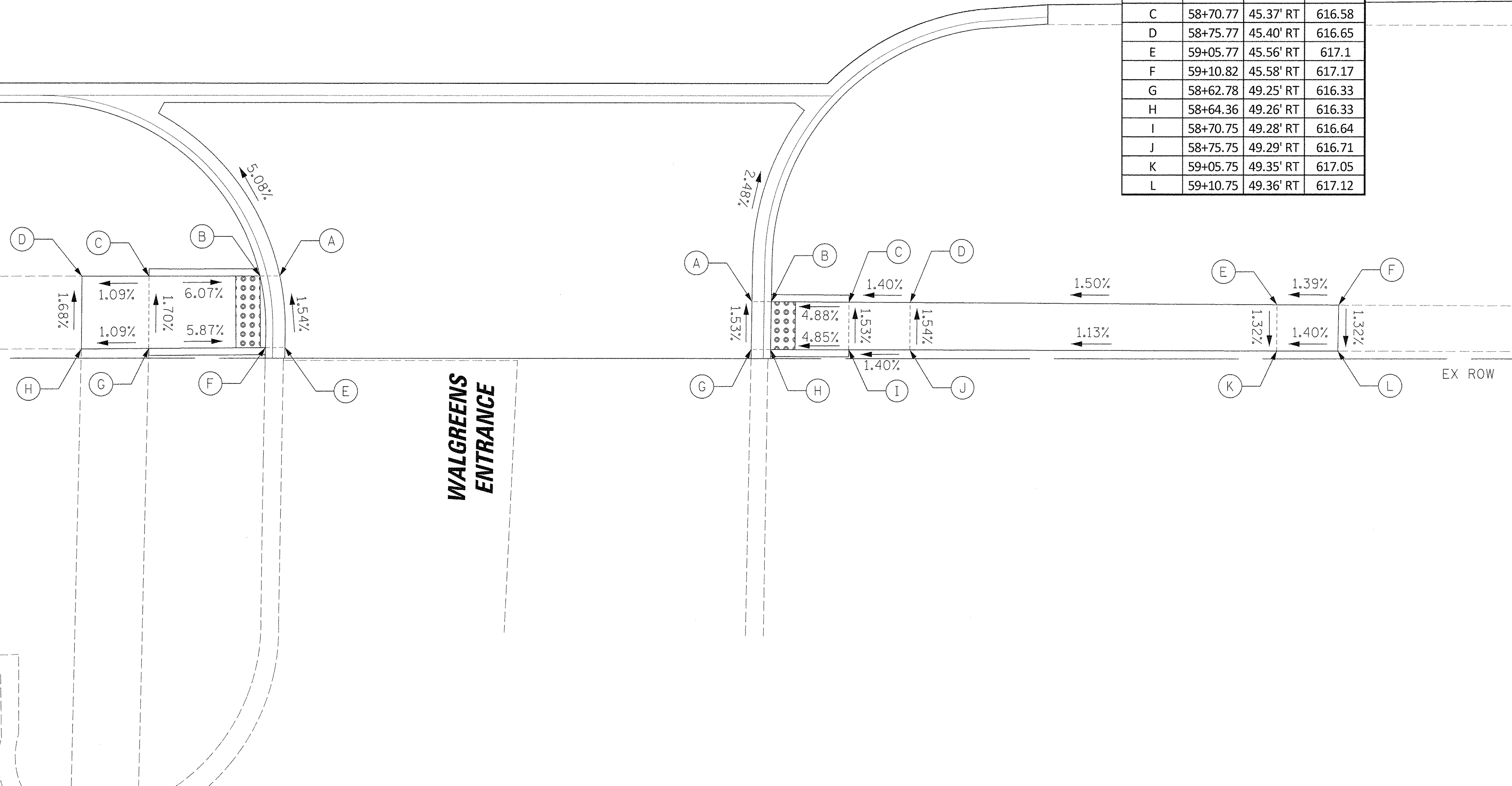


58

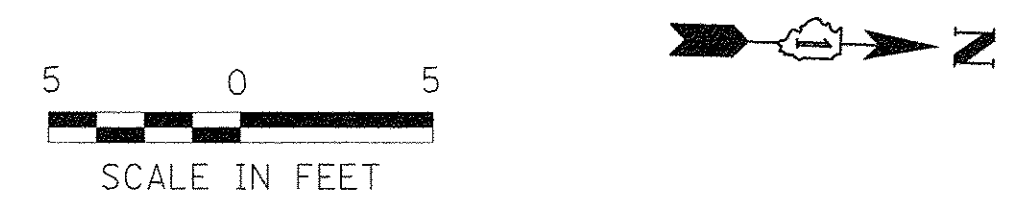
59

Walgreens River Entrance, SE Corner			
POINT	STA	OFFSET	ELEV
A	58+24.25	43.27' RT	616.24
B	58+22.63	43.28' RT	616.24
C	58+13.57	43.32' RT	616.79
D	58+08.09	43.30' RT	616.73
E	58+24.67	49.11' RT	616.33
F	58+23.09	49.13' RT	616.33
G	58+13.55	49.20' RT	616.89
H	58+08.04	49.24' RT	616.83

Walgreens River Entrance, NE Corner			
POINT	STA	OFFSET	ELEV
A	58+62.84	45.33' RT	616.27
B	58+64.42	45.34' RT	616.27
C	58+70.77	45.37' RT	616.58
D	58+75.77	45.40' RT	616.65
E	59+05.77	45.56' RT	617.1
F	59+10.82	45.58' RT	617.17
G	58+62.78	49.25' RT	616.33
H	58+64.36	49.26' RT	616.33
I	58+70.75	49.28' RT	616.64
J	58+75.75	49.29' RT	616.71
K	59+05.75	49.35' RT	617.05
L	59+10.75	49.36' RT	617.12

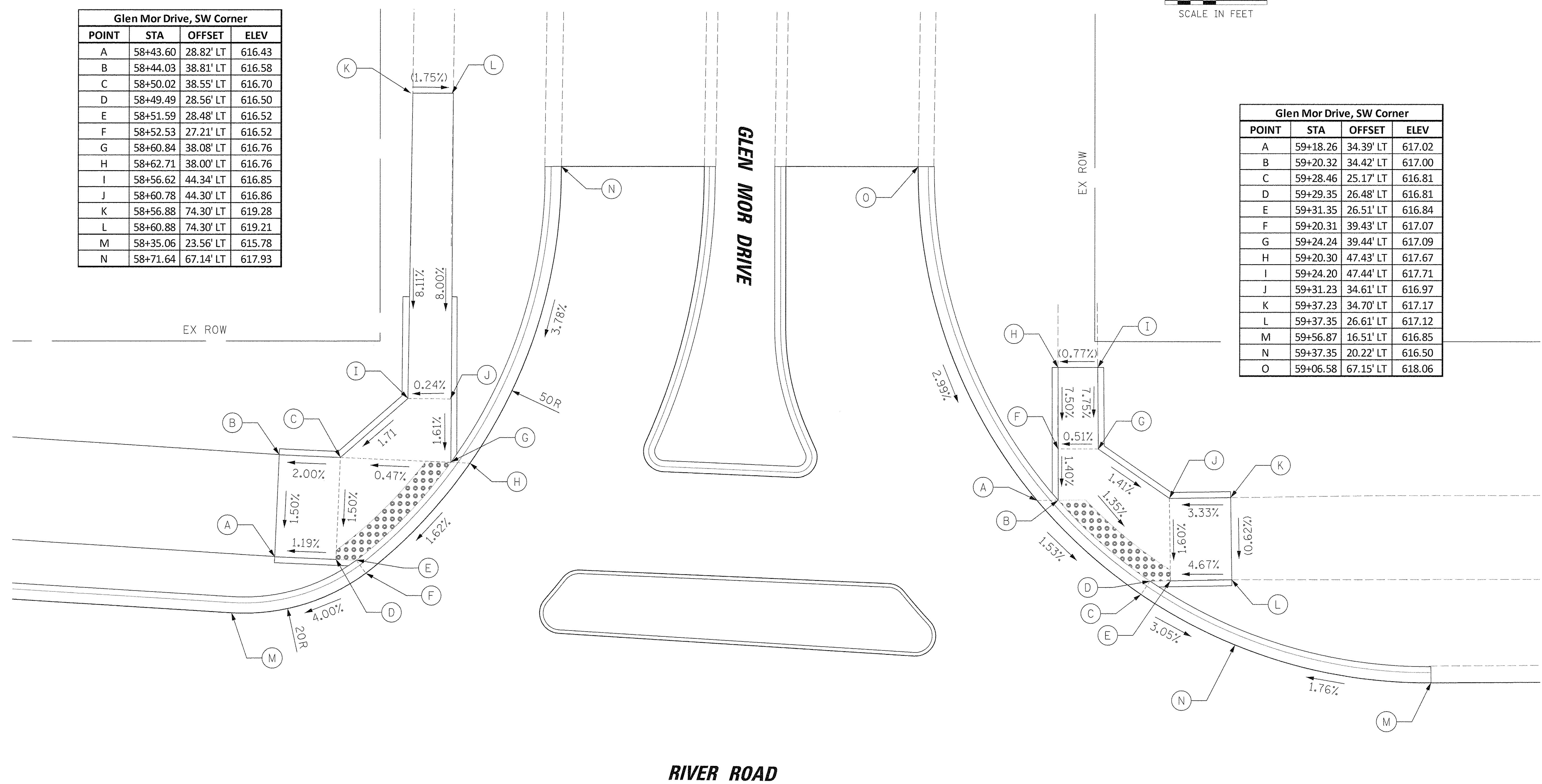


FILE NAME =	USER NAME = jstrick	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>RIVER ROAD SIDEWALK RAMP DETAILS</b>		F.A.P. RTE. 607	SECTION 15-00040-00-CH	COUNTY WILL	TOTAL SHEETS 138	SHEET NO. 53	
Default	PLOT SCALE = 5'	CHECKED -	REVISED -		SCALE: 5'	SHEET 7 OF 9 SHEETS	STA.	TO STA.	CONTRACT NO. 61D82			
	PLOT DATE = 2/23/2017	DATE -	REVISED -						ILLINOIS FED. AID PROJECT			
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Glen Mor Drive, SW Corner			
POINT	STA	OFFSET	ELEV
A	58+43.60	28.82' LT	616.43
B	58+44.03	38.81' LT	616.58
C	58+50.02	38.55' LT	616.70
D	58+49.49	28.56' LT	616.50
E	58+51.59	28.48' LT	616.52
F	58+52.53	27.21' LT	616.52
G	58+60.84	38.08' LT	616.76
H	58+62.71	38.00' LT	616.76
I	58+56.62	44.34' LT	616.85
J	58+60.78	44.30' LT	616.86
K	58+56.88	74.30' LT	619.28
L	58+60.88	74.30' LT	619.21
M	58+35.06	23.56' LT	615.78
N	58+71.64	67.14' LT	617.93

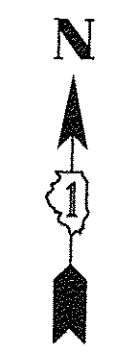
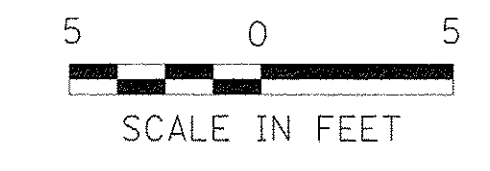
Glen Mor Drive, SW Corner			
POINT	STA	OFFSET	ELEV
A	59+18.26	34.39' LT	617.02
B	59+20.32	34.42' LT	617.00
C	59+28.46	25.17' LT	616.81
D	59+29.35	26.48' LT	616.81
E	59+31.35	26.51' LT	616.84
F	59+20.31	39.43' LT	617.07
G	59+24.24	39.44' LT	617.09
H	59+20.30	47.43' LT	617.67
I	59+24.20	47.44' LT	617.71
J	59+31.23	34.61' LT	616.97
K	59+37.23	34.70' LT	617.17
L	59+37.35	26.61' LT	617.12
M	59+56.87	16.51' LT	616.85
N	59+37.35	20.22' LT	616.50
O	59+06.58	67.15' LT	618.06



1.59

FILE NAME =	USER NAME = jstrick	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>RIVER ROAD SIDEWALK RAMP DETAILS</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default	PLT SCALE = 5'	DRAWN -	REVISED -			607	15-00040-00-CH	WILL	138	54	
	PLT DATE = 2/23/2017	CHECKED -	REVISED -			CONTRACT NO. 61D82					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
					SCALE: 5'	SHEET 8 OF 9 SHEETS		STA.	TO STA.		





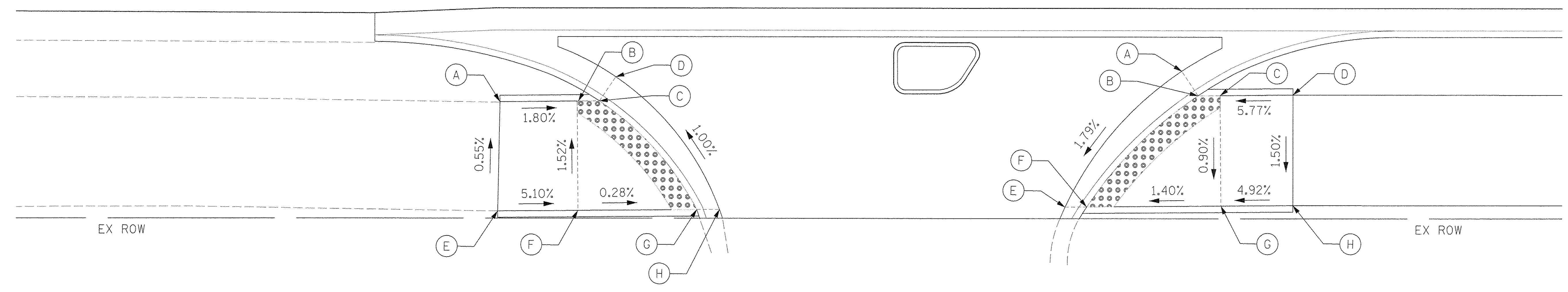
28

29

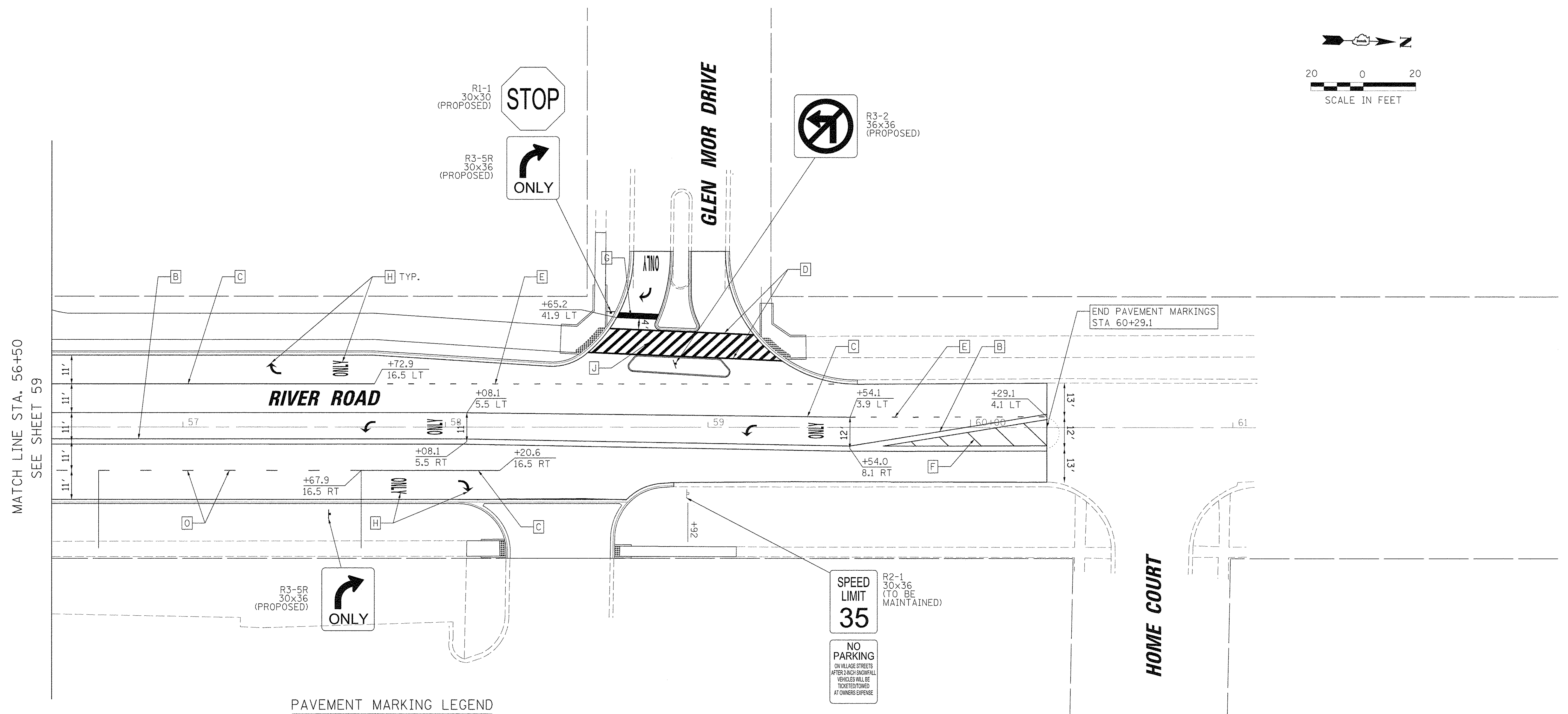
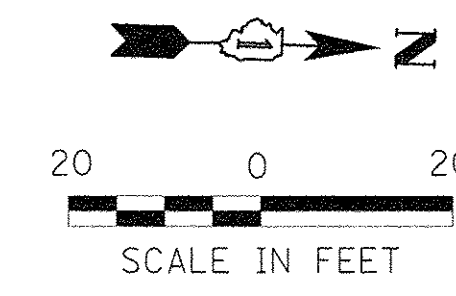
CVS US52 Entrance, SW Corner			
POINT	STA	OFFSET	ELEV
A	28+63.43	39.46' RT	614.88
B	28+43.41	39.40' RT	614.52
C	28+45.41	39.39' RT	614.49
D	28+46.90	37.21' RT	614.55
E	28+36.23	49.36' RT	615.04
F	28+43.48	49.30' RT	614.67
G	28+54.22	49.22' RT	614.64
H	28+56.27	49.20' RT	614.70

**US52 (JEFFERSON STREET)**

CVS US52 Entrance, SE Corner			
POINT	STA	OFFSET	ELEV
A	28+98.05	36.66' RT	614.55
B	28+99.53	38.87' RT	614.49
C	29+01.53	38.86' RT	614.52
D	29+08.11	38.80' RT	614.90
E	28+87.51	48.96' RT	614.26
F	28+89.46	48.95' RT	614.26
G	29+01.60	48.85' RT	614.43
H	29+08.11	48.80' RT	614.75







MATCH LINE STA. 56+50  
SEE SHEET 59

END PAVEMENT MARKINGS  
STA 60+29.1

**PAVEMENT MARKING LEGEND**

- |  |  |
|--|--|
| <p><b>A</b> THERMOPLASTIC PAVEMENT MARKING - LINE 4", WHITE SKIP-DASH (10' LINE - 30' SPACE) WITH RAISED REFLECTIVE PAVEMENT MARKERS, TWO ONE-WAY CRYSTALS (SPACED AT 80' C-C)</p> <p><b>B</b> THERMOPLASTIC PAVEMENT MARKING - LINE 4", DOUBLE YELLOW (11" C-C) WITH RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER (SPACED AT 40' C-C)</p> <p><b>C</b> THERMOPLASTIC PAVEMENT MARKING - LINE 6", WHITE WITH RAISED REFLECTIVE PAVEMENT MARKERS. ONE-WAY CRYSTAL (SPACED AT 40' C-C)</p> <p><b>D</b> THERMOPLASTIC PAVEMENT MARKING - LINE 6", WHITE</p> <p><b>E</b> THERMOPLASTIC PAVEMENT MARKING - LINE 6", WHITE DOTTED (2' LINE - 6' SKIP, UNLESS OTHERWISE NOTED)</p> <p><b>F</b> THERMOPLASTIC PAVEMENT MARKING - LINE 12", YELLOW (75' C-C)</p> <p><b>G</b> THERMOPLASTIC PAVEMENT MARKING - LINE 24", WHITE</p> | <p><b>H</b> THERMOPLASTIC PAVEMENT MARKING, LETTERS &amp; SYMBOLS</p> <p><b>I</b> THERMOPLASTIC PAVEMENT MARKING - LINE 8", WHITE</p> <p><b>J</b> THERMOPLASTIC PAVEMENT MARKING - LINE 12", WHITE (24" C-C)</p> <p><b>K</b> THERMOPLASTIC PAVEMENT MARKING - LINE 12", WHITE (10' C-C)</p> <p><b>L</b> THERMOPLASTIC PAVEMENT MARKING - LINE 4", YELLOW</p> <p><b>M</b> THERMOPLASTIC PAVEMENT MARKING - LINE 4", YELLOW SKIP-DASH 10'-30'</p> <p><b>N</b> THERMOPLASTIC PAVEMENT MARKING - LINE 4", WHITE</p> <p><b>O</b> THERMOPLASTIC PAVEMENT MARKING - LINE 12", WHITE (3' LINE - 9' SKIP)</p> |
|--|--|

NOTE: PAVEMENT MARKINGS ON RIVER ROAD SHALL BE RECESSED

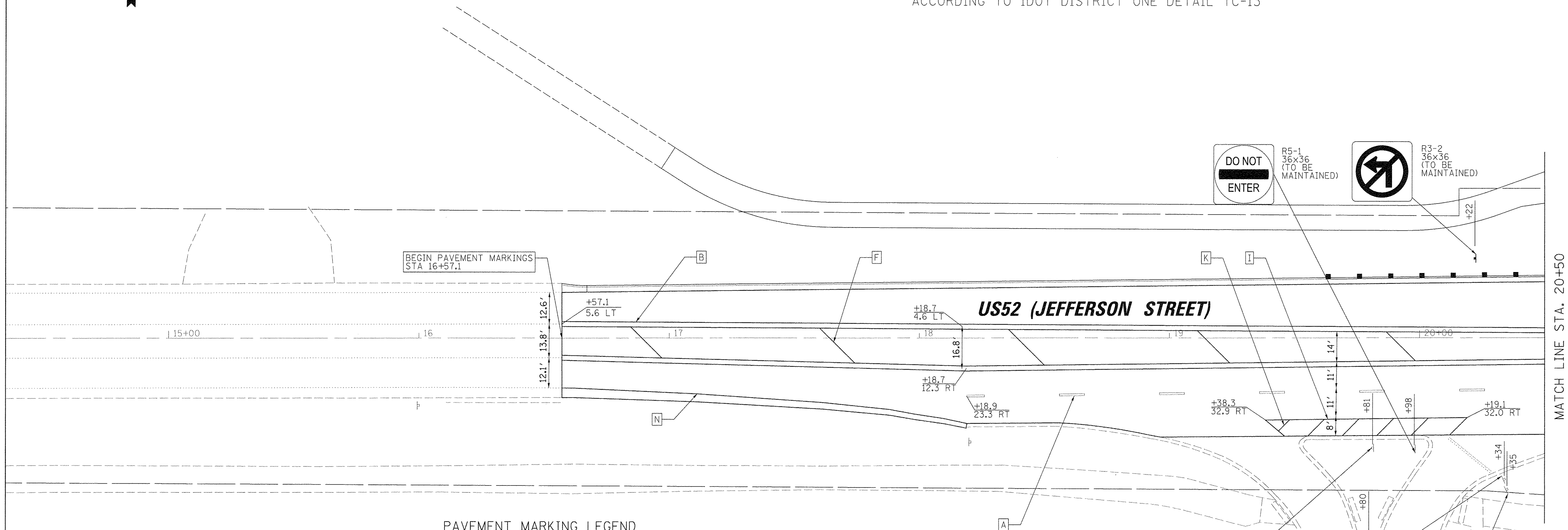
1. RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED ACCORDING TO IDOT DISTRICT ONE DETAIL TC-11
2. PAVEMENT MARKINGS SHALL BE INSTALLED ACCORDING TO IDOT DISTRICT ONE DETAIL TC-13

FILE NAME =	USER NAME = jsitriek	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>RIVER ROAD PAVEMENT MARKING AND SIGNING PLANS</b>	F.A.P. RTE. 607	SECTION 15-00040-00-CH	COUNTY WILL	TOTAL SHEETS 138	SHEET NO. 57		
Default	PLOT SCALE = 20'	CHECKED -	REVISED -			SCALE: 20'	SHEET 2 OF 6 SHEETS	STA. 56+50 TO STA. 60+29.1		ILLINOIS FED. AID PROJECT		
	PLOT DATE = 2/23/2017	DATE -	REVISED -			CONTRACT NO. 61D82						
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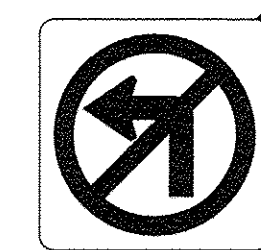
1. RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED ACCORDING TO IDOT DISTRICT ONE DETAIL TC-11

2. PAVEMENT MARKINGS SHALL BE INSTALLED ACCORDING TO IDOT DISTRICT ONE DETAIL TC-13

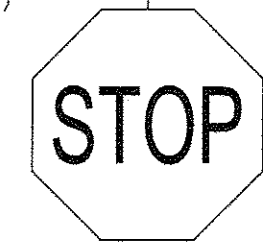


**PAVEMENT MARKING LEGEND**

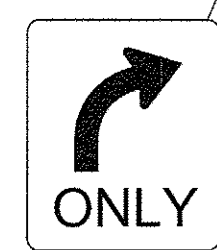
- |   |   |
|---|---|
| <b>A</b> THERMOPLASTIC PAVEMENT MARKING - LINE 4", WHITE SKIP-DASH (10' LINE - 30' SPACE) WITH RAISED REFLECTIVE PAVEMENT MARKERS, TWO ONE-WAY CRYSTALS (SPACED AT 80' C-C) | <b>H</b> THERMOPLASTIC PAVEMENT MARKING, LETTERS & SYMBOLS                    |
| <b>B</b> THERMOPLASTIC PAVEMENT MARKING - LINE 4", DOUBLE YELLOW (11" C-C) WITH RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER (SPACED AT 40' C-C)                       | <b>I</b> THERMOPLASTIC PAVEMENT MARKING - LINE 8", WHITE                      |
| <b>C</b> THERMOPLASTIC PAVEMENT MARKING - LINE 6", WHITE WITH RAISED REFLECTIVE PAVEMENT MARKERS. ONE-WAY CRYSTAL (SPACED AT 40' C-C)                                       | <b>J</b> THERMOPLASTIC PAVEMENT MARKING - LINE 12", WHITE (24" C-C)           |
| <b>D</b> THERMOPLASTIC PAVEMENT MARKING - LINE 6", WHITE  | <b>K</b> THERMOPLASTIC PAVEMENT MARKING - LINE 12", WHITE (10' C-C)           |
| <b>E</b> THERMOPLASTIC PAVEMENT MARKING - LINE 6", WHITE DOTTED (2' LINE - 6' SKIP, UNLESS OTHERWISE NOTED)   | <b>L</b> THERMOPLASTIC PAVEMENT MARKING - LINE 4", YELLOW                     |
| <b>F</b> THERMOPLASTIC PAVEMENT MARKING - LINE 12", YELLOW (75' C-C)  | <b>M</b> THERMOPLASTIC PAVEMENT MARKING - LINE 4", YELLOW SKIP-DASH 10'-30'   |
| <b>G</b> THERMOPLASTIC PAVEMENT MARKING - LINE 24", WHITE   | <b>N</b> THERMOPLASTIC PAVEMENT MARKING - LINE 4", WHITE                      |
|   | <b>O</b> THERMOPLASTIC PAVEMENT MARKING - LINE 12", WHITE (3' LINE - 9' SKIP) |



R3-2  
36x36  
(TO BE MAINTAINED)



R1-1  
30x30  
(TO BE MAINTAINED)



R3-5R  
30x36  
(TO BE MAINTAINED)

FILE NAME =	USER NAME = js1trick	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>US ROUTE 52 (JEFFERSON STREET) PAVEMENT MARKING AND SIGNING PLANS</b>			F.A.P. RTE. 607	SECTION 15-00040-00-CH	COUNTY WILL	TOTAL SHEETS 138	SHEET NO. 58
Default	PLDT SCALE = 20'	CHECKED -	REVISED -		SCALE: 20'	SHEET 3 OF 6 SHEETS	STA. 16+57.1 TO STA. 20+50	CONTRACT NO. 61D82		ILLINOIS FED. AID PROJECT		
	PLDT DATE = 2/23/2017	DATE -	REVISED -									
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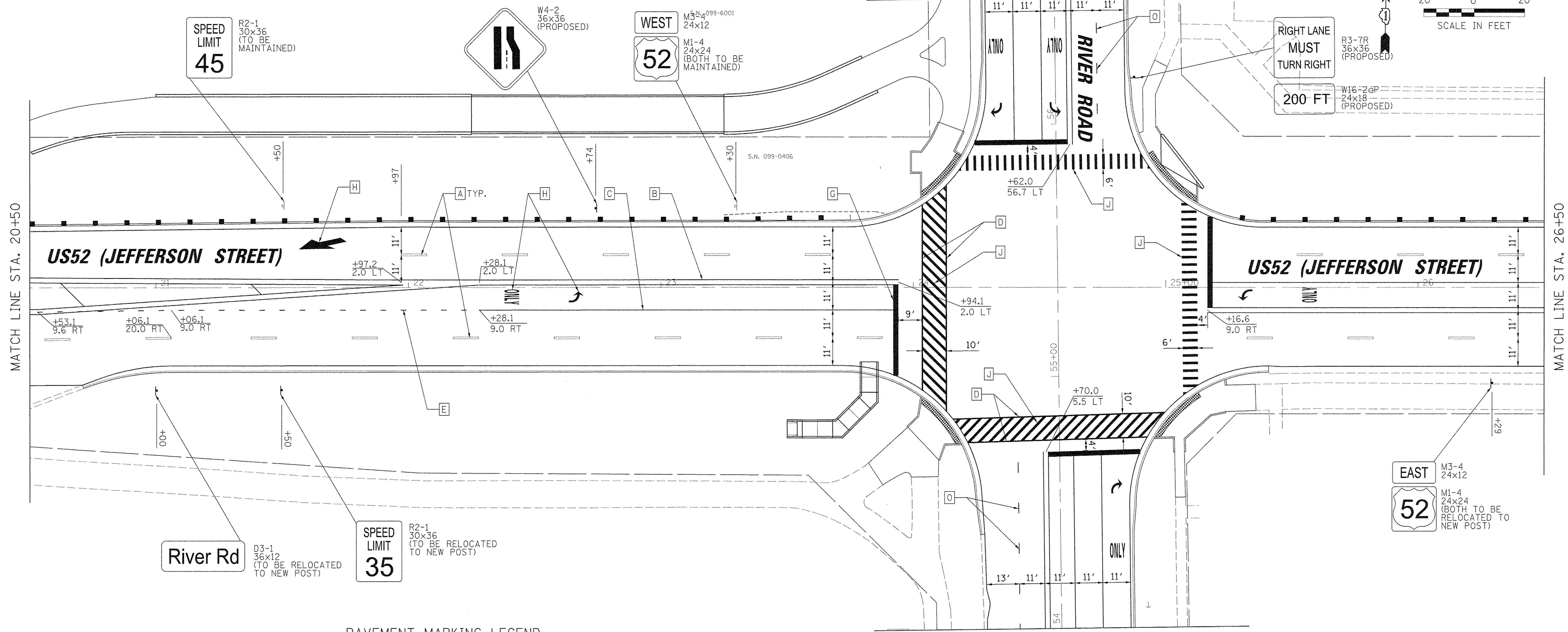


SEE SHEET 57  
MATCH LINE STA. 56+50



MATCH LINE STA. 20+50

MATCH LINE STA. 26+50



MATCH LINE STA. 54+00  
SEE SHEET 56

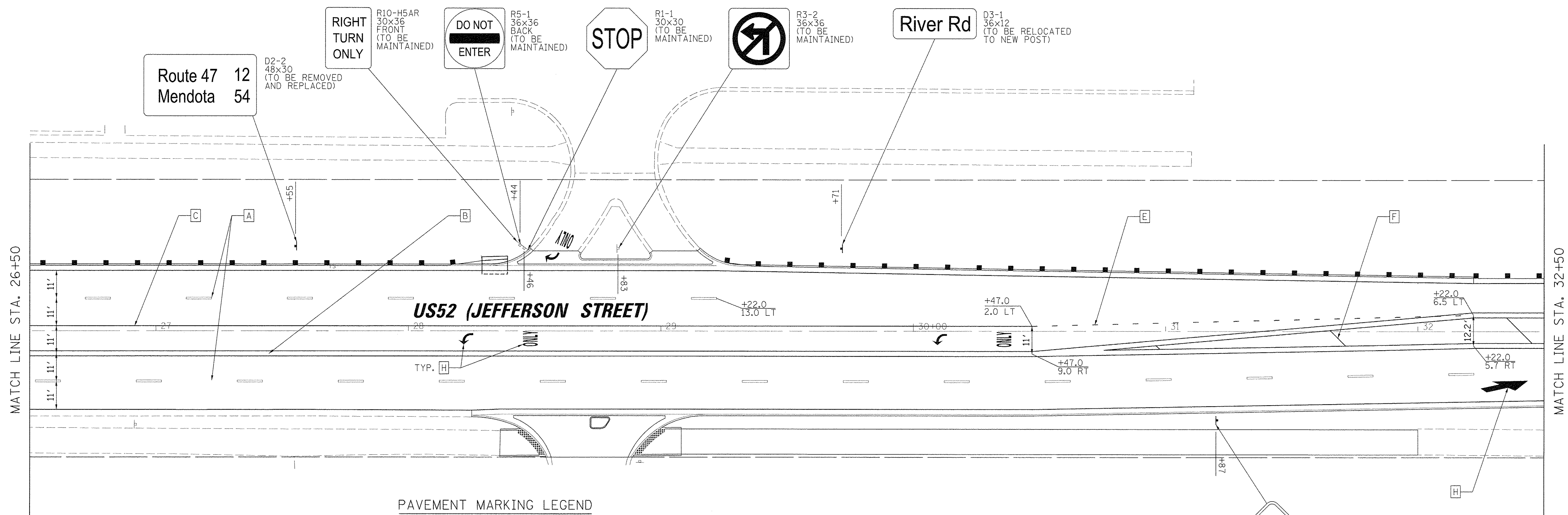
**PAVEMENT MARKING LEGEND**

- |  |  |
|--|--|
| <p><b>A</b> THERMOPLASTIC PAVEMENT MARKING - LINE 4", WHITE SKIP-DASH (10' LINE - 30' SPACE) WITH RAISED REFLECTIVE PAVEMENT MARKERS, TWO ONE-WAY CRYSTALS (SPACED AT 80' C-C)</p> <p><b>B</b> THERMOPLASTIC PAVEMENT MARKING - LINE 4", DOUBLE YELLOW (11" C-C) WITH RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER (SPACED AT 40' C-C)</p> <p><b>C</b> THERMOPLASTIC PAVEMENT MARKING - LINE 6", WHITE WITH RAISED REFLECTIVE PAVEMENT MARKERS. ONE-WAY CRYSTAL (SPACED AT 40' C-C)</p> <p><b>D</b> THERMOPLASTIC PAVEMENT MARKING - LINE 6", WHITE</p> <p><b>E</b> THERMOPLASTIC PAVEMENT MARKING - LINE 6", WHITE DOTTED (2' LINE - 6' SKIP, UNLESS OTHERWISE NOTED)</p> <p><b>F</b> THERMOPLASTIC PAVEMENT MARKING - LINE 12", YELLOW (75' C-C)</p> <p><b>G</b> THERMOPLASTIC PAVEMENT MARKING - LINE 24", WHITE</p> | <p><b>H</b> THERMOPLASTIC PAVEMENT MARKING, LETTERS &amp; SYMBOLS</p> <p><b>I</b> THERMOPLASTIC PAVEMENT MARKING - LINE 8", WHITE</p> <p><b>J</b> THERMOPLASTIC PAVEMENT MARKING - LINE 12", WHITE (24" C-C)</p> <p><b>K</b> THERMOPLASTIC PAVEMENT MARKING - LINE 12", WHITE (10' C-C)</p> <p><b>L</b> THERMOPLASTIC PAVEMENT MARKING - LINE 4", YELLOW</p> <p><b>M</b> THERMOPLASTIC PAVEMENT MARKING - LINE 4", YELLOW SKIP-DASH 10'-30'</p> <p><b>N</b> THERMOPLASTIC PAVEMENT MARKING - LINE 4", WHITE</p> <p><b>O</b> THERMOPLASTIC PAVEMENT MARKING - LINE 12", WHITE (3' LINE - 9' SKIP)</p> |
|--|--|

NOTE: PAVEMENT MARKINGS ON RIVER ROAD SHALL BE RECESSED

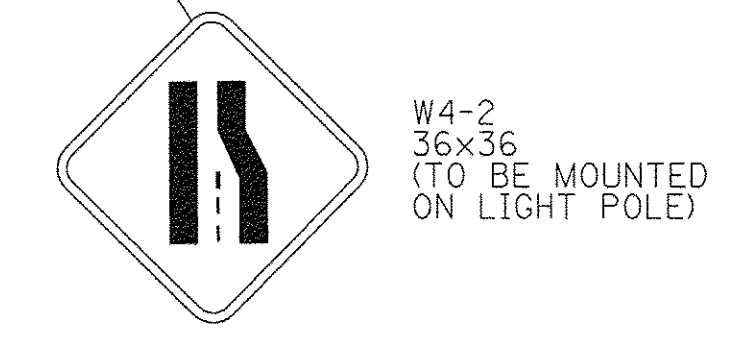
1. RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED ACCORDING TO IDOT DISTRICT ONE DETAIL TC-11
2. PAVEMENT MARKINGS SHALL BE INSTALLED ACCORDING TO IDOT DISTRICT ONE DETAIL TC-13
3. CROSSWALKS ON NORTH AND EAST LEGS OF INTERSECTION SHOULD NOT BE INSTALLED UNTIL PERMANENT SIGNALS ARE OPERATIONAL

FILE NAME =	USER NAME = jstrick	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>US ROUTE 52 (JEFFERSON STREET) PAVEMENT MARKING AND SIGNING PLANS</b>		F.A.P. RTE. 607	SECTION 15-00040-00-CH	COUNTY WILL	TOTAL SHEETS 138	SHEET NO. 59	
Default	PLOT SCALE = 20'	CHECKED -	REVISED -		SCALE: 20'	SHEET 4 OF 6 SHEETS	STA. 20+50 TO STA. 26+50	CONTRACT NO. 61D82				
	PLOT DATE = 2/23/2017	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							
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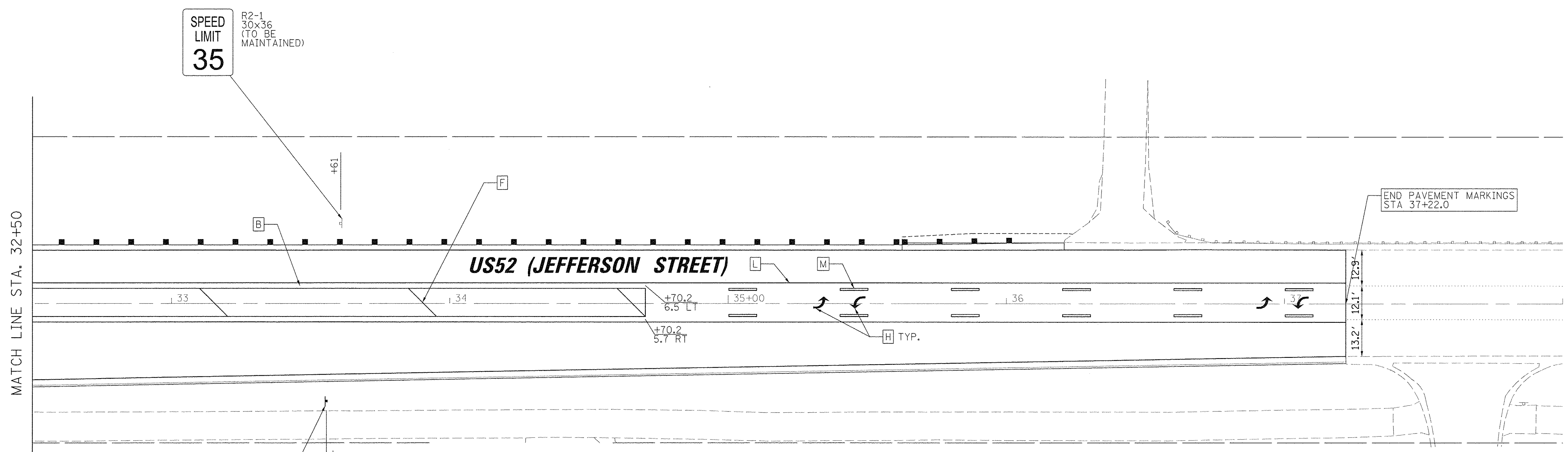
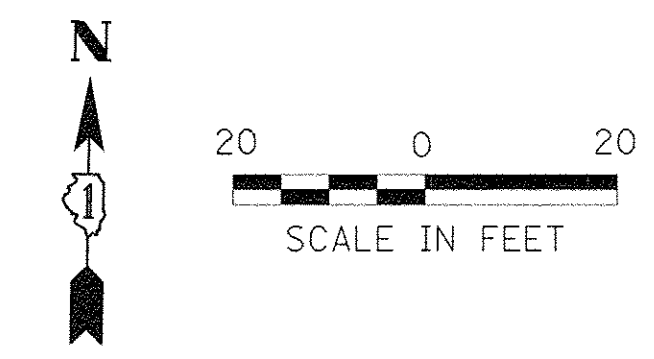
**PAVEMENT MARKING LEGEND**

- |  |  |
|--|--|
| <p><b>A</b> THERMOPLASTIC PAVEMENT MARKING - LINE 4", WHITE SKIP-DASH (10' LINE - 30' SPACE) WITH RAISED REFLECTIVE PAVEMENT MARKERS, TWO ONE-WAY CRYSTALS (SPACED AT 80' C-C)</p> <p><b>B</b> THERMOPLASTIC PAVEMENT MARKING - LINE 4", DOUBLE YELLOW (11" C-C) WITH RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER (SPACED AT 40' C-C)</p> <p><b>C</b> THERMOPLASTIC PAVEMENT MARKING - LINE 6", WHITE WITH RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL (SPACED AT 40' C-C)</p> <p><b>D</b> THERMOPLASTIC PAVEMENT MARKING - LINE 6", WHITE</p> <p><b>E</b> THERMOPLASTIC PAVEMENT MARKING - LINE 6", WHITE DOTTED (2' LINE - 6' SKIP, UNLESS OTHERWISE NOTED)</p> <p><b>F</b> THERMOPLASTIC PAVEMENT MARKING - LINE 12", YELLOW (75' C-C)</p> <p><b>G</b> THERMOPLASTIC PAVEMENT MARKING - LINE 24", WHITE</p> | <p><b>H</b> THERMOPLASTIC PAVEMENT MARKING, LETTERS &amp; SYMBOLS</p> <p><b>I</b> THERMOPLASTIC PAVEMENT MARKING - LINE 8", WHITE</p> <p><b>J</b> THERMOPLASTIC PAVEMENT MARKING - LINE 12", WHITE (24" C-C)</p> <p><b>K</b> THERMOPLASTIC PAVEMENT MARKING - LINE 12", WHITE (10' C-C)</p> <p><b>L</b> THERMOPLASTIC PAVEMENT MARKING - LINE 4", YELLOW</p> <p><b>M</b> THERMOPLASTIC PAVEMENT MARKING - LINE 4", YELLOW SKIP-DASH 10'-30'</p> <p><b>N</b> THERMOPLASTIC PAVEMENT MARKING - LINE 4", WHITE</p> <p><b>O</b> THERMOPLASTIC PAVEMENT MARKING - LINE 12", WHITE (3' LINE - 9' SKIP)</p> |
|--|--|



1. RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED ACCORDING TO IDOT DISTRICT ONE DETAIL TC-11
2. PAVEMENT MARKINGS SHALL BE INSTALLED ACCORDING TO IDOT DISTRICT ONE DETAIL TC-13

FILE NAME =	USER NAME = jstrick	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>US ROUTE 52 (JEFFERSON STREET) PAVEMENT MARKING AND SIGNING PLANS</b>	F.A.P. R/E. 607	SECTION 15-00040-00-CH	COUNTY WILL	TOTAL SHEETS 138	SHEET NO. 60		
Default	PLOT SCALE = 20'	CHECKED -	REVISED -			SCALE: 20'	SHEET 5 OF 6 SHEETS	STA. 26+50	TO STA. 32+50	CONTRACT NO. 61D82		
	PLOT DATE = 2/23/2017	DATE -	REVISED -			ILLINOIS FED. AID PROJECT						
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**PAVEMENT MARKING LEGEND**

- |  |  |
|--|--|
| <p><b>A</b> THERMOPLASTIC PAVEMENT MARKING - LINE 4", WHITE SKIP-DASH (10' LINE - 30' SPACE) WITH RAISED REFLECTIVE PAVEMENT MARKERS, TWO ONE-WAY CRYSTALS (SPACED AT 80' C-C)</p> <p><b>B</b> THERMOPLASTIC PAVEMENT MARKING - LINE 4", DOUBLE YELLOW (11" C-C) WITH RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER (SPACED AT 40' C-C)</p> <p><b>C</b> THERMOPLASTIC PAVEMENT MARKING - LINE 6", WHITE WITH RAISED REFLECTIVE PAVEMENT MARKERS. ONE-WAY CRYSTAL (SPACED AT 40' C-C)</p> <p><b>D</b> THERMOPLASTIC PAVEMENT MARKING - LINE 6", WHITE</p> <p><b>E</b> THERMOPLASTIC PAVEMENT MARKING - LINE 6", WHITE DOTTED (2' LINE - 6' SKIP, UNLESS OTHERWISE NOTED)</p> <p><b>F</b> THERMOPLASTIC PAVEMENT MARKING - LINE 12", YELLOW (75' C-C)</p> <p><b>G</b> THERMOPLASTIC PAVEMENT MARKING - LINE 24", WHITE</p> | <p><b>H</b> THERMOPLASTIC PAVEMENT MARKING, LETTERS &amp; SYMBOLS</p> <p><b>I</b> THERMOPLASTIC PAVEMENT MARKING - LINE 8", WHITE</p> <p><b>J</b> THERMOPLASTIC PAVEMENT MARKING - LINE 12", WHITE (24" C-C)</p> <p><b>K</b> THERMOPLASTIC PAVEMENT MARKING - LINE 12", WHITE (10' C-C)</p> <p><b>L</b> THERMOPLASTIC PAVEMENT MARKING - LINE 4", YELLOW</p> <p><b>M</b> THERMOPLASTIC PAVEMENT MARKING - LINE 4", YELLOW SKIP-DASH 10'-30'</p> <p><b>N</b> THERMOPLASTIC PAVEMENT MARKING - LINE 4", WHITE</p> <p><b>O</b> THERMOPLASTIC PAVEMENT MARKING - LINE 12", WHITE (3' LINE - 9' SKIP)</p> |
|--|--|

1. RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED ACCORDING TO IDOT DISTRICT ONE DETAIL TC-11
2. PAVEMENT MARKINGS SHALL BE INSTALLED ACCORDING TO IDOT DISTRICT ONE DETAIL TC-13

FILE NAME -	USER NAME - jstrick	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>US ROUTE 52 (JEFFERSON STREET) PAVEMENT MARKING AND SIGNING PLANS</b>			F.A.P. RTE. 607	SECTION 15-00040-00-CH	COUNTY WILL	TOTAL SHEETS 138	SHEET NO. 61
Default	PLOT SCALE = 20'	CHECKED -	REVISED -		SCALE: 20'	SHEET 6 OF 6 SHEETS	STA. 32+50 TO STA. 37+22.0	CONTRACT NO. 61D82				
	PLOT DATE = 2/23/2017	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							
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# TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

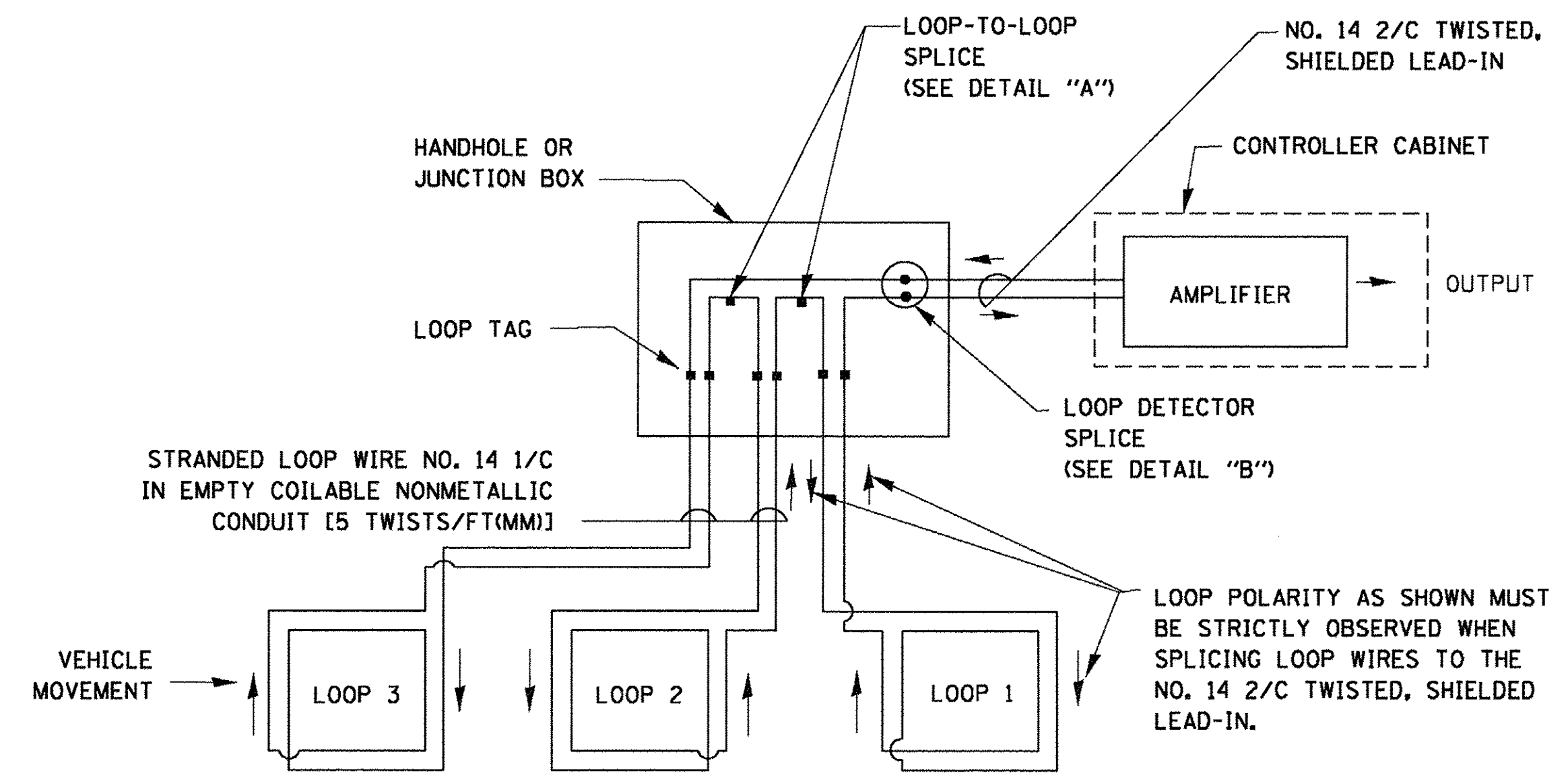
ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED
CONTROLLER CABINET			HANDHOLE -SQUARE -ROUND	 	 	SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD		
COMMUNICATION CABINET			HEAVY DUTY HANDHOLE -SQUARE -ROUND	 	 	SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE 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			FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F	  	  
WOOD POLE			INTERSECTION ITEM			GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE	   	   
GUY WIRE			REMOVE ITEM					
SIGNAL HEAD			RELOCATE ITEM					
SIGNAL HEAD WITH BACKPLATE			ABANDON ITEM					
SIGNAL HEAD OPTICALLY PROGRAMMED			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED					
FLASHER INSTALLATION -(FS) SOLAR POWERED	 	 	MAST ARM POLE AND FOUNDATION TO BE REMOVED					
PEDESTRIAN SIGNAL HEAD			SIGNAL POST AND FOUNDATION TO BE REMOVED					
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					
CONFIMATION BEACON			WIRELESS ACCESS POINT					
WIRELESS INTERCONNECT								
WIRELESS INTERCONNECT RADIO REPEATER								

TS SHEET NO. 1



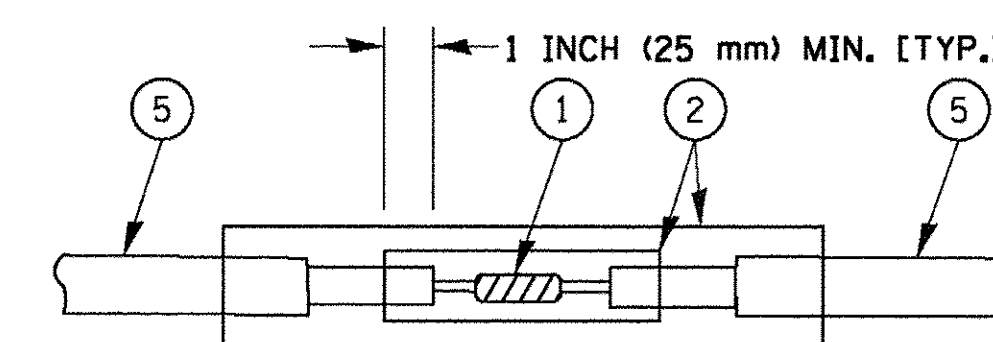
**LOOP DETECTOR NOTES**

- 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.
- 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.
- 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.
- ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- 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.
- 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.
- 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.

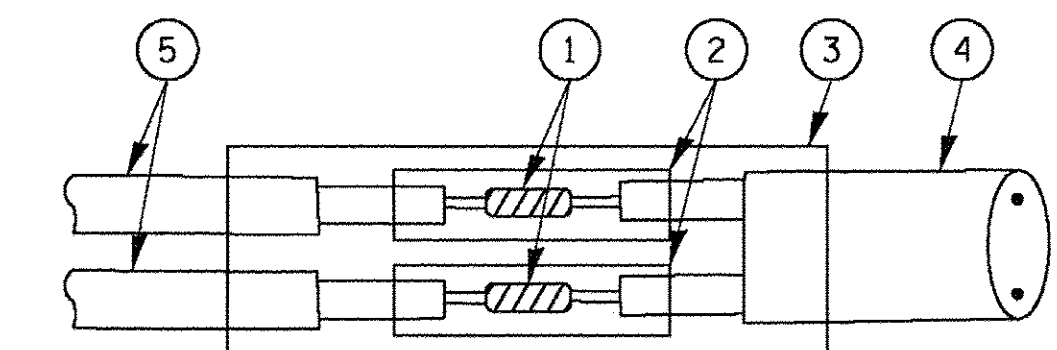


**DETECTOR LOOP WIRING SCHEMATIC**

- 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.

