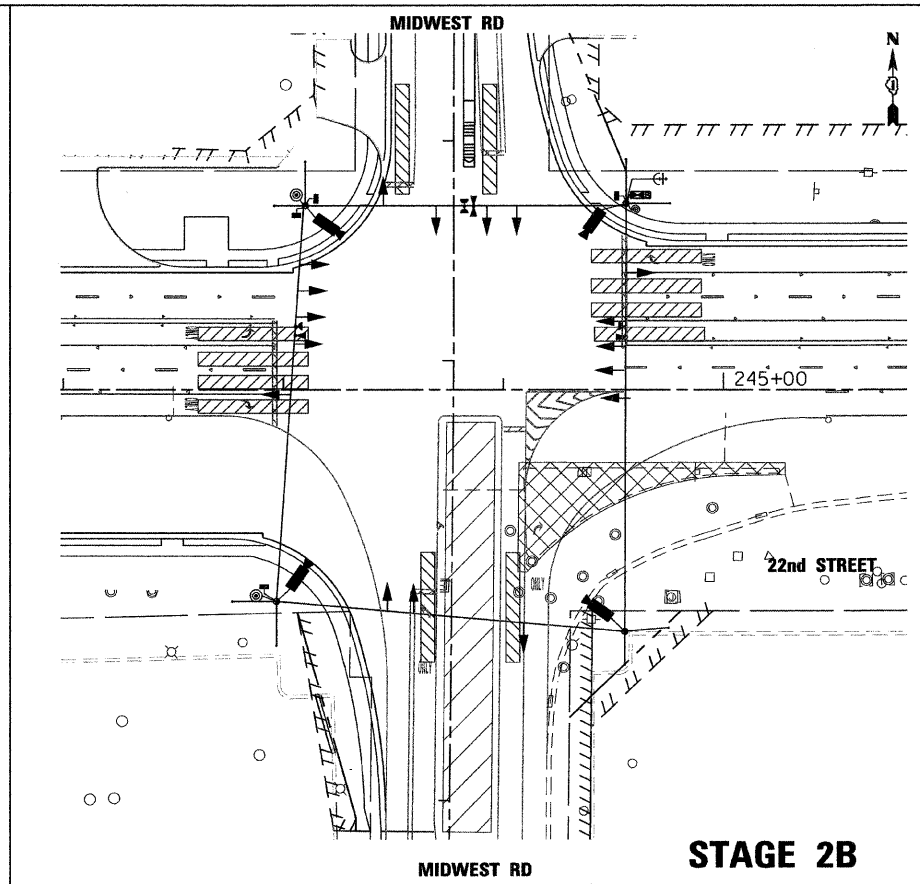
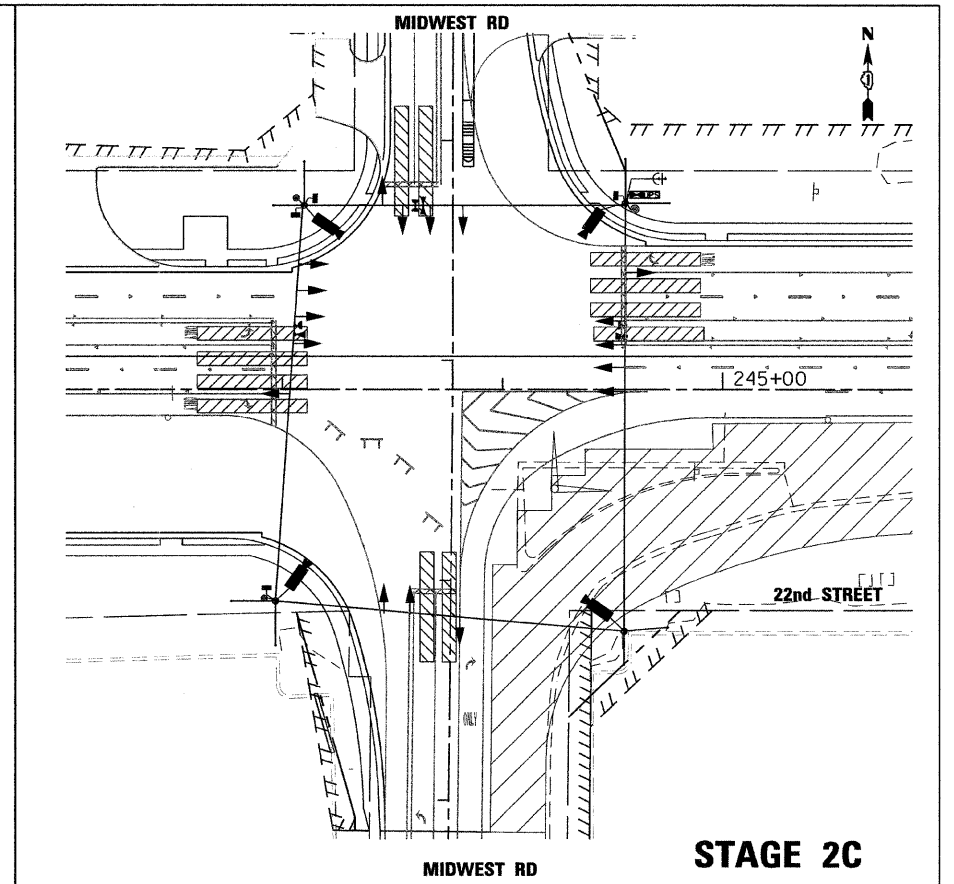


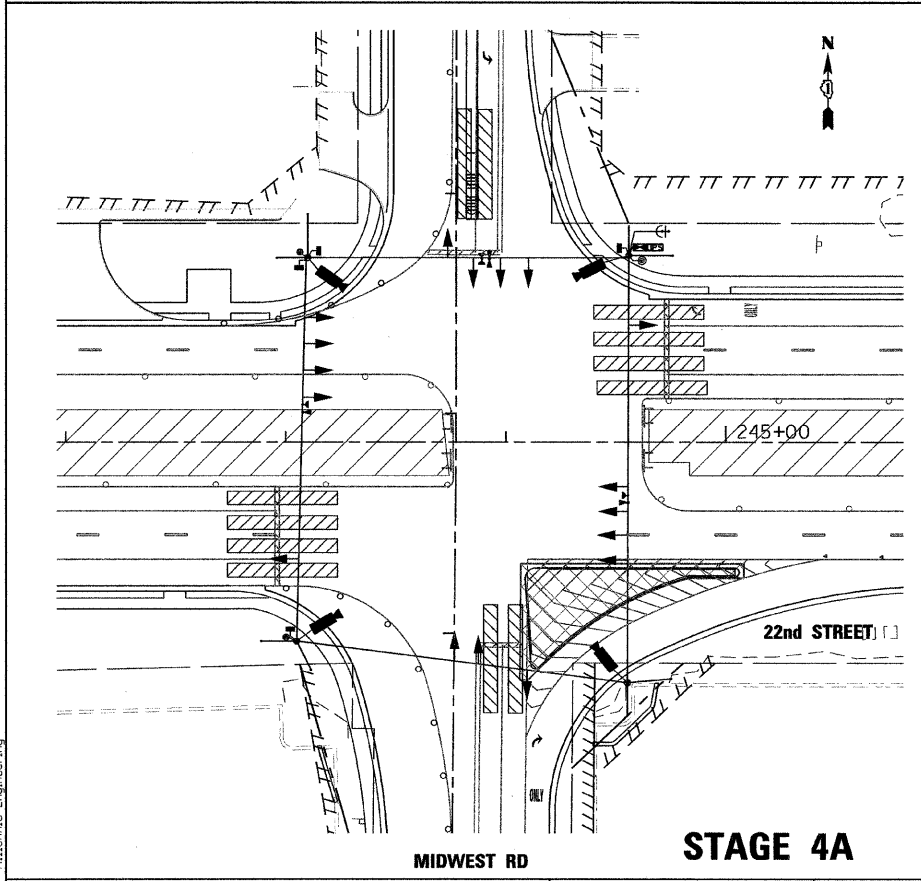
STAGE 2A



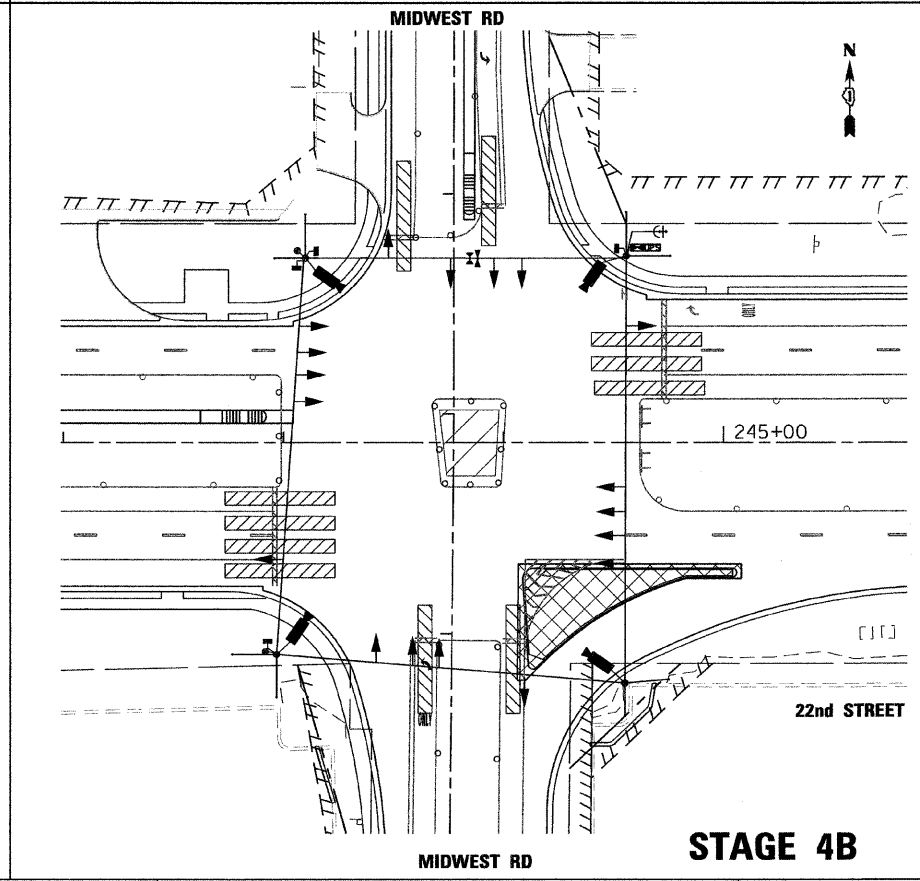
STAGE 2B



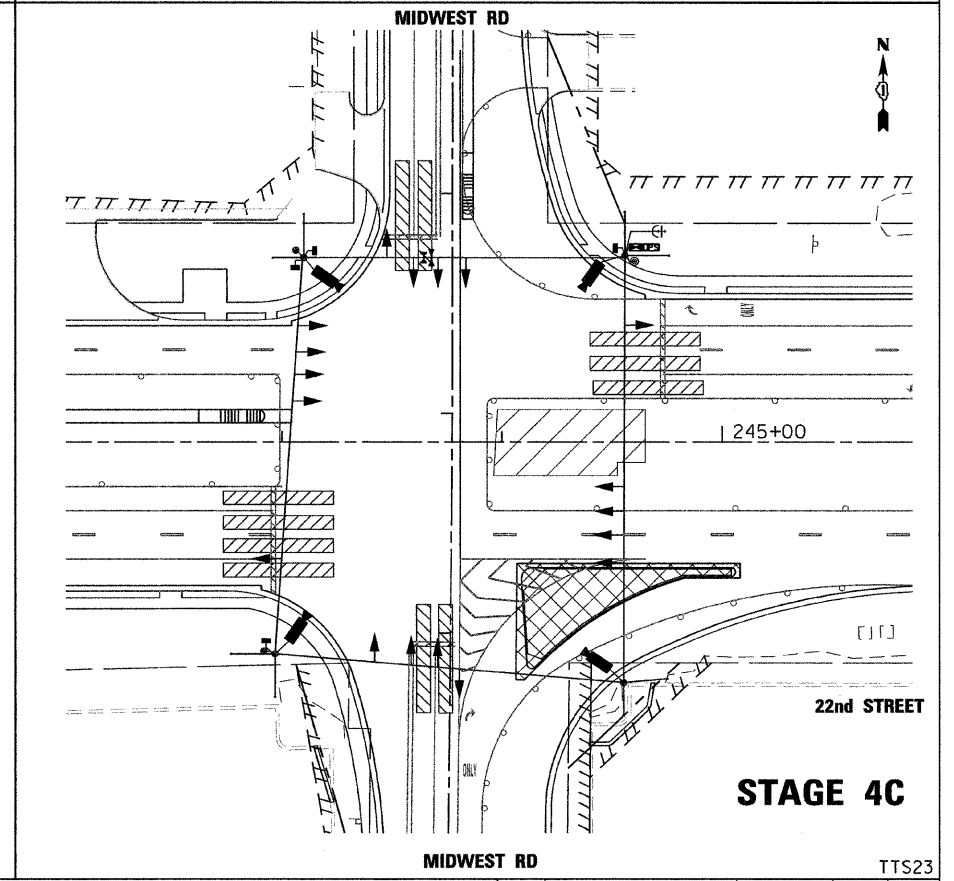
STAGE 2C



STAGE 4A



STAGE 4B



STAGE 4C

FILE NAME = P:\2007\ME07881-22nd.Street\Cadd\Shots\0160012-SHT-TTS02-Midwest-03.dgn
 PLOT SCALE = 48.0000 / IN.
 USER NAME = Millennia Engineering



200 22nd Street, Suite 216, Lombard, IL 60148
 630.785.0110 voice, 630.839.2566 fax
 www.milleniaeng.com
MILLENNIA ENGINEERING

DESIGNED - TVN	REVISED -
DRAWN - TVN	REVISED -
CHECKED - RPD	REVISED -
DATE - 10/05/2009	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

22nd STREET AT MIDWEST ROAD
TEMPORARY TRAFFIC SIGNAL M.O.T. STAGING PLAN

SCALE: SHEET NO.201 OF 362 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1453	55WRS	DUPAGE	362	201
CONTRACT NO. 60D12				

TTS23

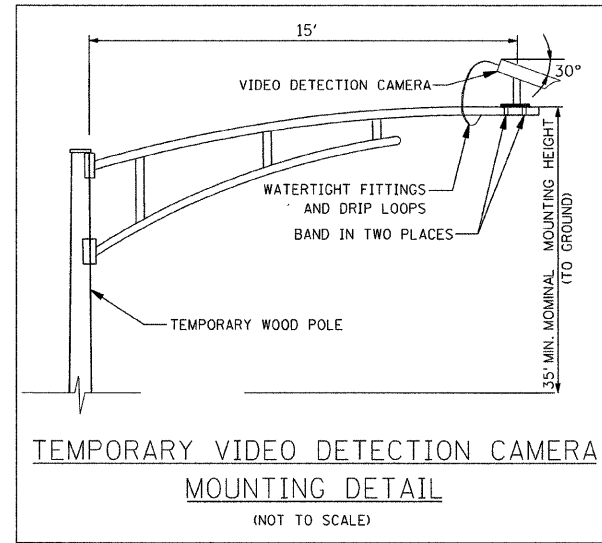
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT
 P:\2007\ME07881-22nd.Street\Cadd\Shots\0160012-SHT-TTS02-Midwest-03.dgn

TEMPORARY CABLE DIAGRAM LEGEND

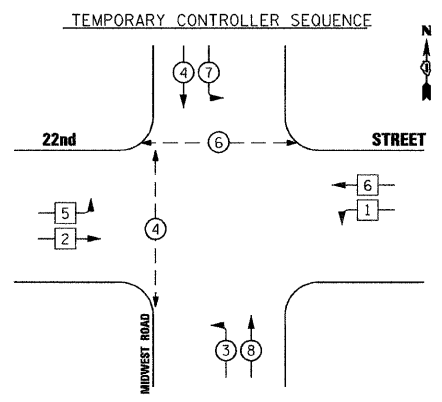
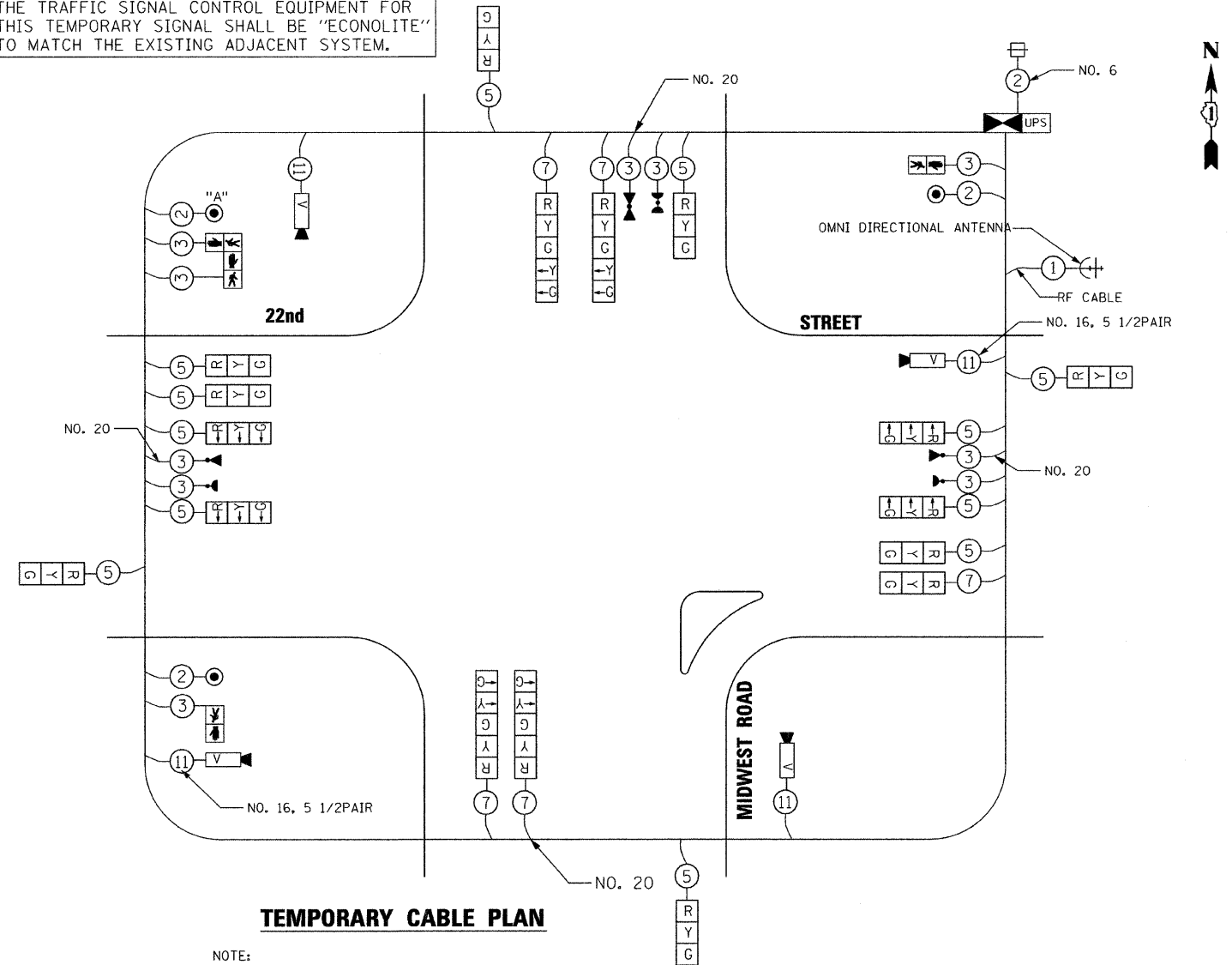
- R TEMPORARY TRAFFIC SIGNAL SECTION OR PEDESTRIAN SIGNAL SECTION 12" (300mm)
- C TEMPORARY CONTROLLER CABINET
- ② INDICATES NUMBER OF CONDUCTORS IN CABLE. ALL CONDUCTORS TO BE NUMBER 14 AWG WIRE UNLESS OTHERWISE NOTED.
- S TEMPORARY SERVICE INSTALLATION
- E EMERGENCY VEHICLE LIGHT DETECTOR
- C CONFIRMATION BEACON
- P PEDESTRIAN PUSHBUTTON DETECTOR
- V VEHICLE DETECTOR, INDUCTION LOOP
- V VIDEO VEHICLE DETECTION CAMERA
- C CLOSED CIRCUIT TV
- T TELEPHONE CONNECTION
- + TEMPORARY RADIO INTERCONNECT
- UPS UNINTERRUPTIBLE POWER SUPPLY

NOTES

1. ONLY AN APPROVED IDOT ELECTRICAL SUBCONTRACTOR WILL BE PERMITTED TO INSTALL AND ADJUST VIDEO VEHICLE DETECTION SYSTEM AS REQUIRED BY STAGE/PHASE CHANGES.
2. FOR TEMPORARY TRAFFIC SIGNAL CONTROLLER PLATFORM DETAIL, SEE SHEET NO. 227

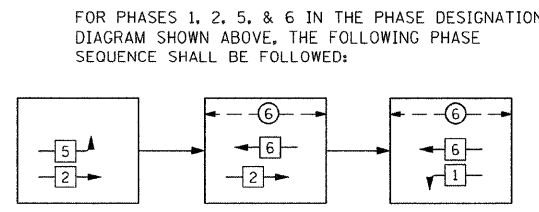


THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS TEMPORARY SIGNAL SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

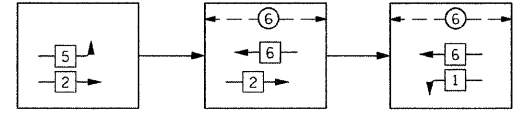


- LEGEND**
- S SINGLE ENTRY PHASE
 - D DUAL ENTRY PHASE
 - OL OVERLAP
 - P PEDESTRIAN PHASE
 - NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

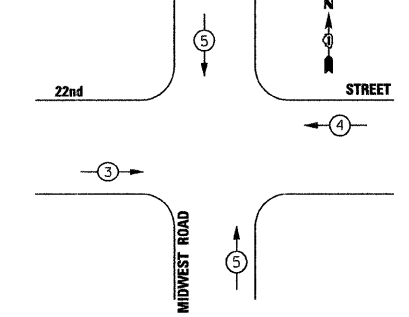


FOR PHASES 1, 2, 5, & 6 IN THE PHASE DESIGNATION DIAGRAM SHOWN ABOVE, THE FOLLOWING PHASE SEQUENCE SHALL BE FOLLOWED:



PHASES 3, 4, 7 & 8 SHALL FOLLOW THE STANDARD SEQUENCE IN ACCORDANCE WITH STATE STANDARD 857001

EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT	→	←	↑↓

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE INCAND.	L.E.D.	OPERATION	
SIGNAL (RED)	17	135	17	0.50	144.5
(YELLOW)	17	135	25	0.25	106.3
(GREEN)	17	135	15	0.25	63.8
ARROW	8	135	12	0.10	9.61
PED. SIGNAL	4	90	25	1.00	100
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		84		0.05	
TOTAL					584.1
VIDEO VEH. SENSOR					4
FLASHER					15
TOTAL					60
TOTAL					0.50
TOTAL					584.1

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAY/DISTRICT 1
201 CENTER CT/SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY - CONTACT: DEB RANKIN
PHONE: 630-691-4379
COMPANY: COMMONWEALTH EDISON

MILLENNIA ENGINEERING
200 22ND Street, Suite 216, Lombard, IL 60148
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www.millenniaeng.com

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DATE - 10/05/2009	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

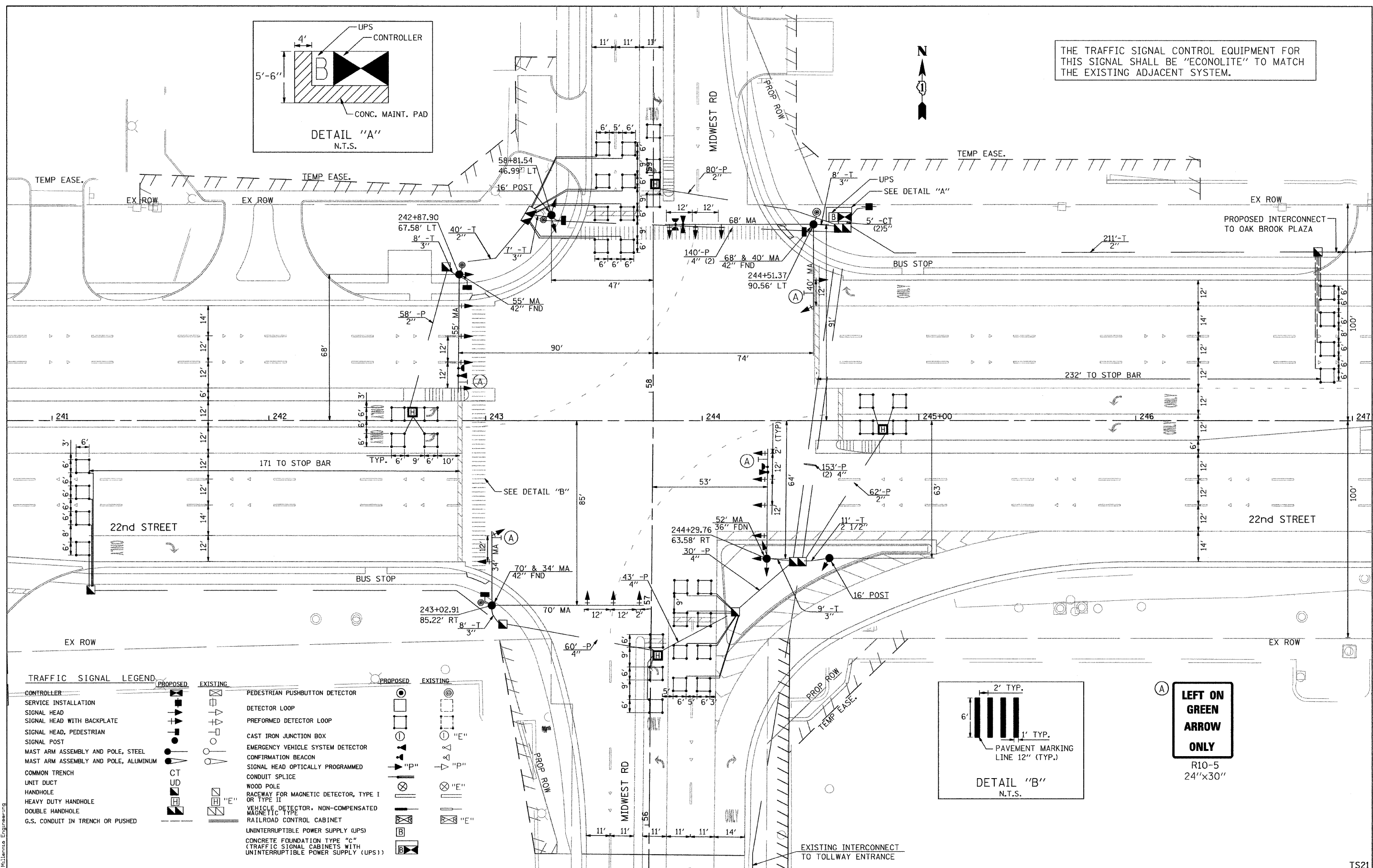
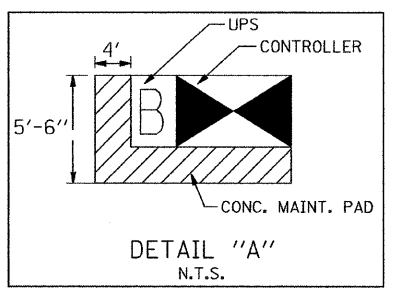
22nd STREET AT MIDWEST ROAD TEMPORARY TRAFFIC SIGNAL CABLE PLAN, AND PHASE DESIGNATION DIAGRAM

SCALE: SHEET NO. 202 OF 362 SHEETS STA. TO STA.

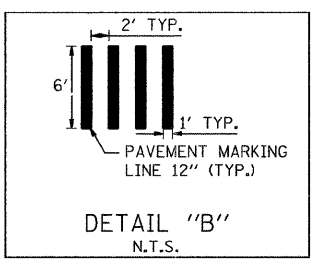
F.A.U. RTE. 1453	SECTION 55WRS	COUNTY	TOTAL SHEETS 362	SHEET NO. 202
CONTRACT NO. 60D12				

FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT
TTS24

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS SIGNAL SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.



TRAFFIC SIGNAL LEGEND		PROPOSED	EXISTING	PROPOSED	EXISTING
CONTROLLER				PEDESTRIAN PUSHBUTTON DETECTOR	
SERVICE INSTALLATION				DETECTOR LOOP	
SIGNAL HEAD				PREFORMED DETECTOR LOOP	
SIGNAL HEAD WITH BACKPLATE				CAST IRON JUNCTION BOX	
SIGNAL HEAD, PEDESTRIAN				EMERGENCY VEHICLE SYSTEM DETECTOR	
SIGNAL POST				CONFIRMATION BEACON	
MAST ARM ASSEMBLY AND POLE, STEEL				SIGNAL HEAD OPTICALLY PROGRAMMED	
MAST ARM ASSEMBLY AND POLE, ALUMINUM				CONDUIT SPLICE	
COMMON TRENCH				WOOD POLE	
UNIT DUCT				RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II	
HANDHOLE				VEHICLE DETECTOR, NON-COMPENSATED MAGNETIC TYPE	
HEAVY DUTY HANDHOLE				RAILROAD CONTROL CABINET	
DOUBLE HANDHOLE				UNINTERRUPTIBLE POWER SUPPLY (UPS)	
G.S. CONDUIT IN TRENCH OR PUSHED				CONCRETE FOUNDATION TYPE 'C'	
				(TRAFFIC SIGNAL CABINETS WITH UNINTERRUPTIBLE POWER SUPPLY (UPS))	



LEFT ON GREEN ARROW ONLY
R10-5
24"x30"

FILE NAME: P:\2007\ME07081-22nd-Street\Cadd\Supp3\0168012-SHT-TS02-Midwest-01.dgn
 USER: JIN
 PLOT DATE: 04/01/2010 10:56:00 AM
 PLOT BY: KJL

200 22ND Street, Suite 216, Lombard, IL 60148
 630.745.8110 voice, 630.839.2566 fax
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DATE - 04/01/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

22nd STREET AT MIDWEST ROAD TRAFFIC SIGNAL INSTALLATION PLAN	
SCALE: 1"=20'	TO STA.
SHEET NO. 203 OF 362 SHEETS	STA.

F.A.U. RTE. 1453	SECTION 55WRS	COUNTY DUPAGE	TOTAL SHEETS 362	SHEET NO. 203
CONTRACT NO. 60D12				

FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT
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SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SO FT	49
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	504
CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	40
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	10
CONDUIT IN TRENCH, 5" DIA., GALVANIZED STEEL	FOOT	10
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	200
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	575
HANDHOLE	EACH	5
HEAVY-DUTY HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	3
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	564
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	632
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1672
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	4299
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1865
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	9940
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	48
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 52 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 55 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 70 FT. AND 40 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 70 FT. AND 34 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	8
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	15
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	45
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	14
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4
SIGNAL HEAD, LED, 3-FACE, 1-4 SECTION, 2-5 SECTION, BRACKET MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED	EACH	4
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	18
INDUCTIVE LOOP DETECTOR	EACH	12
LIGHT DETECTOR	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	4
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	11
REMOVE EXISTING CONCRETE FOUNDATION	EACH	7
PREFORMED DETECTOR LOOP	FOOT	1096
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	693
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	799
UNINTERRUPTIBLE POWER SUPPLY	EACH	1
TEMPORARY TRAFFIC SIGNAL INTERCONNECT	EACH	1

100% VILLAGE OF OAK BROOK COST

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE INCAND.	WATTAGE L.E.D.	OPERATION	
SIGNAL (RED)	25	135	17	0.50	212.5
(YELLOW)	26	135	25	0.25	162.5
(GREEN)	27	135	15	0.25	101.3
ARROW	18	135	12	0.10	21.6
PED. SIGNAL	4	90	25	1.00	100
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		84		0.05	
HOT RIGHT	2	135	12	1.00	24
VIDEO VEH. SENSOR	0	15	15	1.00	
FLASHER				0.50	
TOTAL					721.9

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAY/DISTRICT 1
201 CENTER CT/SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY - CONTACT: DEB RANKIN
PHONE: 630-691-4379
COMPANY: COMMONWEALTH EDISON

FOUNDATION (DEPTH)	(FEET) (m)	CABLE SLACK	(FEET) (m)	VERTICAL	(FEET) (m)
TYPE A - POST	4 , (1.2)	HANDHOLE	6.5 , (2.0)	ALL FOUNDATION	1.0 , (2.0)
D - CONTROLLER	4 , (1.2)	DOUBLE HANDHOLE	13 , (4.0)	MAST ARM (1.) POLE	20'+L-2 = (6m+L-0.6m)=
E - M. ARM POLE	()	SIGNAL POST	2 , (1.0)	BRACKET MOUNTED	13 , (4.0)
24" (600mm)	10 , (3.0)	CONTROLLER CAB.	1 , (0.5)	PED. PUSHBOTTON	4 , (1.2)
30" (600mm)	15 , (4.5)	FIBER OPTIC	13 , (4.0)	ELECTRIC SERVICE	13.5 , (4.1)
36"	15 , (4.5)	ELECTRIC SERVICE	1 , (0.5)	SERVICE TO GROUND	13 , (4.1)
42"	15 , (4.5)	GROUND CABLE	1 , (0.5)	POST MOUNTED	6 , (1.8)

DESIGNED - TVN	REVISED -
DRAWN - TVN	REVISED -
CHECKED - RPD	REVISED -
DATE - 7/24/2009	REVISED -

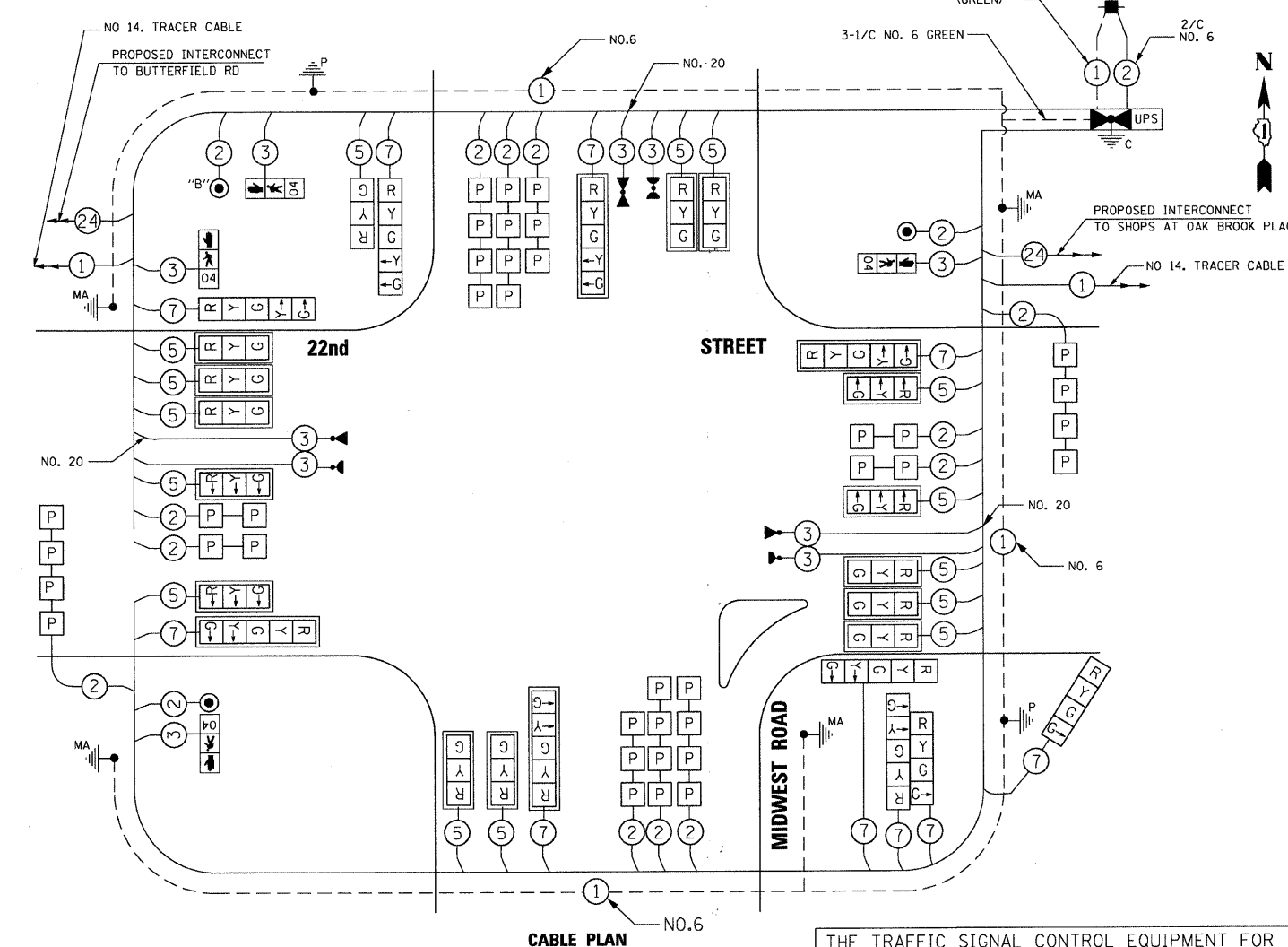
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

22nd STREET AT MIDWEST ROAD
CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND SCHEDULE OF QUANTITIES

F.A.U. RTE. 1453	SECTION 55WRS	COUNTY DUPAGE	TOTAL SHEETS 362	SHEET NO. 204
CONTRACT NO. 60D12				



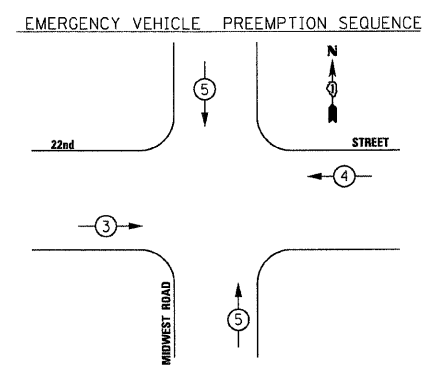
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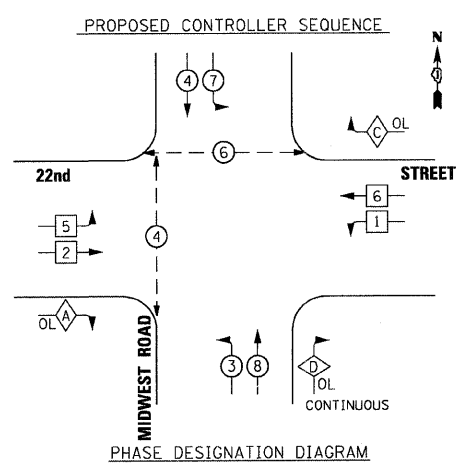
PUSH BUTTON NOTE:
PUSH BUTTON "B" SHALL PLACE A CALL IN PHASE 4 AND 6

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS SIGNAL SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

NOTE: ALL LOOP DETECTION SHOWN ON THIS PLAN WILL BE "PREFORMED" DETECTION LOOPS.



PROPOSED EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT	→	←	↑↓



CABLE PLAN LEGEND

EXISTING	PROPOSED	DESCRIPTION
⊗	⊗	8" (200mm) TRAFFIC SIGNAL SECTION
⊗	⊗	12" (300mm) TRAFFIC SIGNAL SECTION
⊗	⊗	12" (300mm) PEDESTRIAN SIGNAL SECTION
⊗	⊗	12" (300mm) PEDESTRIAN SIGNAL SECTION WITH COUNTDOWN TIMER
⊗	⊗	CONTROLLER CABINET
⊗	⊗	SERVICE INSTALLATION
⊗	⊗	VEHICLE DETECTOR, INDUCTION LOOP
⊗	⊗	MAGNETIC DETECTOR
⊗	⊗	EMERGENCY VEHICLE LIGHT DETECTOR
⊗	⊗	CONFIRMATION BEACON
⊗	⊗	PUSHBUTTON DETECTOR
⊗	⊗	DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
⊗	⊗	SIGNAL FACE WITH BACKPLATE "P" INDICATES PROGRAMMED HEAD.
⊗	⊗	RAILROAD CONTROL CABINET
⊗	⊗	ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
⊗	⊗	ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
H/C	H/C	GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
P	P	GROUND ROD AT POST OR MAST ARM POLE
S	S	GROUND ROD AT ELECTRIC SERVICE INSTALLATION
1	1	GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
24	24	FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F & SM12F
UPS	UPS	UNINTERRUPTIBLE POWER SUPPLY (UPS)
P	P	PREFORMED LOOP DETECTION

LEGEND

→	SINGLE ENTRY PHASE
↔	DUAL ENTRY PHASE
↔ OL	OVERLAP
↔	PEDESTRIAN PHASE
*	NUMBER REFERS TO ASSOCIATED PHASE

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	2	3
C	6	7
D	NONE	ALL PHASE

FILE NAME: p:\2007\m07081_22nd-street\cadd\shs\016012-SHT-TS02-Midwest-02.dgn
 USER: NAME: Millennium Engineering

TS22

FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT
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TEMPORARY TRAFFIC SIGNAL LEGEND

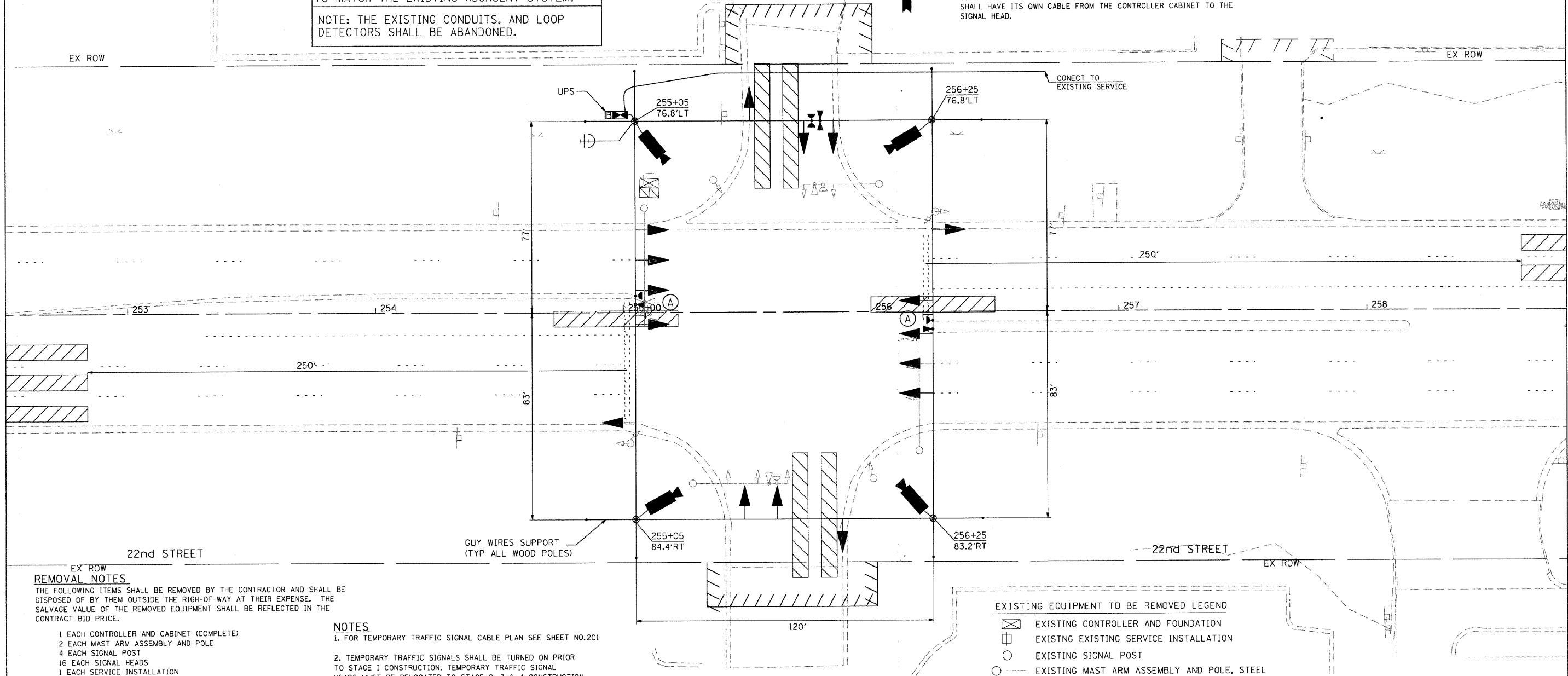
- ← TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED ORIGINAL LOCATION
- ⊗ TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM
- ⊠ TEMPORARY CONTROLLER CABINET
- TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE
- ⊞ TEMPORARY SERVICE INSTALLATION
- ⊞ TEMPORARY PEDESTRIAN SIGNAL HEAD, BRACKET MOUNTED
- ⊞ PEDESTRIAN PUSHBUTTON DETECTOR
- ⊞ EMERGENCY VEHICLE LIGHT DETECTOR
- ⊞ CONFIRMATION BEACON
- VEHICLE DETECTOR, INDUCTION LOOP
- CT COMMON TRENCH
- UD UNIT DUCT
- G.S. CONDUIT IN TRENCH OR PUSHED
- H HEAVY DUTY HANDHOLE
- ⊞ VIDEO VEHICLE DETECTOR CAMERA
- ▨ TEMPORARY VIDEO DETECTION ZONE (50' TYPICAL)
- ⊞ TEMPORARY RADIO INTERCONNECT
- ⊞ UNINTERRUPTIBLE POWER SUPPLY

**LEFT ON GREEN
ARROW
ONLY**
 R10-5
24"x30"

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS TEMPORARY SIGNAL SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.
 NOTE: THE EXISTING CONDUITS, AND LOOP DETECTORS SHALL BE ABANDONED.

NOTES FOR TEMPORARY TRAFFIC SIGNALS

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR MICROPROCESSOR BASE WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1 INSTALLED IN A NEMA TS1 OR TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE 12". HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS, EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC STAGING ARE IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
7. 24" WHITE STOP BAR MUST BE IN PLACE AT THE TIME OF SIGNAL TURN ON.
8. RIGHT-TURN OVERLAP ARROW SECTIONS SHALL BE BAGGED UNTIL RIGHT TURN LANES ARE OPEN TO TRAFFIC



REMOVAL NOTES

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

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 2 EACH MAST ARM ASSEMBLY AND POLE
- 4 EACH SIGNAL POST
- 16 EACH SIGNAL HEADS
- 1 EACH SERVICE INSTALLATION

NOTES

1. FOR TEMPORARY TRAFFIC SIGNAL CABLE PLAN SEE SHEET NO.201
2. TEMPORARY TRAFFIC SIGNALS SHALL BE TURNED ON PRIOR TO STAGE 1 CONSTRUCTION. TEMPORARY TRAFFIC SIGNAL HEADS MUST BE RELOCATED TO STAGE 2, 3 & 4 CONSTRUCTION LOCATION PRIOR TO THE START OF STAGE 2, 3 & 4 CONSTRUCTION AS SHOWN ON THE PLANS.
3. ONLY AN APPROVED IDOT ELECTRICAL SUBCONTRACTOR WILL BE PERMITTED TO INSTALL AND ADJUST VIDEO VEHICLE DETECTION SYSTEM AS REQUIRED BY STAGE/PHASE CHANGES.
4. FOR TEMPORARY TRAFFIC SIGNAL CONTROLLER PLATFORM DETAIL TEMPORARY VIDEO DETECTION CAMERA MOUNTING DETAIL SEE SHEET NO. 227

EXISTING EQUIPMENT TO BE REMOVED LEGEND

- ⊞ EXISTING CONTROLLER AND FOUNDATION
- ⊞ EXISTING EXISTING SERVICE INSTALLATION
- ⊞ EXISTING SIGNAL POST
- ⊞ EXISTING MAST ARM ASSEMBLY AND POLE, STEEL
- ⊞ EXISTING MAST ARM ASSEMBLY AND POLE, ALUMINUM
- ⊞ EXISTING HANDHOLE
- ⊞ EXISTING HEAVY DUTY HANDHOLE

FILE NAME : p:\2007\me07081-22nd-street\roads\shops\TTS03-0akbrook-01.dgn
 USER NAME : Millennium Engineering



200 22ND Street, Suite 216, Lombard, IL 60148
 630.785.0110 voice, 630.839.2566 fax
 www.millenniaeng.com
MILLENNIA ENGINEERING

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DRAWN - TVN	REVISED -
CHECKED - RPD	REVISED -
DATE - 7/24/2009	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

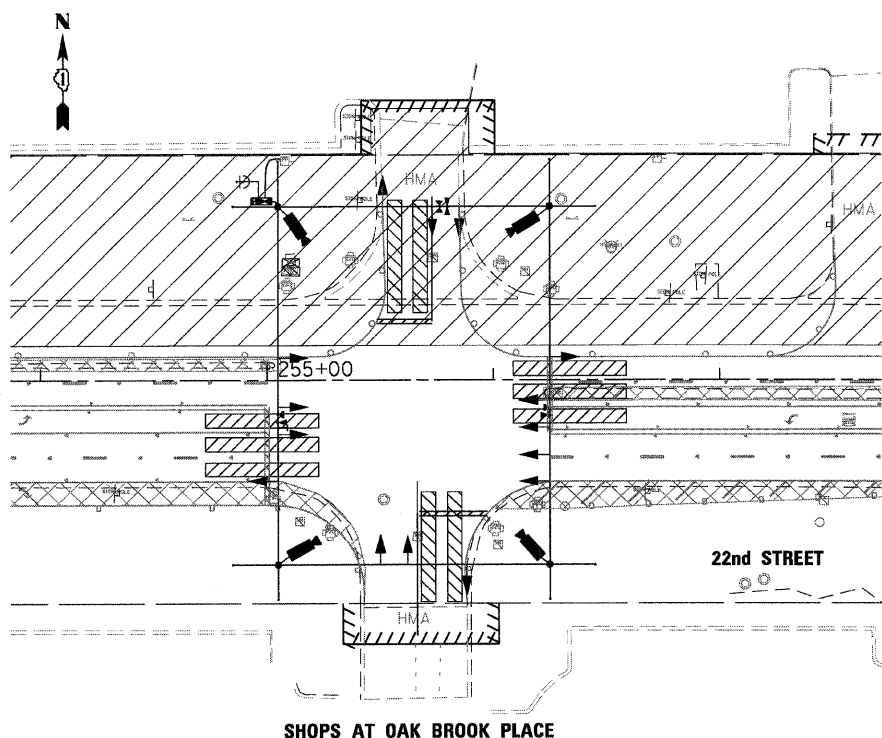
**22nd STREET AT SHOPS AT OAK BROOK PLACE
TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN**

SCALE: 1"=20' SHEET NO. 205 OF 362 SHEETS STA. TO STA.

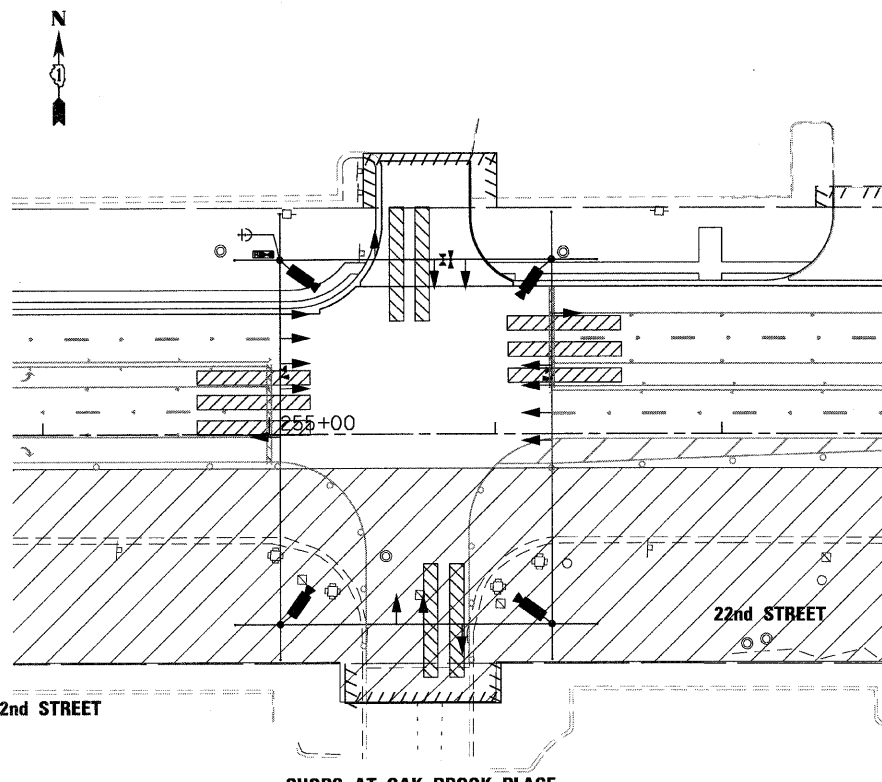
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1453	55WRS	DUPAGE	362	205
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60D12	

TTS31

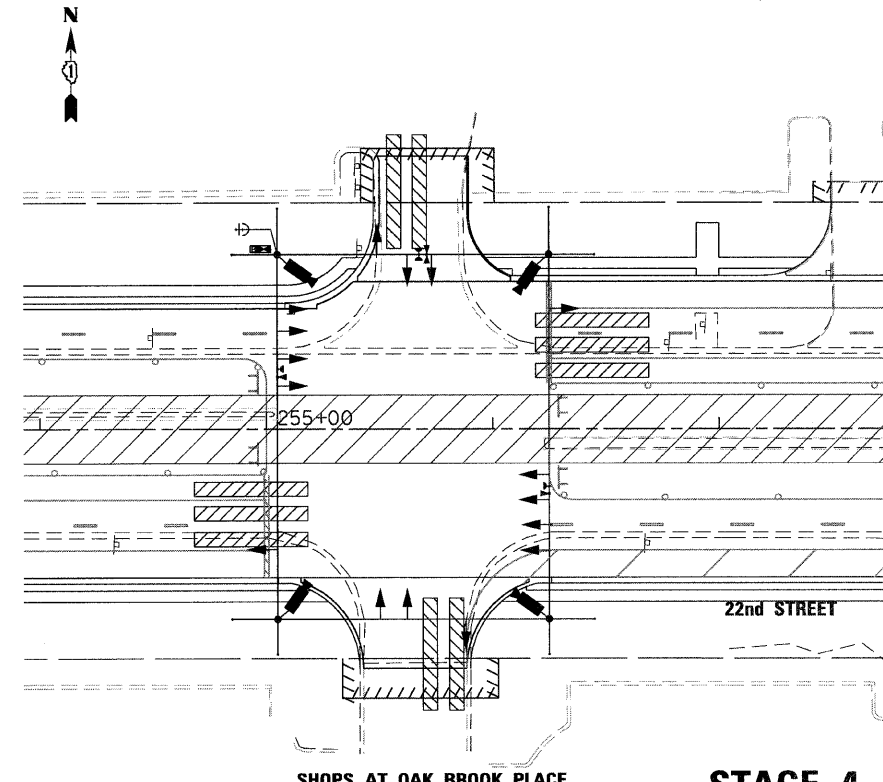
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STAGE 1



STAGE 2



STAGE 4

FILE NAME : p:\2007\me87081.22nd.street\add\shops\1160012-SHT-TTS03-Oakbrook-02.dgn
 PLOT SCALE : 1/8"=1'-0"
 USER NAME : Millennium Engineering



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DATE - 7/24/2009	REVISED -

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**22nd STREET AT SHOPS AT OAK BROOK PLACE
TEMPORARY TRAFFIC SIGNAL M.O.T. STAGING PLAN**

SCALE: SHEET NO. 206 OF 362 SHEETS STA. TO STA.

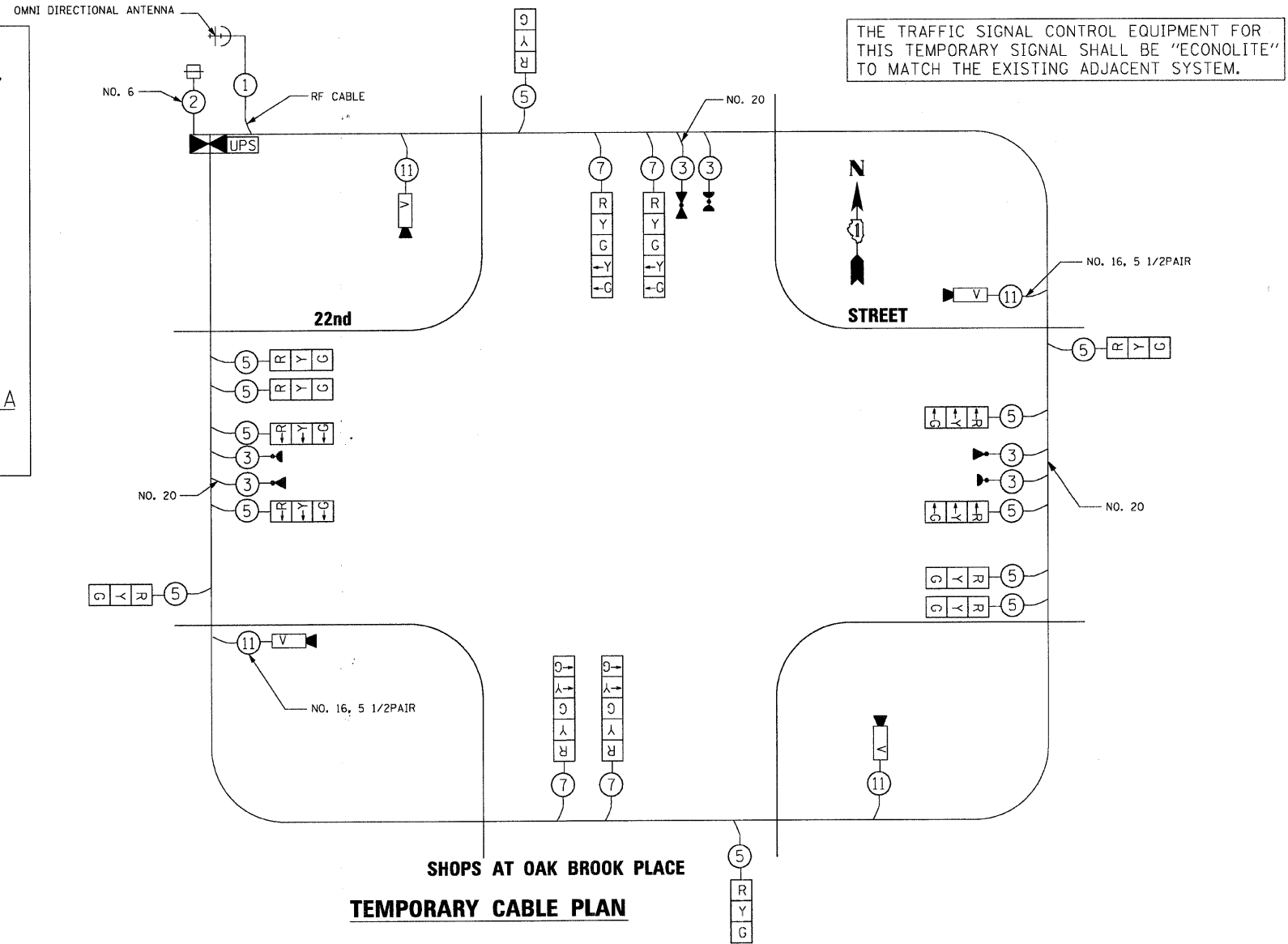
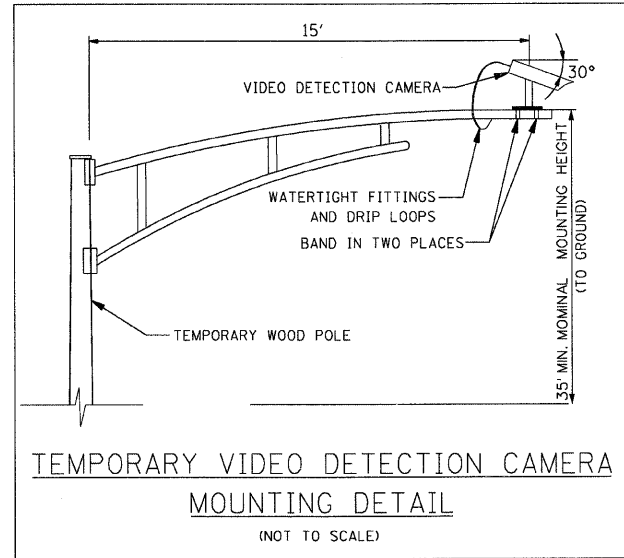
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1453	55WRS	DUPAGE	362	206
CONTRACT NO. 60D12				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

TEMPORARY CABLE DIAGRAM LEGEND

- R TEMPORARY TRAFFIC SIGNAL SECTION OR PEDESTRIAN SIGNAL SECTION 12" (300mm)
- E TEMPORARY CONTROLLER CABINET
- 2 INDICATES NUMBER OF CONDUCTORS IN CABLE. ALL CONDUCTORS TO BE NUMBER 14 AWG WIRE UNLESS OTHERWISE NOTED.
- S TEMPORARY SERVICE INSTALLATION
- V EMERGENCY VEHICLE LIGHT DETECTOR
- C CONFIRMATION BEACON
- P PEDESTRIAN PUSHBUTTON DETECTOR
- V VEHICLE DETECTOR, INDUCTION LOOP
- V VIDEO VEHICLE DETECTION CAMERA
- C CLOSED CIRCUIT TV
- T TELEPHONE CONNECTION
- + TEMPORARY RADIO INTERCONNECT
- UPS UNINTERRUPTIBLE POWER SUPPLY

NOTES

1. ONLY AN APPROVED IDOT ELECTRICAL SUBCONTRACTOR WILL BE PERMITTED TO INSTALL AND ADJUST VIDEO VEHICLE DETECTION SYSTEM AS REQUIRED BY STAGE/PHASE CHANGES.
2. FOR TEMPORARY TRAFFIC SIGNAL CONTROLLER PLATFORM DETAIL. SEE SHEET NO. 227.



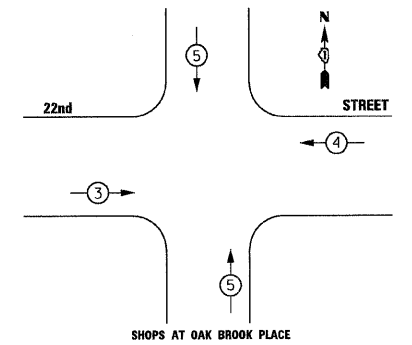
I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE INCAND.	L.E.D.	OPERATION	
SIGNAL (RED)	16	135	17	0.50	136
(YELLOW)	16	135	25	0.25	100
(GREEN)	16	135	15	0.25	60
ARROW	16	135	12	0.10	9.6
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		84		0.05	
VIDEO VEH. SENSOR	4	15	15	1.00	60
FLASHER				0.50	
TOTAL					465.6

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAY/DISTRICT 1
201 CENTER CT/SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY - CONTACT: DEB RANKIN
PHONE: 630-691-4379
COMPANY: COMMONWEALTH EDISON

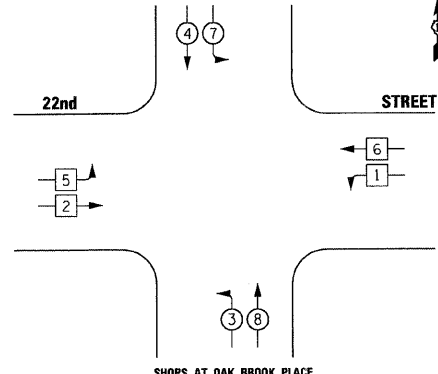
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EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	→	←

TEMPORARY CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

LEGEND

- S SINGLE ENTRY PHASE
- D DUAL ENTRY PHASE
- OL OVERLAP
- P PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**22nd STREET AT SHOPS AT OAK BROOK PLACE
TEMPORARY TRAFFIC SIGNAL CABLE PLAN, AND
PHASE DESIGNATION DIAGRAM**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1453	55WRS	DUPAGE	362	207

SCALE: N/A SHEET NO. OF 362 SHEETS STA. TO STA. FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT CONTRACT NO. 60D12

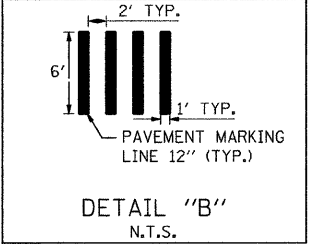
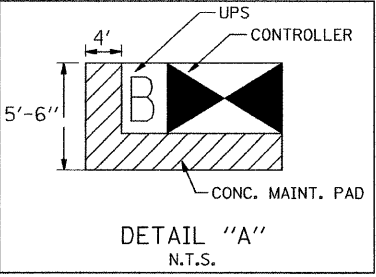
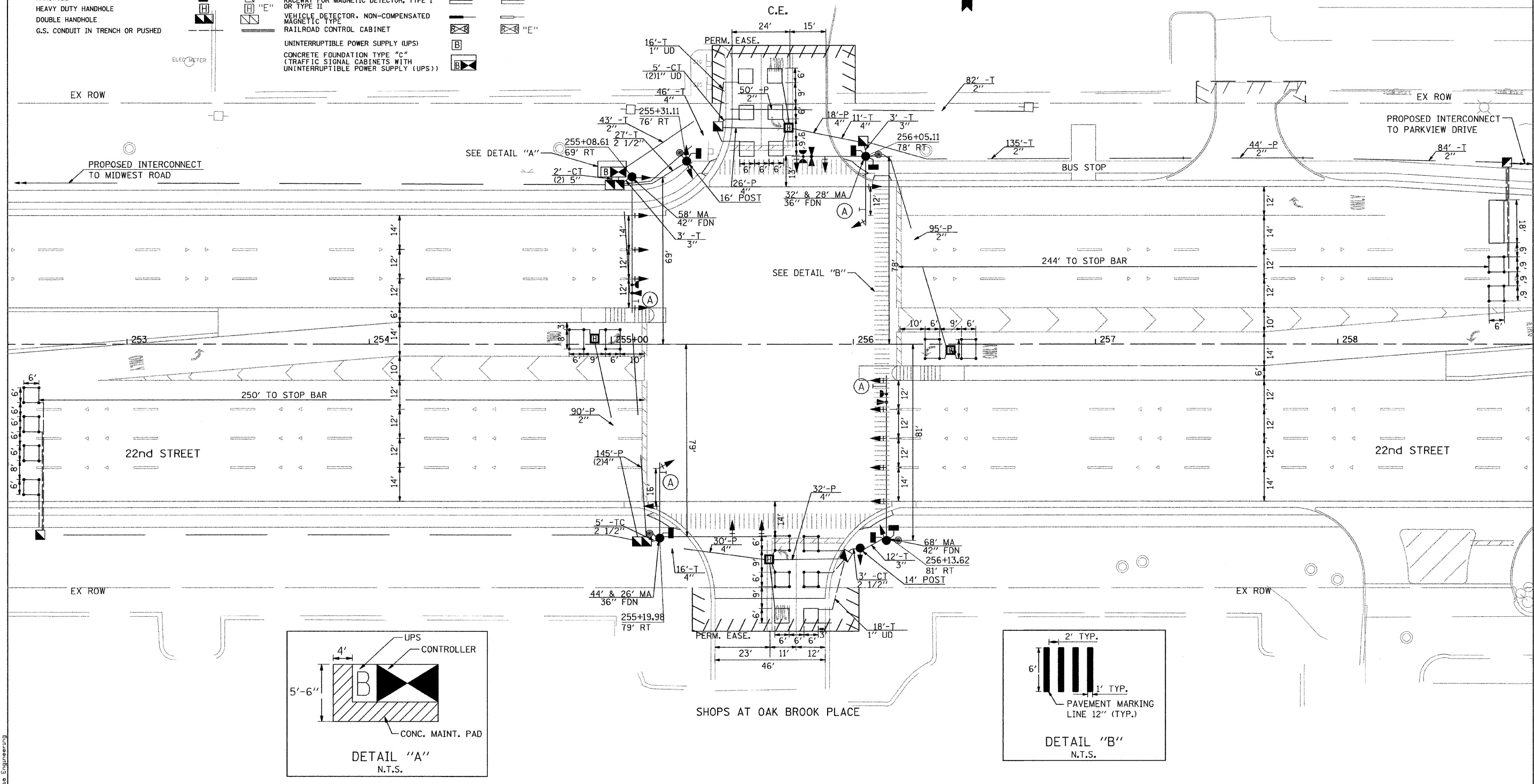
TTS33

TRAFFIC SIGNAL LEGEND

PROPOSED	EXISTING	PROPOSED	EXISTING
CONTROLLER		PEDESTRIAN PUSHBUTTON DETECTOR	
SERVICE INSTALLATION		DETECTOR LOOP	
SIGNAL HEAD		PREFORMED DETECTOR LOOP	
SIGNAL HEAD WITH BACKPLATE		CAST IRON JUNCTION BOX	
SIGNAL HEAD, PEDESTRIAN		EMERGENCY VEHICLE SYSTEM DETECTOR	
SIGNAL POST		CONFIRMATION BEACON	
MAST ARM ASSEMBLY AND POLE, STEEL		SIGNAL HEAD OPTICALLY PROGRAMMED	
MAST ARM ASSEMBLY AND POLE, ALUMINUM		CONDUIT SPLICE	
COMMON TRENCH		WOOD POLE	
UNIT DUCT		RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II	
HANDHOLE		VEHICLE DETECTOR, NON-COMPENSATED MAGNETIC TYPE	
HEAVY DUTY HANDHOLE		RAILROAD CONTROL CABINET	
DOUBLE HANDHOLE		UNINTERRUPTIBLE POWER SUPPLY (UPS)	
G.S. CONDUIT IN TRENCH OR PUSHED		CONCRETE FOUNDATION TYPE "C" (TRAFFIC SIGNAL CABINETS WITH UNINTERRUPTIBLE POWER SUPPLY (UPS))	

LEFT ON GREEN ARROW ONLY
R10-5
24"x30"

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS SIGNAL SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.



FILE NAME = PA:2007\ME07081_22nd_Street\Cadd\Supp3\0168012-SHT-TS03-Oakbrook-01.dgn
 USER NAME = JN
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

22nd STREET AT SHOPS AT OAK BROOK PLACE
TRAFFIC SIGNAL INSTALLATION PLAN
 SCALE: 1"=20'
 SHEET NO. 208 OF 362 SHEETS STA. TO STA.

