

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
**PROPOSED
 HIGHWAY PLANS**

FAU ROUTE 7708 (I55 BUS/5TH ST/LOGAN ST.)
 SECTION 20RS-1; (22 & 23)RS-4

TYPE OF IMPROVEMENT - 3P RESURFACING &
 TRAFFIC SIGNALS
 LOGAN COUNTY

STA. EQUATION:
 STA. 27 + 63.31 BK=
 STA. 3 + 84.13 AH

C-96-115-07

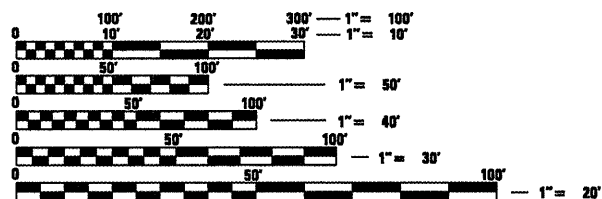
STA. 72 + 43.58
 END PROJECT

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
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26-28	DISTRICT DETAILS

HIGHWAY CLASSIFICATION

FUNCTIONAL CLASS: MINOR ARTERIAL
 ADT - 8,135
 PV - 93.6%
 SU - 4.7%
 MU - 1.7%

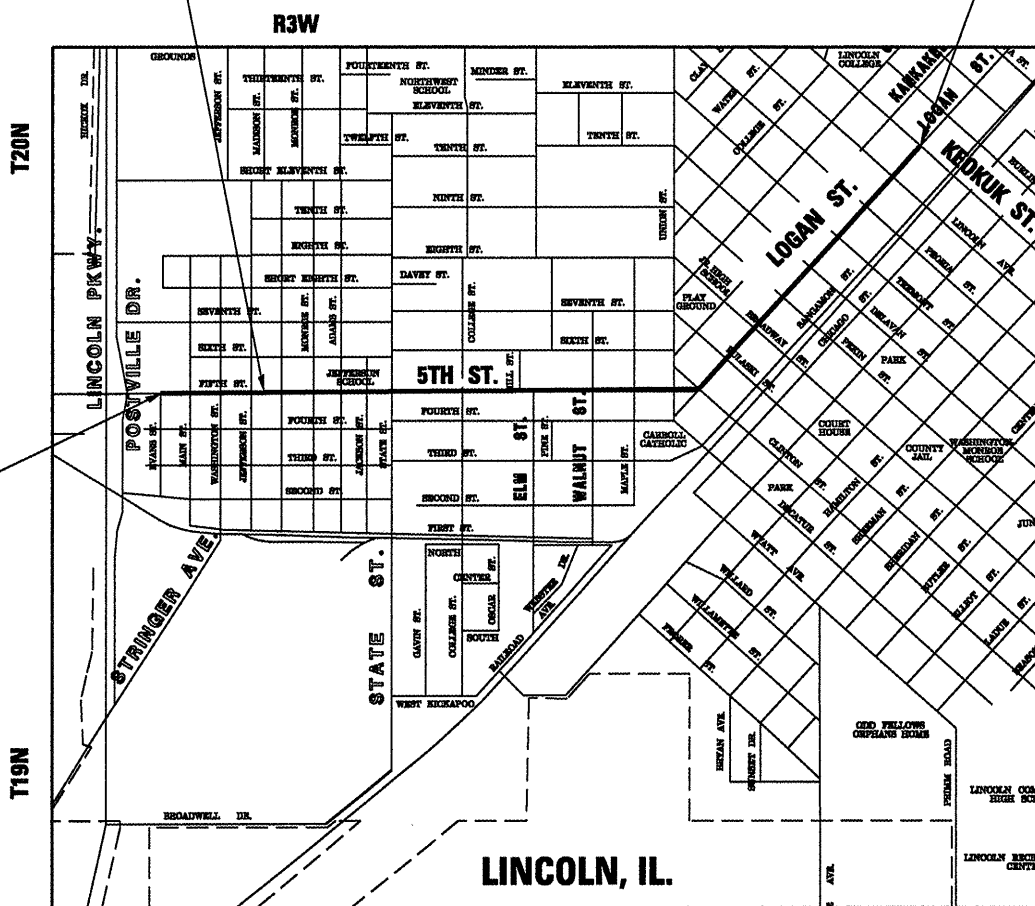


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: JOHN NEGANGARD (217) 782-6990
 PROJECT MANAGER: VICTOR YOUNG (217) 557-7897

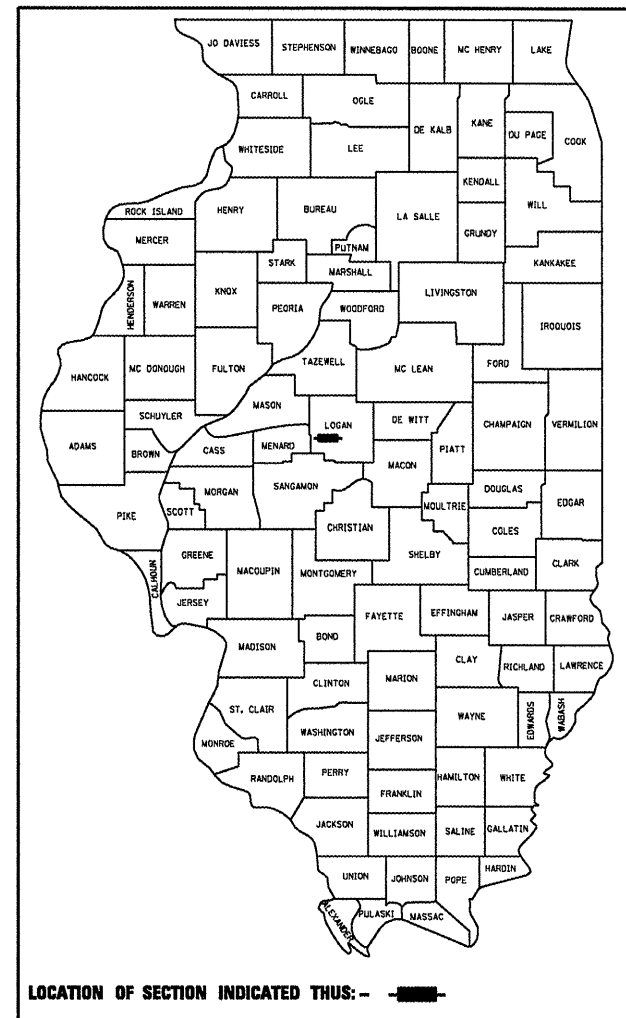
CONTRACT NO. 72B38



GROSS LENGTH = 7696.26 FT. = 1.457 MILE

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7708	20RS-1;(22&23) RS-4	LOGAN	28	1
		ILLINOIS	CONTRACT NO. 72B38	

D-96-115-07



LOCATION OF SECTION INDICATED THUS: - ■ -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

SUBMITTED April 8 2010
Reg Z Duff
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 7 2010
Scott E. Still, P.E., I&E
 acting ENGINEER OF DESIGN AND ENVIRONMENT

May 7 2010
Christine M. Reed, I&E
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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 OF THE STATE OF ILLINOIS

GENERAL NOTES:

- 1 ALL ELEVATIONS SHOWN IN THE PLANS ARE U. S. G. S. MEAN SEA LEVEL DATUM.
- 2 ANY REFERENCE TO THE STANDARDS THROUGHOUT THE PLANS SHALL BE INTERPRETED TO BE THE LATEST STANDARDS OF THE DEPARTMENT AS INCLUDED IN THE PLANS.
- 3 THE LOCATION OF THOSE BURIED AND ABOVE GROUND UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.26 OF THE STANDARD SPECIFICATIONS. THE J. U. L. I. E. NUMBER IS (800) 892-0123. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED, SEE SPECIAL PROVISIONS FOR STATUS OF UTILITIES, WITH UTILITY COMPANIES LISTED.
- 4 THE EXISTING ROAD SIGNS THAT INTERFERE WITH CONSTRUCTION SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER. AFTER THE CONSTRUCTION IS COMPLETE, THE CONTRACTOR SHALL REPLACE THE SIGNS AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT CONSIDERED INCLUDED IN THE CONTRACT UNIT BID PRICES.
- 5 ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH THE CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF RIGHT-OF-WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT BID PRICE FOR EARTH EXCAVATION. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 6 THE FOLLOWING APPLICATION RATES WERE USED FOR QUANTITY CALCULATIONS:

LEVELING BINDER	0.056 TON/SQ YD *in
BIT. CONC. SURF. CSE	0.056 TON/SQ YD *in
AGG. SHLDS./BASE CSE.	2.05 TON/CU.YD
BIT. MATLS. (P.C.)	0.00038 TON/SQ YD
AGG. (P.C.)	0.001425 TON/SQ YD
AG LIMESTONE	2 TON/ACRE
NITROGEN	90 LB/ACRE
PHOSPHORUS	90 LB/ACRE
POTASSIUM	90 LB/ACRE
MULCH, METHOD 2	2 TON/ACRE
- 7 ACCESS TO ALL PROPERTIES SHALL BE MAINTAINED DURING CONSTRUCTION ACTIVITIES. WHEN UNAVOIDABLE, REASONABLE PARKING SHALL BE PROVIDED FOR THOSE PROPERTIES WHICH ARE TEMPORARILY UNACCESSIBLE.

STANDARDS:

000001-05	701901-01	862001-01
001006	780001-02	873001-02
424001-05	781001-03	877001-04
442201-03	805001-01	878001-08
701501-05	814001-02	880006-01
701701-06	814006-02	
701801-04	857001-01	

COMMITMENTS

COMMITMENTS ARE NOT TO BE ALTERED WITHOUT THE WRITTEN APPROVAL OF ALL PARTIES TO WHICH THE COMMENTS WERE MADE.

1. THE RESIDENT ENGINEER SHALL CONTACT STUDIES AND PLANS CONCERNING ANY MAJOR PLAN CHANGES.
2. LETTER OF UNDERSTANDING WITH THE CITY OF LINCOLN.

DISTRICT SIX
EXAMINED <u>APRIL 1</u> 20 <u>10</u>
OPERATIONS ENGINEER
EXAMINED <u>MARCH 31</u> 20 <u>10</u>
PROGRAM IMPLEMENTATION ENGINEER
EXAMINED <u>MARCH 30</u> 20 <u>10</u>
PROGRAM DEVELOPMENT ENGINEER

MIXTURE USE(S):	HMA SURFACE	LEVELING BINDER	INCIDENTAL HMA SURFACING	PATCHING
PG	PG 64-22	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0% @ N70	4.0% @ N70	4.0% @ N50	4.0% @ N70
MIXTURE COMPOSITION (GRADATION MIXTURE)	IL 9.5 OR 12.5	IL 9.5	IL 9.5 OR 12.5	IL 19.0
FRICITION AGGREGATE	MIX D	N/A	MIX C	N/A

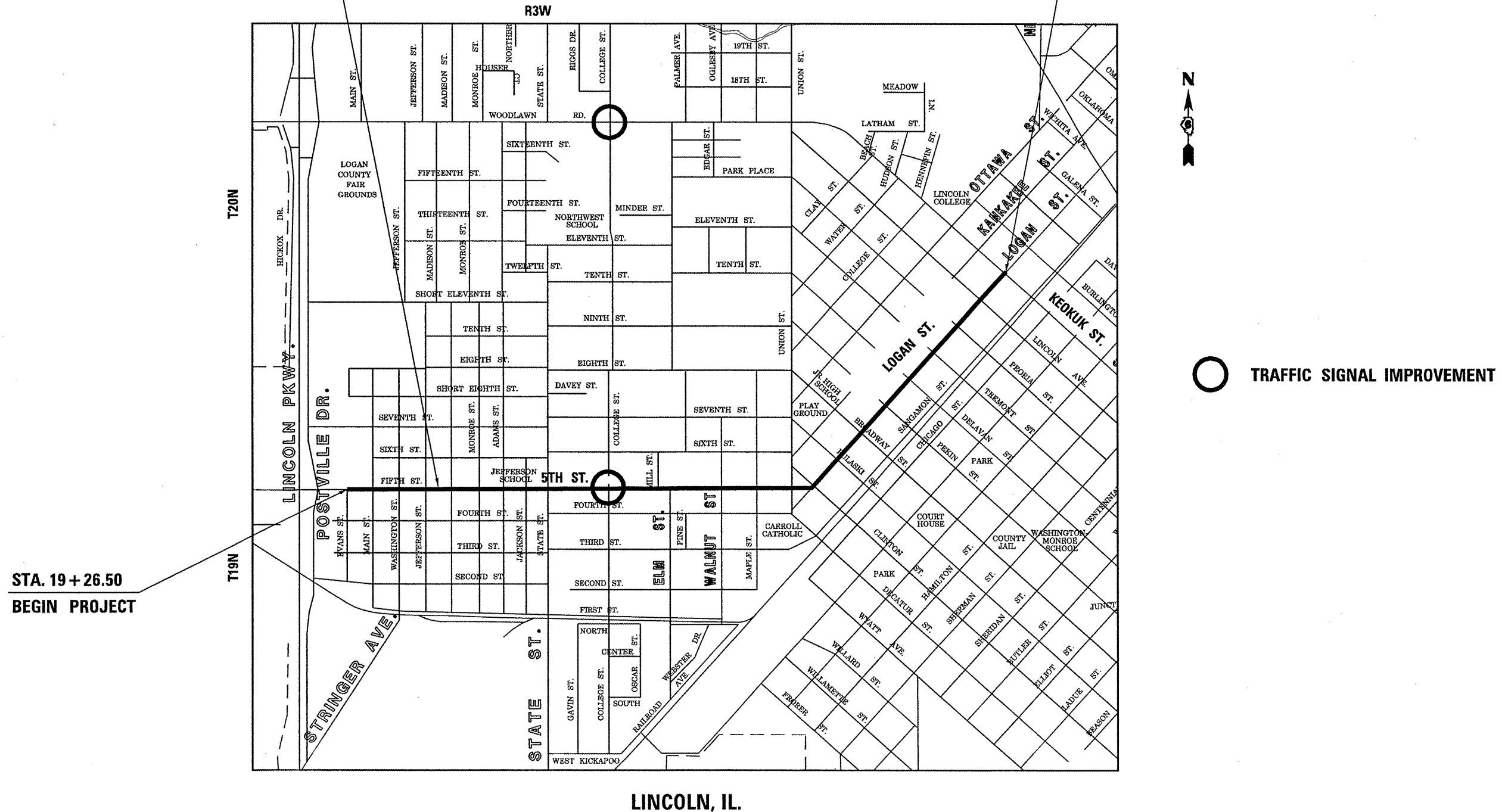
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7708	20RS-1(22&23) RS-4	LOGAN	28	3
		ILLINOIS	CONTRACT NO. 72B38	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

LOCATION MAP

STA. EQUATION:
STA. 27 + 63.31 BK =
STA. 3 + 84.13 AH

STA. 72 + 43.58
END PROJECT



STA. 19 + 26.50
BEGIN PROJECT



○ TRAFFIC SIGNAL IMPROVEMENT

LINCOLN, IL.

CODE NO.	ITEM	UNIT	SUMMARY OF QUANTITIES		Y031-1F		
			TOTAL QUANTITY	1000	100% STATE		
					ROADWAY	5TH ST & COLLEGE SIGNALS	WOODLAWN & COLLEGE SIGNALS
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	32.4	32.4			
40600300	AGGREGATE (PRIME COAT)	TON	46.7	46.7			
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	1634	1634			
40600895	CONSTRUCTING TEST STRIP	EACH	1	1			
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	3565.8	3565.8			
40600990	TEMPORARY RAMP	SQ YD	1395.5	1395.5			
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX D, N 70	TON	2451	2451			
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	492	492			
42400100	PORTLAND CEMENT CONCRETE SIDEWALK, 4"	SQ FT	4774.4	4774.4			
42400800	DETECTABLE WARNINGS	SQ FT	80	80			
44000600	SIDEWALK REMOVAL	SQ FT	4774.4	4774.4			
44200159	HOT-MIX ASPHALT SURFACE REMOVAL - 2 1/2"	SQ YD	32739.3	32739.3			
44200116	PAVEMENT PATCHING, TYPE I, 10 INCH	SQ YD	20	20			
44200120	PAVEMENT PATCHING, TYPE II, 10 INCH	SQ YD	300	300			
60255500	MANHOLES TO BE ADJUSTED	EACH	28	28			
60265700	VALVE VAULTS TO BE ADJUSTED	EACH	9	9			
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MD	12	12			
67100100	MOBILIZATION	L SUM	1	1			
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1			
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1			

CODE NO.	ITEM	UNIT	QUANTITY TOTAL	100% STATE		
				Y031-1F		
				ROADWAY 1000	5TH ST & COLLEGE SIGNALS	WOODLAWN & COLLEGE SIGNALS
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1		
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	2098	2098		
70300230	TEMPORARY PAVEMENT MARKING - LINE 5"	FOOT	6204	6204		
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	1477	1477		
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	15	15		
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	169	169		
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	292	292		
72000100	SIGN PANEL, TYPE I	SQ FT	17.5		17.5	
72000200	SIGN PANEL, TYPE II	SQ FT	75		22.5	52.5
* 78000300	THERMOPLASTIC PAVEMENT MARKING - LINE 5"	FOOT	4280	4280		
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	15	15		
* 78004220	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 5"	FOOT	1924	1924		
* 78004230	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6"	FOOT	1477	1477		
* 78004280	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 24"	FOOT	169	169		
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	98	98		
78300200	RAISED RELECTIVE PAVEMENT MARKER REMOVAL	EACH	98	98		
* 80500100	SERVICE INSTALLATION, TYPE A	EACH	1		1	
* 81012200	CONDUIT IN TRENCH, 3/4" DIA., PVC	FOOT	39		39	
* 81012500	CONDUIT IN TRENCH, 1 1/2" DIA., PVC	FOOT	63		63	