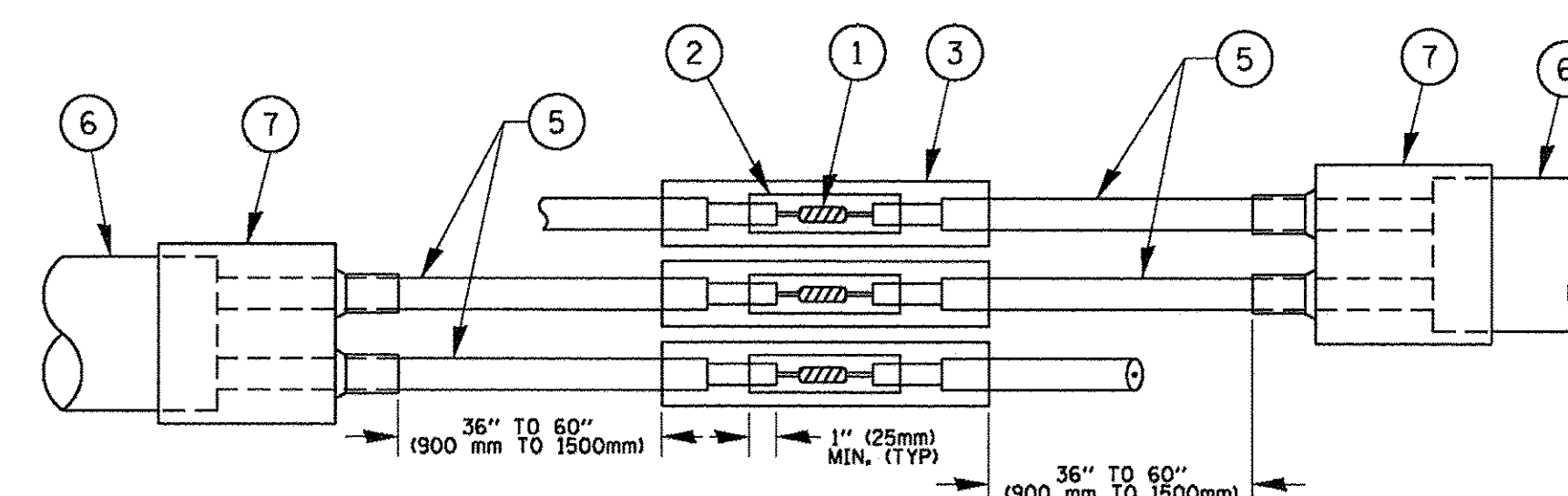


DETAIL "A"  
LOOP-TO-LOOP SPLICE

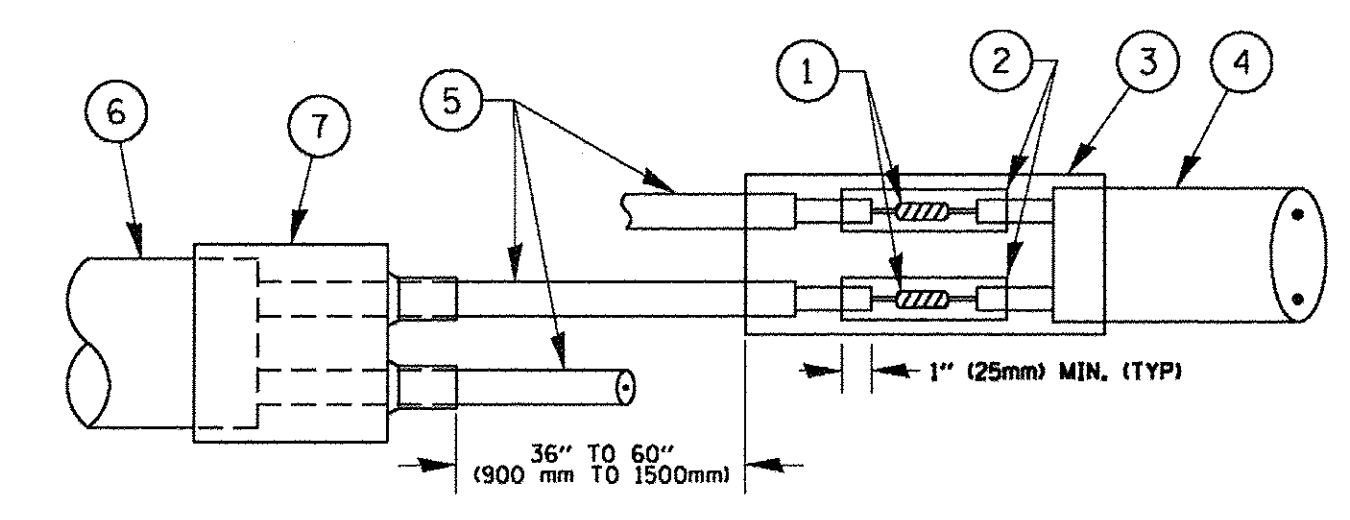


DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

**TYPE I LOOP**



DETAIL "A"  
LOOP-TO-LOOP SPLICE

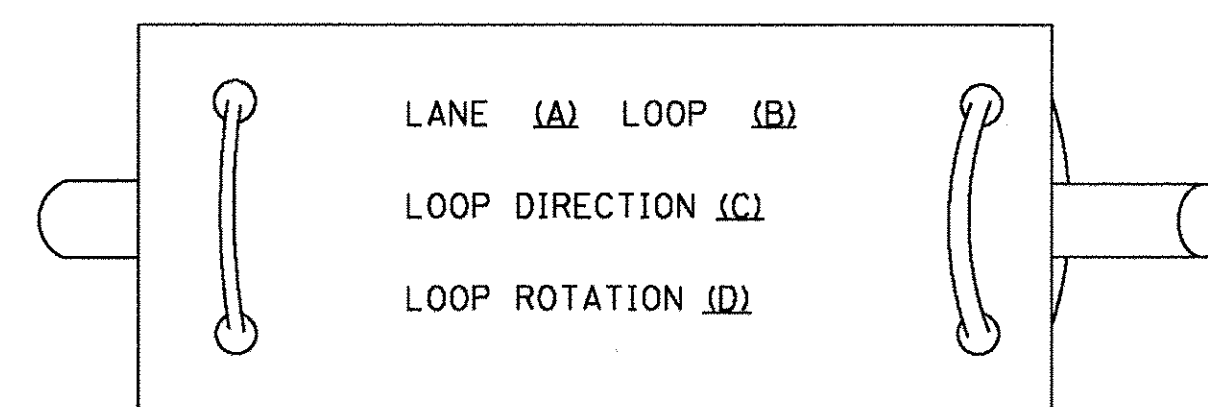


DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

**PRE-FORMED LOOP**

**LOOP DETECTOR SPLICE**

**LOOP LEAD-IN CABLE TAG**



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

- WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- NO. 14 2/C TWISTED, SHIELDED CABLE.

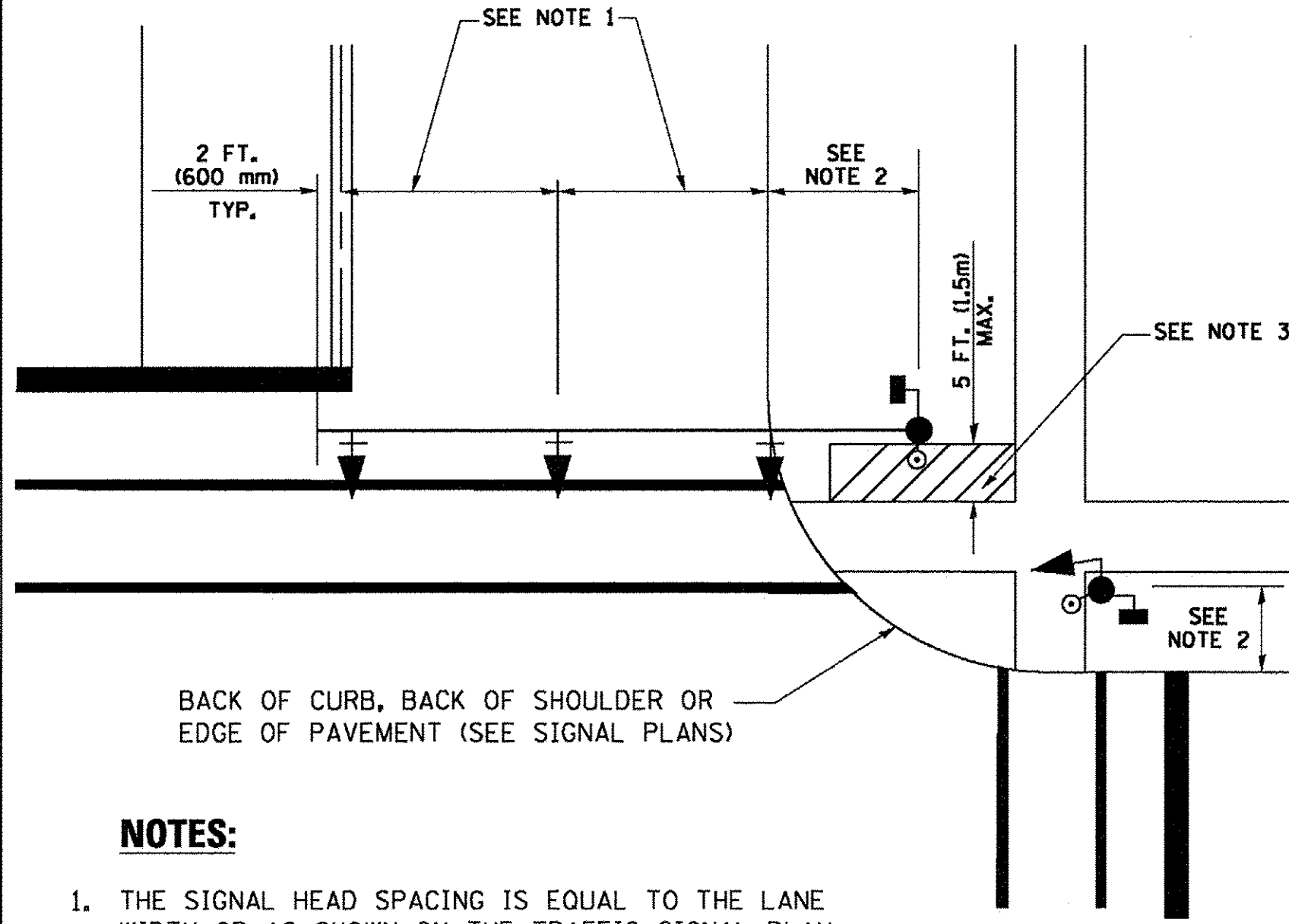
- LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- PREFORMED LOOP
- XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

TS SHEET NO. 2

FILE NAME =	USER NAME = f00temj	DESIGNED - DAD	REVISED - DAG 1-1-14	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b>			F.A.P. RTE. 607	SECTION 15-00040-00-CH	COUNTY WILL	TOTAL SHEETS 138	SHEET NO. 63
CONTRACT NO. 61D82	SCALE: NONE	SHEET NO. 2 OF 7 SHEETS	STA. TO STA.		<b>TS-05</b>		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					
PLLOT SCALE = 50.0000' / 1" =	CHECKED - DAD	REVISED -	REVISED -									
PLLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -	REVISED -									



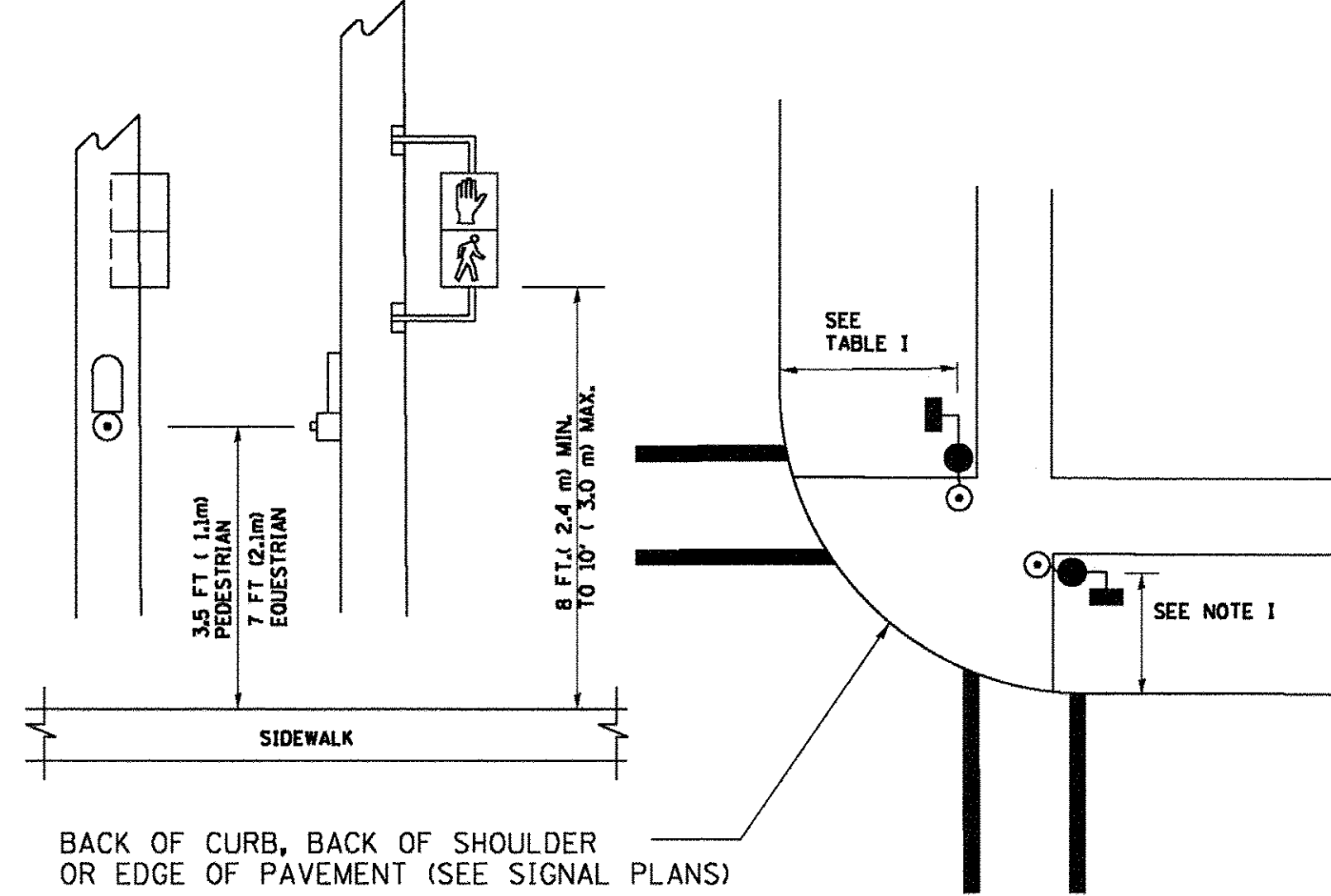
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST  
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR  
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN  
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



**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."

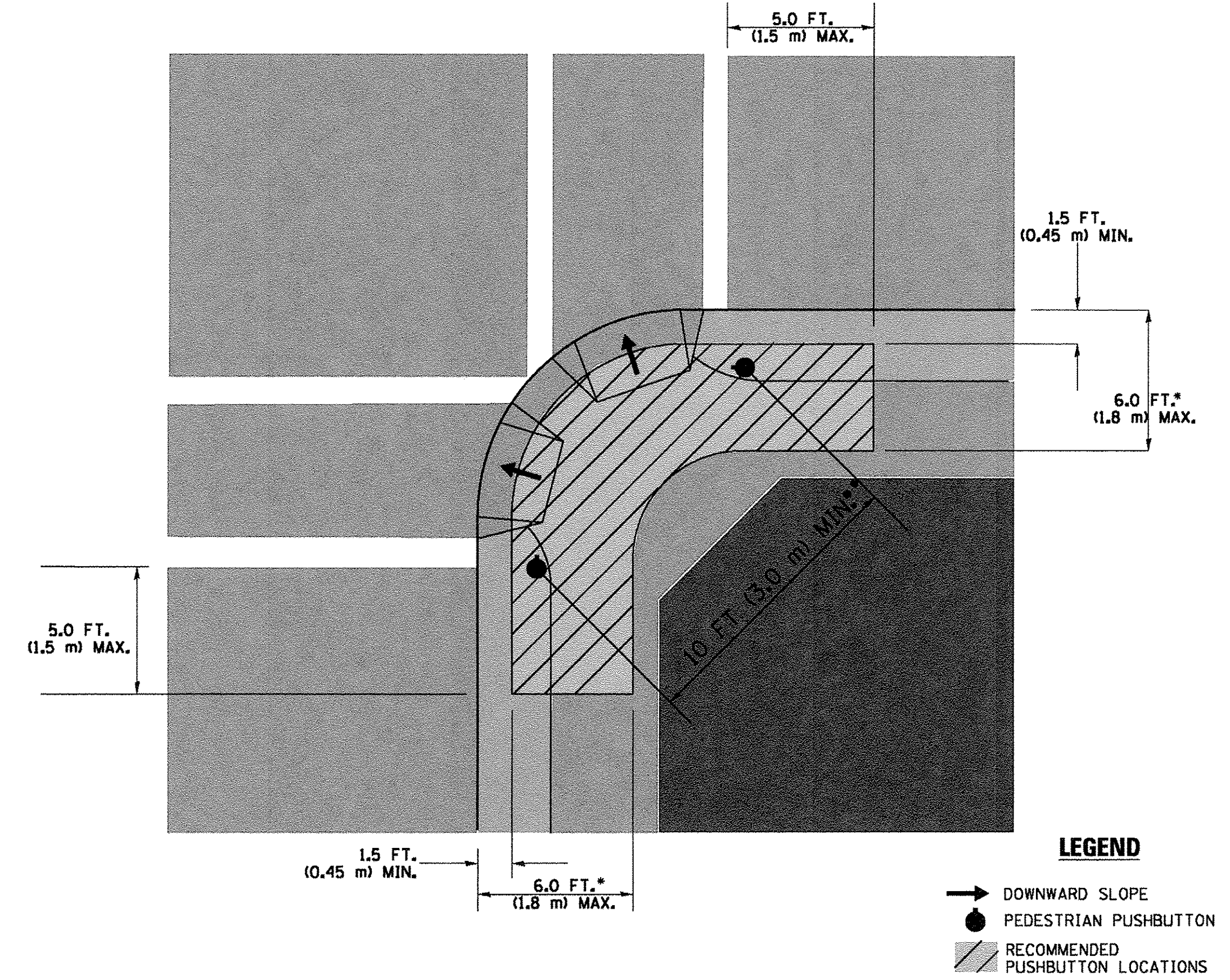
**PEDESTRIAN SIGNAL POST  
AND  
PEDESTRIAN PUSH BUTTON POST**



**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.

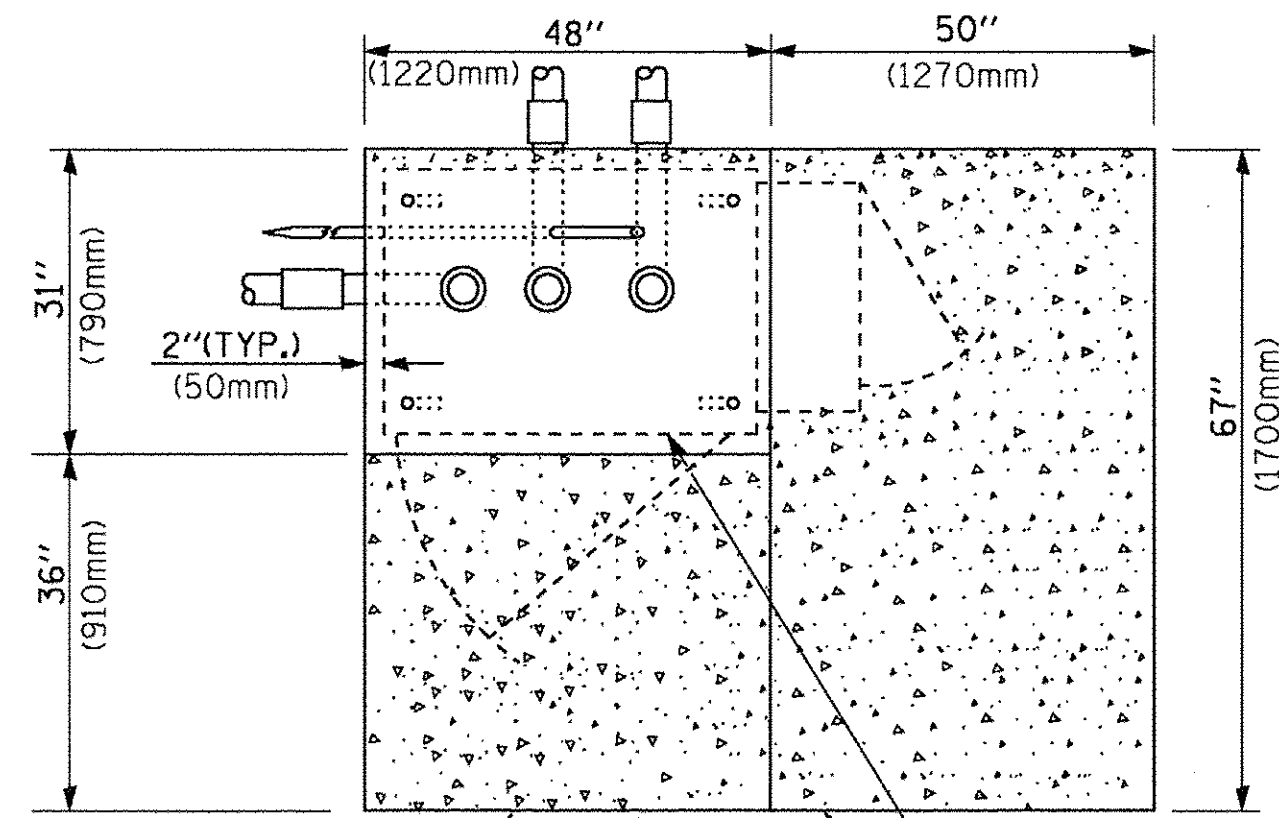
**NOTES:**

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.

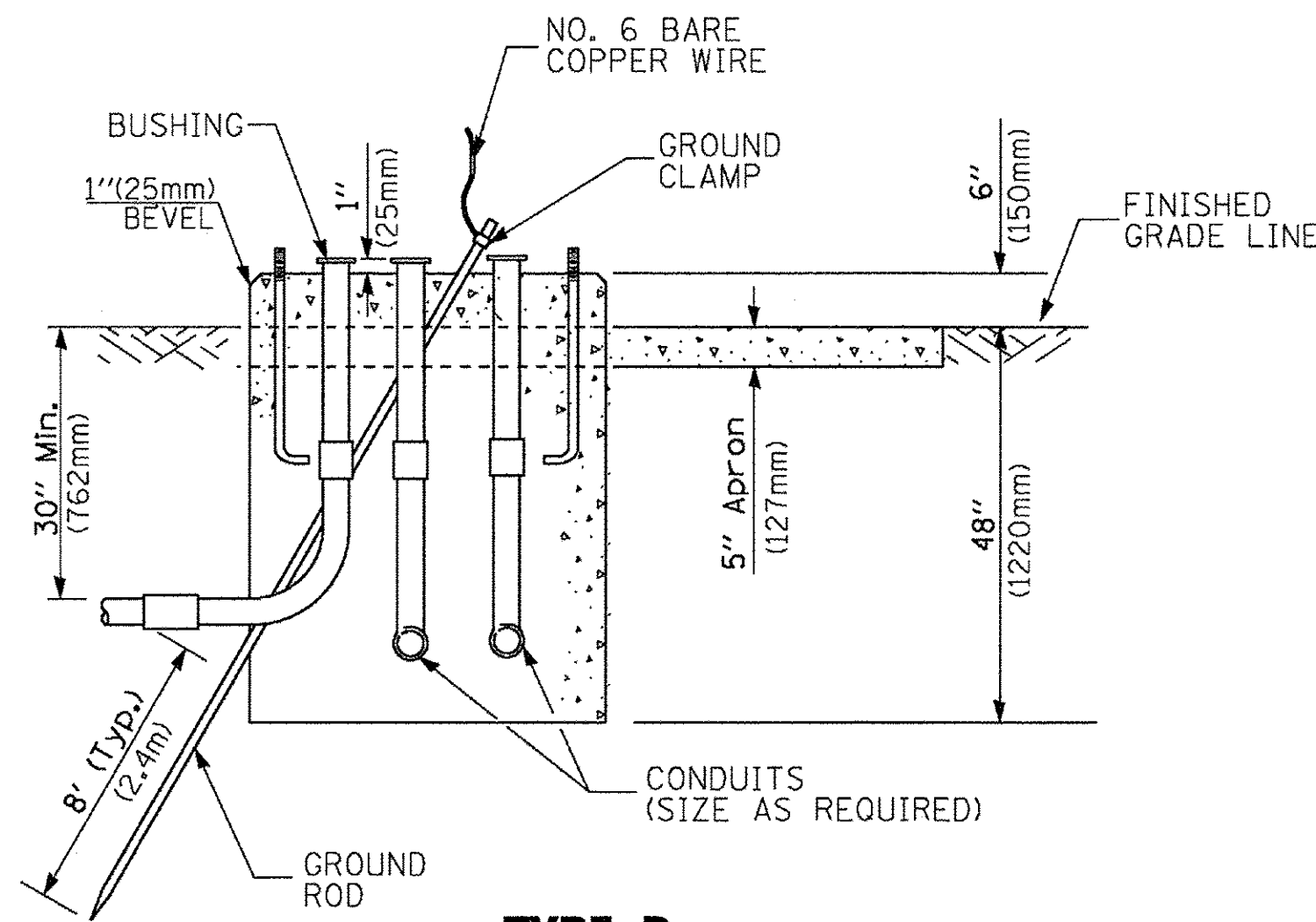
TS SHEET NO. 3



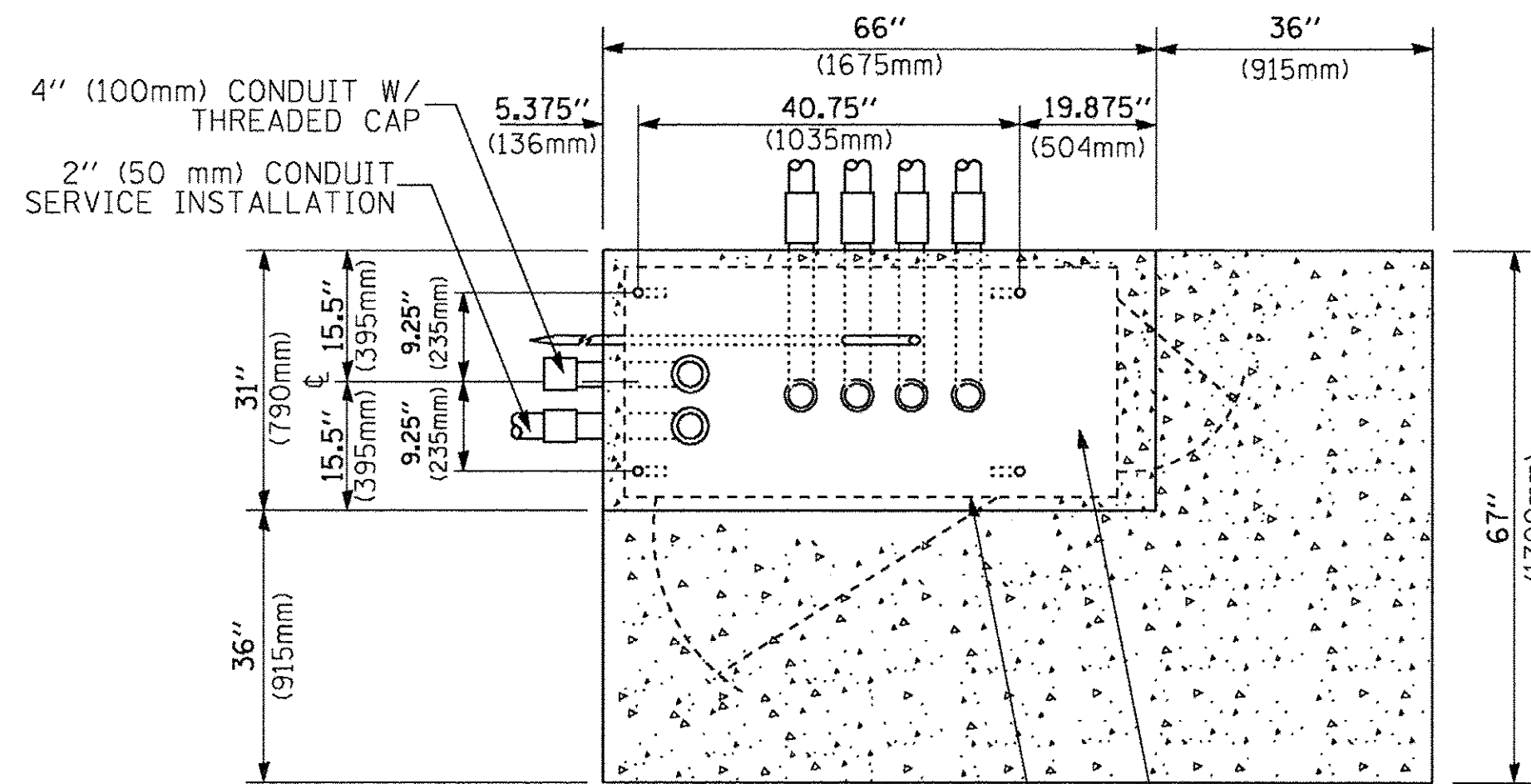




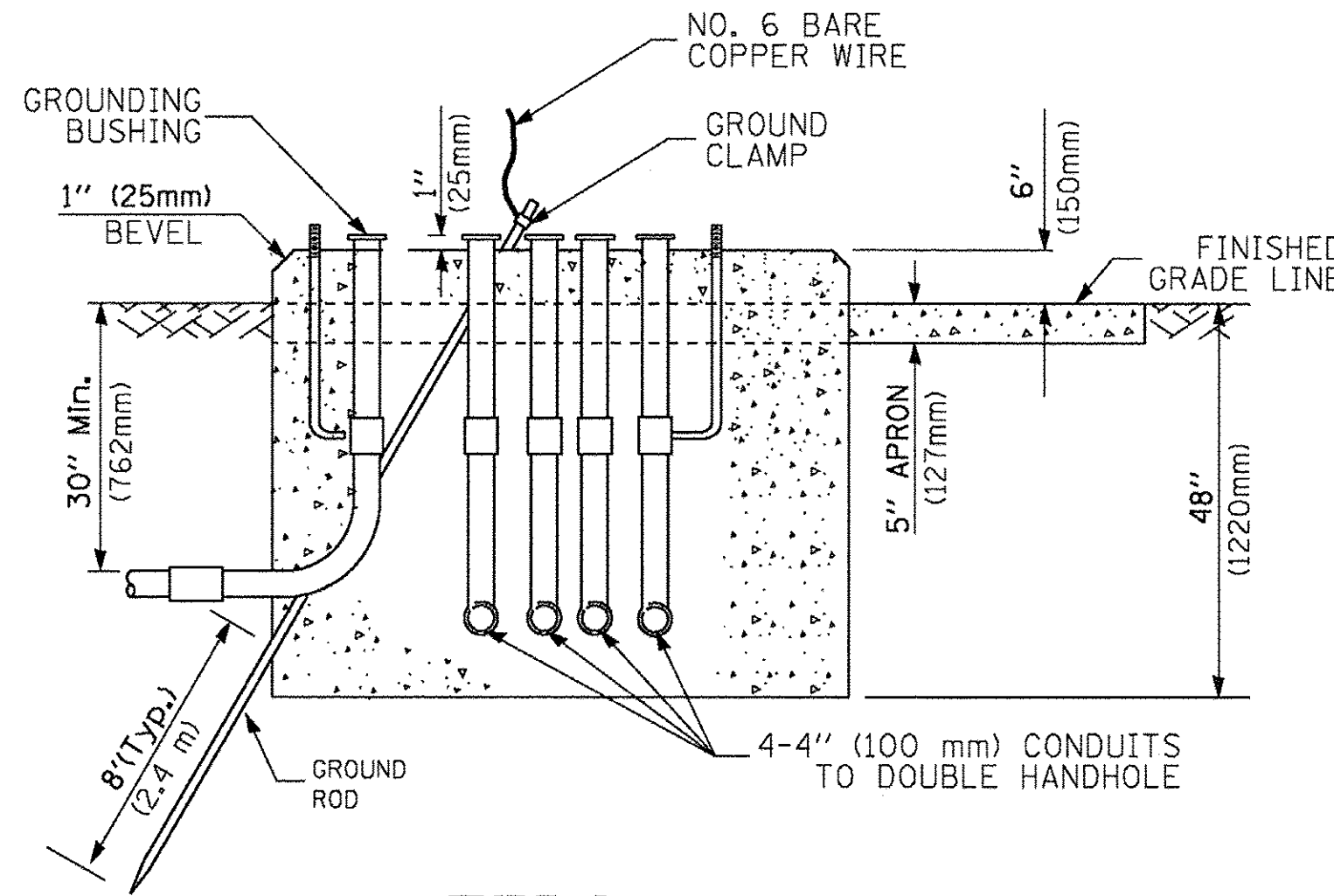
**TOP VIEW**



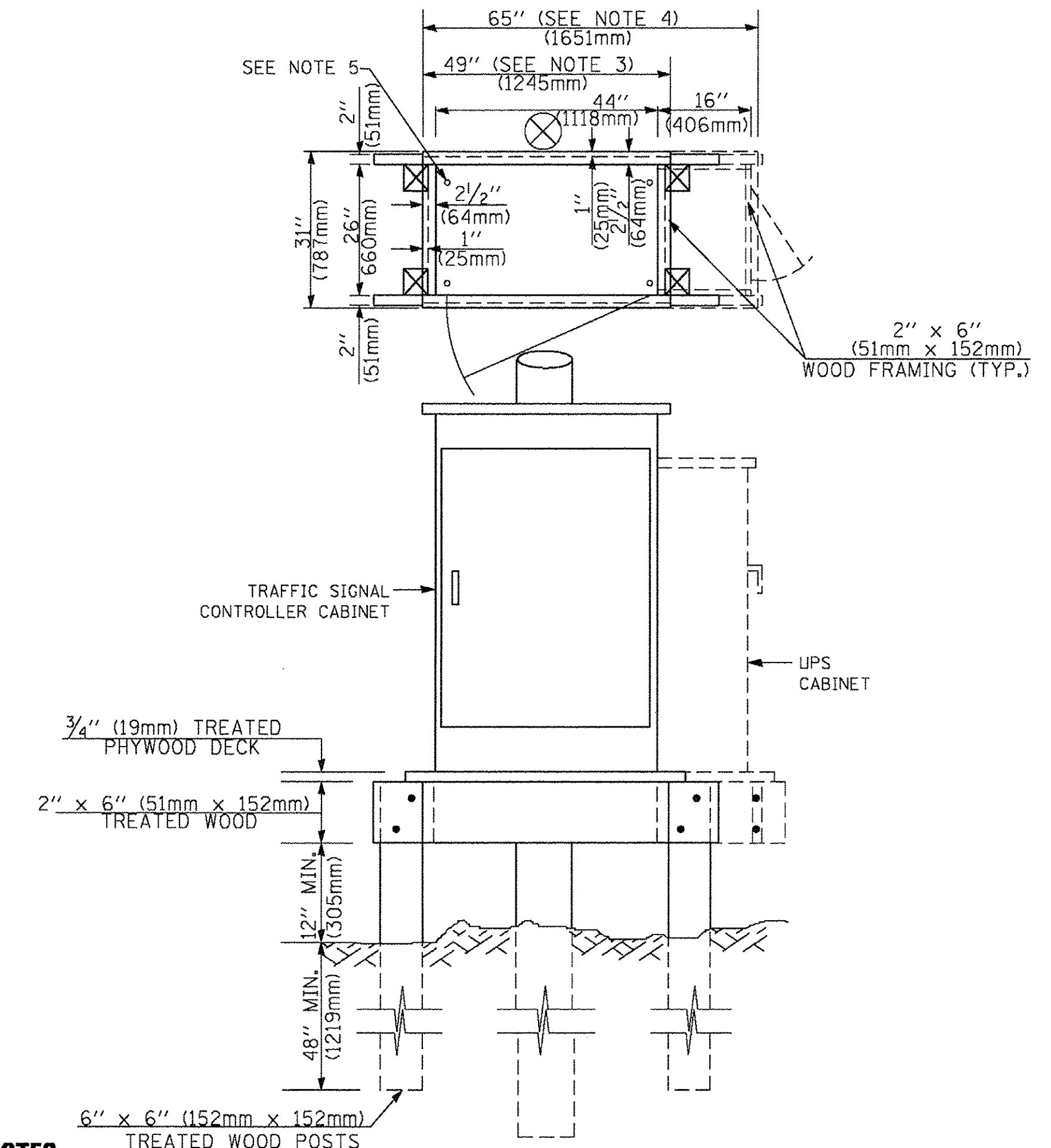
**TYPE D  
FOR GROUND MOUNTED  
CONTROLLER CABINET  
AND UPS BATTERY CABINET**



**TOP VIEW**



**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 up to 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) and up to 85' (25.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

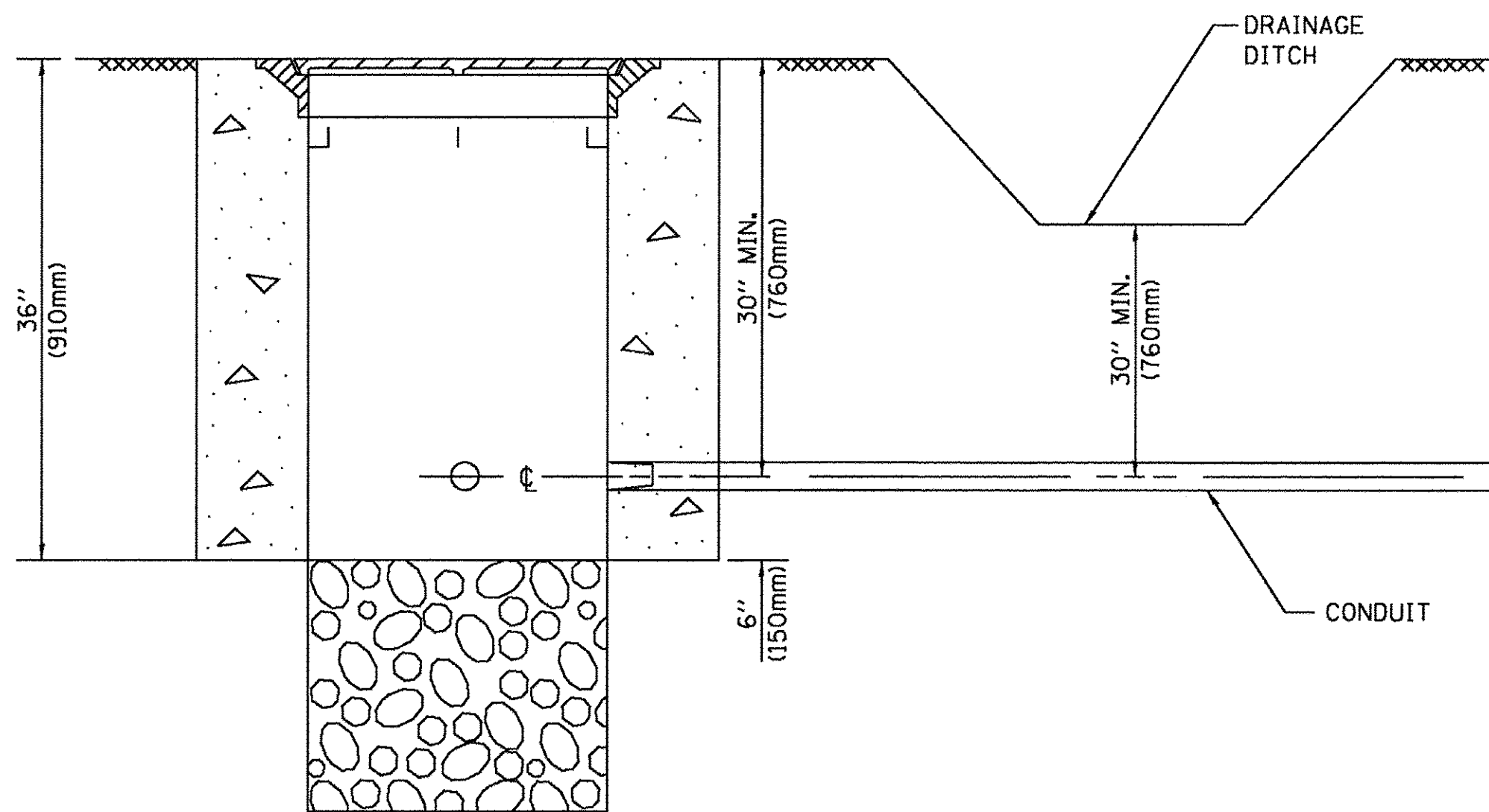
**NOTES:**

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 SHEET NO. 5

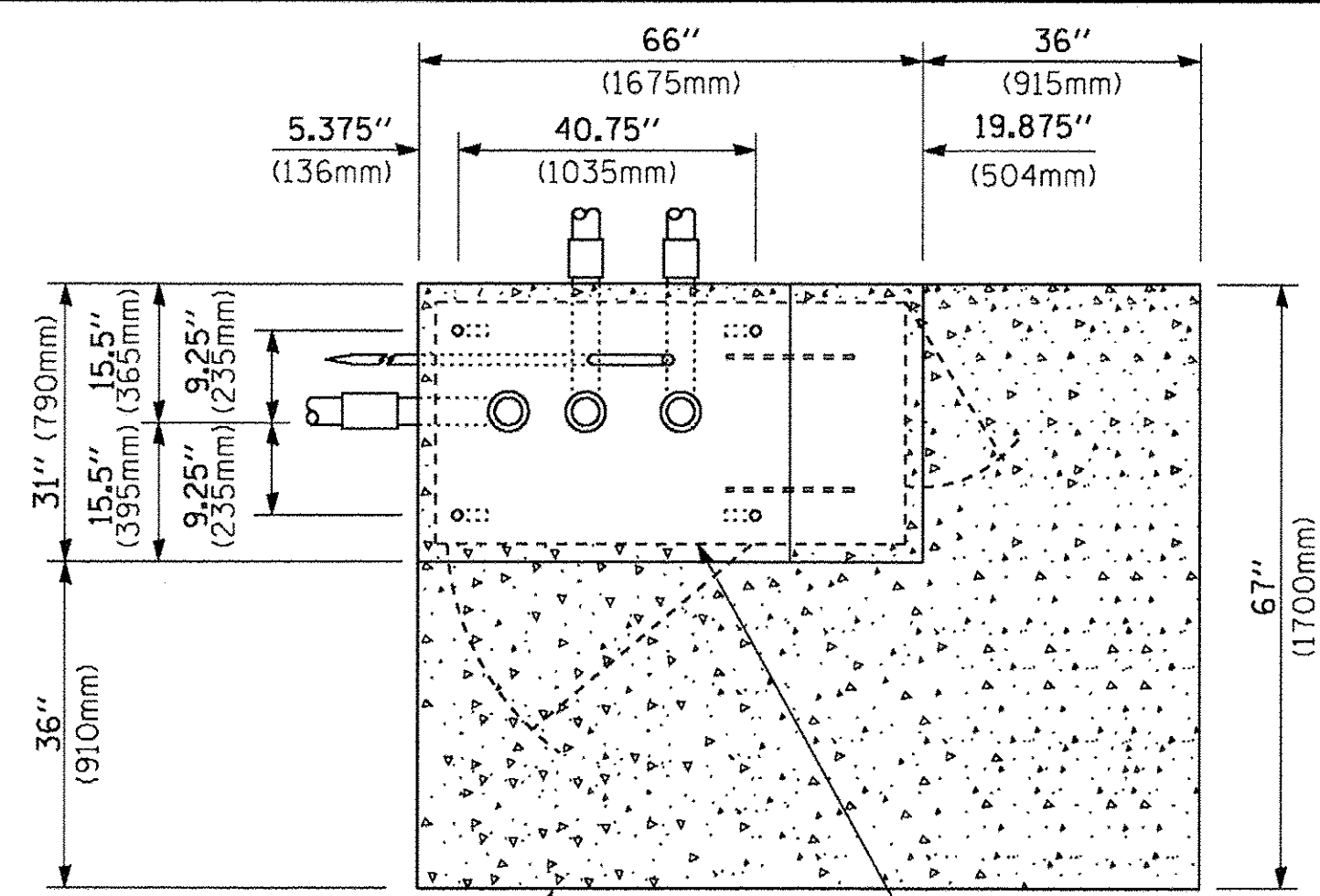




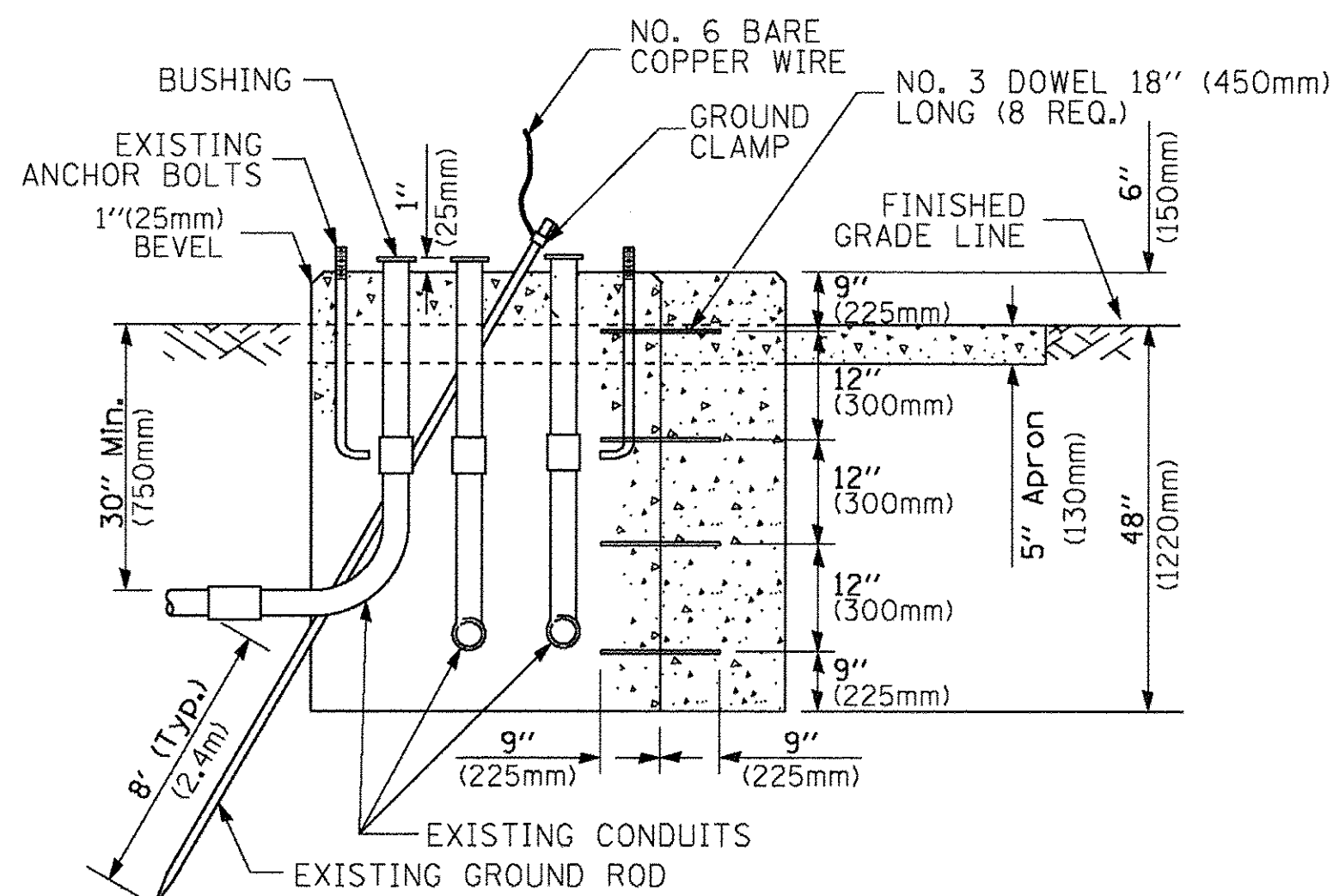
**NOTES:**

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.

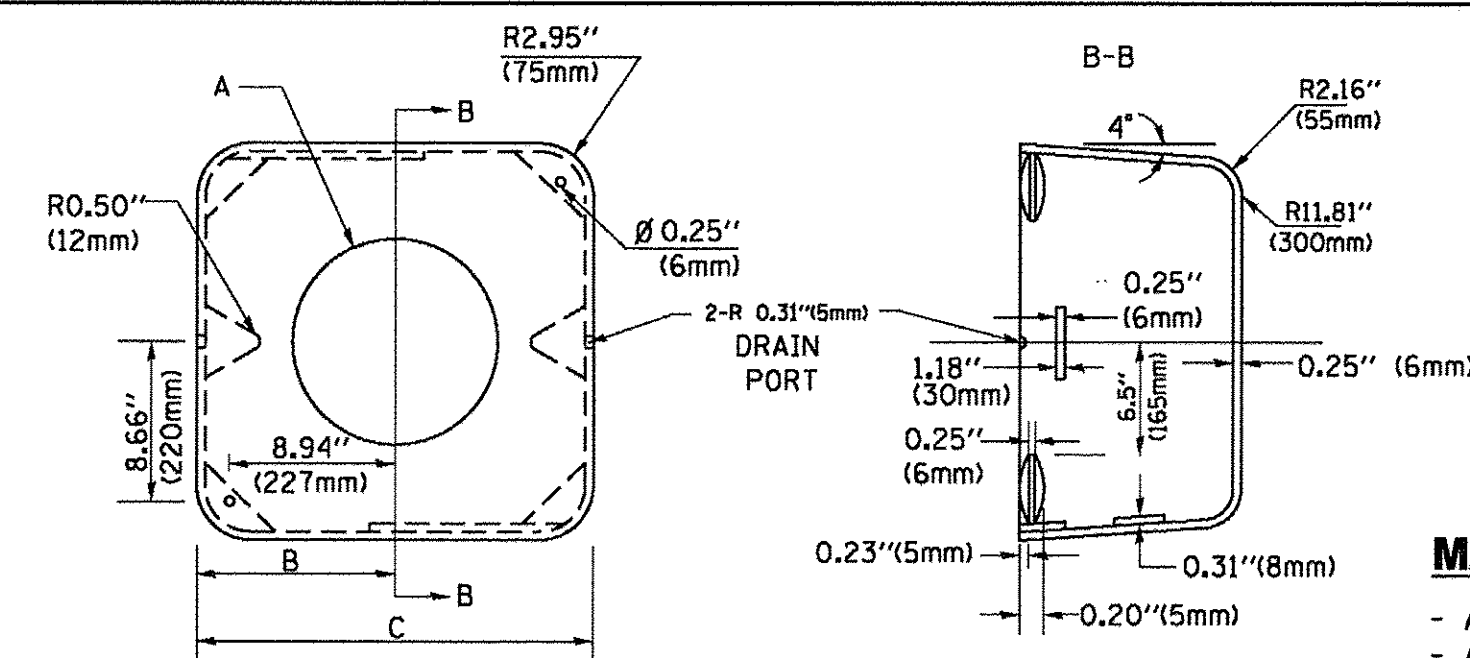
**HANDHOLE WITH MINIMUM CONDUIT DEPTH**  
(NOT TO SCALE)



**TOP VIEW**  
(NOT TO SCALE)



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



**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)

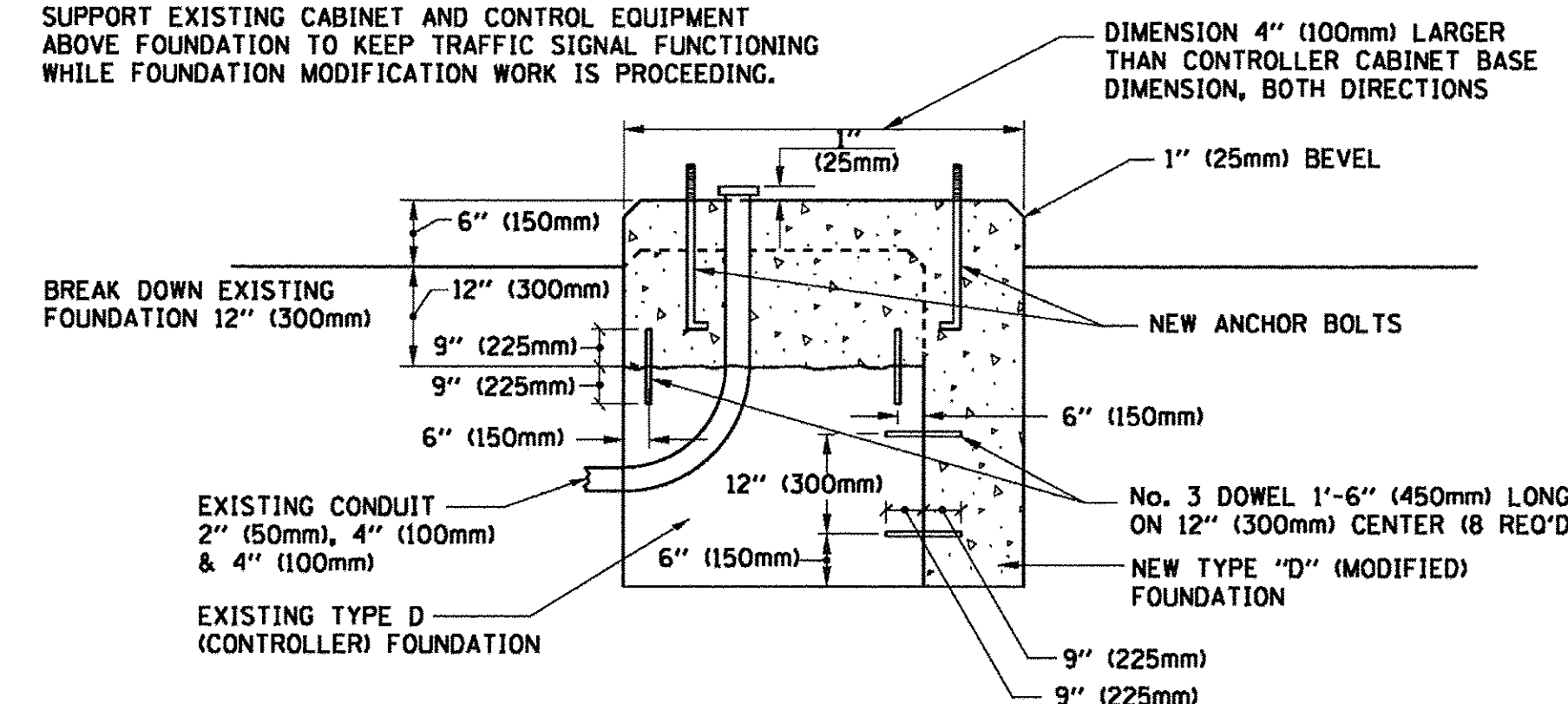
**SHROUD**

**NOTES:**

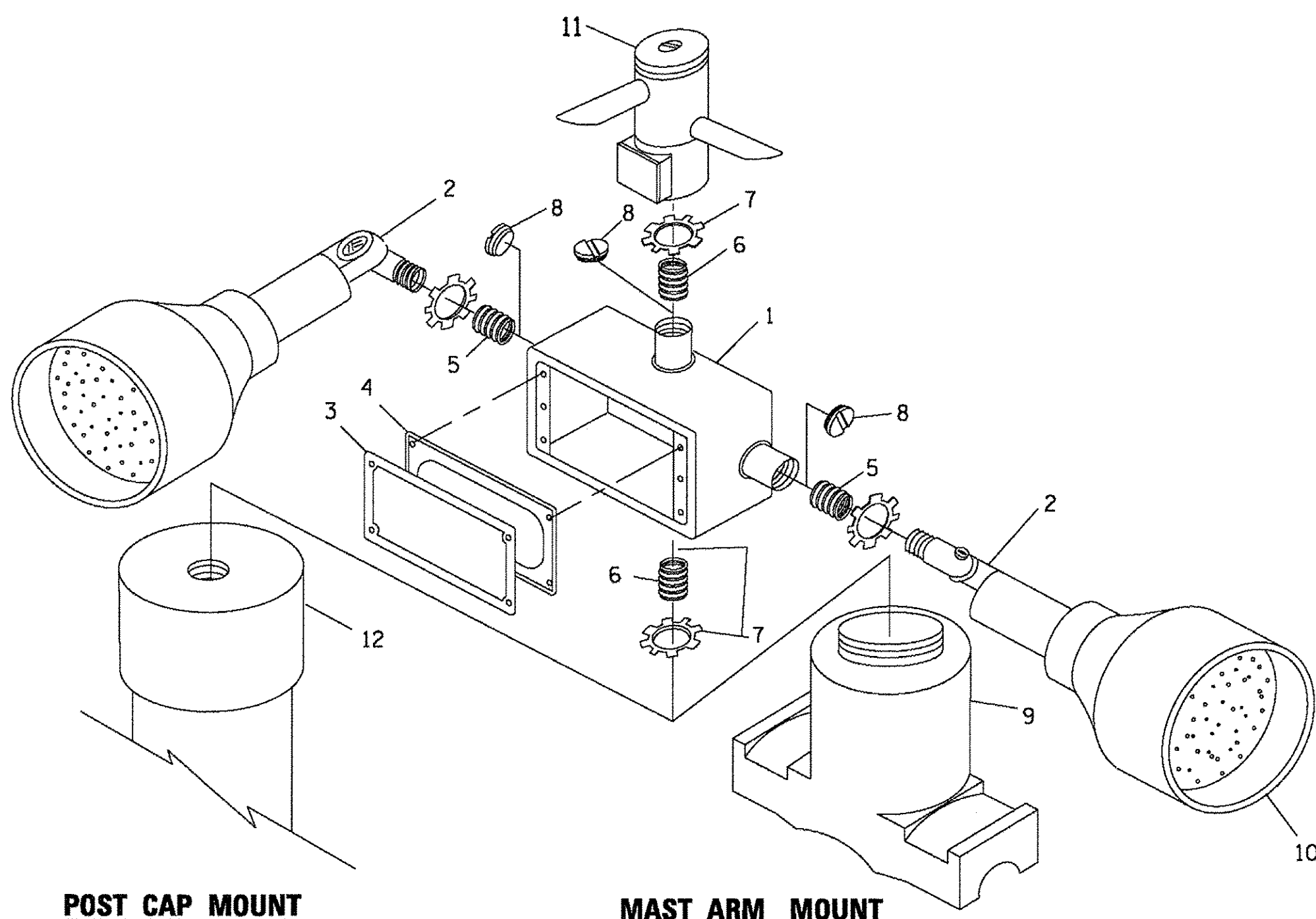
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

**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**

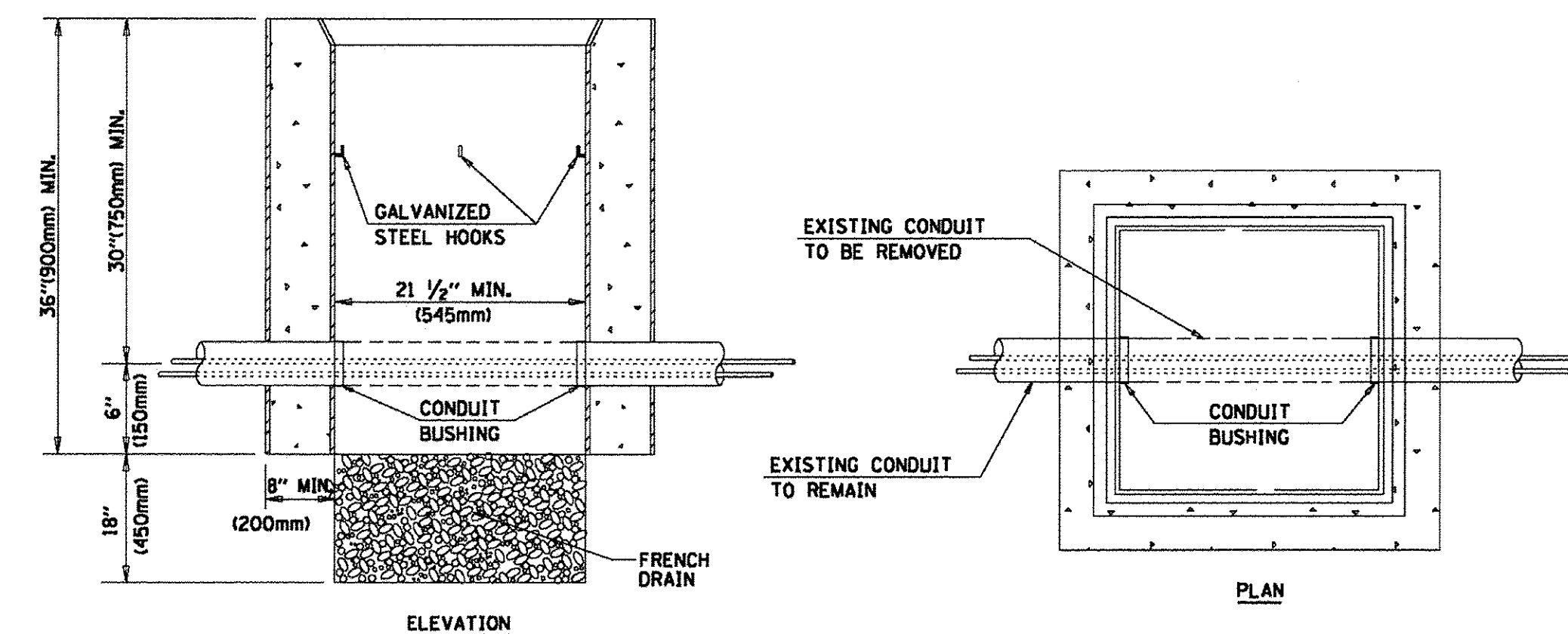
**MAST ARM MOUNT**

**EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL**

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.

