

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	FY2015 ITS-1	VERMILION	73	1
		ILLINOIS	CONTRACT NO. 70A66	

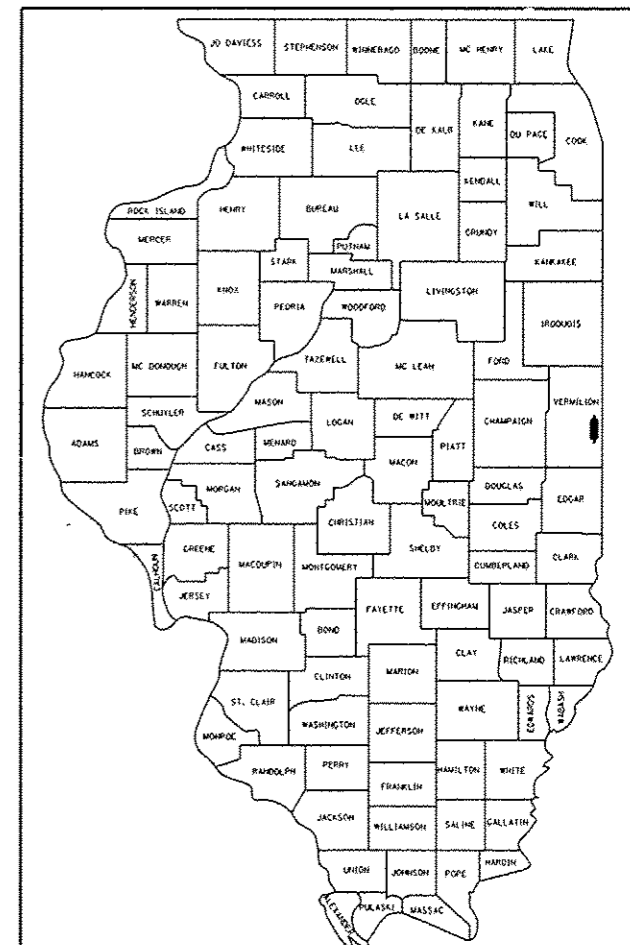
FOR INDEX OF SHEETS, SEE SHEET NO. 2 & 3

**PROPOSED
HIGHWAY PLANS**

**VARIOUS ROUTES
SECTION FY2015 ITS - 1
CHANGEABLE MESSAGE SIGNS SURVEILLANCE
VERMILION COUNTY**

C-95-021-14

D95-021-14

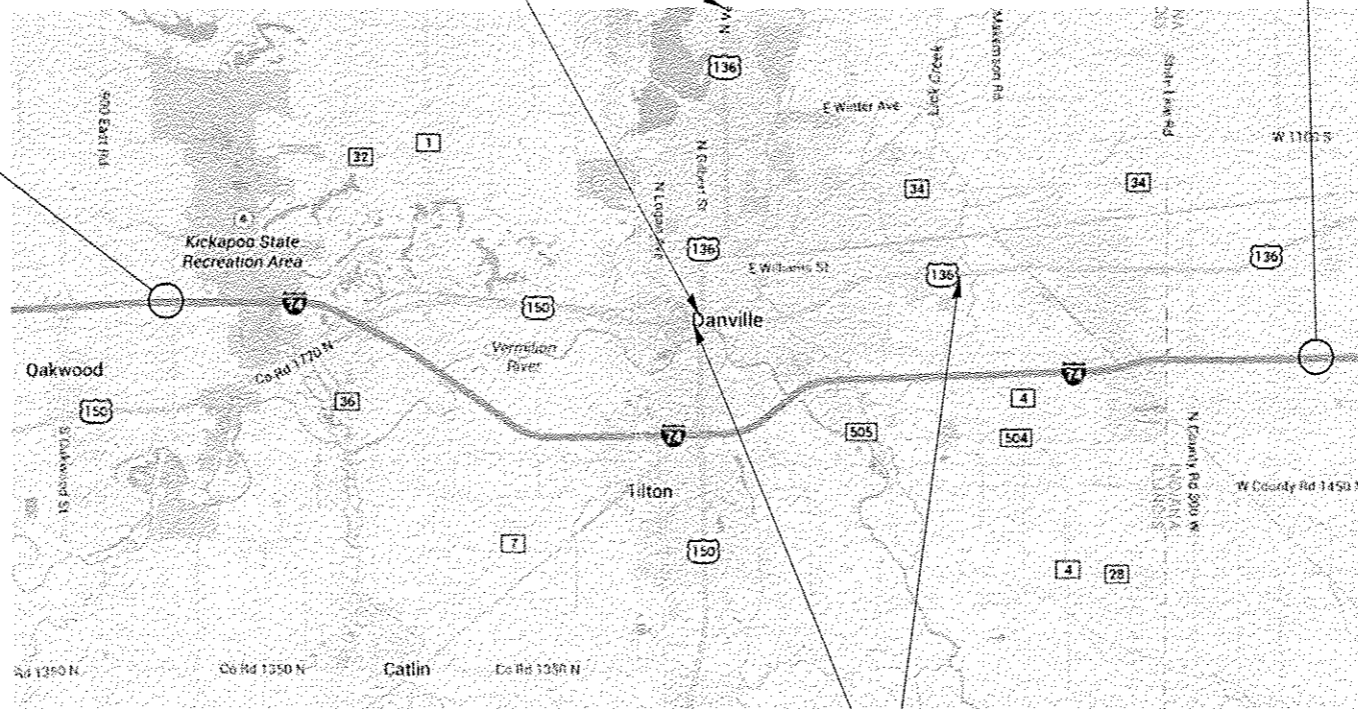


LOCATION OF SECTION INDICATED THUS: — ■ —

IL 1 (GILBERT ST., FAIRCHILD ST. & VERMILION ST.)
MAIN ST. TO NEWELL RD.
ITS FIBER OPTIC & CAMERA INSTALL.

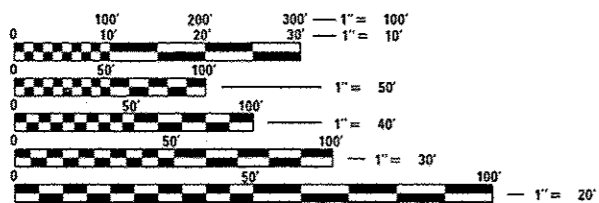
I-74 WESTBOUND
STA. 98+26 MM 221.86
DMS SIGN STRUCTURE
STR. NO. 5 S 092 0174 L221.86

I-74 EASTBOUND
STA. 1574+16 MM 207.63
DMS SIGN STRUCTURE
STR. NO. 5 S 092 0174 R207.63



VERMILION COUNTY

U.S. 150/U.S. 136 (MLK MEM. DR./MAIN ST.)
GILBERT ST. TO IOWA ST.
ITS FIBER OPTIC & CAMERA INSTALL.



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER: JEFF ALLEN
PROJECT MANAGER: ROGER BIGGS

CONTRACT NO. 70A66

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED October 16, 2014

Pamela Sanner
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Jan 30 2015
Don D. Baranzoli, P.E.
ENGINEER OF DESIGN AND ENVIRONMENT

Jan 30 2015
Chris Osman, P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

GENERAL NOTES

- G.N. - 100 ENGLISH UNITS OF MEASUREMENT SHALL GOVERN OVER AND SUPERSEDE ANY METRIC UNITS SHOWN IN THIS CONTRACT. WHERE INCLUDED, METRIC UNITS ARE FOR INFORMATION ONLY.
- G.N.-100A ELECTRONIC FILES AND/OR ELECTRONIC SURVEY INFORMATION INCLUDING CADD FILES WILL NOT BE AVAILABLE TO THE CONTRACTOR.
- G.N.- 814 THE PROPOSED HANDHOLE LOCATIONS SHALL BE LOCATED BY THE ENGINEER.

HIGHWAY STANDARDS

Standard	Description
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	STEEL PLATE BEAM GUARDRAIL
630001-10	STEEL PLATE BEAM GUARDRAIL
630301-06	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631011-09	TRAFFIC BARRIER TERMINAL, TYPE 2
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600mm) FROM PAVEMENT EDGE
701101-04	OFF-RD OPERATIONS, MULTILANE, 15'(4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY
701400-08	APPROACH TO LANE CLOSURE, FREEWAY / EXPRESSWAY
701401-09	LANE CLOSURE, FREEWAY / EXPRESSWAY
701428	TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/EXPRESSWAY
701602-07	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701701-09	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-04	TRAFFIC CONTROL DEVICES
805001-01	ELECTRIC SERVICE INSTALLATION DETAILS
814001-03	HANDHOLES

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- 40-47 FIBER OPTIC CONDUIT & CABLE LAYOUT / CAMERA INSTALLATIONS / SIGNAL CABINET MODIFICATIONS IL. 1 (VERMILION ST.) FAIRCHILD ST. TO WINTER AVE.
- 47-56 FIBER OPTIC CONDUIT & CABLE LAYOUT / CAMERA INSTALLATIONS / SIGNAL CABINET MODIFICATIONS IL. 1 (VERMILION ST.) - WINTER AVE. TO BOILING SPRINGS RD.
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- 62-66 FIBER OPTIC CONDUIT & CABLE LAYOUT / CAMERA INSTALLATIONS / SIGNAL CABINET MODIFICATIONS U.S. 136 (MAIN ST.) - GILBERT AVE. TO BOWMAN AVE.
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FILE NAME :	USER NAME : biggsrd	DESIGNED - RDB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIBER OPTIC CONDUIT AND CABLE LAYOUT			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
g:\p\work\p\p\dot\biggsrd\08485929\PT2	Camera and Fiber Optic working file.dgn	DRAWN - RDB	REVISED -					VAR.	FY2015 ITS-1	VERMILION		2
MODEL NAME :	PLDT SCALE : 1574.8031 / m	CHECKED -	REVISED -		SCALE: 20	SHEET	OF	SHEETS	STA.	TO STA.	CONTRACT NO. 70A66	
	PLDT DATE : 2/3/2015	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

SUMMARY OF QUANTITIES

LOCATION OF WORK:

VERMILION
VARIOUS
ROUTES
DANVILLE
100% STATE

VERMILION
VARIOUS
ROUTES
DANVILLE
100% STATE

CONSTRUCTION TYPE CODE:

0021

0021

CODE NO	ITEM	UNIT	TOTAL QUANTITY	URBAN QUANTITY	RURAL QUANTITY
20200100	EARTH EXCAVATION	CU YD	61.0		61.0
20400800	FURNISHED EXCAVATION	CU YD	220.0		220.0
25000210	SEEDING CLASS 2A	ACRE	0.43		0.43
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	38.7		38.7
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	38.7		38.7
25000800	POTASSIUM FERTILIZER NUTRIENT	POUND	38.7		38.7
25100115	MULCH METHOD 2	ACRE	0.43		0.43
28000305	TEMPORARY DITCH CHECKS	FOOT	140.0		140.0
28000500	INLET AND PIPE PROTECTION	EACH	3.0		3.0
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	810.0	810.0	
44000600	SIDEWALK REMOVAL	SQ FT	1000.0	1000.0	
48101500	AGGREGATE SHOULDERS TYPE B 6"	SQ YD	384.0		384.0
* 63000001	STEEL PLATE BEAM GUARDRAIL TYPE A 6 FOOT POSTS	FOOT	737.5		737.5
* 63100045	TRAFFIC BARRIER TERMINAL TYPE 2	EACH	3.0		3.0

* SPECIALTY ITEM

FILE NAME *	USER NAME * ppersonbr	DESIGNED - RDB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIBER OPTIC CONDUIT AND CABLE LAYOUT	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\p\work\newdot\personbr\02405929\PT	concrete and Fiber Optic working file.dgn	DRAWN - RDB	REVISED -			VAR.	FY2015 ITS-1	VERMILION	73	3
#MODELNAME*	PLOT SCALE * 40.0000 1/4 in.	CHECKED -	REVISED -		SCALE: 20					
	PLOT DATE * 10/17/2014	DATE -	REVISED -		SHEET OF SHEETS	STA.	TO STA.			CONTRACT NO. 70A66
										ILLINOIS FED. AID PROJECT

SUMMARY OF QUANTITIES

LOCATION OF WORK:

VERMILION
VARIOUS
ROUTES
DANVILLE
100% STATE

VERMILION
VARIOUS
ROUTES
DANVILLE
100% STATE

CONSTRUCTION TYPE CODE:

0021

0021

CODE NO	ITEM	UNIT	TOTAL QUANTITY	URBAN QUANTITY	RURAL QUANTITY
* 63100167	TRAFFIC BARRIER TERMINAL TYPE 1(SPECIAL) TANGENT	EACH	3.0		3.0
64300450	IMPACT ATTENUATORS (NON-REDIRECTIVE) TEST LEVEL 3	EACH	2.0		2.0
64301090	ATTENUATOR BASE	SQ YD	102.0		102.0
67100100	MOBILIZATION	L SUM	1.0	.5	.5
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1.0		1.0
70102632	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602	L SUM	1.0	1.0	
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1.0	1.0	
70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1.0		1.0
73300300	OVERHEAD SIGN STRUCTURE - SPAN, TYPE III-A (5'-0" X 7'-0")	FOOT	174.0		174.0
73301810	OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	FOOT	40.0		40.0
73400200	DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	54.1		54.1
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	14.0		14.0
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	3.0		3.0
80500100	SERVICE INSTALLATION, TYPE A	EACH	2.0		2.0

* SPECIALTY ITEM

FILE NAME *	USER NAME = ppersonbr	DESIGNED - RDB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIBER OPTIC CONDUIT AND CABLE LAYOUT	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pwork\pawdat\personbr\02405121\PT	camara and Fiber Optic working file.dgn	DRAWN - RDB	REVISED -			VAR.	FY2015 ITS-1	VERMILION	73	4	
	PLOT SCALE = 40,0000 1/2 in.	CHECKED -	REVISED -			SCALE: 20		SHEET OF SHEETS		STA. TO STA.	
#MODELNAME*	PLOT DATE = 10/17/2014	DATE -	REVISED -			CONTRACT NO. 70A66 ILLINOIS FED. AID PROJECT					

SUMMARY OF QUANTITIES

LOCATION OF WORK:

VERMILION
VARIOUS
ROUTES
DANVILLE
100% STATE

VERMILION
VARIOUS
ROUTES
DANVILLE
100% STATE

CONSTRUCTION TYPE CODE:

0021

0021

CODE NO	ITEM	UNIT	TOTAL QUANTITY	URBAN QUANTITY	RURAL QUANTITY
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	29,948.0	29,817.0	131.0
81400100	HANDHOLE	EACH	61.0	61.0	
81500130	GULFBOX JUNCTION REMOVAL	EACH	16.0		16.0
81702120	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8	FOOT	155.0		155.0
85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	6.0	6.0	
85700300	FULL-ACTUATED CONTROLLER AND TYPE V CABINET	EACH	1.0	1.0	
86200200	UNINTERRUPTABLE POWER SUPPLY, STANDARD	EACH	4.0	4.0	
86400100	TRANSCIVER - FIBER OPTIC	EACH	1.0	1.0	
87300901	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 12 1C	FOOT	43,729.0	43,729.0	
87301815	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 3 C	FOOT	183.0		183.0
87900200	DRILL EXISTING HANDHOLE	EACH	26.0	26.0	
89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	20.0	20.0	
89502220	MODIFY EXISTING CONCRETE FOUNDATION	EACH	6.0	6.0	
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	8,707.0	8,707.0	

14
13

SUMMARY OF QUANTITIES

LOCATION OF WORK: VERMILION VARIOUS ROUTES DANVILLE 100% STATE VERMILION VARIOUS ROUTES DANVILLE 100% STATE

CONSTRUCTION TYPE CODE: 0021 0021

CODE NO	ITEM	UNIT	TOTAL QUANTITY	URBAN QUANTITY	RURAL QUANTITY
X0325485	TRUSS MOUNTED LED DYNAMIC MESSAGE SIGN	EACH	2.0		2.0
X0326266	ETHERNET SWITCH	EACH	30.0	30.0	
X0327216	CLOSED CIRCUIT TELEVISION CAMERA	EACH	6.0	6.0	
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	12.0		12.0
X7010410	SPEED DISPLAY TRAILER	CAL MO	0.5		0.5
X8570215	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	24.0	24.0	
X8710036	FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE	FOOT	46,073.0	46,073.0	
X8850105	REMOVE EXISTING TRAFFIC CONTROLLER AND CABINET	EACH	7.0	7.0	
X8850224	RELOCATE CONTROLLER CABINET	EACH	1.0	1.0	
XX005800	RELOCATE EXISTING UPS BATTERY BACK-UP SYSTEM	EACH	1.0	1.0	
Z0010688	CAMERA MOUNTING ASSEMBLY	EACH	4.0	4.0	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1.0		1.0

SCHEDULE OF QUANTITIES

5 S 092 I074 R207.63

OAKWOOD

GUARDRAIL SCHEDULE

LOCATION	STATION	TO	STATION	63000001 STEEL PLATE BEAM GUARDRAIL TYPE A 6 FT POSTS (FOOT)	63100045 TRAFFIC BARRIER TERMINAL TYPE 2 (EACH)	63100167 TRAFFIC BARRIER TERMINAL TYPE 1(SPECIAL) TANGENT (EACH)	78200410 GUARDRAIL MARKER TYPE A (EACH)	78201000 TERMINAL MARKER DIRECT APPLIED (EACH)
E.B.	P.L. SHLDR		1571+09.5			1.0		1.0
E.B.	P.L. SHLDR		1571+59.5	262.5			5.0	
E.B.	P.L. SHLDR		1574+22		1.0			
W.B.	P.L. SHLDR		1573+97.5		1.0			
W.B.	P.L. SHLDR		1574+10	262.5			5.0	
W.B.	P.L. SHLDR		1576+72.5			1.0		1.0
SUB-TOTAL =				525.0	2.0	2.0	10.0	2.0
				FOOT	EACH	EACH	EACH	EACH

SEEDING SCHEDULE

LOCATION	STATION	OFFSET	25000210 SEEDING CLASS 2A (ACRE)	25000400 NITROGEN FERTILIZER NUTRIENT (LB)	25000500 PHOSPHORUS FERTILIZER NUTRIENT (LB)	25000600 POTASSIUM FERTILIZER NUTRIENT (LB)	25100115 MULCH METHOD 2 (ACRE)
E.B.	TRUSS FDN	1574+16		0.01	0.90	0.90	0.01
E.B.	TRUSS FDN	1574+16		0.01	0.90	0.90	0.01
SUB-TOTAL =			0.02	1.80	1.80	1.80	0.02
			ACRE	LB	LB	LB	ACRE

Location No.	5-01		
Structure No.	5 S 092 I074 R207.63		
County / Route	VERMILION CO. - I-74 EB - just west of bridge 092-0125		
Scope of Work	Construction of a new simple span sign truss and dynamic message sign		
CODE NUMBER	PAY ITEM	UNIT	QUANTITY
25000210	SEEDING, CLASS 2A	ACRE	0.02
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	1.80
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	1.80
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	1.80
25100115	MULCH METHOD 2	ACRE	0.02
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	525.00
63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	2.00
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1(SPECIAL) TANGENT	EACH	2.00
67100100	MOBILIZATION	L SUM	0.50
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	0.50
70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	0.50
73300300	OVERHEAD SIGN STRUCTURE - SPAN, TYPE III-A (5'-0" X 7'-0")	FOOT	87.00
73301810	OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	FOOT	20.00
73400200	DRILLED SHAFT CONCRETE FOUNDATIONS	CUYD	24.10
78200410	GUARDRAIL MARKERS, TYPE A	EACH	10.00
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	2.00
80500100	SERVICE INSTALLATION, TYPE A	EACH	1.00
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	57.00
81702120	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8	FOOT	69.00
87301815	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 3 C	FOOT	83.00
X0325485	TRUSS MOUNTED LED DYMANIC MESSAGE SIGN	EACH	1.00
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	6.00
Z0013798	CONSTRUCTION LAYOUT	L SUM	0.50

Note: Due to existing soil conditions, the sign truss contractor is strongly encouraged to utilize a specialty foundation contractor for 73400200 Drilled Shaft Concrete Foundations - Drilled shaft depths were designed and reviewed by the Foundation and Geotechnical Unit and the Bureau of Bridges and Structures.

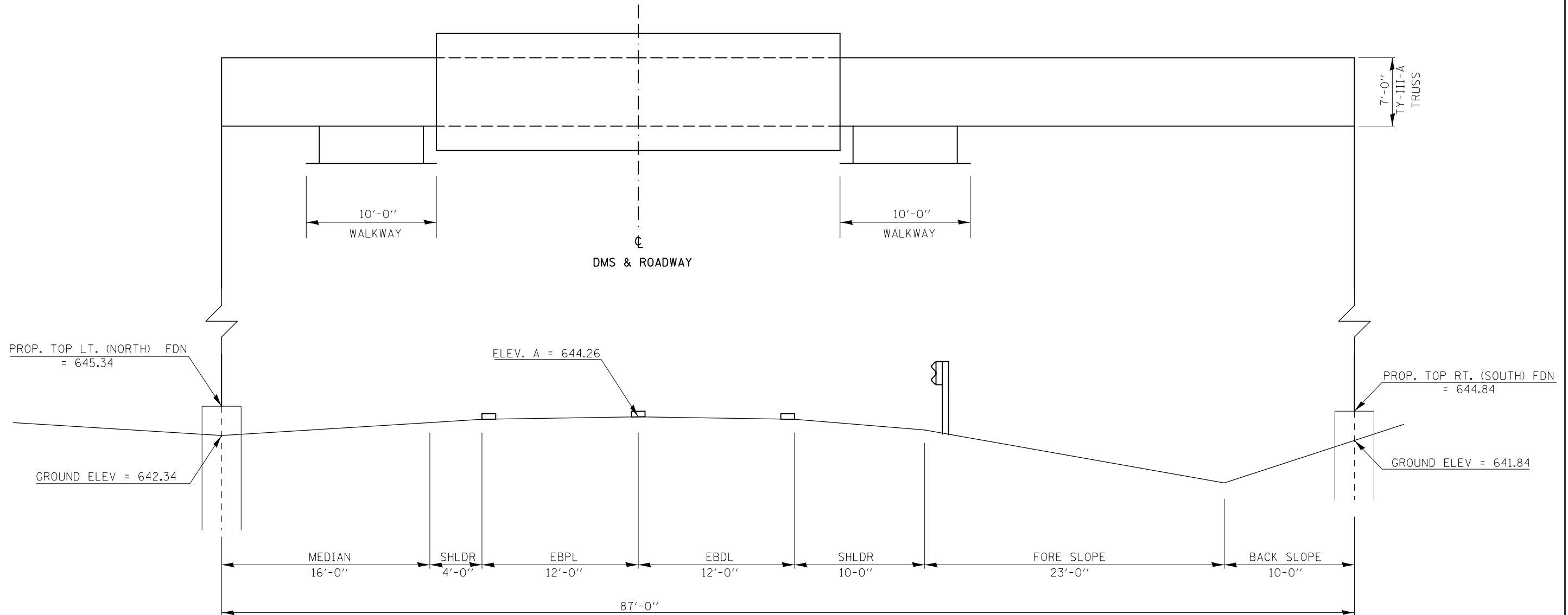
Seeding pay limits around the truss foundations are 15' x 15'

Pay Item for CMS is for the advanced interstate notice only. CMS shown on Standards are included in the cost of the Standard.

SIGN TRUSS MOUNTING DETAIL

5 S 092 I074 R207.63

OAKWOOD



EXACT DIMENSIONS OF DMS CABINET UNKNOWN. DMS CABINET NOT TO EXCEED 31' LONG X 9' TALL X 3' WIDE PER SPL PROV.
 BENCHMARK 4981-1 = CHIS. SQUARE ON SW CORNER OF BARREL PAD WEST SIDE OF BRIDGE 092-0125, STA. 1575+20.06, 11.36' RT., ELEV. = 643.67

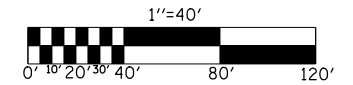
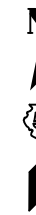
FILE NAME =	USER NAME = ppersonbr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SIGN TRUSS MOUNTING DETAILS OAKWOOD DMS - 5 S 092 I074 R207.63	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ci:\pwork\work\pwork\personbr\d0405941\0570A66-sh-t-Details.dgn	PLOT SCALE = 40.0000' / in.	DRAWN -	REVISED -			74	FY2015 ITS-1	VERMILION	73	8	
\$MODELNAME\$	PLOT DATE = 10/17/2014	CHECKED -	REVISED -			CONTRACT NO. 70A66					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

OVERHEAD SIGN STRUCTURE

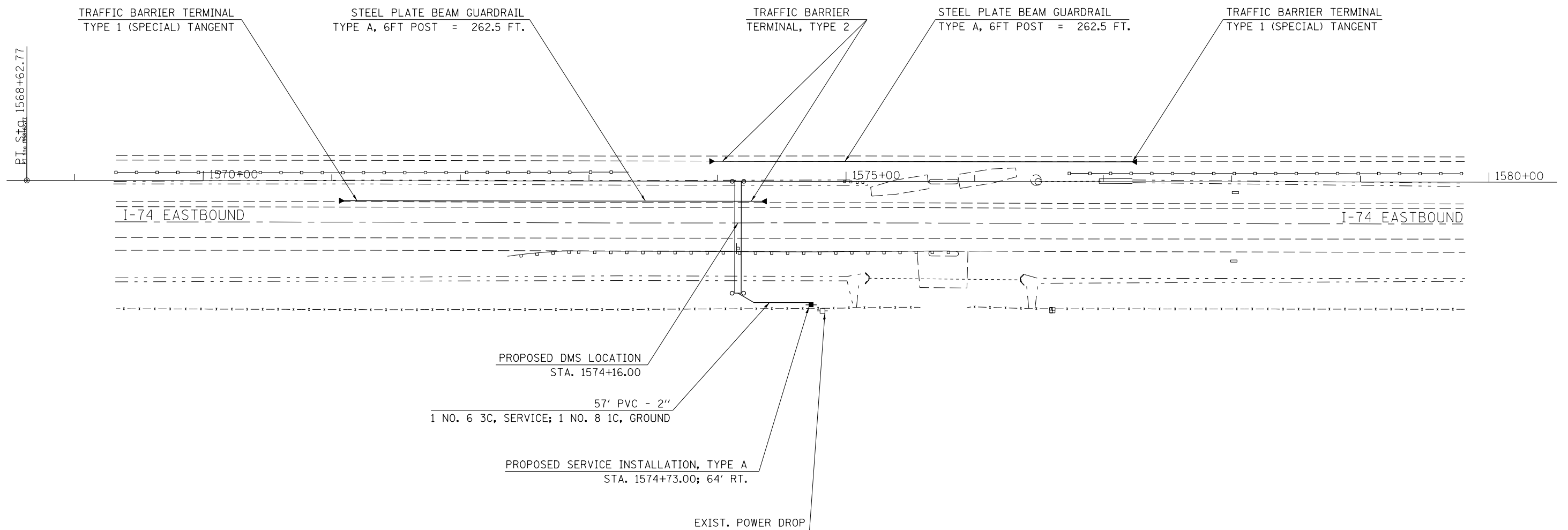
I-74 EB - MM 207.63

STRUCTURE NO.

5 S 092 1074 R207.63



SITE PLAN - OAKWOOD



FILE NAME =	USER NAME = ppersonbr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN OAKWOOD DMS - 5 S 092 1074 R207.63	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
et:\pwork\work\pidot\ppersonbr\d0405929\0570A66-sh1-Plan.dgn	PLOT SCALE = 80.0000' / in.	DRAWN -	REVISED -			74	FY2015 ITS-1	VERMILION	73	9	
\$MODELNAME\$	PLOT DATE = 10/17/2014	CHECKED -	REVISED -			CONTRACT NO. 70A66					
		DATE -	REVISED -			SCALE:	SHEET	OF	SHEETS	STA. P.	TO STA. P.

SCHEDULE OF QUANTITIES

5 S 092 1074 L221.86

INDIANA

Location No.	5-02		
Structure No.	5 S 092 1074 L221.86		
County / Route	VERMILLION CO. INDIANA - I-74 WB - 1.86 mi. into Indiana		
Scope of Work	Construction of a new simple span sign truss and dynamic message sign		
CODE NUMBER	PAY ITEM	UNIT	QUANTITY
20200100	EARTH EXCAVATION	CUYD	61.00
20400800	FURNISHED EXCAVATION	CUYD	220.00
25000210	SEEDING, CLASS 2A	ACRE	0.41
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	36.90
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	36.90
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	36.90
25100115	MULCH METHOD 2	ACRE	0.41
28000305	TEMPORARY DITCH CHECKS	FOOT	140.00
28000500	INLET AND PIPE PROTECTION	EACH	3.00
48101500	AGGREGATE SHOULDER, TYPE B 6"	SQYD	384.00
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	212.50
63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1.00
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	1.00
64300450	IMPACT ATTENUATORS (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2.00
64301090	ATTENUATOR BASE	SQYD	102.00
67100100	MOBILIZATION	L SUM	0.50
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	0.50
70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	0.50
73300300	OVERHEAD SIGN STRUCTURE - SPAN, TYPE III-A (5'-0" X 7'-0")	FOOT	87.00
73301810	OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	FOOT	20.00
73400200	DRILLED SHAFT CONCRETE FOUNDATIONS	CUYD	30.00
78200410	GUARDRAIL MARKERS, TYPE A	EACH	4.00
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	1.00
80500100	SERVICE INSTALLATION, TYPE A	EACH	1.00
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	74.00
81702120	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8	FOOT	86.00
87301815	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 3 C	FOOT	100.00
X0325485	TRUSS MOUNTED LED DYMANIC MESSAGE SIGN	EACH	1.00
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	6.00
Z0013798	CONSTRUCTION LAYOUT	L SUM	0.50

Note: Due to existing soil conditions, the sign truss contractor is strongly encouraged to utilize a specialty foundation contractor for 73400200 Drilled Shaft Concrete Foundations - Drilled shaft depths were designed and reviewed by the Foundation and Geotechnical Unit and the Bureau of Bridges and Structures.

Earth Excavation was calculated for the const of the Aggregate Shoulders. This work shall be completed after the Furnished Excavation and the Earth Excavation shall be disposed of per Art. 202.03

Pay Item for CMS is for the advanced interstate notice only. CMS shown on Standards are included in the cost of the Standard.

GUARDRAIL SCHEDULE

LOCATION	STATION	TO	STATION	63000001 STEEL PLATE BEAM GUARDRAIL TYPE A 6 FT POSTS (FOOT)	63100045 TRAFFIC BARRIER TERMINAL TYPE 2 (EACH)	63100167 TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) TANGENT (EACH)	78200410 GUARDRAIL MARKER TYPE A (EACH)	78201000 TERMINAL MARKER DIRECT APPLIED (EACH)
W.B.	D.L. SHLDR	98+07.5	98+20		1.0			
W.B.	D.L. SHLDR	98+20	100+32.5	212.5			4.0	
W.B.	D.L. SHLDR	100+32.5	100+82.5			1.0		1.0
SUB-TOTAL =				212.5 FOOT	1.0 EACH	1.0 EACH	4.0 EACH	1.0 EACH

IMPACT ATTENUATOR SCHEDULE

LOCATION	STATION	TO	STATION	64300450 IMPACT ATTENUATORS NON- REDIRECTIVE TEST LEVEL 3 (EACH)	64301090 ATTENUATOR BASE (SQYD)
E.B.	MEDIAN	97+75	98+20	1.0	51.0
W.B.	MEDIAN	98+32	98+77	1.0	51.0
SUB-TOTAL =				2.0 EACH	102.0 SQYD

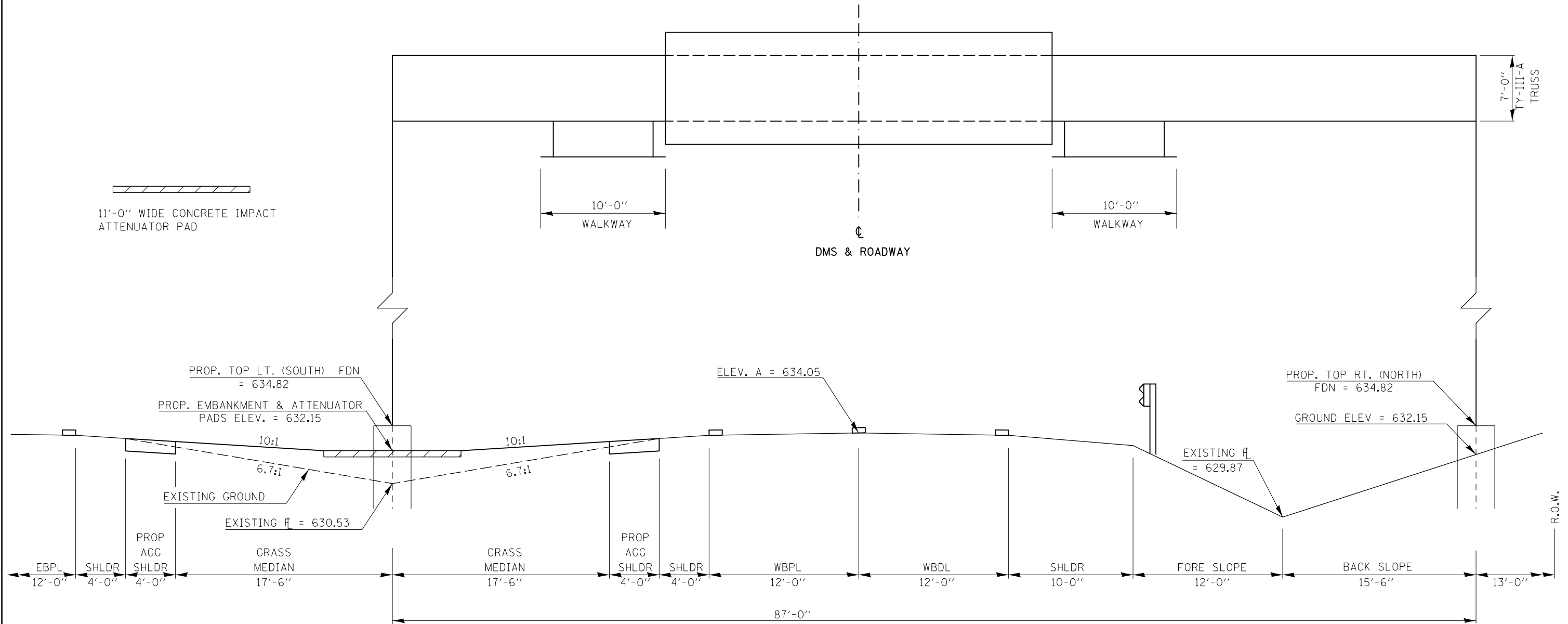
EARTHWORK & SEEDING SCHEDULE

LOCATION	STATION	TO	STATION	20400800 FURNISHED EXCAVATION (CUYD)	25000210 SEEDING CLASS 2A (ACRE)	25000400 NITROGEN FERTILIZER NUTRIENT (LB)	25000500 PHOSPHORUS FERTILIZER NUTRIENT (LB)	25000600 POTASSIUM FERTILIZER NUTRIENT (LB)	25100115 MULCH METHOD 2 (ACRE)
W.B.	TRUSS FDN	98+26	87' o/s	0.0	0.01	0.90	0.90	0.90	0.01
W.B.	D.L. SHLDR	100+32.5	101+16.5	8.0	0.05	4.50	4.50	4.50	0.05
	MEDIAN	96+20	100+52	212.0	0.35	31.50	31.50	31.50	0.35
SUB-TOTAL =				220.0 CUYD	0.41 ACRE	36.90 LB	36.90 LB	36.90 LB	0.41 ACRE

SIGN TRUSS MOUNTING DETAIL

5 S 092 1074 L221.86

INDIANA



EXACT DIMENSIONS OF DMS CABINET UNKNOWN. DMS CABINET NOT TO EXCEED 31' LONG X 9' TALL X 3' WIDE PER SPL PROV.
 BENCHMARK 4981-2 = CHIS. SQUARE ON NW CORNER OF DROP BOX, STA. 96+09.32, 1.44' LT., ELEV. = 631.19

FILE NAME =	USER NAME = ppersonbr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SIGN TRUSS MOUNTING DETAILS INDIANA DMS - 5 S 092 1074 L221.86	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ci:\pwork\work\pwork\personbr\d0405941\0570A66-sh-t-Details.dgn		DRAWN -	REVISED -			74	FY2015 ITS-1	VERMILION	73	11	
\$MODELNAME\$	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -			CONTRACT NO. 70A66					
	PLOT DATE = 10/17/2014	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

OVERHEAD SIGN STRUCTURE

I-74 WB - MM 221.86

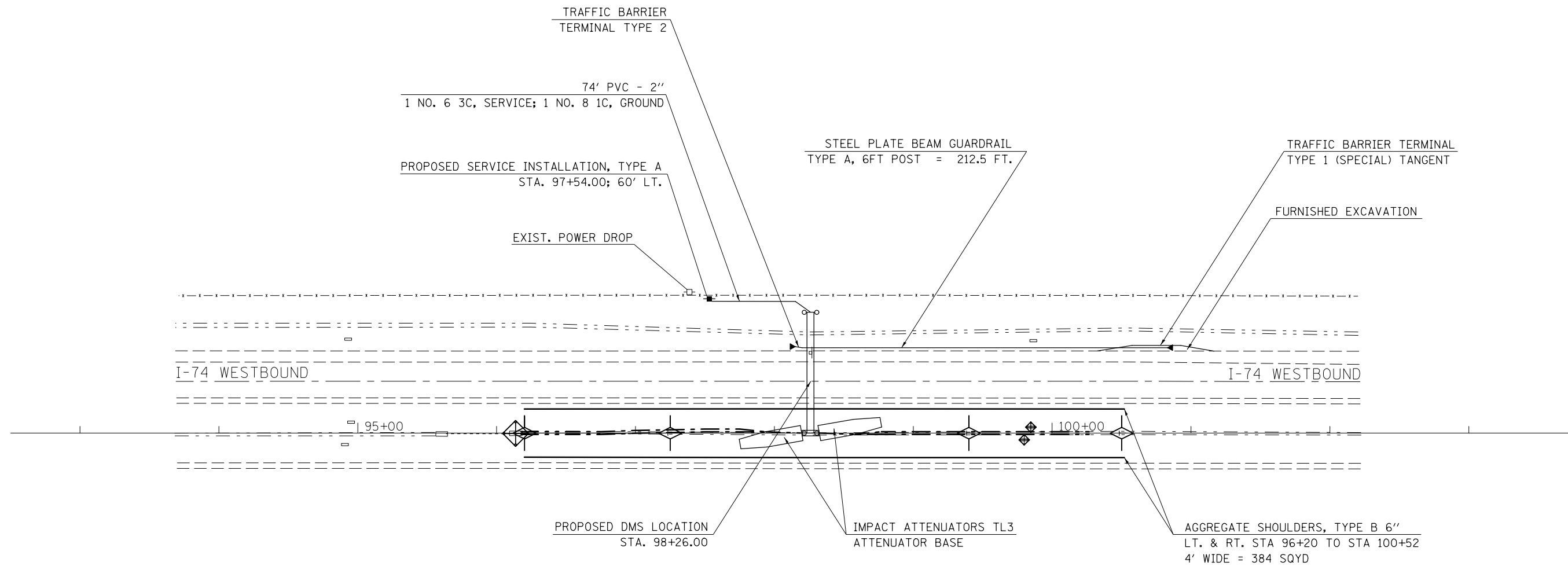
STRUCTURE NO.

5 S 092 1074 L221.86

1"=40'



SITE PLAN - INDIANA



FILE NAME =	USER NAME = ppersonbr	DESIGNED -	REVISED -
ct:\pwork\work\pwork\personbr\d0405929\0570A66-sh1-Plan.dgn		DRAWN -	REVISED -
	PLOT SCALE = 80.0000' / in.	CHECKED -	REVISED -
\$MODELNAME\$	PLOT DATE = 10/17/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

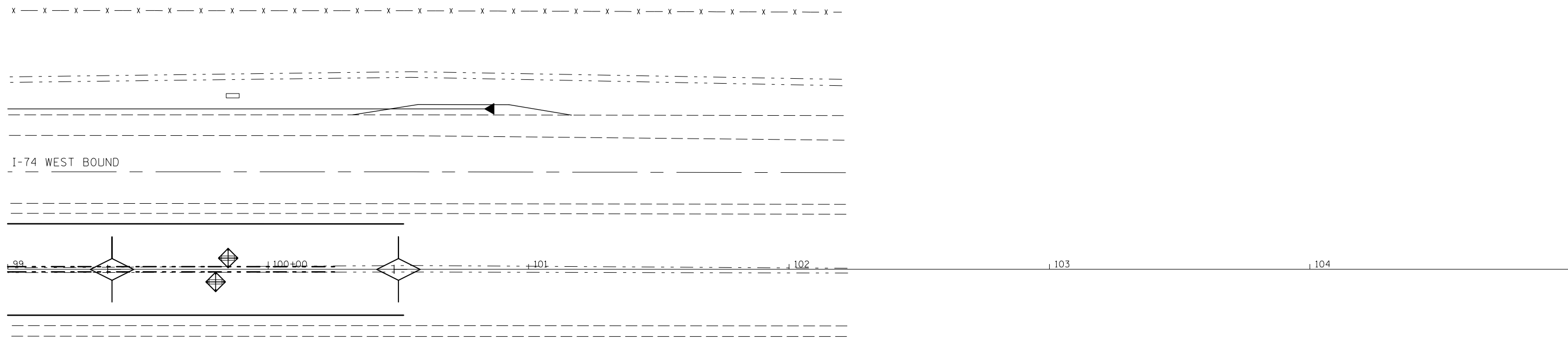
**PLAN
INDIANA DMS - 5 S 092 1074 L221.86**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	FY2015-ITS-1	VERMILION	73	12
CONTRACT NO. 70A66			ILLINOIS FED. AID PROJECT	



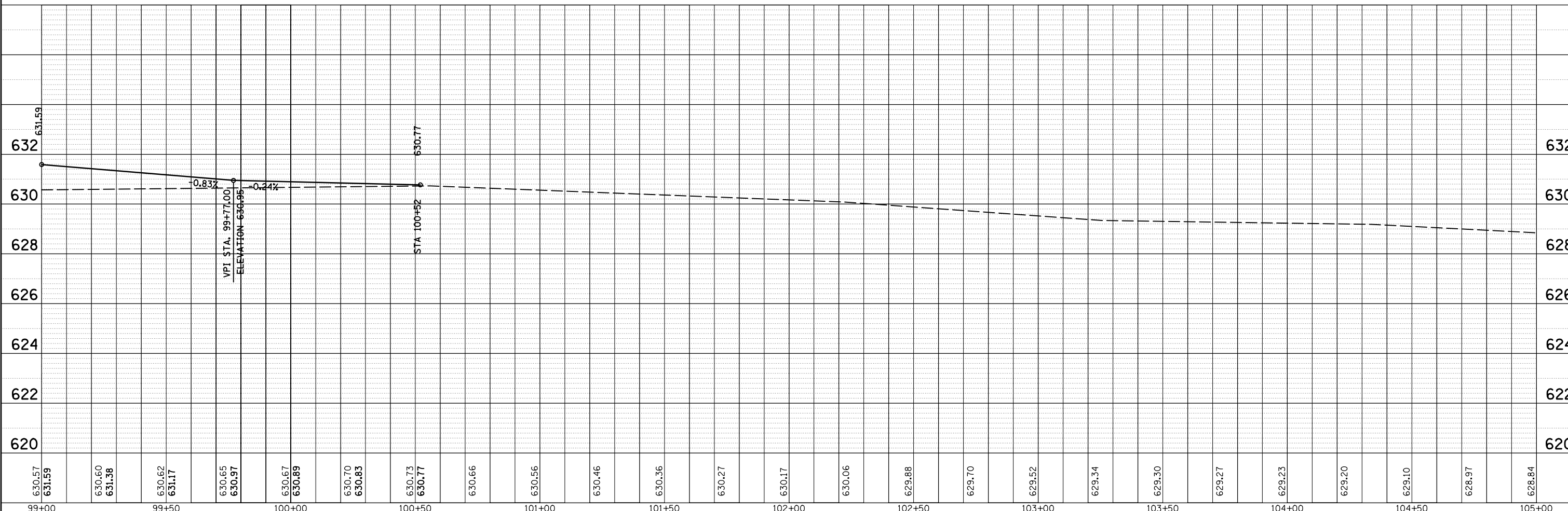
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	PLOTTED		
	ALIGNED		
	CHECKED		
	FILED		
NOTE BOOK NO.	CADD FILE NAME		



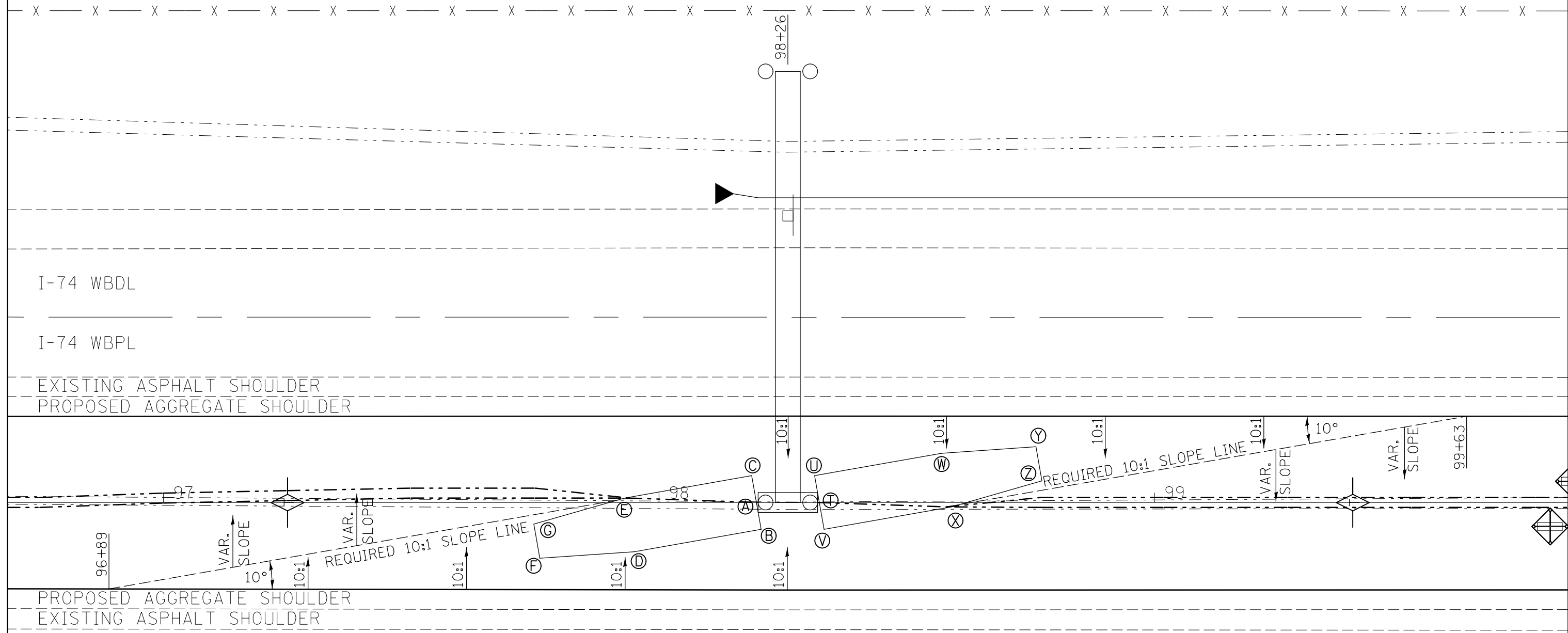
INLET AND PIPE PROTECTION
 99+80 - 1 EACH
 99+84 - 1 EACH

TEMPORARY DITCH CHECKS
 99+40 - 35.0 FOOT
 100+52 - 35.0 FOOT

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
NOTE BOOK NO.			



