

TS 555



DESIGNED -	D.M.S.	REVISED -	
DRAWN -	D.M.S.	REVISED -	
CHECKED -	D.J.C.	REVISED -	
DATE -	09-01-2020	REVISED -	

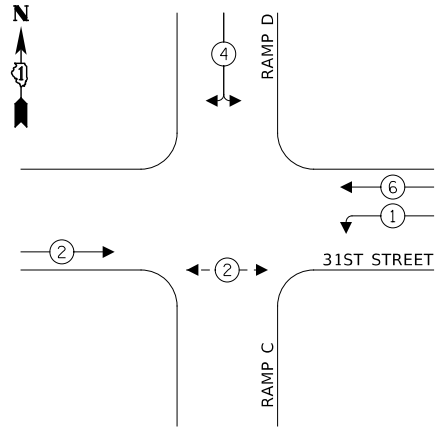
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN
31ST STREET AND IL 83 SOUTH RAMPS

SCALE: AS SHOWN SHEET 2 OF 5 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	201
TSS-18		CONTRACT NO. 61G12		
ILLINOIS FED. AID PROJECT				

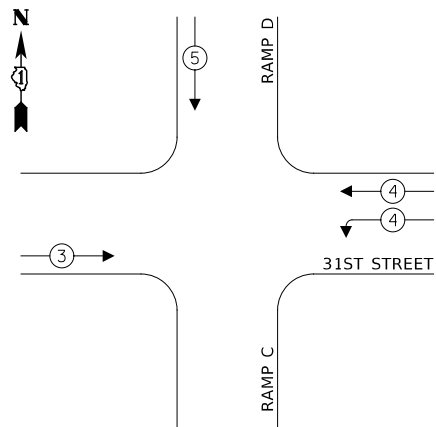
PROPOSED CONTROLLER SEQUENCE



LEGEND:

- ←(*) PROTECTED PHASE
- ←-(*)- PROTECTED/PERMITTED PHASE
- ←(*)→ PEDESTRIAN PHASE

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

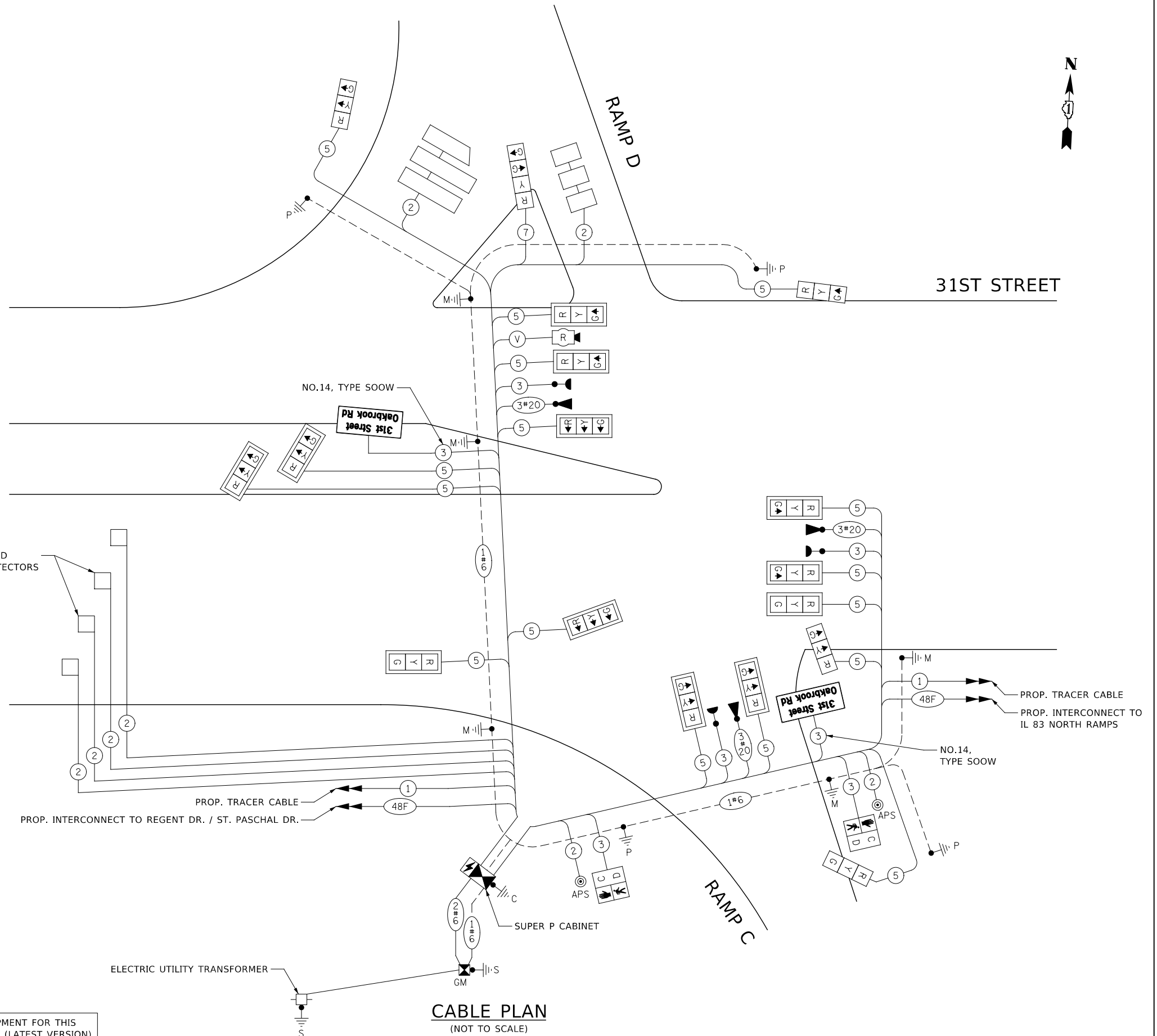
TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	15	11	50	82.5
(YELLOW)	15	20	5	15.0
(GREEN)	16	12	45	86.4
PERMISSIVE ARROW	-	10	10	-
PED. SIGNAL	2	20	100	40.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
RADAR SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	2	120	50	120
LUMINAIRE	-	310	50	-
TOTAL =				618.9

ENERGY COSTS TO:
 VILLAGE OF OAK BROOK
 3003 JORIE BOULEVARD
 OAK BROOK, IL 60523

ENERGY SUPPLY: CONTACT: ERIC JOSTES
 PHONE: (630) 437-2927
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: ---

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE ECONOLITE NTCIP (LATEST VERSION).

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CABLE PLAN
(NOT TO SCALE)



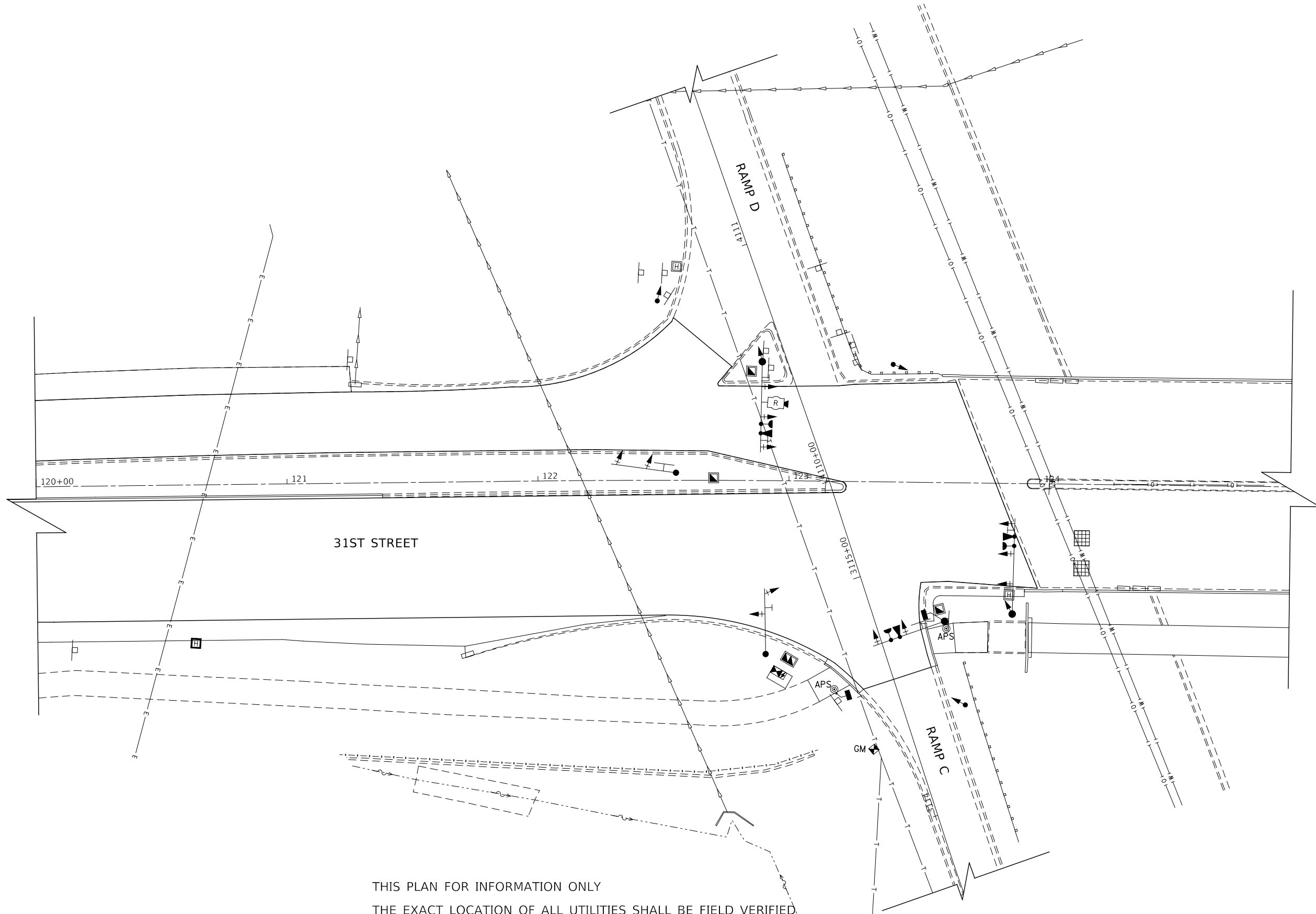
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL CABLE PLAN, PHASE DESIGNATION DIAGRAM,
 AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
 31ST STREET AND IL 83 SOUTH RAMPS**

SCALE: AS SHOWN SHEET 3 OF 5 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	202
TSS-19		CONTRACT NO. 61G12		
ILLINOIS FED. AID PROJECT				

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THIS PLAN FOR INFORMATION ONLY
 THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED
 BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY COMPONENTS
 OF THE TRAFFIC SIGNAL SYSTEM.



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KNIGHT
 Engineers & Architects

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EXISTING UTILITIES PLAN
 31ST STREET AND IL 83 SOUTH RAMPS**

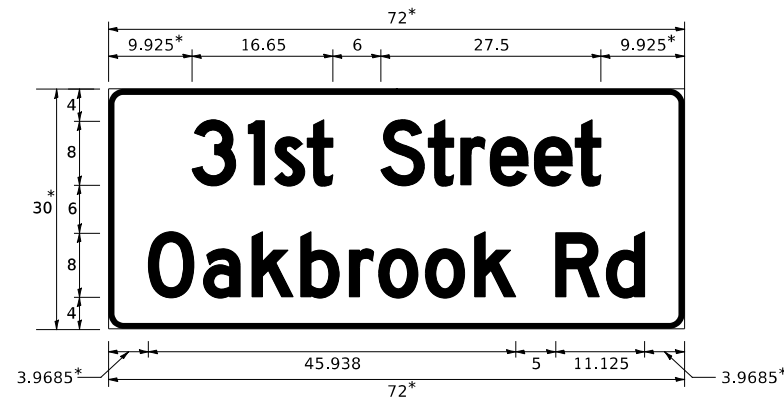
SCALE: AS SHOWN SHEET 4 OF 5 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	203
TSS-20		CONTRACT NO. 61G12		
ILLINOIS FED. AID PROJECT				

31ST STREET AND IL 83 SOUTH RAMPS INTERSECTION

LED ILLUMINATED STREET NAME SIGN

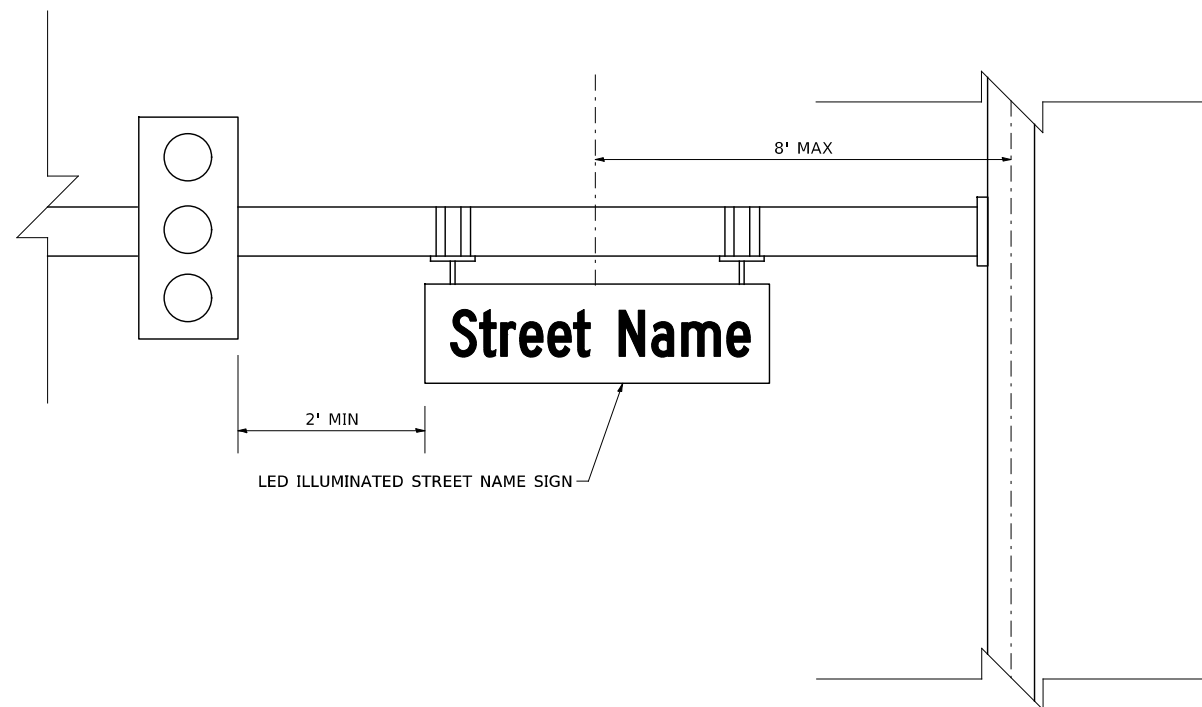
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	INTERSECTION QTY. REQUIRED
D	15.0	LED ILLUMINATED	ZZ	2

SIGN SHALL BE SINGLE-SIDED

*NOTE LED VIEWABLE SIGN PANEL AREA MAY DIFFER SLIGHTLY FROM NOMINAL DIMENSION SHOWN



TRAFFIC SIGNALS SCHEDULE OF QUANTITIES 31ST STREET AND IL 83 SOUTH RAMPS		
ITEM	UNIT	TOTAL
SIGN PANEL - TYPE 1	SQ FT	33
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	202
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	381
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	393
HANDHOLE	EACH	3
HEAVY-DUTY HANDHOLE	EACH	1
DOUBLE HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	170
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	738
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2655
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	171
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1420
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	338
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	920
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3
STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	20
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	33
DRILL EXISTING HANDHOLE	EACH	8
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	12
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	12
INDUCTIVE LOOP DETECTOR	EACH	6
DETECTOR LOOP, TYPE I	FOOT	480
LIGHT DETECTOR	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	1
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	10
REMOVE EXISTING CONCRETE FOUNDATION	EACH	7
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	554
LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	2
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	1
RADAR VEHICLE DETECTION SYSTEM, SINGLE APPROACH, STOP BAR AND FAR BACK	EACH	1
ELECTRIC CABLE IN CONDUIT, STREET NAME SIGN, NO. 14 3C, TYPE SOOW	FOOT	289
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	2
CONCRETE FOUNDATION, TYPE A 10-INCH DIAMETER	FOOT	4

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**


**MAST ARM MOUNTED STREET NAME SIGNS
AND SCHEDULE OF QUANTITIES
31ST STREET AND IL 83 SOUTH RAMPS**

SCALE: NONE SHEET 5 OF 5 SHEETS STA. TO STA.

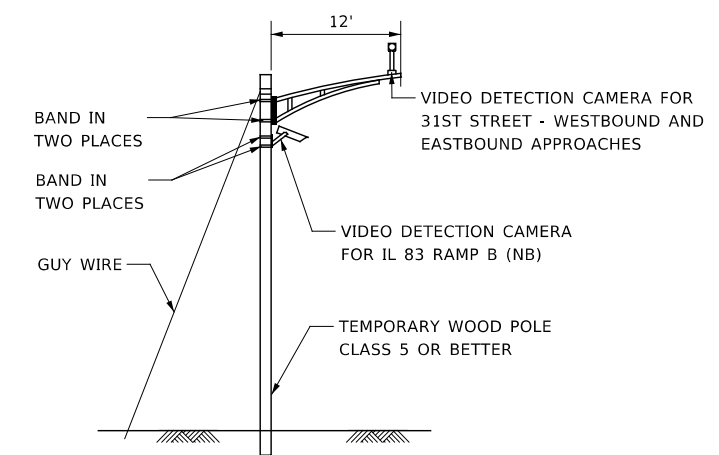
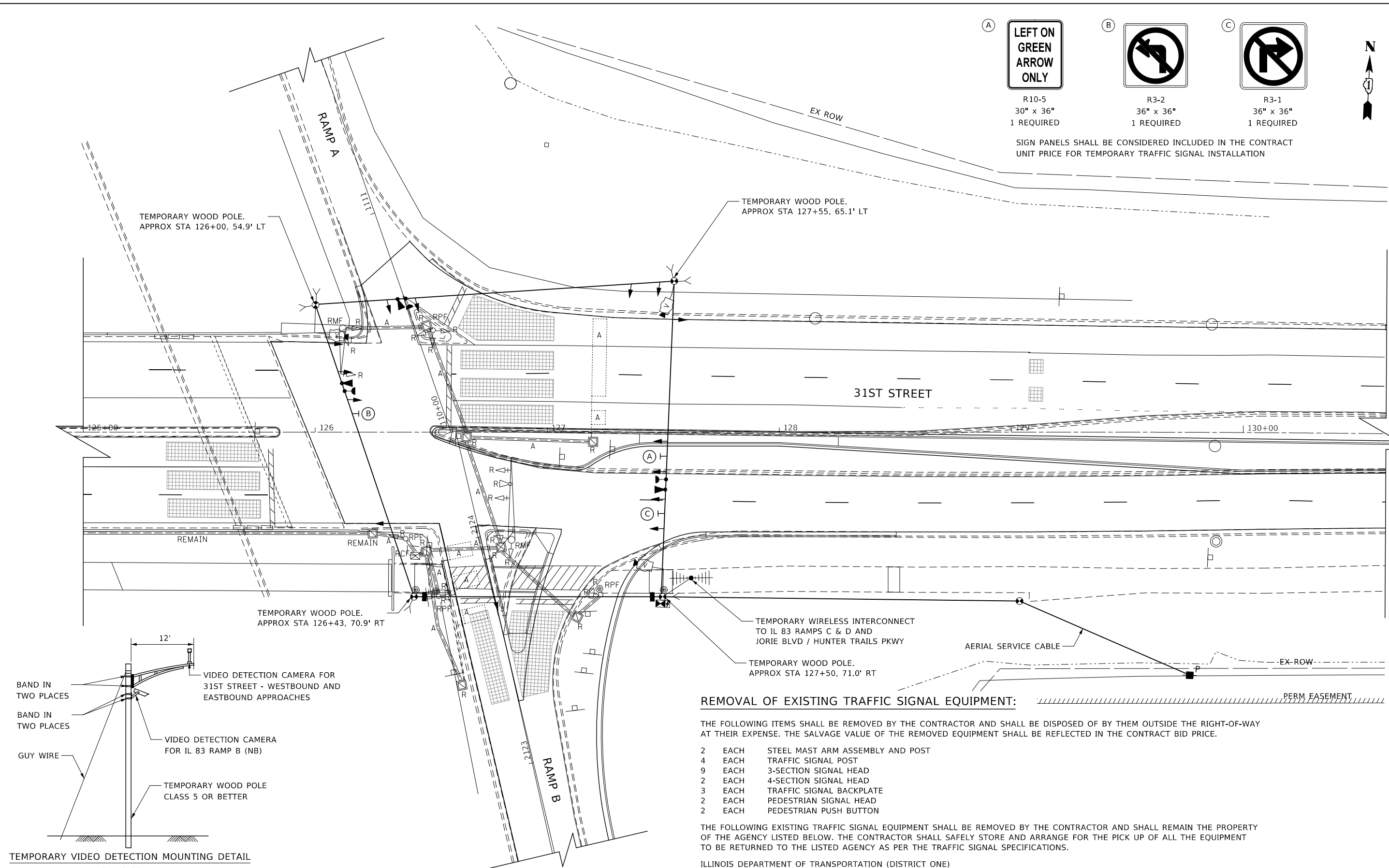
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	204
TSS-21		CONTRACT NO. 61G12		
		ILLINOIS	FED. AID PROJECT	

(A) **LEFT ON GREEN ARROW ONLY**
R10-5
30" x 36"
1 REQUIRED

(B) 
R3-2
36" x 36"
1 REQUIRED

(C) 
R3-1
36" x 36"
1 REQUIRED

SIGN PANELS SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE FOR TEMPORARY TRAFFIC SIGNAL INSTALLATION



NOTE: EACH VIDEO CAMERA SHALL BE MOUNTED ON A 12' ALUMINUM MAST ARM OR WOOD POLE AS INDICATED ABOVE. THIS WORK WILL BE INCLUDED IN THE COST FOR TEMPORARY TRAFFIC SIGNAL INSTALLATION.

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT:

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.

- 2 EACH STEEL MAST ARM ASSEMBLY AND POST
- 4 EACH TRAFFIC SIGNAL POST
- 9 EACH 3-SECTION SIGNAL HEAD
- 2 EACH 4-SECTION SIGNAL HEAD
- 3 EACH TRAFFIC SIGNAL BACKPLATE
- 2 EACH PEDESTRIAN SIGNAL HEAD
- 2 EACH PEDESTRIAN PUSH BUTTON

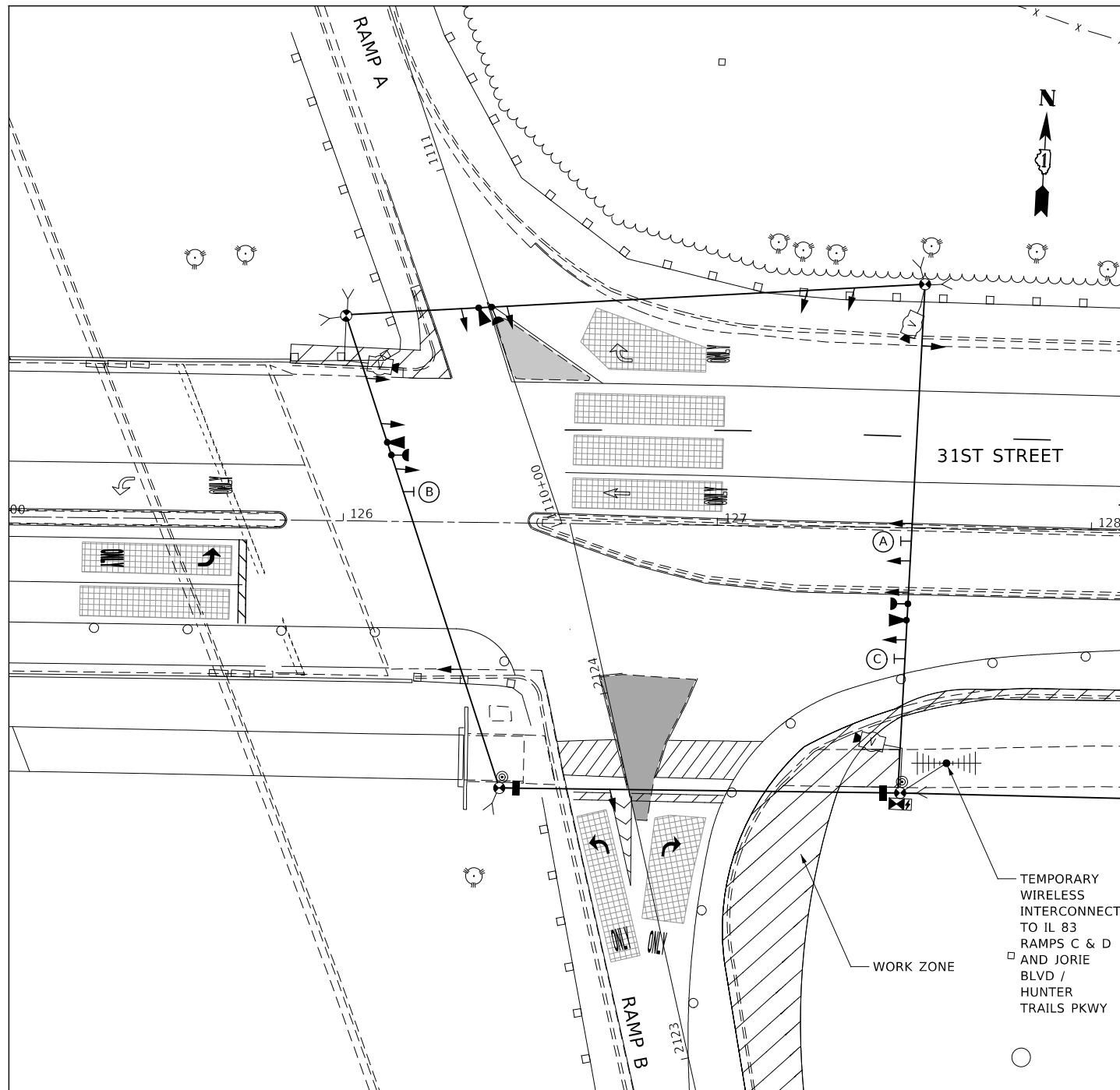
THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR THE PICK UP OF ALL THE EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

- ILLINOIS DEPARTMENT OF TRANSPORTATION (DISTRICT ONE)
- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- DUPAGE COUNTY DIVISION OF TRANSPORTATION
- 1 EACH LIGHT DETECTOR
 - 1 EACH EMERGENCY VEHICLE PREEMPTION SYSTEM (COMPLETE)

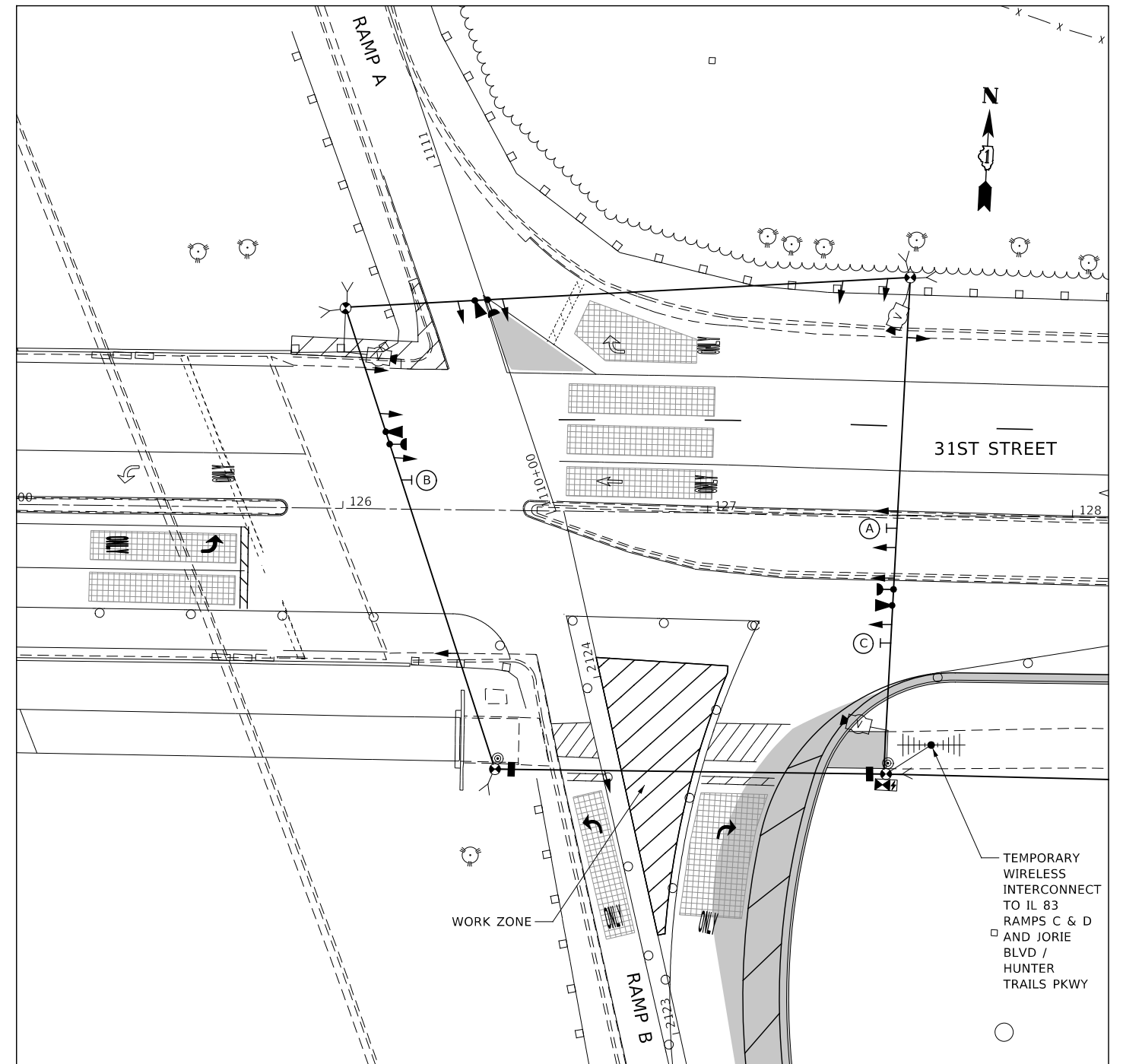


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	DESIGNED - D.M.S.	REVISED -	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	<p align="center">TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN 31ST STREET AND IL 83 NORTH RAMPS</p>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - D.M.S.	REVISED -			1467	14-00259-05-CH	DUPAGE	294	205
CHECKED - D.J.C.	REVISED -				TSS-22		CONTRACT NO. 61G12		
DATE - 09-01-2020	REVISED -				ILLINOIS FED. AID PROJECT				
				SCALE: AS SHOWN	SHEET 1 OF 4 SHEETS	STA.	TO STA.		



TEMPORARY TRAFFIC SIGNALS
STAGE 1



TEMPORARY TRAFFIC SIGNALS
STAGE 1A

- | | | | | | |
|-----|----------------------------------|-----|---------------------------------|-----|---------------------------------|
| (A) | | (B) | | (C) | |
| | R10-5
30" x 36"
1 REQUIRED | | R3-2
36" x 36"
1 REQUIRED | | R3-1
36" x 36"
1 REQUIRED |

SIGN PANELS SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE FOR TEMPORARY TRAFFIC SIGNAL INSTALLATION



TS 555



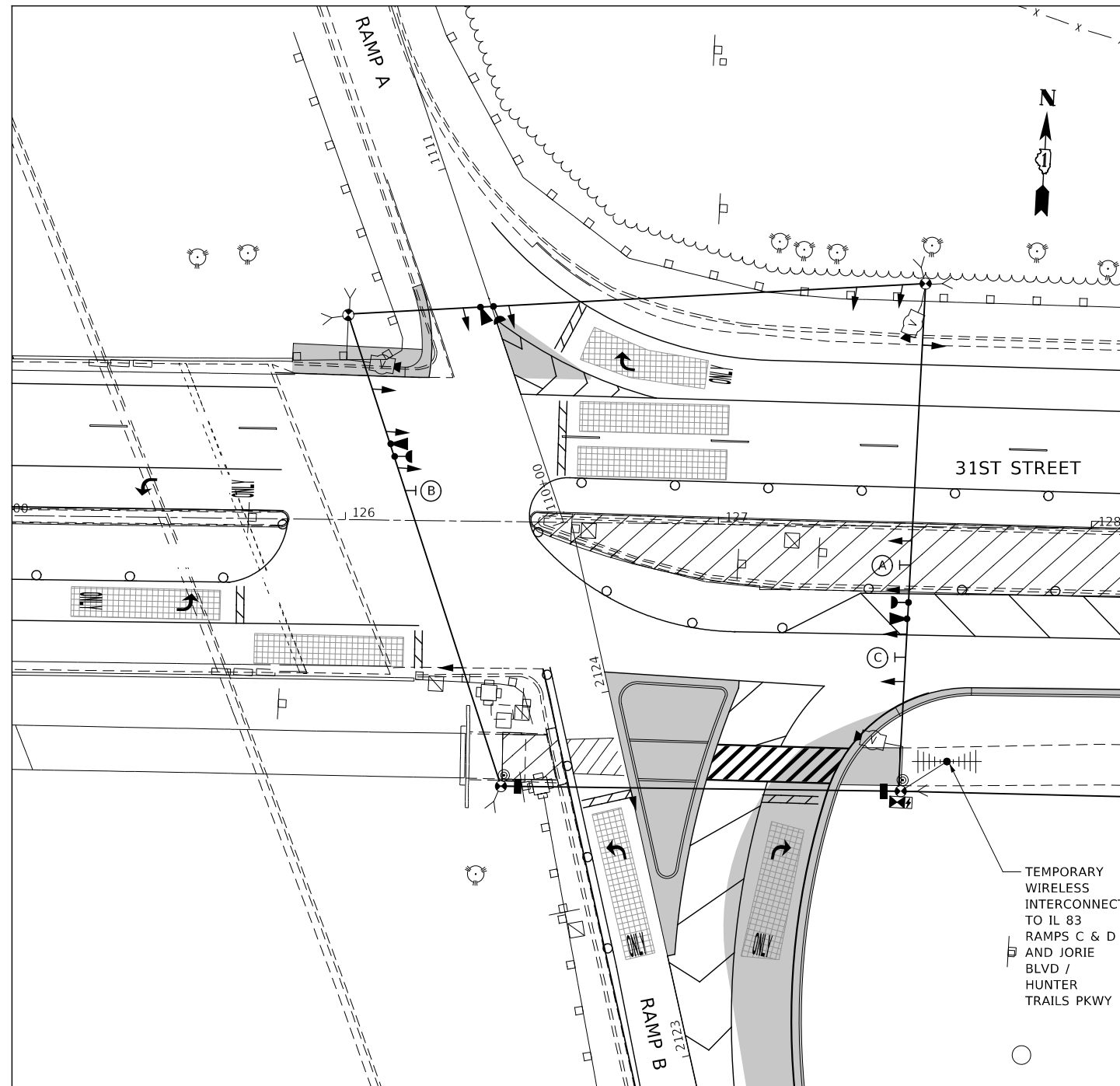
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DRAWN -	D.M.S.	REVISED -	
CHECKED -	D.J.C.	REVISED -	
DATE -	09-01-2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION




TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING
TRAFFIC SIGNAL EQUIPMENT PLAN - STAGE 1 AND STAGE 1A
31ST STREET AND IL 83 NORTH RAMPS

SCALE: AS SHOWN SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	206
TSS-23		CONTRACT NO. 61G12		
ILLINOIS FED. AID PROJECT				



TEMPORARY TRAFFIC SIGNALS
STAGE 2

- | | | | | | |
|-----|---|-----|---|-----|---|
| (A) |  | (B) |  | (C) |  |
| | R10-5
30" x 36"
1 REQUIRED | | R3-2
36" x 36"
1 REQUIRED | | R3-1
36" x 36"
1 REQUIRED |

SIGN PANELS SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE FOR TEMPORARY TRAFFIC SIGNAL INSTALLATION

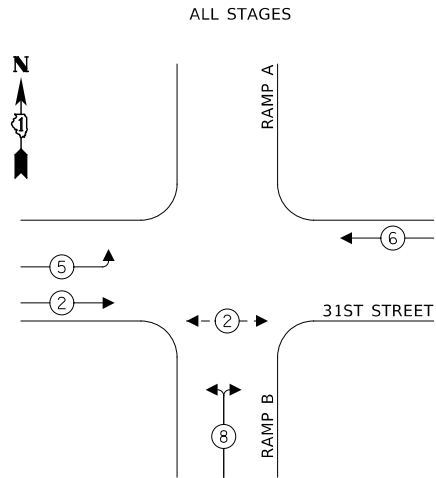


TS 555

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CHECKED -	D.J.C.	REVISED -	
DATE -	09-01-2020	REVISED -	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	207
TSS-24		CONTRACT NO. 61G12		
		ILLINOIS FED. AID PROJECT		

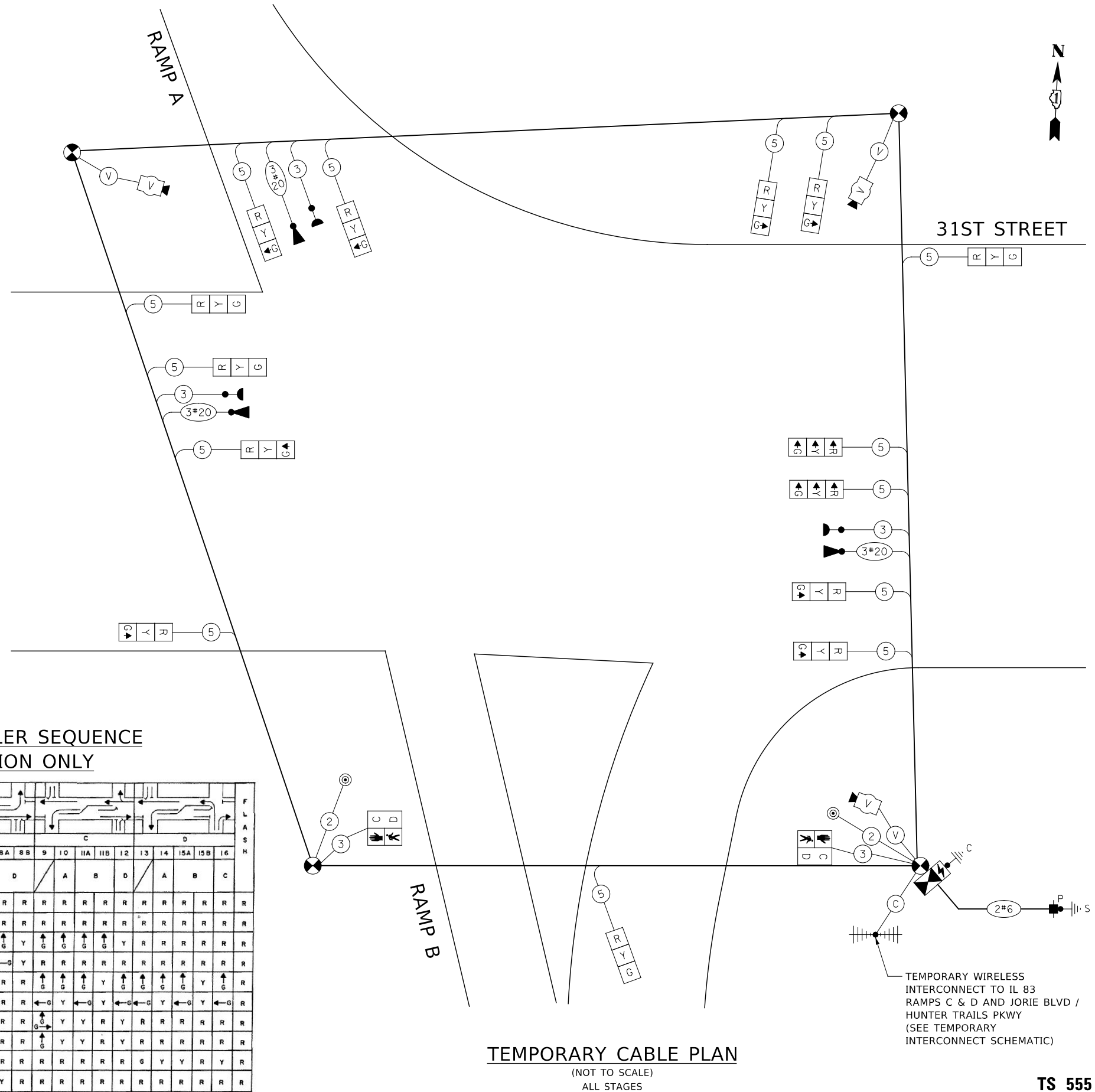
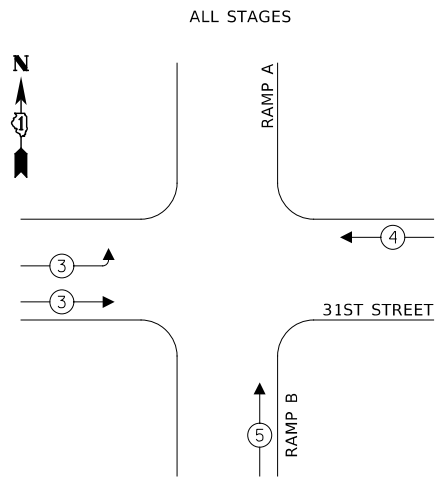
TEMPORARY CONTROLLER SEQUENCE



LEGEND:

- ←(*) PROTECTED PHASE
- ←(*)- PROTECTED/PERMITTED PHASE
- ←(*)→ PEDESTRIAN PHASE

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



EXISTING CONTROLLER SEQUENCE FOR INFORMATION ONLY

MOVEMENT	PHASE																			
	A				B				C				D							
INTERVAL	1	2	3	4A	4B	5	6	7	8A	8B	9	10	11A	11B	12	13	14	15A	15B	16
CHANGE TO	B	C	D	A	C	D	A	B	D	A	B	C								
31st ST. E/B NEAR RIGHT AND FAR RIGHT SIGNALS AT RAMPS C & A	↑G	Y	Y	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
31st ST. E/B FAR LEFT SIGNAL AT RAMPS C & A	↑G	Y	Y	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
31st ST. E/B NEAR RIGHT, FAR RIGHT AND MAST ARM SIGNALS AT RAMPS B & D	↑G	↑G	↑G	↑G	Y	↑G	↑G	↑G	↑G	Y	↑G	↑G	↑G	↑G	Y	R	R	R	R	R
31st ST. E/B MEDIAN AND FAR LEFT SIGNALS AT RAMPS B & D	←G	←G	Y	←G	Y	←G	←G	Y	←G	Y	R	R	R	R	R	R	R	R	R	R
31st ST. W/B NEAR RIGHT, FAR RIGHT AND MAST ARM SIGNALS AT RAMPS A & C	↑G	Y	↑G	↑G	↑G	R	R	R	R	R	↑G	↑G	↑G	Y	↑G	↑G	↑G	Y	↑G	R
31st ST. W/B MEDIAN AND FAR LEFT SIGNALS AT RAMPS A & C	R	R	R	R	R	R	R	R	R	R	←G	Y	←G	Y	←G	Y	←G	Y	←G	R
31st ST. W/B NEAR RIGHT AND FAR RIGHT SIGNALS AT RAMPS D & B	R	R	R	R	R	R	R	R	R	R	↑G	Y	Y	R	Y	R	R	R	R	R
31st ST. W/B FAR LEFT SIGNAL AT RAMPS D & B	R	R	R	R	R	R	R	R	R	R	↑G	Y	Y	R	Y	R	R	R	R	R
ILL. 83 OFF - RAMP B SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
ILL. 83 OFF - RAMP A SIGNALS	R	R	R	R	R	G	Y	Y	Y	R	R	R	R	R	R	R	R	R	R	R

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	14	11	50	77.0
(YELLOW)	14	20	5	14.0
(GREEN)	14	12	45	75.6
PERMISSIVE ARROW	-	10	10	-
PED. SIGNAL	2	20	100	40.0
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	1	150	100	150
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	310	50	-
			TOTAL =	481.6

ENERGY COSTS TO:
 VILLAGE OF OAK BROOK
 3003 JORIE BOULEVARD
 OAK BROOK, IL 60523

ENERGY SUPPLY: CONTACT: ERIC JOSTES
 PHONE: (630) 437-2927
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: ---

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

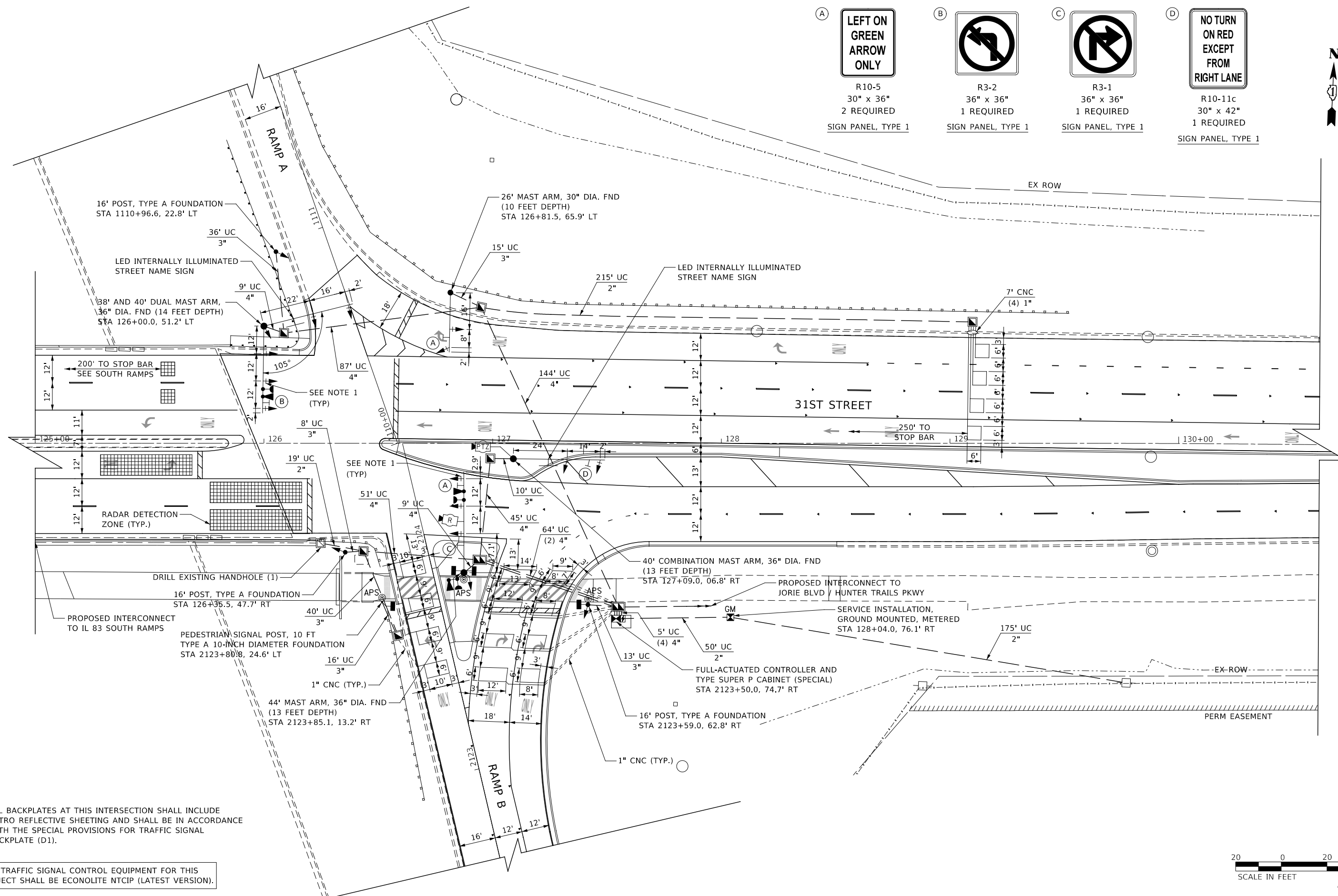
TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM, AND
 TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE - STAGE 1 & STAGE 2
 31ST STREET AND IL 83 NORTH RAMPS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	208
TSS-25		CONTRACT NO. 61G12		
SCALE: AS SHOWN		ILLINOIS FED. AID PROJECT		

KNIGHT
 Engineers & Architects

TS 555

- (A)  R10-5
30" x 36"
2 REQUIRED
SIGN PANEL, TYPE 1
- (B)  R3-2
36" x 36"
1 REQUIRED
SIGN PANEL, TYPE 1
- (C)  R3-1
36" x 36"
1 REQUIRED
SIGN PANEL, TYPE 1
- (D)  NO TURN ON RED EXCEPT FROM RIGHT LANE
R10-11c
30" x 42"
1 REQUIRED
SIGN PANEL, TYPE 1



NOTES

1. ALL BACKPLATES AT THIS INTERSECTION SHALL INCLUDE RETRO REFLECTIVE SHEETING AND SHALL BE IN ACCORDANCE WITH THE SPECIAL PROVISIONS FOR TRAFFIC SIGNAL BACKPLATE (D1).

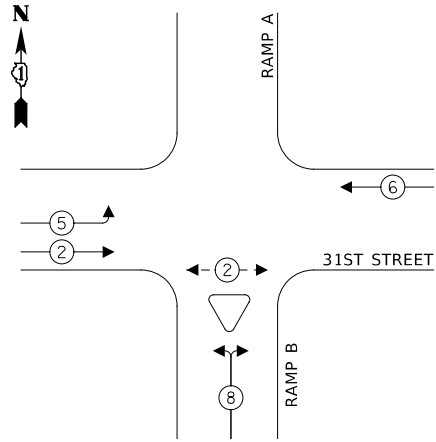
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE ECONOLITE NTCIP (LATEST VERSION).



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	DRAWN - D.M.S.	REVISED -			1467	14-00259-05-CH	DUPAGE	294	209
CHECKED - D.J.C.	REVISED -	SCALE: AS SHOWN SHEET 1 OF 4 SHEETS STA. TO STA.			TSS-26		CONTRACT NO. 61G12		
DATE - 09-01-2020	REVISED -				ILLINOIS FED. AID PROJECT				

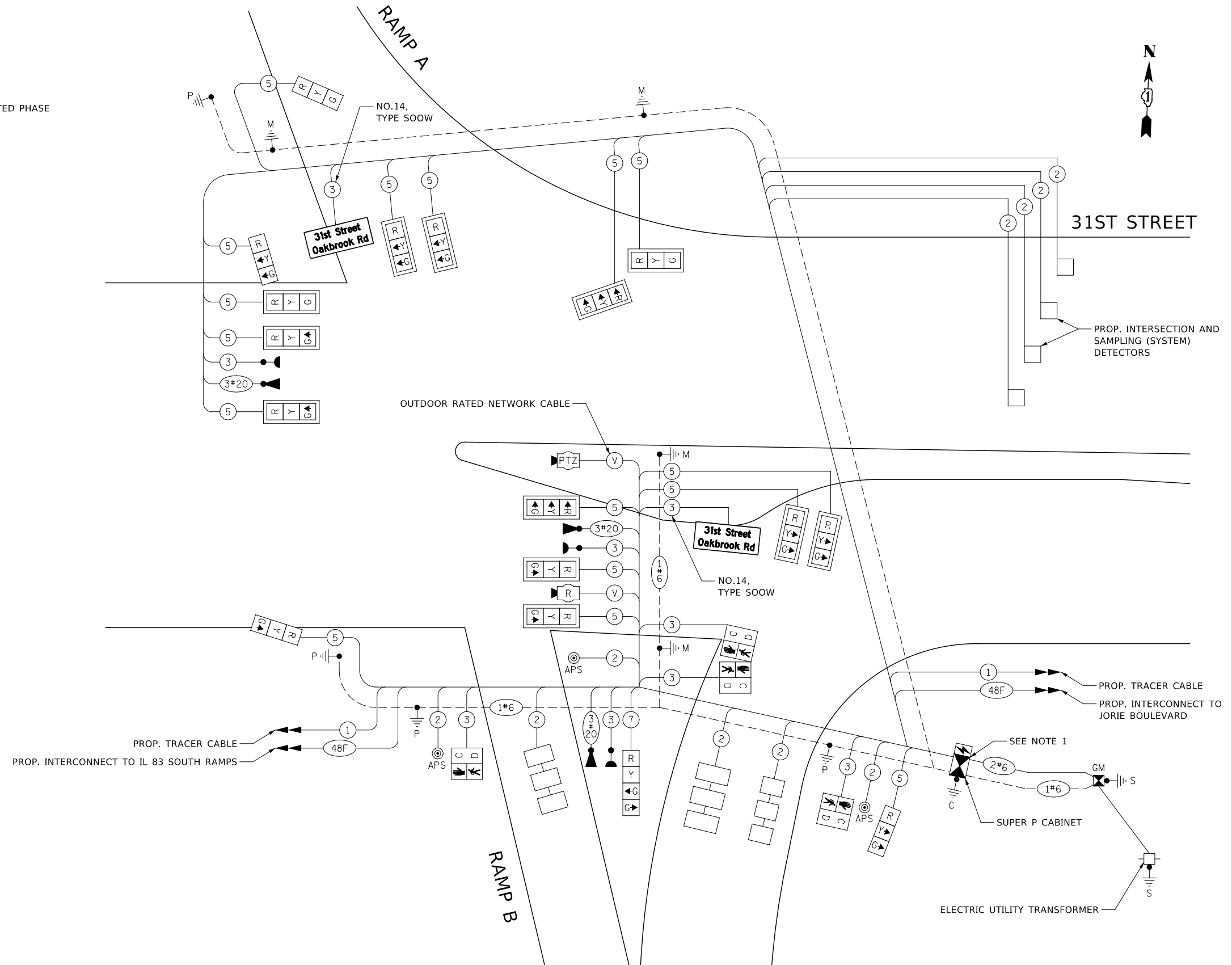
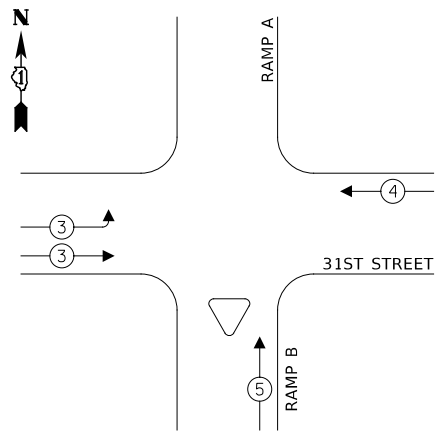
PROPOSED CONTROLLER SEQUENCE



LEGEND:

- ←(*) PROTECTED PHASE
- ←(*)- PROTECTED/PERMITTED PHASE
- ←(*)→ PEDESTRIAN PHASE

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



CABLE PLAN
(NOT TO SCALE)

NOTES

1. INSTALL A LAYER II (DATALINK) SWITCH IN THE TRAFFIC SIGNAL CABINET TO CONNECT THE PTZ CAMERA TO THE DUDOT NETWORK.

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	16	11	50	88.0
(YELLOW)	16	20	5	16.0
(GREEN)	17	12	45	91.8
PERMISSIVE ARROW	-	10	10	-
PED. SIGNAL	4	20	100	80.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
RADAR SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	2	120	50	120
LUMINAIRE	-	310	50	-
			TOTAL =	670.8

ENERGY COSTS TO:
 VILLAGE OF OAK BROOK
 3003 JORIE BOULEVARD
 OAK BROOK, IL 60523

ENERGY SUPPLY: CONTACT: ERIC JOSTES
 PHONE: (630) 437-2927
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: ---

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE ECONOLITE NTCIP (LATEST VERSION).

DESIGNED -	D.M.S.	REVISED -	
DRAWN -	D.M.S.	REVISED -	
CHECKED -	D.J.C.	REVISED -	
DATE -	09-01-2020	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

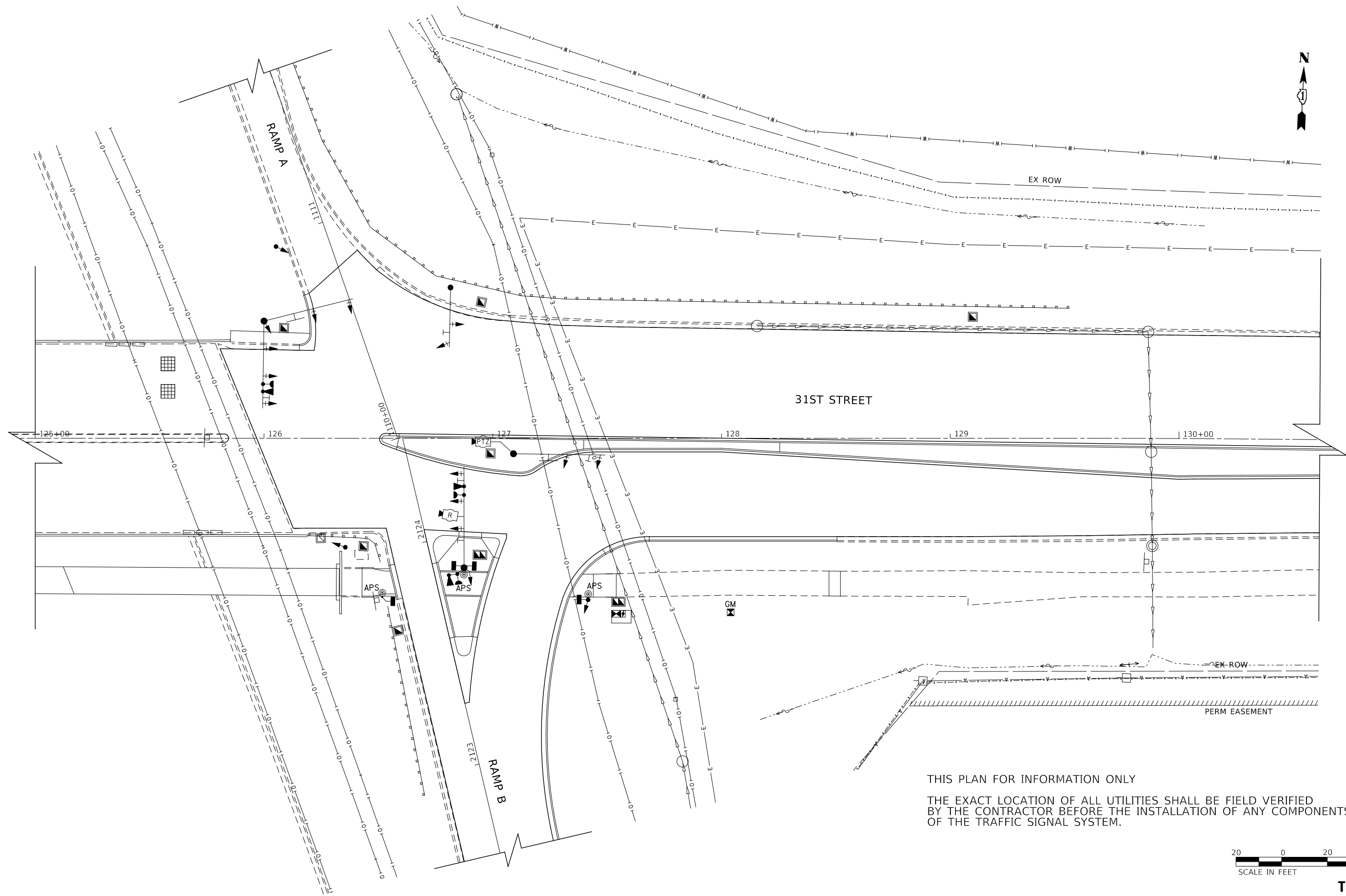
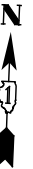
**TRAFFIC SIGNAL CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
31ST STREET AND IL 83 NORTH RAMPS**

SCALE: AS SHOWN SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	210
TSS-27		CONTRACT NO. 61G12		
ILLINOIS FED. AID PROJECT				

KNIGHT
Engineers & Architects

TS 555



THIS PLAN FOR INFORMATION ONLY
 THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED
 BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY COMPONENTS
 OF THE TRAFFIC SIGNAL SYSTEM.