* SPECIALTY ITEM

CODE NO.	ITEM	UNIT	QUANTITY TOTAL	100% STATE		
				ROADWAY	5TH ST & COLLEGE SIGNALS	WOODLAWN & COLLEGE SIGNALS
				1000		
				Y031-1F		
81012600	CONDUIT IN TRENCH, 2" DIA., PVC	FOOT	50		6	44
81012800	CONDUIT IN TRENCH, 3" DIA., PVC	FOOT	10			10
81013000	CONDUIT IN TRENCH, 4" DIA., PVC	FOOT	4		4	
81021540	CONDUIT, AUGERED, 1 1/2" DIA., PVC	FOOT	11		11	
81021550	CONDUIT, AUGERED, 2" DIA., PVC	FOOT	27		27	
81021570	CONDUIT, AUGERED, 3" DIA., PVC	FOOT	277		194	83
81021590	CONDUIT, AUGERED, 4" DIA., PVC	FOOT	50			50
81400100	HANDHOLE	EACH	4		3	1
81400300	DOUBLE HANDHOLE	EACH	1		1	
81500120	GULFBOX JUNCTION, COMPOSITE CONCRETE	EACH	2		2	
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	166		112	54
83067120	LIGHT POLE, WOOD, 25 FOOT, CLASS 4	EACH	1		1	
85700200	FULL ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1			1
85700300	FULL ACTUATED CONTROLLER AND TYPE V CABINET	EACH	1		1	
86000100	MASTER CONTROLLER	EACH	1		1	
86200200	UNINTERRUPTIBLE POWER SUPPLY, STANDARD	EACH	1		1	
86400100	TRANSCEIVER - FIBER OPTIC	EACH	2		1	1
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14, 2 C	FOOT	178			178
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14, 3 C	FOOT	668.5		454	214.5
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14, 5 C	FOOT	1415		1102	314

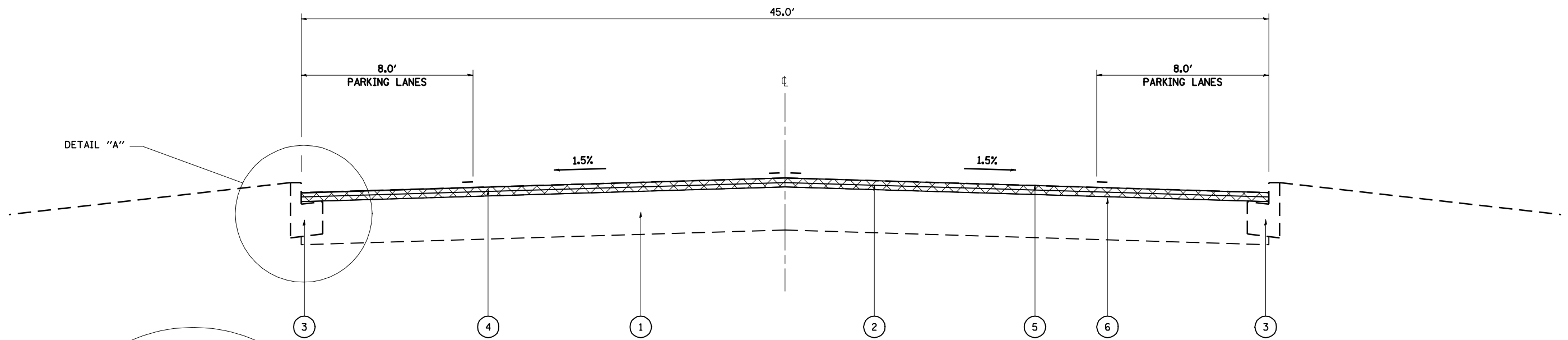
CODE NO.	ITEM	UNIT	QUANTITY TOTAL	100% STATE		
				ROADWAY	5TH ST & COLLEGE SIGNALS	WOODLAWN & COLLEGE SIGNALS
				1000		
				Y031-1F		
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14, 7 C	FOOT	775.5			775.5
87301265	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14, 9 C	FOOT	228.5			228.5
87301275	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14, 12 C	FOOT	482		482	
87301515	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18, 3 PAIR	FOOT	470		470	
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6, 2 C	FOOT	12		12	
87500700	TRAFFIC SIGNAL POST, ALUMINUM, 16 FT	EACH	4			4
87700120	STEEL MAST ARM ASSEMBLY AND POLE, 16 FT.	EACH	1		1	
87700150	STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.	EACH	2		1	1
87700160	STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	1			1
87700200	STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1		1	
87700230	STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1			1
87700290	STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	1		1	
87700260	STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	1			1
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	3		3	
87800400	CONCRETE FOUNDATION, TYPE E, 30" DIA.	FOOT	40		20	20
87800415	CONCRETE FOUNDATION, TYPE E, 38" DIA.	FOOT	48		24	24
87900100	DRILL EXISTING FOUNDATION	EACH	1			1
87900200	DRILL EXISTING HANDHOLE	EACH	3			3
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3			3
88040080	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	12		6	6

* SPECIALTY ITEM

SUMMARY OF QUANTITIES				Y031-1F		
CODE NO.	ITEM	UNIT	QUANTITY TOTAL	100% STATE		
				ROADWAY 1000	5TH ST. & COLLEGE SIGNALS	WOODLAWN & COLLEGE SIGNALS
88040160	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	4			4
88040260	SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION BRACKET MOUNTED	EACH	3			3
88040330	SIGNAL HEAD, POLYCARBONATE, LED, 3-FACE, 2-3 SECTION, 1-5 SECTION BRACKET MOUNTED	EACH	1			1
88040355	SIGNAL HEAD, POLYCARBONATE, LED, 3-FACE, 3 SECTION, BRACKET MOUNTED	EACH	4		4	
88102845	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	6		4	2
88200100	TRAFFIC SIGNAL BACKPLATE	EACH	36		18	18
88500100	INDUCTIVE LOOP DETECTOR	EACH	32		10	22
88600100	DETECTOR LOOP, TYPE I	FOOT	1042		1042	
88800100	PEDESTRIAN PUSHBUTTON	EACH	16		8	8
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1			1
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	4			4
X0323153	ELECTRIC CABLE IN CONDUIT, GROUND, #6 1 C (GREEN)	FOOT	617.5		267.5	350
X8810280	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	4			4
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	10	10		
66900450	SPECIAL WASTE PLANS AND REPORTS	LSUM	1	1		
66900510	BTEX-PNAS SOIL ANALYSIS	EACH	4	4		
66900530	SOIL DISPOSAL ANALYSIS	EACH	4	4		
66900695	LEAD TCLP SOIL ANALYSIS	EACH	4	4		

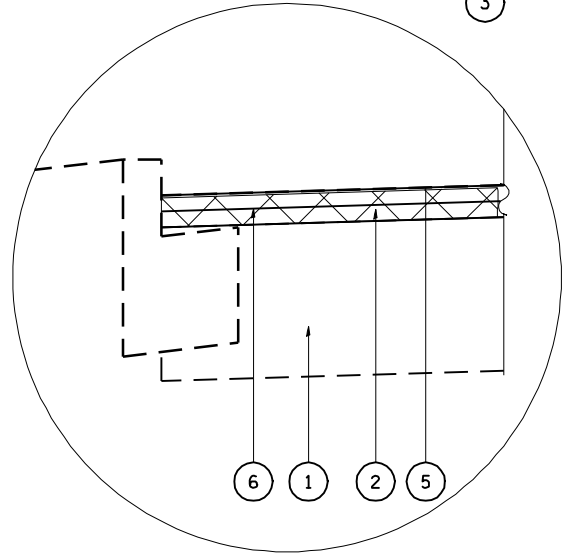
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* SPECIALTY ITEM

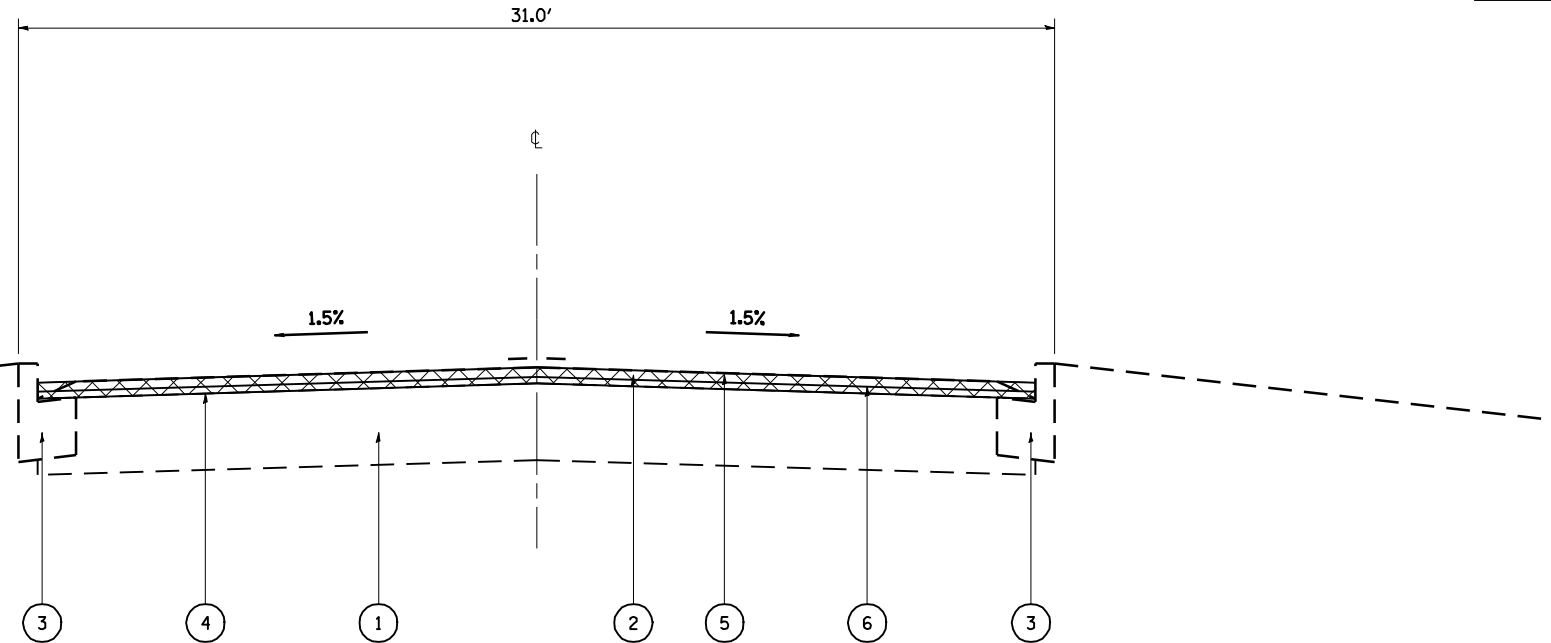


STA. 19+26.50 - 27+63.31
 STA. 3+84.13 - 16+00.00

STATION EQUATION:
 STA. 27+63.31 (BK) =
 STA. 3+84.13 (AH)



DETAIL "A"



STA. 16+00.00 - 72+43.58

- ① EXISTING PCC PAVEMENT, 7"
- ② EXISTING HMA, 2 1/2"
- ③ EXISTING CONCRETE CURB & GUTTER
- ④ PROP. HOT-MIX ASPHALT SURFACE REMOVAL - 2 1/2"
- ⑤ PROP. HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70, 1 1/2"
- ⑥ PROP. LEVELING BINDER (MACHINE METHOD), N70, 1"

FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
e:\pwork\pwork\LAUGHLINRL\dma50958\672838-ah-typical.dgn		DRAWN -	REVISED -		7708	20RS-1, (22 & 23)RS-4	LOGAN	28	7				
PLOT SCALE = 10.0000' / IN.		CHECKED -	REVISED -		CONTRACT NO. 72B38								
PLOT DATE = Apr-09-2010 09:52:08AM		DATE -	REVISED -		ILLINOIS FED. AID PROJECT								
					SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.				

INCIDENTAL HOT-MIX ASPHALT SURFACING	
LOCATION	TON
<u>MAIN ST INTERSECTION</u>	
NORTH-SIDE	16.3
SOUTH-SIDE	18.2
<u>WASHINGTON ST INTERSECTION</u>	
NORTH-SIDE	11.1
SOUTH-SIDE	18.7
<u>JEFFERSON ST INTERSECTION</u>	
NORTH-SIDE	14.5
SOUTH-SIDE	13.7
<u>MADISON ST INTERSECTION</u>	
NORTH-SIDE	14.1
SOUTH-SIDE	14.0
<u>MONROE ST INTERSECTION</u>	
NORTH-SIDE	11.4
SOUTH-SIDE	13.0
<u>ADAMS ST INTERSECTION</u>	
NORTH-SIDE	10.1
SOUTH-SIDE	10.9
<u>JACKSON ST INTERSECTION</u>	
NORTH-SIDE	9.5
SOUTH-SIDE	8.2
<u>STATE ST INTERSECTION</u>	
NORTH-SIDE	9.9
SOUTH-SIDE	6.8
<u>COLLEGE ST INTERSECTION</u>	
NORTH-SIDE	9.8
SOUTH-SIDE	16.8
<u>MILL ST</u>	
NORTH-SIDE	5.8
<u>ELM ST</u>	
SOUTH-SIDE	9.4
<u>PINE ST</u>	
SOUTH-SIDE	8.2
<u>WALNUT ST INTERSECTION</u>	
NORTH-SIDE	8.0
SOUTH-SIDE	8.0
TOTAL	266.4

INCIDENTAL HOT-MIX ASPHALT SURFACING	
LOCATION	TON
<u>MAPLE ST INTERSECTION</u>	
NORTH-SIDE	9.2
SOUTH-SIDE	9.9
<u>UNION ST INTERSECTION</u>	
NORTH-SIDE	11.3
SOUTH-SIDE	10.7
<u>CLINTON ST INTERSECTION</u>	
NORTH-SIDE	11.7
SOUTH-SIDE	14.8
<u>PULASKI ST INTERSECTION</u>	
NORTH-SIDE	8.5
SOUTH-SIDE	9.4
<u>BROADWAY ST INTERSECTION</u>	
NORTH-SIDE	9.7
SOUTH-SIDE	18.6
<u>PEKIN ST INTERSECTION</u>	
NORTH-SIDE	8.1
SOUTH-SIDE	10.4
<u>DELAVAN ST INTERSECTION</u>	
NORTH-SIDE	7.8
SOUTH-SIDE	8.7
<u>TREMONT ST INTERSECTION</u>	
NORTH-SIDE	8.2
SOUTH-SIDE	8.3
<u>PEORIA ST INTERSECTION</u>	
NORTH-SIDE	7.6
SOUTH-SIDE	12.5
<u>LINCOLN ST INTERSECTION</u>	
NORTH-SIDE	20.6
SOUTH-SIDE	19.4
TOTAL	225.4

HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70 @ 1 1/2"	
LOCATION	TON
<u>MAIN-LINE</u>	
STA 19+26.50 TO 72+43.58	2,451.0
TOTAL	2,451.0

LEVELING BINDER (MACHINE METHOD), N70 @ 1"	
LOCATION	TON
<u>MAIN-LINE</u>	
STA 19+26.50 TO 72+43.58	1,634.0
TOTAL	1,634.0

HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	
LOCATION	SQ YD
<u>MAIN-LINE</u>	
STA 19+26.50 TO 72+43.58	29,173.5
SIDERoads	3,565.8
TOTAL	32,739.3

PORTLAND CEMENT CONCRETE SIDEWALK, 4"	
LOCATION	SQ FT
<u>5TH ST & COLLEGE ST</u>	
NW QUAD	129.3
NE QUAD	36
SW QUAD	41.6
SE QUAD	36.5
<u>WOODLAWN RD & COLLEGE ST</u>	
SE QUAD	56
<u>MAIN-LINE</u>	
LT STA 19+19 TO 20+42	615
RT STA 19+62 TO 20+39	385
RT STA 25+02 TO 25+41	195
LT STA 27+22 TO 27+68	230
LT STA 32+13 TO 33+97	920
RT STA 31+37 TO 33+75	1190
RT STA 56+75 TO 58+63	940
TOTAL	4,774.4

DETECTABLE WARNINGS	
LOCATION	SQ FT
<u>5TH ST & COLLEGE ST</u>	
NW QUAD	20
NE QUAD	20
SW QUAD	20
SE QUAD	20
TOTAL	80

PREFORMED PLASTIC PAVEMENT MARKING , TYPE B - INLAID - LINE 5"	
LOCATION	FOOT
STA 19+26.50 TO 27+63.31	
STA 3+84.13 TO 72+43.58	
5" SKIP-DASH (YELLOW)	1,924.0
TOTAL	1,924.0

PREFORMED PLASTIC PAVEMENT MARKING , TYPE B - INLAID - LINE 24"	
LOCATION	FOOT
<u>STOPS BARS (WHITE)</u>	
5TH ST & WASHINGTON ST	24
5TH ST & BROADWAY ST	55
5TH ST & COLLEGE ST	90
TOTAL	169

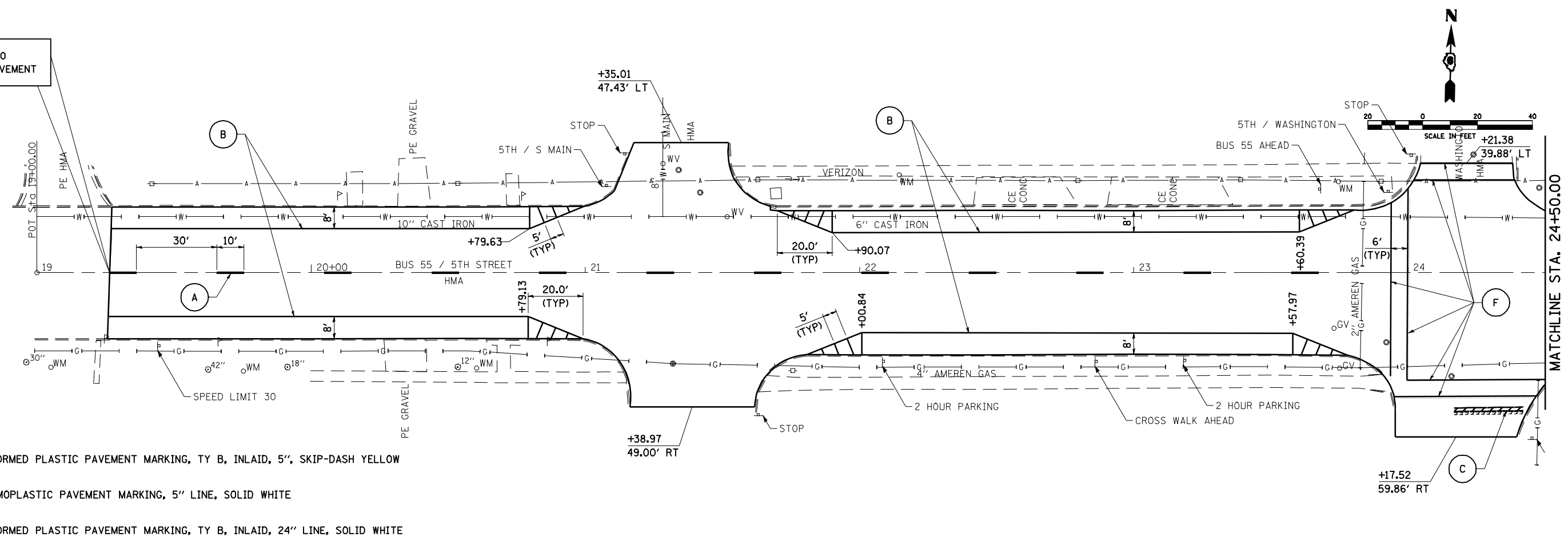
PREFORMED PLASTIC PAVEMENT MARKING , TYPE B - INLAID - LINE 6"	
LOCATION	FOOT
<u>6" WHITE CROSS-WALKS (WHITE)</u>	
5TH ST & WASHINGTON ST	230
5TH ST & ADAMS ST	98
5TH ST & MAPLE ST	62
5TH ST & BROADWAY ST	343
5TH ST & COLLEGE ST	364
LOGAN ST & CLINTON ST	80
LOGAN ST & PULASKI ST	180
LOGAN ST & PEKIN ST	60
LOGAN ST & TREMONT ST	60
TOTAL	1,477.0

