

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

**PROPOSED
 HIGHWAY PLANS**

FAP ROUTE 323
 SECTION (58-62)TS

MACON COUNTY

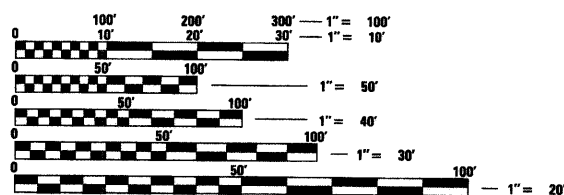
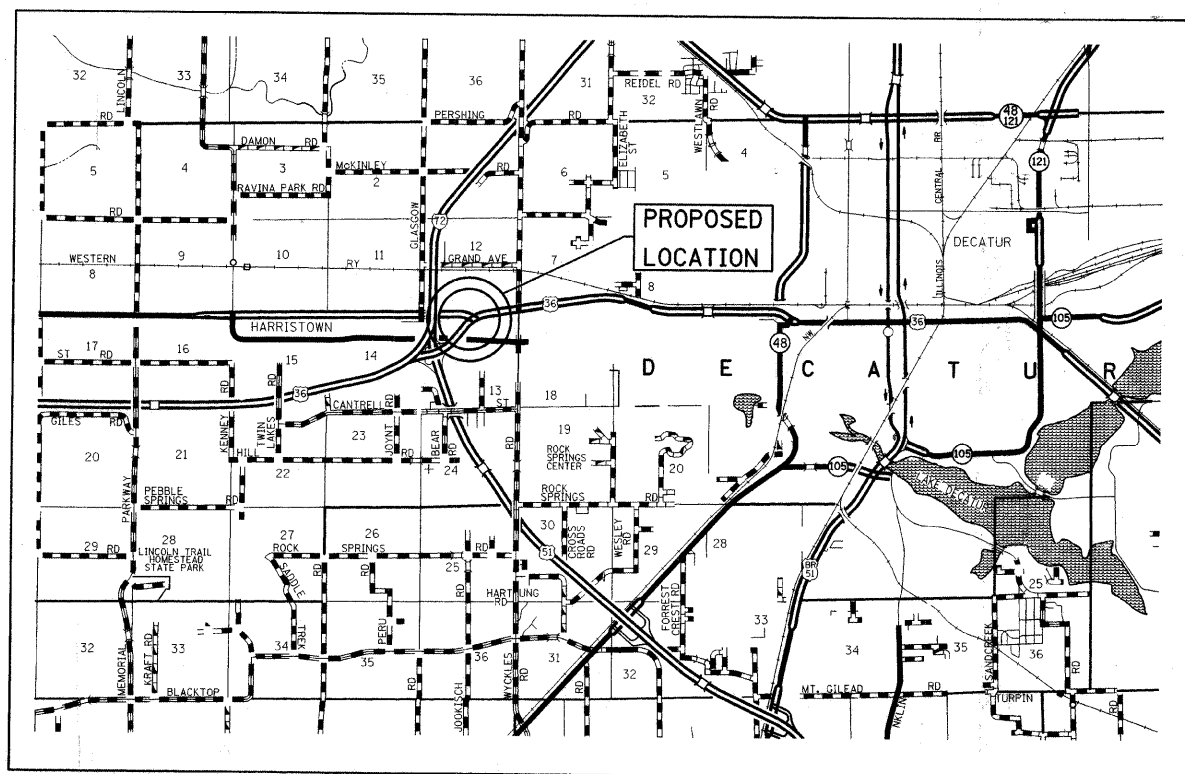
C-97-019-08

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(58-62)TS	MACON	17	1
FED. ROAD DIST. NO. 7	ILLINOIS	CONTRACT NO. 74288		

D-97-006-08



FOR INDEX OF SHEETS, SEE SHEET NO. 2



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—ROB MACKLIN
 PROJECT DESIGNER—LYNN McCLELLAN
 PHONE: 217-342-8383
 CONTRACT NO. 74288

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

SUBMITTED October 26 2007
Christine M. Reedy
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

December 7, 2007
Eric E. Harner
 ENGINEER OF DESIGN AND ENVIRONMENT

December 7, 2007
Christine M. Reedy
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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 OF THE STATE OF ILLINOIS**

GENERAL NOTES

THIS SECTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS, THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED JANUARY 1, 2007; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" ADOPTED JANUARY 1, 2008; AND "THE SPECIAL PROVISIONS" INCLUDED IN THE PROPOSAL.

THIS PROJECT IS LOCATED AT THE INTERSECTION OF FAP 323 (US 36) & HARRISTOWN BLVD. (OLD US 36) IN THE VILLAGE OF HARRISTOWN, IN MACON COUNTY. THE WORK INCLUDED IN THIS SECTION CONSISTS OF INSTALLING TRAFFIC SIGNALS AND ALL OTHER WORK NECESSARY TO COMPLETE THIS SECTION. THE ADT FOR THIS INTERSECTION IS AS FOLLOWS: ON HARRISTOWN BLVD IS 4400, ON THE WEST PORTION OF US 36 IS 5700 AND ON THE EAST PORTION OF US 36 IS 8600.

THE EXISTING UTILITY LINES ARE SHOWN ON THE PLANS TO INDICATE THEIR PRESENCE AND APPROXIMATE LOCATION. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION. CALL J.U.L.I.E. AT 1-800-892-0123. THE ILLINOIS DEPARTMENT OF TRANSPORTATION IS NOT A MEMBER OF J.U.L.I.E. AND DOES HAVE HIGHWAY LIGHTING CABLE IN THE PROPOSED AREA. CALL 1-217-342-8382 FOR LOCATION OF IDOT FACILITIES.

THE TRAFFIC OPERATIONS UNIT CHIEF (MIKE WORTHEY) AT THE ILLINOIS DEPARTMENT OF TRANSPORTATION SHALL BE NOTIFIED AT 217-342-8284 AT LEAST 72 HOURS PRIOR TO TURNING ON ANY FLASHER OR CONTROLLER UNIT.

THE SIZE OF THE CABLE SUPPLIED SHALL BE EQUAL TO OR GREATER THAN THE SIZE OF THE CABLE REQUIRED TO CARRY THE LOAD BETWEEN THE CONTROLLER AND THE SERVICE INSTALLATION.

THE CONTRACTOR SHALL ARRANGE FOR A FACTORY OR SUPPLIER REPRESENTATIVE TO BE PRESENT AT THE INTERSECTION WHEN THE SIGNALS ARE TURNED ON. THE REPRESENTATIVE SHALL MAKE CERTAIN THAT ALL EQUIPMENT OPERATES TO THE SATISFACTION OF THE ENGINEER.

ALL HARDWARE SHALL BE TIGHTENED AND WELL SECURED. CABLES SHALL BE NEATLY WOUND IN HANDHOLES. CABLES SHALL BE NEATLY TRAINED IN THE CONTROLLER CABINET.

ALL THREADS OF BOLTS USED IN ASSEMBLY OF TRAFFIC SIGNAL COMPONENTS SHALL BE COATED WITH A NON-LEAD BASED ANTI-SEIZE COMPOUND, SIMILAR TO LEAD PLATE, PRIOR TO ASSEMBLY.

NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PLACING CONDUIT AT GREATER THAN 2 FOOT MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES.

THE CONTRACTOR IS RESPONSIBLE FOR UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY. THE COST OF THIS WORK IS TO BE INCLUDED WITH THE TRENCH AND BACKFILL FOR ELECTRICAL WORK PAY ITEM.

THE NUMBER OF CONDUCTORS FOR ELECTRIC CABLES AS SHOWN ON THE PLANS SHALL BE THE MINIMUM NUMBER OF CONDUCTORS FURNISHED FOR EACH LOCATION. THE CONTRACTOR MAY SUBSTITUTE AN ELECTRIC CABLE WITH MORE CONDUCTORS THAN SPECIFIED BUT NO ADDITIONAL COMPENSATION WILL BE MADE FOR THE EXTRA CONDUCTORS.

ALL NEW TRAFFIC SIGNAL WIRING SHALL EXTEND FROM CONTROLLER TO SIGNAL. SPLICES IN HANDHOLES WILL NOT BE ALLOWED.

ALL MAST ARM MOUNTED SIGNAL HEADS ON AN INDIVIDUAL MAST ARM SHALL BE MOUNTED SO THAT THE RED INDICATIONS ARE LEVEL WITH EACH OTHER.

TRAFFIC SIGNAL HEADS SHALL BE PROPERLY COVERED PRIOR TO INTERSECTION TURN-ON OR AS DIRECTED BY THE ENGINEER. THIS COST SHALL BE INCLUDED WITH THE COST OF THE ASSOCIATED SIGNAL HEAD PAY ITEMS.

ALL TRAFFIC SIGNAL MAST ARM ASSEMBLIES (STANDARD, COMBINATION, OR DUAL) MUST BE DESIGNED FOR THE LOADINGS SHOWN ON THE HIGHWAY STANDARDS OR THESE SIGNAL PLANS, WHICHEVER IS GREATER.