F.A.U. RTE. 1453	SECTION 55WRS	COUNTY DUPAGE	TOTAL SHEETS 362	SHEET NO. 208
CONTRACT NO. 60D12				

TS31

FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT
 PA:2007\ME07081_22nd_Street\Cadd\Supp3\0168012-SHT-TS03-Oakbrook-01.dgn

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	637
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	35
CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	18
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	73
CONDUIT IN TRENCH, 5" DIA., GALVANIZED STEEL	FOOT	10
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	229
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	396
HANDHOLE	EACH	3
HEAVY-DUTY HANDHOLE	EACH	5
DOUBLE HANDHOLE	EACH	2
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	773
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL TRANSCIEVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 2C	FOOT	695
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C	FOOT	2025
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	3523
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7C	FOOT	1025
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	6474
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	188
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 58 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 68 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 26 FT AND 44 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 28 FT. AND 32 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	8
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	30
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	30
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	14
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	3
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	17
INDUCTIVE LOOP DETECTOR	EACH	8
• DETECTOR LOOP, TYPE 1	FOOT	192
• LIGHT DETECTOR	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	4
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	8
REMOVE EXISTING CONCRETE FOUNDATION	EACH	8
PREFORMED DETECTOR LOOP	FOOT	510
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	688
• ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	873
UNINTERRUPTIBLE POWER SUPPLY	EACH	1
TEMPORARY TRAFFIC SIGNAL INTERCONNECT	EACH	1

• 100% VILLAGE OF OAK BROOK COST

TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE INCAND.	L.E.D.	OPERATION	
SIGNAL (RED)	19	135	17	0.50	178.5
(YELLOW)	19	135	25	0.25	131.3
(GREEN)	19	135	15	0.25	78.8
ARROW	12	135	12	0.10	14.4
PED. SIGNAL	4	90	25	1.00	150
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		84		0.05	
VIDEO VEH. SENSOR					
FLASHER					
TOTAL					652.9

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAY/DISTRICT 1
 201 CENTER CT/SCHAUMBURG, IL 60196-1096
 ENERGY SUPPLY - CONTACT: DEB RANKIN
 PHONE: 630-691-4379
 COMPANY: COMMONWEALTH EDISON

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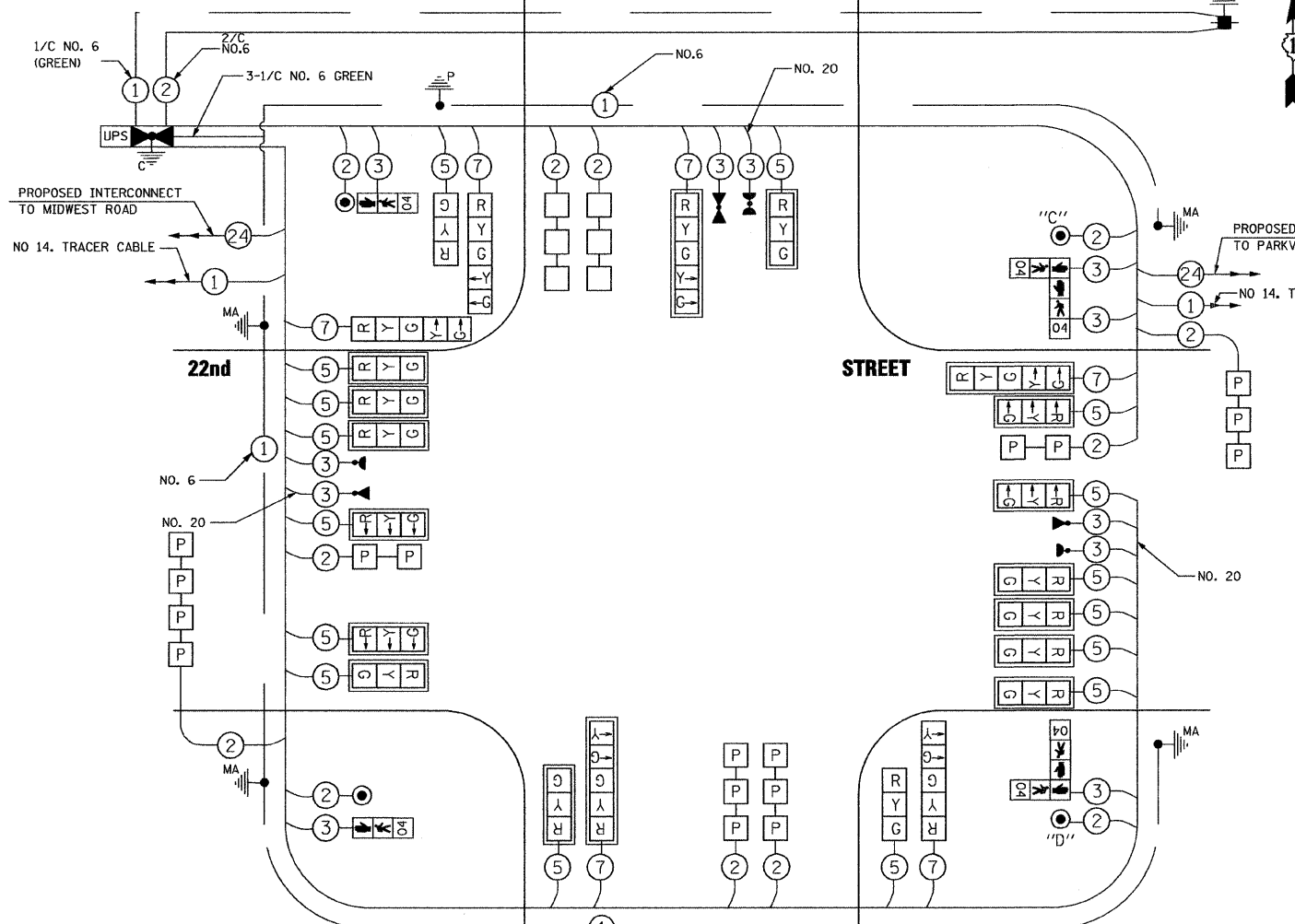
DESIGNED - TVN	REVISED -
DRAWN - TVN	REVISED -
CHECKED - RPD	REVISED -
DATE - 04/01/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

22nd STREET AT SHOPS AT OAK BROOK PLACE
CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND SCHEDULE OF QUANTITIES

F.A.J. RTE. 1453	SECTION 55WRS	COUNTY DUPAGE	TOTAL SHEETS 362	SHEET NO. 209
SCALE: N/A			SHEET NO. 209 OF 362 SHEETS STA.	TO STA.
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60D12	

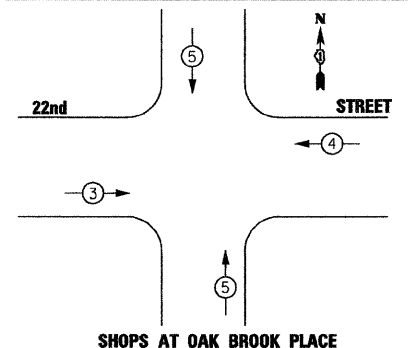
COMMERCIAL ENTRANCE



CABLE PLAN LEGEND

EXISTING	PROPOSED	DESCRIPTION
[Symbol]	[Symbol]	8" (200mm) TRAFFIC SIGNAL SECTION
[Symbol]	[Symbol]	12" (300mm) TRAFFIC SIGNAL SECTION
[Symbol]	[Symbol]	12" (300mm) PEDESTRIAN SIGNAL SECTION
[Symbol]	[Symbol]	12" (300mm) PEDESTRIAN SIGNAL SECTION WITH COUNTDOWN TIMER
[Symbol]	[Symbol]	CONTROLLER CABINET
[Symbol]	[Symbol]	SERVICE INSTALLATION
[Symbol]	[Symbol]	VEHICLE DETECTOR, INDUCTION LOOP
[Symbol]	[Symbol]	MAGNETIC DETECTOR
[Symbol]	[Symbol]	EMERGENCY VEHICLE LIGHT DETECTOR
[Symbol]	[Symbol]	CONFIRMATION BEACON
[Symbol]	[Symbol]	PUSHBUTTON DETECTOR
[Symbol]	[Symbol]	DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
[Symbol]	[Symbol]	SIGNAL FACE WITH BACKPLATE "P" INDICATES PROGRAMMED HEAD.
[Symbol]	[Symbol]	RAILROAD CONTROL CABINET
[Symbol]	[Symbol]	ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
[Symbol]	[Symbol]	ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
[Symbol]	[Symbol]	GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
[Symbol]	[Symbol]	GROUND ROD AT POST OR MAST ARM POLE
[Symbol]	[Symbol]	GROUND ROD AT ELECTRIC SERVICE INSTALLATION
[Symbol]	[Symbol]	GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
[Symbol]	[Symbol]	FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F & SM12F
[Symbol]	[Symbol]	UNINTERRUPTIBLE POWER SUPPLY (UPS)
[Symbol]	[Symbol]	PREFORMED LOOP DETECTION

EMERGENCY VEHICLE PREEMPTION SEQUENCE

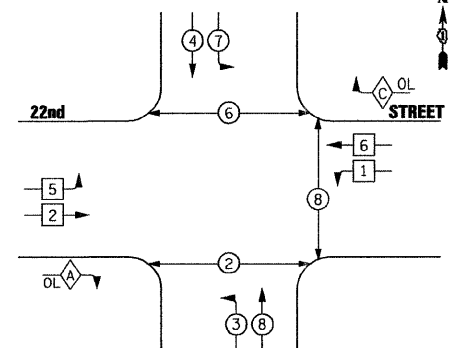


PROPOSED EMERGENCY VEHICLE PREEMPTORS

EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT	→	←	↑↓

PUSH BUTTON NOTES:
 PUSH BUTTON "C" SHALL PLACE A CALL IN PHASE 6 AND 8
 PUSH BUTTON "D" SHALL PLACE A CALL IN PHASE 2 AND 8

PROPOSED CONTROLLER SEQUENCE

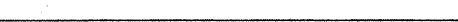


LEGEND

[Symbol]	SINGLE ENTRY PHASE
[Symbol]	DUAL ENTRY PHASE
[Symbol]	OVERLAP
[Symbol]	PEDESTRIAN PHASE
[Symbol]	NUMBER REFERS TO ASSOCIATED PHASE

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	2	3
C	6	7

SHOPS AT OAK BROOK PLACE
PHASE DESIGNATION DIAGRAM



TS32

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 USER NAME = MILLENNIA

TRAFFIC SIGNAL LEGEND

- PROPOSED**
- CONTROLLER
 - SERVICE INSTALLATION
 - SIGNAL HEAD WITH BACKPLATE
 - SIGNAL HEAD, PEDESTRIAN
 - SIGNAL POST
 - MAST ARM ASSEMBLY AND POLE, STEEL
 - MAST ARM ASSEMBLY AND POLE, ALUMINUM
 - COMMON TRENCH
 - UNIT DUCT
 - HANDHOLE
 - HEAVY DUTY HANDHOLE
 - DOUBLE HANDHOLE
 - G.S. CONDUIT IN TRENCH OR PUSHED

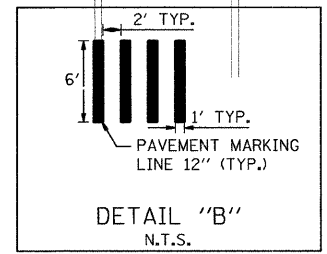
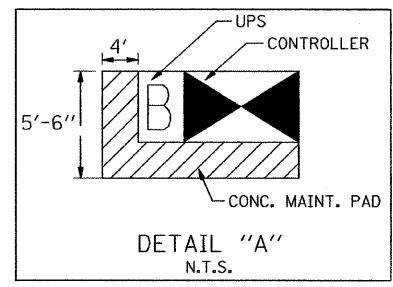
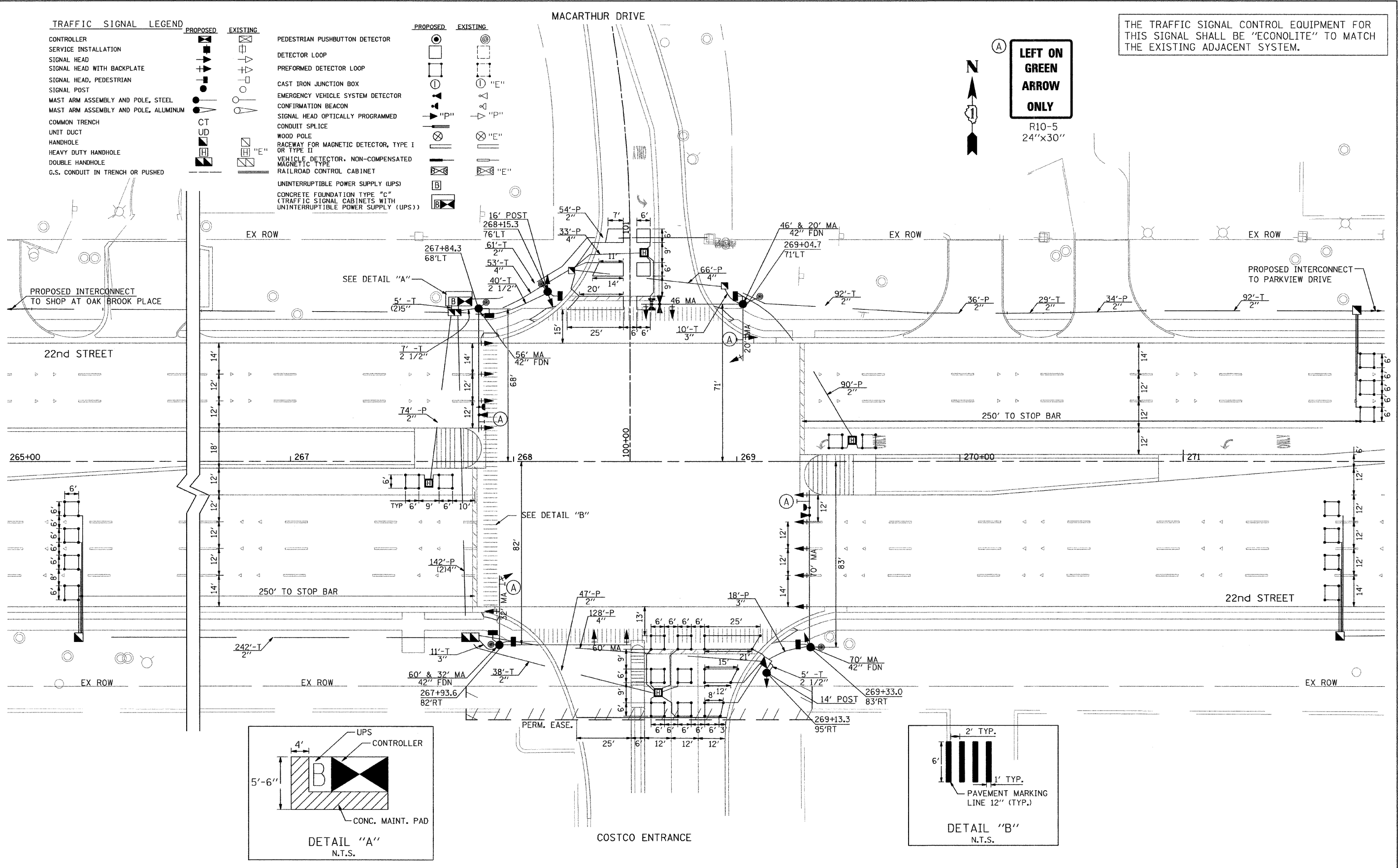
- EXISTING**
- PEDESTRIAN PUSHBUTTON DETECTOR
 - DETECTOR LOOP
 - PREFORMED DETECTOR LOOP
 - CAST IRON JUNCTION BOX
 - EMERGENCY VEHICLE SYSTEM DETECTOR
 - CONFIRMATION BEACON
 - SIGNAL HEAD OPTICALLY PROGRAMMED
 - CONDUIT SPLICE
 - WOOD POLE
 - RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II
 - VEHICLE DETECTOR, NON-COMPENSATED MAGNETIC TYPE
 - RAILROAD CONTROL CABINET
 - UNINTERRUPTIBLE POWER SUPPLY (UPS)
 - CONCRETE FOUNDATION TYPE "C" (TRAFFIC SIGNAL CABINETS WITH UNINTERRUPTIBLE POWER SUPPLY (UPS))

- PROPOSED**
- PEDESTRIAN PUSHBUTTON DETECTOR
 - DETECTOR LOOP
 - PREFORMED DETECTOR LOOP
 - CAST IRON JUNCTION BOX
 - EMERGENCY VEHICLE SYSTEM DETECTOR
 - CONFIRMATION BEACON
 - SIGNAL HEAD OPTICALLY PROGRAMMED
 - CONDUIT SPLICE
 - WOOD POLE
 - RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II
 - VEHICLE DETECTOR, NON-COMPENSATED MAGNETIC TYPE
 - RAILROAD CONTROL CABINET
 - UNINTERRUPTIBLE POWER SUPPLY (UPS)
 - CONCRETE FOUNDATION TYPE "C" (TRAFFIC SIGNAL CABINETS WITH UNINTERRUPTIBLE POWER SUPPLY (UPS))

- EXISTING**
- PEDESTRIAN PUSHBUTTON DETECTOR
 - DETECTOR LOOP
 - PREFORMED DETECTOR LOOP
 - CAST IRON JUNCTION BOX
 - EMERGENCY VEHICLE SYSTEM DETECTOR
 - CONFIRMATION BEACON
 - SIGNAL HEAD OPTICALLY PROGRAMMED
 - CONDUIT SPLICE
 - WOOD POLE
 - RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II
 - VEHICLE DETECTOR, NON-COMPENSATED MAGNETIC TYPE
 - RAILROAD CONTROL CABINET
 - UNINTERRUPTIBLE POWER SUPPLY (UPS)
 - CONCRETE FOUNDATION TYPE "C" (TRAFFIC SIGNAL CABINETS WITH UNINTERRUPTIBLE POWER SUPPLY (UPS))

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS SIGNAL SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

LEFT ON GREEN ARROW ONLY
R10-5
24"x30"



FILE NAME = P:\2007\ME07081_22nd.Street\Cadd\Supp3\DI6012-SHT-TS05-McArthur-01.dgn
 USER NAME = KULPINSKI, E.
 PLOT DATE = 04/01/2010

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**22nd STREET AT SHOPS AT MACARTHUR DR/COSTCO ENT.
TRAFFIC SIGNAL INSTALLATION PLAN**

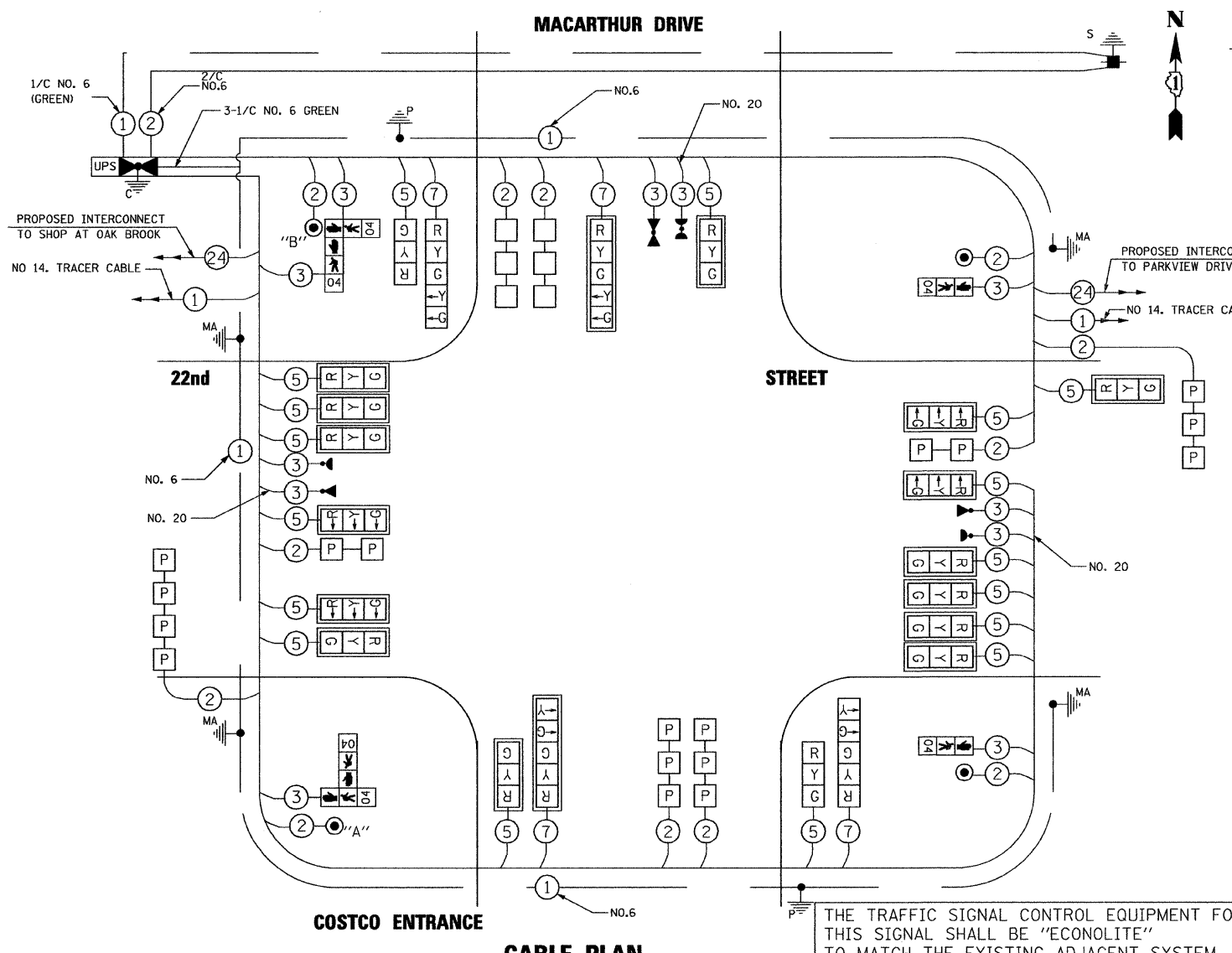
SCALE: 1"=20' SHEET NO.209A OF 362 SHEETS STA. TO STA.

F.A.U. RTE. 1453	SECTION 55WRS	COUNTY	TOTAL SHEETS 362	SHEET NO. 209A
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT		CONTRACT NO. 60D12		

TS51

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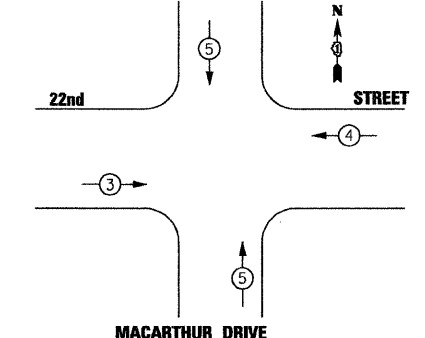
ITEM	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	32
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	554
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	52
CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	39
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	53
CONDUIT IN TRENCH, 5" DIA., GALVANIZED STEEL	FOOT	10
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	335
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	478
HANDHOLE	EACH	5
HEAVY-DUTY HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	2
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	708
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 2C	FOOT	767
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C	FOOT	1540
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	4060
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7C	FOOT	941
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	6584
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	160
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 68 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 70 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 20 FT AND 46 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 32 FT. AND 60 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	8
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	60
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	15
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	17
INDUCTIVE LOOP DETECTOR	EACH	8
DETECTOR LOOP, TYPE 1	FOOT	230
LIGHT DETECTOR	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	4
PREFORMED DETECTOR LOOP	FOOT	770
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	1097
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	740
UNINTERRUPTIBLE POWER SUPPLY	EACH	1



CABLE PLAN LEGEND		
EXISTING	PROPOSED	
		8" (200mm) TRAFFIC SIGNAL SECTION
		12" (300mm) TRAFFIC SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION WITH COUNTDOWN TIMER
		CONTROLLER CABINET
		SERVICE INSTALLATION
		VEHICLE DETECTOR, INDUCTION LOOP
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		H/C
		P
		S
		1
		24
		UPS
		P

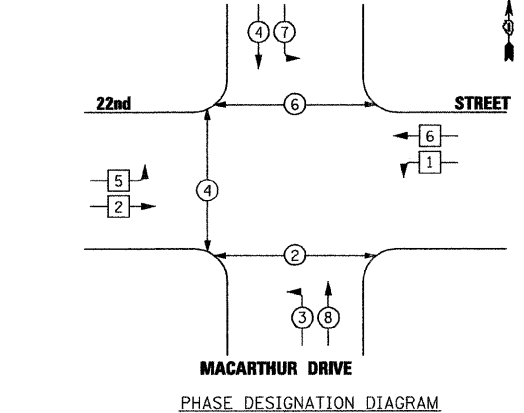
PUSH BUTTON NOTES:
 PUSH BUTTON "A" SHALL PLACE A CALL IN PHASE 2 AND 4
 PUSH BUTTON "B" SHALL PLACE A CALL IN PHASE 4 AND 6

EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT	→	←	↑↓

PROPOSED CONTROLLER SEQUENCE



LEGEND	
	SINGLE ENTRY PHASE
	DUAL ENTRY PHASE
	OVERLAP
	PEDESTRIAN PHASE
	NUMBER REFERS TO ASSOCIATED PHASE

* 100% VILLAGE OF OAK BROOK COST

TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE INCAND.	L.E.D.	OPERATION	
SIGNAL (RED)	19	135	17	0.50	178.5
(YELLOW)	19	135	25	0.25	131.3
(GREEN)	19	135	15	0.25	78.8
ARROW	12	135	12	0.10	14.4
PED. SIGNAL	4	90	25	1.00	150
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		84	25	0.05	
VIDEO VEH. SENSOR		15	15	1.00	
FLASHER				0.50	
TOTAL					652.9

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAY/DISTRICT 1
 201 CENTER CT/SCHAUMBURG, IL 60196-1096
 ENERGY SUPPLY - CONTACT: DEB RANKIN
 PHONE: 630-691-4379
 COMPANY: COMMONWEALTH EDISON

FOUNDATION (DEPTH)	(FEET) (m)	CABLE SLACK	(FEET) (m)	VERTICAL	(FEET) (m)
TYPE A - POST	4 , (1.2)	HANDHOLE	6.5 , (2.0)	ALL FOUNDATION	1.0 , (2.0)
D - CONTROLLER	4 , (1.2)	DOUBLE HANDHOLE	13 , (4.0)	MAST ARM (1.) POLE	20'-H-2 = (6m+L-0.6m)=
E - M. ARM POLE	()	SIGNAL POST	2 , (1.0)	BRACKET MOUNTED	13 , (4.0)
24" (600mm)	10 , (3.0)	CONTROLLER CAB.	1 , (0.5)	PED. PUSHBUTTON	4 , (1.2)
30" (600mm)	15 , (4.5)	FIBER OPTIC	13 , (4.0)	ELECTRIC SERVICE	13.5 , (4.1)
42" ()	15 , (4.5)	ELECTRIC SERVICE	1 , (0.5)	SERVICE TO GROUND	13. , (4.1)
		GROUND CABLE	1 , (0.5)	POST MOUNTED	6 , (1.8)

DESIGNED - TVN	REVISED -
DRAWN - TVN	REVISED -
CHECKED - RPD	REVISED -
DATE - 04/01/2010	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

22nd STREET AT MACARTHUR DRIVE
 CABLE PLAN, PHASE DESIGNATION DIAGRAM,
 AND SCHEDULE OF QUANTITIES
 SCALE: N/A SHEET NO.209B OF 362 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1453	55WRS	DUPAGE	362	209B
CONTRACT NO. 60D12				

FILE NAME: P:\2007\ME07081-22nd-Street\Draw\Supp3\DI68012-SHT-TS05-McAr-thur-02.dgn
 USER NAME: MILLENNIA ENGINEERING

TEMPORARY TRAFFIC SIGNAL LEGEND

- ← TEMPORARY TRAFFIC SIGNAL HEAD
SPAN WIRE MOUNTED ORIGINAL LOCATION
- ⊗ TEMPORARY WOOD POLE (CLASS 5
OR BETTER) 45 FOOT (13.7m) MINIMUM
- ☒ TEMPORARY CONTROLLER CABINET
- TEMPORARY SPAN WIRE, TETHER
WIRE, AND CABLE
- ☐ TEMPORARY SERVICE INSTALLATION
- ☐ TEMPORARY PEDESTRIAN SIGNAL
HEAD, BRACKET MOUNTED
- ⊙ PEDESTRIAN PUSHBUTTON DETECTOR
- ▲ EMERGENCY VEHICLE LIGHT DETECTOR
- ▲ CONFIRMATION BEACON
- VEHICLE DETECTOR, INDUCTION LOOP
- CT COMMON TRENCH
- UD UNIT DUCT
- G.S. CONDUIT IN TRENCH OR PUSHED
- H HEAVY DUTY HANDHOLE
- ▨ VIDEO VEHICLE DETECTOR CAMERA
- ▨ TEMPORARY VIDEO DETECTION ZONE (50' TYPICAL)
- ⊕ TEMPORARY RADIO INTERCONNECT
- ⊕ UNINTERRUPTIBLE POWER SUPPLY

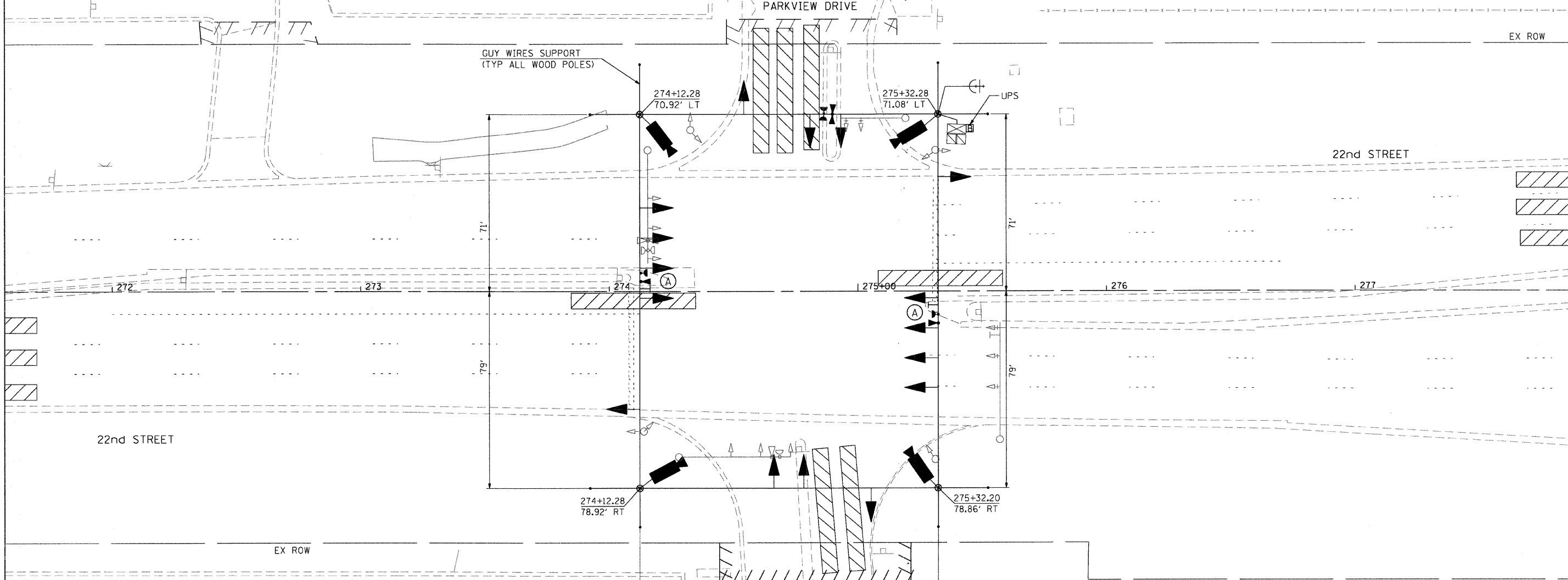
**LEFT ON
GREEN
ARROW
ONLY**
R10-5

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS TEMPORARY SIGNAL SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

NOTE: THE EXISTING CONDUITS, AND LOOP DETECTORS SHALL BE ABANDONED.

NOTES FOR TEMPORARY TRAFFIC SIGNALS

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR MICROPROCESSOR BASE WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1 INSTALLED IN A NEMA TS1 OR TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE 12". HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC STAGING ARE IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
7. 24" WHITE STOP BAR MUST BE IN PLACE AT THE TIME OF SIGNAL TURN ON.
8. RIGHT-TURN OVERLAP ARROW SECTIONS SHALL BE BAGGED UNTIL RIGHT TURN LANES ARE OPEN TO TRAFFIC



REMOVAL NOTES

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

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 4 EACH STEEL MAST ARM ASSEMBLY AND POLE
- 4 EACH SIGNAL POST
- 19 EACH SIGNAL HEADS

NOTES

1. FOR TEMPORARY TRAFFIC SIGNAL CABLE PLAN SEE SHEET NO. 201
2. TEMPORARY TRAFFIC SIGNALS SHALL BE TURNED ON PRIOR TO STAGE I CONSTRUCTION. TEMPORARY TRAFFIC SIGNAL HEADS MUST BE RELOCATED TO STAGE 2, 3 & 4 CONSTRUCTION LOCATION PRIOR TO THE START OF STAGE 2, 3 & 4 CONSTRUCTION AS SHOWN ON THE PLANS.
3. ONLY AN APPROVED IDOT ELECTRICAL SUBCONTRACTOR WILL BE PERMITTED TO INSTALL AND ADJUST VIDEO VEHICLE DETECTION SYSTEM AS REQUIRED BY STAGE/PHASE CHANGES.
4. FOR TEMPORARY TRAFFIC SIGNAL CONTROL PLATFORM DETAIL TEMPORARY VIDEO DETECTION CAMERA MOUNTING DETAIL SEE SHEET NO. 227

EXISTING EQUIPMENT TO BE REMOVED LEGEND

- ☒ EXISTING CONTROLLER AND FOUNDATION
- ☐ EXISTING SERVICE INSTALLATION
- EXISTING SIGNAL POST
- EXISTING MAST ARM ASSEMBLY AND POLE, STEEL
- EXISTING MAST ARM ASSEMBLY AND POLE, ALUMINUM
- EXISTING HANDHOLE
- ☐ EXISTING HEAVY DUTY HANDHOLE

FILE NAME: s:\2007\me07081.22nd.street\load\shs\0160012-SHT-TTS04-Parkview-Bl.dgn
 PLOT SCALE: 20/0000 IN.
 USER NAME: Millennium_Engineering

200 22ND Street, Suite 216, Lombard, IL 60148
 630.705.0110 voice, 630.839.2566 fax
 www.millenniaeng.com
MILLENNIA ENGINEERING

DESIGNED - TVN	REVISED -
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DATE - 7/24/2009	REVISED -

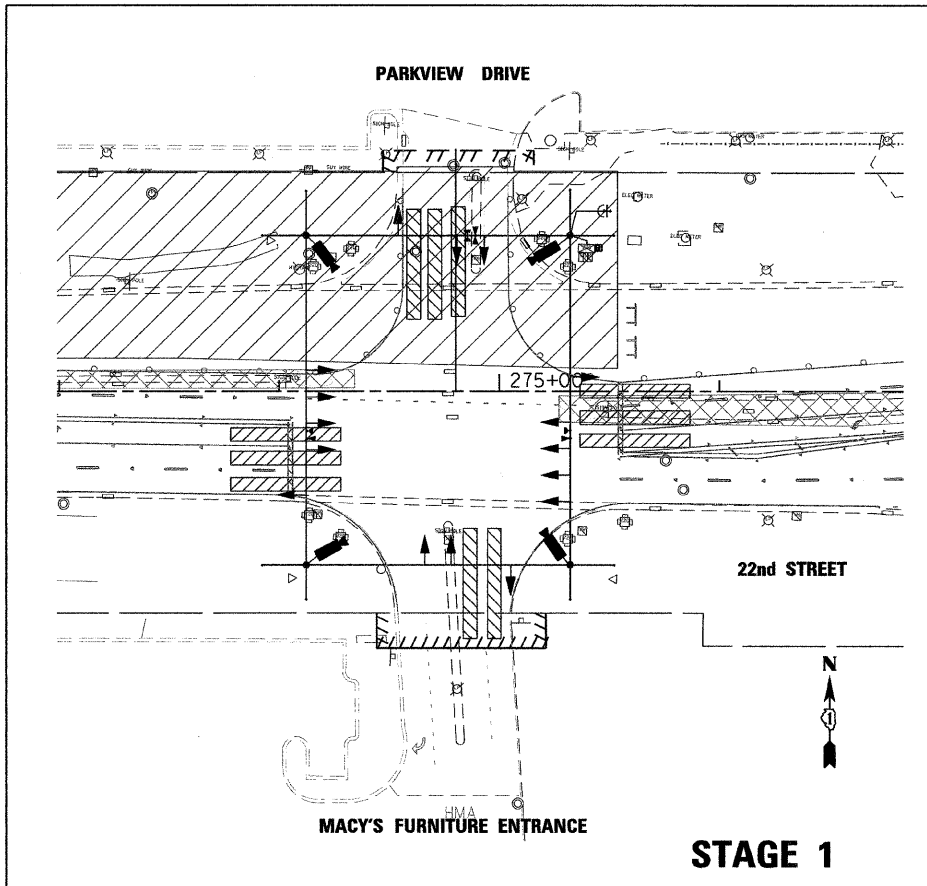
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**22nd STREET AT PARKVIEW DRIVE
TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN**

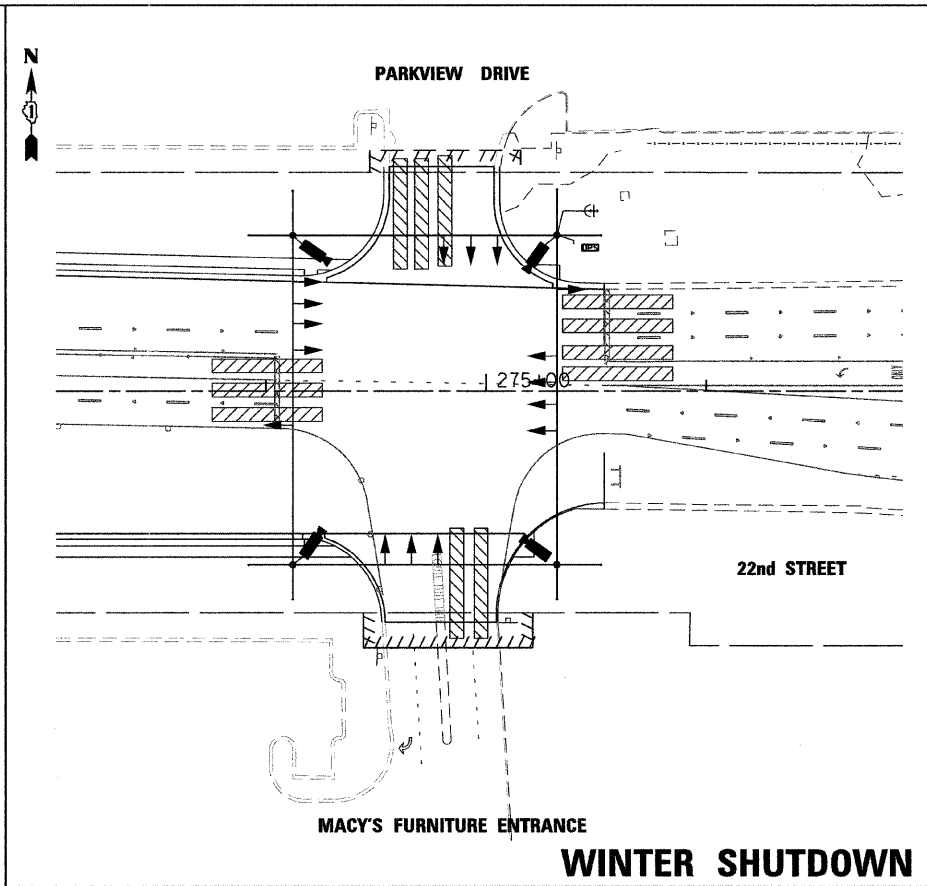
SCALE: 1"=20' SHEET NO. 210 OF 362 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1453	55WRS	DUPAGE	362	210
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60D12	

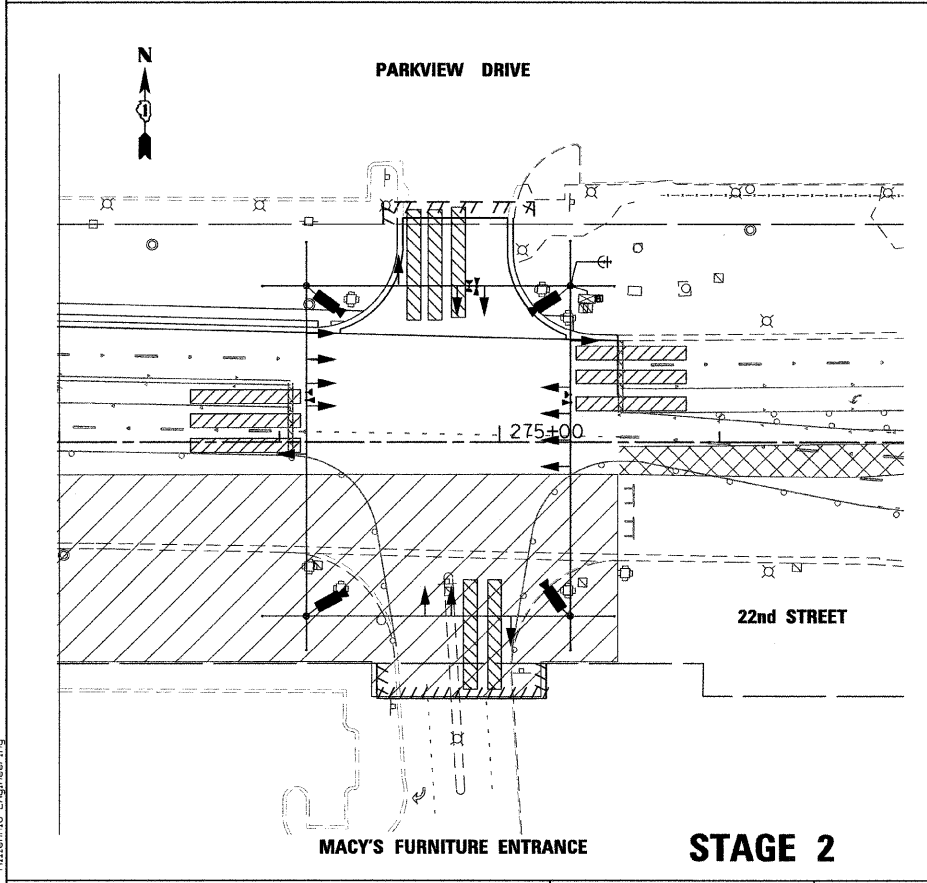
TTS41



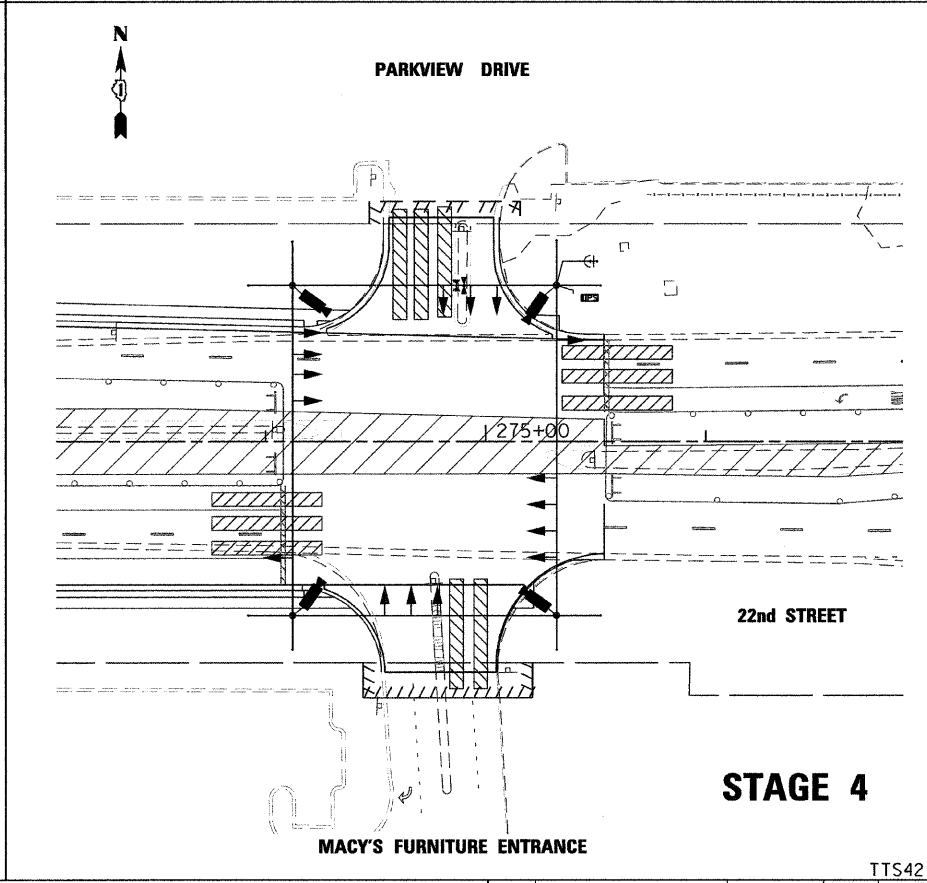
STAGE 1



WINTER SHUTDOWN



STAGE 2



STAGE 4

FILE NAME : P:\2007\ME07881\22nd.Street\Cadd\Shots\0168012-SHT-TTS04-Parkview-02.dgn
 PLOT SCALE : 48.0000 / IN.
 USER NAME : Millennia Engineering



200 22ND Street, Suite 216, Lombard, IL 60148
 630.705.0110 voice, 630.839.2566 fax
 www.milleniaeng.com
MILLENNIA ENGINEERING

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DATE - 10/05/2009	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**22nd STREET AT PARKVIEW DRIVE
TEMPORARY TRAFFIC SIGNAL M.O.T. STAGING PLAN**

SCALE: SHEET NO. 211 OF 362 SHEETS STA. TO STA.

F.A.U. RTE. 1453	SECTION 55WRS	COUNTY	TOTAL SHEETS 362	SHEET NO. 211
			CONTRACT NO. 60D12	

FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT
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TTS42

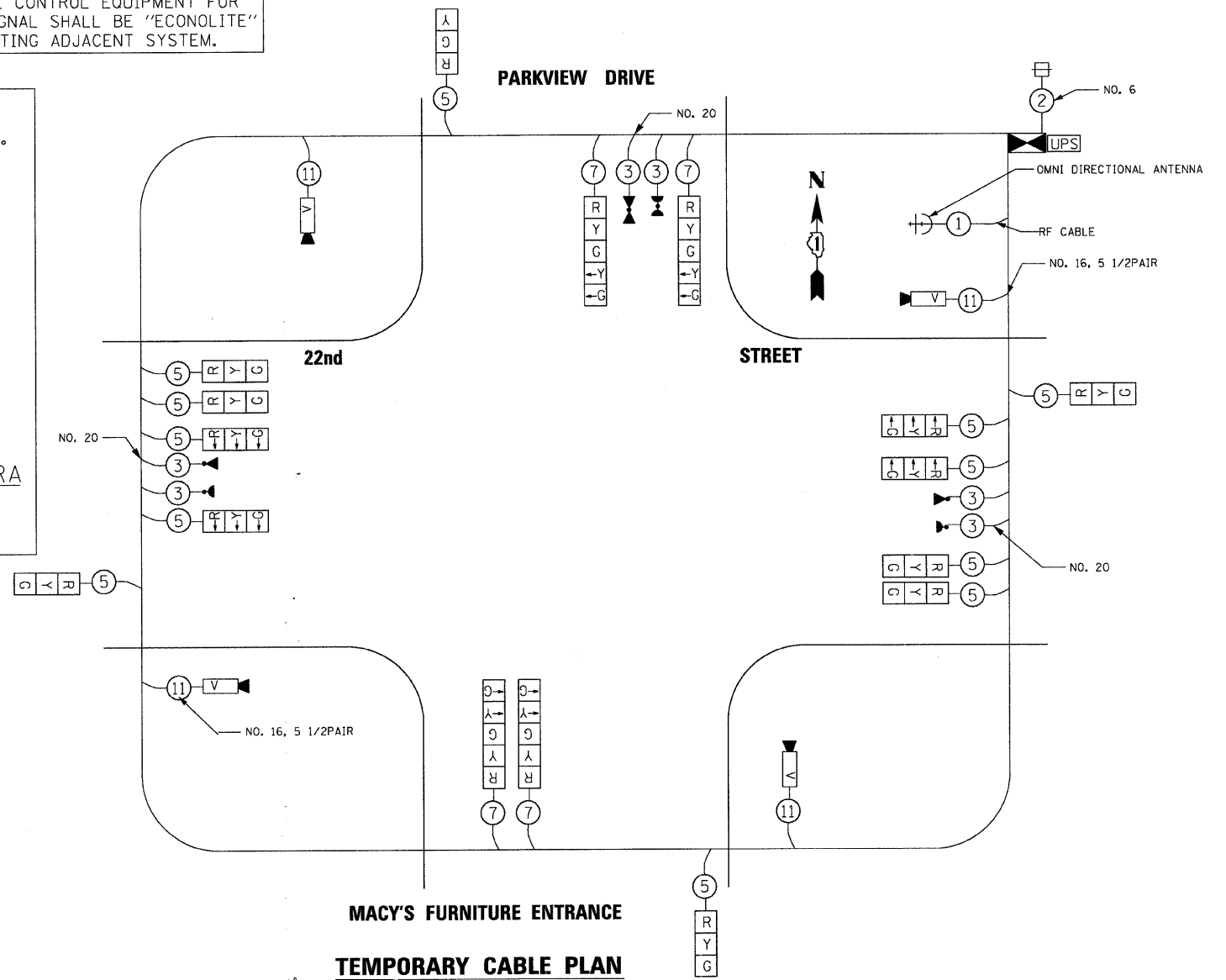
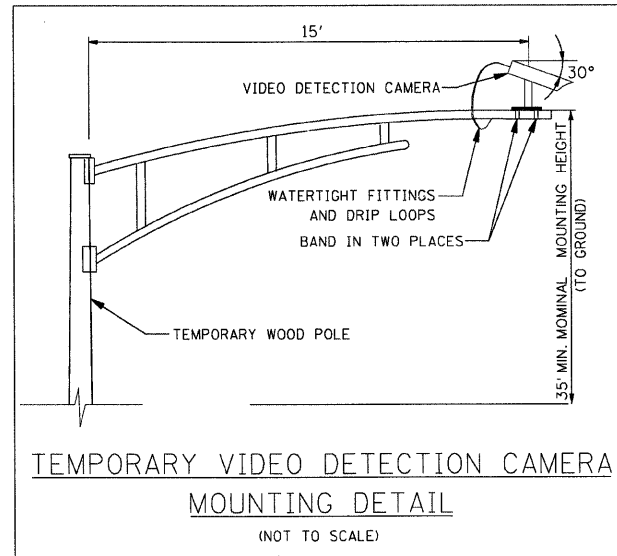
TEMPORARY CABLE DIAGRAM LEGEND

- R TEMPORARY TRAFFIC SIGNAL SECTION OR PEDESTRIAN SIGNAL SECTION 12" (300mm)
- ⊠ TEMPORARY CONTROLLER CABINET
- 2 INDICATES NUMBER OF CONDUCTORS IN CABLE. ALL CONDUCTORS TO BE NUMBER 14 AWG WIRE UNLESS OTHERWISE NOTED.
- ⊞ TEMPORARY SERVICE INSTALLATION
- ▶ EMERGENCY VEHICLE LIGHT DETECTOR
- ◀ CONFIRMATION BEACON
- PEDESTRIAN PUSHBUTTON DETECTOR
- VEHICLE DETECTOR, INDUCTION LOOP
- V VIDEO VEHICLE DETECTION CAMERA
- C CLOSED CIRCUIT TV
- T TELEPHONE CONNECTION
- ⊕ TEMPORARY RADIO INTERCONNECT
- UPS UNINTERRUPTIBLE POWER SUPPLY

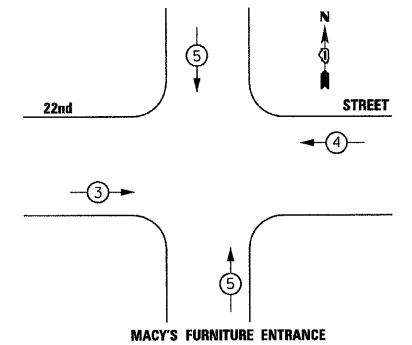
NOTES

1. ONLY AN APPROVED IDOT ELECTRICAL SUBCONTRACTOR WILL BE PERMITTED TO INSTALL AND ADJUST VIDEO VEHICLE DETECTION SYSTEM AS REQUIRED BY STAGE/PHASE CHANGES.
2. FOR TEMPORARY TRAFFIC SIGNAL CONTROLLER PLATFORM DETAIL. SEE SHEET NO. 227

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS TEMPORARY SIGNAL SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

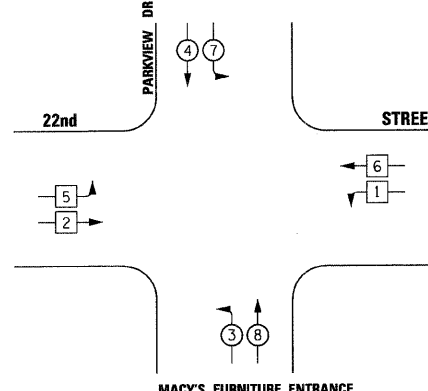


EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	→	←

TEMPORARY CONTROLLER SEQUENCE



LEGEND

- ◀ SINGLE ENTRY PHASE
- ◀ DUAL ENTRY PHASE
- ◊ OVERLAP
- ◀ PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE INCAND.	WATTAGE L.E.D.	OPERATION	
SIGNAL (RED)	16	135	17	0.50	136
(YELLOW)	16	135	25	0.25	100
(GREEN)	16	135	15	0.25	60
ARROW	8	135	12	0.10	9,6
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		84		0.05	
VIDEO VEH. SENSOR	4	15	15	1.00	60
FLASHER				0.50	
TOTAL					465.6

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAY/DISTRICT 1
 201 CENTER CT/SCHAUMBURG, IL 60196-1096
 ENERGY SUPPLY - CONTACT: DEB RANKIN
 PHONE: 630-691-4379
 COMPANY: COMMONWEALTH EDISON

200 22ND Street, Suite 216, Lombard, IL 60148
 630.795.0119 voice, 630.839.2566 fax
 www.millenniaeng.com

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CHECKED - RPD	REVISED -
DATE - 7/24/2009	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**22nd STREET AT PARKVIEW DRIVE
 TEMPORARY TRAFFIC SIGNAL CABLE PLAN, AND
 PHASE DESIGNATION DIAGRAM**

SCALE: N/A SHEET NO. 212 OF 362 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1453	55WRS	DUPAGE	362	212

CONTRACT NO. 60D12

FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT

TTS43

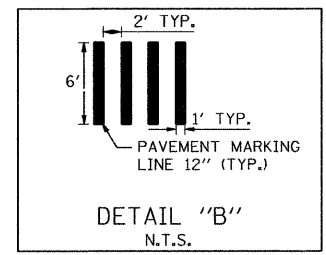
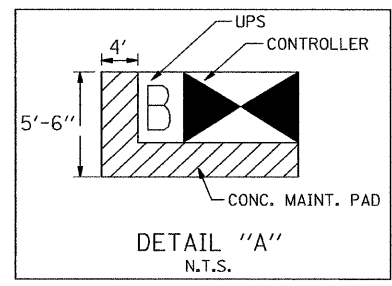
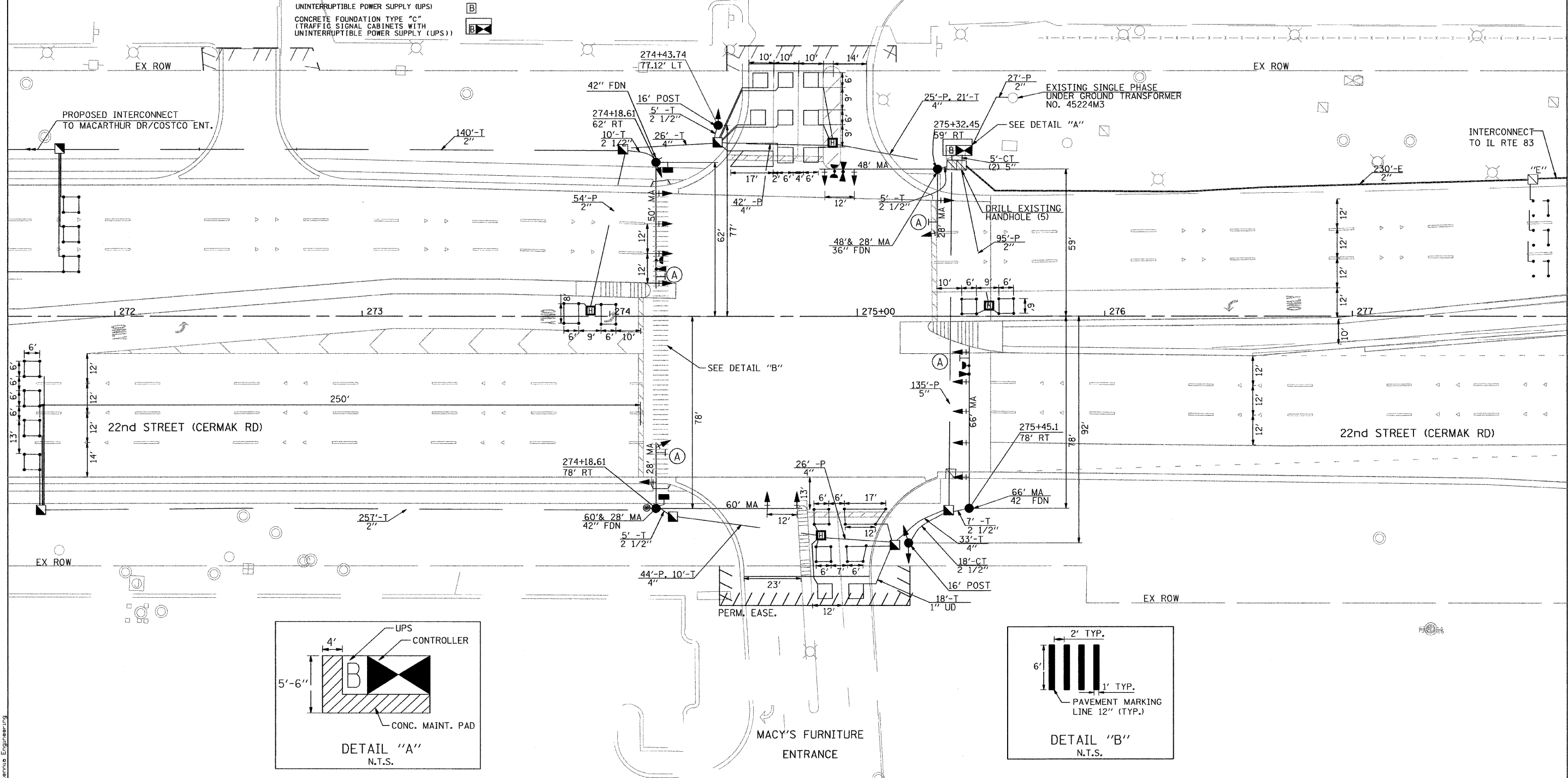
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 USER NAME = Millennium Engineering
 pr\2007\me07081_22nd.street\load\shs\DI60D12-SHT-TTS04-Parkview-03.dgn

TRAFFIC SIGNAL LEGEND

PROPOSED	EXISTING	PROPOSED	EXISTING

LEFT ON GREEN ARROW ONLY
R10-5
24"x30"

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS SIGNAL SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.



FILE NAME: P:\2007\ME07081_22nd_Street\Cadd\Supp3\0168012-SHT-TS04-Parkview-01.dgn
USER: JIN
DATE: 04/01/2010

MILLENNIA ENGINEERING
200 22ND Street, Suite 216, Lombard, IL 60148
630.785.0110 voice, 630.833.2566 fax
www.millenniaeng.com

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CHECKED - RPD	REVISED -
DATE - 04/01/2010	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**22nd STREET AT PARKVIEW DRIVE
TRAFFIC SIGNAL INSTALLATION PLAN**
SCALE: 1"=20'
SHEET NO. 213 OF 362 SHEETS STA. TO STA.

F.A.U. RTE. 1453	SECTION 55WRS	COUNTY DUPAGE	TOTAL SHEETS 362	SHEET NO. 213
CONTRACT NO. 60D12				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

TS41

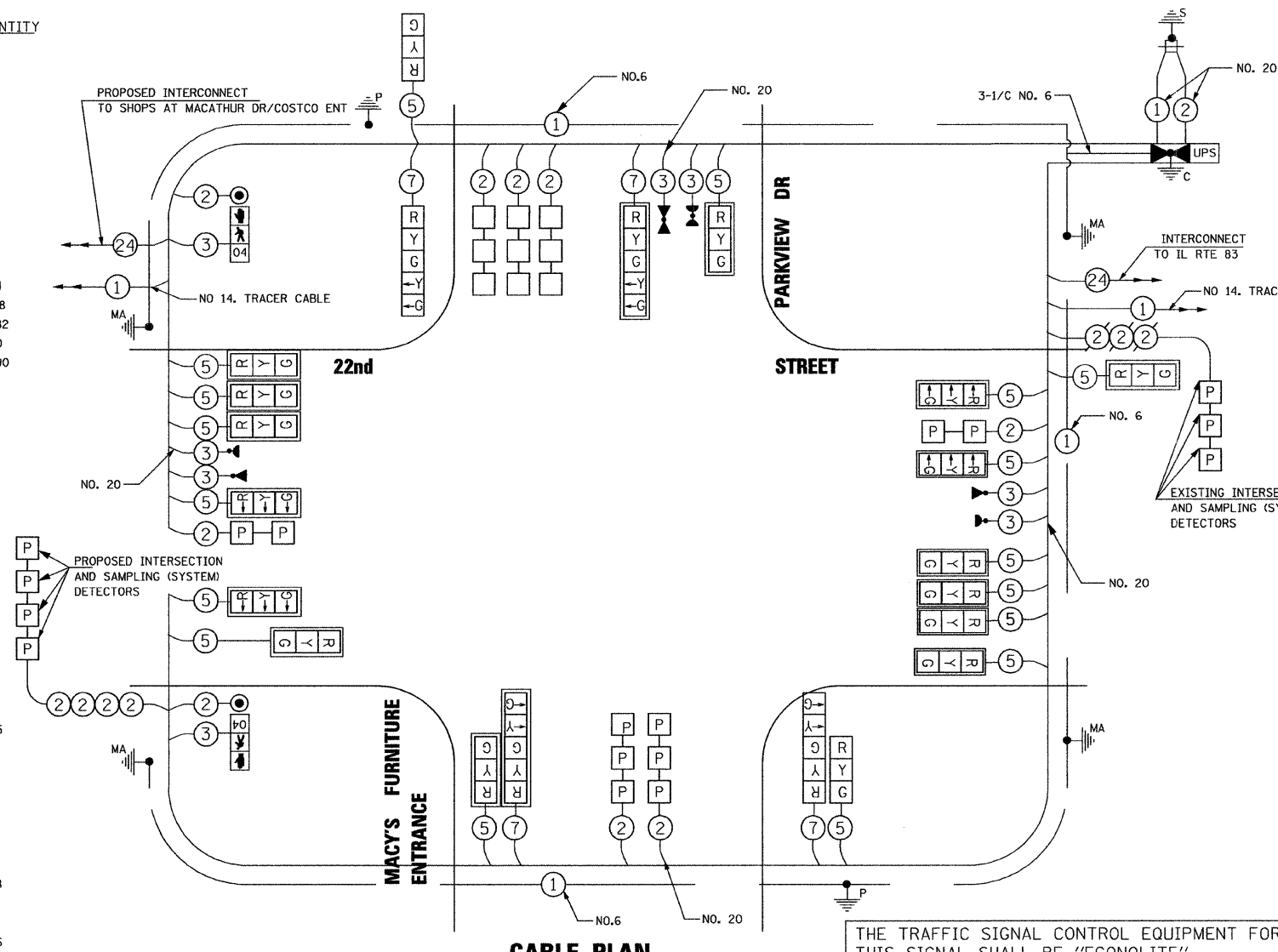
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SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	64
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	50
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	57
CONDUIT IN TRENCH, 5" DIA., GALVANIZED STEEL	FOOT	10
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	149
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	132
CONDUIT PUSHED, 5" DIA., GALVANIZED STEEL	FOOT	135
HANDHOLE	EACH	5
HEAVY-DUTY HANDHOLE	EACH	4
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	181
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 2C	FOOT	444
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C	FOOT	1108
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	3282
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7C	FOOT	780
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	4790
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	31
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 50 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 66 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 48 FT. AND 28 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 60 FT. AND 28 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	8
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	15
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	45
DRILL EXISTING HANDHOLE	EACH	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	15
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	16
INDUCTIVE LOOP DETECTOR	EACH	10
DETECTOR LOOP, TYPE 1	FOOT	305
LIGHT DETECTOR	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	2
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	5
REMOVE EXISTING CONCRETE FOUNDATION	EACH	8
PREFORMED DETECTOR LOOP	FOOT	338
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	546
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	495
UNINTERRUPTIBLE POWER SUPPLY	EACH	1
TEMPORARY TRAFFIC SIGNAL INTERCONNECT	EACH	1

CABLE PLAN LEGEND

EXISTING	PROPOSED	DESCRIPTION
[Symbol]	[Symbol]	8" (200mm) TRAFFIC SIGNAL SECTION
[Symbol]	[Symbol]	12" (300mm) TRAFFIC SIGNAL SECTION
[Symbol]	[Symbol]	12" (300mm) PEDESTRIAN SIGNAL SECTION
[Symbol]	[Symbol]	12" (300mm) PEDESTRIAN SIGNAL SECTION WITH COUNTDOWN TIMER
[Symbol]	[Symbol]	CONTROLLER CABINET
[Symbol]	[Symbol]	SERVICE INSTALLATION
[Symbol]	[Symbol]	VEHICLE DETECTOR, INDUCTION LOOP
[Symbol]	[Symbol]	MAGNETIC DETECTOR
[Symbol]	[Symbol]	EMERGENCY VEHICLE LIGHT DETECTOR
[Symbol]	[Symbol]	CONFIRMATION BEACON
[Symbol]	[Symbol]	PUSHBUTTON DETECTOR
[Symbol]	[Symbol]	DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
[Symbol]	[Symbol]	SIGNAL FACE WITH BACKPLATE "P" INDICATES PROGRAMMED HEAD.
[Symbol]	[Symbol]	RAILROAD CONTROL CABINET
[Symbol]	[Symbol]	ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
[Symbol]	[Symbol]	ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
[Symbol]	[Symbol]	GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
[Symbol]	[Symbol]	GROUND ROD AT POST OR MAST ARM POLE
[Symbol]	[Symbol]	GROUND ROD AT ELECTRIC SERVICE INSTALLATION
[Symbol]	[Symbol]	GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
[Symbol]	[Symbol]	FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F & SM12F
[Symbol]	[Symbol]	UNINTERRUPTIBLE POWER SUPPLY (UPS)
[Symbol]	[Symbol]	PREFORMED LOOP DETECTION

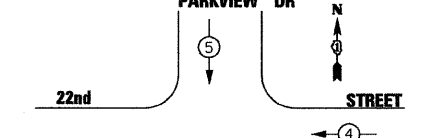


CABLE PLAN

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS SIGNAL SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

NOTE: ALL LOOP DETECTION SHOWN ON THIS PLAN WILL BE "PREFORMED" DETECTION LOOPS.

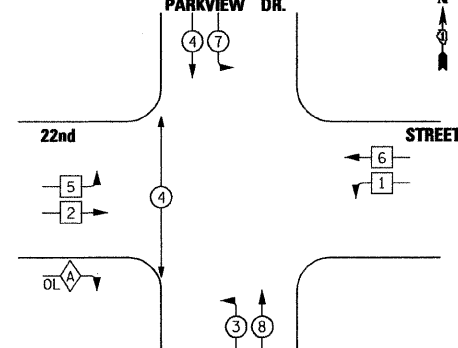
EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS

EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT	→	←	↑↓

PROPOSED CONTROLLER SEQUENCE



MACY'S FURNITURE ENTRANCE PHASE DESIGNATION DIAGRAM

TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	WATTAGE INCAND.	L.E.D.	OPERATION	TOTAL WATTAGE
SIGNAL (RED)	17	135	17	0.50	178.5
(YELLOW)	17	135	25	0.25	131.3
(GREEN)	17	135	15	0.25	78.8
ARROW	12	135	12	0.10	14.4
PED. SIGNAL		90	25	1.00	50
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		84		0.05	
TOTAL					552.9

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAY/DISTRICT 1
 201 CENTER CT/SCHAUMBURG, IL 60196-1096
 ENERGY SUPPLY - CONTACT: DEB RANKIN
 PHONE: 630-691-4379
 COMPANY: COMMONWEALTH EDISON

FOUNDATION (DEPTH)	(FEET) (m)	CABLE SLACK	(FEET) (m)	VERTICAL	(FEET) (m)
TYPE A - POST	4, (1.2)	HANDHOLE	6.5, (2.0)	ALL FOUNDATION	1.0, (2.0)
D - CONTROLLER	4, (1.2)	DOUBLE HANDHOLE	13, (4.0)	MAST ARM (L) POLE	20'+L-2 = (6m+L-0.6m)=
E - M. ARM POLE	()	SIGNAL POST	2, (1.0)	BRACKET MOUNTED	13, (4.0)
24" (600mm)	10, (3.0)	CONTROLLER CAB.	1, (0.5)	PED. PUSHBUTTON	4, (1.2)
30" (600mm)	15, (4.5)	FIBER OPTIC	13, (4.0)	ELECTRIC SERVICE	13.5, (4.1)
36"	15, (4.5)	ELECTRIC SERVICE	1, (0.5)	SERVICE TO GROUND	13, (4.1)
42"	15, (4.5)	GROUND CABLE	1, (0.5)	POST MOUNTED	6, (1.8)

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DATE - 04/01/2010	REVISED -

22nd STREET AT PARKVIEW DRIVE CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND SCHEDULE OF QUANTITIES

F.A.J. RTE. 1453	SECTION 55WRS	COUNTY DUPAGE	TOTAL SHEETS 362	SHEET NO. 214
SCALE: N/A			CONTRACT NO. 60D12	

FILE NAME: P:\2007\ME07081_22nd.Street\Cadd\Supp3\0160D12-SHT-TS04-Parkview-02.dgn
 USER: KJL
 MILLENNIA ENGINEERING

TEMPORARY TRAFFIC SIGNAL LEGEND

- ◀ TEMPORARY TRAFFIC SIGNAL HEAD
SPAN WIRE MOUNTED ORIGINAL LOCATION
- ⊗ TEMPORARY WOOD POLE (CLASS 5
OR BETTER) 45 FOOT (13.7m) MINIMUM
- ▣ TEMPORARY CONTROLLER CABINET
- TEMPORARY SPAN WIRE, TETHER
WIRE, AND CABLE
- ⊞ TEMPORARY SERVICE INSTALLATION
- ⊞ TEMPORARY PEDESTRIAN SIGNAL
HEAD, BRACKET MOUNTED
- ⊙ PEDESTRIAN PUSHBUTTON DETECTOR
- ⚡ EMERGENCY VEHICLE LIGHT DETECTOR
- ⬆ CONFIRMATION BEACON
- VEHICLE DETECTOR, INDUCTION LOOP
- CT COMMON TRENCH
- UD UNIT DUCT
- G.S. CONDUIT IN TRENCH OR PUSHED
- ⊞ HEAVY DUTY HANDHOLE
- ⊞ VIDEO VEHICLE DETECTOR CAMERA
- ▨ TEMPORARY VIDEO DETECTION ZONE (50' TYPICAL)
- ⊞ TEMPORARY RADIO INTERCONNECT
- ⊞ UNINTERRUPTIBLE POWER SUPPLY

**LEFT ON
GREEN
ARROW
ONLY**

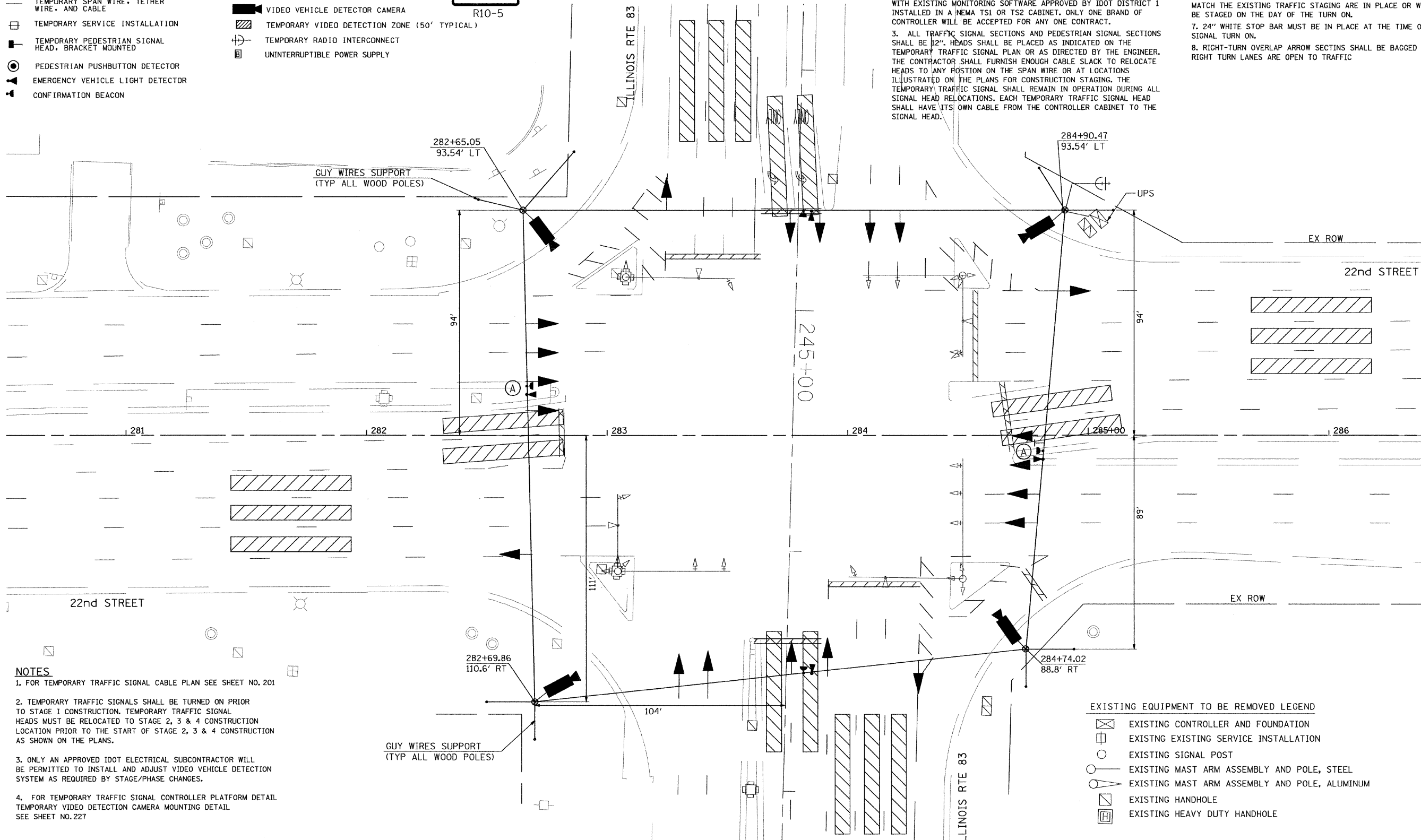
R10-5

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS TEMPORARY SIGNAL SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

NOTES FOR TEMPORARY TRAFFIC SIGNALS

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR MICROPROCESSOR BASE WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1 INSTALLED IN A NEMA TS1 OR TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE 12". HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.

4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC STAGING ARE IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
7. 24" WHITE STOP BAR MUST BE IN PLACE AT THE TIME OF SIGNAL TURN ON.
8. RIGHT-TURN OVERLAP ARROW SECTIONS SHALL BE BAGGED UNTIL RIGHT TURN LANES ARE OPEN TO TRAFFIC



NOTES

1. FOR TEMPORARY TRAFFIC SIGNAL CABLE PLAN SEE SHEET NO. 201
2. TEMPORARY TRAFFIC SIGNALS SHALL BE TURNED ON PRIOR TO STAGE 1 CONSTRUCTION. TEMPORARY TRAFFIC SIGNAL HEADS MUST BE RELOCATED TO STAGE 2, 3 & 4 CONSTRUCTION LOCATION PRIOR TO THE START OF STAGE 2, 3 & 4 CONSTRUCTION AS SHOWN ON THE PLANS.
3. ONLY AN APPROVED IDOT ELECTRICAL SUBCONTRACTOR WILL BE PERMITTED TO INSTALL AND ADJUST VIDEO VEHICLE DETECTION SYSTEM AS REQUIRED BY STAGE/PHASE CHANGES.
4. FOR TEMPORARY TRAFFIC SIGNAL CONTROLLER PLATFORM DETAIL TEMPORARY VIDEO DETECTION CAMERA MOUNTING DETAIL SEE SHEET NO. 227

EXISTING EQUIPMENT TO BE REMOVED LEGEND

- ⊞ EXISTING CONTROLLER AND FOUNDATION
- ⊞ EXISTING EXISTING SERVICE INSTALLATION
- EXISTING SIGNAL POST
- ⊞ EXISTING MAST ARM ASSEMBLY AND POLE, STEEL
- ⊞ EXISTING MAST ARM ASSEMBLY AND POLE, ALUMINUM
- ⊞ EXISTING HANDHOLE
- ⊞ EXISTING HEAVY DUTY HANDHOLE

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 USER NAME = MILLENNIA_ENGINEERING_119

MILLENNIA ENGINEERING
 200 22ND Street, Suite 216, Lombard, IL 60148
 630.705.0110 voice, 630.839.3566 fax
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DEPARTMENT OF TRANSPORTATION**

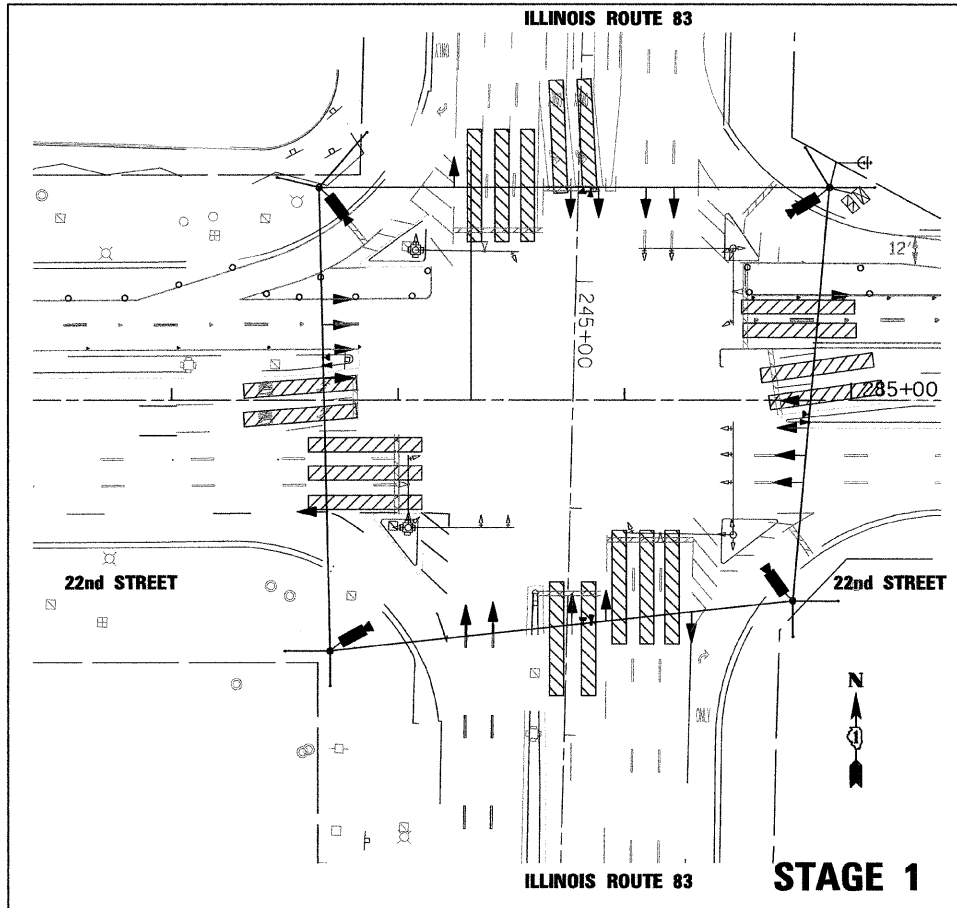
**22nd STREET ILLINOIS RTE 83
TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN**

SCALE: 1"=20' SHEET NO.214A OF 362 SHEETS STA. TO STA.