FILE NAME =	USER NAME = ppersonbr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN & PROFILE - MEDIAN DITCH INDIANA DMS - 5 S 092 1074 L221.86	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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\$MODELNAME\$	PLOT DATE = 10/17/2014	CHECKED -	REVISED -			CONTRACT NO. 70A66					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					



Attenuator Pad Layout Points

Point	Station	Offset	Elevation
A	98+20	0.0	632.15
B	98+21	+5.5 RT.	632.39
C	98+19	-5.5 LT.	632.31
D	97+95	+10.1 RT	632.88
E	97+93	-0.9 LT.	631.79
F	97+75.6	+11.4 RT.	633.01
G	97+74.4	+4.4 RT.	632.31

Point	Station	Offset	Elevation
T	98+32	0.0	632.15
U	98+31	-5.5 LT.	632.29
V	98+33	+5.5 RT.	632.38
W	98+57	-10.1 LT	632.82
X	98+59	+0.9 RT.	631.94
Y	98+76.4	-11.4 LT.	632.78
Z	98+77.6	-4.4 LT.	632.11

FILE NAME =	USER NAME = ppersonbr	DESIGNED -	REVISED -
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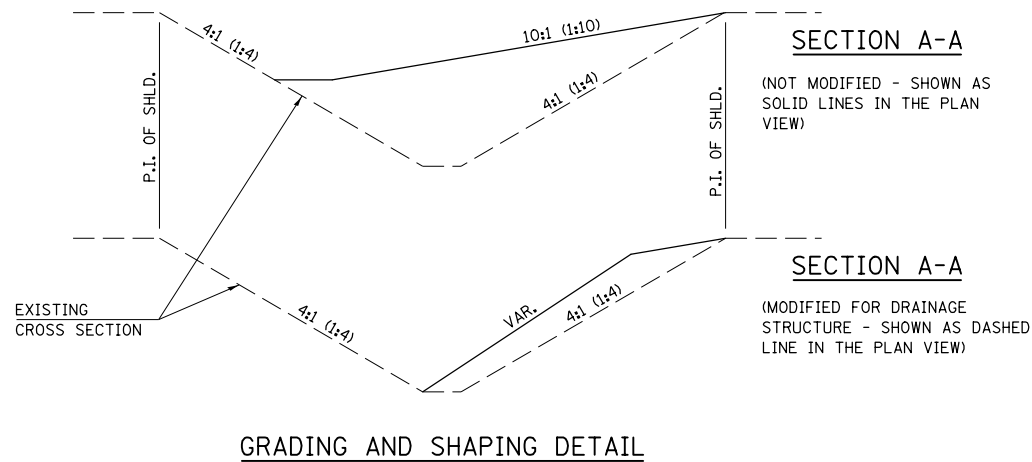
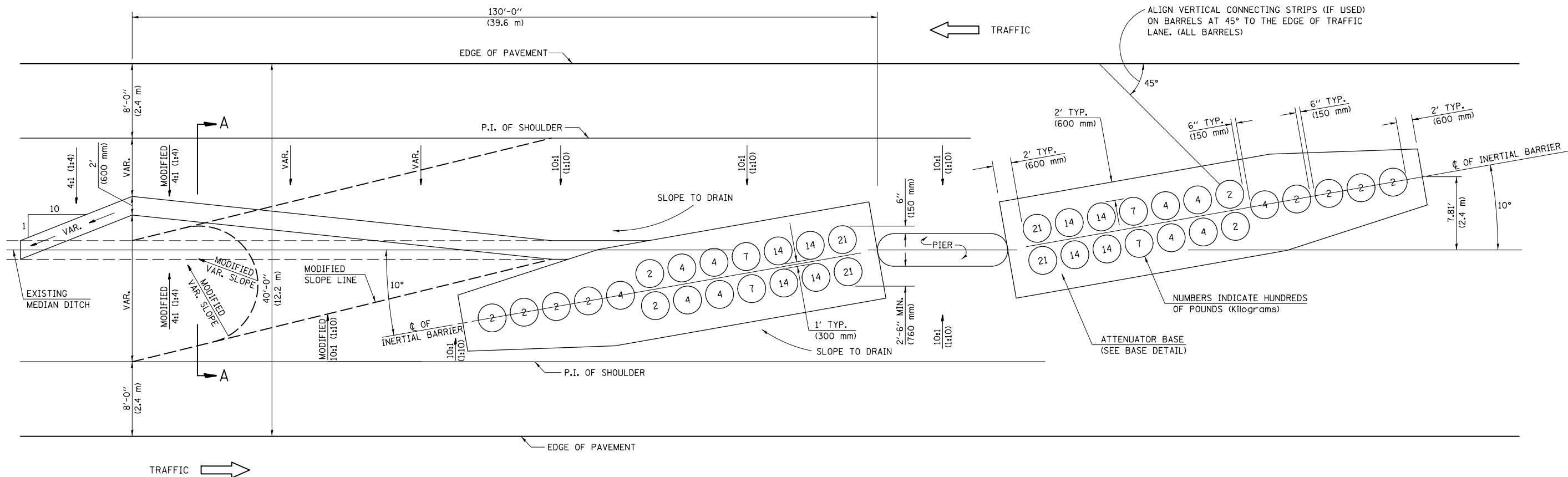
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ATTENUATOR PAD LAYOUT & SLOPE DETAILS
INDIANA DMS - 5 S 092 1074 L221.86

SCALE: SHEET OF SHEETS STA. TO STA.

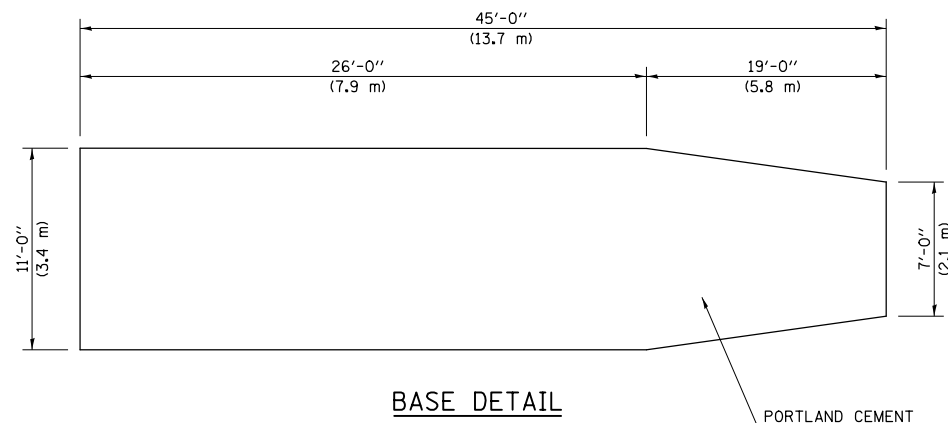
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	FY2015 ITS-1	VERMILION	73	15
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70A66	

70 MPH (110 km/h) DESIGN - 51' (15.5 m) MEDIAN



GENERAL NOTES

1. ALL 10:1 (1:10) SLOPES SHOWN ON THIS DETAIL SHALL BE CONSTRUCTED 10:1 (1:10) OR FLATTER.
2. ANY EXISTING DRAINAGE STRUCTURES LOCATED WITHIN THE 80' (24.4 m) WORKING AREA SHALL BE MODIFIED OR LEFT IN PLACE AS SHOWN ON THE PLANS. WHERE THE EXISTING DRAINAGE STRUCTURES ARE TO REMAIN IN PLACE, THE SLOPES ARE TO BE CONSTRUCTED AS SHOWN AS MODIFIED SLOPES ON THIS DETAIL AND AS DIRECTED BY THE ENGINEER.
3. THE SLOPES AS SHOWN ON THIS DETAIL SHALL APPLY TO BOTH ENDS OF THE BRIDGE PIERS.
4. THE LENGTH X WIDTH OF MODULE LAYOUT IS 41.0' x 7.0' = 19 MODULES - 14,400 LBS. (12.5 m x 2.1 m = 19 MODULES - 6532 kg).



Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

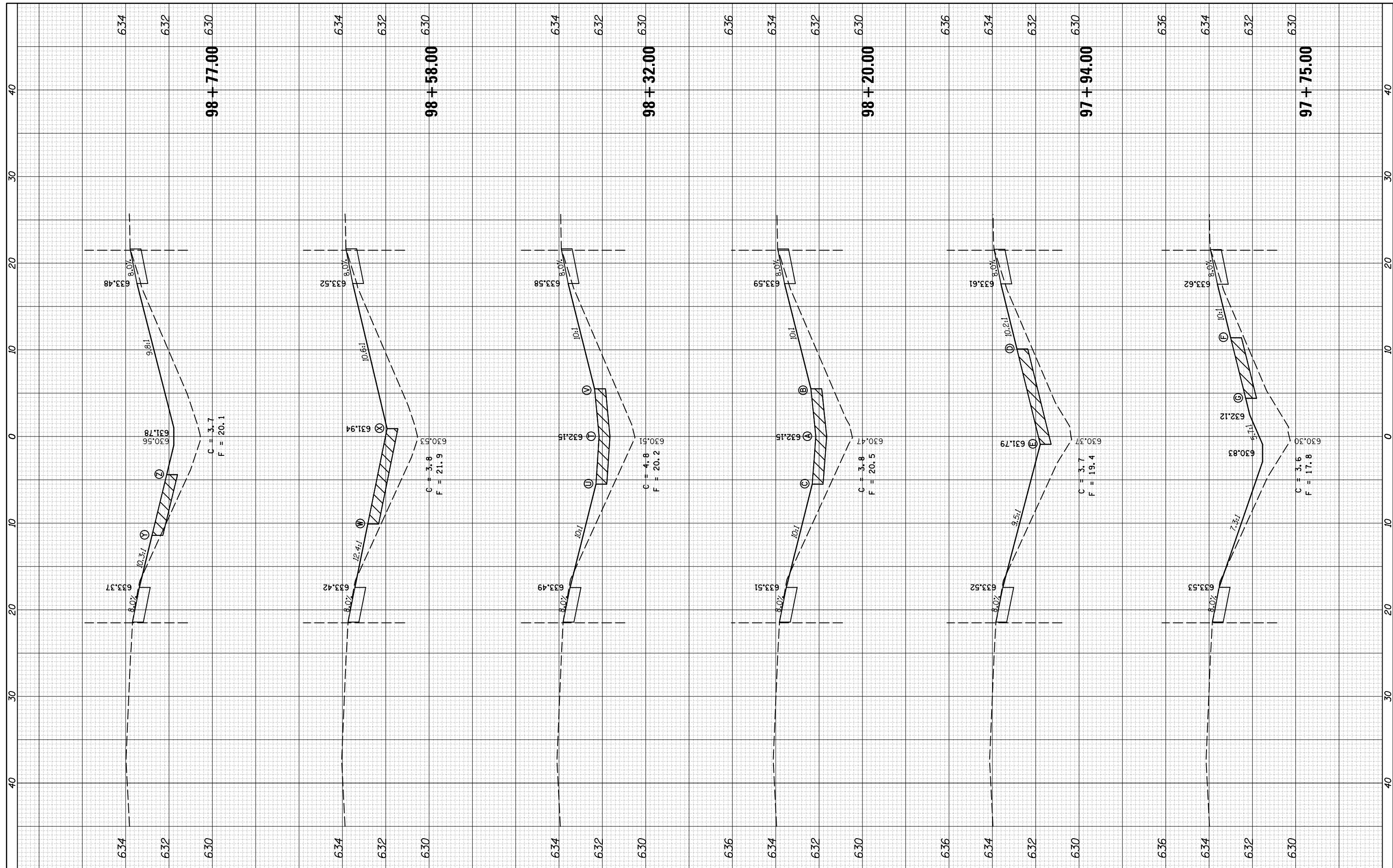
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ei:\pwork\pwork\pwork\personbr\d0405941\050A66-sh1-Detail.dgn	PLOT SCALE = 40.0000' / in.	DRAWN -	REVISED -			74	FY2015 ITS-1	VERMILION	73	16	
\$MODELNAME\$	PLOT DATE = 10/17/2014	CHECKED -	REVISED -			CONTRACT NO. 70A66					
		DATE -	REVISED -			SCALE:	SHEET	OF	SHEETS	STA.	TO

PROPOSED MEDIAN GRADES

Station	Proposed 4' Agg Shldr LT.		Breakover Point when 10:1 Slope is required		Left Side of Ditch Bottom		Centerline of Ditch Flowline		Right Side of Ditch Bottom		Breakover Point when 10:1 Slope is required		Proposed 4' Agg Shldr RT.	
	Offset	Elev.	Offset	Elev.	Offset	Elev.	Offset	Elev.	Offset	Elev.	Offset	Elev.	Offset	Elev.
96+20	-17.50 LT.	633.60			-1.00 LT.	629.38	0.00	629.38	+1.00 RT.	629.38			+17.50 RT.	633.70
96+50	-17.50 LT.	633.59			-1.00 LT.	629.80	0.00	629.80	+1.00 RT.	629.80			+17.50 RT.	633.69
96+75	-17.50 LT.	633.57			-1.00 LT.	630.14	0.00	630.14	+1.00 RT.	630.14			+17.50 RT.	633.67
97+00	-17.50 LT.	633.56			-1.90 LT.	630.49	-0.90 LT.	630.49	+0.10 RT.	630.49	+15.69 RT.	633.48	+17.50 RT.	633.66
97+25	-17.50 LT.	633.55			-2.40 LT.	630.83	-1.40 LT.	630.83	-0.40 LT.	630.83	+11.28 RT.	633.02	+17.50 RT.	633.64
97+50	-17.50 LT.	633.54			-2.90 LT.	631.18	-1.90 LT.	631.18	-0.90 LT.	631.18	+6.88 RT.	632.57	+17.50 RT.	633.63
97+75	-17.50 LT.	633.53			-2.90 LT.	631.53	-1.90 LT.	631.53	-0.90 LT.	631.53	+2.47 RT.	632.12	+17.50 RT.	633.62
97+94	-17.50 LT.	633.52					-0.90 LT.	631.79					+17.50 RT.	633.61
98+20	-17.50 LT.	633.51	-5.50 LT.	632.31			0.00	632.15			+5.50 RT.	632.39	+17.50 RT.	633.59
98+32	-17.50 LT.	633.49	-5.50 LT.	632.29			0.00	632.15			+5.50 RT.	632.38	+17.50 RT.	633.58
98+58	-17.50 LT.	633.42					0.90 RT.	631.94					+17.50 RT.	633.52
98+77	-17.50 LT.	633.37			-1.00 LT.	631.78	0.00	631.78	+1.00 RT.	631.78			+17.50 RT.	633.48
99+02	-17.50 LT.	633.30	-6.88 LT.	632.24	-1.00 LT.	631.57	0.00	631.57	+1.00 RT.	631.57			+17.50 RT.	633.42
99+27	-17.50 LT.	633.23	-11.28 LT.	632.61	-1.00 LT.	631.36	0.00	631.36	+1.00 RT.	631.36			+17.50 RT.	633.37
99+52	-17.50 LT.	633.16	-15.69 LT.	632.98	-1.00 LT.	631.16	0.00	631.16	+1.00 RT.	631.16			+17.50 RT.	633.31
99+77	-17.50 LT.	633.09			-1.00 LT.	630.95	0.00	630.95	+1.00 RT.	630.95			+17.50 RT.	633.26
100+02	-17.50 LT.	633.02			-1.00 LT.	630.89	0.00	630.89	+1.00 RT.	630.89			+17.50 RT.	633.20
100+27	-17.50 LT.	632.95			-1.00 LT.	630.83	0.00	630.83	+1.00 RT.	630.83			+17.50 RT.	633.15
100+52	-17.50 LT.	632.89			-1.00 LT.	630.77	0.00	630.77	+1.00 RT.	630.77			+17.50 RT.	633.09

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

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



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 PLOT DATE = 10/17/2014

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CHECKED -	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

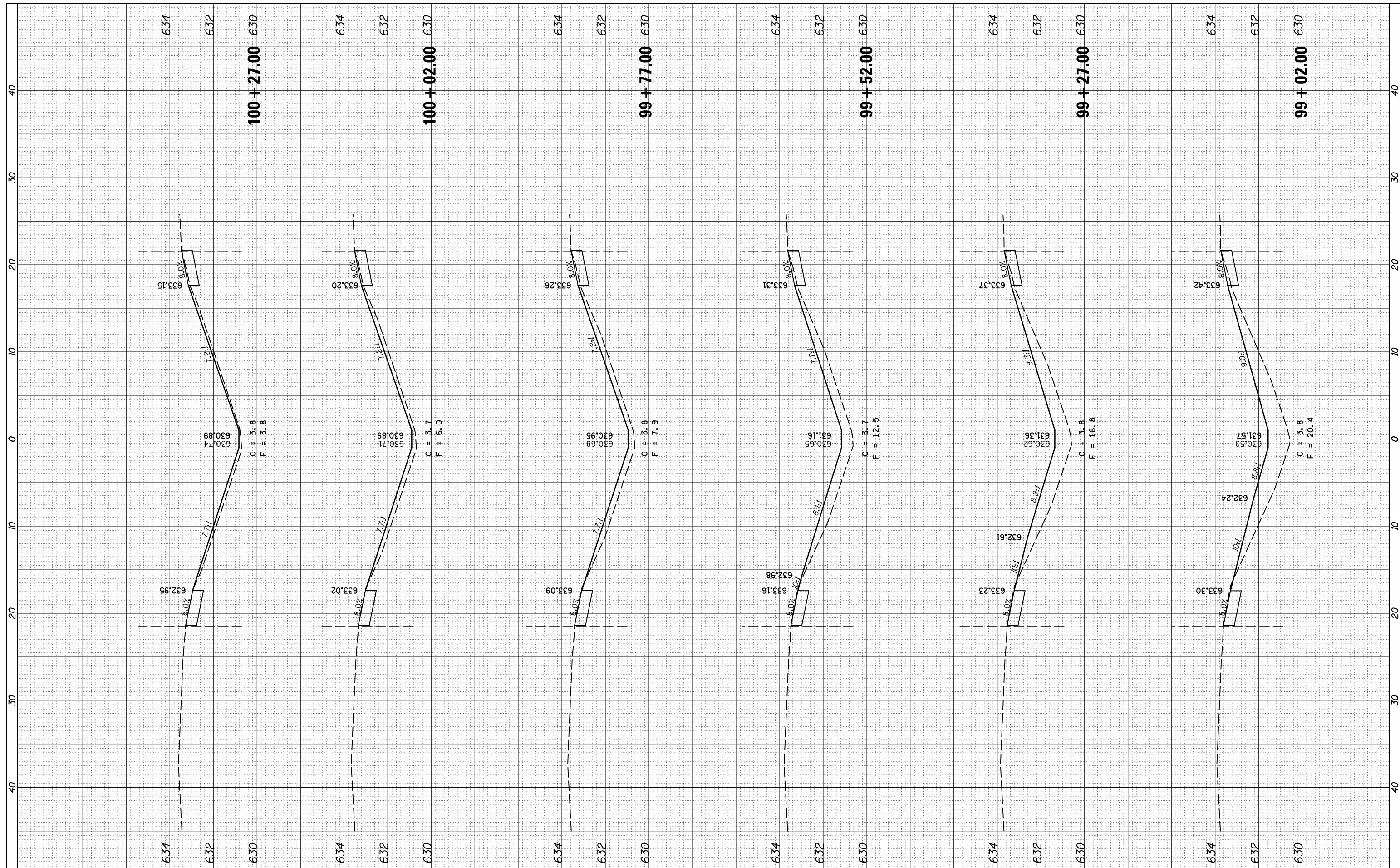
**CROSS SECTIONS - MEDIAN FURNISH EXCAVATION
INDIANA DMS - 5 S 092 1074 L221.86**

SCALE: SHEET OF SHEETS STA. 97+75.00 TO STA. 98+77.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	FY2015 ITS-1	VERMILION	73	19
CONTRACT NO. 70A66				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
NO.	TEMPLATE	
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	CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
NO.	TEMPLATE	
	AREAS	
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FILE NAME =
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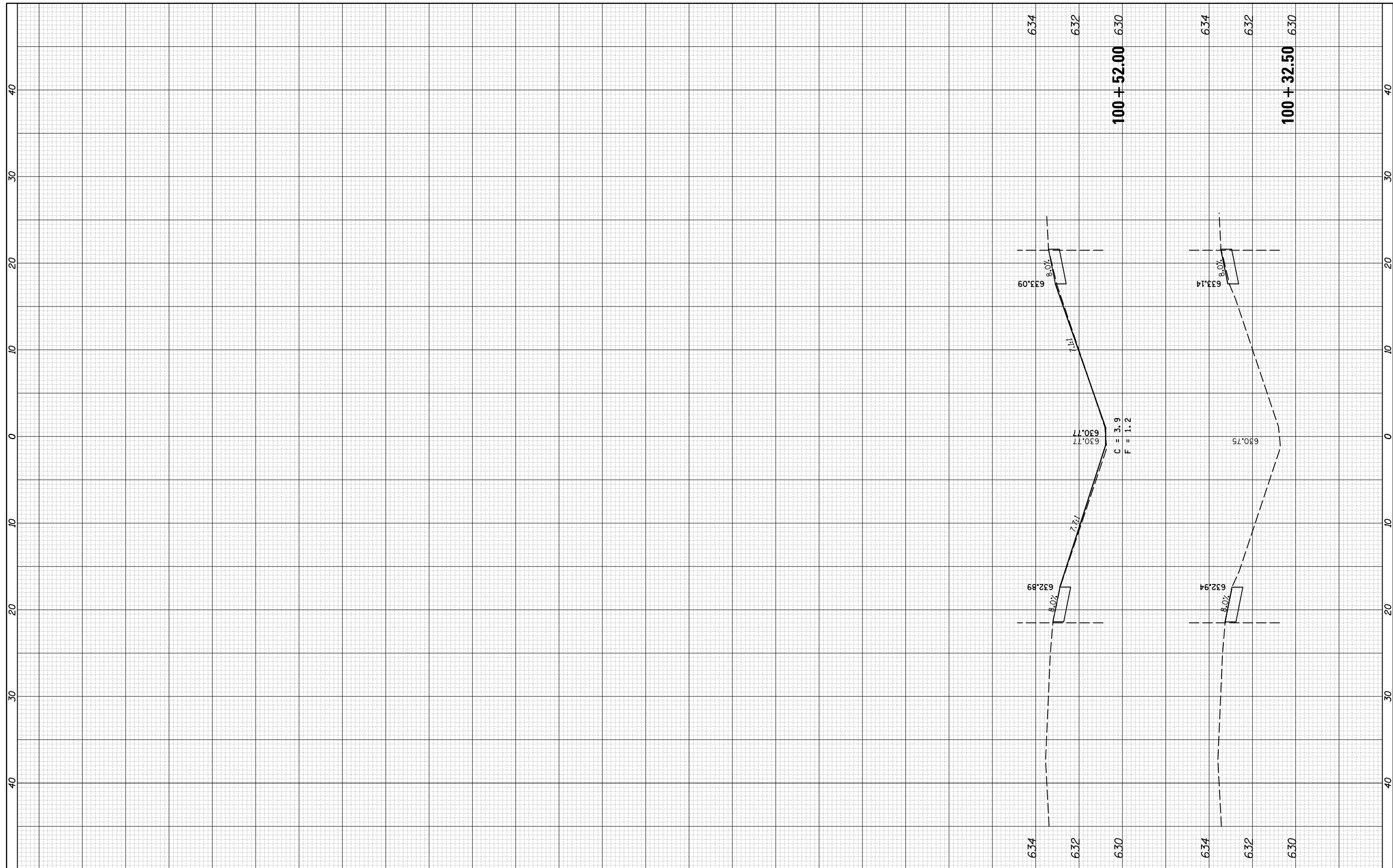
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - MEDIAN FURNISHED EXCAVATION
INDIANA DMS - 5 S 092 1074 L221.86
 SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	FY2015 ITS-1	VERMILION	73	20
CONTRACT NO. 70A66				
ILLINOIS FED. AID PROJECT				

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

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



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		DATE -	REVISED -

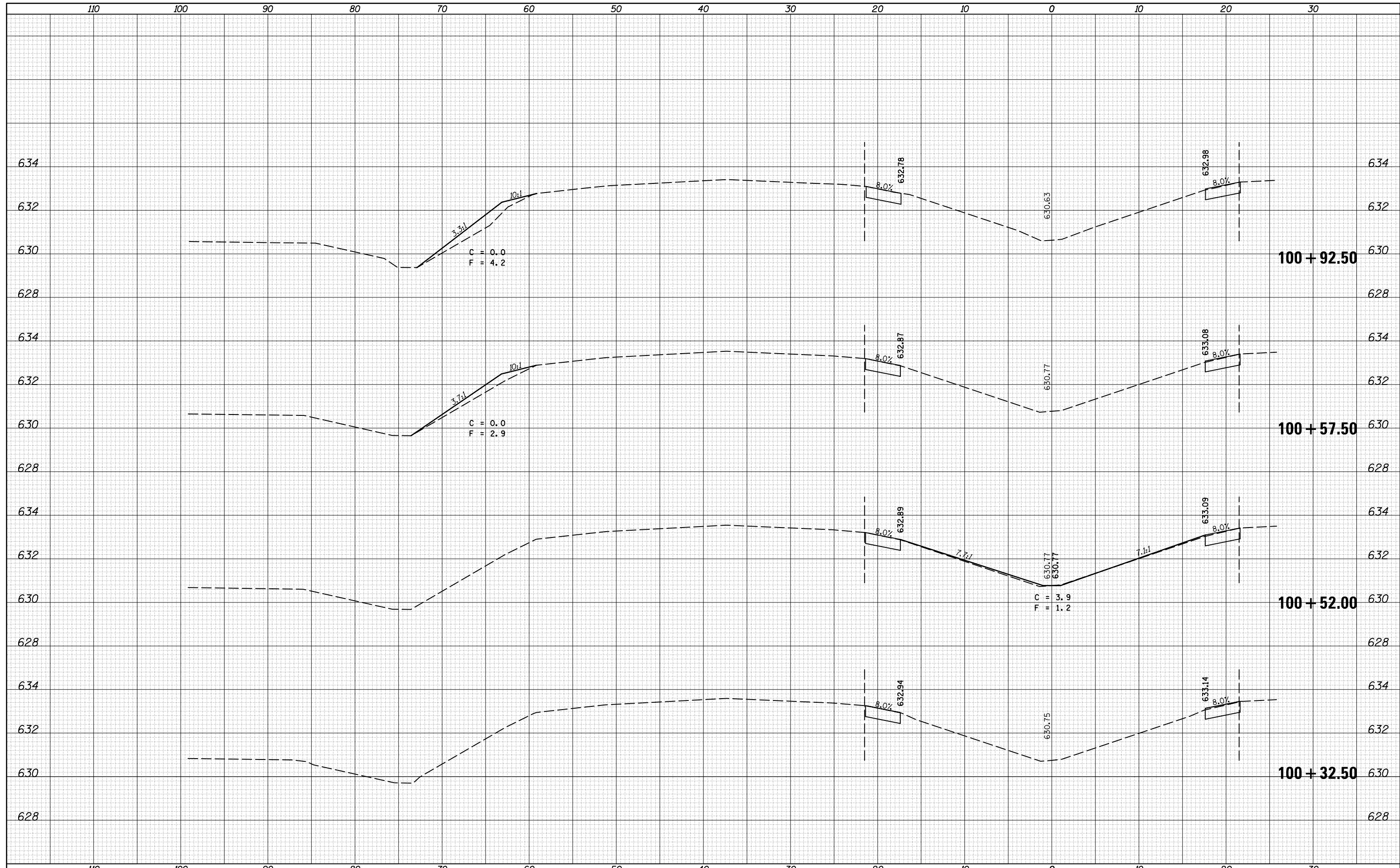
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - MEDIAN FURNISHED EXCAVATION			
INDIANA DMS - 5 S 092 1074 L221.86			
SCALE:	SHEET	OF	SHEETS
			STA. 100+32.50 TO STA. 100+52.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	FY2015 ITS-1	VERMILION	73	21
CONTRACT NO. 70A66			ILLINOIS FED. AID PROJECT	

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

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



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MODELNAME	PLOT DATE = 10/17/2014		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

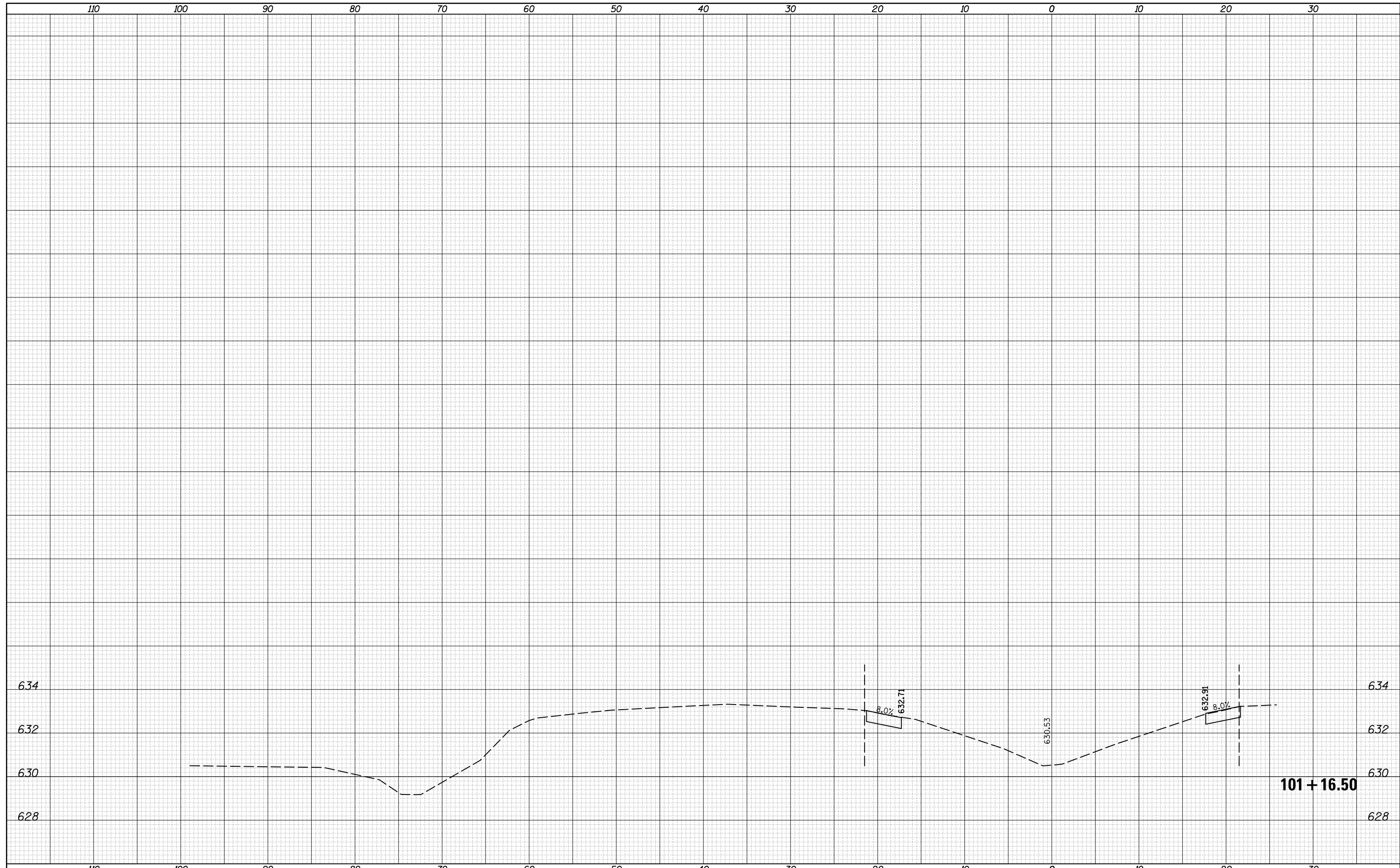
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INDIANA DMS - 5 S 092 1074 L221.86**

SCALE: SHEET OF SHEETS STA. 100+32.50 TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	FY2015 ITS-1	VERMILION	73	22
			CONTRACT NO. 70A66	
ILLINOIS FED. AID PROJECT				

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

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



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USER NAME = piersonbr
 PLOT SCALE = 10.0000' / in.
 PLOT DATE = 10/17/2014

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - GUARDRAIL FURNISHED EXCAVATION
 INDIANA DMS - 5 S 092 1074 L221.86**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	FY2015 ITS-1	VERMILION	73	23
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70A66	

GENERAL NOTES

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

DESIGN STRESSES:
Field Units
F_c = 3,500 p.s.i.
f_y = 60,000 p.s.i. (reinforcement)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard Specifications.

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B or C. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53. All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer.

The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04 (f) (2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316, or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Eyebolt lock nut.

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: Shall conform to ASTM F1554 Gr. 105.

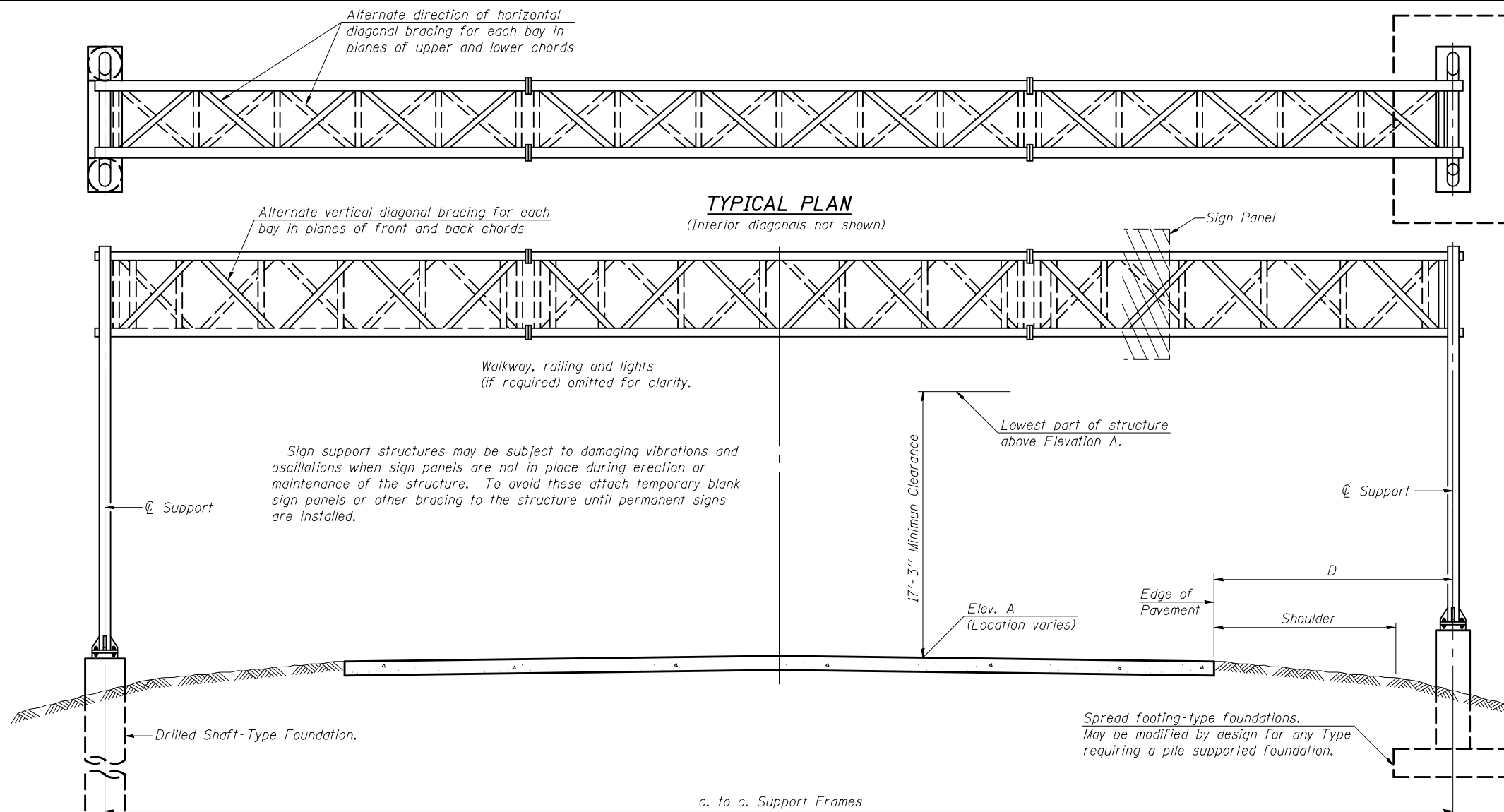
CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Concrete Sealer in accordance with the Standard Specifications.

REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

FOUNDATIONS: The contract unit price for Concrete Foundations and Drilled Shaft Concrete Foundations shall include reinforcement bars complete in place.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE SPAN TYPE I-A	Foot	-
OVERHEAD SIGN STRUCTURE SPAN TYPE II-A	Foot	-
OVERHEAD SIGN STRUCTURE SPAN TYPE III-A	Foot	174
OVERHEAD SIGN STRUCTURE WALKWAY TYPE A	Foot	40
CONCRETE FOUNDATIONS	Cu. Yds.	-
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	54.1



TYPICAL ELEVATION

(Looking at Face of Signs)**

Elev. A = Elevation at point of minimum clearance to sign, walkway support or truss.

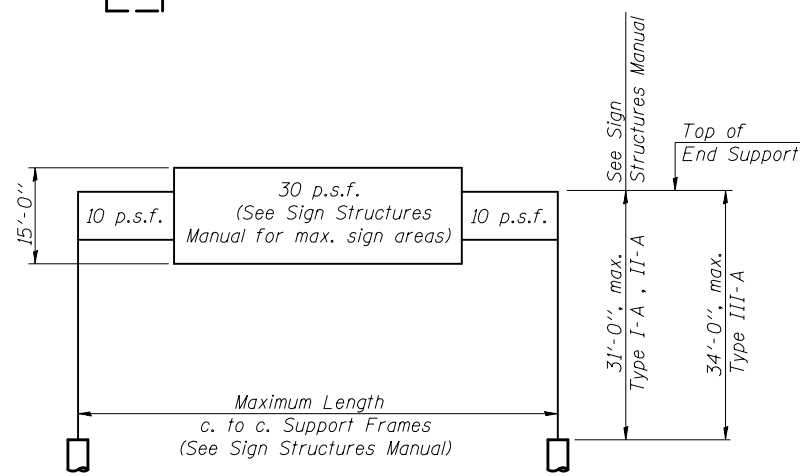
Structure Number	Station	Design Truss Type	c. to c. Supports	Elev. A	Dim. D	Height of Tallest Sign ****	Total Sign Area
5 S 092 1074 R207.63	1574+16	III-A	87'-0"	644.26	***	Exact	Exact
5 S 092 1074 L221.86	98+26	III-A	87'-0"	634.05	***	Dimensions	Dimensions
						of DMS	of DMS
						Cabinets	Cabinets
						Unknown	Unknown

* If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.

**Looking upstation for structures with signs both sides.

***See Sign Truss Mounting Details

****End support height based on 15'-0" sign height per OS4-A-8a



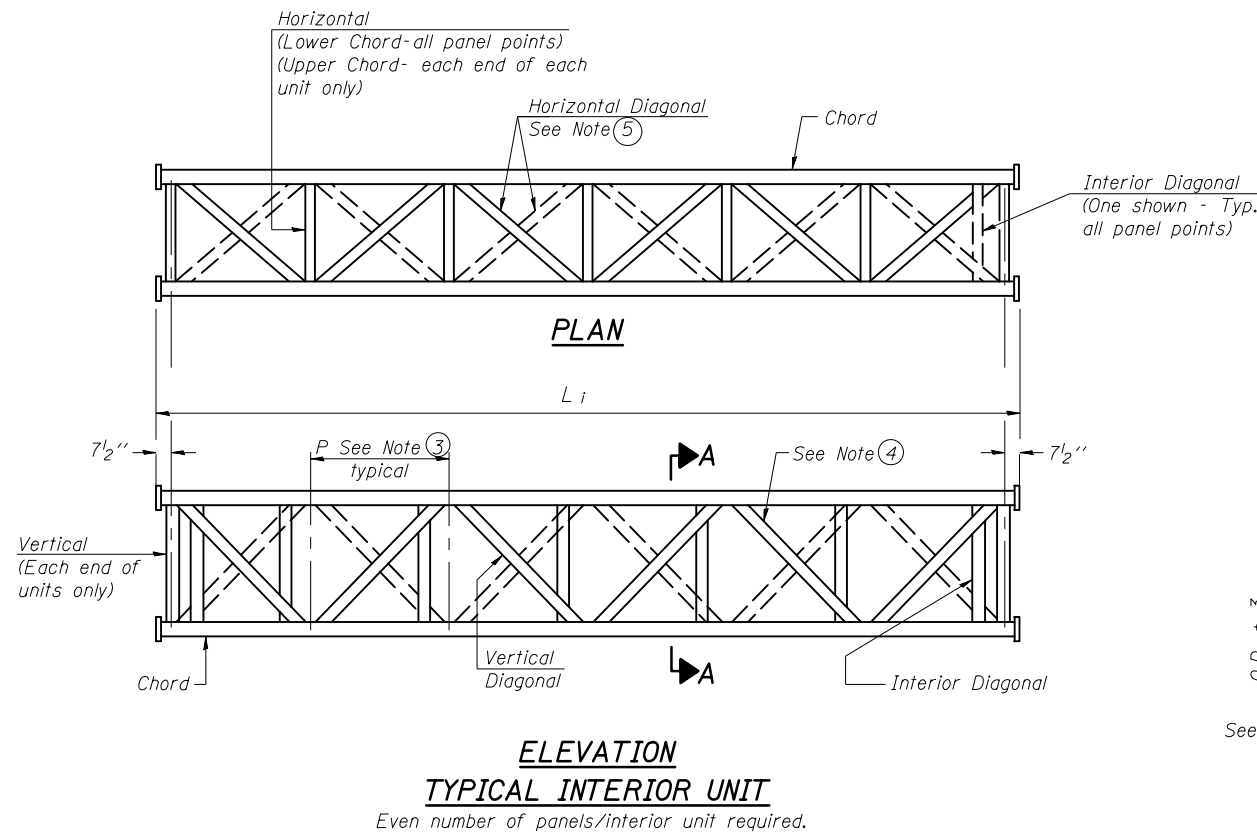
DESIGN WIND LOADING DIAGRAM

Parameters shown are basis for I.D.O.T. Standards and Sign Manual Tables. Installations not within dimensional limits shown require special analysis for all components.

