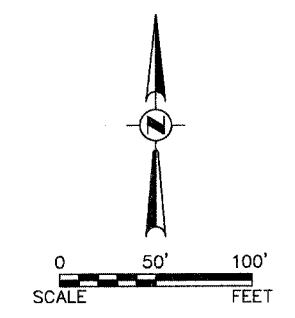
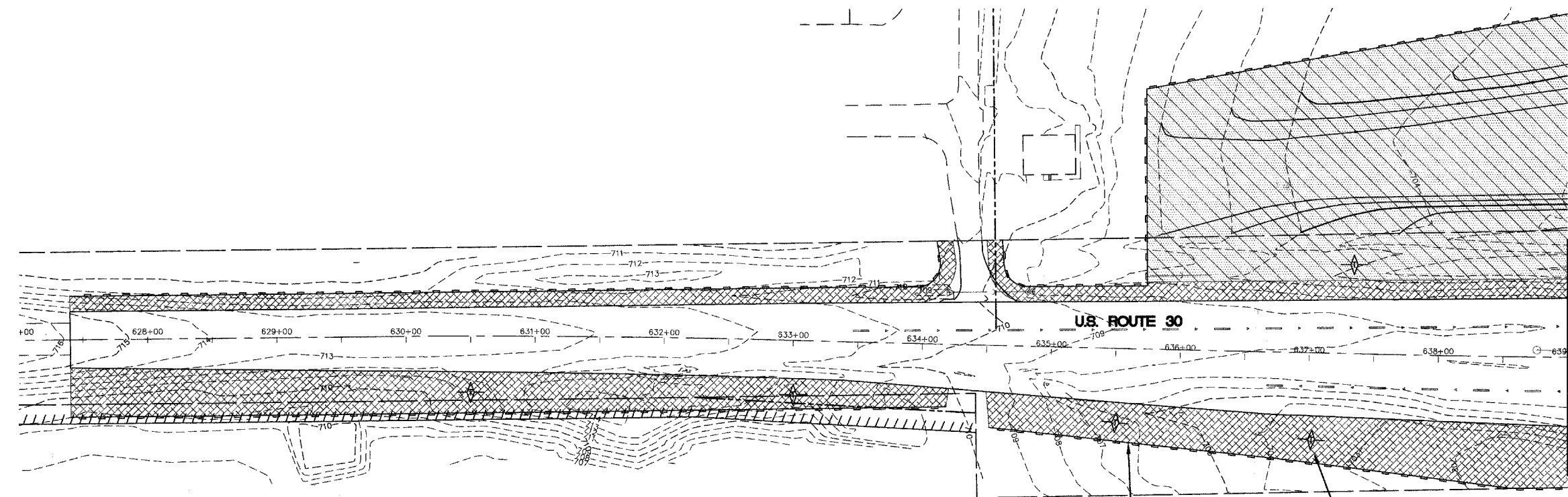


F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	06-00017-00-PV	KANE	232	101
STA. 627+00		TO STA. 650+00		
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT		



PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNMENT CHECKED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
NOTE BOOK NO.	CADD FILE NAME	

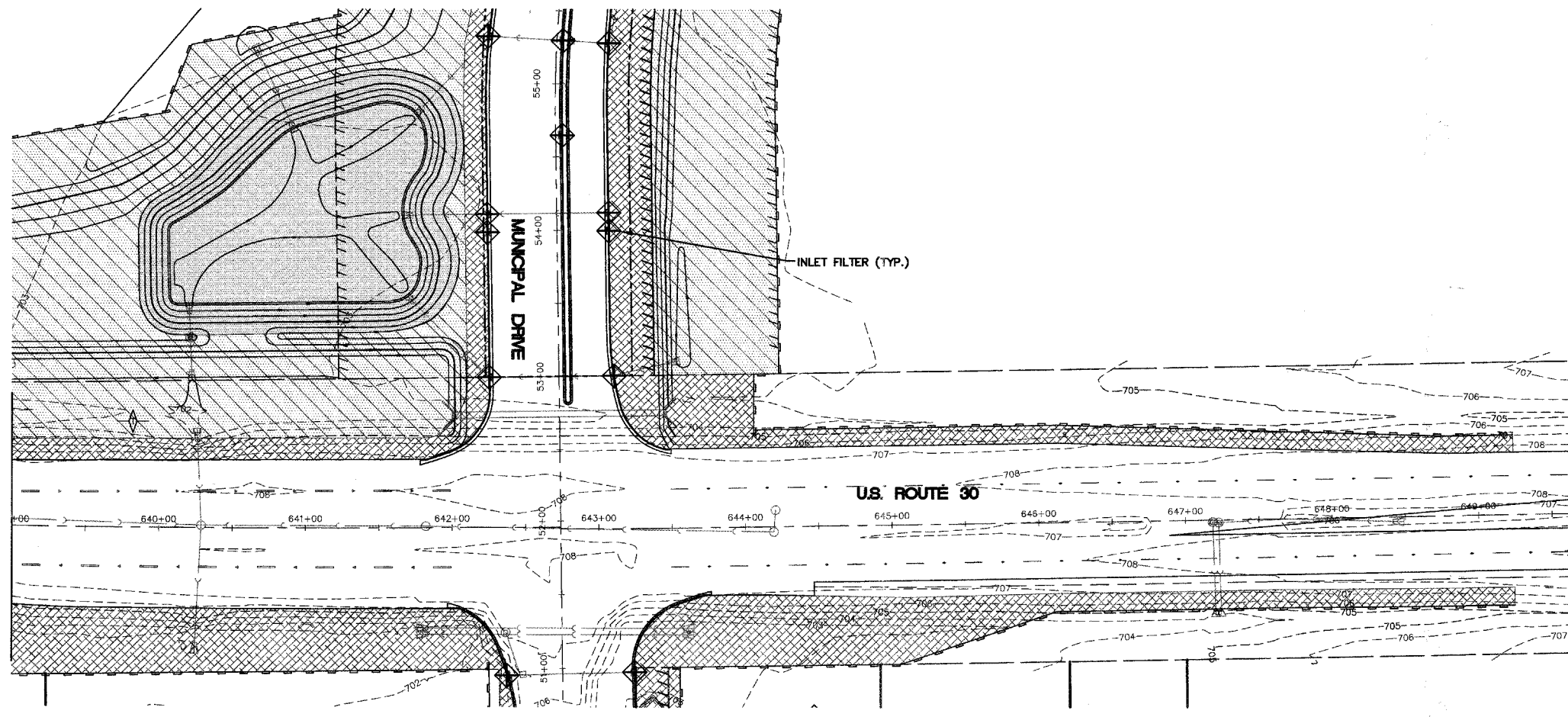
PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
NOTE BOOK NO.	CADD FILE NAME	



MATCHLINE STA. 639+00

- CLASS 1A SEEDING AND MULCH METHOD 3
- CLASS 2 SEEDING AND MULCH METHOD 3
- CLASS 4B SEEDING
- PERIMETER EROSION BARRIER
- NITROGEN FERTILIZER NUTRIENT (90 LBS/AC)
- POTASSIUM FERTILIZER NUTRIENT (90 LBS/AC)
- PHOSPHORUS FERTILIZER NUTRIENT (90 LBS/AC)
- INLET FILTER
- TEMPORAY DITCH CHECK

THE THICKNESS OF THE TOPSOIL SHALL BE A MINIMUM OF 4".



MATCHLINE STA. 639+00

REVISIONS	
NAME	DATE

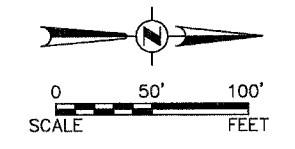
ILLINOIS DEPARTMENT OF TRANSPORTATION

**U.S. ROUTE 30 / DETENTION BASIN "C" EROSION CONTROL AND SEEDING PLAN**

SCALE: 1" = 50'  
DATE: 02/07/08

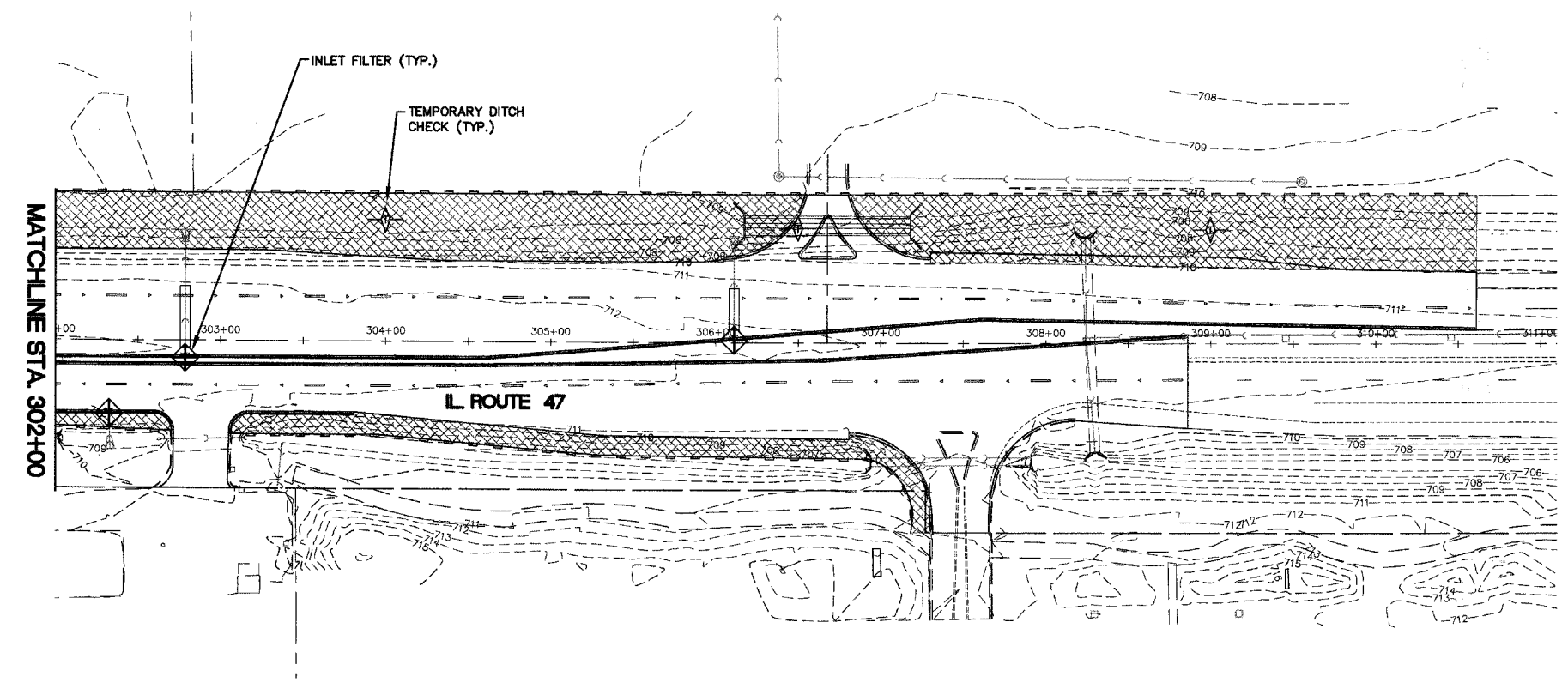
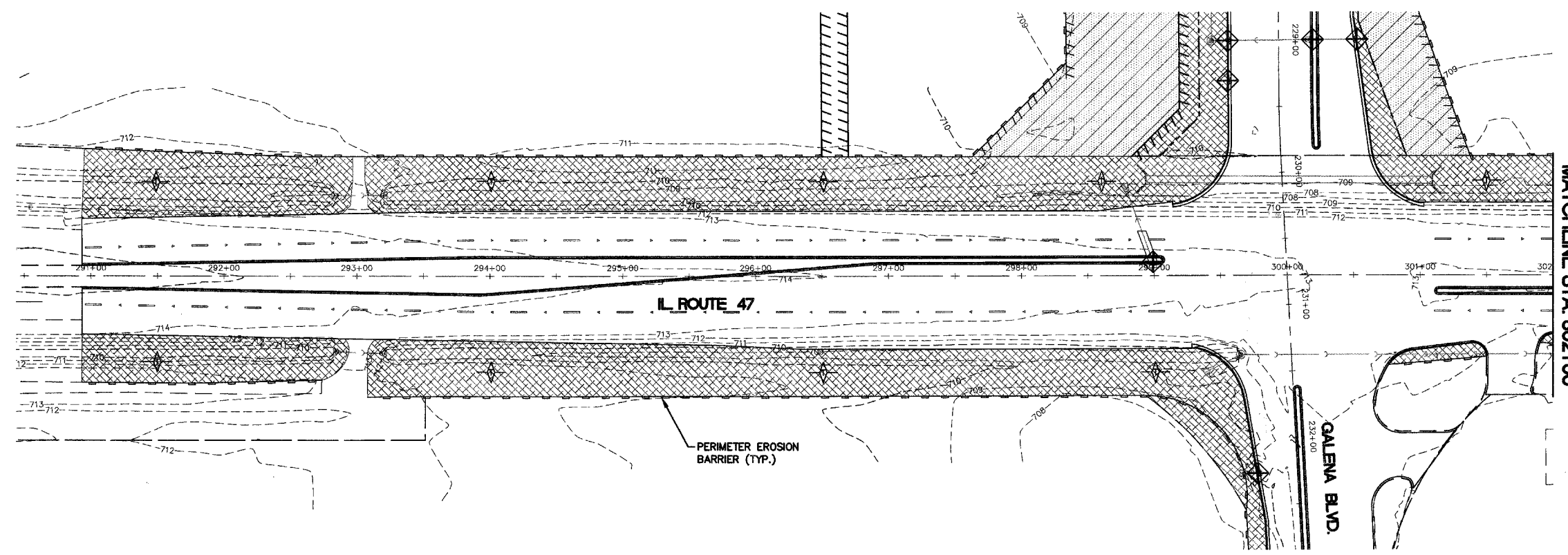
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CHECKED BY: WBR

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	06-00017-00-PV	KANE	232	102
STA. 290+50		TO STA. 311+00		
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT		



- CLASS 1A SEEDING AND MULCH METHOD 3
- CLASS 2 SEEDING AND MULCH METHOD 3
- CLASS 4B SEEDING
- PERIMETER EROSION BARRIER
- INLET FILTER
- TEMPORARY DITCH CHECK

THE THICKNESS OF THE TOPSOIL SHALL BE A MINIMUM OF 4".



PLAN	DATE
BY	
REVISIONS	
NO.	
NOTE BOOK	
ALIGNED CHECKED	
PLOTTED	
DATE	

PROFILE	DATE
BY	
REVISIONS	
NO.	
NOTE BOOK	
STRUCTURE NOTATIONS CHECKED	
PLOTTED	
DATE	

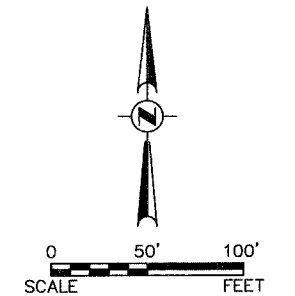
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

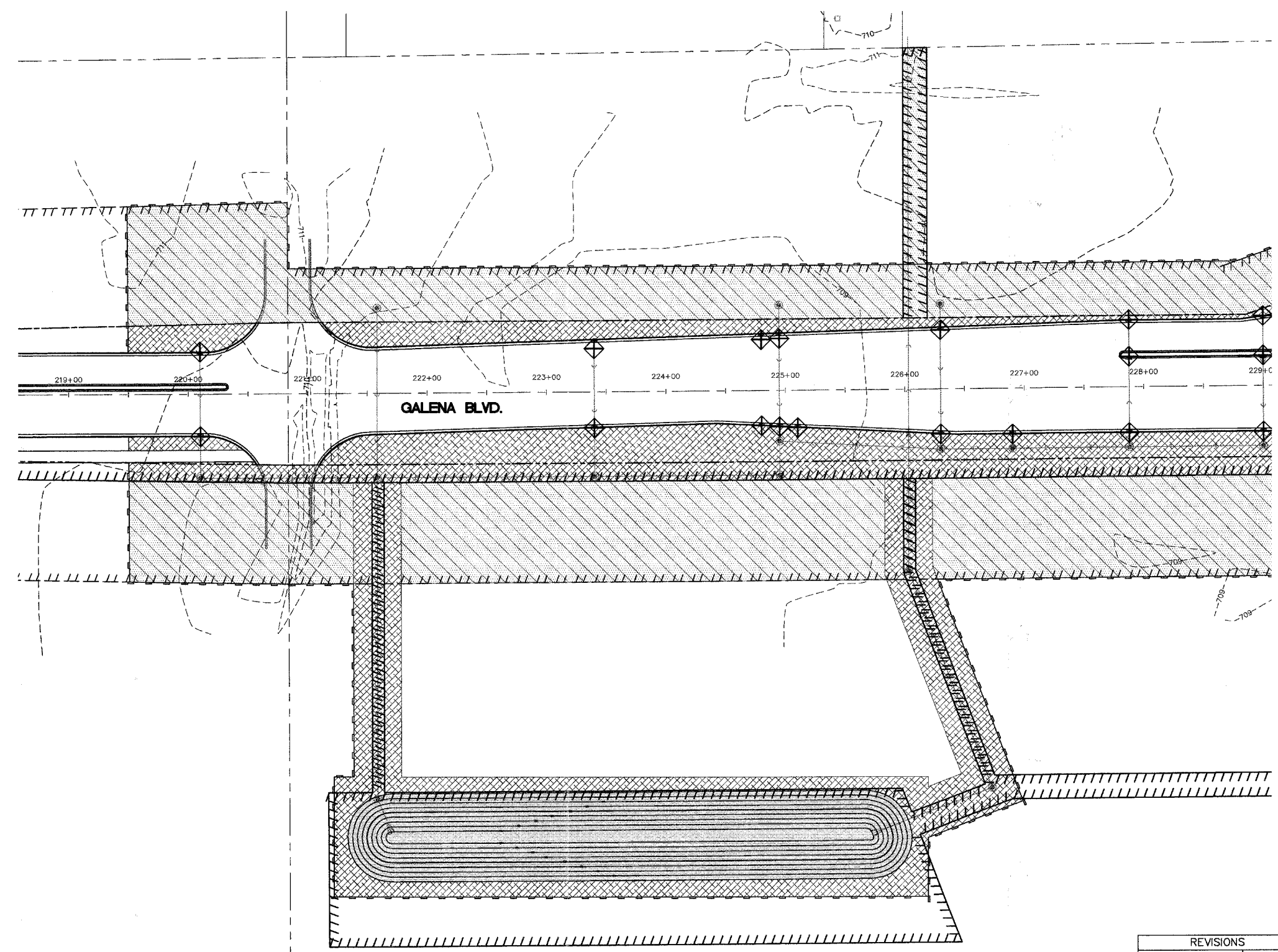
### ILLINOIS ROUTE 47 EROSION CONTROL AND SEEDING PLAN

SCALE: 1" = 50'  
DATE: 02/07/08

DRAWN BY: KKP  
CHECKED BY: WBR



- CLASS 1A SEEDING AND MULCH METHOD 3
  - CLASS 2 SEEDING AND MULCH METHOD 3
  - CLASS 4B SEEDING
  - PERIMETER EROSION BARRIER
  - NITROGEN FERTILIZER NUTRIENT (90 LBS/AC)
  - POTASSIUM FERTILIZER NUTRIENT (90 LBS/AC)
  - PHOSPHORUS FERTILIZER NUTRIENT (90 LBS/AC)
  - INLET FILTER
  - TEMPORAY DITCH CHECK
- THE THICKNESS OF THE TOPSOIL SHALL BE A MINIMUM OF 4".



PLAN	DATE
BY	
REVISIONS	
NO.	
NOTE BOOK	
NO.	
ALIGNED CHECKED	
FILE NAME	

PROFILE	DATE
BY	
REVISIONS	
NO.	
NOTE BOOK	
NO.	
GRADES CHECKED	
NOTATION CHECKED	

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**GALENA BOULEVARD /  
DETENTION BASIN "A" EROSION  
CONTROL AND SEEDING PLAN**

SCALE: 1" = 50'  
DATE: 02/07/08

DRAWN BY: KKP  
CHECKED BY: WBR







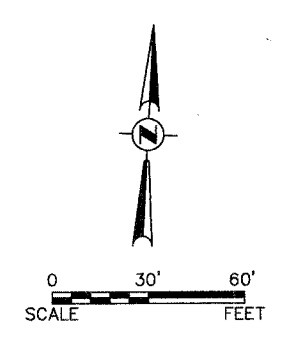






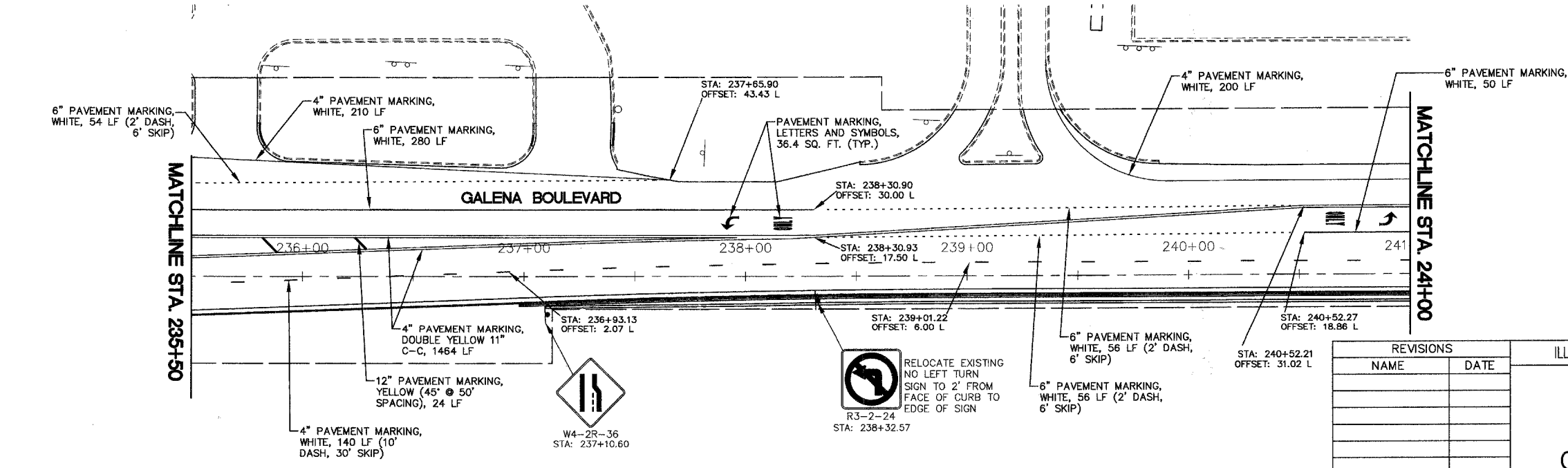
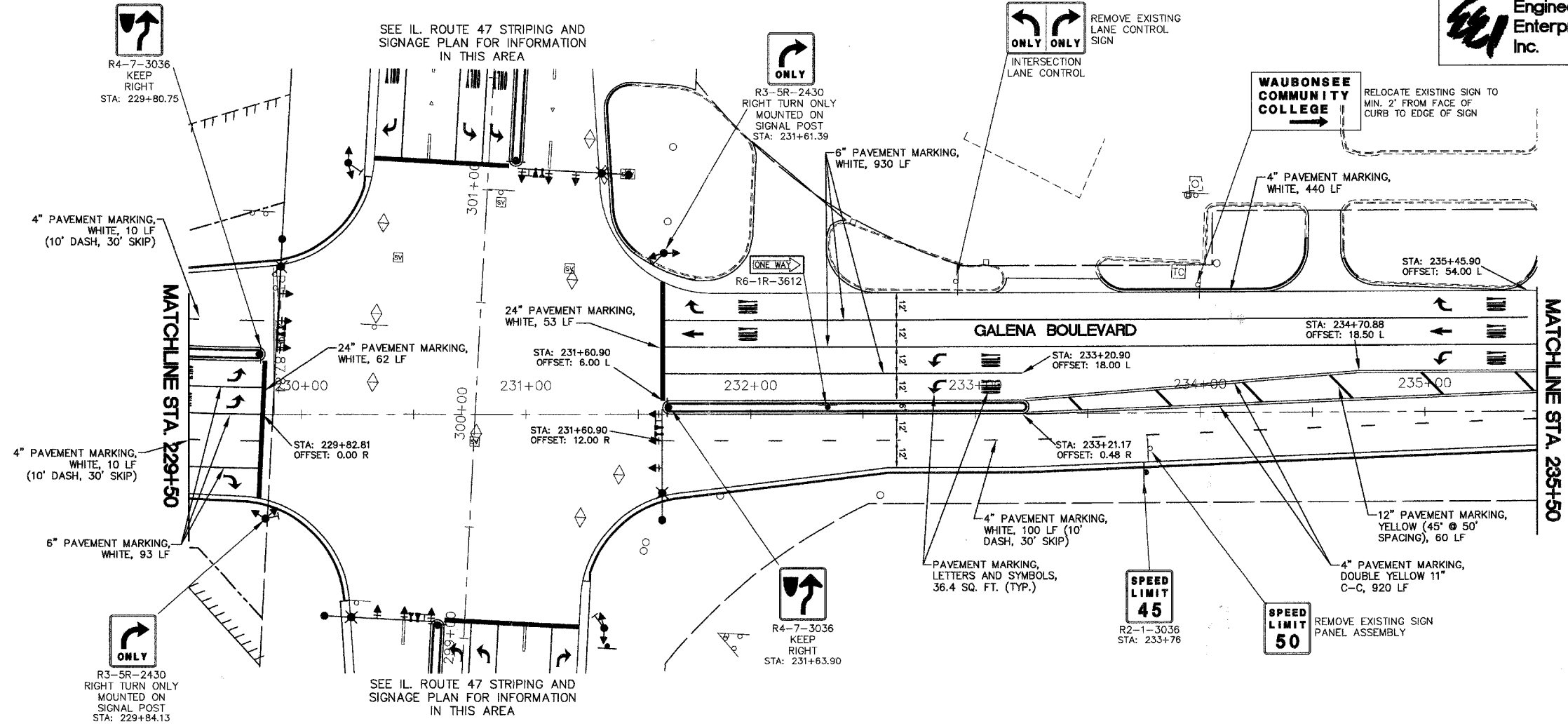


F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	D6-00017-00-PV	KANE	232	109
STA. 229+50		TO STA. 241+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



DATE	BY

DATE	BY



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

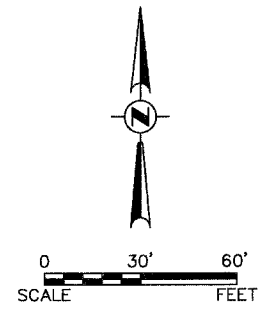
## STRIPING AND SIGNAGE PLAN GALENA BOULEVARD

SCALE: 1" = 30'  
DATE: 02/07/08  
DRAWN BY: KKP  
CHECKED BY: WBR



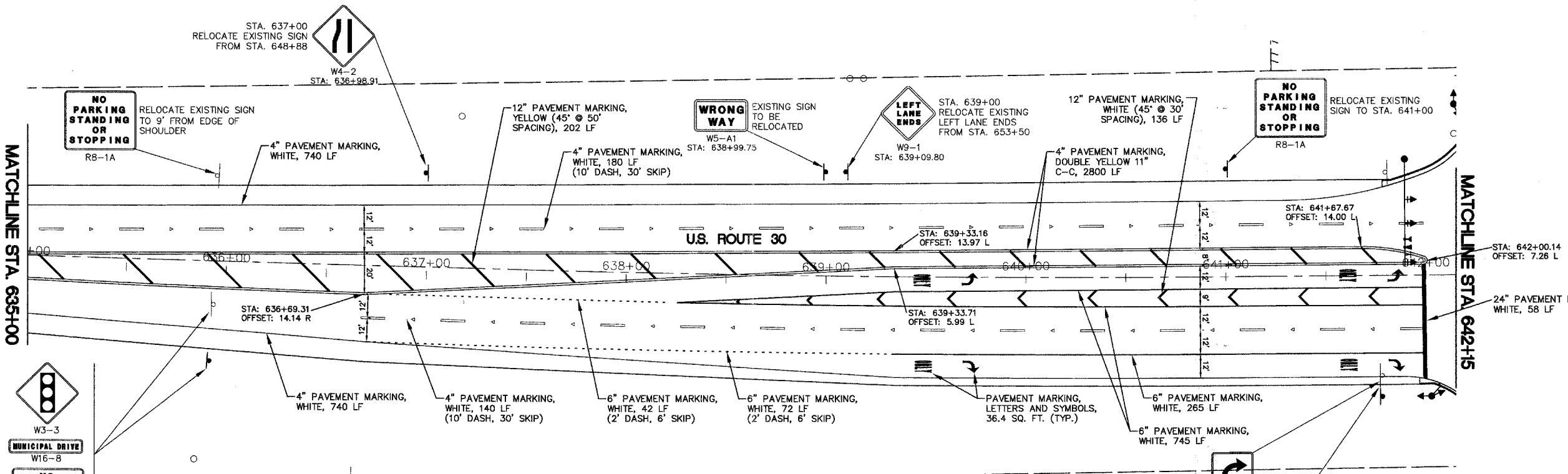
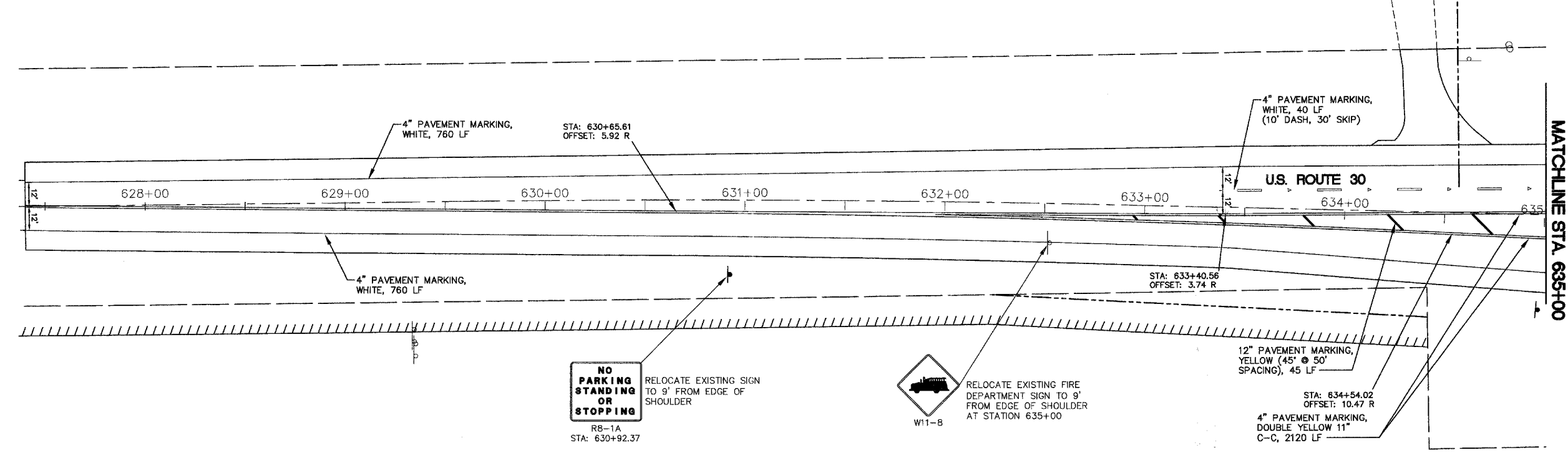
**Engineering Enterprises, Inc.**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	06-00017-00-PV	KANE	232	111
STA. 627+50		TO STA. 642+15		
FED. ROAD DIST. NO. _		ILLINOIS FED. AID PROJECT		



PLAN	DATE
SURVEYED	
PLOTTED	
ALIGNMENT CHECKED	
NOTE BOOK NO.	
ADD FILE NAME	

PROFILE	DATE
SURVEYED	
GRADES CHECKED	
STRUCTURE NOTATIONS OK'D	
NO.	



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

## STRIPING AND SIGNAGE PLAN

### U.S. ROUTE 30

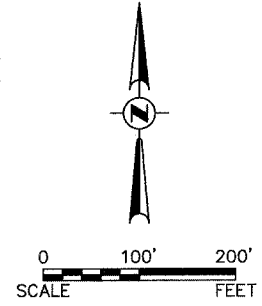
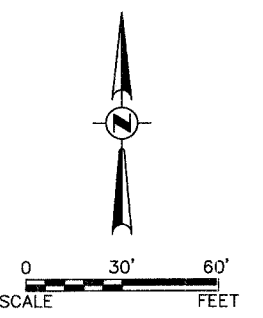
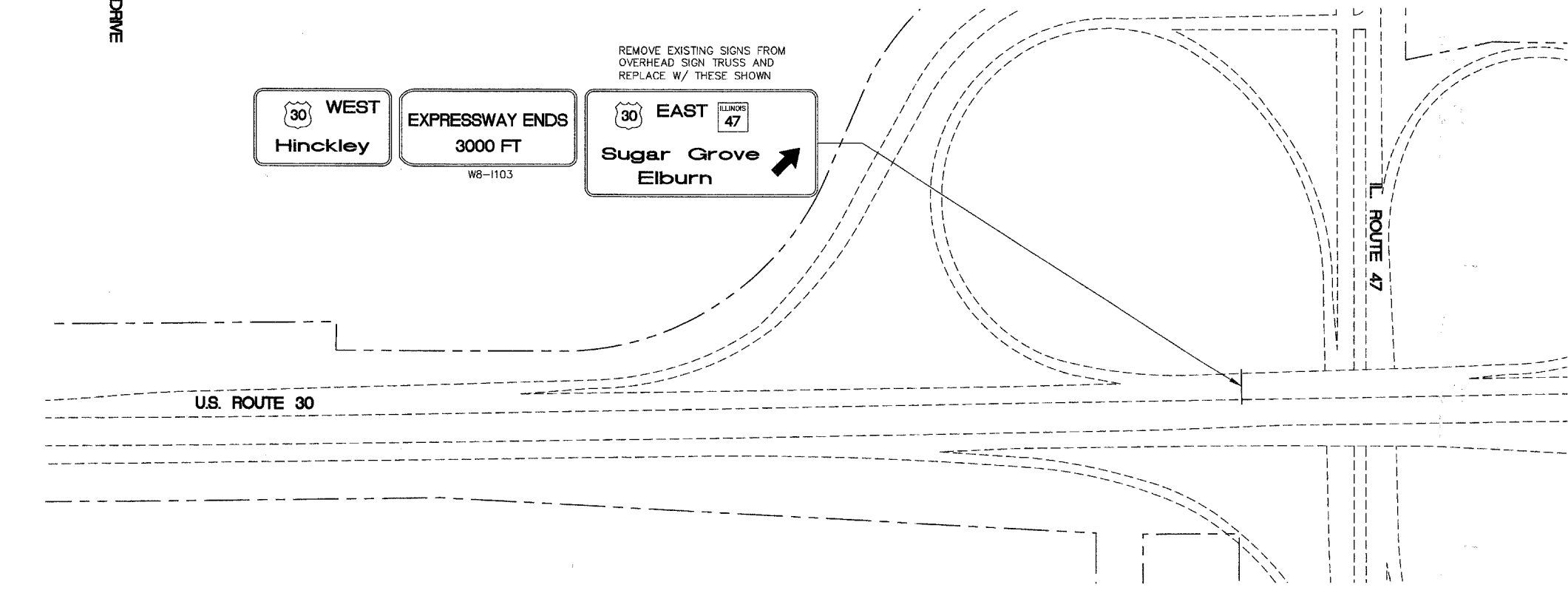
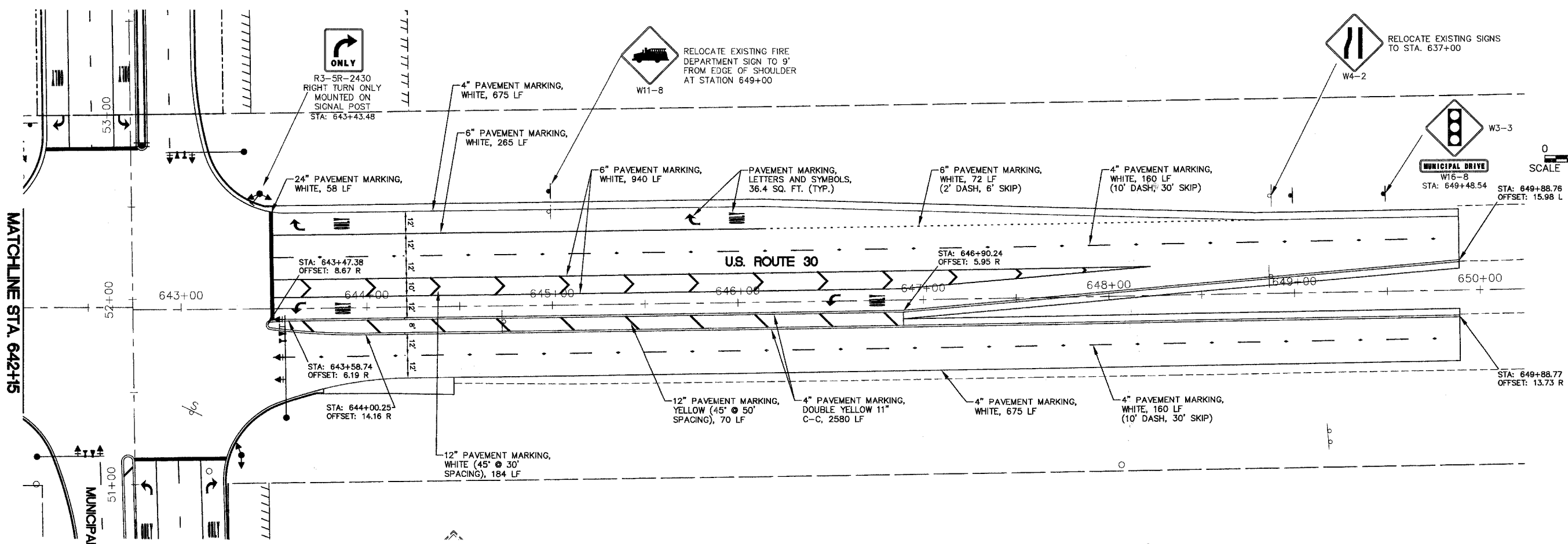
SCALE: 1" = 30'  
DATE: 02/07/08

DRAWN BY: KKP  
CHECKED BY: WBR

Engineering Enterprises, Inc.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	D6-00017-00-PV	KANE	232	112
	STA. 642+15 TO STA. 650+00		ILLINOIS FED. AID PROJECT		

PLAN	DATE
BY	
REVISIONS	
NO.	
DATE	
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REVISIONS	
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DATE	
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PROFILE	DATE
BY	
REVISIONS	
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DATE	
BY	
REVISIONS	
NO.	
DATE	
BY	



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

## STRIPING AND SIGNAGE PLAN

### U.S. ROUTE 30

SCALE: 1" = 30'  
DATE: 02/07/08

DRAWN BY: KKP  
CHECKED BY: WBR



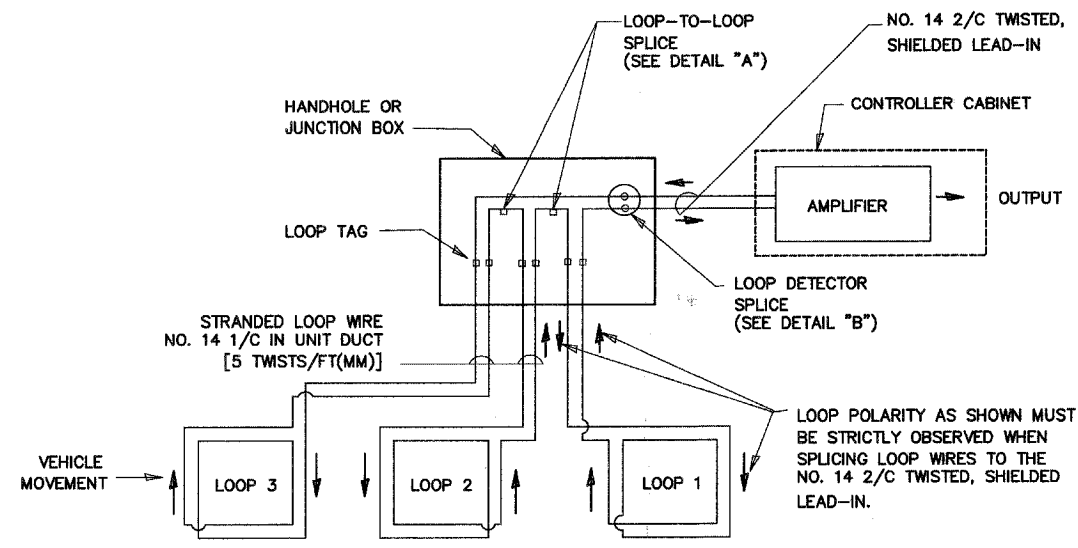




F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	06-00017-00-PV	KANE	232	115
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

**LOOP DETECTOR NOTES**

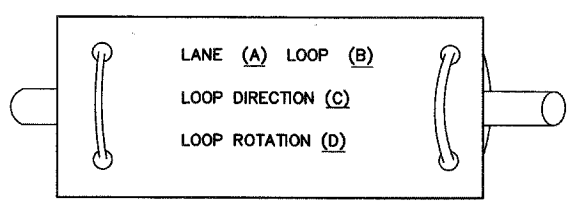
1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE UNIT DUCT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). UNIT DUCT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.



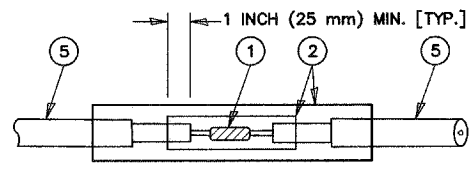
**DETECTOR LOOP WIRING SCHEMATIC**

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

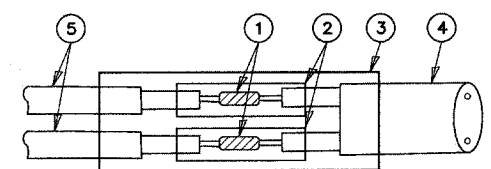
**LOOP LEAD-IN CABLE TAG**



- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



**DETAIL "A"  
LOOP-TO-LOOP SPLICE**



**DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE**

**LOOP DETECTOR SPLICE**

- ① WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.
- ② WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- ③ WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- ④ NO. 14 2/C TWISTED, SHIELDED CABLE.
- ⑤ LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL  
DESIGN DETAILS**

SCALE: NTS  
DATE: 05/16/08

DRAWN BY: KKP  
CHECKED BY: TWV

DATE	
BY	
REVISIONS	
PLANNED	
NOTED	
FILED	
NO.	

DATE	
BY	
REVISIONS	
PLANNED	
NOTED	
FILED	
NO.	

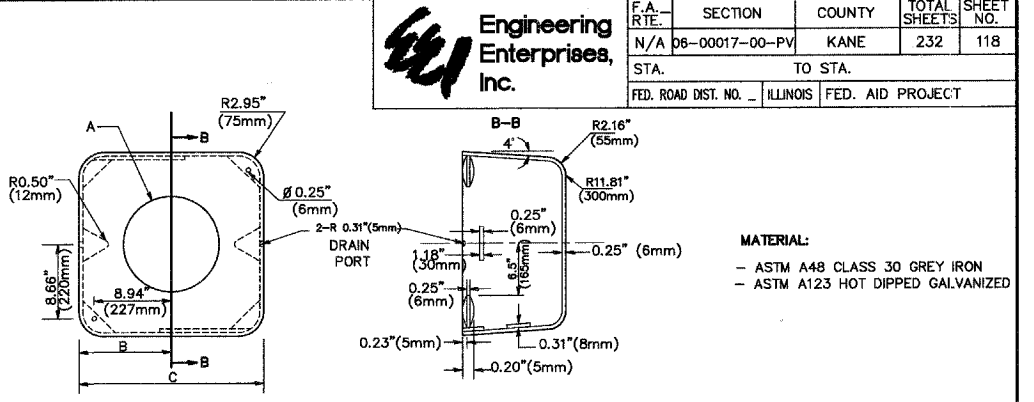
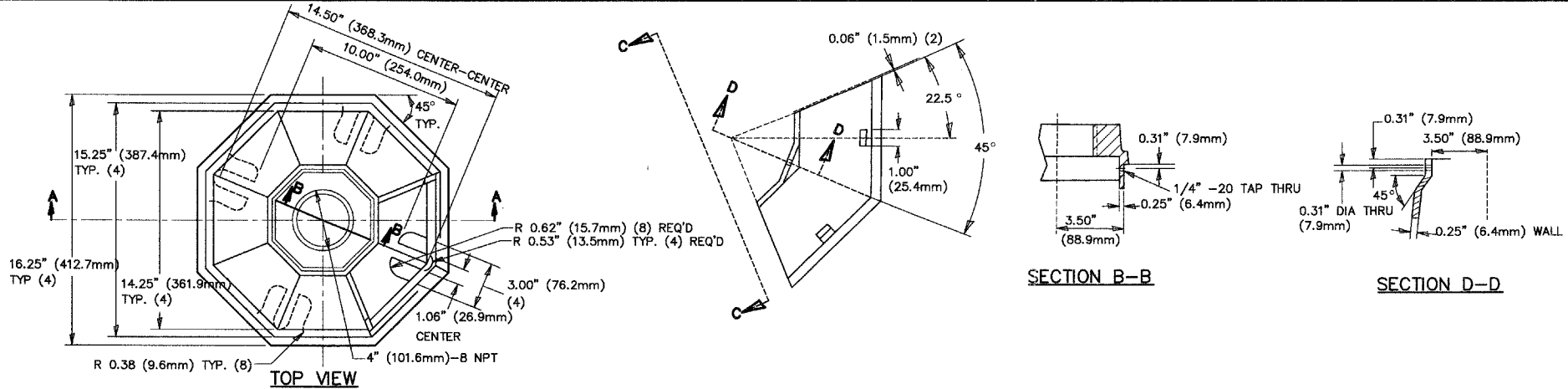






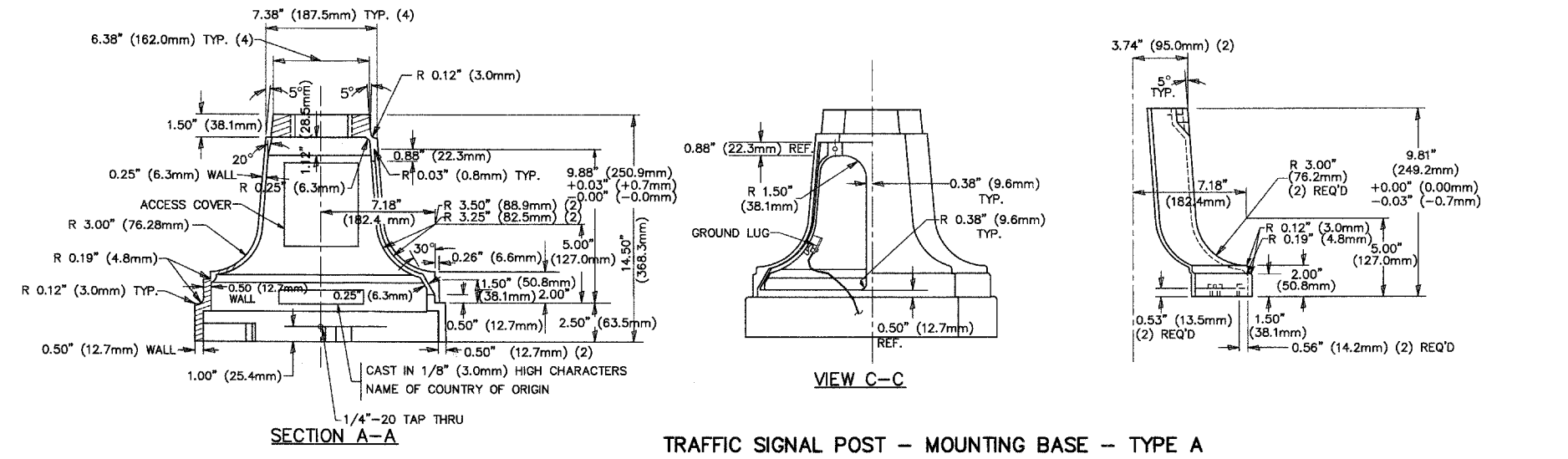
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	06-00017-00-PV	KANE	232	118
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

**Engineering Enterprises, Inc.**

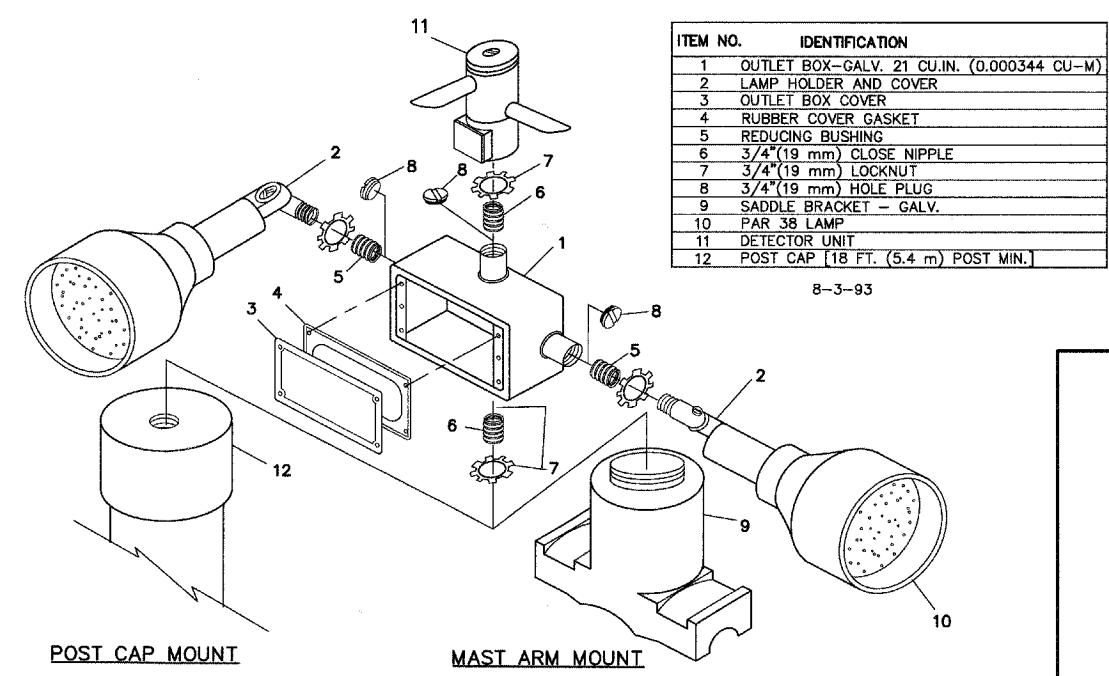
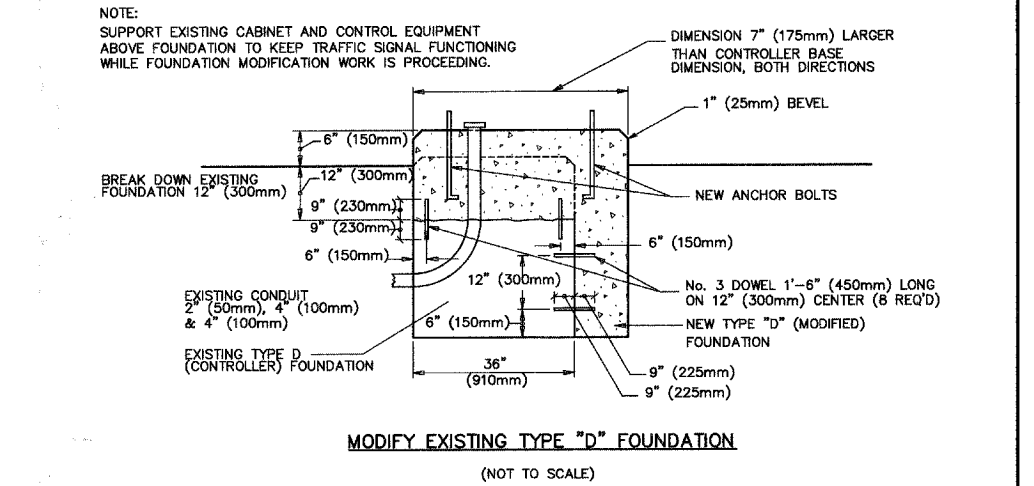


TYPE	A	B	C	HEIGHT	WEIGHT
I	Ø 10.125\"(257mm)	9.5\"(241mm)	19\"(483mm)	12\" (300mm)	24kg
II	Ø 11.125\"(283mm)	10.75\"(273mm)	21.5\"(546mm)	12\" (300mm)	26kg

**MATERIAL:**  
 - ASTM A48 CLASS 30 GREY IRON  
 - ASTM A123 HOT DIPPED GALVANIZED

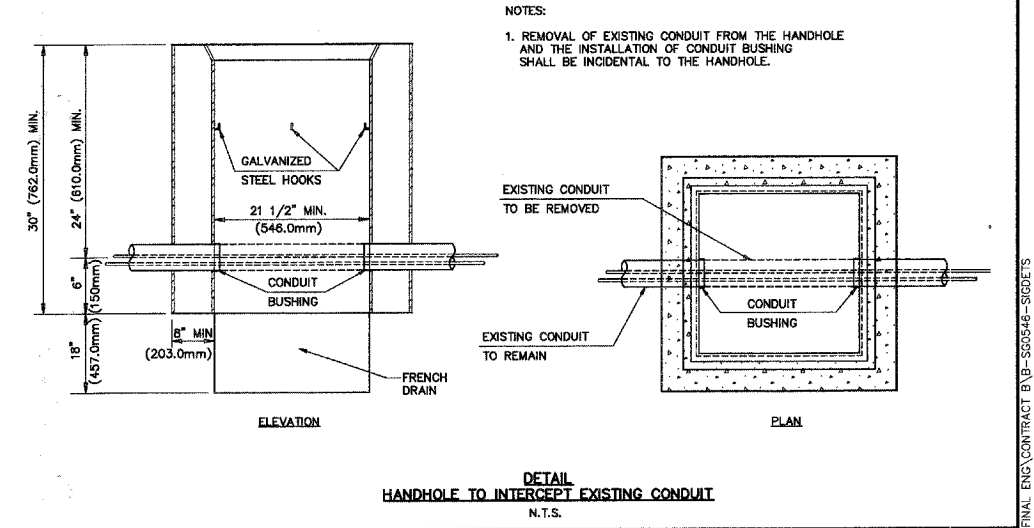
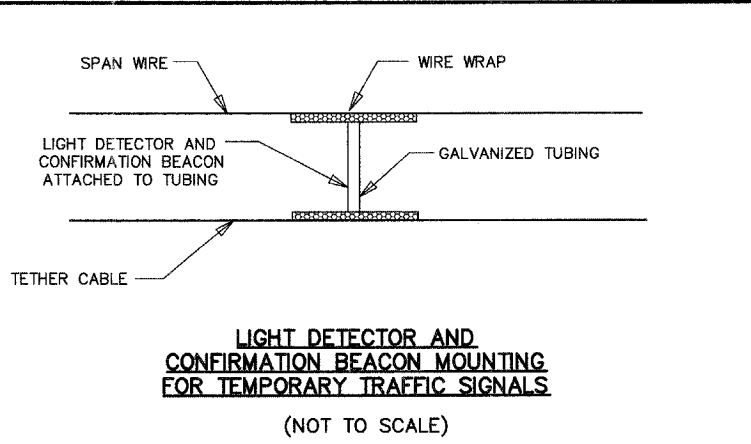


TRAFFIC SIGNAL POST - MOUNTING BASE -- TYPE A



ITEM NO.	IDENTIFICATION
1	OUTLET BOX-GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4\"(19 mm) CLOSE NIPPLE
7	3/4\"(19 mm) LOCKNUT
8	3/4\"(19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	PAR 38 LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

- NOTES:**
- ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
  - ITEM #1 - OZ/GEDNEY FSX-1-50 OR EQUIVALENT  
 ITEM #2 - MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT  
 ITEM #9 - "BAND-IT" SADDLE BRACKET OR EQUIVALENT
  - WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 1/8\"(19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION	
NAME	DATE		

**DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NTS  
 DATE: 05/16/08  
 DRAWN BY: KKP  
 CHECKED BY: TWV







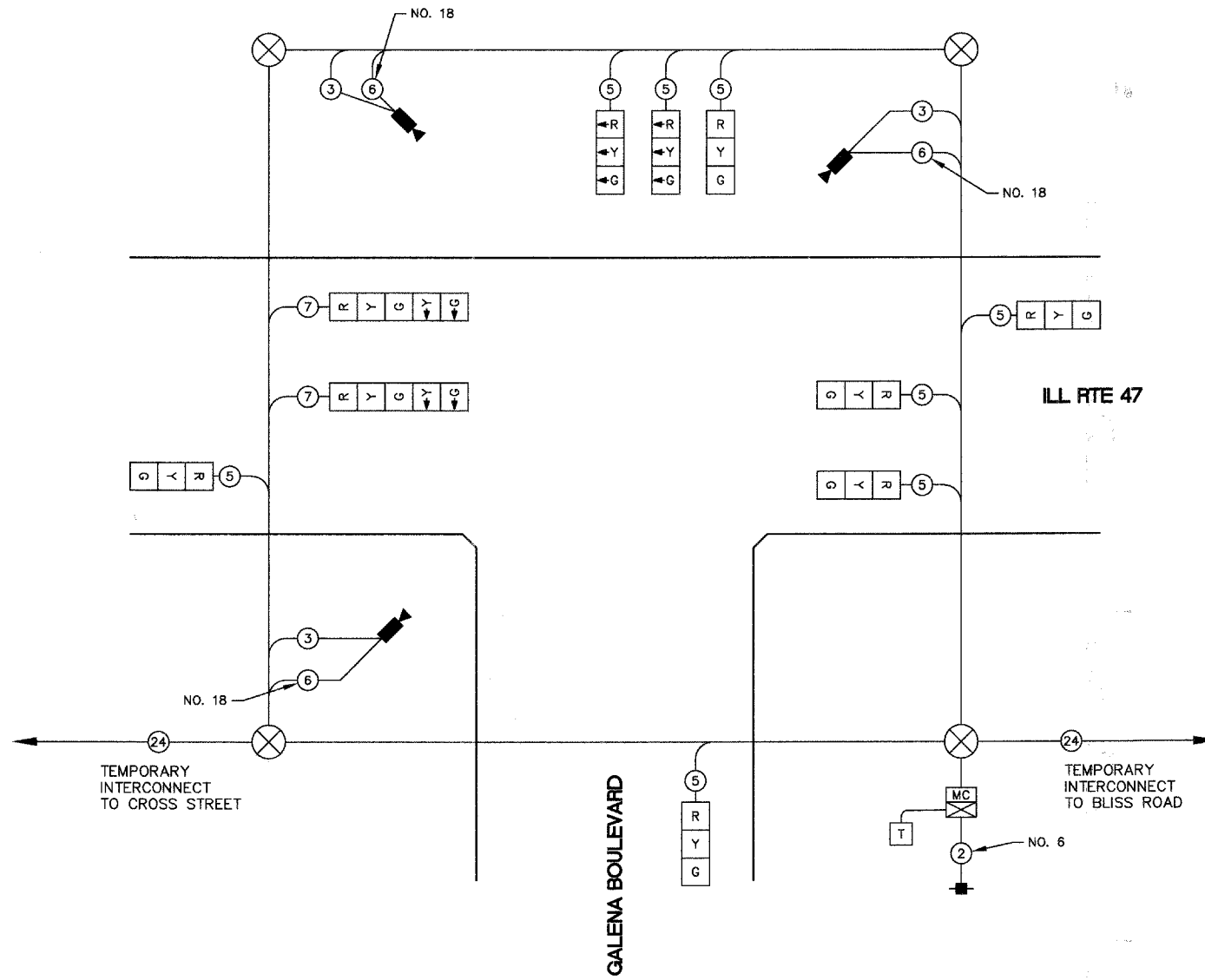
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	06-00017-00-PV	KANE	232	121
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

**TEMPORARY CABLE PLAN**  
**STAGE 1**  
 N.T.S.

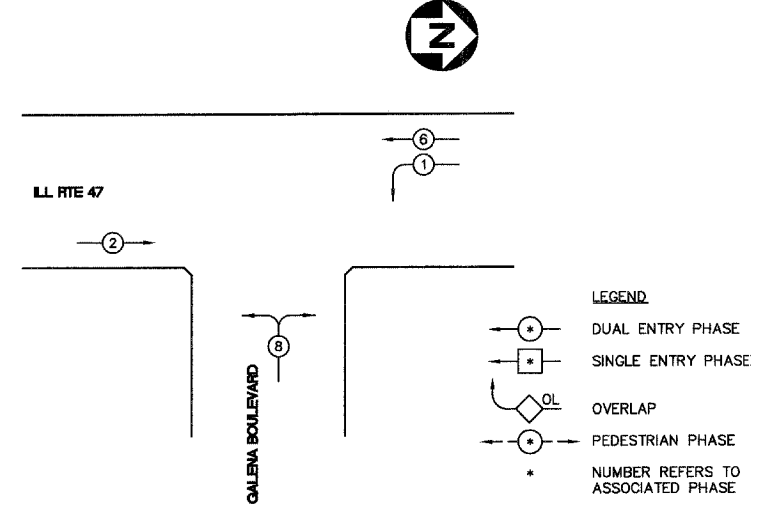


**TEMPORARY CABLE DIAGRAM LEGEND**

- R TEMPORARY TRAFFIC SIGNAL SECTION OR PEDESTRIAN SIGNAL SECTION 12" (300mm)
- X TEMPORARY CONTROLLER CABINET
- MC TEMPORARY MASTER CONTROLLER
- T TEMPORARY SERVICE INSTALLATION
- 5 INDICATES NUMBER OF CONDUCTORS IN CABLE. ALL CONDUCTORS TO BE NUMBER 14 AWG WIRE UNLESS OTHERWISE NOTED.
- 24 TEMPORARY INTERCONNECT CABLE NO 62.5/1250 MM 12F AND SM 12F FIBER OPTIC CABLE
- EMERGENCY VEHICLE DETECTOR
- CONFIRMATION BEACON
- VEHICLE DETECTOR, INDUCTION LOOP
- PEDESTRIAN PUSHBUTTON DETECTOR
- 12" (300mm) PEDESTRIAN SIGNAL SECTION
- VIDEO VEHICLE SENSOR
- T TELEPHONE CONNECTION



**TEMPORARY CONTROLLER SEQUENCE**  
**STAGE 1**



**TEMPORARY PHASE DESIGNATION DIAGRAM**

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	INCAND.	LED	% OPERATIONS	
SIGNAL (RED)	10	10	0.50	50.00	50.00
(YELLOW)	10	19	0.25	47.50	47.50
(GREEN)	10	11	0.25	27.50	27.50
ARROW	4	7	0.10	4.00	4.00
PED. SIGNAL	-	-	-	-	-
CONTROLLER	1	100	1.00	100.00	100.00
ILLUM. SIGN	1	-	0.05	-	-
FLASHER	-	-	0.50	-	-
				TOTAL =	225.00

ENERGY COST - BILLED TO: VILLAGE OF SUGAR GROVE  
 (ADDRESS) 10 MUNICIPAL DRIVE  
 SUGAR GROVE, IL 60554

ENERGY SUPPLY - CONTACT: MARK SCHERIBEL  
 PHONE: 630-862-5160  
 COMPANY: COMED

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**ILL RTE 47 AND GALENA BOULEVARD TEMPORARY SIGNAL CABLE PLAN, PHASE DESIGNATION DIAGRAM (STAGE 1)**

SCALE: NTS  
 DATE: 05/16/08

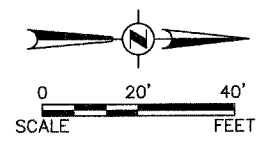
DRAWN BY: KKP  
 CHECKED BY: TVW

DATE	
BY	
PLAN	
NO.	
NOTE BOOK	
NO.	
NO. OF WAY CHECKED	
ALIGNED CHECKED	
PROFILE	
NO.	

