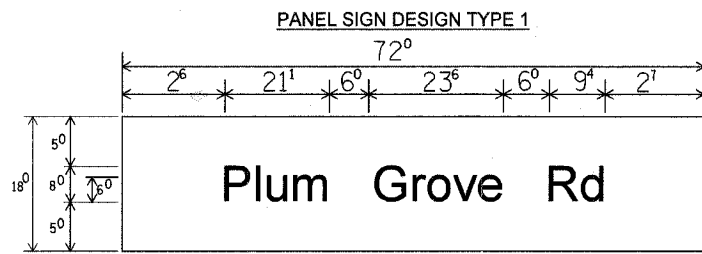
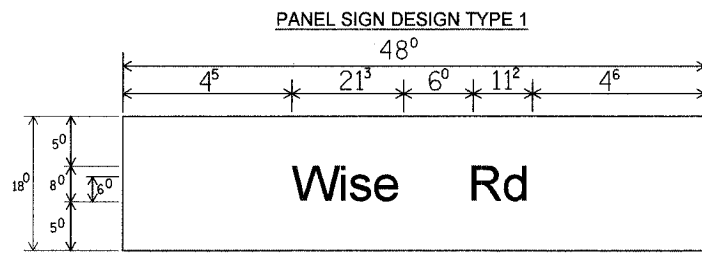


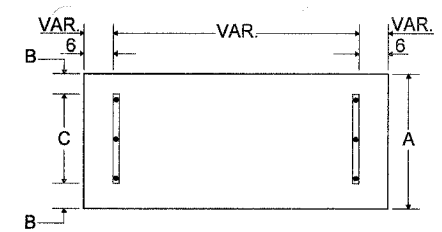
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS
1338 05-00083-00-FF	COOK	167	101
STA.	TO STA.		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT M-8003(512)			



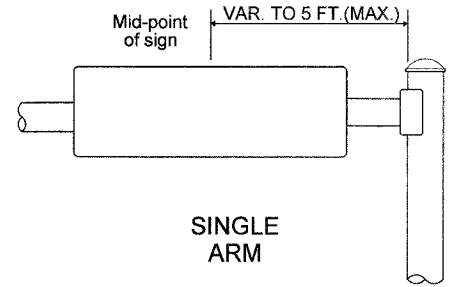
___ Sq. M Each
6.00 Sq. Ft. Each
2 Required
Design Series D

___ Sq. M Each
9.00 Sq. Ft. Each
2 Required
Design Series C

SUPPORTING CHANNELS

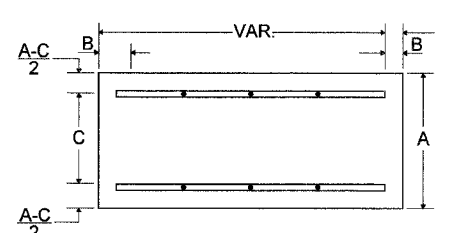


A	B	C
18"	2"	14"

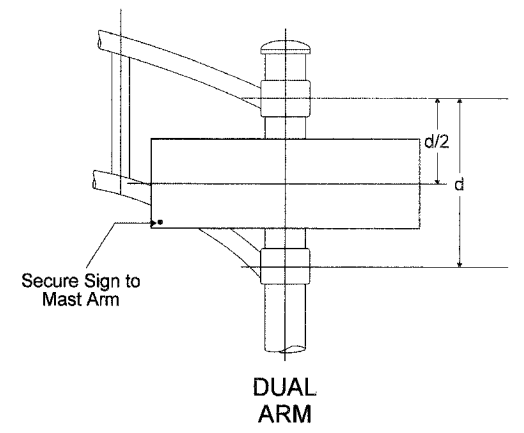


SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM shall be used. See Note #5.

SUPPORTING CHANNELS



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



EXAMPLE, 2③ DENOTES 3/8"

UPPER TO LOWER CASE SPACING CHART 8-6 INCH SERIES "C" & "D"

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

LOWER CASE TO LOWER CASE SPACING CHART 6 INCH SERIES "C" & "D"

SERIES	SECOND LETTER															
	a c d e		b h i k		f w		j		s t		v y		x		z	
	g o q	l m n p r u														
F	1 ⁶	1 ⁷	2 ²	2 ⁴	1 ⁶	1 ⁷	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ⁶	1 ⁷	1 ⁶	1 ⁷
I	1 ⁶	1 ⁷	2 ²	2 ⁴	1 ⁶	1 ⁷	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ⁶	1 ⁷	1 ⁶	1 ⁷
R	1 ⁶	1 ⁷	2 ²	2 ⁴	1 ⁶	1 ⁷	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ⁶	1 ⁷	1 ⁶	1 ⁷
S	1 ⁶	1 ⁷	2 ²	2 ⁴	1 ⁶	1 ⁷	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ⁶	1 ⁷	1 ⁶	1 ⁷
T	1 ²	1 ⁴	1 ⁶	1 ⁷	1 ¹	1 ²	0 ⁵	0 ⁶	1 ¹	1 ²	1 ¹	1 ²	1 ²	1 ⁴	1 ²	1 ⁴
L	1 ²	1 ⁴	1 ⁶	1 ⁷	1 ²	1 ⁴	0 ⁶	1 ⁰	1 ²	1 ⁴	1 ²	1 ⁴	1 ²	1 ⁴	1 ²	1 ⁴
E	0 ⁶	1 ⁰	1 ²	1 ⁴	0 ⁶	1 ⁰	0 ³	0 ³	0 ⁵	0 ⁶	0 ⁵	0 ⁶	0 ⁶	1 ⁰	0 ⁶	1 ⁰
T	1 ²	1 ⁴	1 ⁶	1 ⁷	1 ²	1 ⁴	0 ⁶	1 ⁰	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ⁴	1 ²
E	1 ²	1 ⁴	1 ⁶	1 ⁷	1 ²	1 ⁴	0 ⁶	1 ⁰	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ⁴	1 ²
T	1 ¹	1 ²	1 ⁴	1 ⁵	1 ¹	1 ²	0 ⁵	0 ⁶	0 ⁶	1 ⁰	0 ⁶	1 ⁰	1 ¹	1 ²	1 ¹	1 ²
E	1 ¹	1 ²	1 ⁴	1 ⁵	1 ¹	1 ²	0 ⁵	0 ⁶	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ²	1 ⁴
T	1 ¹	1 ²	1 ⁴	1 ⁵	1 ¹	1 ²	0 ⁵	0 ⁶	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ²	1 ⁴
R	1 ²	1 ⁴	1 ⁶	1 ⁷	1 ¹	1 ²	0 ⁵	0 ⁶	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ²	1 ⁴

NUMBER TO NUMBER SPACING CHART 8 INCH SERIES "C" & "D"

SERIES	SECOND NUMBER																			
	0		1		2		3		4		5		6		7		8		9	
0 9	1 ⁶	1 ⁷	1 ⁶	1 ⁷	1 ⁴	1 ⁵	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ⁶	1 ⁷	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ⁶	1 ⁷
1	2 ⁰	2 ¹	2 ⁰	2 ¹	2 ⁰	2 ¹	1 ⁶	1 ⁷	1 ⁴	1 ⁵	2 ⁰	2 ¹	2 ⁰	2 ¹	1 ⁴	1 ⁵	2 ⁰	2 ¹	2 ⁰	2 ¹
2 3 4	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ²	1 ⁴	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ¹	1 ²	1 ⁶	1 ⁷	1 ⁴	1 ⁵
5	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ¹	1 ²	1 ¹	1 ²	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ¹	1 ²	1 ⁴	1 ⁵	1 ⁴	1 ⁵
6	1 ⁶	1 ⁷	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ²	1 ⁴	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ¹	1 ²	1 ⁴	1 ⁵	1 ⁴	1 ⁵
7	1 ²	1 ⁴	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ²	1 ⁵	0 ⁵	0 ⁶	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ¹	1 ²	1 ⁴	1 ⁵	1 ²	1 ⁴
8	1 ⁶	1 ⁷	1 ⁶	1 ⁷	1 ⁴	1 ⁵	1 ²	1 ⁵	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ⁶	1 ⁷	1 ²	1 ⁴	1 ⁶	1 ⁷	1 ⁴	1 ⁵

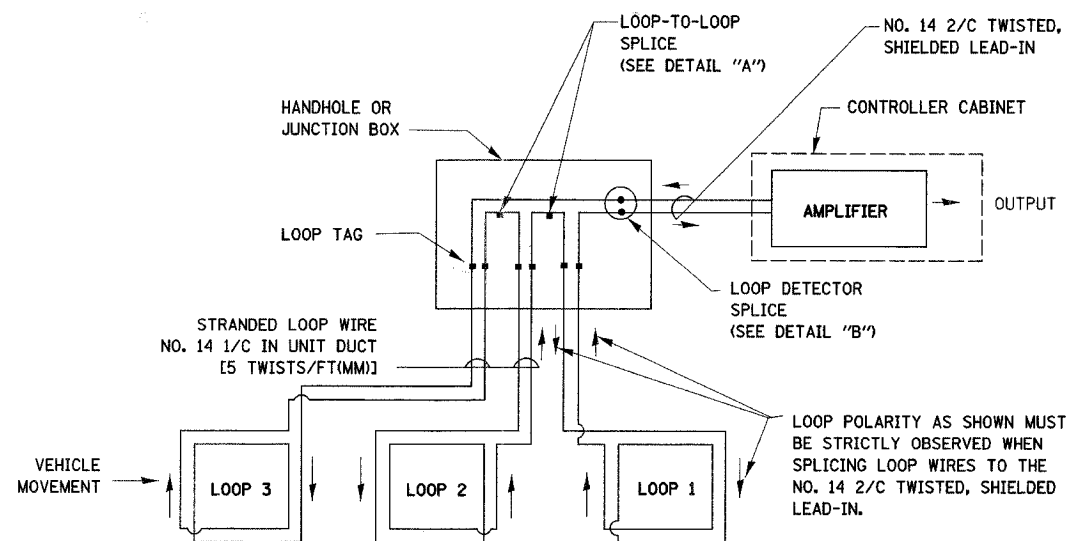
UPPER AND LOWER CASE LETTER WIDTHS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1338	05-00083-00-FR	COOK	155	102
STA.		TO STA.		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

LOOP DETECTOR NOTES

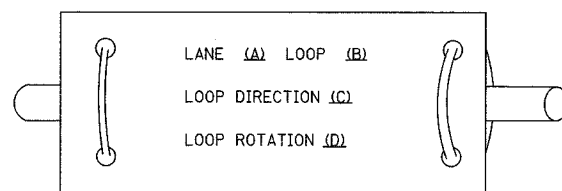
1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE UNIT DUCT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). UNIT DUCT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED 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.



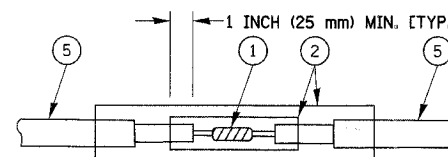
DETECTOR LOOP WIRING SCHEMATIC

- 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.

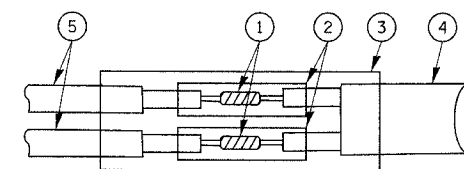
LOOP LEAD-IN CABLE TAG



- 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

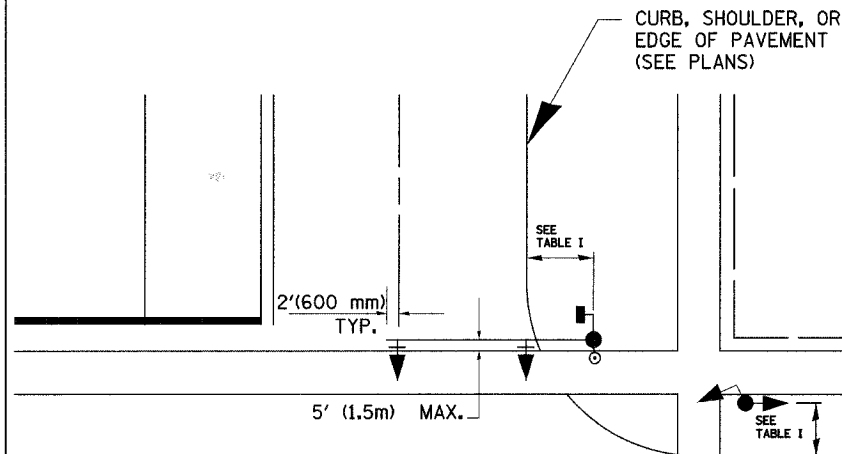
SCALE: VERT. NONE
HORIZ. NONE
DATE 1-01-02

DRAWN BY: RWP
DESIGNED BY: DAD
CHECKED BY: DAZ
SHEET 1 OF 4

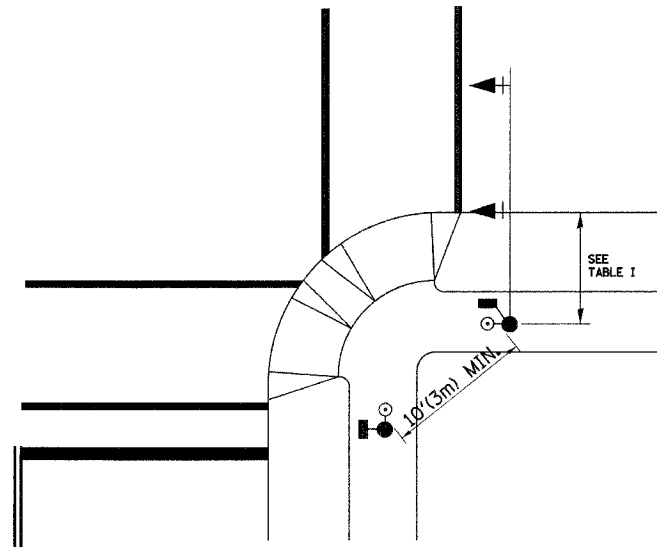
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1338	05-00083-00-FP	COOK	155	103
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		

TRAFFIC SIGNAL MAST ARM AND POST

MAST ARM MOUNTED SIGNAL IN PROPOSED & FUTURE SIDEWALK AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNAL AND PUSHBUTTON DETECTOR



PEDESTRIAN SIGNAL PUSHBUTTON



RECOMMENDED PUSHBUTTON LOCATIONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHALL BE IN ACCORDANCE WITH THE CURRENT MUTCD (SEE NOTE 1). TO MEET MUTCD REQUIREMENTS, PEDESTRIAN SIGNAL PUSHBUTTONS MAY HAVE TO BE MOUNTED ON A SEPARATE POST.

NOTES:

- AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS WITH PEDESTRIAN ACTUATION, EACH PUSHBUTTON SHALL ACTIVATE BOTH THE WALK INTERVAL AND THE ACCESSIBLE PEDESTRIAN SIGNALS.
 AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS, PUSHBUTTONS SHOULD CLEARLY INDICATE WHICH CROSSWALK SIGNAL IS ACTUATED BY EACH PUSHBUTTON. PUSHBUTTONS AND TACTILE ARROWS SHOULD HAVE HIGH VISUAL CONTRAST (SEE THE DEPARTMENT OF JUSTICE'S AMERICANS WITH DISABILITIES ACT STANDARDS FOR ACCESSIBLE DESIGN, 1991). TACTILE ARROWS SHOULD POINT IN THE SAME DIRECTION AS THE ASSOCIATED CROSSWALK. AT CORNERS OF SIGNALIZED LOCATIONS WITH ACCESSIBLE PEDESTRIAN SIGNALS WHERE PEDESTRIAN PUSHBUTTONS ARE PROVIDED, THE PUSHBUTTONS SHOULD BE SEPARATED BY THE DISTANCE OF AT LEAST 10 FT (3m). THIS ENABLES PEDESTRIANS WHO HAVE VISUAL DISABILITIES TO DISTINGUISH AND LOCATE THE APPROPRIATE PUSHBUTTON.
 PUSHBUTTONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHOULD BE LOCATED AS FOLLOWS:
 A: ADJACENT TO A LEVEL ALL-WEATHER SURFACE TO PROVIDE ACCESS FROM A WHEELCHAIR, AND WHERE THERE IS AN ALL WEATHER SURFACE, WHEELCHAIR ACCESSIBLE ROUTE TO THE RAMP.
 B: WITHIN 5 FT (1.5m) OF THE CROSSWALK EXTENDED.
 C: WITHIN 10 FT (3m) OF THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
 D: PARALLEL TO THE CROSSWALK TO BE USED (SEE MUTCD FIGURE 4E-2).
 E: NORMAL PEDESTRIAN PUSHBUTTON MOUNTING HEIGHT SHOULD BE 3.5 FT (1.05m) ABOVE ADJACENT SIDEWALK.
- PEDESTRIAN SIGNAL FACES SHALL BE MOUNTED WITH THE BOTTOM OF THE HOUSING NOT LESS THAN 8 FT (2.4m) NOR MORE THAN 10 FT (3.0m) ABOVE THE SIDEWALK LEVEL AND SO THERE IS A PEDESTRIAN INDICATION IN THE LINE OF PEDESTRIANS' VISION WHICH PERTAINS TO THE CROSSWALK BEING USED.
- THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, NOT MOUNTED OVER A ROADWAY, SHALL BE AT LEAST 10 FT (3.0m) BUT NOT MORE THAN 15 FT (4.5m) ABOVE THE SIDEWALK OR, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE HIGHWAY IF NO SIDEWALKS EXIST.
- THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, MOUNTED OVER A ROADWAY, SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001 AND 877006. (16 FT (5m) MIN., 18 FT (5.5m) MAX., FROM HIGHEST POINT OF PAVEMENT)

PEDESTRIAN SIGNAL POST

PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSHBUTTON DETECTOR LOCATION

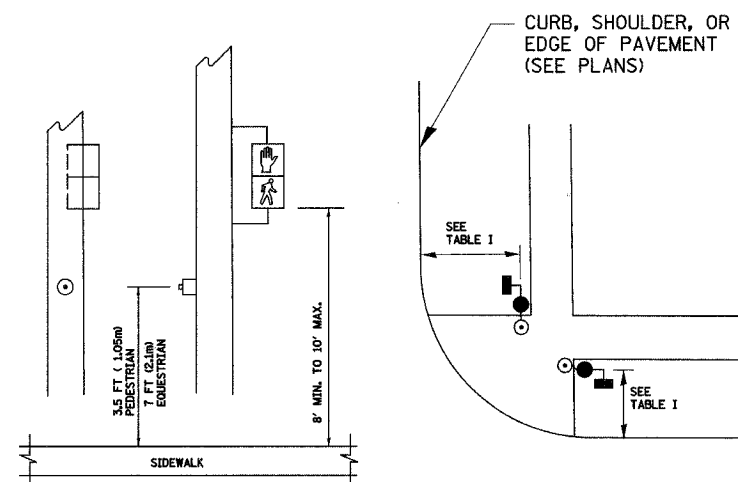


TABLE I

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MIN. DIST. FROM BACK OF CURB)	SHOULDER/NON-CURBED AREA (MIN. DIST. FROM EDGE OF PAVEMENT)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN PUSHBUTTON	SEE NOTE 1	SEE NOTE 1

REVISIONS	
NAME	DATE

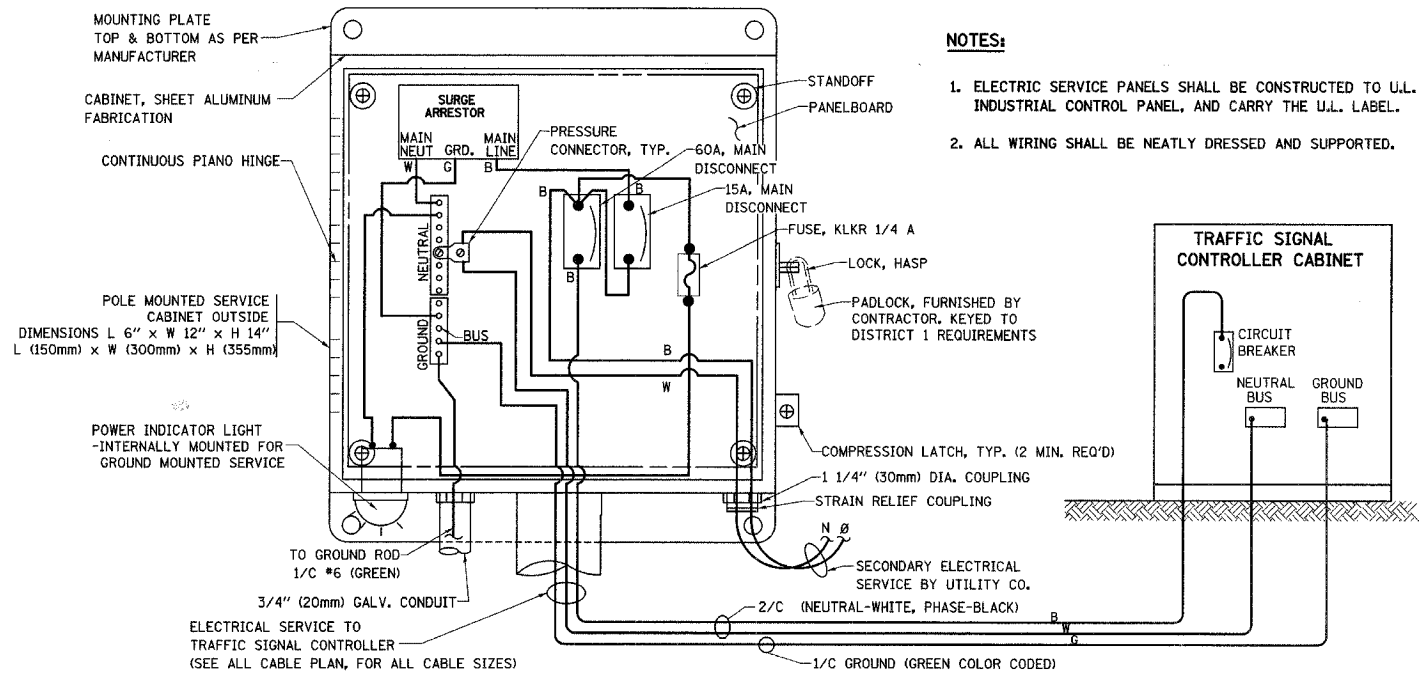
ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT 1
STANDARD TRAFFIC SIGNAL
DESIGN DETAILS

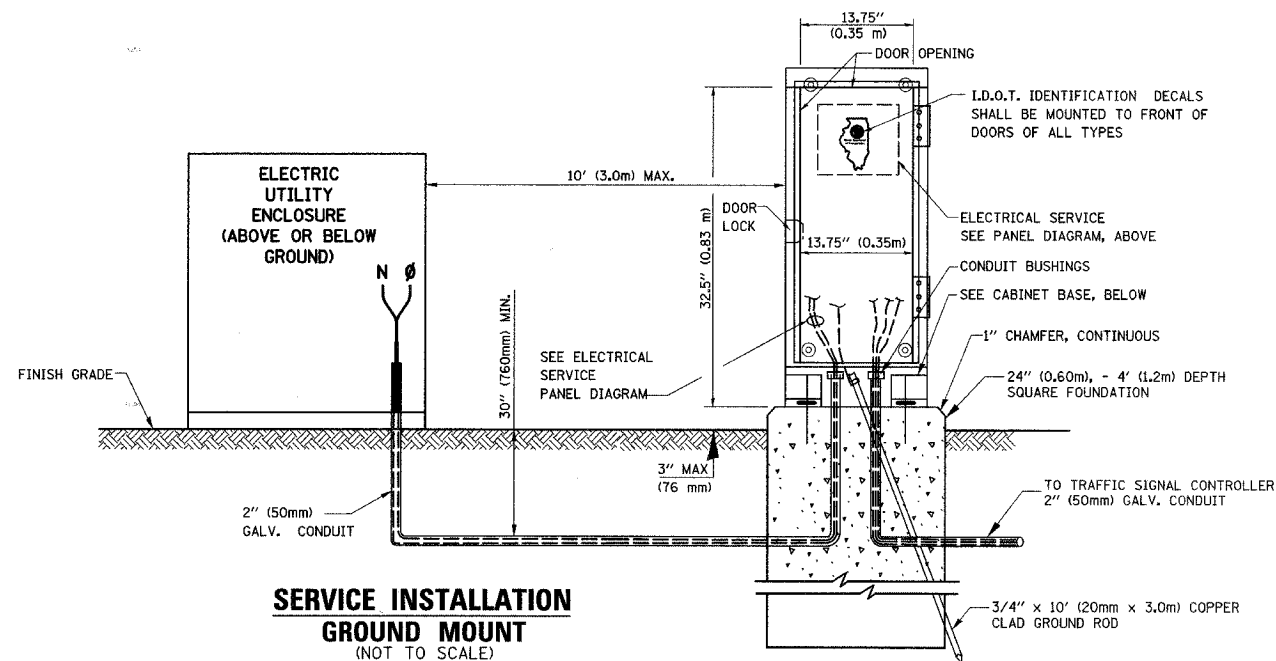
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HORIZ.
DATE 1-01-02

DRAWN BY: RWP
DESIGNED BY: DAD
CHECKED BY: DAZ
SHEET 2 OF 4

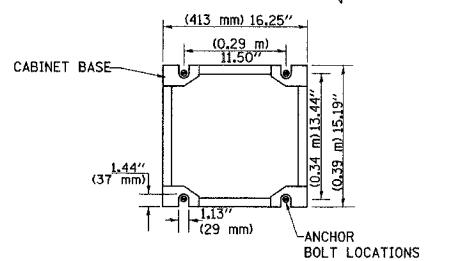
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.	TO STA.			
FED. ROAD DIST. NO. 7 (ILLINOIS) FED. AID PROJECT				



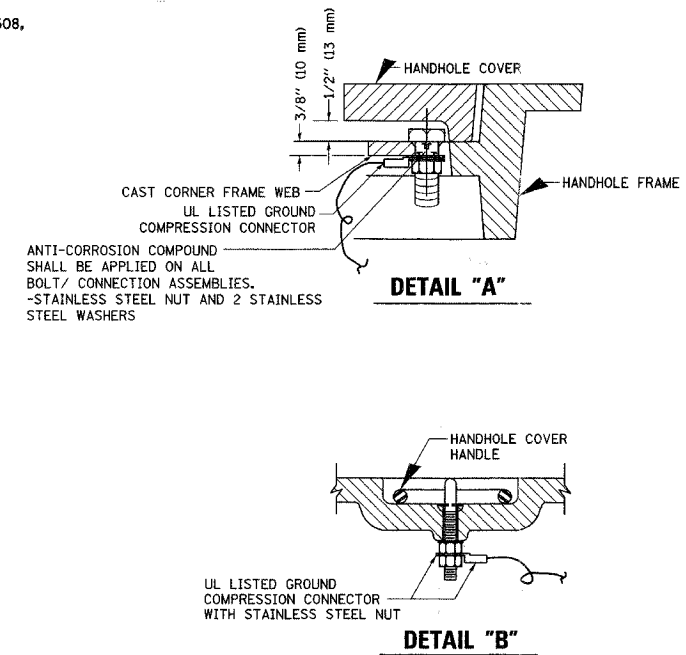
ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
 (NOT TO SCALE)



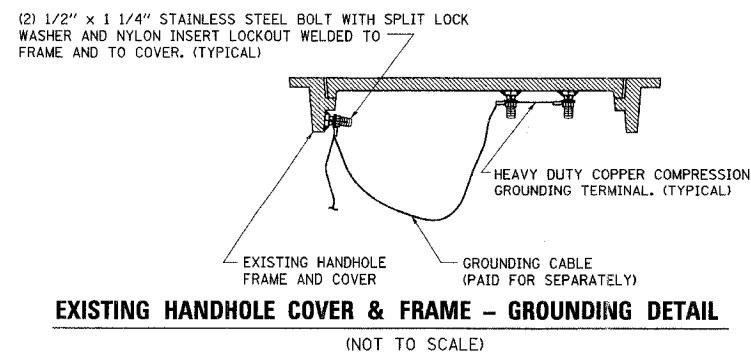
SERVICE INSTALLATION GROUND MOUNT (NOT TO SCALE)



CABINET - BASE BOLT PATTERN (NOT TO SCALE)



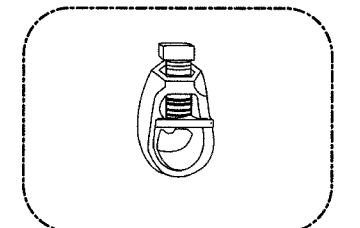
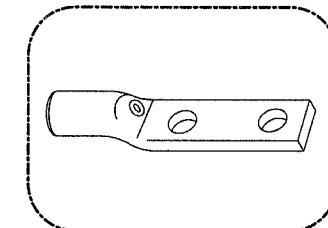
HANDHOLE COVER & FRAME - GROUNDING DETAIL (NOT TO SCALE)



NOTES:

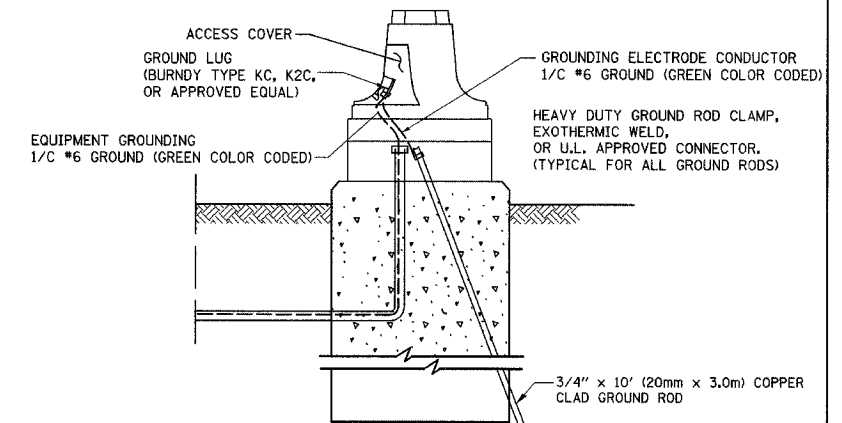
GROUNDING SYSTEM

- THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
- THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
- ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
- THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



NOTES:

- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



MAST ARM POLE / POST-GROUNDING DETAIL (NOT TO SCALE)

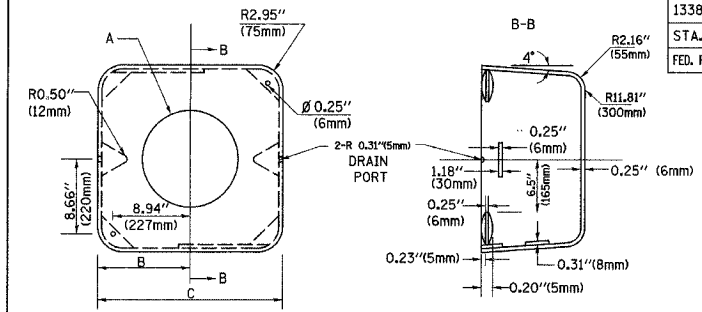
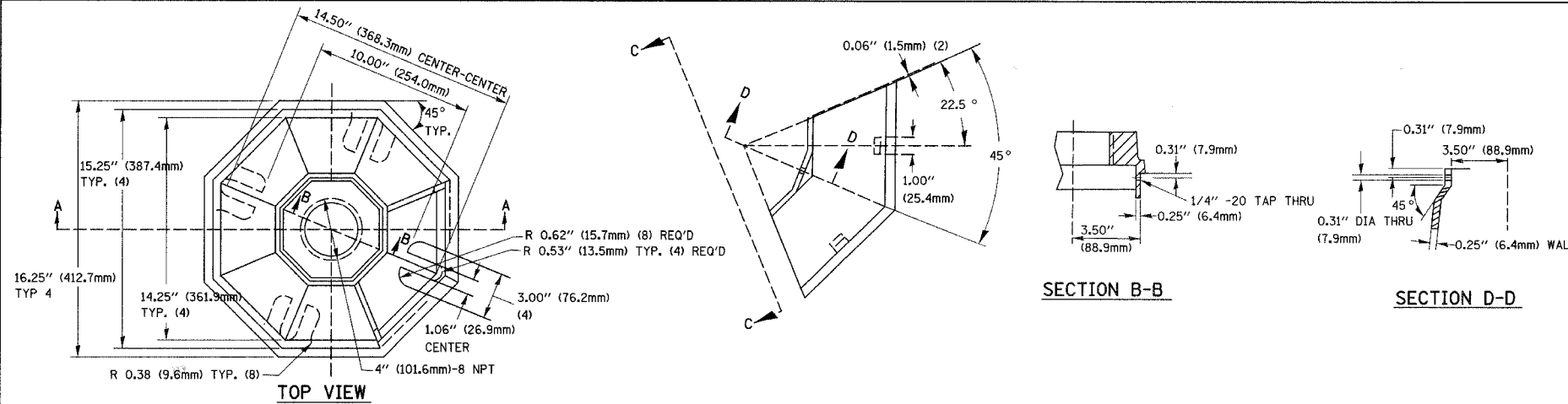
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DISTRICT 1
 STANDARD TRAFFIC SIGNAL
 DESIGN DETAILS