ILLINOIS DEPARTMENT OF TRANSPORTATION
MIKE WORTHEY
TRAFFIC OPERATIONS UNIT CHIEF
400 W. WABASH AVE.
EFFINGHAM, IL 62401
PH. 217-342-8284

AMEREN-IP
TAMMY BALLENGER
2460 N. JASPER ST.
MAIL CODE: K-30
DECATUR, IL 62526
PH. 217-424-8784
CONSTRUCTION PH: 1-800-892-7715

INDEX OF SHEETS

1	COVER SHEET
2	INDEX OF SHEETS AND GENERAL NOTES
3	SUMMARY OF QUANTITIES
4	TRAFFIC SIGNAL-SIGNAL LAYOUT
5	TRAFFIC SIGNAL-CABLE LAYOUT
6	EASTBOUND-ADVANCED FLASHING BEACON-LAYOUT, CABLE & CONDUIT
7	EASTBOUND-DETECTOR LOOPS-CABLE
8	WESTBOUND-DETECTOR LOOPS-CABLE
9	SOUTHBOUND-DETECTOR LOOPS-CABLE
10	DETECTOR LOOPS
11	SIGN NAMES, BOLT PATTERN, POST MOUNTED FLASHING BEACON SERVICE INSTALLATION, TYPE A (MODIFIED)
12	PAVEMENT DETAILS
13	PAVEMENT MARKING REMOVAL AND REPLACEMENT
14	BORING LOGS
15	TYPICAL APPLICATION OF DETECTOR LOOPS
16-17	TYPICAL APPLICATION OF PAVEMENT MARKINGS

THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDED AFTER SHEET NO. 17:

000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
420001-07	PAVEMENT JOINTS
420701-02	PAVEMENT FABRIC
701101-01	OFF-RD OPERATIONS, MULTILANE, 15' TO 2' FROM EDGE OF PAVEMENT
701106-01	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701421-01	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY FOR SPEEDS >= 45 TO 55 MPH
701701-05	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901	TRAFFIC CONTROL DEVICES
720001	SIGN PANEL MOUNTING DETAILS
720006	SIGN PANEL ERECTION DETAILS
720016-01	MAST ARM MOUNTED STREET NAME SIGNS
780001-01	TYPICAL PAVEMENT MARKINGS
805001	ELECTRICAL SERVICE INSTALLATION DETAILS
814001-01	HANDHOLES
814006-01	DOUBLE HANDHOLES
857001	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
862001	UNINTERRUPTABLE POWER SUPPLY (UPS)
873001-01	TRAFFIC SIGNAL GROUNDING
877001-03	STEEL MAST ARM ASSEMBLY AND POLE
878001-06	CONCRETE FOUNDATION DETAILS
880006	TRAFFIC SIGNAL MOUNTING DETAILS
886001	DETECTOR LOOP INSTALLATIONS
886006	TYPICAL LAYOUTS FOR DETECTOR LOOPS

FILE NAME = c:\projects\74288d\shstplan_74288.dgn	USER NAME = mcllellonis	DESIGNED - LAM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES & INDEX OF SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 20,0000' / IN.	DRAWN - LAM	REVISED -			323	(58-62)TS	MACON	17	2
PLOT DATE = 12/13/2007	CHECKED - DRM	REVISED -	REVISED -	SCALE: NTS	SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				
	DATE -	REVISED -				CONTRACT NO. 74288				

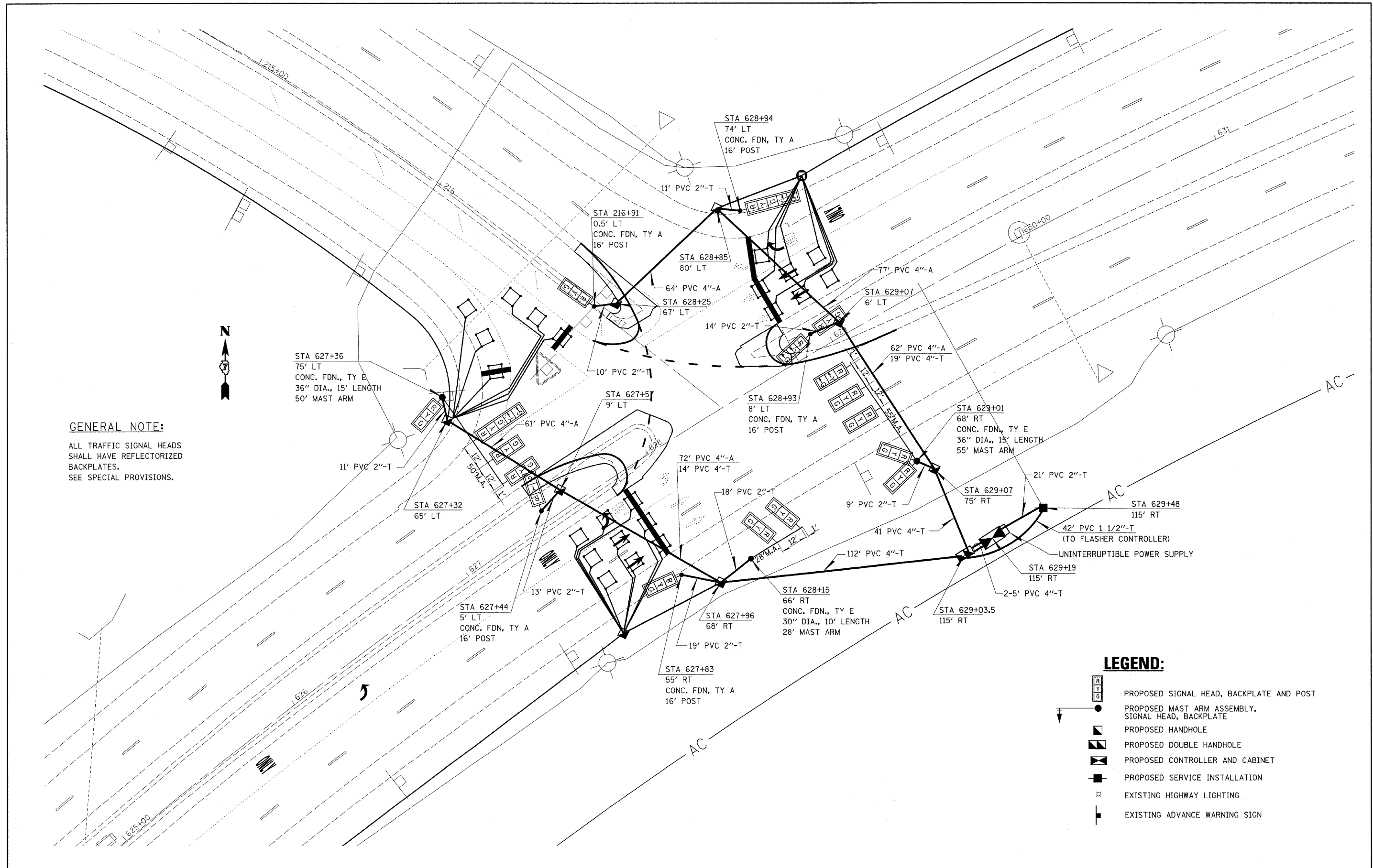
SUMMARY OF QUANTITIES

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT	100% STATE TOTAL QUANTITIES	Y031-1F	
20200100	EARTH EXCAVATION	CU YD	21	21	
31101200	SUB-BASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	204	204	
42000500	PORTLAND CEMENT CONCRETE PAVEMENT 10"	SQ YD	204	204	
42001200	PAVEMENT FABRIC	SQ YD	204	204	
44004250	PAVED SHOULDER REMOVAL	SQ YD	143	143	
67100100	MOBILIZATION	L SUM	1	1	
70100310	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	L SUM	1	1	
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1	
* 72000100	SIGN PANEL - TYPE 1	SQ FT	8	8	
* 72000200	SIGN PANEL - TYPE 2	SQ FT	24	24	
* 78005100	EPOXY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	119	119	
* 78005130	EPOXY PAVEMENT MARKING - LINE 6"	FOOT	46	46	
* 78005180	EPOXY PAVEMENT MARKING - LINE 24"	FOOT	110	110	
* 78005150	EPOXY PAVEMENT MARKING - LINE 12"	FOOT	222	222	
* 78300100	PAVEMENT MARKING REMOVAL	SQ FT	119	119	
80500105	SERVICE INSTALLATION, TYPE A (MODIFIED)	EACH	1	1	
81012200	CONDUIT IN TRENCH, 3/4" DIA., PVC	FOOT	612	612	
81012500	CONDUIT IN TRENCH, 1 1/2" DIA., PVC	FOOT	1462	1462	
81012600	CONDUIT IN TRENCH, 2" DIA., PVC	FOOT	159	159	
81013000	CONDUIT IN TRENCH, 4" DIA., PVC	FOOT	196	196	
81021540	CONDUIT, AUGERED 1 1/2" DIA., PVC	FOOT	61	61	
81021590	CONDUIT, AUGERED 4" DIA., PVC	FOOT	336	336	
81100500	CONDUIT ATTACHED TO STRUCTURE, 1 1/2" DIA., GALVANIZED STEEL	FOOT	28	28	
81400100	HANDHOLE	EACH	9	9	
81400300	DOUBLE HANDHOLE	EACH	1	1	
81500100	GULFBOX JUNCTION	EACH	6	6	
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	2429	2429	
85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1	1	
85800100	FLASHER CONTROLLER	EACH	1	1	
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1041	1041	
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2571	2571	
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	640	640	

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT	100% STATE TOTAL QUANTITIES	Y031-1F	
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	6867	6867	
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	34	34	
87502700	TRAFFIC SIGNAL POST, ALUMINUM 16 FT.	EACH	5	5	
87700180	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1	1	
87700290	STEEL MAST ARM ASSEMBLY AND POLE, 50 FT.	EACH	1	1	
87700320	STEEL MAST ARM ASSEMBLY AND POLE, 55 FT.	EACH	1	1	
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	15	15	
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	3	3	
87800200	CONCRETE FOUNDATION, TYPE D	FOOT	3	3	
87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	10	10	
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	30	30	
88040030	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 1-SECTION, POST MOUNTED	EACH	2	2	
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	6	6	
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	7	7	
88040150	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1	1	
88040160	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1	1	
88040230	SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1	1	
88200400	TRAFFIC SIGNAL BACKPLATE, FORMED PLASTIC	EACH	19	19	
88500100	INDUCTIVE LOOP DETECTOR	EACH	18	18	
88600100	DETECTOR LOOP, TYPE I	FOOT	1248	1248	
X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	747	747	
XX004574	UNINTERRUPTIBLE POWER SUPPLY AND TYPE III CABINET	EACH	1	1	

*SPECIALTY ITEMS

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PLOT SCALE = 20.0000' / IN.				CHECKED - DRM		CONTRACT NO. 74288		FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT		
PLOT DATE = 10/26/2007				DATE -		SCALE:		SHEET NO. OF SHEETS STA. TO STA.		