DATE	
BY	
PROFILE	
NO.	
NOTE BOOK	
NO.	
NO. OF WAY CHECKED	
ALIGNED CHECKED	
PROFILE	
NO.	

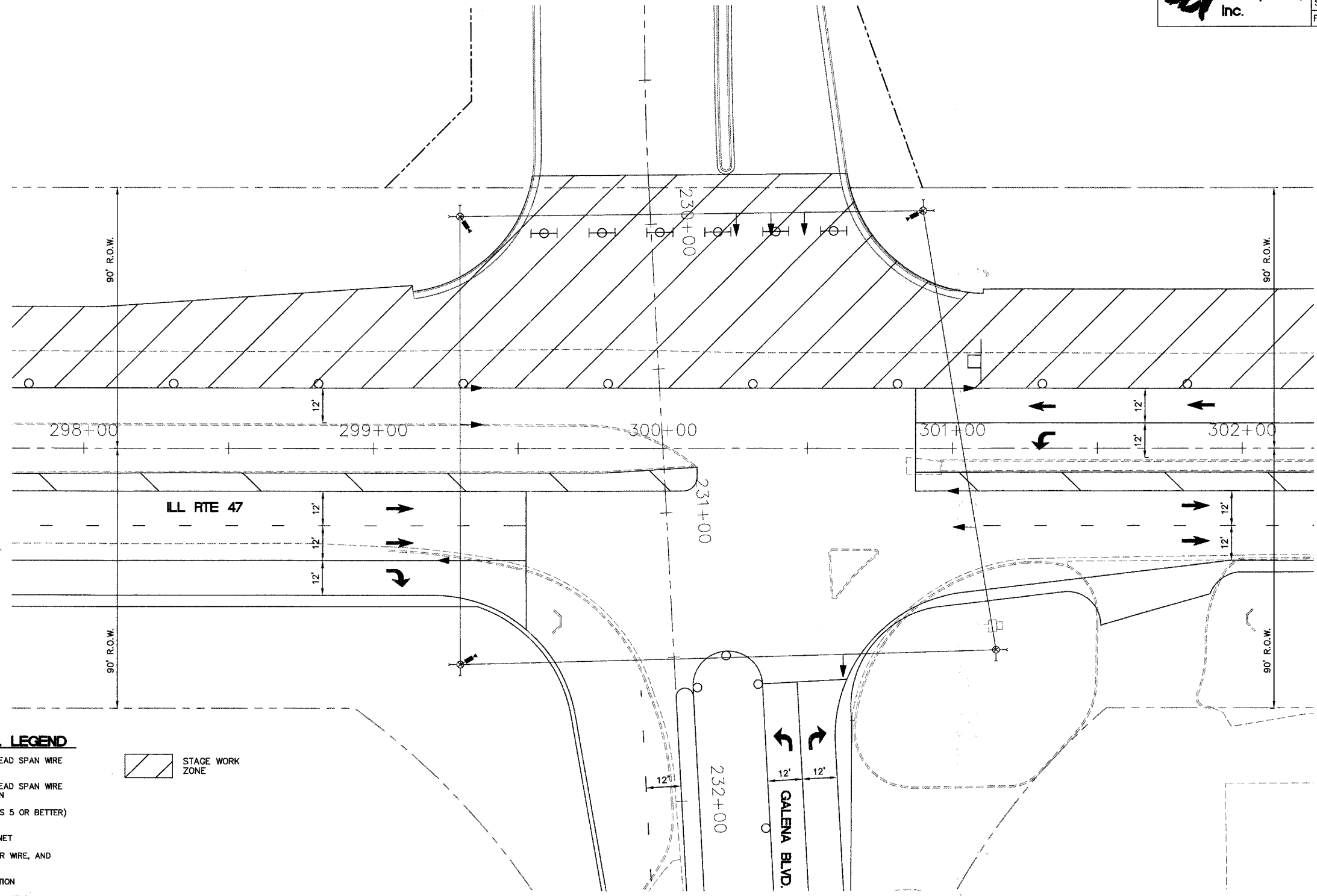


F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	06-00017-00-PV	KANE	232	122
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



PLAN	DATE
BY	
DATE	
STANDARD	
PLOTTED	
ALIGNMENT CHECKED	
AS BUILT	
FILE NAME	
NO.	

PROFILE	DATE
BY	
DATE	
STANDARD	
PLOTTED	
AS BUILT	
FILE NAME	
NO.	



**TEMPORARY TRAFFIC SIGNAL LEGEND**

- ▲ TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED ORIGINAL LOCATION
- ▽ TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED SECONDARY LOCATION
- ⊗ TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM
- ⊠ TEMPORARY CONTROLLER CABINET
- TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE
- ⊕ TEMPORARY SERVICE INSTALLATION
- TEMPORARY PEDESTRIAN SIGNAL HEAD, BRACKET MOUNTED
- ⊙ TEMPORARY PEDESTRIAN PUSHBUTTON DETECTOR
- ▶ VIDEO VEHICLE SENSOR
- ▼ EMERGENCY VEHICLE LIGHT DETECTOR
- ⊕ CONFIRMATION BEACON
- VEHICLE DETECTOR, INDUCTION LOOP
- UD UNIT DUCT
- G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)
- HANDHOLE
- HEAVY DUTY HANDHOLE
- CT COMMON TRENCH
- ┆ DOWN GUY
- ▨ STAGE WORK ZONE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**ILL RTE 47 AND GALENA BOULEVARD TEMPORARY TRAFFIC SIGNAL (STAGE 2)**

SCALE: 1" = 20'  
DATE: 02/07/08

DRAWN BY:  
CHECKED BY: TVW



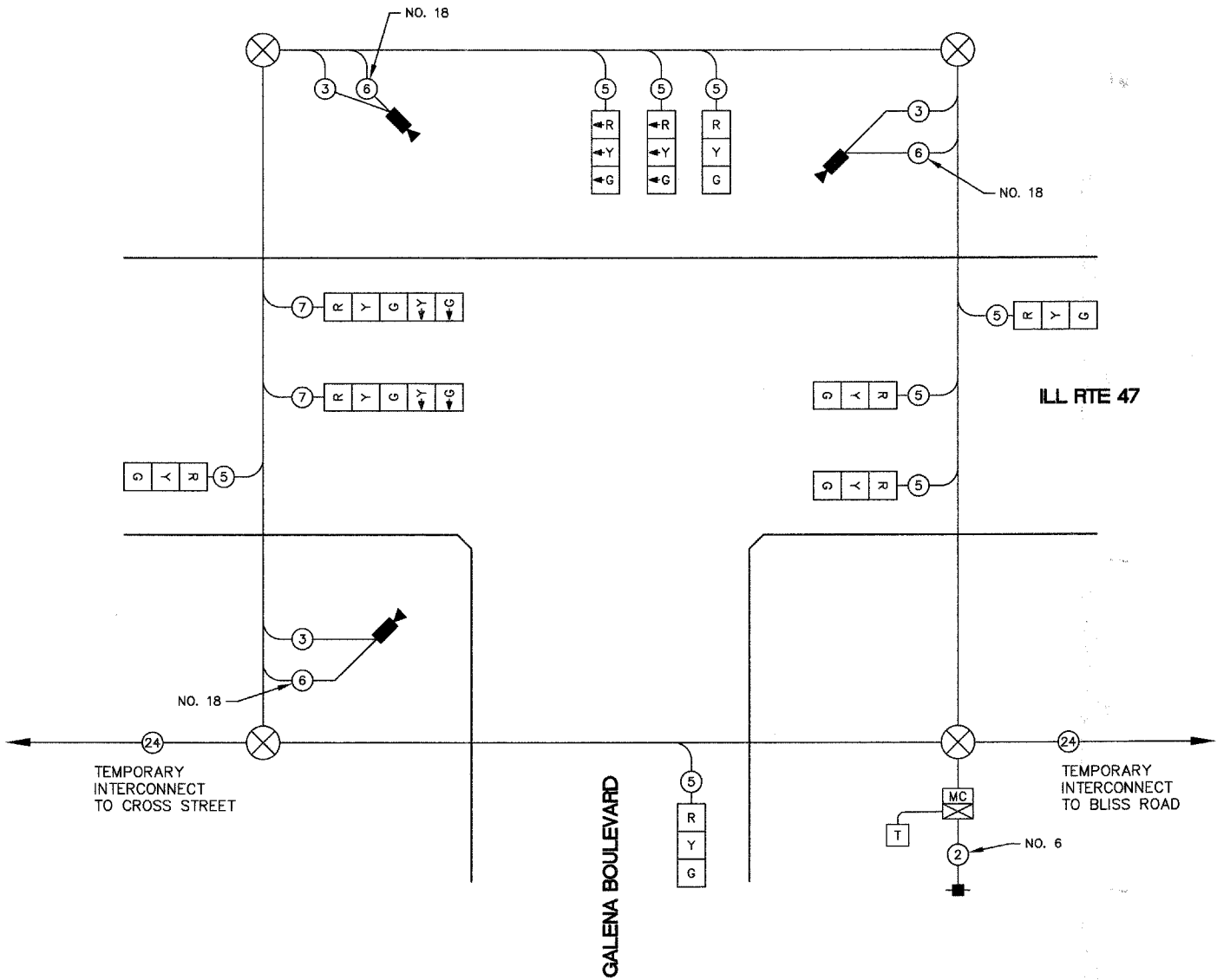
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	D6-00017-00-PV	KANE	232	123
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

**TEMPORARY CABLE PLAN**  
**STAGE 2**  
N.T.S.

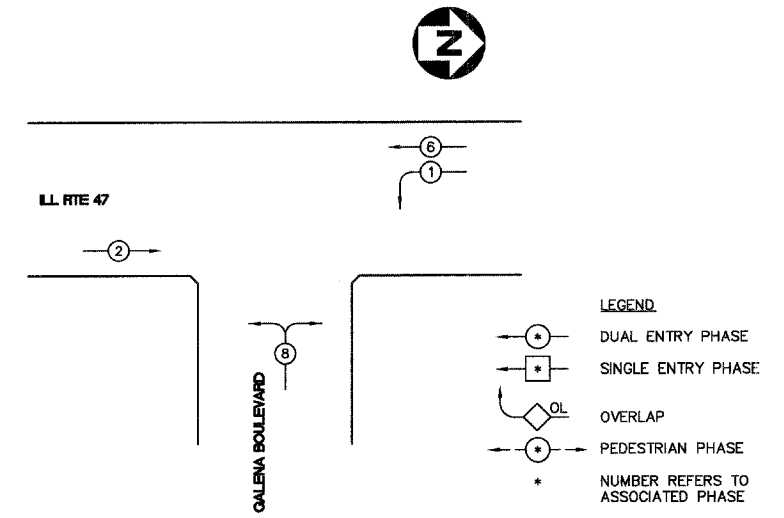


**TEMPORARY CABLE DIAGRAM LEGEND**

- R TEMPORARY TRAFFIC SIGNAL SECTION OR PEDESTRIAN SIGNAL SECTION 12" (300mm)
- X TEMPORARY CONTROLLER CABINET
- MC TEMPORARY MASTER CONTROLLER
- + TEMPORARY SERVICE INSTALLATION
- ⑤ INDICATES NUMBER OF CONDUCTORS IN CABLE. ALL CONDUCTORS TO BE NUMBER 14 AWG WIRE UNLESS OTHERWISE NOTED.
- ②④ TEMPORARY INTERCONNECT CABLE NO 62.5/1250 MM 12F AND SM 12F FIBER OPTIC CABLE
- EMERGENCY VEHICLE DETECTOR
- CONFIRMATION BEACON
- VEHICLE DETECTOR, INDUCTION LOOP
- PEDESTRIAN PUSHBUTTON DETECTOR
- 12" (300mm) PEDESTRIAN SIGNAL SECTION
- VIDEO VEHICLE SENSOR
- T TELEPHONE CONNECTION



**TEMPORARY CONTROLLER SEQUENCE**  
**STAGE 2**



**TEMPORARY PHASE DESIGNATION DIAGRAM**

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	INCAND.	LED	% OPERATIONS	
SIGNAL (RED)	10		10	0.50	50.00
(YELLOW)	10		19	0.25	47.50
(GREEN)	10		11	0.25	27.50
ARROW	4		10	0.10	4.00
PED. SIGNAL	-		7	1.00	-
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN	-		-	0.05	-
FLASHER				0.50	-
TOTAL =					225.00

ENERGY COST - BILLED TO: VILLAGE OF SUGAR GROVE  
10 MUNICIPAL DRIVE  
SUGAR GROVE, IL 60554

ENERGY SUPPLY - CONTACT: MARK SCHERIBEL  
PHONE: 630-862-5160  
COMPANY: COMED

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**ILL RTE 47 AND GALENA BOULEVARD TEMPORARY SIGNAL CABLE PLAN, PHASE DESIGNATION DIAGRAM (STAGE 2)**

SCALE: NTS  
DATE: 05/16/08

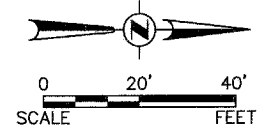
DRAWN BY: KKP  
CHECKED BY: TWV

PLAN	DATE
REVISIONS	BY
ALIGNED	
CHECKED	
DATE	
NO.	

PROFILE	DATE
REVISIONS	BY
GRADES	
CHECKED	
DATE	
NO.	

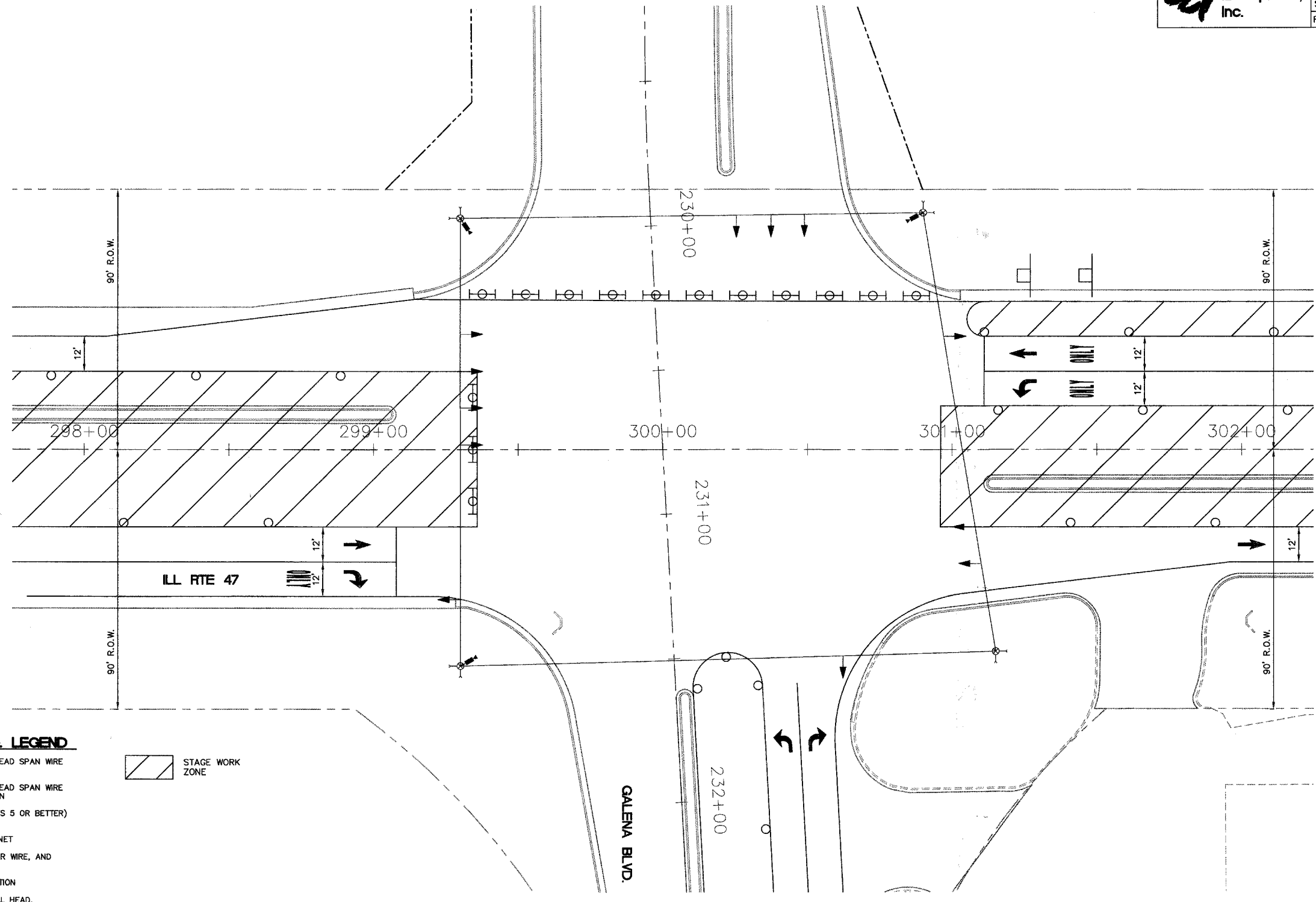
**Engineering Enterprises, Inc.**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	06-00017-00-PV	KANE	232	124
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



PLAN	REVISIONS	DATE
NO.	BY	
NO.	BY	
NO.	BY	
NO.	BY	

PROFILE	REVISIONS	DATE
NO.	BY	
NO.	BY	
NO.	BY	
NO.	BY	



**TEMPORARY TRAFFIC SIGNAL LEGEND**

- TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED ORIGINAL LOCATION
- TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED SECONDARY LOCATION
- TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM
- TEMPORARY CONTROLLER CABINET
- TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE
- TEMPORARY SERVICE INSTALLATION
- TEMPORARY PEDESTRIAN SIGNAL HEAD, BRACKET MOUNTED
- TEMPORARY PEDESTRIAN PUSHBUTTON DETECTOR
- VIDEO VEHICLE SENSOR
- EMERGENCY VEHICLE LIGHT DETECTOR
- CONFIRMATION BEACON
- VEHICLE DETECTOR, INDUCTION LOOP
- UNIT DUCT
- G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)
- HANDHOLE
- HEAVY DUTY HANDHOLE
- COMMON TRENCH
- DOWN GUY



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**ILL RTE 47 AND GALENA BOULEVARD TEMPORARY TRAFFIC SIGNAL (STAGE 3)**

SCALE: 1" = 20'  
DATE: 02/07/08

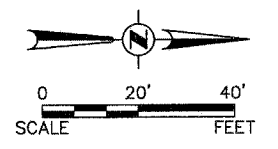
DRAWN BY:  
CHECKED BY: TWV





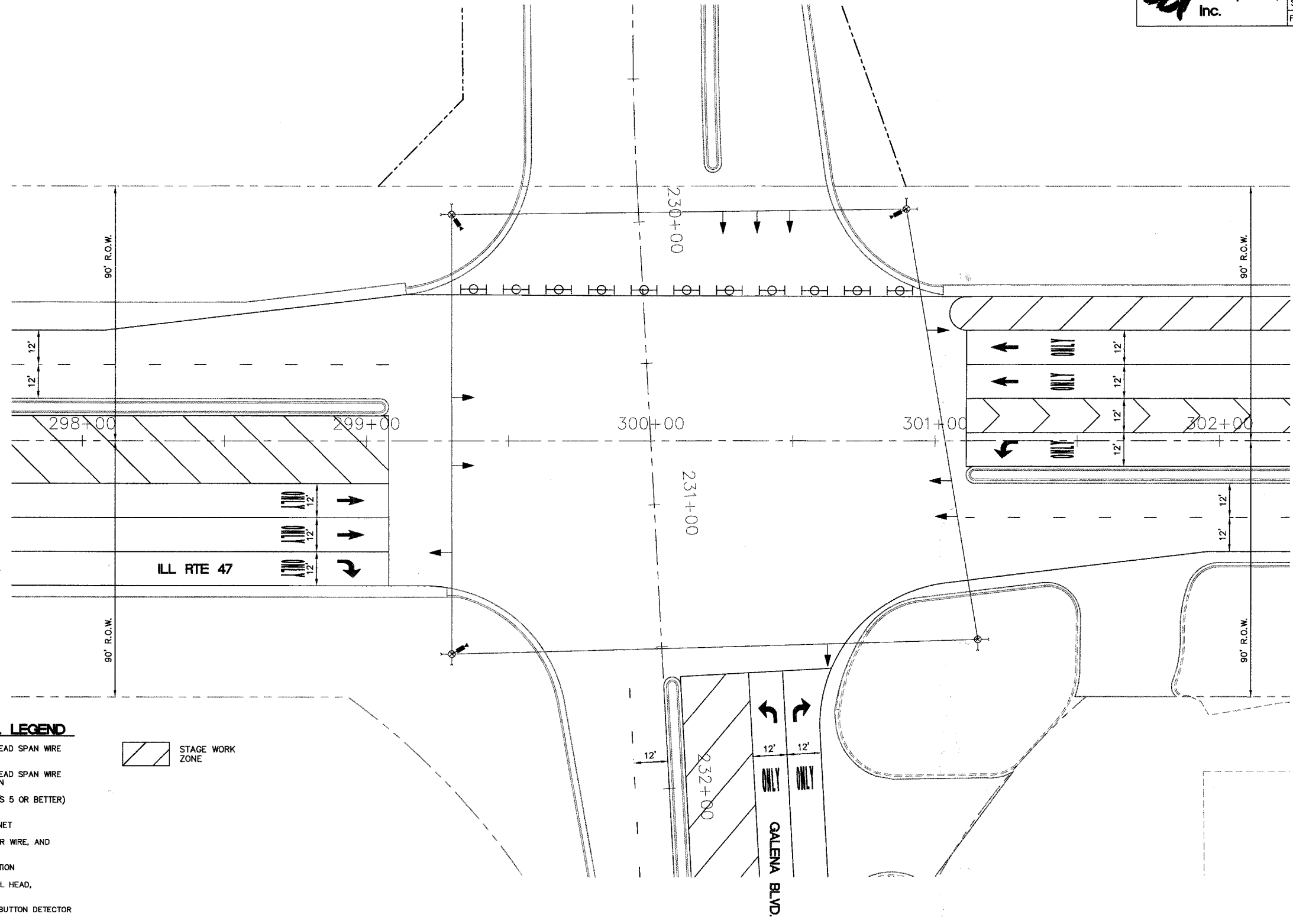


F.A. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	06-00017-00-PV	KANE	232	126
STA.	TO STA.			
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT		



PLAN	DATE
NO.	
NOTE BOOK	
STANDARD	
PLOTTED	
ALIGNMENT CHECKED	
BY	
FILE NAME	

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



**TEMPORARY TRAFFIC SIGNAL LEGEND**

- ← TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED ORIGINAL LOCATION
- ↑ TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED SECONDARY LOCATION
- ⊗ TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM
- ⊠ TEMPORARY CONTROLLER CABINET
- TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE
- ⊕ TEMPORARY SERVICE INSTALLATION
- ⊞ TEMPORARY PEDESTRIAN SIGNAL HEAD, BRACKET MOUNTED
- ⊙ TEMPORARY PEDESTRIAN PUSHBUTTON DETECTOR
- VIDEO VEHICLE SENSOR
- ⚡ EMERGENCY VEHICLE LIGHT DETECTOR
- ⚡ CONFIRMATION BEACON
- VEHICLE DETECTOR, INDUCTION LOOP
- UD UNIT DUCT
- G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)
- HANDHOLE
- ⊞ HEAVY DUTY HANDHOLE
- CT COMMON TRENCH
- T DOWN GUY



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**ILL RTE 47 AND GALENA BOULEVARD TEMPORARY TRAFFIC SIGNAL (STAGE 4)**

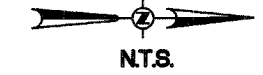
SCALE: 1" = 20'  
DATE: 02/07/08

DRAWN BY:  
CHECKED BY: TWV



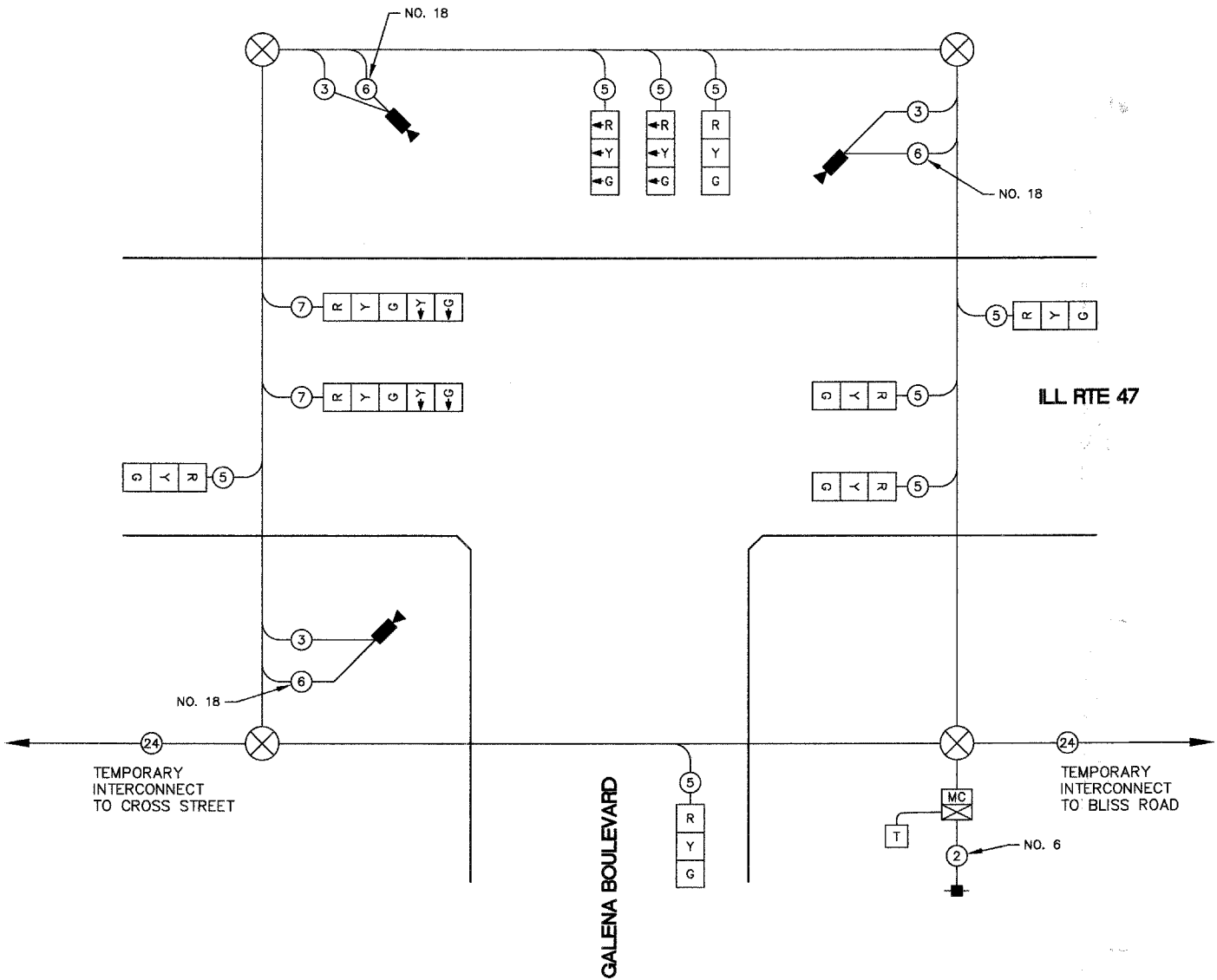
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	D6-00017-00-PV	KANE	232	127
STA.		TO STA.		
FED. ROAD DIST. NO. _		ILLINOIS FED. AID PROJECT		

**TEMPORARY CABLE PLAN**  
**STAGE 4**  
N.T.S.

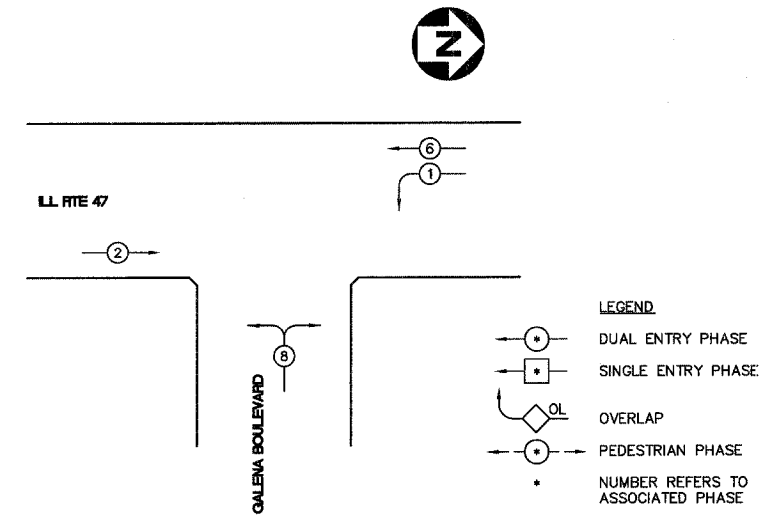


**TEMPORARY CABLE DIAGRAM LEGEND**

- R TEMPORARY TRAFFIC SIGNAL SECTION OR PEDESTRIAN SIGNAL SECTION 12" (300mm)
- MC TEMPORARY CONTROLLER CABINET
- MC TEMPORARY MASTER CONTROLLER
- TEMPORARY SERVICE INSTALLATION
- 5 INDICATES NUMBER OF CONDUCTORS IN CABLE. ALL CONDUCTORS TO BE NUMBER 14 AWG WIRE UNLESS OTHERWISE NOTED.
- 24 TEMPORARY INTERCONNECT CABLE NO 62.5/1250 MM 12F AND SM 12F FIBER OPTIC CABLE
- EMERGENCY VEHICLE DETECTOR
- CONFIRMATION BEACON
- VEHICLE DETECTOR, INDUCTION LOOP
- PEDESTRIAN PUSHBUTTON DETECTOR
- 12" 12" (300mm) PEDESTRIAN SIGNAL SECTION
- VIDEO VEHICLE SENSOR
- T TELEPHONE CONNECTION



**TEMPORARY CONTROLLER SEQUENCE**  
**STAGE 4**



**TEMPORARY PHASE DESIGNATION DIAGRAM**

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

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	INCAND.	LED	% OPERATIONS	
SIGNAL (RED)	10		10	0.50	50.00
(YELLOW)	10		19	0.25	47.50
(GREEN)	10		11	0.25	27.50
ARROW	4		7	1.00	4.00
PED. SIGNAL			7	1.00	7.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN				0.05	0.50
FLASHER				0.50	0.50
TOTAL =					225.00

ENERGY COST - BILLED TO: VILLAGE OF SUGAR GROVE  
(ADDRESS) 10 MUNICIPAL DRIVE  
SUGAR GROVE, IL 60554

ENERGY SUPPLY - CONTACT: MARK SCHERIBEL  
PHONE: 630-862-5160  
COMPANY: COMED

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**ILL RTE 47 AND GALENA BOULEVARD TEMPORARY SIGNAL CABLE PLAN, PHASE DESIGNATION DIAGRAM (STAGE 4)**

SCALE: NTS      DRAWN BY: KKP  
DATE: 05/16/08      CHECKED BY: TVW

PLAN	DATE
SURVEYED	BY
PLOTTED	
ALIGNMENT CHECKED	
NOTE BOOK	
NO.	
CADD FILE NAME	
NO.	

PROFILE	DATE
SURVEYED	BY
PLOTTED	
GRADES CHECKED	
STRUCTURE NOTATIONS OK'D	
NO.	







F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	06-00017-00-PV	KANE	232	130
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

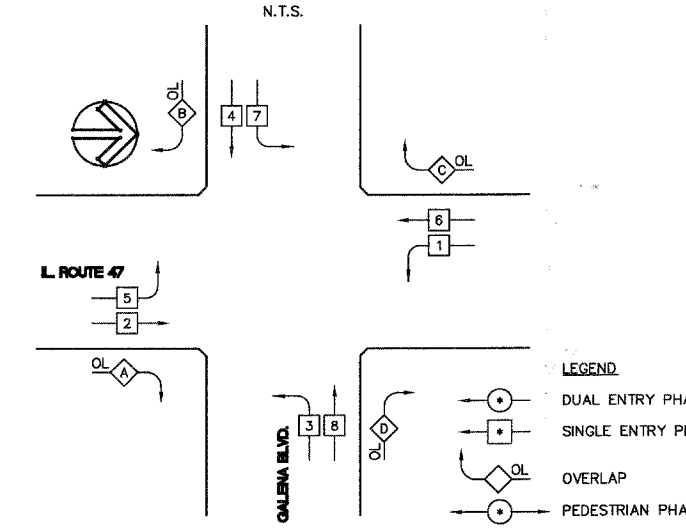
**SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM DESCRIPTION
1	CAL. MO	CHANGEABLE MESSAGE SIGN
75	SQ FT	SIGN PANEL - TYPE 1
1	EACH	SERVICE INSTALLATION - POLE MOUNTED
1502	FOOT	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
171	FOOT	CONDUIT IN TRENCH, 2-1/2" DIA., GALVANIZED STEEL
52	FOOT	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL
138	FOOT	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL
17	FOOT	CONDUIT IN TRENCH, 5" DIA., GALVANIZED STEEL
380	FOOT	CONDUIT, PUSHED 2" DIA., GALVANIZED STEEL
497	FOOT	CONDUIT, PUSHED 4" DIA., GALVANIZED STEEL
7	EACH	HANDHOLE
2	EACH	HEAVY-DUTY HANDHOLE
2	EACH	DOUBLE HANDHOLE
1869	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL
1286	FOOT	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 8 1C
1116	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
3159	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
2044	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
4186	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
239	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C
1116	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 20 3/C, TWISTED, SHIELDED
4	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.
3	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 50 FT.
16	FOOT	CONCRETE FOUNDATION, TYPE A
4	FOOT	CONCRETE FOUNDATION, TYPE C
60	FOOT	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER
1	EACH	DRILL EXISTING HANDHOLE
8	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
4	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
12	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
18	EACH	INDUCTIVE LOOP DETECTOR
2053	FOOT	DETECTOR LOOP, TYPE I
4	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER
1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	REMOVE EXISTING HANDHOLE
7	EACH	REMOVE EXISTING CONCRETE FOUNDATION
1	EACH	TEMPORARY TRAFFIC SIGNAL TIMING
1	EACH	UNINTERRUPTIBLE POWER SUPPLY

**CABLE PLAN LEGEND**

EXISTING	PROPOSED	DESCRIPTION
		8" (200mm) TRAFFIC SIGNAL SECTION
		12" (300mm) TRAFFIC SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION WITH COUNTDOWN TIMERS
		CONTROLLER CABINET
		SERVICE INSTALLATION
		TELEPHONE CONNECTION
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		VEHICLE DETECTOR, INDUCTION LOOP
		SIGNAL FACE WITH BACKPLATE
		RAILROAD CONTROL CABINET
		ILLUMINATED SIGN, FIBER OPTIC
		GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H) OR CONTROLLER (C)
		GROUND ROD AT POST (P) OR MAST ARM POLE (MA)
		GROUND ROD AT ELECTRIC SERVICE INSTALLATION
		GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)
		NO.62.5/125 MM 12F & SM 12F, FIBER OPTIC CABLE
		NO.62.5/125 MM 24F & SM 12F, FIBER OPTIC CABLE
		UNINTERRUPTIBLE POWER SUPPLY

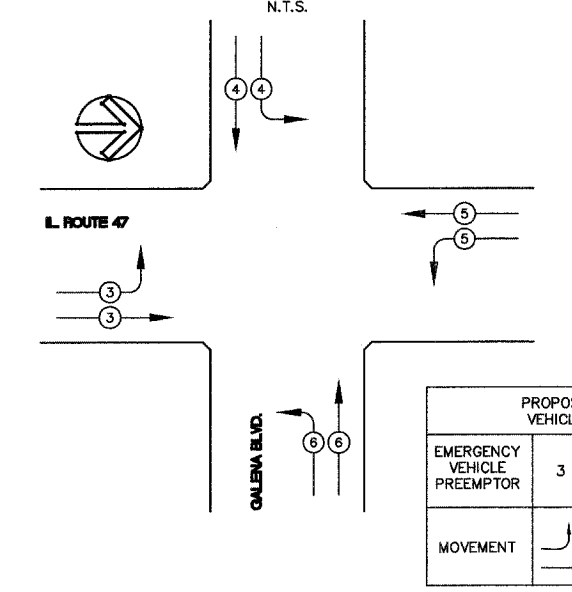
**CONTROLLER SEQUENCE**



**PHASE DESIGNATION DIAGRAM**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	2	3
B	4	5
C	6	7
D	8	1

**EMERGENCY VEHICLE PREEMPTION SEQUENCE**



PROPOSED EMERGENCY VEHICLE PREEMPTORS				
EMERGENCY VEHICLE PREEMPTOR	3	4	5	6
MOVEMENT				

REVISIONS	
NAME	DATE

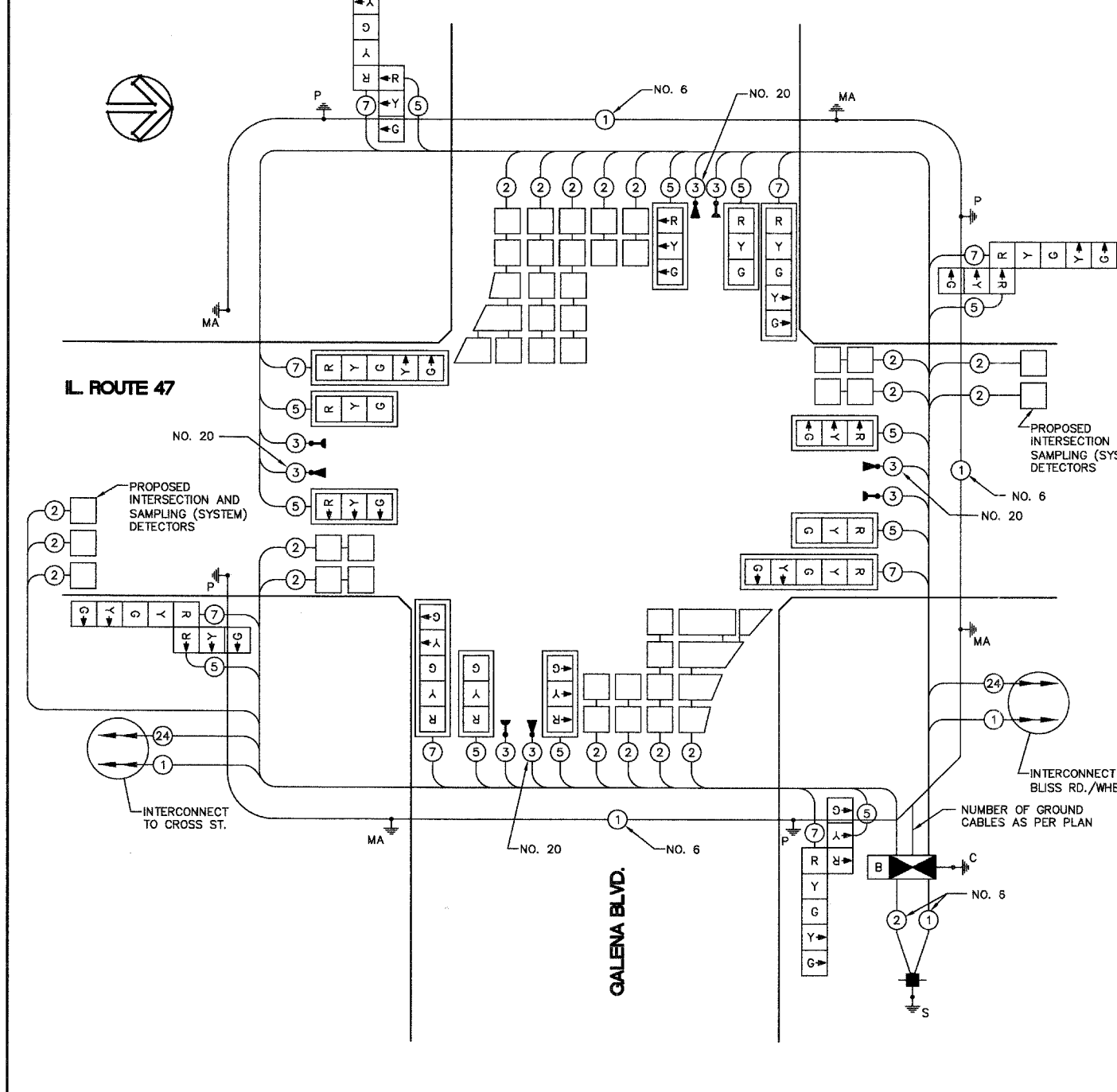
ILLINOIS DEPARTMENT OF TRANSPORTATION

**ILL RTE 47 AND GALENA BOULEVARD CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND SCHEDULE OF QUANTITIES**

SCALE: NTS  
DATE: 05/16/08

DRAWN BY: KKP  
CHECKED BY: TVW

**CABLE PLAN**  
N.T.S.



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

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	INCAND.	LED	% OPERATIONS	
SIGNAL (RED)	20	10	0.50	0.50	100
(YELLOW)	20	19	0.25	95	
(GREEN)	20	11	0.25	55	
ARROW	16	10	0.10	16	
CONTROLLER	1	100	1.00	100	
ILLUM. SIGN	-	-	-	0.05	
FLASHER	-	-	-	0.50	
TOTAL =					366

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.1)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'+L-2 =
E - M. ARM POLE	2 (0.6)	SIGNAL POST	2 (0.6)	(6.1+L-1.0)=	
36" (900mm)	15 (4.6)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
		FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
		ELECTRIC SERVICE	1 (0.5)	ELECTRIC SERVICE	13.5 (4.1)
		GROUND CABLE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
				POST MOUNTED	6 (1.8)

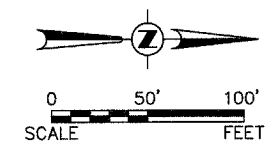
ENERGY COST - BILLED TO: VILLAGE OF SUGAR GROVE  
10 MUNICIPAL DRIVE  
SUGAR GROVE, IL 60554

ENERGY SUPPLY - CONTACT: MARK SCHERIBEL  
PHONE: 630-862-5160  
COMPANY: COMED

DATE	
BY	
PLAN	
NO.	
NOTE BOOK NO.	
DATE	
BY	
PROFILE	
NO.	
NOTE BOOK NO.	
DATE	
BY	
PROFILE	
NO.	
NOTE BOOK NO.	

**Engineering Enterprises, Inc.**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	06-00017-00-PV	KANE	232	131
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

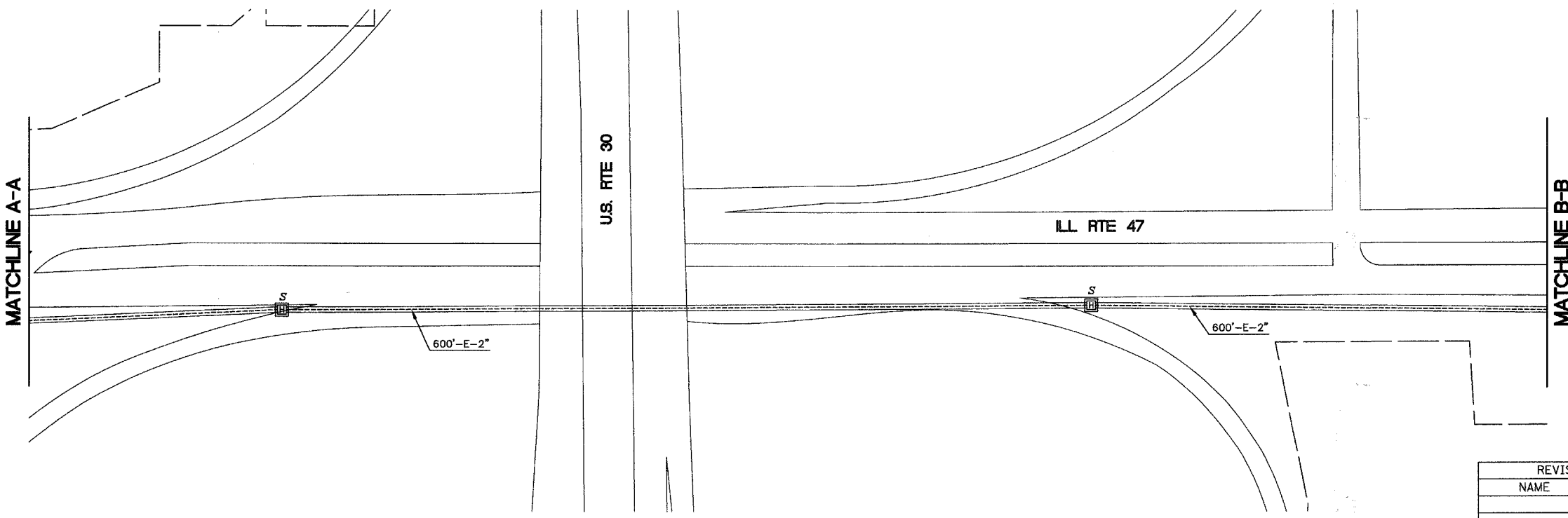
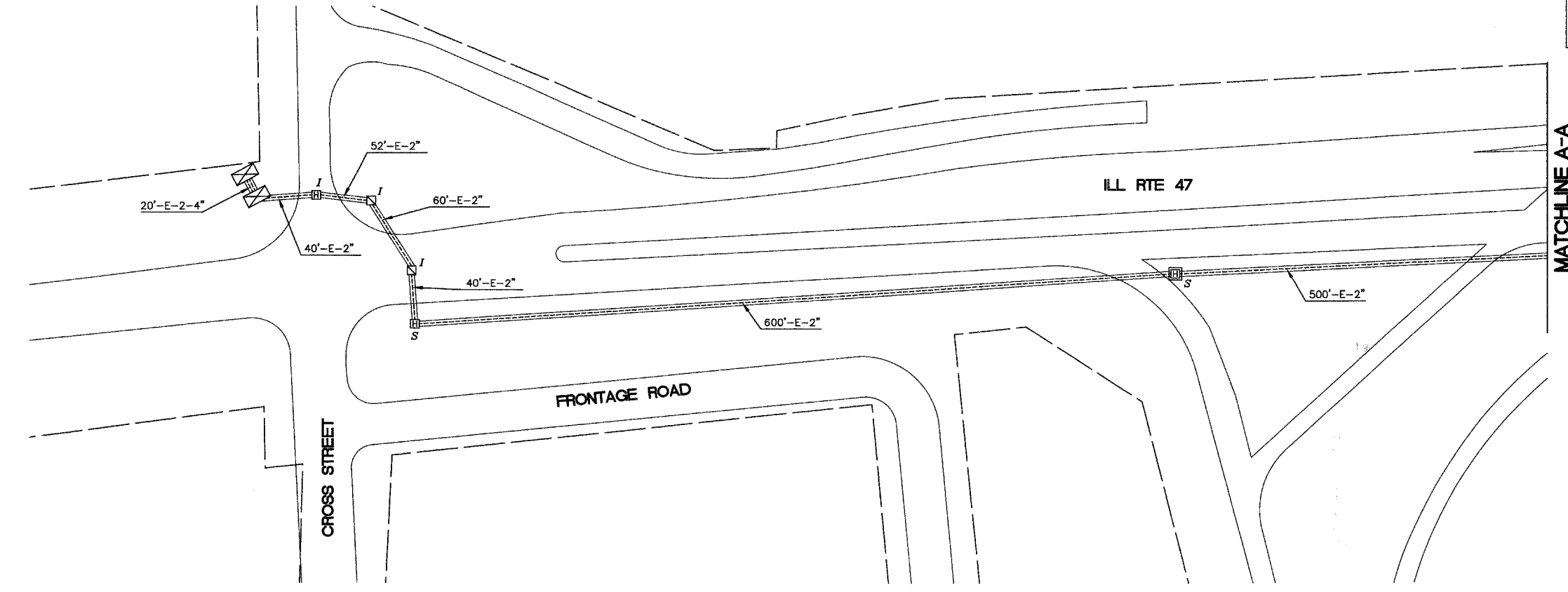


**INTERCONNECT PLAN LEGEND**

EXISTING	PROPOSED	
		CONTROLLER
		HANDHOLE
		DOUBLE HANDHOLE
		HEAVY-DUTY HANDHOLE
		G.S. CONDUIT IN TRENCH OR PUSHED
		DETECTOR LOOP
		COMMON TRENCH
		UNIT DUCT
		SYSTEM
		INTERSECTION
		TELEPHONE
		TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m MIN.)

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNMENT CHECKED	
	CONDUIT CHECKED	
	FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO.	



NOTE:  
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

REVISIONS	
NAME	DATE

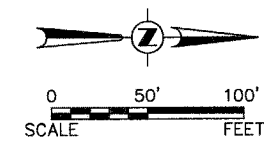
ILLINOIS DEPARTMENT OF TRANSPORTATION

**INTERCONNECT PLAN  
ILL RTE 47 FROM  
GALENA BOULEVARD TO  
BLISS RD./WHEELER RD.  
(1 OF 3)**

SCALE: 1" = 50'  
DATE: 05/16/08  
DRAWN BY: KKP  
CHECKED BY: TVW



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	06-00017-00-PV	KANE	232	132
STA.	TO STA.			
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

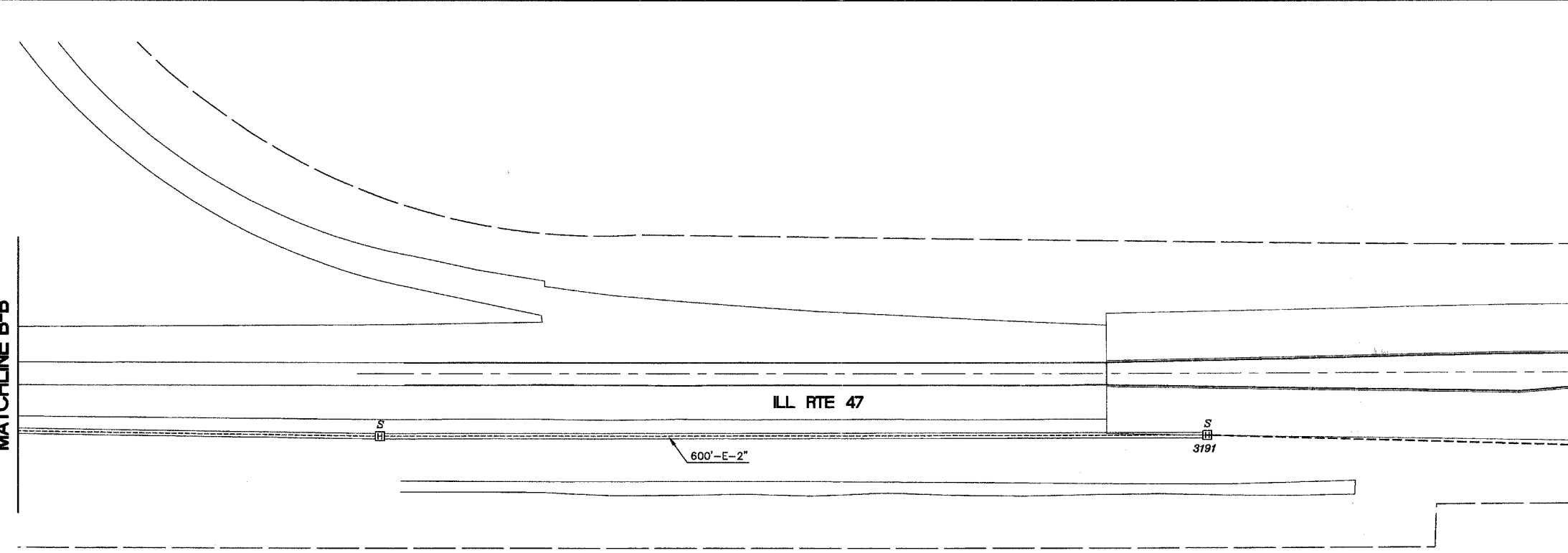


PLAN	DATE
NO.	
BY	
DATE	
NO.	
BY	
DATE	
NO.	
BY	
DATE	
NO.	