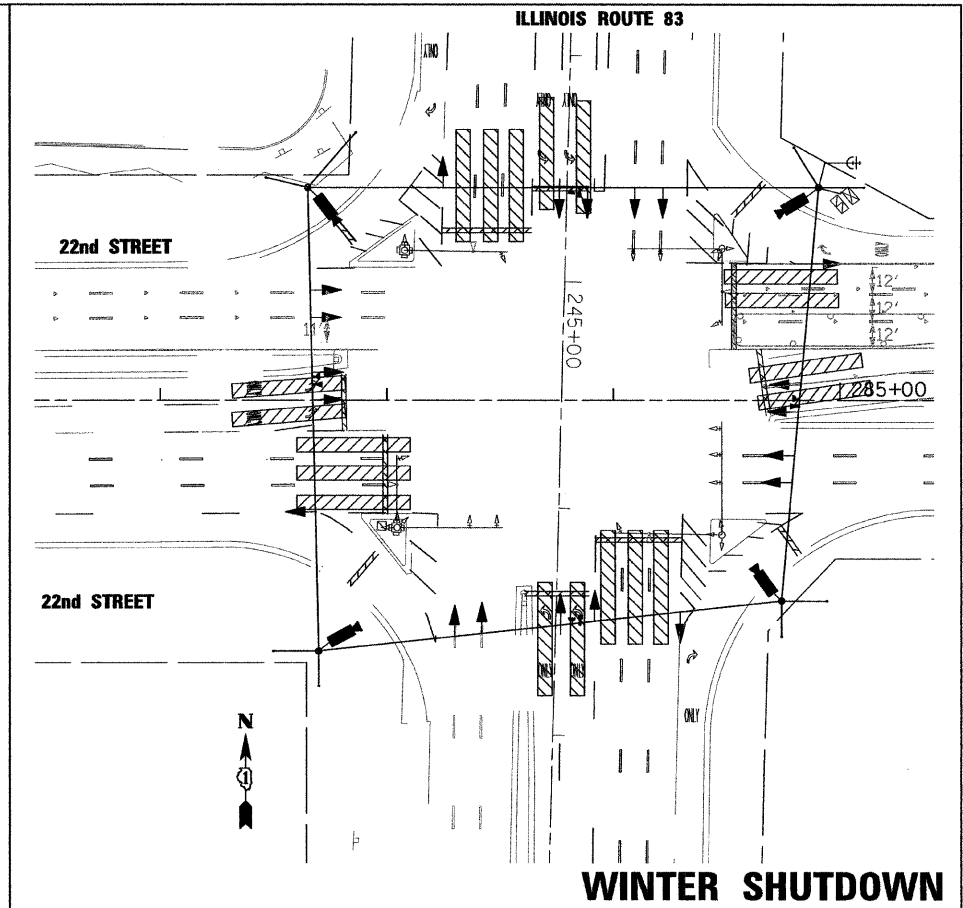
F.A.U. RTE. 1453	SECTION 55WRS	COUNTY DUPAGE	TOTAL SHEETS 362	SHEET NO. 214A
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60D12	

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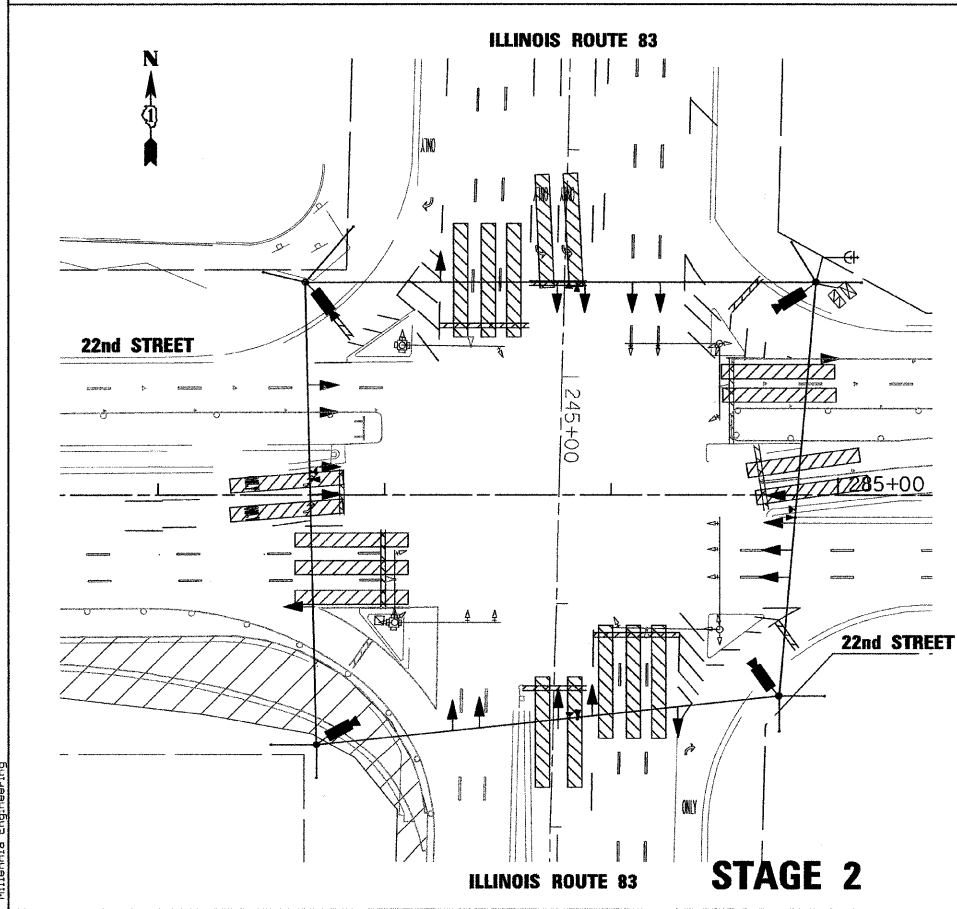
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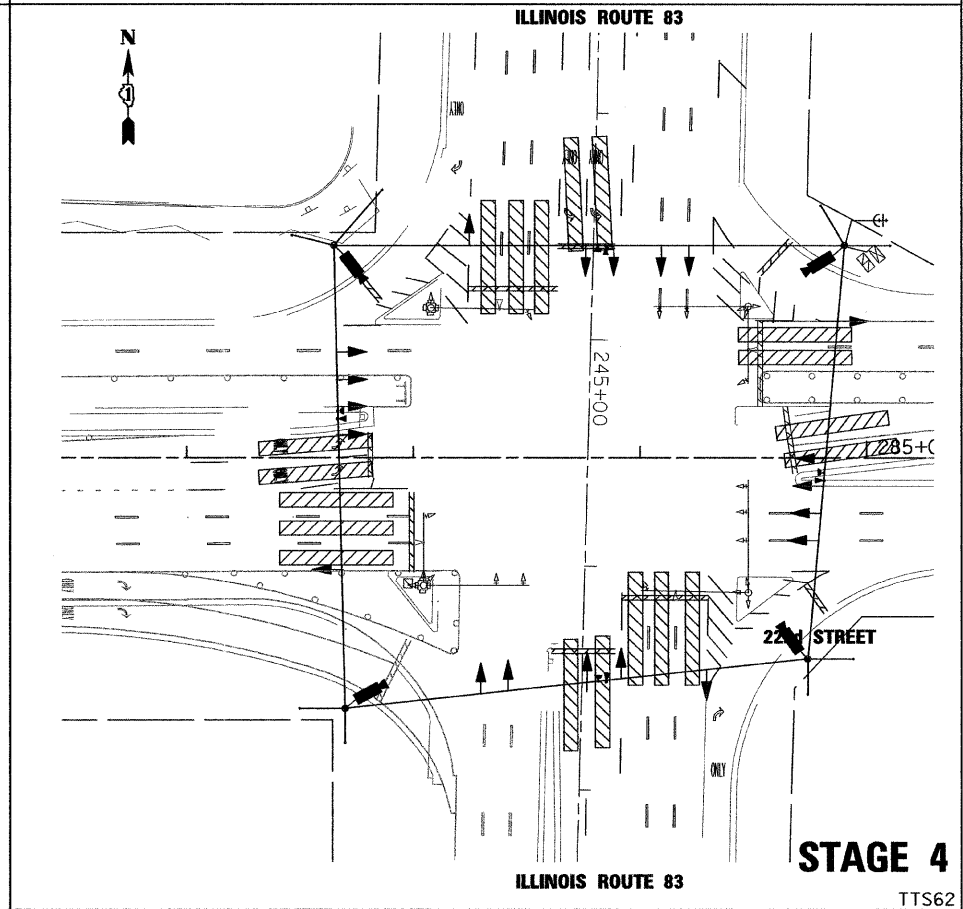
ILLINOIS ROUTE 83
STAGE 1



ILLINOIS ROUTE 83
WINTER SHUTDOWN



ILLINOIS ROUTE 83
STAGE 2



ILLINOIS ROUTE 83
STAGE 4

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 USER NAME = MLEB7881
 USER NAME = MILLENNIA ENGINEERING



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 630.785.9110 voice, 630.839.3566 fax
 www.milleniaeng.com
MILLENNIA ENGINEERING

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DATE - 04/01/2010	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**22nd STREET AT ILLINOIS ROUTE 83
 TEMPORARY TRAFFIC SIGNAL M.O.T. STAGING PLAN**

SCALE: SHEET NO. 211 OF 362 SHEETS STA. TO STA.

F.A.U. RTE. 1453	SECTION 55WRS	COUNTY DUPAGE	TOTAL SHEETS 362	SHEET NO. 214B
CONTRACT NO. 60D12				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

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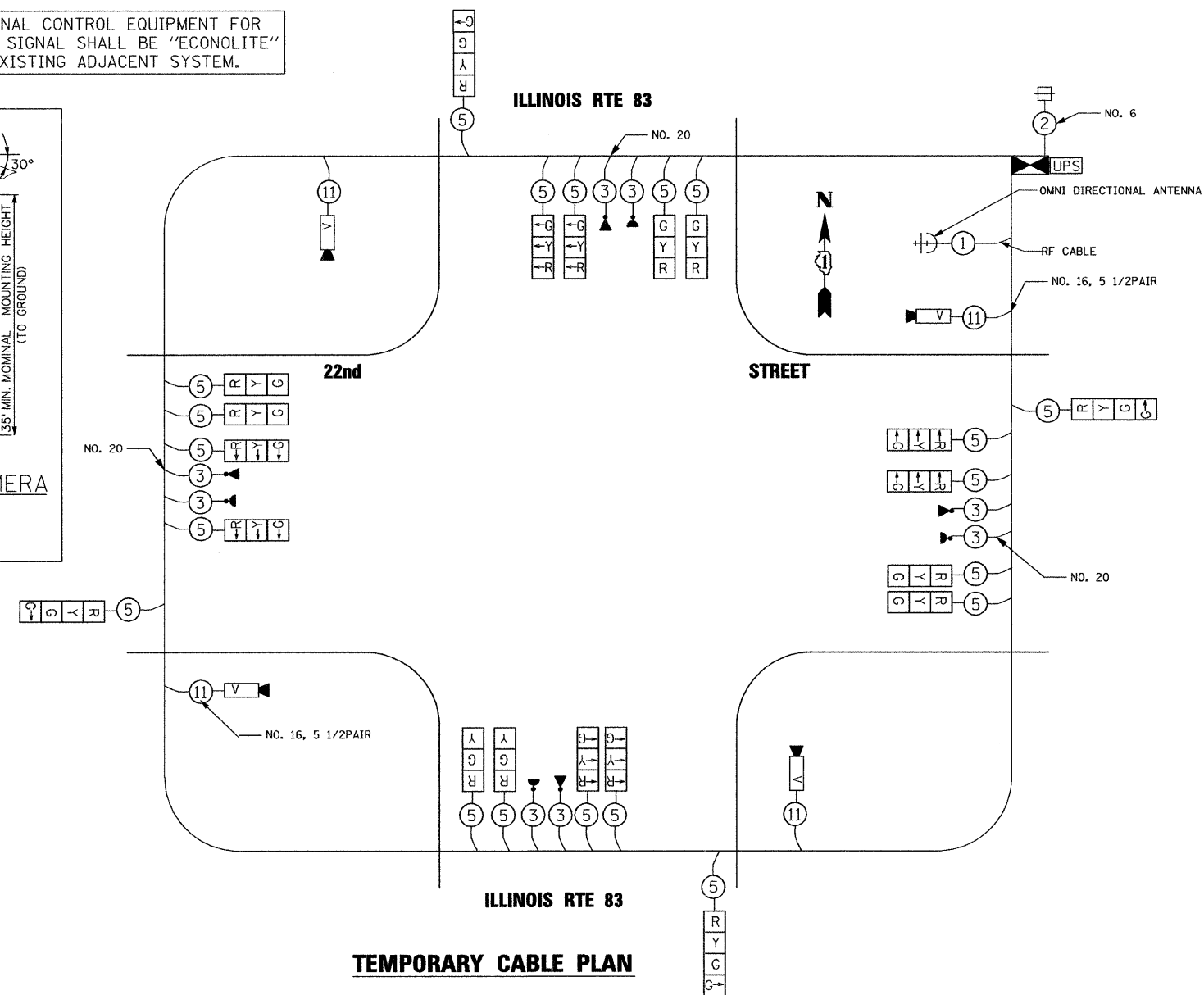
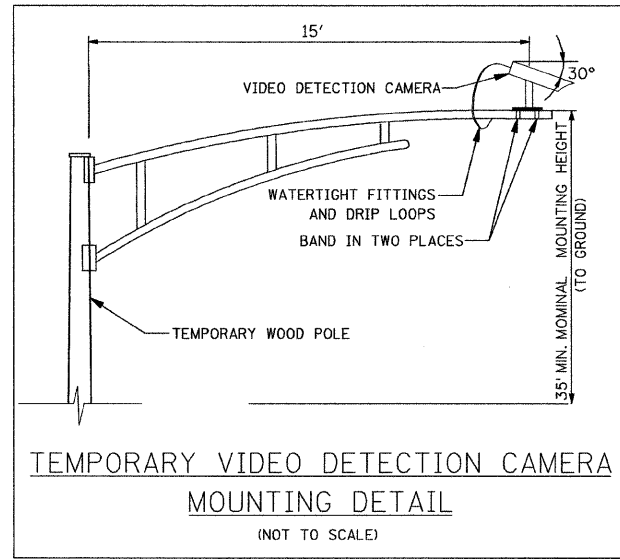
TEMPORARY CABLE DIAGRAM LEGEND

- R TEMPORARY TRAFFIC SIGNAL SECTION OR PEDESTRIAN SIGNAL SECTION 12" (300mm)
- ☒ TEMPORARY CONTROLLER CABINET
- 2 INDICATES NUMBER OF CONDUCTORS IN CABLE. ALL CONDUCTORS TO BE NUMBER 14 AWG WIRE UNLESS OTHERWISE NOTED.
- ☐ TEMPORARY SERVICE INSTALLATION
- ▲ EMERGENCY VEHICLE LIGHT DETECTOR
- CONFIRMATION BEACON
- PEDESTRIAN PUSHBUTTON DETECTOR
- ◻ VEHICLE DETECTOR, INDUCTION LOOP
- V VIDEO VEHICLE DETECTION CAMERA
- C CLOSED CIRCUIT TV
- T TELEPHONE CONNECTION
- + TEMPORARY RADIO INTERCONNECT
- UPS UNINTERRUPTIBLE POWER SUPPLY

NOTES

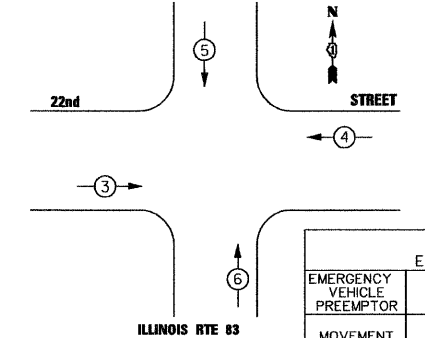
1. ONLY AN APPROVED IDOT ELECTRICAL SUBCONTRACTOR WILL BE PERMITTED TO INSTALL AND ADJUST VIDEO VEHICLE DETECTION SYSTEM AS REQUIRED BY STAGE/PHASE CHANGES.
2. FOR TEMPORARY TRAFFIC SIGNAL CONTROLLER PLATFORM DETAIL. SEE SHEET NO. 227

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS TEMPORARY SIGNAL SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.



- LEGEND**
- ◻ SINGLE ENTRY PHASE
 - ◻ DUAL ENTRY PHASE
 - ◻ OVERLAP
 - ◻ PEDESTRIAN PHASE
 - NUMBER REFERS TO ASSOCIATED PHASE

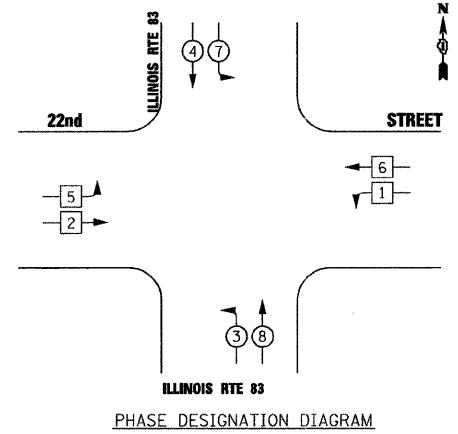
EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS

EMERGENCY VEHICLE PREEMPTOR	3	4	5	6
MOVEMENT	→	←	↓	↑

TEMPORARY CONTROLLER SEQUENCE



I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	WATTAGE			TOTAL WATTAGE
		INCAND.	L.E.D.	OPERATION	
SIGNAL (RED)	20	135	17	0.50	102
(YELLOW)	12	135	25	0.25	75
(GREEN)	12	135	15	0.25	45
ARROW	28	135	12	0.10	33.6
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		84		0.05	
TOTAL					415.6

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAY/DISTRICT 1
201 CENTER CT/SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY - CONTACT: DEB RANKIN
PHONE: 630-691-4379
COMPANY: COMMONWEALTH EDISON

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 USER NAME =
 PLOT DATE =
 PLOT TIME =



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DATE - 04/01/2010	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**22nd STREET AT ILLINOIS RTE 83
TEMPORARY TRAFFIC SIGNAL CABLE PLAN, AND
PHASE DESIGNATION DIAGRAM**

SCALE: N/A SHEET NO. 214C OF 362 SHEETS STA. TO STA.

F.A.J. RTE. 1453	SECTION 55WRS	COUNTY	TOTAL SHEETS 362	SHEET NO. 214C
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60D12	

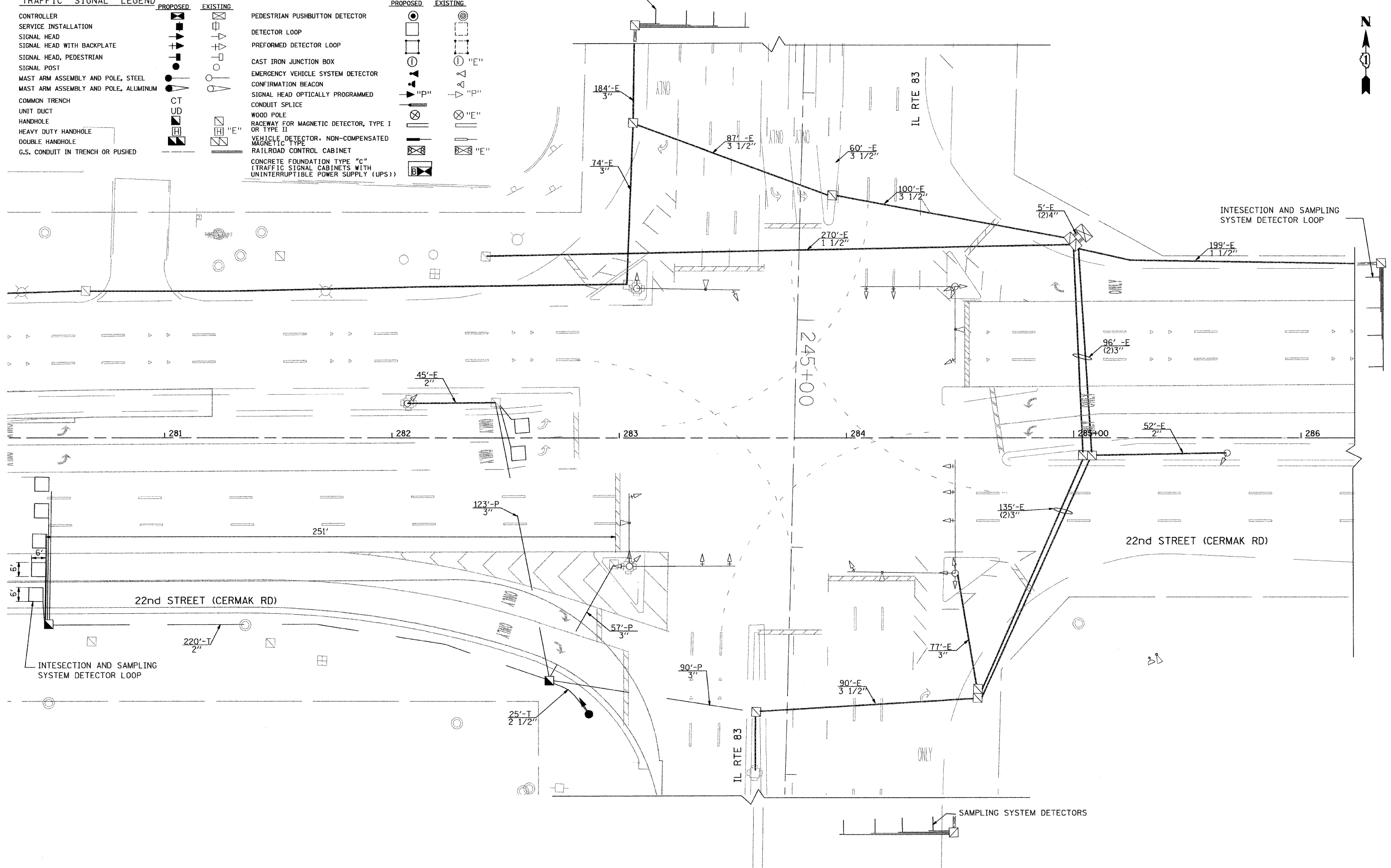
TTS63

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TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING		PROPOSED	EXISTING
CONTROLLER	[Symbol]	[Symbol]	PEDESTRIAN PUSHBUTTON DETECTOR	[Symbol]	[Symbol]
SERVICE INSTALLATION	[Symbol]	[Symbol]	DETECTOR LOOP	[Symbol]	[Symbol]
SIGNAL HEAD	[Symbol]	[Symbol]	PREFORMED DETECTOR LOOP	[Symbol]	[Symbol]
SIGNAL HEAD WITH BACKPLATE	[Symbol]	[Symbol]	CAST IRON JUNCTION BOX	[Symbol]	[Symbol]
SIGNAL HEAD, PEDESTRIAN	[Symbol]	[Symbol]	EMERGENCY VEHICLE SYSTEM DETECTOR	[Symbol]	[Symbol]
SIGNAL POST	[Symbol]	[Symbol]	CONFIRMATION BEACON	[Symbol]	[Symbol]
MAST ARM ASSEMBLY AND POLE, STEEL	[Symbol]	[Symbol]	SIGNAL HEAD OPTICALLY PROGRAMMED	[Symbol]	[Symbol]
MAST ARM ASSEMBLY AND POLE, ALUMINUM	[Symbol]	[Symbol]	CONDUIT SPLICE	[Symbol]	[Symbol]
COMMON TRENCH	[Symbol]	[Symbol]	WOOD POLE	[Symbol]	[Symbol]
UNIT DUCT	[Symbol]	[Symbol]	RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II	[Symbol]	[Symbol]
HANDHOLE	[Symbol]	[Symbol]	VEHICLE DETECTOR, NON-COMPENSATED MAGNETIC TYPE	[Symbol]	[Symbol]
HEAVY DUTY HANDHOLE	[Symbol]	[Symbol]	RAILROAD CONTROL CABINET	[Symbol]	[Symbol]
DOUBLE HANDHOLE	[Symbol]	[Symbol]	CONCRETE FOUNDATION TYPE "C" (TRAFFIC SIGNAL CABINETS WITH UNINTERRUPTIBLE POWER SUPPLY (UPS))	[Symbol]	[Symbol]
G.S. CONDUIT IN TRENCH OR PUSHED	[Symbol]	[Symbol]			

SAMPLING SYSTEM DETECTORS



FILE NAME = P:\2207\ME87081_22nd_Street\Cadd\Supp3\DI68012-SHT-TS06-IL83-01.dgn
 USER NAME = MLLNENGA
 MILLENNIA ENGINEERING

MILLENNIA ENGINEERING
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DATE - 04/01/2010	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**22nd STREET AT ILLINOIS RTE 83
TRAFFIC SIGNAL INSTALLATION PLAN**

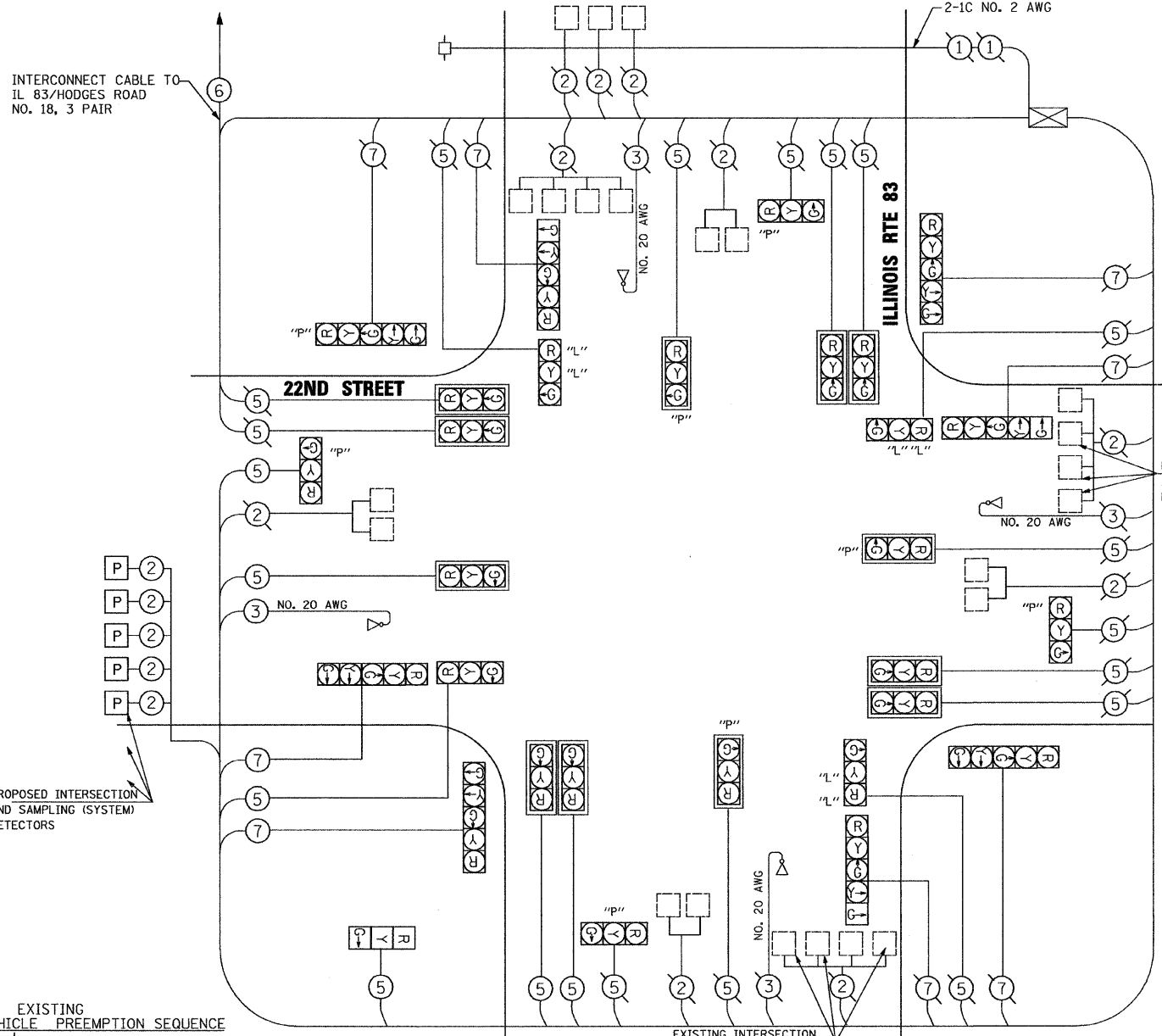
SCALE: 1"=20' SHEET NO. 2140 OF 362 SHEETS STA. TO STA.

F.A.U. RTE. 1453	SECTION 55WRS	COUNTY DUPAGE	TOTAL SHEETS 362	SHEET NO. 2140
CONTRACT NO. 60D12				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

TS61

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ITEM	UNIT	QUANTITY
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	220
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	25
CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	39
CONDUIT PUSHED, 3" DIA., GALVANIZED STEEL	FOOT	270
HANDHOLE	EACH	2
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	284
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	3371
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7C	FOOT	1121
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	3440
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
INDUCTIVE LOOP DETECTOR	EACH	5
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
PREFORMED DETECTOR LOOP	FOOT	255
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	1612
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	572
TEMPORARY TRAFFIC SIGNAL INTERCONNECT	EACH	1



EXISTING	PROPOSED	DESCRIPTION
		8" (200mm) TRAFFIC SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		VEHICLE DETECTOR, INDUCTION LOOP
		EMERGENCY VEHICLE LIGHT DETECTOR
		PUSHBUTTON DETECTOR
		RAILROAD CONTROL CABINET
		ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
		ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
		GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
		GROUND ROD AT POST OR MAST ARM POLE
		GROUND ROD AT ELECTRIC SERVICE INSTALLATION
		GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
		FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F & SM12F
		UNINTERRUPTIBLE POWER SUPPLY (UPS)
		PREFORMED LOOP DETECTION

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS SIGNAL SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

EXISTING CONTROLLER SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	1	2	3	4
MOVEMENT				

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE INCAND.	L.E.D.	OPERATION	
SIGNAL (RED)	29	135	17	0.50	246.5
(YELLOW)	29	135	25	0.25	181.3
(GREEN)	29	135	15	0.25	108.8
ARROW	16	135	12	0.10	19.2
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		84		0.05	
VIDEO VEH. SENSOR		15	15	1.00	
FLASHER				0.50	
TOTAL					655.7

FOUNDATION (DEPTH)	(FEET) (m)	CABLE SLACK	(FEET) (m)	VERTICAL	(FEET) (m)
TYPE A - POST	4, (1.2)	HANDHOLE	6.5, (2.0)	ALL FOUNDATION	1.0, (2.0)
D - CONTROLLER	4, (1.2)	DOUBLE HANDHOLE	13, (4.0)	MAST ARM (L) POLE	20'+L-2 = (6m+L-0.6m)=
E - M. ARM POLE	()	SIGNAL POST	2, (1.0)	BRACKET MOUNTED	13, (4.0)
24" (600mm)	10, (3.0)	CONTROLLER CAB.	1, (0.5)	PED. PUSHBUTTON	4, (1.2)
30" (600mm)	15, (4.5)	FIBER OPTIC	13, (4.0)	ELECTRIC SERVICE	13.5, (4.1)
42"	15, (4.5)	ELECTRIC SERVICE	1, (0.5)	SERVICE TO GROUND	13, (4.1)
		GROUND CABLE	1, (0.5)	POST MOUNTED	6, (1.8)

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	2	3
B	4	5
C	6	8
D	8	1

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAY/DISTRICT 1
201 CENTER CT/SCHAUMBURG, IL 60196-1096
ENERGY SUPPLY - CONTACT: DEB RANKIN
PHONE: 630-691-4379
COMPANY: COMMONWEALTH EDISON

DESIGNED - TVN	REVISED -
DRAWN - TVN	REVISED -
CHECKED - RPD	REVISED -
DATE - 04/01/2010	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

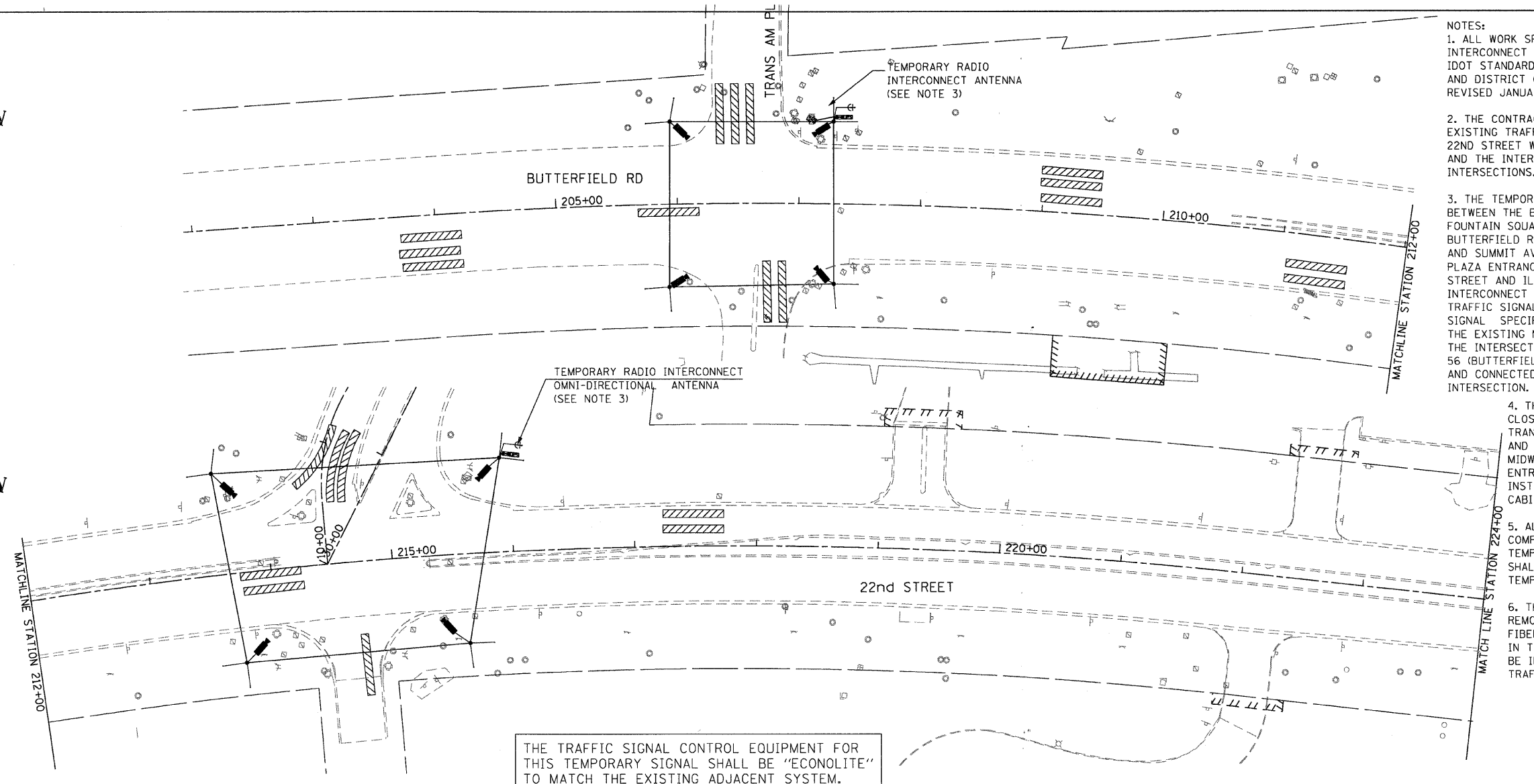
**22ND STREET AT ILLINOIS RTE 83
CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND SCHEDULE OF QUANTITIES**

SCALE: N/A SHEET NO.1938 OF 362 SHEETS STA. TO STA.

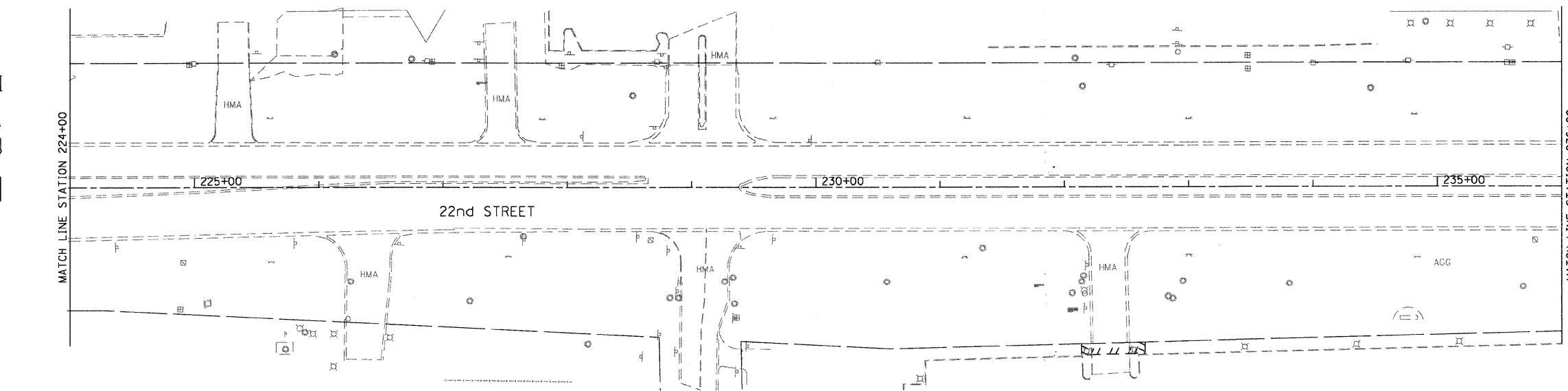
F.A.U. RTE. 1453	SECTION 55WRS	COUNTY DUPAGE	TOTAL SHEETS 362	SHEET NO. 214E
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				CONTRACT NO. 60D12

FILE NAME = PA2007ME87081.22nd-IL-55wrs-Cadd\Supp3\0180012-SHT-1938-IL83-02.dgn
USER NAME = MILLIENIA
DATE = 04/01/2010

- NOTES:
1. ALL WORK SPECIFIED IN THE TEMPORARY TRAFFIC SIGNAL INTERCONNECT PLAN SHALL BE COMPLETED ACCORDING TO IDOT STANDARD SPECIFICATIONS ADOPTED JANUARY 1, 2007, AND DISTRICT ONE TRAFFIC SIGNAL SPECIFICATIONS REVISED JANUARY 1, 2007.
 2. THE CONTRACT SHALL BE RESPONSIBLE FOR MAINTAINING THE EXISTING TRAFFIC SIGNAL INSTALLATION AT BUTTERFIELD RD AND 22ND STREET WITH TRANS AM PLAZA ENTRANCE AND MIDWEST RD AND THE INTERCONNECT SYSTEM BETWEEN THE TWO INTERSECTIONS.
 3. THE TEMPORARY TRAFFIC SIGNAL INTERCONNECT SYSTEM BETWEEN THE BUTTERFIELD RD INTERSECTIONS WITH FOUNTAIN SQUARE DR., TRANS AM PLAZA ENTRANCE, BUTTERFIELD RD AND 22ND STREET, IL RTE (BUTTERFIELD RD AND SUMMIT AVE, MIDWEST RD, 22ND STREET AND OAKBROOK PLAZA ENTRANCE, 22ND STREET AND PARKVIEW DR, 22ND STREET AND IL ROUTE 83 INTERSECTION SHALL BE WIRELESS INTERCONNECT ACCORDING TO THE TEMPORARY TRAFFIC SIGNAL SPECIFICATION OF THE DISTRICT ONE TRAFFIC SIGNAL SPECIFICATIONS. THE ANTENNA SHALL BE PLACED ON THE EXISTING MAST ARM ASSEMBLY AND POLE AS INDICATED AT THE INTERSECTIONS OF FOUNTAIN SQUARE DR, ILLINOIS ROUTE 56 (BUTTERFIELD RD)/SUMMIT AVE. AND ILLINOIS ROUTE 83 AND CONNECTED TO THE EXISTING CONTROLLER AT EACH INTERSECTION.
 4. THE ANTENNA SHALL BE PLACED ON WOOD POLE CLOSEST TO THE TEMPORARY CONTROLLER AT TRANS AM PLAZA DR AND 22ND STREET, BUTTERFIELD RD AND 22ND STREET, BUTTERFIELD RD AND SUMMIT AVE, MIDWEST ROAD AND 22ND STREET, OAKBROOK PLAZA ENTRANCE INTERSECTIONS. ANTENNA RF CABLE SHALL BE INSTALLED BETWEEN THE ANTENNA AND THE CONTROLLER CABINET.
 5. ALL NECESSARY CABLES, ANTENNA, AND OTHER COMPONENTS REQUIRED FOR FULLY FUNCTIONAL TEMPORARY RADIO INTERCONNECT SYSTEM SHALL BE INCLUDED AND PAID FOR AS THE ITEM TEMPORARY TRAFFIC SIGNAL INTERCONNECT.
 6. THE ANTENNA AND ALL CABLES SHALL BE REMOVED UPON COMPLETION OF THE PROPOSED FIBER OPTIC INTERCONNECT SYSTEM. ANY HOLES IN THE MAST ARMS SHALL BE PLUGGED. THIS SHALL BE INCLUDED IN THE PAY ITEM OF TEMPORARY TRAFFIC SIGNAL INTERCONNECT.



THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS TEMPORARY SIGNAL SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.



- LEGEND
- ☒ EXISTING CONTROLLER
 - ☒ EXISTING MASTER CONTROLLER
 - ☒ EXISTING DOUBLE HANDHOLE
 - ☒ EXISTING HANDHOLE
 - ☒ "E" HEAVY DUTY HANDHOLE
 - G.S. CONDUIT IN TRENCH OR PUSHED
 - ☐ INTERSECTION AND SAMPLING (SYSTEM) DETECTOR LOOP
 - ☐ TELEPHONE
 - ⚡ TEMPORARY RADIO INTERCONNECT ANTENNA
 - ⊙ TEMPORARY WOOD POLE

FILE NAME: I:\2007\me07081\22nd-street\cadd\shs\0160D12-SHT-TINTIC01.dgn
 PLOT SCALE: 50.0000 / 1" = 50'
 USER NAME: Millennium Engineering


MILLENNIA ENGINEERING
 200 22ND STREET, SUITE 216, LOMBARD, IL 60148
 630.705.8110 voice, 630.839.2566 fax
 www.millenniaeng.com

DESIGNED - TVN	REVISED -
DRAWN - TVN	REVISED -
CHECKED - RPD	REVISED -
DATE - 7/24/2009	REVISED -

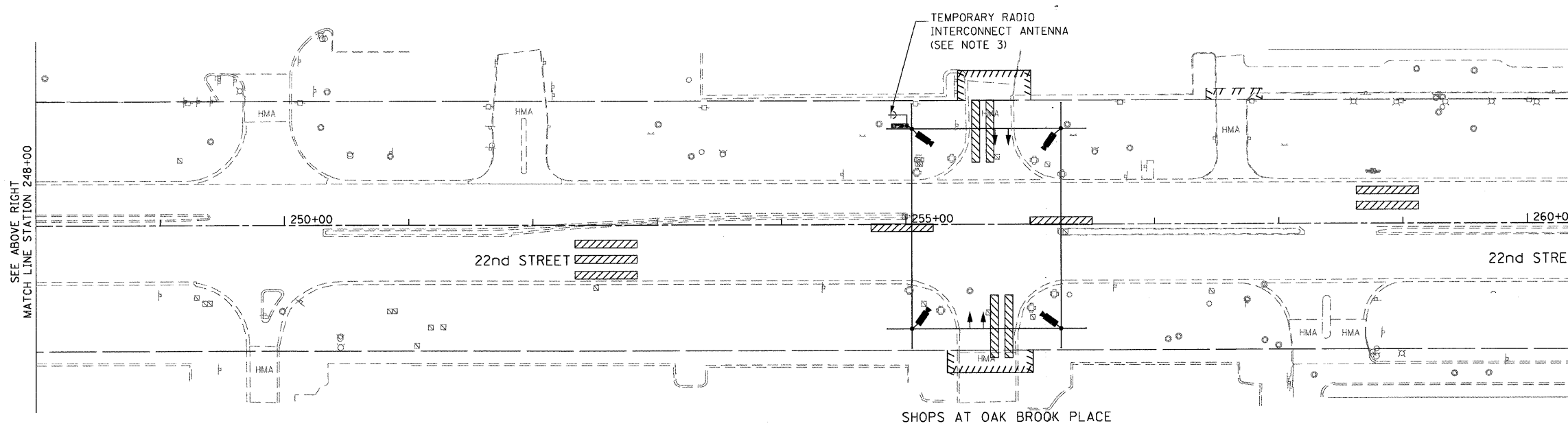
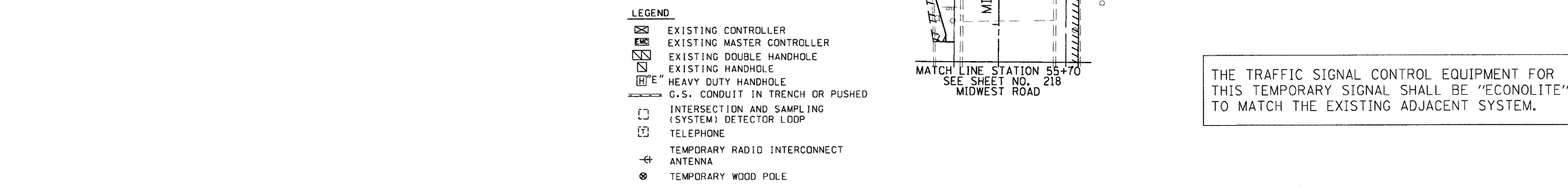
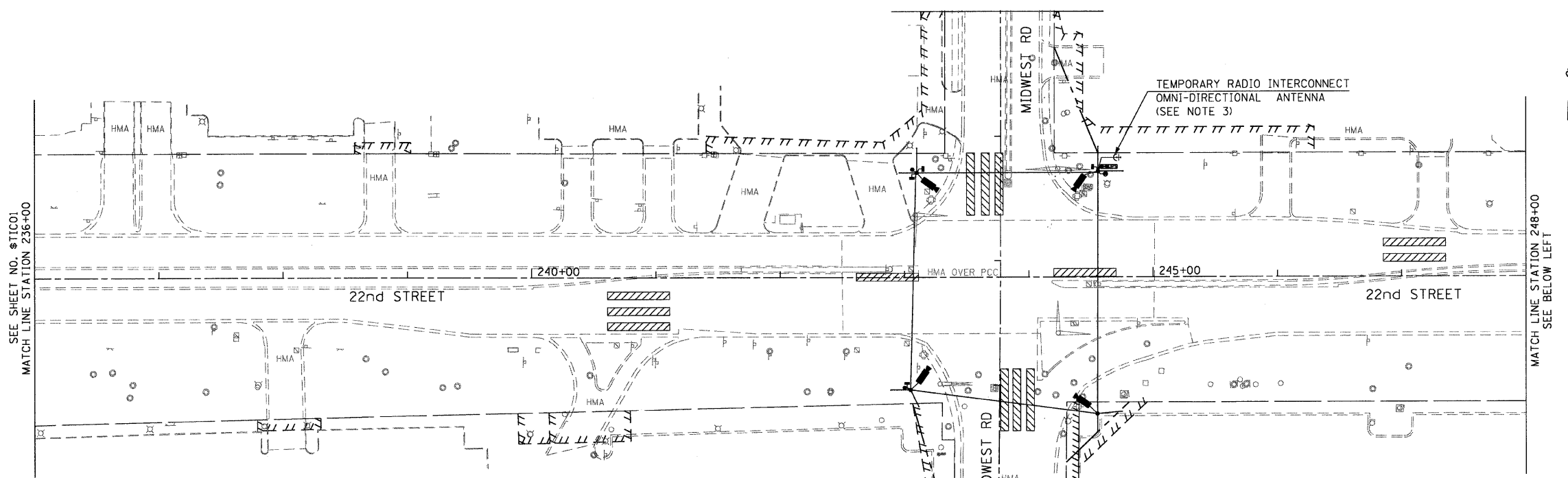
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

22nd STREET
TEMPORARY SYSTEM INTERCONNECT
 SCALE: 1"=50' SHEET NO#TIC00F 362 SHEETS STA. 203+00 TO STA. 236+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1453	55WRS	DUPAGE	362	215
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60D12	

TIC-01

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- LEGEND**
- ☒ EXISTING CONTROLLER
 - ☒ EXISTING MASTER CONTROLLER
 - ☒ EXISTING DOUBLE HANDHOLE
 - ☒ EXISTING HANDHOLE
 - ☒ "E" HEAVY DUTY HANDHOLE
 - G.S. CONDUIT IN TRENCH OR PUSHED
 - ☐ INTERSECTION AND SAMPLING (SYSTEM) DETECTOR LOOP
 - ☐ TELEPHONE
 - ⚡ TEMPORARY RADIO INTERCONNECT ANTENNA
 - ⊙ TEMPORARY WOOD POLE

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS TEMPORARY SIGNAL SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.



FILE NAME: \\p007\me07061_22nd_street\cadd\shops\0160012-SHT-TINTC02.dgn
 PLOT SCALE: 1"=50'
 USER NAME: Millennium Engineering

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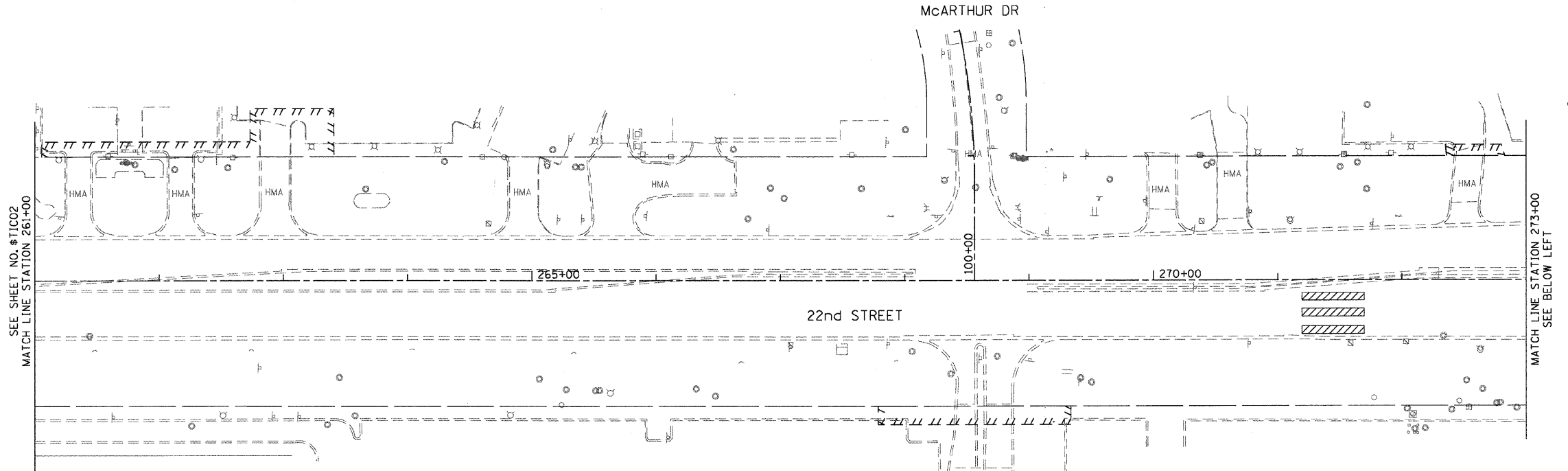
DESIGNED - TVN	REVISED -
DRAWN - TVN	REVISED -
CHECKED - RPD	REVISED -
DATE - 7/24/2009	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

22nd STREET	
TEMPORARY SYSTEM INTERCONNECT	
SCALE: 1"=50'	TO STA.
SHEET NO. TIC00F	362 SHEETS

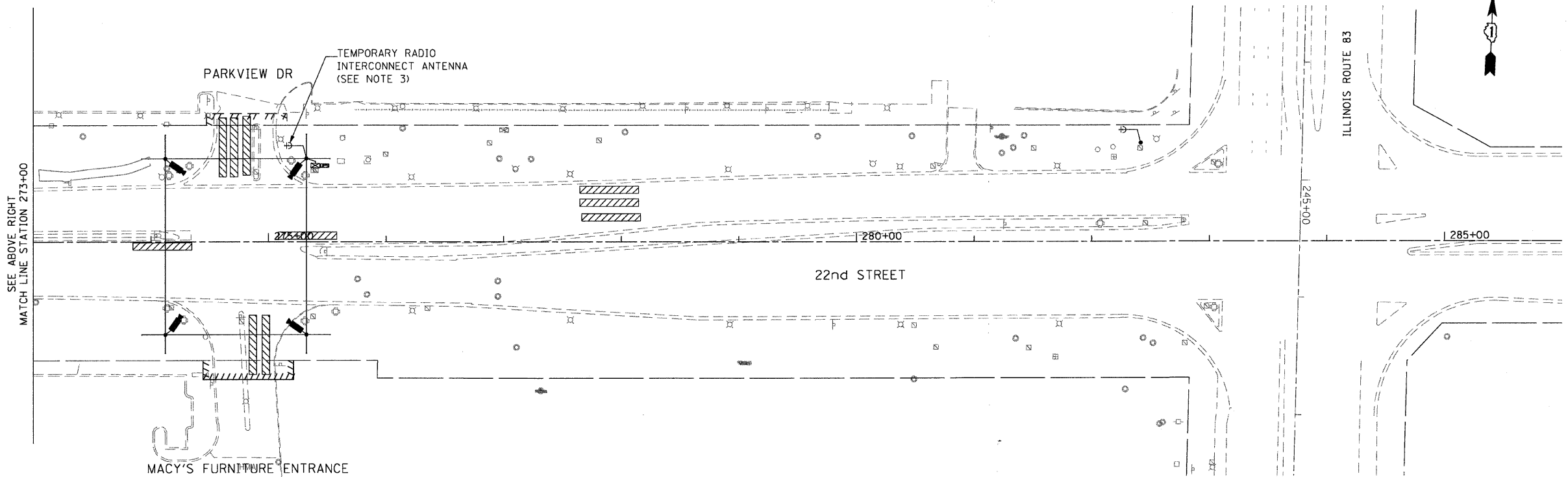
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1453	55WRS	DUPAGE	362	216
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60D12	

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- LEGEND**
- EXISTING CONTROLLER
 - EXISTING MASTER CONTROLLER
 - EXISTING DOUBLE HANDHOLE
 - EXISTING HANDHOLE
 - HEAVY DUTY HANDHOLE
 - G.S. CONDUIT IN TRENCH OR PUSHED
 - INTERSECTION AND SAMPLING (SYSTEM) DETECTOR LOOP
 - TELEPHONE
 - TEMPORARY RADIO INTERCONNECT ANTENNA
 - TEMPORARY WOOD POLE

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS TEMPORARY SIGNAL SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.



FILE NAME : S:\2007\me\7081.22nd.st\east\cadd\shs\0160012-SHT-TINTC03.dgn
 PLOT SCALE : 5/8"=1'-0"
 USER NAME : Millennium Engineering



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DRAWN - TVN	REVISED -
CHECKED - RPD	REVISED -
DATE - 7/24/2009	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

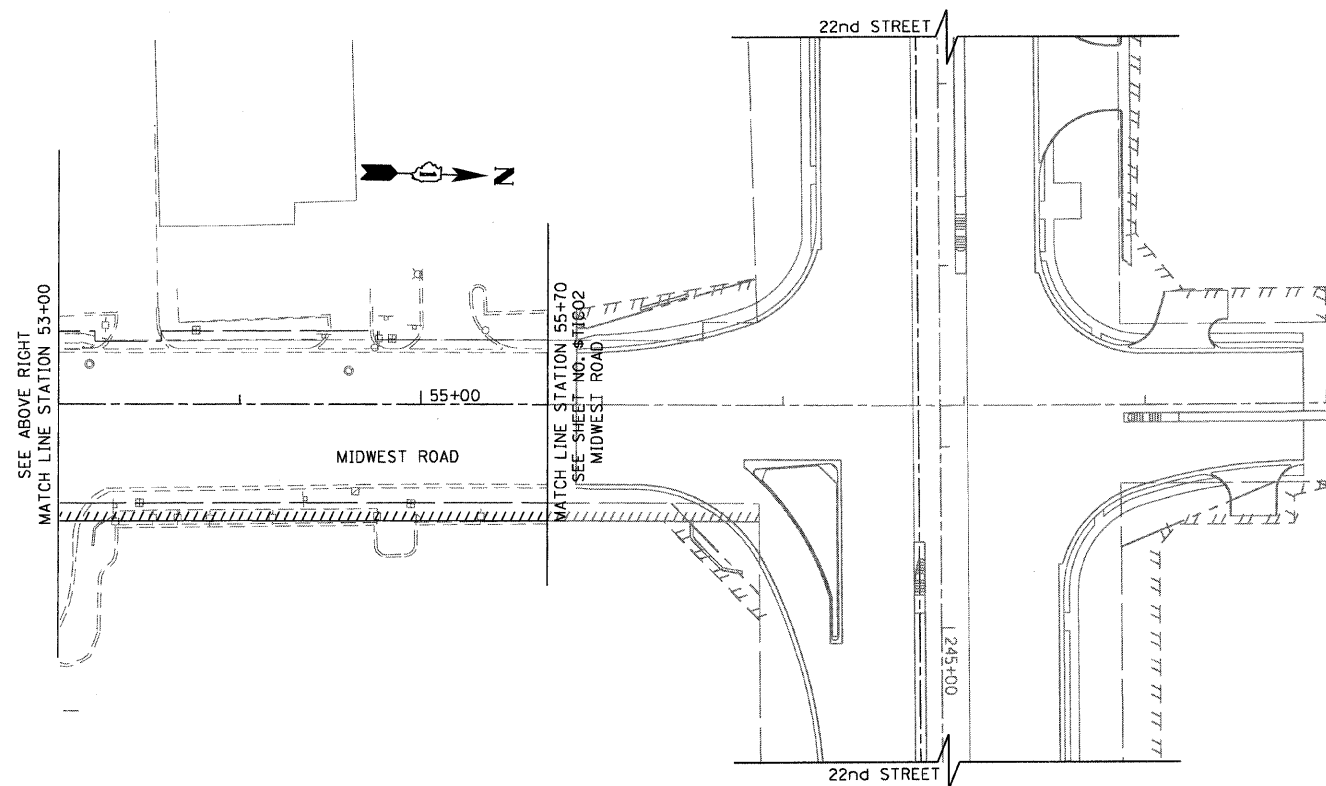
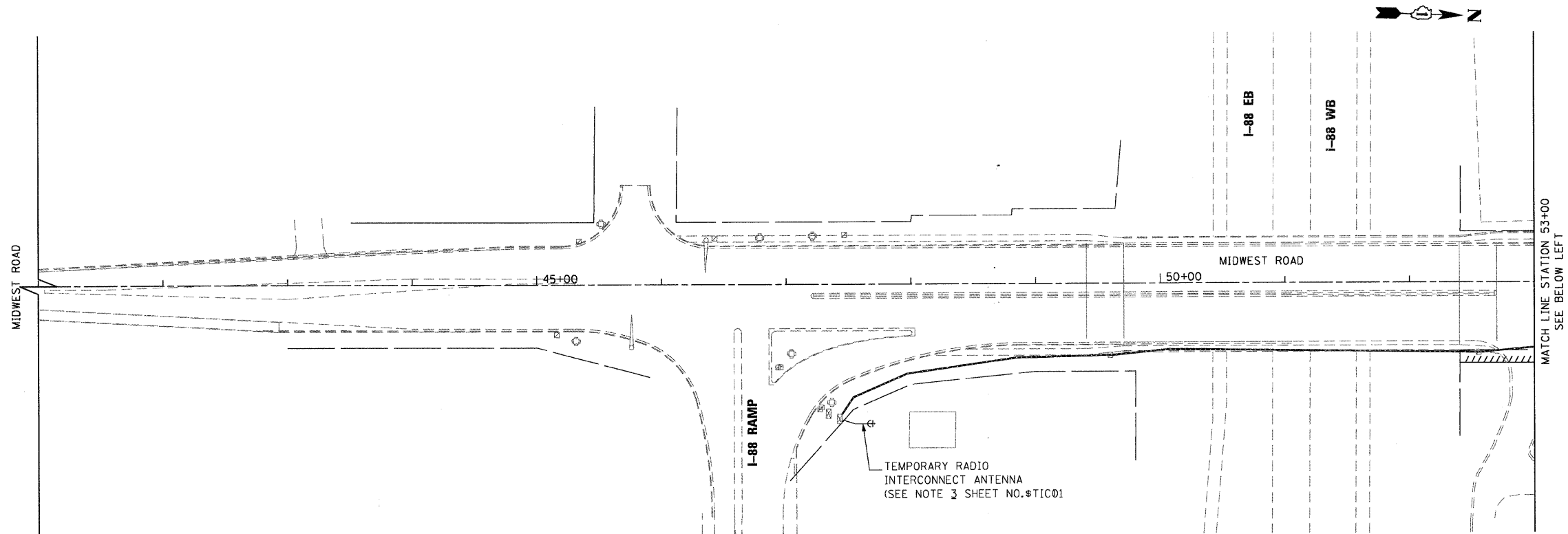
**22nd STREET
TEMPORARY SYSTEM INTERCONNECT**

SCALE: 1"=50' SHEET NO 01C00F 362 SHEETS STA. 261+00 TO STA. 285+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1453	55WRS	DUPAGE	362	217
CONTRACT NO. 60D12				

FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT

pc:\2007\me\7081.22nd.st\east\cadd\shs\0160012-SHT-TINTC03.dgn



- LEGEND**
- ☒ EXISTING CONTROLLER
 - ☒ EXISTING MASTER CONTROLLER
 - ☒ EXISTING DOUBLE HANDHOLE
 - ☒ EXISTING HANDHOLE
 - ☒ HEAVY DUTY HANDHOLE
 - ☒ G.S. CONDUIT IN TRENCH OR PUSHED
 - ☒ INTERSECTION AND SAMPLING (SYSTEM) DETECTOR LOOP
 - ☒ TELEPHONE
 - ⊕ TEMPORARY RADIO INTERCONNECT ANTENNA
 - ⊙ TEMPORARY WOOD POLE

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS TEMPORARY SIGNAL SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

FILE NAME : p:\2007\me07081.22nd.street\cadd\shs\0160012-SHT-TINTC04.dgn
 USER NAME : Millennium Engineering

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DESIGNED -	IVN	REVISED -	---
DRAWN -	IVN	REVISED -	---
CHECKED -	RPD	REVISED -	---
DATE -	7/24/2009	REVISED -	---

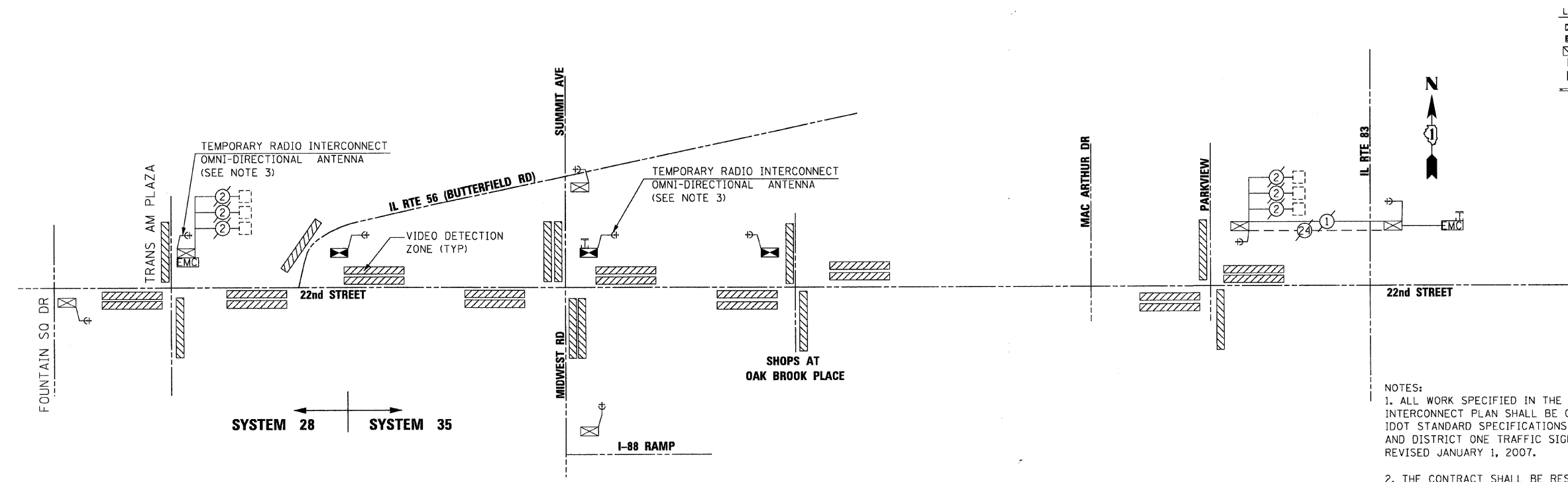
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MIDWEST ROAD TEMPORARY SYSTEM INTERCONNECT	
SCALE: 1"=50'	SHEET NO.#TIC04 OF 362 SHEETS
STA. 41+00	TO STA. 65+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1453	55WRS	DUPAGE	362	218
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60D12	

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THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS TEMPORARY SIGNAL SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.



- LEGEND**
- EXISTING CONTROLLER
 - EXISTING MASTER CONTROLLER
 - EXISTING DOUBLE HANDHOLE
 - EXISTING HANDHOLE
 - HEAVY DUTY HANDHOLE
 - G.S. CONDUIT IN TRENCH OR PUSHED
 - INTERSECTION AND SAMPLING (SYSTEM) DETECTOR LOOP
 - TELEPHONE
 - TEMPORARY RADIO INTERCONNECT ANTENNA
 - TEMPORARY WOOD POLE

- NOTES:**
1. ALL WORK SPECIFIED IN THE TEMPORARY TRAFFIC SIGNAL INTERCONNECT PLAN SHALL BE COMPLETED ACCORDING TO IDOT STANDARD SPECIFICATIONS ADOPTED JANUARY 1, 2007, AND DISTRICT ONE TRAFFIC SIGNAL SPECIFICATIONS REVISED JANUARY 1, 2007.
 2. THE CONTRACT SHALL BE RESPONSIBLE FOR MAINTAINING THE EXISTING TRAFFIC SIGNAL INSTALLATIONS AT BUTTERFIELD RD/ AND FOUNTAIN SQUARE DR, BUTTERFIELD RD/SUMMIT AVE, MIDWEST RD/ I-88 RAMP, 22ND STREET/IL ROUTE 83 THE INTERCONNECT SYSTEM BETWEEN THE INTERSECTIONS.

FILE NAME = P:\2007\me07081_22nd_street\cadd\shs\0160012-SHT-TINTC05-Schematics.dgn
 USER NAME = Millennium_Engineering



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 630.705.0110 voice, 630.839.2566 fax
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DATE - 7/24/2009	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

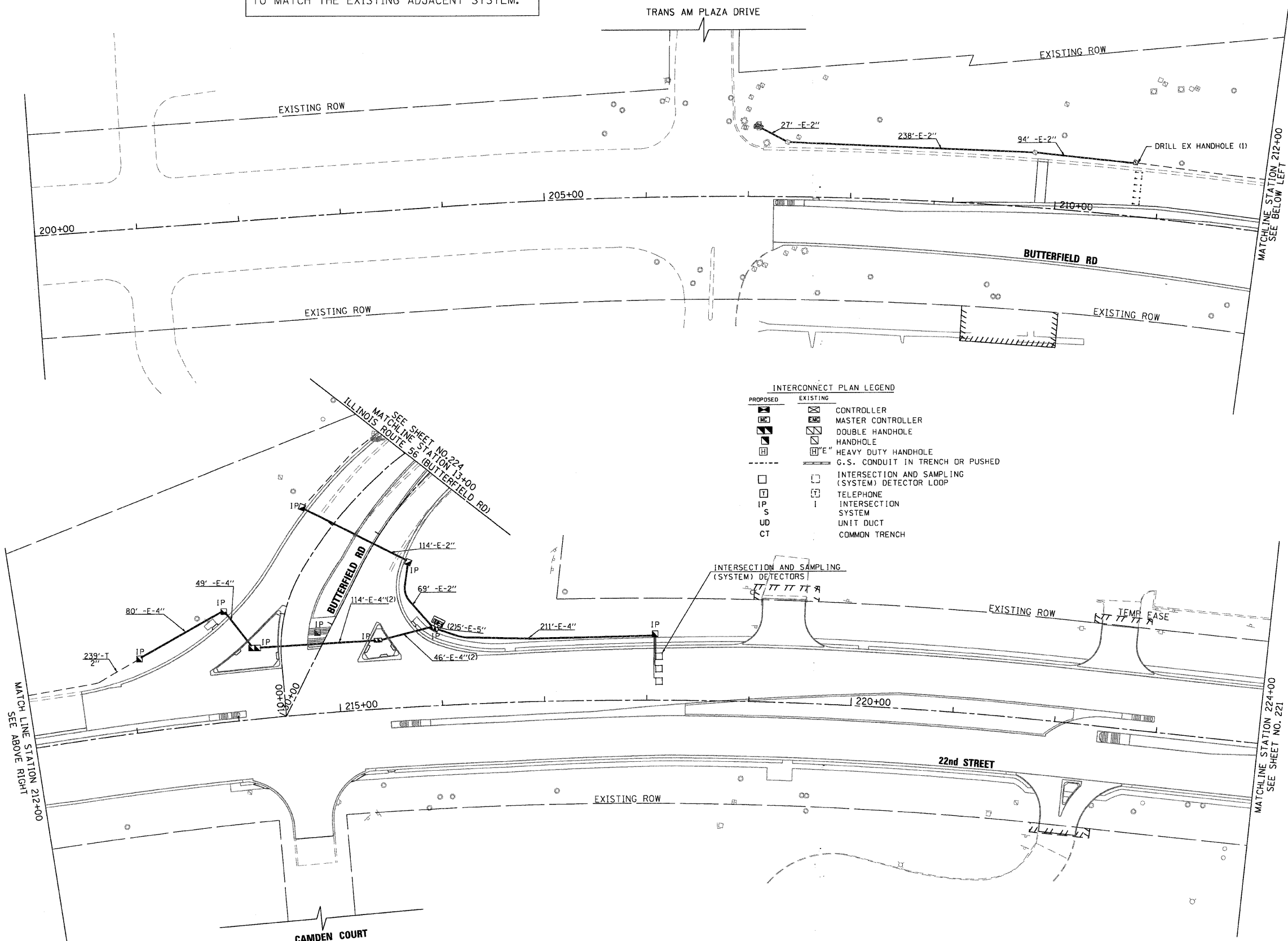
22nd STREET
TEMPORARY INTERCONNECT SCHEMATIC

SCALE: NONE SHEET NO. 016 OF 362 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1453	55WRS	DUPAGE	362	219
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60D12	

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THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS SYSTEM SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.



INTERCONNECT PLAN LEGEND

PROPOSED	EXISTING	DESCRIPTION
[Symbol]	[Symbol]	CONTROLLER
[Symbol]	[Symbol]	MASTER CONTROLLER
[Symbol]	[Symbol]	DOUBLE HANDHOLE
[Symbol]	[Symbol]	HANDHOLE
[Symbol]	[Symbol]	HEAVY DUTY HANDHOLE
[Symbol]	[Symbol]	G.S. CONDUIT IN TRENCH OR PUSHED
[Symbol]	[Symbol]	INTERSECTION AND SAMPLING (SYSTEM) DETECTOR LOOP
[Symbol]	[Symbol]	TELEPHONE
[Symbol]	[Symbol]	INTERSECTION SYSTEM
[Symbol]	[Symbol]	UNIT DUCT
[Symbol]	[Symbol]	COMMON TRENCH



FILE NAME: P:\2207\me07081.22nd.stree\cadd\Shs\DI60D12-SHT-INTC01.dgn
 USER: ME
 MILLENNIA ENGINEERING

ME
 200 22ND Street, Suite 216, Lombard, IL 60148
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MILLENNIA ENGINEERING

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DRAWN	TVN	REVISED	-
CHECKED	RPD	REVISED	-
DATE	7/24/2009	REVISED	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**22nd STREET
 SYSTEM INTERCONNECT PLAN**

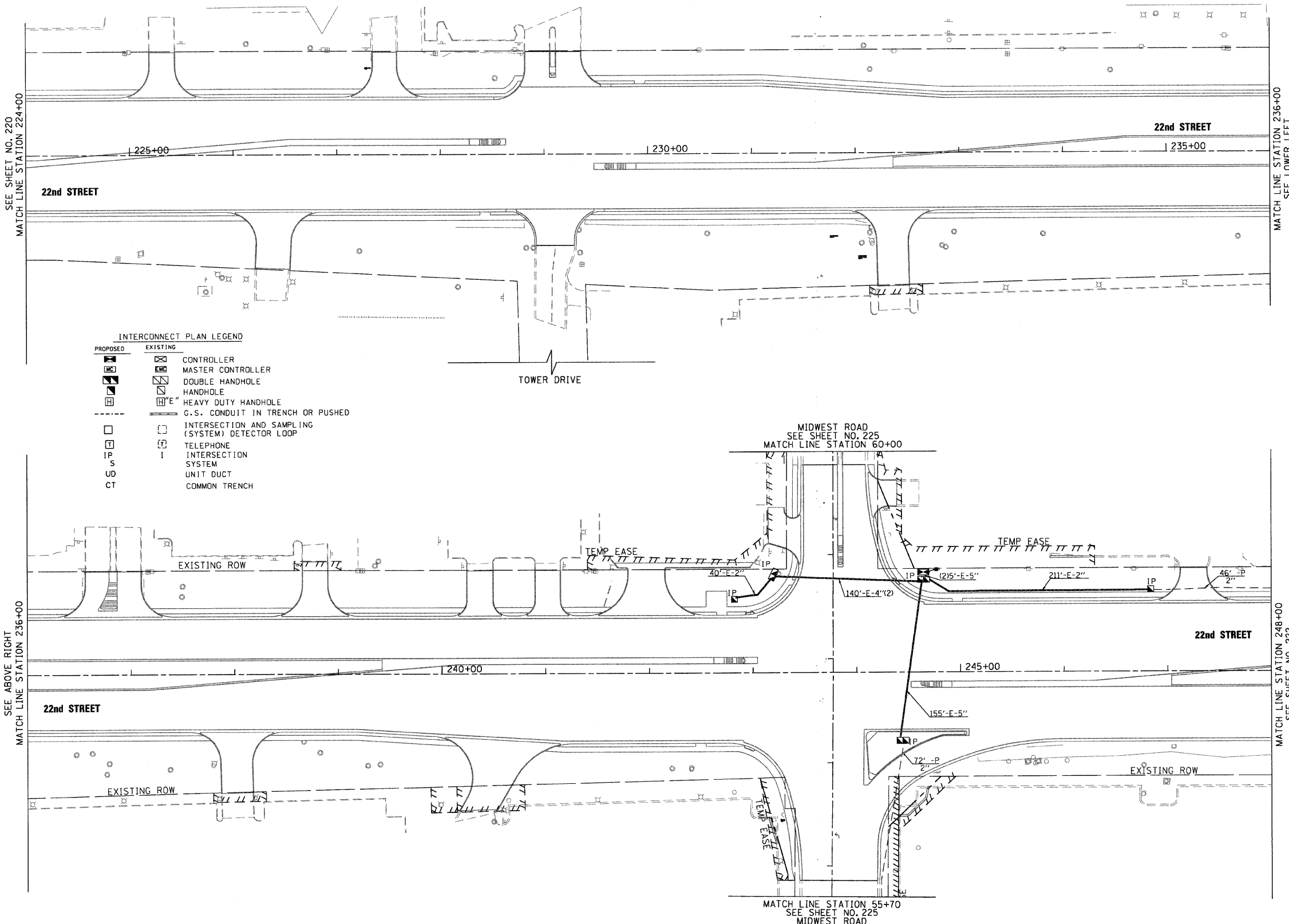
SCALE: 1"=50' SHEET NO. 220 OF 362 SHEETS STA. 200+00 TO STA. 224+00

F.A.U. RITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1453	55WRS	DUPAGE	362	220
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60D12	

IC01

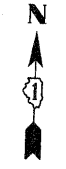
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THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS SYSTEM SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.



INTERCONNECT PLAN LEGEND

PROPOSED	EXISTING	DESCRIPTION
[Symbol]	[Symbol]	CONTROLLER
[Symbol]	[Symbol]	MASTER CONTROLLER
[Symbol]	[Symbol]	DOUBLE HANDHOLE
[Symbol]	[Symbol]	HANDHOLE
[Symbol]	[Symbol]	HEAVY DUTY HANDHOLE
[Symbol]	[Symbol]	G.S. CONDUIT IN TRENCH OR PUSHED
[Symbol]	[Symbol]	INTERSECTION AND SAMPLING (SYSTEM) DETECTOR LOOP
[Symbol]	[Symbol]	TELEPHONE
[Symbol]	[Symbol]	INTERSECTION SYSTEM
[Symbol]	[Symbol]	UNIT DUCT
[Symbol]	[Symbol]	COMMON TRENCH



FILE NAME: P:\2007\me07081\22nd.stree\cadd\shrs\DI60D12-SHT-INTC02.dgn
 USER NAME: Millennium Engineering

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DESIGNED - TVN	REVISED -
DRAWN - TVN	REVISED -
CHECKED - RPD	REVISED -
DATE - 7/24/2009	REVISED -

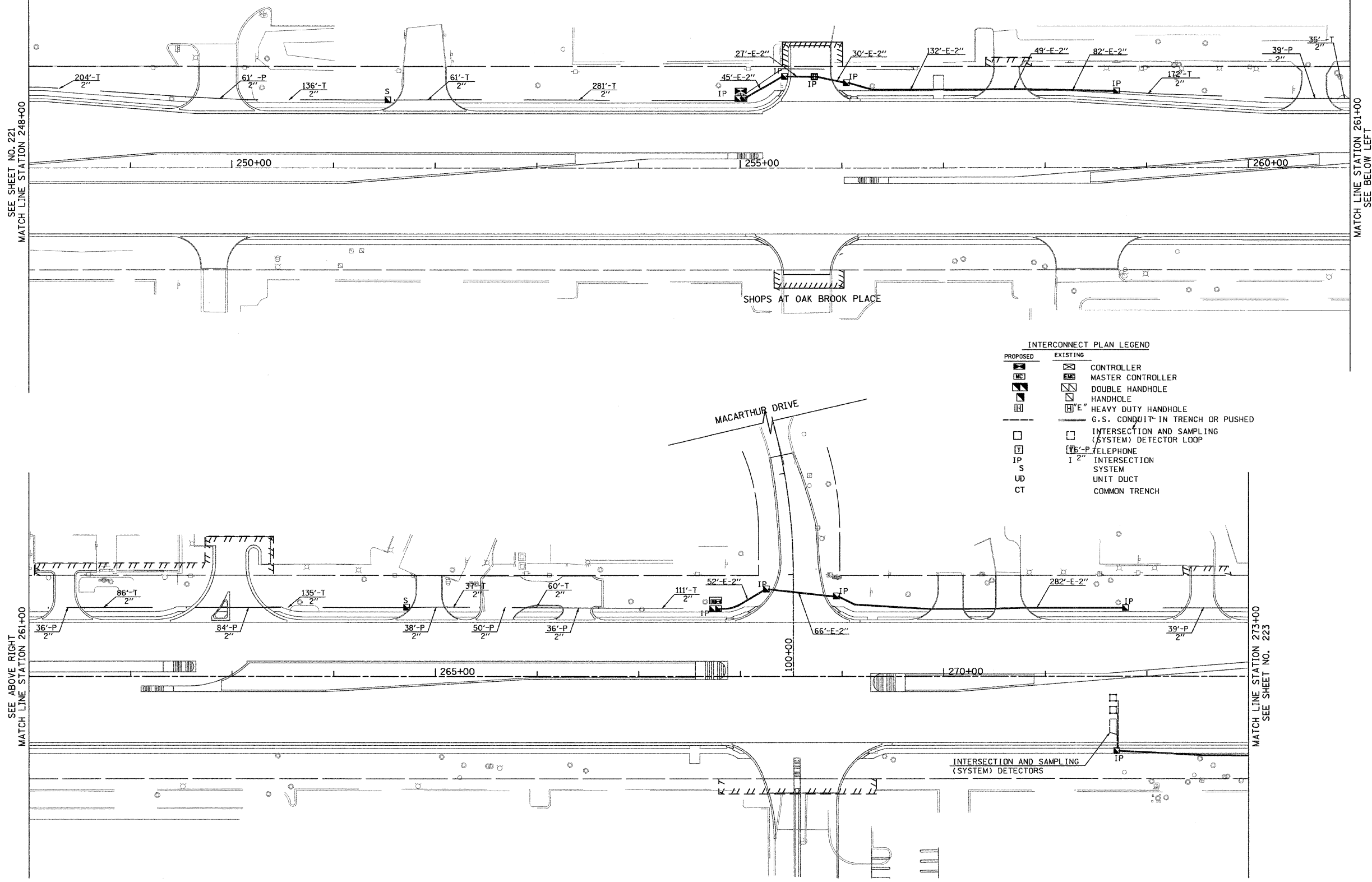
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**22nd STREET
 SYSTEM INTERCONNECT PLAN**
 SCALE: 1"=50' SHEET NO.221 OF 362 SHEETS STA. 224+00 TO STA. 248+00

F.A.U. R.F.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1453	55WRS	DUPAGE	362	221
CONTRACT NO. 60D12			IC-02	

FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT
 P:\2007\me07081\22nd.stree\cadd\shrs\DI60D12-SHT-INTC02.dgn

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS SYSTEM SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.