GENERAL NOTE:

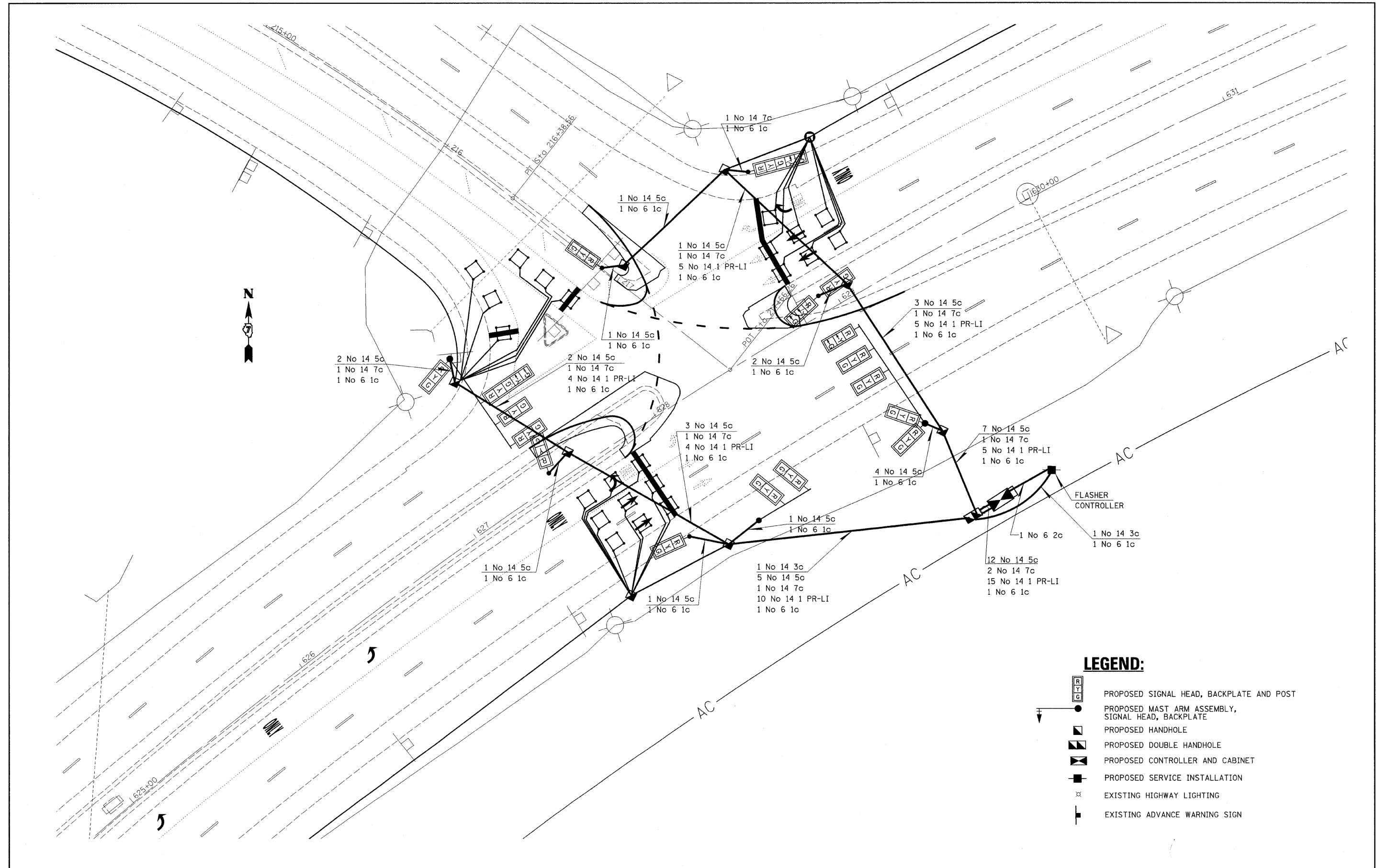
ALL TRAFFIC SIGNAL HEADS SHALL HAVE REFLECTORIZED BACKPLATES. SEE SPECIAL PROVISIONS.



LEGEND:

- PROPOSED SIGNAL HEAD, BACKPLATE AND POST
- PROPOSED MAST ARM ASSEMBLY, SIGNAL HEAD, BACKPLATE
- PROPOSED HANDHOLE
- PROPOSED DOUBLE HANDHOLE
- PROPOSED CONTROLLER AND CABINET
- PROPOSED SERVICE INSTALLATION
- EXISTING HIGHWAY LIGHTING
- EXISTING ADVANCE WARNING SIGN

FILE NAME = c:\projects\74288d\shstplan_74288.dgn	USER NAME = mcoileltonia	DESIGNED - LAM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US 36 & HARRISTOWN BLVD. TRAFFIC SIGNALS-SIGNAL LAYOUT		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = 10/26/2007	CHECKED - DRM	DATE -	REVISED -	SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				
							CONTRACT NO. 74288				



LEGEND:

- PROPOSED SIGNAL HEAD, BACKPLATE AND POST
- PROPOSED MAST ARM ASSEMBLY, SIGNAL HEAD, BACKPLATE
- PROPOSED HANDHOLE
- PROPOSED DOUBLE HANDHOLE
- PROPOSED CONTROLLER AND CABINET
- PROPOSED SERVICE INSTALLATION
- EXISTING HIGHWAY LIGHTING
- EXISTING ADVANCE WARNING SIGN

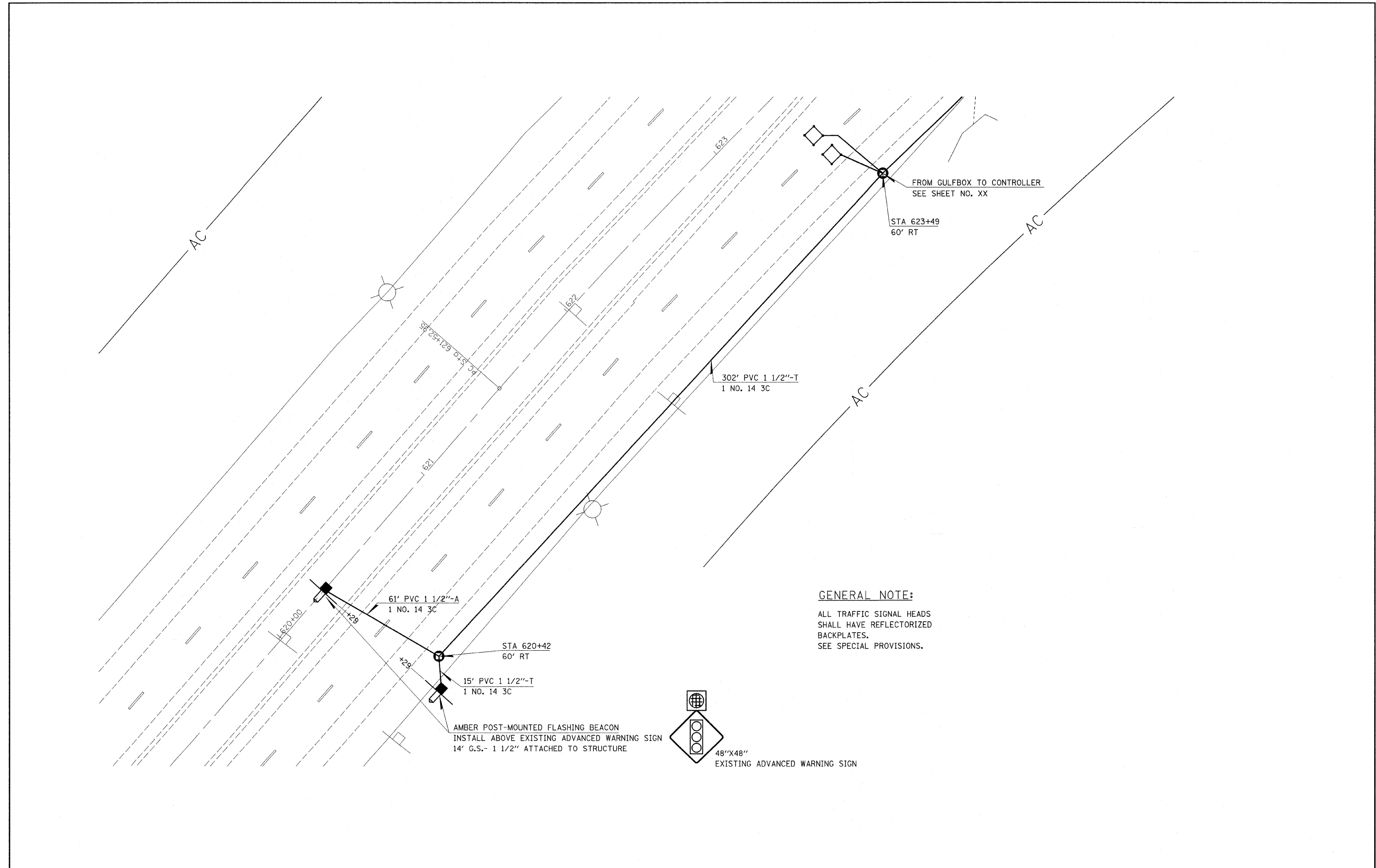
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		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

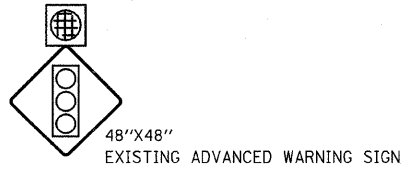
US 36 & HARRISTOWN BLVD. TRAFFIC SIGNALS-CABLE LAYOUT			
SCALE:	SHEET NO. OF SHEETS	STA.	TO STA.