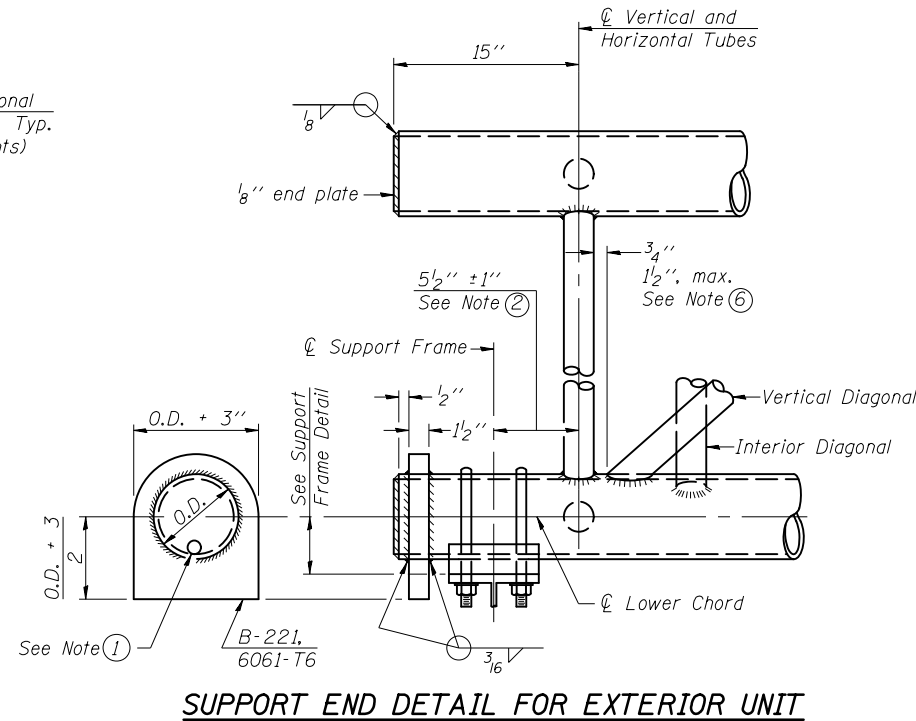
OS-A-1

8-21-13

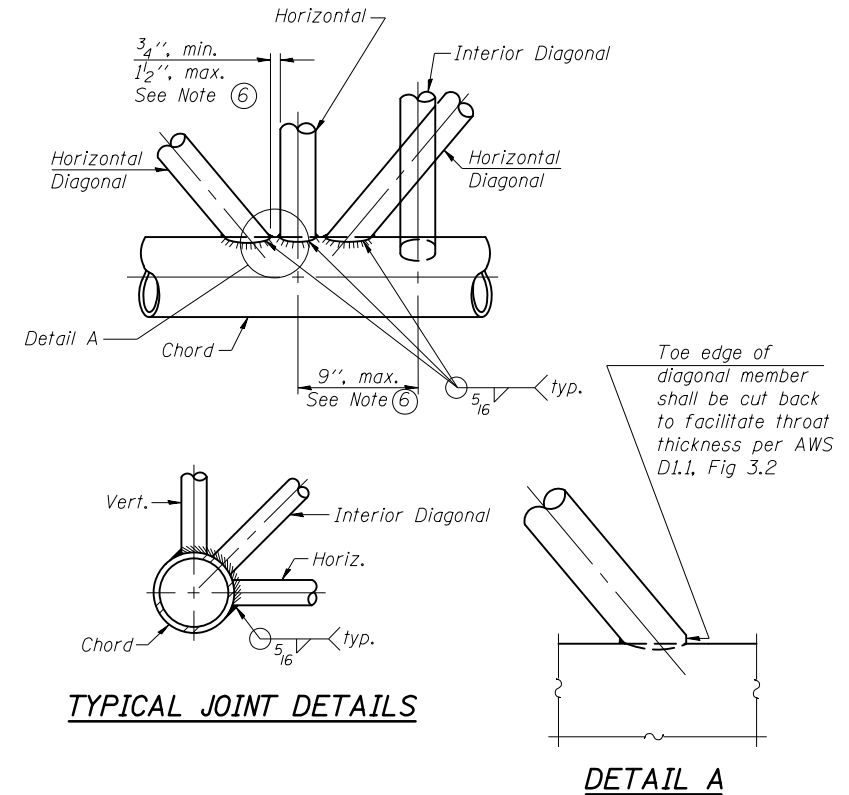
FILE NAME =	USER NAME = ppersonbr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	OVERHEAD SIGN STRUCTURES - GENERAL PLAN & ELEVATION - ALUMINUM TRUSS & STEEL SUPPORTS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ei:\pwork\pwork\pwork\personbr\d0405941\0570A66-sh-t-Details.dgn	DRAWN -	REVISED -	74			FY2015 ITS-1	VERMILION	73	25	
PLOT SCALE = 48.0000' / in.	CHECKED -	REVISED -	CONTRACT NO. 70A66							
MODELNAME	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							



**ELEVATION
TYPICAL INTERIOR UNIT**
Even number of panels/interior unit required.

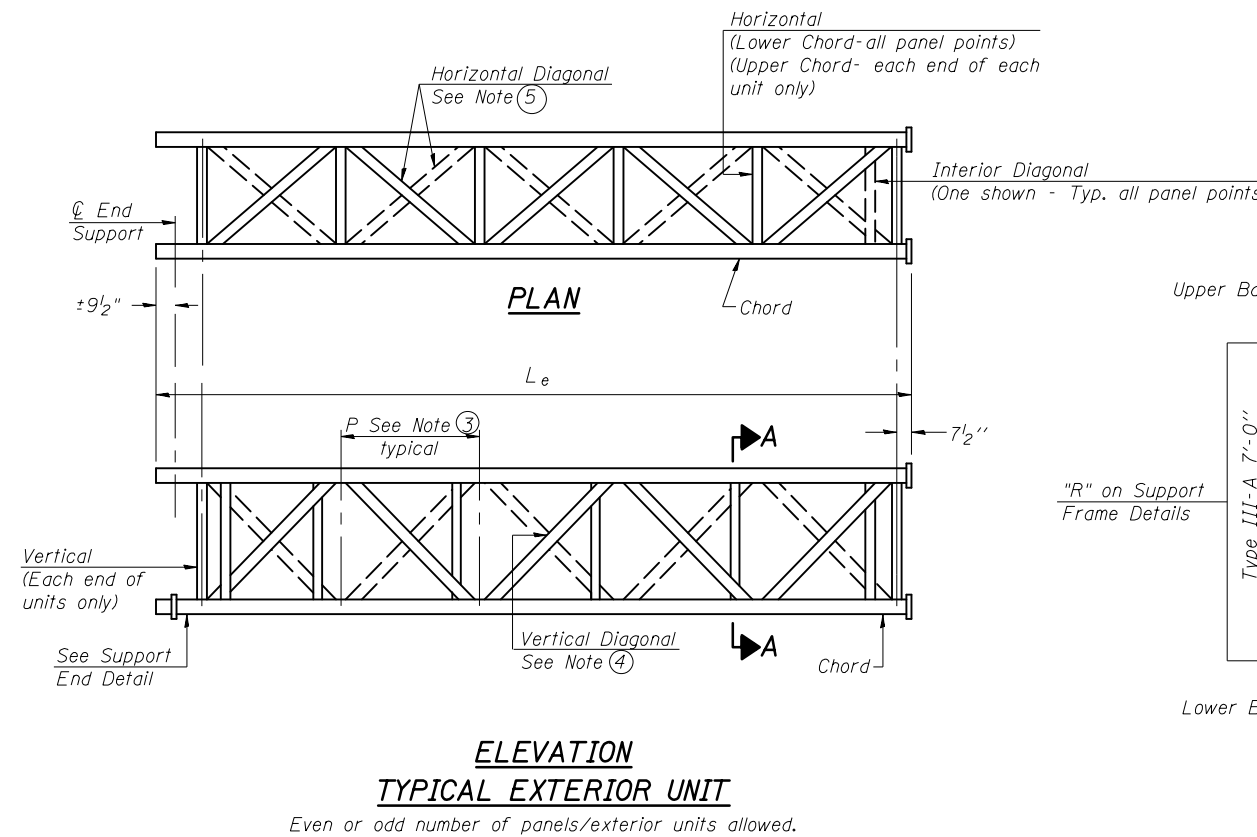


SUPPORT END DETAIL FOR EXTERIOR UNIT

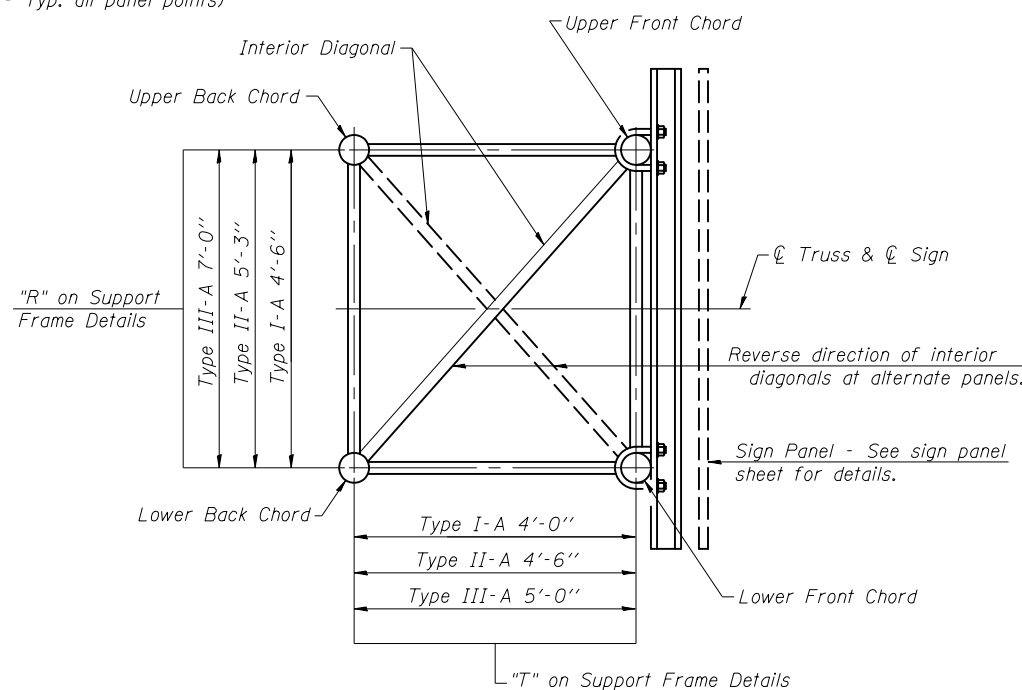


TYPICAL JOINT DETAILS

DETAIL A



**ELEVATION
TYPICAL EXTERIOR UNIT**
Even or odd number of panels/exterior units allowed.



SECTION A-A

- ① Contractor may alternatively use standard aluminum drive-fit cap to close end. 1/2" ϕ drain hole in end plate/drive-fit cap. (Typ. at ends of all chords)
- ② 5 1/2" end dimension may vary by $\pm 1"$ to provide uniform panel spacing (P).
- ③ Panel spacing (P) shall be uniform for entire truss and between 4'-0" and 5'-0" for Type I-A or 4'-0" and 5'-6" for Types II-A and III-A.
- ④ Vertical Diagonals in front and back face shall alternate.
- ⑤ Hidden lines show wind bracing alternates direction between planes of top and bottom chords.
- ⑥ All diagonals shall be detailed for minimum offset from the panel point based on the following: Offset shall be such as to provide a 3/4" minimum to 1 1/2" maximum clearance between any diagonal and any horizontal or vertical member, and to provide clearance for U-bolt connections of signs or walkway brackets.

0S-A-2

6-1-12

FILE NAME =	USER NAME = ppersonbr	DESIGNED -	REVISED -
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		CHECKED -	REVISED -
		DATE -	REVISED -
MODELNAME	PLOT DATE = 10/17/2014		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

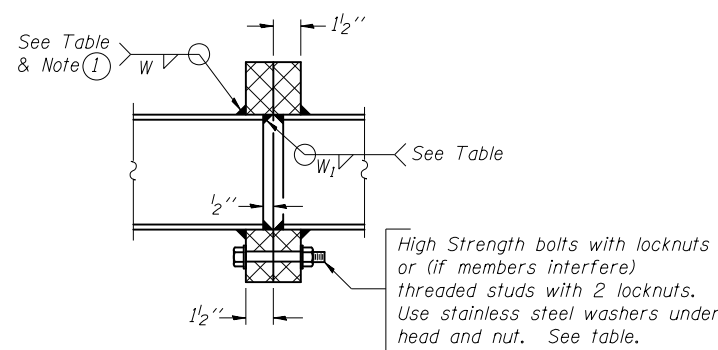
**OVERHEAD SIGN STRUCTURES - ALUMINUM TRUSS
DETAILS FOR TRUSS TYPES I-A, II-A AND III-A**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	FY2015 ITS-1	VERMILION	73	26
			CONTRACT NO. 70A66	
ILLINOIS FED. AID PROJECT				

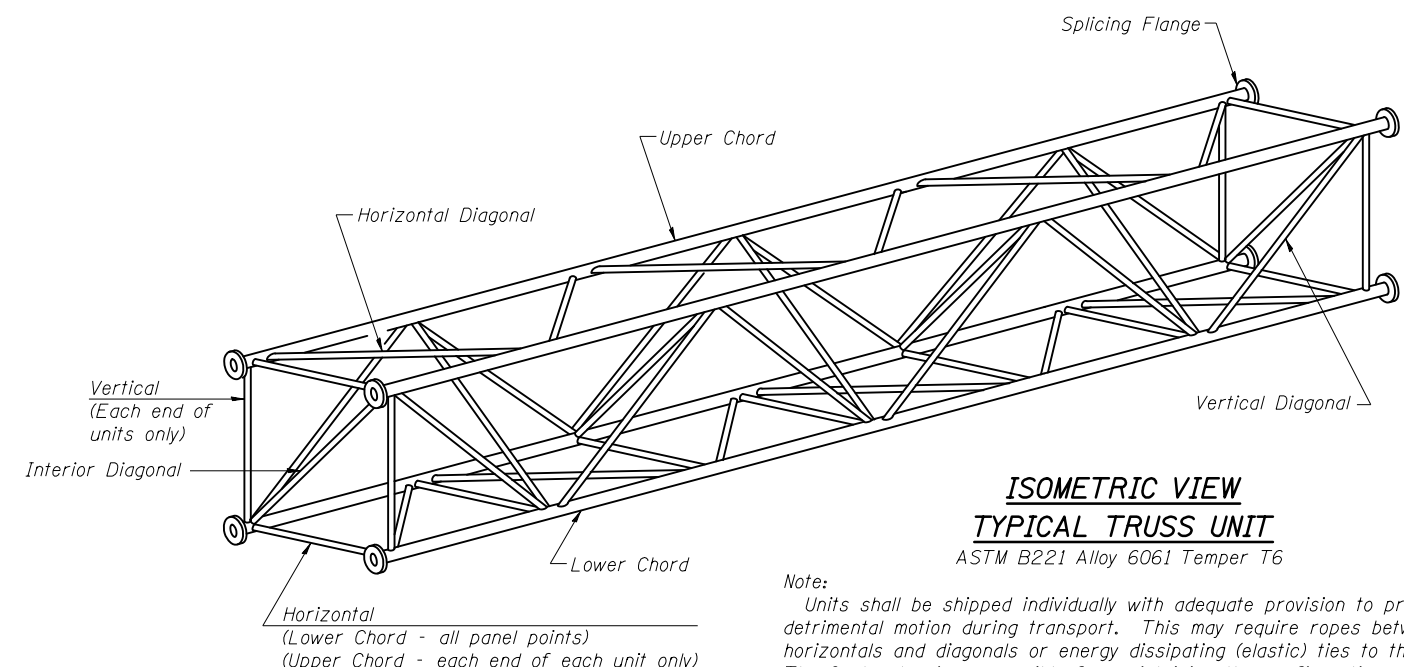
TRUSS UNIT TABLE

Structure Number	Station	Design Truss Type	Exterior Units (2)			Interior Unit				Upper & Lower Chord		Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals		Camber at Midspan	Splicing Flange					
			No. Panels per Unit	Unit Lgth.(L _e)	Panel Lgth.(P)	No. Req'd.	No. Panels per Unit	Unit Lgth.(L _i)	Panel Lgth.(P)	O.D.	Wall	O.D.	Wall		Bolts		Weld Sizes		A	B
															No./Splice	Dia.	W	W ₁		
5 S 092 1074 R207.63	1574+16	III-A	5	28'-0 1/4"	5'-2 3/4"	1	6	32'-7 1/2"	5'-2 3/4"	7"	3/8"	3 1/4"	5/16"	1 1/2"	8	1"	9/16"	7/16"	11 1/2"	15"
5 S 092 1074 L221.86	98+26	III-A	5	28'-0 1/4"	5'-2 3/4"	1	6	32'-7 1/2"	5'-2 3/4"	7"	3/8"	3 1/4"	5/16"	1 1/2"	8	1"	9/16"	7/16"	11 1/2"	15"



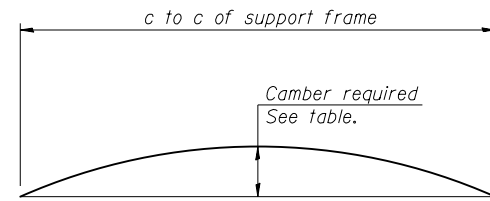
SECTION B-B

① Splicing Flanges shall be attached to each truss unit with the truss shop assembled to camber shown. Truss units shall be in proper alignment and flange surfaces shall be shop bolted into full contact before welding. Sufficient external welds or tacks shall be made to secure flanges until remaining welds are made after disassembly. Adjacent flanges shall be "match marked" to insure proper field assembly.



**ISOMETRIC VIEW
TYPICAL TRUSS UNIT**
ASTM B221 Alloy 6061 Temper T6

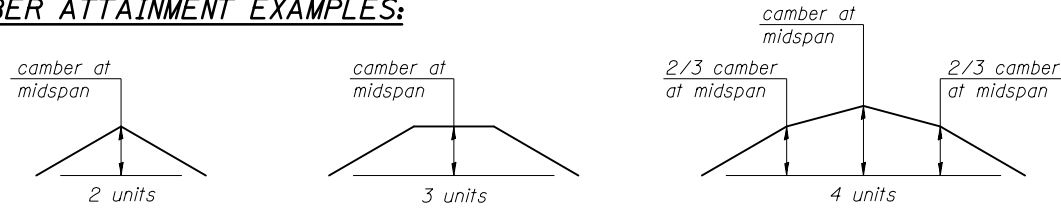
Note:
Units shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The Contractor is responsible for maintaining the configuration and protection of the units.



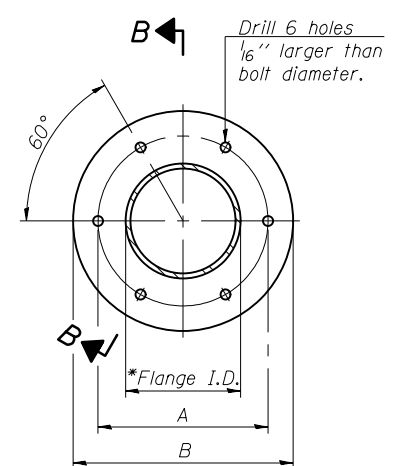
CAMBER DIAGRAM

Camber curve shown is theoretical. Actual camber attained by slope changes at splices between units.

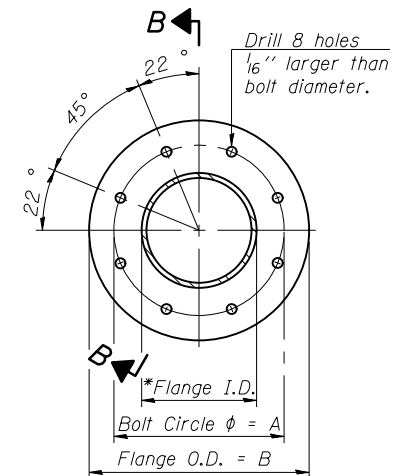
CAMBER ATTAINMENT EXAMPLES:



Camber shown is for fabrication only, measured with truss fully supported. (No-load condition)



TRUSS TYPES I-A, II-A, & III-A



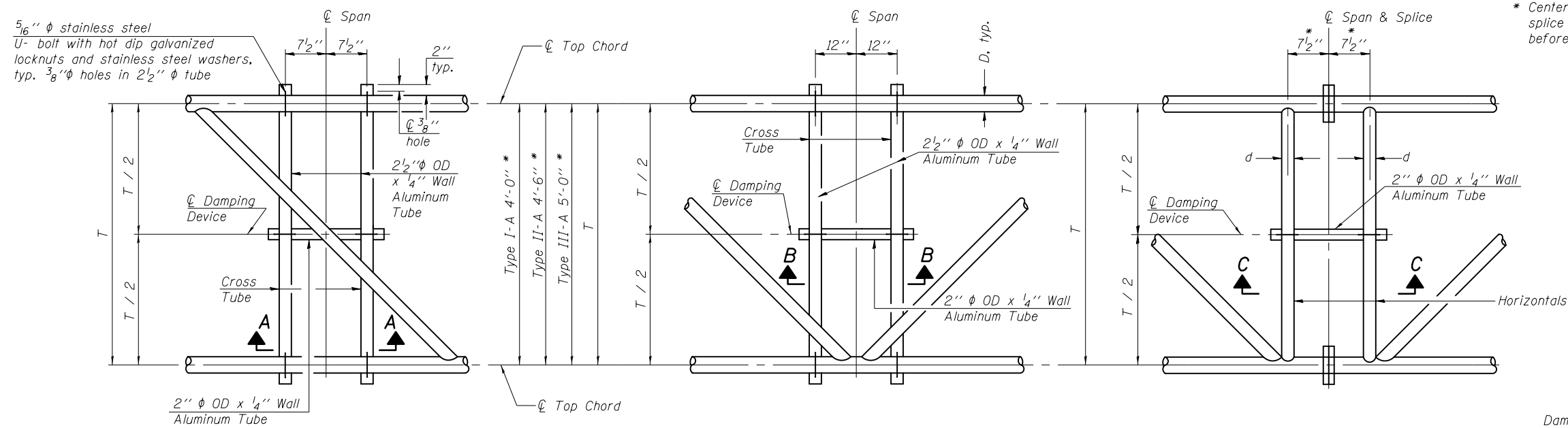
**TRUSS TYPES II-A & III-A
SPLICING FLANGES**

ASTM B221, Alloy 6061-T6
or ASTM B209, Alloy 6061-T651
*To fit O.D. of Chord with maximum gap of 1/16".

OS4-A-2

6-1-12

FILE NAME =	USER NAME = ppersonbr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	OVERHEAD SIGN STRUCTURES - ALUMINUM TRUSS DETAILS FOR TRUSS TYPES I-A, II-A AND III-A	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ei:\pwork\pwork\personbr\d0405941\0570A66-shit-Details.dgn	PLOT SCALE = 40.0000' / in.	DRAWN -	REVISED -			74	FY2015 ITS-1	VERMILION	73	27	
MODELNAME	PLOT DATE = 10/17/2014	CHECKED -	REVISED -			CONTRACT NO. 70A66					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					



PLAN DETAIL "A"
 ☐ Span between Panel Points

PLAN DETAIL "B"
 ☐ Span at Panel Point

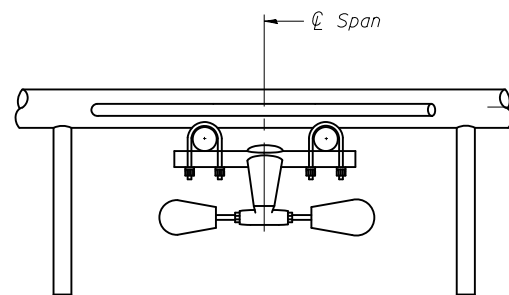
PLAN DETAIL "C"
 ☐ Span at ☐ Chord Splice

* Center of horizontal to center of splice dimension may vary. Verify before drilling holes in mounting tube.

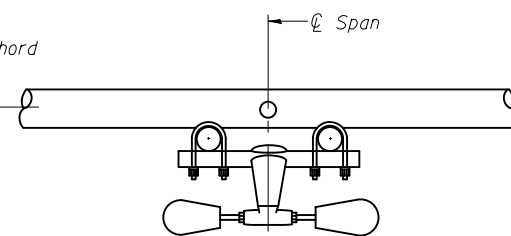
NOTES

Damper: One damper per truss. (31 lbs. minimum Stockbridge-Type Aluminum - 29" minimum between ends of weights) Cost included in Overhead Sign Structure...

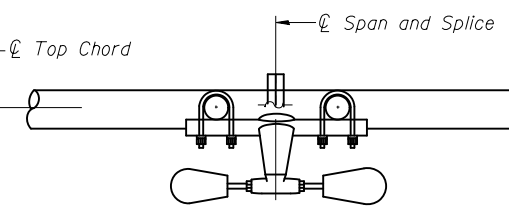
Materials: Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6. Cost included in Overhead Sign Structure...



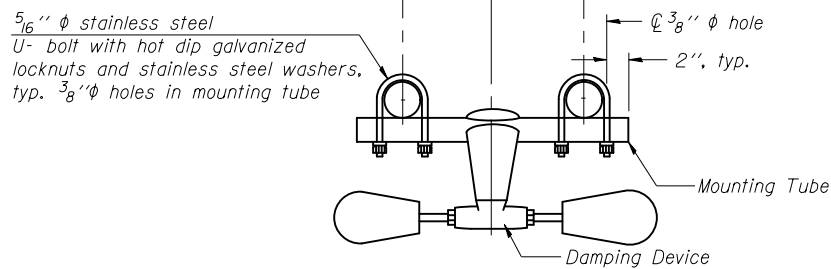
SECTION A-A



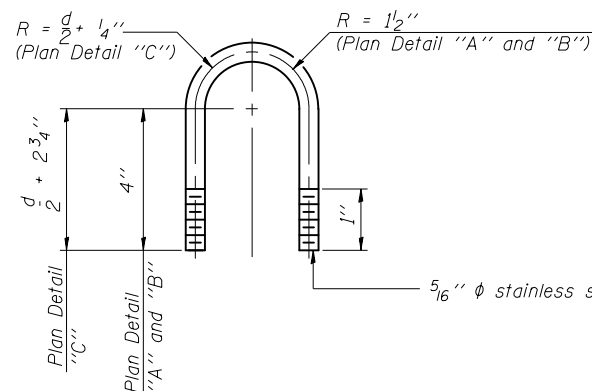
SECTION B-B



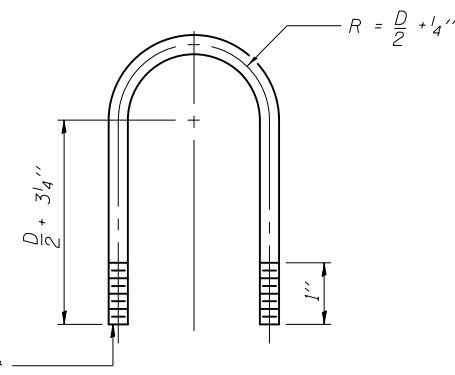
SECTION C-C



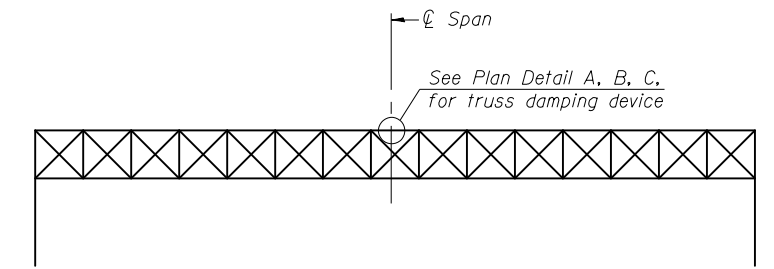
TRUSS DAMPING DEVICE CONNECTION DETAIL
 (Typical)



DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL
 (Typical)



TOP CHORD TO CROSS TUBE U-BOLT DETAIL
 (Typical - Detail "A" and "B")



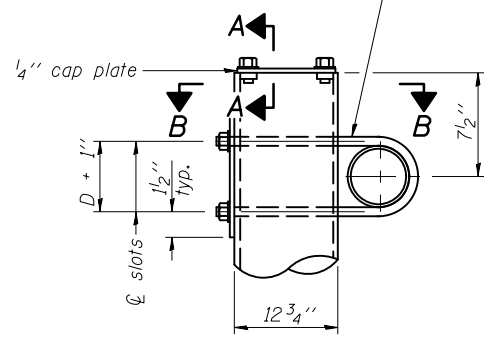
ELEVATION
 Aluminum Overhead Sign Truss

OS-A-D

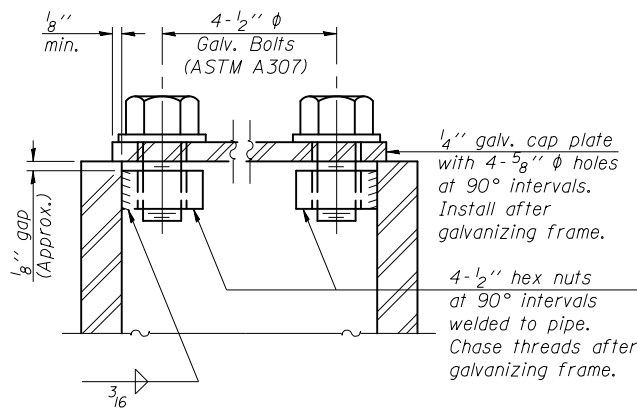
6-1-12

FILE NAME =	USER NAME = ppersonbr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	OVERHEAD SIGN STRUCTURE DAMPING DEVICE				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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MODELNAME	PLOT DATE = 10/17/2014	CHECKED -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	CONTRACT NO. 70A66	
		DATE -	REVISED -									ILLINOIS FED. AID PROJECT	

$\frac{3}{4}$ " ϕ stainless steel U-bolt.
Provide two washers and two hexagon locknuts. (4)
 $\frac{13}{16}$ " x 2" slots on ϕ 12" ϕ pipe.
(4 slots required per pipe)

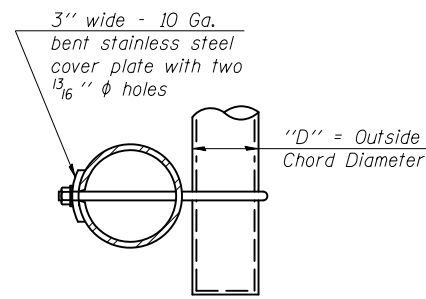


DETAIL A

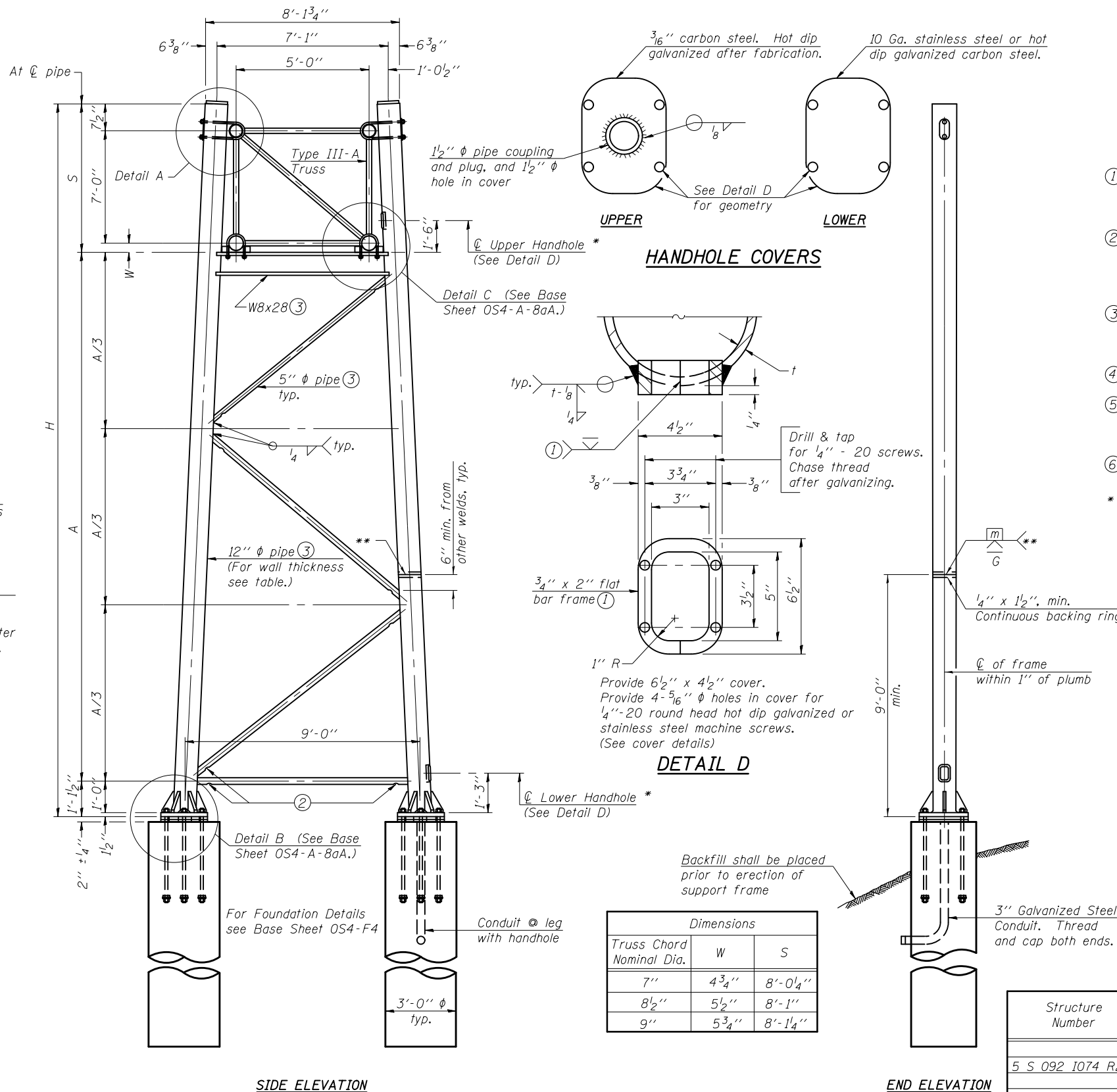


SECTION A-A

As an alternate to bolts, may use galvanized drive-fit caps installed after galvanizing frame.



SECTION B-B



SIDE ELEVATION

END ELEVATION

Dimensions		
Truss Chord Nominal Dia.	W	S
7"	4 ³ / ₄ "	8'-0 ¹ / ₄ "
8 ¹ / ₂ "	5 ¹ / ₂ "	8'-1"
9"	5 ³ / ₄ "	8'-1 ¹ / ₄ "

TRUSS SUPPORT DETAILS

(12" ϕ Pipe-Type III-A Truss)

** One butt welded joint is allowed only on one post per support frame. If used, weld procedure must be pre-approved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.

Support Design Loads: See Base Sheet OS-A-1 for design and loading criteria.
Load combinations checked include deadload plus:
a) 100% wind normal to sign, 20% parallel to sign
b) 60% wind normal to sign, 30% parallel to sign

- ① In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500 μ m or less.
- ② Galvanizing vent holes of adequate size shall be provided on underside at each end of bracing pipes. Alternately, holes may be provided in wall of pipe column. All vent holes shall be drilled and de-burred, typ.
- ③ Steel pipe, plate, carbon steel handhole covers and rolled sections shall be hot dip galvanized after fabrication. Painting is not permitted. See Base Sheet OS-A-1.
- ④ See General Notes for fasteners.
- ⑤ Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.
- ⑥ "H" based on 15'-0" or actual sign height, whichever is greater.

* For dynamic message sign installations, provide upper and lower handholes in both legs of each support frame.

Structure Number	Station	Support		Pipe Wall Thickness	H (6)	A
		Left	Right			
5 S 092 1074 R207.63	1574+16	NORTH		0.33	29'-1 ³ / ₄ "	20'-0"
			SOUTH	0.33	29'-7 ³ / ₄ "	20'-6"
5 S 092 1074 L221.86	98+26	SOUTH	NORTH	0.33	29'-7 ³ / ₄ "	20'-6"

OS4-A-8a

6-1-12

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		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

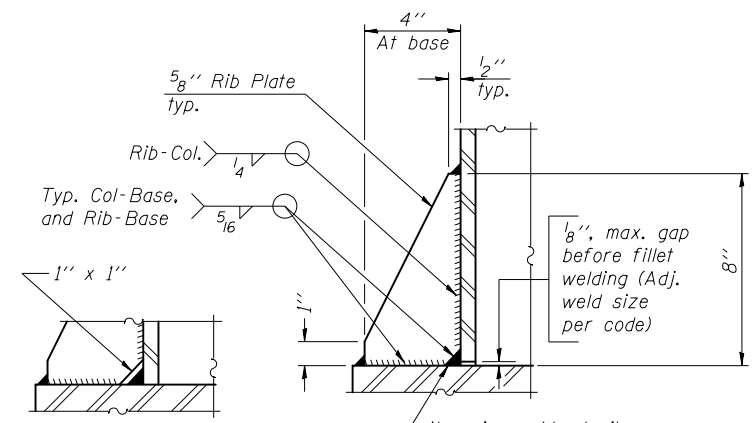
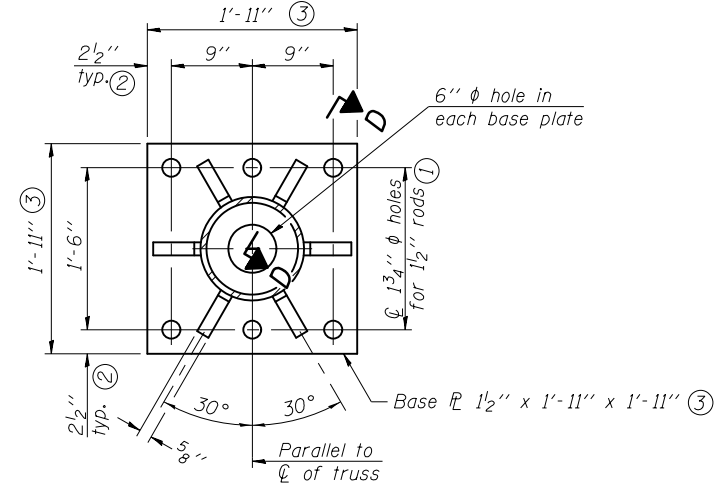
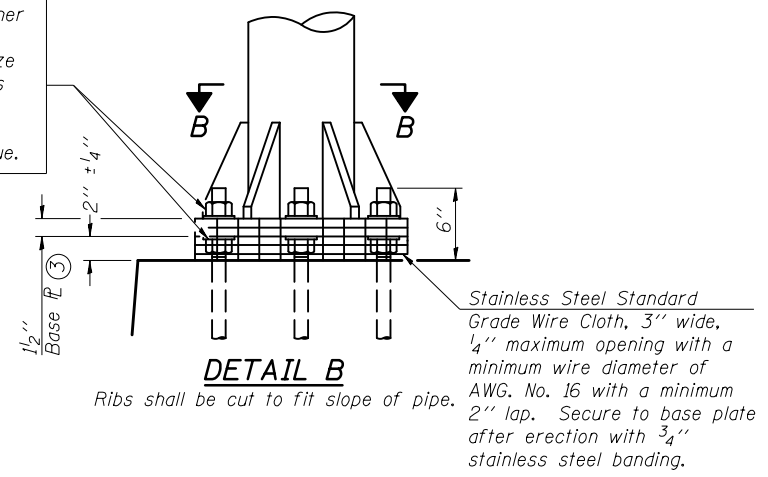
**OVERHEAD SIGN STRUCTURES - SUPPORT FRAME
FOR TYPE III-A ALUMINUM TRUSS**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	FY2015 ITS-1	VERMILION	73	29
CONTRACT NO. 70A66				

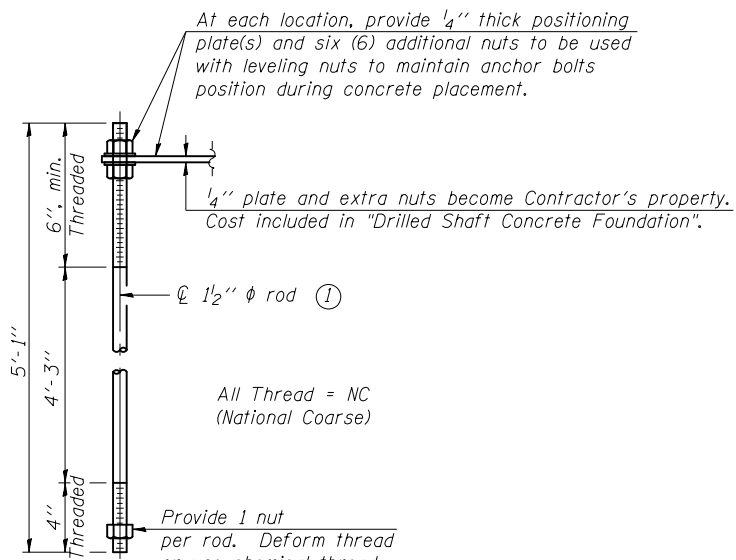
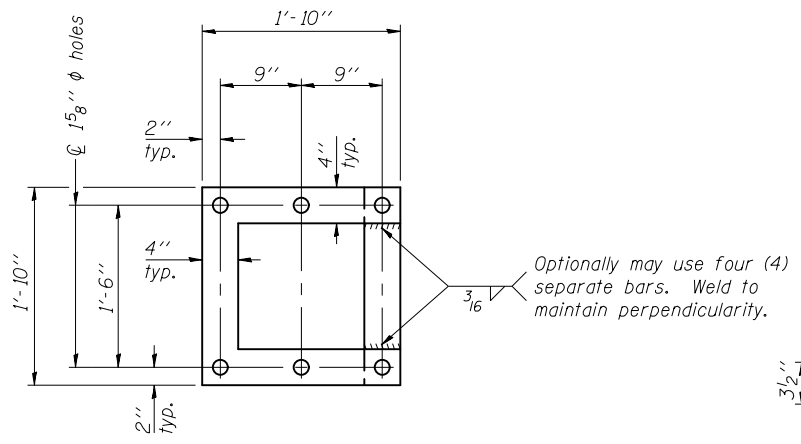
SCALE: SHEET OF SHEETS STA. TO STA.

ILLINOIS FED. AID PROJECT

Hexagon locknut and washer (top), leveling nut and washer (bottom). Galvanize per AASHTO M232. Nuts shall each be tightened against base plate with 200 lb.-ft. minimum torque.



** Alternate detail if welding col. to base plate first, then snip inside corner of ribs. Terminate weld on rib 1/4" from snip.



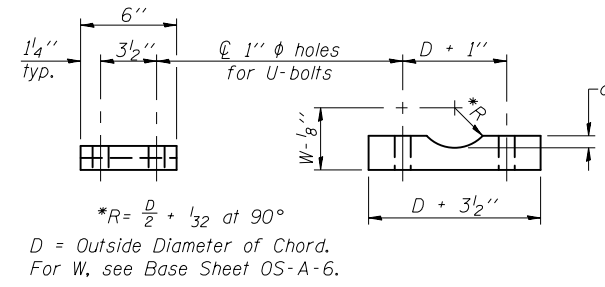
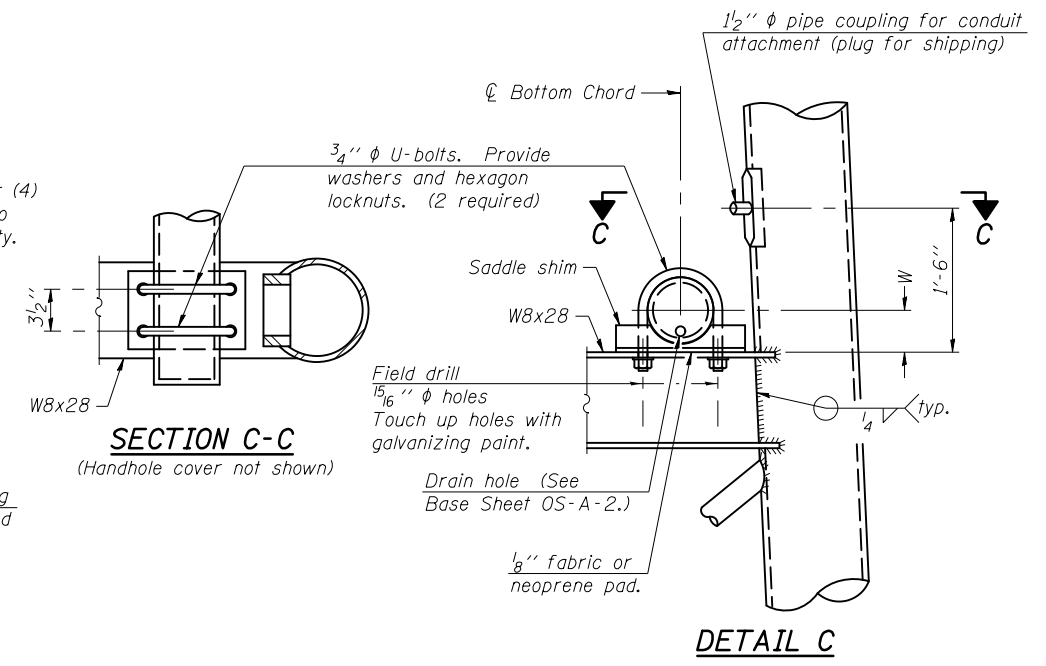
TYPE III-A TRUSS
12" ϕ PIPE SUPPORT FRAME DETAILS

Notes:
For Type III-A Truss spans greater than 150 ft, and up to 160 ft.:

① 1 3/4" ϕ rod, 2" ϕ holes

② 2 3/4" edge distance

③ Base Pl 1 5/8" x 1'-11 1/2" x 1'-11 1/2"



Truss Chord Nominal Dia.	a
7"	1"
8 1/2"	1 1/4"
9"	1 3/8"

SADDLE SHIM DETAIL
ASTM B26 Alloy 356-F
or
ASTM B209 Alloy 6061-T651
(4 required per sign truss)

OS4-A-8aA

6-1-12

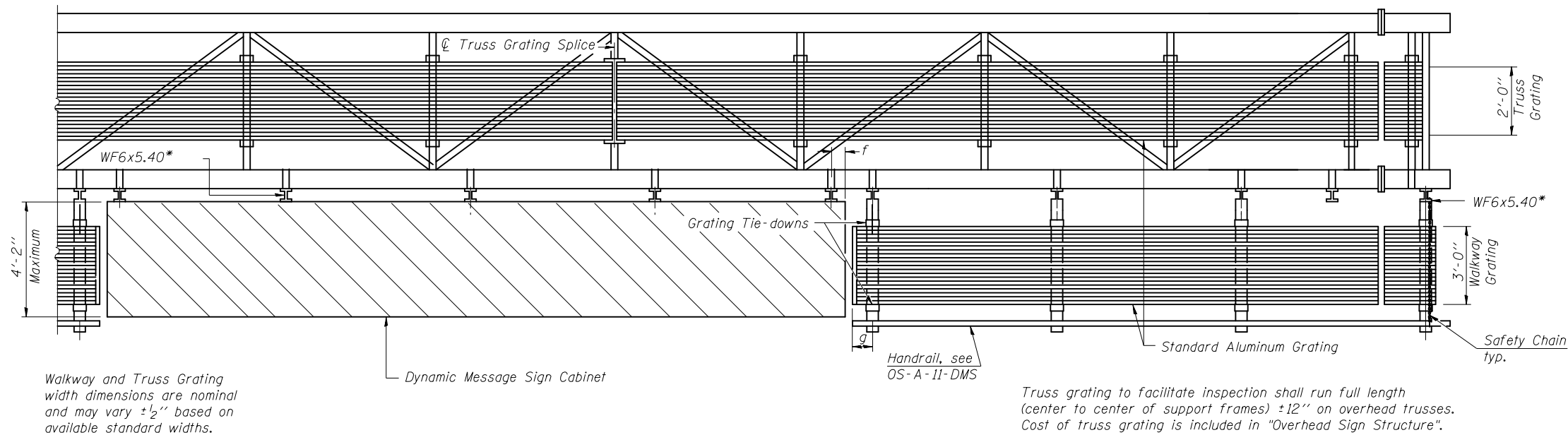
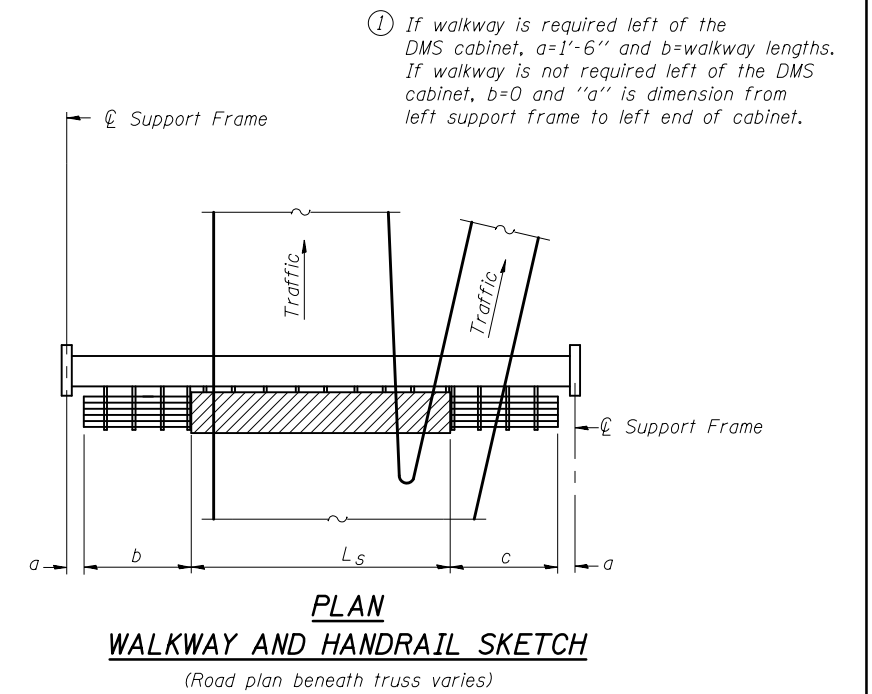
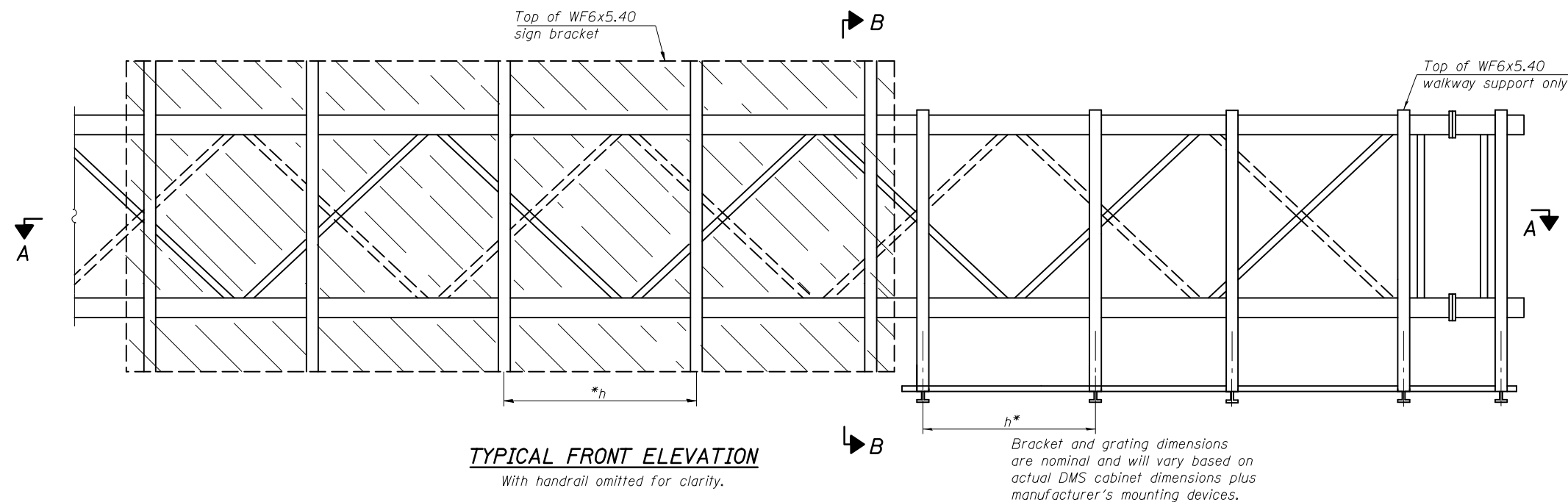
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		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
SUPPORT FRAME FOR TYPE III-A ALUMINUM TRUSS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	FY2015 ITS-1	VERMILION	73	30
			CONTRACT NO. 70A66	
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.