THERMOPLASTIC PAVEMENT MARKING - LINE 5"	
LOCATION	FOOT
<u>PARKING LANES (WHITE)</u>	
LT STA 19+26.50 TO 20+79.63	174
RT STA 19+26.50 TO 20+79.13	173
LT STA 21+90.07 TO 23+60.39	211
RT STA 22+00.84.50 TO 23+57.97	198
LT STA 24+81 TO 26+41	200
RT STA 25+09 TO 26+51	182
LT STA 27+61 TO 27+63.31	23
LT STA 3+84.13 TO 5+46	182
RT STA 27+60 TO 27+63.31	24
RT STA 3+84.13 TO 5+45	181
LT STA 6+57 TO 8+33	216
RT STA 6+58 TO 8+35	217
LT STA 9+51 TO 11+00	189
RT STA 9+46 TO 11+00	194
LT STA 12+11 TO 13+45	174
RT STA 12+07 TO 13+45	178
LT STA 14+44 TO 15+73	169
RT STA 14+39 TO 15+24	125
TOTAL	3,010.0

THERMOPLASTIC PAVEMENT MARKING - LINE 12"	
LOCATION	FOOT
12" LINE @ PAINTED MEDIAN SOLID YELLOW DIAGONALS	15
TOTAL	15.0

THERMOPLASTIC PAVEMENT MARKING - LINE 5"	
LOCATION	FOOT
<u>DOUBLE YELLOW</u>	
STA 71+94.08 TO 72+43.58	198.0
<u>5" DOUBLE YELLOW</u>	
STA 42+85.49 TO 48+21.51	1,072.0
TOTAL	1,270.0

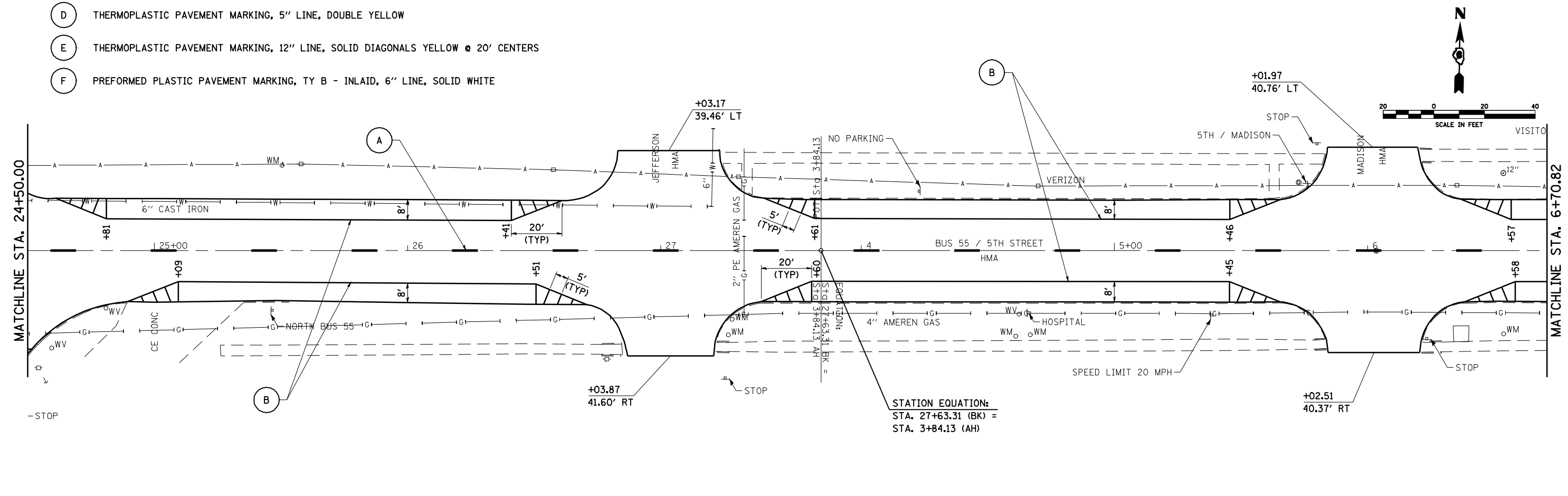
STA. 19+26.50
BEGIN IMPROVEMENT



LEGEND

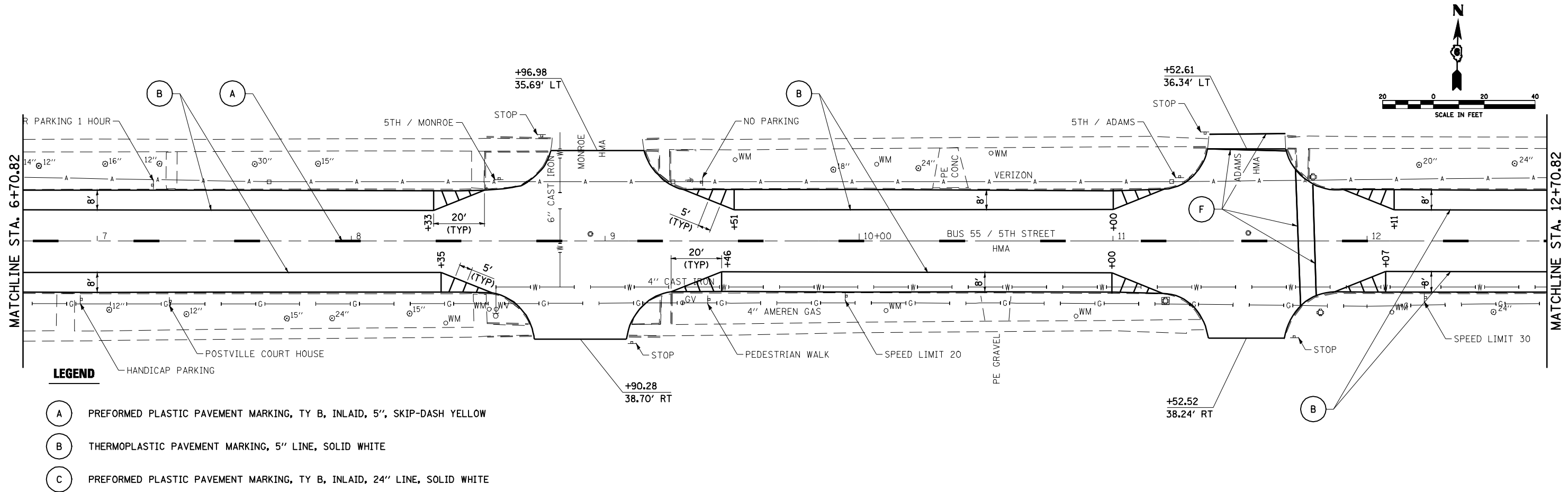
- (A) PREFORMED PLASTIC PAVEMENT MARKING, TY B, INLAID, 5", SKIP-DASH YELLOW
- (B) THERMOPLASTIC PAVEMENT MARKING, 5" LINE, SOLID WHITE
- (C) PREFORMED PLASTIC PAVEMENT MARKING, TY B, INLAID, 24" LINE, SOLID WHITE

- (D) THERMOPLASTIC PAVEMENT MARKING, 5" LINE, DOUBLE YELLOW
- (E) THERMOPLASTIC PAVEMENT MARKING, 12" LINE, SOLID DIAGONALS YELLOW @ 20' CENTERS
- (F) PREFORMED PLASTIC PAVEMENT MARKING, TY B - INLAID, 6" LINE, SOLID WHITE



STATION EQUATION:
STA. 27+63.31 (BK) =
STA. 3+84.13 (AH)

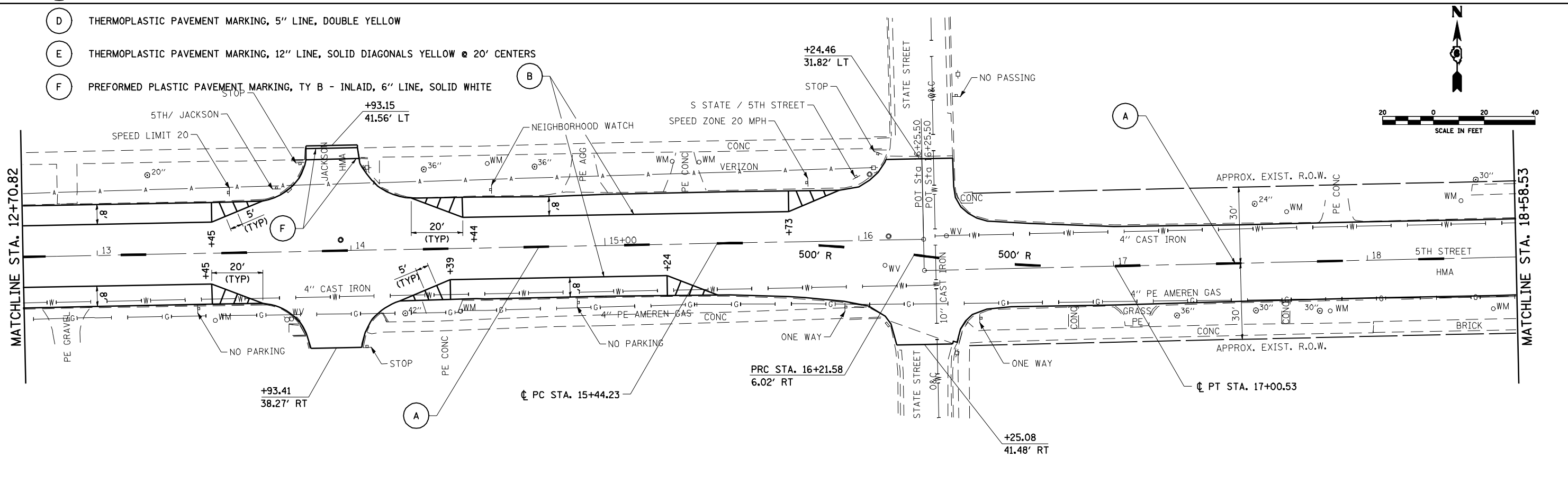
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er:\pwork\p\WIDOT\LAUGHLINRL\dms50958\	672838-SHT-pmk.dgn	DRAWN -	REVISED -					7708	20RS-1 (22 & 23)RS-4	LOGAN	28	10
	PLOT SCALE = 40.0000' / IN.	CHECKED -	REVISED -					CONTRACT NO. 72B38				
	PLOT DATE = Apr-09-2010 09:52:21AM	DATE -	REVISED -					ILLINOIS FED. AID PROJECT				



LEGEND

- (A) PREFORMED PLASTIC PAVEMENT MARKING, TY B, INLAID, 5", SKIP-DASH YELLOW
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- (F) PREFORMED PLASTIC PAVEMENT MARKING, TY B - INLAID, 6" LINE, SOLID WHITE



FILE NAME =
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USER NAME = laughlinr1
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 PLOT DATE = Apr-09-2010 09:52:25AM

DESIGNED -
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 DATE -

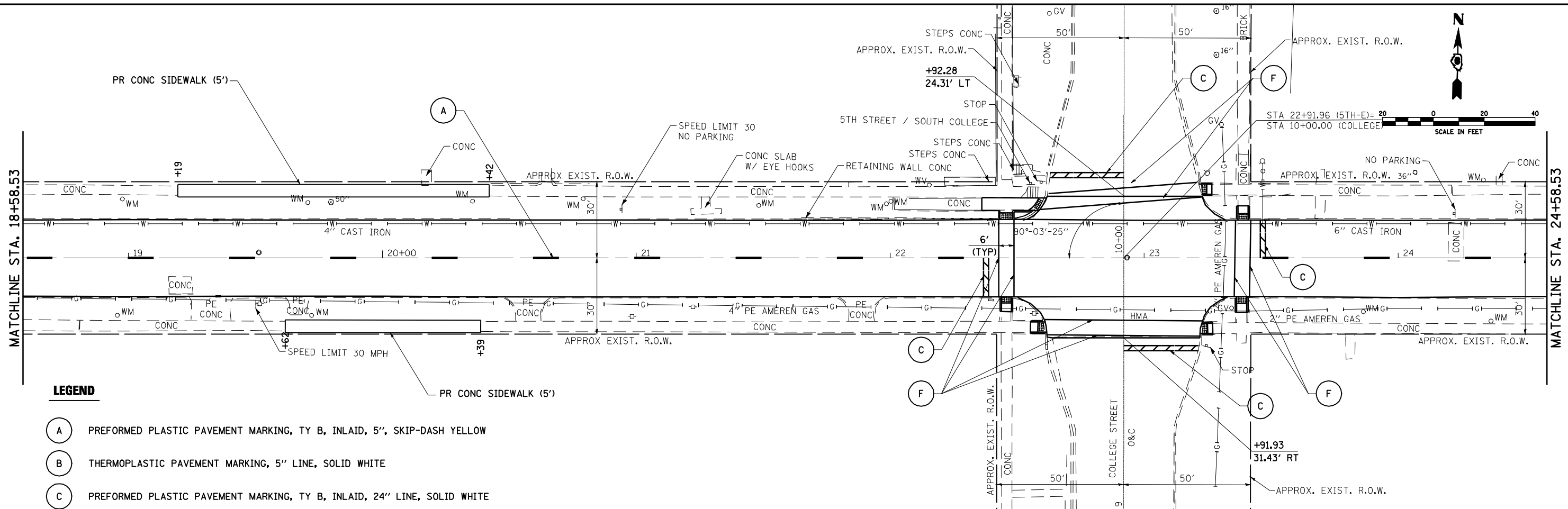
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PLAN & PAVEMENT MARKING SHEET

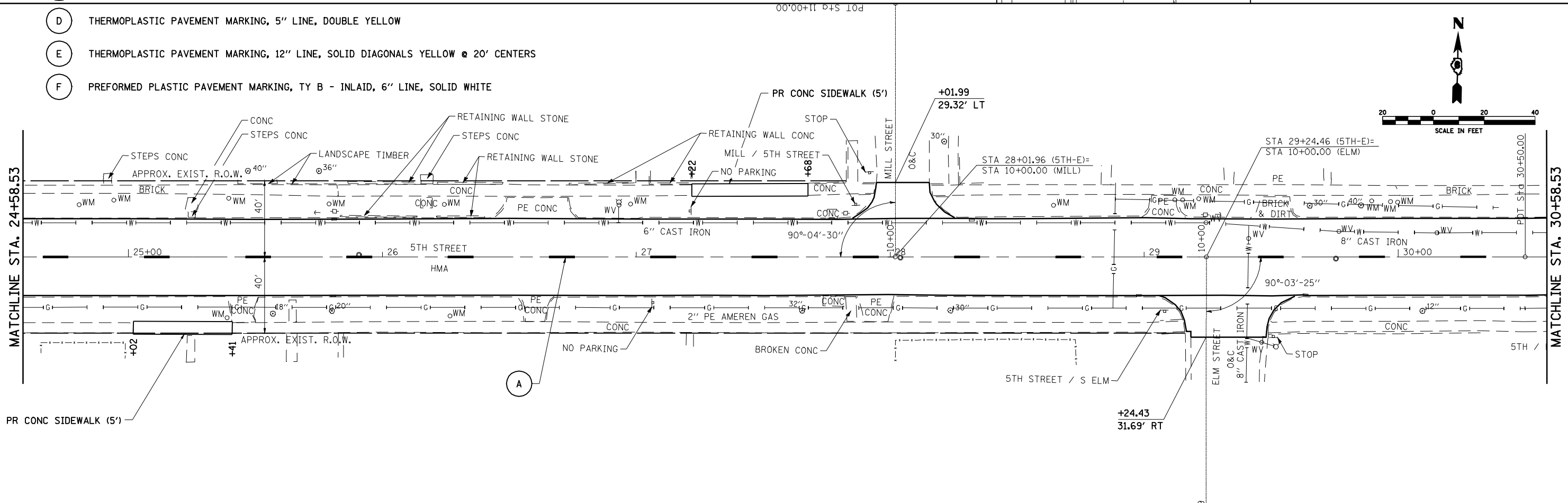
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7708	20RS-1 (22 & 23)RS-4	LOGAN	28	11
CONTRACT NO. 72B38			ILLINOIS FED. AID PROJECT	