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

MATCHLINE B-B

MATCHLINE C-C

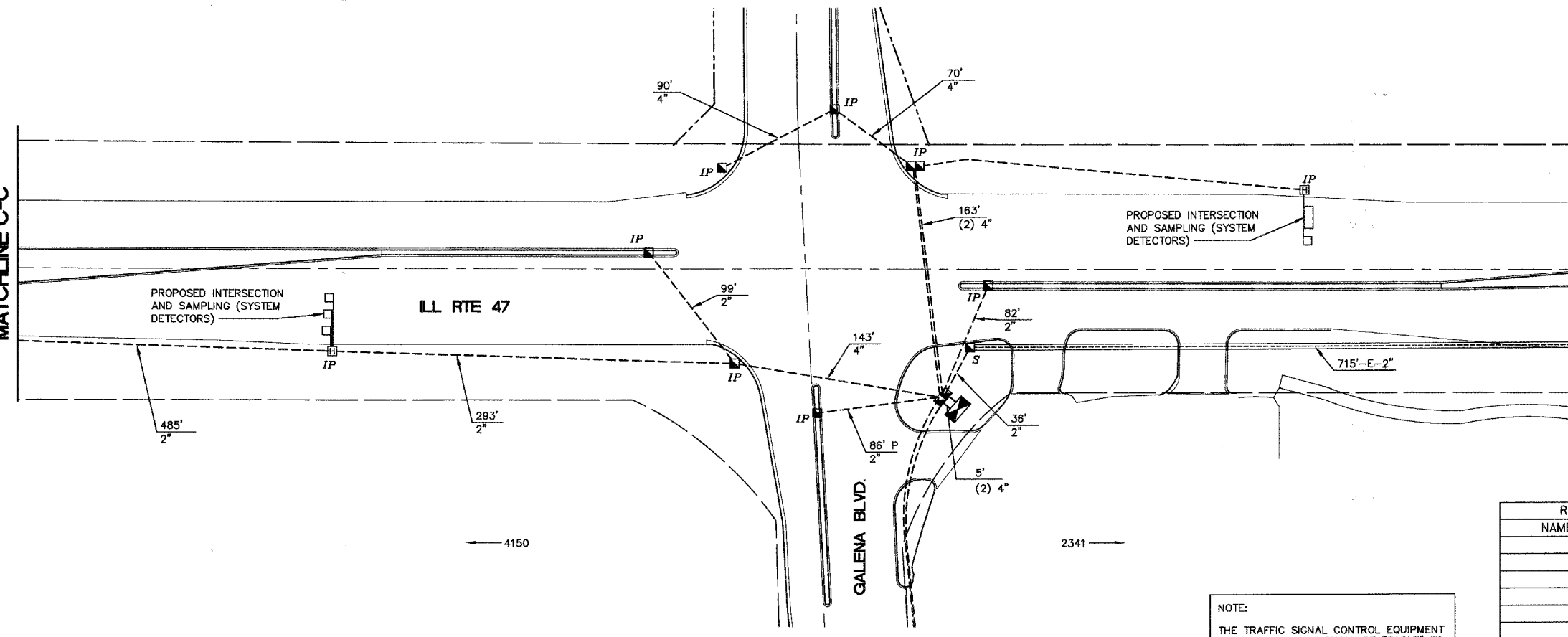


**INTERCONNECT PLAN LEGEND**

<b>EXISTING</b>	<b>PROPOSED</b>	
		CONTROLLER
		HANDHOLE
		DOUBLE HANDHOLE
		HEAVY-DUTY HANDHOLE
		G.S. CONDUIT IN TRENCH OR PUSHED
		DETECTOR LOOP
		COMMON TRENCH
		UNIT DUCT
		SYSTEM
		INTERSECTION
		TELEPHONE
		TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m MIN.)

MATCHLINE C-C

MATCHLINE D-D



PROPOSED INTERSECTION AND SAMPLING (SYSTEM DETECTORS)

NOTE:  
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**INTERCONNECT PLAN**  
ILL RTE 47 FROM  
GALENA BOULEVARD TO  
BLISS RD./WHEELER RD.  
(2 OF 3)

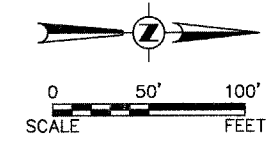
SCALE: 1" = 50'  
DATE: 05/16/08

DRAWN BY: KKP  
CHECKED BY: TVW





F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	06-00017-00-PV	KANE	232	133
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



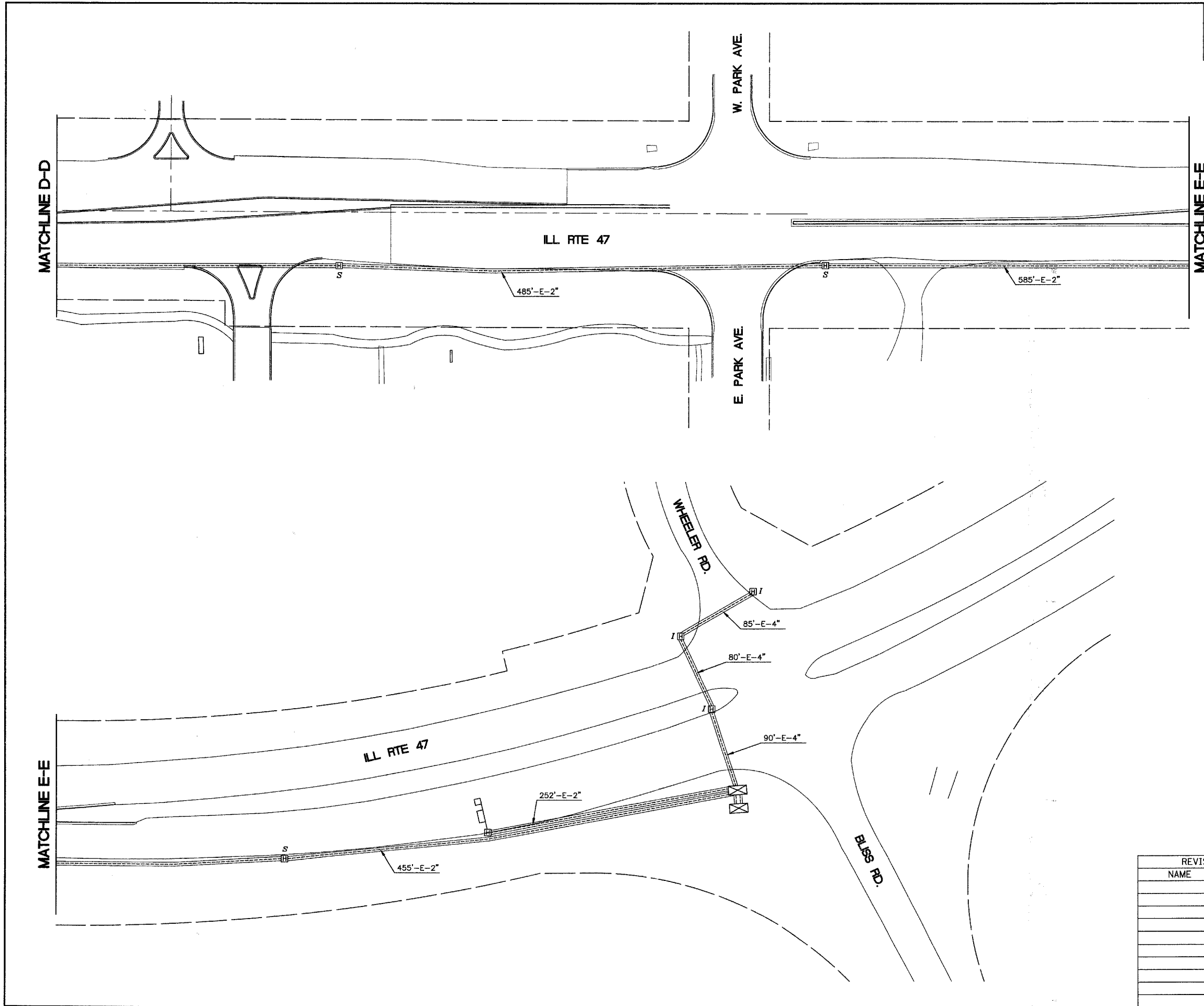
**INTERCONNECT PLAN LEGEND**

EXISTING	PROPOSED	
		CONTROLLER
		HANDHOLE
		DOUBLE HANDHOLE
		HEAVY-DUTY HANDHOLE
		G.S. CONDUIT IN TRENCH OR PUSHED
		DETECTOR LOOP
		COMMON TRENCH
		UNIT DUCT
		SYSTEM
		INTERSECTION
		TELEPHONE
		TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m MIN.)

NOTE:  
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

PLAN	DATE
NO.	
BY	
REVISIONS	
DATE	
BY	
NO.	
DESCRIPTION	

PROFILE	DATE
NO.	
BY	
REVISIONS	
DATE	
BY	
NO.	
DESCRIPTION	



REVISIONS	
NAME	DATE

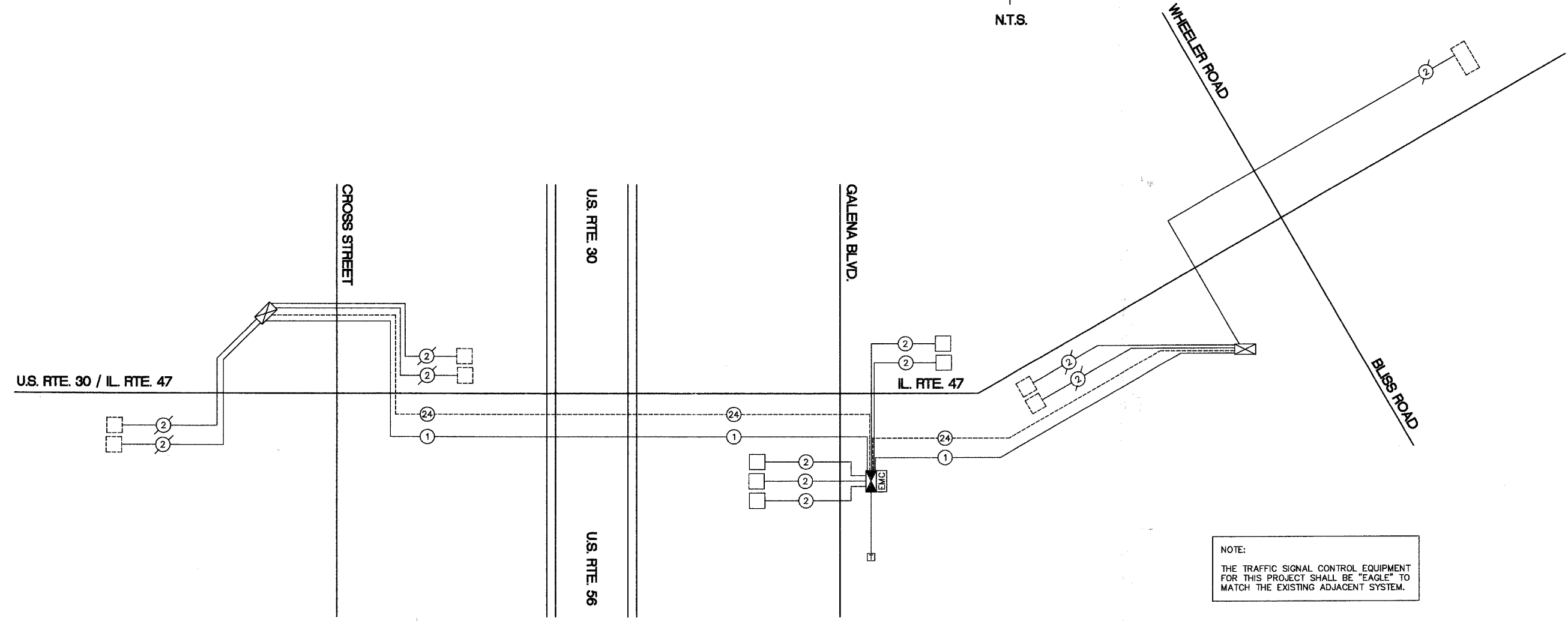
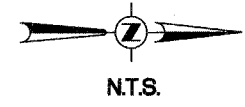
ILLINOIS DEPARTMENT OF TRANSPORTATION

**INTERCONNECT PLAN  
ILL RTE 47 FROM  
GALENA BOULEVARD TO  
BLISS RD./WHEELER RD.  
(3 OF 3)**

SCALE: 1" = 50'  
DATE: 05/16/08

DRAWN BY: KKP  
CHECKED BY: TVW

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	D6-00017-00-PV	KANE	232	134
STA.		TO STA.		
FED. ROAD DIST. NO. -		ILLINOIS	FED. AID PROJECT	



NOTE:  
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

**INTERCONNECT SCHEMATIC LEGEND**

- |  |   |  |   |
|--|---|--|---|
|  | PROPOSED INTERSECTION CONTROLLER  |  | PROPOSED INTERCONNECT CABLE - NO.62.5/1256<br>12F - FIBER OPTIC CABLE |
|  | EXISTING INTERSECTION CONTROLLER  |  | EXISTING INTERCONNECT CABLE - NO.62.5/1256<br>12F - FIBER OPTIC CABLE |
|  | PROPOSED MASTER CONTROLLER  |  | PROPOSED INTERCONNECT CABLE - NO.18<br>3 PAIR TWISTED, SHIELDED       |
|  | EXISTING MASTER CONTROLLER  |  | EXISTING INTERCONNECT CABLE - NO.18<br>3 PAIR TWISTED, SHIELDED       |
|  | MASTER MASTER CONTROLLER  |  | PROPOSED LOOP DETECTOR CABLE - 2/C TWISTED, SHIELDED                  |
|  | PROPOSED INTERSECTION & SAMPLING (SYSTEM) DETECTOR                                  |  | EXISTING LOOP DETECTOR CABLE - 2/C TWISTED, SHIELDED                  |
|  | EXISTING INTERSECTION & SAMPLING (SYSTEM) DETECTOR                                  |  | PROPOSED TRACER CABLE NO. 14 1/C                                      |
|  | EXISTING INTERSECTION DETECTOR AND PROPOSED SAMPLING (SYSTEM) DETECTOR              |  | EXISTING TRACER CABLE NO. 14 1/C                                      |
|  | EXISTING SAMPLING (SYSTEM) DETECTOR   |  | PROPOSED TELEPHONE CONNECTION   |
|  | PROPOSED SAMPLING (SYSTEM) DETECTOR   |  | EXISTING TELEPHONE CONNECTION   |
|  | PROPOSED INTERCONNECT CABLE - NO.62.5/1256<br>2 MM 12F & SM 12F - FIBER OPTIC CABLE |  | DOME P.T.Z. CAMERA  |
|  | EXISTING INTERCONNECT CABLE - NO.62.5/1256<br>2 MM 12F & SM 12F - FIBER OPTIC CABLE |  |   |

**INTERCONNECT SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM DESCRIPTION
6491	FOOT	FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 MM12F SM 12F
6491	FOOT	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C
5432	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	L SUM	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**INTERCONNECT SCHEMATIC AND INTERCONNECT QUANTITIES**  
U.S. RTE. 30/IL. RTE. 47 FROM  
CROSS ST. TO BLISS RD./WHEELER RD.

SCALE: NTS  
DATE: 05/16/08

DRAWN BY: KKP  
CHECKED BY: TVW

PLAN	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	
	ALIGNMENT CHECKED	
	GRADE CHECKED	
	STRUCTURE NOTATIONS OK'D	

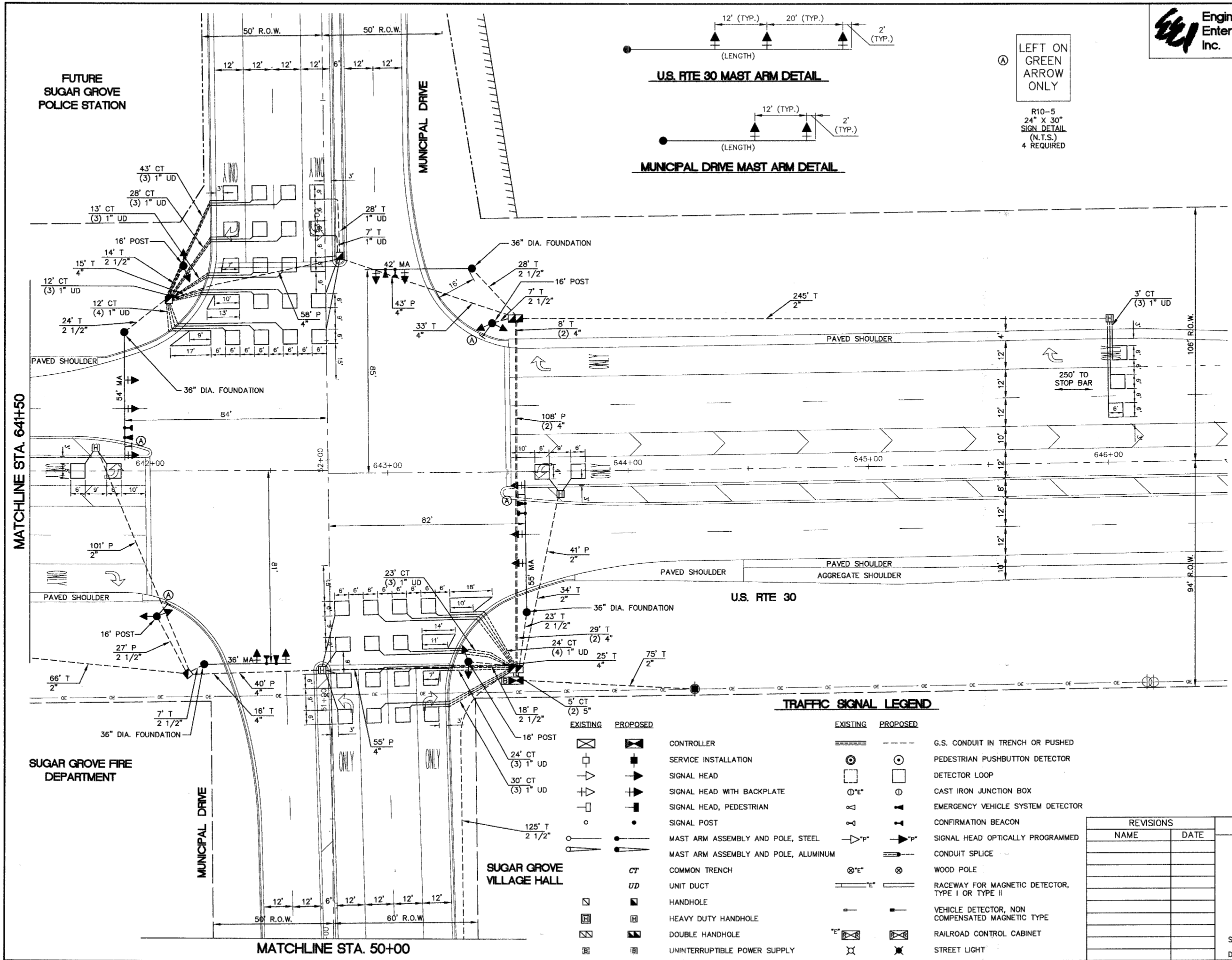
PROFILE	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	
	ALIGNMENT CHECKED	
	GRADE CHECKED	
	STRUCTURE NOTATIONS OK'D	

**Engineering Enterprises, Inc.**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	D6-00017-00-PV	KANE	232	135
STA. 641+50		TO STA. 646+00		
FED. ROAD DIST. NO. _		ILLINOIS FED. AID PROJECT		

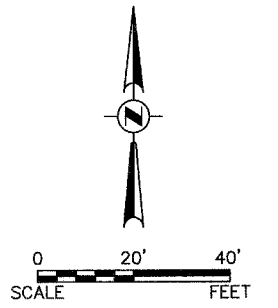
DATE	BY

DATE	BY



LEFT ON GREEN ARROW ONLY

R10-5  
24" X 30"  
SIGN DETAIL  
(N.T.S.)  
4 REQUIRED



**RESTORATION OF WORK AREA.**  
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

- NOTES:
- STOP BARS ON U.S. RTE 30 TO BE INSTALLED CONCURRENTLY WITH SIGNAL TURN ON.
  - CHANGEABLE MESSAGE SIGNS WILL BE REQUIRED FOR BOTH DIRECTIONS OF U.S. RTE. 30 IN ADVANCE OF THE INTERSECTION ONE WEEK BEFORE AND ONE WEEK AFTER THE TURN ON THE TRAFFIC SIGNAL.

**TRAFFIC SIGNAL LEGEND**

EXISTING	PROPOSED	EXISTING	PROPOSED

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**U.S. RTE 30 AND MUNICIPAL DRIVE TRAFFIC SIGNAL INSTALLATION PLAN**

SCALE: 1" = 20'  
DATE: 05/16/08

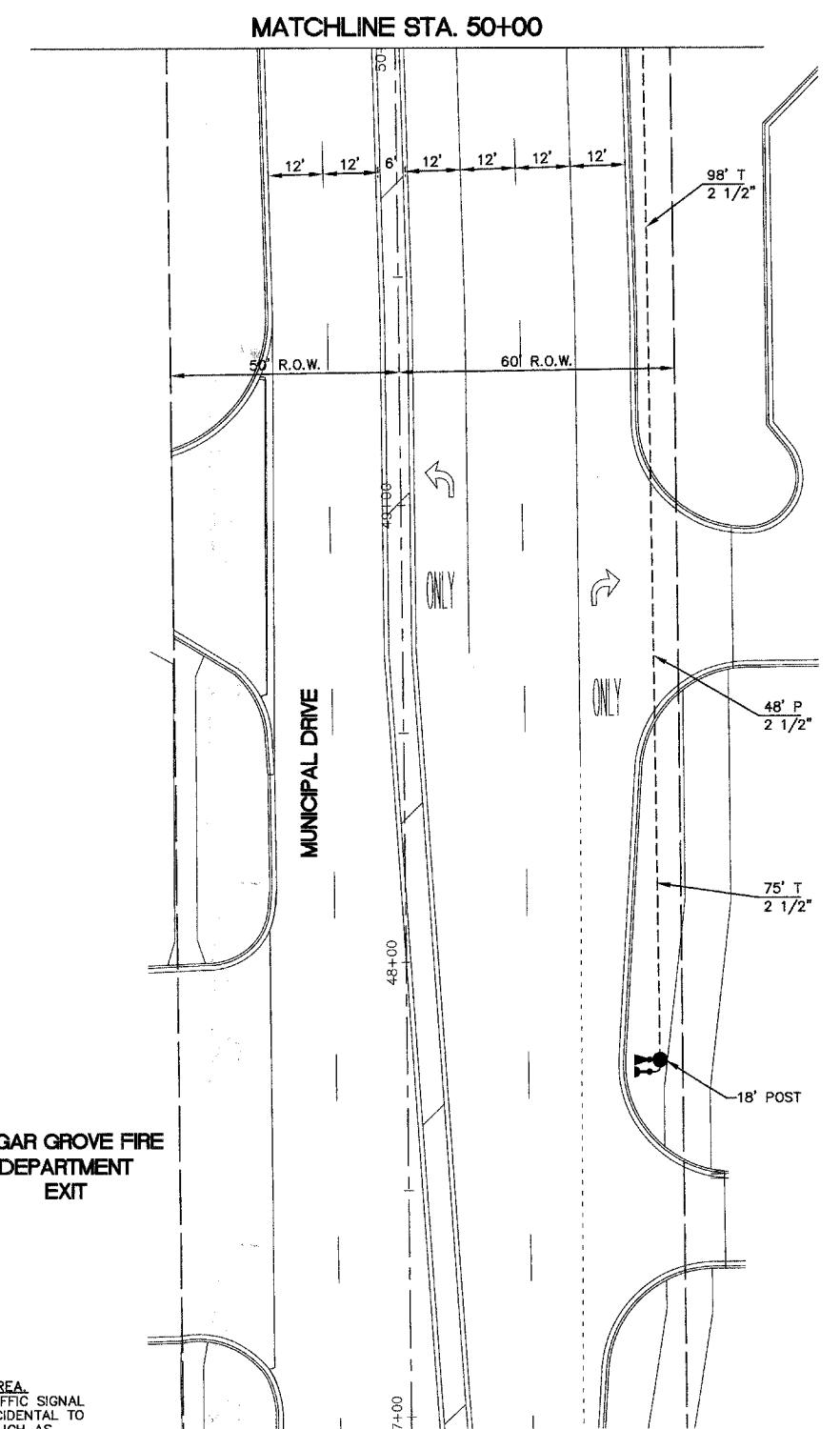
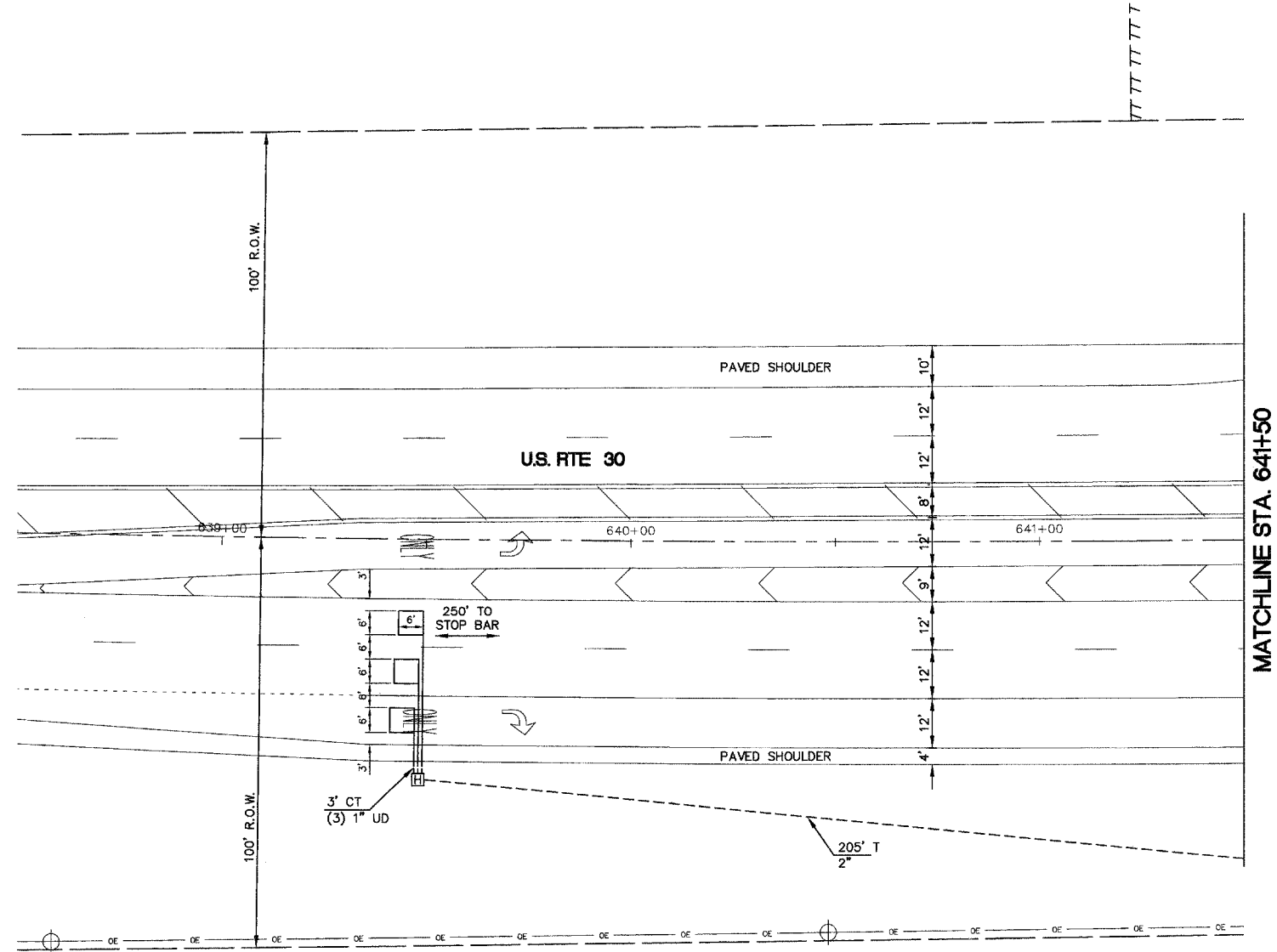
DRAWN BY: KKP  
CHECKED BY: TWV



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	D6-00017-00-PV	KANE	232	136
STA. 639+00		TO STA. 641+50		
FED. ROAD DIST. NO. _		ILLINOIS		FED. AID PROJECT

PLAN	DATE
SURVEYED	
PLOTTED	
ALIGNMENT CHECKED	
AS BUILT CHECKED	
CADD FILE NAME	
NO.	

PROFILE	DATE
SURVEYED	
PLOTTED	
GRADES CHECKED	
STRUCTURE NOTATIONS CHECKED	
NO.	



**TRAFFIC SIGNAL LEGEND**

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

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**U.S. RTE 30 AND MUNICIPAL DRIVE TRAFFIC SIGNAL INSTALLATION PLAN**

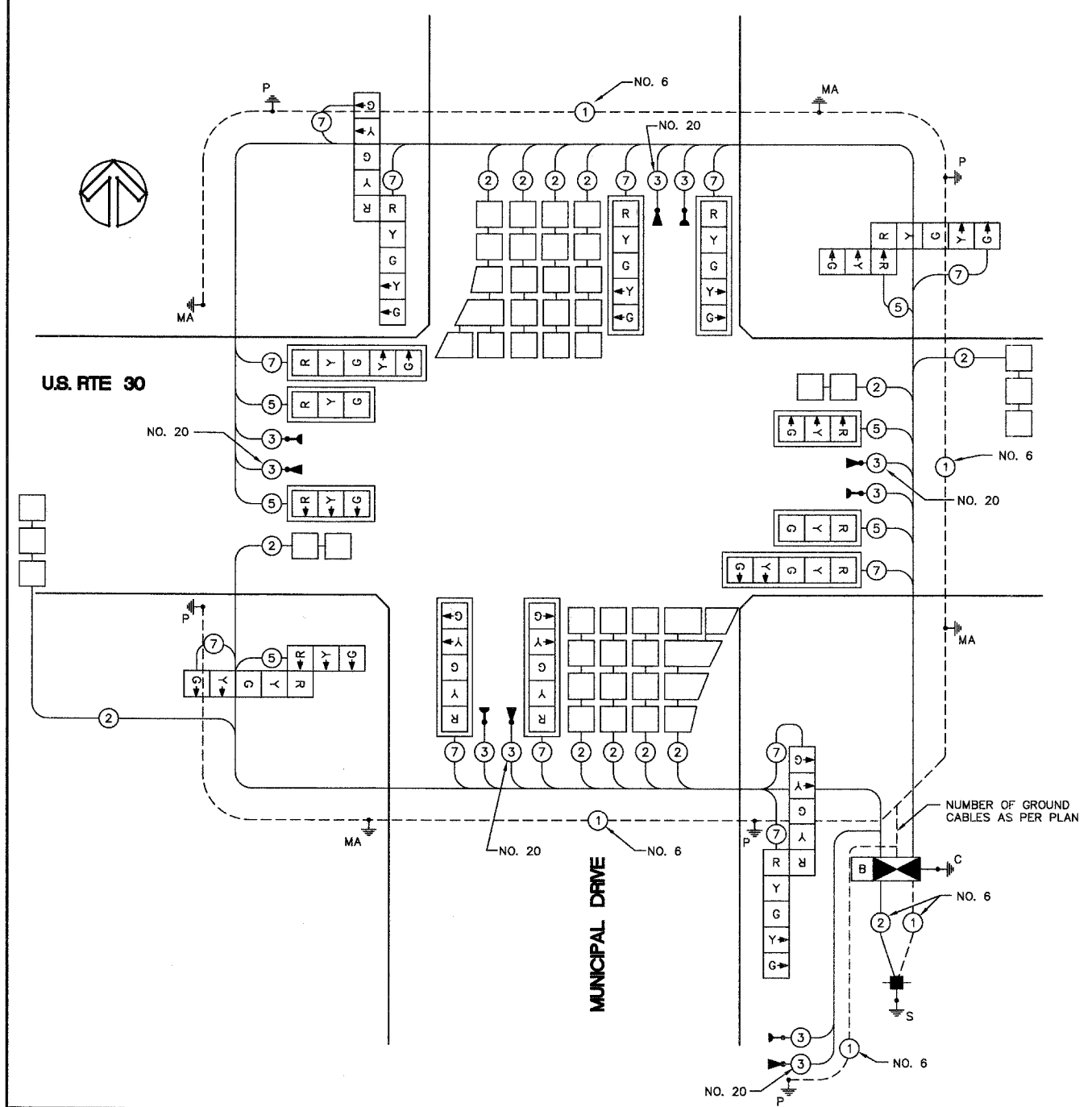
SCALE: 1" = 20'  
DATE: 05/16/08

DRAWN BY: KKP  
CHECKED BY: TVW



F.A. SECTION COUNTY TOTAL SHEETS SHEET NO.	N/A 06-00017-00-PV KANE 232 137
STA. TO STA.	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

**CABLE PLAN**  
N.T.S.



**CABLE PLAN LEGEND**

EXISTING	PROPOSED	DESCRIPTION	QUANTITY	UNIT	ITEM DESCRIPTION
		8" (200mm) TRAFFIC SIGNAL SECTION			
		12" (300mm) TRAFFIC SIGNAL SECTION	1	CAL MO	CHANGEABLE MESSAGE SIGN
		12" (300mm) PEDESTRIAN SIGNAL SECTION	53	SQ FT	SIGN PANEL - TYPE 1
		12" (300mm) PEDESTRIAN SIGNAL SECTION WITH COUNTDOWN TIMERS	1	EACH	SERVICE INSTALLATION - POLE MOUNTED
		CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	632	FOOT	CONDUIT IN TRENCH, 2-1/2" DIA., GALVANIZED STEEL
		CONDUIT IN TRENCH, 2-1/2" DIA., GALVANIZED STEEL	419	FOOT	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL
		CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	74	FOOT	CONDUIT IN TRENCH, 5" DIA., GALVANIZED STEEL
		CONDUIT IN TRENCH, 5" DIA., GALVANIZED STEEL	17	FOOT	CONDUIT, PUSHED 2" DIA., GALVANIZED STEEL
		CONTROLLER CABINET	142	FOOT	CONDUIT, PUSHED 2-1/2" DIA., GALVANIZED STEEL
		SERVICE INSTALLATION	111	FOOT	CONDUIT, PUSHED 4" DIA., GALVANIZED STEEL
		TELEPHONE CONNECTION	495	FOOT	HANDHOLE
		MAGNETIC DETECTOR	3	EACH	HEAVY-DUTY HANDHOLE
		EMERGENCY VEHICLE LIGHT DETECTOR	2	EACH	DOUBLE HANDHOLE
		CONFIRMATION BEACON	1346	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
		PUSHBUTTON DETECTOR	1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET
		VEHICLE DETECTOR, INDUCTION LOOP	1172	FOOT	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C
		SIGNAL FACE WITH BACKPLATE	1272	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
		RAILROAD CONTROL CABINET	1488	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
		ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"	2807	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
		ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"	3354	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
		GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H) OR CONTROLLER (C)	98	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C
		GROUND ROD AT POST (P) OR MAST ARM POLE (MA)	1446	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 20 3/C, TWISTED, SHIELDED
		GROUND ROD AT ELECTRIC SERVICE INSTALLATION	4	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.
		GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)	1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.
		NO.62.5/125 MM 12F & SM 12F, FIBER OPTIC CABLE	1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.
		NO.62.5/125 MM 24F & SM 12F, FIBER OPTIC CABLE	1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.
		UNINTERRUPTIBLE POWER SUPPLY	1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 54 FT.
		GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H) OR CONTROLLER (C)	1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 55 FT.
		GROUND ROD AT POST (P) OR MAST ARM POLE (MA)	20	FOOT	CONCRETE FOUNDATION, TYPE A
		GROUND ROD AT ELECTRIC SERVICE INSTALLATION	4	FOOT	CONCRETE FOUNDATION, TYPE C
		NO.62.5/125 MM 12F & SM 12F, FIBER OPTIC CABLE	60	FOOT	CONCRETE FOUNDATION, TYPE E 3/8-INCH DIAMETER
		NO.62.5/125 MM 24F & SM 12F, FIBER OPTIC CABLE	4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
		UNINTERRUPTIBLE POWER SUPPLY	6	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
		GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H) OR CONTROLLER (C)	2	EACH	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED
		GROUND ROD AT POST (P) OR MAST ARM POLE (MA)	2	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
		GROUND ROD AT ELECTRIC SERVICE INSTALLATION	10	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
		NO.62.5/125 MM 12F & SM 12F, FIBER OPTIC CABLE	12	EACH	INDUCTIVE LOOP DETECTOR
		NO.62.5/125 MM 24F & SM 12F, FIBER OPTIC CABLE	2069	FOOT	DETECTOR LOOP, TYPE I
		UNINTERRUPTIBLE POWER SUPPLY	5	EACH	LIGHT DETECTOR
		GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H) OR CONTROLLER (C)	2	EACH	LIGHT DETECTOR AMPLIFIER
		GROUND ROD AT POST (P) OR MAST ARM POLE (MA)	1	EACH	UNINTERRUPTIBLE POWER SUPPLY

**SCHEDULE OF QUANTITIES**

DATE	BY

DATE	BY

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	INCAND.	LED	% OPERATIONS	
SIGNAL (RED)	18		10	0.50	90
(YELLOW)	18		19	0.25	86
(GREEN)	18		11	0.10	50
ARROW	24		10	0.10	24
PED. SIGNAL	0		7	1.00	0
CONTROLLER	1		100	1.00	100
ILLUM. SIGN	-			0.05	
FLASHER				0.50	
TOTAL =					350
ENERGY COST -	BILLED TO: VILLAGE OF SUGAR GROVE (ADDRESS) 10 MUNICIPAL DRIVE SUGAR GROVE, IL 60554				
ENERGY SUPPLY -	CONTACT: MARK SCHERIBEL 630-862-5160				
PHONE:	COMPANY: COMED				

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.1)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'+L-2 =
E - M ARM POLE		SIGNAL POST	2 (1.0)		(6.1+L-1.0)=
36" (900mm)	15 (4.6)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
		FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
		ELECTRIC SERVICE	1 (0.5)	ELECTRIC SERVICE	13.5 (4.1)
		GROUND CABLE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
				POST MOUNTED	6 (1.8)

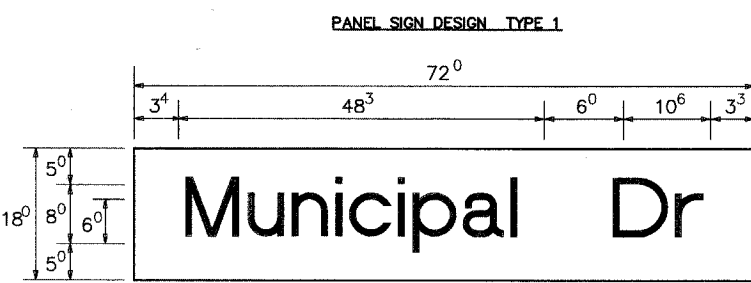
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION	
NAME	DATE		
		<b>U.S. RTE 30 AND MUNICIPAL DRIVE CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND SCHEDULE OF QUANTITIES</b>	
		SCALE: NTS	DRAWN BY: KKP
		DATE: 05/16/08	CHECKED BY: TVW



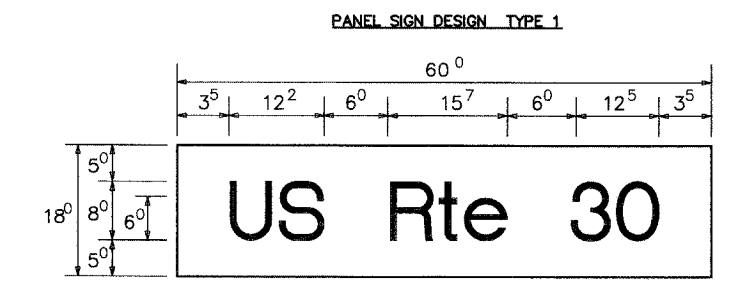
Upper Case To Lower Case EXAMPLE, 2<sup>3</sup> DENOTES  $\frac{3}{8}$   
Spacing Chart 8-6 Inch Series "C & D"

UPPER AND LOWER CASE LETTER WIDTHS

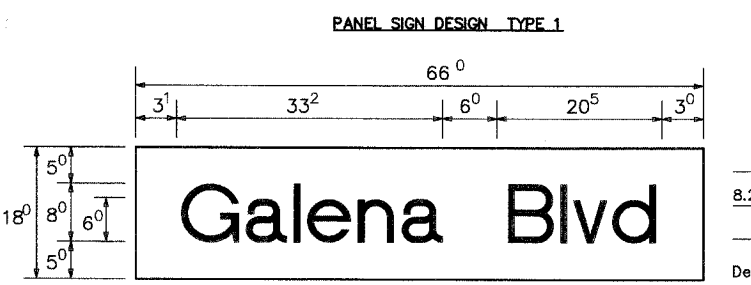
LETTERS	6 INCH UPPER CASE LETTERS		8 INCH UPPER CASE LETTERS		6 INCH LOWER CASE LETTERS	
	SERIES		SERIES		SERIES	
	C	D	C	D	C	D
A	3 <sup>6</sup>	5 <sup>0</sup>	5 <sup>0</sup>	6 <sup>5</sup>	a	3 <sup>5</sup>
B	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	b	3 <sup>5</sup>
C	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	c	3 <sup>5</sup>
D	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	d	3 <sup>5</sup>
E	3 <sup>0</sup>	3 <sup>5</sup>	4 <sup>0</sup>	4 <sup>7</sup>	e	3 <sup>5</sup>
F	3 <sup>0</sup>	3 <sup>5</sup>	4 <sup>0</sup>	4 <sup>7</sup>	f	2 <sup>3</sup>
G	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	g	3 <sup>5</sup>
H	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	h	3 <sup>5</sup>
I	0 <sup>7</sup>	0 <sup>7</sup>	1 <sup>1</sup>	1 <sup>2</sup>	i	1 <sup>1</sup>
J	3 <sup>0</sup>	3 <sup>6</sup>	4 <sup>0</sup>	5 <sup>0</sup>	j	2 <sup>0</sup>
K	3 <sup>2</sup>	4 <sup>1</sup>	4 <sup>3</sup>	5 <sup>4</sup>	k	3 <sup>5</sup>
L	3 <sup>0</sup>	3 <sup>5</sup>	4 <sup>0</sup>	4 <sup>7</sup>	l	1 <sup>1</sup>
M	3 <sup>7</sup>	4 <sup>5</sup>	5 <sup>1</sup>	6 <sup>1</sup>	m	6 <sup>0</sup>
N	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	n	3 <sup>5</sup>
O	3 <sup>4</sup>	4 <sup>2</sup>	4 <sup>5</sup>	5 <sup>5</sup>	o	3 <sup>6</sup>
P	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	p	3 <sup>5</sup>
Q	3 <sup>4</sup>	4 <sup>2</sup>	4 <sup>5</sup>	5 <sup>5</sup>	q	3 <sup>5</sup>
R	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	r	2 <sup>6</sup>
S	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	s	3 <sup>6</sup>
T	3 <sup>0</sup>	3 <sup>5</sup>	4 <sup>0</sup>	4 <sup>7</sup>	t	2 <sup>7</sup>
U	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	u	3 <sup>5</sup>
V	3 <sup>5</sup>	4 <sup>4</sup>	4 <sup>7</sup>	6 <sup>0</sup>	v	4 <sup>2</sup>
W	4 <sup>4</sup>	5 <sup>2</sup>	6 <sup>0</sup>	7 <sup>0</sup>	w	5 <sup>5</sup>
X	3 <sup>4</sup>	4 <sup>0</sup>	4 <sup>5</sup>	5 <sup>3</sup>	x	4 <sup>4</sup>
Y	3 <sup>6</sup>	5 <sup>0</sup>	5 <sup>0</sup>	6 <sup>6</sup>	y	4 <sup>6</sup>
Z	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	z	3 <sup>6</sup>



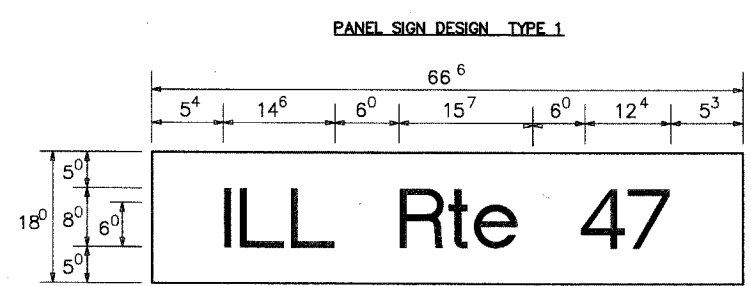
Sq. M. each  
9.0 Sq. Ft. each  
2 Required  
Design Series D



Sq. M. each  
7.5 Sq. Ft. each  
2 Required  
Design Series D

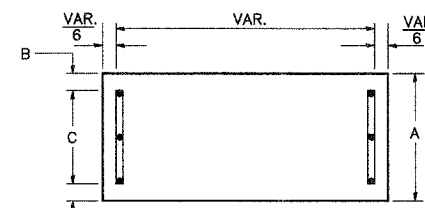


Sq. M. each  
8.25 Sq. Ft. each  
2 Required  
Design Series D

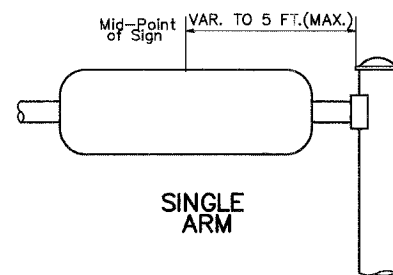


Sq. M. each  
8.25 Sq. Ft. each  
2 Required  
Design Series D

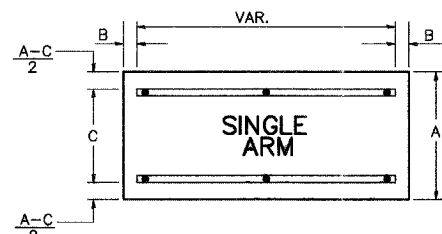
SUPPORTING CHANNELS



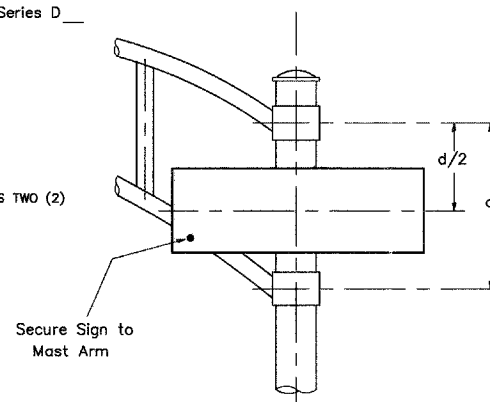
A	B	C
18"	2"	14"



SUPPORTING CHANNELS



A	B	C
18"	2"	12"
30"	2"	22"



DUAL ARM

SIGNIFIX ALUMINUM CHANNEL FRAMING SYSTEM

Shall be used. See Note #5.

SECOND LETTER

SERIES	a c d e		g o q		b h k l		m n p r		f w		j		s t		v y		x		z	
	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
A W X	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>0</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>7</sup>
B	1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>5</sup>
C E G	1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>
D O Q R	1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>4</sup>	1 <sup>5</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>
F	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>4</sup>	1 <sup>5</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>
H I M N	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>2</sup>	2 <sup>4</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>
J U	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>
K L	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>
P	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>
S	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>
T	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>6</sup>	1 <sup>7</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>
V	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>
Y	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>4</sup>	1 <sup>5</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>5</sup>	0 <sup>7</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>
Z	1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>2</sup>	2 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>

Lower Case To Lower Case  
Spacing Chart 6 Inch Series "C & D"

SECOND LETTER

SERIES	a c d e		g o q		b h k l		m n p r		f w		j		s t		v y		x		z	
	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
ad h g i j	1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>2</sup>	2 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>
l m n q u	1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>2</sup>	2 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>
b f k o p s	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>
c e	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>
r	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>3</sup>	0 <sup>3</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>5</sup>	0 <sup>6</sup>
t z	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>
v y	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>
w	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>
x	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>

Number To Number  
Spacing Chart 8 Inch Series "C & D"

SECOND NUMBER

SERIES	0		1		2		3		4		5		6		7		8		9	
	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
0 9	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>
1	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>
2 3 4	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>
5	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>
6	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>
7	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>
8	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>											

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00017-00-PV	KANE	232	140

## SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	QUANTITY
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1
80400200	ELECTRIC UTILITY SERVICE CONNECTION	L. SUM	1
81000800	CONDUIT IN TRENCH, 3" DIA GALVANIZED STEEL	FOOT	240
81018900	CONDUIT PUSHED, 4" DIA GALVANIZED STEEL	FOOT	306
81701345	ELECTRIC CABLE IN CONDUIT 600 V (EPR-TYPE USE-2) 3-1/C NO. 3/0	FOOT	280
81800320	AERIAL CABLE, 3-1/C NO.4 WITH MESSENGER WIRE	FOOT	800
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	500
82102310	LUMINAIRE, SODIUM VAPOR HORIZONTAL MOUNT, 310 WATT	EACH	4
82102400	LUMINAIRE, SODIUM VAPOR HORIZONTAL MOUNT, 400 WATT	EACH	22
82500505	LIGHTING CONTROL, SPECIAL	EACH	1
83050760	LIGHT POLE, ALUMINUM, 47'-6" FT MH, 8 FT MAST ARM	EACH	8
83050800	LIGHT POLE, ALUMINUM, 47'-6" FT MH, 12 FT MAST ARM	EACH	14
83100200	TEMPORARY WOOD POLE 40 FOOT, CLASS 4	EACH	2
83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	180
83600215	LIGHT POLE FOUNDATION, 24" DIAMETER, OFFSET	FOOT	40
83800205	BREAKAWAY DEVICE TRANSFORMER BASE 15" BOLT CIRCLE	EACH	22
84100110	REMOVAL OF TEMPORARY LIGHTING UNITS	EACH	2
84200500	REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE	EACH	2
84200600	REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE	EACH	6
84200705	LIGHTING FOUNDATION REMOVAL, PARTIAL	EACH	7
84500110	REMOVAL OF LIGHTING CONTROLLER	EACH	1
84500120	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	1
84500130	REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	1
	TEMPORARY LUMINAIRE, SODIUM VAPOR HORIZONTAL MOUNT, 310 WATT WITH PHOTOCELL CONTROL	EACH	4
	TEMPORARY LUMINAIRE, SODIUM VAPOR HORIZONTAL MOUNT, 400 WATT WITH PHOTOCELL CONTROL	EACH	4
	POLYETHYLENE DUCT BORED AND PULLED, 1/4" DIA WITH ELECTRIC CABLE 600V (EPR TYPE RHW), 3-1/C NO. 6 AND 1/C NO. 6 GROUND	FOOT	5,350
X0323574	MAINTENANCE OF LIGHTING SYSTEMS	CAL MO	4

## 1. EXISTING LIGHTING

1.1 THE CONTRACTOR SHALL CONDUCT AN INSPECTION OF THE EXISTING LIGHTING SYSTEM WITH THE STATE ELECTRIC MAINTENANCE CONTRACTOR AT NO COST AND PRIOR TO ANY CONSTRUCTION AS SPECIFIED IN THE STANDARD SPECIFICATIONS AND DIRECTED BY THE ENGINEER.

1.2 THE CONTRACTOR SHALL TAKE OVER MAINTENANCE OF THE EXISTING LIGHTING SYSTEM FROM THE STATE ELECTRIC CONTRACTOR AS SPECIFIED IN THE STANDARD SPECIFICATIONS AND DIRECTED BY THE ENGINEER.

1.3 THE CONTRACTOR SHALL GIVE IN WRITING TO THE ENGINEER A SCHEDULE OF WORK FOR THE LIGHTING IMPROVEMENT AND OBTAIN WRITTEN APPROVAL FROM THE ENGINEER AS SPECIFIED IN THE STANDARD SPECIFICATIONS.

1.4 THE LIGHTING SYSTEM SHALL REMAIN IN OPERATION DURING NIGHT HOURS FROM DUSK TO DAWN AS SPECIFIED IN THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.

## 2. SALVAGED MATERIAL:

2.2 THE SALVAGED MATERIALS- EXISTING LIGHT POLE WITH MAST ARM, IDENTIFIED DURING INITIAL INSPECTION WITH STATE MAINTENANCE CONTRACTOR SHALL BE DELIVERED TO THE STATE STORAGE YARD AS SPECIFIED IN THE SPECIAL PROVISIONS AND AS DIRECTED BY THE ENGINEER.

## 3. TEMPORARY LIGHTING

3.1 THE CONTRACTOR SHALL UTILIZE THE EXISTING LIGHTING CONTROLLER "KV" FOR THE TEMPORARY LIGHTING CIRCUITS.

3.2 THE CONTRACTOR SHALL INSTALL MAST ARM WITH LUMINAIRES ON THE TEMPORARY TRAFFIC SIGNAL WOOD POLE AND AERIAL CABLE CIRCUIT AS SHOWN ON THE PROJECT DRAWING AND AS DIRECTED BY THE A ENGINEER.

3.3 THE CONTRACTOR SHALL INSTALL A TEMPORARY WOOD POLE BETWEEN THE EXISTING LIGHTING CONTROLLER AND TEMPORARY TRAFFIC WOOD POLE TO CARRY THE ELECTRICAL POWER AS SHOWN ON THE PROJECT DRAWINGS AND AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL KEEP MINIMUM 30 FT CLEARANCE BETWEEN AERIAL CIRCUIT CABLE SAG AND GROUND LINE.

3.4 THE CONTRACTOR SHALL CONNECT AERIAL CIRCUITS WITH LIGHTING CONTROLLER "KV" CIRCUIT BREAKERS AND ENERGIZE TEMPORARY LIGHTING SYSTEM AS SHOWN ON THE PROJECT DRAWING AND AS DIRECTED BY THE ENGINEER.

3.5 THE TEMPORARY LIGHTING SYSTEM SHALL REMAIN IN OPERATION DURING NIGHT HOURS FROM DUSK TO DAWN AS SPECIFIED IN THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER AND UNTIL THE PERMANENT LIGHTING IS COMMISSIONED.

3.6 THE CONTRACTOR SHALL REMOVE THE TEMPORARY LIGHTING ONLY AFTER WRITTEN APPROVAL FROM THE ENGINEER. THE EXISTING LIGHTING CONTROLLER "KV" SHALL BE REMOVED AND NO SALVAGE OR SALVAGED AND DELIVERED TO THE STATE STORAGE YARD IN DISTRICT #1 AS DIRECTED BY THE ENGINEER.

## CAUTION

"THE CONTRACTOR SHALL VERIFY THAT THERE ARE NO CONFLICTS BETWEEN THE PROPOSED LIGHT POLE FOUNDATION LOCATIONS AND EXISTING UTILITIES, PROPOSED UTILITIES, EXISTING DRIVEWAYS, AND PROPOSED DRIVEWAYS. IF A CONFLICT IS FOUND, THE CONTRACTOR SHALL IMMEDIATELY INFORM THE ENGINEER IN WRITING. IN THE EVENT OF A CONFLICT, THE CONTRACTOR SHALL OBTAIN WRITTEN INSTRUCTIONS FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY THE CONFLICT. FAILING TO SECURE SUCH INSTRUCTIONS, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS OWN RISK AND EXPENSE."