BRACKET TABLE

WF6x5.40 ASTM B308, Alloy 6061-T6		
Sign Width		Number Brackets Required
Greater Than	Less Than or Equal To	
	8'-0"	2
8'-0"	14'-0"	3
14'-0"	20'-0"	4
20'-0"	26'-0"	5
26'-0"	32'-0"	6

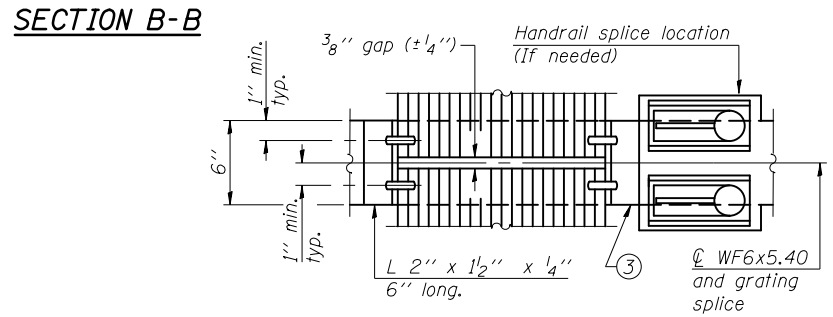
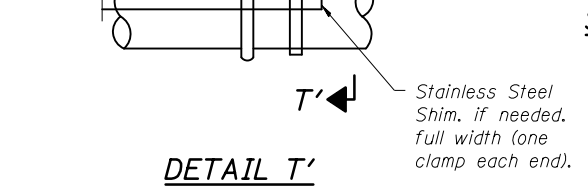
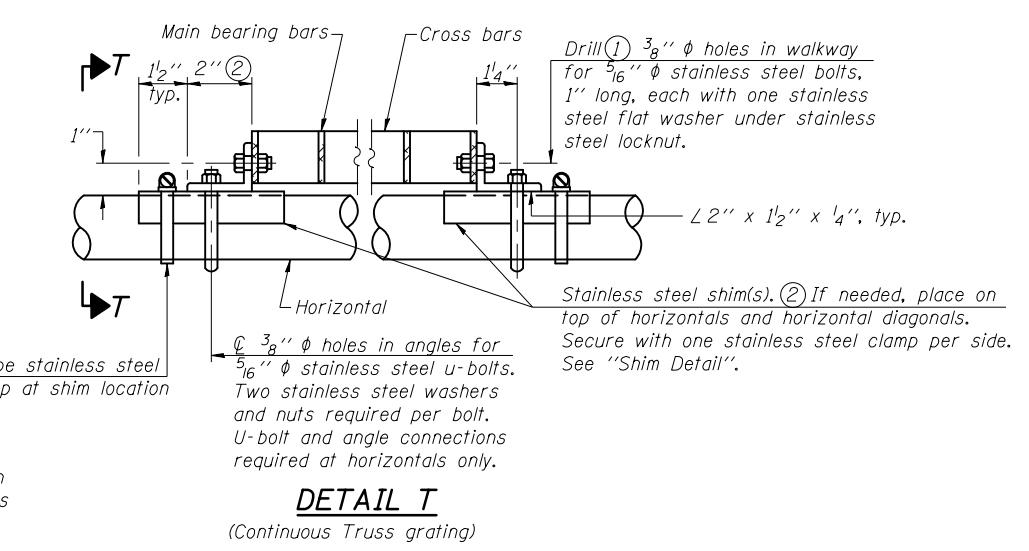
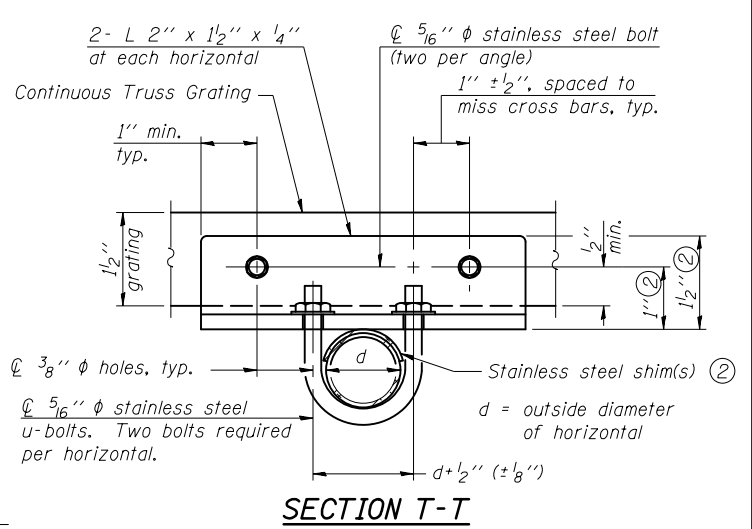
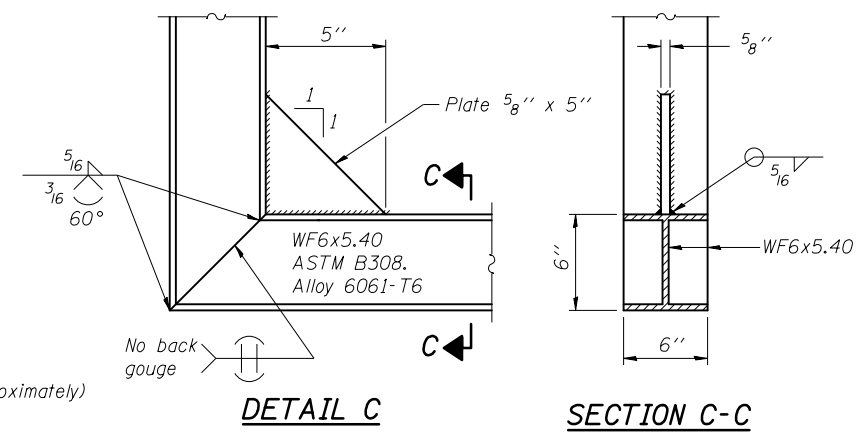
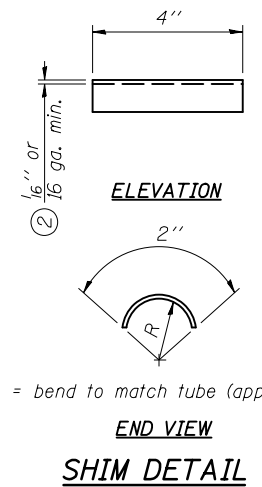
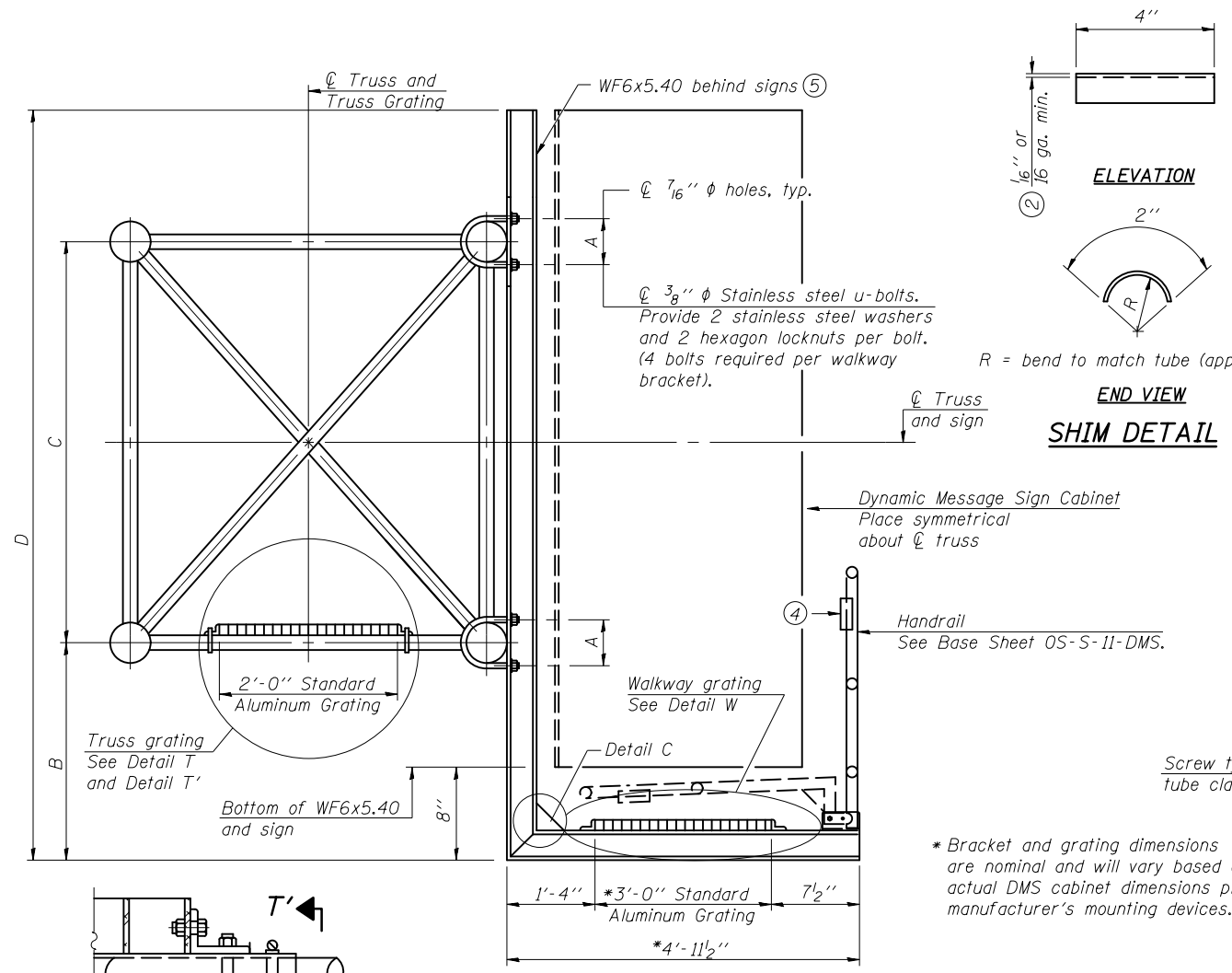
SECTION A-A
Handrail and walkway shall span a minimum of three brackets between splices and/or gap joints. Place all sign and walkway brackets as close to panel points as practical. Grating and handrail splices placed as needed.

Notes:
* Space walkway brackets WF6x5.40 for efficiency and within limits shown:
 $f = 12''$ maximum, 4'' minimum (End of sign to \O of nearest bracket)
 $g = 12''$ maximum, 4'' minimum (End of walkway grating to \O of nearest support bracket)
 $h = 6'-0''$ maximum (\O to \O sign and/or walkway support brackets, WF6x5.40)

Maximum DMS weight = 5000 lbs. 4'-2'' maximum cabinet depth includes depth of cabinet plus connection to WF6x5.40.
For Section B-B and Grating Splice Details, see Base Sheet OS-A-10-DMS.
For Handrail Splice Details, see Base Sheet OS-A-11-DMS.

Structure Number	Station	a	b	c	L_s	Walkway Grating and Handrail Lengths
5 S 092 1074 R207.63	1574+16		10'-0"	10'-0"	Exact	10' (Lt.) & 10' (Rt.)
5 S 092 1074 L221.86	98+26		10'-0"	10'-0"	Dimensions	10' (Lt.) & 10' (Rt.)
						of DMS
						Cabinets
						Unknown

OS-A-9-DMS 6-1-12



SPECIFICATIONS FOR STANDARD ALUMINUM GRATING

Main Bearing Bars shall be 3/16" x 1 1/2" on 1 3/16" centers and conform to ASTM B221 Alloy 6061-T6.
 Cross bars shall be 3/16" x 1 1/2" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

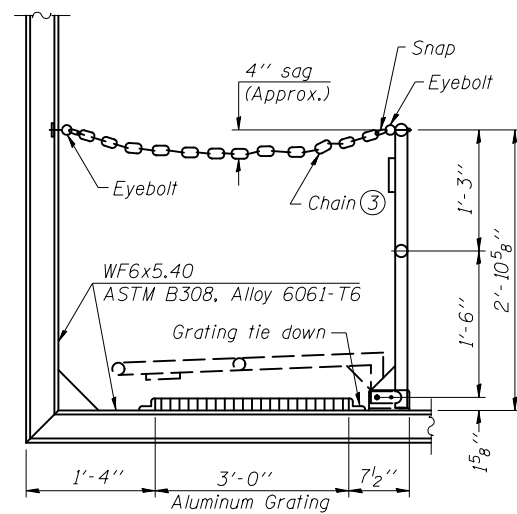
OR

Aluminum Grating with modified "I" sections for main bearing bars shall meet the following requirements:
 Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 in. per bar, a depth of 1 1/2", spaced on 1 3/16" centers.
 Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.

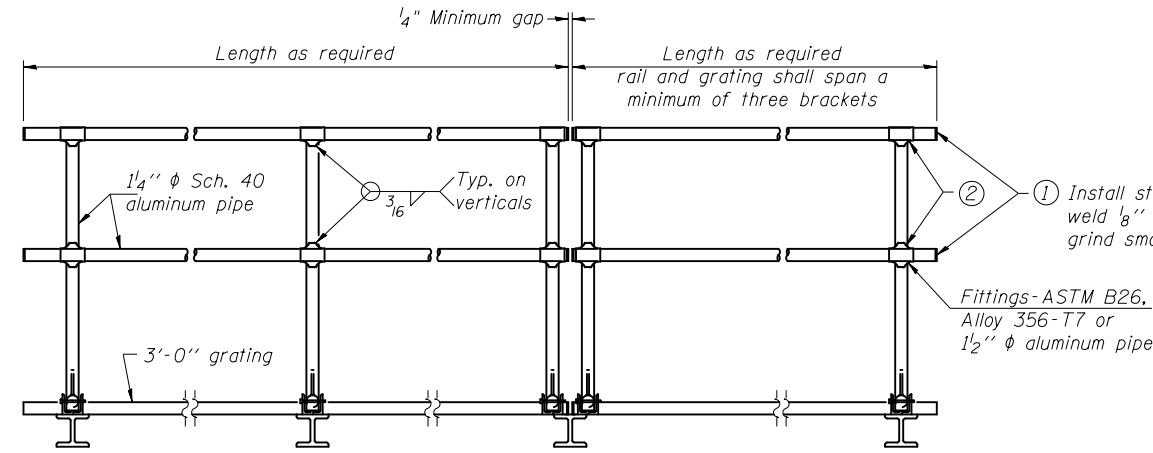
- Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
- Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.
- If Handrail Joint present, weld angle to WF(A-N)4 and 1/4" extension bars. (See Base Sheet OS-A-11.)
- 1/8" x 1/2" x 2" welded to handrail posts to protect locations that contact grating.
- Cabinet manufacturer must design and supply hardware for connection of cabinet to WF6's. Bolts must be stainless steel or hot dip galvanized high strength per IDOT specifications.
- Based on actual height of tallest sign given on OS-A-1.
Exact dimensions of DMS Cabinets unknown

Structure Number	Station	A	⑥ B	C	⑥ D
5 S 092 I074 R207.63	1574+16			7'-0"	
5 S 092 I074 L221.86	98+26			7'-0"	

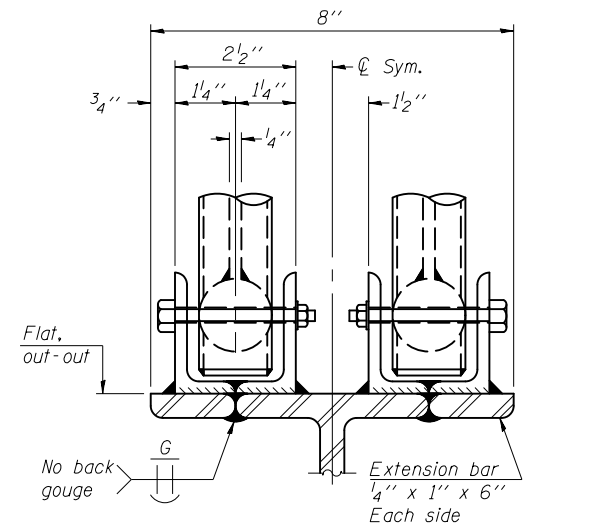
OS-A-10-DMS 6-1-12



SIDE ELEVATION
(Showing safety chain w/o sign)



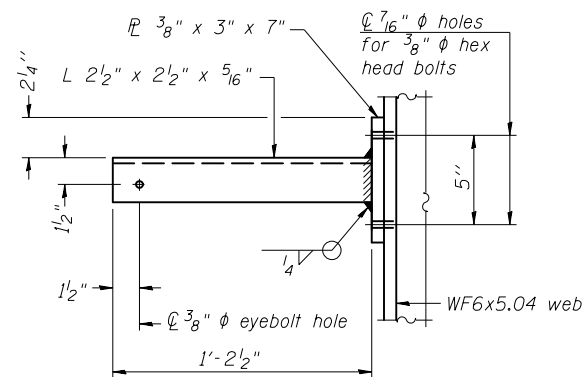
FRONT ELEVATION



ELEVATION AT HANDRAIL JOINT ④

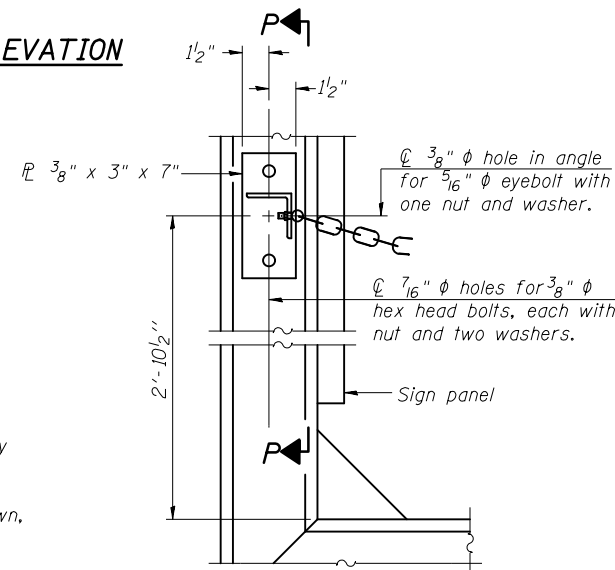
HANDRAIL DETAILS

Handrail pipe shall be ASTM B241, Alloy 6063-T6 or Alloy 6061-T6.



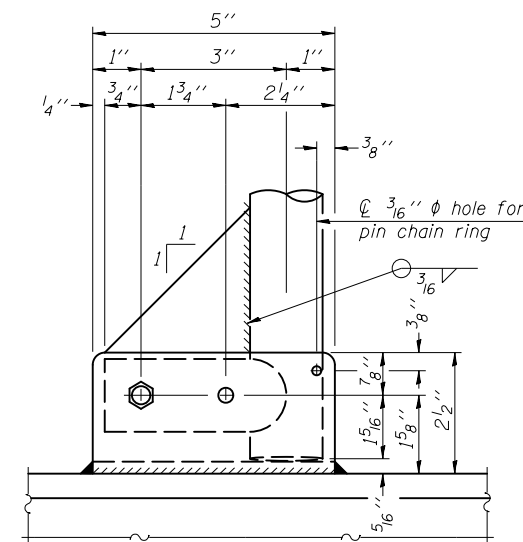
SECTION P-P

- ② Horizontal handrail member shall be continuous thru fitting. Provide 7/16" hole in fitting for 3/8" bolt. Field drill 7/16" hole in horizontal rail member. Provide washer and locknut for bolt. (Use 5/16" eyebolts in 7/16" holes on top rail at ends only.)
- ③ 3/16" type 304L stainless steel chain, approximately 12 links per foot.
- ④ Extrusions may be used in lieu of the details shown, with approval of the Engineer.

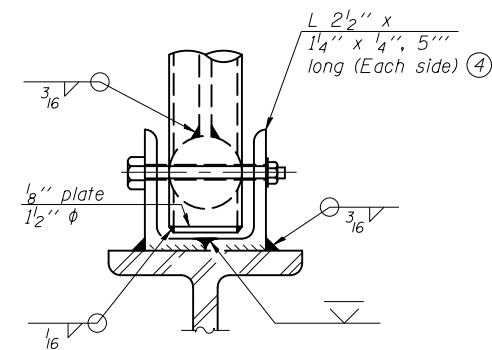


ALTERNATE SAFETY CHAIN ATTACHMENT

(With Sign Present)
Items not shown same as "Side Elevation" of "Handrail Details"

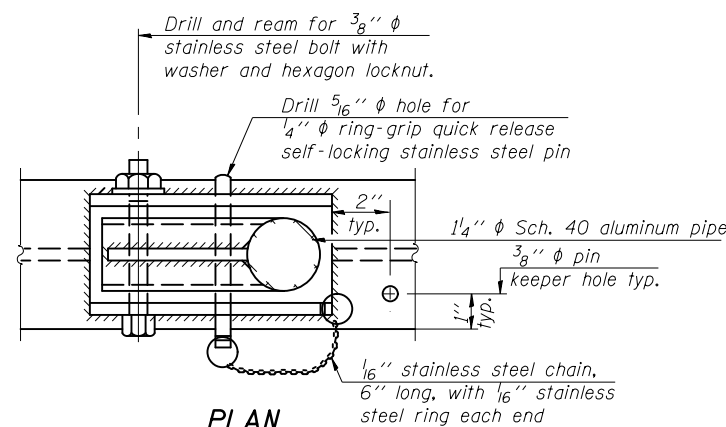


SIDE ELEVATION

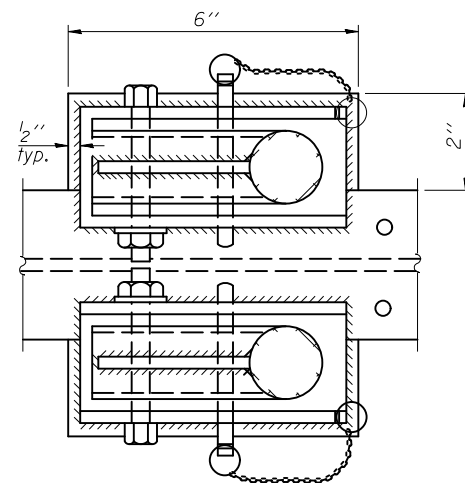


FRONT ELEVATION

See "ELEVATION" at right for dimensions.

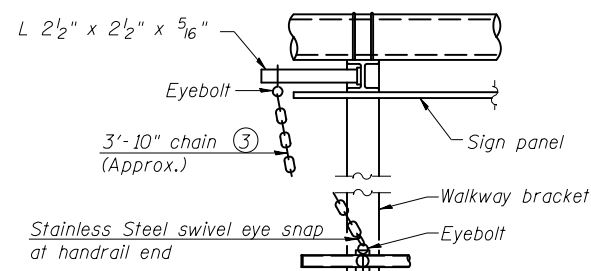


PLAN
DETAIL E HANDRAIL HINGE



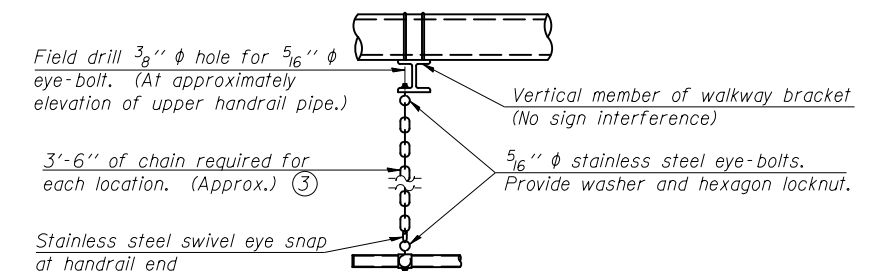
PLAN AT HANDRAIL JOINT

Details not shown same as "PLAN"



ALTERNATE SAFETY CHAIN ATTACHMENT

Details not shown similar to "Safety Chain" Details
(Walkway omitted for clarity)



SAFETY CHAIN

One required for each end of each walkway.

OS-A-11-DMS

6-1-12

FILE NAME =	USER NAME = ppersonbr	DESIGNED -	REVISED -
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		CHECKED -	REVISED -
		DATE -	REVISED -
MODELNAME	PLOT DATE = 10/17/2014		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
ALTERNATE ALUMINUM HANDRAIL DETAILS FOR DMS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	FY2015 ITS-1	VERMILION	73	33
CONTRACT NO. 70A66				
ILLINOIS FED. AID PROJECT				

BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape
v4(E)	24	#9	F less 5"	—
#4 bar spiral (E) - see Side Elevation				

NOTES:

The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.

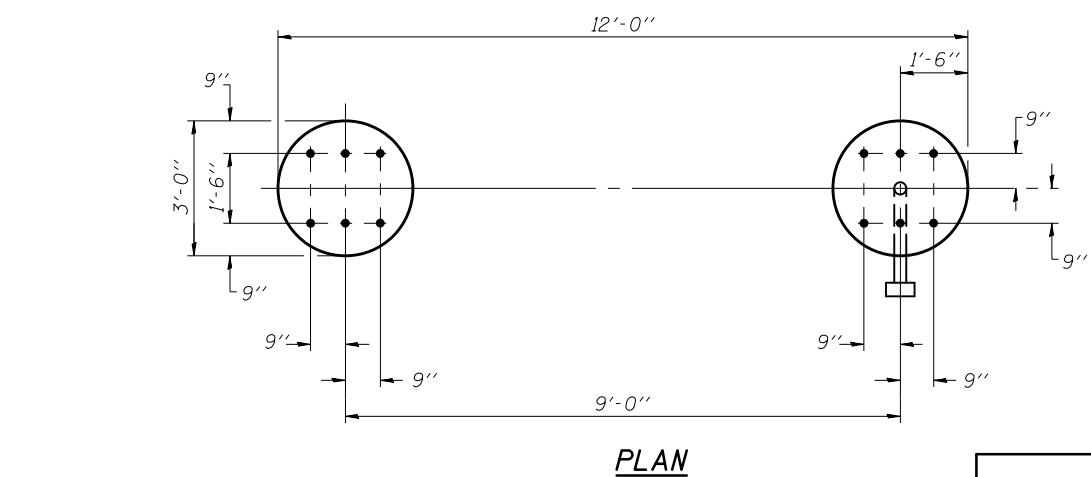
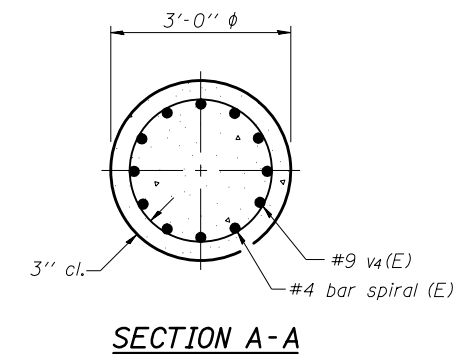
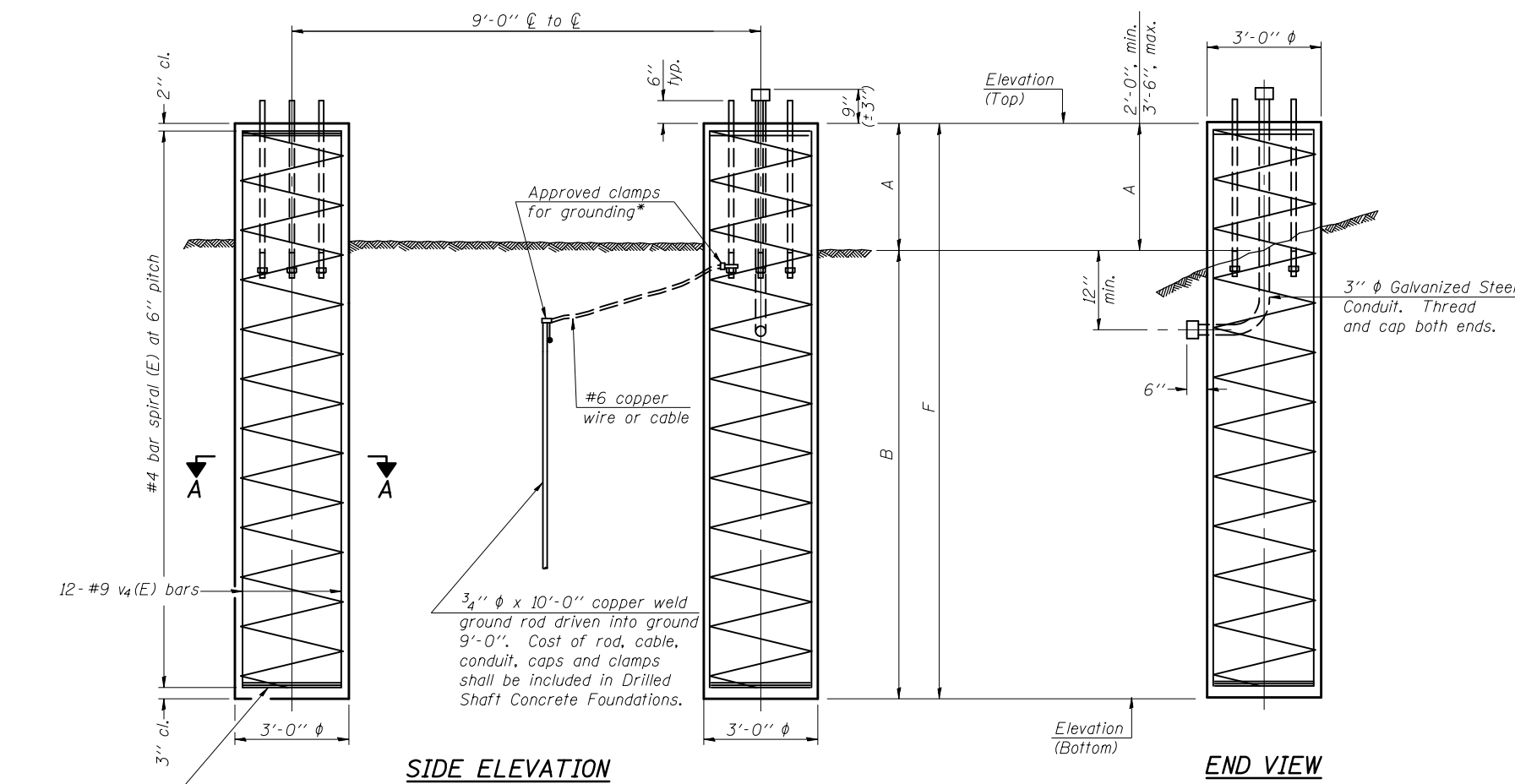
If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.



For anchor rod size and placement, see Support Frame Detail Sheet.

* Anchor rod shall be ground or filed to bright metal at clamp and cable connection location.

DETAILS FOR 12" Ø SUPPORT FRAME TYPE III-A TRUSS

Structure Number	Station	Left Foundation					Right Foundation					Class DS Concrete (Cu. Yds.)
		Elevation Top	Elevation Bottom	A	B	F	Elevation Top	Elevation Bottom	A	B	F	
5 S 092 1074 R207.63	1574+16	645.34	622.34	3'-0"	20'-0"	23'-0"	644.84	621.84	3'-0"	20'-0"	23'-0"	24.1
5 S 092 1074 L221.86	98+26	SEE BASE SHEETS OS4-MED FOR MEDIAN SUPPORT FOUNDATION DETAILS					634.82	609.65	2'-8"	22'-6"	25'-2"	13.18

OS4-F4

8-21-13

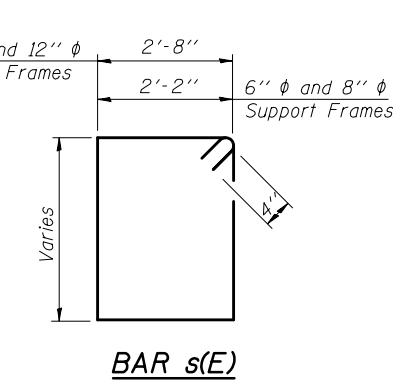
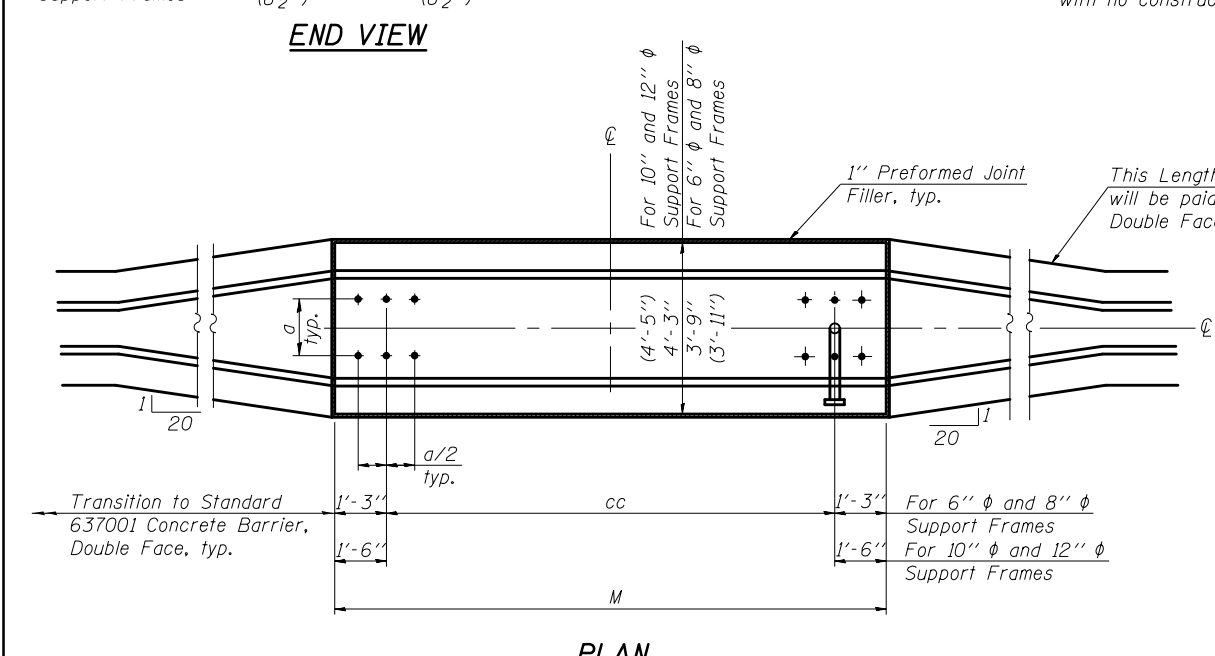
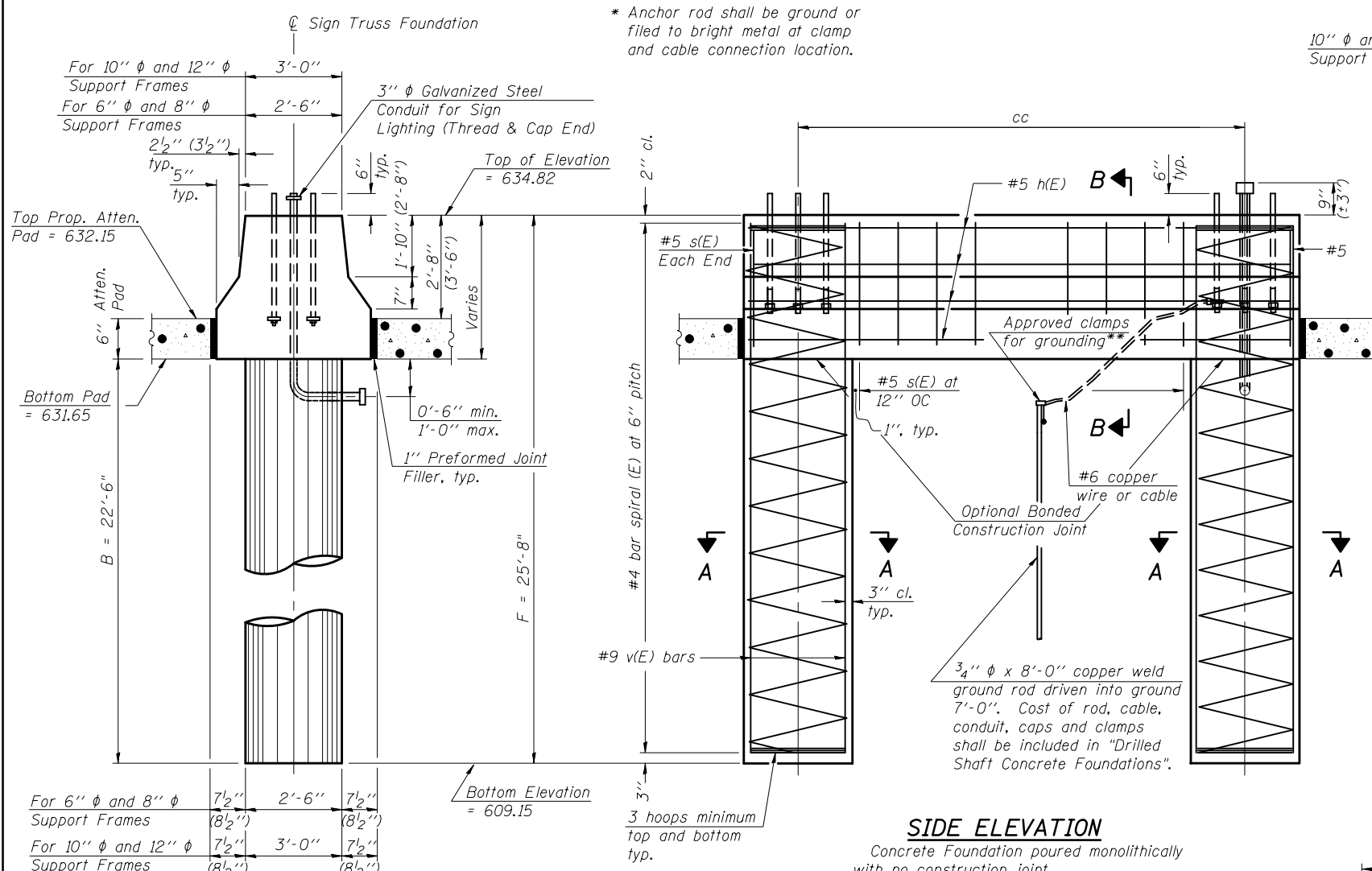
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		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES
DRILLED SHAFT DETAILS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	FY2015 ITS-1	VERMILION	73	34
CONTRACT NO. 70A66			ILLINOIS FED. AID PROJECT	

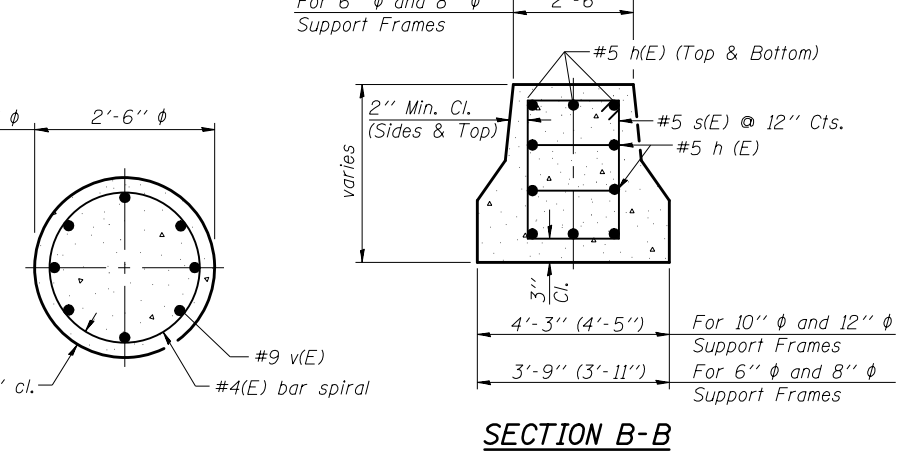
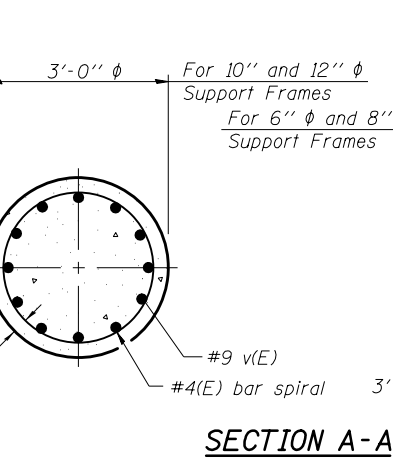


Bar	Number	Size	Length	Shape
h(E)	10	#5	M less 4"	—
s(E)	Varies	#5	Varies	□
v(E)	16	#9	F less 0'-5"	—
v(E)	24	#9	F less 0'-5"	—

#4(E) bar spiral - see Side Elevation

Pipe Support Frames	cc	M	a	a/2
6"φ	7'-0"	9'-6"	0'-11"	5 1/2"
8"φ	7'-6"	10'-0"	1'-1 1/2"	6 3/4"
10"φ	8'-3"	11'-3"	1'-3"	7 1/2"
12"φ	9'-0"	12'-0"	1'-6"	9"

All dimensions in parenthesis are for 42" high barrier.



Structure Number	Station	Left Foundation				Right Foundation				Class DS Concrete (Cu. Yds.)
		Elevation Top	Elevation Bottom	B	F	Elevation Top	Elevation Bottom	B	F	
5 S 092 1074 L221.86	98+26	634.82	609.15	22'-6"	25'-8"	SEE BASE SHEET OS4-F4 DRILLED SHAFT DETAILS				16.82
			631.65	Median Barrier Atten. Pad						

USE DIMENSIONS FOR 2'-8" BARRIER WALL AND 12" DIA. SUPPORT FRAME

NOTES:
 The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.
 If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.
 No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.
 Concrete shall be placed monolithically, without construction joints.
 Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.
 A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.

OS4-MED

8-21-13

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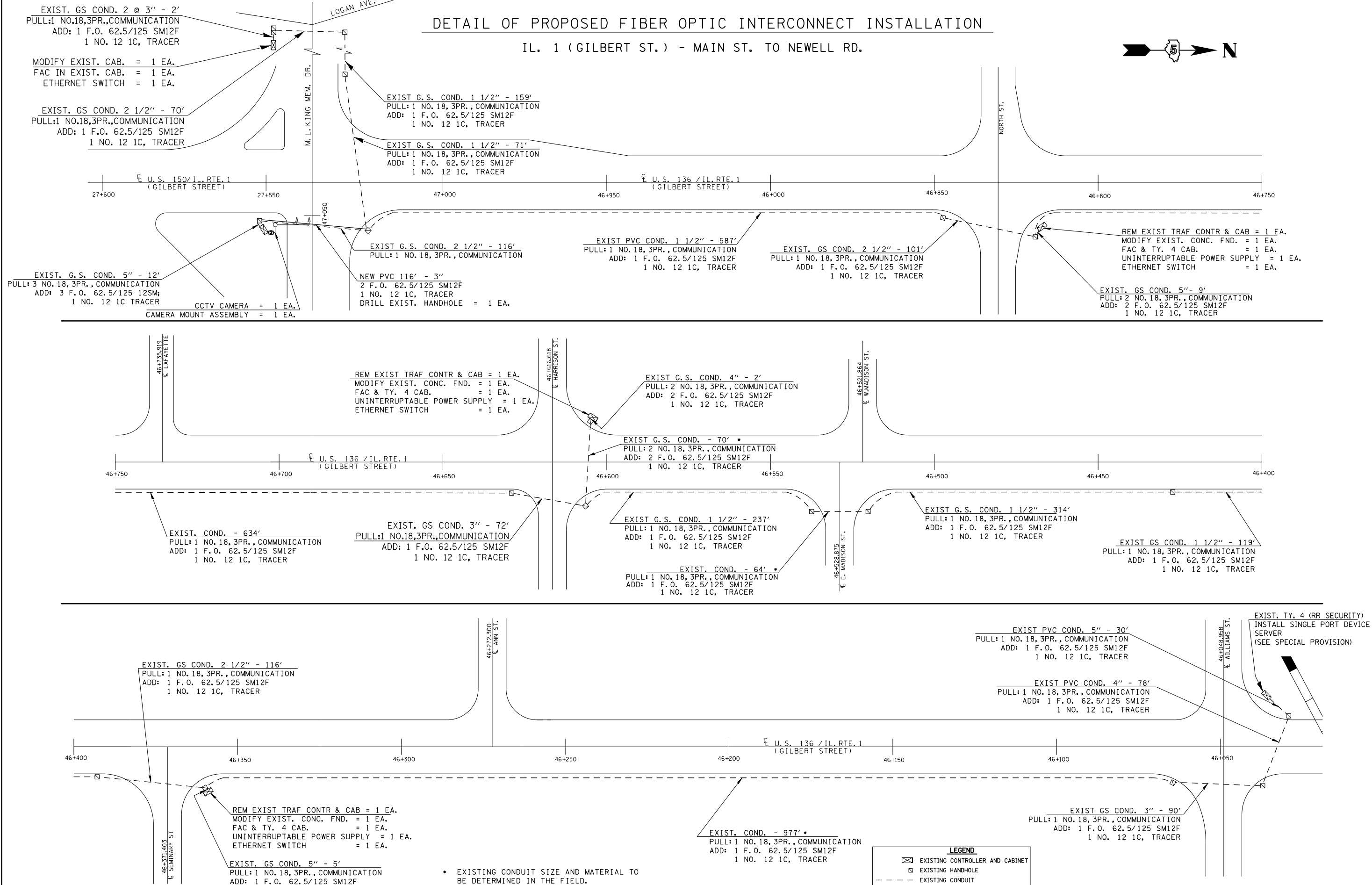
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
MEDIAN SUPPORT FOUNDATION DETAILS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	FY2015 ITS-1	VERMILION	73	35
CONTRACT NO. 70A66			ILLINOIS FED. AID PROJECT	

DETAIL OF PROPOSED FIBER OPTIC INTERCONNECT INSTALLATION

IL. 1 (GILBERT ST.) - MAIN ST. TO NEWELL RD.



• EXISTING CONDUIT SIZE AND MATERIAL TO BE DETERMINED IN THE FIELD.