TS 555



DESIGNED -	D.M.S.	REVISED -	
DRAWN -	D.M.S.	REVISED -	
CHECKED -	D.J.C.	REVISED -	
DATE -	09-01-2020	REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EXISTING UTILITIES PLAN
 31ST STREET AND IL 83 NORTH RAMPS**

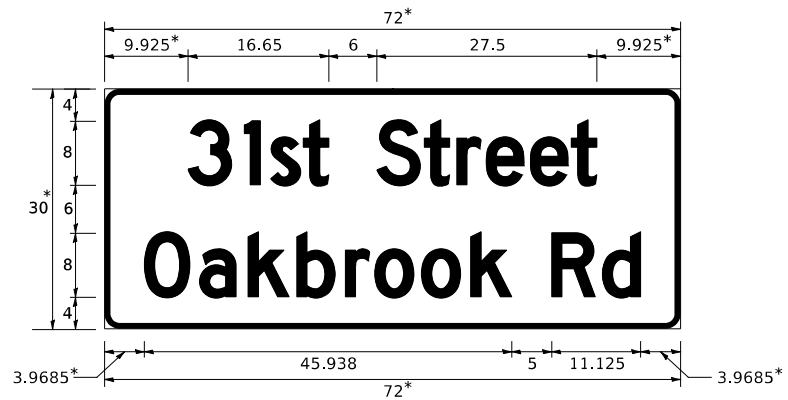
SCALE: AS SHOWN SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	211
TSS-28		CONTRACT NO. 61G12		
ILLINOIS FED. AID PROJECT				

31ST STREET AND IL 83 NORTH RAMPS INTERSECTION

LED ILLUMINATED STREET NAME SIGN

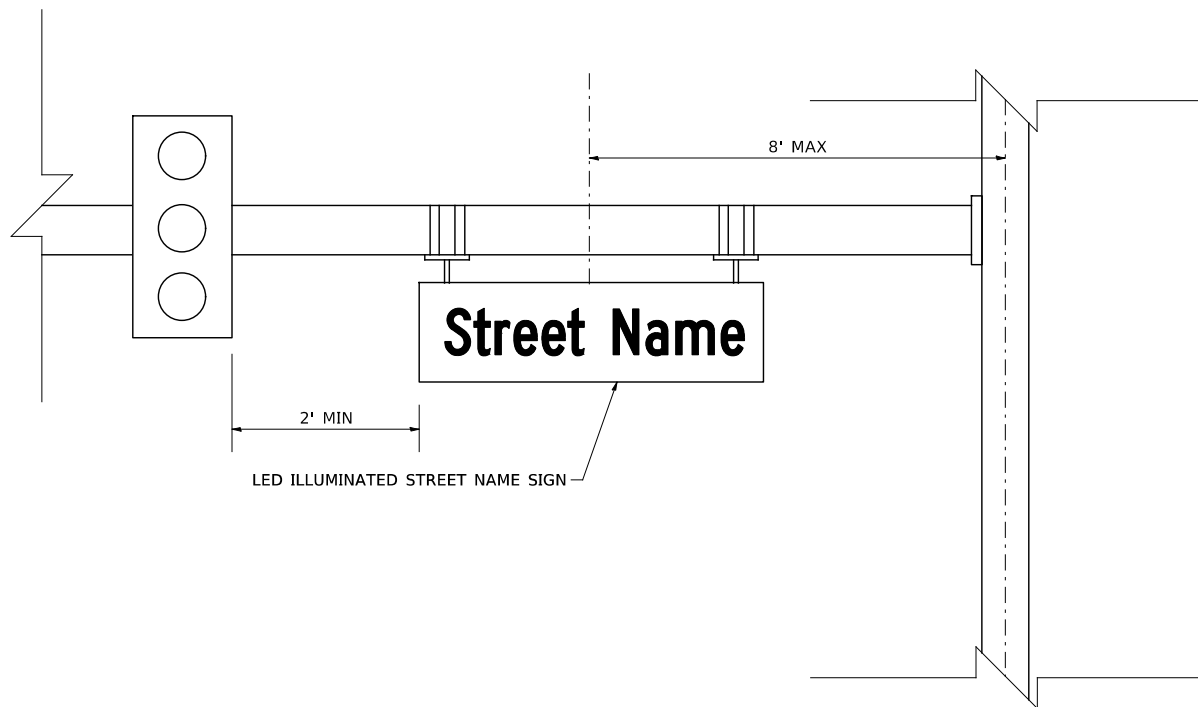
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	INTERSECTION QTY. REQUIRED
D	15.0	LED ILLUMINATED	ZZ	2

SIGN SHALL BE SINGLE-SIDED

*NOTE LED VIEWABLE SIGN PANEL AREA MAY DIFFER SLIGHTLY FROM NOMINAL DIMENSION SHOWN



TRAFFIC SIGNALS SCHEDULE OF QUANTITIES
31ST STREET AND IL 83 NORTH RAMPS

ITEM	UNIT	TOTAL
SIGN PANEL - TYPE 1	SQ FT	42
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	459
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	138
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	493
HANDHOLE	EACH	6
DOUBLE HANDHOLE	EACH	2
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	397
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1187
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3873
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	127
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1827
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	234
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	845
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3
STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 38 FT. AND 40 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 40 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	10
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	40
DRILL EXISTING HANDHOLE	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	12
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	12
INDUCTIVE LOOP DETECTOR	EACH	7
DETECTOR LOOP, TYPE I	FOOT	663
LIGHT DETECTOR	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	1
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	7
REMOVE EXISTING CONCRETE FOUNDATION	EACH	7
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	643
LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	2
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	231
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATA LINK) SWITCH	EACH	1
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	1
RADAR VEHICLE DETECTION SYSTEM, SINGLE APPROACH, STOP BAR AND FAR BACK	EACH	1
ELECTRIC CABLE IN CONDUIT, STREET NAME SIGN, NO. 14 3C, TYPE SOOW	FOOT	503
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	3
CONCRETE FOUNDATION, TYPE A 10-INCH DIAMETER	FOOT	4

TS 555



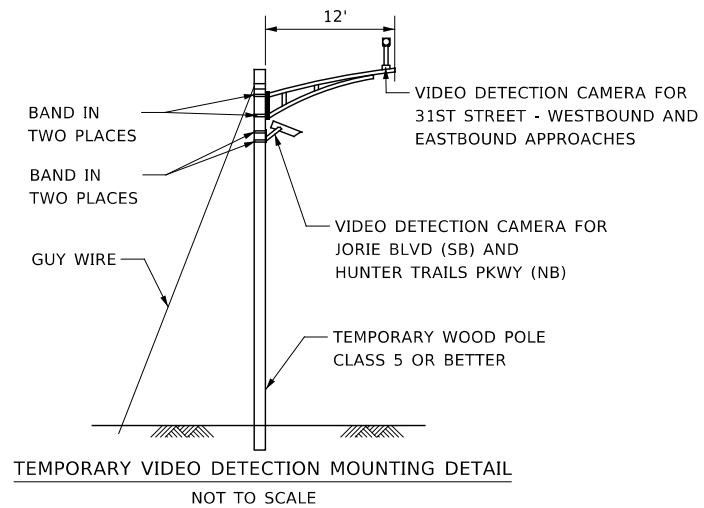
DESIGNED -	D.M.S.	REVISED -	
DRAWN -	D.M.S.	REVISED -	
CHECKED -	D.J.C.	REVISED -	
DATE -	09-01-2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS
AND SCHEDULE OF QUANTITIES
31ST STREET AND IL 83 NORTH RAMPS

SCALE: NONE SHEET 4 OF 4 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	212
TSS-29		CONTRACT NO. 61G12		
ILLINOIS		FED. AID PROJECT		



TEMPORARY VIDEO DETECTION MOUNTING DETAIL
NOT TO SCALE

NOTE: EACH VIDEO CAMERA SHALL BE MOUNTED ON A 12' ALUMINUM MAST ARM OR WOOD POLE AS INDICATED ABOVE. THIS WORK WILL BE INCLUDED IN THE COST FOR TEMPORARY TRAFFIC SIGNAL INSTALLATION.

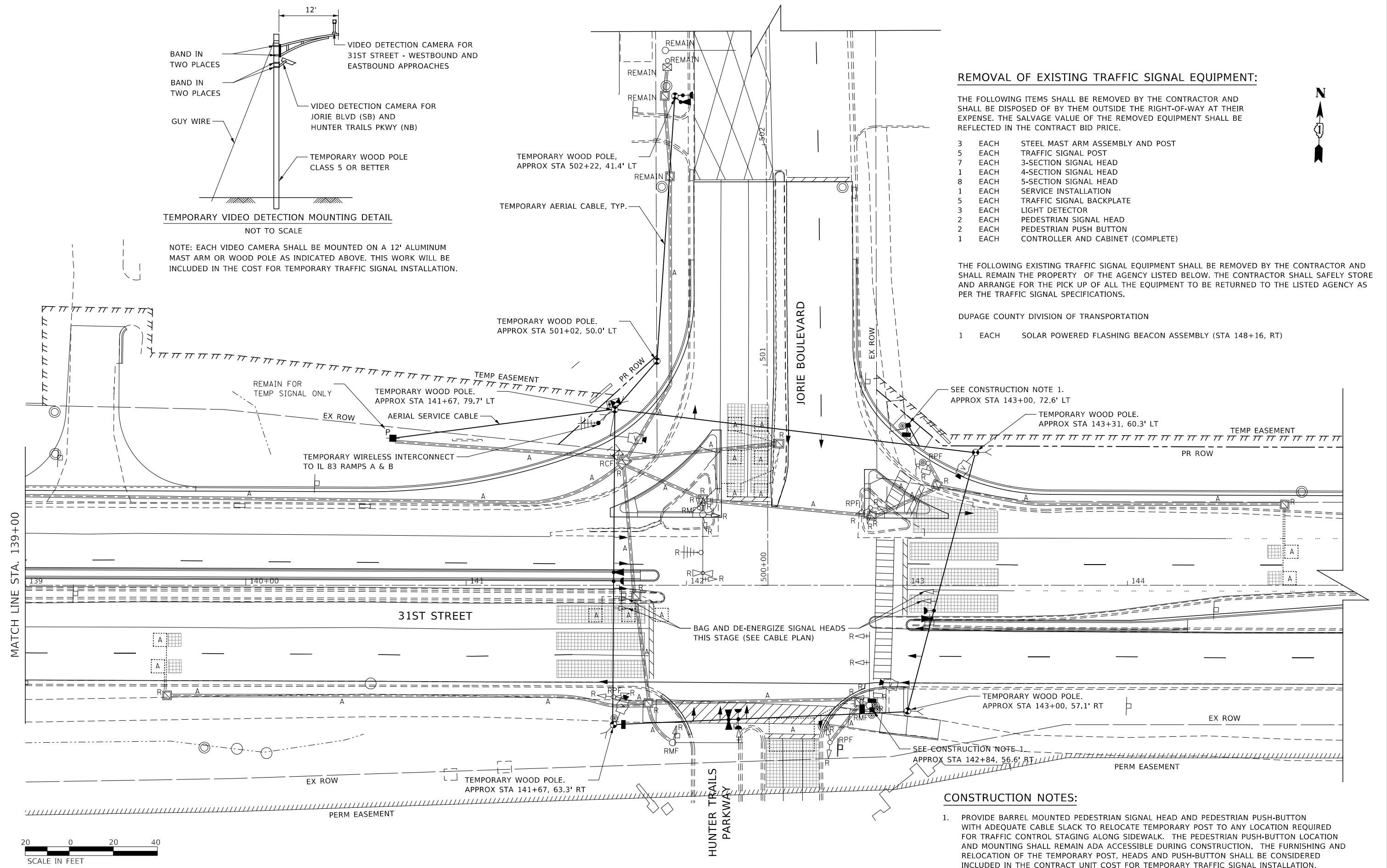
REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT:

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.

- 3 EACH STEEL MAST ARM ASSEMBLY AND POST
- 5 EACH TRAFFIC SIGNAL POST
- 7 EACH 3-SECTION SIGNAL HEAD
- 1 EACH 4-SECTION SIGNAL HEAD
- 8 EACH 5-SECTION SIGNAL HEAD
- 1 EACH SERVICE INSTALLATION
- 5 EACH TRAFFIC SIGNAL BACKPLATE
- 3 EACH LIGHT DETECTOR
- 2 EACH PEDESTRIAN SIGNAL HEAD
- 2 EACH PEDESTRIAN PUSH BUTTON
- 1 EACH CONTROLLER AND CABINET (COMPLETE)

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 AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

- DUPAGE COUNTY DIVISION OF TRANSPORTATION
- 1 EACH SOLAR POWERED FLASHING BEACON ASSEMBLY (STA 148+16, RT)



CONSTRUCTION NOTES:

1. PROVIDE BARREL MOUNTED PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSH-BUTTON WITH ADEQUATE CABLE SLACK TO RELOCATE TEMPORARY POST TO ANY LOCATION REQUIRED FOR TRAFFIC CONTROL STAGING ALONG SIDEWALK. THE PEDESTRIAN PUSH-BUTTON LOCATION AND MOUNTING SHALL REMAIN ADA ACCESSIBLE DURING CONSTRUCTION. THE FURNISHING AND RELOCATION OF THE TEMPORARY POST, HEADS AND PUSH-BUTTON SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT COST FOR TEMPORARY TRAFFIC SIGNAL INSTALLATION.



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Engineers & Architects

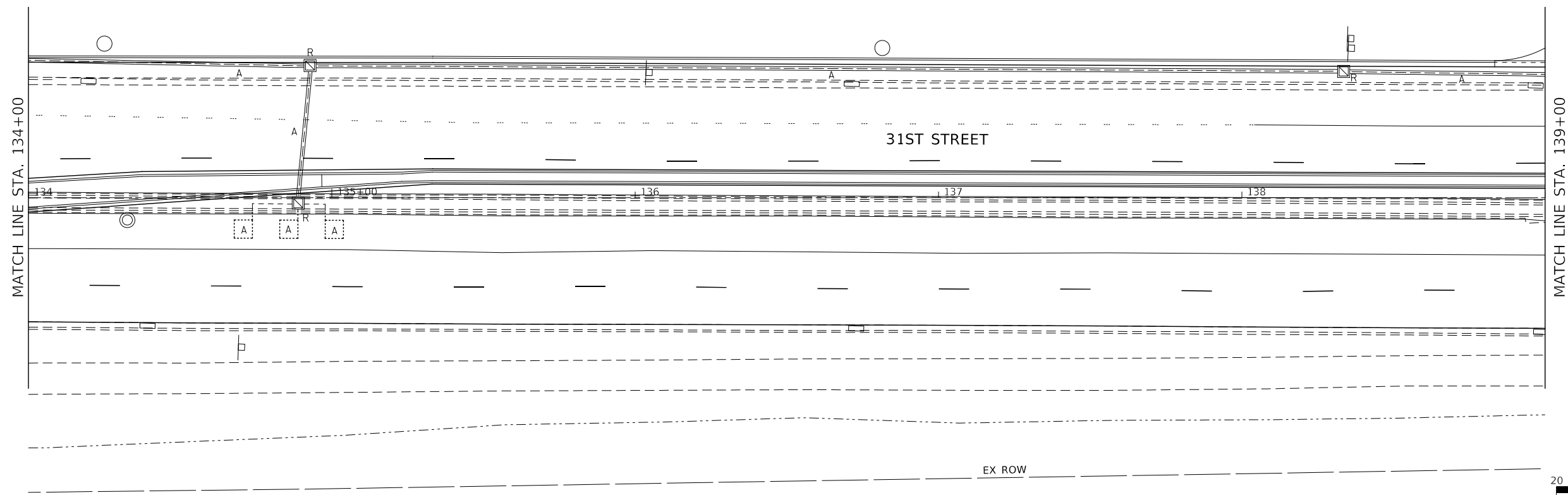
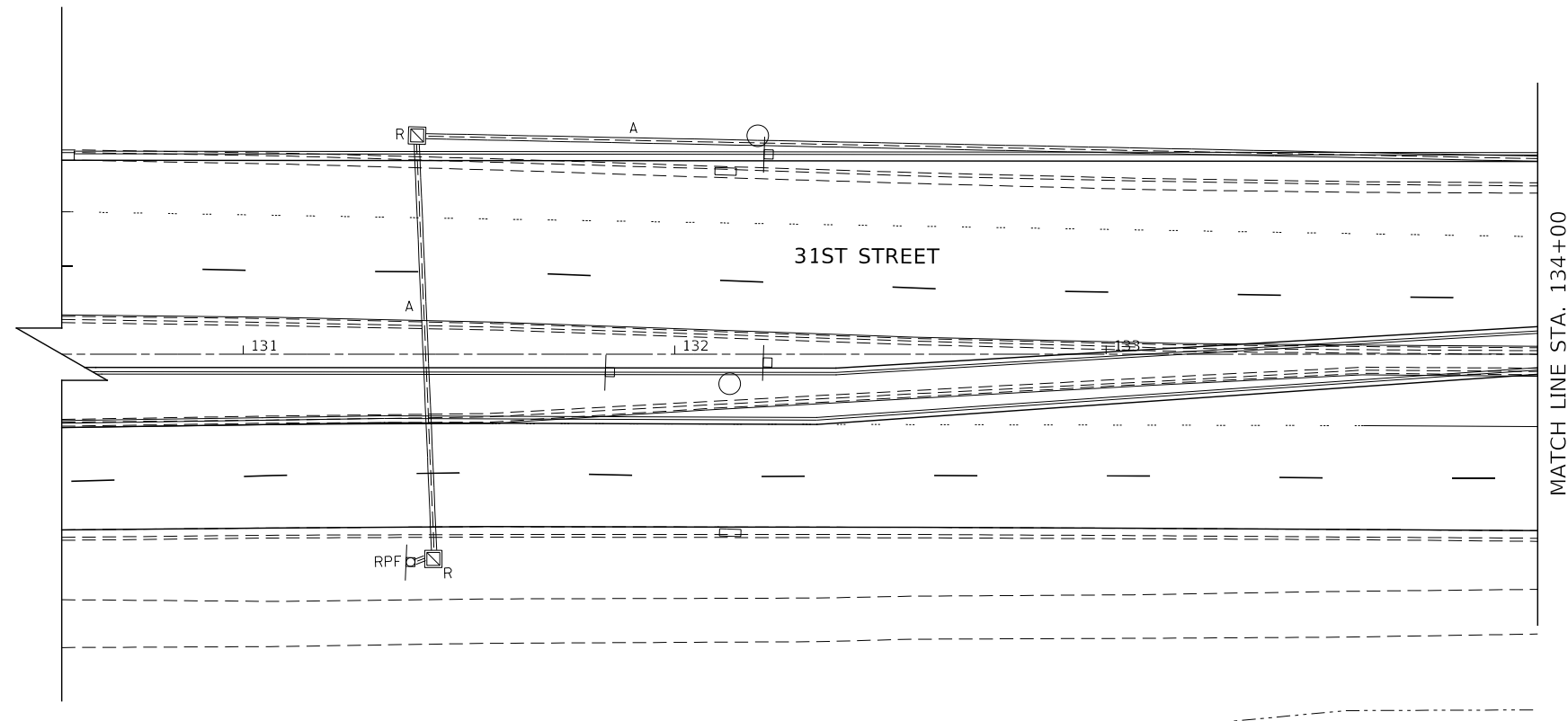
DESIGNED -	D.M.S.	REVISED -	
DRAWN -	D.M.S.	REVISED -	
CHECKED -	D.J.C.	REVISED -	
DATE -	09-01-2020	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
31ST STREET AND JORIE BOULEVARD / HUNTER TRAILS PARKWAY**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	213
TSS-30			CONTRACT NO. 61G12	
ILLINOIS FED. AID PROJECT				

SCALE: AS SHOWN SHEET 1 OF 4 SHEETS STA. TO STA.



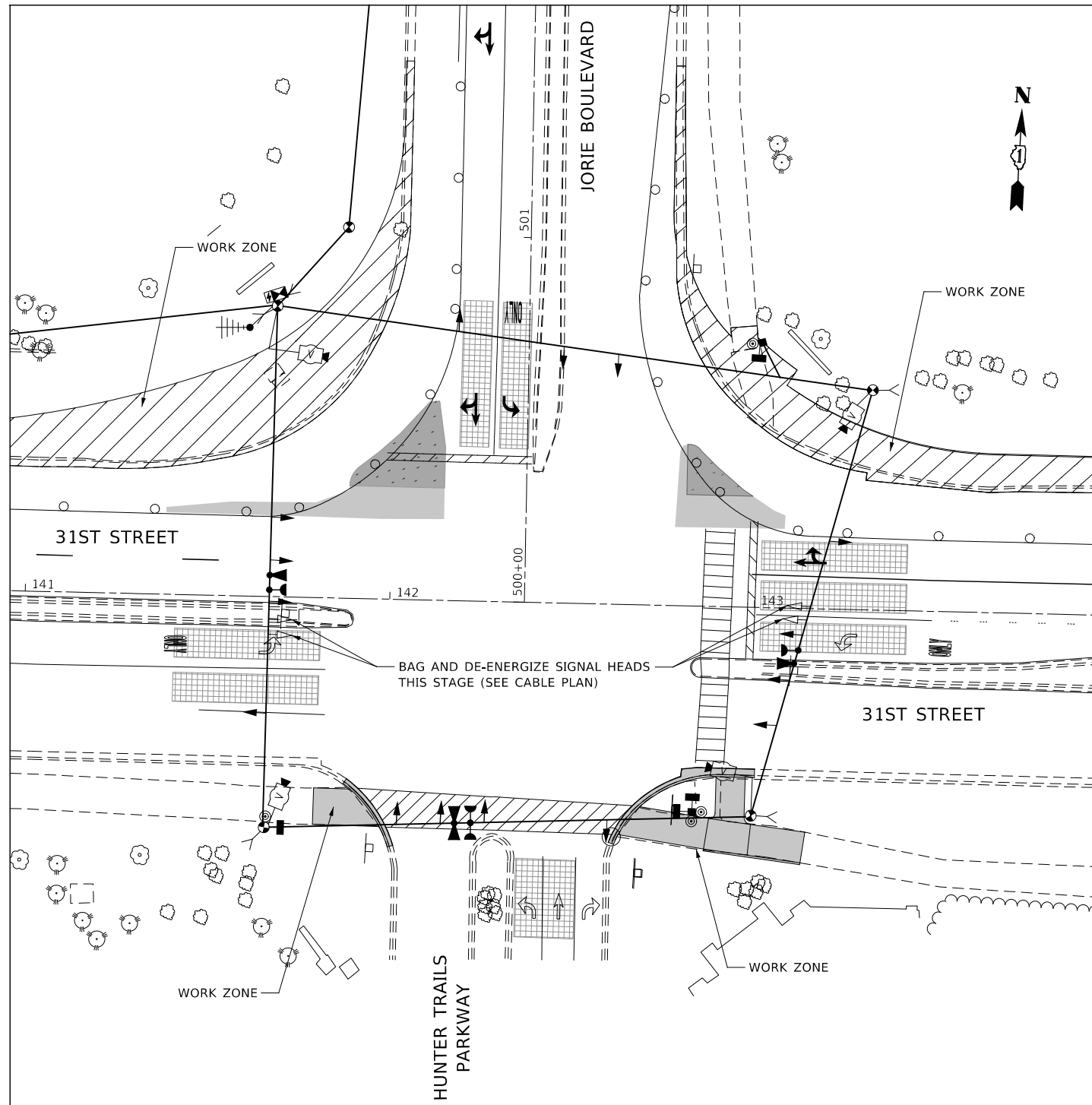
DESIGNED -	D.M.S.	REVISED -	
DRAWN -	D.M.S.	REVISED -	
CHECKED -	D.J.C.	REVISED -	
DATE -	09-01-2020	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

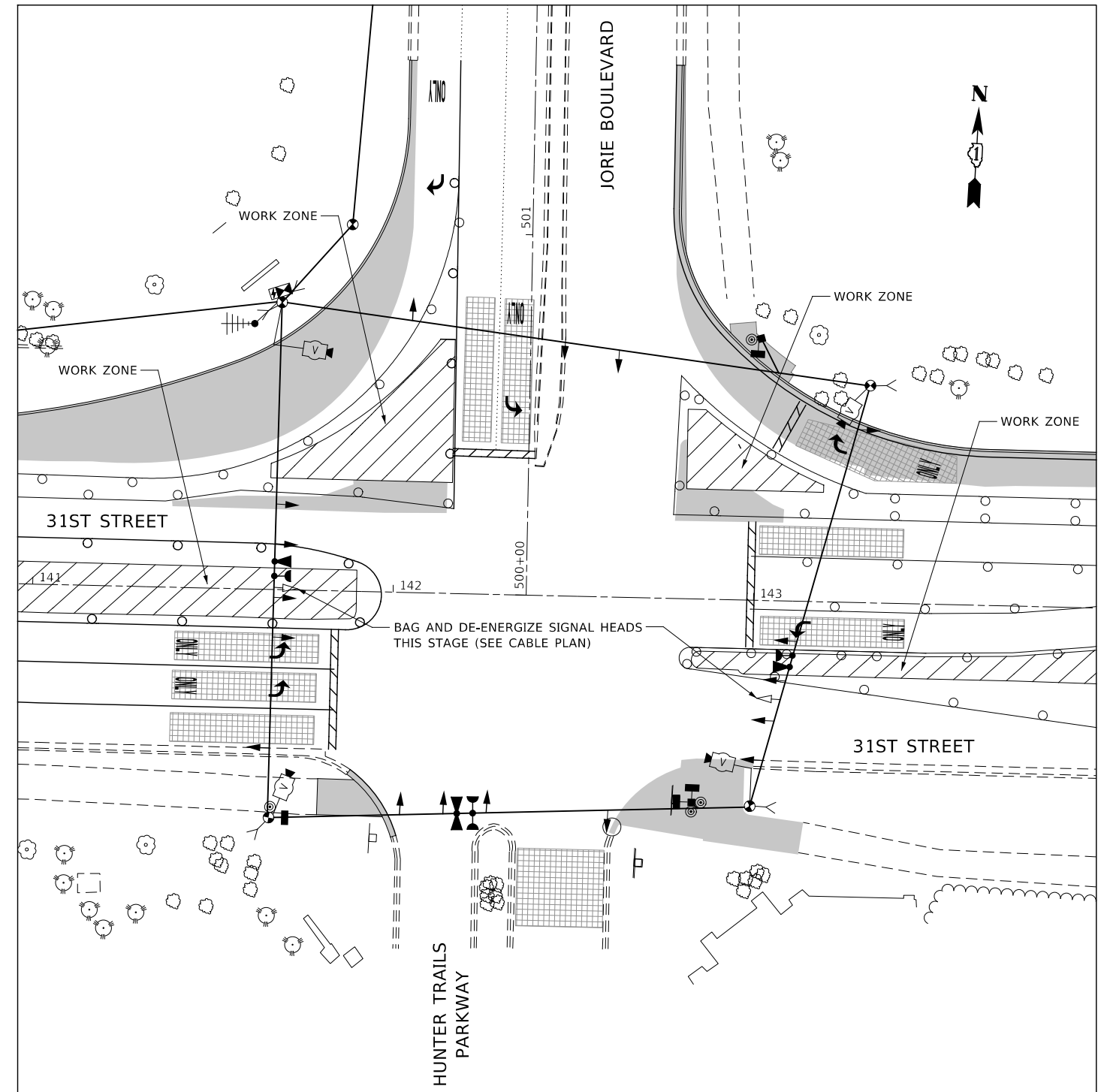
**TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING
TRAFFIC SIGNAL EQUIPMENT PLAN
31ST STREET AND JORIE BOULEVARD / HUNTER TRAILS PARKWAY**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	214
TSS-31		CONTRACT NO. 61G12		
		ILLINOIS	FED. AID PROJECT	

SCALE: AS SHOWN SHEET 2 OF 4 SHEETS STA. TO STA.



TEMPORARY TRAFFIC SIGNALS
STAGE 1, 1A



TEMPORARY TRAFFIC SIGNALS
STAGE 2



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DESIGNED -	D.M.S.	REVISED -	
DRAWN -	D.M.S.	REVISED -	
CHECKED -	D.J.C.	REVISED -	
DATE -	09-01-2020	REVISED -	

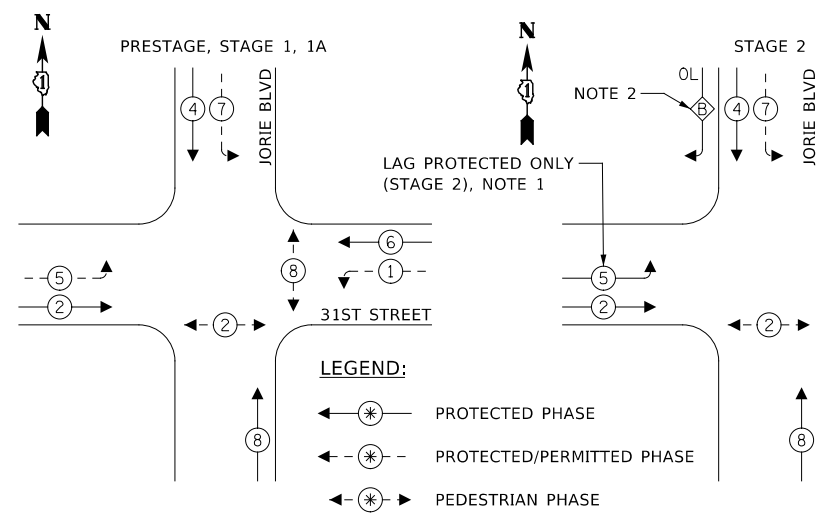
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING
TRAFFIC SIGNAL EQUIPMENT PLAN - STAGES 1, 1A, 2
31ST STREET AND JORIE BOULEVARD / HUNTER TRAILS PARKWAY

SCALE: AS SHOWN SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	215
TSS-32		CONTRACT NO. 61G12		
ILLINOIS FED. AID PROJECT				

TEMPORARY CONTROLLER SEQUENCE



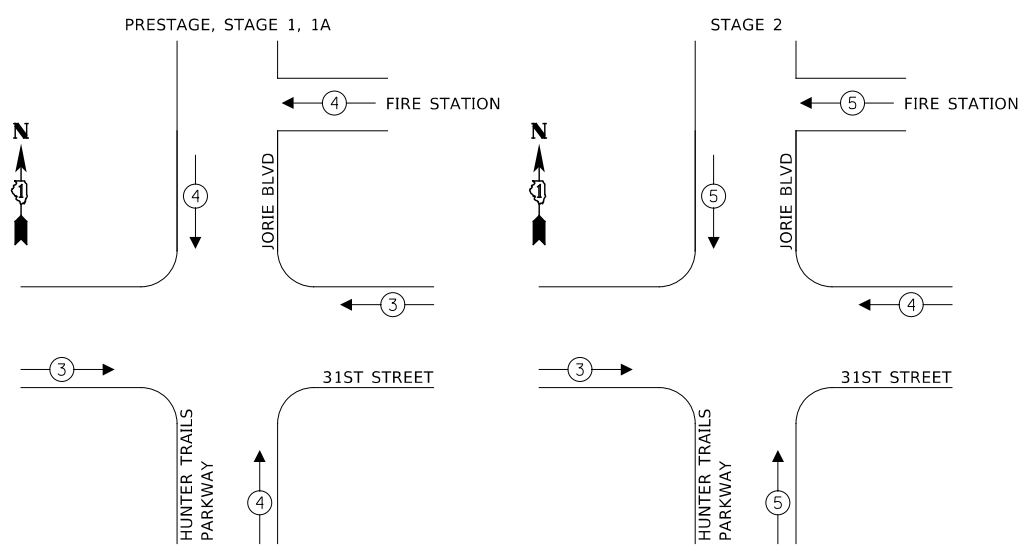
NOTES

- DURING STAGE 2 ONLY, PHASE 1 AND PHASE 5 SHALL NOT TIME CONCURRENTLY. PHASE 5 WILL LAG AND PHASE 1 WILL LEAD.
- DURING STAGE 2 ONLY, PROVIDE CONTINUOUS RIGHT TURN OVERLAP. TERMINATE OVERLAP DURING EMERGENCY VEHICLE PREEMPTION SEQUENCE

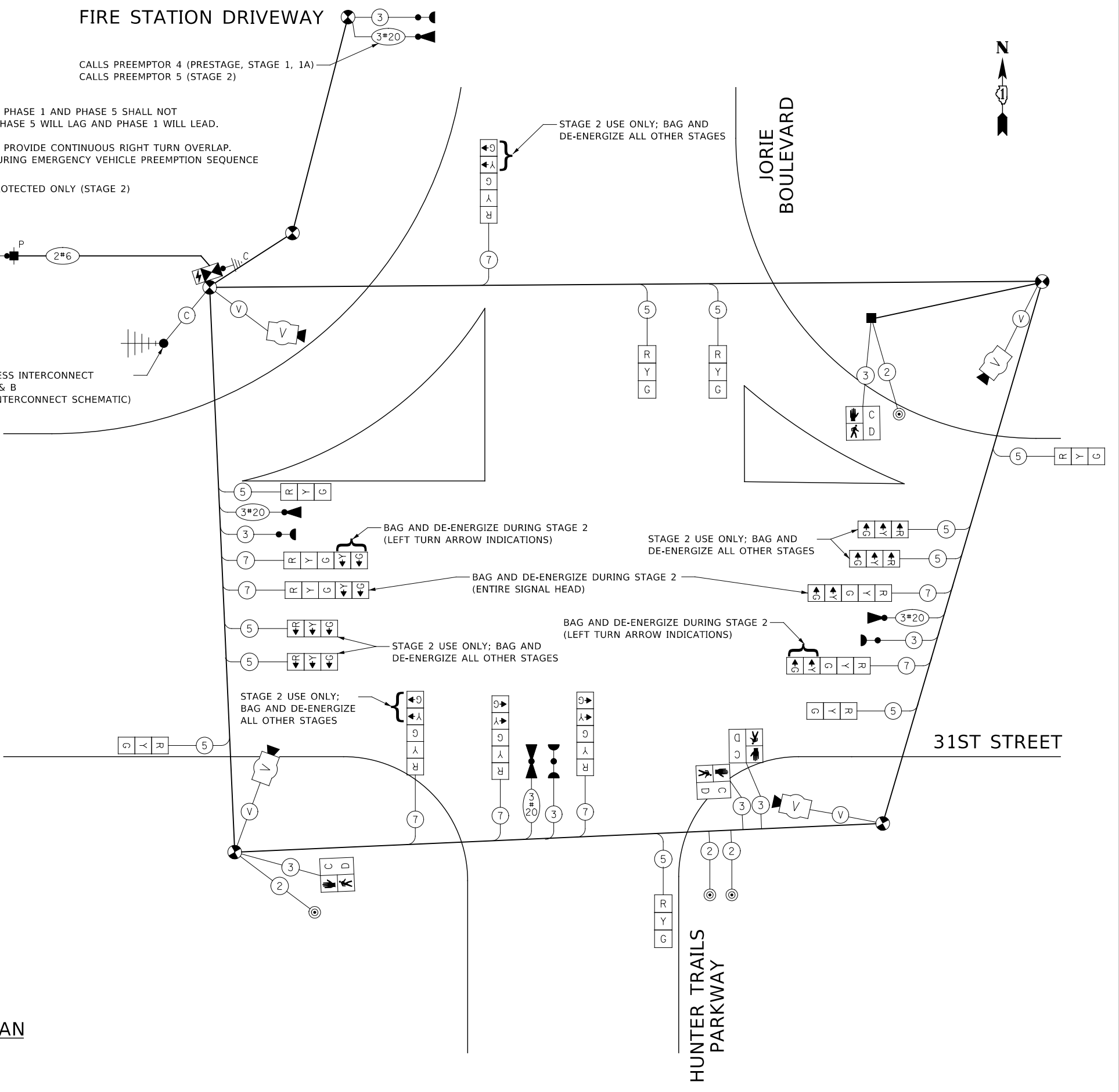
FIRE STATION DRIVEWAY

CALLS PREEMPTOR 4 (PRESTAGE, STAGE 1, 1A)
 CALLS PREEMPTOR 5 (STAGE 2)

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



TEMPORARY WIRELESS INTERCONNECT TO IL 83 RAMPS A & B (SEE TEMPORARY INTERCONNECT SCHEMATIC)



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	13	11	50	71.5
(YELLOW)	13	20	5	13.0
(GREEN)	13	12	45	70.2
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	-	310	50	-
TOTAL =				525.7

ENERGY COSTS TO:
 VILLAGE OF OAK BROOK
 3003 JORIE BOULEVARD
 OAK BROOK, IL 60523
 ENERGY SUPPLY: CONTACT: ERIC JOSTES
 PHONE: (630) 437-2927
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: ---

TEMPORARY CABLE PLAN

(NOT TO SCALE)
 ALL STAGES

DESIGNED -	D.M.S.	REVISED -	
DRAWN -	D.M.S.	REVISED -	
CHECKED -	D.J.C.	REVISED -	
DATE -	09-01-2020	REVISED -	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

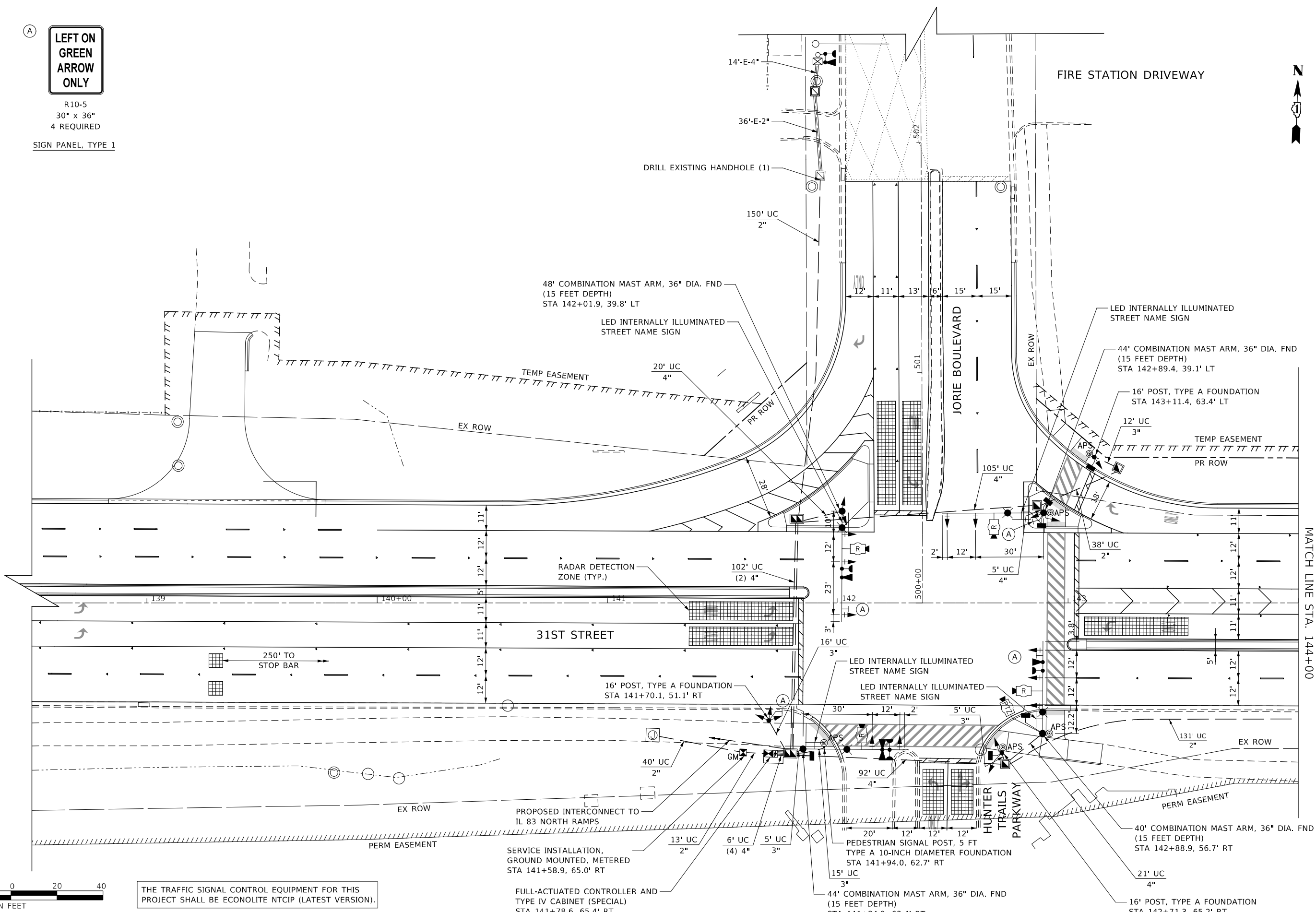
TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM, AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE 31ST STREET AND JORIE BOULEVARD / HUNTER TRAILS PARKWAY

SCALE: AS SHOWN SHEET 4 OF 4 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	216
TSS-33		CONTRACT NO. 61G12		
ILLINOIS FED. AID PROJECT				



(A) **LEFT ON GREEN ARROW ONLY**
 R10-5
 30" x 36"
 4 REQUIRED
 SIGN PANEL, TYPE 1



THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE ECONOLITE NTCIP (LATEST VERSION).

SERVICE INSTALLATION, GROUND MOUNTED, METERED
 STA 141+58.9, 65.0' RT

FULL-ACTUATED CONTROLLER AND TYPE IV CABINET (SPECIAL)
 STA 141+78.6, 65.4' RT



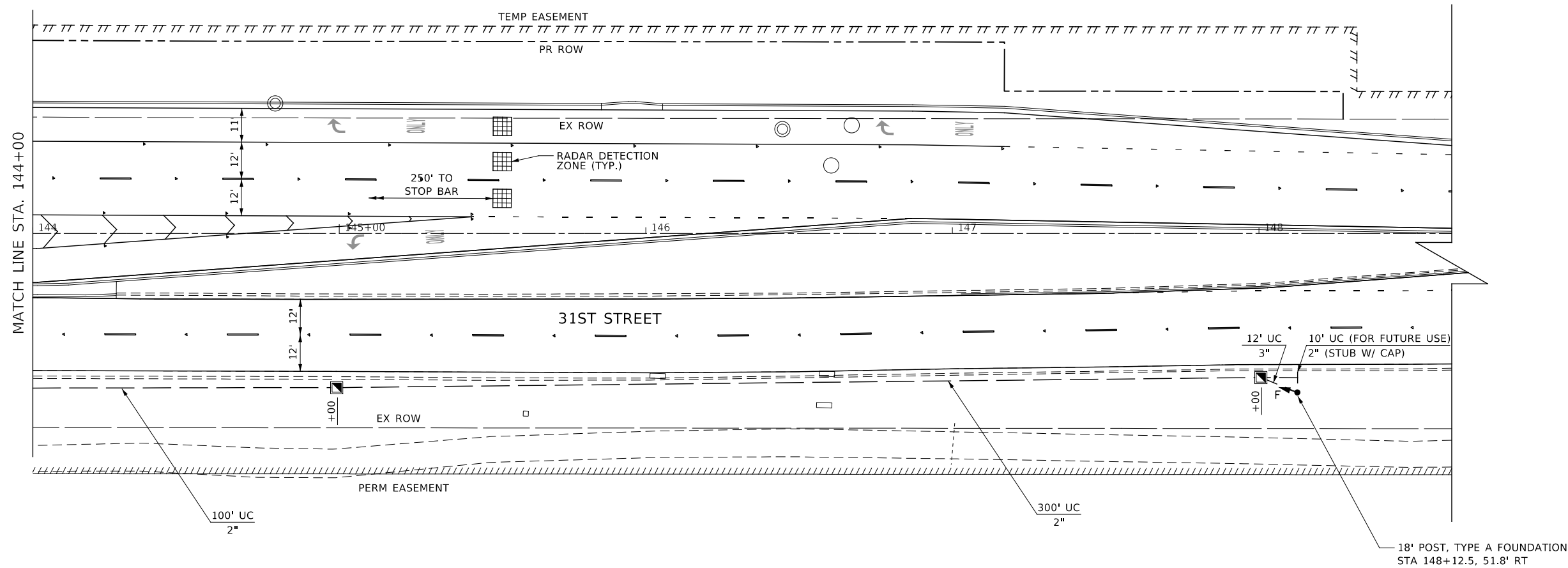
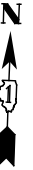
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DATE -	09-01-2020	REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL INSTALLATION PLAN
 31ST STREET AND JORIE BOULEVARD / HUNTER TRAILS PARKWAY**

SCALE: AS SHOWN SHEET 1 OF 5 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	217
TSS-34		CONTRACT NO. 61G12		
ILLINOIS		FED. AID PROJECT		



DESIGNED -	D.M.S.	REVISED -	
DRAWN -	D.M.S.	REVISED -	
CHECKED -	D.J.C.	REVISED -	
DATE -	09-01-2020	REVISED -	

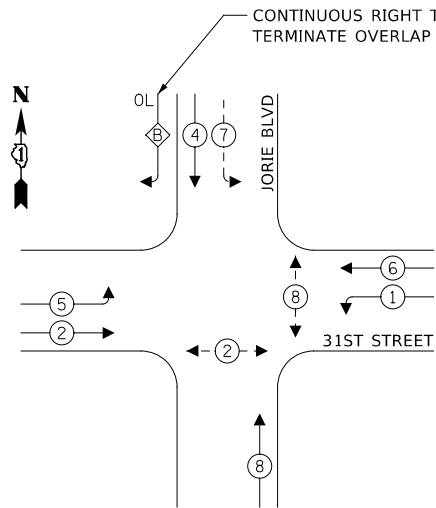
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL INSTALLATION PLAN
31ST STREET AND JORIE BOULEVARD / HUNTER TRAILS PARKWAY**

SCALE: AS SHOWN SHEET 2 OF 5 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	218
TSS-35			CONTRACT NO. 61G12	
ILLINOIS FED. AID PROJECT				

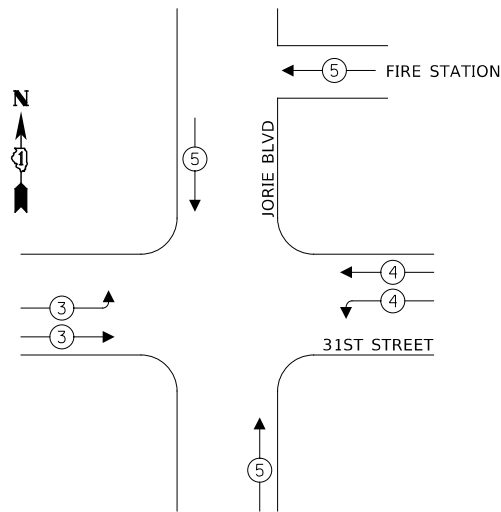
PROPOSED CONTROLLER SEQUENCE



LEGEND:

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

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



NOTE: TERMINATE ALL OVERLAPS DURING PREEMPTION SEQUENCE

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	20	11	50	110
(YELLOW)	20	20	5	20
(GREEN)	20	12	45	108
ARROW	8	10	10	8
PED. SIGNAL	6	20	100	120.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
RADAR SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	1	20	50	10
STREET NAME SIGN	4	120	50	240
LUMINAIRE	4	310	50	620.0
TOTAL =				1511.0

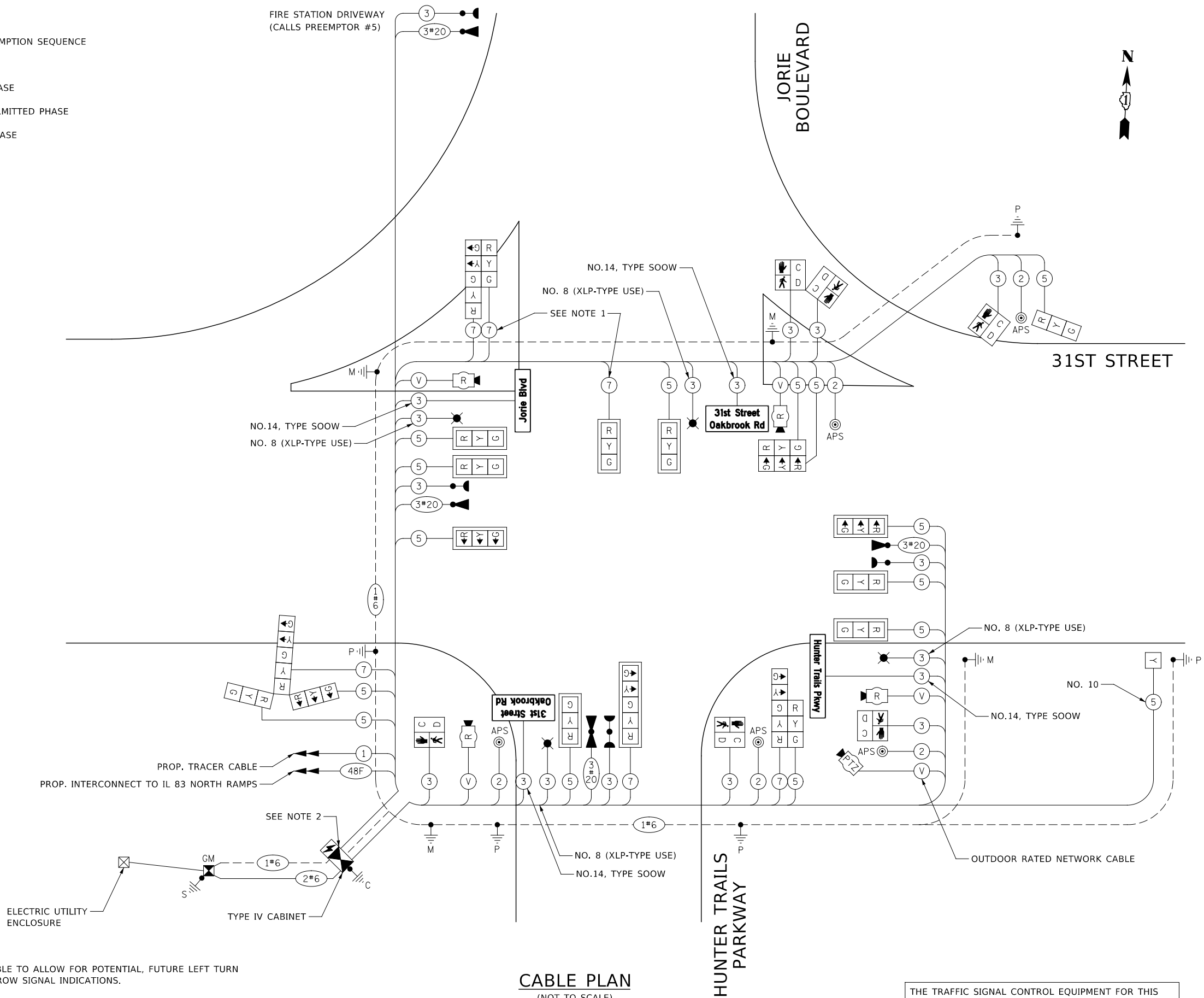
ENERGY COSTS TO:

VILLAGE OF OAK BROOK
3003 JORIE BOULEVARD
OAK BROOK, IL 60523

ENERGY SUPPLY: CONTACT: ERIC JOSTES
PHONE: (630) 437-2927
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: ---

NOTES

- INSTALL 7C CABLE TO ALLOW FOR POTENTIAL, FUTURE LEFT TURN PHASE AND ARROW SIGNAL INDICATIONS.
- INSTALL A LAYER II (DATALINK) SWITCH IN THE TRAFFIC SIGNAL CABINET TO CONNECT THE PTZ CAMERA TO THE DUDOT NETWORK.



CABLE PLAN
(NOT TO SCALE)

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE ECONOLITE NTCIP (LATEST VERSION).

KNIGHT
Engineers & Architects

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

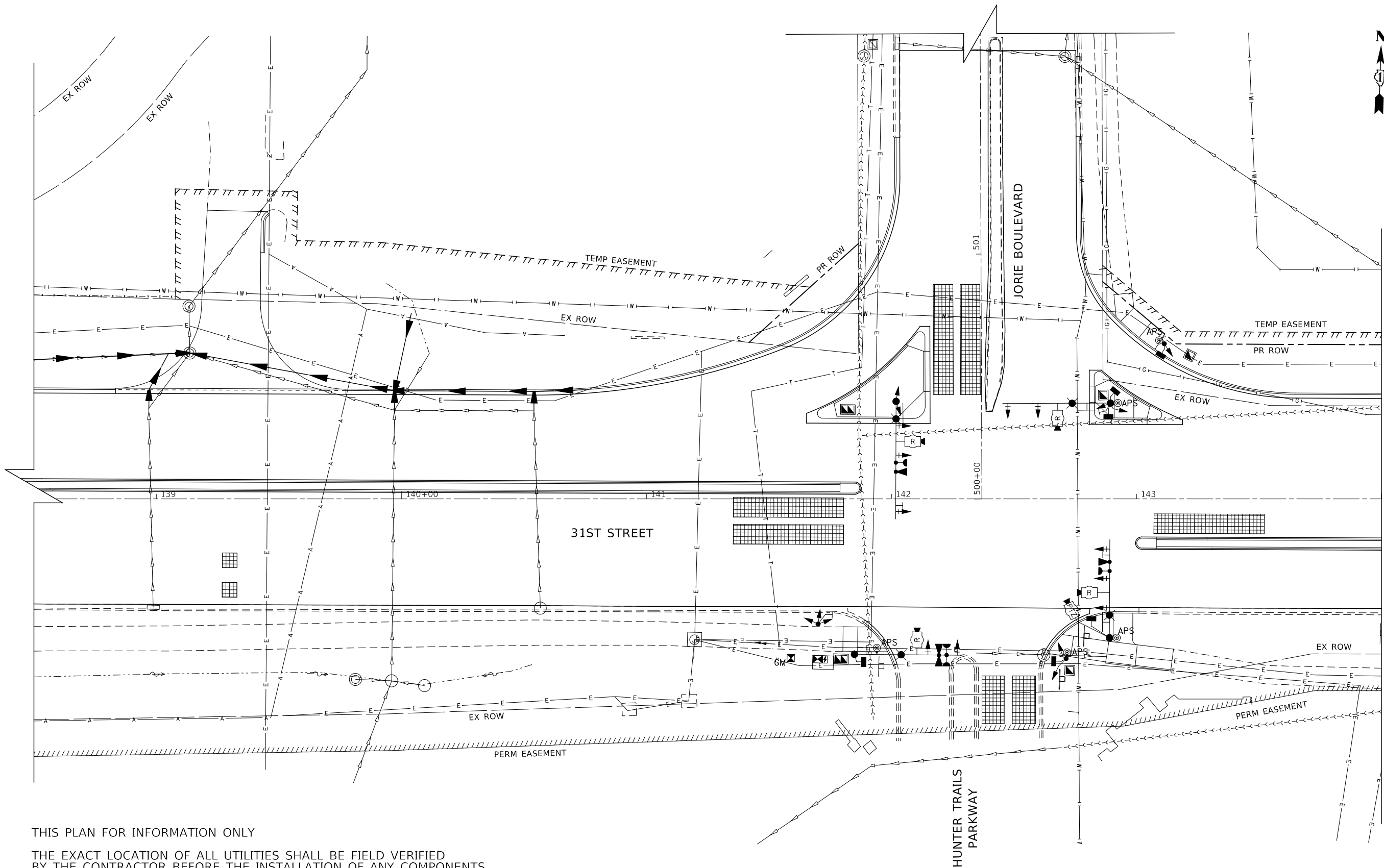
TRAFFIC SIGNAL CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
31ST STREET AND JORIE BOULEVARD / HUNTER TRAILS PARKWAY

SCALE: AS SHOWN SHEET 3 OF 5 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	219
TSS-36		CONTRACT NO. 61G12		
		ILLINOIS FED. AID PROJECT		



MATCH LINE STA. 144+00



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 BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY COMPONENTS
 OF THE TRAFFIC SIGNAL SYSTEM.



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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

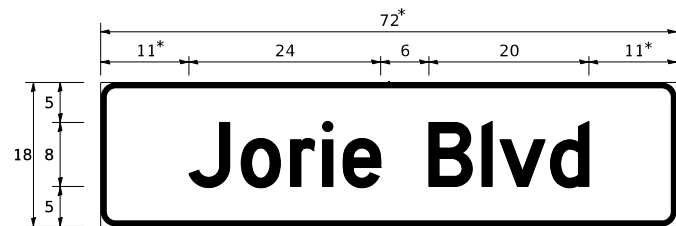
**EXISTING UTILITIES PLAN
 31ST STREET AND JORIE BOULEVARD / HUNTER TRAILS PARKWAY**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	220
TSS-37		CONTRACT NO. 61G12		
ILLINOIS FED. AID PROJECT				

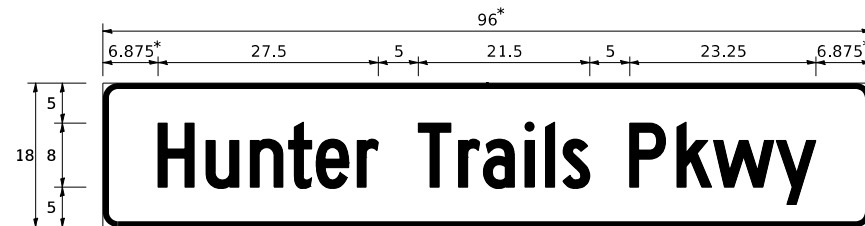
SCALE: AS SHOWN SHEET 4 OF 5 SHEETS STA. TO STA.