F.A.P. RTE. 323	SECTION (58-62)TS	COUNTY MACON	TOTAL SHEETS 17	SHEET NO. 5
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

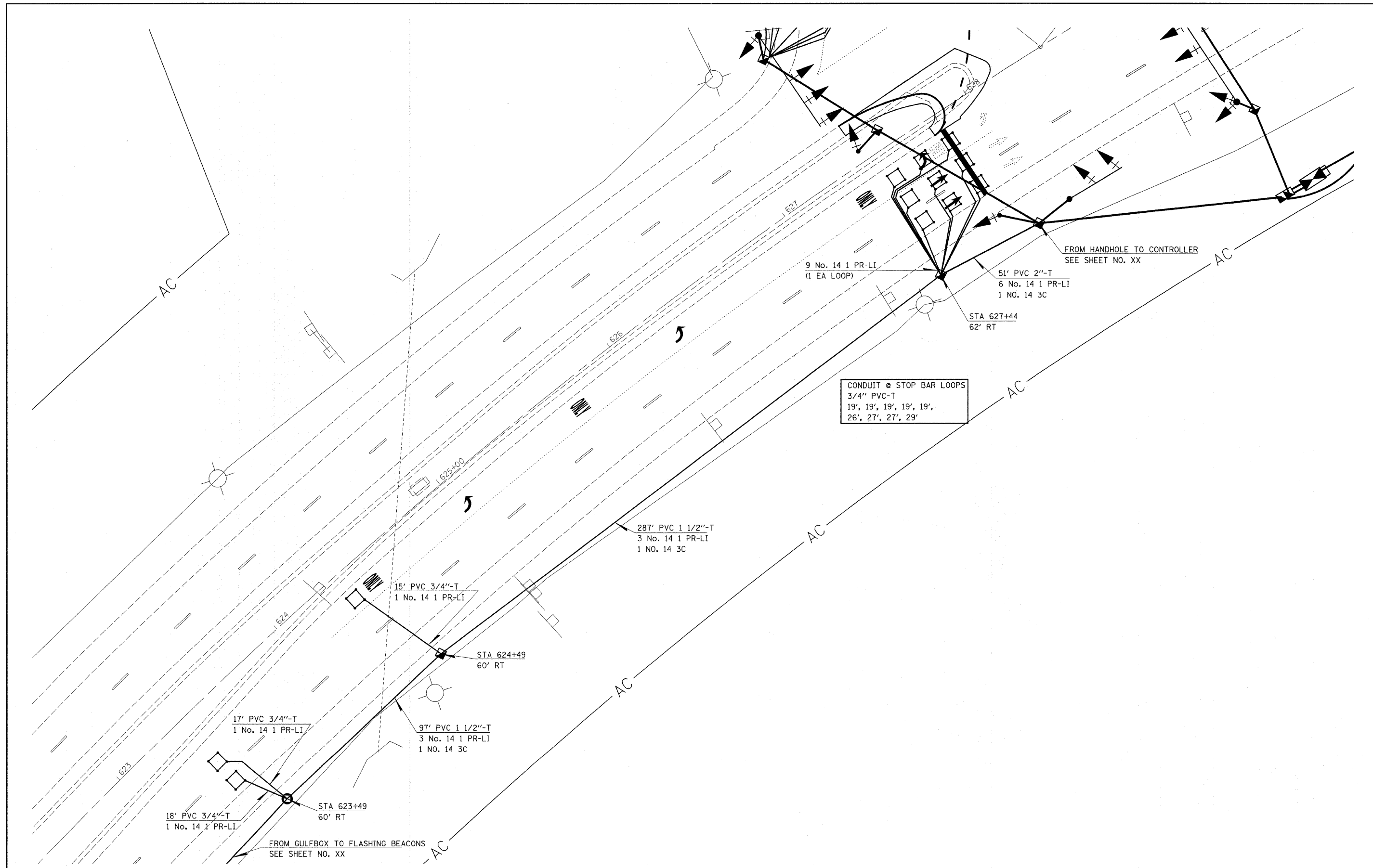
CONTRACT NO. 74288



GENERAL NOTE:
 ALL TRAFFIC SIGNAL HEADS SHALL HAVE REFLECTORIZED BACKPLATES.
 SEE SPECIAL PROVISIONS.



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	PLOT SCALE = 20,000' / IN.	DRAWN - LAM	REVISED -					323	(58-62)TS	MACON	17	6
	PLOT DATE = 10/25/2007	CHECKED - DRM	REVISED -					CONTRACT NO. 74288				
		DATE -	REVISED -					FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				
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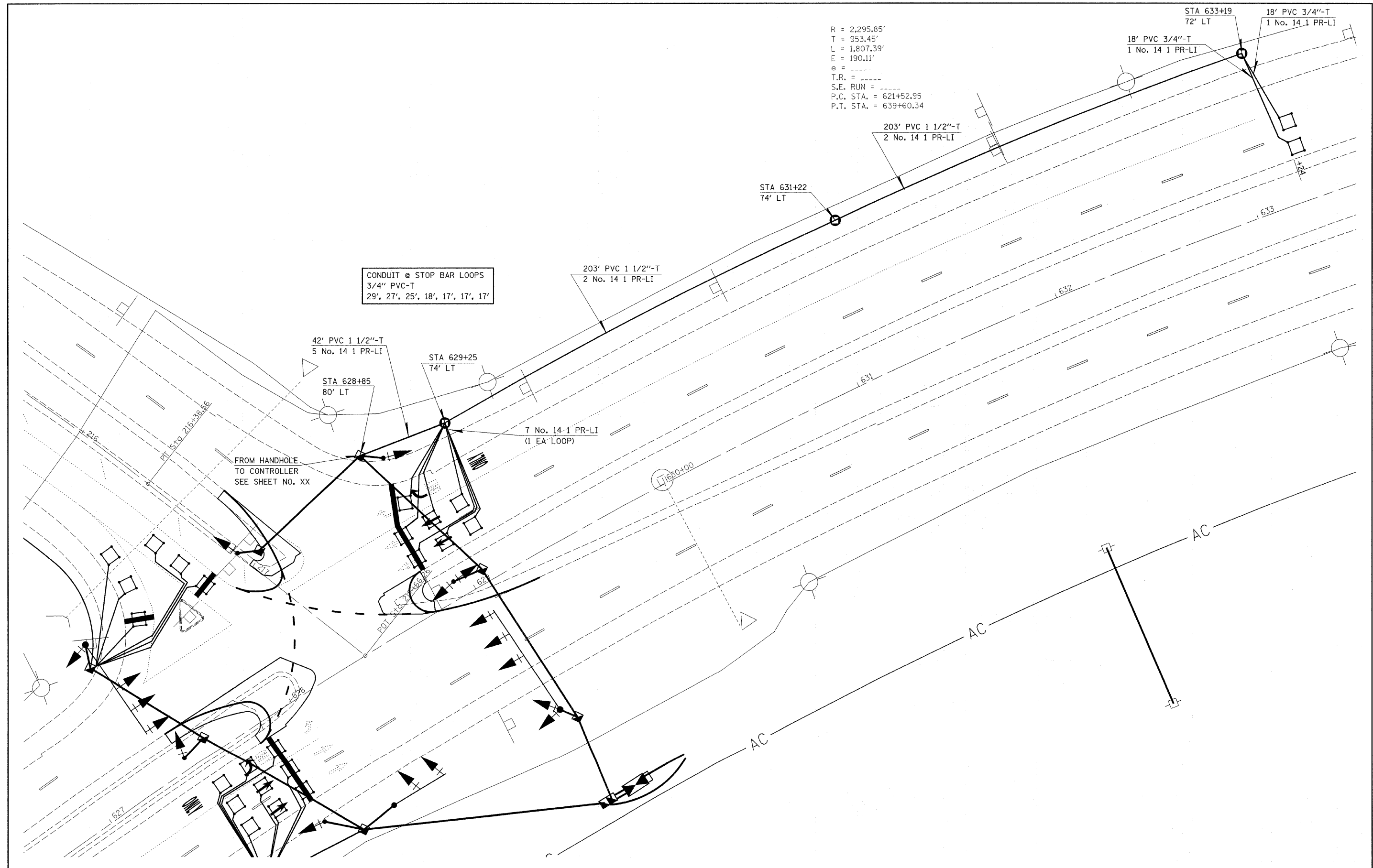


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	PLOT DATE = 10/26/2007		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

US 36 & HARRISTOWN BLVD. EASTBOUND - DETECTOR LOOPS - CABLE			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

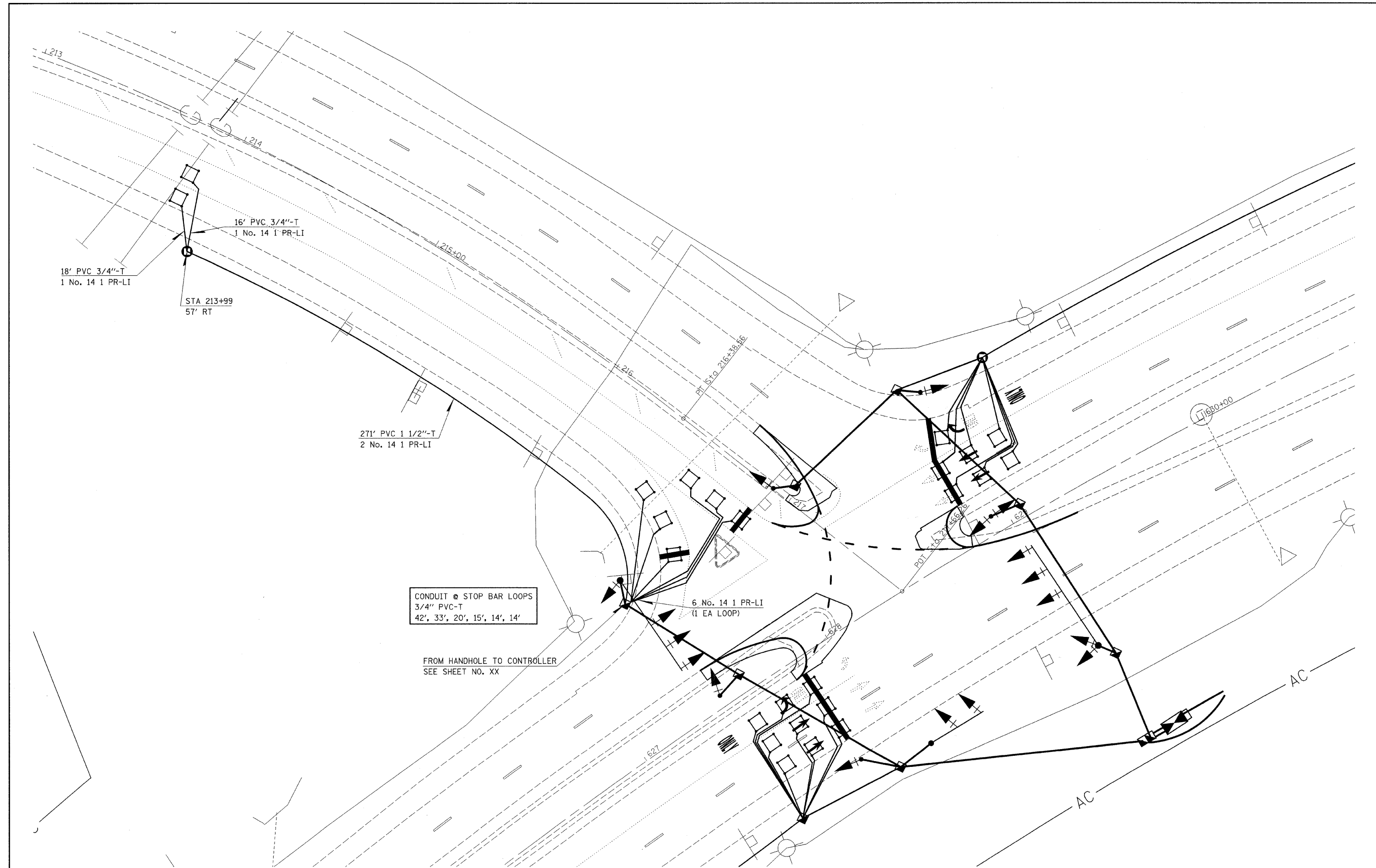
F.A.P. RTE. 323	SECTION (58-62)TS	COUNTY MACON	TOTAL SHEETS 17	SHEET NO. 7
CONTRACT NO. 74288				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				