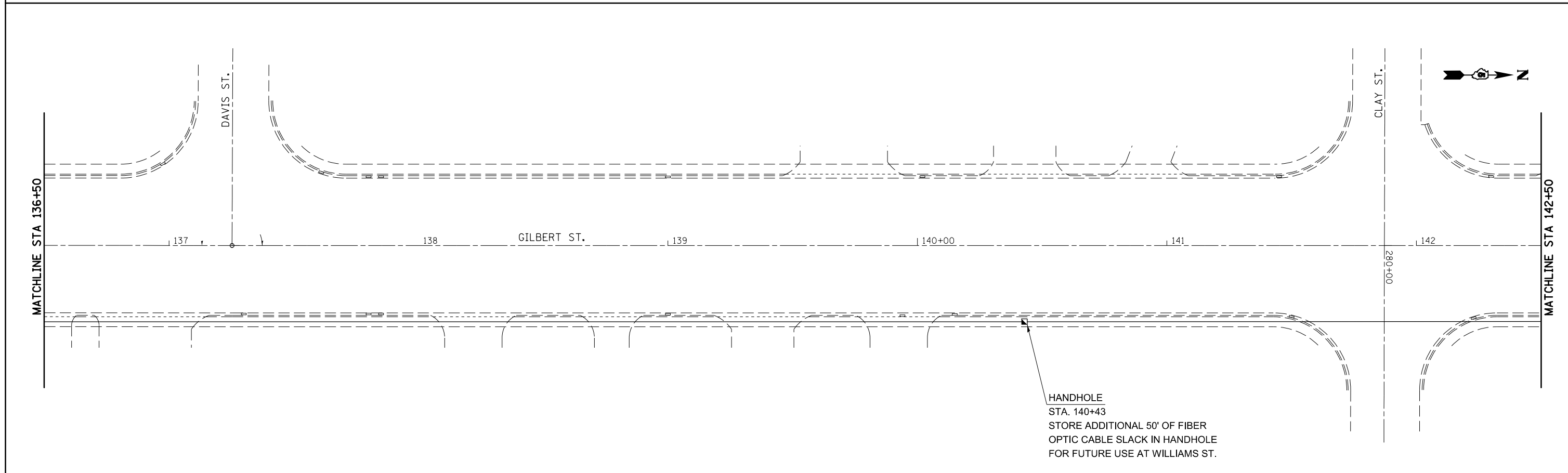
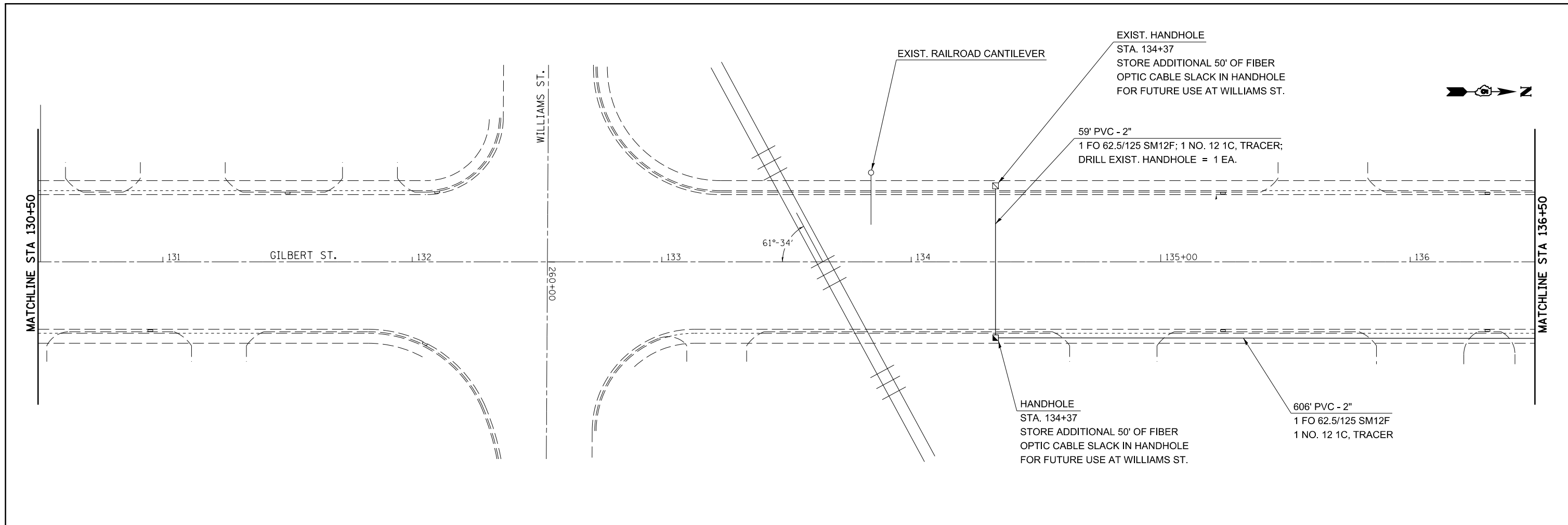
LEGEND	
	EXISTING CONTROLLER AND CABINET
	EXISTING HANDHOLE
	EXISTING CONDUIT

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camera and Fiber Optic working file.dgn		DRAWN - RDB	REVISED -
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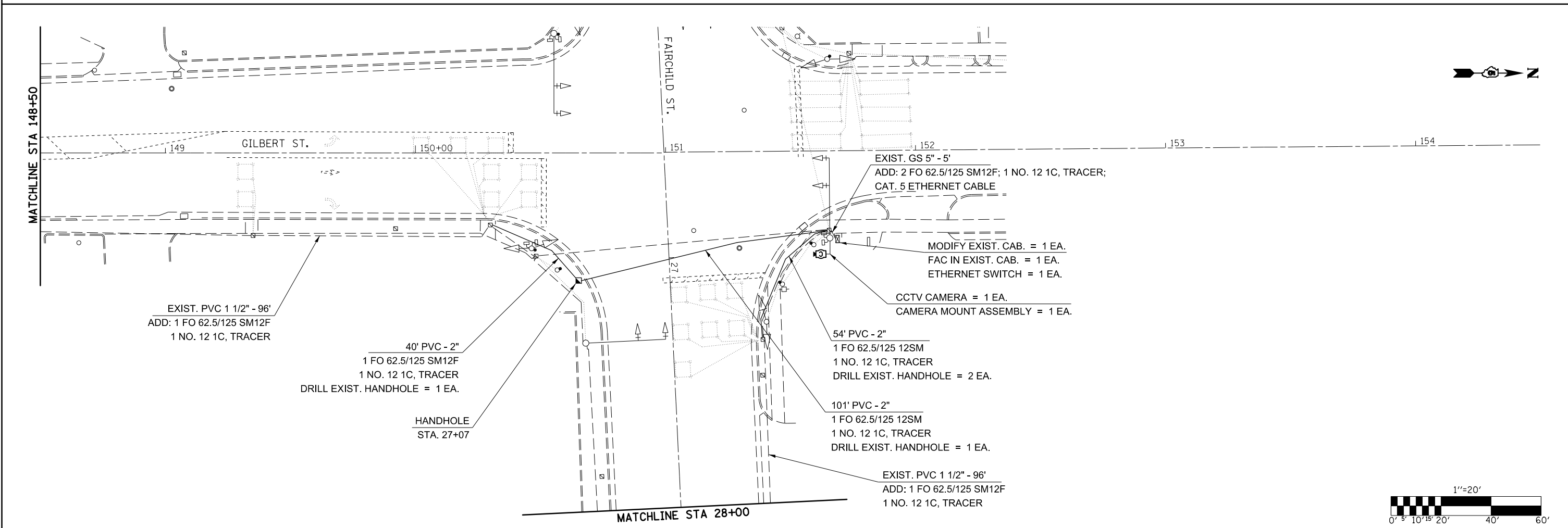
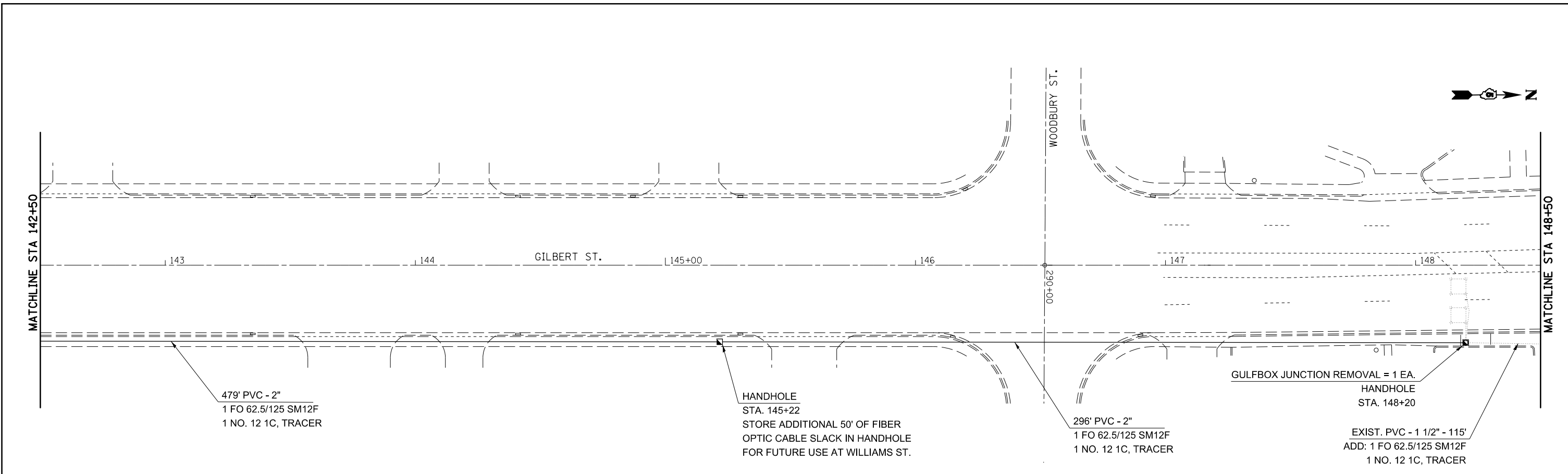
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE: SHEET OF SHEETS STA. TO STA.

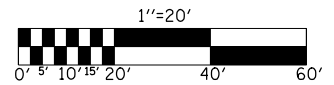
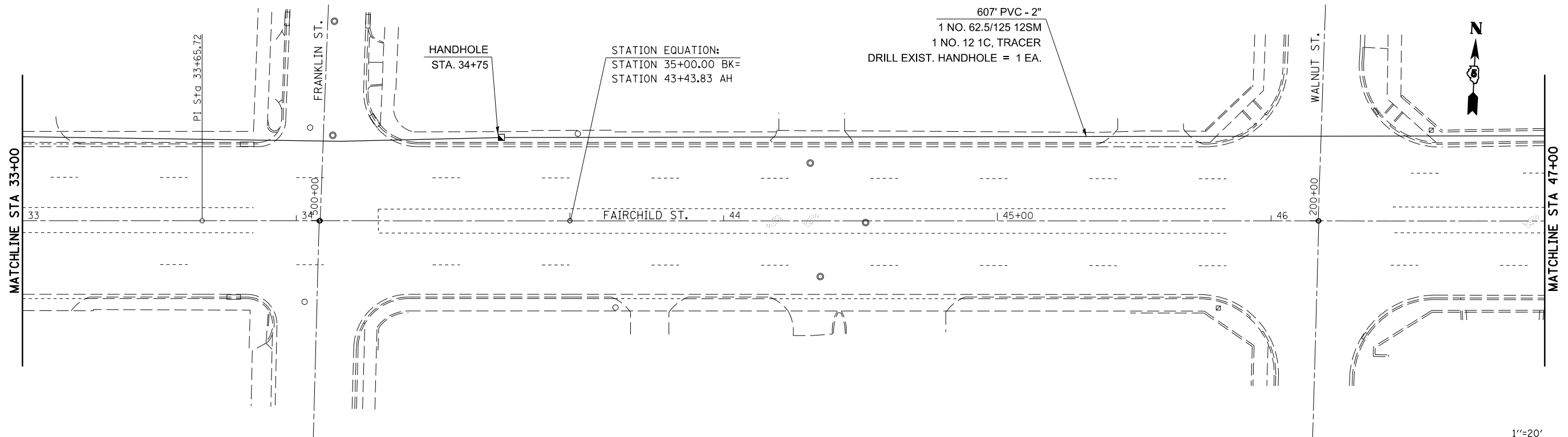
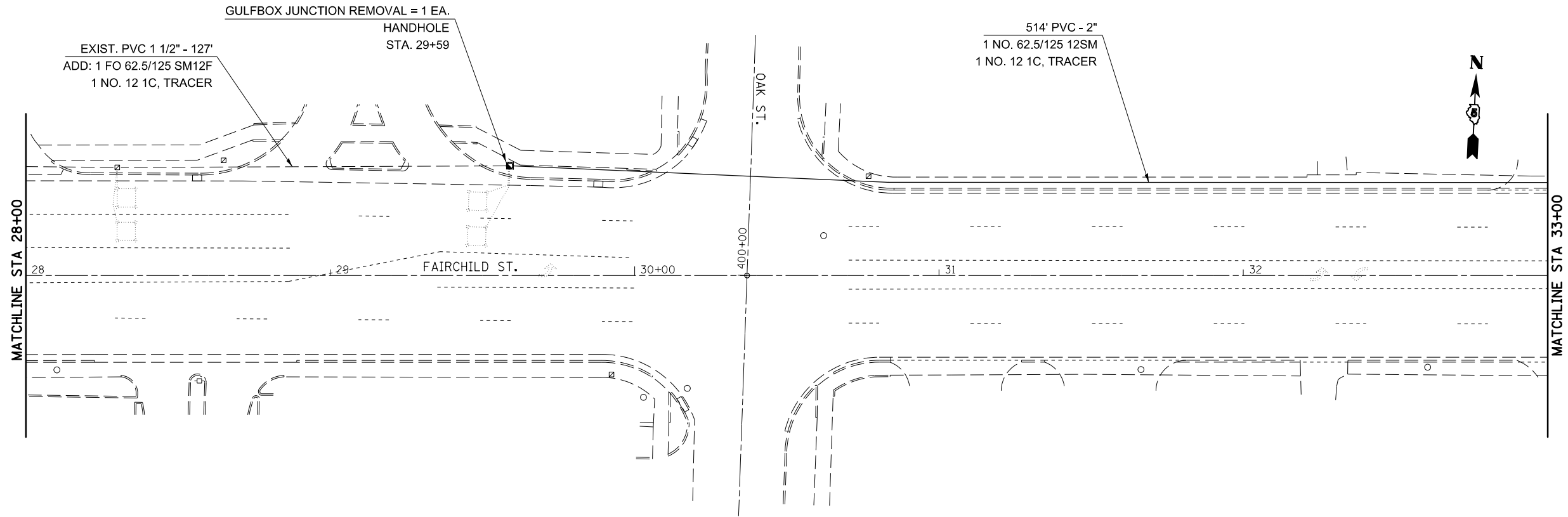
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VAR.	FY2015 ITS-1	VERMILION	73	36
CONTRACT NO. 70A66				
ILLINOIS FED. AID PROJECT				



FILE NAME =	USER NAME = ppersonbr	DESIGNED - RDB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIBER OPTIC CONDUIT AND CABLE LAYOUT			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 10/17/2014	DATE -	REVISED -		SCALE: 20	SHEET	OF	SHEETS	STA.	TO	STA.	



FILE NAME =	USER NAME = ppersonbr	DESIGNED - RDB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIBER OPTIC CONDUIT AND CABLE LAYOUT				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 10/17/2014	DATE -	REVISED -		ILLINOIS FED. AID PROJECT								



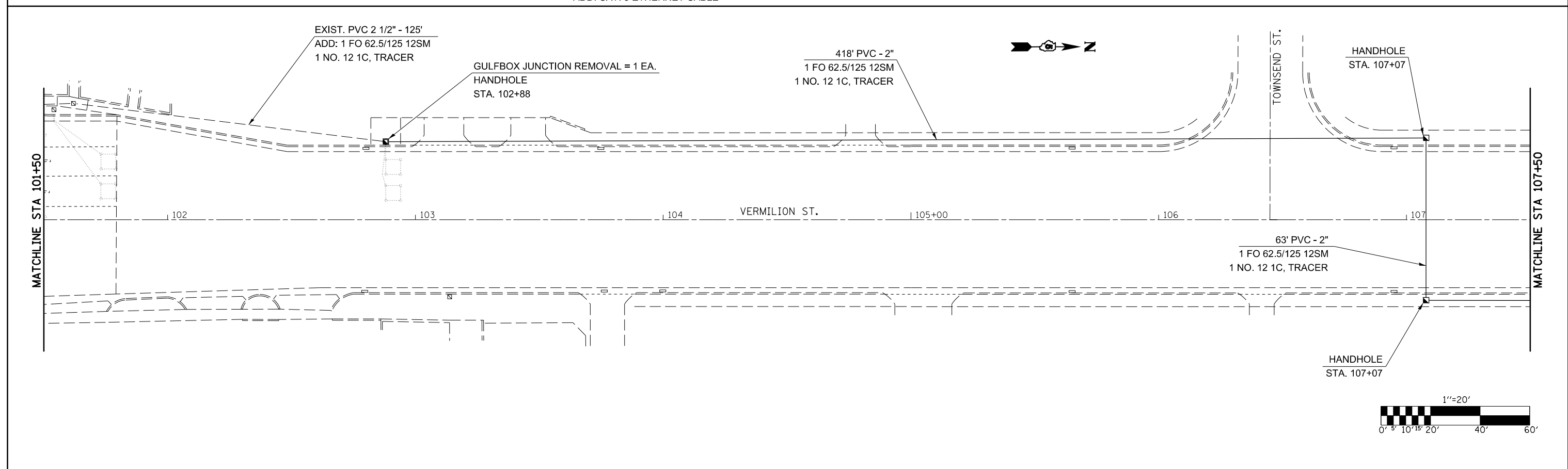
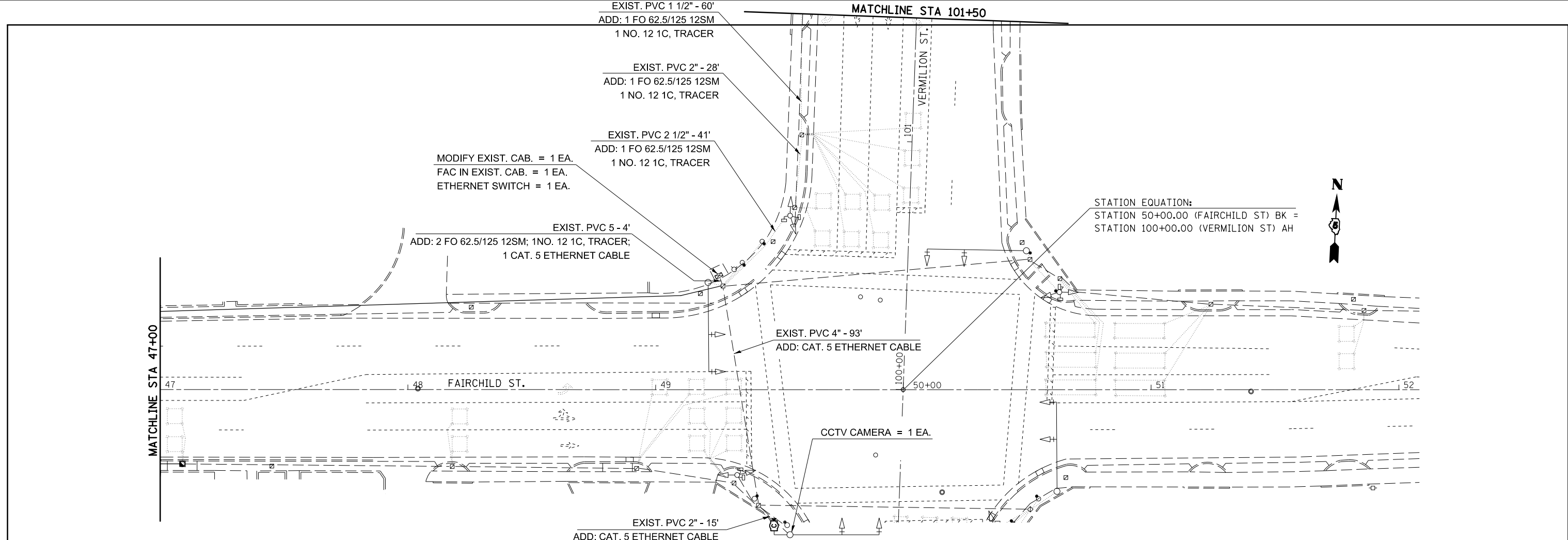
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CONDUIT
AND CABLE LAYOUT**

SCALE: 20 SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	FY2015 ITS-1	VERMILION	73	39
CONTRACT NO. 70A66			ILLINOIS FED. AID PROJECT	



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	PLOT DATE = 10/17/2014	DATE -	REVISED -								ILLINOIS FED. AID PROJECT		



MODIFY EXIST. CAB. = 1 EA.
 FAC IN EXIST. CAB. = 1 EA.
 ETHERNET SWITCH = 1 EA.

EXIST. GS 2 @ 4" - 4'
 ADD: 1 FO 62.5/125 12SM
 1 NO. 12 1C, TRACER

EXIST. GS 4" - 81'
 ADD: 1 FO 62.5/125 12SM
 1 NO. 12 1C, TRACER

EXIST. GS 1 1/2" - 159'
 ADD: 1 FO 62.5/125 12SM
 1 NO. 12 1C, TRACER

EXIST. GS 3" - 71'
 ADD: 1 FO 62.5/125 12SM
 1 NO. 12 1C, TRACER

210' PVC - 2"
 1 FO 62.5/125 12SM
 1 NO. 12 1C, TRACER

GULFBOX JUNCTION REMOVAL = 1 EA.
 HANDHOLE
 STA. 109+19

EXIST. GS 1 1/2" - 127'
 ADD: 1 FO 62.5/125 12SM
 1 NO. 12 1C, TRACER

GULFBOX JUNCTION REMOVAL = 1 EA.
 HANDHOLE
 STA. 111+00

EXIST. GS 1 1/2" - 165'
 ADD: 1 FO 62.5/125 12SM
 1 NO. 12 1C, TRACER

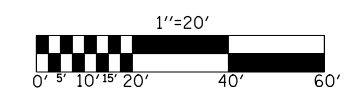
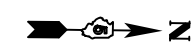
GULFBOX JUNCTION REMOVAL = 1 EA.
 HANDHOLE
 STA. 114+95

EXIST. GS 1 1/2" - 149'
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 1 NO. 12 1C, TRACER

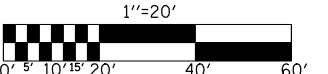
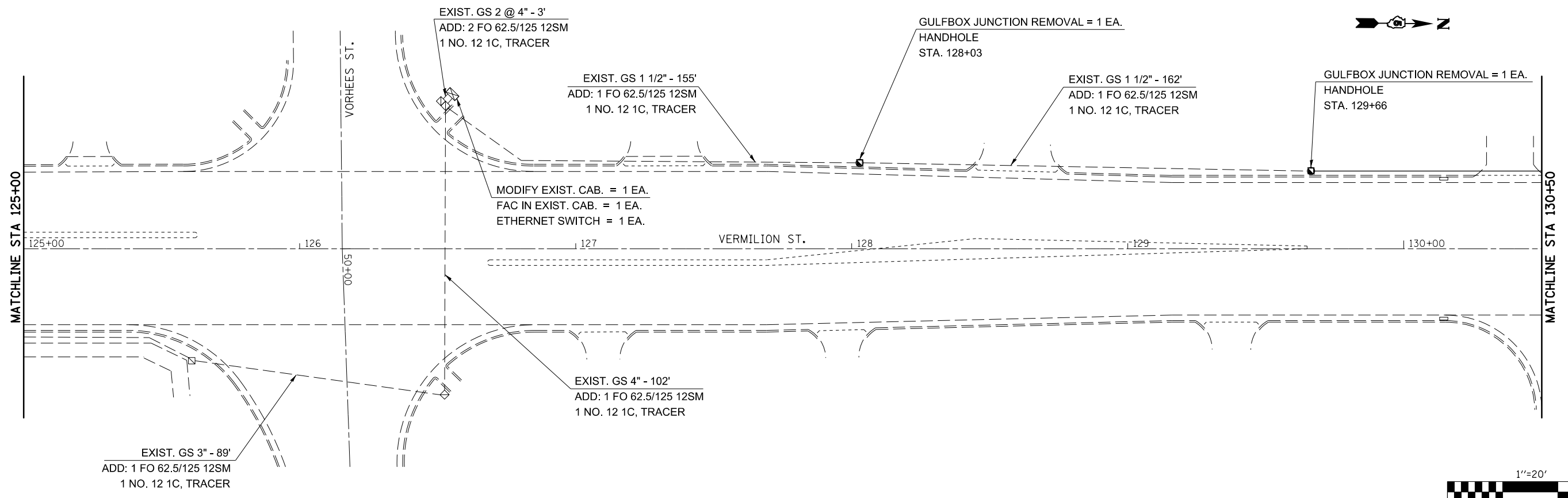
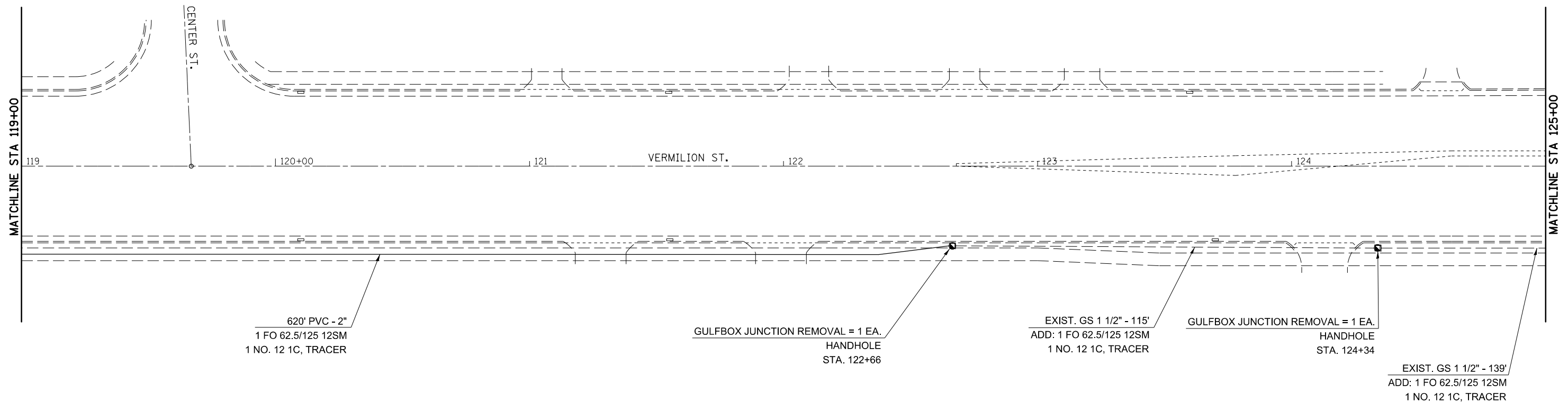
GULFBOX JUNCTION REMOVAL = 1 EA.
 HANDHOLE
 STA. 116+43

69' PVC - 2"
 1 FO 62.5/125 12SM
 1 NO. 12 1C, TRACER

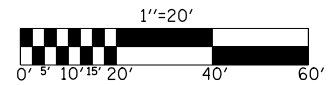
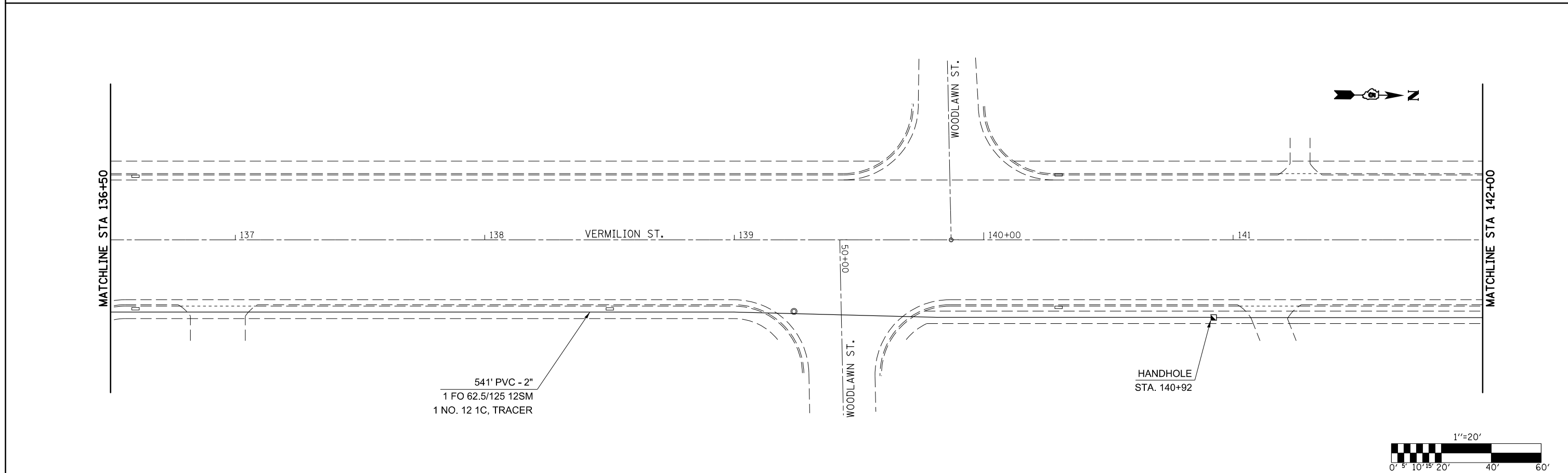
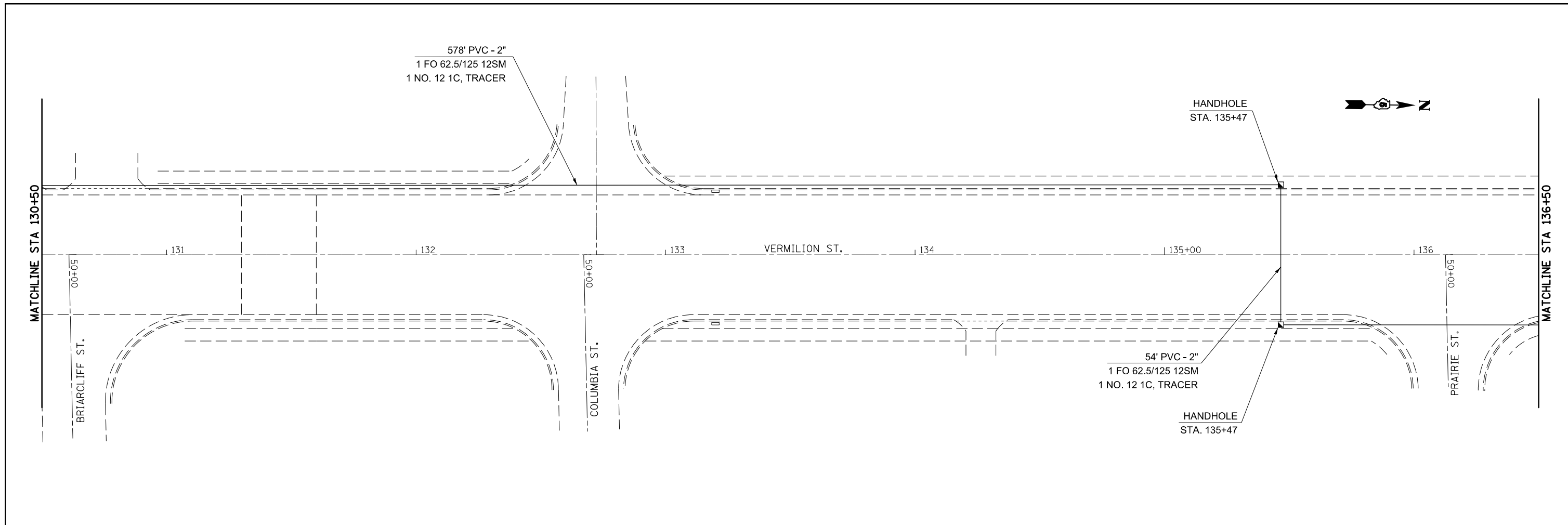
HANDHOLE
 STA. 116+43



FILE NAME =	USER NAME = ppersonbr	DESIGNED - RDB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIBER OPTIC CONDUIT AND CABLE LAYOUT				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ei:\pw_work\pwidot\ppersonbr\d0485929\PTZ camera and Fiber Optic working file.dgn	PLOT SCALE = 40.0000' / in.	DRAWN - RDB	REVISED -						VAR.	FY2015 ITS-1	VERMILION	73	41
\$MODELNAME\$	PLOT DATE = 10/17/2014	CHECKED -	REVISED -		SCALE: 20 SHEET OF SHEETS STA. TO STA.				CONTRACT NO. 70A66				
		DATE -	REVISED -		ILLINOIS FED. AID PROJECT								



FILE NAME =	USER NAME = piersonbr	DESIGNED - RDB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIBER OPTIC CONDUIT AND CABLE LAYOUT				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ei:\pw_work\pwidot\piersonbr\d0405929\PTZ camera and Fiber Optic working file.dgn		DRAWN - RDB	REVISED -		SCALE: 20	SHEET	OF	SHEETS	STA.	TO	STA.	73	42	
\$MODELNAME\$	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -									VERMILION	73	42
	PLOT DATE = 10/17/2014	DATE -	REVISED -									CONTRACT NO. 70A66		

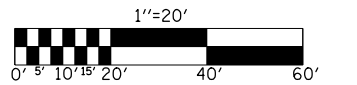
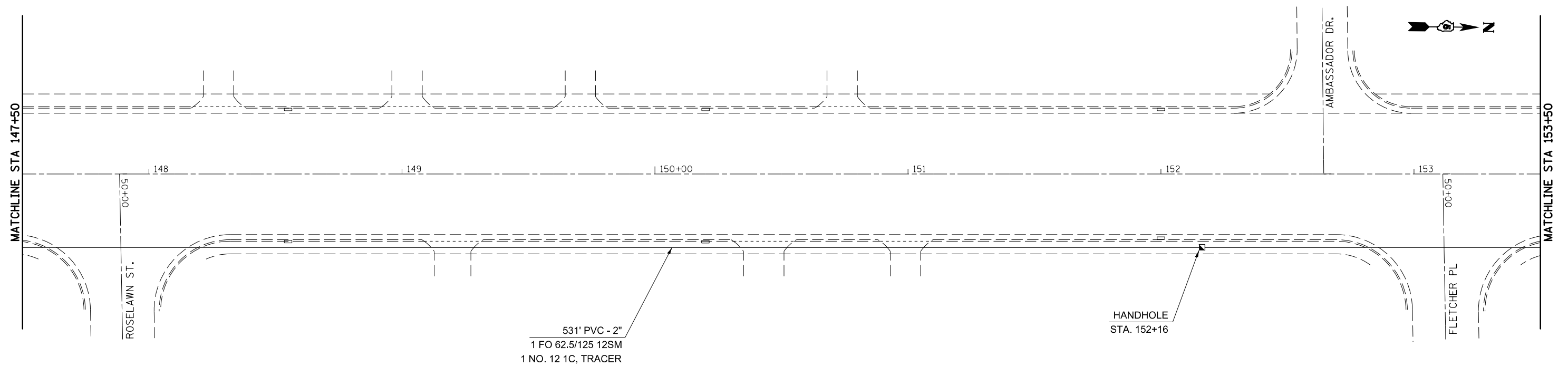
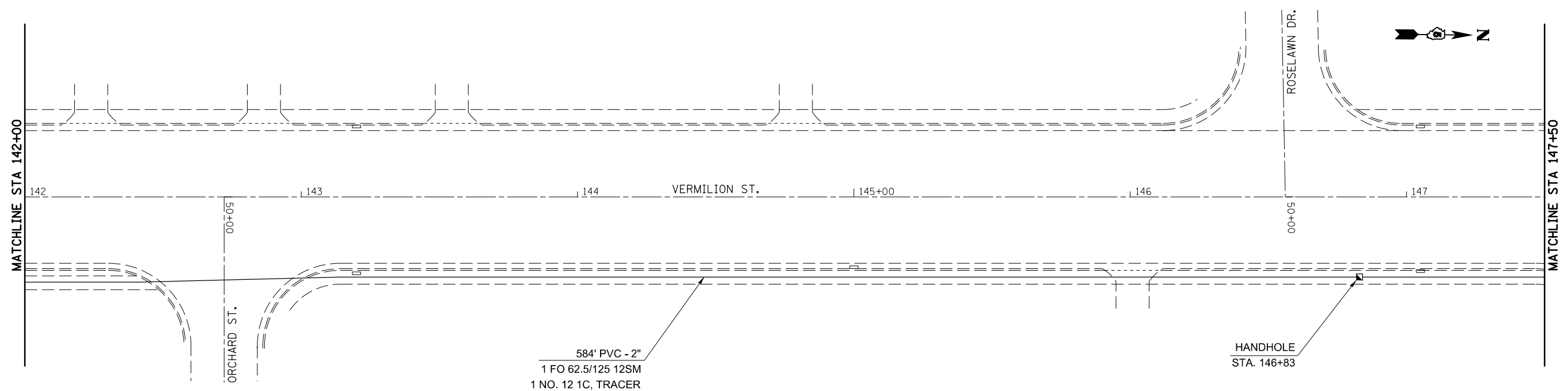


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	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
MODELNAME	PLOT DATE = 10/17/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FIBER OPTIC CONDUIT AND CABLE LAYOUT		SCALE: 20	SHEET	OF	SHEETS	STA.	TO	STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	FY2015 ITS-1	VERMILION	73	43
CONTRACT NO. 70A66			ILLINOIS FED. AID PROJECT	



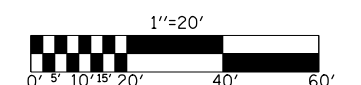
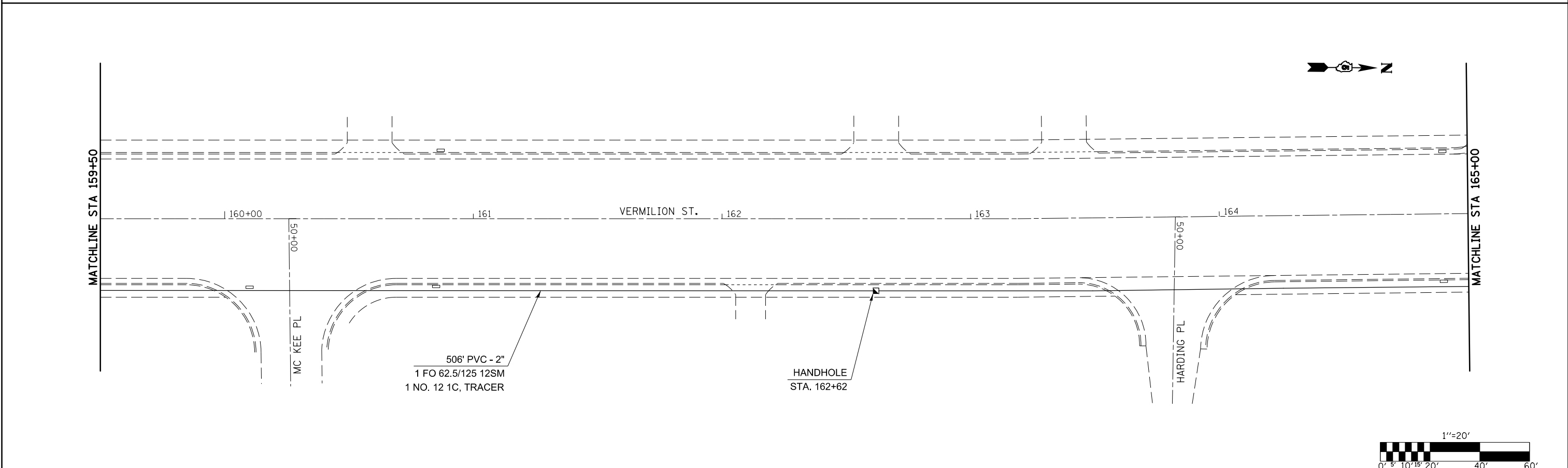
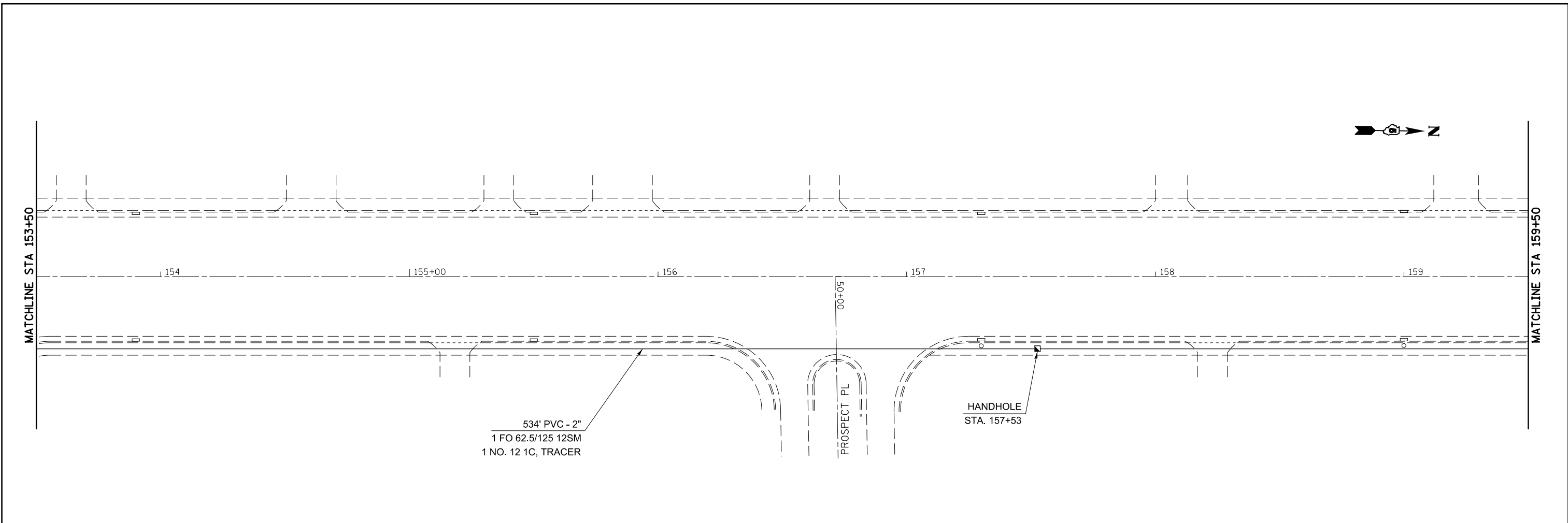
FILE NAME =	USER NAME = ppersonbr	DESIGNED - RDB	REVISED -
c:\pwork\pwork\personbr\d0405929\PTZ camera and Fiber Optic working file.dgn		DRAWN - RDB	REVISED -
\$MODELNAME\$	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/17/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CONDUIT
AND CABLE LAYOUT**

SCALE: 20 SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	FY2015 ITS-1	VERMILION	73	44
CONTRACT NO. 70A66			ILLINOIS FED. AID PROJECT	