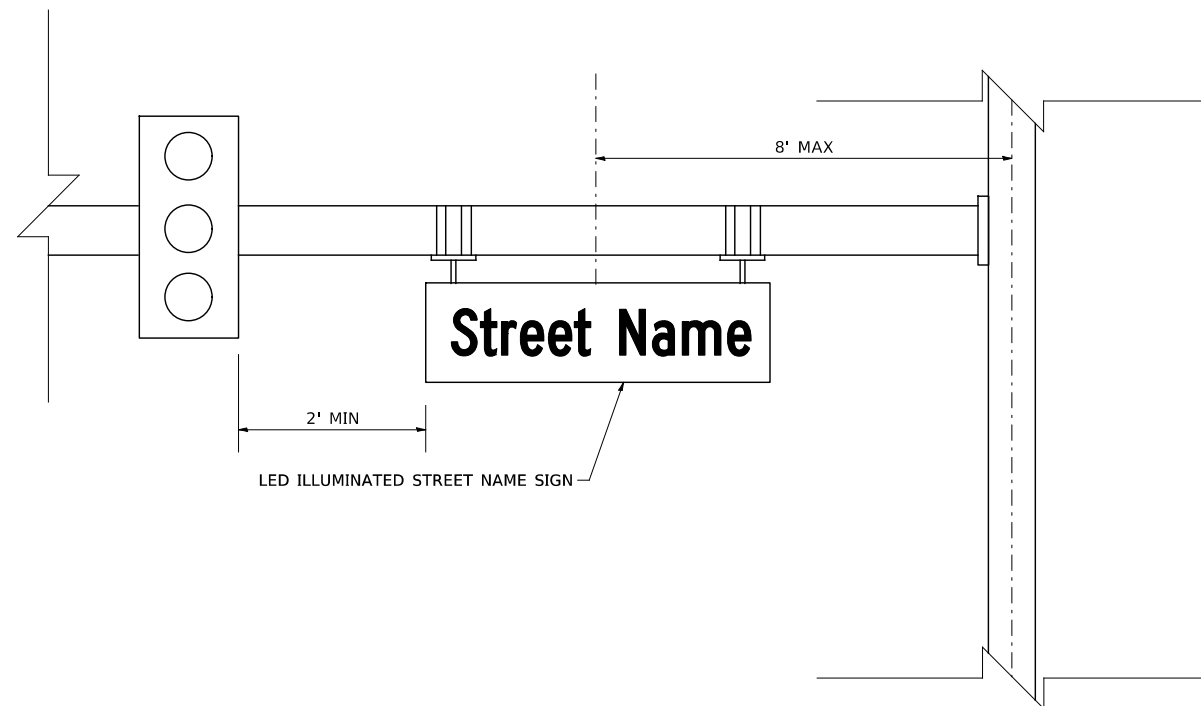
*NOTE LED VIEWABLE SIGN PANEL AREA MAY DIFFER SLIGHTLY FROM NOMINAL DIMENSION SHOWN



*NOTE LED VIEWABLE SIGN PANEL AREA MAY DIFFER SLIGHTLY FROM NOMINAL DIMENSION SHOWN



*NOTE LED VIEWABLE SIGN PANEL AREA MAY DIFFER SLIGHTLY FROM NOMINAL DIMENSION SHOWN



31ST STREET AND JORIE BOULEVARD INTERSECTION

LED ILLUMINATED STREET NAME SIGN

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	INTERSECTION QTY. REQUIRED
D	15.0	LED ILLUMINATED	ZZ	2

SIGN SHALL BE SINGLE-SIDED

DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	INTERSECTION QTY. REQUIRED
D	9.0	LED ILLUMINATED	ZZ	1

SIGN SHALL BE DOUBLE-SIDED

DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	INTERSECTION QTY. REQUIRED
C	12.0	LED ILLUMINATED	ZZ	1

SIGN SHALL BE DOUBLE-SIDED

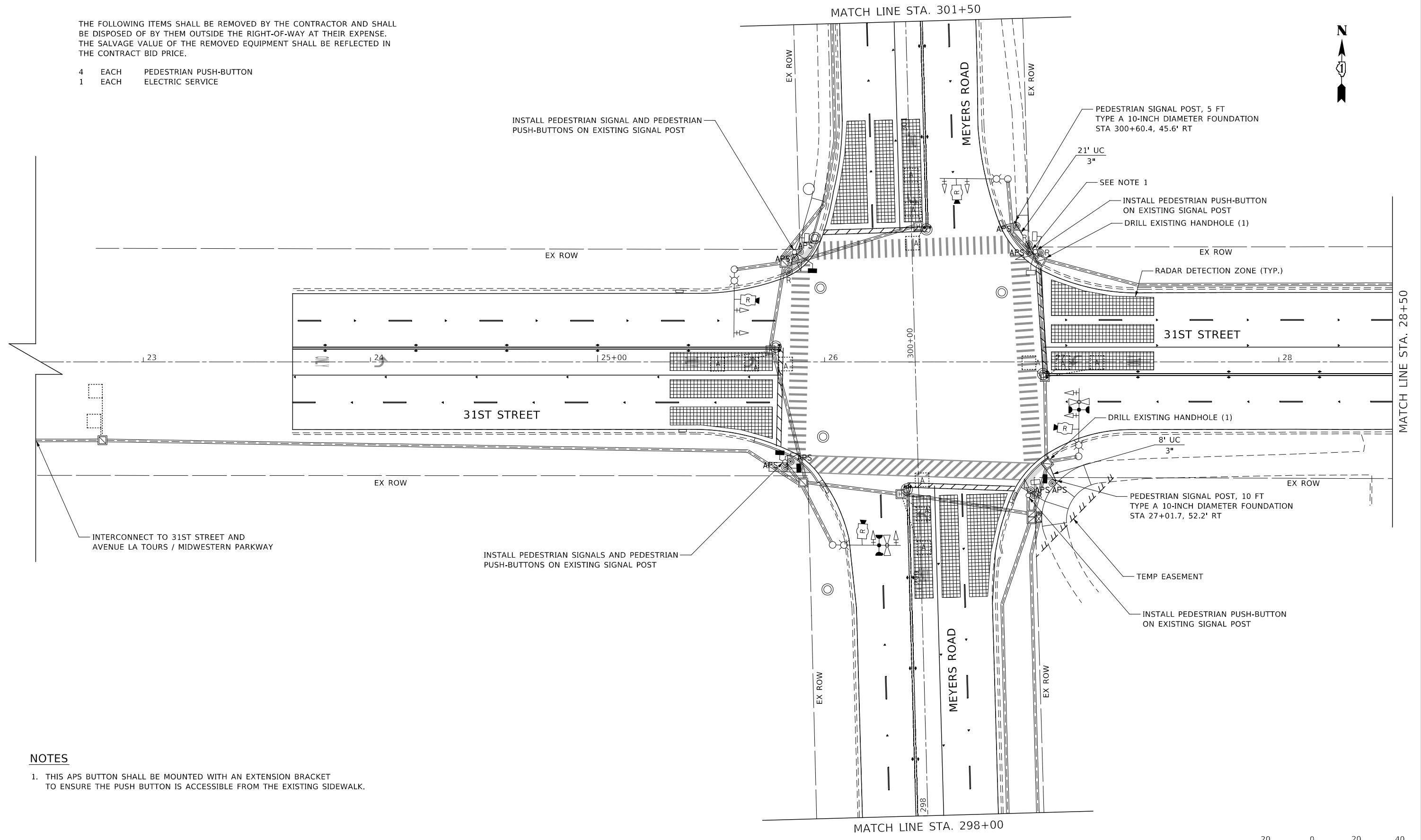
**TRAFFIC SIGNALS SCHEDULE OF QUANTITIES
31ST STREET AND JORIE BOULEVARD**

ITEM	UNIT	TOTAL
SIGN PANEL - TYPE 1	SQ FT	30
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	782
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	65
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	471
HANDHOLE	EACH	5
DOUBLE HANDHOLE	EACH	2
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	520
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 8	FOOT	507
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	925
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2130
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2728
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	973
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	62
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1130
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 40 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 44 FT.	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	20
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	60
DRILL EXISTING HANDHOLE	EACH	1
FLASHING BEACON INSTALLATION	EACH	1
SIGNAL HEAD, LED, 1-FACE, 1-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	9
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	7
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	6
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	10
LIGHT DETECTOR	EACH	4
LIGHT DETECTOR AMPLIFIER	EACH	1
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	14
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	9
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 203/C	FOOT	907
LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	4
OUTDOOR RATED NETWORK CABLE	FOOT	213
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
LUMINAIRE, LED, SPECIAL	EACH	4
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	1
ELECTRIC CABLE IN CONDUIT, STREET NAME SIGN, NO. 14 3C, TYPE SOOW	FOOT	717
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 10 5C	FOOT	699
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	5
CONCRETE FOUNDATION, TYPE A 10-INCH DIAMETER	FOOT	4
VEHICLE DETECTION SYSTEM, SPECIAL	EACH	1

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT:

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.

- 4 EACH PEDESTRIAN PUSH-BUTTON
- 1 EACH ELECTRIC SERVICE



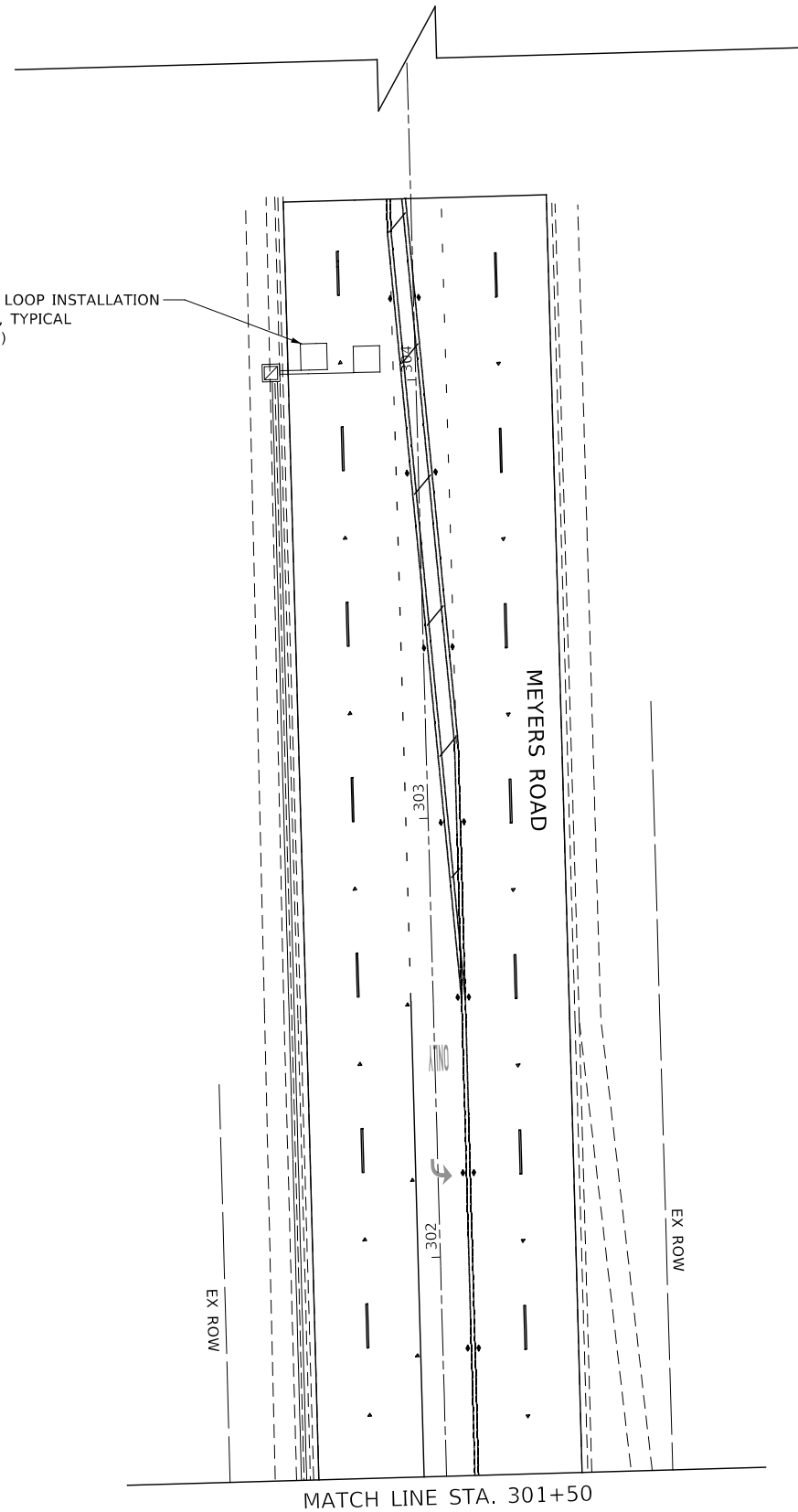
NOTES

1. THIS APS BUTTON SHALL BE MOUNTED WITH AN EXTENSION BRACKET TO ENSURE THE PUSH BUTTON IS ACCESSIBLE FROM THE EXISTING SIDEWALK.



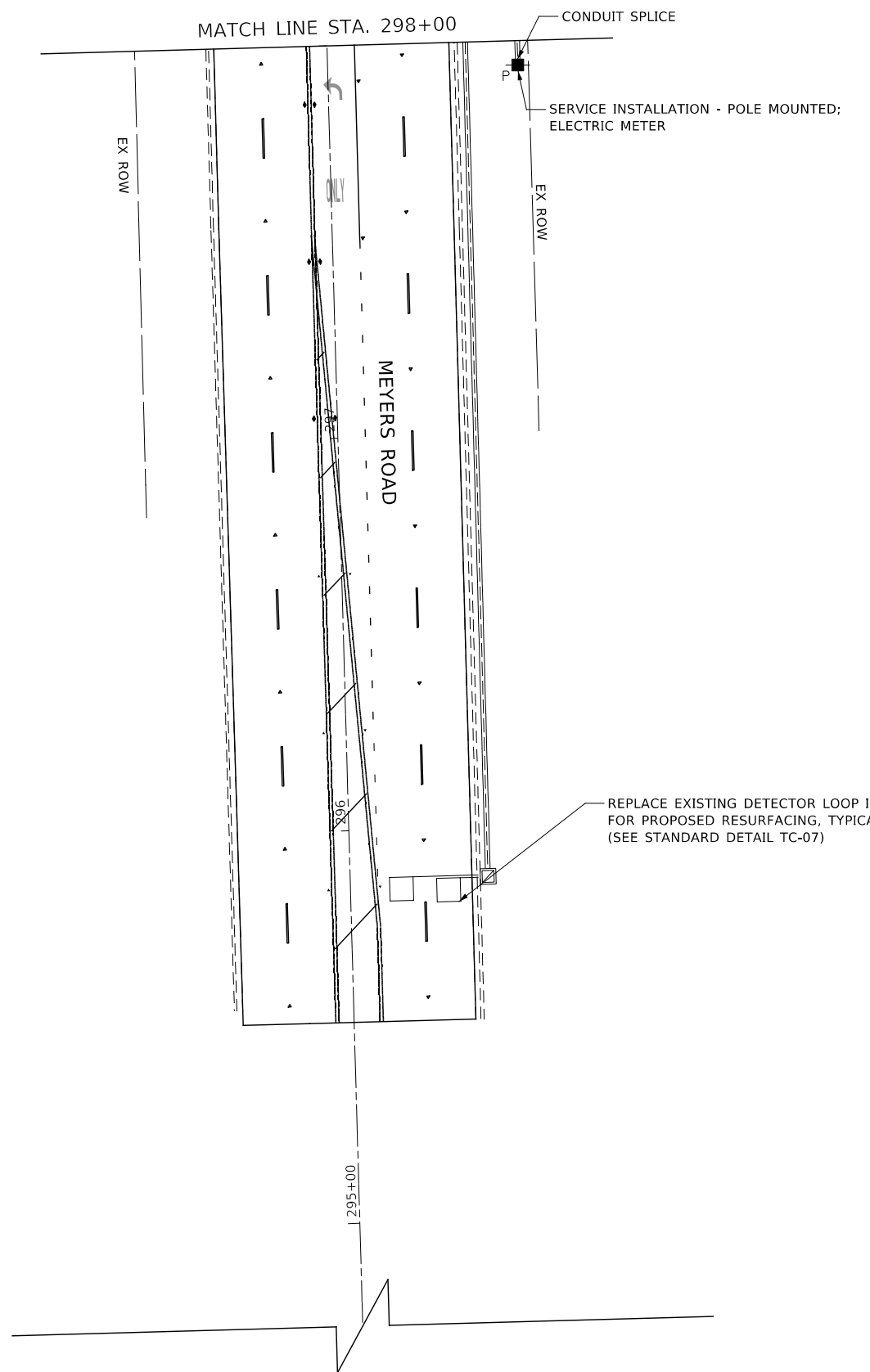
	DESIGNED - D.M.S.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL INSTALLATION PLAN 31ST STREET AND MEYERS ROAD		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - D.M.S.	REVISED -				1467	14-00259-05-CH	DUPAGE	294	222
	CHECKED - D.J.C.	REVISED -				TSS-39		CONTRACT NO. 61G12		
	DATE - 09-01-2020	REVISED -		SCALE: AS SHOWN	SHEET 1 OF 4 SHEETS	STA.	TO STA.		ILLINOIS FED. AID PROJECT	

REPLACE EXISTING DETECTOR LOOP INSTALLATION FOR PROPOSED RESURFACING, TYPICAL (SEE STANDARD DETAIL TC-07)



MATCH LINE STA. 301+50

MATCH LINE STA. 298+00



REPLACE EXISTING DETECTOR LOOP INSTALLATION FOR PROPOSED RESURFACING, TYPICAL (SEE STANDARD DETAIL TC-07)

CONDUIT SPLICE
SERVICE INSTALLATION - POLE MOUNTED;
ELECTRIC METER

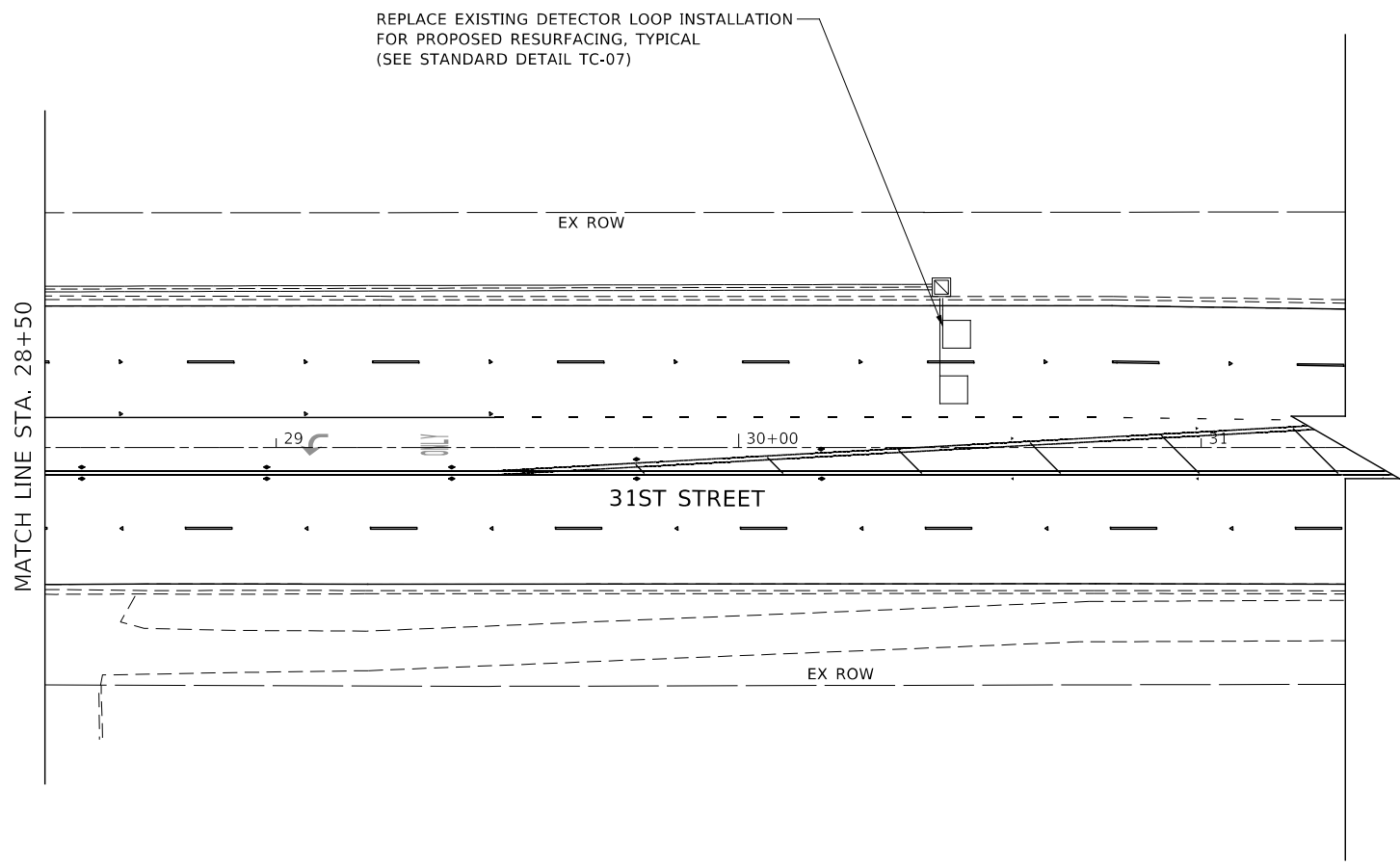
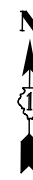


	DESIGNED - D.M.S.	REVISED -
	DRAWN - D.M.S.	REVISED -
	CHECKED - D.J.C.	REVISED -
	DATE - 09-01-2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC SIGNAL INSTALLATION PLAN			
31ST STREET AND MEYERS ROAD			
SCALE: AS SHOWN	SHEET 2 OF 4 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	223
TSS-40		CONTRACT NO. 61G12		
ILLINOIS FED. AID PROJECT				



DESIGNED -	D.M.S.	REVISED -	
DRAWN -	D.M.S.	REVISED -	
CHECKED -	D.J.C.	REVISED -	
DATE -	09-01-2020	REVISED -	

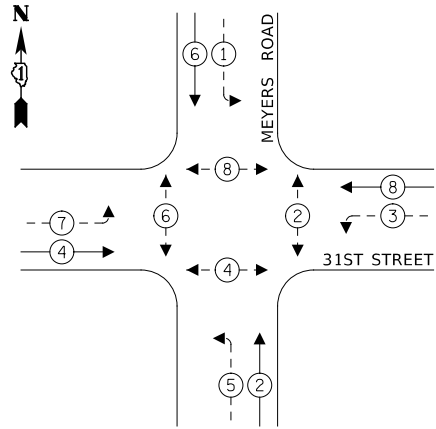
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL INSTALLATION PLAN
31ST STREET AND MEYERS ROAD**

SCALE: AS SHOWN SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	224
TSS-41			CONTRACT NO. 61G12	
ILLINOIS FED. AID PROJECT				

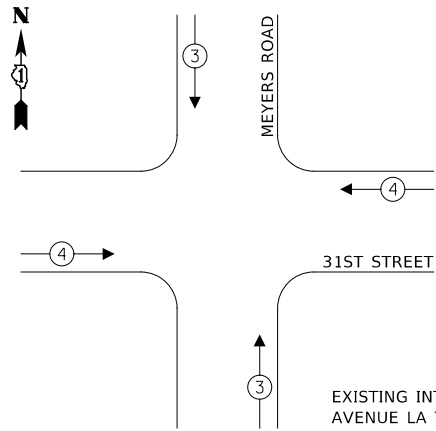
EXISTING AND PROPOSED CONTROLLER SEQUENCE



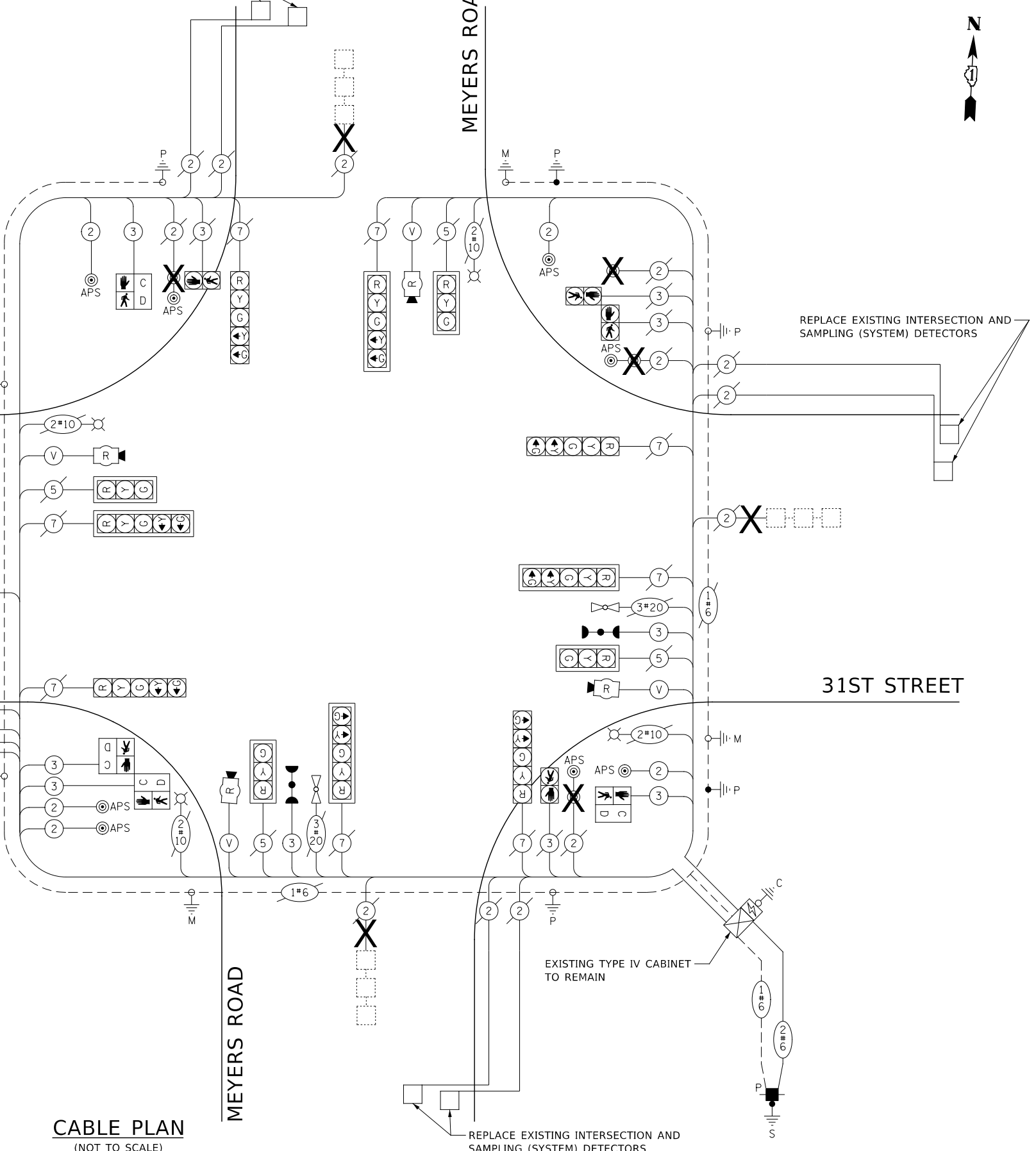
LEGEND:

- ←(*) PROTECTED PHASE
- ←(*)- PROTECTED/PERMITTED PHASE
- ←(*)→ PEDESTRIAN PHASE

EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



REPLACE EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTORS



EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

EXISTING INTERCONNECT TO AVENUE LA TOURS / MIDWESTERN PKWY

EXISTING TRACER CABLE

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	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	-	25	100	-
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	4	310	50	620
TOTAL =				1038.8

**TRAFFIC SIGNALS SCHEDULE OF QUANTITIES
31ST STREET AND MEYERS ROAD**

ITEM	UNIT	TOTAL
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	29
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	837
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1020
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	145
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	187
DRILL EXISTING HANDHOLE	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
DETECTOR LOOP, TYPE I	FOOT	198
CONFIRMATION BEACON	EACH	2
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1158
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
RADAR VEHICLE DETECTION SYSTEM	EACH	1
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	1
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	1
CONDUIT SPLICE	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
CONCRETE FOUNDATION, TYPE A 10-INCH DIAMETER	FOOT	8
ELECTRIC METER	EACH	1

ENERGY COSTS TO:

DUPAGE COUNTY DIVISION OF TRANSPORTATION
421 N. COUNTY FARM ROAD
WHEATON, ILLINOIS 60187-2553

ENERGY SUPPLY: CONTACT: ERIC JOSTES
PHONE: (630) 437-2927
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: ---

KNIGHT
Engineers & Architects

DESIGNED - D.M.S.	REVISED -
DRAWN - D.M.S.	REVISED -
CHECKED - D.J.C.	REVISED -
DATE - 09-01-2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**TRAFFIC SIGNAL CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
31ST STREET AND MEYERS ROAD**

SCALE: AS SHOWN SHEET 4 OF 4 SHEETS STA. TO STA.

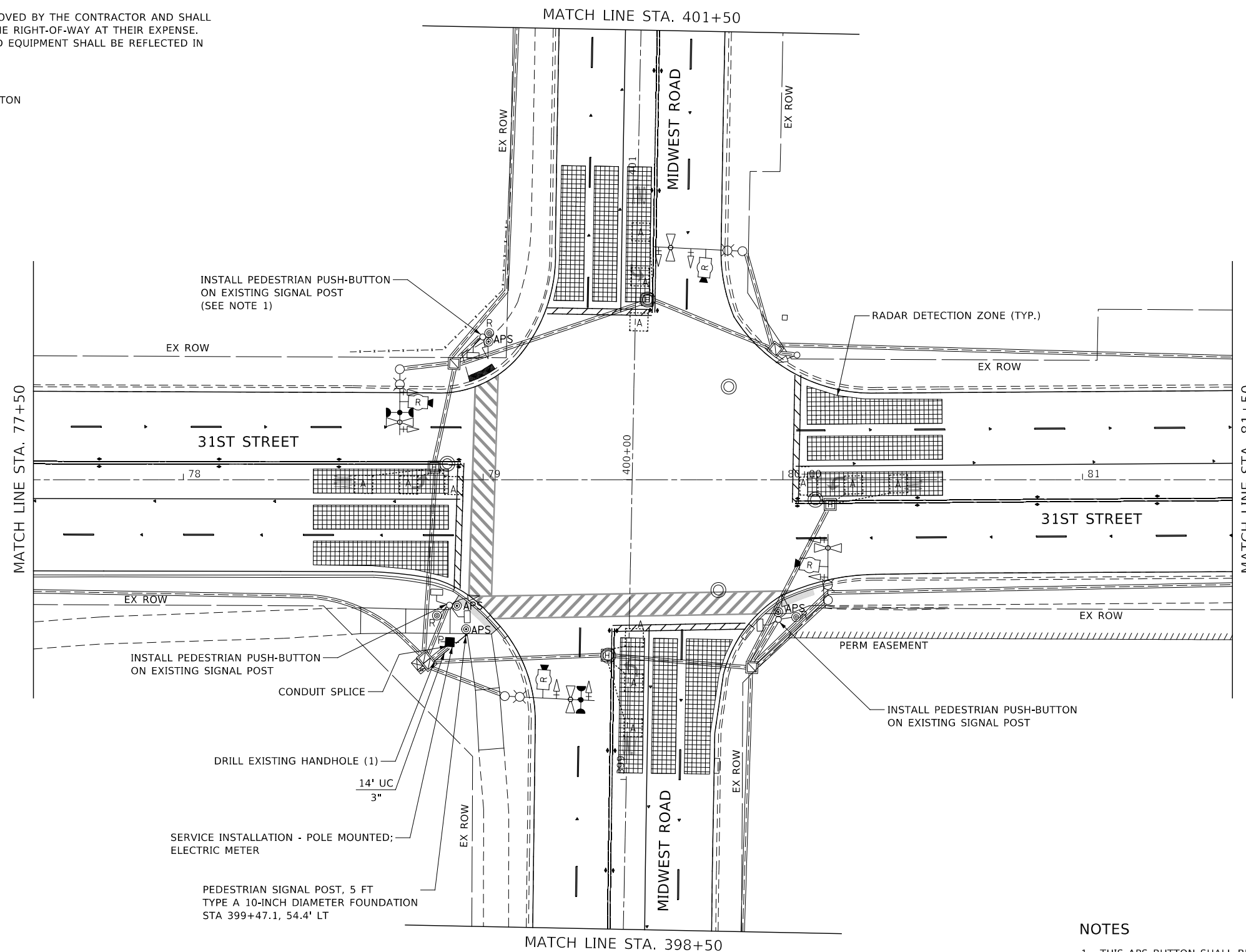
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	225
TSS-42		CONTRACT NO. 61G12		
ILLINOIS FED. AID PROJECT				



REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT:

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.

- 3 EACH PEDESTRIAN PUSH-BUTTON
- 1 EACH ELECTRIC SERVICE

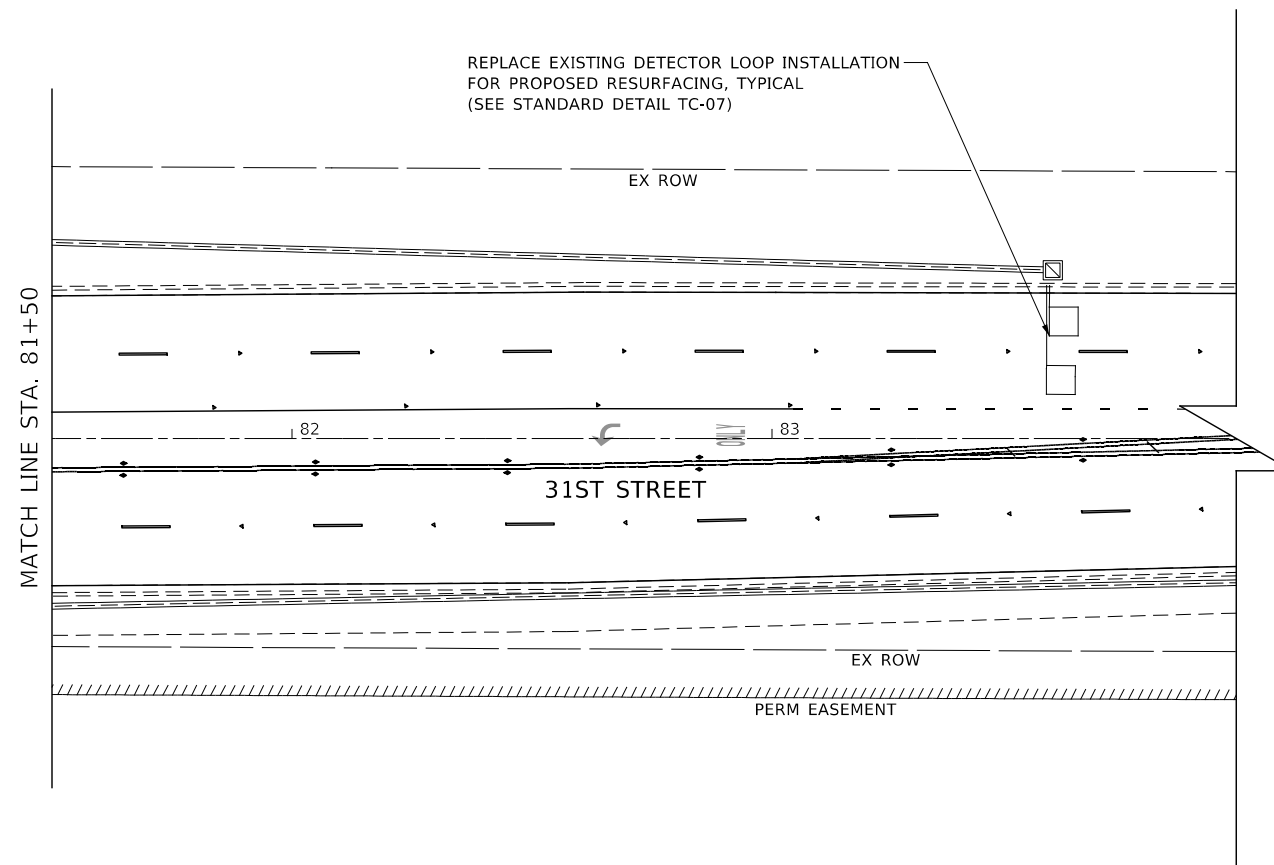
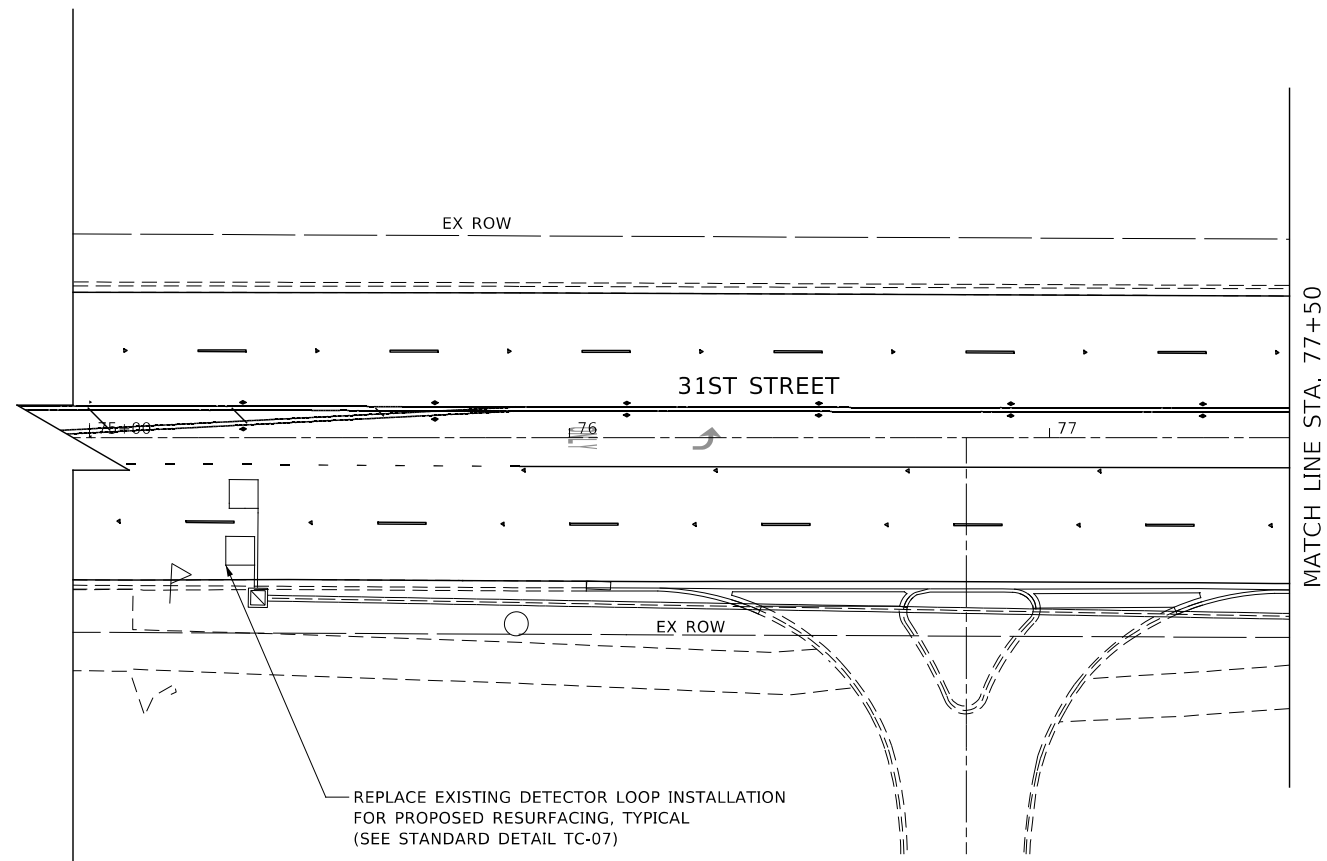


NOTES

1. THIS APS BUTTON SHALL BE MOUNTED WITH AN EXTENSION BRACKET TO ENSURE THE PUSH BUTTON IS ACCESSIBLE FROM THE EXISTING SIDEWALK.



	DESIGNED - D.M.S.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL INSTALLATION PLAN 31ST STREET AND MIDWEST ROAD	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - D.M.S.	REVISED -			1467	14-00259-05-CH	DUPAGE	294	226
	CHECKED - D.J.C.	REVISED -			TSS-43		CONTRACT NO. 61G12		
DATE - 09-01-2020	REVISED -	SCALE: AS SHOWN SHEET 1 OF 4 SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT				



DESIGNED -	D.M.S.	REVISED -	
DRAWN -	D.M.S.	REVISED -	
CHECKED -	D.J.C.	REVISED -	
DATE -	09-01-2020	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

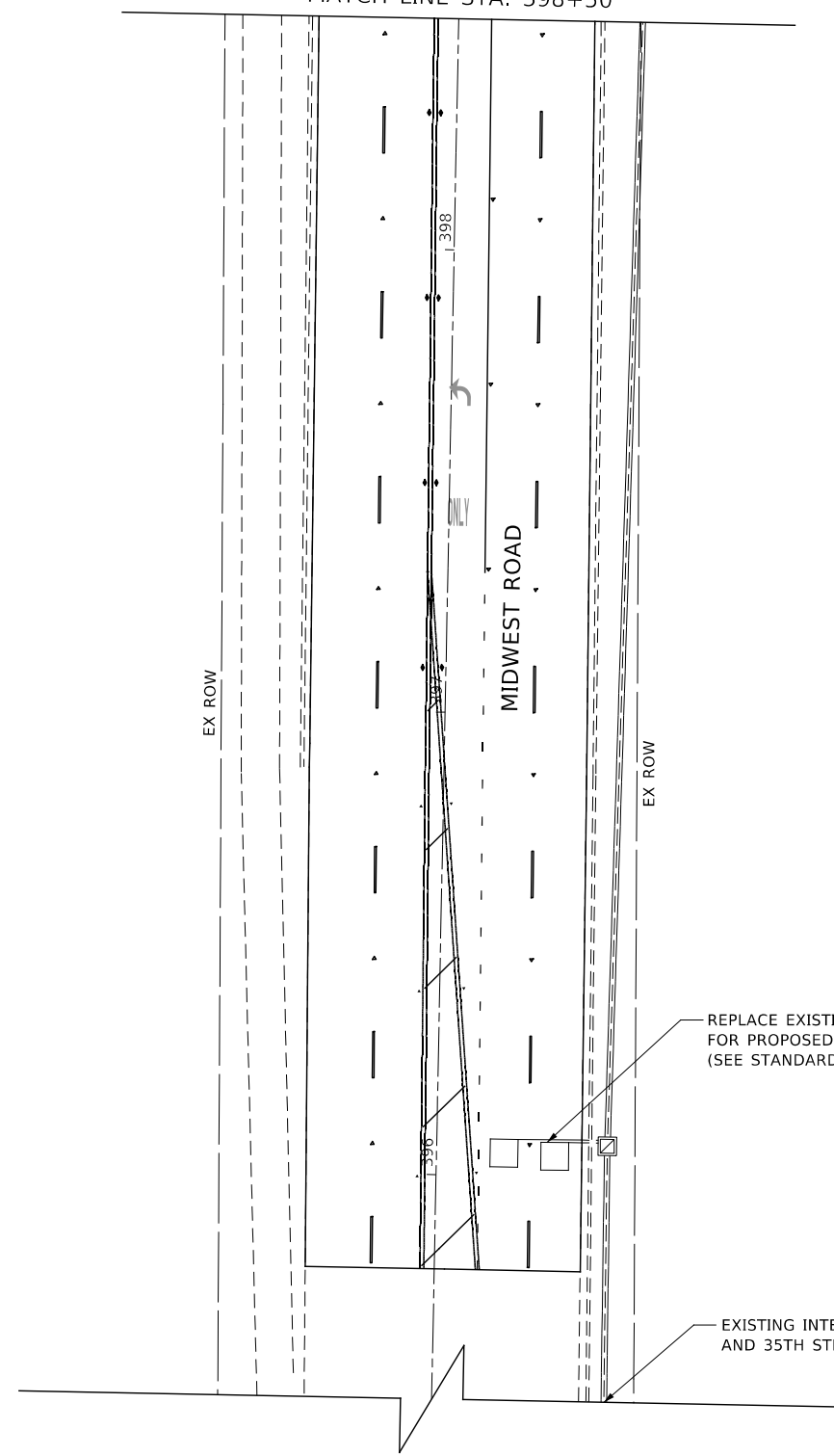
**TRAFFIC SIGNAL INSTALLATION PLAN
31ST STREET AND MIDWEST ROAD**

SCALE: AS SHOWN SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	227
TSS-44			CONTRACT NO. 61G12	
ILLINOIS FED. AID PROJECT				



MATCH LINE STA. 398+50

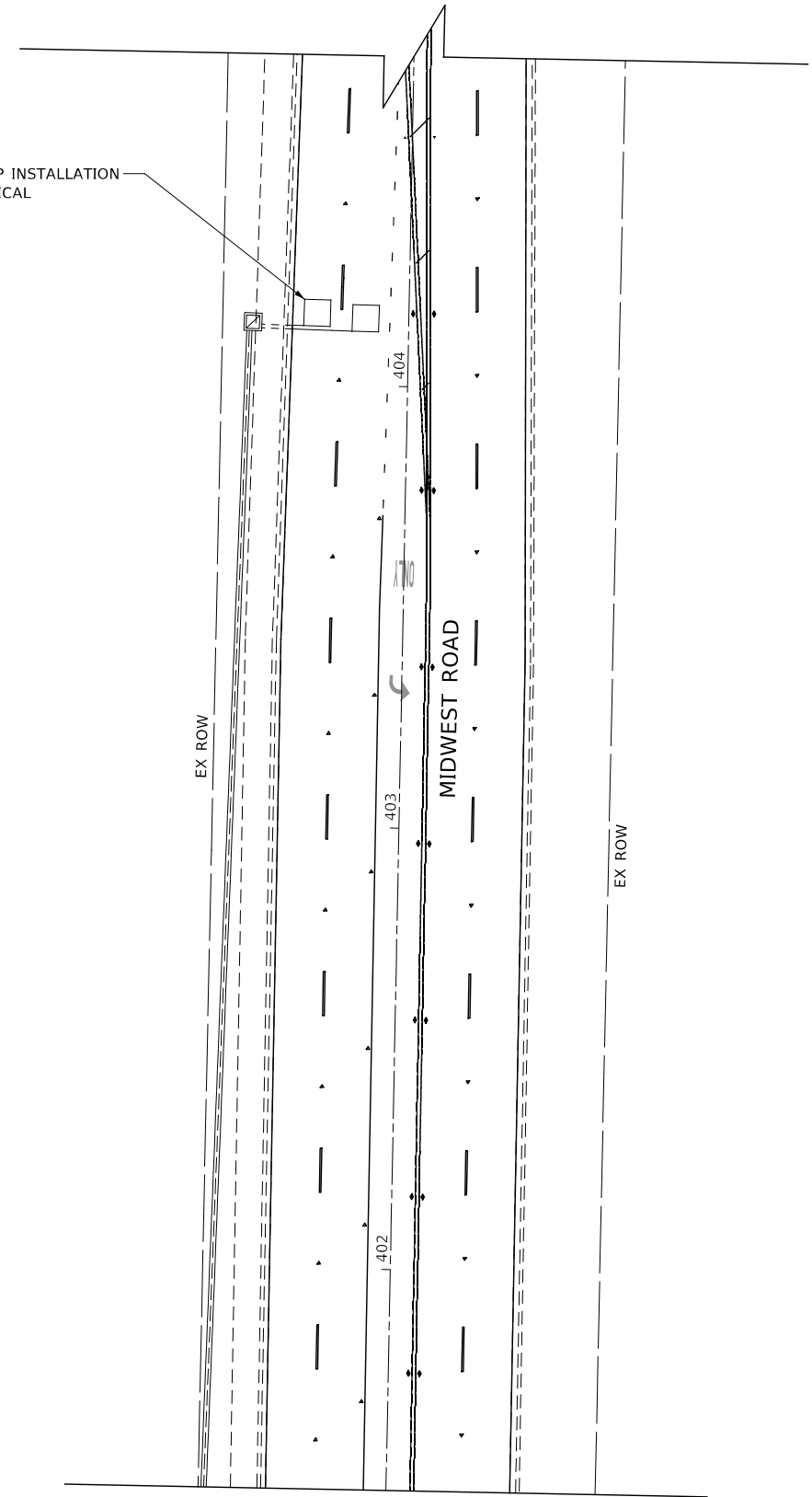


REPLACE EXISTING DETECTOR LOOP INSTALLATION FOR PROPOSED RESURFACING, TYPICAL (SEE STANDARD DETAIL TC-07)

EXISTING INTERCONNECT TO MIDWEST ROAD AND 35TH STREET (NORTH) SIGNAL CABINET



REPLACE EXISTING DETECTOR LOOP INSTALLATION FOR PROPOSED RESURFACING, TYPICAL (SEE STANDARD DETAIL TC-07)



MATCH LINE STA. 401+50



DESIGNED -	D.M.S.	REVISED -	
DRAWN -	D.M.S.	REVISED -	
CHECKED -	D.J.C.	REVISED -	
DATE -	09-01-2020	REVISED -	

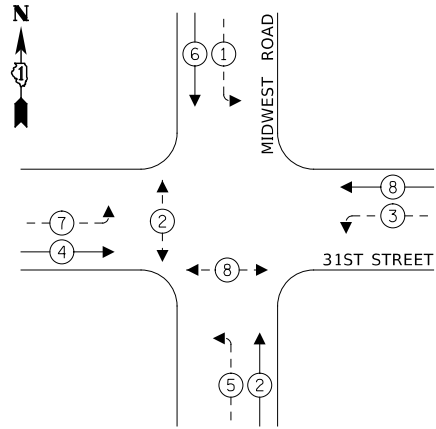
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN
31ST STREET AND MIDWEST ROAD

SCALE: AS SHOWN SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	228
TSS-45		CONTRACT NO. 61G12		
ILLINOIS FED. AID PROJECT				

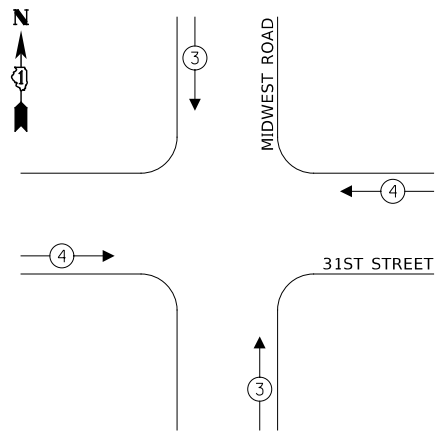
EXISTING AND PROPOSED CONTROLLER SEQUENCE



LEGEND:

- ←(*) PROTECTED PHASE
- ←-(*)- PROTECTED/PERMITTED PHASE
- ←-(*)-> PEDESTRIAN PHASE

EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



REPLACE EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

REPLACE EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

REPLACE EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

TRAFFIC SIGNALS SCHEDULE OF QUANTITIES 31ST STREET AND MIDWEST ROAD		
ITEM	UNIT	TOTAL
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	14
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	47
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	302
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	36
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	57
DRILL EXISTING HANDHOLE	EACH	1
DETECTOR LOOP, TYPE I	FOOT	262
CONFIRMATION BEACON	EACH	2
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	667
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
RADAR VEHICLE DETECTION SYSTEM	EACH	1
UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	1
CONDUIT SPLICE	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4
CONCRETE FOUNDATION, TYPE A 10-INCH DIAMETER	FOOT	4
MODIFY EXISTING CONTROLLER CABINET, SPECIAL	EACH	1
ELECTRIC METER	EACH	1

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

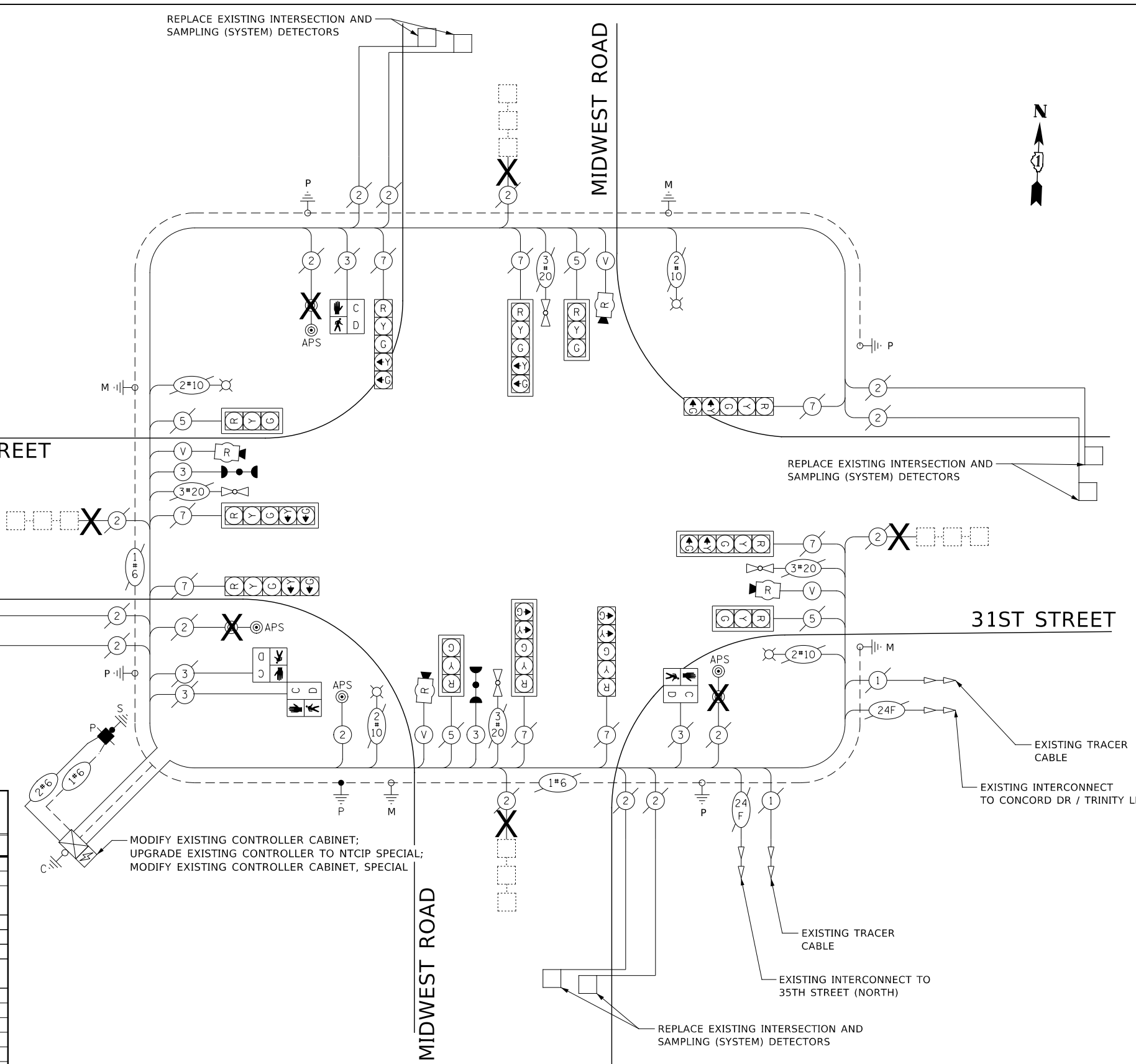
TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	5	12.0
(GREEN)	12	12	45	64.8
PERMISSIVE ARROW	16	10	10	16.0
PED. SIGNAL	4	20	100	80.0
CONTROLLER	1	100	100	100.0
UPS	-	25	100	-
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	4	310	50	620.0
TOTAL =				958.8

ENERGY COSTS TO:

DUPAGE COUNTY DIVISION OF TRANSPORTATION
421 N. COUNTY FARM ROAD
WHEATON, ILLINOIS 60187-2553

ENERGY SUPPLY: CONTACT: ERIC JOSTES
PHONE: (630) 437-2927
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: ---

MODIFY EXISTING CONTROLLER CABINET;
UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL;
MODIFY EXISTING CONTROLLER CABINET, SPECIAL



CABLE PLAN
(NOT TO SCALE)

**TRAFFIC SIGNAL CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
31ST STREET AND MIDWEST ROAD**

SCALE: AS SHOWN SHEET 4 OF 4 SHEETS STA. TO STA.

DESIGNED - D.M.S.	REVISED -
DRAWN - D.M.S.	REVISED -
CHECKED - D.J.C.	REVISED -
DATE - 09-01-2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	229
TSS-46		CONTRACT NO. 61G12		
ILLINOIS FED. AID PROJECT				

KNIGHT
Engineers & Architects

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT:

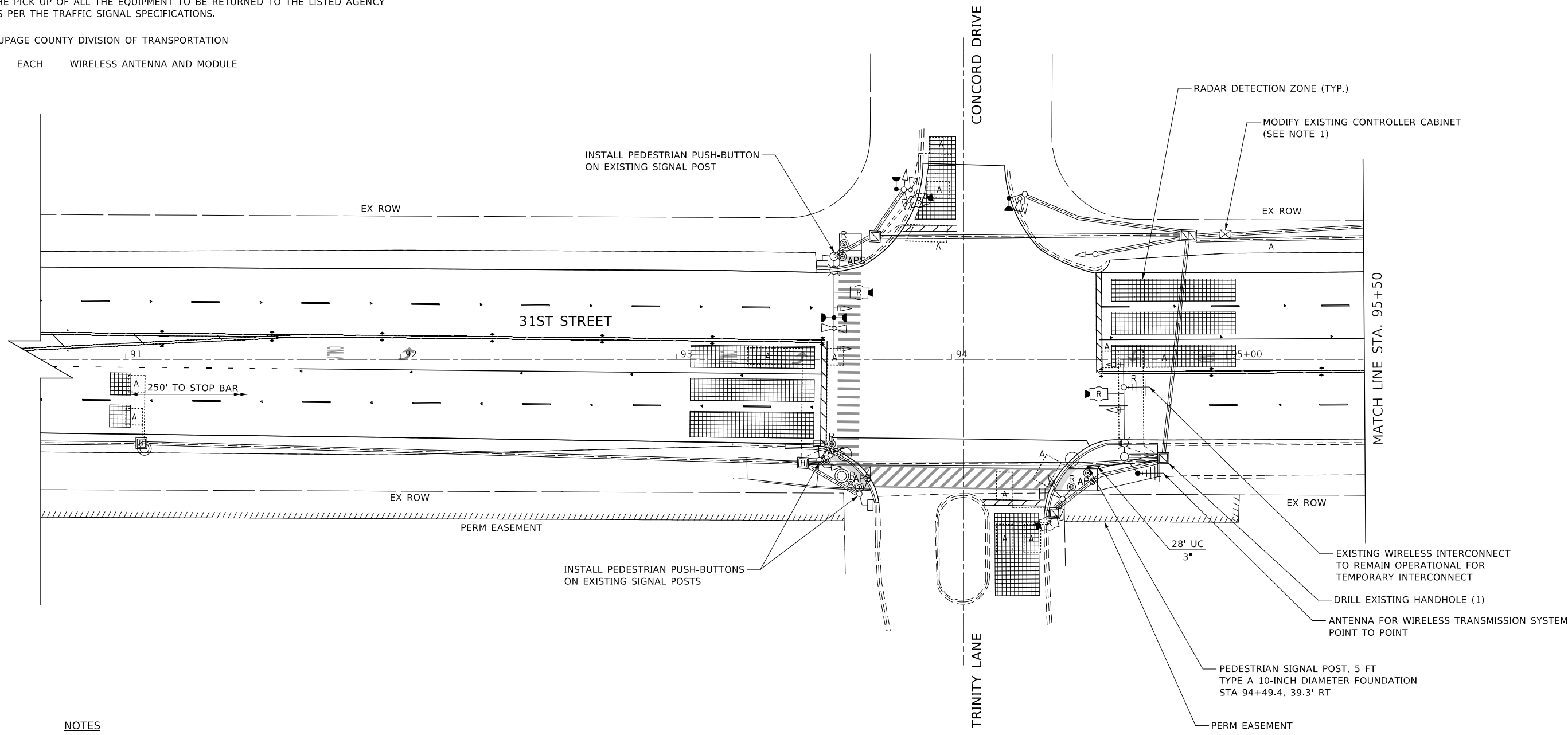
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 4 EACH PEDESTRIAN PUSH-BUTTON

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 AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

DUPAGE COUNTY DIVISION OF TRANSPORTATION

- 1 EACH WIRELESS ANTENNA AND MODULE



NOTES

1. THE EXISTING TRAFFIC SIGNAL CONTROLLER CABINET IS NEMA TS-1 WITH SHELF MOUNTED INDUCTIVE LOOP DETECTORS. THE CONTRACTOR SHALL FURNISH ANY NECESSARY DETECTOR RACK AND MOUNTING HARDWARE REQUIRED FOR THE RADAR VEHICLE DETECTION SYSTEM. THIS WORK WILL NOT BE MEASURED SEPARATELY FOR PAYMENT AND SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT COST FOR WIDE AREA RADAR VEHICLE DETECTION SYSTEM.