INTERCONNECT PLAN LEGEND

PROPOSED	EXISTING	DESCRIPTION
[Symbol]	[Symbol]	CONTROLLER
[Symbol]	[Symbol]	MASTER CONTROLLER
[Symbol]	[Symbol]	DOUBLE HANDHOLE
[Symbol]	[Symbol]	HANDHOLE
[Symbol]	[Symbol]	HEAVY DUTY HANDHOLE
[Symbol]	[Symbol]	G.S. CONDUIT IN TRENCH OR PUSHED
[Symbol]	[Symbol]	INTERSECTION AND SAMPLING (SYSTEM) DETECTOR LOOP
[Symbol]	[Symbol]	TELEPHONE
[Symbol]	[Symbol]	INTERSECTION SYSTEM
[Symbol]	[Symbol]	UNIT DUCT
[Symbol]	[Symbol]	COMMON TRENCH



SEE SHEET NO. 221
MATCH LINE STATION 248+00

MATCH LINE STATION 261+00
SEE BELOW LEFT

SEE ABOVE RIGHT
MATCH LINE STATION 261+00

MATCH LINE STATION 273+00
SEE SHEET NO. 223

FILE NAME = P:\2007\ME07081_22nd_Street\Cadd\Supp3\0168012-SHT-INTC03.dgn
USER NAME = MILLENNIA_ENGINEERING

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DRAWN - TVN	REVISED -
CHECKED - RPD	REVISED -
DATE - 04/01/2010	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

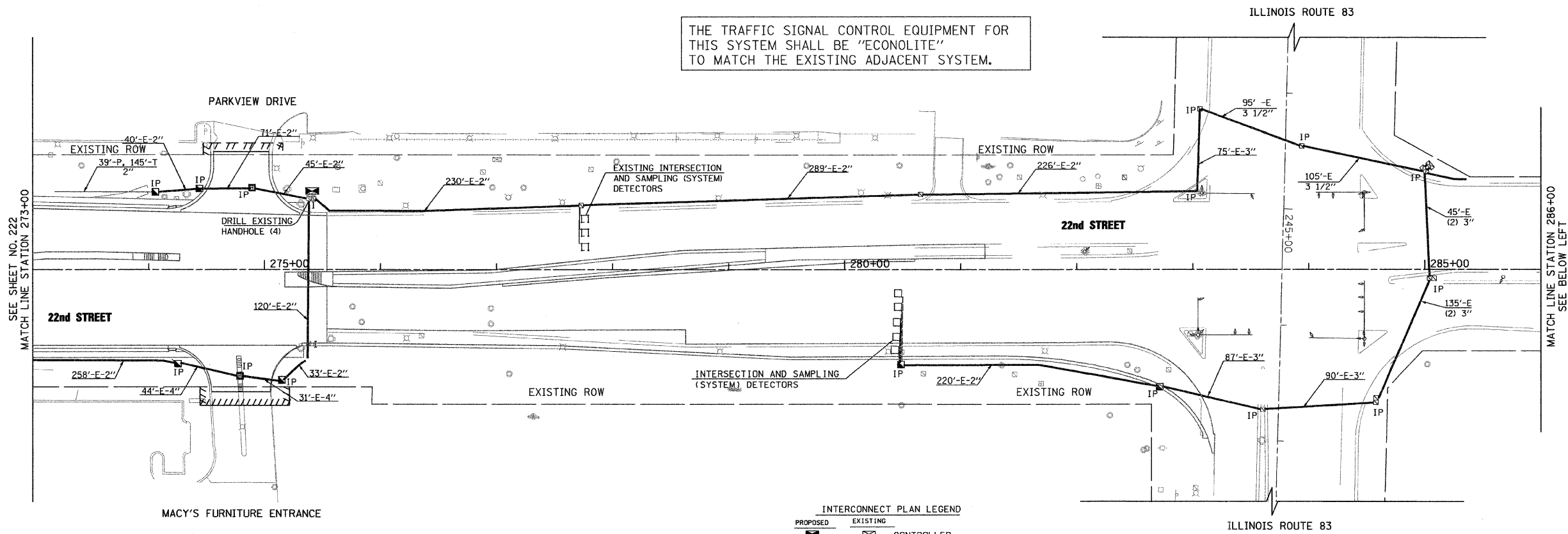
**22nd STREET
SYSTEM INTERCONNECT PLAN**
 SCALE: 1"=50' SHEET NO.222 OF 362 SHEETS STA. 248+00 TO STA. 273+00

F.A.U. RTE. 1453	SECTION 55WRS	COUNTY	TOTAL SHEETS 362	SHEET NO. 222
CONTRACT NO. 60D12				

IC-03

FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT
 P:\2007\ME07081_22nd_Street\Cadd\Supp3\0168012-SHT-INTC03.dgn

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS SYSTEM SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.



INTERCONNECT PLAN LEGEND

PROPOSED	EXISTING	DESCRIPTION
		CONTROLLER
		MASTER CONTROLLER
		DOUBLE HANDHOLE
		HANDHOLE
		HEAVY DUTY HANDHOLE
		G.S. CONDUIT IN TRENCH OR PUSHED
		INTERSECTION AND SAMPLING (SYSTEM) DETECTOR LOOP
		TELEPHONE
		INTERSECTION SYSTEM
		UNIT DUCT
		COMMON TRENCH

FILE NAME = P:\2007\ME07081.22nd_Street\Cadd\Supp3\DI60D12-SHT-INTC04.dgn
 USER NAME = MILLENNIA ENGINEERING



200 22ND Street, Suite 216, Lombard, IL 60148
 630.785.0110 voice, 630.833.2566 fax
 www.millenniaeng.com
MILLENNIA ENGINEERING

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DRAWN - TVN	REVISED -
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DATE - 04/01/2010	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

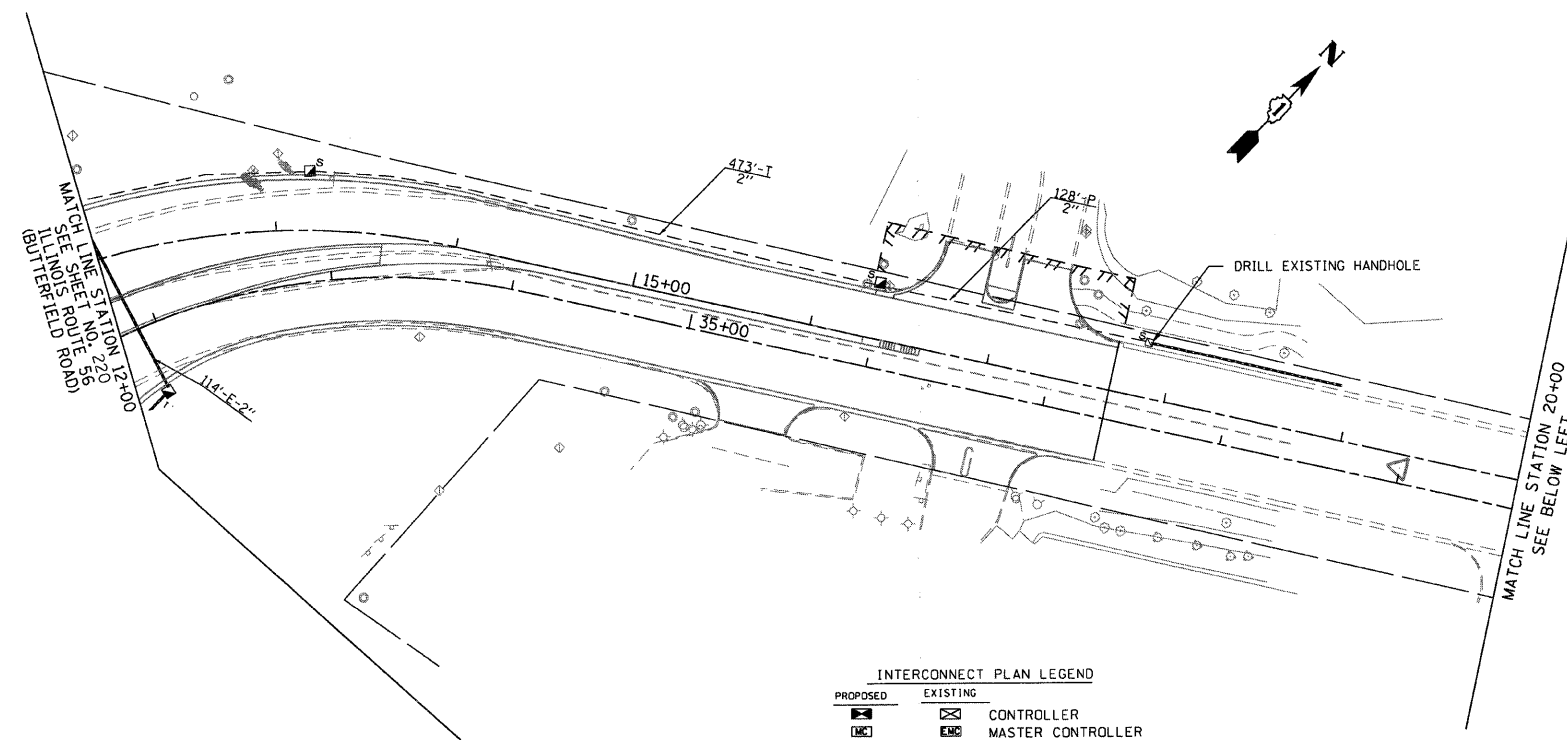
**22nd STREET
SYSTEM INTERCONNECT PLAN**

SCALE: 50.0000' / SHEET NO.223 OF 362 SHEETS STA. 273+00 TO STA. 298+00

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1453	55WRS		362	223
CONTRACT NO. 60D12				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

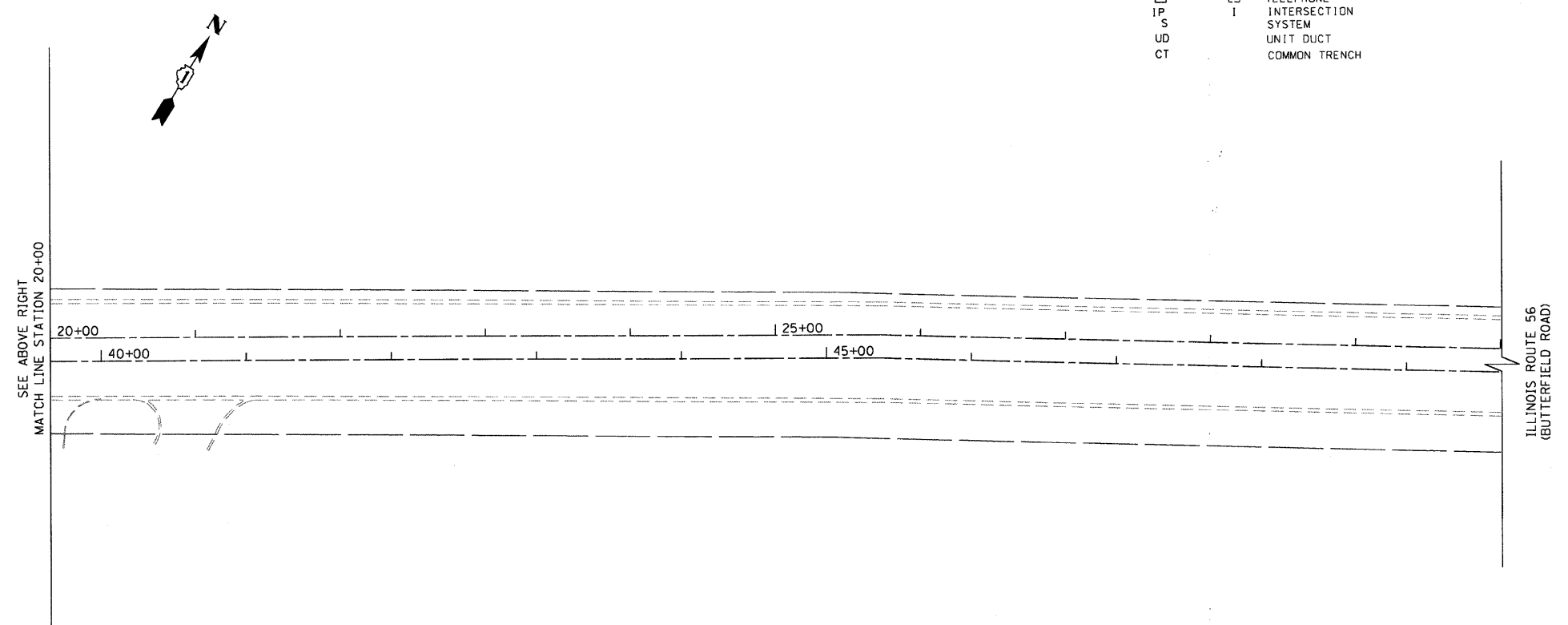
IC-04

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INTERCONNECT PLAN LEGEND

PROPOSED	EXISTING	DESCRIPTION
[Symbol]	[Symbol]	CONTROLLER
[Symbol]	[Symbol]	MASTER CONTROLLER
[Symbol]	[Symbol]	DOUBLE HANDHOLE
[Symbol]	[Symbol]	HANDHOLE
[Symbol]	[Symbol]	HEAVY DUTY HANDHOLE
[Symbol]	[Symbol]	G.S. CONDUIT IN TRENCH OR PUSHED
[Symbol]	[Symbol]	INTERSECTION AND SAMPLING (SYSTEM) DETECTOR LOOP
[Symbol]	[Symbol]	TELEPHONE
[Symbol]	[Symbol]	INTERSECTION SYSTEM
[Symbol]	[Symbol]	UNIT DUCT
[Symbol]	[Symbol]	COMMON TRENCH



FILE NAME : p:\2007\me07081.22nd.stree\cadd\Shs\0160012-SHT-INTC05-Butterfield.dgn
 USER : ME
 MILLENNIA ENGINEERING

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DATE - 7/24/2009	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

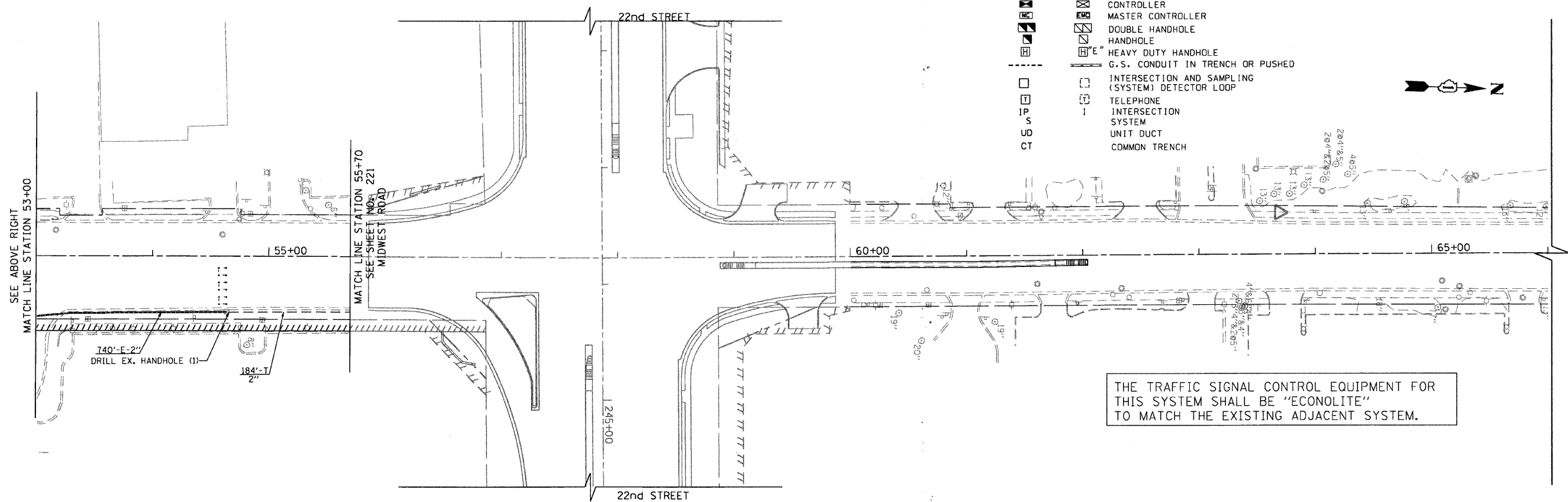
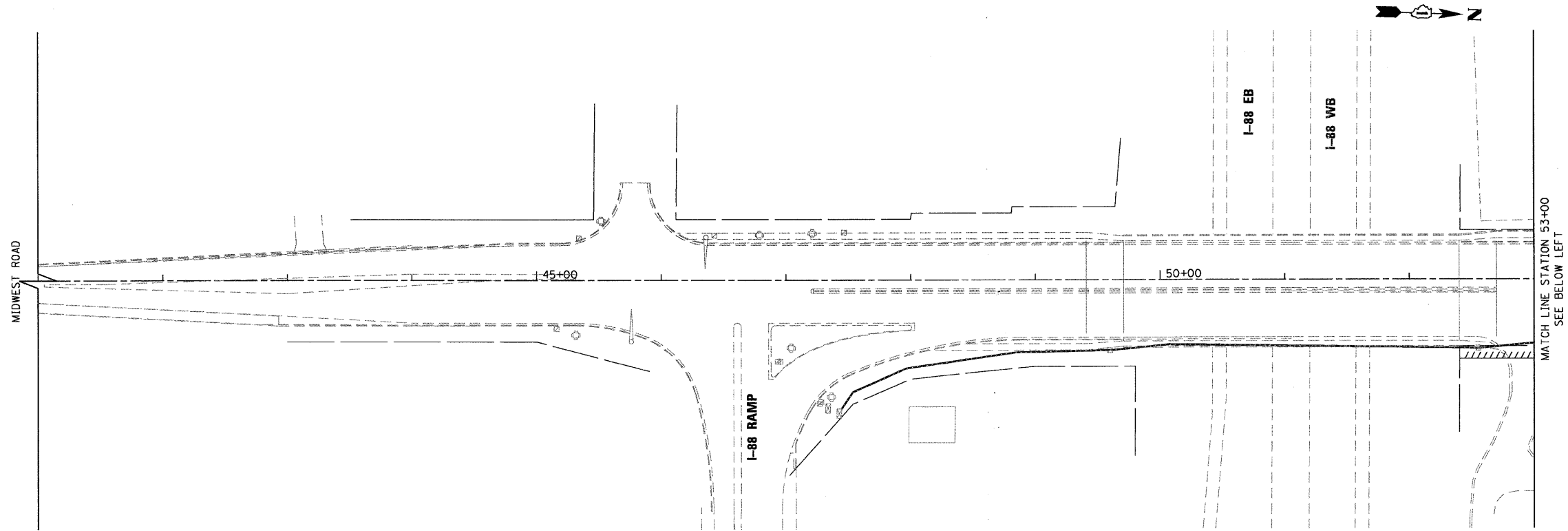
ILLINOIS ROUTE 56 (BUTTERFIELD RD)
SYSTEM INTERCONNECT PLAN

SCALE: 1"=50' SHEET NO.170 OF 362 SHEETS STA. 12+00 TO STA. 25+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1453	55WRS	DUPAGE	362	224
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60D12	

IC-05

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INTERCONNECT PLAN LEGEND

PROPOSED	EXISTING	DESCRIPTION
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[Symbol]	[Symbol]	MASTER CONTROLLER
[Symbol]	[Symbol]	DOUBLE HANDHOLE
[Symbol]	[Symbol]	HANDHOLE
[Symbol]	[Symbol]	"E" HEAVY DUTY HANDHOLE
[Symbol]	[Symbol]	G.S. CONDUIT IN TRENCH OR PUSHED
[Symbol]	[Symbol]	INTERSECTION AND SAMPLING (SYSTEM) DETECTOR LOOP
[Symbol]	[Symbol]	TELEPHONE
[Symbol]	[Symbol]	INTERSECTION SYSTEM
[Symbol]	[Symbol]	UNIT DUCT
[Symbol]	[Symbol]	COMMON TRENCH

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS SYSTEM SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

FILE NAME = S:\2007\me07081.22nd.street\ood\Shs\0160012-SHT-INTC06-MIDWEST.dgn
 PLOT SCALE = 50.0000 IN.
 USER NAME = Millennium Engineering

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DATE - 7/24/2009	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MIDWEST ROAD
SYSTEM INTERCONNECT PLAN**

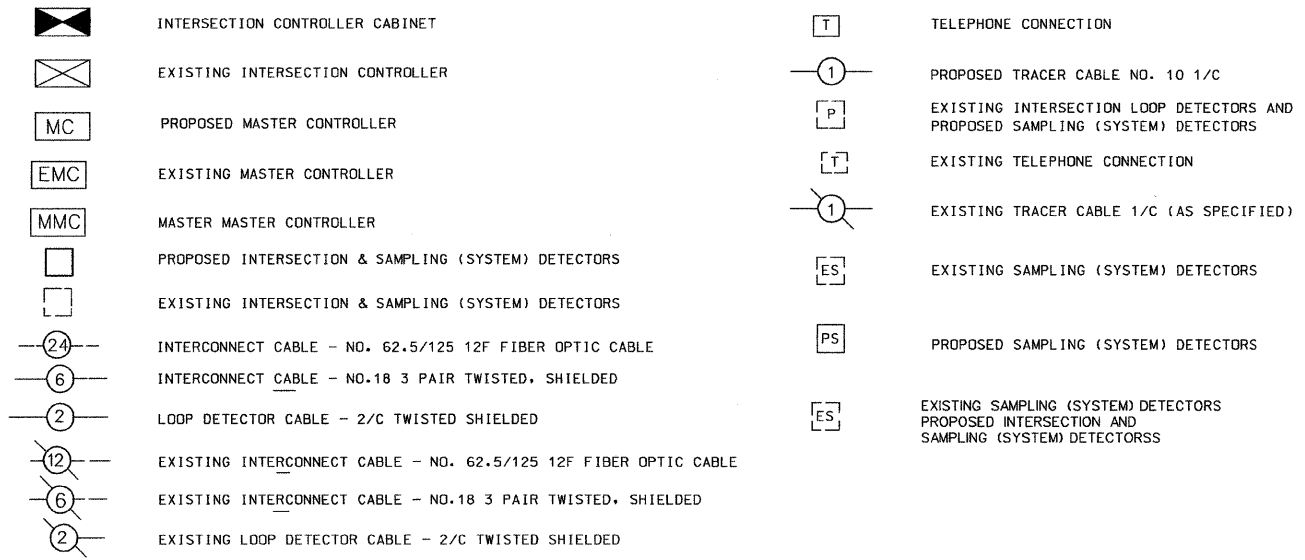
SCALE: 1"=50' SHEET NO. 225 OF 362 SHEETS STA. 41+00 TO STA. 65+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1453	55WRS	DUPAGE	362	225
CONTRACT NO. 60D12				

FED. ROAD DIST. NO. 7 [ILLINOIS] FED. AID PROJECT
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IC-06

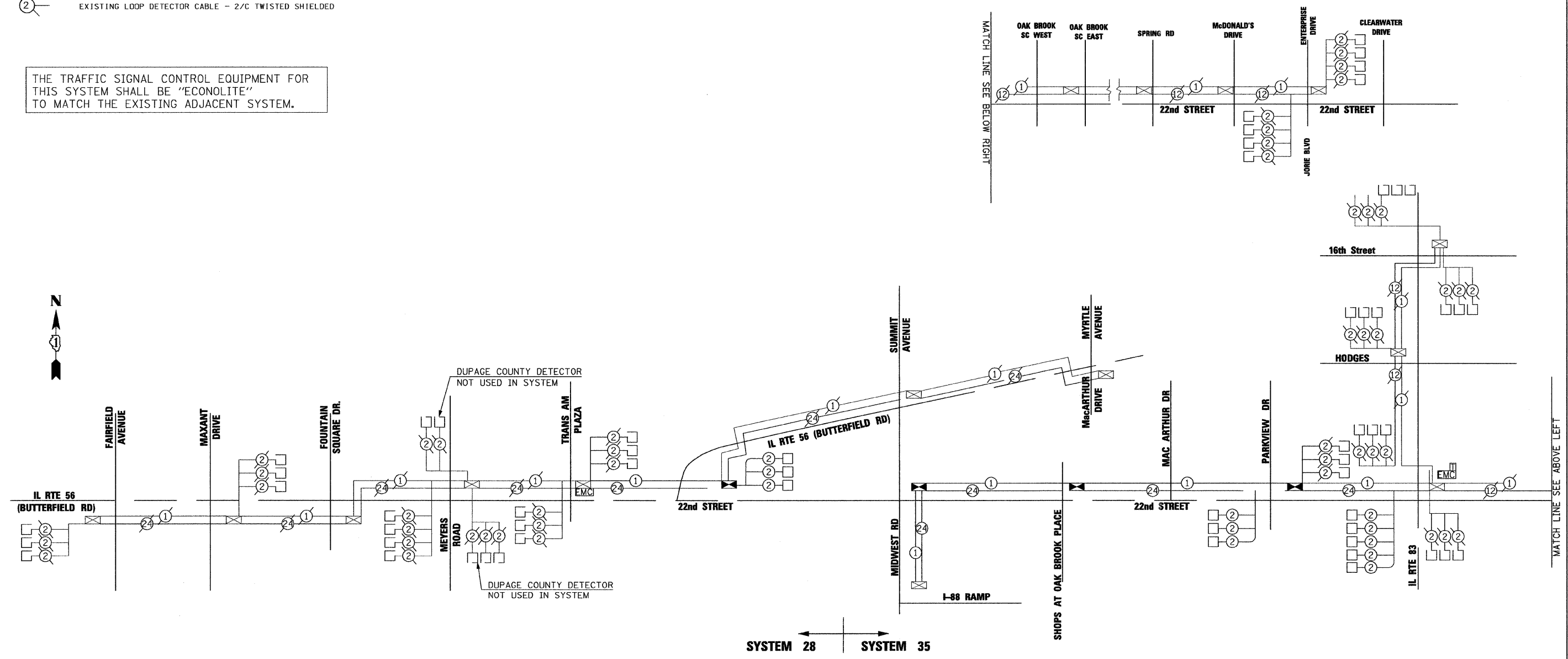
INTERSECTION SCHEMATIC LEGEND



THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS SYSTEM SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

SYSTEM INTERCONNECT SCHEDULE OF QUANTITIES

ITEM	UNIT	TOTAL QUANTITY	SYSTEM 28	SYSTEM 35
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	2625	715	1910
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	830	130	700
HANDHOLE	EACH	6	2	4
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	2625	715	1910
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	6	3	3
DRILL EXISTING HANDHOLE	EACH	4	2	2
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1060	360	700
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	4	1	3
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	6605	1675	4930
PREFORMED DETECTOR LOOP	FOOT	279	125	154
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SMI2F	FOOT	6605	1675	4930
TEMPORARY TRAFFIC SIGNAL INTERCONNECT	EACH	2	1	1



FILE NAME = P:\2007\ME\7881\22nd-Street\Cadd\Supp3\0168012-SHT-INTC86-Schematics.dgn
 USER NAME = MILLENNIA_Engineering

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DATE - 04/01/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

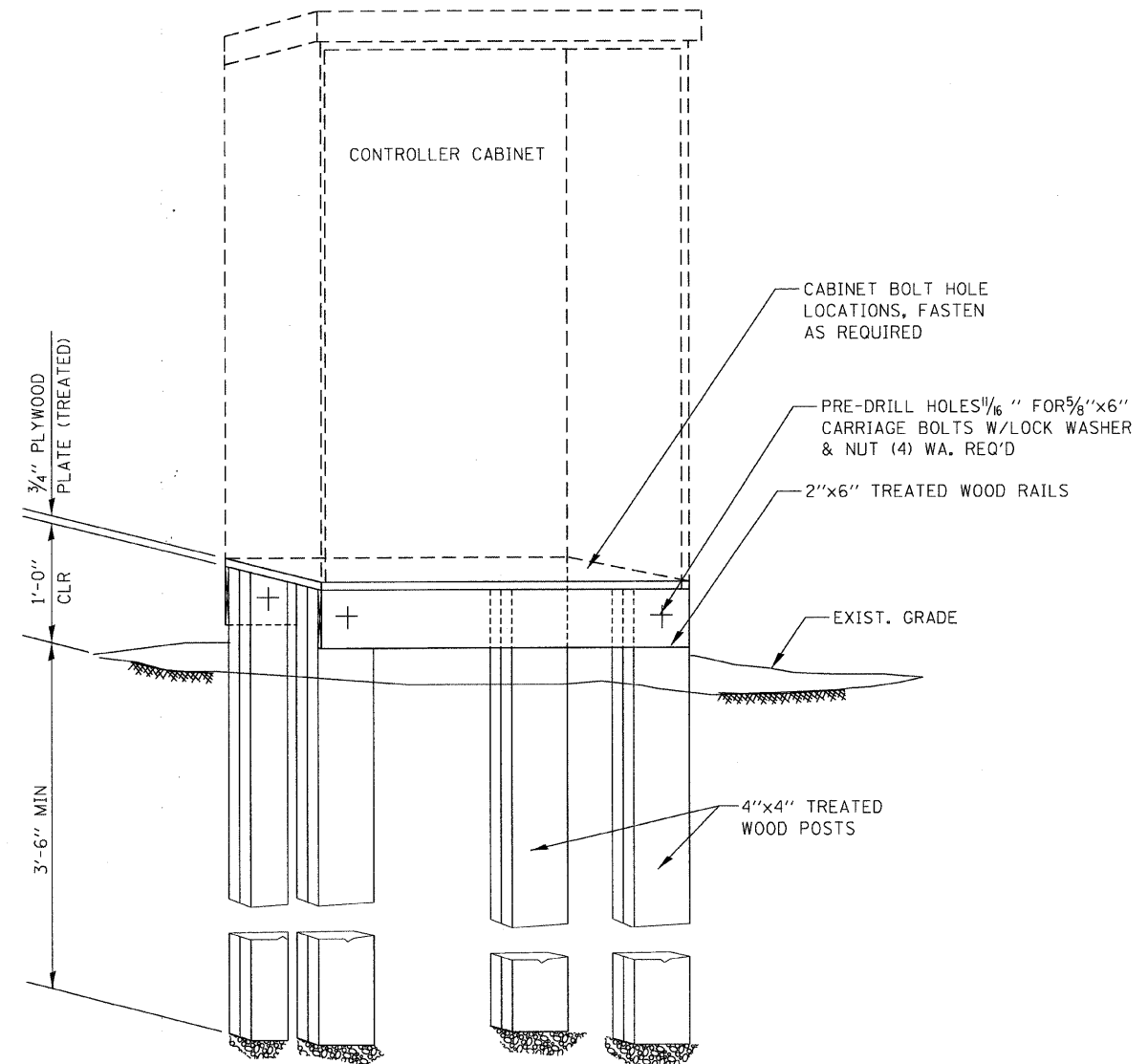
22nd STREET
INTERCONNECT SCHEMATIC

SCALE: NONE SHEET NO. 226 OF 362 SHEETS STA. TO STA.

F.A.J. RTE. 1453	SECTION 55WRS	COUNTY DUPAGE	TOTAL SHEETS 362	SHEET NO. 226
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				
CONTRACT NO. 60012				

CONTROLLER CABINET TYPE & DIMENSIONS VARY.
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECT
 CABINET DIMENSIONS PRIOR TO THE CONSTRUCTION OF
 THE CABINET MOUNTING PLATFORM SHOWN BELOW.

CABINET PLATFORM LEGS & RAILS SHALL BE CONSTRUCTED
 OF TREATED WOOD TO RESIST WEATHERING



TEMPORARY TRAFFIC SIGNAL
 CONTROLLER PLATFORM DETAIL

N.T.S.

FILE NAME : S:\2007\me07081_22nd_street\cadd\shs\0160012-SHT-DETAILS05-TEMP_CONT_PLAT.dgn
 PLOT SCALE : 1/8" = 1'-0"
 USER NAME : Millennium_Engineering



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DRAWN - TVN	REVISED -
CHECKED - RPD	REVISED -
DATE - 7/24/2009	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

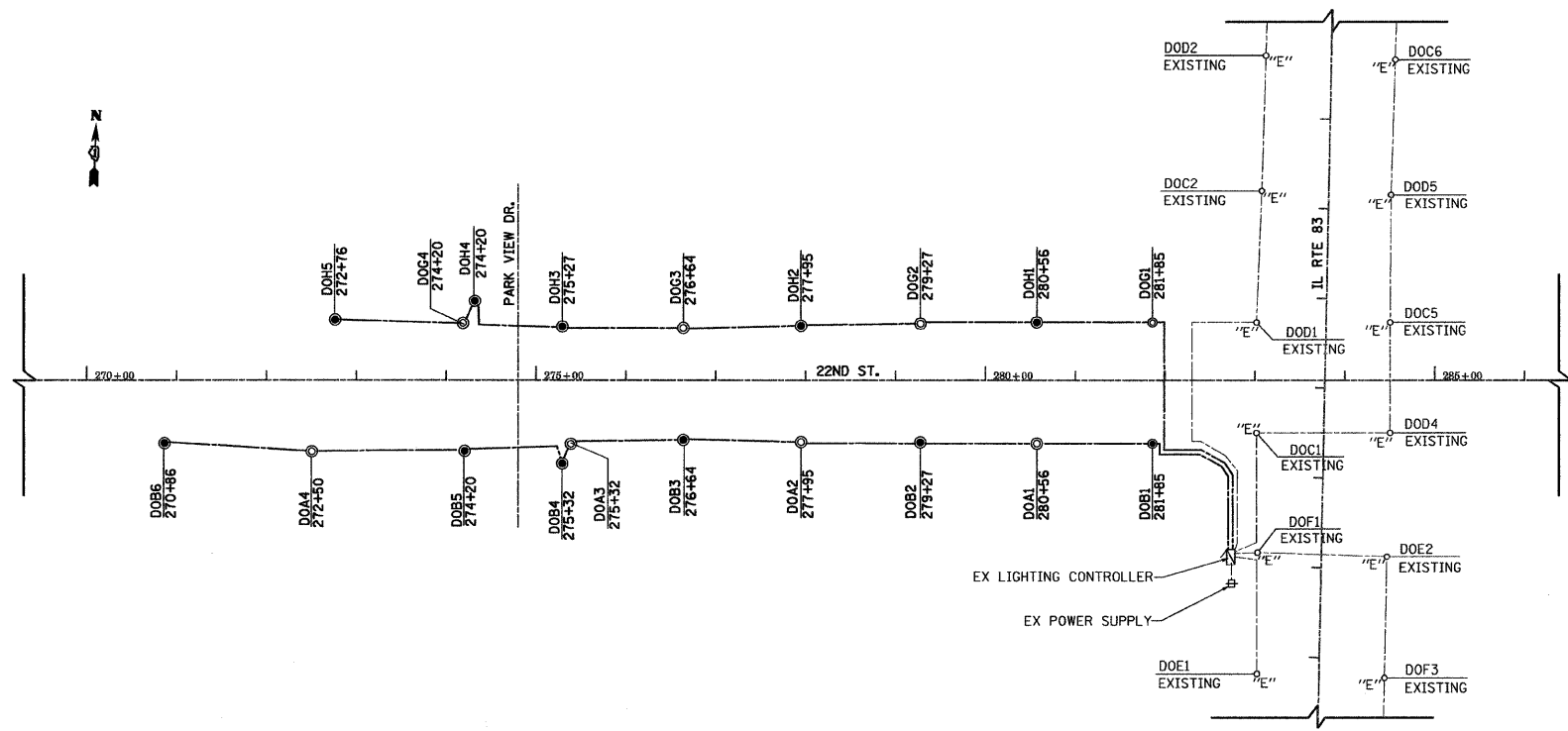
**22nd STREET
 TEMP TS CONTROLLER PLATFORM DETAIL**

SCALE: NONE SHEET NO. OF 362 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1453	55WRS	DUPAGE	362	227
CONTRACT NO. 60D12				

FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT

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LOAD TABULATION

EXISTING CONTROLLER AT IL RTE 83 (CONTROLLER - DO)				
CIRCUIT		NO. OF LIGHTS	WATTAGE	AMPS
A	RED	4	1,600	7.3
B	BLACK	6	2,400	11.0
C	RED	7	2,800	12.8
D	BLACK	7	2,800	12.8
E	RED	3	1,200	5.5
F	BLACK	3	1,200	5.5
G	RED	4	1,600	7.3
H	BLACK	5	2,000	9.2
TOTAL		39	15,600	71.4

- LEGEND**
- E— EXISTING CABLE
 - PROPOSED CABLE
 - ◻ PROPOSED CONTROLLER
 - ◻ EXISTING CONTROLLER
 - ◻ PROPOSED SERVICE CONNECTION
 - ◻ EXISTING SERVICE CONNECTION
 - XXXX
XX+XX LIGHT POLE CIRCUIT STATION
 - "E" ○ EXISTING LUMINAIRE
 - LUMINAIRE, HPS, 400W, ON RED WIRE
 - LUMINAIRE, HPS, 400W, ON BLACK WIRE

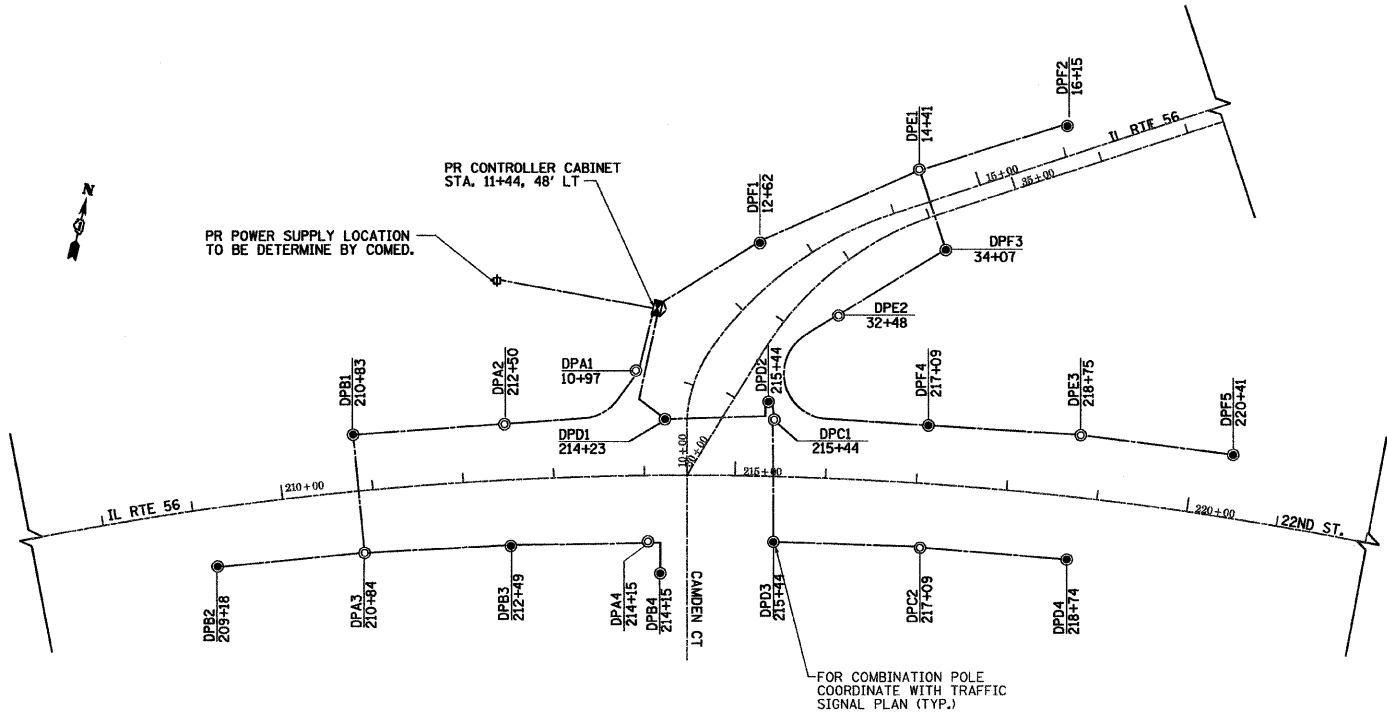
LOAD TABULATION

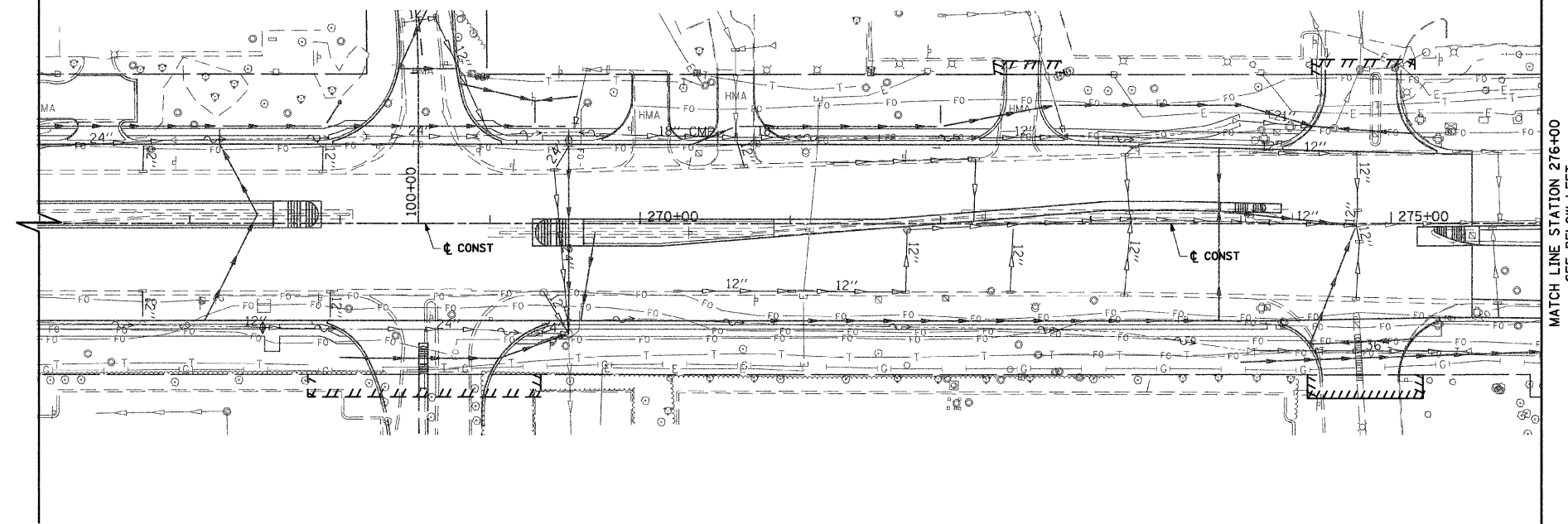
PROPOSED CONTROLLER AT IL RTE 56 (CONTROLLER - DP)				
CIRCUIT		NO. OF LIGHTS	WATTAGE	AMPS
A	RED	4	1,600	7.3
B	BLACK	4	1,600	7.3
C	RED	2	800	3.7
D	BLACK	4	1,600	7.3
E	RED	3	1,200	5.5
F	BLACK	5	2,000	9.2
G	RED	-	-	-
H	BLACK	-	-	-
TOTAL		22	8,800	40.3

SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
1	EACH	ELECTRIC SERVICE INSTALLATION
1	L SUM	ELECTRIC UTILITY SERVICE CONNECTION
52	FOOT	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
783	FOOT	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL
1	EACH	HANDHOLE
5,865	FOOT	UNIT DUCT, 600V, 3-1C NO.6, 1/C NO.6 GROUND, (EPR-TYPE RHW), 1" DIA. POLYETHYLENE
100	FOOT	ELECTRIC CABLE IN CONDUIT, 600V (EPR-TYPE USE) 3-1/C NO. 3/0
1000	FOOT	AERIAL CABLE 3-1/C NO. 6 WITH MESSANGER WIRE
4,877	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
31	EACH	LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 15 FT. MAST ARM
2	EACH	LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 2-15 FT. MAST ARMS
219	FOOT	LIGHT POLE FOUNDATION, 24" DIAMETER
14	FOOT	LIGHT POLE FOUNDATION, 24" DIAMETER, OFFSET
33	EACH	BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE
10	EACH	REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE
10	EACH	REMOVAL OF POLE FOUNDATION, CONCRETE
19	CAL MO	MAINTENANCE OF LIGHTING SYSTEM
1	EACH	LIGHTING CONTROLLER, SINGLE DOOR, CONSOLE TYPE
41	EACH	LUMINAIRE SAFETY CABLE ASSEMBLY
41	EACH	LUMINAIRE, STREET LIGHTING, HIGH PRESSURE SODIUM VAPOR, 400 WATT, 240 VOLT
33	EACH	GROUND ROD, 5/8" DIA. X 10 FT.
5	EACH	TEMPORARY WOOD POLE, 60 FT, CLASS 4, 15' MAST ARM
5	EACH	TEMPORARY LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNTED, 400 WATT
1	EACH	TEMPORARY WOOD POLE, 45 FT, CLASS 4

NOTE:
IL ROUTE 56 INTERSECTION COMBINATION MAST ARM & POLE LOCATION AND QUANTITY IS SHOWN ON TRAFFIC SIGNAL PLANS. THE LUMINAIRE AND UNIT DUCT QUANTITIES FOR ABOVE INTERSECTION IS INCLUDED IN ROADWAY LIGHTING QUANTITY.



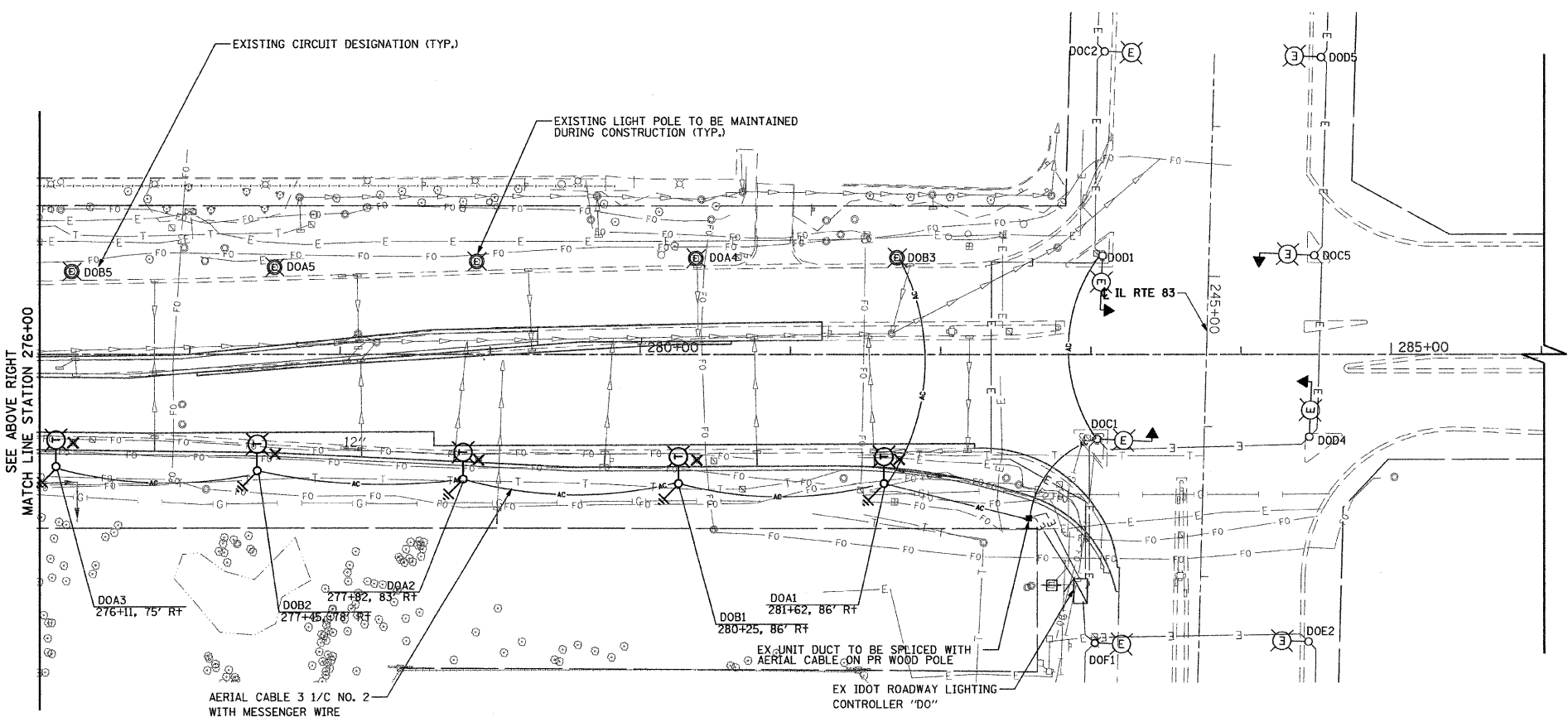


LEGEND

- TEMPORARY ROADWAY LIGHTING UNIT
- POLE: TEMPORARY WOOD POLE, TOFT, CLASS 3, 10' MAST ARM
- LUMINAIRE: 400W HIGH PRESSURE SODIUM OR APPROVED EQUAL
- EXISTING ROADWAY LIGHTING UNIT TO REMAIN
- EXISTING COMBINATION LIGHTING UNIT TO REMAIN
- REMOVAL OF EXISTING LIGHTING UNIT
- EXISTING SERVICE INSTALLATION, 240/480V, 1Ø, 3 WIRE
- PROPOSED SERVICE INSTALLATION, 240/480V, 1Ø, 3 WIRE
- EXISTING LIGHTING CONTROLLER CABINET
- PROPOSED LIGHTING CONTROLLER SINGLE DOOR CONSOLE TYPE
- PROPOSED HANDHOLE
- EXISTING HANDHOLE
- GROUND ROD, 3/8 INCH x 10 FEET
- UNIT DUCT
- EXISTING UNIT DUCT
- AERIAL CABLE
- "P" PUSHED
- "T" TRENCHED
- CONDUIT PUSHED (P), 2.5" DIA. GALVANIZED STEEL (UNLESS OTHERWISE NOTED)

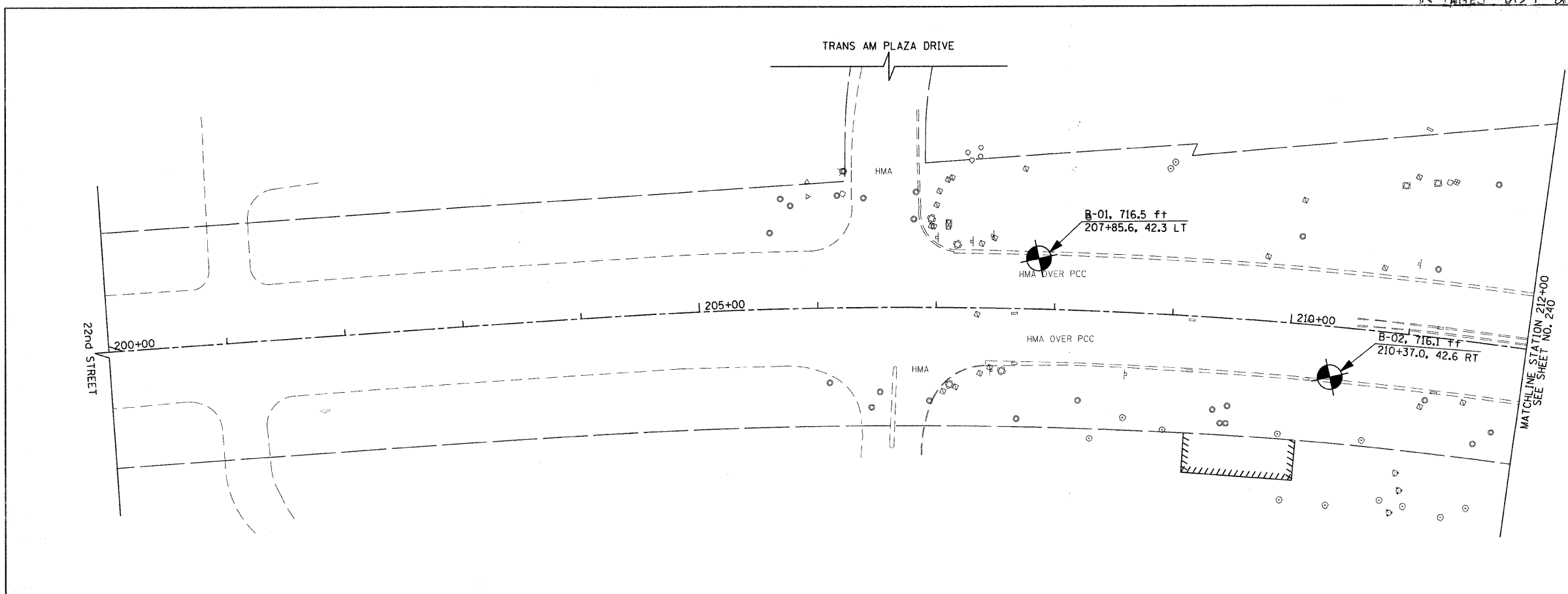
CIRCUIT DESIGNATION SCHEME

- LIGHTING CONTROLLER DESIGNATION
- CIRCUIT
- POLE NO. ON GIVEN CIRCUIT
- OFFSET FROM CENTERLINE (LT, RT)
- LIGHT POLE STATION

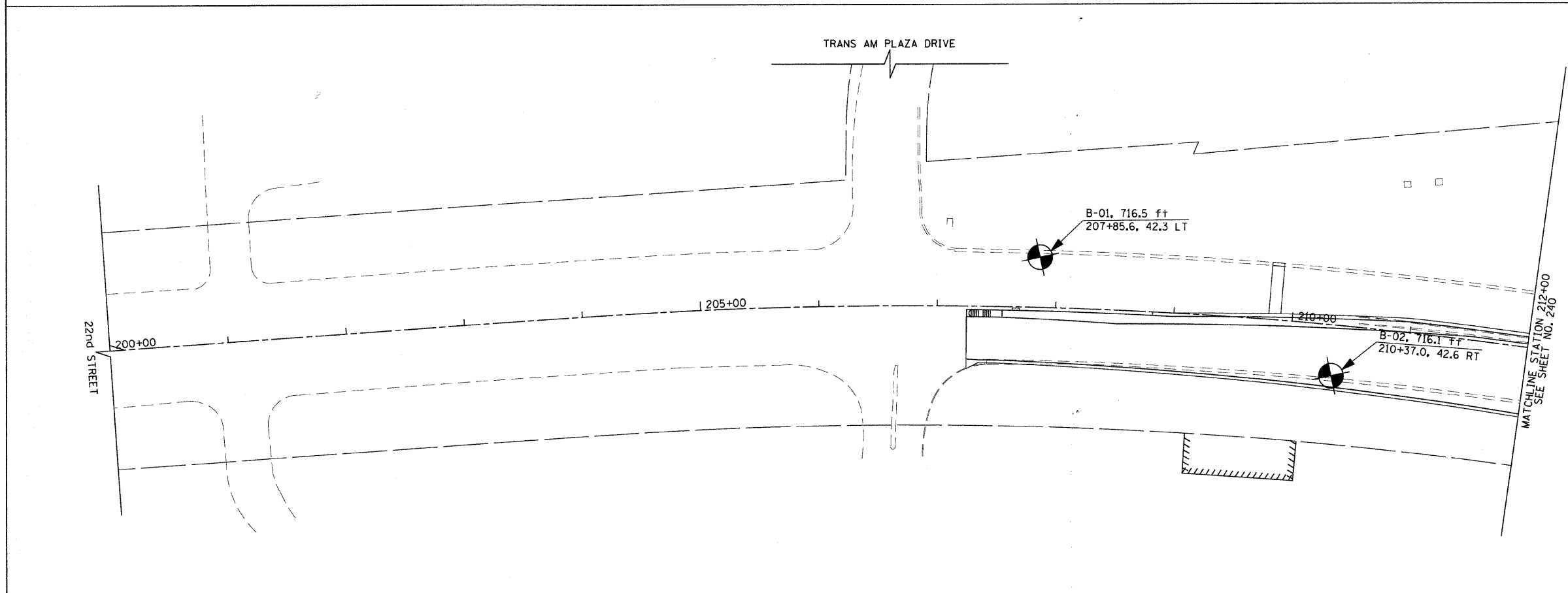


- GENERAL NOTES**
1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MARK THE PROPOSED LOCATIONS OF ALL LIGHT POLES FOR EXAMINATION AND CONFIRMATION WITH THE RESIDENT ENGINEER. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO AUGURING FOR LIGHT POLE FOUNDATIONS. THE EXACT LOCATIONS OF ALL ITEMS SHALL BE CONFIRMED WITH THE RESIDENT ENGINEER PRIOR TO STARTING WORK.
 2. PROPOSED ROADWAY LIGHT POLES SHALL HAVE A SET-BACK OF 2.0 FEET (MIN) FROM THE BACK OF CURB TO THE CENTER OF POLE, UNLESS OTHERWISE INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
 3. ALL LIGHT POLES SHALL BE "UL" CLASSIFIED
 4. A GROUND ROD SHALL BE PROVIDED FOR EACH CONCRETE FOUNDATION. GROUNDING CONNECTIONS MADE TO THE FOUNDATION SHALL BE EXOTHERMICALLY WELDED, AS SPECIFIED IN THE PLAN DETAILS.
 5. THE CONTRACTOR SHALL NOTE THE REQUIREMENTS FOR THE ELECTRICAL SERVICE FOR THE PROPOSED ROADWAY LIGHTING. IT IS THE CONTRACTOR'S RESPONSIBILITY FOR TIMELY NOTIFICATION AND COORDINATION WITH THE ELECTRIC UTILITY COMPANY.
 6. PARALLEL UNIT DUCT RUNS SHOWN ON THE PLANS SHALL BE PLACED IN A COMMON TRENCH.
 7. THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE SPECIFIED REQUIREMENTS FOR BURIED WARNING TAPE, SPECIFIED AS PART OF "TRENCH AND BACKFILL FOR ELECTRICAL WORK". THE INSTALLATION OF THE TAPE SHALL BE INSPECTED BY THE ENGINEER PRIOR TO BACKFILLING OR DURING PLOWING OPERATIONS, AS APPLICABLE.
 8. ALL CONDUIT IS PUSHED UNLESS OTHERWISE NOTED. CONDUIT LENGTHS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE ACTUAL DISTANCE REQUIREMENTS IN THE FIELD.
 9. THE EXISTING DECORATIVE LIGHT POLES ON NORTH SIDE TO BE MAINTAINED DURING CONSTRUCTION AND SHALL BE REMOVED ONCE THE PROPOSED LIGHTING SYSTEM IS OPERATIONAL
 10. ON SOUTH SIDE TEMPORARY LIGHT POLES TO BE INSTALLED PRIOR TO CONSTRUCTION AND POWERED BY AERIAL CABLE. THE EXISTING DECORATIVE LIGHT POLES ON SOUTH SIDE TO BE REMOVED AND DELIVERED TO IDOT.
 11. THE EXISTING UNIT DUCT FOR THE EXISTING CIRCUIT "A" AND "B" TO BE REMOVED FROM UNDER GROUND CONDUIT AND ATTACHED TO THE WOOD POLE. AERIAL CABLE ALSO CONNECT TO THE WOOD POLE AND SPLICE WITH UNIT DUCT. FOR DETAIL SEE IDOT DISTRICT 1 STANDARD BE-BOL. ALL THE COST IS INCLUDED IN THE COST OF "TEMPORARY WOOD POLE, 45 FT, CLASS 4", FOR CIRCUIT "C" & "D" USE SAME PROCEDURE IF SERVICE INTERRUPTED DUE TO PAVEMENT WIDENING.
 12. THE EXISTING DECORATIVE LIGHT POLES TO BE DELIVERED TO IDOT AT THE FOLLOWING LOCATION BY THE CONTRACTOR. DELIVERY AND TRANSPORTATION COST IS INCLUDED IN THE COST OF POLE REMOVAL. NAME OF CONTACT PERSON: MR. NEIL THAKKAR. PHONE NO.: (847) 221-3078.
 13. TEMPORARY WOOD POLES SHOWN AT VARIOUS LOCATIONS IN THE TEMPORARY LIGHTING PLANS SHALL BE USED TO PROVIDE AND MAINTAIN AERIAL CONNECTIONS. THE CAST TO FURNISH, INSTALL, RELOCATE IF NECESSARY AND REMOVAL SHALL BE INCLUDED AS PART OF THE AERIAL CABLE.

FILE NAME =	USER NAME = BAW.tort	DESIGNED - FA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY LIGHTING PLAN - 22nd STREET AND ILLINOIS ROUTE 83	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
g:\ch07\0861\road\sheet\0168012-SHT-LP-04.dgn		DRAWN - BAW	REVISED -			1453	55WRS	DUPAGE	362	232	
PLOT SCALE = 50.0000' / IN.		CHECKED - LGB	REVISED -			SCALE: 1"=50'		SHEET NO. 232 OF 362 SHEETS		STA. 265+00 TO STA. 287+00	
PLOT DATE = 3/31/2010		DATE - 4/1/2010	REVISED -			FED. ROAD DIST. NO. 7 [ILLINOIS] FED. AID PROJECT					
						CONTRACT NO. 60D12					



NOTES:
1. ALL SURFACES ARE CONCRETE UNLESS OTHERWISE NOTED.



BORING LOCATION PLANS AND SOIL PROFILES:
22ND STREET IMPROVEMENTS, IDOT PROJECT NO. D-91-312-07

Horizontal Scale: _____ Date: 07/24/2009
Vertical Scale: _____ Checked By: S. Sugiarto

Sheet 1 of 11

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1145 N. Main Street
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Phone: (630) 953-9928
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FOR TRANSSYSTEMS CORPORATION 790-31-01

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1453	55WRS	DuPAGE	362	239

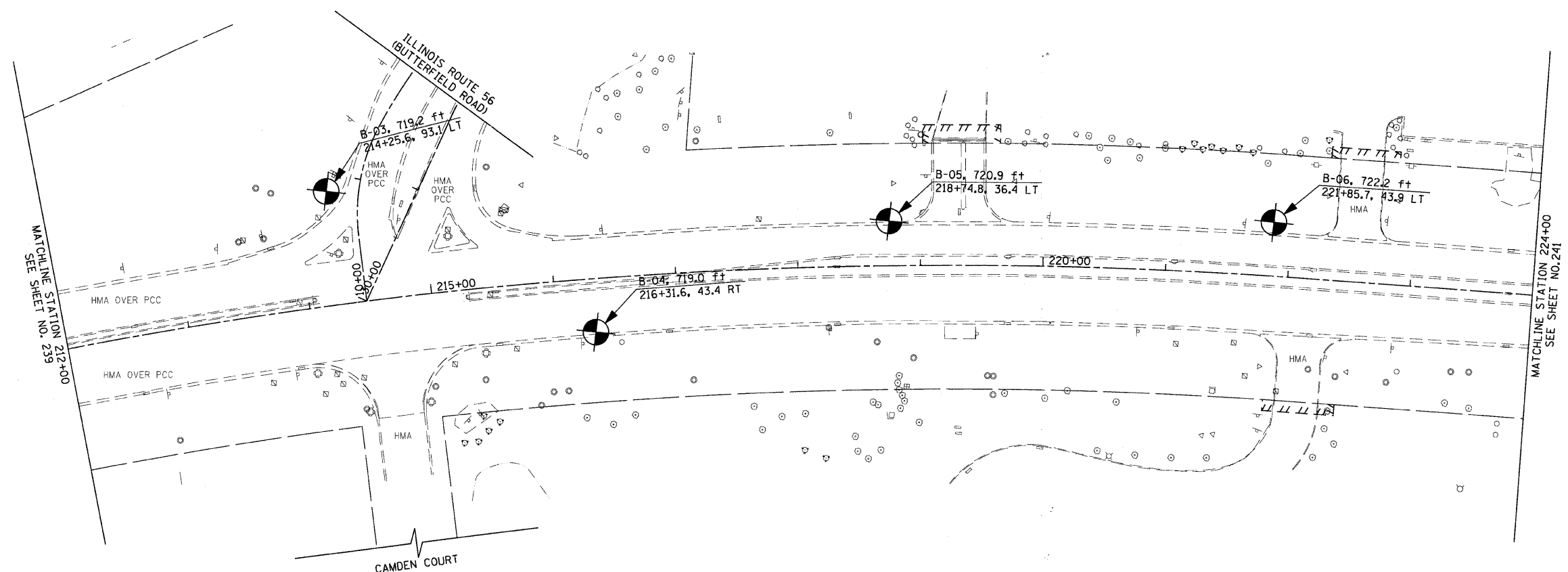
CONTRACT NO. 60D12
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT

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	PLOT DATE = 8/5/2009	DATE - 07/24/2009	REVISED -

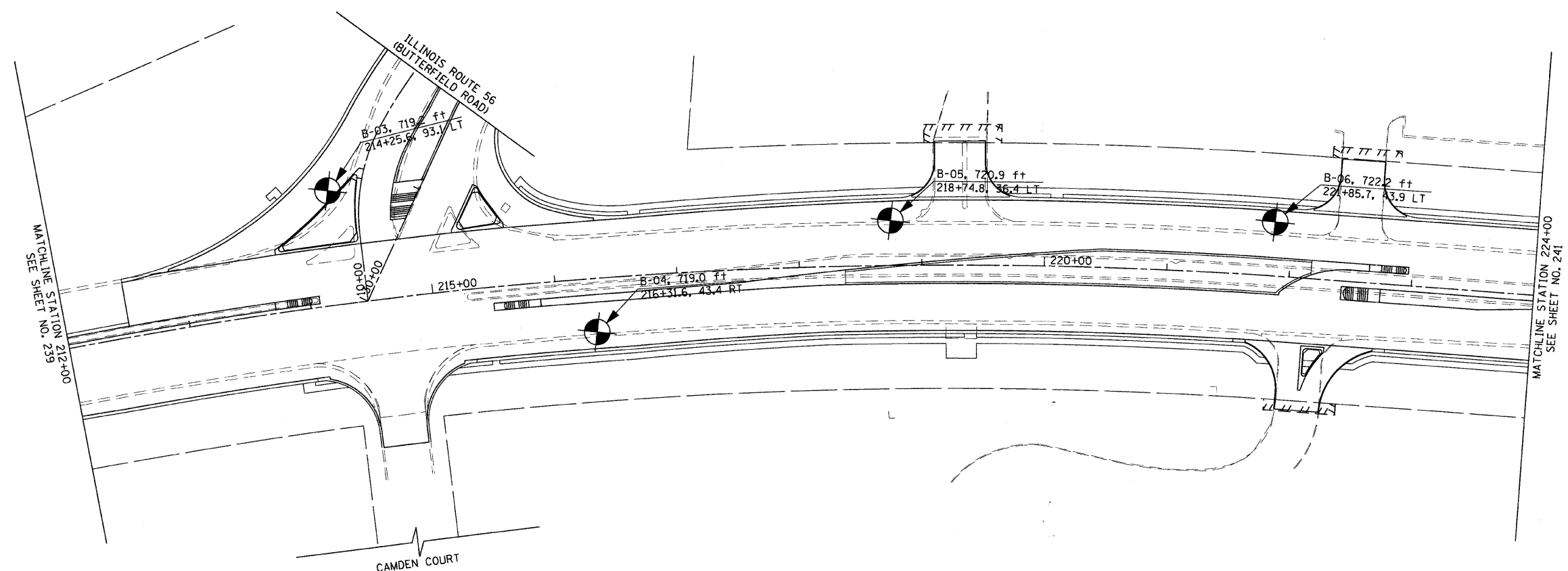
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

22nd STREET BORING LOCATION PLANS

SCALE: 1"=50' SHEET NO. 239 OF 362 SHEETS STA. 200+00 TO STA. 212+00



NOTES:
 1. ALL SURFACES ARE CONCRETE UNLESS OTHERWISE NOTED.



BORING LOCATION PLANS AND SOIL PROFILES:
 22ND STREET IMPROVEMENTS, IDOT PROJECT NO. D-91-312-07

Horizontal Scale: Vertical Scale: Sheet 2 of 11

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 www.wangeng.com

FOR TRANSYSTEMS CORPORATION 790-31-01

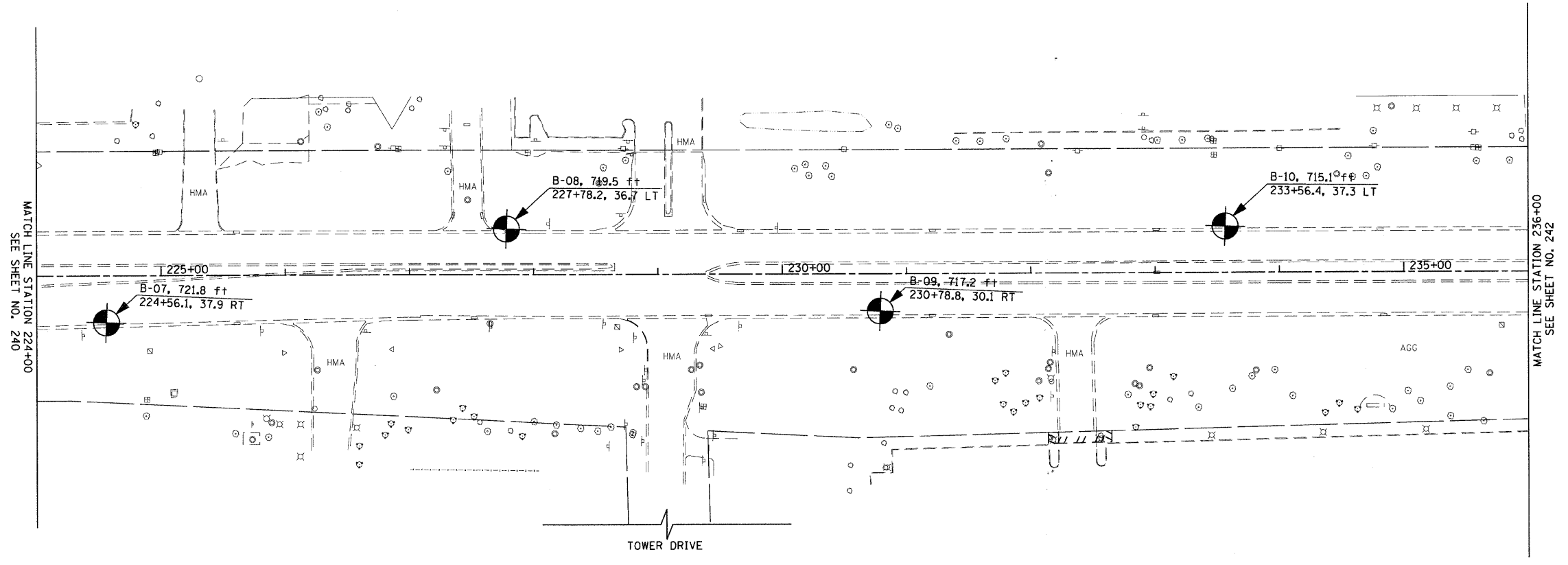
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PLDT DATE = 8/5/2009	DATE - 07/24/2009	CHECKED - JRH	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

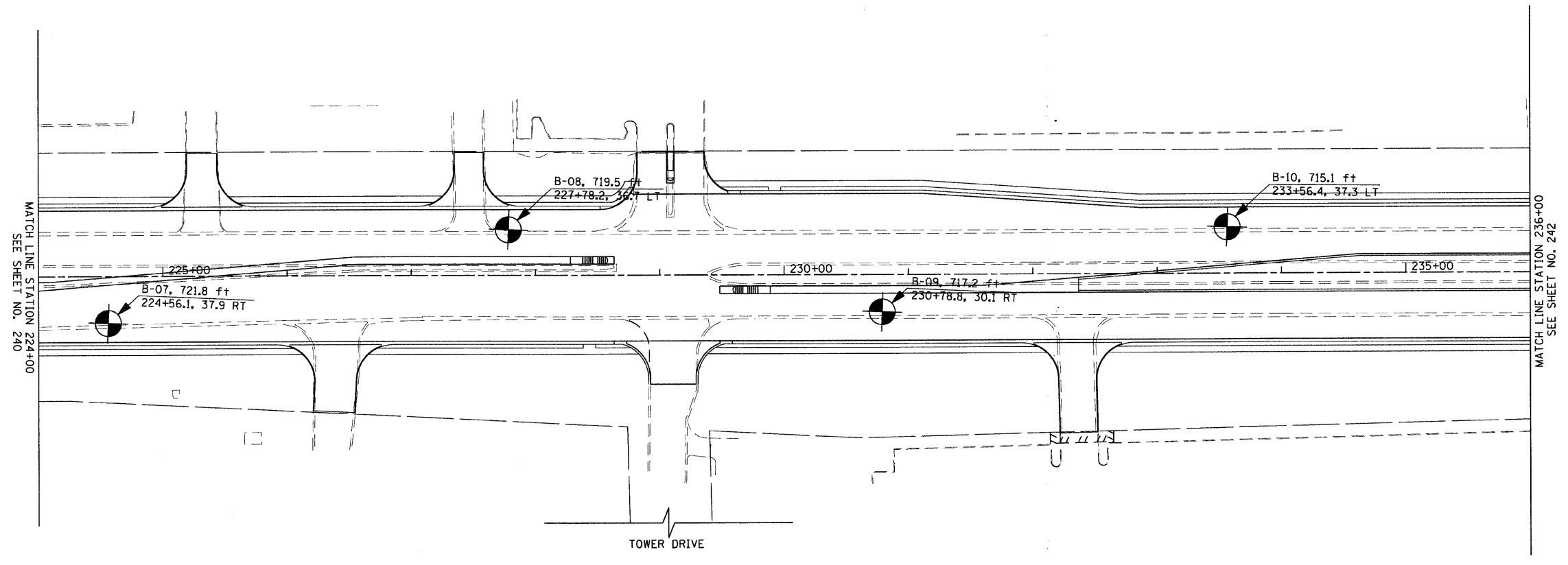
22nd STREET BORING LOCATION PLANS
 SCALE: 1"=50' SHEET NO. 240 OF 362 SHEETS STA. 212+00 TO STA. 224+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1453	55WRS	DuPAGE	362	240
CONTRACT NO. 60D12				

FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT



NOTES:
1. ALL SURFACES ARE CONCRETE UNLESS OTHERWISE NOTED.