## NOTE:

1. THE MATERIALS AND WORK FOR THIS PROJECT SHALL CONFORM TO THE LATEST N.E.C. AND APPLICABLE STANDARD SPECIFICATIONS AND SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS ISSUED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

REVISED 06-06-08  
REVISED 05-21-08



ILLINOIS DEPARTMENT OF TRANSPORTATION  
VILLAGE OF SUGAR GROVE, KANE COUNTY  
INTERSECTION: GALENA BOULEVARD WITH  
ILLINOIS ROUTE 47  
**BILL OF MATERIAL  
EXISTING AND TEMPORARY LIGHTING**  
SCALE: NONE  
DATE: 4-20-08  
DRAWN BY: HKO  
CHECKED BY: JS





F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
06-00017-00-PV		KANE	232	141

**GENERAL NOTES**

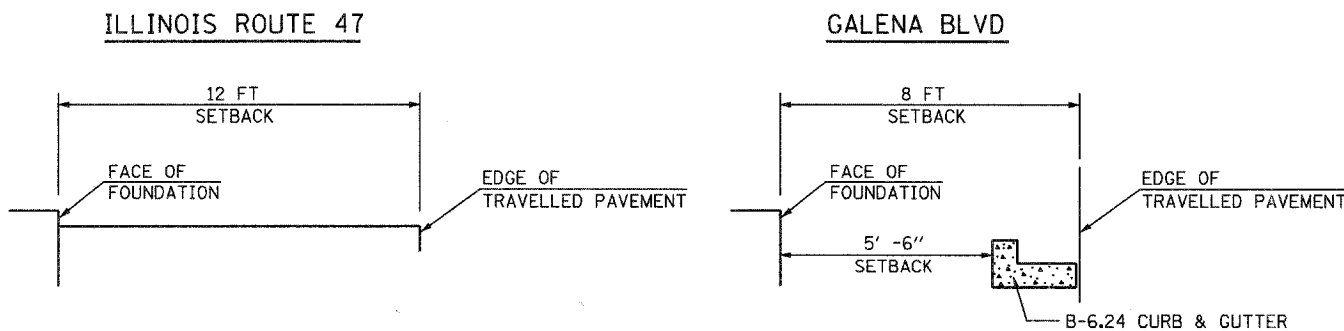
- THE EXISTING LIGHTING SYSTEM WITH CONTROLLER "KV" IS OWNED AND MAINTAINED BY THE BUREAU OF TRAFFIC OPERATIONS (TEL: 847-221-3079), DISTRICT #1, REGION #1, THE ILLINOIS DEPARTMENT OF TRANSPORTATION. THE EXISTING LIGHTING SYSTEM SHALL REMAIN OPERATIONAL THROUGHOUT THE PROJECT AT ALL TIMES BETWEEN DUSK TO DAWN OR AS DIRECTED BY THE ENGINEER.
- BEFORE PERFORMING ANY EXCAVATION, REMOVAL OR INSTALLATION WORK AT THE PROJECT SITE, THE CONTRACTOR SHALL NOTIFY THE FIELD ENGINEER MR. RAO VAITLA, STATE ELECTRICAL OPERATION FIELD OFFICE (TEL: 847-221-3079) AND REQUEST FOR PRECONSTRUCTION INSPECTION FOR THE STATE MAINTAINED LIGHTING/ELECTRICAL EQUIPMENT. THE REQUEST FOR THE PRECONSTRUCTION INSPECTION SHALL BE MADE NOT LESS THAN SEVEN (7) CALENDER DAYS PRIOR TO THE DESIRED INSPECTION DATE.
- THE CONTRACTOR SHALL CONDUCT WITH THE STATE ELECTRIC MAINTENANCE CONTRACTOR AN INVENTORY OF THE EXISTING LIGHTING/ELECTRICAL EQUIPMENT, WHICH WILL BE AFFECTED BY THE IMPROVEMENT. THIS INVENTORY RECORD SHALL BE IN WRITING AND SIGNED BY ALL PARTIES. THE CONTRACTOR SHALL SUBMIT A COPY OF THE INVENTORY TO MR. STEPHEN TRAVIA/MR. MARTIN E. ANDERSON, BUREAU OF TRAFFIC OPERATIONS, DISTRICT #1, ILLINOIS DEPARTMENT OF TRANSPORTATION, 201 WEST CENTER COURT, SCHAUMBURG, ILLINOIS 60196.
- AT THE CONTRACTOR'S REQUEST, THE STATE ELECTRIC MAINTENANCE CONTRACTOR SHALL MARK AND/OR STAKE (ONLY ONCE PER LOCATION), WITHIN PROJECT LIMITS, ALL UNDERGROUND CABLE ROUTES OWNED AND MAINTAINED BY THE STATE, SEVEN (7) DAYS ADVANCE NOTICE IS REQUIRED BY THE STATE ELECTRIC MAINTENANCE CONTRACTOR.
- THE PROPOSED LIGHTING IMPROVEMENT SHALL BE COORDINATED WITH THE ENGINEER. THE CONTRACTOR SHALL GIVE IN WRITING TO THE ENGINEER FOR REVIEW AND APPROVAL, A CONSTRUCTION STAGING PLAN FOR THE PROPOSED LIGHTING IMPROVEMENT. THE CONTRACTOR SHALL MAINTAIN THE EXISTING LIGHTING SYSTEM AS DESCRIBED IN PAY ITEM " MAINTANANCE OF LIGHTING SYSTEM"
- BELOW GROUND SPLICING OF THE UNIT DUCT AND CIRCUIT CABLES WILL NOT BE PERMITTED.
- WHERE SEPARATE CIRCUIT RUNS ARE TO BE INSTALLED PARALLEL WITH EACH OTHER, ONE COMMON TRENCH SHALL BE USED AND SHALL BE MEASURED ONLY ONCE FOR PAYMENT, AS TRENCH AND BACKFILL FOR ELECTRICAL WORK.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MARK THE PROPOSED LOCATIONS OF HIGHWAY LIGHTING SYSTEM PER ARTICLE 801.09 OF THE STANDARD SPECIFICATIONS FOR THE ENGINEER'S INSPECTION AND APPROVAL. THE EXACT LOCATIONS OF ALL OTHER ROADWAY LIGHTING ITEMS, INCLUDING THE LIGHTING CONTROLLER(S), SHALL BE CONFIRMED WITH THE ENGINEER PRIOR TO STARTING WORK.
- THE RESPONSIBILITY FOR COORDINATING FINISHED GRADE ELEVATION WITH THE TOP OF THE FOUNDATION HEIGHTS SHALL BE WITH THE CONTRACTOR.

**GENERAL NOTES**

- THE SUBMITTALS OF ELECTRICAL CATALOGS AND SHOP DRAWINGS SHALL BE PER IDOT STANDARD SPECIFICATIONS.
- ALL ELECTRIC CABLE CIRCUIT SHALL BE FULLY PIGMENTED COLOR CODED AND TAGGED AS SHOWN ON THE DRAWINGS.  
RED/BLACK - CIRCUIT PHASE WIRES  
WHITE-NEUTRAL  
GREEN-GROUND
- IN ACCORDANCE WITH ARTICLE 801.16 OF THE STANDARD SPECIFICATIONS, THE CONTRACTOR SHALL SUBMIT FOUR (4) FULL SIZE COPIES OF NEATLY DRAWN RECORD DRAWINGS FOR THE ENGINEER'S REVIEW AND COMMENT. THE RECORD DRAWINGS SHALL BE UPDATED REGULARLY AND DEPICT, IN RED, ANY ADDITIONS OR ALTERATIONS TO THE ELECTRICAL INSTALLATION DURING CONSTRUCTION. THE RECORD DRAWINGS SHALL BE SUBMITTED AT LEAST SEVEN (7) DAYS FOR SCHEDULING A FINAL INSPECTION
- THE CONTRACTOR SHALL NOTIFY J.U.L.I.E. AT (1-800-892-0123) TO LOCATE AND MARK/STAKE ALL UNDERGROUND UTILITIES.
- RESTORATION OF PARKWAY AND PROJECT SITE SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS, AND THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL COMPLY WITH ALL LATEST ISSUED IDOT, IES, NEC AND LOCAL CODES AND ORDINANCES.
- IN ACCORDANCE WITH THE SPECIAL PROVISIONS, THE PROPOSED TRENCH SHALL BE (30 INCH) BELOW FINISHED GRADE.
- LIGHTING SYSTEM MATERIALS AND EQUIPMENT SHALL BEAR THE U.L. LISTED OR LABEL WHENEVER SUCH LABELING IS AVAILABLE.
- POLE FUSES AND ASSOCIATED HARDWARE/MATERIAL AND INSTALLATION SHALL BE INCLUDED IN THE LUMINAIRE PAY ITEM
- THE ENGINEER WILL NOT AUTHORIZE PARTIAL ACCEPTANCE OF THE PROJECT. FINAL INSPECTION AND ACCEPTANCE OF THE PROJECT WILL ONLY BE PERMITTED PER ARTICLE 801.15 OF THE STANDARD SPECIFICATIONS.
- ALL WORK SHALL BE COORDINATED WITH THE CONCURRENT RECONSTRUCTION PROJECT ACCORDING TO THE SPECIAL PROVISIONS.

**LEGEND**

- A — AERIAL CABLE, 3- 1/C NO. 4 WITH MESSENGER WIRE
- ⊙ UTILITY SERVICE POLE, TRANSFORMER MOUNTED ON POLE
- ⊙-E EXISTING LIGHTING UNIT REMAIN IN PLACE
- ⊙-R EXISTING LIGHTING UNIT TO BE REMOVED
- ⊙-R-1 EXISTING LIGHTING CONTROLLER TO BE REMOVED
- ⊗-REM EXISTING WOOD POLE TO BE REMOVED
- ⊗-T PROPOSED TEMPORARY WOOD POLE
- TEMPORARY WOOD POLE (TRAFFIC) WITH TWIN 15 FT MAST ARM
- ⊙-30 310 W HPS LUMINAIRE WITH PHOTO CELL
- ⊙-40 400 W HPS LUMINAIRE WITH PHOTO CELL
- ⊙-8 FT PROPOSED LIGHT POLE, ALUMINUM 47.5 FT MOUNTING HEIGHT, 8 FT MAST ARM 15" DIA BOLT CIRCLE. LUMINAIRE 400 WATT HPS M.C. III 240 VOLT (LINE TO NEUTRAL) BALLAST CWA TYPE POLE MOUNTED ON BREAKAWAY TRANSFORMER BASE
- ⊙-12 FT PROPOSED LIGHT POLE, ALUMINUM 47.5 FT MOUNTING HEIGHT, 12 FT MAST ARM 15" DIA BOLT CIRCLE. LUMINAIRE 400 WATT HPS M.C. III 240 VOLT (LINE TO NEUTRAL) BALLAST CWA TYPE POLE MOUNTED ON BREAKAWAY TRANSFORMER BASE
- PROPOSED UNIT DUCT 3-1/C NO. 6 & 1/C NO. 6 GROUND, 600 V (EPR-TYPE RHW) 1/4" DIA. POLYETHYLENE
- ⊕ GROUND ROD, 5/8" DIA. x 10 FT
- ⊙-C COMBINATION POLE, ALUMINUM 40 FT MOUNTING HEIGHT, 15 FT MAST ARM LUMINAIRE 310 WATT HPS M.C. III 240 VOLT (LINE TO NEUTRAL) BALLAST CWA TYPE
- PROPOSED SERVICE CABLE IN CONDUIT 3-1/C NO. 3/0, 600 V (EPR-TYPE USE-2) 3" DIA. CONDUIT
- T/P CONDUIT IN TRENCH (T) OR PUSHED (P) GALVANIZED STEEL D x L x RGC
- RIGID GALVANIZED STEEL CONDUIT
- LENGTH
- DIAMETER
- STA X+XX STATION FOR POLE LOCATION
- KV - A3 (R)
- PHASE WIRE COLOR
- POLE NUMBER IN CIRCUIT
- CIRCUIT BREAKER IDENTIFICATION
- LIGHTING CONTROLLER DESIGNATIONS



**PROPOSED LIGHT POLE SETBACK**



REVISED 06-06-08  
REVISED 05-21-08

212 TIMBERCREST DRIVE  
SCHAUMBURG, ILLINOIS  
60193-1572

ILLINOIS DEPARTMENT OF TRANSPORTATION  
VILLAGE OF SUGAR GROVE, KANE COUNTY  
INTERSECTION: GALENA BOULEVARD WITH  
ILLINOIS ROUTE 47

**GENERAL NOTES AND LEGEND**

SCALE: NONE  
DATE: 4-20-08

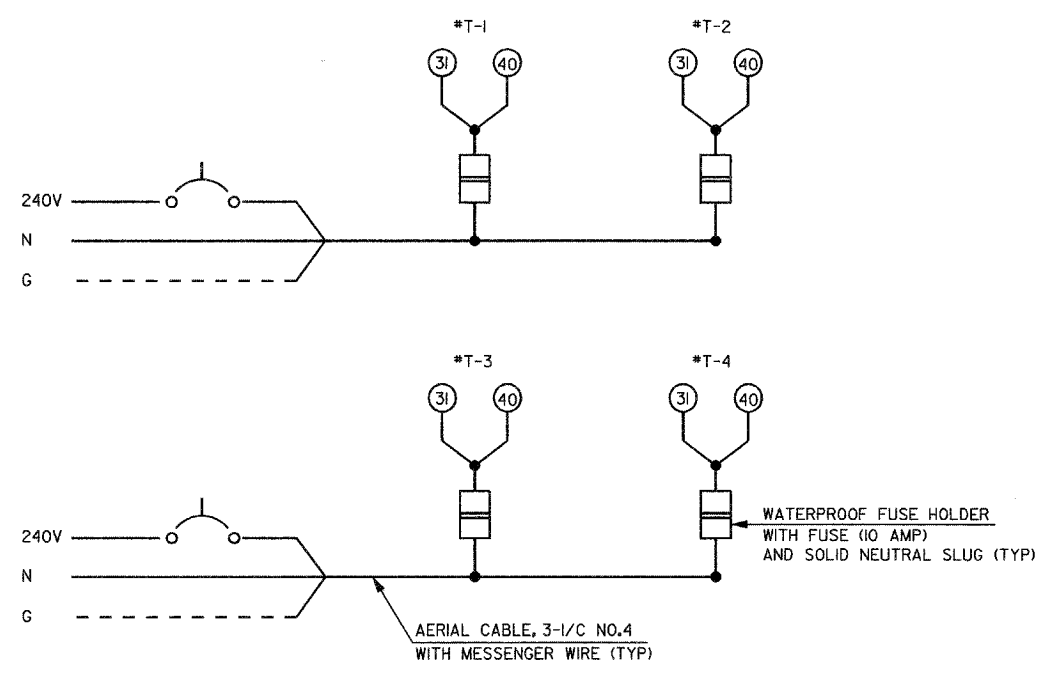
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CHECKED BY: JS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
06-00017-00-PV		KANE	232	142

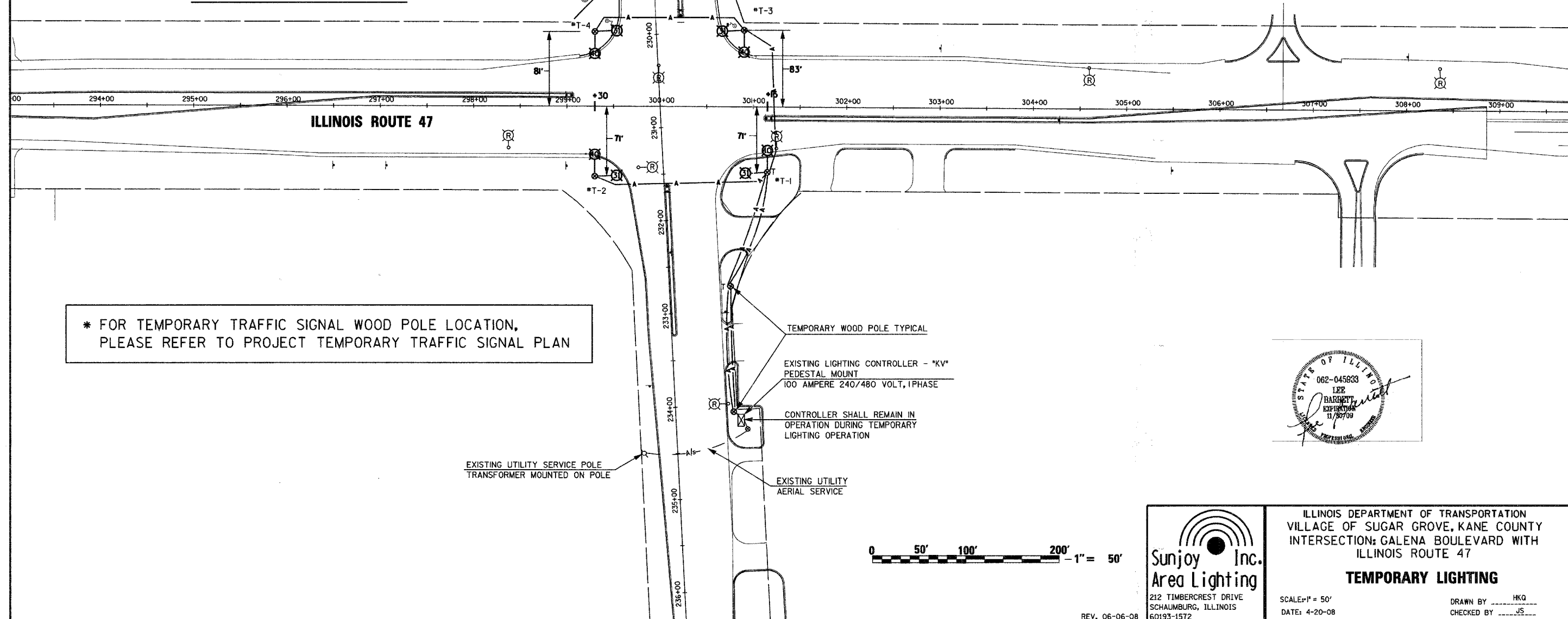


LEGEND

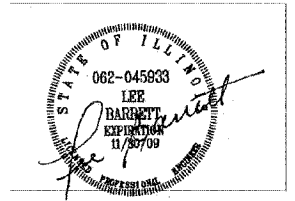
- ⊗ TEMPORARY TRAFFIC SIGNAL WOOD POLE
- ⊖ EXISTING LIGHTING UNIT TO BE REMOVED
- ⊖ R EXISTING LIGHTING CONTROLLER TO BE REMOVED
- ⊖ 31 WOOD POLE, 40 FT MOUNTING HEIGHT, 15 FT MAST ARM LUMINAIRE WITH PHOTOCELL, 310 WATT HPS M.C. III 240 VOLT (LINE TO NEUTRAL) BALLAST CWA TYPE
- ⊖ 40 WOOD POLE, 40 FT MOUNTING HEIGHT, 15 FT MAST ARM LUMINAIRE WITH PHOTOCELL, 400 WATT HPS M.C. III 240 VOLT (LINE TO NEUTRAL) BALLAST CWA TYPE
- A — AERIAL CABLE, 3- 1/C NO. 4 WITH MESSENGER WIRE
- \*T-3 TEMPORARY LIGHT POLE NUMBER (TYP)



TEMPORARY LIGHTING CIRCUIT



\* FOR TEMPORARY TRAFFIC SIGNAL WOOD POLE LOCATION, PLEASE REFER TO PROJECT TEMPORARY TRAFFIC SIGNAL PLAN



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Area Lighting  
212 TIMBERCREST DRIVE  
SCHALMBURG, ILLINOIS  
60193-1572

ILLINOIS DEPARTMENT OF TRANSPORTATION  
VILLAGE OF SUGAR GROVE, KANE COUNTY  
INTERSECTION: GALENA BOULEVARD WITH ILLINOIS ROUTE 47

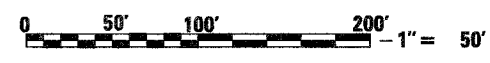
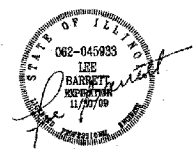
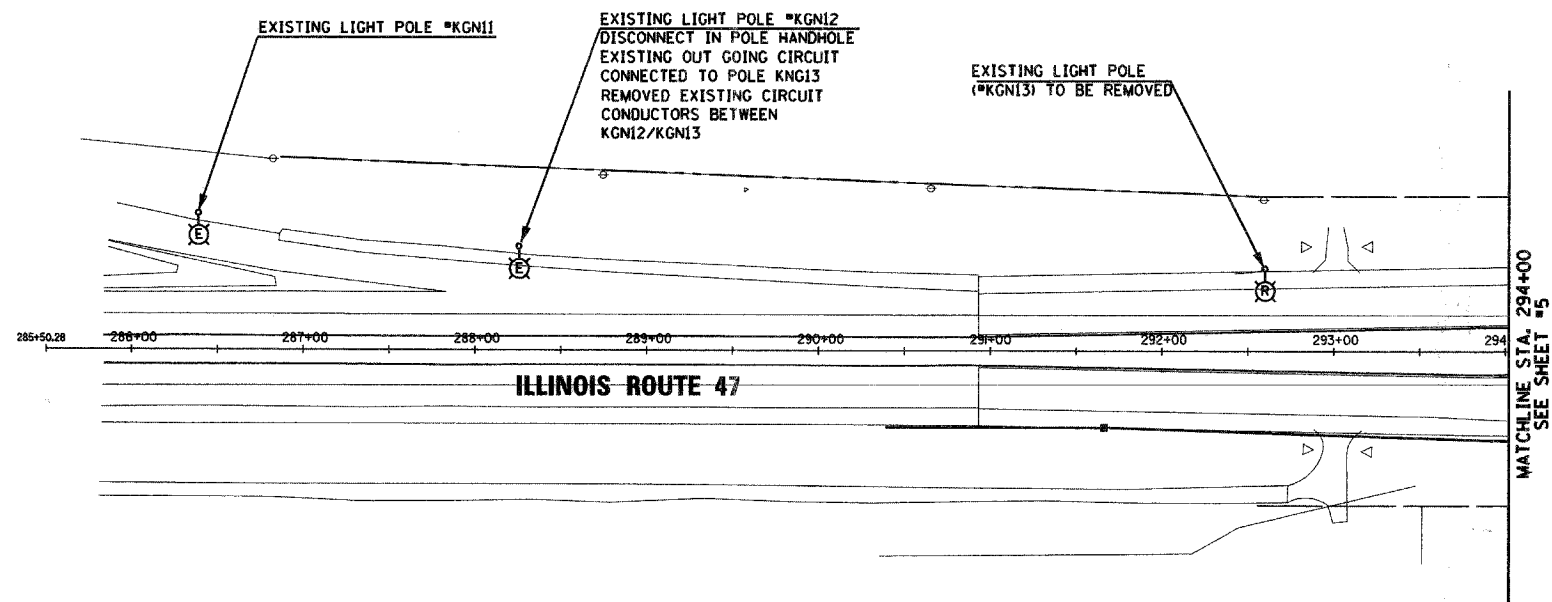
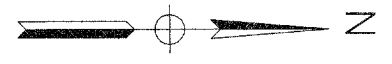
**TEMPORARY LIGHTING**

SCALE: 1" = 50'  
DATE: 4-20-08

DRAWN BY: HKQ  
CHECKED BY: JS

63023

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
06-00017-00-PV		KANE	232	143



**Sunjoy Inc.**  
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REV 06-06-08

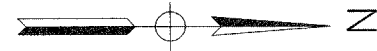
ILLINOIS DEPARTMENT OF TRANSPORTATION  
VILLAGE OF SUGAR GROVE, KANE COUNTY  
INTERSECTION: GALENA BOULEVARD WITH  
ILLINOIS ROUTE 47  
**EXISTING LIGHTING TO BE REMOVED**

SCALE: 1" = 50'  
DATE: 5-21-08




DRAWN BY: HKQ  
CHECKED BY: JS

63023

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
06-00017-00-PV		KANE	232	144



**LEGEND**

-  EXISTING LIGHTING UNIT TO BE REMOVED
-  EXISTING LIGHTING CONTROLLER TO BE REMOVED
-  REMOVE EXISTING WOOD POLE

MATCHLINE STA. 294+00  
SEE SHEET #4

**GALENA BOULEVARD**

**ILLINOIS ROUTE 47**

**NOTE:**

EXISTING AERIAL SERVICE CABLE, WOOD POLE AND CONTROLLER SHALL BE REMOVED WITH REMOVAL OF TEMPORARY LIGHTING.

EXISTING UTILITY SERVICE POLE  
TRANSFORMER MOUNTED ON POLE

- EXISTING LIGHTING CONTROLLER - "KV"  
SHALL REMAIN IN OPERATION DURING  
TEMPORARY LIGHTING OPERATION
- REMOVE WOOD POLE
- REMOVE AERIAL SERVICE CABLE



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Area Lighting  
212 TIMBERCREST DRIVE  
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ILLINOIS DEPARTMENT OF TRANSPORTATION  
VILLAGE OF SUGAR GROVE, KANE COUNTY  
INTERSECTION: GALENA BOULEVARD WITH  
ILLINOIS ROUTE 47

**EXISTING LIGHTING TO BE REMOVED**

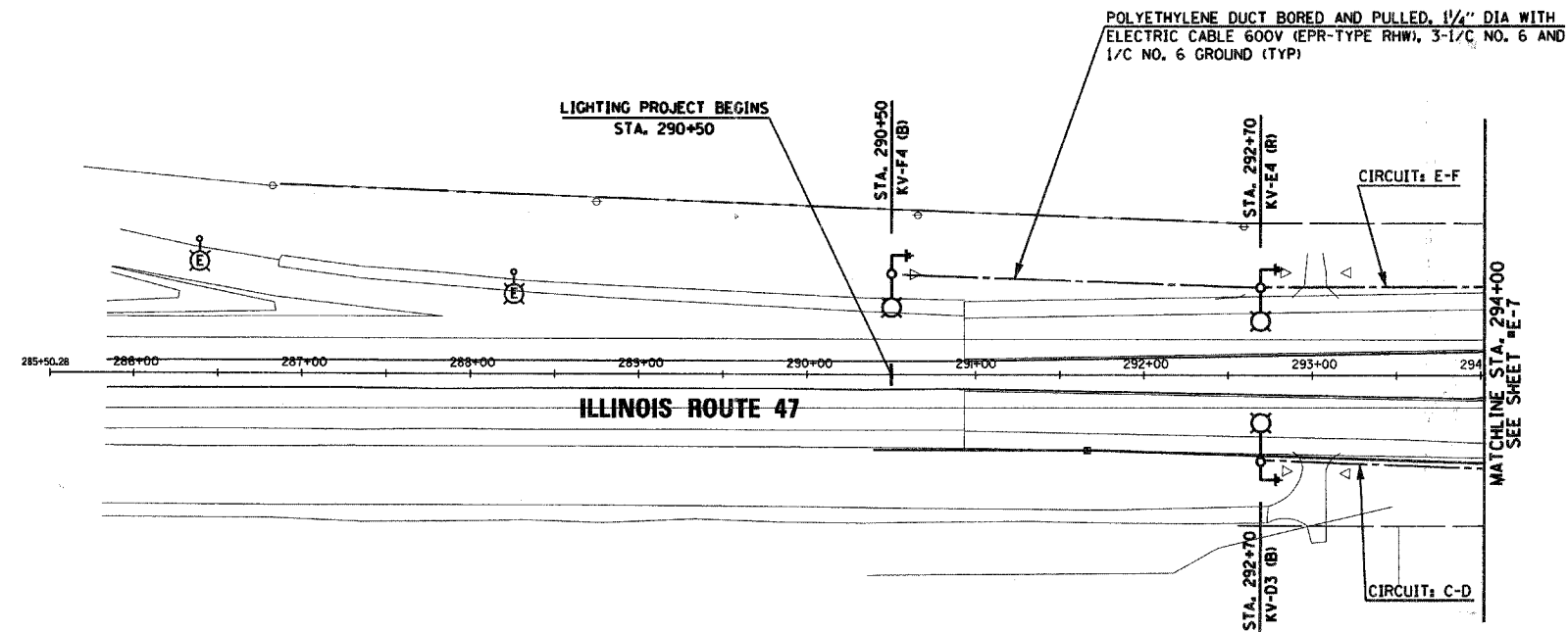
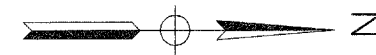
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DATE: 4-20-08

DRAWN BY: HKQ  
CHECKED BY: JS



63023

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
06-00017-00-PV		KANE	232	145



**Sunjoy Inc.**  
Area Lighting  
212 TIMBERCREST DRIVE  
SCHALMBURG, ILLINOIS  
60193-1572

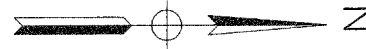
ILLINOIS DEPARTMENT OF TRANSPORTATION  
VILLAGE OF SUGAR GROVE, KANE COUNTY  
INTERSECTION: GALENA BOULEVARD WITH  
ILLINOIS ROUTE 47

**PROPOSED ROADWAY LIGHTING**




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DATE: 5-21-08

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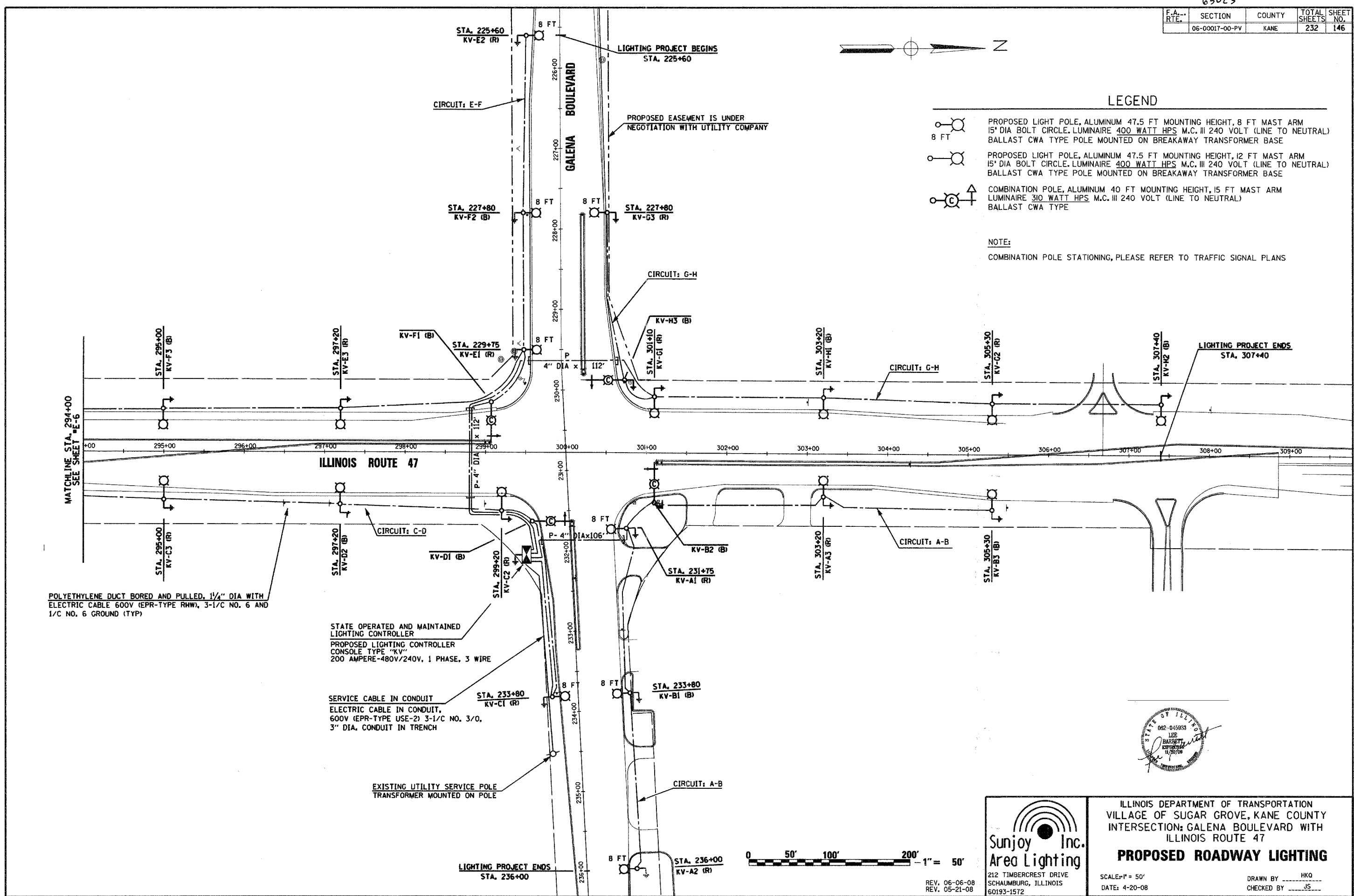
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
06-00017-00-PV		KANE	232	146



LEGEND

-  PROPOSED LIGHT POLE, ALUMINUM 47.5 FT MOUNTING HEIGHT, 8 FT MAST ARM 15" DIA BOLT CIRCLE. LUMINAIRE 400 WATT HPS M.C. III 240 VOLT (LINE TO NEUTRAL) BALLAST CWA TYPE POLE MOUNTED ON BREAKAWAY TRANSFORMER BASE
-  PROPOSED LIGHT POLE, ALUMINUM 47.5 FT MOUNTING HEIGHT, 12 FT MAST ARM 15" DIA BOLT CIRCLE. LUMINAIRE 400 WATT HPS M.C. III 240 VOLT (LINE TO NEUTRAL) BALLAST CWA TYPE POLE MOUNTED ON BREAKAWAY TRANSFORMER BASE
-  COMBINATION POLE, ALUMINUM 40 FT MOUNTING HEIGHT, 15 FT MAST ARM LUMINAIRE 310 WATT HPS M.C. III 240 VOLT (LINE TO NEUTRAL) BALLAST CWA TYPE

NOTE:  
COMBINATION POLE STATIONING, PLEASE REFER TO TRAFFIC SIGNAL PLANS



POLYETHYLENE DUCT BORED AND PULLED, 1/4" DIA WITH ELECTRIC CABLE 600V (EPR-TYPE RHW), 3-1/C NO. 6 AND 1/C NO. 6 GROUND (TYP)

STATE OPERATED AND MAINTAINED LIGHTING CONTROLLER  
PROPOSED LIGHTING CONTROLLER  
CONSOLE TYPE "KV"  
200 AMPERE-480V/240V, 1 PHASE, 3 WIRE

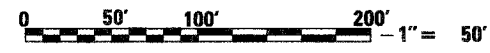
SERVICE CABLE IN CONDUIT  
ELECTRIC CABLE IN CONDUIT,  
600V (EPR-TYPE USE-2) 3-1/C NO. 3/0,  
3" DIA. CONDUIT IN TRENCH

EXISTING UTILITY SERVICE POLE  
TRANSFORMER MOUNTED ON POLE

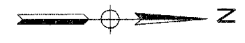


**Sunjoy Inc.**  
Area Lighting  
212 TIMBERCREST DRIVE  
SCHAUMBURG, ILLINOIS  
60193-1572

ILLINOIS DEPARTMENT OF TRANSPORTATION  
VILLAGE OF SUGAR GROVE, KANE COUNTY  
INTERSECTION: GALENA BOULEVARD WITH  
ILLINOIS ROUTE 47  
**PROPOSED ROADWAY LIGHTING**  
SCALE: 1" = 50'  
DATE: 4-20-08  
DRAWN BY: HKQ  
CHECKED BY: JS

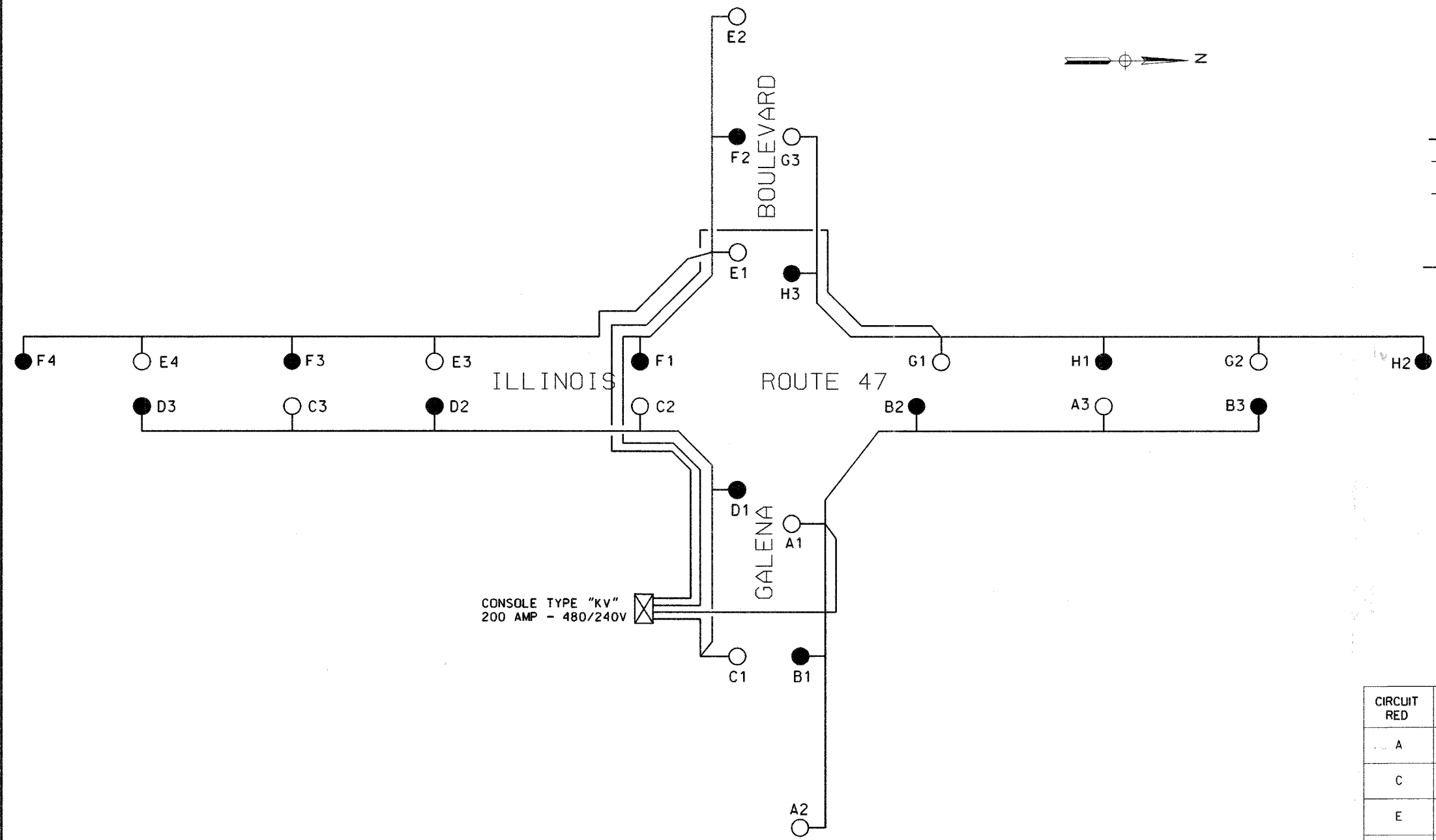


REV. 06-06-08  
REV. 05-21-08



LEGEND

- LUMINAIRE ON RED CIRCUIT
- LUMINAIRE ON BLACK CIRCUIT
- ⊠ CONTROL CABINET
- 3 1/2 #6 & 1/2 #6 GND  
600 V (EPR - TYPE RHW)

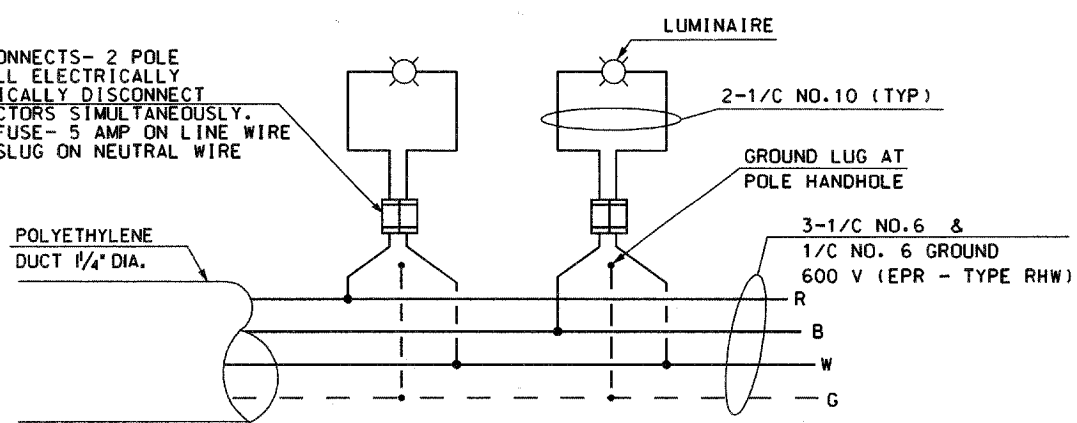


**ONE LINE CIRCUIT DIAGRAM**

CIRCUIT LOAD  
 CONTROLLER "KV" 240/480 VOLT

CIRCUIT RED	AMPERE	WATTS	CIRCUIT BLACK	AMPERE	WATTS
A	6.0	1,434	B	6.0	1,912
C	6.0	1,434	D	6.0	1,434
E	8.0	1,912	F	8.0	1,912
G	6.0	1,434	H	6.0	1,434
SPARE			SPARE		
SPARE			SPARE		
TOTAL	26.0	6,214	TOTAL	26.0	6,214

QUICK DISCONNECTS- 2 POLE  
 DEVICE SHALL ELECTRICALLY  
 AND MECHANICALLY DISCONNECT  
 BOTH CONDUCTORS SIMULTANEOUSLY.  
 SLOW BLOW FUSE- 5 AMP ON LINE WIRE  
 AND SOLID SLUG ON NEUTRAL WIRE



**CIRCUIT DETAILS TYP.**

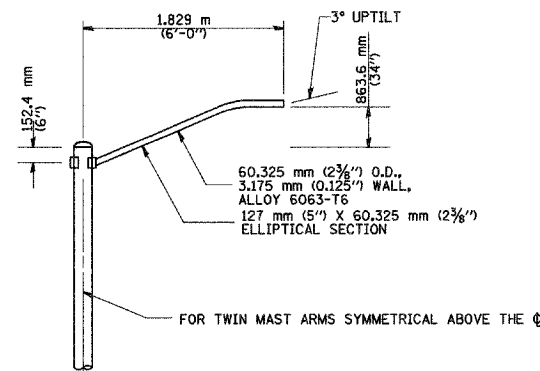
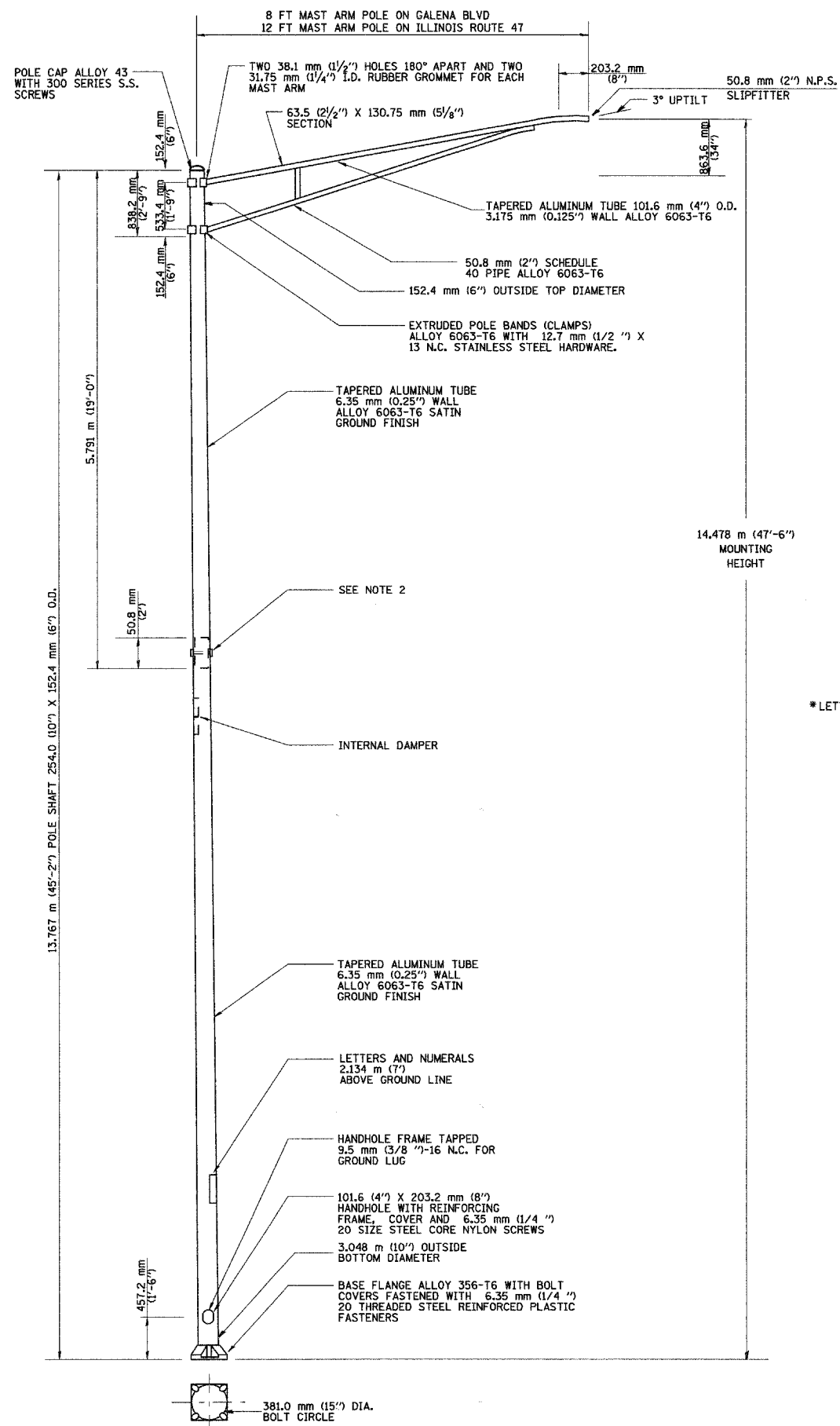


**Sunjoy Inc.**  
 Area Lighting  
 212 TIMBERCREST DRIVE  
 SCHAUMBURG, ILLINOIS  
 60193-1572

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 VILLAGE OF SUGAR GROVE, KANE COUNTY  
 INTERSECTION: GALENA BOULEVARD WITH  
 ILLINOIS ROUTE 47  
**ONE LINE CIRCUIT DIAGRAM  
 CONTROLLER "KV"**  
 SCALE: NONE  
 DATE: 4-20-08  
 DRAWN BY: HKQ  
 CHECKED BY: JS

REVISED 06-06-08

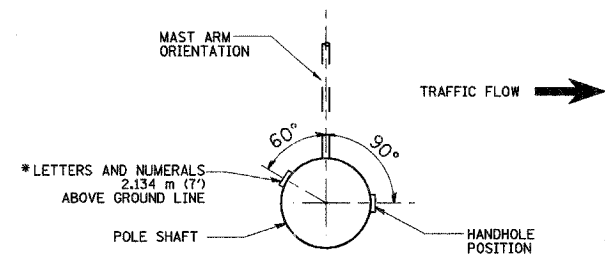
F.A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00017-00-PV	KANE	232	148
STA.		TO STA.		
FED. ROAD DIST. NO. 1	BLK/MS	FED. AID PROJECT		



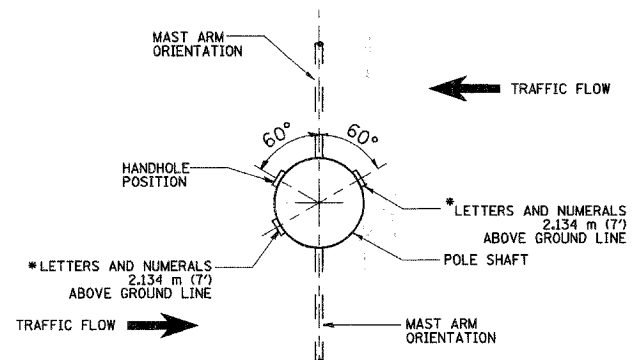
**SINGLE MEMBER MAST ARM**  
(N.T.S.)

**NOTES**

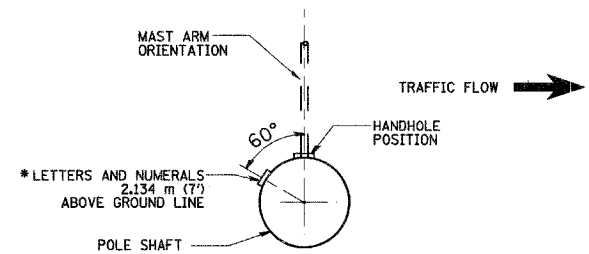
1. BOLT SLOTS SHALL BE 44.45 (1 3/4") X 50.8 mm (2") CENTERED ON BOLT CIRCLE.
2. TWO PIECE SHAFT WILL BE MATCH MARKED AND INTERCHANGEABLE BETWEEN DIFFERENT UNITS. STUD BOLT WILL BE 15.875 mm (5/8") DIA. WITH NUT, FLATWASHER, AND LOCK WASHER. THERE WILL BE NO THREADS ON THE BOLT INSIDE THE POLE SHAFT.
3. LUMINAIRES ARE TO BE INSTALLED AS SOON AS POSSIBLE AFTER POLE ERECTION. THE POLE WILL NOT BE PAID FOR UNTIL THE LUMINAIRE IS INSTALLED.
4. THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA.
5. THE DUCT SHALL EXTEND INTO POLE A MINIMUM OF 304.8 mm (12") ABOVE THE BASE.



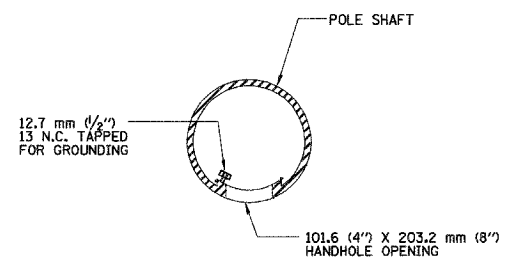
**POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES**



**POSITION OF HANDHOLE AND POLE NUMBER FOR TWIN MAST ARM POLES**



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



**HANDHOLE DETAIL**  
(N.T.S.)



**Sunjoy Inc. Area Lighting**  
212 TIMBERCREST DRIVE  
SCHAUMBURG, ILLINOIS  
60193-1572

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
INTERSECTION: GALENA BOULEVARD WITH ILLINOIS ROUTE 47  
**ALUMINUM LIGHT POLE**  
14.478 m (47'-6")  
**MOUNTING HEIGHT**

SCALE: NONE  
DATE: \*\*DATE\*\*

DRAWN BY: \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_

\*DATE-TIME\*  
\*DGN-SPEC\*  
VI-BE19

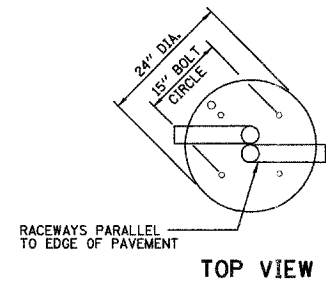


63023

# FOUNDATION DESIGN TABLE

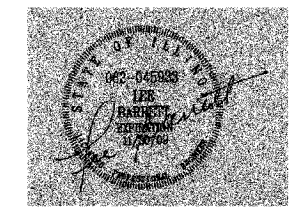
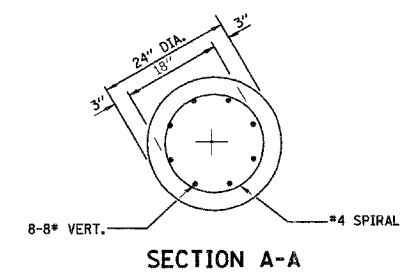
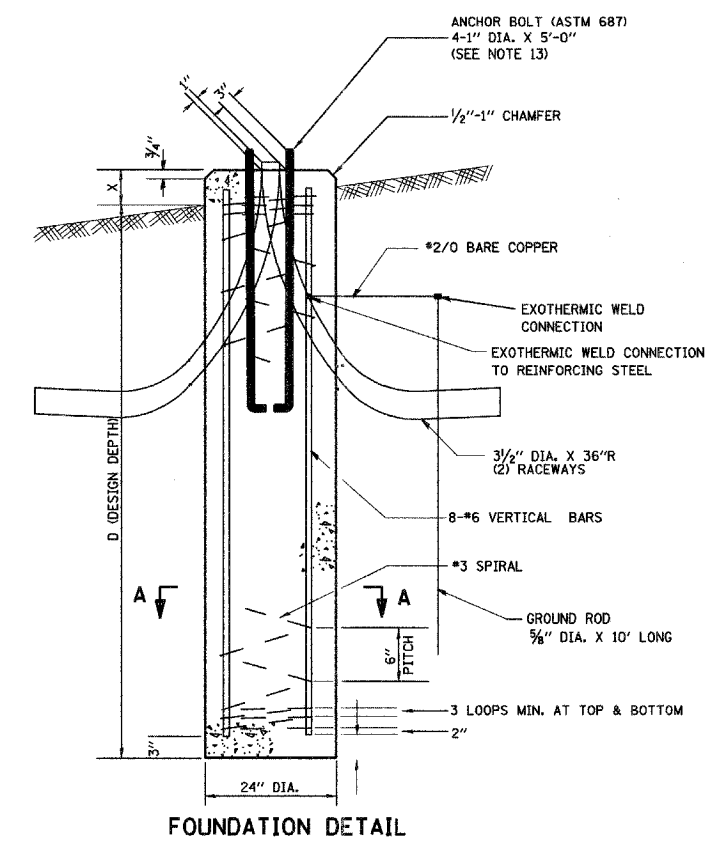
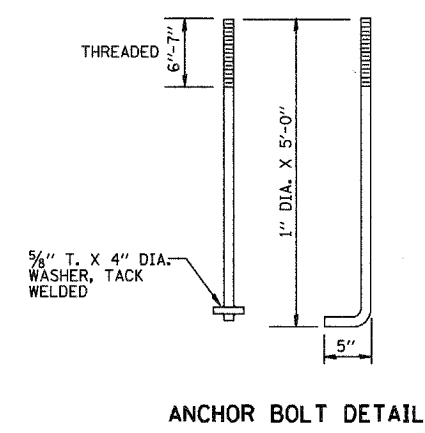
TYPE OF SOIL	DESIGN DEPTH OF FOUND'N		REINFORCEMENT IN FOUNDATION			
	SINGLE ARM D	TWIN ARM D	SINGLE ARM		TWIN ARM	
			VERT BARS	SPIRAL	VERT BARS	SPIRAL
SOFT CLAY	13'-0"	15'-0"	8-#6 X 12'-6"	#3 X 122'	8-#6X14'X3'	#3 X 141'
MEDIUM CLAY	9'-6"	10'-9"	8-#6 X 9'-0"	#3 X 90'	8-#6 X 10'-0"	#3 X 100'
STIFF CLAY	7'-0"	8'-0"	8-#6 X 6'-6"	#3 X 66"	8-#6 X 7'-6"	#3 X 76'
LOOSE SAND	9'-0"	10'-0"	8-#6 X 8'-6"	#3 X 85'	8-#6 X 9'-6"	#3 X 94'
MEDIUM SAND	8'-3"	9'-0"	8-#6 X 8'-0"	#3 X 78'	8-#6 X 8'-6"	#3 X 85'
DENSE SAND	7'-9"	9'-0"	8-#6 X 7'-6"	#3 X 73'	8-#6 X 8'-6"	#3 X 85'
ROCK OR SOLIDIFIED SLAG	5'-0"	5'-0"	NONE	NONE	NONE	NONE

P.A. REC.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00017-00-PV	KANE	232	149
STA.		TO STA.		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



## NOTES

1. THE ENGINEER SHALL DETERMINE THE CLASS OF SOIL DURING EXCAVATION AND SELECT THE DESIGN DEPTH OF FOUNDATION FROM THE DESIGN TABLE.
2. THE DESIGN DEPTH "D" OF FOUNDATION SHALL BE INCREASED BY VALUE OF X ACCORDING TO FIELD CONDITIONS.
3. EXCAVATION OF THE POLE FOUNDATION SHALL BE MADE WITH AN AUGER, 24" IN DIAMETER.
4. THE CONTRACTOR SHALL USE #3 SPIRAL AT 6" PITCH OR AT HIS OPTION MAY SUBSTITUTE #3 TIES AT 12" O/C.
5. THE ANCHOR SHALL BE A TACK WELDED TYPE BOLT OR HOOK TYPE BOLT. COLD BENDING OF THE HOOK BOLT WILL NOT BE ALLOWED.
6. THE ANCHOR BOLTS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE.
7. THE ENTIRE LENGTH OF THE ANCHOR BOLTS AS WELL AS THE NUTS AND WASHERS SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM DESIGNATION A 153.
8. CONCRETE SHALL BE CLASS "SI". CONCRETE FOUNDATION MUST BE CURED FOR (10) TEN DAYS BEFORE THE LIGHT STANDARD IS ERECTED.
9. THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE LIGHT IS ERECTED.
10. ANCHOR BOLTS SHALL PROJECT 3" ABOVE THE TOP OF THE FOUNDATION.
11. RACEWAYS SHALL PROJECT 1" ABOVE THE TOP OF THE FOUNDATION.
12. THE CONTRACTOR SHALL COORDINATE THE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF FOUNDATION WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS.
13. A MINIMUM OF 3" OF THE THREADING ON THE ANCHOR BOLTS SHALL REMAIN BELOW THE TOP OF THE FOUNDATION.