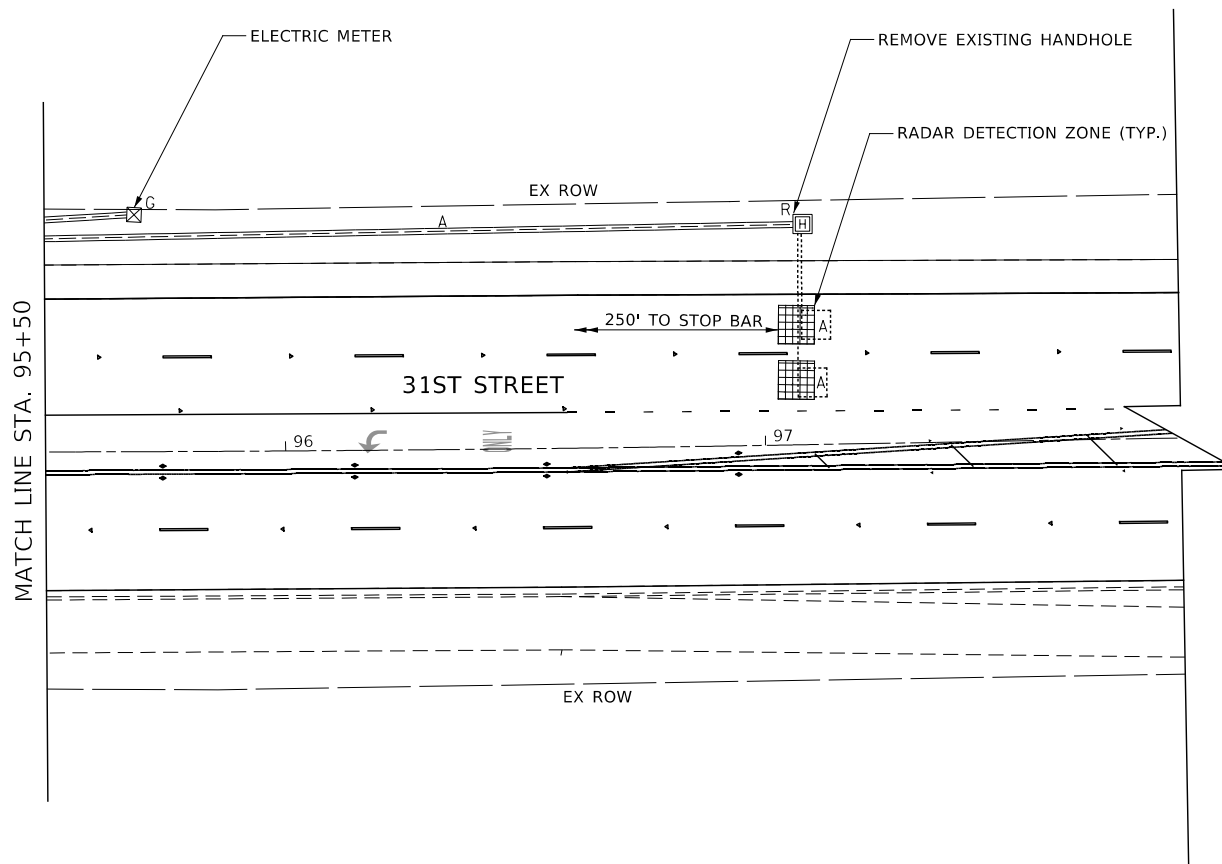
DESIGNED -	D.M.S.	REVISED -	
DRAWN -	D.M.S.	REVISED -	
CHECKED -	D.J.C.	REVISED -	
DATE -	09-01-2020	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL INSTALLATION PLAN
31ST STREET AND CONCORD DRIVE / TRINITY LANE**

SCALE: AS SHOWN SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	230
TSS-47		CONTRACT NO. 61G12		
ILLINOIS FED. AID PROJECT				



KNIGHT
Engineers & Architects

DESIGNED -	D.M.S.	REVISED -	
DRAWN -	D.M.S.	REVISED -	
CHECKED -	D.J.C.	REVISED -	
DATE -	09-01-2020	REVISED -	

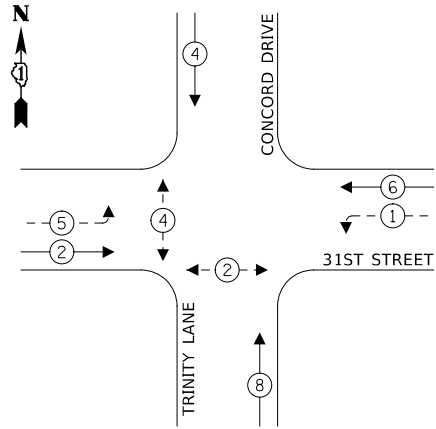
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL INSTALLATION PLAN
31ST STREET AND CONCORD DRIVE / TRINITY LANE**

SCALE: AS SHOWN SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	231
TSS-48			CONTRACT NO. 61G12	
ILLINOIS FED. AID PROJECT				

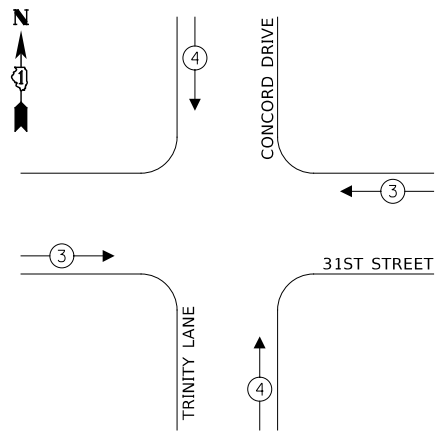
EXISTING AND PROPOSED CONTROLLER SEQUENCE



LEGEND:

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

EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



31ST STREET

CONCORD DRIVE

EXISTING TRACER CABLE

EXISTING INTERCONNECT TO MIDWEST RD

TRINITY LANE

CABLE PLAN
(NOT TO SCALE)

INSTALL A TERMINAL SERVER IN THE EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK

MODIFY EXISTING CONTROLLER CABINET

PROPOSED WIRELESS BROADBAND INTERCONNECT TO ST PASCHAL DR / REGENT DR (WIRELESS TRANSMISSION SYSTEM POINT TO POINT)

31ST STREET

OUTDOOR RATED NETWORK CABLE

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	8	10	10	8.0
PED. SIGNAL	4	20	100	80.0
CONTROLLER	1	100	100	100.0
UPS	-	25	100	-
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	2	310	50	310.0
TOTAL =				640.8

ENERGY COSTS TO:

DUPAGE COUNTY DIVISION OF TRANSPORTATION
421 N. COUNTY FARM ROAD
WHEATON, ILLINOIS 60187-2553

ENERGY SUPPLY: CONTACT: ERIC JOSTES
PHONE: (630) 437-2927
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: ---

**TRAFFIC SIGNALS SCHEDULE OF QUANTITIES
31ST STREET AND CONCORD DRIVE / TRINITY LANE**

ITEM	UNIT	TOTAL
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	28
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	157
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	496
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	35
DRILL EXISTING HANDHOLE	EACH	1
CONFIRMATION BEACON	EACH	3
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2528
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	192
WIRELESS TRANSMISSION SYSTEM POINT TO POINT	EACH	1
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4
CONCRETE FOUNDATION, TYPE A 10-INCH DIAMETER	FOOT	4
ELECTRIC METER	EACH	1
TERMINAL SERVER	EACH	1
VEHICLE DETECTION SYSTEM, SPECIAL	EACH	1

DESIGNED -	D.M.S.	REVISED -	-
DRAWN -	D.M.S.	REVISED -	-
CHECKED -	D.J.C.	REVISED -	-
DATE -	09-01-2020	REVISED -	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**TRAFFIC SIGNAL CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
31ST STREET AND CONCORD DRIVE / TRINITY LANE**

SCALE: AS SHOWN SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	232
TSS-49		CONTRACT NO. 61G12		
ILLINOIS FED. AID PROJECT				

KNIGHT
Engineers & Architects

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT:

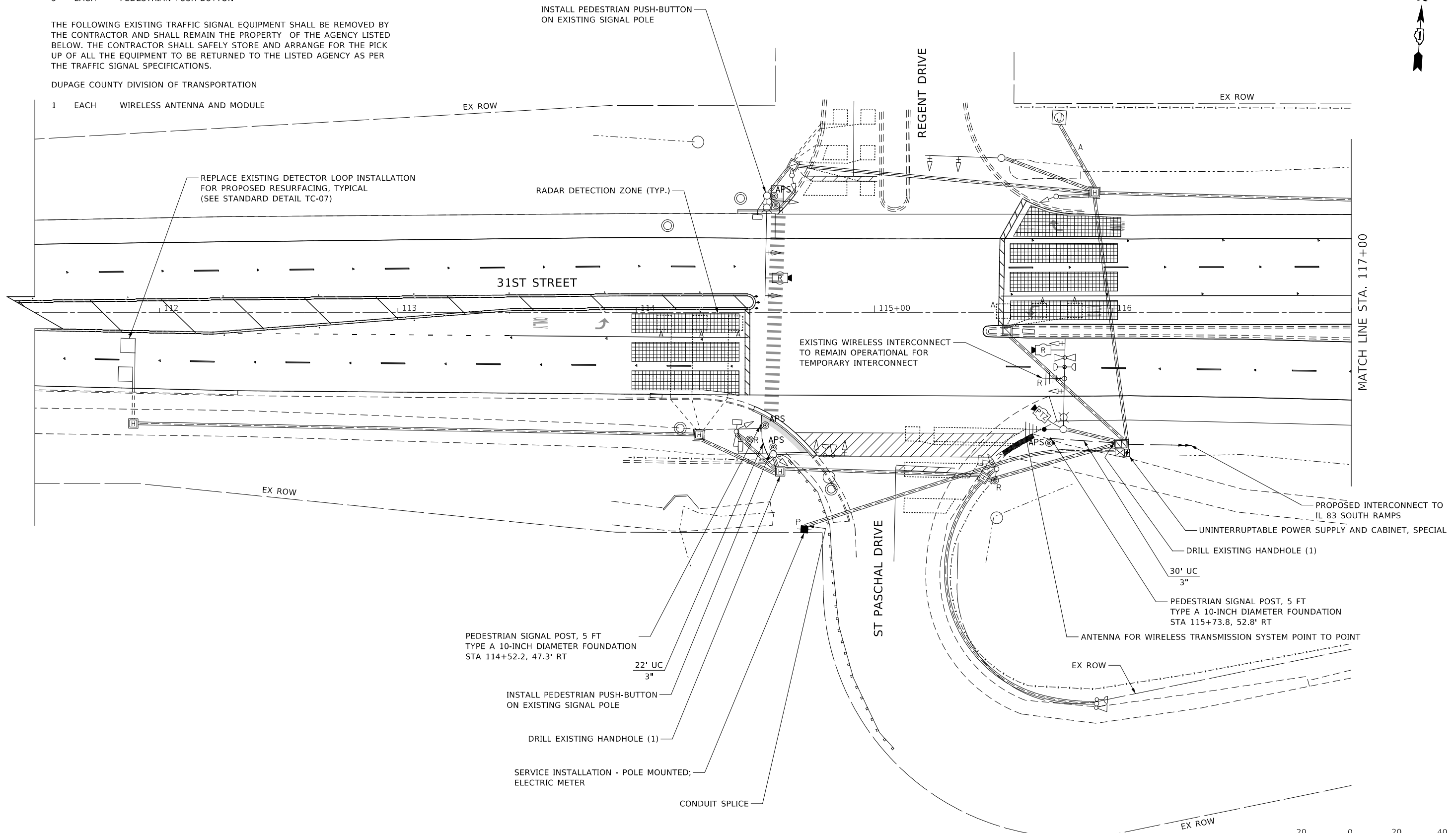
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

3 EACH PEDESTRIAN PUSH-BUTTON

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 AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

DUPAGE COUNTY DIVISION OF TRANSPORTATION

1 EACH WIRELESS ANTENNA AND MODULE



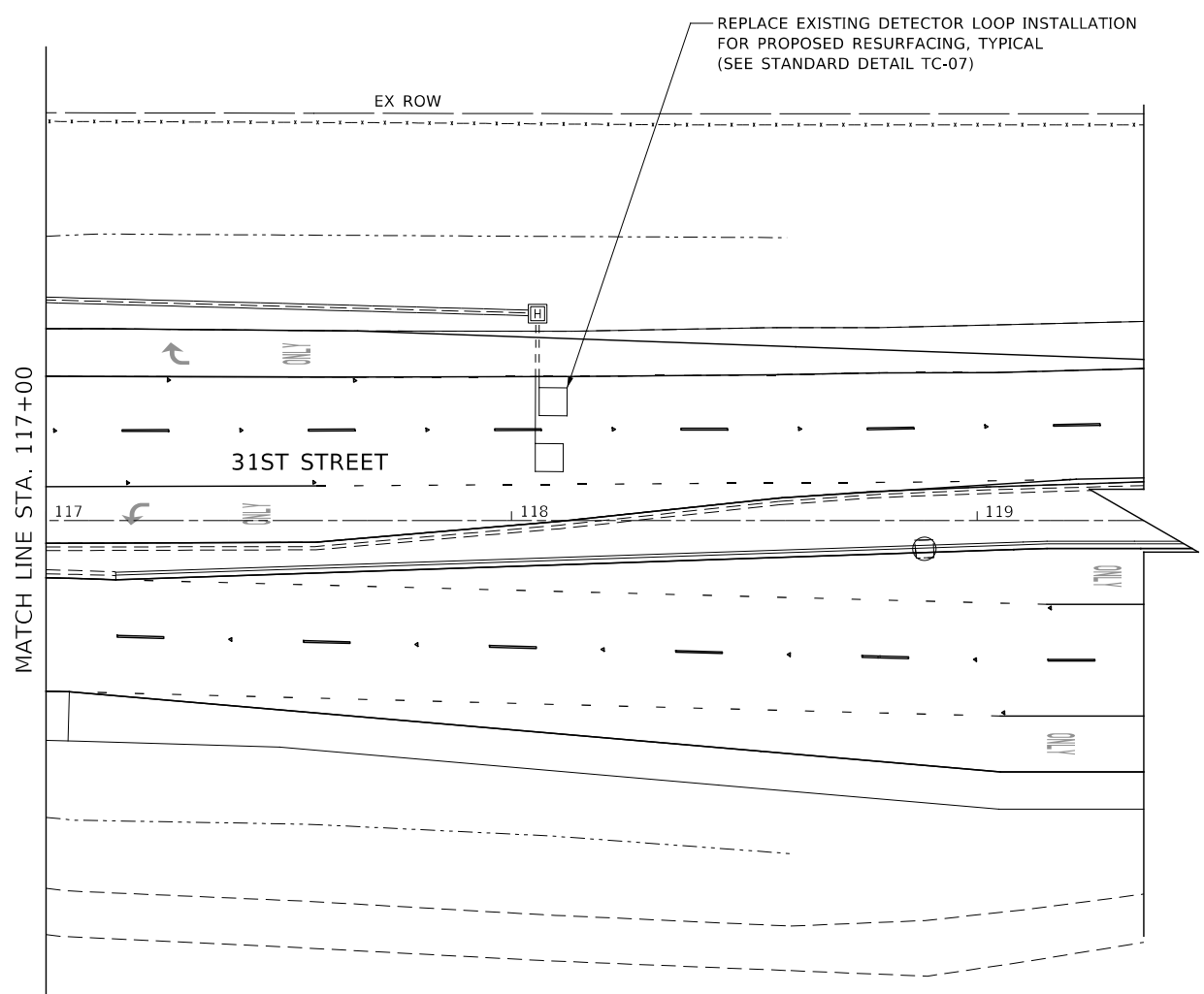
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CHECKED -	D.J.C.	REVISED -	
DATE -	09-01-2020	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL INSTALLATION PLAN
31ST STREET AND ST PASCHAL DRIVE / REGENT DRIVE**

SCALE: AS SHOWN SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	233
TSS-50		CONTRACT NO. 61G12		
ILLINOIS FED. AID PROJECT				



DESIGNED -	D.M.S.	REVISED -	
DRAWN -	D.M.S.	REVISED -	
CHECKED -	D.J.C.	REVISED -	
DATE -	09-01-2020	REVISED -	

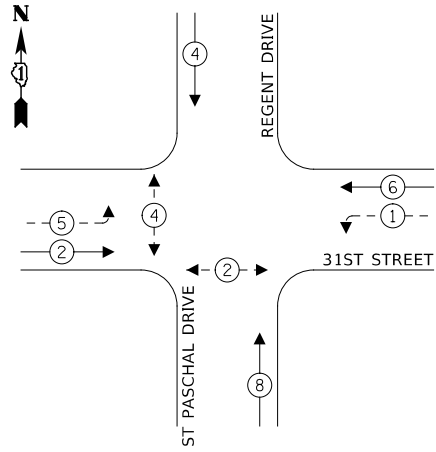
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL INSTALLATION PLAN
31ST STREET AND ST PASCHAL DRIVE / REGENT DRIVE**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	234
TSS-51			CONTRACT NO. 61G12	
ILLINOIS FED. AID PROJECT				

SCALE: AS SHOWN SHEET 2 OF 3 SHEETS STA. TO STA.

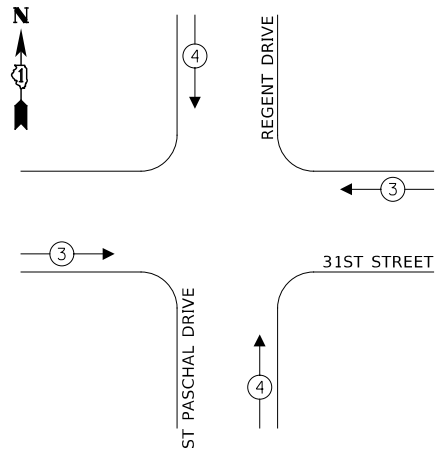
EXISTING AND PROPOSED CONTROLLER SEQUENCE



LEGEND:

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

EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	14	11	50	77.0
(YELLOW)	14	20	5	14.0
(GREEN)	14	12	45	75.6
PERMISSIVE ARROW	12	10	10	12.0
PED. SIGNAL	4	20	100	80.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	2	310	50	310.0
TOTAL =				693.6

ENERGY COSTS TO:

DUPAGE COUNTY DIVISION OF TRANSPORTATION
421 N. COUNTY FARM ROAD
WHEATON, ILLINOIS 60187-2553

ENERGY SUPPLY: CONTACT: ERIC JOSTES
PHONE: (630) 437-2927
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: ---

TRAFFIC SIGNALS SCHEDULE OF QUANTITIES 31ST STREET AND REGENT DRIVE / ST PASCHAL DRIVE		
ITEM	UNIT	TOTAL
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	52
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	470
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	146
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	183
DRILL EXISTING HANDHOLE	EACH	1
DETECTOR LOOP, TYPE I	FOOT	131
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	927
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
RADAR VEHICLE DETECTION SYSTEM	EACH	1
CELLULAR MODEM	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	213
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1
WIRELESS TRANSMISSION SYSTEM POINT TO POINT	EACH	1
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	2
CONDUIT SPLICE	EACH	1
UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4
CONCRETE FOUNDATION, TYPE A 10-INCH DIAMETER	FOOT	8
MODIFY EXISTING CONTROLLER CABINET, SPECIAL	EACH	1
ELECTRIC METER	EACH	1
TERMINAL SERVER	EACH	1

CABLE PLAN
(NOT TO SCALE)

REPLACE EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

PROPOSED WIRELESS BROADBAND INTERCONNECT TO CONCORD DR / TRINITY LANE (WIRELESS TRANSMISSION SYSTEM POINT TO POINT)

REPLACE EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

OUTDOOR RATED NETWORK CABLE

31ST STREET

OUTDOOR RATED NETWORK CABLE

PROPOSED TRACER CABLE

PROPOSED INTERCONNECT TO IL 83 SB RAMPS

SEE NOTES 1, 2, AND 3

EXISTING TYPE IV CABINET WITH PROPOSED UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL

NOTES

- INSTALL A TERMINAL SERVER IN THE EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- INSTALL A LAYER II (DATALINK) SWITCH IN THE TRAFFIC SIGNAL CABINET TO CONNECT THE PTZ CAMERA TO THE DUDOT NETWORK.
- INSTALL A CELLULAR MODEM IN THE TRAFFIC SIGNAL CABINET TO TRANSMIT ETHERNET BASED TRAFFIC DATA AND VIDEO OUTPUT FROM MULTIPLE CAMERAS TO THE DUDOT TRAFFIC CENTER.

KNIGHT
Engineers & Architects

DESIGNED - D.M.S.	REVISED -
DRAWN - D.M.S.	REVISED -
CHECKED - D.J.C.	REVISED -
DATE - 09-01-2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

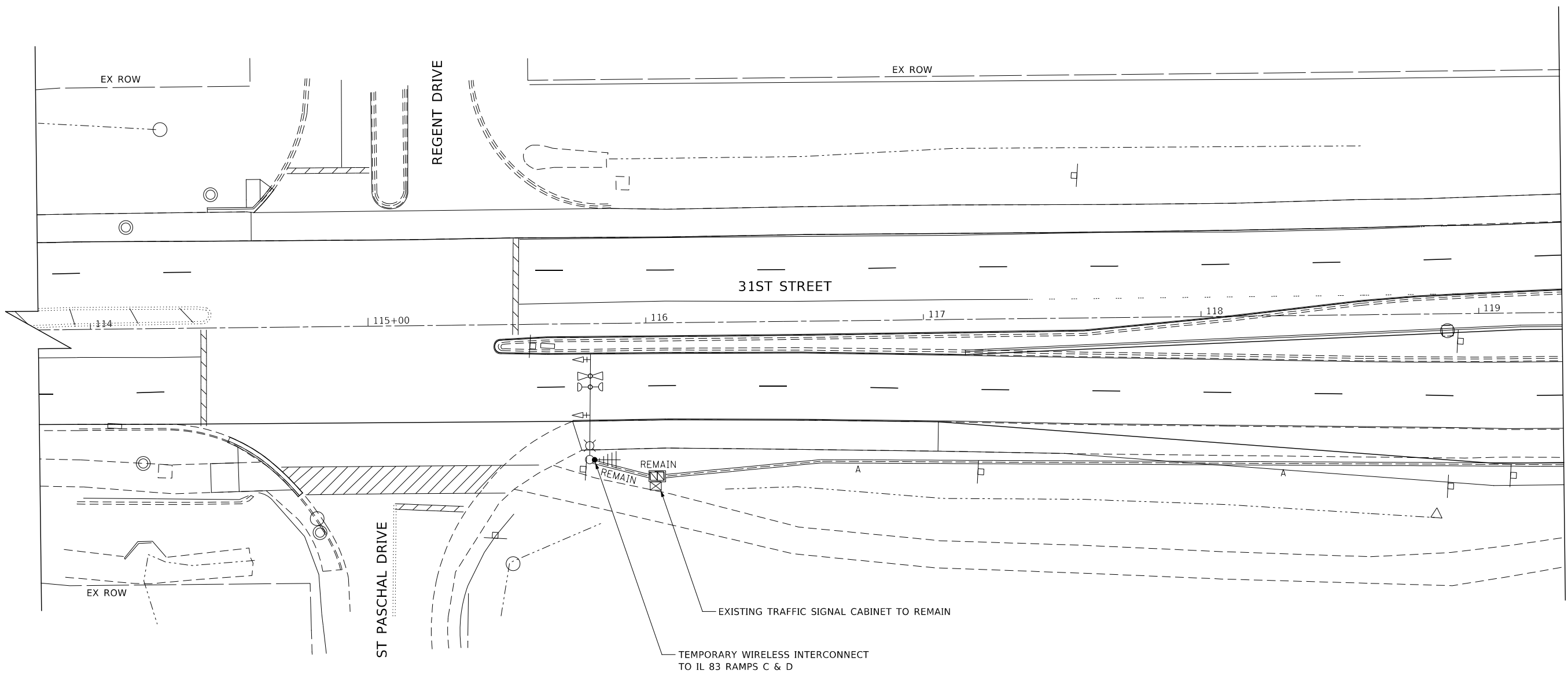
TRAFFIC SIGNAL CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
31ST STREET AND ST PASCHAL DRIVE / REGENT DRIVE

SCALE: AS SHOWN SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	235
TSS-52		CONTRACT NO. 61G12		
ILLINOIS FED. AID PROJECT				



SEE 31ST STREET IL 83 SOUTH RAMP
 TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN



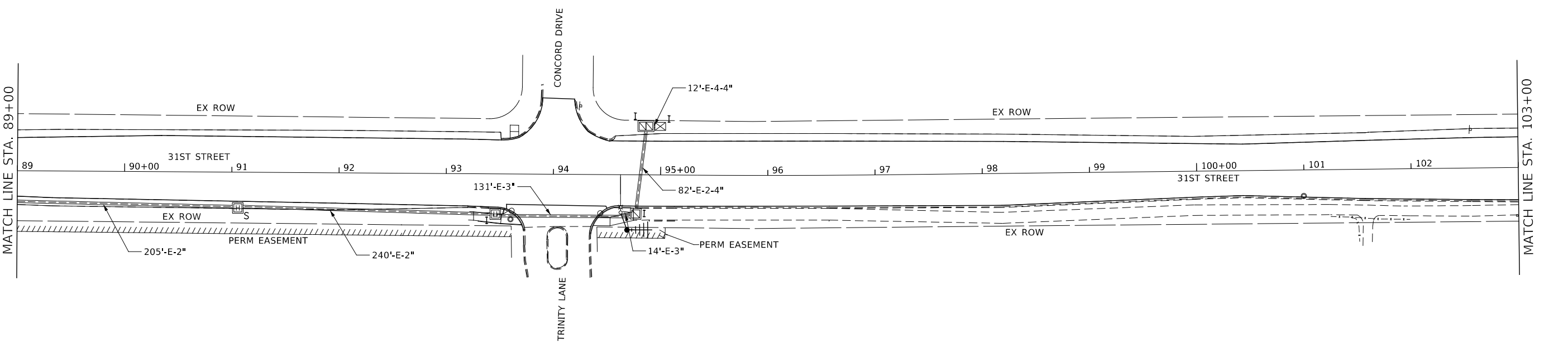
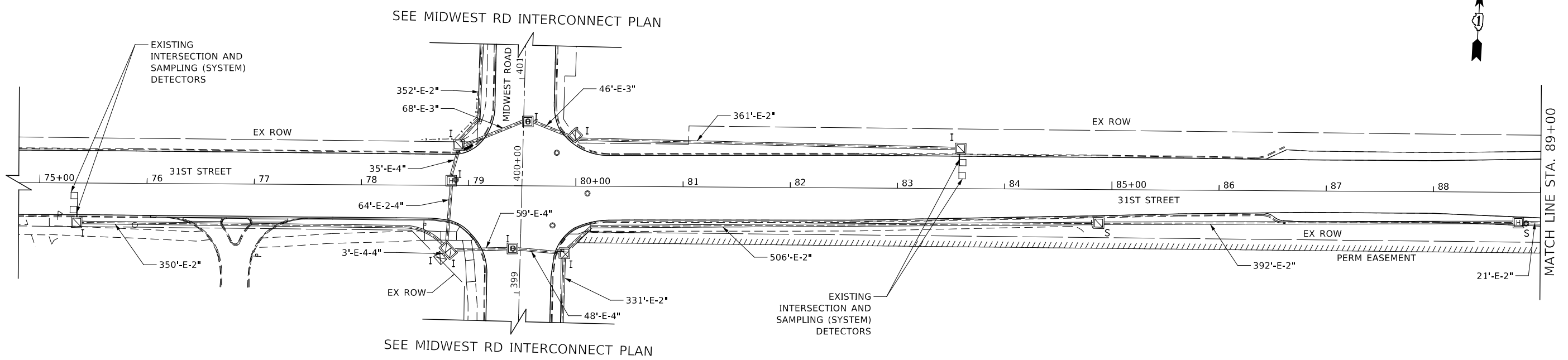
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CHECKED -	D.J.C.	REVISED -	
DATE -	09-01-2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY INTERCONNECT PLAN

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	236
TSS-53		CONTRACT NO. 61G12		
ILLINOIS FED. AID PROJECT				



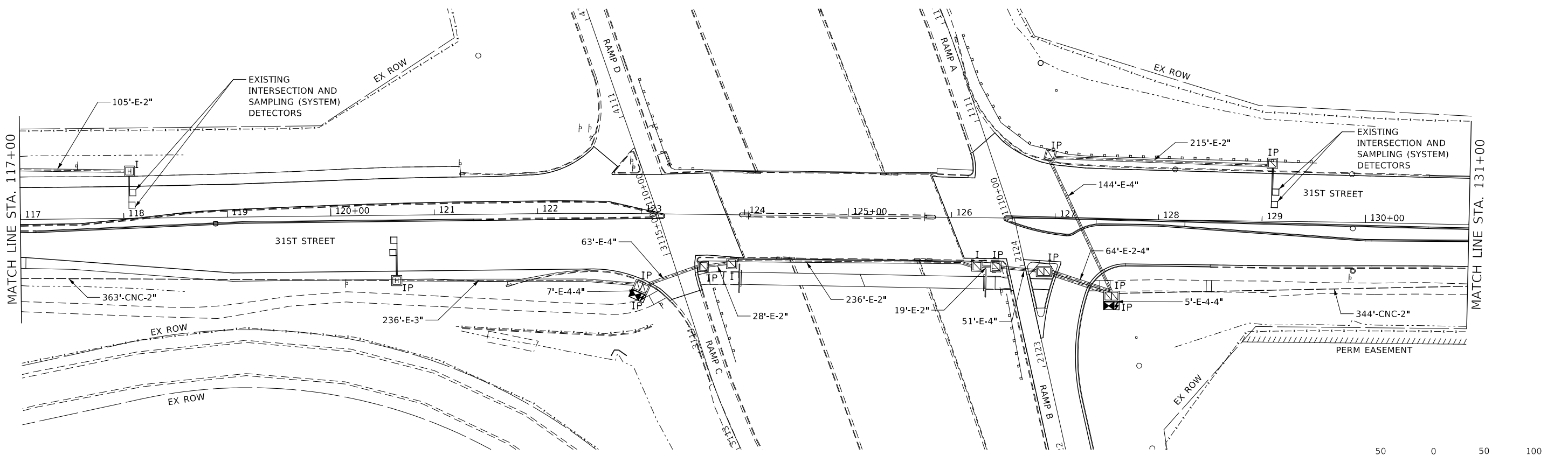
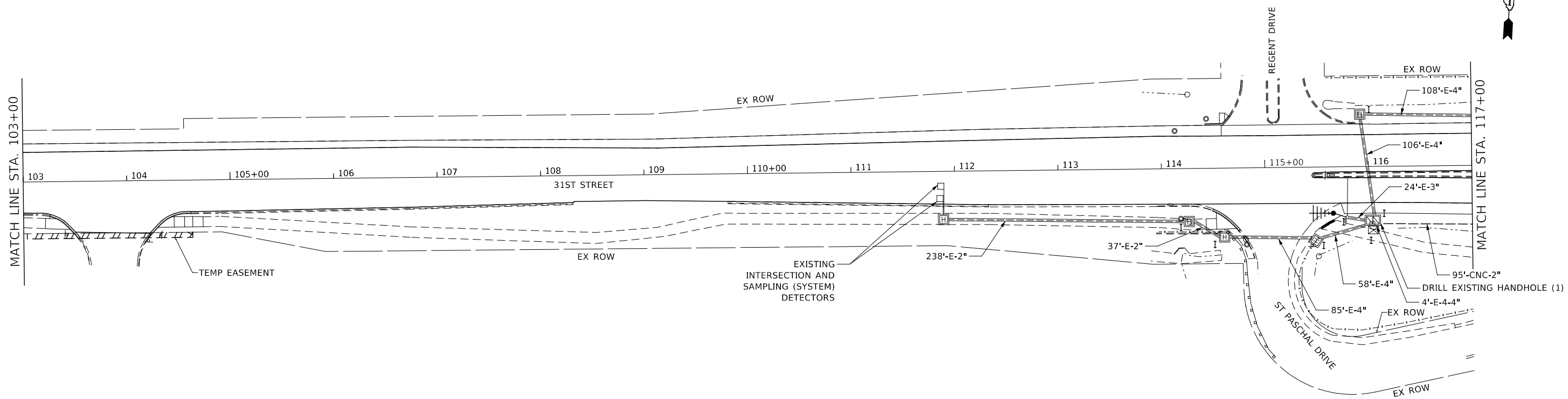
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DRAWN -	D.M.S.	REVISED -	
CHECKED -	D.J.C.	REVISED -	
DATE -	09-01-2020	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED INTERCONNECT PLAN
31ST STREET FROM MIDWEST ROAD TO JORIE BOULEVARD**

SCALE: AS SHOWN SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	237
TSS-54		CONTRACT NO. 61G12		
ILLINOIS FED. AID PROJECT				



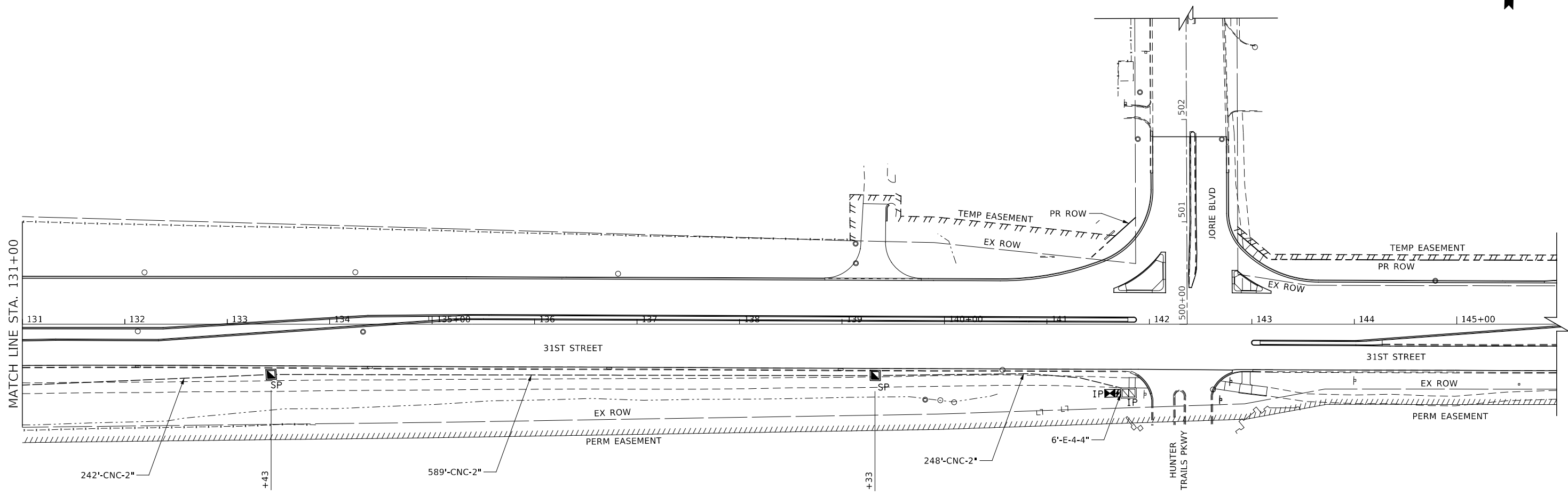
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CHECKED -	D.J.C.	REVISED -	
DATE -	09-01-2020	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED INTERCONNECT PLAN
31ST STREET FROM MIDWEST ROAD TO JORIE BOULEVARD**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	238
TSS-55		CONTRACT NO. 61G12		
		ILLINOIS FED. AID PROJECT		

SCALE: AS SHOWN SHEET 2 OF 4 SHEETS STA. TO STA.



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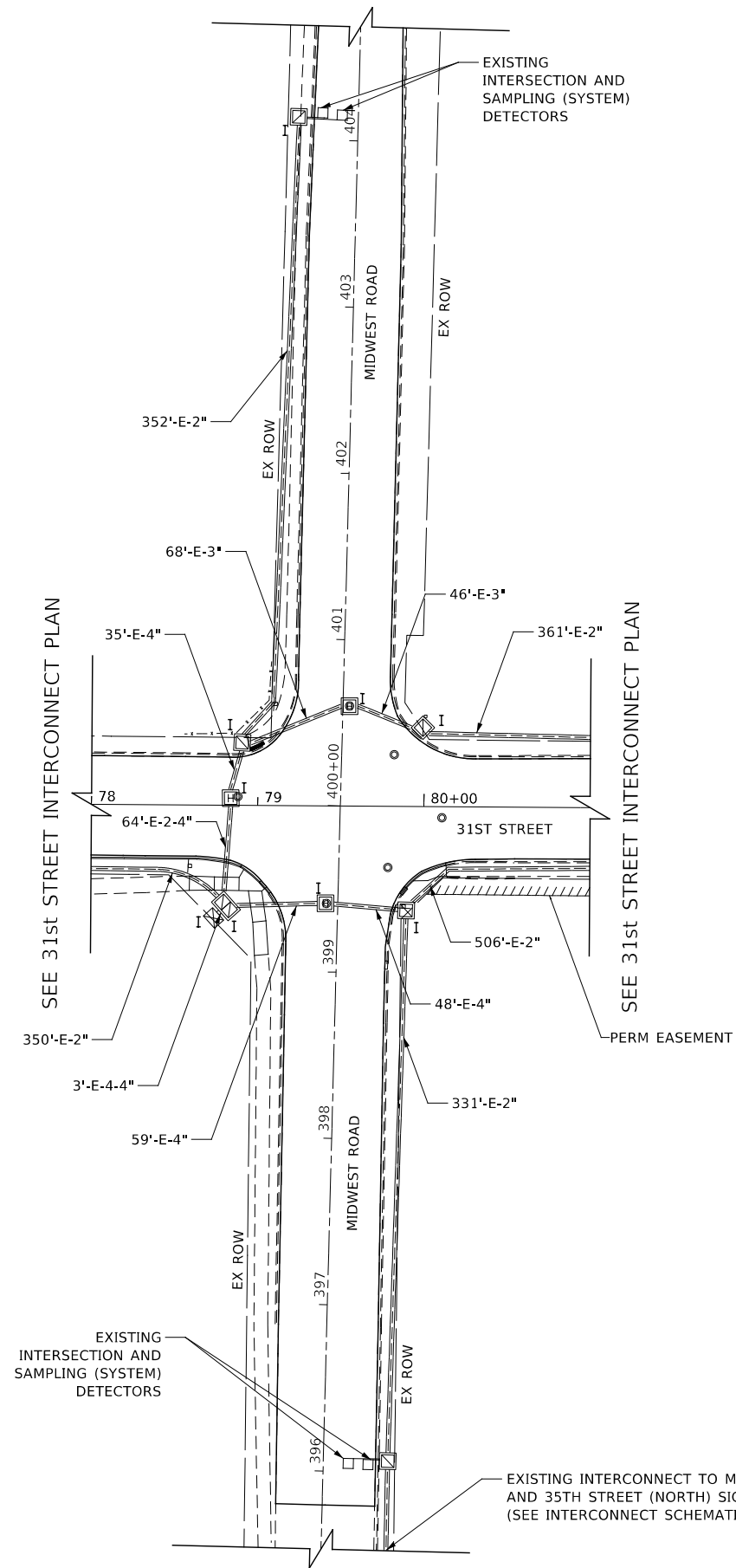
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DRAWN -	D.M.S.	REVISED -	
CHECKED -	D.J.C.	REVISED -	
DATE -	09-01-2020	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED INTERCONNECT PLAN
31ST STREET FROM MIDWEST ROAD TO JORIE BOULEVARD**

SCALE: AS SHOWN SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	239
TSS-56		CONTRACT NO. 61G12		
ILLINOIS FED. AID PROJECT				



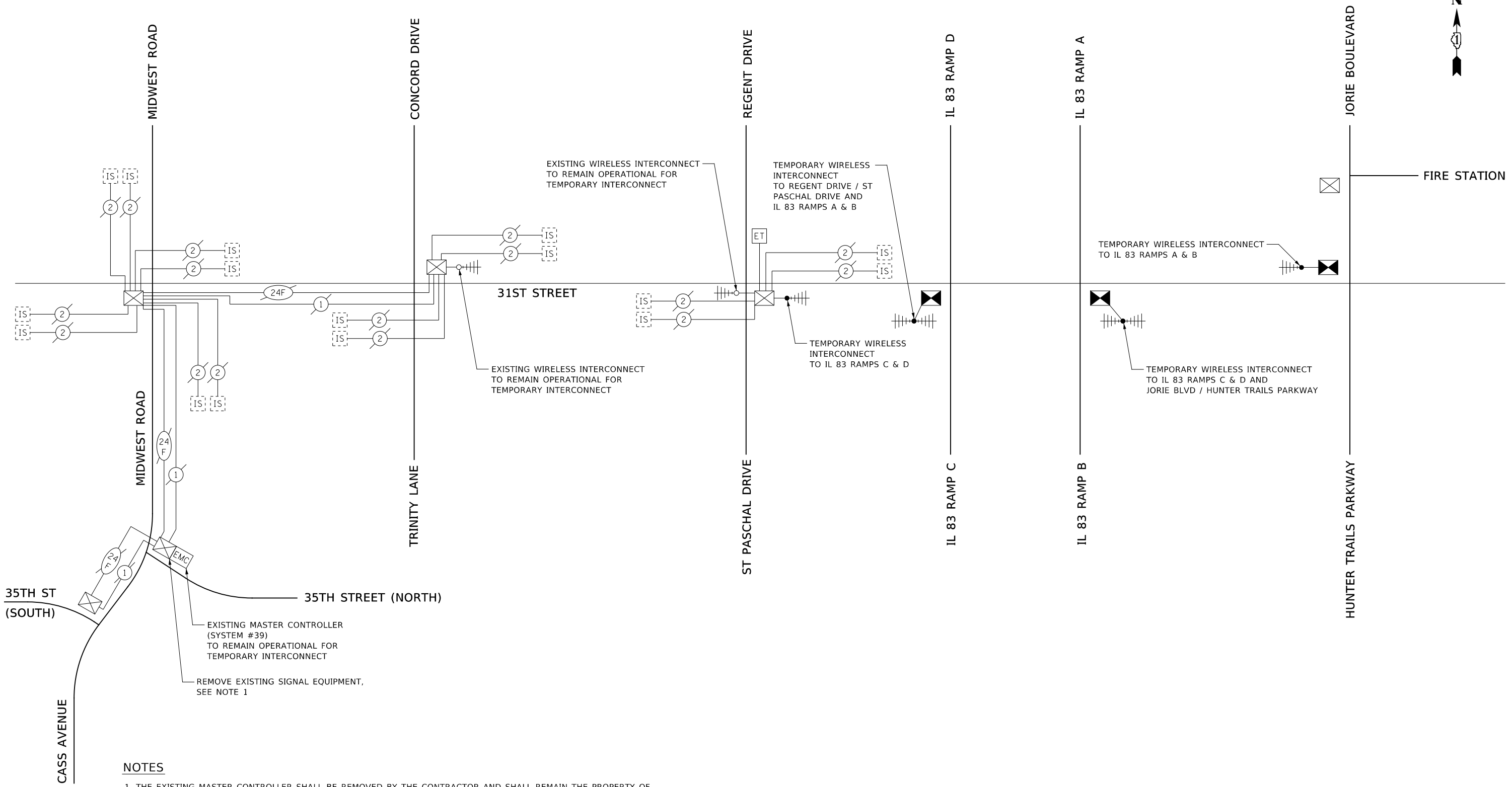
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DRAWN -	D.M.S.	REVISED -	
CHECKED -	D.J.C.	REVISED -	
DATE -	09-01-2020	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED INTERCONNECT PLAN
31ST STREET FROM MIDWEST ROAD TO JORIE BOULEVARD**

SCALE: AS SHOWN SHEET 4 OF 4 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	240
TSS-57			CONTRACT NO. 61G12	
ILLINOIS FED. AID PROJECT				



NOTES

1. THE EXISTING MASTER CONTROLLER SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF DUPAGE COUNTY DIVISION OF TRANSPORTATION. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR THE PICK UP OF ALL THE EQUIPMENT TO BE RETURNED PER THE TRAFFIC SIGNAL SPECIFICATIONS. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE FOR REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT.

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE ECONOLITE NTCIP (LATEST VERSION).



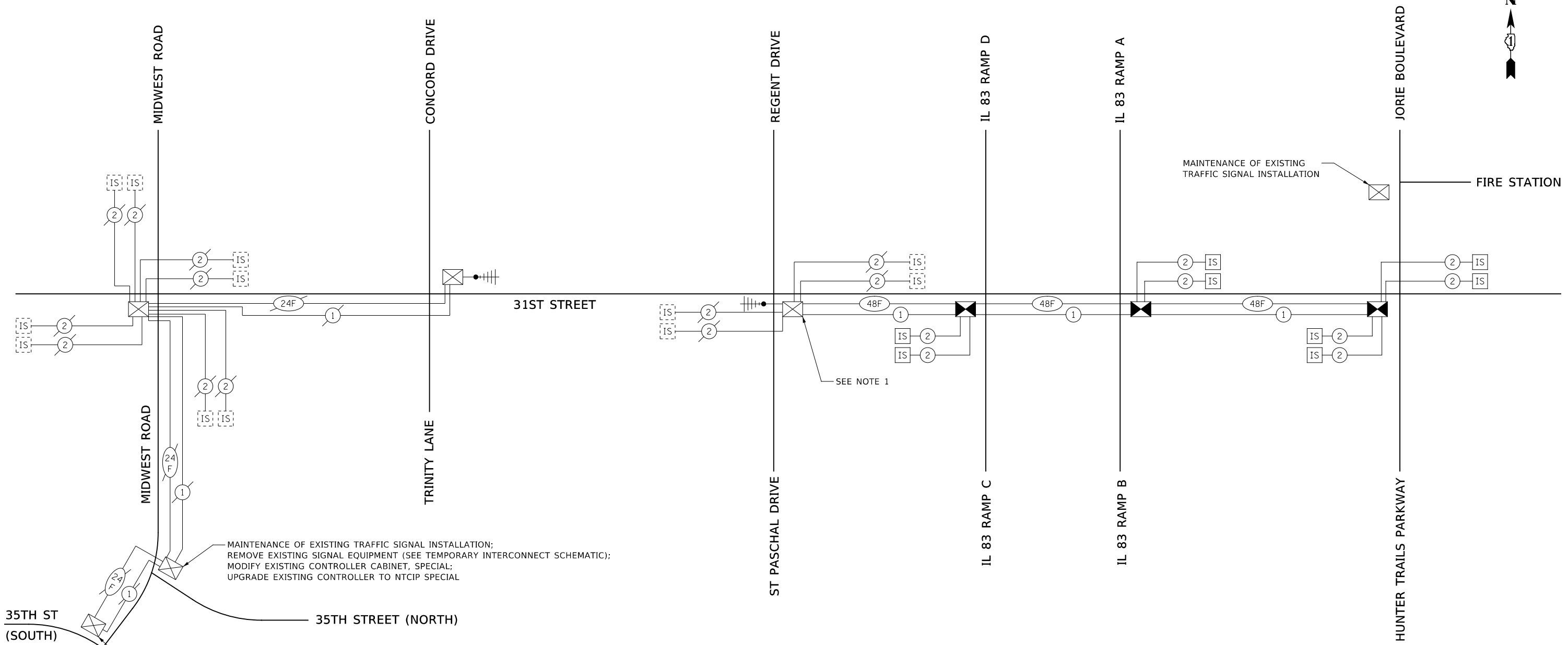
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DRAWN -	D.M.S.	REVISED -	
CHECKED -	D.J.C.	REVISED -	
DATE -	09-01-2020	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY INTERCONNECT SCHEMATIC
31ST STREET FROM MIDWEST ROAD TO JORIE BOULEVARD**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	241
TSS-58		CONTRACT NO. 61G12		
ILLINOIS FED. AID PROJECT				



MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION;
 REMOVE EXISTING SIGNAL EQUIPMENT (SEE TEMPORARY INTERCONNECT SCHEMATIC);
 MODIFY EXISTING CONTROLLER CABINET, SPECIAL;
 UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION;
 MODIFY EXISTING CONTROLLER CABINET, SPECIAL;
 UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL

TRAFFIC SIGNALS SCHEDULE OF QUANTITIES TRAFFIC SIGNAL INTERCONNECT		
ITEM	UNIT	TOTAL
UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA.	FOOT	1881
HANDHOLE	EACH	2
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	3
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	2767
DRILL EXISTING HANDHOLE	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1
UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	2
FIBER OPTIC CABLE 48 FIBERS, SINGLE MODE	FOOT	2813
MODIFY EXISTING CONTROLLER CABINET, SPECIAL	EACH	2

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE ECONOLITE NTCIP (LATEST VERSION).

- NOTES**
- ST. PASCAL DRIVE / REGENT DRIVE REQUIRES A CELLULAR MODEM
SEE TRAFFIC SIGNAL PLAN FOR ADDITIONAL INFORMATION.
 - THE FOLLOWING INTERSECTION CONTROLLERS SHALL BE CONSIDERED INCLUDED IN THE WORK REQUIRED FOR OPTIMIZE TRAFFIC SIGNAL SYSTEM:
 - 31ST STREET AND IL 83 SOUTH RAMPS
 - 31ST STREET AND IL 83 NORTH RAMPS
 - 31ST STREET AND JORIE BLVD / HUNTER TRAILS PKWY
 - 31ST STREET AND TRINITY LANE / CONCORD DRIVE
 - 31ST STREET AND MIDWEST ROAD
 - MIDWEST ROAD AND 35TH STREET (NORTH)
 - MIDWEST ROAD AND 35TH STREET (SOUTH)
 - THE READDRESSING OF ANY SIGNAL CONTROLLER WILL NOT BE MEASURED FOR SEPARATELY FOR PAYMENT AND SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT COST FOR OPTIMIZE TRAFFIC SIGNAL SYSTEM.



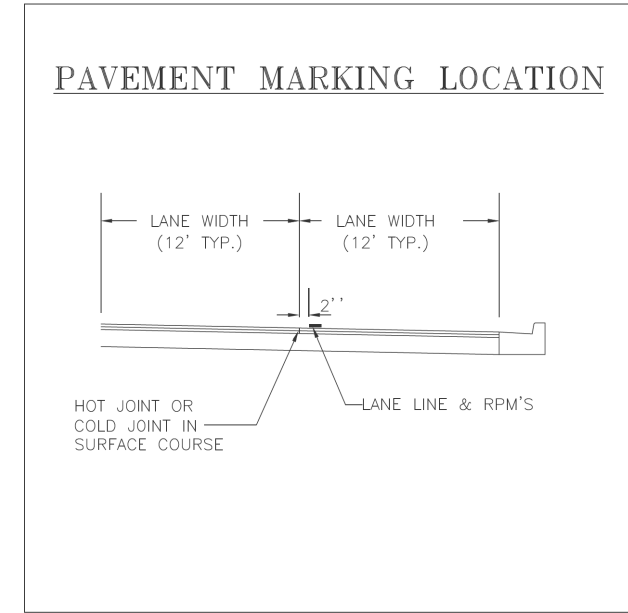
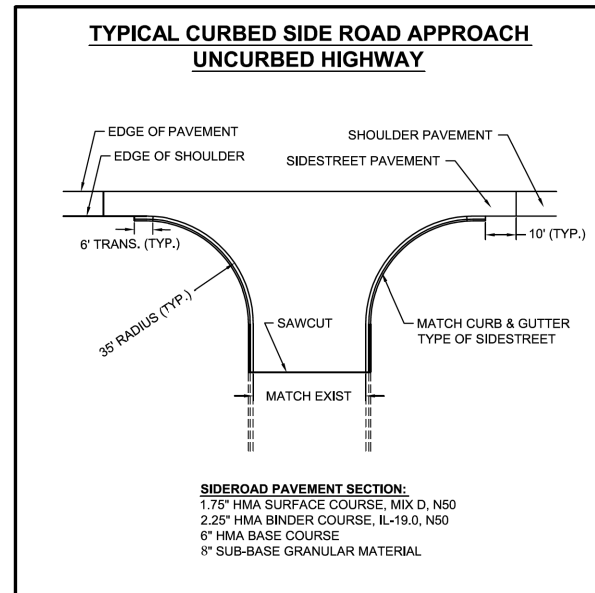
DESIGNED - D.M.S.	REVISED -
DRAWN - D.M.S.	REVISED -
CHECKED - D.J.C.	REVISED -
DATE - 09-01-2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

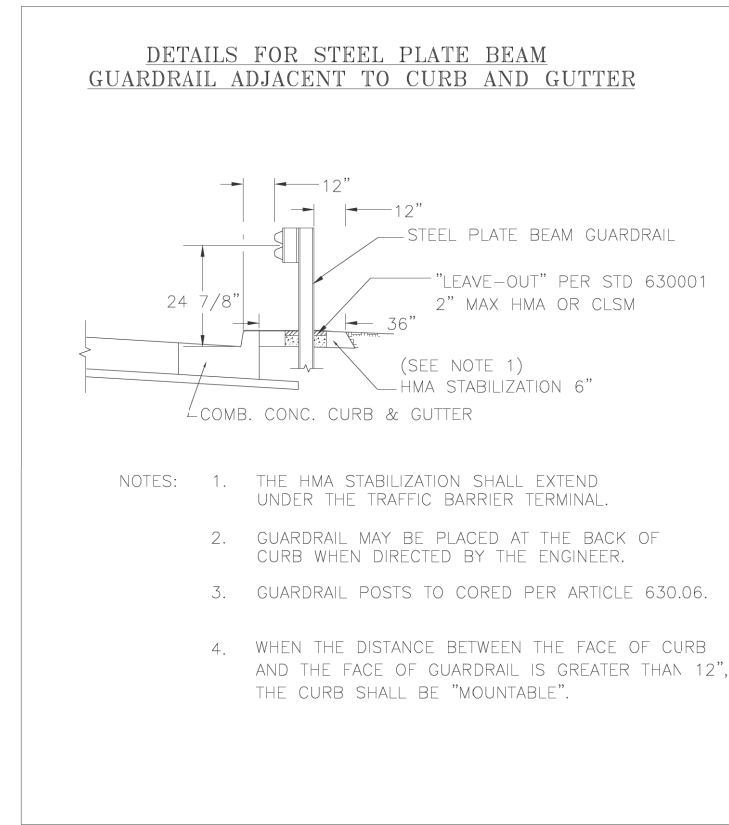
**PERMANENT INTERCONNECT SCHEMATIC
31ST STREET FROM MIDWEST ROAD TO JORIE BOULEVARD**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	242
TSS-59			CONTRACT NO. 61G12	
ILLINOIS FED. AID PROJECT				

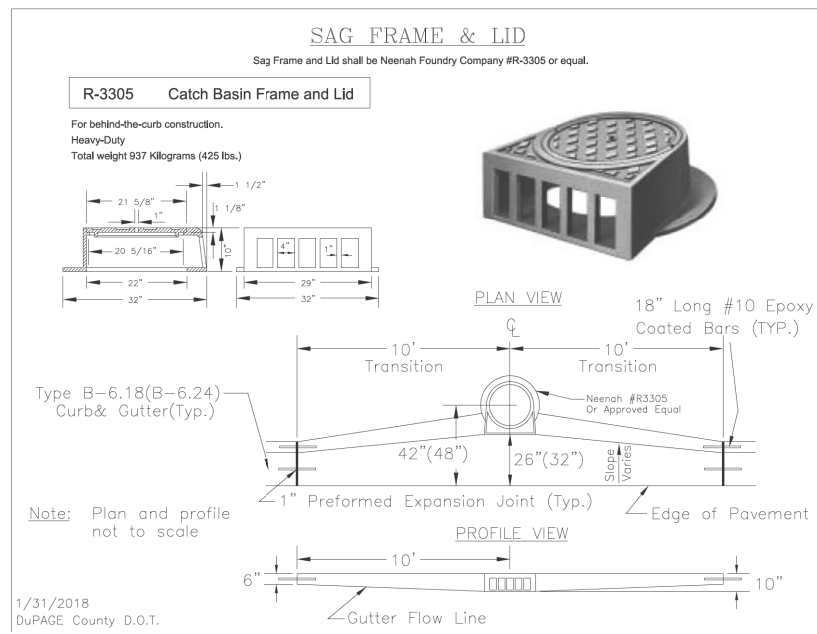


12-14-2017
 DuPage County D.O.T.



- NOTES:
1. THE HMA STABILIZATION SHALL EXTEND UNDER THE TRAFFIC BARRIER TERMINAL.
 2. GUARDRAIL MAY BE PLACED AT THE BACK OF CURB WHEN DIRECTED BY THE ENGINEER.
 3. GUARDRAIL POSTS TO CORED PER ARTICLE 630.06.
 4. WHEN THE DISTANCE BETWEEN THE FACE OF CURB AND THE FACE OF GUARDRAIL IS GREATER THAN 12", THE CURB SHALL BE "MOUNTABLE".

1/29/2018
 DuPAGE COUNTY D.O.T.



1/31/2018
 DuPAGE County D.O.T.



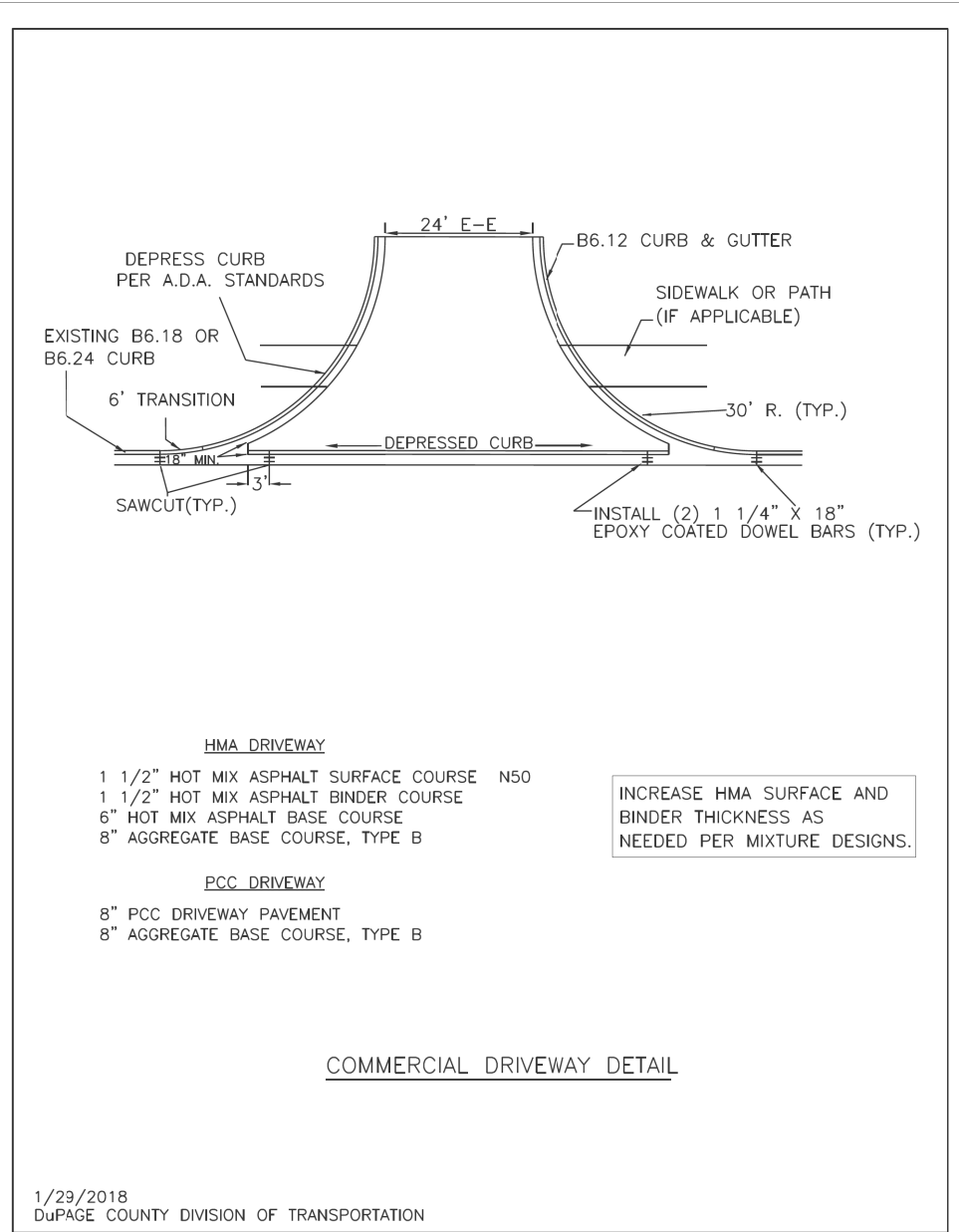
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DRAWN -	D.M.S.	REVISED -	
CHECKED -	D.J.C.	REVISED -	
DATE -	09-01-2020	REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**31ST STREET
 DUPAGE COUNTY DOT STANDARD DETAILS**

SCALE: NONE SHEET 1 OF 4 SHEETS STA. TO STA.