R = 2,295.85'
 T = 953.45'
 L = 1,807.39'
 E = 190.11'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 621+52.95
 P.T. STA. = 639+60.34

CONDUIT @ STOP BAR LOOPS
 3/4" PVC-T
 29', 27', 25', 18', 17', 17', 17'

FILE NAME = ca:\projects\74288d\shplan_74288.dgn	USER NAME = mciellenis	DESIGNED - LAM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US 36 & HARRISTOWN BLVD. WESTBOUND - DETECTOR LOOPS - CABLE	F.A.P. RTE. 323	SECTION (58-62)TS	COUNTY MACON	TOTAL SHEETS 17	SHEET NO. 8
	PLOT SCALE = 20,000' / IN.	CHECKED - DRM	REVISED -			SCALE:	SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT	CONTRACT NO. 74288	
	PLOT DATE = 10/25/2007	DATE -	REVISED -							



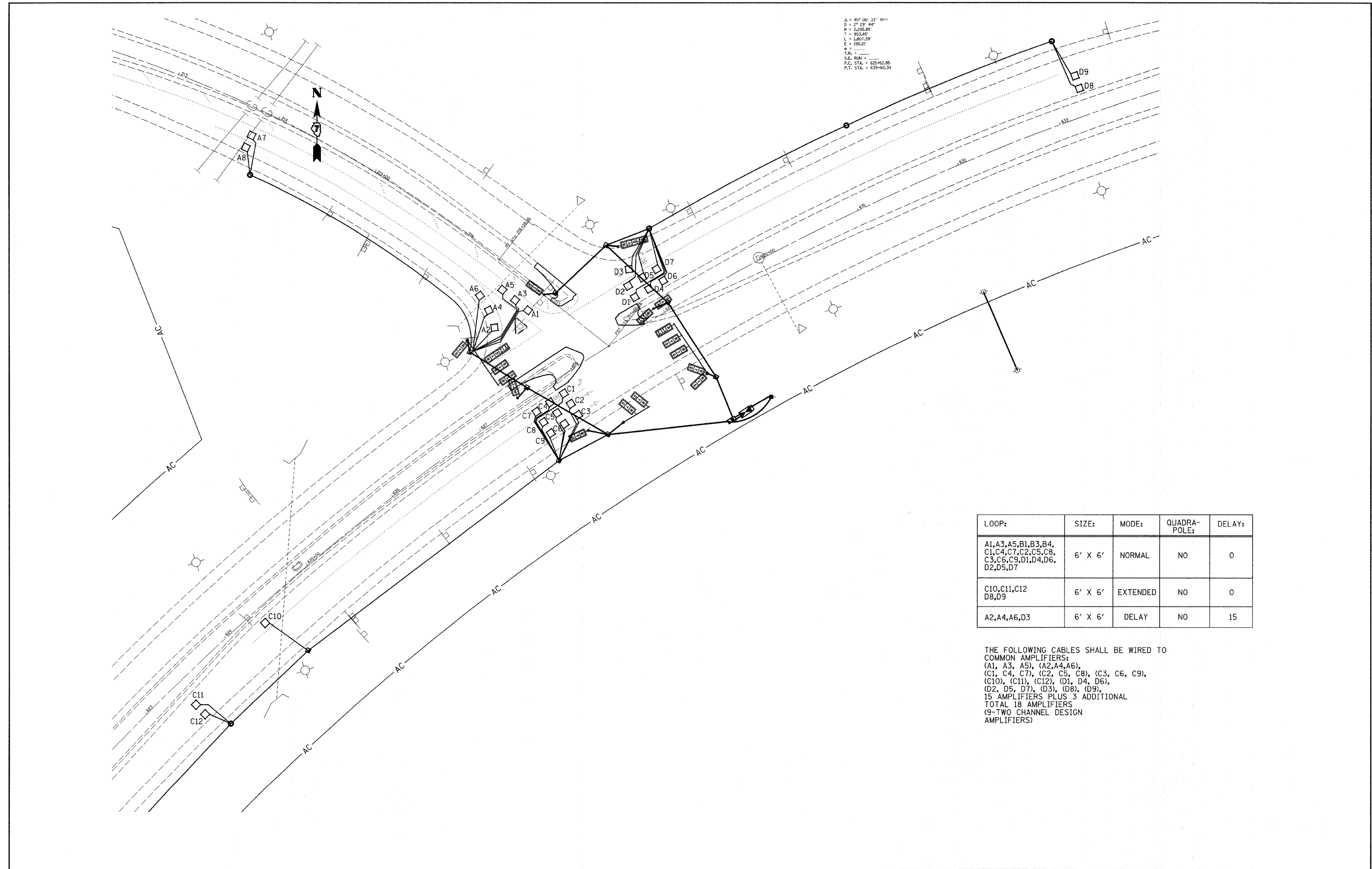
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		DATE -	REVISED -
PLOT SCALE = 20,0000' / IN.			
PLOT DATE = 10/26/2007			

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US 36 & HARRISTOWN BLVD.
SOUTHBOUND - DETECTOR LOOPS - CABLE**

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

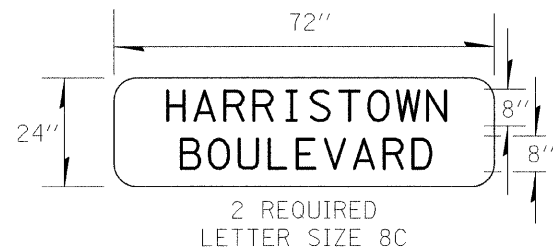
F.A.P. RTE. 323	SECTION (58-62)TS	COUNTY MACON	TOTAL SHEETS 17	SHEET NO. 9
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				
CONTRACT NO. 74288				



LOOP:	SIZE:	MODE:	QUADRA-POLE:	DELAY:
A1,A3,A5,B1,B3,B4, C1,C4,C7,C2,C5,C8, C3,C6,C9,D1,D4,D6, D2,D5,D7	6' X 6'	NORMAL	NO	0
C10,C11,C12 D8,D9	6' X 6'	EXTENDED	NO	0
A2,A4,A6,D3	6' X 6'	DELAY	NO	15

THE FOLLOWING CABLES SHALL BE WIRED TO COMMON AMPLIFIERS:
 (A1, A3, A5), (A2,A4,A6),
 (C1, C4, C7), (C2, C5, C8), (C3, C6, C9),
 (C10), (C11), (C12), (D1, D4, D6),
 (D2, D5, D7), (D3), (D8), (D9),
 15 AMPLIFIERS PLUS 3 ADDITIONAL
 TOTAL 18 AMPLIFIERS
 (9-TWO CHANNEL DESIGN
 AMPLIFIERS)

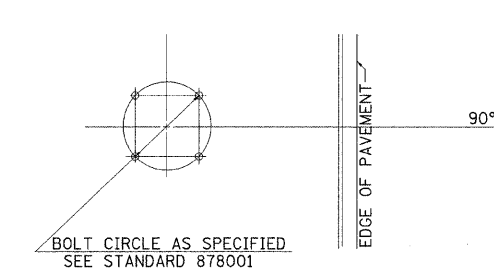
STREET NAME SIGNS



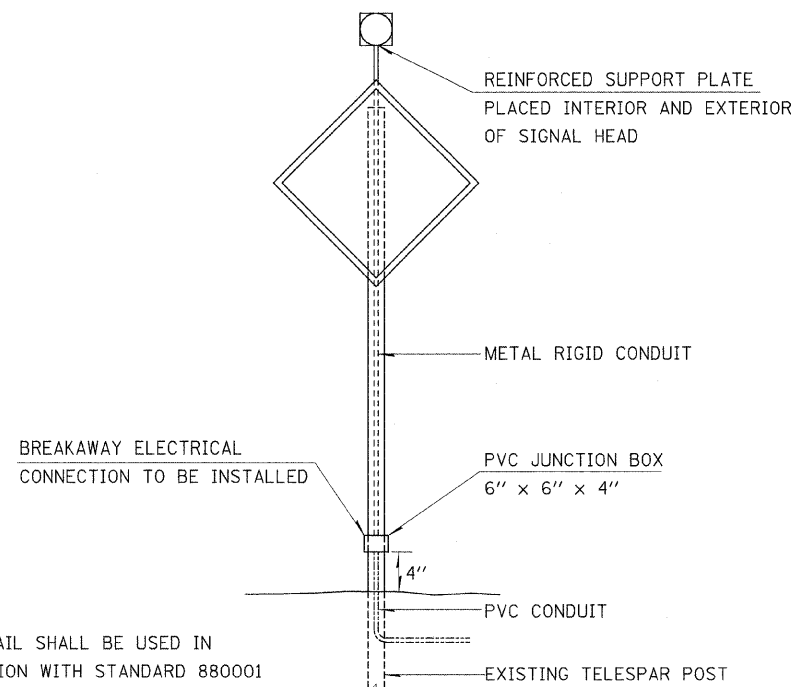
STREET NAME SIGNS

NOTES:

1. ALL SIGNS SHALL HAVE A WHITE REFLECTORIZED LEGEND AND BORDER ON A GREEN REFLECTORIZED BACKGROUND.
2. ZZ SHEETING IS REQUIRED.