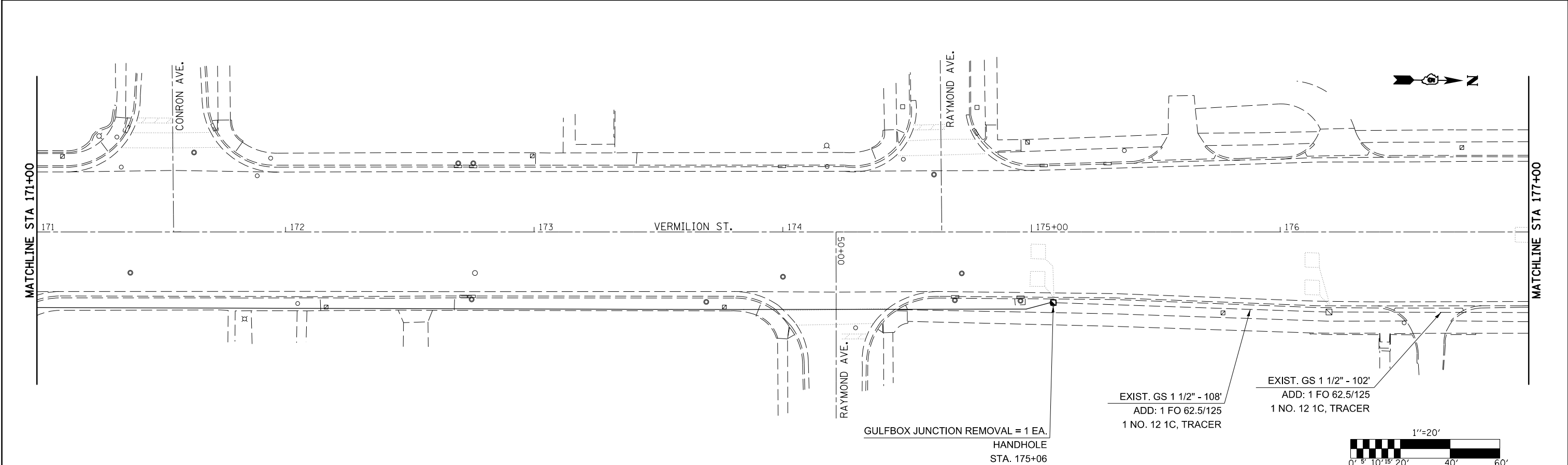
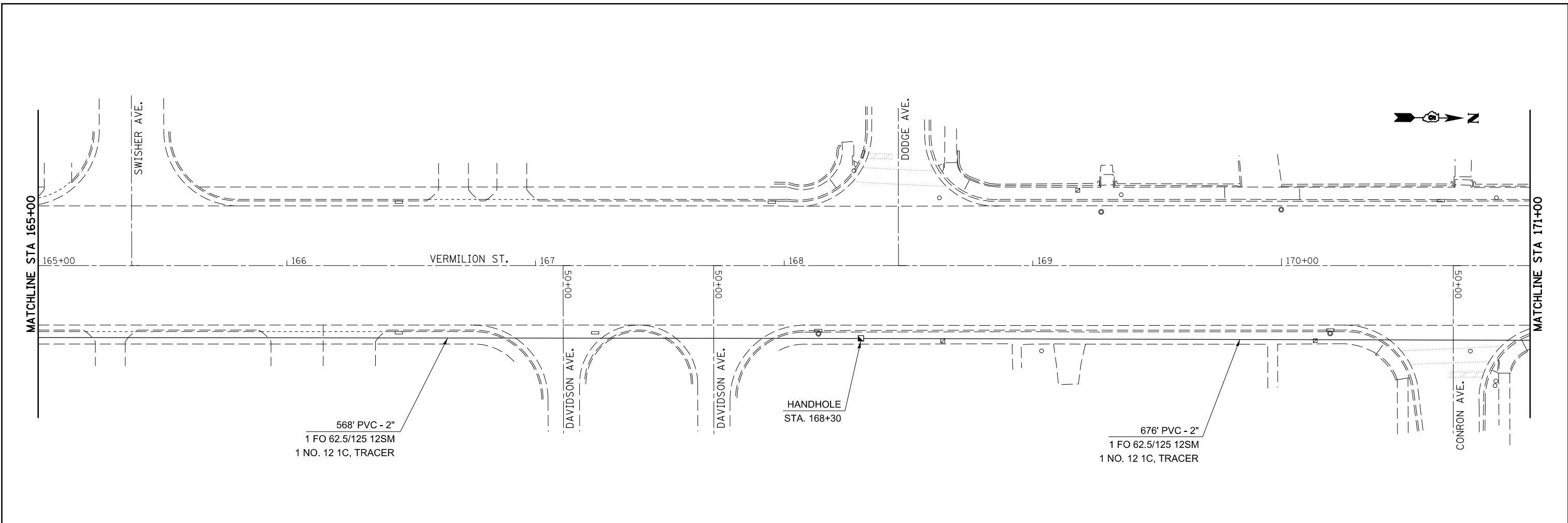


FILE NAME =	USER NAME = piersonbr	DESIGNED - RDB	REVISED -
c:\pwork\pwork\piersonbr\d0405929\PTZ camera and Fiber Optic working file.dgn		DRAWN - RDB	REVISED -
\$MODELNAME\$	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/17/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE: 20		SHEET		OF		SHEETS		STA.	TO STA.
		FIBER OPTIC CONDUIT AND CABLE LAYOUT							

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	FY2015 ITS-1	VERMILION	73	45
CONTRACT NO. 70A66			ILLINOIS FED. AID PROJECT	

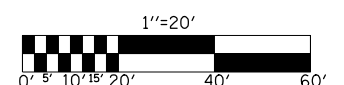


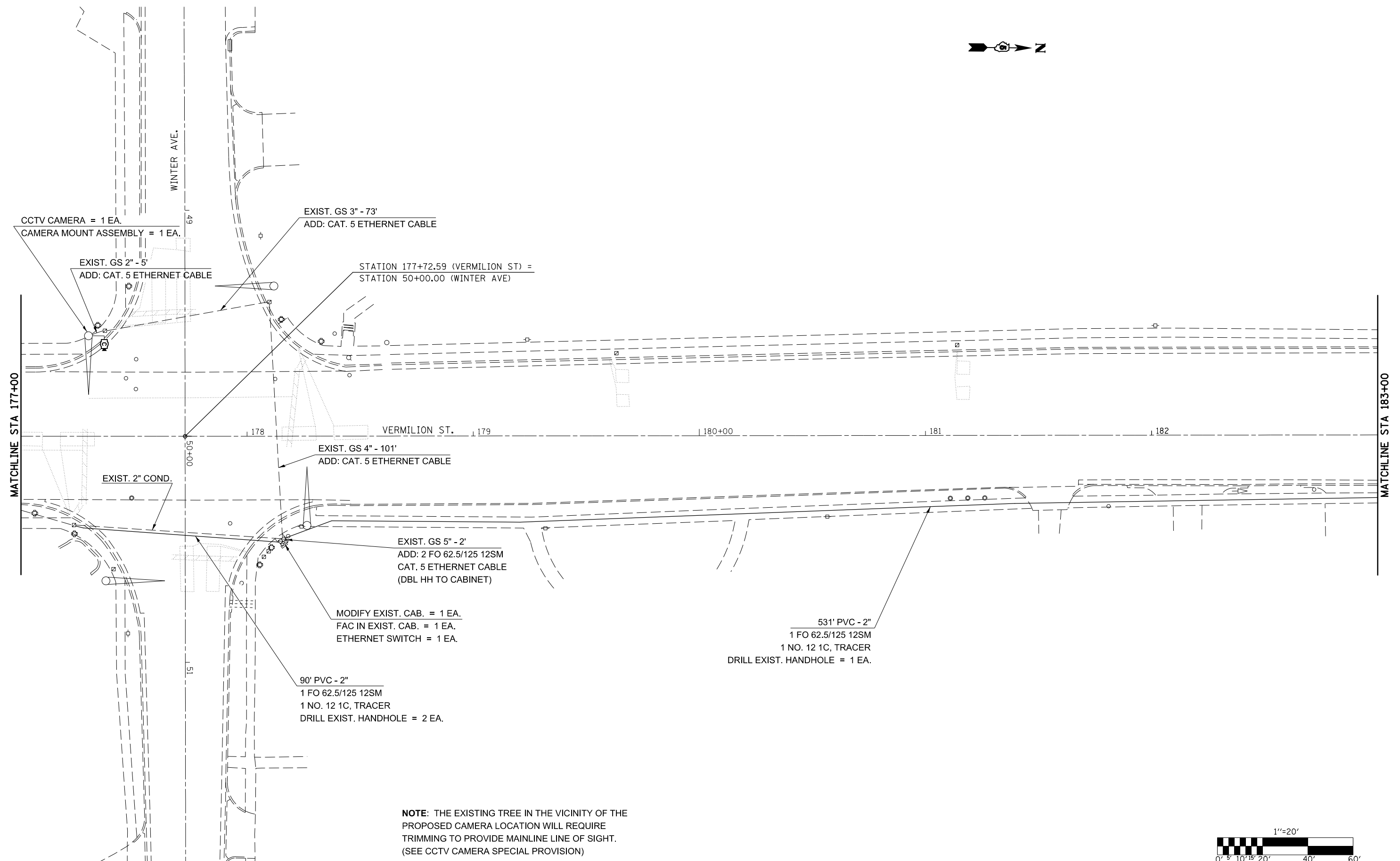
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ei:\pw_work\puidot\piersonbr\d0405929\PTZ	camera and Fiber Optic working file.dgn	DRAWN - RDB	REVISED -
\$MODELNAME\$	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/17/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

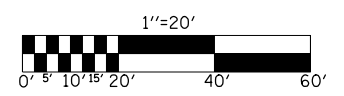
FIBER OPTIC CONDUIT AND CABLE LAYOUT	
SCALE: 20	SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	FY2015 ITS-1	VERMILION	73	46
CONTRACT NO. 70A66				
ILLINOIS FED. AID PROJECT				

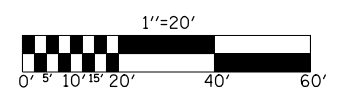
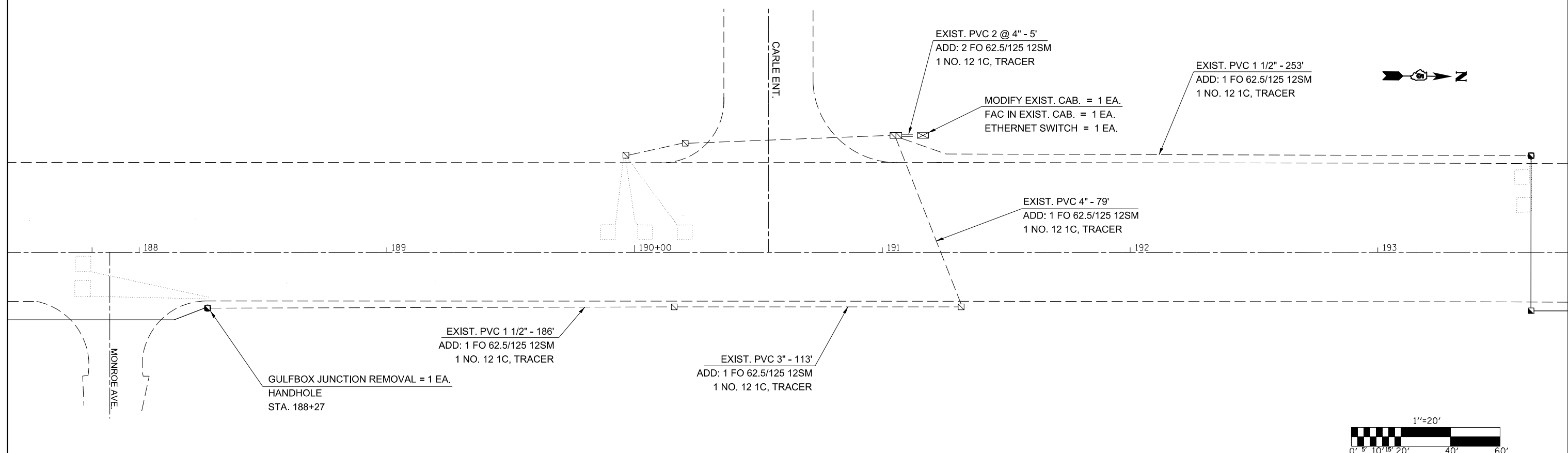
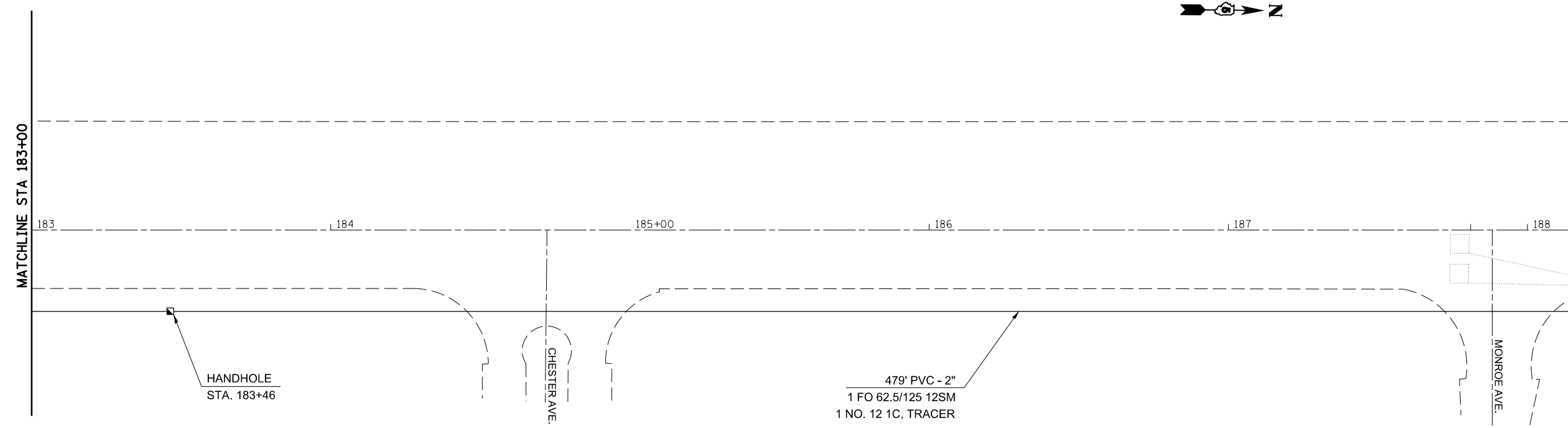




NOTE: THE EXISTING TREE IN THE VICINITY OF THE PROPOSED CAMERA LOCATION WILL REQUIRE TRIMMING TO PROVIDE MAINLINE LINE OF SIGHT. (SEE CCTV CAMERA SPECIAL PROVISION)



FILE NAME =	USER NAME = piersonbr	DESIGNED - RDB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIBER OPTIC CONDUIT AND CABLE LAYOUT				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ei:\pw\work\pwidot\piersonbr\d0405929\PTZ camera and Fiber Optic working file.dgn	PLOT SCALE = 40.0000' / in.	DRAWN - RDB	REVISED -						VAR.	FY2015 ITS-1	VERMILION	73	47
\$MODELNAME\$	PLOT DATE = 10/17/2014	CHECKED -	REVISED -		SCALE: 20 SHEET OF SHEETS STA. TO STA.				CONTRACT NO. 70A66				
		DATE -	REVISED -		ILLINOIS FED. AID PROJECT								



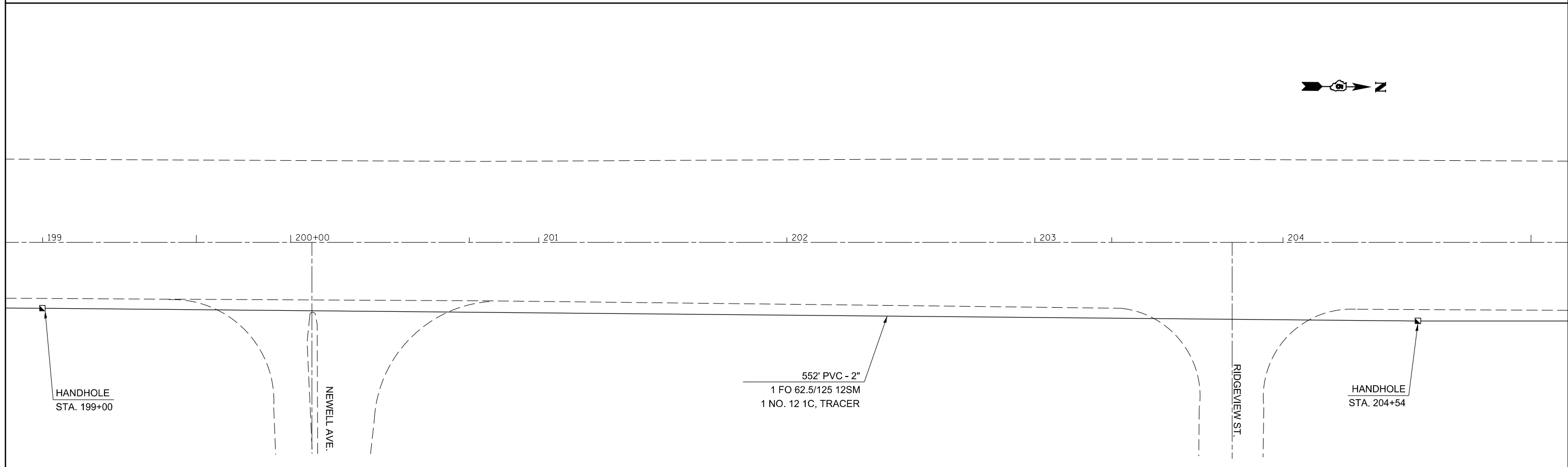
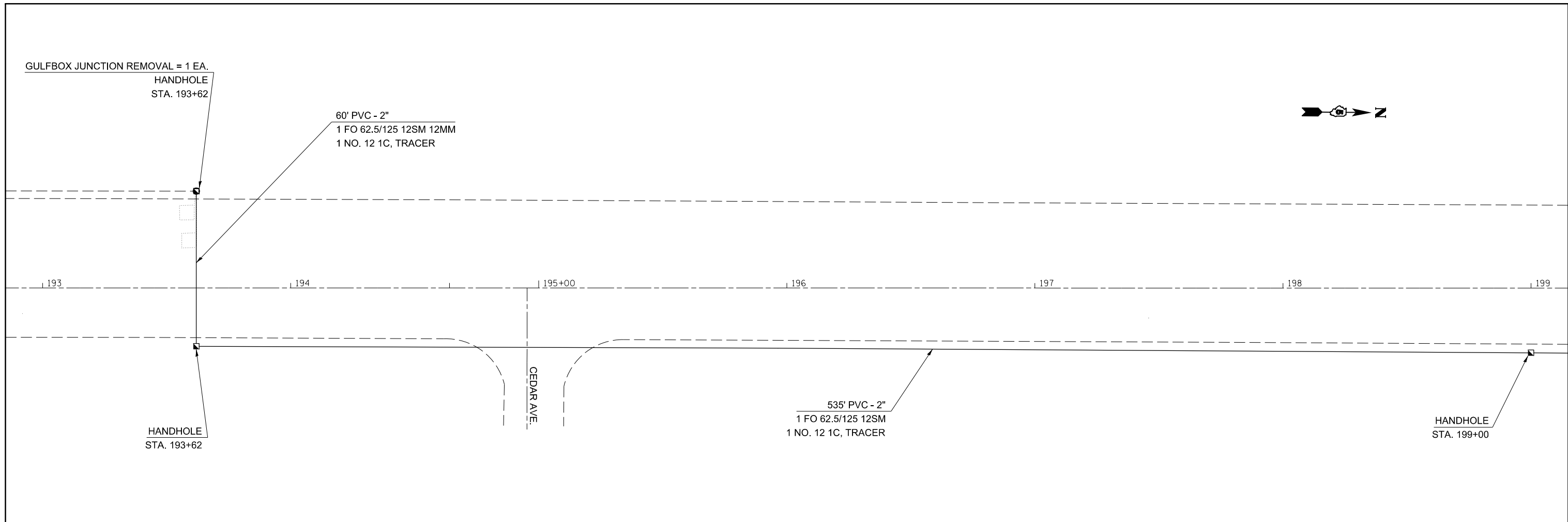
FILE NAME =	USER NAME = piersonbr	DESIGNED - RDB	REVISED -
ei:\pwork\pwork\piersonbr\d0405929\PTZ camera and Fiber Optic working file.dgn		DRAWN - RDB	REVISED -
\$MODELNAME\$	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/17/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

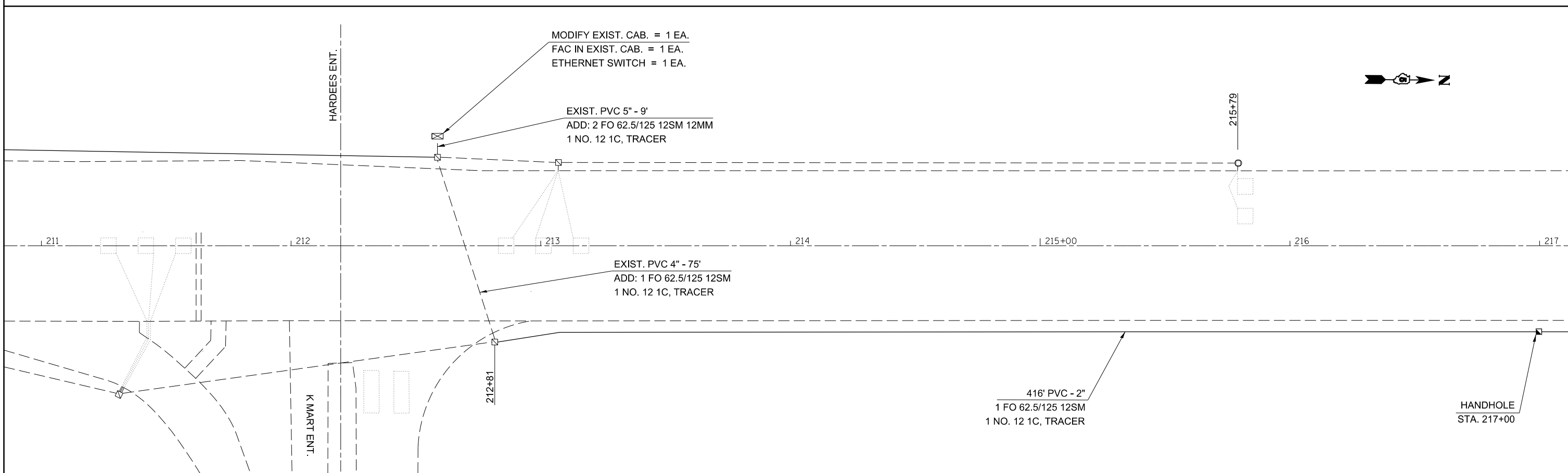
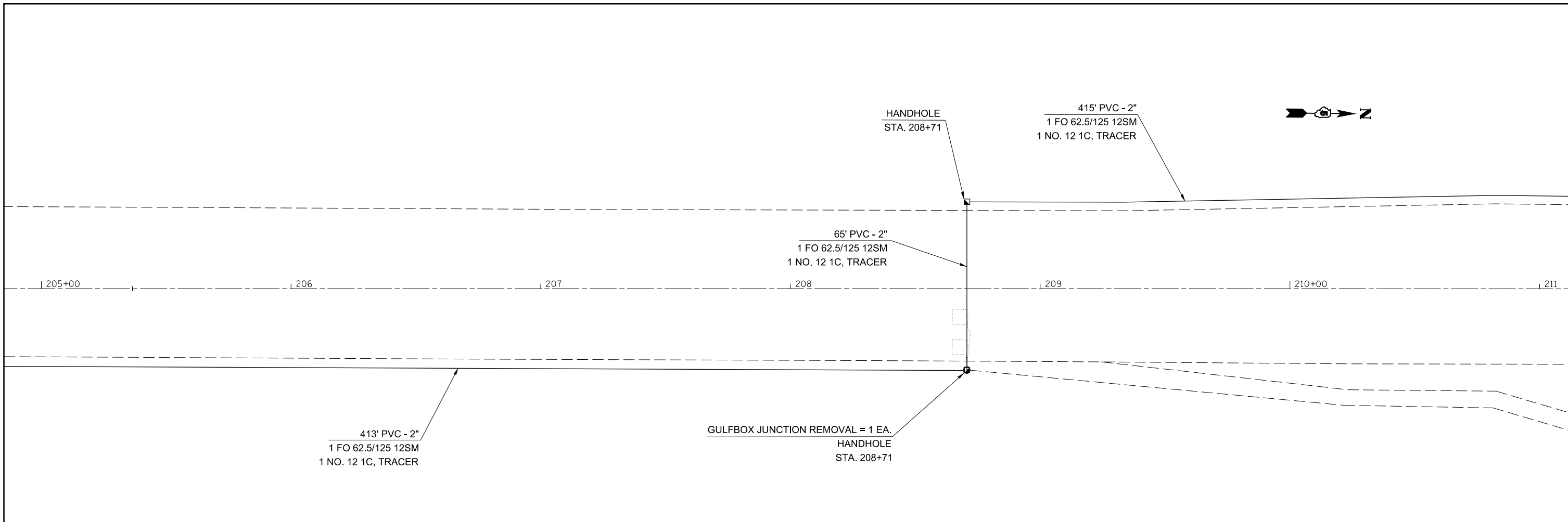
**FIBER OPTIC CONDUIT
AND CABLE LAYOUT**

SCALE: 20 SHEET OF SHEETS STA. TO STA.

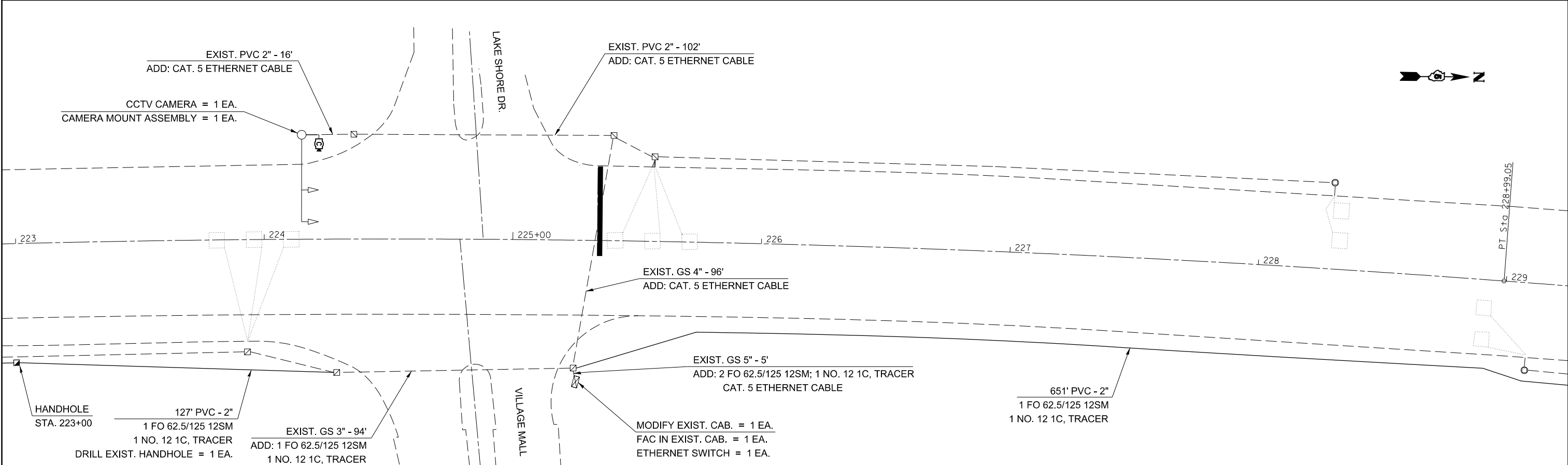
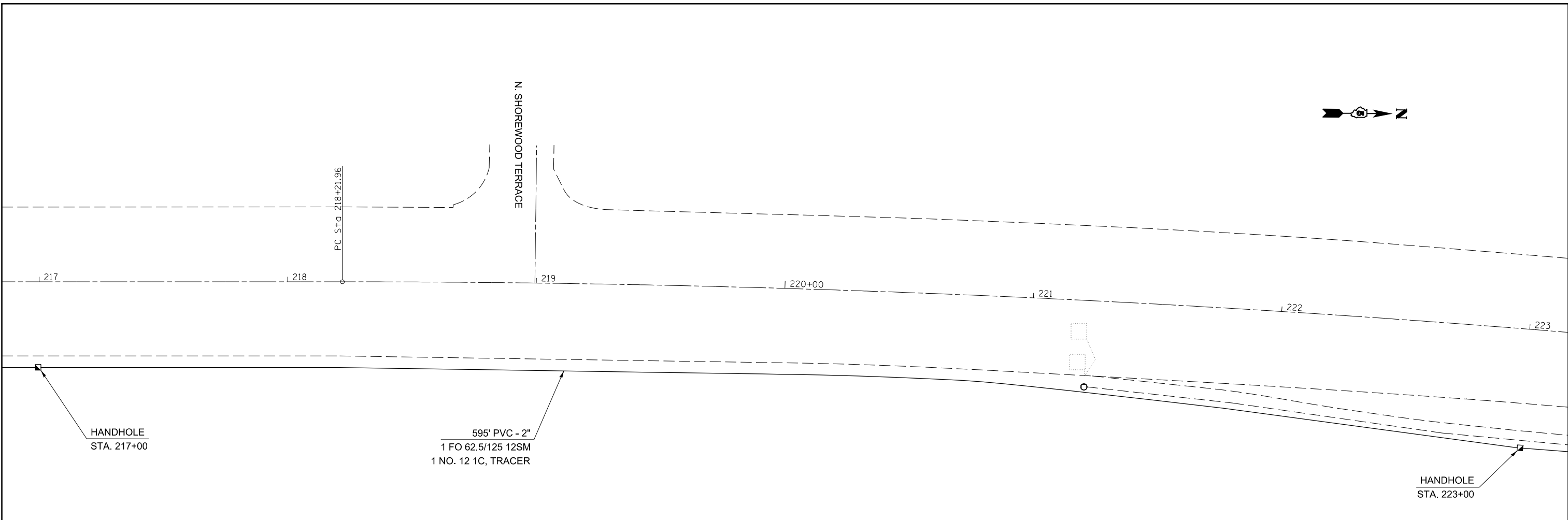
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	FY2015 ITS-1	VERMILION	73	48
CONTRACT NO. 70A66			ILLINOIS FED. AID PROJECT	



FILE NAME =	USER NAME = ppersonbr	DESIGNED - RDB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIBER OPTIC CONDUIT AND CABLE LAYOUT				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et:\pw\work\p\pidot\ppersonbr\d0405929\PTZ camera and Fiber Optic working file.dgn	DRAWN - RDB	REVISED -	REVISED -						VAR.	FY2015 ITS-1	VERMILION	73	49
MODELNAME	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -		CONTRACT NO. 70A66				ILLINOIS FED. AID PROJECT				
	PLOT DATE = 10/17/2014	DATE -	REVISED -		SCALE: 20	SHEET	OF	SHEETS	STA.	TO	STA.		



FILE NAME =	USER NAME = piersonbr	DESIGNED - RDB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIBER OPTIC CONDUIT AND CABLE LAYOUT			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et:\pwork\pwork\piersonbr\d0405929\PTZ camera and Fiber Optic working file.dgn	PLOT SCALE = 40.0000' / in.	DRAWN - RDB	REVISED -					VAR.	FY2015 ITS-1	VERMILION	73	50
\$MODELNAME\$	PLOT DATE = 10/17/2014	CHECKED -	REVISED -		CONTRACT NO. 70A66			ILLINOIS FED. AID PROJECT				
		DATE -	REVISED -		SCALE: 20	SHEET	OF	SHEETS	STA.	TO	STA.	



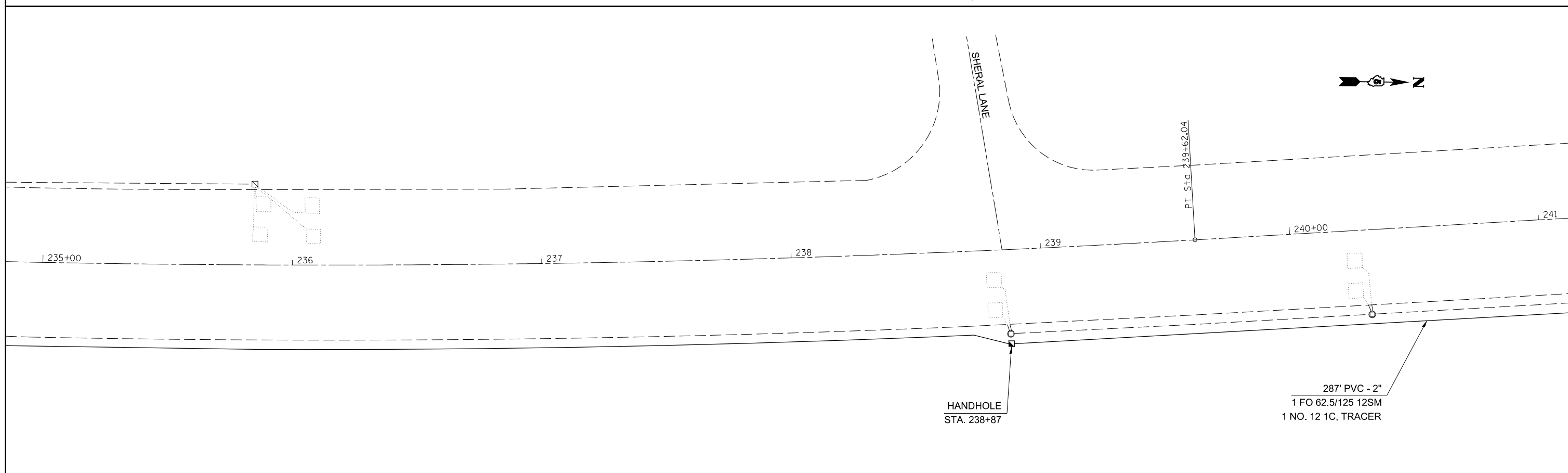
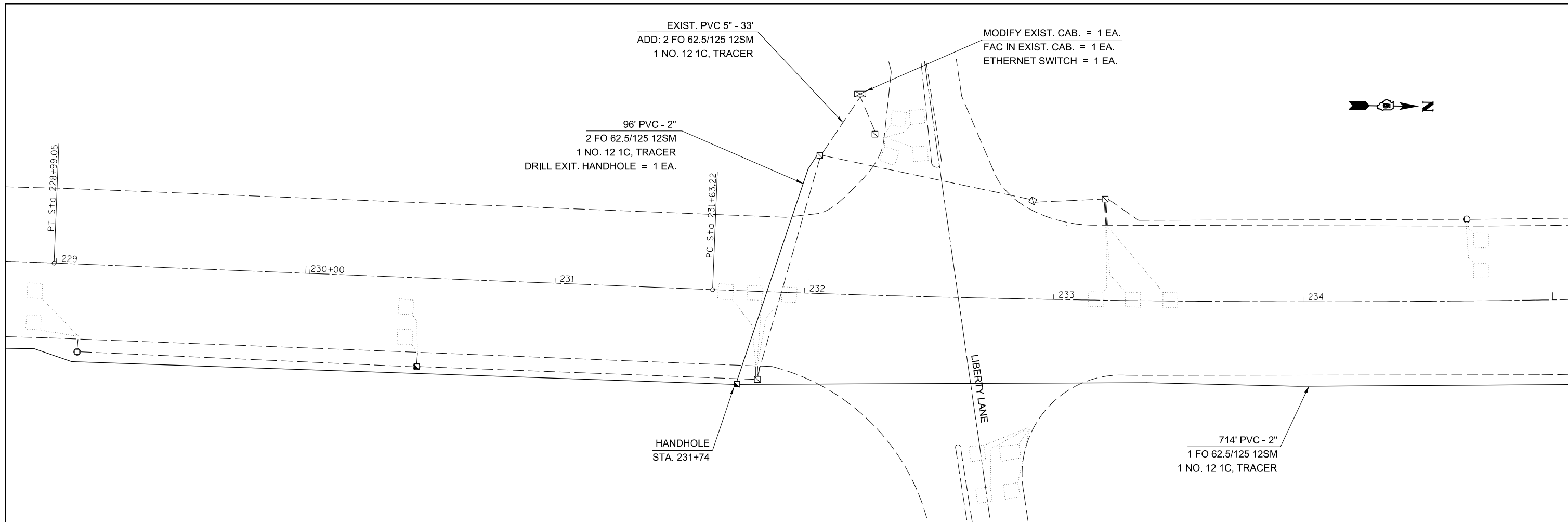
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	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
\$MODELNAME\$	PLOT DATE = 10/17/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

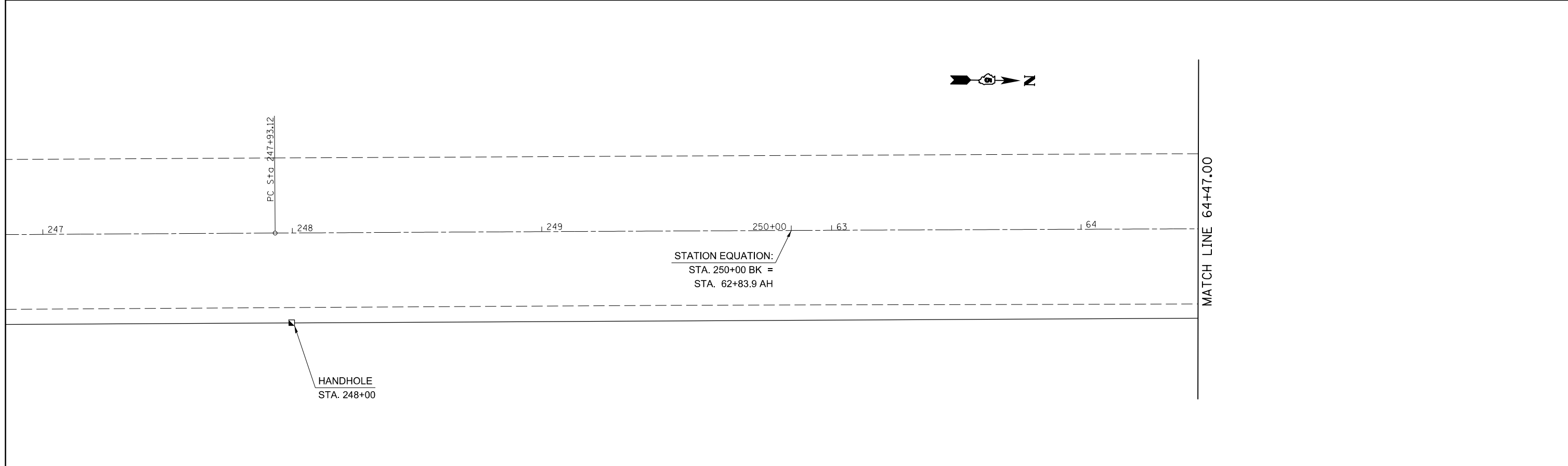
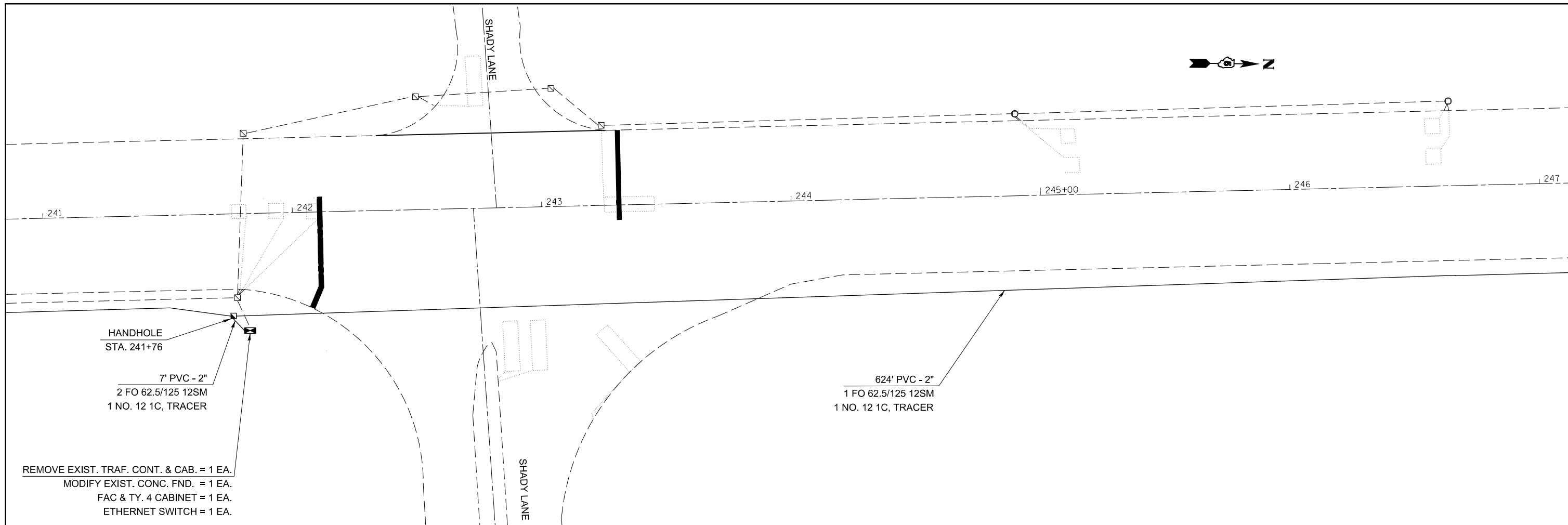
**FIBER OPTIC CONDUIT
AND CABLE LAYOUT**

SCALE: 20 SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	FY2015 ITS-1	VERMILION	73	51
CONTRACT NO. 70A66			ILLINOIS FED. AID PROJECT	



FILE NAME =	USER NAME = piersonbr	DESIGNED - RDB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIBER OPTIC CONDUIT AND CABLE LAYOUT				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 10/17/2014	DATE -	REVISED -		SCALE: 20	SHEET	OF	SHEETS	STA.	TO	STA.		

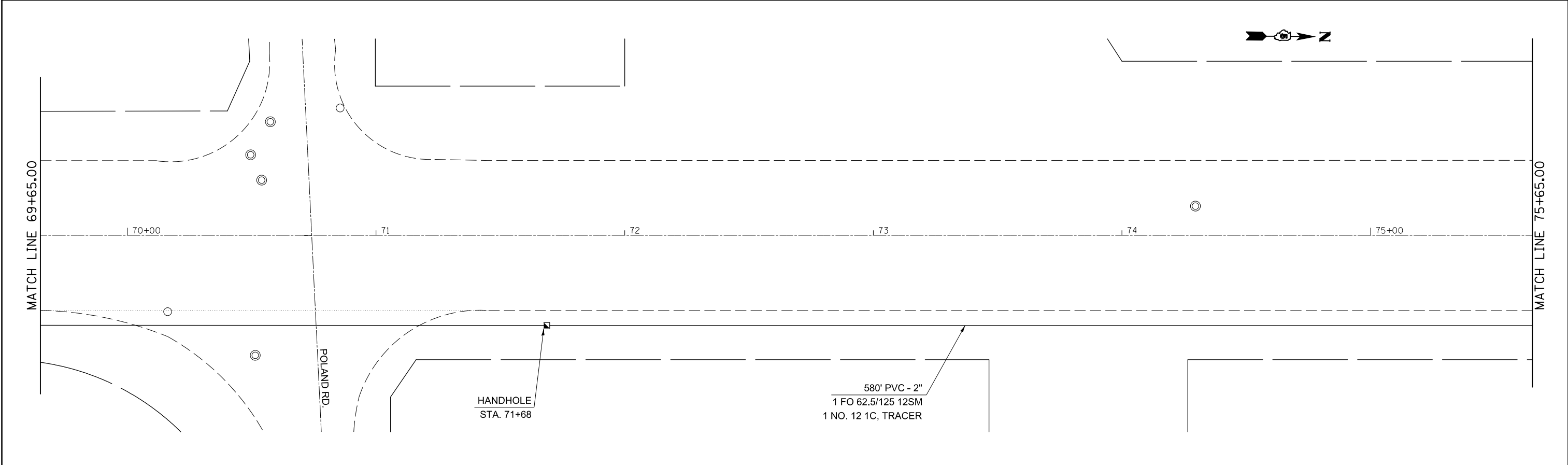
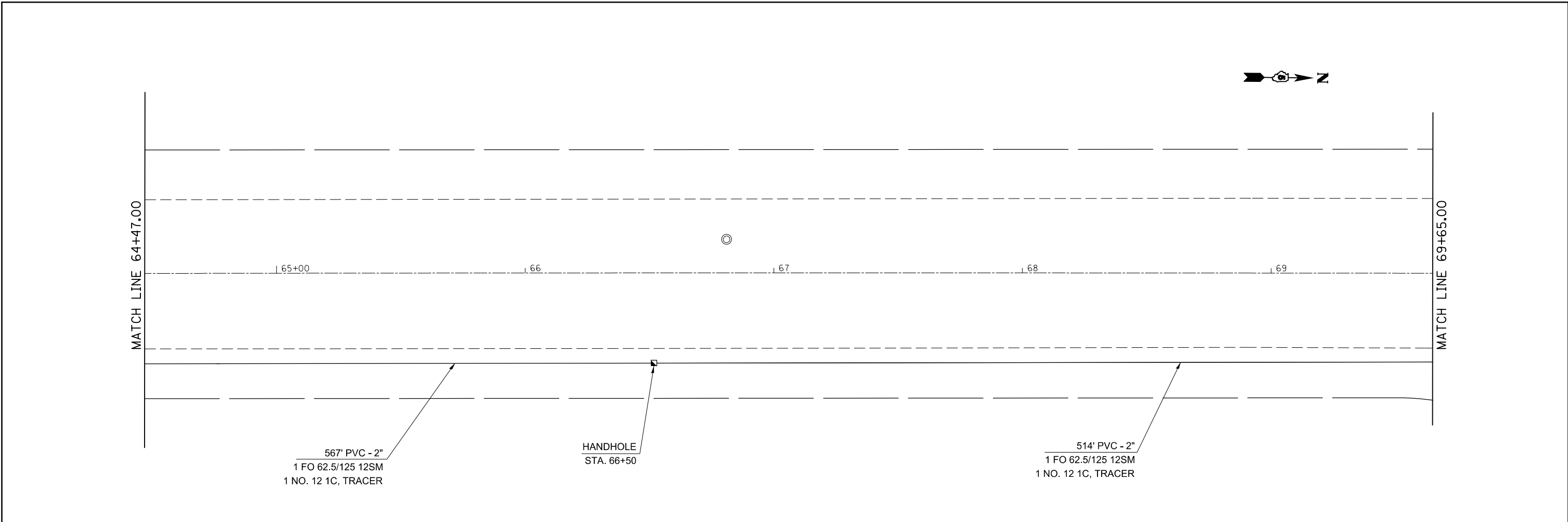


FILE NAME =	USER NAME = piersonbr	DESIGNED - RDB	REVISED -
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\$MODELNAME\$	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/17/2014	DATE -	REVISED -

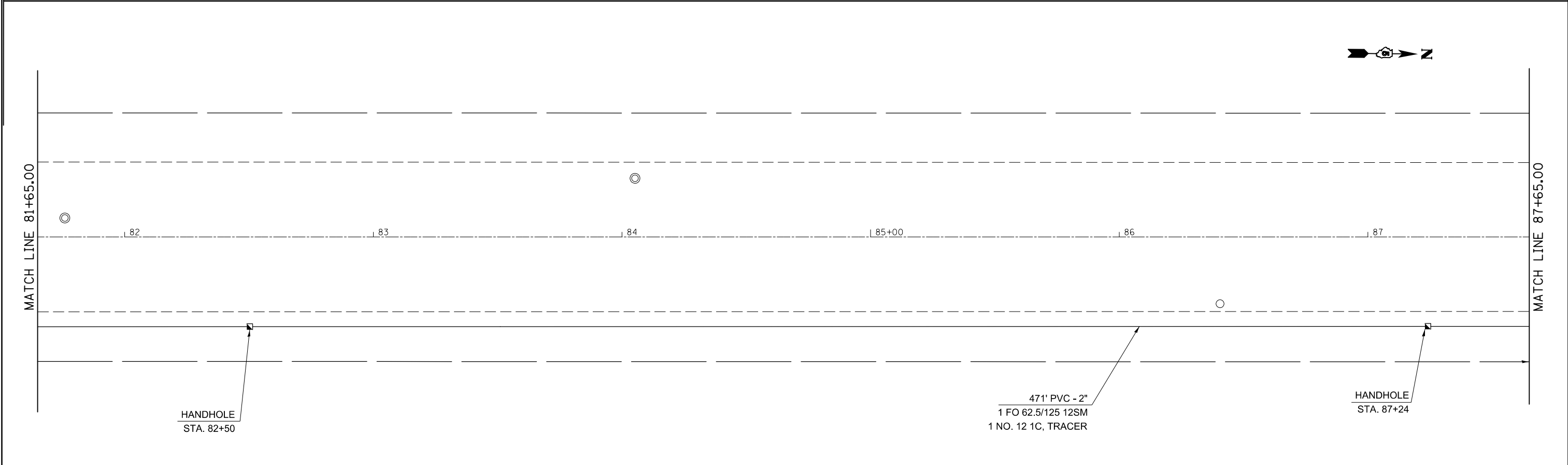
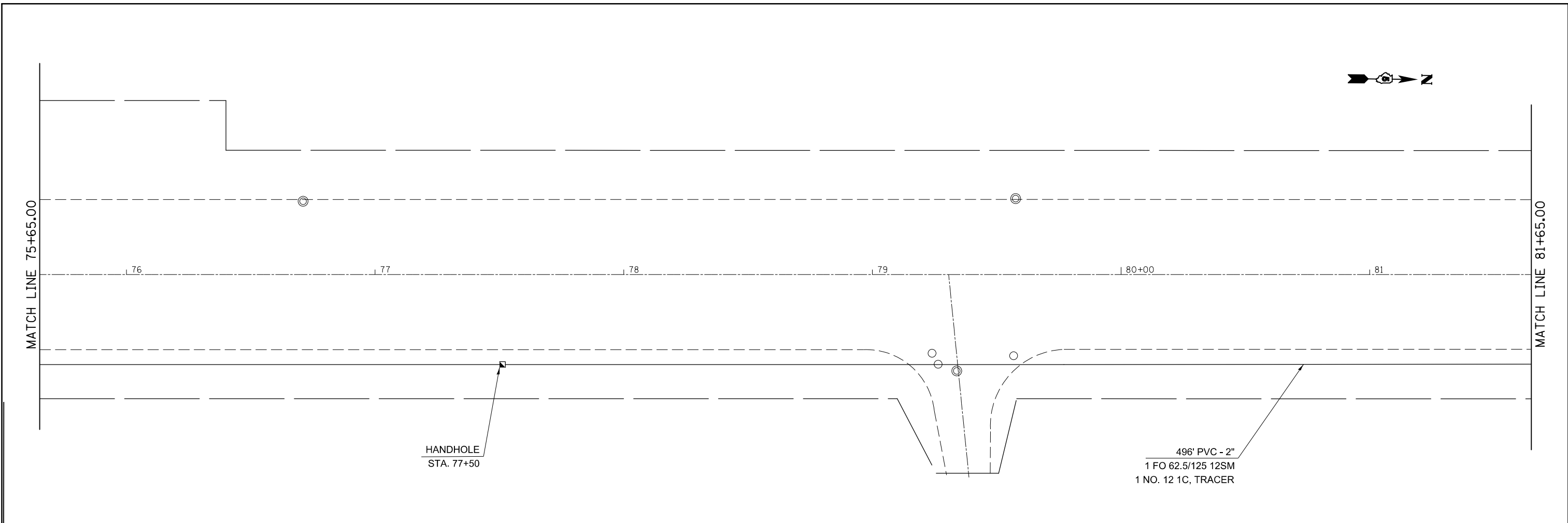
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FIBER OPTIC CONDUIT AND CABLE LAYOUT			
SCALE: 20	SHEET	OF	SHEETS
STA.	TO STA.		