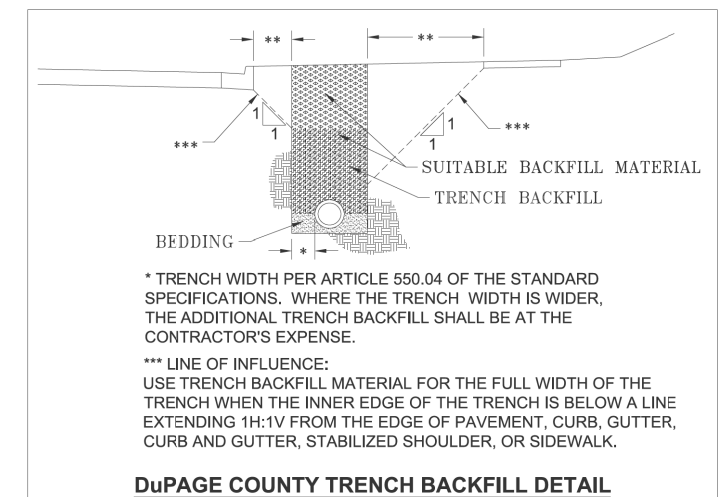
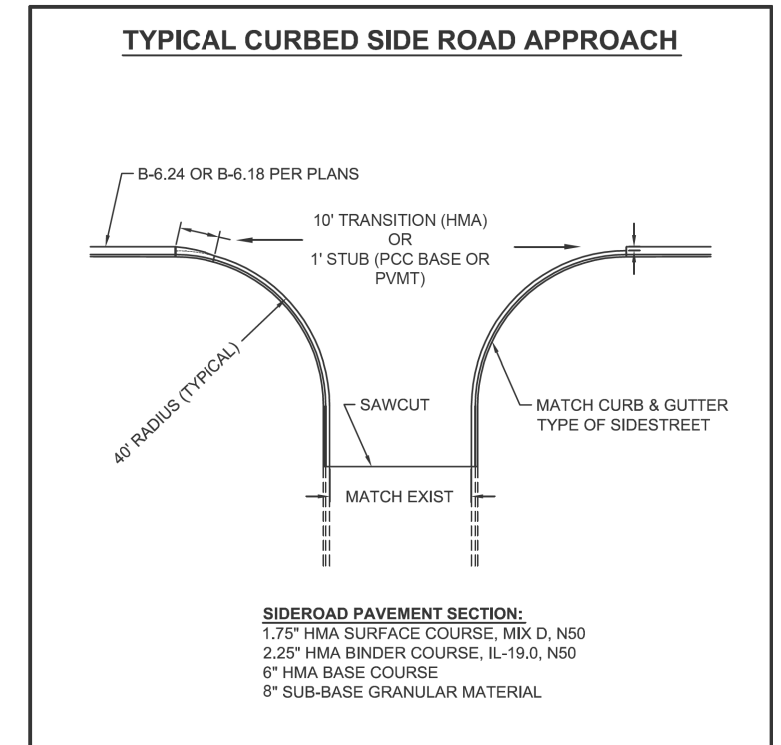
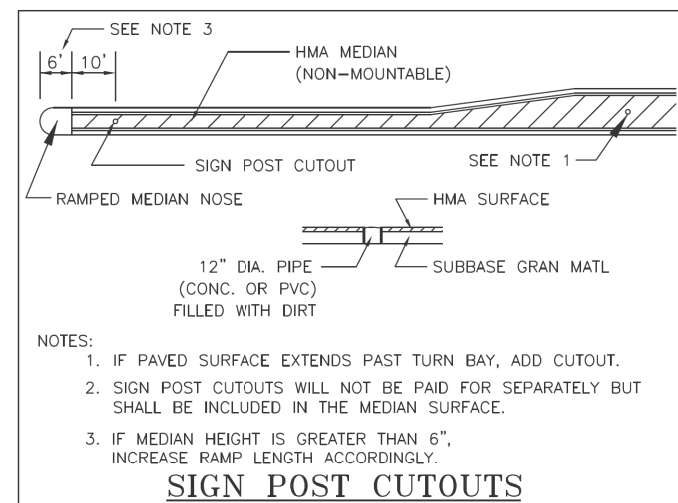
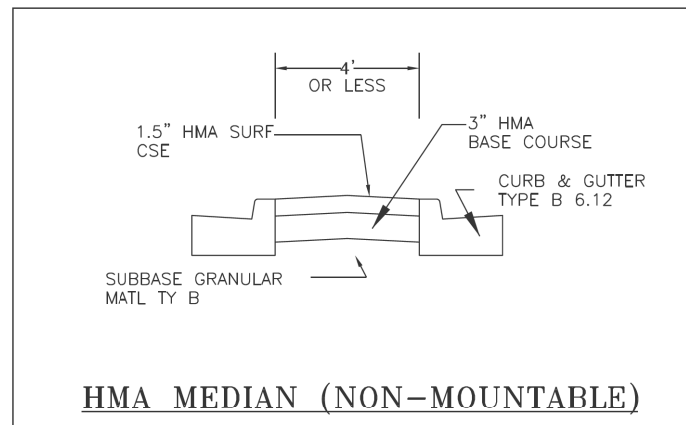
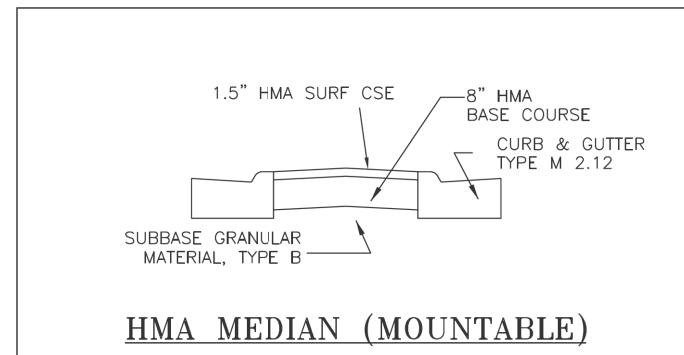
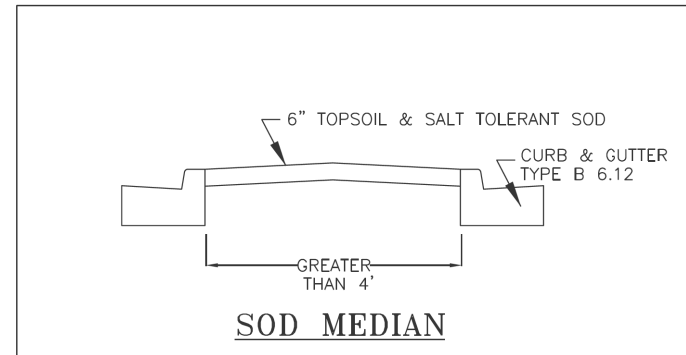
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	243
CONTRACT NO. 61G12				
		ILLINOIS	FED. AID PROJECT	



DESIGNED -	D.M.S.	REVISED -	
DRAWN -	D.M.S.	REVISED -	
CHECKED -	D.J.C.	REVISED -	
DATE -	09-01-2020	REVISED -	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	244
CONTRACT NO. 61G12				
ILLINOIS FED. AID PROJECT				

MEDIAN DETAILS

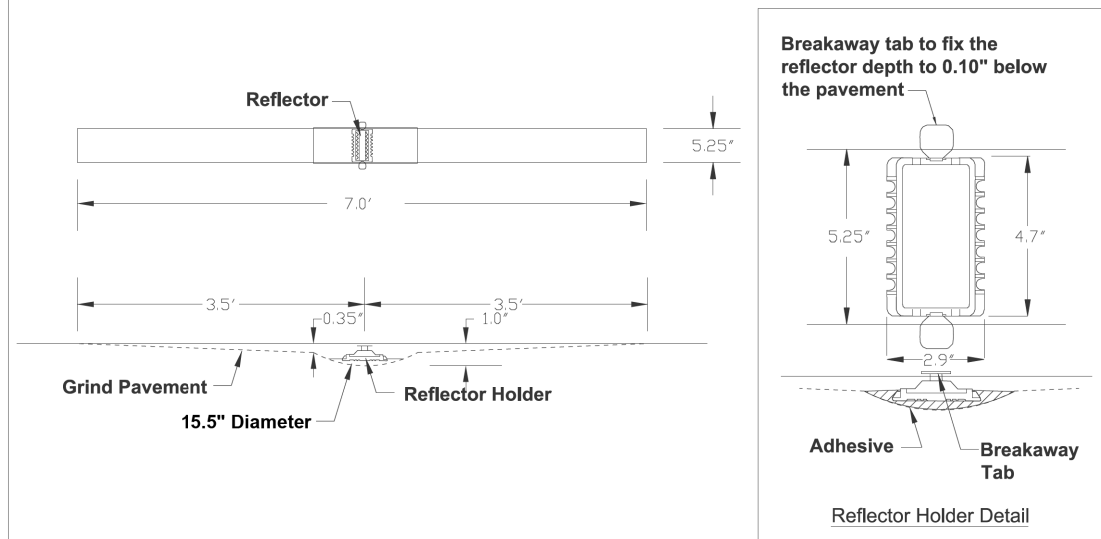


1/30/2018
DuPAGE COUNTY D.O.T.

DESIGNED -	D.M.S.	REVISED -	
DRAWN -	D.M.S.	REVISED -	
CHECKED -	D.J.C.	REVISED -	
DATE -	09-01-2020	REVISED -	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	245
CONTRACT NO. 61G12				
ILLINOIS FED. AID PROJECT				

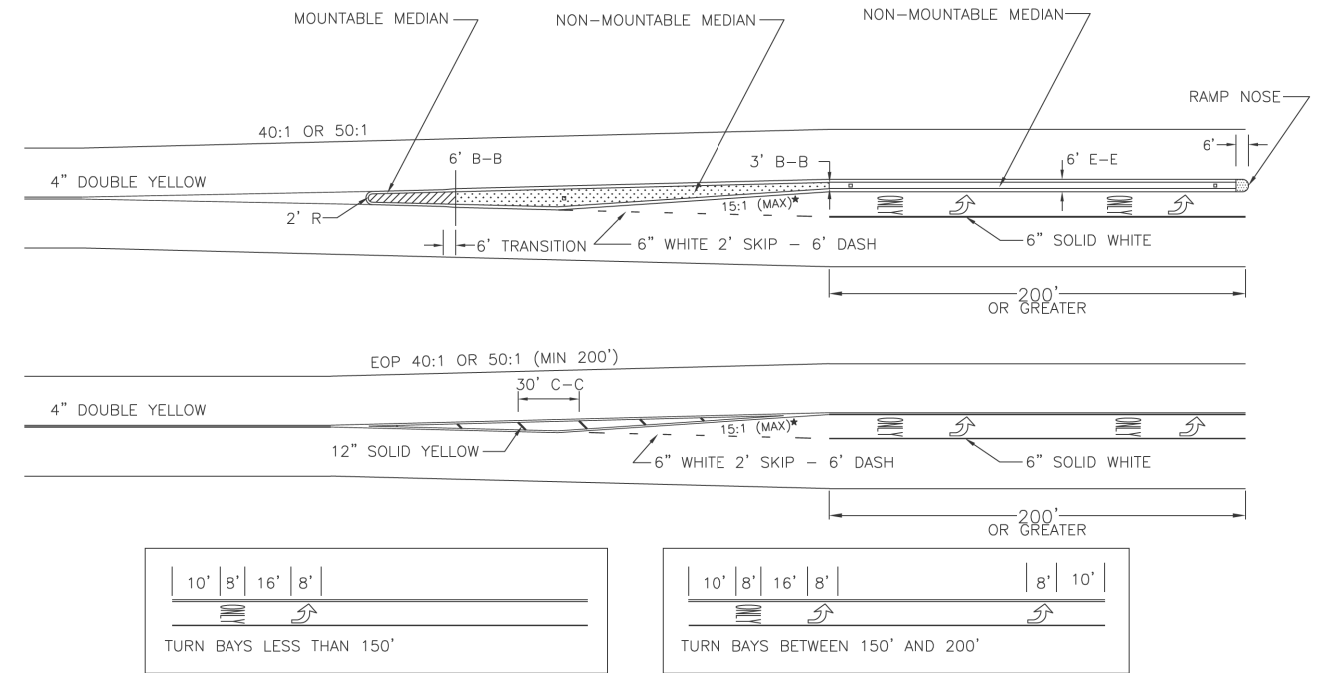
RECESSED PAVEMENT MARKER



1/30/2018
DuPAGE COUNTY D.O.T.

TYPICAL TURN BAYS

- NOTES:**
1. SEE MEDIAN DETAILS FOR MEDIAN DEPTH DESIGN, CURB TYPE, AND SIGN POST CUTOUTS.
*ADJUST FOR CURVE SECTION (12:1/10:1)



PAVEMENT MARKINGS AND PAVEMENT MARKERS

MATERIALS FOR PAVEMENT MARKINGS:

LOCATION	MATERIAL
ALL MARKINGS ON BITUMINOUS PAVEMENT	THERMOPLASTIC PAVEMENT MARKINGS
ALL MARKINGS ON CONCRETE SURFACES	URETHANE PAVEMENT MARKINGS

INSTALLATION OF PAVEMENT MARKINGS:

LOCATION	TYPE OF MARKING
PAINTED MEDIANS	4\"/>

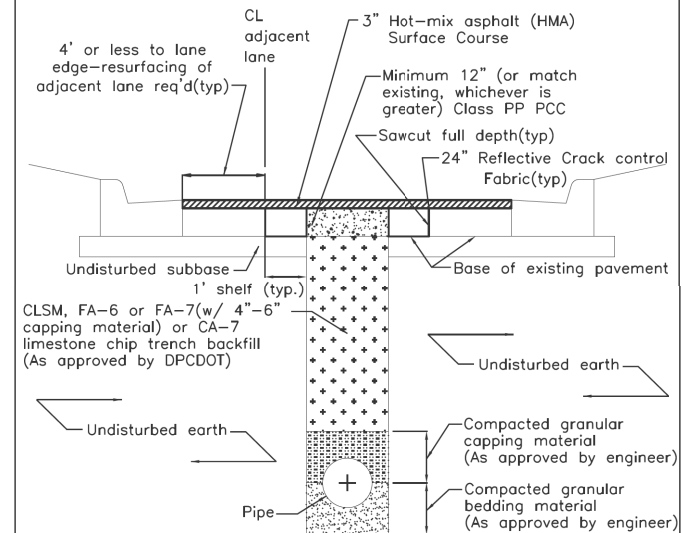
INSTALLATION OF RECESSED REFLECTIVE PAVEMENT MARKERS:

LOCATION	SPACING
DOUBLE YELLOW CENTERLINE, & SKIP-DASH WHITE LANE LINES	40'
APPROACH & DEPARTURE FROM INTERSECTIONS & CURVES* * EQUAL TO LENGTH OF TURN BAY, OR 200'	40'
ALONG CURVES OR TAPERS	40'
TANGENT SECTIONS	40'
SOLID LANE LINES (TURN BAYS)	40'
END OF PAINTED MEDIANS	3 @ 3' LATERAL

LOCATION	TYPE
DOUBLE YELLOW CENTERLINE	2-WAY YELLOW
PAINTED MEDIANS ≤ 4' WIDE	2-WAY YELLOW
PAINTED MEDIANS > 4' WIDE	1-WAY YELLOW
YELLOW LINE ALONG BARRIER MEDIANS ** EXCEPT IN SPECIAL CIRCUMSTANCES	NONE **
SKIP-DASH WHITE LANE LINES, SOLID LANE LINES (TURN BAYS)	1-WAY WHITE
2-WAY, UNDIVIDED ROADWAY	2-WAY WHITE / RED
1-WAY ROADWAY, OR DIVIDED WITH BARRIER MEDIAN	2-WAY WHITE / RED

1/30/2018
DuPAGE COUNTY D.O.T.

DUPAGE COUNTY DIVISION OF TRANSPORTATION TRENCH BACKFILL STANDARD IN PAVED AREAS



Notes:

- All materials per IDOT's "Standard Specifications for Road & Bridge Construction" (latest edition) and "Supplemental Recurring Special Provisions" (latest edition).
- Replace all pavement markings, striping, symbols and pavement markers in kind.

KNIGHT
Engineers & Architects

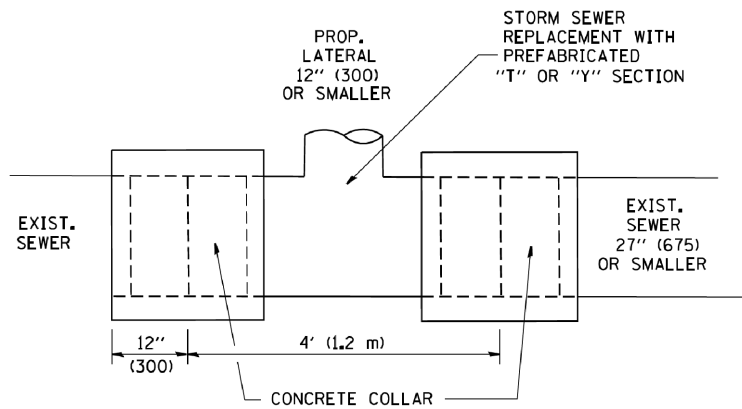
DESIGNED -	D.M.S.	REVISED -	
DRAWN -	D.M.S.	REVISED -	
CHECKED -	D.J.C.	REVISED -	
DATE -	09-01-2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

31ST STREET
DUPAGE COUNTY DOT STANDARD DETAILS

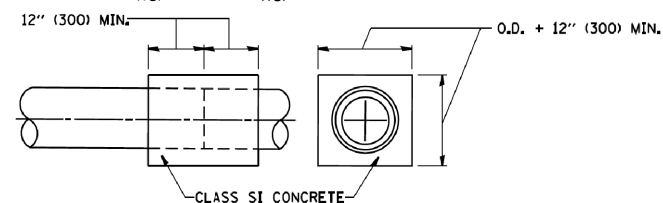
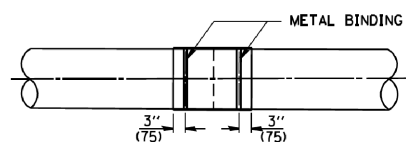
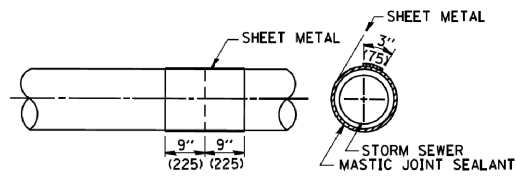
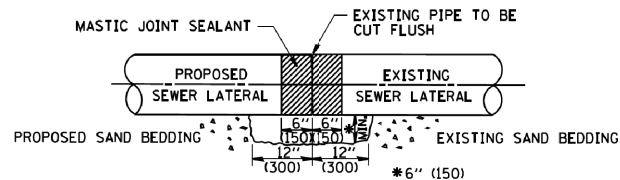
SCALE: NONE SHEET 4 OF 4 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	246
CONTRACT NO. 61G12				
ILLINOIS FED. AID PROJECT				



DETAIL "A"

LATERAL CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER

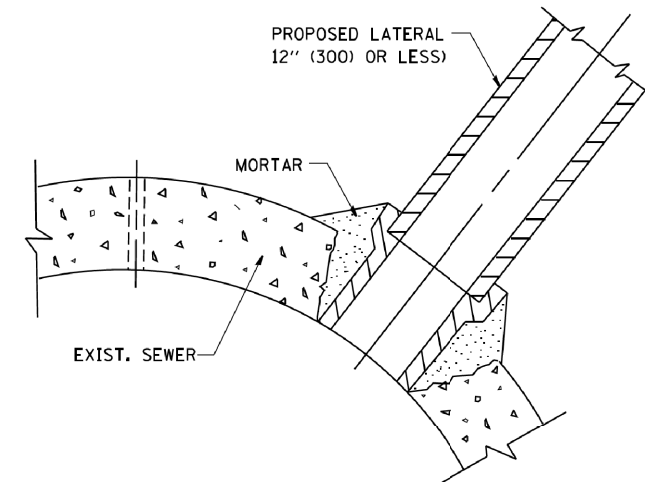


DETAIL "B"

CLASS SI CONCRETE COLLAR

CONSTRUCTION SEQUENCE

1. CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
2. APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" (150) OF EACH PIPE.
3. BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12" x 6" (300 x 150) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
4. CUT A PIECE OF SHEET METAL GAGE NO. 19 1.1 (0.0418) 18" (450) WIDE BY THE OUTSIDE CIRCUMFERENCE OF THE PIPE PLUS 3" (75) LONG.
5. WRAP THE SHEET METAL AROUND THE PIPES, 9" (225) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
6. LAP THE SHEET METAL AT LEAST 3" (75) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.
7. PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
8. WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OOOZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
9. PLACE CLASS SI CONCRETE AROUND THE JOINT.



DETAIL "C"

PROPOSED LATERAL CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER

NOTES

MATERIAL

MATERIAL USED FOR THE TEE OR WYE SECTION SHALL BE COMPATIBLE WITH THE EXISTING STORM SEWER OR THE PROPOSED STORM SEWER.

CONSTRUCTION METHODS

- THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.
- CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:
 - PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "B".
 - PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

IF THE EXISTING SEWER PIPE IS CRACKED, BROKEN OR OTHERWISE DAMAGED BY THE CONTRACTOR IN MAKING THE CIRCULAR OPENING, THE CONTRACTOR SHALL REPLACE THAT SECTION OF PIPE WITH PIPE EQUAL AND SIMILAR IN ALL RESPECTS TO THE PIPE IN THE EXISTING SEWER, IN A CAREFUL WORKMANLIKE MANNER, WITHOUT EXTRA COMPENSATION.

GENERAL

CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.

CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

BASIS OF PAYMENT

TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS, THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REQUIRED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.

REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.

TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.

CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

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



USER NAME = gaglianob
PLOT SCALE = 50.000' / 1" IN.
PLOT DATE = 1/4/2008

DESIGNED - M. DE YONG
DRAWN -
CHECKED -
DATE - 07-25-90

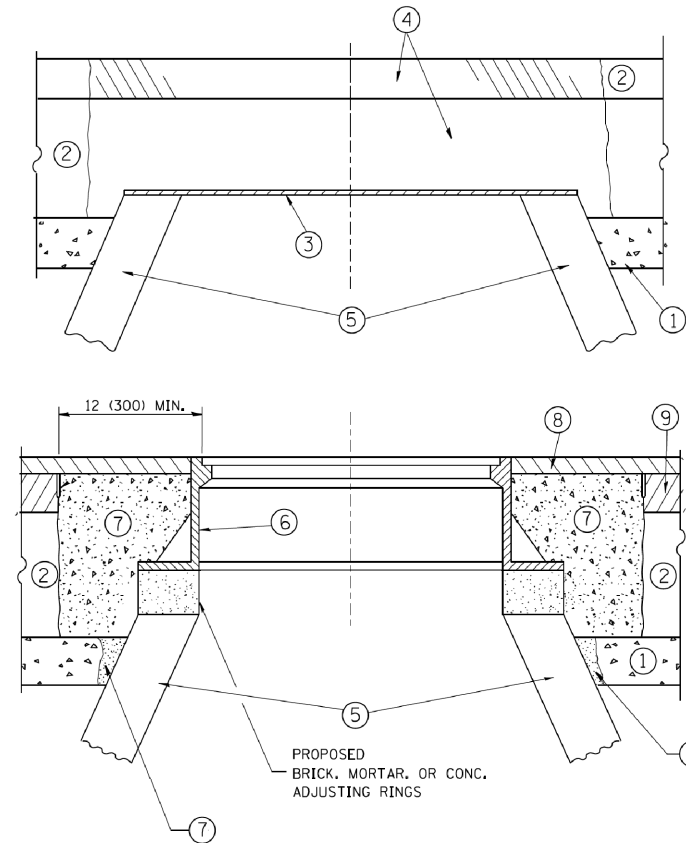
REVISED - M. DE YONG 05-08-92
REVISED - R. SHAH 09-09-94
REVISED - R. SHAH 10-25-94
REVISED - R. SHAH 06-12-96

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETAIL OF STORM SEWER
CONNECTION TO EXISTING SEWER**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	247
BD500-01 (BD-7)		CONTRACT NO.		
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				



CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1/2 (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-1* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE ENGINEER."

LEGEND

- ① SUB-BASE GRANULAR MATERIAL
- ② EXISTING PAVEMENT
- ③ 36 (900) DIAMETER METAL PLATE
- ④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- ⑤ EXISTING STRUCTURE
- ⑥ FRAME AND LID (SEE NOTES)
- ⑦ CLASS PP-1* CONCRETE
- ⑧ PROPOSED HMA SURFACE COURSE
- ⑨ PROPOSED HMA BINDER COURSE

LOCATION OF STRUCTURES:

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT:

REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."

THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

NOTES:

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

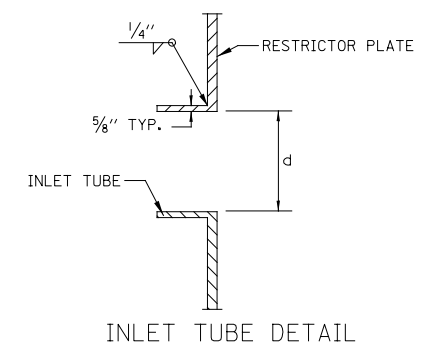
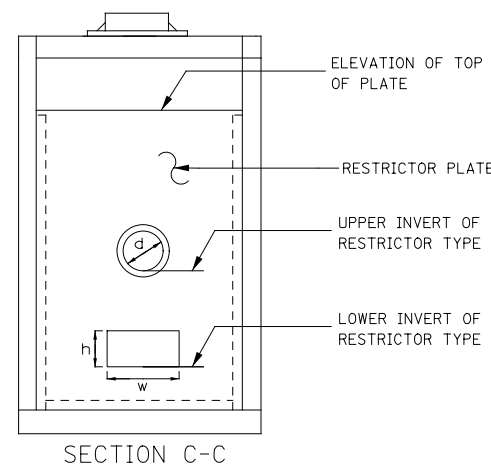
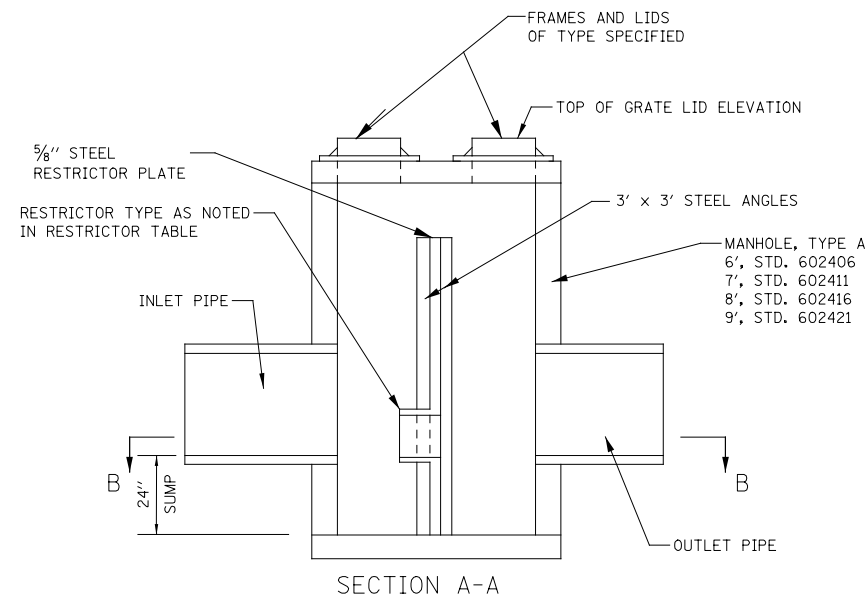
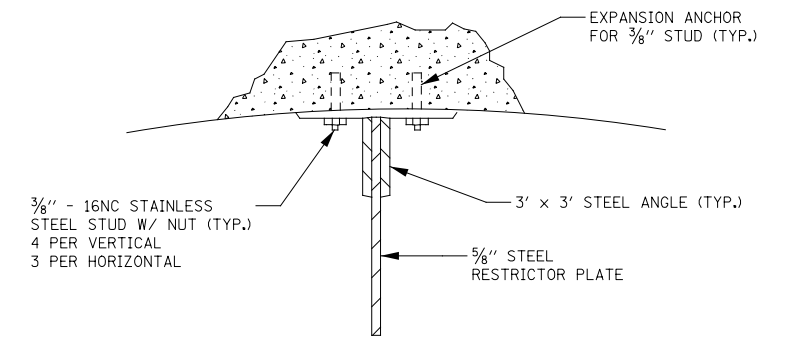
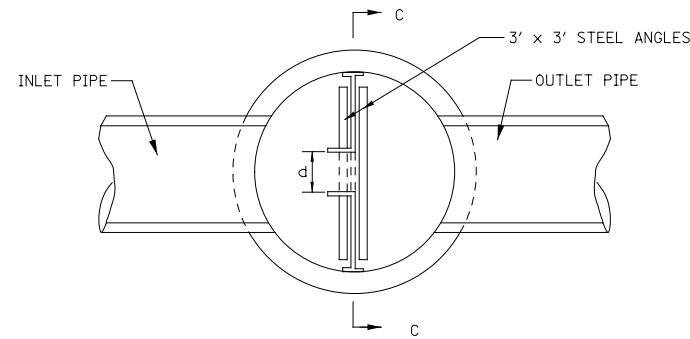
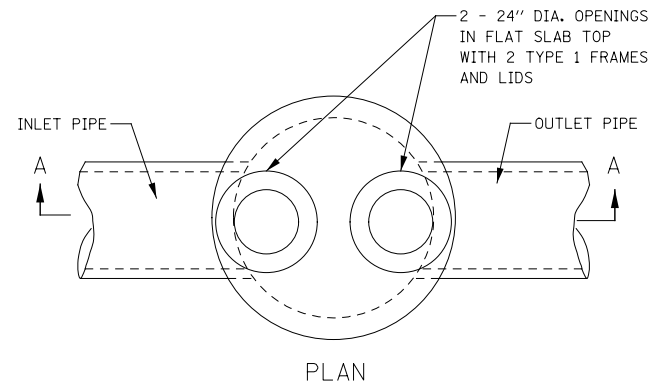
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

	USER NAME = bauerdl	DESIGNED - R. SHAH	REVISED - R. WIEDEMAN 05-14-04
		DRAWN -	REVISED - R. BORO 01-01-07
	PLOT SCALE = 1/8" = 1'-0"	CHECKED -	REVISED - R. BORO 03-09-11
	PLOT DATE = 12/6/2011	DATE - 10-25-94	REVISED - R. BORO 12-06-11

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

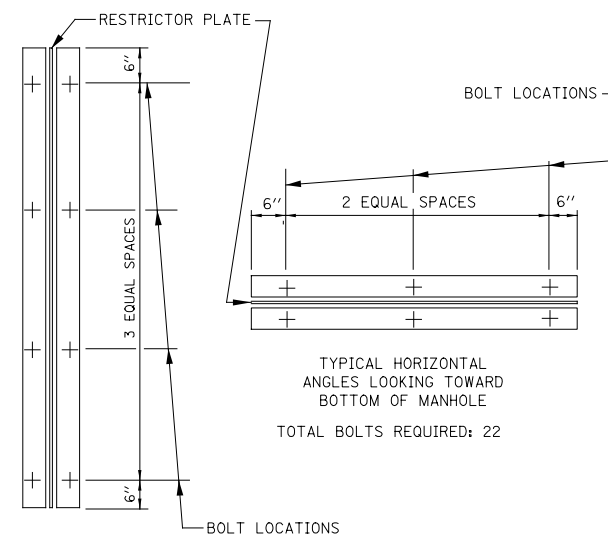
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	248
BD600-03 (BD-8)		CONTRACT NO.		
<small>FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT</small>				



- NOTES:
1. VERTICAL ANGLES SHOULD EXTEND FROM THE BOTTOM OF THE RESTRICTOR PLATE TO THE TOP.
 2. HORIZONTAL ANGLES SHOULD EXTEND FROM VERTICAL ANGLE TO VERTICAL ANGLE.
 3. ALL STEEL ANGLES AND PLATES TO BE GALVANIZED AFTER FABRICATION.

STR NO.*	PAY ITEM	MANHOLE DIAMETER	FRAME AND LID	RESTRICTOR TYPE	INSIDE RESTRICTOR TYPE DIAMETER In (mm) (d)	INVERT OF RESTRICTOR TYPE	ELEVATION OF TOP OF PLATE OVERFLOW
25	MH TA 6D W/2 T1FCL RP (X6020036)	6'	T1-CL	2	14.3"	681.49	686.70
46	MH TA 6D W/2 T1FCL RP (X6020036)	6'	T1-CL	2	22.3"	688.13	691.90

* REFER TO PROPOSED STRUCTURE SCHEDULE FOR STRUCTURE STATION, OFFSET, RIM ELEVATION, AND INVERTS.



1	2	3	4	5	6
RE-ENTRANT TUBE	SHARP EDGES	SQUARE EDGED	RE-ENTRANT TUBE	SQUARE EDGED	ROUNDED
LENGTH: 1/2 TO 1 DIA.		LENGTH: 1 TO 2 DIA.	LENGTH: 2-1/2 DIA.	LENGTH: 2-1/2 DIA.	
C=.52	C=.61	C=.61	C=.73	C=.82	C=.98

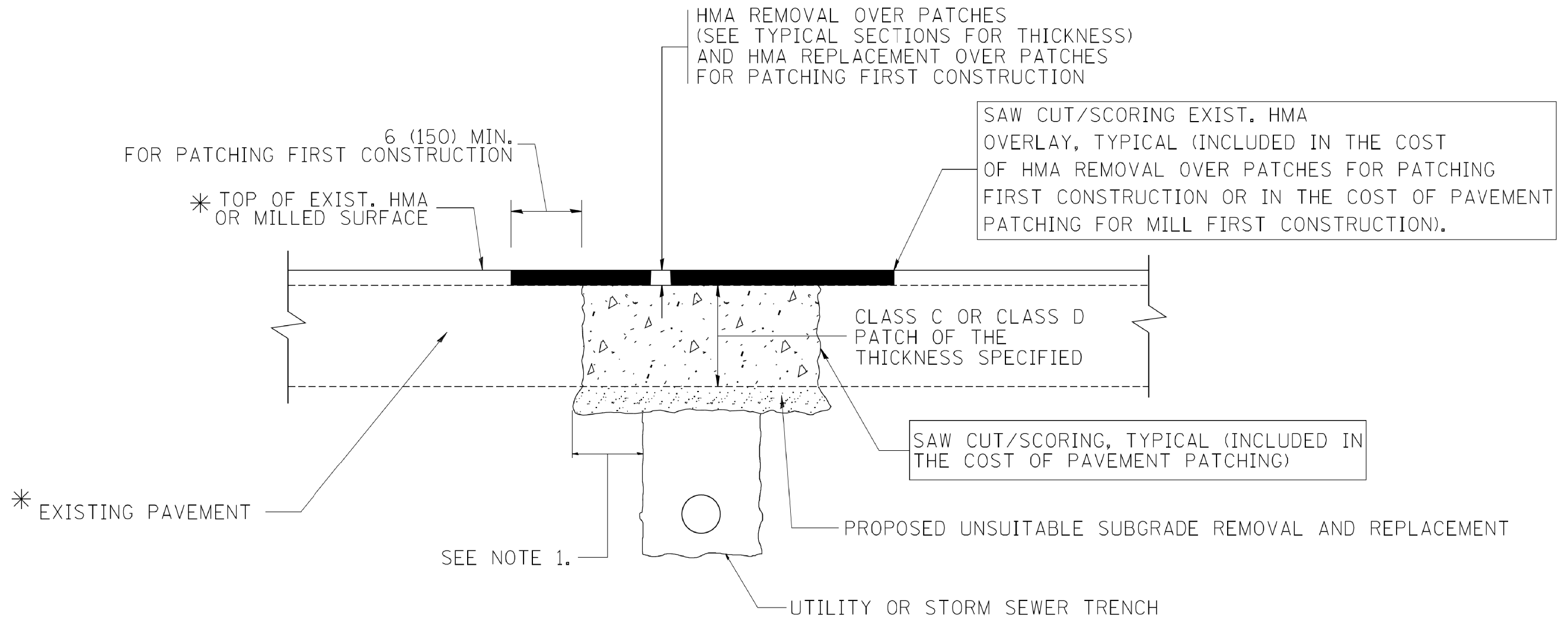
VALUES OF "C" FOR CIRCULAR AND SQUARE ORIFICES

KNIGHT Engineers & Architects	USER NAME = gaglianobt	DESIGNED - R. SHAH	REVISED - R. SHAH 10-25-94
	PLOT SCALE = 50.000' / IN.	DRAWN -	REVISED - E. GOMEZ 08-28-00
	PLOT DATE = 1/4/2008	CHECKED -	REVISED - M. GOMEZ 01-08-01
		DATE - 09-09-94	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	MANHOLE WITH RESTRICTOR PLATE	STA. TO STA.
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	249
BD600-04 (BD-12)		CONTRACT NO.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

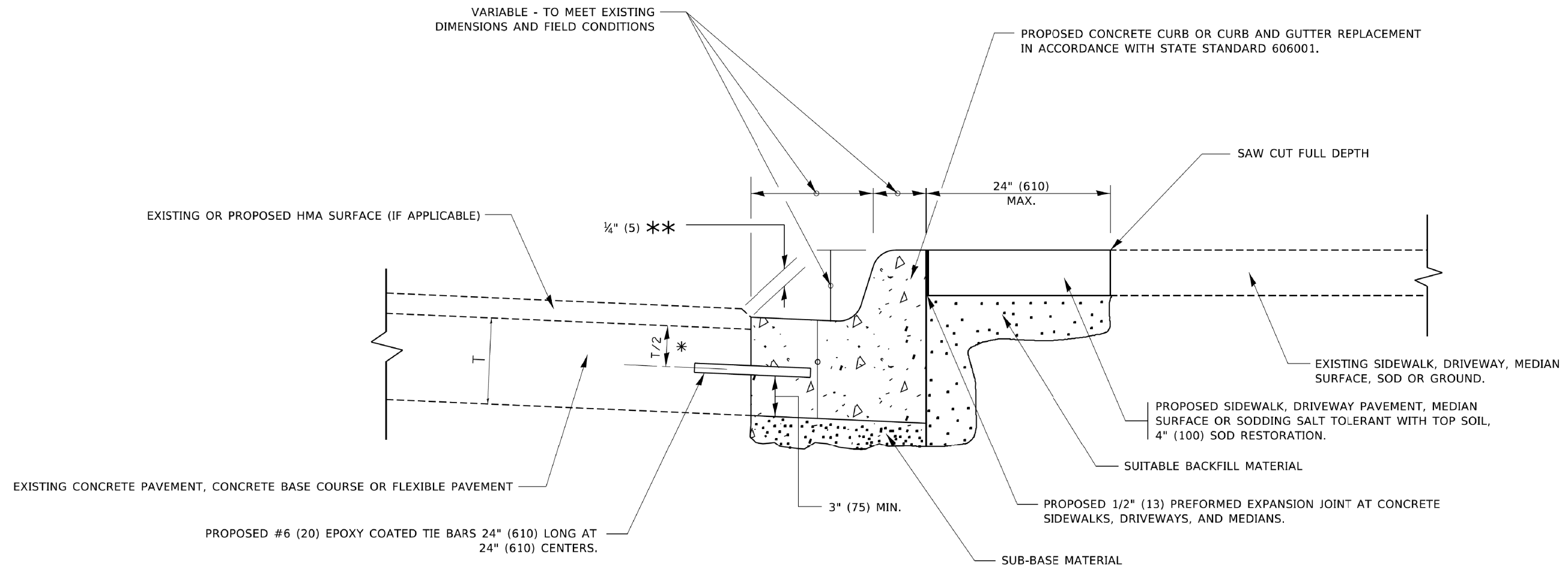
1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

	USER NAME = bauerdl	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50.000' / 1".	DRAWN -	REVISED - R. BORO 01-01-07		1467	14-00259-05-CH	DUPAGE	294	250			
	PLOT DATE = 10/27/2008	CHECKED -	REVISED - R. BORO 09-04-07		BD400-04 (BD-22)		CONTRACT NO.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			
	DATE - 10-25-94	REVISED - K. ENG 10-27-08		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.					



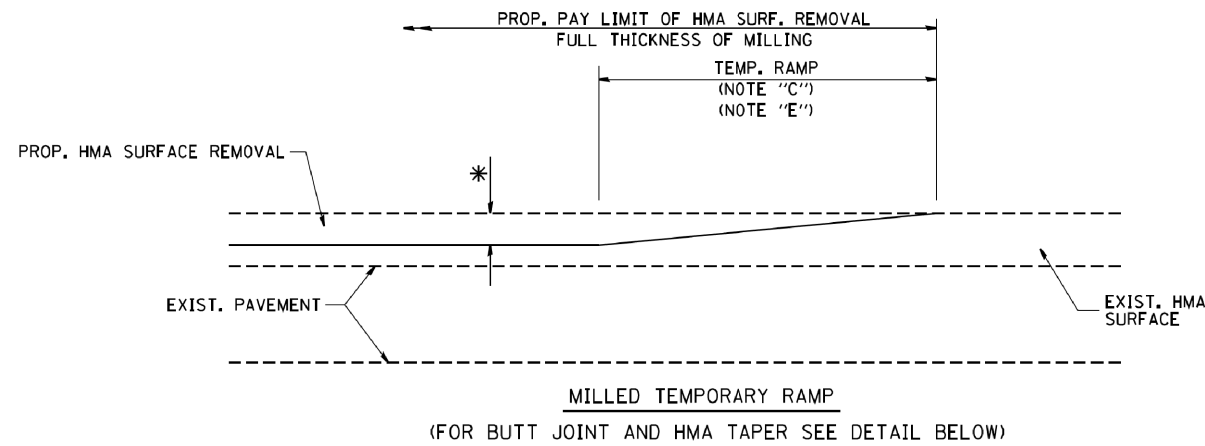
- * 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.
- ** IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

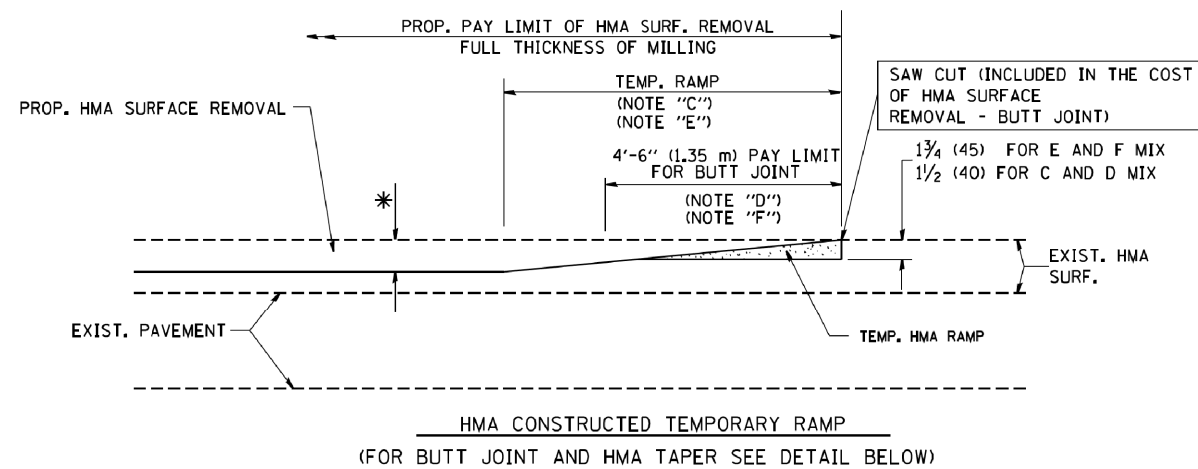
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

	USER NAME = footemj	DESIGNED - A. HOUSEH	REVISED - A. ABBAS 03-21-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED - M. GOMEZ 01-22-01			1467	14-00259-05-CH	DUPAGE	294	251
	PLOT DATE = 7/11/2019	DATE - 03-11-94	REVISED - R. BORO 12-15-09			BD600-06 (BD-24)		CONTRACT NO.		ILLINOIS FED. AID PROJECT
					SCALE: NONE	SHEET 1	OF 1	SHEETS	STA.	TO STA.

MODEL: Default
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DATE: 7/11/2019 1:51:26 PM User: footemj

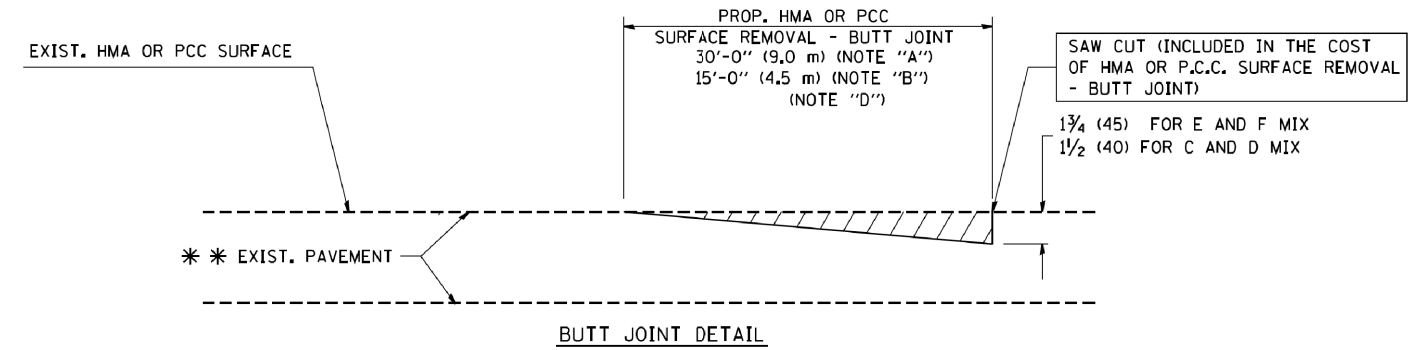


OPTION 1

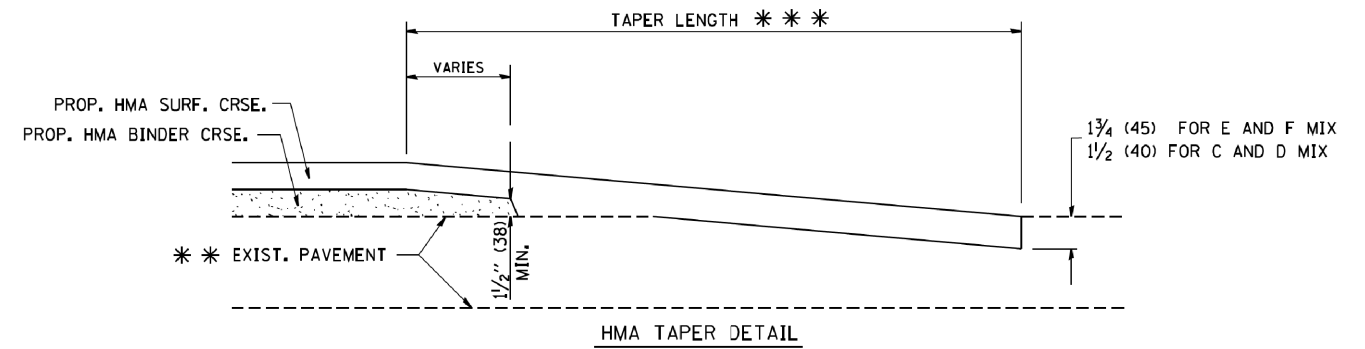


OPTION 2

TYPICAL TEMPORARY RAMP



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

* * * PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

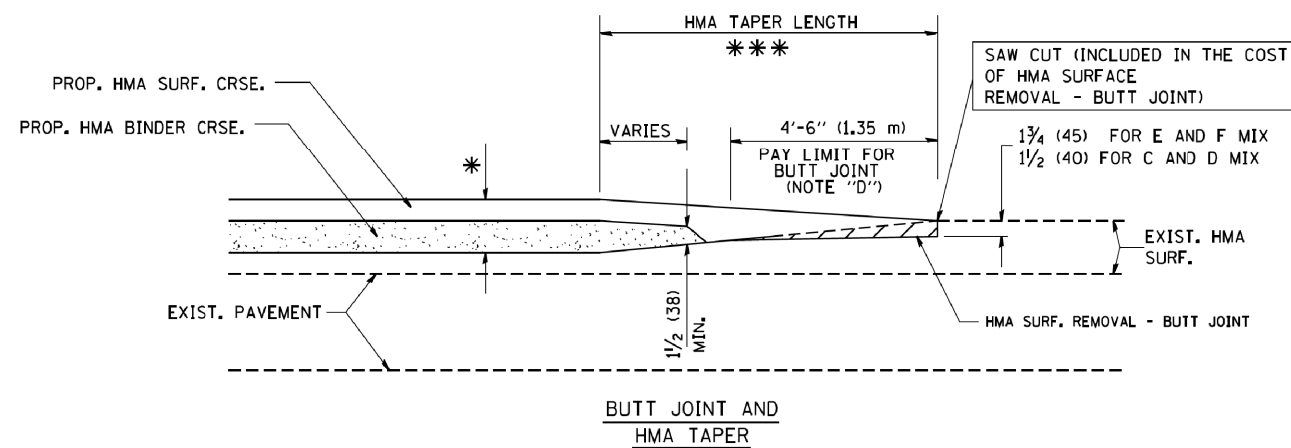
NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
 - B: MINOR SIDE ROADS.
 - C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
 - D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
 - E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
 - F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
 - G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- * * * 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

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



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

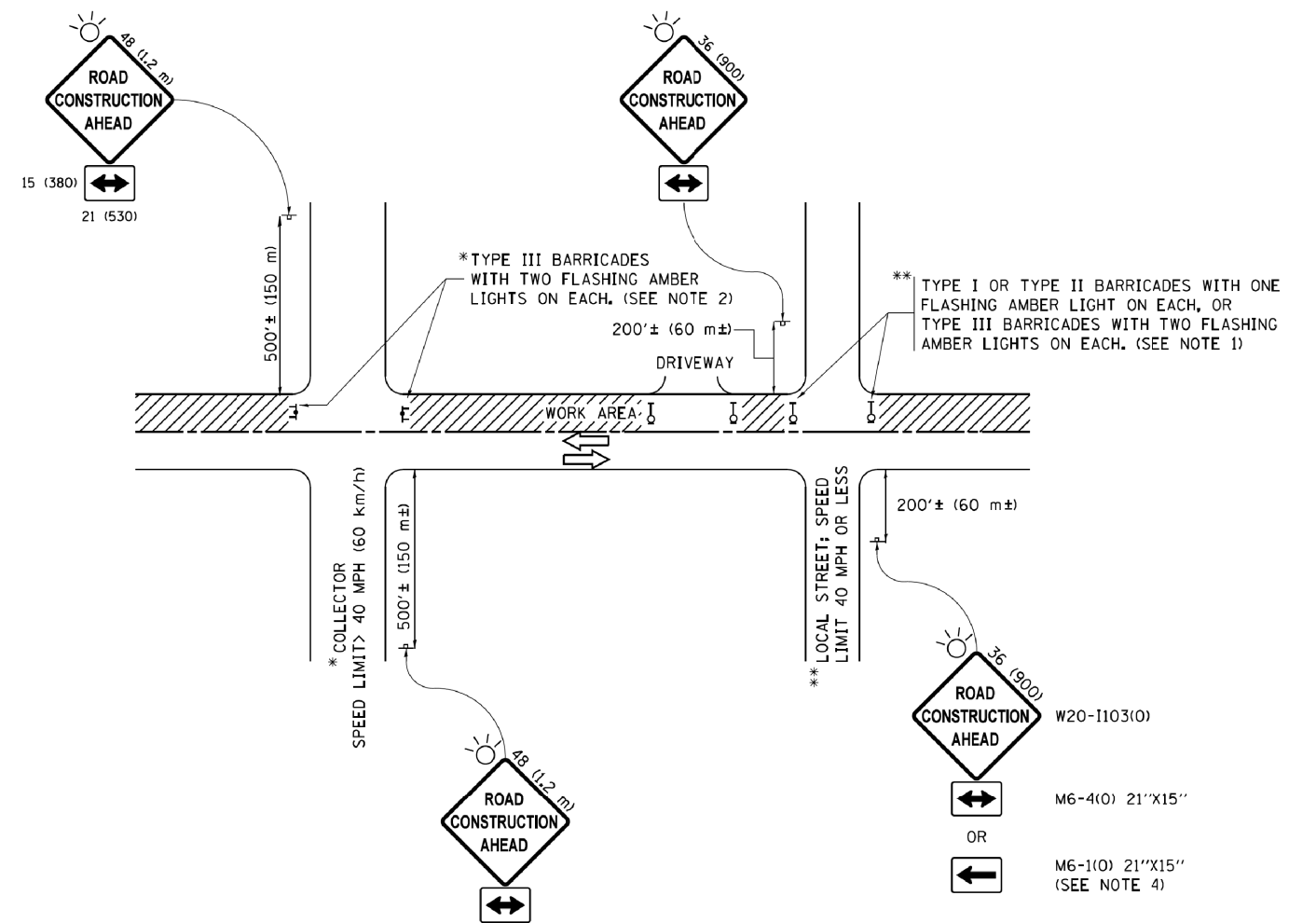


USER NAME = gaglianobt	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94
PLOT SCALE = 50.0000' / IN.	DRAWN -	REVISED - A. ABBAS 03-21-97
PLOT DATE = 1/4/2008	CHECKED -	REVISED - M. GOMEZ 04-06-01
	DATE - 06-13-90	REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BUTT JOINT AND HMA TAPER DETAILS	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	252
BD400-05 BD32		CONTRACT NO.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

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

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

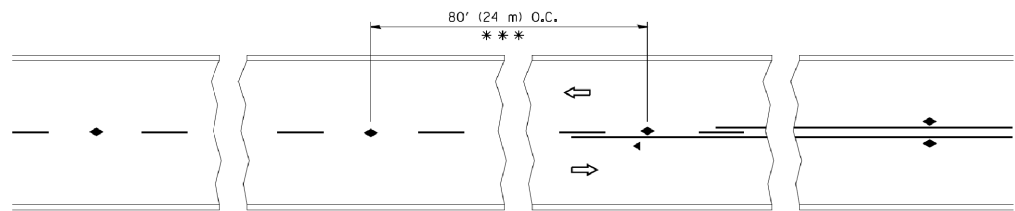
KNIGHT Engineers & Architects	USER NAME = footemj	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
			REVISED - T. RAMMACHER 01-06-00
	PLOT SCALE = 50,000' / in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13
	PLOT DATE = 9/15/2016	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

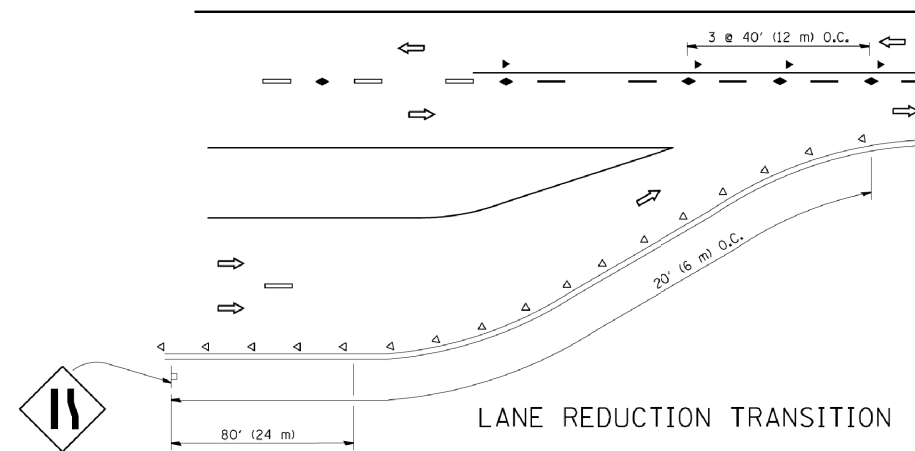
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-10			CONTRACT NO.	
ILLINOIS FED. AID PROJECT				

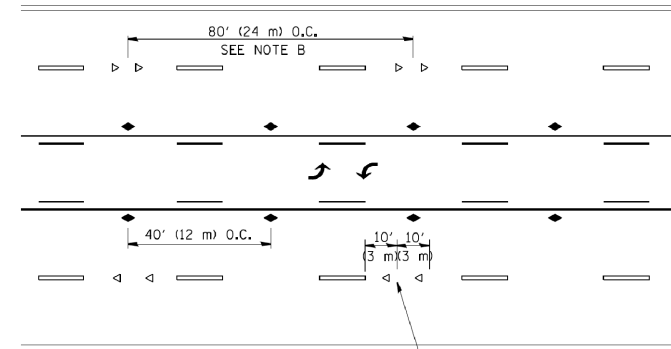


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

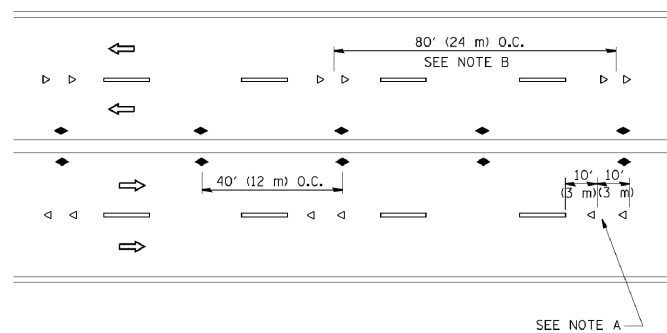
TWO-LANE/TWO-WAY



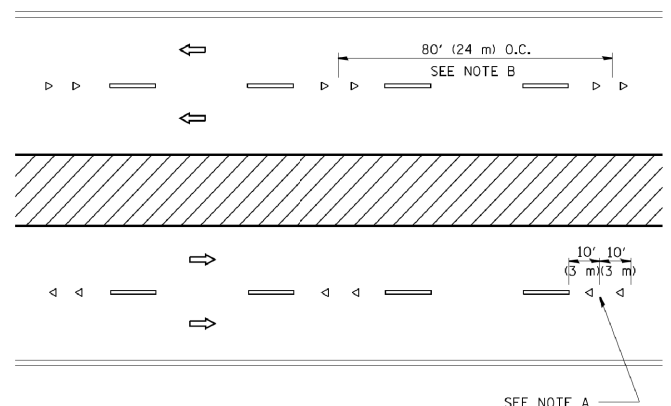
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

SYMBOLS

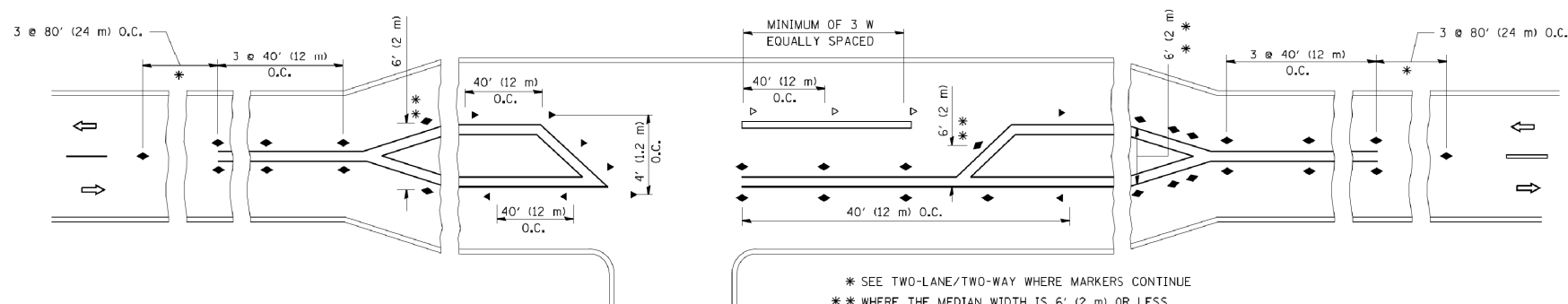
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

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

DESIGN NOTES

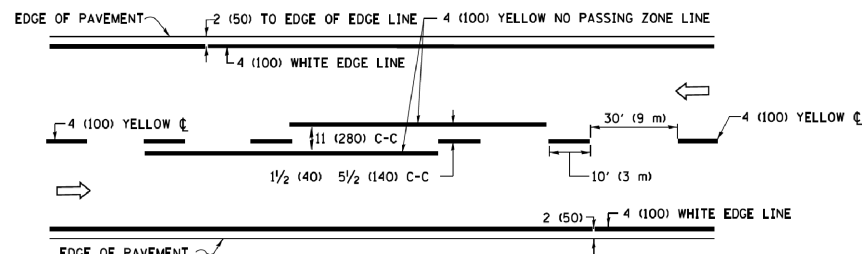
1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS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



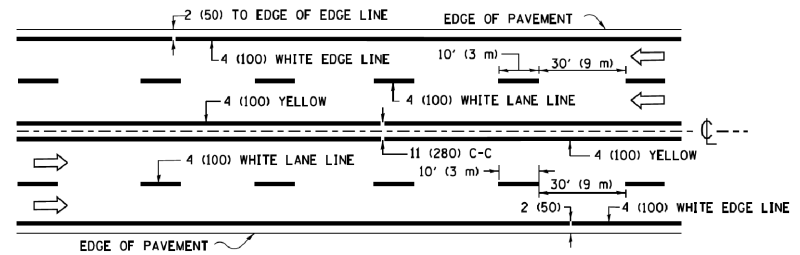
LEFT TURN

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

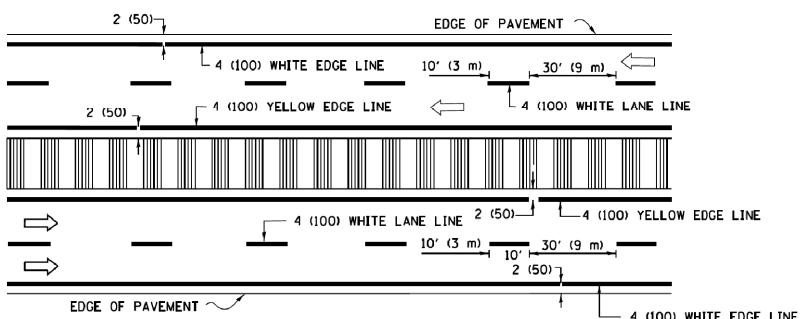
All dimensions are in inches (millimeters) unless otherwise shown.