SCALE:
 DATE 1-01-02

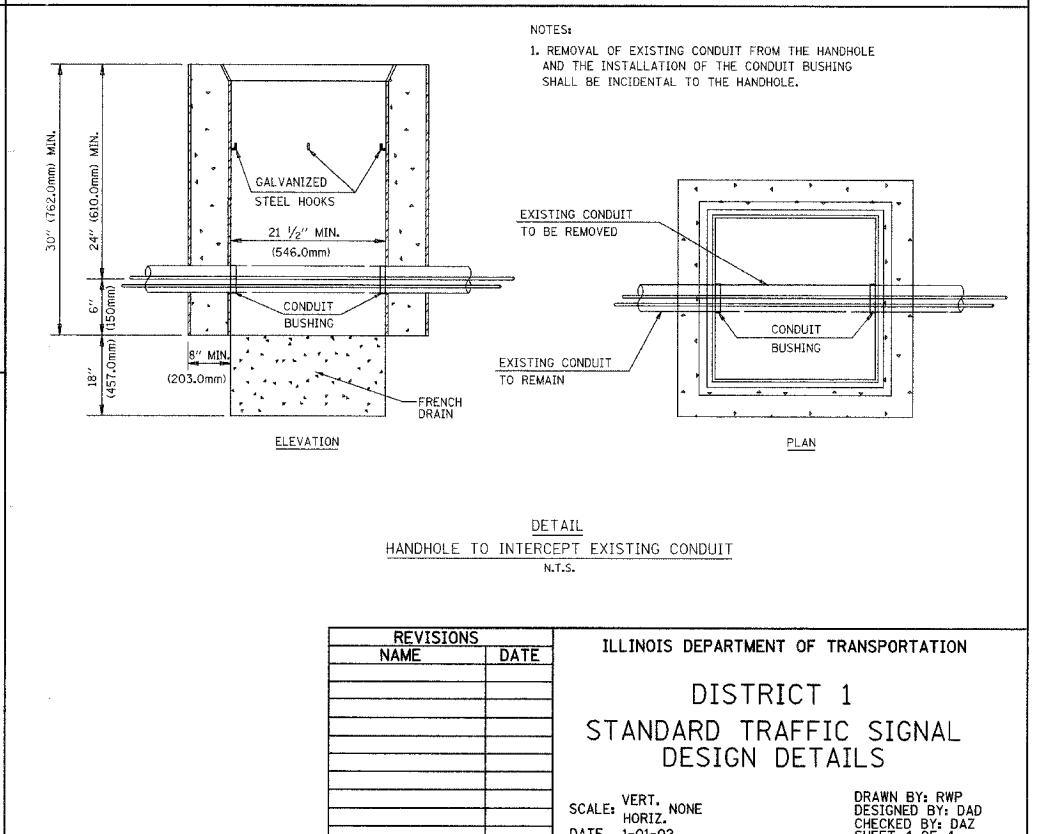
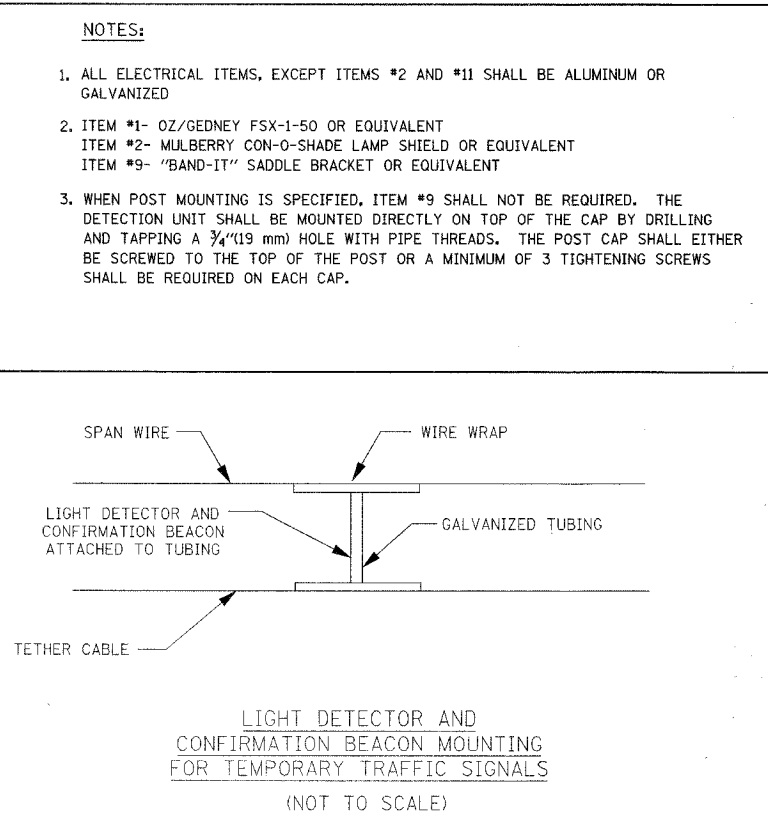
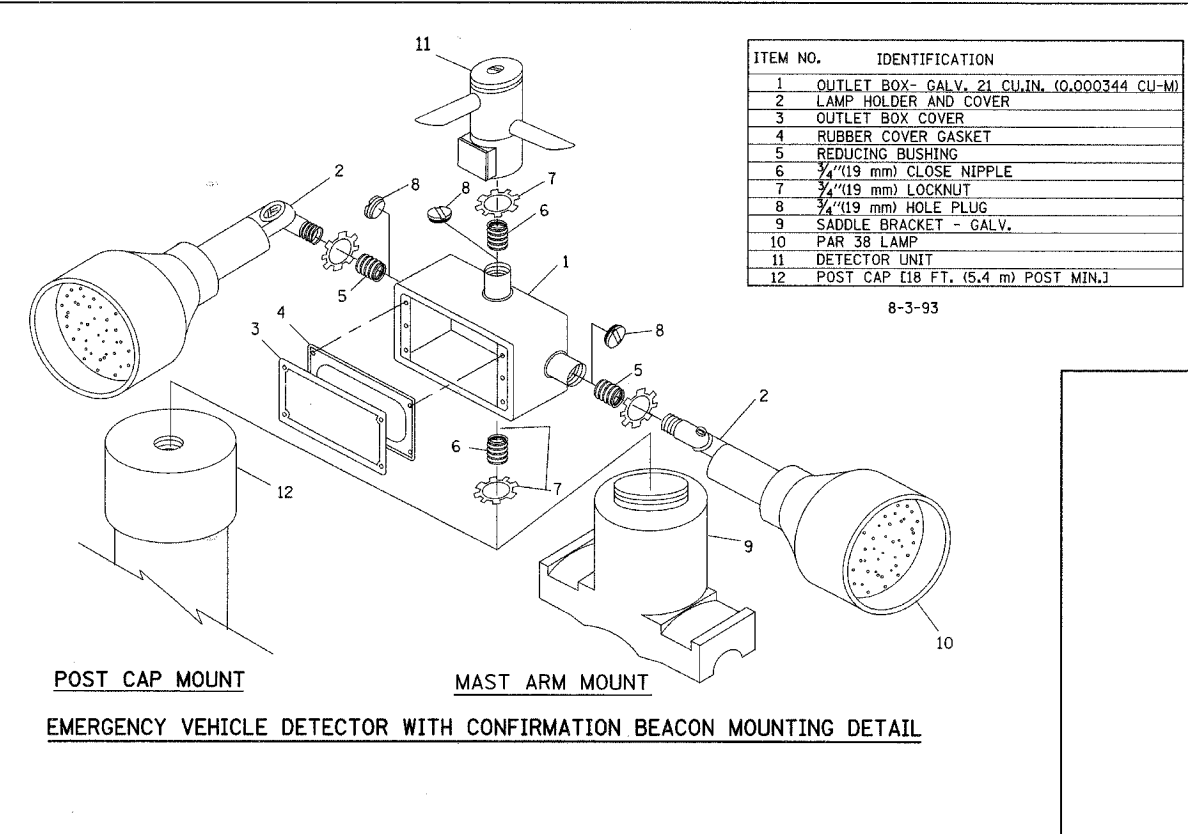
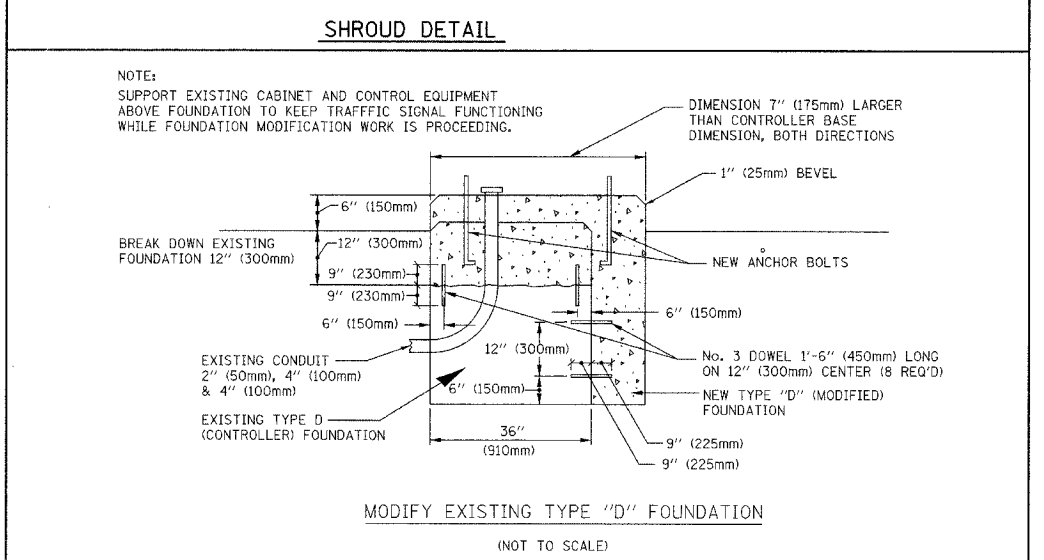
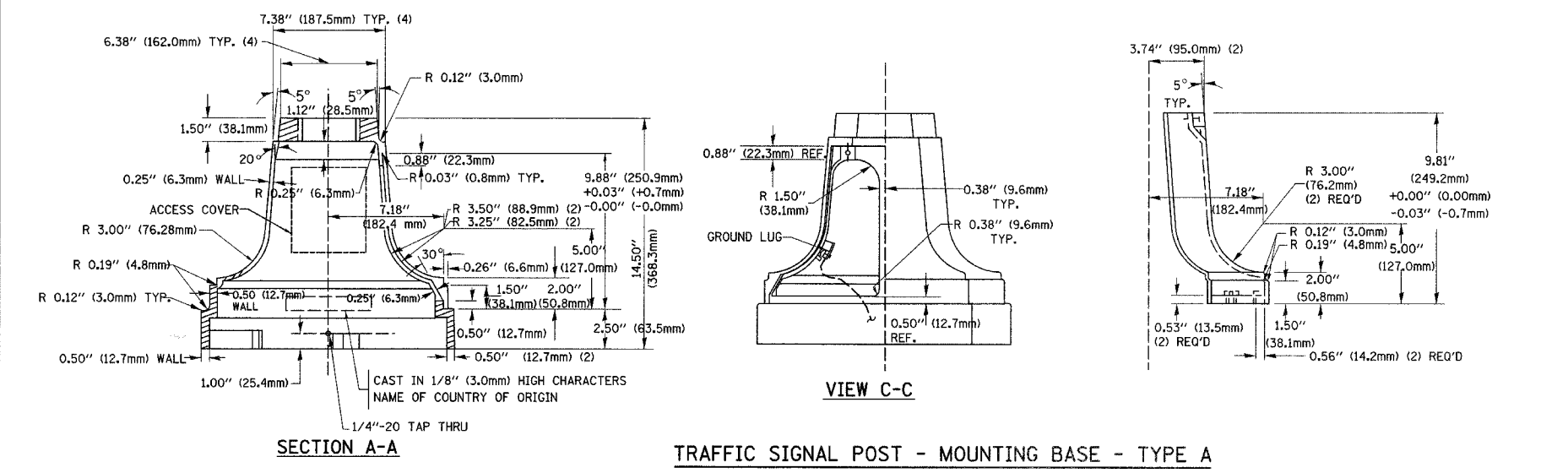
DRAWN BY: RWP
 DESIGNED BY: DAD
 CHECKED BY: DAZ
 SHEET 3 OF 4

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1338 05-00083-00-FF	COOK	ILLINOIS	155	105
STA.		TO STA.		
FED. ROAD DIST. NO. 7				



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

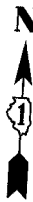
MATERIAL:
 - ASTM A48 CLASS 30 GREY IRON
 - ASTM A123 HOT DIPPED GALVANIZED



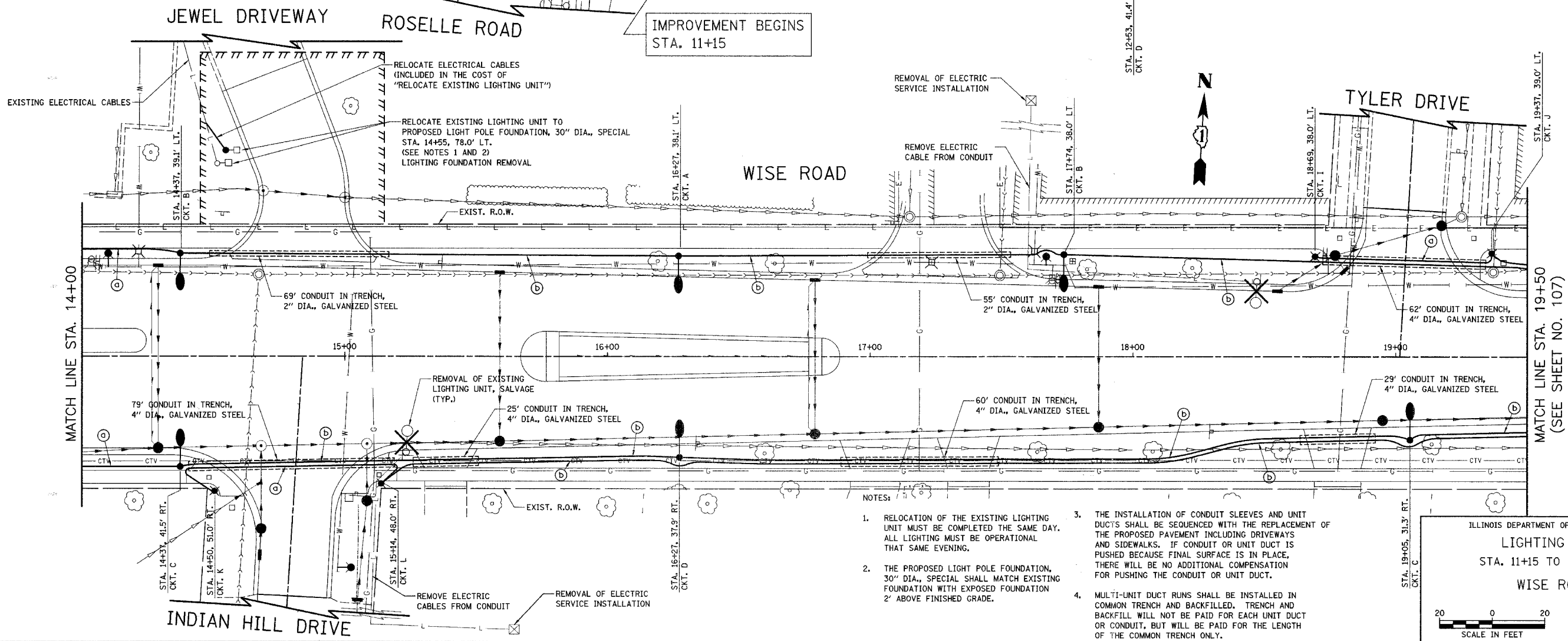
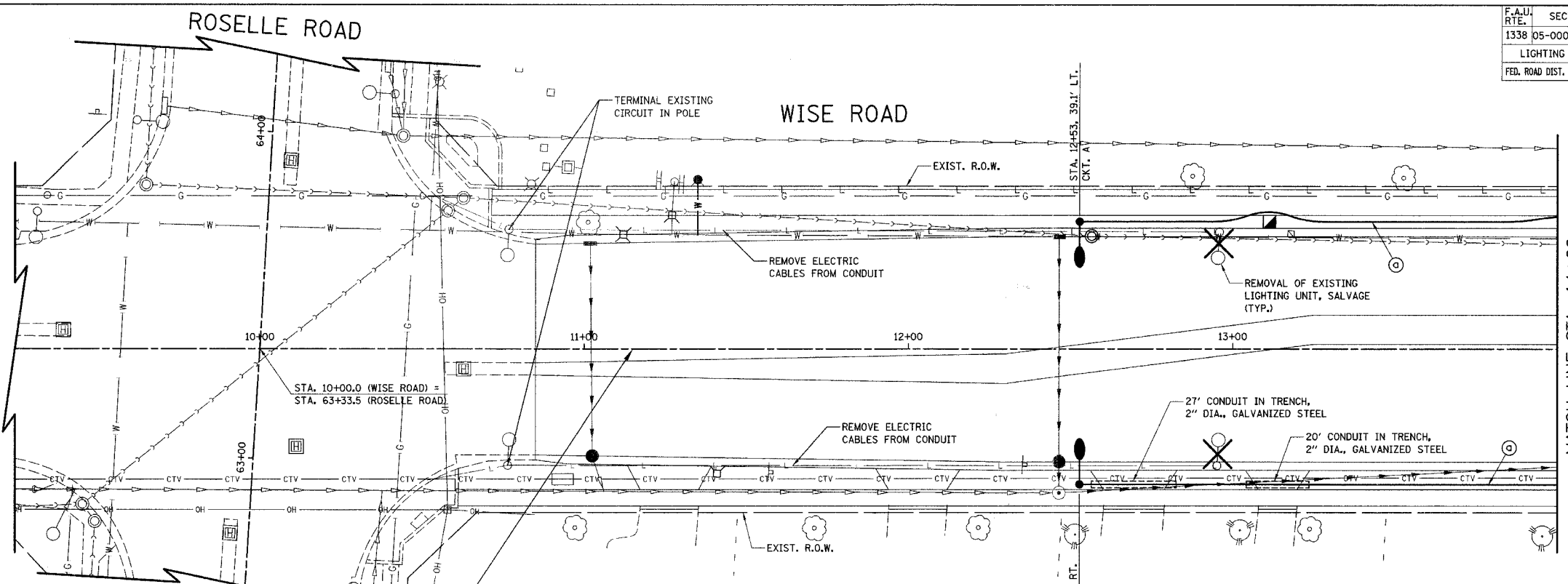
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DISTRICT 1
 STANDARD TRAFFIC SIGNAL
 DESIGN DETAILS
 SCALE: VERT. NONE
 HORIZ. NONE
 DATE 1-01-02
 DRAWN BY: RWP
 DESIGNED BY: DAD
 CHECKED BY: DAZ
 SHEET 4 OF 4

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1338	05-0083-00-FP	COOK	167	106
LIGHTING PLAN - STA. 11+15 TO STA. 19+50				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT W-80035121				



- LEGEND**
- PROPOSED LIGHTING UNIT
250 WATT HPS, 240 V, MS III, 30' MH, 12' MA
 - PROPOSED LIGHTING UNIT
250 WATT HPS, 240 V, MS III, 40' MH, 12' MA
 - PROPOSED LIGHTING UNIT
400 WATT HPS, 240 V, MS III, 40' MH, 12' MA
 - PROPOSED DECORATIVE LIGHTING UNIT
100 WATT HPS, 240 V, 12' MH
 - EXISTING LIGHTING UNIT
 - PROPOSED LIGHTING HANDHOLE
 - PROPOSED LIGHTING CONTROLLER, SPECIAL
200 AMP, 240/480 V
 - REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE
 - PROPOSED CONDUIT IN TRENCH, GALVANIZED STEEL
(SIZE AS SPECIFIED)
 - PROPOSED UNIT DUCT
 - (a) 600V, 2-1C NO. 4, 1/C NO. 4 GROUND,
(XLP-TYPE USE), 1" DIA., POLYETHYLENE
 - (b) 600V, 3-1C NO. 4, 1/C NO. 4 GROUND,
(XLP-TYPE USE), 1 1/4" DIA., POLYETHYLENE



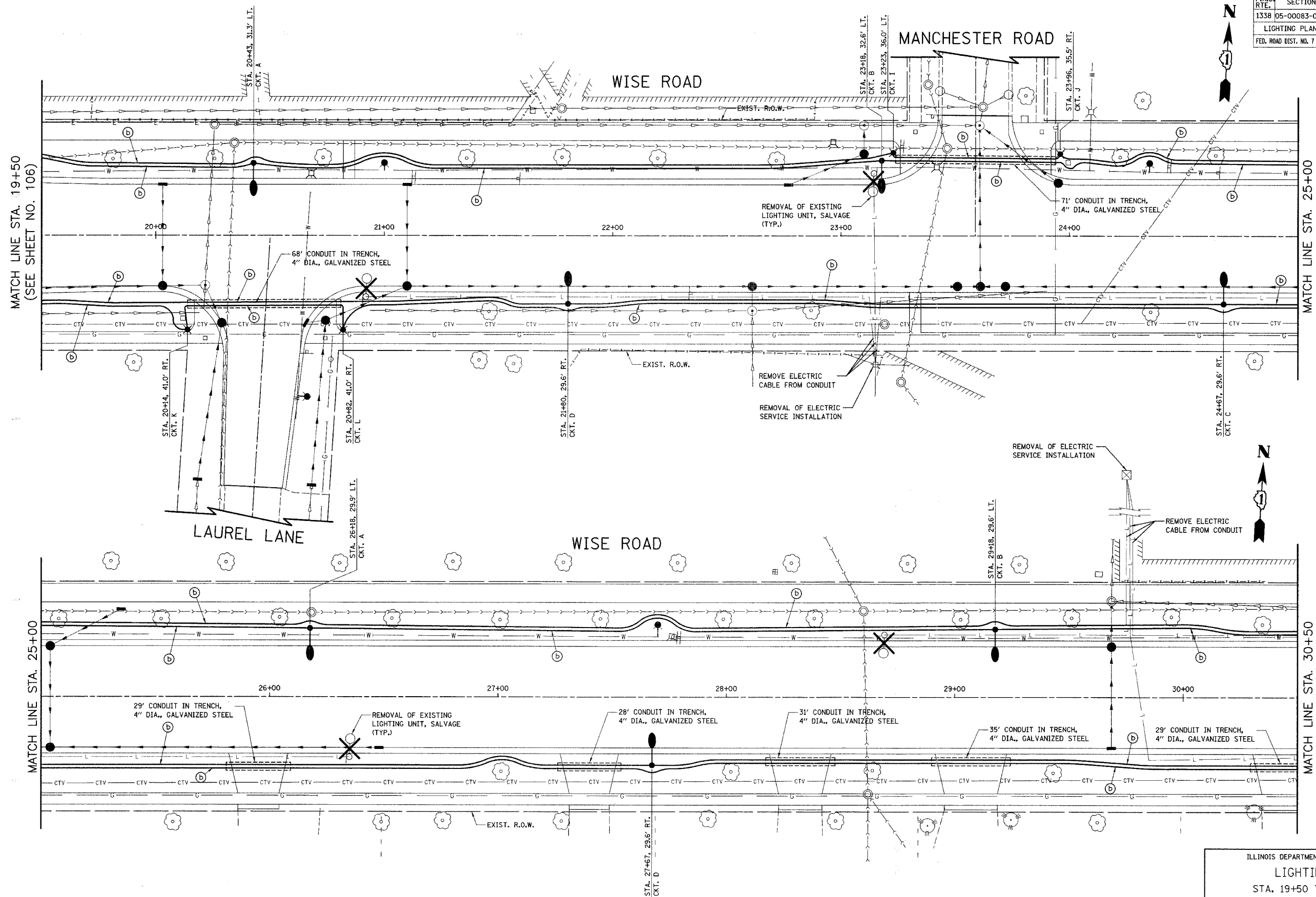
- NOTES:**
1. RELOCATION OF THE EXISTING LIGHTING UNIT MUST BE COMPLETED THE SAME DAY. ALL LIGHTING MUST BE OPERATIONAL THAT SAME EVENING.
 2. THE PROPOSED LIGHT POLE FOUNDATION, 30" DIA., SPECIAL SHALL MATCH EXISTING FOUNDATION WITH EXPOSED FOUNDATION 2' ABOVE FINISHED GRADE.
 3. THE INSTALLATION OF CONDUIT SLEEVES AND UNIT DUCTS SHALL BE SEQUENCED WITH THE REPLACEMENT OF THE PROPOSED PAVEMENT INCLUDING DRIVEWAYS AND SIDEWALKS. IF CONDUIT OR UNIT DUCT IS PUSHED BECAUSE FINAL SURFACE IS IN PLACE, THERE WILL BE NO ADDITIONAL COMPENSATION FOR PUSHING THE CONDUIT OR UNIT DUCT.
 4. MULTI-UNIT DUCT RUNS SHALL BE INSTALLED IN COMMON TRENCH AND BACKFILLED. TRENCH AND BACKFILL WILL NOT BE PAID FOR EACH UNIT DUCT OR CONDUIT, BUT WILL BE PAID FOR THE LENGTH OF THE COMMON TRENCH ONLY.

ILLINOIS DEPARTMENT OF TRANSPORTATION
LIGHTING PLAN
 STA. 11+15 TO STA. 19+50
WISE ROAD

DATE: 9/28/07
 DESIGNED BY: SJC
 CHECKED BY: DNM

SCALE IN FEET

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1338	05-00083-00-FP	COOK	167	107
LIGHTING PLAN - STA. 19+50 TO STA. 30+50				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT M-800315121				

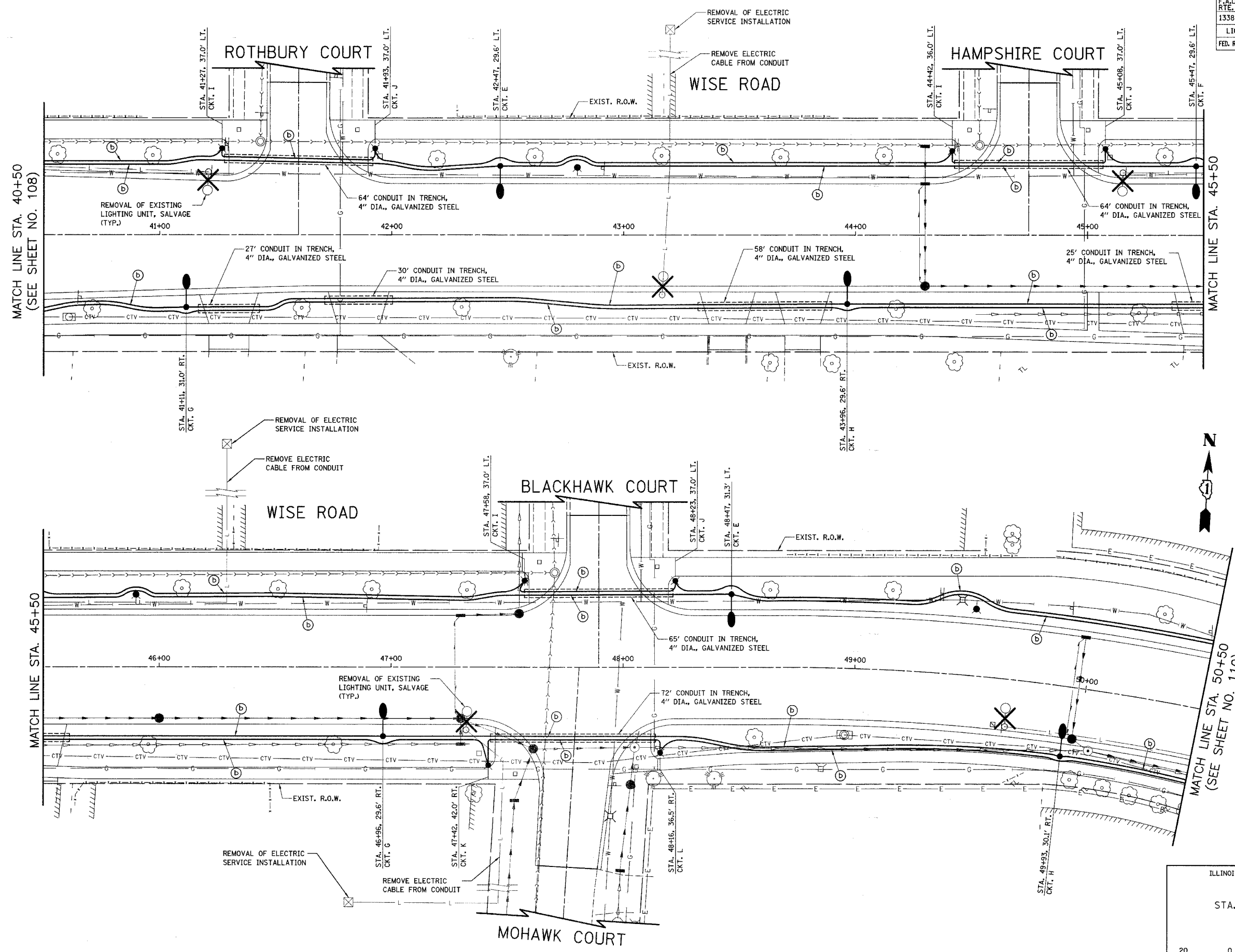


ILLINOIS DEPARTMENT OF TRANSPORTATION
 LIGHTING PLAN
 STA. 19+50 TO STA. 30+50
 WISE ROAD

DATE: 9/28/07
 DESIGNED BY: SJC
 CHECKED BY: DNM

SCALE IN FEET

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1338	05-00083-00-FF	COOK	167	109
LIGHTING PLAN - STA. 40+50 TO STA. 50+50				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT M-8003(512)				



MATCH LINE STA. 40+50
(SEE SHEET NO. 108)

MATCH LINE STA. 45+50

MATCH LINE STA. 45+50

MATCH LINE STA. 50+50
(SEE SHEET NO. 110)

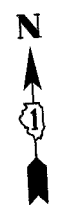
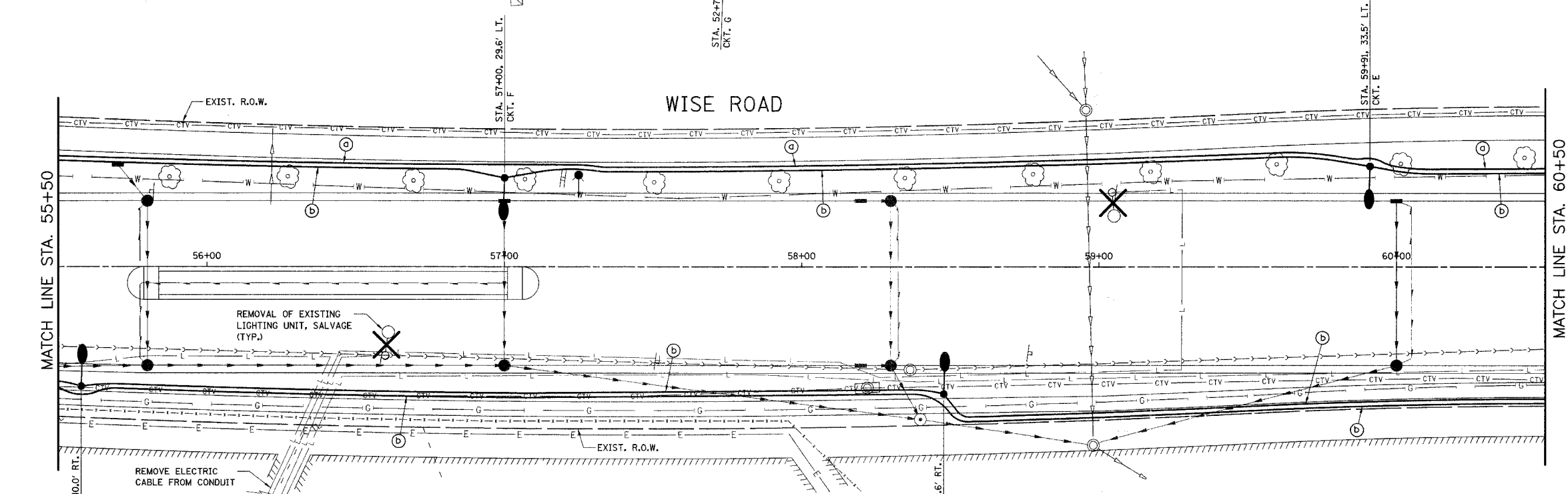
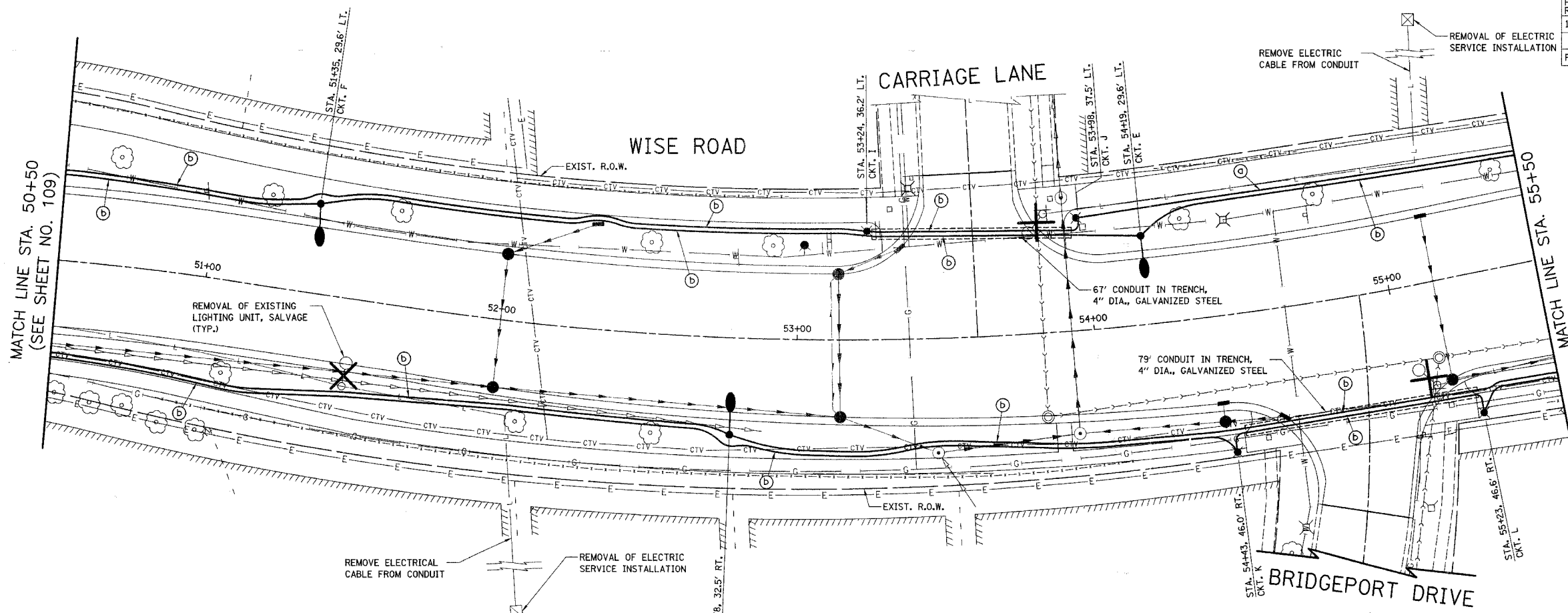
ILLINOIS DEPARTMENT OF TRANSPORTATION
 LIGHTING PLAN
 STA. 40+50 TO STA. 50+50
 WISE ROAD

SCALE IN FEET

DATE: 9/28/07
 DESIGNED BY: SJC
 CHECKED BY: DNM

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1338	05-00083-00-FF	COOK	167	110

LIGHTING PLAN - STA. 50+50 TO STA. 60+50
 FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT M-8003(512)

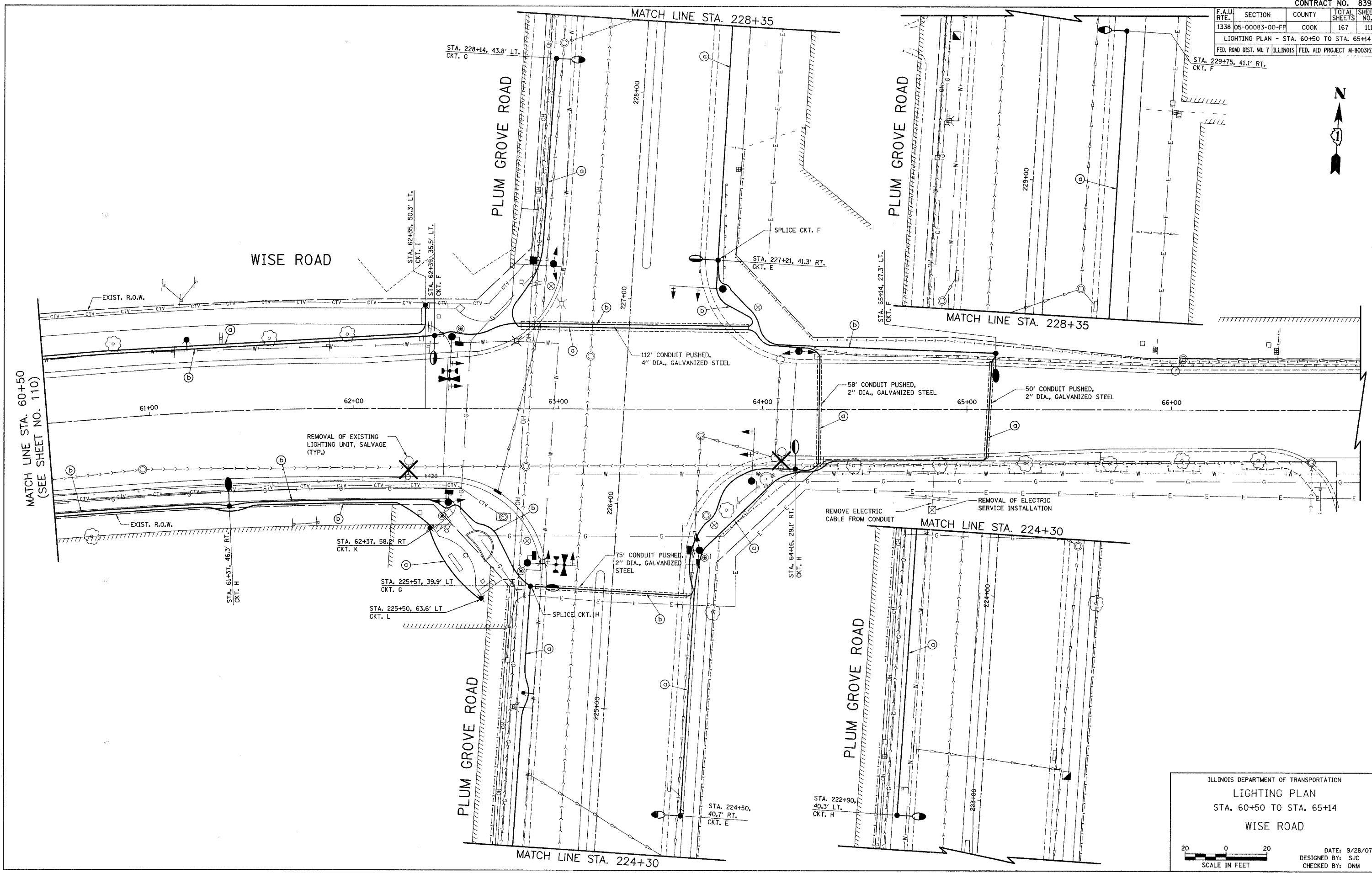


ILLINOIS DEPARTMENT OF TRANSPORTATION
 LIGHTING PLAN
 STA. 50+50 TO STA. 60+50
 WISE ROAD

DATE: 9/28/07
 DESIGNED BY: SJC
 CHECKED BY: DNM

SCALE IN FEET

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1338	05-00083-00-FR	COOK	167	111
LIGHTING PLAN - STA. 60+50 TO STA. 65+14				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT M-8003(S)2				

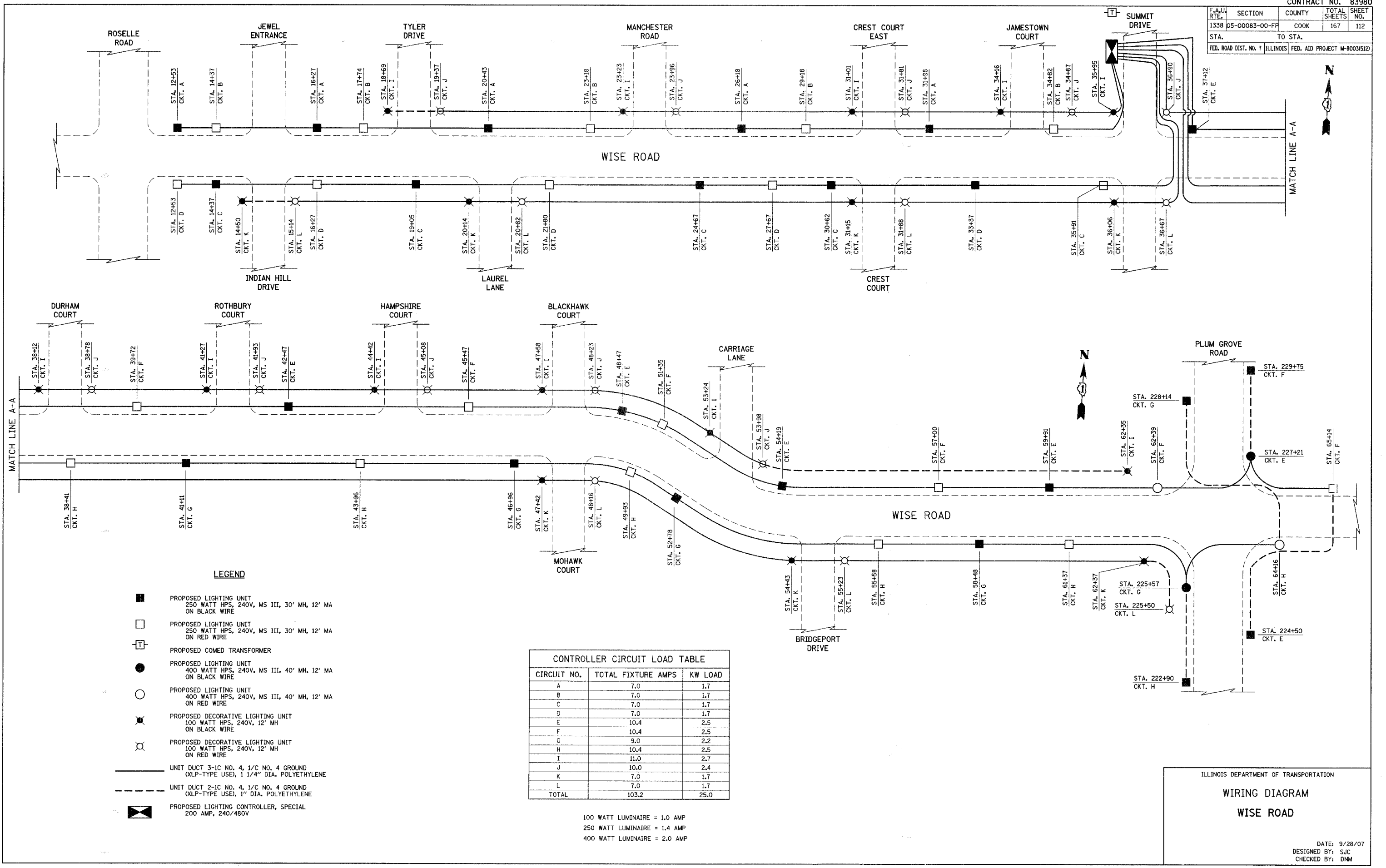


ILLINOIS DEPARTMENT OF TRANSPORTATION
 LIGHTING PLAN
 STA. 60+50 TO STA. 65+14
 WISE ROAD

SCALE IN FEET

DATE: 9/28/07
 DESIGNED BY: SJC
 CHECKED BY: DNM

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1338	05-00083-00-FR	COOK	167	112
STA. 12+53		TO STA. 37+12		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT M-80035121				



LEGEND

- PROPOSED LIGHTING UNIT
250 WATT HPS, 240V, MS III, 30' MH, 12' MA
ON BLACK WIRE
- PROPOSED LIGHTING UNIT
250 WATT HPS, 240V, MS III, 30' MH, 12' MA
ON RED WIRE
- ⊞ PROPOSED COMED TRANSFORMER
- PROPOSED LIGHTING UNIT
400 WATT HPS, 240V, MS III, 40' MH, 12' MA
ON BLACK WIRE
- PROPOSED LIGHTING UNIT
400 WATT HPS, 240V, MS III, 40' MH, 12' MA
ON RED WIRE
- ⊗ PROPOSED DECORATIVE LIGHTING UNIT
100 WATT HPS, 240V, 12' MH
ON BLACK WIRE
- ⊘ PROPOSED DECORATIVE LIGHTING UNIT
100 WATT HPS, 240V, 12' MH
ON RED WIRE
- UNIT DUCT 3-1C NO. 4, 1/4" NO. 4 GROUND
(XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE
- - - UNIT DUCT 2-1C NO. 4, 1/4" NO. 4 GROUND
(XLP-TYPE USE), 1" DIA. POLYETHYLENE
- ⊞ PROPOSED LIGHTING CONTROLLER, SPECIAL
200 AMP, 240/480V

CIRCUIT NO.	TOTAL FIXTURE AMPS	KW LOAD
A	7.0	1.7
B	7.0	1.7
C	7.0	1.7
D	7.0	1.7
E	10.4	2.5
F	10.4	2.5
G	9.0	2.2
H	10.4	2.5
I	11.0	2.7
J	10.0	2.4
K	7.0	1.7
L	7.0	1.7
TOTAL	103.2	25.0

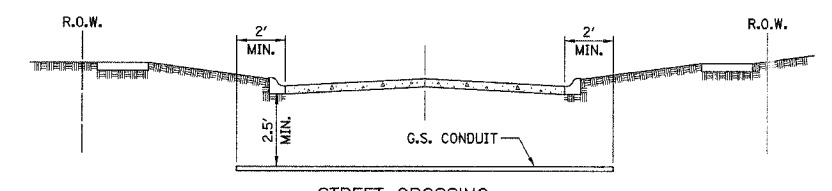
100 WATT LUMINAIRE = 1.0 AMP
 250 WATT LUMINAIRE = 1.4 AMP
 400 WATT LUMINAIRE = 2.0 AMP

ILLINOIS DEPARTMENT OF TRANSPORTATION

WIRING DIAGRAM

WISE ROAD

DATE: 9/28/07
 DESIGNED BY: SJC
 CHECKED BY: DNM

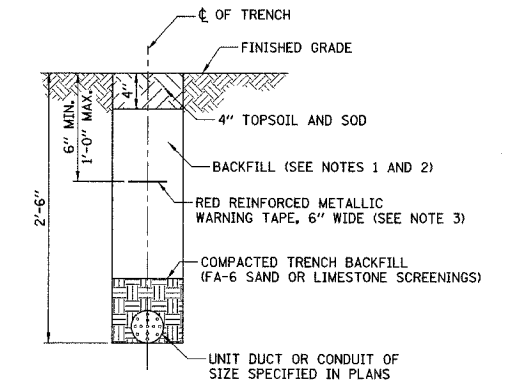


- CONDUIT SHALL BE HEAVY WALL RIGID G.S. CONDUIT.
- CONDUIT SHALL EXTEND A MINIMUM OF 2 FT. BEYOND BACK OF CURB.
- CONDUIT SHALL BE A MINIMUM OF 2.5 FT. BELOW BOTTOM OF CURB.