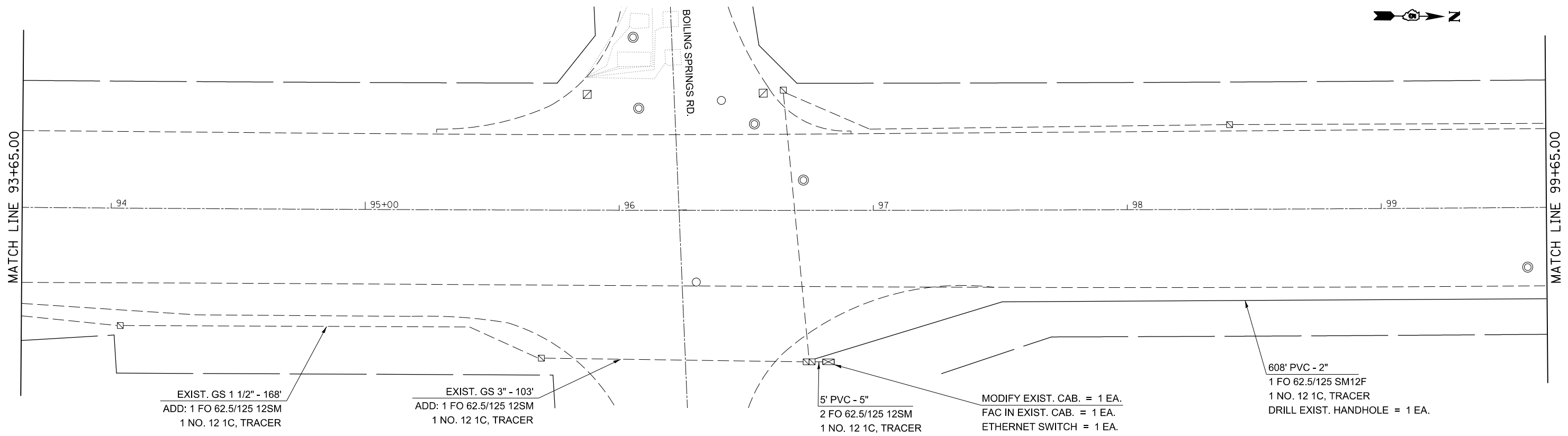
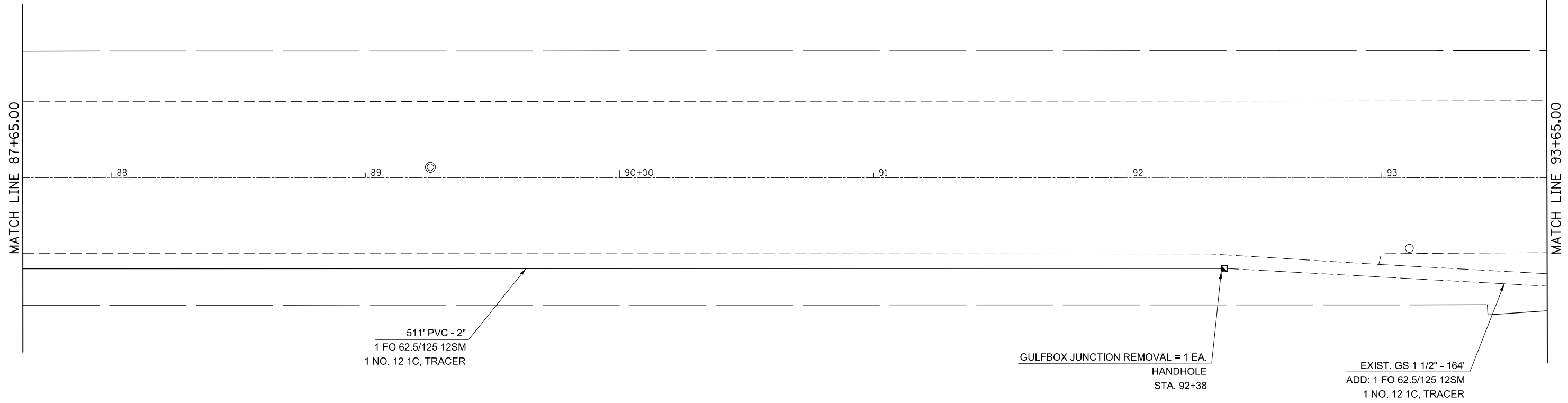
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	FY2015 ITS-1	VERMILION	73	53
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70A66	



FILE NAME =	USER NAME = piersonbr	DESIGNED - RDB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIBER OPTIC CONDUIT AND CABLE LAYOUT				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 10/17/2014	DATE -	REVISED -		SCALE: 20	SHEET	OF	SHEETS	STA.	TO	STA.		



FILE NAME =	USER NAME = ppersonbr	DESIGNED - RDB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIBER OPTIC CONDUIT AND CABLE LAYOUT				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et:\pw\work\p\pidot\personbr\d0405929\PTZ camera and Fiber Optic working file.dgn	DRAWN - RDB	REVISED -	VAR.						FY2015 ITS-1	VERMILION	73	55	
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	PLOT DATE = 10/17/2014	DATE -	REVISED -		SCALE: 20	SHEET	OF	SHEETS	STA.	TO	STA.		



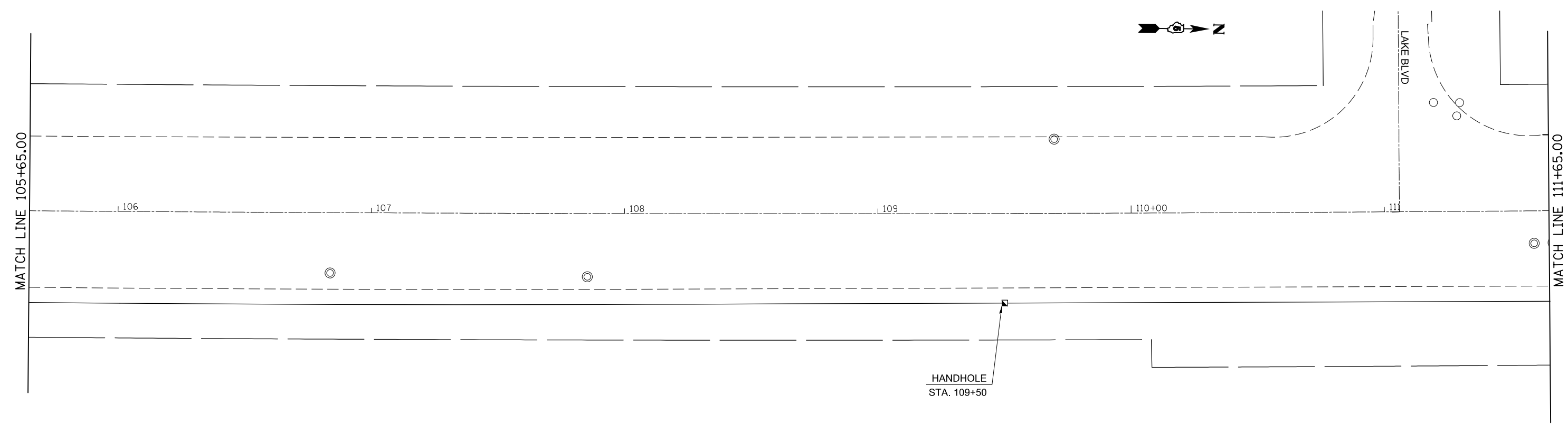
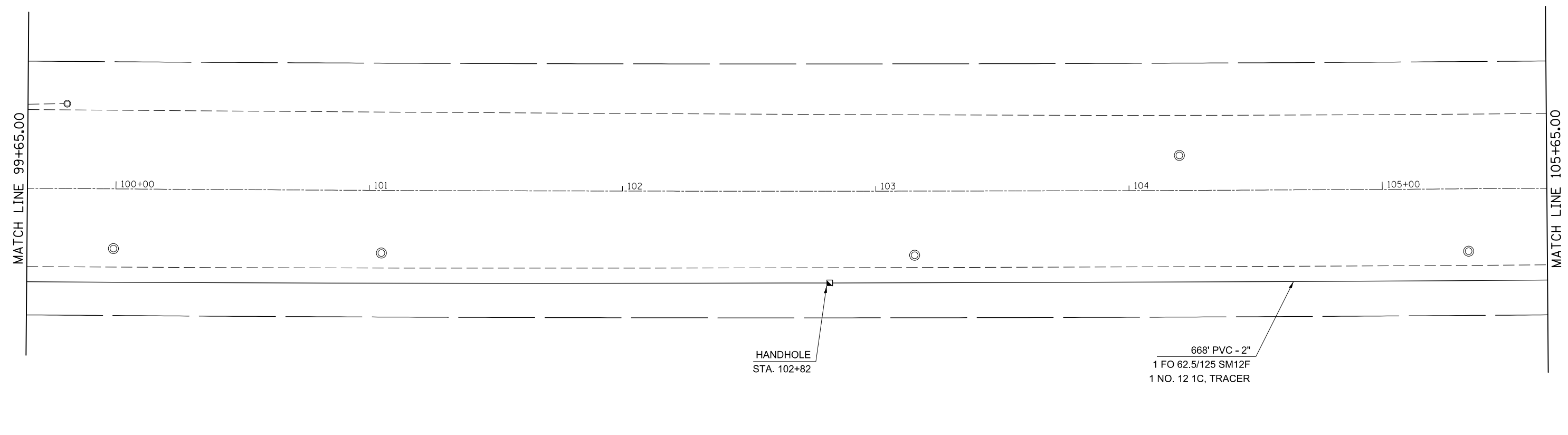
FILE NAME =	USER NAME = ppersonbr	DESIGNED - RDB	REVISED -
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\$MODELNAME\$	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/17/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CONDUIT
AND CABLE LAYOUT**

SCALE: 20 SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	FY2015 ITS-1	VERMILION	73	56
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70A66	



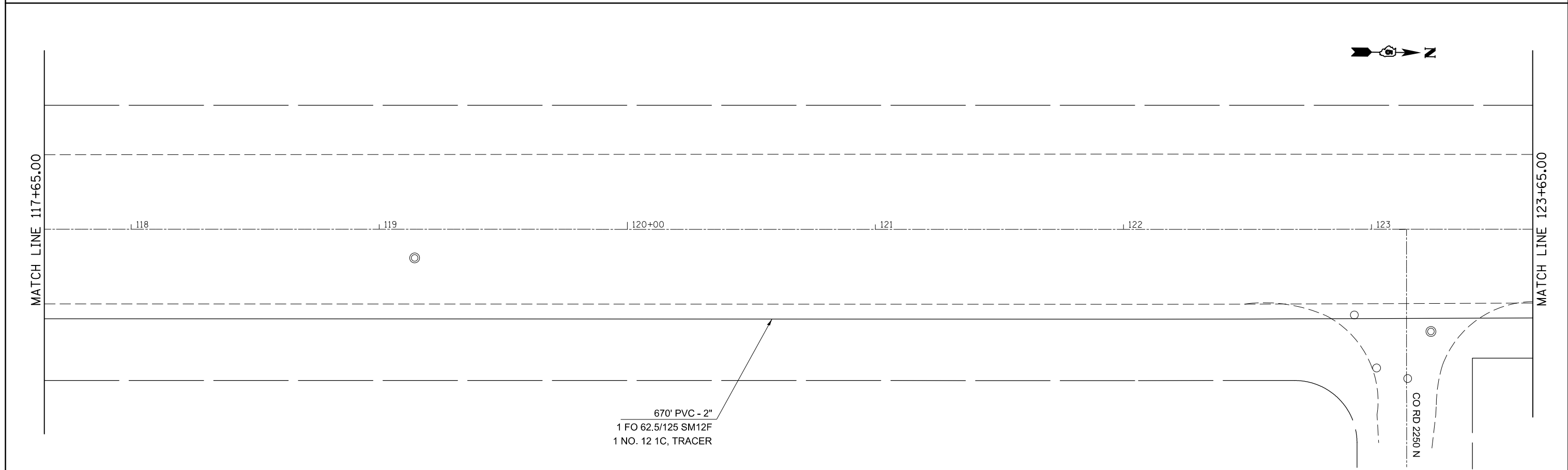
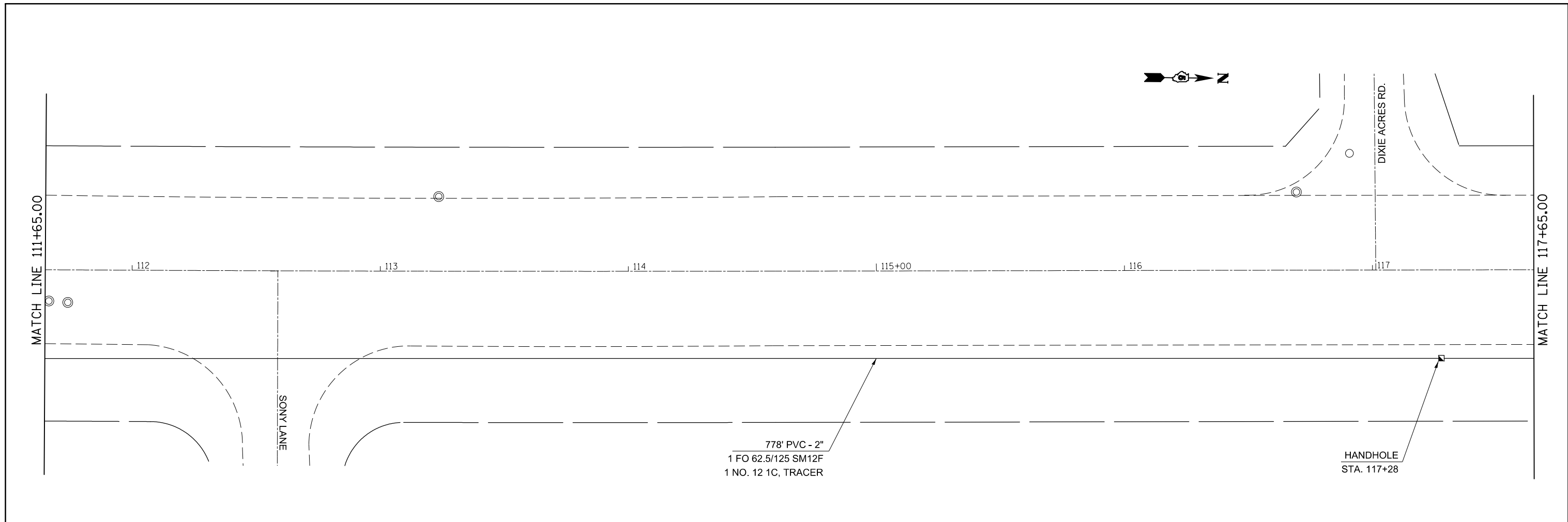
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\$MODELNAME\$	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/17/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CONDUIT
AND CABLE LAYOUT**

SCALE: 20 SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	FY2015 ITS-1	VERMILION	73	57
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70A66	



FILE NAME = c:\pwwork\pwwork\personbr\d0405929\PTZ camera and Fiber Optic working file.dgn	USER NAME = personbr	DESIGNED - RDB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIBER OPTIC CONDUIT AND CABLE LAYOUT				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 10/17/2014	CHECKED -	REVISED -								CONTRACT NO. 70A66		
		DATE -	REVISED -								ILLINOIS FED. AID PROJECT		



MATCH LINE 123+65.00

MATCH LINE 129+65.00

124 125+00 126 127 128 129



HANDHOLE
STA. 124+00

601' PVC - 2"
1 FO 62.5/125 SM12F
1 NO. 12 1C, TRACER



MATCH LINE 129+65.00

MATCH LINE 135+65.00

130+00 131 132 133 134 135+00



HANDHOLE
STA. 130+04

723' PVC - 2"
1 FO 62.5/125 SM12F
1 NO. 12 1C, TRACER

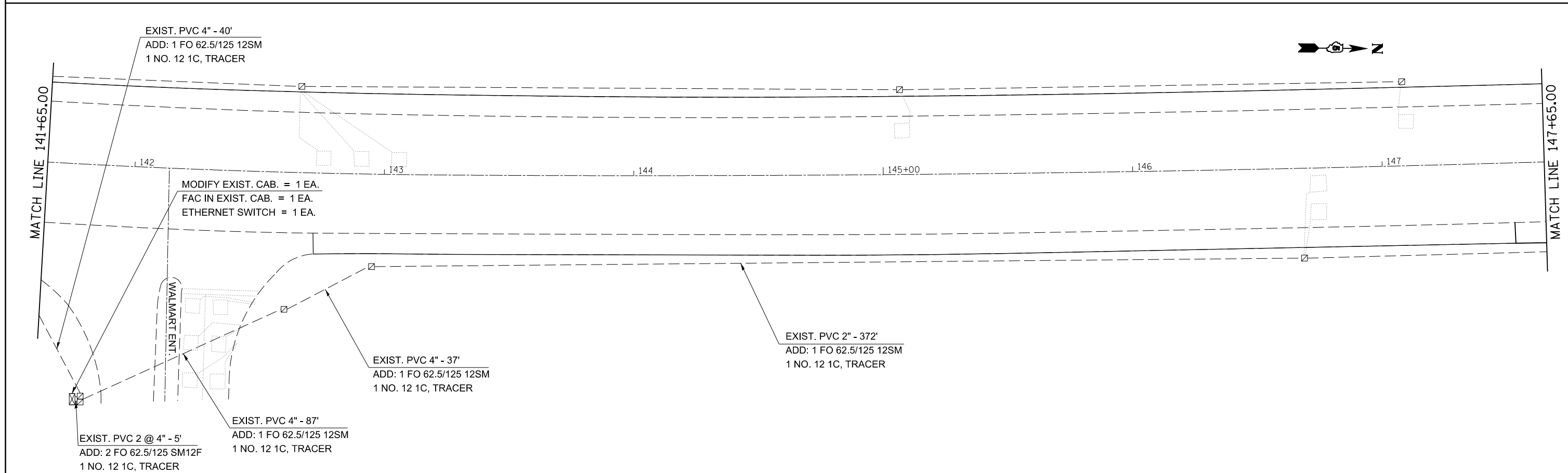
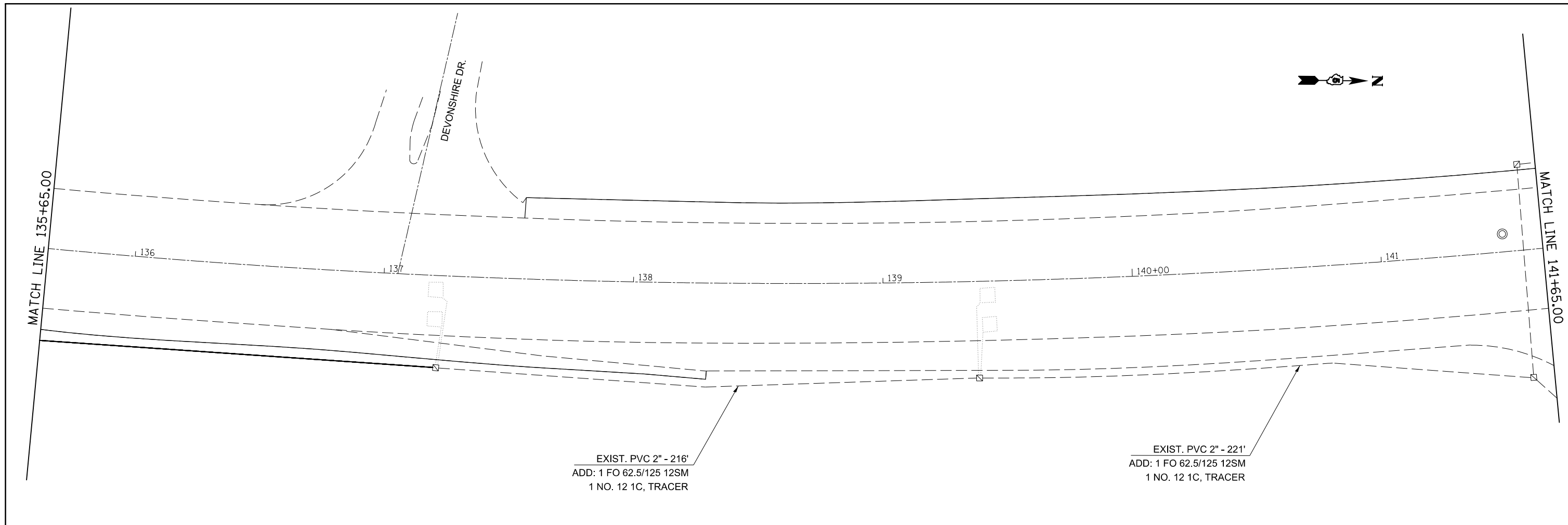
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	PLOT DATE = 10/17/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

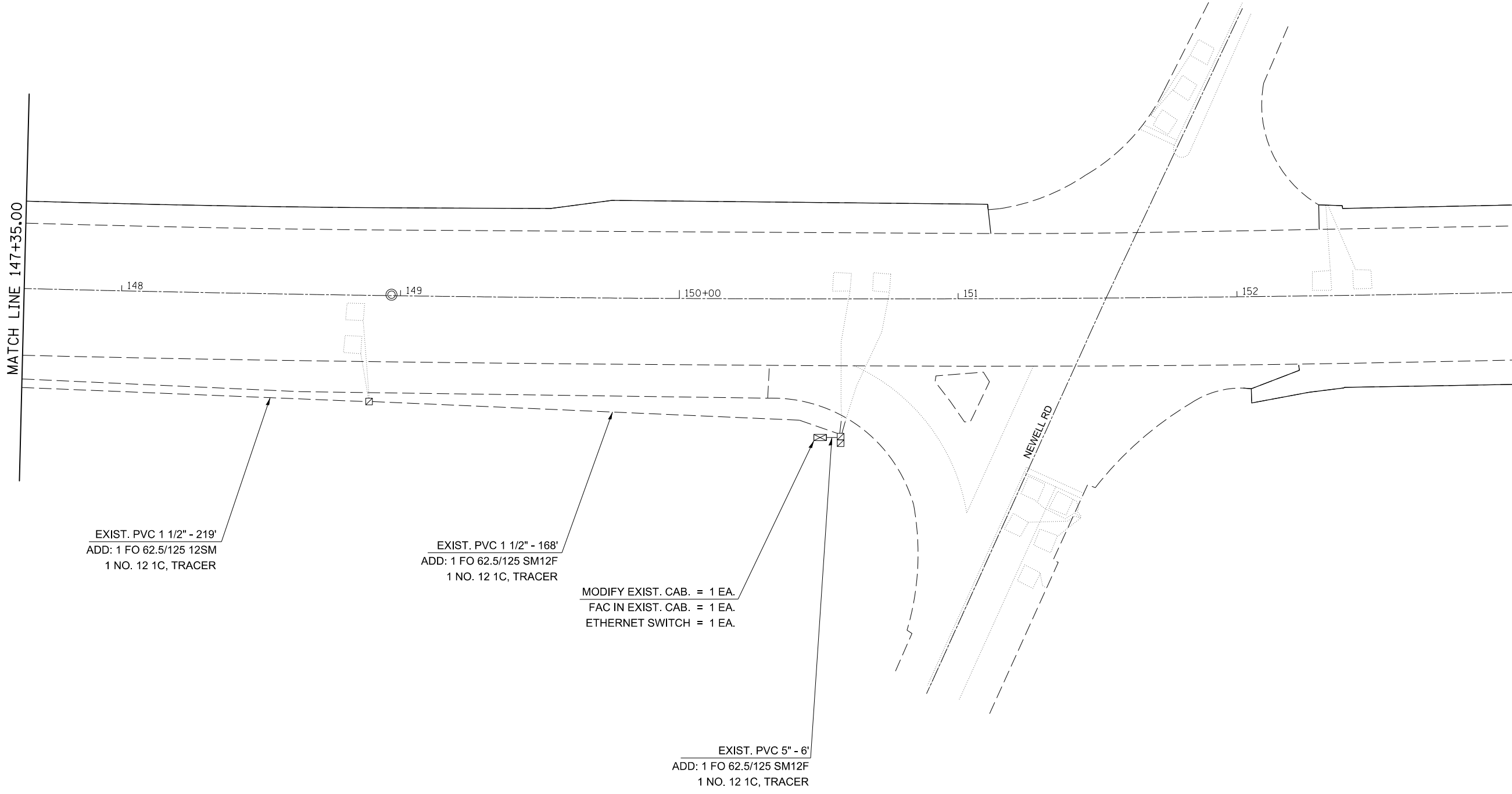
**FIBER OPTIC CONDUIT
AND CABLE LAYOUT**

SCALE: 20 SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	FY2015 ITS-1	VERMILION	73	59
CONTRACT NO. 70A66			ILLINOIS FED. AID PROJECT	



FILE NAME =	USER NAME = ppersonbr	DESIGNED - RDB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIBER OPTIC CONDUIT AND CABLE LAYOUT				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et:\pwork\pwork\personbr\d0405929\PTZ camera and Fiber Optic working file.dgn	PLOT SCALE = 40.0000' / in.	DRAWN - RDB	REVISED -						VAR.	FY2015 ITS-1	VERMILION	73	60
\$MODELNAME\$	PLOT DATE = 10/17/2014	CHECKED -	REVISED -		CONTRACT NO. 70A66				ILLINOIS FED. AID PROJECT				
		DATE -	REVISED -		SCALE: 20	SHEET	OF	SHEETS	STA.	TO	STA.		



FILE NAME =	USER NAME = ppersonbr	DESIGNED - RDB	REVISED -
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\$MODELNAME\$	PLOT DATE = 10/17/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

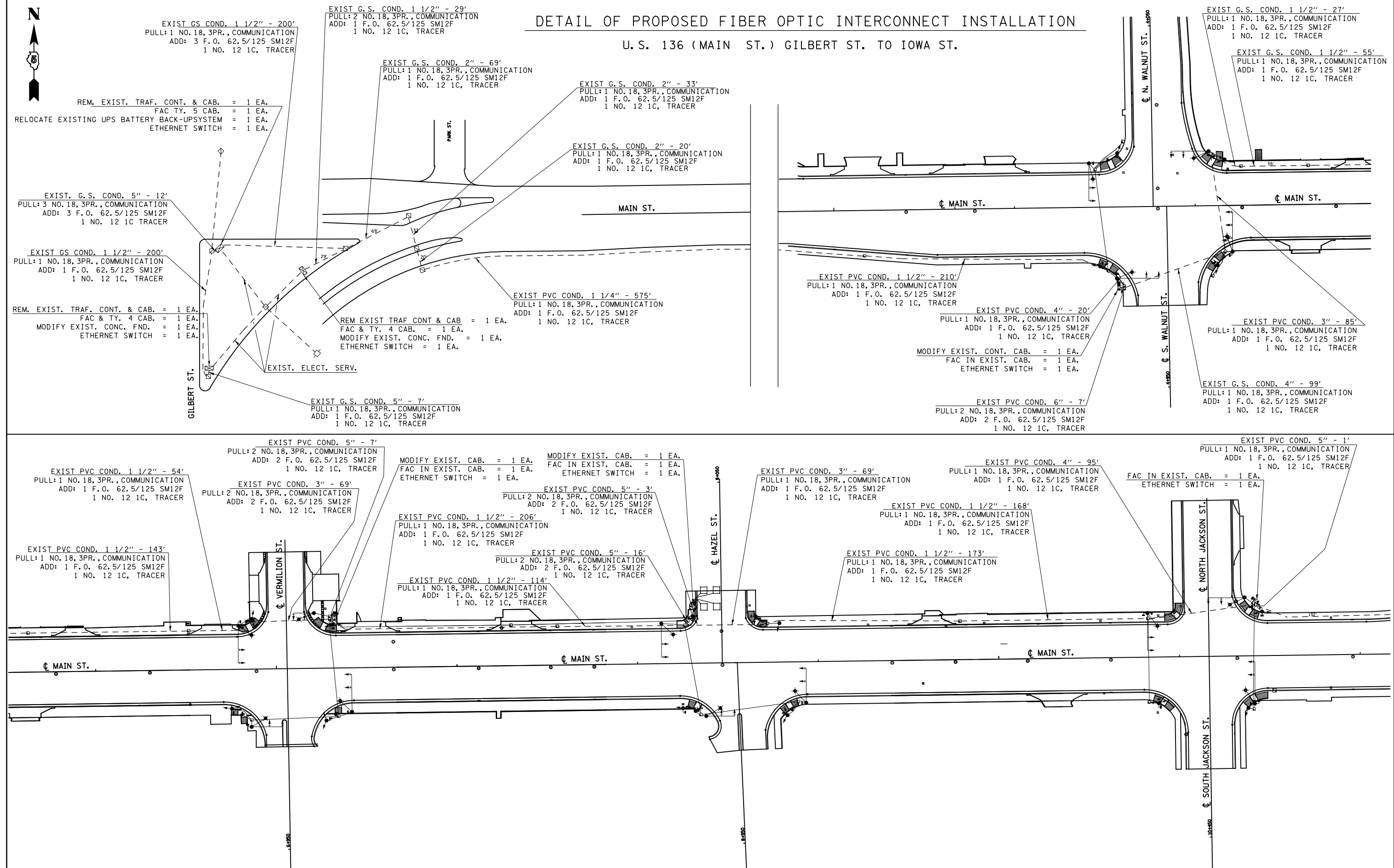
FIBER OPTIC CONDUIT AND CABLE LAYOUT			
SCALE: 20	SHEET	OF	SHEETS
	STA.		TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	FY2015 ITS-1	VERMILION	73	61
CONTRACT NO. 70A66				
ILLINOIS FED. AID PROJECT				



DETAIL OF PROPOSED FIBER OPTIC INTERCONNECT INSTALLATION

U. S. 136 (MAIN ST.) GILBERT ST. TO IOWA ST.

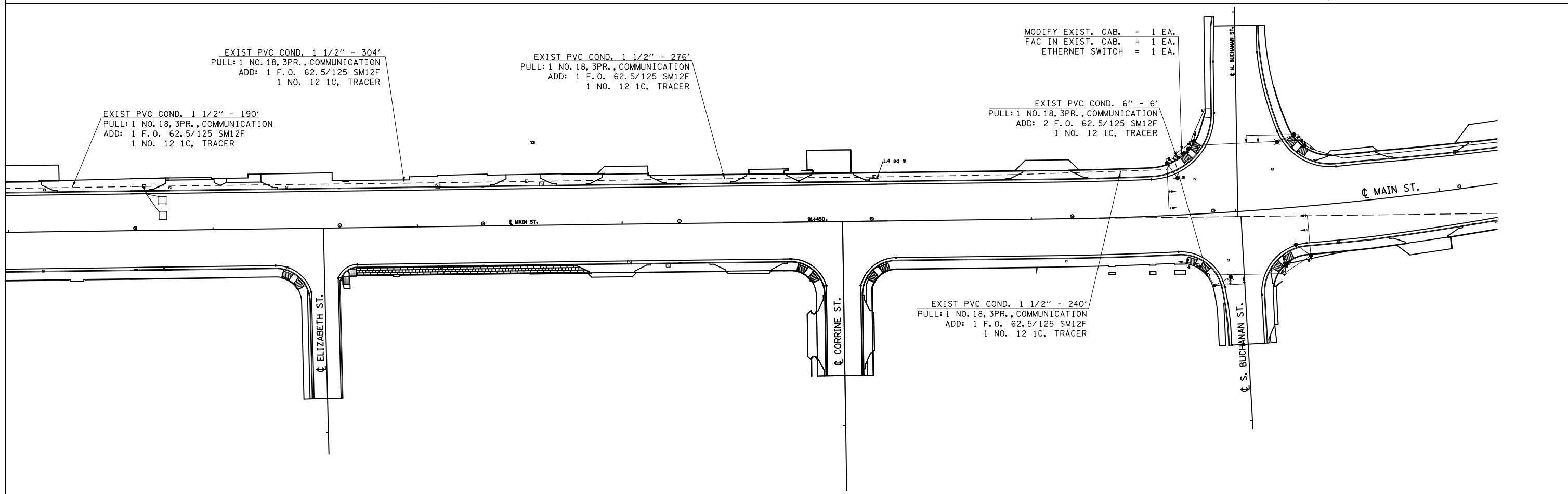
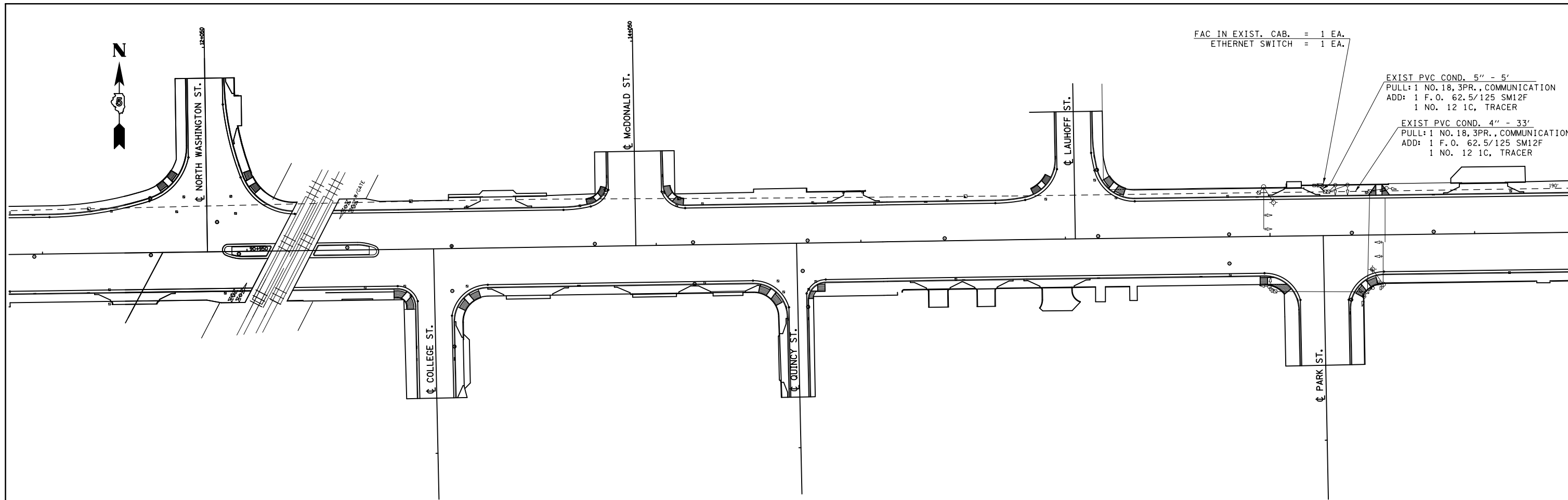


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	PLOT DATE = 2/2/2015	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	FY2015 ITS-1	VERMILION	73	62
CONTRACT NO. 70A66			ILLINOIS FED. AID PROJECT	

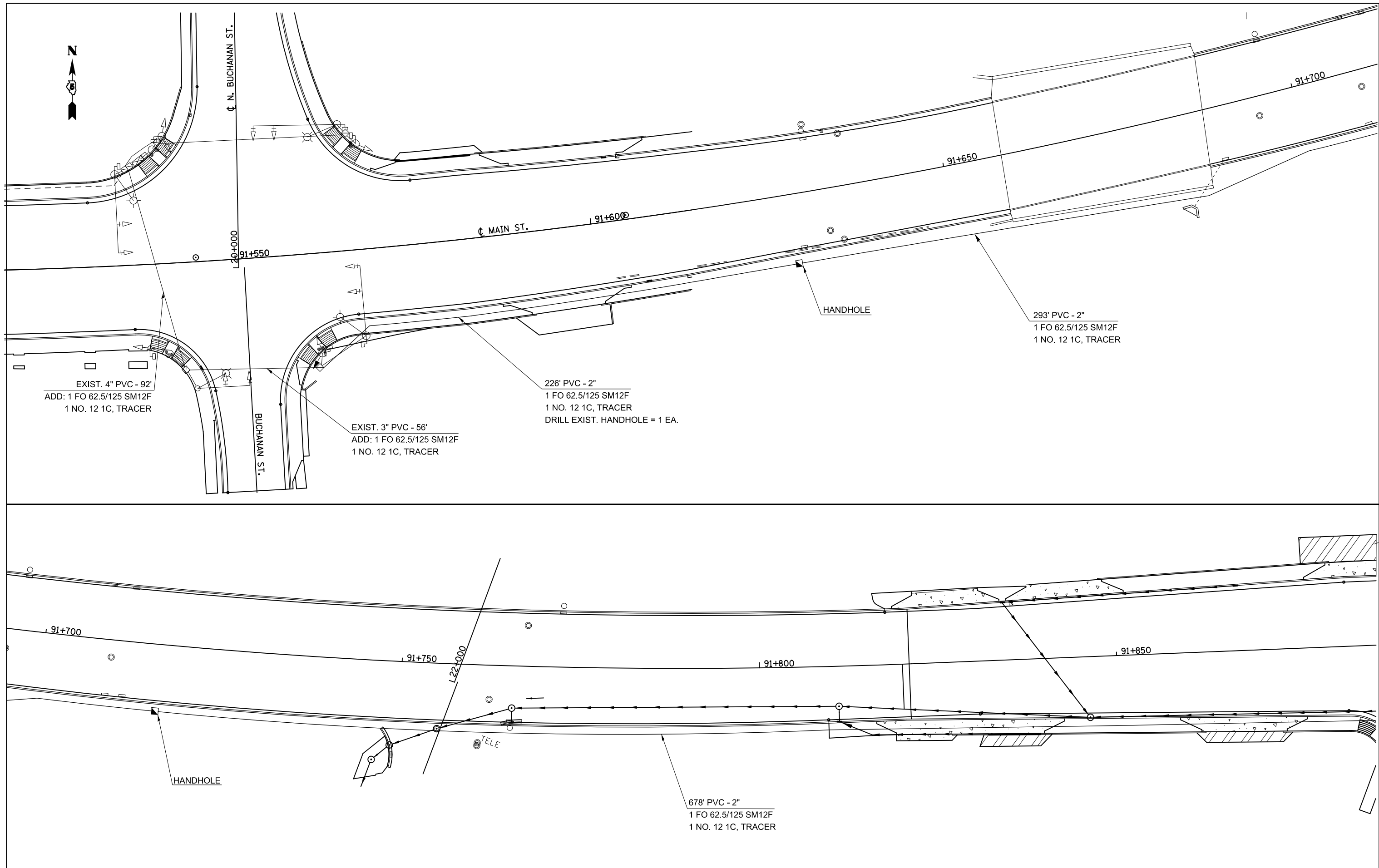


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	PLOT DATE = 2/2/2015	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	FY2015 ITS-1	VERMILION	73	63
CONTRACT NO. 70A66			ILLINOIS FED. AID PROJECT	

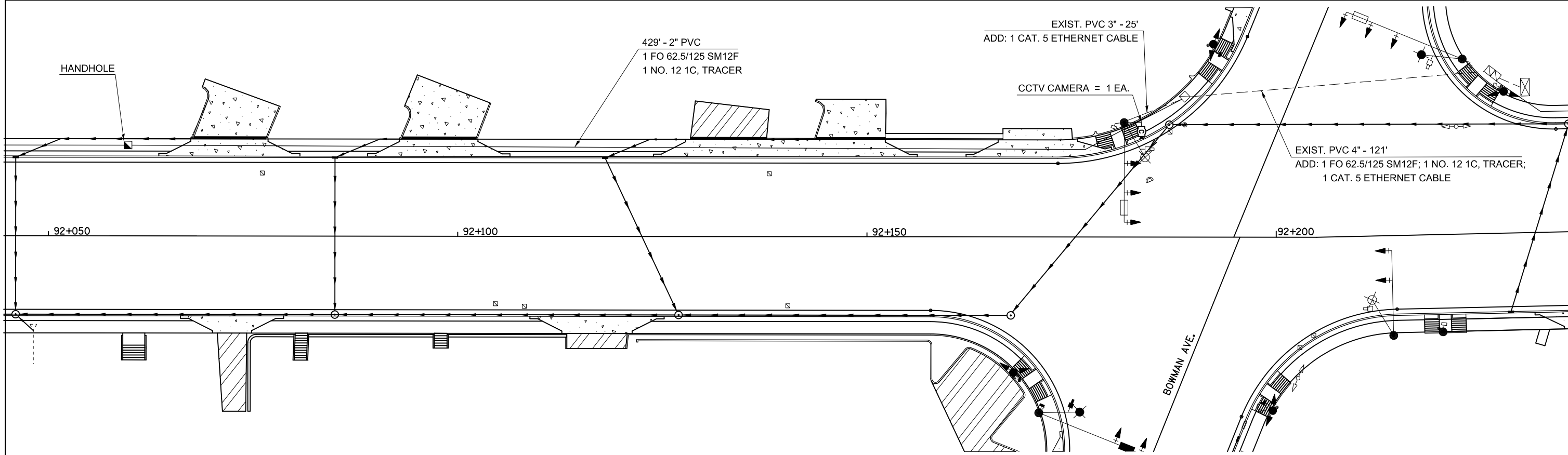
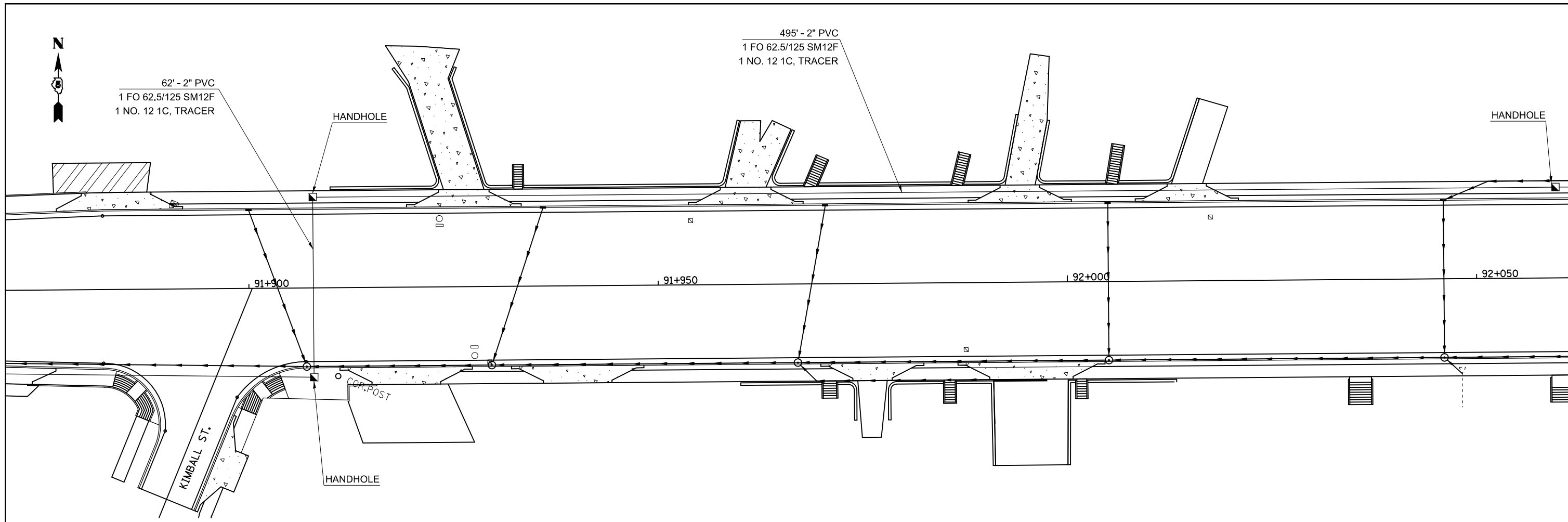