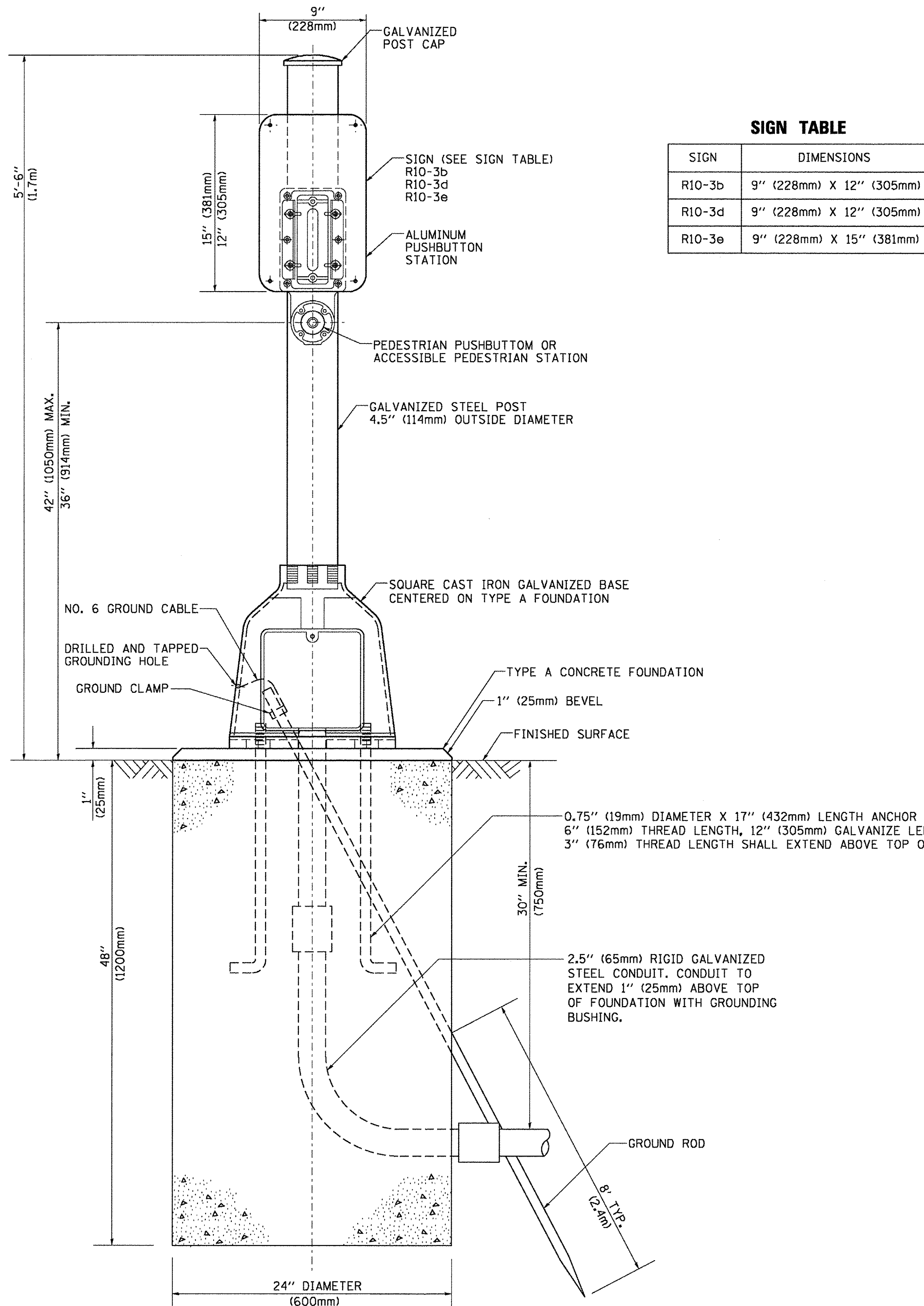


**NOTES:**

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.

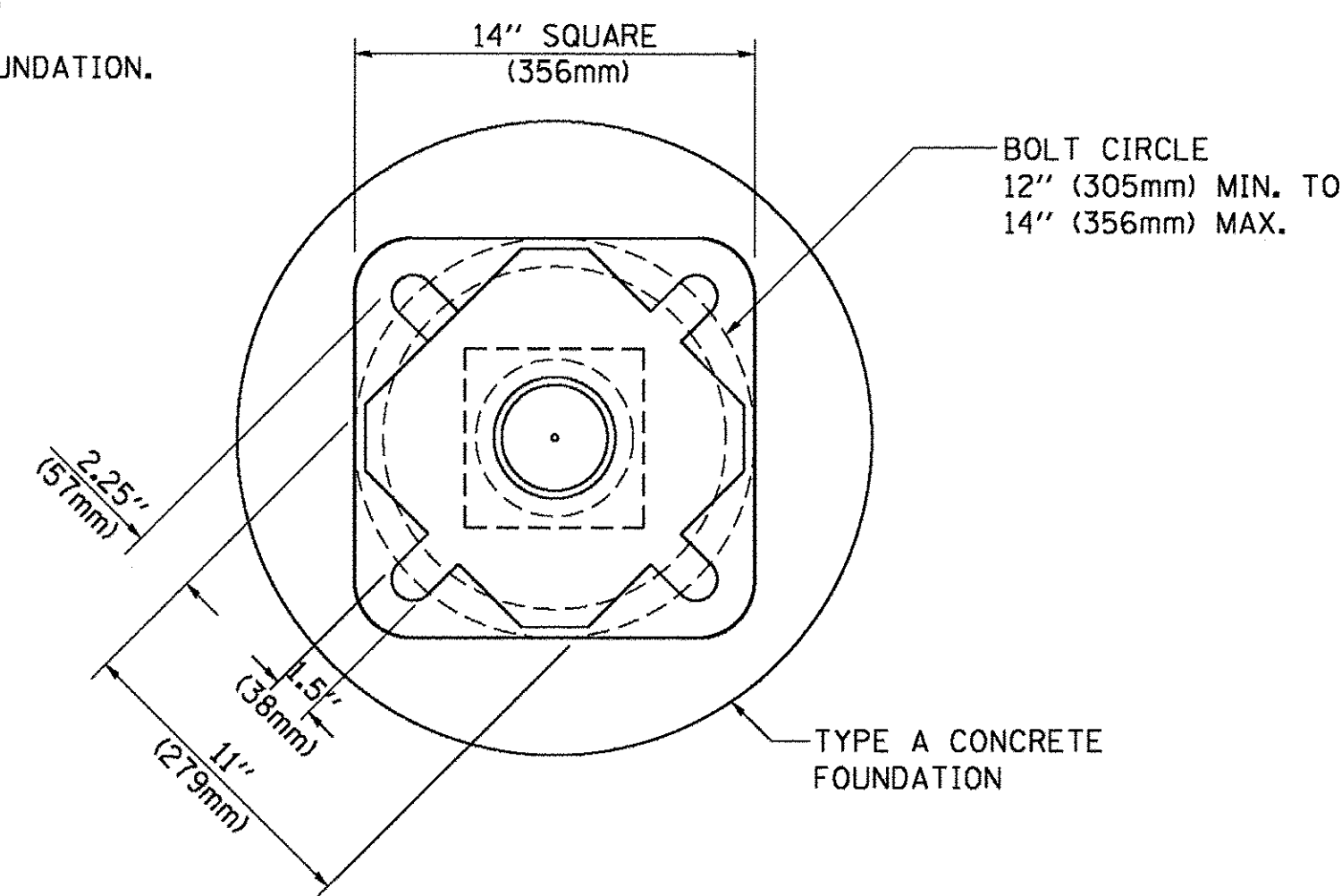
**HANDHOLE TO INTERCEPT EXISTING CONDUIT**

TS SHEET NO. 6



**SIGN TABLE**

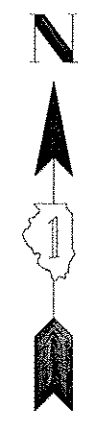
SIGN	DIMENSIONS
R10-3b	9" (228mm) X 12" (305mm)
R10-3d	9" (228mm) X 12" (305mm)
R10-3e	9" (228mm) X 15" (381mm)



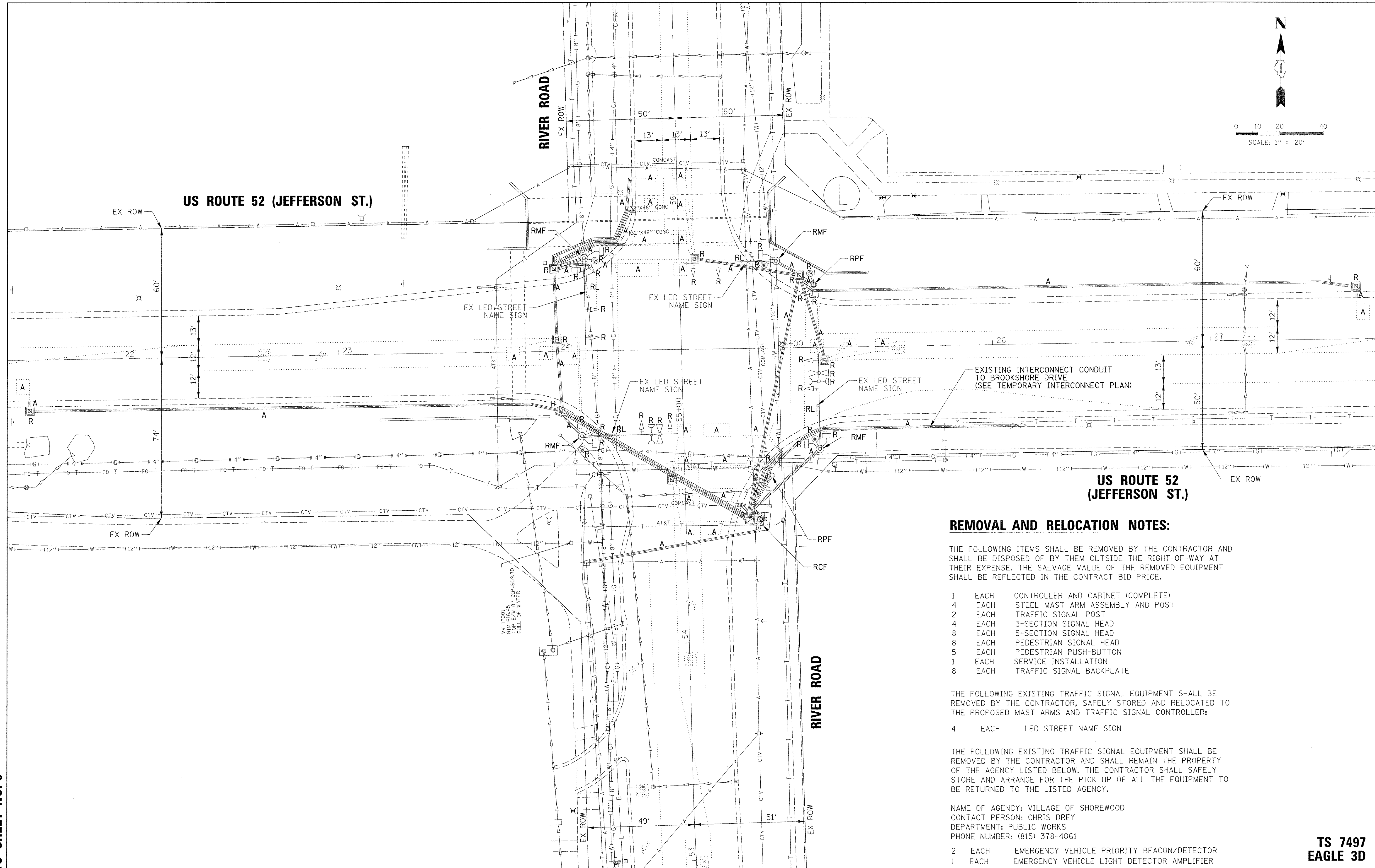
**BOLT PATTERN**  
**PEDESTRIAN PUSH BUTTON POST, TYPE A**

FILE NAME = c:\pwork\pwork\dot\Footemj\d0108315\ts05.dgn	USER NAME = Footemj	DESIGNED - DAG	REVISED - DAG 1-1-14	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b>	F.A.P. RTE. 607	SECTION 15-00040-00-CH	COUNTY WILL	TOTAL SHEETS 138	SHEET NO. 68		
PLOT SCALE = 50.0000' / 1"	CHECKED - DAD	REVISOR -	REVISOR -			<b>TS-05</b>		CONTRACT NO. 61D82				
PLOT DATE = 1/13/2014	DATE - 10/1/2012	REVISOR -	REVISOR -			SCALE: NONE	SHEET NO. 7 OF 7 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		





0 10 20 40  
SCALE: 1" = 20'



**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
- 2 EACH TRAFFIC SIGNAL POST
- 4 EACH 3-SECTION SIGNAL HEAD
- 8 EACH 5-SECTION SIGNAL HEAD
- 8 EACH PEDESTRIAN SIGNAL HEAD
- 5 EACH PEDESTRIAN PUSH-BUTTON
- 1 EACH SERVICE INSTALLATION
- 8 EACH TRAFFIC SIGNAL BACKPLATE

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS AND TRAFFIC SIGNAL CONTROLLER:

- 4 EACH LED STREET NAME SIGN

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.

NAME OF AGENCY: VILLAGE OF SHOREWOOD  
CONTACT PERSON: CHRIS DREY  
DEPARTMENT: PUBLIC WORKS  
PHONE NUMBER: (815) 378-4061

- 2 EACH EMERGENCY VEHICLE PRIORITY BEACON/DETECTOR
- 1 EACH EMERGENCY VEHICLE LIGHT DETECTOR AMPLIFIER

TS SHEET NO. 8

FILE NAME =	USER NAME = jstrick	DESIGNED - TFS	REVISED -
N:\Shorewood\070001\070001C\2016\CI6-02	Traffic\TS8_TS-Removal.dgn	DRAWN - FPB	REVISED -
Default	PLOT SCALE = 20'	CHECKED - GMZ	REVISED -
	PLOT DATE = 3/20/2017	DATE -	REVISED -

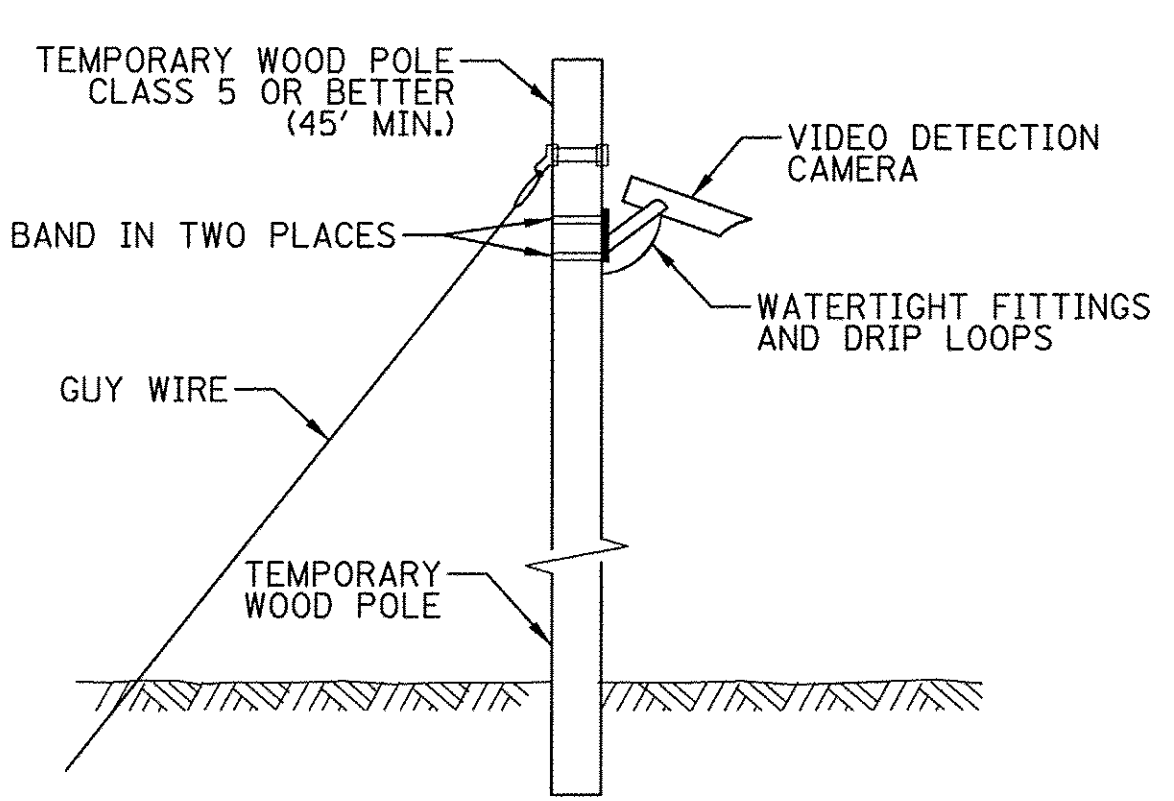
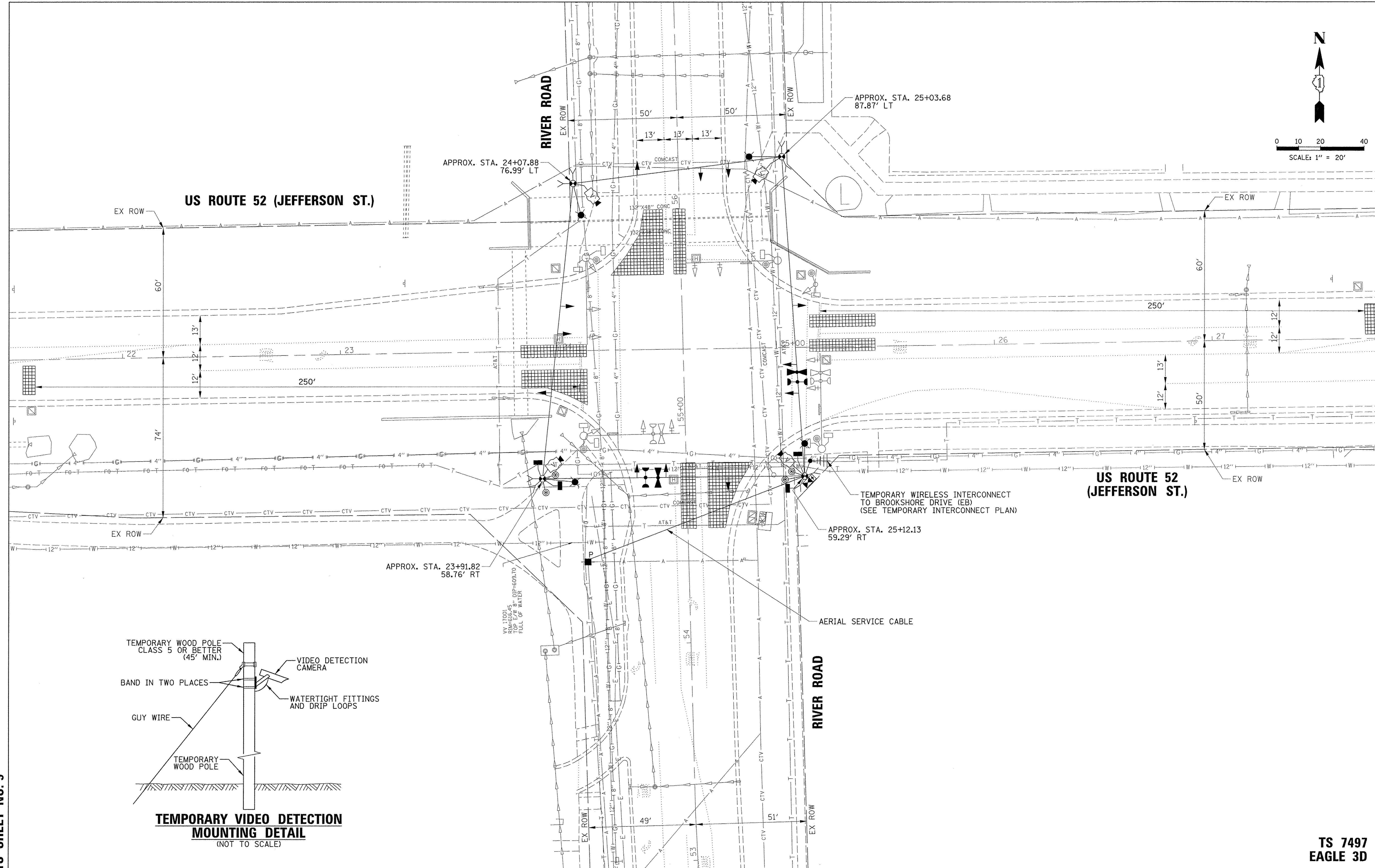
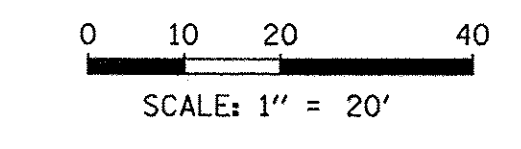
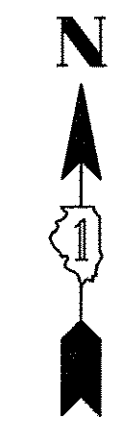
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVAL PLAN  
US ROUTE 52 (JEFFERSON ST.) AND RIVER ROAD

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 607	SECTION 15-00040-00-CH	COUNTY WILL	TOTAL SHEETS 138	SHEET NO. 69
			CONTRACT NO. 61D82	
ILLINOIS FED. AID PROJECT				

TS 7497  
EAGLE 3D



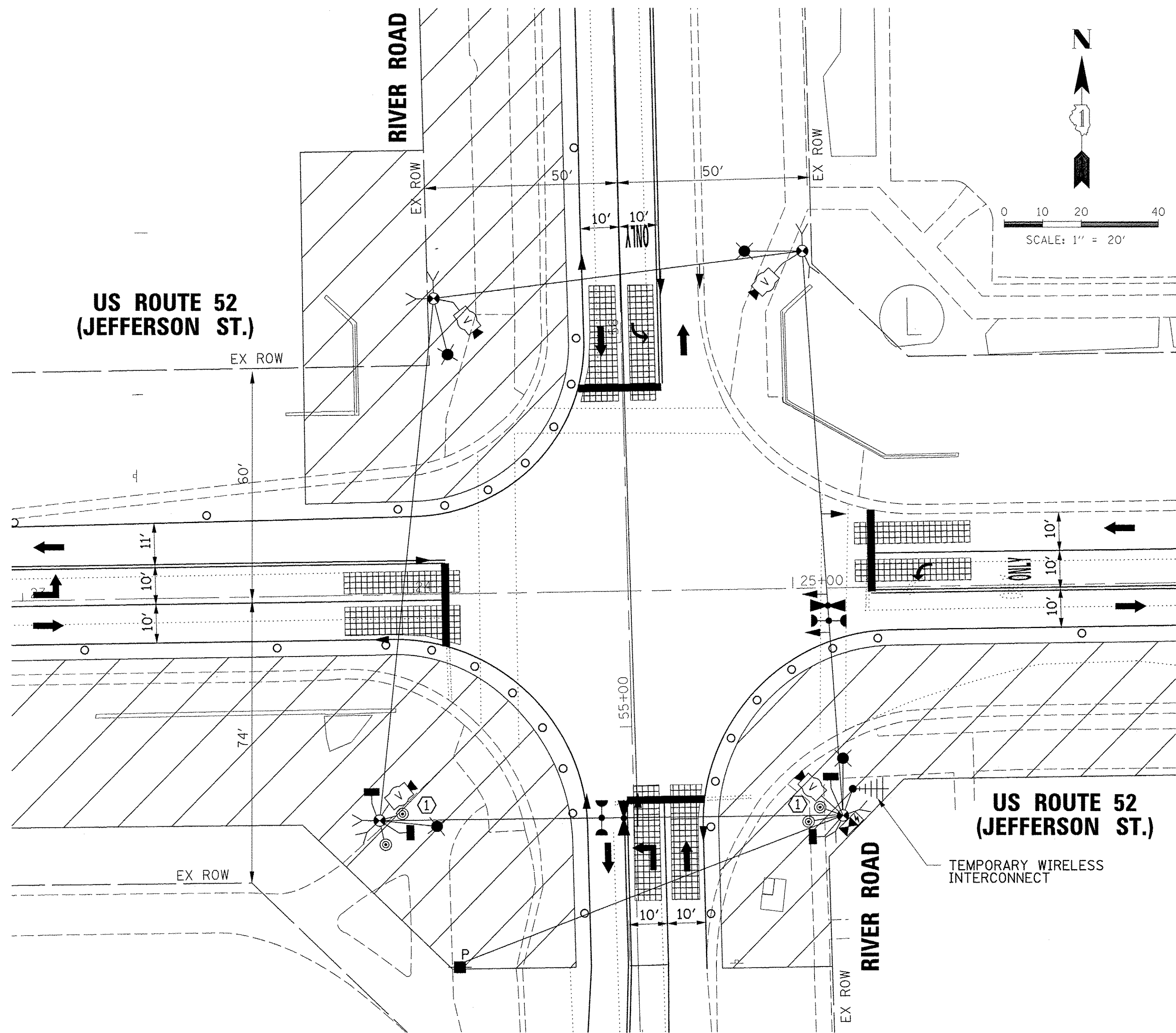
**TEMPORARY VIDEO DETECTION MOUNTING DETAIL**  
(NOT TO SCALE)

TS SHEET NO. 9

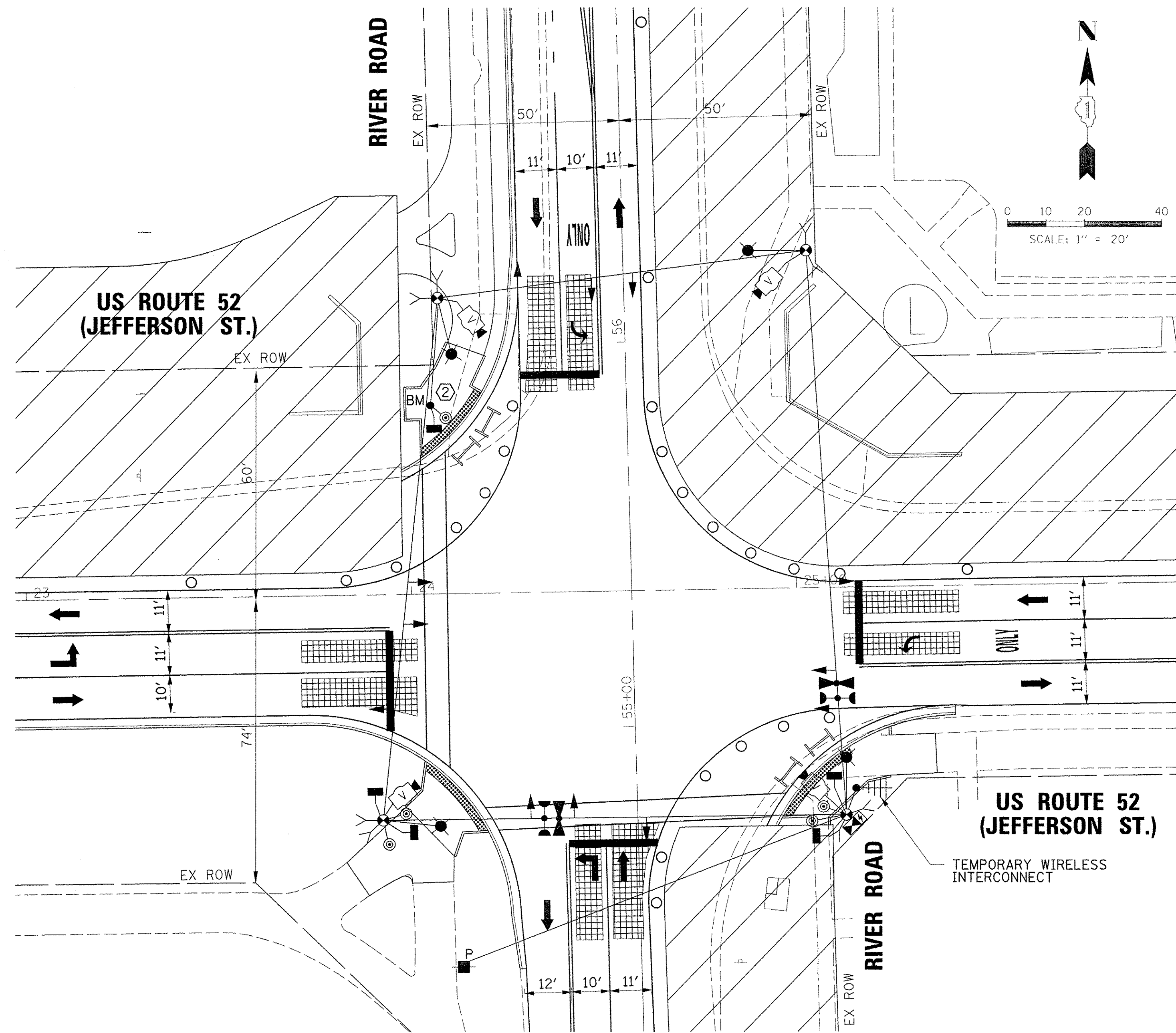
**TS 7497  
EAGLE 3D**

FILE NAME = N:\Shorewood\070001\070001C\2016\C16-02	USER NAME = jstrick Traffic\TS9_TMP_EX_Condition.dgn	DESIGNED - TFS	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TEMPORARY TRAFFIC SIGNAL - STAGING PLAN EXISTING CONDITION US ROUTE 52 (JEFFERSON ST.) AND RIVER ROAD</b>	F.A.P. RTE. 607	SECTION 15-00040-00-CH	COUNTY WILL	TOTAL SHEETS 138	SHEET NO. 70
PLOT SCALE = 20'	CHECKED - GMZ	REVISED -	CONTRACT NO. 61D82			ILLINOIS FED. AID PROJECT				
PLOT DATE = 3/20/2017	DATE -	REVISED -	SCALE:			SHEET	OF SHEETS	STA. TO STA.		
Default										





STAGE 1



STAGE 2

**CONSTRUCTION NOTES:**

- ① PEDESTRIAN SIGNAL HEADS AND PUSH-BUTTONS WILL NOT BE USED DURING STAGE 1 AND SHALL BE COVERED UNTIL STAGE 2.
- ② PEDESTRIAN SIGNAL HEAD AND PUSH-BUTTON SHALL BE INSTALLED ON A BARREL MOUNTED POST IN STAGE 2.

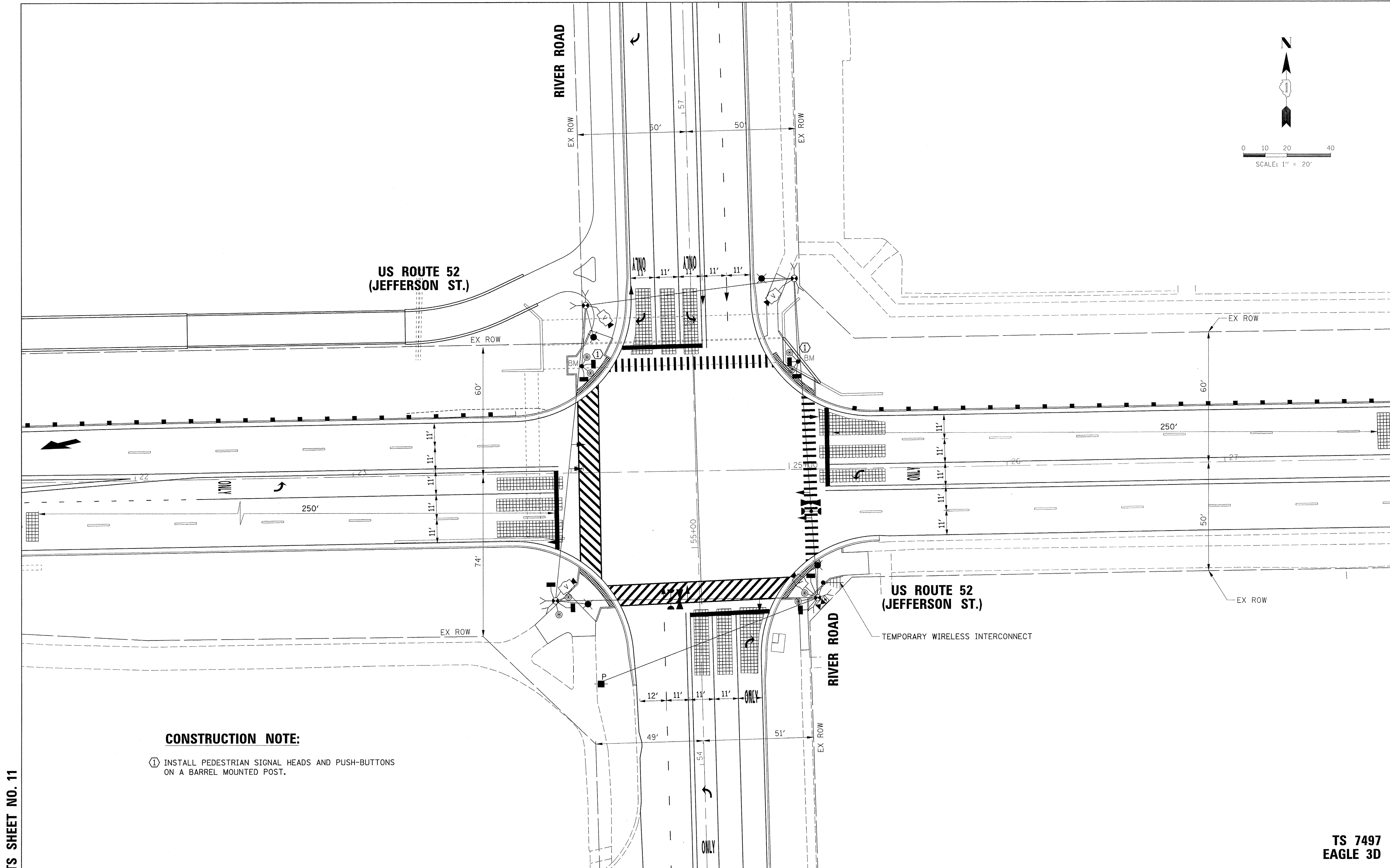
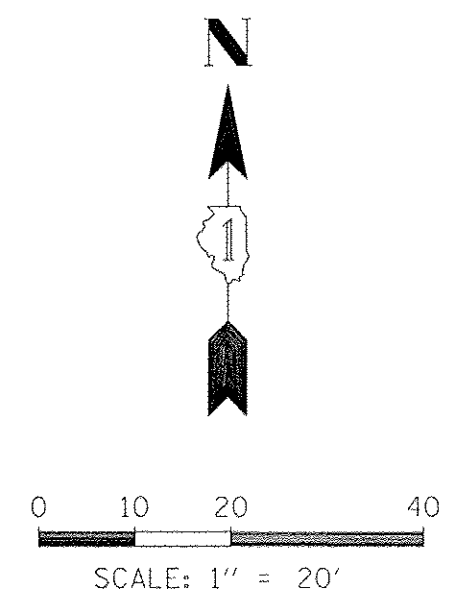
FILE NAME =	USER NAME = jstrick	DESIGNED - TFS	REVISED -
N:\Shorewood\070001\070001C\2016\16-02	Traffic\TS10_TMP_Stage 1 & 2.dgn	DRAWN - FPB	REVISED -
Default	PLOT SCALE = 20"	CHECKED - GMZ	REVISED -
	PLOT DATE = 3/20/2017	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

<b>TEMPORARY TRAFFIC SIGNAL - STAGING PLAN</b>			
<b>STAGE 1 AND 2</b>			
<b>US ROUTE 52 (JEFFERSON ST.) AND RIVER ROAD</b>			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
607	15-00040-00-CH	WILL	138	71
			CONTRACT NO. 61D82	
ILLINOIS FED. AID PROJECT				

TS 7497  
EAGLE 3D



**CONSTRUCTION NOTE:**

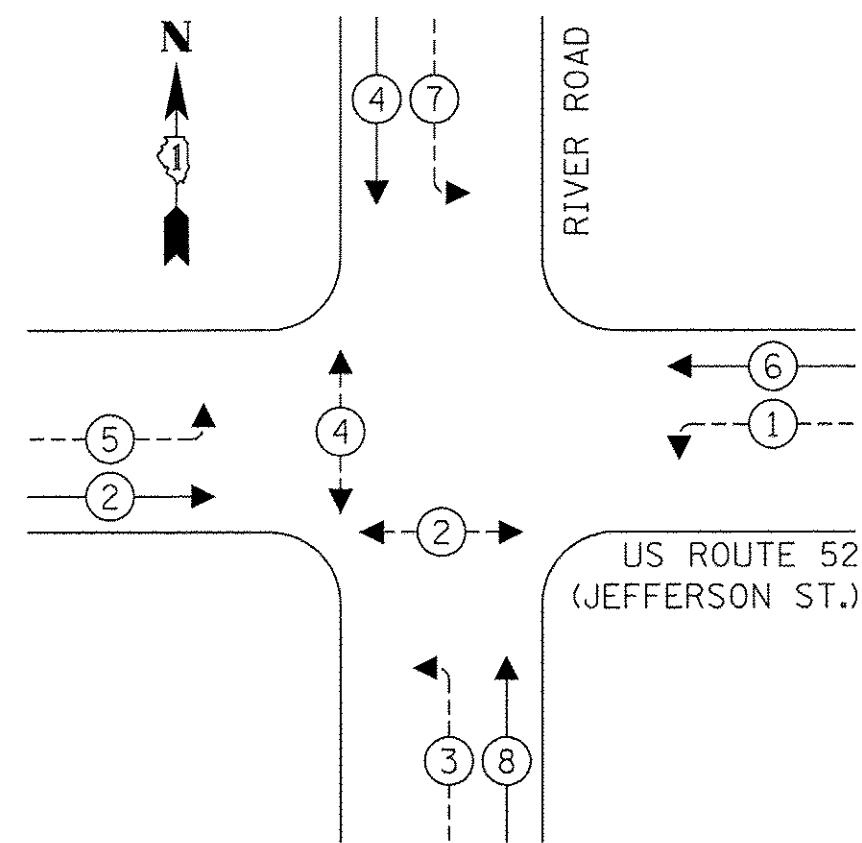
- ① INSTALL PEDESTRIAN SIGNAL HEADS AND PUSH-BUTTONS ON A BARREL MOUNTED POST.

TS SHEET NO. 11

**TS 7497  
EAGLE 3D**

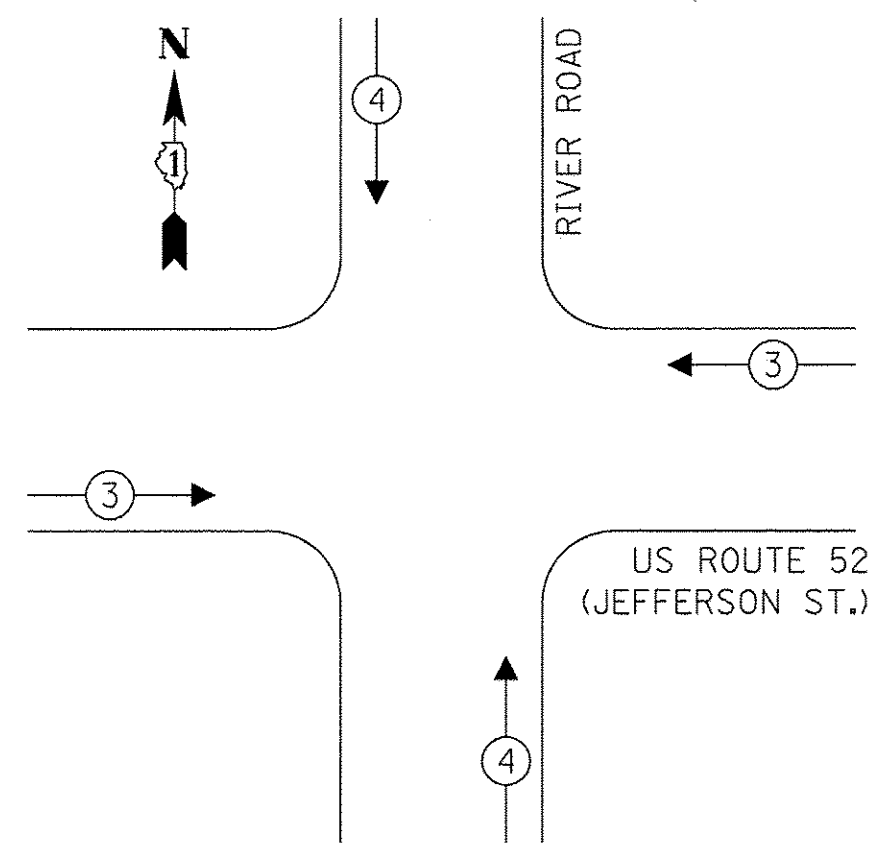
FILE NAME =	USER NAME = jstrick	DESIGNED - TFS	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TEMPORARY TRAFFIC SIGNAL STAGING PLAN FINAL CONDITION US ROUTE 52 (JEFFERSON ST.) AND RIVER ROAD</b>			F.A.P. RTE. 607	SECTION 15-00040-00-CH	COUNTY WILL	TOTAL SHEETS 138	SHEET NO. 72	
N:\Shorewood\070001\070001C\2016\C16-02	Traffic\TS11.TMP_FINAL_Stage.dgn	DRAWN - FPB	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	CONTRACT NO. 61D82	
Default	PLOT SCALE = 20'	CHECKED - GMZ	REVISED -		ILLINOIS FED. AID PROJECT								
	PLOT DATE = 3/20/2017	DATE -	REVISED -										

**TEMPORARY CONTROLLER SEQUENCE**



- LEGEND:**
- ←(\*) PROTECTED PHASE
  - ←(\*)- PROTECTED/PERMITTED PHASE
  - ←(\*)→ PEDESTRIAN PHASE
  - ←OL OVERLAP

**TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE**

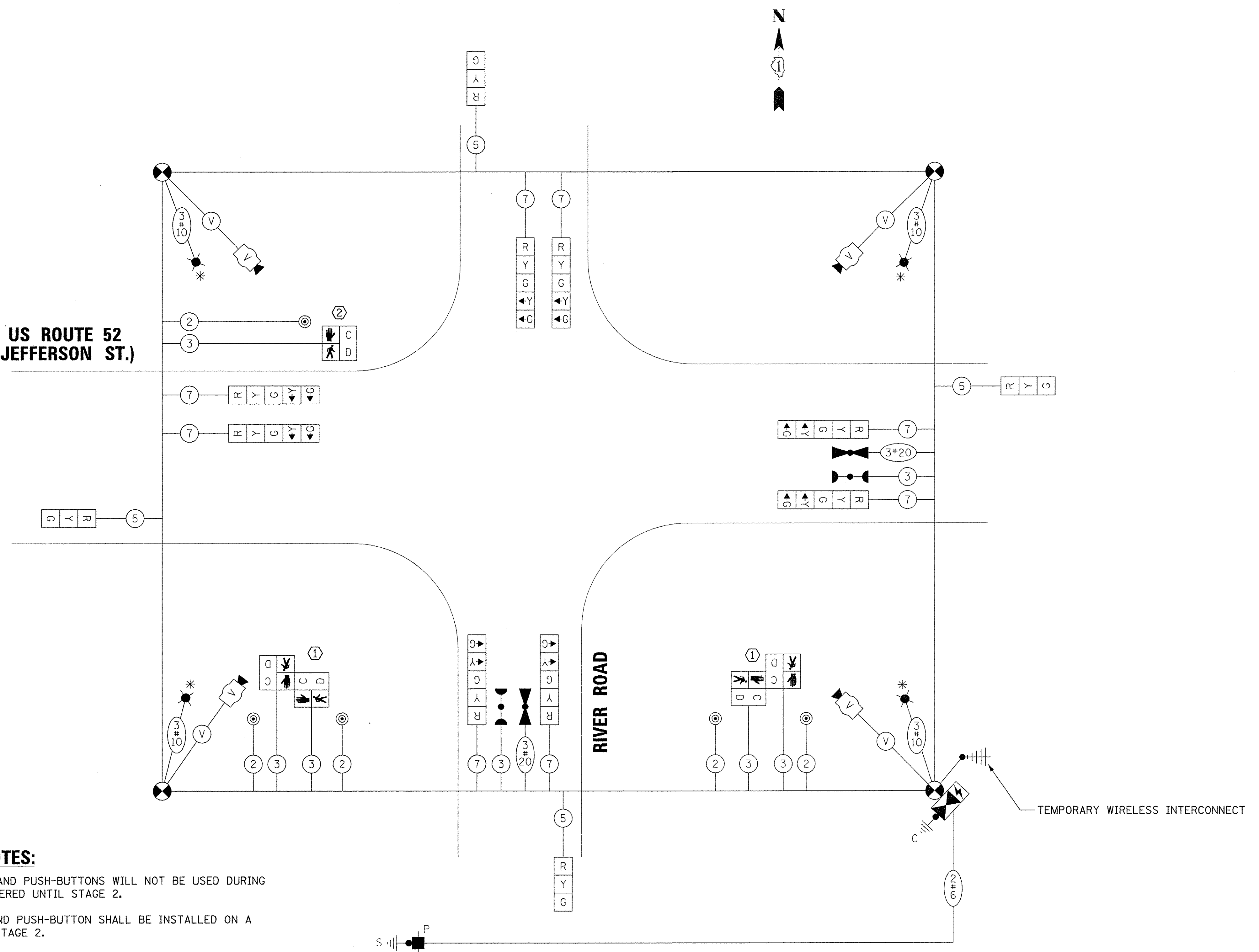


**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	5	12.0
(GREEN)	12	12	45	64.8
PERMISSIVE ARROW	16	10	10	16.0
PED. SIGNAL	4	20	100	80.0
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	4	400.0	50	800.0
TOTAL =				1297.8

ENERGY COSTS TO:  
 VILLAGE OF SHOREWOOD  
 One Towne Center Blvd.  
 Shorewood, IL 60404  
 ENERGY SUPPLY: CONTACT: NEW BUSINESS  
 PHONE: (866) 639-3532  
 COMPANY: COMMONWEALTH EDISON  
 ACCOUNT NUMBER: ---

**US ROUTE 52 (JEFFERSON ST.)**



- CONSTRUCTION NOTES:**
- ① PEDESTRIAN SIGNAL HEADS AND PUSH-BUTTONS WILL NOT BE USED DURING STAGE 1 AND SHALL BE COVERED UNTIL STAGE 2.
  - ② PEDESTRIAN SIGNAL HEAD AND PUSH-BUTTON SHALL BE INSTALLED ON A BARREL MOUNTED POST IN STAGE 2.

**EXISTING CONDITION, STAGE 1, AND STAGE 2  
 TEMPORARY CABLE PLAN**  
 (NOT TO SCALE)

\* SEE SHEET 84 FOR TEMPORARY LIGHTING DETAILS

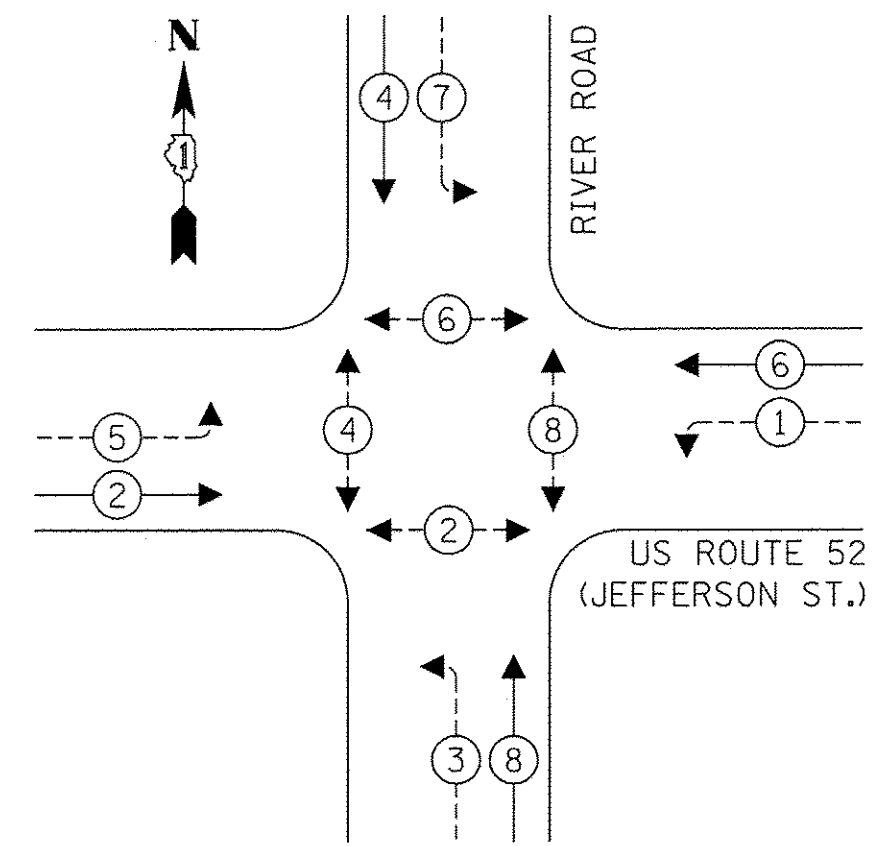
TS SHEET NO. 12

**TS 7497  
 EAGLE 3D**

FILE NAME =	USER NAME = jstrick	DESIGNED - TFS	REVISED -	<b>STATE OF ILLINOIS          DEPARTMENT OF TRANSPORTATION</b>	<b>TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM,          AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE          US ROUTE 52 (JEFFERSON ST.) AND RIVER ROAD</b>	F.A.P. RTE. 607	SECTION 15-00040-00-CH	COUNTY WILL	TOTAL SHEETS 138	SHEET NO. 73
N:\Shorewood\070001\070001C\2016\16-02	Traffic\TS12.TCB-US52-River-Stage1 & 2.dgn	DRAWN - FPB	REVISED -			CONTRACT NO. 61D82				
Default	PLOT SCALE = 20'	CHECKED - GMZ	REVISED -			ILLINOIS FED. AID PROJECT				
	PLOT DATE = 3/20/2017	DATE -	REVISED -							



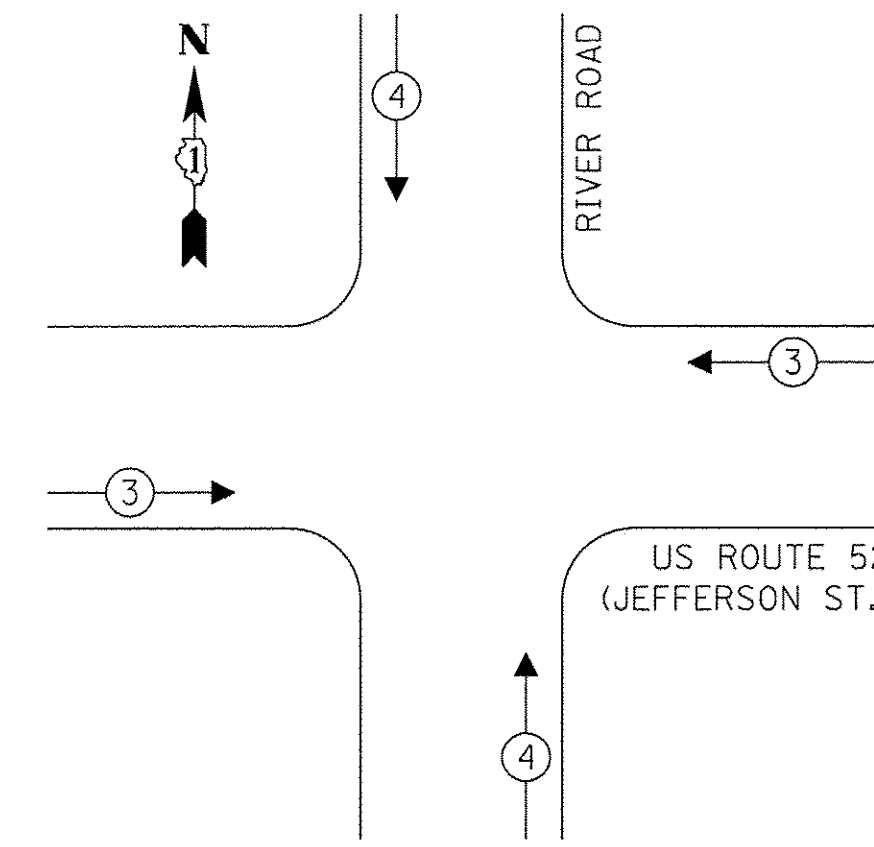
**TEMPORARY CONTROLLER SEQUENCE**



**LEGEND:**

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

**TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

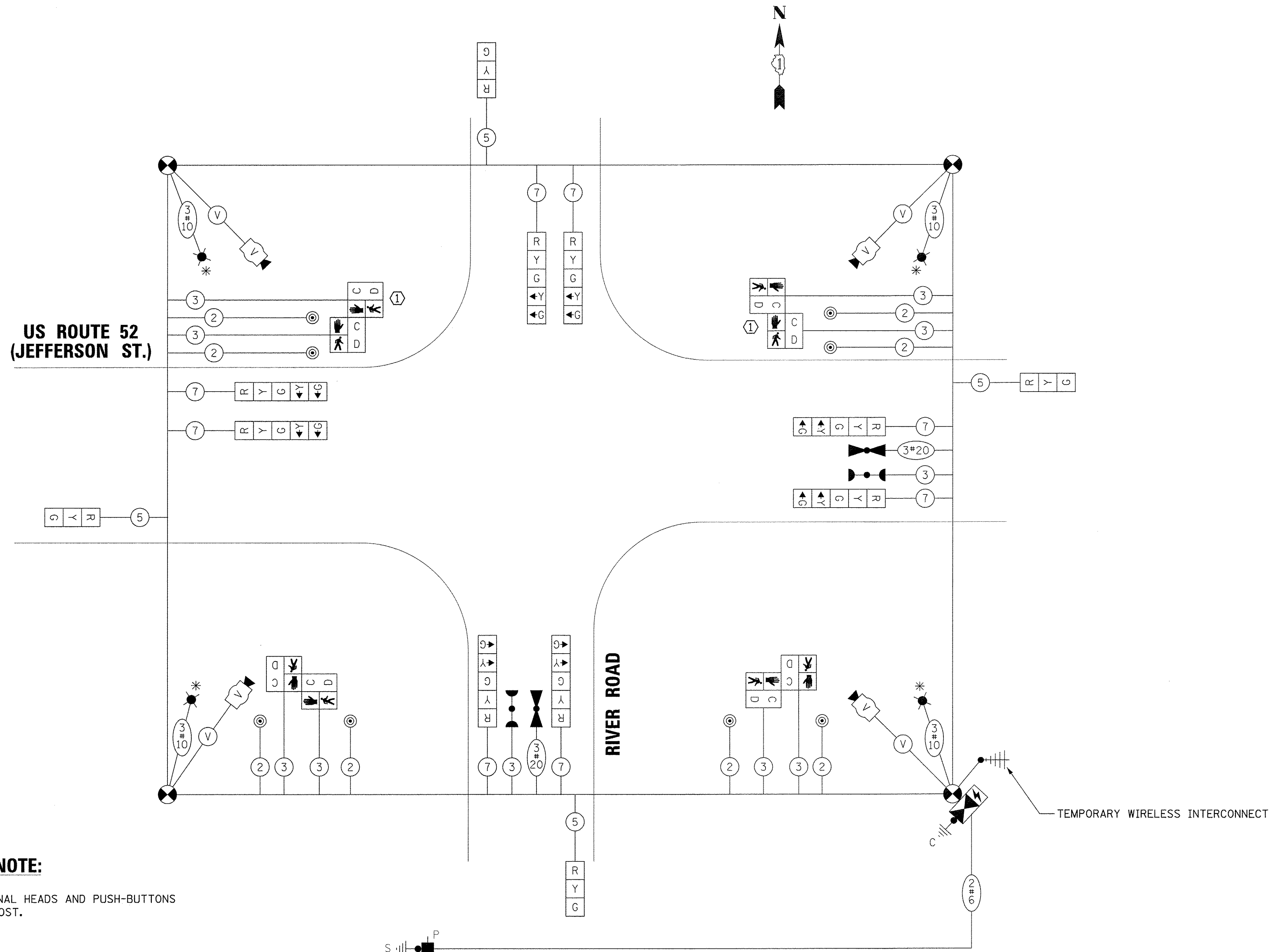
TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	5	12.0
(GREEN)	12	12	45	64.8
PERMISSIVE ARROW	16	10	10	16.0
PED. SIGNAL	4	20	100	80.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	4	400.0	50	800.0
TOTAL =				1297.8

ENERGY COSTS TO:

VILLAGE OF SHOREWOOD  
One Towne Center Blvd.  
Shorewood, IL 60404

ENERGY SUPPLY: CONTACT: NEW BUSINESS  
PHONE: (866) 639-3532  
COMPANY: COMMONWEALTH EDISON  
ACCOUNT NUMBER: ---

**US ROUTE 52 (JEFFERSON ST.)**



**CONSTRUCTION NOTE:**

- ① INSTALL PEDESTRIAN SIGNAL HEADS AND PUSH-BUTTONS ON A BARREL MOUNTED POST.