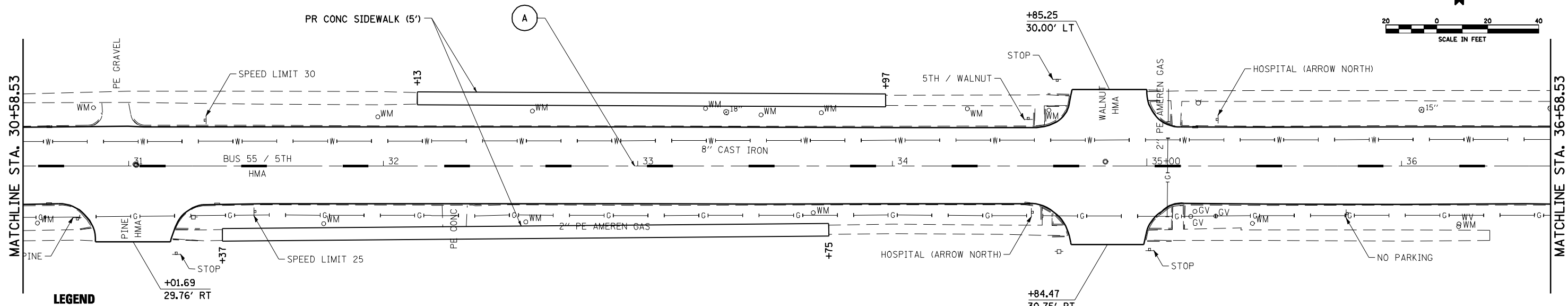


LEGEND

- (A) PREFORMED PLASTIC PAVEMENT MARKING, TY B, INLAID, 5", SKIP-DASH YELLOW
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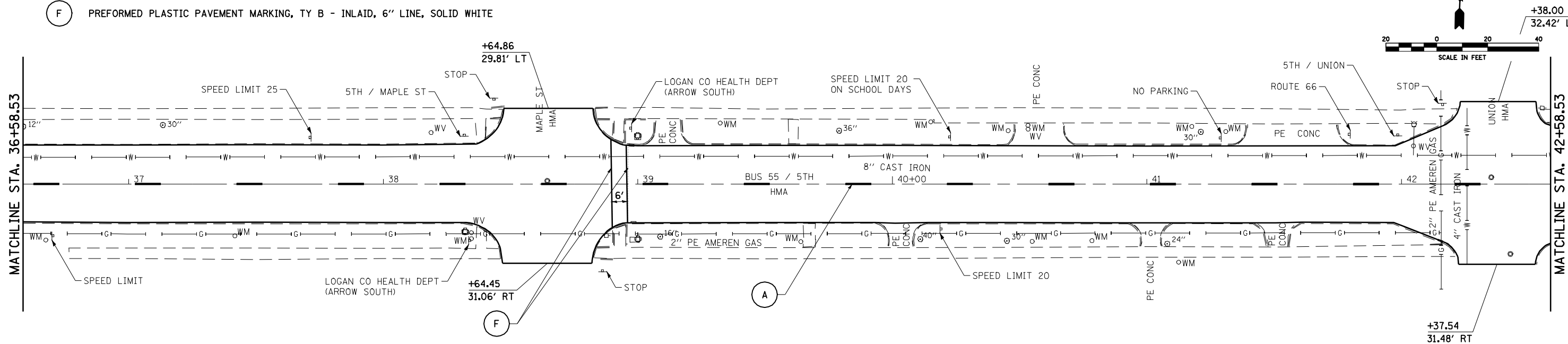


FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN & PAVEMENT MARKING SHEET			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
es:\pwwork\PIWIDOT\LAUGHLINRL\dms50958\	672838-SHT-pmk.dgn	DRAWN -	REVISED -					7708	20RS-1 (22 & 23)RS-4	LOGAN	28	12
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LEGEND

- (A) PREFORMED PLASTIC PAVEMENT MARKING, TY B, INLAID, 5", SKIP-DASH YELLOW
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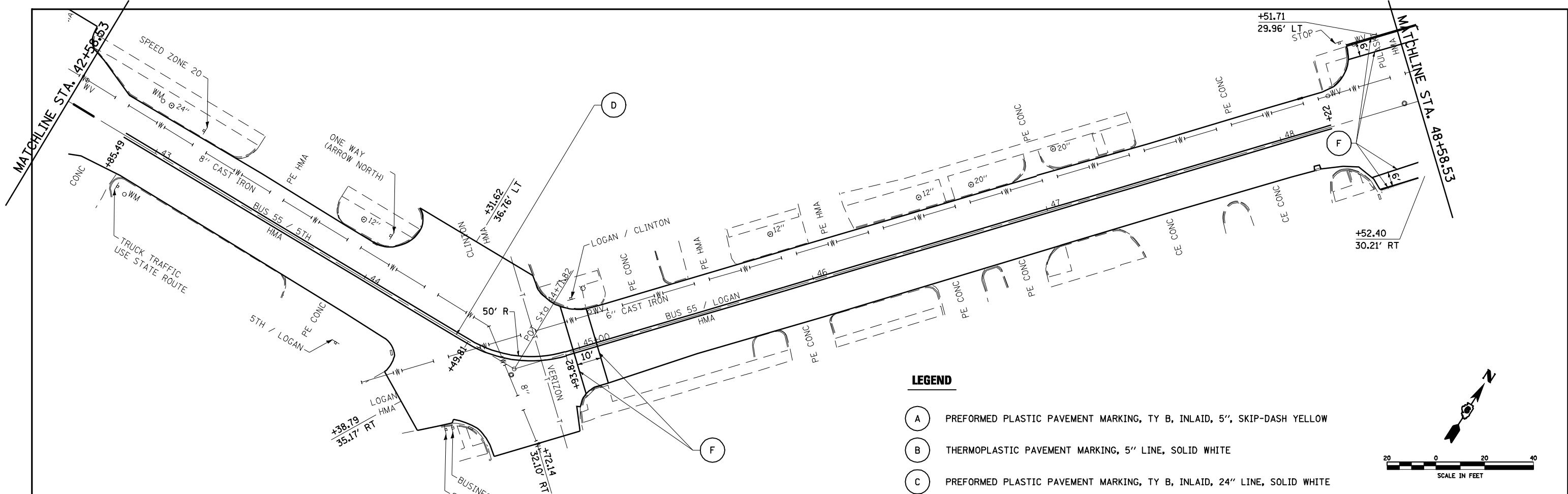
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PLAN & PAVEMENT MARKING SHEET

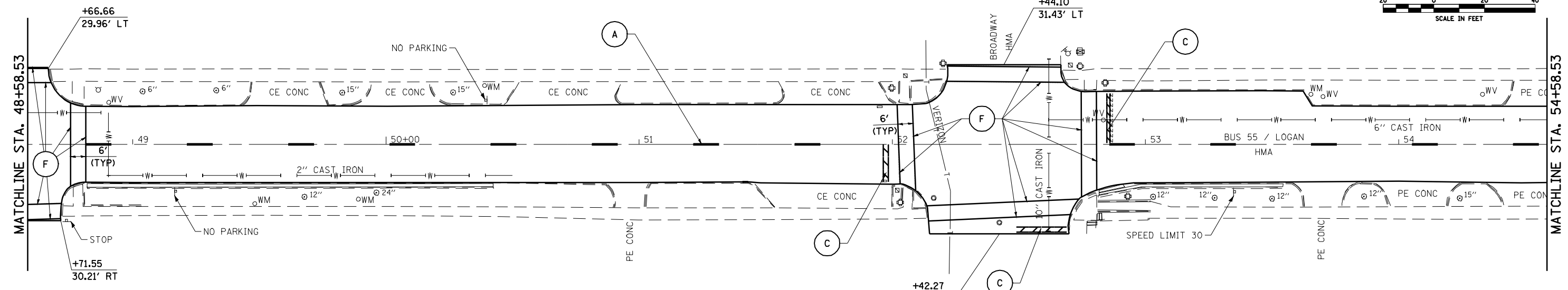
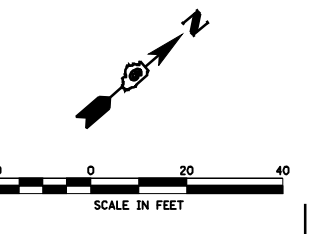
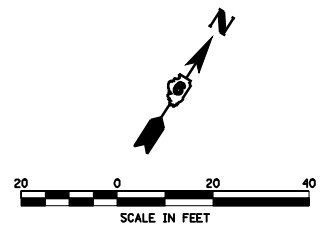
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 72B38			ILLINOIS FED. AID PROJECT	

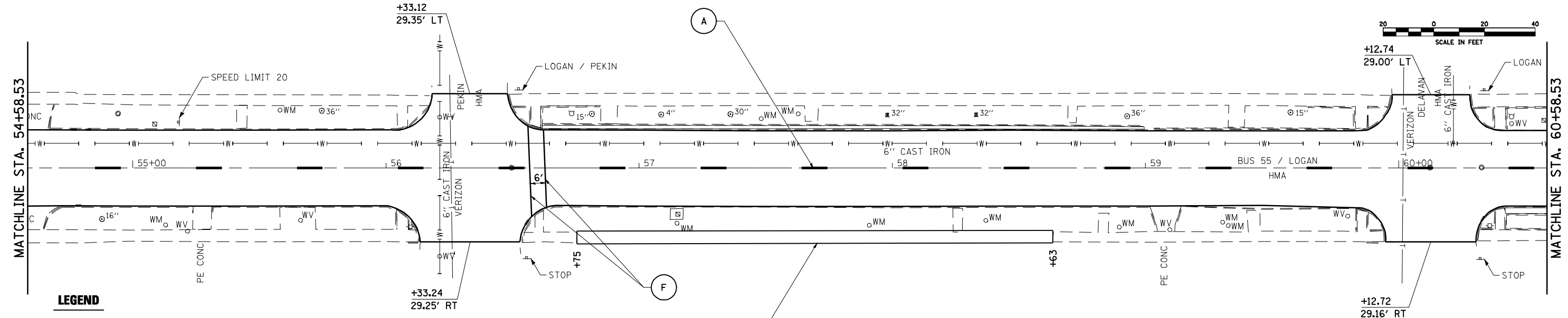
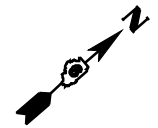


LEGEND

- (A) PREFORMED PLASTIC PAVEMENT MARKING, TY B, INLAID, 5", SKIP-DASH YELLOW
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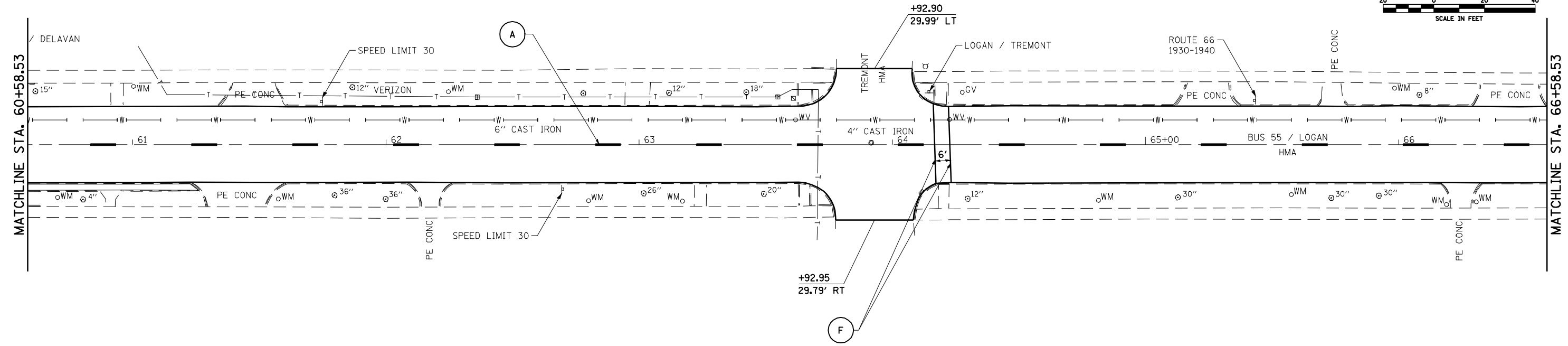
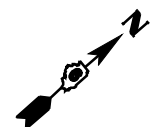


FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN & PAVEMENT MARKING SHEET			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		DATE -	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.			



LEGEND

- (A) PREFORMED PLASTIC PAVEMENT MARKING, TY B, INLAID, 5", SKIP-DASH YELLOW
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FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -
e:\pwwork\p\WIDOT\LAUGHLINRL\dms50958\672838-SHT-pmk.dgn		DRAWN -	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

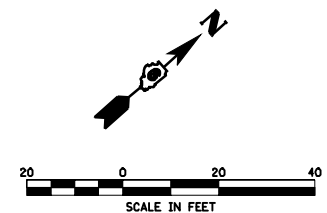
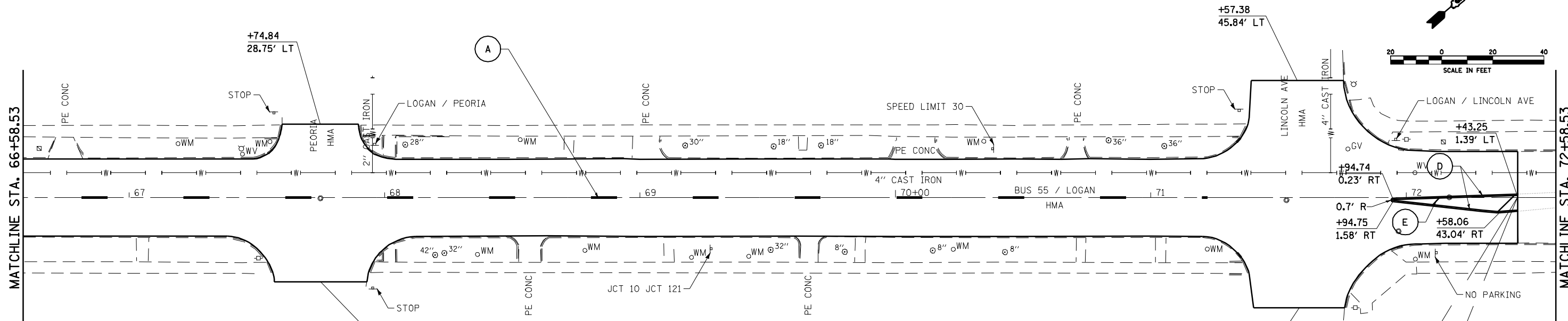
PLAN & PAVEMENT MARKING SHEET

SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7708	20RS-1 (22 & 23)RS-4	LOGAN	28	15
CONTRACT NO. 72B38			ILLINOIS FED. AID PROJECT	

MATCHLINE STA. 66+58.53

MATCHLINE STA. 72+58.53

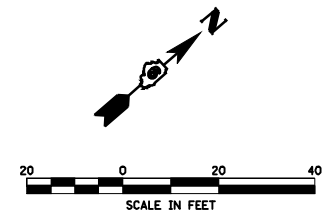
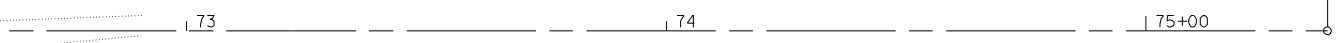
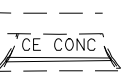


LEGEND

- (A) PREFORMED PLASTIC PAVEMENT MARKING, TY B, INLAID, 5', SKIP-DASH YELLOW
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STA. 72+43.58
END IMPROVEMENT

MATCHLINE STA. 72+58.53



FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -
es:\pwork\PWIDOT\LAUGHLINRL\dms50958\7272838-SHT-pmk.dgn		DRAWN -	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN & PAVEMENT MARKING SHEET

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7708	20RS-1 (22 & 23)RS-4	LOGAN	28	16
CONTRACT NO. 72B38			ILLINOIS FED. AID PROJECT	

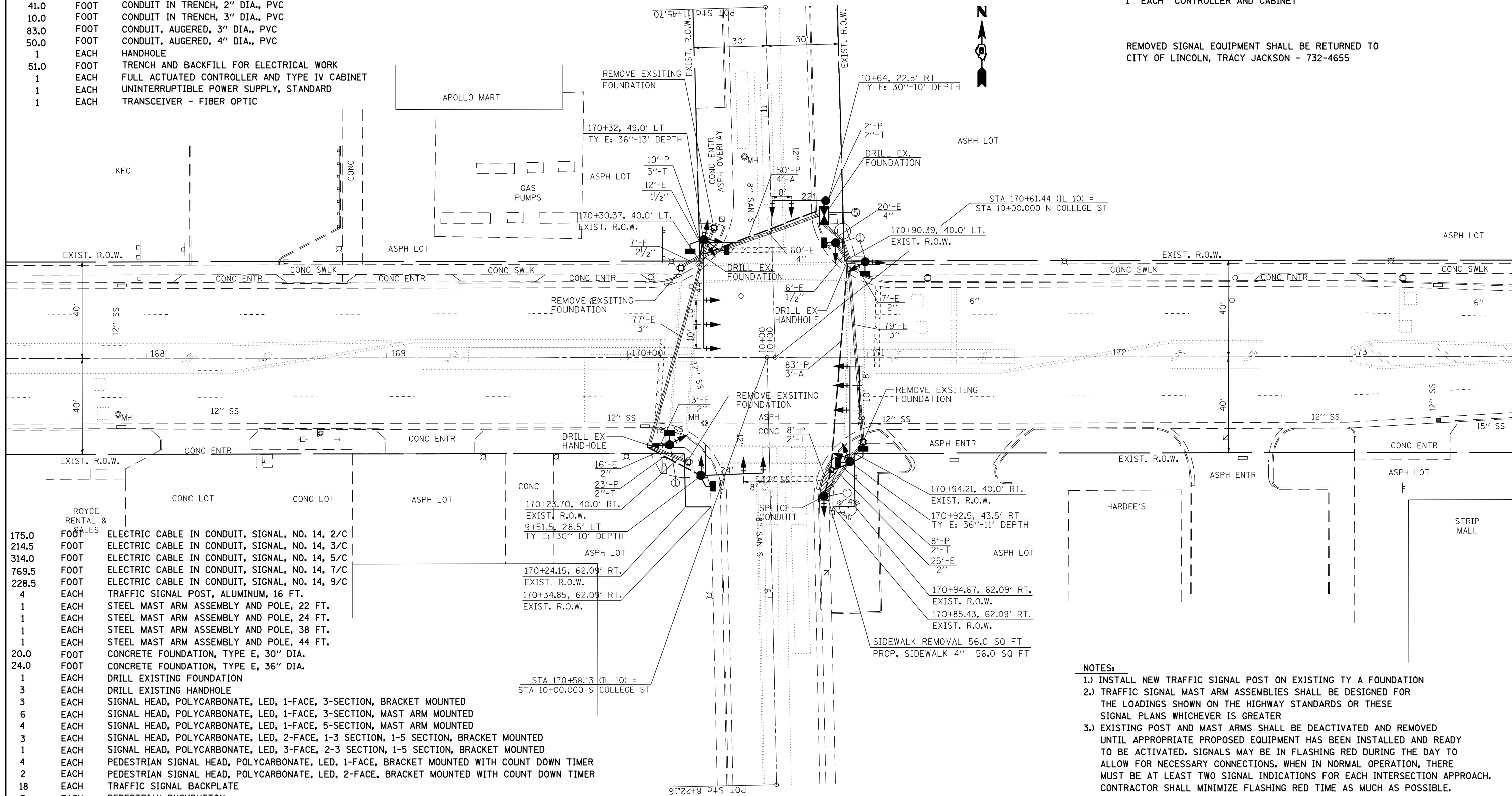
TRAFFIC SIGNAL QUANTITIES
LOCATION: WOODLAWN ST & COLLEGE ST (LINCOLN)