2-LANE ROADWAY

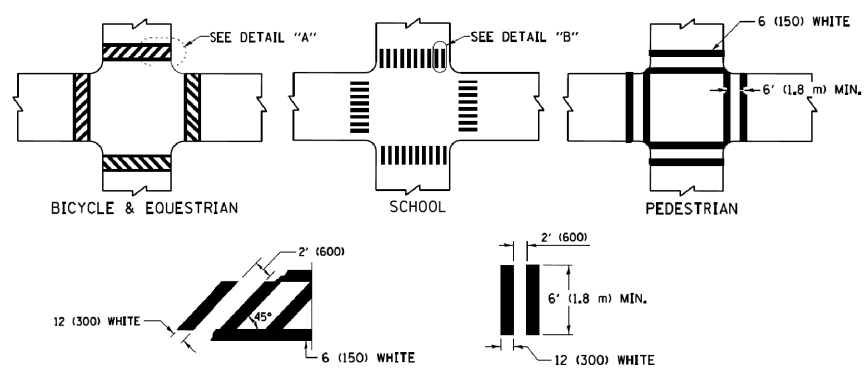


MULTI-LANE UNDIVIDED



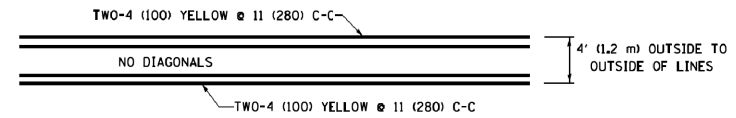
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

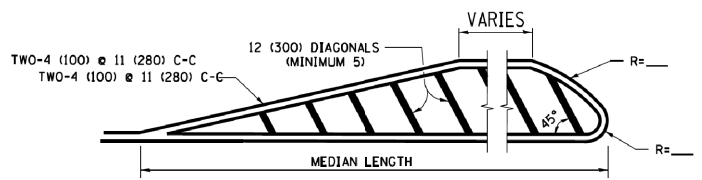


TYPICAL CROSSWALK MARKING

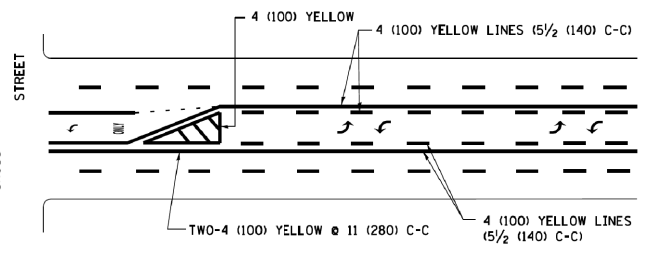
* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



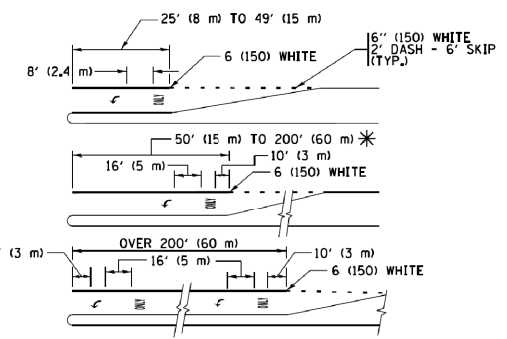
4' (1.2 m) WIDE MEDIANS ONLY



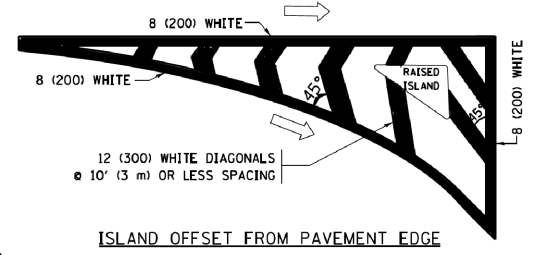
MEDIANS OVER 4' (1.2 m) WIDE



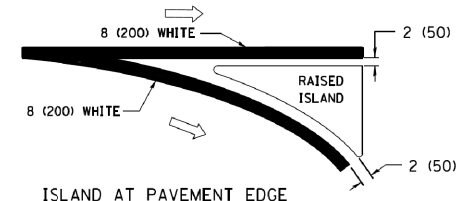
MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING



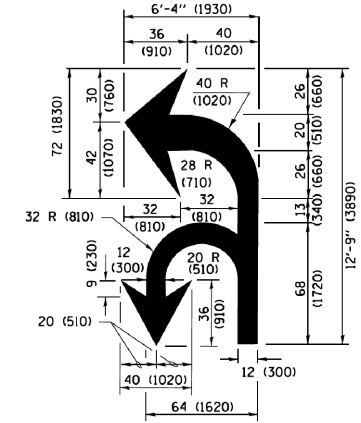
TYPICAL LEFT (OR RIGHT) TURN LANE TYPICAL TURN LANE MARKING



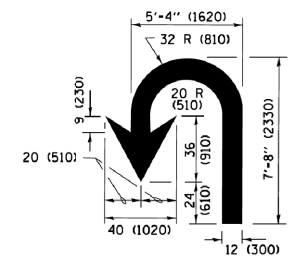
ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION

* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

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

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINES FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW TWO WAY TRAFFIC WHITE ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES "RR" IS 6' (1.8 m) LETTERS: 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "RR"=3.6 SQ. FT. (0.33 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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

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

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

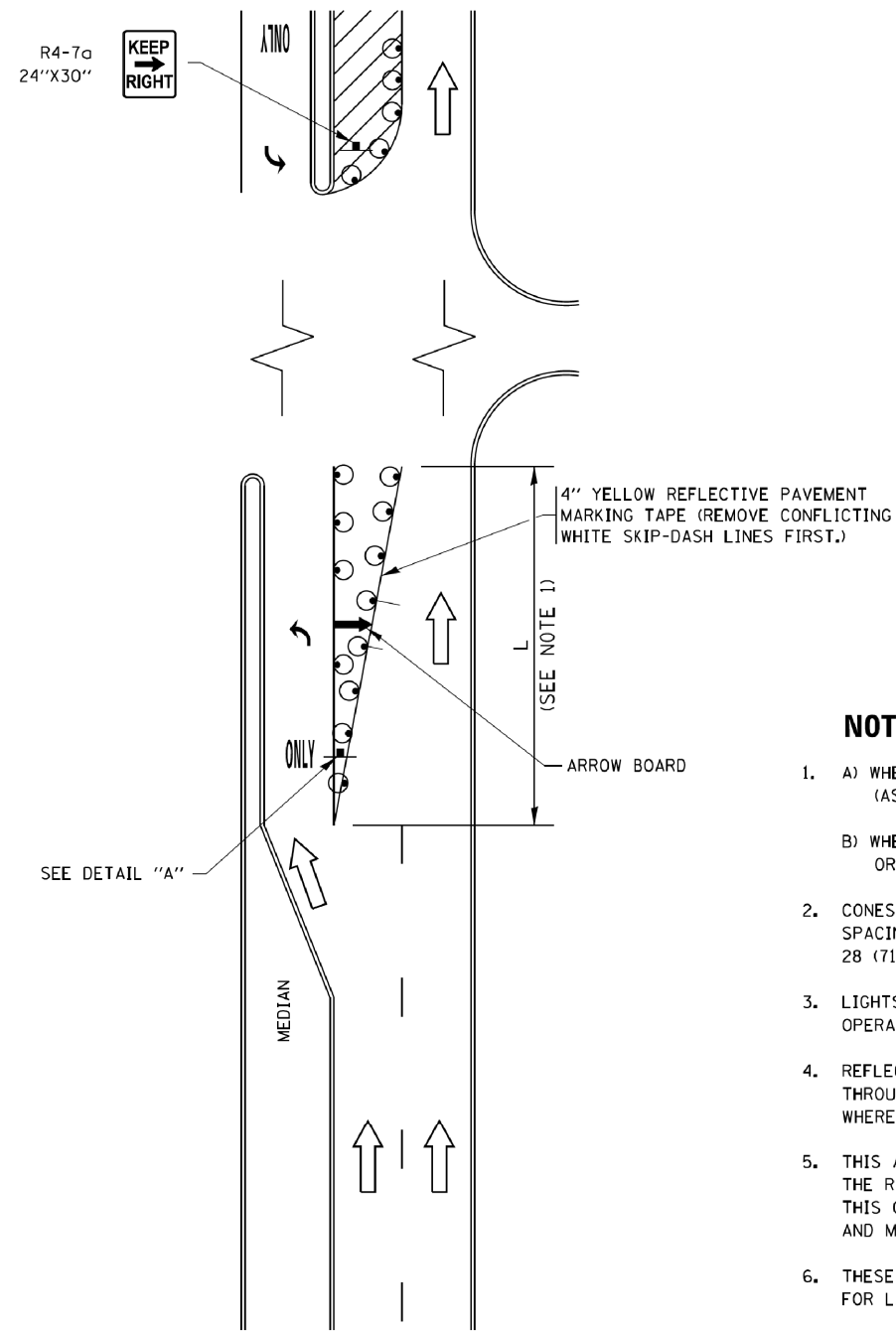


FIGURE 1

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

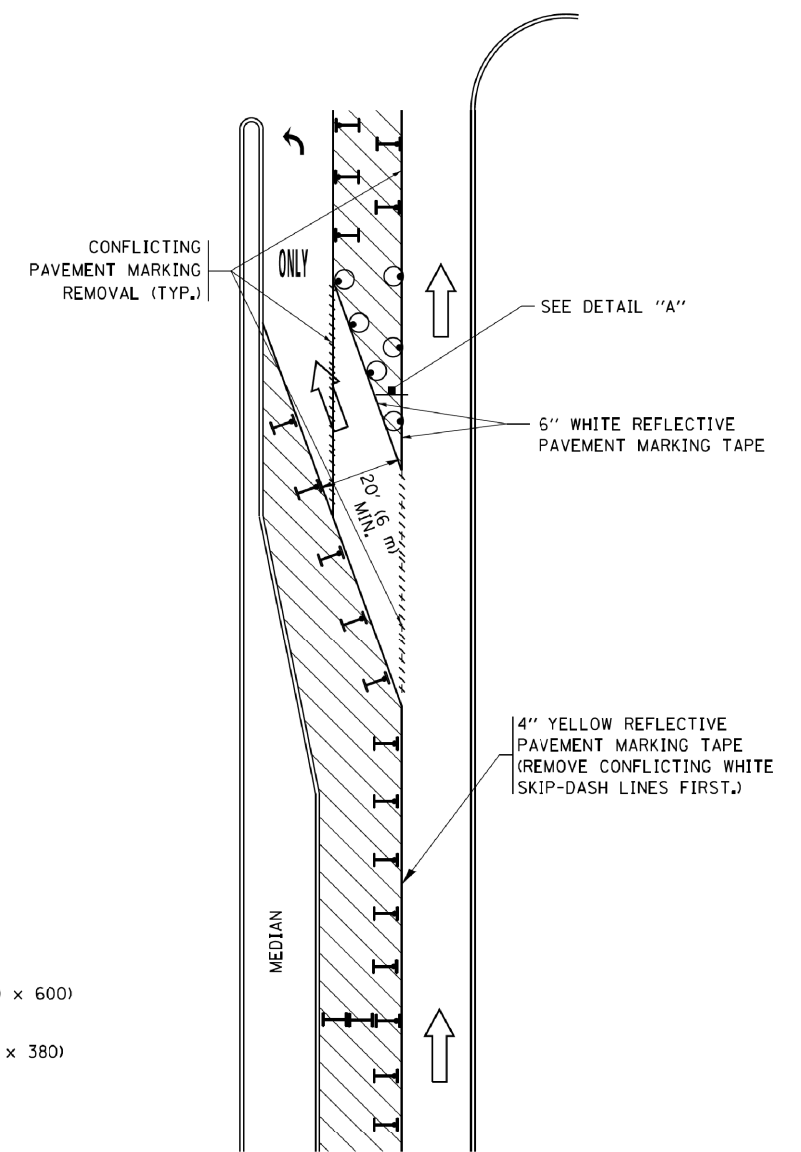


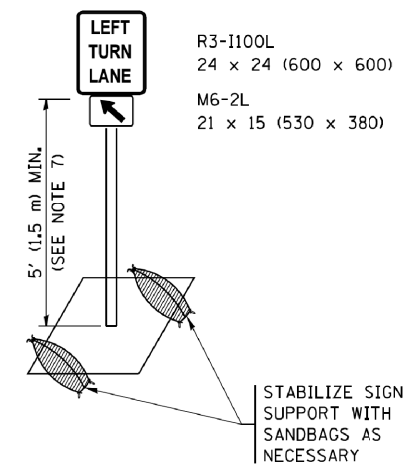
FIGURE 2

LEGEND

- WORK AREA
- LANE OPEN TO TRAFFIC
- ARROW BOARD
- TYPE I OR II BARRICADE OR DRUM WITH STEADY BURN LIGHT
- DRUM WITH STEADY BURN LIGHT
- SIGN ASSEMBLY
- TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

NOTES:

1. A) WHEN "L" IS \leq THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
B) WHEN "L" IS $>$ THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-1100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH PRE-REQUIREMENTS.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

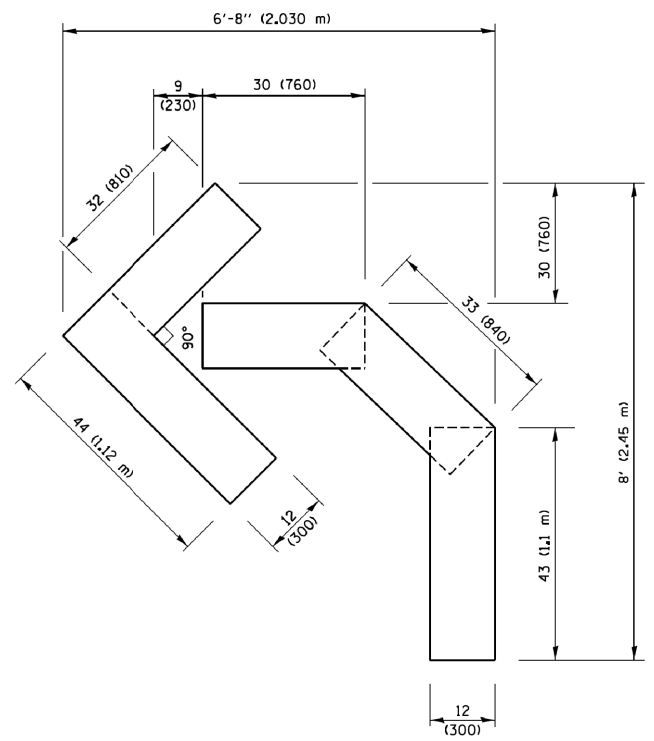


DETAIL A

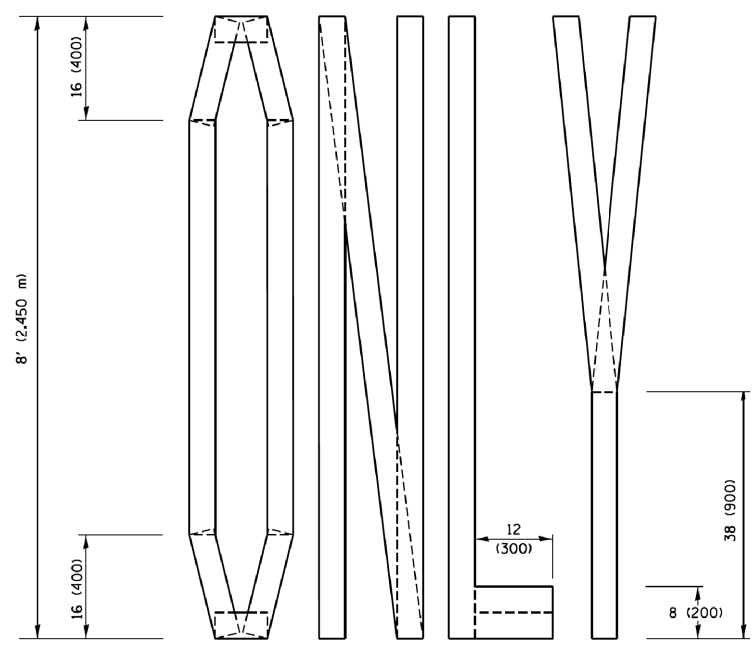
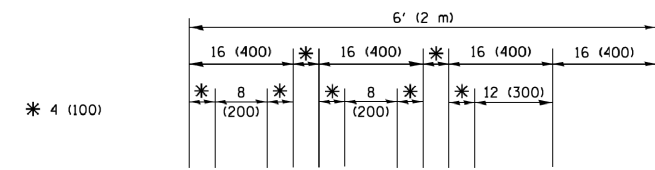
All dimensions are in inches (millimeters) unless otherwise shown.

KNIGHT Engineers & Architects	USER NAME = footemj	REVISED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50,000 / in.	REVISED - A. HOUSEH 11-07-95	REVISED - A. SCHUETZE 07-01-13		1467	14-00259-05-CH	DUPAGE	294	257				
	PLOT DATE = 9/15/2016	REVISED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16		TC-14		CONTRACT NO.		ILLINOIS FED. AID PROJECT				

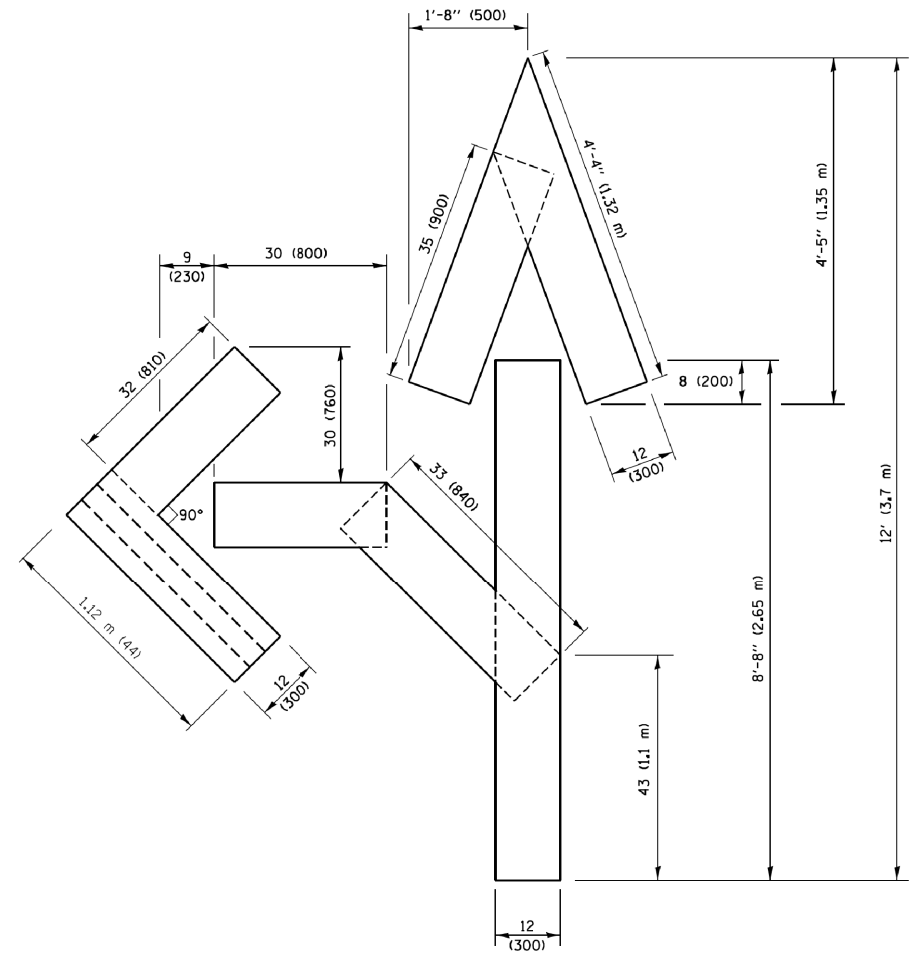
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.



QUANTITY
 4 (100) LINE = 45.5 ft. (13.9 m)
 15.2 sq. ft. (1.41 sq. m)

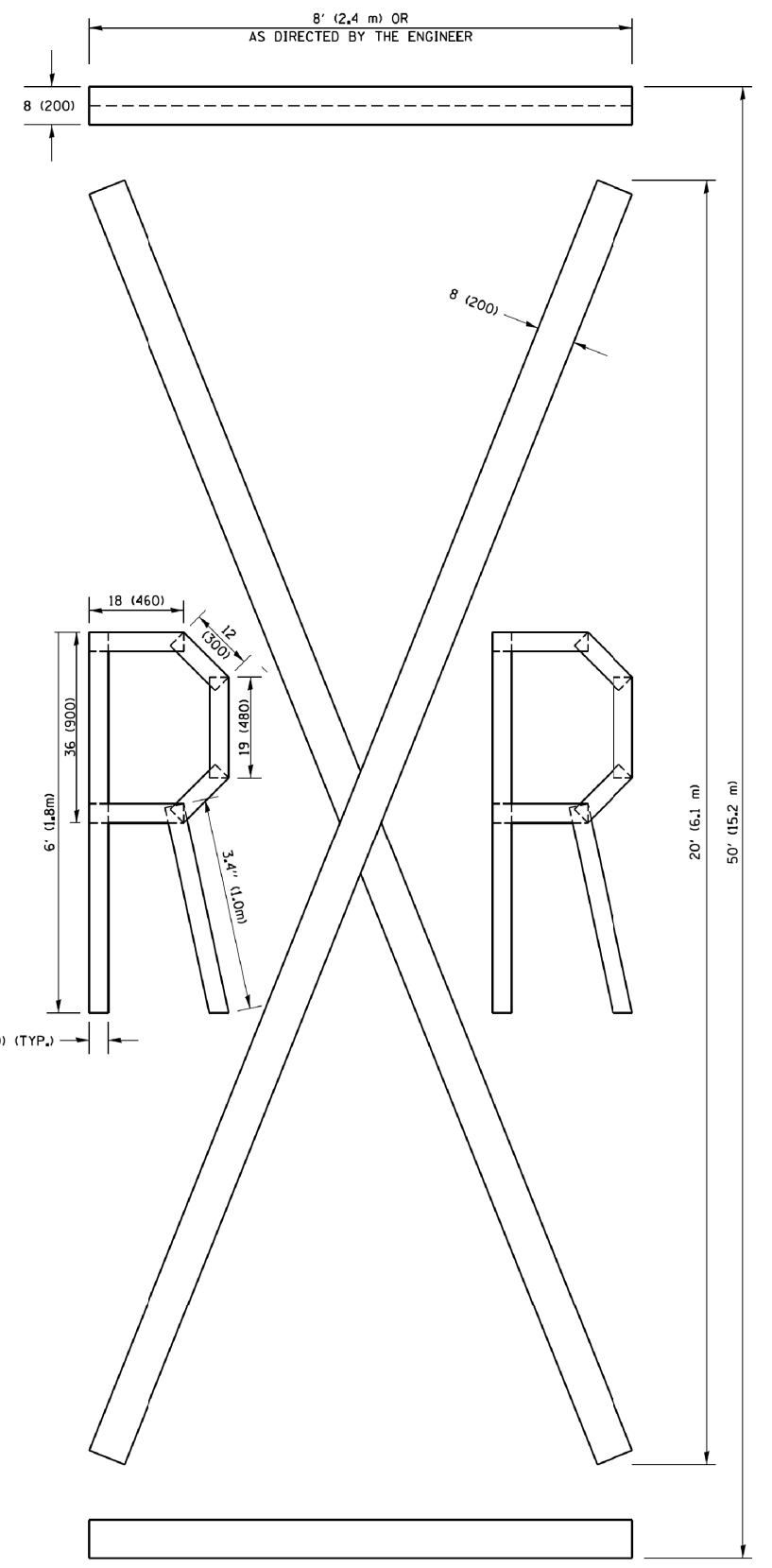


QUANTITY
 4 (100) LINE = 64.1 ft. (19.5 m)
 21.4 sq. ft. (1.99 sq. m)



QUANTITY
 4 (100) LINE = 82.5 ft. (25.1 m)
 27.5 sq. ft. (2.53 sq. m)

NOTE:
 ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



QUANTITY
 4 (100) LINE = 225.9 ft. (68.9 m)
 75.3 sq. ft. (6.99 sq. m)

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



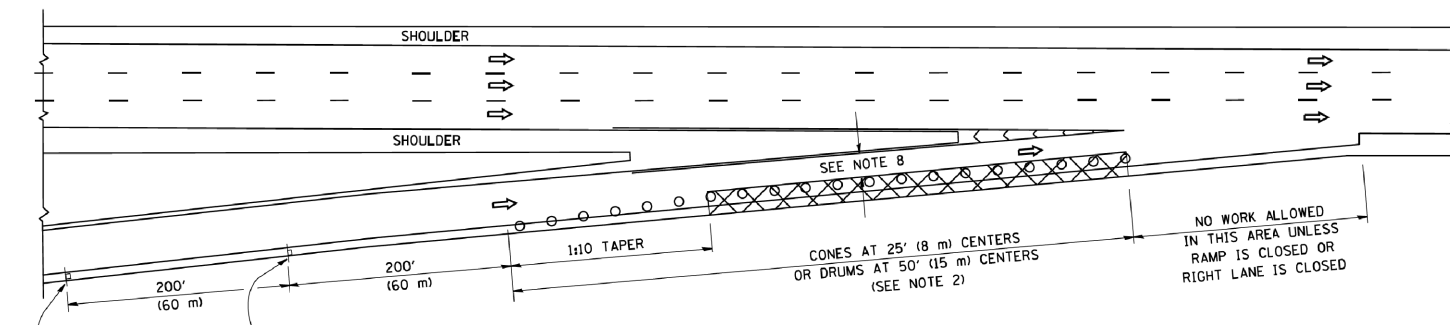
USER NAME = footemj	DESIGNED -	REVISED -T. RAMMACHER 03-02-98
		REVISED -E. GOMEZ 08-28-00
PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED -E. GOMEZ 08-28-00
PLOT DATE = 9/15/2016	DATE - 09-18-94	REVISED -A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

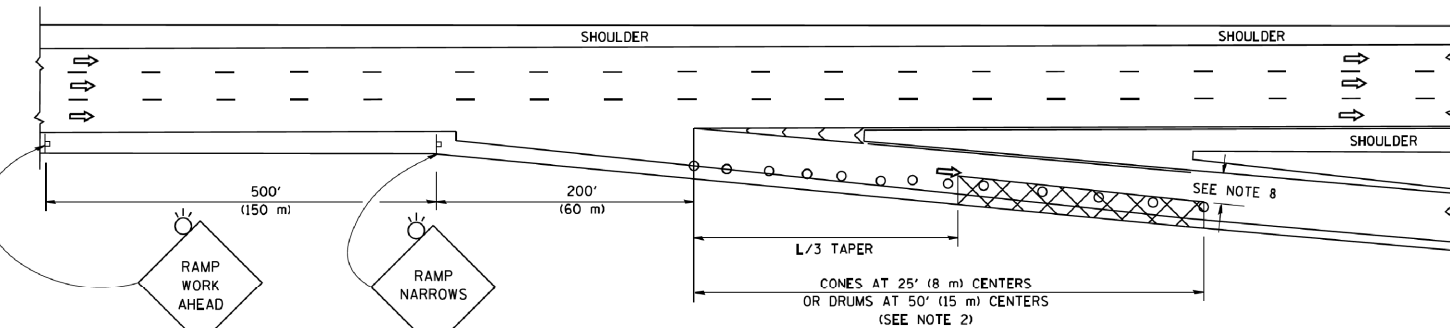
SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-16		CONTRACT NO.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

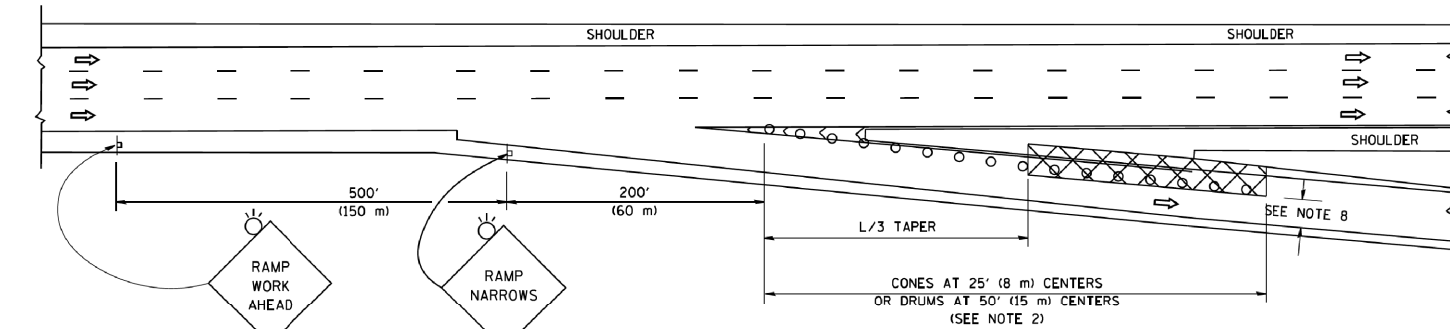
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

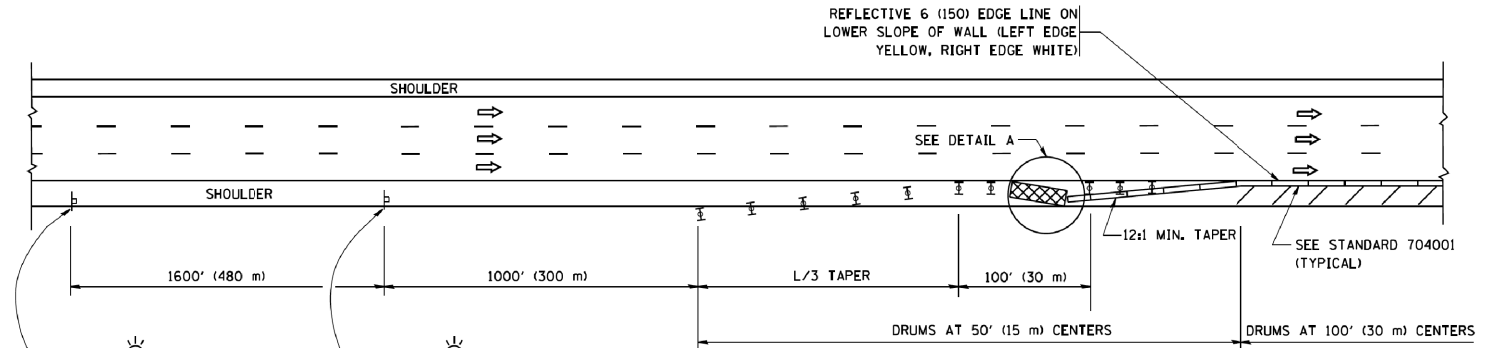
GENERAL NOTES

1. THE "L" DISTANCE EQUALS:

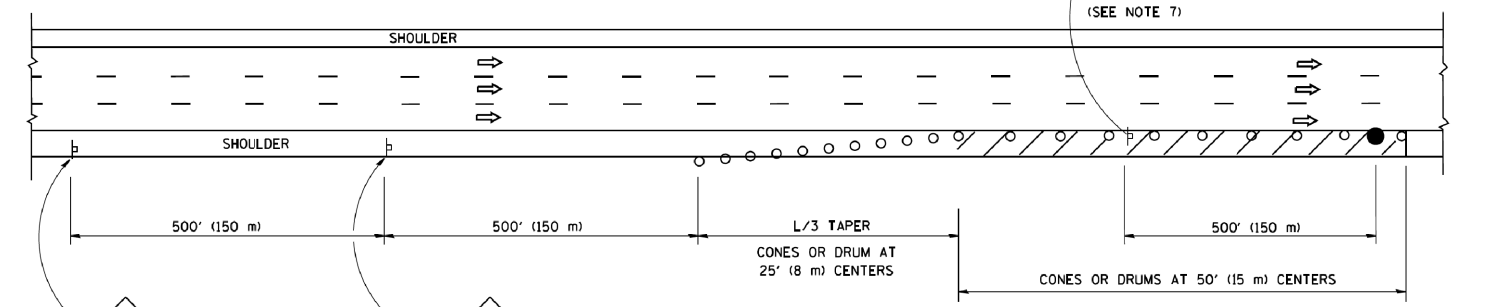
SPEED LIMIT	FORMULAS
45 mph (80 km/h) OR GREATER:	METRIC ENGLISH
	$L=0.65(W)(S)$ $L=(W)(S)$

W = WIDTH OF OFFSET IN FEET (METERS)
S = NORMAL POSTED SPEED MPH (KM/H)
2. TYPE II BARRICADES OR DRUMS ARE REQUIRED FOR ALL NIGHTIME CLOSURES. TYPE II BARRICADES OR DRUMS WITH MONODIRECTIONAL STEADY BURN LIGHTS ARE REQUIRED FOR DELINEATING OBSTICLES, EXCAVATIONS, OR HAZARDS EXCEEDING 100 FT (30m) IN LENGTH AT NIGHT.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.
5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
 - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
 - b. THE WORK AVTIVITY REQUIRES FREQUENT ENCROACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
8. 12' MIN. WIDTH TANGENT SECTION
16' MIN. WIDTH CURVE SECTION.

SHOULDER CLOSURE DETAILS

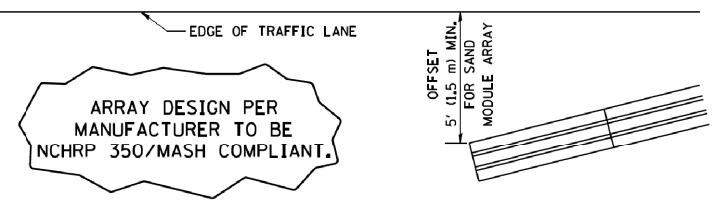


PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

THIS DETAIL IS USED WHERE:
1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH IN AN AREA CLOSER THAN 15' (4.5 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.



DETAIL "A"
IMPACT ATTENUATOR, TEMPORARY
(SEE NOTE 5)

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



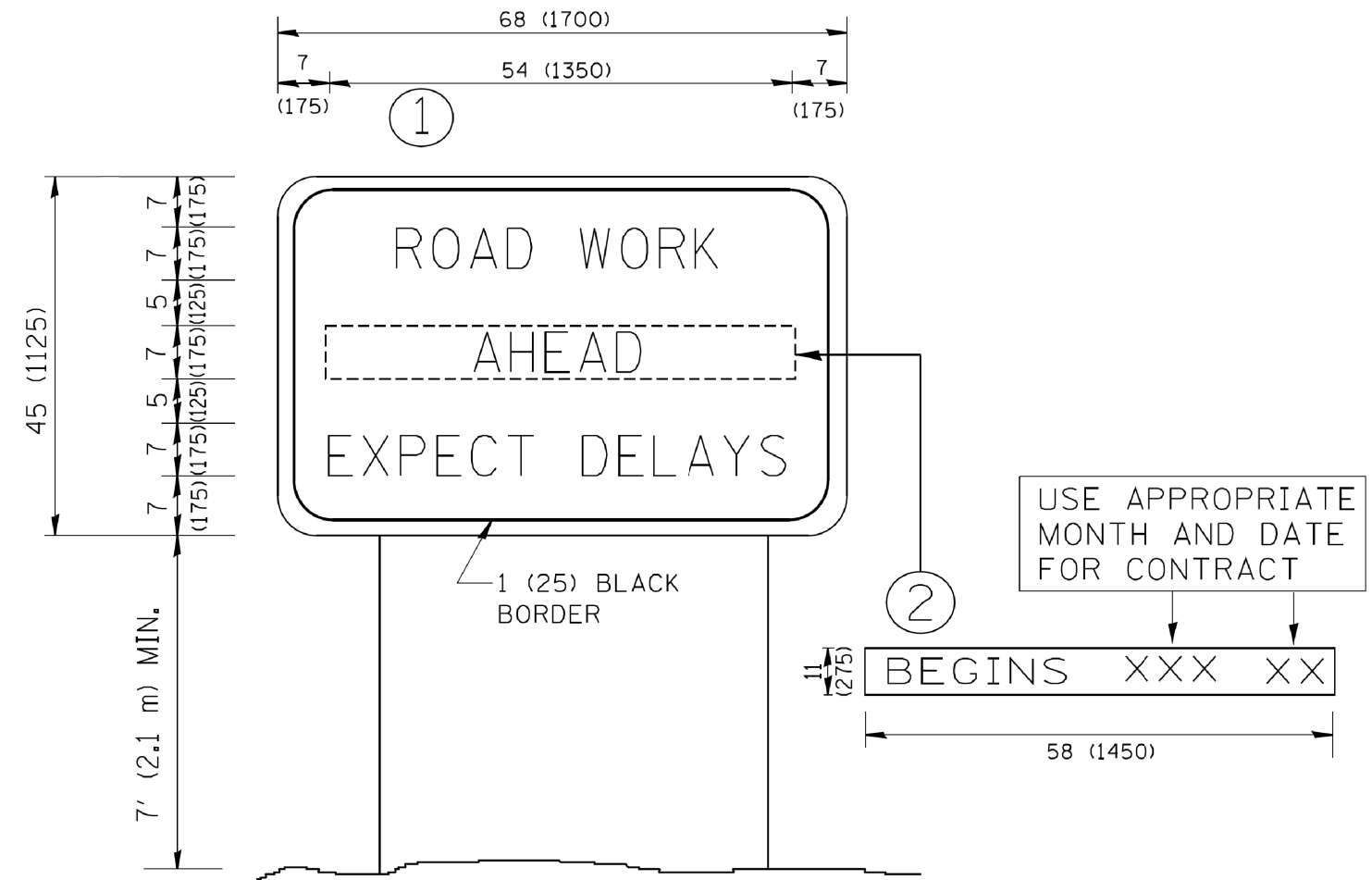
USER NAME = footemj	DESIGNED -	REVISED - S.P.B. 01-07
PLOT SCALE = 50,0000' / 1"	DRAWN - D.W.S.	REVISED - S.P.B. 12-09
PLOT DATE = 11/27/2017	CHECKED -	REVISED - M.D. 06-13
	DATE - 11-96	REVISED - M.D. 01-18

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR FREEWAY
SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	259
TC-17		CONTRACT NO.		
ILLINOIS FED. AID PROJECT				



NOTES:

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

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

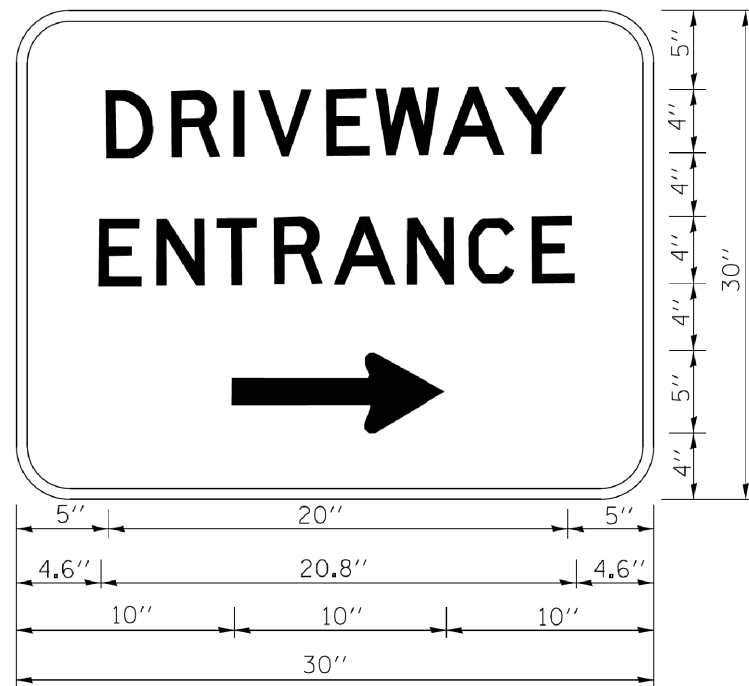
KNIGHT Engineers & Architects	USER NAME = gaglianobt	DESIGNED -	REVISED - R. MIRS 09-15-97
		DRAWN -	REVISED - R. MIRS 12-11-97
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	260
TC-22			CONTRACT NO.	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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

NOTES:

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

	USER NAME = gaglianobt	DESIGNED -	REVISED - C. JUCIUS 02-15-07
		DRAWN -	REVISED -
	PLOT SCALE = 50,000' / 1in.	CHECKED -	REVISED -
	PLOT DATE = 12/13/2012	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

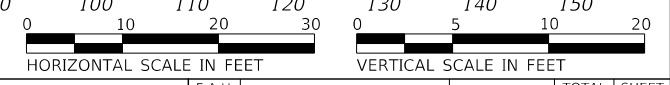
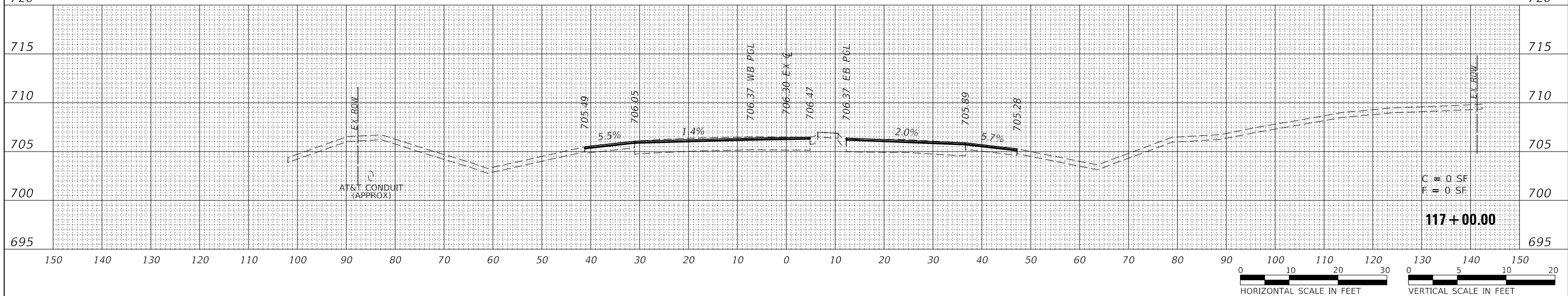
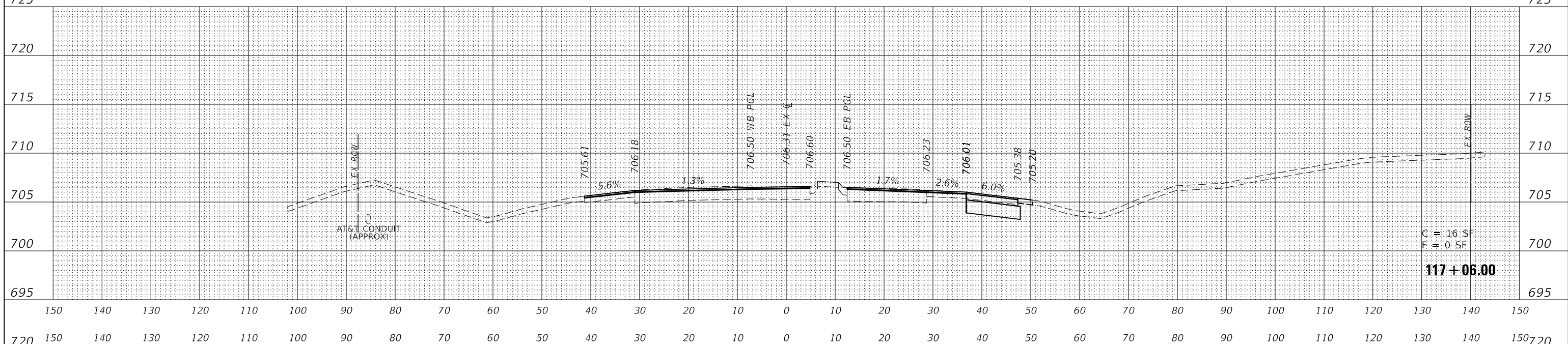
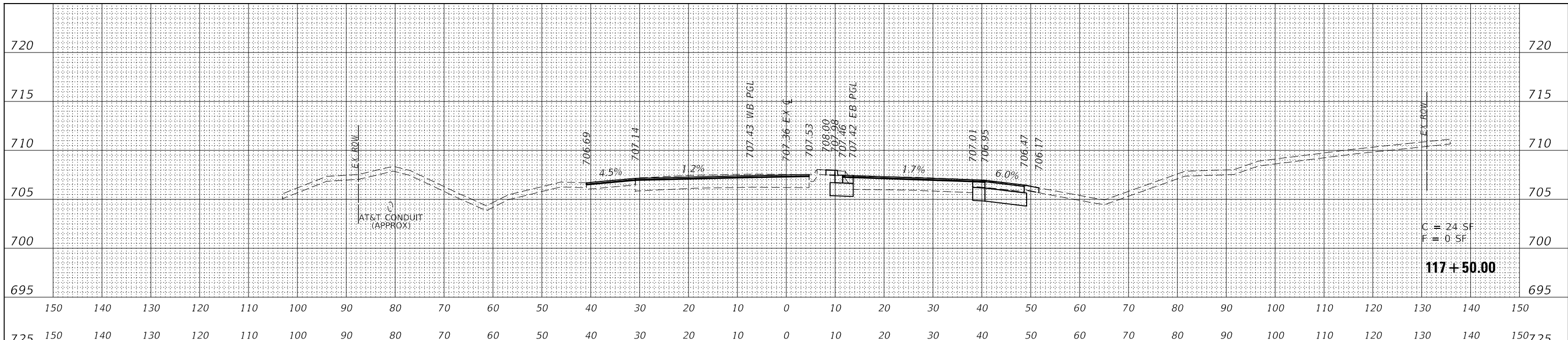
DRIVEWAY ENTRANCE SIGNING

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	261
TC-26			CONTRACT NO.	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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

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



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DESIGNED -	D.M.S.	REVISED -	
DRAWN -	D.M.S.	REVISED -	
CHECKED -	D.J.C.	REVISED -	
DATE -	09-01-2020	REVISED -	

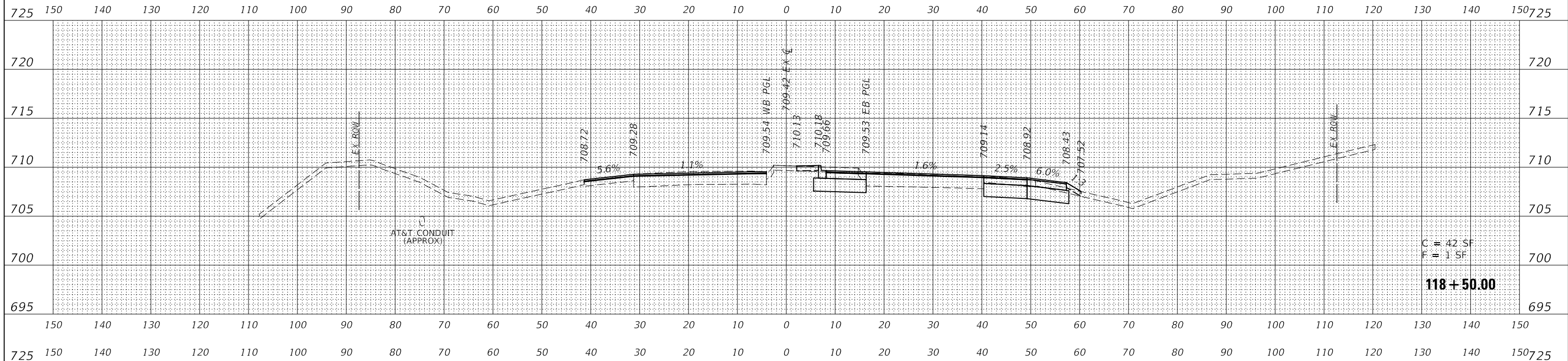
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS-SECTIONS
31ST STREET

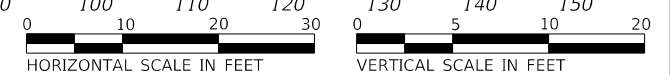
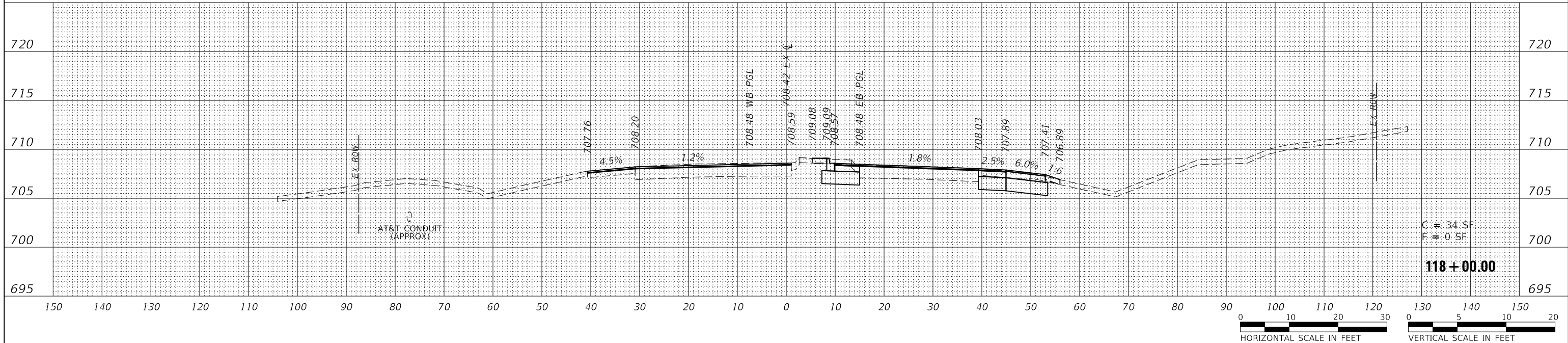
SCALE: SHEET 1 OF 27 SHEETS STA. 117+00.00 TO STA. 117+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	262
CONTRACT NO. 61G12				
ILLINOIS FED. AID PROJECT				

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



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



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DESIGNED -	D.M.S.	REVISED -	
DRAWN -	D.M.S.	REVISED -	
CHECKED -	D.J.C.	REVISED -	
DATE -	09-01-2020	REVISED -	

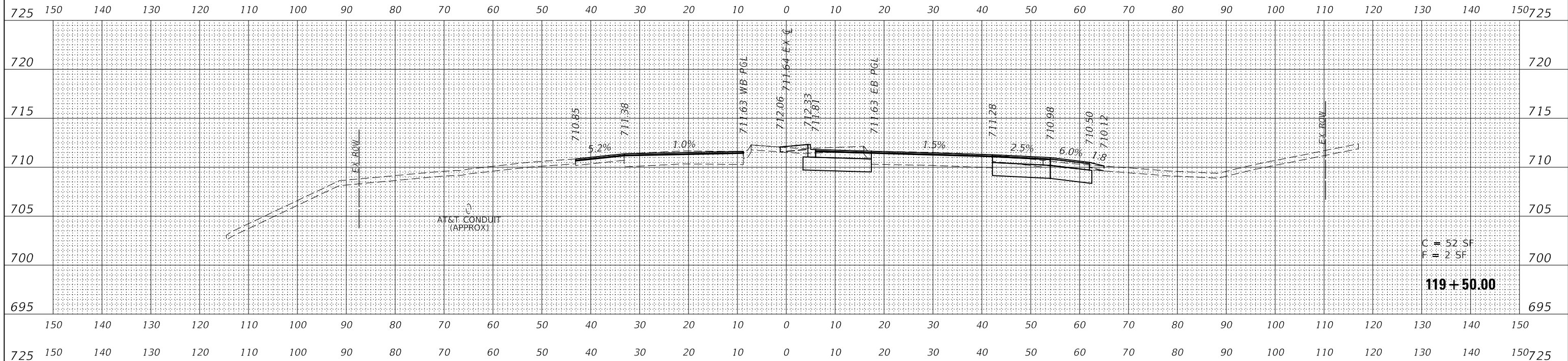
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS-SECTIONS
31ST STREET

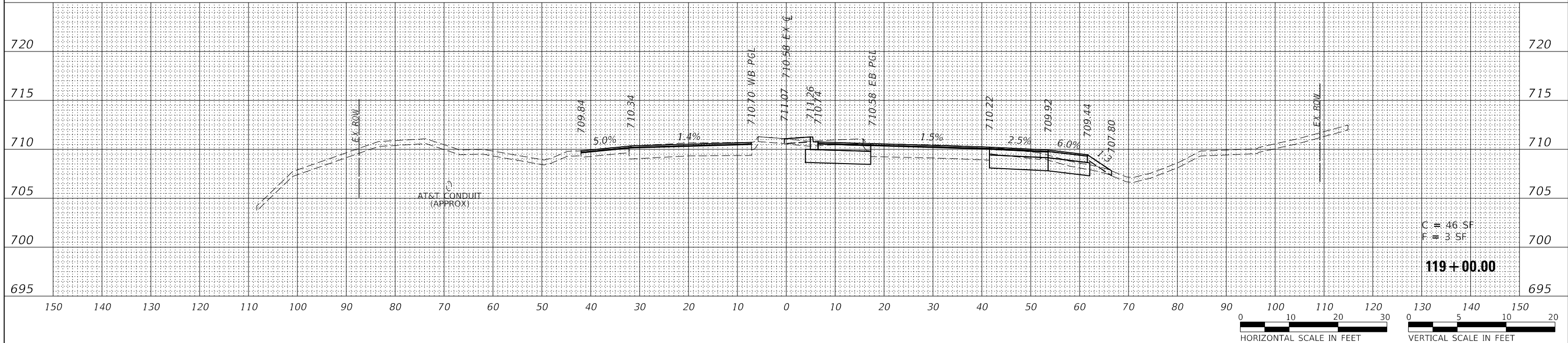
SCALE: SHEET 2 OF 27 SHEETS STA. 118+00.00 TO STA. 118+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH		294	263
CONTRACT NO. 61G12				
ILLINOIS FED. AID PROJECT				

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



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



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DESIGNED -	D.M.S.	REVISED -	
DRAWN -	D.M.S.	REVISED -	
CHECKED -	D.J.C.	REVISED -	
DATE -	09-01-2020	REVISED -	

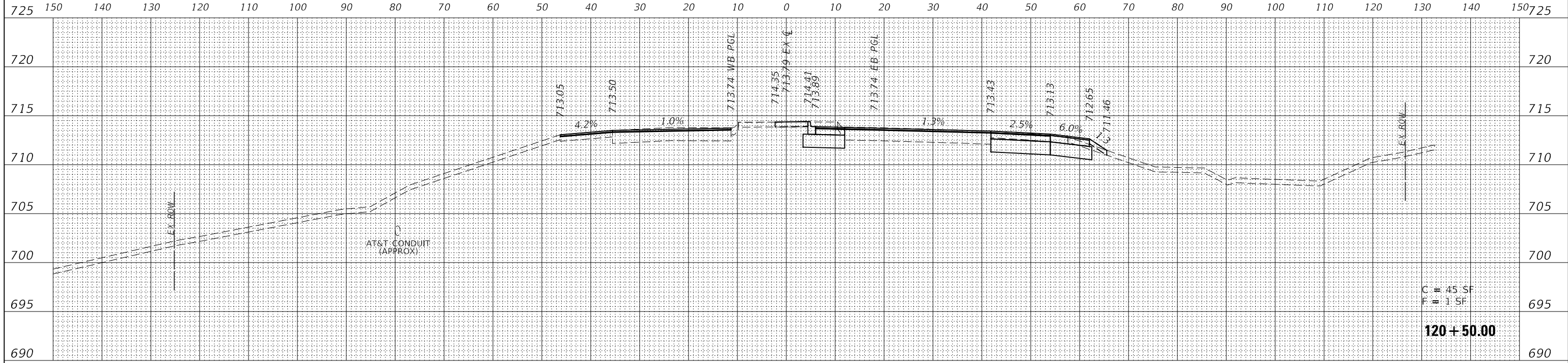
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS-SECTIONS
31ST STREET**

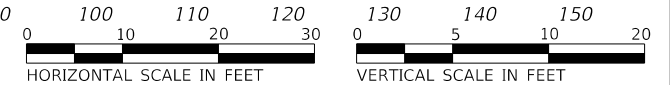
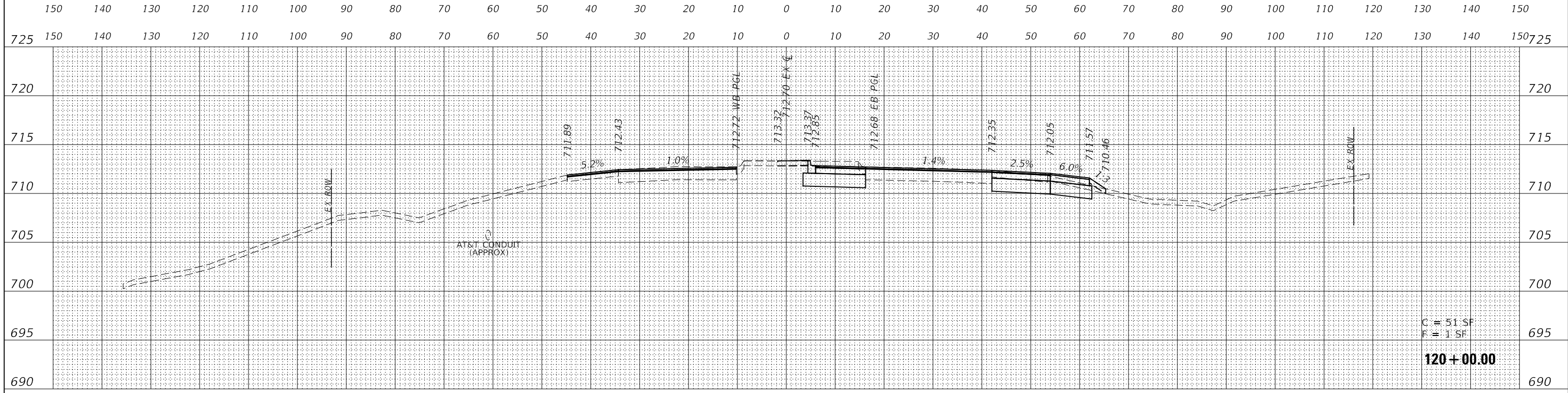
SCALE: SHEET 3 OF 27 SHEETS STA. 119+00.00 TO STA. 119+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	264
CONTRACT NO. 61G12				
ILLINOIS FED. AID PROJECT				

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



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



DESIGNED -	D.M.S.	REVISED -	
DRAWN -	D.M.S.	REVISED -	
CHECKED -	D.J.C.	REVISED -	
DATE -	09-01-2020	REVISED -	

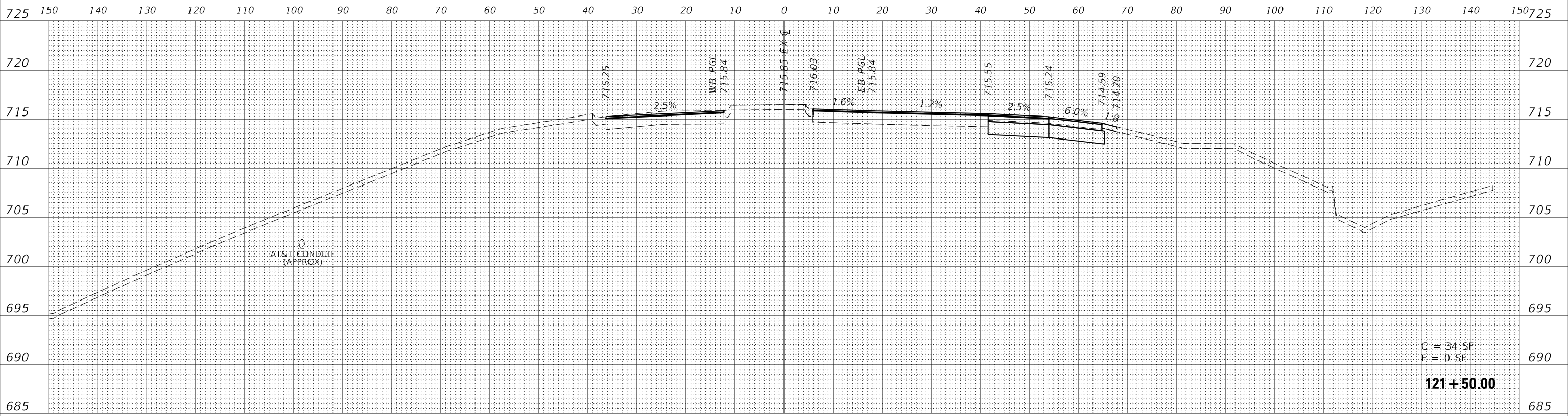
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS-SECTIONS
31ST STREET**