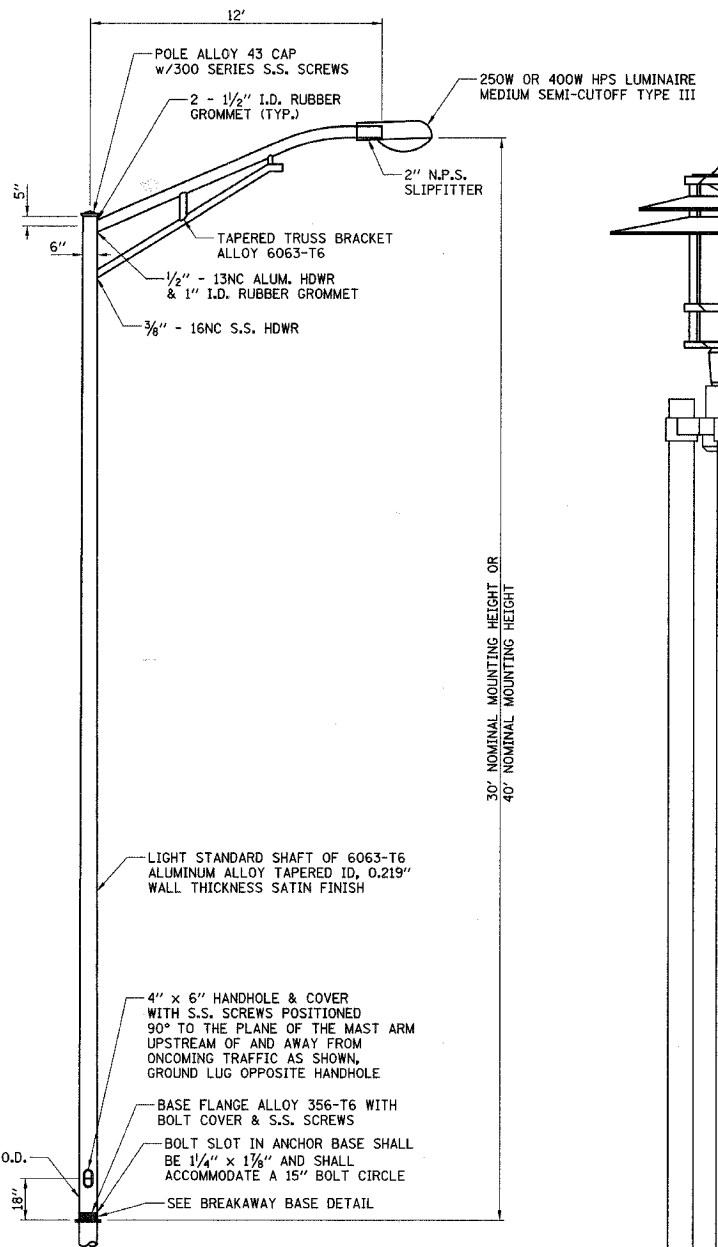
ELECTRICAL CONDUIT UNDER PAVEMENT

NOTES:

- IN GRASS COVERED AREAS, THE BACKFILL MAY BE COMPACTED EARTH.
- TRENCHES WITHIN 2' OF PROPOSED OR EXISTING STREETS, DRIVEWAYS, OR SIDEWALKS WILL BE BACKFILLED WITH COMPACTED FA-6 SAND OR LIMESTONE SCREENINGS.
- WARNING TAPE WILL BE RED WITH BLACK LETTERING TO READ "CAUTION - ELECTRIC LINE BURIED BELOW".
- ALL GRASS COVERED AREAS DISTURBED DURING CONSTRUCTION WILL BE RESTORED WITH 4" OF TOPSOIL AND SOD.

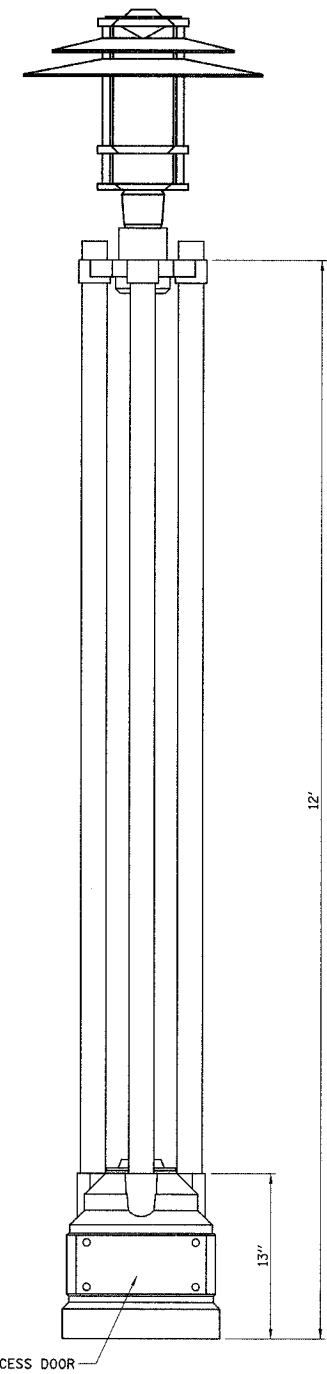


TYPICAL TRENCH CROSS SECTION

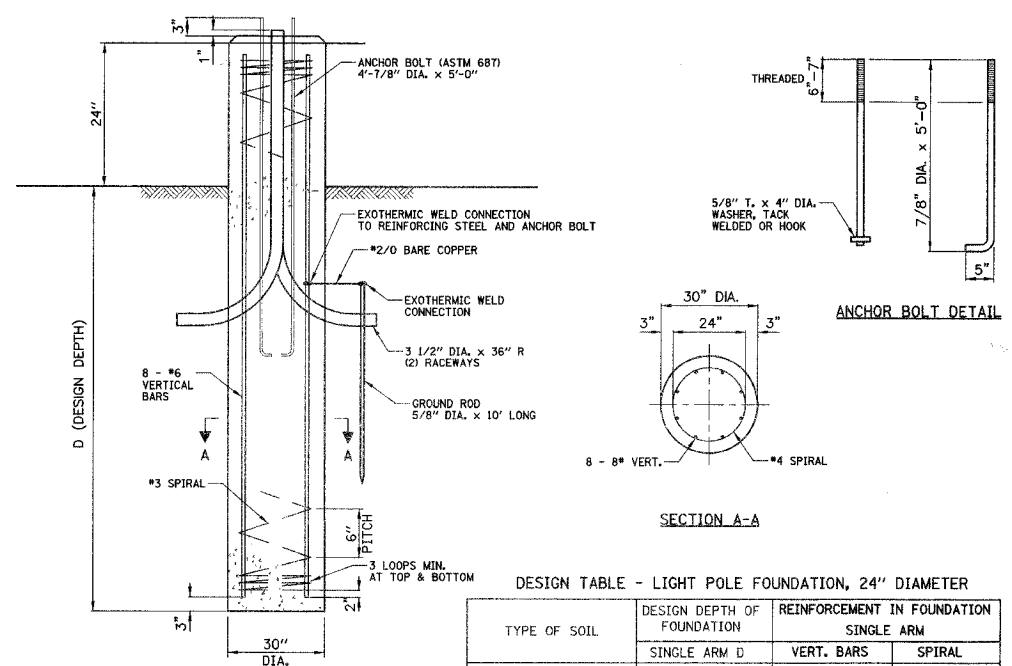


- NOTES:**
- HEAT TREATMENT SHALL BE APPLIED AFTER WELDING.
 - DESIGN SHALL CONFORM WITH 1985 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS FOR 80 MPH WIND LOADINGS WITH A 1.3 GUST LOAD FACTOR.
 - POLES AND ARMS SHALL BE BUILT TO TOLERANCES THAT WILL ALLOW CONSISTENT INTERCHANGIBILITY TO FACILITATE REPLACEMENT OF ARMS AND POLES.
 - A DECAL COMPLYING WITH THE ANSI STANDARD SHALL BE PERMANENTLY ATTACHED TO THE LUMINAIRE AT THE FACTORY. THE DECK SHALL ALLOW A VIEWER AT GROUND LEVEL TO IDENTIFY THE WATTAGE AND LUMINAIRE PHOTOMETRIC DISTRIBUTION.

LIGHTING UNIT
(NOT TO SCALE)



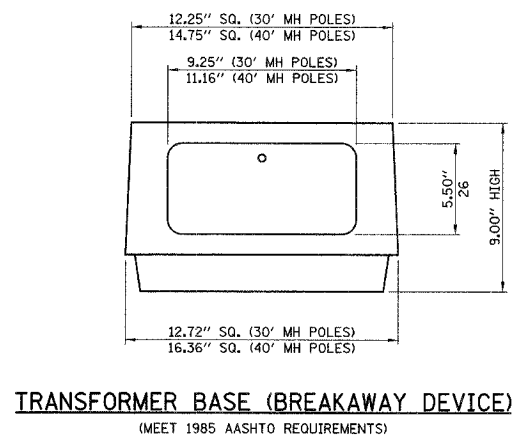
DECORATIVE LIGHTING UNIT



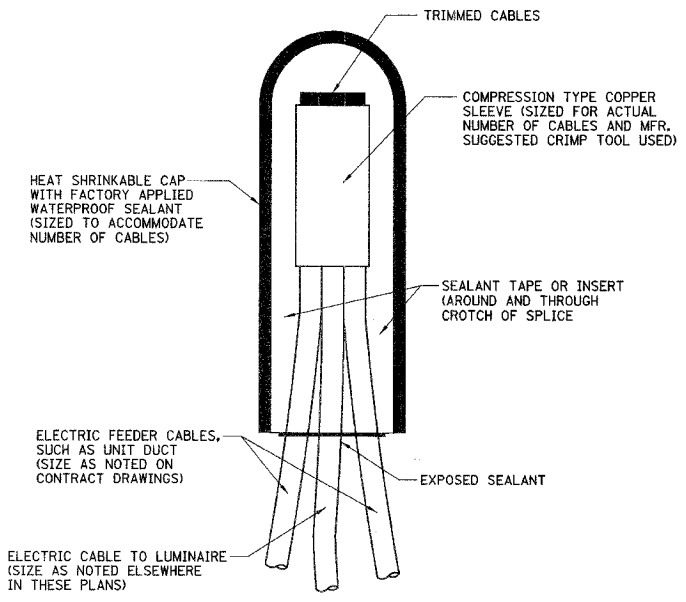
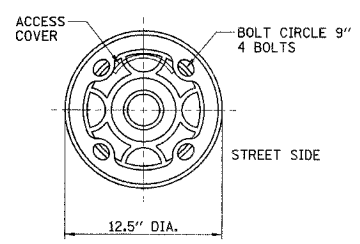
LIGHT POLE FOUNDATION, 30" DIAMETER, SPECIAL

DESIGN TABLE - LIGHT POLE FOUNDATION, 24" DIAMETER

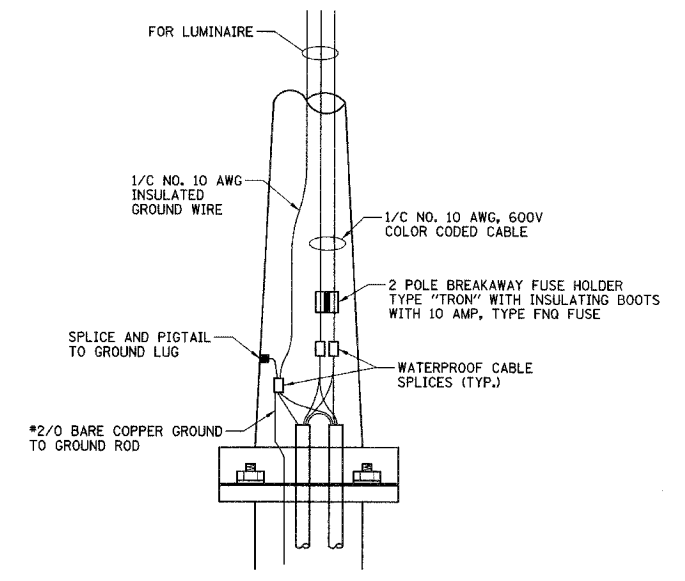
TYPE OF SOIL	DESIGN DEPTH OF FOUNDATION	REINFORCEMENT IN FOUNDATION SINGLE ARM	
		VERT. BARS	SPIRAL
SOFT CLAY	13'-0"	8-#6 x 14'-6"	#3 x 122'
MEDIUM CLAY	9'-6"	8-#6 x 11'-0"	#3 x 90'
STIFF CLAY	7'-0"	8-#6 x 8'-6"	#3 x 66'
LOOSE SAND	10'-0"	8-#6 x 11'-6"	#3 x 94'
MEDIUM SAND	8'-3"	8-#6 x 10'-0"	#3 x 78'
DENSE SAND	7'-9"	8-#6 x 9'-6"	#3 x 73'
ROCK OR SOLIDIFIED SLAG	5'-0"	NONE	NONE



TRANSFORMER BASE (BREAKAWAY DEVICE)
(MEET 1985 AASHTO REQUIREMENTS)



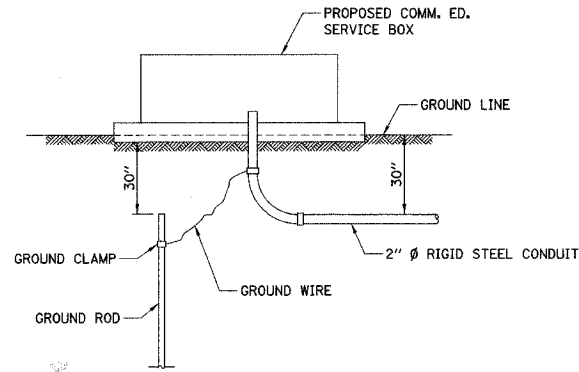
SPlicing ELECTRIC Cables
BASIC MATERIALS AND METHODS



ROADWAY POLE HANDHOLE WIRING DIAGRAM

ILLINOIS DEPARTMENT OF TRANSPORTATION
LIGHTING DETAILS
WISE ROAD

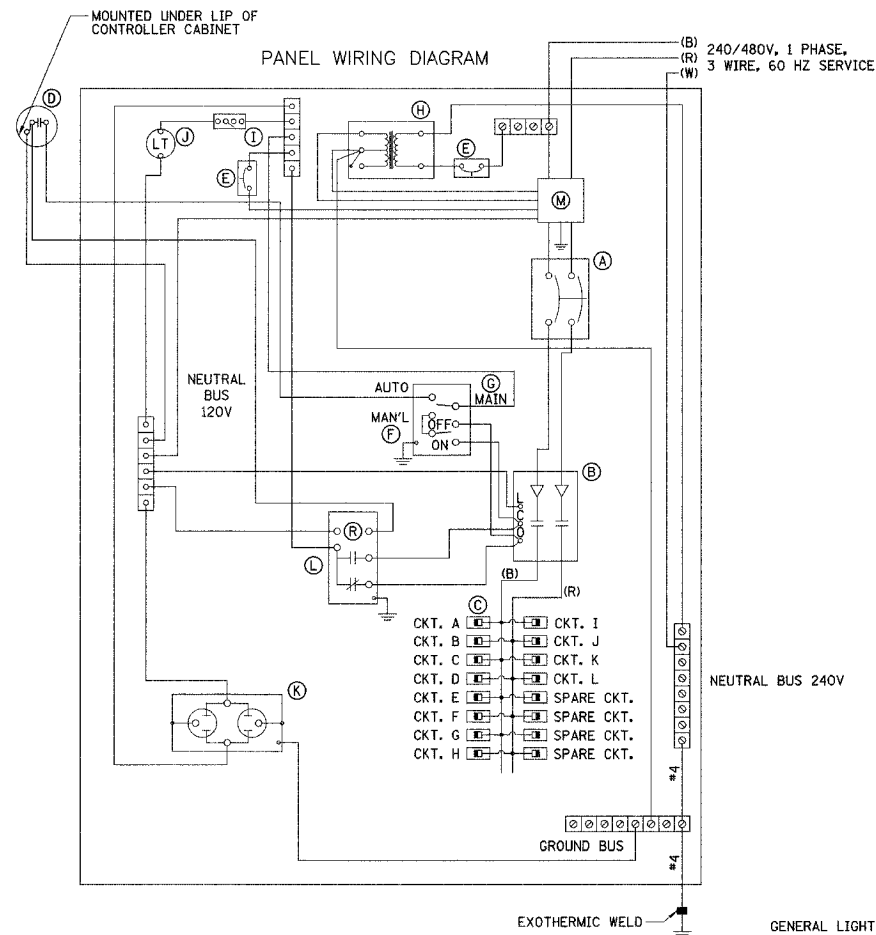
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1338	05-00083-00-FF	COOK	167	115
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT M-8003(512)		



PROPOSED SERVICE INSTALLATION

NOTE: GROUND ROD, GROUND CLAMPS & GROUND WIRE TO BE IN ACCORDANCE WITH COMM. ED. REQUIREMENTS.

ITEM NUMBER	ITEMS	UNIT	QUANTITY
21300010	EXPLORATION TRENCH, SPECIAL	FOOT	125
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1
80400200	ELECTRIC UTILITY SERVICE CONNECTION	L. SUM	1
81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	171
81001000	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	1544
81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	286
81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	377
81603025	UNIT DUCT, 600V, 2-1C NO.4, 1/C NO.4 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	2550
81603085	UNIT DUCT, 600V, 3-1C NO.4, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	20250
81702460	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 3/0	FOOT	150
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	11350
82102250	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	EACH	43
82102400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	4
82500505	LIGHTING CONTROLLER, SPECIAL	EACH	1
83020500	LIGHT POLE, ALUMINUM, TRANSFORMER BASE, 30 FT. M.H., 12 FT. MAST ARM	EACH	39
83022500	LIGHT POLE, ALUMINUM, TRANSFORMER BASE, 40 FT. M.H., 12 FT. MAST ARM	EACH	8
83600215	LIGHT POLE FOUNDATION, 24" DIAMETER, OFFSET	FOOT	120
83600310	LIGHT POLE FOUNDATION, 30" DIAMETER, SPECIAL	FOOT	12
83600400	POLE FOUNDATION, METAL	EACH	72
84200500	REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE	EACH	24
84200700	LIGHTING FOUNDATION REMOVAL	EACH	25
84400105	RELOCATE EXISTING LIGHTING UNIT	EACH	1
84500120	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	14
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	21586
	DECORATIVE LIGHTING UNIT, 100 WATT HPS, 12' M.H.	EACH	35
	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT (MATERIAL ONLY)	EACH	2
	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT (MATERIAL ONLY)	EACH	2
	LIGHT POLE, ALUMINUM, TRANSFORMER BASE, 30 FT. M.H., 12 FT. MAST ARM (MATERIAL ONLY)	EACH	2
	LIGHT POLE, ALUMINUM, TRANSFORMER BASE, 40 FT. M.H., 12 FT. MAST ARM (MATERIAL ONLY)	EACH	2
	DECORATIVE LIGHTING UNIT, 100 WATT HPS, 12' M.H. (MATERIAL ONLY)	EACH	2



LIGHTING CONTROLLER WIRING DIAGRAM

ITEM	QUANT.	DESCRIPTION
(A)	1	200 AMP CIRCUIT BREAKER, MOLDED CASE, THERMAL MAGNETIC, 2-POLE, SINGLE THROW, 600V FRAME, NON-INTERCHANGEABLE TRIP, BOLT ON TYPE; INTERRUPTING CAPACITY OF NOT LESS THAN 25,000 RMS SYMMETRICAL AMPERES AT 600V
(B)	1	200 A., ELECTRICALLY OPERATED AND MECHANICALLY HELD LIGHTING CONTACTOR, 2-POLE, 600 V. WITH 120 V. COIL
(C)	12	240/480 V. 1 PHASE PANEL BOARD WITH 200 A. COPPER MAINS SINGLE POLE, 30 A., 277 V. BOLT ON BRANCH CIRCUIT BREAKERS INTERRUPTING CAPACITY OF NOT LESS THAN 14,000 RMS SYMMETRICAL AMPERES AT 277 V.
(D)	1	PHOTO-ELECTRIC CELL, 120 V, MOUNT UNDER LIP OF CONTROLLER CABINET
(E)	2	THERMAL MAGNETIC, MOLDED CASE CIRCUIT BREAKER, 1 POLE, 15 A., 277 V. BOLT ON TYPE, INTERRUPTING CAPACITY OF NOT LESS THAN 14,000 RMS SYMMETRICAL AMPERES AT 277 V.
(F)	1	CONTROL SWITCH, MOMENTARY CONTACT, SPDT, 15 A., 240 V.
(G)	1	CONTROL SWITCH, TOGGLE TYPE, SPDT, 20 A., 240 V. SPEC. GRADE
(H)	1	240/120V. STEP DOWN CONTROL TRANSFORMER 1500 VA RATED
(I)	1	MICRO SWITCH (MOUNTED WITH ACTUATOR TO SWITCH WHEN DOOR IS OPEN)
(J)	1	60 WATT LIGHT FIXTURE VAPORTIGHT WITH GLOBE, GUARD AND MOUNTING BOX
(K)	1	120 VOLT, 15 A. GFCI RECEPTACLE, SPECIFICATION GRADE IN NEMA 5-15R WEATHERPROOF BOX WITH FLAP-TYPE COVER
(L)	1	POWER RELAY WITH CONTACTS RATED FOR CONTACTOR INRUSH CURRENT - 120 V COIL
(M)	1	SURGE ARRESTOR, 5 WIRE EDCO "4803" OR EQUAL

GENERAL LIGHTING NOTES:

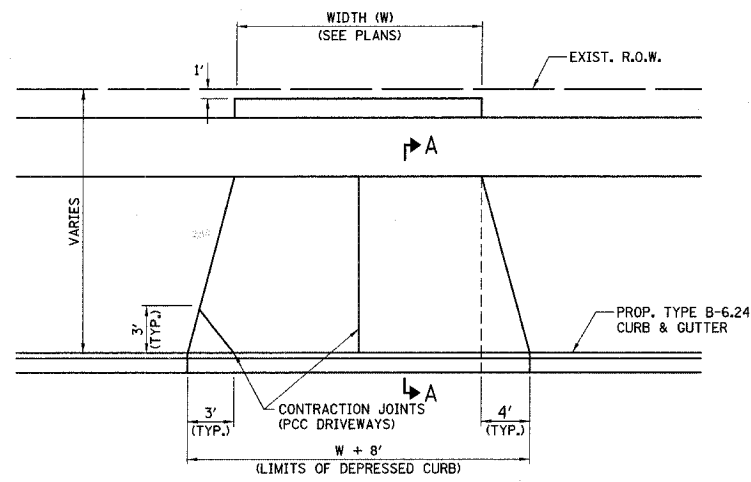
- CARE IS TO BE TAKEN AS NOT TO DAMAGE ANY OF THE EXISTING TRAFFIC SIGNAL CONDUITS, DETECTORS AND EQUIPMENT. IF ANY OF THE TRAFFIC SIGNAL CONDUIT AND/OR EQUIPMENT IS DAMAGED, THE CONTRACTOR SHALL REPAIR AND/OR REPLACE THE CONDUIT AND/OR EQUIPMENT AT NO COST TO THE COUNTY.
- THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE REQUIREMENT FOR BURIED WARNING TAPE, SPECIFIED AS PART OF "TRENCH AND BACKFILL FOR ELECTRICAL WORK". THE INSTALLATION OF THE TAPE SHALL BE INSPECTED AND APPROVED BY THE RESIDENT ENGINEER PRIOR TO BACKFILLING OR DURING PLOWING OPERATIONS, AS APPLICABLE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ESTABLISHMENT OF FINISHED GRADE. THE RESIDENT ENGINEER MAY ASSIST THE CONTRACTOR, AS APPLICABLE, BUT THE RESPONSIBILITY FOR COORDINATING THE FINISHED GRADE ELEVATION WITH THE TOP OF THE FOUNDATION HEIGHTS AND THE LIGHT SHALL REMAIN WITH THE CONTRACTOR.
- NO POLES SHALL BE ERECTED UNTIL THE RESPECTIVE FOUNDATIONS HAVE CURED, AS APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE REQUIREMENTS FOR WIRE MARKERS AND SHALL TAG ALL WIRE MARKERS AND WIRE ACCORDINGLY.
- EQUIPMENT GROUND CONDUCTORS SHALL BE SPLICED AND BONDED AT EACH LIGHT POLE OR OTHER PIECE OF EQUIPMENT.
- CONDUIT AND UNIT DUCT MUST BE POSITIONED IN THE FIELD TO AVOID CONFLICT WITH TREES, BUSHES, DRAINS AND OTHER UTILITIES AND LANDSCAPING.
- SPLICES ARE NOT ALLOWED IN THE HANDHOLE.
- ALL DISTURBED AREA WHERE RESTORATION IS NOT COVERED BY APPLICABLE SECTIONS OF THE SPECIAL PROVISIONS MUST BE RESTORED TO THE SATISFACTION OF THE ENGINEER. THE WORK MUST BE CONSIDERED INCIDENTAL TO THE CONTRACT. SEPARATE PAYMENT WILL NOT BE MADE.
- THE EXACT LOCATIONS OF ALL UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY COMPONENTS OF THE LIGHTING SYSTEM. FOR THE LOCATIONS OF THE UTILITIES, CALL J.U.L.I.E. TOLL FREE AT 1-800-892-0123. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE EXISTING TRAFFIC SIGNAL CABLES AND CONDUITS.

ILLINOIS DEPARTMENT OF TRANSPORTATION

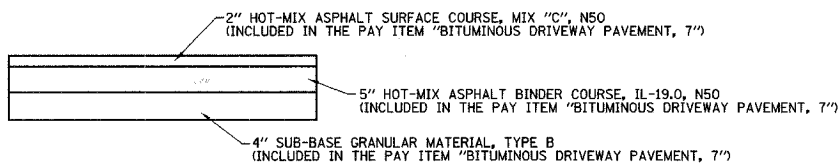
LIGHTING DETAILS
WISE ROAD

DATE: 9/28/07
DESIGNED BY: SJC
CHECKED BY: JRV

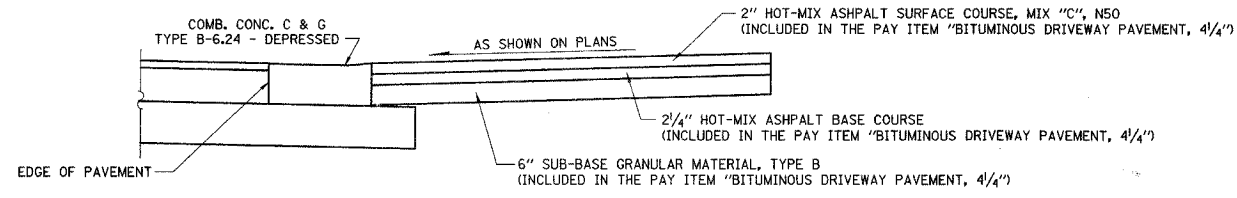
F.A.U. RITE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1338	05-00083-00-FF	COOK	167	116
DETAILS				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT M-8003(5)2				



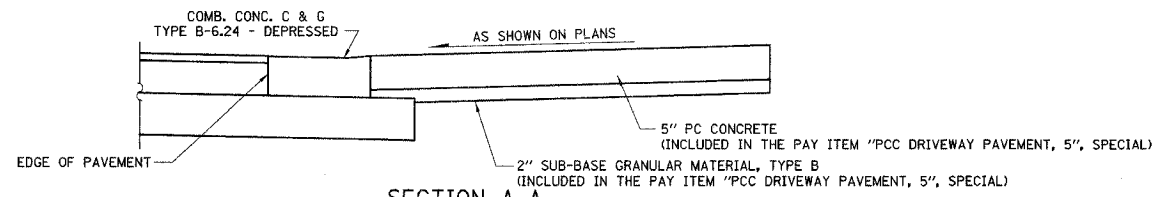
STRAIGHT TAPER PLAN VIEW



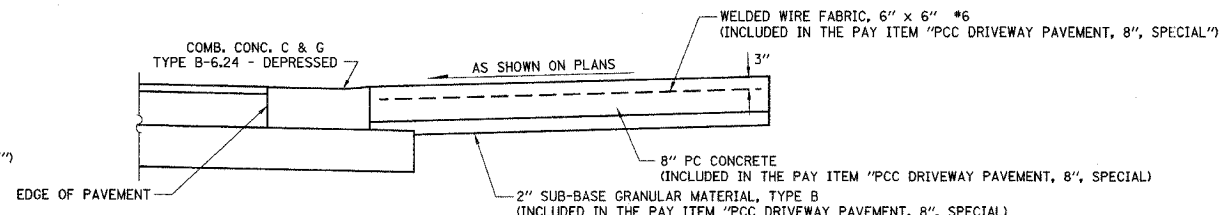
HOT-MIX ASPHALT COMMERCIAL DRIVEWAY DETAIL
NOT TO SCALE



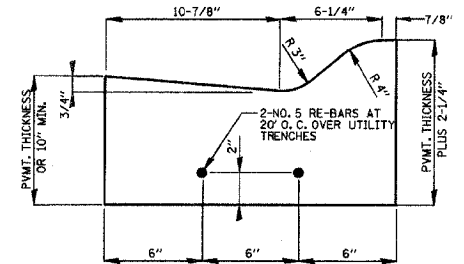
SECTION A-A
HOT-MIX ASPHALT RESIDENTIAL DRIVEWAY DETAIL
NOT TO SCALE



SECTION A-A
PCC RESIDENTIAL DRIVEWAY DETAIL
NOT TO SCALE

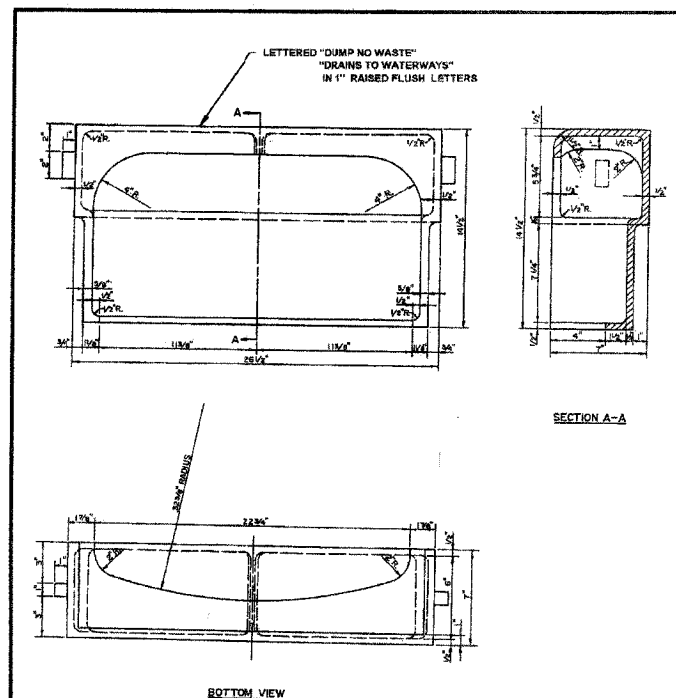


SECTION A-A
PCC COMMERCIAL DRIVEWAY DETAIL
NOT TO SCALE



COMBINATION CONCRETE CURB AND GUTTER, TYPE M-3.12
NOT TO SCALE

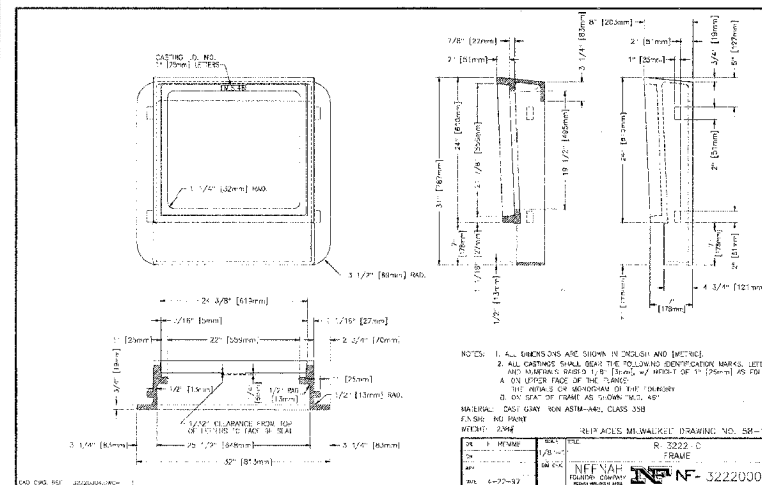
NOTE: THE COST OF THE REBARS, WHEN REQUIRED, SHALL BE INCLUDED IN THE PAY ITEM "COMBINATION CONCRETE CURB AND GUTTER, TYPE M-3.12"



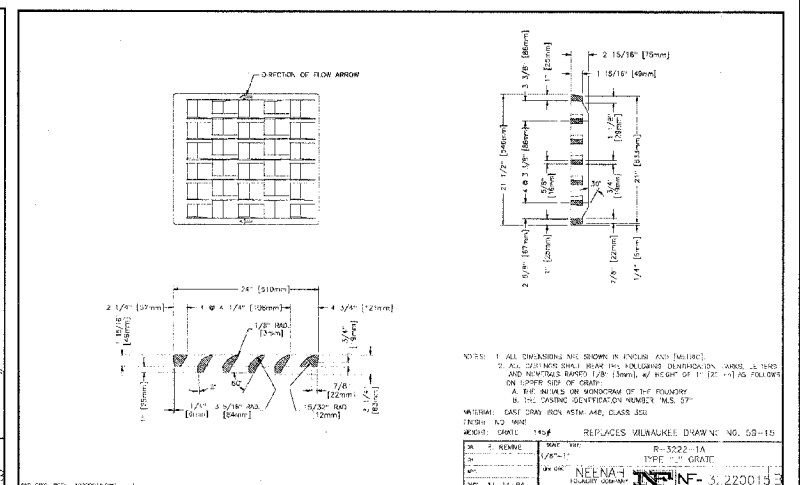
EQUIPMENT: D3222008 A3222008
REGATE: 2 NEW COREPRINT,
NEW COREBOX

MATERIAL: CAST GRAY IRON ASTM A-48, CLASS 35B

DR.	CSM	SCALE	TITLE	3222-L
DR.				CURB BOX
APP.		REV. DR.	NEENAH FOUNDRY COMPANY	NF- 3222 T04
DATE	5-8-2007			



SPECIAL FRAME AND GRATE
NOT TO SCALE



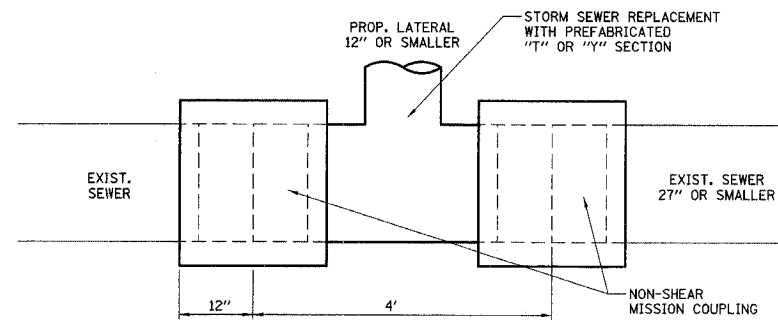
ILLINOIS DEPARTMENT OF TRANSPORTATION

DETAILS

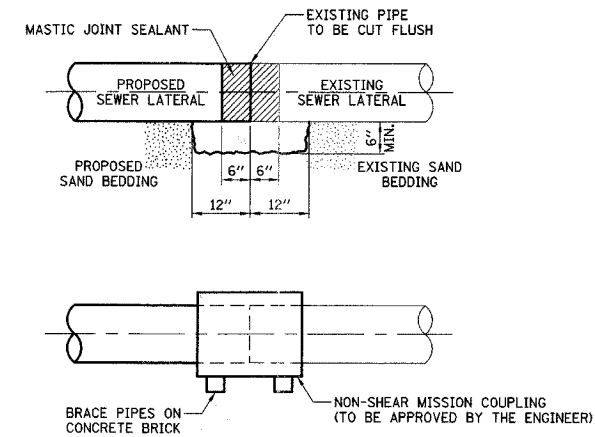
DATE: 9/28/07
DESIGNED BY: DJK
CHECKED BY: JRY

NOT TO SCALE

F.A.D. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1338	05-00083-00-FF	COOK	167	117
DETAILS				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT M-8003(S)2				



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



CONSTRUCTION SEQUENCE

1. CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
2. APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" OF EACH PIPE.
3. BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12" x 6" DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
4. INSTALL MISSION COUPLING.
5. WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
6. SUPPORT EACH PIPE END WITH CONCRETE BRICK.

DETAIL B
NON-SHEAR MISSION COUPLING
NOT TO SCALE

NOTES

MATERIAL

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

CONSTRUCTION METHODS

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

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

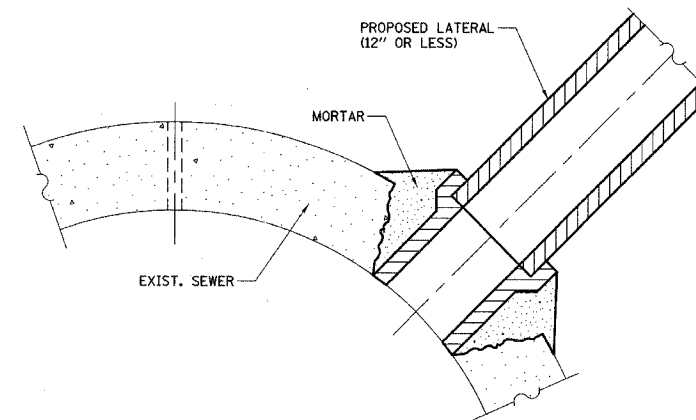
GENERAL

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

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

REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE STORM SEWER BEING CONSTRUCTED.

THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE STORM SEWERS BEING CONSTRUCTED.



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

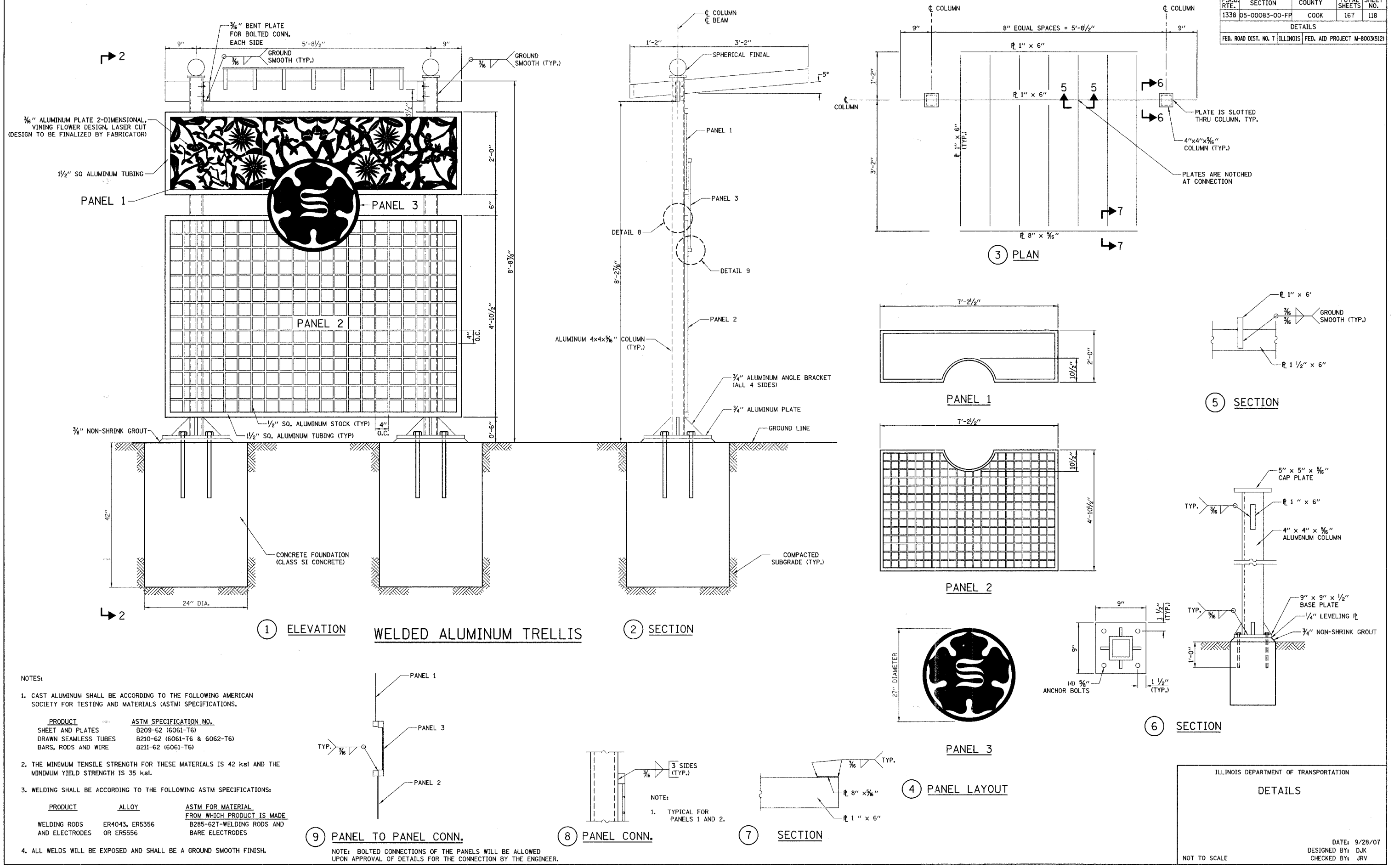
ILLINOIS DEPARTMENT OF TRANSPORTATION

DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER

DATE: 9/28/07
DESIGNED BY: DJK
CHECKED BY: JRV

NOT TO SCALE

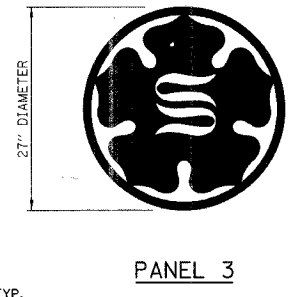
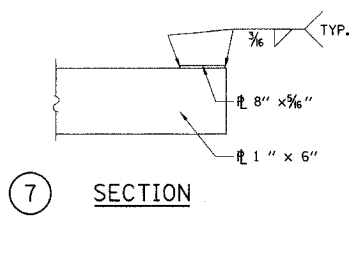
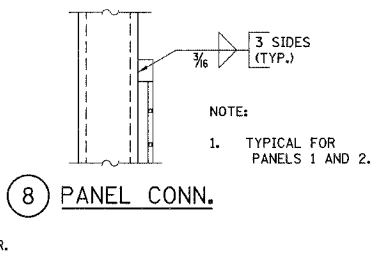
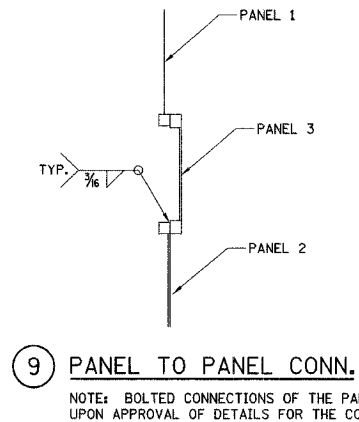
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1338	05-00083-00-FP	COOK	167	118
DETAILS				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT M-80034512				



- NOTES:
- CAST ALUMINUM SHALL BE ACCORDING TO THE FOLLOWING AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) SPECIFICATIONS.

PRODUCT	ASTM SPECIFICATION NO.
SHEET AND PLATES	B209-62 (6061-T6)
DRAWN SEAMLESS TUBES	B210-62 (6061-T6 & 6062-T6)
BARS, RODS AND WIRE	B211-62 (6061-T6)
 - THE MINIMUM TENSILE STRENGTH FOR THESE MATERIALS IS 42 ksi AND THE MINIMUM YIELD STRENGTH IS 35 ksi.
 - WELDING SHALL BE ACCORDING TO THE FOLLOWING ASTM SPECIFICATIONS:

PRODUCT	ALLOY	ASTM FOR MATERIAL FROM WHICH PRODUCT IS MADE
WELDING RODS AND ELECTRODES	ER4043, ER5356 OR ER5556	B285-62T-WELDING RODS AND BARE ELECTRODES
 - ALL WELDS WILL BE EXPOSED AND SHALL BE A GROUND SMOOTH FINISH.

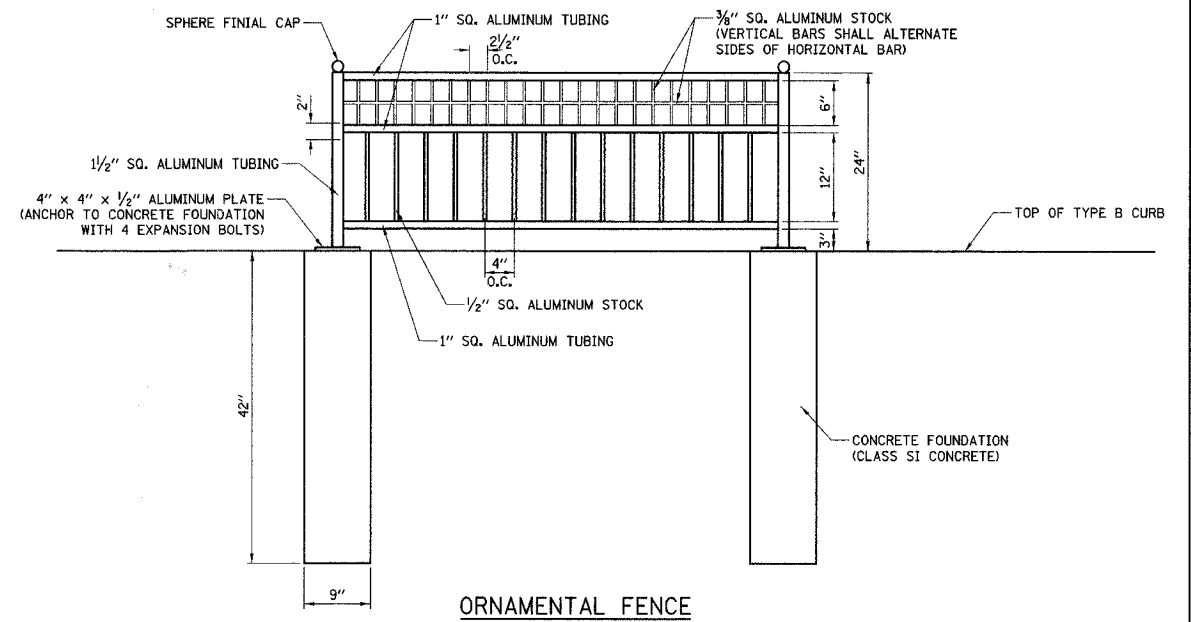
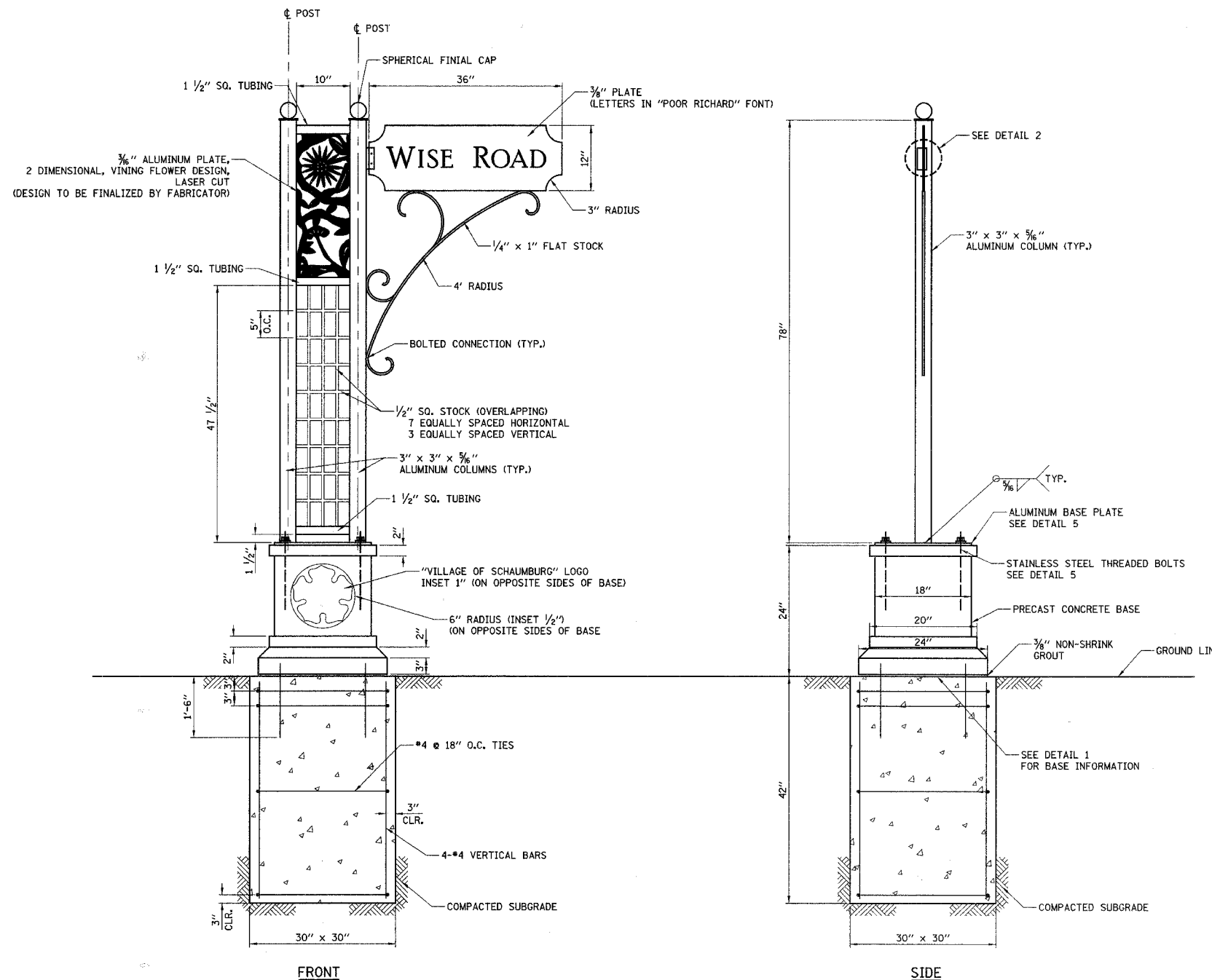


ILLINOIS DEPARTMENT OF TRANSPORTATION
DETAILS

DATE: 9/28/07
DESIGNED BY: DJK
CHECKED BY: JRV

NOT TO SCALE

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1338	05-00083-00-FP	COOK	167	119
DETAILS				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT M-8003(512)				



ORNAMENTAL FENCE

NOTES:

- CAST ALUMINUM SHALL BE ACCORDING TO THE FOLLOWING AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) SPECIFICATIONS.

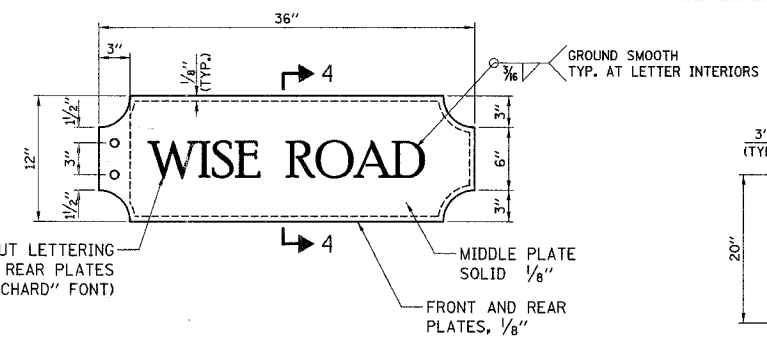
PRODUCT	ASTM SPECIFICATION NO.
DRAWN SEAMLESS TUBES	B210-62 (6061-T6 & 6062-T6)
BAR, RODS AND WIRE	B211-62 (6061-T6)

- THE MINIMUM TENSILE STRENGTH FOR THESE MATERIALS IS 42 ksi AND THE MINIMUM YIELD STRENGTH IS 35 ksi.

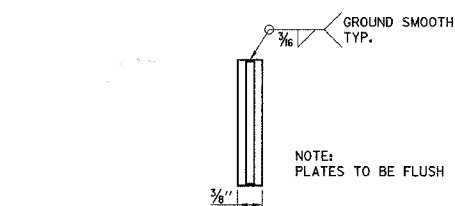
- WELDING SHALL BE ACCORDING TO THE FOLLOWING ASTM SPECIFICATIONS:

PRODUCT	ALLOY	ASTM FOR MATERIAL FROM WHICH PRODUCT IS MADE
WELDING RODS AND ELECTRODES	ER4043, ER5356 OR ER5556	B285-62T-WELDING RODS AND BARE ELECTRODES

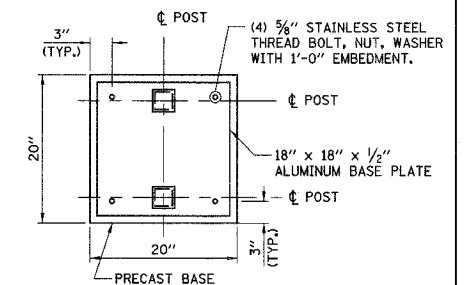
- ALL WELDS WILL BE EXPOSED AND A SHALL BE GROUND SMOOTH FINISH.



3 SIGN DETAIL

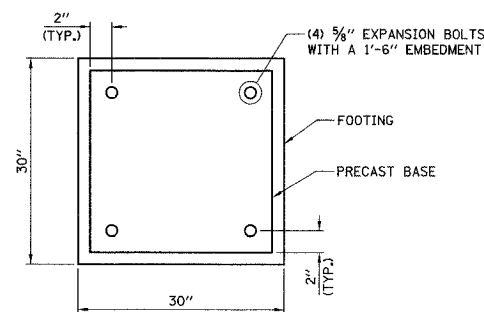


4 SECTION THRU SIGN PLATES

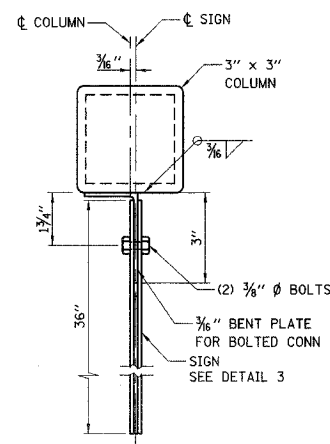


5 COLUMN BASE PLATE

VERTICAL IDENTIFIER



1 PRECAST BASE



2 CONNECTION

NOTES:

- CAST ALUMINUM SHALL BE ACCORDING TO THE FOLLOWING AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) SPECIFICATIONS.

PRODUCT	ASTM SPECIFICATION NO.
SHEET AND PLATES	B209-62 (6061-T6)
DRAWN SEAMLESS TUBES	B210-62 (6061-T6 & 6062-T6)
BAR, RODS AND WIRE	B211-62 (6061-T6)

- THE MINIMUM TENSILE STRENGTH FOR THESE MATERIALS IS 42 ksi AND THE MINIMUM YIELD STRENGTH IS 35 ksi.

- WELDING SHALL BE ACCORDING TO THE FOLLOWING ASTM SPECIFICATIONS:

PRODUCT	ALLOY	ASTM FOR MATERIAL FROM WHICH PRODUCT IS MADE
WELDING RODS AND ELECTRODES	ER4043, ER5356 OR ER5556	B285-62T-WELDING RODS AND BARE ELECTRODES

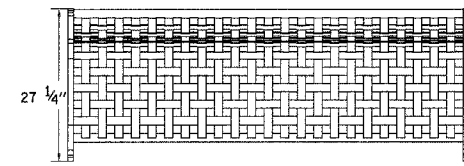
- ALL WELDS WILL BE EXPOSED AND A SHALL BE GROUND SMOOTH FINISH.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DETAILS

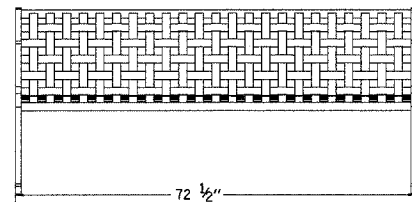
DATE: 9/28/07
DESIGNED BY: DJK
CHECKED BY: JRV

NOT TO SCALE

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1338	05-00083-00-FP	COOK	167	120
DETAILS				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT M-8003(512)				

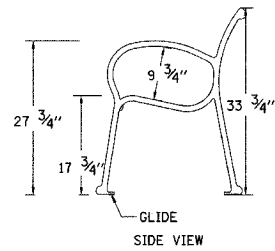


TOP VIEW



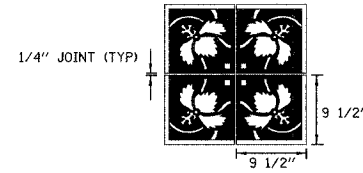
FRONT VIEW

METAL BENCH, 6' SECTION



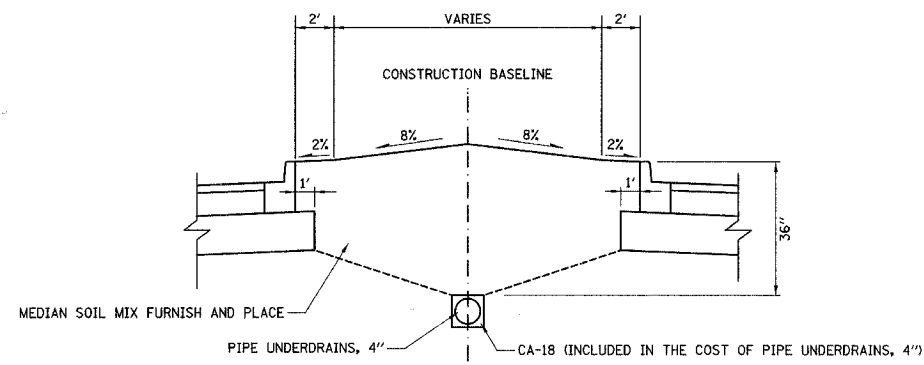
GLIDE SIDE VIEW

MANUFACTURER - LANDSCAPE FORMS
STYLE - SCARBOROUGH, BACKED, WOVEN METAL, 6' LONG



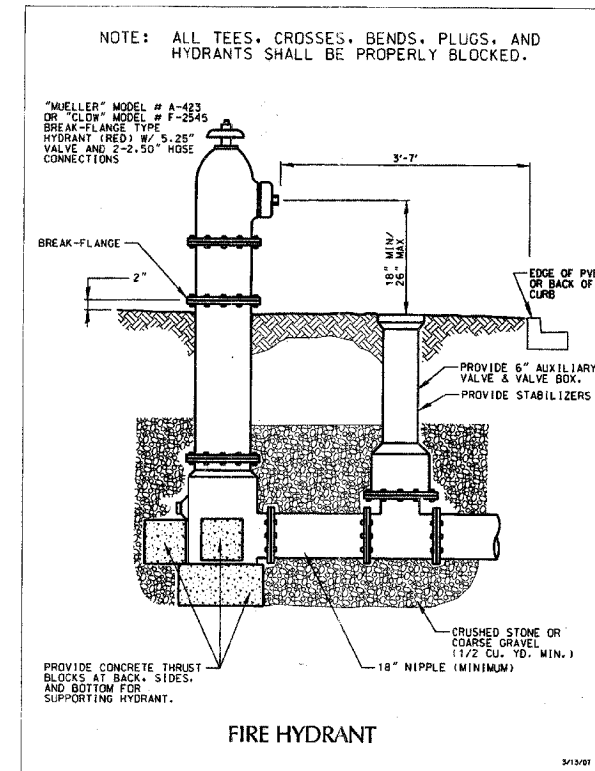
PAVER BLOCKS SPECIAL

NOTE: BLOCKS SHALL BE 2 3/4" THICK



LANDSCAPE MEDIAN DETAIL

NOT TO SCALE



FIRE HYDRANT

FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX

ILLINOIS DEPARTMENT OF TRANSPORTATION

DETAILS

DATE: 9/28/07
DESIGNED BY: DJK
CHECKED BY: JRV

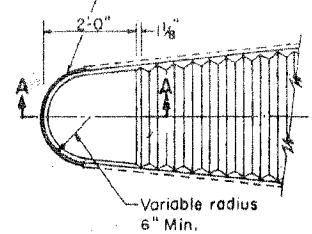
NOT TO SCALE

County	Plan	Sheet	Total
Highway	Year	No.	Of
		121	167

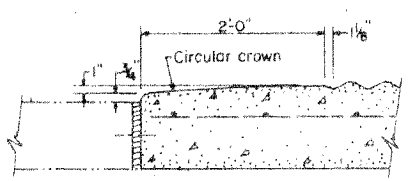
05-00083-00-FP

STANDARD DESIGN CONCRETE MEDIANS

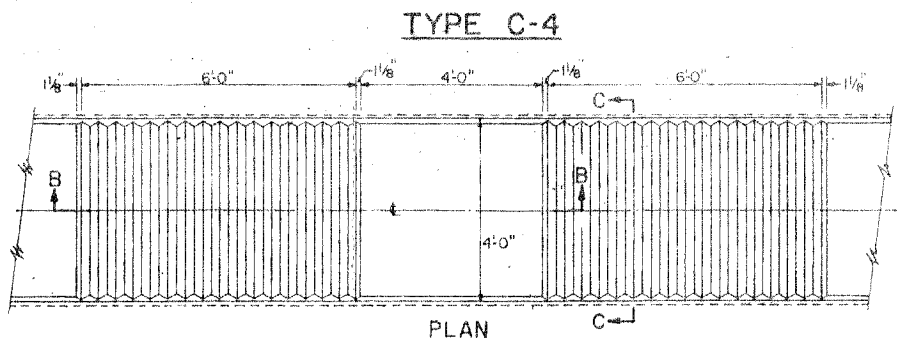
3/4" Preformed expansion joint filler between rigid pavement and median edge at end radius



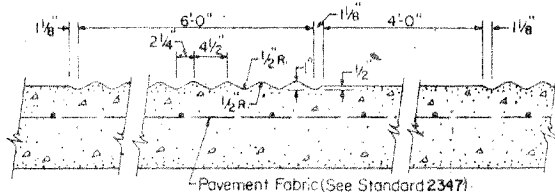
NOTE: OMIT TAPERED SECTION UNLESS SHOWN ON PLANS



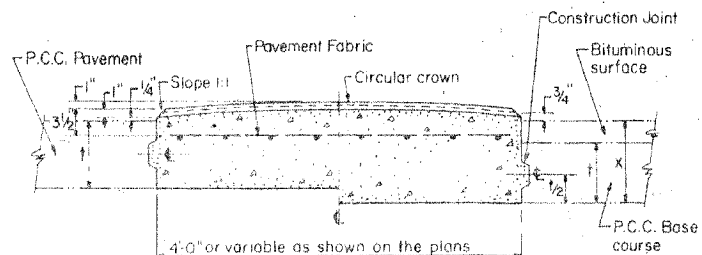
SECTION A-A



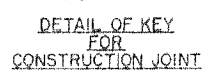
TYPE C-4
PLAN



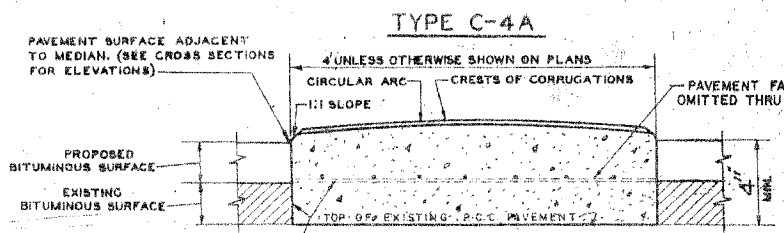
SECTION B-B



SECTION C-C
HALF SECTION FOR P.C.C. PAVEMENT
HALF SECTION FOR P.C.C. BASE COURSE

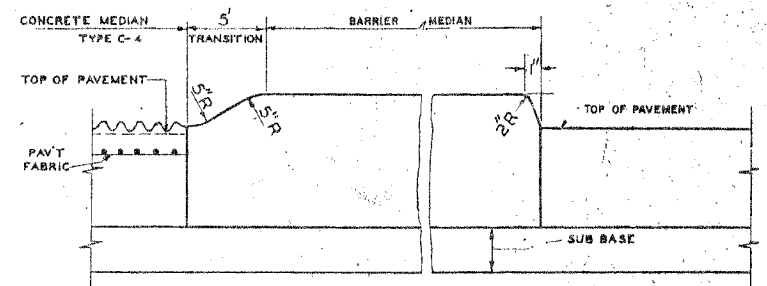


DETAIL OF KEY FOR CONSTRUCTION JOINT

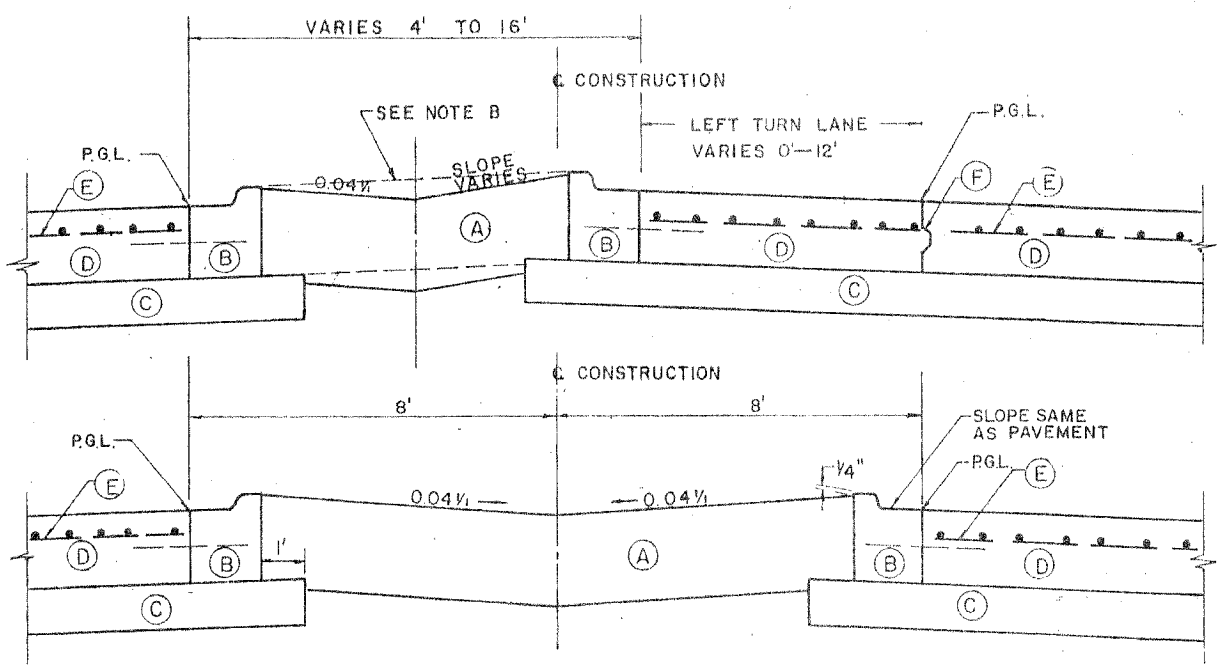


EXISTING BITUMINOUS SURFACE TO BE REMOVED TO A WIDTH SUFFICIENT TO ENABLE CONSTRUCTION OF THE MEDIAN, OR AS SHOWN ON THE PLANS AND PAID FOR AT THE CONTRACT UNIT PRICE BID PER SQUARE YARD FOR BITUMINOUS SURFACE REMOVAL AND PER LINEAL FOOT FOR CUTTING BITUMINOUS SURFACE. THE SURFACE CONFIGURATION FOR TYPE C-4A MEDIAN IS THE SAME AS TYPE C-4 MEDIAN.

NOTE:
IN LIEU OF CONTRACTION JOINTS A 3/4" PREFORMED EXPANSION JOINT FILLER SHALL BE INSTALLED AT LOCATIONS COINCIDENT WITH TRANSVERSE JOINTS IN THE EXISTING PAVEMENT. JOINTS SHALL BE INSTALLED IN MEDIAN AT 20 FT. INTERVALS OR AS DIRECTED BY THE ENGINEER.



LONGITUDINAL SECTION SHOWING TRANSITION BETWEEN TYPE C-4 AND BARRIER MEDIAN
TRANSITIONAL AREA IS TO BE PAID FOR AS THE TYPE OF BARRIER MEDIAN SHOWN ON THE PLANS

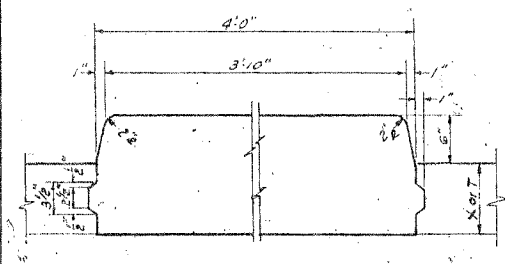


NOTE B: AT LOCATION NOTED ON PLANS THE MEDIAN SURFACE SHALL BE A STRAIGHT LINE FROM TOP OF CURB TO TOP OF CURB.

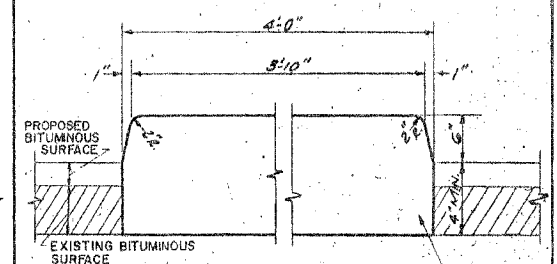
- (A) BITUMINOUS SHOULDERS (12 INCH)
- (B) COMBINATION CONCRETE CURB AND GUTTER, M-212
- (C) SUB-BASE GRANULAR MATERIAL, TYPE B (6 INCH)
- (D) PORTLAND CEMENT CONCRETE PAVEMENT (10 INCH)
- (E) PAVEMENT FABRIC
- (F) CONSTRUCTION JOINT (FOR TYPE SEE PLANS)

TYPE M-7

TYPE 6



TYPE 6 A



EXISTING BITUMINOUS SURFACE TO BE REMOVED TO A WIDTH SUFFICIENT TO ENABLE CONSTRUCTION OF THE MEDIAN, OR AS SHOWN ON THE PLANS AND PAID FOR AT THE CONTRACT UNIT PRICE BID PER SQUARE YARD FOR BITUMINOUS SURFACE REMOVAL AND PER LINEAL FOOT FOR CUTTING BITUMINOUS SURFACE.

GENERAL NOTES

Dimension "t" is equal to the adjacent pavement edge thickness or base course edge thickness.
Dimension "x" is equal to the adjacent base course edge thickness plus the bituminous surface edge thickness.

The cost of furnishing and placing pavement fabric in the median shall be included in the unit price bid per square foot for CONCRETE MEDIAN, TYPE C-4 and TYPE C-4A respectively.

EXPANSION JOINTS - Shall be of a type similar to that in the adjacent pavement except dowel bars will not be required.
CONTRACTION JOINTS - Shall be constructed and sealed in the same manner as the joints in the adjacent pavement, or shall be constructed with a 3/4" preformed expansion joint filler conforming to the full cross-section of the median. Dowel Bars to be omitted in median joints.

The earth work shall be considered as being incidental to Earth Excavation.

Plan views of medians shown are typical. Median layout and radii shall be as shown on the plans.
Medians may vary in width as required on the plans, but regardless of any width variation, shall be measured and paid for at the contract unit price per square foot for concrete median of the type specified.

The vertical edge dimension for Type C-4 Median shall be 10" when constructed adjacent to flexible pavement. Also, keyway shall be omitted and contraction joints shall be installed at 20' intervals.

Contraction and expansion joints shall be installed in Type C-4 median in prolongation with joints in adjacent P.C.C. Pavement. For median adjacent to bituminous surfaces, contraction joints shall be installed at 20' intervals.

Rev. 7-16-79 W.J.W.
Revised 5-27-70 - L.O.S.
Revised 7-8-81 W.J.W.

NOT TO SCALE

COUNTY OF COCK
DEPARTMENT OF HIGHWAYS
GEORGE W. DUNNE
PRESIDENT

DETAILS OF CONCRETE MEDIANS

COMPUTED: M.K.
DRAWN: M.K.
CHECKED: W.J.W.

APPROVED: [Signature]
[Signature]
[Signature]

(Full Size)

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ISSUED 12-12-62
PASSED May 29 1975 [Signature] Engineer of Design Operations	REVISIONS
APPROVED May 29 1975 [Signature] Engineer of Design	W.F. 8-27-68
	W.F. 1-15-69
	W.F. 10-1-69
	D.W. 9-4-73
	D.W. 10-31-74
	D.W. 5-29-75
	D.W. 7-15-77
	Redrawn 8-27-68

County	Fiscal	Sheet	Total
Highway	Year	No.	Sheets
		122	167

Section 05-00083-00-FP

NOTES (SUPPLEMENTAL TO I.D.O.T. STANDARDS)

STANDARDS 606101, 606201 AND 606006 - TYPE A GUTTER, TYPE B GUTTER AND OUTLET FOR CURB AND GUTTER

TIE BARS SHALL BE NO. 15 (NO. 5) SPACED AT 750 mm (30 IN.) CENTERS.

CONCRETE INLETS, ENTRANCES AND OUTLETS FOR GUTTER OR COMBINATION CURB AND GUTTER SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER METER (FOOT) FOR THE PARTICULAR TYPE OF GUTTER OR COMBINATION CURB AND GUTTER SPECIFIED.

STANDARD 606001 - CURB AND COMBINATION CURB AND GUTTER

VARIABLE CURB TABLE

TYPE	A	B	C	D	R
B-V.30 (B-V.12)	300 (12)	50 (2)	125 (5)	VARIABLE	25 (1)
B-V.45 (B-V.18)	450 (18)	50 (2)	125 (5)	VARIABLE	25 (1)
B-V.60 (B-V.24)	600 (24)	50 (2)	125 (5)	VARIABLE	25 (1)

VARIABLE CURB AND GUTTER SHALL BE CONSTRUCTED WITH THE HEIGHT OF CURB VARYING BETWEEN 100 mm (4 IN.) AND 225 mm (9 IN.), AS REQUIRED. THE TOP OF CURB ELEVATION SHALL BE DETERMINED BY THE ENGINEER.

LONGITUDINAL JOINT TIE BARS SHALL BE NO. 15 (NO. 5) SPACED AT 750 mm (30 IN.) CENTERS. AT THE CONTRACTOR'S OPTION, TIE BARS MAY BE BENT AT RIGHT ANGLES AGAINST THE EDGE OF THE CONCRETE PAVEMENT AND STRAIGHTENED INTO FINAL POSITION BEFORE THE CURB AND GUTTER IS PLACED, SUBJECT TO THE APPROVAL OF THE ENGINEER.

WHERE EXISTING CURB AND GUTTER IS TO BE REMOVED AND REPLACED ADJACENT TO EXISTING CONCRETE PAVEMENT REMAINING IN PLACE, THE CONTRACTOR SHALL PERFORM THE REMOVAL SO THAT THE EXISTING TIE BARS CAN BE USED IN TYING THE NEW CURB AND GUTTER TO THE EXISTING PAVEMENT. ANY TIE BARS WHICH ARE DAMAGED OR MISSING SHALL BE REPLACED WITH NO. 20 (NO. 6) TIE BARS, 600 mm (24 INCHES) LONG, EMBEDDED 200 mm (8 INCHES) AT 600 mm (24 INCH) CENTERS IN ACCORDANCE WITH THE ARTICLE 428.10 (B) OF THE STANDARD SPECIFICATIONS. THE COST OF FURNISHING AND INSTALLING THE TIE BARS SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE FOR THE PARTICULAR TYPE OF CURB AND GUTTER SPECIFIED.