**FINAL CONDITION  
TEMPORARY CABLE PLAN  
(NOT TO SCALE)**

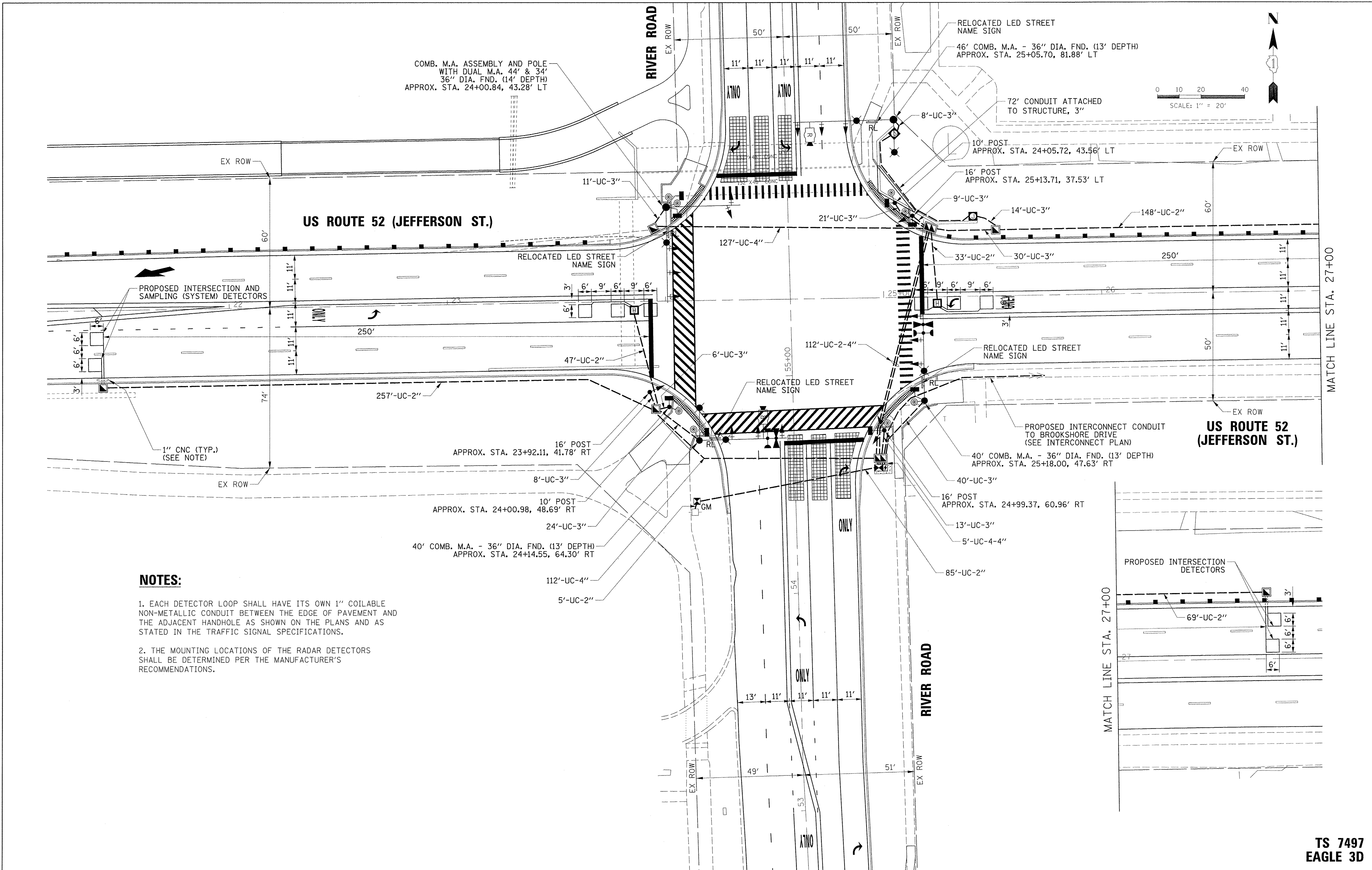
\* SEE SHEET 84 FOR TEMPORARY LIGHTING DETAILS

TS SHEET NO. 13

**TS 7497  
EAGLE 3D**

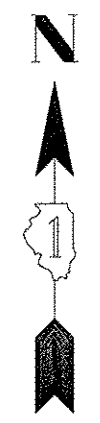
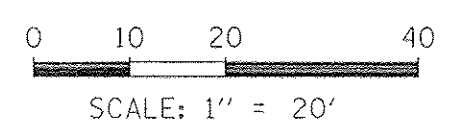
FILE NAME =	USER NAME = jstrick	DESIGNED - TFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM, AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE US ROUTE 52 (JEFFERSON ST.) AND RIVER ROAD	F.A.P. RTE. 607	SECTION 15-00040-00-CH	COUNTY WILL	TOTAL SHEETS 138	SHEET NO. 73A
Na:\Shorewood\070001\070001C\2016\C16-02	Traffic\TS12a_TCB2-US52-River_Final_Stage.dwg	DRAWN - FPB	REVISED -			CONTRACT NO. 61D82				
Default	PLOT SCALE = 20'	CHECKED - GMZ	REVISED -			[ILLINOIS] FED. AID PROJECT				
	PLOT DATE = 3/20/2017	DATE -	REVISED -	SCALE: SHEET OF SHEETS STA. TO STA.						





**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 RADAR DETECTORS SHALL BE DETERMINED PER THE MANUFACTURER'S RECOMMENDATIONS.



MATCH LINE STA. 27+00

MATCH LINE STA. 27+00

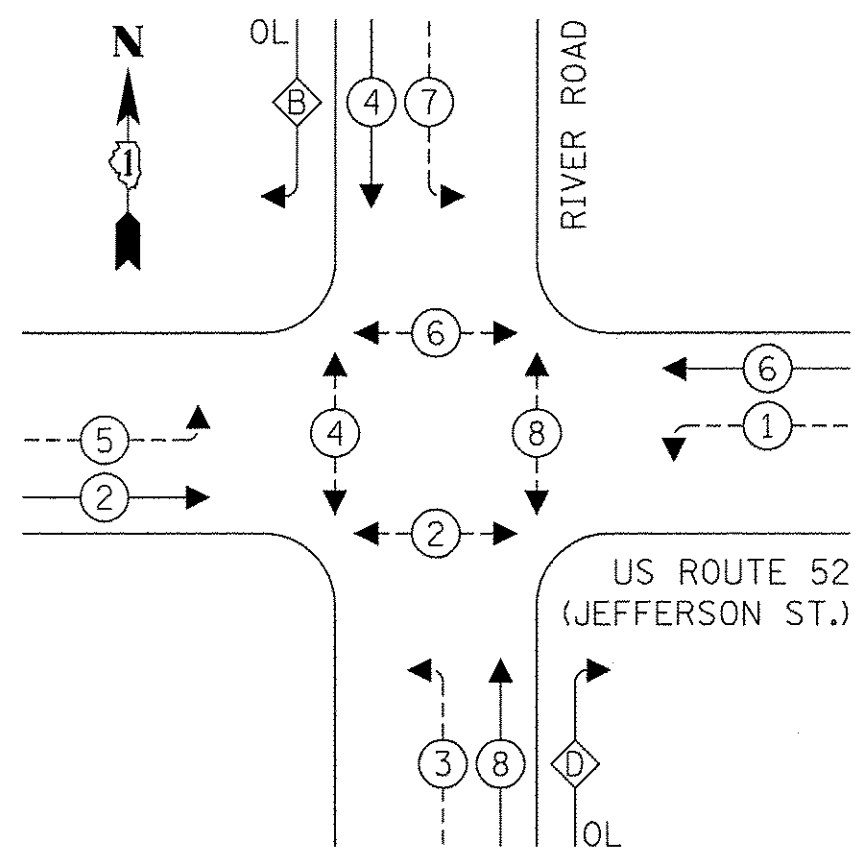
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN  
US ROUTE 52 (JEFFERSON ST.) AND RIVER ROAD

TS 7497  
EAGLE 3D

FILE NAME = N:\Shorewood\070001\070001C\2016\C16-02	USER NAME = jstrick Traffic\TS13_TSD-US52-River.dgn	DESIGNED - TFS	REVISED -	SCALE: SHEET OF SHEETS STA. TO STA.	F.A.P. RTE. 607	SECTION 15-00040-00-CH	COUNTY WILL	TOTAL SHEETS 138	SHEET NO. 74
Default	PLOT SCALE = 20'	DRAWN - FPB	REVISED -		CONTRACT NO. 61D82		ILLINOIS FED. AID PROJECT		
	PLOT DATE = 3/20/2017	CHECKED - GMZ	REVISED -						
		DATE -	REVISED -						

**PROPOSED CONTROLLER SEQUENCE**



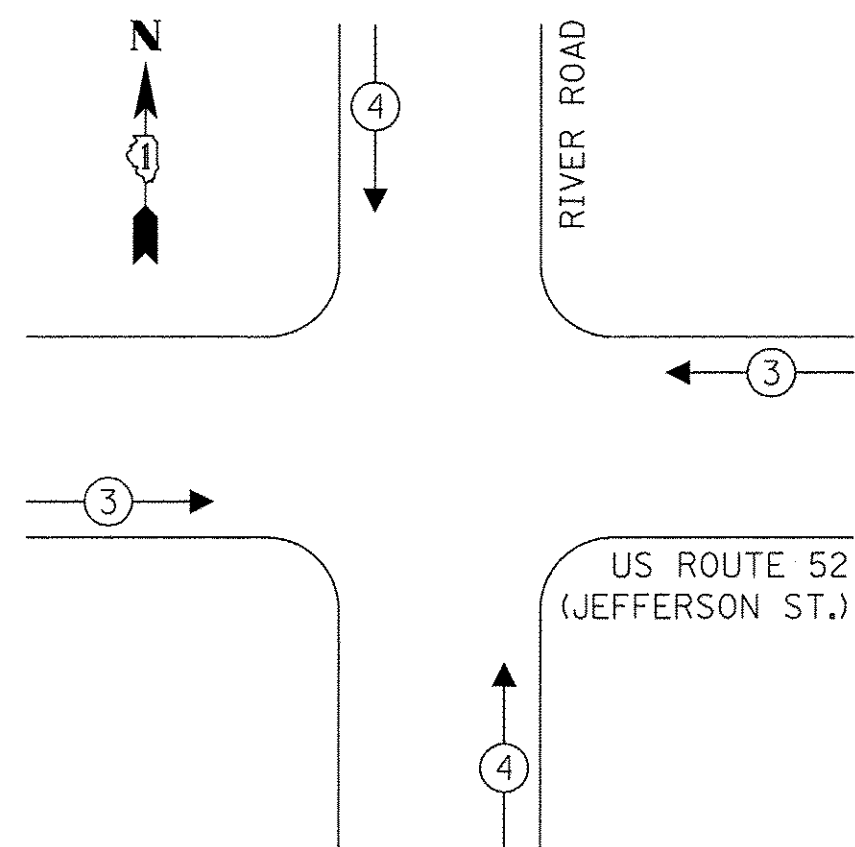
**LEGEND:**

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

**RIGHT TURN OVERLAP PHASE DESIGNATION:**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	= 4	+ 5
D	= 8	+ 1

**PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



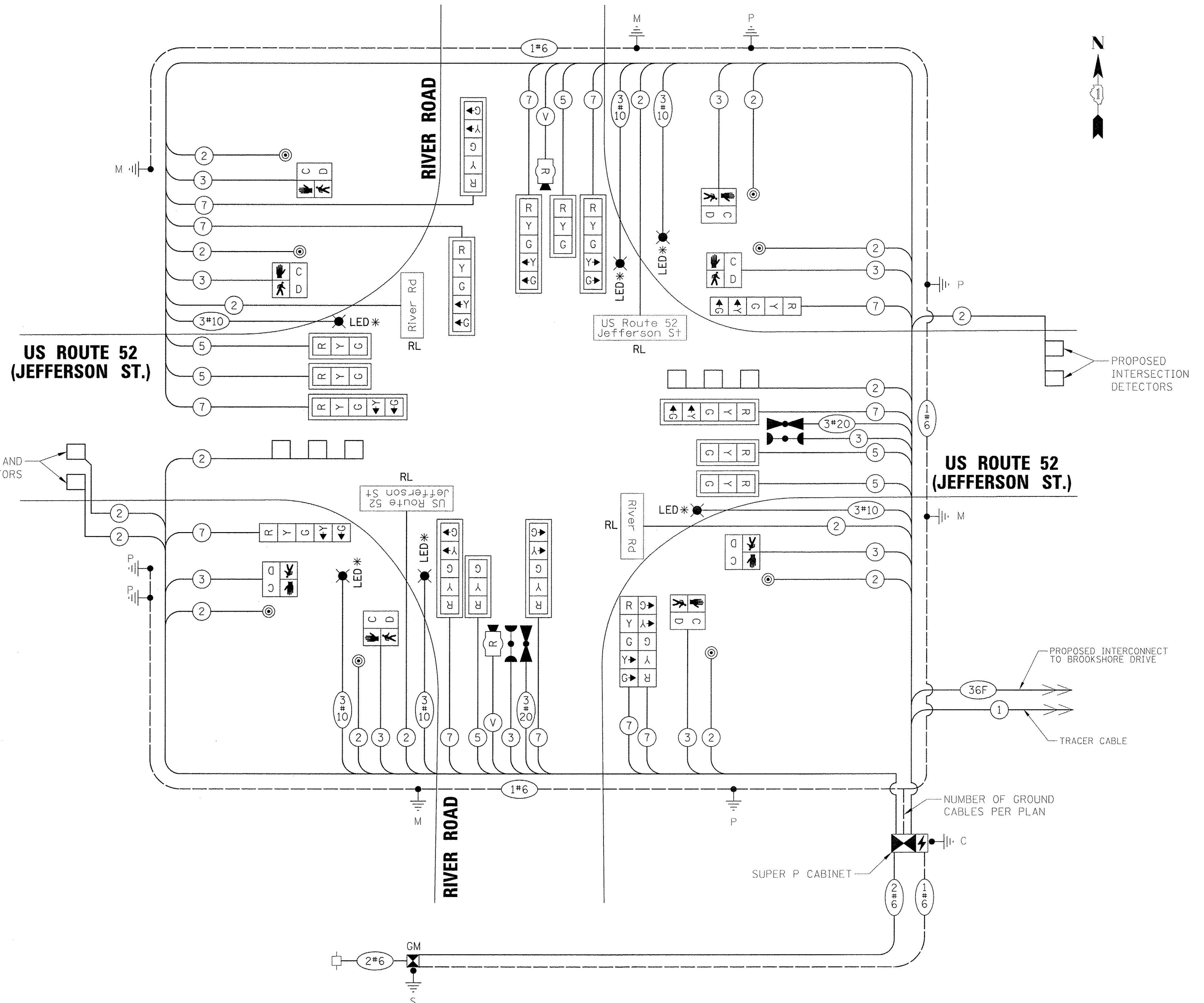
**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	18	11	50	99.0
(YELLOW)	18	20	5	18.0
(GREEN)	18	12	45	97.2
PERMISSIVE ARROW	24	10	10	24.0
PED. SIGNAL	8	20	100	160.0
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	4	120	50	240.0
LUMINAIRE	6	219	50	657.0
TOTAL =				1470.2

ENERGY COSTS TO:

VILLAGE OF SHOREWOOD  
One Towne Center Blvd.  
Shorewood, IL 60404

ENERGY SUPPLY: CONTACT: NEW BUSINESS  
PHONE: (866) 639-3532  
COMPANY: COMMONWEALTH EDISON  
ACCOUNT NUMBER: ---



\* - SEE SHEET 87 FOR LIGHTING SYSTEM DETAILS

**CABLE PLAN**  
(NOT TO SCALE)

TS SHEET NO. 15

FILE NAME =	USER NAME = jstrick	DESIGNED - TFS	REVISED -
N:\Shorewood\070001\070001C\2016\C16-02	Traffic\TS14_CAB-US52-River.dgn	DRAWN - FPB	REVISED -
Default	PLT SCALE = 20'	CHECKED - GMZ	REVISED -
	PLT DATE = 3/20/2017	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

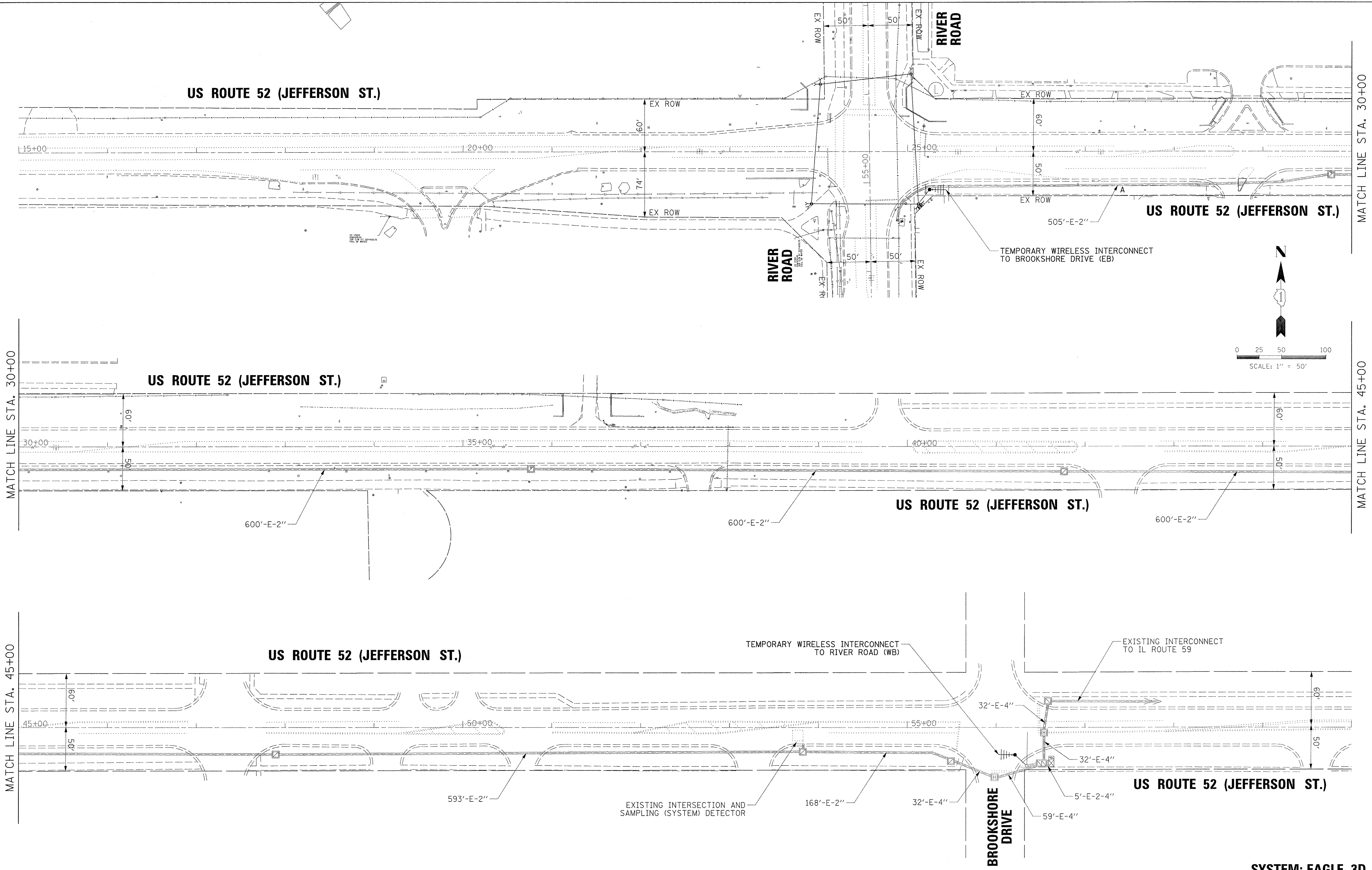
**CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE**  
**US ROUTE 52 (JEFFERSON ST.) AND RIVER ROAD**

F.A.P. RTE. 607	SECTION 15-00040-00-CH	COUNTY WILL	TOTAL SHEETS 138	SHEET NO. 75
CONTRACT NO. 61D82			ILLINOIS FED. AID PROJECT	

SCALE: SHEET OF SHEETS STA. TO STA.

TS 7497  
EAGLE 3D





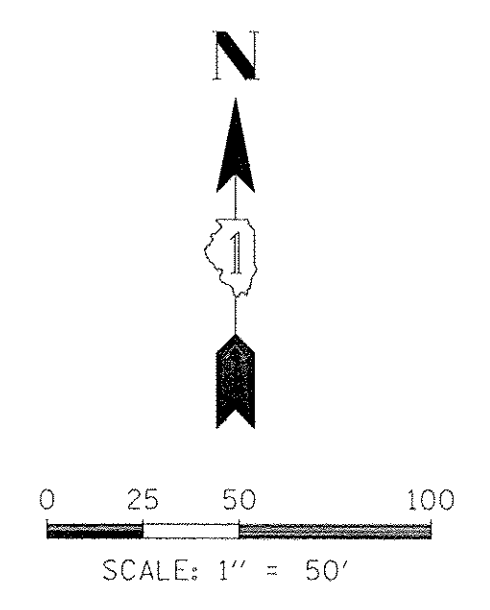
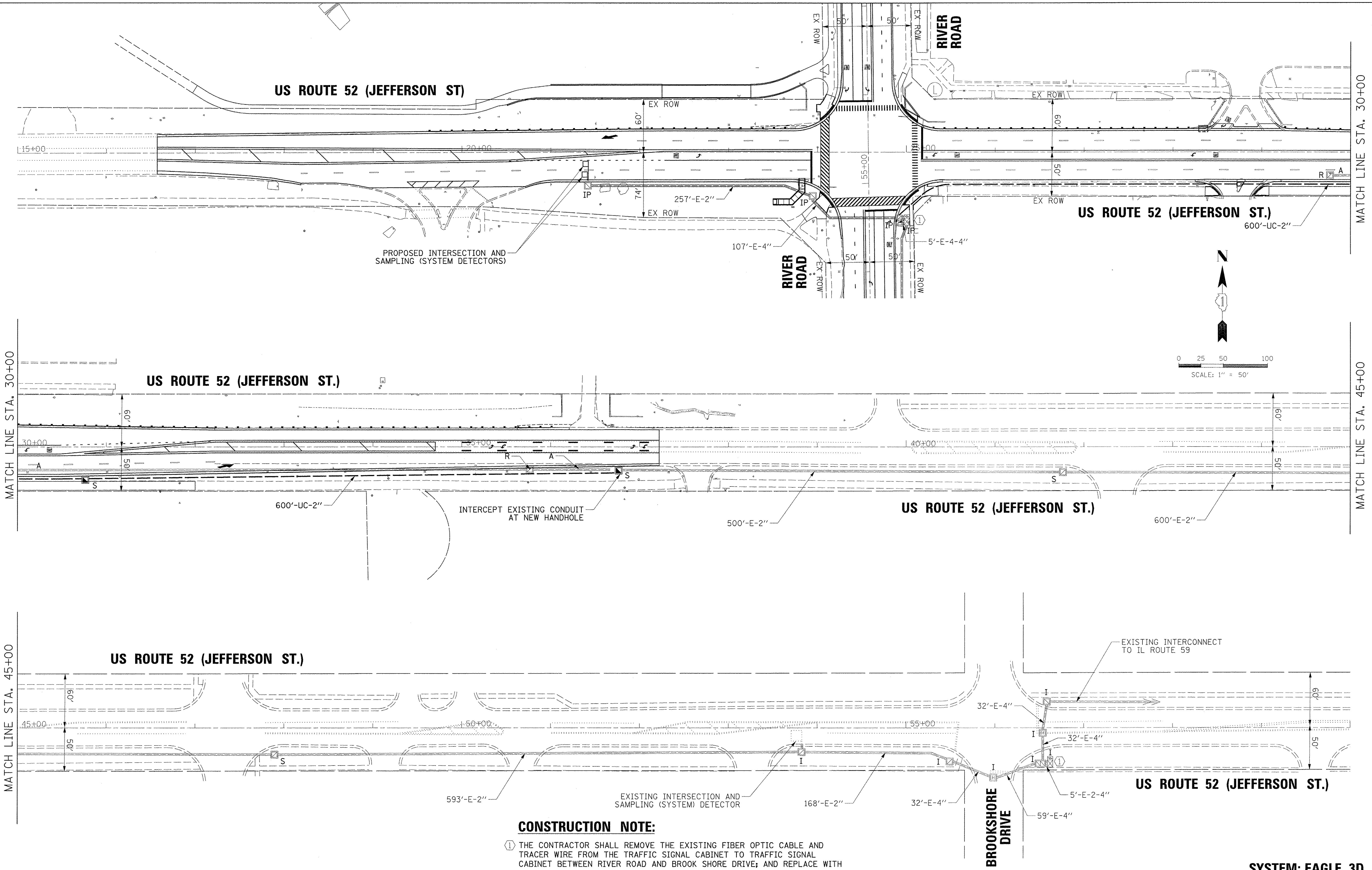
SYSTEM: EAGLE 3D

FILE NAME =	USER NAME = jstrick	DESIGNED - TFS	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TEMPORARY INTERCONNECT PLAN US ROUTE 52 (JEFFERSON ST.) AND RIVER ROAD</b>		F.A.P. RTE. 607	SECTION 15-00040-00-CH	COUNTY WILL	TOTAL SHEETS 138	SHEET NO. 76
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Default	PLOT SCALE = 50'	CHECKED - GMZ	REVISED -		ILLINOIS FED. AID PROJECT						
	PLOT DATE = 3/20/2017	DATE -	REVISED -								





TS SHEET NO. 19

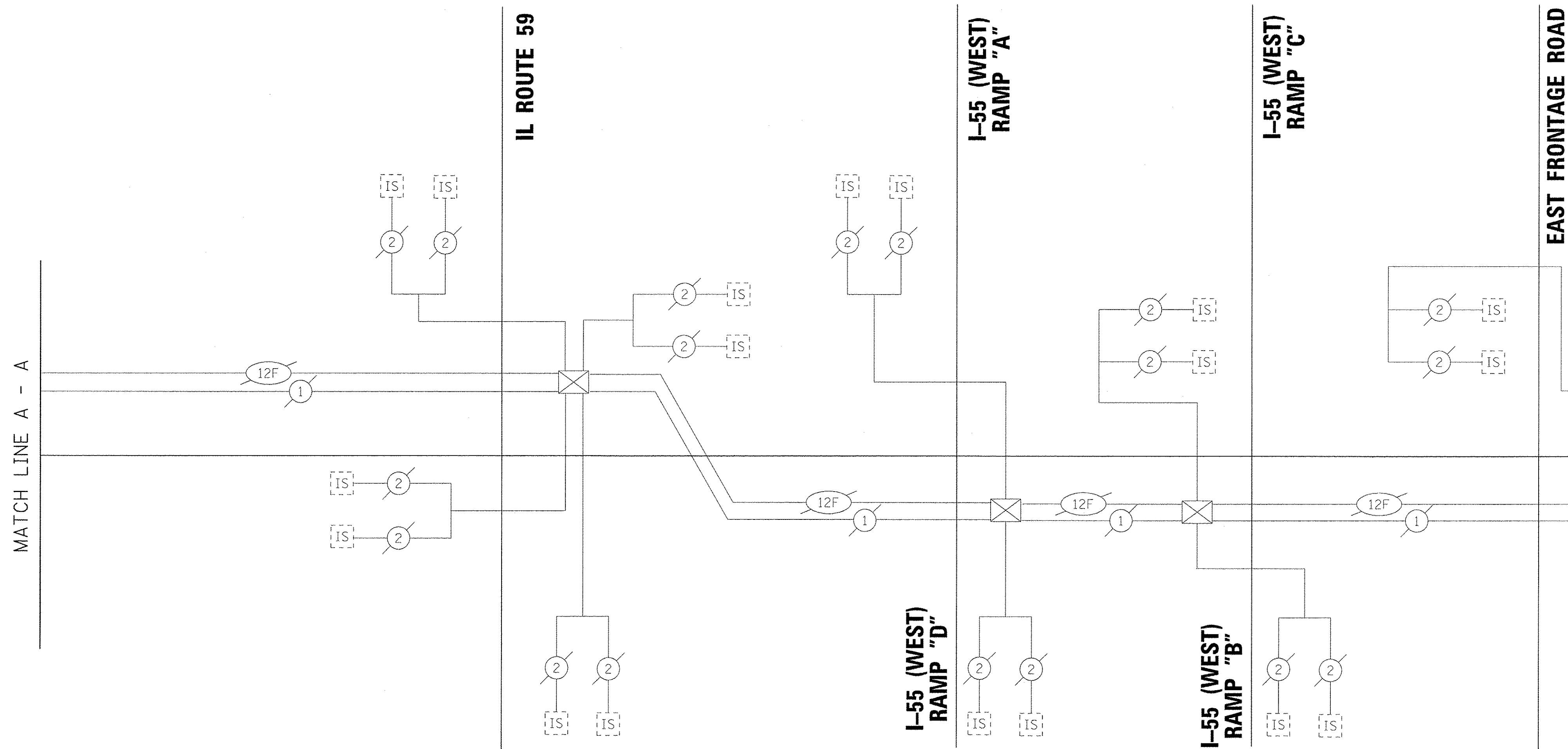
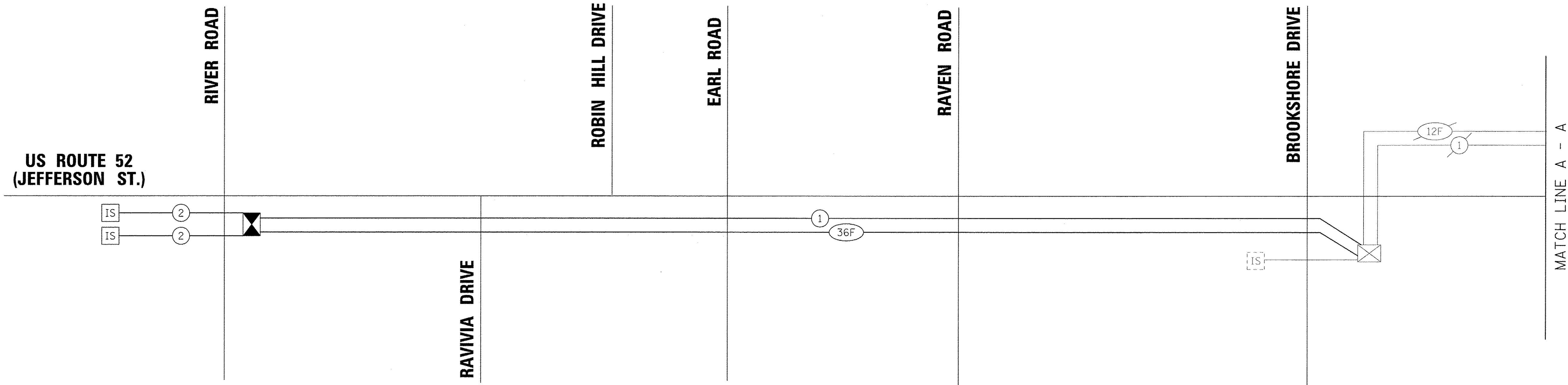
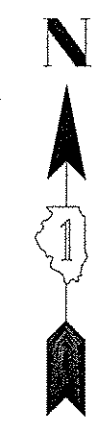


**CONSTRUCTION NOTE:**

① THE CONTRACTOR SHALL REMOVE THE EXISTING FIBER OPTIC CABLE AND TRACER WIRE FROM THE TRAFFIC SIGNAL CABINET TO TRAFFIC SIGNAL CABINET BETWEEN RIVER ROAD AND BROOK SHORE DRIVE; AND REPLACE WITH 62.5/125, MM 12F SM 24F FIBER OPTIC CABLE AND NEW NO. 14, 1C TRACER WIRE.

**SYSTEM: EAGLE 3D**

FILE NAME = N:\Shorewood\070001\070001C\2016\C16-02	USER NAME = jsitrick	DESIGNED - TFS	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>INTERCONNECT PLAN US ROUTE 52 (JEFFERSON ST.) AND RIVER ROAD</b>		F.A.P. RTE. 607	SECTION 15-00040-00-CH	COUNTY WILL	TOTAL SHEETS 138	SHEET NO. 78
	PLLOT SCALE = 50'	CHECKED - GMZ	REVISED -		SCALE: 1" = \$SCALE	SHEET	OF	SHEETS	STA.	TO STA.	CONTRACT NO. 61082
Default	PLLOT DATE = 3/20/2017	DATE -	REVISED -								



SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1200
HANDHOLE	EACH	2
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	2924
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2644
REMOVE EXISTING HANDHOLE	EACH	2
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	3266
REMOVAL OF FIBER OPTIC CABLE	FOOT	3269
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1

TS SHEET NO. 20

**SYSTEM: EAGLE 3D**



## LIGHTING GENERAL NOTES

1. BEFORE INSTALLING LIGHT STANDARDS NEAR OVERHEAD AND UNDERGROUND ELECTRIC UTILITIES SHALL CALL COM ED FOR LOCATION APPROVAL AND MINIMUM CLEARANCE REQUIREMENTS.
2. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY AS WELL AS SUPERVISION/ DIRECTION AND MEANS/METHODS OF CONSTRUCTION.
3. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE FOLLOWING SPECIFICATIONS, WHICH ARE HEREBY MADE A PART HEREOF:
  - A. "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", AS PREPARED BY IDOT.
  - B. "THE NATIONAL ELECTRICAL CODE".
  - C. MUNICIPAL CODES & STANDARDS.
4. NO MATERIALS SHALL BE DELIVERED TO THE JOB SITE UNTIL ALL PERTINENT EQUIPMENT SUBMITTALS HAVE BEEN REVIEWED BY THE ENGINEER.
5. ALL UNDERGROUND WIRING SHALL BE COPPER, XLP TYPE-USE, EXTRA ABRASION RESISTANCE, 600 VOLTS, INSTALLED IN SCH 40 HDPE CONDUIT A MINIMUM 30 INCHES BELOW FINISHED GRADE, FOLLOWING THE ROADWAY OR SIDEWALK EDGE.
6. TO MAINTAIN THE STRUCTURAL INTEGRITY OF LIGHT POLES WITH LUMINAIRE ARMS, THEY SHALL NOT BE ERECTED AND LEFT TO STAND WITHOUT LUMINAIRES.
7. ALL POLE HANDHOLES SHALL FACE AWAY FROM TRAFFIC.
8. THE ELECTRICAL CONTRACTOR SHALL FURNISH TWO SETS OF FULL SIZE RECORD DRAWINGS TO THE OWNER'S REPRESENTATIVE UPON COMPLETION OF THE LIGHTING AND ELECTRICAL IMPROVEMENTS. THE DRAWINGS SHALL SHOW THE INSTALLED LOCATIONS OF ALL LIGHT POLES, UNDERGROUND CONDUITS/ WIRING, HANDHOLES, JUNCTION BOXES & CONTROLLER CABINETS. THE DRAWINGS WILL BE REVIEWED BY THE ENGINEER.
9. UPON COMPLETION OF THE PROPOSED LIGHTING IMPROVEMENTS, THE CONTRACTOR SHALL PERFORM ELECTRICAL TESTING AND VERIFY THAT THE INSTALLATION COMPLIES WITH THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS. ALL ELECTRICAL TESTING SHALL BE PERFORMED IN THE PRESENCE OF THE ENGINEER.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ESTABLISHMENT OF FINISHED GRADE. THE RESIDENT ENGINEER MAY ASSIST THE CONTRACTOR, AS APPLICABLE, BUT THE RESPONSIBILITY FOR COORDINATING THE FINISHED GRADE ELEVATION WITH THE TOP OF THE FOUNDATION HEIGHT AND THE LIGHT SHALL REMAIN WITH THE CONTRACTOR.
11. THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE REQUIREMENTS FOR WIRE MARKERS AND SHALL TAG ALL WIRE MARKERS AND SHALL TAG ALL WIRE ACCORDINGLY.
12. CONDUIT MUST BE POSITIONED IN THE FIELD TO AVOID CONFLICT WITH TREES, BUSHES, DRAINS AND OTHER UTILITIES AND LANDSCAPING.
13. THE EXACT LOCATIONS OF ALL UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY COMPONENTS OF THE LIGHTING SYSTEM. FOR THE LOCATIONS OF THE UTILITIES, CALL JULIE TOLL FREE AT 1-800-892-0123.
14. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MARK THE PROPOSED LOCATIONS OF ALL LIGHT POLES AND LIGHTING CONTROLLERS FOR EXAMINATION AND CONFIRMATION WITH THE RESIDENT ENGINEER AT THE PRECONSTRUCTION INSPECTION. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO AUGERING FOR LIGHT POLE FOUNDATIONS. THE EXACT LOCATIONS OF ALL ITEMS SHALL BE CONFIRMED WITH THE RESIDENT ENGINEER PRIOR TO STARTING WORK.
15. THE LIGHT POLE LOCATIONS SHALL COMPLY WITH THE MINIMUM CLEAR WIDTH FOR AN ACCESSIBLE ROUTE FOR SIDEWALKS PER CURRENT AMERICAN WITH DISABILITIES ACT (ADA) & PUBLIC RIGHTS-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG) REQUIREMENTS.

## ROADWAY LIGHTING BILL OF MATERIALS

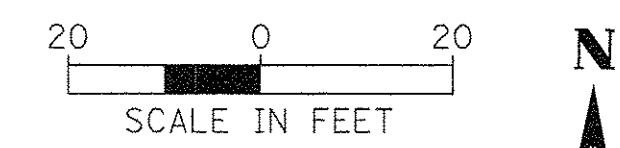
CODE NUMBER	DESCRIPTION	UNIT	QUANTITY
20800150	TRENCH BACKFILL	CU YD	20
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	170
81028720	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1" DIA.	FOOT	510
81028730	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1 1/4" DIA.	FOOT	4110
81100300	CONDUIT ATTACHED TO STRUCTURE, 1" DIA., GALVANIZED STEEL	FOOT	120
81200210	CONDUIT EMBEDDED IN STRUCTURE, 1" DIA., PVC	FOOT	210
81300300	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6"x6"x4"	EACH	2
81400730	HANDHOLE, COMPOSITE CONCRETE	EACH	4
81702130	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	20500
81702450	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 10	FOOT	1470
83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	162
84200500	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	23
84200804	REMOVAL OF POLE FOUNDATION	EACH	23
89502380	REMOVE EXISTING HANDHOLE	EACH	2
*X0326654	ORNAMENTAL LIGHT UNIT, COMPLETE	EACH	3
*X1400113	LUMINAIRE, LED, HORIZONTAL MOUNT, MEDIUM WATTAGE	EACH	6
*X8250091	COMBINATION LIGHTING CONTROLLER	EACH	1
*X8250500	LIGHTING UNIT COMPLETE, SPECIAL	EACH	17
*X8410102	TEMPORARY LIGHTING SYSTEM	LSUM	1
*X8410103	REMOVE TEMPORARY LIGHTING SYSTEM	LSUM	1
*Z0033020	LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	6
*Z0033024	MAINTAIN EXISTING LIGHTING SYSTEM	LSUM	1

• SEE SPECIAL PROVISION

## ABBREVIATIONS

A	AMPS
CKT	CIRCUIT
CNC	COILABLE NON-METALLIC CONDUIT
DIA	DIAMETER
FT	FOOT
FOC	FACE OF CURB
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
HDPE	HIGH DENSITY POLYETHYLENE
HH	HAND HOLE
HPS	HIGH PRESSURE SODIUM
PVC	POLYVINYL CHLORIDE
RGS	RIGID GALVANIZED STEEL CONDUIT
ROW	RIGHT OF WAY
SS	STAINLESS STEEL
STA	STATION
V	VOLTS
W	WATTS
WR	WEATHER RESISTANT

FILE NAME =	USER NAME = jstbrick	DESIGNED - AJD	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>US ROUTE 52 RIVER ROAD LIGHTING GENERAL NOTES &amp; BILL OF MATERIALS</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - LRR	REVISED -			607	15-00040-00-CH	WILL	138	80	
Default		CHECKED - AJD	REVISED -			CONTRACT NO. 61D82					
		DATE -	REVISED -			SCALE: N.T.S.		SHEET 1 OF 1 SHEETS		STA. N/A TO STA. N/A	



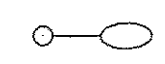

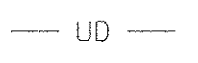

**PROJECT LIMITS**  
**16 + 57.10**

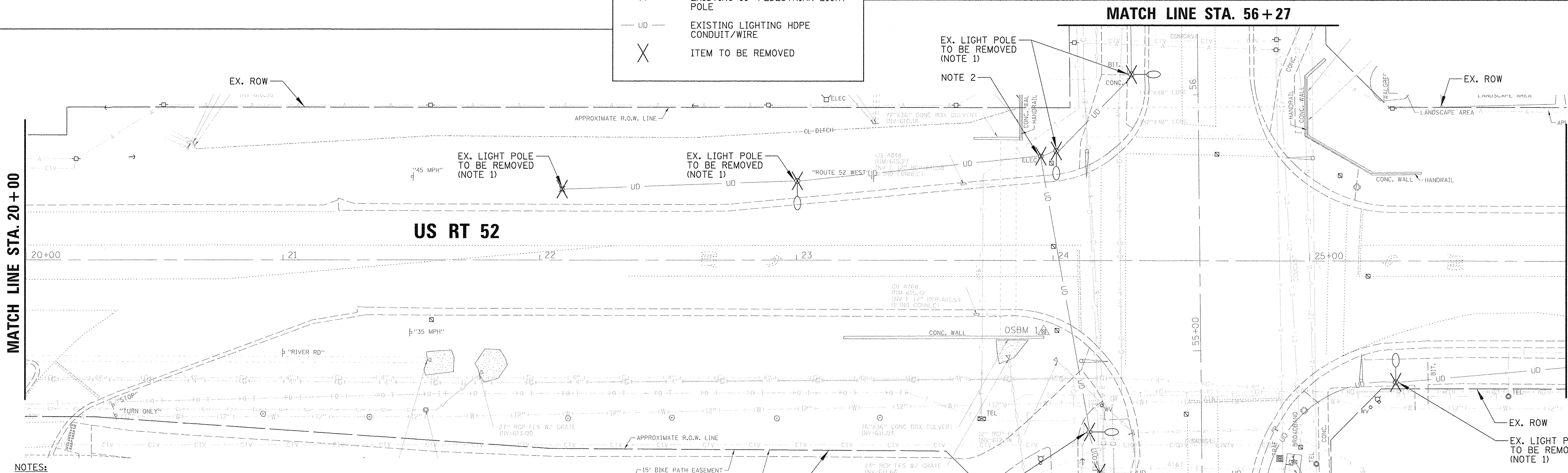
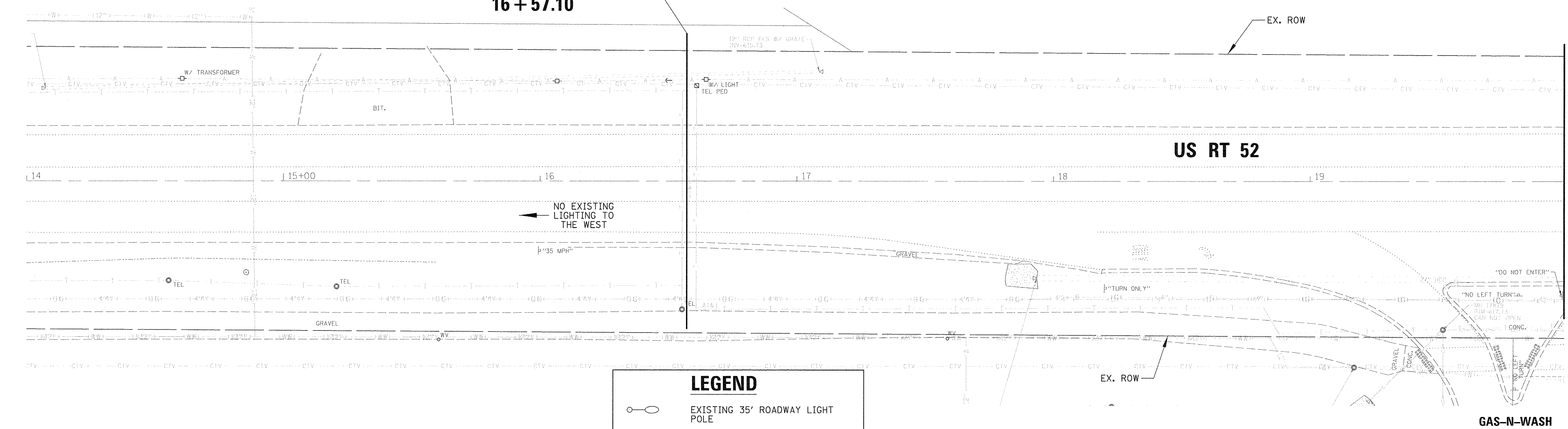
**US RT 52**

**MATCH LINE STA. 20 + 00**

**GAS-N-WASH**

**LEGEND**

-  EXISTING 35' ROADWAY LIGHT POLE
-  EXISTING 16' PEDESTRIAN LIGHT POLE
-  EXISTING LIGHTING HDPE CONDUIT/WIRE
-  ITEM TO BE REMOVED

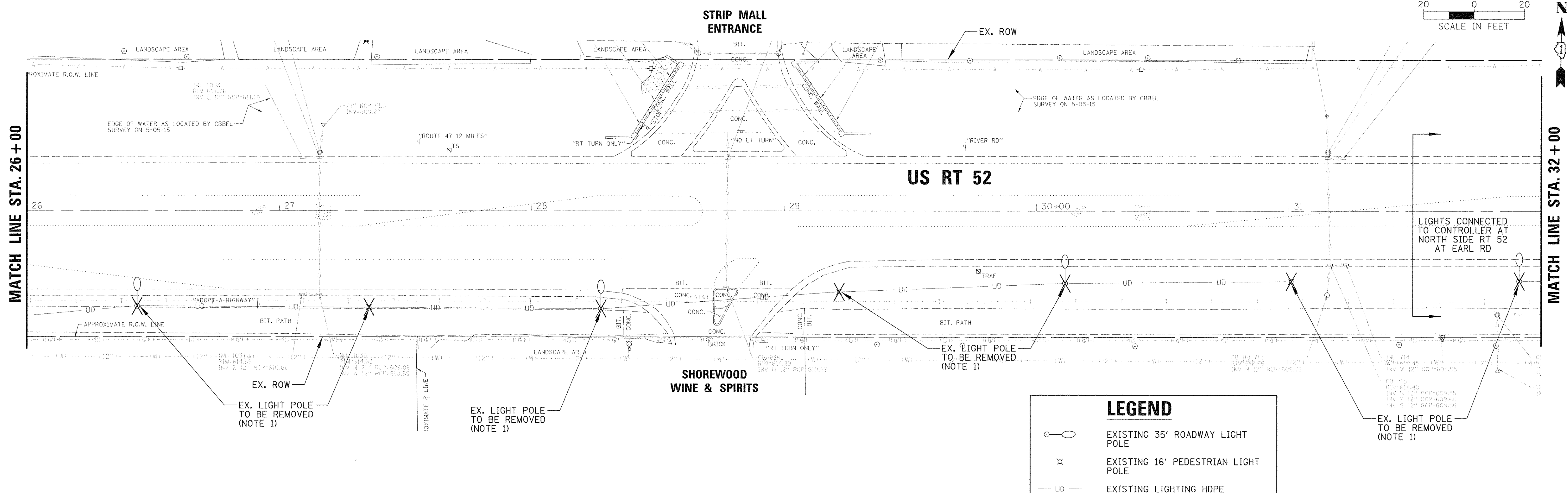
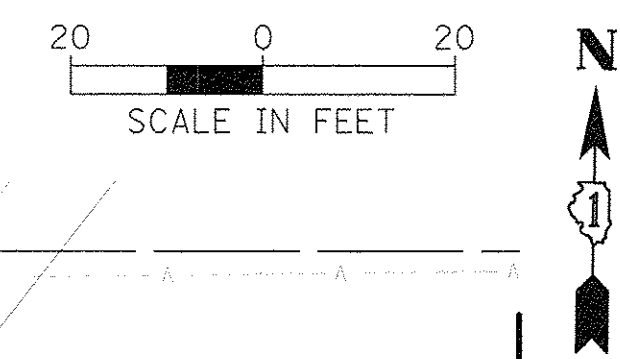


- NOTES:**
1. AFTER TEMPORARY LIGHTING IS INSTALLED & OPERATIONAL, THE CONTRACTOR SHALL DISCONNECT EXISTING LIGHT POLE AT ITS SOURCE, REMOVE POLE/LUMINAIRE & RETURN TO PUBLIC WORKS. EXISTING CONCRETE FOUNDATION SHALL BE REMOVED & CONDUIT/WIRE REMOVED TO 2' BELOW GRADE & ABANDON.
  2. AFTER EXISTING LIGHTING HAS BEEN DISCONNECTED, CONTRACTOR SHALL REMOVE & DISPOSE OF EXISTING COMPOSITE CONCRETE HANDHOLES.