SCALE: SHEET 4 OF 27 SHEETS STA. 120+00.00 TO STA. 120+50.00

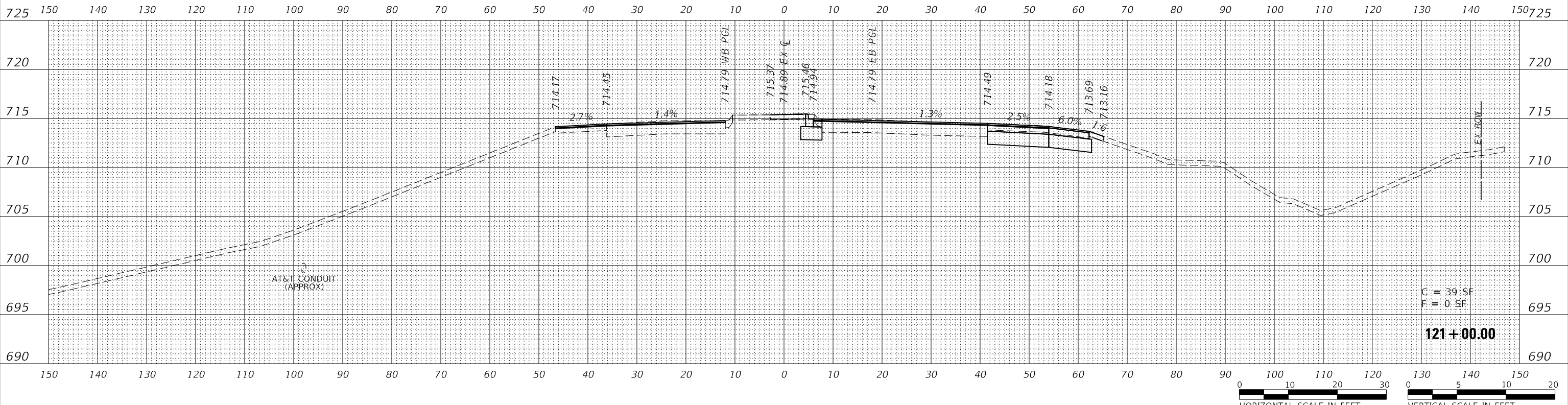
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	265
				CONTRACT NO. 61G12
ILLINOIS		FED. AID PROJECT		

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

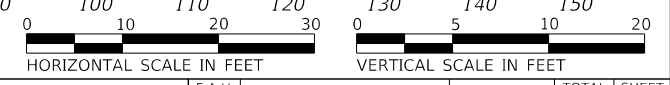


C = 34 SF
F = 0 SF
121+50.00

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



C = 39 SF
F = 0 SF
121+00.00



DESIGNED -	D.M.S.	REVISED -	
DRAWN -	D.M.S.	REVISED -	
CHECKED -	D.J.C.	REVISED -	
DATE -	09-01-2020	REVISED -	

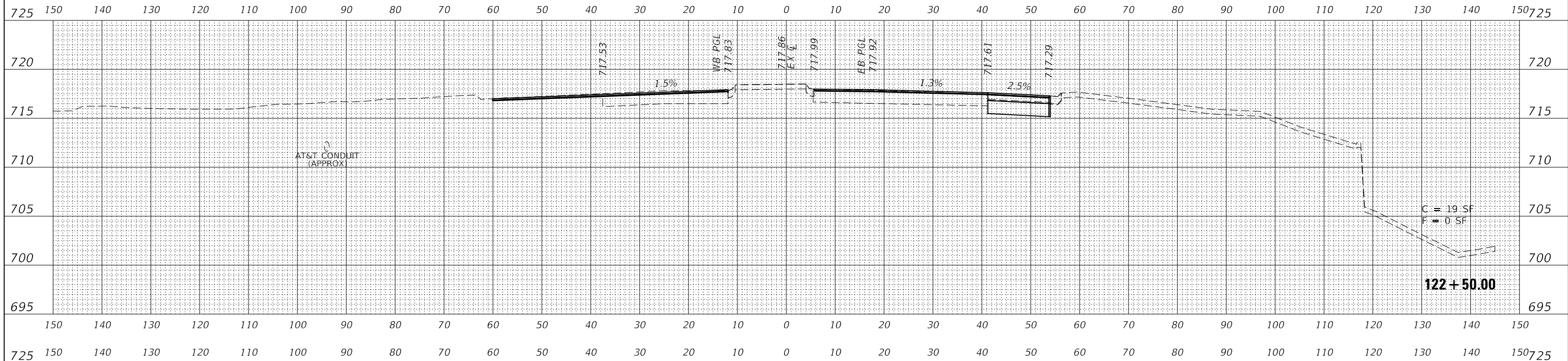
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS-SECTIONS
31ST STREET**

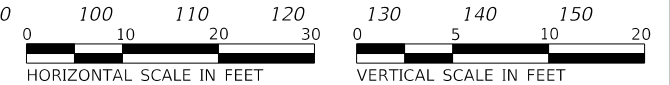
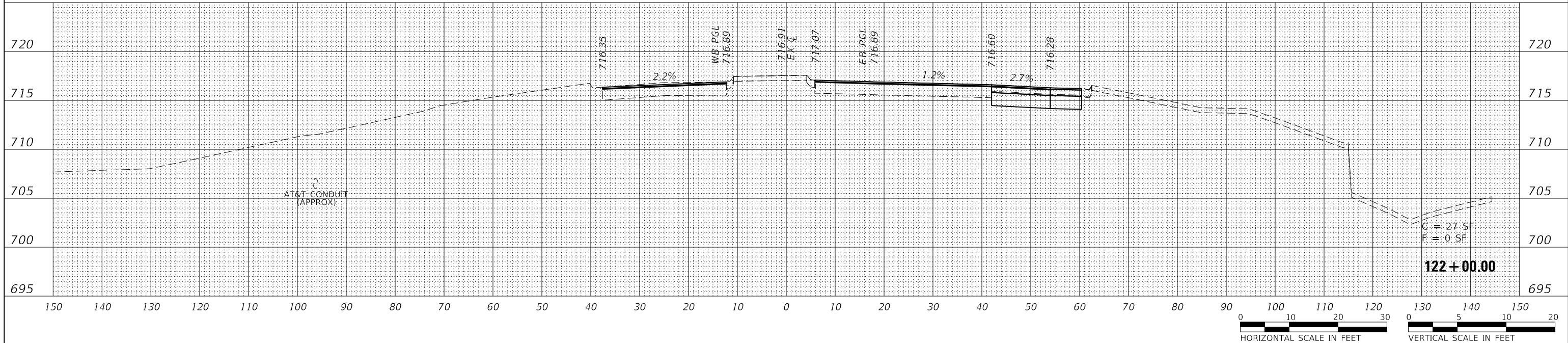
SCALE: SHEET 5 OF 27 SHEETS STA. 121+00.00 TO STA. 121+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	266
				CONTRACT NO. 61G12
				ILLINOIS FED. AID PROJECT

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



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



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DESIGNED -	D.M.S.	REVISED -	
DRAWN -	D.M.S.	REVISED -	
CHECKED -	D.J.C.	REVISED -	
DATE -	09-01-2020	REVISED -	

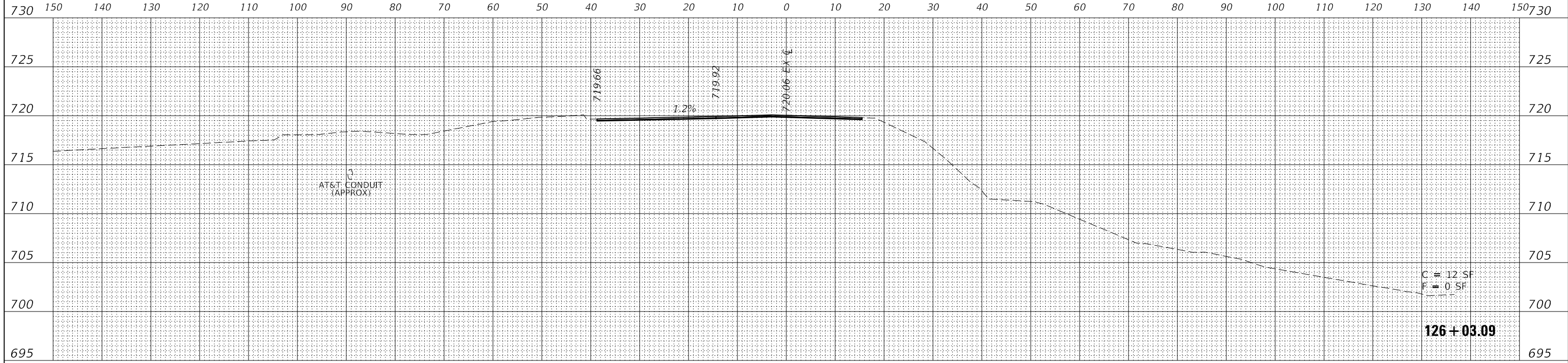
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS-SECTIONS
31ST STREET

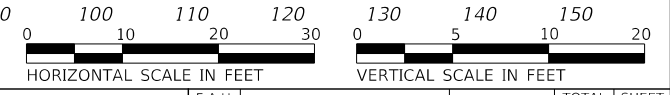
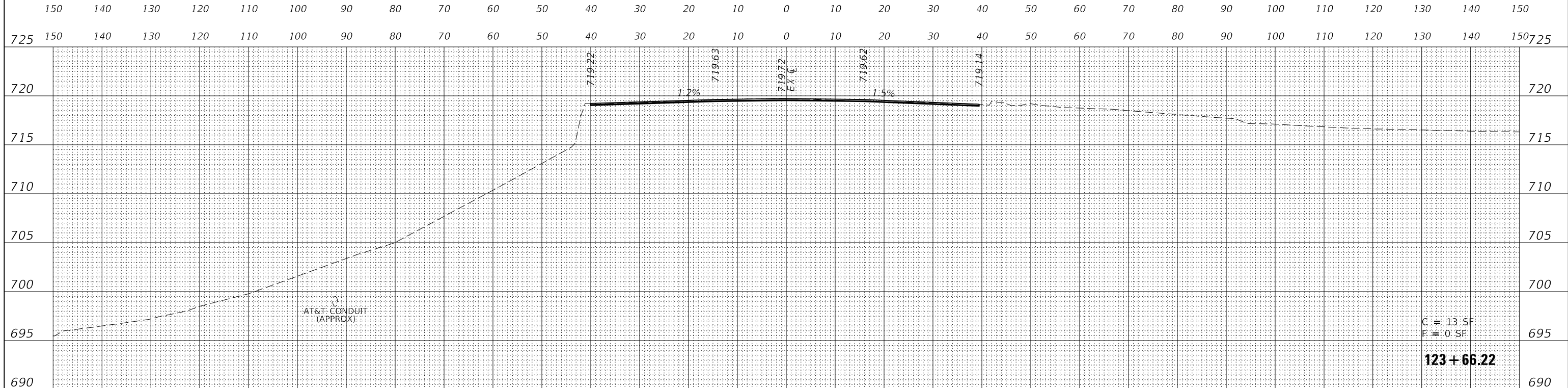
SCALE: SHEET 6 OF 27 SHEETS STA. 122+00.00 TO STA. 122+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	267
CONTRACT NO. 61G12				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



DESIGNED -	D.M.S.	REVISED -	
DRAWN -	D.M.S.	REVISED -	
CHECKED -	D.J.C.	REVISED -	
DATE -	09-01-2020	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

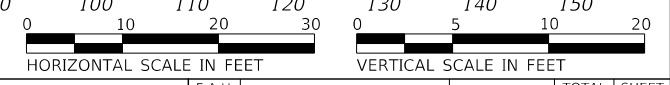
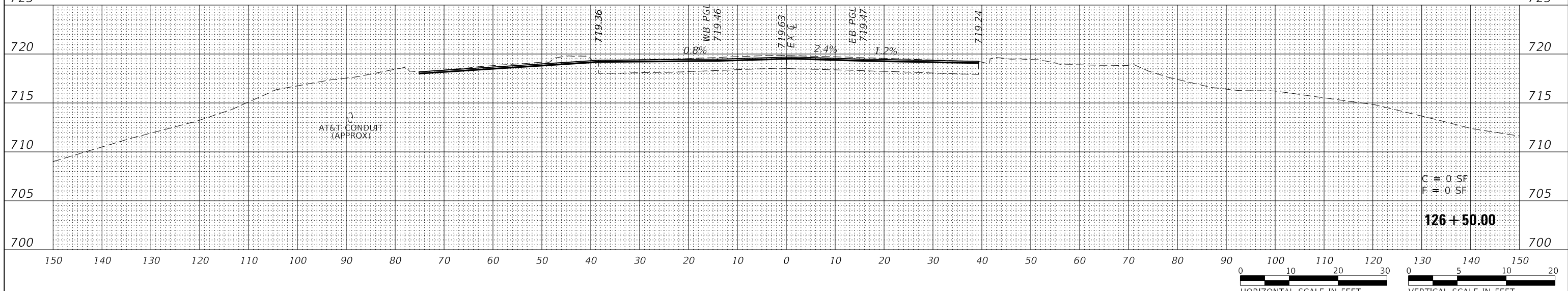
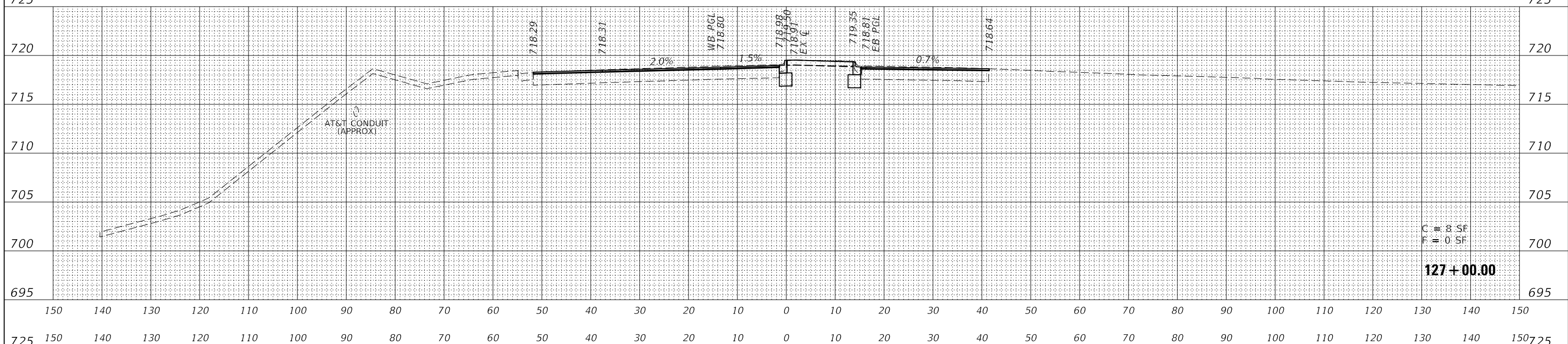
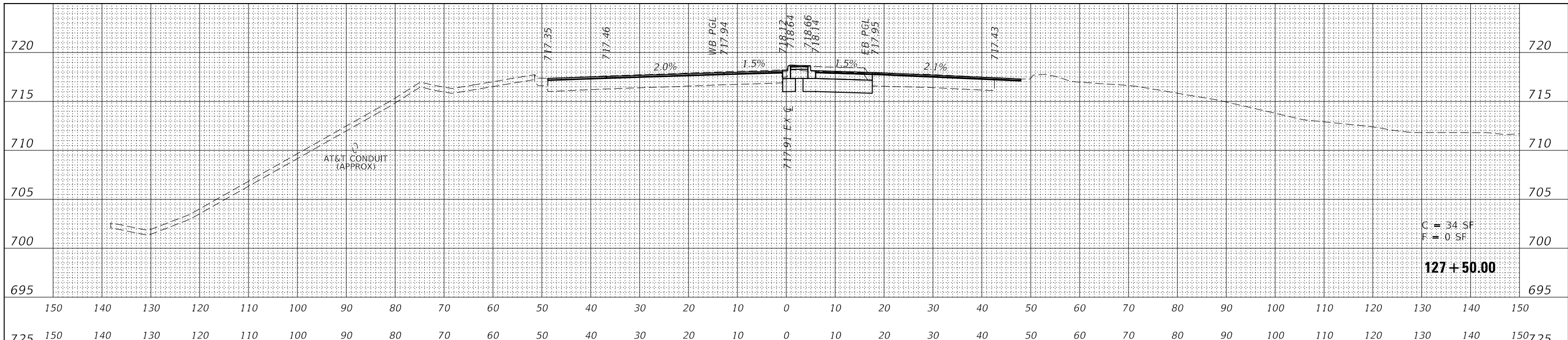
**CROSS-SECTIONS
31ST STREET**

SCALE: SHEET 8 OF 27 SHEETS STA. 123+66.22 TO STA. 126+03.09

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	269
				CONTRACT NO. 61G12
		ILLINOIS	FED. AID PROJECT	

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

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



DESIGNED -	D.M.S.	REVISED -	
DRAWN -	D.M.S.	REVISED -	
CHECKED -	D.J.C.	REVISED -	
DATE -	09-01-2020	REVISED -	

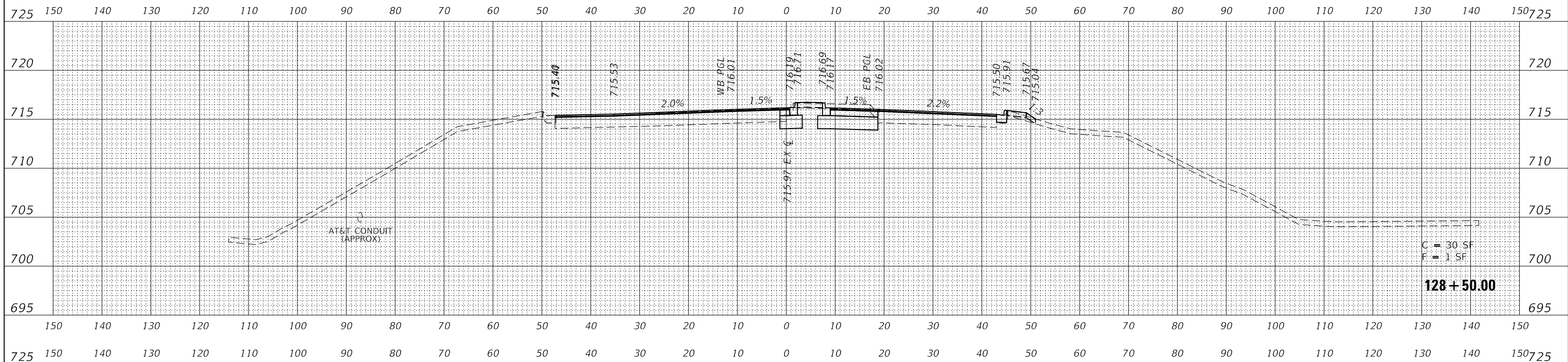
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS-SECTIONS
31ST STREET**

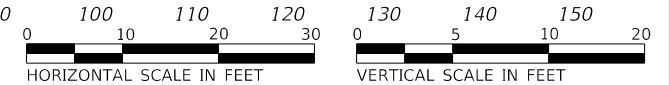
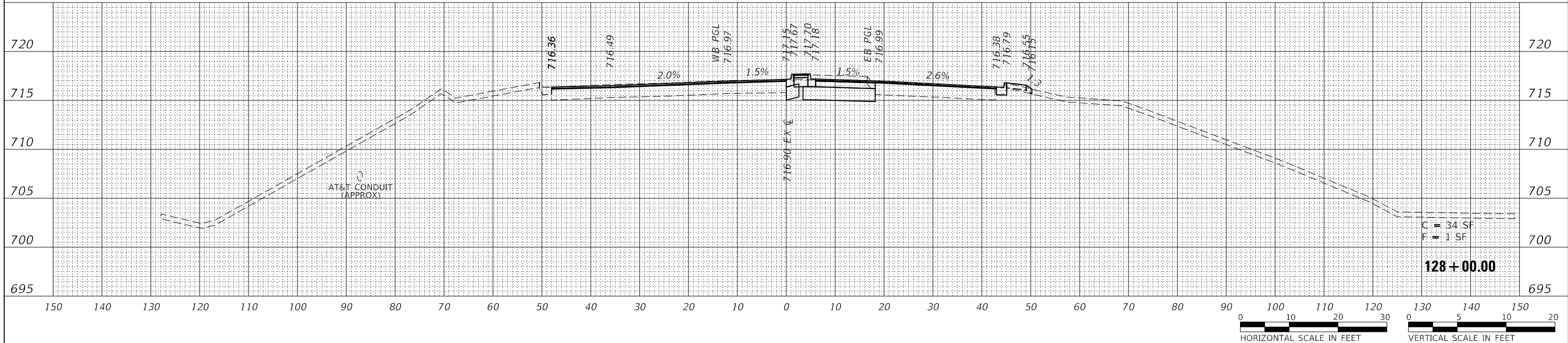
SCALE: SHEET 9 OF 27 SHEETS STA. 126+50.00 TO STA. 127+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	270
CONTRACT NO. 61G12				
ILLINOIS FED. AID PROJECT				

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



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



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DESIGNED -	D.M.S.	REVISED -	
DRAWN -	D.M.S.	REVISED -	
CHECKED -	D.J.C.	REVISED -	
DATE -	09-01-2020	REVISED -	

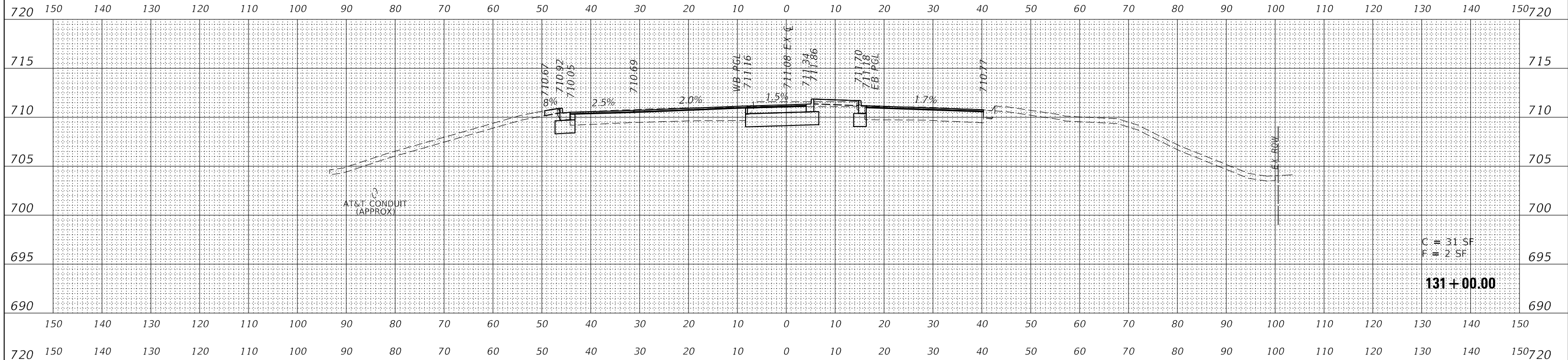
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS-SECTIONS
31ST STREET

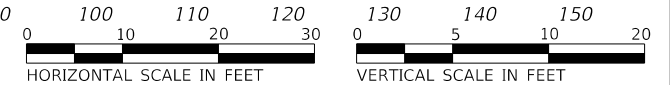
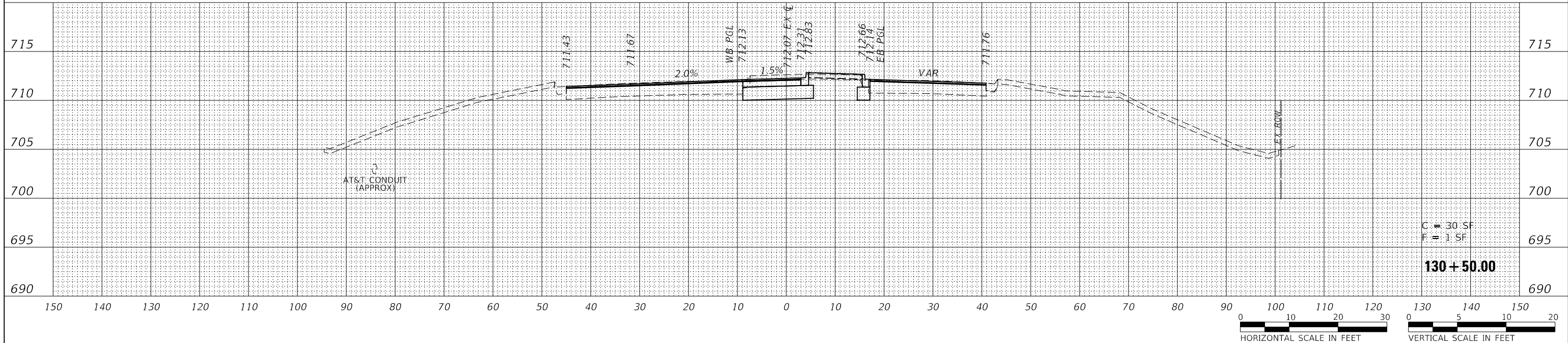
SCALE: SHEET 10 OF 27 SHEETS STA. 128+00.00 TO STA. 128+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	271
				CONTRACT NO. 61G12
				ILLINOIS FED. AID PROJECT

FINAL SURVEY NO.	SURVEYED	BY	DATE
	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		



ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		



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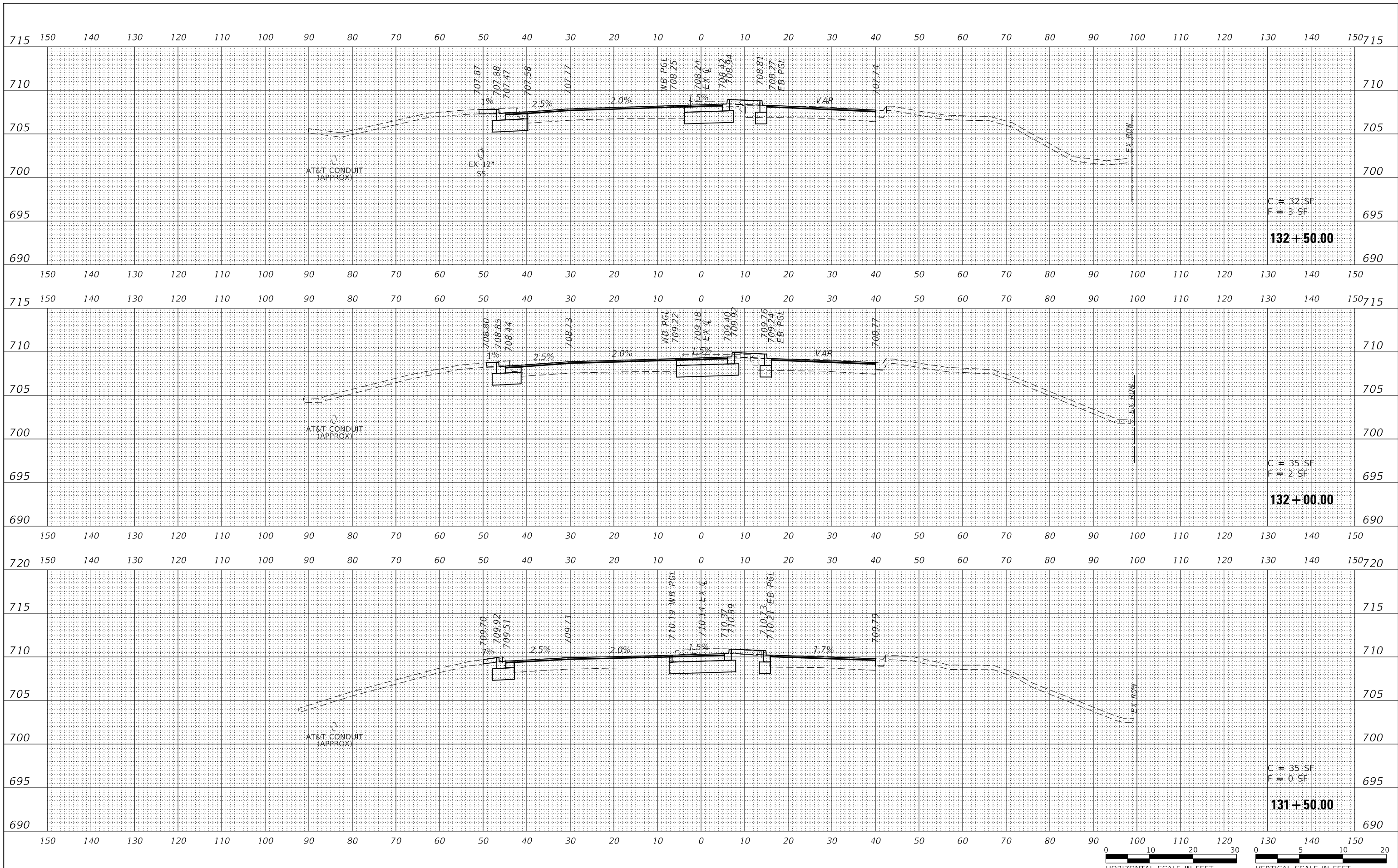
DESIGNED -	D.M.S.	REVISED -	
DRAWN -	D.M.S.	REVISED -	
CHECKED -	D.J.C.	REVISED -	
DATE -	09-01-2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS-SECTIONS
31ST STREET

SCALE: SHEET 12 OF 27 SHEETS STA. 130+50.00 TO STA. 131+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	273
				CONTRACT NO. 61G12
		ILLINOIS	FED. AID PROJECT	



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

KNIGHT
Engineers & Architects

DESIGNED -	D.M.S.	REVISED -	
DRAWN -	D.M.S.	REVISED -	
CHECKED -	D.J.C.	REVISED -	
DATE -	09-01-2020	REVISED -	

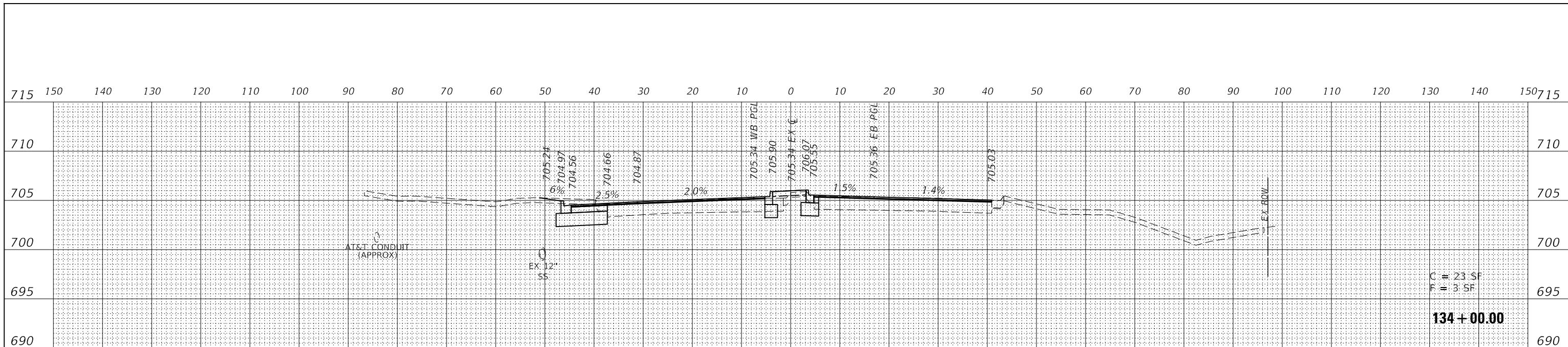
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS-SECTIONS
31ST STREET**

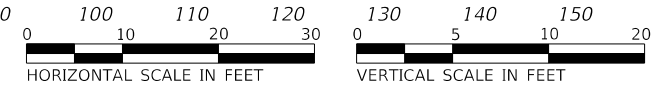
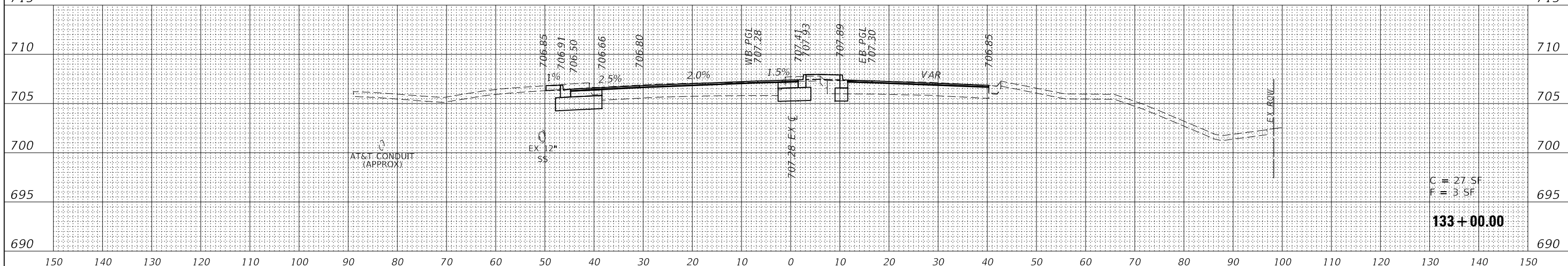
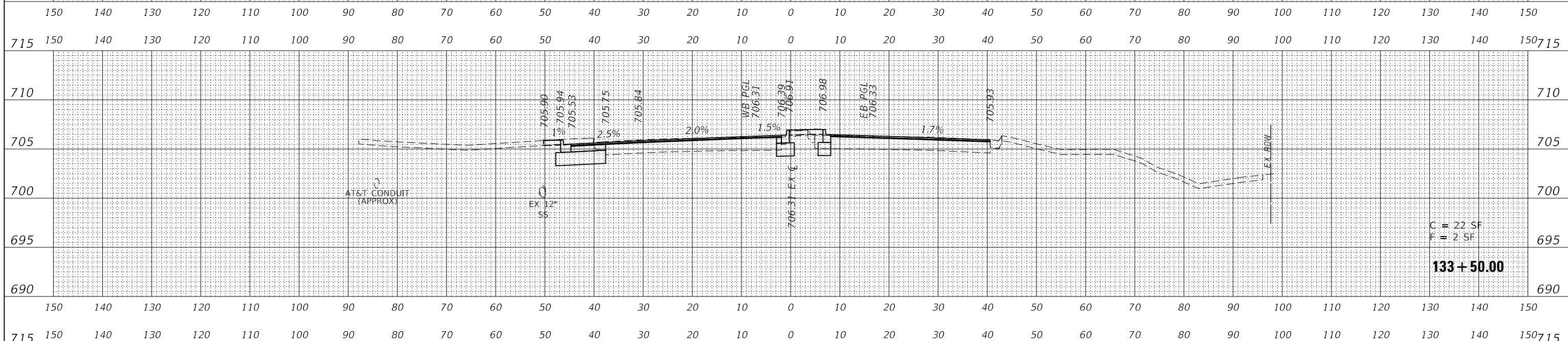
SCALE: SHEET 13 OF 27 SHEETS STA. 131+50.00 TO STA. 132+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	274
				CONTRACT NO. 61G12
ILLINOIS		FED. AID PROJECT		

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



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



DESIGNED -	D.M.S.	REVISED -	
DRAWN -	D.M.S.	REVISED -	
CHECKED -	D.J.C.	REVISED -	
DATE -	09-01-2020	REVISED -	

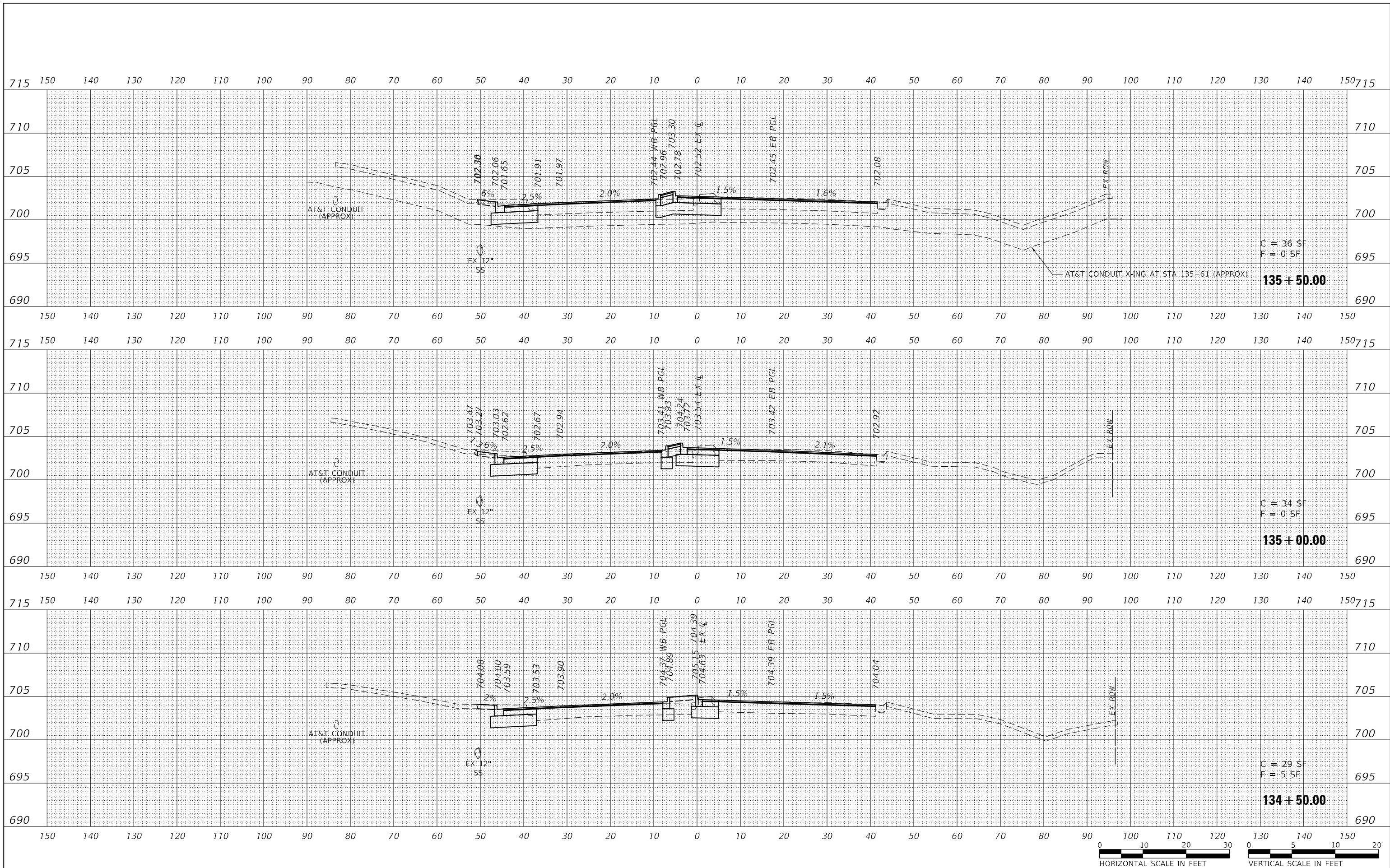
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS-SECTIONS
31ST STREET**

SCALE: SHEET 14 OF 27 SHEETS STA. 133+00.00 TO STA. 134+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH		294	275
				CONTRACT NO. 61G12

ILLINOIS FED. AID PROJECT



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

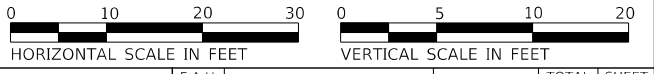


DESIGNED -	D.M.S.	REVISED -	
DRAWN -	D.M.S.	REVISED -	
CHECKED -	D.J.C.	REVISED -	
DATE -	09-01-2020	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

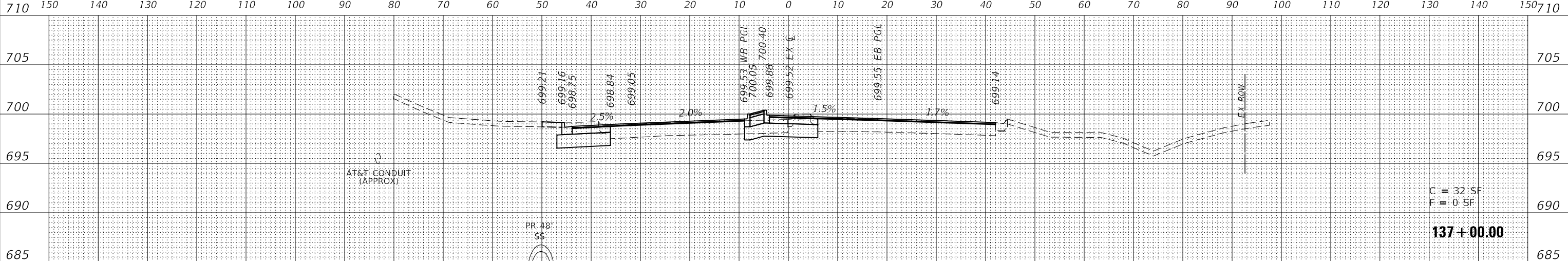
**CROSS-SECTIONS
31ST STREET**

SCALE: SHEET 15 OF 27 SHEETS STA. 134+50.00 TO STA. 135+50.00

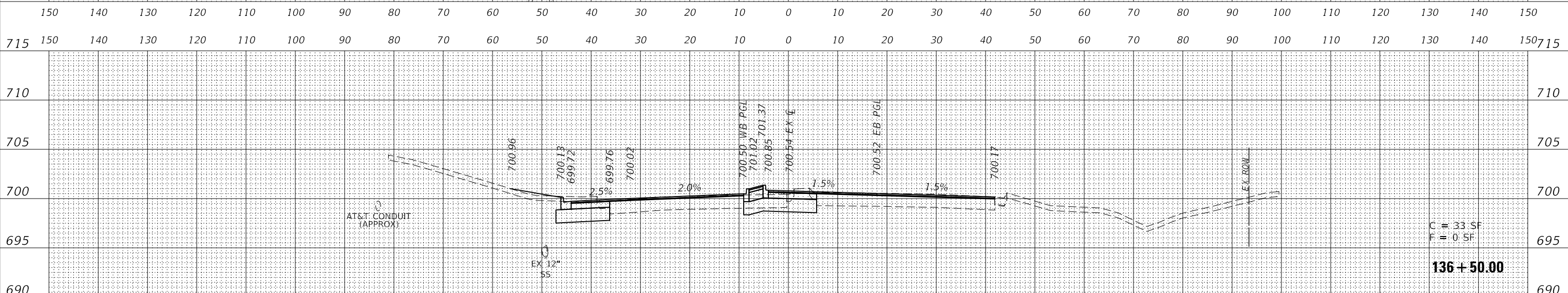


F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH		294	276
CONTRACT NO. 61G12				
ILLINOIS		FED. AID PROJECT		

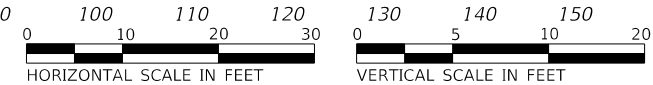
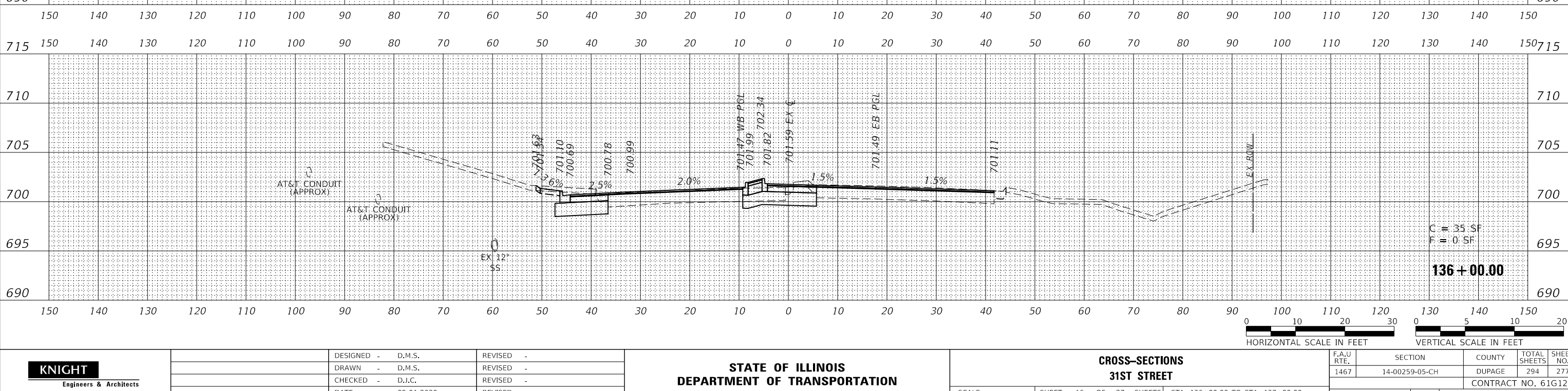
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
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DATE	
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PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
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DATE	
BY	
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PLOTTED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



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CHECKED -	D.J.C.	REVISED -	
DATE -	09-01-2020	REVISED -	

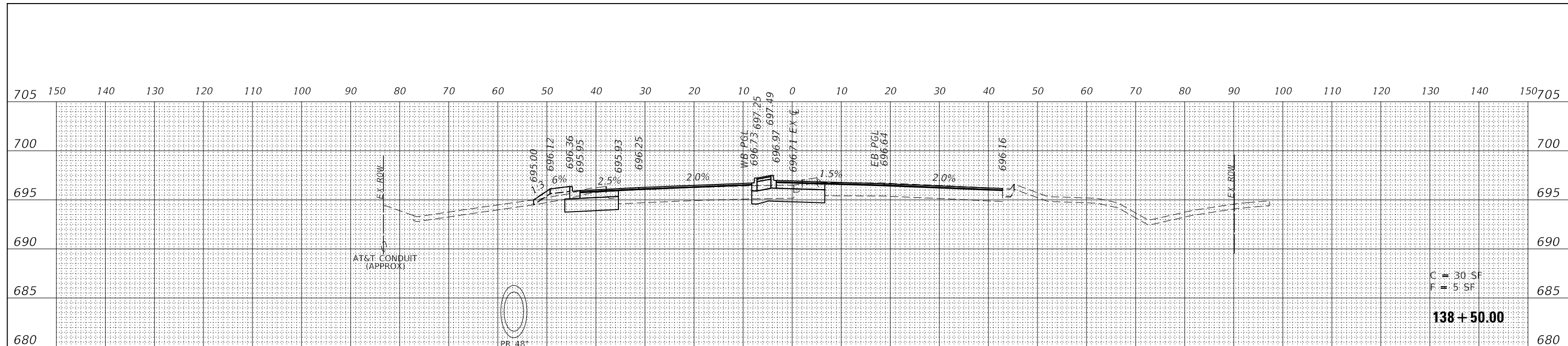
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS-SECTIONS
31ST STREET

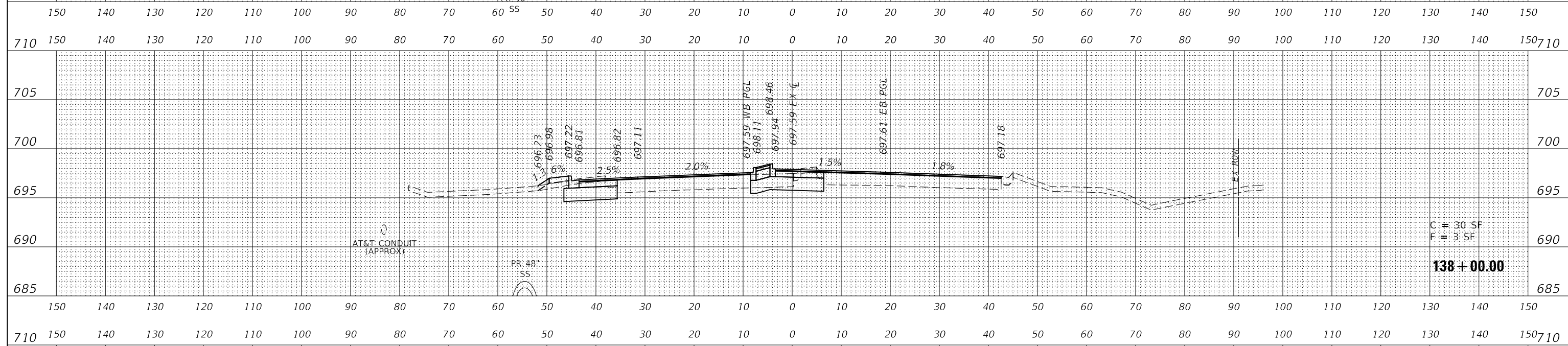
SCALE: SHEET 16 OF 27 SHEETS STA. 136+00.00 TO STA. 137+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH		294	277
CONTRACT NO. 61G12				
ILLINOIS FED. AID PROJECT				

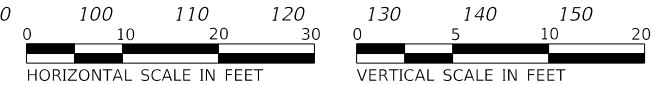
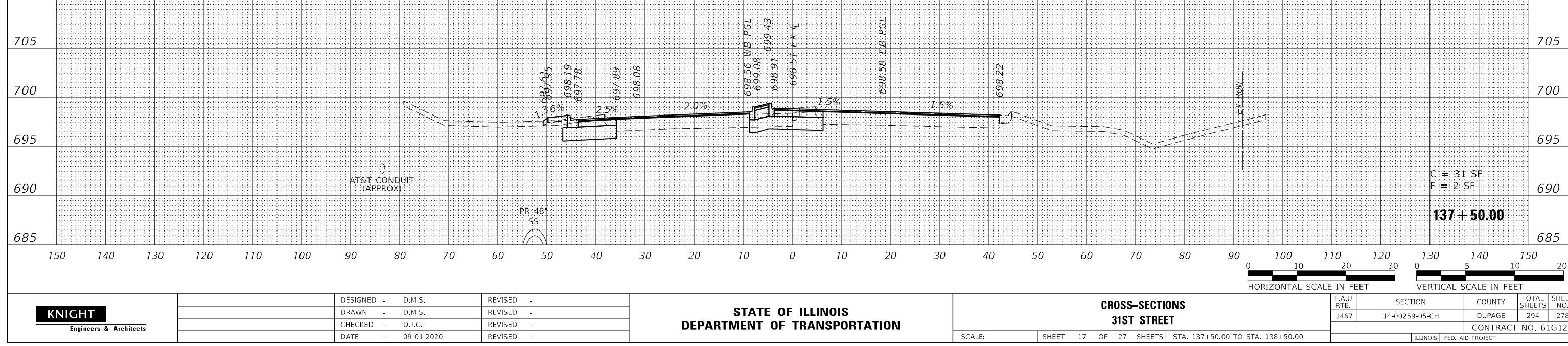
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



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DRAWN -	D.M.S.	REVISED -	
CHECKED -	D.J.C.	REVISED -	
DATE -	09-01-2020	REVISED -	

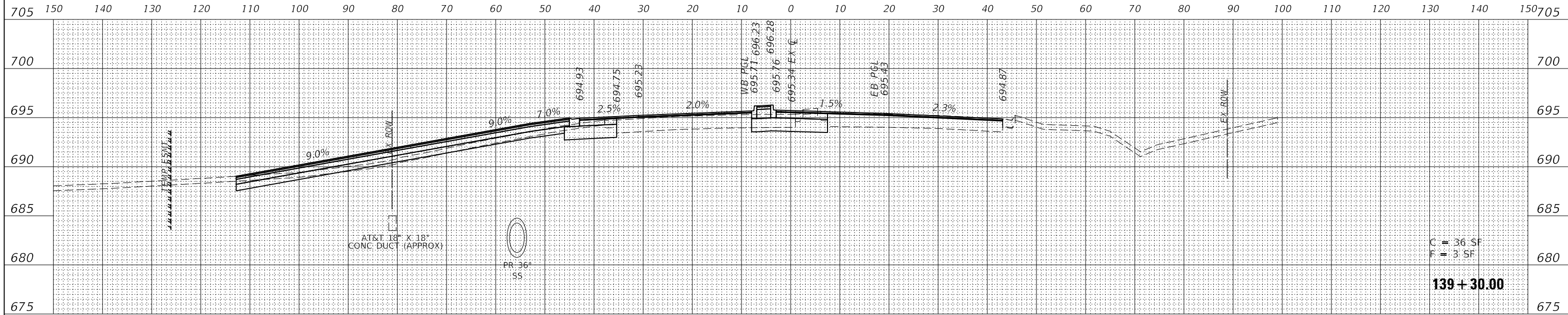
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS-SECTIONS
31ST STREET**

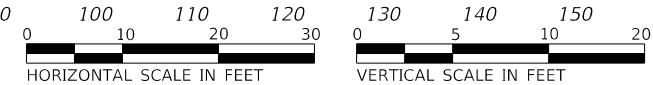
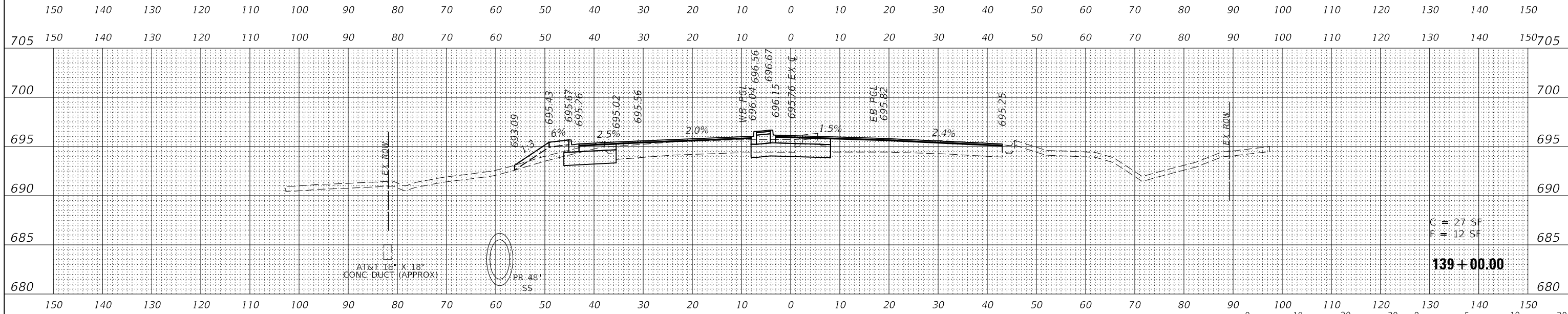
SCALE: SHEET 17 OF 27 SHEETS STA. 137+50.00 TO STA. 138+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	278
CONTRACT NO. 61G12				
ILLINOIS FED. AID PROJECT				

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



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



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DESIGNED -	D.M.S.	REVISED -	
DRAWN -	D.M.S.	REVISED -	
CHECKED -	D.J.C.	REVISED -	
DATE -	09-01-2020	REVISED -	

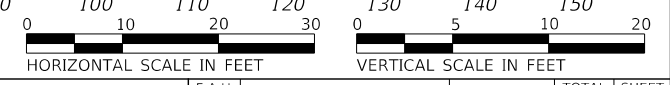
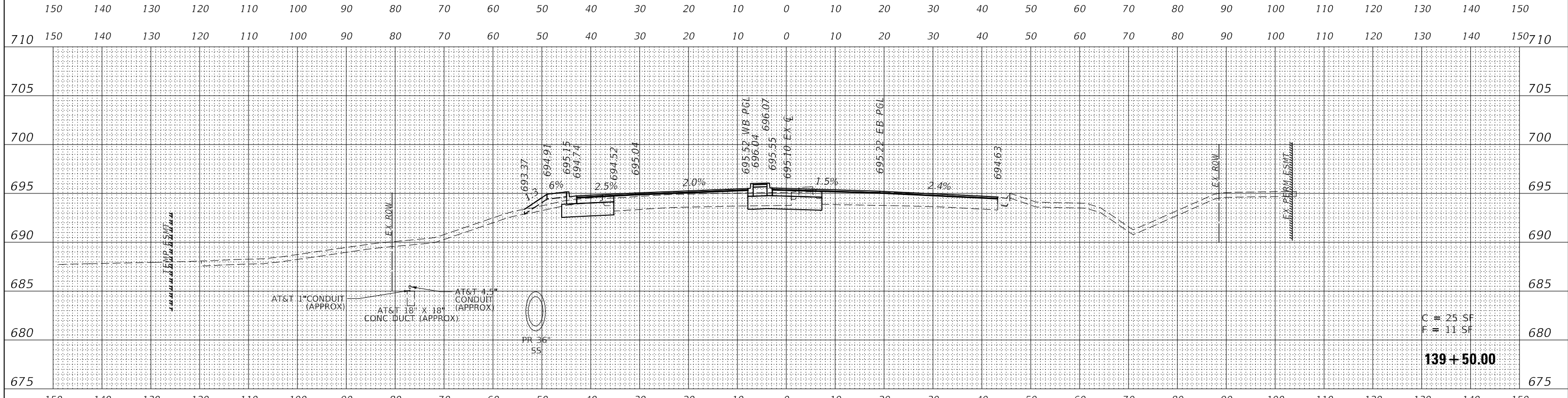
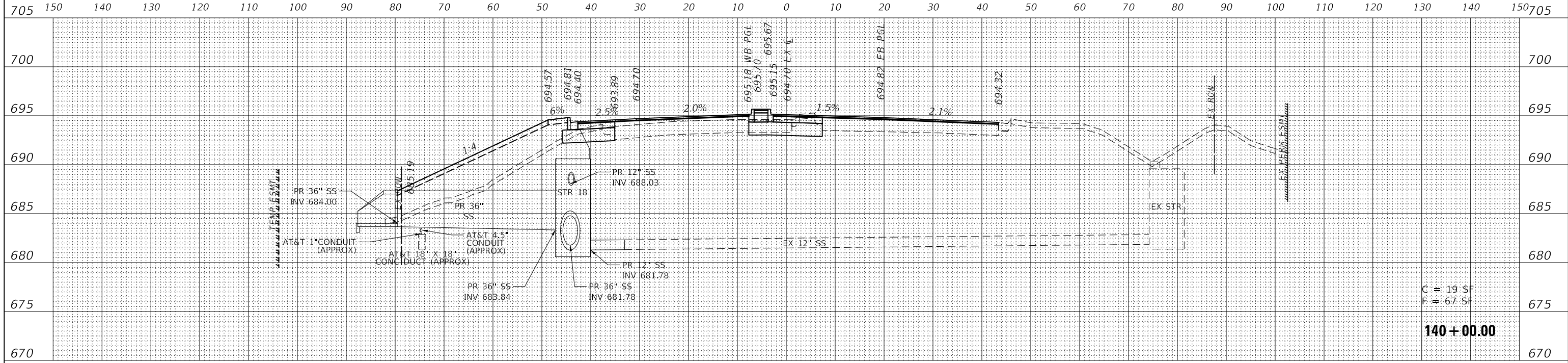
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS-SECTIONS
31ST STREET

SCALE: SHEET 18 OF 27 SHEETS STA. 139+00.00 TO STA. 139+30.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	279
CONTRACT NO. 61G12				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
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DESIGNED -	D.M.S.	REVISED -	
DRAWN -	D.M.S.	REVISED -	
CHECKED -	D.J.C.	REVISED -	
DATE -	09-01-2020	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