QUANTITY	UNIT	ITEM
56.0	SQ FT	PORTLAND CEMENT CONCRETE SIDEWALK, 4"
56.0	SQ FT	SIDEWALK REMOVAL
52.5	SQ FT	SIGN PANEL, TYPE II
41.0	FOOT	CONDUIT IN TRENCH, 2" DIA., PVC
10.0	FOOT	CONDUIT IN TRENCH, 3" DIA., PVC
83.0	FOOT	CONDUIT, AUGERED, 3" DIA., PVC
50.0	FOOT	CONDUIT, AUGERED, 4" DIA., PVC
1	EACH	HANDHOLE
51.0	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1	EACH	FULL ACTUATED CONTROLLER AND TYPE IV CABINET
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, STANDARD
1	EACH	TRANSCEIVER - FIBER OPTIC

TRAFFIC SIGNAL EQUIPMENT TO BE REMOVED

2	EACH	MAST ARM ASSEMBLY AND POLE
6	EACH	TRAFFIC SIGNAL POST
10	EACH	SIGNAL HEAD ASSEMBLY
8	EACH	PEDESTRIAN PUSHBUTTON
1	EACH	CONTROLLER AND CABINET

REMOVED SIGNAL EQUIPMENT SHALL BE RETURNED TO
 CITY OF LINCOLN, TRACY JACKSON - 732-4655



175.0	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14, 2/C
214.5	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14, 3/C
314.0	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14, 5/C
769.5	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14, 7/C
228.5	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14, 9/C
4	EACH	TRAFFIC SIGNAL POST, ALUMINUM, 16 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.
20.0	FOOT	CONCRETE FOUNDATION, TYPE E, 30" DIA.
24.0	FOOT	CONCRETE FOUNDATION, TYPE E, 36" DIA.
1	EACH	DRILL EXISTING FOUNDATION
3	EACH	DRILL EXISTING HANDHOLE
3	EACH	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
6	EACH	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
4	EACH	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
3	EACH	SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, POLYCARBONATE, LED, 3-FACE, 2-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
4	EACH	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER
2	EACH	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER
18	EACH	TRAFFIC SIGNAL BACKPLATE
8	EACH	PEDESTRIAN PUSHBUTTON
22	EACH	INDUCTIVE LOOP DETECTOR
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
4	EACH	REMOVE EXISTING CONCRETE FOUNDATION
350.0	FOOT	ELECTRIC CABLE IN CONDUIT, GROUND, #6 1/C (GREEN)

NOTES:

- 1.) INSTALL NEW TRAFFIC SIGNAL POST ON EXISTING TY A FOUNDATION
- 2.) TRAFFIC SIGNAL MAST ARM ASSEMBLIES SHALL BE DESIGNED FOR THE LOADINGS SHOWN ON THE HIGHWAY STANDARDS OR THESE SIGNAL PLANS WHICHEVER IS GREATER
- 3.) EXISTING POST AND MAST ARMS SHALL BE DEACTIVATED AND REMOVED UNTIL APPROPRIATE PROPOSED EQUIPMENT HAS BEEN INSTALLED AND READY TO BE ACTIVATED. SIGNALS MAY BE IN FLASHING RED DURING THE DAY TO ALLOW FOR NECESSARY CONNECTIONS. WHEN IN NORMAL OPERATION, THERE MUST BE AT LEAST TWO SIGNAL INDICATIONS FOR EACH INTERSECTION APPROACH. CONTRACTOR SHALL MINIMIZE FLASHING RED TIME AS MUCH AS POSSIBLE.
- 4.) CABLE SPLICING SHALL BE ALLOWED AT THE BASE OF TRAFFIC SIGNAL POSTS THAT ARE INSTALLED ON EXISTING TYPE A FOUNDATIONS.
- 5.) INSTALL PROP CABINET ON EXISTING FOUNDATION. UPS CABINET SHALL BE MOUNTED TO SIDE OF PROPOSED CABINET.

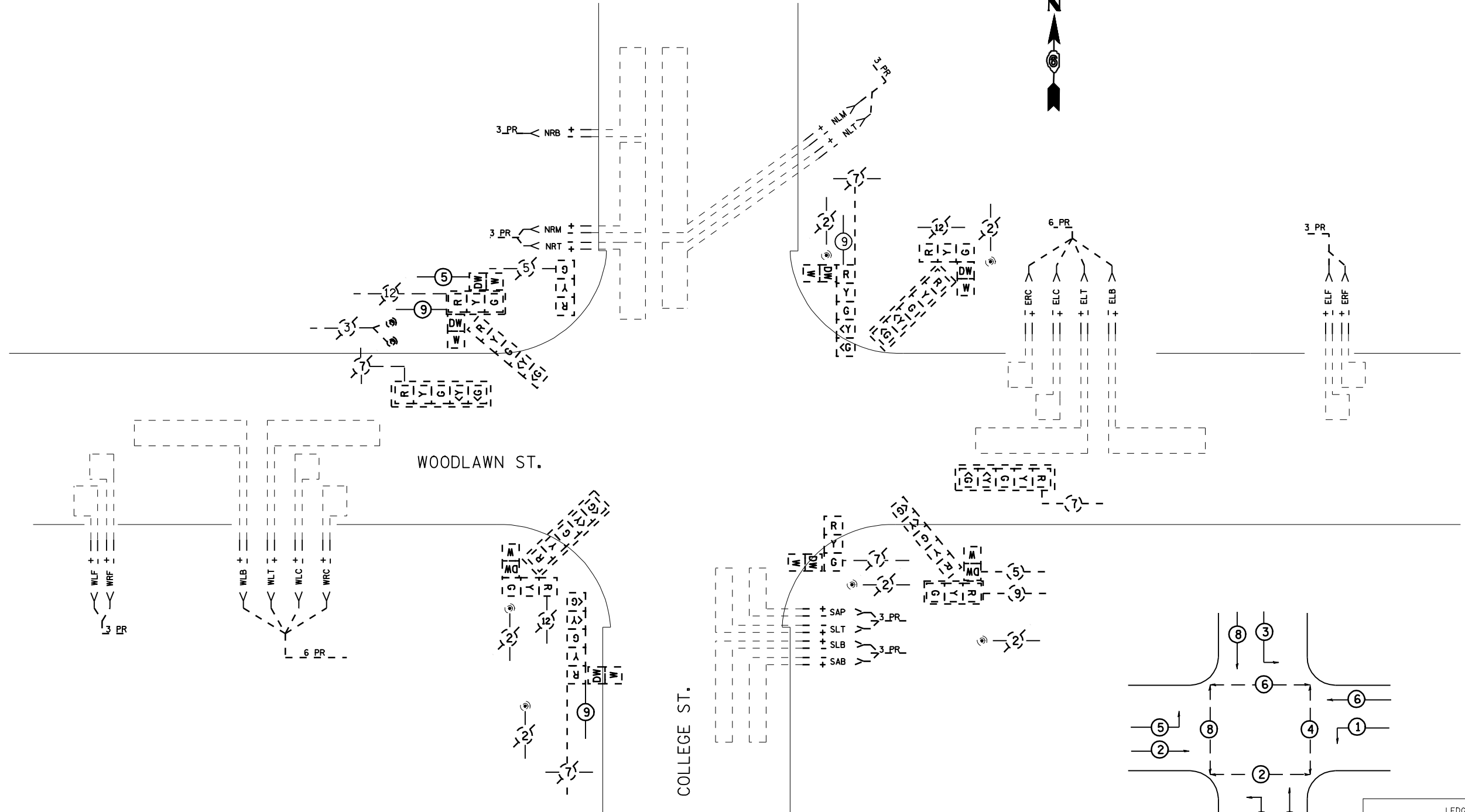
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es:\pwwork\pwwd001\LAUGHLINRL\dms50958\0672838-ts_sheets.dgn	PLOT SCALE = 48.0000' / IN.	DRAWN -	REVISED -			7708	20RS-1 (22 & 23)RS-4	LOGAN	28	17
PLOT DATE = Apr-09-2010 09:52:48AM	DATE -	CHECKED -	REVISED -			CONTRACT NO. 72B38				
		DATE -	REVISED -			FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

SCALE: SHEET NO. OF SHEETS STA. TO STA.

CONTROLLER

(2) (2) (2) (2) (2) (2) (2) (3) (5) (7) (7) (7) (7) (7) (12) (12) (12) (12)

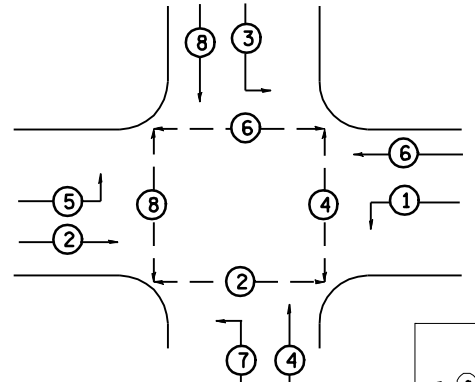
AWC



WOODLAWN ST.

COLLEGE ST.

PHASE	2	2	5	5	2	3	3	3	3	3	6	6	1	1	3	8	8	2	2	5	
	WRF	WLF	WLB	WLT	WLC	NRB	NRM	NRT	NLM	NLT	ERF	ELB	ELT	ELC	ERC	SAP	SLT	SLB	SAB		
	3_PR	6_PR	1_PR	3_PR	3_PR	3_PR	3_PR	6_PR	3_PR	3_PR	3_PR	3_PR	3_PR	3_PR	3_PR	3_PR	3_PR	3_PR	3_PR	3_PR	3_PR



LEGEND	
	VEHICLE MOVEMENT
	PEDESTRIAN
• NUMBERS REFER TO ASSOCIATED PHASE	

FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -
er:\pwork\PWIDOT\LAUGHLINRL\dms50958\0672838-ts_sheets.dgn		DRAWN -	REVISED -
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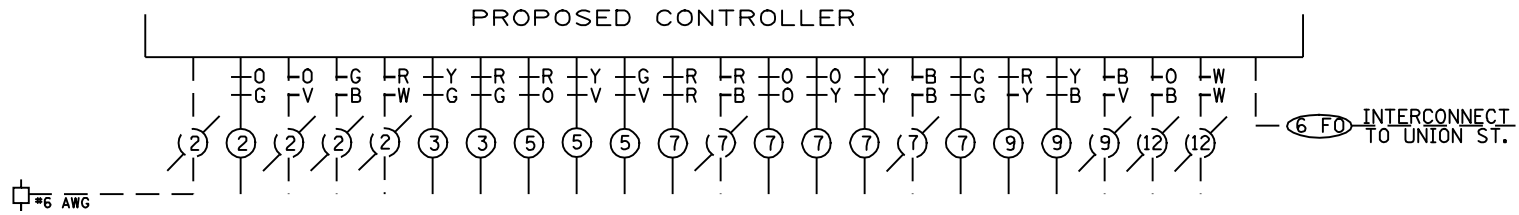
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED WIRING DIAGRAM
IL 10/121/WOODLAWN & COLLEGE ST.**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

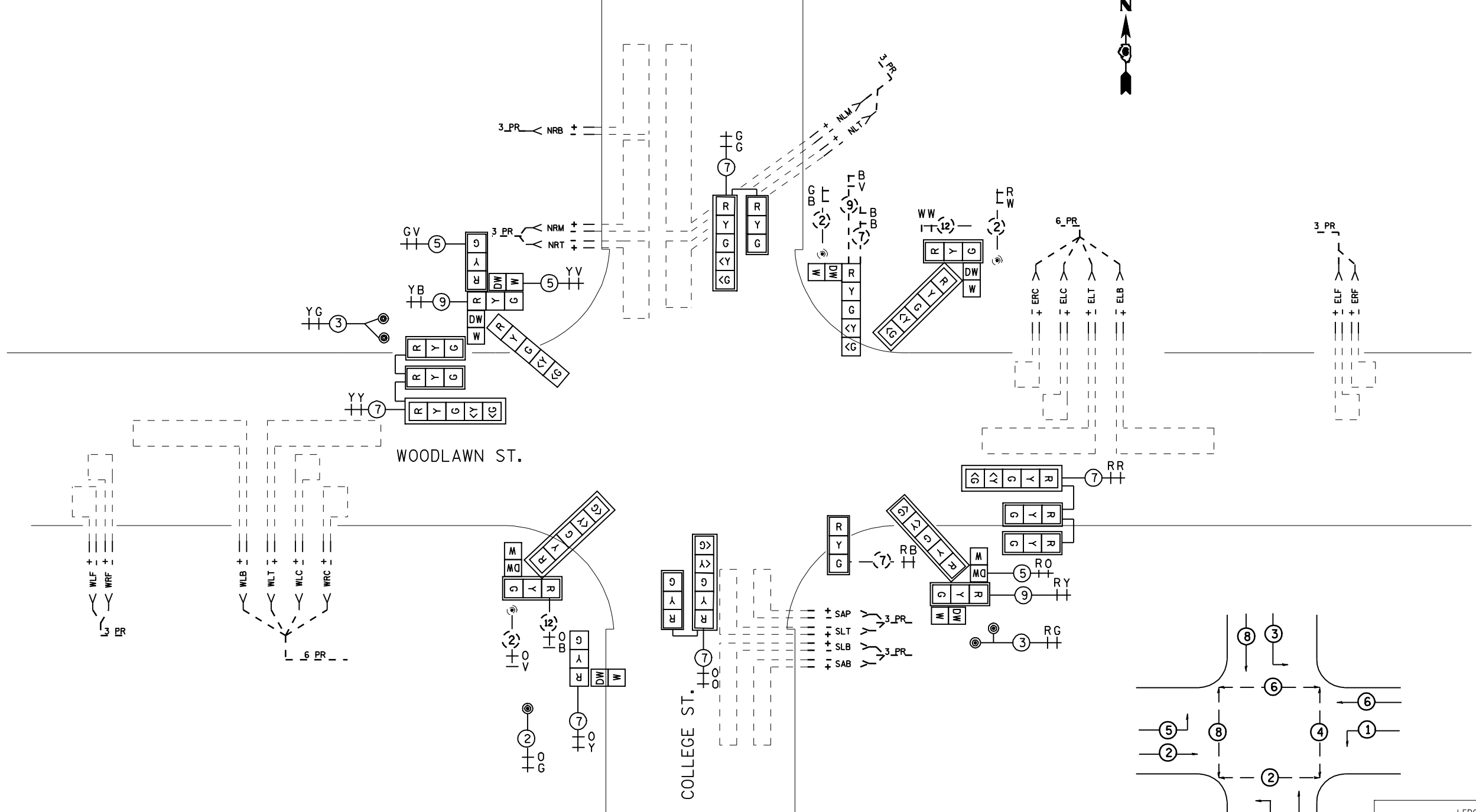
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7708	20RS-1; (22 & 23)RS-4	LOGAN	28	18
CONTRACT NO. 72B38				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PROPOSED CONTROLLER

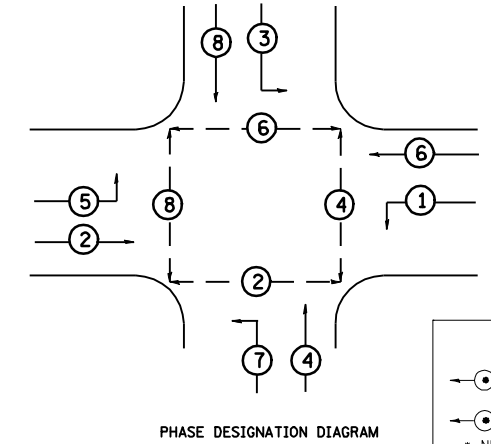


6 FO INTERCONNECT TO UNION ST.

6 AWG



PHASE	2	2	5	5	2	3	3	3	3	3	6	6	1	1	3	8	8	2	2	5
WRF	WLF	WLB	WLT	WLC	WRC	NRB	NRM	NRT	NLM	NLT	ERF	ELB	ELT	ELC	ERC	SAP	SLT	SLB	SAB	
3_PR	6_PR	1_PR	3_PR	3_PR	3_PR	6_PR	3_PR	3_PR	3_PR	6_PR	3_PR	3_PR	3_PR	3_PR	3_PR	3_PR	3_PR	3_PR	3_PR	



LEGEND	
	VEHICLE MOVEMENT
	PEDESTRIAN
	NUMBERS REFER TO ASSOCIATED PHASE

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED WIRING DIAGRAM
IL 10/121/WOODLAWN & COLLEGE ST.**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7708	20RS-1; (22 & 23)RS-4	LOGAN	28	19
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 72B38	