THE DEPTH OF THE CURB OR COMBINATION CURB AND GUTTER SHALL BE EQUIVALENT TO THE DEPTH OF THE ADJACENT PAVEMENT, REGARDLESS OF PAVEMENT COMPOSITION.

STANDARD 353001 - PCC BASE WITH HOT MIX ASPHALT BINDER AND SURFACE COURSE

TIE BARS SHALL BE NO. 15 (NO. 5) SPACED AT 750 mm (30 IN.) CENTERS.

STANDARD 420001 - PAVEMENT JOINTS

JOINTS AND REINFORCEMENT BARS SHALL BE PLACED IN ACCORDANCE WITH THE P.C. CONCRETE PAVEMENT DETAIL SHOWN ON THIS SHEET.

LONGITUDINAL CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAIL SHOWN ON THIS SHEET. AT THE CONTRACTOR'S OPTION, TIE BARS MAY BE BENT AT RIGHT ANGLES AGAINST THE TYPE C METAL JOINT AND STRAIGHTENED INTO FINAL POSITION BEFORE THE ADJACENT CONCRETE PAVEMENT POUR, SUBJECT TO THE APPROVAL OF THE ENGINEER.

TIE BARS SHALL BE NO. 15 (NO. 5).

TRANSVERSE SAWED CONTRACTION JOINTS, TRANSVERSE CONSTRUCTION JOINTS AND JOINTS AT CONTRACT TERMINALS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS SHOWN ON THIS SHEET.

STANDARD 420701 - PAVEMENT FABRIC

PAVEMENT FABRIC DEPTH SHALL BE IN ACCORDANCE WITH THE DETAIL SHOWN ON THIS SHEET.

DISREGARD ALL DETAILS AND NOTES REGARDING PAVEMENTS BLOCK-OUTS, AND COMPLY WITH STANDARD 420111-P.C.C. PAVEMENT ROUNDOUTS AT ALL DRAINAGE/UTILITY STRUCTURE LOCATIONS.

STANDARD 442101 - CLASS B PATCHES

IF A SAWED LONGITUDINAL JOINT IS REQUIRED, TIE BARS SHALL BE NO. 15 (NO. 5) SPACED AT 750 mm (30 IN.) CENTERS.

STANDARD 442201 - CLASS C AND D PATCHES

CLASS C PATCHES SHALL BE TIED TO THE EXISTING PAVEMENT ALONG ALL SIDES OF THE PATCH WITH NO. 20 (NO. 6) TIE BARS, 600 mm (24 INCHES) LONG, EMBEDDED 200 mm (8 INCHES) AT 600 mm (24 INCH) CENTERS IN ACCORDANCE WITH ARTICLE 428.10 (B) OF THE STANDARD SPECIFICATIONS, MINIMUM 3 BARS ON EACH SIDE. THE COST OF FURNISHING AND INSTALLING THE TIE BARS SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE FOR CLASS C PATCHES.

ALL GUARDRAIL AND TRAFFIC BARRIER TERMINAL STANDARDS

HOT MIX ASPHALT SHOULDERS 150 mm (6 IN.), SHALL BE PLACED UNDERNEATH THE ENTIRE LENGTH OF ALL PROPOSED GUARDRAIL AND TRAFFIC BARRIER TERMINALS AND EXTEND 0.6 m (2 FT.) BEYOND THE TERMINAL ENDS. THE WIDTH OF THE SHOULDER SHALL EXTEND ONE FOOT BEYOND EITHER SIDE OF THE POSTS FOR THE GUARDRAIL AND TRAFFIC BARRIER TERMINALS AND AS SHOWN ON THE PLANS. EARTH EXCAVATION NECESSARY FOR PLACEMENT OF THE SHOULDER SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE FOR HOT MIX ASPHALT SHOULDER, IL-19.0, N30 (6 IN.).

REVISED: AUG. 2007 (HOT MIX ASPHALT SHOULDERS)
 REVISED: OCT. 2004 (REMOVED SAWED CONTRACT JT. DETAILS)
 REVISED: SEPTEMBER 2004 (20 FT. SAWED CONTRACT, JT.)

REVISED: JUNE 2004 (SAWED CONTRACT, JT.)
 REVISED: DEC. 2002
 REVISED: NOVEMBER 2000

COUNTY OF COOK

DEPARTMENT OF HIGHWAYS

DETAILS AND NOTES FOR CONSTRUCTION OF PAVEMENT AND PAVEMENT APPURTENANCES (SUPPLEMENTAL TO I.D.O.T. STANDARDS)

COMPUTED	S.M.V.
DRAWN	V.M.
CHECKED	D.J.S.

NOTE:

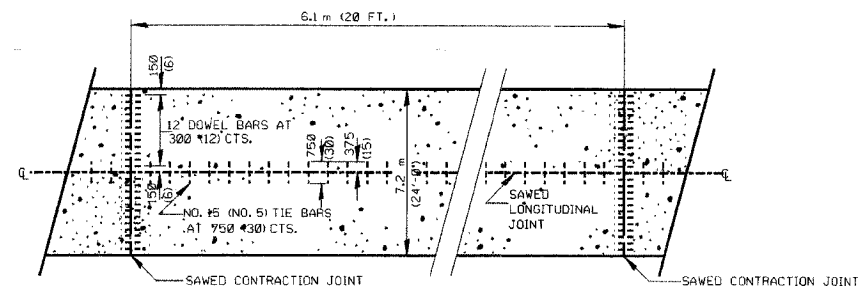
THE INTENT OF THIS STANDARD IS TO REFLECT ADDITIONS OR VARIATIONS TO I.D.O.T. STANDARDS CONTAINED IN THE PLANS. THIS STANDARD SHALL GOVERN OVER THE I.D.O.T. STANDARDS.

DETAIL NOTES

SEE I.D.O.T. STANDARDS FOR DETAILS NOT SHOWN.
 ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.

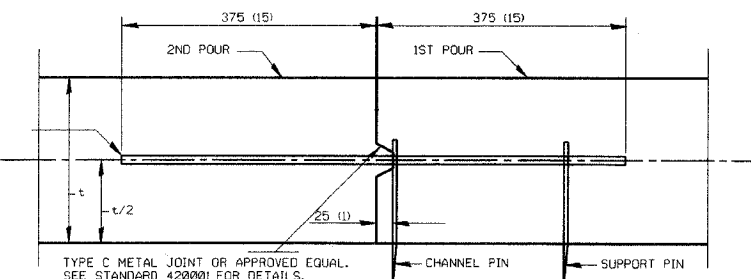
ALL TIE BAR SIZES ARE METRIC (STANDARD)

t = PAVEMENT THICKNESS



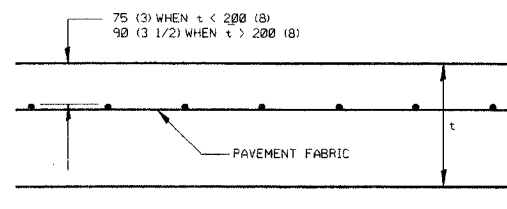
P.C. CONCRETE PAVEMENT DETAIL

SEE I.D.O.T. STANDARDS 420001 AND 420701 FOR ADDITIONAL DETAILS



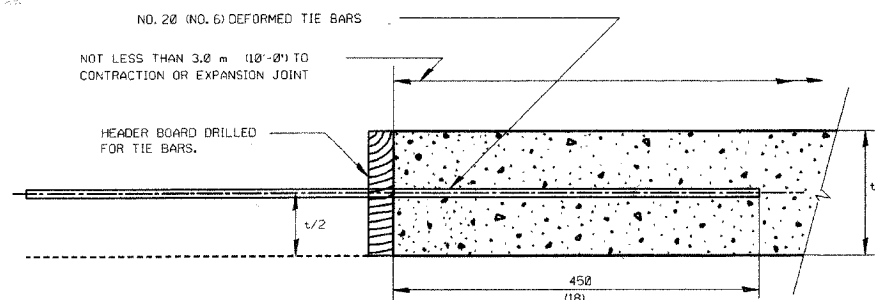
LONGITUDINAL CONSTRUCTION JOINT DETAIL

TYPE A - INSTALL TIE BARS
 TYPE B - OMIT TIE BARS

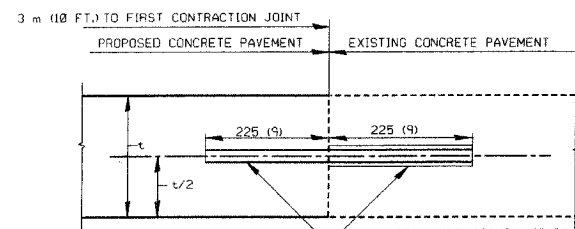


PAVEMENT FABRIC DETAIL

SEE I.D.O.T. STANDARD 420701 FOR ADDITIONAL DETAILS



TRANSVERSE CONSTRUCTION JOINT DETAIL



DOWEL BARS - SIZE AND SPACING SHALL BE THE SAME AS THAT USED AT SAWED CONTRACTION JOINTS.

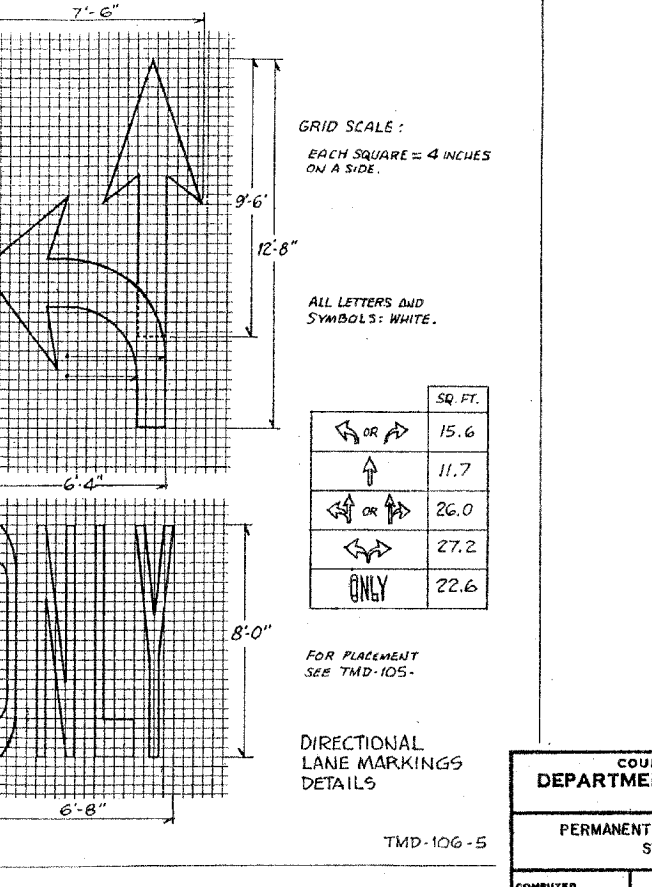
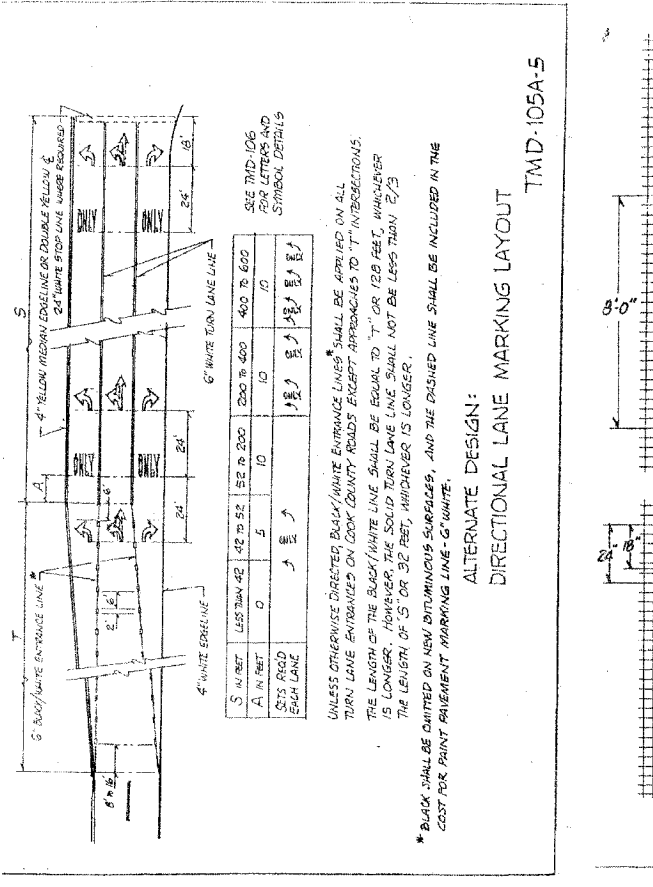
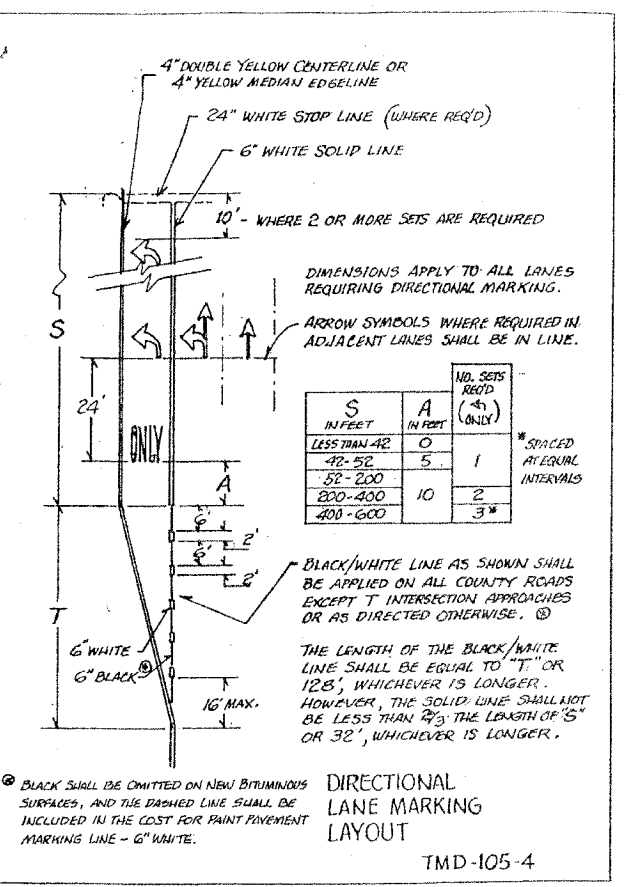
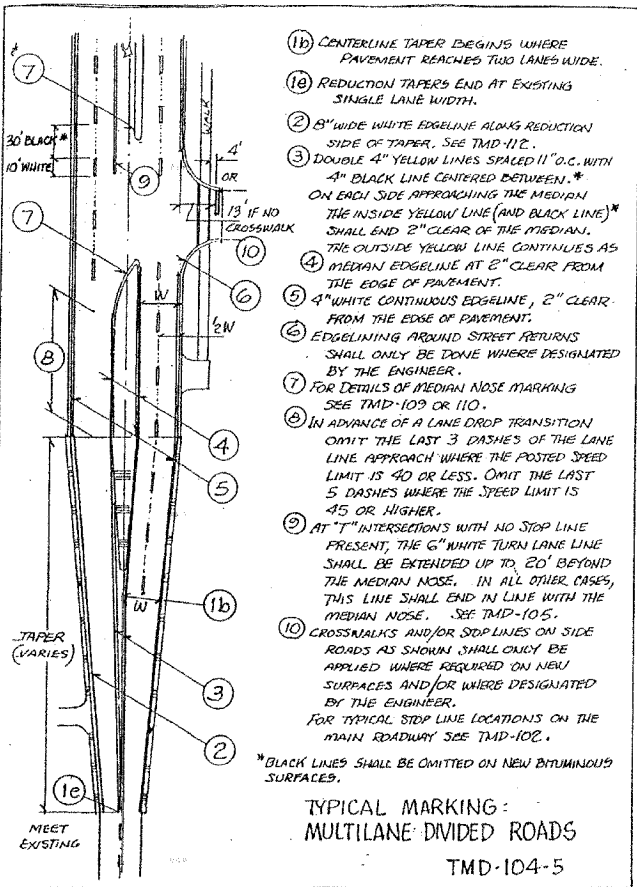
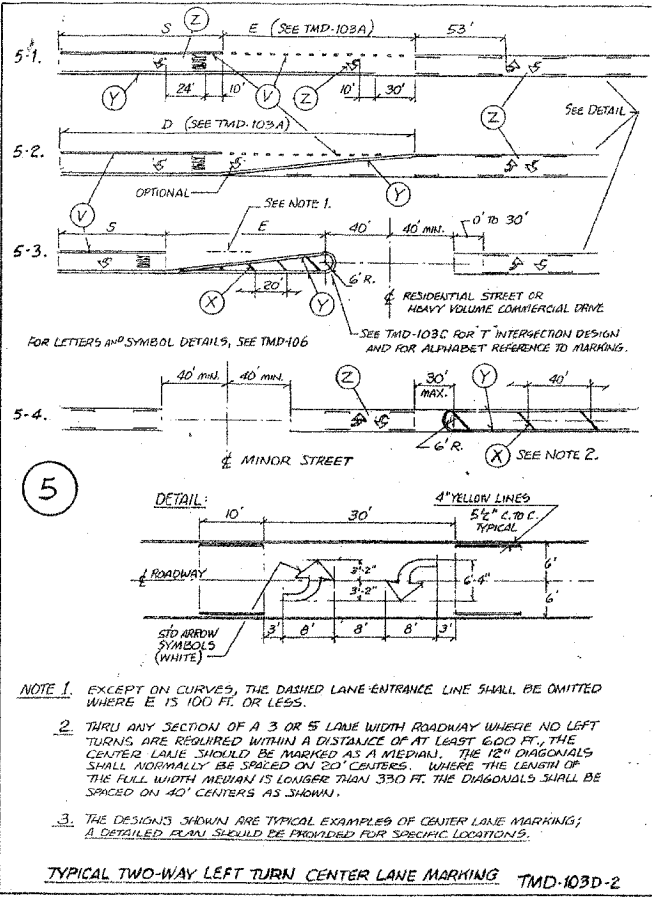
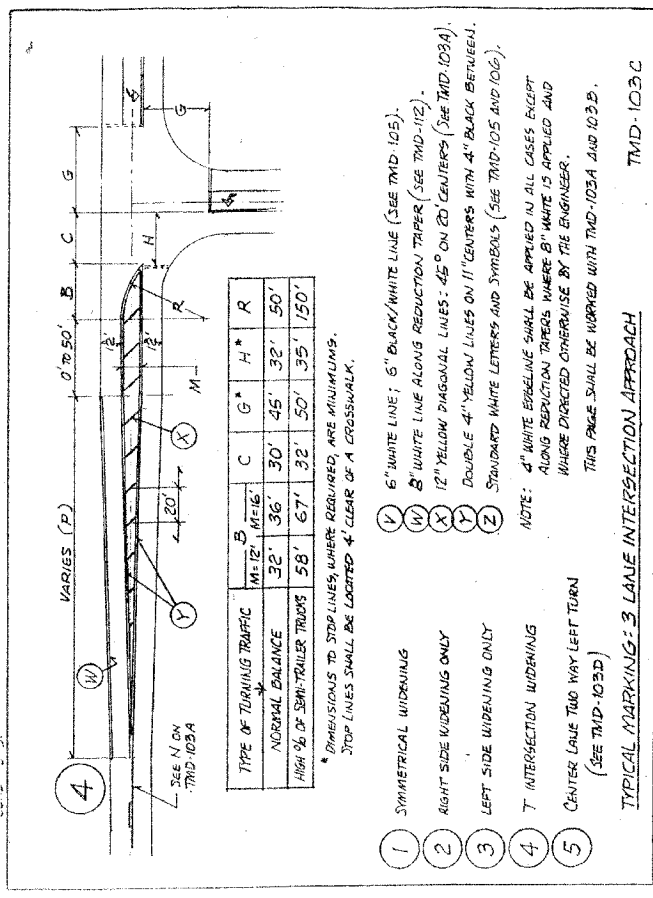
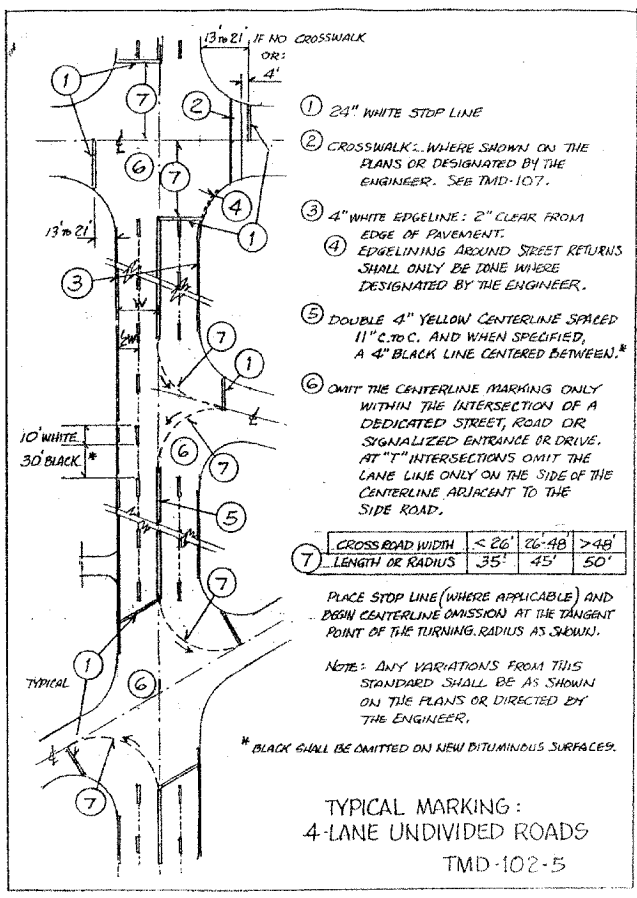
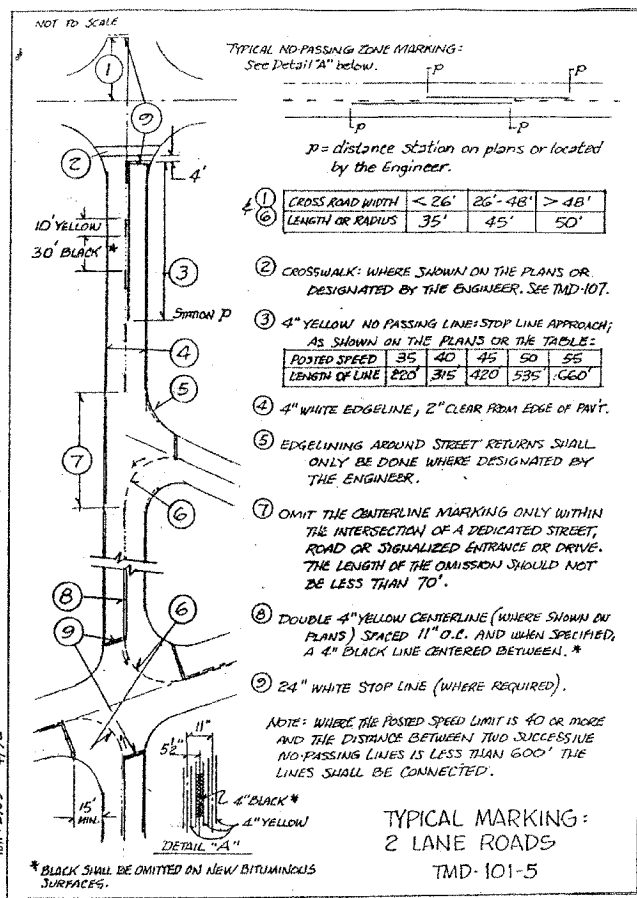
DRILL AND GROUT - IF DOWEL BARS HAVE NOT BEEN PROVIDED IN THE EXISTING PAVEMENT, THEY SHALL BE FURNISHED AND INSTALLED AS SHOWN. THE COST SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE FOR P.C. CONCRETE PAVEMENT.

JOINT DETAIL AT CONTRACT TERMINAL(S)

NO. 15 (NO. 5) DEFORMED TIE BAR,
 750 (30) LONG AT 750 (30) CTS.

County	Fiscal Year	Sheet No.	Total Sheets
		123	167

Section 05-00083-00-1P

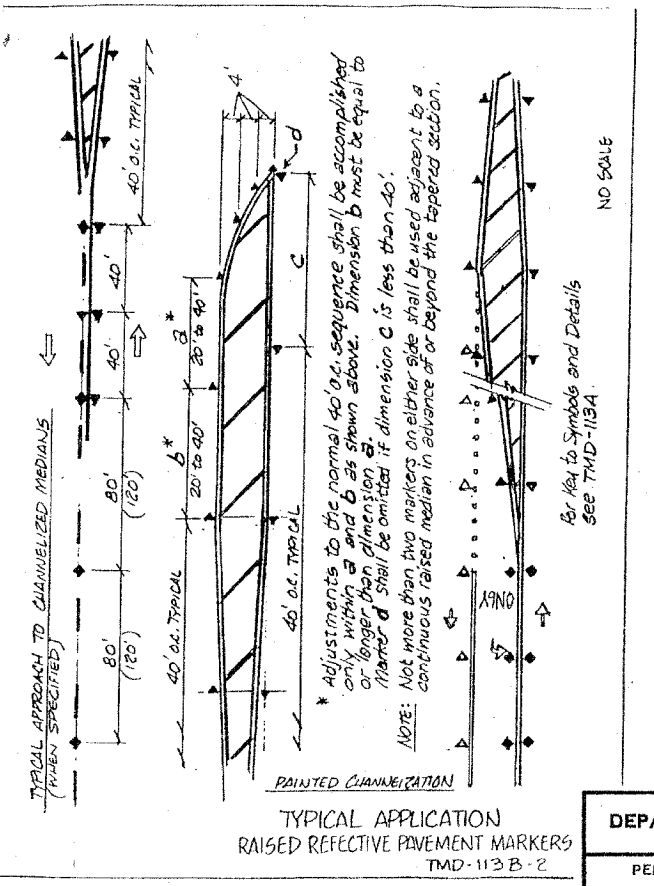
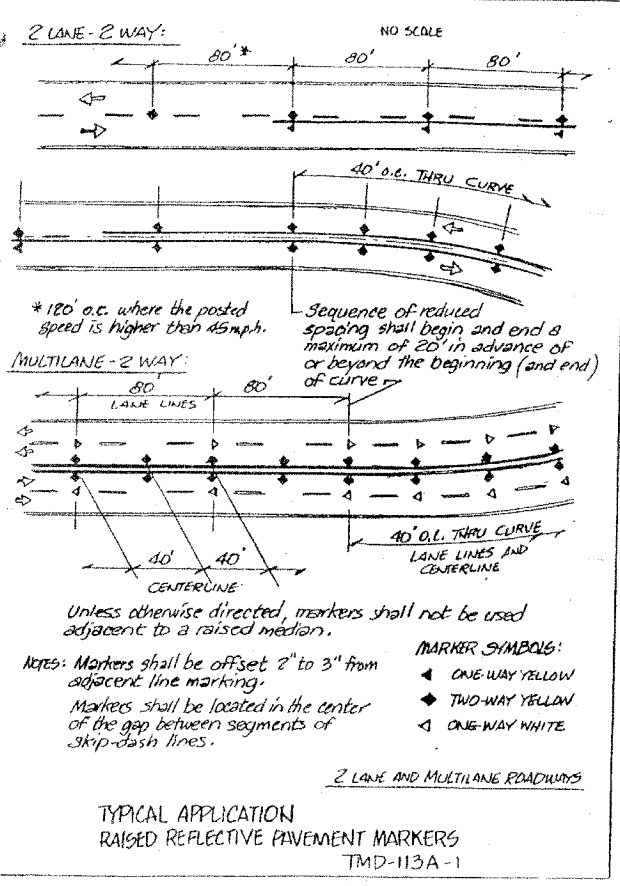
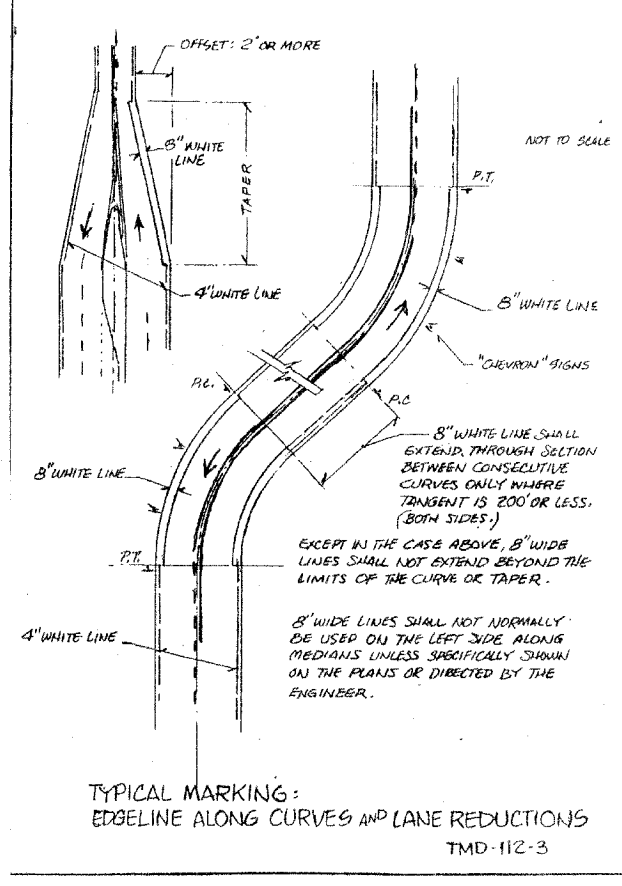
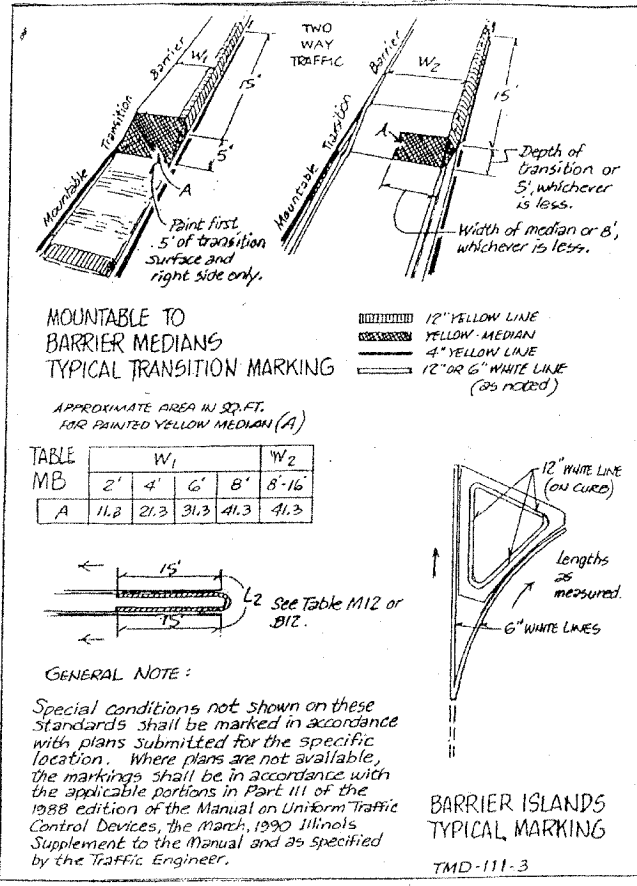
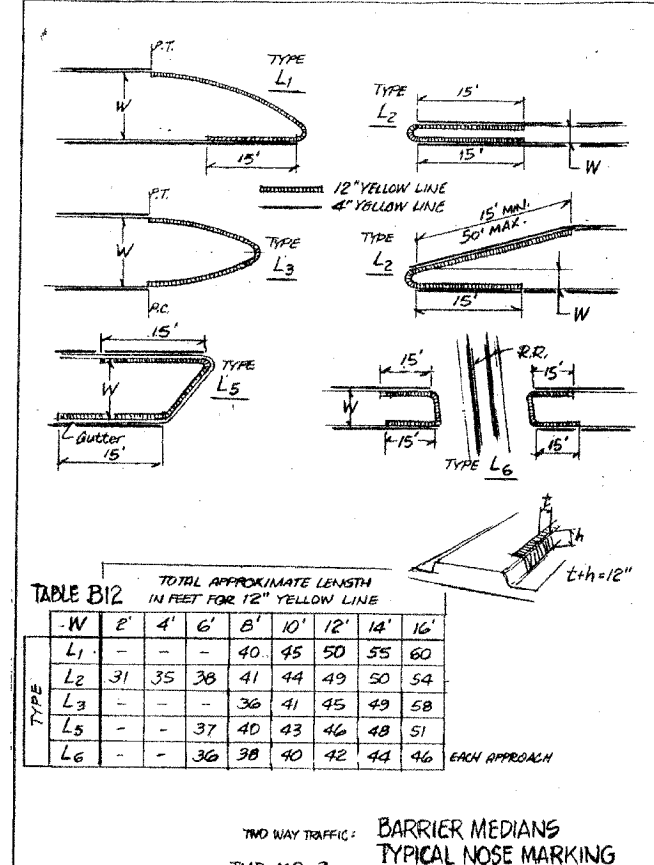
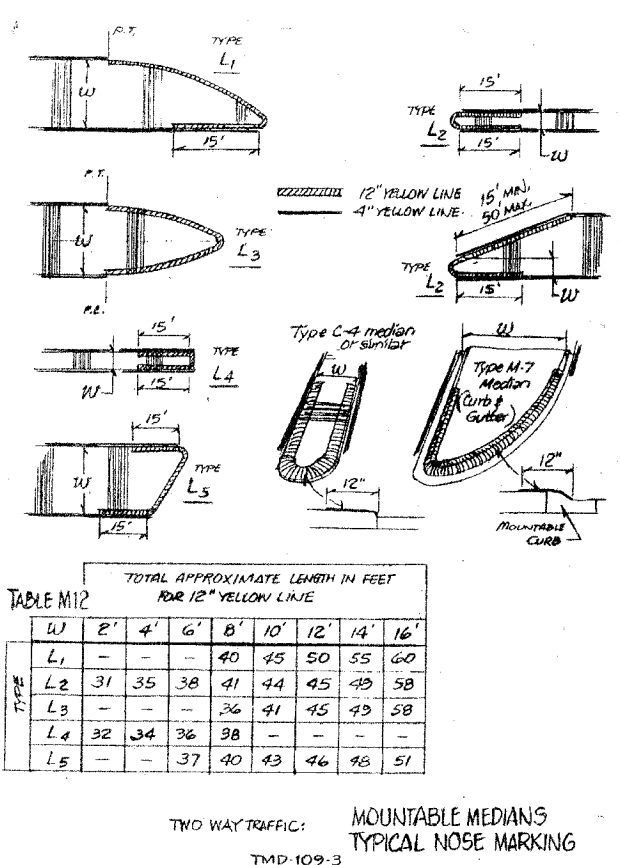
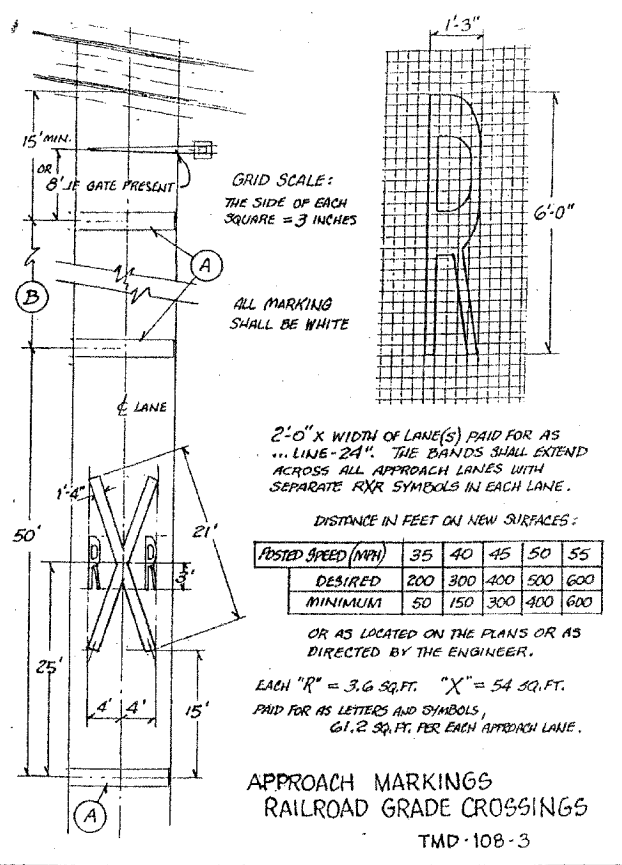
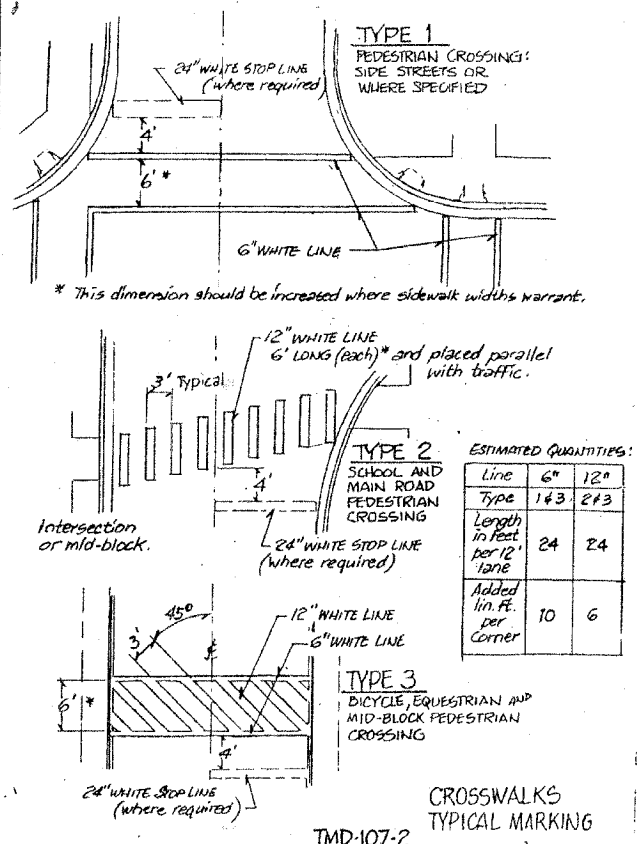


COUNTY OF COOK
DEPARTMENT OF HIGHWAYS

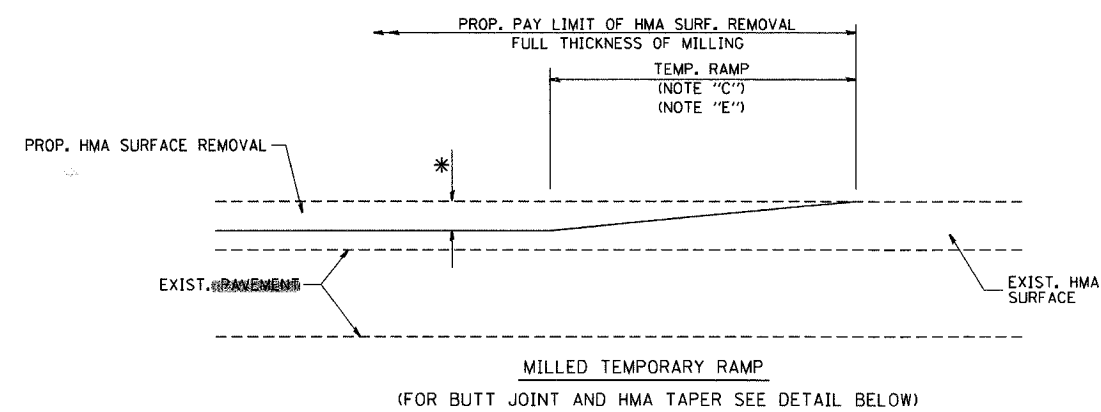
PERMANENT PAVEMENT MARKING STANDARDS (SHEET 1 OF 2)

COMPUTED _____
DRAWN _____
CHECKED _____

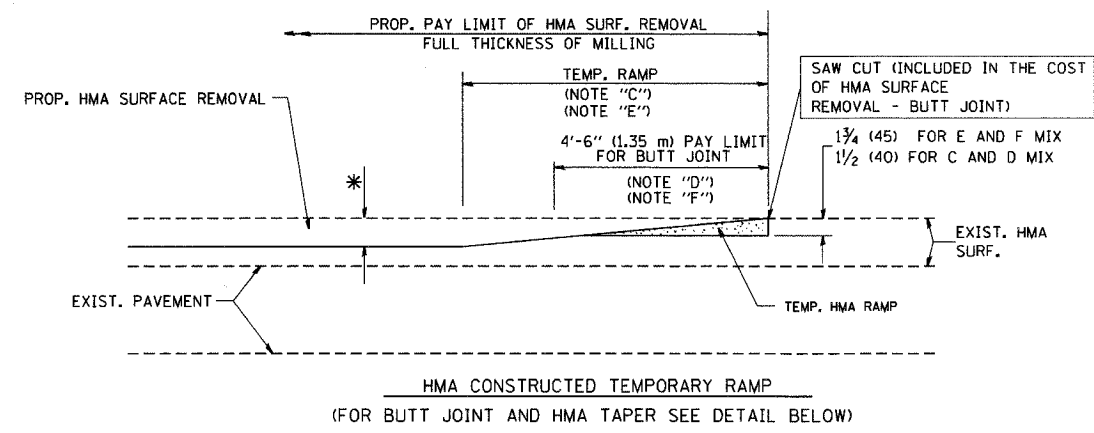
APPROVED _____
DATE _____



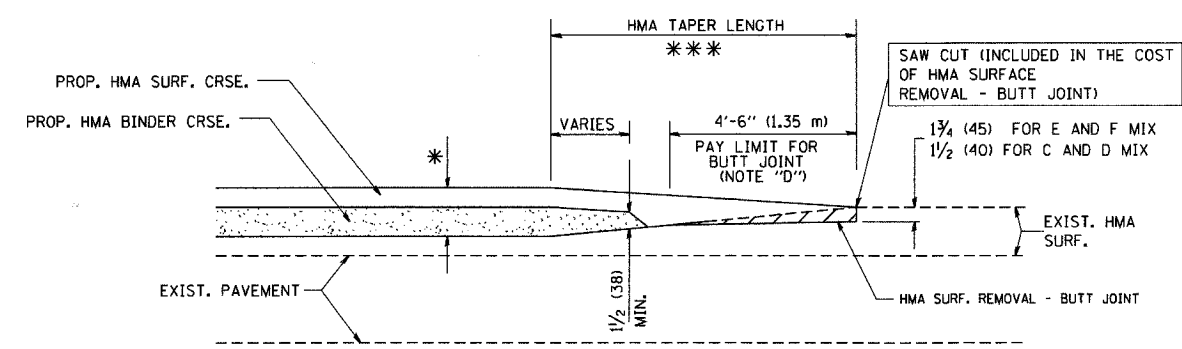
CONTRACT NO. 83980			
F.A.R. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
1338	05-00083-00-FP	COOK	167 125
STA.		TO STA.	
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT	
M-8003(512)			



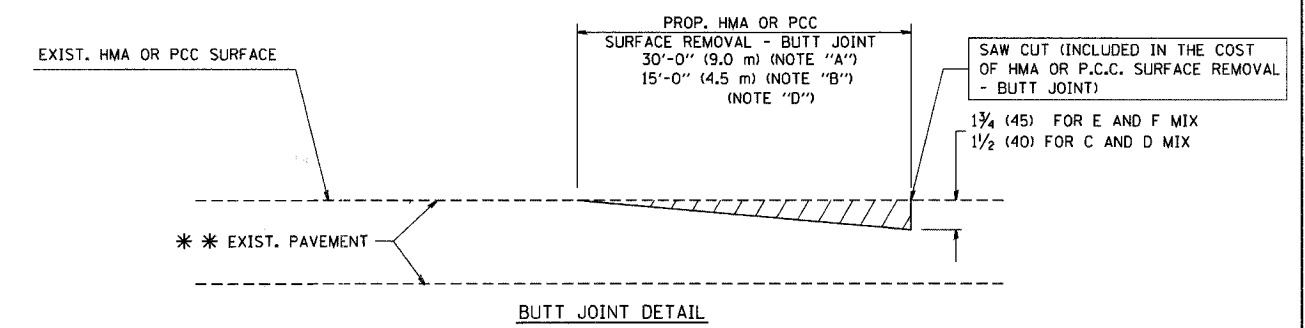
OPTION 1



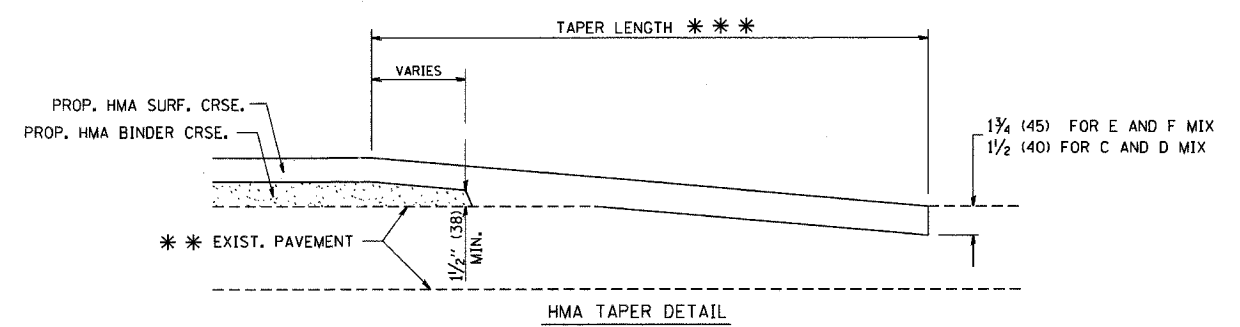
**OPTION 2
TYPICAL TEMPORARY RAMP**



**TYPICAL BUTT JOINT AND HMA TAPER
FOR MILLING AND RESURFACING**



BUTT JOINT DETAIL



HMA TAPER DETAIL

**TYPICAL BUTT JOINT AND HMA TAPER
FOR RESURFACING ONLY**

** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- B: MINOR SIDE ROADS.
- C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
- F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
- G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- * * * 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

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

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

REVISIONS	
NAME	DATE
M. DE YONG	6-13-90
M. DE YONG	7-3-90
M. DE YONG	3-27-92
R. SHAH	09/09/94
R. SHAH	10/25/94
A. ABBAS	03/21/97
M. GOMEZ	04/06/01
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

**BUTT JOINT AND
HMA TAPER
DETAILS**

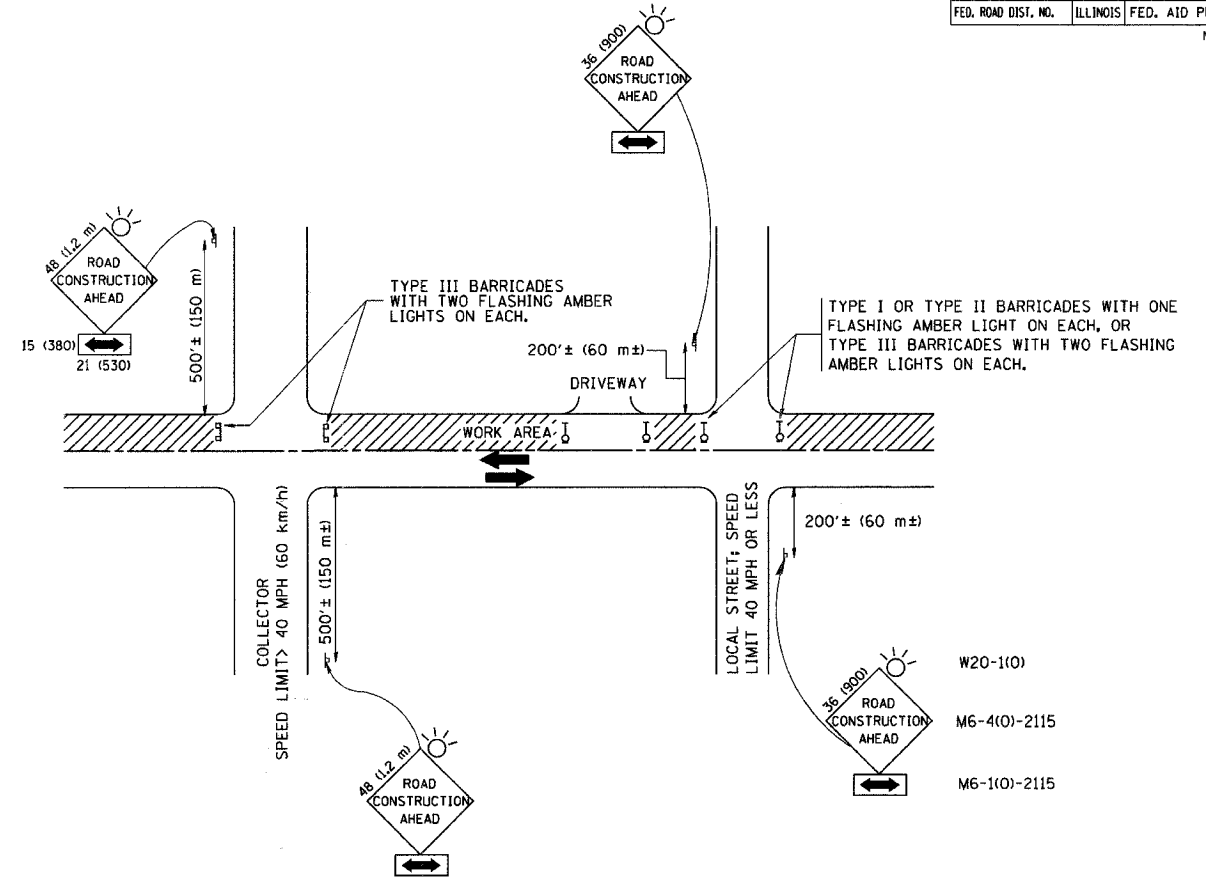
SCALE: VERT. NONE
HORIZ.

DRAWN BY
CHECKED BY

BD400-05 (VI-BD32)

PLOT DATE = 3/5/2007
 PLOT SCALE = 50.0000' / IN.
 USER NAME = baward

F.A.P. RY.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1338	05-00083-00-FP	COOK	167	126
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
M-8003(512)				



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. T01501, STD. T01606 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.

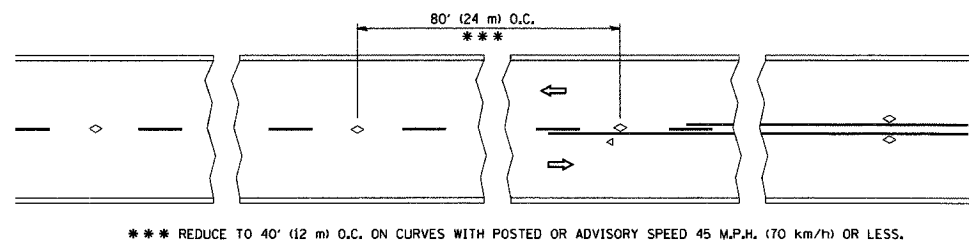
All dimensions are in millimeters (inches) unless otherwise shown.

REVISIONS	
NAME	DATE
LHA	6/89
T. RAMMACHER	09/08/94
J. OBERLE	10/18/95
A. HOUSEH	03/06/96
A. HOUSEH	10/15/96
T. RAMMACHER	01/06/00

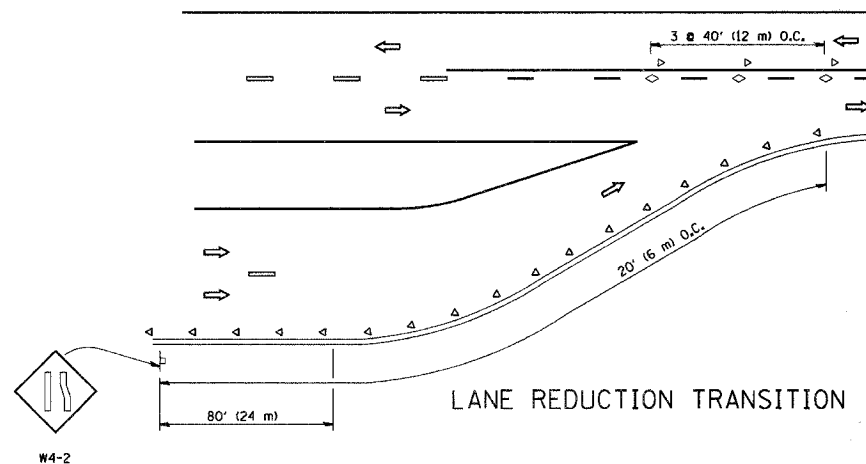
ILLINOIS DEPARTMENT OF TRANSPORTATION
 TRAFFIC CONTROL AND PROTECTION FOR
 SIDE ROADS, INTERSECTIONS, AND
 DRIVEWAYS

SCALE: NONE
 DRAWN BY
 CHECKED BY

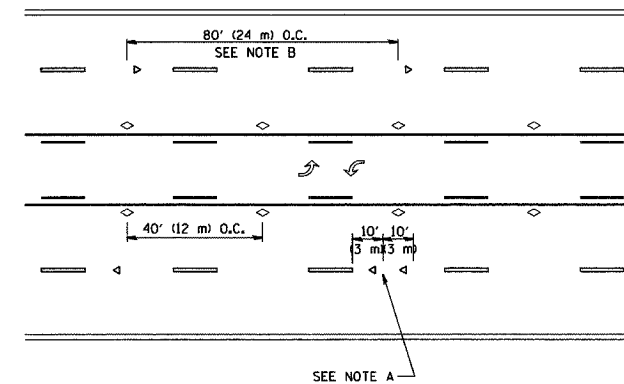
PLOT DATE = 2/10/2007
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 USER NAME = bward-d



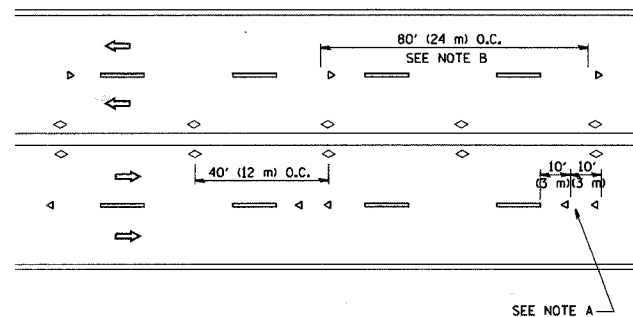
TWO-LANE/TWO-WAY



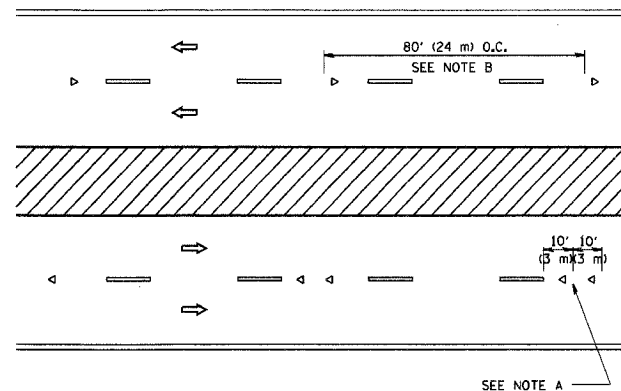
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

SYMBOLS

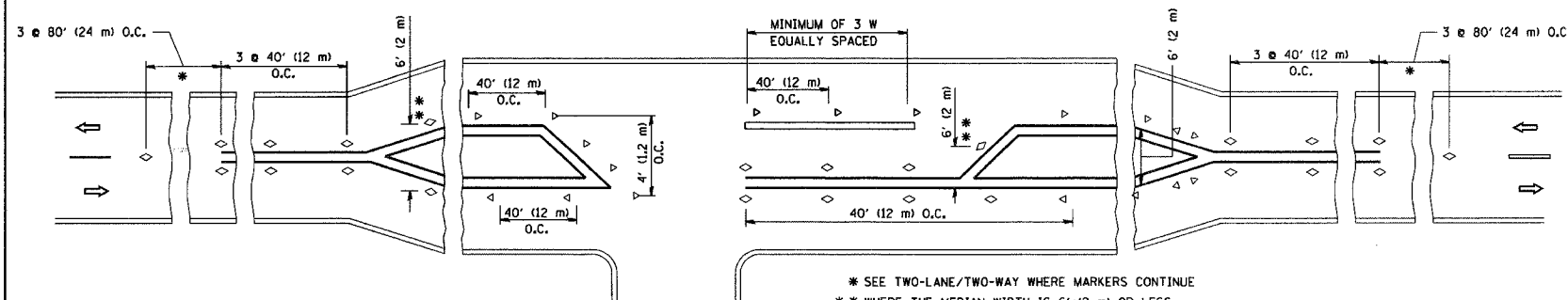
- YELLOW STRIPE
- WHITE STRIPE
- ◁ ONE-WAY AMBER MARKER
- ◄ ONE-WAY CRYSTAL MARKER (W/O)
- ◇ TWO-WAY AMBER MARKER

LANE MARKER NOTES

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

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



LEFT TURN

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

PLT DATE = 3/6/2007
PLT SCALE = 3/8" = 1'-0"
USER NAME = baurd1

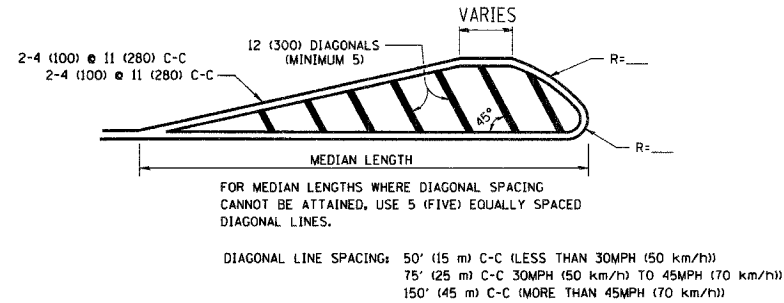
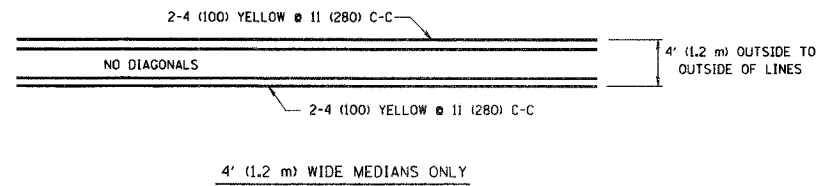
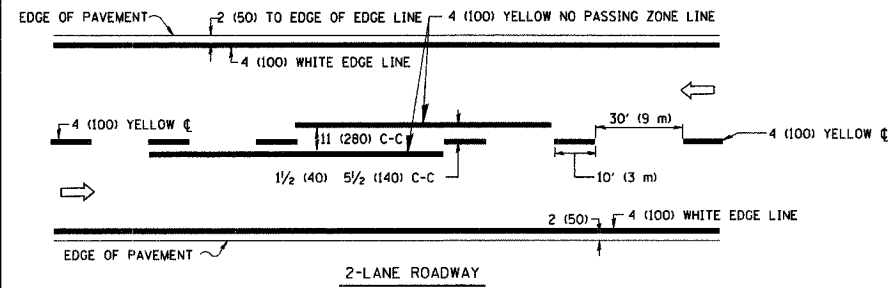
REVISIONS	
NAME	DATE
T. RAMMACHER	09-19-94
T. RAMMACHER	03-12-99
T. RAMMACHER	01-06-00

ILLINOIS DEPARTMENT OF TRANSPORTATION
TYPICAL APPLICATIONS
RAISED REFLECTIVE PAVEMENT
MARKERS (SNOW-PLOW RESISTANT)

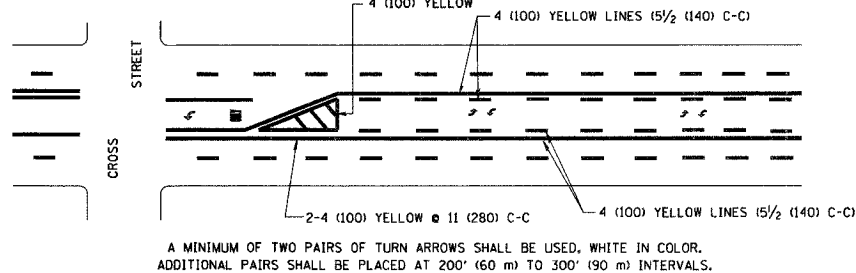
SCALE: NONE

DRAWN BY CADD
CHECKED BY
TC-11

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1338	05-00083-00-FP	COOK	167	128
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	M-8003(612)	

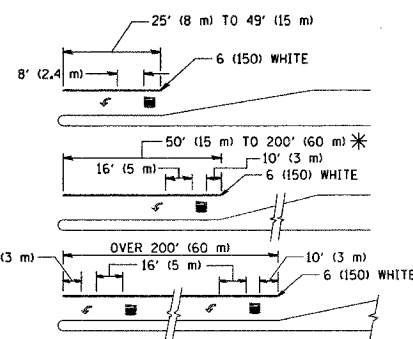


MEDIANS OVER 4' (1.2 m) WIDE



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

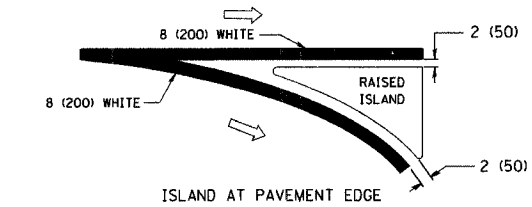
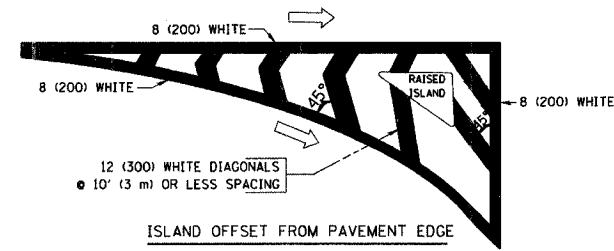


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

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

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

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

REVISIONS	
NAME	DATE
EVERS	03-19-90
T. RAMMACHER	10-27-94
ALEX HOUSEH	10-09-96
ALEX HOUSEH	10-17-96
T. RAMMACHER	01-06-00

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

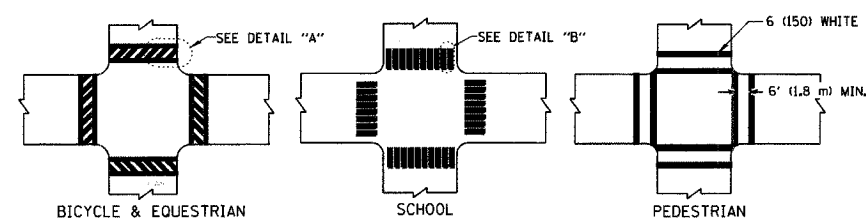
SCALE: NONE

DRAWN BY CADD

CHECKED BY

TC-13

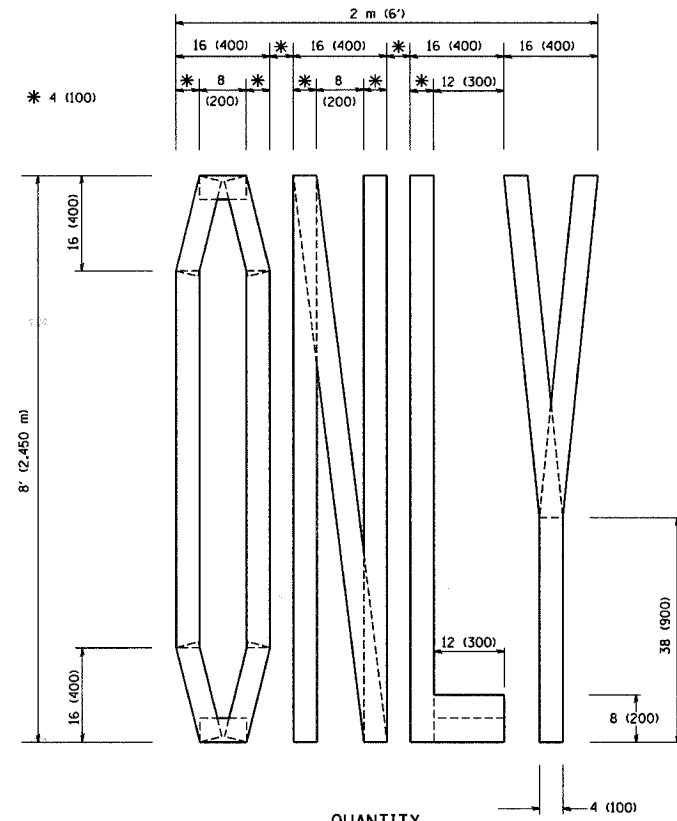
TYPICAL LANE AND EDGE LINE MARKING



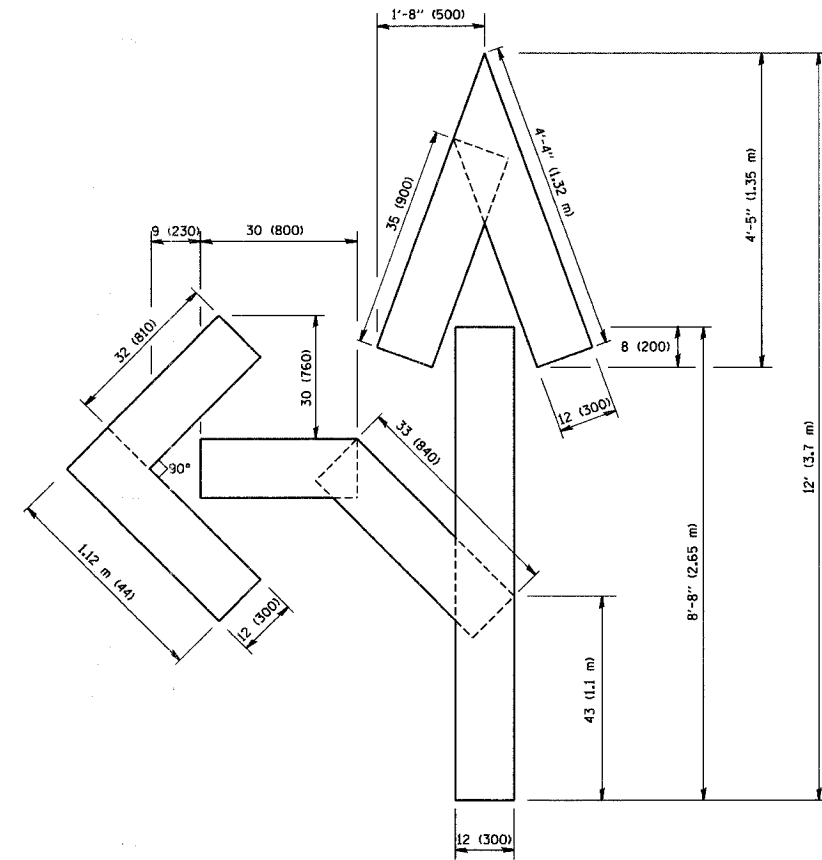
TYPICAL CROSSWALK MARKING

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1338	05-00083-00-FP	COOK	167	129
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		

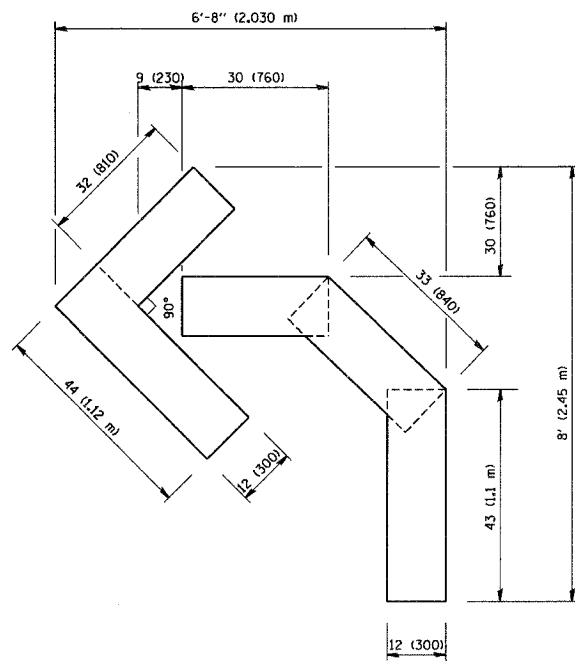
M-8003(512)



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



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



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

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

REVISIONS	
NAME	DATE
T. RAMMACHER	09/18/94
J. OBERLE	06/01/98
T. RAMMACHER	06/05/98
T. RAMMACHER	11/04/97
T. RAMMACHER	03/02/98
E. GOMEZ	08/28/00

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING
LETTERS AND SYMBOLS
FOR TRAFFIC STAGING

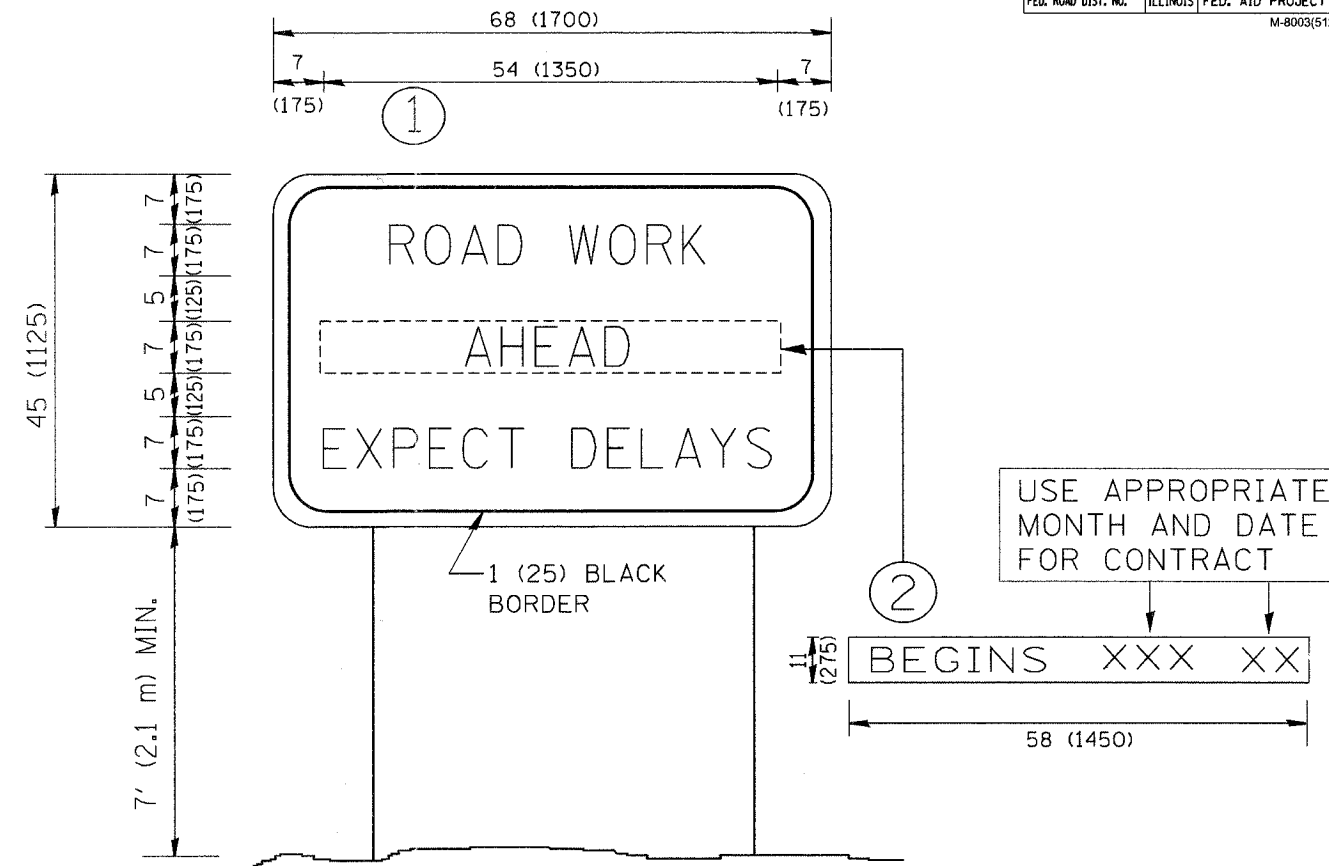
SCALE: NONE

DRAWN BY CADD

CHECKED BY

TC-16

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
133B	05-00083-00-FP	COOK	167	130
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
M-8003(512)				



NOTES:

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

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

REVISIONS	
NAME	DATE
R. WIRS	9-15-97
R. WIRS	12-11-97
T. RAMMACHER	2-2-99
C. JUCIUS	1-31-07

ILLINOIS DEPARTMENT OF TRANSPORTATION
**ARTERIAL ROAD
 INFORMATION SIGN**

SCALE: NONE

DRAWN BY DESIGN
 CHECKED BY

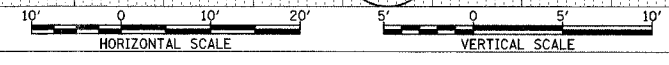
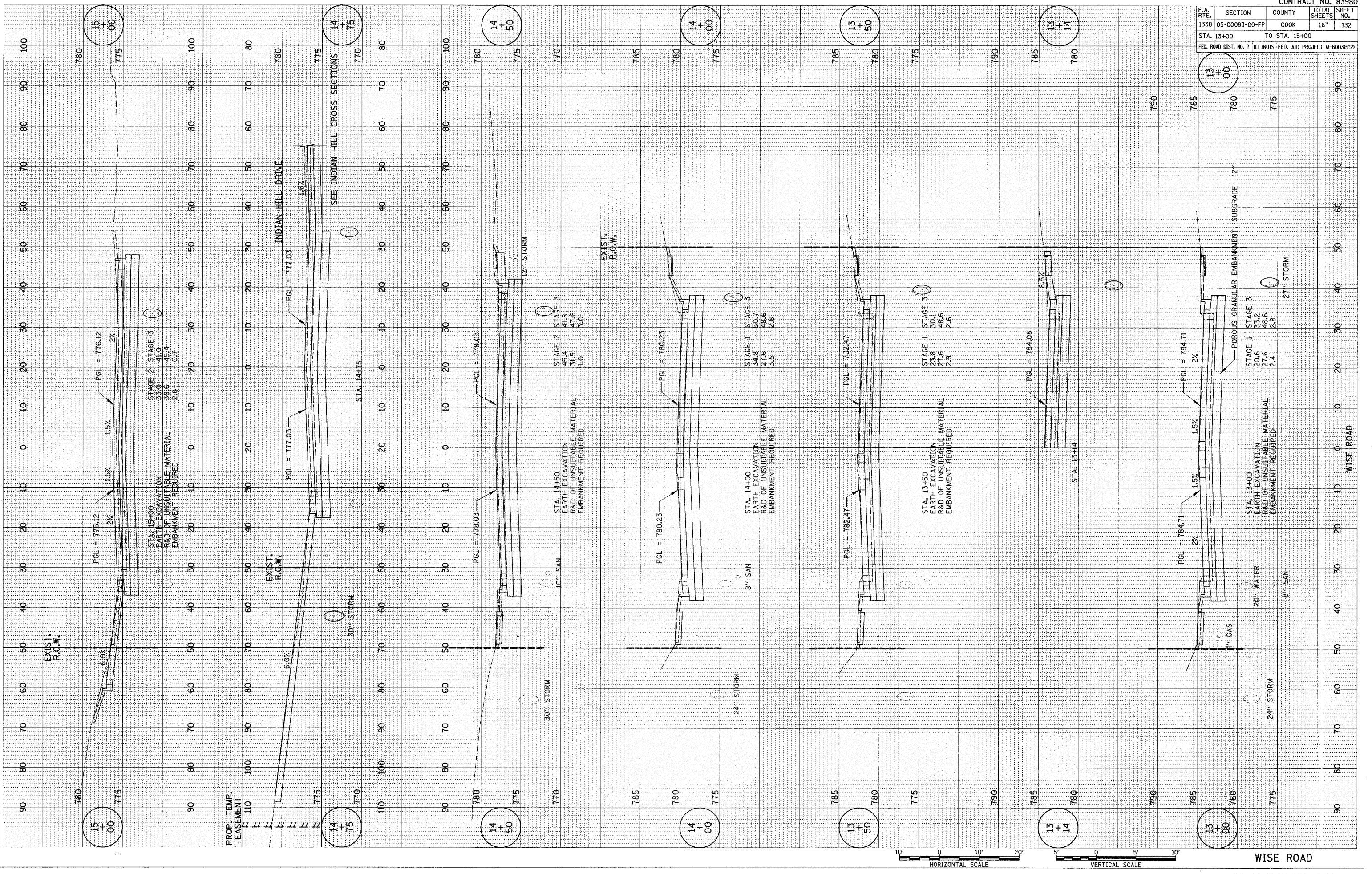
TC22

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1338	05-00083-00-FP	COOK	167	132
STA. 13+00		TO STA. 15+00		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT M-8003(512)				

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

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

PLOT DATE = #DATE*
 PLOT SCALE = #SCALE*
 REFERENCE = #REF*

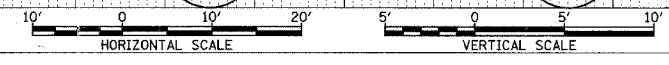
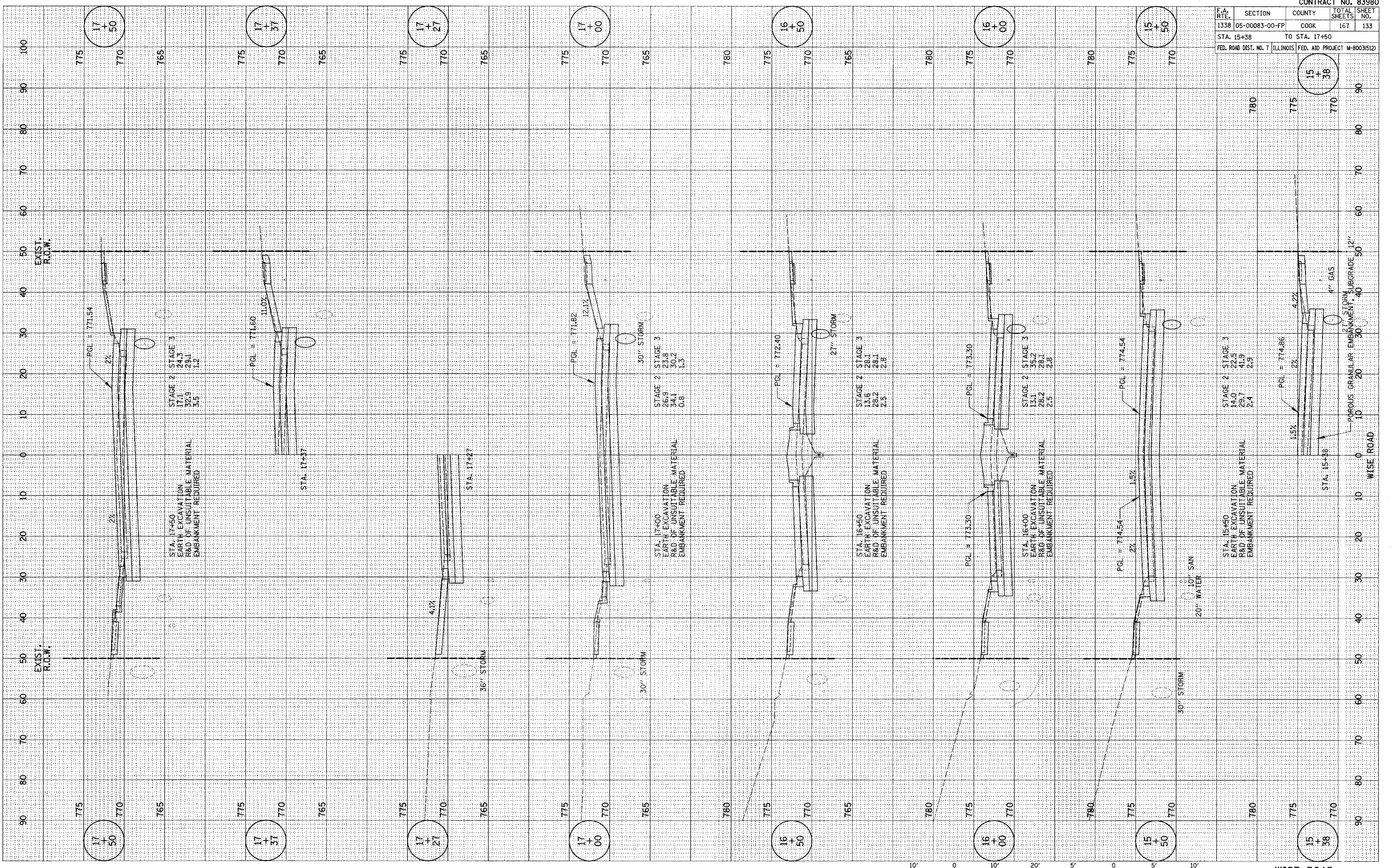


F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1338	05-0083-00-FP	COOK	167	133
STA. 15+38		TO STA. 17+50		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT M-6003(512)		

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

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

PLOT DATE = DATE
 PLOT SCALE = SCALE
 REFERENCE = REF

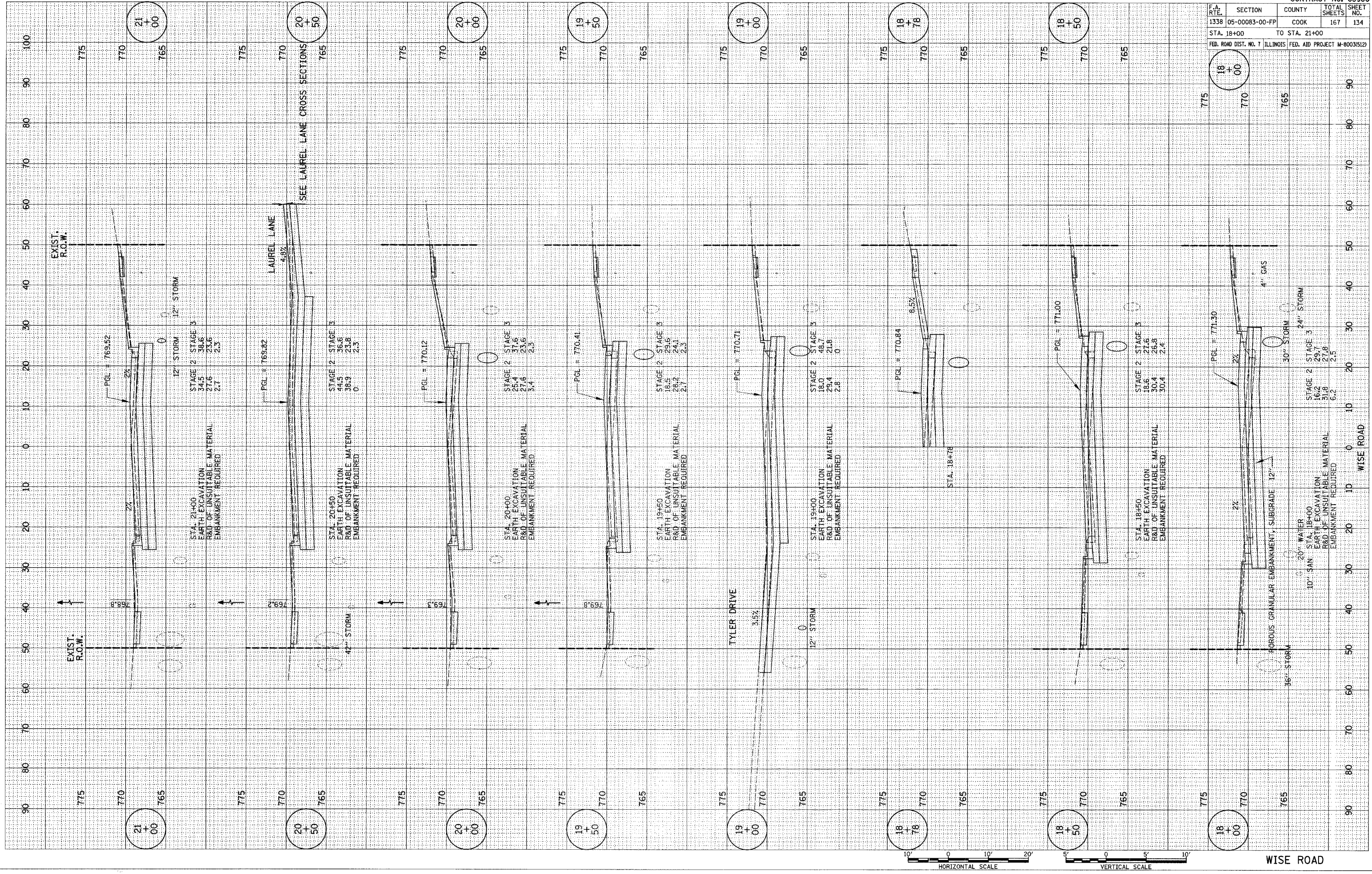


FINAL	CHECKED	DATE
SURVEY	PLOTTED	BY
NOTE BOOK	TEMPLATE	
AREAS	CHECKED	
NO.		

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

PLOT DATE = #DATE#
 FILE NAME = #FILE#
 PLOT SCALE = #SCALE#
 REFERENCE = #REF#

CONTRACT NO. 83980			
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS
1338	05-00083-00-FP	COOK	167
STA. 18+00		TO STA. 21+00	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT	M-8003(S12)



775	770	765	775	770	765	775	770	765	775	770	765	775	770	765	775	770	765
18+00	18+50	19+00	19+50	20+00	20+50	21+00	21+00	21+00	21+00	21+00	21+00	21+00	21+00	21+00	21+00	21+00	21+00
WISE ROAD																	

STA. 18+00 TO STA. 21+00

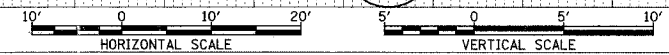
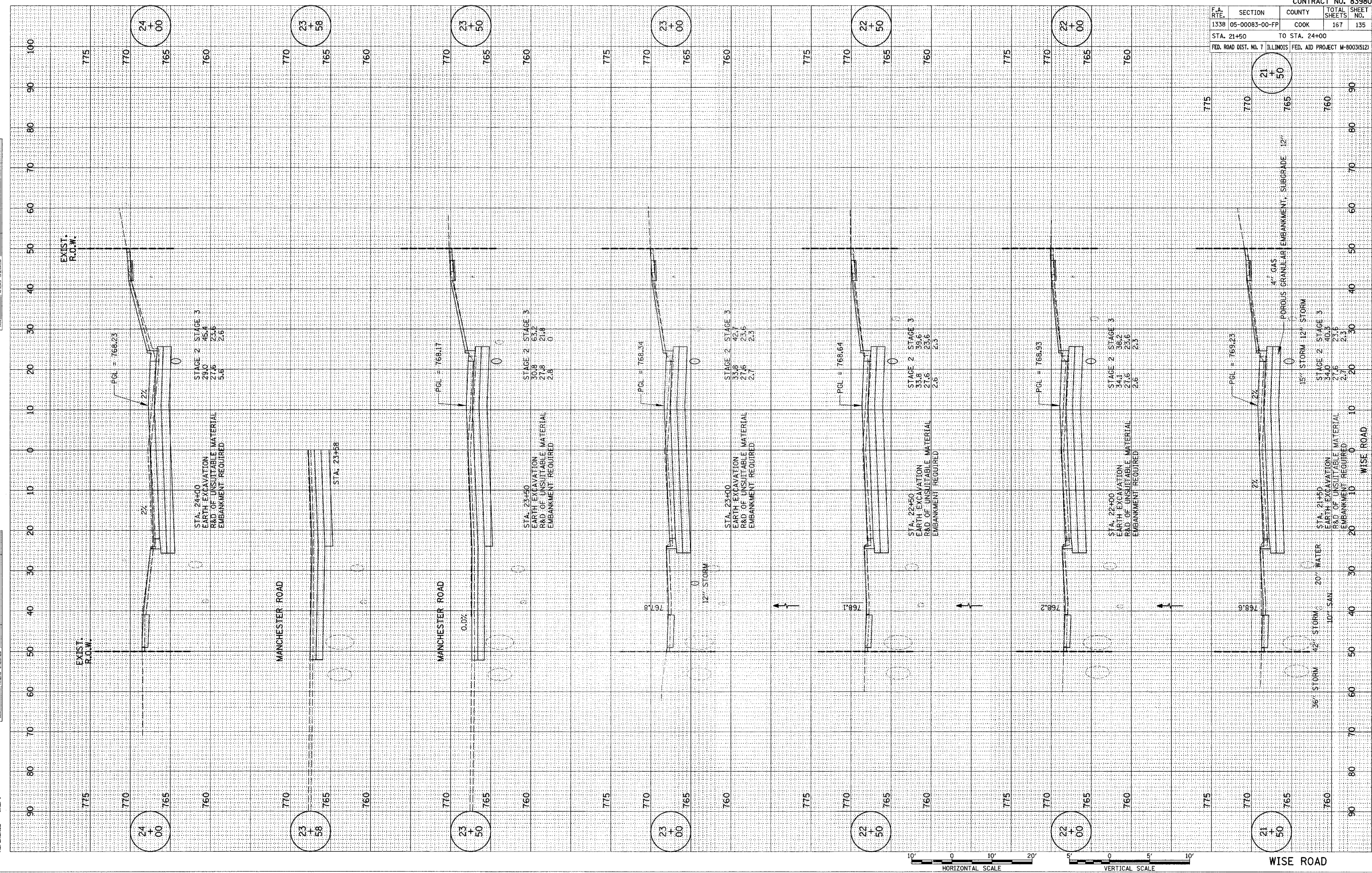
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1338	05-00083-00-FP	COOK	167	135

STA. 21+50 TO STA. 24+00
 FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT M-8003(5)2

FINAL SURVEY	BY	DATE
SURVEY		
PLOTTED		
TEMPLATE		
NO. BOOK		
AREAS CHECKED		

ORIGINAL SURVEY	BY	DATE
SURVEY		
PLOTTED		
TEMPLATE		
NO. BOOK		
AREAS CHECKED		

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 PLOT SCALE = #SCALE#
 REFERENCE = #REF#

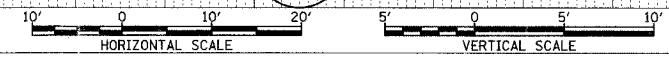
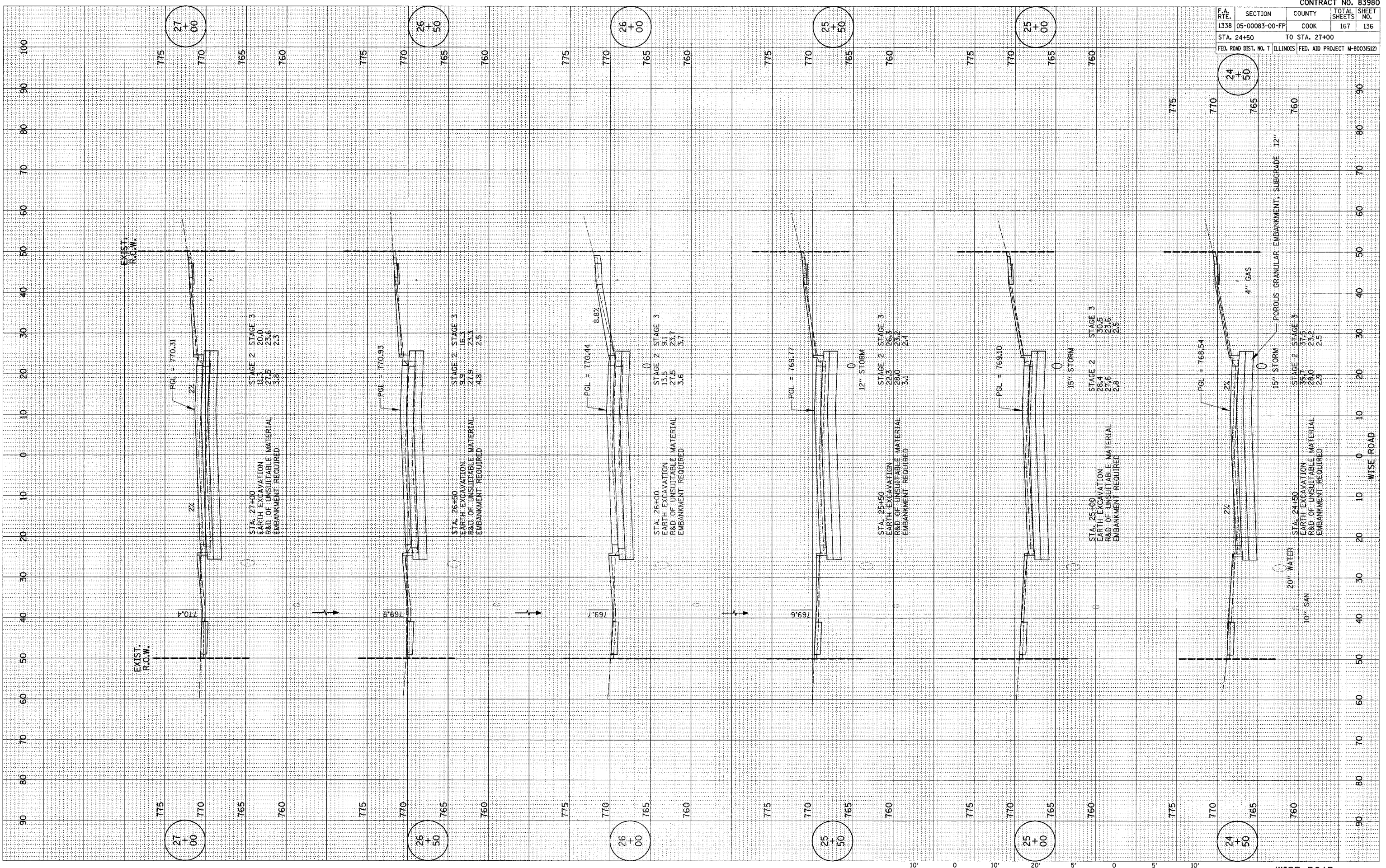


F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1338	05-00083-00-FP	COOK	167	136
STA. 24+50		TO STA. 27+00		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT M-8003(512)				

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

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

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 PLOT SCALE = #SCALE#
 REFERENCE = #REF#

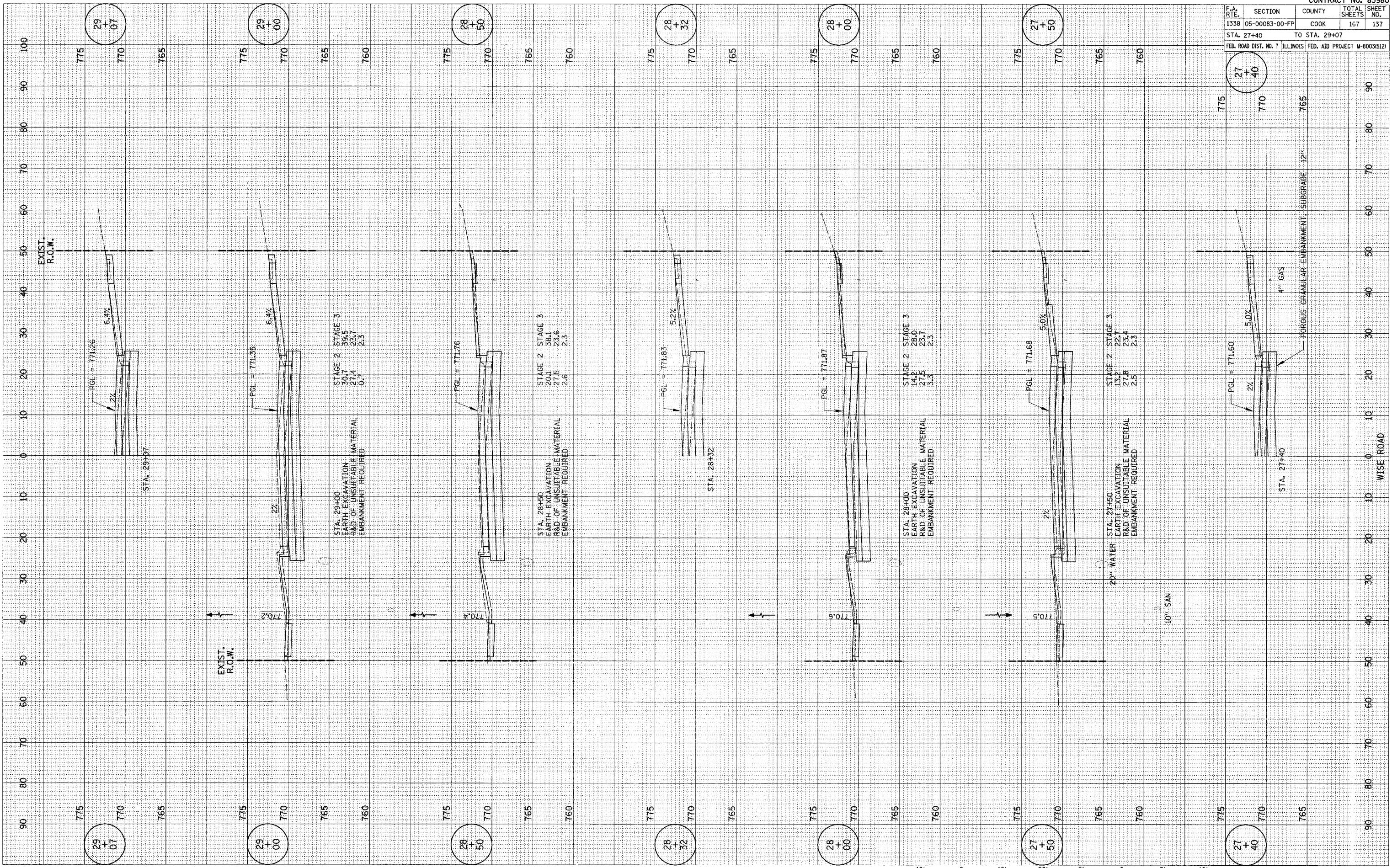


F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1338	05-00083-00-FP	COOK	167	137
STA. 27+40		TO STA. 29+07		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT M-8003(S)2		

FINAL SURVEY	BY	DATE
CONFERRED		
PLOTTED		
TEMPLATE		
NOTE BOOK		
AREAS CHECKED		
NO.		

ORIGINAL SURVEY	BY	DATE
CONFERRED		
PLOTTED		
TEMPLATE		
NOTE BOOK		
AREAS CHECKED		
NO.		

PLOT DATE = #DATE#
 FILE NAME = #FILE#
 PLOT SCALE = #SCALE#
 REFERENCE = #REF#



WISE ROAD

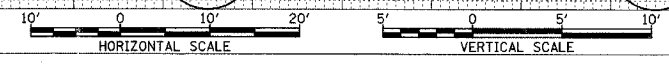
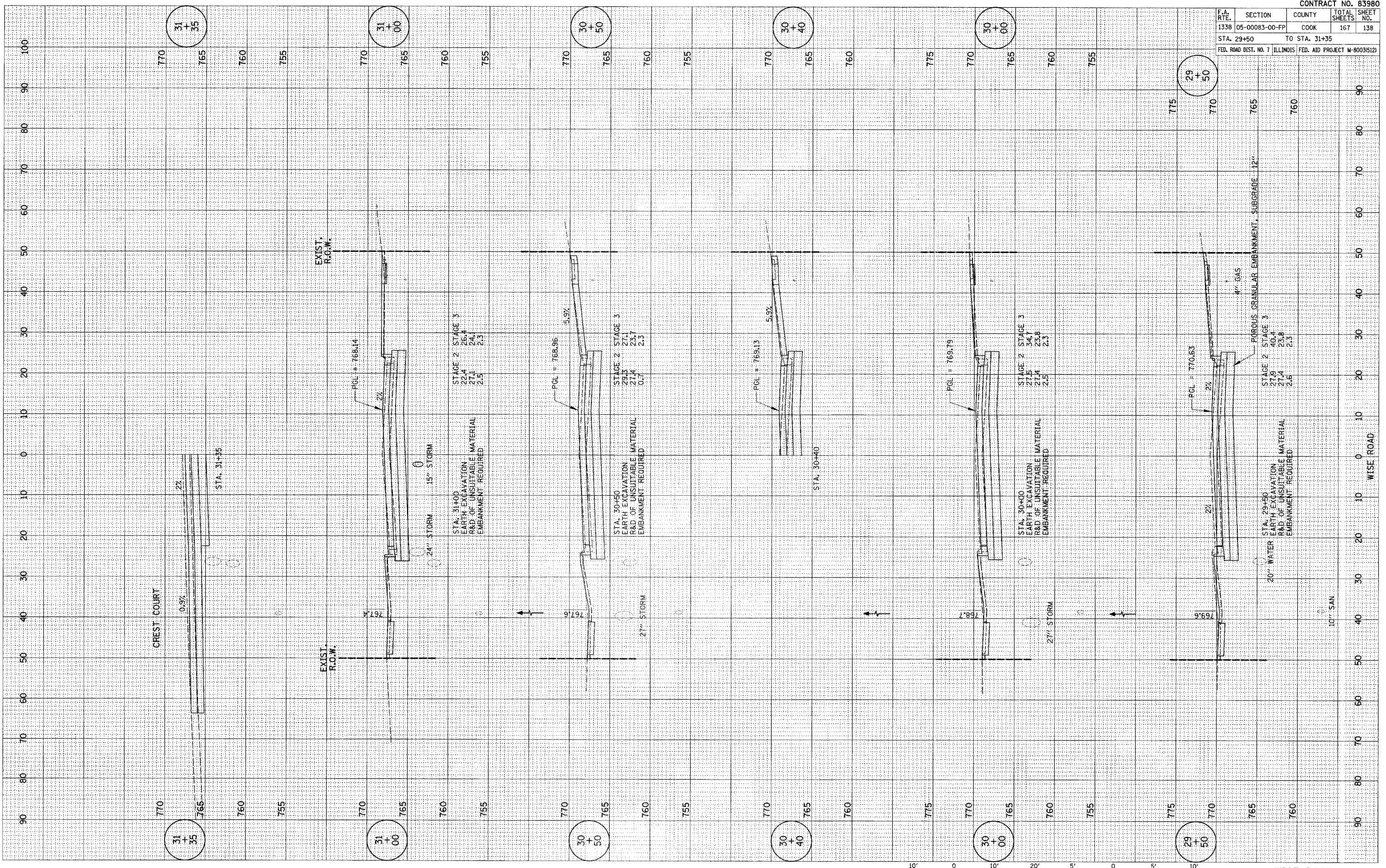
STA. 27+40 TO STA. 29+07

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1338	05-00083-00-FP	COOK	167	138
STA. 29+50		TO STA. 31+35		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT W-8003(5)2				

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

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

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 PLOT SCALE = #SCALE*
 REFERENCE = #REF*

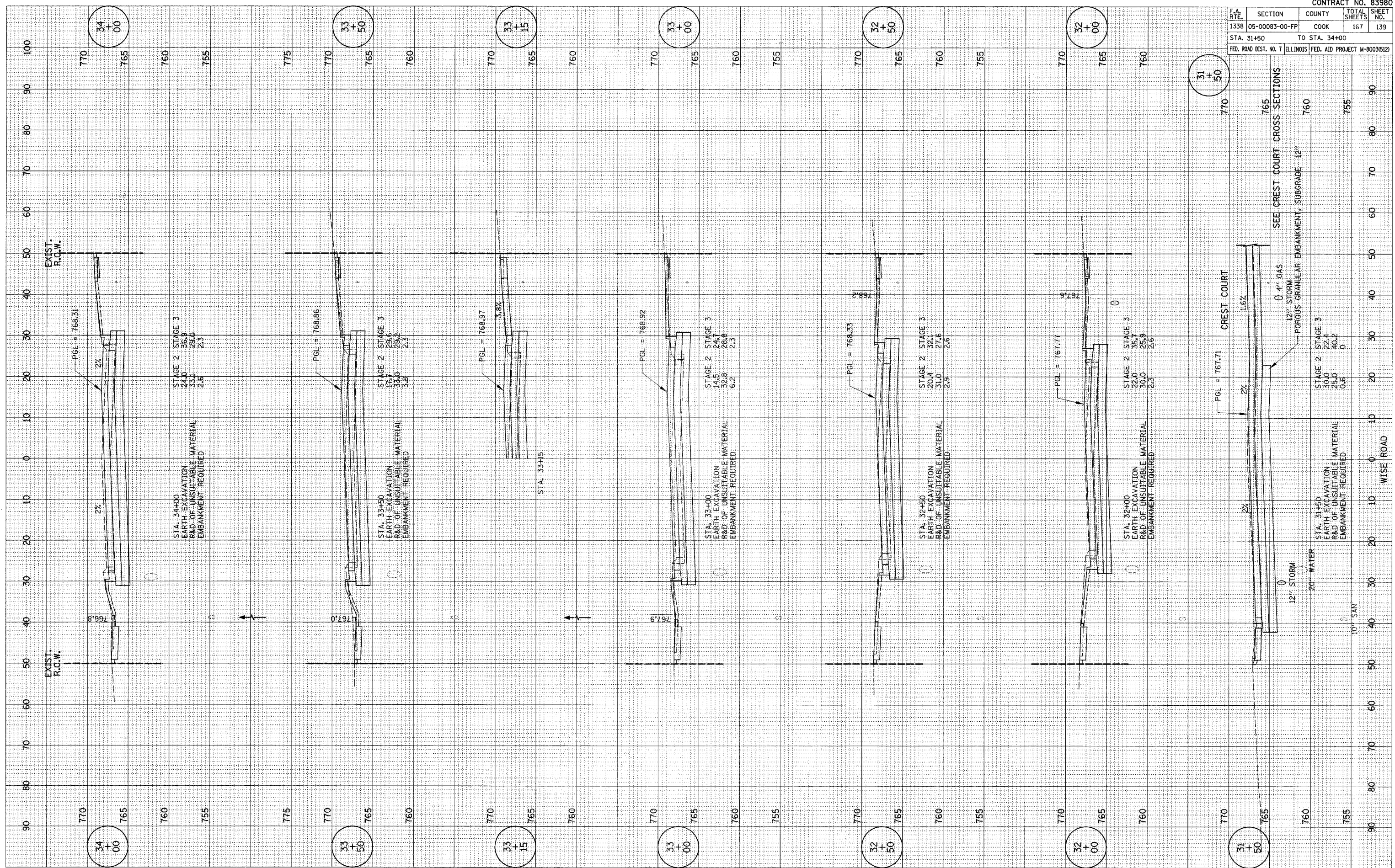


F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1338	05-00083-00-FP	COOK	167	139
STA. 31+50		TO STA. 34+00		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT M-80035121		

FINAL SURVEY	DATE
REVISIONS	BY
NOTED	
AREAS CHECKED	

ORIGINAL SURVEY	DATE
REVISIONS	BY
NOTED	
AREAS CHECKED	

PLOT DATE = #DATE#
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 PLOT SCALE = #SCALE#
 REFERENCE = #REF#

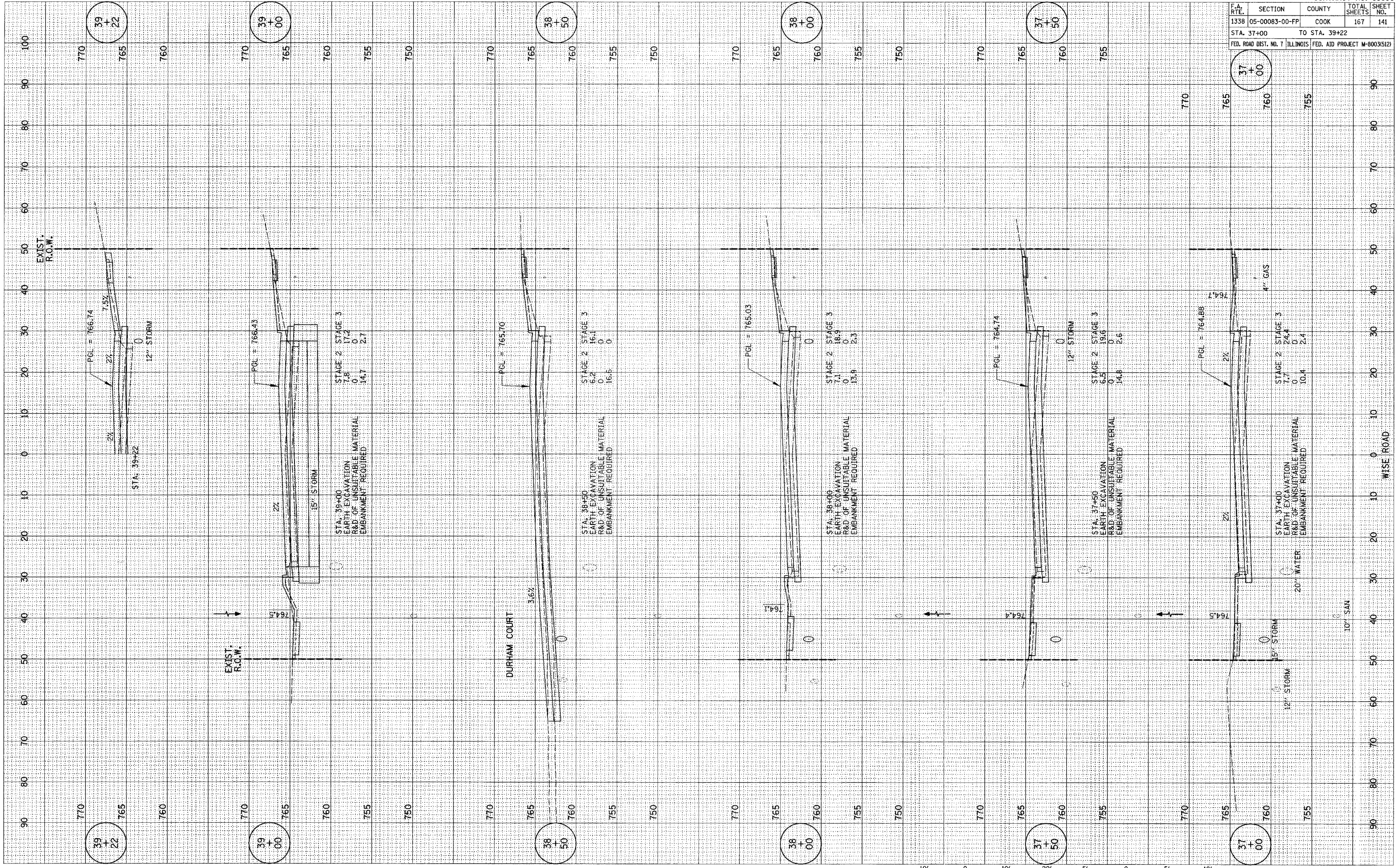


F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1338	05-00083-00-FP	COOK	167	141
STA. 37+00		TO STA. 39+22		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT M-8003512				

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

ORIGINAL SURVEY	BY	DATE
NOTED SURVEY		
NOTE BOOK NO.		
AREAS CHECKED		

PLOT DATE = 04/28/04
 PLOT SCALE = AS SHOWN
 REFERENCE = 04/28/04



STA. 39+00
 EARTH EXCAVATION
 REQ. OF UNSUITABLE MATERIAL
 EMBANKMENT REQUIRED

STAGE 2	7.8	17.2
STAGE 3	0.0	0.0
TOTAL	14.7	2.7

STA. 38+00
 EARTH EXCAVATION
 REQ. OF UNSUITABLE MATERIAL
 EMBANKMENT REQUIRED

STAGE 2	6.2	16.1
STAGE 3	0.0	0.0
TOTAL	16.5	0.0

STA. 37+00
 EARTH EXCAVATION
 REQ. OF UNSUITABLE MATERIAL
 EMBANKMENT REQUIRED

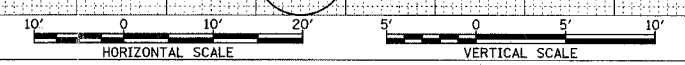
STAGE 2	7.1	18.9
STAGE 3	0.0	0.0
TOTAL	13.9	2.3

STA. 37+00
 EARTH EXCAVATION
 REQ. OF UNSUITABLE MATERIAL
 EMBANKMENT REQUIRED

STAGE 2	6.5	19.6
STAGE 3	0.0	0.0
TOTAL	14.8	2.6

STA. 37+00
 EARTH EXCAVATION
 REQ. OF UNSUITABLE MATERIAL
 EMBANKMENT REQUIRED

STAGE 2	7.7	24.4
STAGE 3	0.0	0.0
TOTAL	10.4	2.4

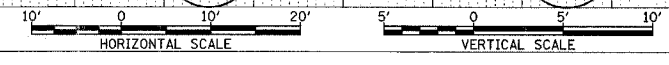
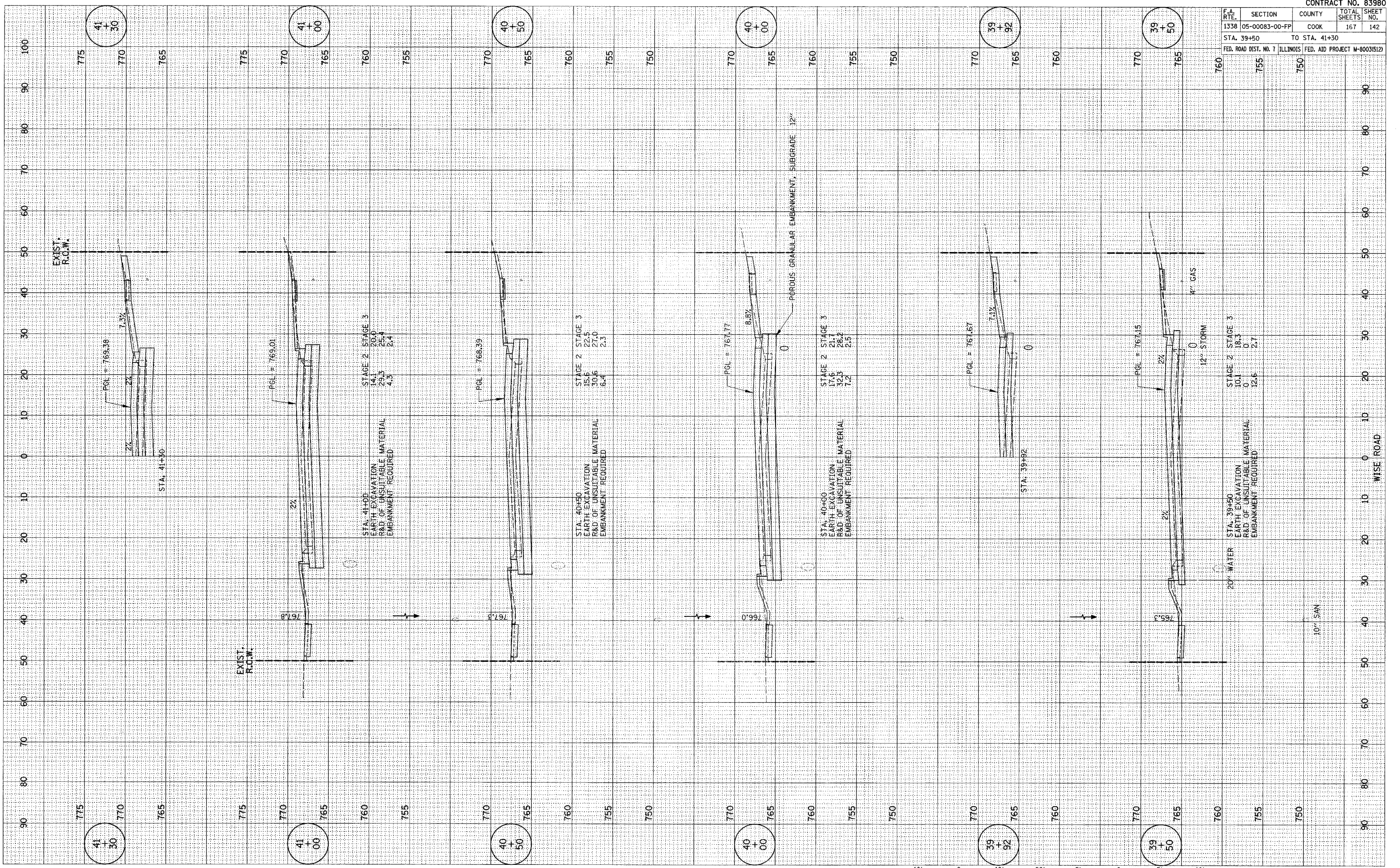


F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1338	05-00083-00-PP	COOK	167	142
STA. 39+50		TO STA. 41+30		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT M-8003(512)				

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

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

PLOT DATE = 08/05
 PLOT SCALE = 1"=40'
 REFERENCE = 08/05

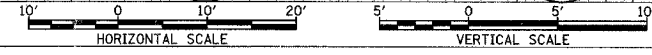
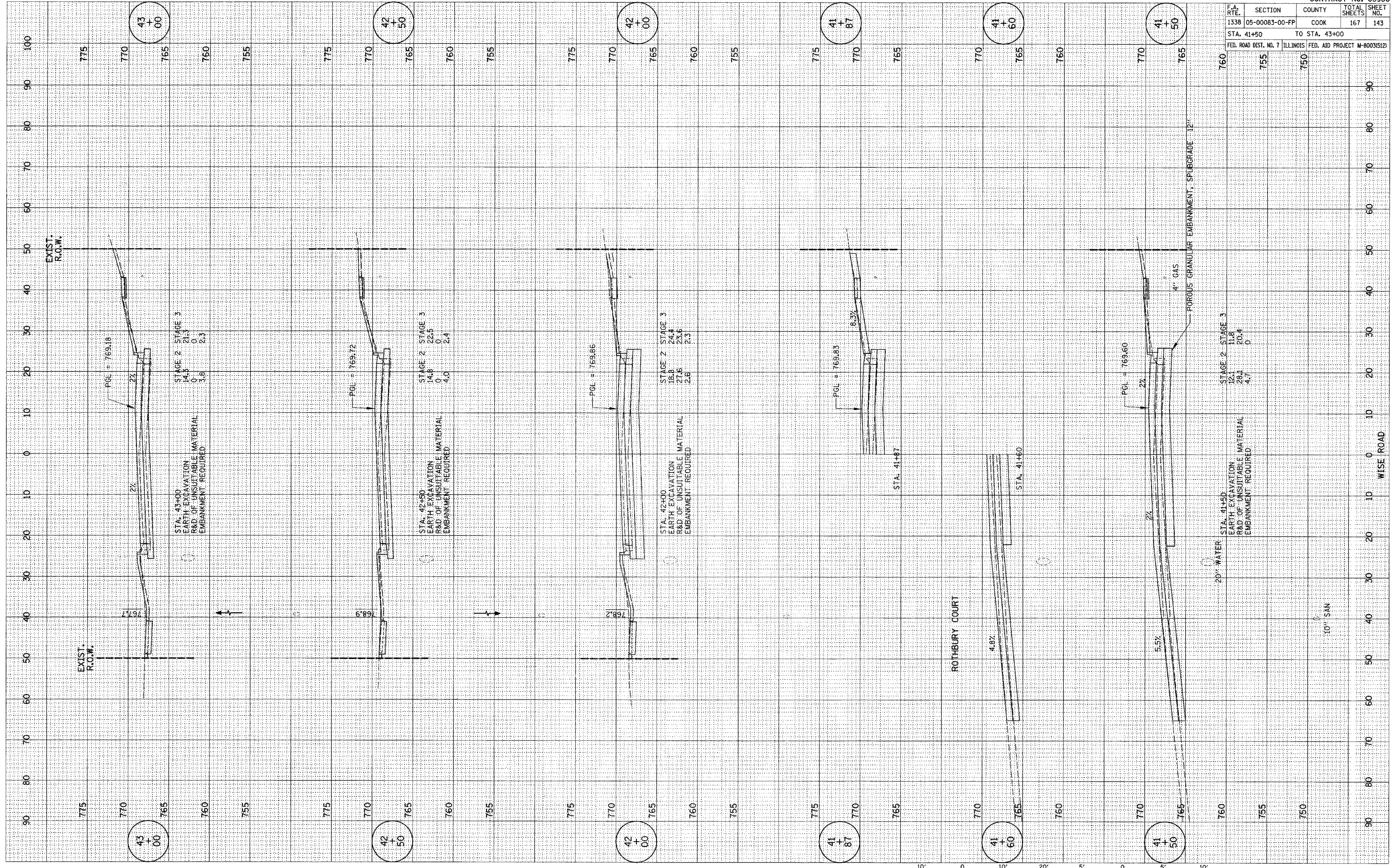


F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1338	05-00083-00-FP	COOK	167	143
STA. 41+50		TO STA. 43+00		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT M-800315121		

FINAL SURVEY	BY	DATE
NOTE BOOK		
AREAS CHECKED		
NO.		