**Sunjoy Inc.**  
Area Lighting  
212 TIMBERCREST DRIVE  
SCHAUMBURG, ILLINOIS  
60193-1572

REVISIONS	
NAME	DATE
D. SIMON	4/93
D. DREW	06/15/95

ILLINOIS DEPARTMENT OF TRANSPORTATION  
INTERSECTION: GALENA BOULEVARD WITH  
ILLINOIS ROUTE 47

**24" DIAMETER  
LIGHT POLE FOUNDATION**

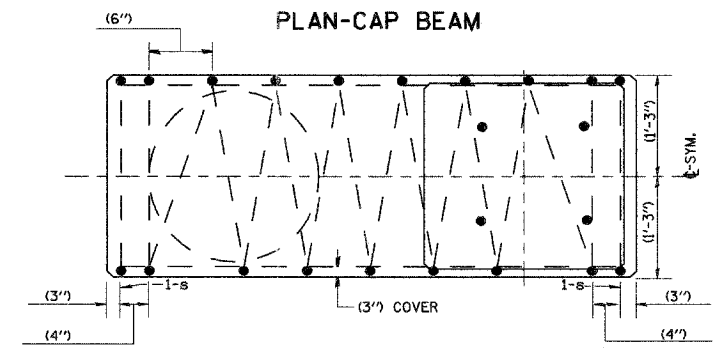
SCALE: NONE  
DATE \*\*DATE\*\*  
DRAWN BY JKM  
CHECKED BY

\*DATE-TIME\*  
\*DGN-SPEC\*  
VI-BE17

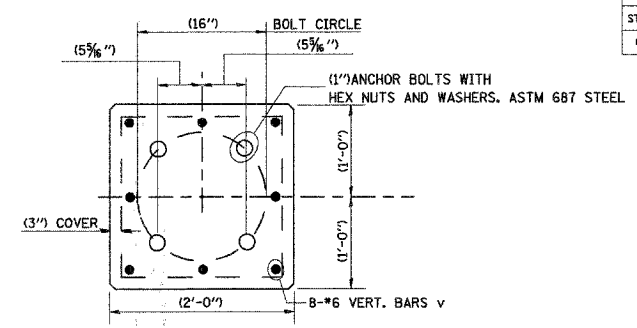
F. & P.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00017-00-PV	KANE	232	150
STA.	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

FOUNDATION DESIGN TABLE

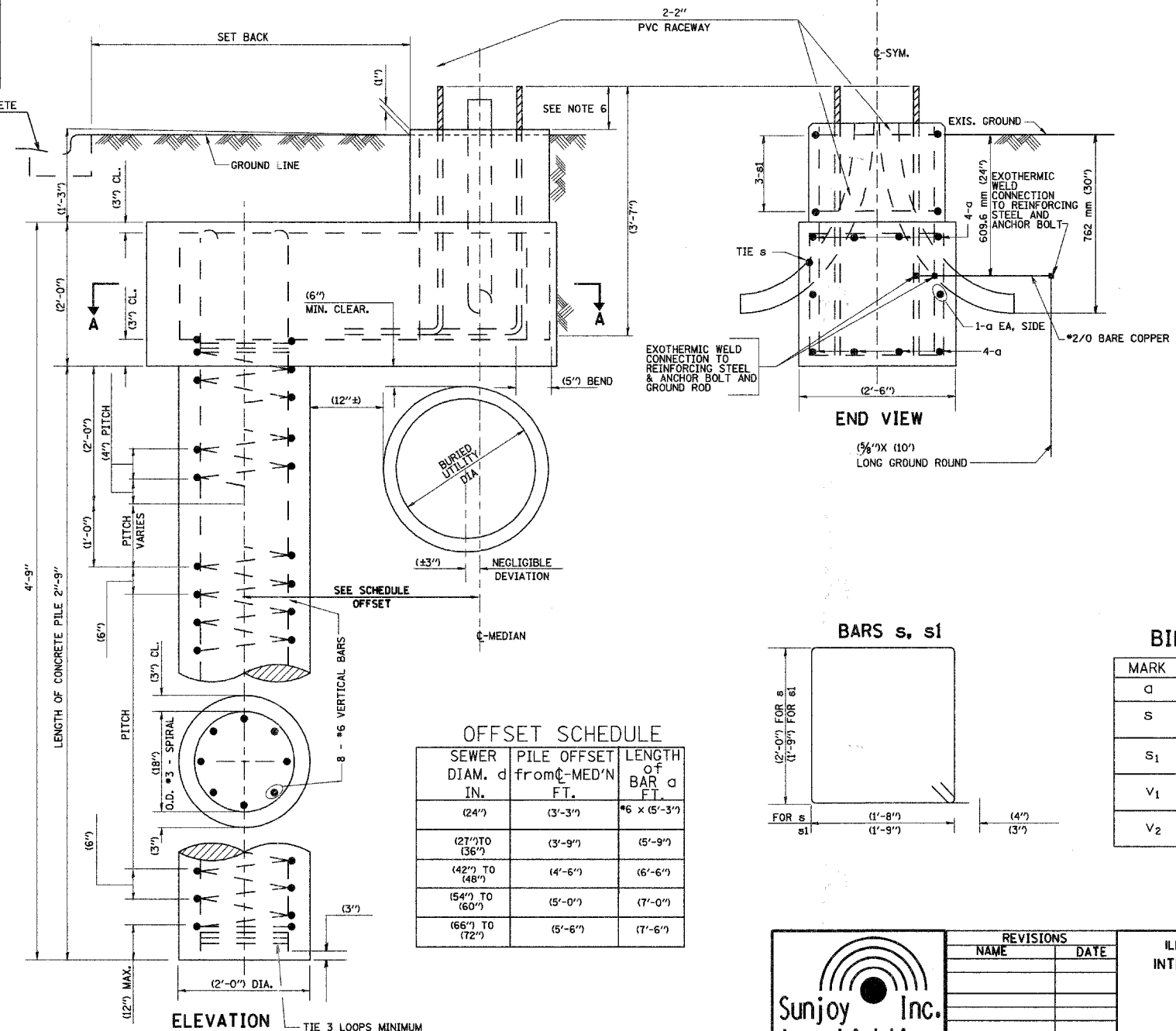
TYPE OF SOIL	DESIGN DEPTH OF FOUNDATION		REINFORCEMENT IN FOUNDATION			
	SINGLE ARM D	TWIN ARM D	SINGLE ARM		TWIN ARM	
			VERT BARS	SPIRAL	VERT BARS	SPIRAL
SOFT CLAY	3.962 m (13'-0")	4.572 m (15'-0")	8-#6X3.810 m (12'-6")	*3X37.186 m (122')	8-#6X4.343 m (14'-3")	*3X42.977 m (141')
MEDIUM CLAY	2.896 m (9'-6")	3.277 m (10'-9")	8-#6X2.743 m (9'-0")	*3X27.432 m (90')	8-#6X3.048 m (10'-0")	*3X30.480 m (100')
STIFF CLAY	2.134 m (7'-0")	2.438 m (8'-0")	8-#6X1.981 m (6'-6")	*3X20.112 m (66')	8-#6X2.286 m (7'-6")	*3X23.165 m (76')
LOOSE SAND	2.743 m (9'-0")	3.048 m (10'-0")	8-#6X2.591 m (8'-6")	*3X25.908 m (85')	8-#6X2.896 m (9'-6")	*3X28.651 m (94')
MEDIUM SAND	2.515 m (8'-3")	2.743 m (9'-0")	8-#6X2.438 m (8'-0")	*3X23.774 m (78')	8-#6X2.591 m (8'-6")	*3X25.908 m (85')
DENSE SAND	2.362 m (7'-9")	2.743 m (9'-0")	8-#6X2.286 m (7'-6")	*3X22.250 m (73')	8-#6X2.591 m (8'-6")	*3X25.908 m (85')
ROCK OR SOLIDIFIED SLAG	1.524 m (5'-0")	1.524 m (5'-0")	NONE	NONE	NONE	NONE



SECTION A-A



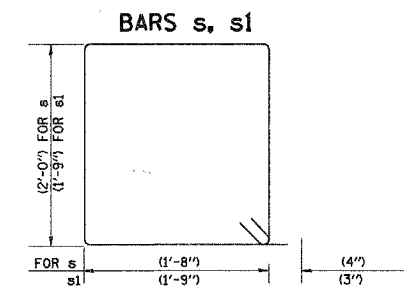
TOP VIEW



ELEVATION

OFFSET SCHEDULE

SEWER DIAM. d IN.	PILE OFFSET from C-MED'N FT.	LENGTH of BAR a FT.
(24")	(3'-3")	*6 x (5'-3")
(27") TO (36")	(3'-9")	(5'-9")
(42") TO (48")	(4'-6")	(6'-6")
(54") TO (60")	(5'-0")	(7'-0")
(66") TO (72")	(5'-6")	(7'-6")



BARS s, s1

BILL OF MATERIAL

MARK	NO.	SIZE	LENGTH	SHAPE
a	10	6	SEE BELOW	—
s	12	4	(8'-0")	□
s1	3	3	(7'-6")	□
v1	8	6	(2'-9")	—
v2				

NOTES

1. THE CONTRACTOR SHALL IDENTIFY IN FIELD BURIED UTILITY CONFLICT FOR THE INSTALLATION OF CONCRETE FOUNDATION. THE ENGINEER SHALL DETERMINE USE OF OFFSET FOUNDATION DESIGN AND LOCATION FOR PILE INSTALLATION.
2. THE SHAFT FOR PILE SHALL BE MADE WITH AN AUGER, (24") IN DIAMETER.
3. THE ANCHOR SHALL BE A TACK WELDED TYPE BOLT OR HOOK TYPE BOLT. COLD BENDING OF THE HOOK BOLT WILL NOT BE ALLOWED.
4. THE ANCHOR BOLTS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED IN THE FORM.
5. THE ENTIRE LENGTH OF THE ANCHOR BOLTS AS WELL AS THE NUTS AND WASHERS SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM DESIGNATION A 153.
6. THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF FOUNDATION WITH THE LIGHT POLE MANUFACTURER'S REQUIREMENTS. THE CONTRACTOR SHALL CONFIRM ANCHOR BOLT EXTENTION WITH ENGINEER.
7. RACEWAYS SHALL PROJECT (1") ABOVE THE TOP OF THE FOUNDATION.
8. CONCRETE SHALL BE CLASS "SI". CONCRETE FOUNDATION MUST BE CURED FOR TEN (10) DAYS BEFORE THE LIGHT STANDARD IS ERECTED.
9. THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE LIGHT POLE IS ERECTED.



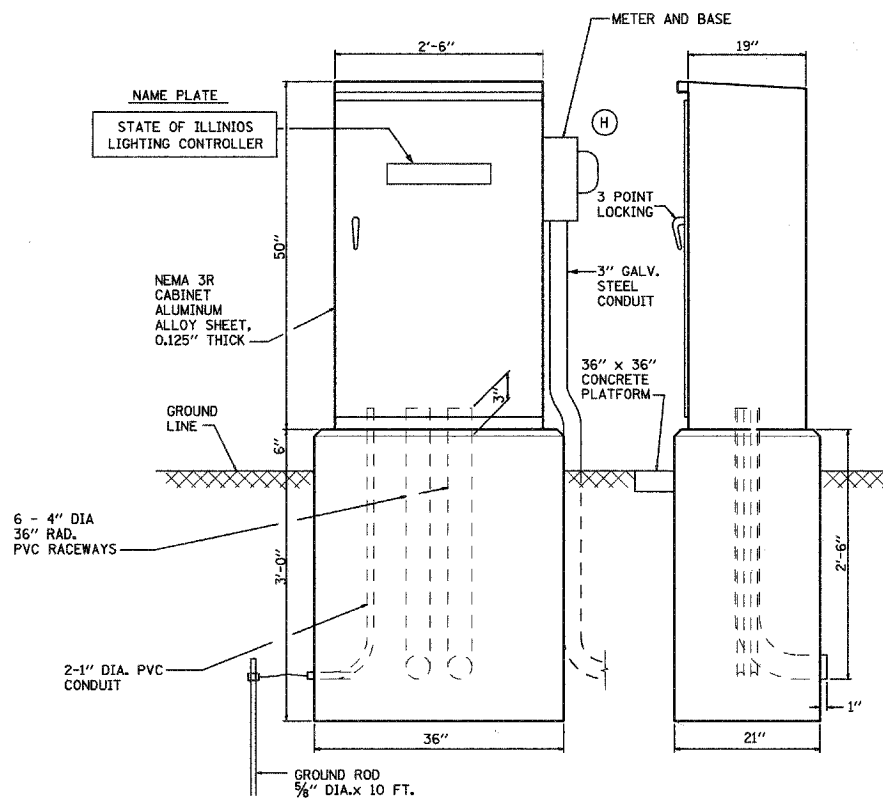
REVISIONS

NAME	DATE

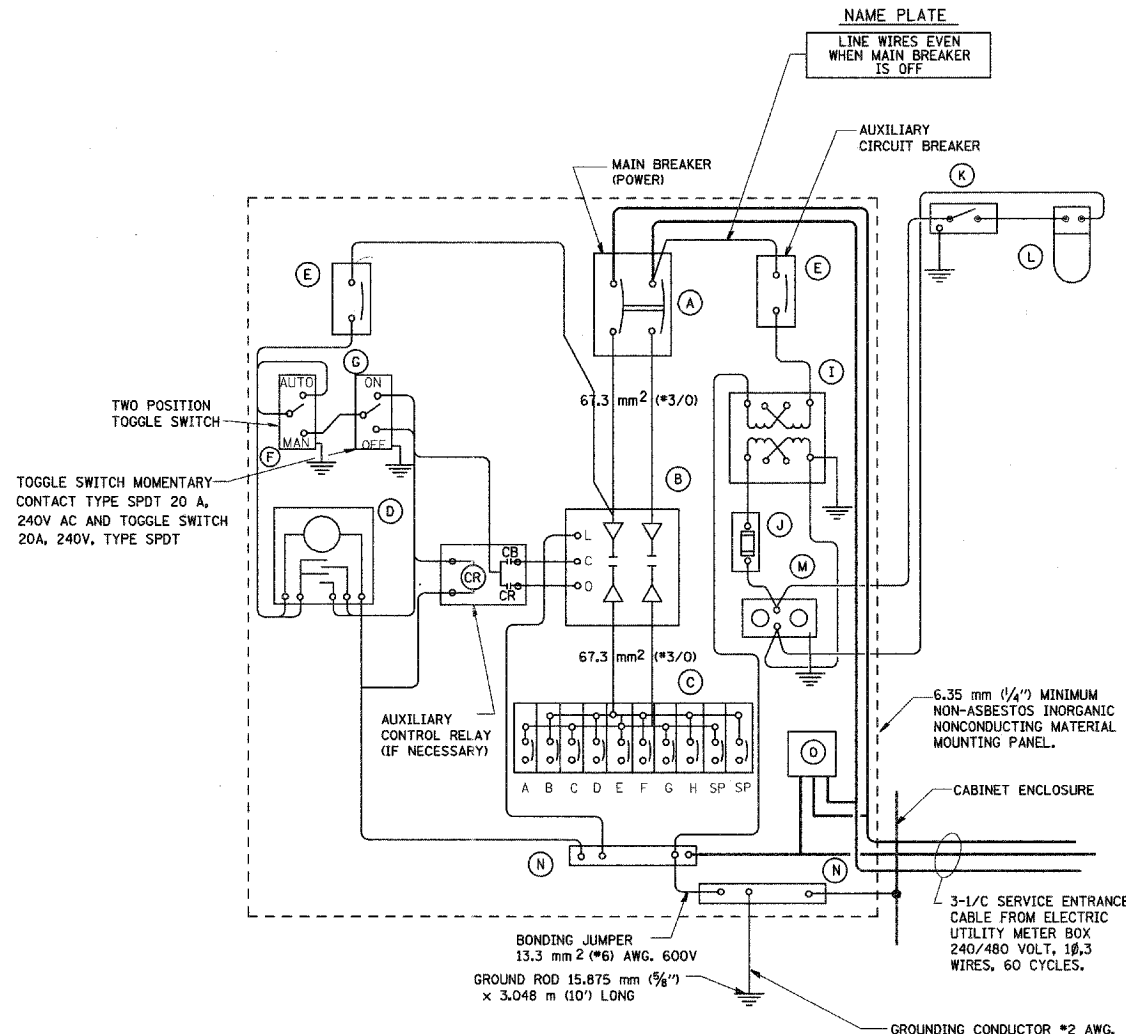
DETAILS FROM BEO/IDOT DRAWING #BEG  
 ILLINOIS DEPARTMENT OF TRANSPORTATION  
 INTERSECTION: GALENA BOULEVARD WITH ILLINOIS ROUTE 47  
**OFFSET FOUNDATION**  
 SCALE: NONE  
 DATE: 8-11-07  
 DRAWN BY: JKM  
 CHECKED BY:

\*DATE-TIME\*  
 \*DGN-SPEC\*  
 VI-BEG

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
06-00017-00-PV		KANE	232	151



**CONTROL CABINET - CONSOLE TYPE**



**PANEL WIRING DIAGRAM**

200 AMPERE, 240/480 VOLT, 1 PHASE, 3 WIRE

DEVICE SCHEDULE		
ITEM	QUANT.	DESCRIPTION
(A)	1	CIRCUIT BREAKER, MOLDED CASE, THERMAL MAGNETIC, 2-POLE, 600V. A.C., 225A. FRAME, 200A. NON-INTERCHANGABLE TRIP, BOLT-ON TYPE; INTERRUPTING CAPACITY OF NOT LESS THAN 22,000 RMS SYMMETRICAL AMPERES AT 480V.
(B)	1	LIGHTING CONTACTOR (REMOTE CONTROL SWITCH) MECHANICALLY HELD, ASCO OR EQUAL 920, MOUNTED ON SUB PANEL 200A., 2P., 600V. WITH 240V. COIL.
(C)	1	PANELBOARD (INTERIOR ONLY) 480/240V, SINGLE PHASE WITH 200A. COPPER MAINS AND TEN IP-50A BOLT-ON BRANCH BREAKERS EACH RATED 277V. WITH INTERRUPTING CAPACITY OF NOT LESS THAN 14,000 RMS SYMMETRICAL AMPERES AT 277V.
(D)	1	TIME CLOCK: 240V, 60 HZ, MICROPROCESSOR BASED 2-CHANNEL CONTROLLER WITH ASTRONOMIC FUNCTIONS. RATED FOR -30 DEGREES C. TO +70 DEGREES C.
(E)	2	CIRCUIT BREAKER, MOLDED CASE, THERMAL MAGNETIC, 1-POLE, 277V., BOLT-ON TYPE, 15 AMP WITH AN INTERRUPTING RATING OF NOT LESS THAN 14,000 RMS SYMMETRICAL AMPERES AT 277V.
(F)	1	CONTROL SWITCH, MOMENTARY CONTACT, SPDT, 20A., 240V.
(G)	1	CONTROL SWITCH, TOGGLE TYPE, SPDT, 20A., 240V. PREMIUM SPEC. GRADE
(H)	1	SOCKET FOR ELECTRIC UTILITY CO. METER.
(I)	1	STEP DOWN TRANSFORMER 240x480/120x240V, 1.5KVA.
(J)	1	FUSE HOLDER 250V, 15A. FUSE
(K)	1	MICRO SWITCH, 20A (MOUNT WITH ACTUATOR TO SWITCH WHEN DOOR OPENED)
(L)	1	60 WATT, 120V LIGHT FIXTURE, VAPORTIGHT, WITH GLOBE AND MOUNTING BOX.
(M)	1	GFI RECEPTACLE, 120V., 15A., PREMIUM SPEC. GRADE. NEMA REFERENCE 5-15R IN WEATHER-PROOF BOX WITH FLAP-TYPE COVER.
(N)	2	COPPER GROUND AND NEUTRAL BUS 1/4"x1"x12" MIN. SIZE WITH LUGS PLUS 4 SPARE LUGS.
(O)	1	SURGE ARRESTOR, 600 V

**NOTES**

- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- FOUNDATION SIZE SHALL BE COORDINATED WITH CABINET SIZE AND MFR.
- IN FRONT OF CONTROL CABINET DOOR, REMOVE VEGETATION AND 2" (50.8 mm) TOP SOIL, LEVEL AREA AND ON TOP, PLACE LENGTH WISE PARALLEL TO CONTROL CABINET, A CONCRETE PAD 36" (914.4 mm) x 60" (1524 mm) x 4" (101 mm) MIN. SIZE. THE COST OF LABOR AND MATERIALS ARE INCLUDED IN THE COST OF THE CONTROLLER.
- DOOR SHALL BE CONSTRUCTION FROM SAME TYPE OF MATERIAL AND THICKNESS AS CABINET.
- DOOR SHALL BE EQUIPPED WITH THREE POINT LATCHING MECHANISM WITH NYLON ROLLERS AT TOP THE BOTTOM.
- DOOR HINGE SHALL BE A HEAVY GAUGE CONTINUOUS HINGE WITH A 1/4" (16.35 mm) DIA. STAINLESS STEEL HINGE PIN.
- ALL EXTERNAL HARDWARE SHALL BE STAINLESS STEEL.
- CONTROL WIRING TO #12 AWG, 600V, TYPE "SIS" GRAY SWITCH BOARD WIRE, STRANDED COPPER.
- METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET, NEAR TO THE SERVICE POLE.
- CABINETS SHALL BE PRIMED AND PAINTED AS SPECIFIED.
- THE HEADS OF CONNECTORS SCREWS SHALL BE PAINTED WHITE FOR NEUTRAL BAR CONNECTION AND GREEN FOR GROUND BAR CONNECTORS.
- ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED.  
R = RED    BL = BLUE    W = WHITE  
B = BLACK    Y = YELLOW    G = GREEN
- PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINET WITHIN THE CONTROL CABINET.
- ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.
- THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508 AND BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL PANEL".
- 12" (304.8) x 16" (406.4 mm) STAINLESS STEEL EXTERIOR NAMEPLATE SHALL BE ENGRAVED TO "STATE OF ILLINOIS LIGHTING CONTROLS" UNLESS OTHERWISE SPECIFIED.



EXCEL 847-543-9138

**Sunjoy Inc.**  
Area Lighting

212 TIMBERCREST DRIVE  
SCHAUMBURG, ILLINOIS  
60193-1572

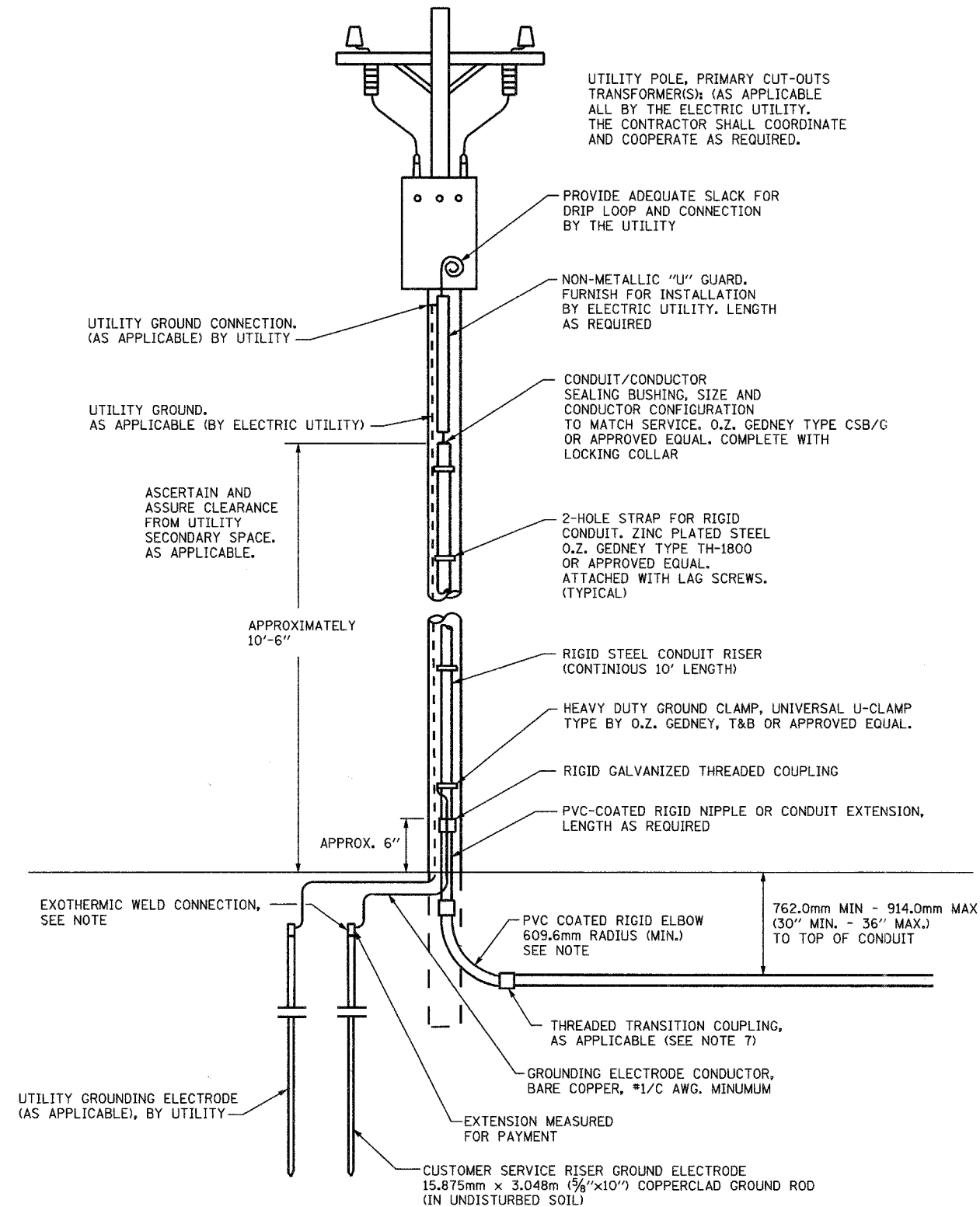
ILLINOIS DEPARTMENT OF TRANSPORTATION  
VILLAGE OF SUGAR GROVE, KANE COUNTY  
INTERSECTION: GALENA BOULEVARD WITH  
ILLINOIS ROUTE 47  
**LIGHTING CONTROLLER, CONSOLE TYPE  
200 AMP, 240/480 VOLT, 1 PHASE, 3 WIRE**

SCALE: \_\_\_\_\_  
DATE: 4-20-08

DRAWN BY: HKO  
CHECKED BY: JS

REV 06-10-08  
REV 06-06-08

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
06-00017-00-PV		KANE	232	152



UTILITY POLE, PRIMARY CUT-OUTS TRANSFORMER(S); (AS APPLICABLE ALL BY THE ELECTRIC UTILITY. THE CONTRACTOR SHALL COORDINATE AND COOPERATE AS REQUIRED.

PROVIDE ADEQUATE SLACK FOR DRIP LOOP AND CONNECTION BY THE UTILITY

NON-METALLIC "U" GUARD. FURNISH FOR INSTALLATION BY ELECTRIC UTILITY. LENGTH AS REQUIRED

UTILITY GROUND CONNECTION. (AS APPLICABLE) BY UTILITY

UTILITY GROUND. AS APPLICABLE (BY ELECTRIC UTILITY)

CONDUIT/CONDUCTOR SEALING BUSHING, SIZE AND CONDUCTOR CONFIGURATION TO MATCH SERVICE. O.Z. GEDNEY TYPE CSB/G OR APPROVED EQUAL. COMPLETE WITH LOCKING COLLAR

ASCERTAIN AND ASSURE CLEARANCE FROM UTILITY SECONDARY SPACE. AS APPLICABLE.

2-HOLE STRAP FOR RIGID CONDUIT. ZINC PLATED STEEL O.Z. GEDNEY TYPE TH-1800 OR APPROVED EQUAL. ATTACHED WITH LAG SCREWS. (TYPICAL)

APPROXIMATELY 10'-6"

RIGID STEEL CONDUIT RISER (CONTINUOUS 10' LENGTH)

HEAVY DUTY GROUND CLAMP, UNIVERSAL U-CLAMP TYPE BY O.Z. GEDNEY, T&B OR APPROVED EQUAL.

RIGID GALVANIZED THREADED COUPLING

PVC-COATED RIGID NIPPLE OR CONDUIT EXTENSION, LENGTH AS REQUIRED

APPROX. 6"

EXOTHERMIC WELD CONNECTION, SEE NOTE

PVC COATED RIGID ELBOW 609.6mm RADIUS (MIN.) SEE NOTE

762.0mm MIN - 914.0mm MAX (30" MIN. - 36" MAX.) TO TOP OF CONDUIT

THREADED TRANSITION COUPLING, AS APPLICABLE (SEE NOTE 7)

GROUNDING ELECTRODE CONDUCTOR, BARE COPPER, #1/C AWG. MINIMUM

UTILITY GROUNDING ELECTRODE (AS APPLICABLE), BY UTILITY

EXTENSION MEASURED FOR PAYMENT

CUSTOMER SERVICE RISER GROUND ELECTRODE 15.875mm x 3.048m (5/8"x10") COPPERCLAD GROUND ROD (IN UNDISTURBED SOIL)

**PROPOSED SERVICE INSTALLATION  
POLE TOP MOUNTED TRANSFORMER**

**NOTES:**

1. THE PAY ITEM - "ELECTRIC UTILITY SERVICE CONNECTION" SHALL CONSIST OF PAYMENT FOR WORK PERFORMED BY THE ELECTRIC UTILITY COMPANY IN PROVIDING OR MODIFYING ELECTRIC SERVICE AS INDICATED.
2. THE PAY ITEM- "ELECTRIC SERVICE INSTALLATION" SHALL CONSIST OF ALL MATERIAL AND LABOR REQUIRED TO EXTEND, CONNECT OR MODIFY THE ELECTRIC SERVICE AS INDICATED OR SPECIFIED, WHICH IS OVER AND ABOVE THE WORK PERFORMED BY UTILITY COMPANY. THE SERVICE METER SOCKET, AS APPLICABLE, MOUNTED ELSEWHERE, SHALL BE INCLUDED IN THIS PAY ITEM.
3. SERVICE VOLTAGE SHALL BE AS INDICATED ELSEWHERE IN THE PROJECT DRAWINGS.
4. ELECTRIC SERVICE SPAN BETWEEN THE CONTROLLER AND UTILITY TRANSFORMER SHALL NOT EXCEED 250 FEET.
5. CONDUIT FOR SERVICE CABLE:
  - 5.1 CONDUIT DIAMETER AND CONDUIT FITTINGS SHALL BE SIZED WITH WIRE GAUGE AND MAXIMUM NUMBER OF CONDUCTORS PERMITTED BY NEC.
  - 5.2 CONDUIT FOR SERVICE CABLE SHALL BE AS INDICATED AND SHALL BE MEASURED SEPARATELY FOR PAYMENT.
  - 5.3 PVC COATED GALVANIZED STEEL CONDUIT AND CONDUIT FITTINGS OF THE SAME TYPE SHALL BE CAREFULLY INSTALLED WITH MANUFACTURER'S RECOMMENDED TOOLS AND PROCEDURES. DAMAGE TO CONDUIT SHALL BE REPAIRED WITH COMPATIBLE PVC TOUCH-UP MATERIAL TO THE SATISFACTION OF THE ENGINEER OR THE DAMAGED MATERIAL SHALL BE REPLACE AT NO ADDITIONAL COST.
  - 5.4 THE COUPLING (CONDUIT FITTING) SHALL BE A METALLIC TO NON-METALLIC ADAPTER BETWEEN STEEL CONDUIT AND PVC CONDUIT.
  - 5.5 CONCRETE COVER OVER THE ENCASED RACEWAY RUN SHALL BE A MINIMUM 3 INCH ALL AROUND.
6. PLANS AND DETAILS INDICATE THE GENERAL NATURE AND REQUIREMENTS OF THE UTILITY SERVICE WITHOUT EVERY ACCESSORY AND ATTACHMENT. THE CONTRACTOR IS OBLIGED TO THE CONTRACTOR SHALL COORDINATE IN FURNISHING ALL MATERIAL AND WORK NOT PROVIDED BY THE UTILITY FOR COMPLETING ELECTRIC SERVICE INSTALLATION.
7. THE CONTRACTOR SHALL OBTAIN INSPECTION AND APPROVAL BY THE ENGINEER AND UTILITY COMPANY BEFORE BACKFILL AND/OR ENCLOSING ELECTRIC SERVICE INSTALLATION.

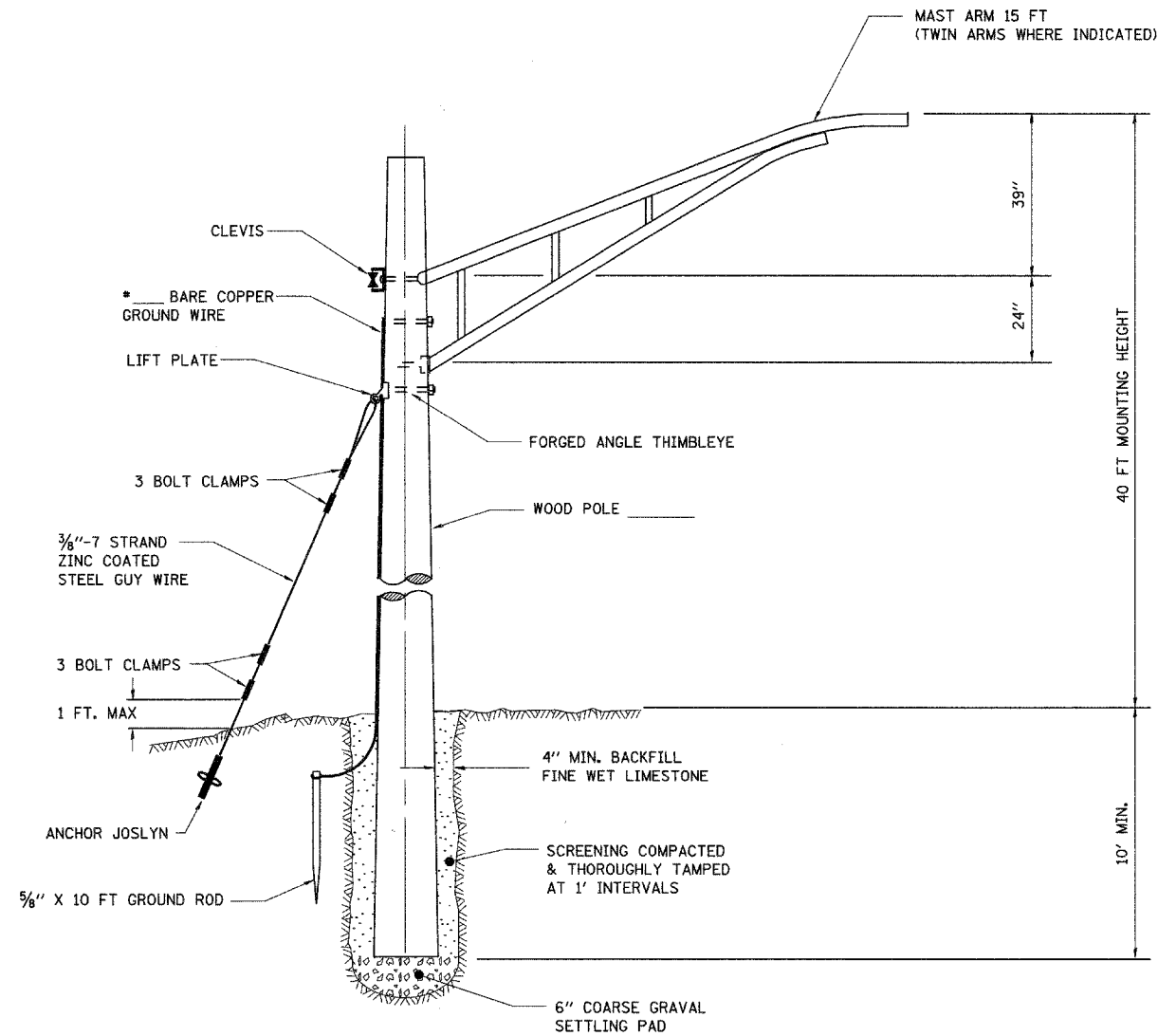


DETAILS FROM BEO/IDOT 05-21-05

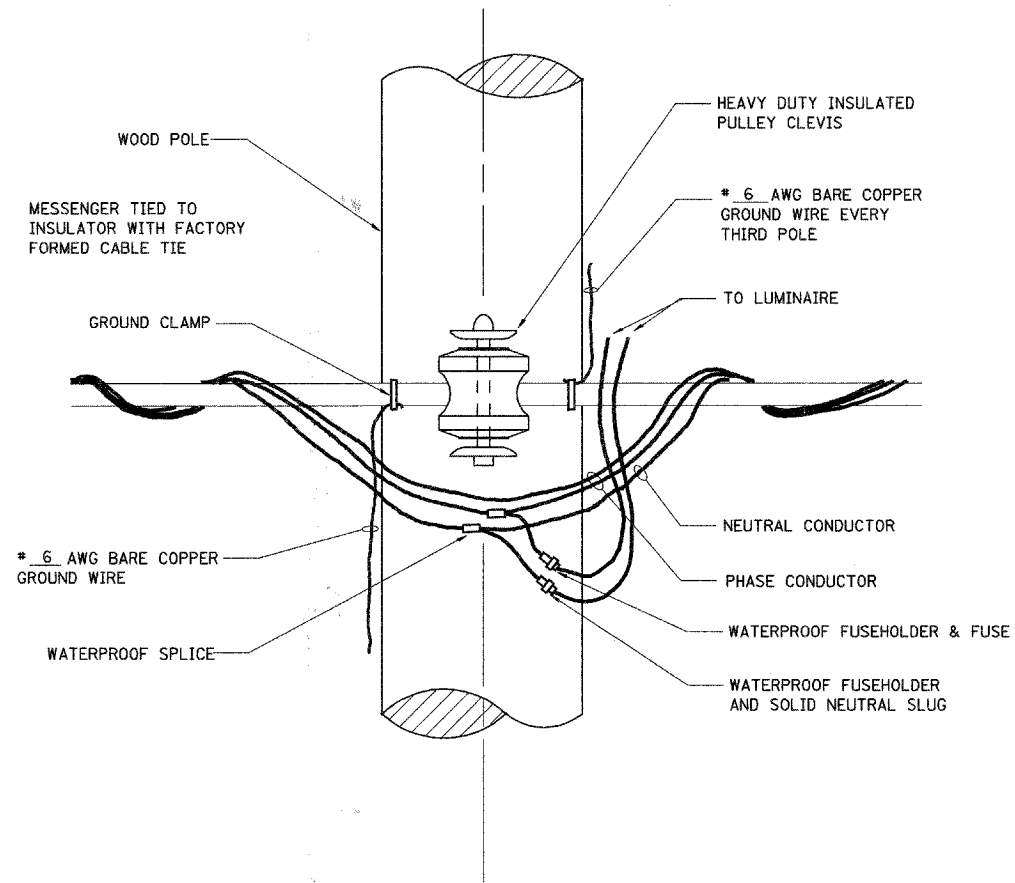
**Sunjoy Inc.**  
Area Lighting  
212 TIMBERCREST DRIVE  
SCHAUMBURG, ILLINOIS  
60193-1572

ILLINOIS DEPARTMENT OF TRANSPORTATION  
VILLAGE OF SUGAR GROVE, KANE COUNTY  
INTERSECTION: GALENA BOULEVARD WITH  
ILLINOIS ROUTE 47  
**ELECTRIC SERVICE INSTALLATION  
ABOVE GROUND**  
SCALE: NONE  
DATE: 4-20-08  
DRAWN BY: HKQ  
CHECKED BY: JS  
BE-220

F. A. RITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
06-00017-00-PV		KANE	232	153
STA.	TO STA.			
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		



**TEMPORARY TRAFFIC SIGNAL WOOD POLE WITH ROADWAY LIGHTING MAST ARM DETAILS**



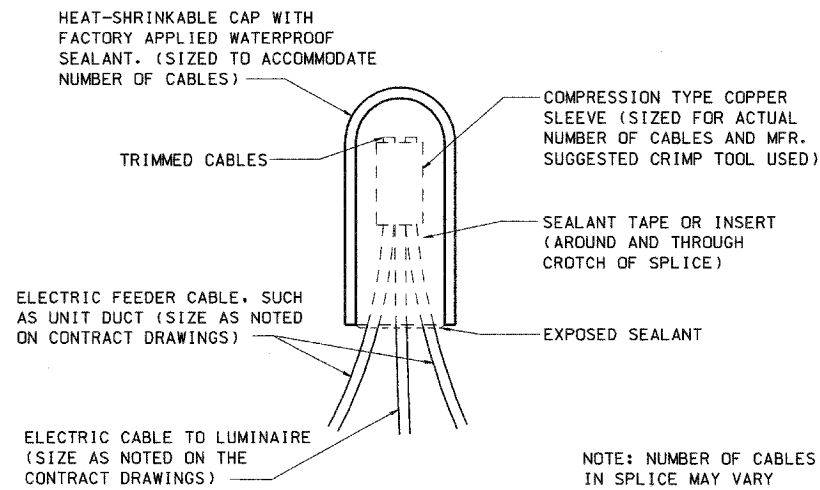
**TEMPORARY TRAFFIC SIGNAL WOOD POLE WITH MAST ARM AERIAL WIRING DETAILS**

\* TEMPORARY TRAFFIC SIGNAL WOOD POLE LOCATION, PLEASE REFER TO PROJECT TEMPORARY TRAFFIC SIGNAL PLANS.

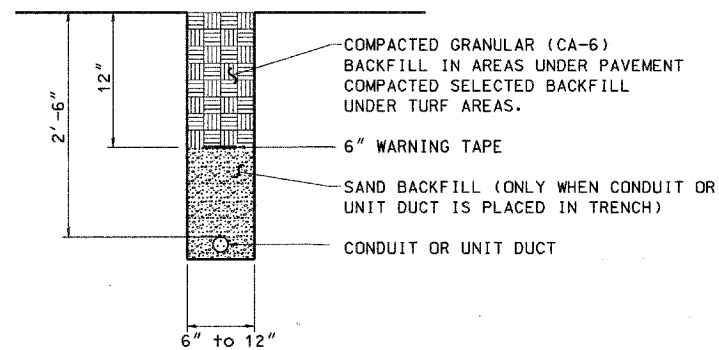


<p>Sunjoy Inc. Area Lighting 212 TIMBERCREST DRIVE SCHLAUBURG, ILLINOIS 60193-1572</p>	REVISIONS NAME      DATE		ILLINOIS DEPARTMENT OF TRANSPORTATION INTERSECTION: GALENA BOULEVARD WITH ILLINOIS ROUTE 47 <b>TEMPORARY LIGHT POLE DETAILS</b> SCALE: NONE DATE: **DATE** DRAWN BY: JEB CHECKED BY:

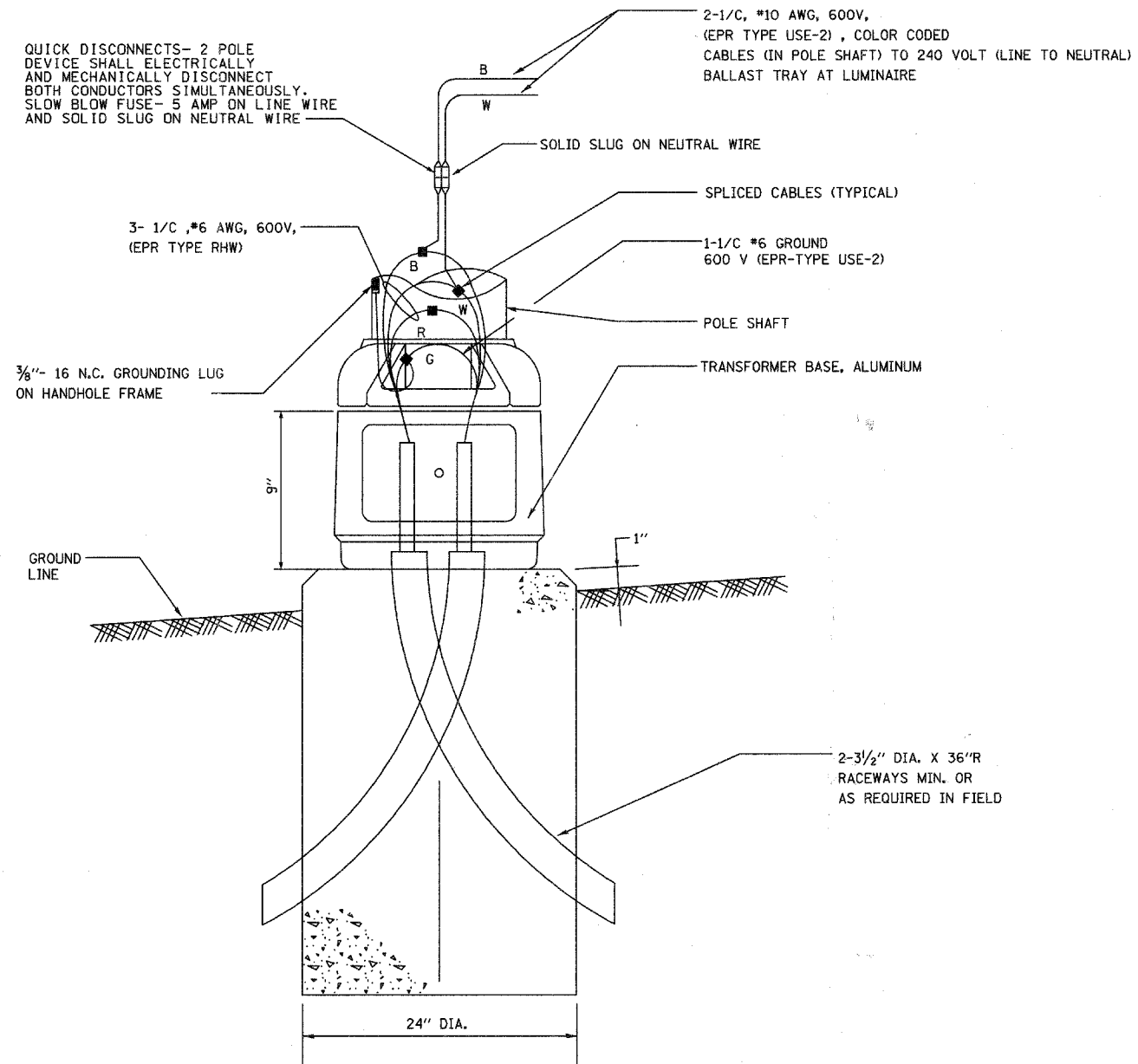
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00017-00-PV	KANE	232	154



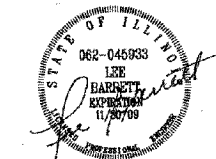
**SPLICING ELECTRIC CABLE**



**TRENCH AND BACKFILL**



**POLE BASE WIRING WITH QUICK DISCONNECTS AND BREAKAWAY DEVICE TRANSFORMER BASE, U/L LISTED**

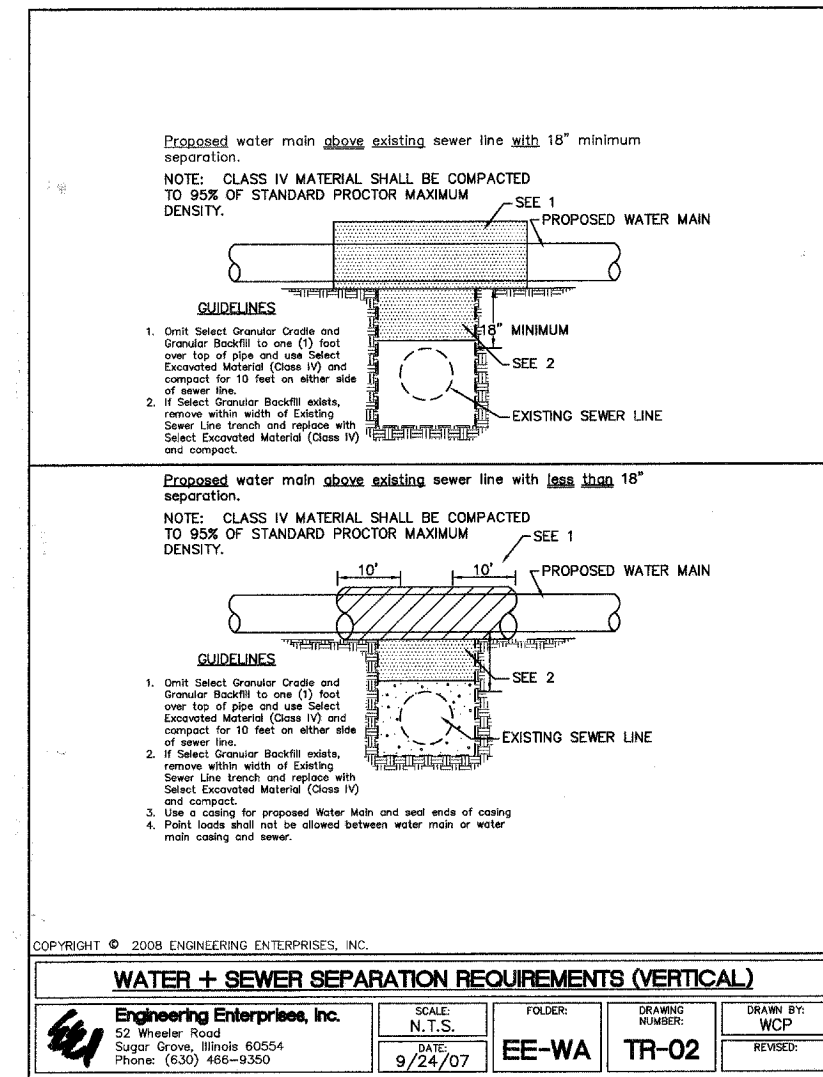
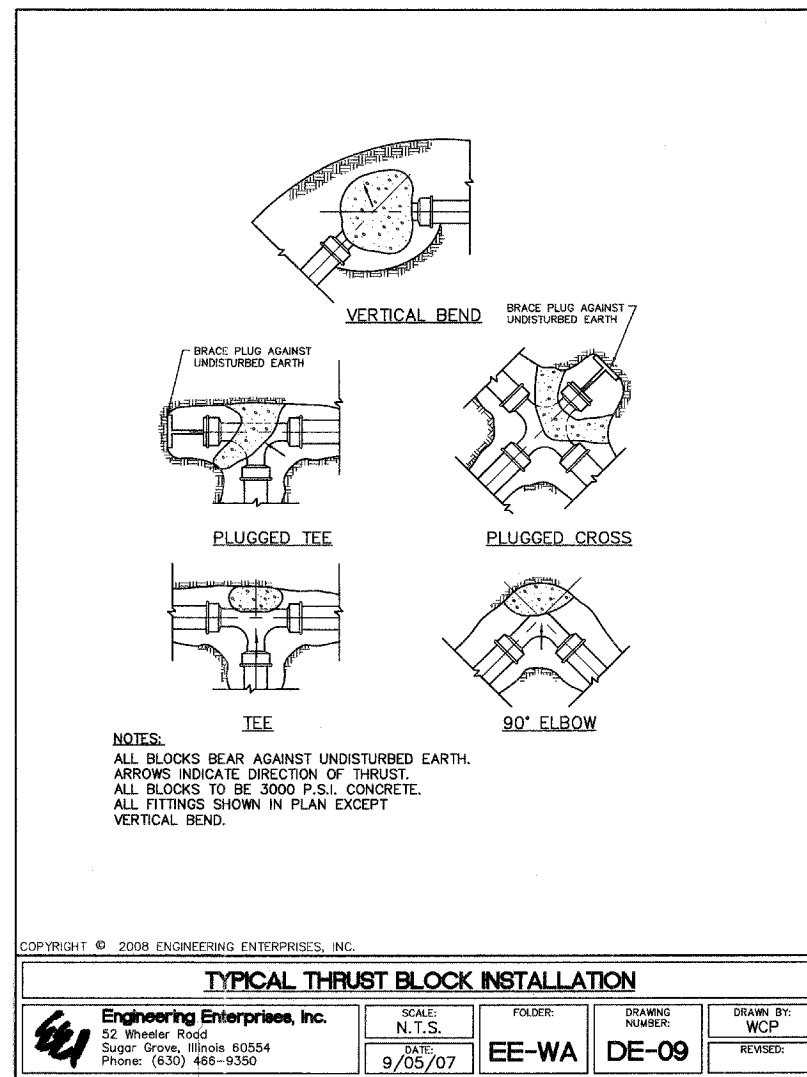
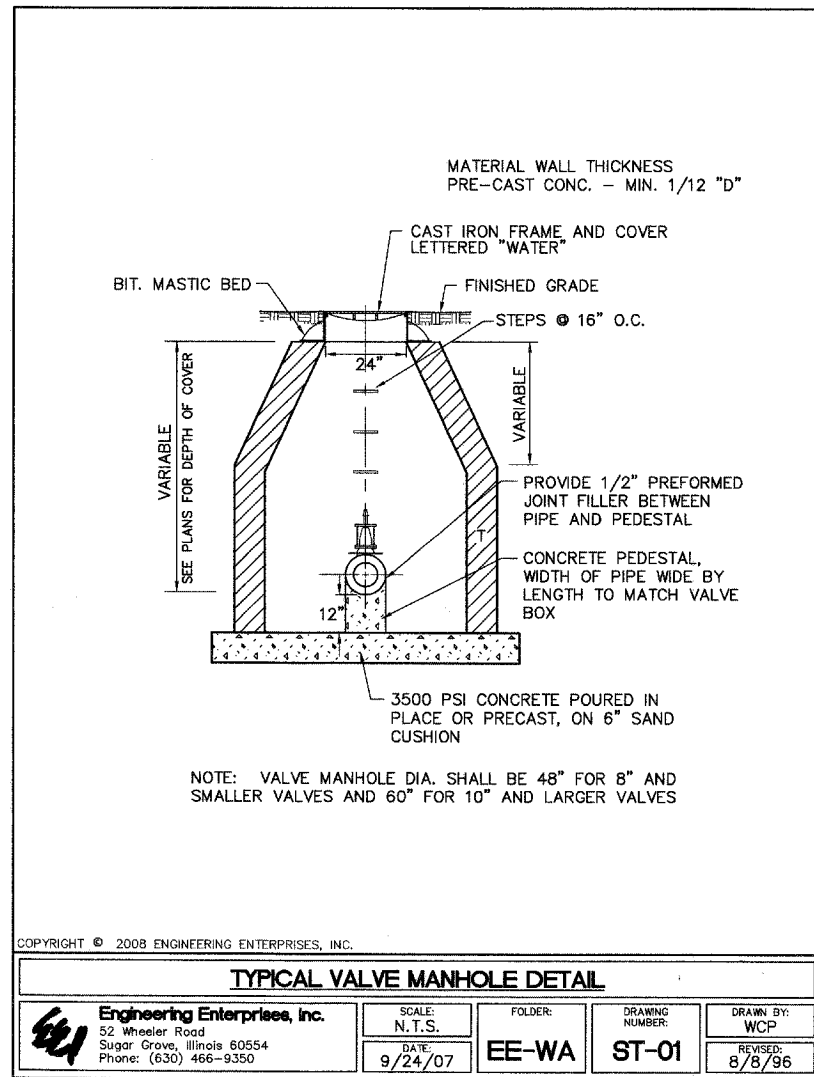


**Sunjoy Inc.**  
Area Lighting  
212 TIMBERCREST DRIVE  
SCHALMBURG, ILLINOIS  
60193-1572

ILLINOIS DEPARTMENT OF TRANSPORTATION  
VILLAGE OF SUGAR GROVE, KANE COUNTY  
INTERSECTION: GALENA BOULEVARD WITH ILLINOIS ROUTE 47  
**ELECTRICAL DETAILS**  
SCALE: NONE  
DATE: 4-20-08  
DRAWN BY: HKO  
CHECKED BY: JS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	06-00017-00-PV	KANE	232	155
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

PLAN	DATE
SURVEYED	
PLOTTED	
NOTE BOOK	
NO.	



PROFILE	DATE
SURVEYED	
PLOTTED	
NOTE BOOK	
NO.	