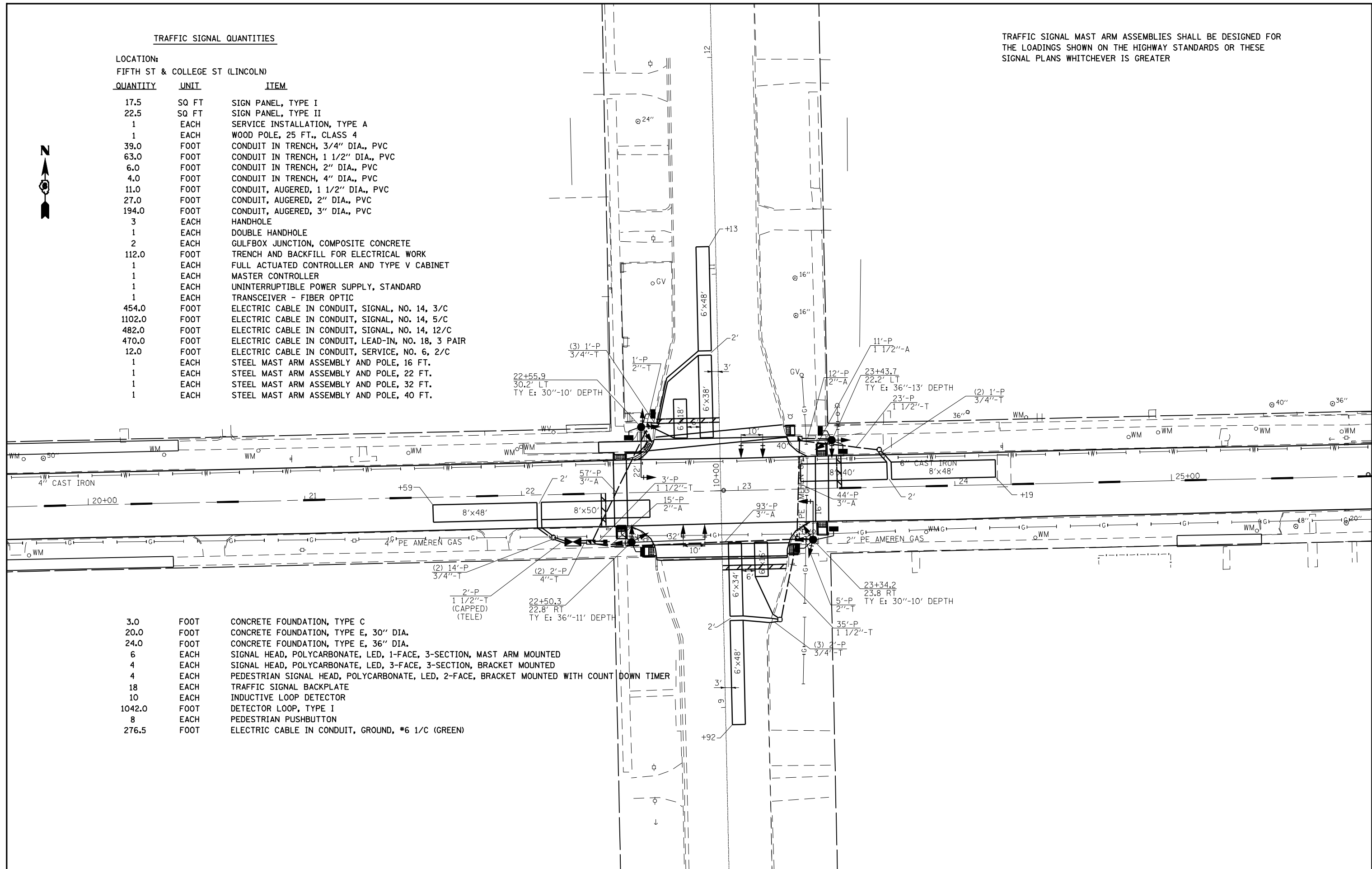
TRAFFIC SIGNAL QUANTITIES

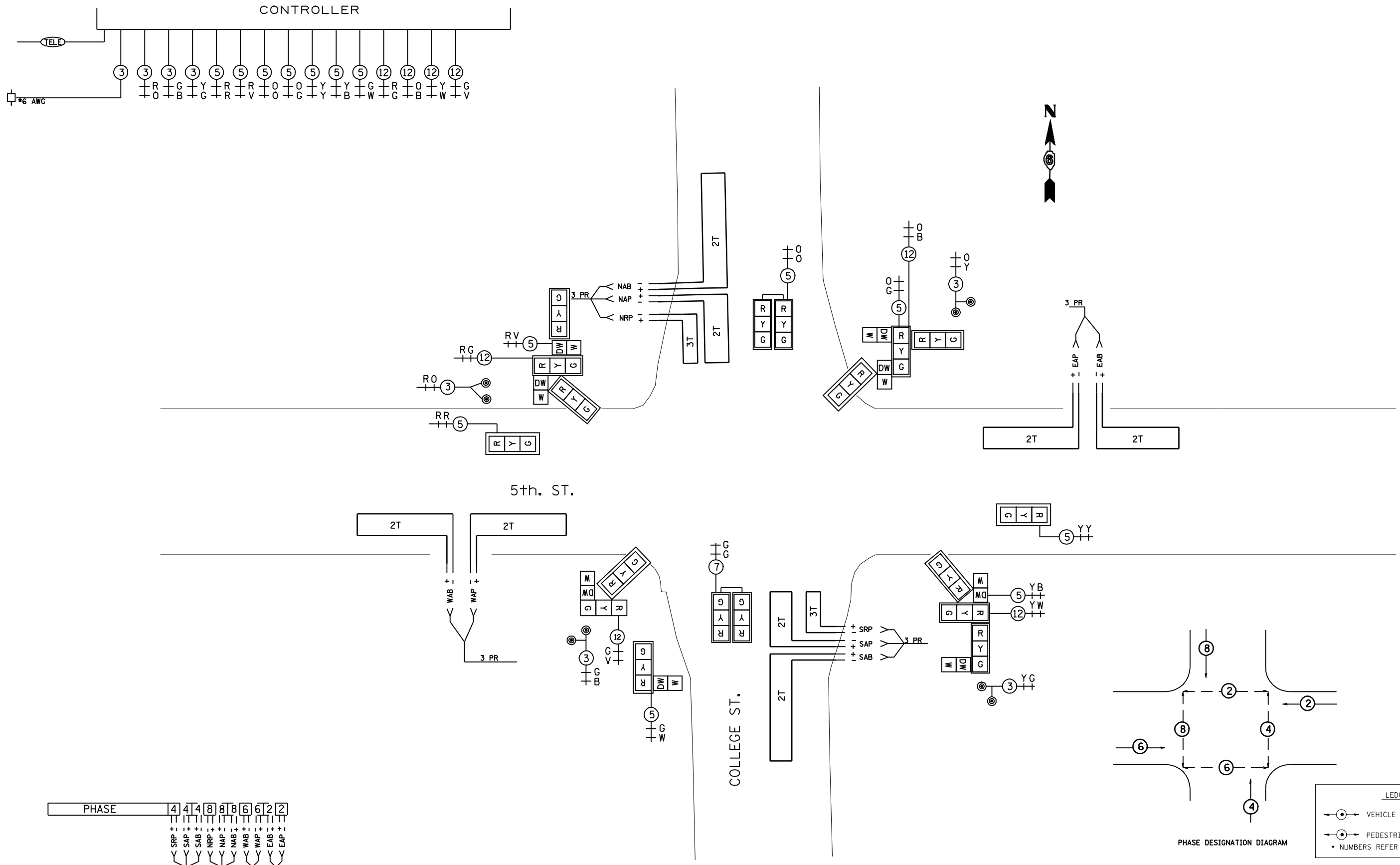
LOCATION:

FIFTH ST & COLLEGE ST (LINCOLN)

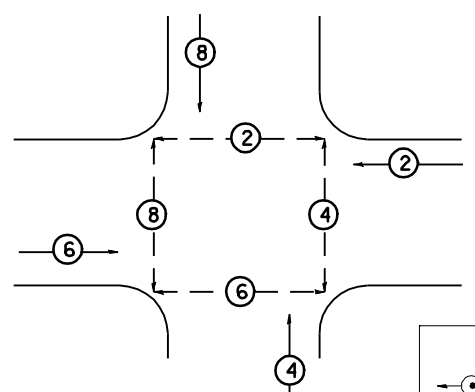
QUANTITY	UNIT	ITEM
17.5	SQ FT	SIGN PANEL, TYPE I
22.5	SQ FT	SIGN PANEL, TYPE II
1	EACH	SERVICE INSTALLATION, TYPE A
1	EACH	WOOD POLE, 25 FT., CLASS 4
39.0	FOOT	CONDUIT IN TRENCH, 3/4" DIA., PVC
63.0	FOOT	CONDUIT IN TRENCH, 1 1/2" DIA., PVC
6.0	FOOT	CONDUIT IN TRENCH, 2" DIA., PVC
4.0	FOOT	CONDUIT IN TRENCH, 4" DIA., PVC
11.0	FOOT	CONDUIT, AUGERED, 1 1/2" DIA., PVC
27.0	FOOT	CONDUIT, AUGERED, 2" DIA., PVC
194.0	FOOT	CONDUIT, AUGERED, 3" DIA., PVC
3	EACH	HANDHOLE
1	EACH	DOUBLE HANDHOLE
2	EACH	GULFBOX JUNCTION, COMPOSITE CONCRETE
112.0	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1	EACH	FULL ACTUATED CONTROLLER AND TYPE V CABINET
1	EACH	MASTER CONTROLLER
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, STANDARD
1	EACH	TRANSCEIVER - FIBER OPTIC
454.0	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14, 3/C
1102.0	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14, 5/C
482.0	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14, 12/C
470.0	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18, 3 PAIR
12.0	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6, 2/C
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 16 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.

TRAFFIC SIGNAL MAST ARM ASSEMBLIES SHALL BE DESIGNED FOR THE LOADINGS SHOWN ON THE HIGHWAY STANDARDS OR THESE SIGNAL PLANS WHICHEVER IS GREATER





PHASE	4	4	4	8	8	8	6	2	2
SRP	+	+	+	+	+	+	+	+	+
SAP	+	+	+	+	+	+	+	+	+
SAB	+	+	+	+	+	+	+	+	+
NRP	+	+	+	+	+	+	+	+	+
NAP	+	+	+	+	+	+	+	+	+
NAB	+	+	+	+	+	+	+	+	+
WAB	+	+	+	+	+	+	+	+	+
WAP	+	+	+	+	+	+	+	+	+
EAB	+	+	+	+	+	+	+	+	+
EAP	+	+	+	+	+	+	+	+	+



LEGEND	
	VEHICLE MOVEMENT
	PEDESTRIAN
* NUMBERS REFER TO ASSOCIATED PHASE	

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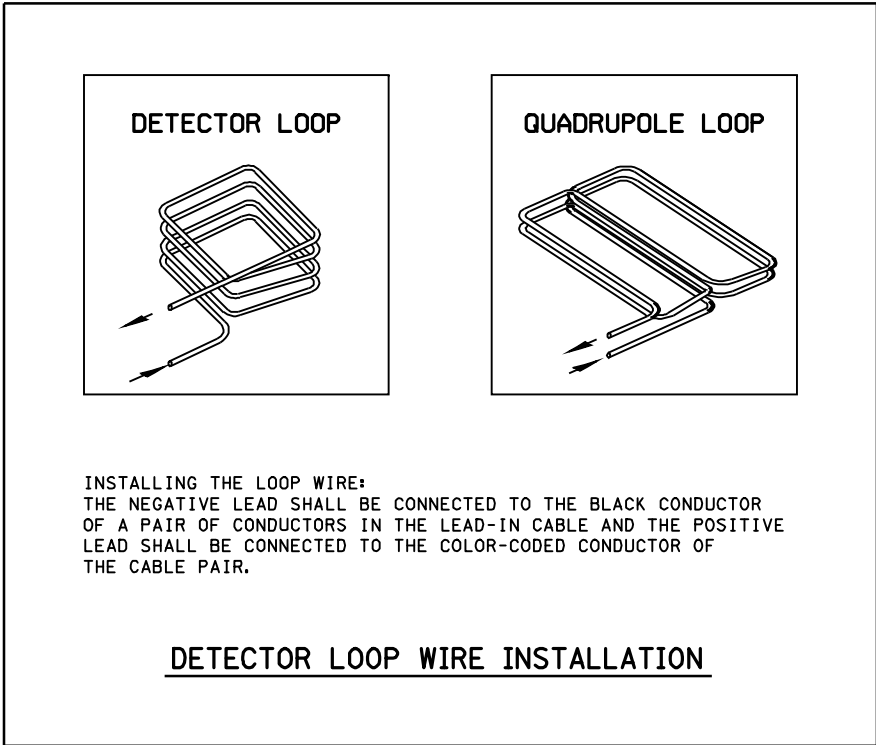
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED WIRING DIAGRAM
I 55 BUSINESS/5TH ST. & COLLEGE ST.**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7708	20RS-1; (22 & 23)RS-4	LOGAN	28	21
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 72B38	

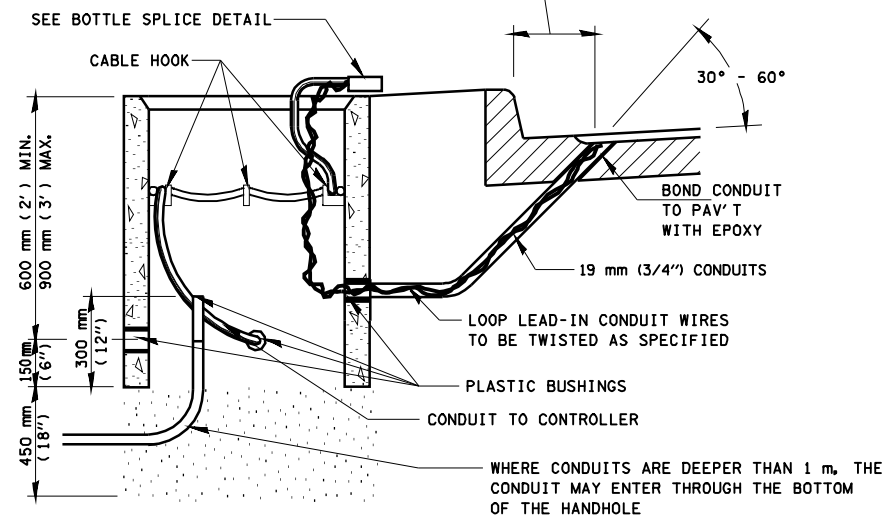
LOOP DESIGNATION	NUMBER OF TURNS	READING @ HANDHOLE OR JUNCTION BOX				READING @ CONTROLLER				LOOP DESIGNATION	NUMBER OF TURNS	READING @ HANDHOLE OR JUNCTION BOX				READING @ CONTROLLER			
		CALCULATED		METERED		CALCULATED		METERED				CALCULATED		METERED		CALCULATED		METERED	
		$\mu\eta$	Ω	$\mu\eta$	Ω	$\mu\eta$	Ω	$\mu\eta$	Ω			$\mu\eta$	Ω	$\mu\eta$	Ω	$\mu\eta$	Ω	$\mu\eta$	Ω
COLLEGE & 5th ST.																			
NAP	2	155	0.68			162	1.74												
NAB	2	189	0.79			196	1.85												
NRP	3	168	0.42			175	1.48												
SAP	2	135	0.48			149	2.47												
SAB	2	182	0.63			195	2.62												
SRP	3	157	0.46			170	1.45												
EAP	2	161	0.54			182	3.67												
EAB	2	188	0.63			209	3.75												
WAP	2	197	0.72			197	0.72												
WAB	2	191	0.70			191	0.70												



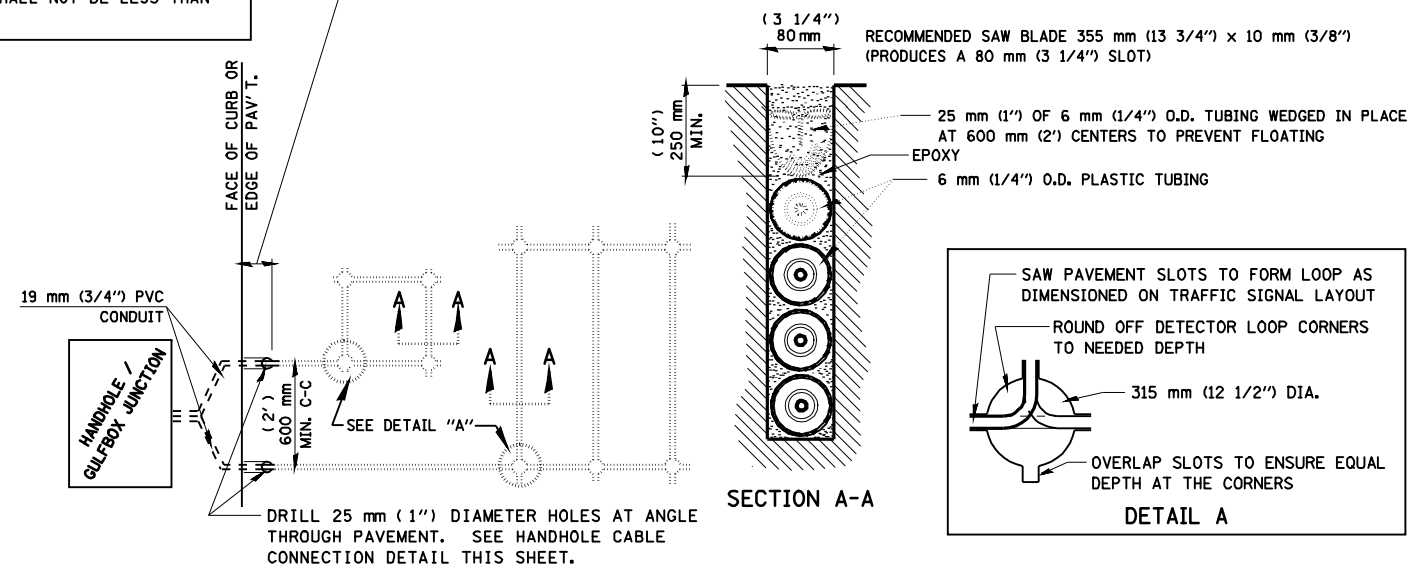
- DETECTOR NOTES:**
1. THE DETECTOR LOOP SHALL BE CENTERED IN THE LANE IN WHICH IT IS SHOWN. ANY ADJUSTMENTS ARE TO BE MADE ONLY AT THE DIRECTION OF THE ENGINEER.
 2. THE DETECTOR LOOPS SHALL CONSIST OF THE NUMBER OF TURNS AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.
 3. ACCEPTANCE OF THE LOOPS AS METERED SHALL BE DETERMINED BY THE ENGINEER.
 4. ALL DETECTOR WIRES SHALL BE MARKED WITH WATERPROOF LABELS USING THE WIRING IDENTIFICATION SHOWN ON THE PLANS. THE + AND - OF EACH LOOP MUST BE USED TO IDENTIFY CURRENT FLOW. ALWAYS CONNECT THE BLACK WIRE OF EACH PAIR TO THE NEGATIVE (-) LOOP WIRE.
 5. ALL QUADRAPOLE LOOPS SHALL BE 2-4-2 DESIGN.

LENGTH OF SLACK FOR LOOP LEAD-INS SHALL PROVIDE FOR MAKING THE SPLICE ON TOP OF THE HANDHOLE AND ONE COMPLETE LOOP OF THE INTERIOR OF THE HANDHOLE, THE SPLICE SHALL BE SUPPORTED BY A CABLE HOOK.

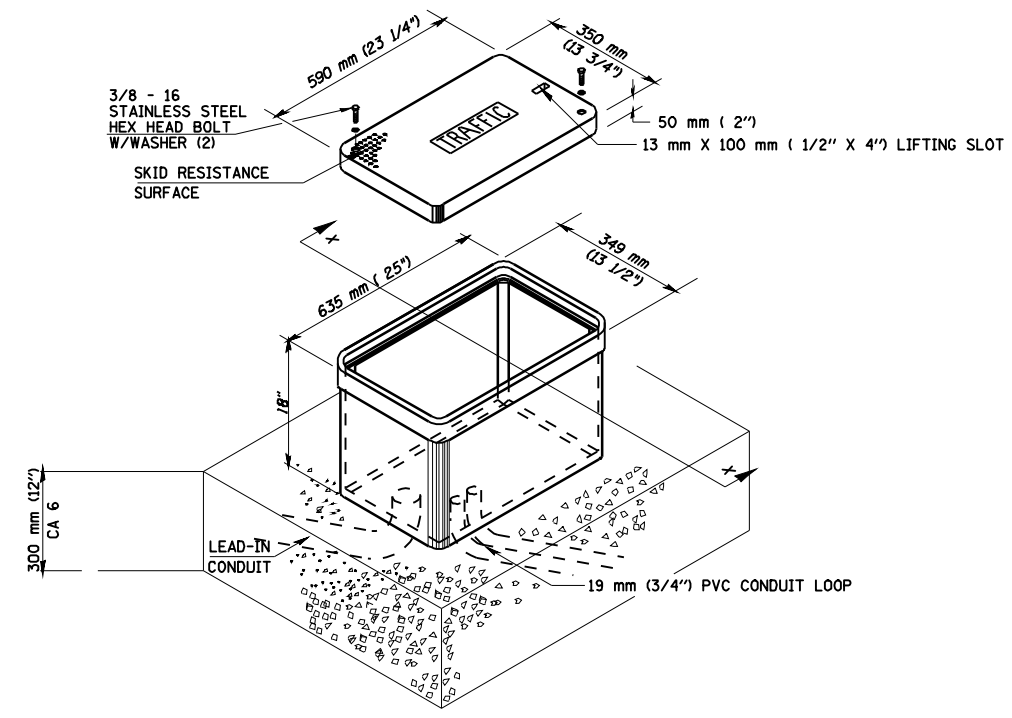
THE LOOP LEAD-IN CONDUIT HOLES SHALL BE PLACED AS CLOSE TO THE CURB AS POSSIBLE TO PERMIT SAW OVERLAP WITHOUT SCARRING FACE OF CURB.
IN NON-CURB LOCATIONS THE DISTANCE SHALL NOT BE LESS THAN 150 mm (6").