FILE NAME = Default	USER NAME = jstrick	DESIGNED - AJD	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>US ROUTE 52 (JEFFERSON STREET)</b> <b>EXISTING CONDITIONS &amp; LIGHTING REMOVAL PLAN</b>			F.A.P. RTE. 607	SECTION 15-00040-00-CH	COUNTY WILL	TOTAL SHEETS 138	SHEET NO. 81
	PLOT SCALE = 20'	CHECKED - AJD	REVISED -		SCALE: 20'	SHEET 1	OF 3	SHEETS	STA. 16+50	TO STA. 26+00	CONTRACT NO. 61D82 ILLINOIS FED. AID PROJECT	
	PLOT DATE = 2/23/2017	DATE -	REVISED -									

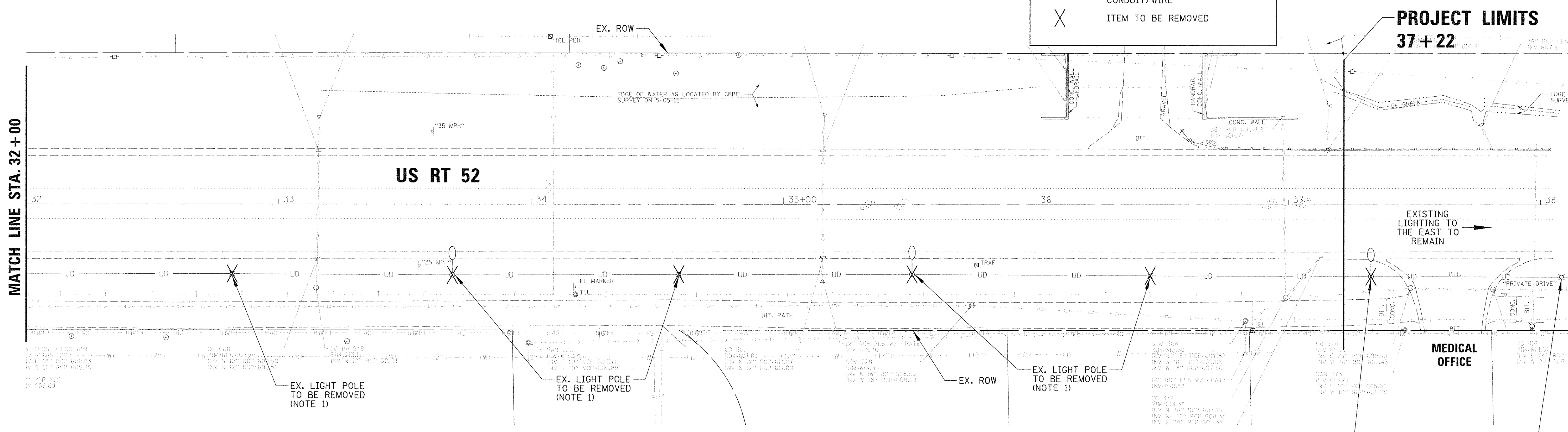
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**LEGEND**

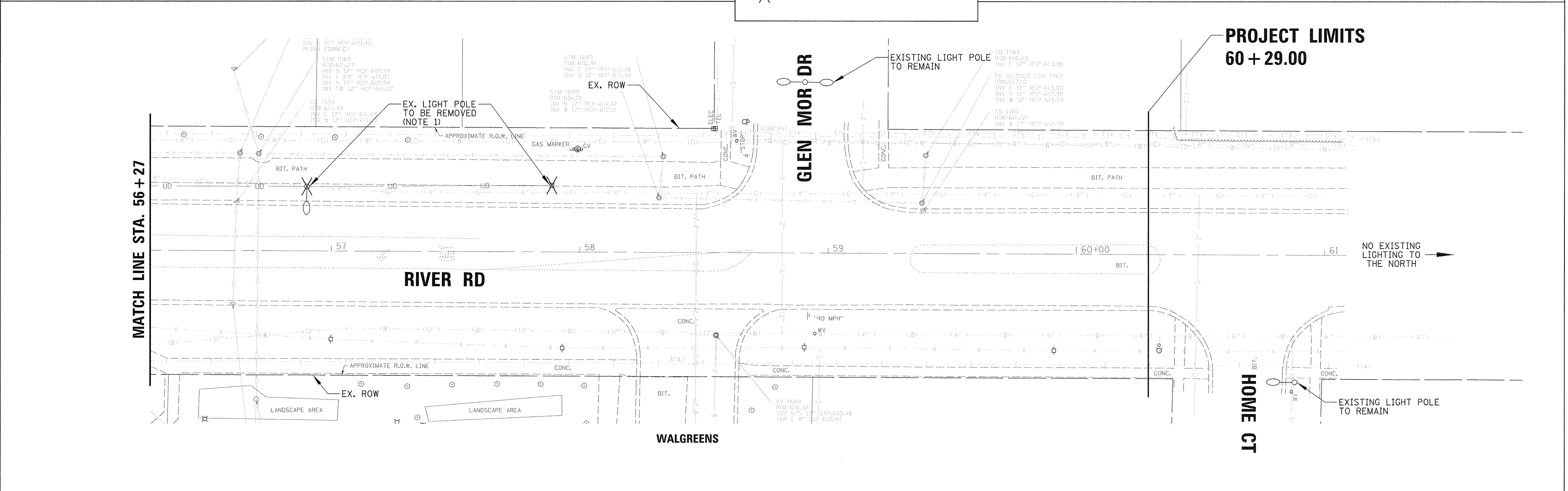
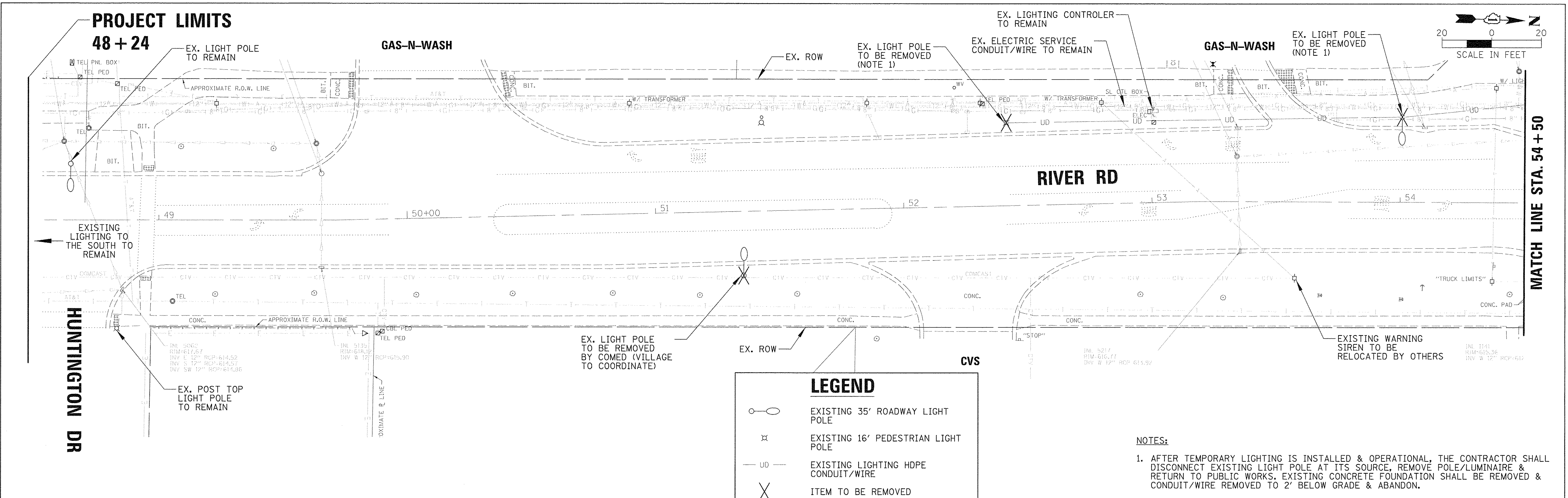
- EXISTING 35' ROADWAY LIGHT POLE
- EXISTING 16' PEDESTRIAN LIGHT POLE
- EXISTING LIGHTING HDPE CONDUIT/WIRE
- ITEM TO BE REMOVED



**NOTES:**

1. AFTER TEMPORARY LIGHTING IS INSTALLED & OPERATIONAL, THE CONTRACTOR SHALL DISCONNECT EXISTING LIGHT POLE AT ITS SOURCE, REMOVE POLE/LUMINAIRE & RETURN TO PUBLIC WORKS. EXISTING CONCRETE FOUNDATION SHALL BE REMOVED & CONDUIT/WIRE REMOVED TO 2' BELOW GRADE & ABANDON.

FILE NAME =	USER NAME = jstrick	DESIGNED - AJD	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>US ROUTE 52 (JEFFERSON STREET) EXISTING CONDITIONS &amp; LIGHTING REMOVAL PLANS</b>			F.A.P. RTE. 607	SECTION 15-00040-00-CH	COUNTY WILL	TOTAL SHEETS 138	SHEET NO. 82
Default	PLOT SCALE = 20'	CHECKED - AJD	REVISED -		SCALE: 20'	SHEET 2	OF 3 SHEETS	STA. 26+00	TO STA. 38+25	CONTRACT NO. 61D82		
	PLOT DATE = 2/23/2017	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							
N:\Shorewood\070001\070001C\2016\16-02\Mech\LREM_070001C1602_02.sht												



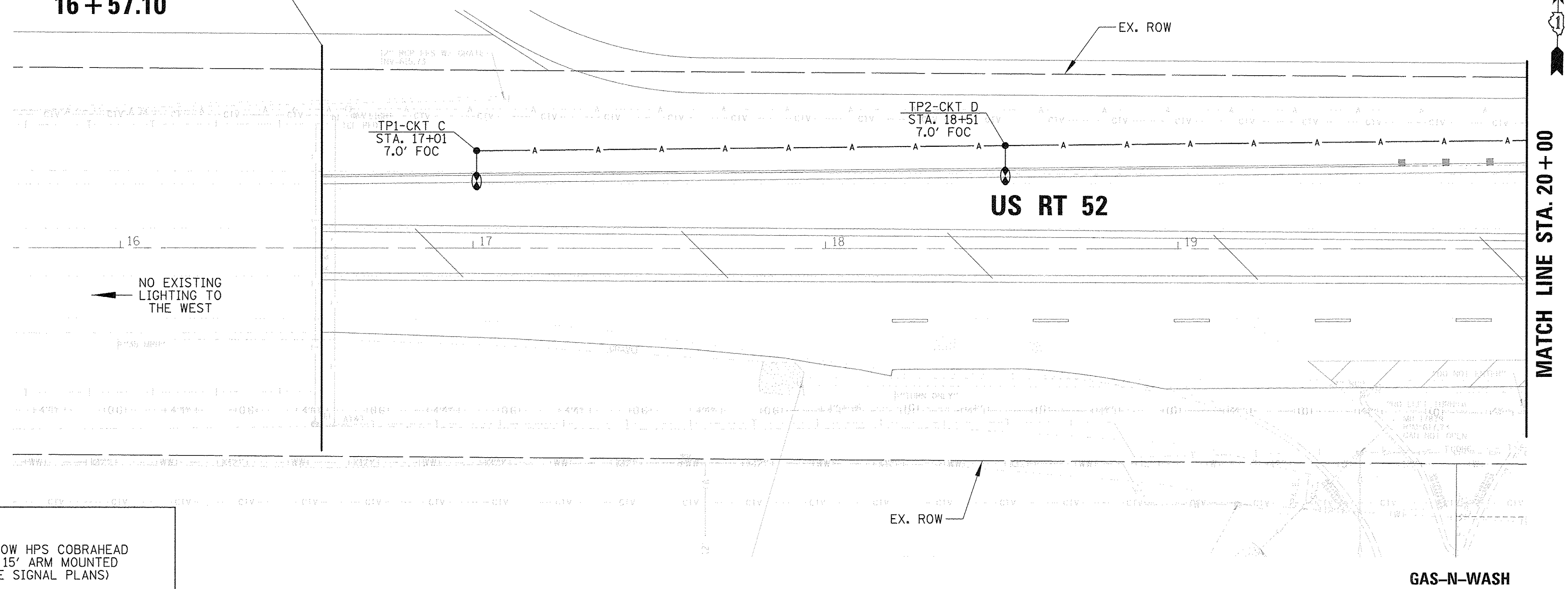
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Default	PLOT SCALE = 20'	CHECKED - AJD	REVISED -		SCALE: 20'	SHEET 3	OF 3 SHEETS	STA. 49+00 TO STA. 60+00	CONTRACT NO. 61D82				
	PLOT DATE = 2/23/2017	DATE	REVISED -		ILLINOIS FED. AID PROJECT								
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**NOTES:**

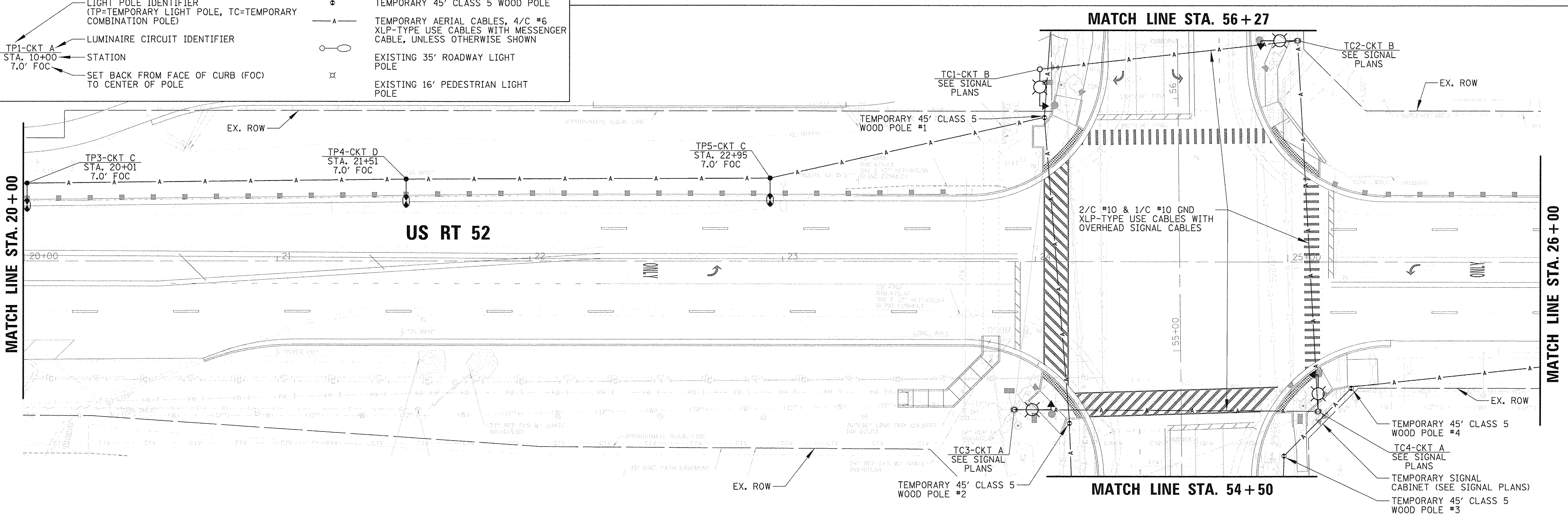
1. TEMPORARY COMBINATION LIGHTING SHALL BE CONTROLLED FROM TEMPORARY SIGNAL CABINET. INSTALL (2) 20A-120V-1P CIRCUIT BREAKERS (1 FOR CKT A & 1 FOR CKT B). EACH LUMINAIRE SHALL HAVE INTEGRAL PHOTOCELL.
2. TEMPORARY ROADWAY LIGHTING SHALL BE CONTROLLED FROM EXISTING LIGHTING CONTROLLER.
3. TEMPORARY LIGHTING SHALL BE INSTALLED & OPERATIONAL BEFORE EXISTING LIGHTING IS DISCONNECTED/REMOVED. THE ROADWAY & INTERSECTION SHALL BE LIT EVERY NIGHT FROM DUSK TO DAWN THROUGHOUT CONSTRUCTION.
4. FURNISHED & INSTALLING TEMPORARY LIGHTING FOR ROADWAY & INTERSECTION SHALL BE PAID FOR UNDER "TEMPORARY LIGHTING SYSTEM" (SEE SPECIAL PROVISION).
5. REMOVAL & DISPOSAL OF TEMPORARY LIGHTING FOR ROADWAY & INTERSECTION SHALL BE PAID FOR UNDER "REMOVE TEMPORARY LIGHTING SYSTEM" (SEE SPECIAL PROVISION).
6. AFTER PROPOSED LIGHTING IS INSTALLED & OPERATIONAL, CONTRACTOR SHALL REMOVE TEMPORARY LIGHTING (SEE SPECIAL PROVISION).

**PROJECT LIMITS  
16 + 57.10**



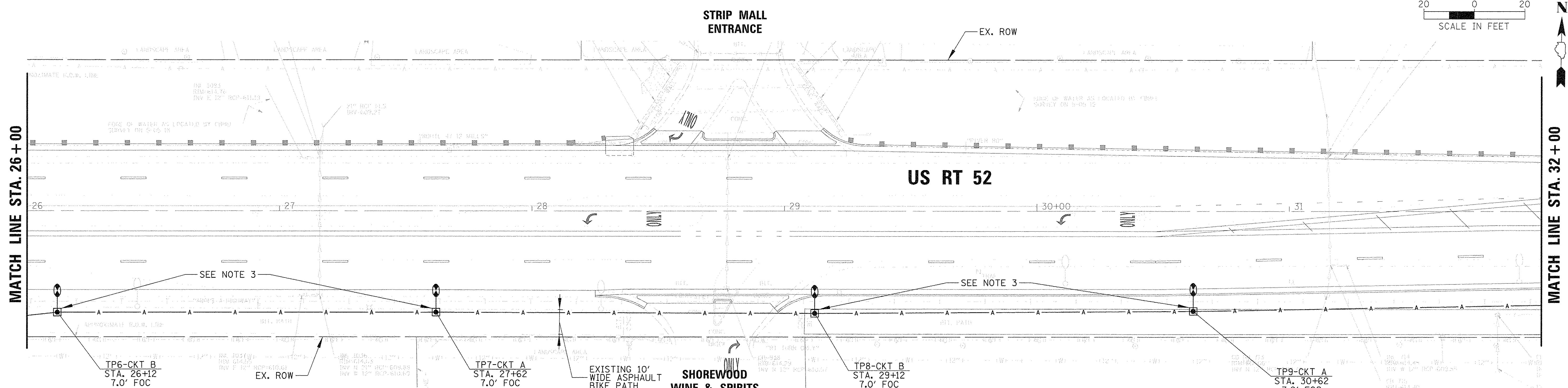
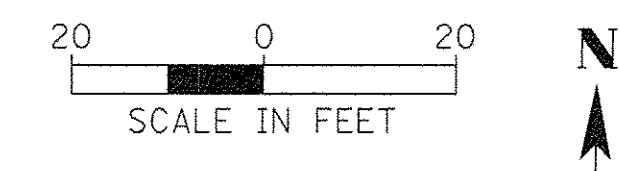
**LEGEND**

- TEMPORARY WOOD POLE WITH A 400W HPS ROADWAY TYPE LUMINAIRE MOUNTED AT 50' ON A 15' MAST ARM
- TEMPORARY 400W HPS COBRAHEAD LUMINAIRE ON 15' ARM MOUNTED AT 45'-0" (SEE SIGNAL PLANS)
- TEMPORARY 45' CLASS 5 WOOD POLE
- TEMPORARY AERIAL CABLES, 4/C #6 XLP-TYPE USE CABLES WITH MESSENGER CABLE, UNLESS OTHERWISE SHOWN
- EXISTING 35' ROADWAY LIGHT POLE
- EXISTING 16' PEDESTRIAN LIGHT POLE
- LIGHT POLE IDENTIFIER (TP=TEMPORARY LIGHT POLE, TC=TEMPORARY COMBINATION POLE)
- LUMINAIRE CIRCUIT IDENTIFIER
- STATION
- SET BACK FROM FACE OF CURB (FOC) TO CENTER OF POLE



FILE NAME =	USER NAME = jstrick	DESIGNED - AJD	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>US ROUTE 52 (JEFFERSON STREET) TEMPORARY LIGHTING PLAN</b>	F.A.P. RTE. 607	SECTION 15-00040-00-CH	COUNTY WILL	TOTAL SHEETS 138	SHEET NO. 84	CONTRACT NO. 61D82 ILLINOIS FED. AID PROJECT
Default	PLOT SCALE = 20'	CHECKED - AJD	REVISED -			SCALE: 20'	SHEET 1 OF 3 SHEETS	STA. 16+50 TO STA. 26+00			
	PLOT DATE = 2/23/2017	DATE	REVISED -								
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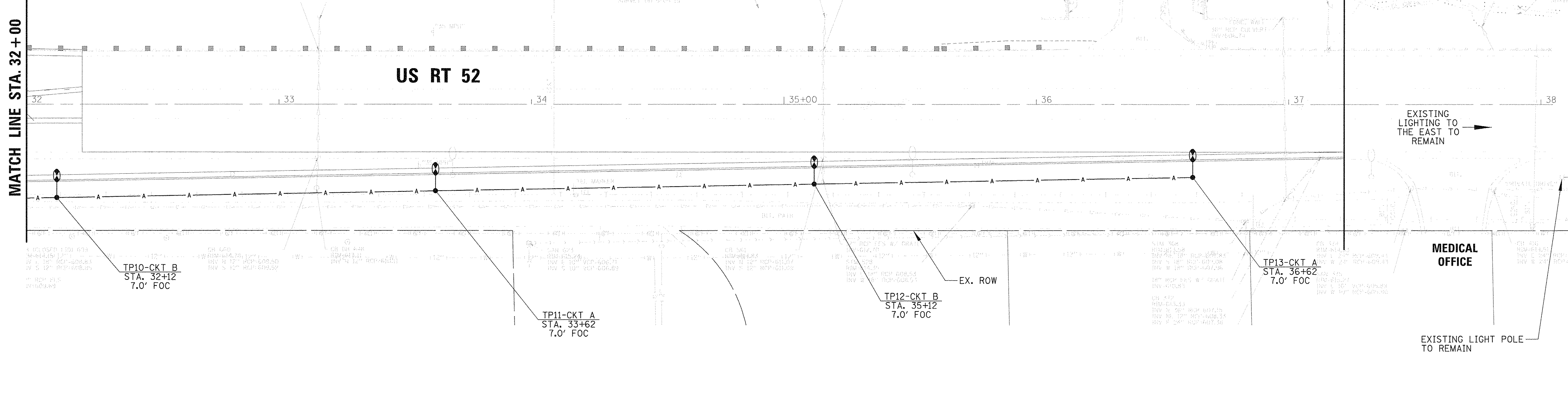




- NOTES:**
1. TEMPORARY ROADWAY LIGHTING SHALL BE CONTROLLED FROM EXISTING LIGHTING CONTROLLER.
  2. TEMPORARY LIGHTING SHALL BE INSTALLED & OPERATIONAL BEFORE EXISTING LIGHTING IS DISCONNECTED/REMOVED. THE ROADWAY & INTERSECTION SHALL BE LIT EVERY NIGHT FROM DUSK TO DAWN THROUGHOUT CONSTRUCTION.
  3. FURNISHED & INSTALLING TEMPORARY LIGHTING FOR ROADWAY & INTERSECTION SHALL BE PAID FOR UNDER "TEMPORARY LIGHTING SYSTEM" (SEE SPECIAL PROVISION).
  4. REMOVAL & DISPOSAL OF TEMPORARY LIGHTING FOR ROADWAY & INTERSECTION SHALL BE PAID FOR UNDER "REMOVE TEMPORARY LIGHTING SYSTEM" (SEE SPECIAL PROVISION).
  5. AFTER PROPOSED LIGHTING IS INSTALLED & OPERATIONAL, CONTRACTOR SHALL REMOVE TEMPORARY LIGHTING (SEE SPECIAL PROVISION).
  6. AFTER TEMPORARY POLES HAVE BEEN REMOVED CONTRACTOR SHALL SAWCUT 3' x 3' SQUARE IN EXISTING BIKE PATH & PATCH BIKE PATH (SEE CIVIL PLANS FOR PATH PAVEMENT REQUIREMENTS).

**LEGEND**

- (with arrow) TEMPORARY WOOD POLE WITH A 400W HPS ROADWAY TYPE LUMINAIRE MOUNTED AT 50' ON A 15' MAST ARM
- (with arrow) TEMPORARY 400W HPS COBRAHEAD LUMINAIRE ON 15' ARM MOUNTED AT 45'-0" (SEE SIGNAL PLANS)
- TEMPORARY 45' CLASS 5 WOOD POLE
- A — TEMPORARY AERIAL CABLES, 4/C #6 XLP-TYPE USE CABLES WITH MESSENGER CABLE, UNLESS OTHERWISE SHOWN
- (with dot) LIGHT POLE IDENTIFIER (TP=TEMPORARY LIGHT POLE, TC=TEMPORARY COMBINATION POLE)
- (with dot) LUMINAIRE CIRCUIT IDENTIFIER
- (with dot) EXISTING 35' ROADWAY LIGHT POLE
- (with dot) EXISTING 16' PEDESTRIAN LIGHT POLE
- S — STATION
- S — SET BACK FROM FACE OF CURB (FOC) TO CENTER OF POLE



**PROJECT LIMITS**  
37 + 22

EXISTING LIGHTING TO THE EAST TO REMAIN

**MEDICAL OFFICE**

EXISTING LIGHT POLE TO REMAIN

FILE NAME =	USER NAME = jstrick	DESIGNED - AJD	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>US ROUTE 52 (JEFFERSON STREET) TEMPORARY LIGHTING PLAN</b>			F.A.P. RTE. 607	SECTION 15-00040-00-CH	COUNTY WILL	TOTAL SHEETS 138	SHEET NO. 85
Default	PLOT SCALE = 20'	CHECKED - AJD	REVISED -		SCALE: 20'	SHEET 2	OF 3 SHEETS	STA. 26+00	TO STA. 38+25	CONTRACT NO. 61D82		
	PLOT DATE = 2/23/2017	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							
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**PROJECT LIMITS**

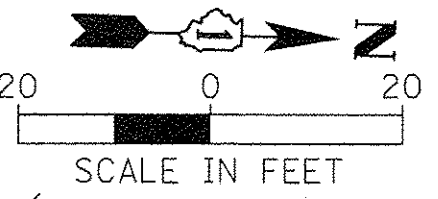
**48 + 24**

**GAS-N-WASH**

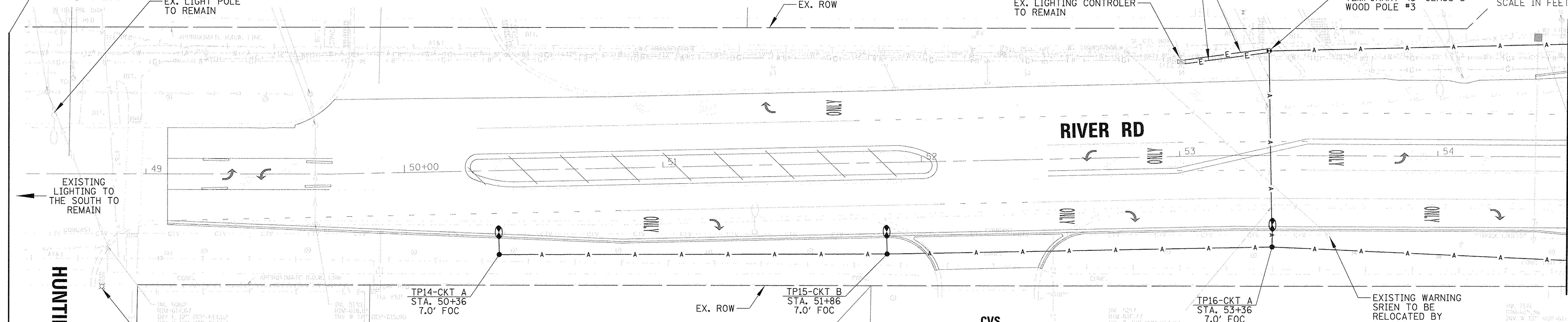
PROPOSED 1 1/2" SCH 40 HDPE UNDERGROUND CONDUIT WITH 4/C #6 & 1/C #6 GND XLP-TYPE USE CABLES

**GAS-N-WASH**

TEMPORARY 45' CLASS 5 WOOD POLE #3



**MATCH LINE STA. 54 + 50**



**LEGEND**

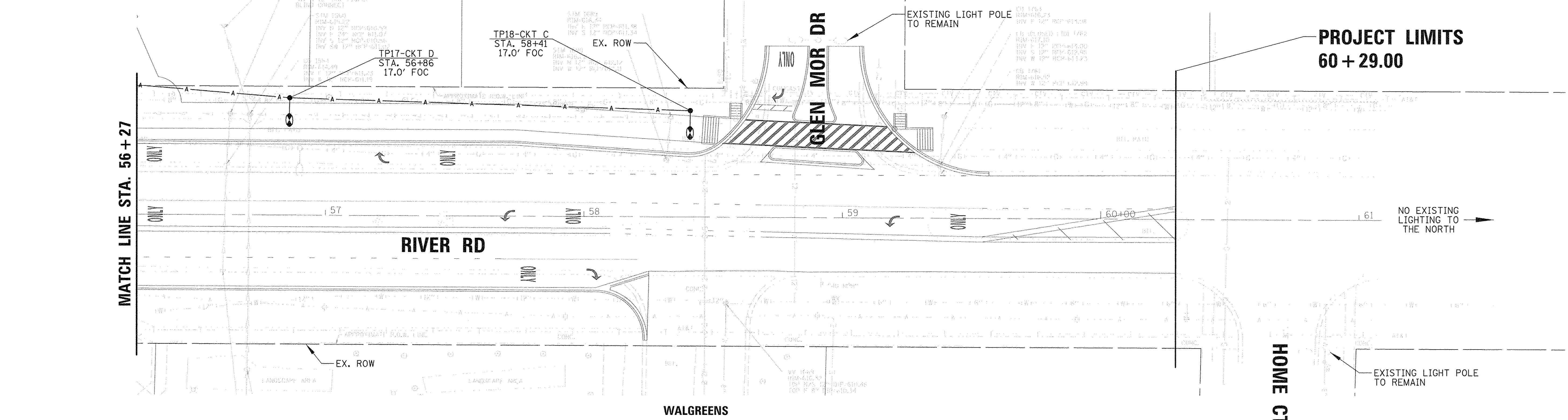
- TEMPORARY WOOD POLE WITH A 400W HPS ROADWAY TYPE LUMINAIRE MOUNTED AT 50' ON A 15' MAST ARM
- TEMPORARY 400W HPS COBRAHEAD LUMINAIRE ON 15' ARM MOUNTED AT 45'-0" (SEE SIGNAL PLANS)
- TEMPORARY 45' CLASS 5 WOOD POLE
- TEMPORARY AERIAL CABLES, 4/C #6 XLP-TYPE USE CABLES, WITH MESSENGER CABLE, UNLESS OTHERWISE SHOWN
- LIGHT POLE IDENTIFIER (TP=TEMPORARY LIGHT POLE, TC=TEMPORARY COMBINATION POLE)
- LUMINAIRE CIRCUIT IDENTIFIER
- STATION
- SET BACK FROM FACE OF CURB (FOC) TO CENTER OF POLE
- EXISTING 35' ROADWAY LIGHT POLE
- EXISTING 16' PEDESTRIAN LIGHT POLE

**NOTES:**

1. TEMPORARY ROADWAY LIGHTING SHALL BE CONTROLLED FROM EXISTING LIGHTING CONTROLLER.
2. TEMPORARY LIGHTING SHALL BE INSTALLED & OPERATIONAL BEFORE EXISTING LIGHTING IS DISCONNECTED/REMOVED. THE ROADWAY & INTERSECTION SHALL BE LIT EVERY NIGHT FROM DUSK TO DAWN THROUGHOUT CONSTRUCTION.
3. FURNISHED & INSTALLING TEMPORARY LIGHTING FOR ROADWAY & INTERSECTION SHALL BE PAID FOR UNDER "TEMPORARY LIGHTING SYSTEM" (SEE SPECIAL PROVISION).
4. REMOVAL & DISPOSAL OF TEMPORARY LIGHTING FOR ROADWAY & INTERSECTION SHALL BE PAID FOR UNDER "REMOVE TEMPORARY LIGHTING SYSTEM" (SEE SPECIAL PROVISION).
5. AFTER PROPOSED LIGHTING IS INSTALLED & OPERATIONAL, CONTRACTOR SHALL REMOVE TEMPORARY LIGHTING (SEE SPECIAL PROVISION).

**MATCH LINE STA. 56 + 27**

**PROJECT LIMITS**  
**60 + 29.00**



FILE NAME =	USER NAME = jstrick	DESIGNED - AJD	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>RIVER ROAD TEMPORARY LIGHTING PLAN</b>			F.A.P. RTE. 607	SECTION 15-00040-00-CH	COUNTY WILL	TOTAL SHEETS 138	SHEET NO. 86
Default	PLOT SCALE = 20'	CHECKED - AJD	REVISED -		SCALE: 20'	SHEET 3	OF 3 SHEETS	STA. 49+00	TO STA. 60+00	CONTRACT NO. 61D82		
	PLOT DATE = 2/23/2017	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							
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**NOTES:**

1. PROPOSED LIGHTING SHALL BE INSTALLED & OPERATIONAL BEFORE TEMPORARY LIGHTING IS DISCONNECTED/REMOVED. THE ROADWAY & INTERSECTION SHALL BE LIT EVERY NIGHT FROM DUSK TO DAWN THROUGHOUT CONSTRUCTION.
2. INSTALL A LUMINAIRE SAFETY CABLE ON ALL COMBINATION LUMINAIRES.
3. EMBEDDED CONDUIT TO DAYLIGHT INTO BACK SIDE OF SURFACE MOUNTED JUNCTION BOX.
4. CONDUIT EMBEDDED IN CONCRETE WALL. (SEE STRUCTURAL DRAWINGS).

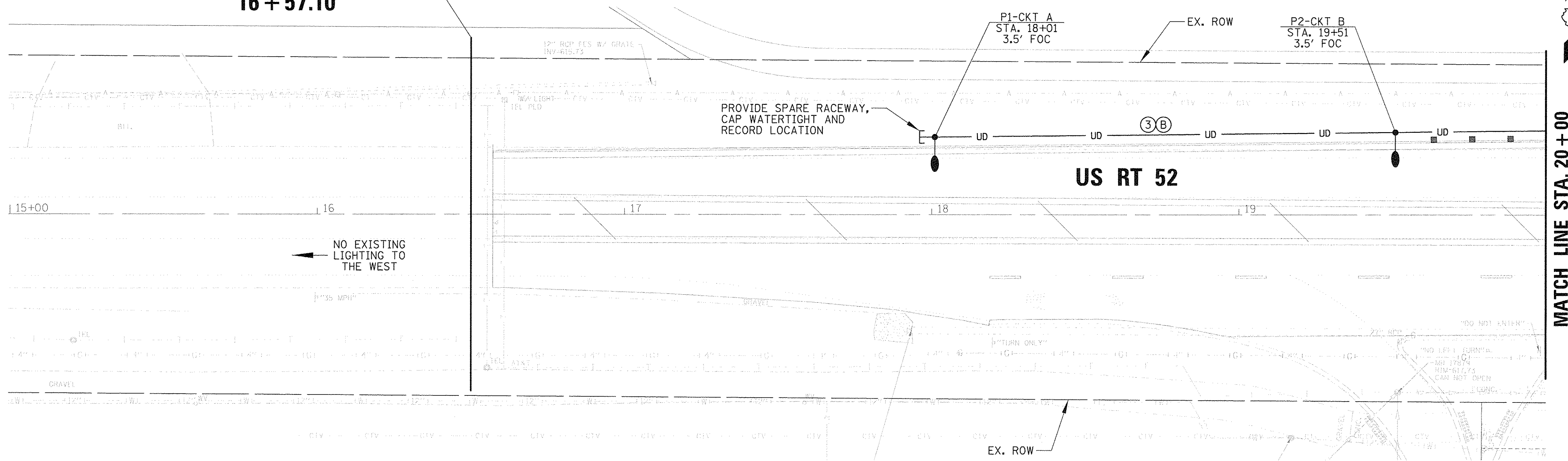
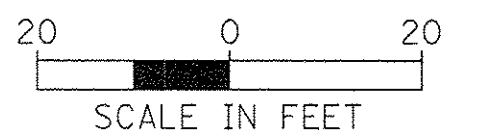
**CONDUIT SCHEDULE**

- ① 1" RGS CONDUIT
- ② 1" SCH 40 HDPE CONDUIT
- ③ 1 1/4" SCH 40 HDPE CONDUIT

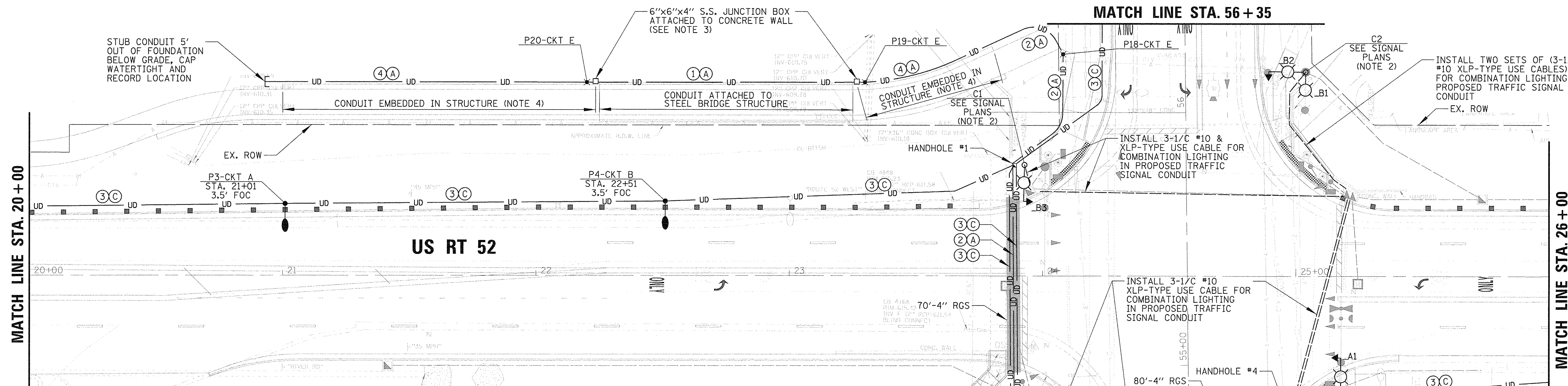
**CONDUCTOR SCHEDULE**

- Ⓐ 2/C #10 & 1/C #10 GND XLP-TYPE CABLES
- Ⓑ 2/C #6 & 1/C #6 GND XLP-TYPE CABLES
- Ⓒ 4/C #6 & 1/C #6 GND XLP-TYPE CABLES

**PROJECT LIMITS  
16 + 57.10**



**MATCH LINE STA. 56 + 35**



**LEGEND**

- PROPOSED 40' DECORATIVE STEEL POLE MOUNTED ON CONCRETE FOUNDATION WITH 219W LED ROADWAY TYPE LUMINAIRE MOUNTED ON 15' MAST ARM
- LIGHT POLE IDENTIFIER (P=LIGHT POLE, C=COMBINATION POLE)
- LUMINAIRE CIRCUIT IDENTIFIER
- STATION
- SET BACK FROM FACE OF CURB (FOC) TO CENTER OF POLE
- PROPOSED IDOT LED COBRAHEAD COMBINATION LUMINAIRE ON 15' ARM MOUNTED AT 45°-0"
- (2) PROPOSED IDOT LED COBRAHEAD COMBINATION LUMINAIRES ON 15' ARMS MOUNTED AT 45°-0" AT 90° APART
- PROPOSED 16" DECORATIVE STEEL POLE MOUNTED ON CONCRETE FOUNDATION WITH 35W LED PEDESTRIAN TYPE LUMINAIRE MOUNTED ON 2.5' MAST ARM
- PROPOSED COMPOSITE CONCRETE HANDHOLE
- COMBINATION LIGHTING CABLES IN TRAFFIC SIGNAL CONDUIT
- PROPOSED CONDUIT
- PROPOSED RGS CONDUIT SLEEVE, SIZE AS INDICATED
- EXISTING 120/240V-100A-1Ø LIGHTING CONTROLLER TO REMAIN

FILE NAME =	USER NAME = jstbrick	DESIGNED - AJD	REVISED -
Default	PLOT SCALE = 20'	DRAWN - LRR	REVISED -
	PLOT DATE = 2/23/2017	CHECKED - AJD	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

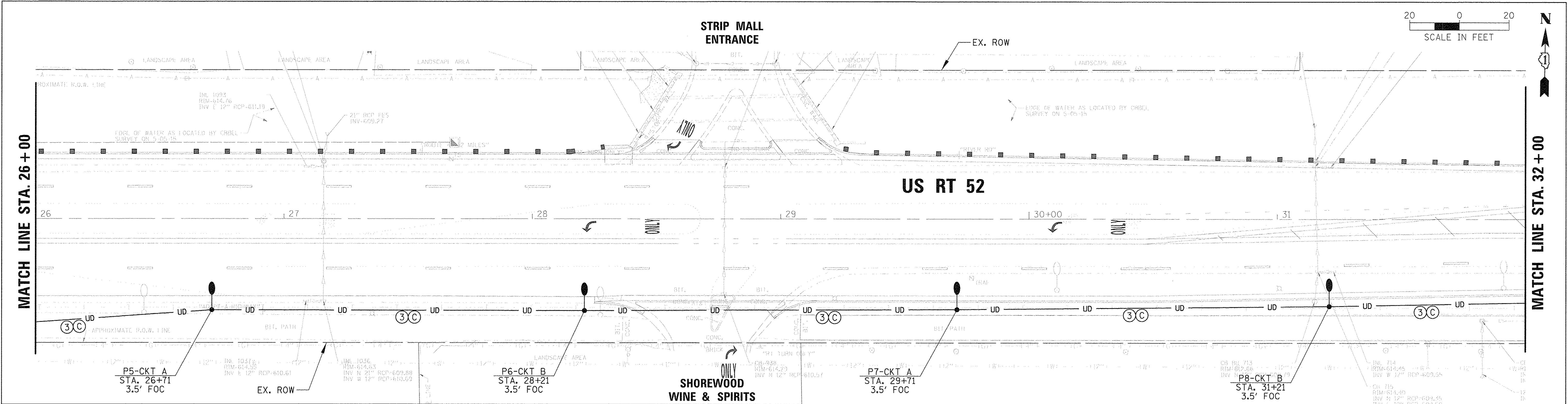
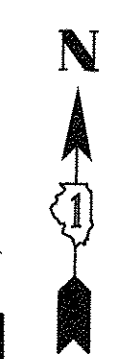
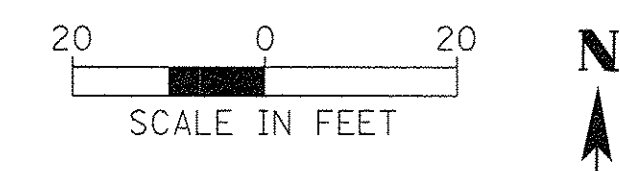
**US ROUTE 52 (JEFFERSON STREET)  
PROPOSED LIGHTING PLAN**

SCALE: 20' SHEET 1 OF 3 SHEETS STA. 16+50 TO STA. 26+00

F.A.P. RTE. 607	SECTION 15-00040-00-CH	COUNTY WILL	TOTAL SHEETS 138	SHEET NO. 87
			CONTRACT NO. 61D82	
ILLINOIS FED. AID PROJECT				

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### LEGEND

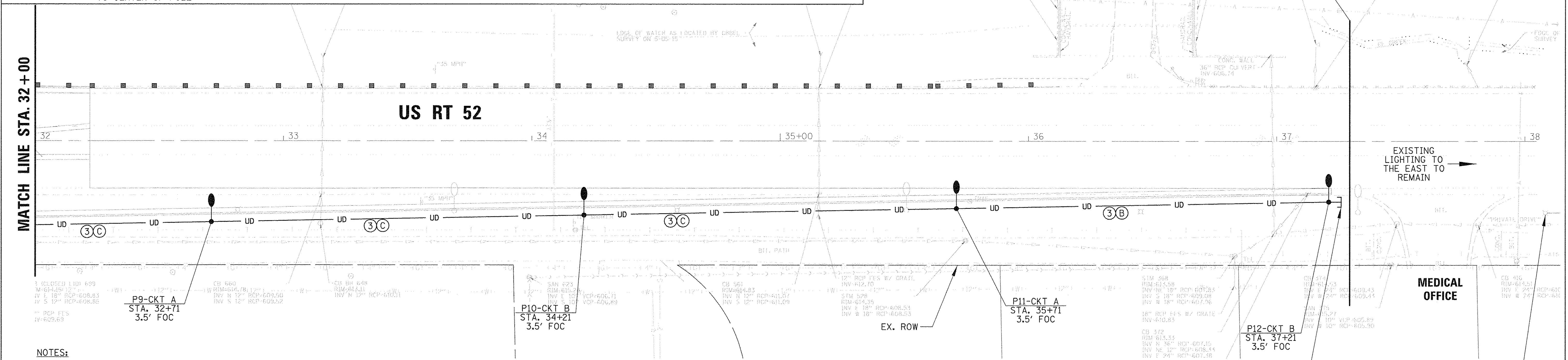
<ul style="list-style-type: none"> <li> PROPOSED 40' DECORATIVE STEEL POLE MOUNTED ON CONCRETE FOUNDATION WITH 219W LED ROADWAY TYPE LUMINAIRE MOUNTED ON 15' MAST ARM</li> <li> LIGHT POLE IDENTIFIER (P=LIGHT POLE, C=COMBINATION POLE)</li> <li> LUMINAIRE CIRCUIT IDENTIFIER</li> <li> SET BACK FROM FACE OF CURB (FOC) TO CENTER OF POLE</li> </ul>	<ul style="list-style-type: none"> <li> PROPOSED IDOT LED COBRAHEAD COMBINATION LUMINAIRE ON 15' ARM MOUNTED AT 45°-0"</li> <li> (2) PROPOSED IDOT LED COBRAHEAD COMBINATION LUMINAIRES ON 15' ARMS MOUNTED AT 45°-0" AT 90° APART</li> <li> PROPOSED 16" DECORATIVE STEEL POLE MOUNTED ON CONCRETE FOUNDATION WITH 35W LED PEDESTRIAN TYPE LUMINAIRE MOUNTED ON 2.5' MAST ARM</li> </ul>	<ul style="list-style-type: none"> <li> PROPOSED COMPOSITE CONCRETE HANDHOLE</li> <li> COMBINATION LIGHTING CABLES IN TRAFFIC SIGNAL CONDUIT</li> <li> PROPOSED CONDUIT</li> <li> PROPOSED RGS CONDUIT SLEEVE, SIZE AS INDICATED</li> <li> EXISTING 120/240V-100A-1Ø LIGHTING CONTROLLER TO REMAIN</li> </ul>
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### CONDUIT SCHEDULE

① 1" RGS CONDUIT	④ 2/C #10 & 1/C #10 GND XLP-TYPE CABLES
② 1" SCH 40 HDPE CONDUIT	⑤ 2/C #6 & 1/C #6 GND XLP-TYPE CABLES
③ 1/4" SCH 40 HDPE CONDUIT	⑥ 4/C #6 & 1/C #6 GND XLP-TYPE CABLES

### CONDUCTOR SCHEDULE

PROJECT LIMITS 37+22



**NOTES:**

- PROPOSED LIGHTING SHALL BE INSTALLED & OPERATIONAL BEFORE TEMPORARY LIGHTING IS DISCONNECTED/REMOVED. THE ROADWAY & INTERSECTION SHALL BE LIT EVERY NIGHT FROM DUSK TO DAWN THROUGHOUT CONSTRUCTION.

FILE NAME =	USER NAME = jstrick	DESIGNED - AJD	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>US ROUTE 52 (JEFFERSON STREET) PROPOSED LIGHTING PLAN</b>	F.A.P. RTE. 607	SECTION 15-00040-00-CH	COUNTY WILL	TOTAL SHEETS 138	SHEET NO. 88		
Default	PLOT SCALE = 20'	CHECKED - AJD	REVISED -			SCALE: 20'	SHEET 2 OF 3 SHEETS	STA. 26+00	TO STA. 38+25	CONTRACT NO. 61D82		
	PLOT DATE = 2/23/2017	DATE	REVISED -			ILLINOIS FED. AID PROJECT						
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**PROJECT LIMITS**

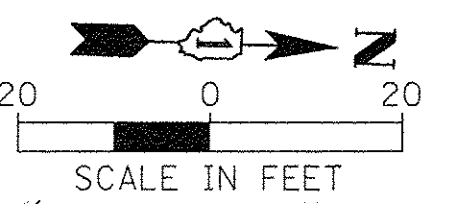
48 + 24

EX. LIGHT POLE TO REMAIN

GAS-N-WASH

EX. LIGHTING CONTROLLER TO BE REUSED (SEE DETAIL)

GAS-N-WASH



MATCH LINE STA. 54 + 50

RIVER RD

HUNTINGTON DR

EXISTING LIGHTING TO THE SOUTH TO REMAIN

PROVIDE SPARE RACEWAY, CAP WATERTIGHT & RECORD LOCATION

EX. POST TOP LIGHT POLE TO REMAIN

**LEGEND**

- PROPOSED 40' DECORATIVE STEEL POLE MOUNTED ON CONCRETE FOUNDATION WITH 219W LED ROADWAY TYPE LUMINAIRE MOUNTED ON 15' MAST ARM
- PROPOSED IDOT LED COBRAHEAD COMBINATION LUMINAIRE ON 15' ARM MOUNTED AT 45'-0"
- PROPOSED COMPOSITE CONCRETE HANDHOLE
- COMBINATION LIGHTING CABLES IN TRAFFIC SIGNAL CONDUIT
- PROPOSED CONDUIT
- PROPOSED RGS CONDUIT SLEEVE, SIZE AS INDICATED
- EXISTING 120/240V-100A-1Ø LIGHTING CONTROLLER TO REMAIN
- LIGHT POLE IDENTIFIER (P=LIGHT POLE, C=COMBINATION POLE)
- LUMINAIRE CIRCUIT IDENTIFIER
- STATION
- SET BACK FROM FACE OF CURB (FOC) TO CENTER OF POLE
- PROPOSED 16" DECORATIVE STEEL POLE MOUNTED ON CONCRETE FOUNDATION WITH 35W LED PEDESTRIAN TYPE LUMINAIRE MOUNTED ON 2.5' MAST ARM

**NOTES:**

- PROPOSED LIGHTING SHALL BE INSTALLED & OPERATIONAL BEFORE TEMPORARY LIGHTING IS DISCONNECTED/REMOVED. THE ROADWAY & INTERSECTION SHALL BE LIT EVERY NIGHT FROM DUSK TO DAWN THROUGHOUT CONSTRUCTION.

**CONDUIT SCHEDULE**

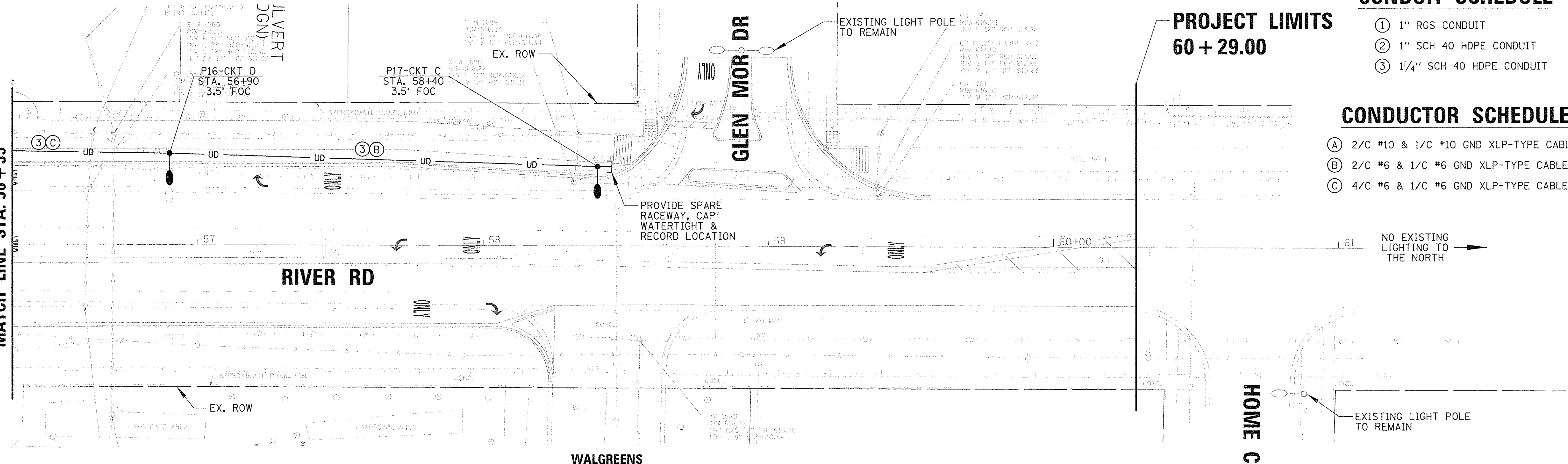
- ① 1" RGS CONDUIT
- ② 1" SCH 40 HDPE CONDUIT
- ③ 1 1/4" SCH 40 HDPE CONDUIT

**CONDUCTOR SCHEDULE**

- (A) 2/C #10 & 1/C #10 GND XLP-TYPE CABLES
- (B) 2/C #6 & 1/C #6 GND XLP-TYPE CABLES
- (C) 4/C #6 & 1/C #6 GND XLP-TYPE CABLES

**PROJECT LIMITS**  
60 + 29.00

MATCH LINE STA. 56 + 35



FILE NAME =	USER NAME = jstrick	DESIGNED - AJD	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>RIVER ROAD PROPOSED LIGHTING PLAN</b>			F.A.P. RTE. 607	SECTION 15-00040-00-CH	COUNTY WILL	TOTAL SHEETS 138	SHEET NO. 89
Default	PLOT SCALE = 20'	CHECKED - AJD	REVISED -		SCALE: 20'	SHEET 3	OF 3 SHEETS	STA. 49+00	TO STA. 60+00	CONTRACT NO. 61D82		
	PLOT DATE = 2/23/2017	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							
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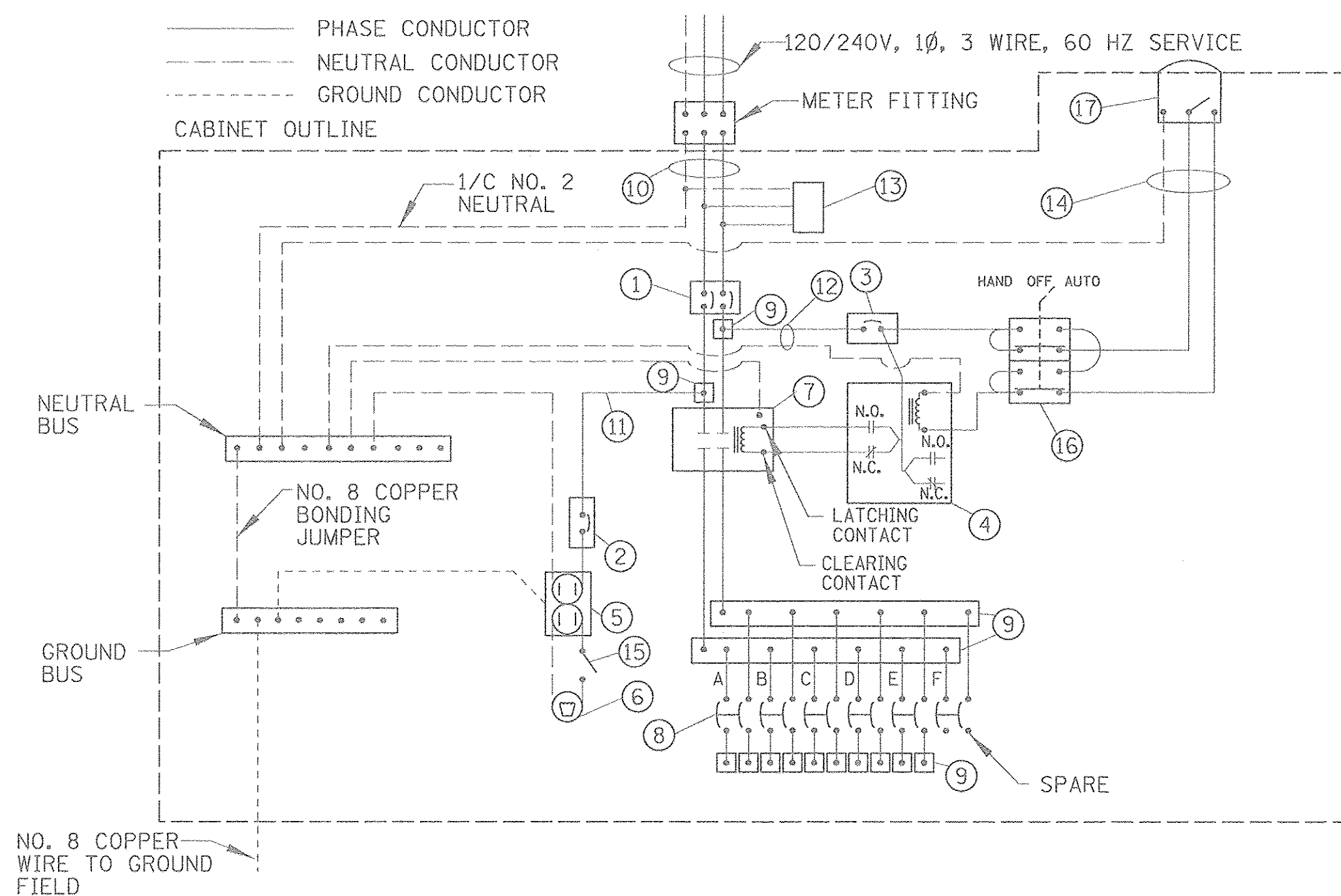


ITEM	SPECIFICATION
① MAIN CIRCUIT BREAKER	100 AMPERE, 2P, 240V SERVICE RATING, 22KAIC
② LAMPHOLDER CIRCUIT BREAKER	20 AMPERE, 1P, 120V RATING, 22KAIC
③ PHOTOELECTRIC CONTROL CIRCUIT BREAKER	15 AMPERE, 1P, 120V RATING, 22KAIC
④ AUXILIARY RELAY	120 V OPERATED DPDT 60 HZ COIL 2 NO & 2 NC CONTACTS
⑤ CABINET RECEPTACLE AND BOX	COMMERCIAL GRADE GFCI 20A/120V, MOUNTED IN A WEATHERPROOF CAST ALUMINUM SINGLE GANG BOX WITH WEATHERPROOF COVER
⑥ CABINET LIGHT AND BOX	120V WEATHERPROOF LAMPHOLDER MOUNTED IN A CAST ALUMINUM BOX & EXT. GRADE 100W LAMP
⑦ CONTACTOR	100 AMPERE, 2 POLE, 120 V COIL, MECH HELD
⑧ BRANCH LINE CIRCUIT BREAKERS	6 - 20 AMPERE, 2P, 240V RATING, 22KAIC
⑨ POWER DISTRIBUTION BLOCK	600 VOLT, INSULATED, SIZE AS REQUIRED
⑩ SERVICE CABLES	3-600V (XLP-TYPE USE) NO. 2
⑪ LAMPHOLDER WIRE	2-600V XLP NO. 12
⑫ CONTROL WIRE	2-600V XLP NO. 12
⑬ SURGE ARRESTOR	10 K AMPERE RATING
⑭ PHOTOELECTRIC CONTROL WIRE	3-600V XLP NO. 12
⑮ DOOR SWITCH	20A/120V, DOOR MOUNTED SNAP ACTION TYPE PLUNGER SWITCH
⑯ HAND-AUTO-OFF CONTROL SWITCH	20 A, 3 POS. MTD IN CAST ALUM. ENCLOSURE
⑰ PHOTOCCELL	120V, MTD. ON CABINET, DELAY TYPE, SPST-NC