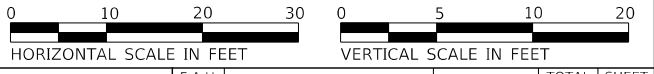
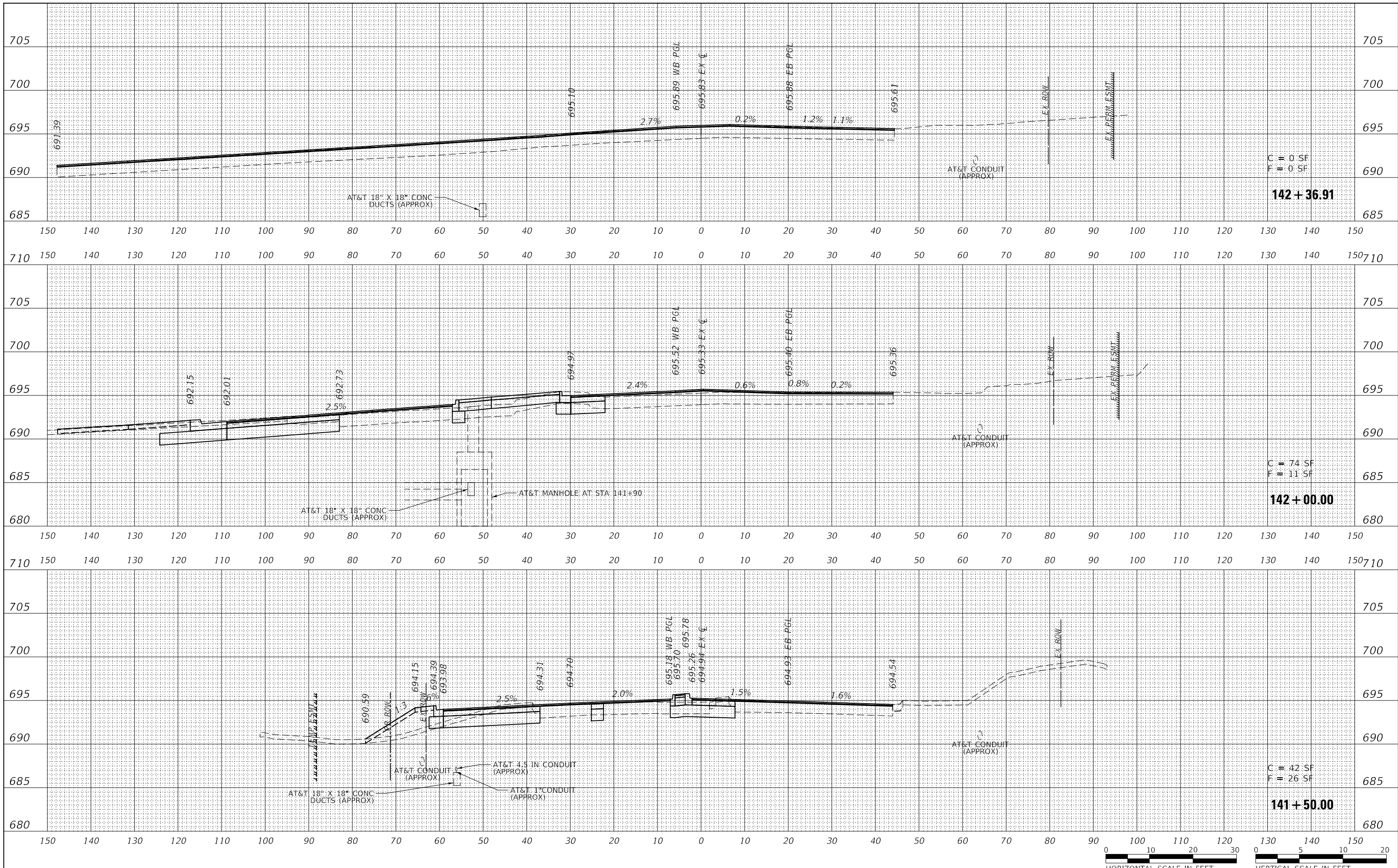
**CROSS-SECTIONS
31ST STREET**

SCALE: SHEET 19 OF 27 SHEETS STA. 139+50.00 TO STA. 140+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	280
				CONTRACT NO. 61G12
ILLINOIS		FED. AID PROJECT		

DATE	BY

DATE	BY



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DRAWN - D.M.S.	REVISED -
CHECKED - D.J.C.	REVISED -
DATE - 09-01-2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

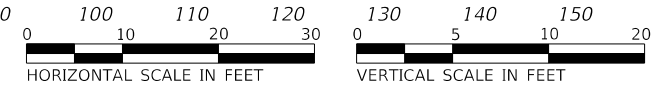
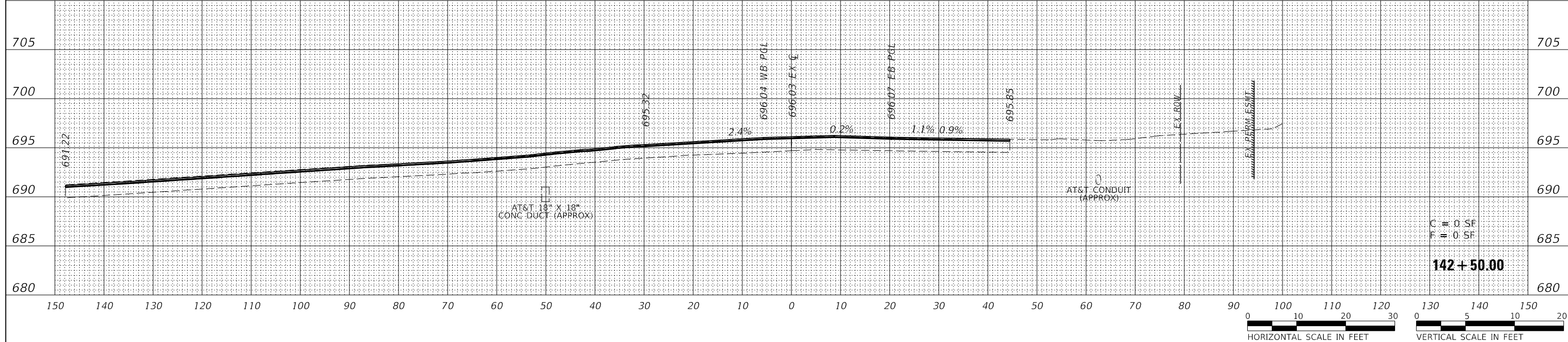
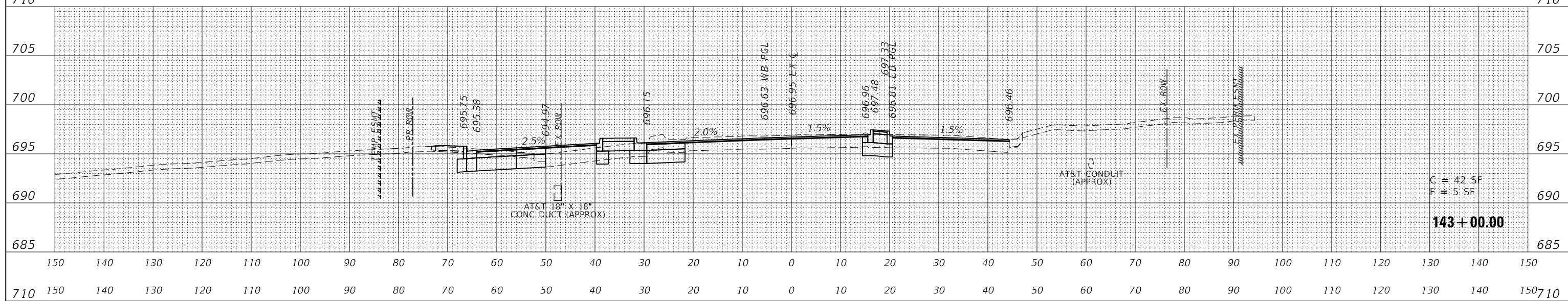
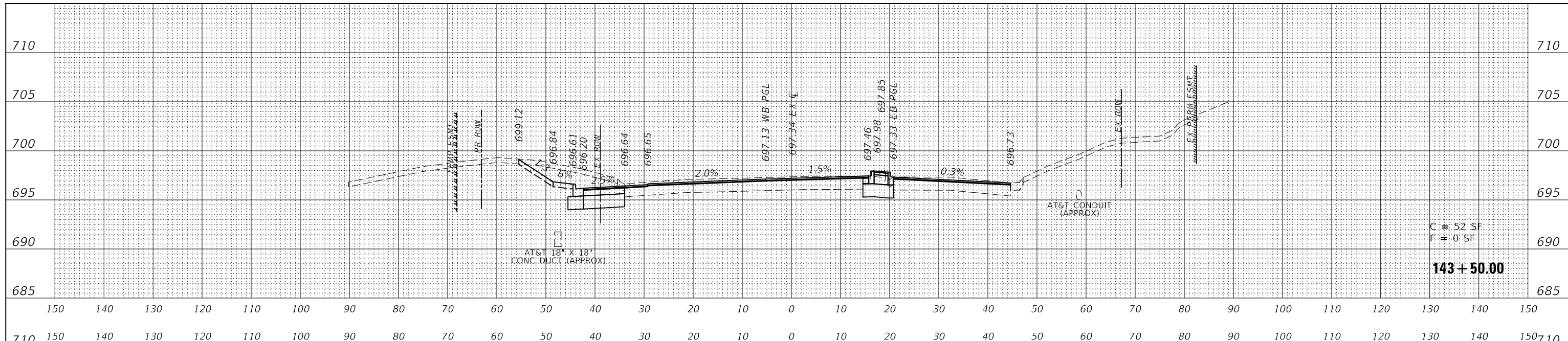
**CROSS-SECTIONS
31ST STREET**

SCALE: SHEET 21 OF 27 SHEETS STA. 141+50.00 TO STA. 142+36.91

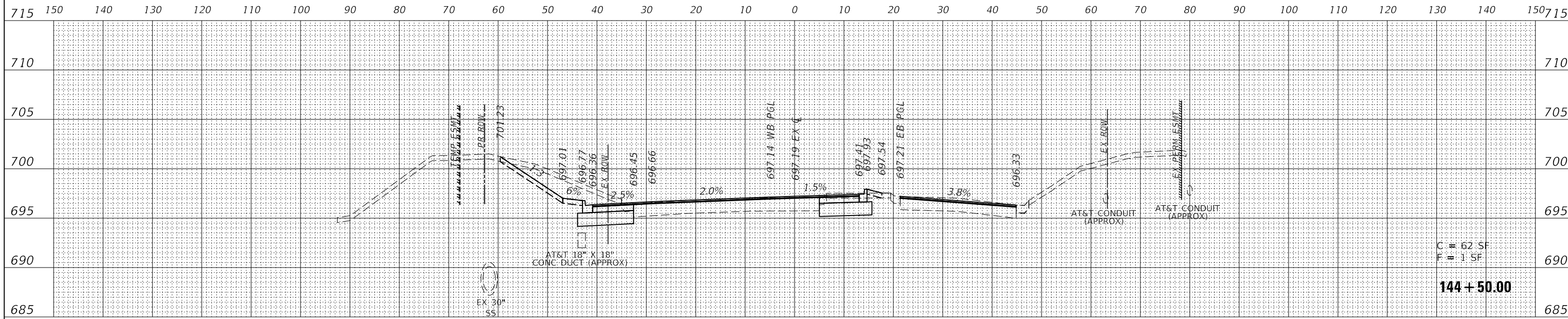
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	282
CONTRACT NO. 61G12				
ILLINOIS FED. AID PROJECT				

BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

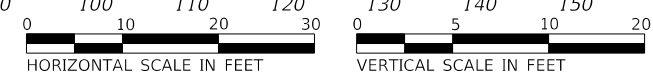
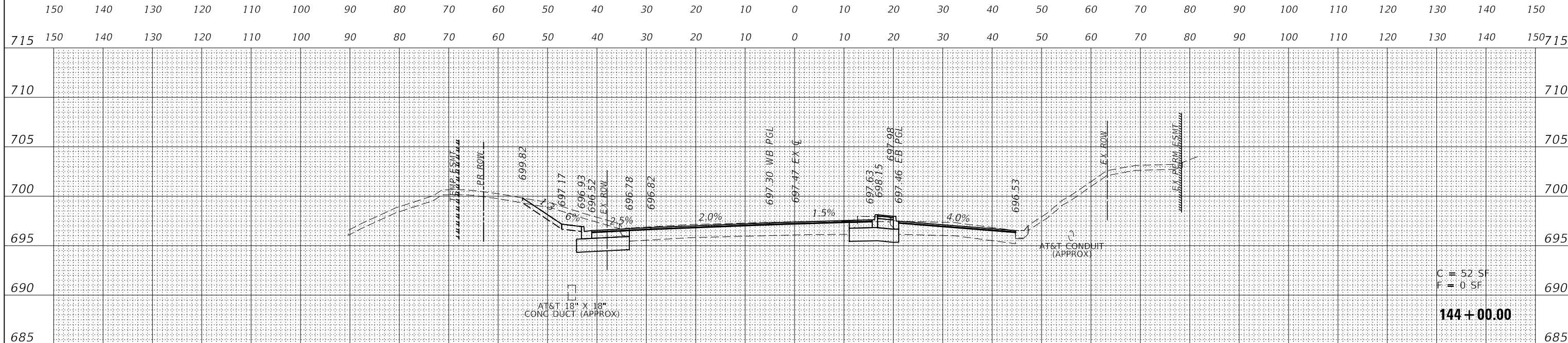
BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	



FINAL SURVEY NO.	SURVEYED	BY	DATE
	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



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DRAWN -	D.M.S.	REVISED -	
CHECKED -	D.J.C.	REVISED -	
DATE -	09-01-2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

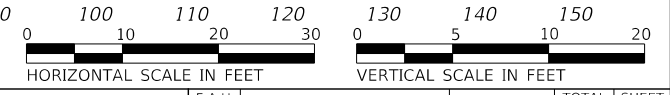
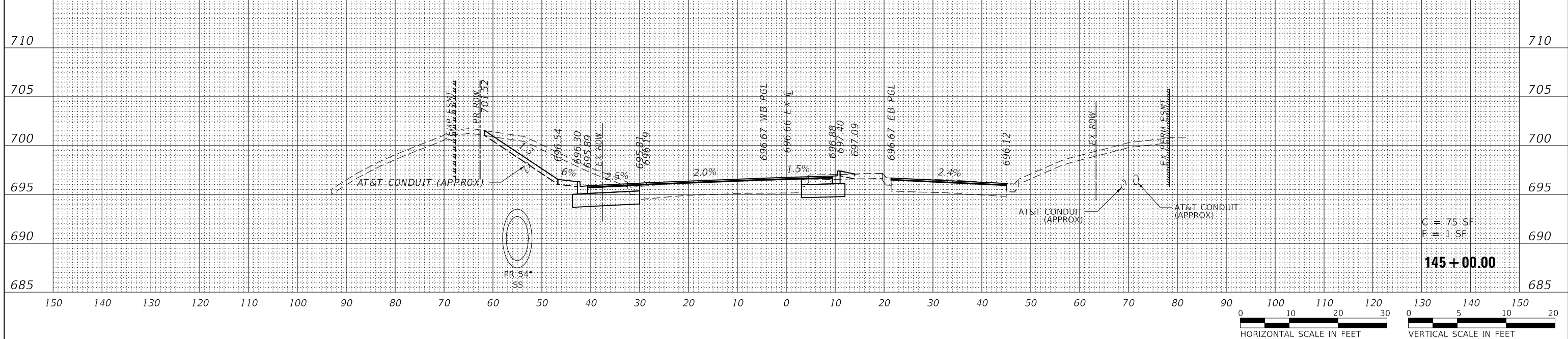
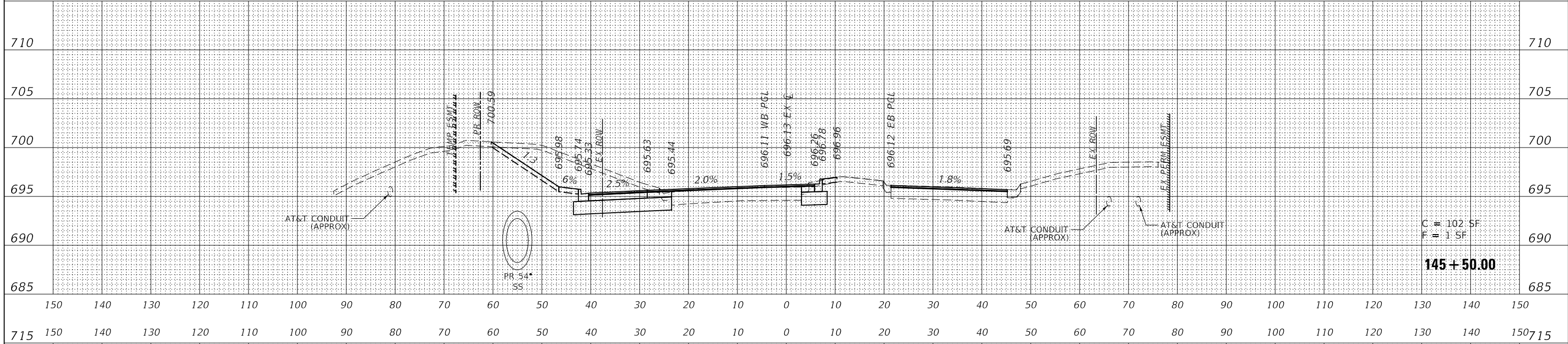
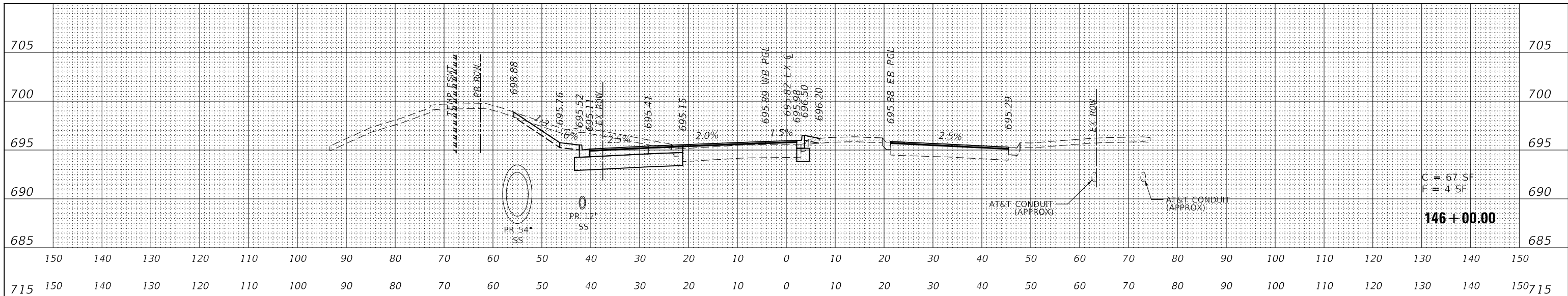
CROSS-SECTIONS
31ST STREET

SCALE: SHEET 23 OF 27 SHEETS STA. 144+00.00 TO STA. 144+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	284
CONTRACT NO. 61G12				
ILLINOIS FED. AID PROJECT				

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

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



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DRAWN -	D.M.S.	REVISED -	
CHECKED -	D.J.C.	REVISED -	
DATE -	09-01-2020	REVISED -	

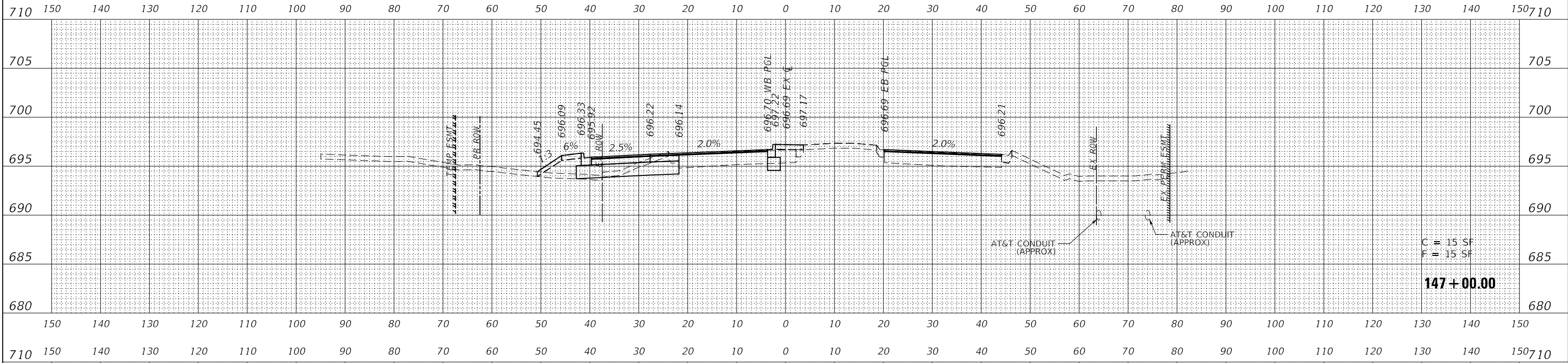
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS-SECTIONS
31ST STREET

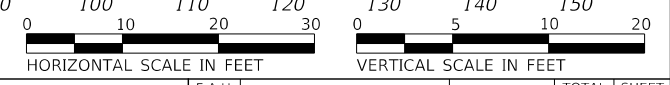
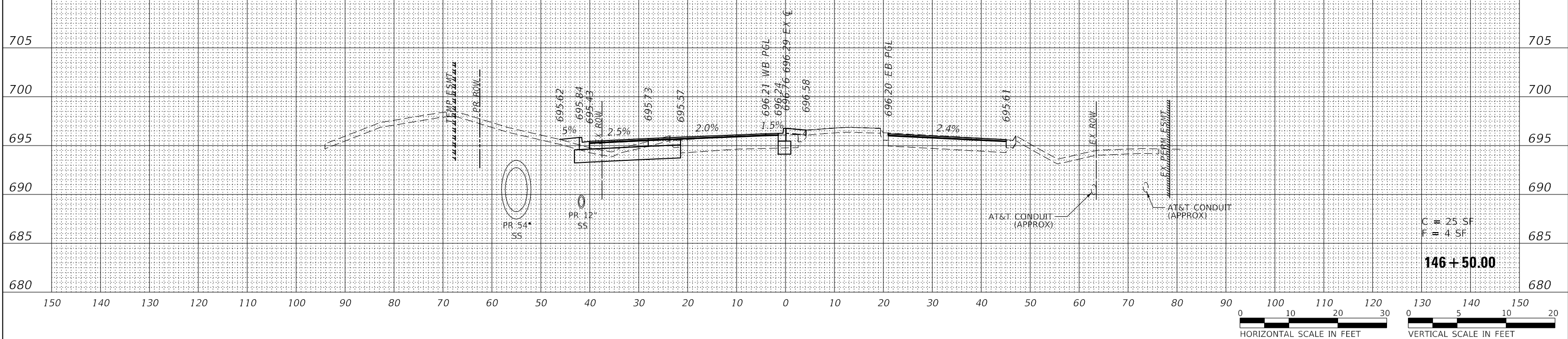
SCALE: SHEET 24 OF 27 SHEETS STA. 145+00.00 TO STA. 146+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	285
CONTRACT NO. 61G12			ILLINOIS FED. AID PROJECT	

FINAL SURVEY NO.	SURVEYED	BY	DATE
	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



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DRAWN -	D.M.S.	REVISED -	
CHECKED -	D.J.C.	REVISED -	
DATE -	09-01-2020	REVISED -	

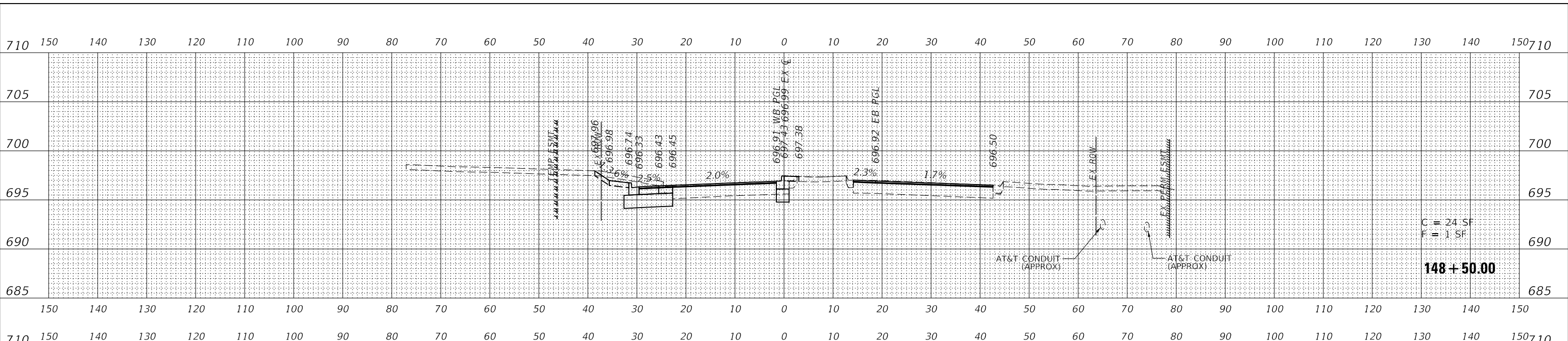
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS-SECTIONS
31ST STREET

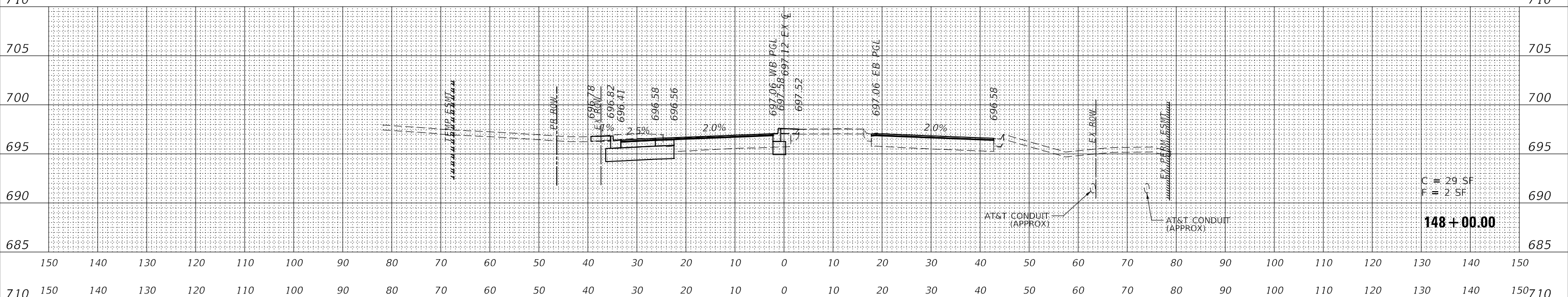
SCALE: SHEET 25 OF 27 SHEETS STA. 146+50.00 TO STA. 147+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	286
				CONTRACT NO. 61G12
				ILLINOIS FED. AID PROJECT

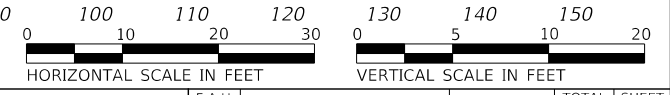
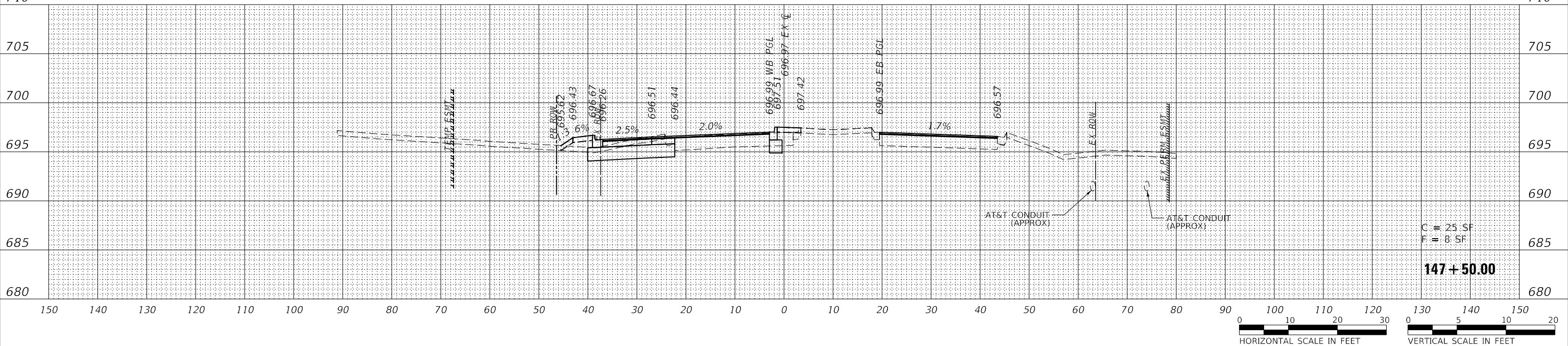
DATE	
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NOTE BOOK	
AREAS CHECKED	
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DATE	
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TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
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DATE	
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TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
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CHECKED -	D.J.C.	REVISED -	
DATE -	09-01-2020	REVISED -	

STATE OF ILLINOIS
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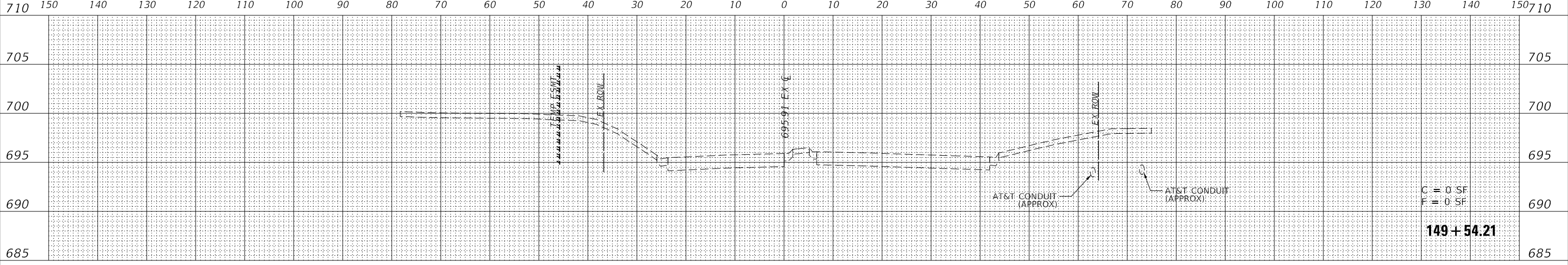
CROSS-SECTIONS
31ST STREET

SCALE: SHEET 26 OF 27 SHEETS STA. 147+50.00 TO STA. 148+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	287
CONTRACT NO. 61G12				

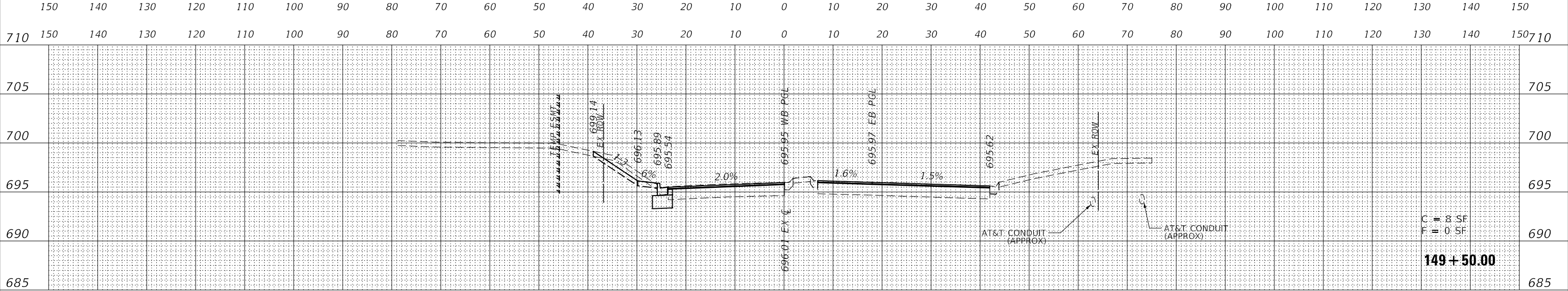
ILLINOIS FED. AID PROJECT

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



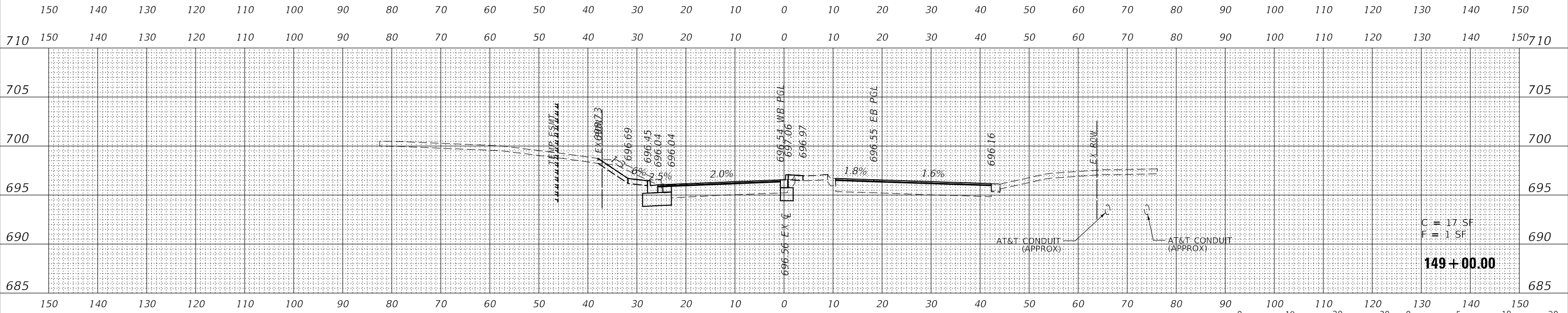
C = 0 SF
F = 0 SF
149 + 54.21

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

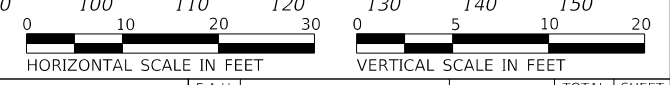


C = 8 SF
F = 0 SF
149 + 50.00

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



C = 17 SF
F = 1 SF
149 + 00.00



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DRAWN -	D.M.S.	REVISED -	
CHECKED -	D.J.C.	REVISED -	
DATE -	09-01-2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS-SECTIONS
31ST STREET

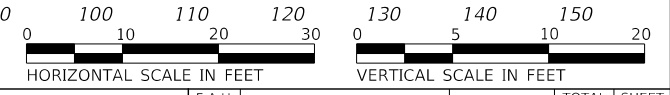
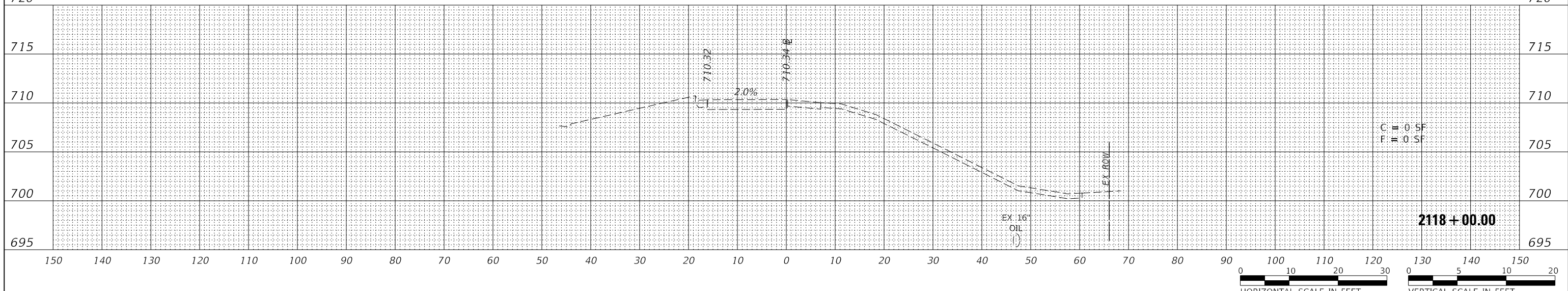
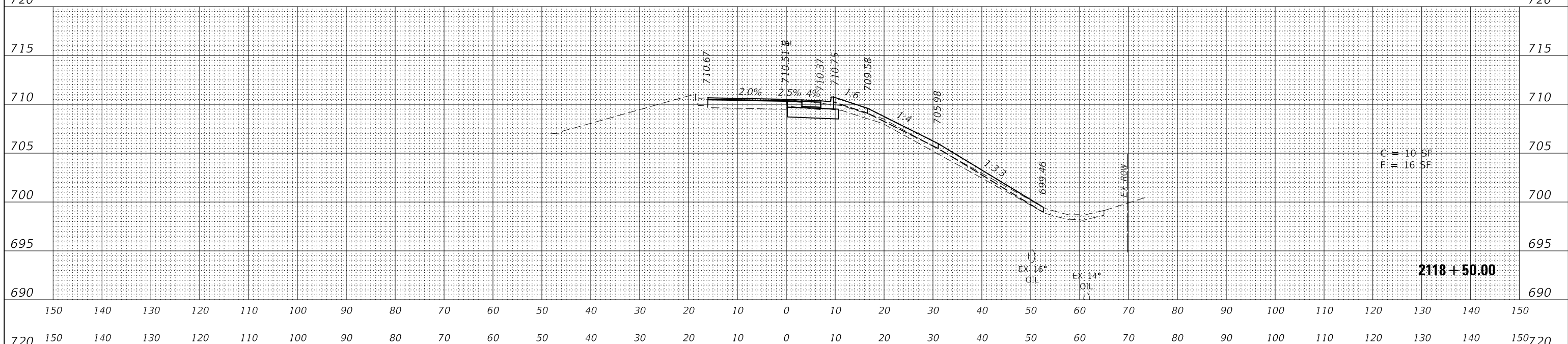
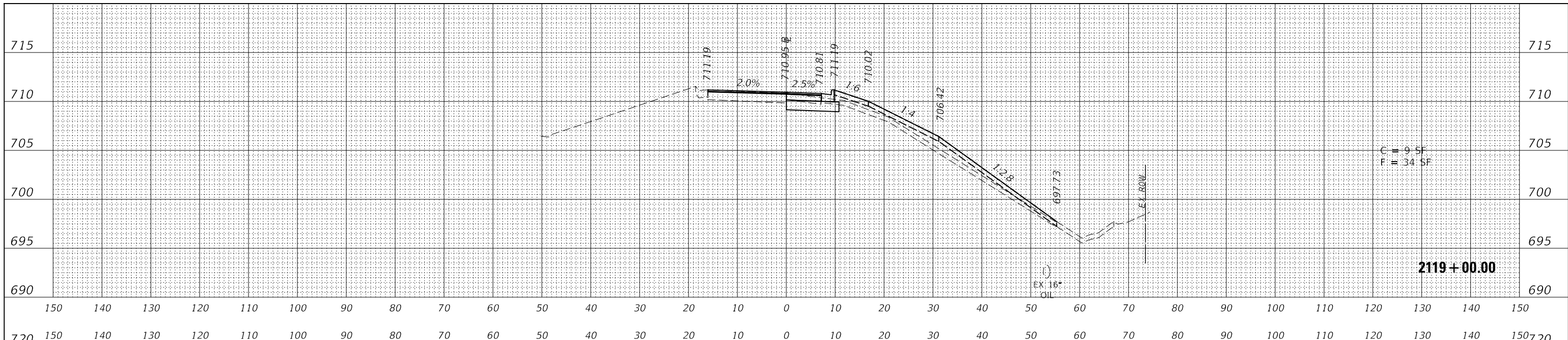
SCALE: SHEET 27 OF 27 SHEETS STA. 149+00.00 TO STA. 149+54.21

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH		294	288
CONTRACT NO. 61G12				

ILLINOIS FED. AID PROJECT

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

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



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Engineers & Architects

DESIGNED -	D.M.S.	REVISED -	
DRAWN -	D.M.S.	REVISED -	
CHECKED -	D.J.C.	REVISED -	
DATE -	09-01-2020	REVISED -	

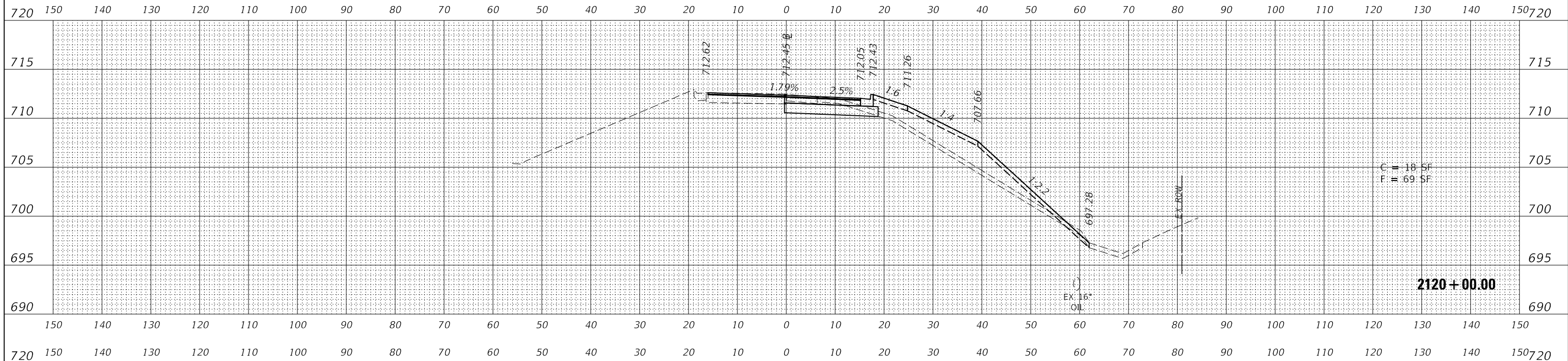
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS-SECTIONS
RAMP B

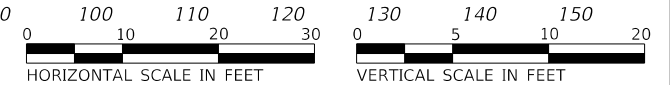
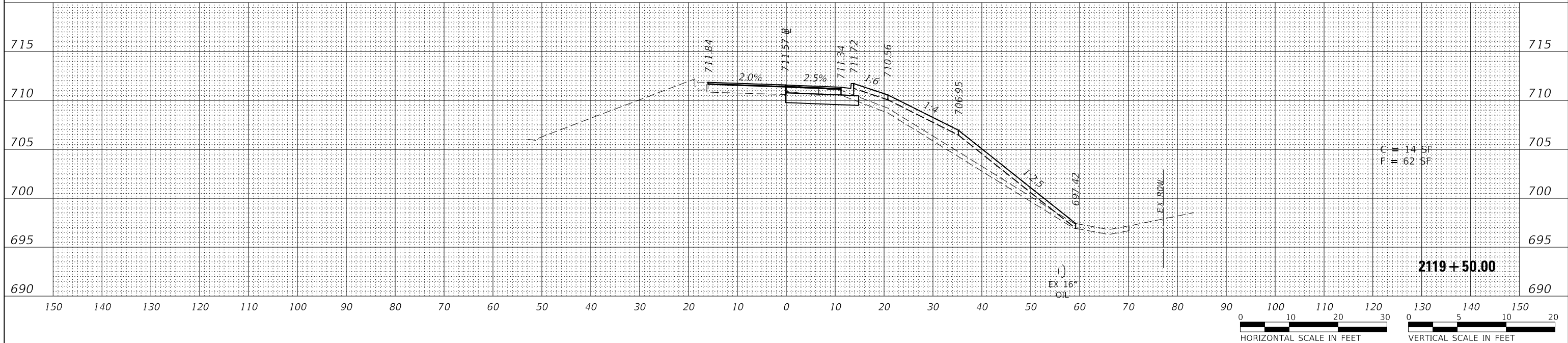
SCALE:	SHEET 1 OF 6 SHEETS	STA. 2118+00.00 TO STA. 2119+00.00
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	289
CONTRACT NO. 61G12				
ILLINOIS		FED. AID PROJECT		

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



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



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DESIGNED - D.M.S.	REVISED -
DRAWN - D.M.S.	REVISED -
CHECKED - D.J.C.	REVISED -
DATE - 09-01-2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

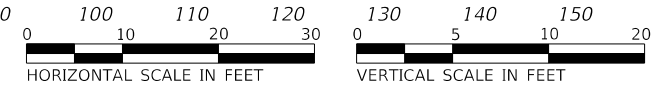
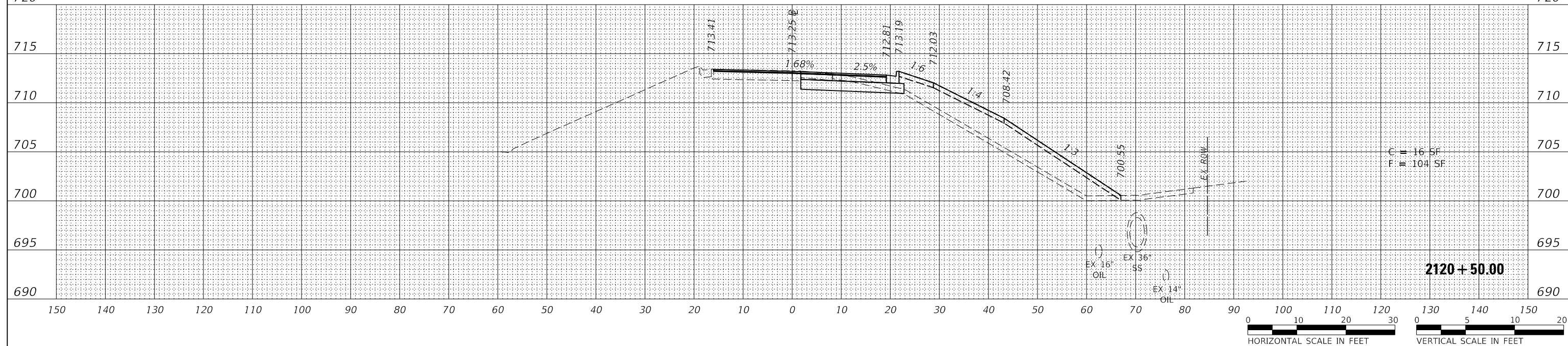
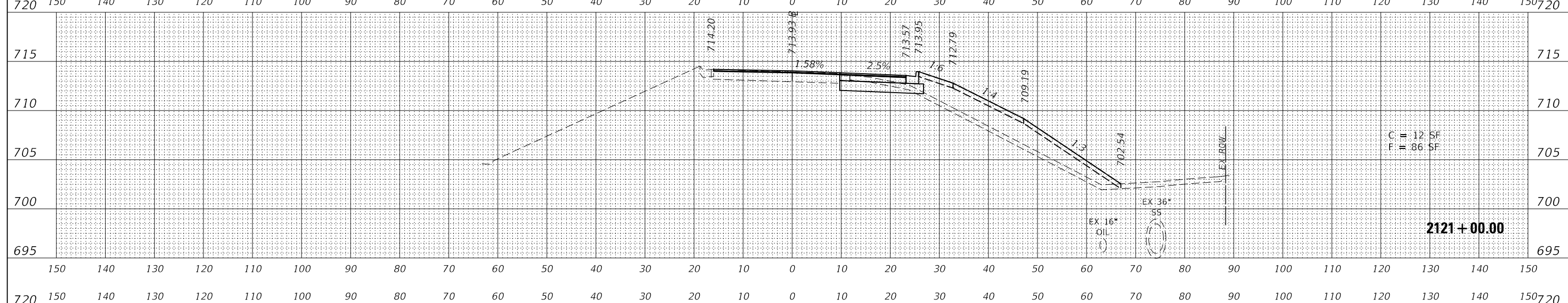
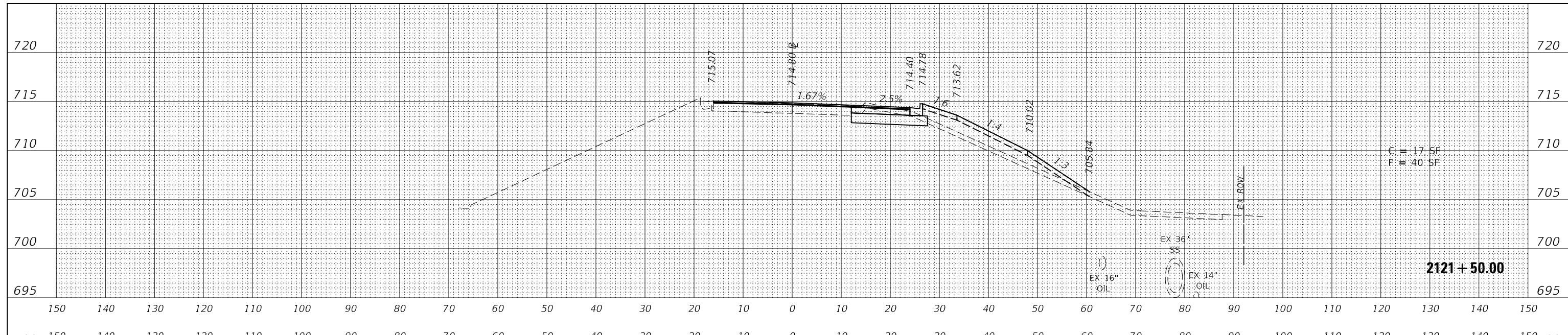
CROSS-SECTIONS
RAMP B

SCALE:	SHEET 2 OF 6 SHEETS	STA. 2119+50.00 TO STA. 2120+00.00
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	290
				CONTRACT NO. 61G12
		ILLINOIS	FED. AID PROJECT	

BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	



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DESIGNED	-	D.M.S.	REVISED	-
DRAWN	-	D.M.S.	REVISED	-
CHECKED	-	D.J.C.	REVISED	-
DATE	-	09-01-2020	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

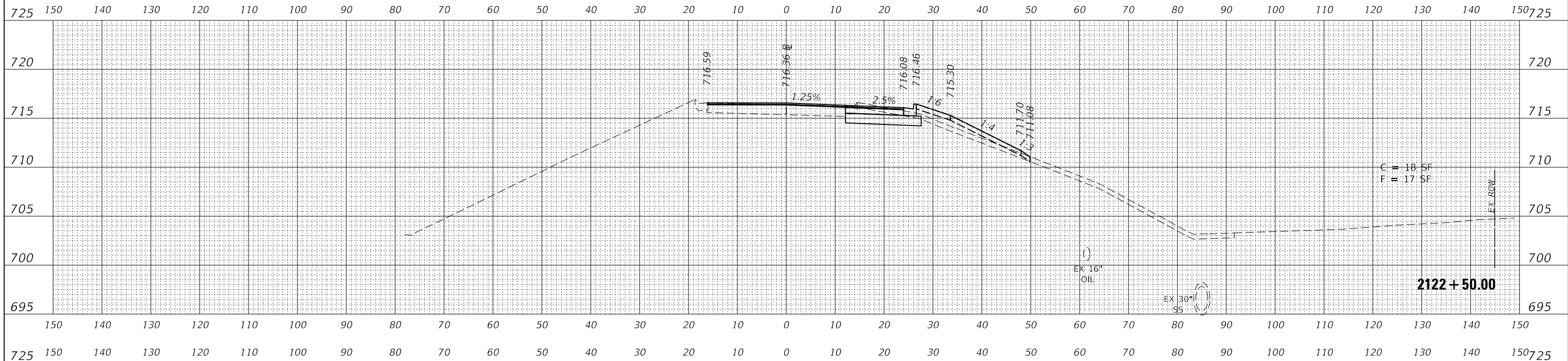
CROSS-SECTIONS
RAMP B

SCALE: SHEET 3 OF 6 SHEETS STA. 2120+50.00 TO STA. 2121+50.00

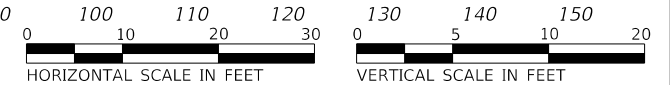
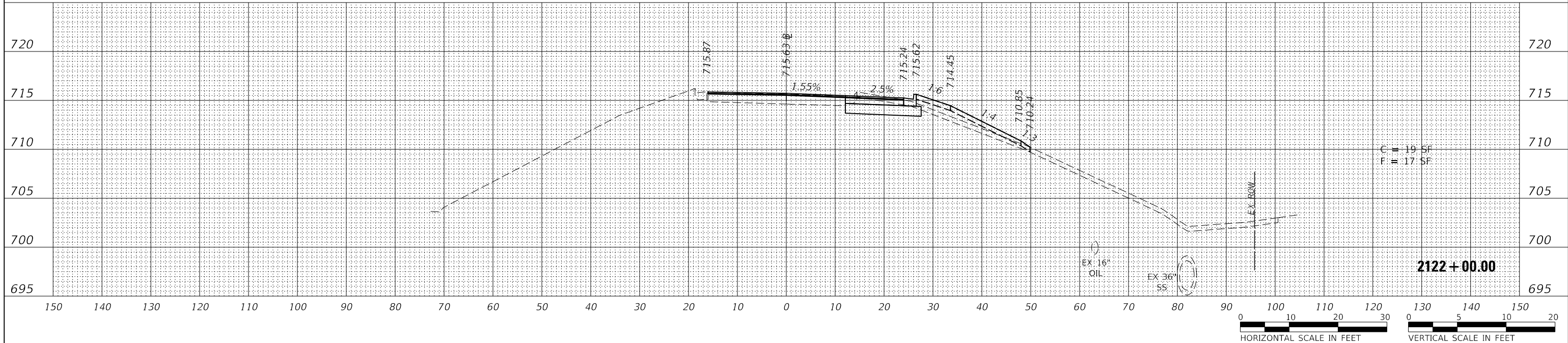
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	291
CONTRACT NO. 61G12				

ILLINOIS FED. AID PROJECT

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



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



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DESIGNED -	D.M.S.	REVISED -	
DRAWN -	D.M.S.	REVISED -	
CHECKED -	D.J.C.	REVISED -	
DATE -	09-01-2020	REVISED -	

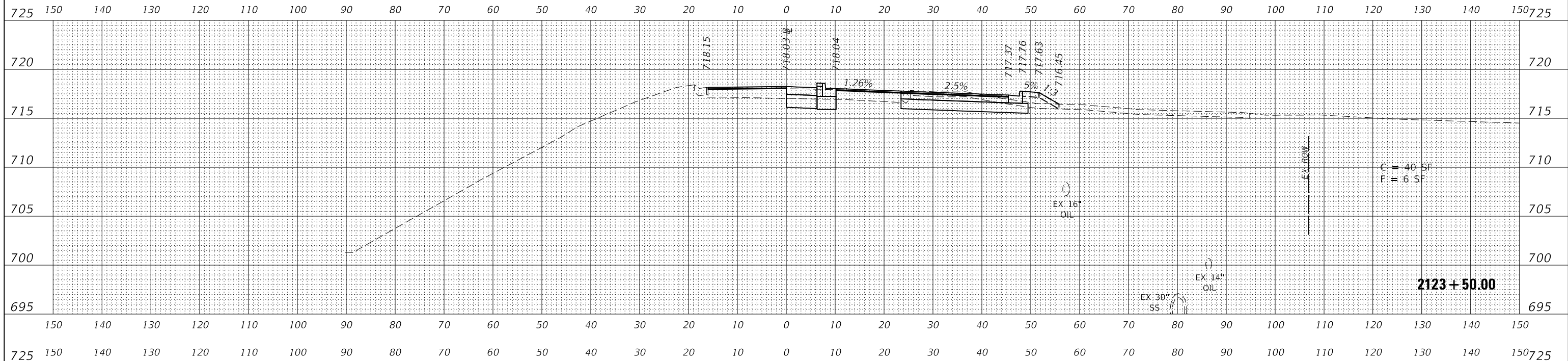
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS-SECTIONS
RAMP B

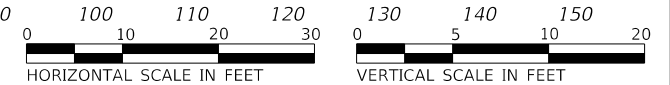
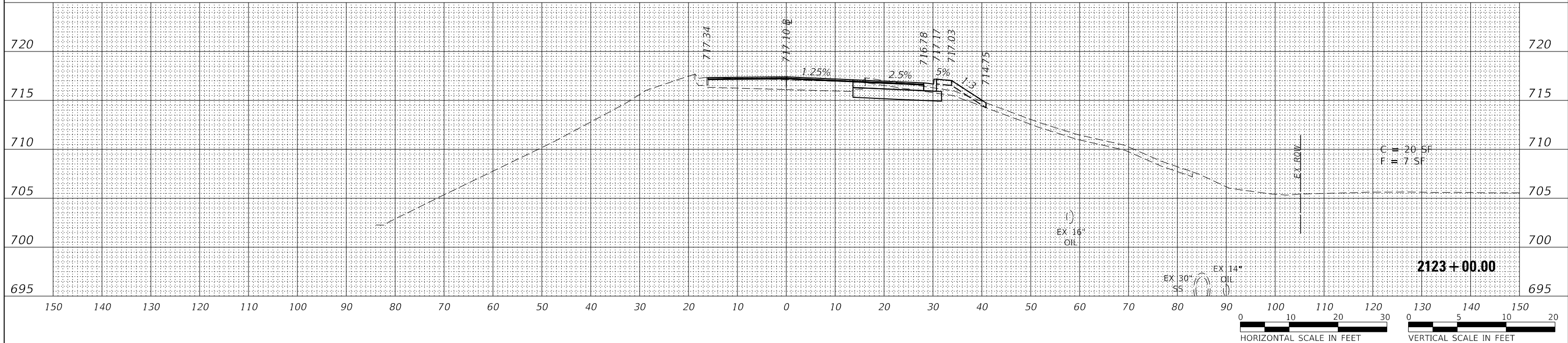
SCALE: SHEET 4 OF 6 SHEETS STA. 2122+00.00 TO STA. 2122+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	292
CONTRACT NO. 61G12				
ILLINOIS FED. AID PROJECT				

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



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



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DESIGNED -	D.M.S.	REVISED -	
DRAWN -	D.M.S.	REVISED -	
CHECKED -	D.J.C.	REVISED -	
DATE -	09-01-2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

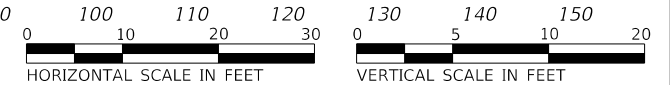
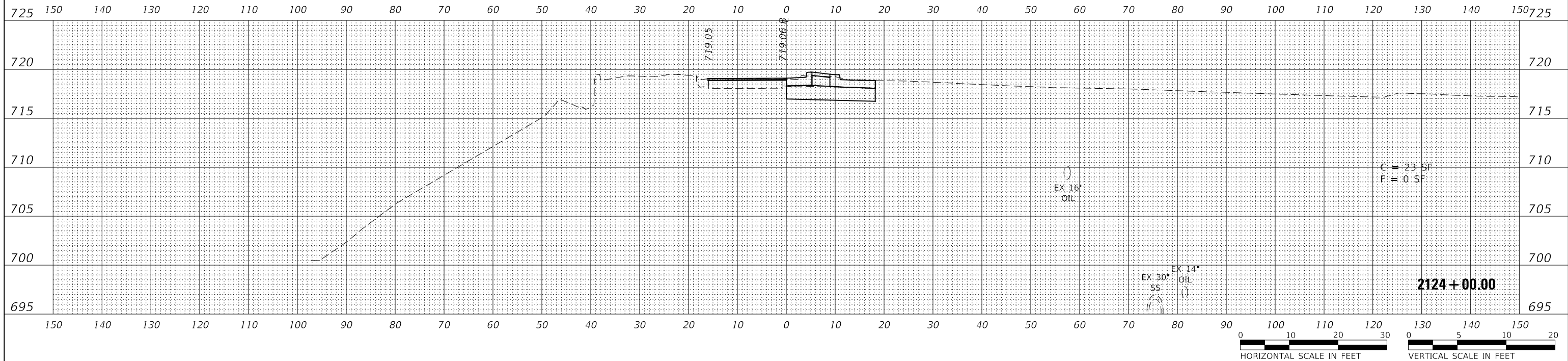
CROSS-SECTIONS
RAMP B

SCALE: SHEET 5 OF 6 SHEETS STA. 2123+00.00 TO STA. 2123+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	293
CONTRACT NO. 61G12				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



DESIGNED -	D.M.S.	REVISED -	
DRAWN -	D.M.S.	REVISED -	
CHECKED -	D.J.C.	REVISED -	
DATE -	09-01-2020	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS-SECTIONS
RAMP B**

SCALE: SHEET 6 OF 6 SHEETS STA. 2124+00.00 TO STA. 2124+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	14-00259-05-CH	DUPAGE	294	294
CONTRACT NO. 61G12				
		ILLINOIS	FED. AID PROJECT	