HANDHOLE CABLE CONNECTIONS

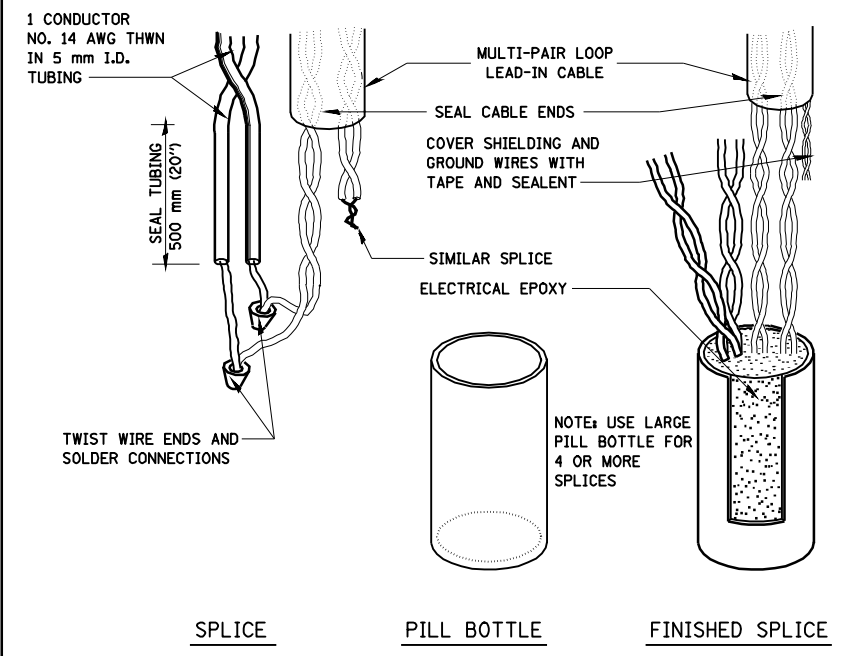
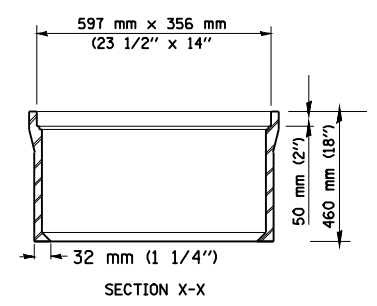


PAVEMENT SAWING DETAIL FOR TUBE ENCASED DETECTOR LOOP WIRE



MINIMUM DIMENSIONS

GULFBOX JUNCTION (SPECIAL)



BOTTLE SPLICE DETAIL

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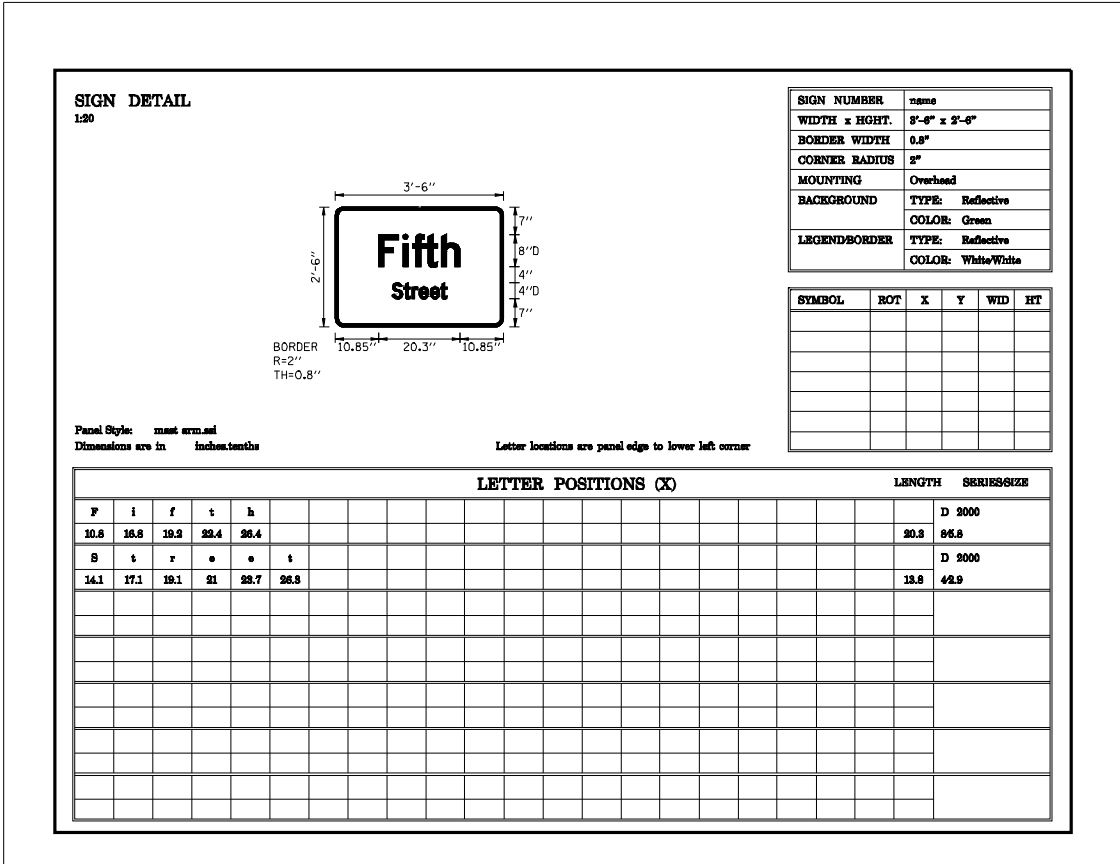
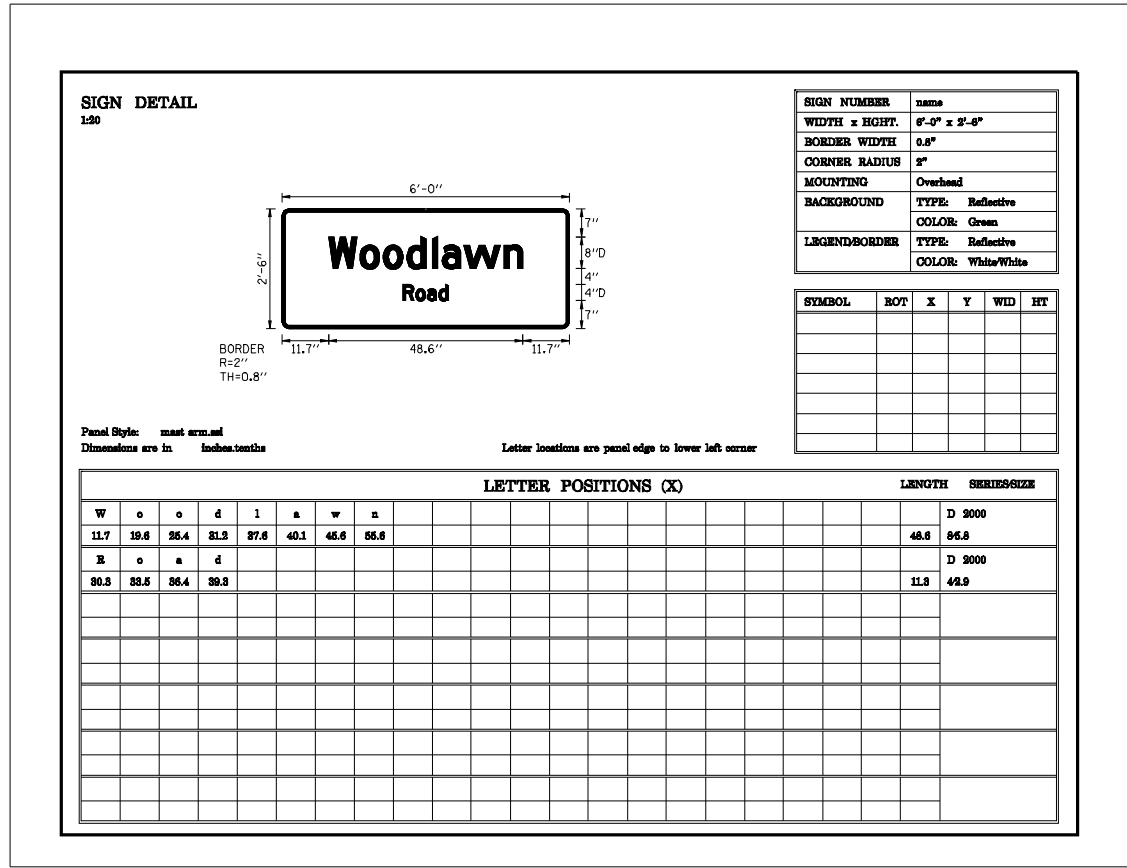
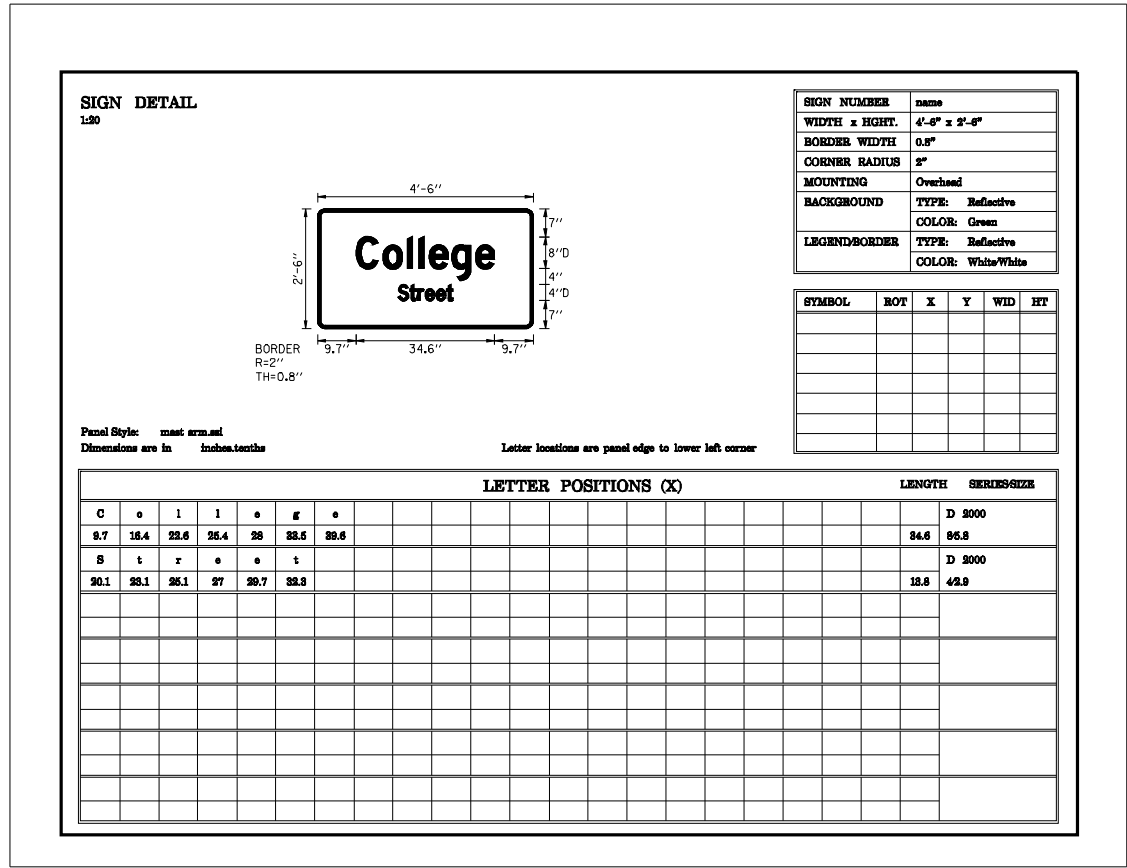
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC SIGNAL DETECTOR LOOP DETAILS

SCALE: SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7708	20RS-1; (22 & 23)RS-4	LOGAN	28	23
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 72B38	

DETLOOP.DGN

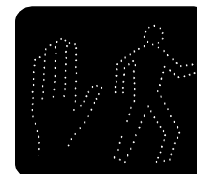


TRAFFIC SIGNAL PLAN LEGEND

EXISTING	PROPOSED	DESCRIPTION
		SIGNAL HEAD
		SIGNAL HEAD WITH BACKPLATE
		TEMPORARY SIGNAL HEAD
		PEDESTRIAN SIGNAL HEAD
		PEDESTRIAN PUSHBUTTON DETECTOR
		DETECTOR LOOP
		QUADRAPOLE DETECTOR LOOP
		SIGNAL POST
		ALUMINUM MAST ARM ASSEMBLY AND POLE
		STEEL MAST ARM ASSEMBLY AND POLE
		WOOD POLE
		WOOD POLE WITH GUY
		SERVICE INSTALLATION
		CONTROLLER
		HANDHOLE
		HEAVY DUTY HANDHOLE
		DOUBLE HANDHOLE
		JUNCTION BOX
		GULFBOX JUNCTION
		AERIAL CABLE
		CONDUIT LENGTH - CONSTRUCTION (T=TRENCH P=PUSHED A=AUGERED E=EXISTING) SIZE - TYPE (S=STEEL P=PVC F=FIBER DUCT U=UNI-DUCT)
		CONDUIT SPLICE
		SPAN WIRE / TETHER WIRE
		SIDEWALK REMOVAL IN SQ M (SQ FT)
		PC CONC SDWLK 100 mm IN SQ M (SQ YD)
		PC CONC SDWLK 100 mm SPECIAL IN SQ M (SQ YD)

TRAFFIC SIGNAL WIRING DIAGRAM LEGEND

EXISTING	PROPOSED	DESCRIPTION
		200 mm (8'') SIGNAL SECTION
		300 mm (12'') SIGNAL SECTION
		DIRECTIONAL SIGNAL SECTION
		225 mm (9'') PEDESTRIAN SIGNAL FACE
		300 mm (12'') PEDESTRIAN SIGNAL FACE
		SIGNAL FACE WITH BACKPLATE
		PROGRAMMED SIGNAL SECTION
		SIGNAL SECTION WITH LOUVRE
		DUAL-INDICATION SIGNAL SECTION
		INDUCTION DETECTOR LOOP
		QUADRAPOLE DETECTOR LOOP
		DIRECT-CONNECTED LOOP LEAD-IN (TWISTED)
		ELECTRIC CABLE DENOTING NUMBER OF CONDUCTORS
		ELECTRIC CABLE TO BE REMOVED
		ELECTRIC CABLE IDENTIFIER TAPE CODES (R= RED W= WHITE Y= YELLOW G= GREEN B= BLUE O= ORANGE)
		PEDESTRIAN PUSHBUTTON DETECTOR
		VIDEO DETECTION CAMERA
		EMERGENCY VEHICLE PREEMPTOR



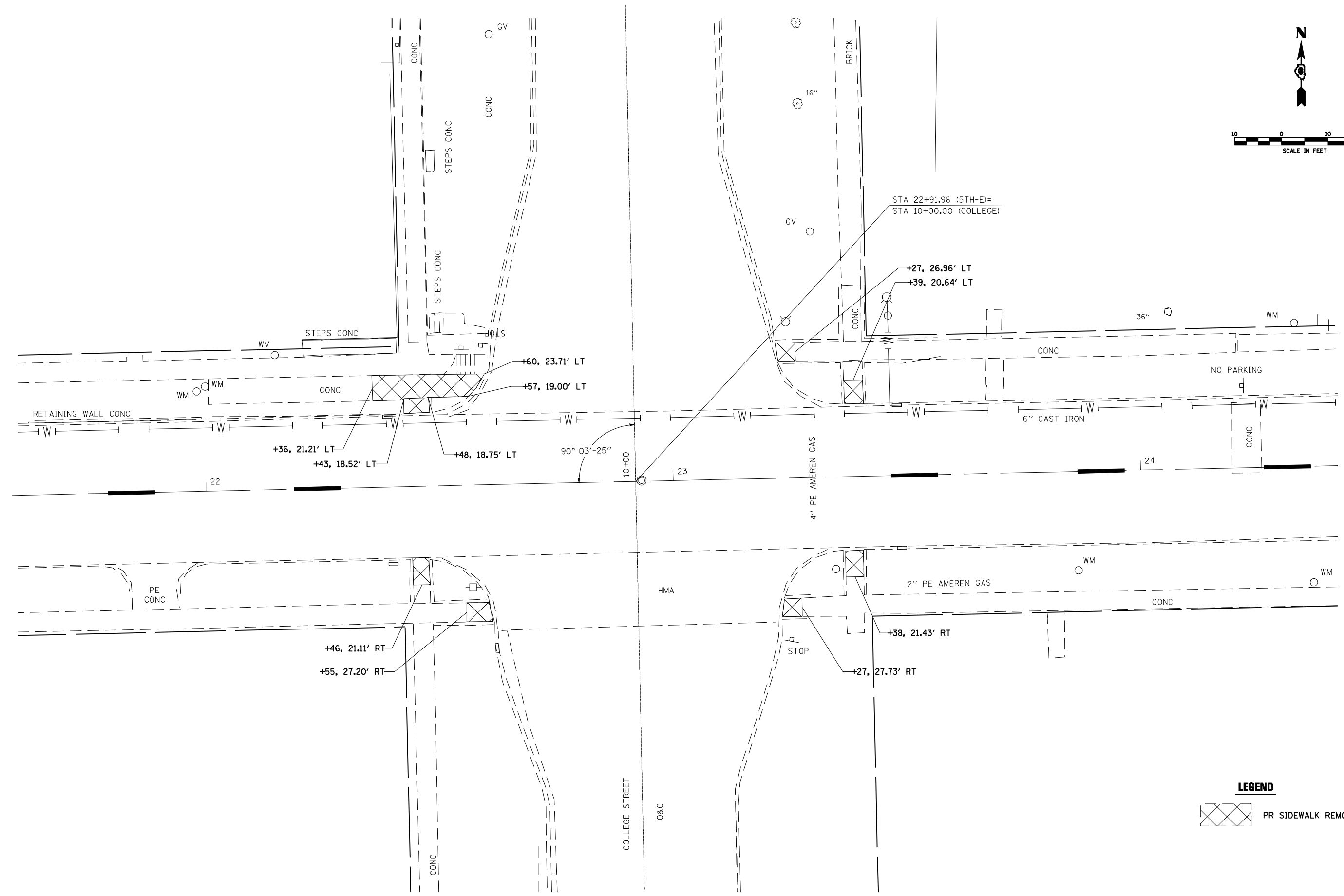
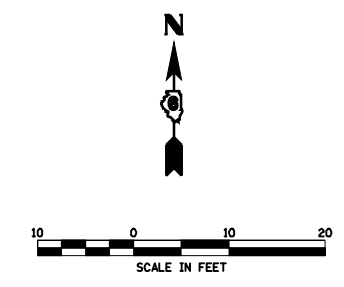
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LEGEND FOR TRAFFIC SIGNAL DETAILS