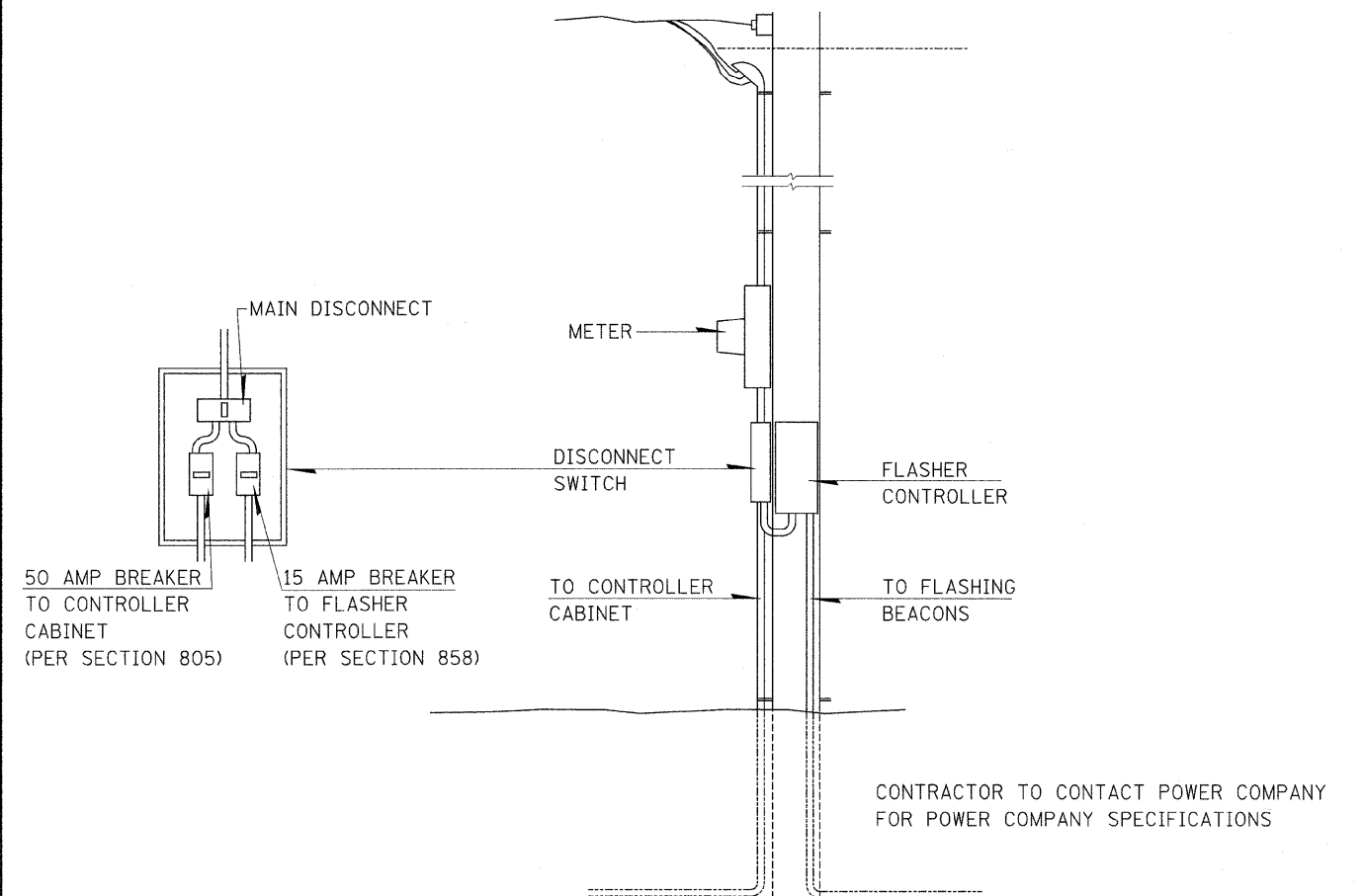


**DETAIL OF MAST ARM FOUNDATION
BOLT PATTERN**



THIS DETAIL SHALL BE USED IN
CONJUNCTION WITH STANDARD 880001

POST MOUNTED FLASHING BEACON



SERVICE INSTALLATION, TYPE A (MODIFIED)

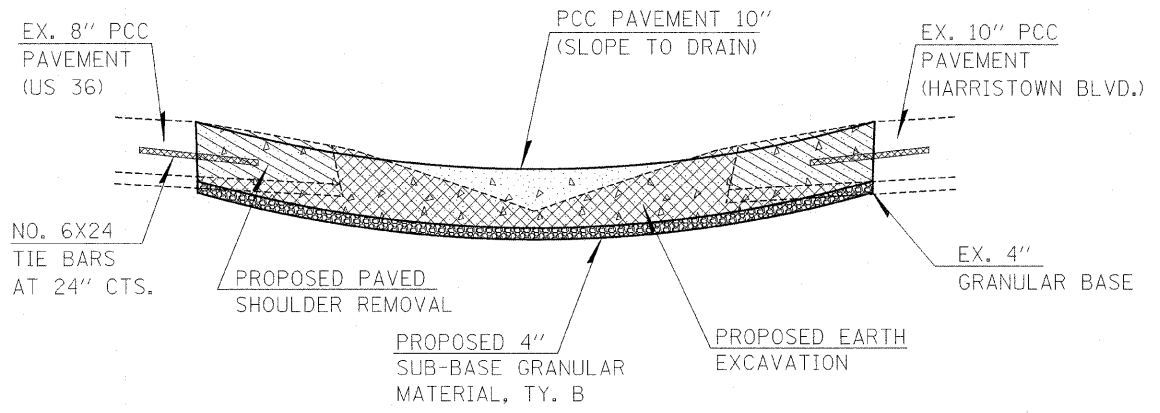
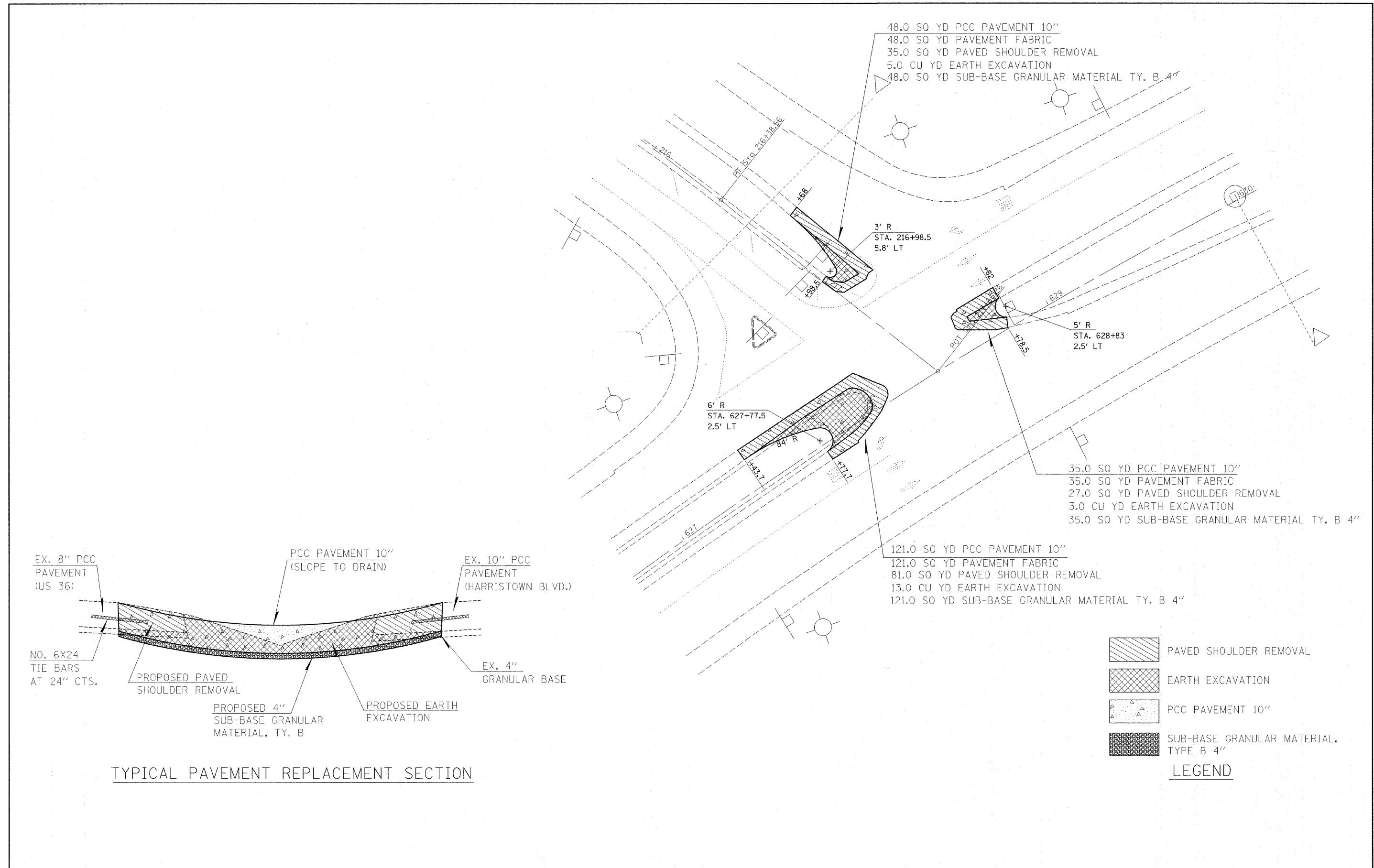
FILE NAME = cs:\projects\74288d\shplan_74288.dgn	USER NAME = mcolellonia	DESIGNED - LAM	REVISED -
		DRAWN - LAM	REVISED -
		CHECKED - DRM	REVISED -
		DATE -	REVISED -
PLOT SCALE = 20:2000 1/4" = 1'			
PLOT DATE = 12/13/2007			

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SIGN NAMES, BOLT PATTERN, POST MOUNTED
FLASHING BEACON & SERVICE INSTALLATION, TYPE A (MODIFIED)**



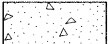

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
323	(58-62)TS	MACON	17	11
CONTRACT NO. 74288				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