BORING LOCATION PLANS AND SOIL PROFILES:
22ND STREET IMPROVEMENTS, IDOT PROJECT NO. D-91-312-07

Horizontal Scale: _____ Vertical Scale: _____

Sheet 3 of 11

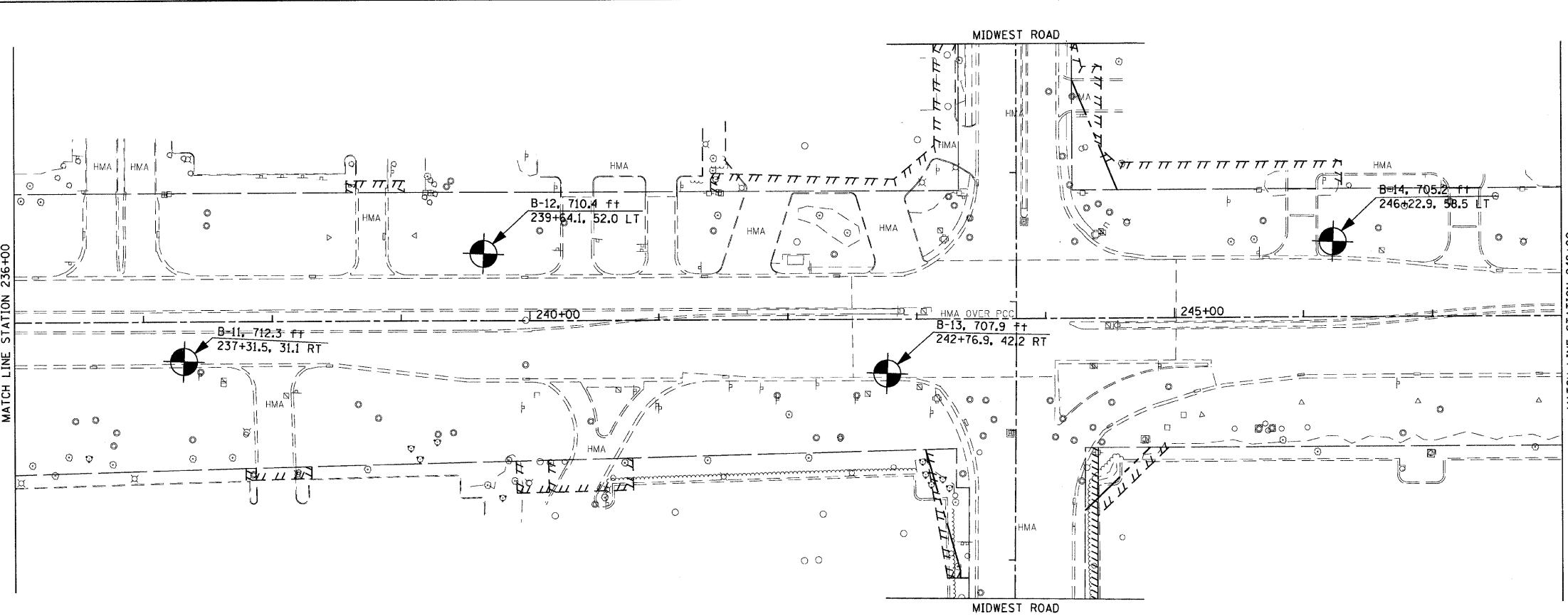
Drawn By: W. Wang
Checked By: S. Sugiarto

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Phone: (630) 953-9928
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FOR TRANSYSTEMS CORPORATION 790-31-01

FILE NAME = g:\ch-07\0061\road\sheets\DI60D12-SHT-501-03.dgn	USER NAME = BAW\stort	DESIGNED - JMG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	22nd STREET BORING LOCATION PLANS			F.A.U. RTE. 1453	SECTION 55WRS	COUNTY	TOTAL SHEETS 362	SHEET NO. 241
PLOT SCALE = 50.0000' / IN.	CHECKED - JRH	DRAWN - BAW	REVISED -		SCALE: 1"=50'	SHEET NO. 241 OF 362 SHEETS	STA. 224+00 TO STA. 236+00	CONTRACT NO. 60D12		FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT		
PLOT DATE = 8/5/2009	DATE - 07/24/2009	CHECKED - JRH	REVISED -									
		DATE - 07/24/2009	REVISED -									

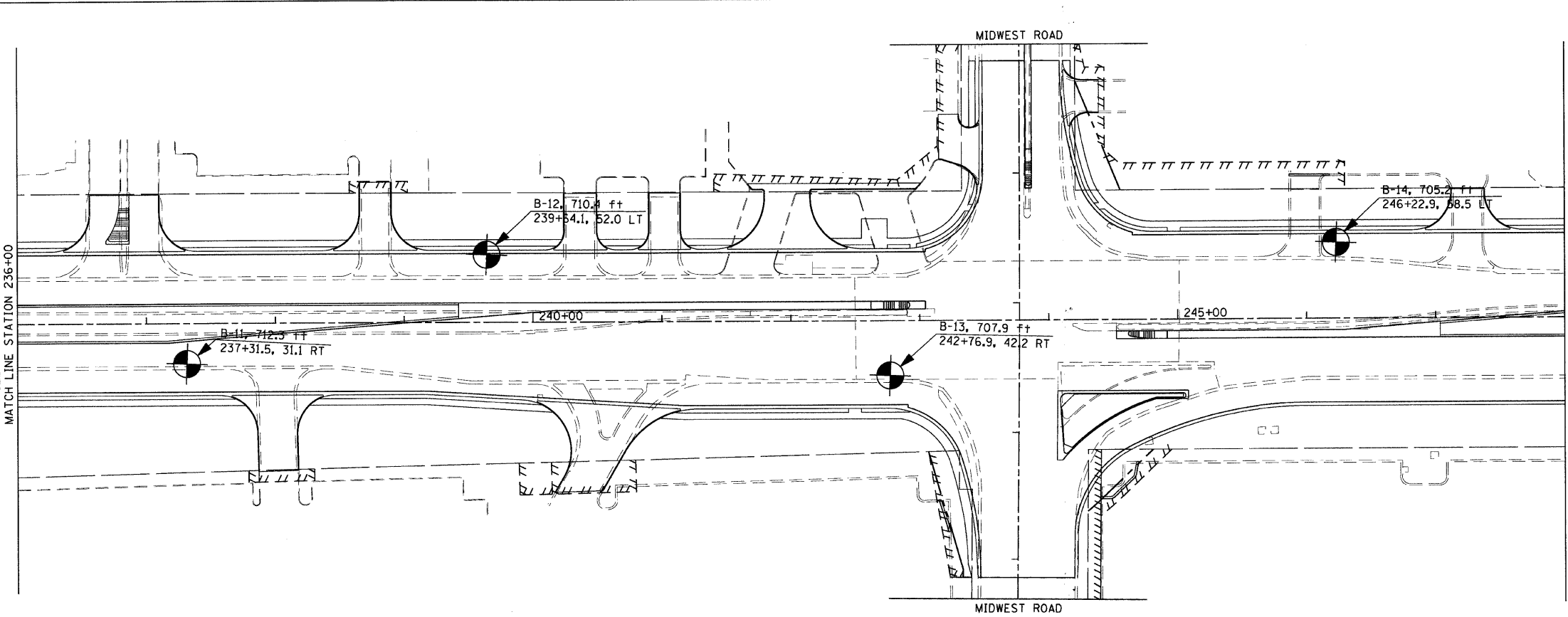
SEE SHEET NO. 241
MATCH LINE STATION 236+00



NOTES:
1. ALL SURFACES ARE CONCRETE UNLESS OTHERWISE NOTED.



SEE SHEET NO. 241
MATCH LINE STATION 236+00



BORING LOCATION PLANS AND SOIL PROFILES:
22ND STREET IMPROVEMENTS, IDOT PROJECT NO. D-91-312-07

Horizontal Scale: Vertical Scale: Sheet 4 of 11 Drawn By: W. Wang Checked By: S. Sigars



FOR TRANSYSTEMS CORPORATION 790-31-01

FILE NAME = g:\ch07\0061\road\sheet\DI60012-SHT-501.dgn

USER NAME = BAW\bart
PLOT SCALE = 50.0000' / IN.
PLOT DATE = 8/5/2009

DESIGNED - JMG
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CHECKED - JRH
DATE - 07/24/2009

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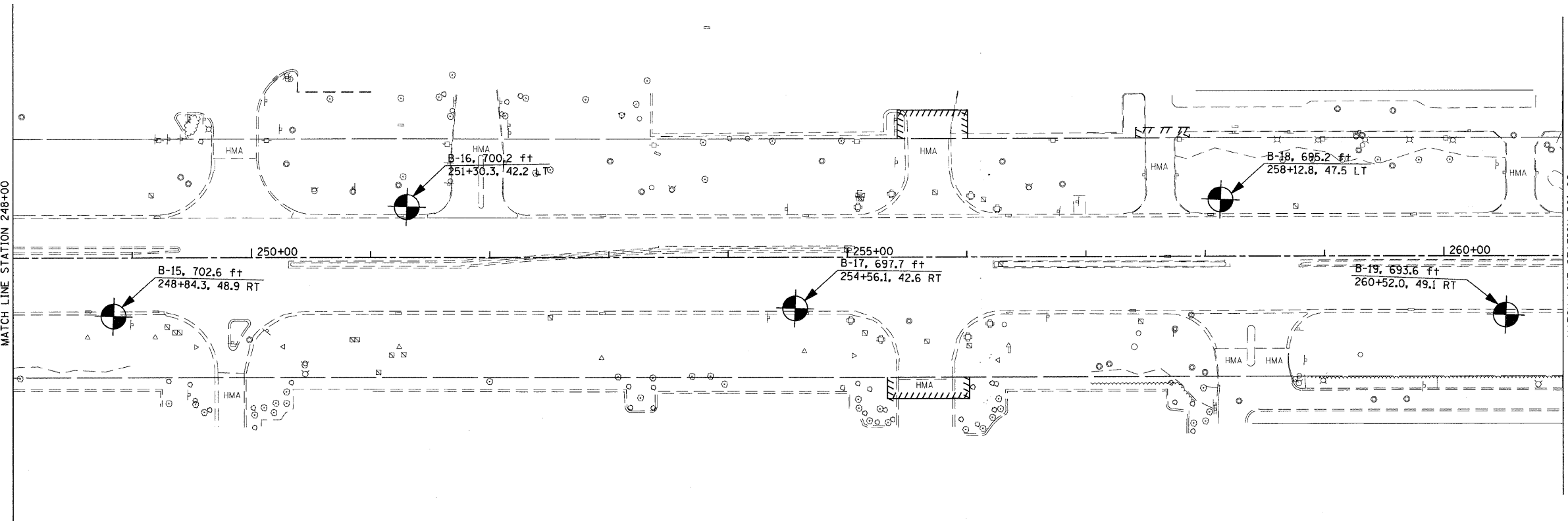
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

22nd STREET BORING LOCATION PLANS

SCALE: 1"=50' SHEET NO. 242 OF 362 SHEETS STA. 236+00 TO STA. 248+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1453	55WRS	DuPAGE	362	242
FED. ROAD DIST. NO. 7 (ILLINOIS) FED. AID PROJECT			CONTRACT NO. 60D12	

SEE SHEET NO. 242
MATCH LINE STATION 248+00

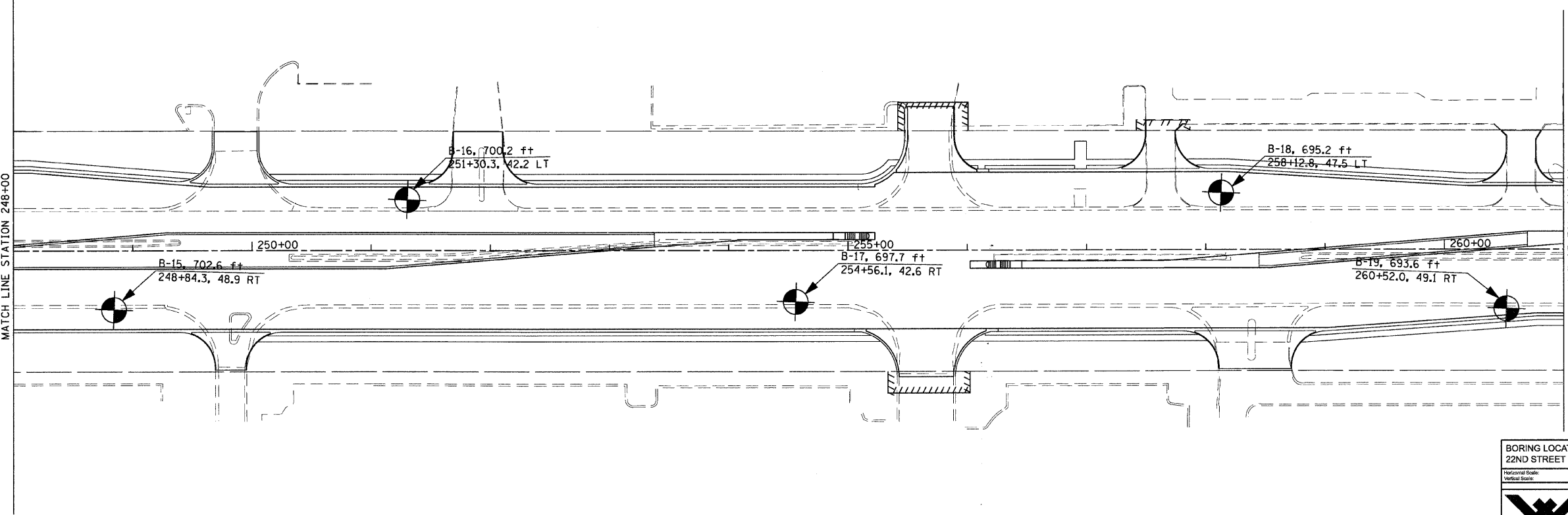


MATCH LINE STATION 261+00
SEE SHEET NO. 244

NOTES:
1. ALL SURFACES ARE CONCRETE UNLESS OTHERWISE NOTED.



SEE SHEET NO. 242
MATCH LINE STATION 248+00



MATCH LINE STATION 261+00
SEE SHEET NO. 244



BORING LOCATION PLANS AND SOIL PROFILES:
22ND STREET IMPROVEMENTS, IDOT PROJECT NO. D-91-312-07

Horizontal Scale: _____ Vertical Scale: _____

Sheet 5 of 11

Drawn By: W. Wang
Checked By: S. Baglioni

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FOR TRANSYSTEMS CORPORATION 790-31-01

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1453	55WRS	DuPAGE	362	243

CONTRACT NO. 60D12

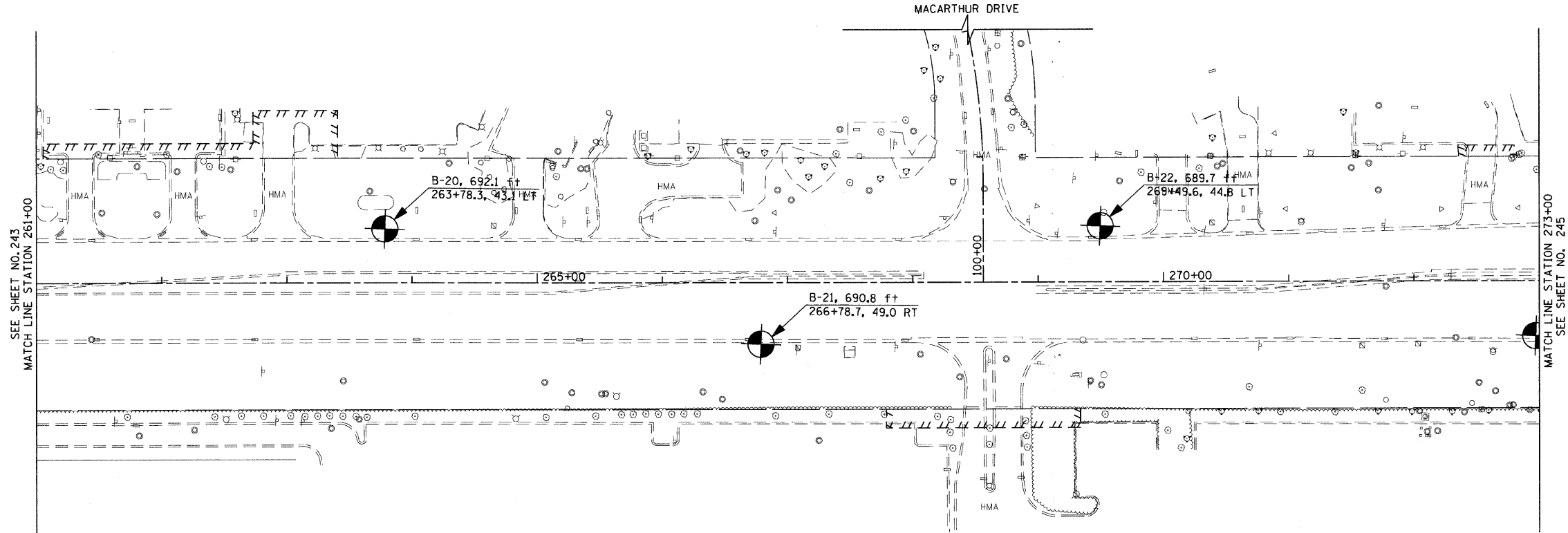
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT

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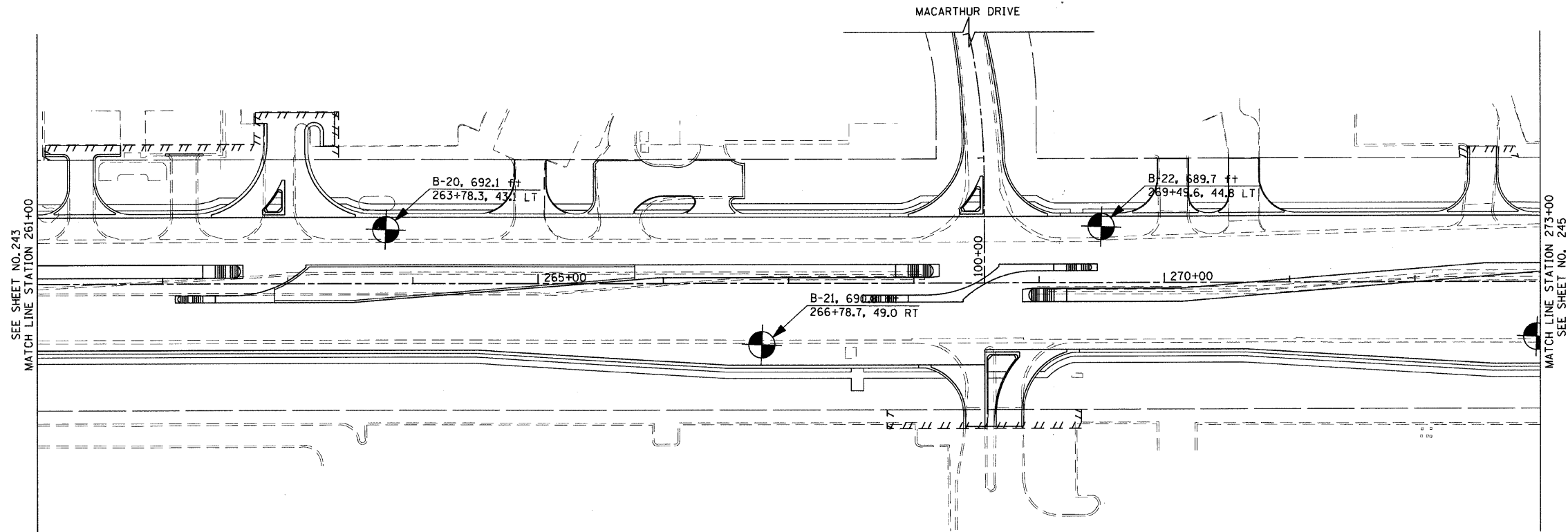
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

22nd STREET BORING LOCATION PLANS

SCALE: 1"=50' SHEET NO. 243 OF 362 SHEETS STA. 248+00 TO STA. 261+00



NOTES:
 1. ALL SURFACES ARE CONCRETE UNLESS OTHERWISE NOTED.



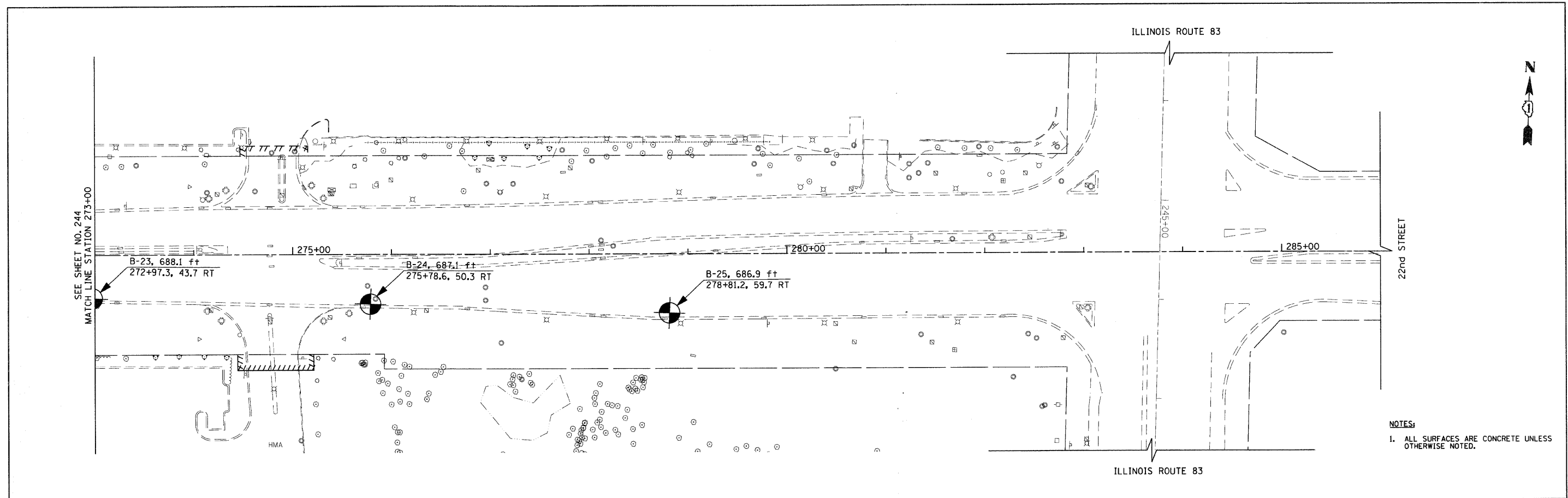
BORING LOCATION PLANS AND SOIL PROFILES: 22ND STREET IMPROVEMENTS, IDOT PROJECT NO. D-91-312-07				
Horizontal Scale:		Sheet 6 of 11		Drawn By: W. Wang
Vertical Scale:				Checked By: S. Sargent
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FOR TRANSYSTEMS CORPORATION				
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1453	55WRS	DuPAGE	362	244
CONTRACT NO. 60D12				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

FILE NAME =	USER NAME = BAW1001	DESIGNED - JMG	REVISED -
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	PLOT DATE = 8/5/2009	DATE - 07/24/2009	REVISED -

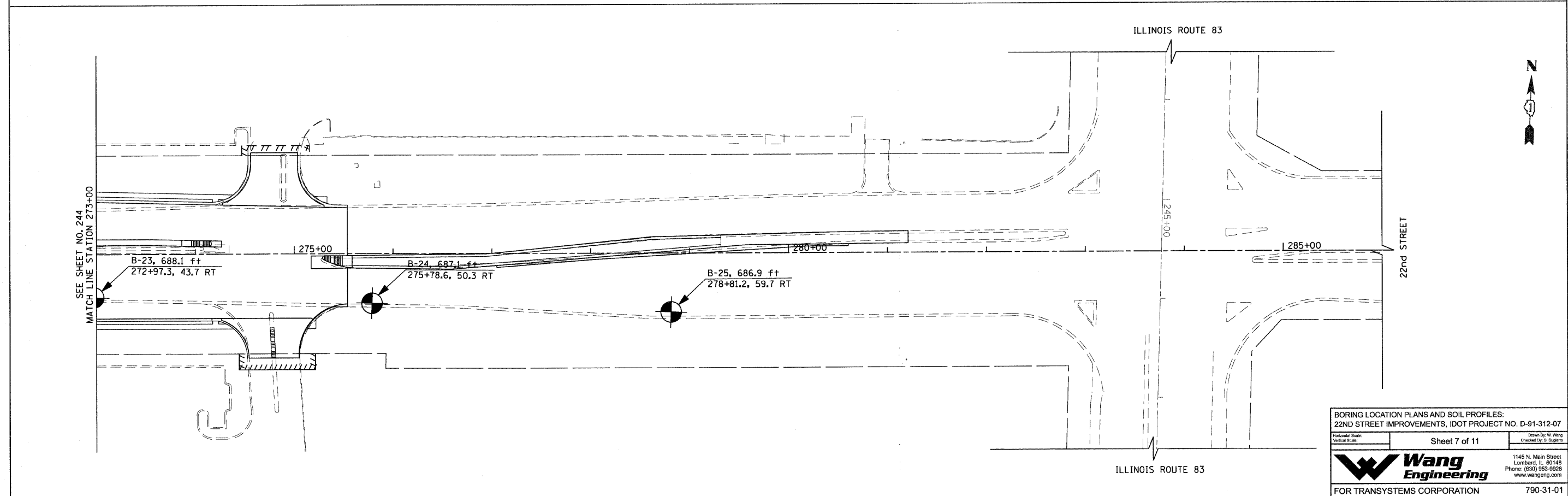
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

22nd STREET BORING LOCATION PLANS

SCALE: 1"=50' SHEET NO. 244 OF 362 SHEETS STA. 261+00 TO STA. 273+00



NOTES:
1. ALL SURFACES ARE CONCRETE UNLESS OTHERWISE NOTED.



BORING LOCATION PLANS AND SOIL PROFILES:
22ND STREET IMPROVEMENTS, IDOT PROJECT NO. D-91-312-07
Horizontal Scale: _____ Vertical Scale: _____
Sheet 7 of 11
Drawn By: W. Wang
Checked By: S. Suprenant

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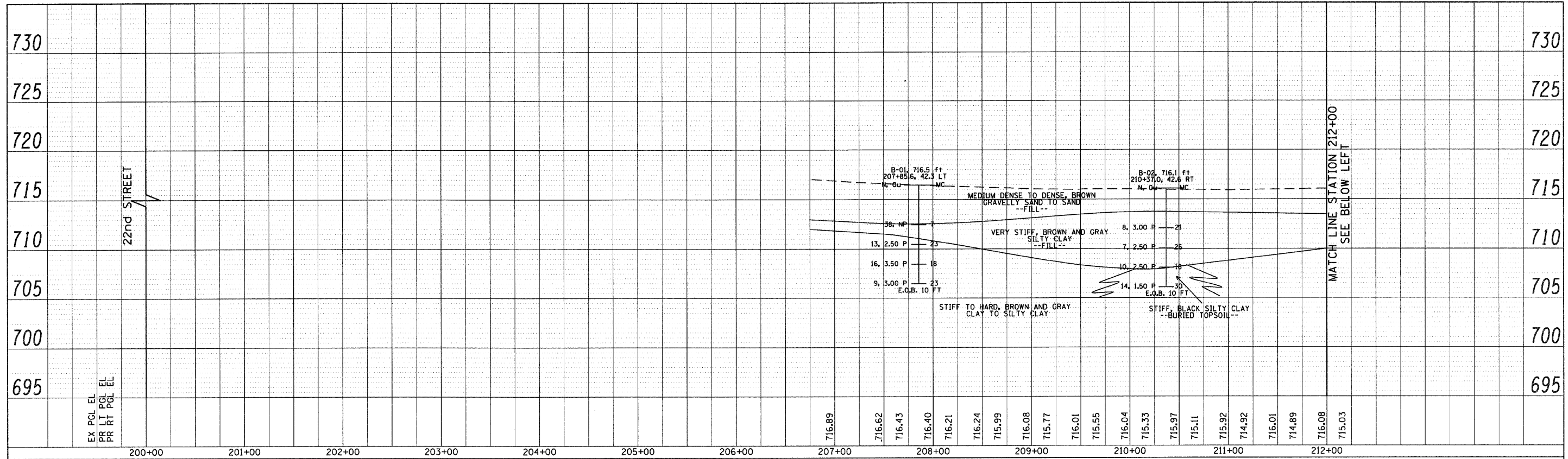
FOR TRANSYSTEMS CORPORATION		790-31-01
F.A.U. RTE.	SECTION	COUNTY
1453	55WRS	DuPAGE
TOTAL SHEETS NO.		362
CONTRACT NO.		60D12
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT		

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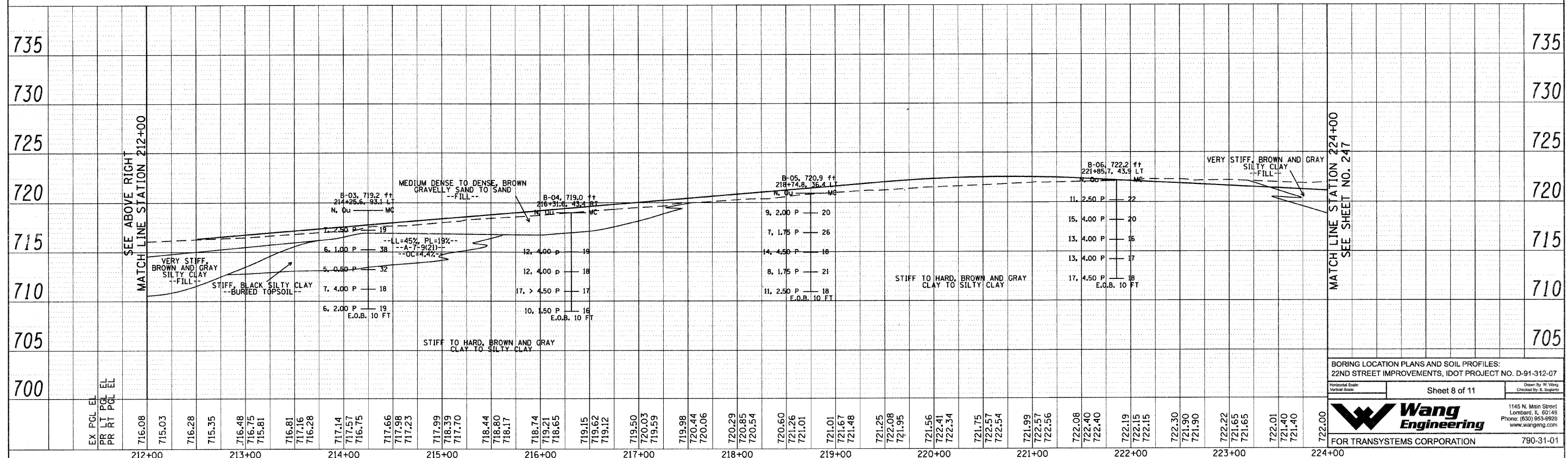
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

22nd STREET BORING LOCATION PLANS
SCALE: 1"=50' SHEET NO. 245 OF 362 SHEETS STA. 273+00 TO STA. 286+00

PLAN	SUBMITTED	DATE
NOTE BOOK	PLOTTED	BY
NO.	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	DATE FILE NAME	



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



BORING LOCATION PLANS AND SOIL PROFILES:
22ND STREET IMPROVEMENTS, IDOT PROJECT NO. D-91-312-07

Horizontal Scale: _____ Vertical Scale: _____

Sheet 8 of 11

Drawn By: W. Wang
Checked By: S. Sargent



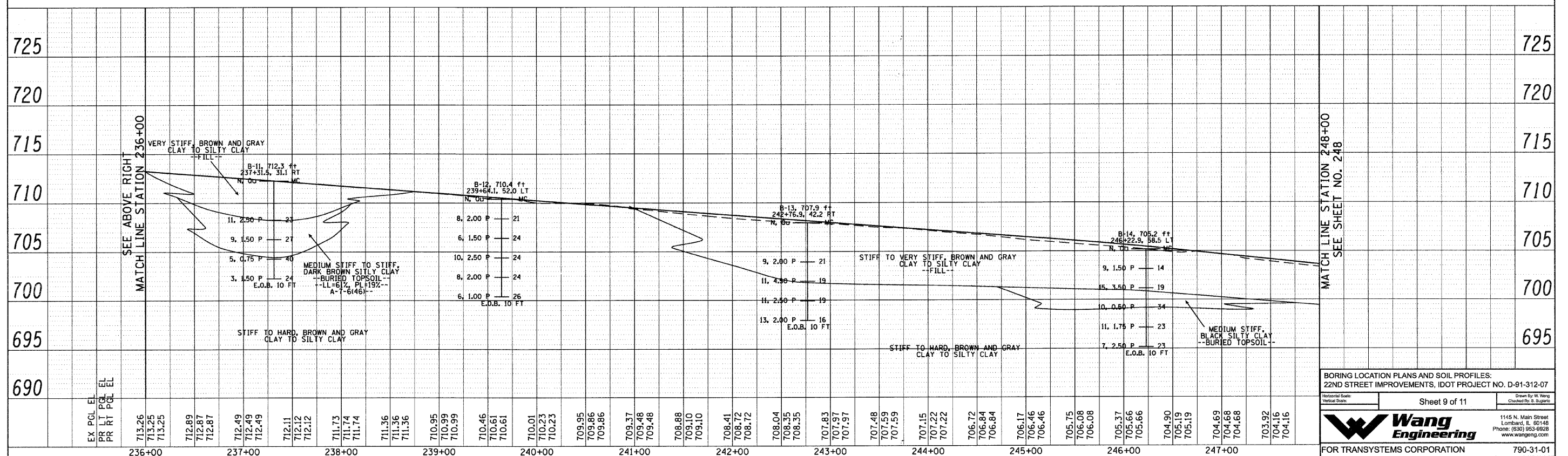
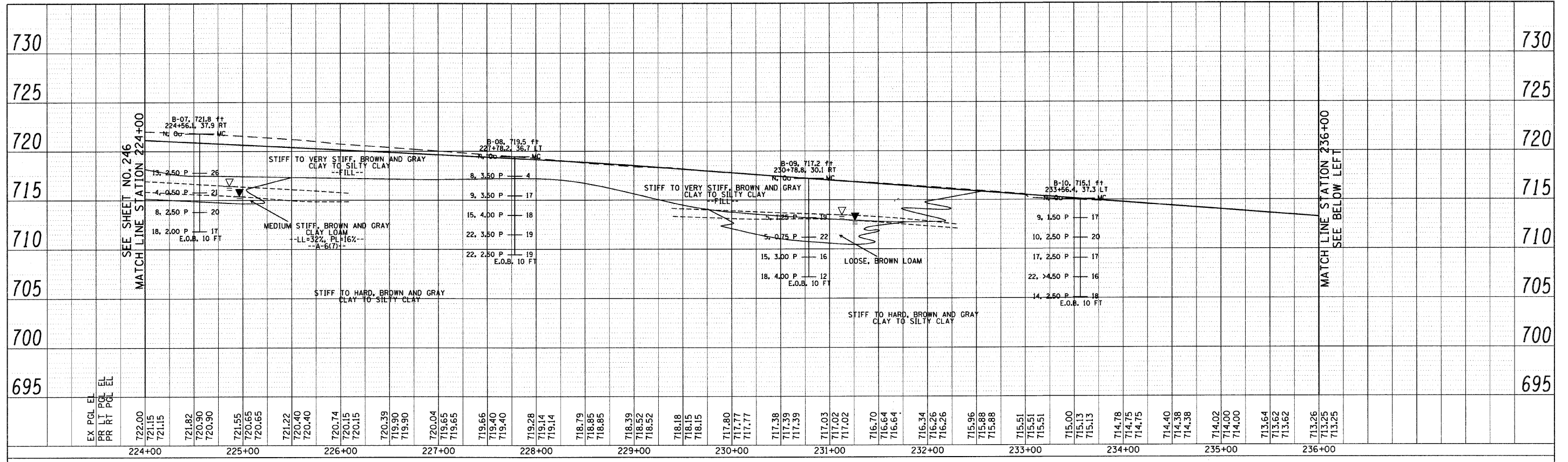
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FOR TRANSYSTEMS CORPORATION 790-31-01

FILE NAME =	USER NAME = BAWstart	DESIGNED - JMG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	22nd STREET SOIL PROFILES				F.A.U. R.T.E. 1453	SECTION 55WRS	COUNTY DuPAGE	TOTAL SHEETS 362	SHEET NO. 246	
g:\ch87\0001\road\sheets\DI60012-SHT-SOIL_08.dgn		DRAWN - JMG	REVISED -		SCALE: HORIZ: 1"=50' VERT: 1"=5'				SHEET NO. 246 OF 362 SHEETS		STA. 200+00 TO STA. 224+00		FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT	
PLOT SCALE = 50.0000' / IN.		CHECKED - JRH	REVISED -		CONTRACT NO. 60D12									
PLOT DATE = 8/5/2009		DATE - 07/24/2009	REVISED -											

PLAN	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	CHECKED	
	STRUCTURE	
	NOTATIONS	
	CHKD	
	FILE NAME	

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



FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	22nd STREET SOIL PROFILES	SCALE: HORIZ: 1"=50' VERT: 1"=5'	SHEET NO. 247 OF 362 SHEETS	STA. 224+00 TO STA. 248+00	F.A.U. RITE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
gr\ch07\0061\road\shets\DI60D12-SH1-SOIL.dgn	= BAN\start	DRAWN -	REVISED -						1453	55WRS	DuPAGE	362	247
		CHECKED -	REVISED -						CONTRACT NO. 60D12				
		DATE -	REVISED -						FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

BORING LOCATION PLANS AND SOIL PROFILES:
 22ND STREET IMPROVEMENTS, IDOT PROJECT NO. D-91-312-07

Horizontal Scale: _____
 Vertical Scale: _____

Sheet 9 of 11

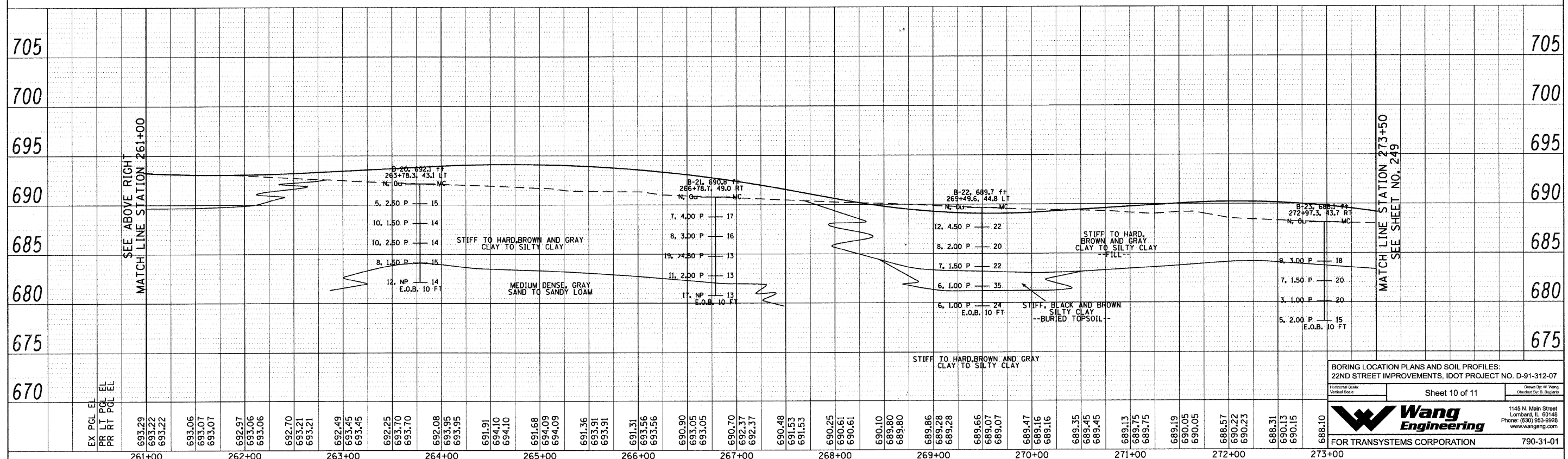
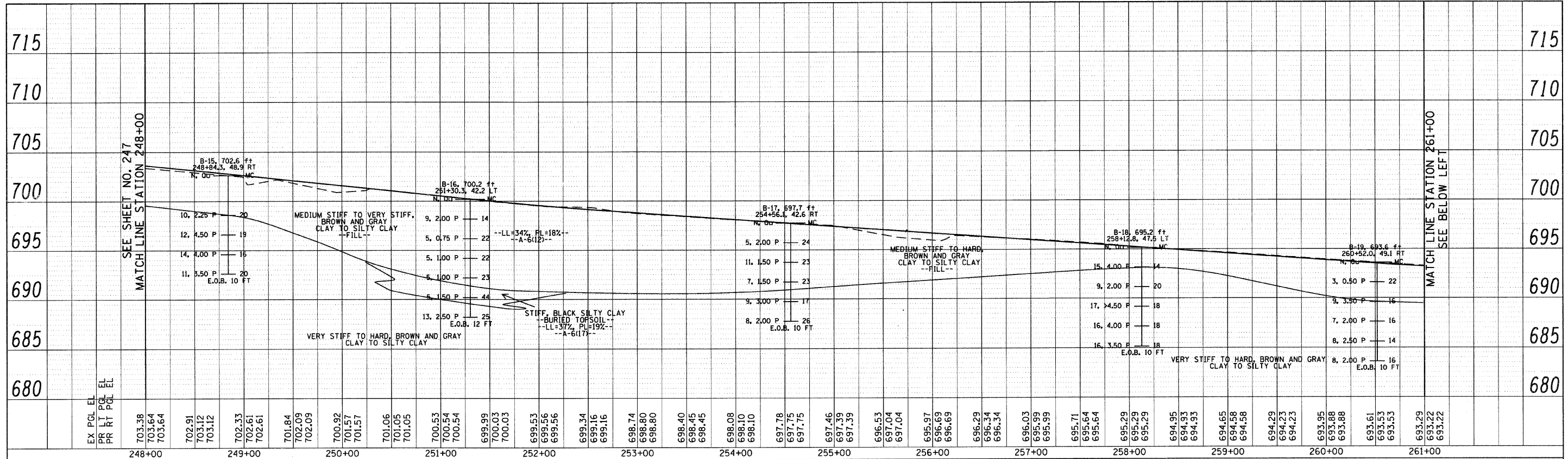
Drawn By: W. Henry
 Checked By: S. Suggs

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PLAN	SURVEYED	DATE
NO.	BY	
NO.	BY	
NO.	BY	

PROFILE	SURVEYED	DATE
NO.	BY	
NO.	BY	
NO.	BY	



FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	22nd STREET SOIL PROFILES	SCALE: HORIZ. 1"=50' VERT. 1"=5'	SHEET NO. 248 OF 362 SHEETS	STA. 248+00 TO STA. 273+50	SECTION 55WRS	COUNTY DuPAGE	TOTAL SHEETS 362	SHEET NO. 248
gr\ch\07\081\road\sheet\DI60D12-SHT-SOIL.dgn	BAWtor	DRAWN -	REVISED -									
		CHECKED -	REVISED -									
		DATE -	REVISED -									

BORING LOCATION PLANS AND SOIL PROFILES:
22ND STREET IMPROVEMENTS, IDOT PROJECT NO. D-91-312-07

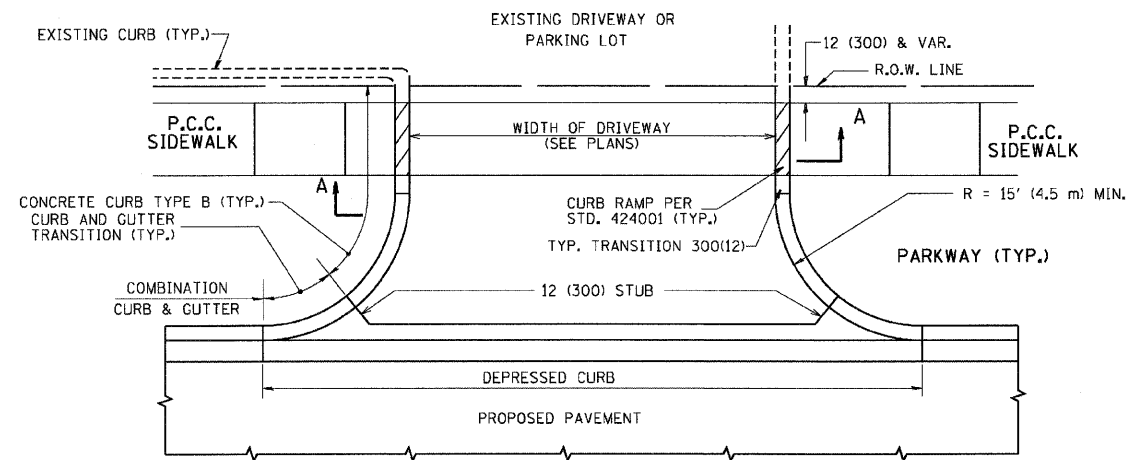
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Sheet 10 of 11

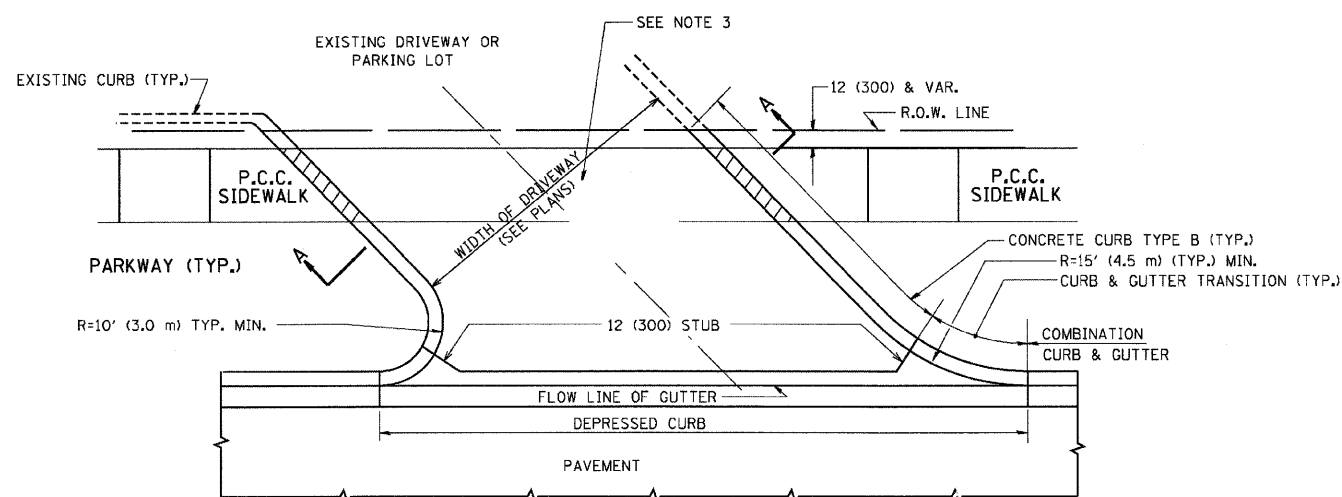
Drawn By: W. Wang
Checked By: S. Bagley

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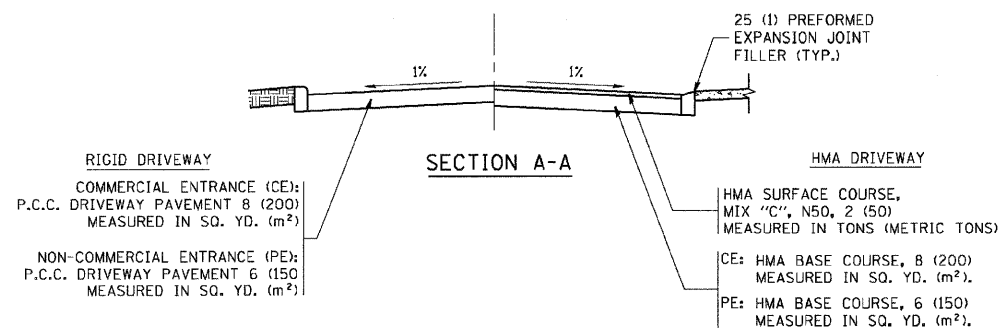
FOR TRANSYSTEMS CORPORATION 790-31-01



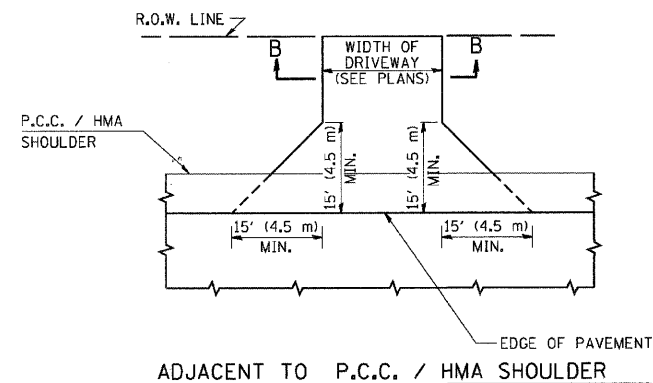
WITH CONCRETE CURB, TYPE B



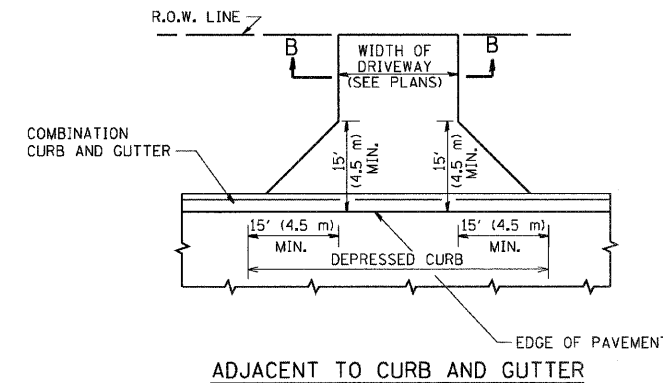
WITH CONCRETE CURB, TYPE B



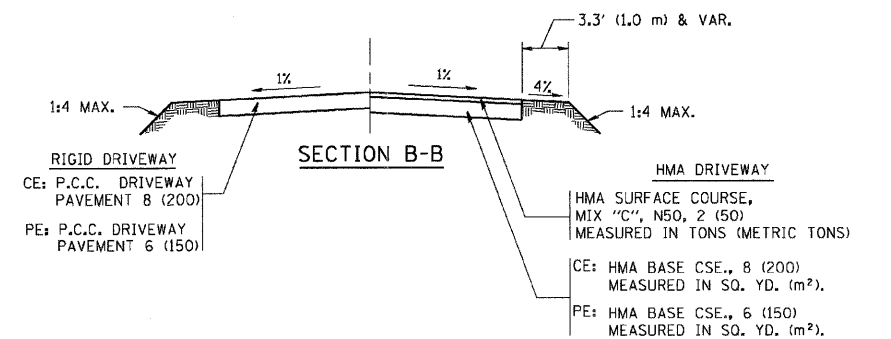
SECTION A-A



ADJACENT TO P.C.C. / HMA SHOULDER



ADJACENT TO CURB AND GUTTER



SECTION B-B

GENERAL NOTES:

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.

COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

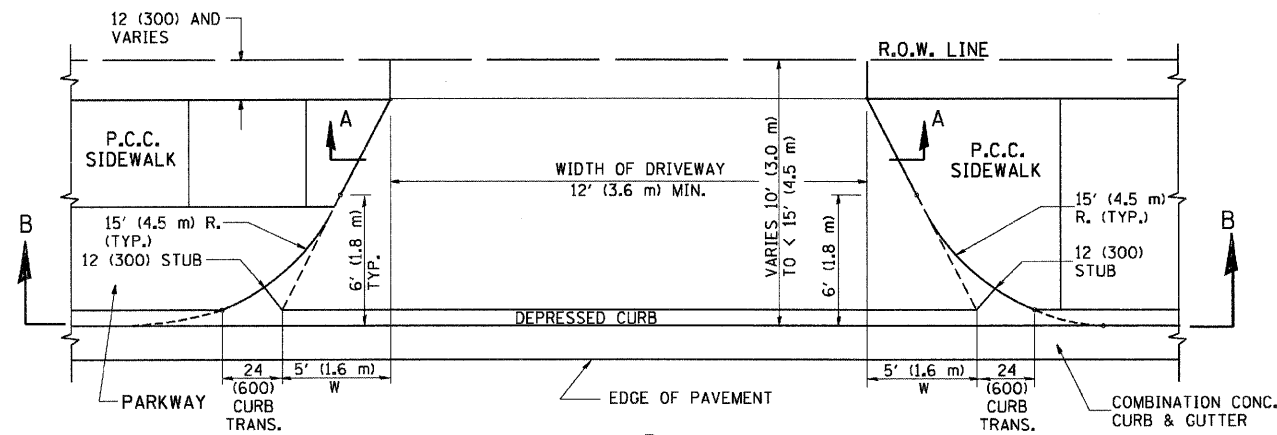
THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

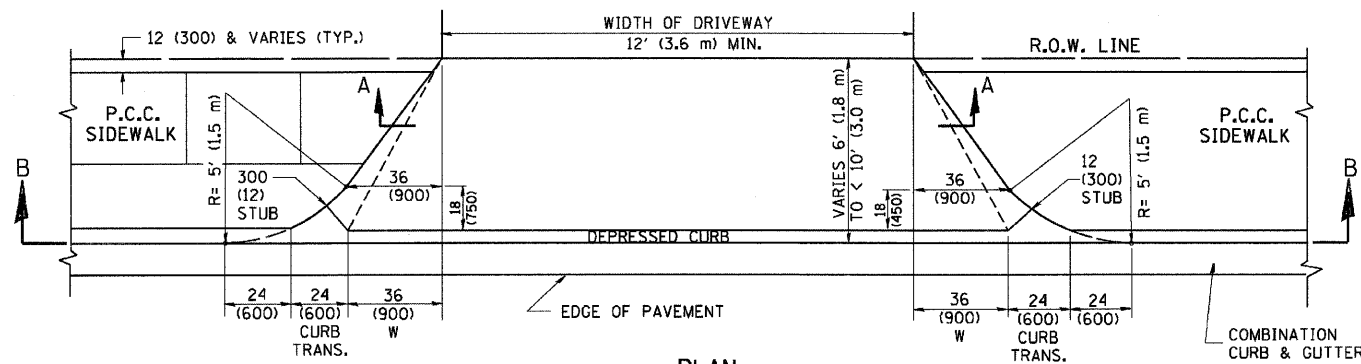
1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

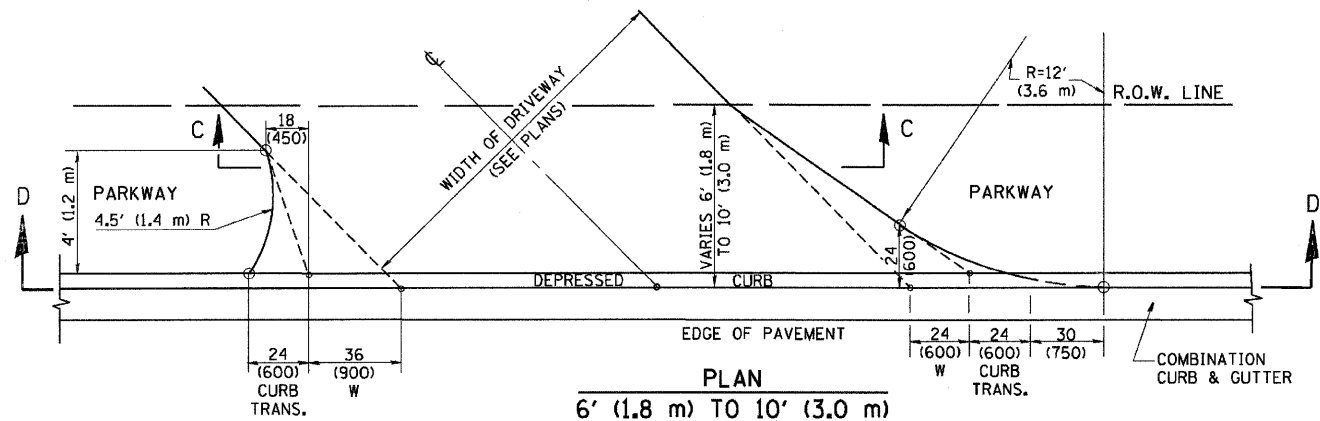
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PLOT SCALE = 49,9999' / IN.	CHECKED -	REVISOR - P. LOFLUER 04-15-03	REVISOR - R. BORO 01-01-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	BD0156-07 (BD-01)		CONTRACT NO. 60D12		
PLOT DATE = 6/12/2008	DATE - 11-04-95	REVISOR - R. BORO 06-11-08			FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT							



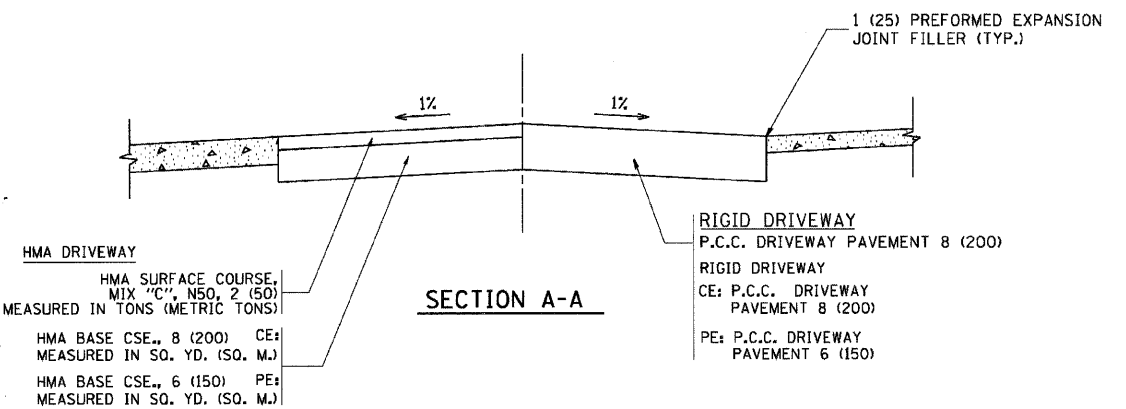
PLAN
10' (3.0 m) TO < 15' (4.5 m)



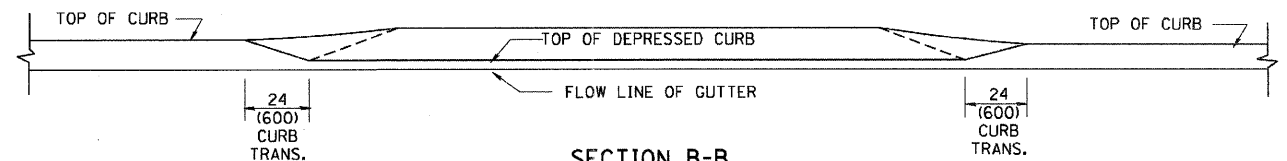
PLAN
6' (1.8 m) TO < 10' (3.0 m)



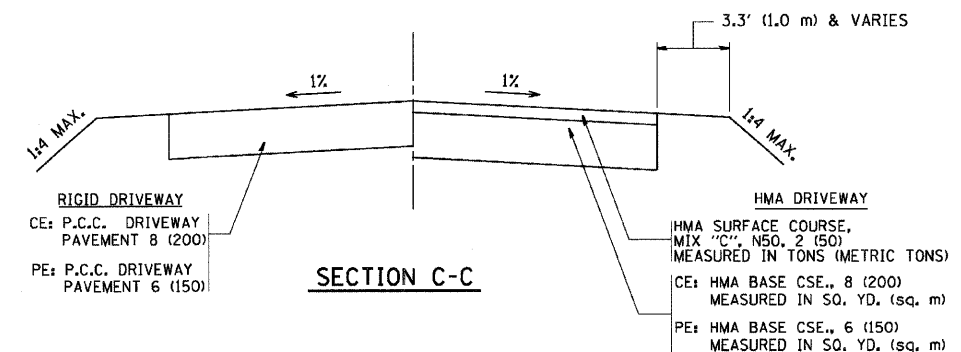
PLAN
6' (1.8 m) TO 10' (3.0 m)



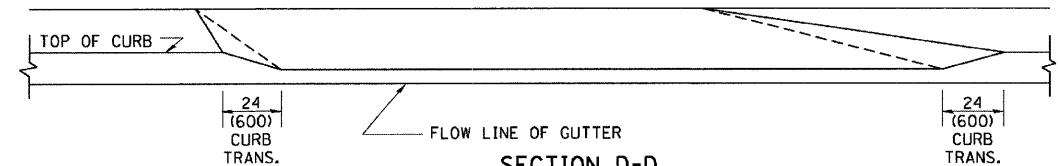
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

GENERAL NOTES

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATION 10 IN THE PERMIT HANDBOOK. WHERE SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED WITH RIGID PAVEMENT. WHERE NO SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED IN KIND. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

WHEN THE DISTANCE BETWEEN R.O.W. AND THE BACK OF CURB IS EQUAL TO OR LESS THAN 8' (2.4 m), THE P.C.C. SIDEWALK SHALL EXTEND TO THE BACK OF CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

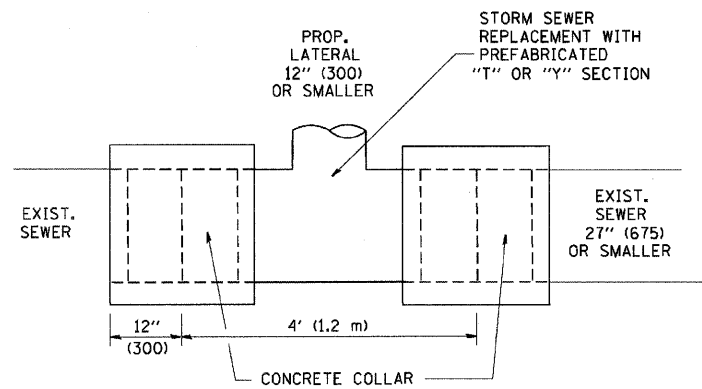
COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

THE 1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

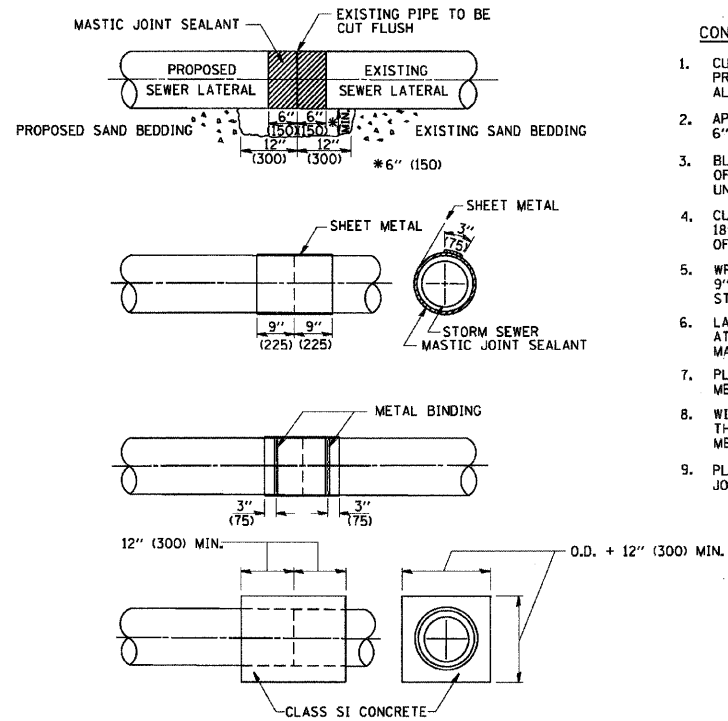
"W" VARIES FROM 36 (900) TO 5' (1.5 m) PROPORTIONAL TO THE LENGTH (L), FROM 6' (1.8 m) TO 10' (3 m).

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

FILE NAME = W:\distat\22x34\bd02.dgn	USER NAME = geglano	DESIGNED - R. SHAH	REVISED - T. HOLTZ 04-08-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRIVEWAY DETAILS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED - M. GOMEZ 04-06-01		DISTANCE BETWEEN ROW AND FACE OF CURB < 15' (4.5 m)			1453	55WRS	DuPAGE	362	251
		CHECKED -	REVISED - P. LOFLEUR 04-15-03		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.			BD400-02 (BD-02) CONTRACT NO. 60D12				
		DATE - 11-06-95	REVISED - R. BORO 01-01-07		FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT							



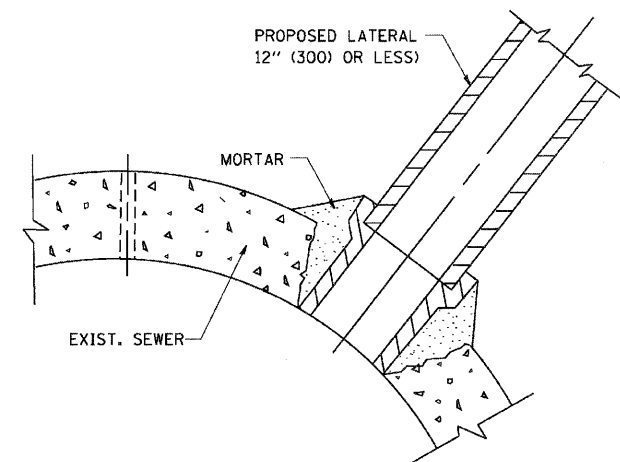
DETAIL "A"
LATERAL CONNECTION TO EXISTING SEWER
OF 27" (675) OR SMALLER



DETAIL "B"
CLASS SI CONCRETE COLLAR

CONSTRUCTION SEQUENCE

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



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

NOTES

MATERIAL

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

CONSTRUCTION METHODS

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

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

GENERAL

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

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

BASIS OF PAYMENT

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

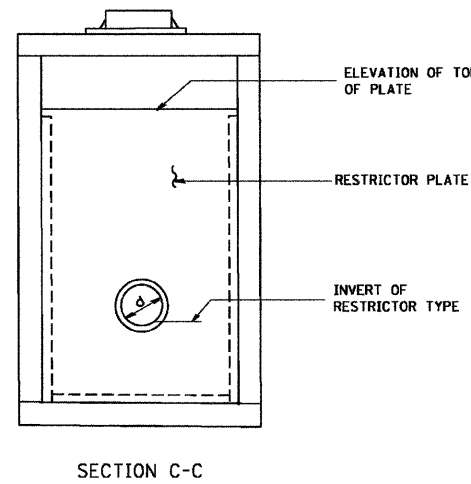
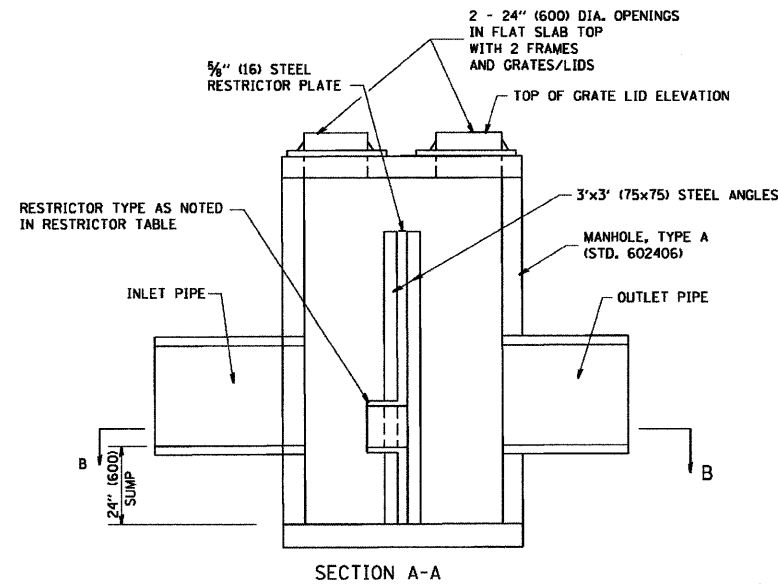
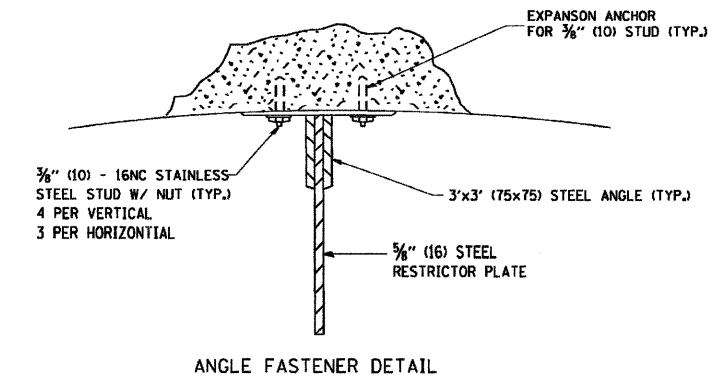
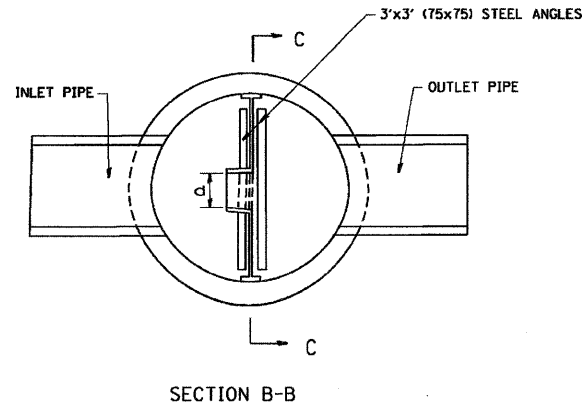
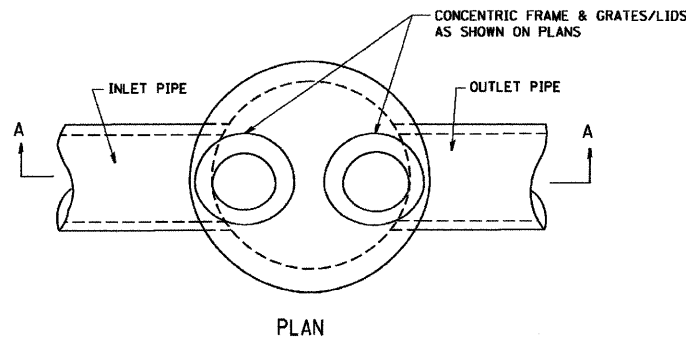
REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.

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

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

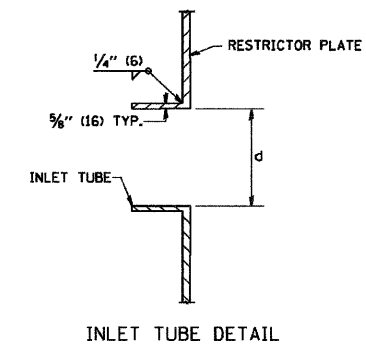
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = W:\distato\22x34\bd07.dgn	USER NAME = gaglianobt	DESIGNED - M. DE YONG	REVISED - M. DE YONG 05-08-92	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN -	REVISED - R. SHAH 09-09-94		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	1453	55WRS	DuPAGE	362	252
		CHECKED -	REVISED - R. SHAH 10-25-94					BD500-01 (BD-7)			CONTRACT NO. 60D12		
		DATE - 07-25-90	REVISED - R. SHAH 06-12-96					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

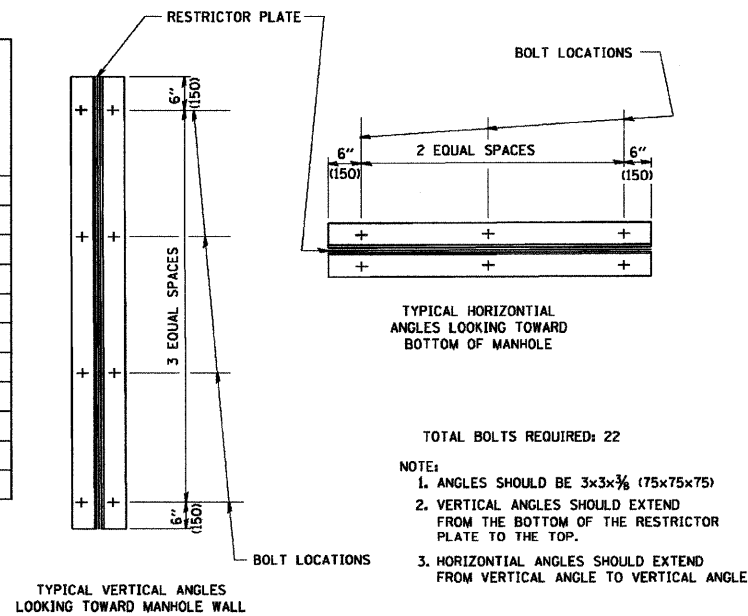


NOTES:

1. ALL STEEL ANGLES AND PLATES TO BE GALVANIZED AFTER FABRICATION.
2. ALL RESTRICTOR PLATES, ANGLES AND HARDWARE TO BE INCLUDED IN THE COST OF THE MANHOLE.
3. BASIS OF PAYMENT: "MANHOLES, TYPE A, 6 FT. (1.8 M) DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE" EACH



STR NUMBER	STATION	MANHOLE DIAMETER	FRAME AND GRATE	RESTRICTOR TYPE	INSIDE RESTRICTOR TYPE DIAMETER in. (mm) (d)	INVERT OF RESTRICTOR TYPE	ELEVATION OF TOP OF PLATE OVERFLOW
1-13	209+95.0, 63.1' RT	6	2 T1F CL	SHARP EDGED	17	704.89	709.79
4-31	242+90.0, 78.0' LT	6	2 T1F CL	SHARP EDGED	23	701.28	704.62
5-4	251+23.9, 65.0' LT	6	2 T1F CL	SHARP EDGED	10	693.52	696.80
5-47	257+30.0, 77.0' RT	6	2 T1F CL	SHARP EDGED	13	686.53	691.17
5-49	253+40.8, 73.5' LT	6	2 T1F CL	SHARP EDGED	11	685.62	689.48
6-34	269+42.0, 65.0' LT	6	2 T1F CL	SHARP EDGED	18	683.26	685.91



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

VALUES OF "C" FOR CIRCULAR AND SQUARE ORIFICES

STEEL ANGLE BOLTING DETAILS

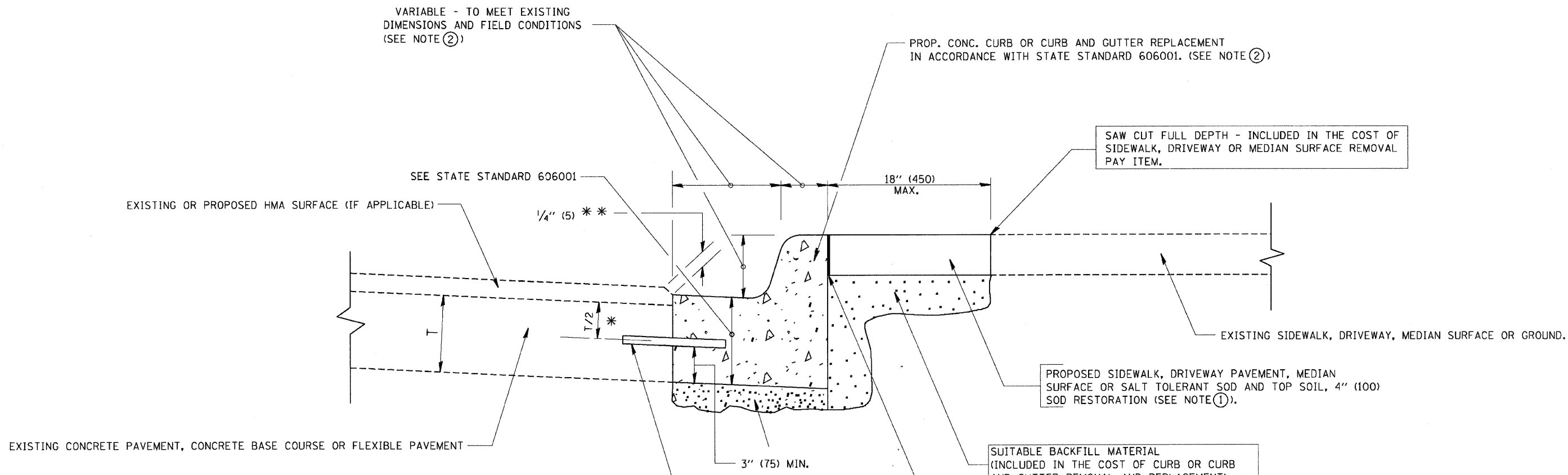
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = W:\distatd\22\34\bol2.dgn	USER NAME = gegljanobt	DESIGNED - R. SHAH	REVISED - R. SHAH 10-25-94
	PLOT SCALE = 58.000' / IN.	DRAWN -	REVISED - E. GOMEZ 08-28-00
	PLOT DATE = 1/4/2008	CHECKED -	REVISED - M. GOMEZ 01-08-01
		DATE - 09-09-94	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MANHOLE WITH RESTRICTOR PLATE			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A. - RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1453	55WRS	DUPAGE	362	253
BD600-04 (BD-12) CONTRACT NO. 60D12				
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				



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

NOTE: ① SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.

SALT TOLERANT SOD AND TOP SOIL, 4" (100) RESTORATION WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

② CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.

③ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.

④ LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑤ THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑥ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.

⑦ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE.

REMOVAL AND REPLACEMENT 4" (100) OR LESS IS INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

REMOVAL AND REPLACEMENT IN EXCESS OF 4" (100) WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT 24" (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USUABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE ③).

BASIS OF PAYMENT:

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT (METER) FOR "CURB REMOVAL AND REPLACEMENT" OR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

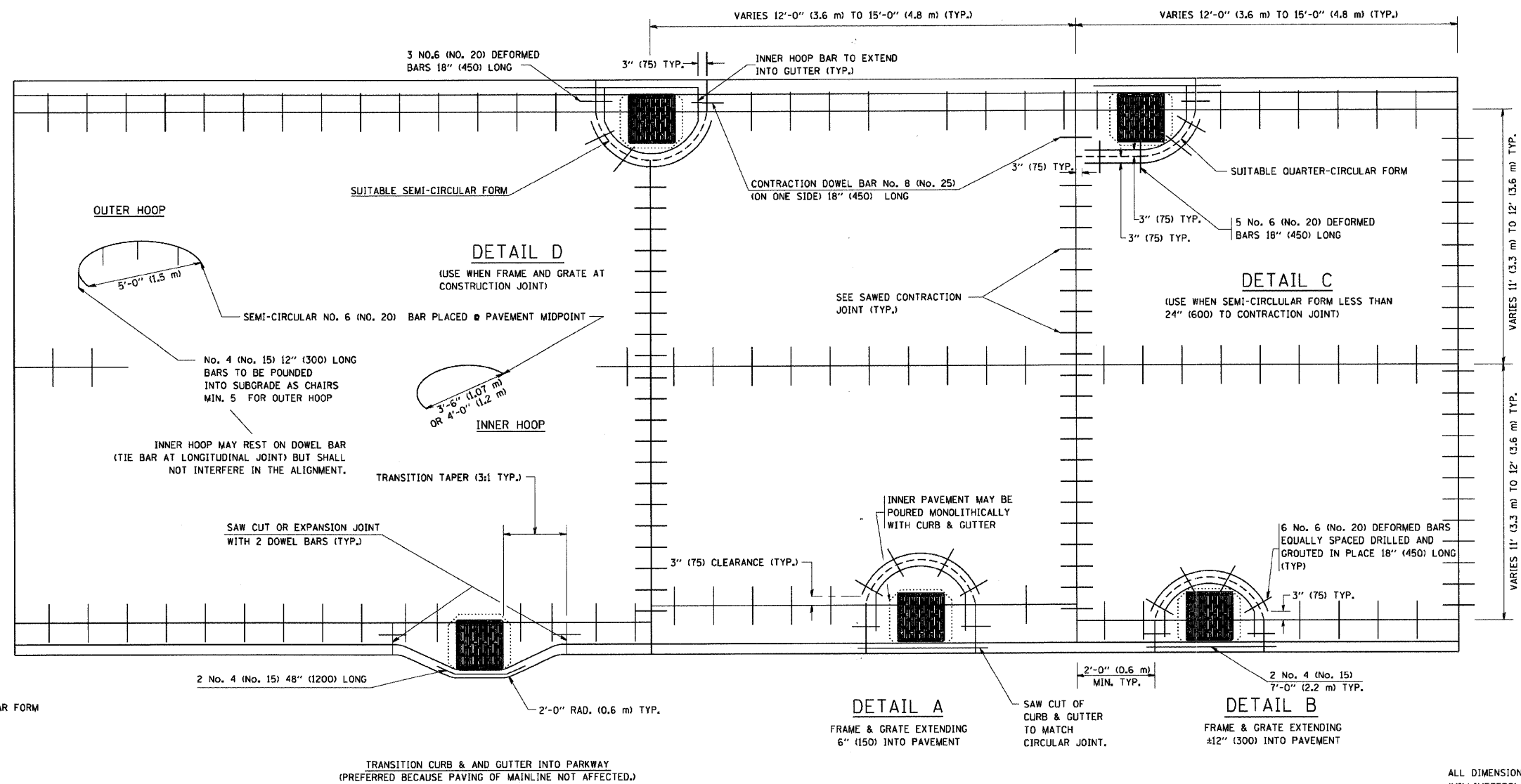
FILE NAME = W:\diststd\22x34\bd24.dgn	USER NAME = goglienobt	DESIGNED - A. HOUSEH	REVISED - R. SHAH 10-03-96	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT	F.A. RTE. = 1453	SECTION = 55WRS	COUNTY = DuPAGE	TOTAL SHEETS = 362	SHEET NO. = 255
PLOT SCALE = 50,000 "/>										

FRAME EXTENSION INTO PAVEMENT	INNER HOOP REINFORCEMENT DIAMETER	SEMI CIRCULAR FORM DIAMETER	OUTER HOOP REINFORCEMENT DIAMETER
UP TO 8" (200)	3'-6" (1.1 m)	4'-0" (1.2 m)	5'-0" (1.5 m)
> 8" (200) TO 14" (360)	4'-0" (1.2 m)	4'-6" (1.4 m)	5'-0" (1.5 m)

DESIGNER NOTE:
THIS DETAIL IS TO BE USED
WHEN THE GUTTER FLAG IS
LESS THAN 24"

NOTES :

1. THE ROUNDOUT AND ADDED REINFORCEMENT WILL NOT BE PAID SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE PAVEMENT.
2. TRANSVERSE JOINTS MAY BE MOVED TO ACCOMMODATE ROUNDOUT, EDGE OF CIRCULAR JOINT SHALL BE MINIMUM 12" (300) FROM TRANSVERSE JOINT, RELOCATED TRANSVERSE JOINT SHALL BE CONTINUOUS FROM EDGE OF PAVEMENT TO EDGE OF PAVEMENT.
3. SEMI-CIRCULAR FORM SHALL BE REMOVED PRIOR TO DRILL AND GROUT OF TIE BARS.
4. ALL REINFORCED BARS SHALL BE EPOXY COATED.
5. DRILL AND GROUT IS PREFERRED, HOWEVER TIE BARS CAN BE POURED IN PLACE IF CLEARANCE IS PROVIDED TO OUTER EDGE OF FRAME. MINIMUM 2" (50) CLEARANCE.
6. WOOD SHIMS SHALL BE USED TO ADJUST ALL FRAMES. AFTER ADJUSTING MORTAR HAS CURED, THE WOOD SHIMS SHALL BE REMOVED AND THE VOIDS UNDER THE FRAMES FILLED WITH NON SHRINK GROUT.
7. HOOP REINFORCEMENT SHALL BE ONE PIECE CONSTRUCTION.
8. CIRCULAR FRAMES AND GRATES MAY BE SUBSTITUTED.
9. CURB DOWELS MUST BE PLACED LEVEL & TRUE TO ALLOW CONTRACTION MOVEMENT.

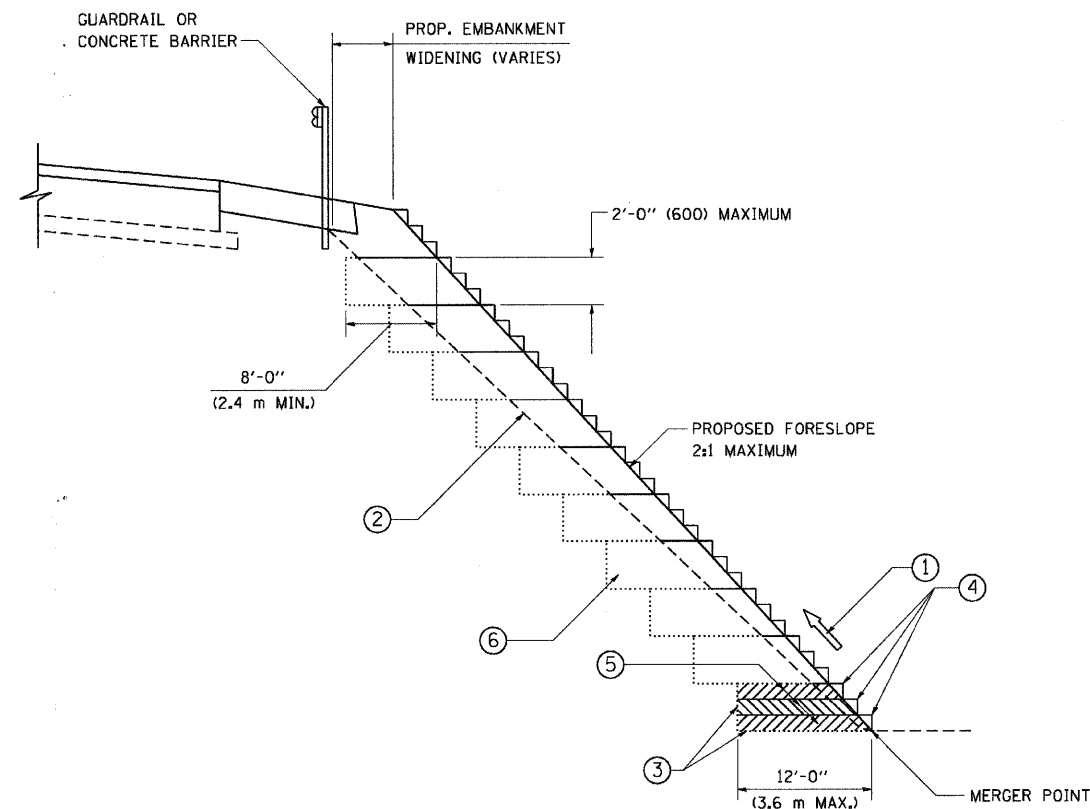


LEGEND:

- CASTING
- SUITABLE SEMI-CIRCULAR FORM

ALL DIMENSIONS ARE IN INCHES
(MILLIMETERS) UNLESS OTHERWISE NOTED

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		PCC PAVEMENT ROUNDOUTS AT CURB AND GUTTER			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
W:\dststd\22x34\bd48.dgn	gaglanobt	A. ABBAS	T. MATOUSEK 08-28-00			SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.			1453	55WRS	DUPAGE	362	256
		TOM MATOUSEK	T. MATOUSEK 10-02-00						BD-48			CONTRACT NO. 60D12	
		A. ABBAS	T. MATOUSEK 04-25-02						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
		01-04-99	P. LAFLEUR 08-27-02										



TYPICAL BENCHING DETAIL
FOR EMBANKMENT

NOTES:

- ① CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- ② EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
- ③ BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- ④ TRIM TO FINAL SLOPE.
- ⑤ EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
- ⑥ EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ⑦ SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 4:1 AND THE HEIGHT IS GREATER THAN 5' (1.5 m).

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

FILE NAME = W:\diststd\22x34\bd51.dgn	USER NAME = geglianobt	DESIGNED -	REVISED -
		DRAWN - CADD	REVISED -
		CHECKED - S.E.B.	REVISED -
		DATE - 06-16-04	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

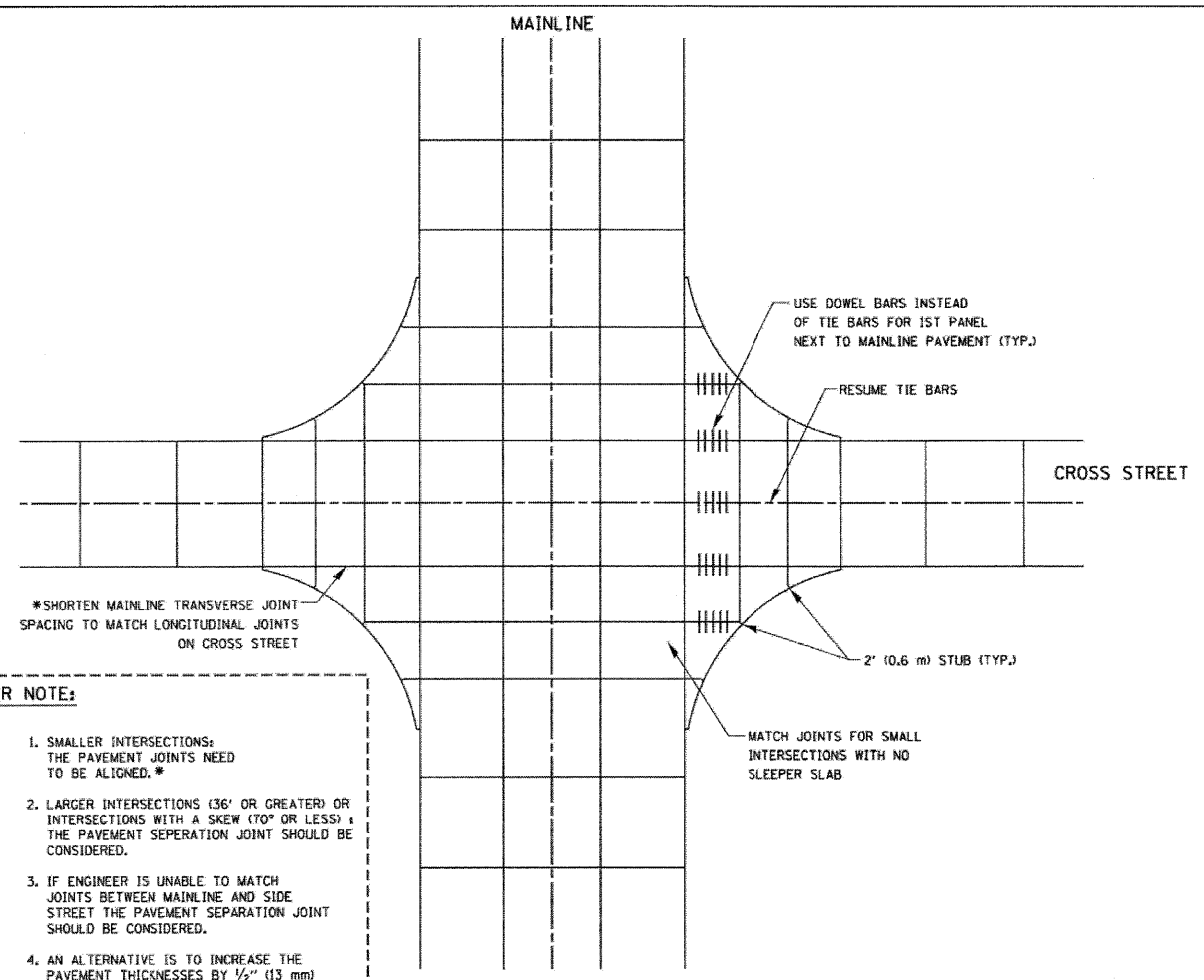
BENCHING DETAIL
FOR EMBANKMENT WIDENING

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1453	55WRS	DUPAGE	362	257
BD-51			CONTRACT NO.	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

P. J. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1453	55WRS	DUPAGE	362	258
STA.	TO STA.			
FED. ROAD DIST. NO. 7	SLURRY	FED. AID PROJECT		

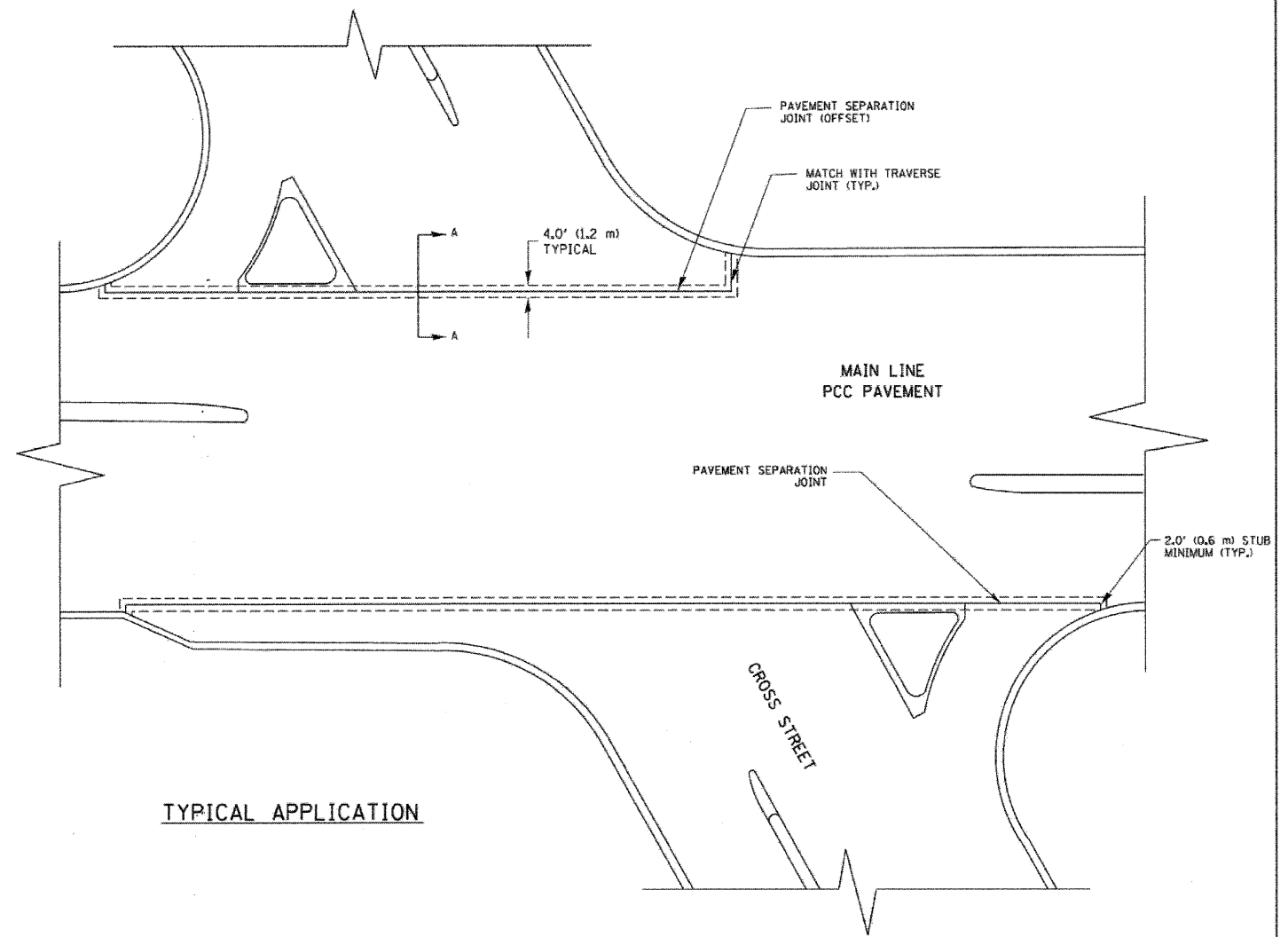
THE USE OF
CROSS STREET PAVEMENT SEPARATION JOINTS
FOR SKEWED OR LARGE INTERSECTIONS
WHERE JOINTS MAY NOT MATCH



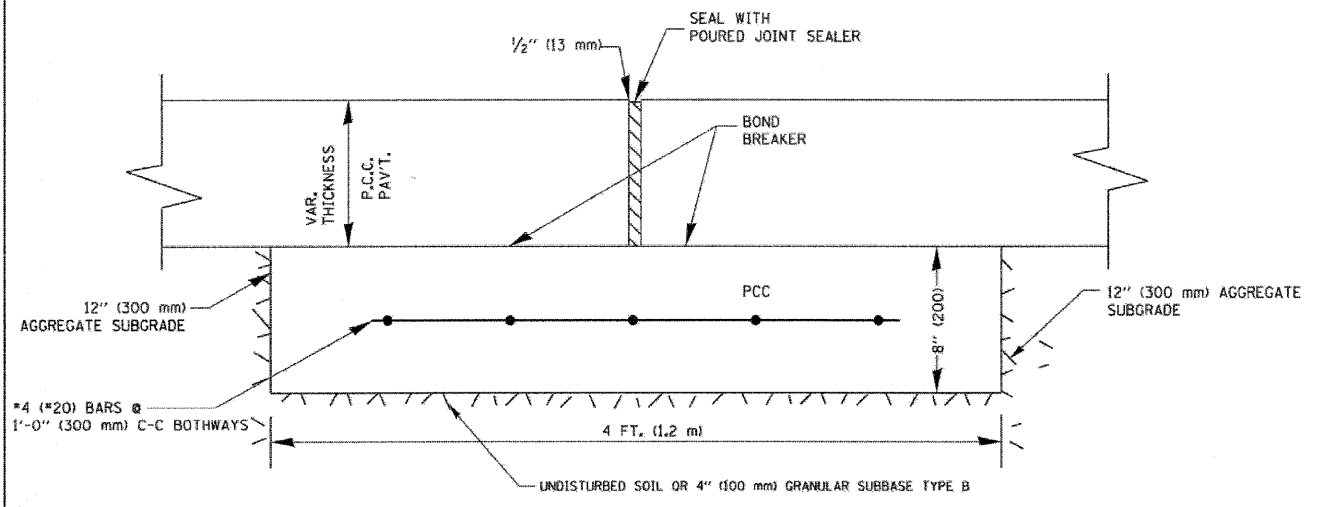
DESIGNER NOTE:

1. SMALLER INTERSECTIONS: THE PAVEMENT JOINTS NEED TO BE ALIGNED.*
2. LARGER INTERSECTIONS (36° OR GREATER) OR INTERSECTIONS WITH A SKEW (70° OR LESS): THE PAVEMENT SEPARATION JOINT SHOULD BE CONSIDERED.
3. IF ENGINEER IS UNABLE TO MATCH JOINTS BETWEEN MAINLINE AND SIDE STREET THE PAVEMENT SEPARATION JOINT SHOULD BE CONSIDERED.
4. AN ALTERNATIVE IS TO INCREASE THE PAVEMENT THICKNESSES BY 1/2" (13 mm) FOR THE LENGTH OF THE AFFECTED PANELS AT THE INTERSECTION.
5. FOR LARGE INTERSECTIONS (6 LANES OR MORE) WHERE JOINTS CAN BE MATCHED, USE #8 (25) DOWEL BARS INSTEAD OF #8 (25) TIE BARS AT EDGE OF MAINLINE PAVEMENT WHEN NO PAVEMENT SEPARATION JOINTS USED.

PLAN



TYPICAL APPLICATION



PROPOSED SECTION A-A

- NOTE:**
1. JOINT FILLER SHALL CONSIST OF A SHEET OF 1/2" (13 mm) BITUMINOUS PREFORMED FIBER JOINT FILLER CONFORMING TO ARTICLE 105L.03 OF THE STANDARD SPECIFICATIONS.
 2. THE JOINT SHALL BE SEALED WITH A HOT POUR JOINT SEALER CONFORMING TO ARTICLE 105O.02 OF THE STANDARD SPECIFICATIONS.
 3. A SINGLE LAYER OF FELT ROOFING PAPER SHALL SERVE AS A BOND BREAKER.
 4. JOINT SHALL CONTINUE THROUGH COMBINATION CURB & GUTTER OR PCC SHOULDER.
 5. PAVEMENT SEPARATION JOINT IS TO BE PAID FOR AS "SLEEPER SLAB" AND IS TO BE MEASURED IN PLACE BY THE LINEAL FOOT.
 6. BOND BREAKER AND 1/2" (13 mm) JOINT AND FILLER SHALL BE INCIDENTAL TO THE PAY ITEM "SLEEPER SLAB".

REVISIONS	
NAME	DATE

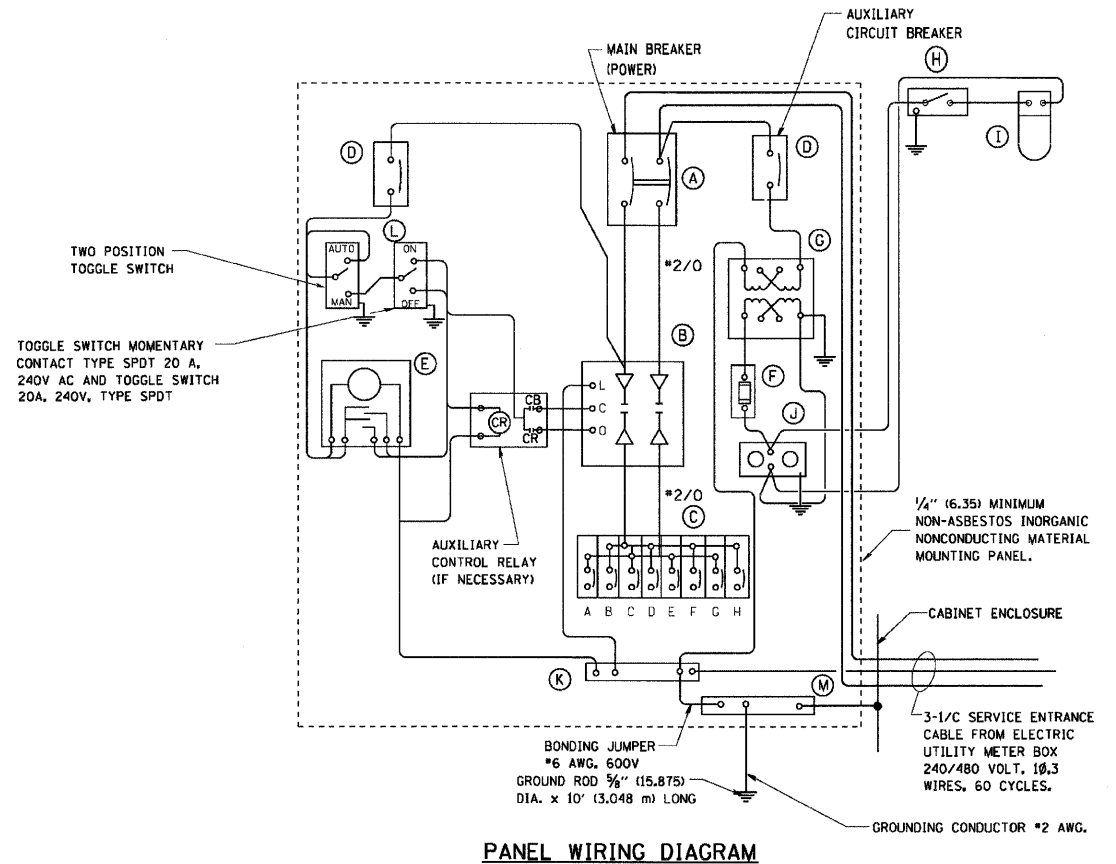
ILLINOIS DEPARTMENT OF TRANSPORTATION

DETAIL OF PAVEMENT SEPARATION JOINT FOR JOINTED PCC PAVEMENTS AT INTERSECTIONS

SCALE: NONE
DATE 12/27/2006

DRAWN BY:
CHECKED BY:

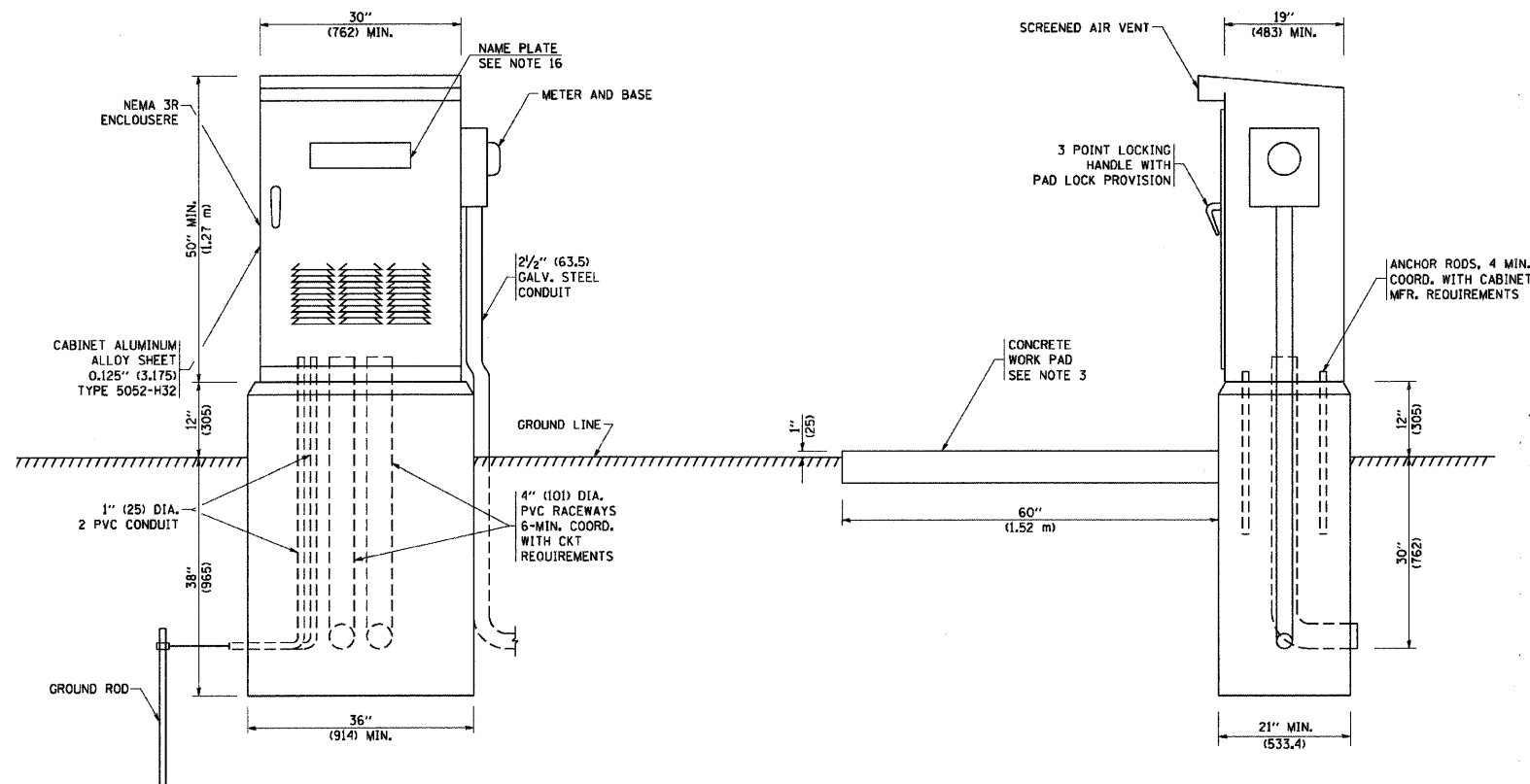
12/15/06
12/27/2006
c:\p\project\p1453\p1453.dwg



PANEL WIRING DIAGRAM

PANEL EQUIPMENT

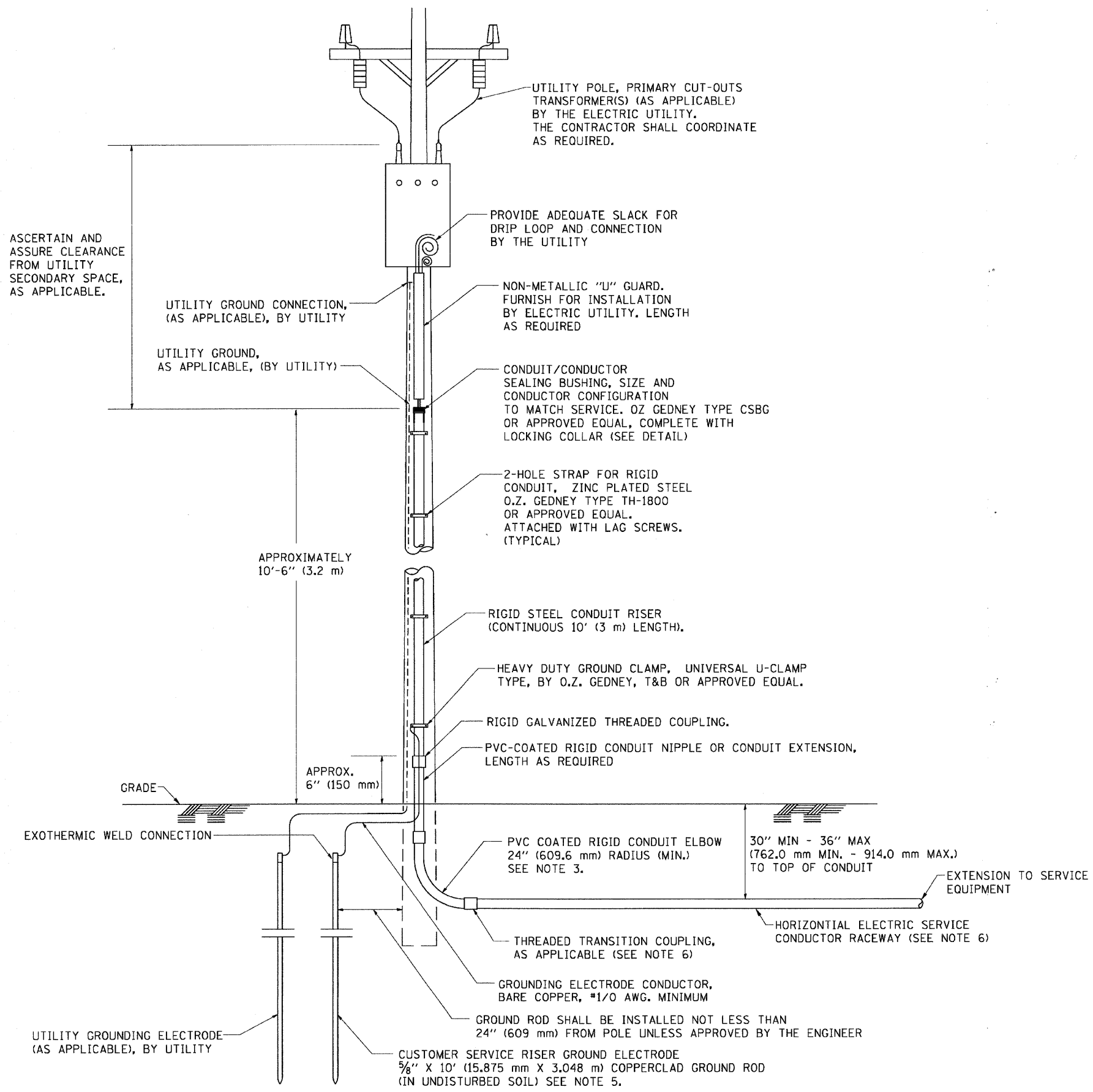
BILL OF MATERIAL		
ITEM	QUANTITY	DESCRIPTION
A	1	MAIN CIRCUIT BREAKER, 2 POLE, 600 VOLT 100 AMP. FRAME, 100 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-22000 AMP. AT 480 VOLT.
B	1	REMOTE CONTROL SWITCH, ELECTRICALLY OPERATED, MECHANICALLY HELD, 2 POLE, SINGLE THROW, 100 AMP., 600 VOLTS CONTROL CIRCUIT 240 VOLT.
C	8	CIRCUIT BREAKERS, 1 POLE, 100AMP. FRAME, 50 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-10,000 AMP. AT 240 V.
D	2	CONTROL CIRCUIT-CIRCUIT BREAKER, 1 POLE, 240 V., 100 AMP. FRAME, 15 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-5000 AMP. AT 240 V.
E	1	ASTRONOMIC MICROPROCESSOR-BASED 2-CHANNEL CONTROLLER (TIME SWITCH).
F	1	20 A., 120 V. FUSE.
G	1	1.5 KVA, SINGLE PHASE, ENCAPSULATED TRANSFORMER 240 X 480 / 120 X 240 VOLT, 60 HZ.
H	1	SPST 20A SWITCH ON DOOR, TO TURN LIGHT ON WHEN DOOR IS OPEN,
I	1	INCANDESCENT LIGHTING FIXTURE ENCLOSED AND GASKETED WITH 60 WATT, 120 V. LAMP.
J	1	20 A., 120 V., DUPLEX RECEPTACLE, GFCI.
K	1	COPPER GROUND BUS 1/4" (6.35) X 1" (25.4) X 12" (304.8 mm) LONG MOUNTED ON PANEL WITH LUGS AND 4 SPARE LUGS
L	1	TOGGLE SWITCHES MOUNTED IN 4" (101.6) X 4" (101.6 mm) BOX.
M	1	COPPER GROUND BUS 1/4" (6.35) X 1" (25.4) X 12" (304.8 mm) LONG MOUNTED ON PANEL WITH LUGS AND SPARE LUGS



NOTES:

- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- FOUNDATION SIZE SHALL BE COORDINATED WITH CABINET SIZE AND MFR.
- IN FRONT OF CONTROL CABINET DOOR, REMOVE VEGETATION AND 2" (50.8 mm) TOP SOIL, LEVEL THE AREA AND ON TOP, PLACE LENGTH WISE PARALLEL TO CONTROL CABINET, A CONCRETE PAD 36" (914.4 mm) X 60" (18.288 m) X 4" (101 mm) MIN. SIZE. THE COST OF LABOR AND MATERIALS ARE INCLUDED IN THE COST OF THE CONTROLLER.
- DOOR SHALL BE CONSTRUCTED FROM SAME TYPE OF MATERIAL AND THICKNESS AS CABINET.
- DOOR SHALL BE EQUIPPED WITH THREE POINT LATCHING MECHANISM WITH NYLON ROLLERS AT TOP THE BOTTOM.
- DOOR HINGE SHALL BE A HEAVY GAUGE CONTINUOUS HINGE WITH A 1/4" (6.35 mm) DIA. STAINLESS STEEL HINGE PIN.
- ALL EXTERNAL HARDWARE SHALL BE STAINLESS STEEL.
- CONTROL WIRING TO BE #12 AWG, 600V, TYPE "SIS" GRAY SWITCH BOARD WIRE, STRANDED COPPER.
- METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET, NEAR TO THE SERVICE POLE.
- CABINETS SHALL BE PRIMED AND PAINTED AS SPECIFIED.
- THE HEADS OF CONNECTORS SCREWS SHALL BE PAINTED WHITE FOR NEUTRAL BAR CONNECTION AND GREEN FOR GROUND BAR CONNECTORS.
- ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED.
R = RED BL = BLUE W = WHITE
B = BLACK Y = YELLOW G = GREEN
- PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE CONTROL CABINET.
- ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.
- THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508 AND BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL PANEL".
- 12" (304.8) X 16" (406.4 mm) STAINLESS STEEL EXTERIOR NAMEPLATE SHALL BE ENGRAVED TO "STATE OF ILLINOIS LIGHTING CONTROLS" UNLESS OTHERWISE SPECIFIED.

FILE NAME = W:\dstatd\22x34\be215.dgn	USER NAME = geglenobt	DESIGNED - DRAWN -	REVISED - REVISED -	08-20-04	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LIGHTING CONTROLLER SINGLE DOOR			F.A. RTE. 1453	SECTION 55WRS	COUNTY DuPAGE	TOTAL SHEETS 362	SHEET NO. 259
PLOT SCALE = 50,0000' / IN.		CHECKED -	REVISED -			SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
PLOT DATE = 1/4/2008		DATE -	REVISED -			CONTRACT NO. 60D12							

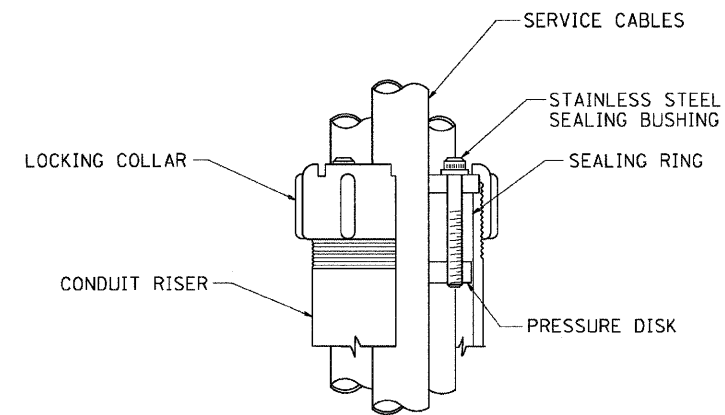


APPLICATION

THIS DETAIL APPLIES FOR LOW VOLTAGE ELECTRIC SERVICE (660 V OR LESS) FROM AN OVERHEAD UTILITY SUPPLY TO SEPERATLY-MOUNTED SERVICE EQUIPMENT.

NOTES

- SERVICE VOLTAGE SHALL BE AS INDICATED ELSEWHERE IN THE DRAWINGS.
- UNLESS OTHERWISE INDICATED, ITEMS AND WORK SHALL BE INCLUDED AND PAID AS PART OF THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.
- CONDUIT AND CONNECTOR DIAMETER SHALL MATCH THE DIAMETER OF THE SERVICE CONDUCTOR RACEWAY AS INDICATED ON THE PLANS.
- PVC COATED RACEWAYS AND ACCESSORIES SHALL BE CAREFULLY INSTALLED WITH MFR RECOMMENDED TOOLS AND PROCEDURES TO AVOID DAMAGE. ANY DAMAGE SHALL BE REPAIRED WITH COMPATIBLE PVC TOUCH-UP MATERIAL TO THE SATISFACTION OF THE ENGINEER OR THE DAMAGED MATERIAL SHALL BE REPLACED AT NO ADDITIONAL COST.
- THE CONTRACTOR SHALL OBTAIN INSPECTION AND APPROVAL BY THE ENGINEER OF SERVICE RISER GROUND ELECTRODE, RISER ELBOW, NIPPLE AND CONNECTION TO SERVICE CONDUCTOR RACEWAY EXTENSION BEFORE BACKFILL AND SHALL ALSO OBTAIN INSPECTION OF SERVICE RISER AND SEALING BUSHING BEFORE UTILITY "U" GUARD INSTALLATION AND SERVICE CONNECTION.
- THE HORIZONTAL ELECTRIC SERVICE CONDUCTOR RACEWAY SHALL BE AS INDICATED AND SHALL BE MEASURED SEPARATELY FOR PAYMENT. WHEN THE RACEWAY IS PVC-COATED RIGID GALVANIZED STEEL, THE COUPLING SHALL BE THE SAME. WHEN THE RACEWAY IS PVC CONDUIT (IN CONCRETE), THE COUPLING SHALL BE A METALIC TO NON METALIC ADAPTER. WHEN THE RACEWAY IS ENCASED IN CONCRETE, THE CONCRETE SHALL EXTEND TO COVER THE COUPLING.
- PLANS AND DETAILS INDICATE THE GENERAL NATURE AND REQUIREMENTS. THEY DO NOT SHOW EVERY ACCESSORY AND ATTACHMENT, AND THEY DO NOT RELIEVE THE CONTRACTOR OF THE REQUIREMENTS OF THE SPECIFICATIONS AND SPECIAL PROVISIONS TO ASCERTAIN UTILITY REQUIREMENTS AND TO COORDINATE ACCORDINGLY, FURNISHING ALL ITEMS AND WORK NOT PROVIDED BY THE UTILITY, BUT NECESSARY FOR A COMPLETE SERVICE INSTALLATION IS REQUIRED AND SHALL BE INCLUDED IN THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.

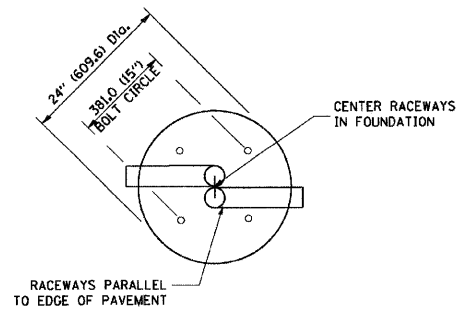


SEALING BUSHING DETAIL

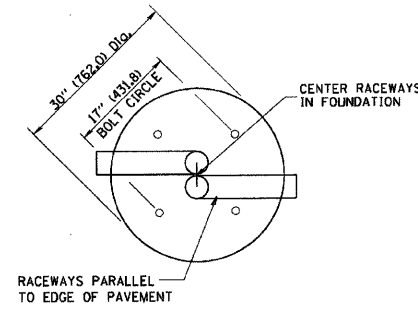
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PLOT SCALE = 58.0000" / IN.	CHECKED - MEA	REVISOR -	DATE -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	BE-220		CONTRACT NO. 60D12	
PLOT DATE = 1/4/2008	DATE -	REVISOR -	DATE -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							

LIGHT POLE FOUNDATION DEPTH TABLE
40 FT. (12.192 m) TO 47.5 FT. (14.478 m) MOUNTING HEIGHT

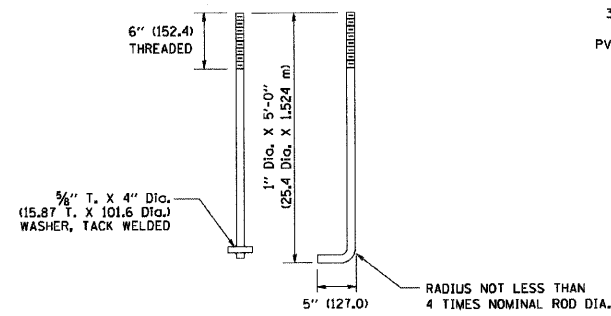
SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION	
	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY Ou = 0.375 TON/SO. FT.	13'-0" (3.96 m)	15'-0" (4.57 m)
MEDIUM CLAY Ou = 0.75 TON/SO.FT	9'-6" (2.93 m)	10'-9" (3.23 m)
STIFF CLAY Ou = 1.50 TON/SO. FT.	7'-0" (2.13 m)	8'-0" (2.44 m)
LOOSE SAND φ = 34°	9'-0" (2.74 m)	10'-0" (3.05 m)
MEDIUM SAND φ = 37.5°	8'-3" (2.52 m)	9'-0" (2.74 m)
DENSE SAND φ = 40°	7'-9" (2.36 m)	9'-0" (2.74 m)



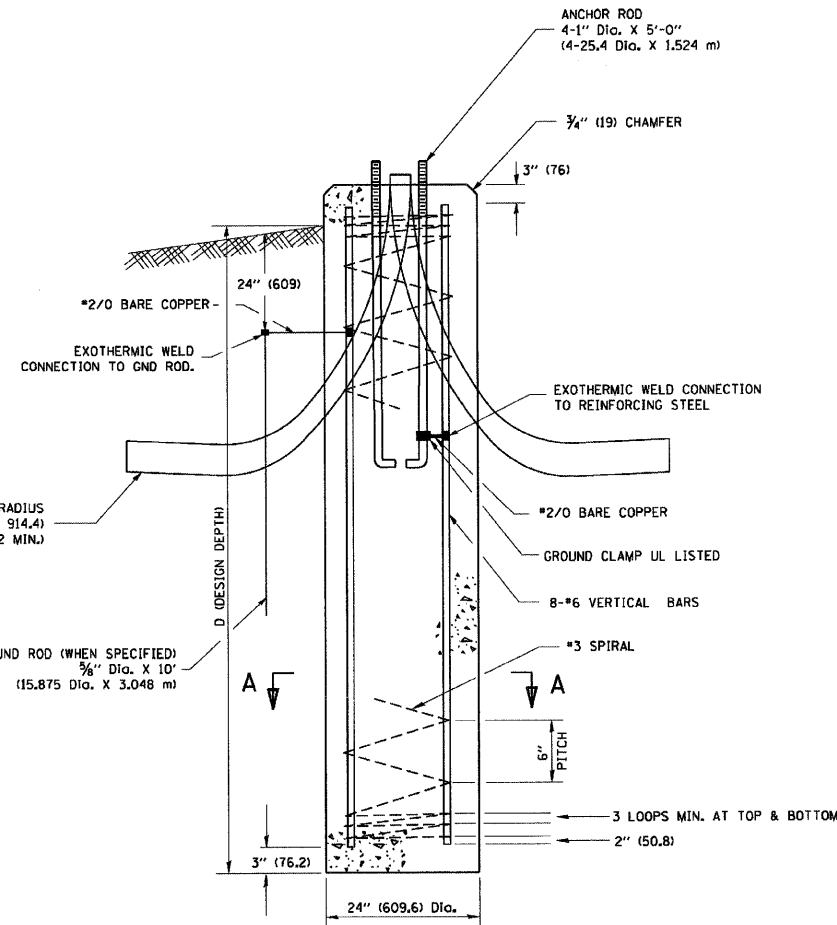
TOP VIEW



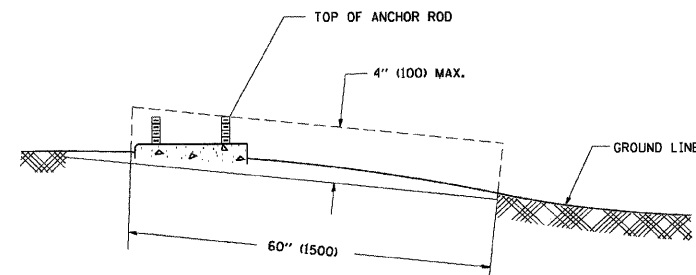
TOP VIEW



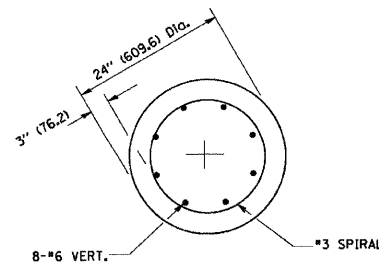
ANCHOR ROD DETAIL



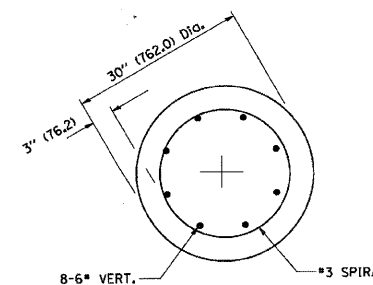
FOUNDATION DETAIL



FOUNDATION EXTENSION DETAIL



SECTION A-A



SECTION A-A

NOTES

- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED.
- THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED. IN ACCORDANCE WITH AASHTO GUIDELINES, IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
- THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
- THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED 3/4-IN. (20 mm).
- THE CONCRETE SHALL BE CLASS 51. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
- THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UMG MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
- THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- ANCHOR RODS SHALL PROJECT 2 3/4" (69.9 mm) ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
- THE CONTRACTOR SHALL USE A #3 SPIRAL AT 6" (152.4 mm) PITCH OR MAY SUBSTITUTE #3 TIES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.
- THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
- THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.

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USER NAME = gegljanobt
PLOT SCALE = 50.0000' / IN.
PLOT DATE = 1/4/2008

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REVISED - 04-22-02
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REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHT POLE FOUNDATION
40' (12.192 m) TO 47' 1/2' (14.478 m) M.H. 15" (381 mm) BOLT CIRCLE
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

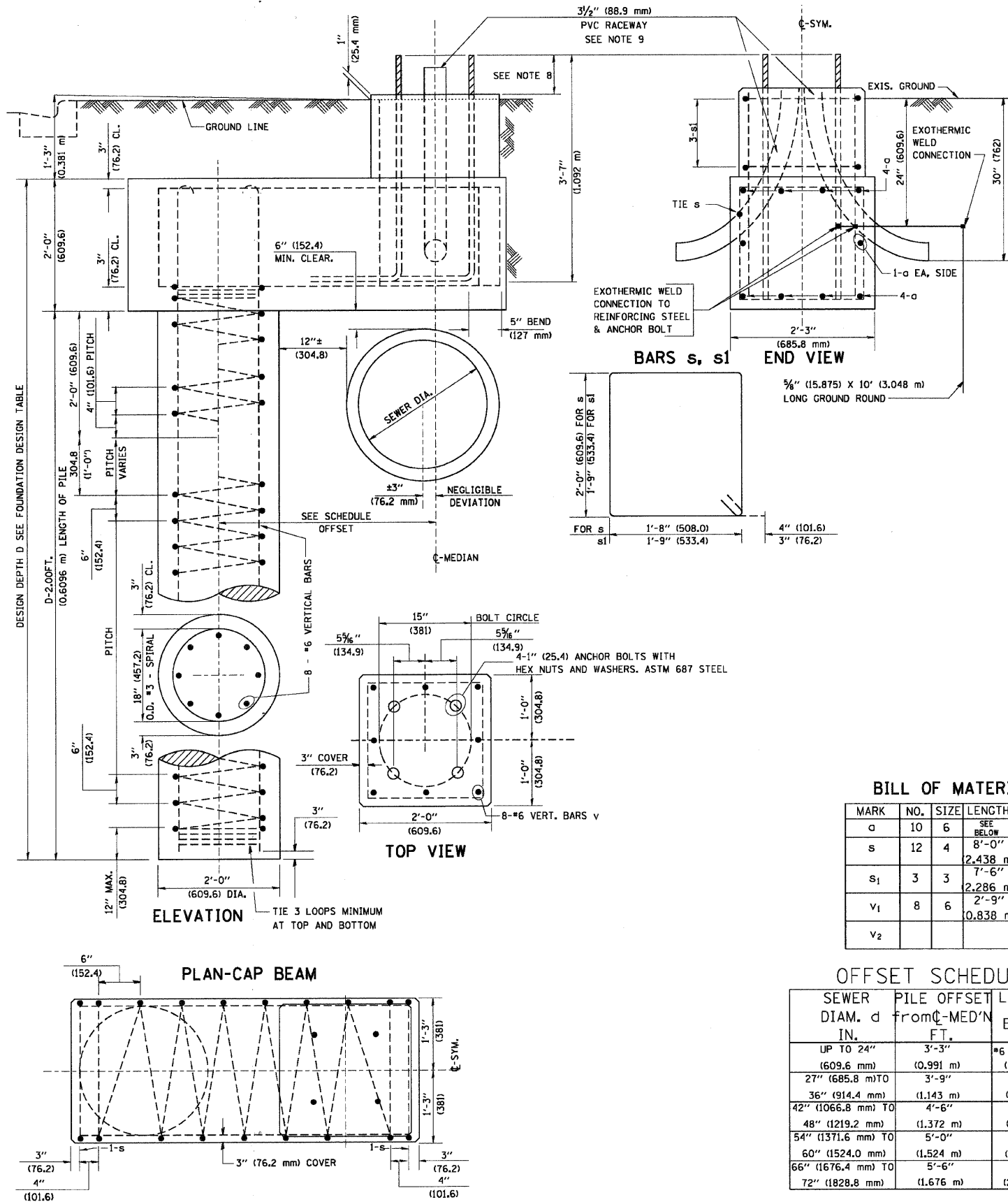
F.A. RTE. 1453	SECTION 55WRS	COUNTY DuPAGE	TOTAL SHEETS 362	SHEET NO. 261
BE-301			CONTRACT NO. 60D12	
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				

FOUNDATION DESIGN TABLE

TYPE OF SOIL	DESIGN DEPTH OF FOUNDATION		REINFORCEMENT IN FOUNDATION			
	SINGLE ARM D	TWIN ARM D	SINGLE ARM		TWIN ARM	
			VERT BARS	SPIRAL	VERT BARS	SPIRAL
SOFT CLAY	13'-0" (3.962 m)	15'-0" (4.572 m)	8-#6X12'-6" (3.810 m)	#3X122' (37.186 m)	8-#6X14'-3" (4.343 m)	#3X141' (42.977 m)
MEDIUM CLAY	9'-6" (2.896 m)	10'-9" (3.277 m)	8-#6X9'-0" (2.743 m)	#3X90' (27.432 m)	8-#6X10'-0" (3.048 m)	#3X100' (30.480 m)
STIFF CLAY	7'-0" (2.134 m)	8'-0" (2.438 m)	8-#6X6'-6" (1.981 m)	#3X66' (20.112 m)	8-#6X7'-6" (2.286 m)	#3X76' (23.165 m)
LOOSE SAND	9'-0" (2.743 m)	10'-0" (3.048 m)	8-#6X8'-6" (2.591 m)	#3X85' (25.908 m)	8-#6X9'-6" (2.896 m)	#3X94' (28.651 m)
MEDIUM SAND	8'-3" (2.515 m)	9'-0" (2.743 m)	8-#6X8'-0" (2.438 m)	#3X78' (23.774 m)	8-#6X8'-6" (2.591 m)	#3X85' (25.908 m)
DENSE SAND	7'-9" (2.362 m)	9'-0" (2.743 m)	8-#6X7'-6" (2.286 m)	#3X73' (22.250 m)	8-#6X8'-6" (2.591 m)	#3X85' (25.908 m)
ROCK OR SOLIDIFIED SLAG	5'-0" (1.524 m)	5'-0" (1.524 m)	NONE	NONE	NONE	NONE

NOTES

- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ENGINEER SHALL DETERMINE THE CLASS OF SOIL DURING EXCAVATION AND SELECT THE DESIGN DEPTH OF FOUNDATION FROM THE DESIGN TABLE.
- EXCAVATION OF THE POLE FOUNDATION SHALL BE MADE WITH AN AUGER, 24" (609.6 mm) OR 30" (762.0 mm) IN DIAMETER.
- THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- THE ANCHOR BOLTS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED IN THE FORM.
- THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF FOUNDATION WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS. IF LIGHT POLE IS MOUNTED WITHOUT BREAKAWAY DEVICE, ANCHOR BOLTS SHALL PROJECT 2 3/4" (69.9 mm) ABOVE TOP OF THE FOUNDATION. THE CONTRACTOR SHALL CONFIRM ANCHOR BOLT EXTENTION WITH ENGINEER.
- RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.
- THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE LIGHT IS ERECTED.



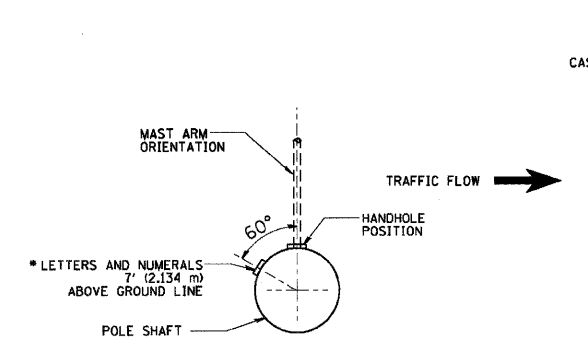
BILL OF MATERIAL

MARK	NO.	SIZE	LENGTH	SHAPE
a	10	6	SEE BELOW	—
s	12	4	8'-0" (2.438 m)	□
s ₁	3	3	7'-6" (2.286 m)	□
v ₁	8	6	2'-9" (0.838 m)	—
v ₂				

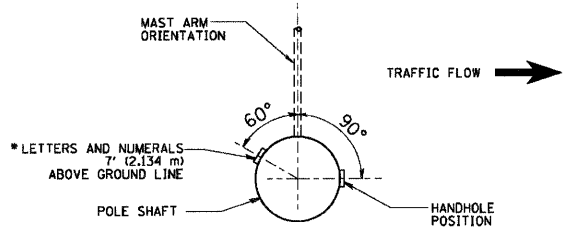
OFFSET SCHEDULE

SEWER DIAM. d IN.	PILE OFFSET from C-MED'N FT.	LENGTH of BAR a FT.
UP TO 24" (609.6 mm)	3'-3" (0.991 m)	#6 x 5'-3" (1.600 m)
27" (685.8 mm) TO	3'-9" (1.143 m)	5'-9" (1.753 m)
36" (914.4 mm) TO	4'-6" (1.372 m)	6'-6" (1.981 m)
42" (1066.8 mm) TO	5'-0" (1.524 m)	7'-0" (2.134 m)
48" (1219.2 mm) TO	5'-6" (1.676 m)	7'-6" (2.286 m)
54" (1371.6 mm) TO	6'-0" (1.828 m)	8'-0" (2.438 m)
60" (1524.0 mm) TO	6'-6" (1.981 m)	8'-6" (2.591 m)
66" (1676.4 mm) TO	7'-0" (2.134 m)	9'-0" (2.743 m)
72" (1828.8 mm) TO	7'-6" (2.286 m)	9'-6" (2.896 m)

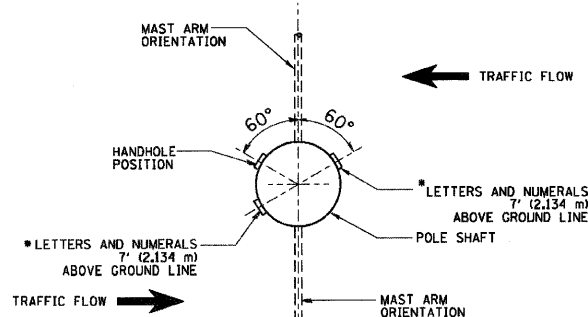
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PLOT SCALE = 50,000' / IN.	CHECKED - LGB	REVISOR -	SCALE:			SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT		CONTRACT NO. 60D12
PLOT DATE = 6/16/2008	DATE -	REVISOR -								



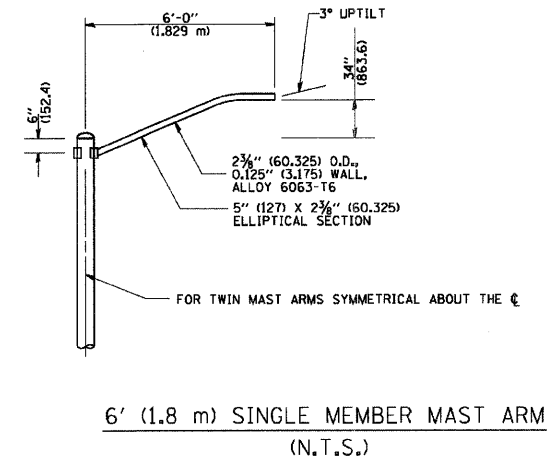
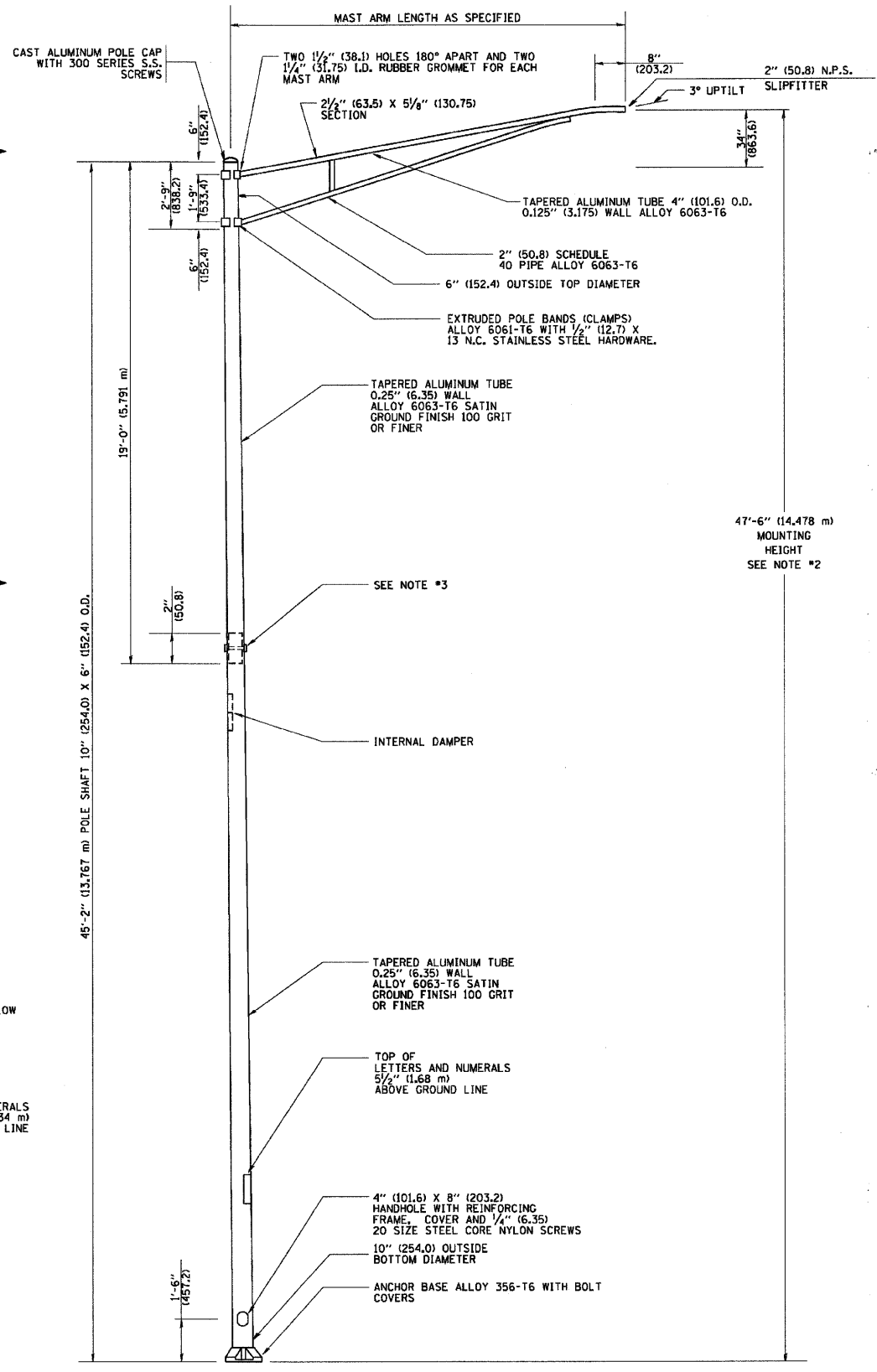
POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES MOUNTED ON BRIDGE PARAPET OR BARRIER WALL



POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES

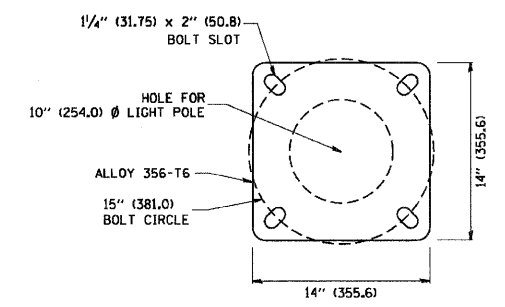


POSITION OF HANDHOLE AND POLE NUMBER FOR TWIN MAST ARM POLES

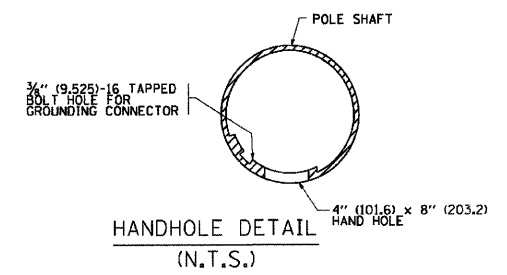


6' (1.8 m) SINGLE MEMBER MAST ARM (N.T.S.)

- NOTES:**
1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
 2. MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE ANCHOR BASE.
 3. TWO PIECE SHAFT WILL BE MATCHED MARKED AND INTERCHANGEABLE BETWEEN DIFFERENT UNITS. FIELD DRILLING OF THE HOLES WILL NOT BE ALLOWED.
 4. THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
 5. THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR, BURNDY K2C23, T&B SP4DL OR APPROVED EQUAL.
 6. LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.
 7. LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.
 8. LIGHTING UNIT IDENTIFICATION NUMBERS SHALL BE INSTALLED BEFORE THE LIGHTING UNIT IS ENERGIZED.

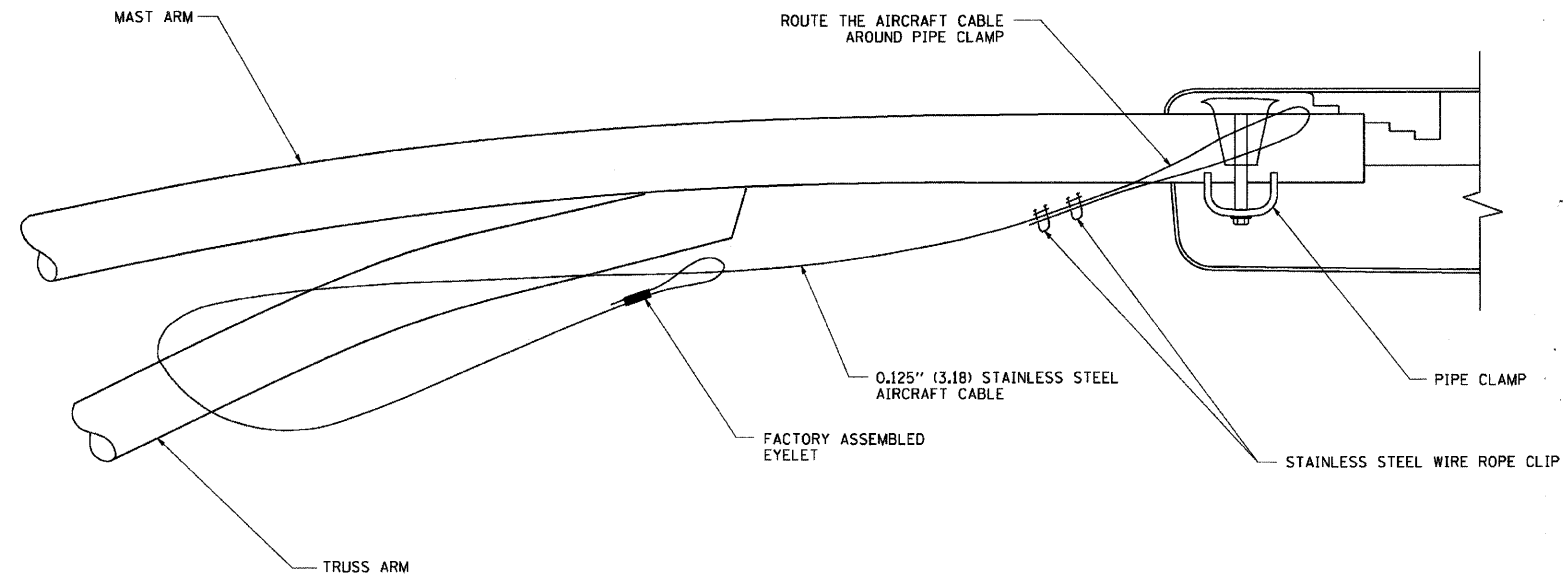


LIGHT POLE BASE PLATE DETAIL
15 INCH (381.0) BOLT CIRCLE

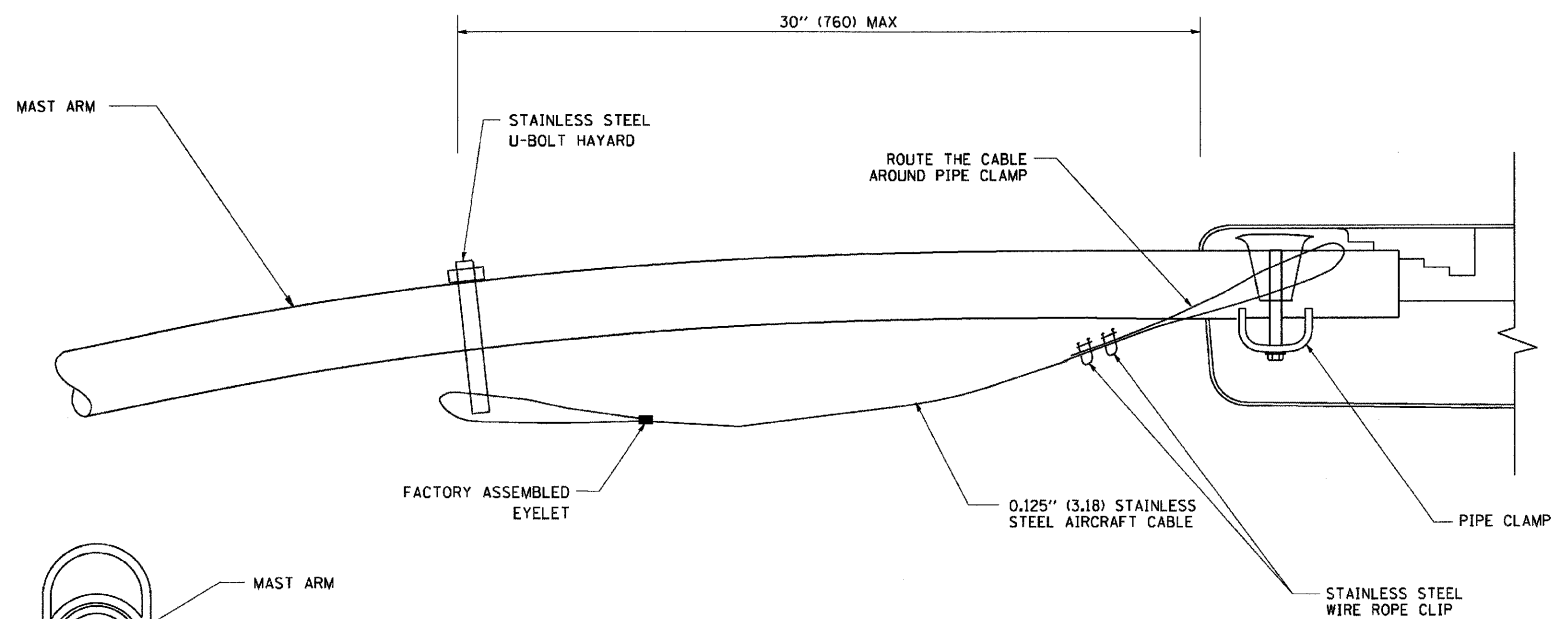


HANDHOLE DETAIL (N.T.S.)

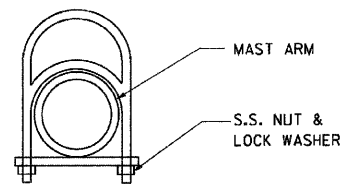
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PLOT DATE = 1/4/2008		DATE -	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							



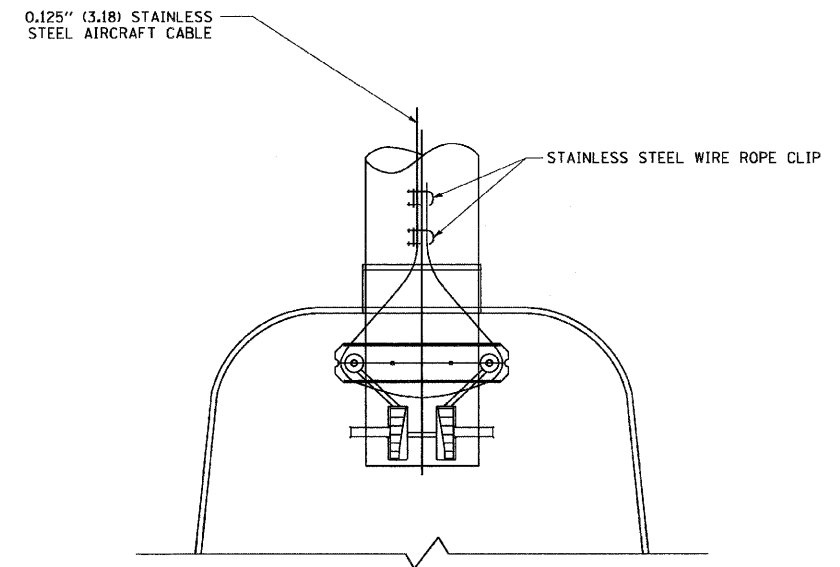
SIDE VIEW (TRUSS ARM)
N.T.S.



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



STAINLESS STEEL
U-BOLT HAYARD

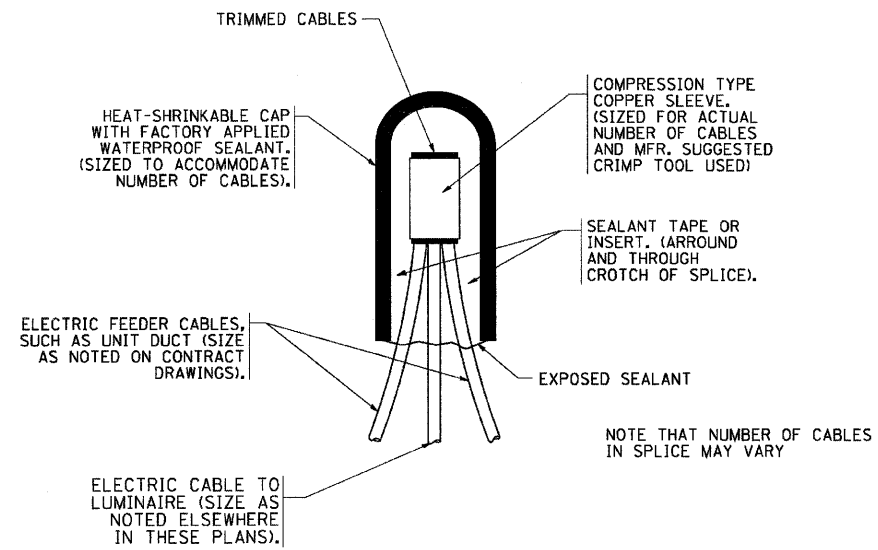


BOTTOM VIEW
N.T.S.

NOTES:

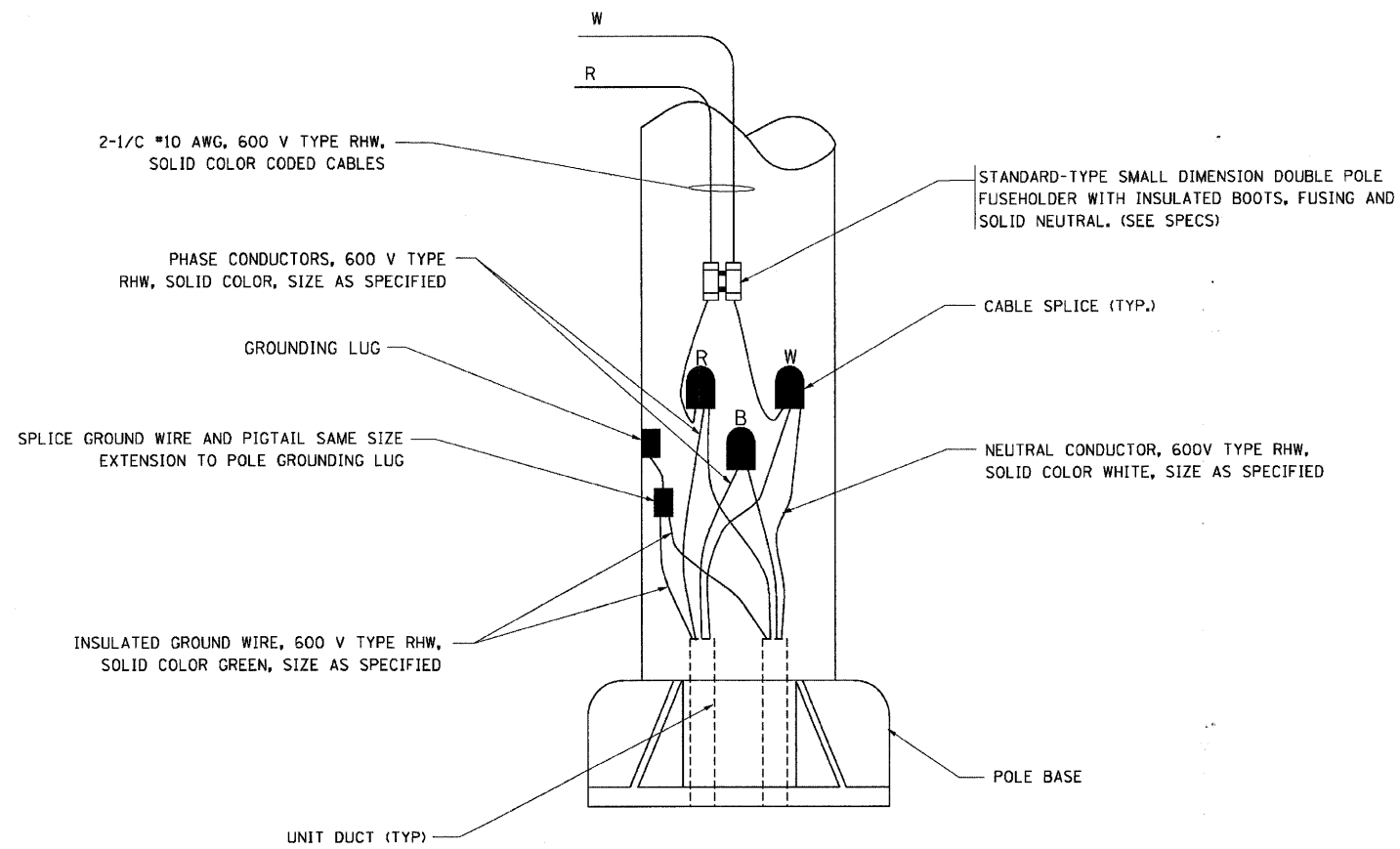
1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
2. CONTRACTOR SHALL ADJUST THE WIRE CLIP TO ELIMINATE ANY SLACK FROM THE WIRE ROPE.
3. THE 0.125" (3.18) STAINLESS STEEL AIRCRAFT CABLE SHALL REMAIN VISIBLE FROM THE GROUND LEVEL.
4. THE BREAKING STRENGTH OF THE CABLE SHALL BE 1700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

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	PLOT SCALE = 50,000' / IN.	DRAWN -	REVISED -					1453	55WRS	DuPAGE	362	264
	PLOT DATE = 1/4/2008	CHECKED -	REVISED -					BE-701			CONTRACT NO. 60D12	
		DATE -	REVISED -					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
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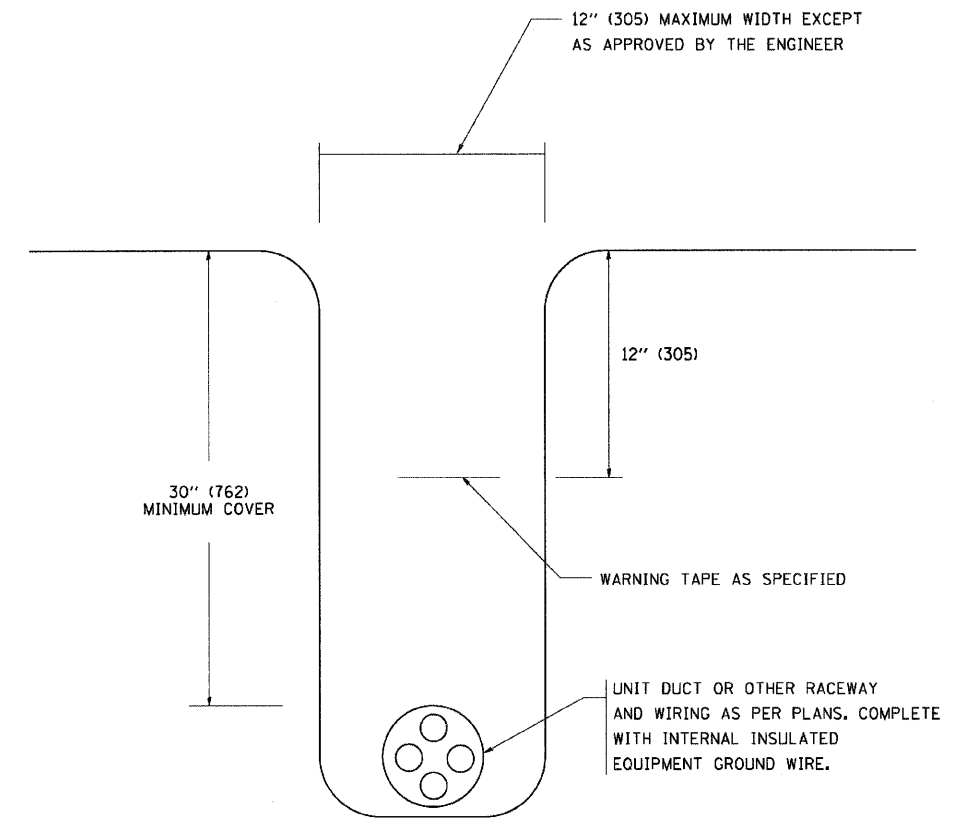
TYPICAL SPLICE DETAIL

N.T.S.



POLE WIRING DETAIL

N.T.S.



TYPICAL WIRING IN TRENCH DETAIL

N.T.S.

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PLOT DATE = 1/4/2008

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DATE -

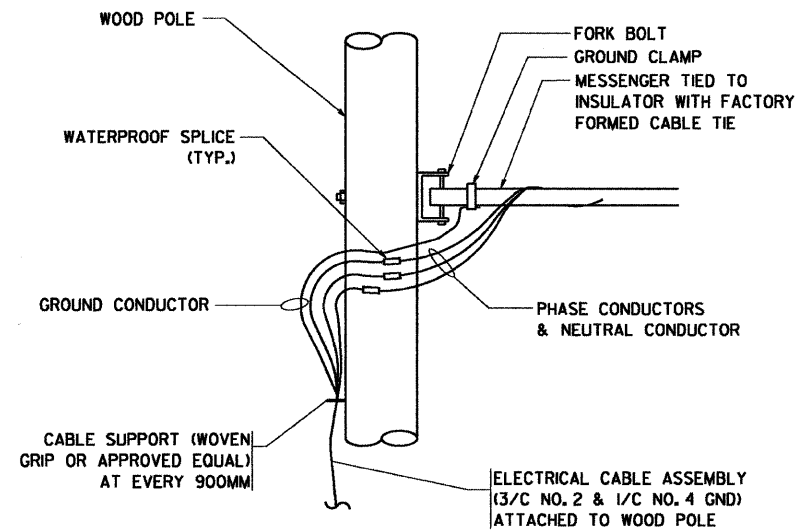
REVISED - 08-08-03
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

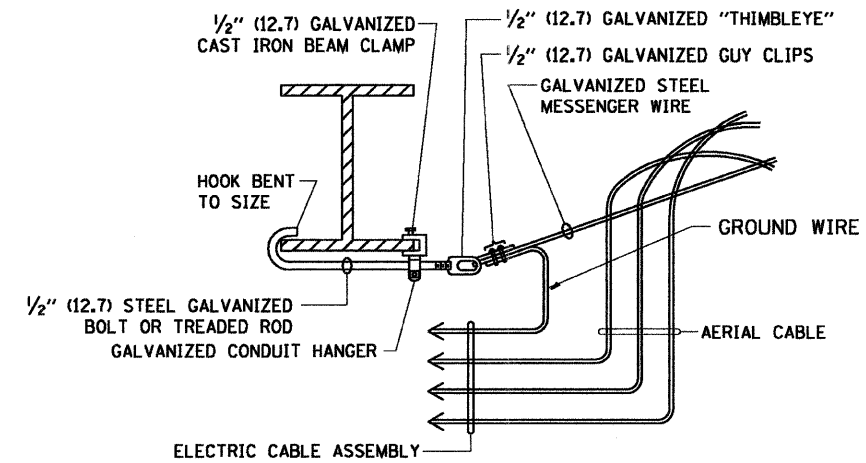
MISC. ELECTRICAL DETAILS
SHEET A

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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BE-702			CONTRACT NO. 60D12	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



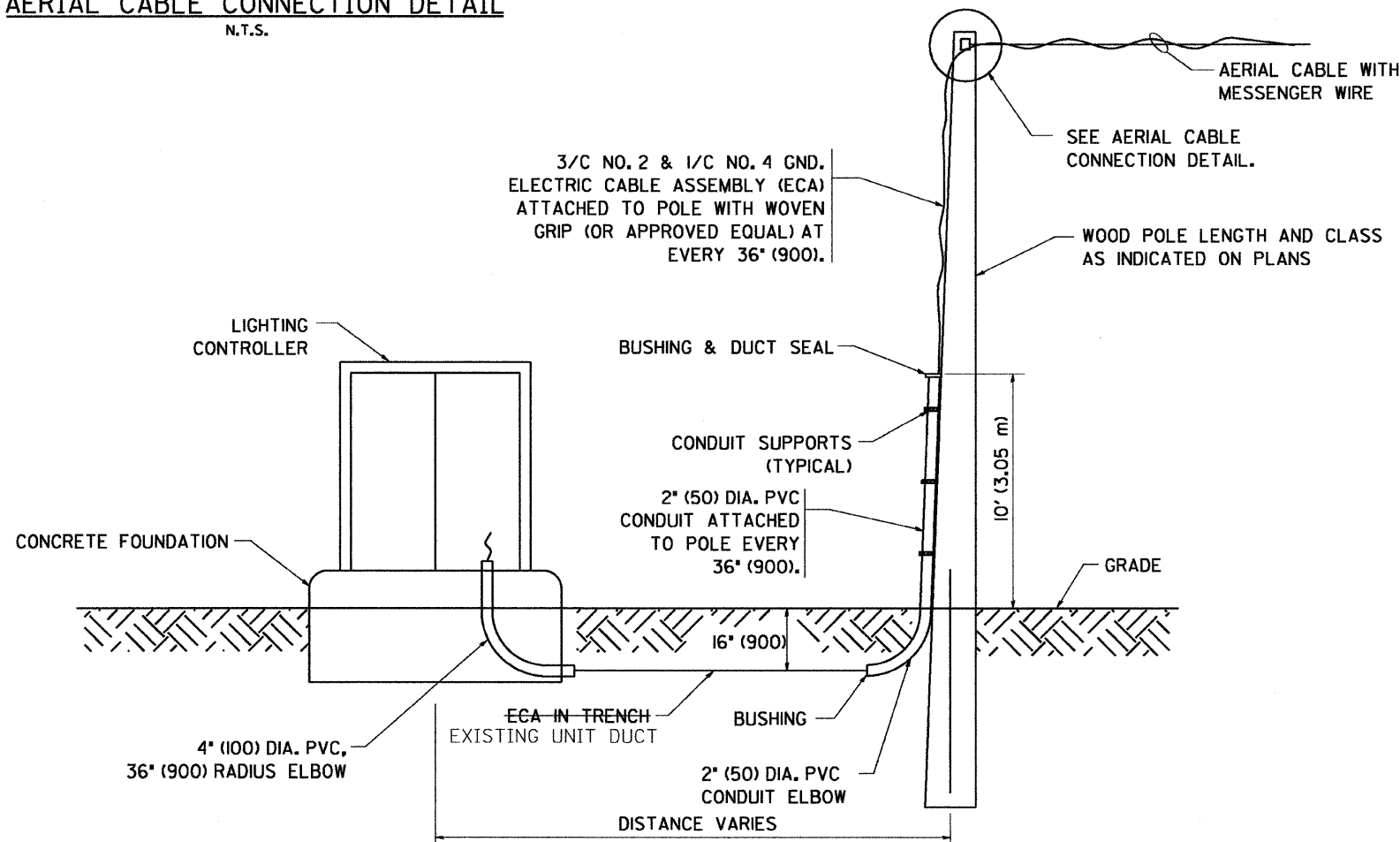
AERIAL CABLE CONNECTION DETAIL
N.T.S.



AERIAL CABLE ATTACHED TO STRUCTURE
NOT TO SCALE

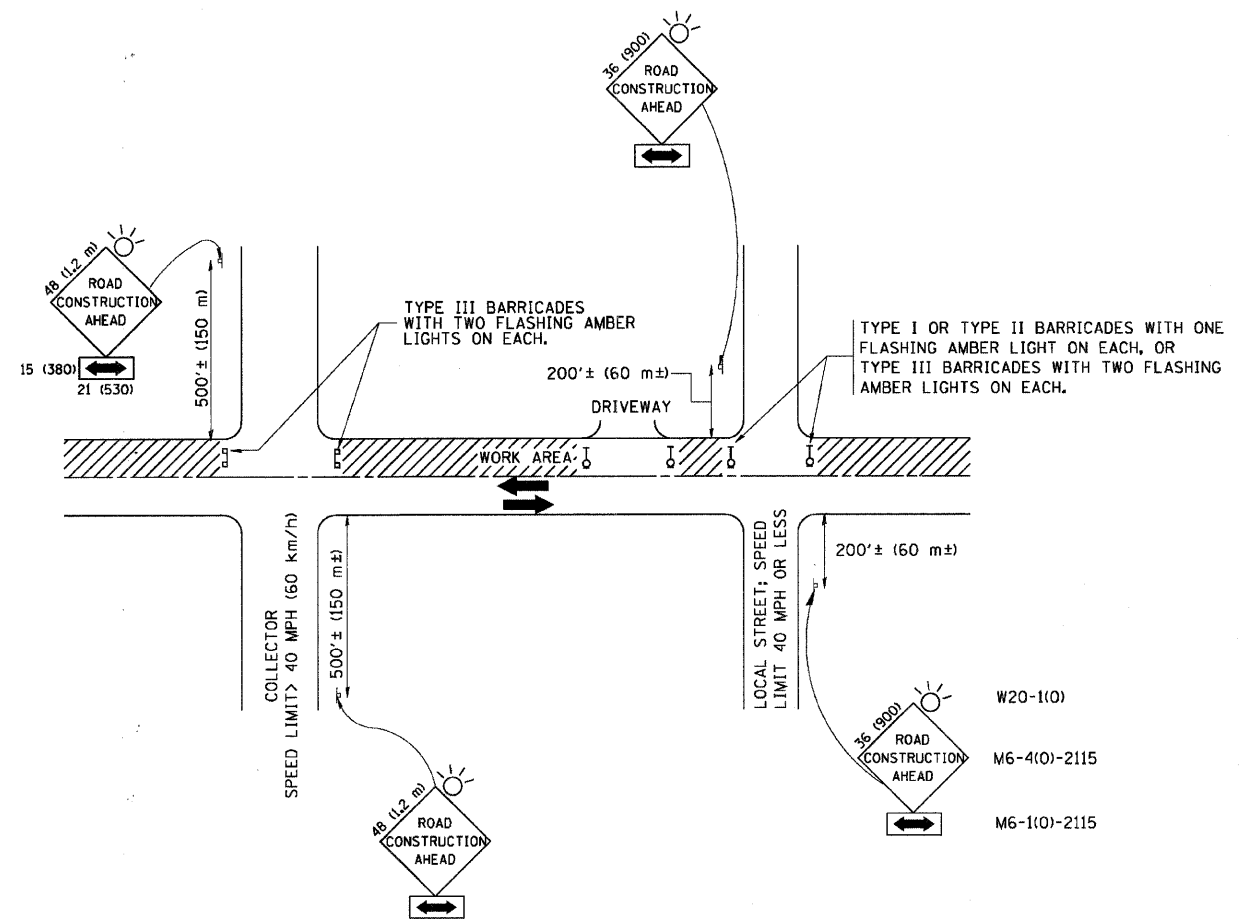
NOTES:

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



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

FILE NAME = W:\distatd\22x34\be881.dgn	USER NAME = gegl1onobt	DESIGNED - DRAWN -	REVISED - 08-08-03 REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY AERIAL CABLE INSTALLATION			F.A. RTE. 1453	SECTION 55WRS	COUNTY DUPAGE	TOTAL SHEETS 362	SHEET NO. 265A
PLOT SCALE = 58,000' / IN.	CHECKED -	REVISIED -	REVISIED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	BE-801		CONTRACT NO. 60D12	
PLOT DATE = 1/4/2008	DATE -	REVISIED -	REVISIED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							



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

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

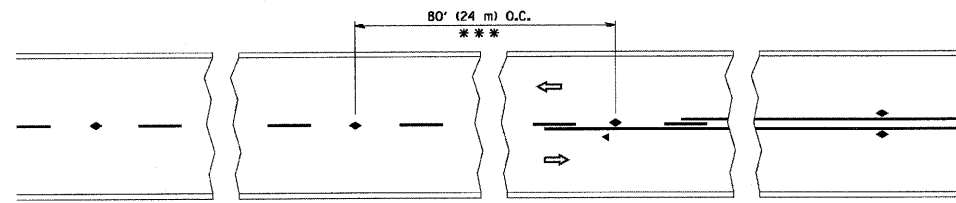
All dimensions are in millimeters (inches) unless otherwise shown.

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		DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 50,000'' / IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 1/4/2008	DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

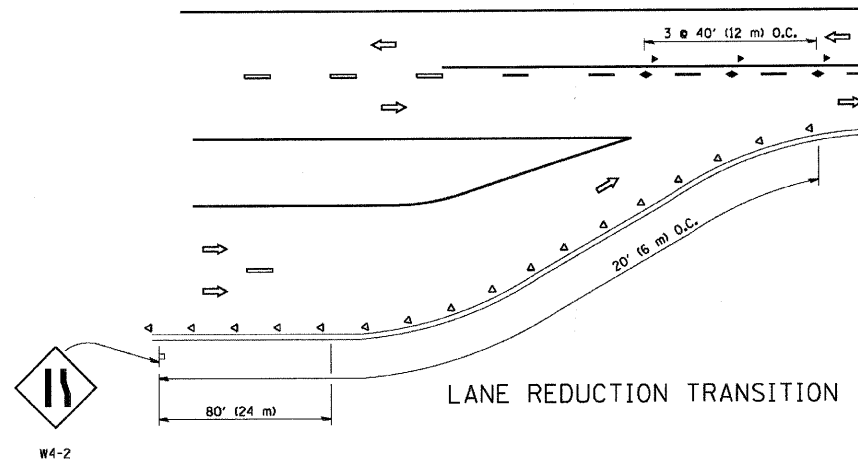
TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1453	55WRS	DuPAGE	362	266
TC-10			CONTRACT NO. 60D12	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

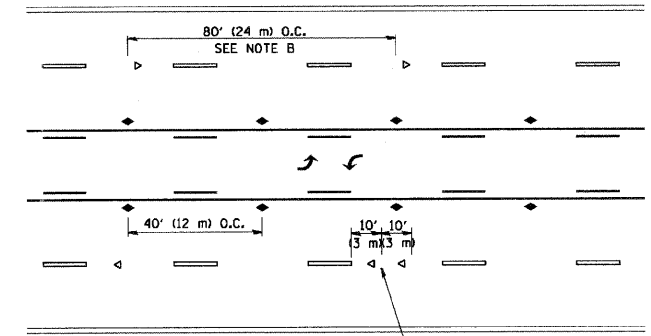


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

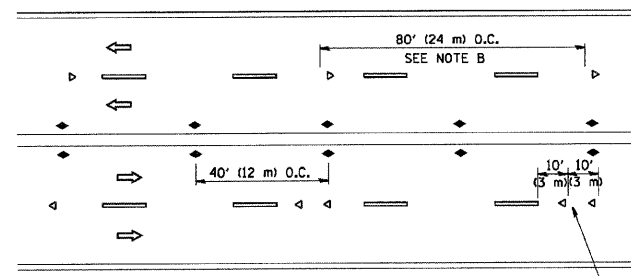
TWO-LANE/TWO-WAY



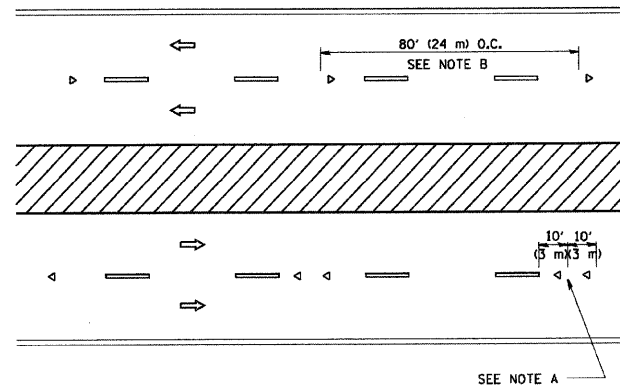
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

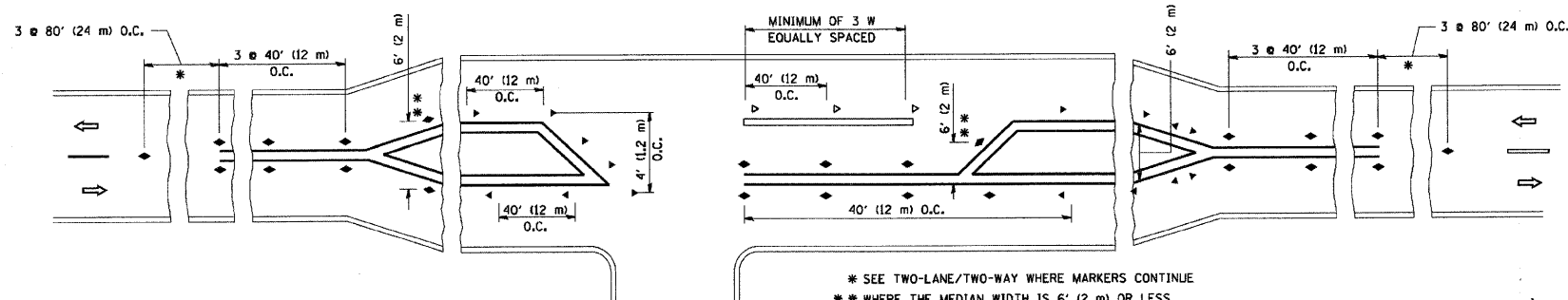
1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE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

SYMBOLS

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

LANE MARKER NOTES

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



LEFT TURN

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

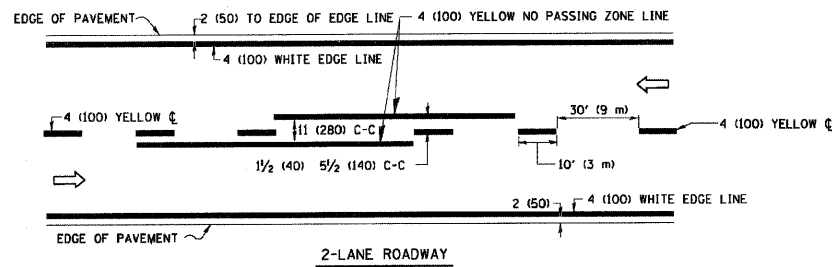
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	PLOT SCALE = 50,000' / IN.	CHECKED -	REVISED - T. RAMMACHER 01-06-00
	PLOT DATE = 1/4/2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

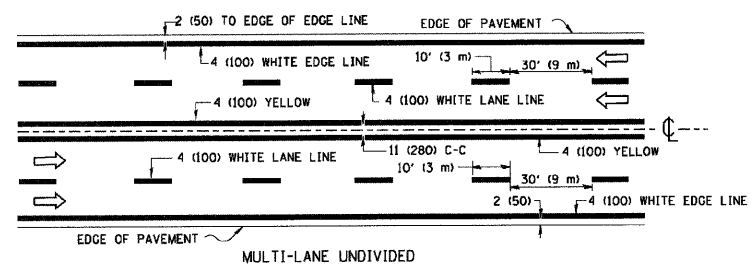
TYPICAL APPLICATIONS
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)

F.A. RTE. 1453	SECTION 55WRS	COUNTY DuPAGE	TOTAL SHEETS 362	SHEET NO. 267
TC-11		CONTRACT NO. 60D12		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

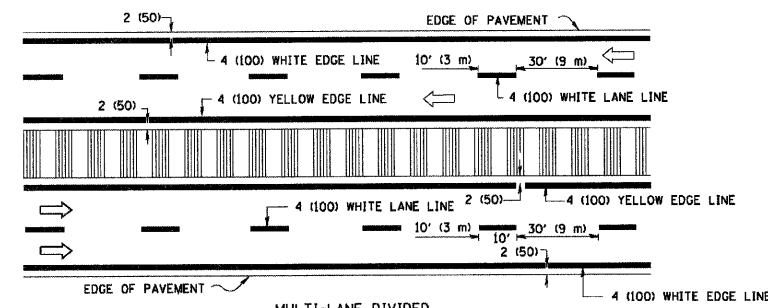
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.



2-LANE ROADWAY



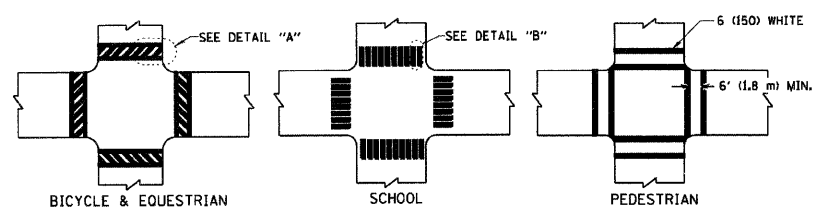
MULTI-LANE UNDIVIDED



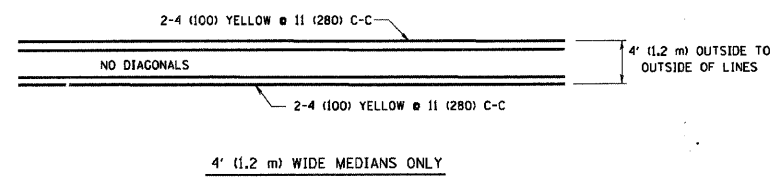
MULTI-LANE DIVIDED WITH MOUNTABLE MEDIAN

NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

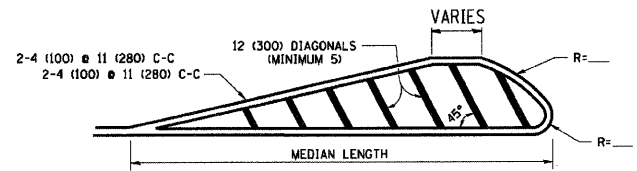
TYPICAL LANE AND EDGE LINE MARKING



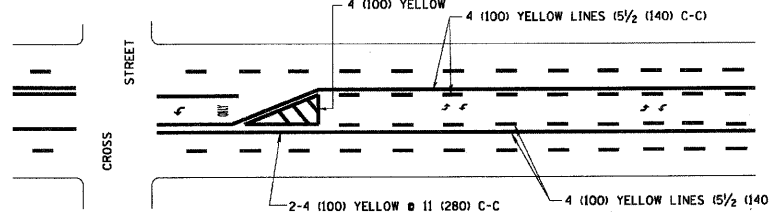
TYPICAL CROSSWALK MARKING



4' (1.2 m) WIDE MEDIANS ONLY

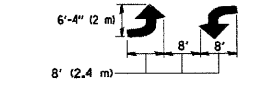


MEDIANS OVER 4' (1.2 m) WIDE



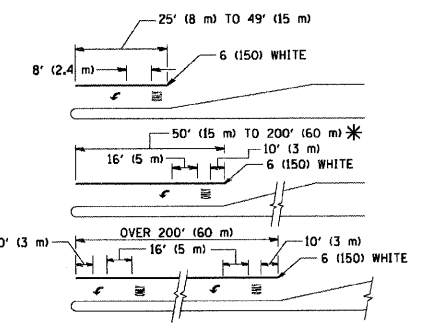
TYPICAL PAINTED MEDIAN MARKING

A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

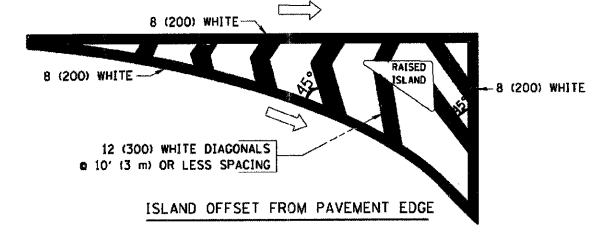
TYPICAL TURN LANE MARKING



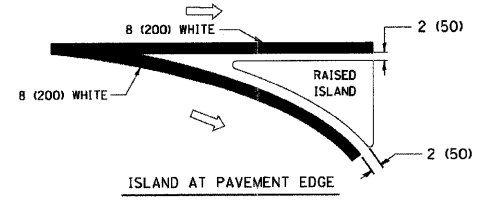
TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²) * TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".



ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" 15 (40) (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

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

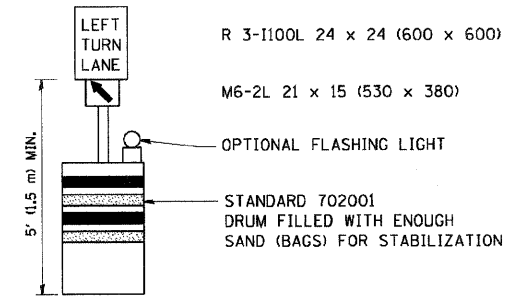
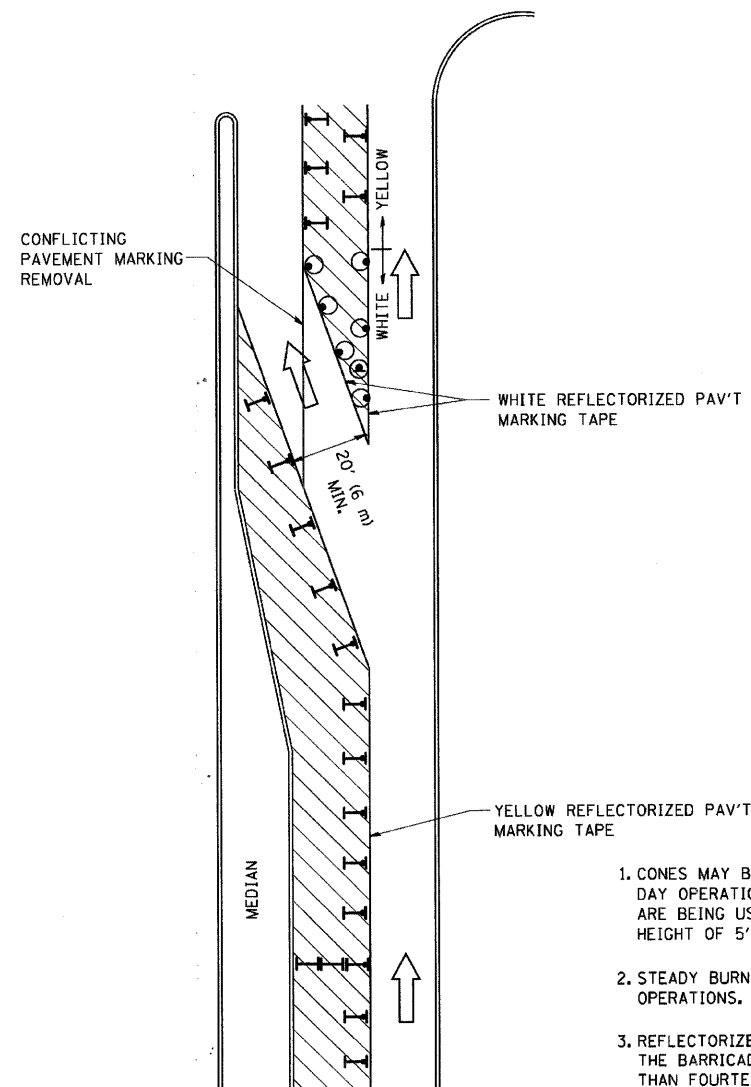
All dimensions are in inches (millimeters) unless otherwise shown.

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		DRAWN -	REVISED - A. HOUSEH 10-09-96
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - A. HOUSEH 10-17-96
	PLOT DATE = 1/4/2008	DATE - 03-19-90	REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE			
TYPICAL PAVEMENT MARKINGS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A. R.T.E. 1453	SECTION 55WR5	COUNTY DuPAGE	TOTAL SHEETS 362	SHEET NO. 268
TC-13			CONTRACT NO. 60D12	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				


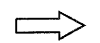






GENERAL NOTES

1. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT. WHEN CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).
2. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
3. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
4. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
5. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
7. FORM BT 725 IS REQUIRED.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

LEGEND

-  WORK AREA
-  LANE OPEN TO TRAFFIC
-  TYPE I OR II BARRICADE WITH STEADY BURN LIGHT
-  DRUM WITH STEADY BURN LIGHT
-  DRUM WITH SIGN (WITH OPTIONAL FLASHING LIGHT) SEE DETAIL
-  TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

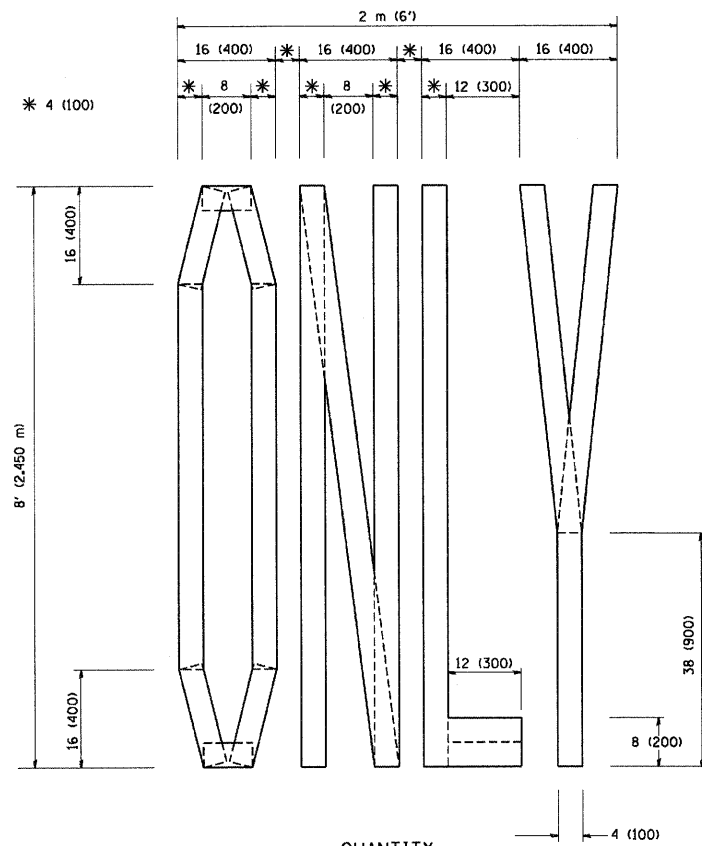
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		DRAWN -	REVISED - A, HOUSEH 11-07-95
		CHECKED -	REVISED - A, HOUSEH 10-12-96
		DATE -	REVISED -T, RAMMACHER 01-06-00

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

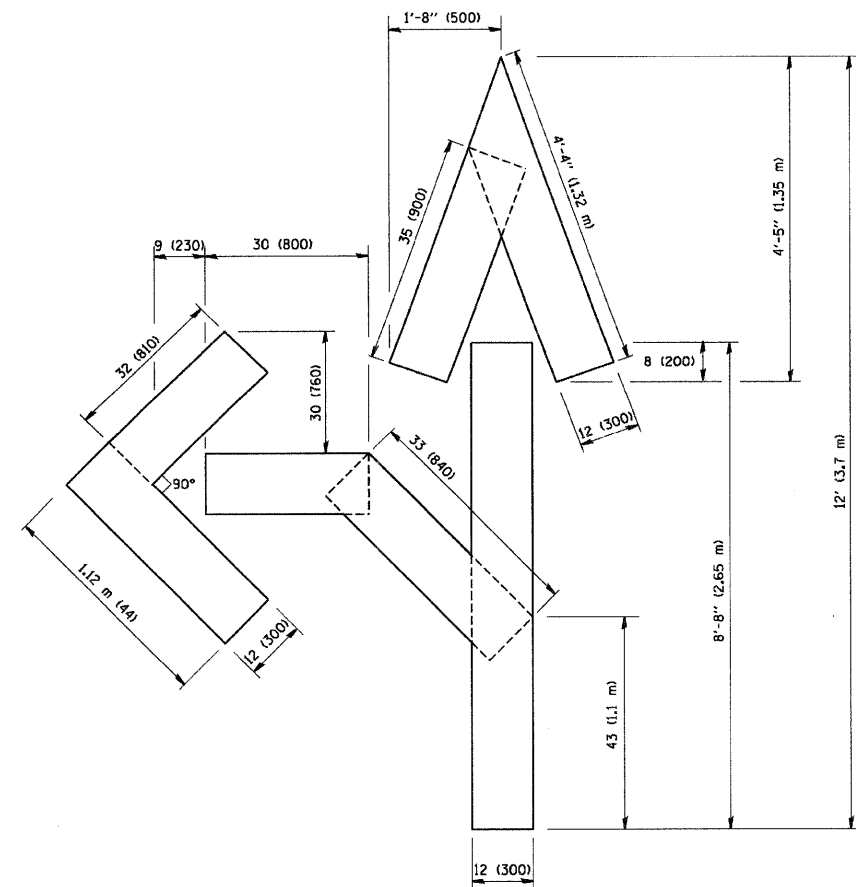
**TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
(TO REMAIN OPEN TO TRAFFIC)**

SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.
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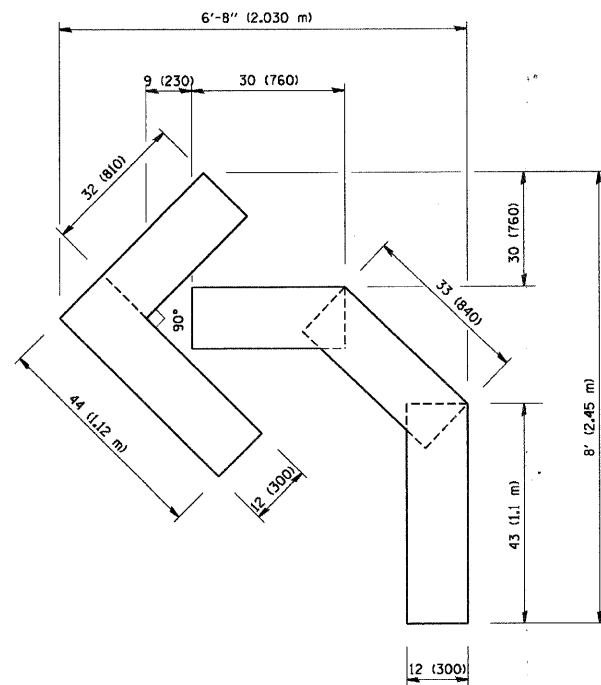
F.A. RTE.:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1453	55WRS	DuPAGE	362	269
TC-14		CONTRACT NO. 60D12		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



QUANTITY
 4 (100) LINE = 64.1 ft. (19.7 m)
 21.1 sq. ft. (1.97 sq. m)



QUANTITY
 4 (100) LINE = 82.5 ft. (25.3 m)
 27.5 sq. ft. (2.53 sq. m)



QUANTITY
 4 (100) LINE = 45.5 ft. (13.9 m)
 15.2 sq. ft. (1.39 sq. m)

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

FILE NAME = W:\diststd\22x34\to16.dgn	USER NAME = geglantob	DESIGNED -	REVISED - T. RAMMACHER 06-05-96
		DRAWN -	REVISED - T. RAMMACHER 11-04-97
	PLLOT SCALE = 50.0000 "/ IN.	CHECKED -	REVISED - T. RAMMACHER 03-02-98
	PLLOT DATE = 1/4/2008	DATE - 09-18-94	REVISED - E. GOMEZ 08-28-00

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

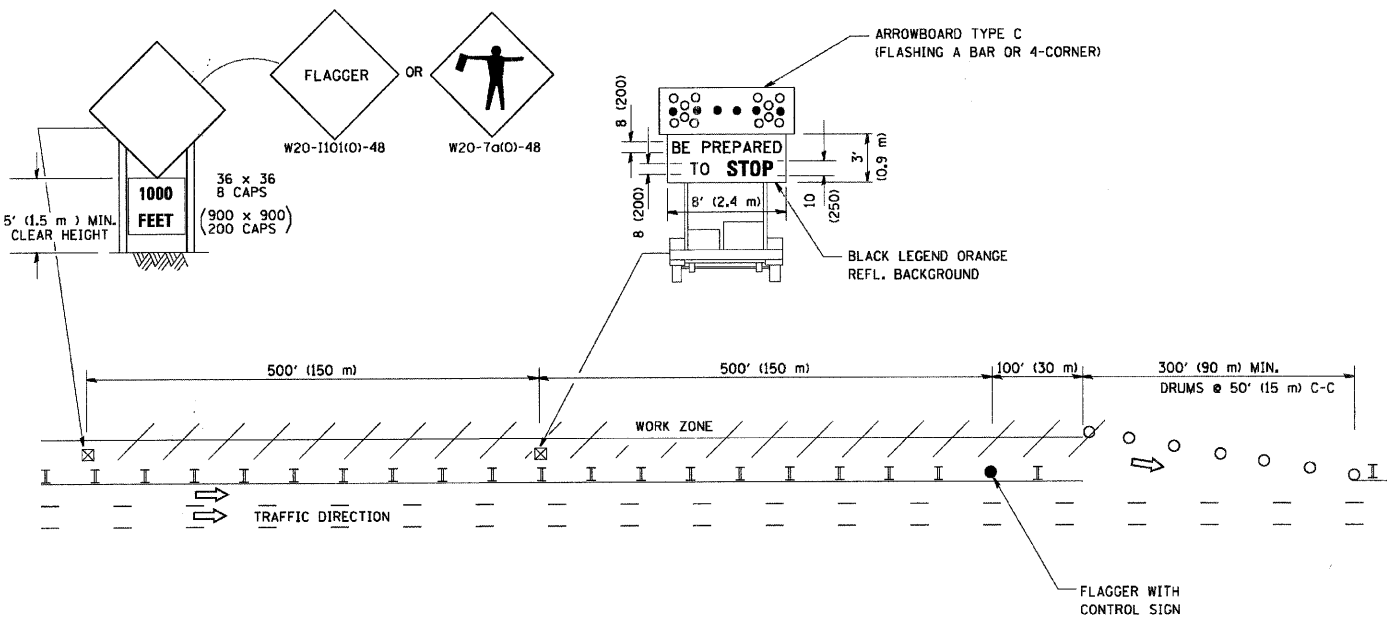
PAVEMENT MARKING LETTERS AND SYMBOLS
 FOR TRAFFIC STAGING

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

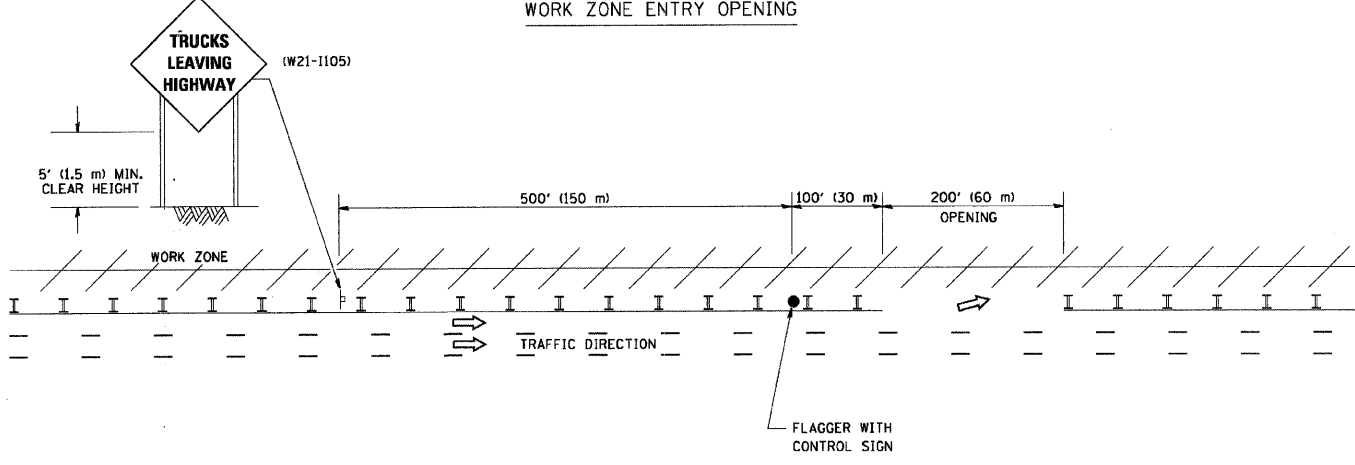
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1453	55WRS	DUPAGE	362	270
TC-16			CONTRACT NO. 60D12	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



- NOTES:
1. The Arrowboard, the Flagger Ahead trailer mounted sign, and the Trucks Leaving Highway sign shall be removed or turned away from traffic and the exit and entry openings shall be closed when the flagging operation ceases.
 2. Work Zone Exit Openings should be a minimum of one half mile apart.
 3. Exiting the work zone at any place other than at a Work Zone Exit Opening will be prohibited.
 4. All vehicles shall enter the work zone at entry openings, using their turn signals to warn motorists

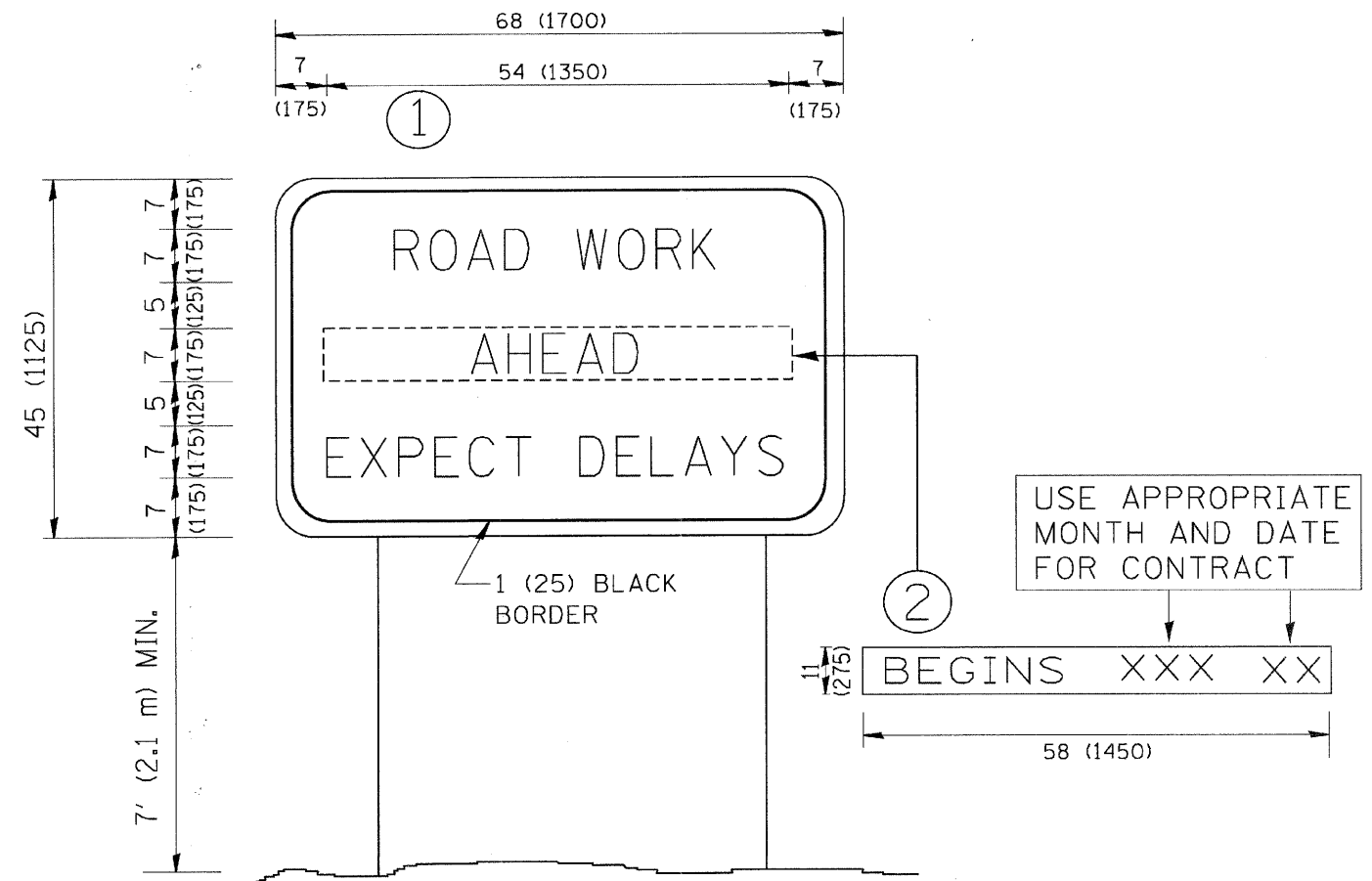
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME = W:\disto\22x34\to18.dgn	USER NAME = gaglienobt	DESIGNED -	REVISED - D.W.S. 08-98
		DRAWN -	REVISED - J.A.F. 04-03
		CHECKED -	REVISED - J.A.F. 02-06
		DATE -	REVISED - S.P.B. 01-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTE. 1453	SECTION 55WRS	COUNTY DuPAGE	TOTAL SHEETS 362	SHEET NO. 271
TC-18		CONTRACT NO. 60D12		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

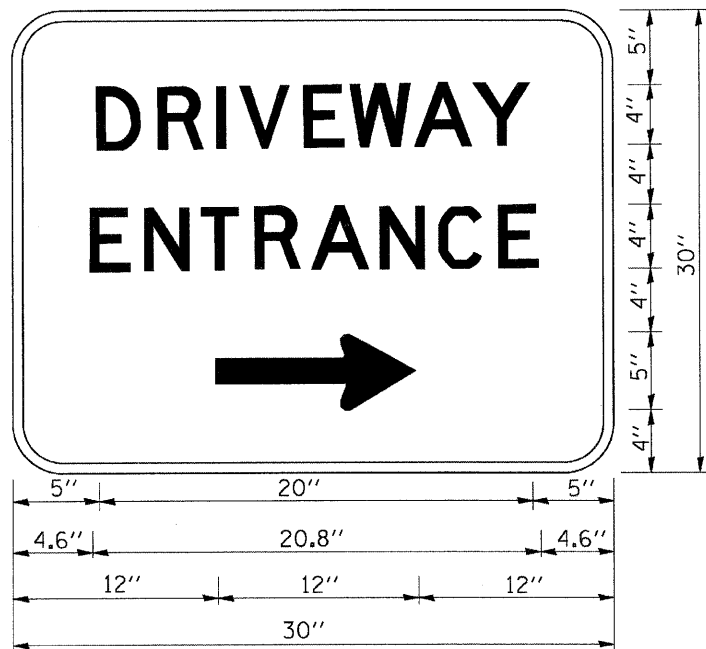


NOTES:

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

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

FILE NAME = W:\diststd\22x34\to22.dgn	USER NAME = gaglianobt	DESIGNED - DRAWN -	REVISED - REVISED -	R. MIRS 09-15-97 R. MIRS 12-11-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN			F.A. RTE. 1453	SECTION 55WRS	COUNTY DUPAGE	TOTAL SHEETS 362	SHEET NO. 272
	PLLOT SCALE = 50.000' / IN.	CHECKED -	REVISED -	T. RAMMACHER 02-02-99		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	TC-22 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			
	PLLOT DATE = 1/4/2008	DATE -	REVISED -	C. JUCIUS 01-31-07									
CONTRACT NO. 60D12													



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

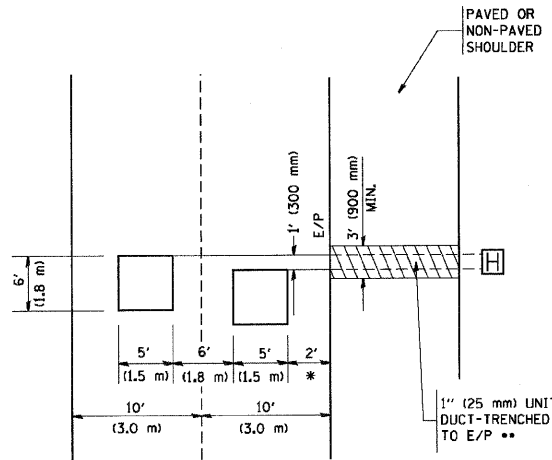
NOTES:

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

FILE NAME = W:\diststd\22x34\to26.dgn	USER NAME = goglianobt	DESIGNED -	REVISED - C. JUCIUS 02-15-07	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRIVEWAY ENTRANCE SIGNING			F.A. RTE. 1453	SECTION 55WRS	COUNTY DU PAGE	TOTAL SHEETS 362	SHEET NO. 273
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	TC-26			
	PLOT DATE = 1/4/2000	DATE -	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
CONTRACT NO. 60D12												

LOOPS NEXT TO SHOULDERS

PROVIDE A PAVEMENT REPLACEMENT
NOTE WHICH SHOULD EQUAL
3' (900 mm) X WIDTH OF
PAVED SHOULDER.

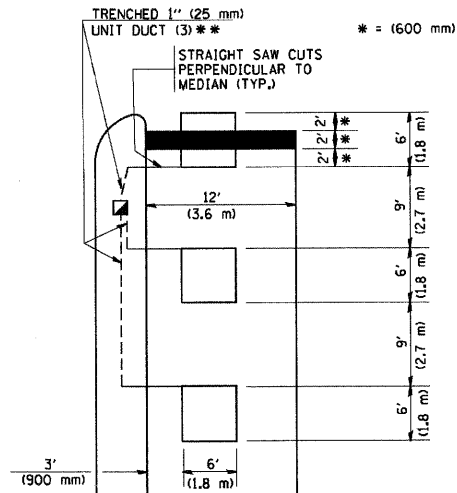


* = (600 mm)

** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS
BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

**LEFT TURN LANES WITH MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH
(PROTECTED / PERMITTED LEFT TURN PHASING)**

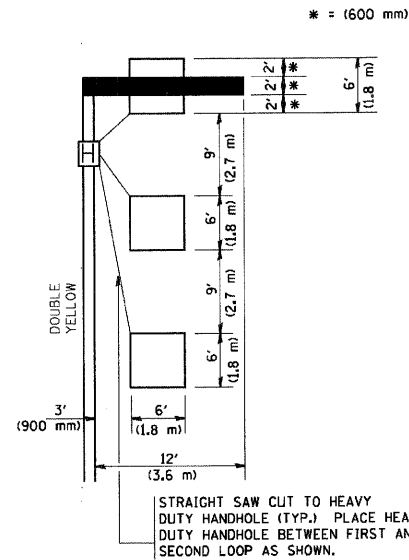
HANDHOLE LOCATION MAY
VARY DEPENDING ON GEOMETRICS
AND DESIGN OF TRAFFIC SIGNALS.
HEAVY-DUTY HANDHOLES TO BE
USED WHEN THE MEDIAN IS
MOUNTABLE. REFER TO STANDARD
814001 TO ENSURE THAT HANDHOLE
FITS IN MEDIAN.



** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS
BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

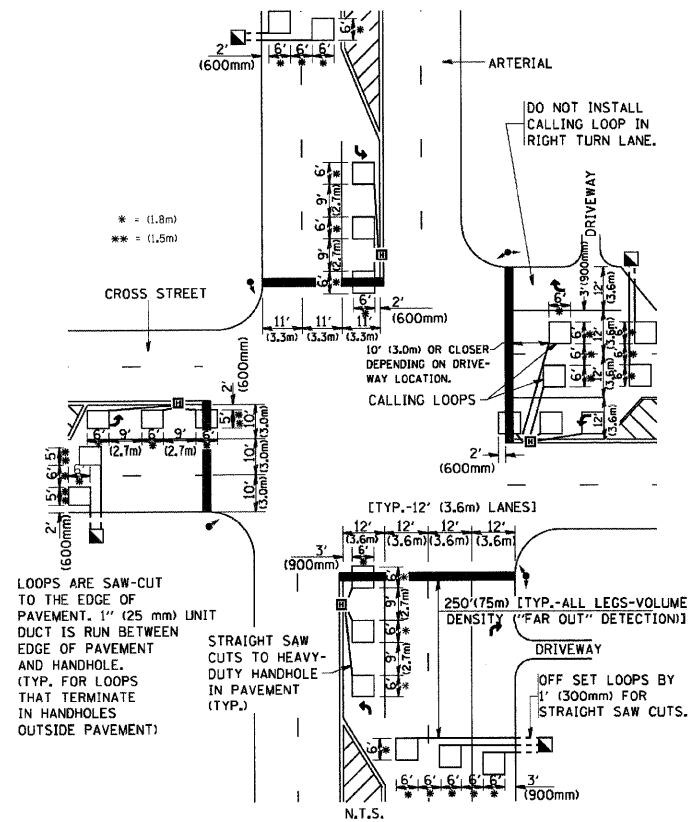
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO
PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

**LEFT TURN LANES WITHOUT MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH
(PROTECTED / PERMITTED LEFT TURN PHASING)**



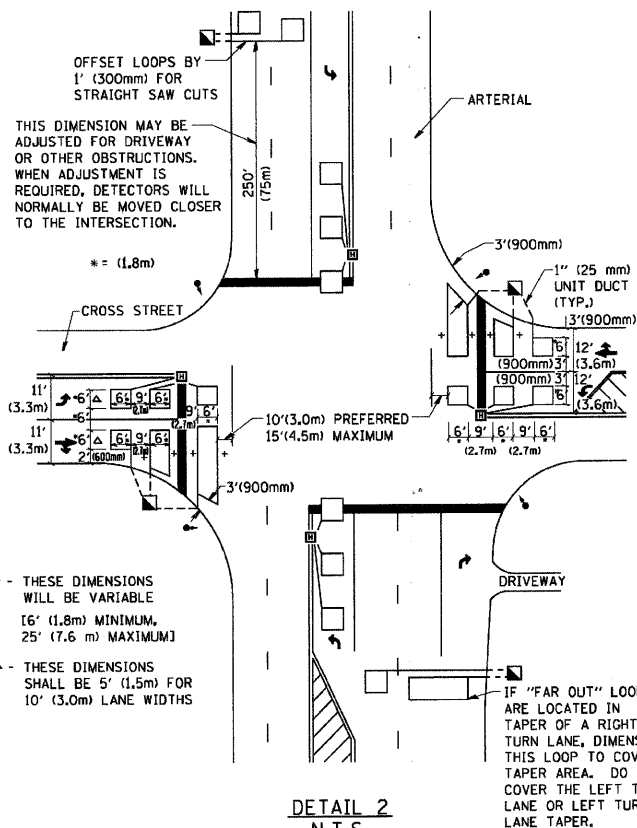
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO
PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

**ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-VOLUME DENSITY ("FAR OUT" DETECTION)**



DETAIL 1
N.T.S.

**ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-NON VOLUME DENSITY ("UPTIGHT" PRESENCE DETECTION)**



DETAIL 2
N.T.S.

NOTES:

VEHICLES LOOP DETECTORS

- * ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATELY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- * ONE DIMENSION OF ALL DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
- * EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
- * WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (i.e. 1-1/2, 1-3/4, 2).
- * WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED, THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

PLACEMENT OF DETECTORS

THE FOLLOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.

LOCATIONS AND DIMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON ALL SIGNAL LAYOUT PLAN SHEETS.

"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAVEMENT EXTENDED.

NOTE:

ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1 TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

FILE NAME =
W:\distd\22x34\ts07.dgn

USER NAME = gaglionobt
PLDT SCALE = 50.0000" / IN.
PLDT DATE = 1/4/2008

DESIGNED -
DRAWN -
CHECKED - R.K.F.
DATE -

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

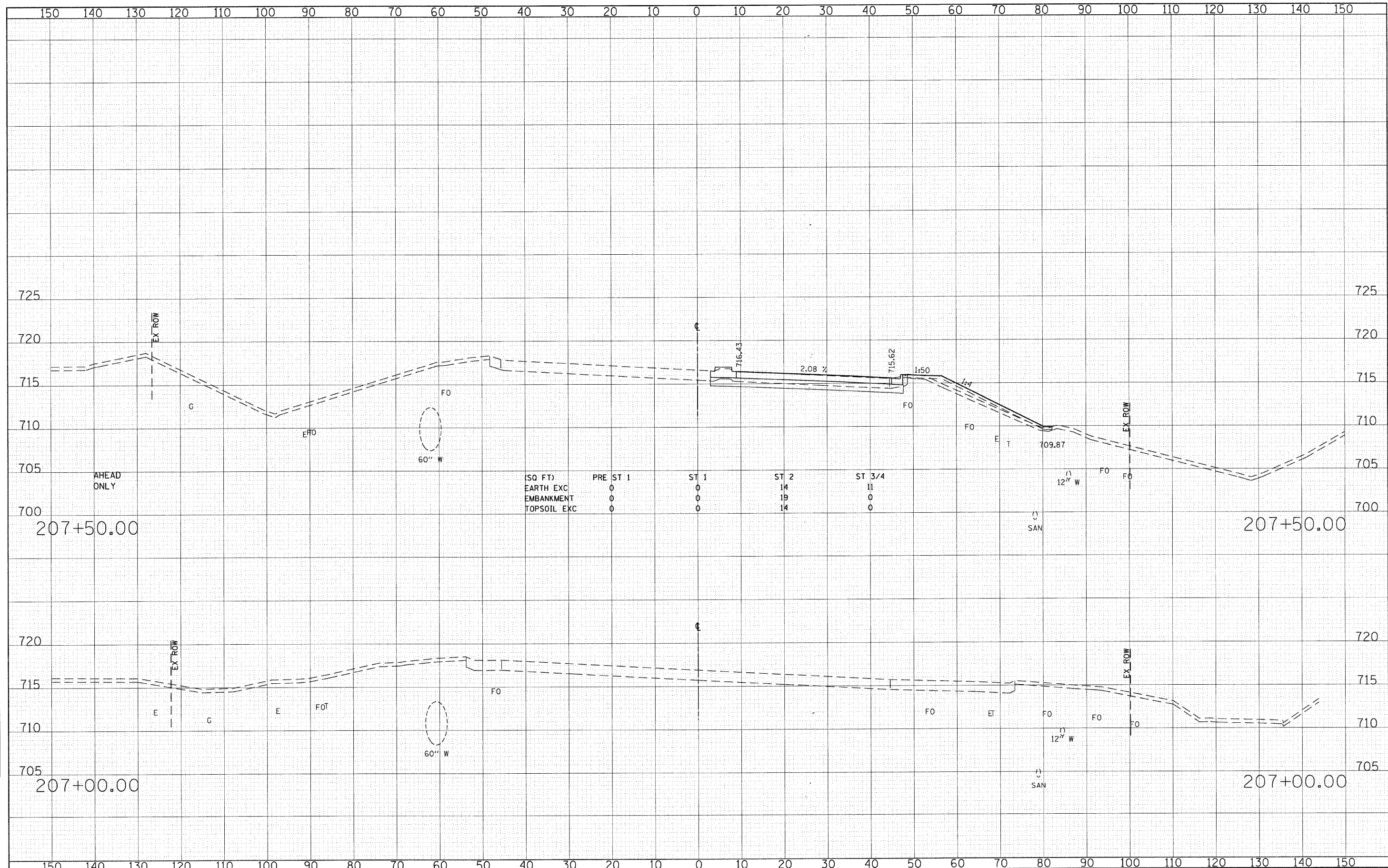
**DISTRICT 1 - DETECTOR LOOP INSTALLATION
DETAILS FOR ROADWAY RESURFACING**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1453	55WRS	DuPAGE	362	274
TS-07			CONTRACT NO. 60D12	
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				

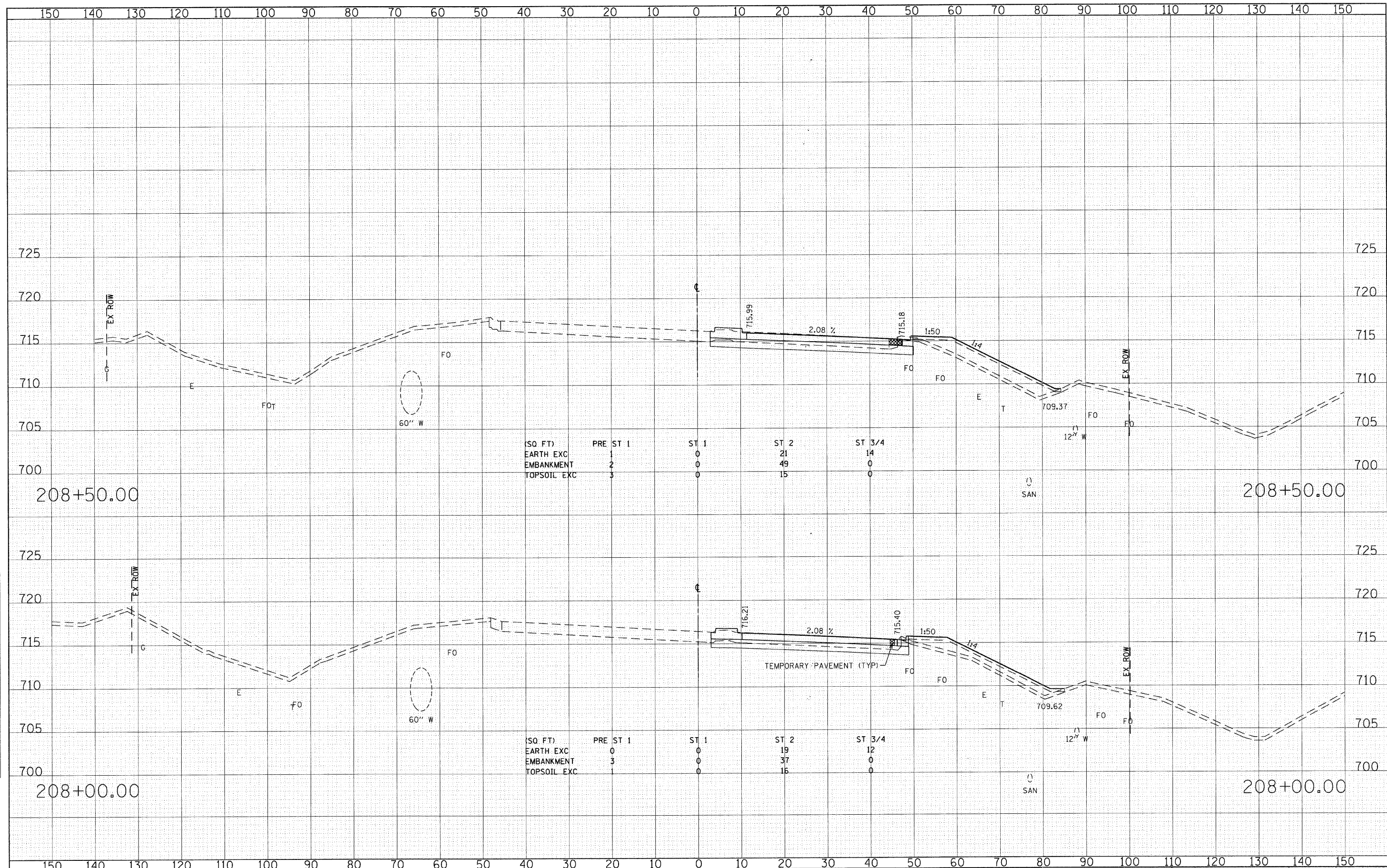
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ORIGINAL SURVEY	DATE
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ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



(SQ FT)	PRE	ST 1	ST 1	ST 2	ST 3/4
EARTH EXC	1	0	0	21	14
EMBANKMENT	2	0	0	49	0
TOPSOIL EXC	3	0	0	15	0

(SQ FT)	PRE	ST 1	ST 1	ST 2	ST 3/4
EARTH EXC	0	0	0	19	12
EMBANKMENT	3	0	0	37	0
TOPSOIL EXC	1	0	0	16	0

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 PLT SCALE = 10.0000' / IN.
 PLT DATE = 8/5/2009

DESIGNED - JMC
 DRAWN - JMC
 CHECKED - JRH
 DATE - 07/24/2009

REVISED -
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 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

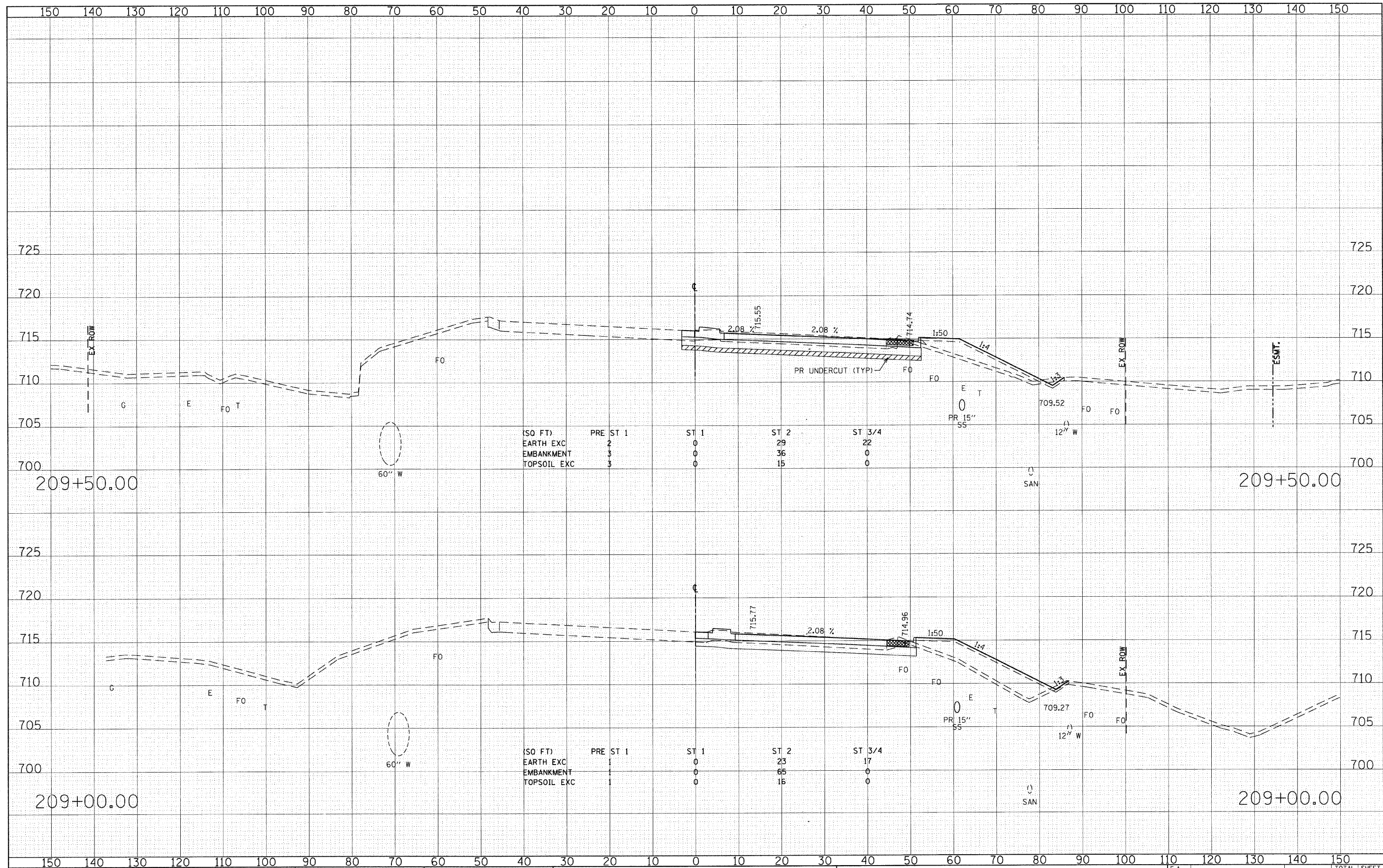
CROSS SECTIONS - 22nd STREET

SCALE: HORIZ: 1"=10'
 VERT: 1"=5'
 SHEET NO. 276 OF 362 SHEETS
 STA. 208+00.00 TO STA. 208+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1453	55WRS	DUPAGE	362	276
CONTRACT NO. 60D12				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

FINAL SURVEY BY DATE
 SURVEYED PLOTTED
 NOTE BOOK NO. DATE
 AREAS CHECKED
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ORIGINAL SURVEY BY DATE
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 NOTE BOOK NO. DATE
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 CHECKED - JRH
 DATE - 07/24/2009

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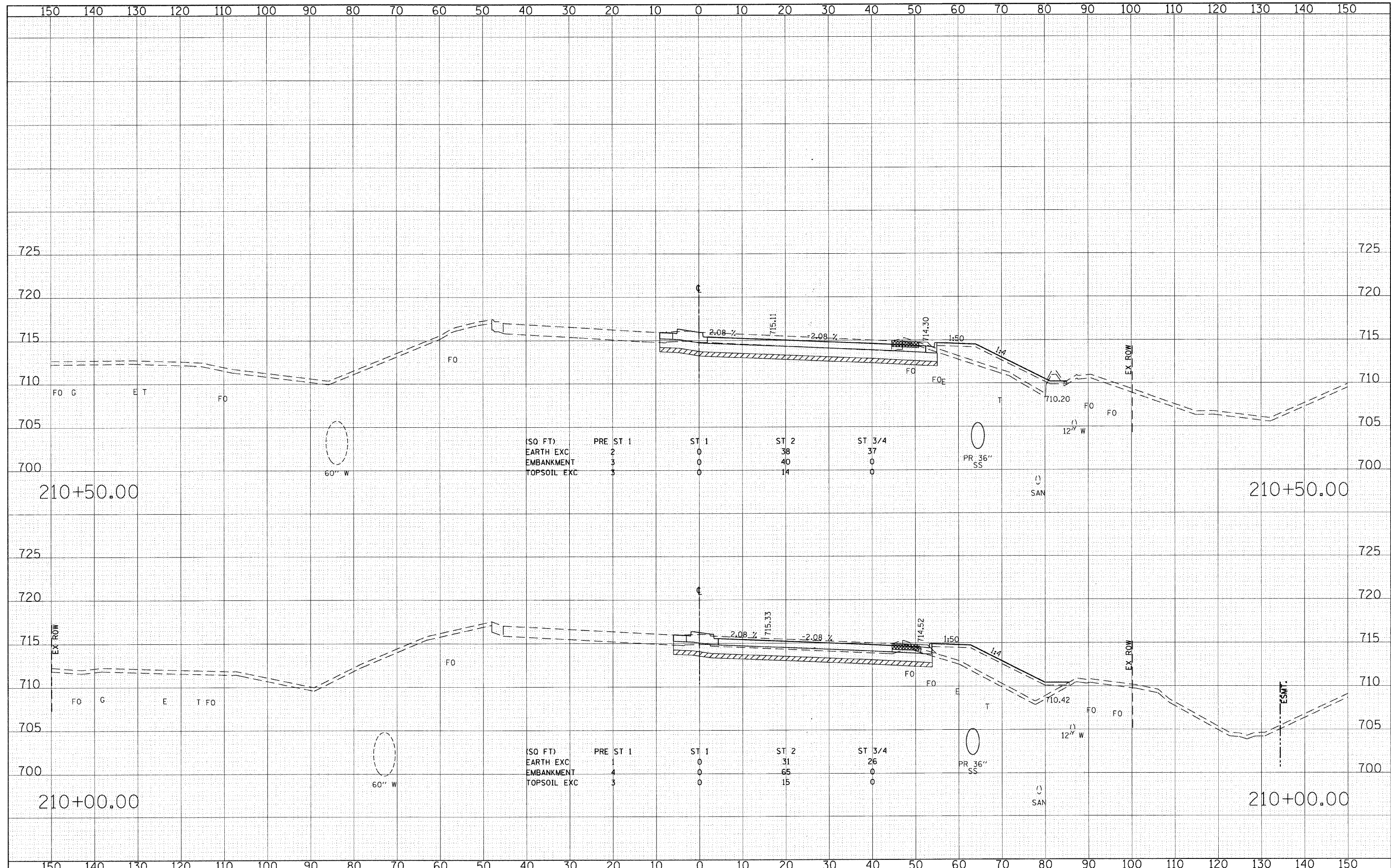
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - 22nd STREET
 SCALE: HORIZ: 1"=10'
 VERT: 1"=5'
 SHEET NO. 277 OF 362 SHEETS
 STA. 209+00.00 TO STA. 209+50.00

F.A. RTE. 1453	SECTION 55WRS	COUNTY DuPAGE	TOTAL SHEETS 362	SHEET NO. 277
CONTRACT NO. 60D12				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

FINAL SURVEY SURVEYED PLOTTED
 NOTE BOOK NO. AREAS CHECKED

ORIGINAL SURVEY SURVEYED PLOTTED
 NOTE BOOK NO. AREAS CHECKED



(SQ FT)	PRE ST 1	ST 1	ST 2	ST 3/4
EARTH EXC	2	0	38	37
EMBANKMENT	3	0	40	0
TOPSOIL EXC	3	0	14	0

(SQ FT)	PRE ST 1	ST 1	ST 2	ST 3/4
EARTH EXC	1	0	31	26
EMBANKMENT	4	0	65	0
TOPSOIL EXC	3	0	15	0

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 DRAWN - JMG
 CHECKED - JRH
 DATE - 07/24/2009

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - 22nd STREET

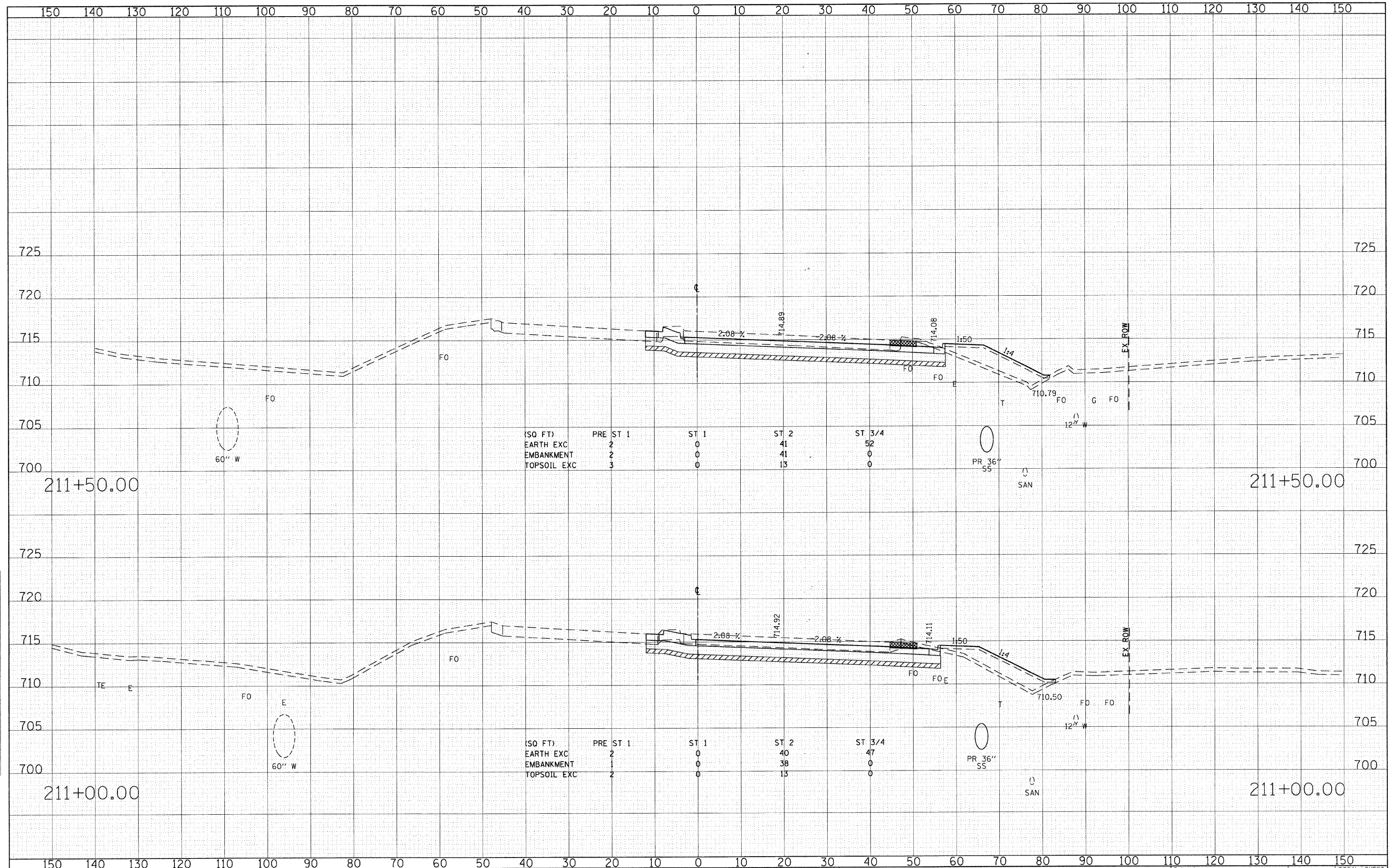
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 VERT: 1"=5'

SHEET NO. 278 OF 362 SHEETS STA. 210+00.00 TO STA. 210+50.00

F.A. RTE. 1453	SECTION 55WRS	COUNTY DuPAGE	TOTAL SHEETS 362	SHEET NO. 278
CONTRACT NO. 60D12				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

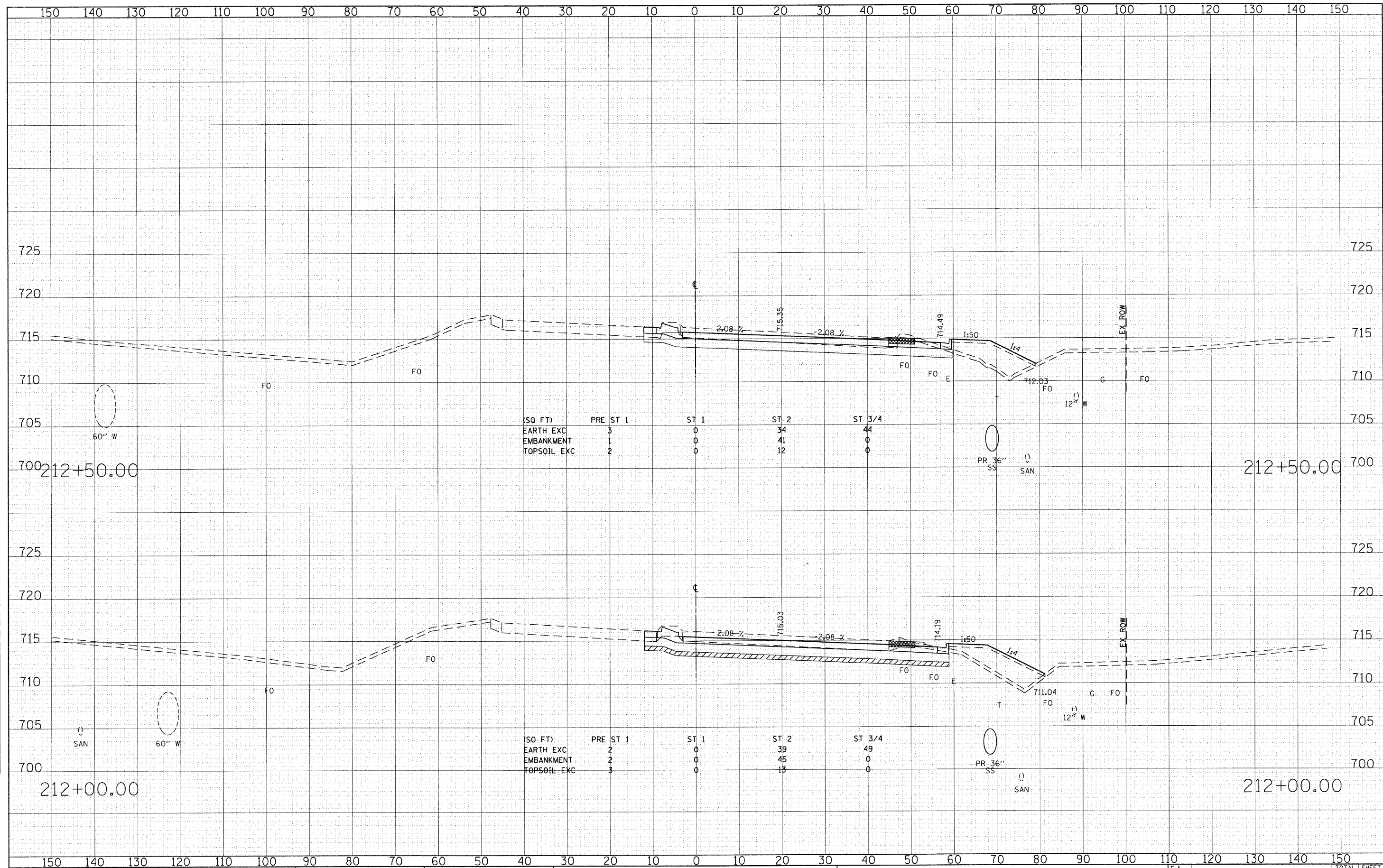
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(SQ FT)	PRE	ST 1	ST 1	ST 2	ST 3/4
EARTH EXC	3	0	0	34	44
EMBANKMENT	1	0	0	41	0
TOPSOIL EXC	2	0	0	12	0

(SQ FT)	PRE	ST 1	ST 1	ST 2	ST 3/4
EARTH EXC	2	0	0	39	49
EMBANKMENT	2	0	0	45	0
TOPSOIL EXC	3	0	0	13	0

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 PLOT DATE = 8/5/2009

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

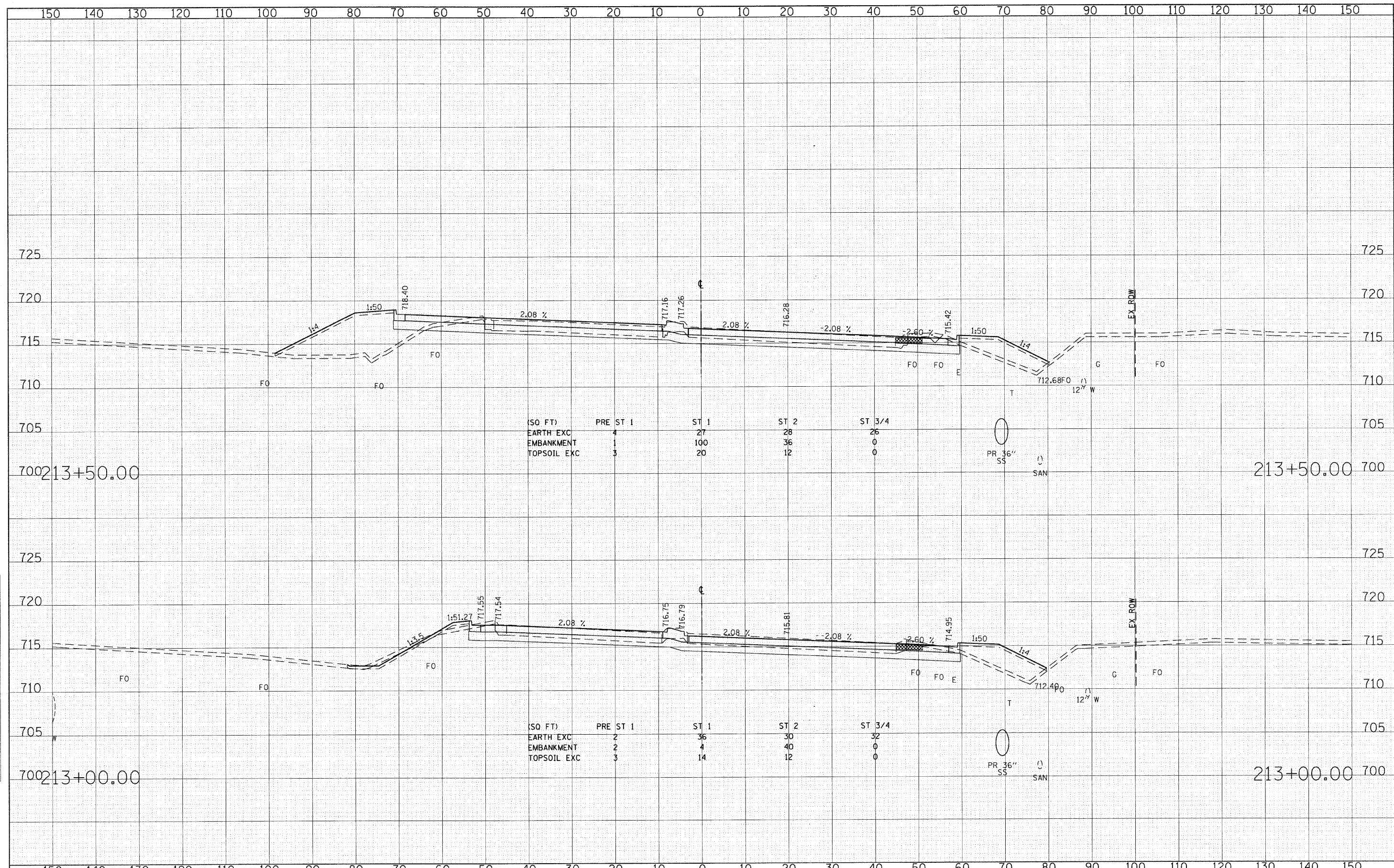
CROSS SECTIONS - 22nd STREET

SCALE: HORIZ: 1"=10'
 VERT: 1"=5'
 SHEET NO. 280 OF 362 SHEETS STA. 212+00.00 TO STA. 212+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1453	55WRS	DUPAGE	362	280
CONTRACT NO. 60D12				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

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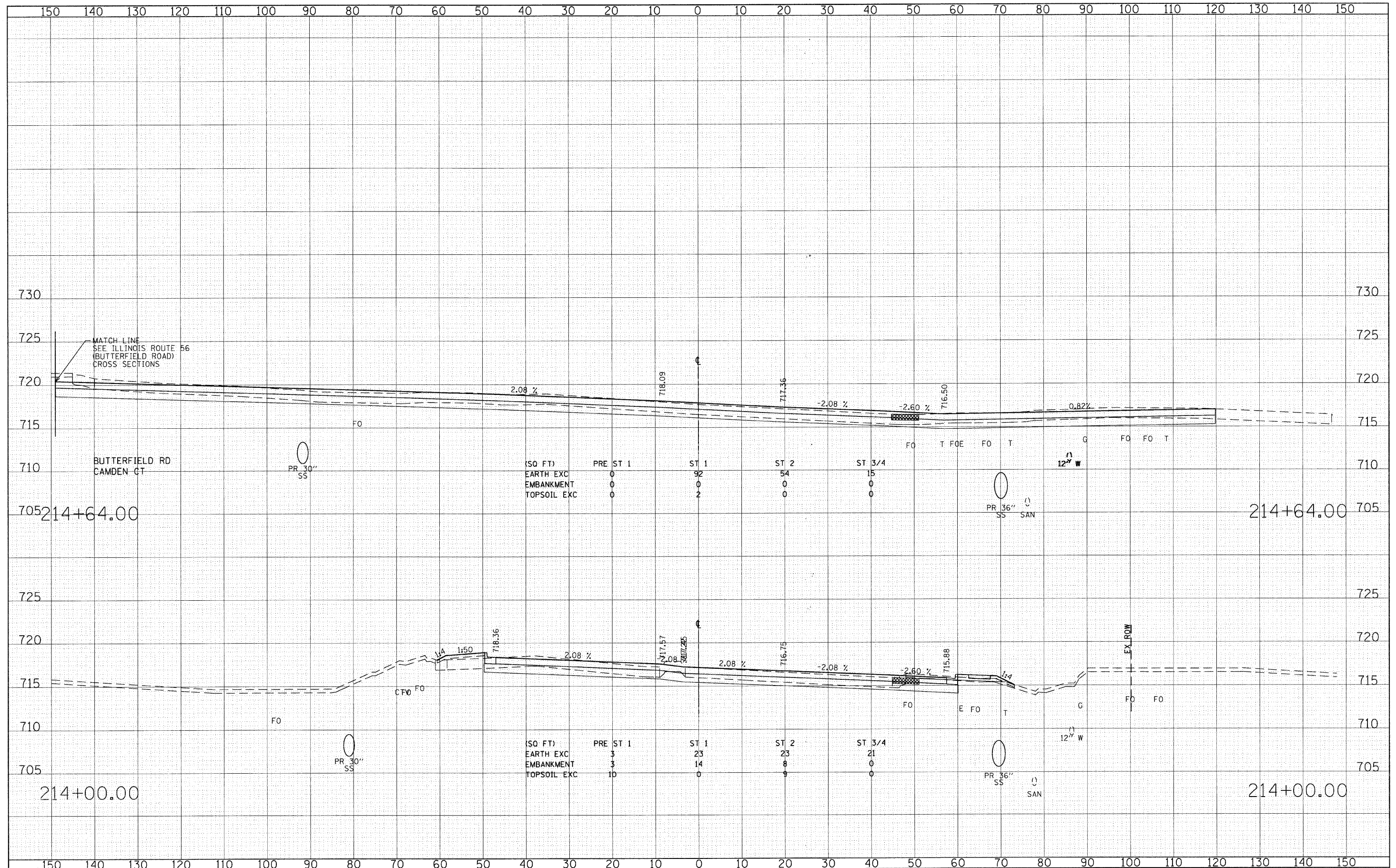


(SQ FT)	PRE ST 1	ST 1	ST 2	ST 3/4
EARTH EXC	4	27	28	26
EMBANKMENT	1	100	36	0
TOPSOIL EXC	3	20	12	0

(SQ FT)	PRE ST 1	ST 1	ST 2	ST 3/4
EARTH EXC	2	36	30	32
EMBANKMENT	2	4	40	0
TOPSOIL EXC	3	14	12	0

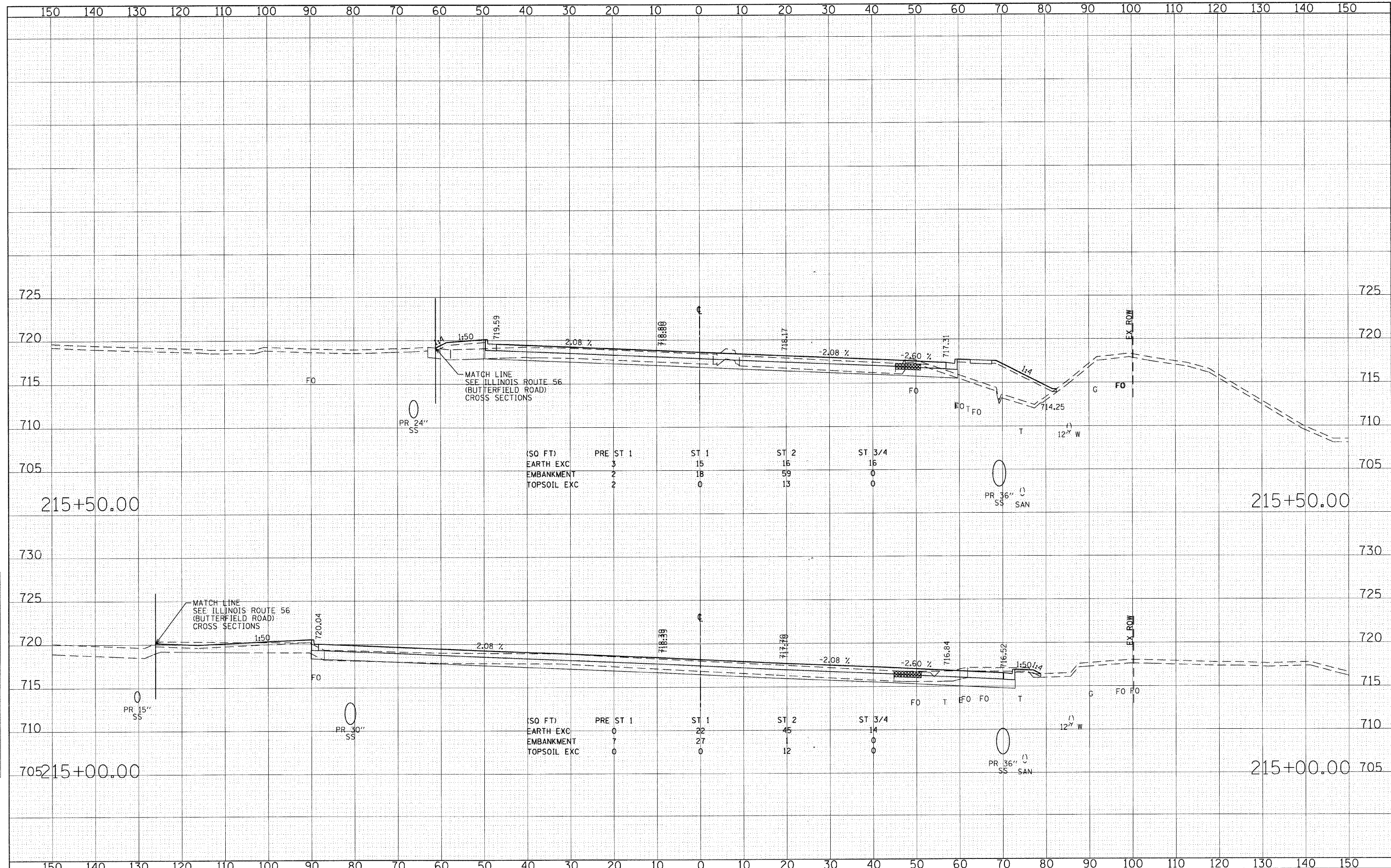
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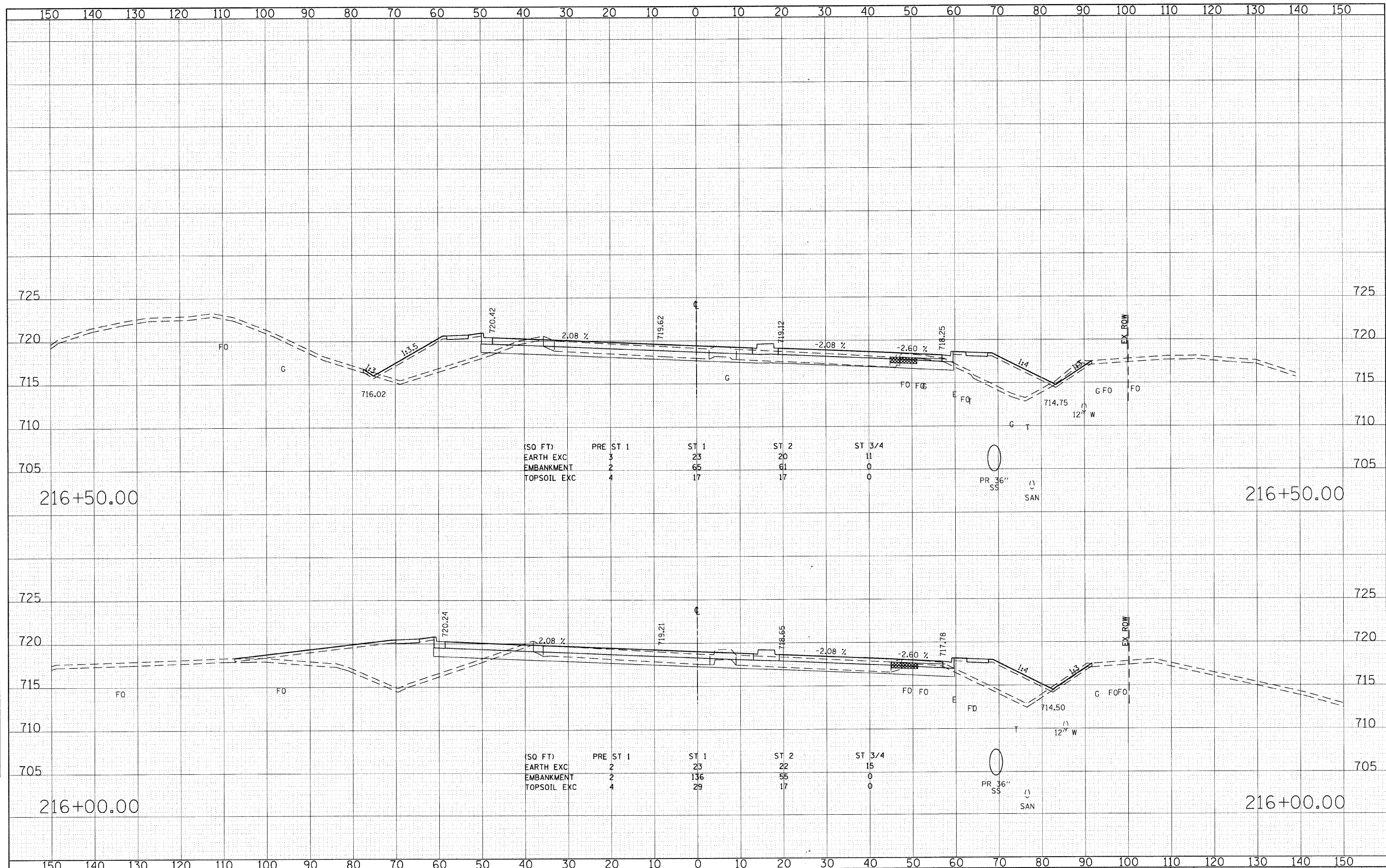


(50 FT)	PRE	ST 1	ST 1	ST 2	ST 3/4
EARTH EXC	3	15	16	16	16
EMBANKMENT	2	18	59	0	0
TOPSOIL EXC	2	0	13	0	0

(50 FT)	PRE	ST 1	ST 1	ST 2	ST 3/4
EARTH EXC	0	22	45	14	14
EMBANKMENT	7	27	1	0	0
TOPSOIL EXC	0	0	12	0	0

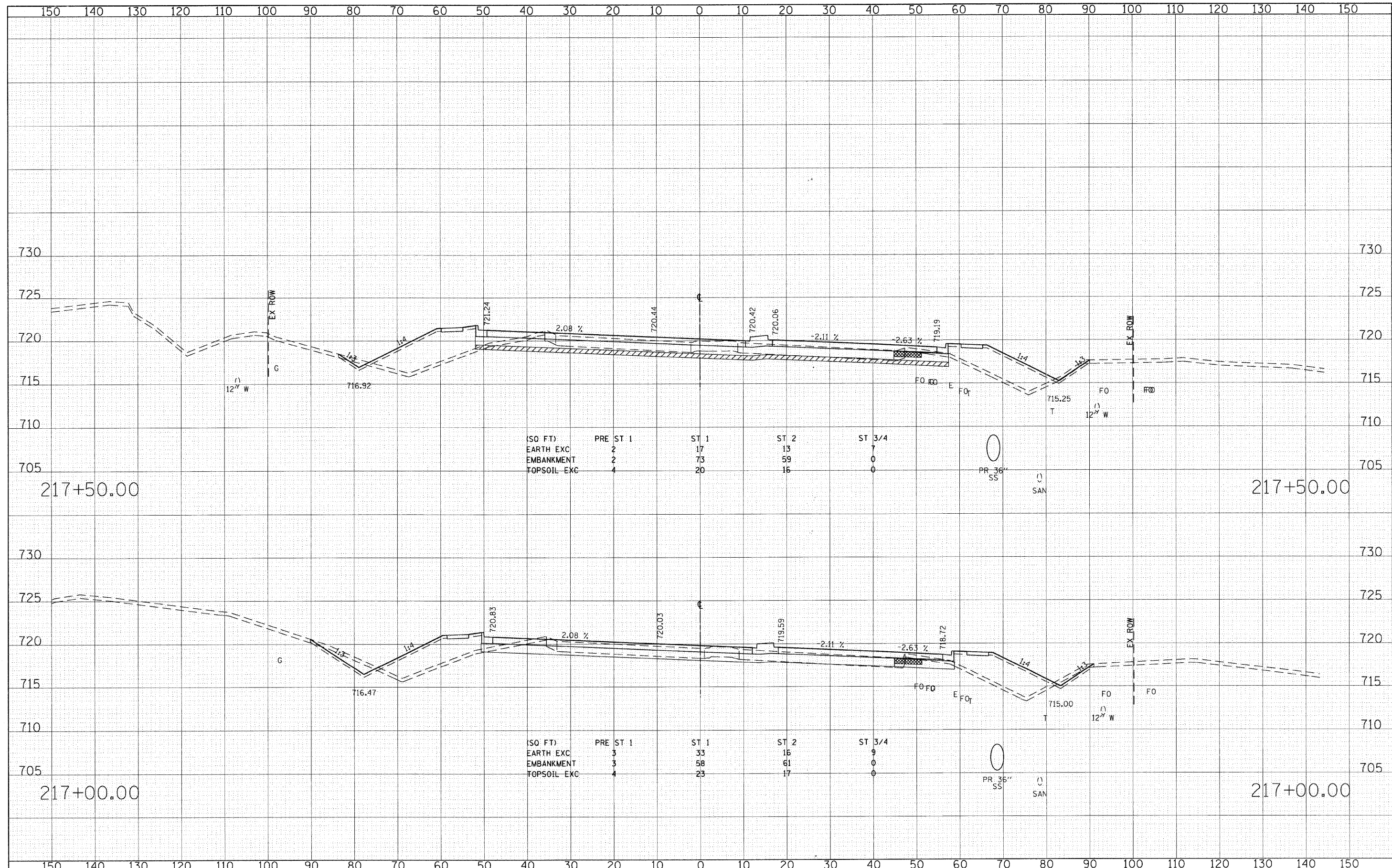
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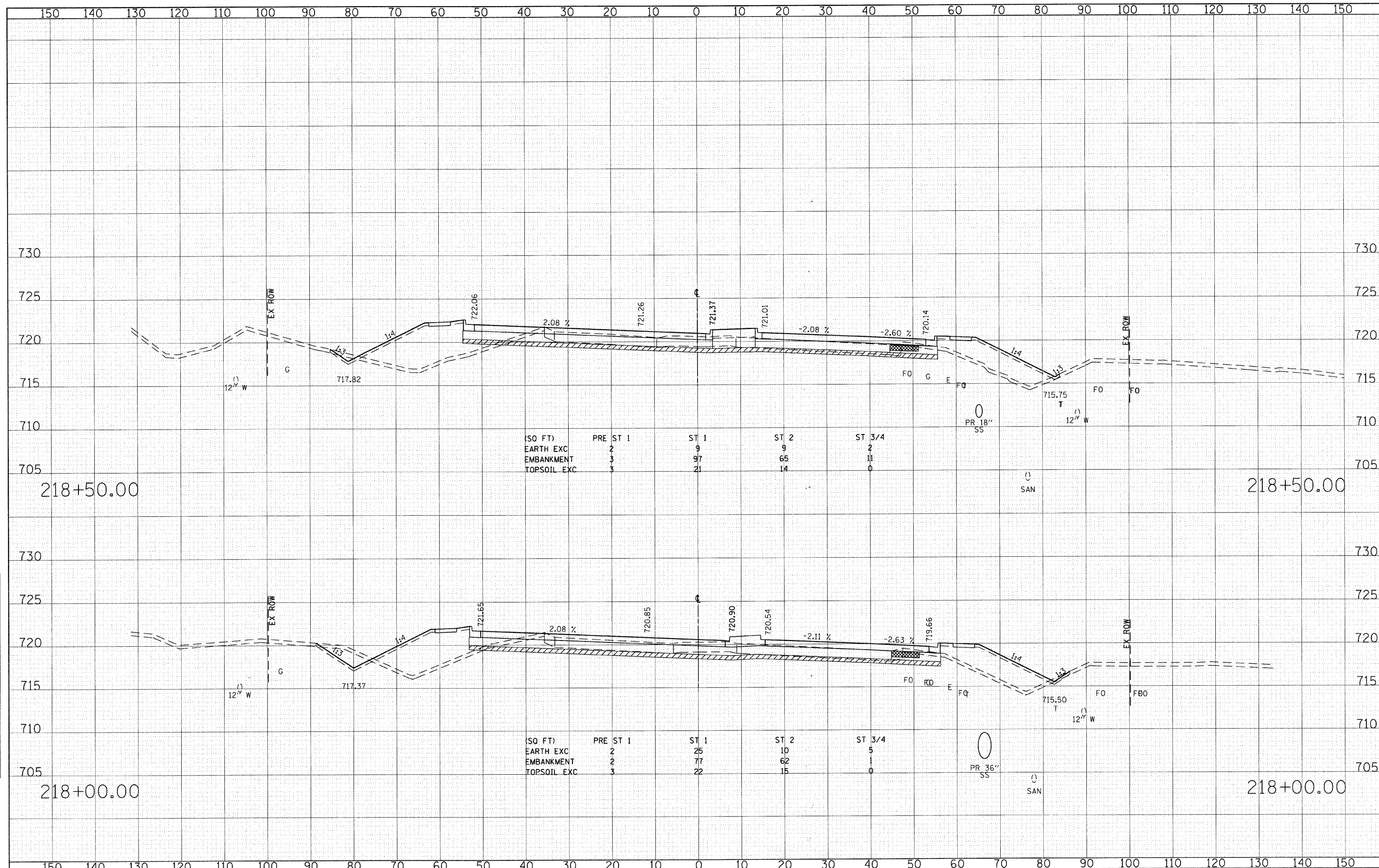
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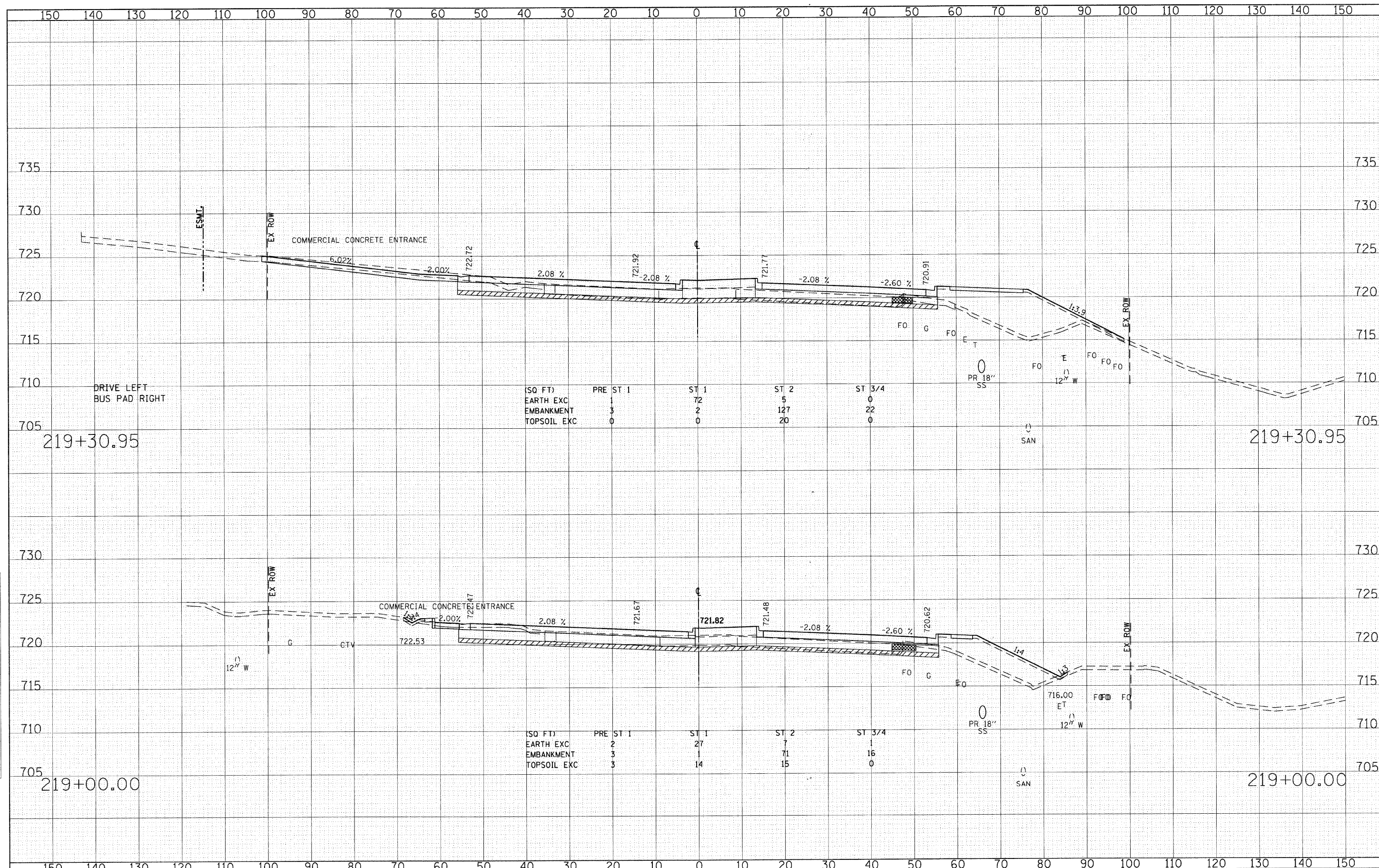
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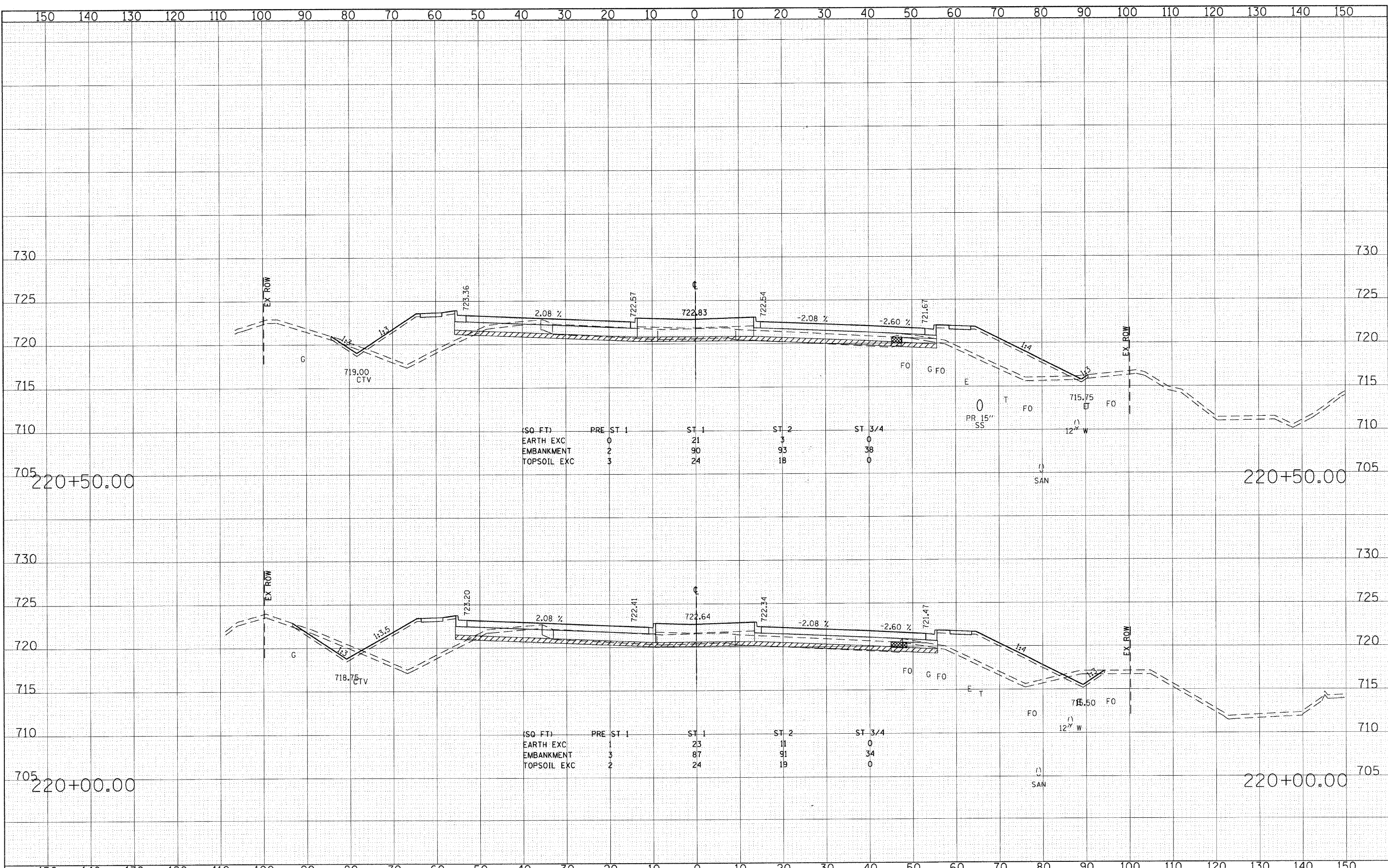
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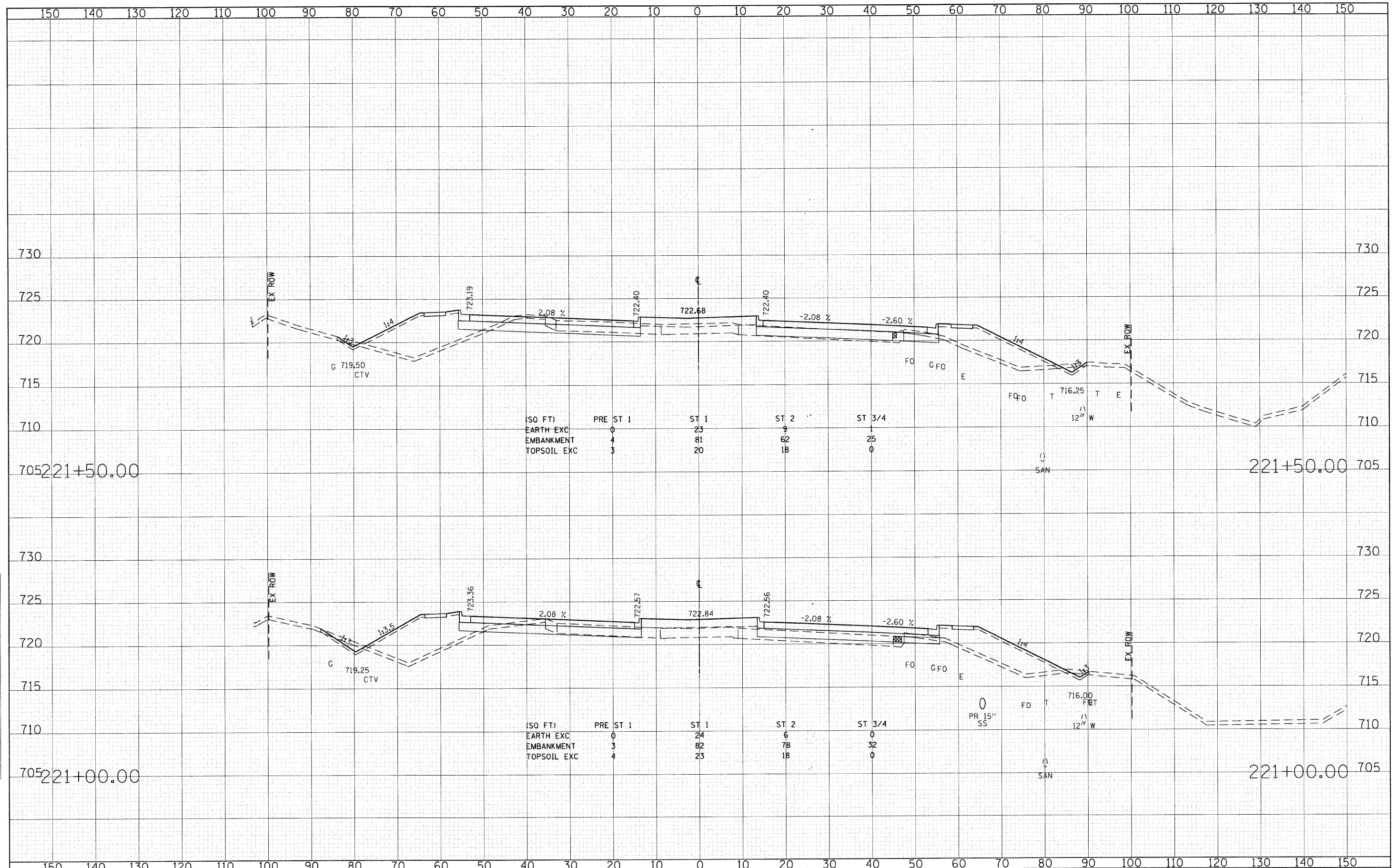
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ORIGINAL SURVEY	SURVEYED
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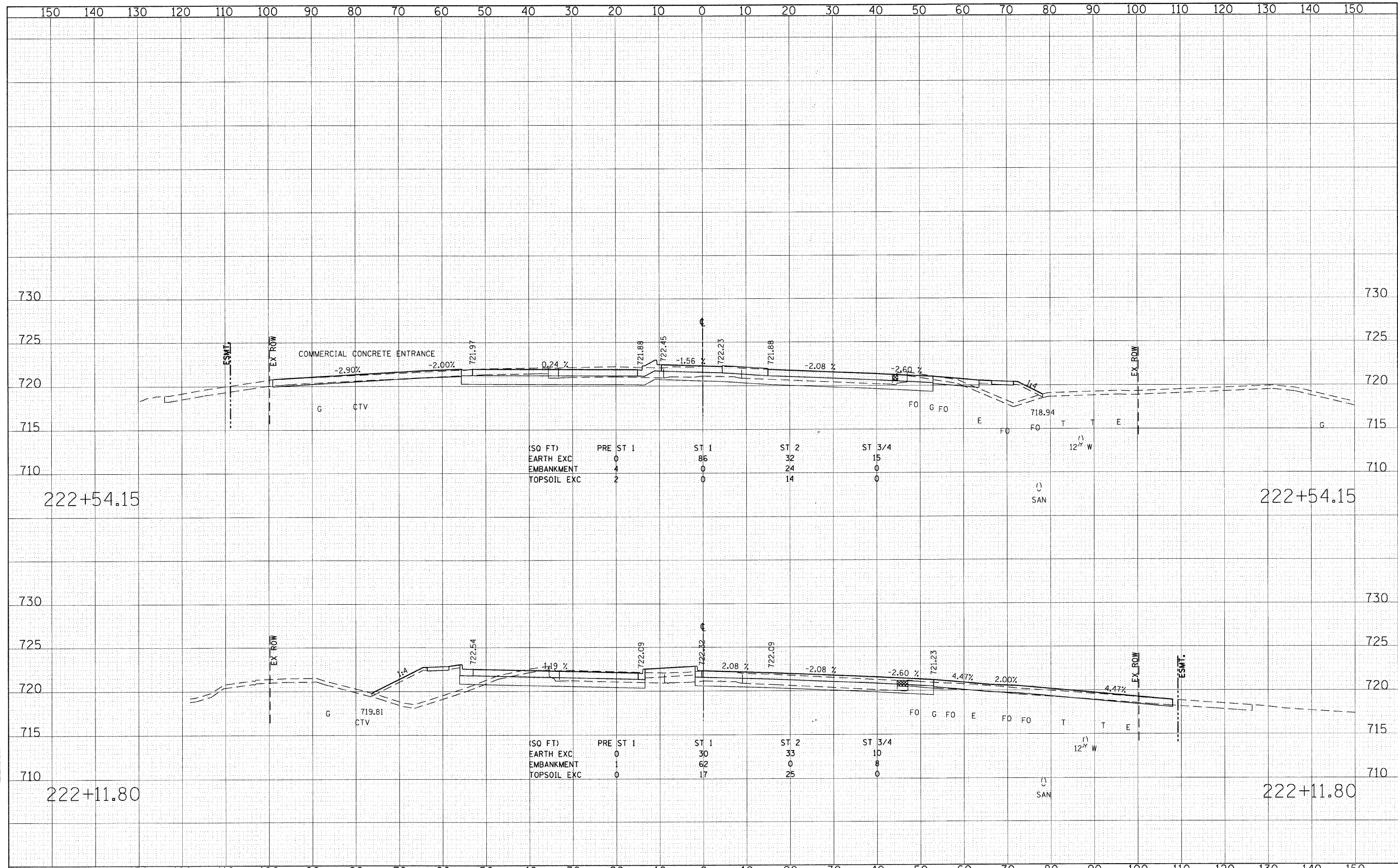


(SQ FT)	PRE	ST 1	ST 1	ST 2	ST 3/4
EARTH EXC	0	23	81	62	25
EMBANKMENT	4				
TOPSOIL EXC	3		20	18	0

(SQ FT)	PRE	ST 1	ST 1	ST 2	ST 3/4
EARTH EXC	0	24	82	6	0
EMBANKMENT	3			78	32
TOPSOIL EXC	4		23	18	0

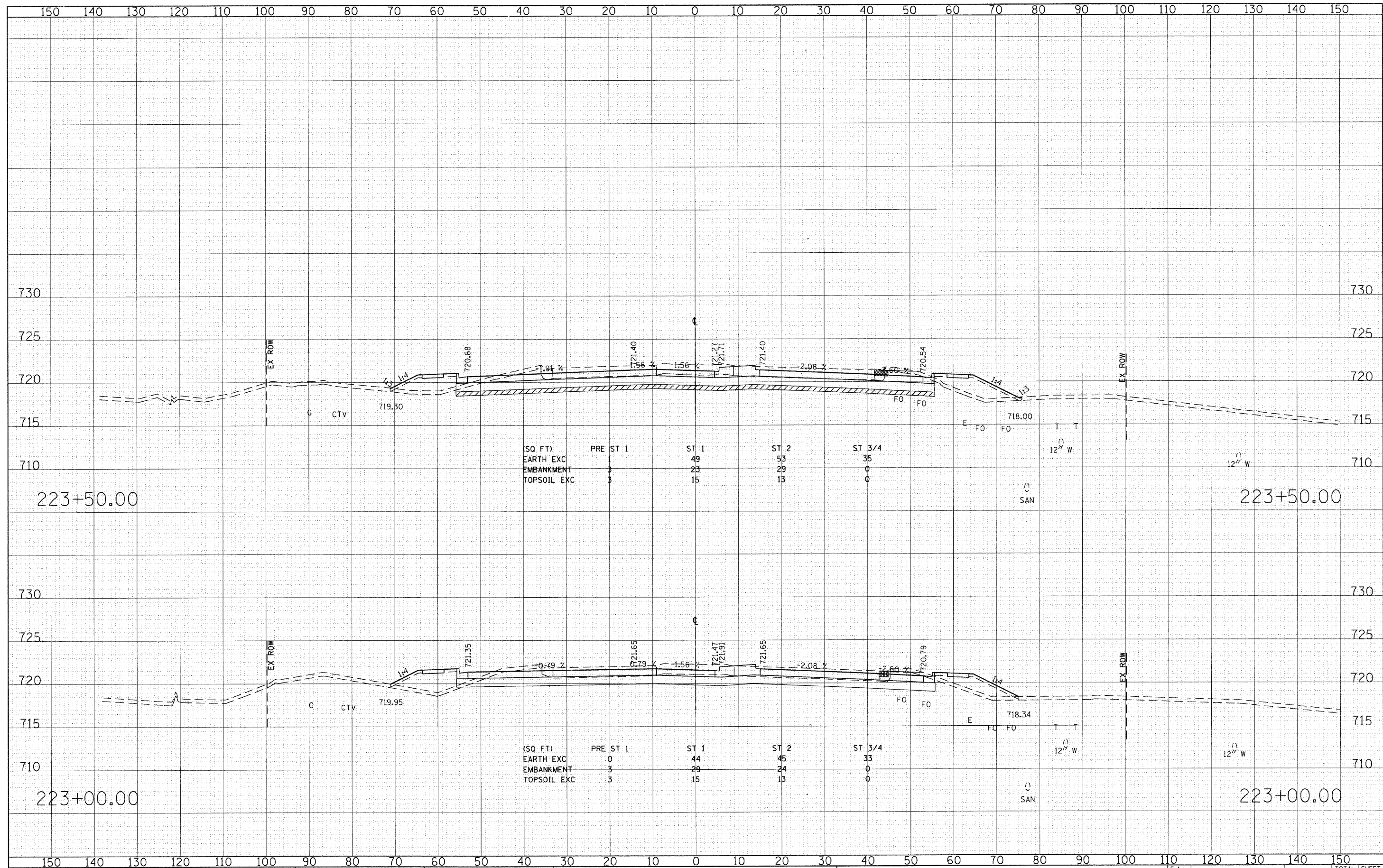
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ORIGINAL SURVEY	BY	DATE
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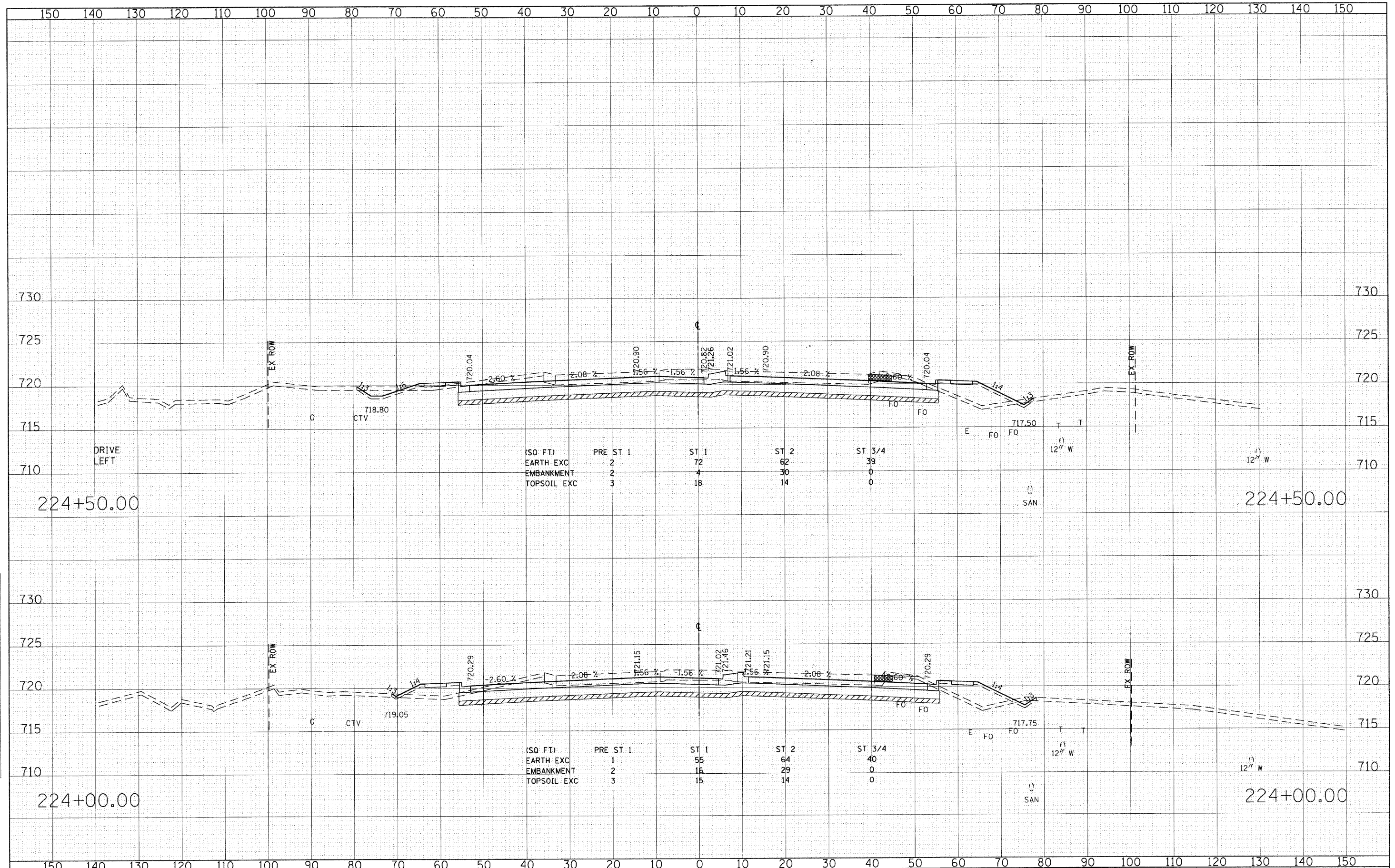
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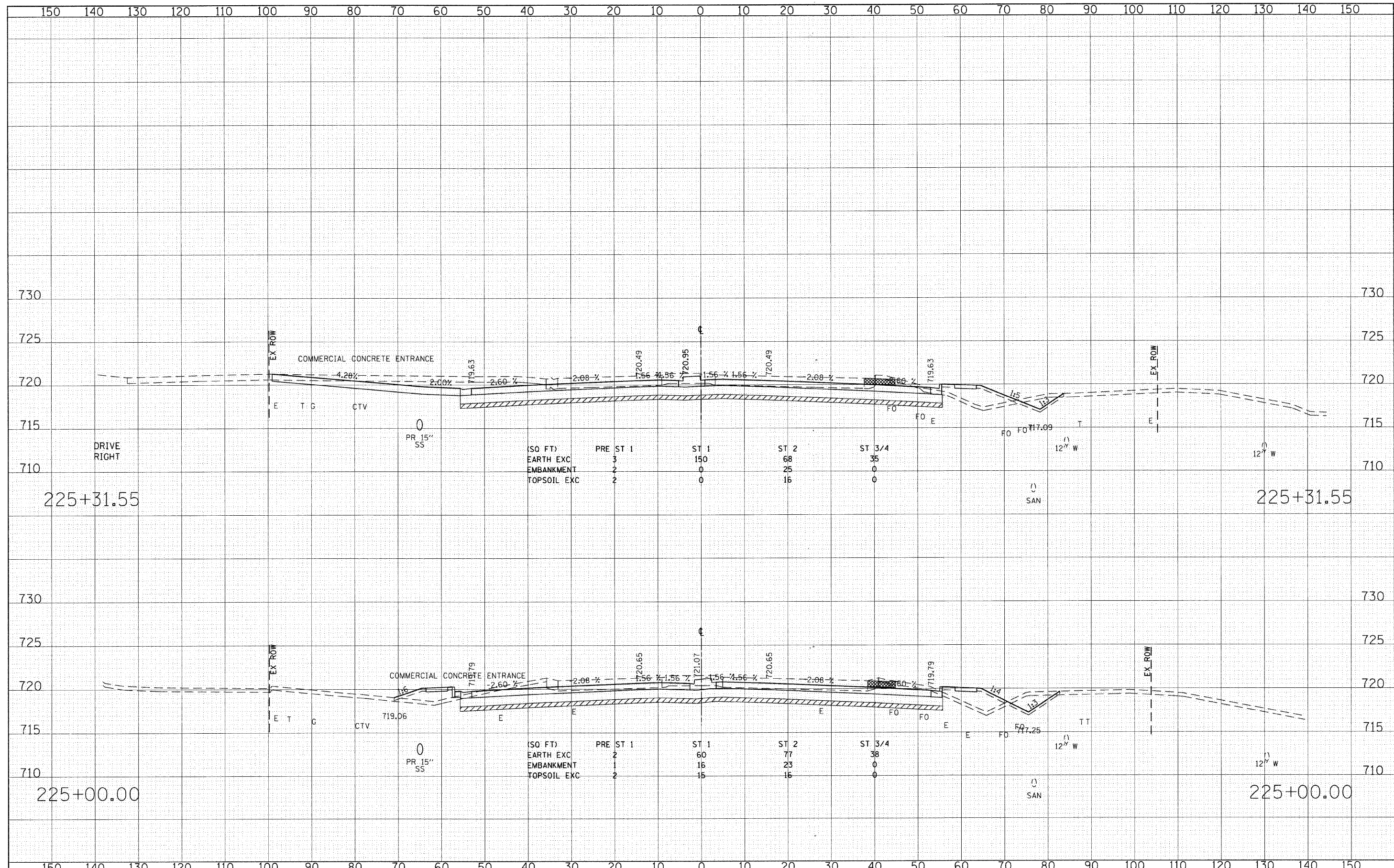
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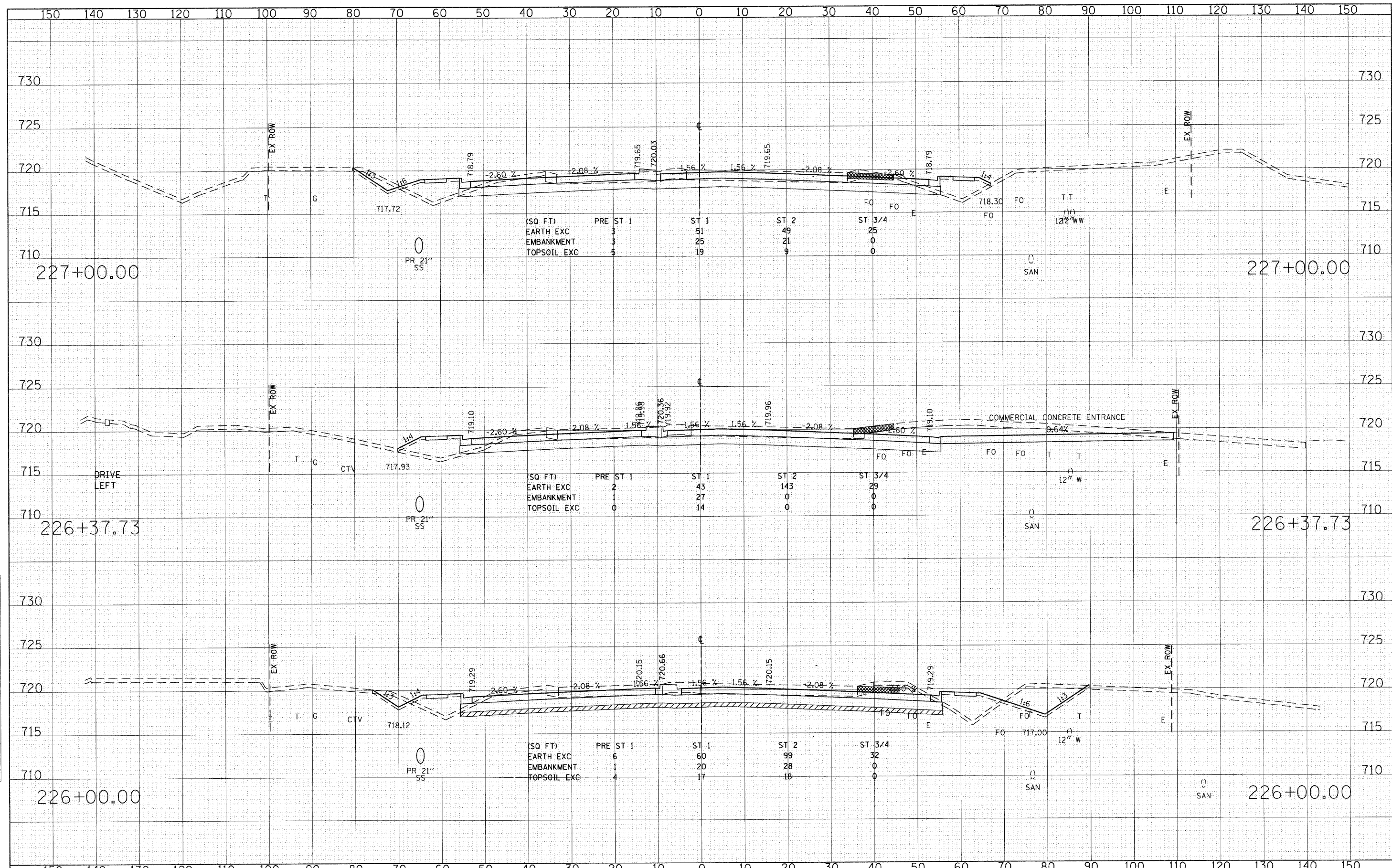
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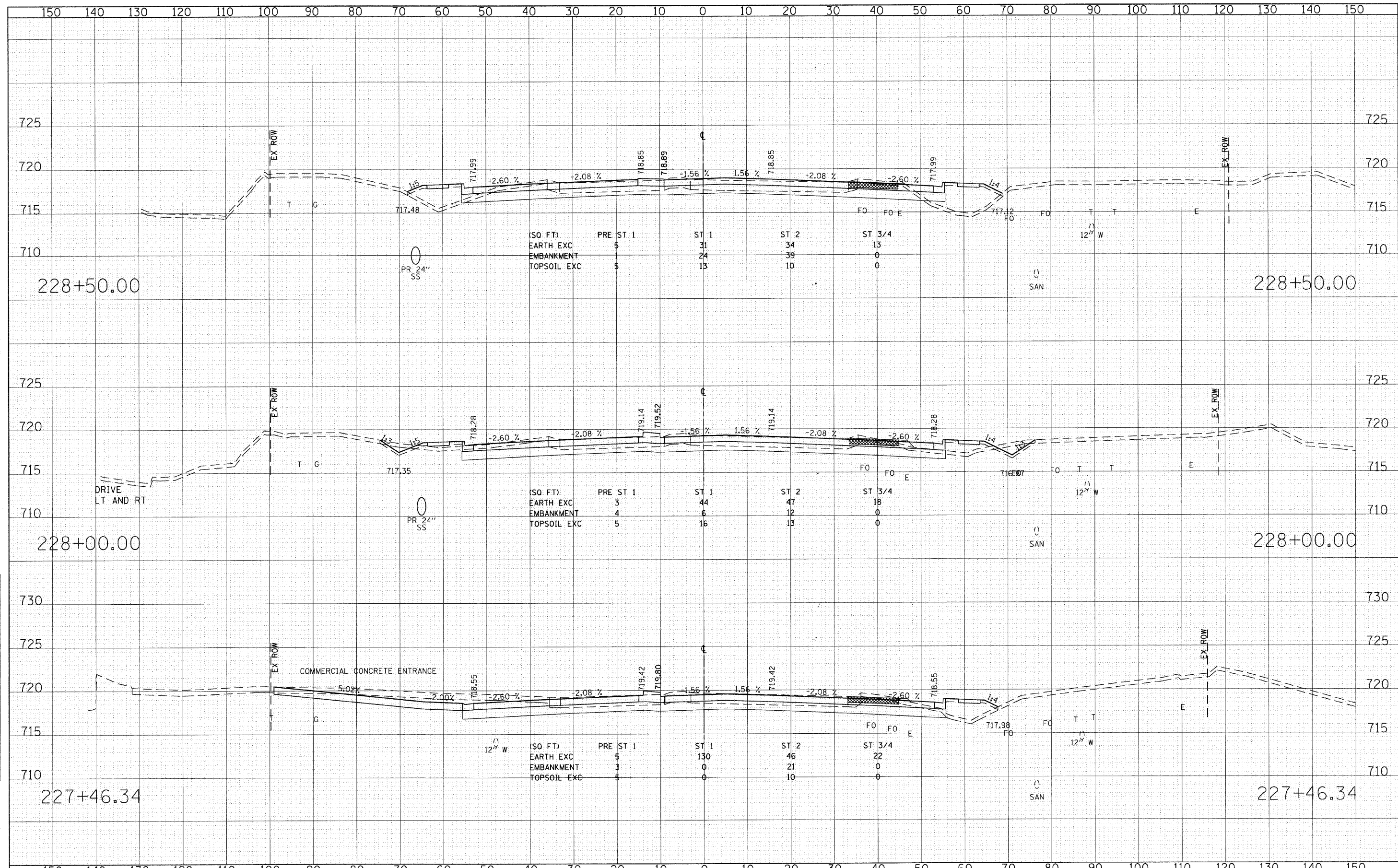
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 AREAS CHECKED _____



FILE NAME = g:\ch07\0261\road\sheet\16\012-SHT-XSSH1.dwg	USER NAME = BAN\jort	DESIGNED - JMG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS - 22nd STREET			F.A. RTE. 1453	SECTION 55WRS	COUNTY DuPAGE	TOTAL SHEETS 362	SHEET NO. 294
PLOT SCALE = 10.0000' / IN.	CHECKED - JRH	REVISOR -	REVISOR -		SCALE: HORIZ: 1"=100'	SHEET NO. 294 OF 362 SHEETS	STA. 226+00.00 TO STA. 227+00.00	CONTRACT NO. 60D12				
PLOT DATE = 8/5/2009	DATE - 07/24/2009	REVISOR -	REVISOR -		FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT							

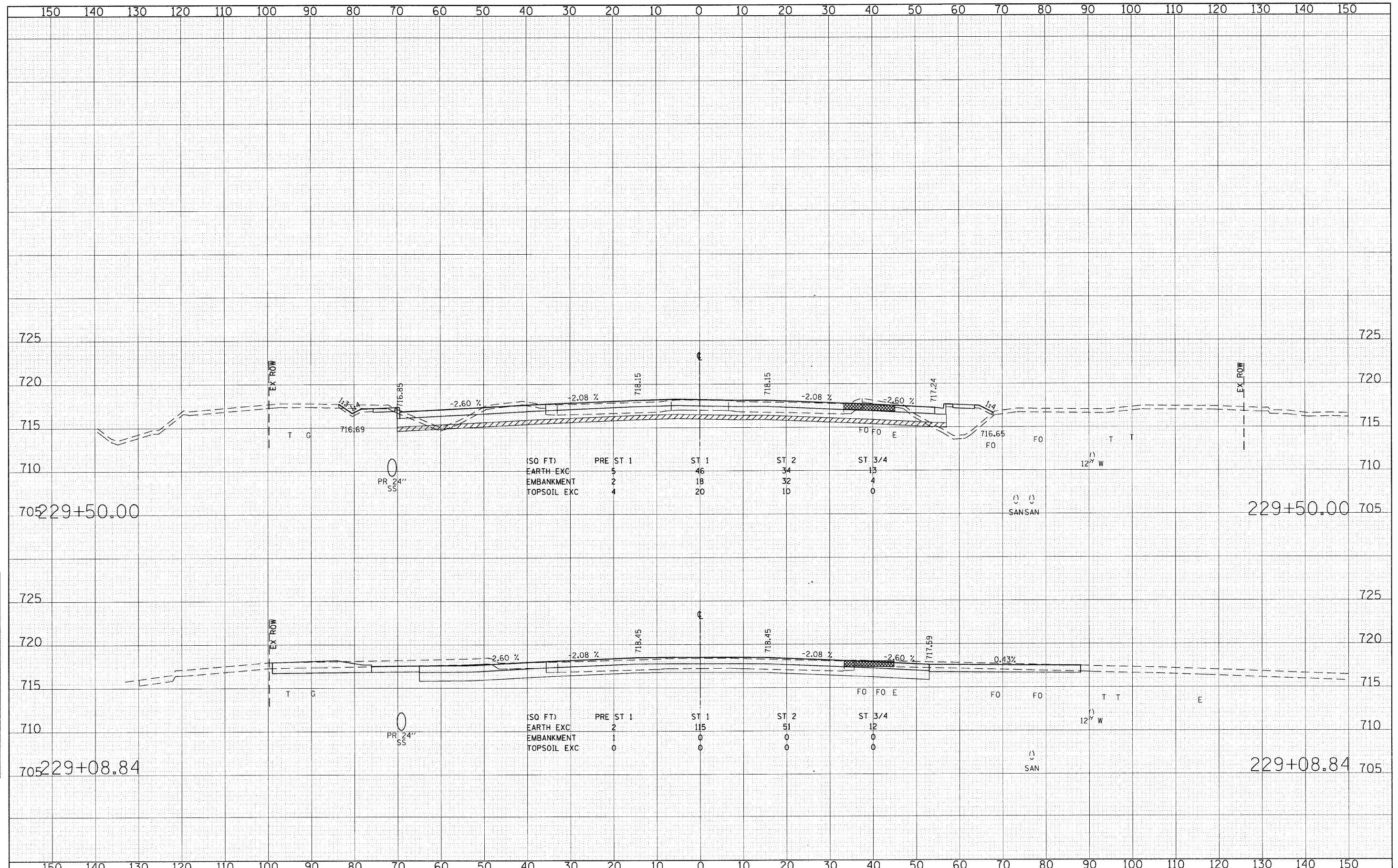
DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED

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



DATE	
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FINAL SURVEY	SURVEYED
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NOTE BOOK	PLOTTED
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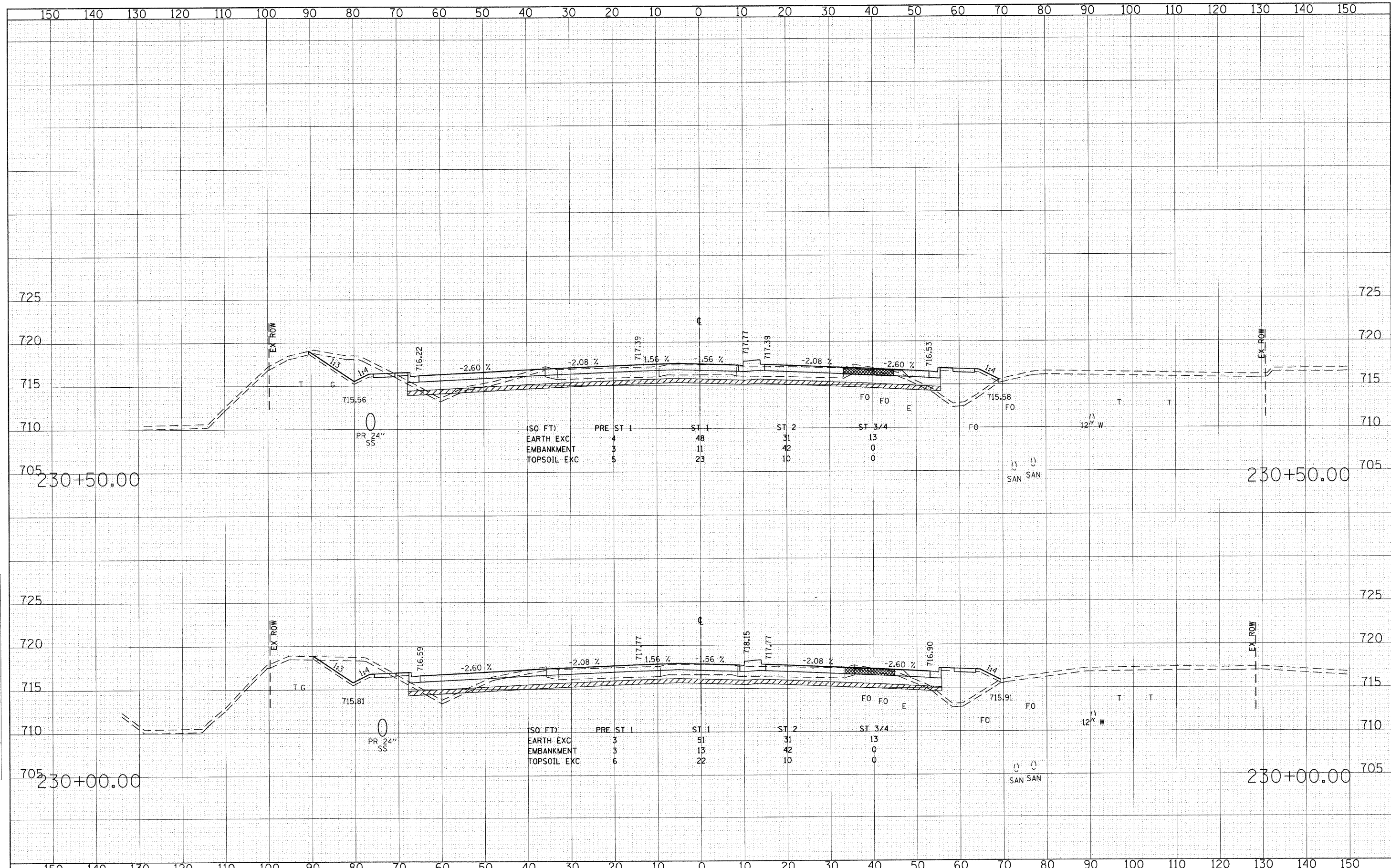


(SQ FT)	PRE ST 1	ST 1	ST 2	ST 3/4
EARTH EXC	5	46	34	13
EMBANKMENT	2	18	32	4
TOPSOIL EXC	4	20	10	0

(SQ FT)	PRE ST 1	ST 1	ST 2	ST 3/4
EARTH EXC	2	115	51	12
EMBANKMENT	1	0	0	0
TOPSOIL EXC	0	0	0	0

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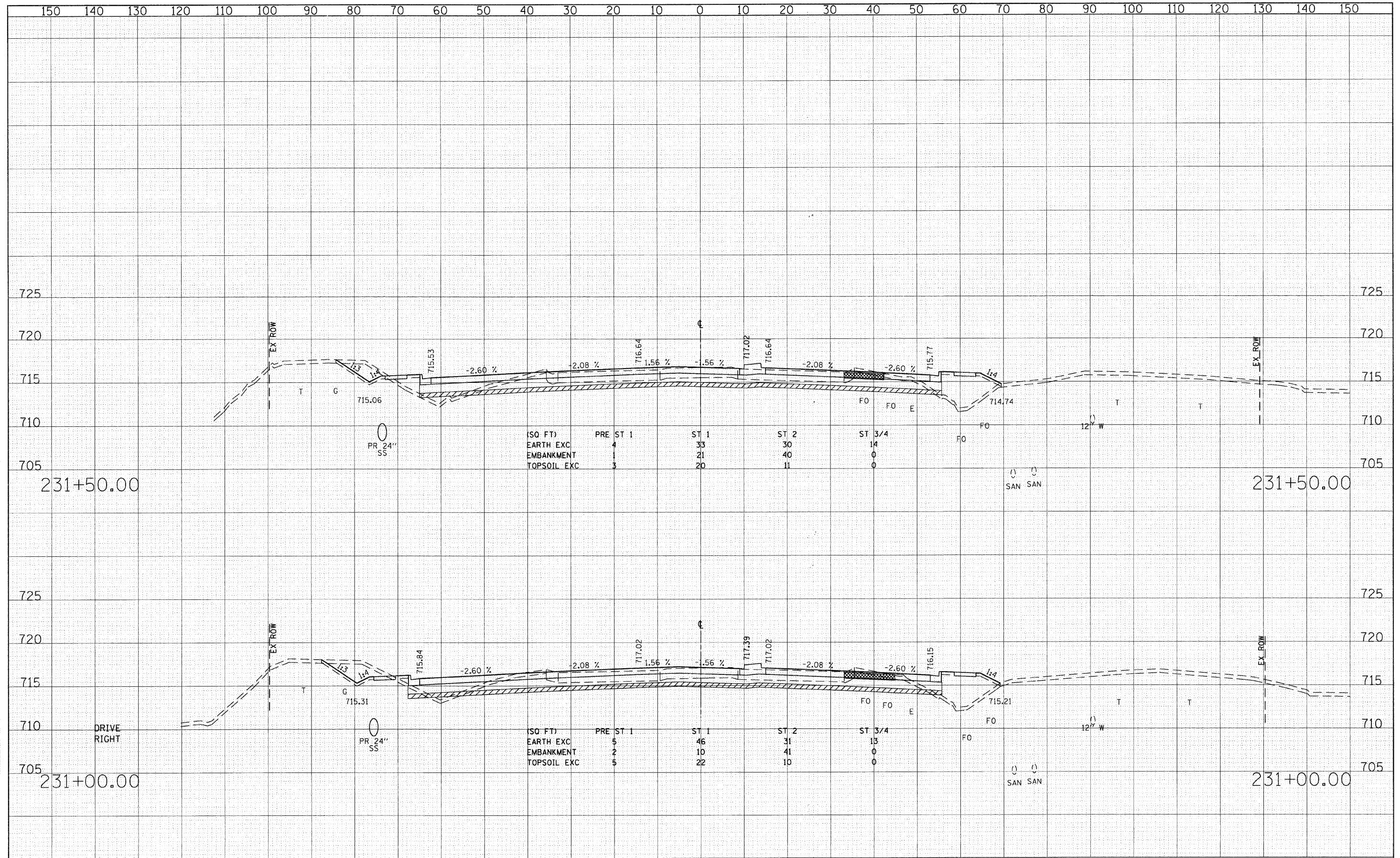


(SQ FT)	PRE	ST 1	ST 1	ST 2	ST 3/4
EARTH EXC	4	48	31	13	0
EMBANKMENT	3	11	42	0	0
TOPSOIL EXC	5	23	10	0	0

(SQ FT)	PRE	ST 1	ST 1	ST 2	ST 3/4
EARTH EXC	3	51	13	13	0
EMBANKMENT	3	13	42	0	0
TOPSOIL EXC	6	22	10	0	0

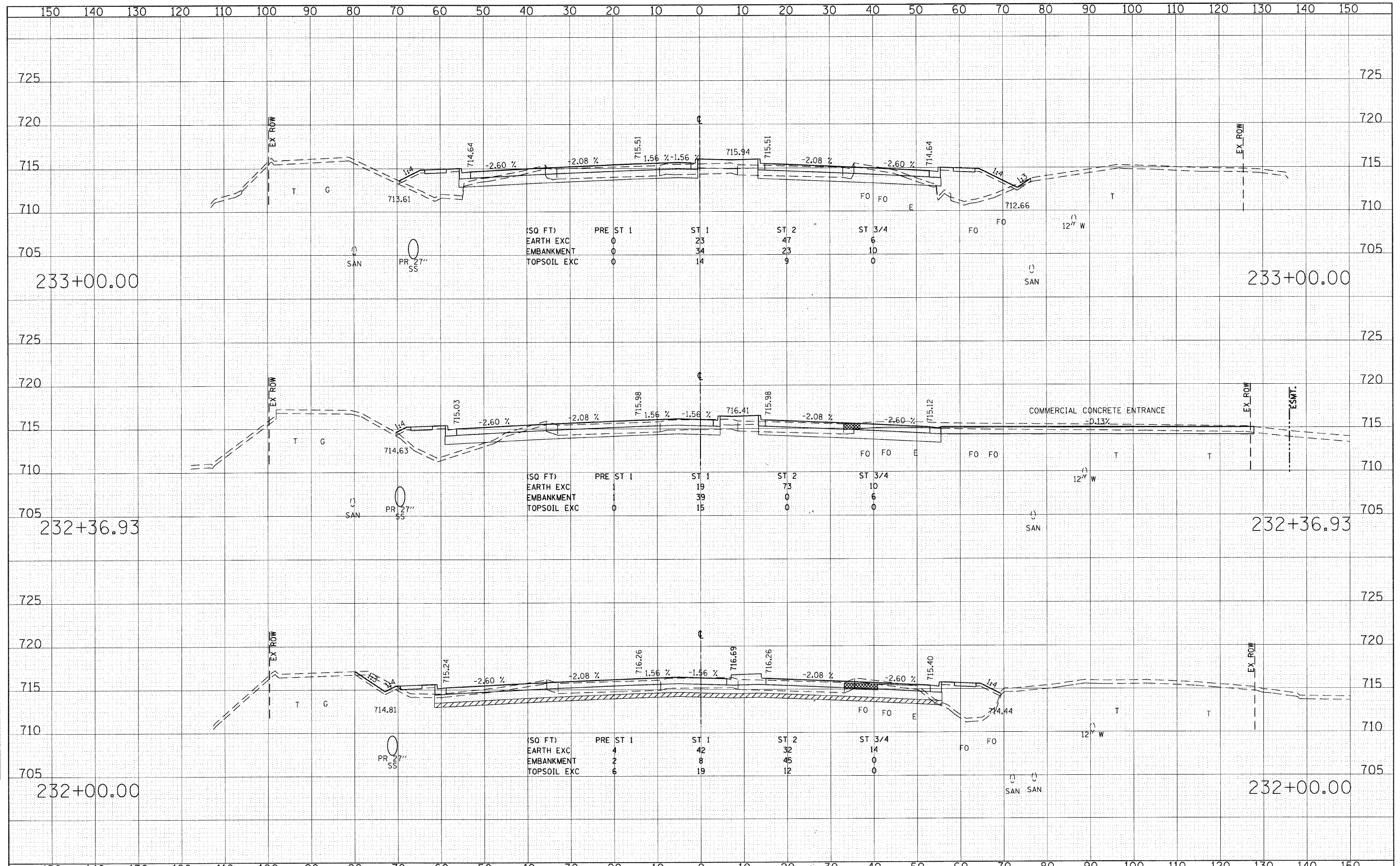
FINAL SURVEY SURVEYED BY DATE
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 NOTE BOOK NO. DATE
 AREAS CHECKED NO.

ORIGINAL SURVEY SURVEYED BY DATE
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