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7708	20RS-1a (22 & 23)RS-4	LOGAN	28	25
CONTRACT NO. 72B38				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



LEGEND
 PR SIDEWALK REMOVAL

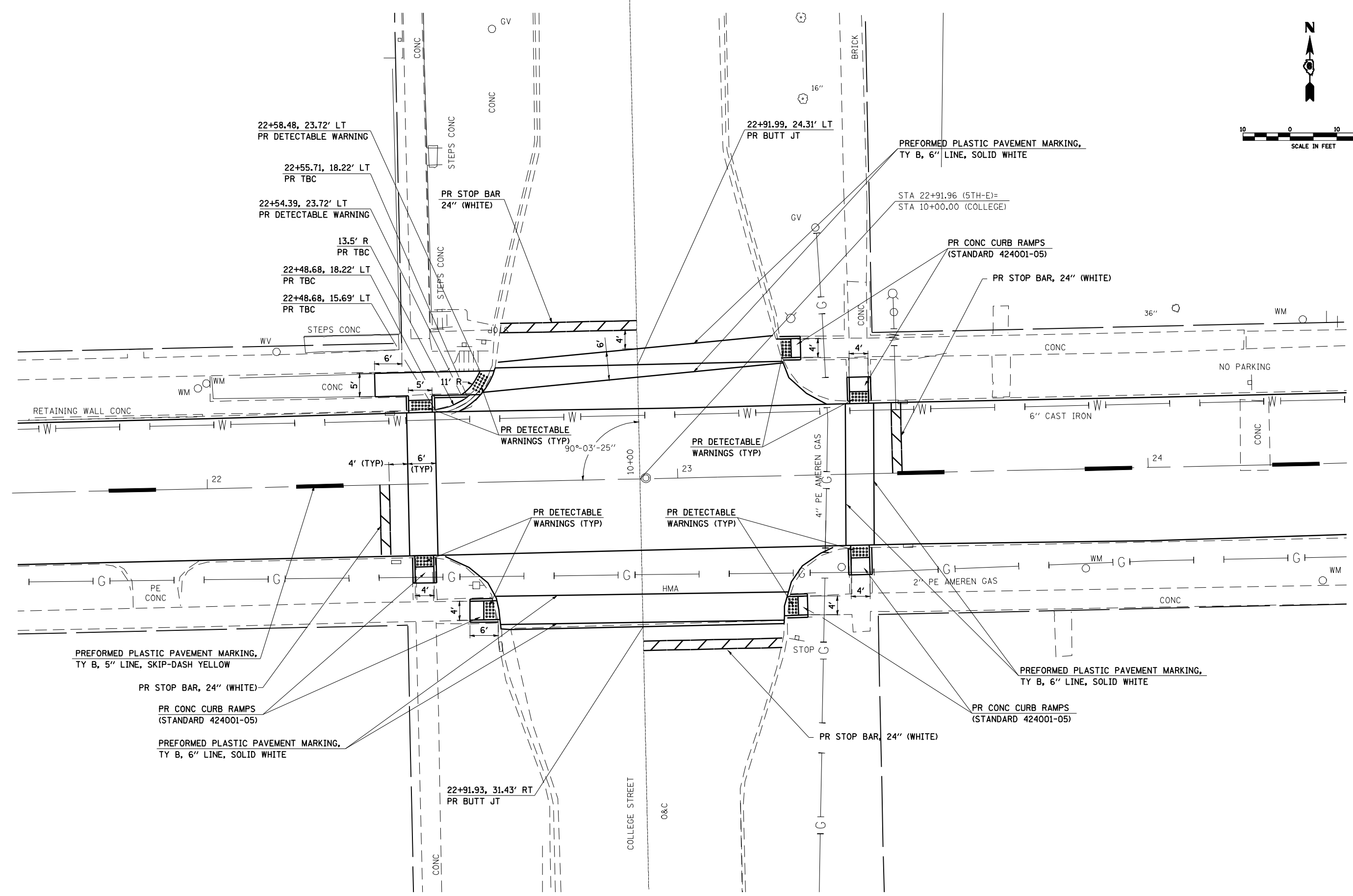
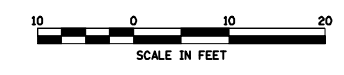
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

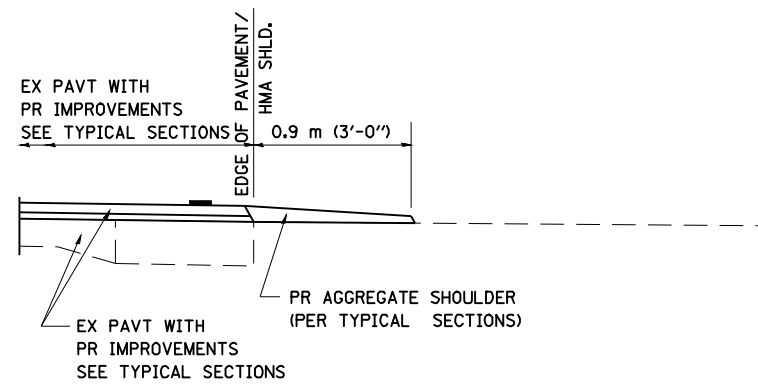
**SIDEWALK REMOVAL DETAIL
5TH & COLLEGE STREET**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7708	20RS-1 (22 & 23)RS-4	LOGAN	28	26
CONTRACT NO. 72B38			ILLINOIS FED. AID PROJECT	

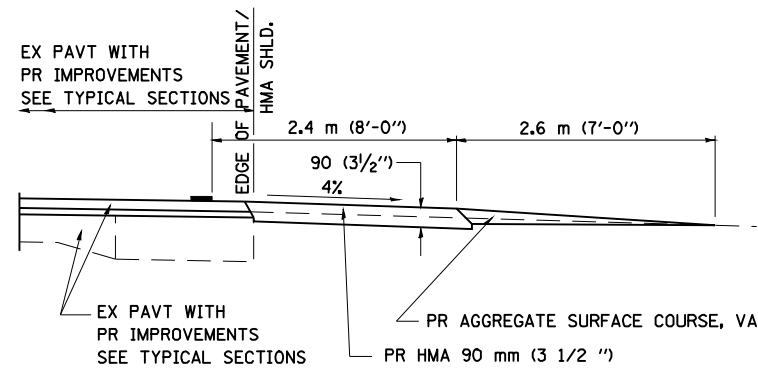
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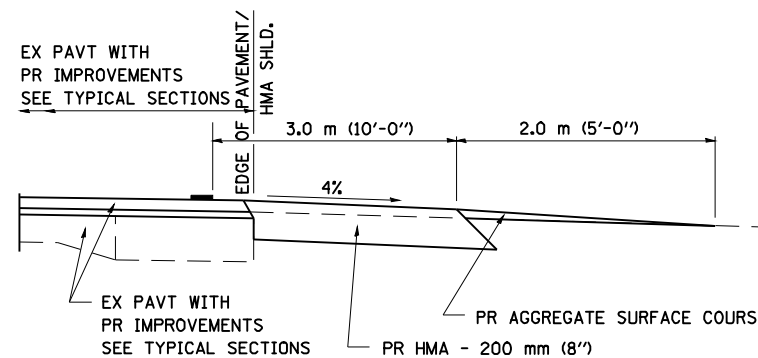
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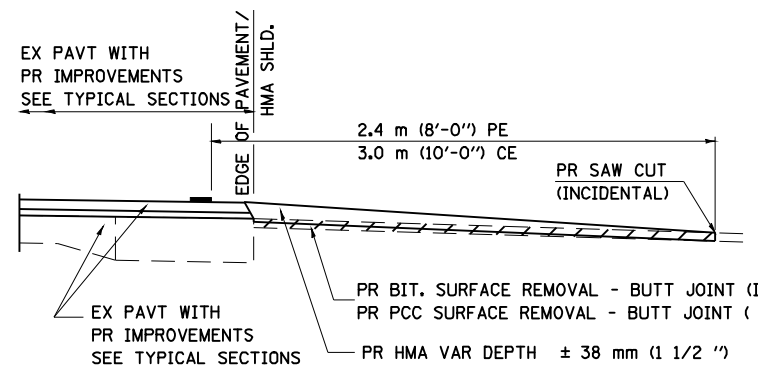
SECTION A-A FOR EX EARTH/ AGGREGATE FE



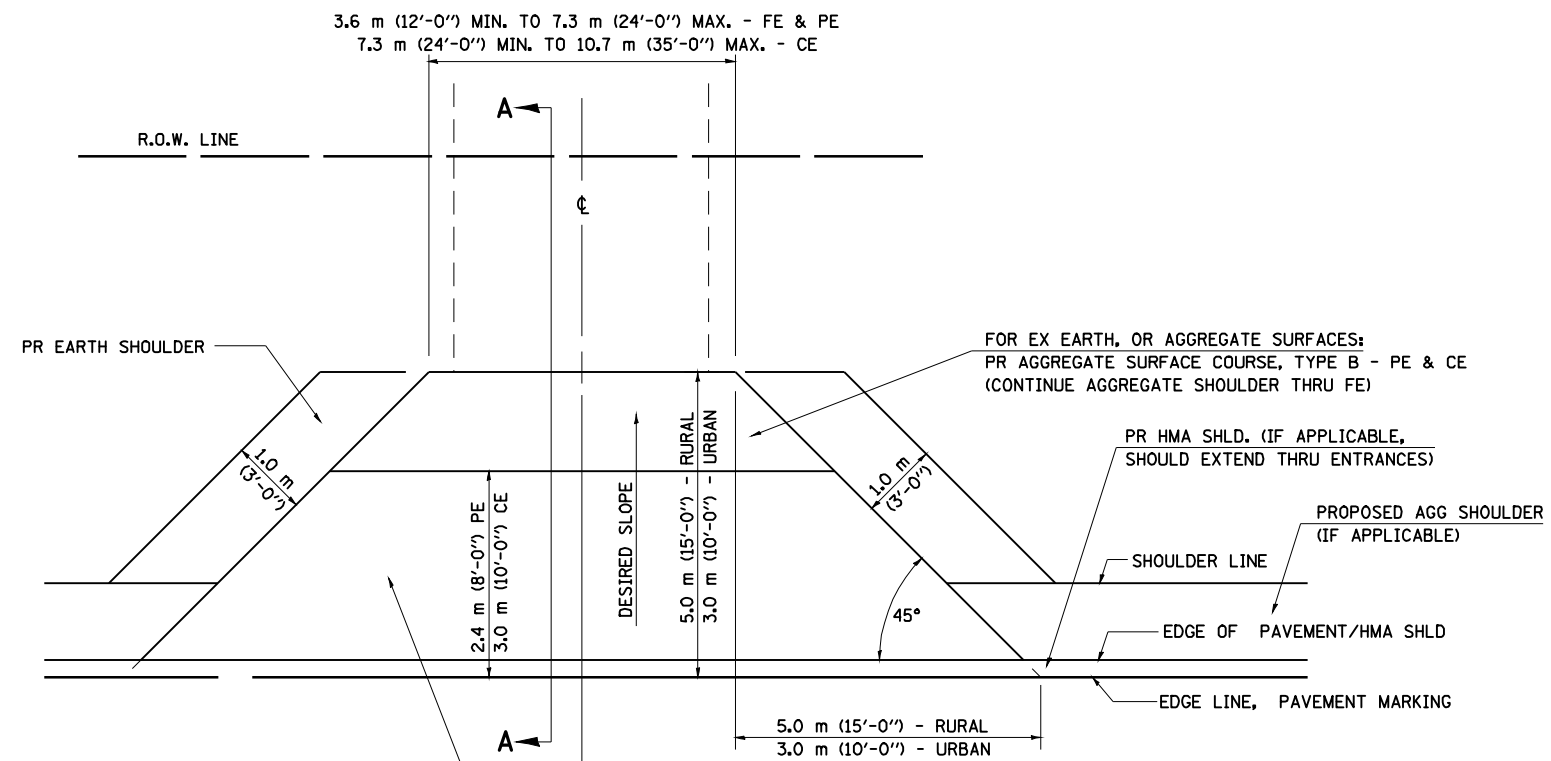
SECTION A-A FOR EX EARTH/AGGREGATE PE



SECTION A-A FOR EX EARTH/AGGREGATE CE & SIDE ROAD



SECTION A-A FOR EX BITUMINOUS/ PC CONCRETE PE, CE & SIDE ROAD



FOR EX EARTH OR AGGREGATE SURFACES:
 PR BIT SURFACE REMOVAL (IF APPLICABLE)
 PR AGGREGATE SHOULDER THRU - FE
 PR BITUMINOUS CONCRETE 90 mm (3 1/2") - PE
 PR BITUMINOUS CONCRETE 200mm (8") - CE

FOR EX BITUMINOUS CONCRETE SURFACES:
 PR BITUMINOUS SURFACE REMOVAL-BUTT JOINT

FOR EX PCC SURFACES:
 PR PCC SURFACE REMOVAL-BUTT JOINT

GENERAL NOTES:

THE RESIDENT ENGINEER WILL DETERMINE THE EXACT TYPE OF IMPROVEMENT TO BE COMPLETED FOR ALL ENTRANCES, SIDEROADS AND MAILBOX TURNOUTS ON THIS PROJECT.

THE PLAN DETAILS AND SCHEDULES SHOULD BE USED AS A GUIDE FOR THE ENGINEER TO IMPLEMENT THE FINAL DESIGN. THE ENGINEER MAY DECIDE TO SALVAGE PORTIONS OF THE EXISTING ENTRANCE PAVEMENT STRUCTURE; THEREFORE, REDUCING PAY ITEM QUANTITIES. NO ADDITIONAL PAYMENT WILL BE ALLOWED FOR THIS REDUCTION IN QUANTITIES.

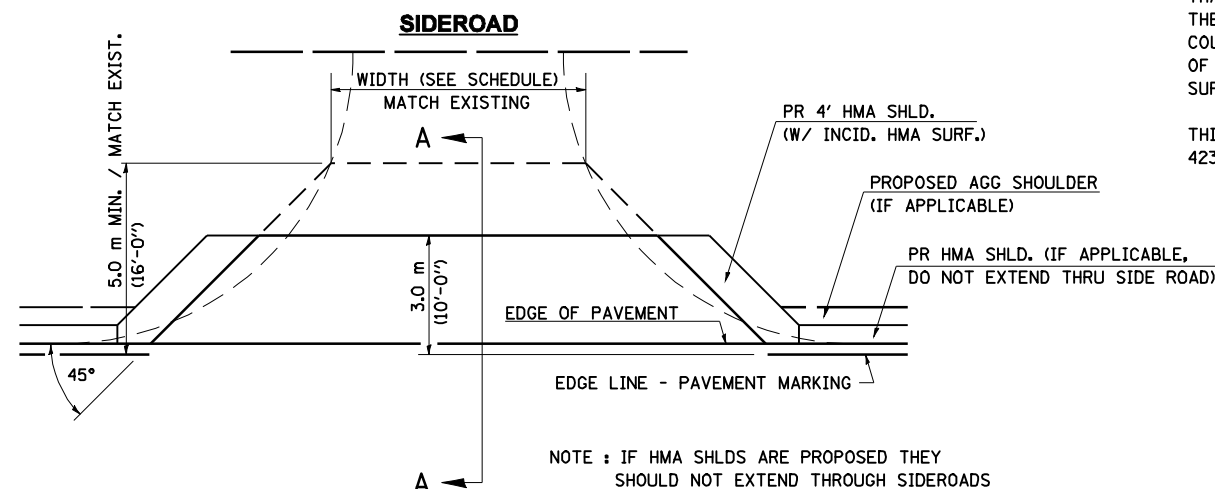
ANY WORK THE ENGINEER REQUIRES WHICH IS NOT COVERED BY A PAY ITEM CONTAINED IN THE PLANS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

BITUMINOUS CONCRETE REQUIRED TO CONSTRUCT THE ENTRANCES SHALL BE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 406 AND 408 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.

WHEN THE BITUMINOUS CONCRETE PROPOSED FOR THE IMPROVEMENT IS THICKER THAN 75 mm (3 INCHES) AND REQUIRE PLACEMENT IN MORE THAN ONE LIFT. THE BOTTOM LIFT(S) SHALL MEET THE REQUIREMENTS OF BITUMINOUS BASE COURSE IN SECTION 406 OF THE STANDARD SPECIFICATIONS AND THE TOP LIFT OF 50 mm (2 INCHES) SHALL MEET THE REQUIREMENTS OF BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE.

THIS WORK WILL BE PAID FOR IN ACCORDANCE WITH SECTIONS 351, 358, 408, 423 AND 440 OF THE STANDARD SPECIFICATIONS.

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



NOTE : IF HMA SHLDS ARE PROPOSED THEY SHOULD NOT EXTEND THROUGH SIDEROADS

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DIST. 6 DETAILS FOR RURAL/URBAN ENT., MAILBOX
 TURNOUT & SIDEROADS W/O CONC. GUTTER (3P-PROJ.)**

SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7708	20RS-1422&23JRS-4	LOGAN	28	28
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 72B38	