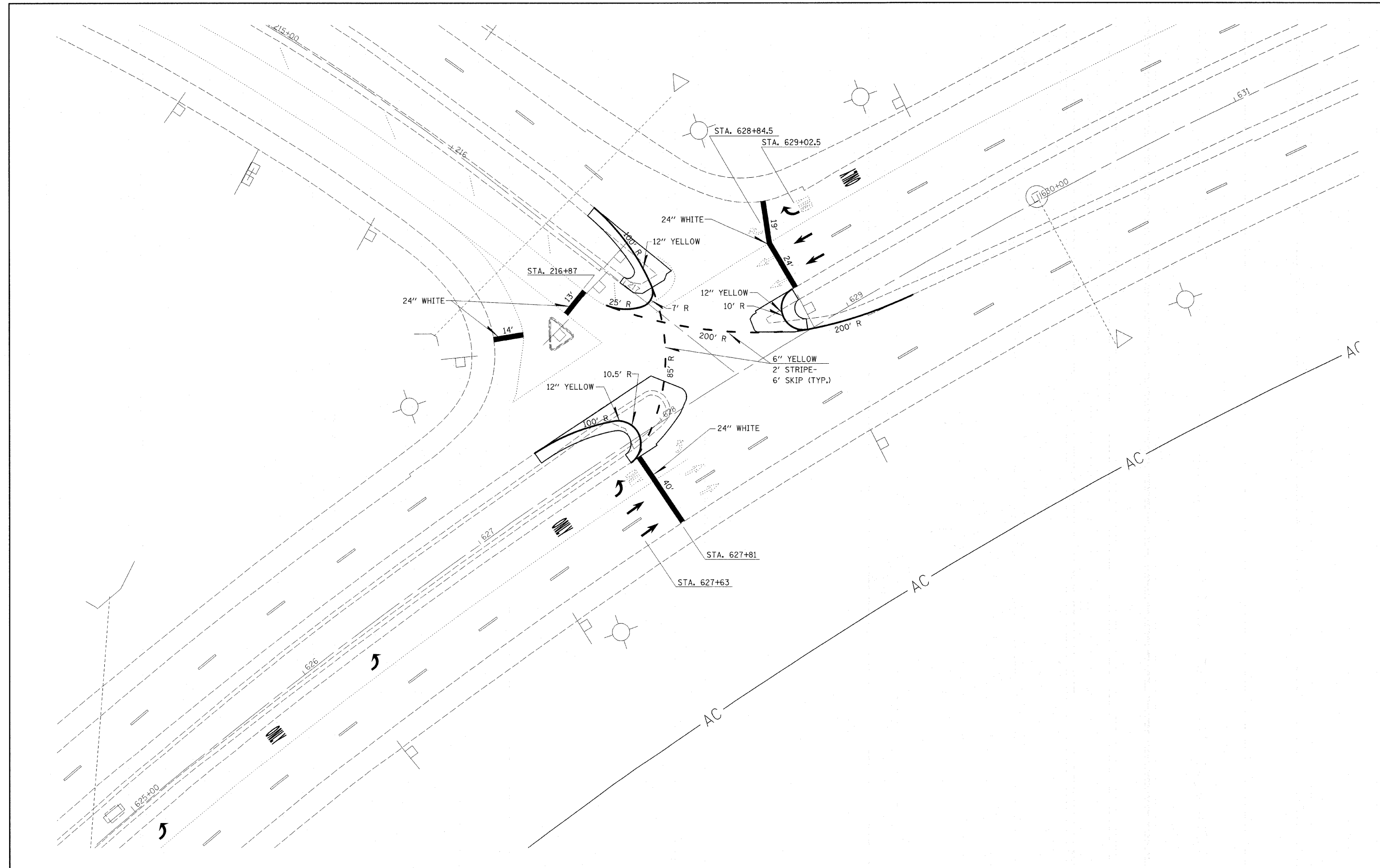


TYPICAL PAVEMENT REPLACEMENT SECTION

LEGEND

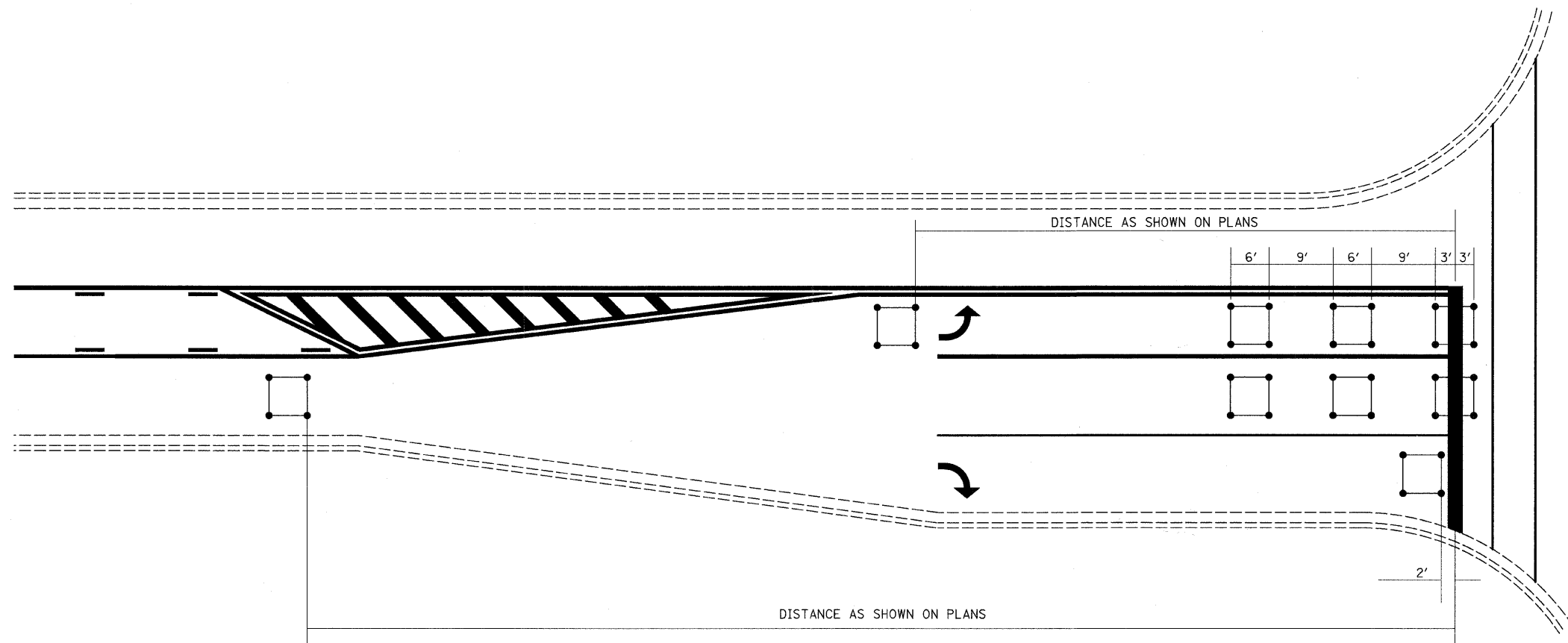
-  PAVED SHOULDER REMOVAL
-  EARTH EXCAVATION
-  PCC PAVEMENT 10"
-  SUB-BASE GRANULAR MATERIAL, TYPE B 4"

FILE NAME = c:\projects\74288d\shplan_74288.dgn	USER NAME = mcollenla	DESIGNED - LAM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US 36 & HARRISTOWN BLVD. PAVEMENT DETAILS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 20.0000' / IN.	DRAWN - LAM	REVISED -					323	(58-62)TS	MACON	17	12
	PLOT DATE = 12/13/2007	CHECKED - DRM	REVISED -					CONTRACT NO. 74288				
	DATE -	REVISED -	FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT									



FILE NAME = c:\projects\74288d\shplan_74288.dgn	USER NAME = mclellonia	DESIGNED - LAM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US 36 & HARRISTOWN BLVD. PAVEMENT MARKING REMOVAL AND REPLACEMENT			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 20,0000' / IN.	DRAWN - LAM	REVISED -					323	(58-62)TS	MACON	17	13
	PLOT DATE = 12/13/2007	CHECKED - DRM	REVISED -					CONTRACT NO. 74288				
	DATE -	REVISED -	FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT									
					SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.		

TYPICAL APPLICATION OF DETECTOR LOOPS



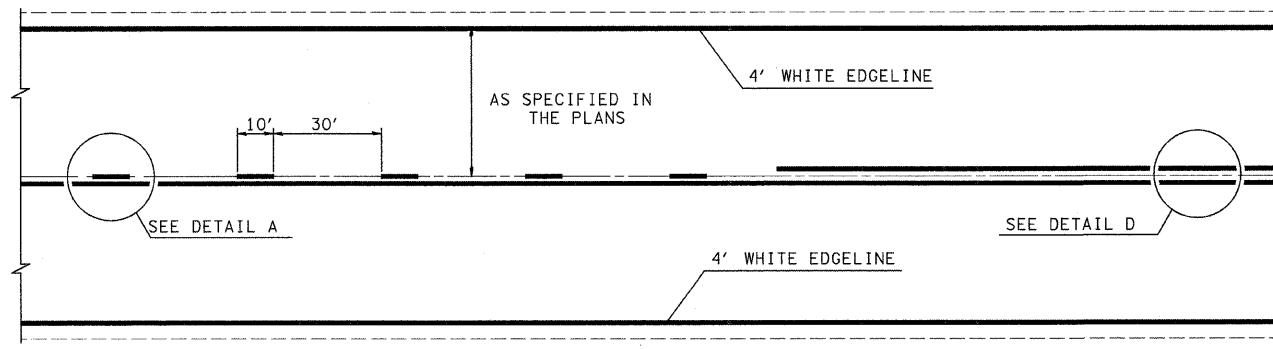
NUMBER OF TURNS REQUIRED IN DETECTOR LOOPS														
5 X 5		6 X 6		6 X 15		6 X 30		6 X 35		6 X 40		6 X 50		LOOP SIZE
FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	
0	681	546	818	956	1432	1637	2455	1865	2795	2092	3136	2546	3818	2 TURNS
682	954	819	1145	1433	2005	2456	3436	2796	3914					3 TURNS
955	1272	1146	1527	2006	2673									4 TURNS
1273	1636	1528	1964	2674	3436									5 TURNS
1637	2045	1965	2455											6 TURNS
2046	2499	2456	3000											7 TURNS
														8 TURNS
														9 TURNS
														10 TURNS