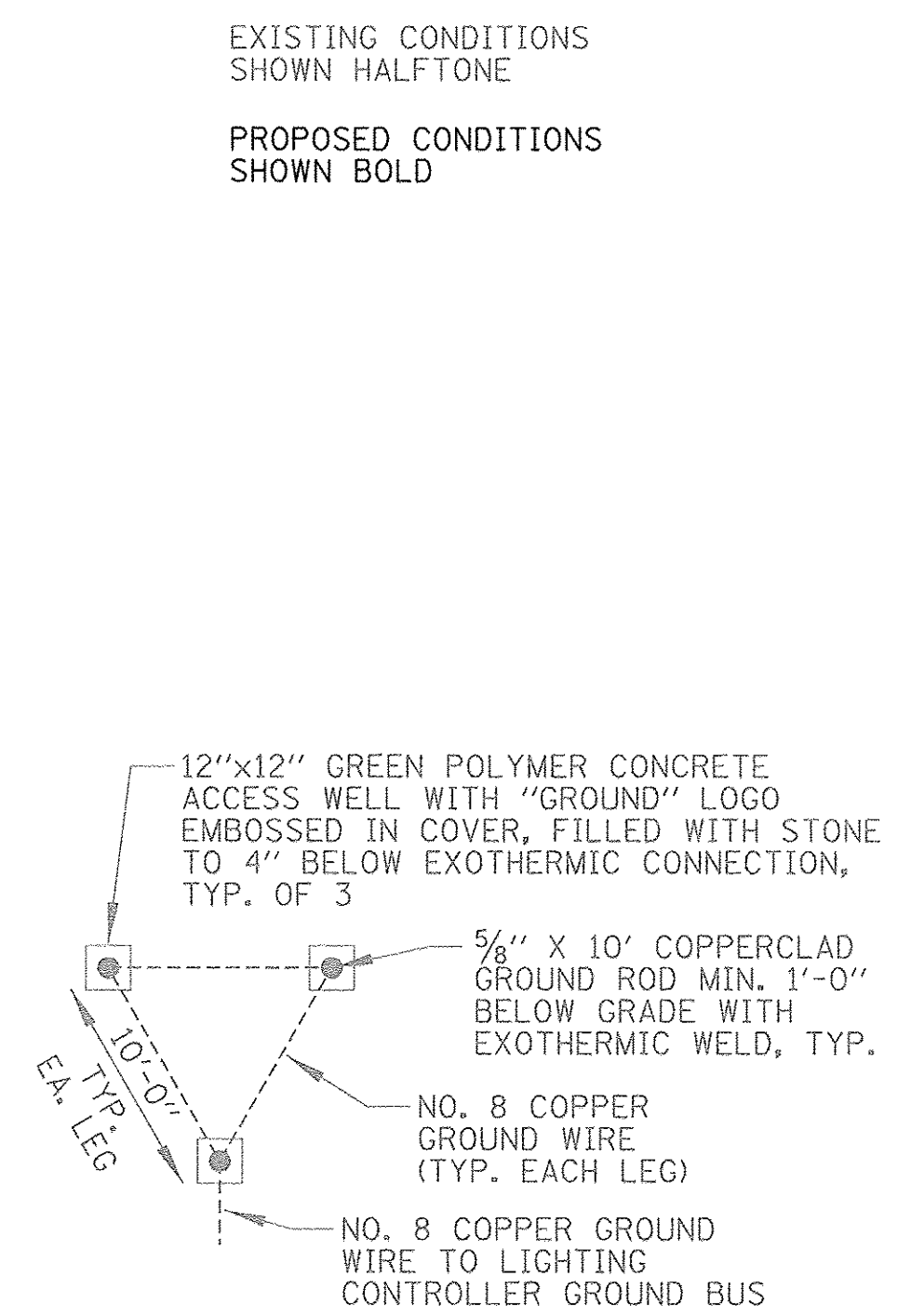
PROPOSED LIGHTING CONTROLLER CIRCUIT LOADS						
CIRCUIT ID	219W ROADWAY LUMINAIRE		35W PEDESTRIAN LUMINAIRE		TOTAL CIRCUIT LOAD	
	QTY.	LOAD/FIXT. (WATTS)	QTY.	LOAD/FIXT. (WATTS)	(WATTS)	AMPS (VOLTS)
A	6	219 W	-	35 W	1314 W	5.5 A (240V)
B	6	219 W	-	35 W	1314 W	5.5 A (240V)
C	3	219 W	-	35 W	657 W	2.7 A (240V)
D	2	219 W	-	35 W	438 W	1.8 A (240V)
E	-	219 W	3	35 W	105 W	0.4 A (240V)
TOTAL	17	N/A	3	N/A	3828 W	15.9 A (240V)

TEMPORARY LIGHTING CONTROLLER CIRCUIT LOADS				
CIRCUIT ID	400W ROADWAY LUMINAIRE		TOTAL CIRCUIT LOAD	
	QTY.	LOAD/FIXT. (WATTS)	(WATTS)	AMPS (VOLTS)
A	6	480 W	2880 W	12.0 A (240V)
B	5	480 W	2400 W	10.0 A (240V)
C	4	480 W	1920 W	8.0 A (240V)
D	3	480 W	1440 W	6.0 A (240V)
TOTAL	18	N/A	8640 W	36.0 A (240V)

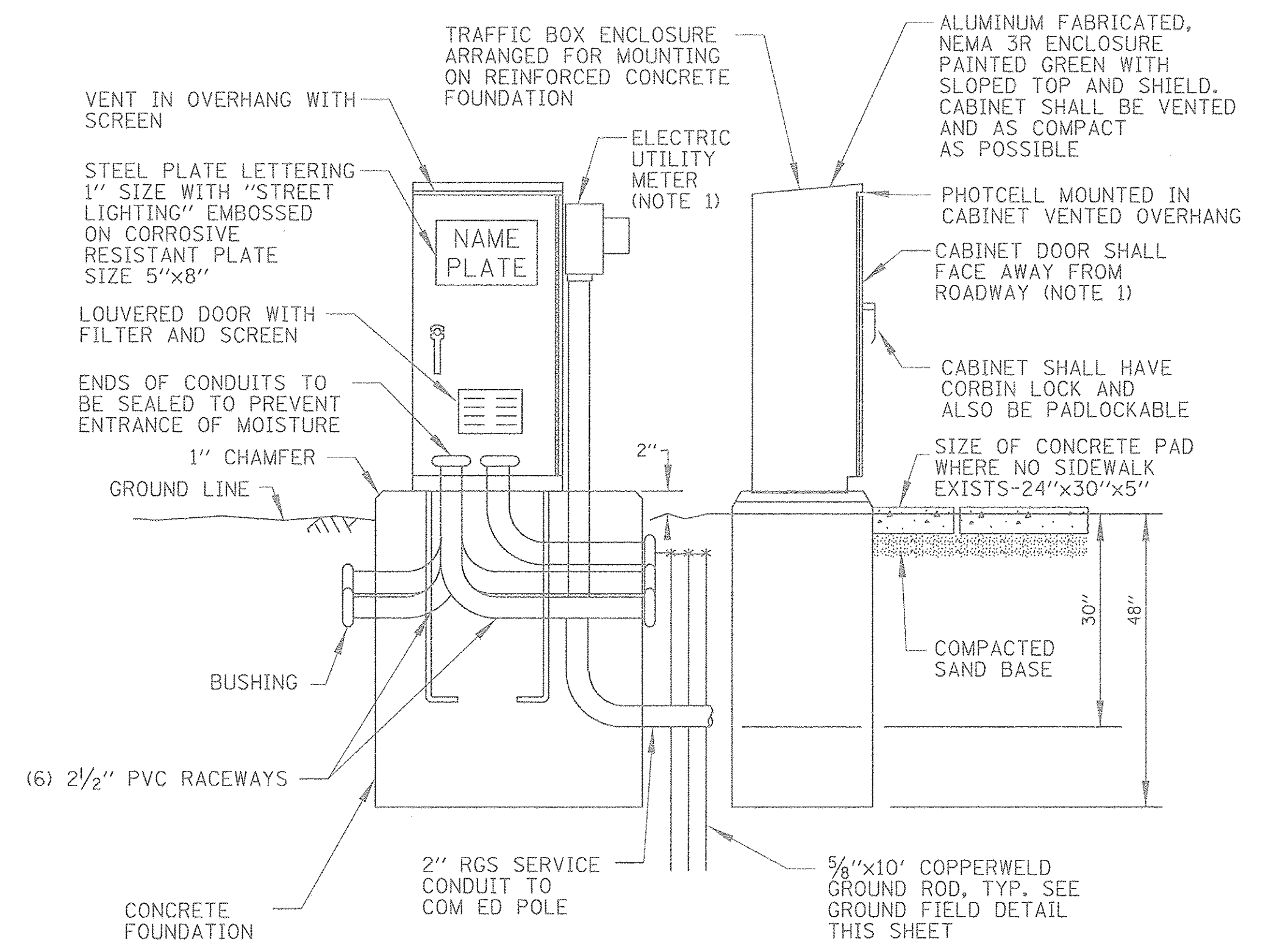
**EXISTING LIGHTING CONTROLLER COMPONENT SCHEDULE**



**EXISTING LIGHTING CONTROLLER WIRING DETAIL**  
N.T.S.

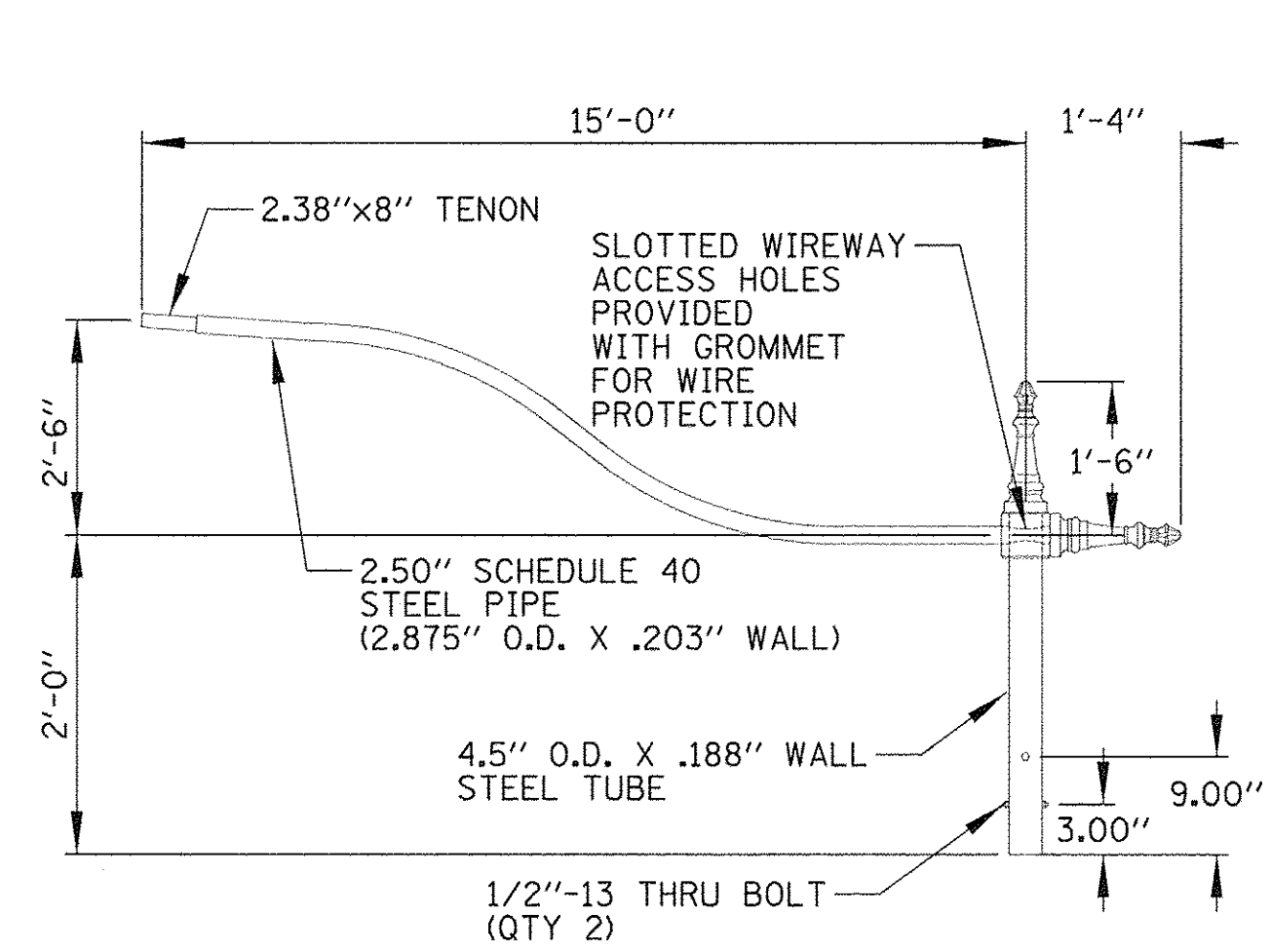
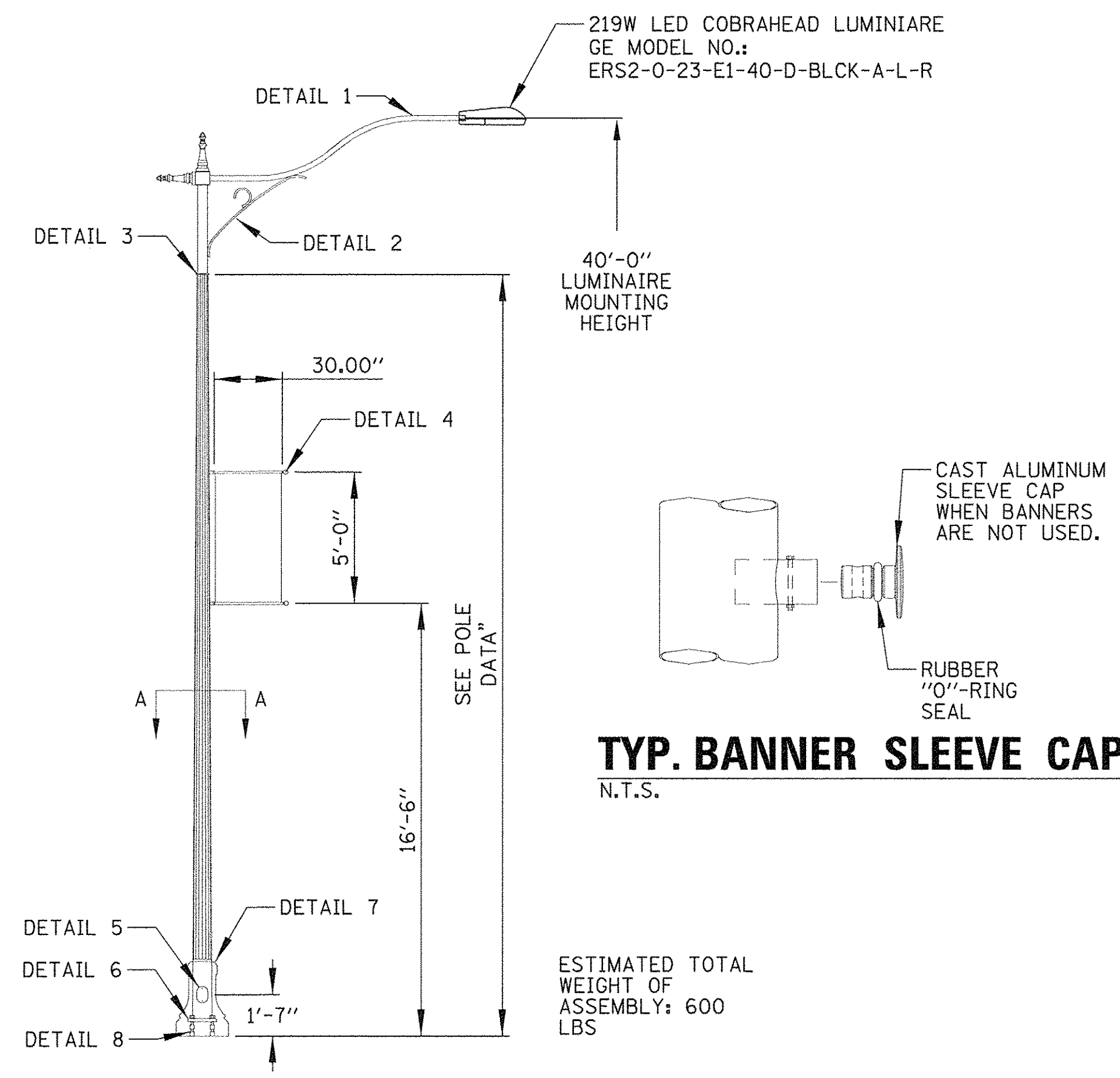


**EXISTING GROUND FIELD DETAIL (TYP.)**  
N.T.S.

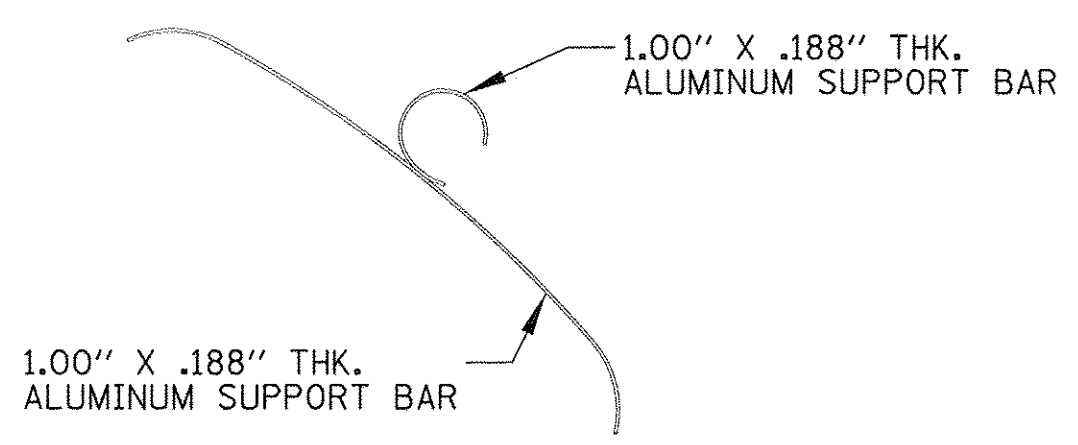


**EXISTING LIGHTING CONTROLLER CABINET AND FOUNDATION**  
N.T.S.

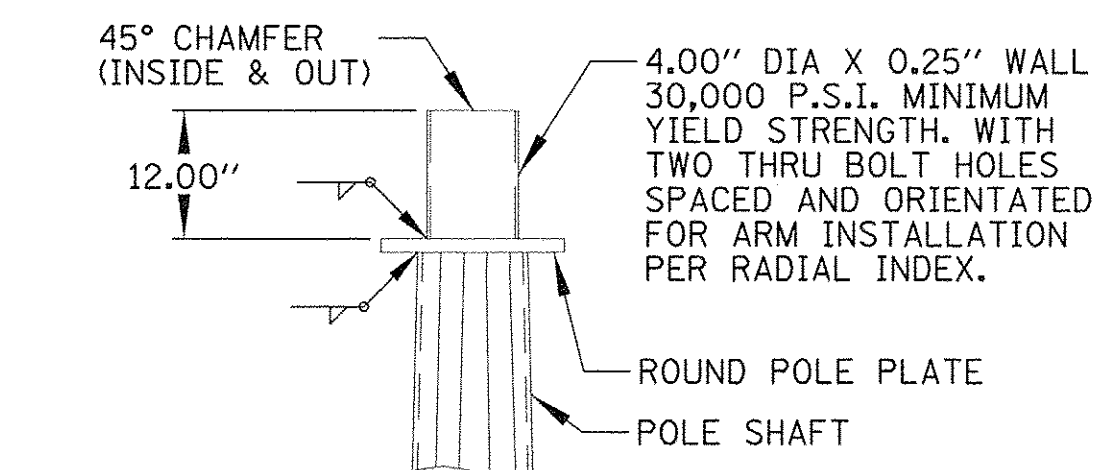




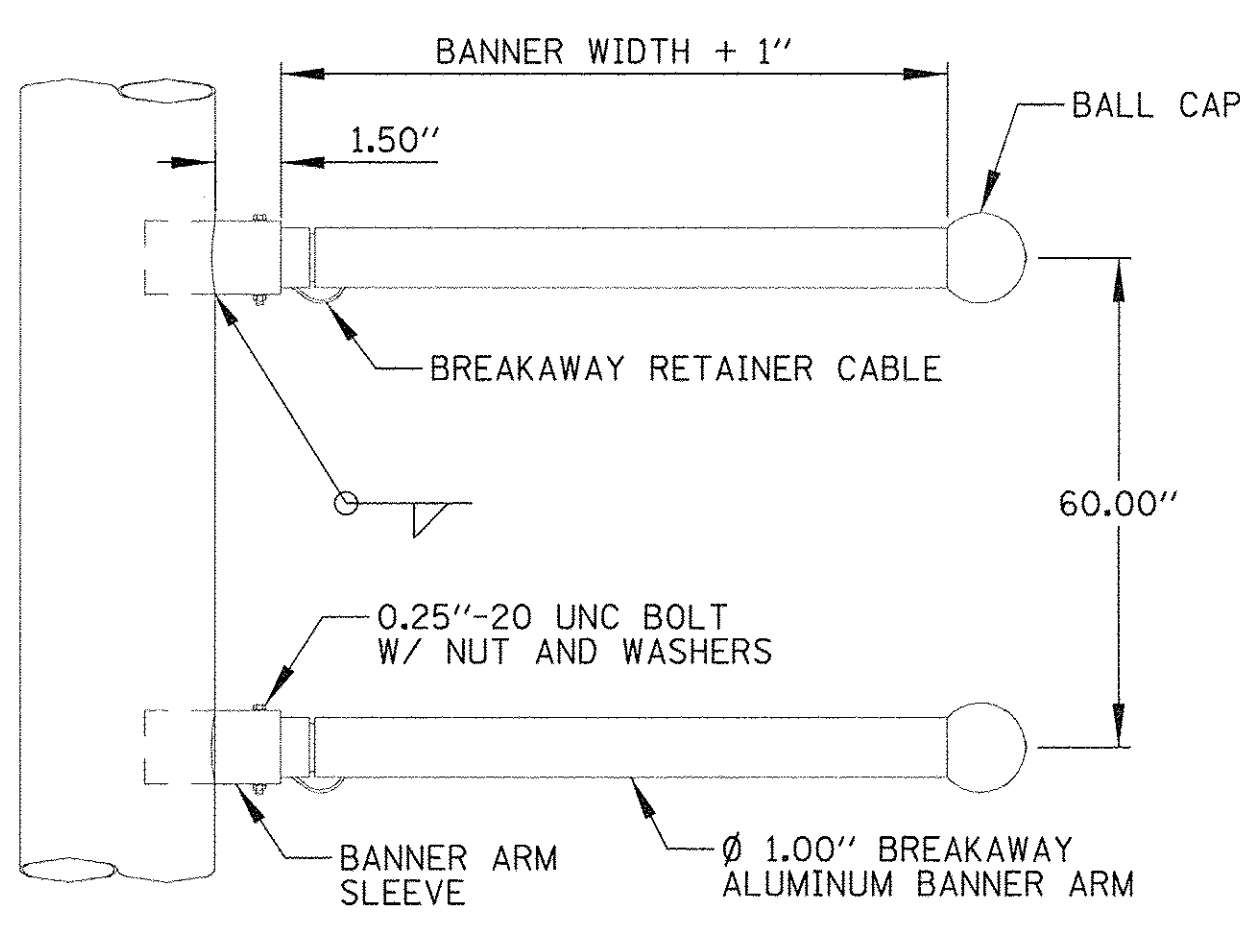
**DETAIL 1: LUMINAIRE ARM**  
N.T.S.



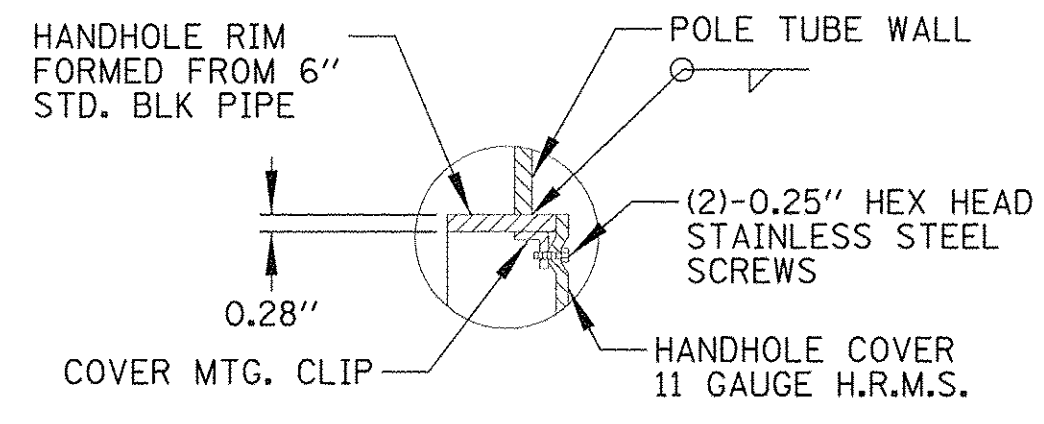
**DETAIL 2: SCROLL ARM**  
N.T.S.



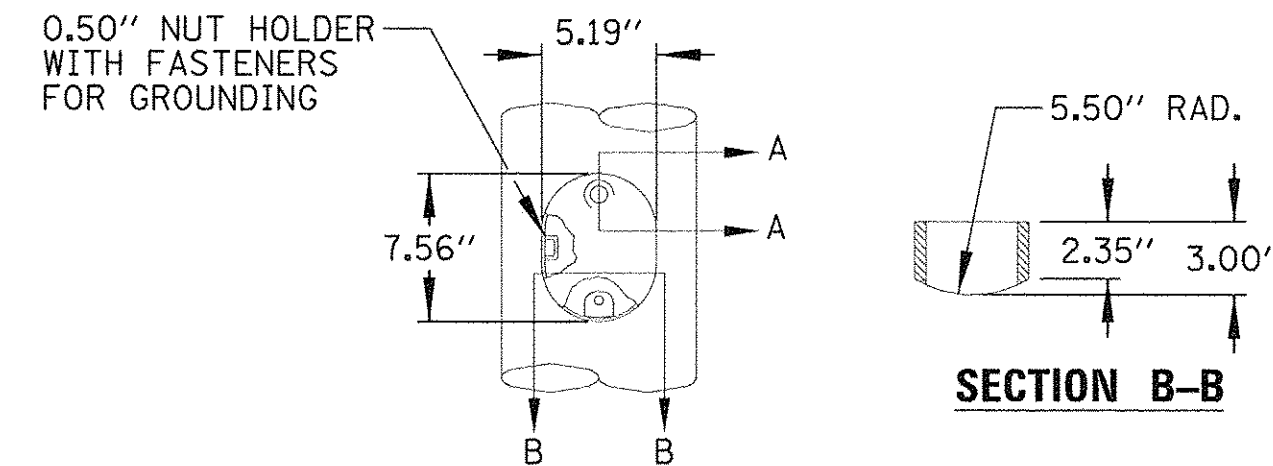
**DETAIL 3: POLE TOP**  
N.T.S.



**DETAIL 4: BREAKAWAY BANNER ARM ATTACHMENT**  
N.T.S.

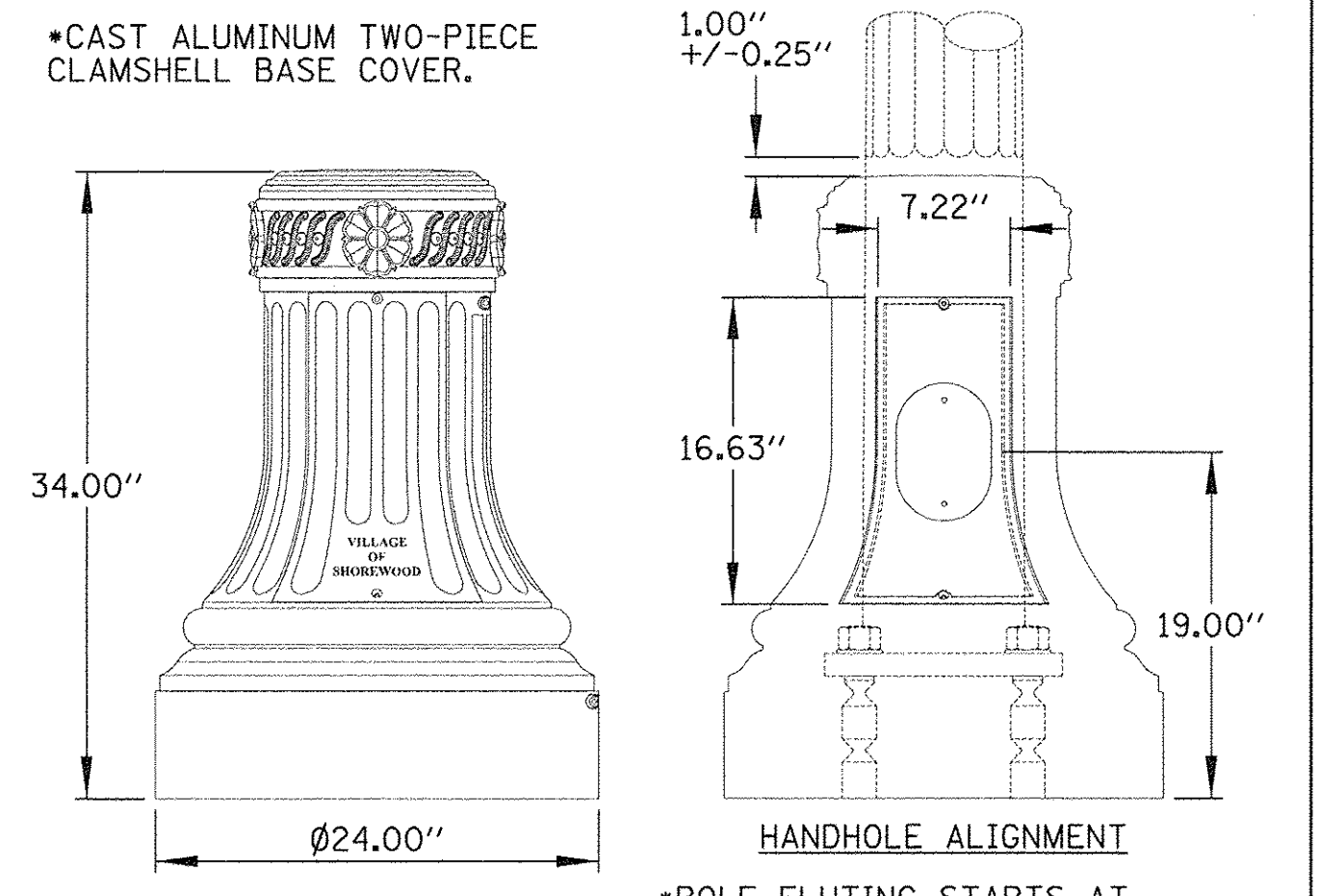


**SECTION A-A**

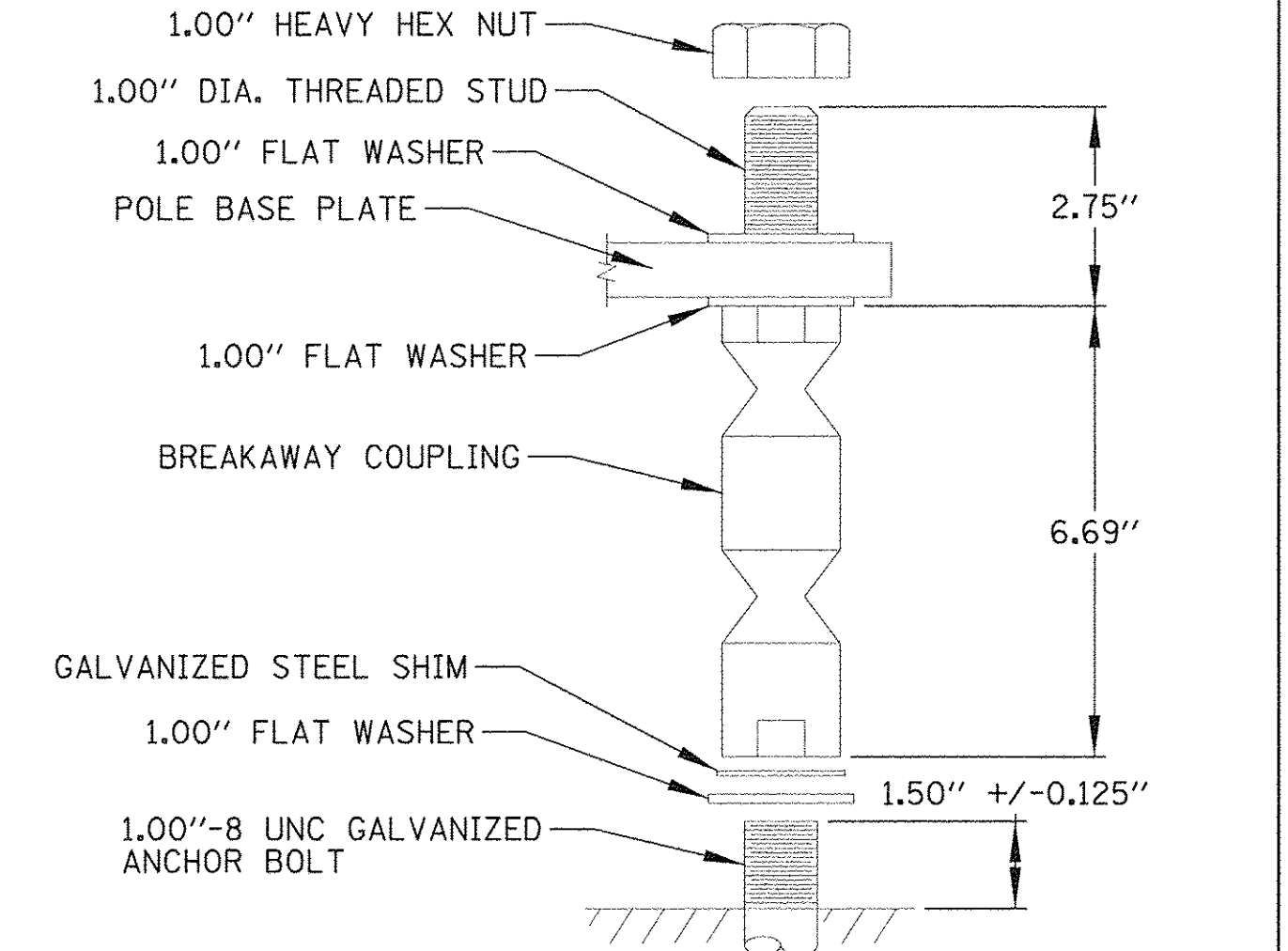


**SECTION B-B**

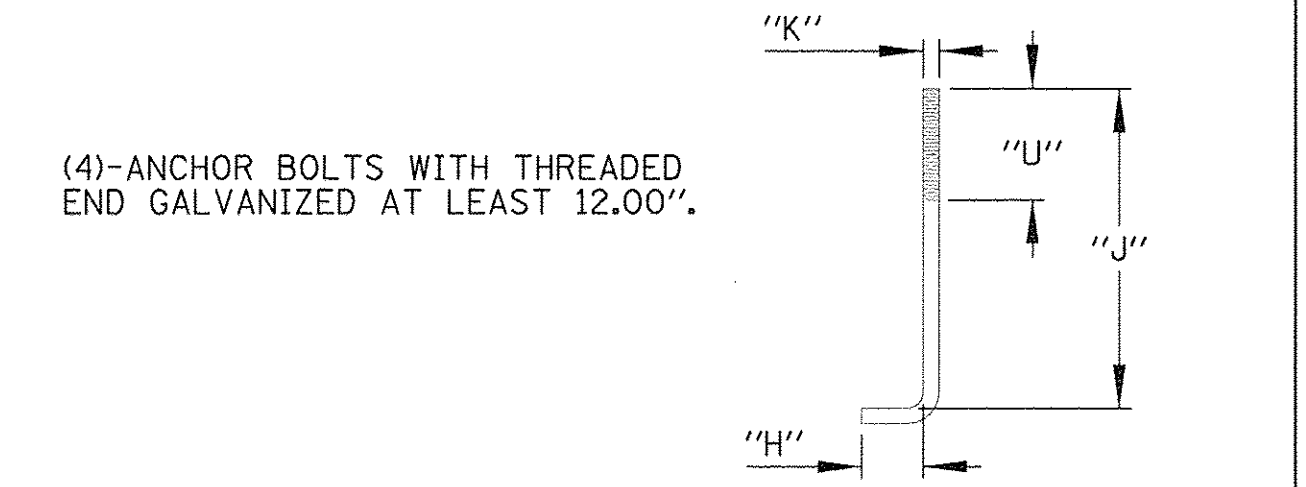
**DETAIL 5: SEMI-FLUSH HANDHOLE**  
N.T.S.



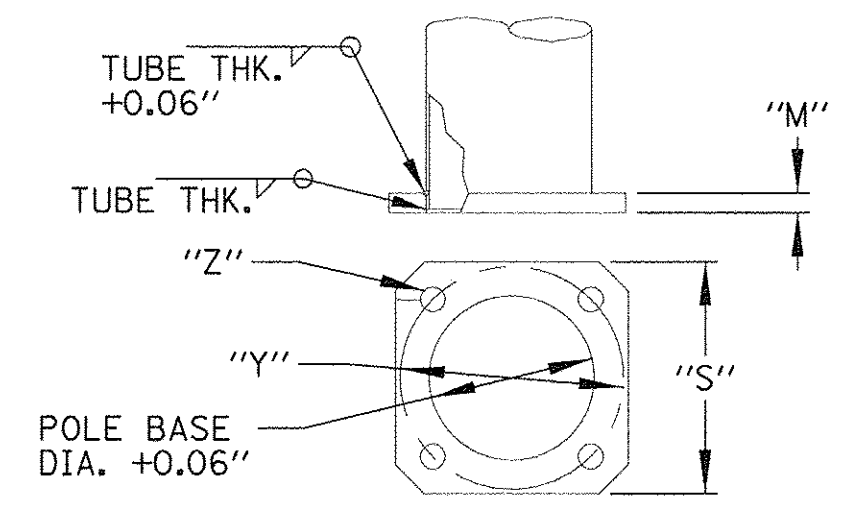
**DETAIL 7: HN24AC DECORATIVE BASE**  
N.T.S.



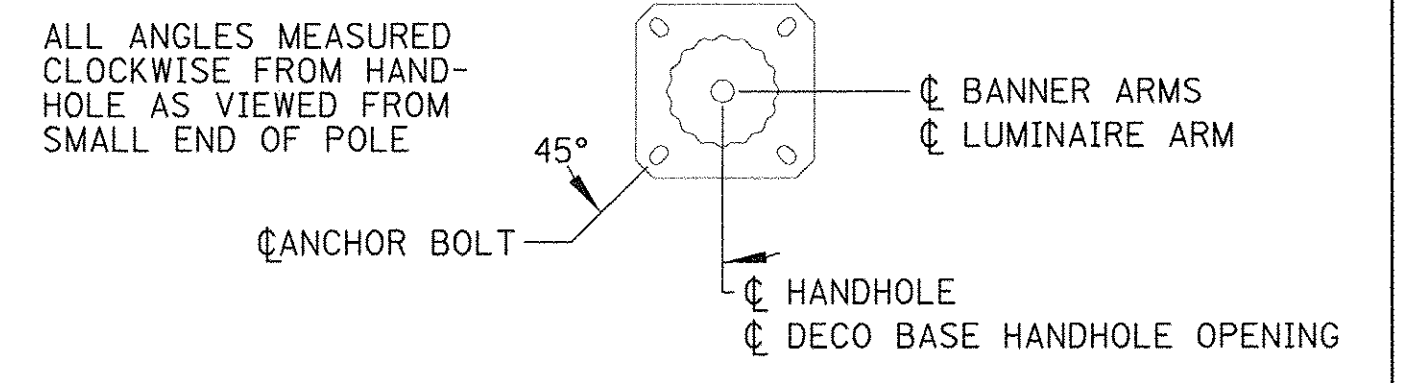
**DETAIL 8: TRANSPONOR NO. 4100 BREAKAWAY COUPLING**  
N.T.S.



**DETAIL 9: ANCHOR BOLT**  
N.T.S.



**DETAIL 6: POLE BASE**  
N.T.S.



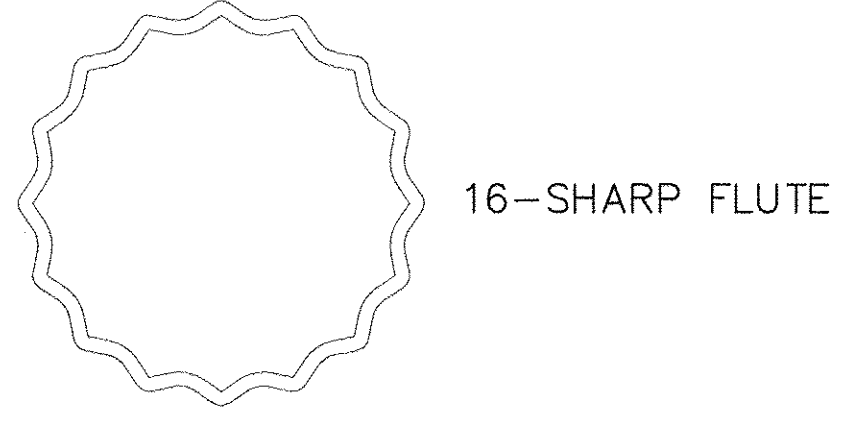
**RADIAL INDEX**  
N.T.S.

MATERIAL DATA			
COMPONENT	DESIGNATION	MIN YEILD (KSI)	FINISH DATA
TAPERED TUBES	A595 GR.A OR A572	55	SEE NOTE BELOW
BASE PLATE	A36	36	
ANCHOR BOLTS	F1554GR.105	105	
GALVANIZING - HARDWARE	A153		

**VIBRATION DISCLAIMER**

ALTHOUGH RARE, VIBRATIONS SEVERE ENOUGH TO CAUSE DAMAGE CAN OCCASIONALLY OCCUR IN STRUCTURES OF ALL TYPES. BECAUSE THEY ARE INFLUENCED BY MANY INTERACTING VARIABLES, VIBRATIONS ARE GENERALLY UNPREDICTABLE. THE USER'S MAINTENANCE PROGRAM SHOULD INCLUDE OBSERVATION FOR EXCESSIVE VIBRATION AND EXAMINATION FOR ANY STRUCTURAL DAMAGE OR BOLT LOOSENING. THE VALMONT WARRANTY SPECIFICALLY EXCLUDES FATIGUE FAILURE OR SIMILAR PHENOMENA RESULTING FROM INDUCED VIBRATION, HARMONIC OSCILLATION OR RESONANCE ASSOCIATED WITH MOVEMENT OF AIR CURRENTS AROUND THE PRODUCT.

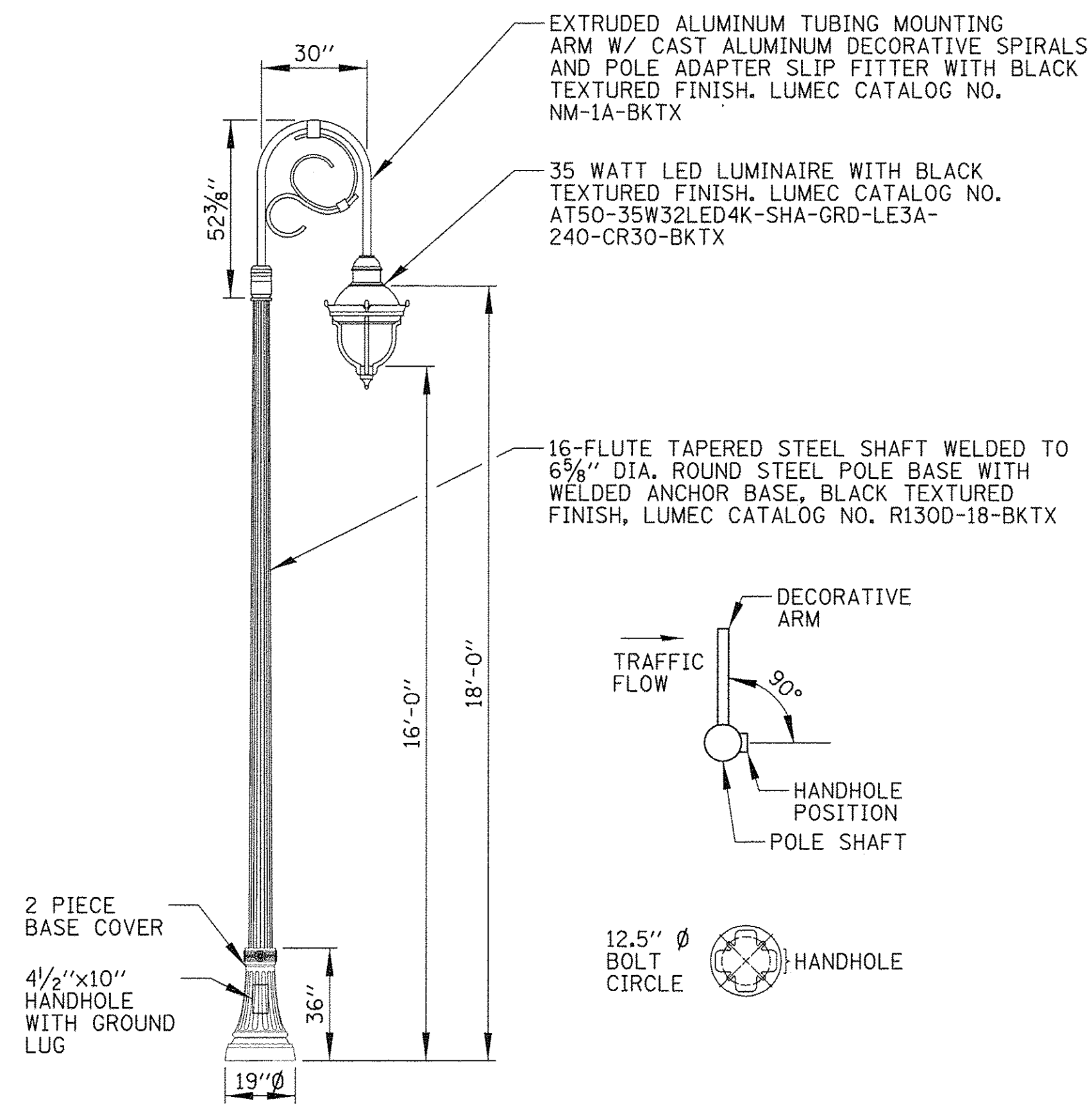
POLE DATA												
ITEM	POLE TUBE			POLE BASE				ANCHOR BOLT				
	BASE DIA. (IN)	TOP DIA. (IN)	LENGTH (FT)	GAUGE OR THICK (IN)	SQUARE "S" (IN)	BOLT CIRCLE "Y" (IN)	THK. "M" (IN)	HOLE / SLOT "Z" (IN)	DIA. "K" (IN)	LENGTH "J" (IN)	HOOK "H" (IN)	THREAD LENGTH "U" (IN)
1	9.00	4.03	35.50	7	13.00	13.00	1.25	1.13 X 1.69	1.00	36.00	4.00	6.00



**SECTION A-A**  
N.T.S.

**NOTES:**

- PAID FOR UNDER "LIGHTING UNIT COMPLETE, SPECIAL" (SEE SPECIAL PROVISION). THIS IS A PROPRIETARY ITEM.
- DECORATIVE POLE ASSEMBLY SHALL BE VALMONT SHWD-900E355165-343450.
- SYSTEM INCLUSIVE OF POLE, COUPLINGS, AND VALMONT HUNTINGTON DECORATIVE CLAM-SHELL BASE SHWD-CSTMPMN24AC-343450 SHALL CARRY FHWA BREAKAWAY RATING AND BE LISTED AS SUCH.
- 16 SHARP FLUTED STEEL POLE SHALL BE 7 GAUGE AND FLUTED THROUGH A CONTINUOUS COLD WORKING PROCESS TO ENSURE EVENLY SPACED AND CONTINUOUS FLUTING ALONG THE FULL LENGTH OF FLUTED PORTION, FLUTES SHOULD BE DESIGNED TO STOP ABOVE THE CLAM-SHELL BASE TO FACILITATE CLEAN MATE UP OF CLAM-SHELL TO POLE SHAFT.
- BANNER ARMS SHALL BE BREAKAWAY AND ATTACHED VIA COUPLING CONNECTION. CAPS SHALL BE PROVIDED PER POLE TO COVER COUPLINGS IF NOT IN USE.
- LUMINAIRE ARM SHALL BE STEEL VALMONT SHWD-CSTMPMNT15-343450 AND HAVING ALUMINUM FINIALS.
- FINISH SHALL INCLUDE HOT DIP GALVANIZING TO ASTM 123 ON STEEL COMPONENTS, FOLLOWED BY ASTM D6386 SURFACE PREPARATION, PRIME COAT OF VALMONT PET HIGH PERFORMANCE TGIC POWDER TO A MINIMUM DFT OF 3.0 MILS, WITH THE BOTTOM 8' OF THE POLE SHAFT HAVING A MINIMUM DFT OF 5.0 MILS. THE PRIME COAT MUST BE ENERGY ABSORPTIVE, CHIP RESISTANT AND CAPABLE OF ACHIEVING A RATING OF 10A UNDER TESTING PER ASTM PROCEDURE D3170 WHICH IS BASED ON THE SAE J400 TEST. THE PRIMED SURFACE IS COATED WITH TGIC SUPER DURABLE POWDER TOP COAT FORMULATED TO MEET AAMA 2604 5 YEAR COLOR AND GLOSS RETENTION STANDARD. THIS TOP COAT IS TO BE APPLIED TO A DFT OF 3.0 MILS. CONTRACTOR IS TO FOLLOW MANUFACTURER'S GUIDELINES FOR PROPER FINISH TOUCH UP TO REPAIR ALL DAMAGE INCURRED DURING INSTALLATION. TOUCH UP TO BE CONDUCTED BY PERSONAL TRAINED BY MANUFACTURER. ENGINEER SHALL INSPECT PRIOR TO SIGN OFF ON INSTALLATION.

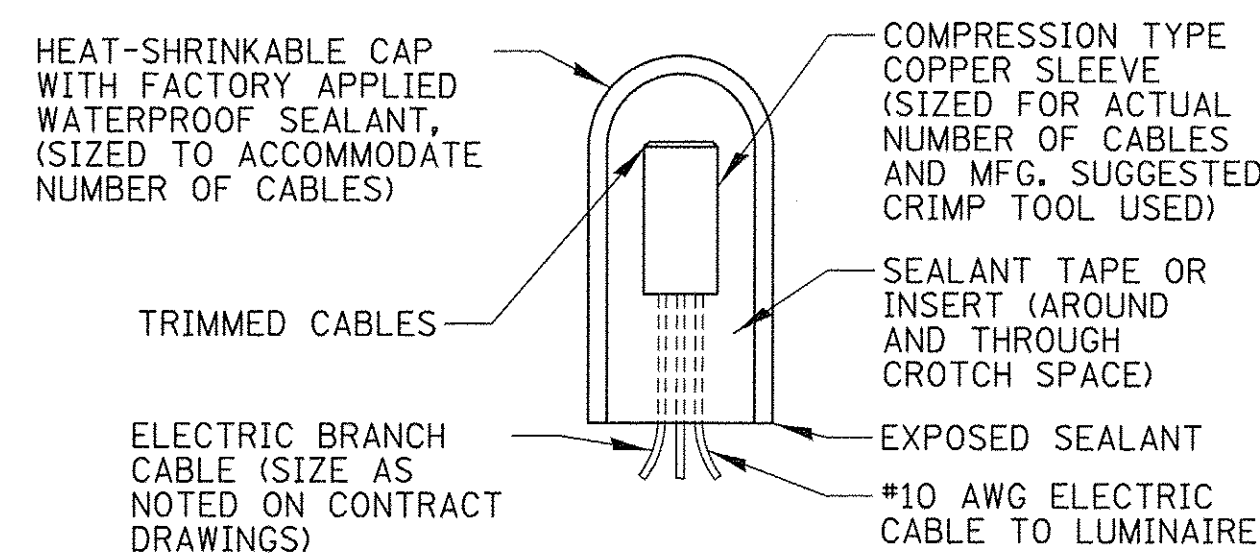


**NOTES:**

1. PAID FOR UNDER "ORNAMENTAL LIGHT UNIT, COMPLETE" (SEE SPECIAL PROVISION). THIS IS A PROPRIETARY ITEM.

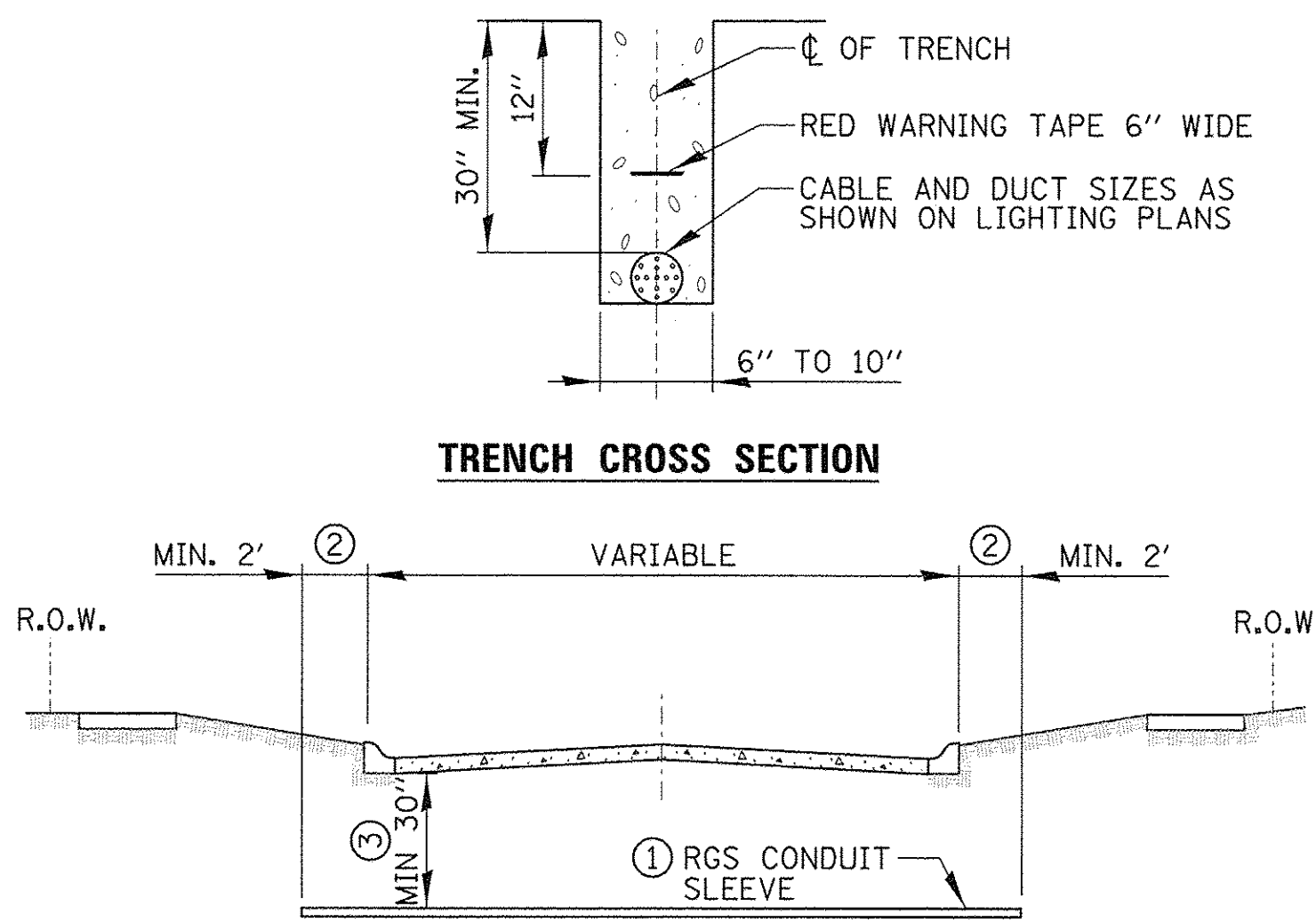
**PEDESTRIAN LIGHT POLE**

N.T.S.



**SPLICING ELECTRIC CABLE**

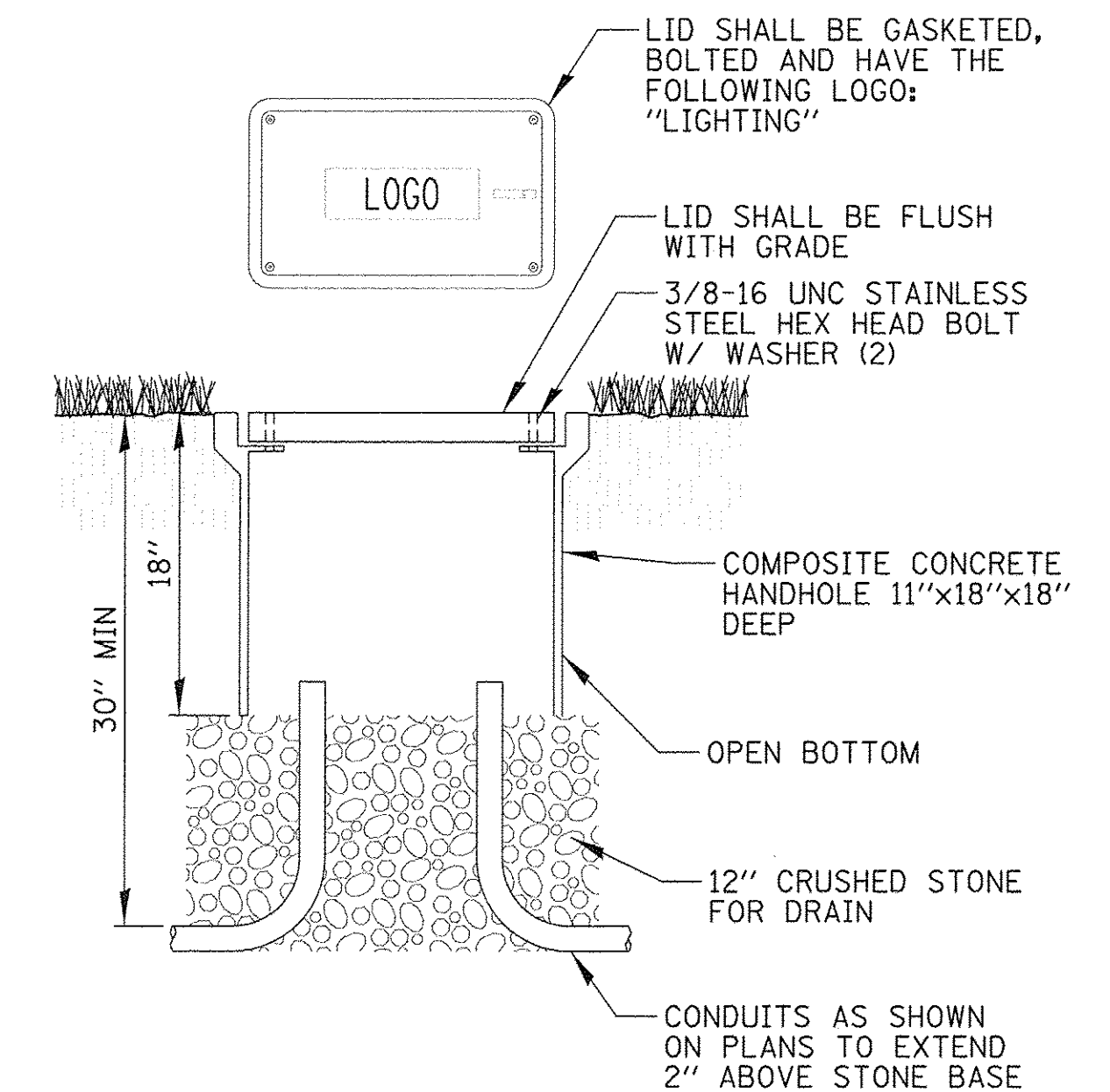
N.T.S.



- ① SLEEVE SHALL BE HEAVY WALL RIGID GALVANIZED STEEL (RGS) CONDUIT.
- ② SLEEVE SHALL EXTEND A MINIMUM OF 2 FT. BEYOND BACK OF CURB.
- ③ SLEEVE SHALL BE A MINIMUM OF 30" BELOW ROADWAY OR CURB BOTTOM.

**ELECTRIC CONDUIT INSTALLATION**

N.T.S.

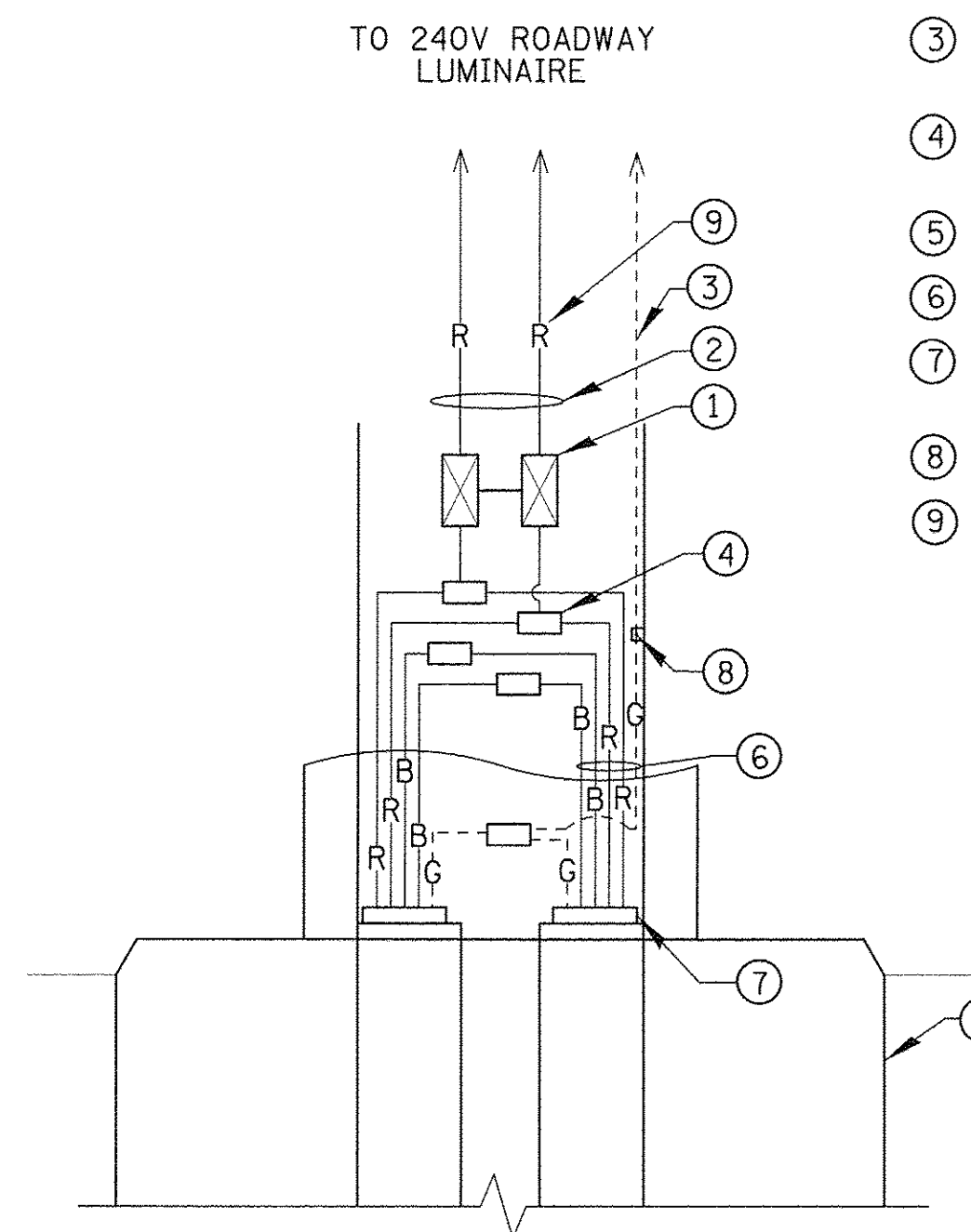
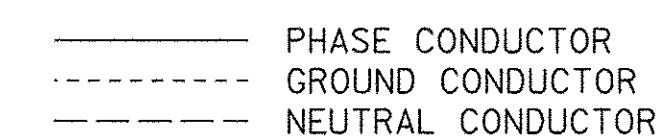


**NOTES:**

1. NO SPLICING ALLOWED IN HANDHOLES.
2. HANDHOLE AND LID SHALL BE GREY.
3. BOX & LID SHALL MEET/EXCEED ANSI TIER 15 LOADING REQUIREMENTS, AND BE TESTED IN ACCORDANCE WITH THE LATEST EDITION OF THE ANSI/SCTE 77 "SPECIFICATION FOR UNDERGROUND ENCLOSURE INTEGRITY", AND THE PROVISIONS OF PARAGRAPHS 5.2.3 AND 5.2.4 OF WESTERN UNDERGROUND COMMITTEE GUIDE 3.6.

**COMPOSITE CONCRETE HANDHOLE**

N.T.S.



- ① 3A TIME-DELAY TYPE FUSE INSIDE A 2-POLE BREAKAWAY WATERPROOF FUSE HOLDER & INSULATING BOOTS
- ② NO. 10 POLE WIRES TO LUMINAIRE COLOR TO MATCH BRANCH WIRING
- ③ NO. 10 GROUND WIRE CONNECTED TO GROUND LUG IN LUMINAIRE
- ④ MULTIPLE COMPRESSION FITTINGS (SPLICE), TYP.
- ⑤ CONCRETE FOUNDATION
- ⑥ WIRES AS SHOWN ON PLANS
- ⑦ PROPOSED LIGHTING CONDUIT PULLED THROUGH PVC RACEWAY
- ⑧ POLE GROUND LUG
- ⑨ WIRE COLOR  
R=RED  
B=BLACK  
G=GREEN

**HANDHOLE WIRING DIAGRAM**

N.T.S.

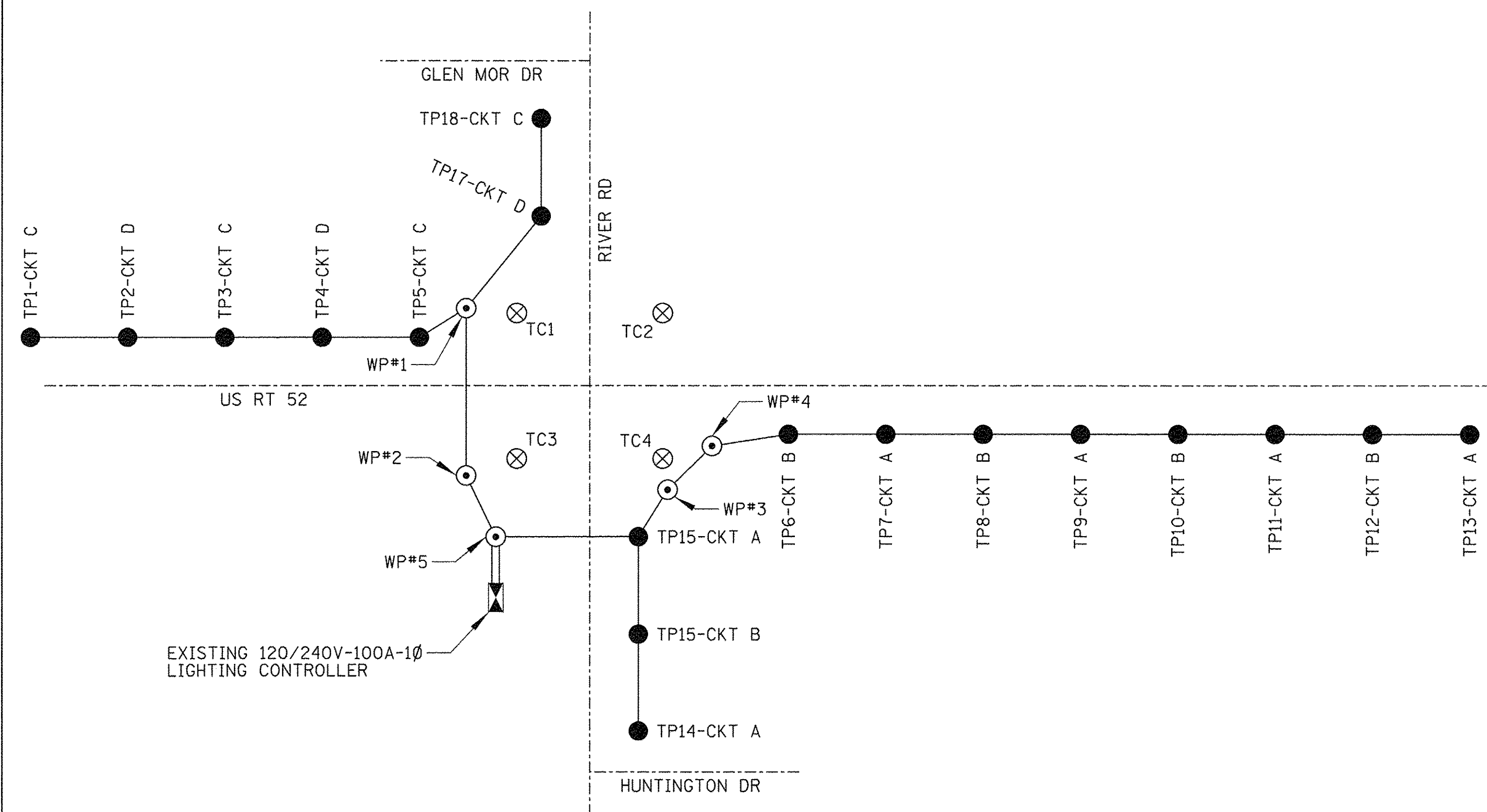
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Default	PLOT SCALE = 1'	CHECKED - AJD	REVISED -			SCALE: N.T.S.	SHEET 3 OF 9 SHEETS	STA. N/A TO STA. N/A	CONTRACT NO. 61D82			
	PLOT DATE = 2/23/2017	DATE -	REVISED -			ILLINOIS FED. AID PROJECT						
N:\Shorewood\070001\070001C\2016\C16-02\Mech\LD1_070001.C1602_03.sht												





**LEGEND**

- TEMPORARY ROADWAY LIGHT POLE
- ⊗ TEMPORARY COMBINATION LIGHT POLE
- ⊙ TEMPORARY WOOD POLE
- TEMPORARY ELECTRIC LINE
- ⊠ EXISTING CONTROLLER
- ↙ LIGHT POLE NUMBER (TP=TEMPORARY LIGHT POLE, TC=TEMPORARY COMBINATION LIGHT POLE)
- ↖ P1-CKT A LIGHTING CIRCUIT IDENTIFIER
- - - ROADWAY

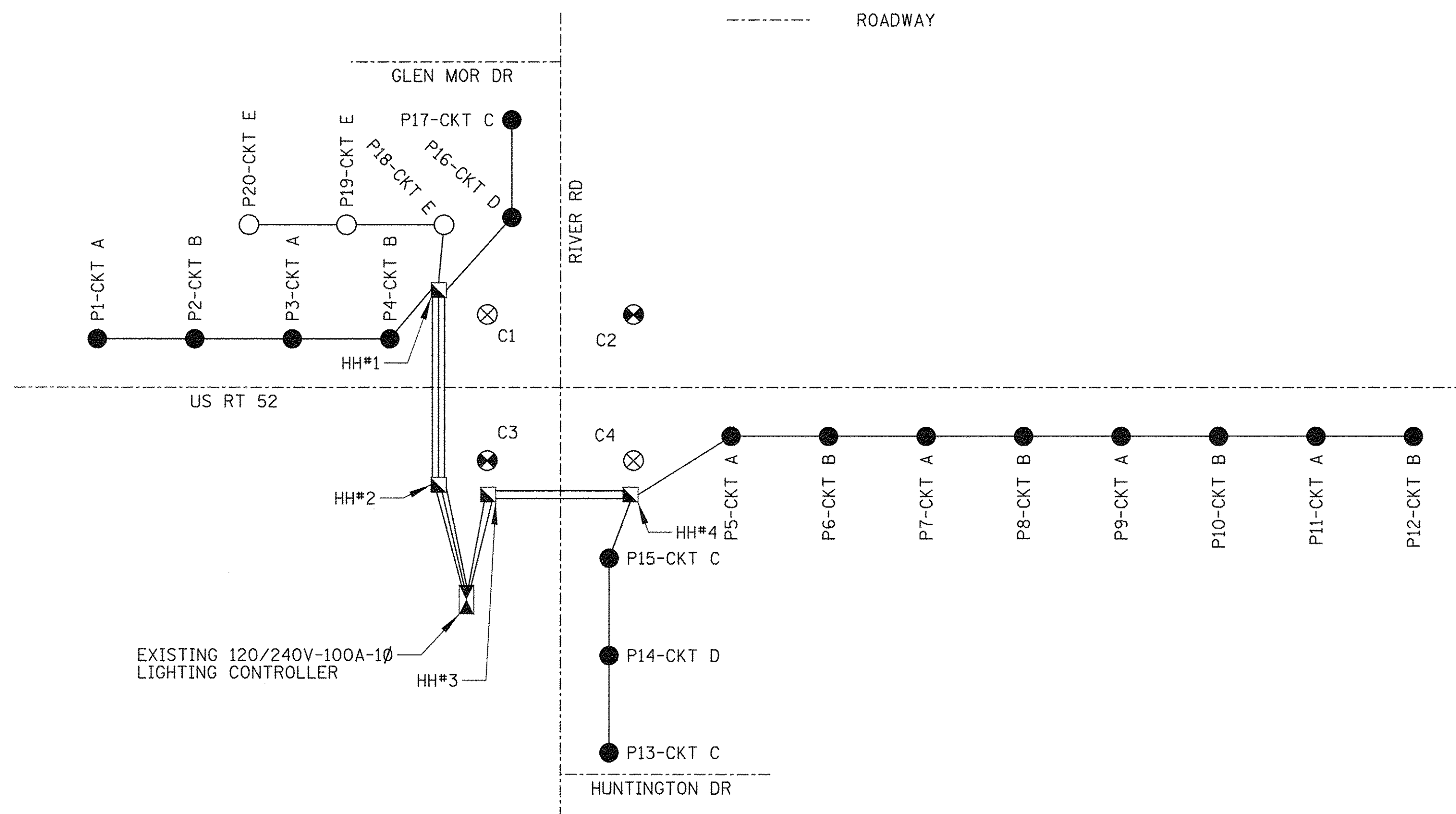


**TEMPORARY LIGHTING  
ONE LINE DIAGRAM**  
N.T.S.



**LEGEND**

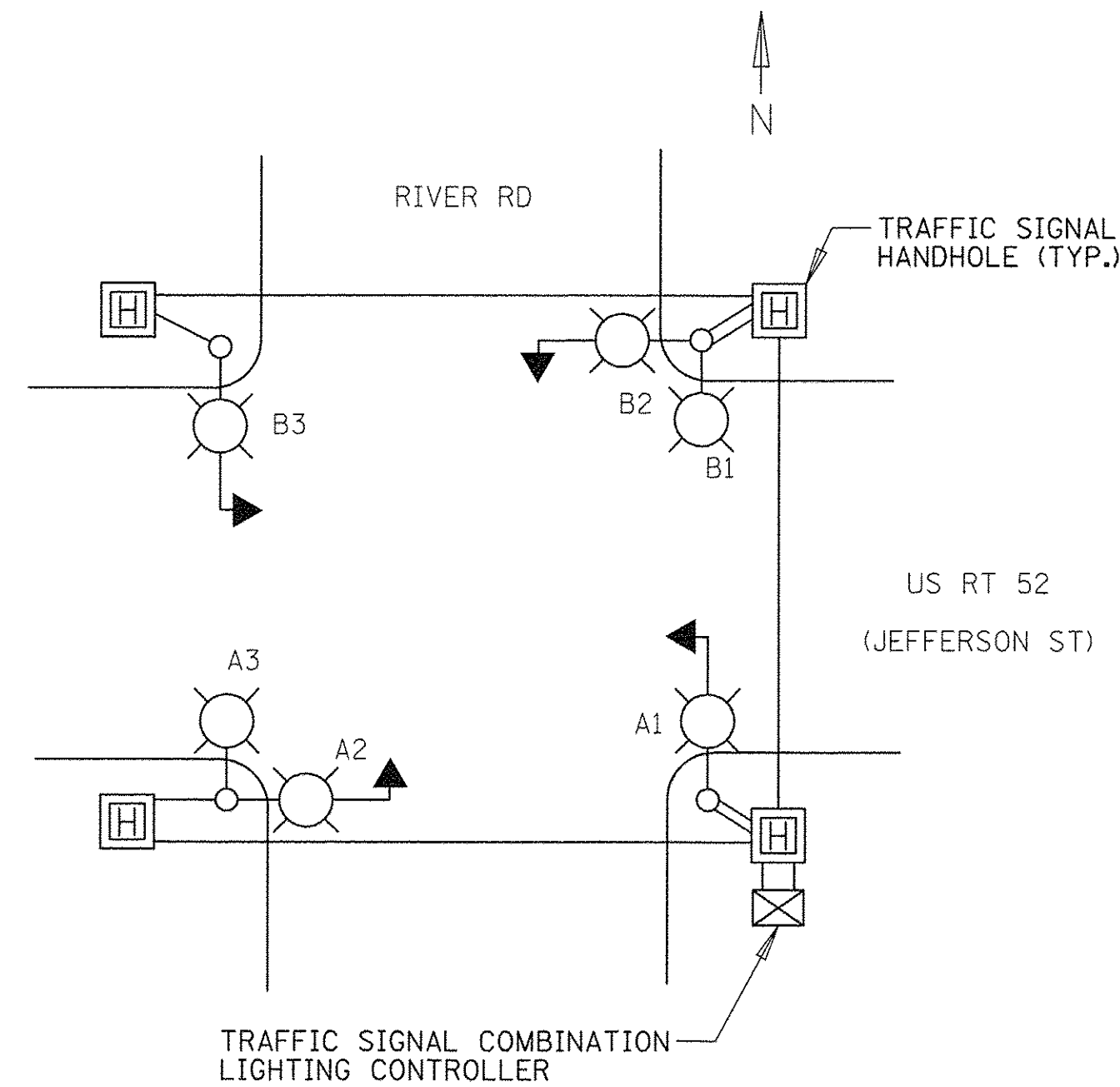
- ROADWAY LIGHT POLE
- PEDESTRIAN LIGHT POLE
- ⊗ COMBINATION LIGHT POLE (SINGLE LUMINAIRE)
- ⊙ COMBINATION LIGHT POLE (2 LUMINAIRES AT 90°)
- ELECTRIC LINE
- ⊠ EXISTING CONTROLLER
- ⊡ PROPOSED HANDHOLE
- ↙ LIGHT POLE NUMBER (P=LIGHT POLE, C=COMBINATION LIGHT POLE)
- ↖ P1-CKT A LIGHTING CIRCUIT IDENTIFIER
- - - ROADWAY



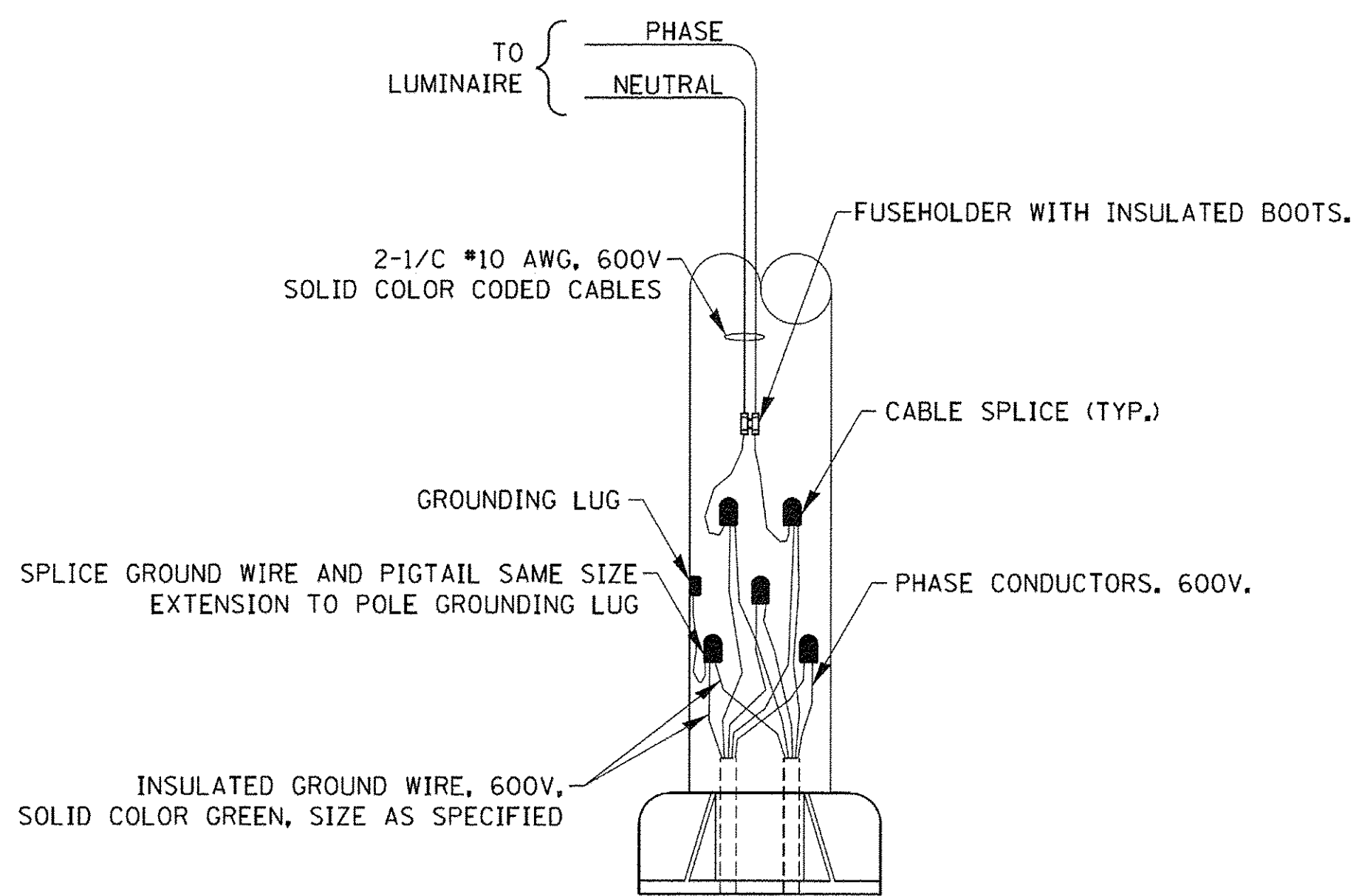
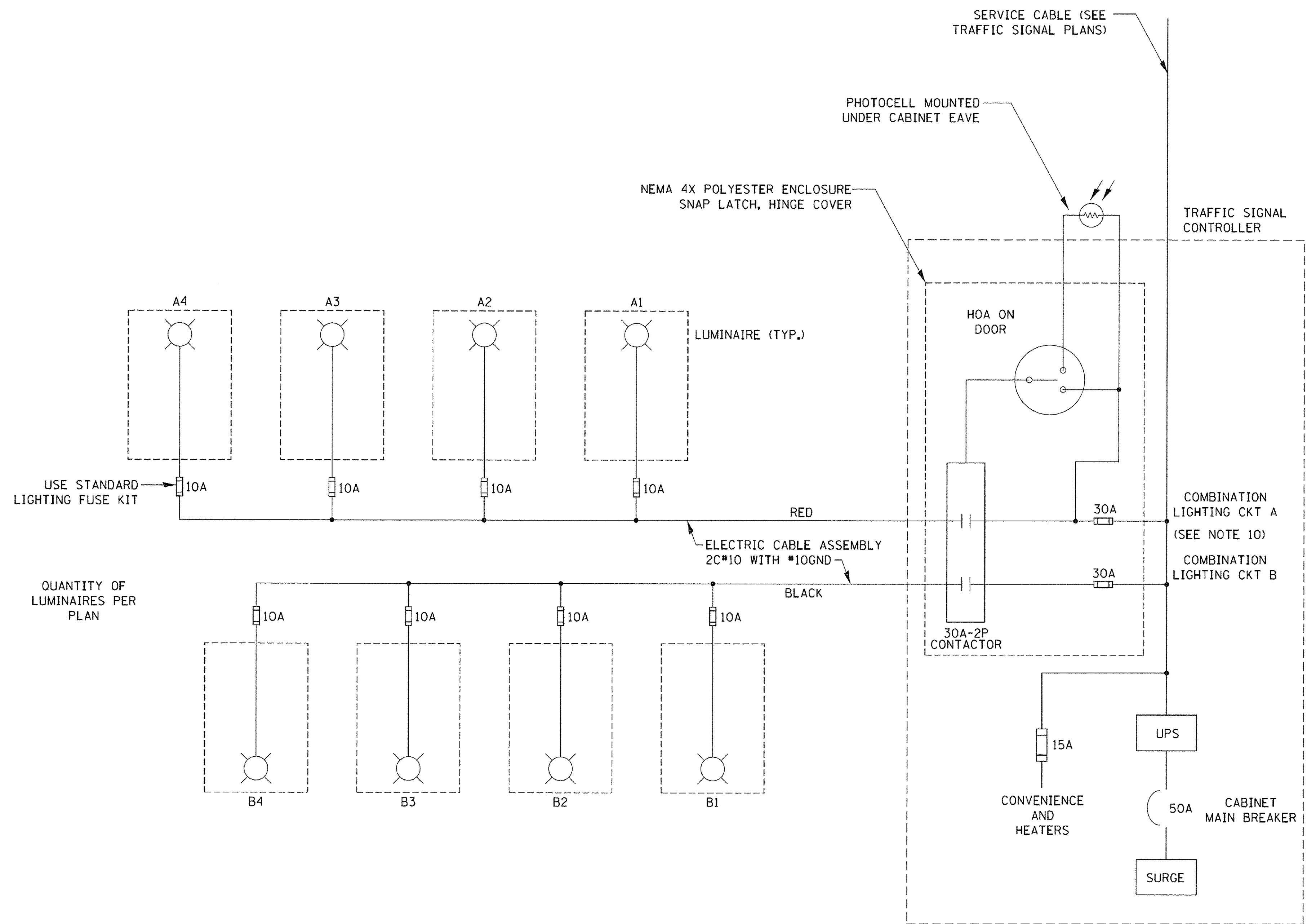
**PROPOSED LIGHTING  
ONE LINE DIAGRAM**  
N.T.S.

FILE NAME =	USER NAME = jstrick	DESIGNED - AJD	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>US ROUTE 52 RIVER ROAD LIGHTING DETAILS - 4</b>				F.A.P. RTE. 607	SECTION 15-00040-00-CH	COUNTY WILL	TOTAL SHEETS 138	SHEET NO. 93
Default	PLOT SCALE = 1'	CHECKED - AJD	REVISED -		SCALE: N.T.S.	SHEET 4	OF 9 SHEETS	STA. N/A	TO STA. N/A	CONTRACT NO. 61D82			
	PLOT DATE = 2/23/2017	DATE -	REVISED -		ILLINOIS FED. AID PROJECT								
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**TYPICAL LIGHTING CIRCUIT DESIGNATIONS**  
(NOT TO SCALE)



**COMBINATION POLE WIRING DETAIL**  
(NOT TO SCALE)

**IDOT STANDARD BE-240  
(REVISED 10-13-2015)  
MODIFIED FOR THIS PROJECT**

**NOTES:**

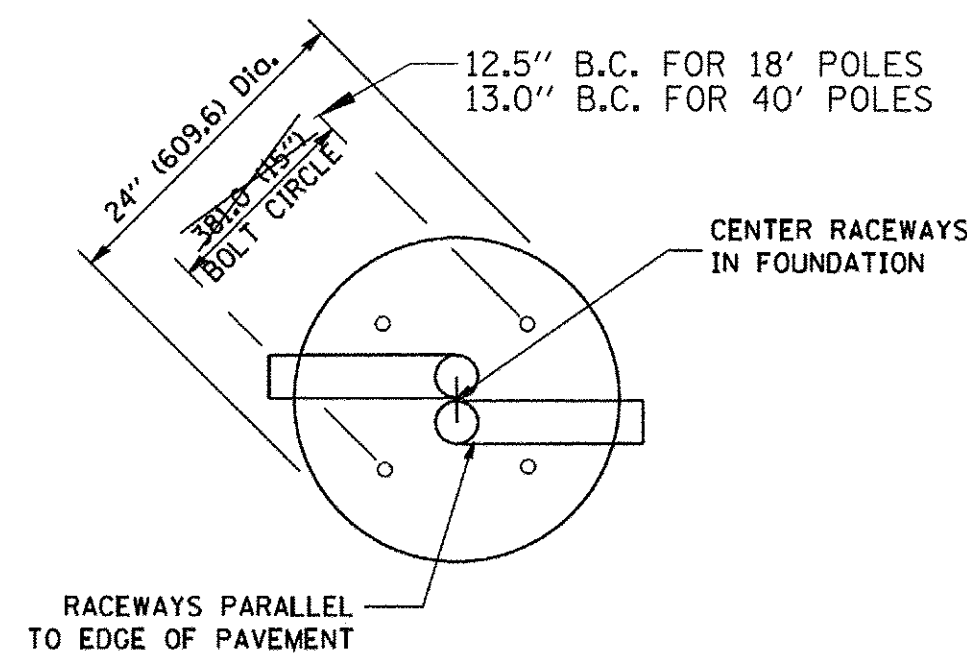
- 4 LUMINAIRES PER CIRCUIT, MAXIMUM.
- MULTI-CONDUCTOR CABLE ASSEMBLY FOR LIGHTING CIRCUITS.
- ROUTE LIGHTING CIRCUITS IN TRAFFIC SIGNAL CONDUIT SYSTEM.
- ALL SPLICES AND CONNECTIONS FOR ROADWAY LIGHTING SHALL BE AT POLE BASE ONLY.
- ALL CONTROLLERS TO HAVE TWO FUSED LIGHTING BRANCH CIRCUITS.
- ALL WIRING SHALL BE NEATLY DRESSED, IDENTIFIED BY TAGS, AND SUPPORTED. (UNDERGROUND SPLICING OF LIGHTING CONDUCTORS IS NOT PERMITTED).
- LIGHTING CONTROLLER DESIGNATION SHALL BE CONFIRMED WITH THE ENGINEER.
- RECORD DRAWING SHALL INCLUDE:
  - TRAFFIC SIGNAL PLAN SHEET(S)
  - TRAFFIC SIGNAL CABLE PLAN SHEET(S)
  - LIGHTING PLANS
  - THIS DETAIL
- THE H.O.A. SWITCH SHALL BE LABELED AS "LIGHTING CONTROL" WITH THE POSITIONS "AUTO", "OFF" AND "TEST" WITH ENGRAVED NAME PLATES.
- LIGHTING CONNECTED TO UPS BYPASS CIRCUIT

**COMBINATION LIGHTING, TRAFFIC SIGNAL SCHEMATIC**  
N.T.S.

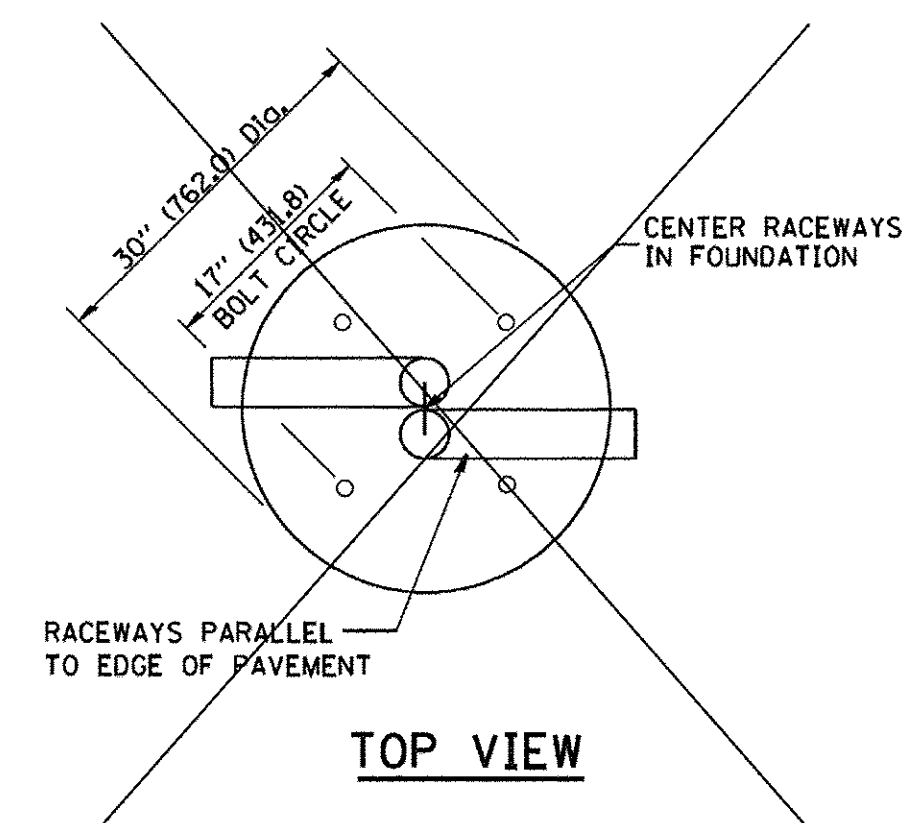
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Default	PLOT SCALE = 1'	CHECKED - AJD	REVISED -		SCALE: N.T.S.	SHEET 5	OF 9 SHEETS	STA. N/A	TO STA. N/A	CONTRACT NO. 61D82			
	PLOT DATE = 2/23/2017	DATE -	REVISED -		ILLINOIS FED. AID PROJECT								
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**LIGHT POLE FOUNDATION DEPTH TABLE**  
40 FT. (12.192 m) TO 47.5 FT. (14.478 m) MOUNTING HEIGHT

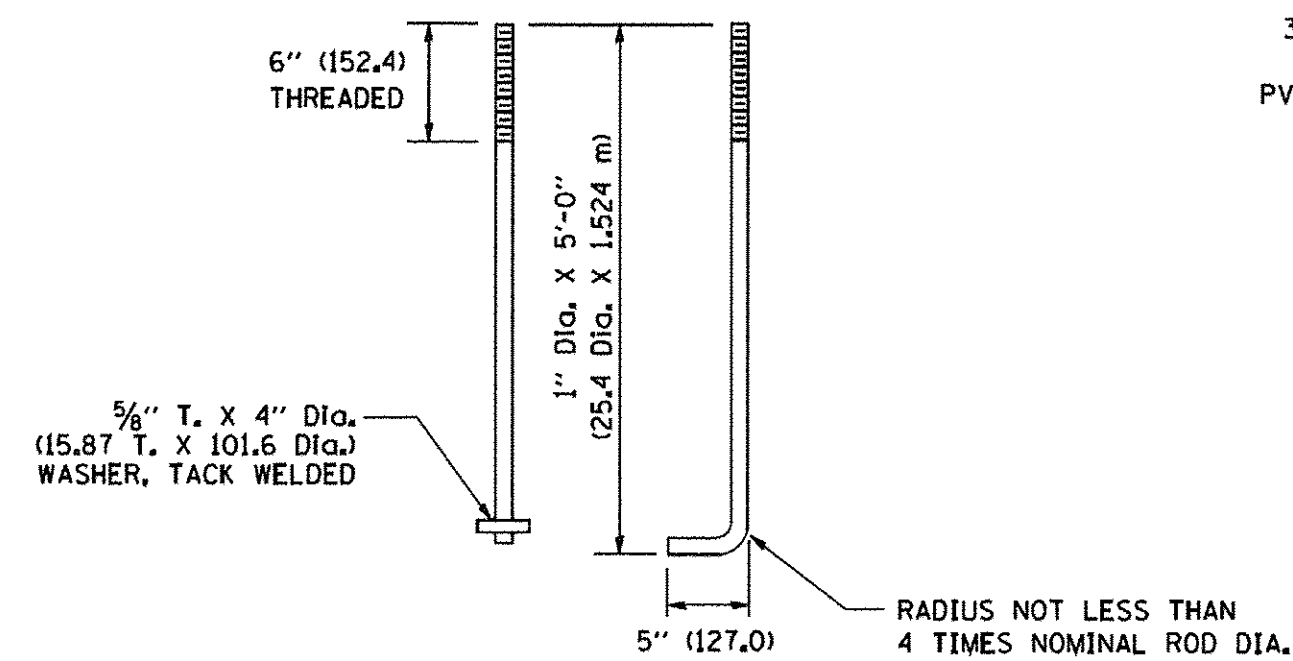
SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION	
	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY Ou = 0.375 TON/SQ. FT.	13'-0" (3.96 m)	15'-0" (4.57 m)
MEDIUM CLAY Ou = 0.75 TON/SQ. FT.	9'-6" (2.93 m)	10'-9" (3.23 m)
STIFF CLAY Ou = 1.50 TON/SQ. FT.	7'-0" (2.13 m)	8'-0" (2.44 m)
LOOSE SAND φ = 34°	9'-0" (2.74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



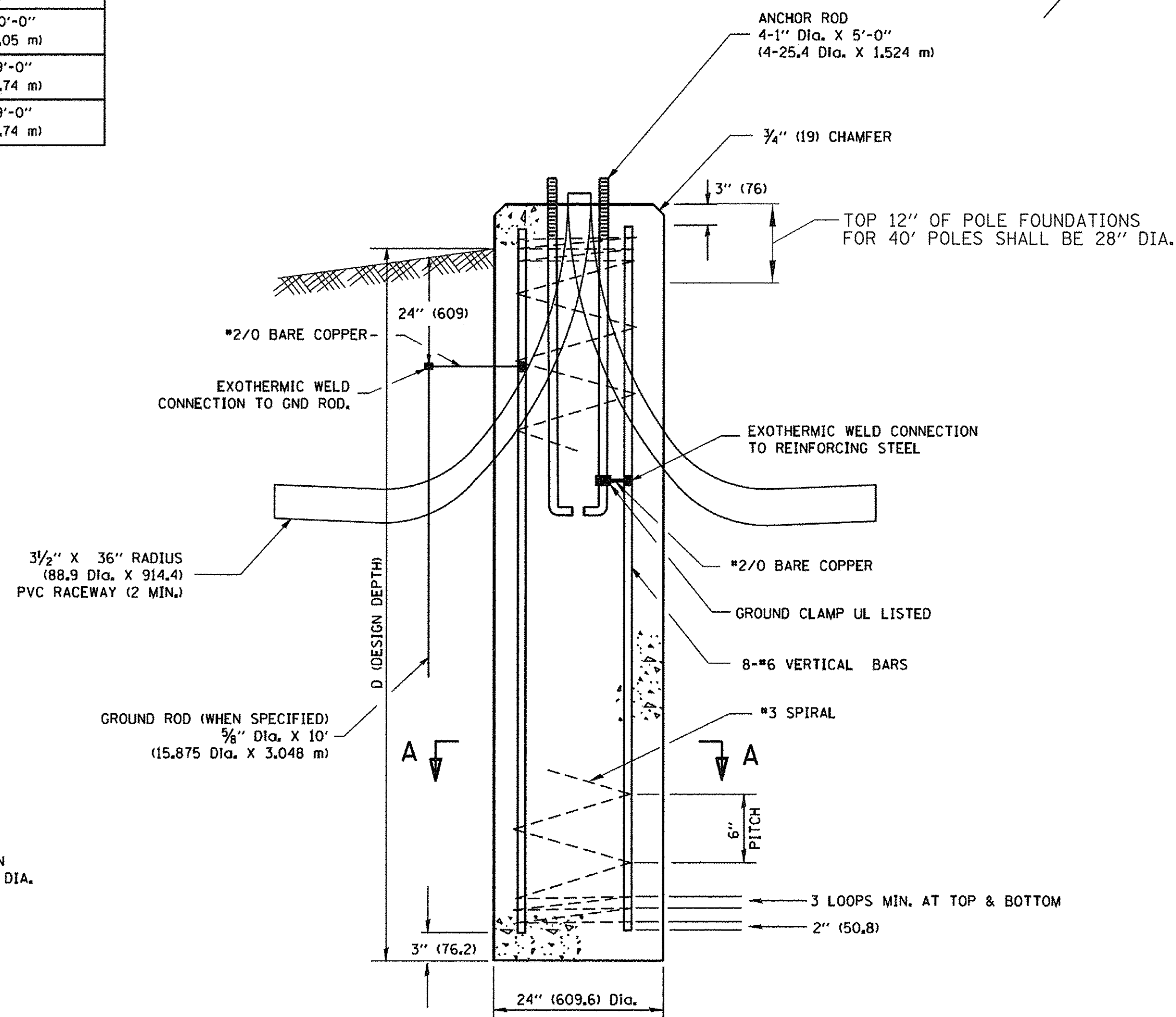
**TOP VIEW**



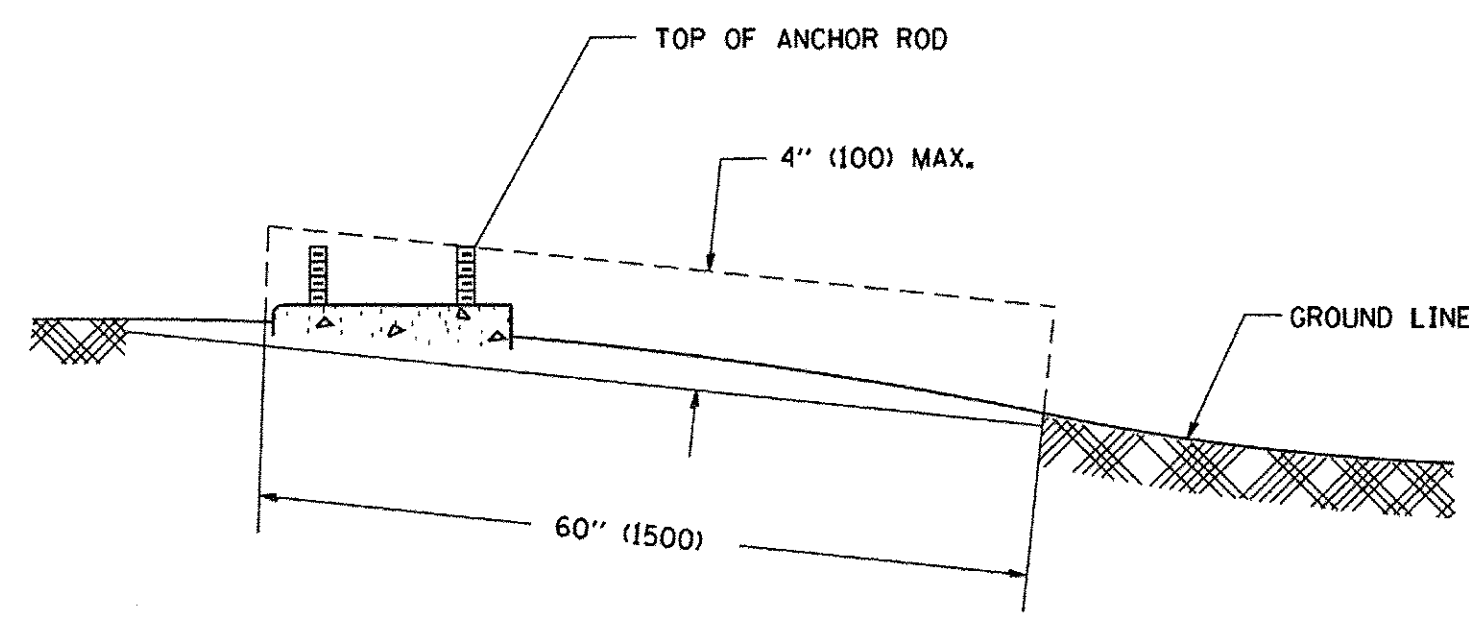
**TOP VIEW**



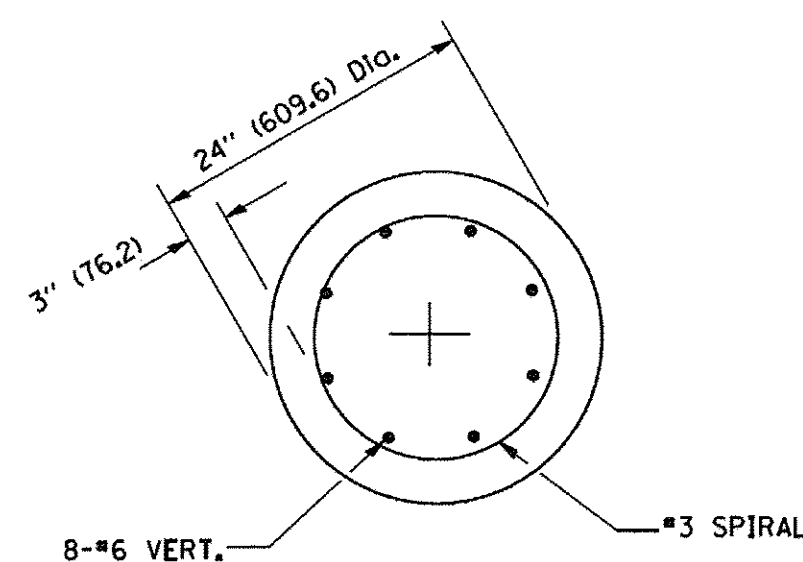
**ANCHOR ROD DETAIL**



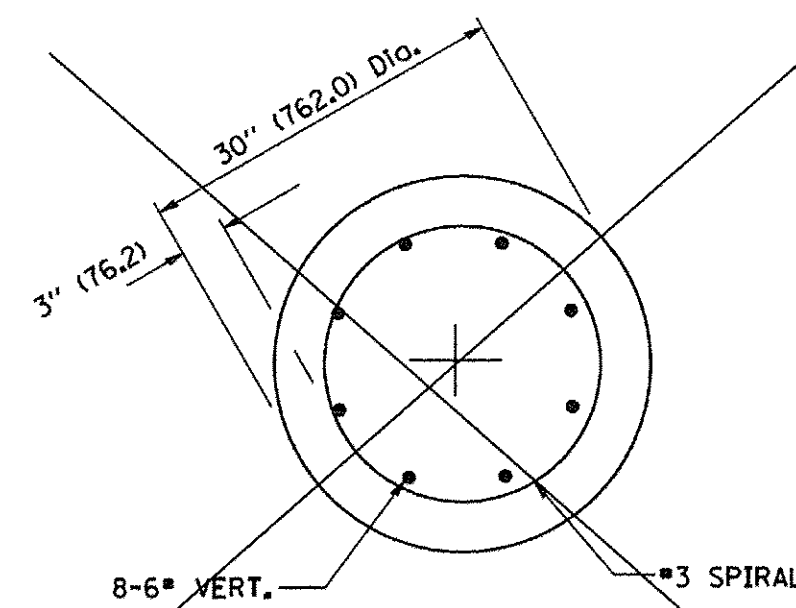
**FOUNDATION DETAIL**



**FOUNDATION EXTENSION DETAIL**



**SECTION A-A**



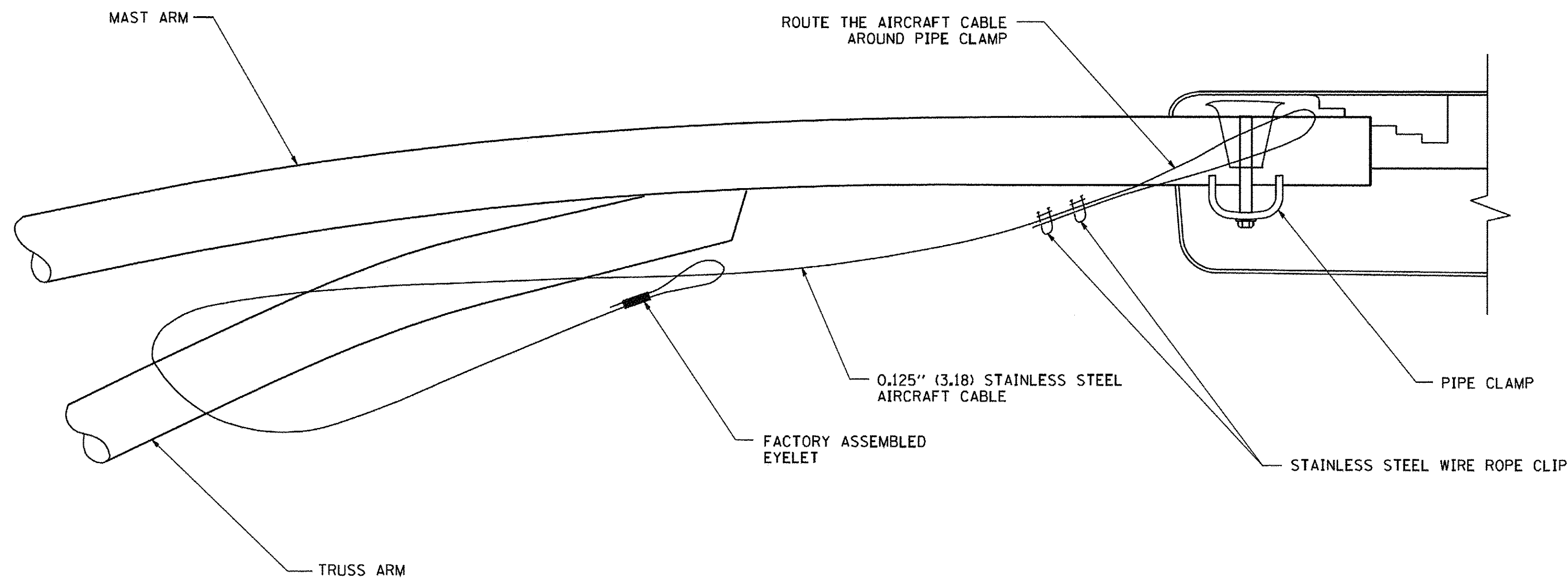
**SECTION A-A**

**NOTES**

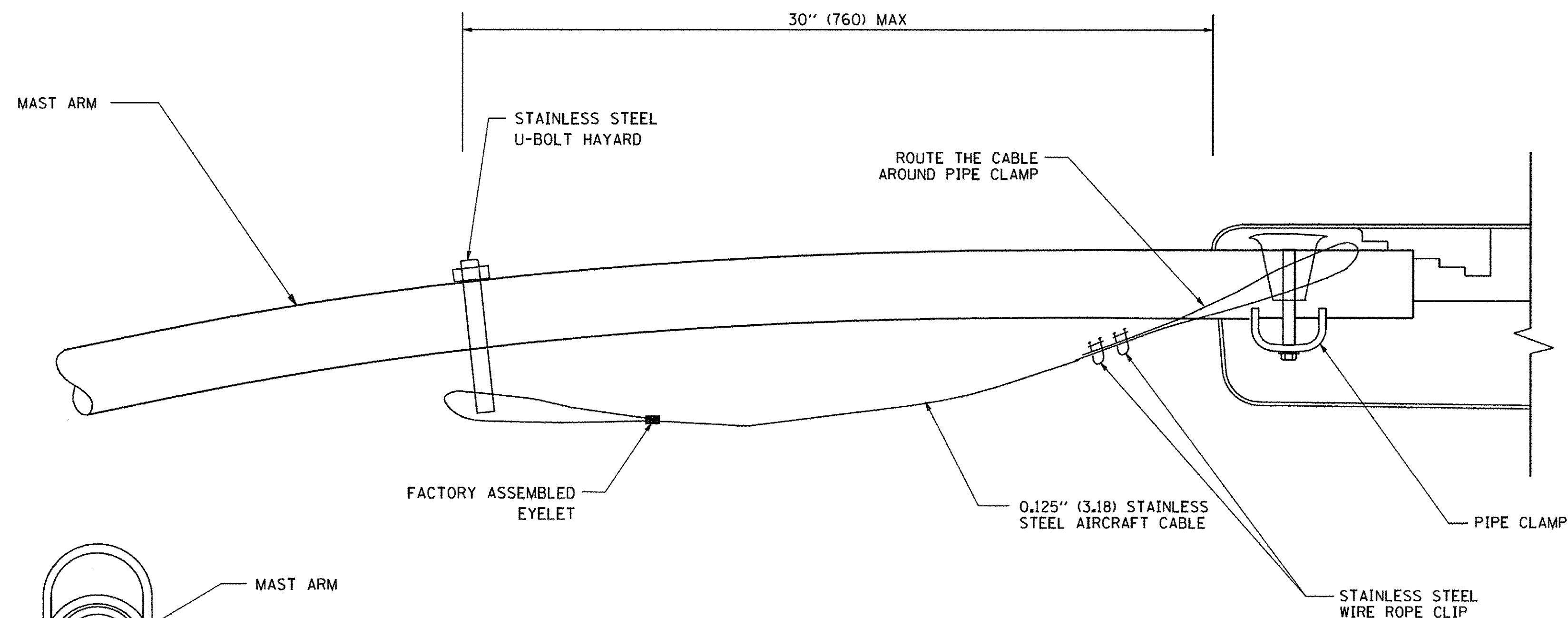
- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED.
- THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, 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 SI. 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.