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

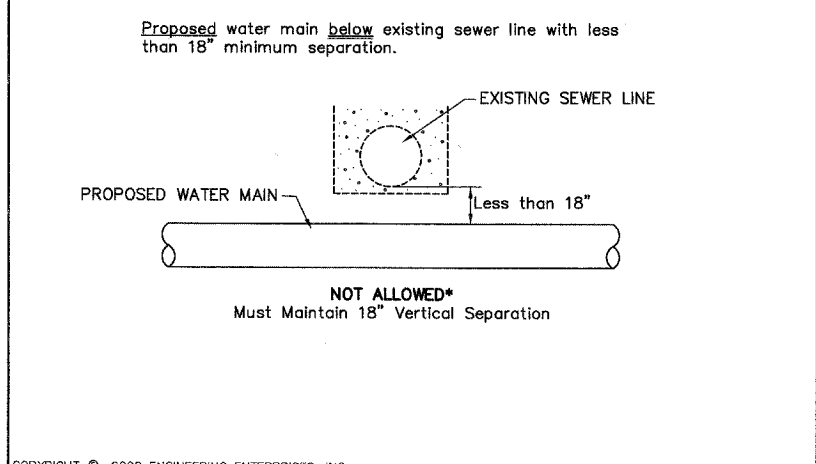
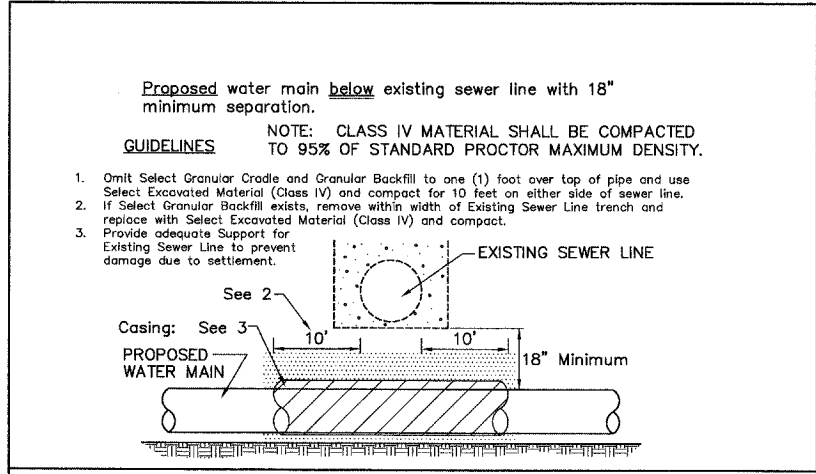
**TYPICAL DETAILS**

SCALE: NTS  
DATE: 02/07/08

DRAWN BY: KKP  
CHECKED BY: WBR

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	D6-00017-00-PV	KANE	232	156
STA.		TO STA.		
FED. ROAD DIST. NO. _		ILLINOIS FED. AID PROJECT		

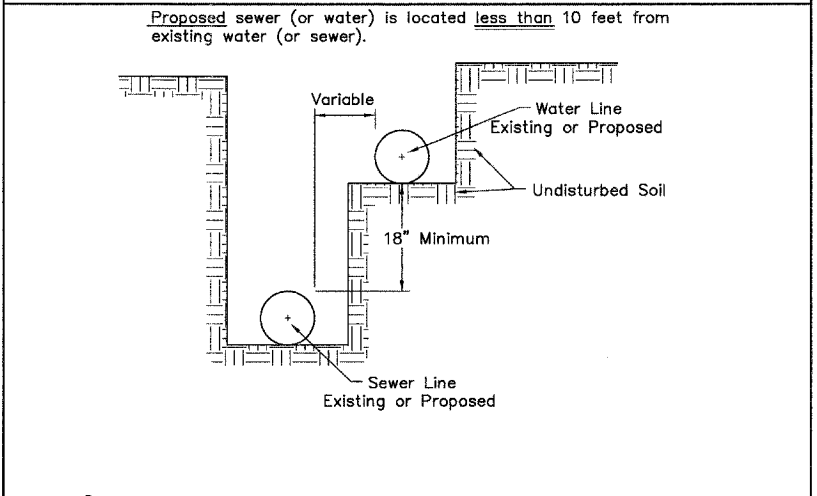
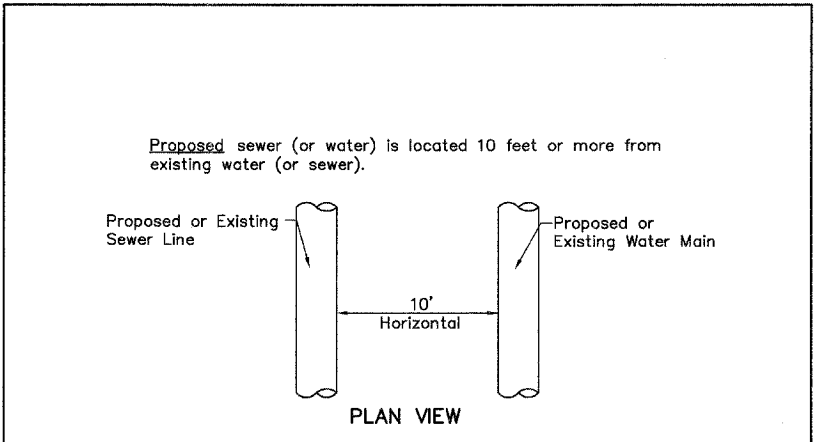
PLAN	DATE
BY	
REVISIONS	
NO.	
DESCRIPTION	
DATE	



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**WATER + SEWER SEPARATION REQUIREMENTS (VERTICAL)**

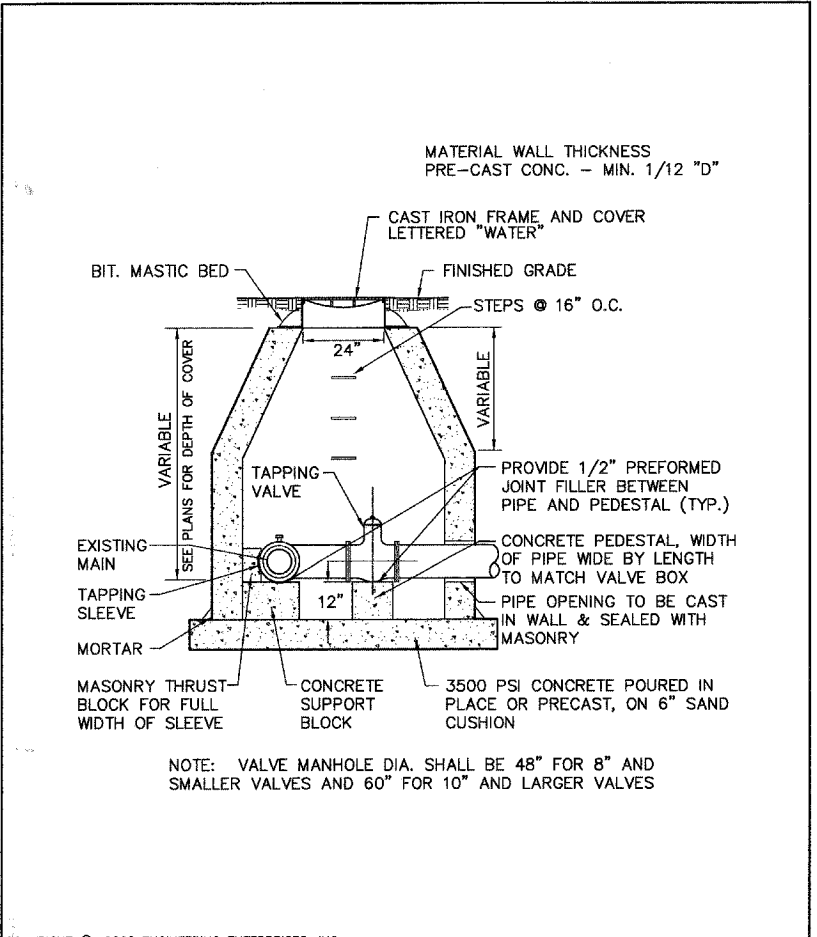
<b>Engineering Enterprises, Inc.</b> 52 Wheeler Road Sugar Grove, Illinois 60554 Phone: (630) 466-9350	SCALE: N.T.S.	FOLDER: EE-WA	DRAWING NUMBER: TR-03	DRAWN BY: WCP
	DATE: 9/24/07			REVISED:



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**WATER + SEWER SEPARATION REQUIREMENTS (HORIZONTAL)**

<b>Engineering Enterprises, Inc.</b> 52 Wheeler Road Sugar Grove, Illinois 60554 Phone: (630) 466-9350	SCALE: N.T.S.	FOLDER: EE-WA	DRAWING NUMBER: TR-05	DRAWN BY: WCP
	DATE: 9/24/07			REVISED:



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**WATER MAIN PRESSURE CONNECTION DETAIL**

<b>Engineering Enterprises, Inc.</b> 52 Wheeler Road Sugar Grove, Illinois 60554 Phone: (630) 466-9350	SCALE: N.T.S.	FOLDER: EE-WA	DRAWING NUMBER: WM-08	DRAWN BY: WCP
	DATE: 9/20/07			REVISED:

PROFILE	DATE
BY	
REVISIONS	
NO.	
DESCRIPTION	
DATE	

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<h1 style="text-align: center;">TYPICAL DETAILS</h1> <p style="text-align: right;">SCALE: NTS DATE: 02/07/08</p> <p style="text-align: right;">DRAWN BY: KKP CHECKED BY: WBR</p>





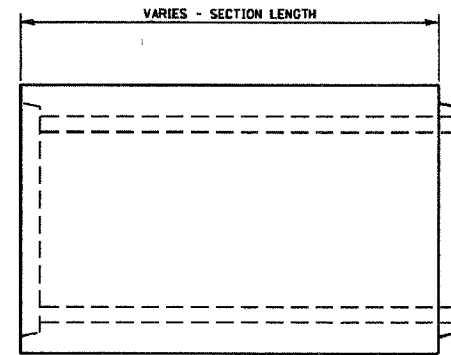
**Engineering Enterprises, Inc.**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	06-00017-00-PV	KANE	232	158
STA.		TO STA.		
FED. ROAD DIST. NO. _		ILLINOIS	FED. AID PROJECT	

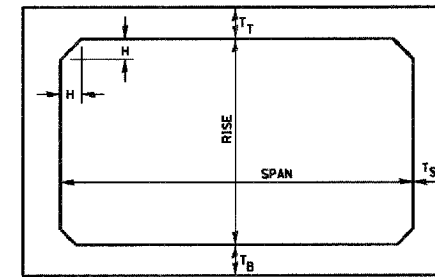
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STA.		TO STA.		
FED. ROAD DIST. NO. _		ILLINOIS	FED. AID PROJECT	

PLAN	SURVEYED	DATE
	PLOTTED	
	NOTE BOOK	
	NO.	
	BY	
	DATE	

PROFILE	SURVEYED	DATE
	PLOTTED	
	NOTE BOOK	
	NO.	
	BY	
	DATE	



**ELEVATION**



NOTE: THE HAUNCH DIMENSION H, IS EQUAL TO THE WALL THICKNESS T<sub>S</sub>.

**TYPICAL BOX SECTION**

SPAN, FEET	T <sub>T</sub> INCHES		T <sub>B</sub> INCHES		T <sub>S</sub> INCHES	
	M 259	M 273	M 259	M 273	M 259	M 273
3	4	7	4	6	4	4
4	5	7 1/2	5	6	5	5
5	6	8	6	7	6	6
6	7	8	7	7	7	7
7	8	8	8	8	8	8
8	8	8	8	8	8	8
9	9	9	9	9	9	9
10	10	10	10	10	10	10
11	11	11	11	11	11	11
12	12	12	12	12	12	12

**TYPICAL THICKNESSES**

GENERAL NOTES:  
MINIMUM COVER FOR BOX CULVERTS SHALL BE 6".

540-15

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<b>PRECAST CONCRETE BOX SECTION</b>
		DATE
		DRAWN BY
		CHECKED BY

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**TYPICAL DETAILS**

SCALE: NTS  
DATE: 02/07/08

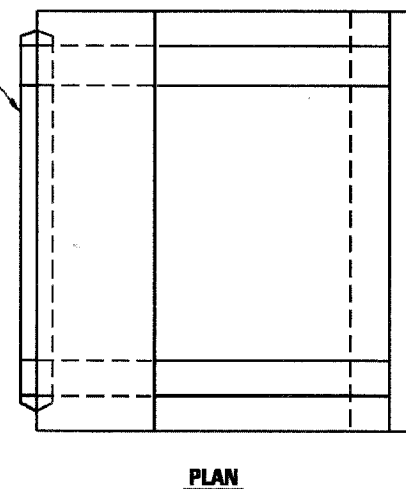
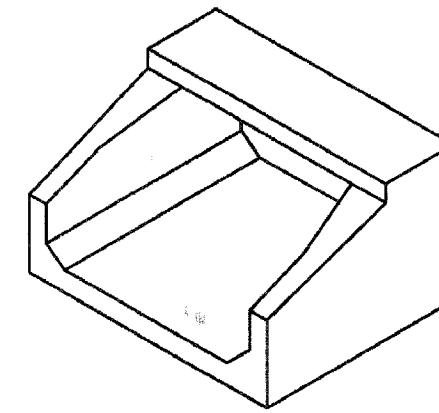
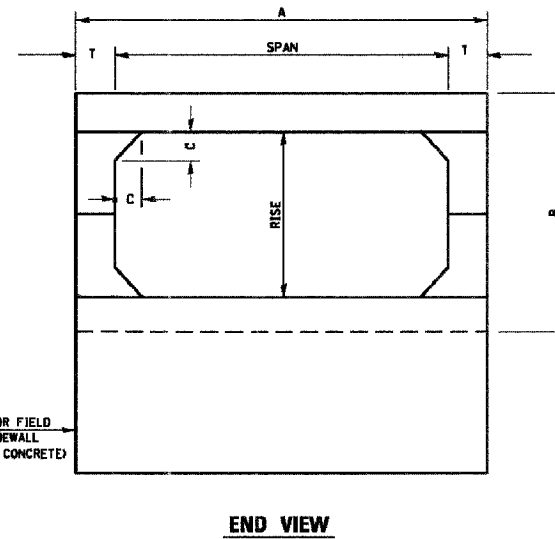
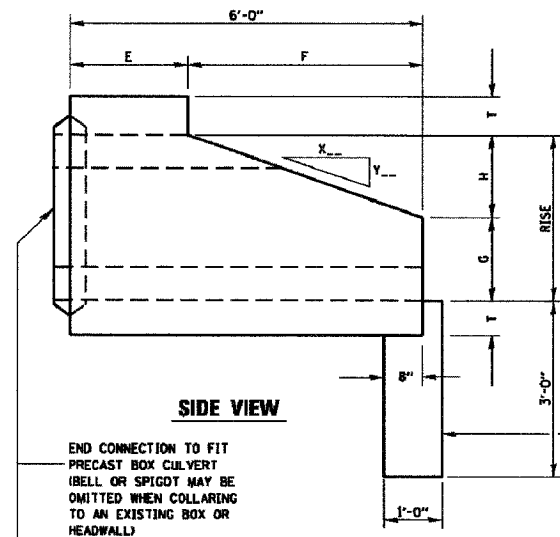
DRAWN BY: KKP  
CHECKED BY: WBR

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	D6-00017-00-PV	KANE	232	159
STA.		TO STA.		
FED. ROAD DIST. NO. - ILLINOIS		FED. AID PROJECT		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	D6-00017-00-PV	KANE	232	159
STA.		TO STA.		
FED. ROAD DIST. NO. - ILLINOIS		FED. AID PROJECT		

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	NOTE BOOK		
	NO.		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	NOTE BOOK		
	NO.		



SPAN X RISE	T (INCHES)	A (FT.-IN.)	B (FT.-IN.)	C (INCHES)	E (FT.-IN.)	F (FT.-IN.)	G (FT.-IN.)	H (FT.-IN.)	SLOPE
2' X 2'	4	2-8	2-8	4	3-0	3-0	1-0	1-0	3:1
3' X 2'	4	3-8	2-8	4	3-0	3-0	1-0	1-0	3:1
3' X 3'	4	3-8	3-8	4	2-0	4-0	1-8	1-4	3:1
4' X 2'	5	4-10	2-10	5	3-0	3-0	1-0	1-0	3:1
4' X 3'	5	4-10	3-10	5	2-0	4-0	1-8	1-4	3:1
4' X 4'	5	4-10	4-10	5	2-0	4-0	2-0	2-0	2:1
5' X 2'	6	6-0	3-0	6	3-0	3-0	1-0	1-0	3:1
5' X 3'	6	6-0	4-0	6	2-0	4-0	1-8	1-4	3:1
5' X 4'	6	6-0	5-0	6	2-0	4-0	2-0	2-0	2:1
5' X 5'	6	6-0	6-0	6	4-0	3-0	2-0	2-0	2:1
6' X 2'	7	7-2	3-2	7	3-0	3-0	1-0	1-0	3:1
6' X 3'	7	7-2	4-2	7	2-0	4-0	1-8	1-4	3:1
6' X 4'	7	7-2	5-2	7	2-0	4-0	2-0	2-0	2:1
6' X 5'	7	7-2	6-2	7	4-0	3-0	2-0	2-0	2:1
7' X 3'	8	8-4	4-4	8	4-0	1-8	1-4	3:1	
7' X 4'	8	8-4	5-4	8	4-0	2-0	2-0	2-0	2:1
7' X 5'	8	8-4	6-4	8	4-0	3-0	2-0	2-0	2:1
8' X 3'	8	9-4	4-4	8	4-0	1-8	1-4	3:1	
8' X 4'	8	9-4	5-4	8	4-0	2-0	2-0	2-0	2:1
8' X 5'	8	9-4	6-4	8	4-0	3-0	2-0	2-0	2:1
9' X 3'	9	10-6	4-6	9	4-0	1-8	1-4	3:1	
9' X 4'	9	10-6	5-6	9	4-0	2-0	2-0	2-0	2:1
9' X 5'	9	10-6	6-6	9	4-0	3-0	2-0	2-0	2:1
10' X 4'	10	11-8	5-9	10	4-0	2-0	2-0	2-0	2:1
10' X 5'	10	11-8	6-8	10	4-0	3-0	2-0	2-0	2:1

540-16

REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PRECAST CONCRETE  
 BOX CULVERT  
 END SECTION**  
 SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE \_\_\_\_\_  
 DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**TYPICAL DETAILS**

SCALE: NTS  
 DATE: 02/07/08

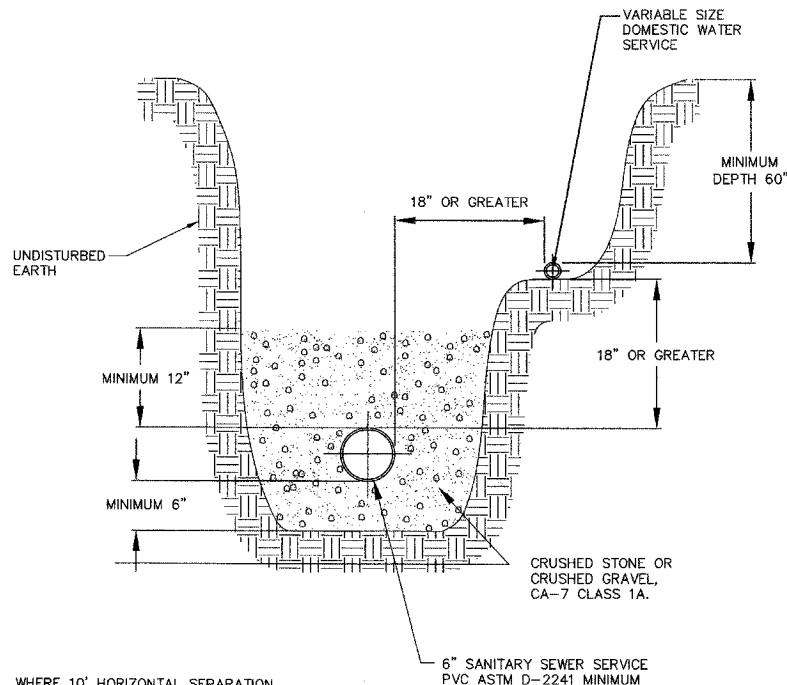
DRAWN BY: KKP  
 CHECKED BY: WBR

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	06-00017-00-PV	KANE	232	160
STA.		TO STA.		
FED. ROAD DIST. NO. _		ILLINOIS	FED. AID PROJECT	

PLAN	DATE
SURVEYED	
PLOTTED	
NOTED	
BY	
NO.	

PROFILE	DATE
SURVEYED	
PLOTTED	
NOTED	
BY	
NO.	

**REQUIRED WHEN A 10' MINIMUM SEPARATION IS NOT POSSIBLE FOR WATER AND SEWER SERVICES**

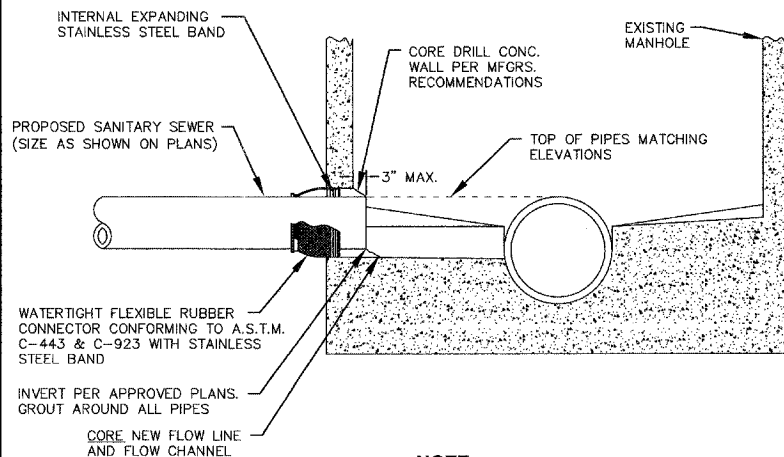


WHERE 10' HORIZONTAL SEPARATION AND MINIMUM DEPTH CANNOT BE ACHIEVED, RE-ROUTE WATER SERVICE IN ORDER TO ACHIEVE SEPARATION.

**SANITARY SEWER SERVICE & POTABLE WATER SERVICE SEPARATION**

**Fox Metro**  
Water Reclamation District

DESIGNED	FMWRD	REVISION	07
DRAWN	KWZ	A Revised 2004	01/05/04
APPROVED	JH	B Depth Note	02/03/05
DATE	08-28-00	C Note Revision	01/20/06
SCALE	NTS		
SHEET	1	CAD DWG.	REVISION
OF	1	JOB NO.	C

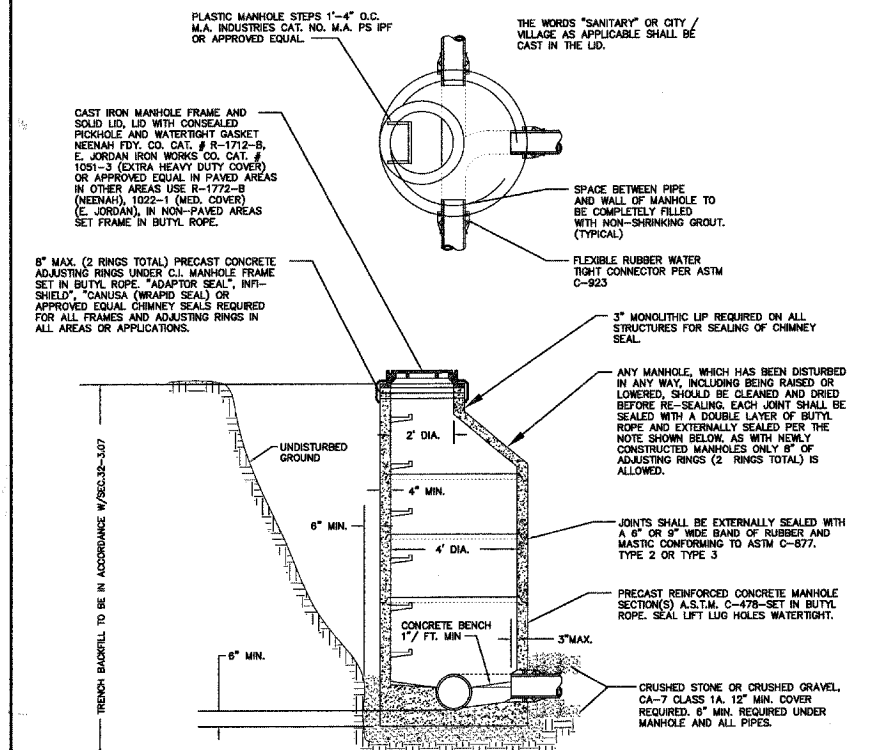


**NOTE**  
TO ESTABLISH NEW INVERT, MATCH THE ELEVATION OF THE TOP OF INCOMING PIPE TO EXISTING PIPE(S).

**PIPE TO MANHOLE CONNECTION**

**Fox Metro**  
Water Reclamation District

DESIGNED	FMWRD	REVISION	07
DRAWN	KWZ	B Revised 2004	01/05/04
APPROVED	JH	C Revision to Note	02/03/05
DATE	05-15-00	D Flow Channel Rev.	01/20/06
SCALE	NTS	E Grout Note	01/20/06
SHEET	1	CAD DWG.	REVISION
OF	1	JOB NO.	E



**NOTE**  
INVERTS OF ALL INCOMING PIPES SHALL BE DETERMINED BY MATCHING ELEVATIONS OF THE TOP OF ALL PIPES. A PRE-FORMED FLOW LINE SHALL BE MADE IN BENCH. NO FLOWS SHALL DISCHARGE ON THE BENCH.

**TYPE "A" MANHOLE**

**Fox Metro**  
Water Reclamation District

DESIGNED	FMWRD	REVISION	07
DRAWN	KWZ	B Revised 2004	01/05/04
APPROVED	JH	C External Seal Note	02/03/05
DATE	05-12-00	D Invert Notes	01/20/06
SCALE	NTS	E Chimney Seal Note	03/18/07
SHEET	1	CAD DWG.	REVISION
OF	1	JOB NO.	E

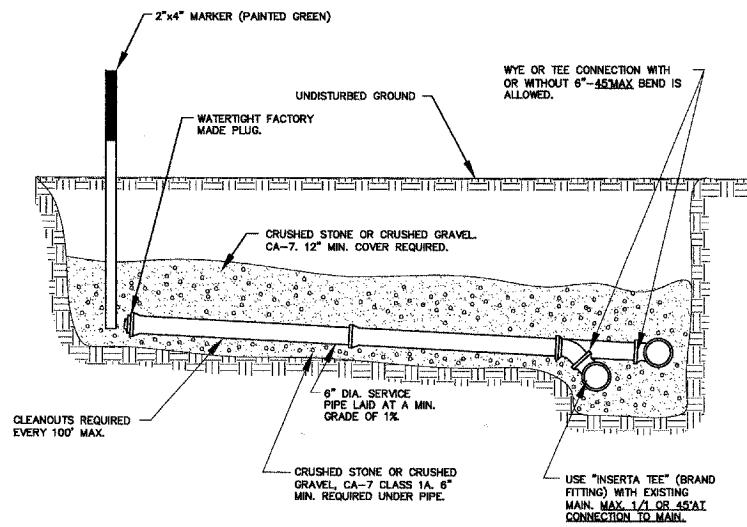
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
SCALE: NTS		DRAWN BY: KKP
DATE: 02/07/08		CHECKED BY: WBR

**TYPICAL DETAILS**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	06-00017-00-PV	KANE	232	161
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLAN	REVISION	DATE
NO.	BY	
	ALIGNED CHECKED	
	DATE FILED	
	CADD FILE NAME	

PROFILE	REVISION	DATE
NO.	BY	
	GRADES CHECKED	
	STRUCTURE	
	NOTATION	

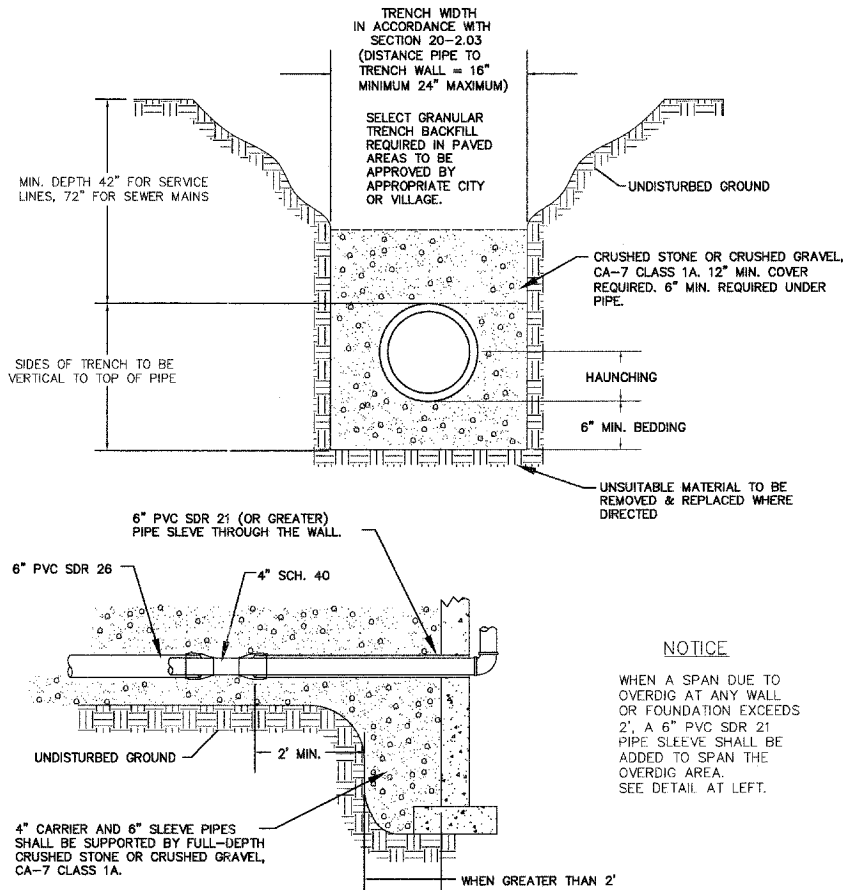


**NOTE**  
SELECT GRANULAR BACKFILL, REQUIRED UNDER PAVED AREAS, TO BE APPROVED BY APPROPRIATE CITY OR VILLAGE.

**GREATER THAN 45° CONNECTION NOT ALLOWED**  
**SERVICE CONNECTION**

**Fox Metro**  
Water Reclamation District

DESIGNED FMWRD	REVISION	07
DRAWN KWZ	B Revised 2004	01/05/03
APPROVED JH	C 45° Note Added	02/02/06
DATE 05-12-00	D Stone Note Added	01/30/06
SCALE NTS	E Inset & Note Revisions	03/19/07
SHEET 1	CAD DWG.	REVISION
OF 1	JOB NO.	E

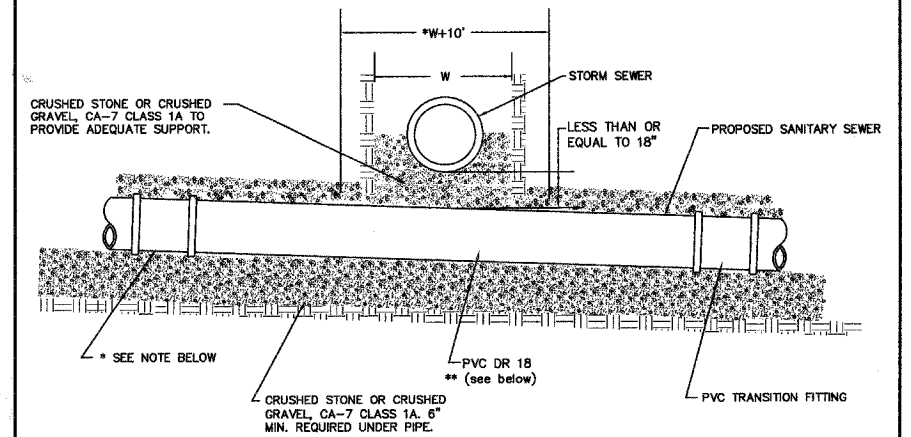


**NOTICE**  
WHEN A SPAN DUE TO OVERDIG AT ANY WALL OR FOUNDATION EXCEEDS 2', A 6" PVC SDR 21 PIPE SLEEVE SHALL BE ADDED TO SPAN THE OVERDIG AREA. SEE DETAIL AT LEFT.

**TYPICAL TRENCH DETAIL FOR SANITARY SERVICES & MAINS**

**Fox Metro**  
Water Reclamation District

DESIGNED FMWRD	REVISION	07
DRAWN KWZ	B Dimension Revision	12/11/01
APPROVED JH	C Revised 2004	01/05/04
DATE 05-12-00	D Stone Note	01/30/06
SCALE NTS	E 07 Revisions	03/19/07
SHEET 1	CAD DWG.	REVISION
OF 1	JOB NO.	E



**NOTE**  
\* SHOW DR 18 THROUGHOUT CONFLICT AREA, (PER ABOVE) TO ANY PROPOSED MANHOLE IF SAID STRUCTURE IS WITHIN 30' OF CENTERLINE OF THE CROSSING.  
\*\* IN LIEU OF ABOVE STANDARD METHOD, DR 18 MAY BE INSTALLED MANHOLE TO MANHOLE.

**SANITARY SEWER AT STORM SEWER CROSSING**

**Fox Metro**  
Water Reclamation District

DESIGNED FMWRD	REVISION	07
DRAWN KWZ	C Note Revision	01/05/03
APPROVED JH	D Revised 2004	01/05/04
DATE 05-12-00	E Note Revision	01/30/06
SCALE NTS	F Fitting & Note Revision	03/19/07
SHEET 1	CAD DWG.	REVISION
OF 1	JOB NO.	F

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION	
NAME	DATE		
		<b>TYPICAL DETAILS</b>	
SCALE: NTS		DRAWN BY: KKP	
DATE: 02/07/08		CHECKED BY: WBR	



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	06-00017-00-PV	KANE	232	163
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLAN	SURVEYED	DATE
	PLOTTED	
	REVISIONS	
	BY	
	DATE	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	REVISIONS	
	BY	
	DATE	
	NO.	

Plotfile: May 28, 2008 @ 11:01 AM By: Terri Seider-Johnson - Tab: 163 DOT SIGN (22434)

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

POST NO.	SECTION	IS-PT.	IS-SP.	IS-ET.	SHEET NO.

SHEET NO. \_\_\_\_\_

TOTAL SHEETS \_\_\_\_\_

Contract # \_\_\_\_\_

**ELEVATION**

**LOCATION SKETCH**

**FUSE PLATE DETAIL**  
(Install with notches down.)

FUSE PLATE DATA			
N = Bolt Diameter	G	H	
1/2"	2"	1 1/8"	
5/8"	2 1/4"	1 3/8"	
3/4"	2 1/2"	1 5/8"	
7/8"	2 3/4"	1 7/8"	
1"	3"	1 9/8"	
1 1/8"	3 1/4"	1 3/4"	
1 1/4"	3 1/2"	1 7/8"	

**SECTION D-D**

**DETAIL H**

**STIFFENER PLATE DETAIL**  
(See table for dimensions.)

**SECTION C-C**

**ELEVATION  
SIGN POST & STUB POST**

**SECTION A-A      SECTION B-B**

**SHIM DETAIL**

**GENERAL NOTES**

Posts shall be plumbed by using shims with post-to-stub post connection bolts snug tight only. Final tightening of all High Strength Bolts shall be in accordance with Article 727.05 and threads at the junction of the bolt and nut shall be burred or center punched to prevent the nut from loosening.

LOADING: 80 m.p.h. wind with 30% gust factor, normal to sign.

DESIGN STRESSES:  
Structural steel - 20,000 p.s.i.  
Reinforcing steel - 20,000 p.s.i.  
Concrete - 1,400 p.s.i.  
Footing soil pressure - 2,000 p.s.f.

After fabrication, the post, fuse plate and upper 6" min. of the stub post shall be hot-dip galvanized in accordance with AASHTO M11. All bolts, nuts and washers shall be hot-dip galvanized in accordance with AASHTO M232.

Work this sheet with Base Sheet BAW-A-2.

**BREAK-AWAY WIDE FLANGE  
STEEL SIGN POST DETAILS**

(Sheet 1 of 2)

DESIGNED -	208
CHECKED -	EXAMINED
DRAWN -	PASSED
CHECKED -	ENGINEER OF BRIDGE DESIGN
	MANAGER OF BRIDGE AND STRUCTURES

NUMBER	REVISION	DATE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

## TYPICAL DETAILS

SCALE: NTS      DRAWN BY: KKP  
DATE: 02/07/08      CHECKED BY: WBR

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	06-00017-00-PV	KANE	232	164
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

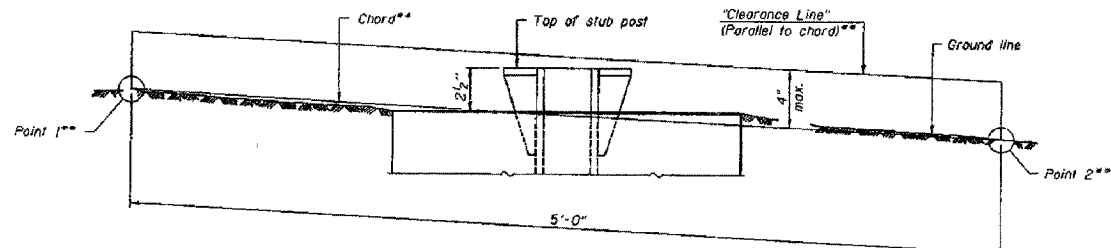
PROJECT NO.	SECTION	DATE	JOB	PSI	SHEET NO.
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	SHEETS		

Contract #

POST	CONCRETE FOUNDATION TABLE						POST TO STUB POST CONNECTION DATA										FUSE PLATE DATA					
	Foundation		Reinforcement		Stub Post Length	Stub Post Diameter	A	B	C	D	E	I <sub>1</sub>	I <sub>2</sub>	R	W	J	K	L	I <sub>3</sub>			
	Diameter	Minimum Depth	Concrete (1) cu. yds.	Vertical Bars Length																Bar Spirals Diameter Length	lbs. (2)	Ball Size
W6x9	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-3"	3/8" x 3/4"	6"	2 1/2"	1 1/2"	3 1/2"	1 1/2"	3/4"	1/2"	5/16"	1/4"	4"	2 1/4"	1 1/8"	1/4"
W6x15	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-6"	3/8" x 3/4"	6"	2 1/4"	1 1/2"	3 1/2"	1 1/2"	3/4"	1/2"	5/16"	1/4"	6"	3 1/2"	1 1/8"	1/4"
W8x18	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-6"	3/8" x 3/4"	6"	2 1/2"	1 3/8"	3 1/4"	1 3/8"	1"	1/2"	5/16"	5/8"	5 1/4"	2 3/4"	1 1/2"	1/8"
W10x22	2'-6"	6'-6"	1.18	6'-3"	2'-2 1/2"	105'-0"	92	3'-0"	3/8" x 3/4"	6"	2 1/2"	1 3/8"	3 1/4"	1 3/8"	1"	1/2"	5/16"	5/8"	5 3/4"	2 3/4"	1 1/2"	1/8"
W10x26	2'-6"	7'-0"	1.27	6'-9"	2'-2 1/2"	112'-0"	98	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	3/4"	5/16"	3/8"	5 3/4"	2 3/4"	1 1/2"	5/8"
W12x26	2'-6"	7'-9"	1.41	7'-6"	2'-2 1/2"	119'-0"	107	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	3/4"	5/16"	3/8"	6 3/4"	3 1/2"	1 1/2"	5/8"
W14x30	3'-0"	7'-3"	1.90	7'-0"	2'-8 1/2"	145'-0"	113	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	3/4"	5/16"	3/8"	6 3/4"	3 1/2"	1 1/2"	5/8"
W14x36	3'-0"	8'-0"	2.09	7'-9"	2'-8 1/2"	153'-0"	122	3'-6"	1" x 4 1/2"	7 1/2"	3"	1 1/2"	4"	1 1/2"	1"	3/4"	5/16"	3/8"	6 3/4"	3 1/2"	1 1/2"	5/8"
W16x45	3'-0"	8'-6"	2.23	8'-3"	2'-8 1/2"	162'-0"	130	3'-6"	1" x 4 1/2"	7 1/2"	3"	1 1/2"	4"	1 1/2"	1"	3/4"	5/16"	3/8"	6 3/4"	3 1/2"	1 1/2"	5/8"

\*Dimensional changes required for varying site conditions shall be approved by the Engineer.

POST	FUSE PLATE BOLT SIZE																							
	Sign Height																							
	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-0"	14'-0"	15'-0"	16'-0"	17'-0"	18'-0"	19'-0"	20'-0"	21'-0"	22'-0"	23'-0"	24'-0"			
W6x9	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
W6x15	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	
W8x18	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	
W10x22	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	
W10x26	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	
W12x26	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	
W14x30	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	
W14x36	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	
W16x45	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	



**ELEVATION**  
**GROUND LINE & STUB POST**  
\*\* For all "Point 1" and "Point 2" locations, "Clearance Line" must be at or above top of stub post.

- ① Quantity includes all concrete necessary for one foundation.
- ② Includes reinforcement bars and spiral hooping for one foundation.

**BREAK-AWAY WIDE FLANGE STEEL SIGN POST TABLES**

(Sheet 2 of 2)

DESIGNED -	209
CHECKED -	EXAMINED
DRAWN -	PASSED
CHECKED -	ENGINEER OF BRIDGES AND STRUCTURES

BAW-A-2      6/01/2007

NUMBER	REVISION	DATE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**TYPICAL DETAILS**

SCALE: NTS      DRAWN BY: KKP  
DATE: 02/07/08      CHECKED BY: WBR

PLAN	DATE
BY	
DATE	
BY	
DATE	
BY	
DATE	

PROFILE	DATE
BY	
DATE	
BY	
DATE	
BY	
DATE	



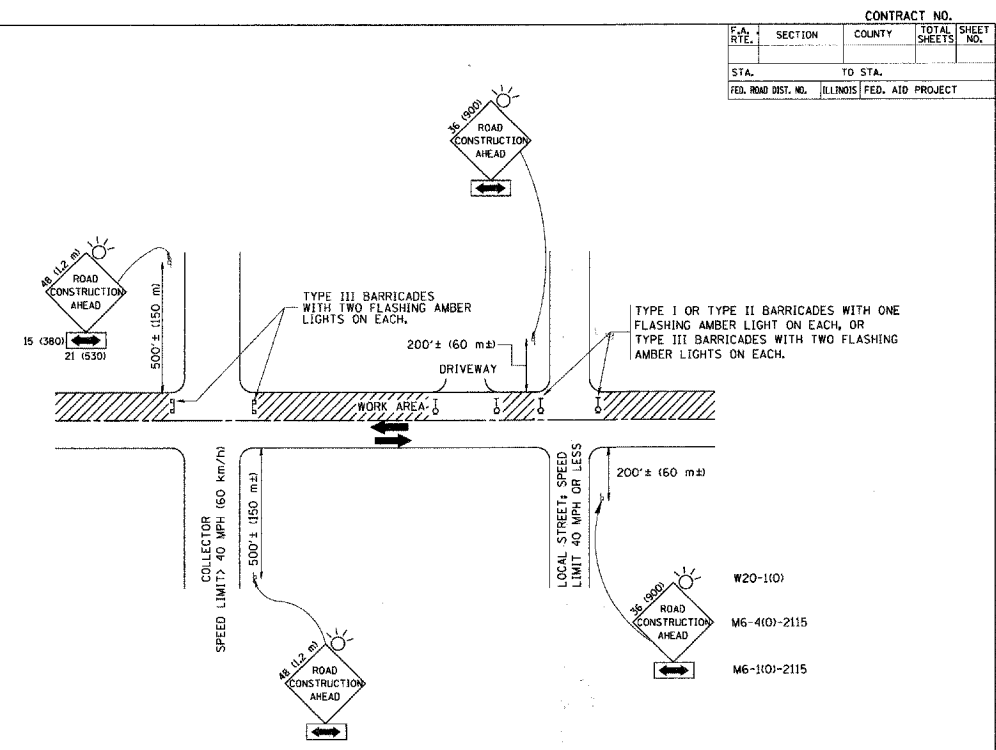
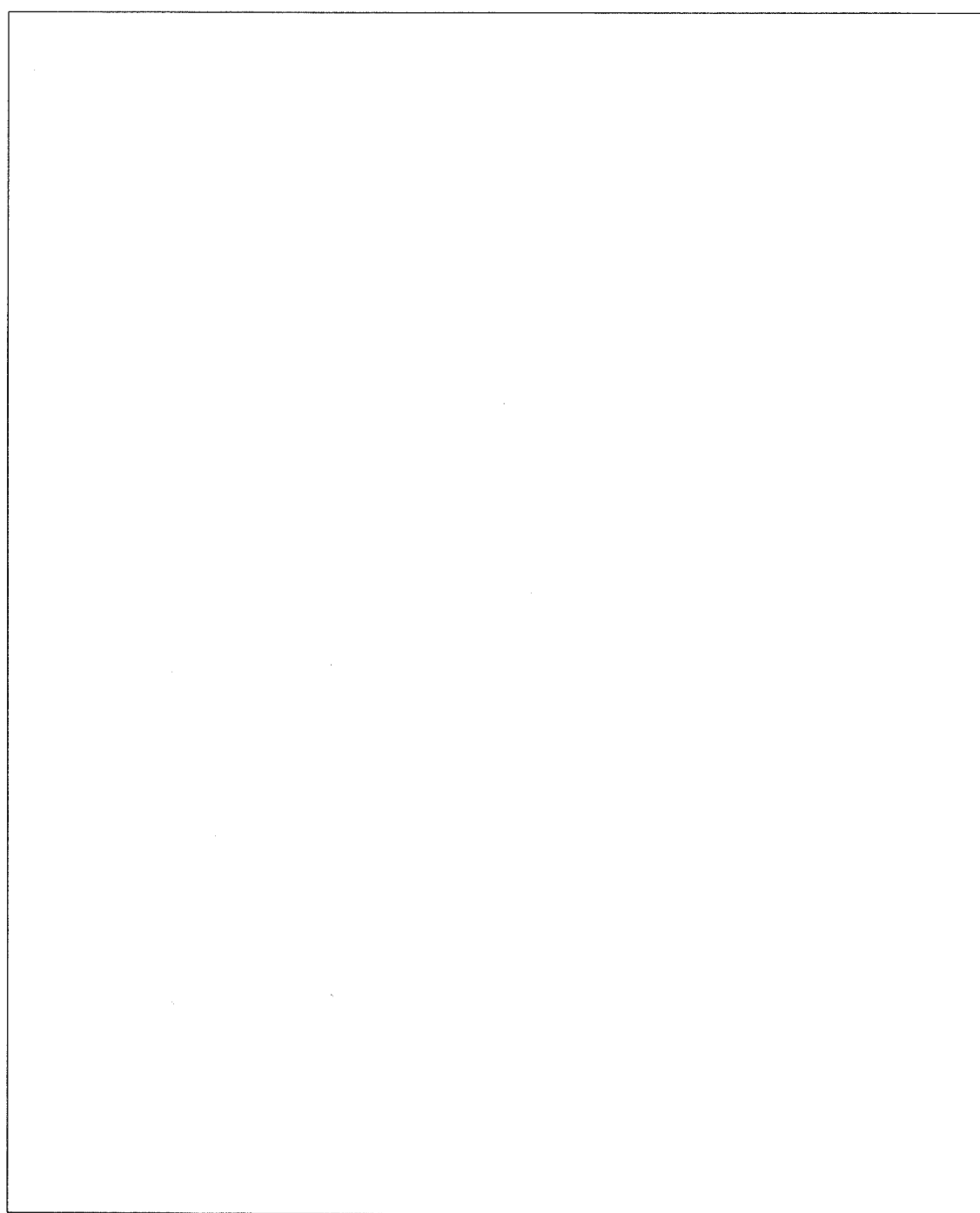


F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	06-00017-00-PV	KANE	232	165
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO. OF W.A. CHECKED	
	CADD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO. OF W.A. CHECKED	
	STRUCTURE NOTATION CHFD	

PLOT DATE = 04/27/07  
 FILE NAME = K:\Users\johndep...  
 USER NAME = johndep...  
 USER MAIL = johndep...



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

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
  - 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
    - a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
    - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
  - 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
    - a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
    - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
  - 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:
  - USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

REVISIONS	
NAME	DATE
LHA	6/7/95
T. RAMMACHER	03/08/94
J. OBERLE	10/18/95
A. HOUSEH	03/06/96
A. HOUSEH	10/15/96
T. RAMMACHER	01/06/00

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC CONTROL AND PROTECTION  
 FOR  
 SIDE ROADS, INTERSECTIONS, AND  
 DRIVEWAYS

SCALE: NONE  
 DRAWN BY: KKP  
 CHECKED BY: WBR  
 TC-10

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

TYPICAL DETAILS

SCALE: NTS  
 DATE: 02/07/08  
 DRAWN BY: KKP  
 CHECKED BY: WBR

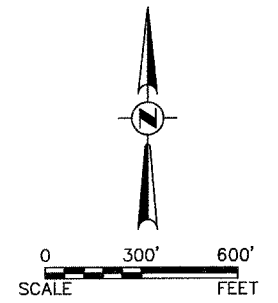






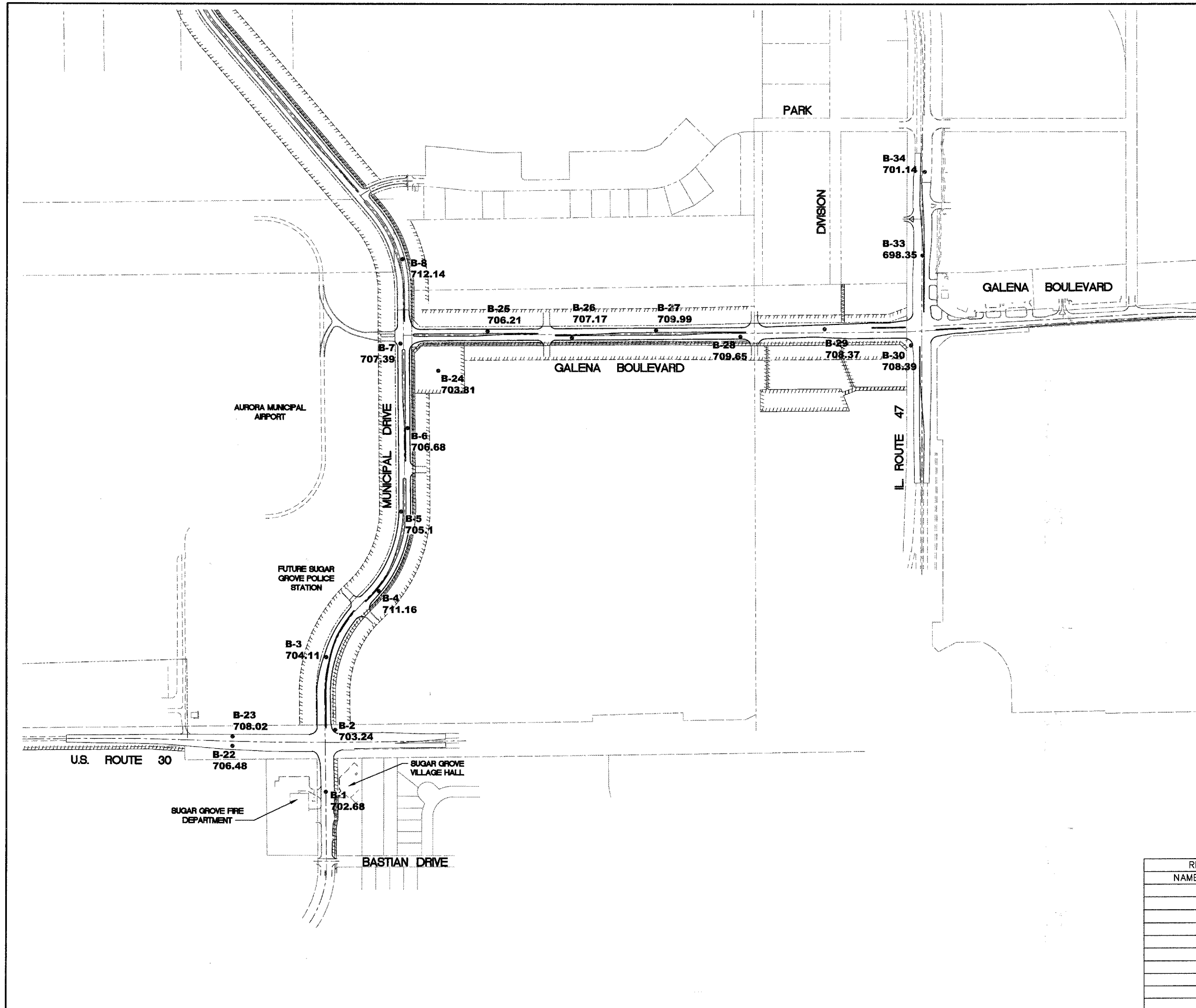
**Engineering Enterprises, Inc.**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	06-00017-00-PV	KANE	232	169
STA.		TO STA.		
FED. ROAD DIST. NO. _		ILLINOIS	FED. AID PROJECT	



PLAN	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	REVISIONS		
	RT. OF WAY CHECKED		
	CADD FILE NAME		

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



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

## SOIL BORING PLAN

SCALE: 1" = 300'  
DATE: 02/07/08

DRAWN BY: KKP  
CHECKED BY: WBR



F.A. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	06-00017-00-PV	KANE	232	170
STA.		TO STA.		
FED. ROAD DIST. NO. -		ILLINOIS FED. AID PROJECT		

PLAN	DATE	BY
SURVEYED		
PLOTTED		
NOTED		
NOTE BOOK NO.		
CADD FILE NAME		

LOG OF BORING NO. 1									
CLIENT		PROJECT							
Engineering Enterprises Inc		Proposed Municipal Drive & Galena Blvd. Extension							
SITE		SUGAR GROVE, ILLINOIS							
DESCRIPTION		SAMPLES		TESTS					
DEPTH, ft.	USCS SYMBOL	NUMBER	TYPE	RECOVERY, in.	SPT-N** BLOWS /ft.	WATER CONTENT, %	DRY UNIT WT,pcf	UNCONFINED STRENGTH, psf	ALTERBERG LIMITS, %
Approx. Surface Elev.: 702.68 ft									
0.7	PA								
1.3	SS	1	10	4	8				
3.5	PA								
5	CL-CH 2	SS	10	8	26			8000*	
6.5	ML	3	PA	8	17				
7.5	PA								
10	GL-ML 4	SS	10	8	10			3000*	
BOTTOM OF BORING									

LOG OF BORING NO. 2									
CLIENT		PROJECT							
Engineering Enterprises Inc		Proposed Municipal Drive & Galena Blvd. Extension							
SITE		SUGAR GROVE, ILLINOIS							
DESCRIPTION		SAMPLES		TESTS					
DEPTH, ft.	USCS SYMBOL	NUMBER	TYPE	RECOVERY, in.	SPT-N** BLOWS /ft.	WATER CONTENT, %	DRY UNIT WT,pcf	UNCONFINED STRENGTH, psf	ALTERBERG LIMITS, %
Approx. Surface Elev.: 703.24 ft									
0.7	PA								
3.5	PA								
5	CL 2	SS	9	10	18			3500*	
5	CL-ML 3	SS	10	11	13			4000*	
9	PA								
9.5	SP	4	SS	9	20				
14	SC-SM 5	SS	10	9	11				
15	PA								
20	SC-SM 6	SS	10	7	12				
BOTTOM OF BORING									

LOG OF BORING NO. 3									
CLIENT		PROJECT							
Engineering Enterprises Inc		Proposed Municipal Drive & Galena Blvd. Extension							
SITE		SUGAR GROVE, ILLINOIS							
DESCRIPTION		SAMPLES		TESTS					
DEPTH, ft.	USCS SYMBOL	NUMBER	TYPE	RECOVERY, in.	SPT-N** BLOWS /ft.	WATER CONTENT, %	DRY UNIT WT,pcf	UNCONFINED STRENGTH, psf	ALTERBERG LIMITS, %
Approx. Surface Elev.: 704.11 ft									
0.4	PA								
3	CL-CH 1	SS	10	6	29			3000*	
3	PA								
5	CL 2	SS	8	8	26			2000*	
5.5	PA								
7.5	CL-CH 3	SS	10	7	28			1500*	
7.5	PA								
10	ML 4	SS	9	8	18				
BOTTOM OF BORING									

PROFILE	DATE	BY
SURVEYED		
PLOTTED		
NOTE BOOK NO.		
STRUCTURE NOTATIONS CHK'D		

LOG OF BORING NO. 4									
CLIENT		PROJECT							
Engineering Enterprises Inc		Proposed Municipal Drive & Galena Blvd. Extension							
SITE		SUGAR GROVE, ILLINOIS							
DESCRIPTION		SAMPLES		TESTS					
DEPTH, ft.	USCS SYMBOL	NUMBER	TYPE	RECOVERY, in.	SPT-N** BLOWS /ft.	WATER CONTENT, %	DRY UNIT WT,pcf	UNCONFINED STRENGTH, psf	ALTERBERG LIMITS, %
Approx. Surface Elev.: 711.16 ft									
0.7	PA								
3.5	CL-ML 1	SS	8	6	24			2000*	
3.5	PA								
5	CL-ML 2	SS	10	8	16				
5	PA								
5	CL-ML 3	SS	9	6	15				
5	PA								
10	CL-ML 4	SS	12	6	12				
BOTTOM OF BORING									

LOG OF BORING NO. 5									
CLIENT		PROJECT							
Engineering Enterprises Inc		Proposed Municipal Drive & Galena Blvd. Extension							
SITE		SUGAR GROVE, ILLINOIS							
DESCRIPTION		SAMPLES		TESTS					
DEPTH, ft.	USCS SYMBOL	NUMBER	TYPE	RECOVERY, in.	SPT-N** BLOWS /ft.	WATER CONTENT, %	DRY UNIT WT,pcf	UNCONFINED STRENGTH, psf	ALTERBERG LIMITS, %
Approx. Surface Elev.: 705.10 ft									
0.5	PA								
3	CL-CH 1	SS	6	9	26			3000*	
3	PA								
5	CL-SC 2	SS	10	6	19			1500*	
5	PA								
5	CL-CH 3	SS	8	7	27			1500*	
5	PA								
6.5	CL-ML 4	SS	12	7	12			1000*	
10	PA								
BOTTOM OF BORING									

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

## SOIL BORING LOGS

SCALE: 1" = 300'  
DATE: 02/07/08

DRAWN BY: KKP  
CHECKED BY: WBR



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	06-00017-00-PV	KANE	232	171
STA.		TO STA.		
FED. ROAD DIST. NO. -		ILLINOIS FED. AID PROJECT		

PLAN	SURVEYED	DATE
	PLOTTED	
	RECORDED	
	CHECKED	
	BY	
	NO.	

LOG OF BORING NO. 8									
CLIENT		PROJECT							
Engineering Enterprises Inc		Proposed Municipal Drive & Galena Blvd. Extension							
SUGAR GROVE, ILLINOIS		SUGAR GROVE, ILLINOIS							
GRAPHIC LOG	DEPT. FT.	USCS SYMBOL	NUMBER	TYPE	RECOVERY, IN.	SPT-N** BLOWS / FT.	WATER CONTENT, %	DRY UNIT WT PCF	UNCONFINED STRENGTH, PSF
	0.7								
	1.5	CL-SC	1	SS	6	7	26	3000*	
		CL-SC	2	SS	8	8	24	2000*	
		CL-SC	3	SS	7	4	20	2000*	
		SC	4	SS	8	8	19		
Approx. Surface Elev.: 706.69 ft Approx. 8" Topsoil (Possible Fill) POSSIBLE FILL: LEAN TO FAT CLAY TRACE SAND AND GRAVEL, brown Sample 1: occasional topsoil pockets. SANDY LEAN CLAY TRACE GRAVEL, brown, medium stiff CLAYEY FINE TO MEDIUM SAND, WITH GRAVEL, gray and brown, loose, wet BOTTOM OF BORING									
WATER LEVEL OBSERVATIONS, ft					BORING STARTED 4-11-07				
WL 9 WS 8 AB					BORING COMPLETED 4-11-07				
Terracon					RIG 68 FOREMAN CJ				
APPROVED KND JOB # 11075049									

LOG OF BORING NO. 7									
CLIENT		PROJECT							
Engineering Enterprises Inc		Proposed Municipal Drive & Galena Blvd. Extension							
SUGAR GROVE, ILLINOIS		SUGAR GROVE, ILLINOIS							
GRAPHIC LOG	DEPT. FT.	USCS SYMBOL	NUMBER	TYPE	RECOVERY, IN.	SPT-N** BLOWS / FT.	WATER CONTENT, %	DRY UNIT WT PCF	UNCONFINED STRENGTH, PSF
	0.7								
		CL-SC	1	SS	8	9	28	2000*	
		CL-SC	2	SS	9	8	32	1500*	
		CL-SC	3	SS	8	8	16		
		SC	4	SS	9	7	17		
Approx. Surface Elev.: 707.39 ft Approx. 8" Topsoil LEAN TO FAT CLAY TRACE SAND, dark brown, medium stiff LEAN TO FAT CLAY TRACE SAND AND GRAVEL, brown, medium stiff SANDY LEAN CLAY TRACE GRAVEL, brown and gray Sample 3: with decomposed sand and gravel, disturbed sample. CLAYEY FINE TO MEDIUM SAND, WITH GRAVEL, gray, trace brown, loose BOTTOM OF BORING									
WATER LEVEL OBSERVATIONS, ft					BORING STARTED 4-11-07				
WL 9 WS 9 AB					BORING COMPLETED 4-11-07				
Terracon					RIG 68 FOREMAN CJ				
APPROVED KND JOB # 11075049									

LOG OF BORING NO. 8									
CLIENT		PROJECT							
Engineering Enterprises Inc		Proposed Municipal Drive & Galena Blvd. Extension							
SUGAR GROVE, ILLINOIS		SUGAR GROVE, ILLINOIS							
GRAPHIC LOG	DEPT. FT.	USCS SYMBOL	NUMBER	TYPE	RECOVERY, IN.	SPT-N** BLOWS / FT.	WATER CONTENT, %	DRY UNIT WT PCF	UNCONFINED STRENGTH, PSF
	0.8								
		CL	1	SS	8	6	31	2000*	
		CL-CH	2	SS	9	9	29	2500*	
		CL-ML	3	SS	8	8	26	2000*	
		CL-ML	4	SS	9	11	26		
Approx. Surface Elev.: 712.14 ft Approx. 9" Topsoil LEAN CLAY TRACE SAND, brown, medium stiff LEAN TO FAT CLAY TRACE SAND, brown, stiff SILTY CLAY TRACE SAND, brown, medium stiff Sample 4: with sand, trace gravel, wet, disturbed. BOTTOM OF BORING									
WATER LEVEL OBSERVATIONS, ft					BORING STARTED 4-11-07				
WL 9 WS 9 AB					BORING COMPLETED 4-11-07				
Terracon					RIG 68 FOREMAN CJ				
APPROVED KND JOB # 11075049									

PROFILE	SURVEYED	DATE
	PLOTTED	
	RECORDED	
	CHECKED	
	BY	
	NO.	