THE NUMBERS IN THE TABLE REPRESENT THE DISTANCE FROM THE CABINET TO THE DETECTOR LOOP IN FEET

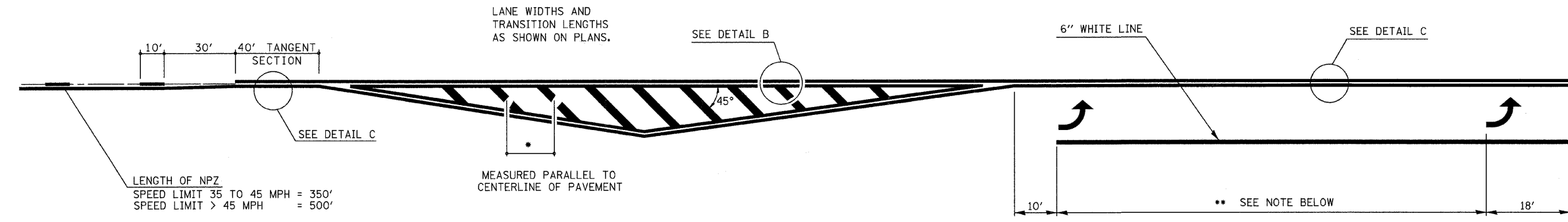
NOTES:

1. EACH LOOP SHALL HAVE ITS OWN HOMERUN TO THE GULFBOX/HANDHOLE.
2. LOOPS SHOULD BE CENTERED IN EACH LANE.
3. USE 6' BY 6' LOOPS FOR LANE WIDTHS OF 11' OR GREATER.
4. USE 5' BY 5' LOOPS IF LANE WIDTH IS LESS THAN 11'.

NOT TO SCALE



TYPICAL CENTERLINE, NO PASSING ZONE LINE (NPZ) & EDGELINE MARKINGS
2-LANE PAVEMENT



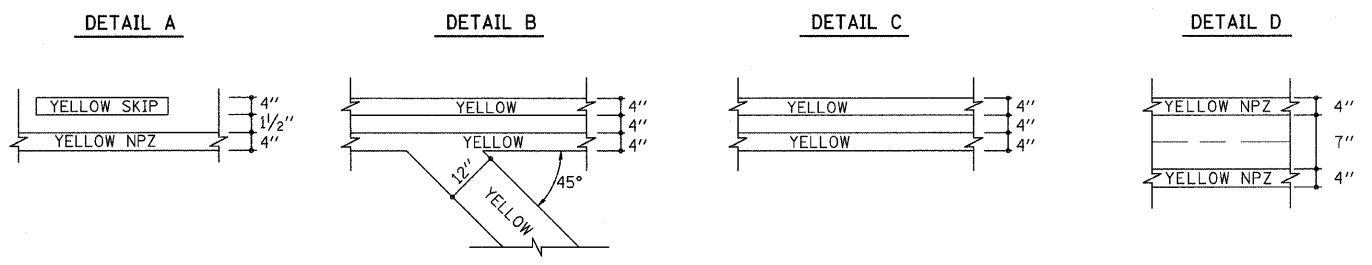
LENGTH OF NPZ
SPEED LIMIT 35 TO 45 MPH = 350'
SPEED LIMIT > 45 MPH = 500'

•DIAGONAL SPACING

SPEED LIMIT	< 30 MPH	= 15'
SPEED LIMIT	30 TO 45 MPH	= 20'
SPEED LIMIT	> 45 MPH	= 30'

** PLACE THE FIRST ARROW EVEN WITH THE BEGINNING OF THE TURN BAY.
PLACE ANOTHER ARROW 18' BACK FROM THE STOP BAR. IF REQUIRED,
ADD ADDITIONAL ARROWS TO MAINTAIN A MAXIMUM OF 80' SPACING.

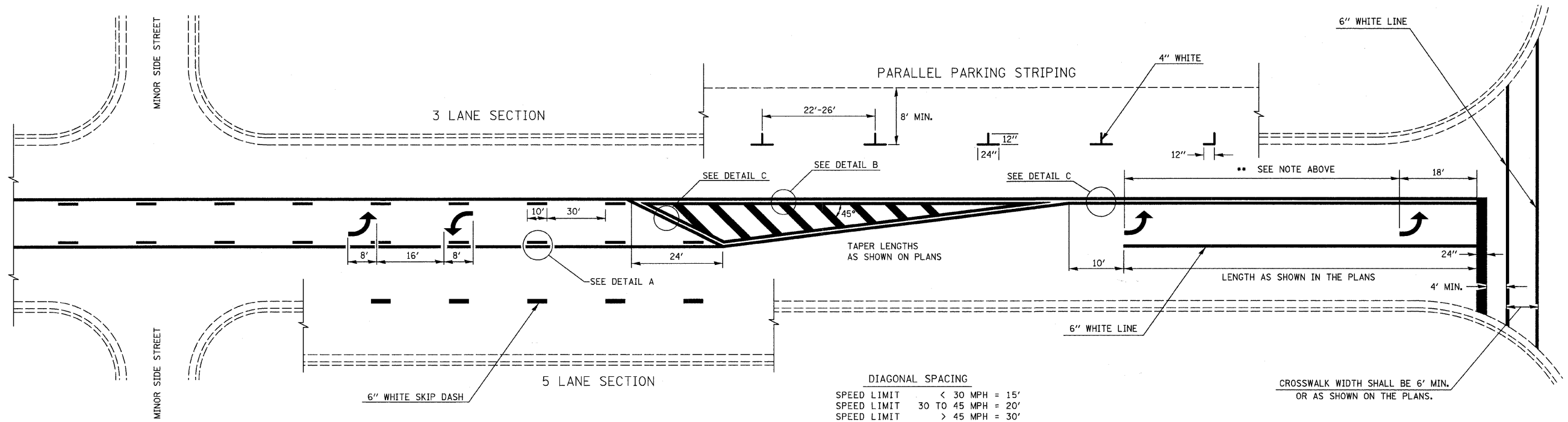
- NOTES:
1. OMIT EDGELINE THRU SIDE ROADS.
 2. TAPER RATES, LANE WIDTHS, AND STORAGE LENGTHS AS SHOWN ON THE PLANS.
 3. WHEN MEDIANS ARE PRESENT, PLACE A SINGLE YELLOW STRIPE AROUND ITS PERIMETER.



NOT TO SCALE

FILE NAME = c:\projects\74288d\shplan_74288.dgn	USER NAME = mociellonia	DESIGNED - DRAWN - MMO	REVISED - DRM 08-04 REVISED - CHECKED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL APPLICATION OF PAVEMENT MARKINGS SHEET 1 OF 2		F.A.P. RTE. 323	SECTION (58-62)TS	COUNTY MACON	TOTAL SHEETS 17	SHEET NO. 16
PLOT SCALE = 20,0000' / IN.	PLOT DATE = 10/26/2007	DATE = 12-99	REVISED -		SCALE:	SHEET NO. OF SHEETS STA.	ISSUED: 05-06-96 TO STA.	CONTRACT NO. 74288 FED. ROAD DIST. NO. 7 (ILLINOIS) FED. AID PROJECT			

•• PLACE THE FIRST ARROW EVEN WITH THE BEGINNING OF THE TURN BAY.
 PLACE ANOTHER ARROW 18' BACK FROM THE STOP BAR. IF REQUIRED,
 ADD ADDITIONAL ARROWS TO MAINTAIN A MAXIMUM OF 80' SPACING.



DIAGONAL SPACING

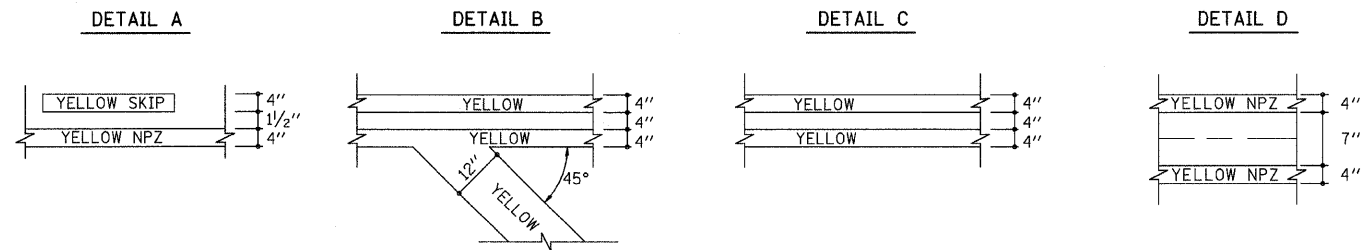
SPEED LIMIT	< 30 MPH	= 15'
SPEED LIMIT	30 TO 45 MPH	= 20'
SPEED LIMIT	> 45 MPH	= 30'

CROSSWALK WIDTH SHALL BE 6' MIN.
 OR AS SHOWN ON THE PLANS.

TYPICAL BI-DIRECTIONAL TURN LANE MARKINGS
 (SHOWING TRANSITION TO EXCLUSIVE LEFT TURN LANE)

NOTES:

1. NO LESS THAN 2 ARROWS SHALL BE USED.
2. TAPER RATES, LANE WIDTHS, AND STORAGE LENGTHS AS SHOWN ON THE PLANS.
3. AVOID PLACING BI-DIRECTIONAL ARROWS IN INTERSECTIONS.
4. BI-DIRECTIONAL ARROWS SHALL BE SPACED A MAXIMUM OF 250'.



NOT TO SCALE

FILE NAME = et\projects\74288d\shiplan_74288.dgn	USER NAME = mcclellania	DESIGNED - DRAWN - CHECKED - PLOT DATE = 10/26/2007	MMO	DATE - 12-99	REVISED - REVISED - REVISED - REVISED -	DRM 08-04	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL APPLICATION OF PAVEMENT MARKINGS SHEET 2 OF 2		F.A.P. RTE. 323	SECTION (58-62)TS	COUNTY MACON	TOTAL SHEETS 17	SHEET NO. 17
								SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO. 74288 FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT			