















F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	*	KENDALL	931	601
STA. N/A		TO STA. N/A		
FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT				
* (5CS, 13C, 10B, 1091R)				

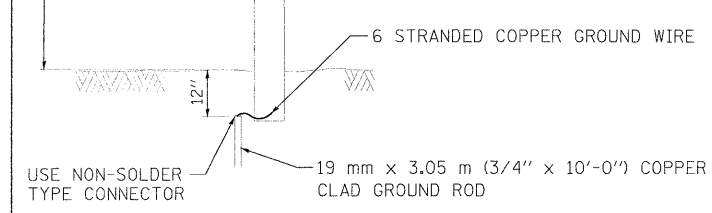
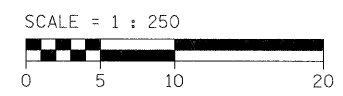
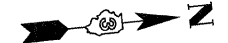
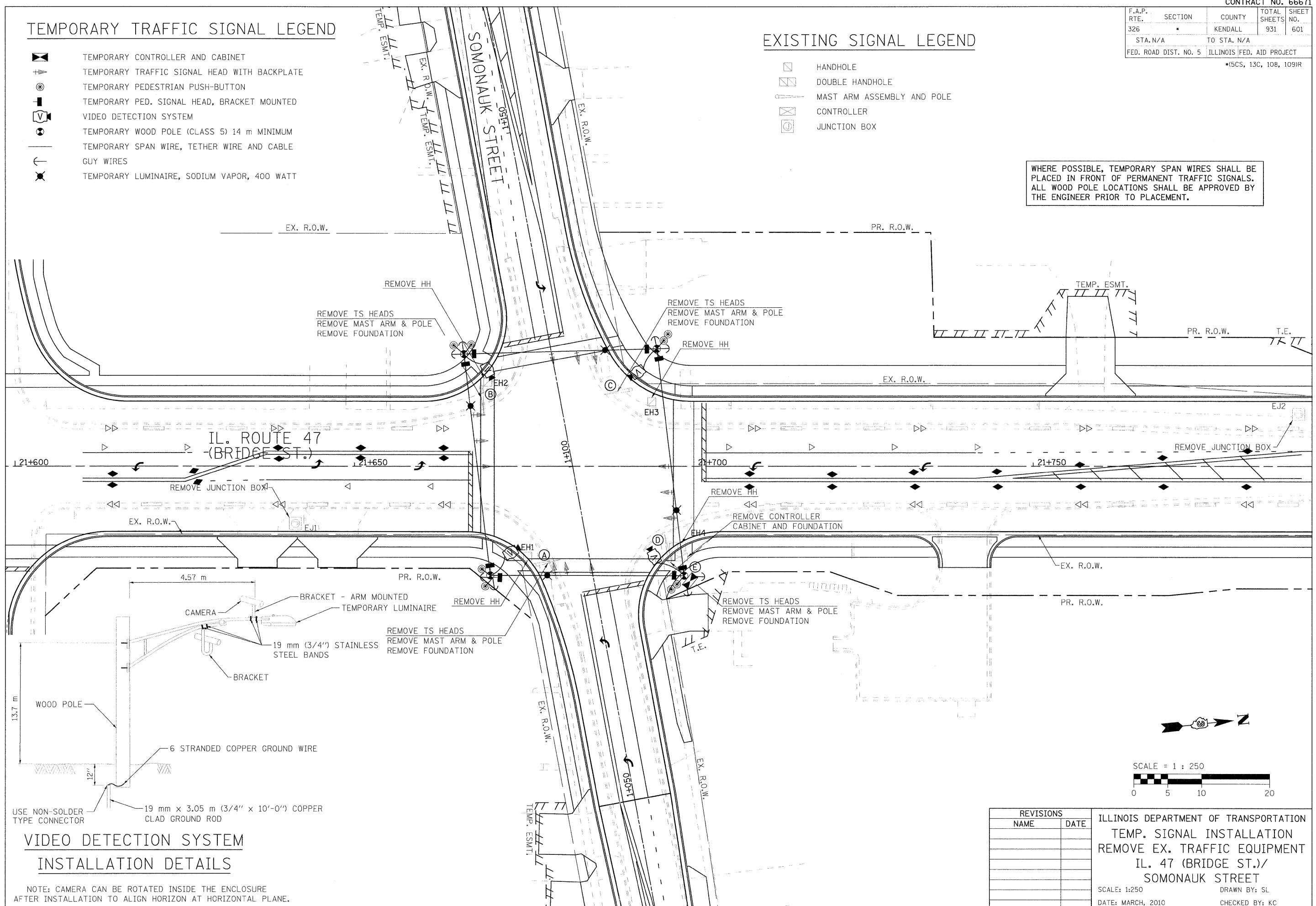
TEMPORARY TRAFFIC SIGNAL LEGEND

-  TEMPORARY CONTROLLER AND CABINET
-  TEMPORARY TRAFFIC SIGNAL HEAD WITH BACKPLATE
-  TEMPORARY PEDESTRIAN PUSH-BUTTON
-  TEMPORARY PED. SIGNAL HEAD, BRACKET MOUNTED
-  VIDEO DETECTION SYSTEM
-  TEMPORARY WOOD POLE (CLASS 5) 14 m MINIMUM
-  TEMPORARY SPAN WIRE, TETHER WIRE AND CABLE
-  GUY WIRES
-  TEMPORARY LUMINAIRE, SODIUM VAPOR, 400 WATT

EXISTING SIGNAL LEGEND

-  HANDHOLE
-  DOUBLE HANDHOLE
-  MAST ARM ASSEMBLY AND POLE
-  CONTROLLER
-  JUNCTION BOX

WHERE POSSIBLE, TEMPORARY SPAN WIRES SHALL BE PLACED IN FRONT OF PERMANENT TRAFFIC SIGNALS. ALL WOOD POLE LOCATIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO PLACEMENT.



VIDEO DETECTION SYSTEM INSTALLATION DETAILS

NOTE: CAMERA CAN BE ROTATED INSIDE THE ENCLOSURE AFTER INSTALLATION TO ALIGN HORIZON AT HORIZONTAL PLANE.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TEMP. SIGNAL INSTALLATION
 REMOVE EX. TRAFFIC EQUIPMENT
 IL. 47 (BRIDGE ST.)/
 SOMONAUK STREET

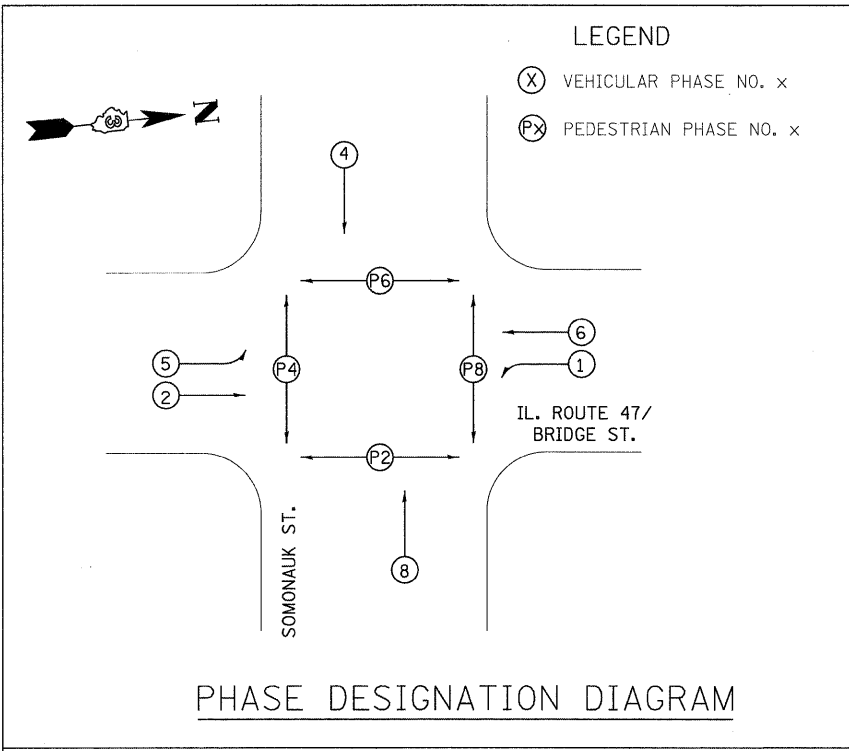
SCALE: 1:250
 DATE: MARCH, 2010

DRAWN BY: SL
 CHECKED BY: KC

PLOT DATE = 6/11/2011
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 USER = C:\ADMIN\JIN
 USER NAME = JUSENDESCI

TEMPORARY CABLE DIAGRAM LEGEND

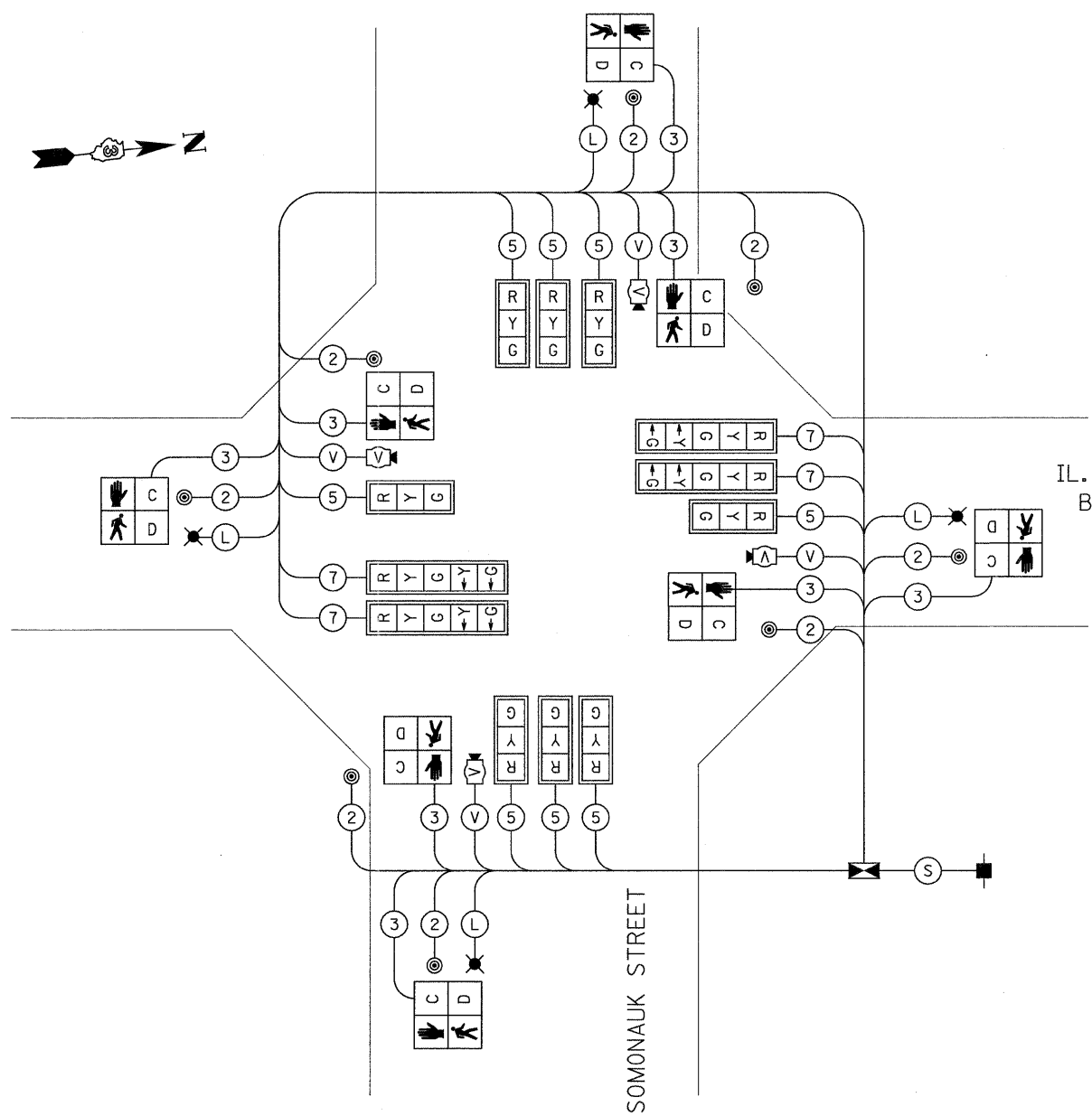
- TEMPORARY CONTROLLER
- TEMPORARY SERVICE INSTALLATION
- TEMPORARY TRAFFIC SIGNAL HEAD W/ BACKPLATE
- DENOTES NUMBER OF CONDUCTORS
- VIDEO DETECTION SYSTEM
- TEMPORARY PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN DISPLAY
- TEMPORARY PEDESTRIAN PUSH BUTTON
- TEMPORARY LUMINAIRE, SODIUM VAPOR, 400 WATT



LEGEND

(X) VEHICULAR PHASE NO. x

(Px) PEDESTRIAN PHASE NO. x



- (V) VIDEO CAMERA CABLE**
6 PAIRS, TWISTED REQUIRED
3 PAIRS CONDUCTOR FOR POWER - 24V AC (AC+, AC-, GND)
1 PAIR DATA
1 PAIR COMPOSITE VIDEO
1 PAIR DETECTOR DATA
OVERALL SHIELD MINIMUM 16AWG (PAIRS) (TO BE INCLUDED IN THE BID PRICE FOR VEHICLE VIDEO DETECTION SYSTEM)
- (S) SERVICE CABLE**
ELECTRIC CABLE IN CONDUIT, SERVICE, NO.6 2C
- (L) LIGHTING CABLE**
600V (XLP-TYPE USE) 3 - 1/C NO.10

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT 1 EACH

THE FOLLOWING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED AND REMAIN THE PROPERTY OF THE CONTRACTOR, IF IT IS NOT BEING USED FOR THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.

- 4 EACH MAST ARM ASSEMBLY AND POLE
- 9 EACH SIGNAL HEAD
- ALL PEDESTRIAN SIGNAL HEADS AND NON-CONFORMING PUSH-BUTTONS

ALL REMAINING REMOVAL ITEMS EXCEPT AS SPECIFIED BELOW SHALL BE REMOVED AND DELIVERED BY THE CONTRACTOR TO THE CITY OF YORKVILLE, 610 TOWER LANE, YORKVILLE, IL.

THE FOLLOWING ITEMS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR OFF THE RIGHT-OF-WAY. THE SALVAGE VALUE OF THIS EQUIPMENT SHALL BE REFLECTED IN THE UNIT BID PRICE OF REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT.

- 1 EACH SERVICE INSTALLATION
- ALL WIRES

SCHEDULE OF REMOVAL ITEMS

ITEM	LOCATION	UNIT	QUANTITIES
REMOVE EXISTING CONCRETE FOUNDATION	A, B, C, D, E	EACH	5
REMOVE EXISTING HANDHOLE	EH1, EH2, EH3, EH4	EACH	4
REMOVE EXISTING JUNCTION BOX	EJ1, EJ2	EACH	2

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION PROPOSED TEMPORARY CABLE DIAGRAM IL. 47 (BRIDGE ST.)/ SOMONAUK STREET
NAME	DATE	

SCALE: NONE DRAWN BY: SL
DATE: MARCH, 2010 CHECKED BY: KC

PLOT DATE = 6/11/2011
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 USER NAME = JOSEPHDESCH

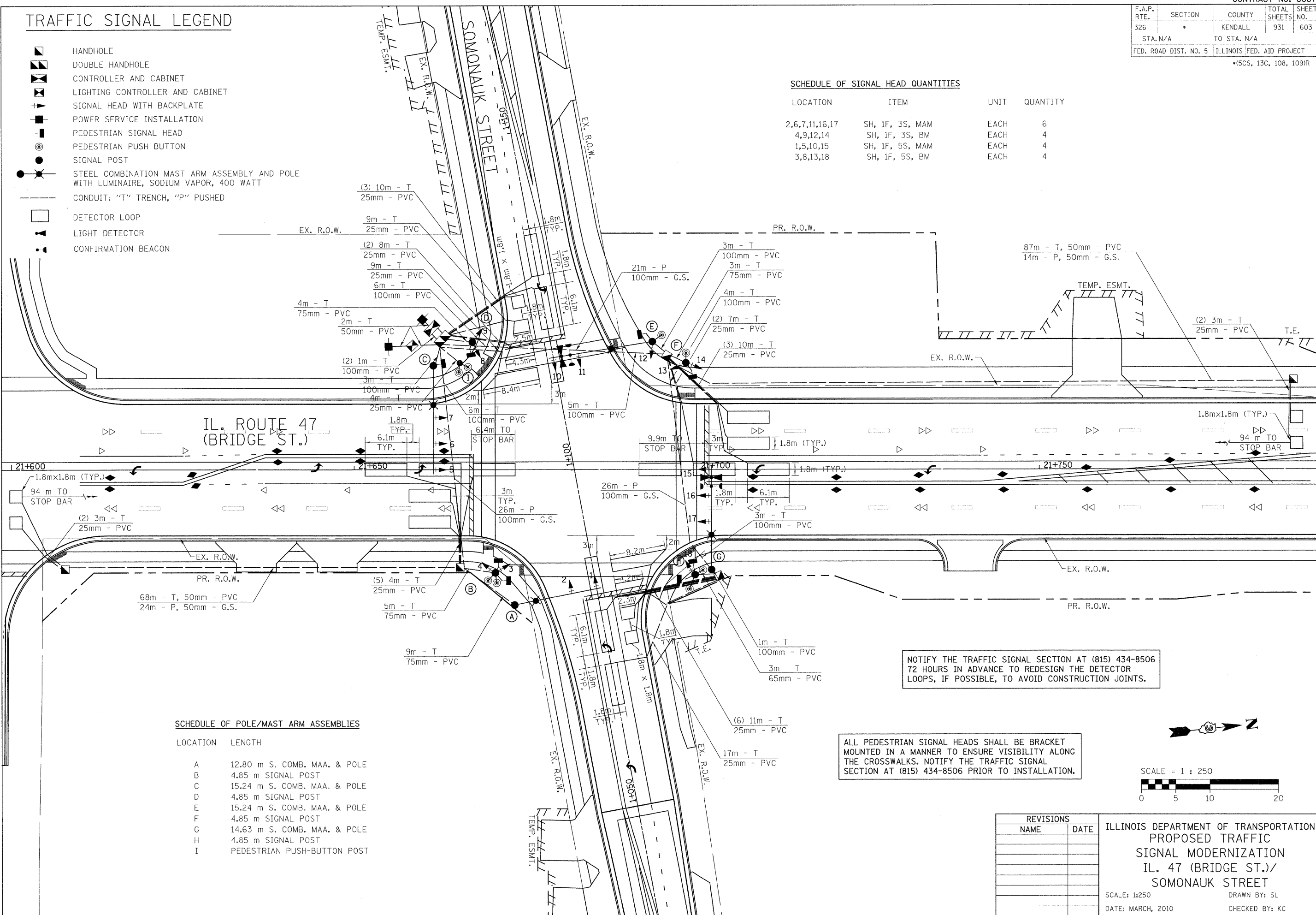
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	*	KENDALL	931	603
STA. N/A		TO STA. N/A		
FED. ROAD DIST. NO. 5		ILLINOIS FED. AID PROJECT		
*15CS, 13C, 108, 1091R				

TRAFFIC SIGNAL LEGEND

- HANDHOLE
- DOUBLE HANDHOLE
- CONTROLLER AND CABINET
- LIGHTING CONTROLLER AND CABINET
- SIGNAL HEAD WITH BACKPLATE
- POWER SERVICE INSTALLATION
- PEDESTRIAN SIGNAL HEAD
- PEDESTRIAN PUSH BUTTON
- SIGNAL POST
- STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE, SODIUM VAPOR, 400 WATT
- CONDUIT: "T" TRENCH, "P" PUSHED
- DETECTOR LOOP
- LIGHT DETECTOR
- CONFIRMATION BEACON

SCHEDULE OF SIGNAL HEAD QUANTITIES

LOCATION	ITEM	UNIT	QUANTITY
2,6,7,11,16,17	SH, 1F, 3S, MAM	EACH	6
4,9,12,14	SH, 1F, 3S, BM	EACH	4
1,5,10,15	SH, 1F, 5S, MAM	EACH	4
3,8,13,18	SH, 1F, 5S, BM	EACH	4

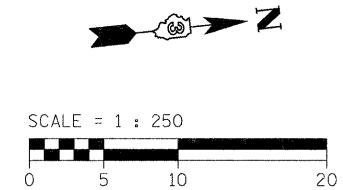


SCHEDULE OF POLE/MAST ARM ASSEMBLIES

LOCATION	LENGTH
A	12.80 m S. COMB. MAA. & POLE
B	4.85 m SIGNAL POST
C	15.24 m S. COMB. MAA. & POLE
D	4.85 m SIGNAL POST
E	15.24 m S. COMB. MAA. & POLE
F	4.85 m SIGNAL POST
G	14.63 m S. COMB. MAA. & POLE
H	4.85 m SIGNAL POST
I	PEDESTRIAN PUSH-BUTTON POST

NOTIFY THE TRAFFIC SIGNAL SECTION AT (815) 434-8506 72 HOURS IN ADVANCE TO REDESIGN THE DETECTOR LOOPS, IF POSSIBLE, TO AVOID CONSTRUCTION JOINTS.

ALL PEDESTRIAN SIGNAL HEADS SHALL BE BRACKET MOUNTED IN A MANNER TO ENSURE VISIBILITY ALONG THE CROSSWALKS. NOTIFY THE TRAFFIC SIGNAL SECTION AT (815) 434-8506 PRIOR TO INSTALLATION.

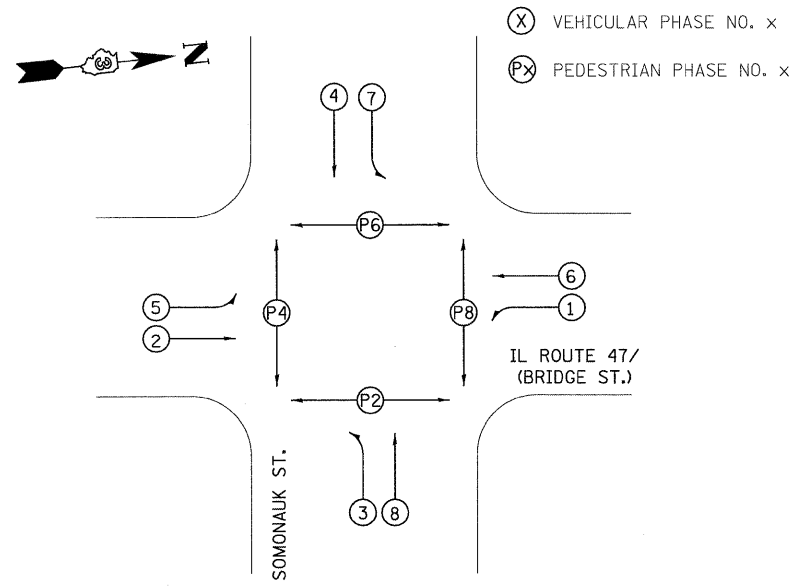


REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 PROPOSED TRAFFIC
 SIGNAL MODERNIZATION
 IL. 47 (BRIDGE ST.)/
 SOMONAUK STREET
 SCALE: 1:250 DRAWN BY: SL
 DATE: MARCH, 2010 CHECKED BY: KC

PLOT DATE = 8/11/2011
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 PLOT SCALE = 6:3500 m / IN.
 USER NAME = _USEDESOR.

LEGEND

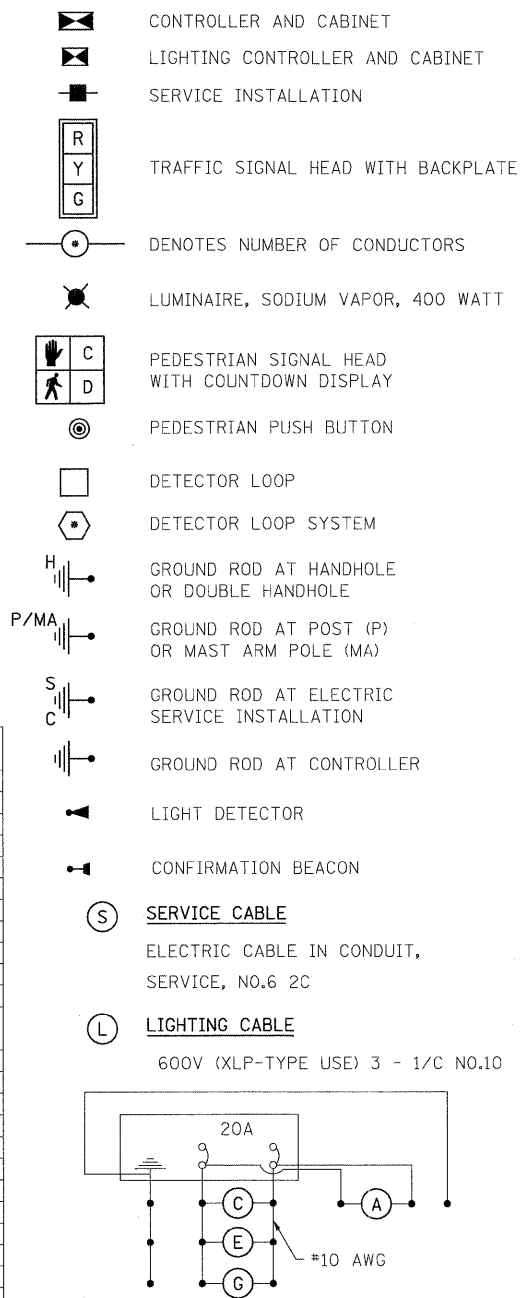


PHASE DESIGNATION DIAGRAM

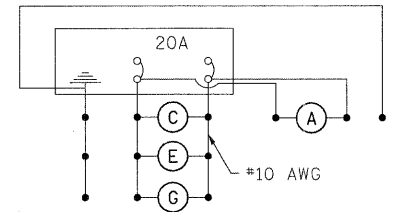
SCHEDULE OF QUANTITIES

DESCRIPTION	UNIT	QUANTITY
SERVICE INSTALLATION - GROUND MOUNTED	EACH	2
HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	5
DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	1
LUMINAIRE, SODIUM VAPOR, HOR. MOUNT, 400 WATT	EACH	4
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	18
INDUCTIVE LOOP DETECTOR	EACH	12
LIGHT DETECTOR	EACH	4
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	8
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	4
REMOVE EXISTING CONCRETE FOUNDATION	EACH	5
SIGN PANEL - TYPE 1	SQ M	1.8
SIGN PANEL - TYPE 2	SQ M	5.4
CONDUIT IN TRENCH 25mm DIA., PVC	METER	227
CONDUIT IN TRENCH 50mm DIA., PVC	METER	159
CONDUIT IN TRENCH 65mm DIA., PVC	METER	3
CONDUIT IN TRENCH 75mm DIA., PVC	METER	21
CONDUIT IN TRENCH 100mm DIA., PVC	METER	33
CONDUIT PUSHED, 50mm DIA., GALVANIZED STEEL	METER	38
CONDUIT PUSHED, 100mm DIA., GALVANIZED STEEL	METER	73
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	METER	543
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	METER	821
TRENCH AND BACKFILL FOR ELECTRICAL WORK	METER	443
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	METER	376
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	METER	391
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	METER	520
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	METER	457
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14, 1-PAIR	METER	1745
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	METER	10
TRAFFIC SIGNAL POST, GALVANIZED STEEL 4.85 METER	EACH	4
PEDESTRIAN PUSH-BUTTON POST, GALVANIZED STEEL, TYPE I	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 12.80 METER	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 14.63 METER	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 15.24 METER	EACH	2
CONCRETE FOUNDATION, TYPE A	METER	5.0
CONCRETE FOUNDATION, TYPE C (SPECIAL)	METER	1.1
CONCRETE FOUNDATION, TYPE E 900mm DIAMETER	METER	17.2
DETECTOR LOOP, TYPE 1	METER	517
ELECTRIC CABLE IN CONDUIT NO. 20, 3/C, TWISTED, SHIELDED	METER	640
REMOVE EXISTING JUNCTION BOX	EACH	2
LIGHTING CONTROLLER, SPECIAL	EACH	1

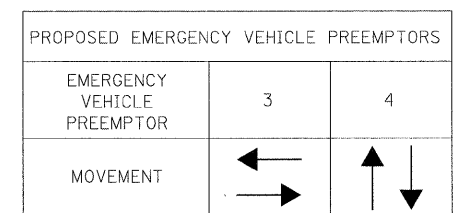
PROPOSED CABLE DIAGRAM LEGEND



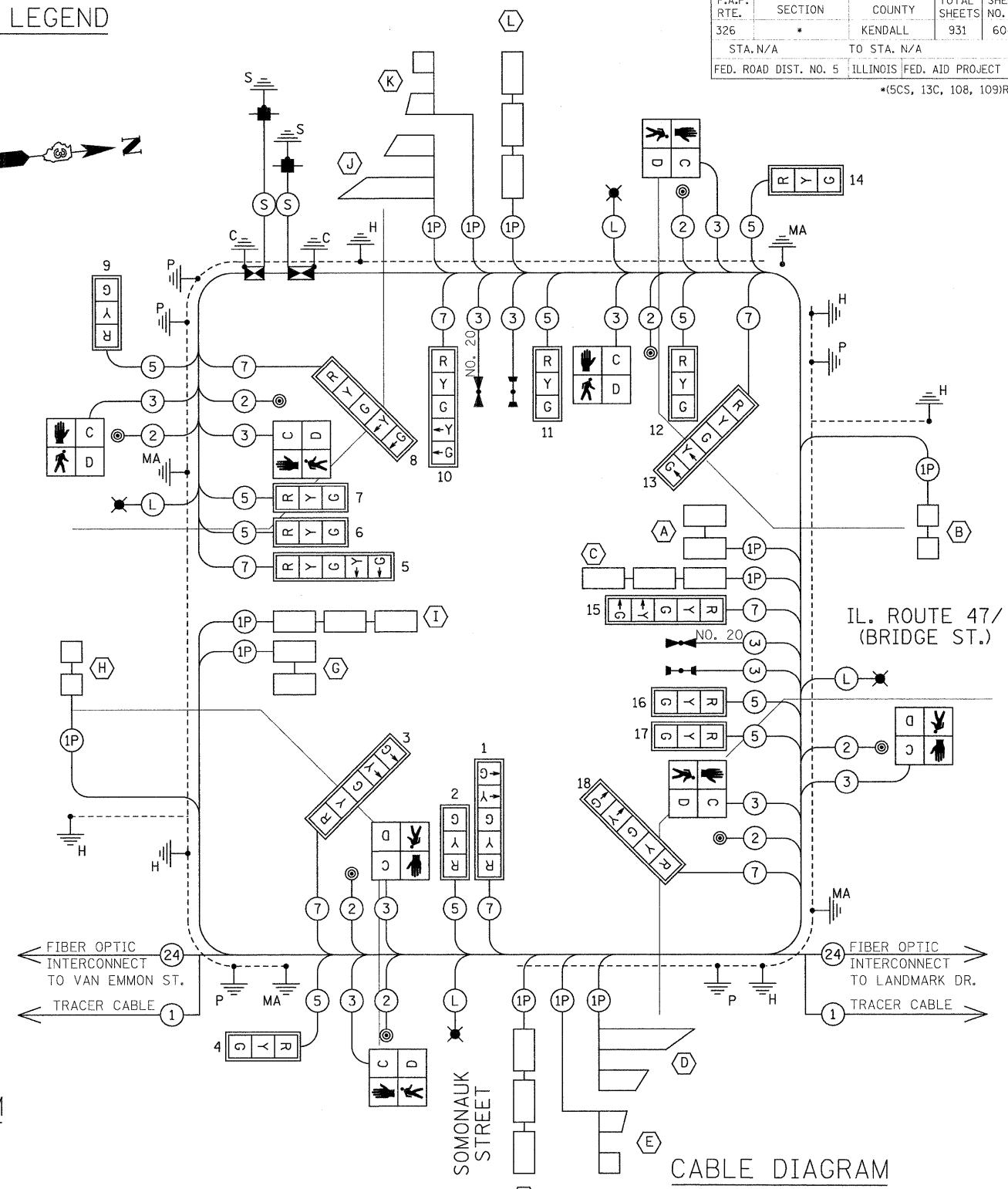
LIGHTING CIRCUIT DIAGRAM



AGENCY RESPONSIBLE FOR ENERGY CHARGES:
 CITY OF YORKVILLE
 CONTRACTOR PAYS ALL ENERGY CHARGES
 UNTIL PROJECT IS ACCEPTED



EMERGENCY VEHICLE PREEMPTION SEQUENCE



CABLE DIAGRAM

CONTROLLER SPECIFIED: ECONOLITE ASC-3/2100 TS-2 TYPE 2
 PEDESTRIAN PUSH-BUTTONS: 4 EVR ROUND MODEL
 LUMINAIRES: 400 WATT HPS STERNBERG 1914A/CHS LUMINAIRES

NOTIFY THE TRAFFIC SIGNAL SECTION AT (815) 434-8506
 72 HOURS IN ADVANCE TO REDESIGN THE DETECTOR
 LOOPS, IF POSSIBLE, TO AVOID CONSTRUCTION JOINTS.

REVISIONS	
NAME	DATE

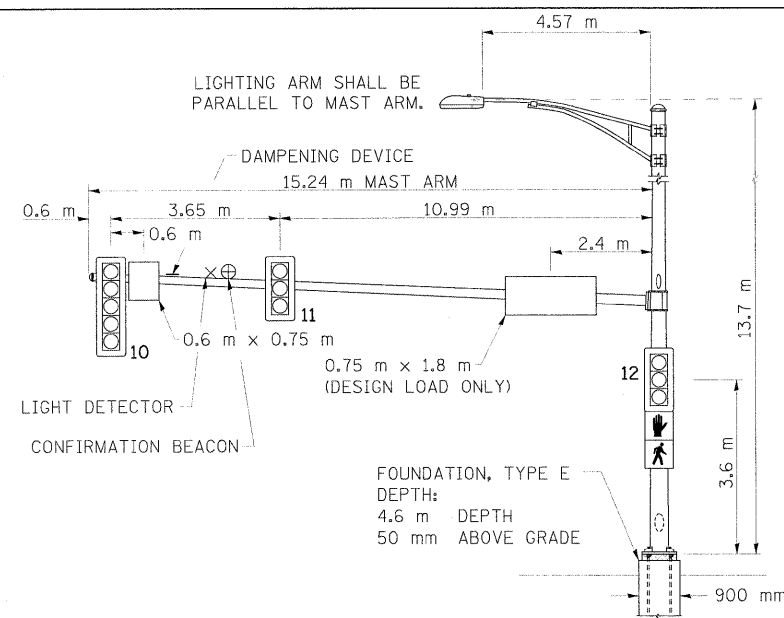
ILLINOIS DEPARTMENT OF TRANSPORTATION
 PHASE DIAGRAM, CABLE DIAGRAM
 SCHEDULE OF QUANTITIES
 IL. 47 (BRIDGE ST.)/
 SOMONAUK STREET

SCALE: NONE DRAWN BY: SL
 DATE: MARCH, 2010 CHECKED BY: KC

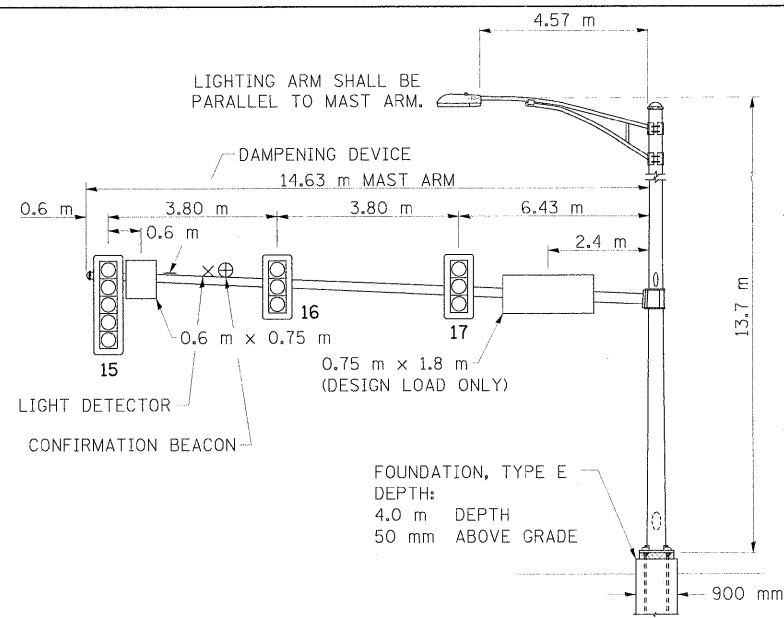
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 USER NAME = JUSERDESCR.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	*	KENDALL	931	605
STA. N/A		TO STA. N/A		
FED. ROAD DIST. NO. 5		ILLINOIS FED. AID PROJECT		

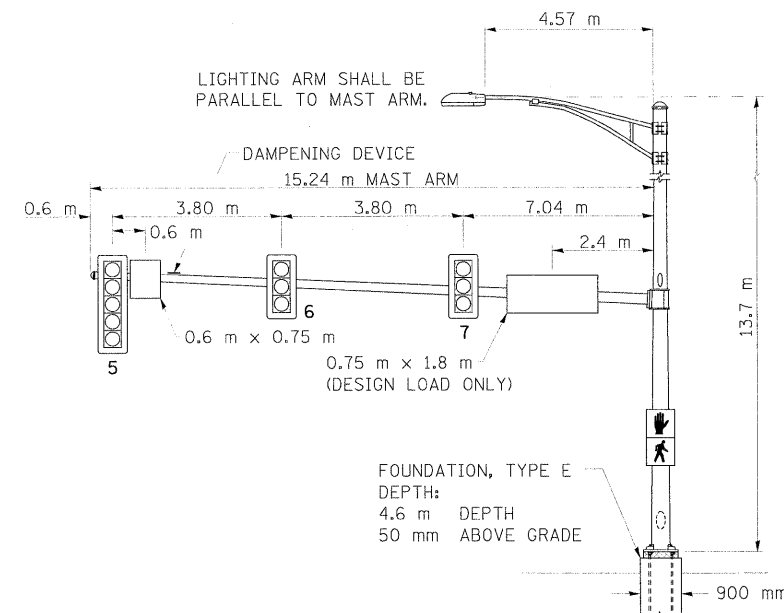
(5CS, 13C, 108, 109R)



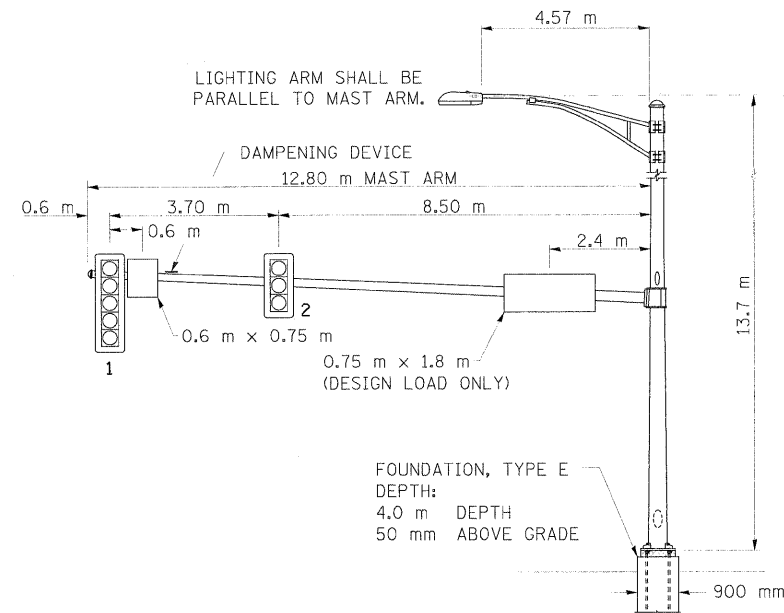
MAST ARM NORTHWEST QUADRANT (E)



MAST ARM NORTHEAST QUADRANT (G)



MAST ARM SOUTHWEST QUADRANT (C)



MAST ARM SOUTHEAST QUADRANT (A)

ELECTRICAL LOAD CHART

IL ROUTE 47

INDICATION	NUMBER	WATTAGE EACH	BURN TIME (%)
RED	10	12	60
YELLOW	10	32	5
GREEN	10	12	35
YELLOW ARROW	4	12	5
GREEN ARROW	4	11	10
GREEN ARROW	4	7	5
GREEN ARROW	4	7	95

SOMONAUK STREET

RED	8	12	70
YELLOW	8	32	5
GREEN	8	12	25
YELLOW ARROW	4	12	5
GREEN ARROW	4	11	10
GREEN ARROW	4	7	5
GREEN ARROW	4	7	95

TRAFFIC SIGNAL CABINET

ITEM	NUMBER	WATTAGE EACH	BURN TIME (%)
CONTROLLER	1	6	100
INDUCTIVE LOOP DETECTOR UNINTERRUPTABLE POWER SUPPLY	12	1.5	100
LIGHT DETECTOR AMPLIFIER	1	1.5	100

HIGHWAY LIGHTING

ITEM	NUMBER	WATTAGE EACH	BURN TIME (%)
CONTROLLER	1	6	100
LUMINAIRE	4	400	45

DETECTOR LOOP INDUCTANCE CHART

DETECTOR LOOP SYSTEM	TURN PER LOOP	INDUCTANCE READING (MICROHENRIES)	FREQUENCY (HERTZ)	J PIN STATUS
A	4	551	25,983	OFF
B	6	603	24,855	ON
C	4	809	21,443	ON
D	4	553	25,964	ON
E	5	428	29,516	ON
F	4	836	21,097	ON
G	4	547	26,078	OFF
H	6	596	25,000	ON
I	4	807	21,470	ON
J	4	516	26,856	ON
K	5	387	31,017	ON
L	4	788	21,727	ON

GRANULAR SOILS ARE EXPECTED TO BE ENCOUNTERED AT THIS INTERSECTION.

NOTIFY THE TRAFFIC SIGNAL SECTION AT (815) 434-8506 72 HOURS IN ADVANCE TO REDESIGN THE DETECTOR LOOPS, IF POSSIBLE, TO AVOID CONSTRUCTION JOINTS.

NOTES:

- WORD "GRADE" IS TO BE INTERPRETED AS TOP OF CURB, TOP OF FOUNDATION SHALL NOT BE EXPOSED MORE THAN 100 mm ABOVE THE SURROUNDING GROUND.
- ALL SIGNAL HEADS SHALL HAVE BACKPLATES.
- FOUNDATION SHOULD BE 50mm ABOVE GROUND OR 0.35m ABOVE CENTERLINE OF ROADWAY, WHICHEVER IS HIGHER.

PEDESTRIAN CROSSING SIGN DETAIL

COUNT-DOWN PEDESTRIAN SIGN R10-3e TO BE USED.

8 REQUIRED.

DIMENSIONS: 230mm x 380mm (TYP.)
LEGEND AND BORDER: NON-REFLECTORIZED BLACK
BACKGROUND: RETROREFLECTIVE WHITE
NUMBERS AND SYMBOLS: RETROREFLECTIVE ORANGE

ONE SIGN SHALL BE PROVIDED FOR EACH PUSH-BUTTON. ORIENTATION OF DIRECTIONAL ARROWS TO BE DETERMINED BY PUSH-BUTTON LOCATION.

ALL MOUNTING HARDWARE SHALL BE STAINLESS STEEL CONSTRUCTION. ALL MOUNTING BOLTS SHALL BE HEX HEAD.

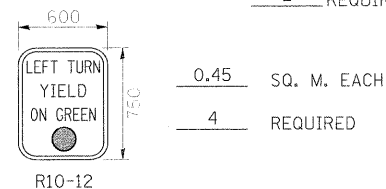
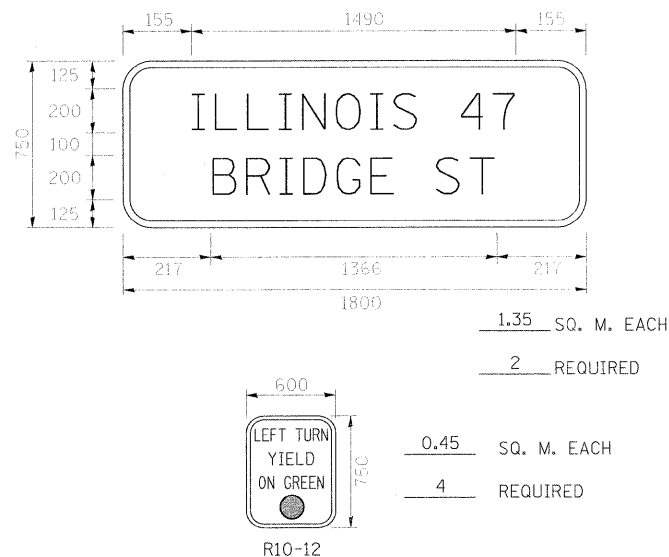
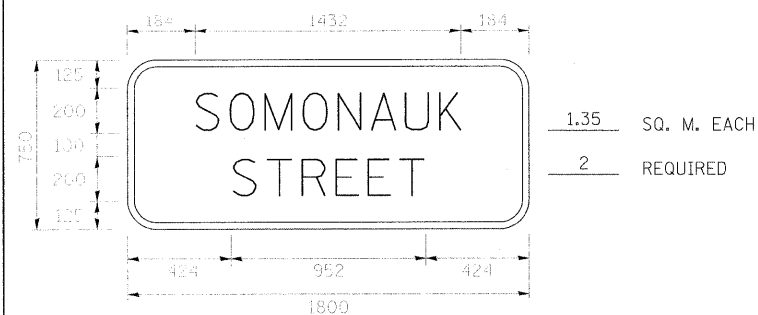
MATERIALS AND INSTALLATION OF THIS SIGN SHALL BE INCLUDED IN THE COST OF PEDESTRIAN PUSH-BUTTON.

STREET SIGN DETAIL

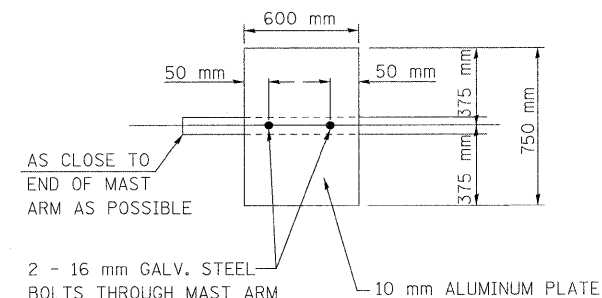
THESE STREET NAME SIGNS SHALL BE PLACED ON THE MAST ARMS PARALLEL TO THE RESPECTIVE ROUTE AS DIRECTED BY THE ENGINEER.

STREET NAME SIGNS:

- TYPE ZZ SHEETING REQUIRED
- WHITE/GREEN BACKGROUND
- STYLE (d)-15 mm BORDER
- 200 mm SERIES D LETTERS
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN



NOTE: DAMPENING DEVICE SHALL CONSIST OF A 600mm X 750mm TYPE 1, UNPAINTED ALUMINUM SIGN STOCK MOUNTED HORIZONTALLY ON TOP OF MAST ARM WITH THE 750mm LENGTH PERPENDICULAR TO THE ARM. COST OF THE DAMPENING DEVICE IS INCLUDED IN THE MAST ARM PAY ITEM.



DAMPENING PLATE DETAIL (TOP VIEW) INCIDENTAL TO MAST ARM QUANTITY

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
MAST ARM LOADING DIAGRAM
ELECTRICAL LOAD CHART
SIGN DETAILS
IL. 47 (BRIDGE ST.)/
SOMONAUK STREET

SCALE: NONE DRAWN BY: SL
DATE: MARCH, 2010 CHECKED BY: KC

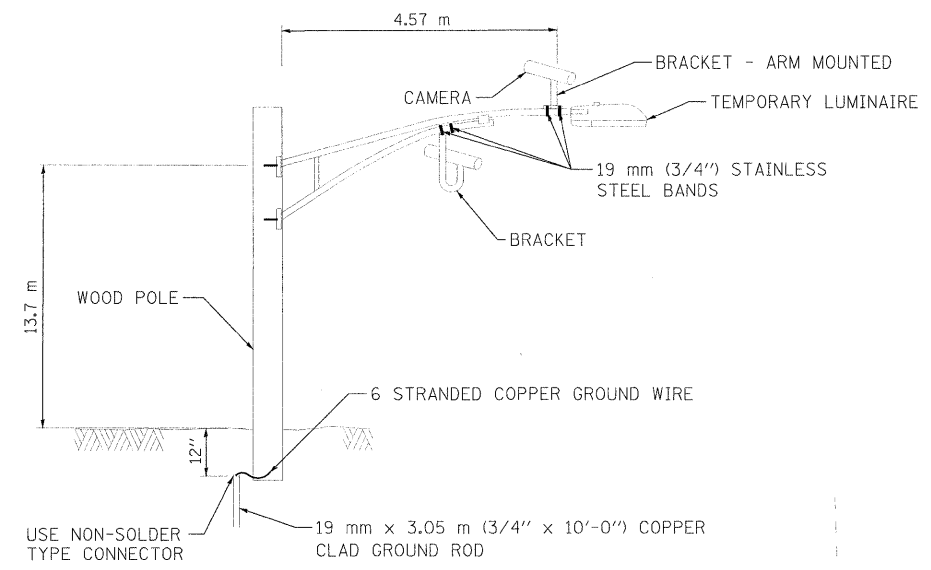
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326		KENDALL	931	606
STA. N/A		TO STA. N/A		
FED. ROAD DIST. NO. 5		ILLINOIS FED. AID PROJECT		
*5CS, 13C, 10B, 109IR				

EXISTING SIGNAL LEGEND

- HANDHOLE
- DOUBLE HANDHOLE
- MAST ARM ASSEMBLY AND POLE
- CONTROLLER
- JUNCTION BOX
- SIGNAL POST

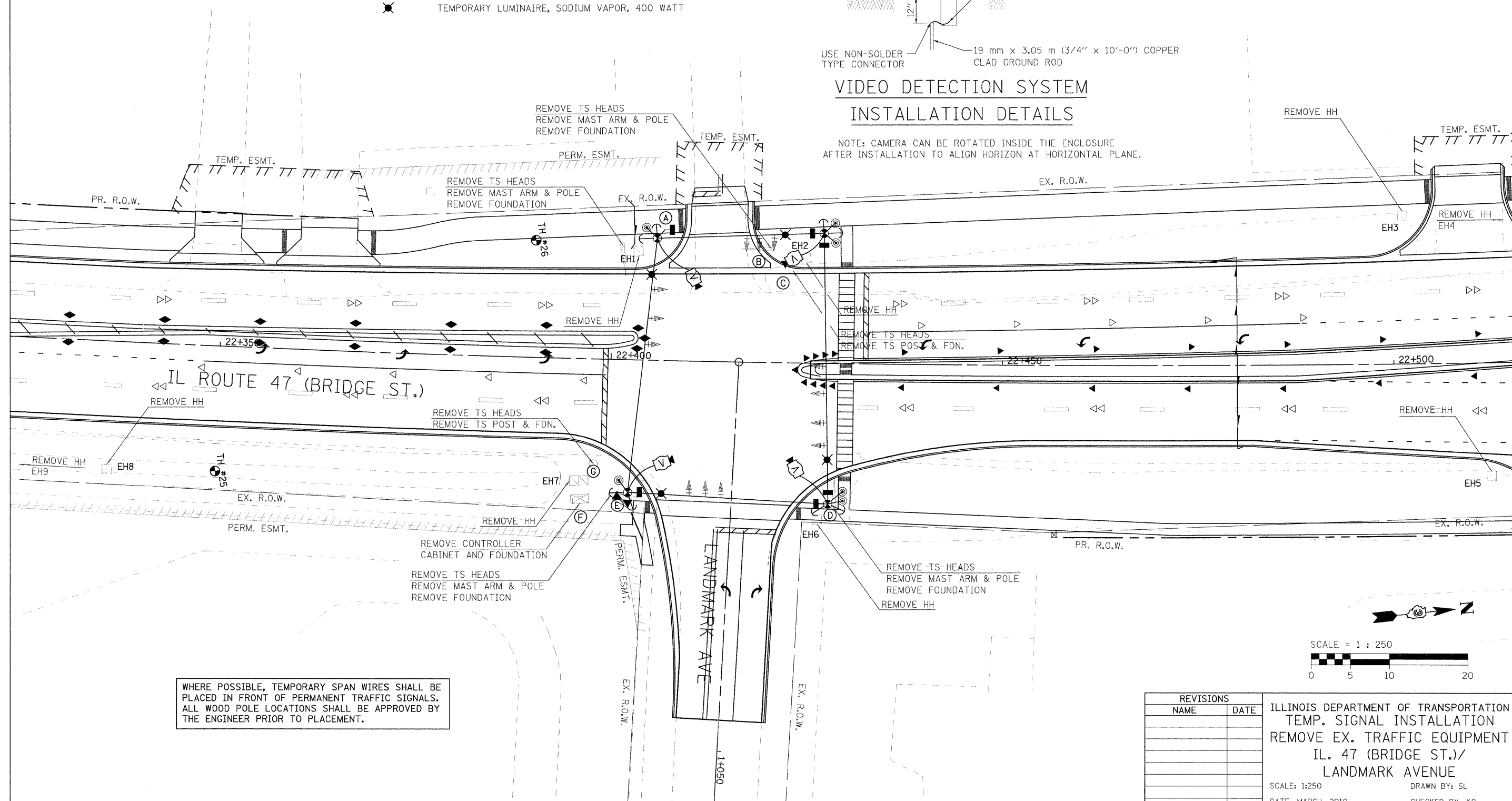
TEMPORARY TRAFFIC SIGNAL LEGEND

- TEMPORARY CONTROLLER AND CABINET
- TEMPORARY TRAFFIC SIGNAL HEAD WITH BACKPLATE
- TEMPORARY PEDESTRIAN PUSH-BUTTON
- TEMPORARY PED. SIGNAL HEAD, BRACKET MOUNTED
- VIDEO DETECTION SYSTEM
- TEMPORARY WOOD POLE (CLASS 5) 14 m MINIMUM
- TEMPORARY SPAN WIRE, TETHER WIRE AND CABLE
- GUY WIRES
- TEMPORARY LUMINAIRE, SODIUM VAPOR, 400 WATT

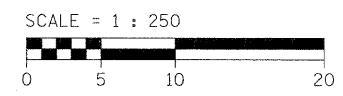


VIDEO DETECTION SYSTEM
INSTALLATION DETAILS

NOTE: CAMERA CAN BE ROTATED INSIDE THE ENCLOSURE AFTER INSTALLATION TO ALIGN HORIZON AT HORIZONTAL PLANE.



WHERE POSSIBLE, TEMPORARY SPAN WIRES SHALL BE PLACED IN FRONT OF PERMANENT TRAFFIC SIGNALS. ALL WOOD POLE LOCATIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO PLACEMENT.

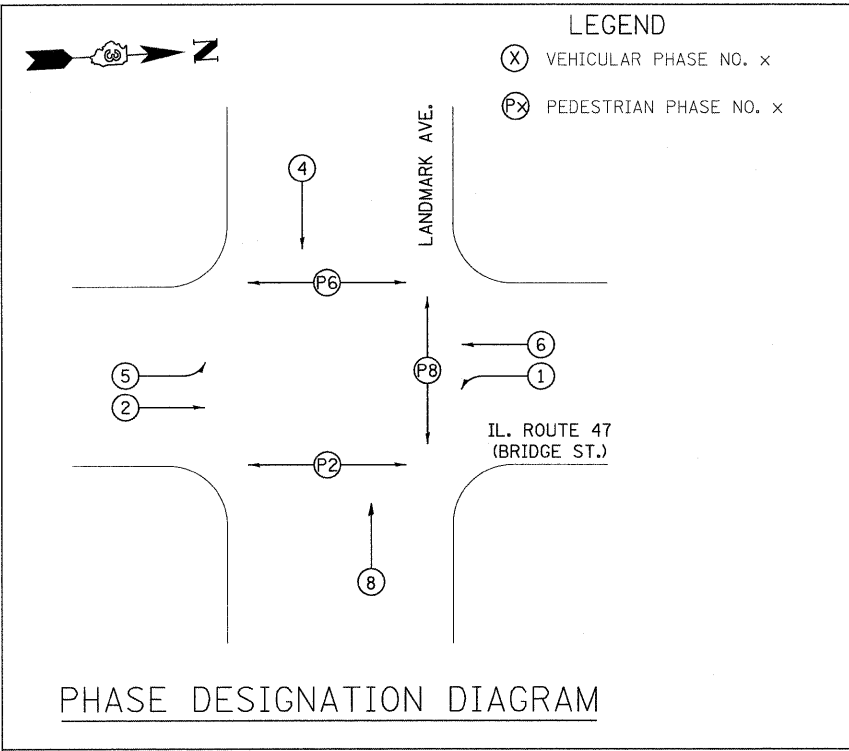


REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TEMP. SIGNAL INSTALLATION
REMOVE EX. TRAFFIC EQUIPMENT
IL. 47 (BRIDGE ST.)/
LANDMARK AVENUE
SCALE: 1:250
DATE: MARCH, 2010
DRAWN BY: SL
CHECKED BY: KC

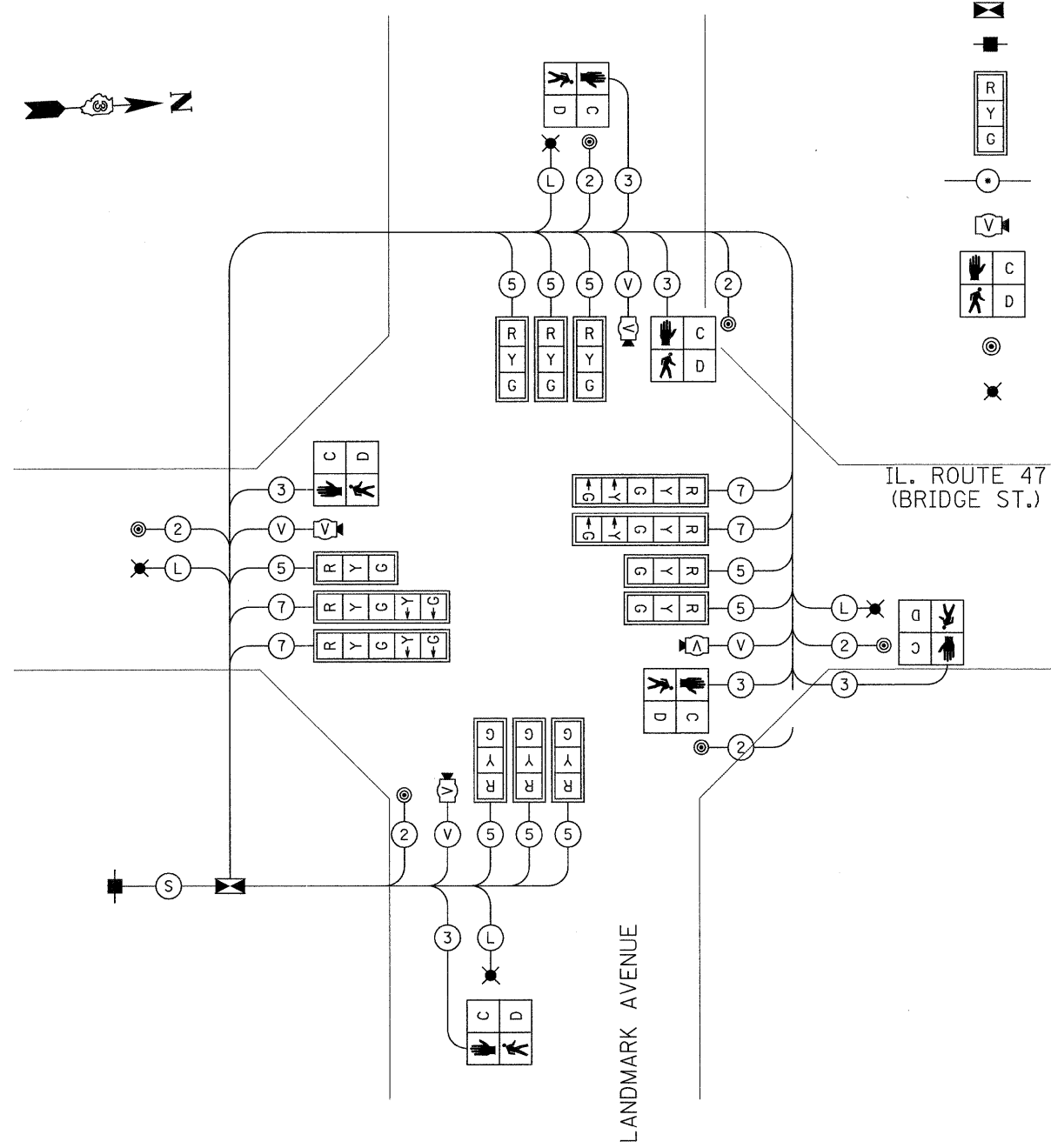
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USER NAME = JOSEPHESOR.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	*	KENDALL	931	607
STA. N/A		TO STA. N/A		
FED. ROAD DIST. NO. 5		ILLINOIS FED. AID PROJECT		



TEMPORARY CABLE DIAGRAM LEGEND

- CONTROLLER
- SERVICE INSTALLATION
- TEMPORARY TRAFFIC SIGNAL HEAD W/ BACKPLATE
- DENOTES NUMBER OF CONDUCTORS
- VIDEO DETECTION SYSTEM
- TEMPORARY PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN DISPLAY
- TEMPORARY PEDESTRIAN PUSH BUTTON
- TEMPORARY LUMINAIRE, SODIUM VAPOR, 400 WATT



- (V) **VIDEO CAMERA CABLE**
6 PAIRS, TWISTED REQUIRED
3 PAIRS CONDUCTOR FOR POWER - 24V AC (AC+, AC-, GND)
1 PAIR DATA
1 PAIR COMPOSITE VIDEO
1 PAIR DETECTOR DATA
OVERALL SHIELD
MINIMUM 16AWG (PAIRS)
(TO BE INCLUDED IN THE BID PRICE FOR VEHICLE VIDEO DETECTION SYSTEM)
- (S) **SERVICE CABLE**
ELECTRIC CABLE IN CONDUIT, SERVICE, NO.6 2C
- (L) **LIGHTING CABLE**
600V (XLP-TYPE USE) 3 - 1/C NO.10

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT 1 EACH

THE FOLLOWING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED AND REMAIN THE PROPERTY OF THE CONTRACTOR, IF IT IS NOT BEING USED FOR THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.

- 4 EACH MAST ARM ASSEMBLY AND POLE
- 2 EACH SIGNAL POST

ALL REMAINING REMOVAL ITEMS EXCEPT AS SPECIFIED BELOW SHALL BE REMOVED AND DELIVERED BY THE CONTRACTOR TO THE CITY OF YORKVILLE, 610 TOWER LANE, YORKVILLE, IL.

THE FOLLOWING ITEMS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR OFF THE RIGHT-OF-WAY. THE SALVAGE VALUE OF THIS EQUIPMENT SHALL BE REFLECTED IN THE UNIT BID PRICE OF REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT.

- 1 EACH SERVICE INSTALLATION
- ALL WIRES

SCHEDULE OF REMOVAL ITEMS















ITEM	LOCATION	UNIT	QUANTITIES
REMOVE EXISTING CONCRETE FOUNDATION	A, B, C, D E, F, G	EACH	7
REMOVE EXISTING HANDHOLE	EH1, EH2, EH3, EH4, EH5, EH6, EH7, EH8, EH9	EACH	9

TEMPORARY CABLE DIAGRAM

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION PROPOSED TEMPORARY CABLE DIAGRAM IL. 47 (BRIDGE ST.)/ LANDMARK AVENUE
NAME	DATE	
		SCALE: NONE DATE: MARCH, 2010 DRAWN BY: SL CHECKED BY: KC

PLOT DATE = 8/11/2011
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PLOT SCALE = 6.3500 in / IN.
USER NAME = JOSEPH.SCAL

TRAFFIC SIGNAL LEGEND

-  HANDHOLE
-  DOUBLE HANDHOLE
-  CONTROLLER AND CABINET
-  LIGHTING CONTROLLER AND CABINET
-  SIGNAL HEAD WITH BACKPLATE
-  POWER SERVICE INSTALLATION
-  PEDESTRIAN SIGNAL HEAD
-  PEDESTRIAN PUSH BUTTON
-  SIGNAL POST
-  STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE, SODIUM VAPOR, 400 WATT
-  CONDUIT: "T" TRENCH, "P" PUSHED
-  DETECTOR LOOP
-  LIGHT DETECTOR
-  CONFIRMATION BEACON

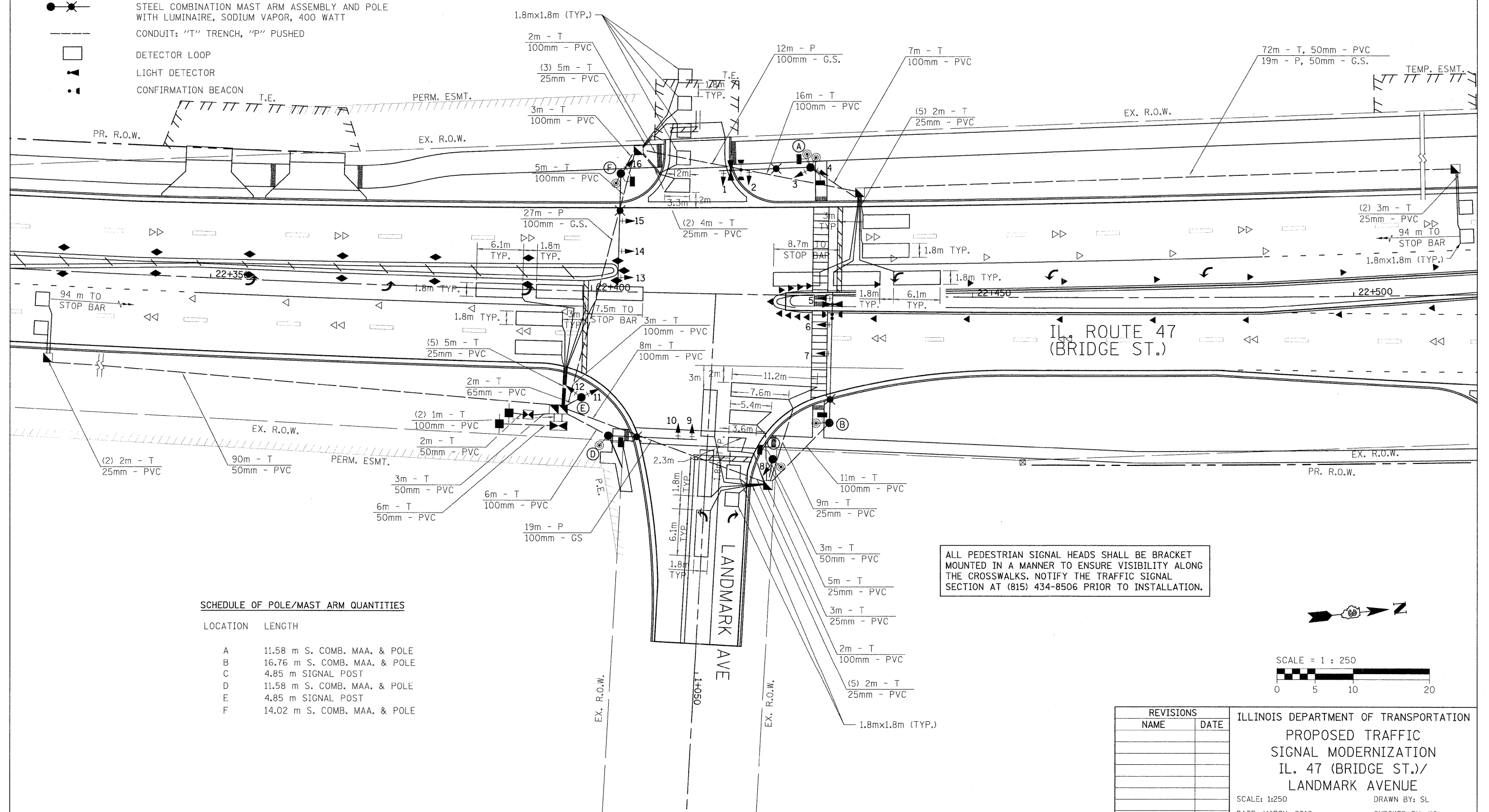
NOTIFY THE TRAFFIC SIGNAL SECTION AT (815) 434-8506 72 HOURS IN ADVANCE TO REDESIGN THE DETECTOR LOOPS, IF POSSIBLE, TO AVOID CONSTRUCTION JOINTS.

SCHEDULE OF SIGNAL HEAD QUANTITIES

LOCATION	ITEM	UNIT	QUANTITY
1,2,6,7,9,10,14,15	SH, 1F, 3S, MAM	EACH	8
4,8,12,16	SH, 1F, 3S, BM	EACH	4
5,13	SH, 1F, 5S, MAM	EACH	2
3,11	SH, 1F, 5S, BM	EACH	2

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326		KENDALL	931	608
STA. N/A		TO STA. N/A		
FED. ROAD DIST. NO. 5		ILLINOIS FED. AID PROJECT		

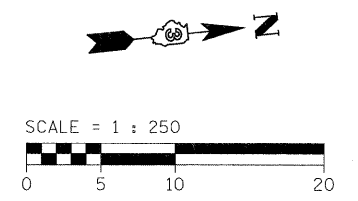
*5CS, 13C, 108, 109R



SCHEDULE OF POLE/MAST ARM QUANTITIES

LOCATION	LENGTH
A	11.58 m S. COMB. MAA. & POLE
B	16.76 m S. COMB. MAA. & POLE
C	4.85 m SIGNAL POST
D	11.58 m S. COMB. MAA. & POLE
E	4.85 m SIGNAL POST
F	14.02 m S. COMB. MAA. & POLE

ALL PEDESTRIAN SIGNAL HEADS SHALL BE BRACKET MOUNTED IN A MANNER TO ENSURE VISIBILITY ALONG THE CROSSWALKS. NOTIFY THE TRAFFIC SIGNAL SECTION AT (815) 434-8506 PRIOR TO INSTALLATION.



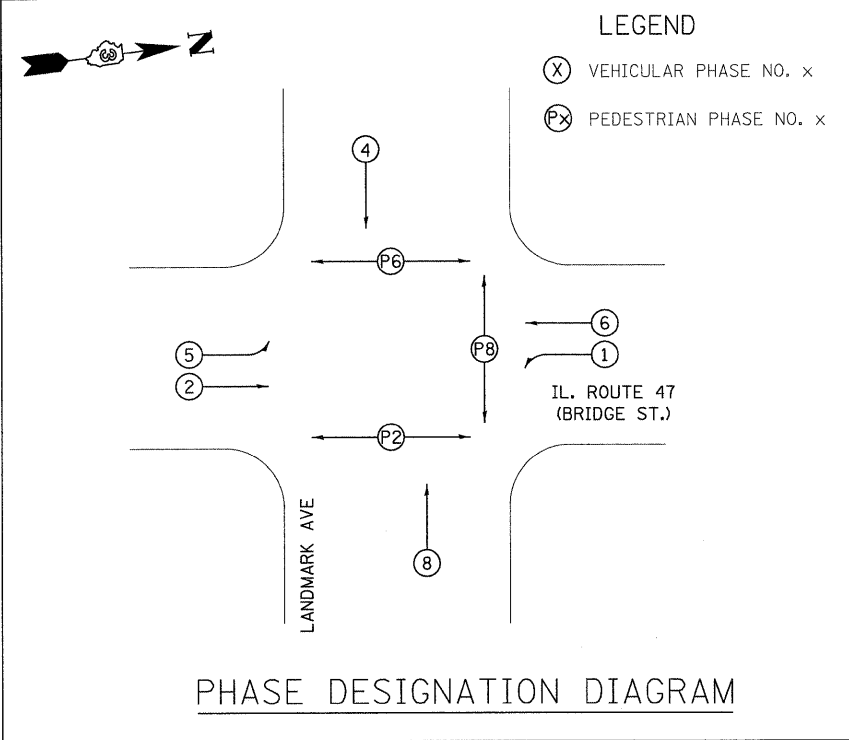
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 PROPOSED TRAFFIC SIGNAL MODERNIZATION
 IL. 47 (BRIDGE ST.)// LANDMARK AVENUE
 SCALE: 1:250 DRAWN BY: SL
 DATE: MARCH, 2010 CHECKED BY: KC

PLOT DATE = 8/11/2011
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 USER = JOSEPH.SOR...

F.A.P. RTE. 326	SECTION	COUNTY KENDALL	TOTAL SHEETS 931	SHEET NO. 609
STA. N/A		TO STA. N/A		
FED. ROAD DIST. NO. 5		ILLINOIS FED. AID PROJECT		

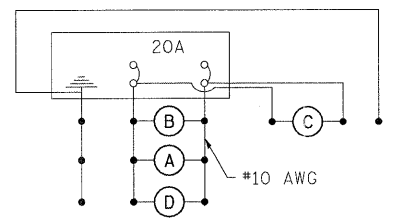
*5CS, 13C, 10B, 109R



PROPOSED CABLE DIAGRAM LEGEND

- CONTROLLER AND CABINET
- LIGHTING CONTROLLER AND CABINET
- SERVICE INSTALLATION
- TRAFFIC SIGNAL HEAD WITH BACKPLATE
- DENOTES NUMBER OF CONDUCTORS
- LUMINAIRE, SODIUM VAPOR, 400 WATT
- PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN DISPLAY
- PEDESTRIAN PUSH BUTTON
- DETECTOR LOOP
- DETECTOR LOOP SYSTEM
- GROUND ROD AT HANDHOLE OR DOUBLE HANDHOLE
- GROUND ROD AT POST (P) OR MAST ARM POLE (MA)
- GROUND ROD AT ELECTRIC SERVICE INSTALLATION
- GROUND ROD AT CONTROLLER
- LIGHT DETECTOR
- CONFIRMATION BEACON

- (S) SERVICE CABLE**
ELECTRIC CABLE IN CONDUIT, SERVICE, NO.6 2C
- (L) LIGHTING CABLE**
600V (XLP-TYPE USE) 3 - 1/C NO.10

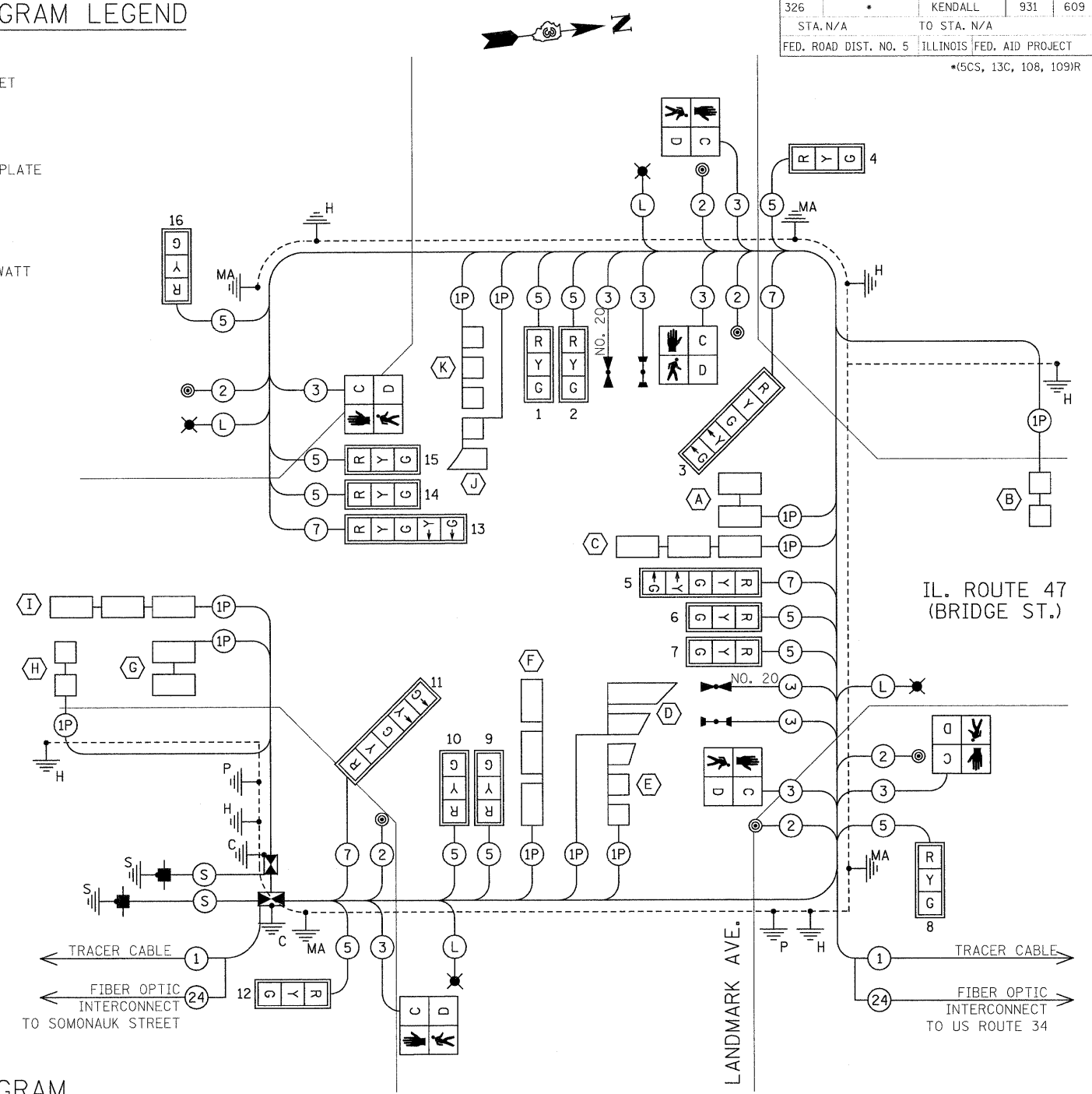


LIGHTING CIRCUIT DIAGRAM

AGENCY RESPONSIBLE FOR ENERGY CHARGES:
CITY OF YORKVILLE
CONTRACTOR PAYS ALL ENERGY CHARGES UNTIL PROJECT IS ACCEPTED

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

EMERGENCY VEHICLE PREEMPTION SEQUENCE



CABLE DIAGRAM

CONTROLLER SPECIFIED: ECONOLITE ASC-3/2100 TS-2 TYPE 2
PEDESTRIAN PUSH-BUTTONS: 4 EVR ROUND MODEL

NOTIFY THE TRAFFIC SIGNAL SECTION AT (815) 434-8506 72 HOURS IN ADVANCE TO REDESIGN THE DETECTOR LOOPS, IF POSSIBLE, TO AVOID CONSTRUCTION JOINTS.

SCHEDULE OF QUANTITIES

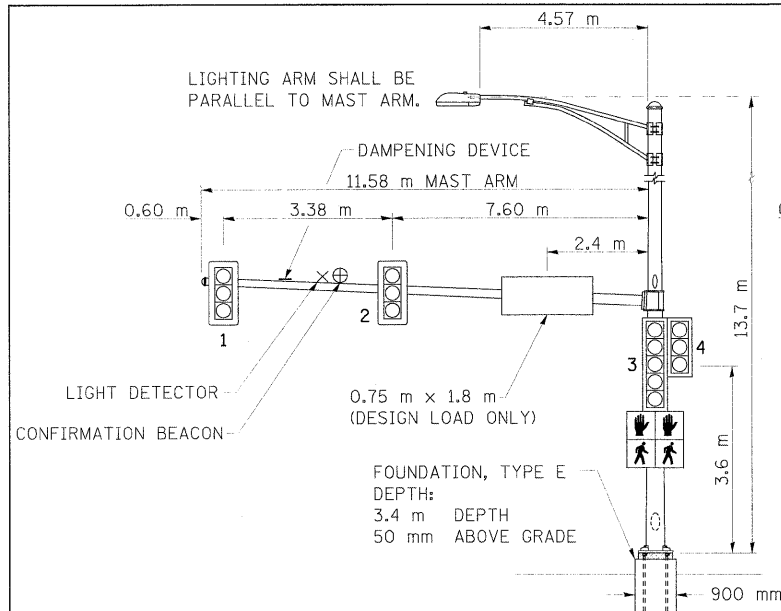
DESCRIPTION	UNIT	QUANTITY
SERVICE INSTALLATION - GROUND MOUNTED	EACH	2
HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	5
DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	1
LUMINAIRE, SODIUM VAPOR, HOR. MOUNT, 400 WATT	EACH	4
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	8
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	6
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	16
INDUCTIVE LOOP DETECTOR	EACH	11
LIGHT DETECTOR	EACH	4
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	6
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	9
REMOVE EXISTING CONCRETE FOUNDATION	EACH	7
SIGN PANEL - TYPE 1	SQ M	0.9
SIGN PANEL - TYPE 2	SQ M	5.4
CONDUIT IN TRENCH 25mm DIA., PVC	METER	95
CONDUIT IN TRENCH 50mm DIA., PVC	METER	170
CONDUIT IN TRENCH 65mm DIA., PVC	METER	2
CONDUIT IN TRENCH 100mm DIA., PVC	METER	65
CONDUIT PUSHED, 50mm DIA., GALVANIZED STEEL	METER	19
CONDUIT PUSHED, 100mm DIA., GALVANIZED STEEL	METER	58
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	METER	576
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	METER	682
TRENCH AND BACKFILL FOR ELECTRICAL WORK	METER	332
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	METER	328
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	METER	340
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	METER	703
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	METER	237
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14, 1-PAIR	METER	1535
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	METER	11
TRAFFIC SIGNAL POST, GALVANIZED STEEL 4.85 METER	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 11.58 METER	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 14.02 METER	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 16.76 METER	EACH	1
CONCRETE FOUNDATION, TYPE A	METER	2.0
CONCRETE FOUNDATION, TYPE C (SPECIAL)	METER	1.1
CONCRETE FOUNDATION, TYPE E 900mm DIAMETER	METER	15.4
DETECTOR LOOP, TYPE 1	METER	465
ELECTRIC CABLE IN CONDUIT NO. 20, 3/C, TWISTED, SHIELDED	METER	680
LIGHTING CONTROLLER, SPECIAL	EACH	1

REVISIONS	
NAME	DATE

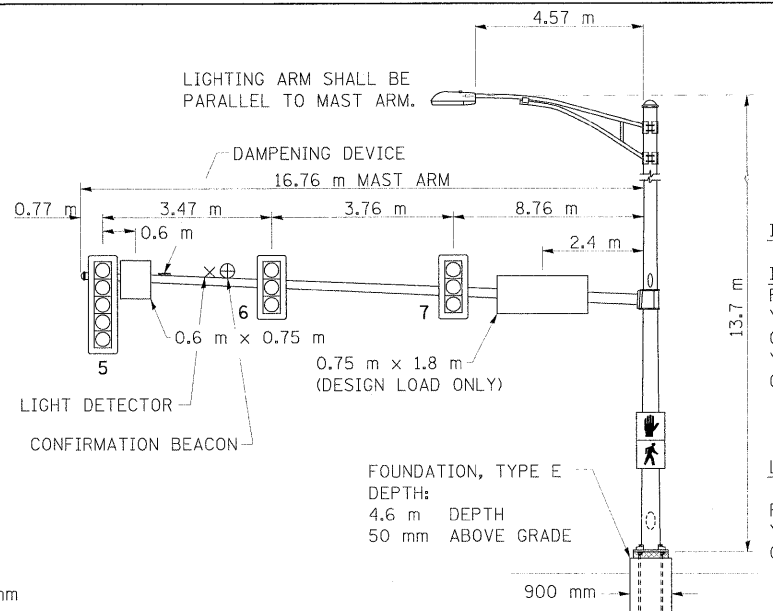
ILLINOIS DEPARTMENT OF TRANSPORTATION
PHASE DIAGRAM, CABLE DIAGRAM
SCHEDULE OF QUANTITIES
IL. 47 (BRIDGE ST.)/
LANDMARK AVENUE

SCALE: NONE DRAWN BY: SL
DATE: MARCH, 2010 CHECKED BY: KC

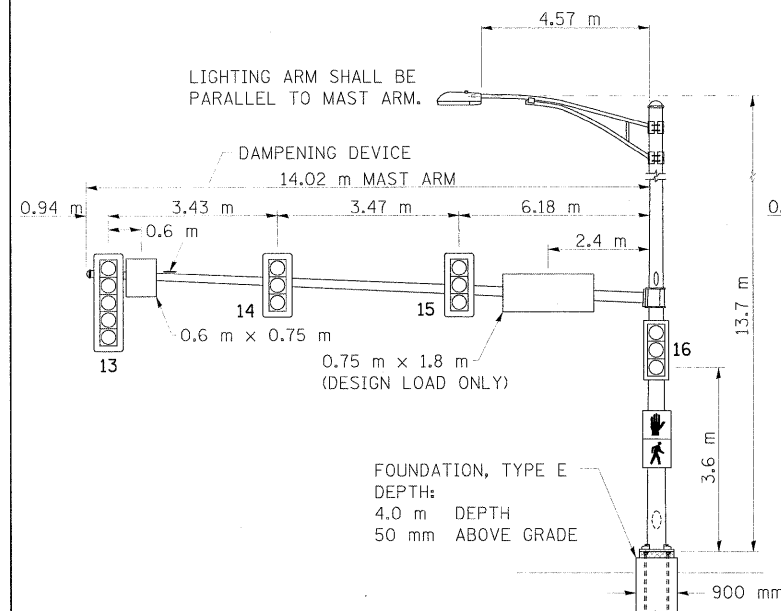
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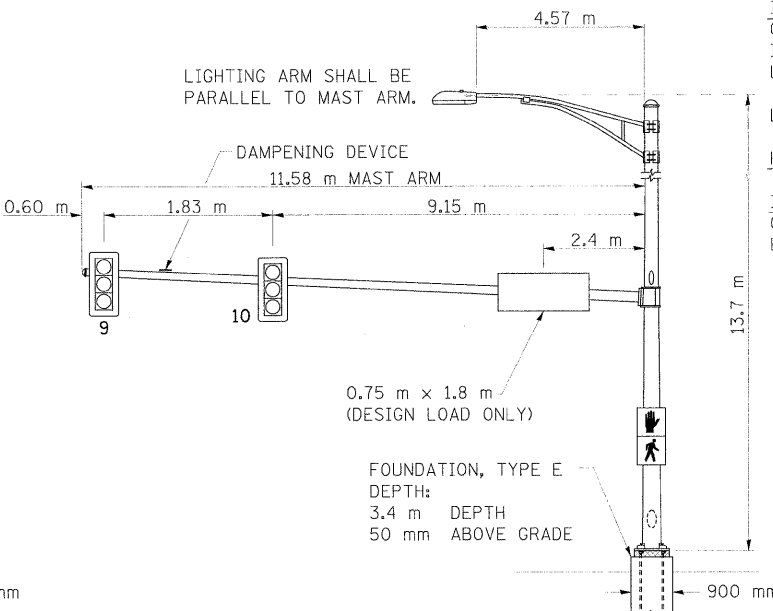
MAST ARM NORTHWEST QUADRANT (A)



MAST ARM NORTHEAST QUADRANT (B)



MAST ARM SOUTHWEST QUADRANT (F)



MAST ARM SOUTHEAST QUADRANT (D)

ELECTRICAL LOAD CHART

IL ROUTE 47

INDICATION	NUMBER	WATTAGE EACH	BURN TIME (%)
RED	10	12	60
YELLOW	10	32	5
GREEN	10	12	35
YELLOW ARROW	4	12	5
GREEN ARROW	4	11	10
DOWN	2	7	5
UP	2	7	95

LANDMARK AVENUE

INDICATION	NUMBER	WATTAGE EACH	BURN TIME (%)
RED	6	12	70
YELLOW	6	32	5
GREEN	6	12	25
DOWN	4	7	5
UP	4	7	95

TRAFFIC SIGNAL CABINET

ITEM	NUMBER	WATTAGE EACH	BURN TIME (%)
CONTROLLER	1	6	100
INDUCTIVE LOOP DETECTOR UNINTERRUPTABLE	11	1.5	100
POWER SUPPLY	1	50	100
LIGHT DETECTOR AMPLIFIER	1	1.5	100

HIGHWAY LIGHTING

ITEM	NUMBER	WATTAGE EACH	BURN TIME (%)
CONTROLLER	1	6	100
LUMINAIRE	4	400	45

DETECTOR LOOP INDUCTANCE CHART

DETECTOR LOOP SYSTEM	TURNS PER LOOP	INDUCTANCE READING (MICROHENRIES)	FREQUENCY (HERTZ)	J PIN STATUS
A	4	569	25,569	OFF
B	6	620	24,511	ON
C	4	829	21,189	ON
D	4	658	23,793	OFF
E	5	563	25,721	ON
F	4	803	21,523	ON
G	4	524	26,662	OFF
H	5	427	29,536	ON
I	4	784	21,798	ON
J	5	438	29,163	ON
K	5	569	25,575	ON

NOTIFY THE TRAFFIC SIGNAL SECTION AT (815) 434-8506 72 HOURS IN ADVANCE TO REDESIGN THE DETECTOR LOOPS, IF POSSIBLE, TO AVOID CONSTRUCTION JOINTS.

- NOTES:
- WORD "GRADE" IS TO BE INTERPRETED AS TOP OF CURB. TOP OF FOUNDATION SHALL NOT BE EXPOSED MORE THAN 100 mm ABOVE THE SURROUNDING GROUND.
 - THREE ROUTE SIGNS WILL BE FURNISHED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.
 - ALL SIGNAL HEADS SHALL HAVE BACKPLATES.
 - FOUNDATION SHOULD BE 50mm ABOVE GRADE OR 0.35m ABOVE CENTERLINE OF ROADWAY, WHICHEVER IS HIGHER.

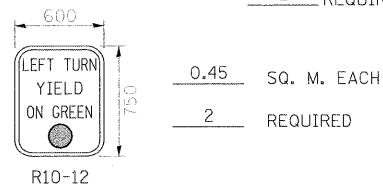
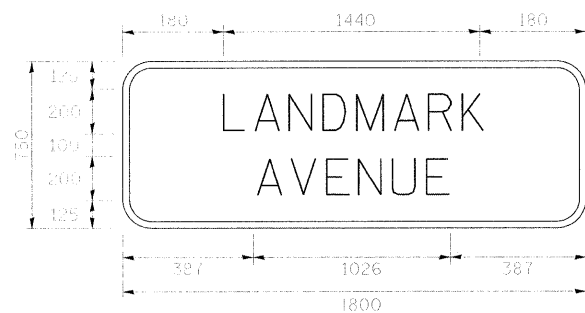
PEDESTRIAN CROSSING SIGN DETAIL

- COUNT-DOWN PEDESTRIAN SIGN R10-3e TO BE USED.
 8 REQUIRED.
- DIMENSIONS: 230mm x 380mm (TYP.)
 LEGEND AND BORDER: NON-REFLECTORIZED BLACK
 BACKGROUND: RETROREFLECTIVE WHITE
 NUMBERS AND SYMBOLS: RETROREFLECTIVE ORANGE
- ONE SIGN SHALL BE PROVIDED FOR EACH PUSH-BUTTON. ORIENTATION OF DIRECTIONAL ARROWS TO BE DETERMINED BY PUSH-BUTTON LOCATION.
- ALL MOUNTING HARDWARE SHALL BE STAINLESS STEEL CONSTRUCTION. ALL MOUNTING BOLTS SHALL BE HEX HEAD.
- MATERIALS AND INSTALLATION OF THIS SIGN SHALL BE INCLUDED IN THE COST OF PEDESTRIAN PUSH-BUTTON.

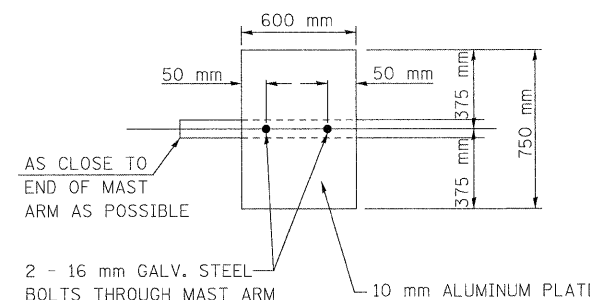
STREET SIGN DETAIL

THESE STREET NAME SIGNS SHALL BE PLACED ON THE MAST ARMS PARALLEL TO THE RESPECTIVE ROUTE AS DIRECTED BY THE ENGINEER.

- STREET NAME SIGNS:
- TYPE ZZ SHEETING REQUIRED
 - WHITE/GREEN BACKGROUND
 - STYLE (d)-15 mm BORDER
 - 200 mm SERIES D LETTERS
 - ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN



NOTE:
 DAMPENING DEVICE SHALL CONSIST OF A 600mm X 750mm TYPE 1, UNPAINTED ALUMINUM SIGN STOCK MOUNTED HORIZONTALLY ON TOP OF MAST ARM WITH THE 750mm LENGTH PERPENDICULAR TO THE ARM. COST OF THE DAMPENING DEVICE IS INCLUDED IN THE MAST ARM PAY ITEM.



DAMPENING PLATE DETAIL

(TOP VIEW) INCIDENTAL TO MAST ARM QUANTITY

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION MAST ARM LOADING DIAGRAM ELECTRICAL LOAD CHART SIGN DETAILS IL. 47 (BRIDGE ST.)/ LANDMARK AVENUE SCALE: NONE DATE: MARCH, 2010	DRAWN BY: SL CHECKED BY: KC
NAME	DATE		

PLOT DATE = 8/11/2011
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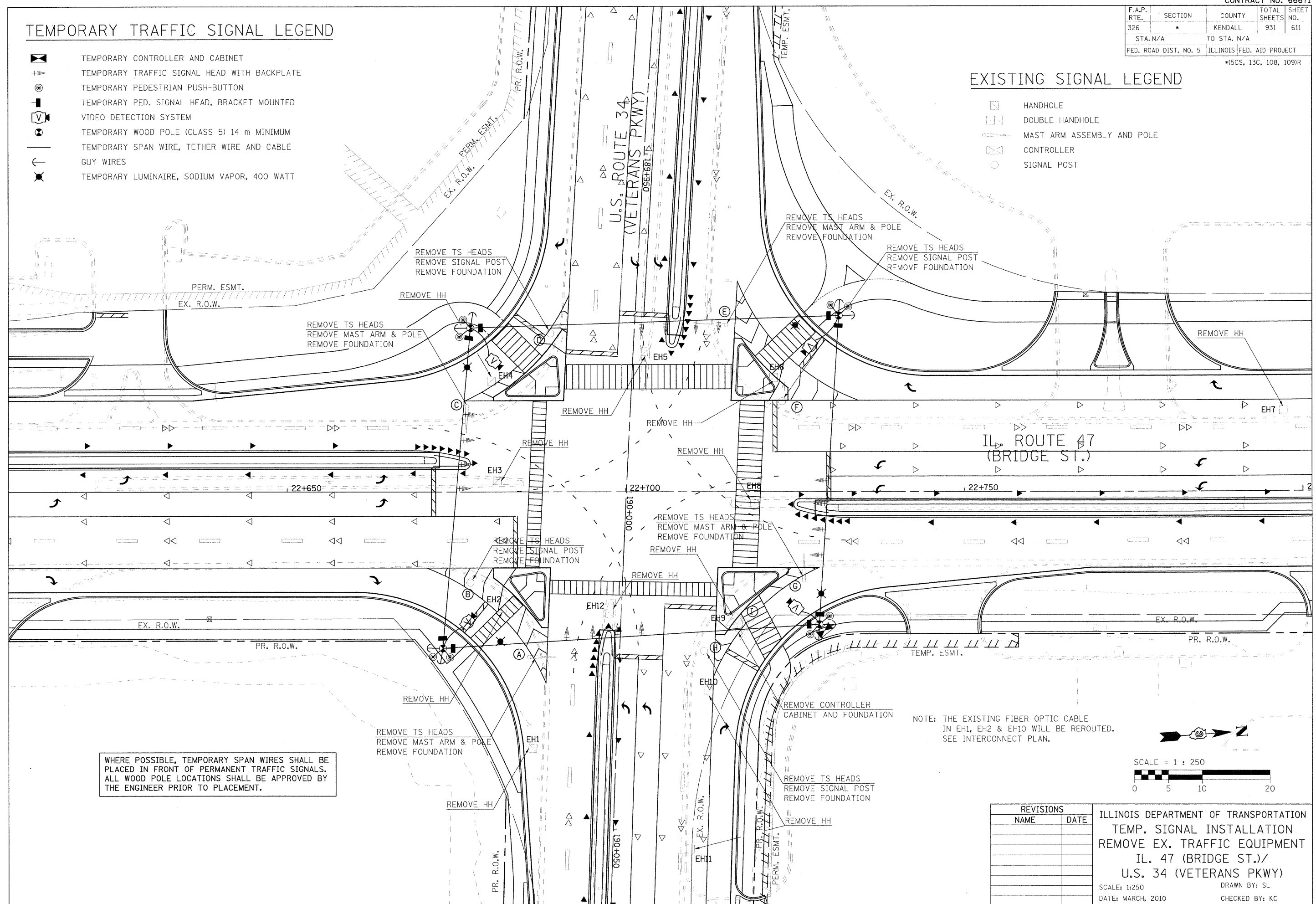
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326		KENDALL	931	611
STA. N/A		TO STA. N/A		
FED. ROAD DIST. NO. 5		ILLINOIS FED. AID PROJECT		

TEMPORARY TRAFFIC SIGNAL LEGEND

- TEMPORARY CONTROLLER AND CABINET
- TEMPORARY TRAFFIC SIGNAL HEAD WITH BACKPLATE
- TEMPORARY PEDESTRIAN PUSH-BUTTON
- TEMPORARY PED. SIGNAL HEAD, BRACKET MOUNTED
- VIDEO DETECTION SYSTEM
- TEMPORARY WOOD POLE (CLASS 5) 14 m MINIMUM
- TEMPORARY SPAN WIRE, TETHER WIRE AND CABLE
- GUY WIRES
- TEMPORARY LUMINAIRE, SODIUM VAPOR, 400 WATT

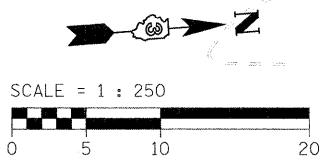
EXISTING SIGNAL LEGEND

- HANDHOLE
- DOUBLE HANDHOLE
- MAST ARM ASSEMBLY AND POLE
- CONTROLLER
- SIGNAL POST



WHERE POSSIBLE, TEMPORARY SPAN WIRES SHALL BE PLACED IN FRONT OF PERMANENT TRAFFIC SIGNALS. ALL WOOD POLE LOCATIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO PLACEMENT.

NOTE: THE EXISTING FIBER OPTIC CABLE IN EH1, EH2 & EH10 WILL BE REROUTED. SEE INTERCONNECT PLAN.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TEMP. SIGNAL INSTALLATION
 REMOVE EX. TRAFFIC EQUIPMENT
 IL. 47 (BRIDGE ST.)/
 U.S. 34 (VETERANS PKWY)
 SCALE: 1:250
 DATE: MARCH, 2010
 DRAWN BY: SL
 CHECKED BY: KC

PLOT DATE = 8/17/2011
 FILE NAME = h:\15122\design\611-6131134_r.mxd
 PLOT SCALE = 6:3000 in / in
 USER NAME = JBERDESOP.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	*	KENDALL	931	612
STA. N/A		TO STA. N/A		
FED. ROAD DIST. NO. 5		ILLINOIS FED. AID PROJECT		

*15CS, 13C, 10B, 109R

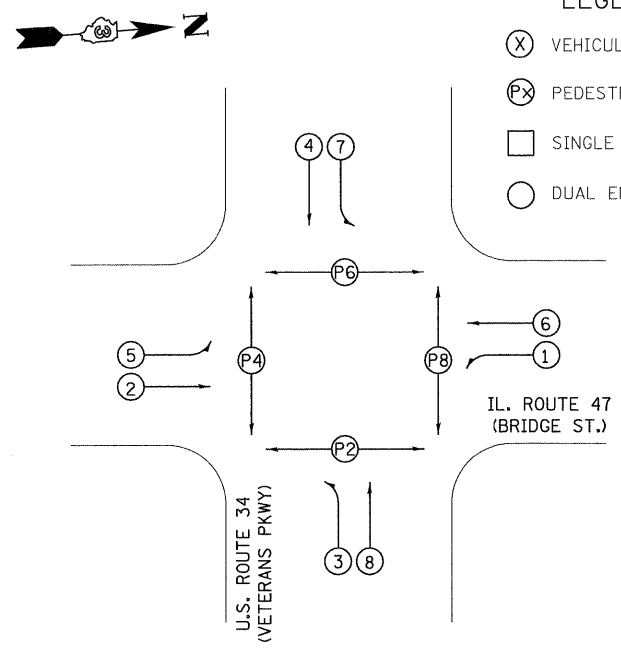
TEMPORARY CABLE DIAGRAM LEGEND

- TEMPORARY CONTROLLER
- TEMPORARY SERVICE INSTALLATION
- TEMPORARY TRAFFIC SIGNAL HEAD W/ BACKPLATE
- DENOTES NUMBER OF CONDUCTORS
- VIDEO DETECTION SYSTEM
- TEMPORARY PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN DISPLAY
- TEMPORARY PEDESTRIAN PUSH BUTTON
- TEMPORARY LUMINAIRE, SODIUM VAPOR, 400 WATT

- (V) VIDEO CAMERA CABLE**
6 PAIRS, TWISTED REQUIRED
3 PAIRS CONDUCTOR FOR POWER - 24V AC (AC+, AC-, GND)
1 PAIR DATA
1 PAIR COMPOSITE VIDEO
1 PAIR DETECTOR DATA
OVERALL SHIELD
MINIMUM 16AWG (PAIRS)
(TO BE INCLUDED IN THE BID PRICE FOR TEMPORARY TRAFFIC SIGNAL INSTALLATION)
- (S) SERVICE CABLE**
ELECTRIC CABLE IN CONDUIT, SERVICE, NO.6 2C
- (L) LIGHTING CABLE**
600V (XLP-TYPE USE) 3 - 1/2 NO.10

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION PROPOSED TEMPORARY CABLE DIAGRAM, STAGE I IL. 47 (BRIDGE ST.)/ U.S. 34 (VETERANS PKWY)
NAME	DATE	
		SCALE: NONE DATE: MARCH, 2010 DRAWN BY: SL CHECKED BY: KC

- LEGEND
- VEHICULAR PHASE NO. x
 - PEDESTRIAN PHASE NO. x
 - SINGLE ENTRY
 - DUAL ENTRY



STAGE I
PHASE DESIGNATION DIAGRAM

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT 1 EACH

THE FOLLOWING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED AND REMAIN THE PROPERTY OF THE CONTRACTOR, IF IT IS NOT BEING USED FOR THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.

- 4 EACH MAST ARM ASSEMBLY AND POLE
- 15 EACH SIGNAL HEAD (NOTE: THE EXISTING IN-BOARD EASTBOUND 5-SECTION SIGNAL HEAD SHALL BE DELIVERED TO THE CITY)
- 4 EACH SIGNAL POST
- ALL PEDESTRIAN SIGNAL HEADS AND NON-CONFORMING PUSH-BUTTONS

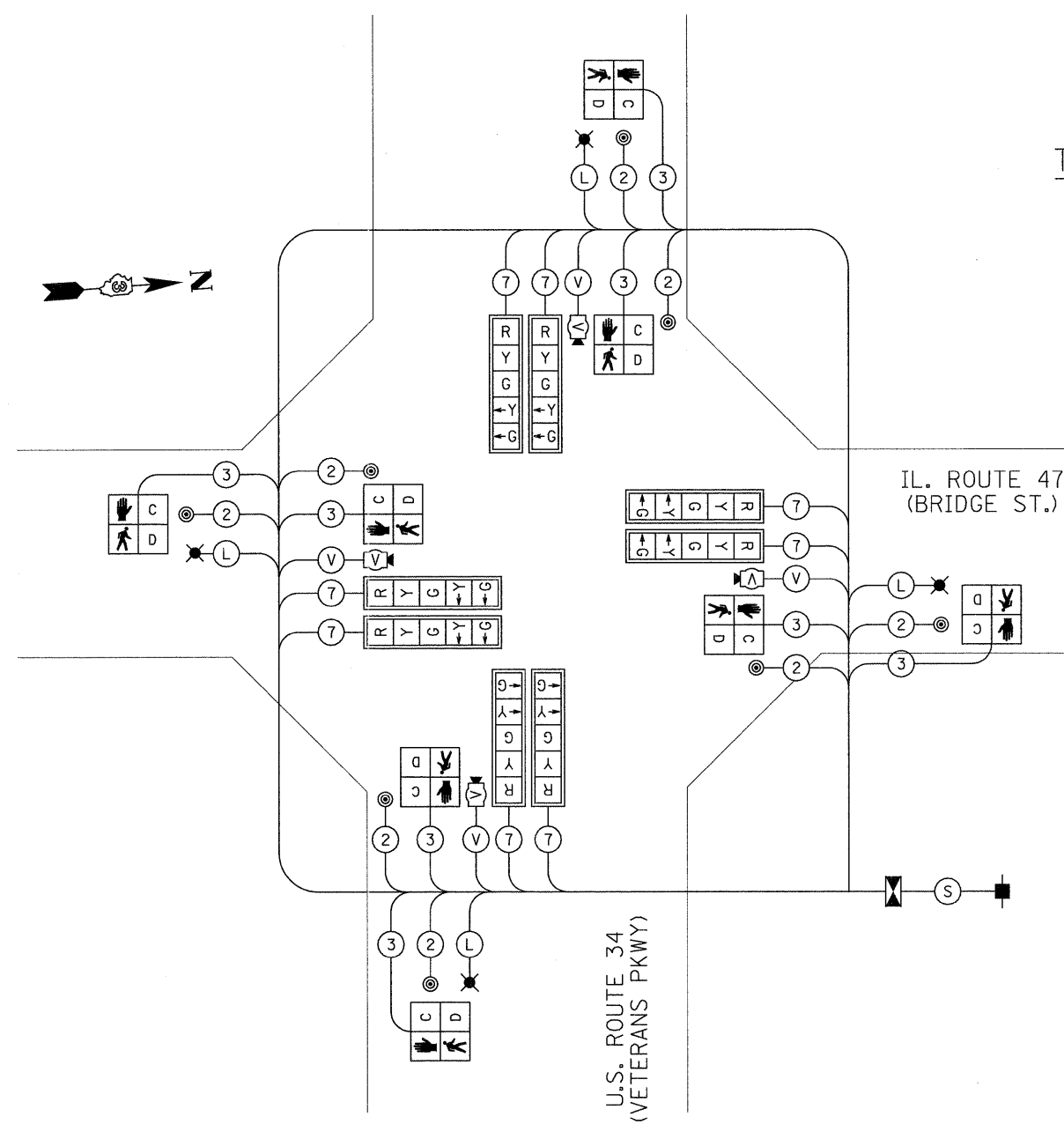
ALL REMAINING REMOVAL ITEMS EXCEPT AS SPECIFIED BELOW SHALL BE REMOVED AND DELIVERED BY THE CONTRACTOR TO THE CITY OF YORKVILLE, 610 TOWER LANE, YORKVILLE, IL.

THE FOLLOWING ITEMS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR OFF THE RIGHT-OF-WAY. THE SALVAGE VALUE OF THIS EQUIPMENT SHALL BE REFLECTED IN THE UNIT BID PRICE OF REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT.

- 1 EACH SERVICE INSTALLATION
- ALL WIRES

SCHEDULE OF REMOVAL ITEMS

ITEM	LOCATION	UNIT	QUANTITIES
REMOVE EXISTING CONCRETE FOUNDATION	A, B, C, D E, F, G, H, I	EACH	9
REMOVE EXISTING HANDHOLE	EH1,EH2,EH3,EH4,EH5,EH6 EH7,EH8,EH9,EH10,EH11,EH12	EACH	12



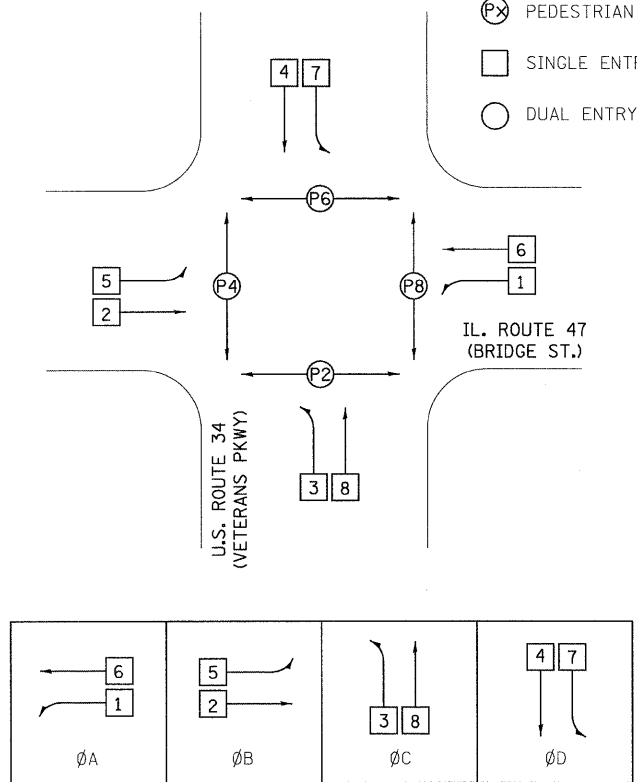
STAGE I
TEMPORARY CABLE DIAGRAM

PLOT DATE = 8/11/2011
 FILE NAME = h:\5122\design\611-613\134_rem.dgn
 PLOT SCALE = 6.3500 in / 1 in.
 USER NAME = _JOSERDESCH_

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	*	KENDALL	931	613
STA. N/A		TO STA. N/A		
FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT				

LEGEND

- (X) VEHICULAR PHASE NO. x
- (Px) PEDESTRIAN PHASE NO. x
- SINGLE ENTRY
- DUAL ENTRY

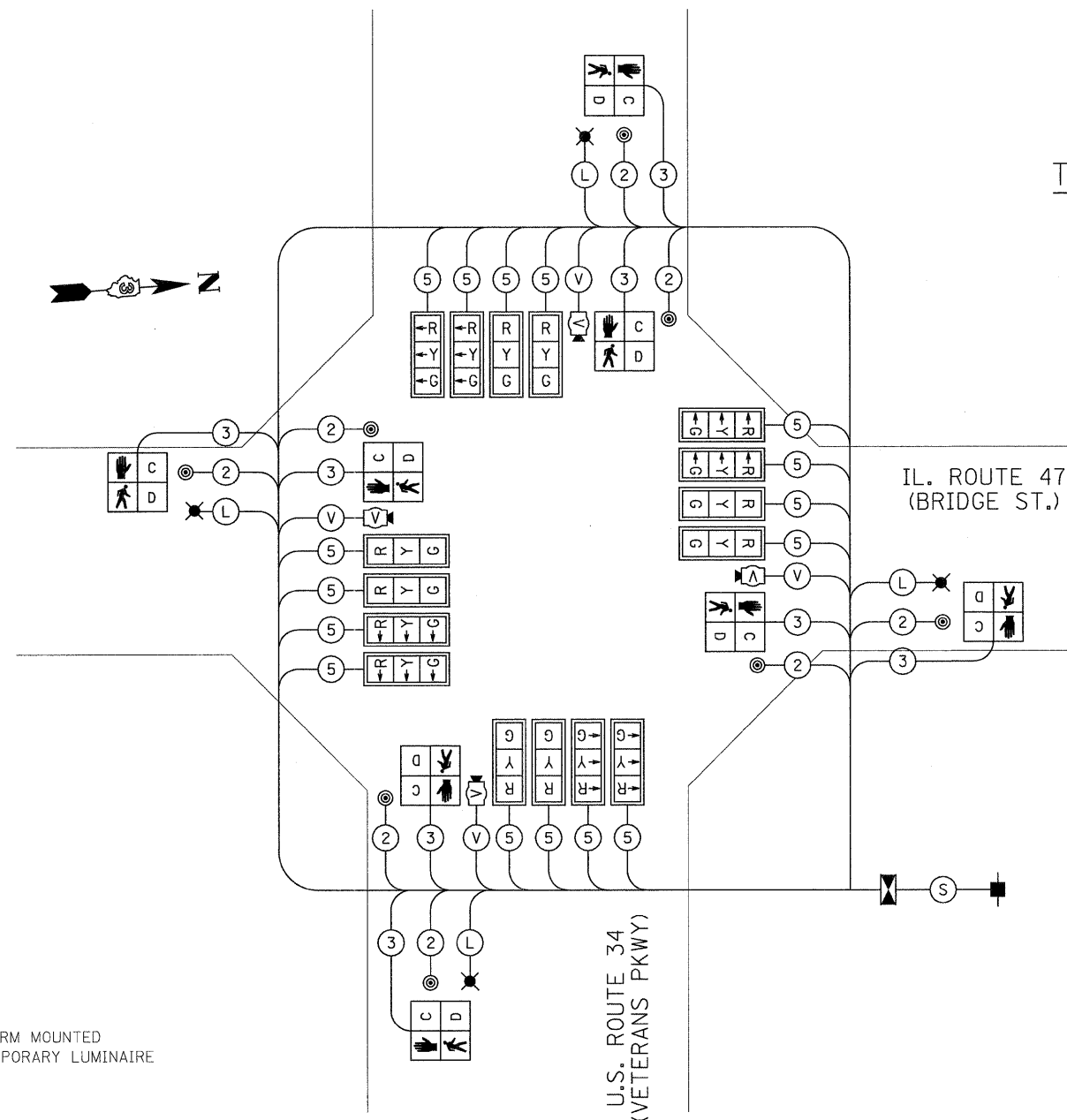


STAGE II

PHASE DESIGNATION DIAGRAM

TEMPORARY CABLE DIAGRAM LEGEND

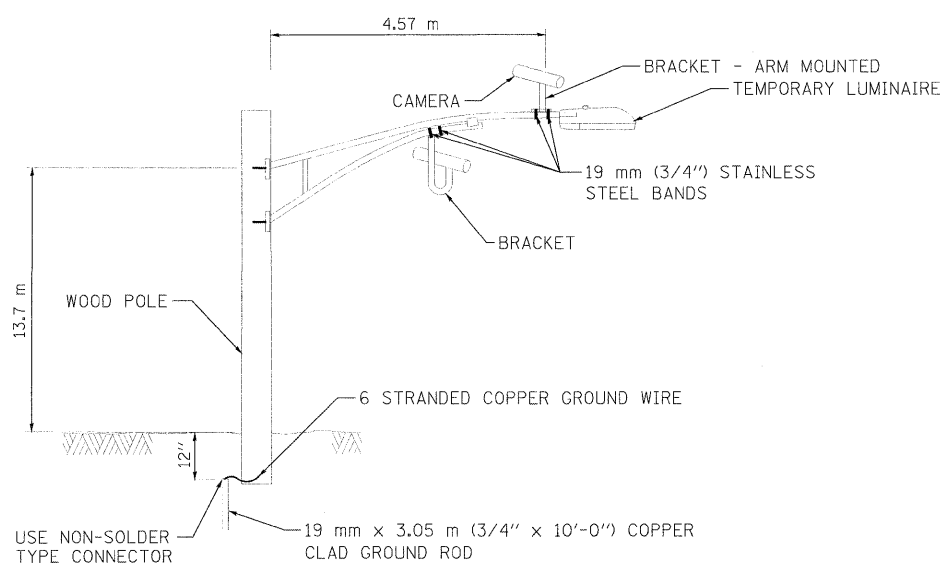
- ⊠ TEMPORARY CONTROLLER
- TEMPORARY SERVICE INSTALLATION
- ⎓ TEMPORARY TRAFFIC SIGNAL HEAD W/ BACKPLATE
- DENOTES NUMBER OF CONDUCTORS
- V VIDEO DETECTION SYSTEM
- ⎓ C D TEMPORARY PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN DISPLAY
- ⊙ TEMPORARY PEDESTRIAN PUSH BUTTON
- ⊠ TEMPORARY LUMINAIRE, SODIUM VAPOR, 400 WATT



STAGE II

TEMPORARY CABLE DIAGRAM

- (V) VIDEO CAMERA CABLE
6 PAIRS, TWISTED REQUIRED
3 PAIRS CONDUCTOR FOR POWER - 24V AC (AC+, AC-, GND)
1 PAIR DATA
1 PAIR COMPOSITE VIDEO
1 PAIR DETECTOR DATA
OVERALL SHIELD MINIMUM 16AWG (PAIRS) (TO BE INCLUDED IN THE BID PRICE FOR VEHICLE VIDEO DETECTION SYSTEM)
- (S) SERVICE CABLE
ELECTRIC CABLE IN CONDUIT, SERVICE, NO.6 2C
- (L) LIGHTING CABLE
600V (XLP-TYPE USE) 3 - 1/C NO.10



VIDEO DETECTION SYSTEM
INSTALLATION DETAILS















NOTE: CAMERA CAN BE ROTATED INSIDE THE ENCLOSURE AFTER INSTALLATION TO ALIGN HORIZON AT HORIZONTAL PLANE.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION PROPOSED TEMPORARY CABLE DIAGRAM, STAGE II IL. 47 (BRIDGE ST.)/ U.S. 34 (VETERANS PKWY)
NAME	DATE	
		SCALE: NONE DATE: MARCH, 2010 DRAWN BY: SL CHECKED BY: KC

PLOT DATE = 8/11/2011
 FILE NAME = H:\5122\design\611-613134_remdgn
 PLOT SCALE = 635000 m / IN.
 USER NAME = JOSEPHDESOL.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	*	KENDALL	931	614
STA. N/A		TO STA. N/A		
FED. ROAD DIST. NO. 5		ILLINOIS FED. AID PROJECT		
*15CS, 13C, 108, 109IR				

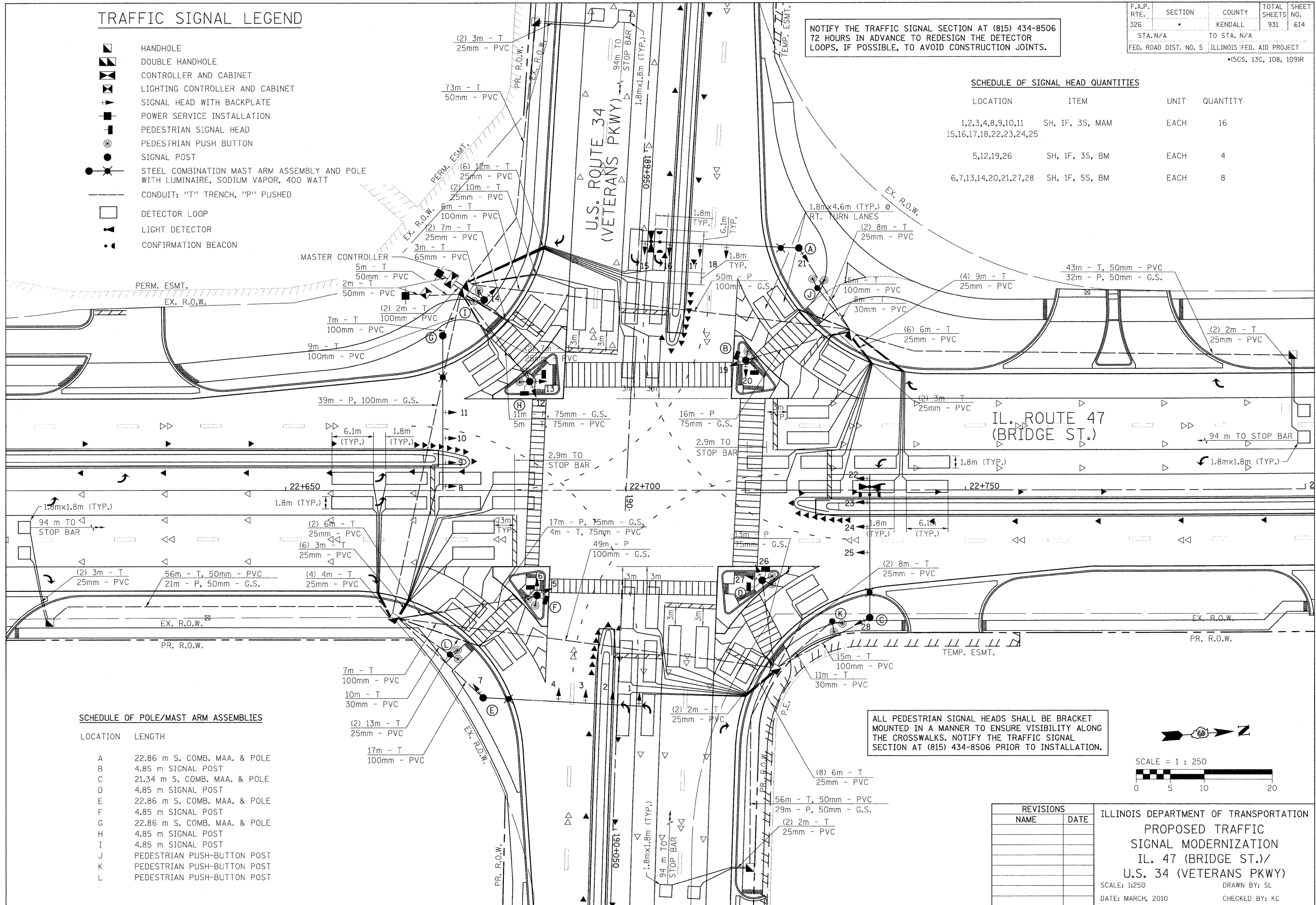
TRAFFIC SIGNAL LEGEND

-  HANDHOLE
-  DOUBLE HANDHOLE
-  CONTROLLER AND CABINET
-  LIGHTING CONTROLLER AND CABINET
-  SIGNAL HEAD WITH BACKPLATE
-  POWER SERVICE INSTALLATION
-  PEDESTRIAN SIGNAL HEAD
-  PEDESTRIAN PUSH BUTTON
-  SIGNAL POST
-  STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE, SODIUM VAPOR, 400 WATT
-  CONDUIT: "T" TRENCH, "P" PUSHED
-  DETECTOR LOOP
-  LIGHT DETECTOR
-  CONFIRMATION BEACON

NOTIFY THE TRAFFIC SIGNAL SECTION AT (815) 434-8506 72 HOURS IN ADVANCE TO REDESIGN THE DETECTOR LOOPS, IF POSSIBLE, TO AVOID CONSTRUCTION JOINTS.

SCHEDULE OF SIGNAL HEAD QUANTITIES

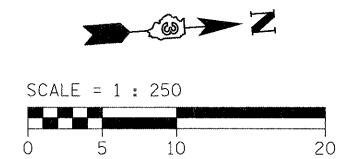
LOCATION	ITEM	UNIT	QUANTITY
1,2,3,4,8,9,10,11 15,16,17,18,22,23,24,25	SH, 1F, 3S, MAM	EACH	16
5,12,19,26	SH, 1F, 3S, BM	EACH	4
6,7,13,14,20,21,27,28	SH, 1F, 5S, BM	EACH	8



SCHEDULE OF POLE/MAST ARM ASSEMBLIES

LOCATION	LENGTH
A	22.86 m S. COMB. MAA. & POLE
B	4.85 m SIGNAL POST
C	21.34 m S. COMB. MAA. & POLE
D	4.85 m SIGNAL POST
E	22.86 m S. COMB. MAA. & POLE
F	4.85 m SIGNAL POST
G	22.86 m S. COMB. MAA. & POLE
H	4.85 m SIGNAL POST
I	4.85 m SIGNAL POST
J	PEDESTRIAN PUSH-BUTTON POST
K	PEDESTRIAN PUSH-BUTTON POST
L	PEDESTRIAN PUSH-BUTTON POST

ALL PEDESTRIAN SIGNAL HEADS SHALL BE BRACKET MOUNTED IN A MANNER TO ENSURE VISIBILITY ALONG THE CROSSWALKS. NOTIFY THE TRAFFIC SIGNAL SECTION AT (815) 434-8506 PRIOR TO INSTALLATION.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 PROPOSED TRAFFIC
 SIGNAL MODERNIZATION
 IL. 47 (BRIDGE ST.)/
 U.S. 34 (VETERANS PKWY)
 SCALE: 1:250 DRAWN BY: SL
 DATE: MARCH, 2010 CHECKED BY: KC

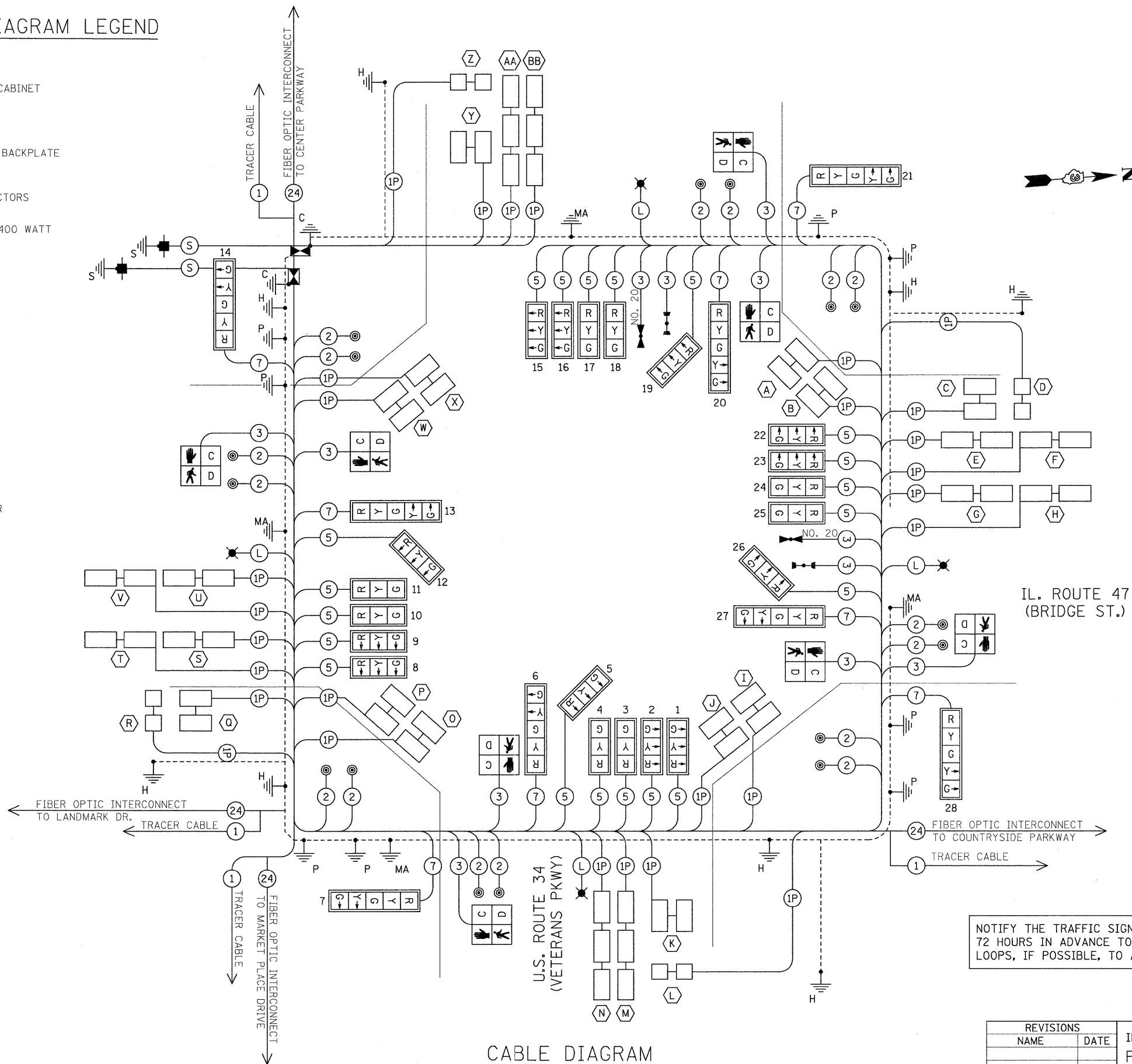
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 USER NAME = JUSEPDESOF.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	*	KENDALL	931	615
STA. N/A		TO STA. N/A		
FED. ROAD DIST. NO. 5		ILLINOIS FED. AID PROJECT		

* (5CS, 13C, 10B, 109)R

PROPOSED CABLE DIAGRAM LEGEND

- CONTROLLER AND CABINET
- LIGHTING CONTROLLER AND CABINET
- SERVICE INSTALLATION
- TRAFFIC SIGNAL HEAD WITH BACKPLATE
- DENOTES NUMBER OF CONDUCTORS
- LUMINAIRE, SODIUM VAPOR, 400 WATT
- PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN DISPLAY
- PEDESTRIAN PUSH BUTTON
- DETECTOR LOOP
- DETECTOR LOOP SYSTEM
- GROUND ROD AT HANDHOLE OR DOUBLE HANDHOLE
- GROUND ROD AT POST (P) OR MAST ARM POLE (MA)
- GROUND ROD AT ELECTRIC SERVICE INSTALLATION
- GROUND ROD AT CONTROLLER
- LIGHT DETECTOR
- CONFIRMATION BEACON
- SERVICE CABLE**
ELECTRIC CABLE IN CONDUIT, SERVICE, NO.6 2C
- LIGHTING CABLE**
600V (XLP-TYPE USE) 3 - 1/C NO.10



NOTIFY THE TRAFFIC SIGNAL SECTION AT (815) 434-8506 72 HOURS IN ADVANCE TO REDESIGN THE DETECTOR LOOPS, IF POSSIBLE, TO AVOID CONSTRUCTION JOINTS.

CABLE DIAGRAM

CONTROLLER SPECIFIED: ECONOLITE ASC-3/2100 TS-2 TYPE 2
 MASTER CONTROLLER SPECIFIED: ECONOLITE ASC 2M-1000
 PEDESTRIAN PUSH-BUTTONS: 4 EVR ROUND MODEL

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 PHASE DIAGRAM, CABLE DIAGRAM
 SCHEDULE OF QUANTITIES
 IL. 47 (BRIDGE ST.)/
 U.S. 34 (VETERANS PKWY)
 SCALE: NONE
 DATE: MARCH, 2010
 DRAWN BY: SL
 CHECKED BY: KC

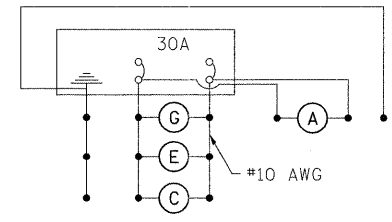
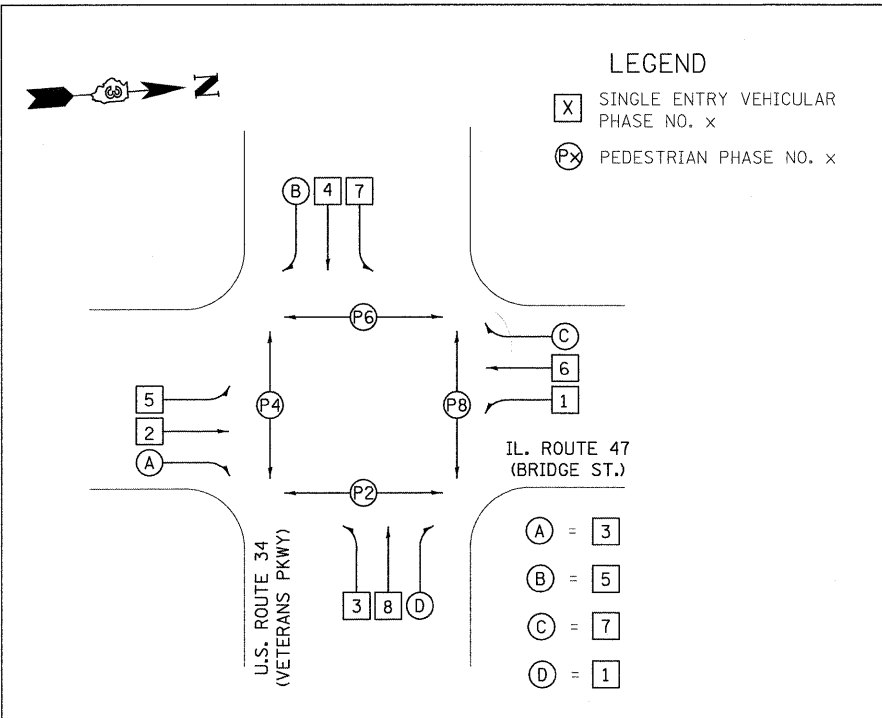
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 USER NAME = JUSERDESCR

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	*	KENDALL	931	616
STA. N/A		TO STA. N/A		
FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT				

*5CS, 13C, 108, 109R

SCHEDULE OF QUANTITIES

DESCRIPTION	UNIT	QUANTITY
SERVICE INSTALLATION - GROUND MOUNTED	EACH	2
HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	7
DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	1
LUMINAIRE, SODIUM VAPOR, HOR. MOUNT, 400 WATT	EACH	4
FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	16
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	8
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	28
INDUCTIVE LOOP DETECTOR	EACH	28
LIGHT DETECTOR	EACH	4
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	16
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	12
REMOVE EXISTING CONCRETE FOUNDATION	EACH	9
SIGN PANEL - TYPE 1	SQ M	1.1
SIGN PANEL - TYPE 2	SQ M	5.4
CONDUIT IN TRENCH 25mm DIA., PVC	METER	374
CONDUIT IN TRENCH 30mm DIA., PVC	METER	29
CONDUIT IN TRENCH 50mm DIA., PVC	METER	232
CONDUIT IN TRENCH 65mm DIA., PVC	METER	3
CONDUIT IN TRENCH 75mm DIA., PVC	METER	9
CONDUIT IN TRENCH 100mm DIA., PVC	METER	80
CONDUIT PUSHED, 50mm DIA., GALVANIZED STEEL	METER	82
CONDUIT PUSHED, 75mm DIA., GALVANIZED STEEL	METER	57
CONDUIT PUSHED, 100mm DIA., GALVANIZED STEEL	METER	138
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	METER	906
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	METER	1731
TRENCH AND BACKFILL FOR ELECTRICAL WORK	METER	727
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	METER	1220
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	METER	660
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	METER	1894
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	METER	644
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14, 1-PAIR	METER	4522
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	METER	12
TRAFFIC SIGNAL POST, GALVANIZED STEEL 4.85 METER	EACH	5
PEDESTRIAN PUSH-BUTTON POST, GALVANIZED STEEL, TYPE I	EACH	3
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 21.34 METER	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 22.86 METER	EACH	3
CONCRETE FOUNDATION, TYPE A	METER	8.0
CONCRETE FOUNDATION, TYPE C (SPECIAL)	METER	1.1
CONCRETE FOUNDATION, TYPE E 1060mm DIAMETER	METER	30.4
DETECTOR LOOP, TYPE 1	METER	1627
ELECTRIC CABLE IN CONDUIT NO. 20, 3/C, TWISTED, SHIELDED	METER	1060
LIGHTING CONTROLLER, SPECIAL	EACH	1

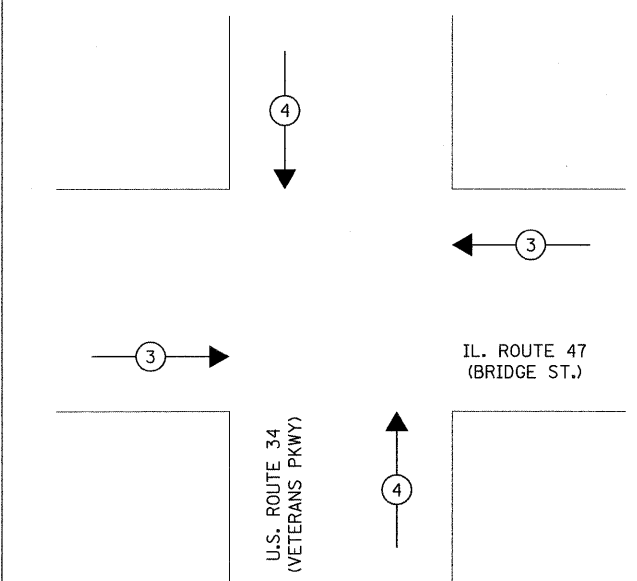


LIGHTING CIRCUIT DIAGRAM

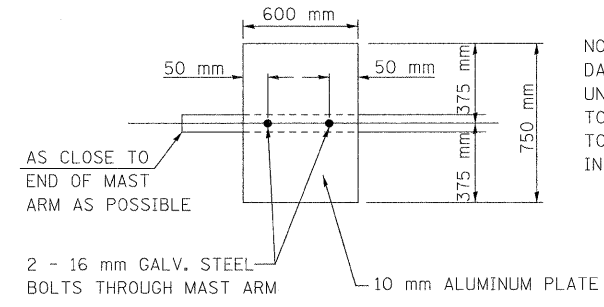
AGENCY RESPONSIBLE FOR ENERGY CHARGES:
CITY OF YORKVILLE
CONTRACTOR PAYS ALL ENERGY CHARGES
UNTIL PROJECT IS ACCEPTED

NOTIFY THE TRAFFIC SIGNAL SECTION AT (815) 434-8506
72 HOURS IN ADVANCE TO REDESIGN THE DETECTOR
LOOPS, IF POSSIBLE, TO AVOID CONSTRUCTION JOINTS.

EMERGENCY VEHICLE PREEMPTION SEQUENCE



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



NOTE:
DAMPENING DEVICE SHALL CONSIST OF A 600mm X 750mm TYPE 1,
UNPAINTED ALUMINUM SIGN STOCK MOUNTED HORIZONTALLY ON
TOP OF MAST ARM WITH THE 750mm LENGTH PERPENDICULAR
TO THE ARM. COST OF THE DAMPENING DEVICE IS INCLUDED
IN THE MAST ARM PAY ITEM.

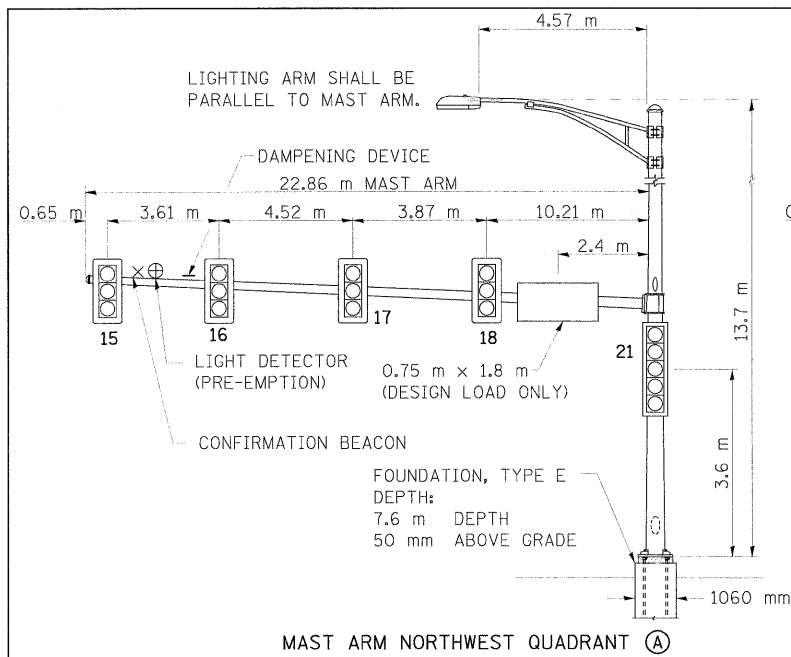
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PHASE DIAGRAM, CABLE DIAGRAM
SCHEDULE OF QUANTITIES
IL. 47 (BRIDGE ST.)/
U.S. 34 (VETERANS PKWY)
SCALE: NONE DRAWN BY: SL
DATE: MARCH, 2010 CHECKED BY: KC

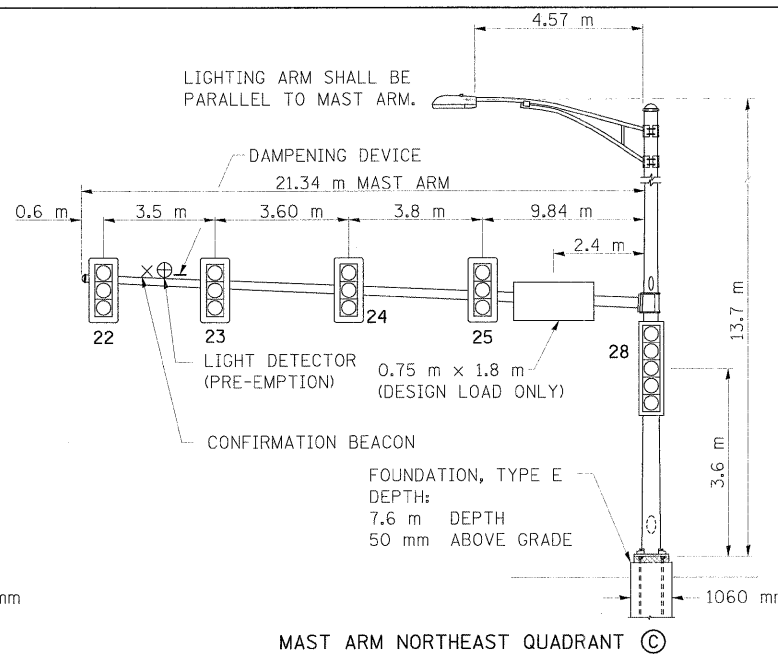
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PLOT SCALE = 63960 IN / IN
USER NAME = JGERDESOL

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	*	KENDALL	931	617
STA. N/A		TO STA. N/A		
FED. ROAD DIST. NO. 5		ILLINOIS FED. AID PROJECT		

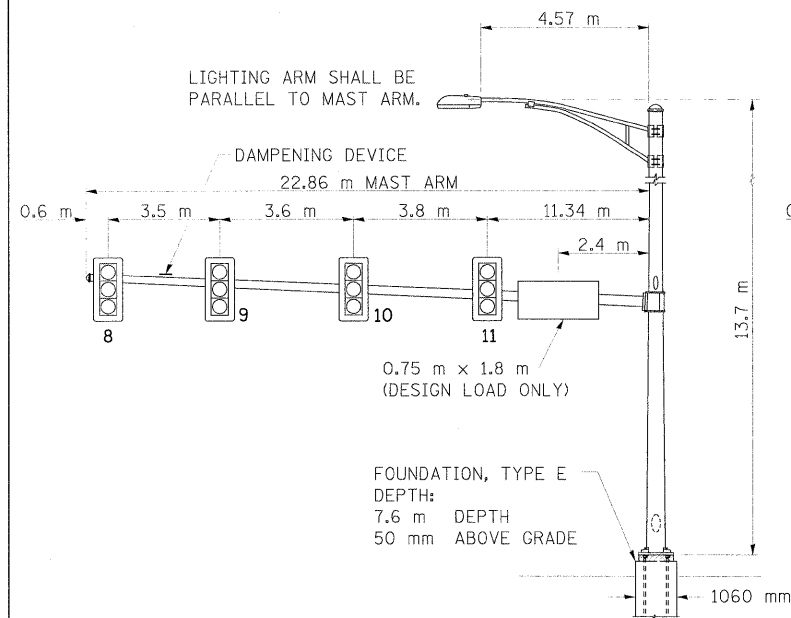
*15CS, 13C, 108, 109IR



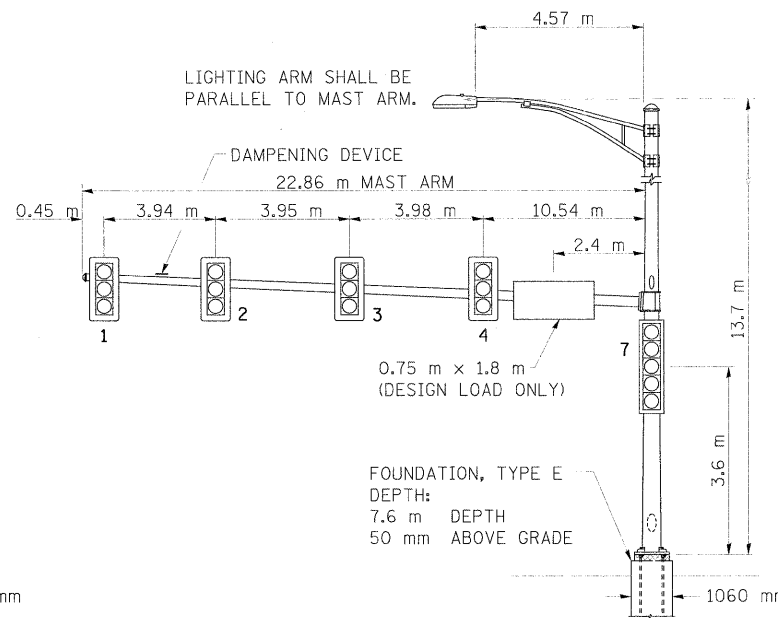
MAST ARM NORTHWEST QUADRANT (A)



MAST ARM NORTHEAST QUADRANT (C)



MAST ARM SOUTHWEST QUADRANT (G)



MAST ARM SOUTHEAST QUADRANT (E)

ELECTRICAL LOAD CHART

IL ROUTE 47

INDICATION	NUMBER	WATTAGE EACH	BURN TIME (%)
RED	8	12	60
YELLOW	8	32	5
GREEN	8	12	35
RED ARROW	6	12	60
YELLOW ARROW	10	12	5
GREEN ARROW	10	11	10
↑	4	7	5
↓	4	7	95

US ROUTE 34

RED	8	12	60
YELLOW	8	32	5
GREEN	8	12	35
RED ARROW	6	12	60
YELLOW ARROW	10	12	5
GREEN ARROW	10	11	10
↑	4	7	5
↓	4	7	95

TRAFFIC SIGNAL CABINET

ITEM	NUMBER	WATTAGE EACH	BURN TIME (%)
MASTER CONTROLLER	1	6	100
INDUCTIVE LOOP DETECTOR	28	1.5	100
UNINTERRUPTIBLE POWER SUPPLY	1	50	100
LIGHT DETECTOR AMPLIFIER	1	1.5	100

HIGHWAY LIGHTING

ITEM	NUMBER	WATTAGE EACH	BURN TIME (%)
CONTROLLER	1	6	100
LUMINAIRE	4	400	45

SEE CABLE DIAGRAM FOR DAMPENING PLATE DETAIL.

GRANULAR SOILS ARE EXPECTED TO BE ENCOUNTERED AT THIS INTERSECTION.

NOTIFY THE TRAFFIC SIGNAL SECTION AT (815) 434-8506 72 HOURS IN ADVANCE TO REDESIGN THE DETECTOR LOOPS, IF POSSIBLE, TO AVOID CONSTRUCTION JOINTS.

NOTES:

- WORD "GRADE" IS TO BE INTERPRETED AS TOP OF CURB. TOP OF FOUNDATION SHALL NOT BE EXPOSED MORE THAN 100 mm ABOVE THE SURROUNDING GROUND.
- ALL SIGNAL HEADS SHALL HAVE BACKPLATES.

DETECTOR LOOP INDUCTANCE CHART

DETECTOR LOOP SYSTEM	TURNS PER LOOP	INDUCTANCE READING (MICROHENRIES)	FREQUENCY (HERTZ)	J PIN STATUS
A	4	468	28,194	OFF
B	4	464	28,315	ON
C	4	566	25,637	OFF
D	6	602	24,875	ON
E	4	566	25,637	ON
F	4	569	25,569	ON
G	4	566	25,637	ON
H	4	569	25,569	ON
I	4	502	27,222	OFF
J	4	498	27,331	ON
K	4	601	24,879	OFF
L	6	643	24,069	ON
M	4	861	20,786	ON
N	4	861	20,786	ON
O	4	466	28,254	OFF
P	4	461	28,407	ON
Q	4	558	25,820	OFF
R	6	598	24,958	ON
S	4	558	25,820	ON
T	4	559	25,797	ON
U	4	558	25,820	ON
V	4	559	25,797	ON
W	4	427	29,516	OFF
X	4	427	29,516	ON
Y	4	529	26,518	OFF
Z	5	416	29,924	ON
AA	4	790	21,700	ON
BB	4	790	21,700	ON

NOTES CONT.:

- FOUNDATION SHOULD BE 50mm ABOVE GRADE OR 0.35mm ABOVE CENTERLINE OF ROADWAY, WHICHEVER IS HIGHER.
- FOUR ROUTE SIGNS WILL BE FURNISHED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

STREET SIGN DETAIL

STREET NAME SIGNS SHALL BE PLACED ON THE MAST ARMS PARALLEL TO THE RESPECTIVE ROUTE AS DIRECTED BY THE ENGINEER.

STREET NAME SIGNS:

- TYPE ZZ SHEETING REQUIRED
- WHITE/GREEN BACKGROUND
- STYLE (d)-15 mm BORDER
- 200 mm SERIES D LETTERS EXCEPT "VETERANS PKWY" USE SERIES C 150 mm
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

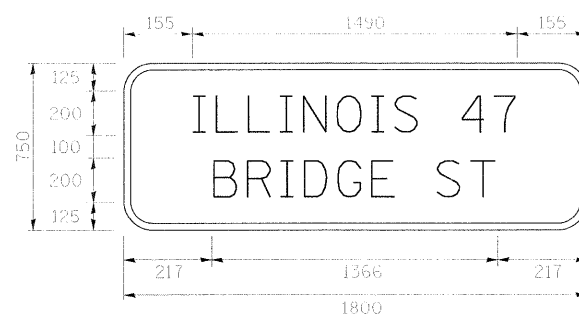
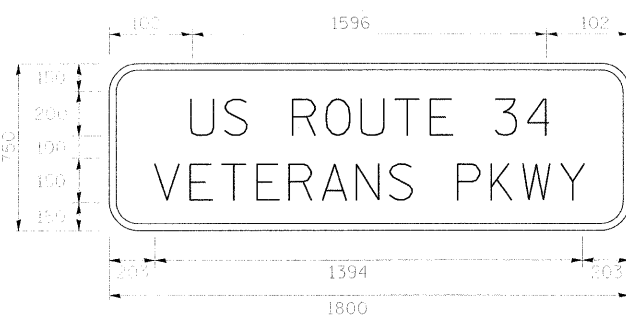
NOTE: TRAILBLAZER SIGNS AS SHOWN SHALL BE PLACED ON MAST ARM POSTS AS DIRECTED BY THE ENGINEER.



0.18 SQ. M. EACH
1 REQUIRED



0.18 SQ. M. EACH
1 REQUIRED



PEDESTRIAN CROSSING SIGN DETAIL

COUNT-DOWN PEDESTRIAN SIGN R10-3e TO BE USED.

16 REQUIRED.

DIMENSIONS: 230mm x 380mm (TYP.)
LEGEND AND BORDER: NON-REFLECTORIZED BLACK
BACKGROUND: RETROREFLECTIVE WHITE
NUMBERS AND SYMBOLS: RETROREFLECTIVE ORANGE

ONE SIGN SHALL BE PROVIDED FOR EACH PUSH-BUTTON.
ORIENTATION OF DIRECTIONAL ARROWS TO BE DETERMINED BY PUSH-BUTTON LOCATION.

ALL MOUNTING HARDWARE SHALL BE STAINLESS STEEL CONSTRUCTION. ALL MOUNTING BOLTS SHALL BE HEX HEAD.

MATERIALS AND INSTALLATION OF THIS SIGN SHALL BE INCLUDED IN THE COST OF PEDESTRIAN PUSH-BUTTON.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION MAST ARM LOADING DIAGRAM ELECTRICAL LOAD CHART SIGN DETAILS IL. 47 (BRIDGE ST.)/ U.S. 34 (VETERANS PKWY)
NAME	DATE	

SCALE: NONE
DATE: MARCH, 2010
DRAWN BY: SL
CHECKED BY: KC

PLOT DATE = 8/11/2011
FILE NAME = H:\S122\design\617134_mast.dgn
PLOT SCALE = 6:3000 mm/IN.
USER NAME = JBERDESOR.

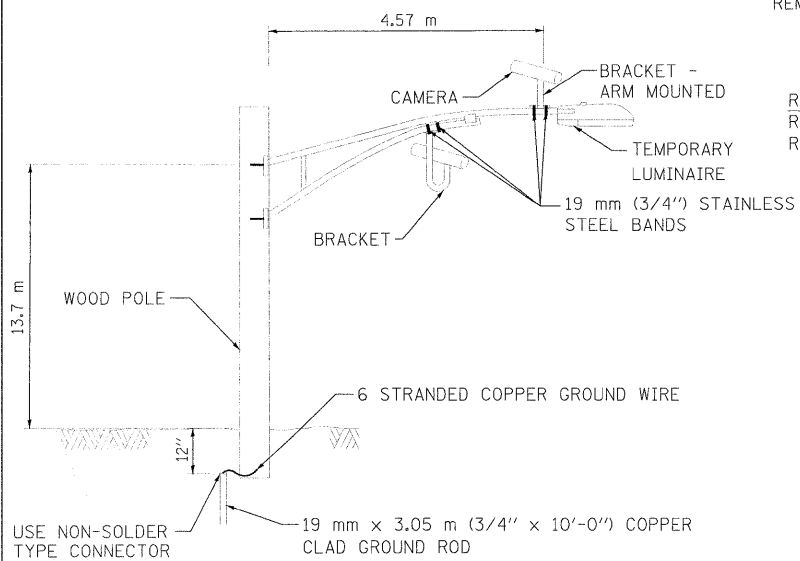
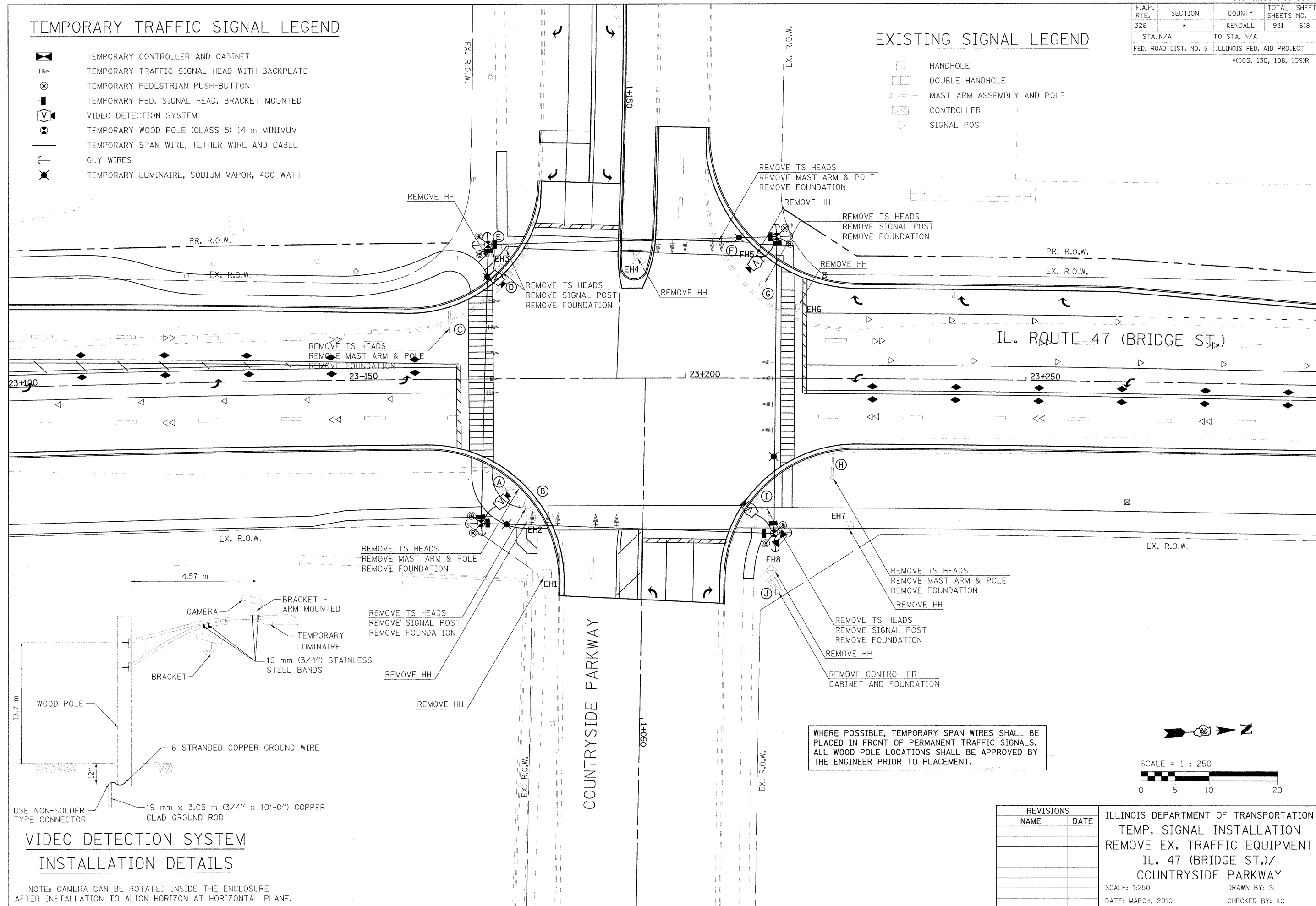
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326		KENDALL	931	618
STA. N/A		TO STA. N/A		
FED. ROAD DIST. NO. 5		ILLINOIS FED. AID PROJECT		
*15CS, 13C, 108, 109IR				

TEMPORARY TRAFFIC SIGNAL LEGEND

- TEMPORARY CONTROLLER AND CABINET
- TEMPORARY TRAFFIC SIGNAL HEAD WITH BACKPLATE
- TEMPORARY PEDESTRIAN PUSH-BUTTON
- TEMPORARY PED. SIGNAL HEAD, BRACKET MOUNTED
- VIDEO DETECTION SYSTEM
- TEMPORARY WOOD POLE (CLASS 5) 14 m MINIMUM
- TEMPORARY SPAN WIRE, TETHER WIRE AND CABLE
- GUY WIRES
- TEMPORARY LUMINAIRE, SODIUM VAPOR, 400 WATT

EXISTING SIGNAL LEGEND

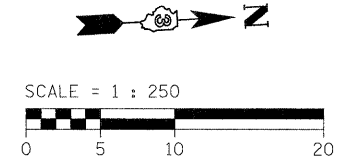
- HANDHOLE
- DOUBLE HANDHOLE
- MAST ARM ASSEMBLY AND POLE
- CONTROLLER
- SIGNAL POST



VIDEO DETECTION SYSTEM INSTALLATION DETAILS

NOTE: CAMERA CAN BE ROTATED INSIDE THE ENCLOSURE AFTER INSTALLATION TO ALIGN HORIZON AT HORIZONTAL PLANE.

WHERE POSSIBLE, TEMPORARY SPAN WIRES SHALL BE PLACED IN FRONT OF PERMANENT TRAFFIC SIGNALS. ALL WOOD POLE LOCATIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO PLACEMENT.

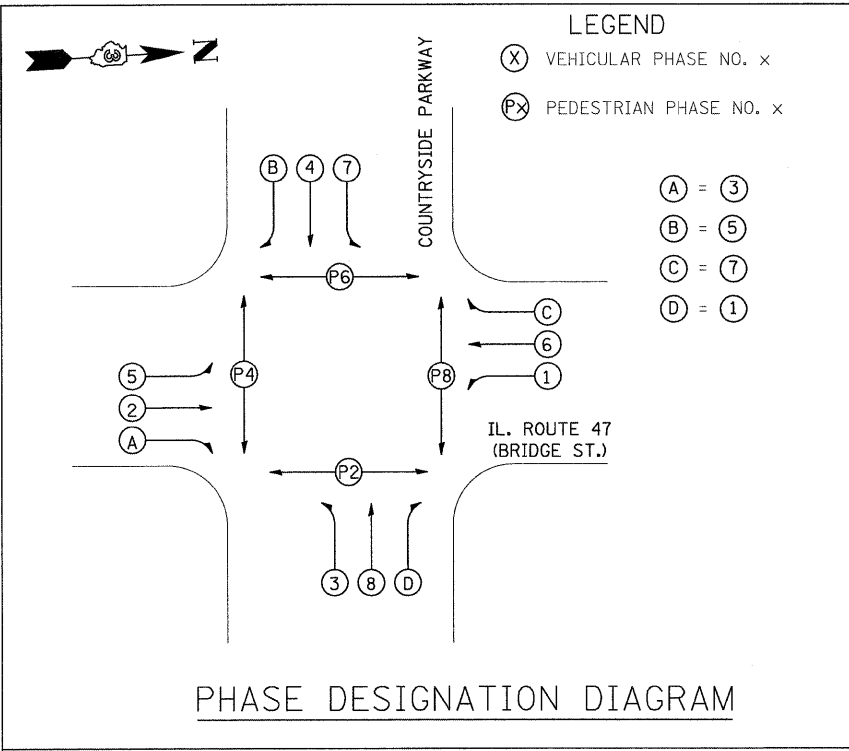


REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TEMP. SIGNAL INSTALLATION
 REMOVE EX. TRAFFIC EQUIPMENT
 IL. 47 (BRIDGE ST.)/
 COUNTRYSIDE PARKWAY
 SCALE: 1:250
 DATE: MARCH, 2010
 DRAWN BY: SL
 CHECKED BY: KC

PLOT DATE = 8/11/2011
 FILE NAME = H:\3122\design\618-619pc_r.mxd
 PLOT SCALE = 63990 mm / IN.
 USER NAME = JUREDESOR

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	*	KENDALL	931	619
STA. N/A		TO STA. N/A		
FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT				



REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT 1 EACH

THE FOLLOWING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED AND REMAIN THE PROPERTY OF THE CONTRACTOR, IF IT IS NOT BEING USED FOR THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.

- 4 EACH MAST ARM ASSEMBLY AND POLE
- 5 EACH SIGNAL POST

ALL REMAINING REMOVAL ITEMS EXCEPT AS SPECIFIED BELOW SHALL BE REMOVED AND DELIVERED BY THE CONTRACTOR TO THE CITY OF YORKVILLE, 610 TOWER LANE, YORKVILLE, IL.

THE FOLLOWING ITEMS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR OFF THE RIGHT-OF-WAY. THE SALVAGE VALUE OF THIS EQUIPMENT SHALL BE REFLECTED IN THE UNIT BID PRICE OF REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT.

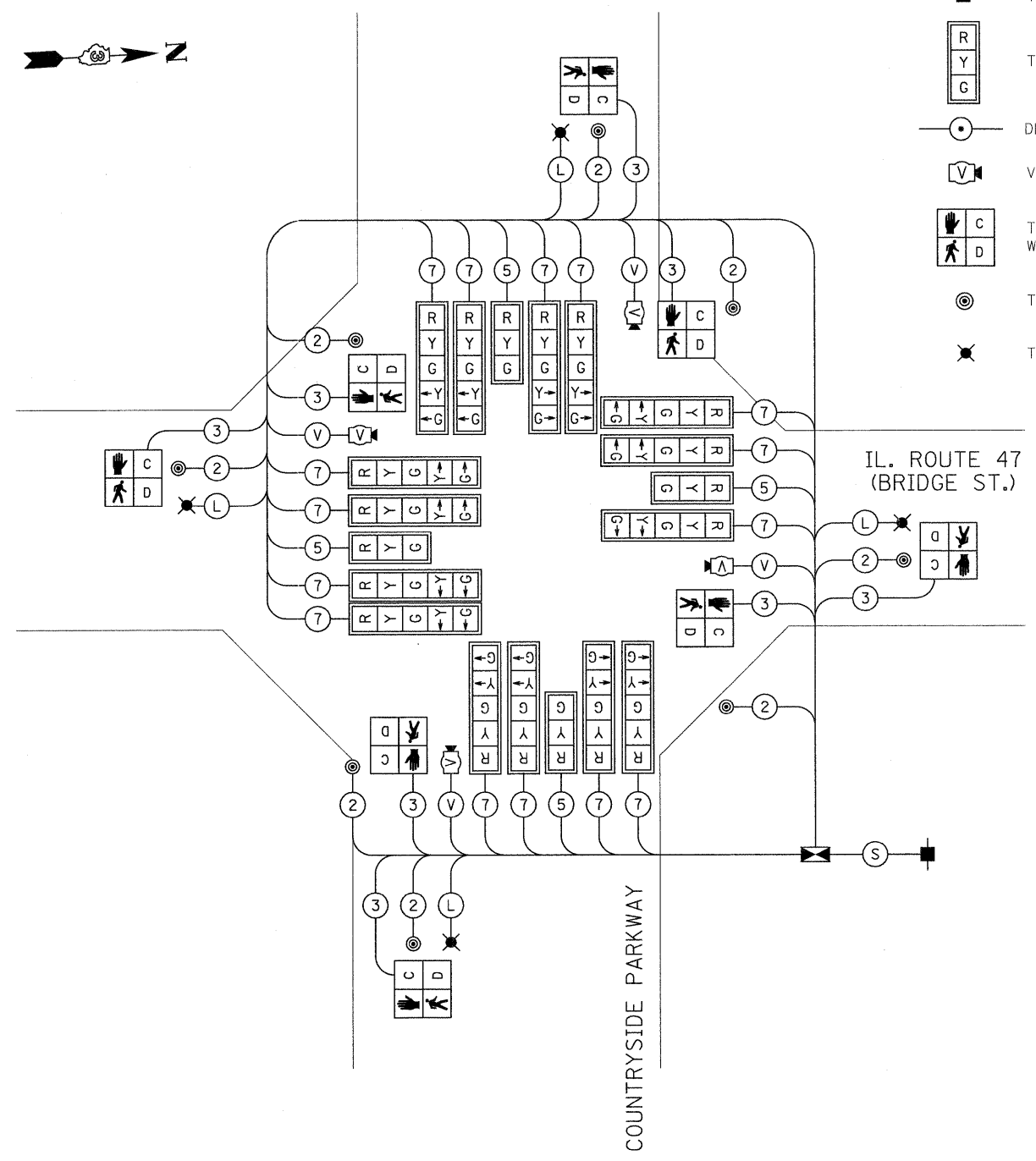
- 1 EACH SERVICE INSTALLATION
- ALL WIRES

SCHEDULE OF REMOVAL ITEMS

ITEM	LOCATION	UNIT	QUANTITIES
REMOVE EXISTING CONCRETE FOUNDATION	A, B, C, D, E, F, G, H, I, J	EACH	10
REMOVE EXISTING HANDHOLE	EH1, EH2, EH3, EH4 EH5, EH6, EH7, EH8	EACH	8

TEMPORARY CABLE DIAGRAM LEGEND

- TEMPORARY CONTROLLER
- TEMPORARY SERVICE INSTALLATION
- TEMPORARY TRAFFIC SIGNAL HEAD W/ BACKPLATE
- DENOTES NUMBER OF CONDUCTORS
- VIDEO DETECTION SYSTEM
- TEMPORARY PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN DISPLAY
- TEMPORARY PEDESTRIAN PUSH BUTTON
- TEMPORARY LUMINAIRE, SODIUM VAPOR, 400 WATT



- (V) **VIDEO CAMERA CABLE**
 6 PAIRS, TWISTED REQUIRED
 3 PAIRS CONDUCTOR FOR POWER - 24V AC (AC+, AC-, GND)
 1 PAIR DATA
 1 PAIR COMPOSITE VIDEO
 1 PAIR DETECTOR DATA
 OVERALL SHIELD MINIMUM 16AWG (PAIRS)
 (TO BE INCLUDED IN THE BID PRICE FOR VEHICLE VIDEO DETECTION SYSTEM)
- (S) **SERVICE CABLE**
 ELECTRIC CABLE IN CONDUIT, SERVICE, NO.6 2C
- (L) **LIGHTING CABLE**
 600V (XLP-TYPE USE) 3 - 1/C NO.10

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION PROPOSED TEMPORARY CABLE DIAGRAM IL. 47 (BRIDGE ST.)/ COUNTRYSIDE PARKWAY SCALE: NONE DATE: MARCH, 2010
NAME	DATE	
		DRAWN BY: SL CHECKED BY: KC

PLOT DATE = 8/11/2011
 FILE NAME = h:\5122\design\618-619op_rem.dgn
 PLOT SCALE = 63690 in / IN.
 USER NAME = JOSEPHESOF

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326		KENDALL	931	620
STA. N/A		TO STA. N/A		
FED. ROAD DIST. NO. 5		ILLINOIS FED. AID PROJECT		
*15CS, 13C, 10B, 1091R				

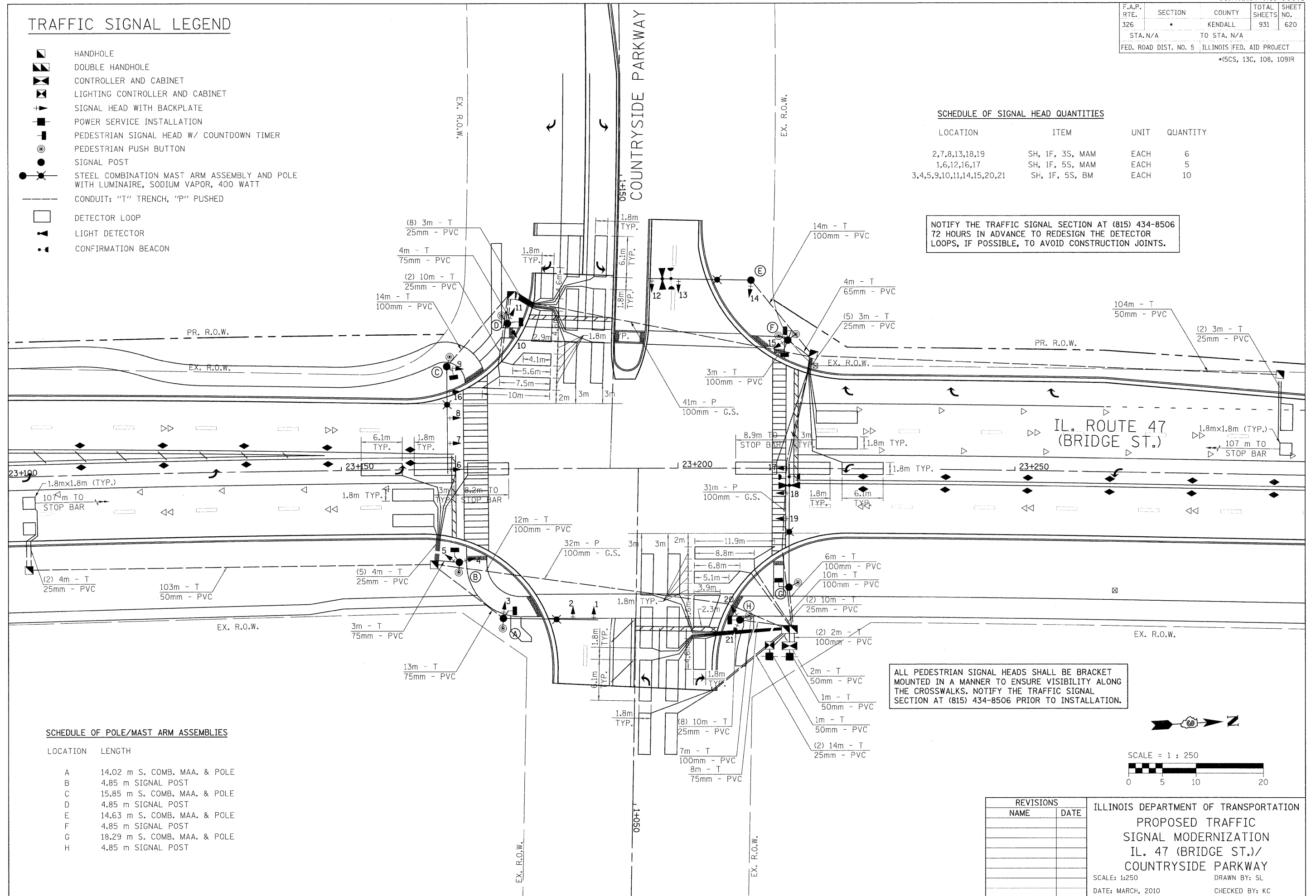
TRAFFIC SIGNAL LEGEND

- HANDHOLE
- DOUBLE HANDHOLE
- CONTROLLER AND CABINET
- LIGHTING CONTROLLER AND CABINET
- SIGNAL HEAD WITH BACKPLATE
- POWER SERVICE INSTALLATION
- PEDESTRIAN SIGNAL HEAD W/ COUNTDOWN TIMER
- PEDESTRIAN PUSH BUTTON
- SIGNAL POST
- STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE, SODIUM VAPOR, 400 WATT
- CONDUIT: "T" TRENCH, "P" PUSHED
- DETECTOR LOOP
- LIGHT DETECTOR
- CONFIRMATION BEACON

SCHEDULE OF SIGNAL HEAD QUANTITIES

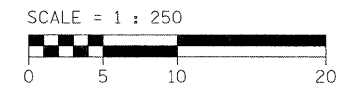
LOCATION	ITEM	UNIT	QUANTITY
2,7,8,13,18,19	SH, 1F, 3S, MAM	EACH	6
1,6,12,16,17	SH, 1F, 5S, MAM	EACH	5
3,4,5,9,10,11,14,15,20,21	SH, 1F, 5S, BM	EACH	10

NOTIFY THE TRAFFIC SIGNAL SECTION AT (815) 434-8506 72 HOURS IN ADVANCE TO REDESIGN THE DETECTOR LOOPS, IF POSSIBLE, TO AVOID CONSTRUCTION JOINTS.



IL. ROUTE 47 (BRIDGE ST.)

ALL PEDESTRIAN SIGNAL HEADS SHALL BE BRACKET MOUNTED IN A MANNER TO ENSURE VISIBILITY ALONG THE CROSSWALKS. NOTIFY THE TRAFFIC SIGNAL SECTION AT (815) 434-8506 PRIOR TO INSTALLATION.



SCHEDULE OF POLE/MAST ARM ASSEMBLIES

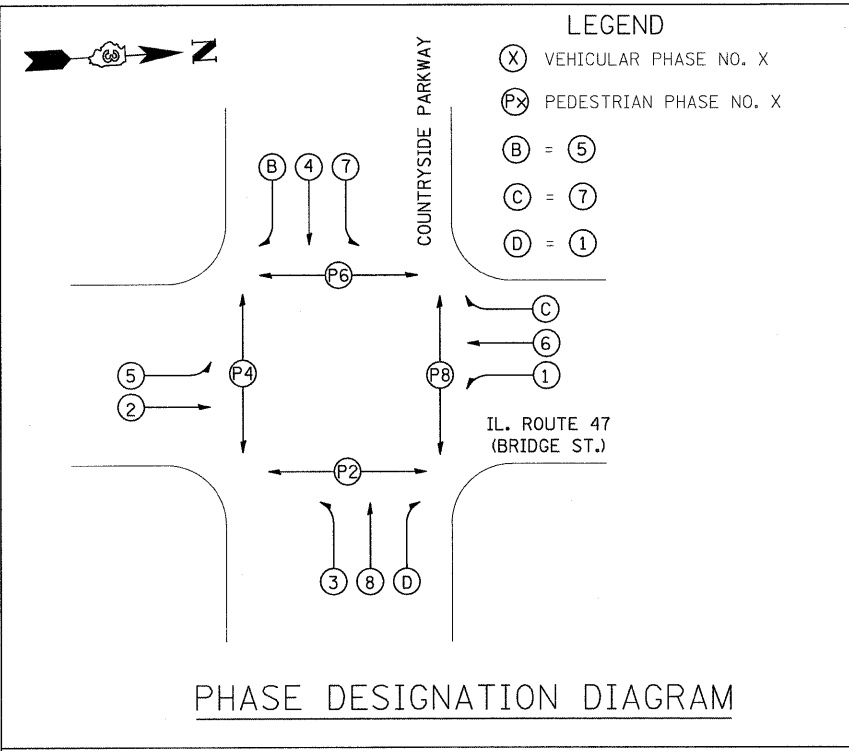
LOCATION	LENGTH
A	14.02 m S. COMB. MAA. & POLE
B	4.85 m SIGNAL POST
C	15.85 m S. COMB. MAA. & POLE
D	4.85 m SIGNAL POST
E	14.63 m S. COMB. MAA. & POLE
F	4.85 m SIGNAL POST
G	18.29 m S. COMB. MAA. & POLE
H	4.85 m SIGNAL POST

PLOT DATE = 6/11/2011
 FILE NAME = h:\15122\design\620op-pr-proj.dgn
 PLOT SCALE = 6:3000 IN. / IN.
 USER NAME = JBERNDESCR.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 PROPOSED TRAFFIC
 SIGNAL MODERNIZATION
 IL. 47 (BRIDGE ST.)/
 COUNTRYSIDE PARKWAY
 SCALE: 1:250
 DATE: MARCH, 2010
 DRAWN BY: SL
 CHECKED BY: KC

F.A.P. RTE. 326	SECTION	COUNTY KENDALL	TOTAL SHEETS 931	SHEET NO. 621
STA. N/A	TO STA. N/A			
FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT				
*GCS, 13C, 108, 1091R				

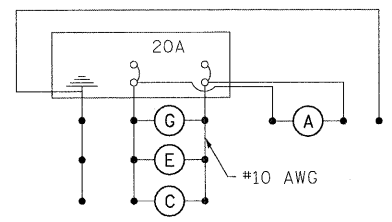


SCHEDULE OF QUANTITIES

DESCRIPTION	UNIT	QUANTITY
SERVICE INSTALLATION - GROUND MOUNTED	EACH	2
HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	5
DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	1
LUMINAIRE, SODIUM VAPOR, HOR. MOUNT, 400 WATT	EACH	4
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	10
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	5
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	21
INDUCTIVE LOOP DETECTOR	EACH	16
LIGHT DETECTOR	EACH	4
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	8
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	8
REMOVE EXISTING CONCRETE FOUNDATION	EACH	10
SIGN PANEL - TYPE 1	SQ M	1.8
SIGN PANEL - TYPE 2	SQ M	5.4
CONDUIT IN TRENCH 25mm DIA., PVC	METER	221
CONDUIT IN TRENCH 50mm DIA., PVC	METER	210
CONDUIT IN TRENCH 65mm DIA., PVC	METER	4
CONDUIT IN TRENCH 75mm DIA., PVC	METER	28
CONDUIT IN TRENCH 100mm DIA., PVC	METER	70
CONDUIT PUSHED, 100mm DIA., GALVANIZED STEEL	METER	104
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	METER	792
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	METER	1044
TRENCH AND BACKFILL FOR ELECTRICAL WORK	METER	533
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	METER	516
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	METER	522
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	METER	479
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	METER	1177
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14, 1-PAIR	METER	2457
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	METER	8
TRAFFIC SIGNAL POST, GALVANIZED STEEL 4.85 METER	EACH	4
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 14.02 METER	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 14.63 METER	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 15.85 METER	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 18.29 METER	EACH	1
CONCRETE FOUNDATION, TYPE A	METER	4.0
CONCRETE FOUNDATION, TYPE C (SPECIAL)	METER	1.1
CONCRETE FOUNDATION, TYPE E 1060mm DIAMETER	METER	19.8
DETECTOR LOOP, TYPE 1	METER	813
ELECTRIC CABLE IN CONDUIT NO. 20, 3/C, TWISTED, SHIELDED	METER	480
LIGHTING CONTROLLER, SPECIAL	EACH	1

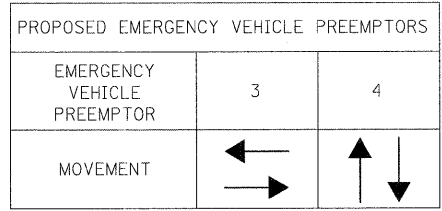
PROPOSED CABLE DIAGRAM LEGEND

- CONTROLLER AND CABINET
- LIGHTING CONTROLLER AND CABINET
- SERVICE INSTALLATION
- TRAFFIC SIGNAL HEAD WITH BACKPLATE
- DENOTES NUMBER OF CONDUCTORS
- LUMINAIRE, SODIUM VAPOR, 400 WATT
- PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN DISPLAY
- PEDESTRIAN PUSH BUTTON
- DETECTOR LOOP
- DETECTOR LOOP SYSTEM
- GROUND ROD AT HANDHOLE OR DOUBLE HANDHOLE
- GROUND ROD AT POST (P) OR MAST ARM POLE (MA)
- GROUND ROD AT ELECTRIC SERVICE INSTALLATION
- GROUND ROD AT CONTROLLER
- LIGHT DETECTOR
- CONFIRMATION BEACON
- SERVICE CABLE
- ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C
- LIGHTING CABLE
- 600V (XLP-TYPE USE) 3 - 1/C NO. 10

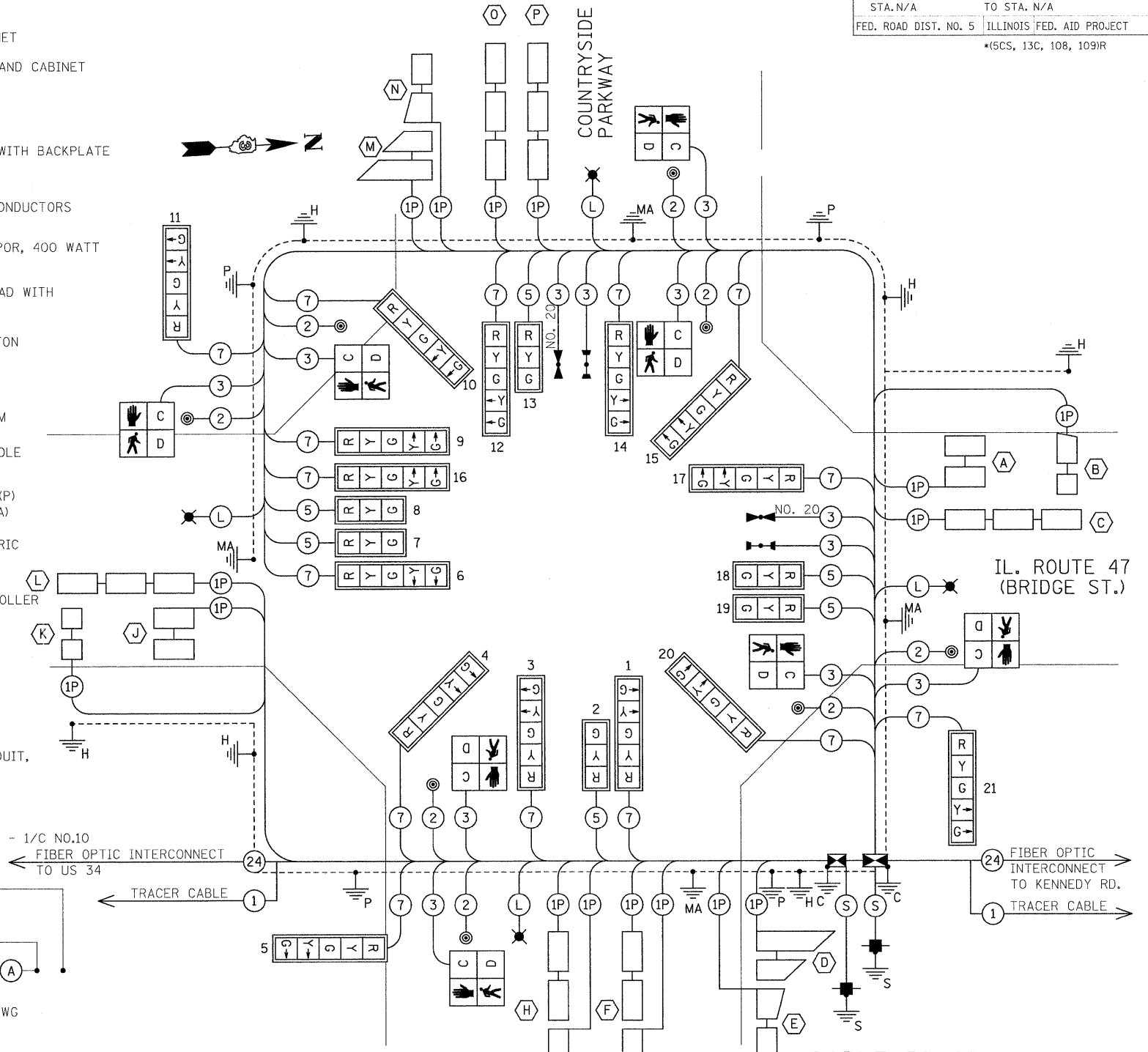


LIGHTING CIRCUIT DIAGRAM

AGENCY RESPONSIBLE FOR ENERGY CHARGES:
CITY OF YORKVILLE
CONTRACTOR PAYS ALL ENERGY CHARGES
UNTIL PROJECT IS ACCEPTED



EMERGENCY VEHICLE PREEMPTION SEQUENCE



CONTROLLER SPECIFIED: ECONOLITE ASC-3/2100 TS-2 TYPE 2
PEDESTRIAN PUSH-BUTTON: 4 EVR ROUND MODEL

NOTIFY THE TRAFFIC SIGNAL SECTION AT (815) 434-8506
72 HOURS IN ADVANCE TO REDESIGN THE DETECTOR
LOOPS, IF POSSIBLE, TO AVOID CONSTRUCTION JOINTS.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PHASE DIAGRAM, CABLE DIAGRAM
SCHEDULE OF QUANTITIES
IL. 47 (BRIDGE ST.)/
COUNTRYSIDE PARKWAY
SCALE: NONE DRAWN BY: SL
DATE: MARCH, 2010 CHECKED BY: KC

PLOT DATE = 8/11/2011
FILE NAME = h:\6122\design\621\op-ebb.e.dgn
PLOT SCALE = 6:3000 m / IN.
USER NAME = JBERNDESCI

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326		KENDALL	931	622
STA. N/A		TO STA. N/A		
FED. ROAD DIST. NO. 5		ILLINOIS FED. AID PROJECT		

NOTIFY THE TRAFFIC SIGNAL SECTION AT (815) 434-8506 72 HOURS IN ADVANCE TO REDESIGN THE DETECTOR LOOPS, IF POSSIBLE, TO AVOID CONSTRUCTION JOINTS.

ELECTRICAL LOAD CHART

IL ROUTE 47

INDICATION	NUMBER	WATTAGE EACH	BURN TIME (%)
RED	11	12	60
YELLOW	11	32	5
GREEN	11	12	35
YELLOW ARROW	7	12	5
GREEN ARROW	7	11	10
↑	4	7	5
↓	4	7	95

COUNTRYSIDE PARKWAY

INDICATION	NUMBER	WATTAGE EACH	BURN TIME (%)
RED	10	12	70
YELLOW	10	32	5
GREEN	10	12	25
YELLOW ARROW	8	12	5
GREEN ARROW	8	11	10
↑	4	7	5
↓	4	7	95

TRAFFIC SIGNAL CABINET

ITEM	NUMBER	WATTAGE EACH	BURN TIME (%)
CONTROLLER	1	6	100
INDUCTIVE LOOP DETECTOR	16	1.5	100
UNINTERRUPTIBLE POWER SUPPLY	1	50	100
LIGHT DETECTOR AMPLIFIER	1	1.5	100

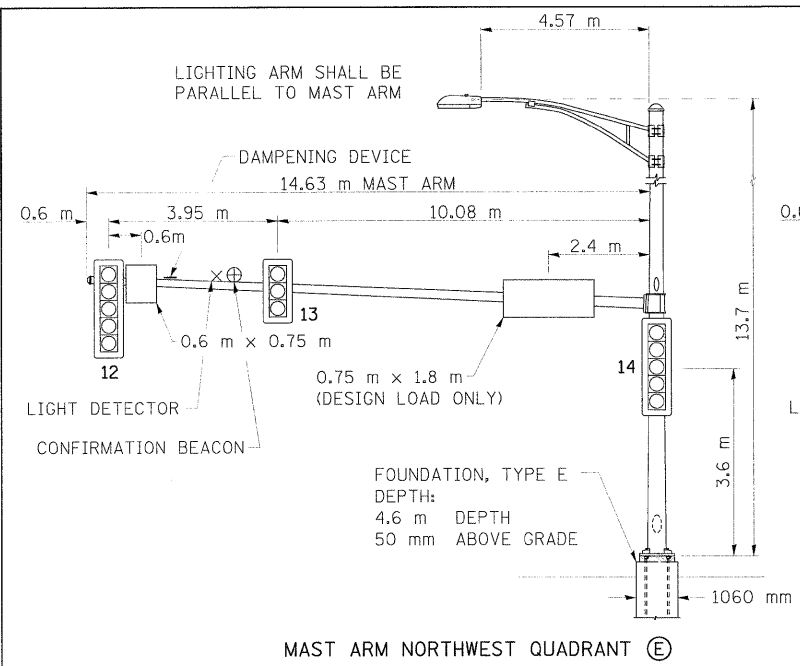
HIGHWAY LIGHTING

ITEM	NUMBER	WATTAGE EACH	BURN TIME (%)
CONTROLLER	1	6	100
LUMINAIRE	4	400	45

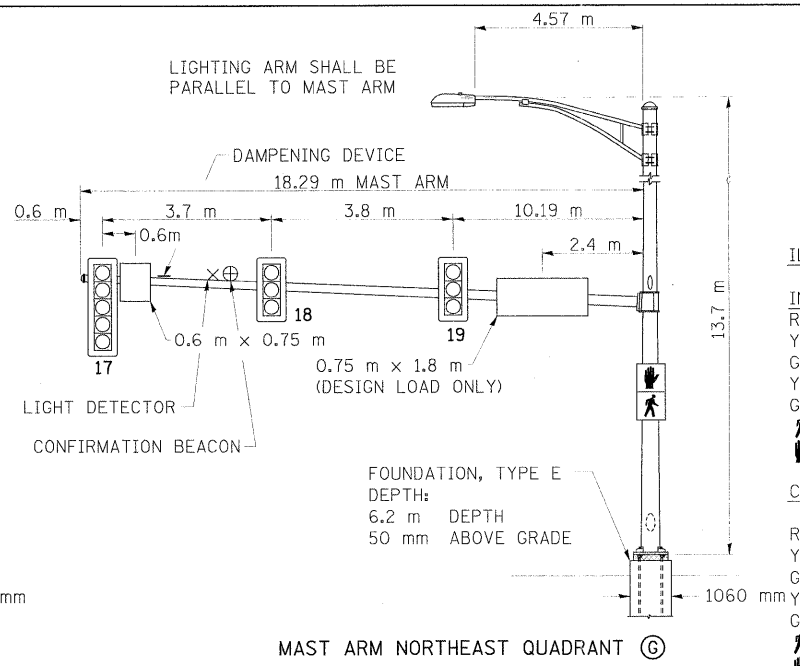
DETECTOR LOOP INDUCTANCE CHART

DETECTOR LOOP SYSTEM	TURNS PER LOOP	INDUCTANCE READING (MICROHENRIES)	FREQUENCY (HERTZ)	J PIN STATUS
A	4	553	25,936	OFF
B	6	619	24,531	ON
C	4	813	21,391	ON
D	4	710	22,905	OFF
E	4	479	27,887	ON
F	4	529	26,518	ON
G	4	529	26,518	ON
H	4	529	26,518	ON
I	4	529	26,518	ON
J	4	562	25,728	OFF
K	6	620	24,511	ON
L	4	822	21,273	ON
M	4	669	23,597	OFF
N	4	509	27,052	ON
O	4	843	21,007	ON
P	4	843	21,007	ON

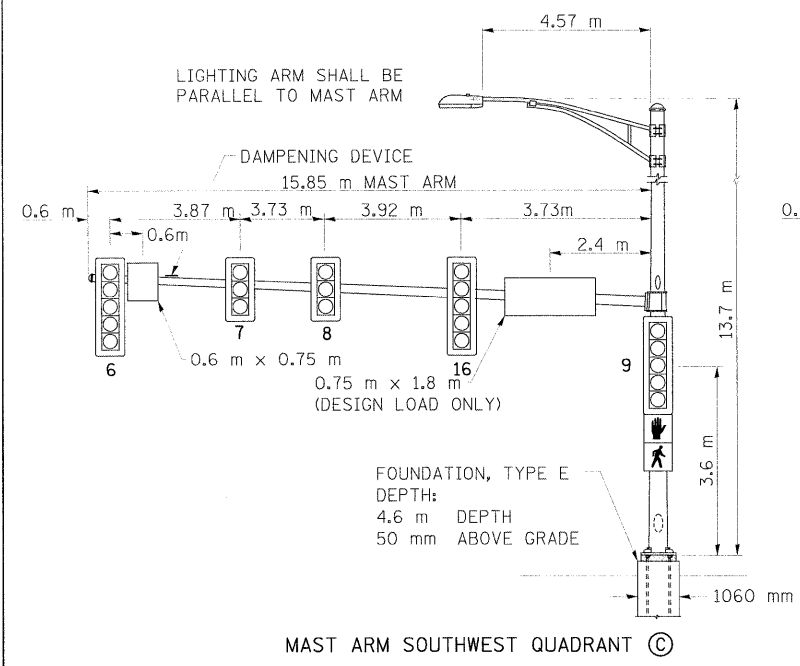
GRANULAR SOILS ARE EXPECTED TO BE ENCOUNTERED AT THIS INTERSECTION.



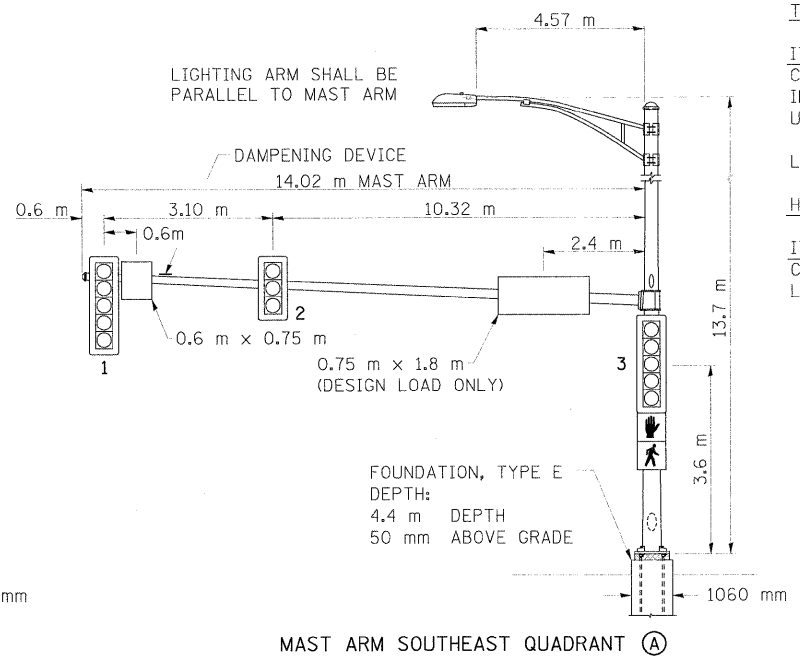
MAST ARM NORTHWEST QUADRANT (E)



MAST ARM NORTHEAST QUADRANT (C)



MAST ARM SOUTHWEST QUADRANT (C)



MAST ARM SOUTHEAST QUADRANT (A)

- NOTES:
- WORD "GRADE" IS TO BE INTERPRETED AS TOP OF CURB. TOP OF FOUNDATION SHALL NOT BE EXPOSED MORE THAN 100 mm ABOVE THE SURROUNDING GROUND.
 - ALL SIGNAL HEADS SHALL HAVE BACKPLATES.
 - FOUNDATION SHOULD BE 50mm ABOVE GRADE OR 0.35m ABOVE CENTERLINE OF ROADWAY, WHICHEVER IS HIGHER.

PEDESTRIAN CROSSING SIGN DETAIL

COUNT-DOWN PEDESTRIAN SIGN R10-3e TO BE USED.
 8 REQUIRED.
 DIMENSIONS: 230mm x 380mm (TYP.)
 LEGEND AND BORDER: NON-REFLECTORIZED BLACK
 BACKGROUND: RETROREFLECTIVE WHITE
 NUMBERS AND SYMBOLS: RETROREFLECTIVE ORANGE

ONE SIGN SHALL BE PROVIDED FOR EACH PUSH-BUTTON. ORIENTATION OF DIRECTIONAL ARROWS TO BE DETERMINED BY PUSH-BUTTON LOCATION.

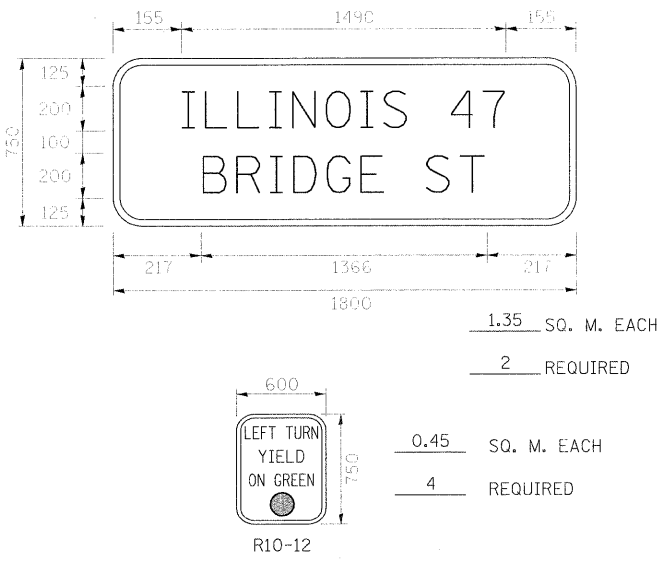
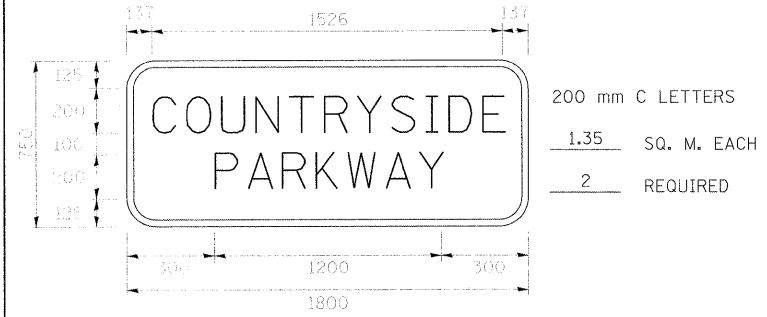
ALL MOUNTING HARDWARE SHALL BE STAINLESS STEEL CONSTRUCTION. ALL MOUNTING BOLTS SHALL BE HEX HEAD.

MATERIALS AND INSTALLATION OF THIS SIGN SHALL BE INCLUDED IN THE COST OF PEDESTRIAN PUSH-BUTTON.

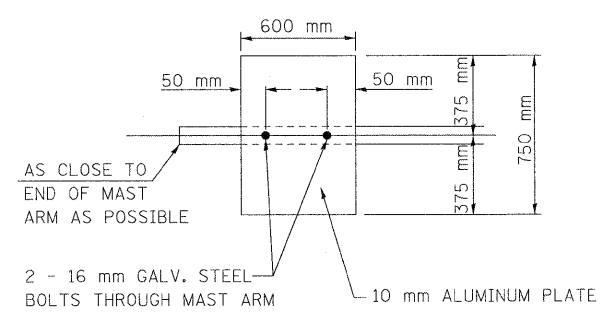
STREET SIGN DETAIL

THESE STREET NAME SIGNS SHALL BE PLACED ON THE MAST ARMS PARALLEL TO THE RESPECTIVE ROUTE AS DIRECTED BY THE ENGINEER.

STREET NAME SIGNS:
 1. TYPE ZZ SHEETING REQUIRED
 2. WHITE/GREEN BACKGROUND
 3. STYLE (d)-15 mm BORDER
 4. 200 mm SERIES D LETTERS REQUIRED UNLESS OTHERWISE SHOWN
 5. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN



NOTE:
 DAMPENING DEVICE SHALL CONSIST OF A 600mm X 750mm TYPE 1, UNPAINTED ALUMINUM SIGN STOCK MOUNTED HORIZONTALLY ON TOP OF MAST ARM WITH THE 750mm LENGTH PERPENDICULAR TO THE ARM. COST OF THE DAMPENING DEVICE IS INCLUDED IN THE MAST ARM PAY ITEM.



DAMPENING PLATE DETAIL (TOP VIEW) INCIDENTAL TO MAST ARM QUANTITY












REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 MAST ARM LOADING DIAGRAM
 ELECTRICAL LOAD CHART
 SIGN DETAILS
 IL. 47 (BRIDGE ST.)/
 COUNTRYSIDE PARKWAY
 SCALE: NONE
 DATE: MARCH, 2010
 DRAWN BY: SL
 CHECKED BY: KC







PLOT DATE = 8/11/2011
 FILE NAME = h:\3122\design\622cp_mast.dgn
 PLOT SCALE = 6:3500 mm / 7 IN.
 USER NAME = JUSERDESCR.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	*	KENDALL	931	623
STA. N/A		TO STA. N/A		
FED. ROAD DIST. NO. 5		ILLINOIS FED. AID PROJECT		
*15CS, 13C, 10B, 1091R				

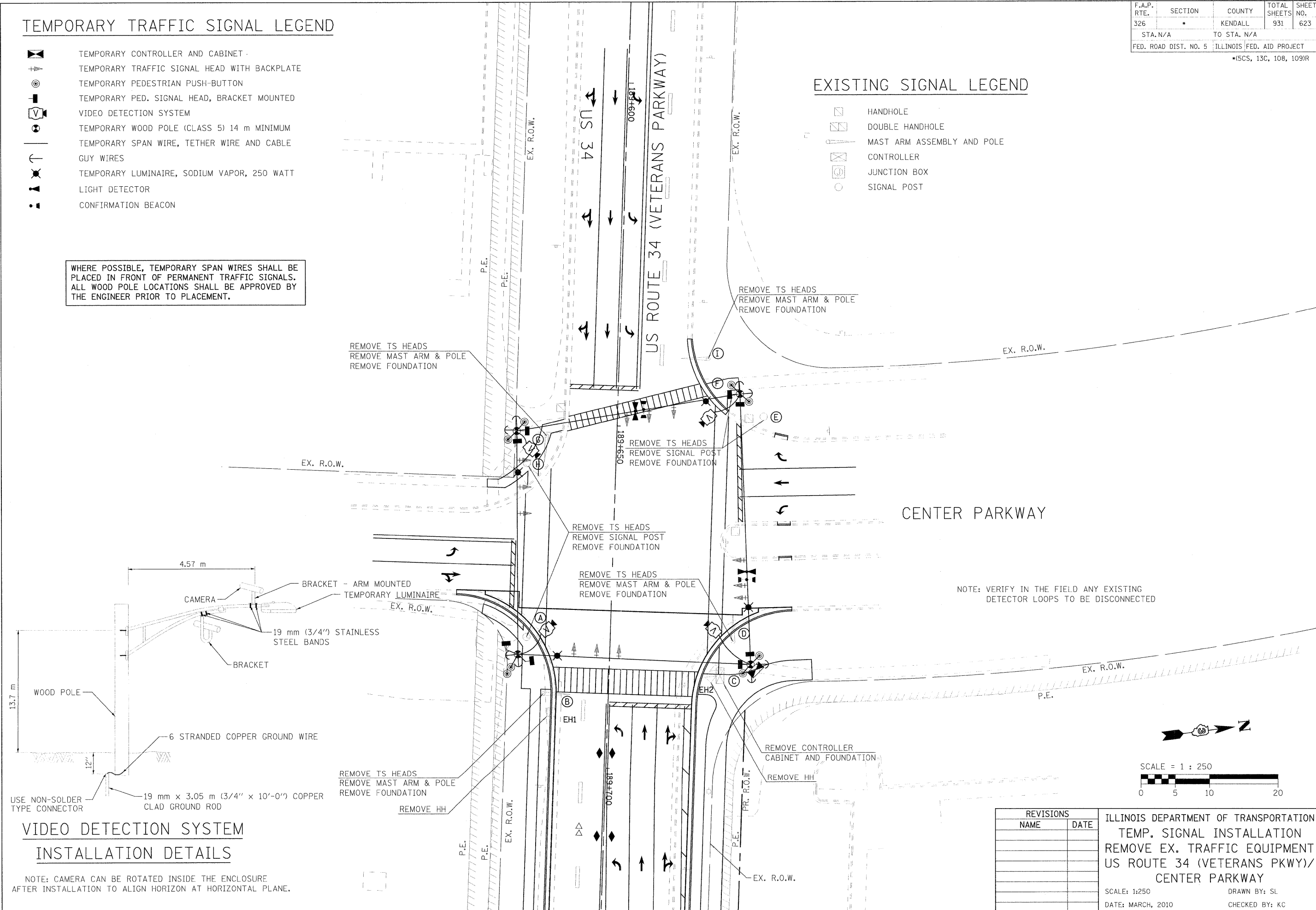
TEMPORARY TRAFFIC SIGNAL LEGEND

-  TEMPORARY CONTROLLER AND CABINET
-  TEMPORARY TRAFFIC SIGNAL HEAD WITH BACKPLATE
-  TEMPORARY PEDESTRIAN PUSH-BUTTON
-  TEMPORARY PED. SIGNAL HEAD, BRACKET MOUNTED
-  VIDEO DETECTION SYSTEM
-  TEMPORARY WOOD POLE (CLASS 5) 14 m MINIMUM
-  TEMPORARY SPAN WIRE, TETHER WIRE AND CABLE
-  GUY WIRES
-  TEMPORARY LUMINAIRE, SODIUM VAPOR, 250 WATT
-  LIGHT DETECTOR
-  CONFIRMATION BEACON

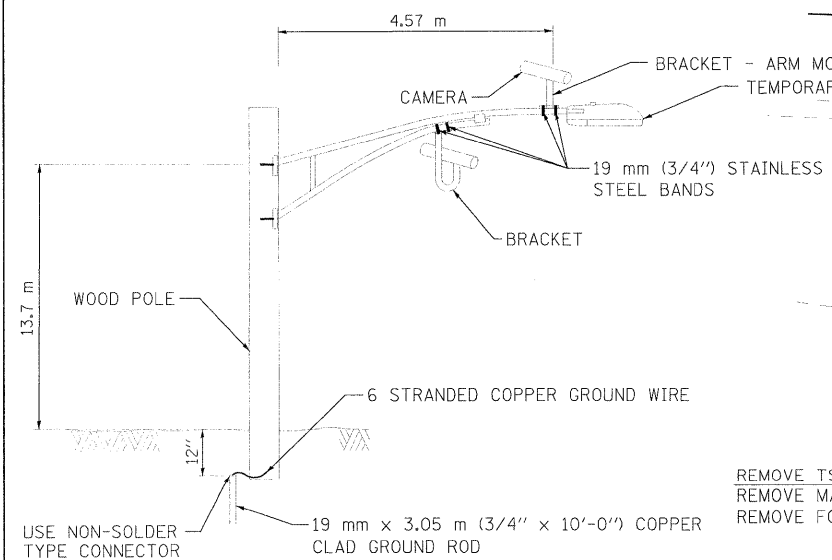
EXISTING SIGNAL LEGEND

-  HANDHOLE
-  DOUBLE HANDHOLE
-  MAST ARM ASSEMBLY AND POLE
-  CONTROLLER
-  JUNCTION BOX
-  SIGNAL POST

WHERE POSSIBLE, TEMPORARY SPAN WIRES SHALL BE PLACED IN FRONT OF PERMANENT TRAFFIC SIGNALS. ALL WOOD POLE LOCATIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO PLACEMENT.

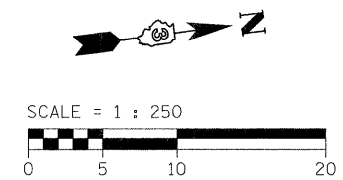


NOTE: VERIFY IN THE FIELD ANY EXISTING DETECTOR LOOPS TO BE DISCONNECTED



VIDEO DETECTION SYSTEM INSTALLATION DETAILS

NOTE: CAMERA CAN BE ROTATED INSIDE THE ENCLOSURE AFTER INSTALLATION TO ALIGN HORIZON AT HORIZONTAL PLANE.



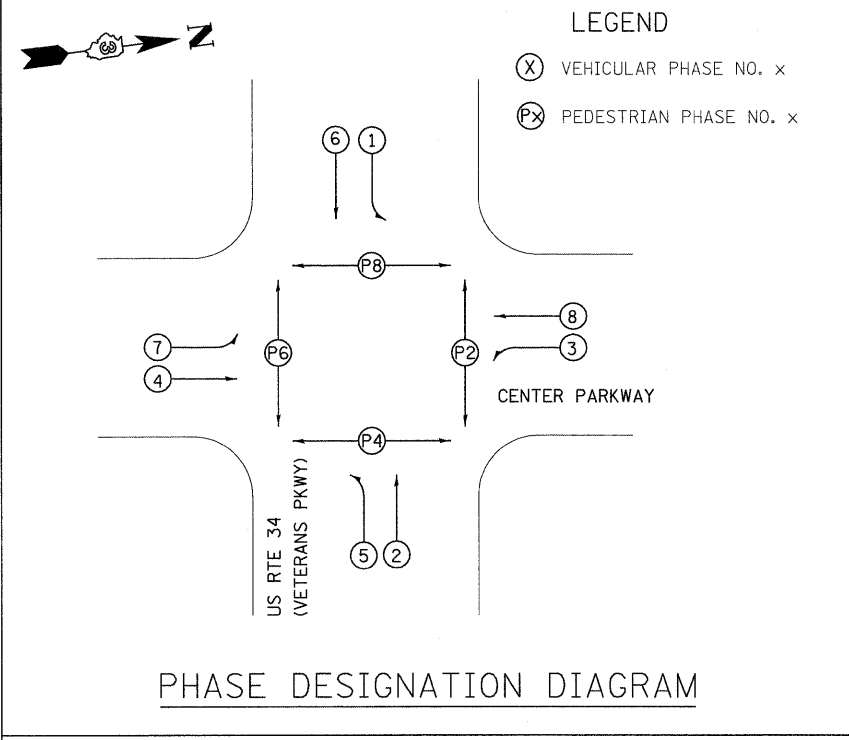
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TEMP. SIGNAL INSTALLATION
 REMOVE EX. TRAFFIC EQUIPMENT
 US ROUTE 34 (VETERANS PKWY)/
 CENTER PARKWAY
 SCALE: 1:250
 DATE: MARCH, 2010
 DRAWN BY: SL
 CHECKED BY: KC

PLOT DATE = 8/11/2011
 FILE NAME = h:\15122\design\623-624center_parkway_remdgn
 PLOT SCALE = 6:3000 m / IN.
 USER NAME = JUSERDESCR.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	*	KENDALL	931	624
STA. N/A		TO STA. N/A		
FED. ROAD DIST. NO. 5		ILLINOIS FED. AID PROJECT		

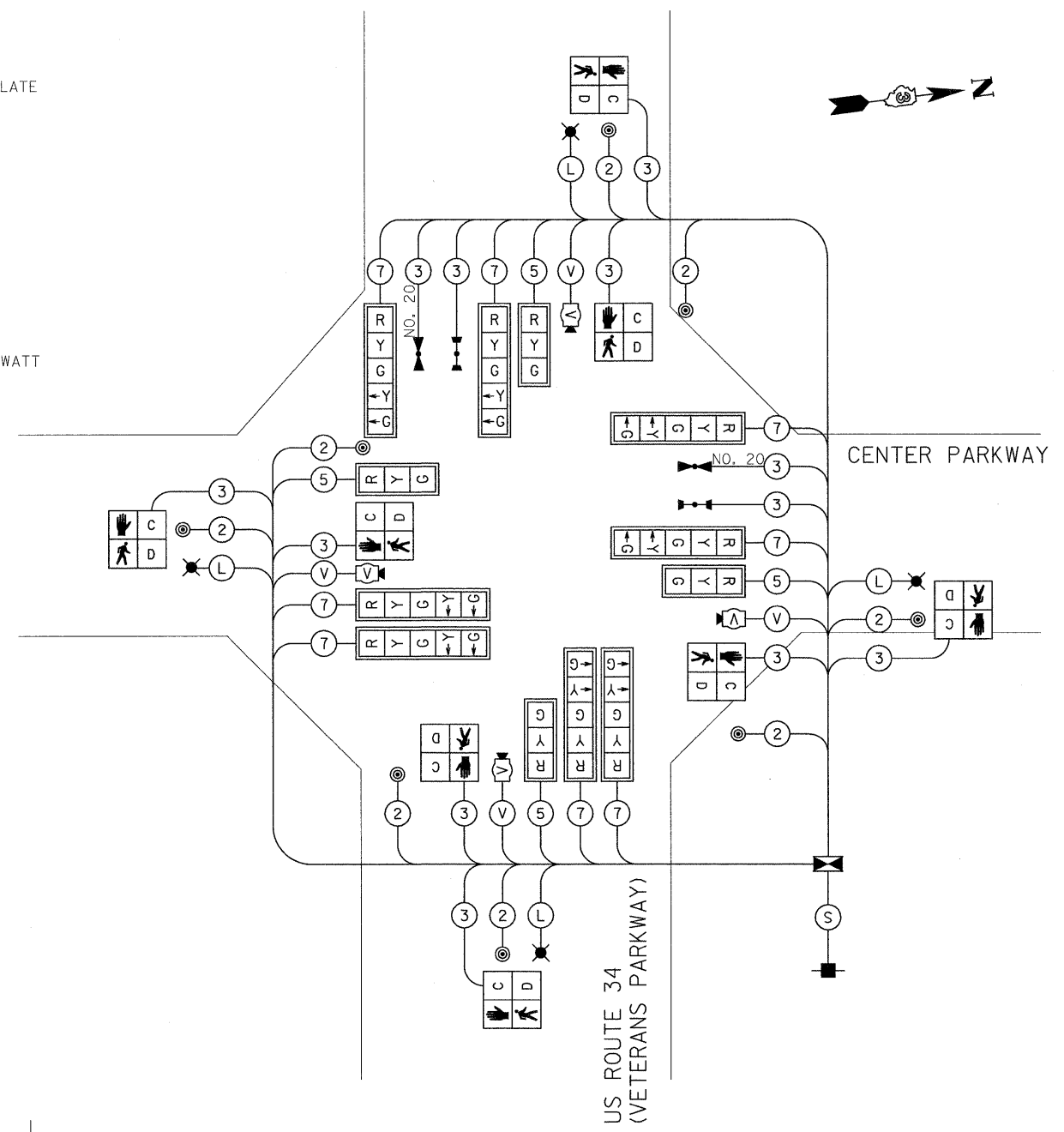
*15CS, 13C, 10B, 1091R



TEMPORARY CABLE DIAGRAM LEGEND

- ☒ TEMPORARY CONTROLLER
- TEMPORARY SERVICE INSTALLATION
- RYG TEMPORARY TRAFFIC SIGNAL HEAD W/ BACKPLATE
- DENOTES NUMBER OF CONDUCTORS
- V VIDEO DETECTION SYSTEM
- CD TEMPORARY PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN DISPLAY
- ⊙ TEMPORARY PEDESTRIAN PUSH BUTTON
- ☼ TEMPORARY LUMINAIRE, SODIUM VAPOR, 250 WATT
- ▲ LIGHT DETECTOR
- CONFIRMATION BEACON

- V VIDEO CAMERA CABLE
6 PAIRS, TWISTED REQUIRED
3 PAIRS CONDUCTOR FOR POWER - 24V AC (AC+, AC-, GND)
1 PAIR DATA
1 PAIR COMPOSITE VIDEO
1 PAIR DETECTOR DATA
OVERALL SHIELD MINIMUM 16AWG (PAIRS) (TO BE INCLUDED IN THE BID PRICE FOR VEHICLE VIDEO DETECTION SYSTEM)
- S SERVICE CABLE
ELECTRIC CABLE IN CONDUIT, SERVICE, NO.6 2C
- L LIGHTING CABLE
600V (XLP-TYPE USE) 3 - 1/C NO.10



REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT 1 EACH

THE FOLLOWING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED AND REMAIN THE PROPERTY OF THE CONTRACTOR, IF IT IS NOT BEING USED FOR THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.

- 4 EACH MAST ARM ASSEMBLY AND POLE
- 4 EACH SIGNAL POST
- 12 EACH SIGNAL HEAD
- ALL PEDESTRIAN SIGNAL HEADS AND NON-CONFORMING PUSH-BUTTONS

ALL REMAINING REMOVAL ITEMS EXCEPT AS SPECIFIED BELOW SHALL BE REMOVED AND DELIVERED BY THE CONTRACTOR TO THE CITY OF YORKVILLE, 610 TOWER LANE, YORKVILLE, IL.

THE FOLLOWING ITEMS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR OFF THE RIGHT-OF-WAY. THE SALVAGE VALUE OF THIS EQUIPMENT SHALL BE REFLECTED IN THE UNIT BID PRICE OF REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT.

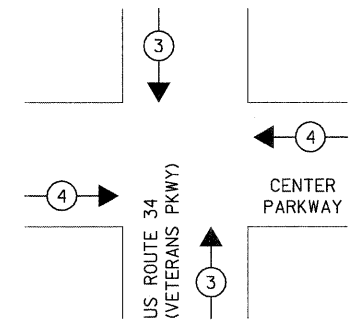
- 1 EACH SERVICE INSTALLATION
- ALL WIRES

SCHEDULE OF REMOVAL ITEMS

ITEM	LOCATION	UNIT	QUANTITIES
REMOVE EXISTING CONCRETE FOUNDATION	A, B, C, D, E, F, G, H, I	EACH	9
REMOVE EXISTING HANDHOLE	EH1, EH2	EACH	2

TEMPORARY EMERGENCY VEHICLE PREEMPTORS

EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	↑ ↓	← →



REVISIONS

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PROPOSED TEMPORARY CABLE DIAGRAM
 US ROUTE 34 (VETERANS PKWY)/ CENTER PARKWAY

SCALE: NONE
 DATE: MARCH, 2010

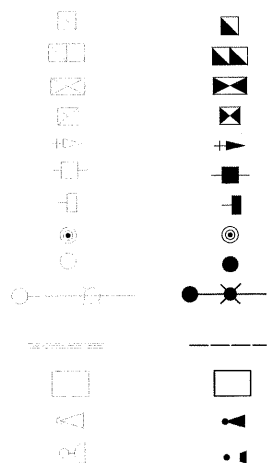
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 CHECKED BY: KC

PLOT DATE = 8/11/2011
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 PLOT SCALE = 6.3500 in / 1 in.
 USER NAME = JOSEPHESOR.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326		KENDALL	931	625
STA. N/A		TO STA. N/A		
FED. ROAD DIST. NO. 5		ILLINOIS FED. AID PROJECT		
*15CS, 13C, 10B, 1091R				

TRAFFIC SIGNAL LEGEND

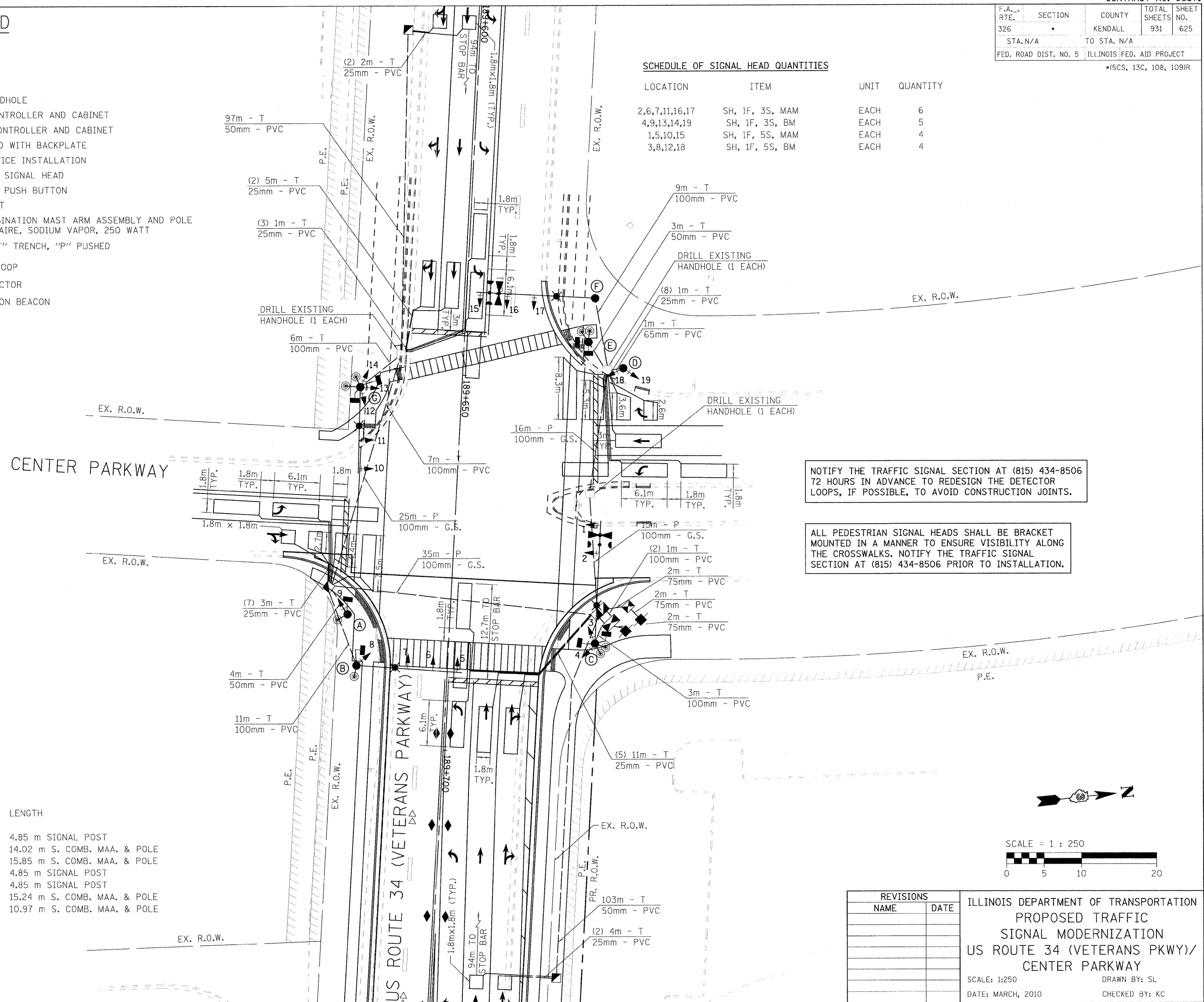
EXISTING PROPOSED



- HANDHOLE
- DOUBLE HANDHOLE
- TRAFFIC CONTROLLER AND CABINET
- LIGHTING CONTROLLER AND CABINET
- SIGNAL HEAD WITH BACKPLATE
- POWER SERVICE INSTALLATION
- PEDESTRIAN SIGNAL HEAD
- PEDESTRIAN PUSH BUTTON
- SIGNAL POST
- STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE, SODIUM VAPOR, 250 WATT
- CONDUIT: "T" TRENCH, "P" PUSHED
- DETECTOR LOOP
- LIGHT DETECTOR
- CONFIRMATION BEACON

SCHEDULE OF SIGNAL HEAD QUANTITIES

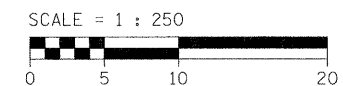
LOCATION	ITEM	UNIT	QUANTITY
2,6,7,11,16,17	SH, 1F, 3S, MAM	EACH	6
4,9,13,14,19	SH, 1F, 3S, BM	EACH	5
1,5,10,15	SH, 1F, 5S, MAM	EACH	4
3,8,12,18	SH, 1F, 5S, BM	EACH	4



NOTIFY THE TRAFFIC SIGNAL SECTION AT (815) 434-8506 72 HOURS IN ADVANCE TO REDESIGN THE DETECTOR LOOPS, IF POSSIBLE, TO AVOID CONSTRUCTION JOINTS.

ALL PEDESTRIAN SIGNAL HEADS SHALL BE BRACKET MOUNTED IN A MANNER TO ENSURE VISIBILITY ALONG THE CROSSWALKS. NOTIFY THE TRAFFIC SIGNAL SECTION AT (815) 434-8506 PRIOR TO INSTALLATION.

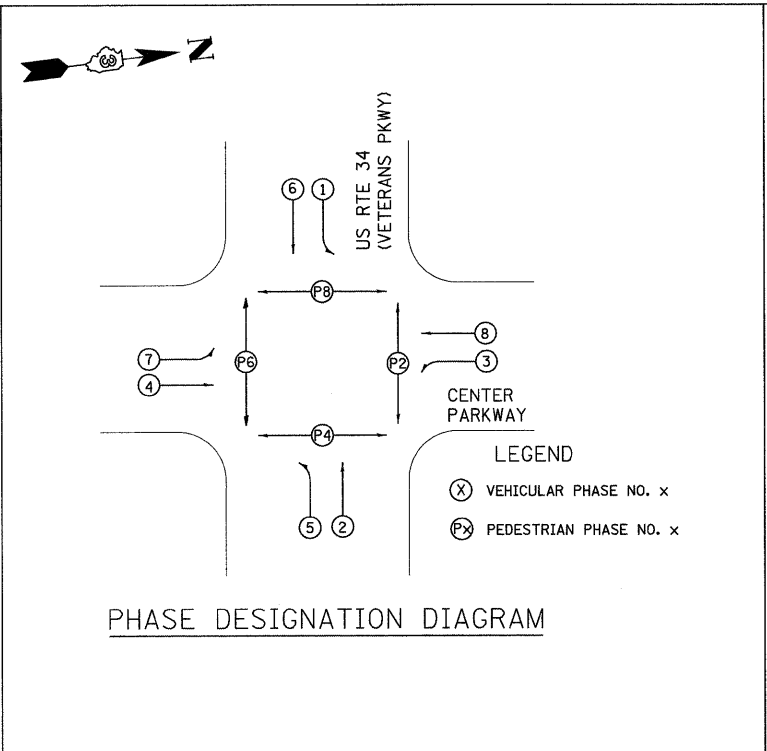
LOCATION	LENGTH
A	4.85 m SIGNAL POST
B	14.02 m S. COMB. MAA. & POLE
C	15.85 m S. COMB. MAA. & POLE
D	4.85 m SIGNAL POST
E	4.85 m SIGNAL POST
F	15.24 m S. COMB. MAA. & POLE
G	10.97 m S. COMB. MAA. & POLE



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 PROPOSED TRAFFIC
 SIGNAL MODERNIZATION
 US ROUTE 34 (VETERANS PKWY)/
 CENTER PARKWAY
 SCALE: 1:250 DRAWN BY: SL
 DATE: MARCH, 2010 CHECKED BY: KC

PLOT DATE = 8/11/2011
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 PLOT SCALE = 6:3500 m / IN.
 USER NAME = JUSERDESCR

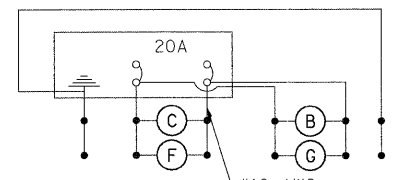


SCHEDULE OF QUANTITIES

DESCRIPTION	UNIT	QUANTITY
SERVICE INSTALLATION - GROUND MOUNTED	EACH	2
HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	3
DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	1
LUMINAIRE, SODIUM VAPOR, HOR. MOUNT, 250 WATT	EACH	4
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTIBLE POWER SUPPLY, EXTENDED	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
DRILL EXISTING HANDHOLE	EACH	3
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	19
INDUCTIVE LOOP DETECTOR	EACH	13
LIGHT DETECTOR	EACH	4
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	8
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	2
REMOVE EXISTING CONCRETE FOUNDATION	EACH	9
SIGN PANEL - TYPE 1	SQ M	4.0
SIGN PANEL - TYPE 2	SQ M	5.2
CONDUIT IN TRENCH 25mm DIA., PVC	METER	109
CONDUIT IN TRENCH 50mm DIA., PVC	METER	207
CONDUIT IN TRENCH 65mm DIA., PVC	METER	1
CONDUIT IN TRENCH 75mm DIA., PVC	METER	6
CONDUIT IN TRENCH 100mm DIA., PVC	METER	38
CONDUIT PUSHED, 100mm DIA., GALVANIZED STEEL	METER	91
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	METER	600
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	METER	683
TRENCH AND BACKFILL FOR ELECTRICAL WORK	METER	359
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	METER	397
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	METER	413
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	METER	685
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	METER	486
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14, 1-PAIR	METER	1727
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	METER	10
TRAFFIC SIGNAL POST, GALVANIZED STEEL 4.85 METER	EACH	3
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 10.97 METER	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 14.02 METER	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 15.24 METER	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 15.85 METER	EACH	1
CONCRETE FOUNDATION, TYPE A	METER	3.0
CONCRETE FOUNDATION, TYPE C (SPECIAL)	METER	1.1
CONCRETE FOUNDATION, TYPE E 900mm DIAMETER	METER	16.6
DETECTOR LOOP, TYPE 1	METER	555
ELECTRIC CABLE IN CONDUIT NO. 20, 3/C, TWISTED, SHIELDED	METER	404
LIGHTING CONTROLLER, SPECIAL	EACH	1

PROPOSED CABLE DIAGRAM LEGEND

- PROPOSED
- TRAFFIC CONTROLLER AND CABINET
 - LIGHTING CONTROLLER AND CABINET
 - SERVICE INSTALLATION
 - TRAFFIC SIGNAL HEAD WITH BACKPLATE
 - DENOTES NUMBER OF CONDUCTORS
 - LUMINAIRE, SODIUM VAPOR, 250 WATT
 - PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN DISPLAY
 - PEDESTRIAN PUSH BUTTON
 - DETECTOR LOOP
 - DETECTOR LOOP SYSTEM
 - GROUND ROD AT HANDHOLE OR DOUBLE HANDHOLE
 - GROUND ROD AT POST (P) OR MAST ARM POLE (MA)
 - GROUND ROD AT ELECTRIC SERVICE INSTALLATION
 - GROUND ROD AT CONTROLLER
 - LIGHT DETECTOR
 - CONFIRMATION BEACON



LIGHTING CIRCUIT DIAGRAM

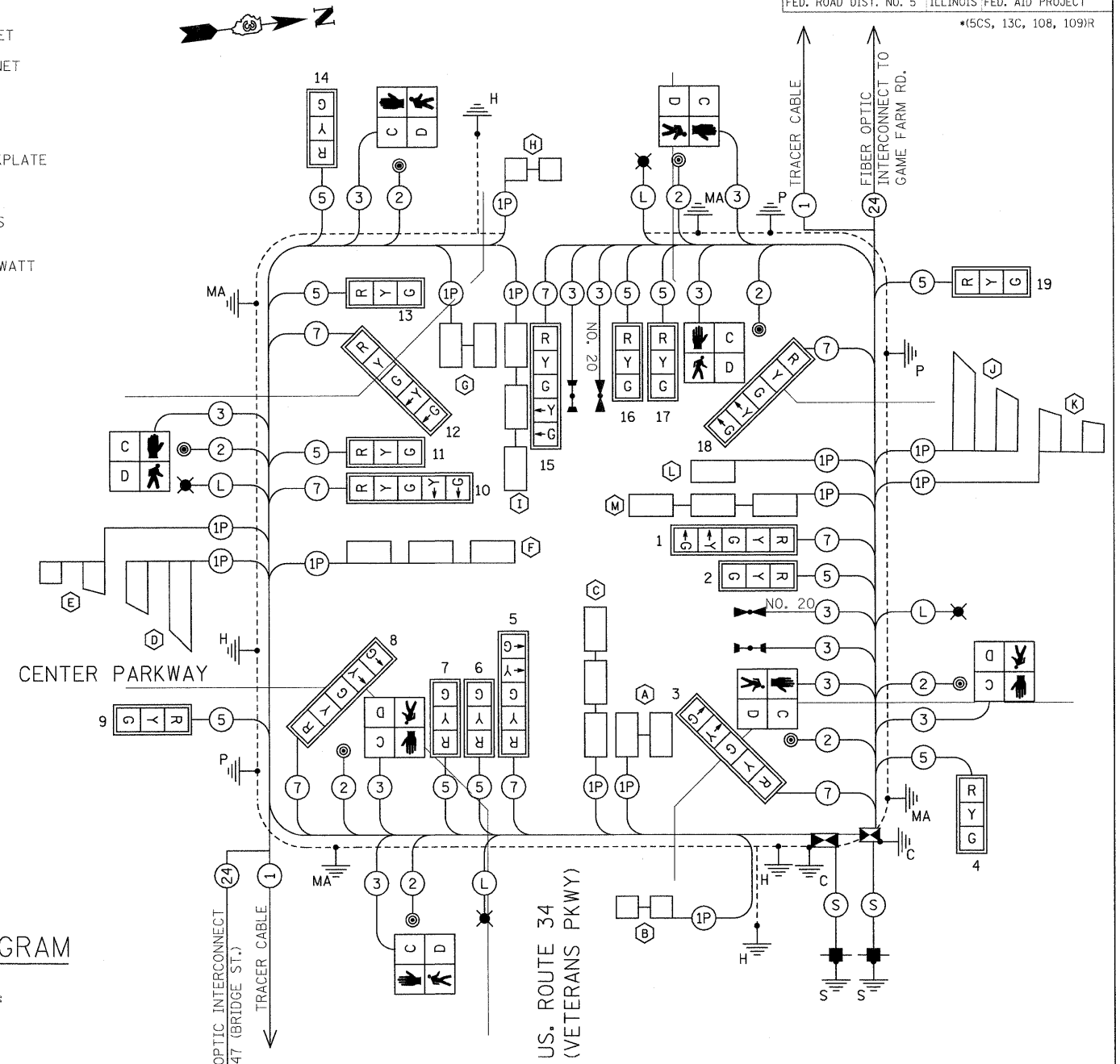
AGENCY RESPONSIBLE FOR ENERGY CHARGES:
 CITY OF YORKVILLE
 CONTRACTOR PAYS ALL ENERGY CHARGES
 UNTIL PROJECT IS ACCEPTED

- (S) **SERVICE CABLE**
 ELECTRIC CABLE IN CONDUIT,
 SERVICE, NO.6 2C
- (L) **LIGHTING CABLE**
 600V (XLP-TYPE USE) 3 - 1/C NO.10

PROPOSED EMERGENCY VEHICLE PREEMPTORS

EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	↑ ↓	← →

EMERGENCY VEHICLE PREEMPTION SEQUENCE



CABLE DIAGRAM

CONTROLLER SPECIFIED: ECONOLITE ASC-3/2100 TS-2 TYPE 2
 PEDESTRIAN PUSH-BUTTON: 4 EVR ROUND MODEL

NOTIFY THE TRAFFIC SIGNAL SECTION AT (815) 434-8506
 72 HOURS IN ADVANCE TO REDESIGN THE DETECTOR
 LOOPS, IF POSSIBLE, TO AVOID CONSTRUCTION JOINTS.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 PHASE DIAGRAM, CABLE DIAGRAM
 SCHEDULE OF QUANTITIES
 US ROUTE 34 (VETERANS PKWY)/
 CENTER PARKWAY

SCALE: NONE DRAWN BY: SL
 DATE: MARCH, 2010 CHECKED BY: KC

PLOT DATE = 8/11/2011
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 PLOT SCALE = 6:3600 m / IN.
 USER NAME = JUSERDESCR.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	*	KENDALL	931	627
STA. N/A		TO STA. N/A		
FED. ROAD DIST. NO. 5		ILLINOIS FED. AID PROJECT		

ELECTRICAL LOAD CHART

US ROUTE 34

INDICATION	NUMBER	WATTAGE EACH	BURN TIME (%)
RED	10	12	60
YELLOW	10	32	5
GREEN	10	12	35
YELLOW ARROW	4	12	5
GREEN ARROW	4	11	10
↑	4	7	5
↓	4	7	95

CENTER PARKWAY

RED	9	12	60
YELLOW	9	32	5
GREEN	9	12	35
YELLOW ARROW	4	12	5
GREEN ARROW	4	11	10
↑	4	7	5
↓	4	7	95

TRAFFIC SIGNAL CABINET

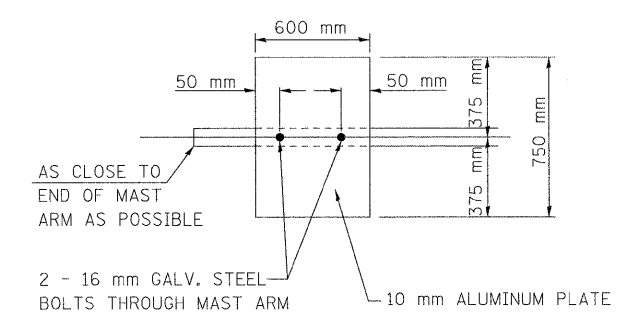
ITEM	NUMBER	WATTAGE EACH	BURN TIME (%)
CONTROLLER	1	6	100
INDUCTIVE LOOP DETECTOR	13	1.5	100
UNINTERRUPTABLE POWER SUPPLY	1	50	100
LIGHT DETECTOR AMPLIFIER	1	1.5	100

HIGHWAY LIGHTING

ITEM	NUMBER	WATTAGE EACH	BURN TIME (%)
CONTROLLER	1	6	100
LUMINAIRE	4	250	45

- NOTES:
- WORD "GRADE" IS TO BE INTERPRETED AS TOP OF CURB. TOP OF FOUNDATION SHALL NOT BE EXPOSED MORE THAN 100 mm ABOVE THE SURROUNDING GROUND.
 - ALL SIGNAL HEADS SHALL HAVE BACKPLATES.
 - FOUNDATION SHOULD BE 50mm ABOVE GRADE OR 0.35m ABOVE CENTERLINE OF ROADWAY, WHICHEVER IS HIGHER.

NOTE: DAMPENING DEVICE SHALL CONSIST OF A 600mm X 750mm TYPE 1, UNPAINTED ALUMINUM SIGN STOCK MOUNTED HORIZONTALLY ON TOP OF MAST ARM WITH THE 750mm LENGTH PERPENDICULAR TO THE ARM. COST OF THE DAMPENING DEVICE IS INCLUDED IN THE MAST ARM PAY ITEM.



PEDESTRIAN CROSSING SIGN DETAIL

COUNT-DOWN PEDESTRIAN SIGN R10-3e TO BE USED.

8 REQUIRED.

DIMENSIONS: 230mm x 380mm (TYP.)
 LEGEND AND BORDER: NON-REFLECTORIZED BLACK
 BACKGROUND: RETROREFLECTIVE WHITE
 NUMBERS AND SYMBOLS: RETROREFLECTIVE ORANGE

ONE SIGN SHALL BE PROVIDED FOR EACH PUSH-BUTTON. ORIENTATION OF DIRECTIONAL ARROWS TO BE DETERMINED BY PUSH-BUTTON LOCATION.

ALL MOUNTING HARDWARE SHALL BE STAINLESS STEEL CONSTRUCTION. ALL MOUNTING BOLTS SHALL BE HEX HEAD.

MATERIALS AND INSTALLATION OF THIS SIGN SHALL BE INCLUDED IN THE COST OF PEDESTRIAN PUSH-BUTTON.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 MAST ARM LOADING DIAGRAM
 ELECTRICAL LOAD CHART
 SIGN DETAILS
 US ROUTE 34 (VETERANS PKWY)/
 CENTER PARKWAY

SCALE: NONE
 DATE: MARCH, 2010
 DRAWN BY: SL
 CHECKED BY: KC

DETECTOR LOOP INDUCTANCE CHART

DETECTOR LOOP SYSTEM	TURNS PER LOOP	INDUCTANCE READING (MICROHENRIES)	FREQUENCY (HERTZ)	J PIN STATUS
A	4	529	26,518	OFF
B	5	438	29,163	ON
C	4	789	21,714	ON
D	4	514	26,920	OFF
E	5	431	29,399	ON
F	4	808	21,457	ON
G	4	573	25,480	OFF
H	6	624	24,433	ON
I	4	833	21,132	ON
J	4	569	25,586	OFF
K	4	341	33,051	ON
L	4	284	36,192	ON
M	4	804	21,510	ON

GRANULAR SOILS ARE EXPECTED TO BE ENCOUNTERED AT THIS INTERSECTION.

NOTIFY THE TRAFFIC SIGNAL SECTION AT (815) 434-8506 72 HOURS IN ADVANCE TO REDESIGN THE DETECTOR LOOPS, IF POSSIBLE, TO AVOID CONSTRUCTION JOINTS.

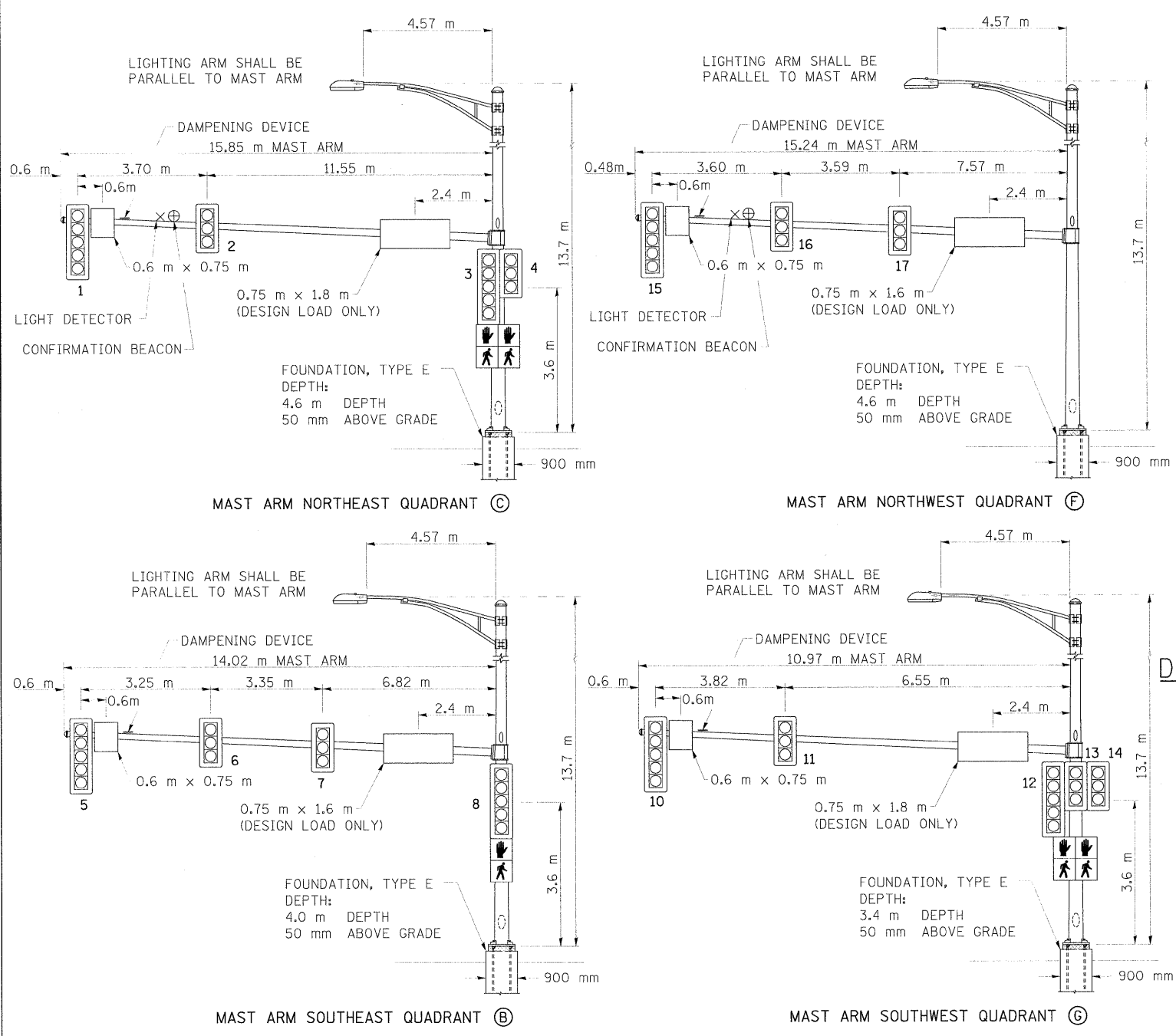
NOTE: TRAILBLAZER SIGNS AS SHOWN SHALL BE PLACED ON MAST ARM POSTS AS DIRECTED BY THE ENGINEER.

EAST 0.18 SQ. M. EACH
 1 REQUIRED

M3-4 SIGN
 600 x 300

34 0.36 SQ. M. EACH
 1 REQUIRED

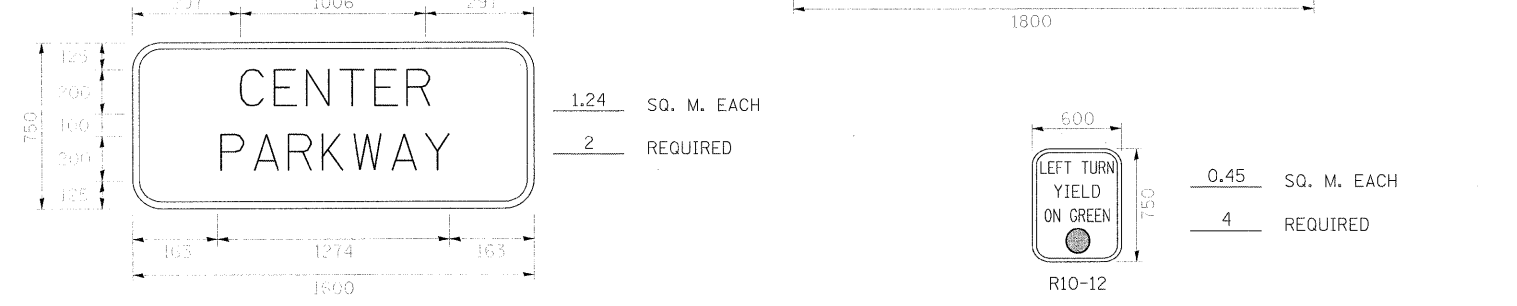
M1-4 SIGN
 600 x 600



STREET SIGN DETAIL

THESE STREET NAME SIGNS SHALL BE PLACED ON THE MAST ARMS PARALLEL TO THE RESPECTIVE ROUTE AS DIRECTED BY THE ENGINEER.

- STREET NAME SIGNS:
- TYPE ZZ SHEETING REQUIRED
 - WHITE/GREEN BACKGROUND
 - STYLE (d)-15 mm BORDER
 - 200 mm SERIES D LETTERS EXCEPT "VETERANS PKWY" USE SERIES C 150 mm
 - ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN











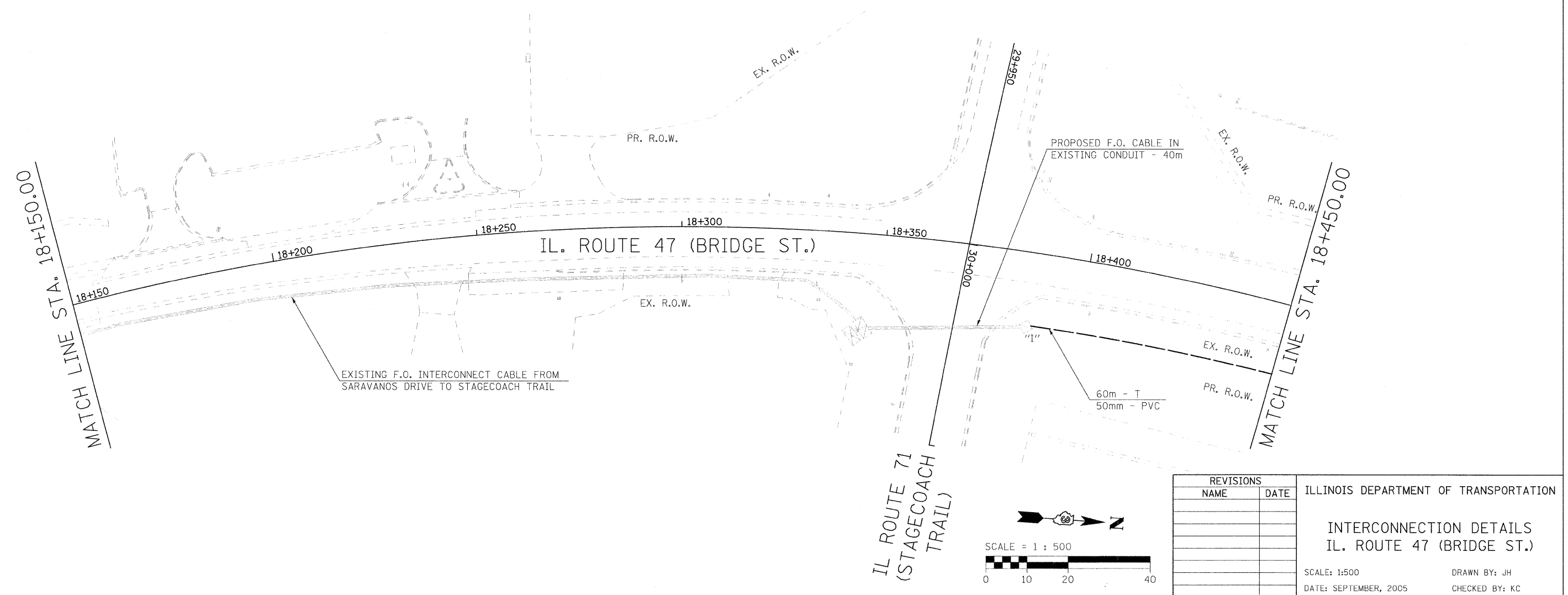
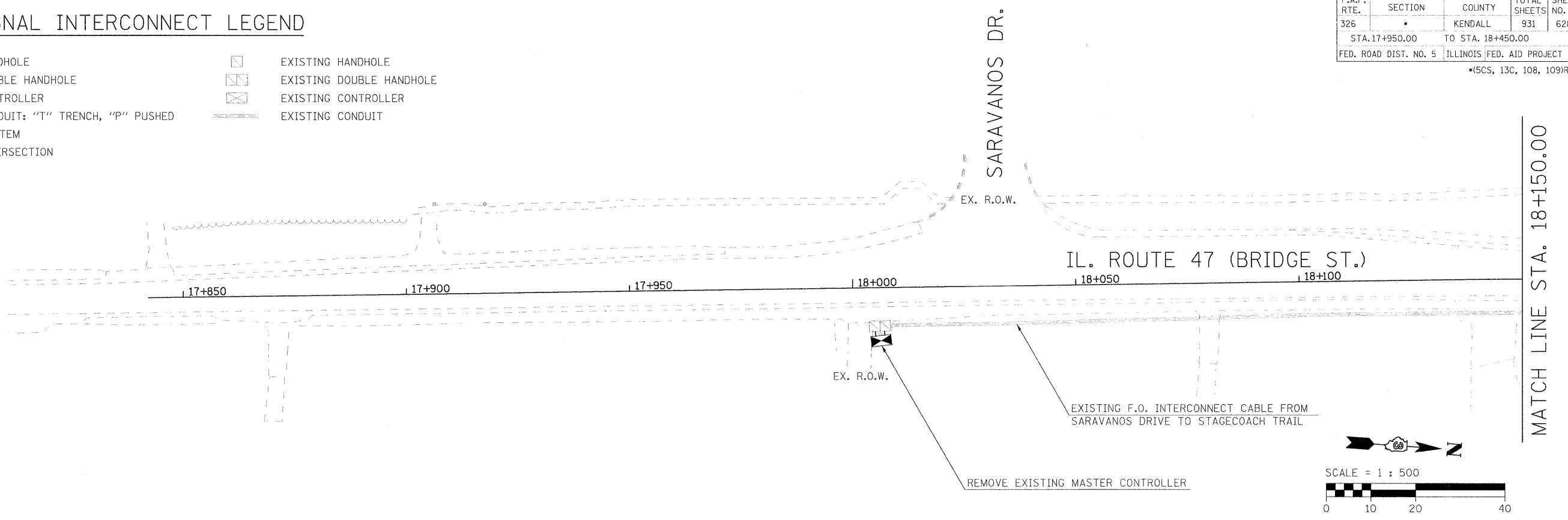
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 USER NAME = JOSEPHESOR.

SIGNAL INTERCONNECT LEGEND

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	*	KENDALL	931	628
STA. 17+950.00		TO STA. 18+450.00		
FED. ROAD DIST. NO. 5		ILLINOIS FED. AID PROJECT		

*15CS, 13C, 10B, 109R

-  PR. HANDHOLE
-  PR. DOUBLE HANDHOLE
-  PR. CONTROLLER
-  PR. CONDUIT: "T" TRENCH, "P" PUSHED
- "S" "S" SYSTEM
- "I" "I" INTERSECTION
-  EXISTING HANDHOLE
-  EXISTING DOUBLE HANDHOLE
-  EXISTING CONTROLLER
-  EXISTING CONDUIT













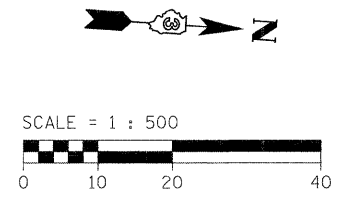
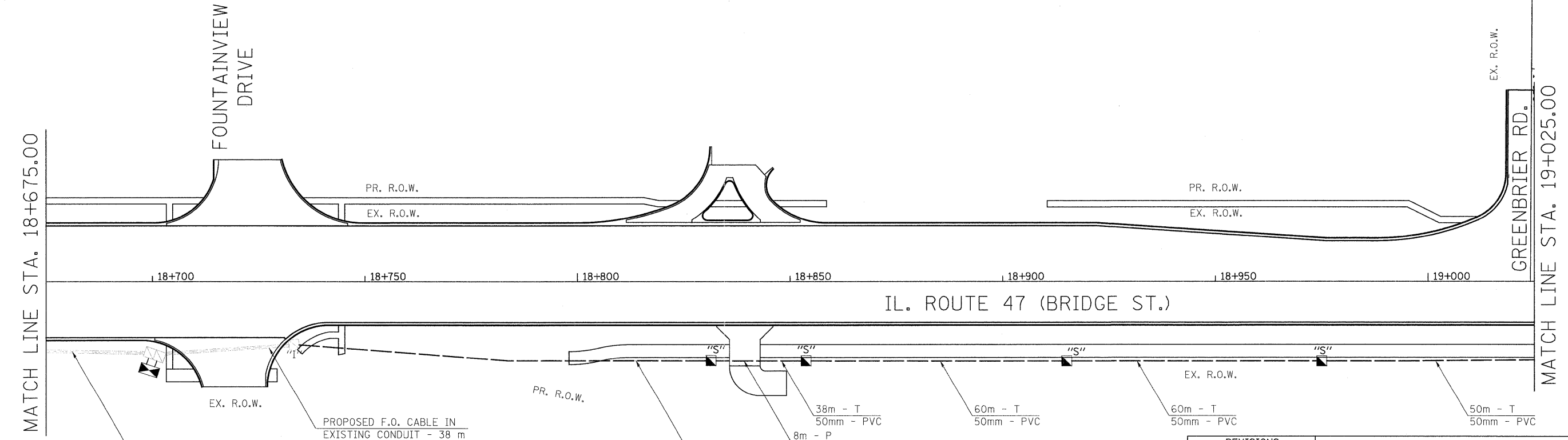
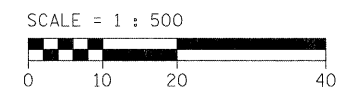
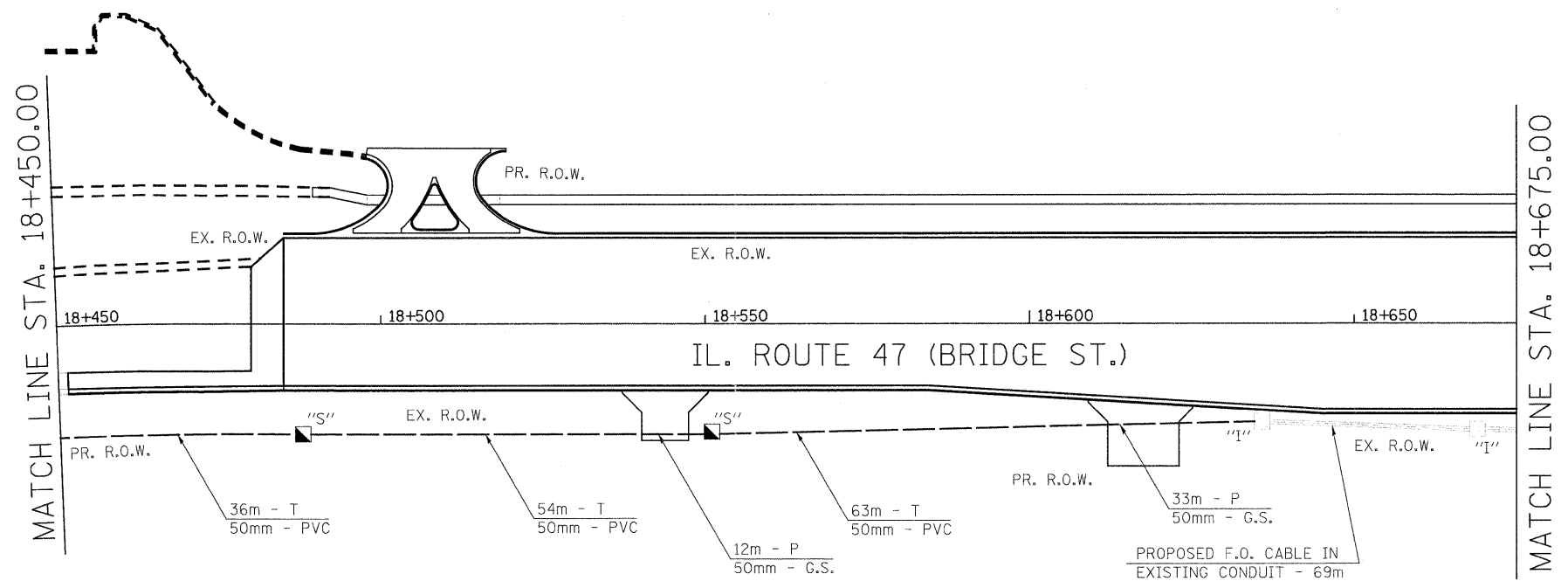
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		INTERCONNECTION DETAILS IL. ROUTE 47 (BRIDGE ST.)

SCALE: 1:500 DRAWN BY: JH
DATE: SEPTEMBER, 2005 CHECKED BY: KC

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326		KENDALL	931	629
STA. 18+450.00		TO STA. 19+025.00		
FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT				
*15CS, 13C, 108, 1091R				

SIGNAL INTERCONNECT LEGEND

-  PR. HANDHOLE
-  PR. DOUBLE HANDHOLE
-  PR. CONTROLLER
-  PR. CONDUIT: "T" TRENCH, "P" PUSHED
-  "S" SYSTEM
-  "T" INTERSECTION
-  EXISTING HANDHOLE
-  EXISTING DOUBLE HANDHOLE
-  EXISTING CONTROLLER
-  EXISTING CONDUIT



REVISIONS	
NAME	DATE

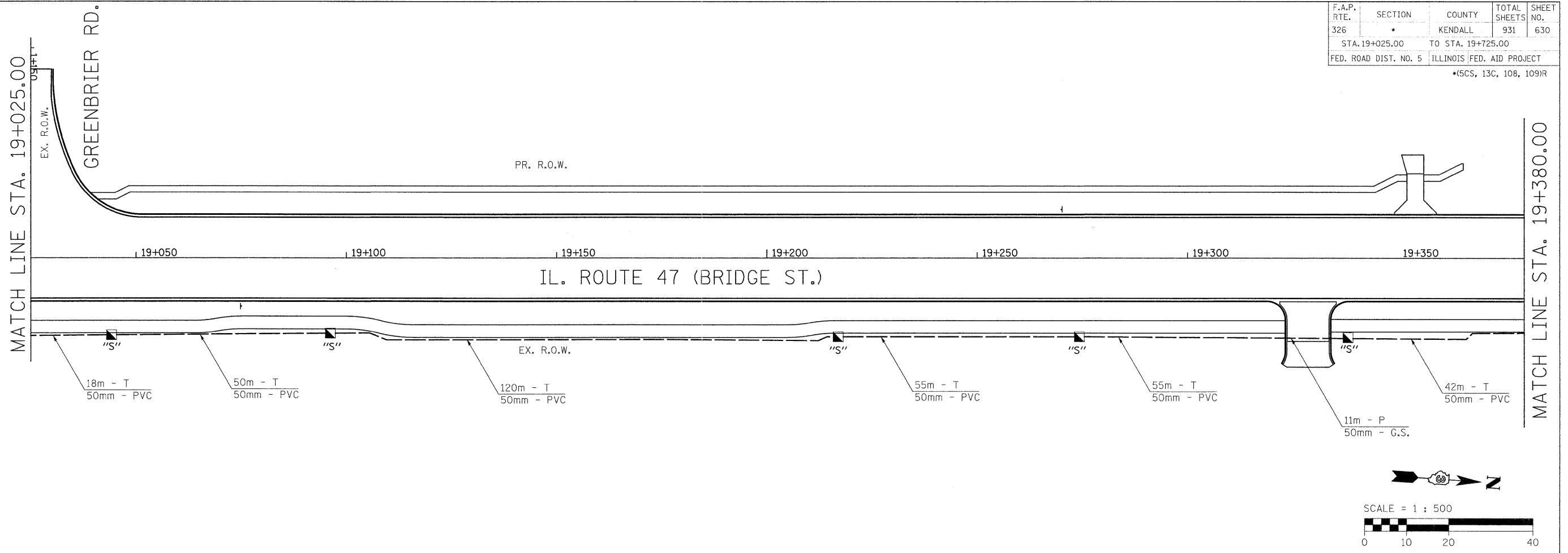
ILLINOIS DEPARTMENT OF TRANSPORTATION

INTERCONNECTION DETAILS
IL. ROUTE 47 (BRIDGE ST.)

SCALE: 1:500
DATE: SEPTEMBER, 2005

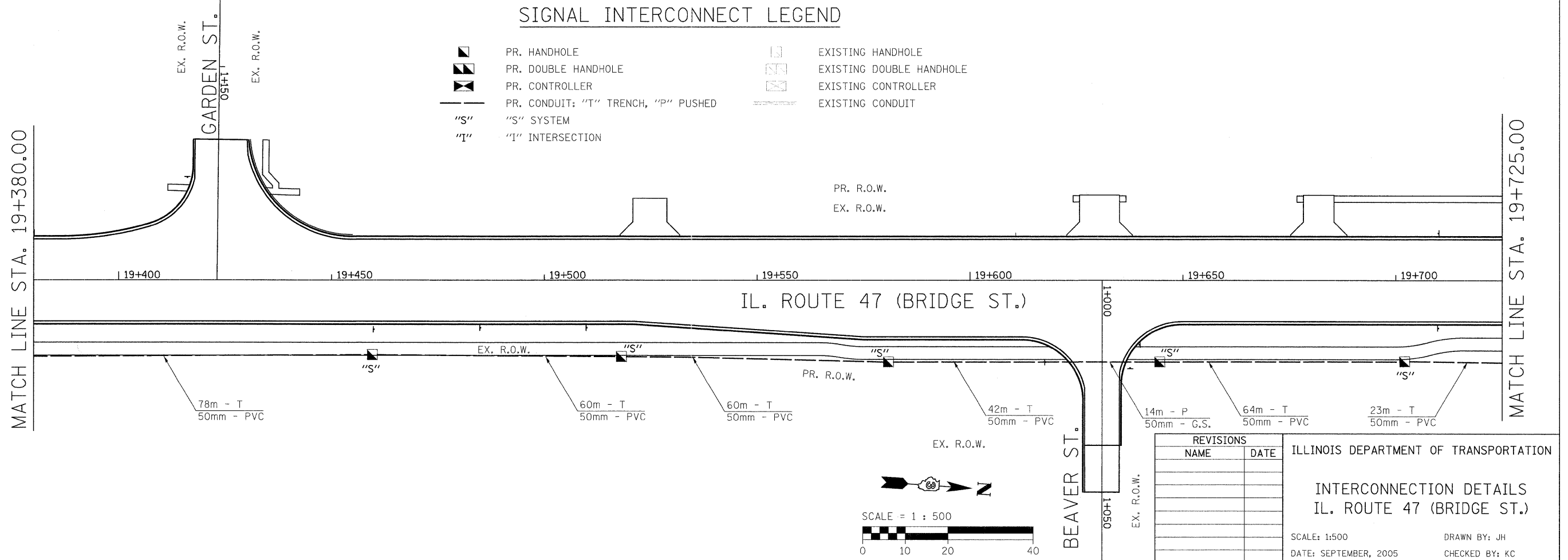
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CHECKED BY: KC

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326		KENDALL	931	630
STA. 19+025.00		TO STA. 19+725.00		
FED. ROAD DIST. NO. 5		ILLINOIS FED. AID PROJECT		
*5CS, 13C, 10B, 1091R				



SIGNAL INTERCONNECT LEGEND

- | | | | |
|-----|-------------------------------------|--|--------------------------|
| | PR. HANDHOLE | | EXISTING HANDHOLE |
| | PR. DOUBLE HANDHOLE | | EXISTING DOUBLE HANDHOLE |
| | PR. CONTROLLER | | EXISTING CONTROLLER |
| | PR. CONDUIT: "T" TRENCH, "P" PUSHED | | EXISTING CONDUIT |
| "S" | "S" SYSTEM | | |
| "T" | "T" INTERSECTION | | |



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

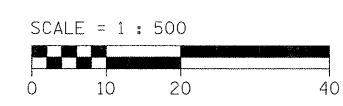
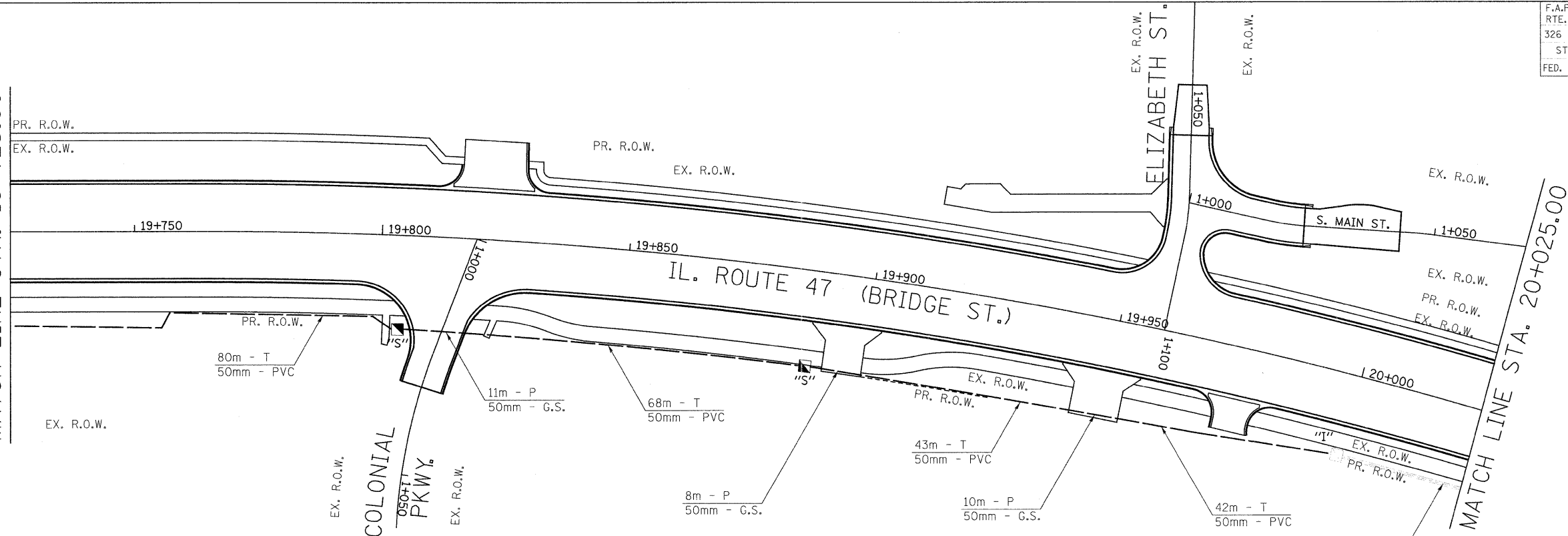
INTERCONNECTION DETAILS
IL. ROUTE 47 (BRIDGE ST.)

SCALE: 1:500
DATE: SEPTEMBER, 2005

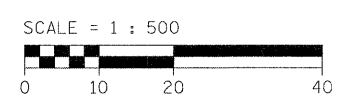
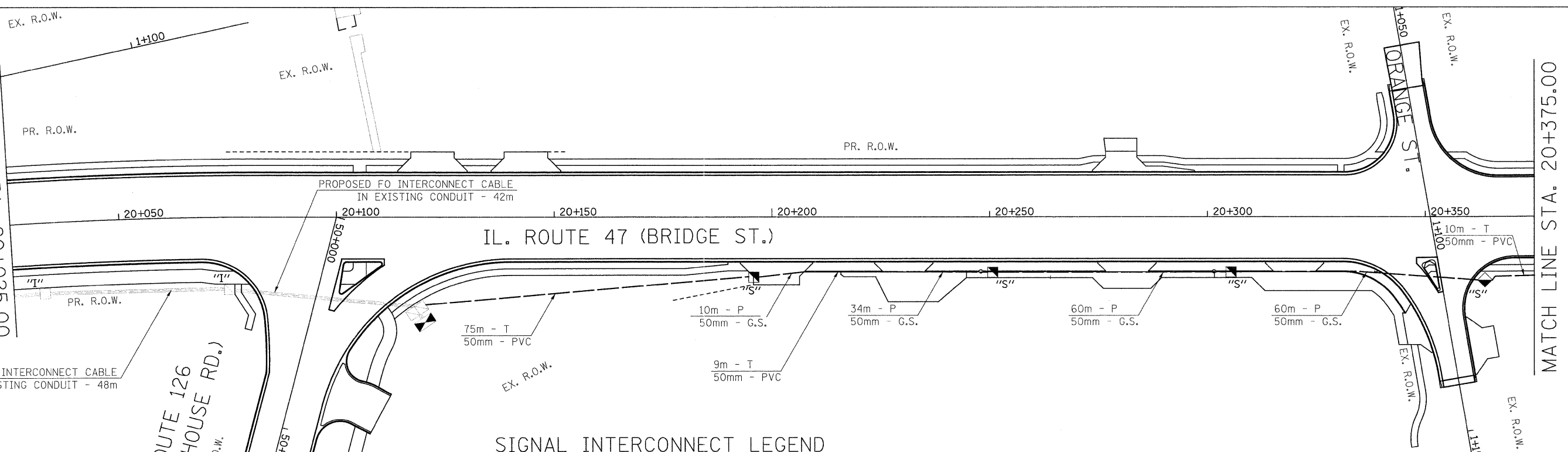
DRAWN BY: JH
CHECKED BY: KC

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326		KENDALL	931	631
STA. 19+725.00		TO STA. 20+375.00		
FED. ROAD DIST. NO. 5		ILLINOIS FED. AID PROJECT		
*(5CS, 13C, 10B, 109)R				

MATCH LINE STA. 19+725.00



MATCH LINE STA. 20+025.00



SIGNAL INTERCONNECT LEGEND

- | | | | |
|--|-------------------------------------|--|--------------------------|
| | PR. HANDHOLE | | EXISTING HANDHOLE |
| | PR. DOUBLE HANDHOLE | | EXISTING DOUBLE HANDHOLE |
| | PR. CONTROLLER | | EXISTING CONTROLLER |
| | PR. CONDUIT: "T" TRENCH, "P" PUSHED | | EXISTING CONDUIT |
| | "S" SYSTEM | | |
| | "I" INTERSECTION | | |

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

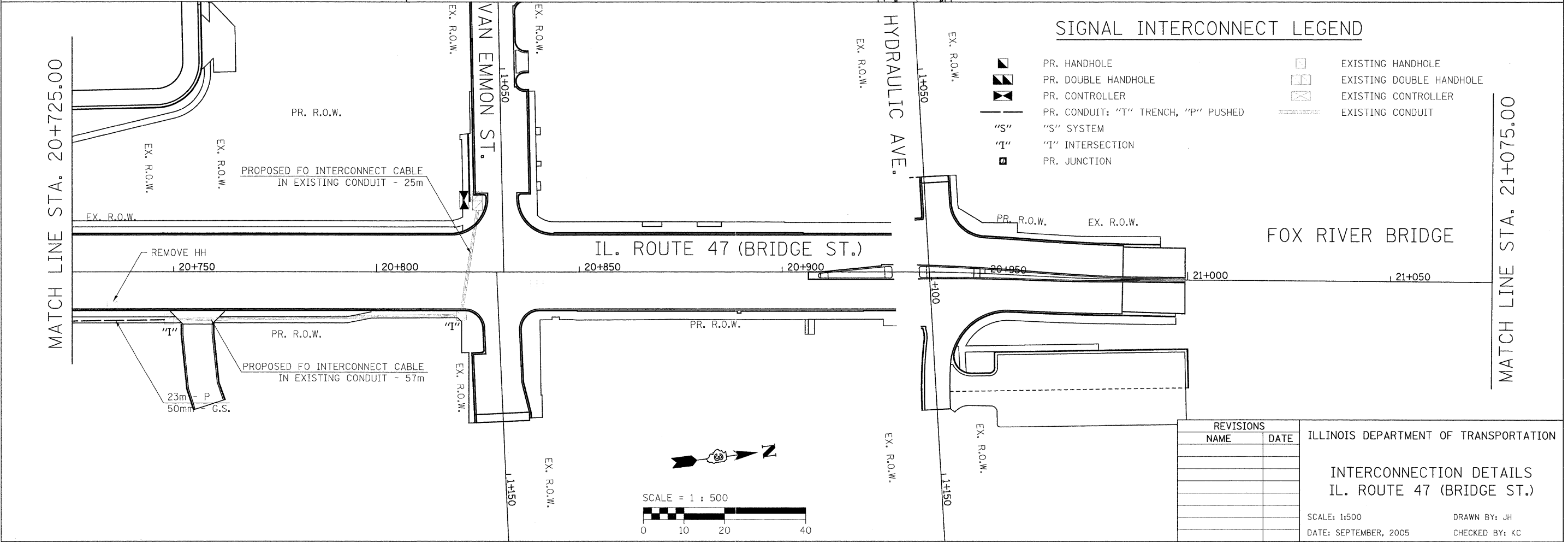
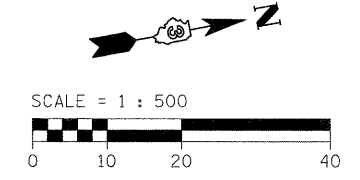
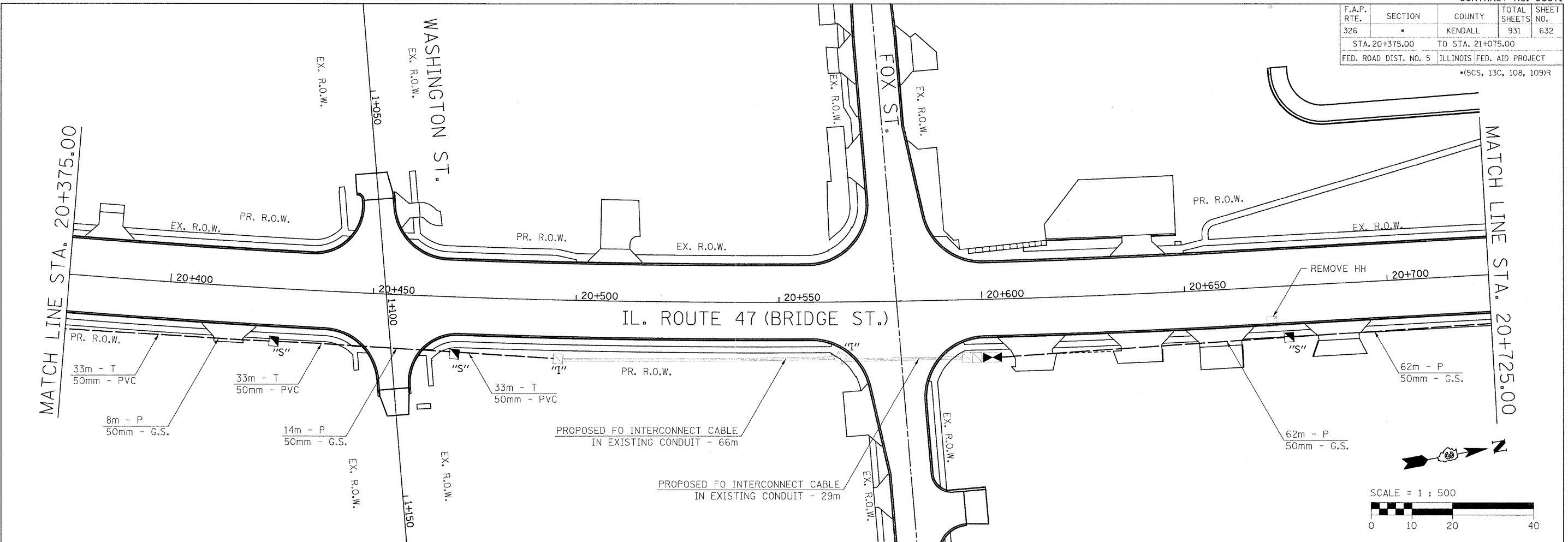
**INTERCONNECTION DETAILS
IL. ROUTE 47 (BRIDGE ST.)**

SCALE: 1:500
DATE: SEPTEMBER, 2005

DRAWN BY: JH
CHECKED BY: KC

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	*	KENDALL	931	632
STA. 20+375.00		TO STA. 21+075.00		
FED. ROAD DIST. NO. 5		ILLINOIS FED. AID PROJECT		

*5CS, 13C, 10B, 109R



SIGNAL INTERCONNECT LEGEND

- PR. HANDHOLE
- PR. DOUBLE HANDHOLE
- PR. CONTROLLER
- PR. CONDUIT: "T" TRENCH, "P" PUSHED
- "S" SYSTEM
- "I" INTERSECTION
- PR. JUNCTION
- EXISTING HANDHOLE
- EXISTING DOUBLE HANDHOLE
- EXISTING CONTROLLER
- EXISTING CONDUIT

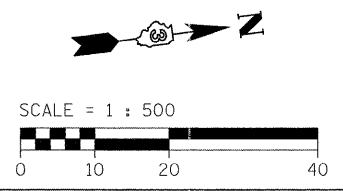
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

INTERCONNECTION DETAILS
IL. ROUTE 47 (BRIDGE ST.)

SCALE: 1:500
DATE: SEPTEMBER, 2005

DRAWN BY: JH
CHECKED BY: KC



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326		KENDALL	931	633
STA. 21+075.00		TO STA. 21+775.00		
FED. ROAD DIST. NO. 5		ILLINOIS	FED. AID PROJECT	
*5CS, 13C, 108, 109R				

SIGNAL INTERCONNECT LEGEND

- | | | | |
|-----|-------------------------------------|--|--------------------------|
| | PR. HANDHOLE | | EXISTING HANDHOLE |
| | PR. DOUBLE HANDHOLE | | EXISTING DOUBLE HANDHOLE |
| | PR. CONTROLLER | | EXISTING CONTROLLER |
| | PR. CONDUIT: "T" TRENCH, "P" PUSHED | | EXISTING CONDUIT |
| "S" | "S" SYSTEM | | |
| "I" | "I" INTERSECTION | | |
| | PR. JUNCTION | | |

MATCH LINE STA. 21+075.00

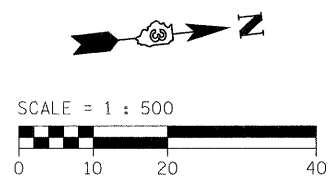
FOX RIVER BRIDGE

21+100 21+150 21+200 21+250 21+300 21+350 21+400

IL. ROUTE 47 (BRIDGE ST.)

MATCH LINE STA. 21+425.00

EX. R.O.W. RIVER ST.
EX. R.O.W. MAIN ST.



MATCH LINE STA. 21+425.00

CENTER ST.

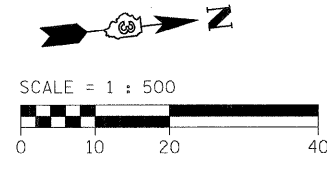
21+450 21+500 21+550 21+600 21+650 21+700 21+750

IL. ROUTE 47 (BRIDGE ST.)

MATCH LINE STA. 21+775.00

EX. R.O.W. SPRING ST.
EX. R.O.W. SOMONAUK ST.

PROPOSED FO INTERCONNECT CABLE
IN EXISTING CONDUIT - 35m
PROPOSED FO INTERCONNECT CABLE
IN EXISTING CONDUIT - 76m

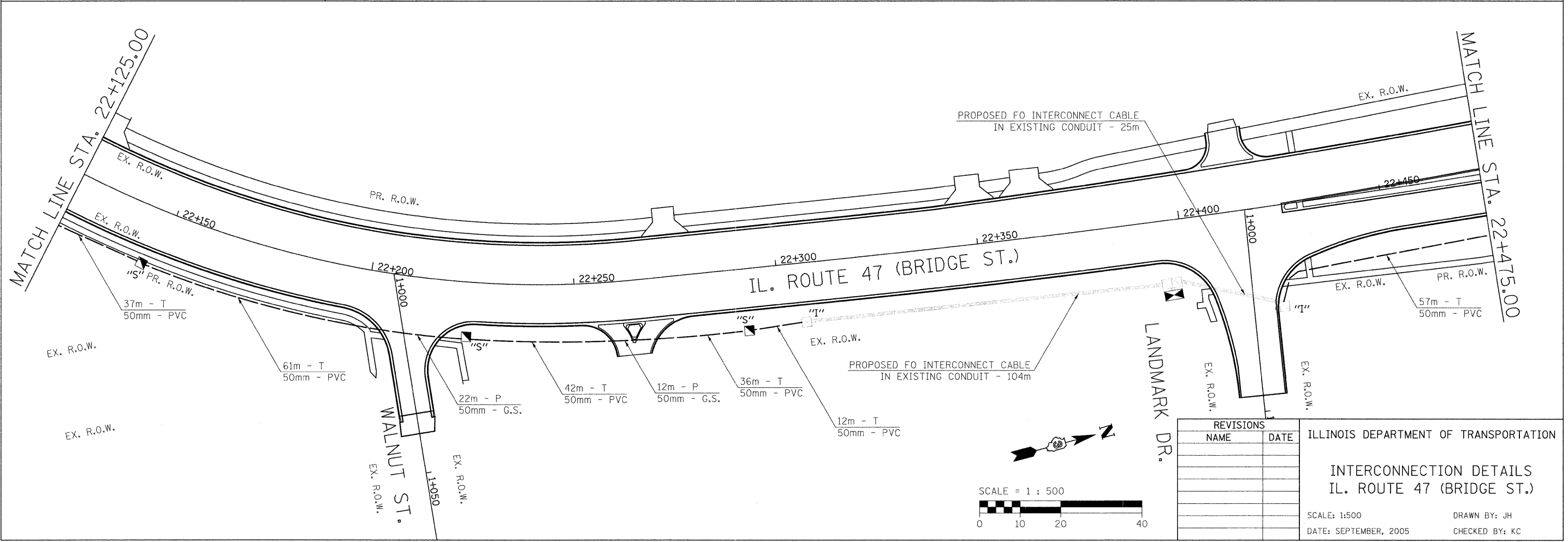
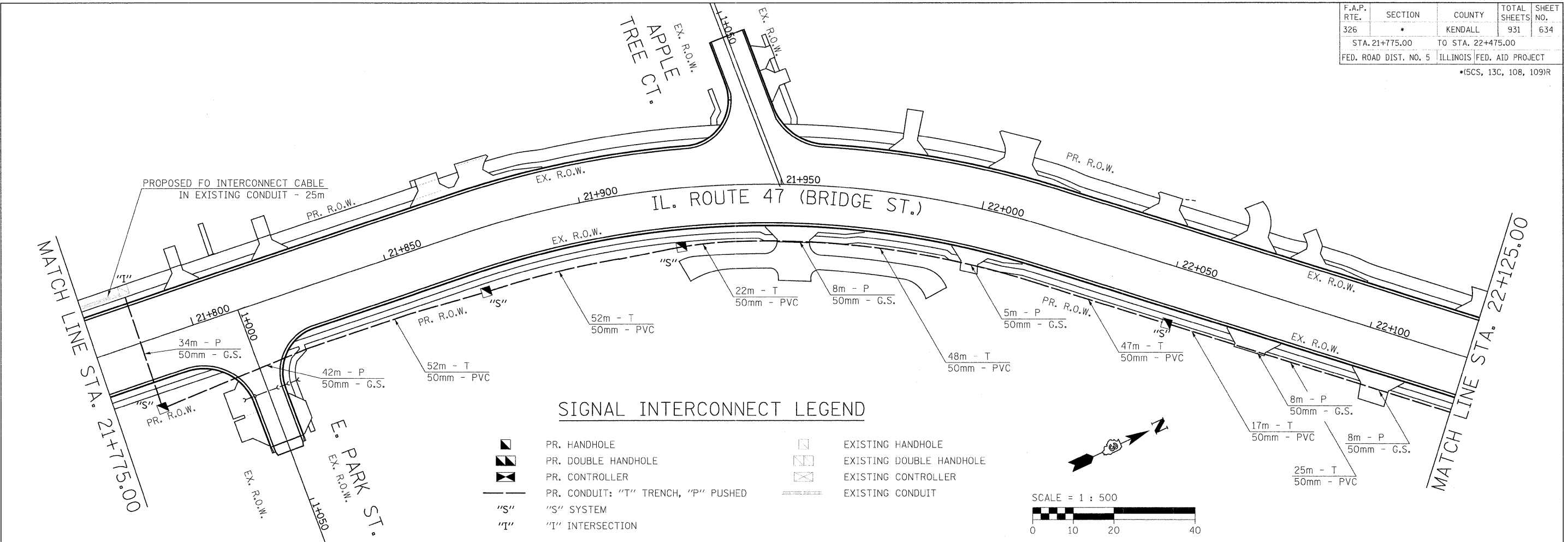


REVISIONS	
NAME	DATE

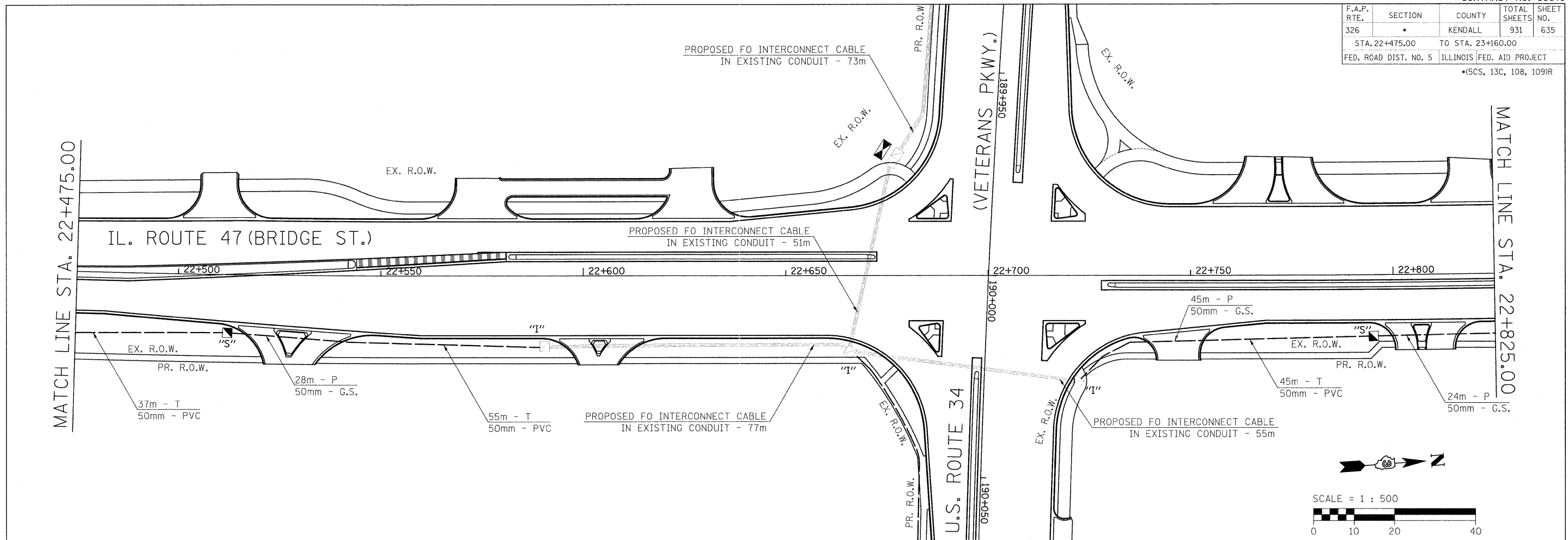
ILLINOIS DEPARTMENT OF TRANSPORTATION

**INTERCONNECTION DETAILS
IL. ROUTE 47 (BRIDGE ST.)**

SCALE: 1:500 DRAWN BY: JH
DATE: SEPTEMBER, 2005 CHECKED BY: KC

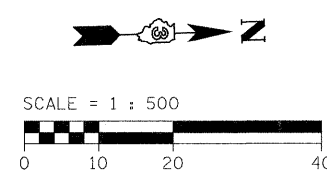
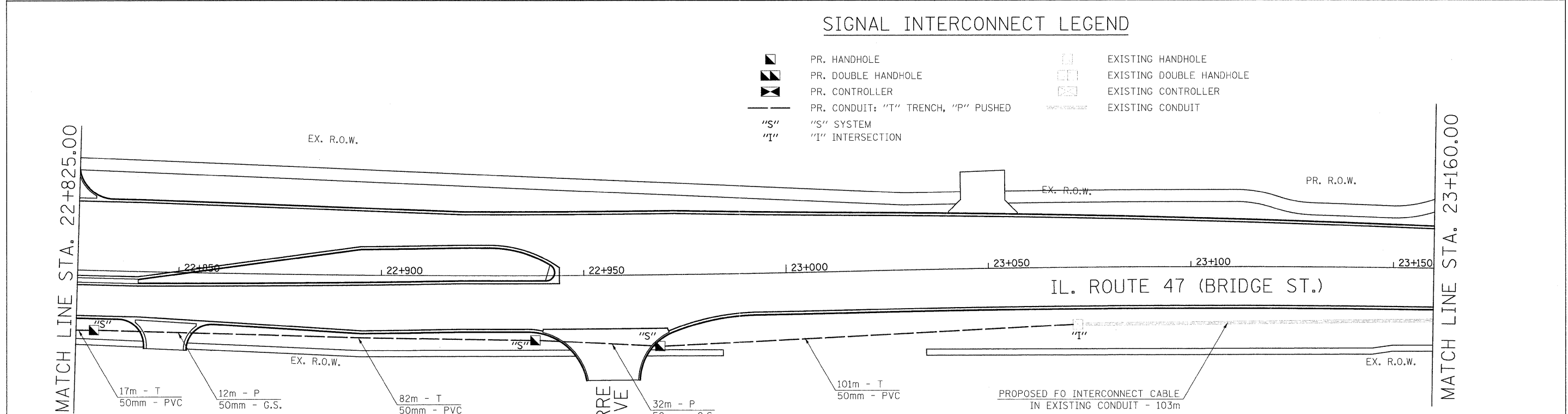


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	*	KENDALL	931	635
STA. 22+475.00		TO STA. 23+160.00		
FED. ROAD DIST. NO. 5		ILLINOIS FED. AID PROJECT		
*15CS, 13C, 108, 109R				



SIGNAL INTERCONNECT LEGEND

- PR. HANDHOLE
- PR. DOUBLE HANDHOLE
- PR. CONTROLLER
- PR. CONDUIT: "T" TRENCH, "P" PUSHED
- "S" SYSTEM
- "I" INTERSECTION
- EXISTING HANDHOLE
- EXISTING DOUBLE HANDHOLE
- EXISTING CONTROLLER
- EXISTING CONDUIT



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

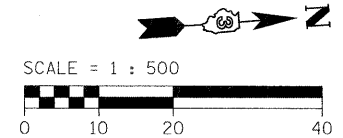
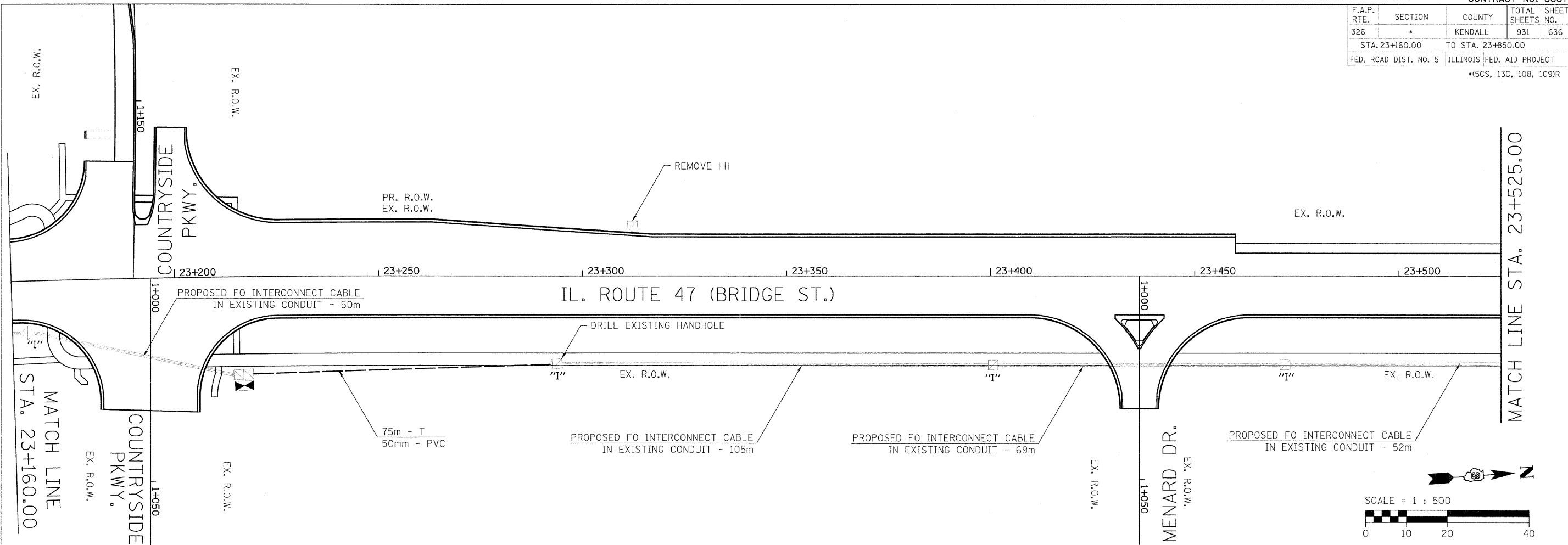
INTERCONNECTION DETAILS
IL. ROUTE 47 (BRIDGE ST.)

SCALE: 1:500
DATE: SEPTEMBER, 2005

DRAWN BY: JH
CHECKED BY: KC

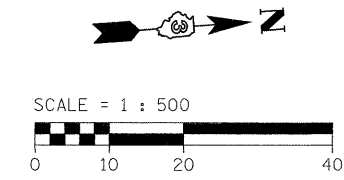
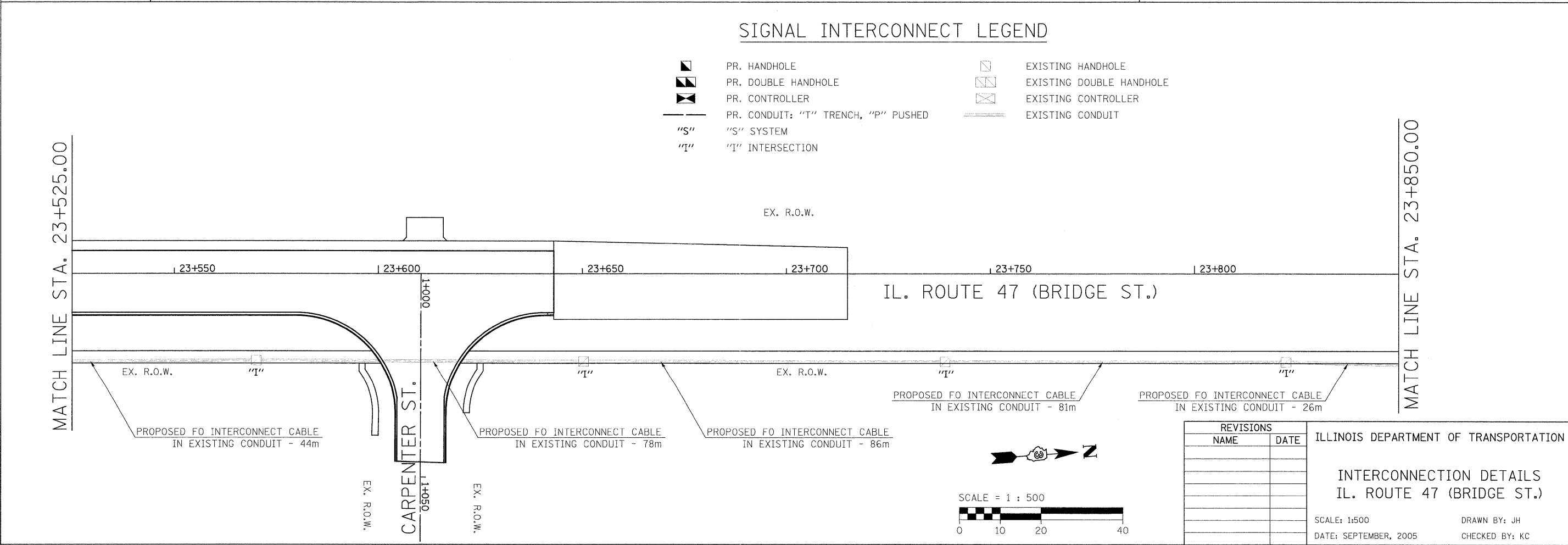
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	*	KENDALL	931	636
STA. 23+160.00		TO STA. 23+850.00		
FED. ROAD DIST. NO. 5		ILLINOIS FED. AID PROJECT		

*5CS, 13C, 108, 109IR



SIGNAL INTERCONNECT LEGEND

- | | | | |
|--|-------------------------------------|--|--------------------------|
| | PR. HANDHOLE | | EXISTING HANDHOLE |
| | PR. DOUBLE HANDHOLE | | EXISTING DOUBLE HANDHOLE |
| | PR. CONTROLLER | | EXISTING CONTROLLER |
| | PR. CONDUIT: "T" TRENCH, "P" PUSHED | | EXISTING CONDUIT |
| | "S" SYSTEM | | |
| | "I" INTERSECTION | | |



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**INTERCONNECTION DETAILS
IL. ROUTE 47 (BRIDGE ST.)**

SCALE: 1:500
DATE: SEPTEMBER, 2005

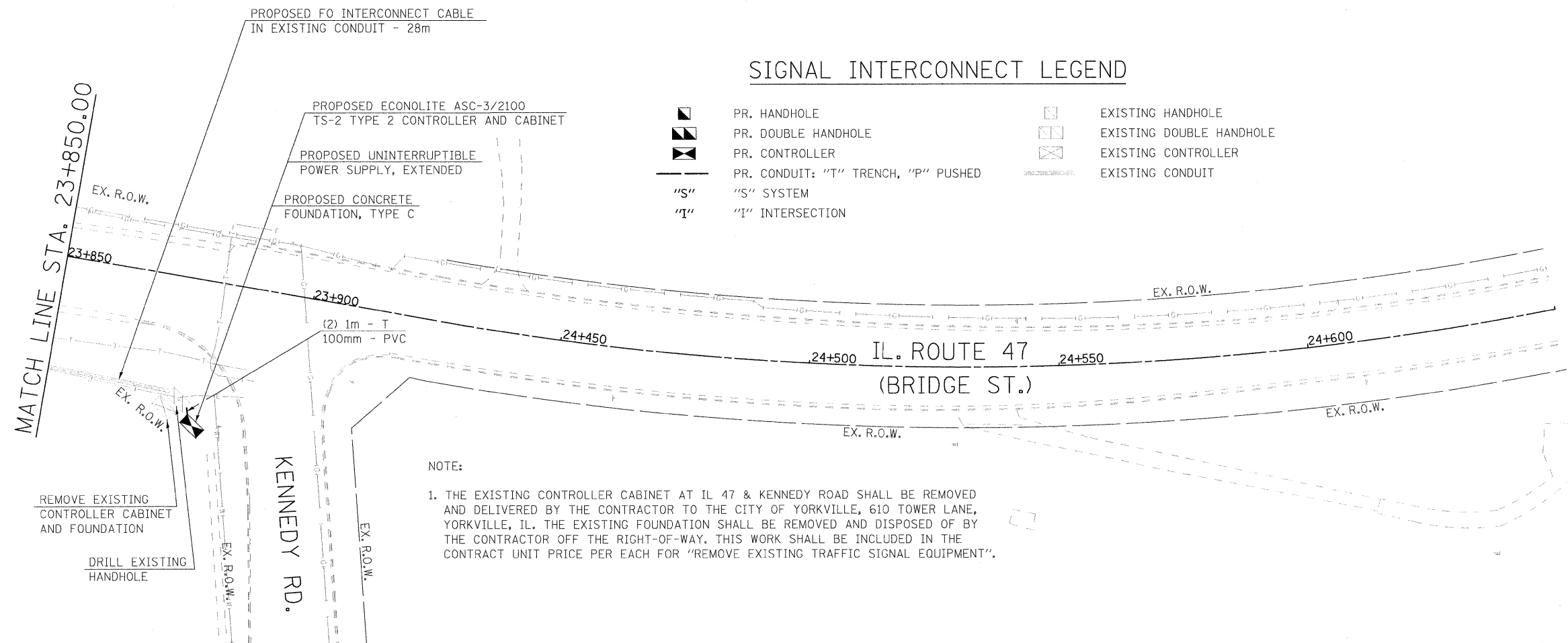
DRAWN BY: JH
CHECKED BY: KC

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	*	KENDALL	931	637
STA. 23+850.00		TO STA. 24+950.00		
FED. ROAD DIST. NO. 5		ILLINOIS FED. AID PROJECT		

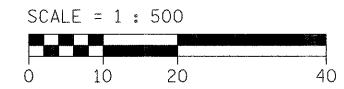
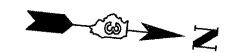
*15CS, 13C, 10B, 1091R

SIGNAL INTERCONNECT LEGEND

	PR. HANDHOLE		EXISTING HANDHOLE
	PR. DOUBLE HANDHOLE		EXISTING DOUBLE HANDHOLE
	PR. CONTROLLER		EXISTING CONTROLLER
	PR. CONDUIT: "T" TRENCH, "P" PUSHED		EXISTING CONDUIT
"S"	"S" SYSTEM		
"I"	"I" INTERSECTION		



NOTE:
 1. THE EXISTING CONTROLLER CABINET AT IL 47 & KENNEDY ROAD SHALL BE REMOVED AND DELIVERED BY THE CONTRACTOR TO THE CITY OF YORKVILLE, 610 TOWER LANE, YORKVILLE, IL. THE EXISTING FOUNDATION SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR OFF THE RIGHT-OF-WAY. THIS WORK SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER EACH FOR "REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT".

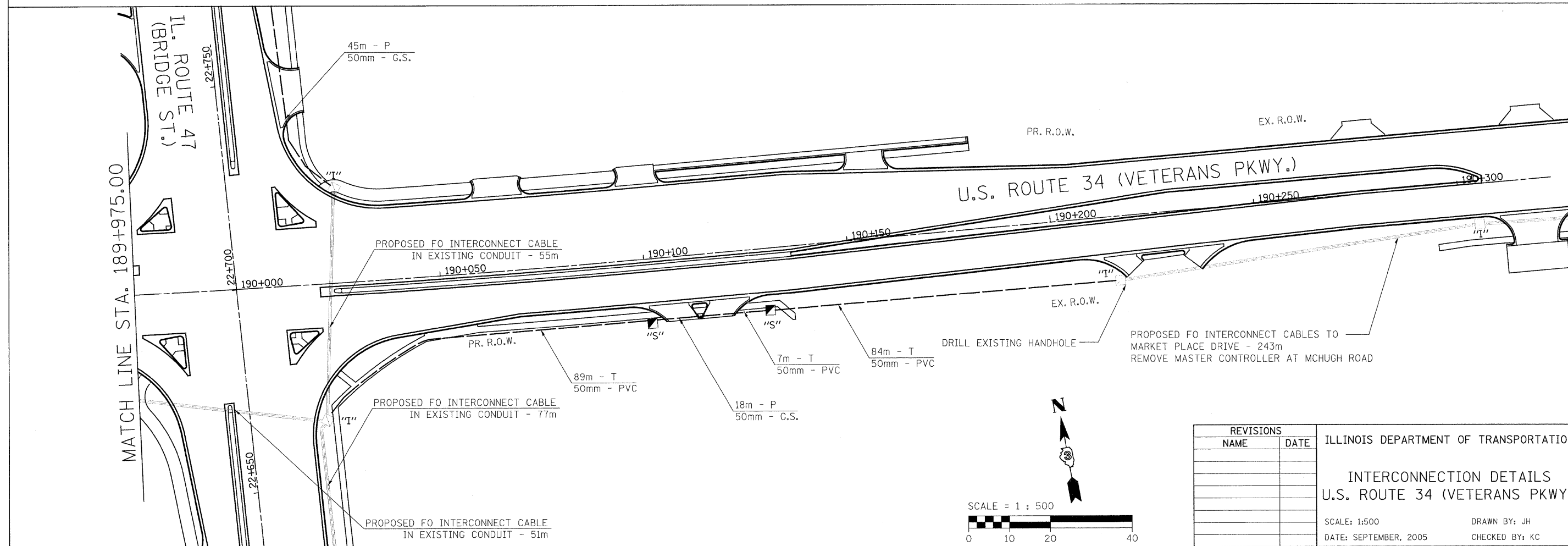
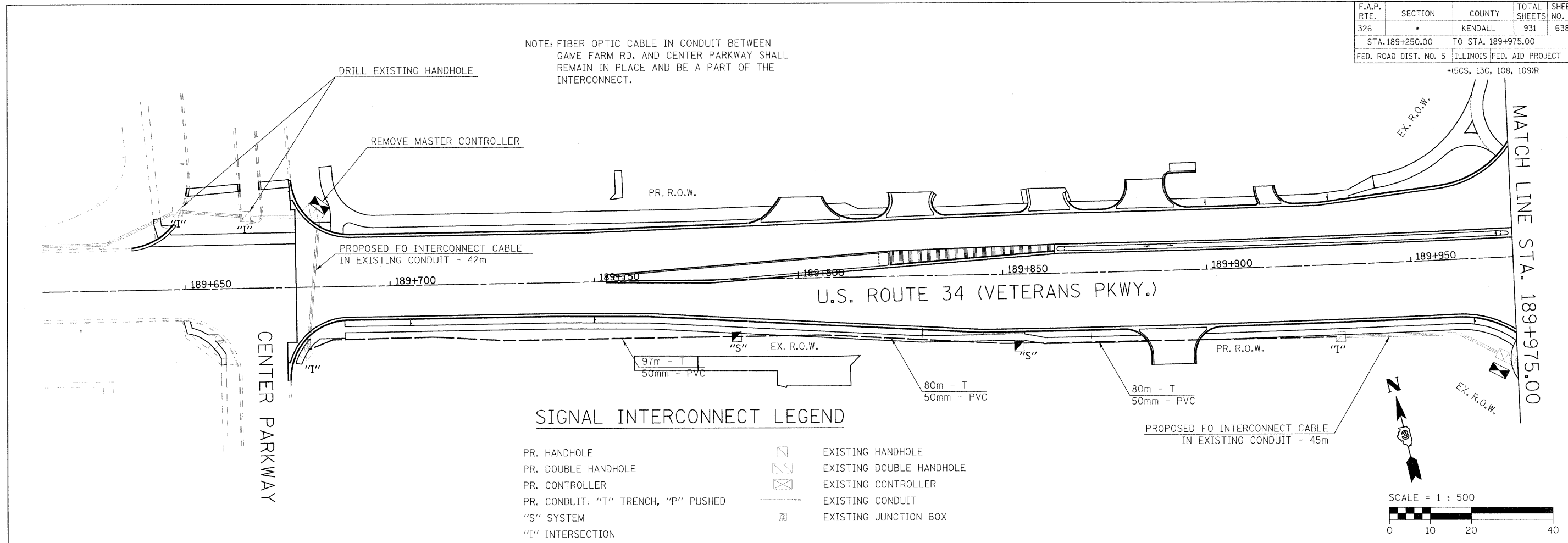


REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		INTERCONNECTION DETAILS IL. ROUTE 47 (BRIDGE ST.)
SCALE: 1:500		DRAWN BY: JH
DATE: SEPTEMBER, 2005		CHECKED BY: KC

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326		KENDALL	931	638
STA. 189+250.00 TO STA. 189+975.00				
FED. ROAD DIST. NO. 5			ILLINOIS FED. AID PROJECT	

(5CS, 13C, 108, 109)R









NOTE: FIBER OPTIC CABLE IN CONDUIT BETWEEN GAME FARM RD. AND CENTER PARKWAY SHALL REMAIN IN PLACE AND BE A PART OF THE INTERCONNECT.



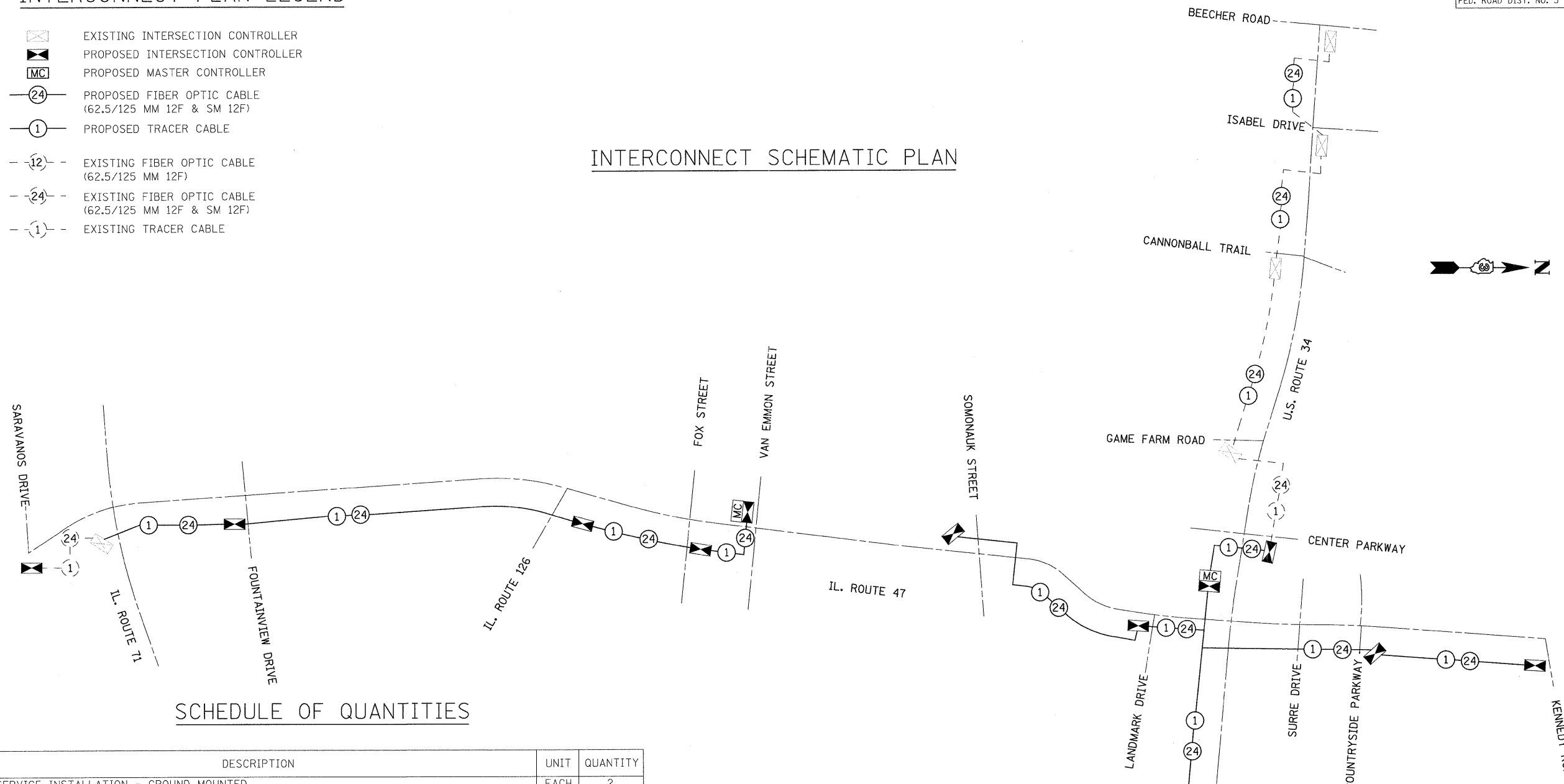
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<p>INTERCONNECTION DETAILS U.S. ROUTE 34 (VETERANS PKWY.)</p> <p>SCALE: 1:500 DATE: SEPTEMBER, 2005</p> <p>DRAWN BY: JH CHECKED BY: KC</p>

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	•	KENDALL	931	639
STA. N/A		TO STA. N/A		
FED. ROAD DIST. NO. 5		ILLINOIS FED. AID PROJECT		
*15CS, 13C, 10B, 109R				

INTERCONNECT PLAN LEGEND

-  EXISTING INTERSECTION CONTROLLER
-  PROPOSED INTERSECTION CONTROLLER
-  PROPOSED MASTER CONTROLLER
-  PROPOSED FIBER OPTIC CABLE (62.5/125 MM 12F & SM 12F)
-  PROPOSED TRACER CABLE
-  EXISTING FIBER OPTIC CABLE (62.5/125 MM 12F)
-  EXISTING FIBER OPTIC CABLE (62.5/125 MM 12F & SM 12F)
-  EXISTING TRACER CABLE

INTERCONNECT SCHEMATIC PLAN



SCHEDULE OF QUANTITIES

DESCRIPTION	UNIT	QUANTITY
SERVICE INSTALLATION - GROUND MOUNTED	EACH	2
HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	41
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	19
MASTER CONTROLLER	EACH	2
UNINTERRUPTIBLE POWER SUPPLY, EXTENDED	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	5
MODIFY EXISTING CONTROLLER AND CABINET	EACH	9
REMOVE EXISTING HANDHOLE	EACH	3
CONDUIT IN TRENCH, 50MM DIA., PVC	METER	2973
CONDUIT IN TRENCH, 100MM DIA., PVC	METER	2
CONDUIT PUSHED, 50MM DIA., GALVANIZED STEEL	METER	738
TRENCH AND BACKFILL FOR ELECTRICAL WORK	METER	2975
CONCRETE FOUNDATION, TYPE C	METER	1.2
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	METER	250
ELECTRIC CABLE IN CONDUIT, TRACER	METER	5079
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	METER	5079
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	12
TEMPORARY TRAFFIC SIGNAL INTERCONNECT - SYSTEM I	EACH	1
TEMPORARY TRAFFIC SIGNAL INTERCONNECT - SYSTEM II	EACH	1
TEMPORARY TRAFFIC SIGNAL INTERCONNECT - SYSTEM III	EACH	1
FIBER OPTIC CABLE IN CONDUIT, NO 62.5/125, MM 24F, SM 24F	METER	5079
TEMPORARY RE-OPTIMIZATION OF EXISTING TRAFFIC SIGNAL SYSTEM	L SUM	1
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM	L SUM	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
INDUCTIVE LOOP DETECTOR	EACH	8
REMOVE ELECTRIC CABLE FROM CONDUIT	METER	250
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1

NOTE:

- DRILL EXISTING HANDHOLE FOR INTERCONNECT CONDUIT SHALL BE CONSIDERED AS INCIDENTAL TO THE PAY ITEM FOR CONDUIT.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

INTERCONNECT SCHEMATIC PLAN SCHEDULE OF QUANTITIES

SCALE: 1:500
DATE: SEPTEMBER, 2005

DRAWN BY: JH
CHECKED BY: KC

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	•	KENDALL	931	640
STA. N/A		TO STA. N/A		
FED. ROAD DIST. NO. 5		ILLINOIS FED. AID PROJECT		

*(5CS, 13C, 108, 109)R



Illinois Department of Transportation
Division of Highways
ILLINOIS DOT

SOIL BORING LOG

Page 1 of 1

Date 4/6/02

ROUTE FAP 326(IL47) DESCRIPTION MAST ARM FOUNDATION AT IL 47 & IL 71 SOUTH OF YORKVILLE LOGGED BY L.M.

SECTION (5CS,13C,108,109)R LOCATION SE 1/4, SEC. 5, TWP. 36N, RNG. 7E, 3rd PM

COUNTY KENDALL DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO.	Station	DEPTH	BL	UCS	MOIST	Surface Water Elev.	Stream Bed Elev.	DEPTH	BL	UCS	MOIST	
BORING NO.	Station	Offset	H	S	Qu	First Encounter	Upon Completion	H	S	Qu	T	
Ground Surface Elev.		m	(m)	(mm)	(kPa)	(%)	After		m	(/150 mm)	(kPa)	(%)
AUGERED Brown SILTY CLAY LOAM								4				
								7	335	12.0		
								10	P			
Very Stiff Brown SILTY CLAY LOAM TILL			3									
			6	278	13.0							
			8	B								
			-1.5					-7.5				
			4					4				
			7	259	14.0			7	240	12.0		
			9	B				9	B			
Hard Brown SILTY LOAM TILL			5									
			8	450	14.0							
			11	S								
			-3.0					-9.0				
			5									
			7	699	14.0							
			11	S								
Very Stiff Gray SILTY CLAY LOAM TILL			-4.5					-10.5				
			4									
			7	297	14.0							
			8	B								
			4									
			7	268	15.0							
			10	S								
			-6.0					-12.0				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, form 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
ILLINOIS DOT

SOIL BORING LOG

Page 1 of 1

Date 6/6/02

ROUTE FAP 326(IL47) DESCRIPTION MAST ARM FOUNDATION AT IL 47 & IL 71 SOUTH OF YORKVILLE LOGGED BY L.M.

SECTION (5CS,13C,108,109)R LOCATION SE 1/4, SEC. 5, TWP. 36N, RNG. 7E, 3rd PM

COUNTY KENDALL DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO.	Station	DEPTH	BL	UCS	MOIST	Surface Water Elev.	Stream Bed Elev.	DEPTH	BL	UCS	MOIST	
BORING NO.	Station	Offset	H	S	Qu	First Encounter	Upon Completion	H	S	Qu	T	
Ground Surface Elev.		m	(m)	(mm)	(kPa)	(%)	After		m	(/150 mm)	(kPa)	(%)
AUGERED Brown SILTY CLAY LOAM								5				
								6	278	14.0		
								9	B			
Stiff Brown SILTY CLAY LOAM			3									
			3	192	16.0							
			2	P								
Hard Brown & Gray SILTY CLAY TILL			-1.5					-7.5				
			5					4				
			8	661	16.0			5	240	13.0		
			9	S				8	B			
			6									
			9	680	14.0							
			12	S								
			-3.0					-9.0				
			6									
			8	719	14.0							
			11	S								
Very Stiff Brown & Gray SILTY CLAY TILL			5									
			7	297	14.0							
			10	S								
			-4.5					-10.5				
			7									
			7	240	14.0							
			11	P								
Very Stiff Gray SILTY CLAY LOAM TILL			5									
			5	259	14.0							
			9	B								
			-6.0					-12.0				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, form 137 (Rev. 8-99)

PLOT DATE = 6/11/2001
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PLOT SCALE = 20.0000 / 1.00
USER NAME = JOSEPHESC

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SOIL BORING LOG FOR
MAST ARM FOUNDATION
IL. 47 (BRIDGE ST.)/
IL. 71 (STAGECOACH TRAIL)

SCALE: NONE DRAWN BY: SL
DATE: MARCH, 2010 CHECKED BY: KC

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	*	KENDALL	931	641
STA. N/A		TO STA. N/A		
FED. ROAD DIST. NO. 5		ILLINOIS FED. AID PROJECT		

*15CS, 13C, 108, 109R



Illinois Department of Transportation
Division of Highways
ILLINOIS DOT

SOIL BORING LOG

Page 1 of 1

Date 6/18/02

ROUTE FAP 326(IL47) DESCRIPTION MAST ARM FOUNDATION AT IL 47 & IL 126 SOUTH OF YORKVILLE LOGGED BY L.M.

SECTION (5CS,13C,108,109)R LOCATION SE 1/4, SEC. 32, TWP. 37N, RNG. 7E, 3rd PM

COUNTY KENDALL DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO.	DEPTHS	U	M	Surface Water Elev.	DEPTHS	U	M	
Station	(m)	(/150 mm)	(kPa)	(%)	(m)	(/150 mm)	(kPa)	(%)
AUGERED Brown SILTY CLAY LOAM				Very Stiff Gray SILTY CLAY LOAM TILL (continued)	4			
					5	364	10.0	
					6	B		
Medium Brown SILTY CLAY LOAM	2			Very Stiff Gray SILTY CLAY TILL				
	1		19.0					
	2							
	-1.5				-7.5			
Very Stiff Brown SILTY CLAY LOAM TILL	4				1			
	5	297	14.0		4	383	19.0	
	7	S			8	B		
	6			End of Boring				
	6	259	14.0					
	7	B						
Hard Gray SILTY CLAY LOAM TILL	-3.0				-3.0			
	4							
	6	469	12.0					
	8	B						
	5							
	6	431	12.0					
	8	B						
Very Stiff Gray SILTY CLAY LOAM TILL	-4.5				-10.5			
	4							
	5	345	12.0					
	8	B						
Hard Gray SILTY CLAY LOAM TILL								
	4							
	5	431	10.0					
	8	B						
	-6.0				-12.0			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, form 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
ILLINOIS DOT

SOIL BORING LOG

Page 1 of 1

Date 6/18/02

ROUTE FAP 326(IL47) DESCRIPTION MAST ARM FOUNDATION AT IL 47 & IL 126 SOUTH OF YORKVILLE LOGGED BY L.M.

SECTION (5CS,13C,108,109)R LOCATION SE 1/4, SEC. 32, TWP. 37N, RNG. 7E, 3rd PM

COUNTY KENDALL DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO.	DEPTHS	U	M	Surface Water Elev.	DEPTHS	U	M	
Station	(m)	(/150 mm)	(kPa)	(%)	(m)	(/150 mm)	(kPa)	(%)
AUGERED SHOULDER STONE Over Brown SILTY CLAY LOAM				Very Stiff Gray SILTY CLAY LOAM TILL (continued)	3			
					4	278	10.0	
					5	B		
Stiff Brown SILTY CLAY LOAM (FILL)	3			Loose Rounded SAND & GRAVEL				
	3	182	25.0					
	7	B						
	-1.5				-7.5			
Very Stiff Brown & Gray SILTY CLAY LOAM TILL	4				6			
	5	297	19.0		6	-	13.0	
	7	B			5	192	20.0	
	3			Very Stiff Gray SILTY CLAY LOAM TILL				
	4	240	14.0					
	6	B		End of Boring				
Hard Gray SILTY CLAY LOAM TILL	-3.0				-3.0			
	3							
	7	575	12.0					
	9	S						
Very Stiff Gray SILTY CLAY LOAM TILL								
	4							
	6	345	13.0					
	8	B						
	-4.5				-10.5			
	3							
	4	345	11.0					
	7	B						
	5							
	7	259	10.0					
	5	B						
	-6.0				-12.0			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, form 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
ILLINOIS DOT

SOIL BORING LOG

Page 1 of 1

Date 6/6/02

ROUTE FAP 326(IL47) DESCRIPTION MAST ARM FOUNDATION AT IL 47 & IL 126 SOUTH OF YORKVILLE LOGGED BY L.M.

SECTION (5CS,13C,108,109)R LOCATION SE 1/4, SEC. 32, TWP. 37N, RNG. 7E, 3rd PM

COUNTY KENDALL DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO.	DEPTHS	U	M	Surface Water Elev.	DEPTHS	U	M	
Station	(m)	(/150 mm)	(kPa)	(%)	(m)	(/150 mm)	(kPa)	(%)
AUGERED Brown SILTY CLAY LOAM				Very Stiff Gray SILTY CLAY LOAM TILL (continued)	4			
					6	316	14.0	
					8	B		
Hard Brown SILTY CLAY LOAM TILL (FILL)	6							
	8							
	9							
	-1.5				-7.5			
	9				4			
	11	450	15.0		6	259	14.0	
	14	S			8	B		
	5			Very Stiff Gray SILTY CLAY LOAM TILL				
	8	259	14.0					
	8	B						
	-3.0				-9.0			
	3							
	4	287	14.0					
	7	B						
	3							
	5	278	14.0					
	6	B						
	-4.5				-10.5			
	4							
	5	297	14.0					
	7	B						
	4							
	6	316	13.0					
	7	B						
	-6.0				-12.0			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, form 137 (Rev. 8-99)

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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SOIL BORING LOG FOR
MAST ARM FOUNDATION
IL. 47 (BRIDGE ST.)/
IL. 126 (SCHOOL HOUSE RD.)

SCALE: NONE
DATE: MARCH, 2010

DRAWN BY: SL
CHECKED BY: KC

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	*	KENDALL	931	647
STA. N/A		TO STA. N/A		
FED. ROAD DIST. NO. 5		ILLINOIS FED. AID PROJECT		

*5CS, 13C, 108, 109R



Illinois Department of Transportation
Division of Highways
ILLINOIS DOT

SOIL BORING LOG

ROUTE FAP 326(IL47) DESCRIPTION MAST ARM FOUNDATION AT IL 47 & SPRING STREET IN YORKVILLE LOGGED BY L.M.
SECTION (5CS,13C,108,109)R LOCATION SW 1/4, SEC. 28, TWP. 37N, RNG. 7E, 3rd PM
COUNTY KENDALL DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO.	Station	DEPTH	BL	UCS	MO	Surface Water Elev.	Stream Bed Elev.	DEPTH	BL	UCS	MO
		H	W	Qu	T	m	m	H	W	Qu	T
		(m)	(/150 mm)	(kPa)	(%)			(m)	(/150 mm)	(kPa)	(%)
AUGERED	Brown SILTY LOAM							3			
								3	-	20.0	
								3	-		
	Very Stiff Brown & Gray CLAY LOAM		2	211	22.0			7			
			3	S				9	-	23.0	
			3					8	-		
			-1.5					-7.5			
	Loose Brown & Gray LOAMY SAND & GRAVEL		2	240	23.0			6	96	12.0	
			3					6	-	14.0	
			4	-	13.0			18	431	10.0	
	Stiff Brown SILTY CLAY LOAM		4	96	23.0						
	Medium Brown Fine to Coarse SAND		4	-	19.0						
			7								
			-3.0					-9.0			
			3								
			7	-	17.0						
			5								
	Medium Gray Fine to Medium SAND with 25 to 50 mm SILT LAYERS Interbedded		4								
			9	-	18.0						
			9								
			-4.5					-10.5			
			WOH								
			5	-	22.0						
			7								
			9								
			10	-	20.0						
			12								
			-6.0					-12.0			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, form 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
ILLINOIS DOT

SOIL BORING LOG

ROUTE FAP 326(IL47) DESCRIPTION MAST ARM FOUNDATION AT IL 47 & SOMONAUK STREET IN YORKVILLE LOGGED BY L.M.
SECTION (5CS,13C,108,109)R LOCATION SW 1/4, SEC. 28, TWP. 37N, RNG. 7E, 3rd PM
COUNTY KENDALL DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO.	Station	DEPTH	BL	UCS	MO	Surface Water Elev.	Stream Bed Elev.	DEPTH	BL	UCS	MO
		H	W	Qu	T	m	m	H	W	Qu	T
		(m)	(/150 mm)	(kPa)	(%)			(m)	(/150 mm)	(kPa)	(%)
AUGERED	Brown SILTY CLAY & SAND & GRAVEL							16			
								11	-	17.0	
								17	-		
	Medium Brown SAND & GRAVEL		5								
			8	-	5.0						
			6								
			-1.5					-7.5			
			5								
			7					7			
			7	-				5	-	18.0	
			9					9			
	Medium Brown Fine SAND & Coarse GRAVEL		5								
			6	-	6.0						
			6								
			-3.0					-9.0			
			6								
			6	-	17.0						
			9								
	Medium Brown Fine SAND & Medium GRAVEL with a 150mm Layer of SANDY LOAM TILL Interbedded		6								
			6	-	18.0						
			9								
			-4.5					-10.5			
			7								
			7	-	19.0						
			9								
			-6.0					-12.0			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, form 137 (Rev. 8-99)

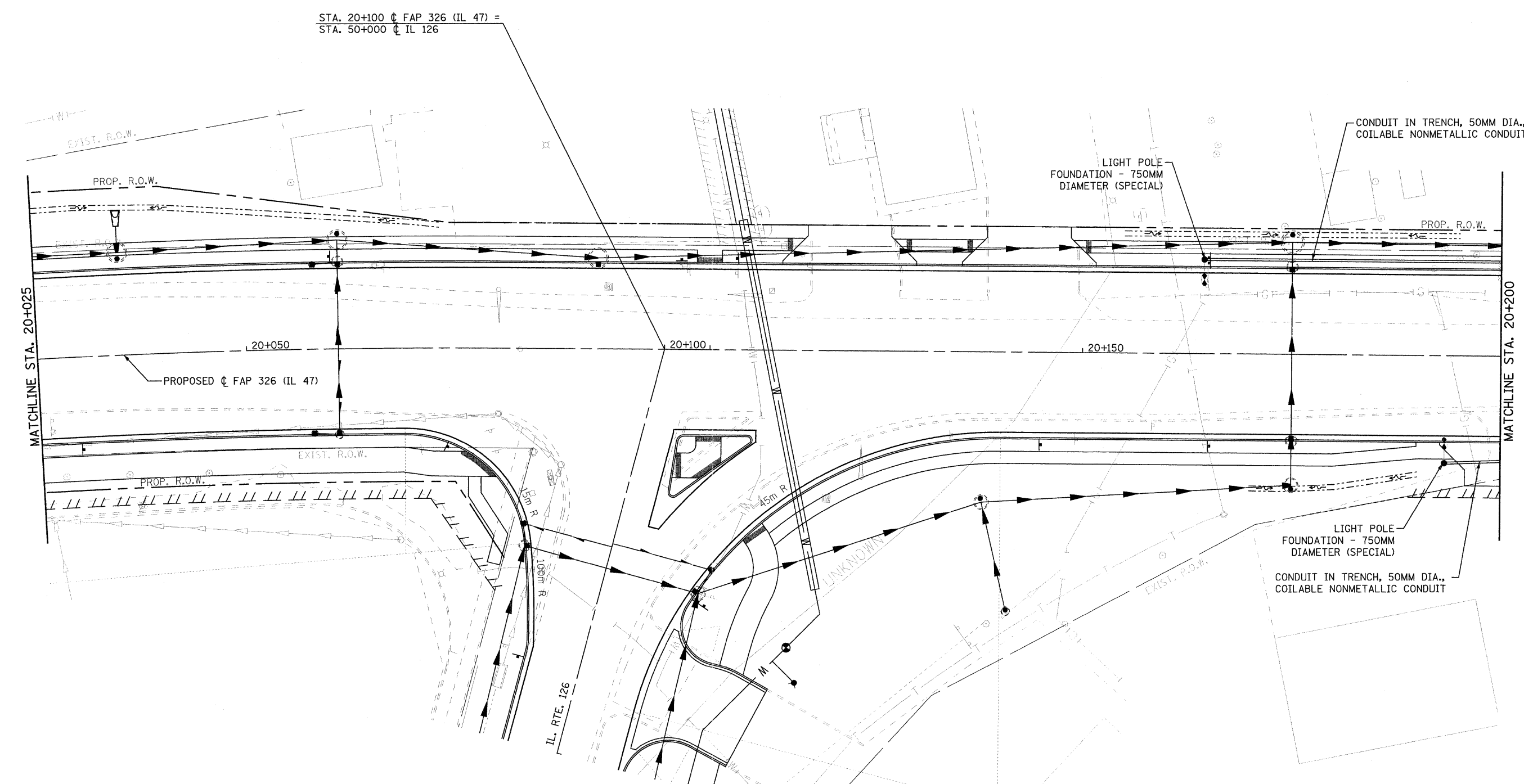
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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SOIL BORING LOG FOR
MAST ARM FOUNDATION
IL. 47 (BRIDGE ST.)/
SOMONAUK ST. & SPRING ST.

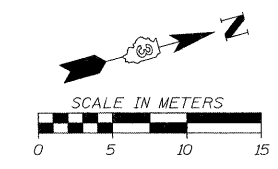
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CHECKED BY: KC

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(5CS,13C,108,109R)	KENDALL	931	648
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



NOTES:

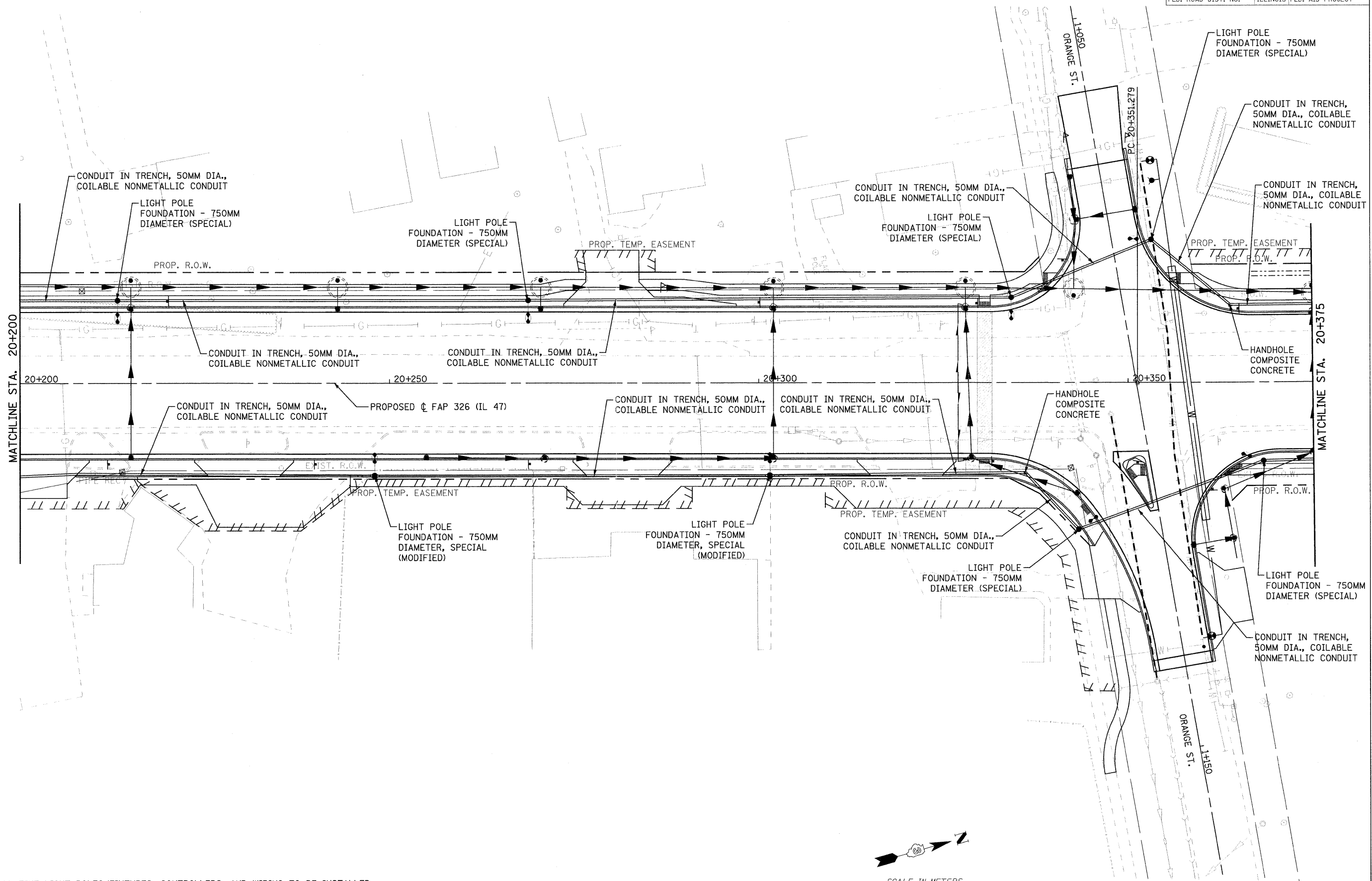
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2. SEE SIGNAL PLANS FOR LIGHTING AT SIGNALIZED INTERSECTIONS



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PLOTTED: 8/11/2011
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Chain: P-11.47

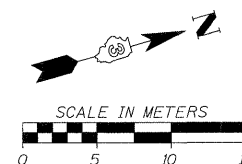
HMG JOB NO. 5122

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(5CS,13C,108,109)R	KENDALL	931	649
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



NOTES:

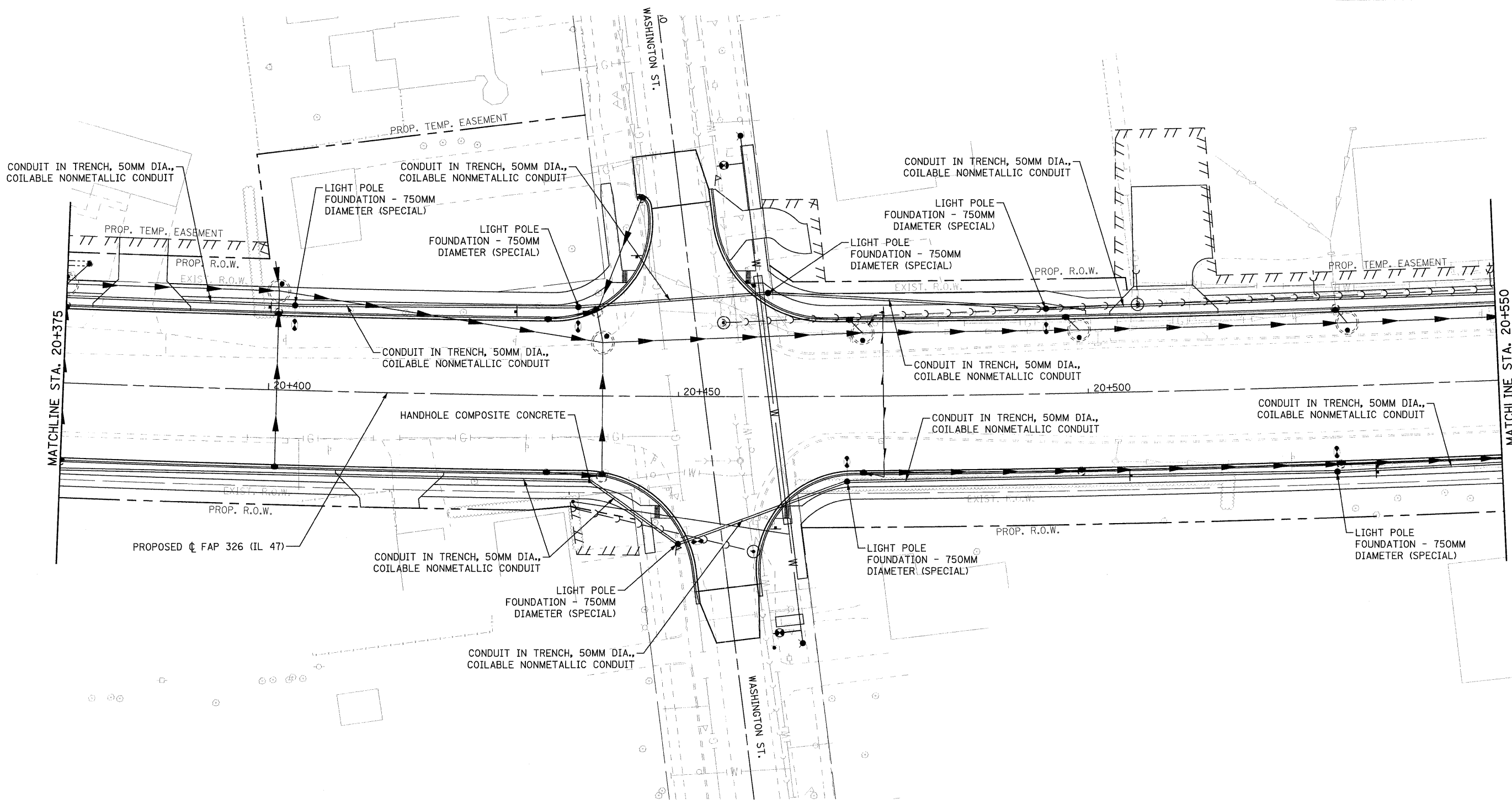
1. DECORATIVE LIGHT POLES/FIXTURES, CONTROLLERS, AND WIRING TO BE INSTALLED BY THE CITY OF YORKVILLE AT A LATER DATE
2. SEE SIGNAL PLANS FOR LIGHTING AT SIGNALIZED INTERSECTIONS



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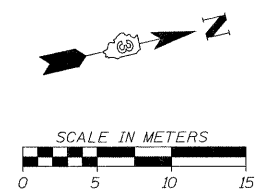
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(6CS,13C,108,109)R	KENDALL	931	650
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



NOTES:

1. DECORATIVE LIGHT POLES/FIXTURES, CONTROLLERS, AND WIRING TO BE INSTALLED BY THE CITY OF YORKVILLE AT A LATER DATE
2. SEE SIGNAL PLANS FOR LIGHTING AT SIGNALIZED INTERSECTIONS

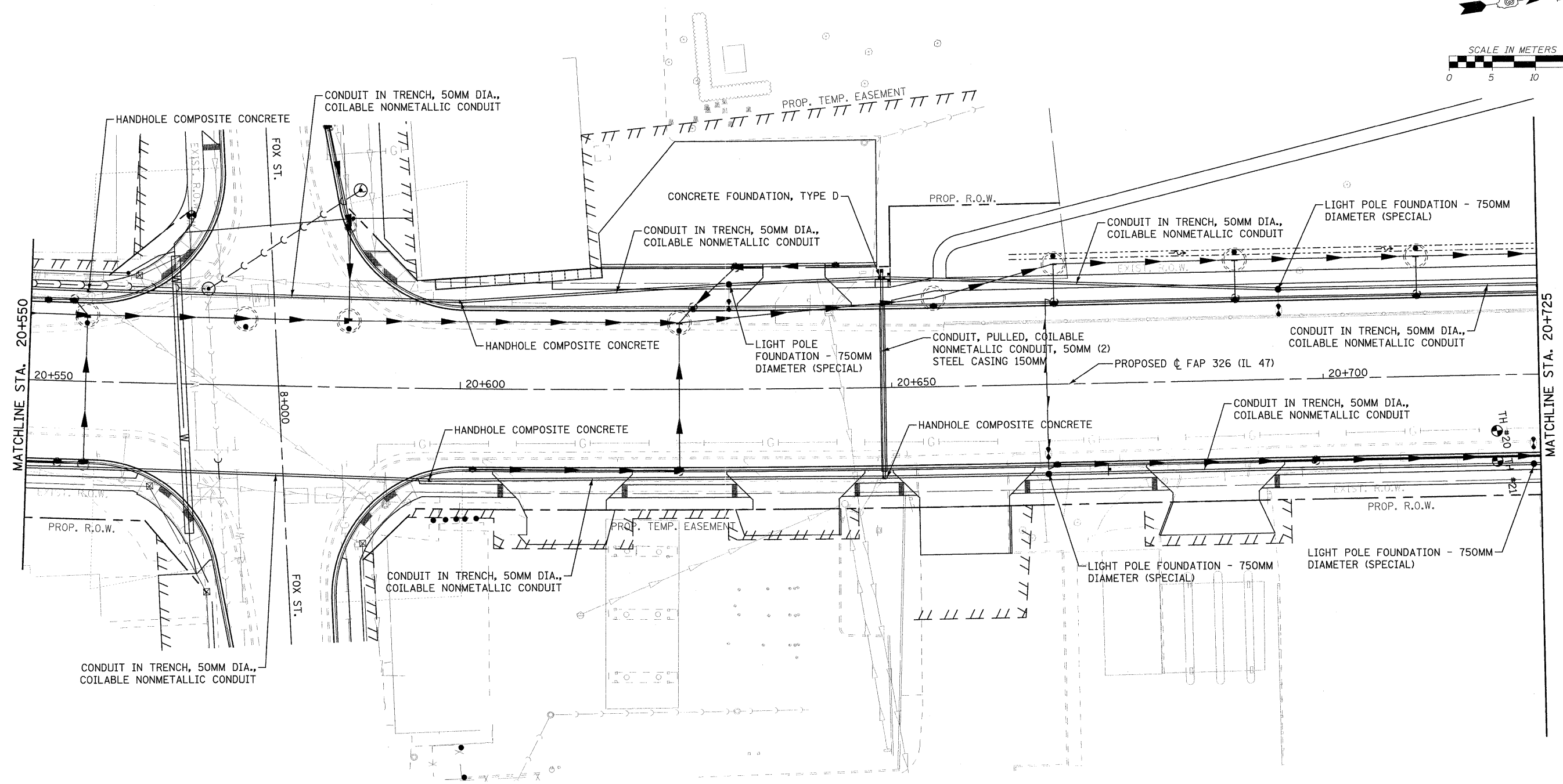
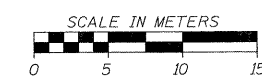


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HMG JOB NO. 5122

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(5CS,13C,108,109)R	KENDALL	931	651
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



NOTES:

1. DECORATIVE LIGHT POLES/FIXTURES, CONTROLLERS, AND WIRING TO BE INSTALLED BY THE CITY OF YORKVILLE AT A LATER DATE
2. SEE SIGNAL PLANS FOR LIGHTING AT SIGNALIZED INTERSECTIONS
3. AT IL 47 CROSSING, TWO (2) 50MM CONDUITS SHALL BE INSTALLED IN 150MM CASING . CASING SHALL BE GROUTED AFTER INSTALLATION OF CONDUIT. LENGTH OF CONDUIT IN CASING SHALL BE PAID FOR AS CONDUIT, PULLED 50MM DIA., COILABLE NONMETALLIC CONDUIT. GROUTING OF CASING SHALL BE INCLUDED IN THE COST OF THE CASING.

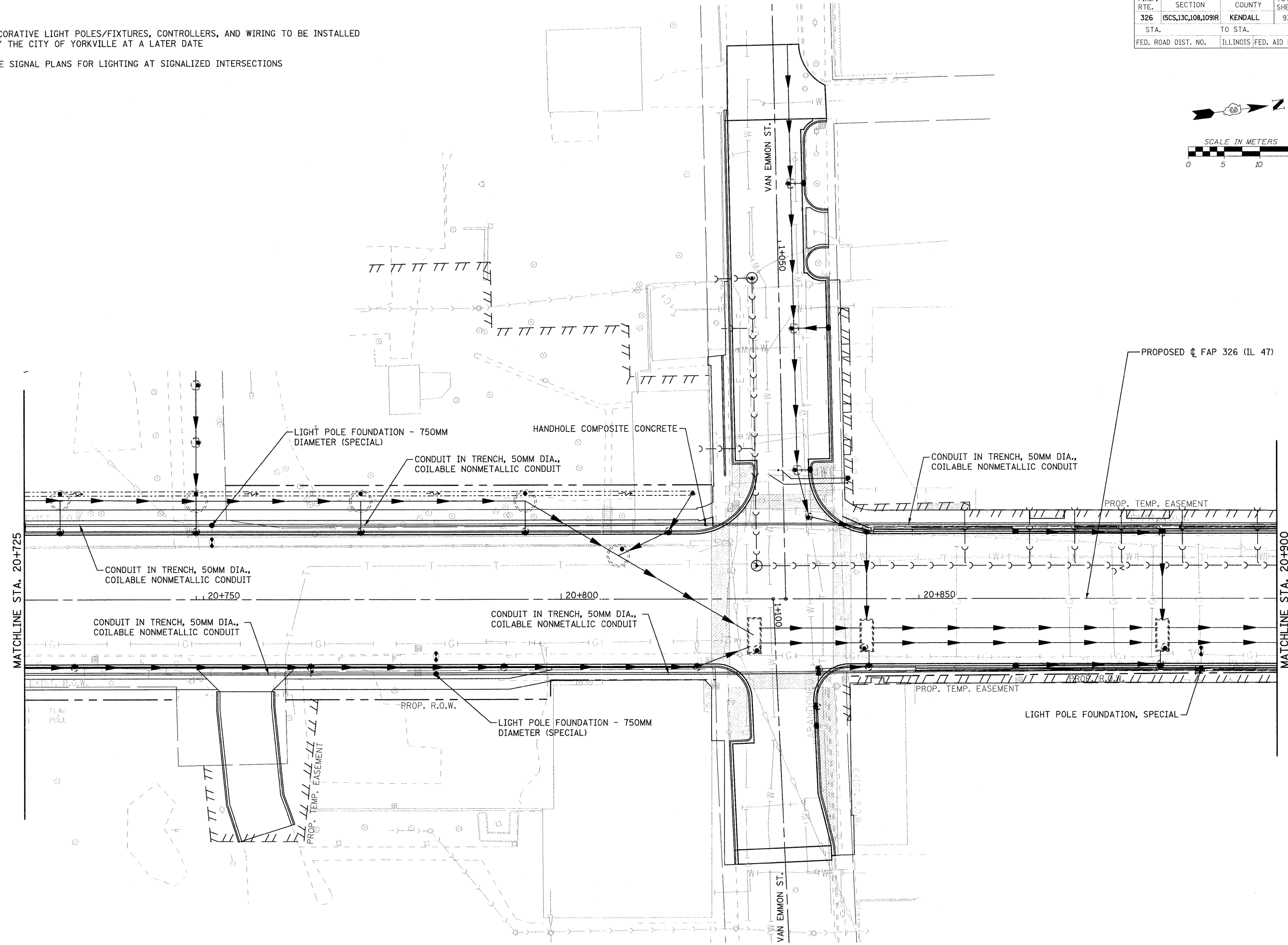
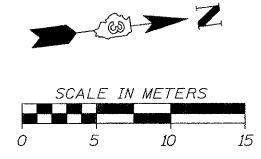
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HMG JOB NO. 5122

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(5CS,13C,108,109)R	KENDALL	931	652
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

NOTES:

- DECORATIVE LIGHT POLES/FIXTURES, CONTROLLERS, AND WIRING TO BE INSTALLED BY THE CITY OF YORKVILLE AT A LATER DATE
- SEE SIGNAL PLANS FOR LIGHTING AT SIGNALIZED INTERSECTIONS

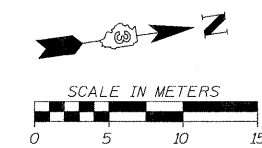
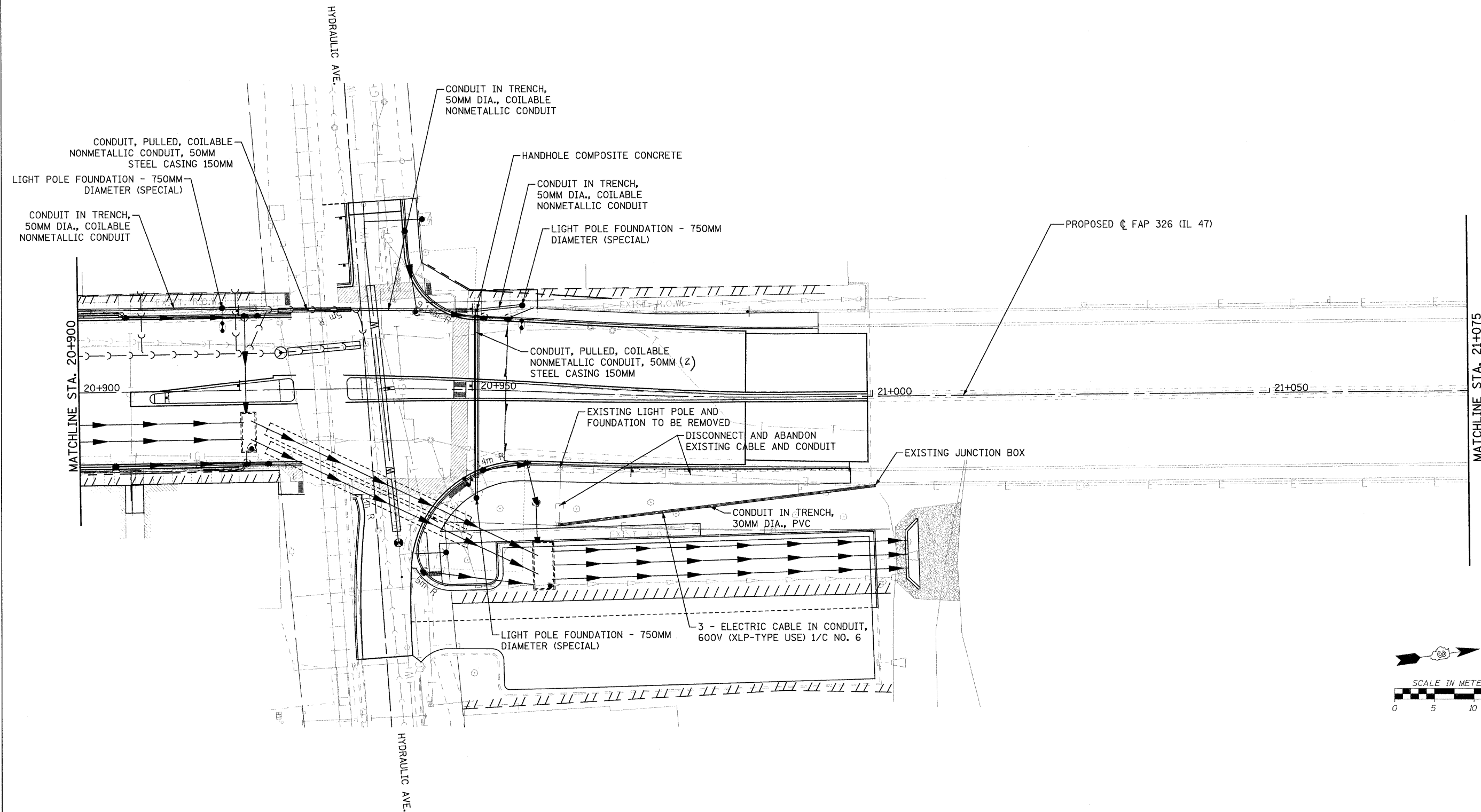


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PLOTTED: 8/11/2011

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Chart: P1147

HMG JOB NO. 5122

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(SCS,13C,108,109)R	KENDALL	931	653
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



NOTES:

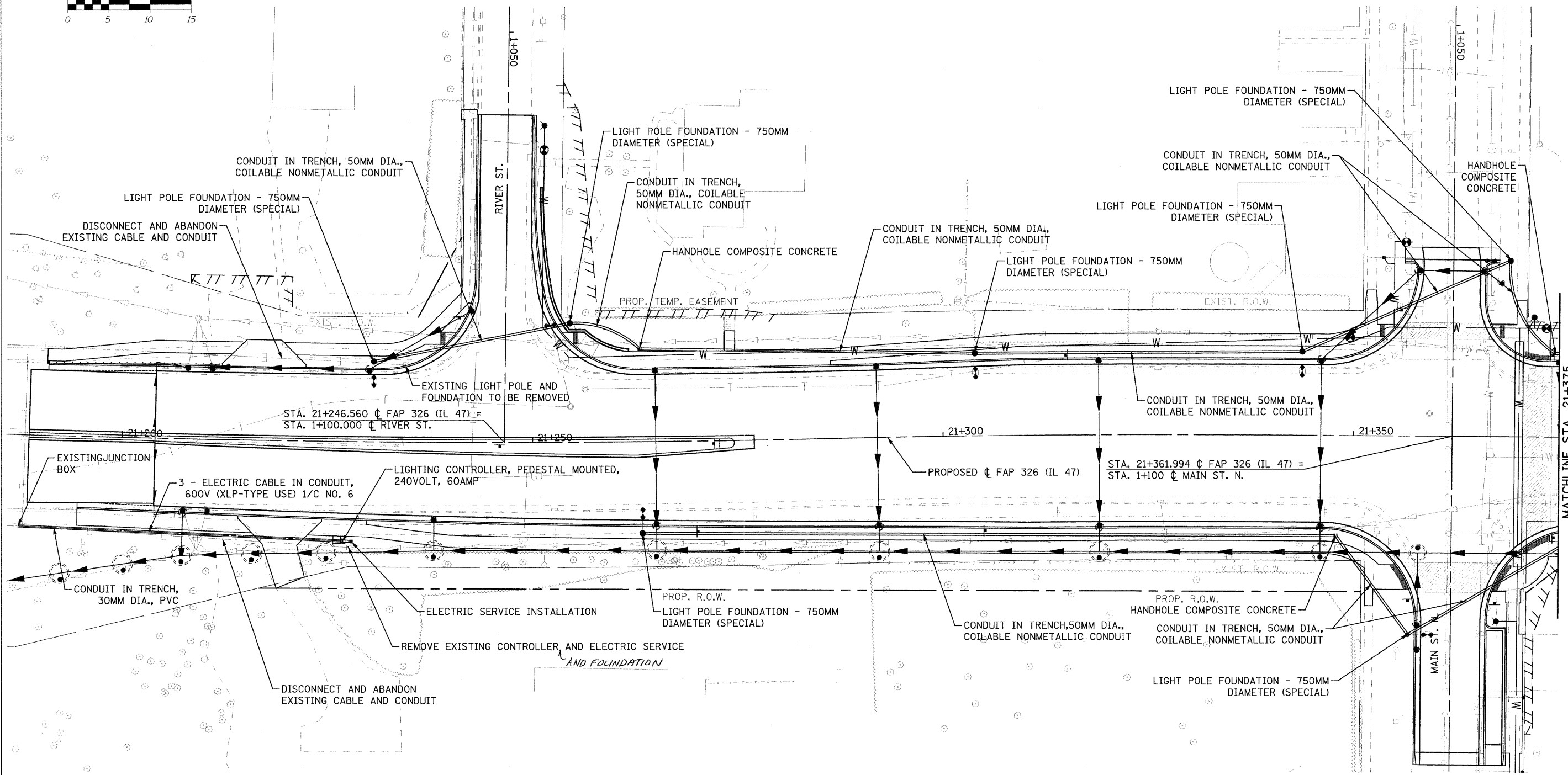
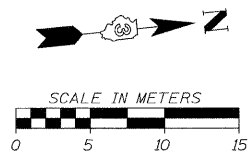
- DECORATIVE LIGHT POLES/FIXTURES, CONTROLLERS, AND WIRING TO BE INSTALLED BY THE CITY OF YORKVILLE AT A LATER DATE
- SEE SIGNAL PLANS FOR LIGHTING AT SIGNALIZED INTERSECTIONS
- AT RAILROAD CROSSING, CONDUIT SHALL BE INSTALLED IN 150MM CASING CONSTRUCTED FOR SEWER BYPASS PUMPING. AT IL 47 CROSSING, TWO (2) 50MM CONDUITS SHALL BE INSTALLED IN 150MM CASING. CASING SHALL BE GROUTED AFTER INSTALLATION OF CONDUIT. LENGTH OF CONDUIT IN CASING SHALL BE PAID FOR AS CONDUIT, PULLED 50MM DIA., COILABLE NONMETALLIC CONDUIT. GROUTING OF CASING SHALL BE INCLUDED IN THE COST OF THE CASING.

FILE: 653lighting18.dgn
PLOTTED: 8/11/2011

HMG JOB NO. 5122

Rev.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(5CS,13C,108,109)R	KENDALL	931	654
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



NOTES:

1. DECORATIVE LIGHT POLES/FIXTURES, CONTROLLERS, AND WIRING TO BE INSTALLED BY THE CITY OF YORKVILLE AT A LATER DATE
2. SEE SIGNAL PLANS FOR LIGHTING AT SIGNALIZED INTERSECTIONS

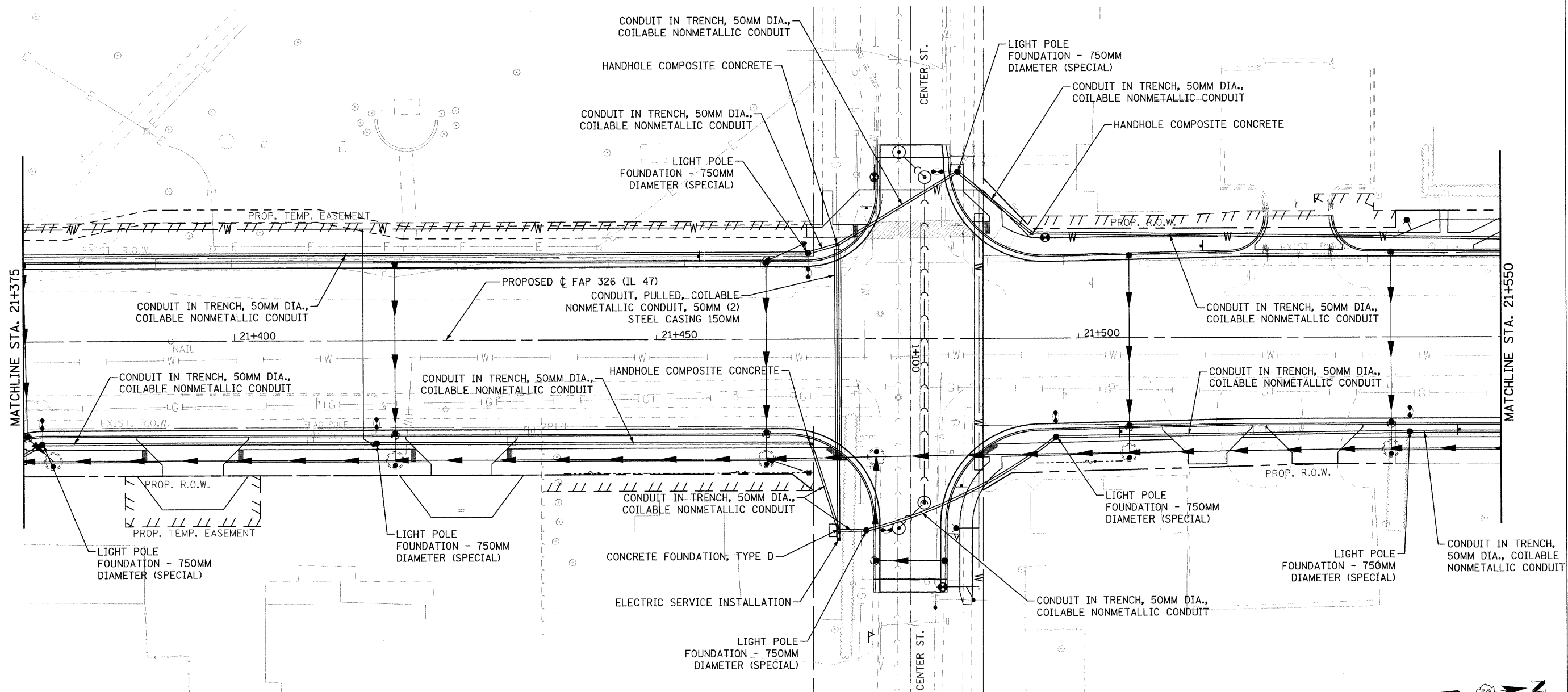
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HMG JOB NO. 5122

Rev.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(5CS,13C,108,109)R	KENDALL	931	655
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



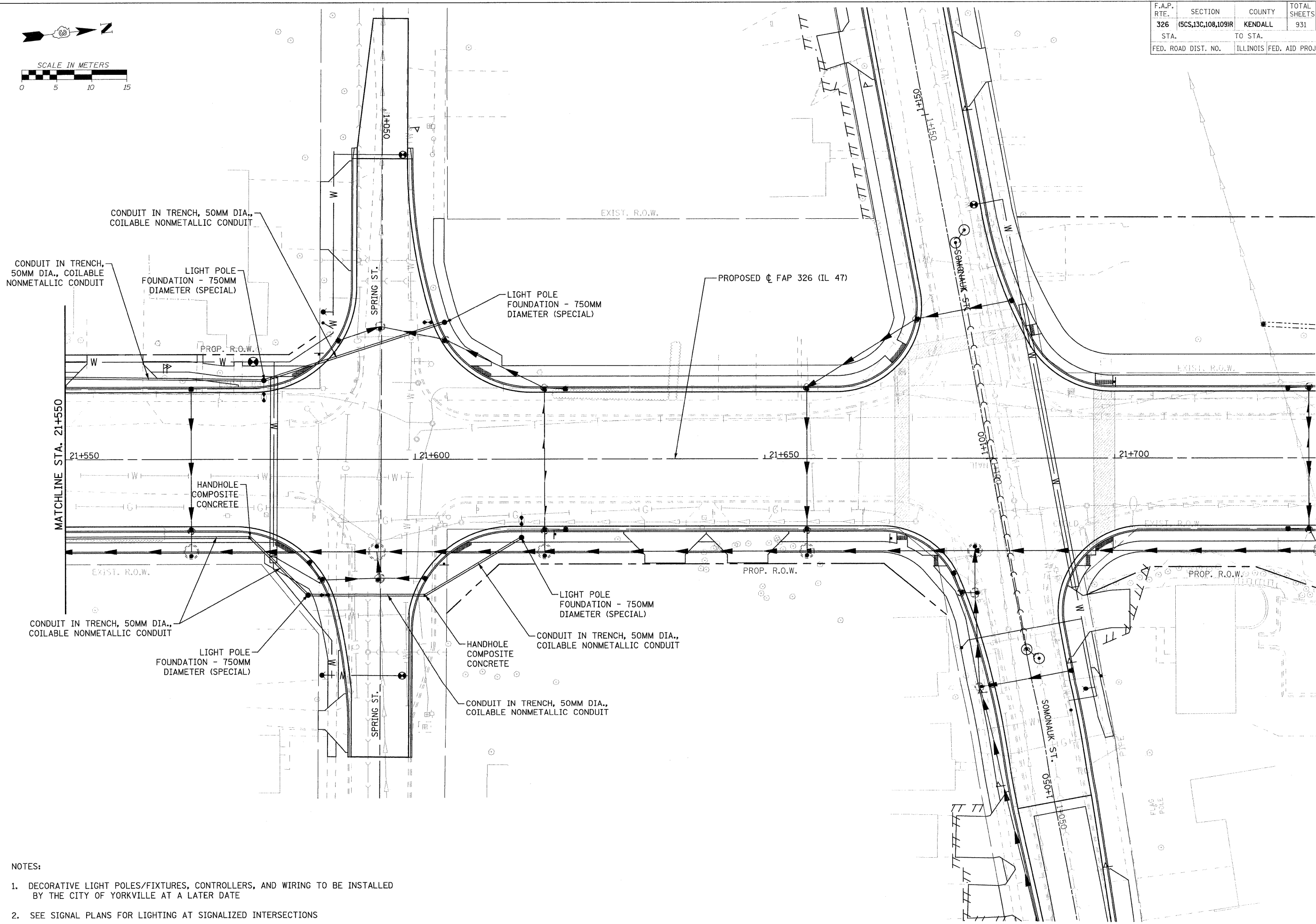
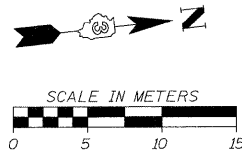
NOTES:

1. DECORATIVE LIGHT POLES/FIXTURES, CONTROLLERS, AND WIRING TO BE INSTALLED BY THE CITY OF YORKVILLE AT A LATER DATE
2. SEE SIGNAL PLANS FOR LIGHTING AT SIGNALIZED INTERSECTIONS
3. AT IL 47 CROSSING, TWO (2) 50MM CONDUITS SHALL BE INSTALLED IN 150MM CASING . CASING SHALL BE GROUTED AFTER INSTALLATION OF CONDUIT. LENGTH OF CONDUIT IN CASING SHALL BE PAID FOR AS CONDUIT, PULLED 50MM DIA., COILABLE NONMETALLIC CONDUIT. GROUTING OF CASING SHALL BE INCLUDED IN THE COST OF THE CASING.

FILE: 655lighting21.dgn
PLOTTED: 8/11/2011

HMG JOB NO. 5122

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(6CS,13C,108,109)R	KENDALL	931	656
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



NOTES:

1. DECORATIVE LIGHT POLES/FIXTURES, CONTROLLERS, AND WIRING TO BE INSTALLED BY THE CITY OF YORKVILLE AT A LATER DATE
2. SEE SIGNAL PLANS FOR LIGHTING AT SIGNALIZED INTERSECTIONS

FILE: 656lighting22.dgn
PLOTTED: 8/11/2011

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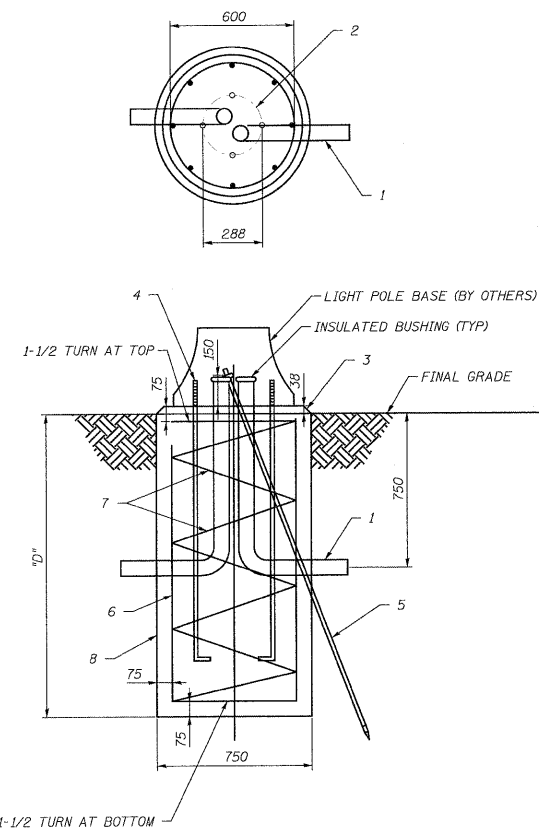
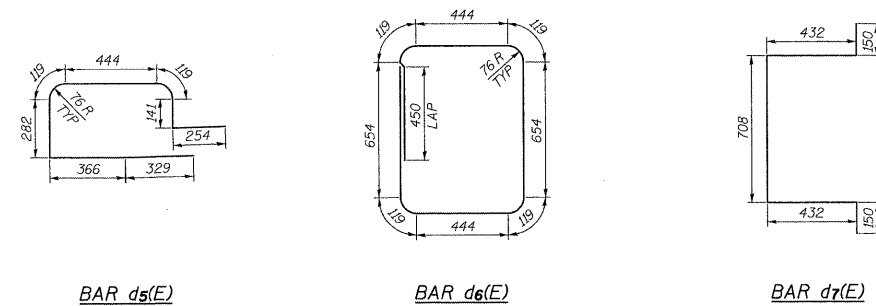
HMS JOB NO. 5122

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(5CS,13C,108,109)R	KENDALL	931	657
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

BAR LIST

Bar	Size	Length	Shape
d ₅ (E)	#16	2.054m	□
d ₆ (E)	#16	3.122m	□
d ₇ (E)	#16	1.872m	□

*Bars shown are those modified for light pole foundation. See barrier detail for standard barrier reinforcement.



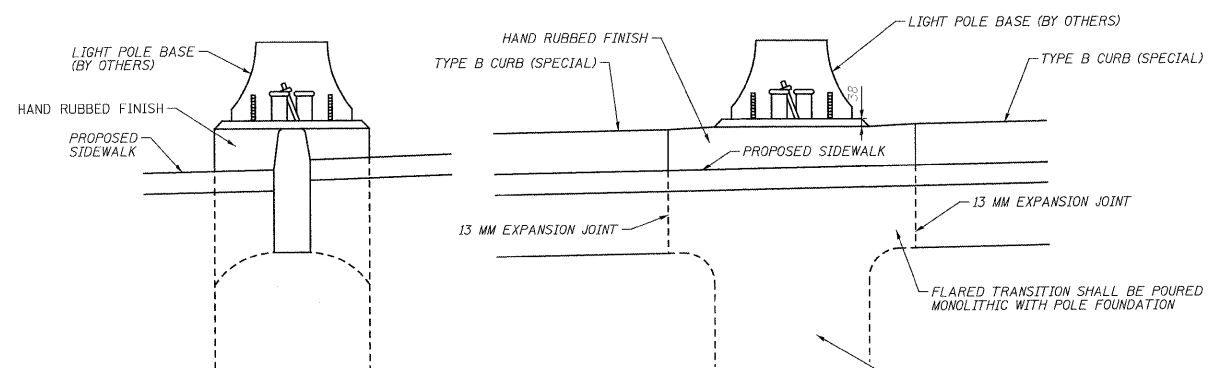
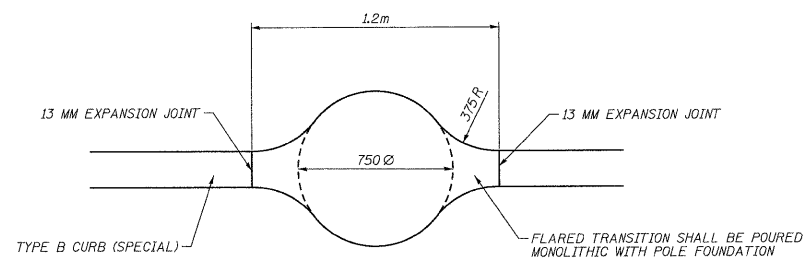
- DUAL 100 MM P.V.C. ELBOW RACEWAYS WITH INSULATED BUSHINGS.
- TEMPLATE DRAWING FOR SETTING OF ANCHOR BOLTS WILL BE FURNISHED BY THE CITY OF YORKVILLE.
- 38 MM CHAMFER.
- 25 MM DIA. GALVANIZED STEEL ANCHOR BOLTS, AS PER POLE MANUFACTURER REQUIREMENTS AND IN ACCORDANCE WITH SECTION 1070.02 OF THE STANDARD SPECIFICATIONS.
- 16 MM X 3.05 M COPPER CLAD GROUND ROD WITH CAD WELDED CONNECTION INSIDE THE LIGHT POLE BASE.
- REINFORCING BARS (AS PER SECTION 1006.10) EQUALLY SPACED ALONG A 600 MM DIA. CIRCLE, FOR NUMBER AND SIZE, SEE FOUNDATION DESIGN CHART.
- #13(#4) SPIRAL TIE BARS WITH 150 MM PITCH.
- CLASS SI CONCRETE.
- 13 MM EXPANSION JOINT MATERIAL SHALL BE PLACED BETWEEN POLE FOUNDATIONS AND CONCRETE SIDEWALKS OR PAVEMENT.

FOUNDATION DESIGN CHART

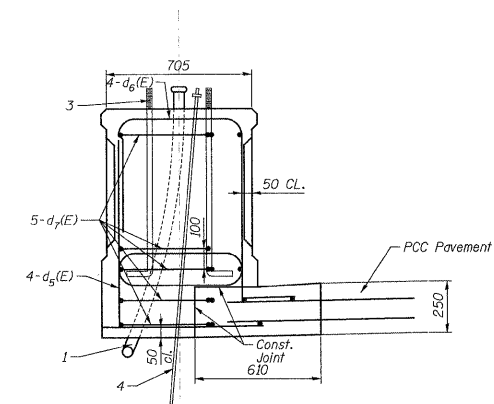
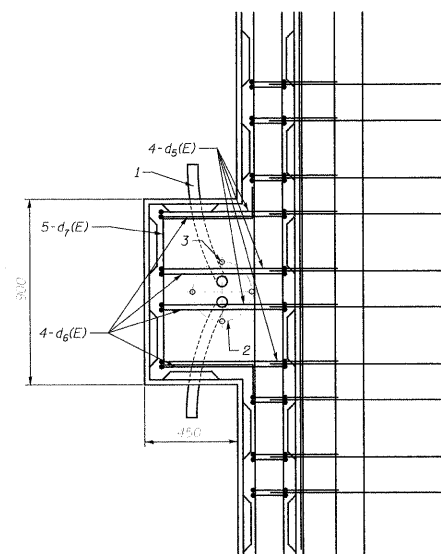
TYPE OF SOIL	DESIGN DEPTH OF FOUNDATION "D" (M)	REINFORCEMENT IN FOUNDATION	
		VERTICAL BARS	SPIRAL
SOFT CLAY	3.3	8-#19 X 3.200 M	#13 X 3.536 M
MEDIUM CLAY	2.7	8-#19 X 2.591 M	#13 X 2.957 M
STIFF CLAY	2.25	8-#19 X 2.134 M	#13 X 2.499 M
LOOSE SAND	2.85	8-#19 X 2.743 M	#13 X 3.109 M
MEDIUM SAND	2.775	8-#19 X 2.667 M	#13 X 3.018 M
DENSE SAND	2.4	8-#19 X 2.286	#13 X 2.652 M
ROCK OR SOLIDIFIED SLAG	1.5	NONE	NONE

NOTE: 3.0 M DEPTH ASSUMED FOR EACH FOUNDATION. ACTUAL DEPTH MAY BE ADJUSTED TO FIT SOIL CONDITIONS AT EACH LOCATION. THE ENGINEER SHALL EXAMINE EACH EXCAVATION IN PROGRESS AND MAKE A DEPTH DETERMINATION.

LIGHT POLE FOUNDATION, 750MM DIAMETER, SPECIAL



LIGHT POLE FOUNDATION, 750MM DIAMETER, SPECIAL (MODIFIED)



LIGHT POLE FOUNDATION, SPECIAL

- DUAL 100 MM P.V.C. ELBOW RACEWAYS WITH INSULATED BUSHINGS.
- TEMPLATE DRAWING FOR SETTING OF ANCHOR BOLTS WILL BE FURNISHED BY THE CITY OF YORKVILLE.
- 25 MM DIA. GALVANIZED STEEL ANCHOR BOLTS, AS PER POLE MANUFACTURER REQUIREMENTS AND IN ACCORDANCE WITH SECTION 1070.02 OF THE STANDARD SPECIFICATIONS.
- 16 MM X 3.05 M COPPER CLAD GROUND ROD WITH CAD WELDED CONNECTION INSIDE THE LIGHT POLE BASE.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<p style="text-align: center;">LIGHTING DETAILS</p> <p style="text-align: right;">DRAWN BY _____ CHECKED BY _____</p> <p style="text-align: right;">DATE _____</p>

Existing Structure: Structure No. 047-0048, built under Section 13D-BR in 1984 along F.A. Route 100, is 189.67m back to back abutments and 22.10m out to out deck. The superstructure consists of 7 spans of 1.37m PPC I-beams supporting 190mm deck. The substructure consists of split thru abutments on piles and solid concrete piers keyed into rock, except Piers 4 and 5 which are supported on steel H piles. The existing structure deck shall be repaired utilizing Stage Construction.

GENERAL NOTES

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

All dimensions are in millimeters (mm) except as noted.

Reinforcement bars designated (E) shall be epoxy coated.

Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

The Contractor shall use extreme care during concrete removal so as not to damage the PPC Deck planks.

The deck surface shall have its final finish tined according to Article 420.09(e)(1) of the Standard Specifications. Cost included with Concrete Superstructures.

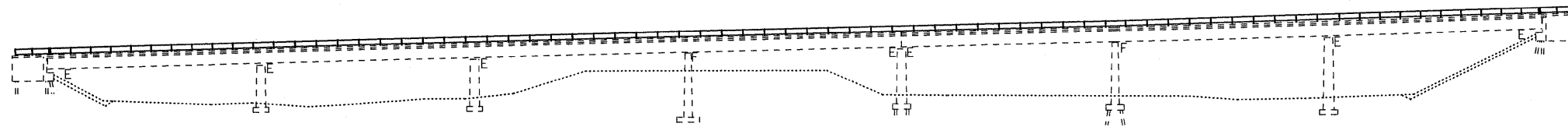
Areas of deck repairs shown are estimated. The Engineer shall show actual locations of deck repairs on As-built Plans.

Joint openings shall be adjusted according to Article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50° F.

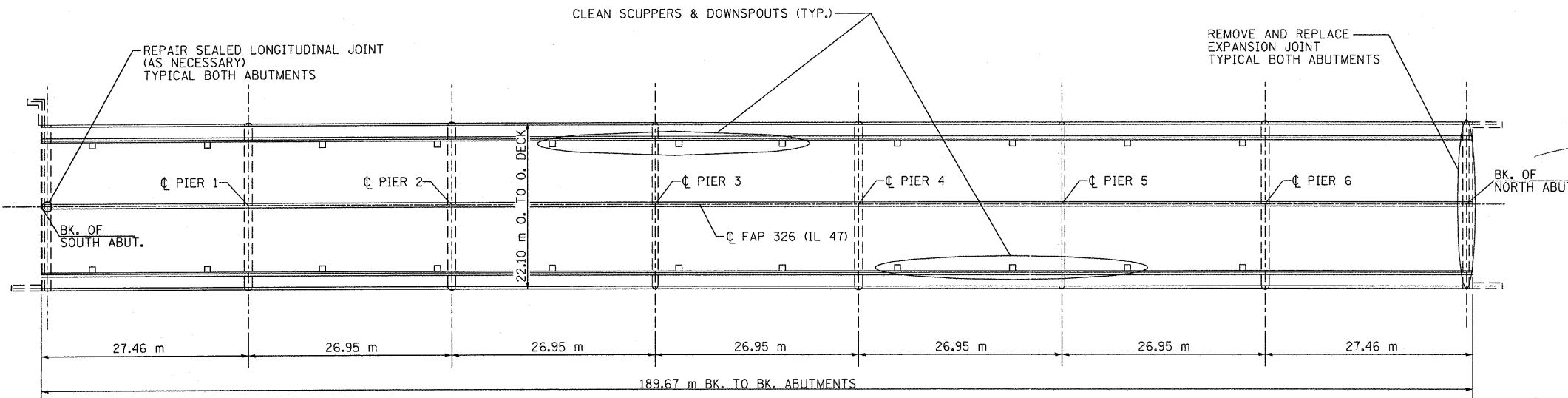
All work shall be performed during the applicable construction stage in which both northbound or both southbound lanes are closed. See roadway construction staging sheets.

Reinforcement bars shall conform to the requirements of ASSHTO M 31M, M 42M or M 53M Grade 400.

All structural steel shall be AASHTO M 270M Grade 345 except expansion joint plates and attached bars which shall be AASHTO M 270M Grade 250.



ELEVATION



PLAN

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
DECK SLAB REPAIR (FULL DEPTH) TYPE I	SQ M	22		22
DECK SLAB REPAIR (FULL DEPTH) TYPE II	SQ M	37		37
CONCRETE REMOVAL	CU M	11.0		11.0
CONCRETE SUPERSTRUCTURE	CU M	11.1		11.1
REINFORCEMENT BARS EPOXY COATED	KG	970		970
PREFORMED JOINT STRIP SEAL	METER	45		45
SILICONE JOINT SEALER, 25mm	METER	2		2
CLEANING BRIDGE SCUPPERS & DOWNSPOUTS	EACH	22		22



David Carl Puze 10/11/11
Expires 11/30/12

FILE NAME =	USER NAME = dunoenbd	DESIGNED - BDD	REVISED - BDD 04/18/11	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN AND ELEVATION STRUCTURE NO 047-0048			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pw_work\p\dot\dunoenbd\08170917\192-structure repair.dgn	DRAWN - BDD	REVISIONS -			326	(5CS,13C,108,109)R	KENDALL	931	658			
PLOT SCALE = 50.0000' / 1" =	CHECKED - IJL	REVISIONS -			CONTRACT NO. 66671							
PLOT DATE = 8/16/2011	DATE - 02/23/11	REVISIONS -			SCALE:	SHEET NO. 1 OF 7 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT				

DECK PATCHING SCHEDULE				
PATCH NO.	SQ FT	DECK SLAB REPAIR (PD)	DECK SLAB REPAIR (FD TY 1)	DECK SLAB REPAIR (FD TY 2)
		SQ M	SQ M	SQ M
1	1		0.09	
2	1		0.09	
3	6			0.56
4	3		0.28	
5	6			0.56
6	1		0.09	
7	1		0.09	
8	28			2.60
9	2		0.19	
10	1		0.09	
11	1		0.09	
12	1		0.09	
13	5		0.46	
14	6			0.56
15	3		0.28	
16	2		0.19	
17	2		0.19	
18	1		0.09	
19	2		0.19	
20	24			2.23
21	4		0.37	
22	4		0.37	
23	4		0.37	
24	6			0.56
25	6			0.56
26	1		0.09	
27	6			0.56
28	2		0.19	
29	2		0.19	
30	2		0.19	
31	4		0.37	
32	4		0.37	
33	8			0.74
34	1		0.09	
35	1		0.09	
36	1		0.09	
37	1		0.09	
38	1		0.09	
39	6			0.56
40	6			0.56
41	6			0.56

(CONTINUED)				
42	3		0.28	
43	1		0.09	
44	1		0.09	
45	2		0.19	
46	1		0.09	
47	2		0.19	
48	3		0.28	
49	4		0.37	
50	34			3.16
51	3		0.28	
52	33			3.07
53	2		0.19	
54	3		0.28	
55	3		0.28	
56	2		0.19	
57	4		0.37	
58	1		0.09	
59	4		0.37	
60	1		0.09	
61	2		0.19	
62	16			1.49
63	1		0.09	
64	8			0.74
65	23			2.14
66	2		0.19	
67	9			0.84
68	1		0.09	
69	6			0.56
70	6			0.56
71	3		0.28	
72	10			0.93
73	3		0.28	
74	1		0.09	
75	2		0.19	
76	4		0.37	
77	2		0.19	
78	5		0.46	
79	6			0.56
80	1		0.09	
81	1		0.09	
82	6			0.56
83	12			1.11
84	9			0.84
85	4		0.37	
86	2		0.19	
87	2		0.19	
88	4		0.37	

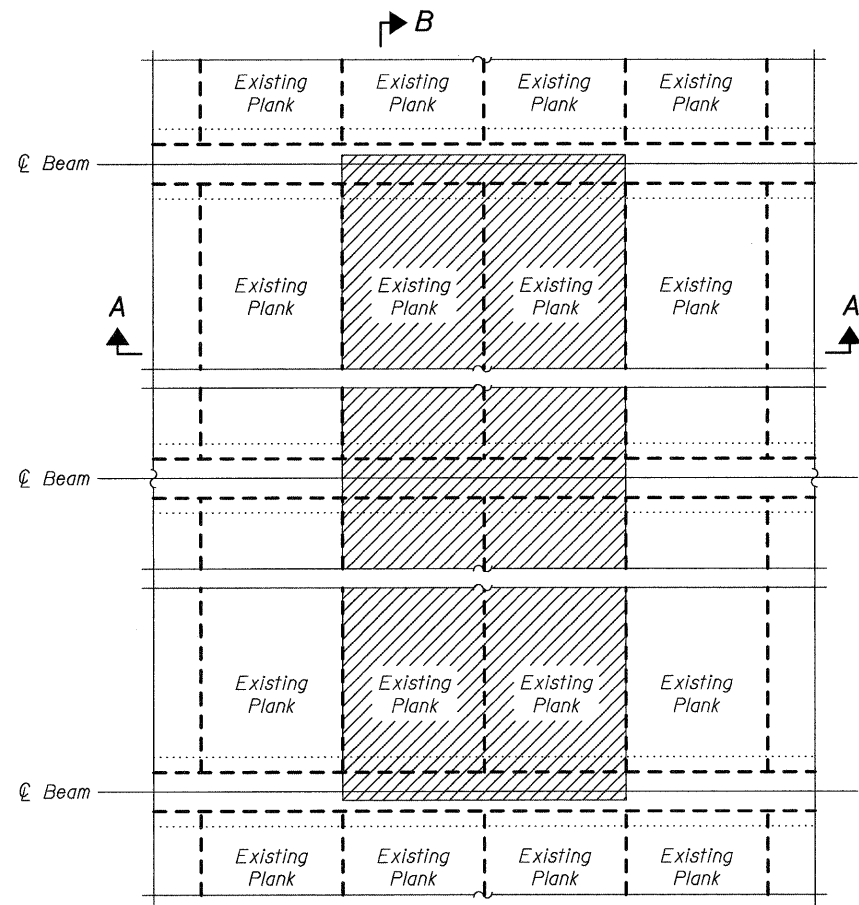
(CONTINUED)				
89	5		0.46	
90	3		0.28	
91	5		0.46	
92	10			0.93
93	1		0.09	
94	12			1.11
95	3		0.28	
96	1		0.09	
97	7			0.65
98	4		0.37	
99	2		0.19	
100	1		0.09	
101	3		0.28	
102	4		0.37	
103	2		0.19	
104	4		0.37	
105	2		0.19	
106	1		0.09	
107	6			0.56
108	3		0.28	
109	4		0.37	
110	25			2.32
111	3		0.28	
112	6			0.56
113	12			1.11
114	4		0.37	
115	1		0.09	
116	4		0.37	
117	1		0.09	
118	1		0.09	
119	2		0.19	
120	2		0.19	
121	3		0.28	
122	1		0.09	
123	1		0.09	
124	30			2.79
125	2		0.19	
126	4		0.37	
127	3		0.28	
128	1		0.09	
129	1		0.09	
130	2		0.19	
131	4		0.37	
132	7			0.65
TOTALS	634	0	22	37

1.8% OF THE TOTAL DECK AREA TO BE REPAIRED (NOT INCLUDING SIDEWALKS)

NOTE:

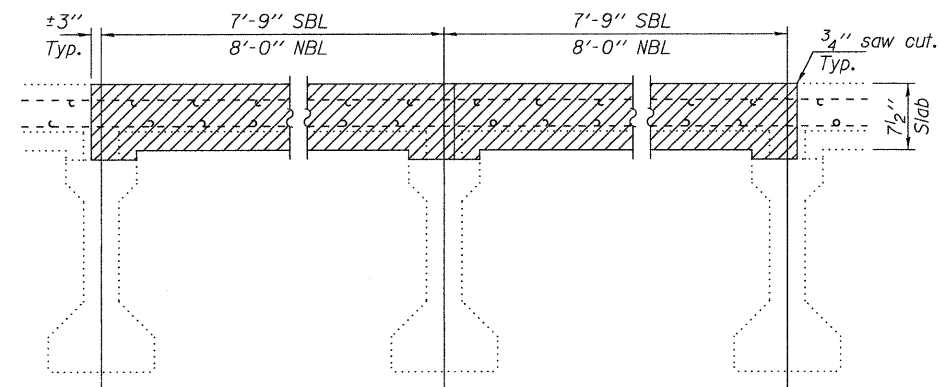
All deck slab repair in the deck area over the planks shall be paid for as Deck Slab Repair (Full Depth). However, the removal of the existing concrete shall only be to the existing PPC plank. This area shall then be cleaned and the plank inspected for deterioration. If deterioration is found, the entire plank shall be removed and replaced with a full depth patched area with the proper reinforcement detailed, as shown on sheets 2A and 2B of this work will be paid for as Deck Slab Repair (Full Depth, Type II). The Contractor shall take all necessary precautions to protect the PCC planks from getting damaged during deck slab repair. Should the planks be damaged, the entire plank area shall be removed and replaced with proper reinforcement as approved by the Engineer, at the expense of the Contractor.

FILE NAME =	USER NAME = duncanbd	DESIGNED - BDD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DECK SLAB REPAIR STRUCTURE NO 047-0048	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ca\pw\work\p\idat\duncanbd\0170917\p30	192-structure repair.dgn	DRAWN - BDD	REVISED -			326	(SCS,13C,108,109)R	KENDALL	931	659	
	PLOT SCALE = 50.0000' / in.	CHECKED - IJL	REVISED -			CONTRACT NO. 66671					
	PLOT DATE = 8/16/2011	DATE - 02/23/11	REVISED -			SCALE:	SHEET NO. 2 OF 7 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	

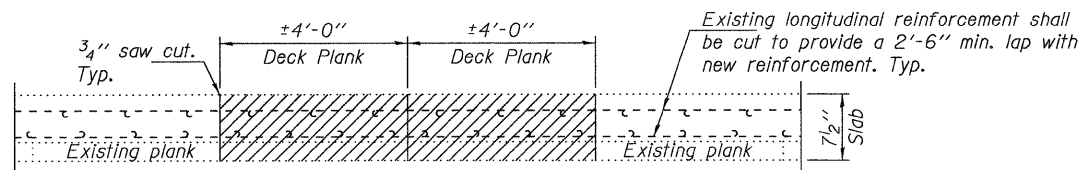


PLAN

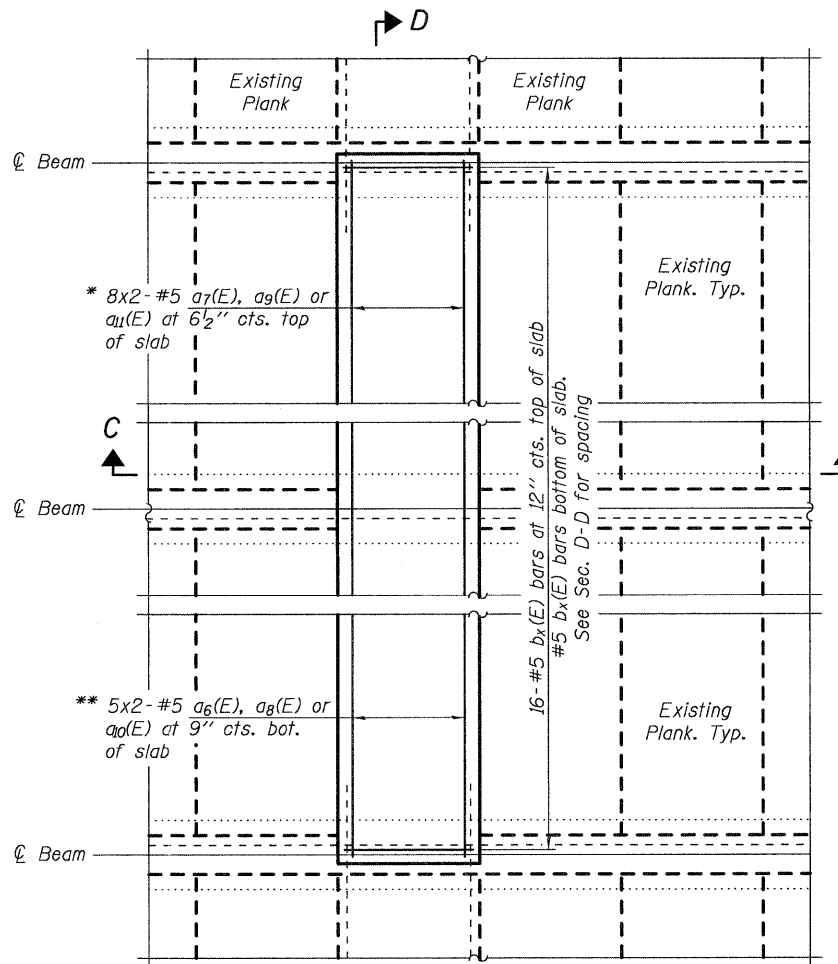
Hatched areas indicate removal.



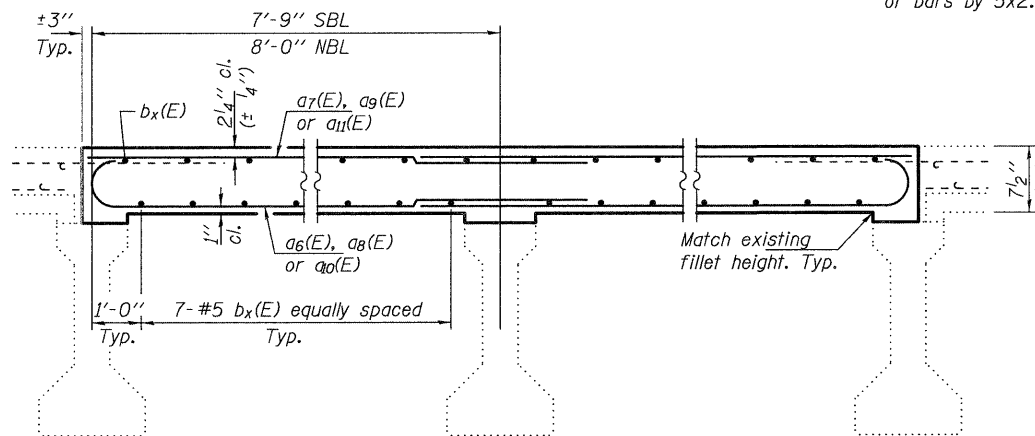
SECTION B-B



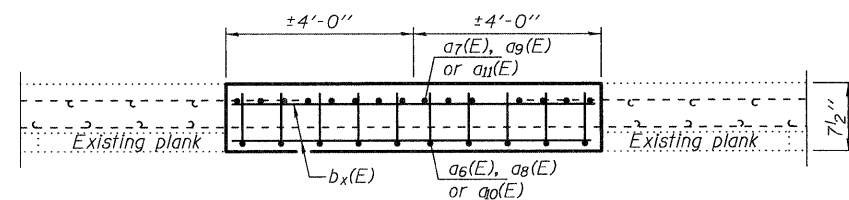
SECTION A-A



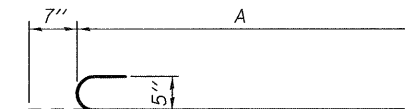
PLAN



SECTION D-D



SECTION C-C



BARS a6(E), a8(E) & a10(E)

Bar	A
a6(E)	5'-4"
a8(E)	9'-4"
a10(E)	13'-4"

MINIMUM BAR LAP

#5 bar = 2'-6"

No. Planks	x
1	1
2	2
3	3

No. of planks to be replaced along the length of the bridge

* The number of a7(E), a9(E) & a11(E) bars shown is for one 4'-0" plank replacement. For each consecutive plank replaced, increase the number of bars by 8x2.

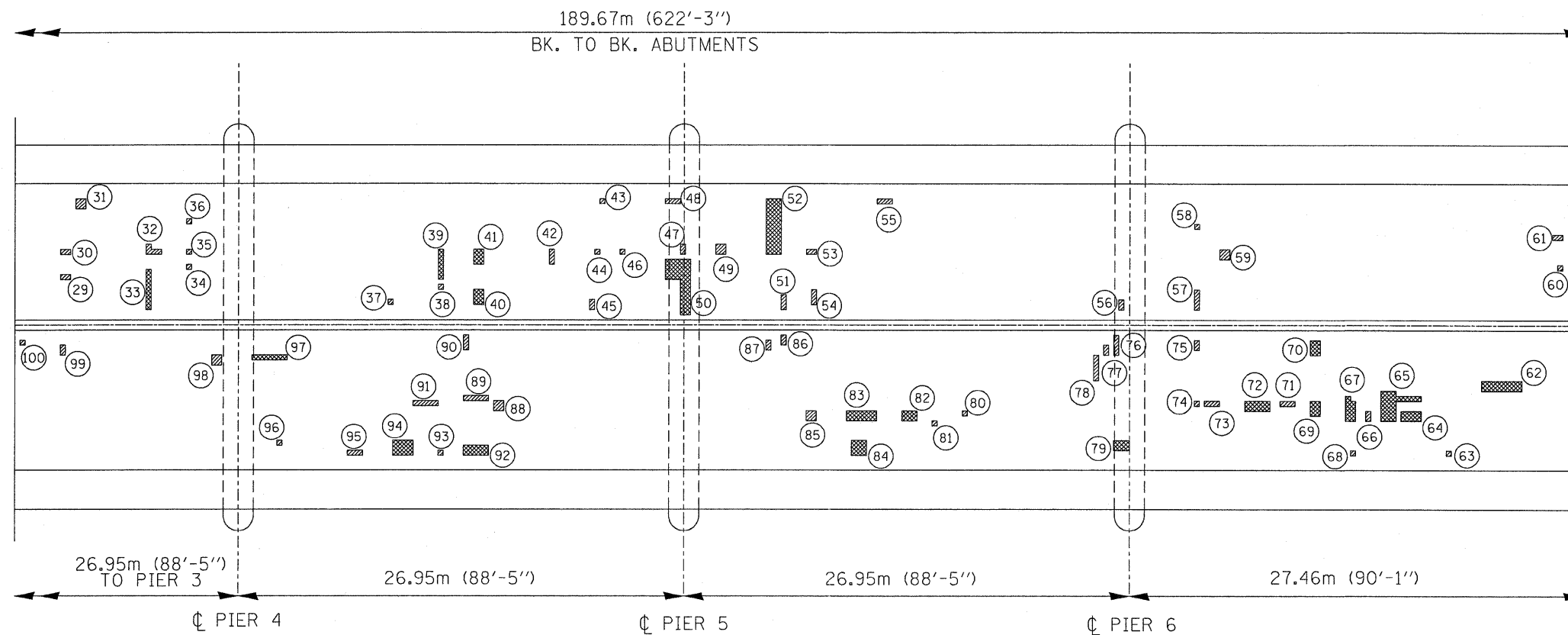
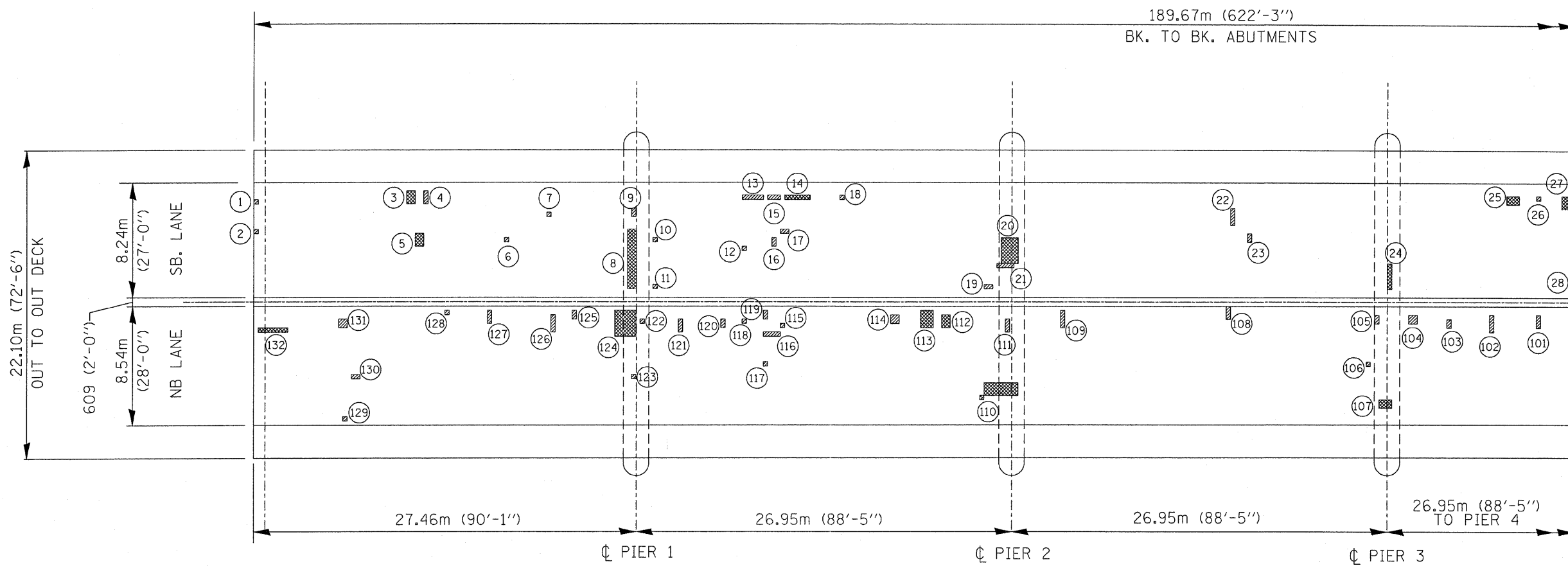
** The number of a6(E), a8(E) & a10(E) bars shown is for one 4'-0" plank replacement. For each consecutive plank replaced, increase the number of bars by 5x2.

For notes, see sheet 659A.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a6(E)	10	#5	5'-11"	—
a7(E)	16	#5	5'-4"	—
a8(E)	10	#5	9'-11"	—
a9(E)	16	#5	9'-4"	—
a10(E)	10	#5	13'-11"	—
a11(E)	16	#5	13'-4"	—
b1(E)	30	#5	3'-8"	—
b2(E)	30	#5	7'-8"	—
b3(E)	30	#5	11'-8"	—

Bars indicated thus 8 x 2-#5 etc. indicates 8 lines of bars with 2 lengths per line.

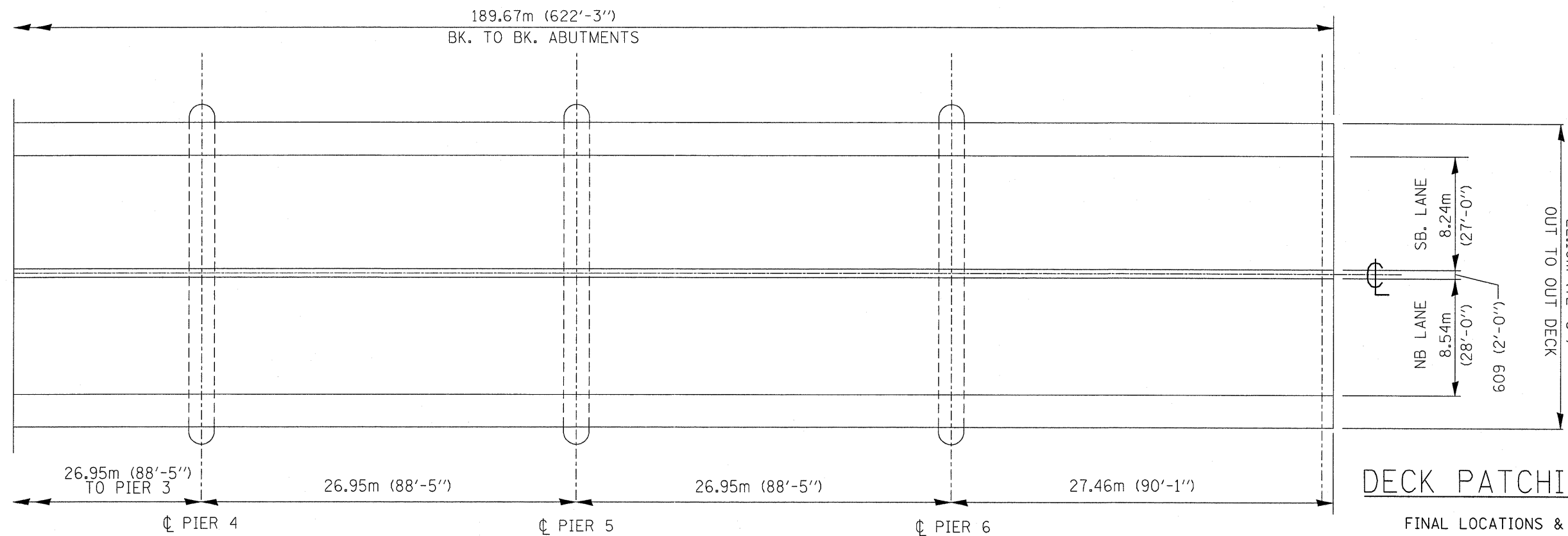
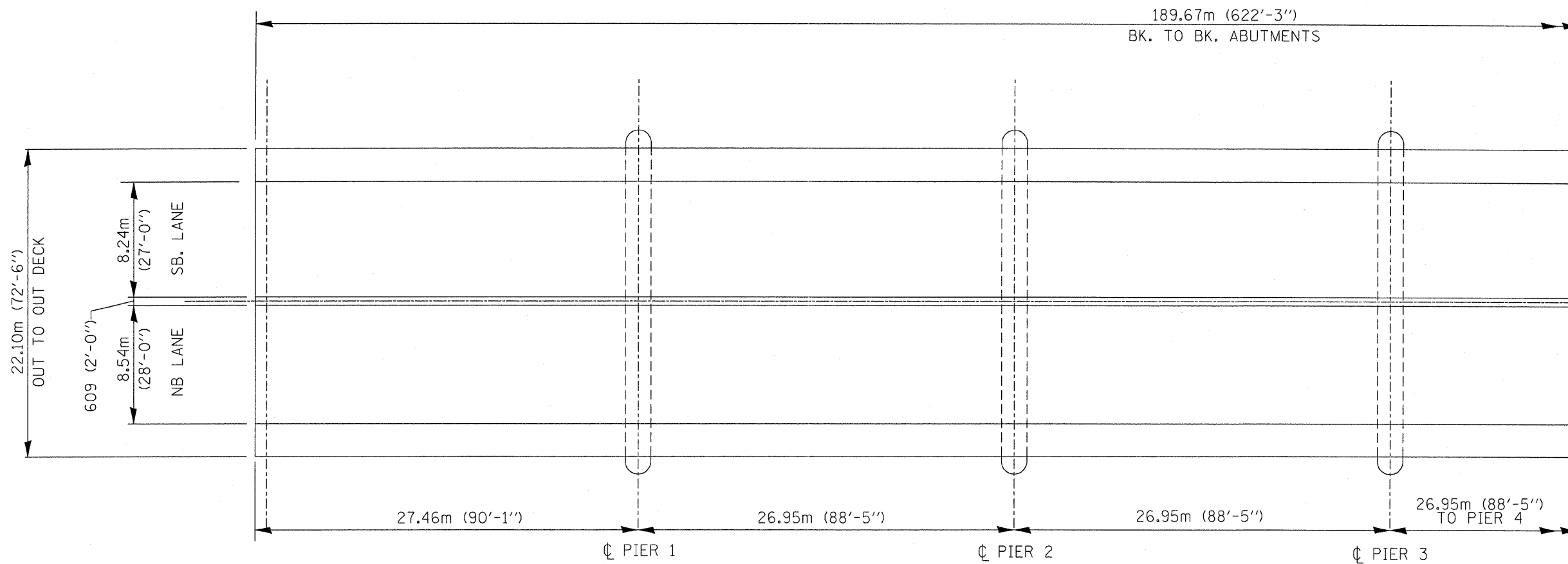


- DECK SLAB REPAIR (FULL DEPTH) TYPE I
- DECK SLAB REPAIR (FULL DEPTH) TYPE II

DECK PATCHING PLAN

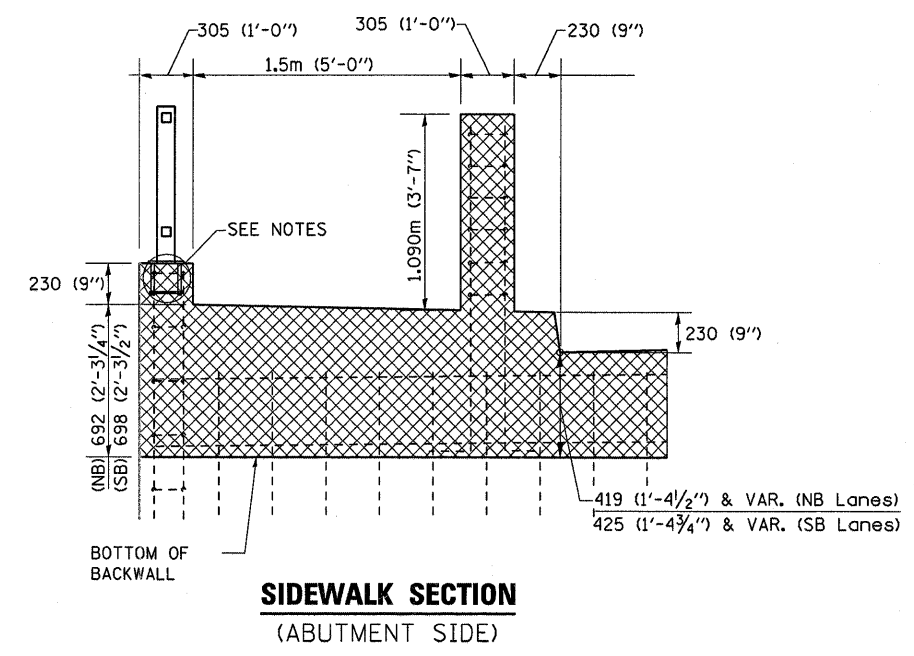
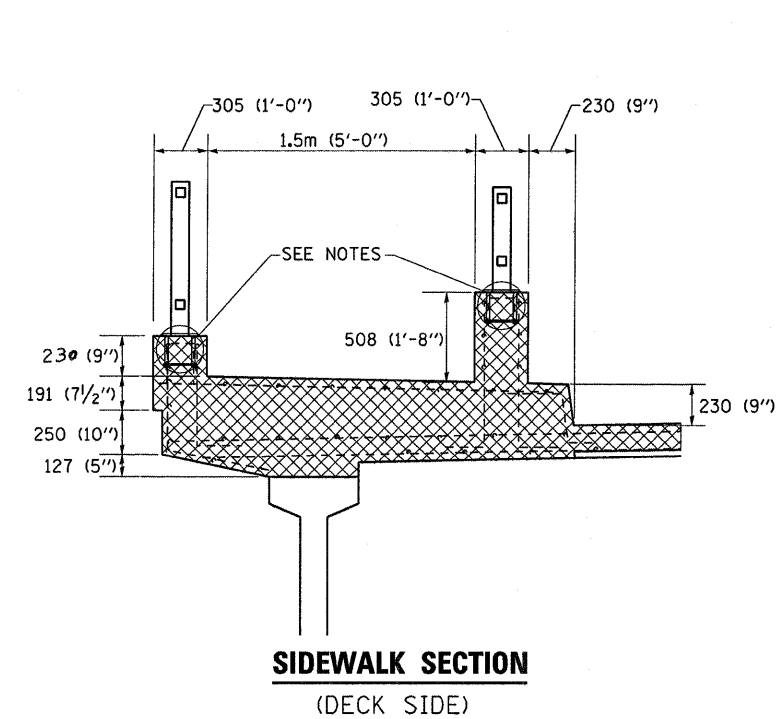
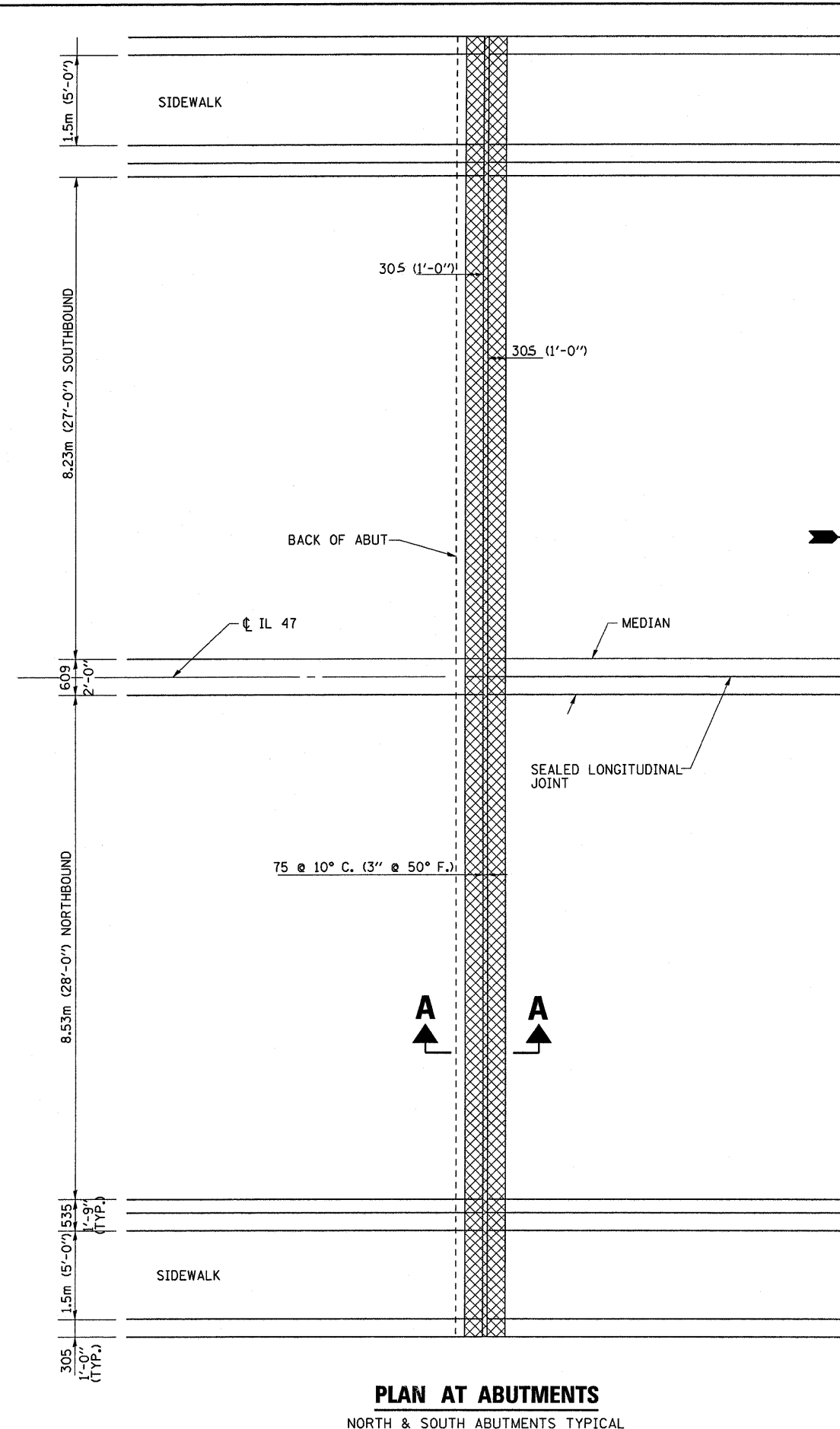
DECK SURVEY DATE: 03/31/2010
COMPLETED BY: DISTRICT

FILE NAME =	USER NAME = duncanbd	DESIGNED - BDD	REVISED - BDD 04/18/11	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DECK SLAB REPAIR STRUCTURE NO 047-0048	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT SCALE = 50.0000' / in.	CHECKED - IJL	REVISIED -	REVISED -		SCALE: SHEET NO. 3 OF 7 SHEETS STA. TO STA.		CONTRACT NO. 66671		ILLINOIS FED. AID PROJECT	
PLOT DATE = 8/16/2011	DATE - 02/23/11	REVISED -	REVISED -							



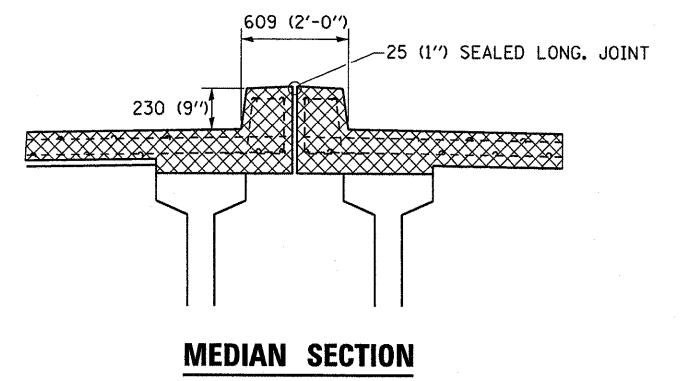
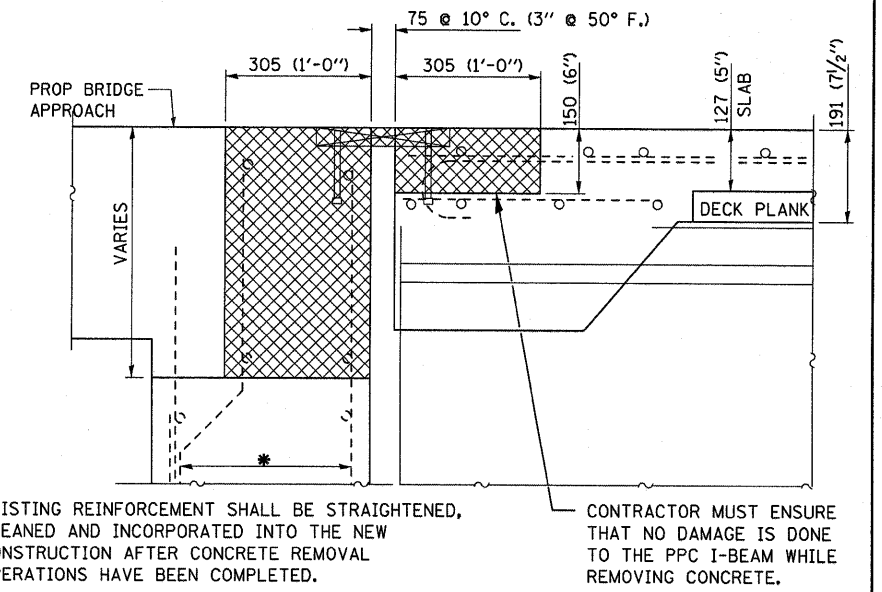
DECK PATCHING PLAN
FINAL LOCATIONS & QUANTITIES

FILE NAME =	USER NAME = duncanbd	DESIGNED - BDD	REVISED - BDD 04/18/11	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DECK SLAB REPAIR (AS BUILT) STRUCTURE NO 047-0048	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pwork\pwork\duncanbd\0170917\F30	192-structure_repair.dgn	DRAWN - BDD	REVISED -			326	(5CS,13C,108,109)R	KENDALL	931	661	
	PLOT SCALE = 50.0000 / in.	CHECKED - IJL	REVISED -			CONTRACT NO. 66671					
	PLOT DATE = 8/16/2011	DATE - 02/23/11	REVISED -			ILLINOIS FED. AID PROJECT					
					SCALE:	SHEET NO. 4 OF 7 SHEETS		STA.	TO STA.		



BILL OF MATERIAL

ITEM	UNIT	TOTAL
CONCRETE REMOVAL	CU M	11.0



NOTE:

CROSSED HATCHED AREA REPRESENTS CONCRETE REMOVAL AND REPLACEMENT AREAS.

THE CONTRACTOR SHALL EXERCISE EXTREME CARE WHEN REMOVING AND REPLACING CONCRETE SO THAT THE EXISTING PPC DECK PLANKS ARE NOT DAMAGED. IF THE EXISTING DECK PLANKS ARE DAMAGED DUE TO THE CONTRACTOR'S OPERATION, THE DAMAGED PLANK SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

COST FOR REMOVAL OF EXISTING EXPANSION JOINT MATERIALS SHALL BE INCLUDED WITH "CONCRETE REMOVAL"

EXISTING PLATES AND STUDS FOR THE BICYCLE RAILING SHALL REMAIN IN PLACE WHEN PRESENT. IF THE BICYCLE RAIL ASSEMBLY IS DAMAGED DUE TO THE CONTRACTOR'S REMOVAL OPERATIONS, THE ASSEMBLY SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. THE EXISTING ASSEMBLY SHALL BE CLEANED AND INCORPORATED INTO THE NEW CONSTRUCTION.

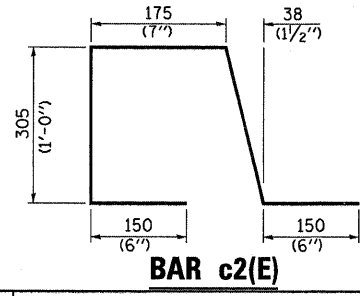
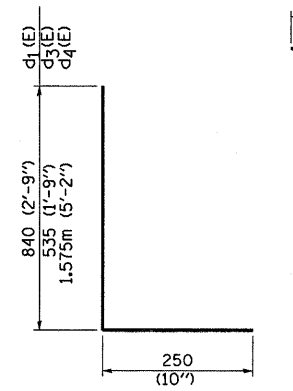
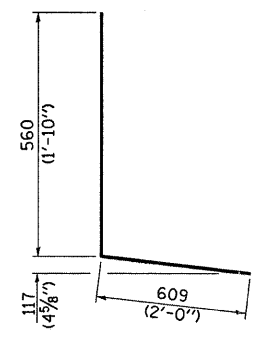
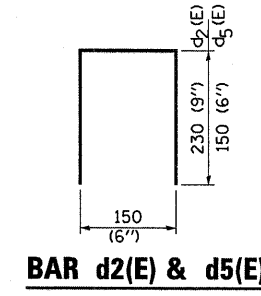
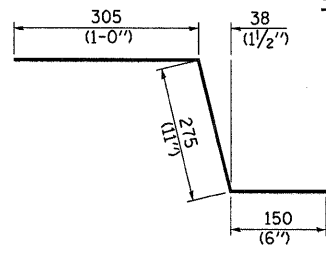
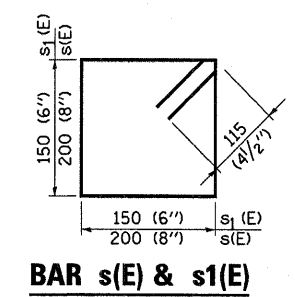
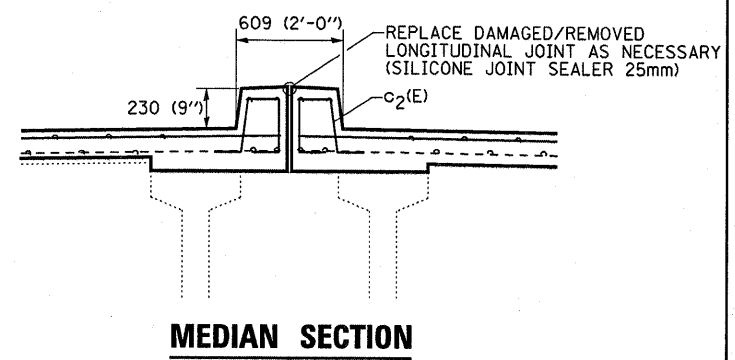
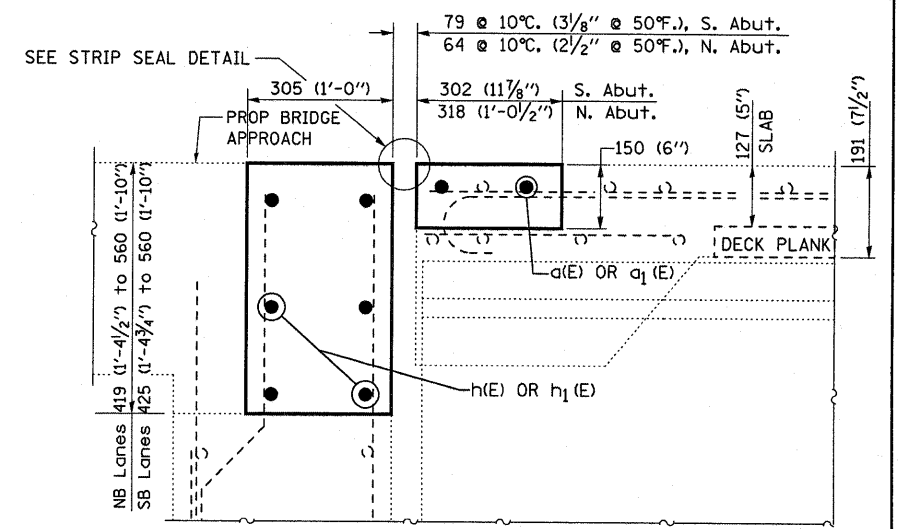
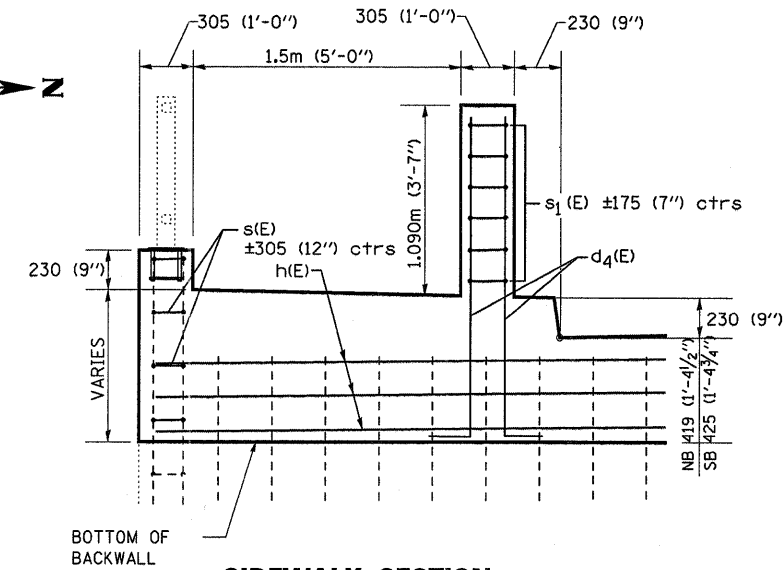
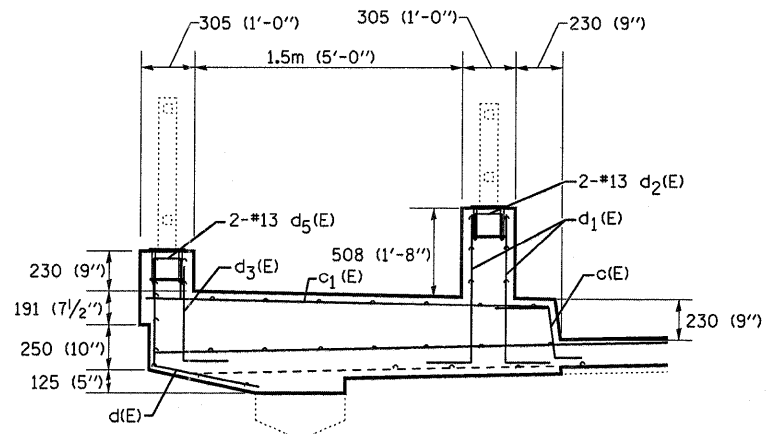
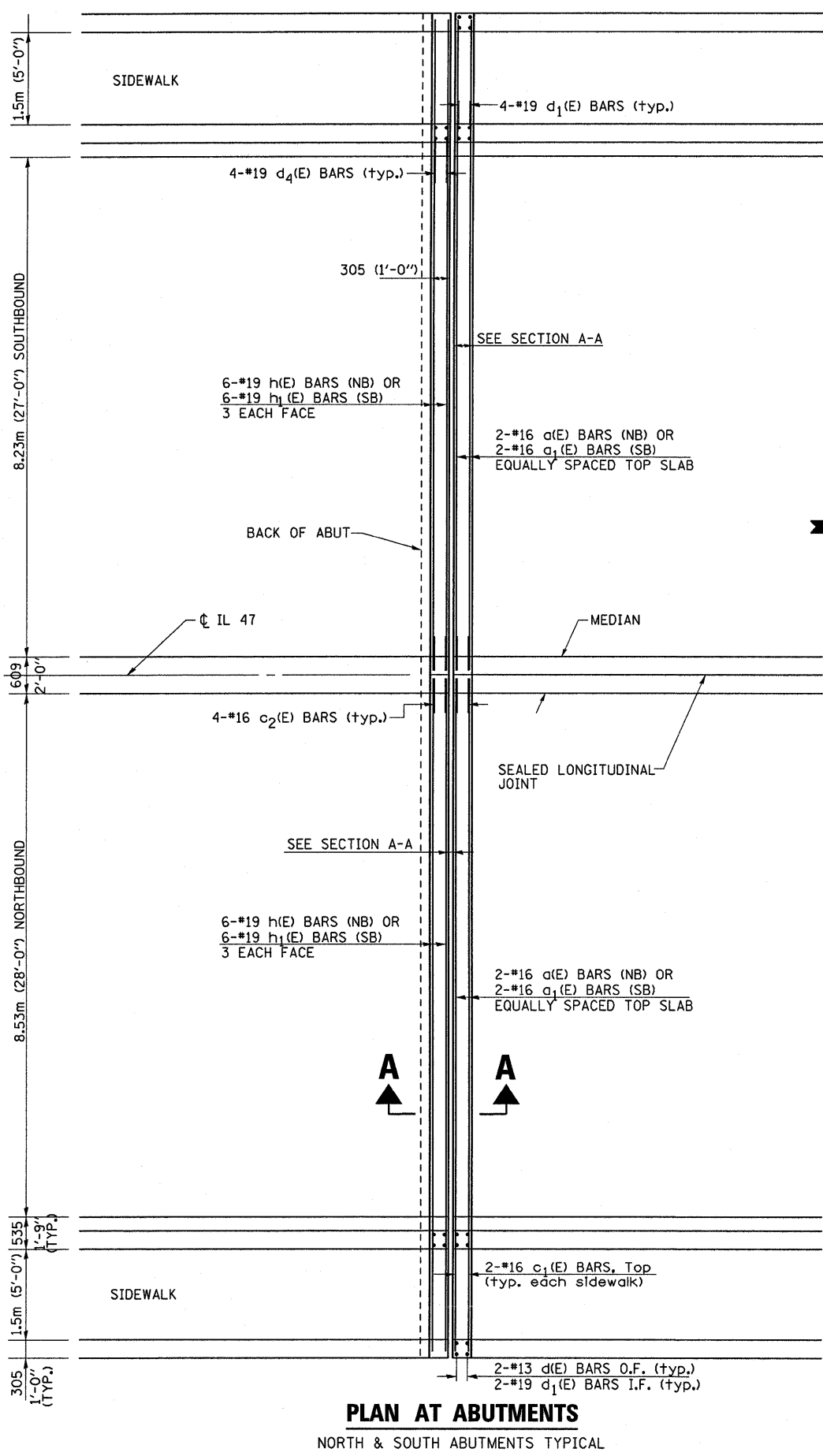
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	PLOT SCALE = 50.0000 ' / in.	CHECKED - IJL	REVISED -
	PLOT DATE = 8/16/2011	DATE - 02/23/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXPANSION JOINT REMOVAL
STRUCTURE NO 047-0048

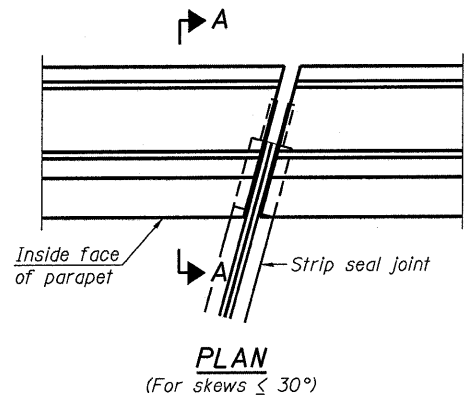
SCALE: SHEET NO. 5 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(5CS,13C,108,109)R	KENDALL	931	662
CONTRACT NO. 66671			ILLINOIS FED. AID PROJECT	

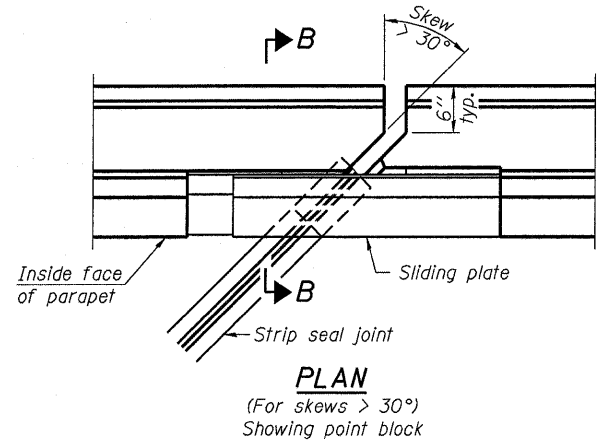


BILL OF MATERIAL

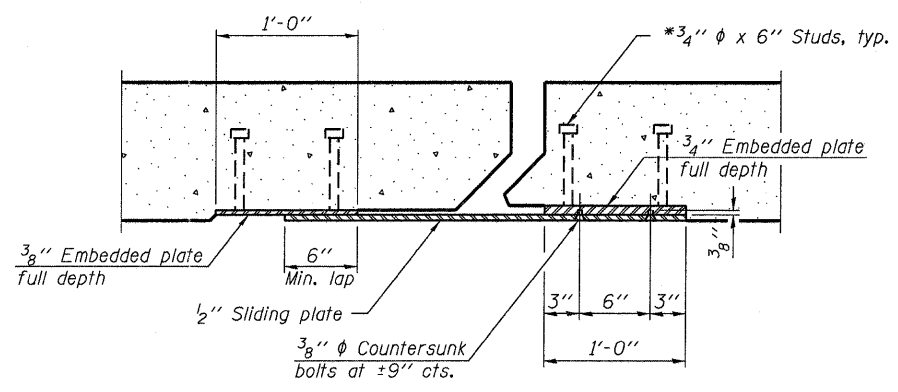
Bar	No.	Size	Length	Shape
a(E)	4	#16	11.075m	—
a ₁ (E)	4	#16	10.770m	—
c(E)	8	#16	0.740m	—
c ₁ (E)	8	#16	2.235m	—
c ₂ (E)	16	#16	1.090m	—
d(E)	8	#13	1.170m	—
d ₁ (E)	16	#19	1.090m	—
d ₂ (E)	8	#13	0.610m	—
d ₃ (E)	8	#19	0.790m	—
d ₄ (E)	16	#19	1.800m	—
d ₅ (E)	8	#13	0.460m	—
h(E)	12	#19	11.075m	—
h ₁ (E)	12	#19	10.770m	—
s(E)	16	#13	1.040m	—
s ₁ (E)	28	#13	0.740m	—
Reinforcement Bars, Epoxy Coated			Kg	970
Concrete Superstructure			Cu. M.	11.1



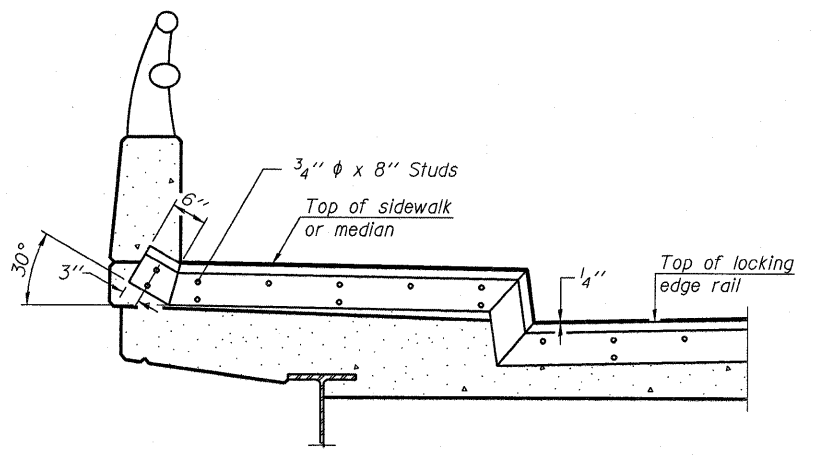
PLAN
(For skews $\leq 30^\circ$)



PLAN
(For skews $> 30^\circ$)
Showing point block

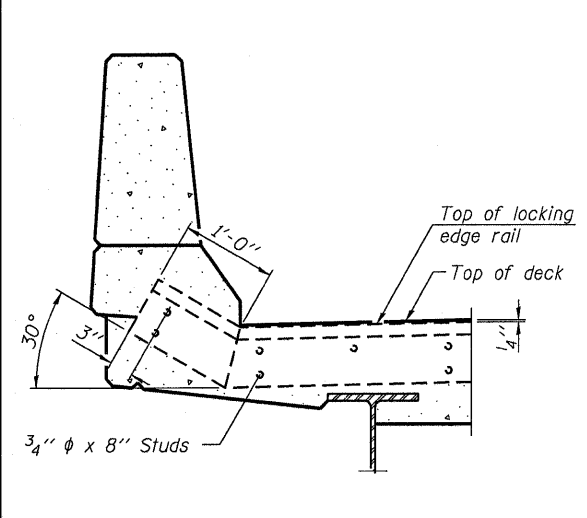


SECTION C-C

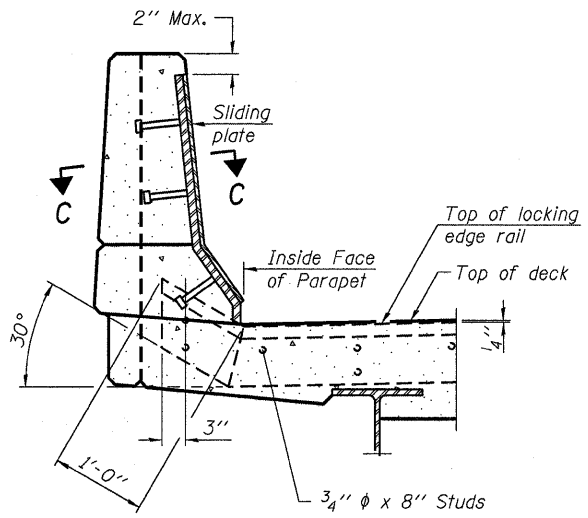


TYPICAL END TREATMENT AT SIDEWALK OR MEDIAN

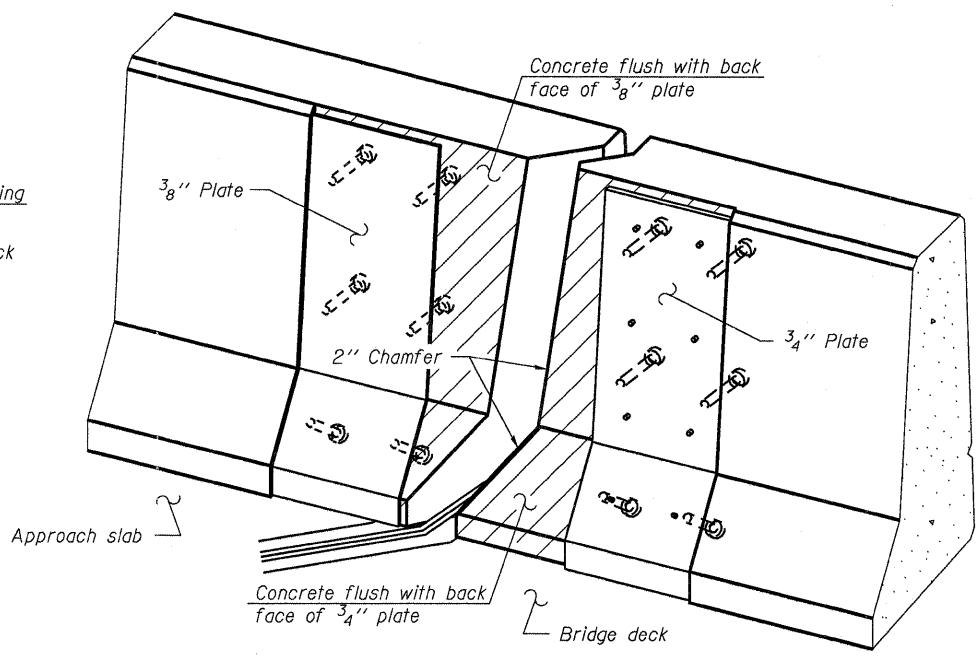
Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.



SECTION A-A



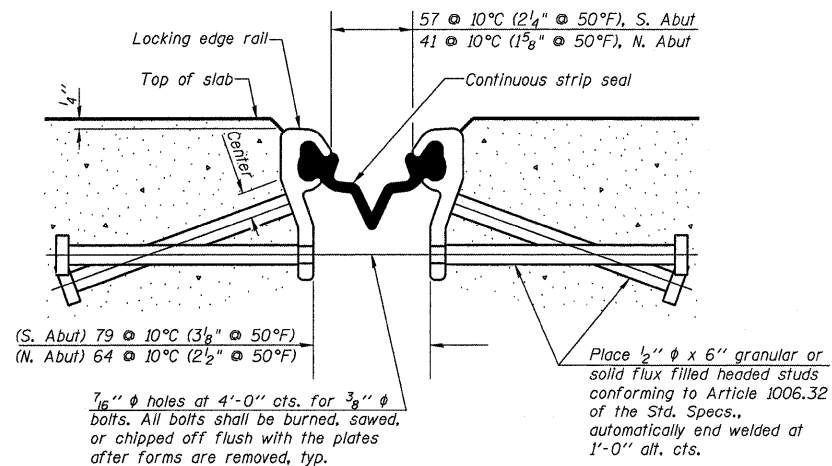
SECTION B-B



TRIMETRIC VIEW
(Showing back plates only)

Notes:
The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.
The Locking Edge Rails depicted are conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities.
The manufacturer's recommended installation methods shall be followed.

The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications. Maximum space between rail segments at stage lines shall be 3/16", sealed with a suitable sealant.
Parapet plates and anchorage studs for skews $> 30^\circ$ included in the cost of Preformed Joint Strip Seal.



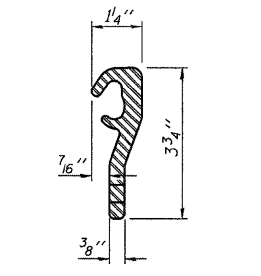
SECTION THRU STRIP SEAL JOINT

(S. Abut) 79 \oplus 10°C (3 1/2" \oplus 50°F)
(N. Abut) 64 \oplus 10°C (2 1/2" \oplus 50°F)

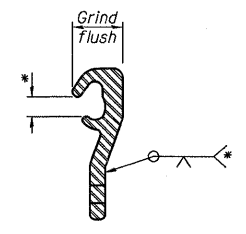
57 \oplus 10°C (2 1/4" \oplus 50°F), S. Abut
41 \oplus 10°C (1 5/8" \oplus 50°F), N. Abut

Place 1/2" phi x 6" granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded at 1'-0" att. cts.

7/16" phi holes at 4'-0" cts. for 3/8" phi bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.



LOCKING EDGE RAIL



LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Meter	45

LOCKING EDGE RAILS

FILE NAME =	USER NAME = duncanbd	DESIGNED - BDD	REVISED - BDD 04/19/11
c:\pwork\pwork\duncanbd\0178917\F30	192-structure repair.dgn	DRAWN - BDD	REVISED -
	PLOT SCALE = 50.0000' / in.	CHECKED - IJL	REVISED -
	PLOT DATE = 8/16/2011	DATE - 02/23/11	REVISED -

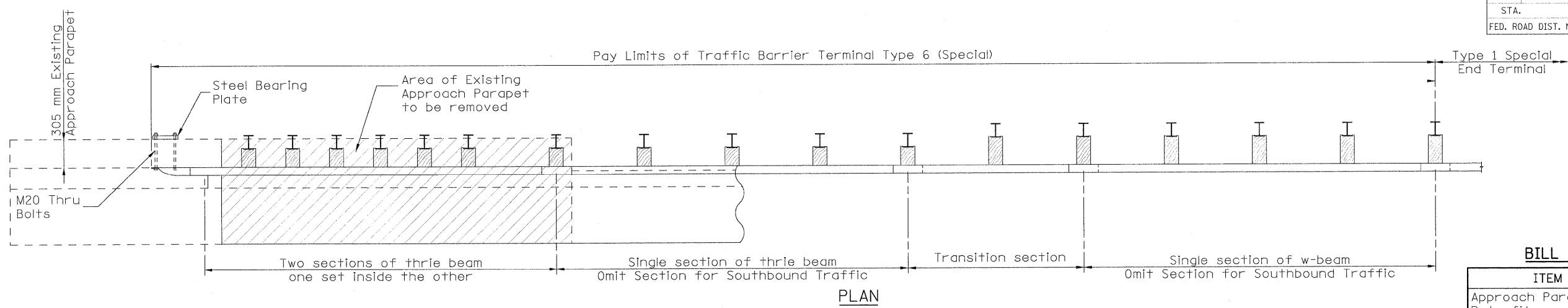
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL
STRUCTURE NO 047-0048

SCALE: SHEET NO. 7 OF 7 SHEETS STA. TO STA.

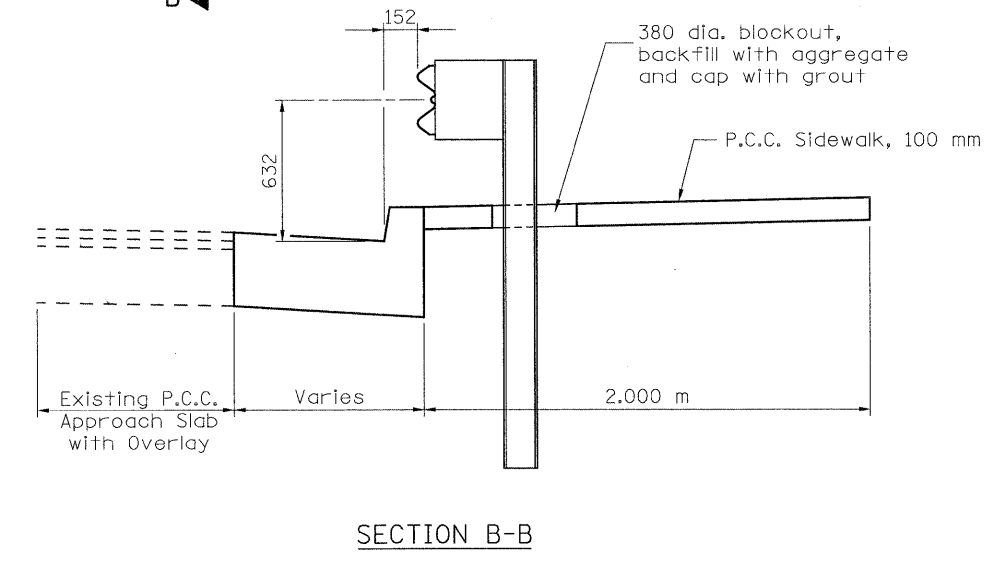
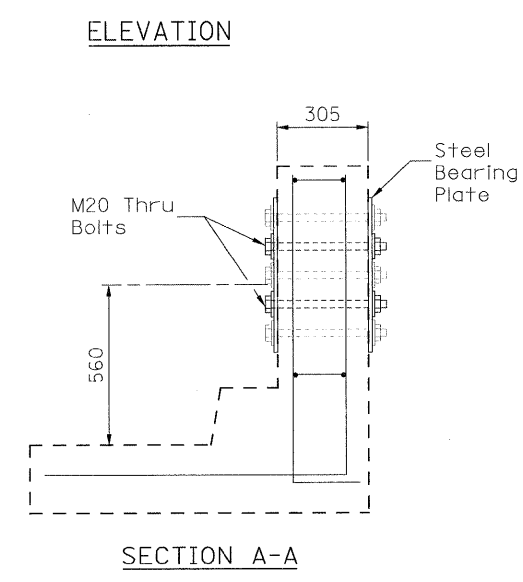
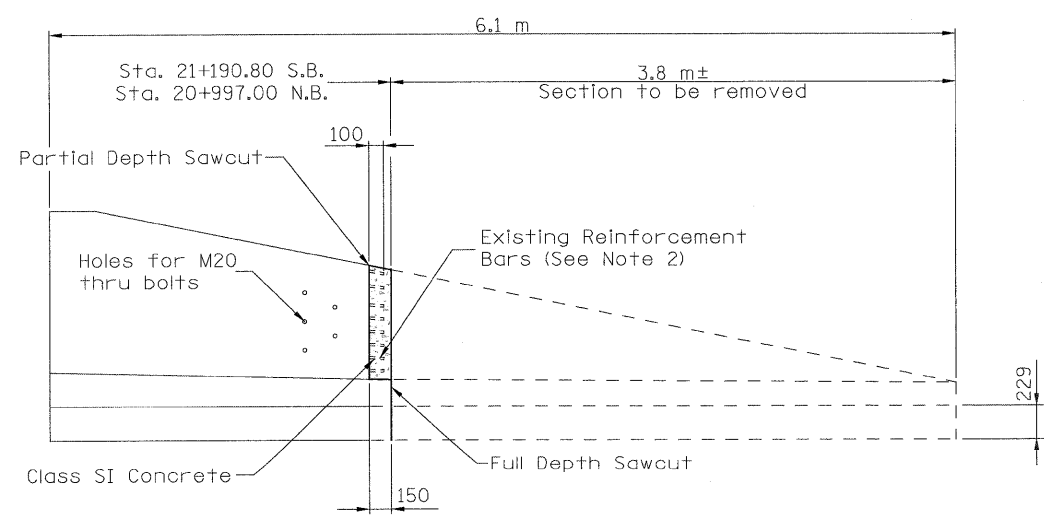
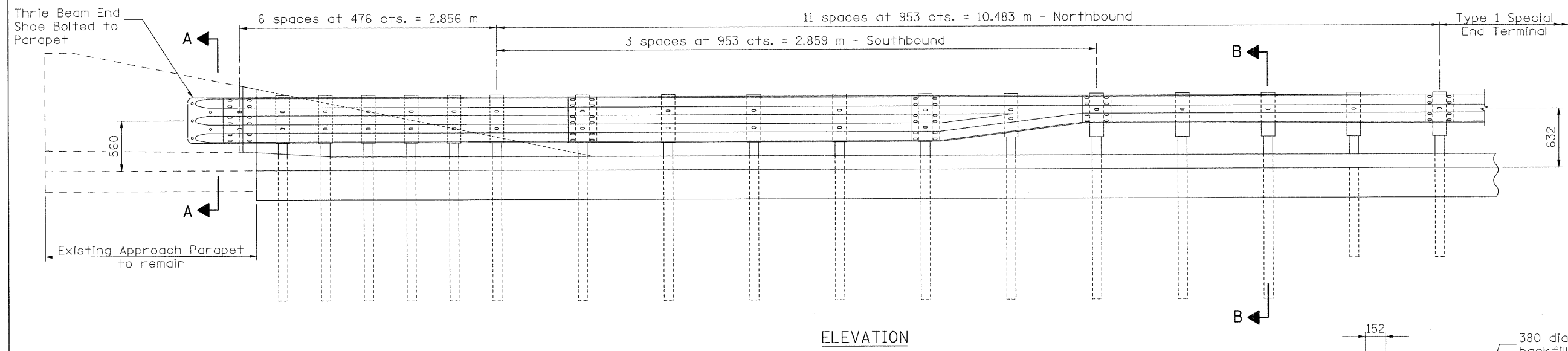
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(SCS.13C.108.109)R	KENDALL	931	664
				CONTRACT NO. 66671
[ILLINOIS] FED. AID PROJECT				

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(5CS,13C,108,109R)	KENDALL	931	665
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Approach Parapet Retrofit	Each	2



- Notes:**
- See Standard 631031-08 for details of guardrail not shown.
 - The contractor shall use care in the salvage of existing reinforcement bars. Existing bars shall be cleaned, straightened, and incorporated into new construction.
 - The cost of sawcutting, concrete removal, Class SI Concrete and salvaging reinforcement shall be included in the cost of Approach Parapet Retrofit. See Special Provisions.
 - Thrie beam rail shall be bolted to block-out at all posts.
 - All dimensions are in millimeters unless otherwise noted:

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		APPROACH PARAPET RETROFIT AND GUARDRAIL DETAILS DRAWN BY _____ CHECKED BY _____ DATE _____

FILE: 665bridge end section det.sht.dgn PLOTTED: 8/11/2011

HMG JOB NO. 5122

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(5CS,13C,108,109)R	KENDALL	931	666
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

MATERIAL LIST
JUNCTION BOX NO. 1
(For Information Only)

BAR	NO.	SIZE	LENGTH (m)	SHAPE
a ₉₁ (E)	49	#22	2.36	C
a ₉₃ (E)	49	#16	1.80	—
h ₉₀ (E)	17	#19	4.93	—
h ₉₉ (E)	17	#13	4.93	—
Concrete Structures			m ³	4.1
Reinforcement Bars, Epoxy Coated			kg	760

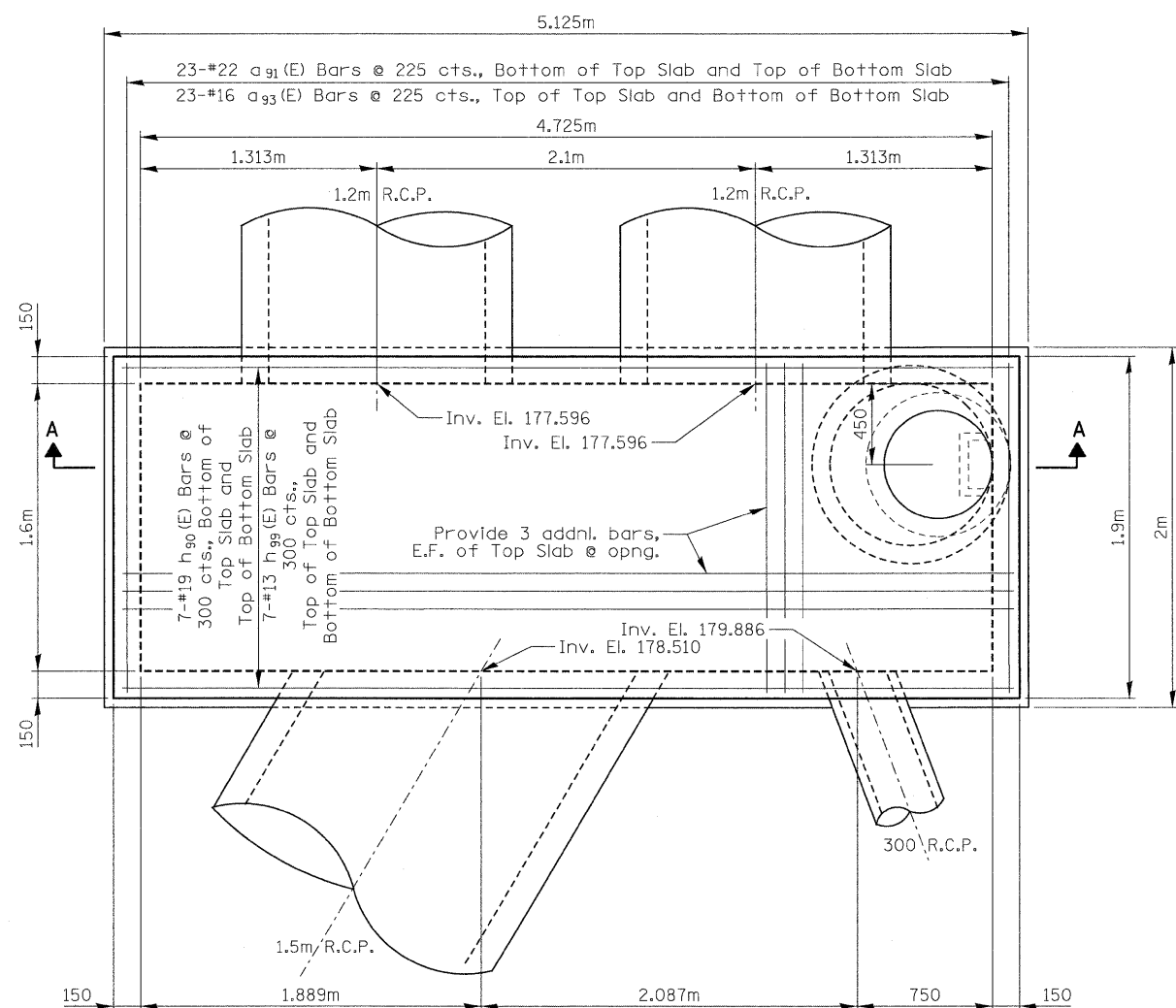
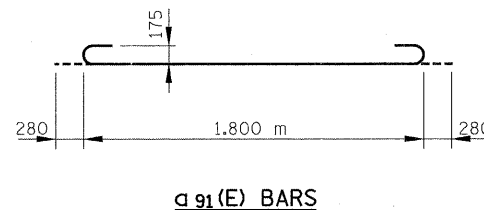
Cut a₉₁(E), a₉₃(E), h₉₀(E), and h₉₉(E) bars in the field to miss the MH opening in the top slab.

BILL OF MATERIAL

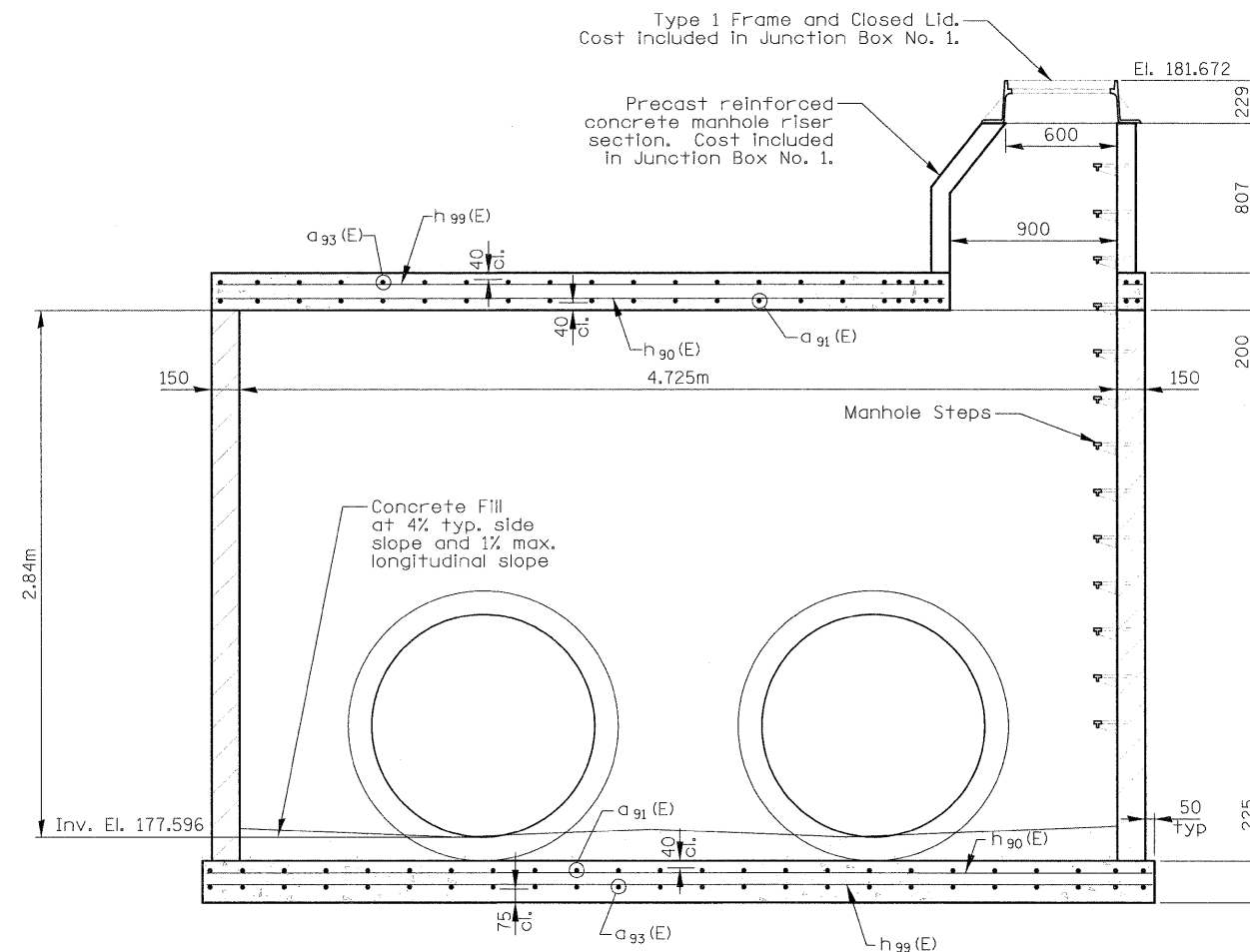
ITEM	UNIT	QUANTITY
Junction Box No. 1	L. Sum	1

Notes:

- Junction Box walls shall be constructed of precast or cast-in-place concrete in accordance with Section 602 of the Standard Specifications and Special Provisions.
- Steps shall be required for all Junction Boxes. Steps shall be spaced at 300 to 400 cts. and in accordance with Standard 602701 and Article 602.08 of the Standard Specifications.
- Reinforcement Bars shall conform to the requirements of ASTM A 706M, Gr. 420.
- All Reinforcement Bars for Junction Boxes shall be epoxy coated.
- Material List is shown for informational purposes only. Quantities of "Concrete Structures" and "Reinforcement Bars, Epoxy Coated" shall be included in the cost of Junction Box No. 1. See Special Provisions.
- All dimensions are in millimeters unless otherwise shown.



PLAN - JUNCTION BOX NO. 1



SECTION A-A

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

DETAILS
JUNCTION BOX NO. 1

DATE _____ DRAWN BY _____
CHECKED BY _____

FILE: 666_juncbx1_sht.dgn
PLOTTED: 8/11/2011

HMG JOB NO. 5122

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(6CS,13C,108,109)R	KENDALL	931	667
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

MATERIAL LIST
JUNCTION BOX NO. 2
(For Information Only)

BAR	NO.	SIZE	LENGTH (m)	SHAPE
a ₁₀₁ (E)	45	#22	2.36	U
a ₁₀₃ (E)	45	#16	1.80	—
h ₁₀₀ (E)	17	#19	4.50	—
h ₁₀₉ (E)	17	#13	4.50	—
Concrete Structures			m ³	3.7
Reinforcement Bars, Epoxy Coated			kg	700

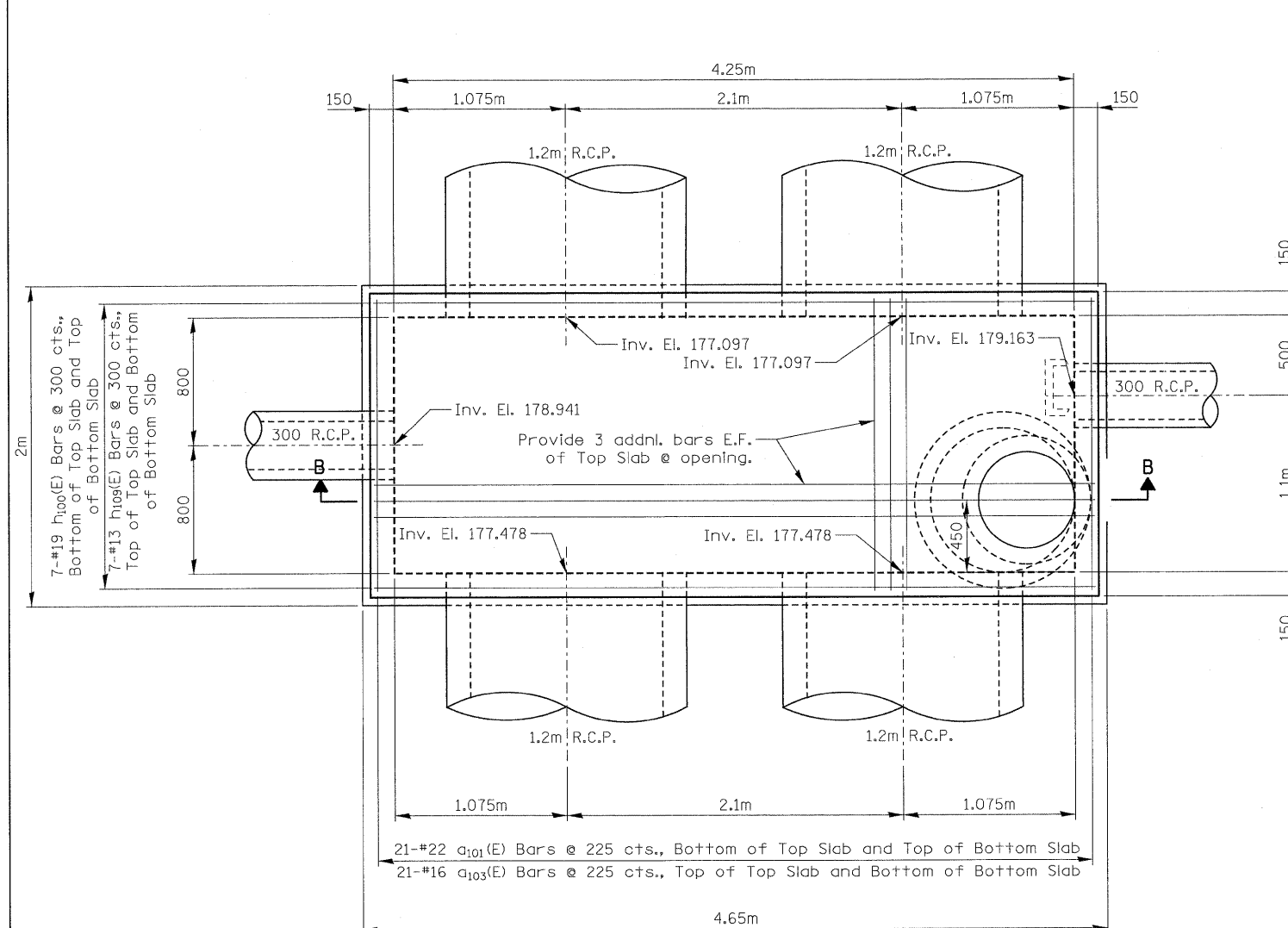
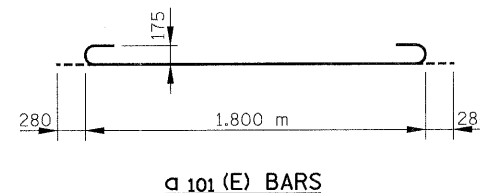
Cut a₁₀₁(E), a₁₀₃(E), h₁₀₀(E), and h₁₀₉(E) bars in the field to miss the MH opening in the top slab.

BILL OF MATERIAL

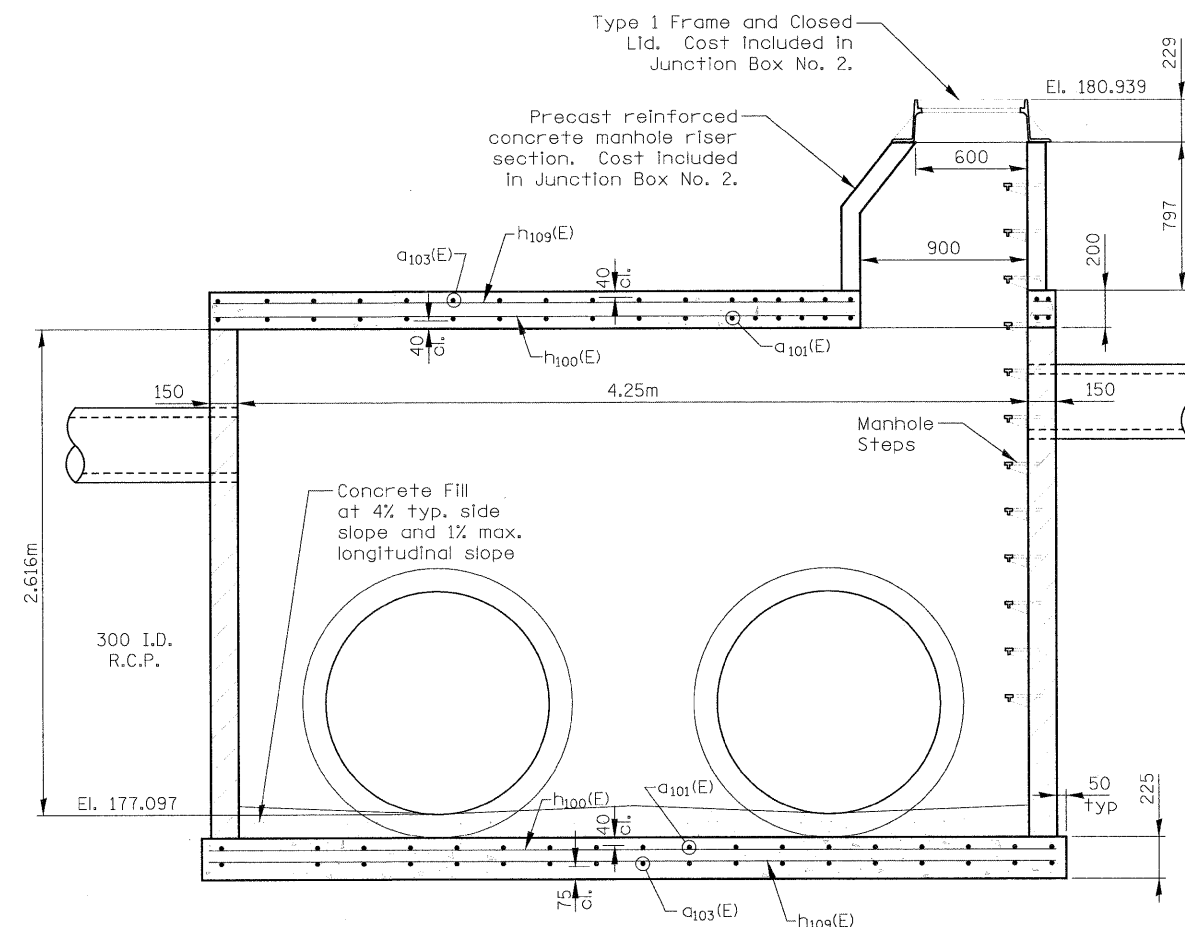
ITEM	UNIT	QUANTITY
Junction Box No. 2	L. Sum	1

Notes:

- Junction Box walls shall be constructed of precast or cast-in-place concrete in accordance with Section 602 of the Standard Specifications and Special Provisions.
- Steps shall be required for all Junction Boxes. Steps shall be spaced at 300 to 400 cts. and in accordance with Standard 602701 and Article 602.08 of the Standard Specifications.
- Reinforcement Bars shall conform to the requirements of ASTM A 706M, Gr. 420.
- All Reinforcement Bars for Junction Boxes shall be epoxy coated.
- Material List is shown for informational purposes only. Quantities of "Concrete Structures" and "Reinforcement Bars, Epoxy Coated" shall be included in the cost of Junction Box No. 2. See Special Provisions.
- All dimensions are in millimeters unless otherwise shown.



PLAN - JUNCTION BOX NO. 2



SECTION B-B

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		DETAILS JUNCTION BOX NO. 2 DRAWN BY _____ CHECKED BY _____ DATE _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(6CS,13C,108,109)R	KENDALL	931	668
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

MATERIAL LIST
JUNCTION BOX NO. 3
(For Information Only)

BAR	NO.	SIZE	LENGTH (m)	SHAPE
a ₁₀₁ (E)	45	#22	2.36	⌒
a ₁₀₃ (E)	45	#16	1.80	—
h ₁₀₀ (E)	17	#19	4.50	—
h ₁₀₉ (E)	17	#13	4.50	—
Concrete Structures			m ³	3.7
Reinforcement Bars, Epoxy Coated			kg	700

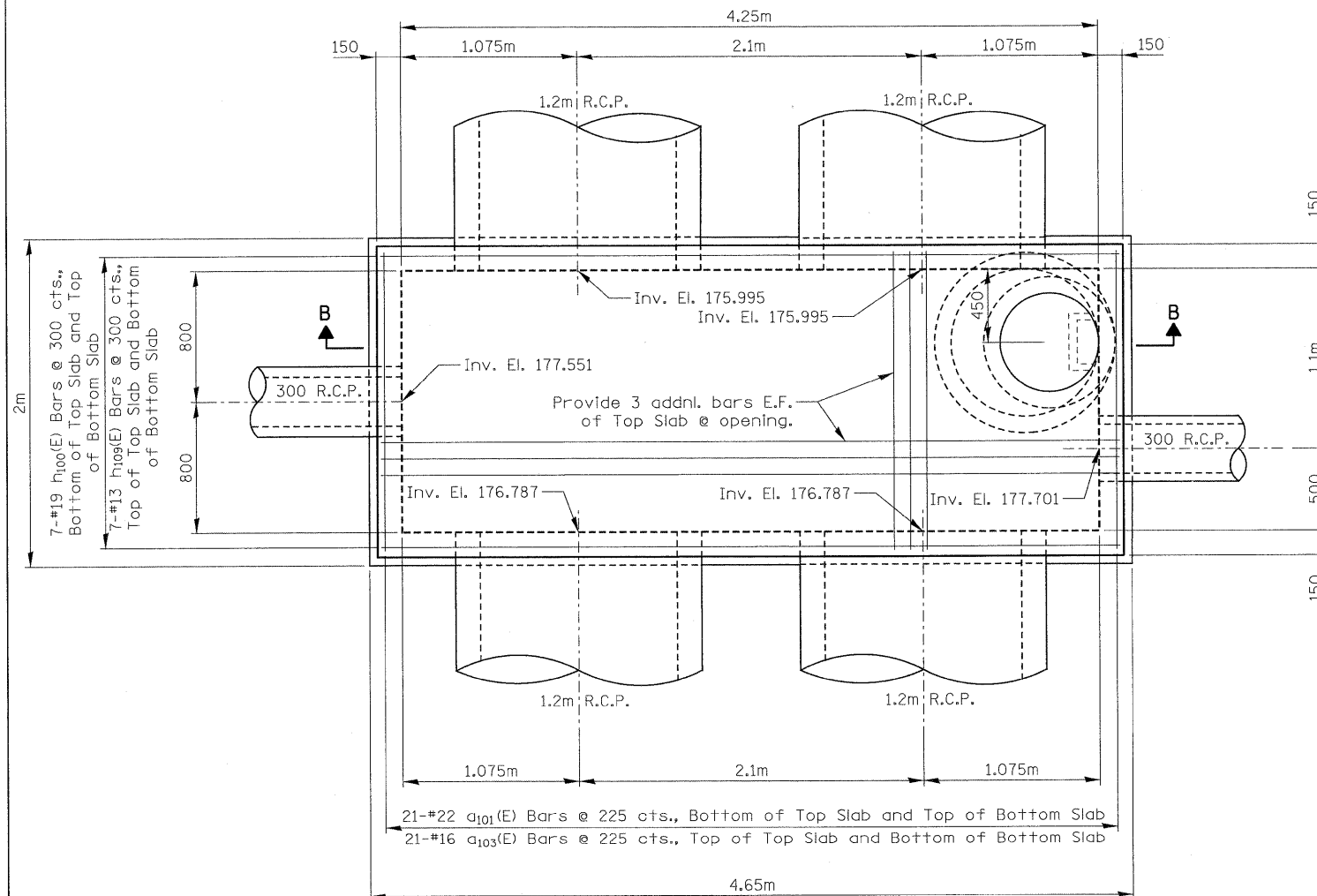
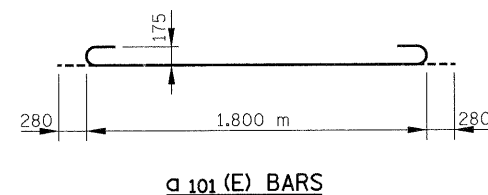
Cut a₁₀₁(E), a₁₀₃(E), h₁₀₀(E), and h₁₀₉(E) bars in the field to miss the MH opening in the top slab.

BILL OF MATERIAL

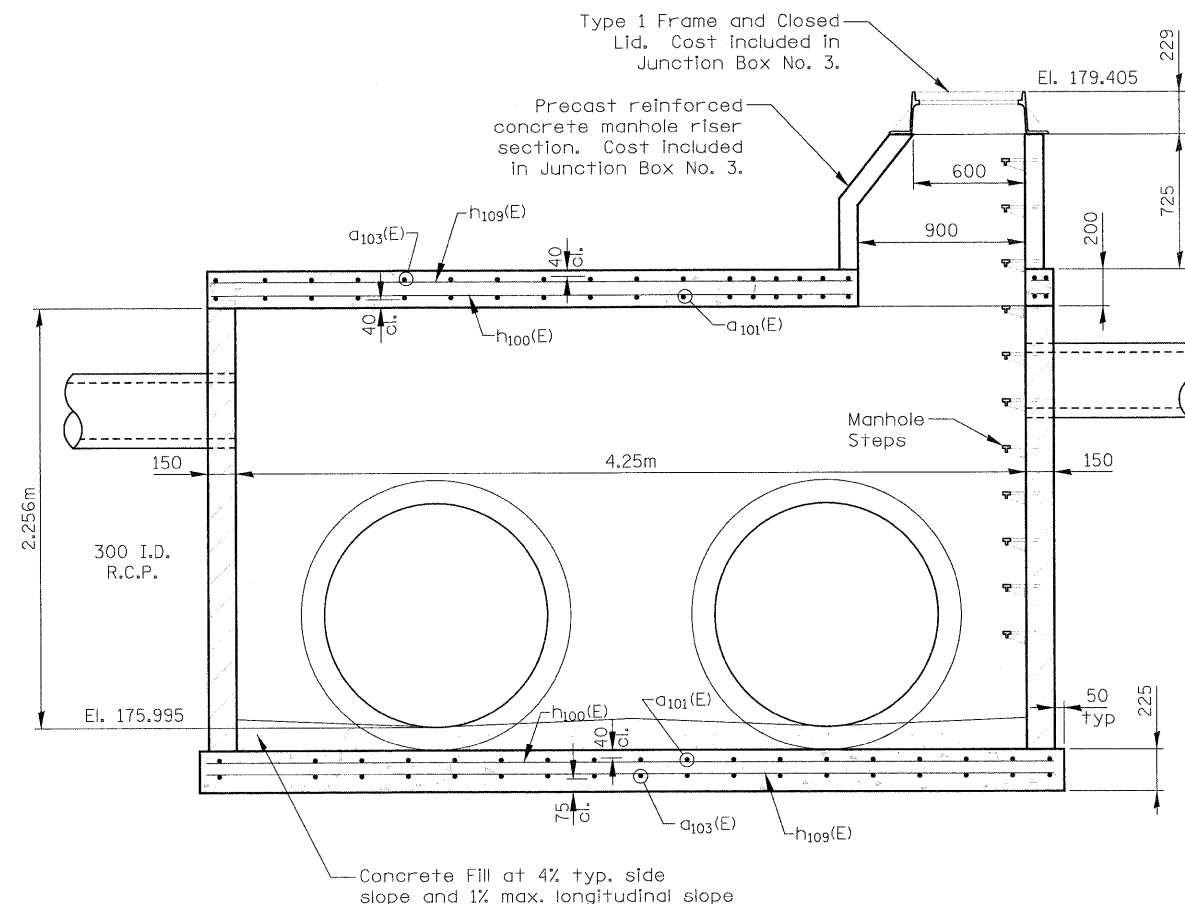
ITEM	UNIT	QUANTITY
Junction Box No. 3	L. Sum	1

Notes:

- Junction Box walls shall be constructed of precast or cast-in-place concrete in accordance with Section 602 of the Standard Specifications and Special Provisions.
- Steps shall be required for all Junction Boxes. Steps shall be spaced at 300 to 400 cts. and in accordance with Standard 602701 and Article 602.08 of the Standard Specifications.
- Reinforcement Bars shall conform to the requirements of ASTM A 706M, Gr. 420.
- All Reinforcement Bars for Junction Boxes shall be epoxy coated.
- Material List is shown for informational purposes only. Quantities of "Concrete Structures" and "Reinforcement Bars, Epoxy Coated" shall be included in the cost of Junction Box No. 3. See Special Provisions.
- All dimensions are in millimeters unless otherwise shown.



PLAN - JUNCTION BOX NO. 3



SECTION B-B

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<p align="center">DETAILS JUNCTION BOX NO. 3</p> <p align="right">DRAWN BY CHECKED BY</p> <p>DATE</p>

FILE: 668_juncbx3_sht.dgn
PLOTTED: 8/11/2011

HMG JOB NO. 5122

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(6CS,13C,108,109R)	KENDALL	931	669
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Notes:

- Junction Box walls shall be constructed of precast or cast-in-place concrete in accordance with Section 602 of the Standard Specifications and Special Provisions.
- Steps shall be required for all Junction Boxes. Steps shall be spaced at 300 to 400 cts. and in accordance with Standard 602701 and Article 602.08 of the Standard Specifications.
- Reinforcement Bars shall conform to the requirements of ASTM A 706M, Gr. 420.
- All Reinforcement Bars for Junction Boxes shall be epoxy coated.
- Material List is shown for informational purposes only. Quantities of "Concrete Structures" and "Reinforcement Bars, Epoxy Coated" shall be included in the cost of Junction Box No. 4. See Special Provisions.
- All dimensions are in millimeters unless otherwise shown.

MATERIAL LIST
JUNCTION BOX NO. 4

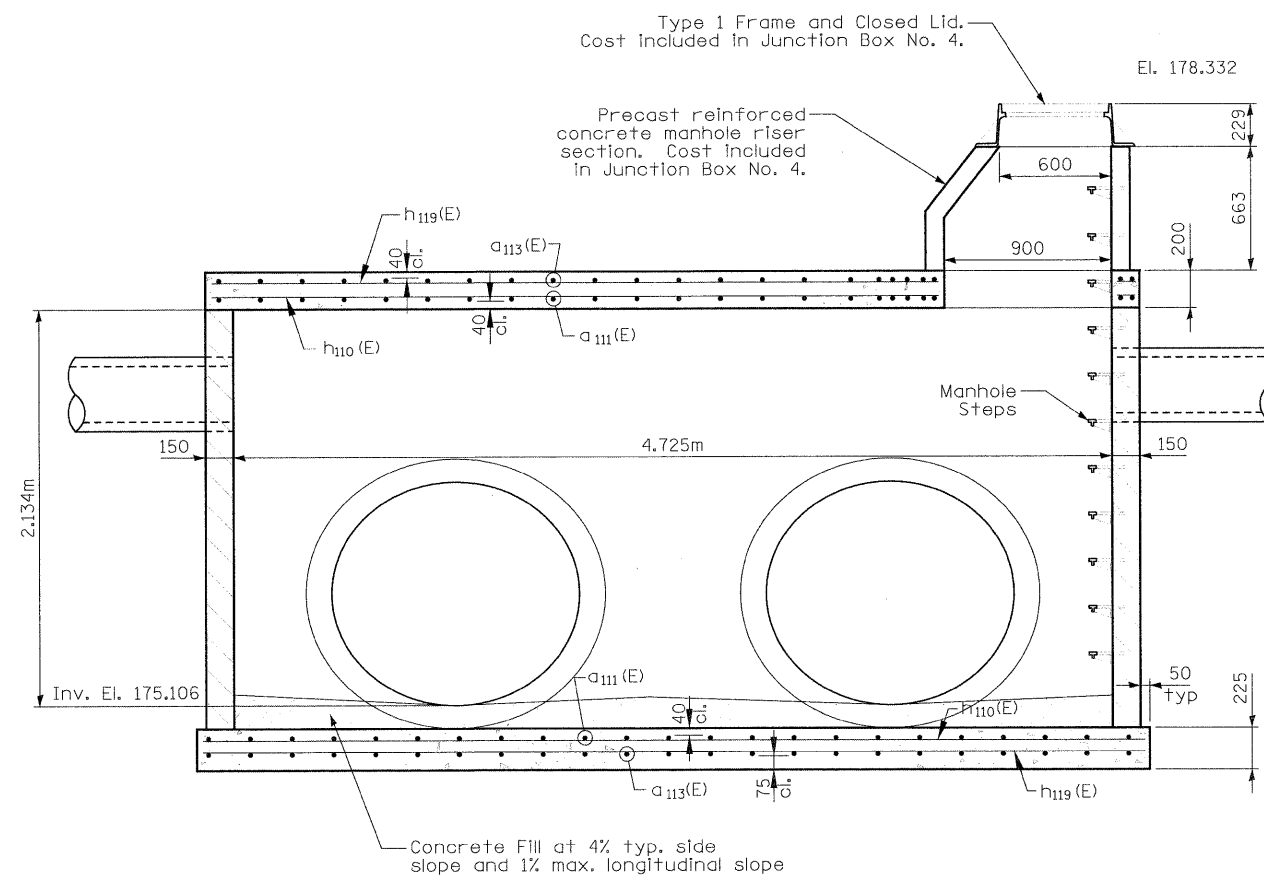
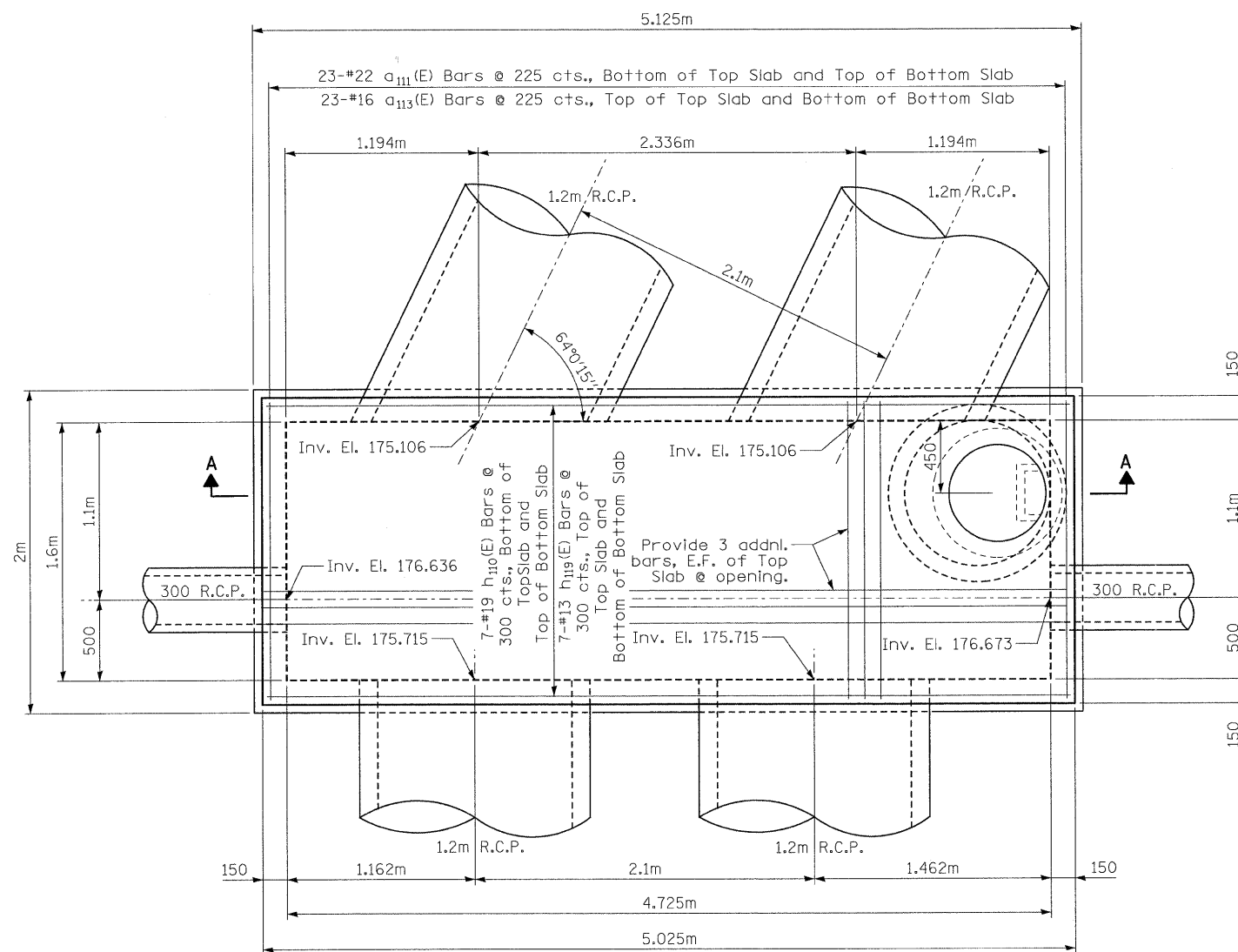
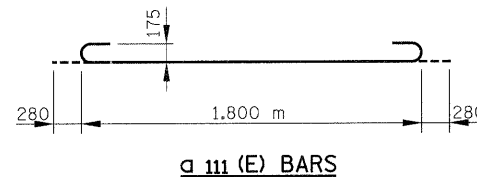
(For Information Only)

BAR	NO.	SIZE	LENGTH (m)	SHAPE
a ₁₁₁ (E)	49	#22	2.36	U
a ₁₁₃ (E)	49	#16	1.80	—
h ₁₁₀ (E)	17	#19	4.93	—
h ₁₁₉ (E)	17	#13	4.93	—
Concrete Structures			m ³	4.1
Reinforcement Bars, Epoxy Coated			kg	760

Cut a₁₁₁(E), a₁₁₃(E), h₁₁₀(E), and h₁₁₉(E) bars in the field to miss the MH opening in the top slab.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Junction Box No. 4	L. Sum	1



SECTION A-A

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<p align="center">DETAILS JUNCTION BOX NO. 4</p> <p align="right">DRAWN BY CHECKED BY</p>

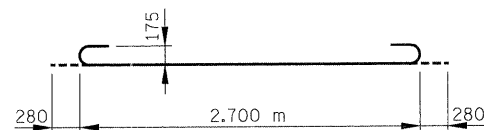
FILE: 669_juncbx4_sht.dgn
PLOTTED: 8/11/2011

HMG JOB NO. 5122

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(SCS,13C,108,109)R	KENDALL	931	670
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Notes:

1. Junction Box walls shall be constructed of precast or cast-in-place concrete in accordance with Section 602 of the Standard Specifications and Special Provisions.
2. Steps shall be required for all Junction Boxes. Steps shall be spaced at 300 to 400 cts. and in accordance with Standard 602701 and Article 602.08 of the Standard Specifications.
3. Reinforcement Bars shall conform to the requirements of ASTM A 706M, Gr. 420.
4. All Reinforcement Bars for Junction Boxes shall be epoxy coated.
5. Material List is shown for informational purposes only. Quantities of "Concrete Structures" and "Reinforcement Bars, Epoxy Coated" shall be included in the cost of Junction Box No. 5. See Special Provisions.
6. All dimensions are in millimeters unless otherwise shown.



a121(E) BARS

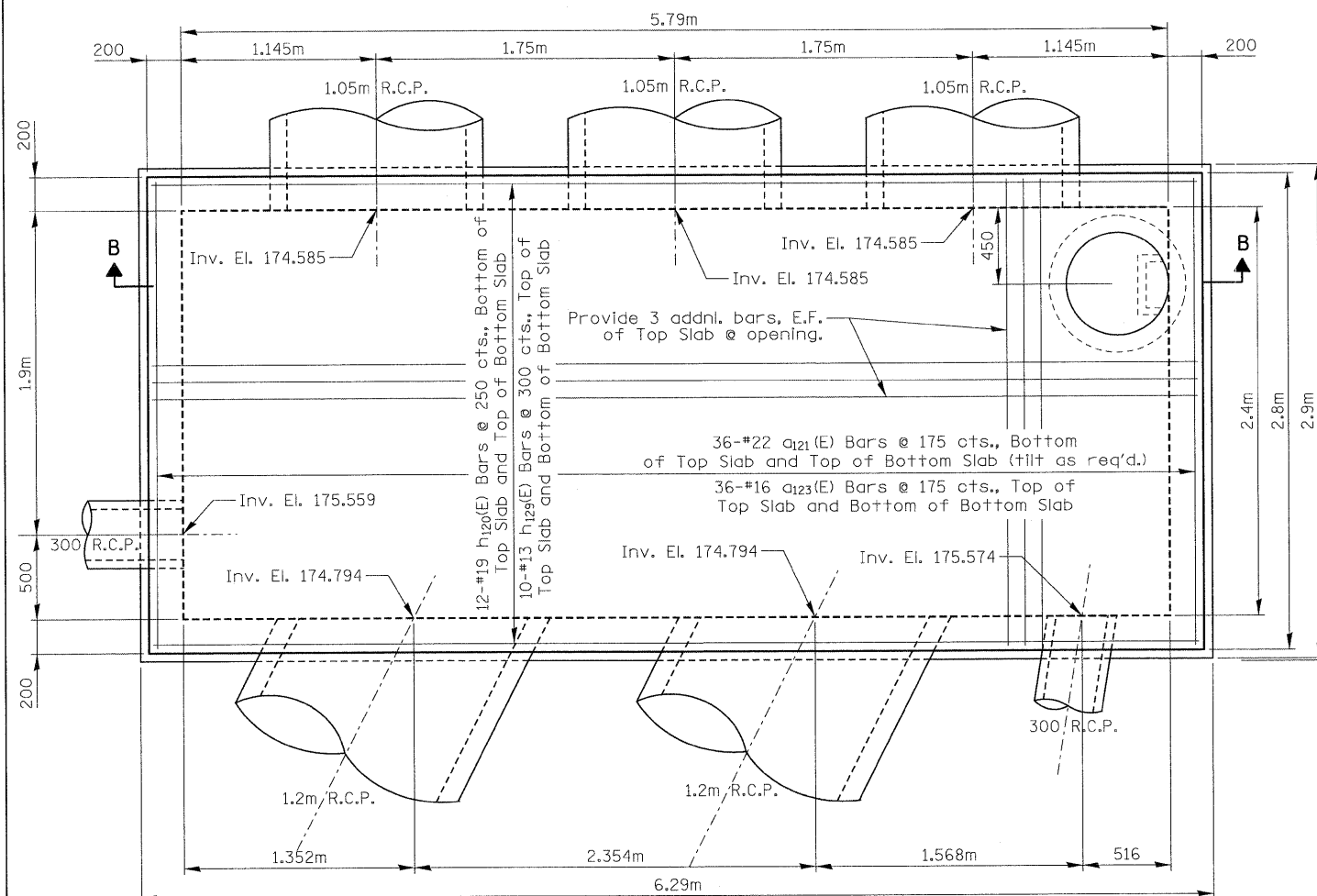
MATERIAL LIST
JUNCTION BOX NO. 5
(For Information Only)

BAR	NO.	SIZE	LENGTH (m)	SHAPE
a121(E)	75	#22	3.26	U
a123(E)	75	#16	2.70	—
h120(E)	27	#19	6.09	—
h129(E)	23	#13	6.09	—
Concrete Structures		m ³	8.3	
Reinforcement Bars, Epoxy Coated		kg	1,570	

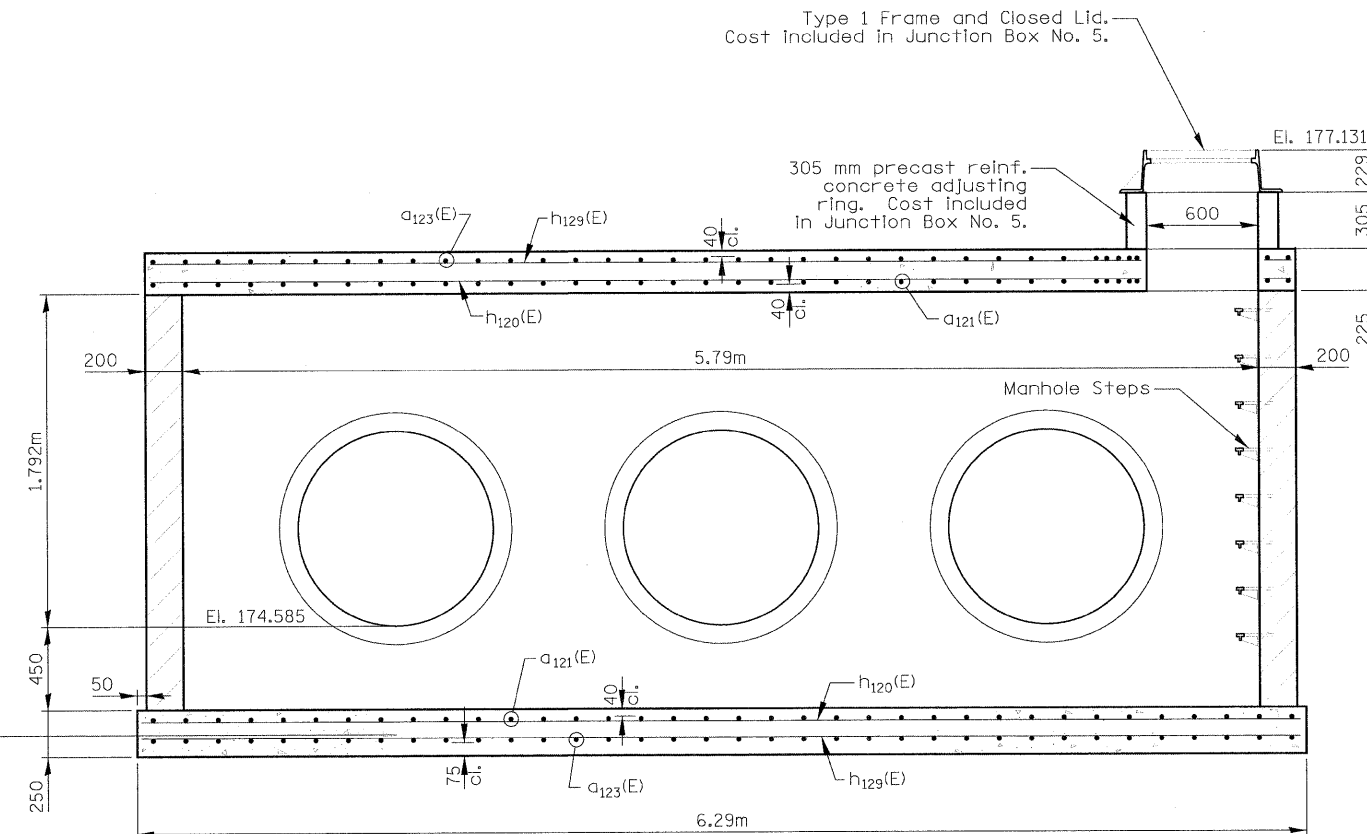
Cut a121(E), a123(E), h120(E) and h129(E) bars in the field to miss the MH opening in the top slab.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Junction Box No. 5	L. Sum	1



PLAN - JUNCTION BOX NO. 5



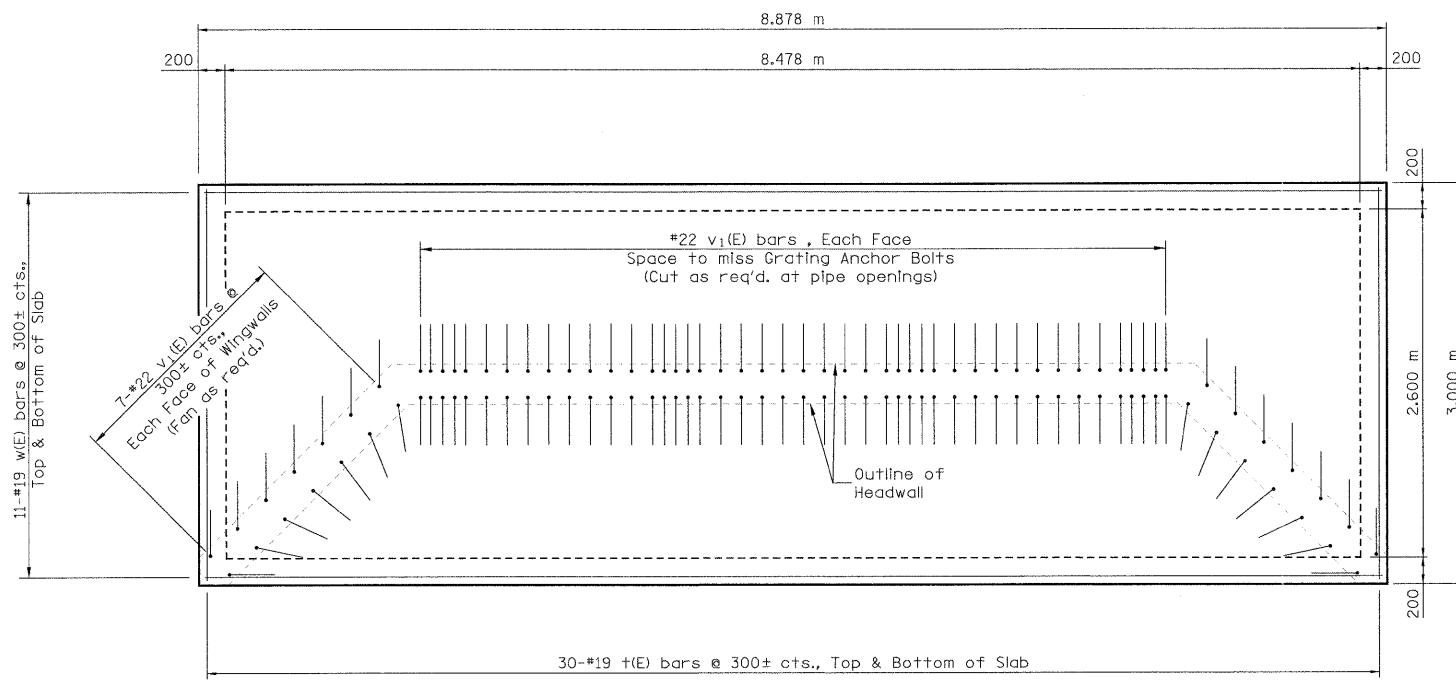
SECTION B-B

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<p style="text-align: center;">DETAILS JUNCTION BOX NO. 5</p> <p style="text-align: right;">DRAWN BY CHECKED BY</p>
		DATE

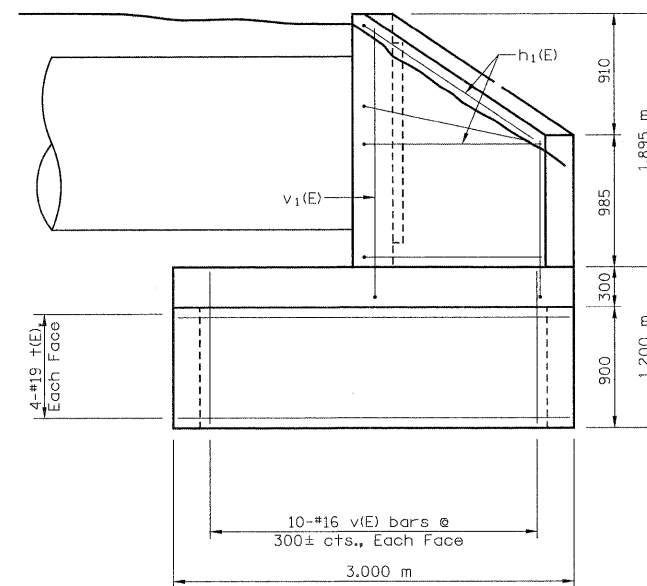
FILE: 670juncbx5.sht.dgn
PLOTTED: 8/11/2011

HMG JOB NO. 5122

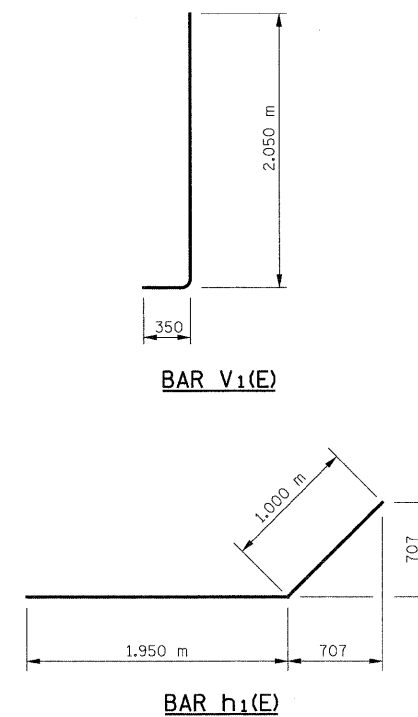
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(5CS,13C,108,109)R	KENDALL	931	671
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



APRON SLAB PLAN



VIEW C-C

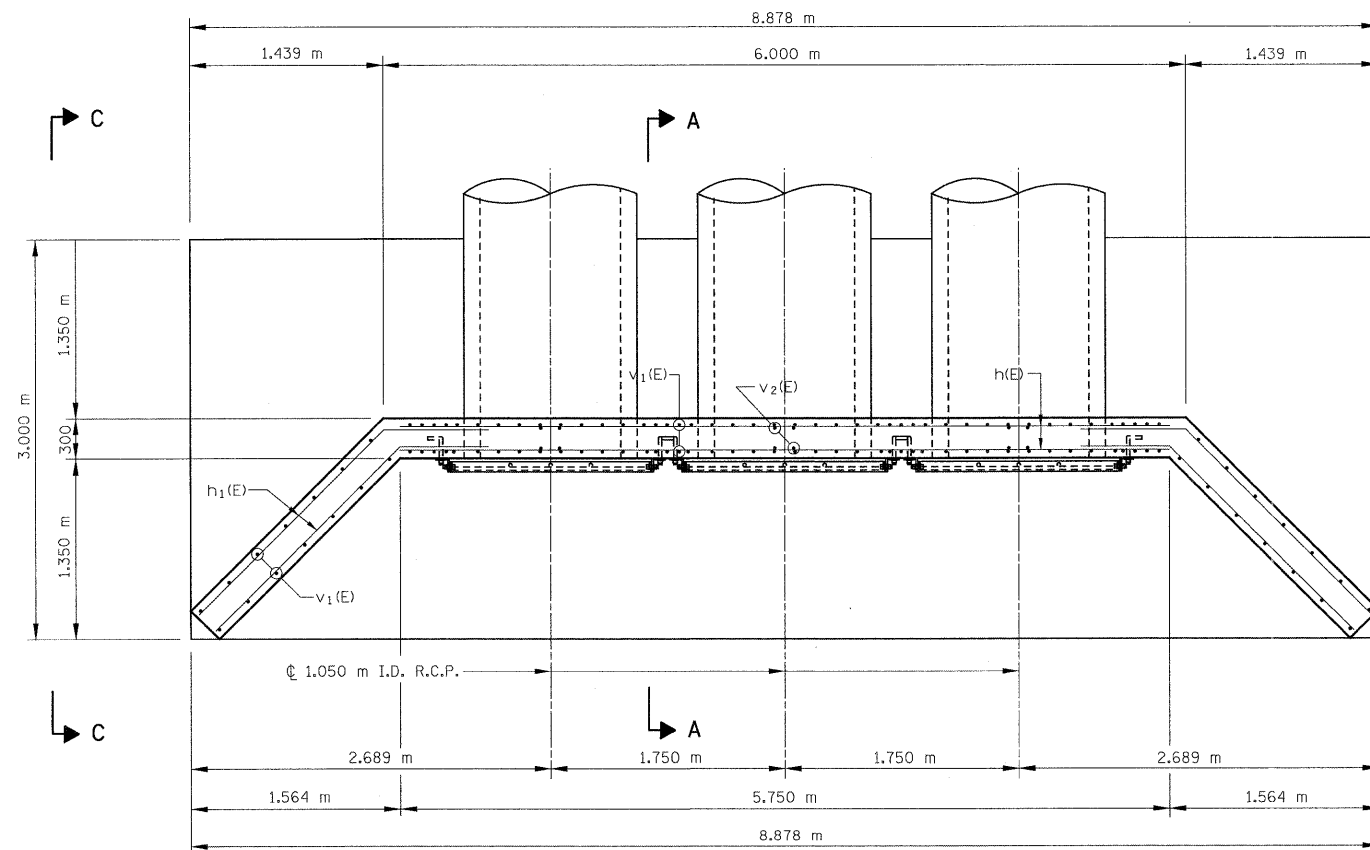


BILL OF MATERIAL

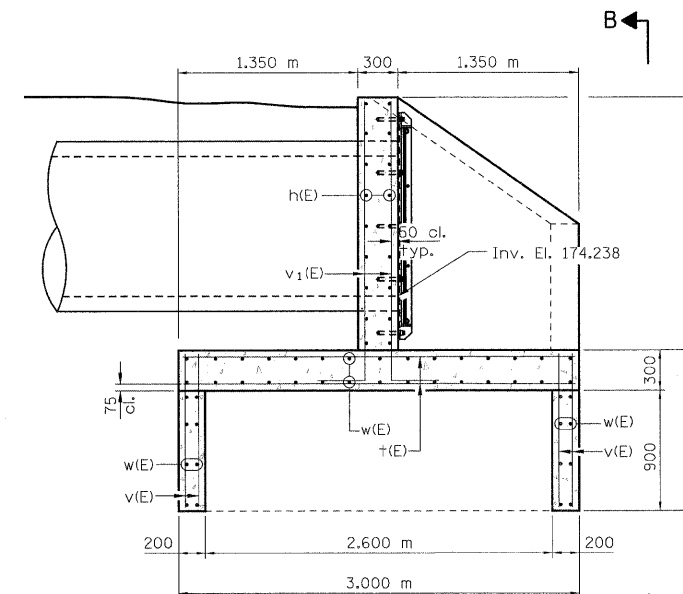
ITEM	UNIT	QUANTITY
Outlet Structure	L. Sum	1
Stone Riprap, Class A5	m ²	69.0
Filter Fabric	m ²	69.0

MATERIAL LIST
(For Information Only)

BAR	NO.	SIZE	LENGTH (m)	SHAPE
h(E)	22	#16	5.75	—
h ₁ (E)	28	#16	2.95	↙
t(E)	76	#19	2.85	—
v(E)	160	#16	1.07	—
v ₁ (E)	116	#22	2.40	L
v ₂ (E)	24	#16	1.40	—
w(E)	38	#19	8.75	—
Concrete Structures		m ³	17.1	
Reinforcement Bars, Epoxy Coated		kg	2,717	



TOP PLAN



SECTION A-A

Notes:

1. Reinforcement Bars shall conform to the requirements of ASTM A 706M, Gr. 420.
2. All Reinforcement Bars for Outlet Structure shall be epoxy coated.
3. Material List is shown for informational purposes only. Quantities of "Concrete Structures" and "Reinforcement Bars, Epoxy Coated" shall be included in the cost of Outlet Structure. See Special Provisions.
4. All dimensions are in millimeters unless otherwise shown.
5. See storm sewer plans for riprap limits. Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

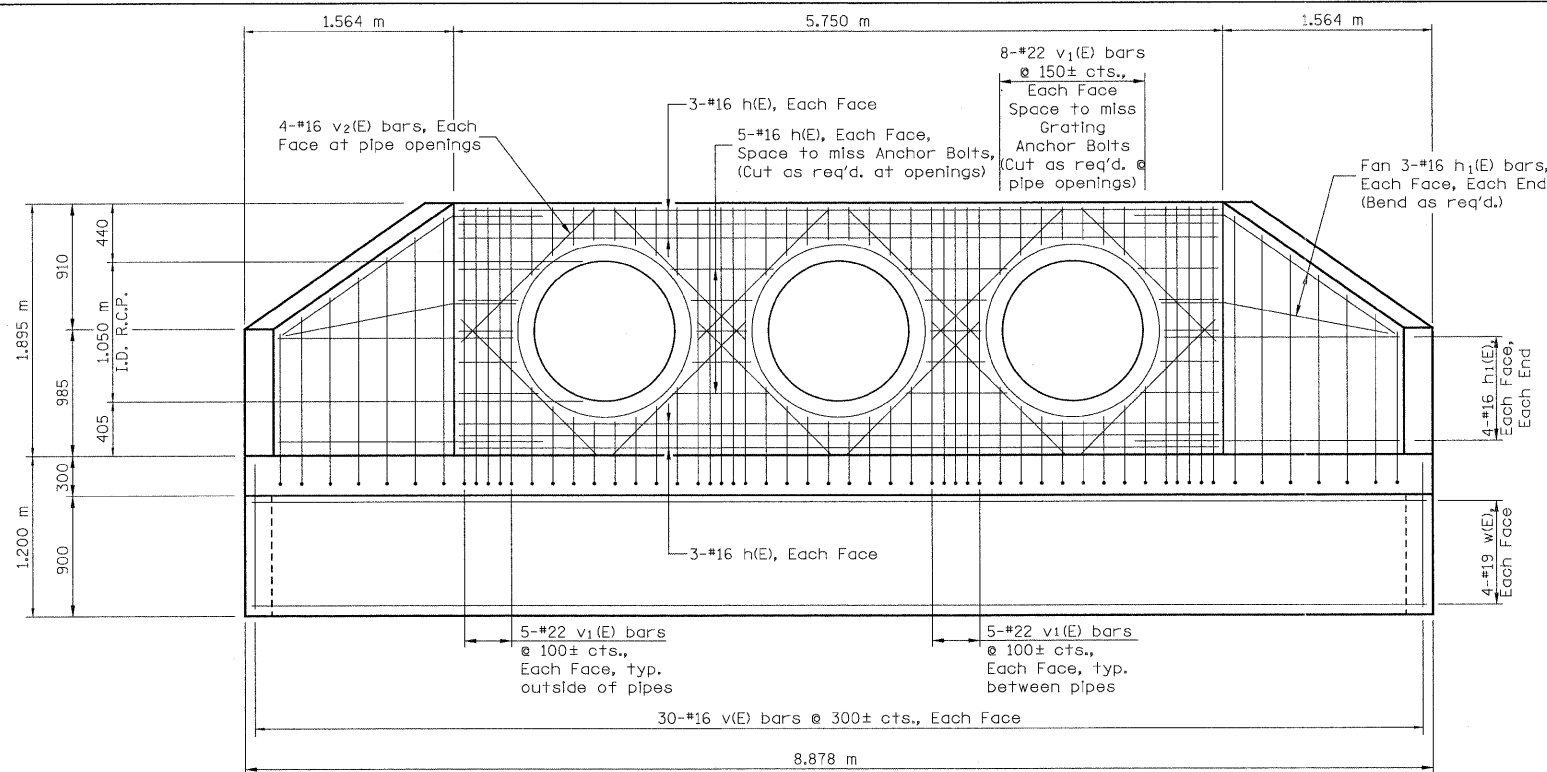
STORM SEWER
OUTLET STRUCTURE DETAILS
(1 OF 2)

DATE _____ DRAWN BY _____
CHECKED BY _____

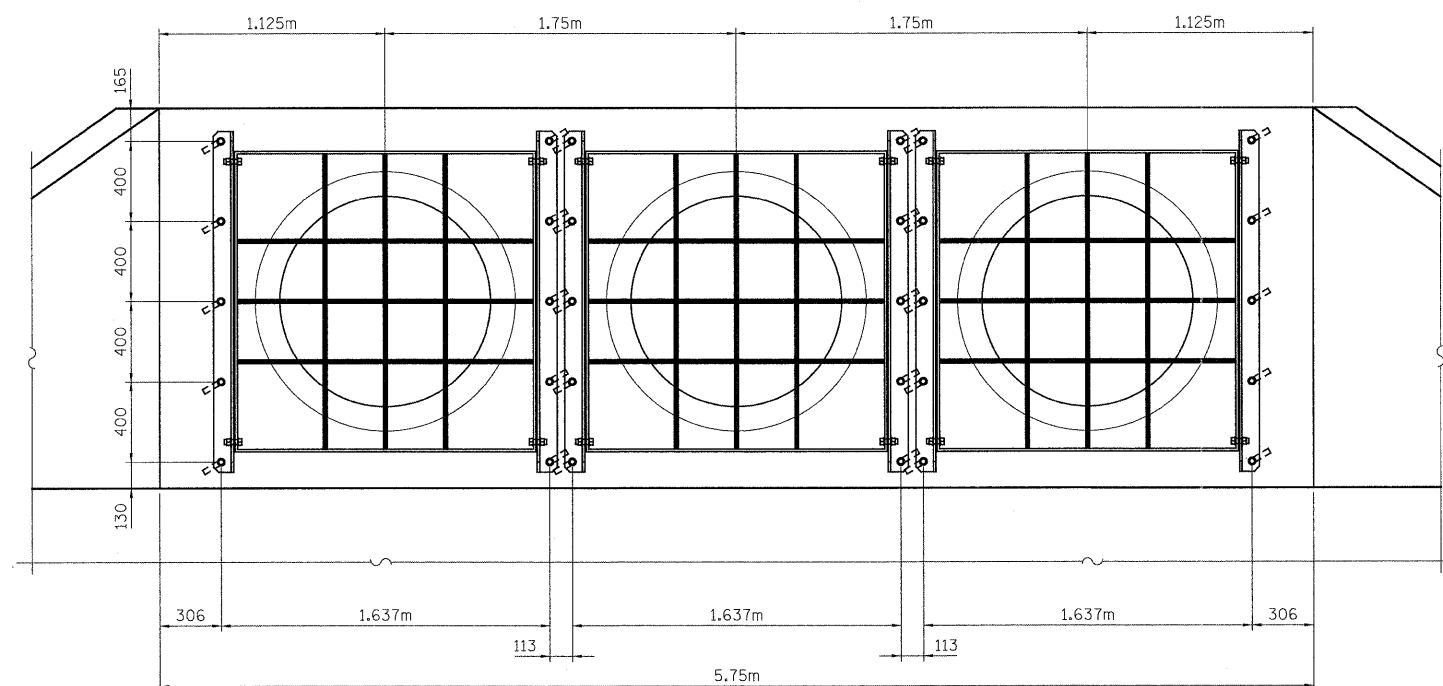
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(6CS,13C,10B,109R)	KENDALL	931	672
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

Notes:

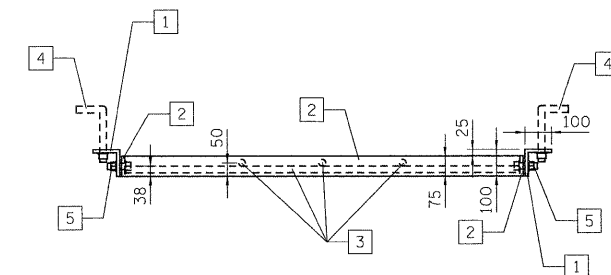
1. Materials, fabrication, and installation of the grate shall be in accordance with Article 542.07 (b)(2).
2. Shop drawings shall be submitted for approval prior to fabrication.
3. Grate assemblies shall be on site prior to casting headwall to verify anchor bolt locations.
4. Mounting holes drilled in angle shall be 28mm. Assembly holes in angle and grate shall be oversized to 31mm to facilitate removal for maintenance.



FRONT ELEVATION

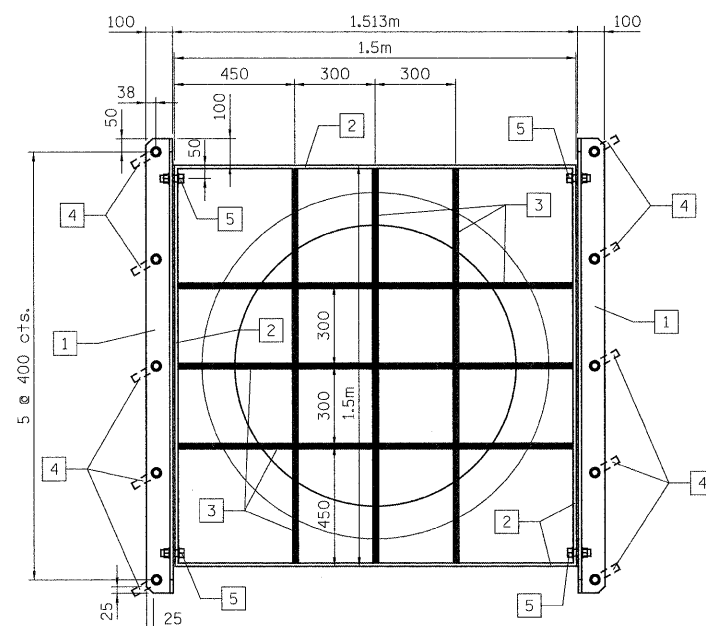
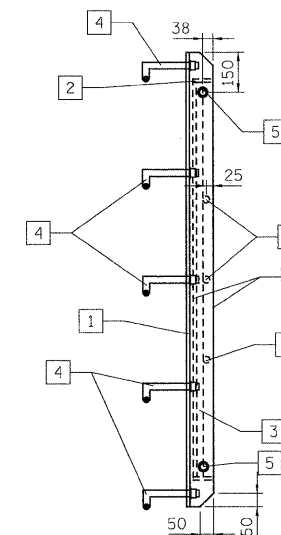


VIEW B-B



MATERIAL LIST

- 1 100 x 100 x 13 angle
- 2 75 x 13 solid flat
- 3 25 solid round
- 4 25 x 150 anchor bolts
- 5 25 x 125 hex bolt w/ nut and washers



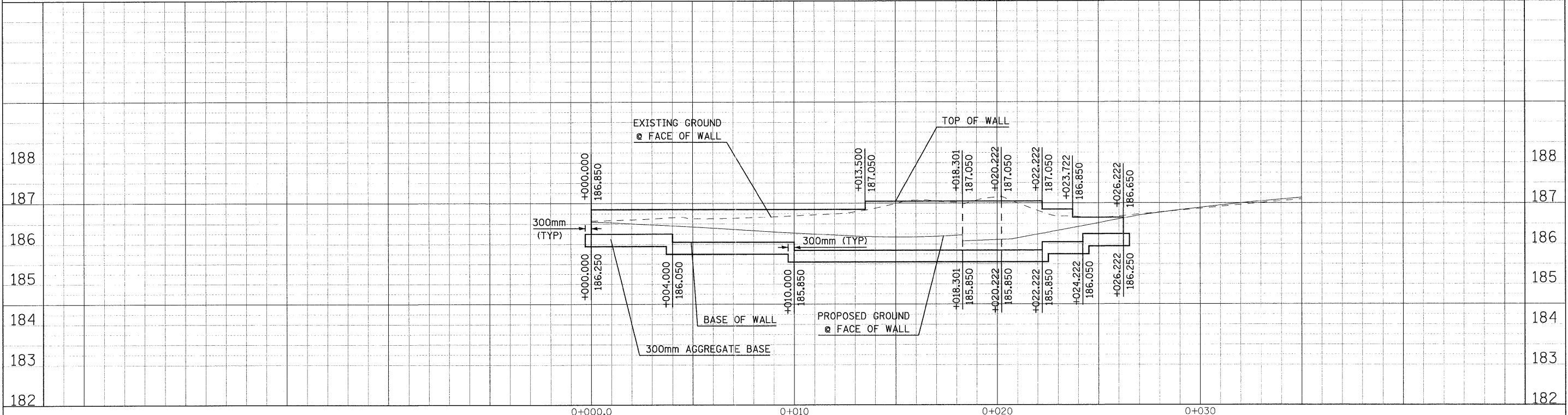
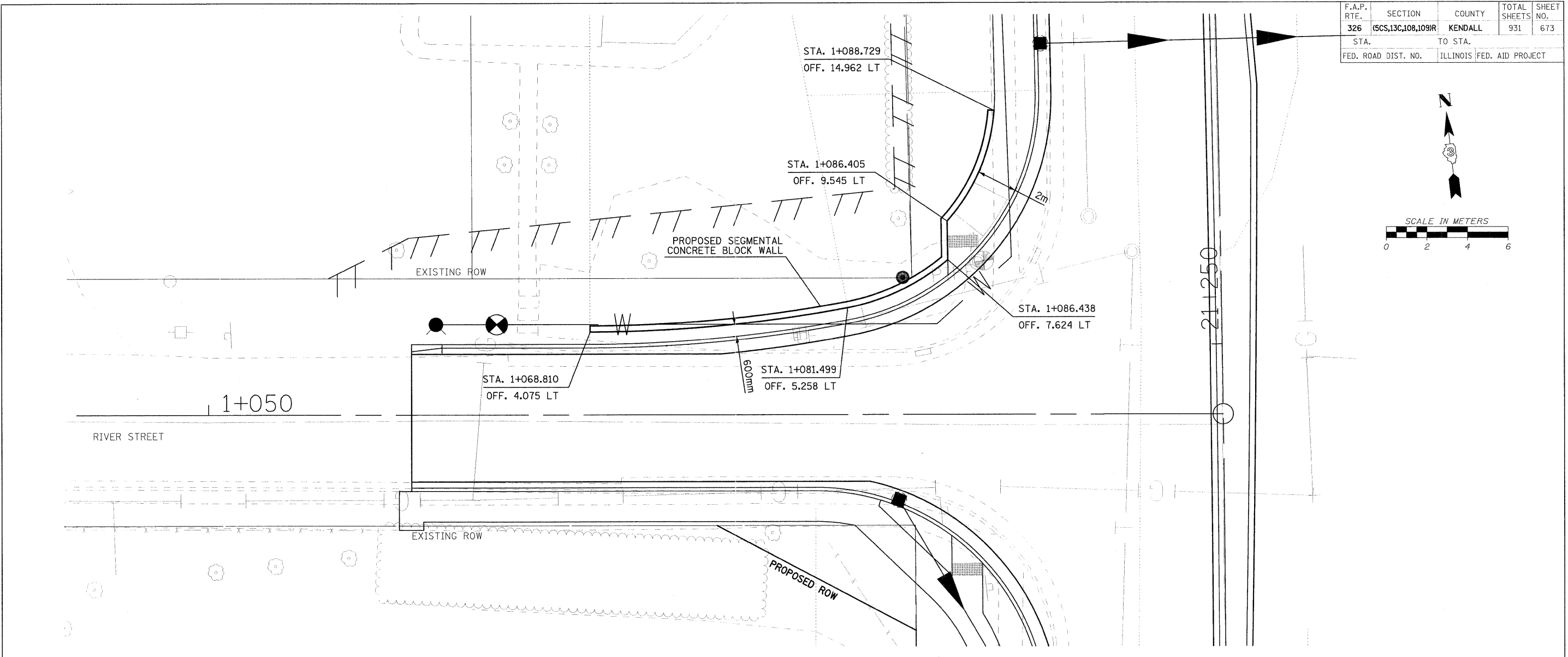
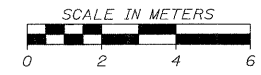
GRATE DETAIL

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		STORM SEWER OUTLET STRUCTURE DETAILS (2 OF 2) DRAWN BY _____ CHECKED BY _____ DATE _____

FILE: 671-672outlet_struct.sht.dgn PLOTTED: 8/11/2011

HMG JOB NO. 5122

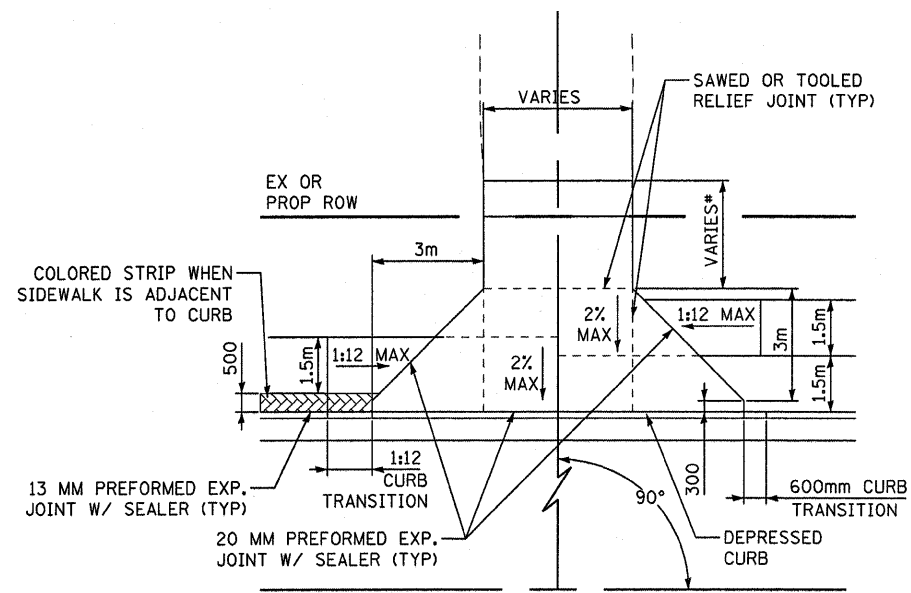
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(6CS,13C,108,109)R	KENDALL	931	673
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



FILE: 673DET_SHT_RIVERWALL.dgn
PLOTTED: 8/11/2011

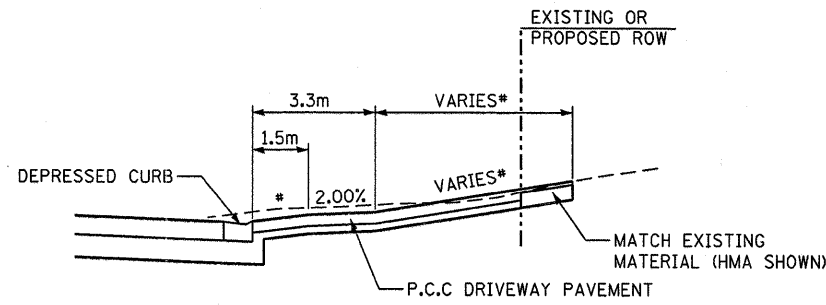
HMG JOB NO. 5122

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(SCS.13C.108.109R)	KENDALL	931	674
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

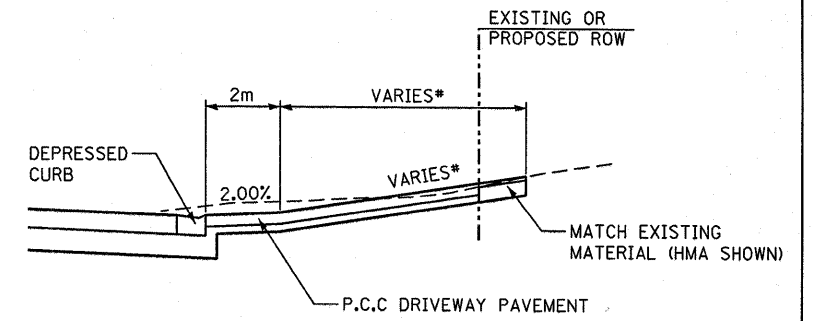


FIELD AND PRIVATE ENTRANCE

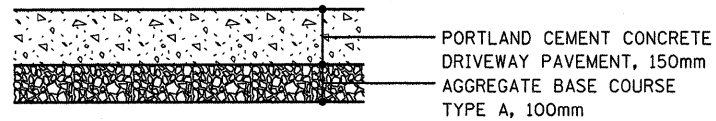
* SEE CROSS SECTIONS FOR ENTRANCE LIMITS AND SLOPES
SEE PLAN FOR ENTRANCE WIDTHS



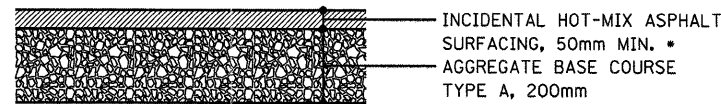
**FIELD AND PRIVATE ENTRANCE
(W/ OFFSET SIDEWALK)**



**FIELD AND PRIVATE ENTRANCE
(W/ SIDEWALK AGAINST CURB)**

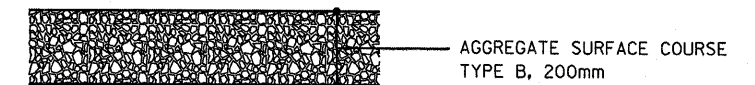


**FIELD AND PRIVATE ENTRANCE
P.C.C. PAVEMENT**



**FIELD AND PRIVATE ENTRANCE
HOT-MIX ASPHALT PAVEMENT**

* MATCH EXISTING PAVEMENT THICKNESS. TOTAL THICKNESS (HMA & AGG.) SHALL BE 250mm.



**FIELD AND PRIVATE ENTRANCE
AGGREGATE**

FILE: \$FILE\$
PLOTTED: 9/2/2011

REVISIONS	
NAME	DATE
BDD	9/1/11

ILLINOIS DEPARTMENT OF TRANSPORTATION

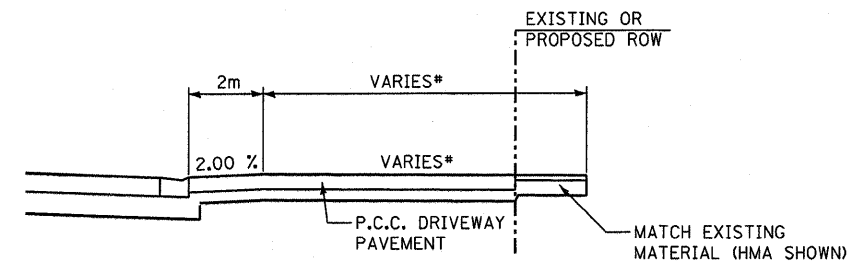
FIELD AND PRIVATE
ENTRANCE DETAILS

DRAWN BY
CHECKED BY

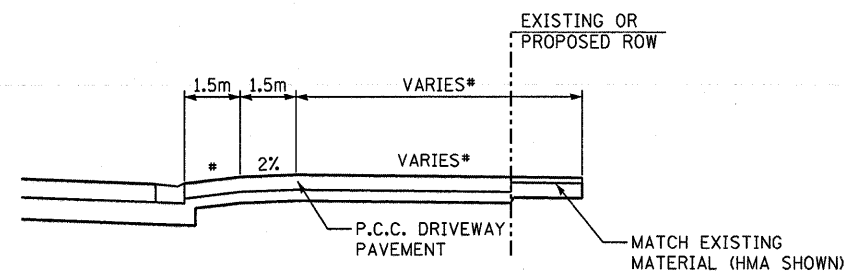
DATE

HMG JOB NO. 5122

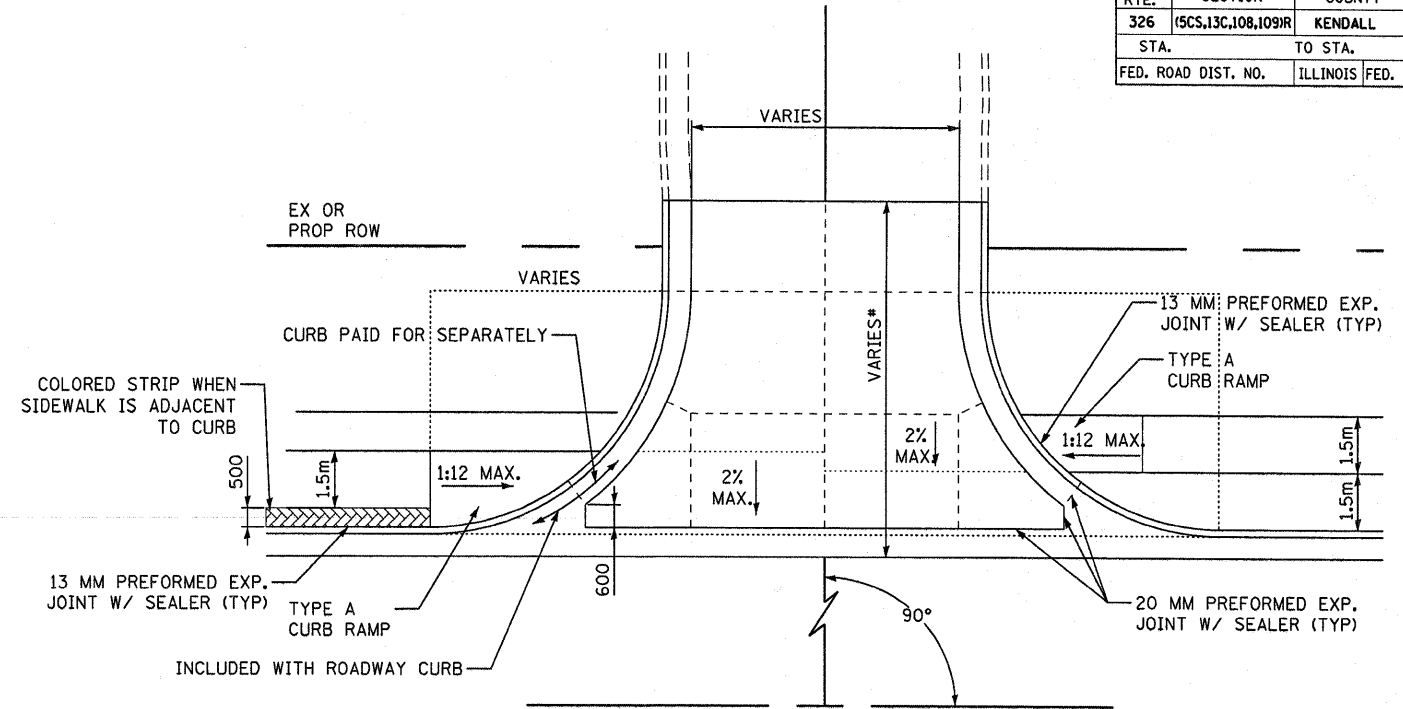
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(5CS,13C,108,109)R	KENDALL	931	675
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



**COMMERCIAL ENTRANCE
(W/ CURB ROUNDINGS AND SIDEWALK AGAINST CURB)**

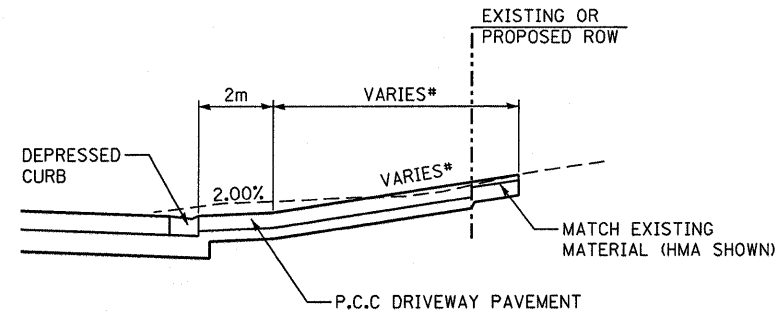


**COMMERCIAL ENTRANCE
(W/ CURB ROUNDINGS AND OFFSET SIDEWALK)**

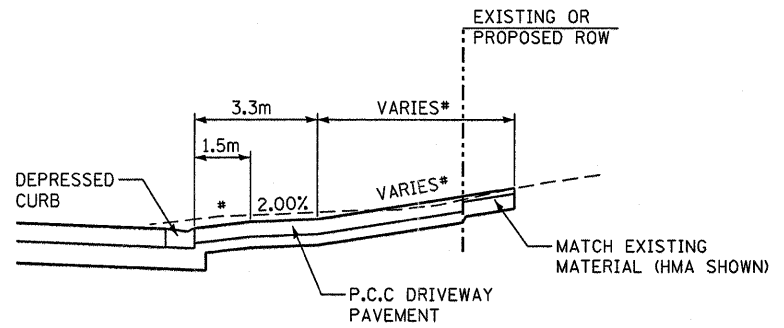


**COMMERCIAL ENTRANCE
(W/ CURB ROUNDINGS)**

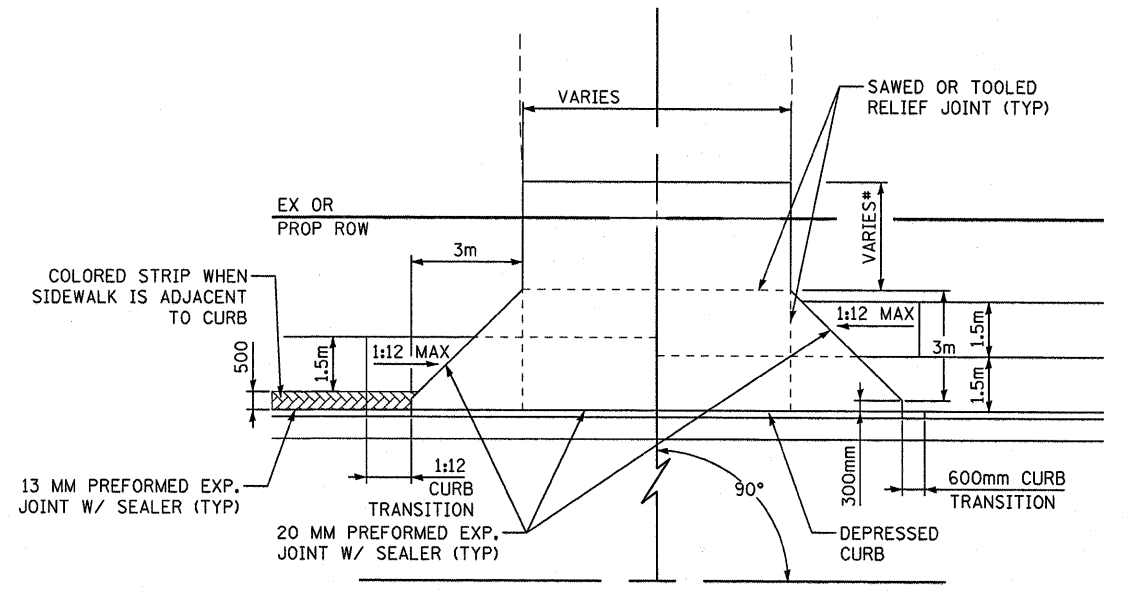
* SEE CROSS SECTIONS FOR ENTRANCE LIMITS AND SLOPES
SEE PLAN FOR ENTRANCE RADII AND WIDTHS



**COMMERCIAL ENTRANCE
(W/ FLARES AND SIDEWALK AGAINST CURB)**

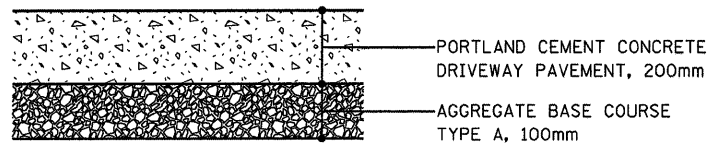


**COMMERCIAL ENTRANCE
(W/ FLARES AND OFFSET SIDEWALK)**

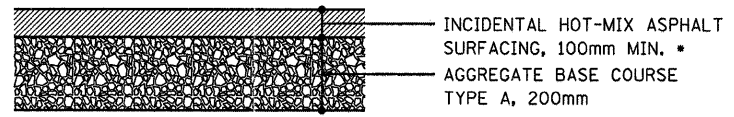


**COMMERCIAL ENTRANCE
(W/ FLARES)**

* SEE CROSS SECTIONS FOR ENTRANCE LIMITS AND SLOPES
SEE PLAN FOR ENTRANCE WIDTHS



**COMMERCIAL ENTRANCE
P.C.C. PAVEMENT**



**COMMERCIAL ENTRANCE
HOT-MIX ASPHALT PAVEMENT**

* MATCH EXISTING PAVEMENT THICKNESS. TOTAL THICKNESS (HMA & AGG.) SHALL BE 250mm.

REVISIONS	
NAME	DATE
BDD	9/1/11

ILLINOIS DEPARTMENT OF TRANSPORTATION

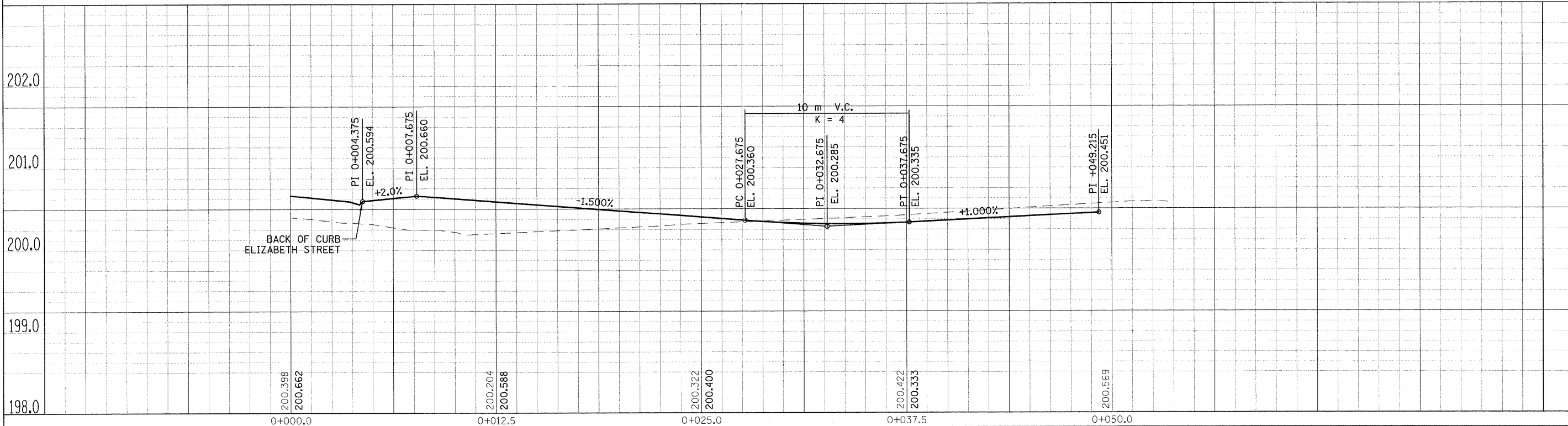
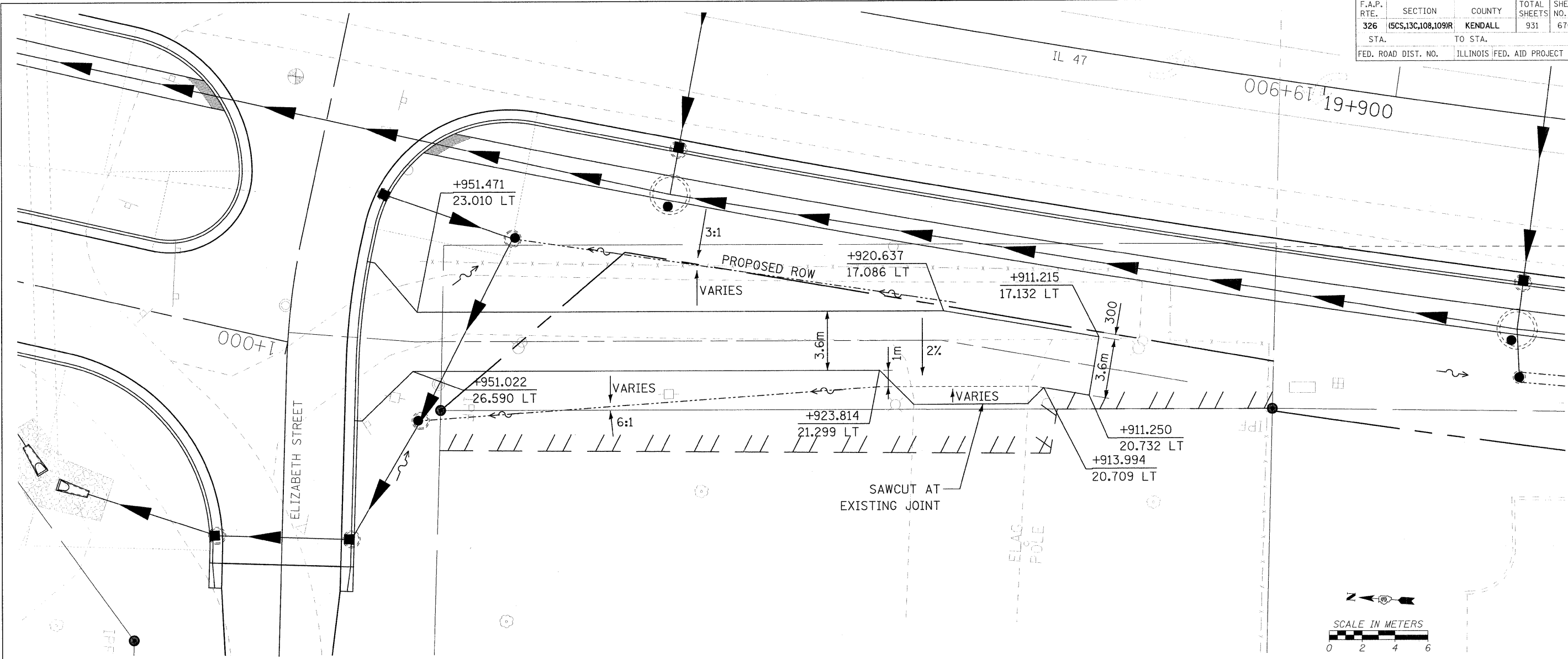
**COMMERCIAL
ENTRANCE DETAILS**

DATE _____ DRAWN BY _____
CHECKED BY _____

FILE: \$FILE\$
PLOTTED: 9/2/2011

HMG JOB NO. 5122

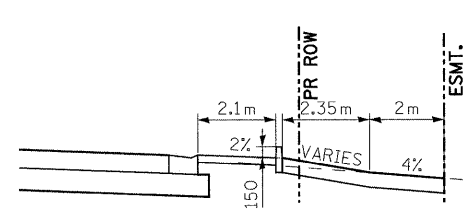
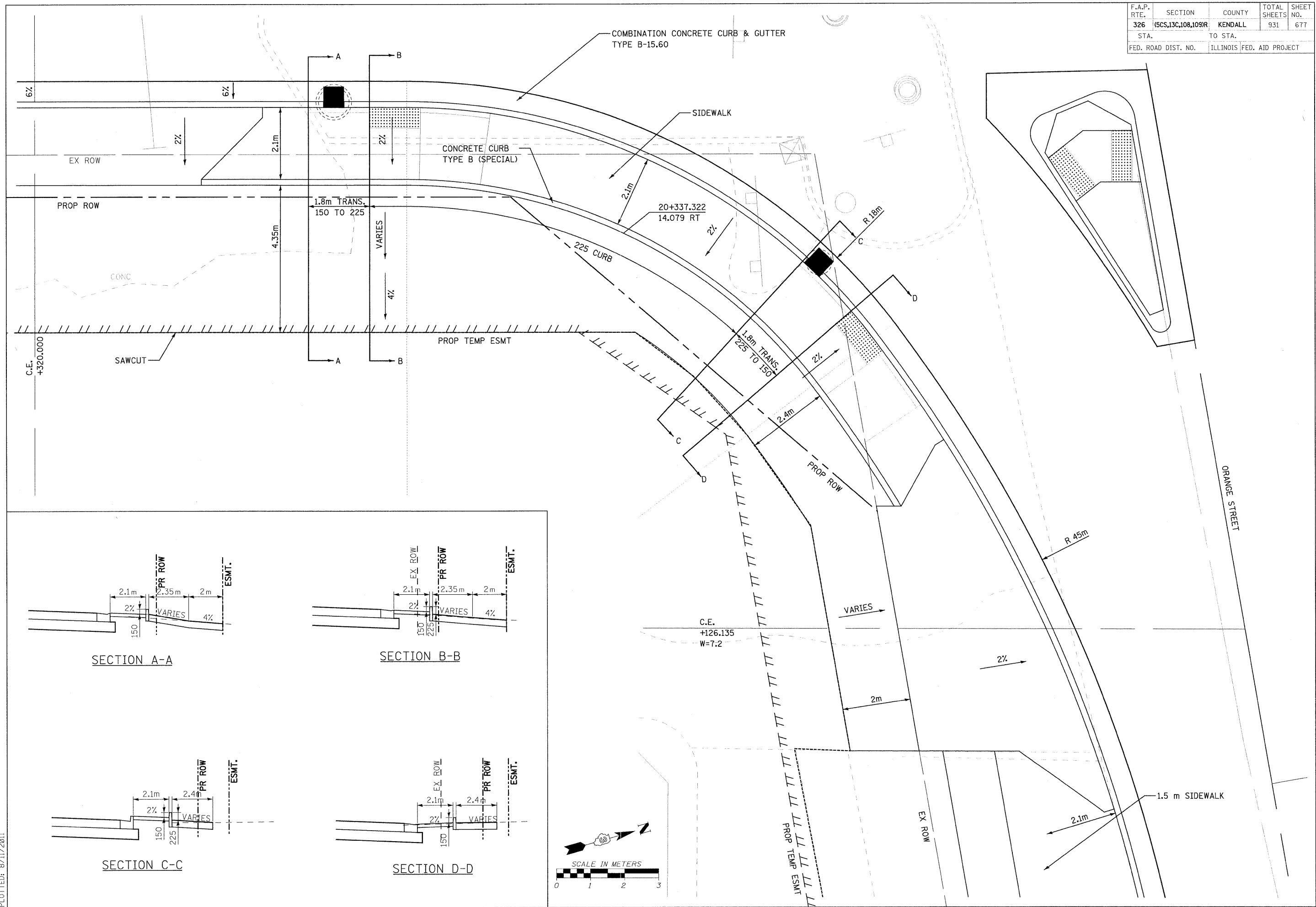
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(6CS,13C,108,109)R	KENDALL	931	676
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



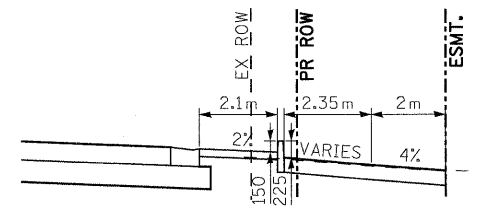
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PLOTTED: 8/11/2011

HMG JOB NO. 5122

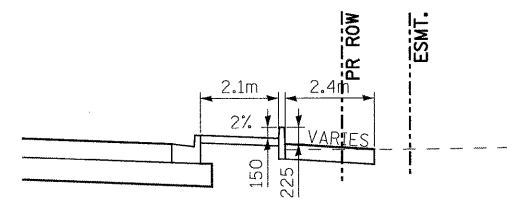
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(6CS,13C,108,109)R	KENDALL	931	677
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



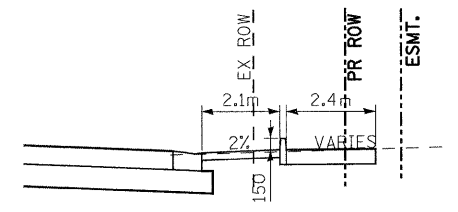
SECTION A-A



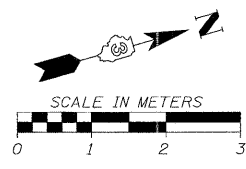
SECTION B-B



SECTION C-C



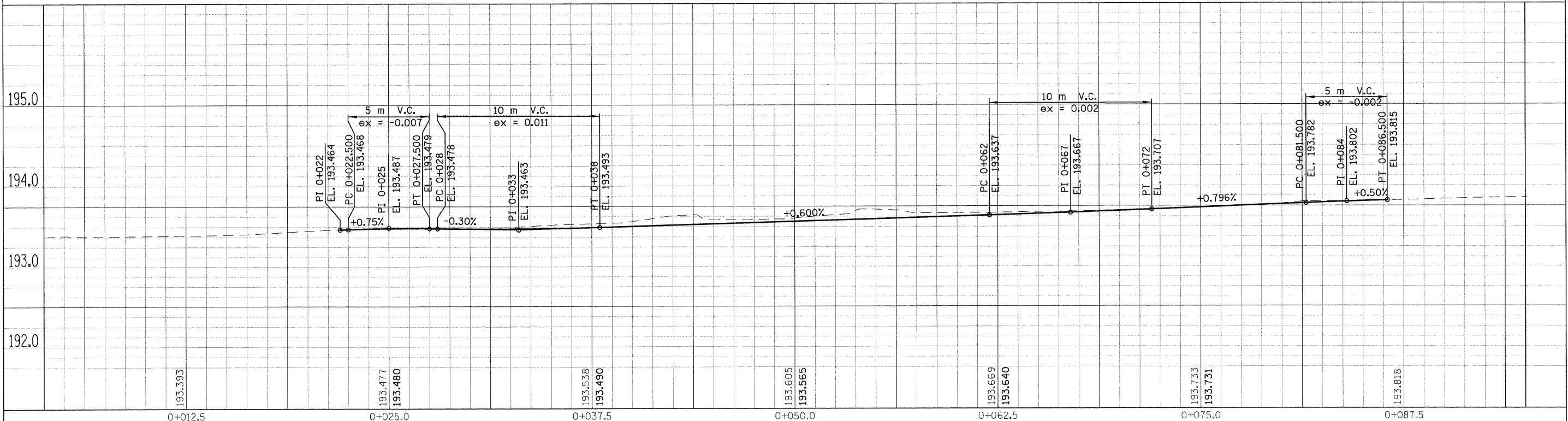
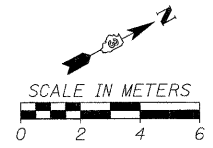
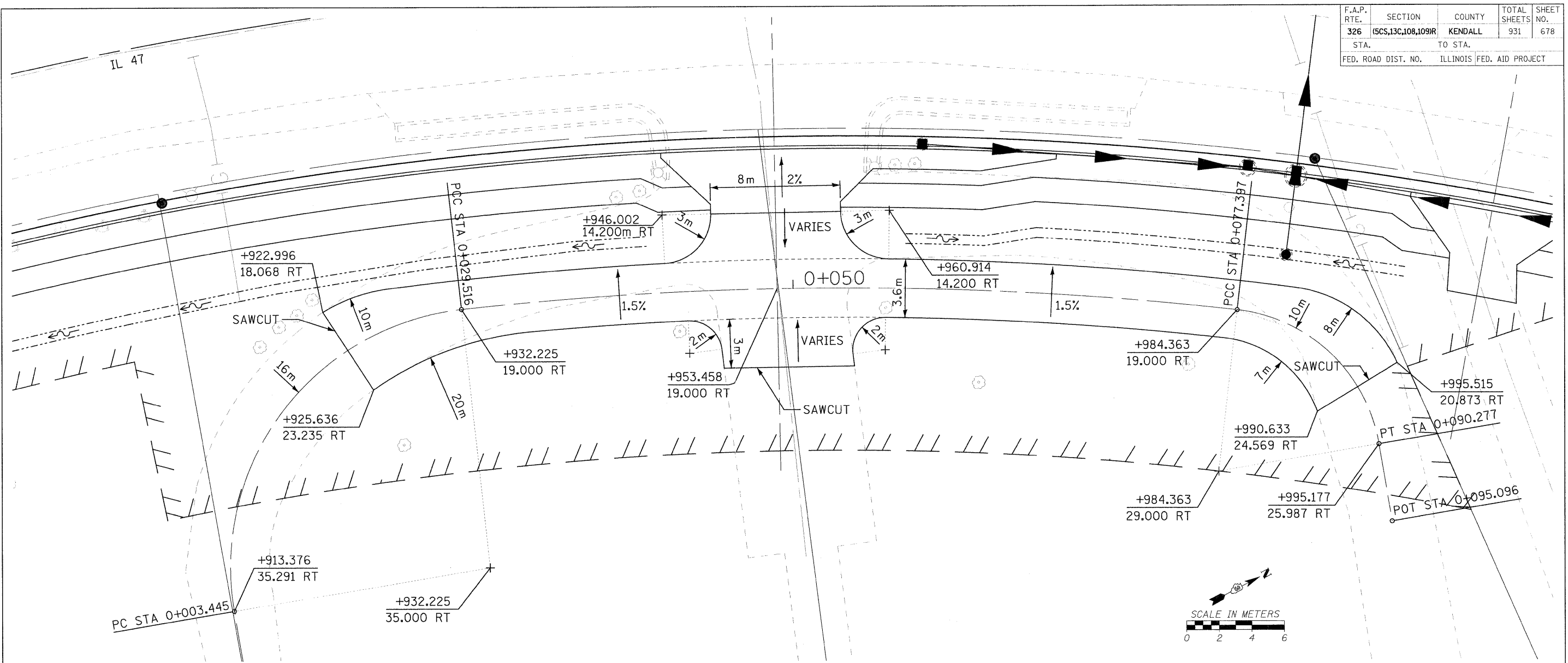
SECTION D-D



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PLOTTED: 8/11/2011

HMG JOB NO. 5122

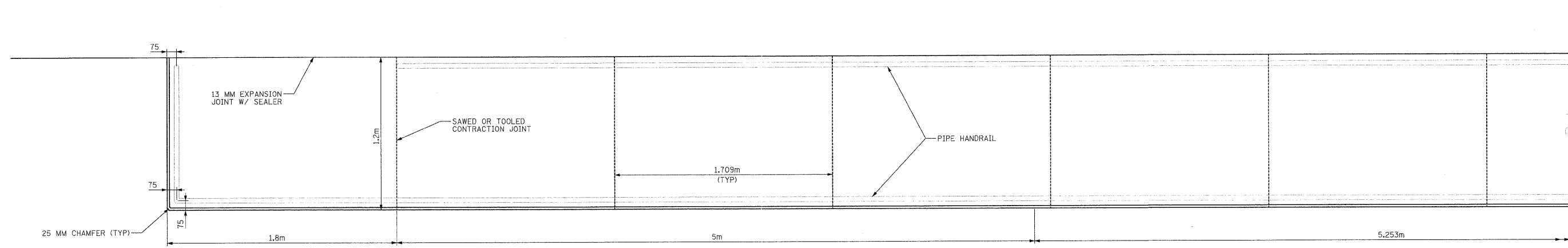
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(5CS,13C,108,109R)	KENDALL	931	678
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



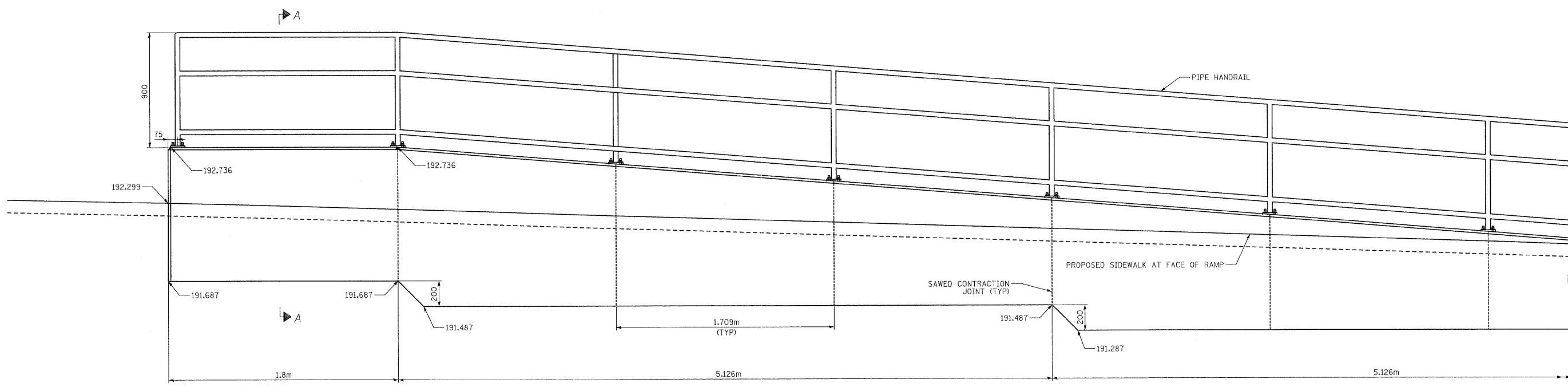
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PLOTTED: 8/11/2011

HMG JOB NO. 5122

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(6CS,13C,108,109R)	KENDALL	931	679
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



PLAN



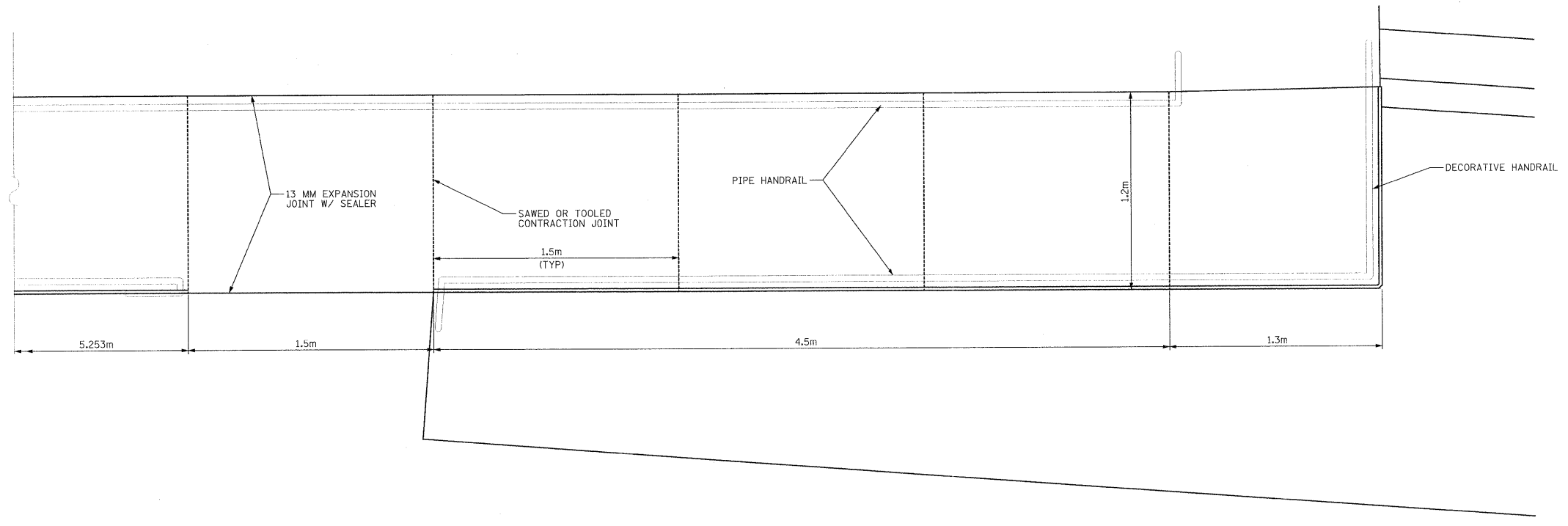
ELEVATION

FILE: 679-688DET_SHT_downtown_details.dgn
PLOTTED: 8/11/2011

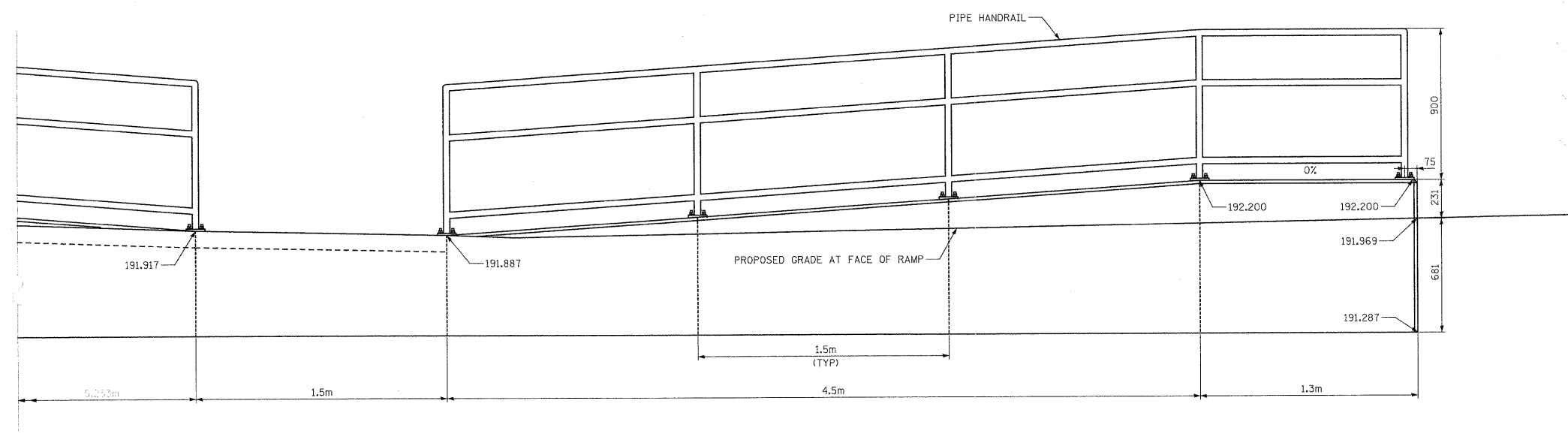
HMG JOB NO. 5122

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		ACCESS RAMP #1 PLAN AND ELEVATION (1 OF 2) DRAWN BY CHECKED BY
		DATE

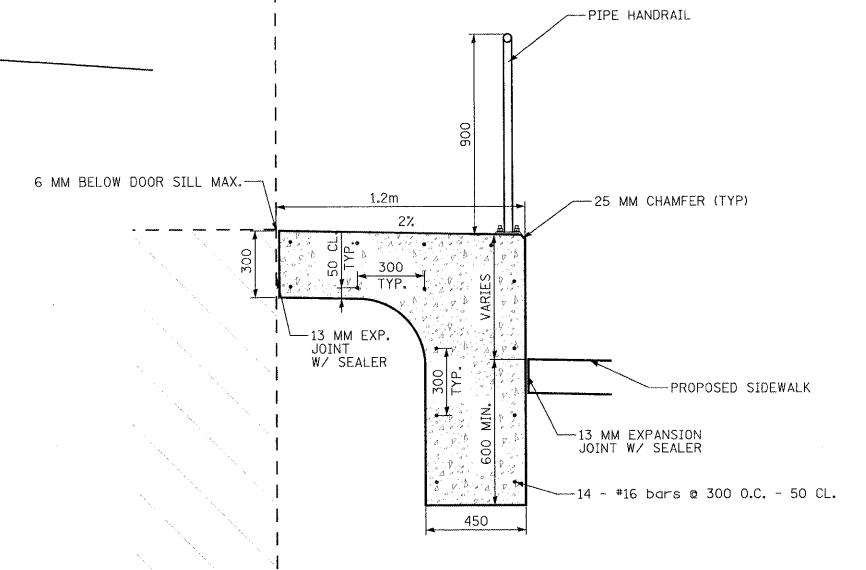
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(5CS,13C,108,109R)	KENDALL	931	680
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



PLAN



ELEVATION



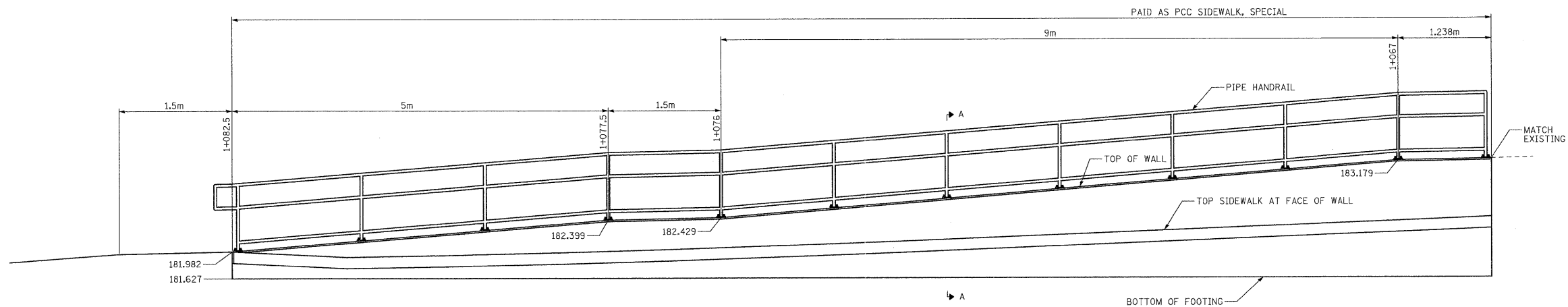
SECTION A-A

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PLOTTED: 8/11/2011

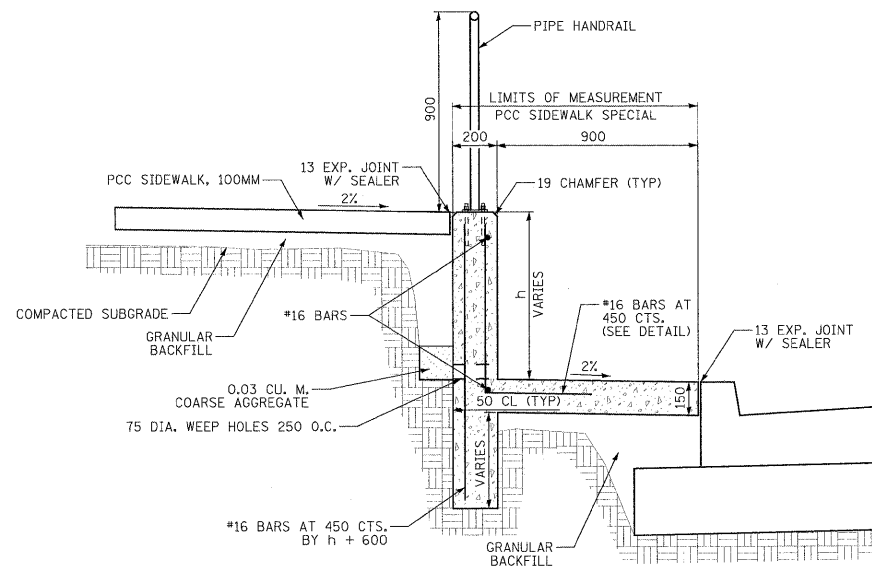
HMG JOB NO. 5122

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		ACCESS RAMP #1 PLAN, ELEVATION AND SECTION (2 OF 2)
DATE		DRAWN BY CHECKED BY

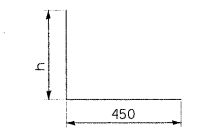
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(5CS,13C,108,109)R	KENDALL	931	681
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



ELEVATION



SECTION A-A



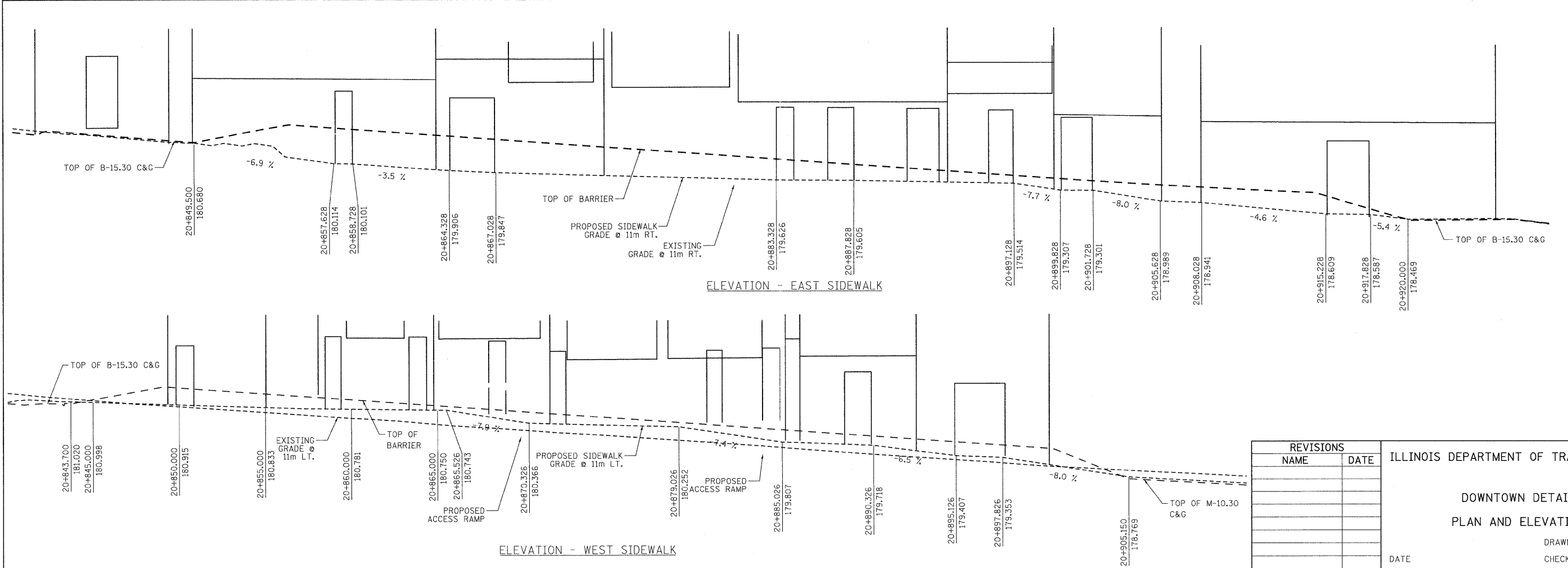
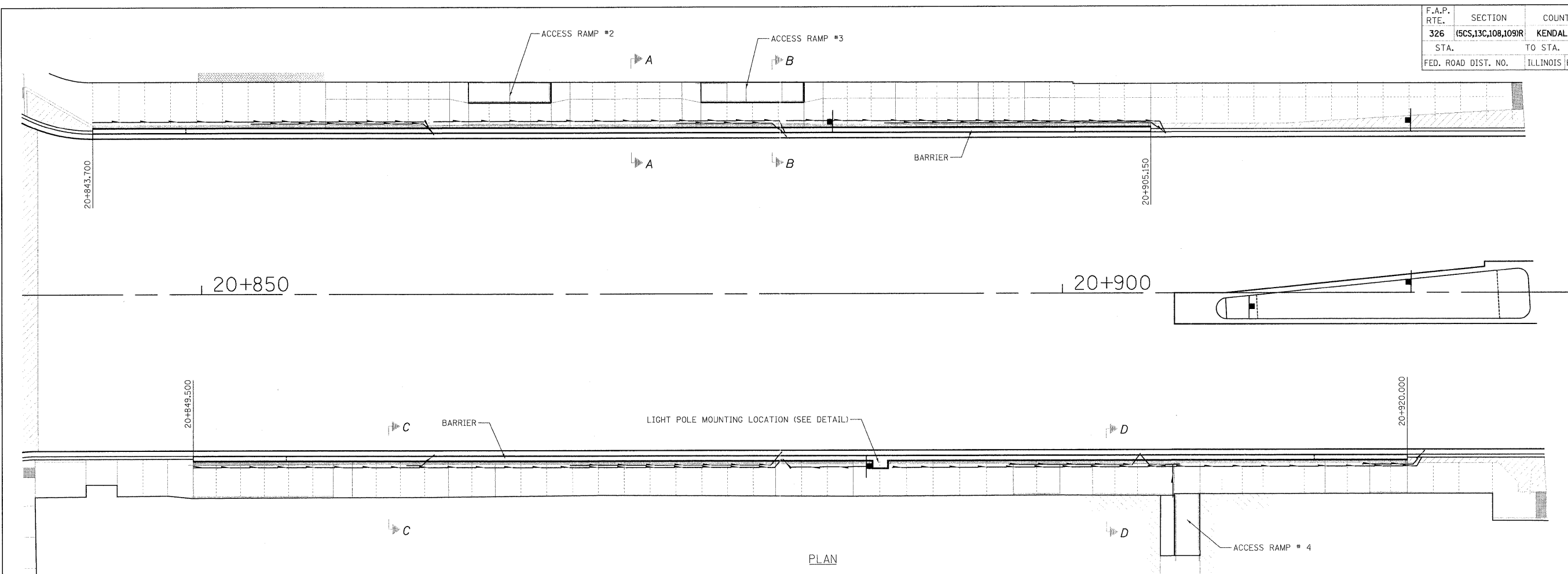
BENT BAR DETAIL

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		VAN EMMON STREET ELEVATED SIDEWALK DETAILS DRAWN BY CHECKED BY DATE

FILE: 679-688DET_SHT_downtown_details.dgn
PLOTTED: 8/11/2011

HMG JOB NO. 5122

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(5CS,13C,10B,109R)	KENDALL	931	682
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

DOWNTOWN DETAILS

PLAN AND ELEVATIONS

DRAWN BY _____

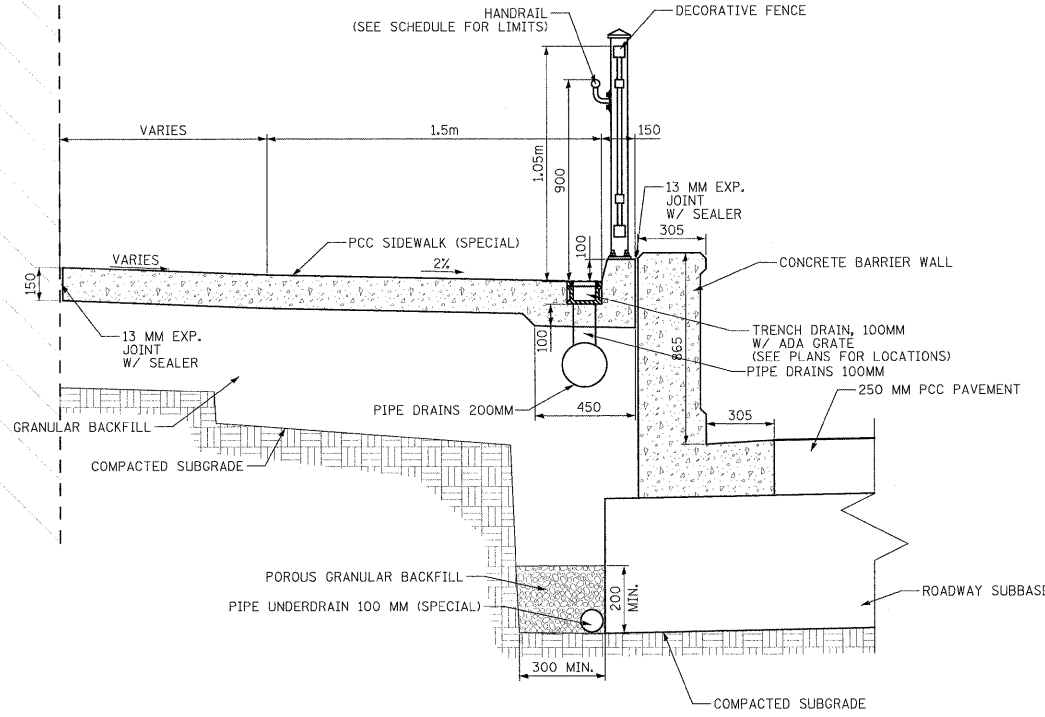
CHECKED BY _____

DATE _____

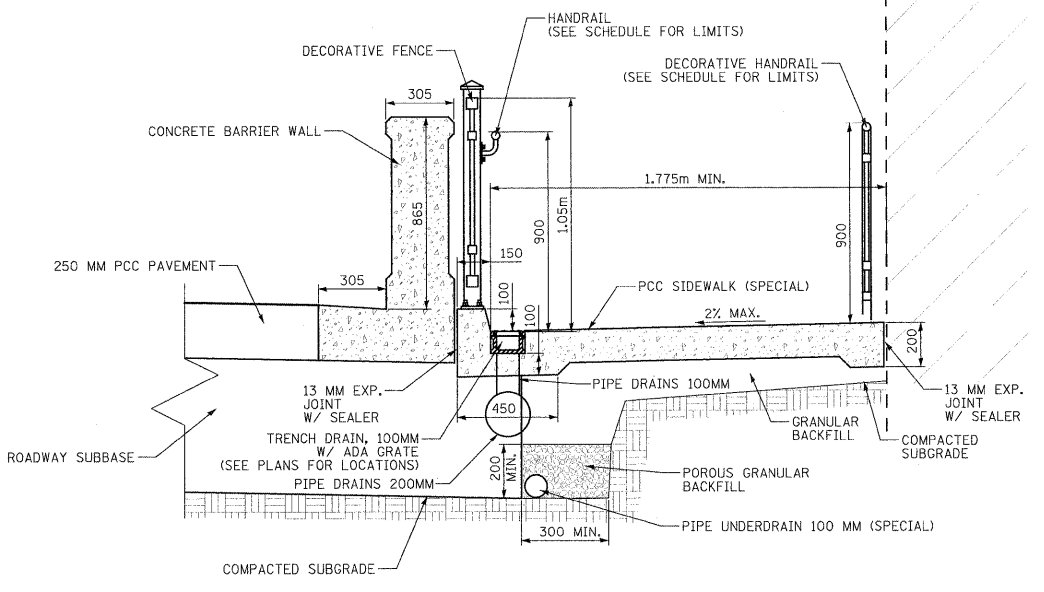
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 PLOTTED: 8/11/2011

HMG JOB NO. 5122

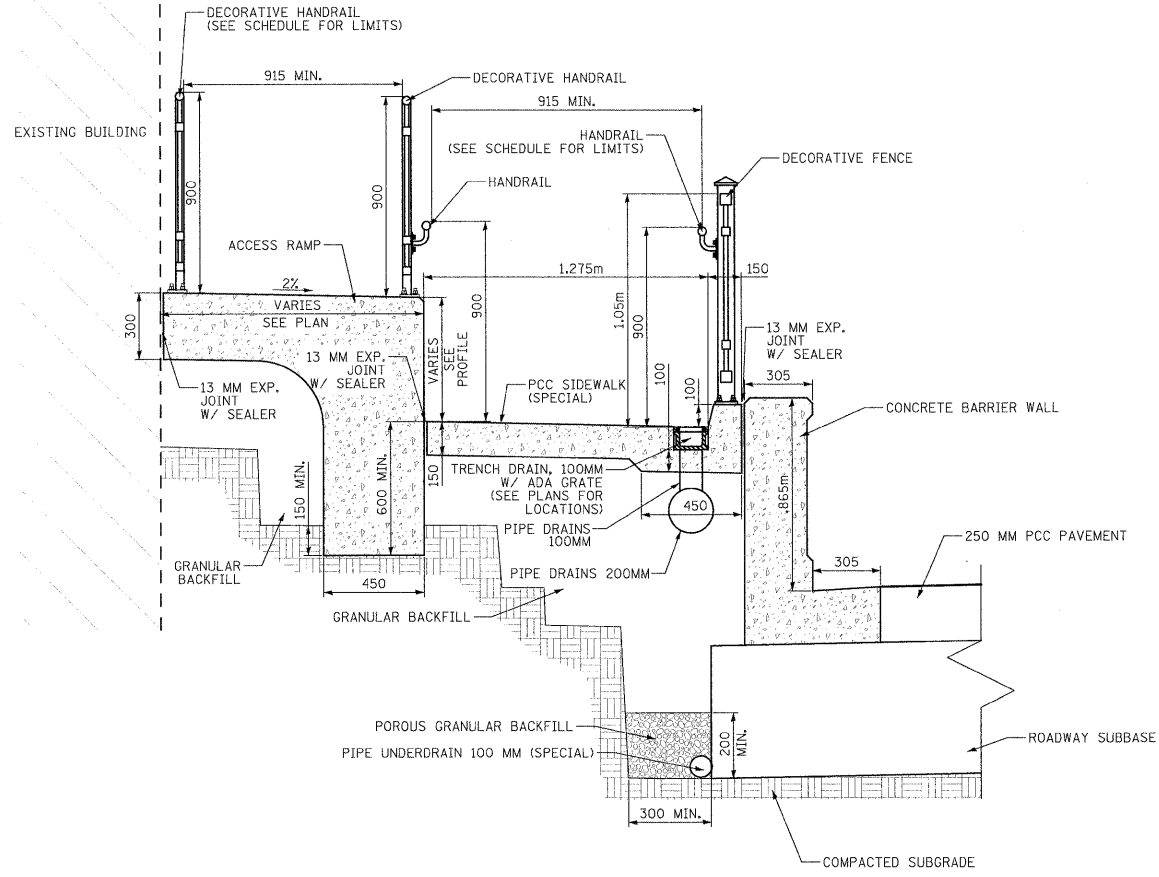
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(6CS,13C,108,109R)	KENDALL	931	683
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS		FED. AID PROJECT	



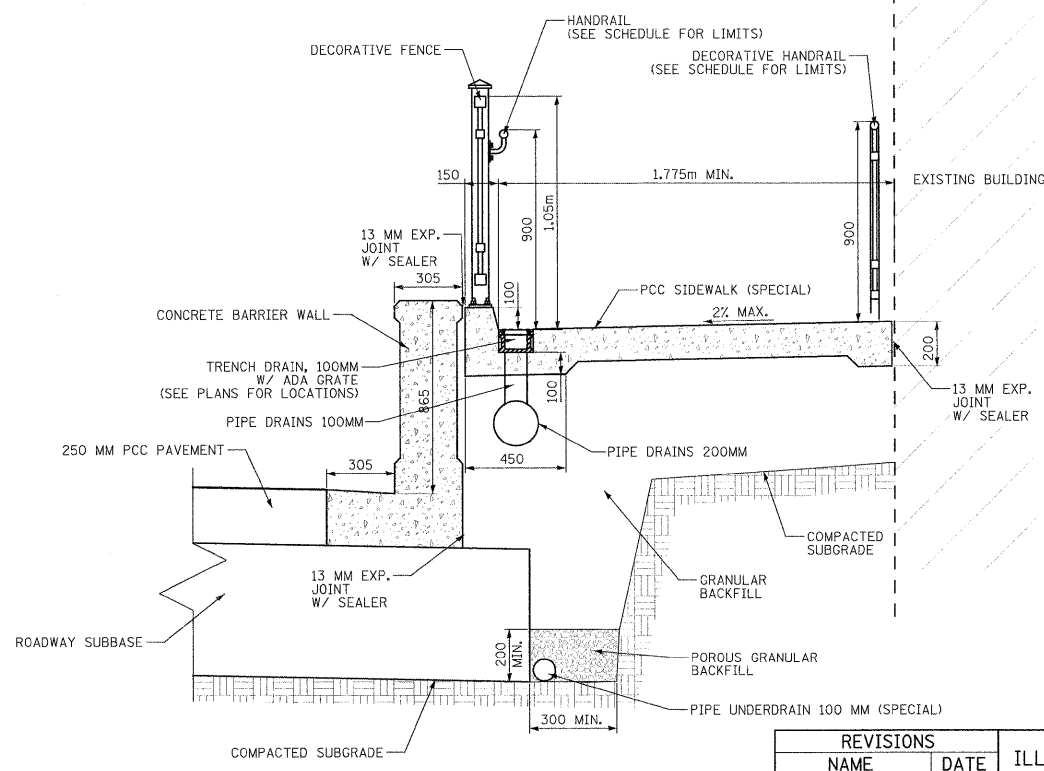
SECTION A-A



SECTION C-C



SECTION B-B



SECTION D-D

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

DOWNTOWN DETAILS SECTIONS

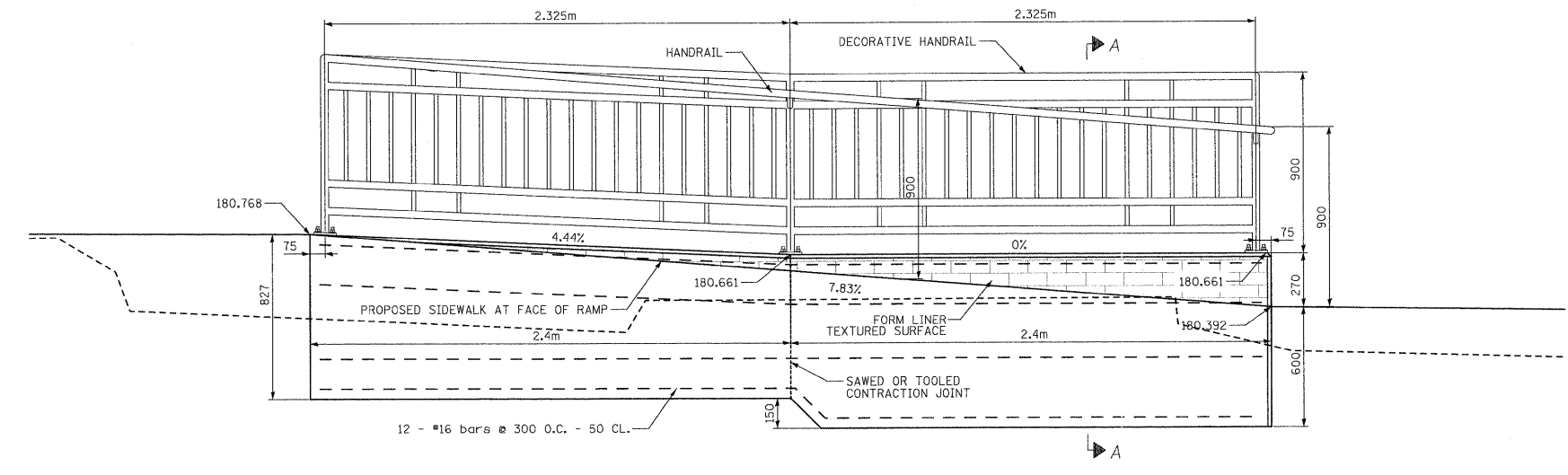
DATE _____ DRAWN BY _____ CHECKED BY _____

FILE: 679-688DET_SHT_downtown_details.dgn
PLOTTED: 8/11/2011

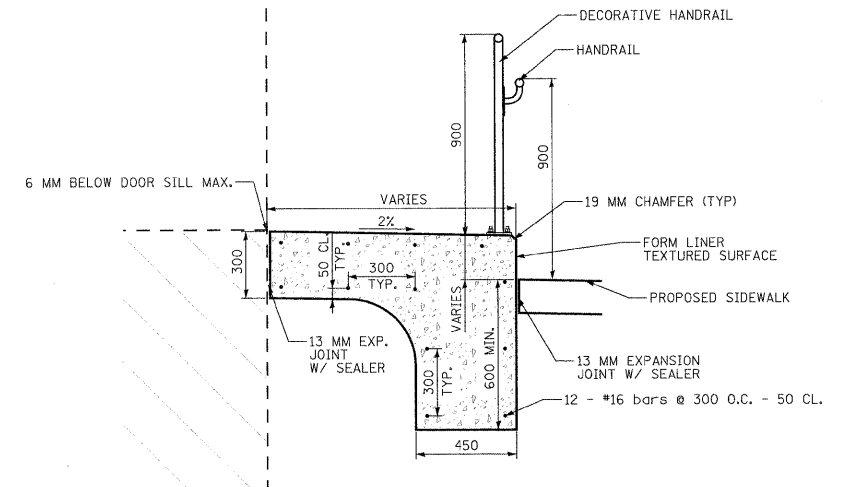
PIPE DRAINS SHALL BE INSTALLED AT A MINIMUM 2% SLOPE TO THE NEAREST DRAINAGE STRUCTURE. ALL FITTINGS REQUIRED TO COMPLETE INSTALLATION SHALL BE INCLUDED IN THE COST OF PIPE DRAINS.

HMG JOB NO. 5122

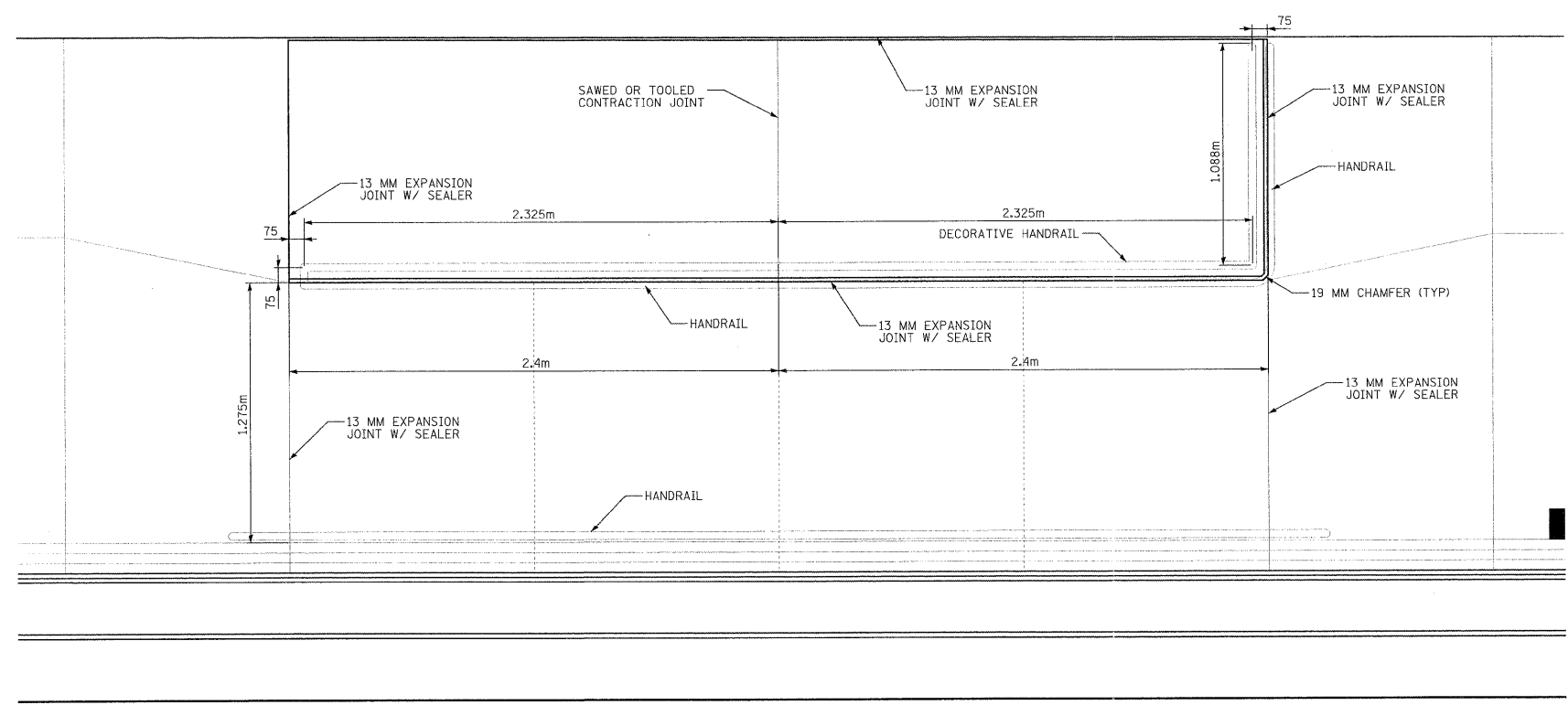
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(5CS,13C,108,109)R	KENDALL	931	684
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



ELEVATION



SECTION A-A



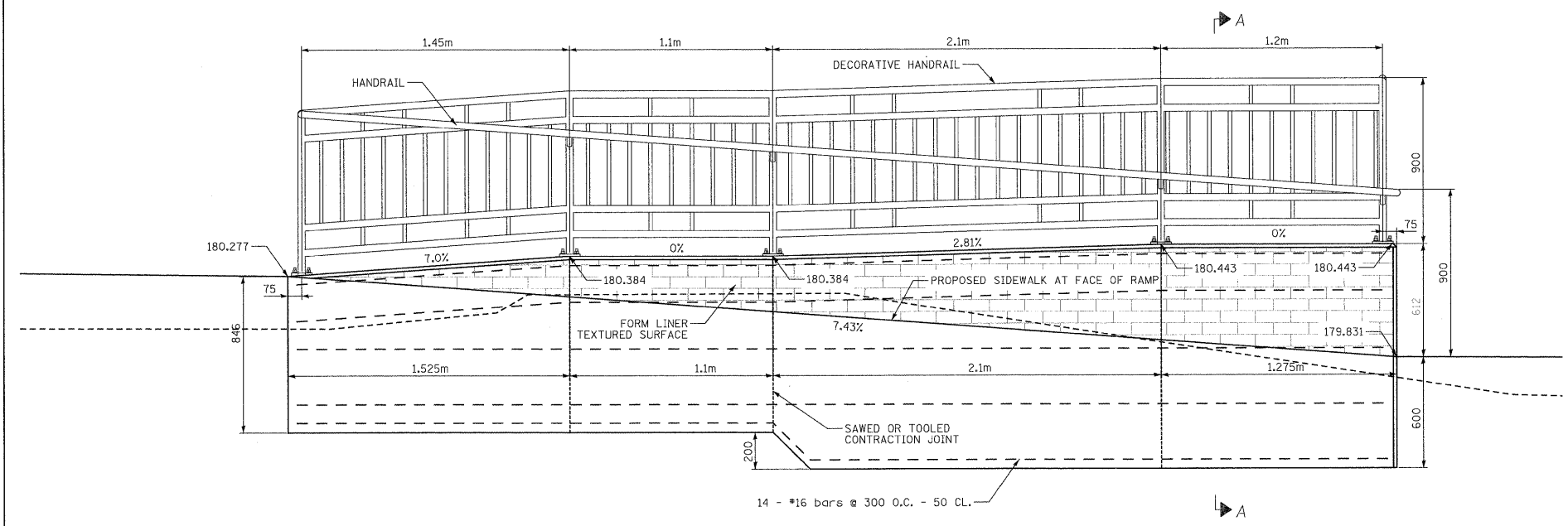
PLAN

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		ACCESS RAMP #2 DETAILS
DATE		DRAWN BY CHECKED BY

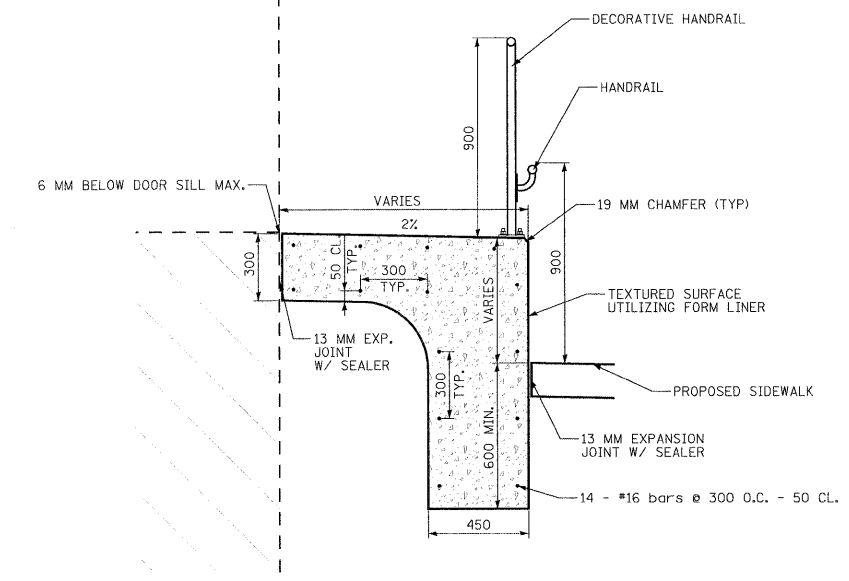
FILE: 679-688DET_SHT_downtown_details.dgn
PLOTTED: 8/11/2011

HMG JOB NO. 5122

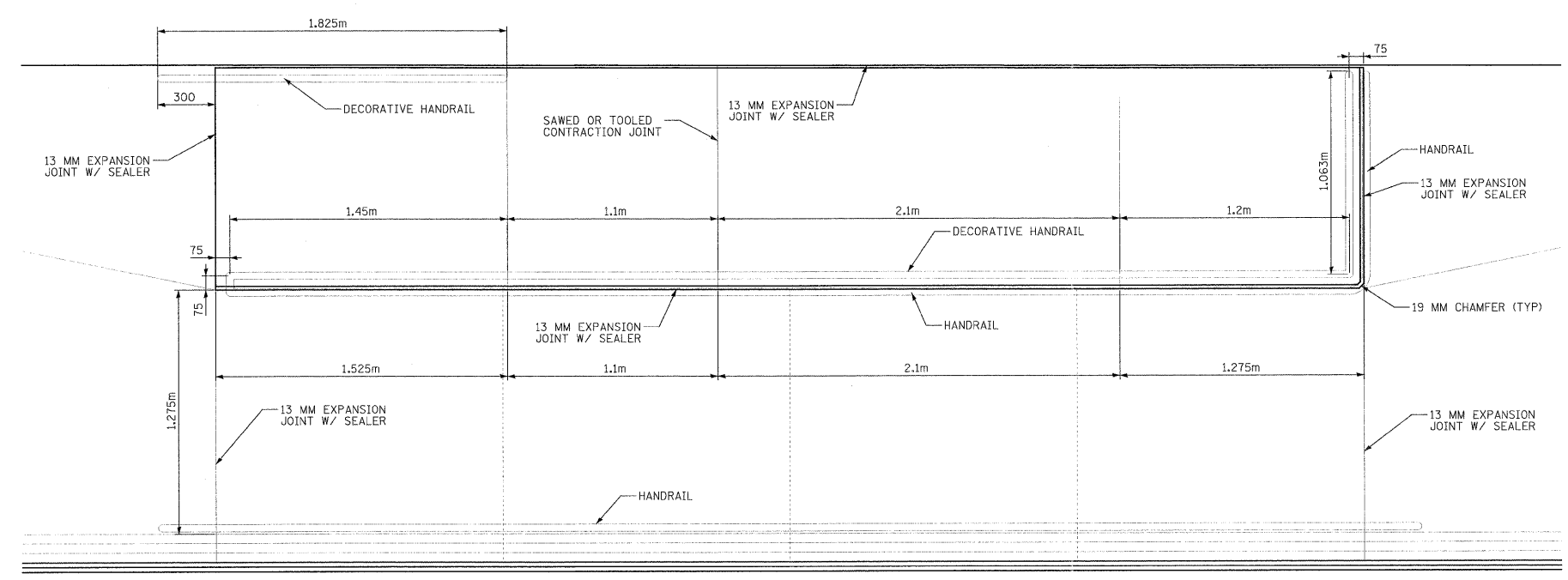
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(5CS,13C,108,109R)	KENDALL	931	685
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



ELEVATION



SECTION A-A

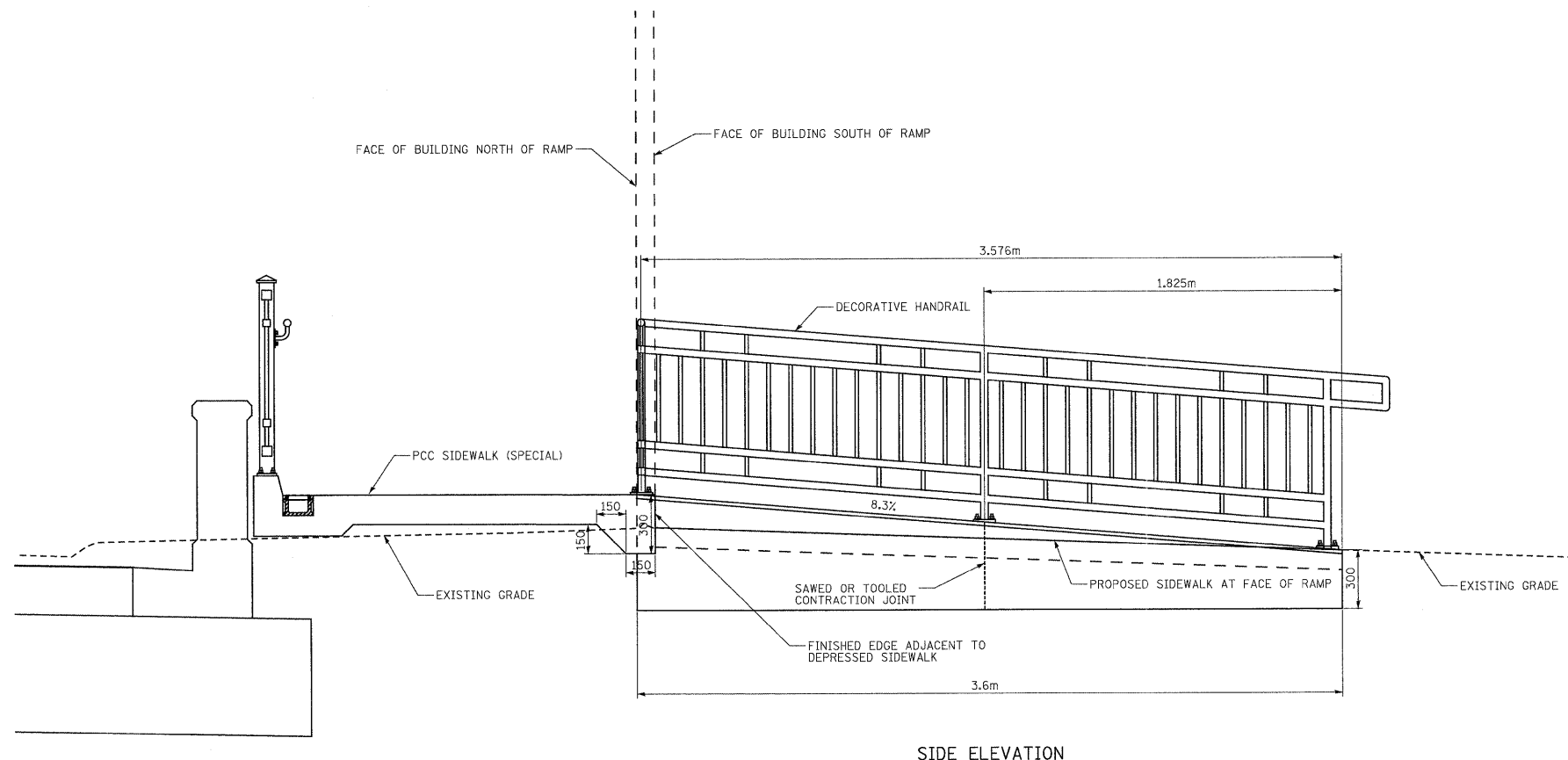


FILE: 679-688DET_SHT_downtown_details.dgn
PLOTTED: 8/11/2011

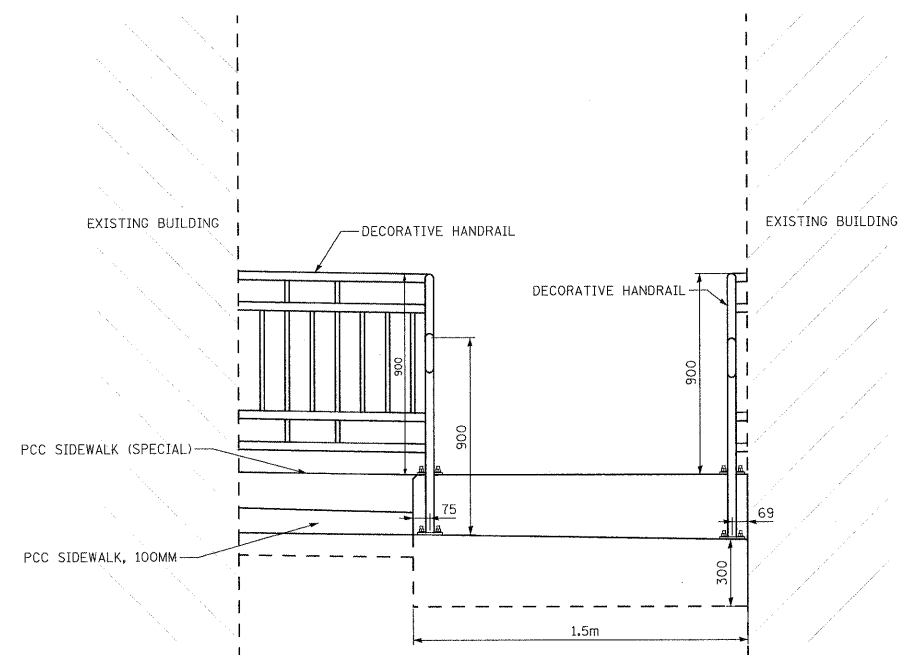
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		ACCESS RAMP #3 DETAILS DRAWN BY _____ CHECKED BY _____ DATE _____

HMG JOB NO. 5122

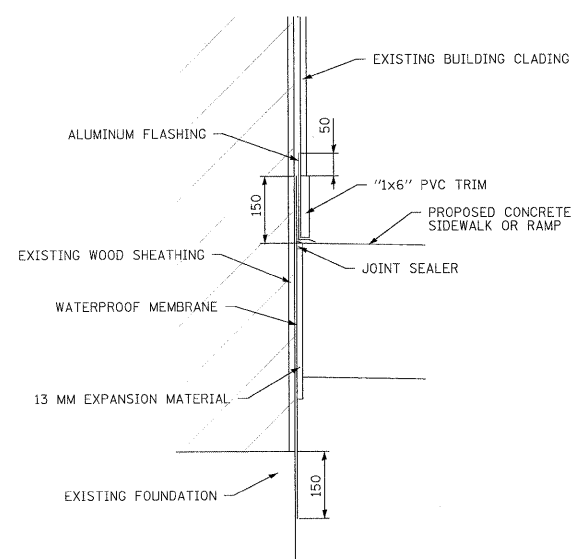
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(5CS,13C,108,109)R	KENDALL	931	686
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



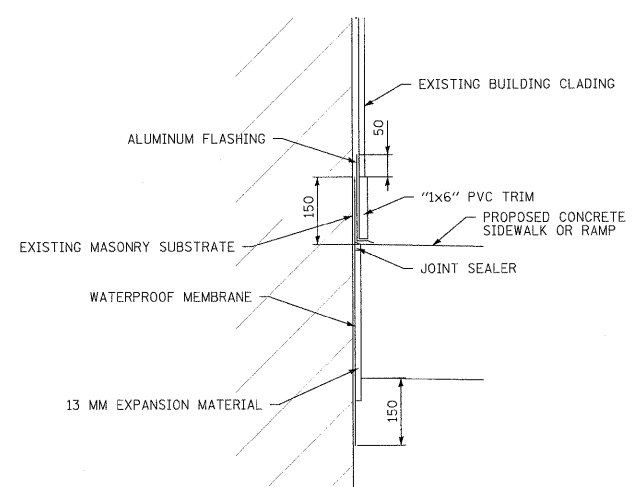
SIDE ELEVATION



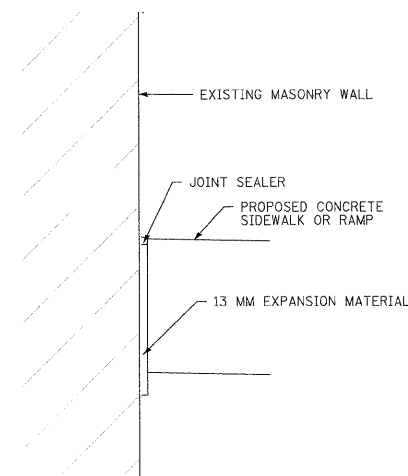
FRONT ELEVATION



FRAME CONSTRUCTION



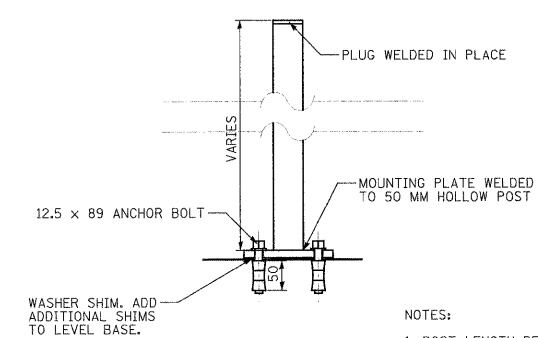
MASONRY CONSTRUCTION W/ CLADDING



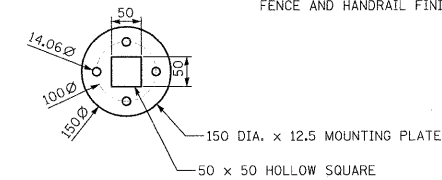
MASONRY CONSTRUCTION

FLASHING DETAIL FOR PROPOSED CONCRETE IN CONTACT WITH BUILDING FACE
(INCLUDED IN COST OF THE CONCRETE ITEM)

- NOTES:
- CUT AND REMOVE EXISTING CLADDING AS NEEDED TO INSTALL FLASHING AND TRIM.
 - JOINT BETWEEN EXISTING CLADDING AND NEW TRIM SHALL BE SEALED WITH A PAINTABLE, ACRYLIC CAULK DESIGNED FOR EXTERIOR APPLICATIONS.
 - SEE SPECIAL PROVISIONS FOR MORE DETAILED INFORMATION ON ACCEPTABLE MATERIALS.



- NOTES:
- POST LENGTH DETERMINED BY SIGNS TO BE INSTALLED (SEE SCHEDULE).
 - SIGNS SHALL BE MOUNTED TO POST USING THE IDOT STANDARD 720001 FOR WOOD OR TELESCOPING STEEL POSTS.
 - SIGN SUPPORT FINISH SHALL MATCH THE DECORATIVE FENCE AND HANDRAIL FINISH.



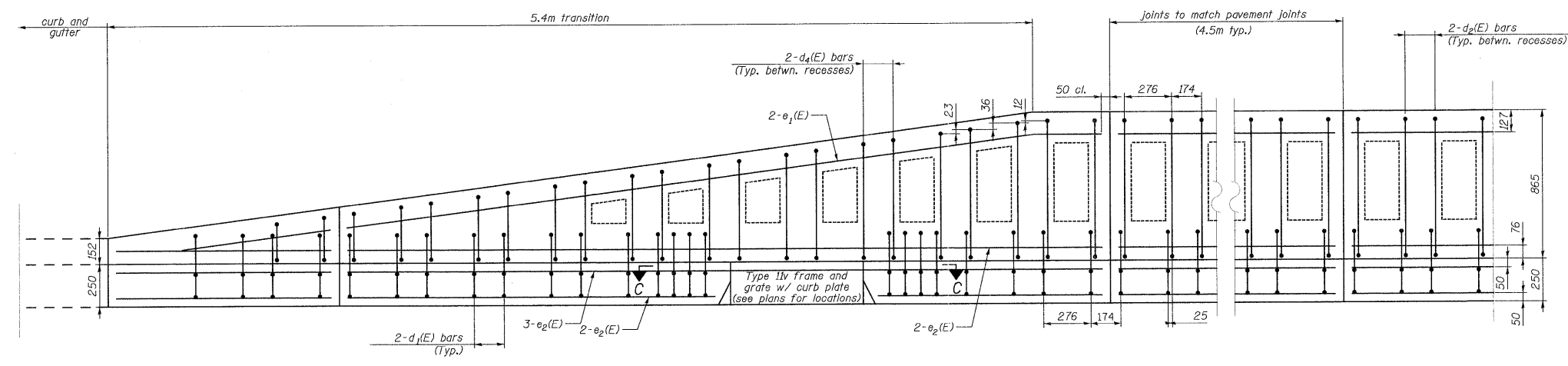
STEEL SIGN SUPPORT, SPECIAL

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION ACCESS RAMP #4 BUILDING FLASHING AND STEEL SIGN SUPPORT, SPECIAL DETAILS
NAME	DATE	
		DRAWN BY CHECKED BY DATE

FILE: 679-688DET_SHT_downtown_details.dgn PLOTTED: 8/11/2011

HMG JOB NO. 582

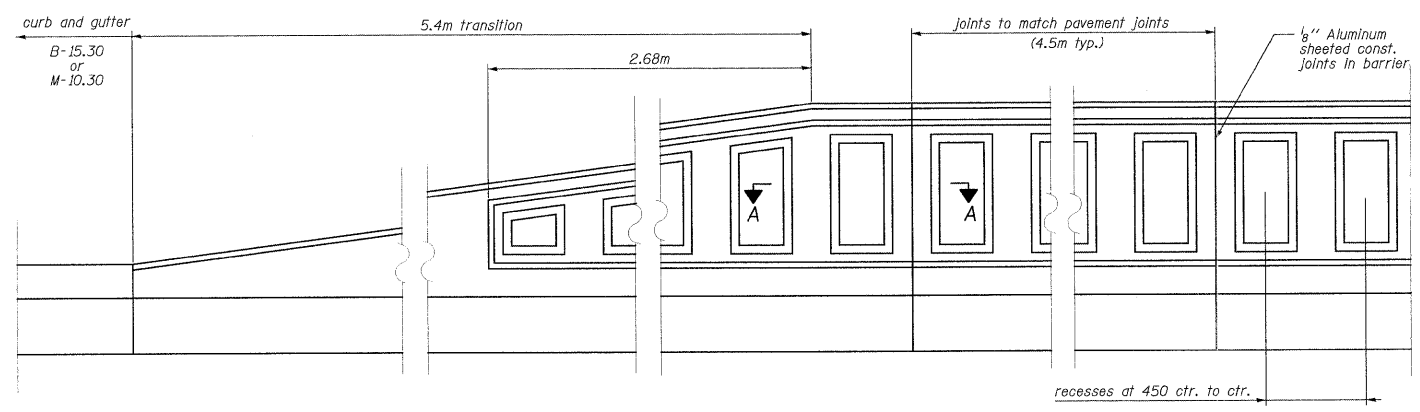
CONTRACT NO. 66671				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(SCS,13C,108,109)R	KENDALL	931	687
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS		FED. AID PROJECT	



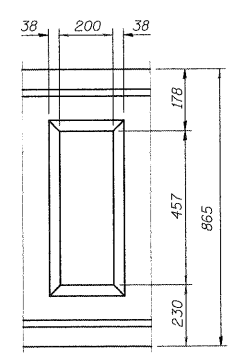
TYPICAL REINFORCEMENT PLACEMENT

Notes:

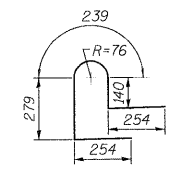
- All concrete for barrier wall shall be Class BS according to Article 1020.04 of the Standard Specifications. Surface of barrier shall receive a rubbed finish according to Article 503.15(b) of the Standard Specifications.
- All parts of the barrier including concrete and reinforcing will be paid for at the contract unit price per foot for Concrete Barrier Wall (Special).
- Holes and recesses must be formed or cored. Drilling is not permitted.
- Aluminum sheets shall be according to ASTM B209 alloy 3003-H14.



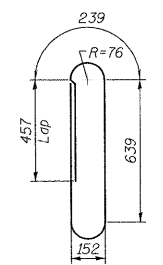
ELEVATION



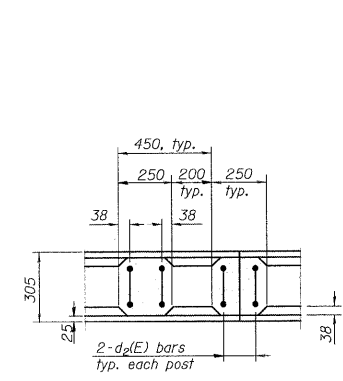
RECESS DETAIL



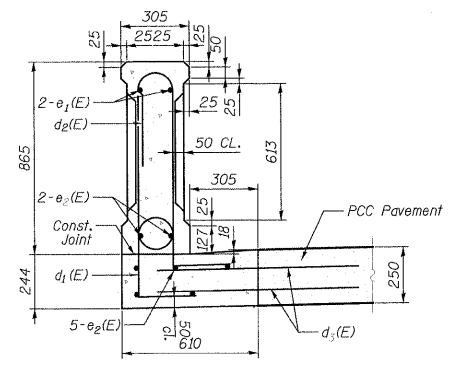
BAR d1(E)



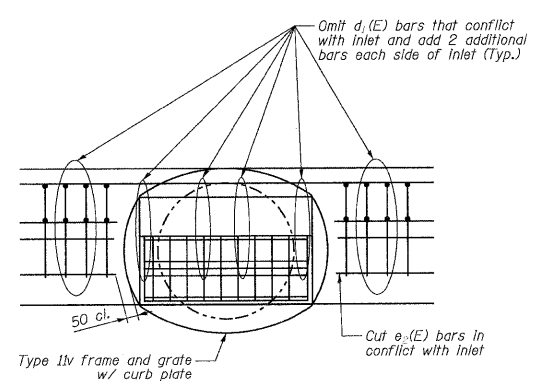
BAR d2(E)



SECTION A-A



SECTION B-B



SECTION C-C
Reinforcement modifications at inlets

BAR LIST			
Bar	Size	Length	Shape
d1(E)	#16	1.166m	U
d2(E)	#16	2.213m	U
d3(E)	#19	.750	U
d4(E)	#16	varies	U
e1(E)	#22	4.4m	U
e2(E)	#16	4.4m	U

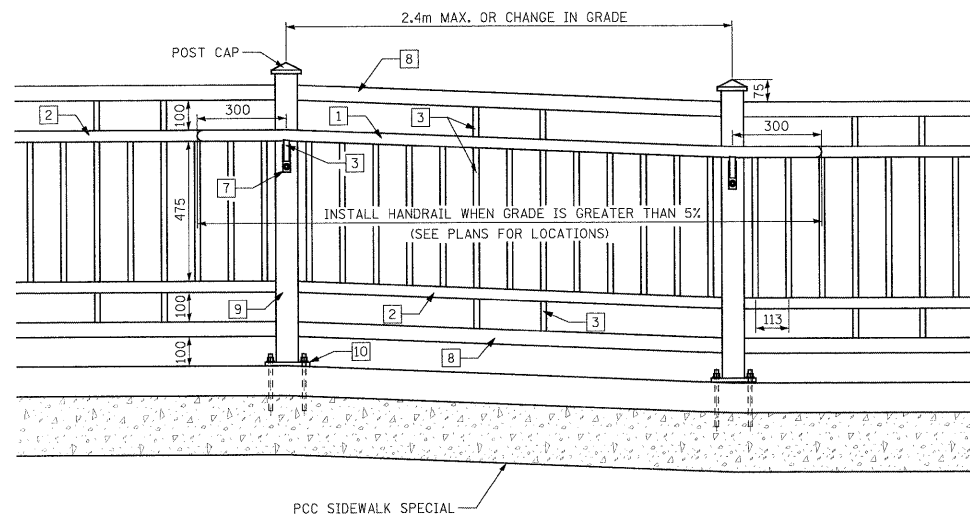
*Length of bar d1(E) varies as shown on the plan.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		DOWNTOWN DETAILS CONCRETE BARRIER WALL
DATE		DRAWN BY
		CHECKED BY

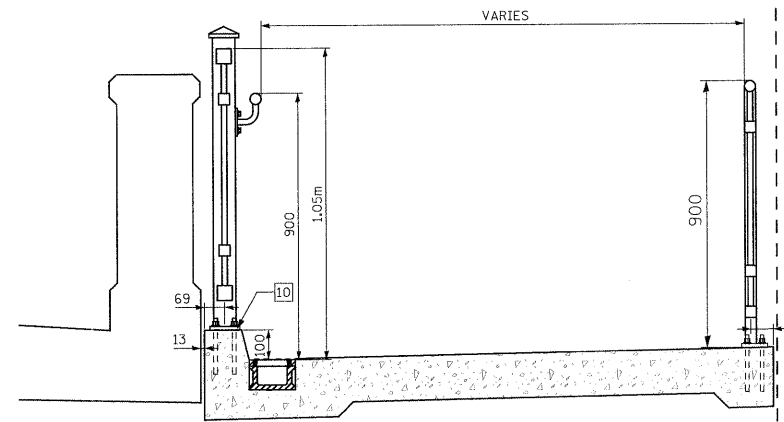
FILE: 679-688DET_SHT_downtown_details.dgn
PLOTTED: 8/11/2011

HMG JOB NO. 5182

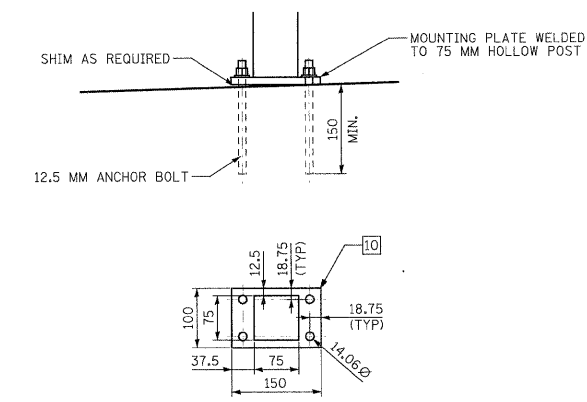
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(SCS,13C,108,109)R	KENDALL	931	688
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



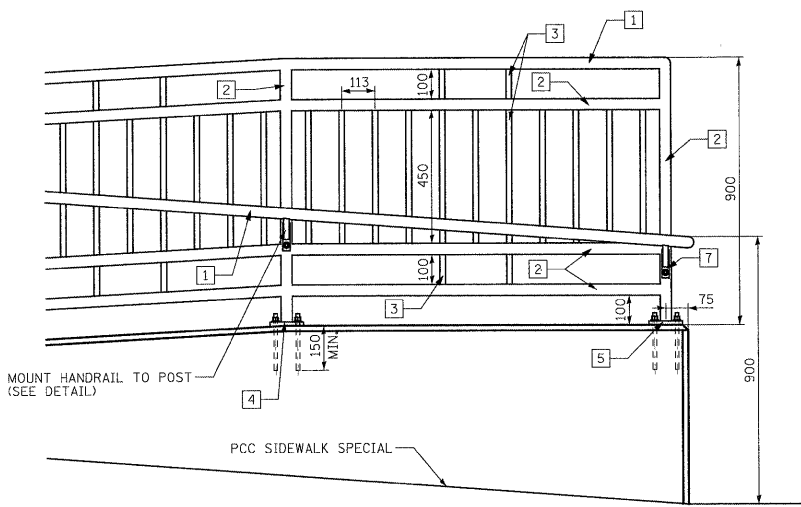
ELEVATION
DECORATIVE FENCE



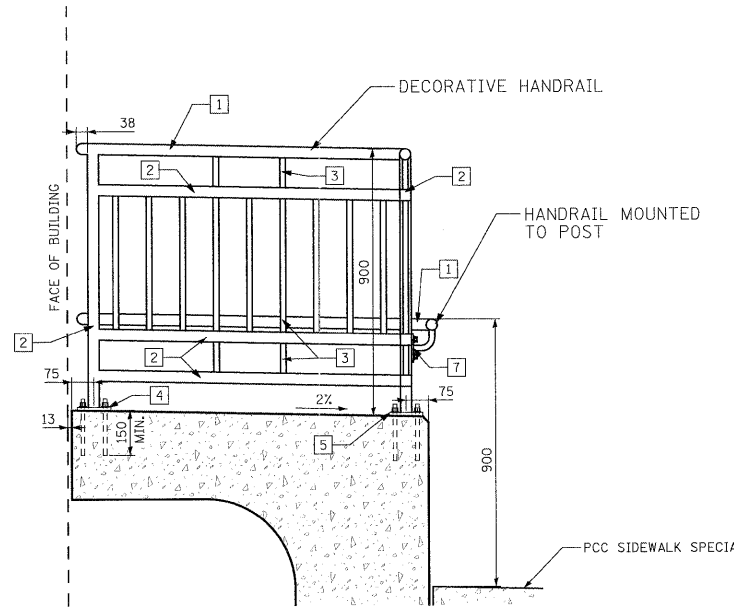
SECTION
DECORATIVE FENCE AND HANDRAIL



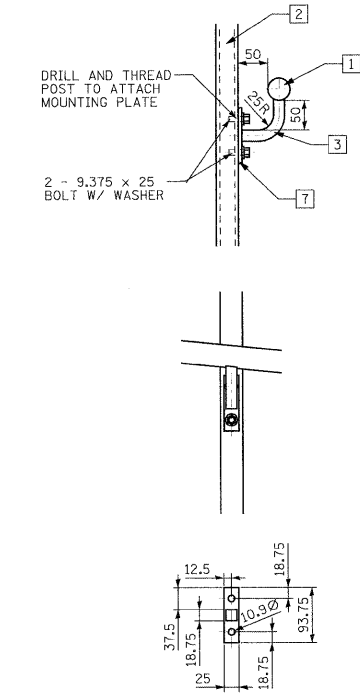
FENCE POST MOUNTING DETAIL



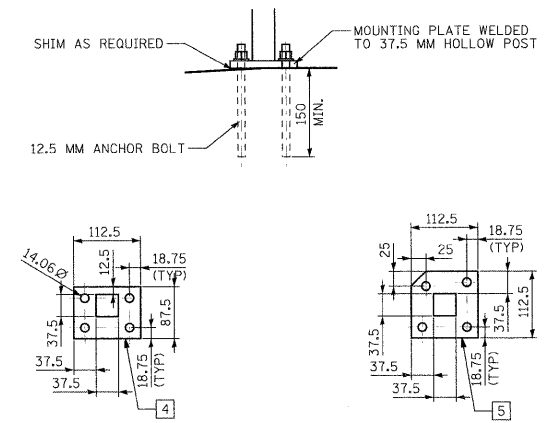
FRONT ELEVATION
DECORATIVE HANDRAIL



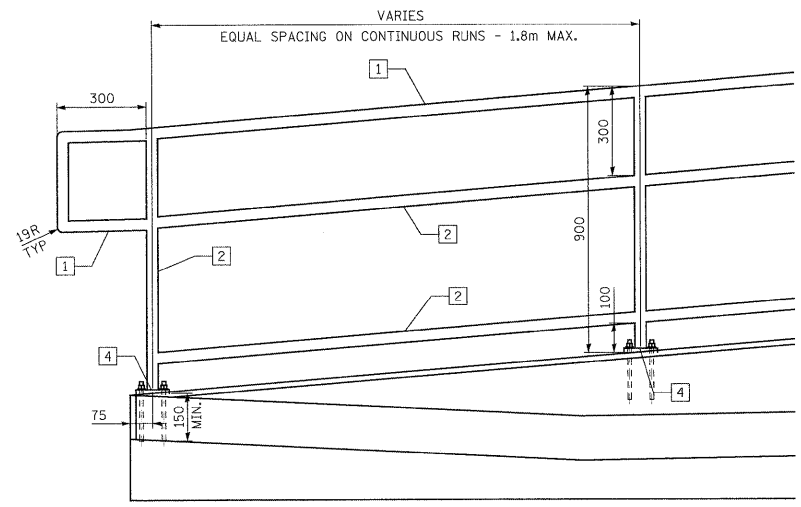
SIDE ELEVATION
DECORATIVE HANDRAIL



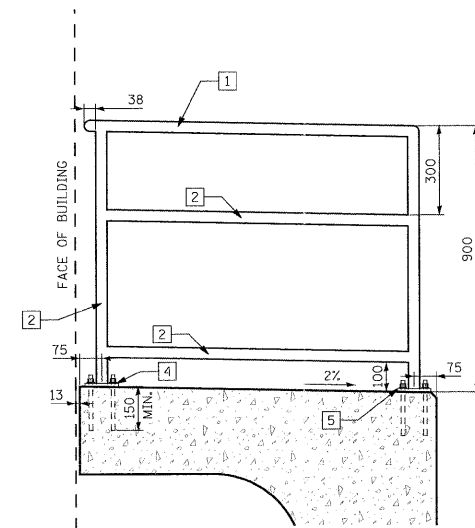
HANDRAIL BRACKET DETAILS



HANDRAIL POST MOUNTING DETAILS



PIPE HANDRAIL



SIDE ELEVATION
PIPE HANDRAIL

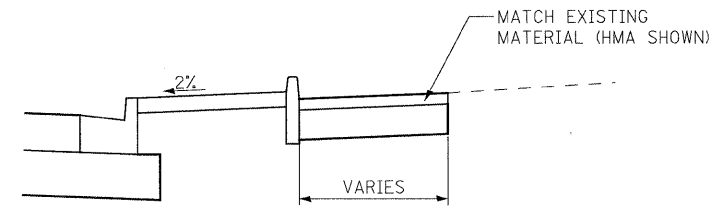
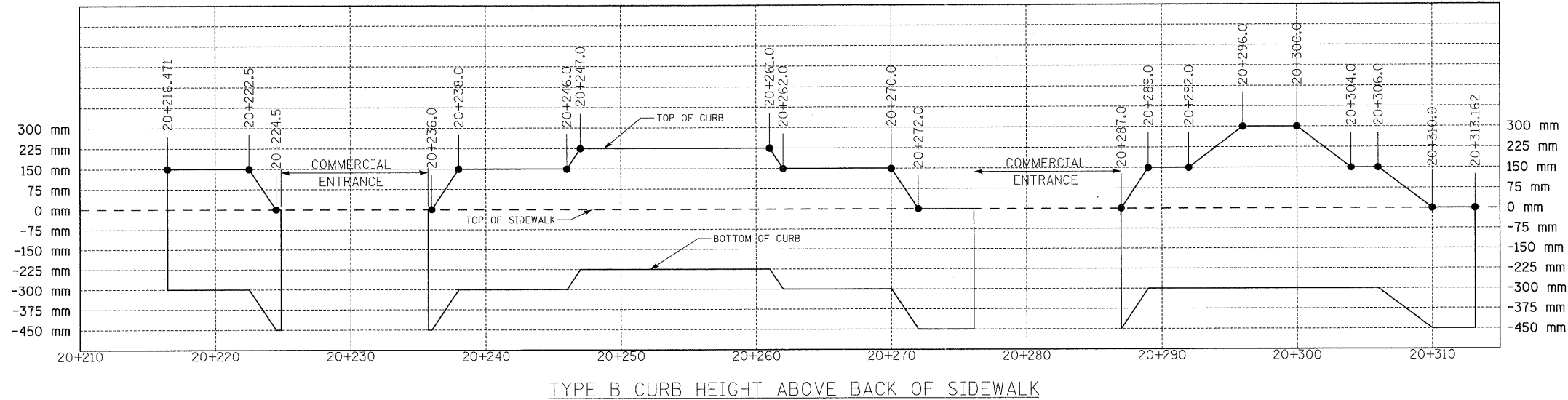
- 1 37.5 MM HOLLOW ROUND
- 2 37.5 MM HOLLOW SQUARE
- 3 18.75 x 18.75 SOLID SQUARE
- 4 112.5 x 87.5 x 12.5 MOUNTING PLATE
- 5 112.5 x 112.5 x 12.5 MOUNTING PLATE
- 7 93.75 x 25 x 6.25 MOUNTING PLATE
- 8 50 MM HOLLOW SQUARE
- 9 75 MM HOLLOW SQUARE
- 10 150 x 100 x 12.5 MOUNTING PLATE

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<p>DECORATIVE FENCE AND HANDRAIL DETAILS</p> <p>DRAWN BY CHECKED BY</p> <p>DATE</p>

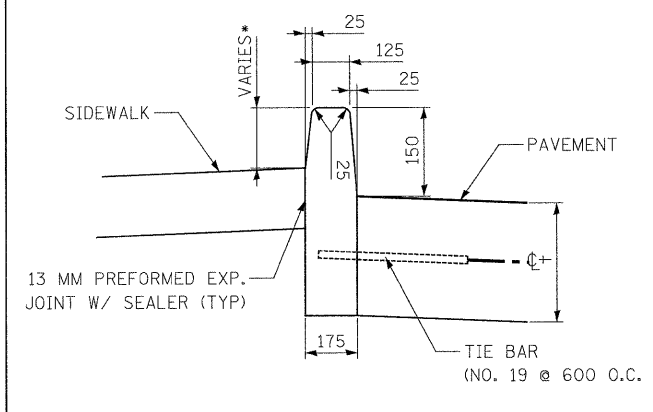
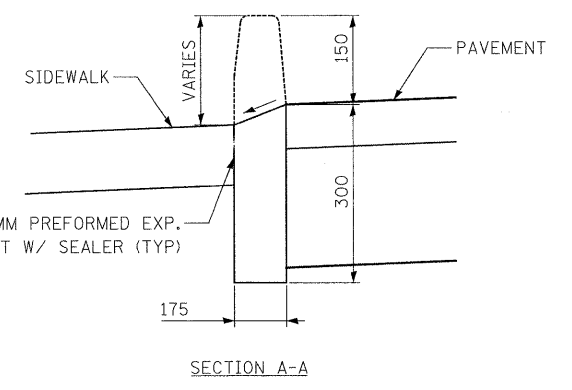
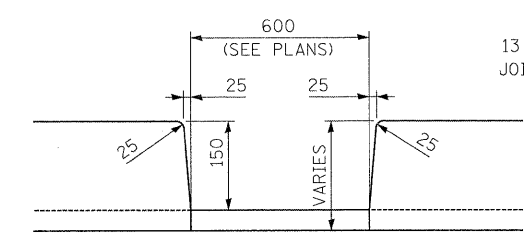
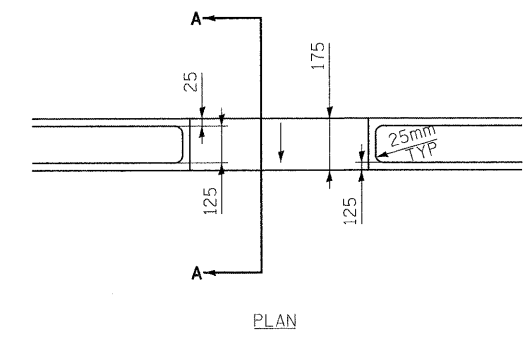
FILE: 679-688DET_SHT_downtown_details.dgn
PLOTTED: 8/11/2011

HMG JOB NO. 5122

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(6CS,13C,108,109)R	KENDALL	931	689
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

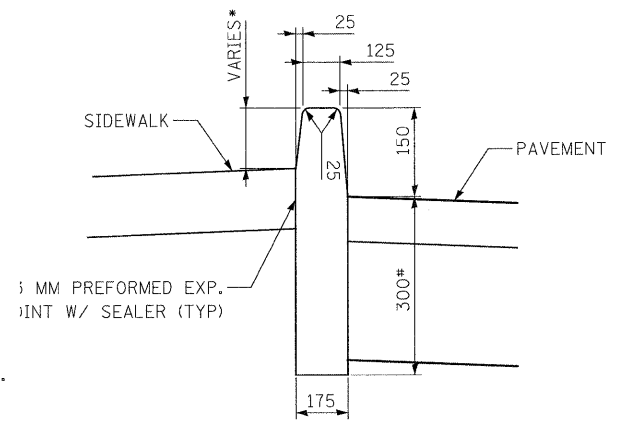


TYPE B CURB (SPECIAL)
STATION 20+216.471 TO 20+313.162



TYPE B CURB (SPECIAL)
ADJACENT TO P.C.C. PAVEMENT

* SEE PROFILE FOR CURB HEIGHT



TYPE B CURB (SPECIAL)
ADJACENT TO HOT-MIX ASPHALT PAVEMENT

* FOR EXPOSED HEIGHT OVER 225mm
INCREASE BURIED LENGTH TO 450mm
* SEE PROFILE FOR CURB HEIGHT

TYPE B CURB (SPECIAL)
CUT-OUT FOR DRAINAGE
STA. 20+246 RT. STA. 20+292 RT.
STA. 20+303 RT.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

TYPE B CURB DETAILS

DATE _____

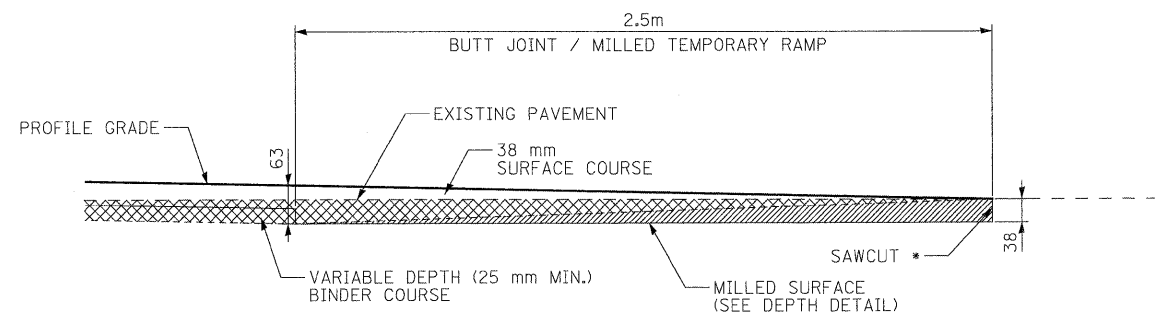
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CHECKED BY _____

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PLOTTED: 8/11/2011

HMG JOB NO. 5122

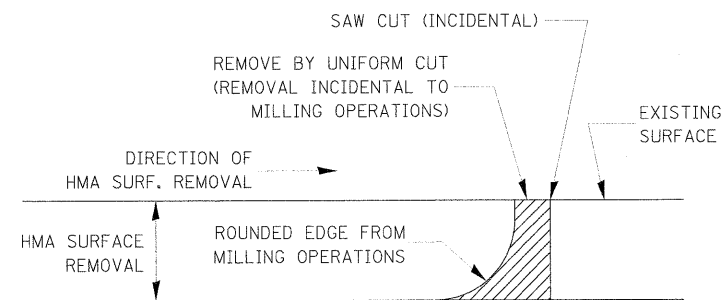
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(5CS,13C,108,109)R	KENDALL	931	690
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



* INCLUDED IN COST OF BUTT JOINT

- PAVEMENT REMOVED AS HMA SURFACE REMOVAL - VARIABLE DEPTH
- PAVEMENT REMOVED AS HMA SURFACE REMOVAL - BUTT JOINT

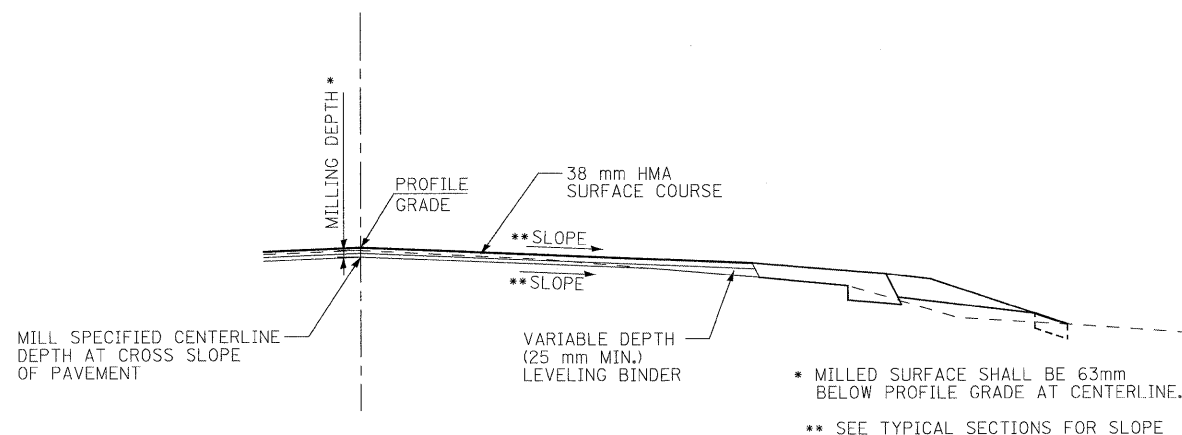
BUTT JOINT / MILLED TEMPORARY RAMP DETAIL



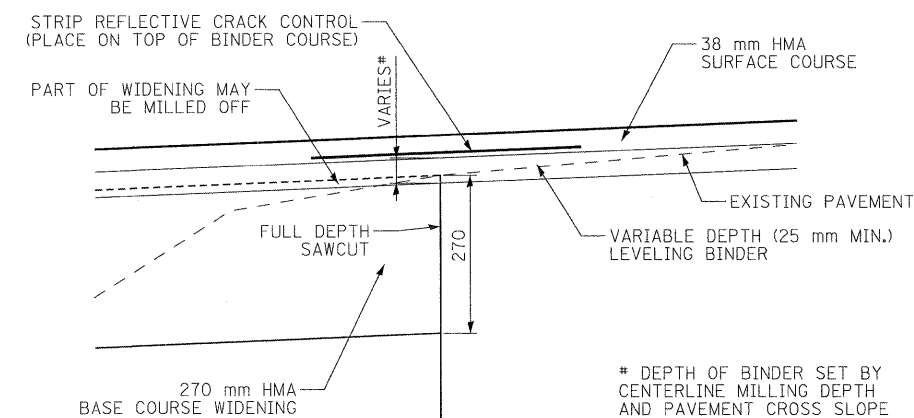
NOTE:

WHEN MILLING OPERATIONS PRODUCE A ROUNDED EDGE, THEN A SAW CUT SHALL BE USED TO MANUFACTURE A PERPENDICULAR EDGE AS SHOWN IN THE DETAIL. THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE USE OF THIS DETAIL.

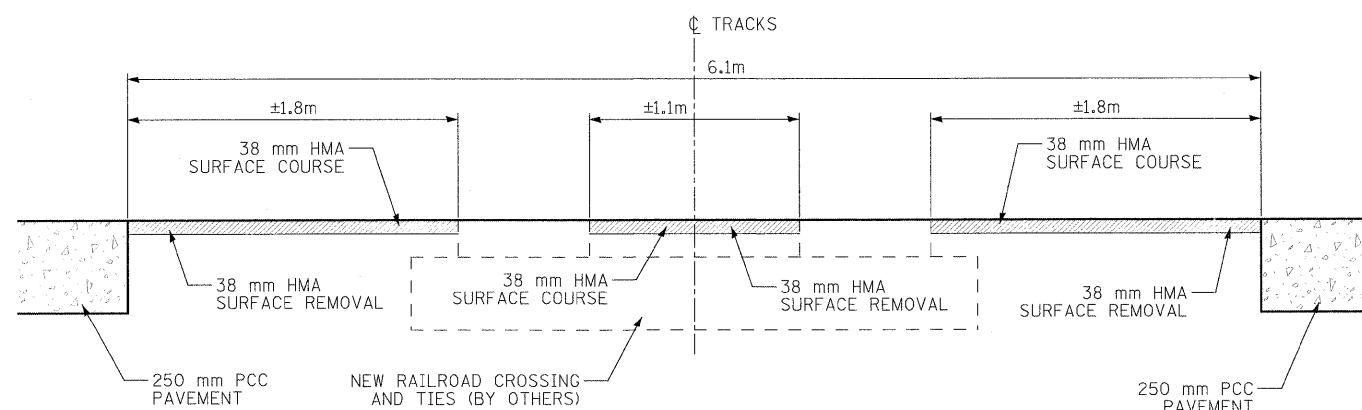
HMA DETAIL AT BUTT JOINTS



HMA SURFACE REMOVAL AND OVERLAY DETAIL



HMA SURFACE REMOVAL AND OVERLAY DETAIL AT BASE COURSE WIDENING



HMA SURFACE REMOVAL AND OVERLAY AT RAILROAD CROSSING

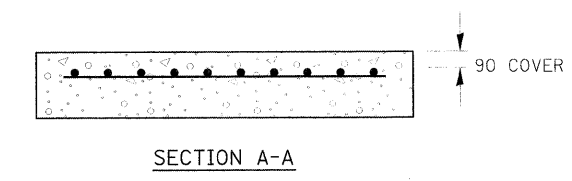
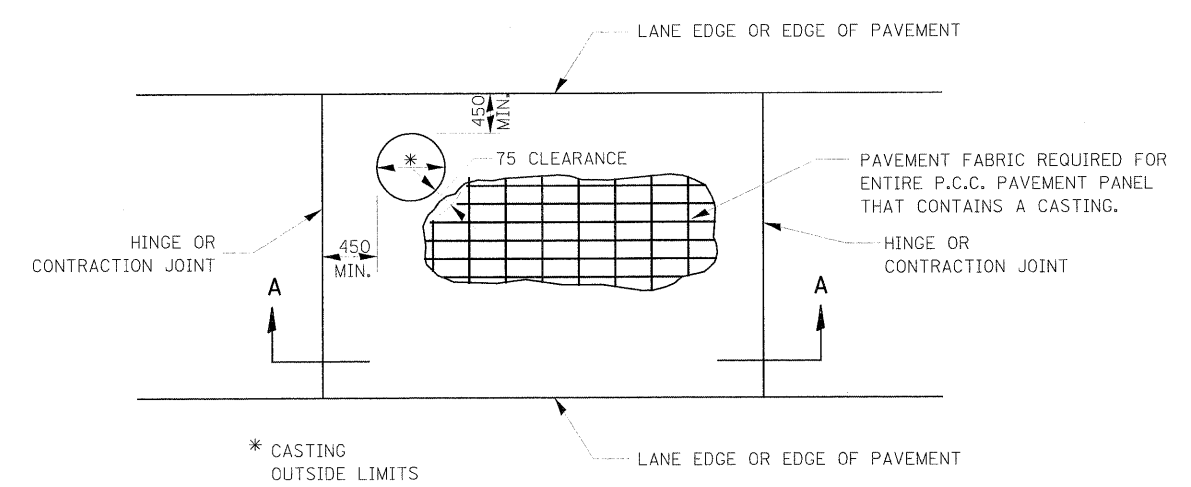
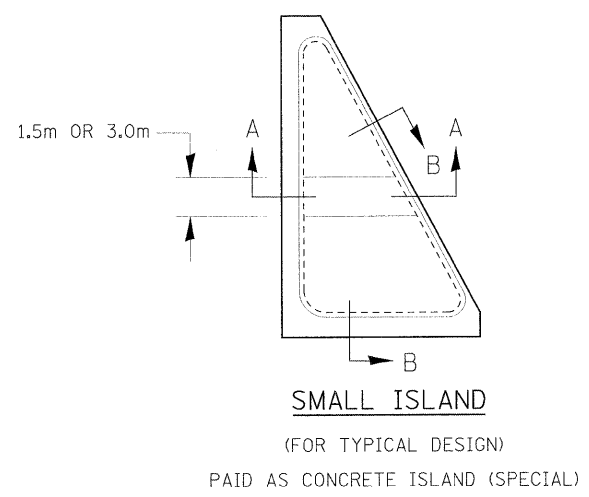
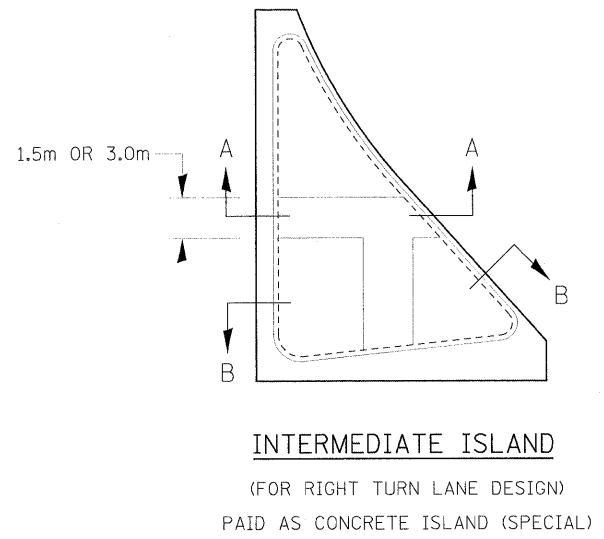
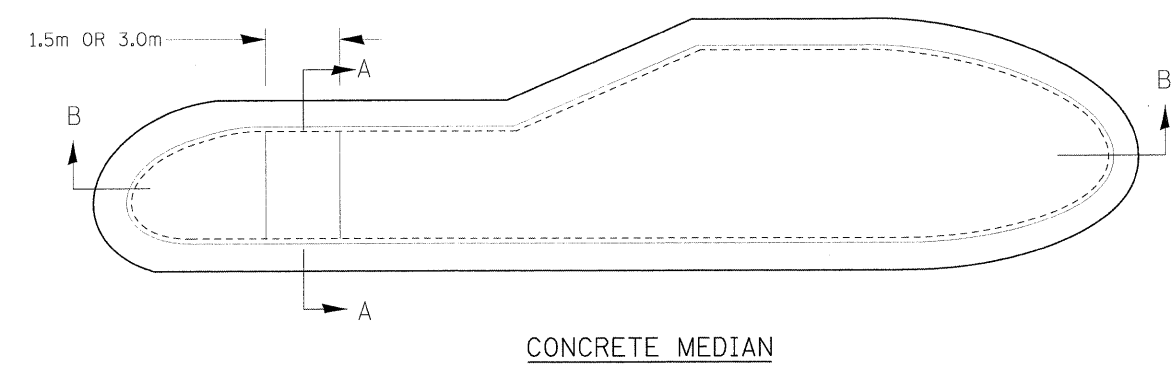
SURFACE REMOVAL AT RAILROAD CROSSING SHALL BE PAID FOR AS HMA SURFACE REMOVAL - BUTT JOINT

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		PAVEMENT DETAILS DRAWN BY _____ CHECKED BY _____ DATE _____

FILE: 690-691DET_SHT-pavement.dgn
PLOTTED: 8/11/2011

HMG JOB NO. 5122

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(5CS,13C,108,109)R	KENDALL	931	691
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



GENERAL NOTES

THE CASTING SHALL BE SET TO GRADE, ANCHORED, AND INCORPORATED INTO THE P.C.C. PAVEMENT CONSTRUCTION. SEPARATE PAVEMENT BLOCKOUTS WILL NOT BE ALLOWED.

SEE STD. 420701 FOR ADDITIONAL PAVEMENT FABRIC DETAILS.

PAVEMENT FABRIC WILL BE PAID FOR SEPARATELY. THE QUANTITY OF PAVEMENT FABRIC WILL BE THE COMPUTED SURFACE AREA OF THE P.C.C. PAVEMENT PANEL IN WHICH THE PAVEMENT FABRIC IS INSTALLED. NO DEDUCTION WILL BE MADE FOR THE CASTING AREA.

CASTINGS IN P.C.C. PAVEMENT

GENERAL NOTES

ALL DIMENSIONS ARE MILLIMETERS UNLESS OTHERWISE NOTED.

SEE STANDARD 606301 AND PLAN SHEETS FOR STATION, OFFSETS, RADII, DIMENSIONS, AND DETAILS NOT SHOWN.

THE SIDEWALK SHOULD DRAIN TO THE LOW SIDE OF THE ISLAND. IF NECESSARY THE SIDEWALK SHALL BE SLOPED TO DRAIN AT A MAXIMUM 2% GRADE.

SEE THE PLAN GENERAL NOTES FOR THE TYPE OF CURB AND CUTTER TO BE USED ON ISLANDS.

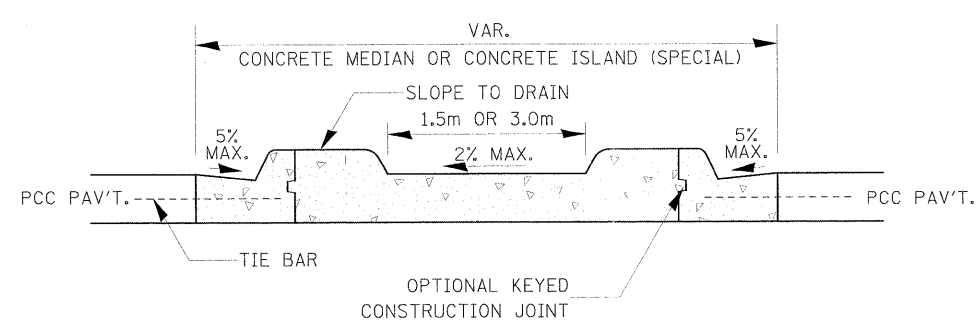
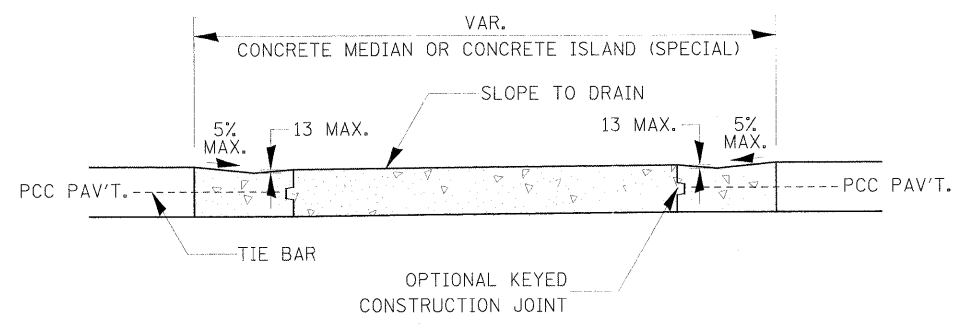
THE SIDEWALK SHOULD NOT BE CLOSER THAN 900 FROM THE CORNER OF THE ISLAND.

300 x 300 SIGN BLOCKOUTS SHALL BE PROVIDED IN ISLANDS AND MEDIAN AS REQUIRED.

KEYED LONGITUDINAL CONSTRUCTION JOINTS SHALL BE CONSTRUCTED WITHOUT TIE BARS.

LOCATIONS, LAYOUTS, AND WIDTHS OF THE FLUSH SIDEWALK AREA, SHALL BE DETERMINED BY THE DESIGNER AND SHOWN ON THE PLANS.

THE SOLID CONCRETE MEDIANS AND INTERMEDIATE AND SMALL ISLANDS WILL BE MEASURED FOR PAYMENT FROM E.O.P. TO E.O.P., AND WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQ. YD. FOR CONCRETE MEDIAN OF THE TYPE SPECIFIED OR CONCRETE ISLAND (SPECIAL).



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT DETAILS

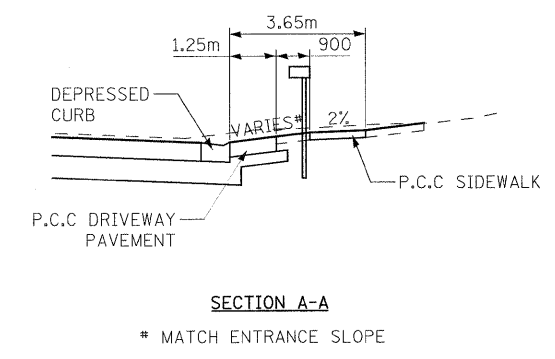
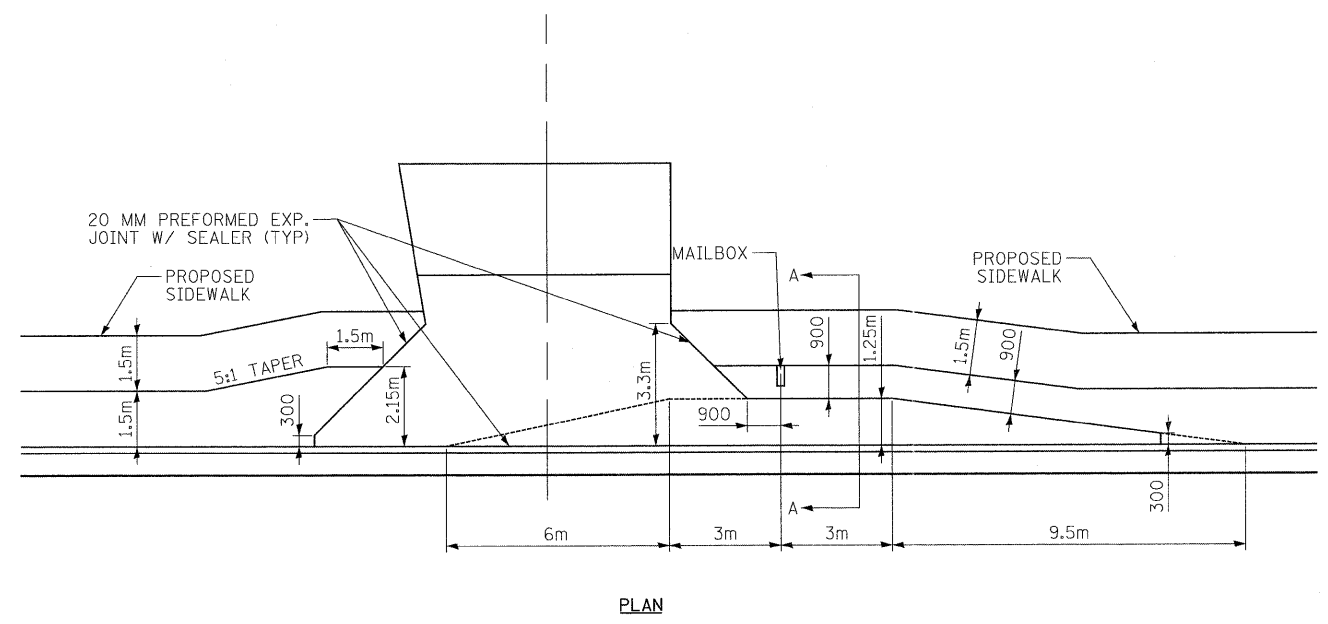
DATE _____ DRAWN BY _____

CHECKED BY _____

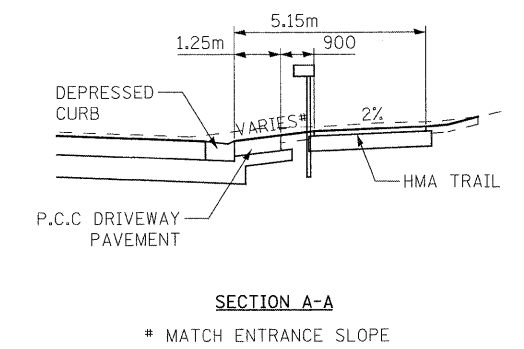
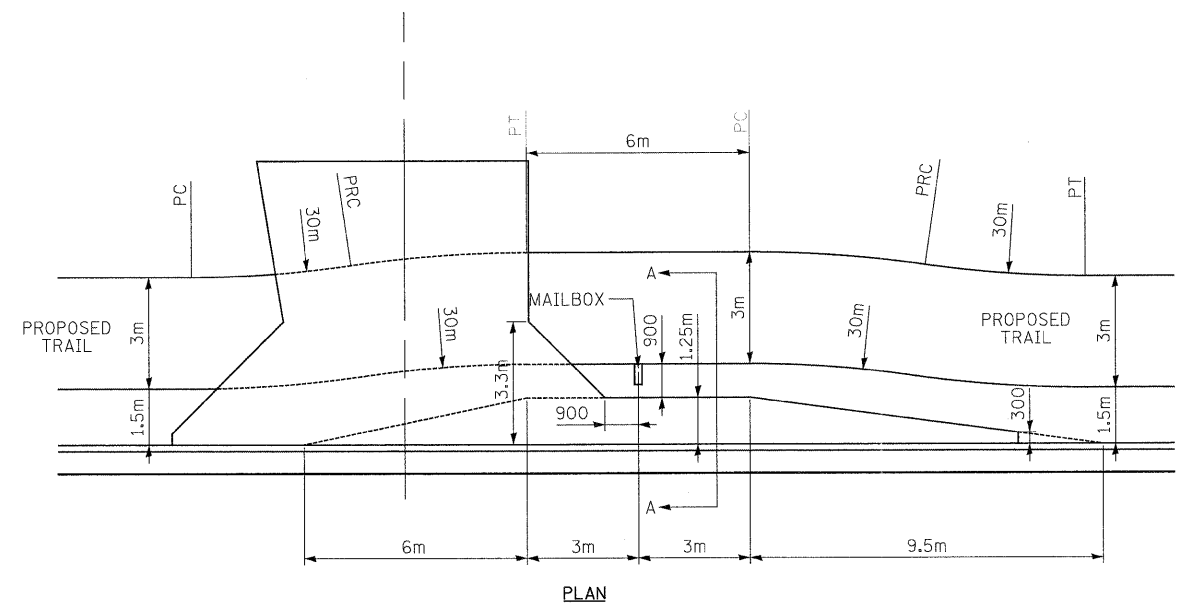
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HMG JOB NO. 5122

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(6CS,13C,108,109)R	KENDALL	931	692
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



MAILBOX TURNOUT
W/ SIDEWALK



MAILBOX TURNOUT
W/ TRAIL

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<p>MAILBOX TURNOUT DETAILS</p> <p>DRAWN BY CHECKED BY</p> <p>DATE</p>

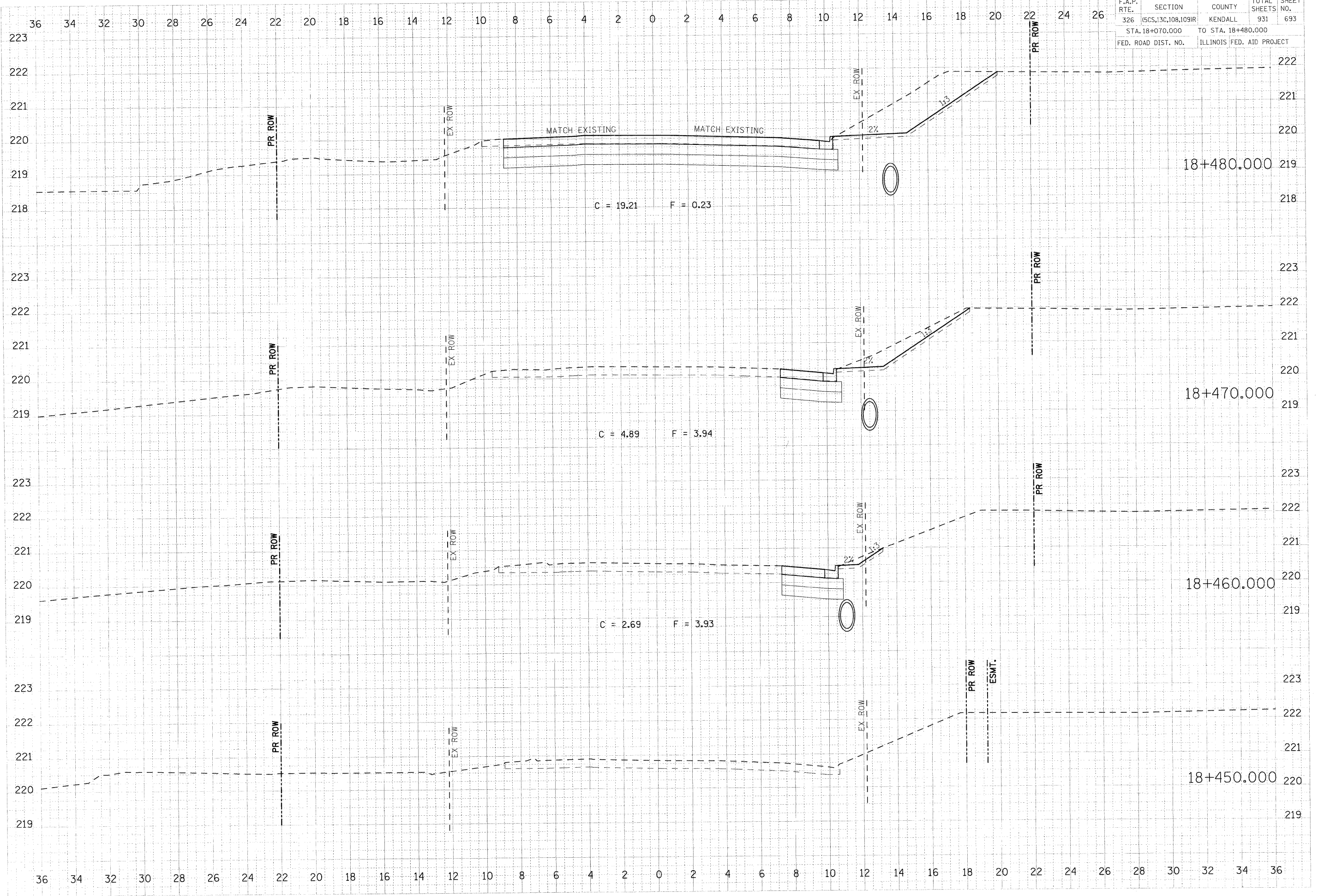
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PLOTTED: 8/11/2011

HMG JOB NO. 5122

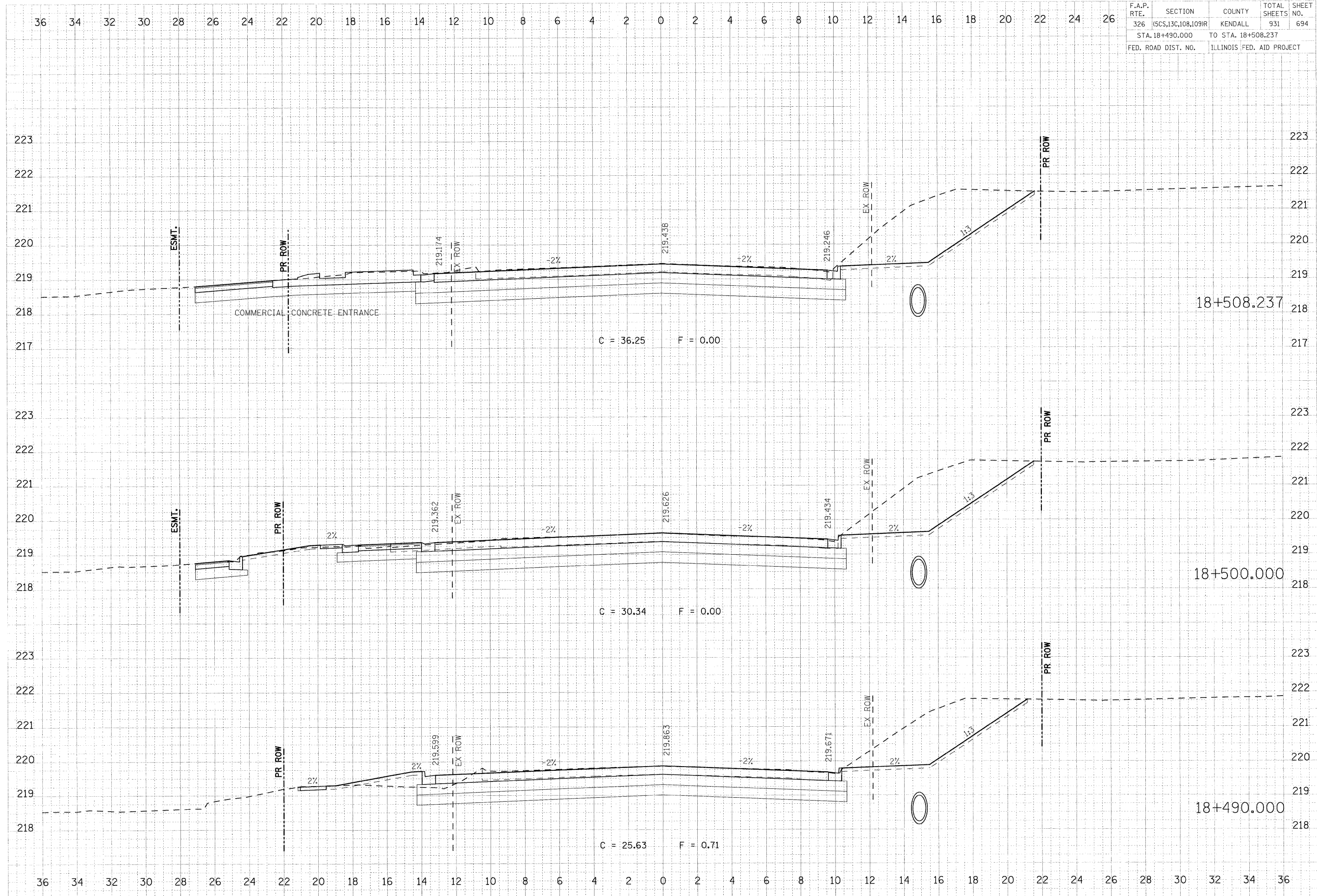
DATE	
BY	
REVISION	
DATE	
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REVISION	
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BY	
REVISION	

DATE	
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DATE	
BY	
REVISION	
DATE	
BY	
REVISION	

PLOT DATE = 07/26/2011
 FILE NAME = 65922XIS_ehxf_47a.dgn
 PLOT SCALE = 8.1000 in / MM.
 USER NAME = JUSERBESCL



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(5CS,13C,108,109)R	KENDALL	931	694
STA. 18+490.000		TO STA. 18+508.237		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

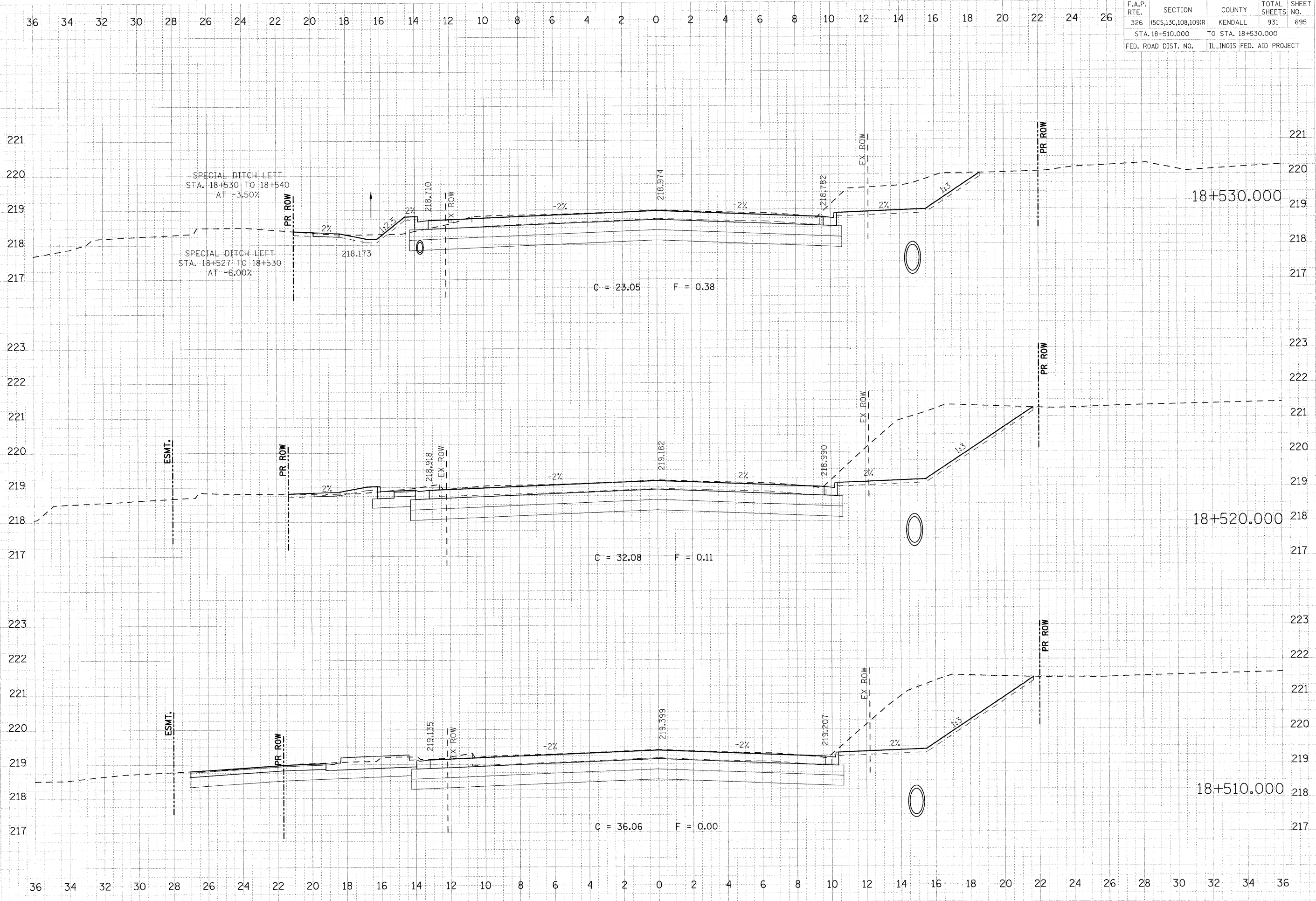


FINAL	DATE
SURVEY	
NOTES	
NO. 1	
NO. 2	
NO. 3	
NO. 4	
NO. 5	
NO. 6	
NO. 7	
NO. 8	
NO. 9	
NO. 10	
NO. 11	
NO. 12	
NO. 13	
NO. 14	
NO. 15	
NO. 16	
NO. 17	
NO. 18	
NO. 19	
NO. 20	
NO. 21	
NO. 22	
NO. 23	
NO. 24	
NO. 25	
NO. 26	
NO. 27	
NO. 28	
NO. 29	
NO. 30	
NO. 31	
NO. 32	
NO. 33	
NO. 34	
NO. 35	
NO. 36	

ORIGINAL	DATE
SURVEY	
NOTES	
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NO. 2	
NO. 3	
NO. 4	
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NO. 8	
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(5CS,13C,108,109)R	KENDALL	931	695
STA. 18+510.000		TO STA. 18+530.000		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



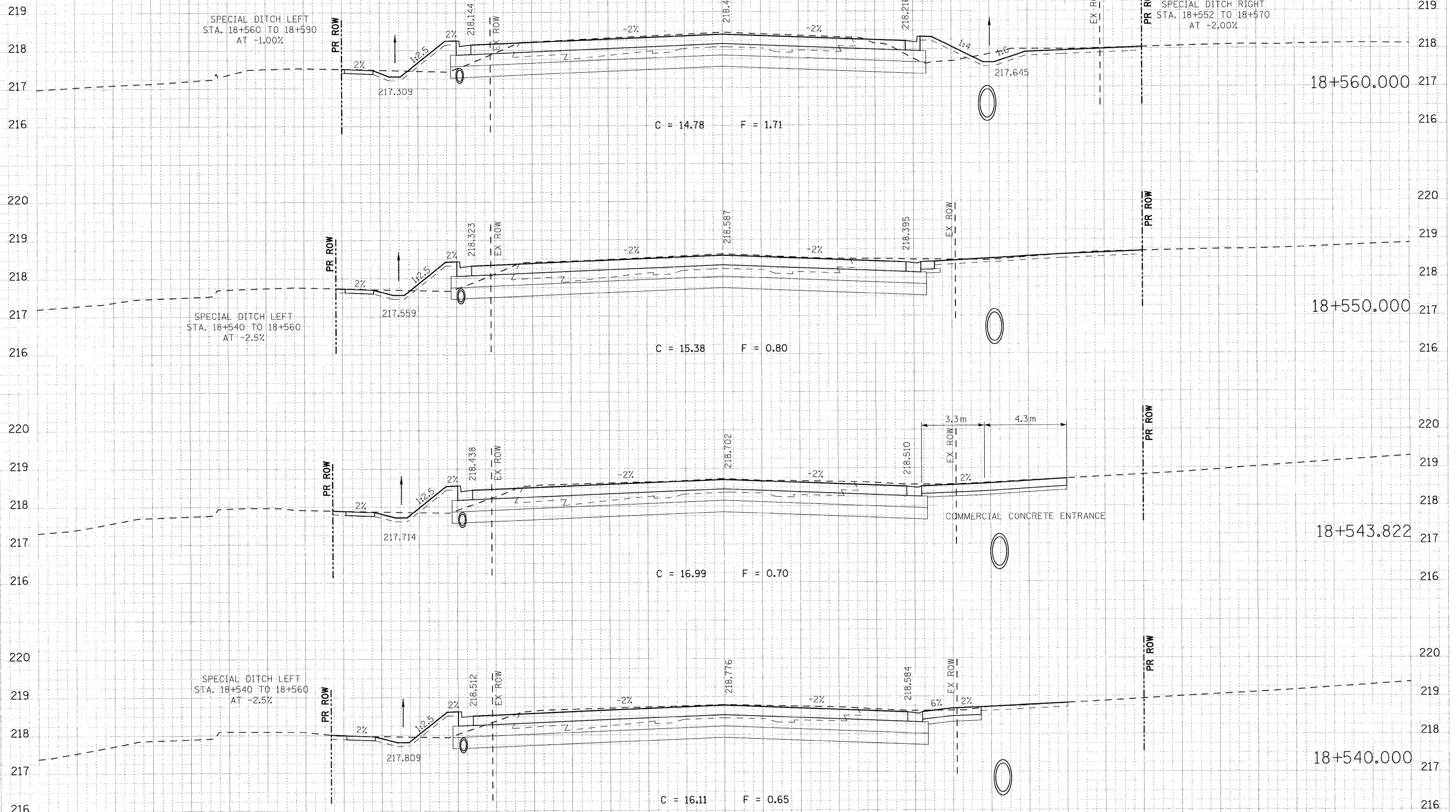
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 SURVEY PLATES
 NOTE BOOK TEMPLATE
 AREAS CHECKED
 AREAS CHECKED

PROJNO SURVEY BY DATE
 SURVEY PLATES
 NOTE BOOK TEMPLATE
 AREAS CHECKED
 AREAS CHECKED

PLOT DATE = 07/26/2011
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(SCS,13C,108,109)R	KENDALL	931	696
STA. 18+540.000 TO STA. 18+560.000				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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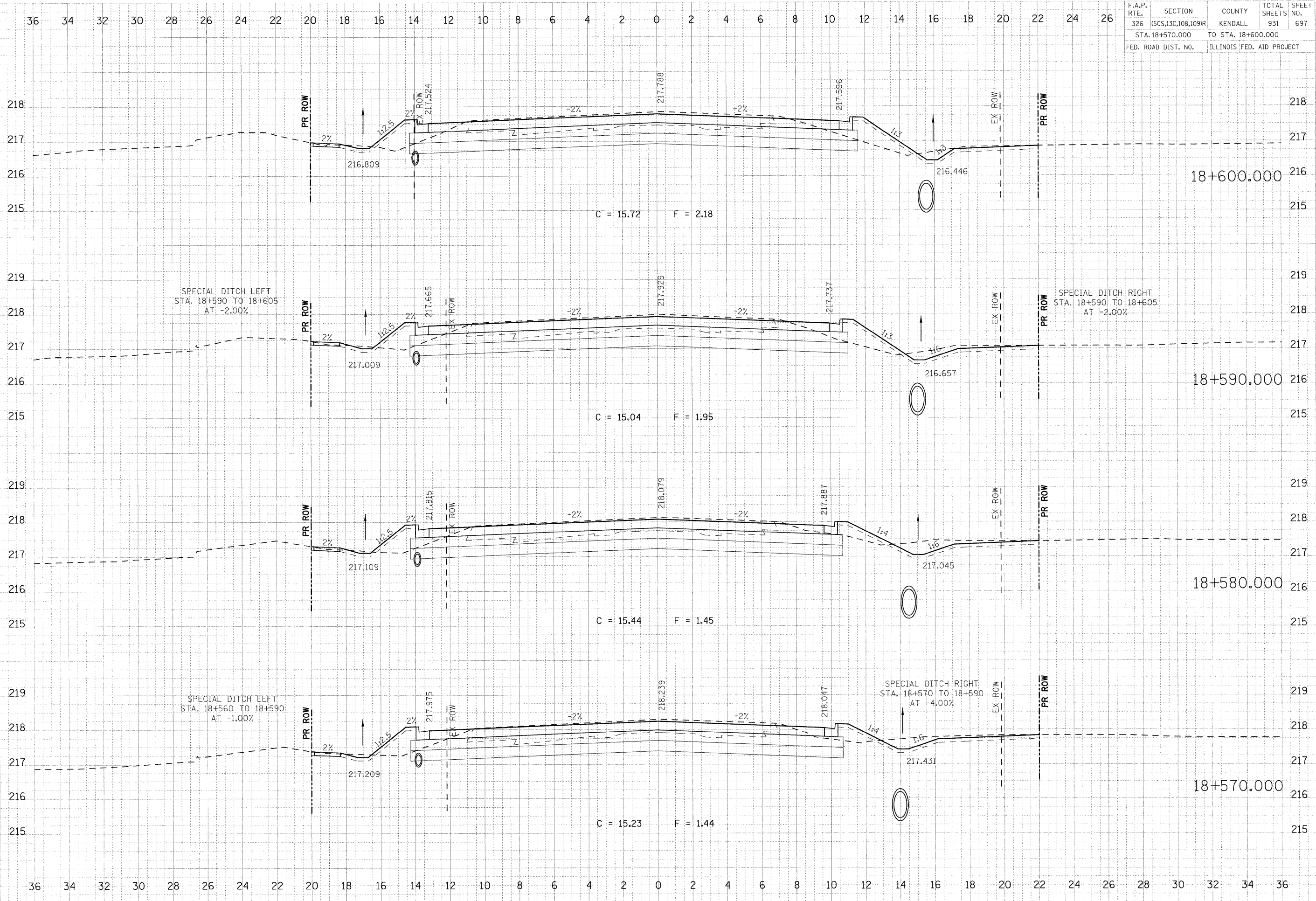
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FINAL SURVEYED	DATE
NOTE BOOK	
AREAS	
AREAS CHECKED	

ORIGINAL SURVEYED	DATE
NOTE BOOK	
AREAS	
AREAS CHECKED	

PLOT DATE = 07/26/2011
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	5CS,13C,108,109R	KENDALL	931	697
STA. 18+570.000		TO STA. 18+600.000		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

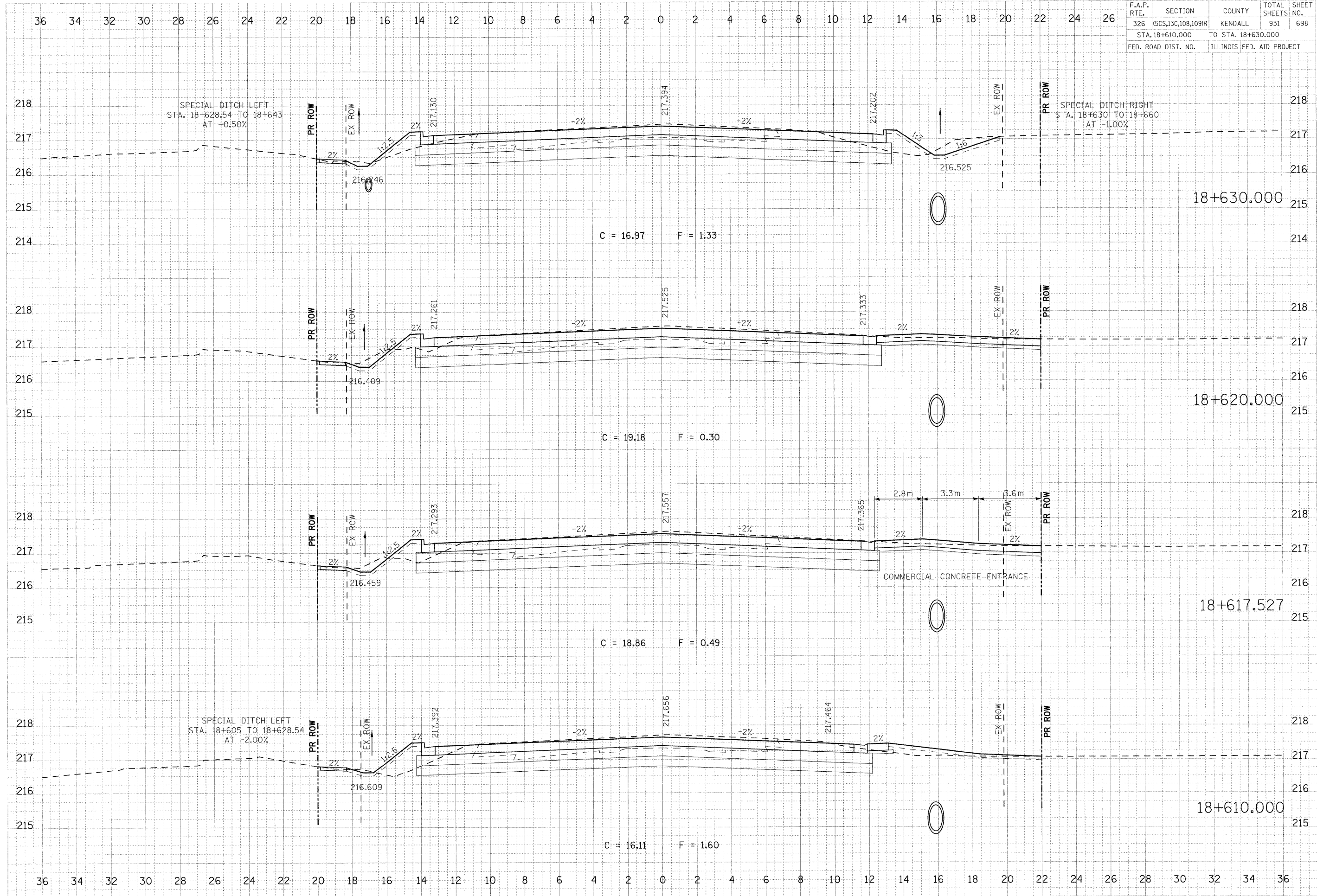


FINAL SURVEY DATE
 SURVEYED BY
 CHECKED BY
 DATE

FINAL SURVEY DATE
 SURVEYED BY
 CHECKED BY
 DATE

PLOT DATE = 07/26/2001
 PLOT SCALE = 0.1000
 USER NAME = JUSERESCR

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(SCS,13C,108,109)R	KENDALL	931	698
STA. 18+610.000		TO STA. 18+630.000		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

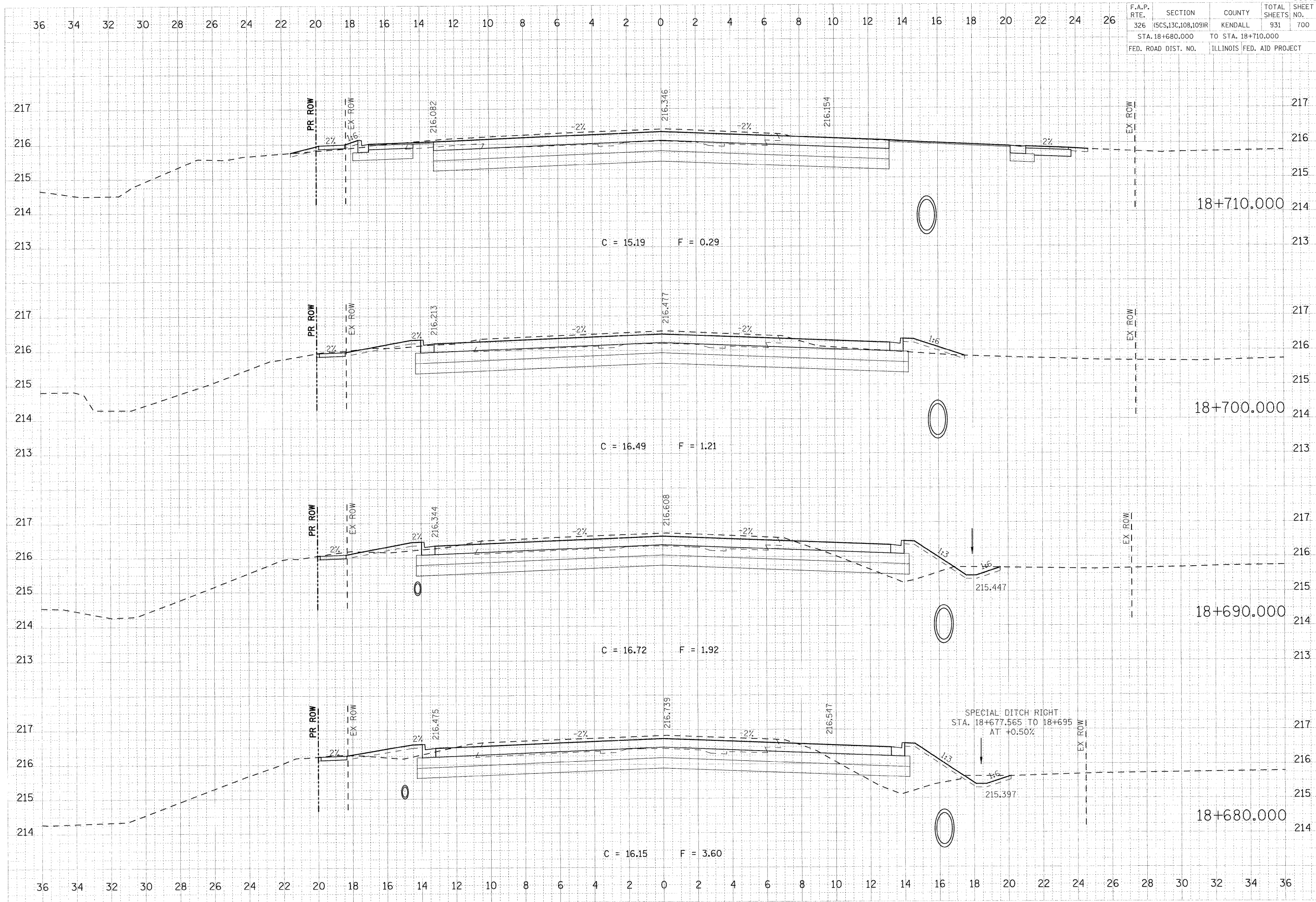


DATE	BY	REVISION

DATE	BY	REVISION

PLOT DATE = 07/26/2011
 PLOT SCALE = 0.1000 MM
 USER NAME = JUSERDESCR

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(SCS,13C,108,109)R	KENDALL	931	700
STA. 18+680.000		TO STA. 18+710.000		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



DATE: _____ BY: _____
 SURVEY: _____
 PLOTTED: _____
 NOTE BOOK: _____
 AREAS: _____
 CHECKED: _____

DATE: _____ BY: _____
 SURVEY: _____
 PLOTTED: _____
 NOTE BOOK: _____
 AREAS: _____
 CHECKED: _____

PLOT DATE = 07/26/2001
 PLOT SCALE = 8.0000
 USER NAME = JUSEBUESCHL