LOG OF BORING NO. 22									
CLIENT		PROJECT							
Engineering Enterprises Inc		Proposed Municipal Drive & Galena Blvd. Extension							
SUGAR GROVE, ILLINOIS		SUGAR GROVE, ILLINOIS							
GRAPHIC LOG	DEPT. FT.	USCS SYMBOL	NUMBER	TYPE	RECOVERY, IN.	SPT-N** BLOWS / FT.	WATER CONTENT, %	DRY UNIT WT PCF	UNCONFINED STRENGTH, PSF
	1.3								
	4.8								
		CL-SC	1	SS	9	8	6		
		CL-SC	2	SS	8	7	20		
		CL-CH	3	SS	8	6	31	2000*	
		CL-ML	4	SS	12	5	15	1000*	
Approx. Surface Elev.: 706.48 ft Approx. 16" Asphalt Approx. 3" Gravel FILL: SILTY FINE TO COARSE SAND, WITH GRAVEL, dark gray/dark brown FILL: LEAN CLAY AND LEAN TO FAT CLAY TRACE SAND, brown and dark brown BURIED TOPSOIL: LEAN TO FAT CLAY WITH ORGANICS, TRACE SAND, dark brown/black LEAN TO FAT CLAY TRACE SAND, dark gray, medium stiff SANDY SILTY CLAY, WITH GRAVEL, brown, soft BOTTOM OF BORING									
WATER LEVEL OBSERVATIONS, ft					BORING STARTED 4-11-07				
WL 9 WS 9 AB					BORING COMPLETED 4-11-07				
Terracon					RIG 68 FOREMAN CJ				
APPROVED KND JOB # 11075049									

LOG OF BORING NO. 23									
CLIENT		PROJECT							
Engineering Enterprises Inc		Proposed Municipal Drive & Galena Blvd. Extension							
SUGAR GROVE, ILLINOIS		SUGAR GROVE, ILLINOIS							
GRAPHIC LOG	DEPT. FT.	USCS SYMBOL	NUMBER	TYPE	RECOVERY, IN.	SPT-N** BLOWS / FT.	WATER CONTENT, %	DRY UNIT WT PCF	UNCONFINED STRENGTH, PSF
	1.3								
	1.5								
		CL-SC	1	SS	5	24	11		
		CL-SC	2	SS	8	9	26		
		CL-SC	3	SS	8	7	32		
		CL-ML	4	SS	9	9	13	2500*	
Approx. Surface Elev.: 708.02 ft Approx. 16" Asphalt Approx. 3" Gravel FILL: LEAN CLAY AND LEAN TO FAT CLAY TRACE SAND AND ORGANICS, dark brown and dark grey BURIED TOPSOIL: LEAN TO FAT CLAY WITH ORGANICS, TRACE SAND, dark brown/black SANDY SILTY CLAY TRACE GRAVEL, brown, stiff, wet BOTTOM OF BORING									
WATER LEVEL OBSERVATIONS, ft					BORING STARTED 4-11-07				
WL 8 WS 8 AB					BORING COMPLETED 4-11-07				
Terracon					RIG 68 FOREMAN CJ				
APPROVED KND JOB # 11075049									

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

# SOIL BORING LOGS

SCALE: 1" = 300'  
DATE: 02/07/08

DRAWN BY: KKP  
CHECKED BY: WBR



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	06-00017-00-PV	KANE	232	172
STA.		TO STA.		
FED. ROAD DIST. NO. _		ILLINOIS FED. AID PROJECT		

PLAN	SURVEYED	DATE
	PLOTTED	
	NOTED	
	BY	
	NO. OF WAY CHECKED	
	CADD FILE NAME	

LOG OF BORING NO. 24		Page 1 of 1	
CLIENT	Engineering Enterprises Inc	PROJECT	Proposed Municipal Drive & Galena Blvd. Extension
SITE	Sugar Grove, Illinois		
DESCRIPTION	DEPTH, ft	USCS SYMBOL	TESTS
Approx. Surface Elev.: 703.61 ft			
0.7	703	CL/CH 1 SS 5 8 29	2500*
LEAN TO FAT CLAY, TRACE SAND, gray, trace brown; trace dark brown mottling, stiff			
4	700	CL 2 SS 5 10 24	500*
SILTY CLAY, WITH SAND AND GRAVEL, brownish gray and white, soft			
5.5	698.5	CL 3 SS 6 11 27	2000*
LEAN CLAY, TRACE SAND AND GRAVEL, gray, medium stiff			
8	698	SC 4 SS 10 5 19	
CLAYEY FINE TO MEDIUM SAND, WITH GRAVEL, gray, loose, wet			
10	694		
BOTTOM OF BORING			
*Calibrated Hand Penetrometer **140 Lbs Automatic SPT Hammer			
WATER LEVEL OBSERVATIONS, ft		BORING STARTED 4-11-07	
WL 9	WS 8 AB	BORING COMPLETED 4-11-07	
WL 8	WS 8 CJ	RIG 68 FOREMAN CJ	
WL		APPROVED KND JOB # 11075049	

LOG OF BORING NO. 25		Page 1 of 1	
CLIENT	Engineering Enterprises Inc	PROJECT	Proposed Municipal Drive & Galena Blvd. Extension
SITE	Sugar Grove, Illinois		
DESCRIPTION	DEPTH, ft	USCS SYMBOL	TESTS
Approx. Surface Elev.: 706.21 ft			
1.2	705	CL/CH 1 SS 8 8 32	2600*
LEAN TO FAT CLAY, TRACE SAND, gray, trace brown, stiff			
3	703	CL 2 SS 9 7 17	3000*
LEAN CLAY, TRACE SAND AND GRAVEL, brown and gray, stiff			
5	701	CL 3 SS 9 5 22	4000*
Sample 3: with sand			
7	699	CL/SC 4 SS 8 8 18	3000*
SANDY LEAN CLAY, WITH SAND AND SILT SEAMS, gray, stiff			
10	696		
BOTTOM OF BORING			
*Calibrated Hand Penetrometer **140 Lbs Automatic SPT Hammer			
WATER LEVEL OBSERVATIONS, ft		BORING STARTED 4-11-07	
WL 4	WS 6 AB	BORING COMPLETED 4-11-07	
WL 5	WS 6 CJ	RIG 68 FOREMAN CJ	
WL		APPROVED KND JOB # 11075049	

LOG OF BORING NO. 26		Page 1 of 1	
CLIENT	Engineering Enterprises Inc	PROJECT	Proposed Municipal Drive & Galena Blvd. Extension
SITE	Sugar Grove, Illinois		
DESCRIPTION	DEPTH, ft	USCS SYMBOL	TESTS
Approx. Surface Elev.: 707.17 ft			
0.6	706.5	CL/CH 1 SS 7 8 29	3500*
LEAN TO FAT CLAY, TRACE SAND, gray, trace brown, stiff			
3	704	CL 2 SS 8 6 28	2000*
LEAN CLAY, TRACE SAND, gray, trace brown, medium stiff			
5	701	CL 3 SS 6 7 24	500*
SANDY LEAN CLAY, TRACE GRAVEL, brown and gray, soft to stiff			
9	701	CL/SC 4 SS 6 8 15	3000*
turning gray			
10	697		
BOTTOM OF BORING			
*Calibrated Hand Penetrometer **140 Lbs Automatic SPT Hammer			
WATER LEVEL OBSERVATIONS, ft		BORING STARTED 4-11-07	
WL 6	WS 6 AB	BORING COMPLETED 4-11-07	
WL 7	WS 6 CJ	RIG 68 FOREMAN CJ	
WL		APPROVED KND JOB # 11075049	

PROFILE	SURVEYED	DATE
	PLOTTED	
	NOTED	
	BY	
	NO. OF WAY CHECKED	
	STRUCTURE NOTATIONS CHECKED	

LOG OF BORING NO. 27		Page 1 of 1	
CLIENT	Engineering Enterprises Inc	PROJECT	Proposed Municipal Drive & Galena Blvd. Extension
SITE	Sugar Grove, Illinois		
DESCRIPTION	DEPTH, ft	USCS SYMBOL	TESTS
Approx. Surface Elev.: 709.99 ft			
0.7	709.5	CL 1 SS 9 5 17	2000*
LEAN CLAY, TRACE SAND AND GRAVEL, brown, trace gray, medium stiff to stiff			
3	708.5	CL 2 SS 8 9 19	4000*
LEAN CLAY, TRACE SAND AND GRAVEL, brown and gray, stiff to medium stiff			
5	707	CL 3 SS 10 7 21	2000*
Sample 3: with rust brown stains.			
9	701	SC 4 SS 8 6 20	
CLAYEY FINE TO MEDIUM SAND, grayish brown, loose, wet			
10	700		
BOTTOM OF BORING			
*Calibrated Hand Penetrometer **140 Lbs Automatic SPT Hammer			
WATER LEVEL OBSERVATIONS, ft		BORING STARTED 4-11-07	
WL 9	WS 9 AB	BORING COMPLETED 4-11-07	
WL 8	WS 9 CJ	RIG 68 FOREMAN CJ	
WL		APPROVED KND JOB # 11075049	

LOG OF BORING NO. 28		Page 1 of 1	
CLIENT	Engineering Enterprises Inc	PROJECT	Proposed Municipal Drive & Galena Blvd. Extension
SITE	Sugar Grove, Illinois		
DESCRIPTION	DEPTH, ft	USCS SYMBOL	TESTS
Approx. Surface Elev.: 709.65 ft			
0.5	709	CL/CH 1 SS 10 7 25	3000*
LEAN TO FAT CLAY, TRACE SAND AND GRAVEL, brown gray, trace dark brown mottling, stiff			
3	708.5	CL 2 SS 8 5 22	4000*
LEAN CLAY, TRACE SAND AND GRAVEL, brown and gray, stiff to medium stiff			
5	707	CL 3 SS 8 8 17	3000*
grayish brown			
10	699.5	CL 4 SS 9 6 15	2000*
BOTTOM OF BORING			
*Calibrated Hand Penetrometer **140 Lbs Automatic SPT Hammer			
WATER LEVEL OBSERVATIONS, ft		BORING STARTED 4-11-07	
WL 9	WS 9 AB	BORING COMPLETED 4-11-07	
WL 8	WS 9 CJ	RIG 68 FOREMAN CJ	
WL		APPROVED KND JOB # 11075049	

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		SOIL BORING LOGS
		SCALE: 1" = 300'
		DRAWN BY: KKP
		CHECKED BY: WBR
		DATE: 02/07/08



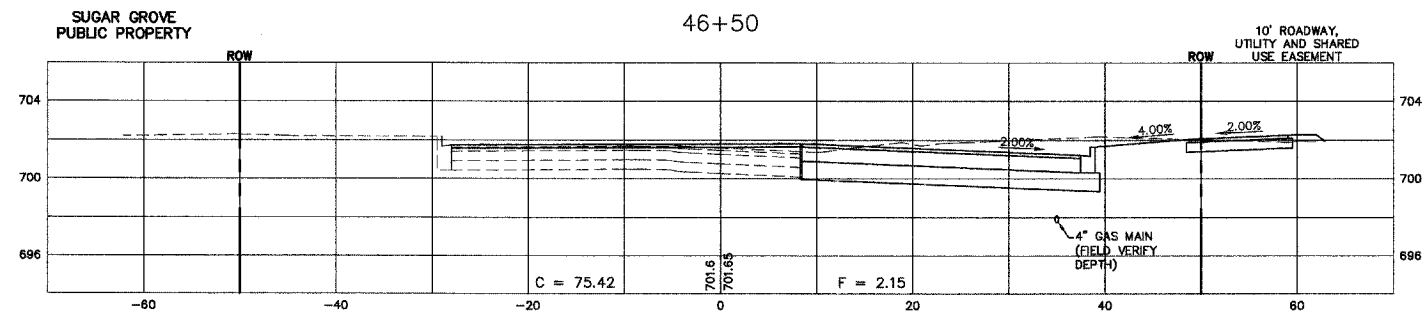




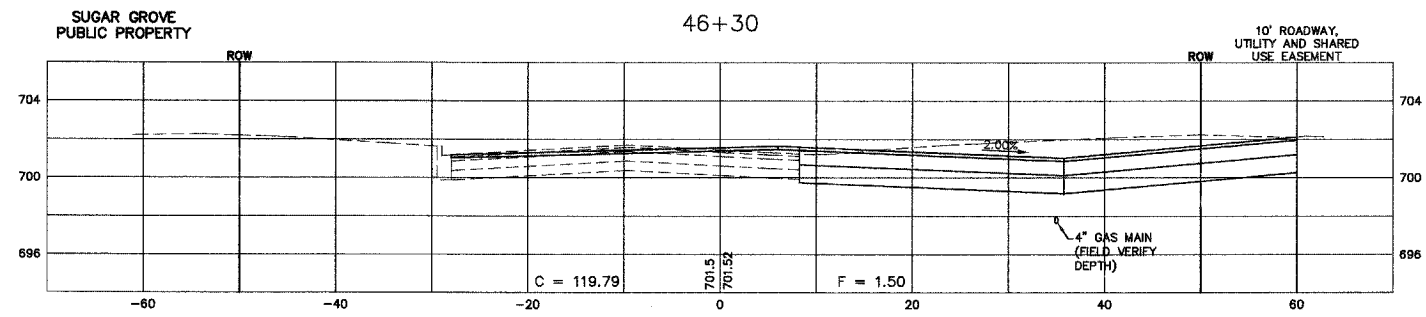
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N/AQ6-00017-00-PV		KANE	232	174
STA.	TO STA.			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

PLAN	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	
	BY	
	DATE	
	BY	
	DATE	

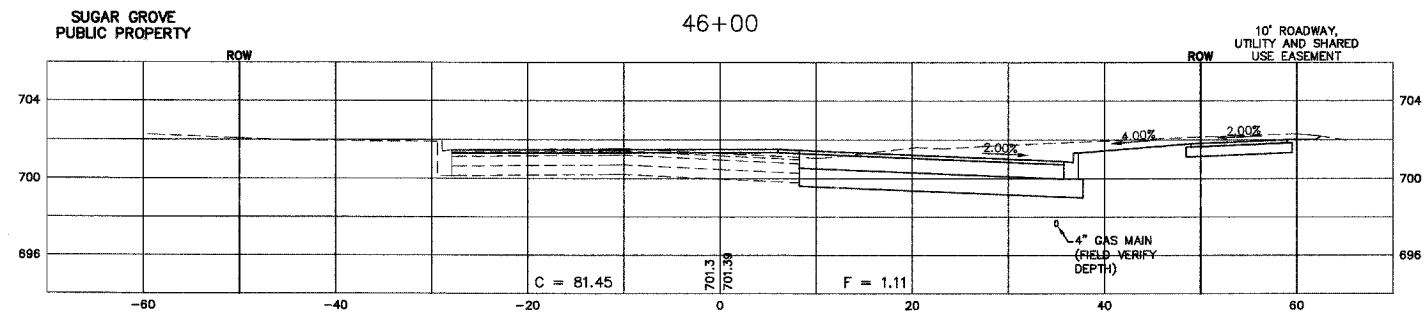
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NOTE BOOK NO.	PLOTTED	
	BY	
	DATE	
	BY	
	DATE	



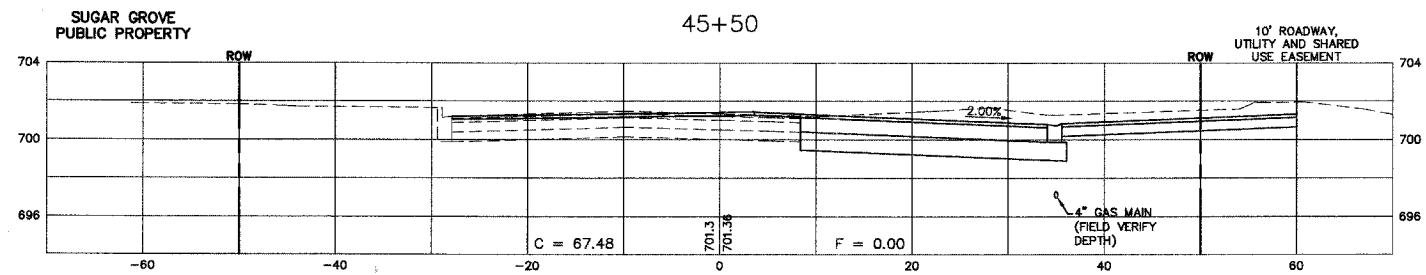
SUGAR GROVE WELL HOUSE AND TREATMENT FACILITY NO. 9



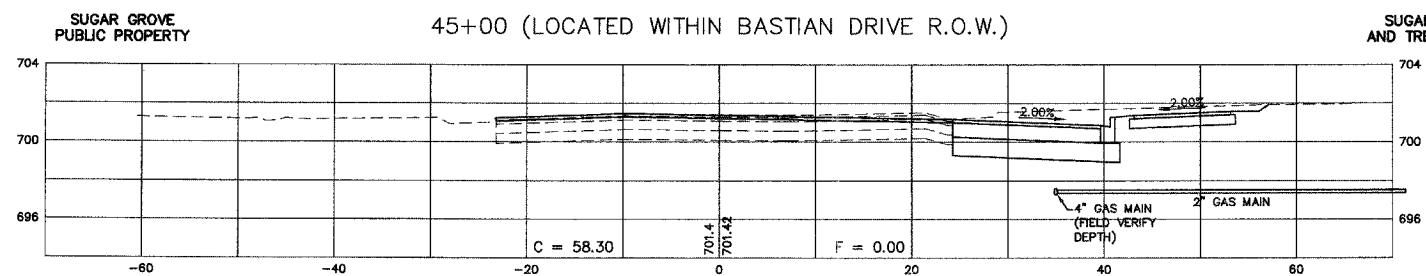
SUGAR GROVE WELL HOUSE AND TREATMENT FACILITY NO. 9



SUGAR GROVE WELL HOUSE AND TREATMENT FACILITY NO. 9



SUGAR GROVE WELL HOUSE AND TREATMENT FACILITY NO. 9



SUGAR GROVE WELL HOUSE AND TREATMENT FACILITY NO. 9

SCALE:  
 HORZ. 1" = 10'  
 VERT. 1" = 5'

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

## MUNICIPAL DRIVE CROSS SECTIONS

SCALE: \_\_\_\_\_ DATE: 02/07/08

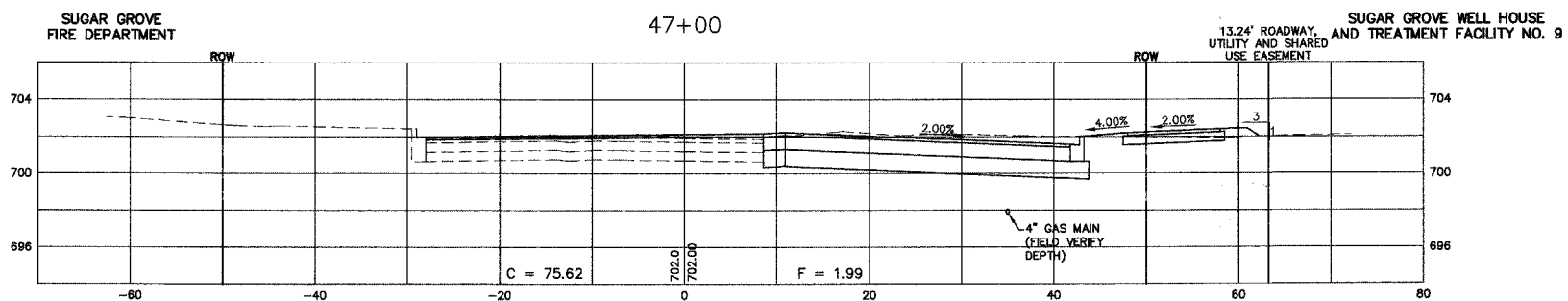
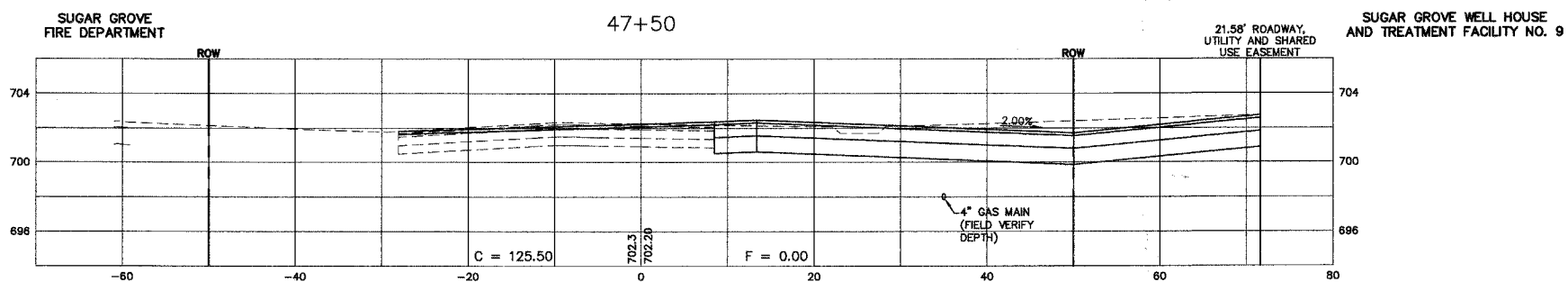
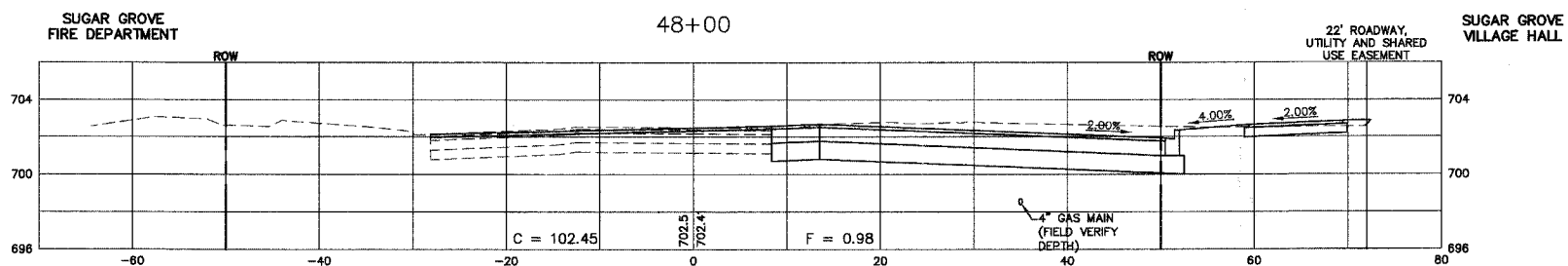
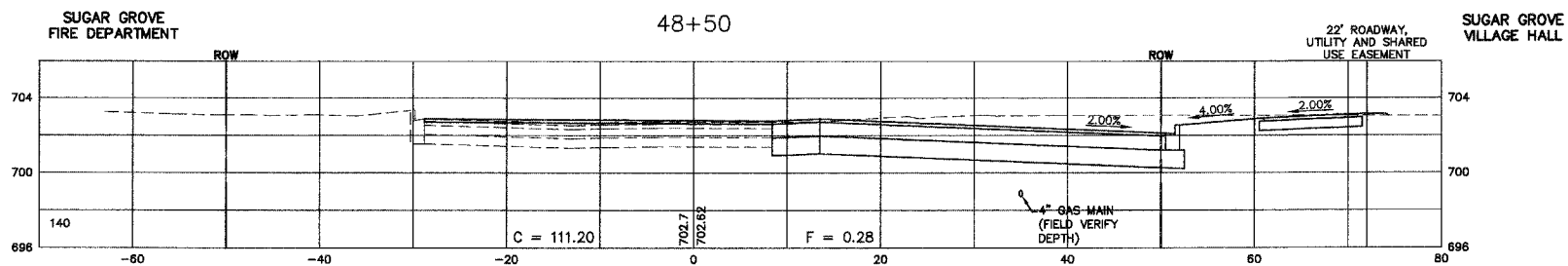
DRAWN BY: KKP  
 CHECKED BY: WBR



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A06-00017-00-P1		KANE	232	175
STA.	TO STA.			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

PLAN	DATE
SURVEYED	
PLOTTED	
NOTED	
RT. OF WAY CHECKED	
NO.	

PROFILE	DATE
SURVEYED	
PLOTTED	
NOTED	
STRUCTURE NOTATIONS CHECKED	
NO.	



SCALE:  
 HORZ. 1" = 10'  
 VERT. 1" = 5'

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
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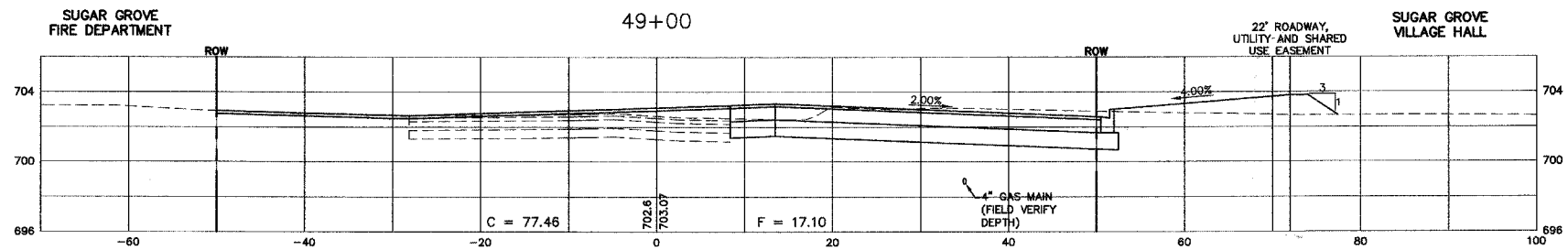
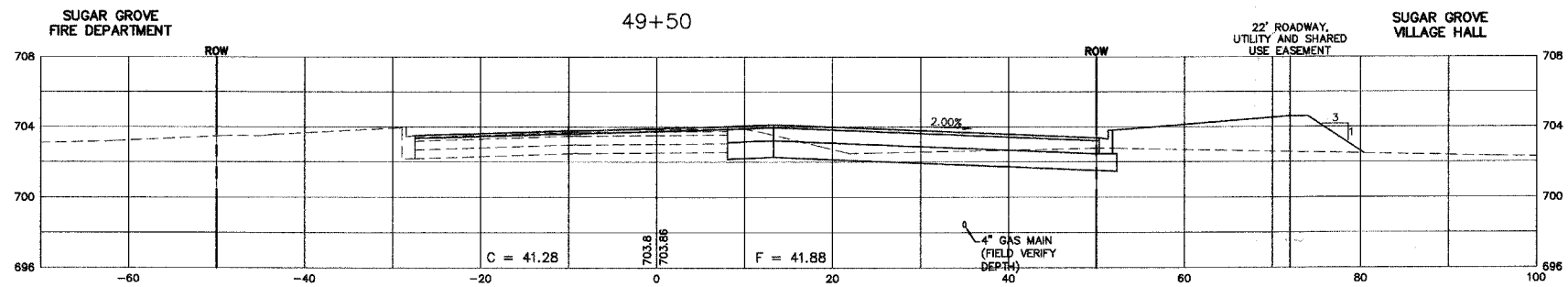
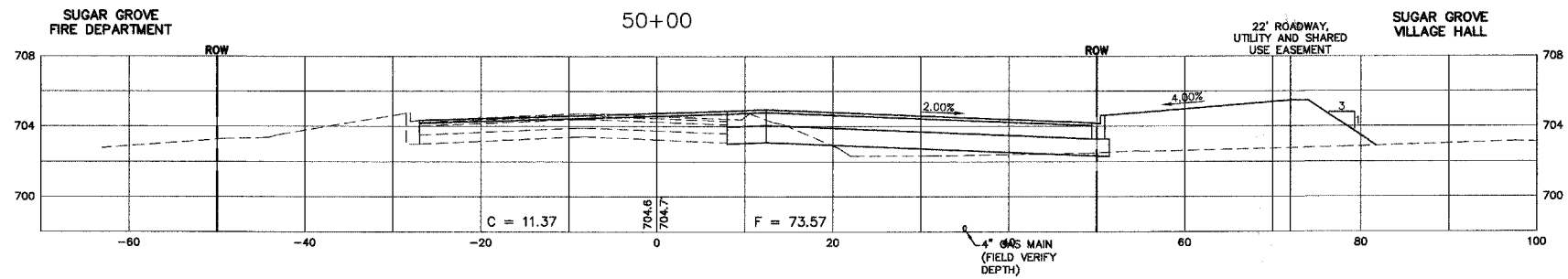
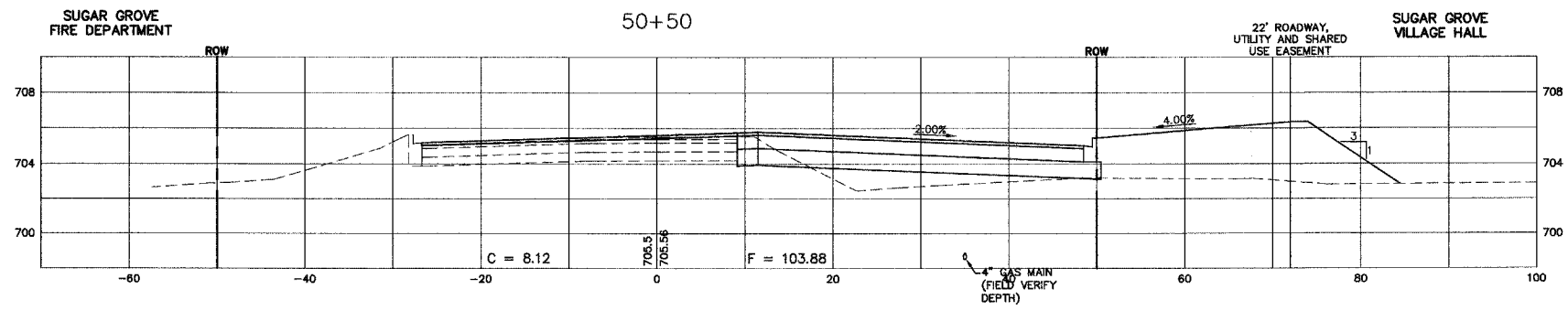


F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A06-00017-00-PV		KANE	232	176
STA.	TO STA.			
FED. ROAD DIST. NO. - ILLINOIS	FED. AID PROJECT			

PLAN	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	
	BY	
	RT. OF WAY CHECKED	
	CAD FILE NAME	

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

Plotted: May 27, 2008 @ 4:25 PM By: Terri Seidler-Johnson - Tab: 176 SECTION (22x34)



SCALE:  
 HORZ. 1" = 10'  
 VERT. 1" = 5'

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

## MUNICIPAL DRIVE CROSS SECTIONS

SCALE: DATE: 02/07/08

DRAWN BY: KKP  
 CHECKED BY: WBR

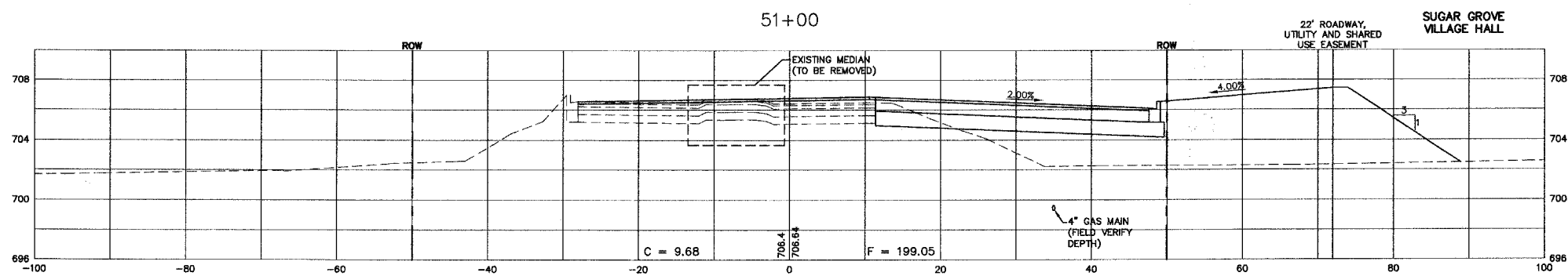
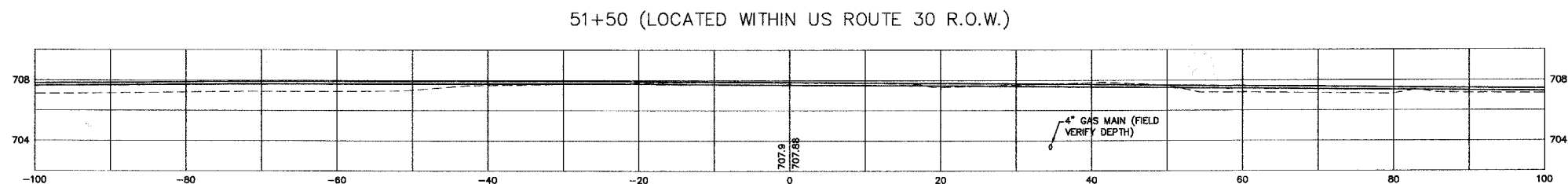
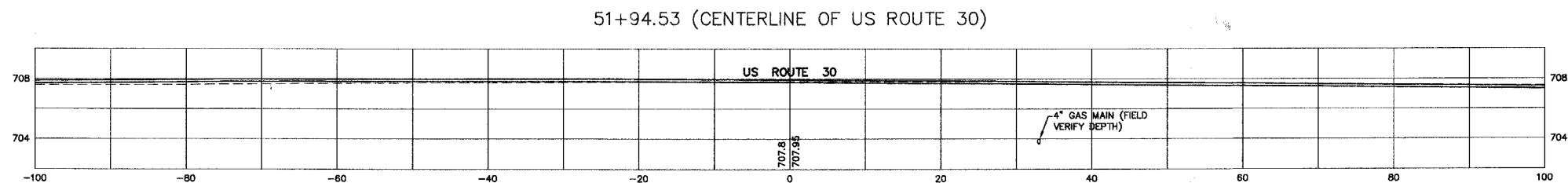
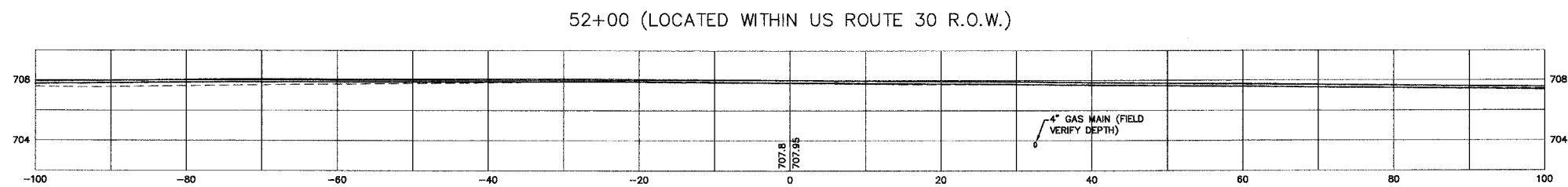
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A06-00017-00-PV		KANE	232	177
STA.	TO STA.			
FED. ROAD DIST. NO. - ILLINOIS	FED. AID PROJECT			

PLAN	SURVEYED	DATE
NOTE BOOK NO.	BY	
	PLOTTED	
	REVIEWED	
	RT. OF WAY CHECKED	
	CADD FILE NAME	

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



SCALE:  
 HORZ. 1" = 10'  
 VERT. 1" = 5'

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

## MUNICIPAL DRIVE CROSS SECTIONS

SCALE: DATE: 02/07/08

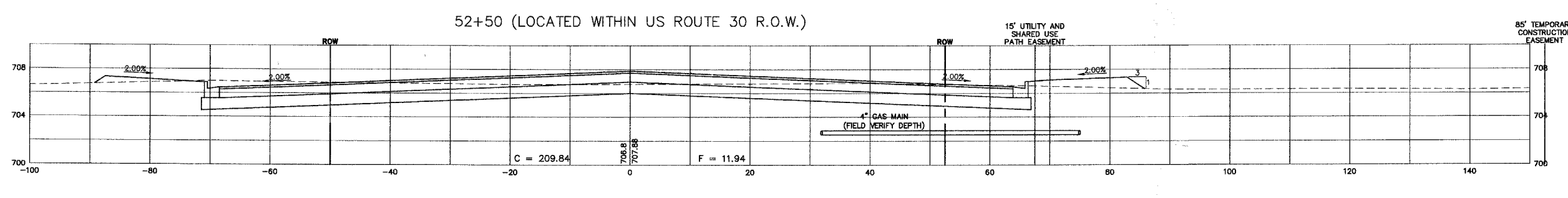
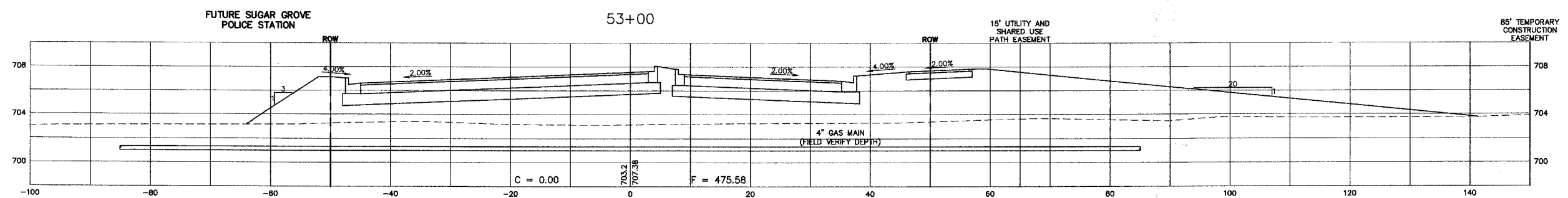
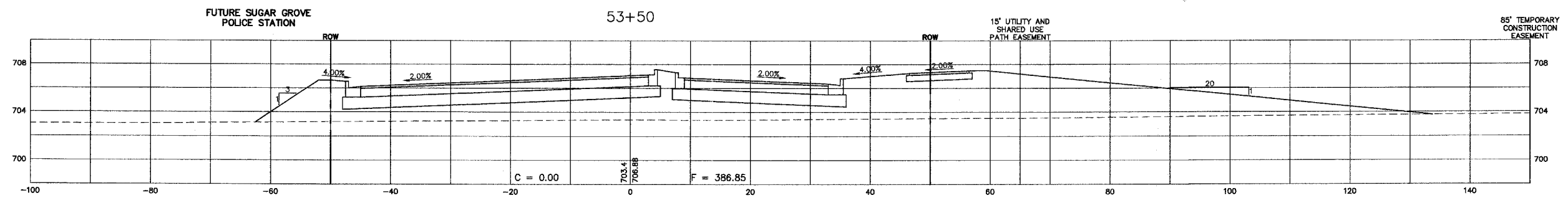
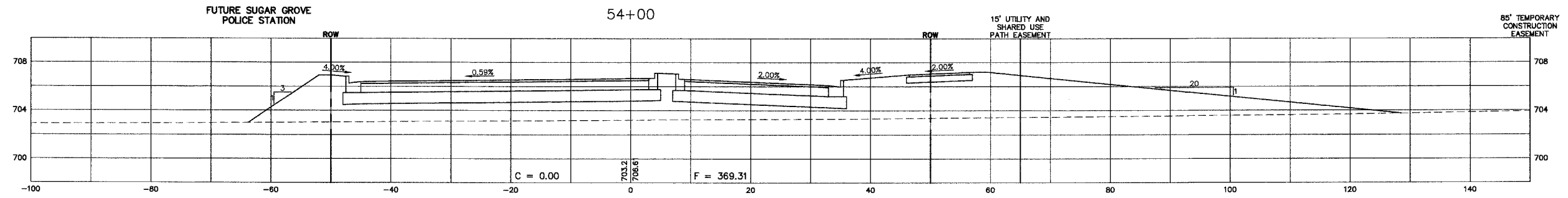
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A06-00017-00-PV		KANE	232	178
STA.	TO STA.			
FED. ROAD DIST. NO. _	ILLINOIS		FED. AID PROJECT	

PLAN	SURVEYED	DATE
NO.	PLOTTED	
	NOTED	
	BY	
	DATE	

PROFILE	SURVEYED	DATE
NO.	PLOTTED	
	NOTED	
	BY	
	DATE	



SCALE:  
 HORZ. 1" = 10'  
 VERT. 1" = 5'

THE PROPOSED ELEVATIONS SHOWN AT THE CENTERLINE EQUALS THE PGL AT 9' LT./RT.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

## MUNICIPAL DRIVE CROSS SECTIONS

SCALE: DATE: 02/07/08

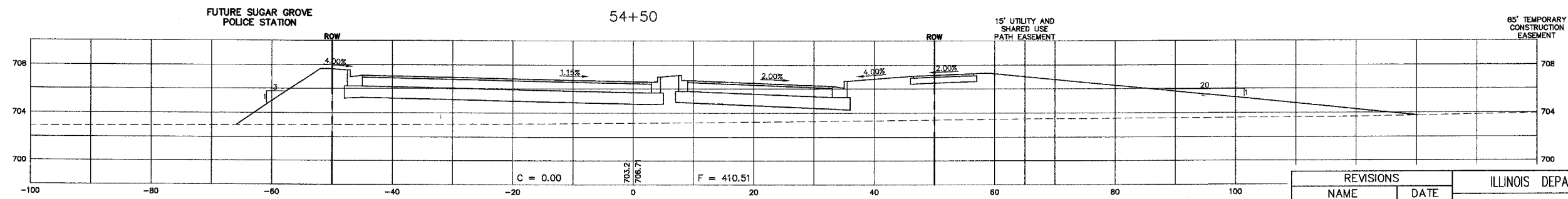
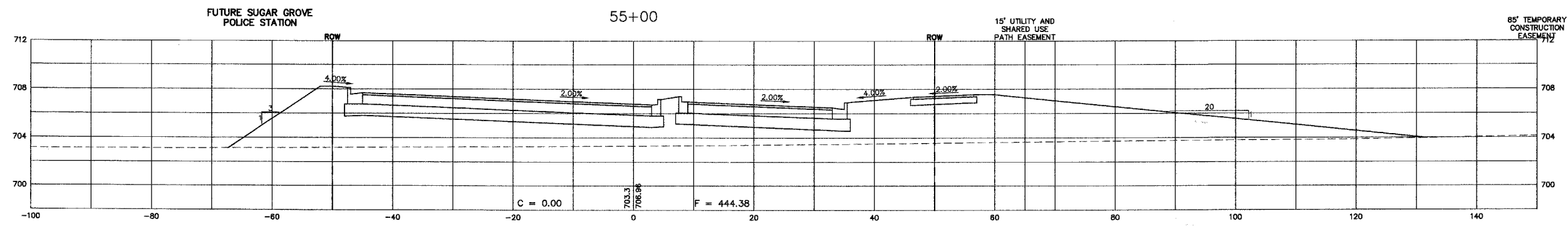
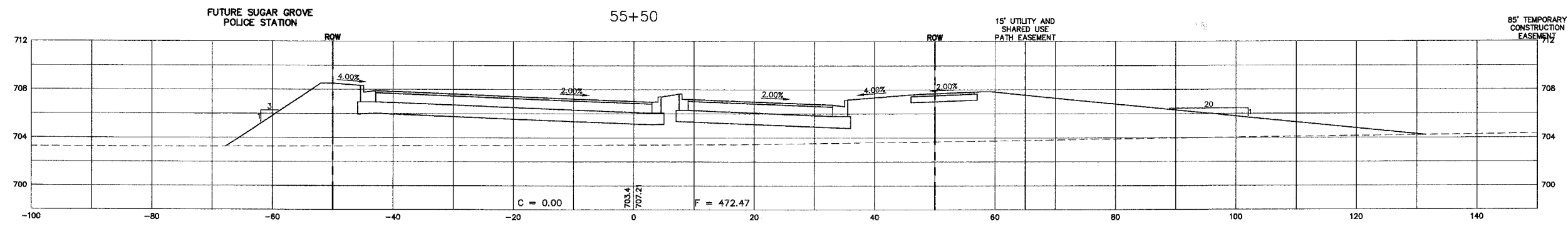
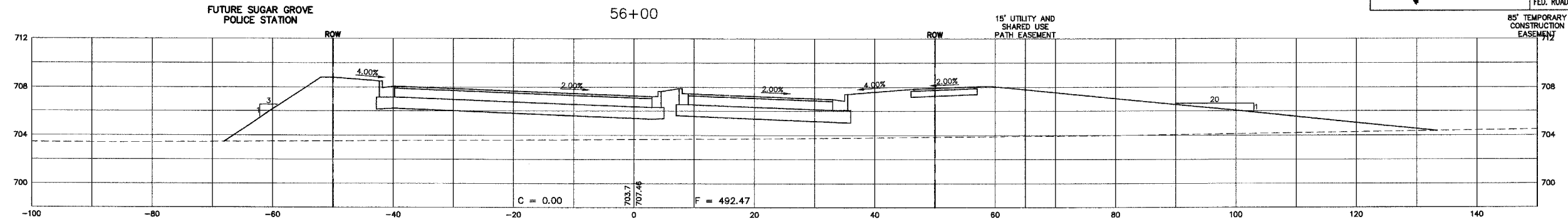
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A06-00017-00-PV		KANE	232	179
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLAN	SURVEYED	DATE
	PLOTTED	
	REVISIONS	
	NOTE BOOK	
	NO. _____	
	CADD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	
	REVISIONS	
	NOTE BOOK	
	NO. _____	
	STRUCTURE NOTATION CHYD	



SCALE:  
 HORZ. 1" = 10'  
 VERT. 1" = 5'

THE PROPOSED ELEVATIONS SHOWN AT THE CENTERLINE EQUALS THE PGL AT 9' LT./RT.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

### MUNICIPAL DRIVE CROSS SECTIONS

SCALE:  
 DATE: 02/07/08

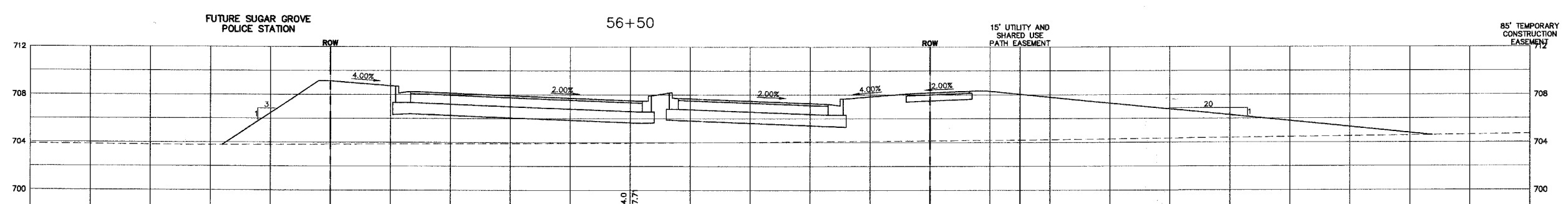
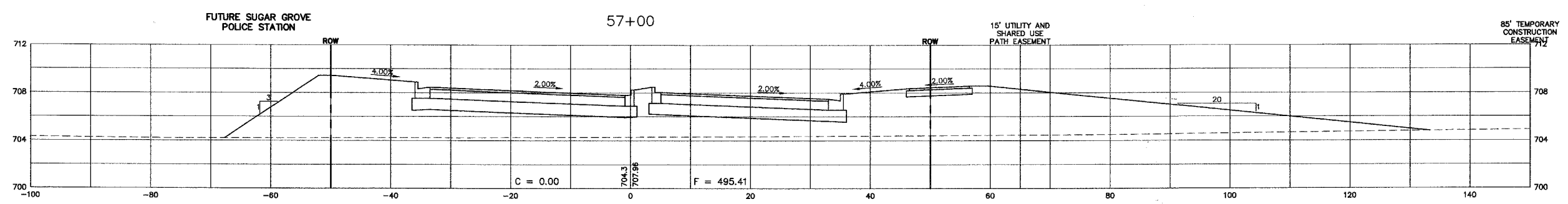
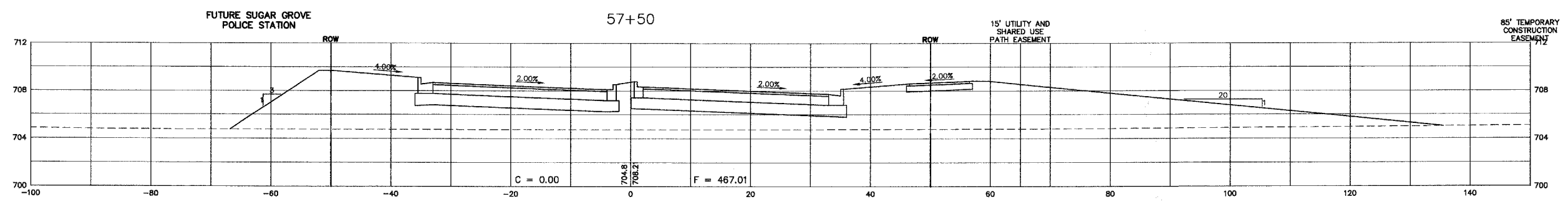
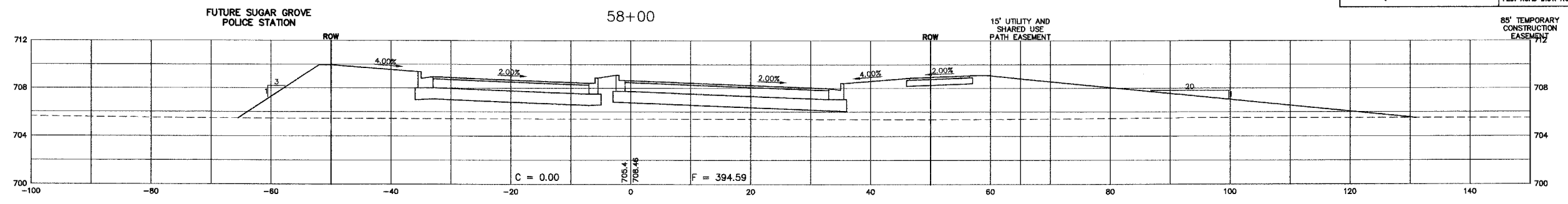
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A06-00017-00-PV		KANE	232	180
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLAN	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	
	REVISIONS	
	FILED	
	BY	
	DATE	

PROFILE	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	
	REVISIONS	
	FILED	
	BY	
	DATE	



SCALE:  
 HORZ. 1" = 10'  
 VERT. 1" = 5'

THE PROPOSED ELEVATIONS SHOWN AT THE CENTERLINE EQUALS THE PGL AT 9' LT./RT.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

MUNICIPAL DRIVE CROSS SECTIONS

SCALE: DATE: 02/07/08  
 DRAWN BY: KKP  
 CHECKED BY: WBR

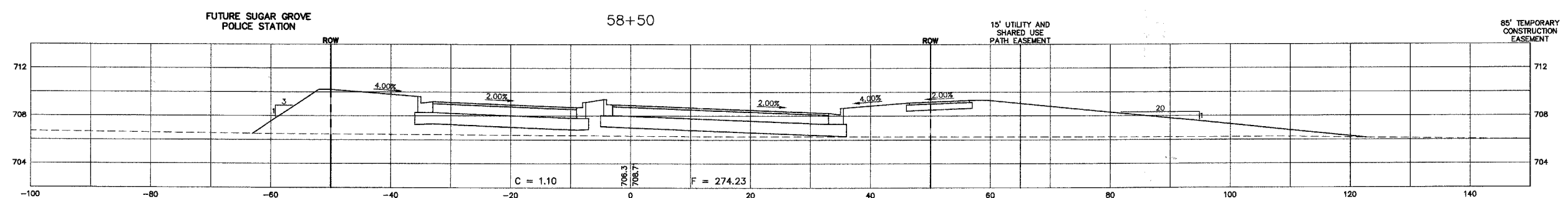
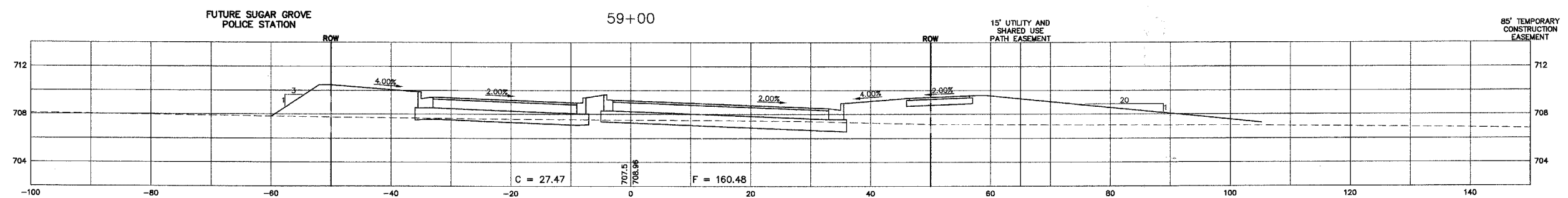
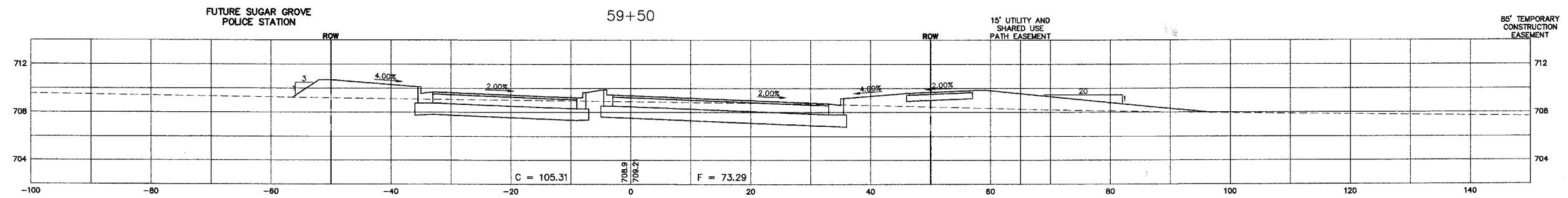
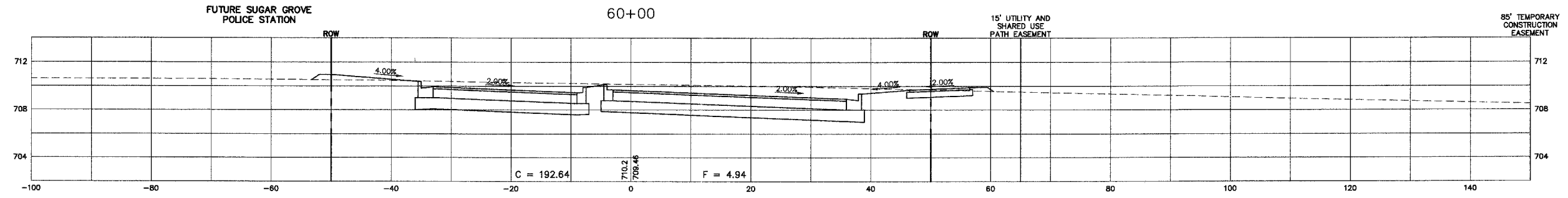




F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A06-00017-00-PV		KANE	232	181
STA.	TO STA.			
FED. ROAD DIST. NO. ILLINOIS	FED. AID PROJECT			

PLAN	SURVEYED	DATE
	PLOTTED	
	RT. OF WAY CHECKED	
	CADD FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	BY	
	STRUCTURE NOTATIONS CHECKED	
	NO.	



SCALE:  
 HORZ. 1" = 10'  
 VERT. 1" = 5'

THE PROPOSED ELEVATIONS SHOWN AT THE CENTERLINE EQUALS THE PGL AT 9' LT./RT.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

## MUNICIPAL DRIVE CROSS SECTIONS

SCALE: DATE: 02/07/08

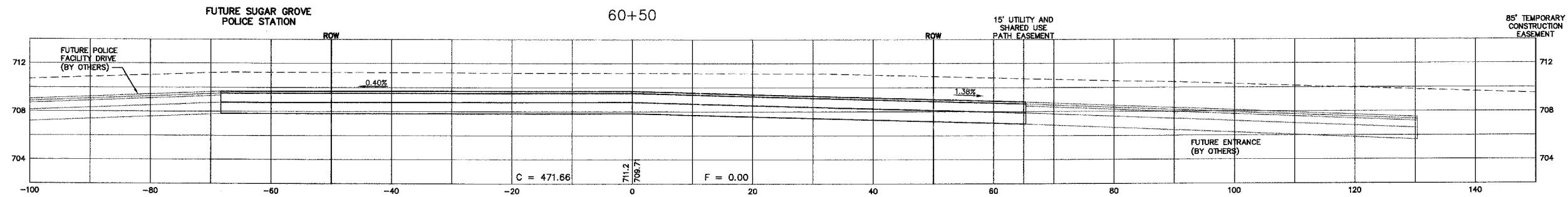
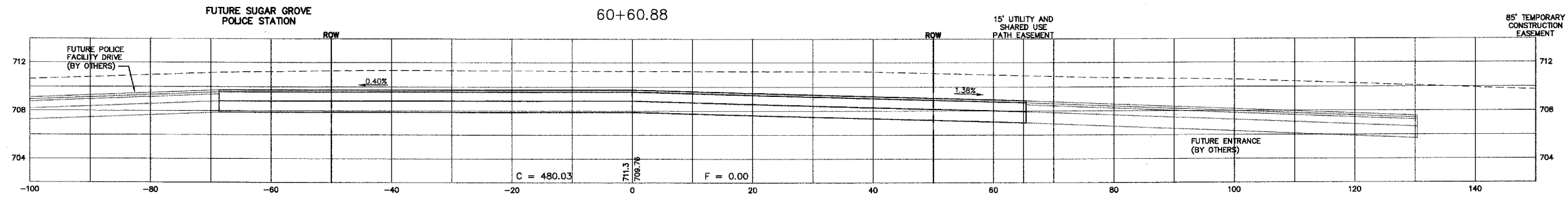
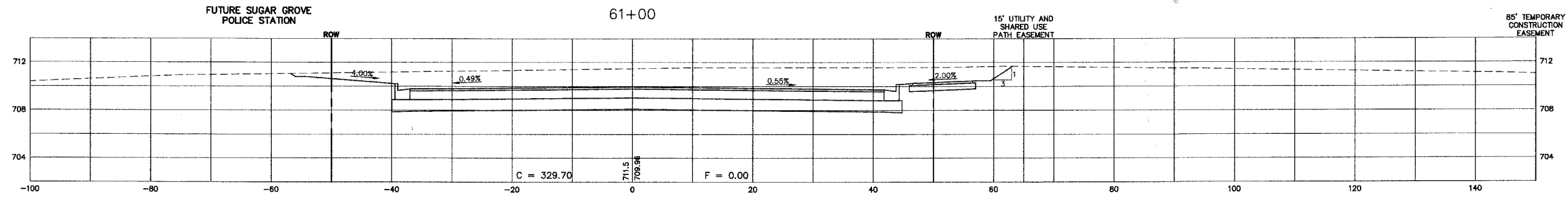
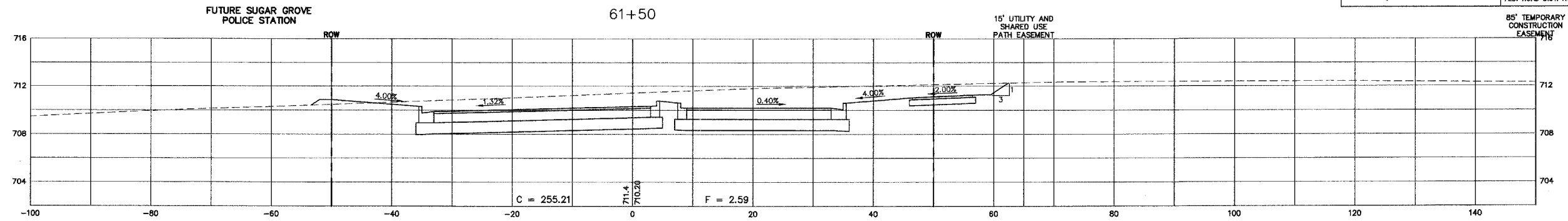
DRAWN BY: KKP  
 CHECKED BY: WBR



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A06-00017-00-PY		KANE	232	182
STA.		TO STA.		
FED. ROAD DIST. NO. _		ILLINOIS	FED. AID PROJECT	

PLAN	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	
	REVISIONS	
	BY	
	DATE	

PROFILE	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	
	REVISIONS	
	BY	
	DATE	



SCALE:  
 HORZ. 1" = 10'  
 VERT. 1" = 5'

THE PROPOSED ELEVATIONS SHOWN AT THE CENTERLINE EQUALS THE PGL AT 9' LT./RT.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

## MUNICIPAL DRIVE CROSS SECTIONS

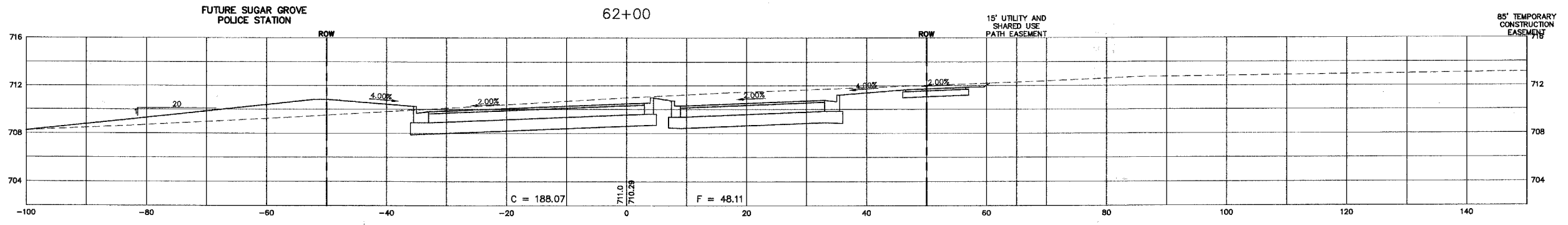
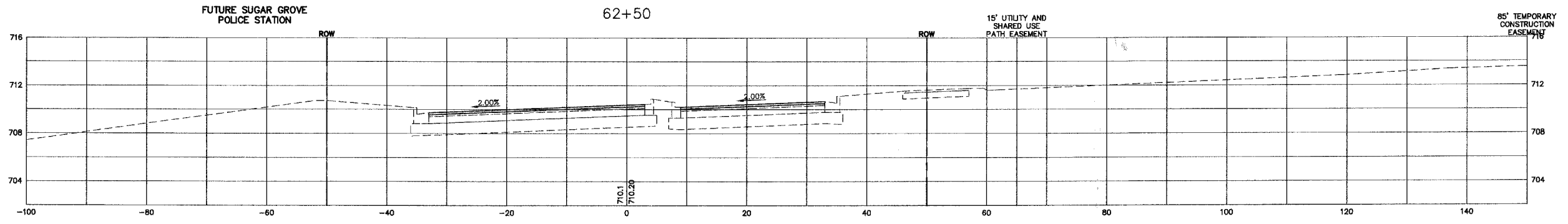
SCALE: DATE: 02/07/08

DRAWN BY: KKP  
 CHECKED BY: WBR



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A06-00017-00-PV		KANE	232	183
STA.	TO STA.			
FED. ROAD DIST. NO. - ILLINOIS	FED. AID PROJECT			

PLAN	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	
	CHECKED	
	BY	
	DATE	



PROFILE	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	
	CHECKED	
	BY	
	DATE	

SCALE:  
 HORZ. 1" = 10'  
 VERT. 1" = 5'

THE PROPOSED ELEVATIONS SHOWN AT THE CENTERLINE EQUALS THE PGL AT 9' LT./RT.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**MUNICIPAL DRIVE CROSS SECTIONS**

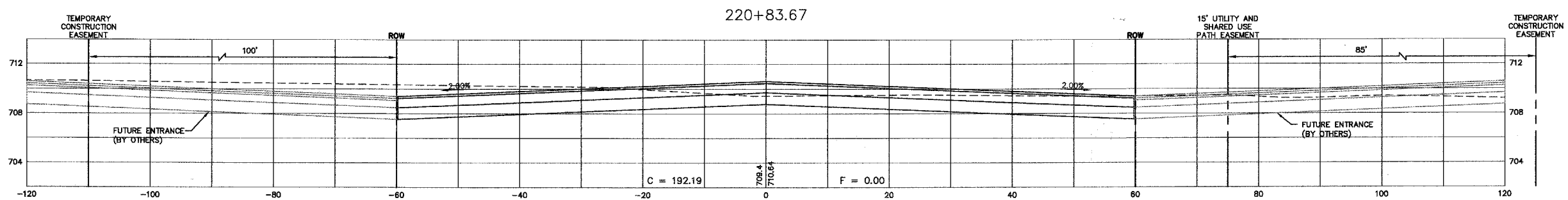
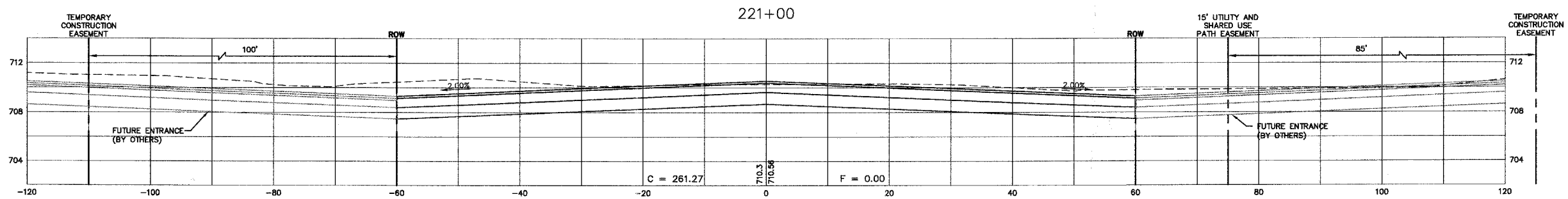
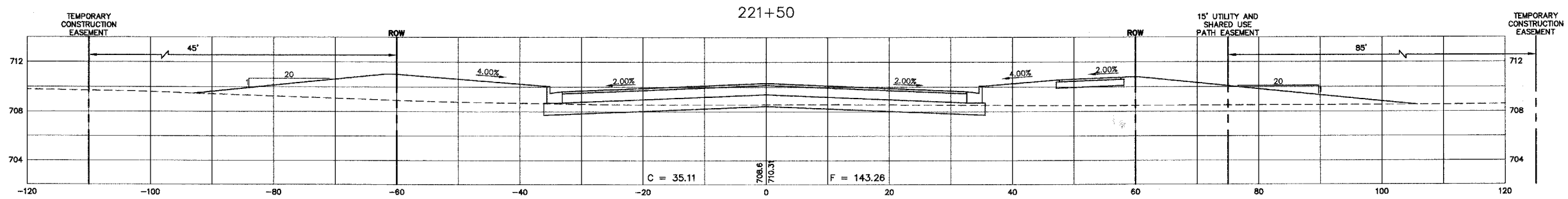
SCALE: DATE: 02/07/08  
 DRAWN BY: KKP  
 CHECKED BY: WBR





F.A. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	06-00017-00-PV	KANE	232	185
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

PLAN	SURVEYED	DATE
NOTE BOOK	PLOTTED	
NO.	CHECKED	
	BY	
	DATE	



PROFILE	SURVEYED	DATE
NOTE BOOK	PLOTTED	
NO.	CHECKED	
	BY	
	DATE	

SCALE:  
 HORZ. 1" = 10'  
 VERT. 1" = 5'

THE PROPOSED ELEVATIONS SHOWN AT THE CENTERLINE EQUALS THE PGL AT 9' LT./RT.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

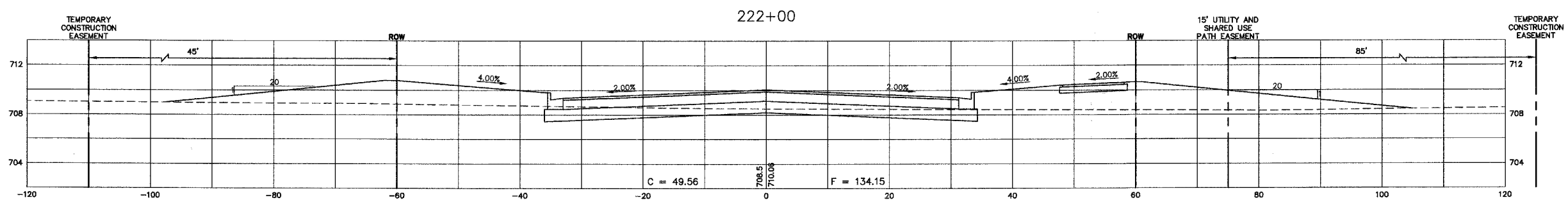
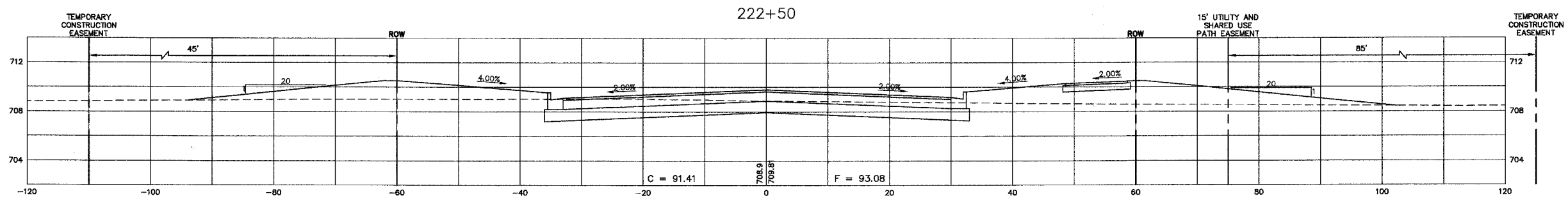
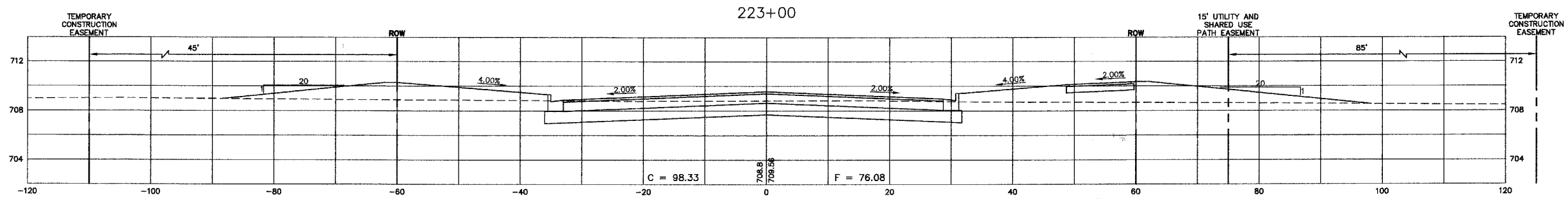
### GALENA BOULEVARD CROSS SECTIONS

SCALE: DATE: 02/07/08  
 DRAWN BY: KKP  
 CHECKED BY: WBR



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	06-00017-00-PV	KANE	232	186
STA.		TO STA.		
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT		

PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO.	



PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO.	

SCALE:  
 HORZ. 1" = 10'  
 VERT. 1" = 5'

THE PROPOSED ELEVATIONS SHOWN AT THE CENTERLINE EQUALS THE PGL AT 9' LT./RT.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

## GALENA BOULEVARD CROSS SECTIONS

SCALE: DATE: 02/07/08

DRAWN BY: KKP  
CHECKED BY: WBR

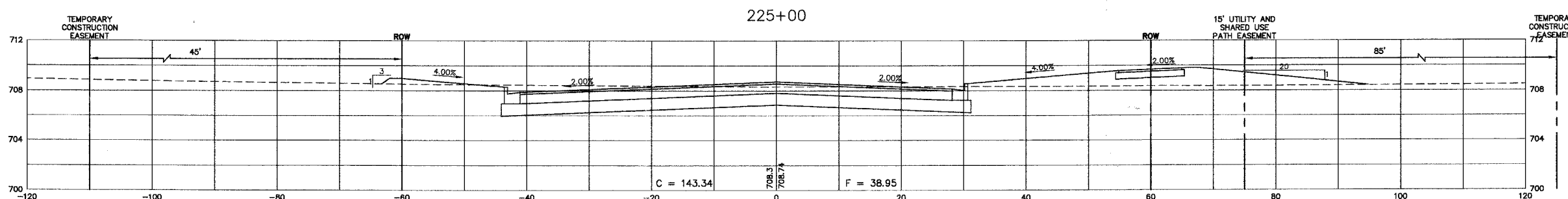
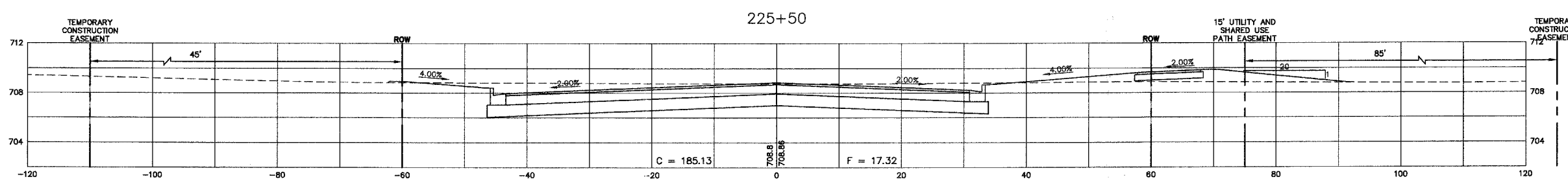
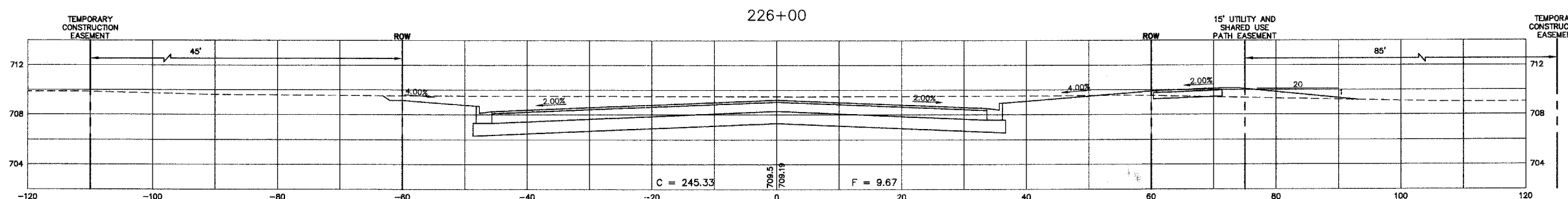




F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	06-00017-00-PV	KANE	232	188
STA.		TO STA.		
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT		

PLAN	DATE
SURVEYED	BY
PLOTTED	
CHECKED	
NO. _____	

PROFILE	DATE
SURVEYED	BY
PLOTTED	
CHECKED	
NO. _____	



SCALE:  
 HORZ. 1" = 10'  
 VERT. 1" = 5'

THE PROPOSED ELEVATIONS SHOWN AT THE CENTERLINE EQUALS THE PGL AT 9' LT./RT.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

## GALENA BOULEVARD CROSS SECTIONS

SCALE: DATE: 02/07/08

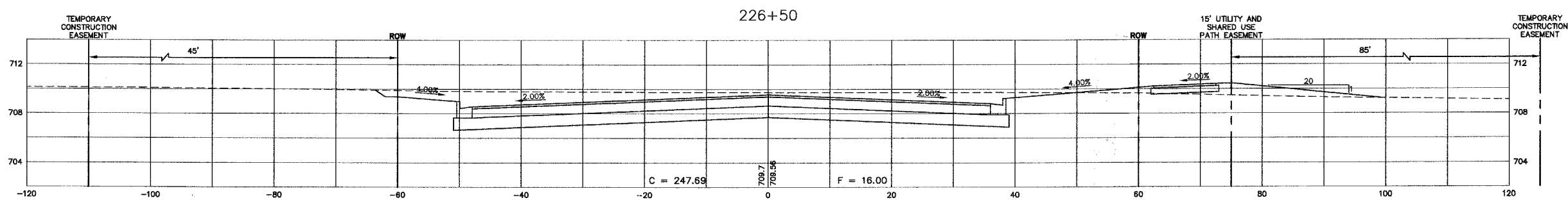
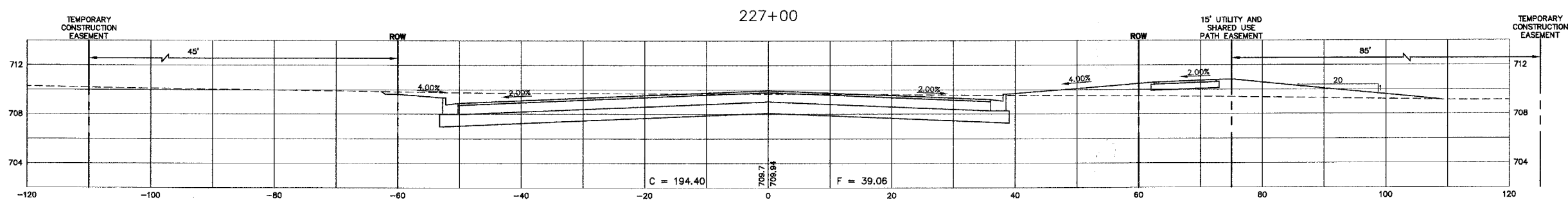
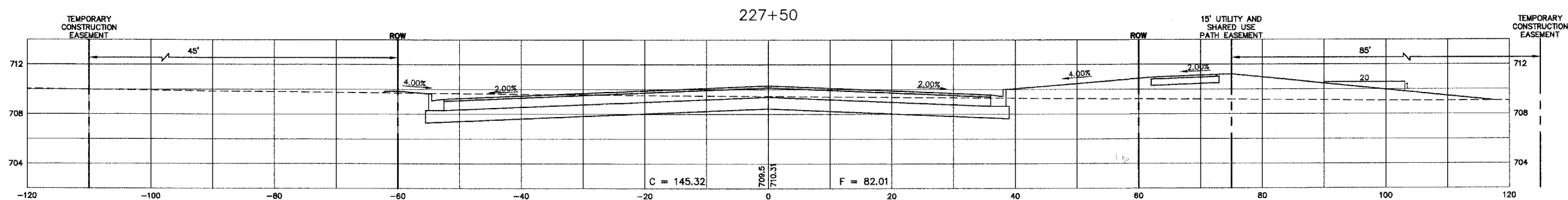
DRAWN BY: KKP  
CHECKED BY: WBR





F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	06-00017-00-PV	KANE	232	189
STA.		TO STA.		
FED. ROAD DIST. NO. _ ILLINOIS		FED. AID PROJECT		

PLAN	SURVEYED	DATE
	PLOTTED	
	REVISIONS	
	NOTE BOOK	
	NO.	
	CADD FILE NAME	



PROFILE	SURVEYED	DATE
	PLOTTED	
	REVISIONS	
	NOTE BOOK	
	NO.	
	STRUCTURE NOTATIONS CHFD	

SCALE:  
 HORZ. 1" = 10'  
 VERT. 1" = 5'

THE PROPOSED ELEVATIONS SHOWN AT THE CENTERLINE EQUALS THE PGL AT 9' LT./RT.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

GALENA BOULEVARD  
 CROSS SECTIONS

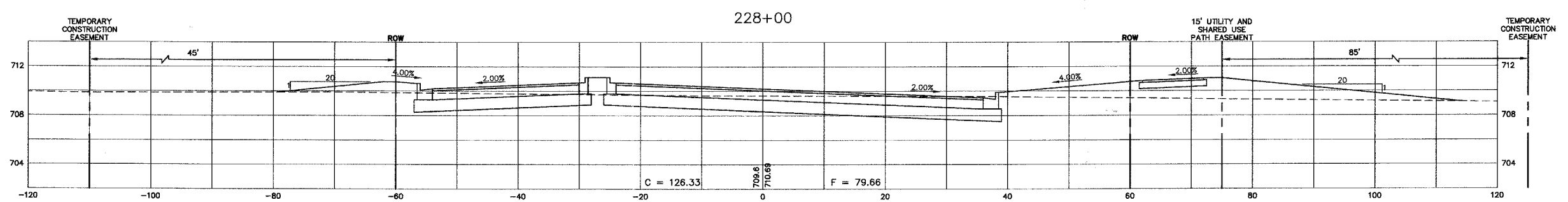
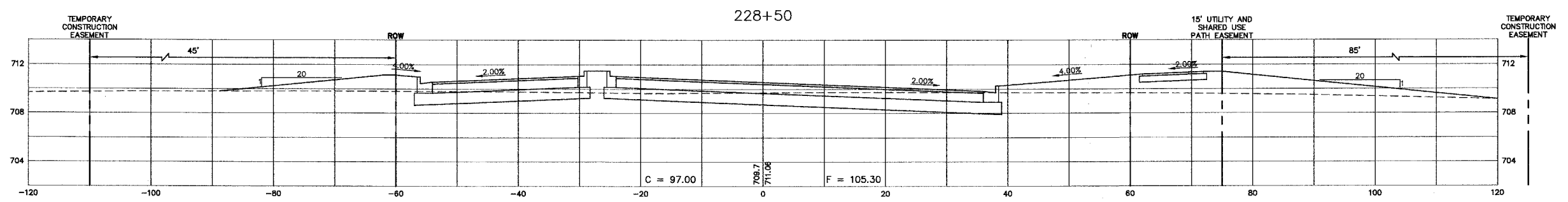
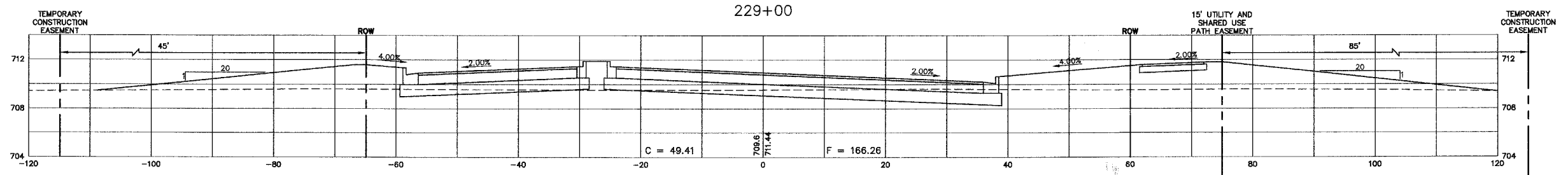
SCALE:  
 DATE: 02/07/08

DRAWN BY: KKP  
 CHECKED BY: WBR



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	06-00017-00-PV	KANE	232	190
STA.		TO STA.		
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT		

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	NO.	
	FILE NAME	



PROFILE	SURVEYED	DATE
	PLOTTED	
	GROUND	
	STRUCTURE	
	NOTATION	
	NO.	

SCALE:  
 HORZ. 1" = 10'  
 VERT. 1" = 5'

THE PROPOSED ELEVATIONS SHOWN AT THE CENTERLINE EQUALS THE PGL AT 9' LT./RT.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION	
NAME	DATE		

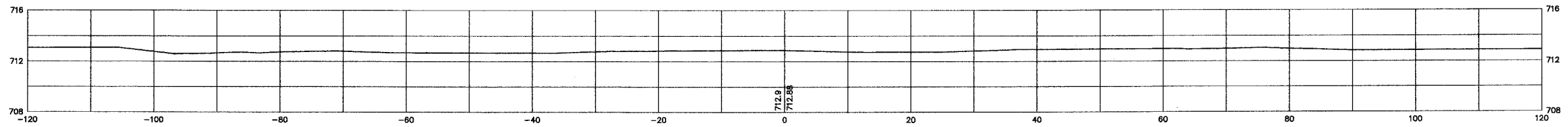
### GALENA BOULEVARD CROSS SECTIONS

SCALE:  
 DATE: 02/07/08  
 DRAWN BY: KKP  
 CHECKED BY: WBR

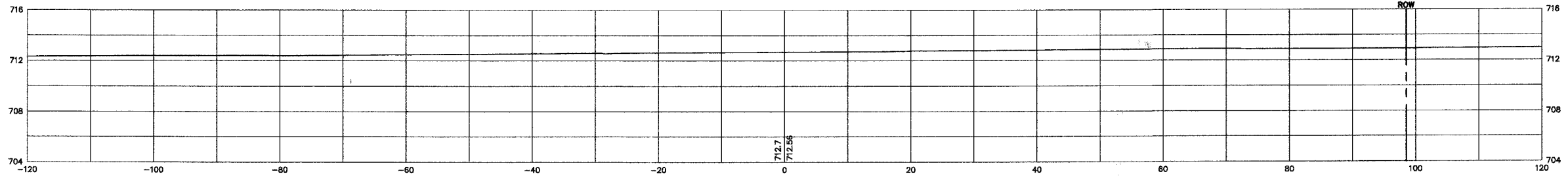


F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	06-00017-00-PV	KANE	232	191
STA.		TO STA.		
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT		

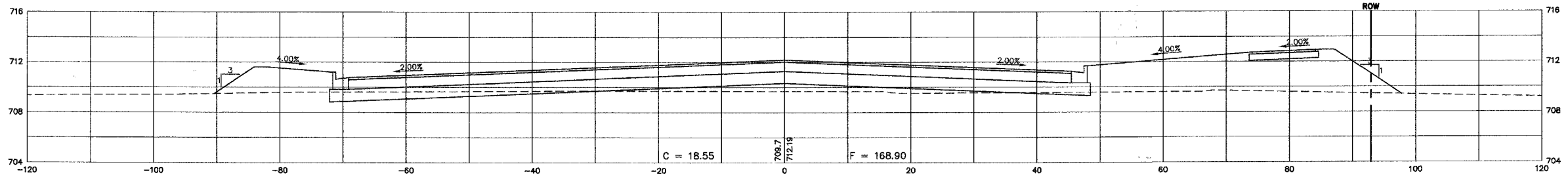
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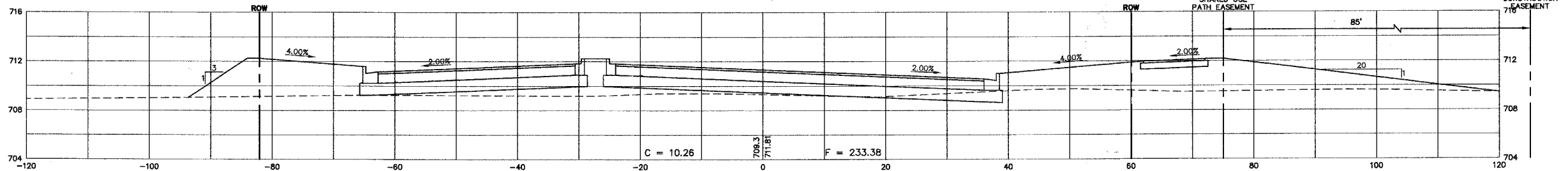
230+50 (LOCATED WITHIN IL. ROUTE 47)



230+00 (LOCATED WITHIN IL. ROUTE 47)



229+50



SCALE:  
 HORZ. 1" = 10'  
 VERT. 1" = 5'

THE PROPOSED ELEVATIONS SHOWN AT THE CENTERLINE EQUALS THE PGL AT 9' LT./RT.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

GALENA BOULEVARD  
 CROSS SECTIONS

SCALE:  
 DATE: 02/07/08

DRAWN BY: KKP  
 CHECKED BY: WBR

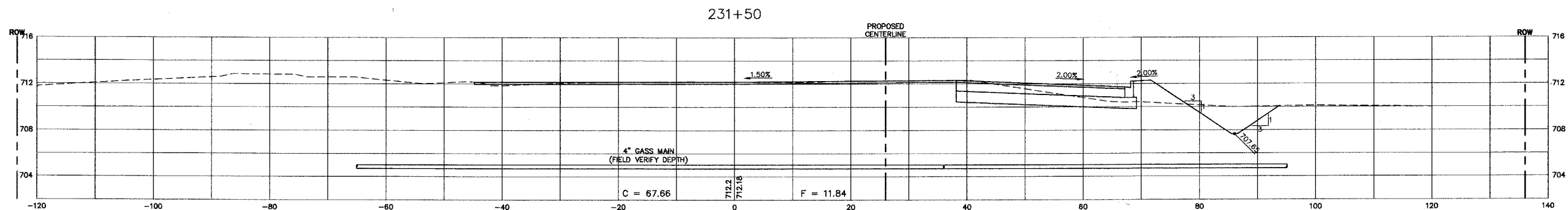
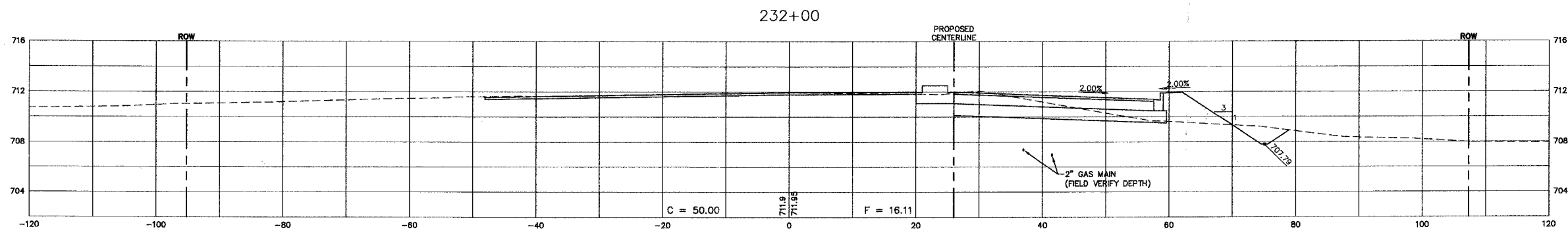
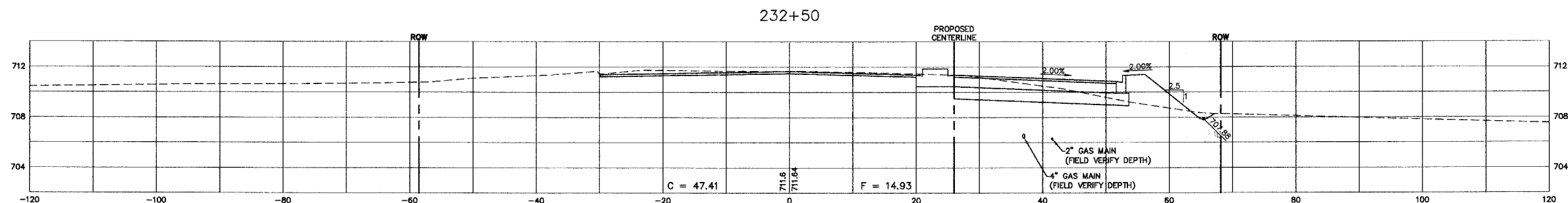
PLAN	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	
	ALIGNMENT CHECKED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	CADD FILE NAME	

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



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	06-00017-00-PV	KANE	232	192
STA.		TO STA.		
FED. ROAD DIST. NO. _		ILLINOIS	FED. AID PROJECT	

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



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

SCALE:  
 HORZ. 1" = 10'  
 VERT. 1" = 5'

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**GALENA BOULEVARD  
 CROSS SECTIONS**

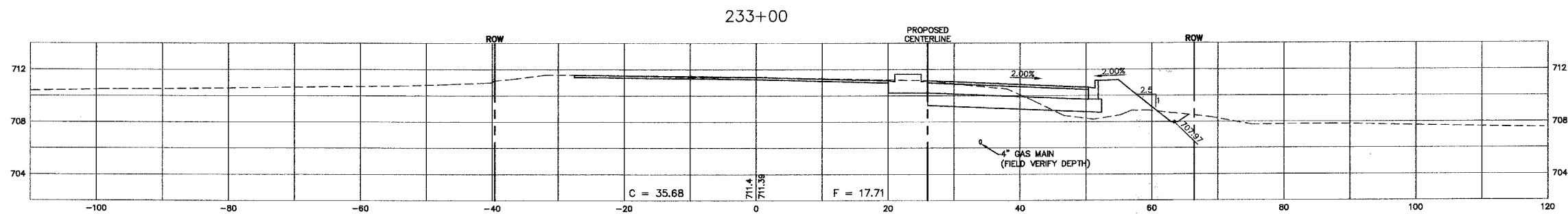
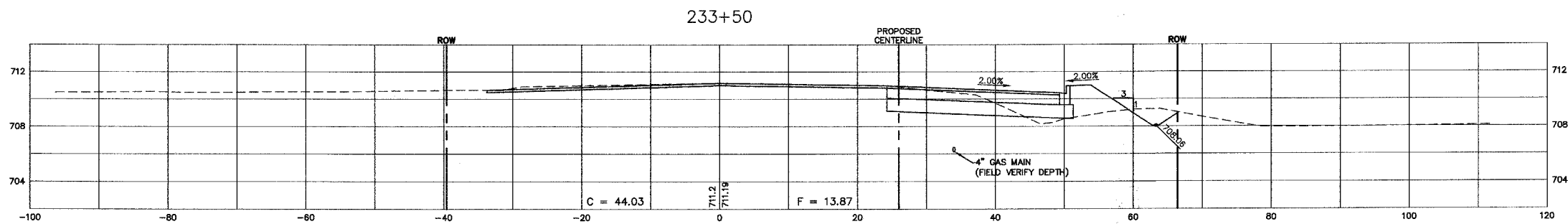
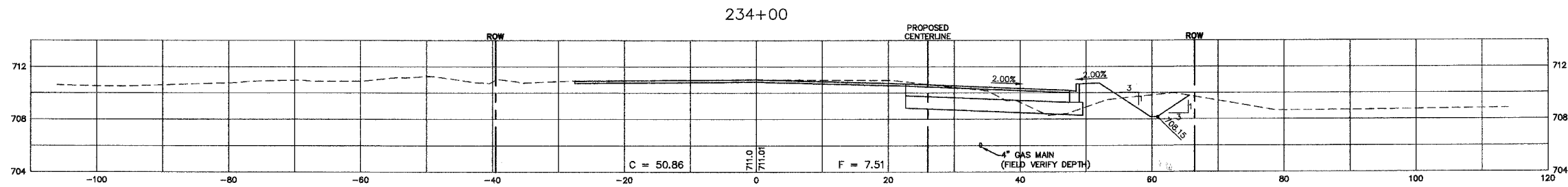
SCALE:  
 DATE: 02/07/08

DRAWN BY: KKP  
 CHECKED BY: WBR



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	06-00017-00-PV	KANE	232	193
STA.		TO STA.		
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT		

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	NO. _____	
	CADD FILE NAME	



PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES	
	STRUCTURE	
	NOTATION	
	CHKD	

SCALE:  
 HORZ. 1" = 10'  
 VERT. 1" = 5'

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**GALENA BOULEVARD  
 CROSS SECTIONS**

SCALE: DATE: 02/07/08

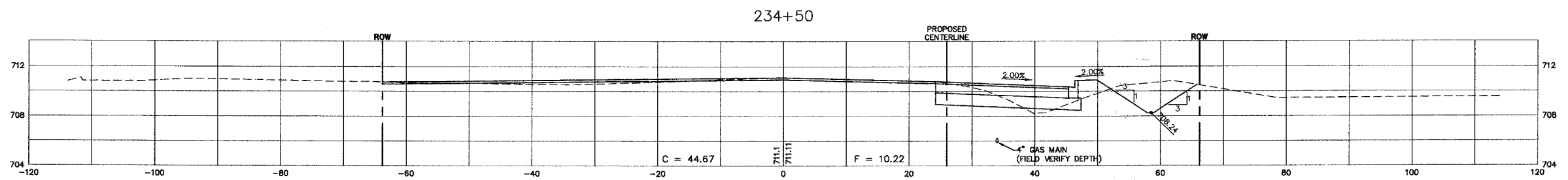
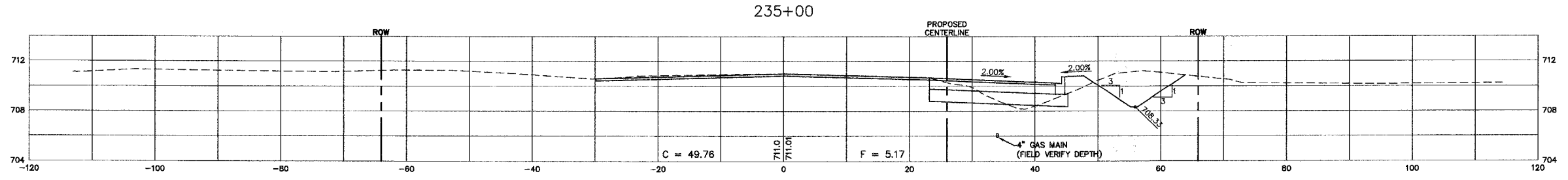
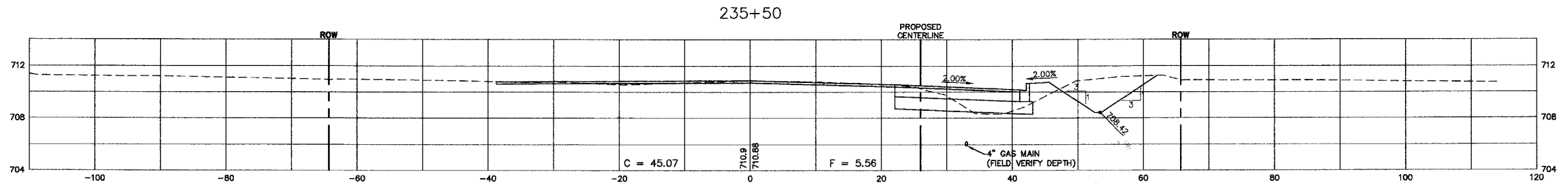
DRAWN BY: KKP  
 CHECKED BY: WBR



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	06-00017-00-PV	KANE	232	194
STA.		TO STA.		
FED. ROAD DIST. NO. _ ILLINOIS		FED. AID PROJECT		

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	NO. _____	
	NOTE BOOK	
	NO. _____	
	CADD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES	
	CHECKED	
	STRUCTURE	
	NOTATIONS	
	CHKD	
	NO. _____	



SCALE:  
 HORZ. 1" = 10'  
 VERT. 1" = 5'

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

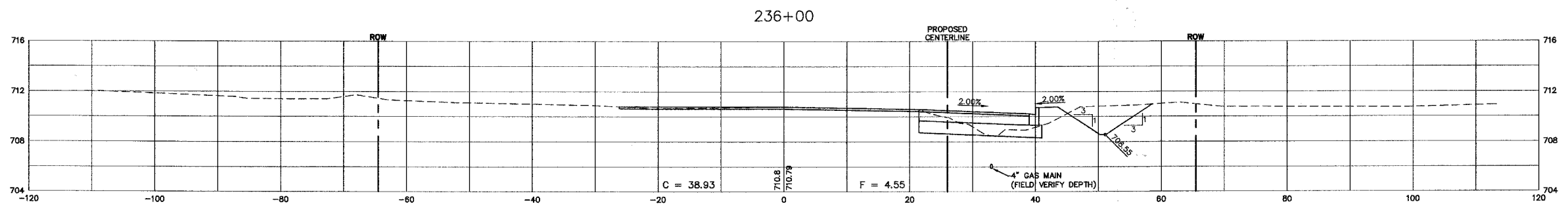
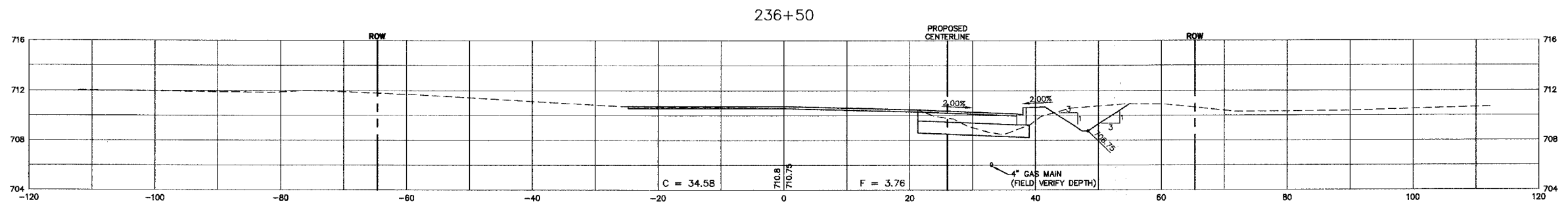
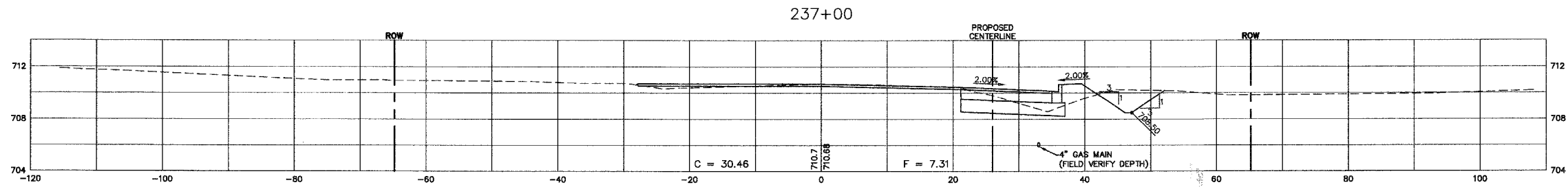
GALENA BOULEVARD  
 CROSS SECTIONS

SCALE: DATE: 02/07/08  
 DRAWN BY: KKP  
 CHECKED BY: WBR



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	06-00017-00-PV	KANE	232	195
STA.		TO STA.		
FED. ROAD DIST. NO. - ILLINOIS		FED. AID PROJECT		

PLAN	SURVEYED	DATE
NOTE BOOK NO.	ALIGNED	
	CHKD	
	BY	
	DATE	



PROFILE	SURVEYED	DATE
NOTE BOOK NO.	GRADES	
	CHKD	
	BY	
	DATE	

SCALE:  
 HORZ. 1" = 10'  
 VERT. 1" = 5'

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

## GALENA BOULEVARD CROSS SECTIONS

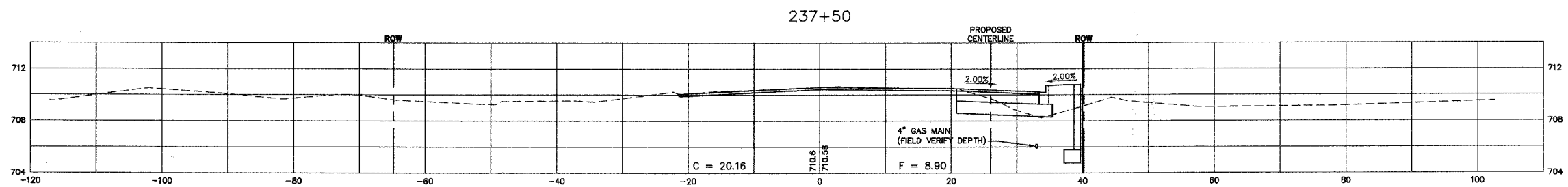
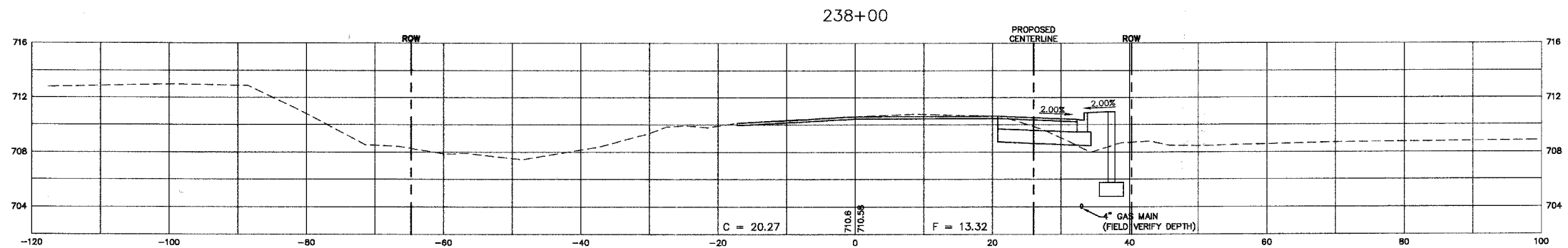
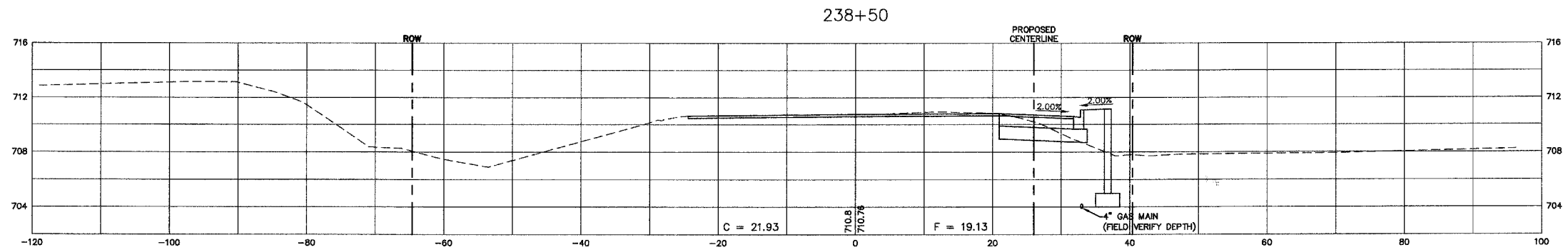
SCALE: \_\_\_\_\_ DATE: 02/07/08

DRAWN BY: KKP  
 CHECKED BY: WBR



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	06-00017-00-PV	KANE	232	196
STA.		TO STA.		
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT		

PLAN	SURVEYED	DATE
NOTE BOOK	ALIGNED	BY
NO.	CHECKED	
	CADD FILE NAME	



PROFILE	SURVEYED	DATE
NOTE BOOK	GRADES CHECKED	BY
NO.	STRUCTURE NOTATIONS CHK'D	

SCALE:  
 HORZ. 1" = 10'  
 VERT. 1" = 5'

RETAINING WALL  
 FROM STATION  
 237+10 RT. TO  
 242+20 RT.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

# GALENA BOULEVARD CROSS SECTIONS

SCALE:  
 DATE: 02/07/08

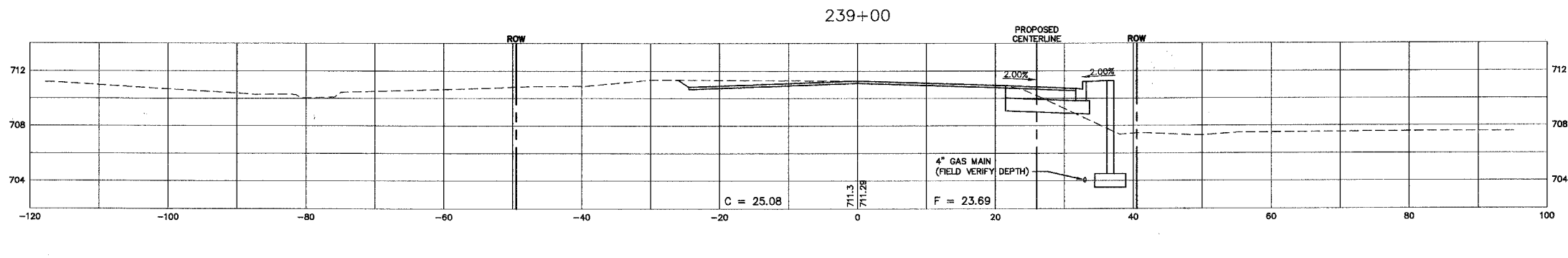
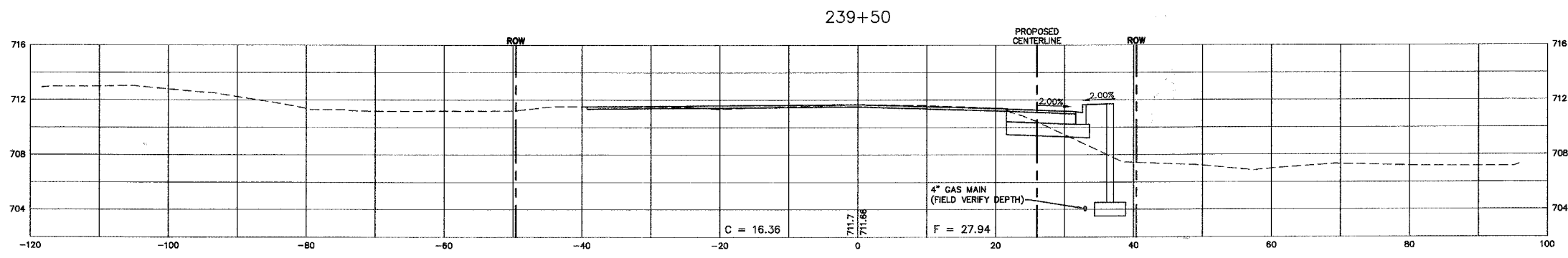
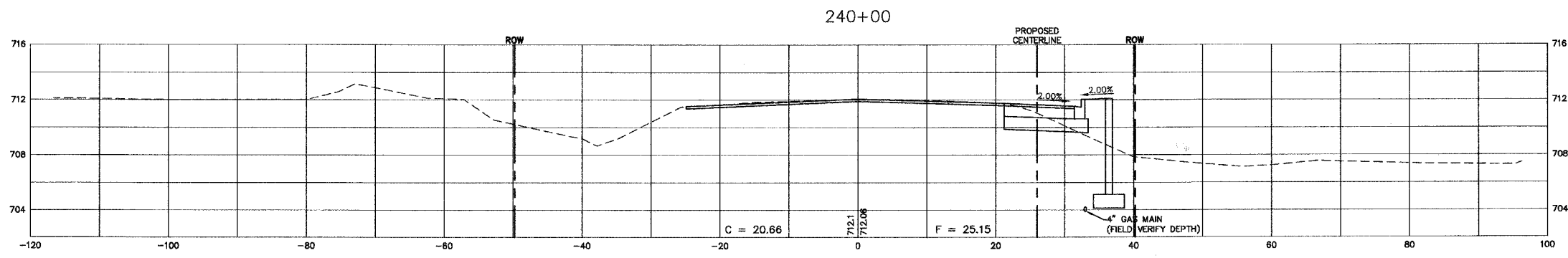
DRAWN BY: KKP  
 CHECKED BY: WBR





F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	06-00017-00-PV	KANE	232	197
STA.		TO STA.		
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT		

PLAN	DATE
BY	
REVISIONS	
NOTED	
PLANNED	
CHECKED	
NO.	



PROFILE	DATE
BY	
REVISIONS	
NOTED	
PLANNED	
CHECKED	
NO.	

RETAINING WALL FROM STATION 237+10 RT. TO 242+20 RT.

SCALE:  
HORIZ. 1" = 10'  
VERT. 1" = 5'

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

### GALENA BOULEVARD CROSS SECTIONS

SCALE: DATE: 02/07/08 DRAWN BY: KKP CHECKED BY: WBR

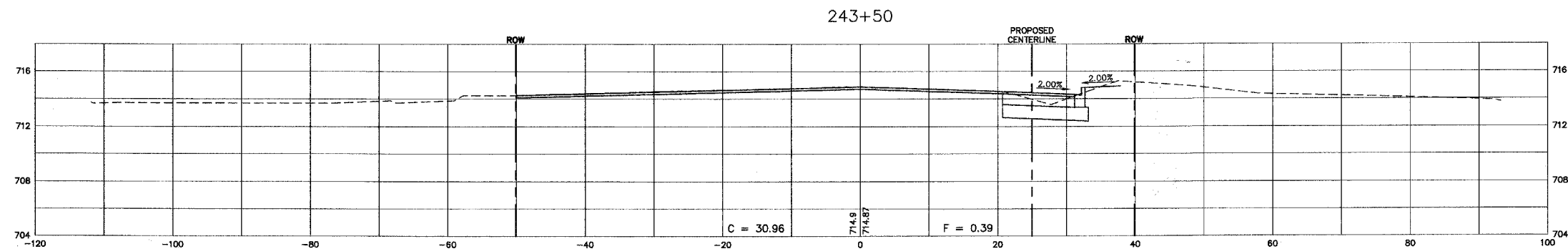
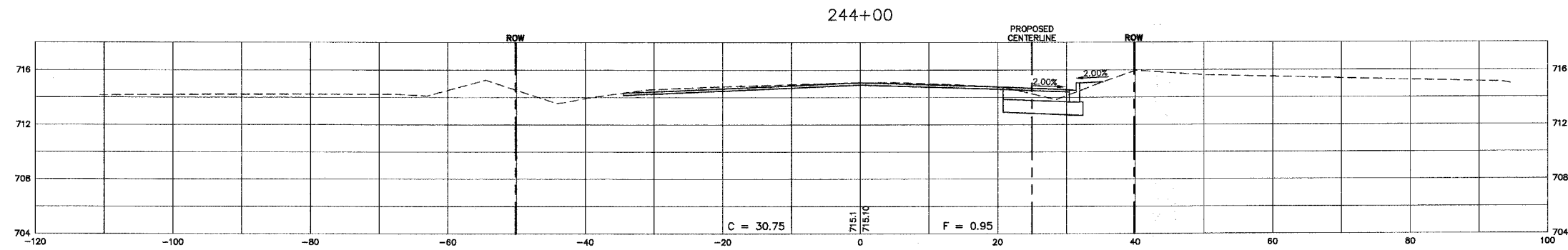
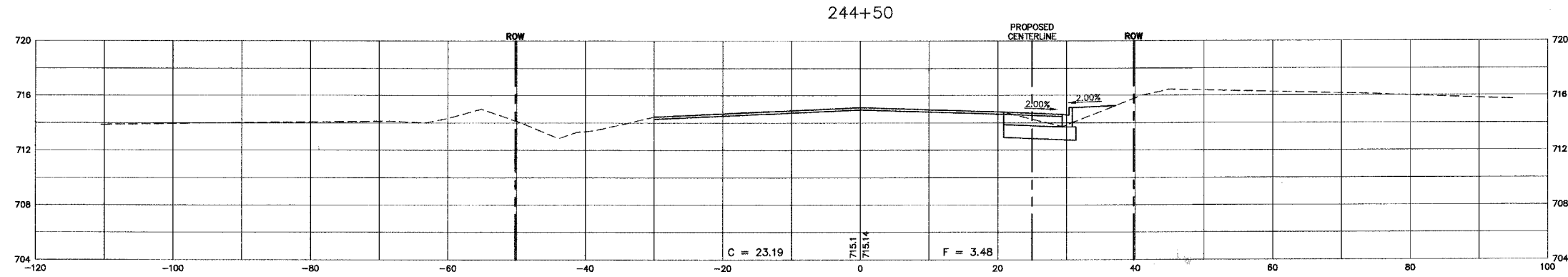






F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	06-00017-00-PV	KANE	232	200
STA.		TO STA.		
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT		

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	CADD FILE NAME	
	NO.	



PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO.	

SCALE:  
 HORZ. 1" = 10'  
 VERT. 1" = 5'

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**GALENA BOULEVARD  
 CROSS SECTIONS**

SCALE:  
 DATE: 02/07/08

DRAWN BY: KKP  
 CHECKED BY: WBR