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MODELNAME	PLOT DATE = 10/17/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FIBER OPTIC CONDUIT AND CABLE LAYOUT			
SCALE: 20	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	FY2015 ITS-1	VERMILION	73	64
CONTRACT NO. 70A66				
ILLINOIS FED. AID PROJECT				



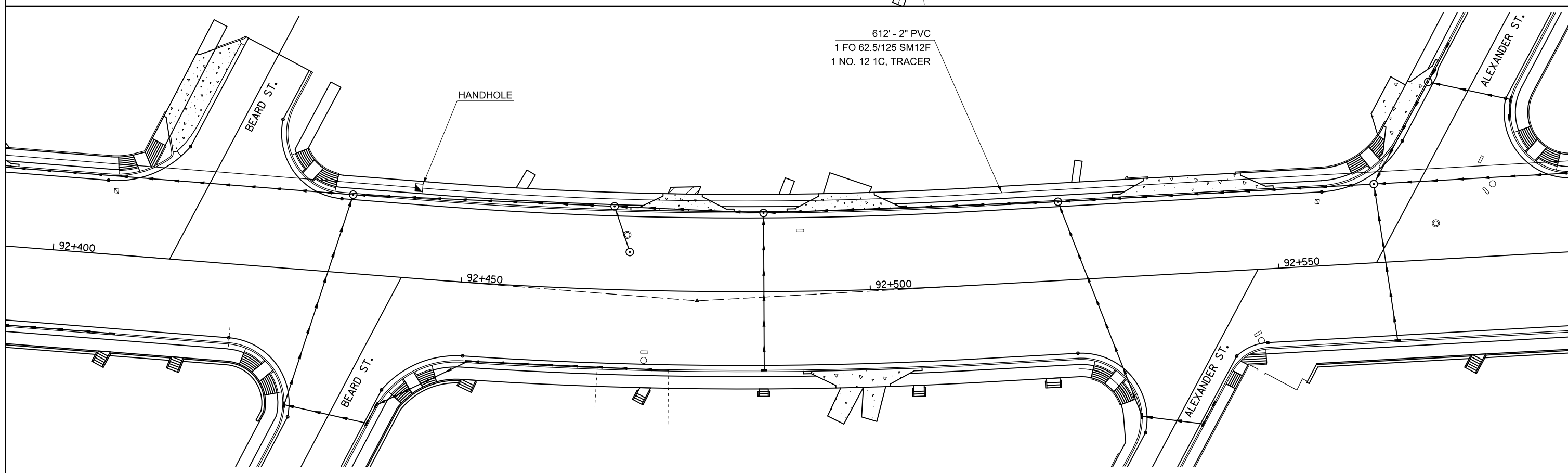
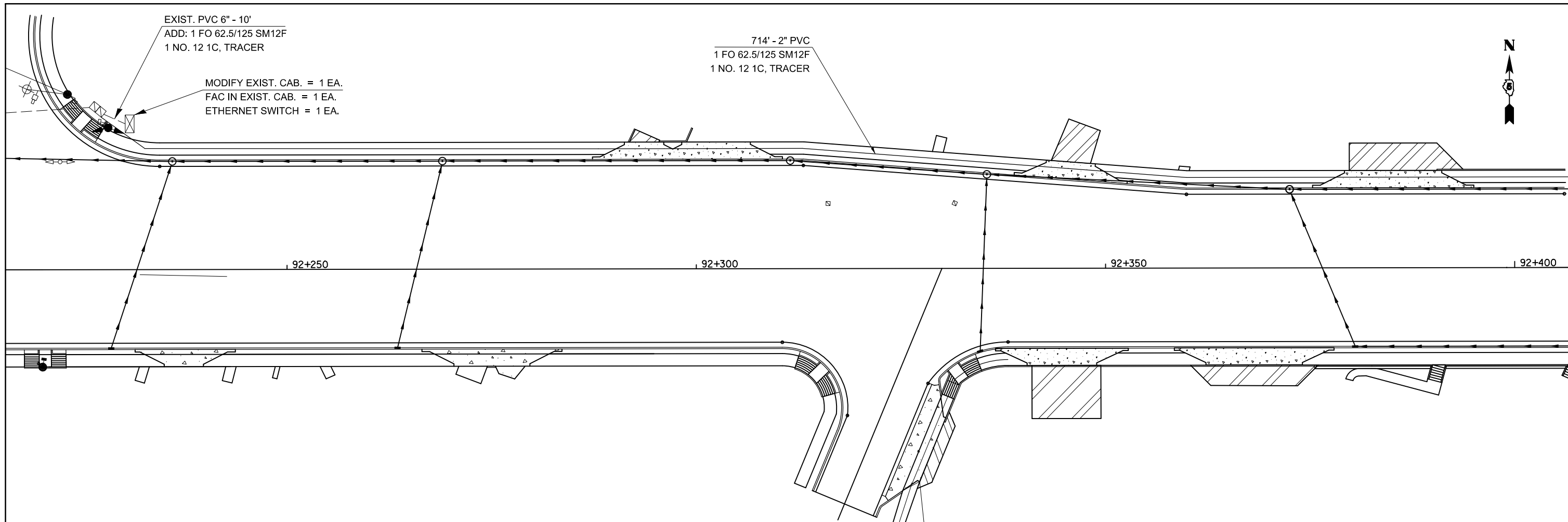
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	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
\$MODELNAME\$	PLOT DATE = 10/17/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

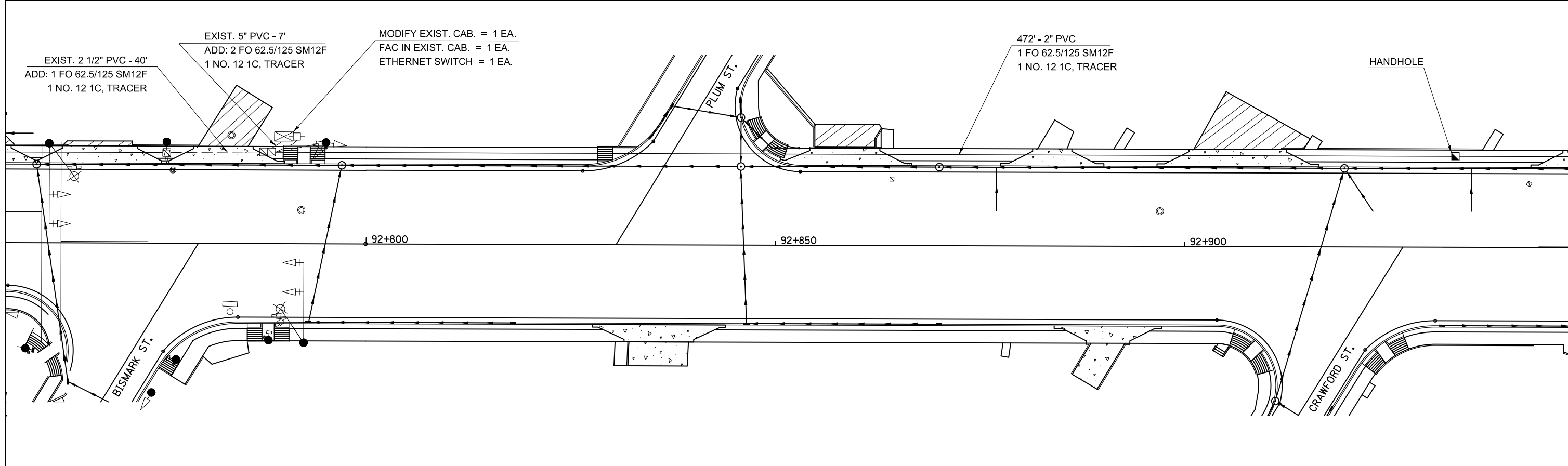
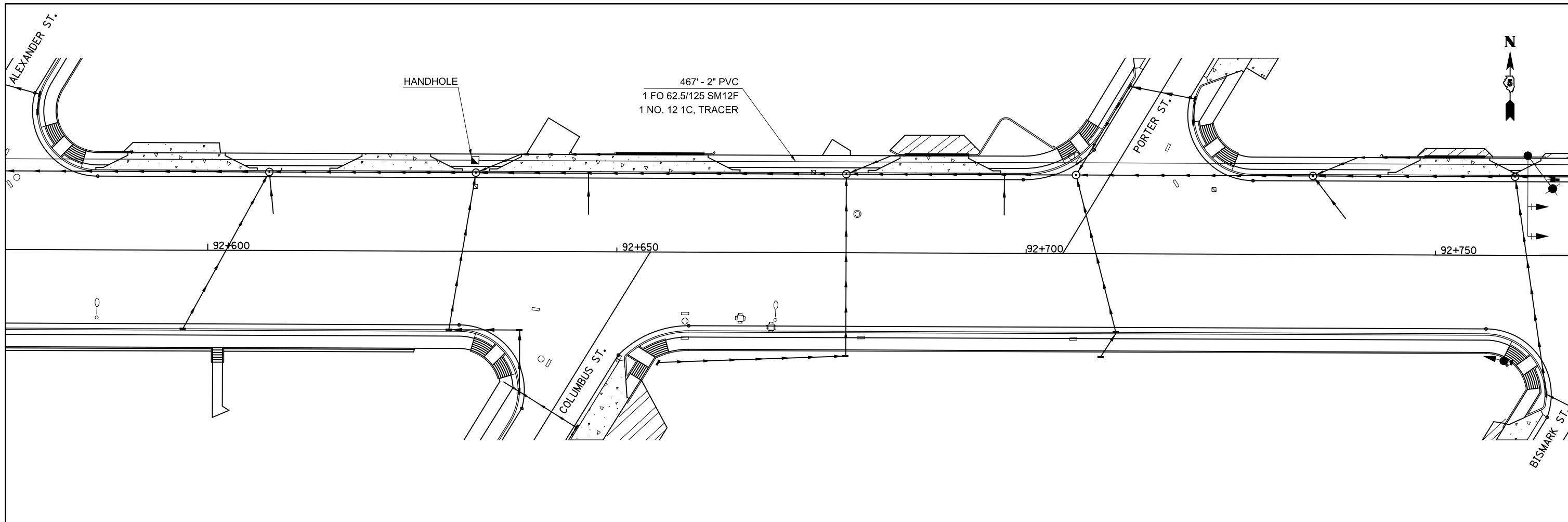
**FIBER OPTIC CONDUIT
AND CABLE LAYOUT**

SCALE: 20 SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	FY2015 ITS-1	VERMILION	73	65
CONTRACT NO. 70A66				
ILLINOIS FED. AID PROJECT				



FILE NAME =	USER NAME = ppersonbr	DESIGNED - RDB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIBER OPTIC CONDUIT AND CABLE LAYOUT				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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\$MODELNAME\$	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -		CONTRACT NO. 70A66				ILLINOIS FED. AID PROJECT				
	PLOT DATE = 10/17/2014	DATE -	REVISED -		SCALE: 20	SHEET	OF	SHEETS	STA.	TO	STA.		



FILE NAME =	USER NAME = ppersonbr	DESIGNED - RDB	REVISED -
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	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
\$MODELNAME\$	PLOT DATE = 10/17/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CONDUIT
AND CABLE LAYOUT**

SCALE: 20 SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	FY2015 ITS-1	VERMILION	73	67
				CONTRACT NO. 70A66
ILLINOIS FED. AID PROJECT				

MODIFY EXIST. CAB. = 1 EA.
 FAC IN EXIST. CAB. = 1 EA.
 ETHERNET SWITCH = 1 EA.

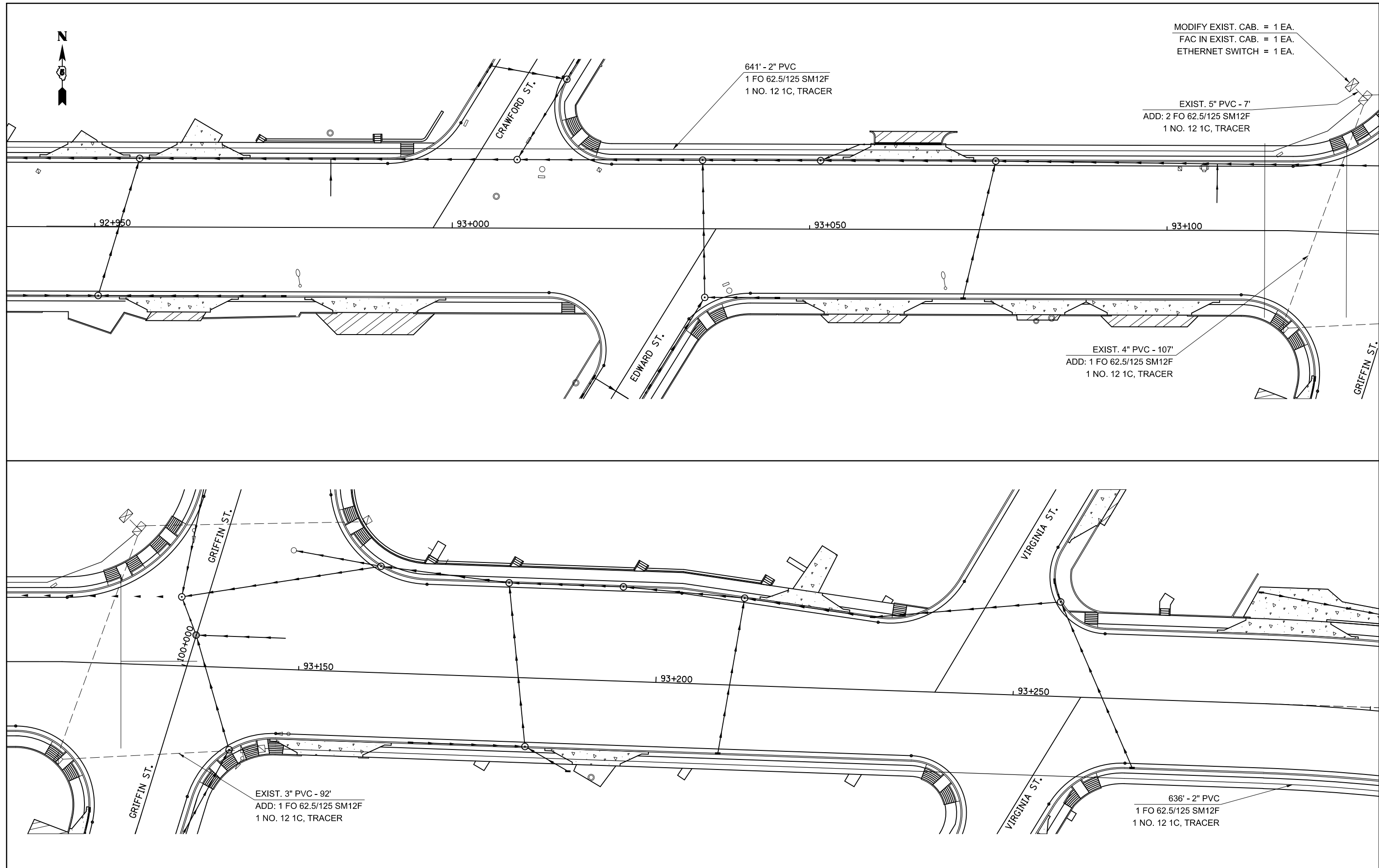
641' - 2" PVC
 1 FO 62.5/125 SM12F
 1 NO. 12 1C, TRACER

EXIST. 5" PVC - 7'
 ADD: 2 FO 62.5/125 SM12F
 1 NO. 12 1C, TRACER

EXIST. 4" PVC - 107'
 ADD: 1 FO 62.5/125 SM12F
 1 NO. 12 1C, TRACER

EXIST. 3" PVC - 92'
 ADD: 1 FO 62.5/125 SM12F
 1 NO. 12 1C, TRACER

636' - 2" PVC
 1 FO 62.5/125 SM12F
 1 NO. 12 1C, TRACER



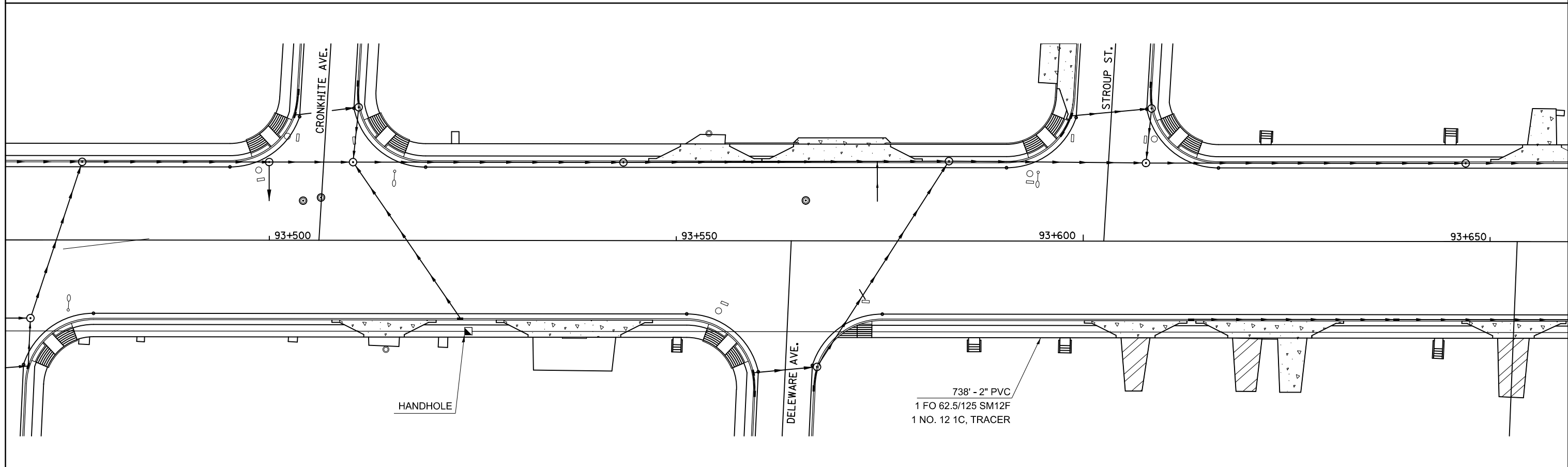
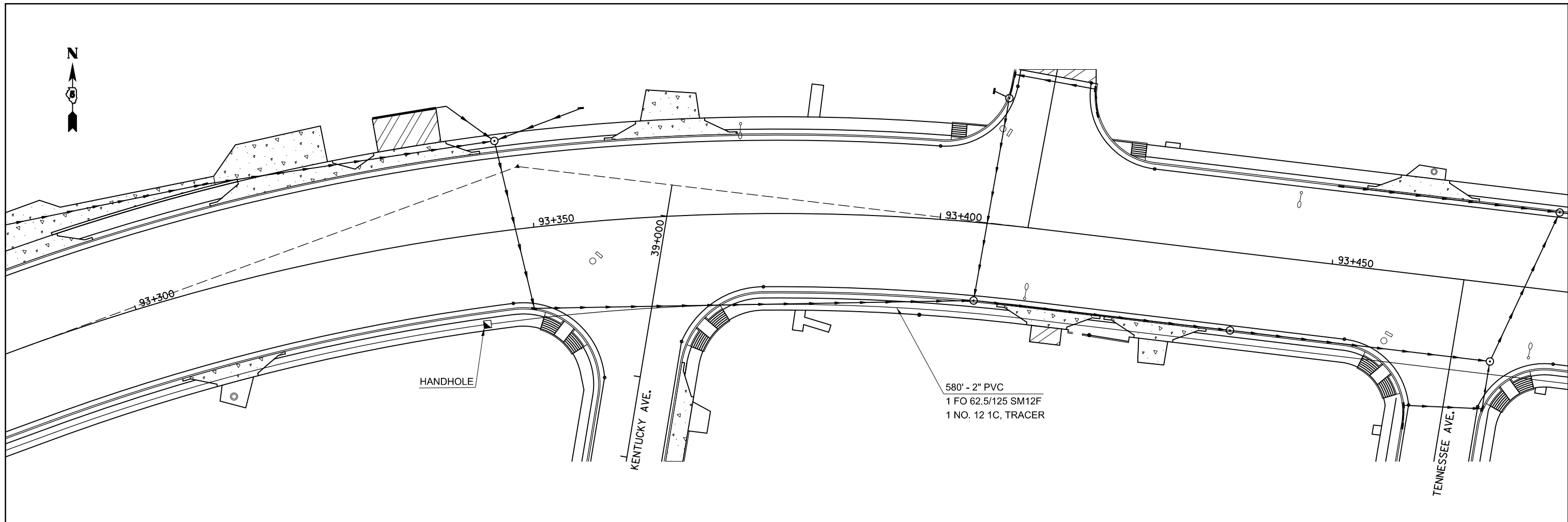
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c:\pwork\pwork\personbr\d0405929\PTZ camera and Fiber Optic working file.dgn		DRAWN - RDB	REVISED -
\$MODELNAME\$	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/17/2014	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CONDUIT
 AND CABLE LAYOUT**

SCALE: 20 SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	FY2015 ITS-1	VERMILION	73	68
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70A66	



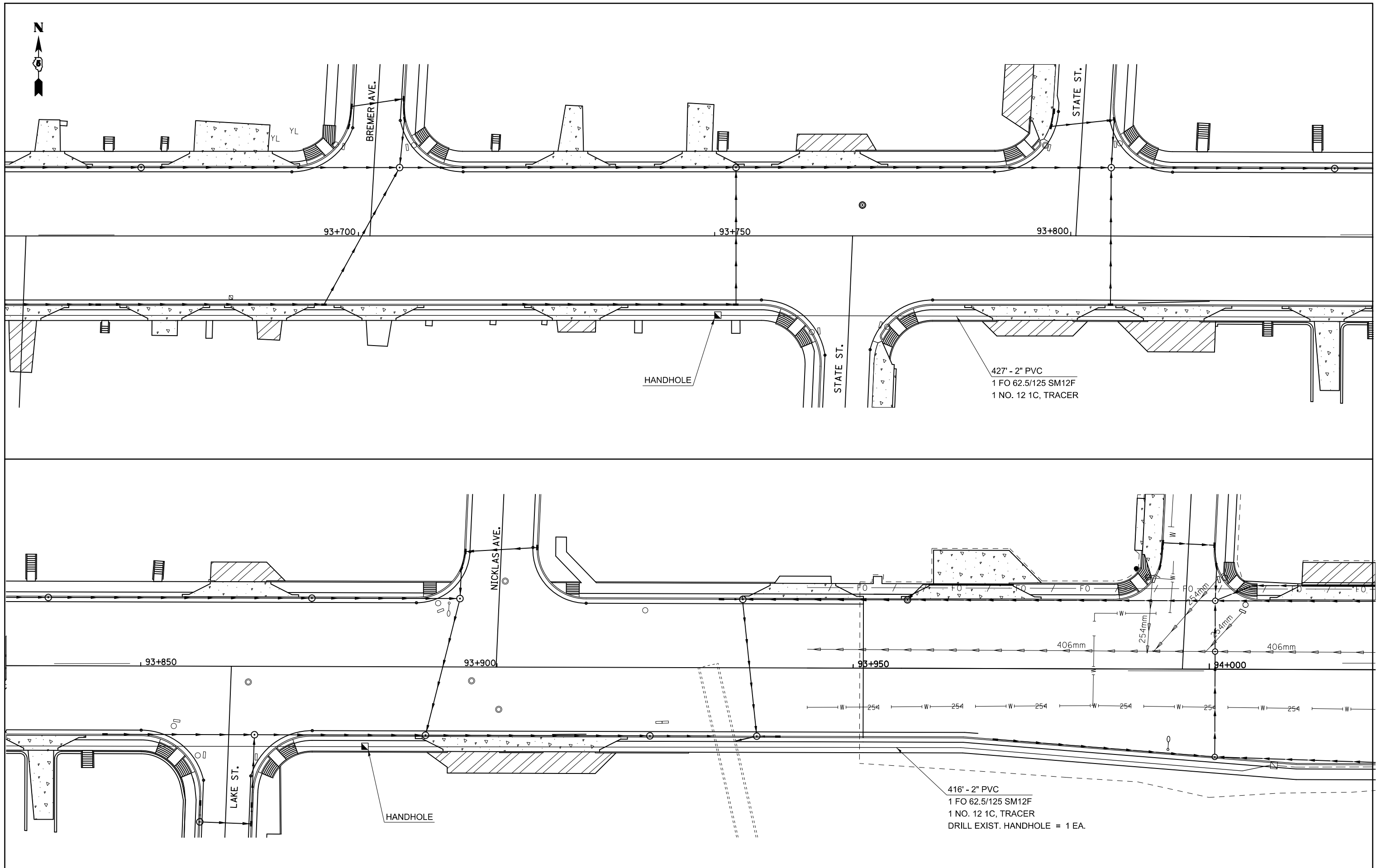
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\$MODELNAME\$	PLOT DATE = 10/17/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CONDUIT
AND CABLE LAYOUT**

SCALE: 20 SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	FY2015 ITS-1	VERMILION	73	69
CONTRACT NO. 70A66			ILLINOIS FED. AID PROJECT	

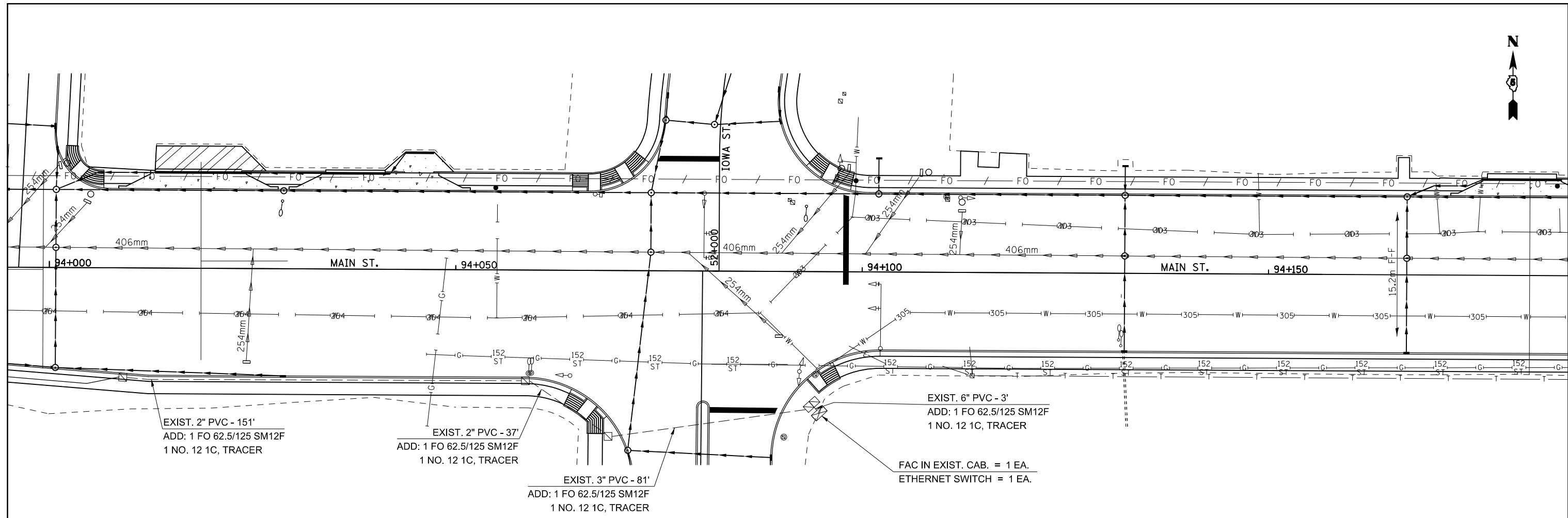


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	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
\$MODELNAME\$	PLOT DATE = 10/17/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FIBER OPTIC CONDUIT AND CABLE LAYOUT	
SCALE: 20	SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	FY2015 ITS-1	VERMILION	73	70
CONTRACT NO. 70A66				
ILLINOIS FED. AID PROJECT				



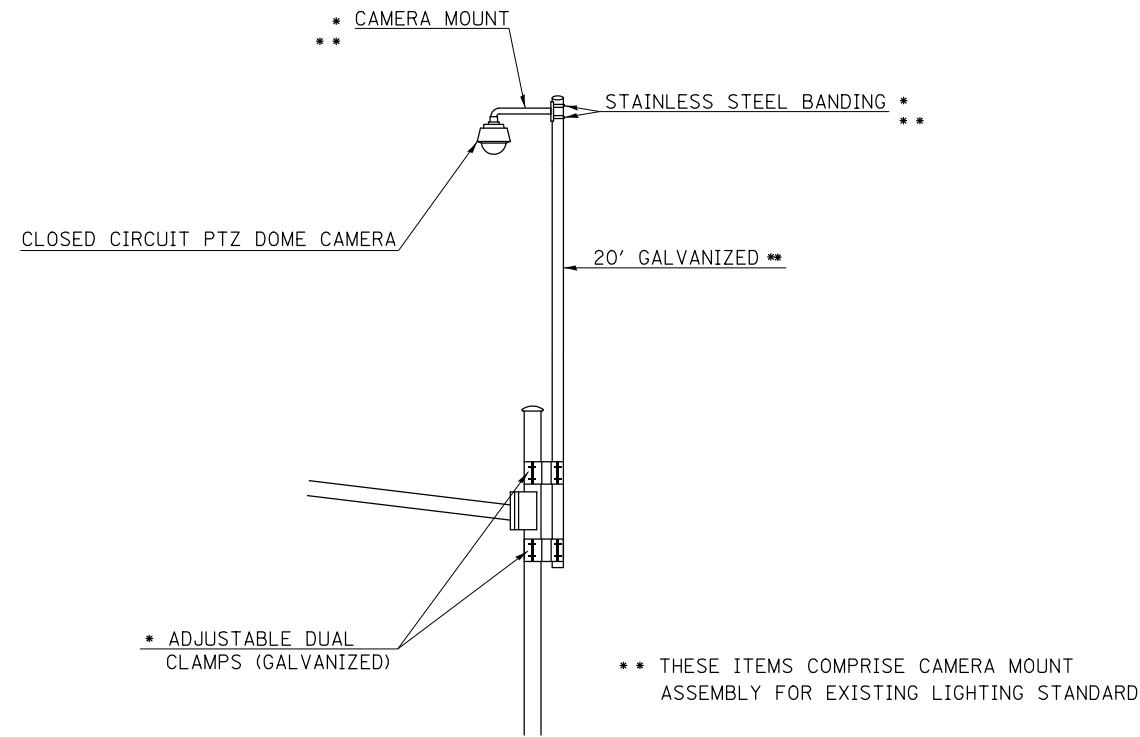
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	PLOT SCALE = 1574.8031' / m	DRAWN - RDB	REVISED -
MODELNAME	PLOT DATE = 2/2/2015	CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CONDUIT
AND CABLE LAYOUT**

SCALE: 20 SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	FY2015 ITS-1	VERMILION	73	71
CONTRACT NO. 70A66				
ILLINOIS FED. AID PROJECT				



CAMERA MOUNTING ASSEMBLY DETAIL
(FOR STANDARD MAST ARM POLE MOUNT, LIGHTING STANDARD & DMS STRUCTURE)

MANAGED ETHERNET SWITCHES		
Location	Each	SM SFP
IL 1 & Shady Lane	1	2
IL 1 & Liberty Lane	1	2
IL 1 & Lake Shore Dr.	1	2
IL 1 & K-Mart Ent.	1	2
IL 1 & Winter	1	2
IL 1 & Vorhees	1	2
IL 1 & English	1	2
IL 1 (Vermilion) & Fairchild	1	2
IL 1 (Gilbert) & Fairchild	1	2
IL 1 & Williams	1	2
IL 1 & Seminary	1	2
IL 1 & Harrison	1	2
IL 1 & North	1	2
IL 1 & US 136 (North)	1	4
IL 1 & US 136 (South)	1	1
IL 1 & US 136 (East)	1	2
IL 1 & Walnut St.	1	2
IL 1 & Vermilion St.	1	2
IL 1 & Hazel St.	1	2
IL 1 & Jackson St.	1	2
IL 1 & Park St.	1	2
IL 1 & Buchanan St.	1	2
IL 1 & Bowman Ave.	1	2
IL 1 & Bismark St.	1	2
IL 1 & Griffin St.	1	2
US 136 & Logan St.	1	1
IL 1 & Boiling Springs Rd.	1	2
IL 1 & Walmart Ent.	1	2
IL 1 & Newell Rd.	1	1
Total	29	57

SCHEDULE OF QUANTITIES

GULFBOX JUNCTION REMOVAL

LOCATION	EACH
IL 1	
STA. 148+20 RT.	1
STA. 29+59 LT.	1
STA. 102+98 LT.	1
STA. 109+19 RT.	1
STA. 111+00 RT.	1
STA. 114+95 LT.	1
STA. 116+43 LT.	1
STA. 122+86 RT.	1
STA. 124+34 RT.	1
STA. 128+.3 LT.	1
STA. 129+66 LT.	1
STA. 175+06 RT.	1
STA. 188+27 RT.	1
STA. 193+62 LT.	1
STA. 208+71 RT.	1
STA. 92+38 RT.	1
(none on U.S. 136)	
Total =	16 EACH

MODIFY EXIST. CONC. FOUNDATION

LOCATION	EACH
Gilbert St. & Main St. (south cab.)	1
Gilbert St. & North St.	1
Gilbert St. & Harrison St.	1
Gilbert St. & Seminary St.	1
Gilbert St. & Shady Lane	1
Total =	6 EACH
FULL-ACTUATED CONTR. & TY. 4 CAB.	
LOCATION	EACH
IL 1	
Gilbert St. & Main St. (east cab.)	1
Gilbert St. & Main St. (south cab.)	1
Gilbert St. & North St.	1
Gilbert St. & Harrison St.	1
Gilbert St. & Seminary St.	1
Vermilion St. & Shady Lane	1
Total =	6 EACH

MODIFY EXISTING CONTROLLER CABINET

LOCATION	EACH
U.S. 150 & Logan Ave.	1
Gilbert St. & Fairchild St.	1
Fairchild St. & Vermilion St.	1
Vermilion St. & English St.	1
Vermilion St. & Vorhees St.	1
Vermilion St. & Winter Ave.	1
Vermilion St. & Carle Entrance	1
Vermilion St. & Hardee's Ent.	1
Vermilion St. & Village Mall	1
Vermilion St. & Liberty Lane	1
Vermilion St. & Boiling Spr. Rd.	1
Vermilion St. & Walmart Ent.	1
Vermilion St. & Newell Rd.	1
Main St. & Walnut St.	1
Main St. & Vermilion St.	1
Main St. & Hazel St.	1
Main St. & Buchanan St.	1
Main St. & Bowman St.	1
Main St. & Bismark St.	1
Main St. & Griffin St.	1
Total	20 EACH

FULL-ACTUATED CONTROLLER IN EXIST. CAB

LOCATION	EACH
U.S. 150 & Logan Ave.	1
Gilbert St. & Main St. (south cab.)	1
Gilbert St. & Fairchild St.	1
Gilbert St. & Vermilion St.	1
Vermilion St. & English St.	1
Vermilion St. & Vorhees St.	1
Vermilion St. & Winter Ave.	1
Vermilion St. & Carle Entrance	1
Vermilion St. & Village Mall	1
Vermilion St. & Lake Shore Dr.	1
Vermilion St. & Liberty Lane	1
Vermilion St. & Boiling Springs Rd.	1
Vermilion St. & Walmart Ent.	1
Vermilion St. & Newell Rd.	1
Main St. & Walnut St.	1
Main St. & Vermilion St.	1
Main St. & Hazel St.	1
Main St. & Buchanan St.	1
Main St. & Bowman St.	1
Main St. & Bismark St.	1
Main St. & Griffin St.	1
Main St. & Iowa St.	1
Total =	24 EACH

REMOVE EXIST. TRAF. CONT. & CABINET

LOCATION	EACH
Gilbert St. & Main St. (north cab.)	1
Gilbert St. & Main St. (south cab.)	1
Gilbert St. & Main St. (east cab.)	1
Gilbert St. & North St.	1
Gilbert St. & Harrison St.	1
Gilbert St. & Seminary St.	1
Vermilion St. & Shady Lane	1
Total =	7 EACH

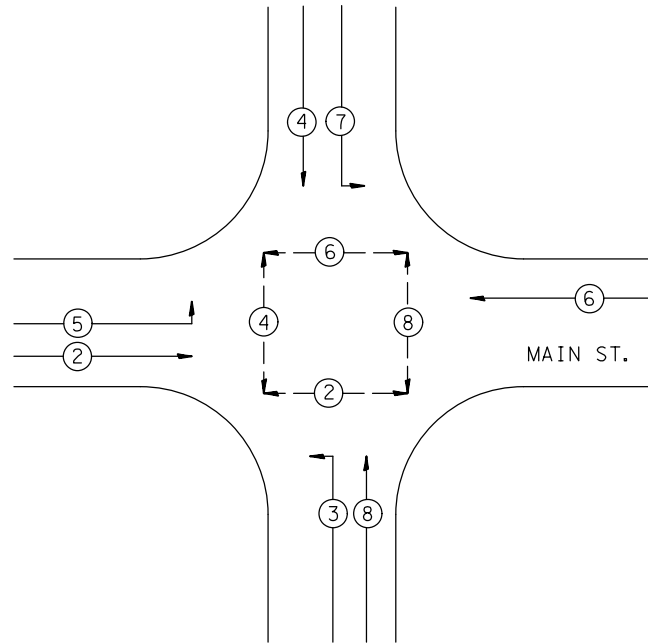
CAMERA MOUNT ASSEMBLY

LOCATION	EACH
Gilbert St. & Main St. - triangle N. mast pole	1
Gilbert St. & Fairchild - NE quad mast pole	1
Vermilion St. & Winter Ave. - SW quad mast pole	1
Vermilion St. & Lake Shore Dr. - SW quad mast pole	1
Total =	4 EACH

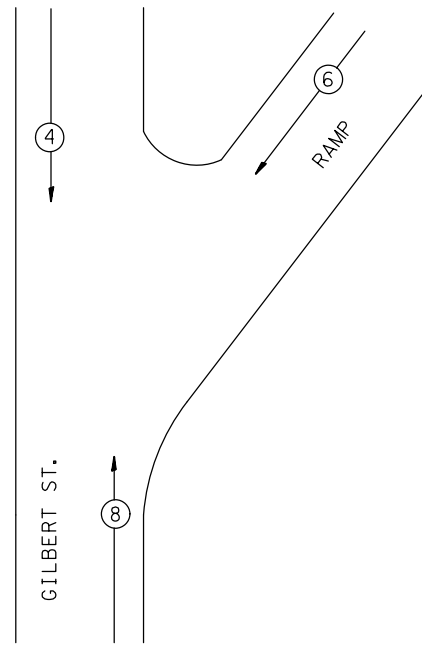
CLOSED CIRCUIT TELEVISION CAMERA

LOCATION	EACH
Gilbert St. & Main St. - triangle N. mast pole	1
Gilbert St. & Fairchild - NE quad mast pole	1
Fairchild St. & Vermilion St. - SW quad mast pole	1
Vermilion St. & Winter Ave. - SW quad mast pole	1
Vermilion St. & Lake Shore Dr. - SW quad mast pole	1
Main St. & Bowman Ave. - NW quad mast pole	1
Total =	6 EACH

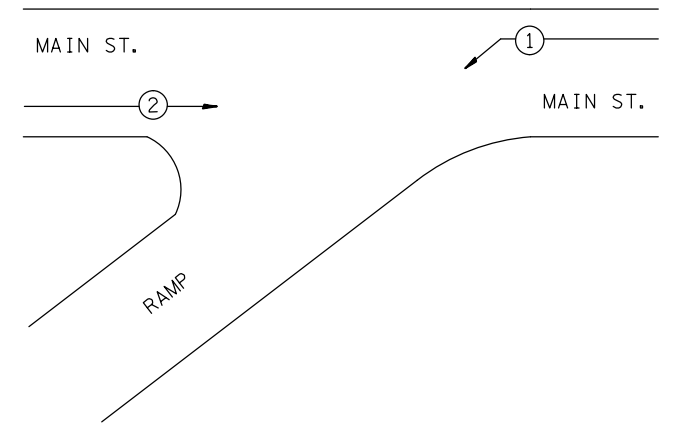
GILBERT ST. & MAIN ST.



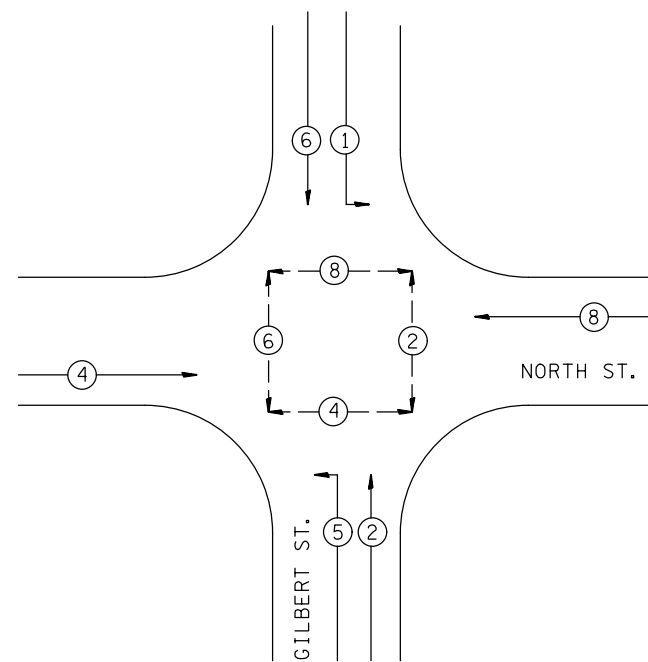
MAIN ST. (SOUTH) & GILBERT ST. RAMP



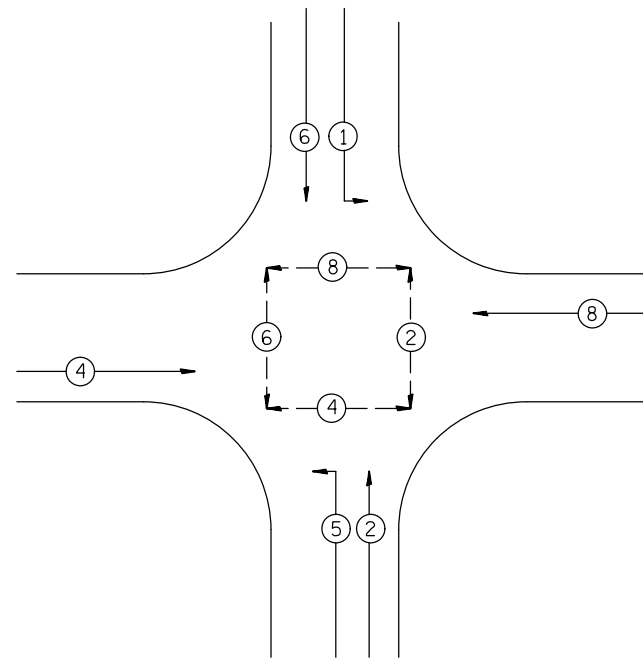
MAIN ST. (EAST) & GILBERT ST. RAMP



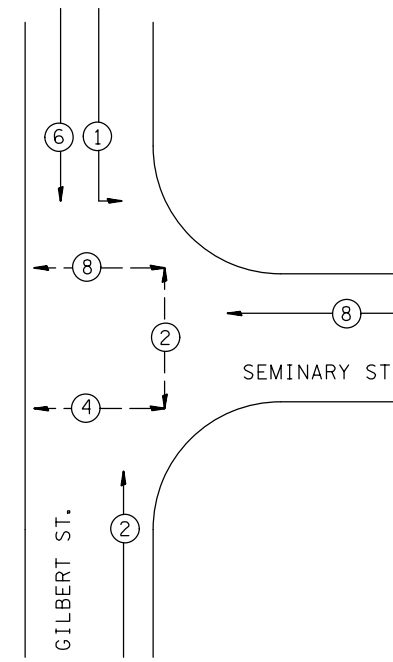
GILBERT ST. & NORTH ST.



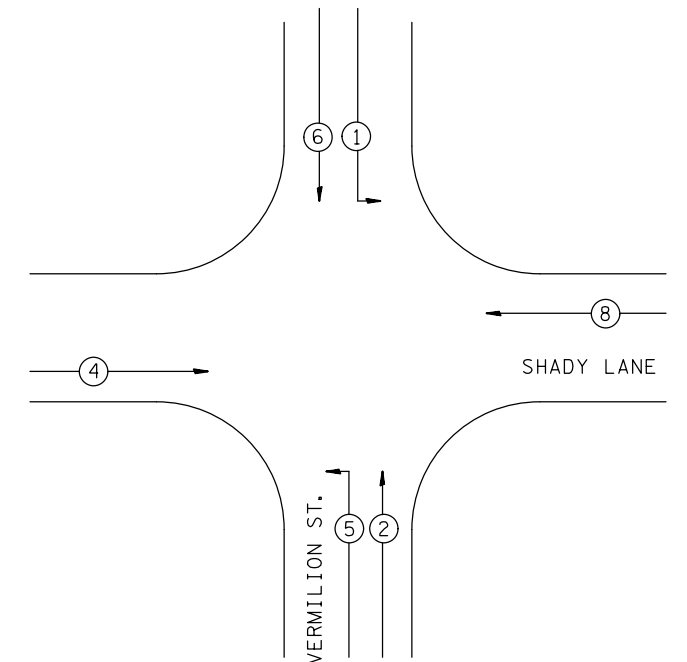
GILBERT ST. & HARRISON ST.



GILBERT ST. & SEMINARY ST.



VERMILION ST. & SHADY LANE



PHASE DESIGNATION DIAGRAMS

FILE NAME =	USER NAME = biggsrd	DESIGNED - RDB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULES				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwork\pwork\biggsrd\d0405929\PTZ	camera and Fiber Optic working file.dgn	DRAWN - RDB	REVISED -		SCALE: 20	SHEET	OF	SHEETS	STA.	TO STA.	VERMILION	73	73
MODELNAME	PLOT SCALE = 1574.8031' / m	CHECKED -	REVISED -						VAR.	FY2015 ITS-1	ILLINOIS	FED. AID PROJECT	
	PLOT DATE = 2/3/2015	DATE -	REVISED -										CONTRACT NO. 70A66