**IDOT STANDARD BE-301**  
**(REVISED 4-22-2002)**  
**MODIFIED FOR THIS PROJECT**

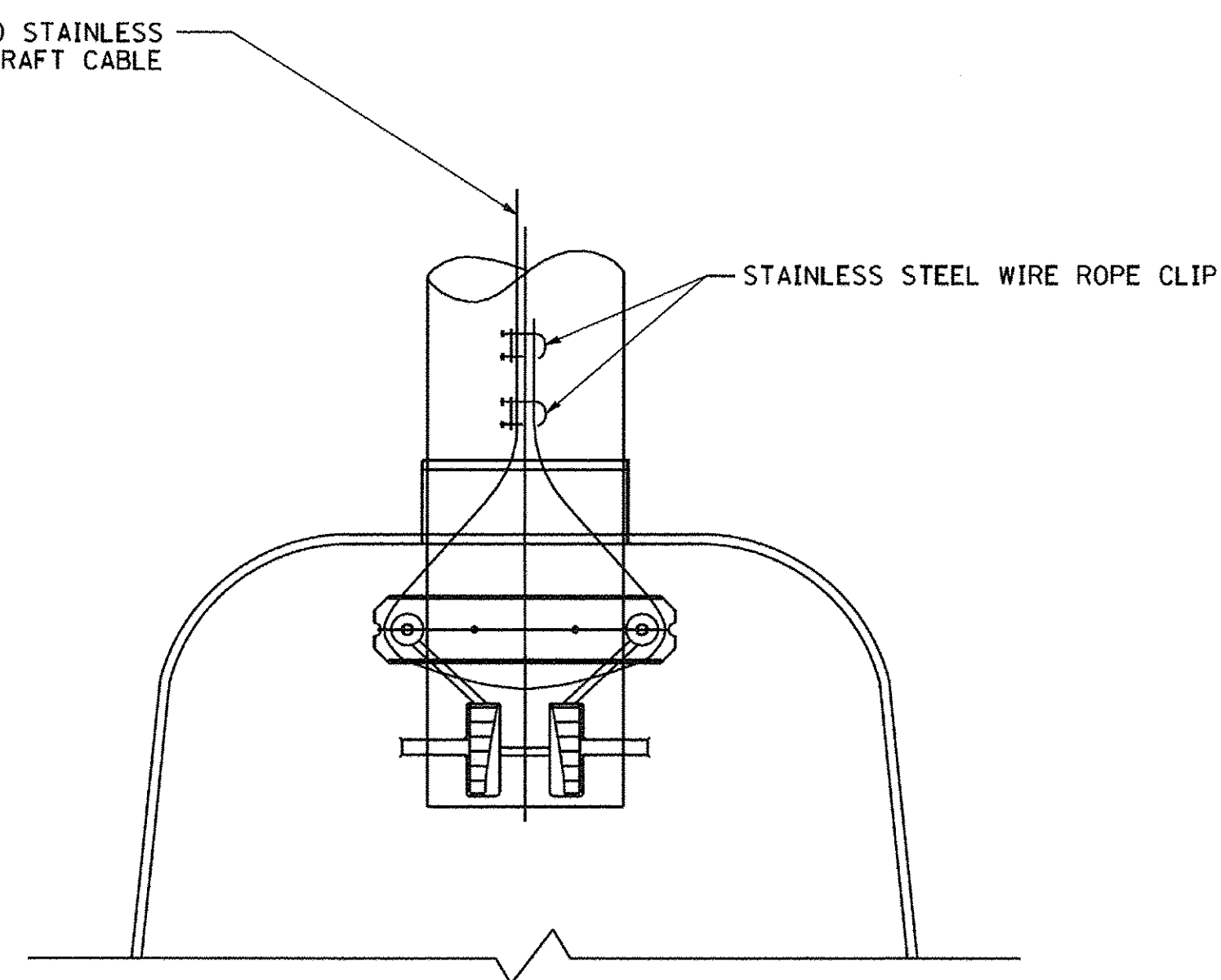




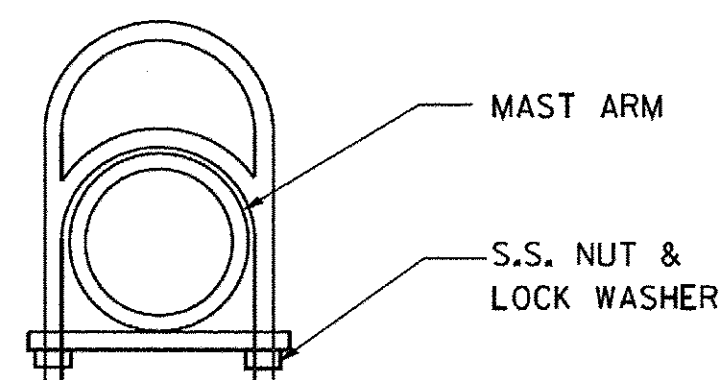
**SIDE VIEW (TRUSS ARM)**  
N.T.S.



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



**BOTTOM VIEW**  
N.T.S.



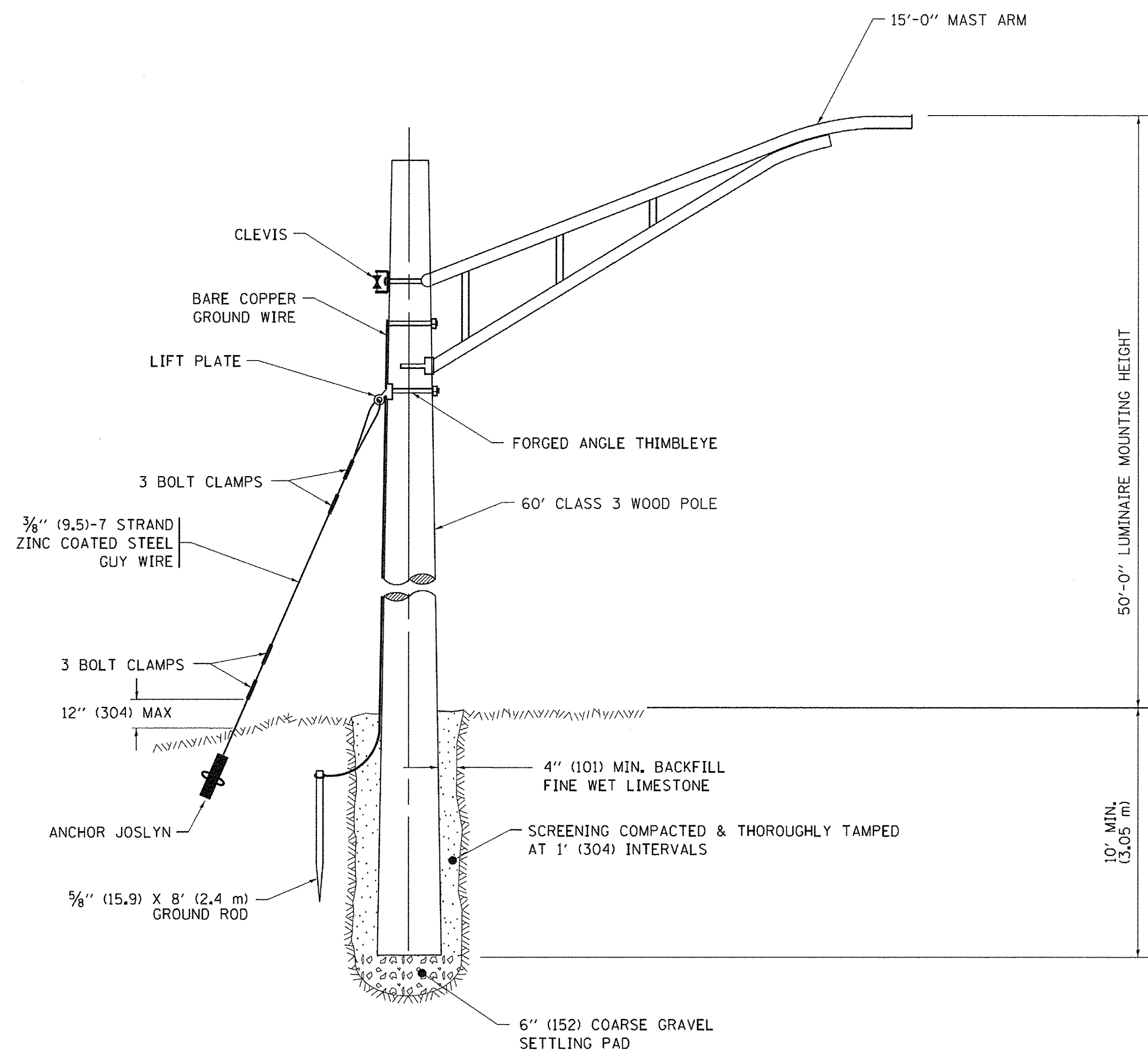
STAINLESS STEEL  
U-BOLT HAYARD

**NOTES:**

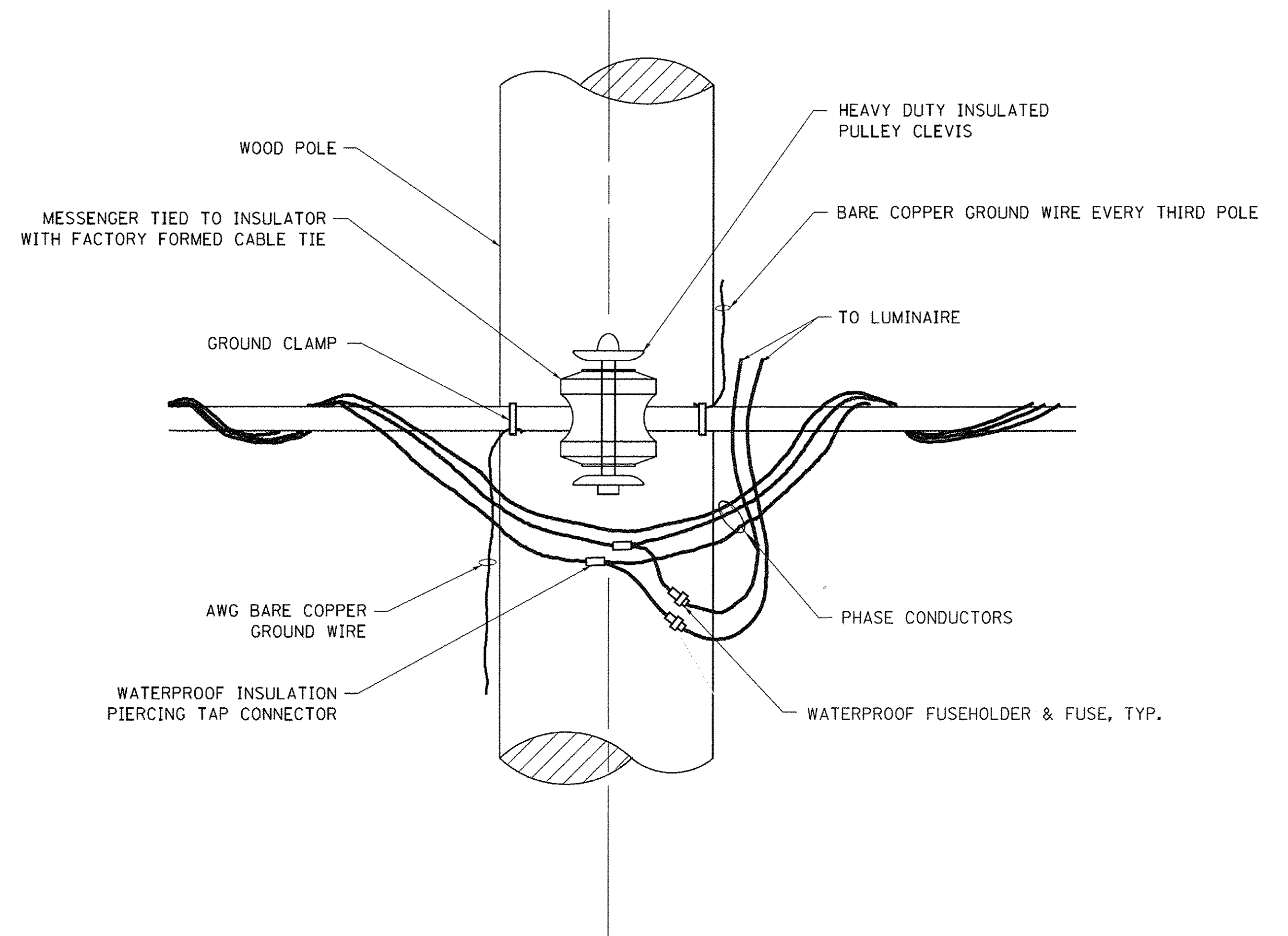
1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
2. CONTRACTOR SHALL ADJUST THE WIRE CLIP TO ELIMINATE ANY SLACK FROM THE WIRE ROPE.
3. THE 0.125" (3.18) STAINLESS STEEL AIRCRAFT CABLE SHALL REMAIN VISIBLE FROM THE GROUND LEVEL.
4. THE BREAKING STRENGTH OF THE CABLE SHALL BE 1700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

**IDOT STANDARD BE-701**  
**(REVISED 8-8-2003)**

FILE NAME =	USER NAME = jstrick	DESIGNED - AJD	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>US ROUTE 52 RIVER ROAD IDOT DISTRICT 1 STANDARD (2 OF 4)</b>			F.A.P. RTE. 607	SECTION 15-00040-00-CH	COUNTY WILL	TOTAL SHEETS 138	SHEET NO. 96
Default	PLOT SCALE = 1'	CHECKED - AJD	REVISED -		SCALE: N.T.S.	SHEET 7	OF 9 SHEETS	STA. N/A	TO STA. N/A	CONTRACT NO. 61D82		
	PLOT DATE = 2/23/2017	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							
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**TEMPORARY LIGHT POLE DETAIL**



**TEMPORARY LIGHT POLE ATTACHMENT DETAIL**

**NOTE:**

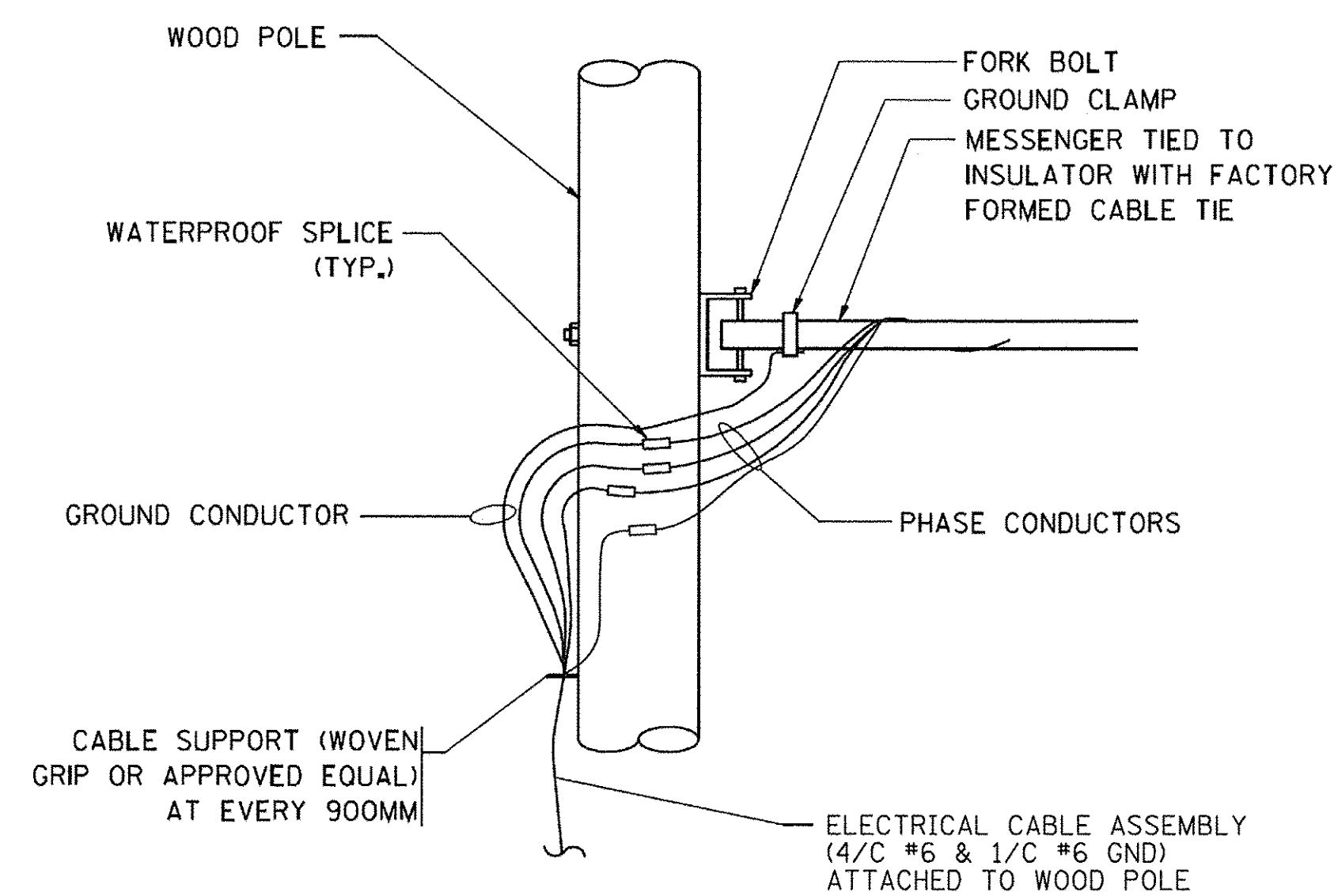
1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
2. MAST ARM SHALL BE RATED FOR THE SPECIFIED MOUNTING HEIGHT.

**IDOT STANDARD BE-800  
(REVISED 7-26-2016)  
MODIFIED FOR THIS PROJECT**

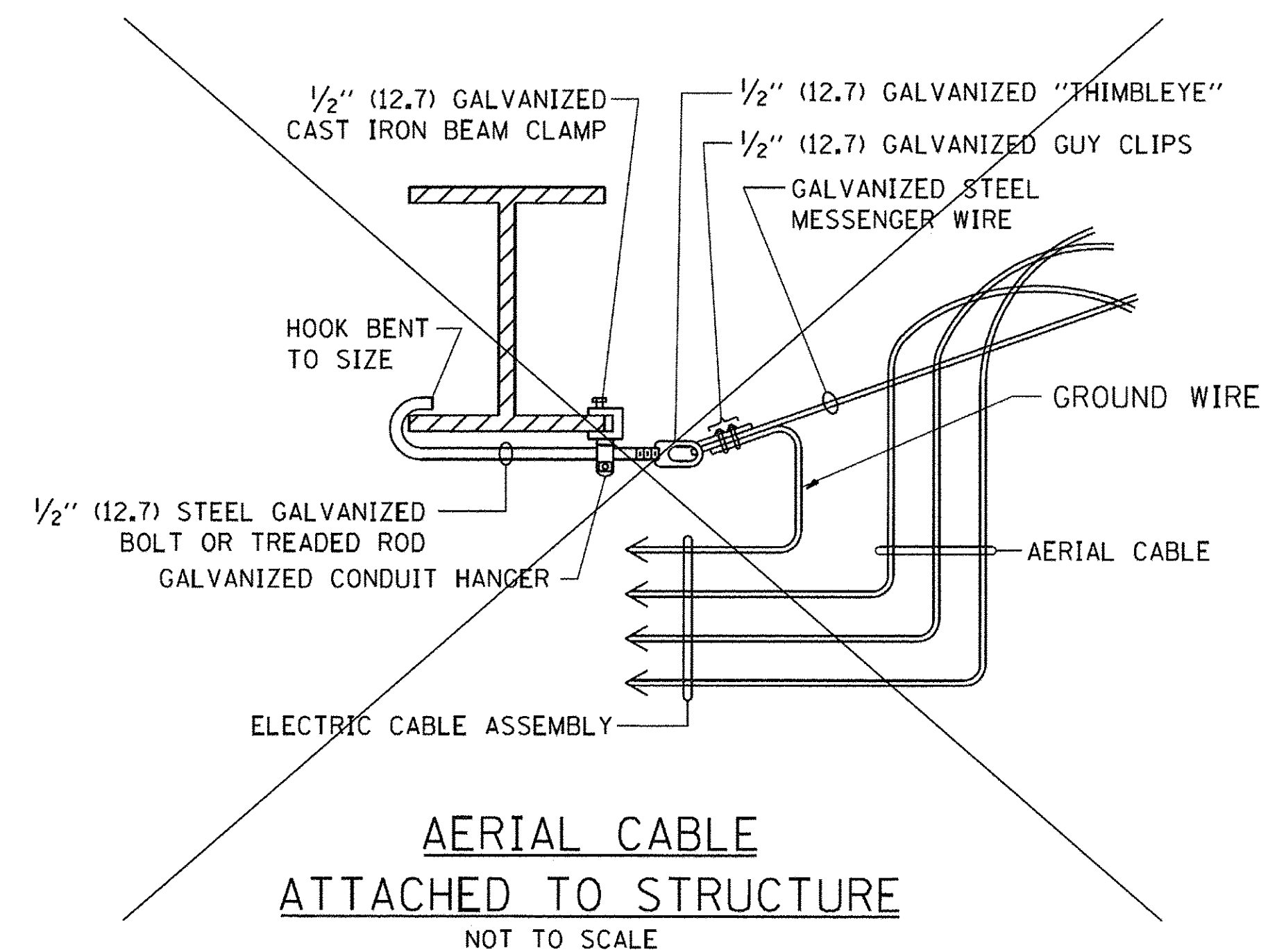
FILE NAME =	USER NAME = jstrick	DESIGNED - AJD	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>US ROUTE 52 RIVER ROAD IDOT DISTRICT 1 STANDARD (3 OF 4)</b>			F.A.P. RTE. 607	SECTION 15-00040-00-CH	COUNTY WILL	TOTAL SHEETS 138	SHEET NO. 97
Default	PLOT SCALE = 1'	DRAWN - LRR	REVISED -		SCALE: N.T.S.	SHEET 8	OF 9 SHEETS	STA. N/A	TO STA. N/A	CONTRACT NO. 61D82		
	PLOT DATE = 2/23/2017	CHECKED - AJD	REVISED -		ILLINOIS FED. AID PROJECT							
		DATE -	REVISED -									

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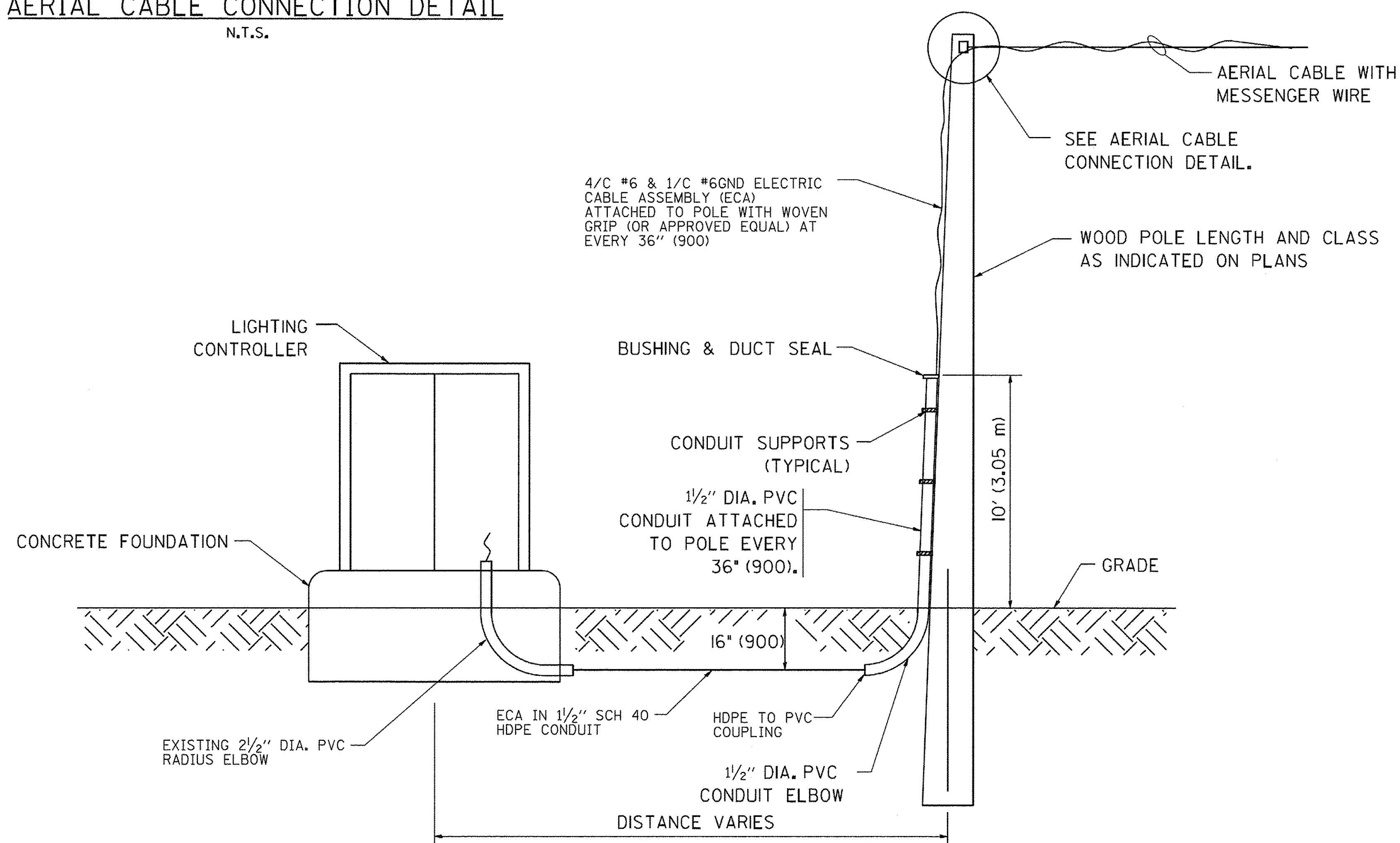
**AERIAL CABLE CONNECTION DETAIL**  
N.T.S.



**AERIAL CABLE ATTACHED TO STRUCTURE**  
NOT TO SCALE

**NOTES:**

1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
2. SEE PROPOSED LIGHTING PLAN FOR CONDUIT, CABLE AND ROUTING.
3. THE CONTRACTOR SHALL PROVIDE INTERMEDIATE SUPPORTS TO MAINTAIN MINIMUM CLEARANCES. REFER TO AERIAL AERIAL CABLE ATTACHED TO STRUCTURE DETAIL.
4. COST OF SPLICES AND MOUNTING HARDWARE SHALL BE INCLUDED IN THE UNIT PRICE FOR AERIAL CABLE.



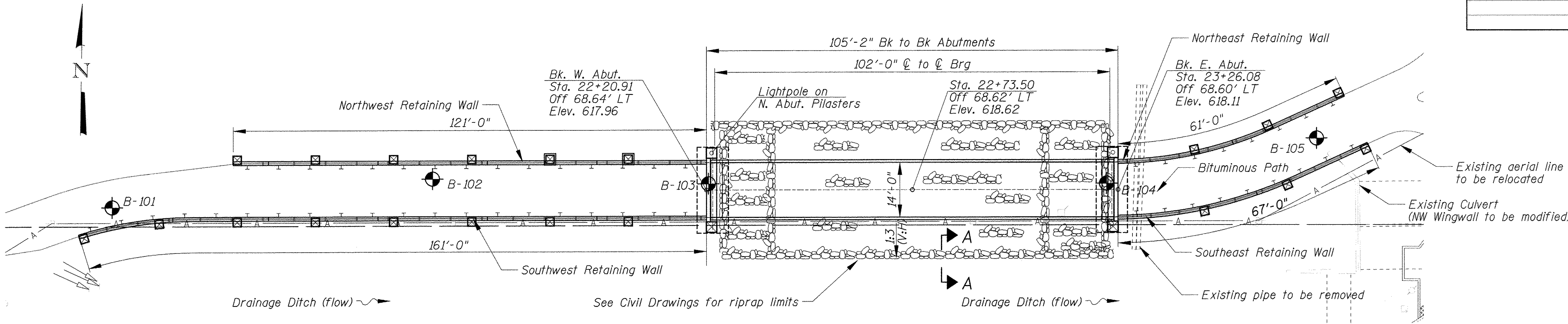
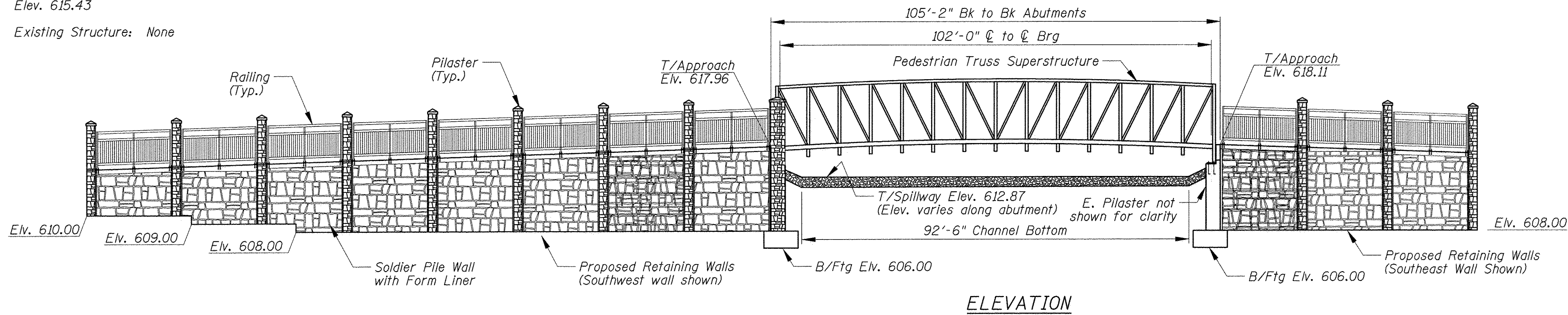
**WOOD POLE TO LIGHTING CONTROLLER WIRING CONNECTION DETAIL**  
N.T.S.

**IDOT STANDARD BE-801  
(REVISED 8-8-2003)  
MODIFIED FOR THIS PROJECT**

FILE NAME =	USER NAME = jstrjck	DESIGNED - AJD	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>US ROUTE 52 RIVER ROAD IDOT DISTRICT 1 STANDARD (4 OF 4)</b>				F.A.P. RTE. 607	SECTION 15-00040-00-CH	COUNTY WILL	TOTAL SHEETS 138	SHEET NO. 98
Default	PLOT SCALE = 1'	CHECKED - AJD	REVISED -		SCALE: N.T.S.	SHEET 9	OF 9 SHEETS	STA. N/A	TO STA. N/A	CONTRACT NO. 61D82			
	PLOT DATE = 2/23/2017	DATE -	REVISED -		ILLINOIS FED. AID PROJECT								
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BENCHMARK: OSBM-1 Square Cut on NE Corner of Concrete Headwall at SW Corner of US 52 and River Rd. Elev. 615.43

Existing Structure: None



Note: Stations and Offsets for Bridge Given with respect to US 52 Baseline

21 22 US 52 Baseline 23

**WATERWAY INFORMATION**

Drainage Area = 2.13 sq. mi. Proposed Overtopping Elev. 615.23 @ Sta. 20.50

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	278	-	150	614.5	-	0.0	-	614.5
Base	50	488	-	286	615.9	-	0.0	-	615.9
Max. Calc.	100	570	-	307	616.1	-	0.0	-	616.1
	500	742	-	358	616.6	-	0.1	-	616.7

**DESIGN SCOUR ELEVATION TABLE**

Event / Limit	Design Scour Elevations (ft.) NAVD 88		Item 113
	E. Abut.	W. Abut.	
Q100	-	-	8
Q200	614.86	614.71	
Design	606.00	606.00	
Check	606.00	606.00	

**LOADING**

H10 Maintenance Vehicle  
90 psf Pedestrian Load

**DESIGN STRESSES**

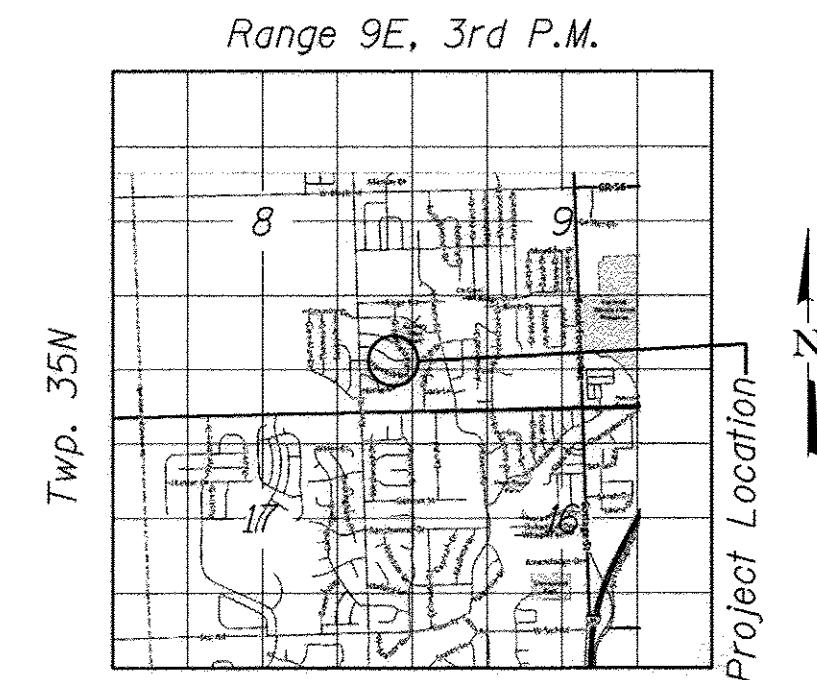
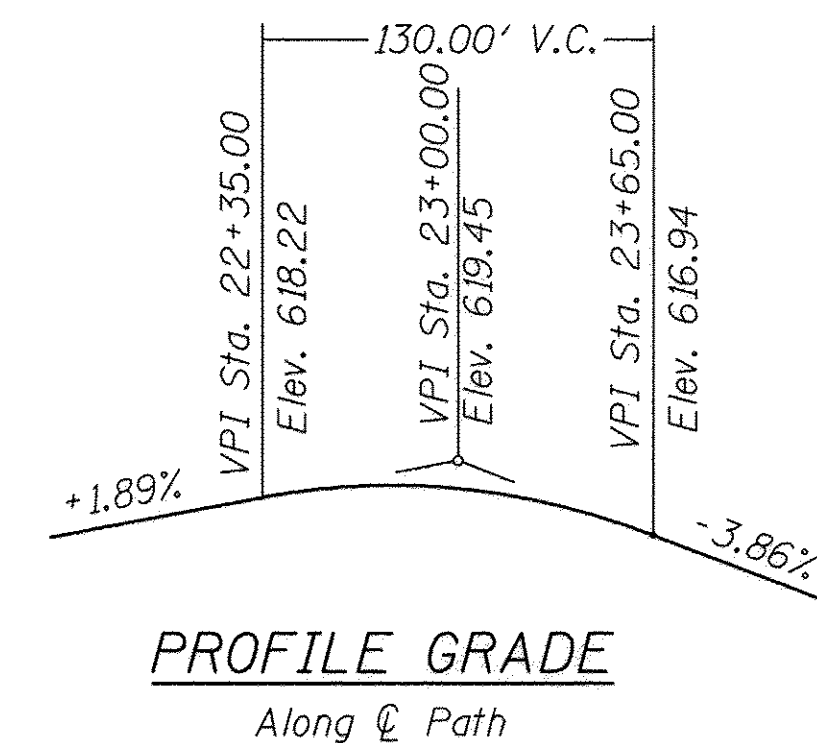
**FIELD UNITS**  
f<sub>c</sub> = 3,500 psi  
f<sub>y</sub> = 60,000 psi (Reinf.)

**DESIGN SPECIFICATIONS**

AASHTO LRFD Bridge Design Specifications, 7th Edition with 2016 Interims  
2009 LRFD Guide Specifications for the Design of Pedestrian Bridges, 2nd Edition

**SEISMIC DATA**

Seismic Performance Zone = 1  
Design Spectral Acceleration at 1.0 sec. (S<sub>D1</sub>) = 0.079g  
Design Spectral Acceleration at 0.2 sec. (S<sub>D5</sub>) = 0.169g  
Soil Site Class = D



**LOCATION SKETCH**

GENERAL PLAN  
PEDESTRIAN BRIDGE OVER  
HAMMEL CREEK  
WILL COUNTY  
STATION 22+73.50

**TOTAL BILL OF MATERIALS**

ITEM	UNIT	TOTAL
Concrete Removal	Cu. Yd.	2
Structure Excavation	Cu. Yd.	356
Concrete Structures	Cu. Yd.	360
Rubbed Finish	Sq. Ft.	816
Form Liner Textured Surface	Sq. Ft.	5486
Precast Concrete Caps	Each	22
Stud Shear Connection	Each	293
Reinforcement Bars, Epoxy Coated	Lbs.	27010
Bicycle Railing	Foot	479
Test Pile Steel HP 14x73	Each	4
Furnishing Soldier Piles (HP Section)	Foot	1158
Driving Soldier Piles	Foot	1158
Untreated Timber Lagging	Sq. Ft.	2808
Geocomposite Wall Drain	Sq. Yd.	312
Pedestrian Truss Superstructure	Sq. Ft.	1442
Pipe Underdrains for Structures, 4"	Foot	40
Granular Backfill for Structures	Cu. Yd.	62

**INDEX OF SHEETS**

- 1 General Plan and Elevation
- 2 General Notes and Details
- 3 Abutment Details
- 4 West Retaining Walls
- 5 East Retaining Walls
- 6 Wall Details
- 7 Wall Details
- 8 Railing Details
- 9 HP Pile Details
- 10-12 Culvert Modifications
- 13 Moment Slab
- 14 Boring Logs



I Certify That To The Best Of My Knowledge, Information And Belief, This Bridge Design Is Structurally Adequate For The Design Loading Shown On The Plans. The Design Is An Economical One For The Style Of Structure And Complies With Requirements Of The Current "AASHTO Bridge Design Specifications".

*Majid Mobasser*  
**MAJID MOBASSERI**  
ILLINOIS REGISTRATION No. 081-005058 STRUCTURAL ENGINEER  
EXPIRATION DATE: 11/30/18

FILE NAME =	USER NAME = jstrick	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>US ROUTE 52 RIVER ROAD</b>			F.A.P. RTE. 607	SECTION 15-00040-00-CH	COUNTY WILL	TOTAL SHEETS 138	SHEET NO. 99
Default	PLOT SCALE = 1/8"	DRAWN -	REVISED -		SCALE:	SHEET	OF SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		
	PLOT DATE = 2/23/2017	CHECKED -	REVISED -									
		DATE -	REVISED -									



**I General Notes**

1. All work shall be done in accordance to the Illinois Department of Transportation (IDOT) Standard Specification for Road and Bridge Construction. Adopted April 1, 2016, and latest Supplemental Specifications and recurring Special Provisions, unless noted otherwise. Construction Plans and Subsequent Details are all to be considered as part of the Contract. Incidental Items or Accessories necessary to complete this work may not be specifically noted but are considered a part of this Contract.

2. No Construction Plans shall be used for Construction unless specifically Marked for Construction. Prior to commencement of construction, the Contractor shall verify all dimensions and conditions affecting the work with the actual conditions, if there are discrepancies between the Job site and what is shown on the construction plans, the contractor must immediately report to Engineer before doing any work, otherwise the Contractor shall assume full responsibility. In the event of disagreement between the plans and existing conditions and or details, the Contractor shall secure written instruction from the Engineer prior to proceeding with any part of the work affected by omissions or discrepancies. In failing to secure such instruction, the Contractor will be considered to have proceeded at his own risk and expense. In the event of any doubt or questions arising with respect to the true meaning of the Construction Plans or Specifications, the decision of the Engineer shall be final and conclusive.

3. Contractor shall verify all topographic information and grade elevations adjacent to bridge prior to proceeding, Inform Engineer of any variation.

**II CAST-IN-PLACE CONCRETE**

1. All cast-in-place concrete work and reinforcing steel work shall be in accordance with Sections 503 and 508 respectively of the IDOT Standard Specifications for Road and Bridge Construction, adopted April 1, 2106, and Supplemental Specifications and Recurring Special Provisions and as noted below.

2. Cover from the face of concrete to face of reinforcement bars shall be 3" for surfaces cast against earth and 2" for all other surfaces unless otherwise shown.

3. Reinforcement Bars designated (E) shall be Epoxy Coated.

4. Reinforcing bar bending dimensions are out to out.

5. All other C.I.P. concrete shall be class BS concrete and shall have a minimum compressive strength of 4,000 psi @ 28 days.

6. All exposed concrete edges shall be beveled 3/4".

7. Concrete Sealer shall be applied to the top and front face of abutment back, front face of stem, and beam seat.

**III PREFABRICATED PEDESTRIAN BRIDGE**

The Prefabricated Pedestrian Bridge shall be designed, fabricated, delivered and erected according to the Special Provisions of "Pedestrian Truss Superstructure" and design plans.

1. Style: Pratt Truss or Approved Equal.

2. Span: 103'-0" End to end of Truss.

3. Loading: Per AASHTO Guide Specification for Design of Pedestrian Bridges, 2<sup>nd</sup> Edition  
 Dead Load: Actual weight of the structure  
 Live Load: 90 PSF or H10 (20,000 Lb) vertical load. Vertical impact is not required.  
 Wind Load: 35 PSF on the full vertical projected area of the bridge, as if enclosed.

4. Finishes: All steel shall be unpainted weathering, except structural steel and exposed surfaces of bearings within a distance of 10 ft. each way from the deck joints shall be painted as specified in Section 506 of the Standard Specifications.

5. The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat for all interior steel surfaces shall be gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Reddish Brown, Munsell No. 2.5 YR 3/4.

6. The total depth of deck, from top of deck to the bottom of bottom chord shall be less than 2'-3".

7. Truss manufacturer shall camber the truss as necessary to provide allowance for dead load deflection.

8. Bridge bearing seat elevations are subject to revision based on the approved pedestrian truss superstructure shop drawings. Contractor shall verify all dimensions and elevations with final shop drawings.

9. The Contractor shall provide the reinforced concrete deck design. Concrete deck to utilize stay-in-place galvanized forms. Reinforcement shall be epoxy coated. Contractor shall place the concrete deck after truss is set. Cost included with Pedestrian Truss Superstructure.

10. Truss Manufacturer shall provide joint covers for joints between abutment backwall and steel truss. Cost included with Pedestrian Truss Superstructure.

11. Quality: The bridge manufacturer shall maintain proper records assuring that all steel, bolts, and materials used are in accordance with material specified. The bridge shall be identified and marked with a permanent nameplate showing the manufacturers name, location, date of manufacture, and load carrying capacity. Structural material shall be traceable to each bridge. All welders shall be qualified in accordance with AWS D1.1-2002 structural welding code. All workmanship shall be in compliance with AASHTO and AISC standard practice. Full penetration weld details used in shop splices shall be submitted to the Engineer to determine testing required (if any).

12. Delivery: Bridges shall be delivered by truck to a location nearest the site accessible by roads.

13. Field welding of construction accessories will not be permitted to beams or girders.

**IV CONSTRUCTION**

1. Do not scale dimensions for construction. Scale, if shown, applies only to full size drawings.

2. No construction joints, except those shown on the plans, will be allowed unless directed by the Engineer.

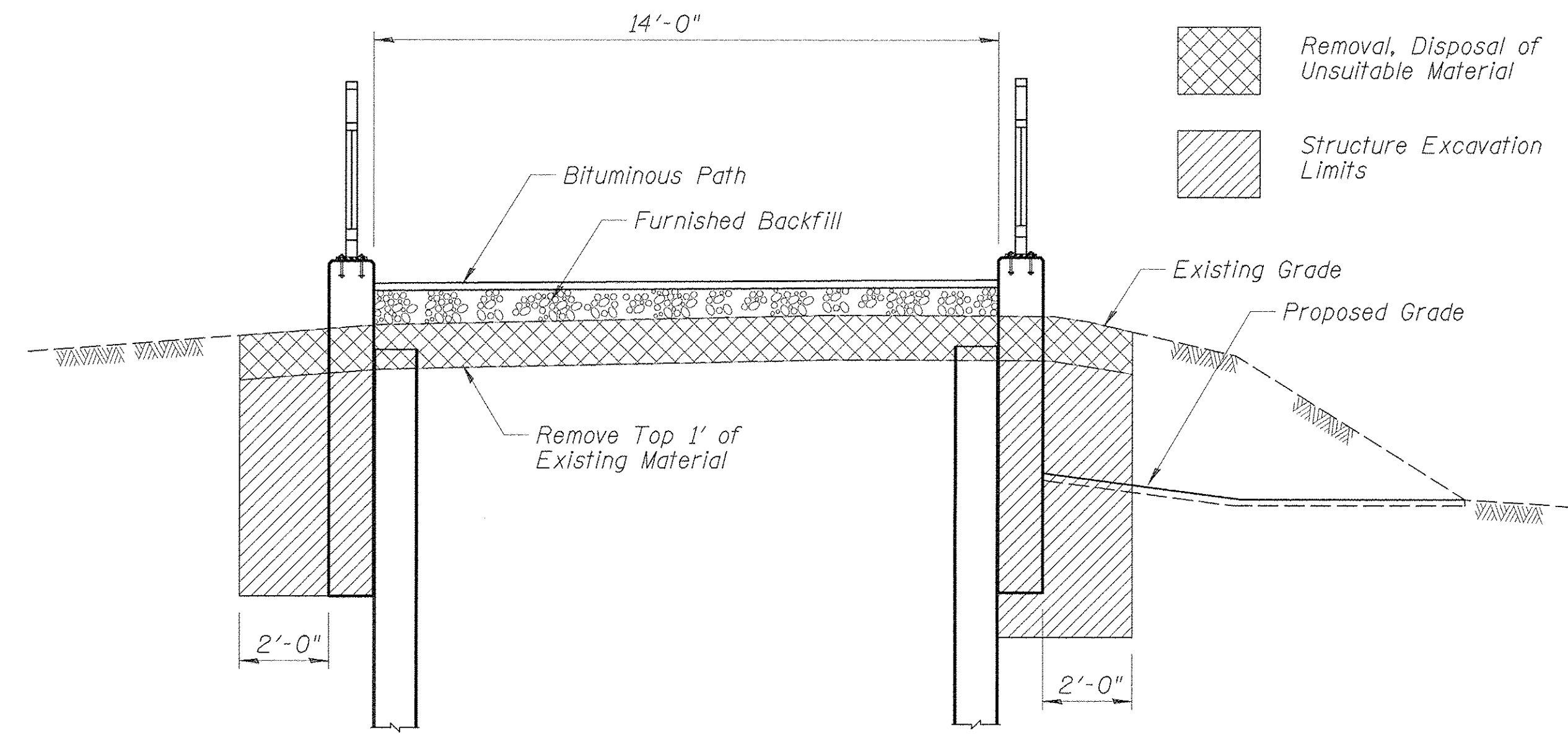
3. Any information concerning type or location of underground and other utilities is not guaranteed to be accurate or all inclusive. The Contractor is responsible for making his own determinations as to the type and location of the utilities as may be necessary to avoid damage thereto. Contractor shall call J.U.L.I.E. and the Engineer prior to excavation.

4. Shop working or layout drawings pertaining to the construction of the work, as may be required, shall be submitted to the Engineer for approval prior to the start of construction. Shop drawing shall be signed and sealed by a Structural Engineer licensed in State of Illinois.

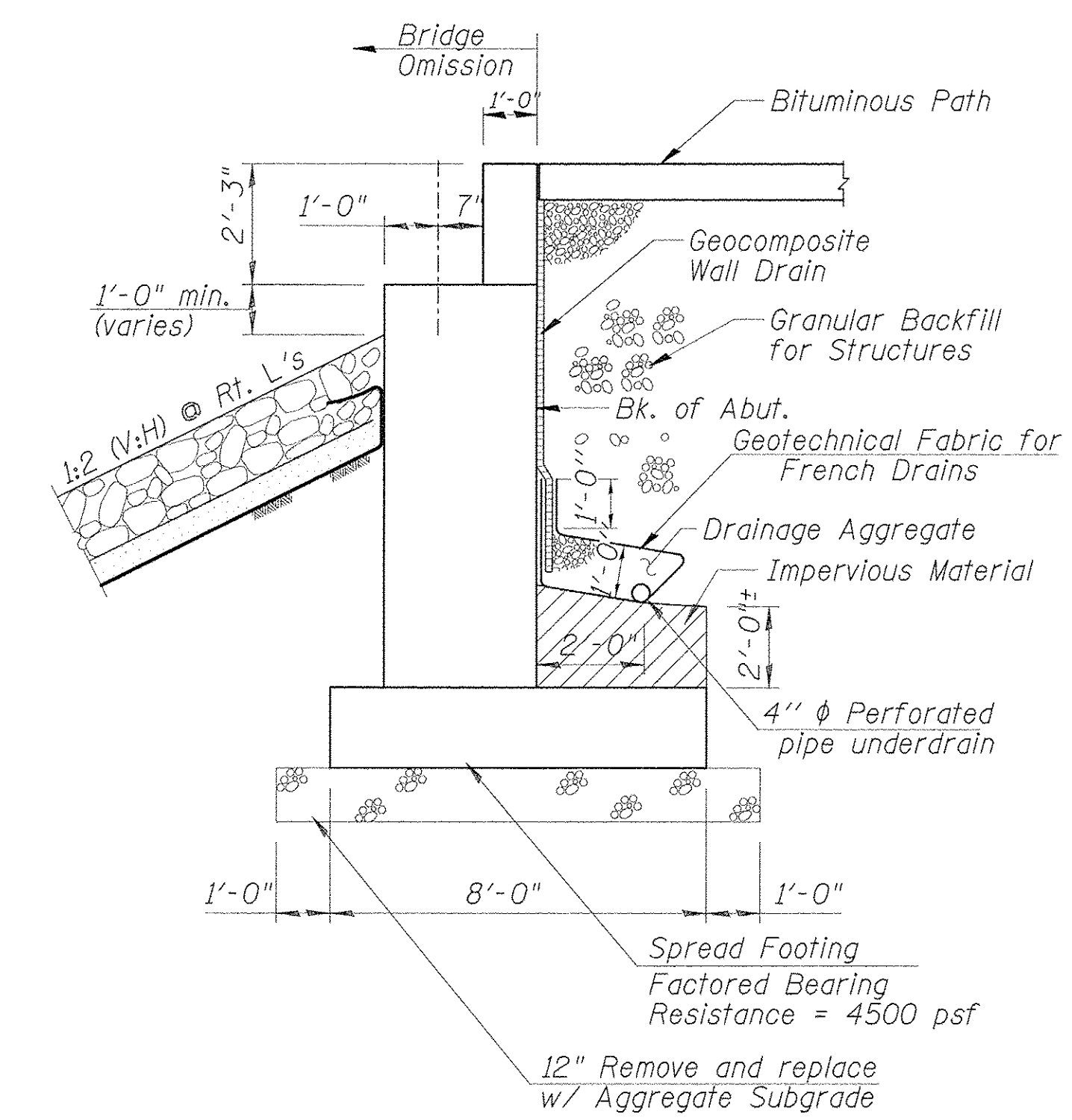
5. Upon completion, the contractor shall collect and remove all construction debris and excess material from the site. Damaged trees, shrubs, and other landscape features resulting from construction activities shall be replaced or repaired.

6. All bearing surfaces must be true and level.

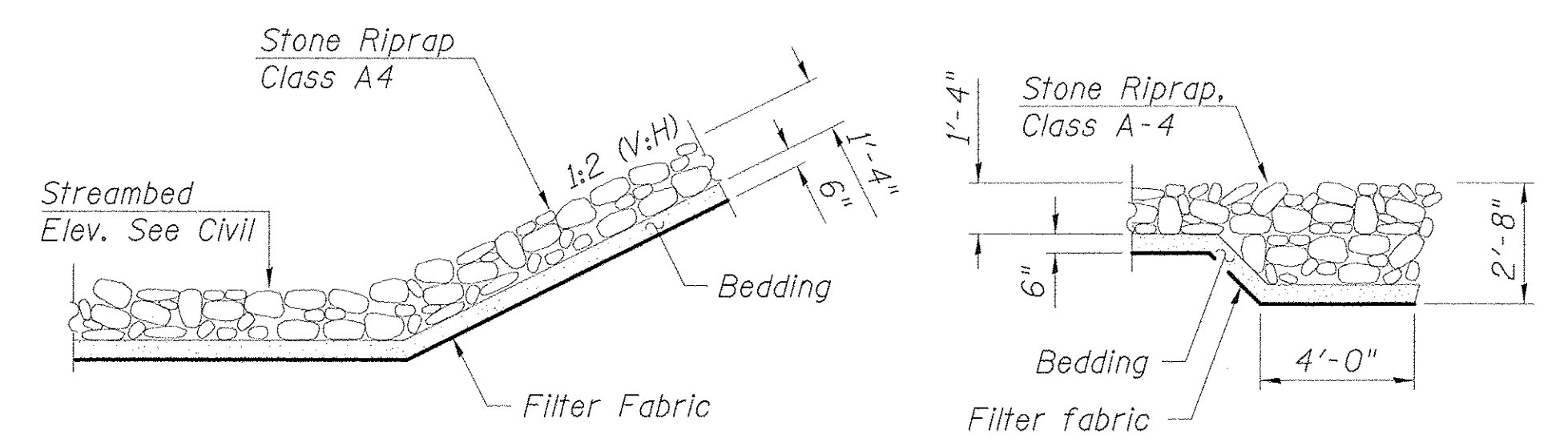
7. Contractor must coordinate with Bridge Manufacturer to ensure proper placement of cast-in-place anchors. If the contractor elects to use post-installed anchors in lieu of cast-in-place anchors, he must coordinate the plate dimensions, bolt spacing and bolt quantity with the Bridge Manufacturer prior to construction.



SECTION THRU WALLS

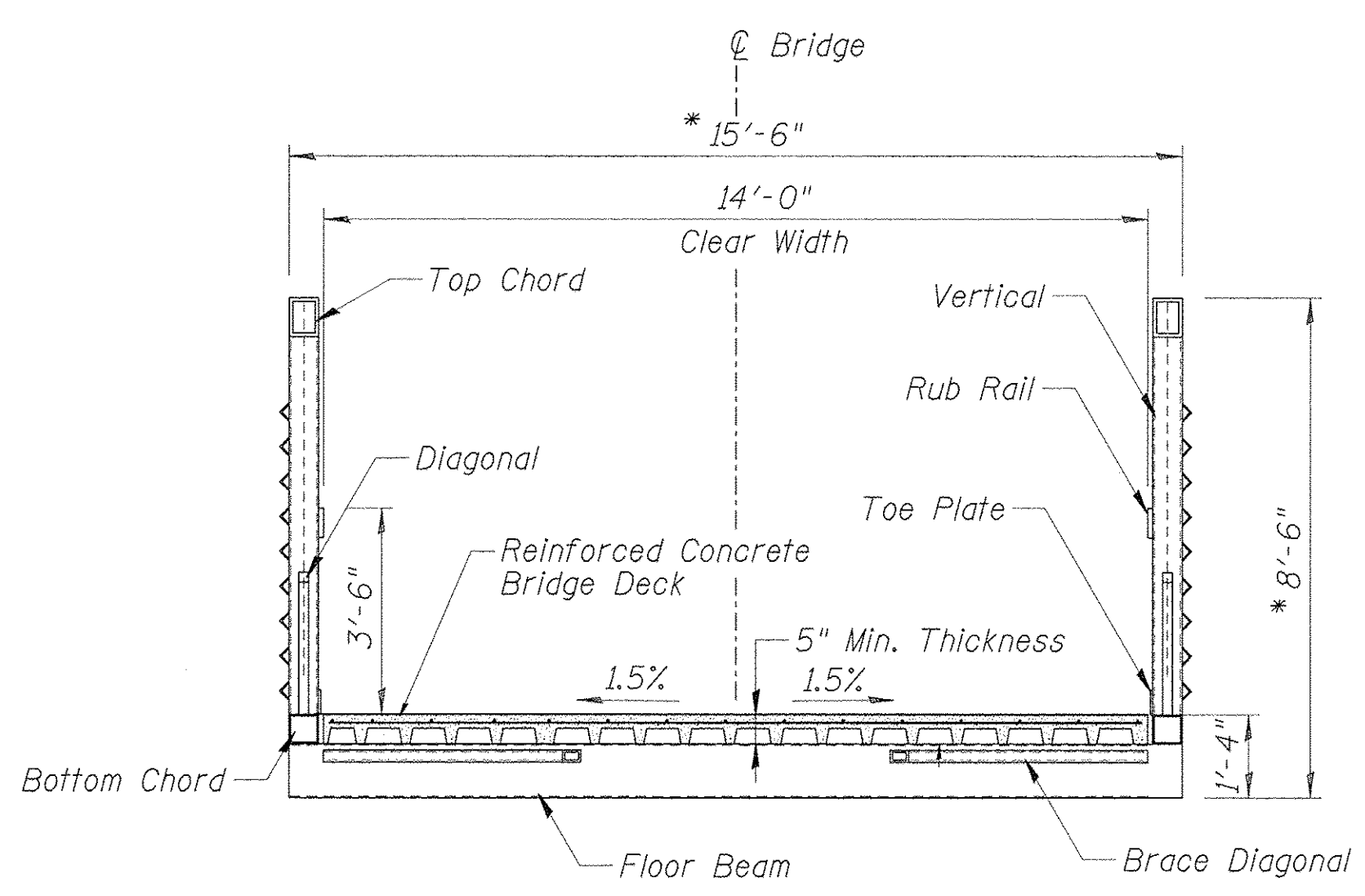


SECTION THRU ABUTMENT



STONE RIPRAP TREATMENT TOE OF SLOPE

SECTION A-A



TYPICAL SECTION

\* Subject to Refinement by Truss Manufacturer

FILE NAME =	USER NAME = jstrick	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>US ROUTE 52 RIVER ROAD GENERAL NOTES AND DETAILS</b>	F.A.P. RTE. 607	SECTION 15-00040-00-CH	COUNTY WILL	TOTAL SHEETS 138	SHEET NO. 100		
Default	PLOT SCALE = 1'	CHECKED -	REVISED -			SCALE:	SHEET OF SHEETS	STA. TO STA.	CONTRACT NO. 61D82			
	PLOT DATE = 2/23/2017	DATE -	REVISED -			ILLINOIS FED. AID PROJECT						
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