ORIGINAL SURVEY	BY	DATE
NOTE BOOK		
AREAS CHECKED		
NO.		

PLOT DATE = **DATE**
 FILE NAME = **FILE**
 PLOT SCALE = **SCALE**
 REFERENCE = **REF**



WISE ROAD

STA. 41+50 TO STA. 43+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1338	05-00083-00-FP	COOK	167	144

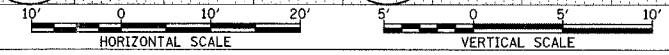
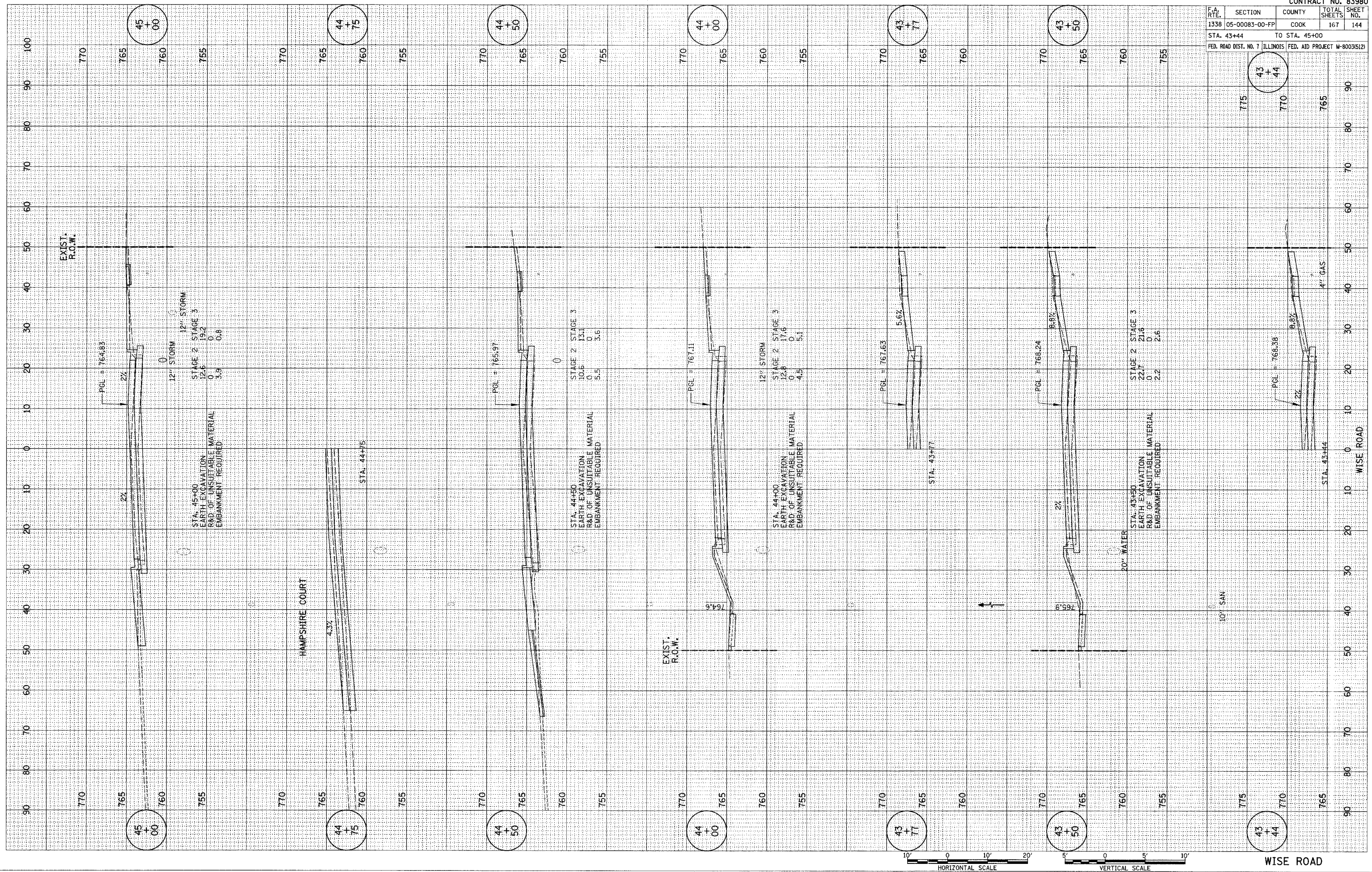
STA. 43+44 TO STA. 45+00

FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT W-8003(512)

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

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

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 PLOT SCALE = #SCALE#
 REFERENCE = #REF#

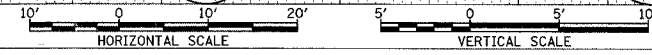
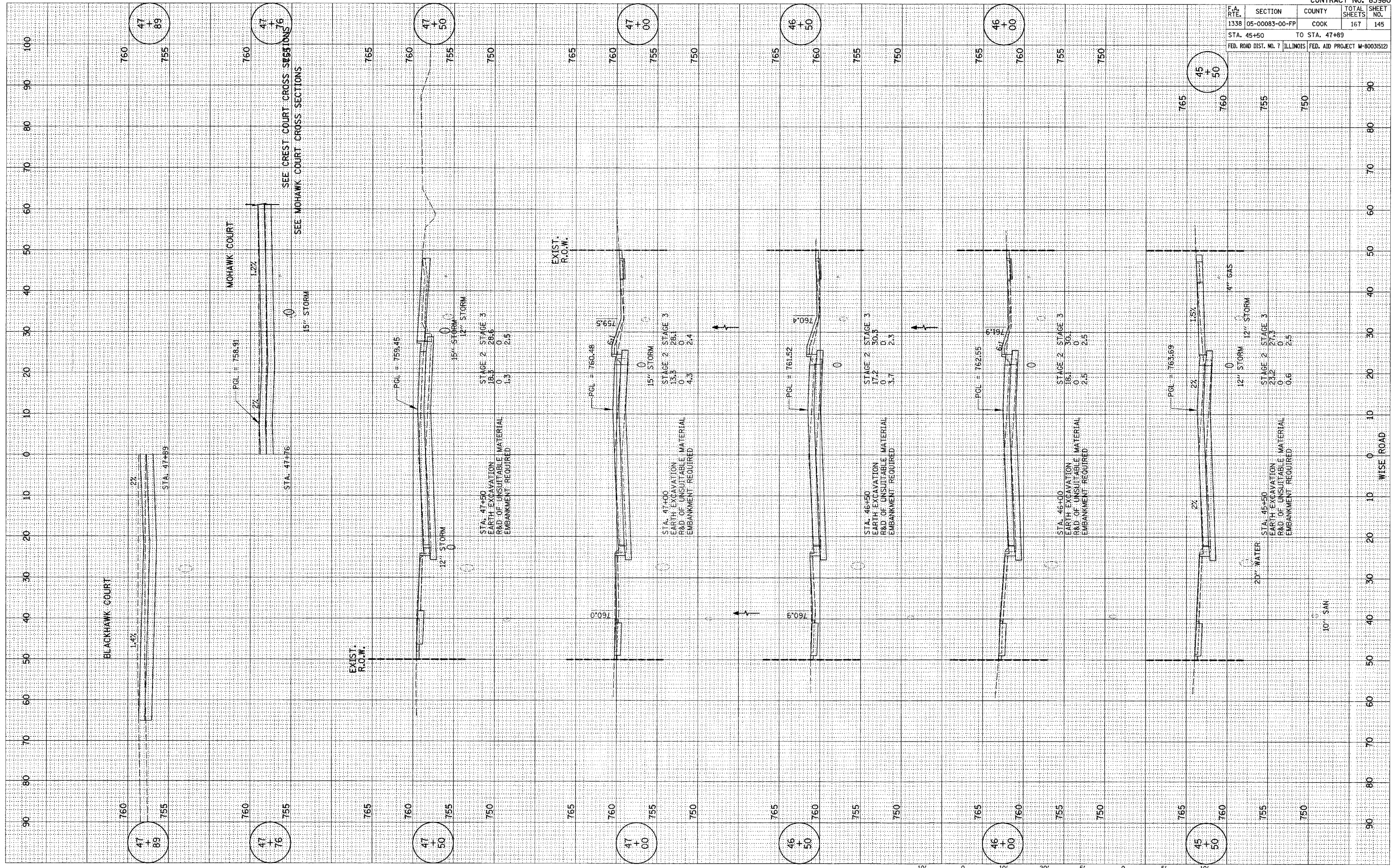


F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1338	05-00083-00-FP	COOK	167	145
STA. 45+50		TO STA. 47+89		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT M-8003(512)		

FINAL SURVEY	DATE
REVIEWED	BY
SCHEMATIC	
NOTED	
PLANNED	
DESIGNED	
CHECKED	
APPROVED	

ORIGINAL SURVEY	DATE
REVIEWED	BY
SCHEMATIC	
NOTED	
PLANNED	
DESIGNED	
CHECKED	
APPROVED	

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 PLOT SCALE = #SCALE#
 REFERENCE = #REF#

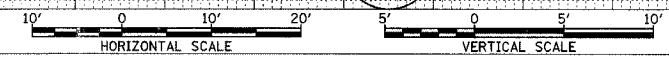
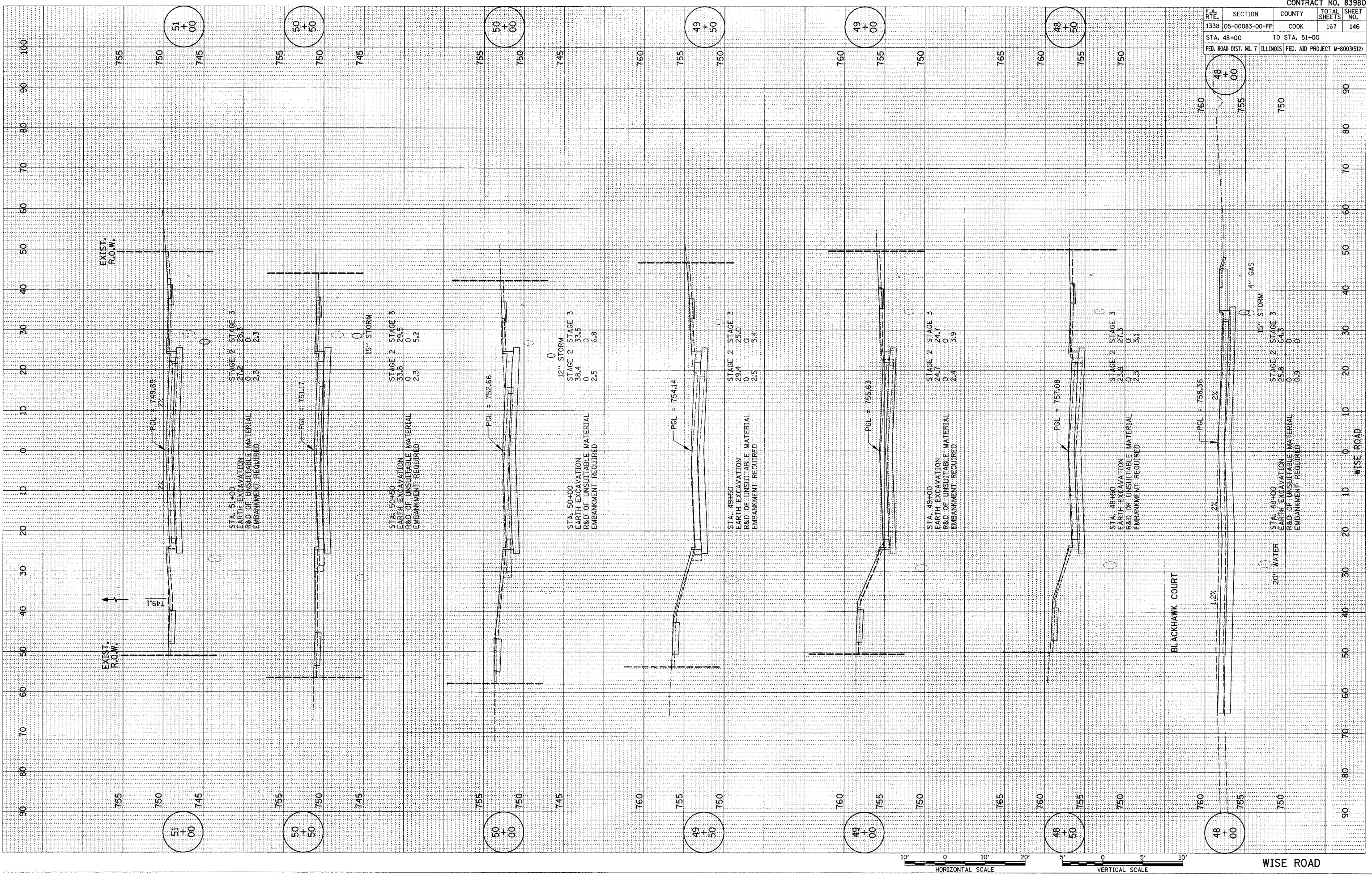


F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1338	05-00083-00-FP	COOK	167	146
STA. 48+00		TO STA. 51+00		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT W-8003(512)				

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

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

PLOT DATE = #DATE*
 PLOT SCALE = #SCALE*
 REFERENCE = #REF*



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1338	05-00083-00-FP	COOK	167	147

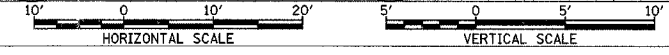
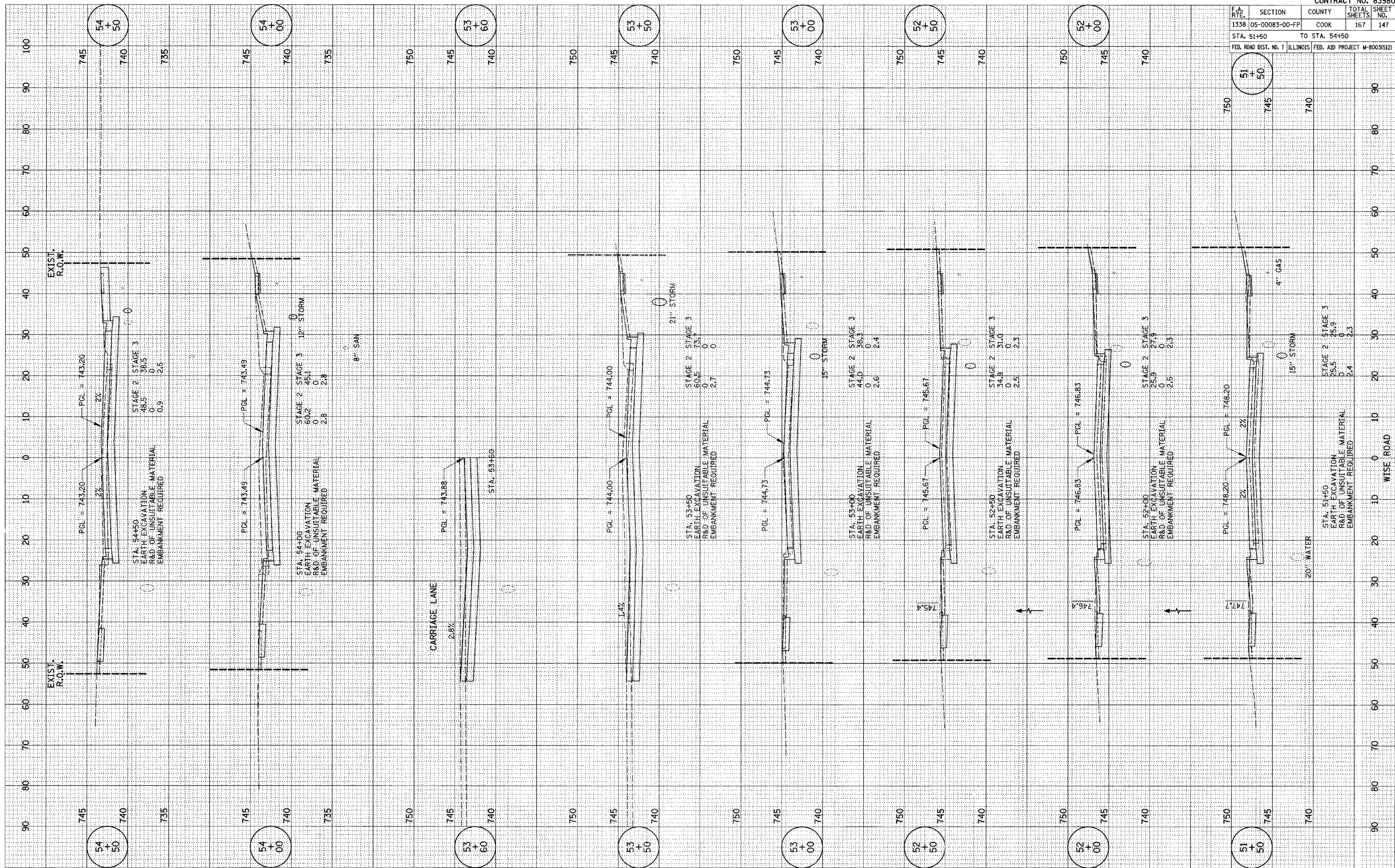
STA. 51+50 TO STA. 54+50

FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT W-8003(512)

FINAL SURVEY	DATE
SAVED	
PLOTTED	
TEMPERATURE	
AREAS CHECKED	
NO.	

ORIGINAL SURVEY	DATE
SAVED	
PLOTTED	
TEMPERATURE	
AREAS CHECKED	
NO.	

PLOT DATE: * DATE *
 FILE NAME: * FILE# *
 REFERENCE: * REF# *

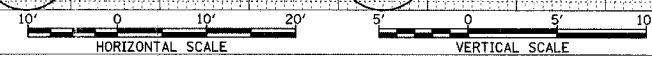
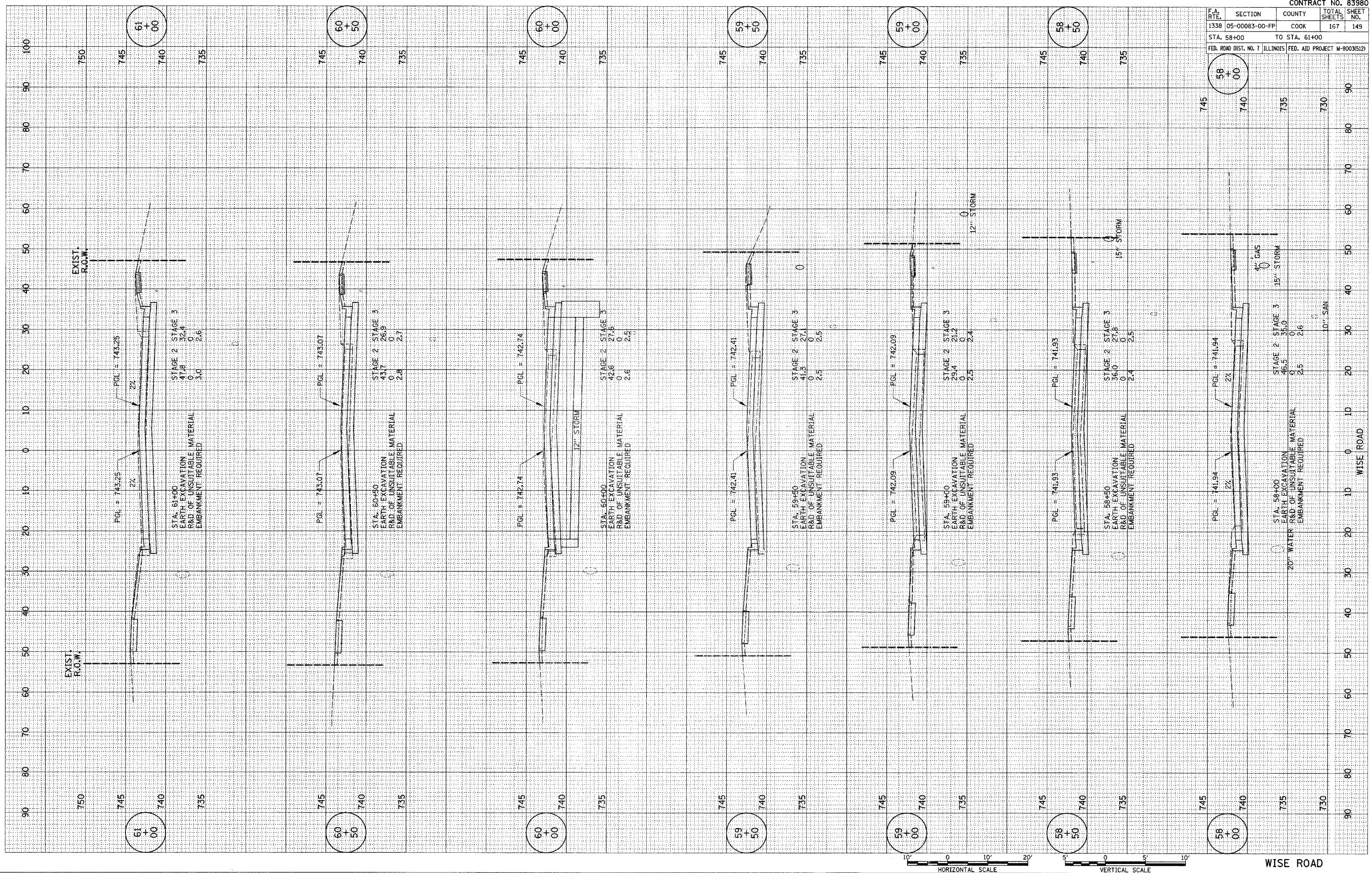


F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1338	05-00083-00-FP	COOK	167	149
STA. 58+00		TO STA. 61+00		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT M-80035121		

FINAL SURVEY	CONVERTED	DATE
NOTE BOOK	PLotted	
NO.	AREAS CHECKED	

ORIGINAL SURVEY	CONVERTED	DATE
NOTE BOOK	PLotted	
NO.	AREAS CHECKED	

PLOT DATE * * * DATE * * *
 FILE NAME * * * FILE * * *
 PLOT SCALE * * * SCALE * * *
 REFERENCE * * * REF * * *



WISE ROAD

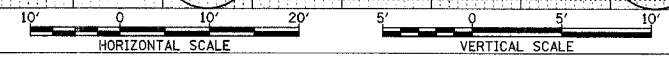
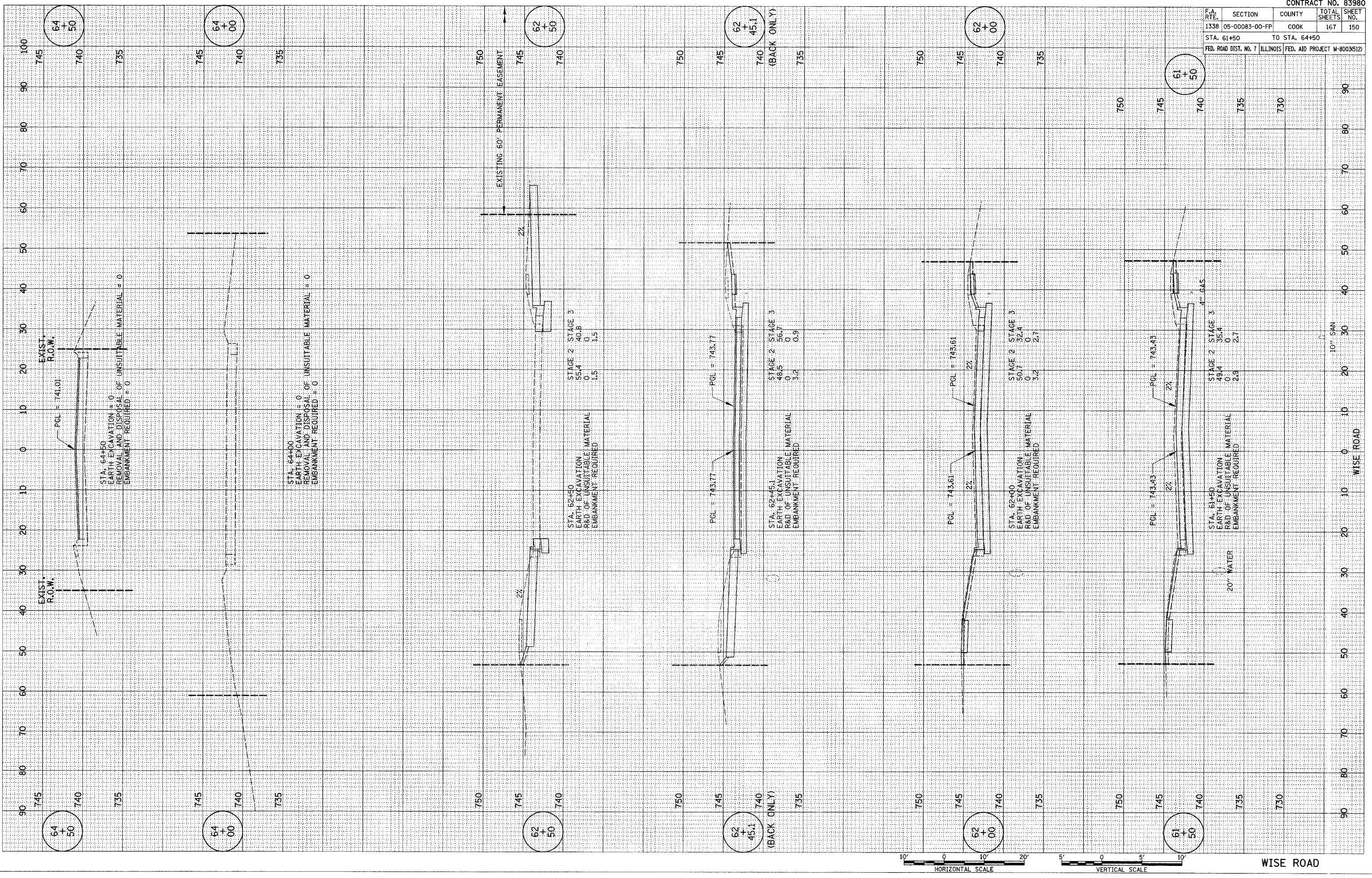
STA. 58+00 TO STA. 61+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1338	05-00083-00-FP	COOK	167	150
STA. 61+50		TO STA. 64+50		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT W-80035(12)				

NO.	AREAS CHECKED	NOTE BOOK	TEMPLATE	BY	DATE

NO.	AREAS CHECKED	NOTE BOOK	TEMPLATE	BY	DATE

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 REFERENCE = *REF*

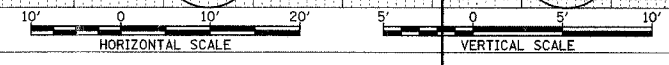
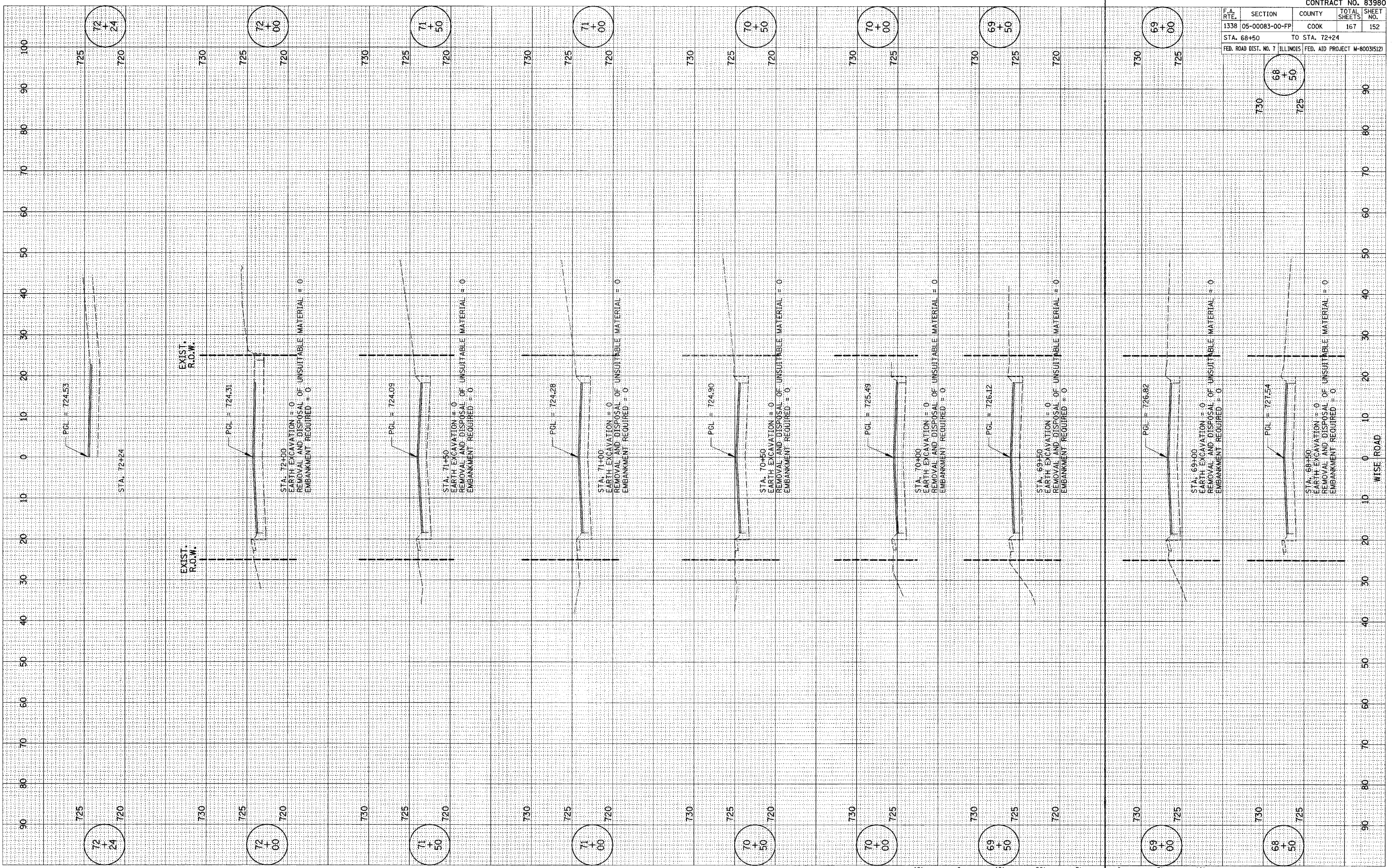


F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1338	05-00083-00-FP	COOK	167	152
STA. 68+50		TO STA. 72+24		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT W-8003(5)21				

DATE	BY	DATE
PLotted	BY	DATE
NOTE BOOK	NO.	AREAS CHECKED

DATE	BY	DATE
PLotted	BY	DATE
NOTE BOOK	NO.	AREAS CHECKED

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 PLOT SCALE = SCALE
 REFERENCE = REF

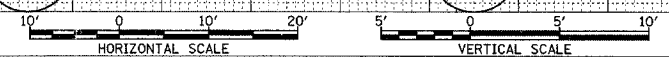
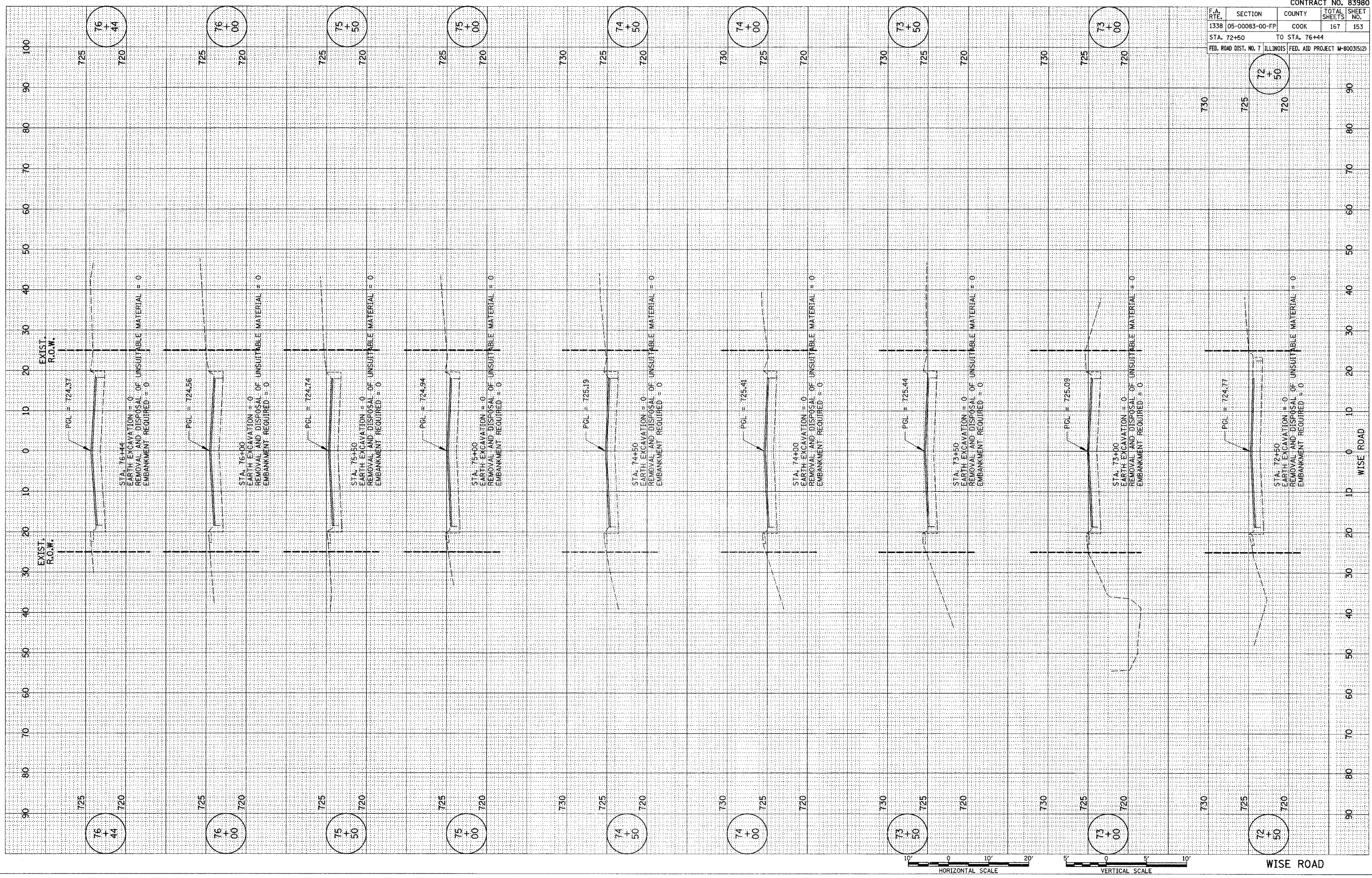


F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1338	05-00083-00-FP	COOK	167	153
STA. 72+50		TO STA. 76+44		
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT M-8003(S12)		

FINAL SURVEY	BY	DATE
NOTED		
PLOTTED		
TEMPLATE		
AREAS		
CHECKED		

ORIGINAL SURVEY	BY	DATE
NOTED		
PLOTTED		
TEMPLATE		
AREAS		
CHECKED		

PLOT DATE = #DATE#
 FILE NAME = #FILE#
 PLOT SCALE = #SCALE#
 REFERENCE = #REF#



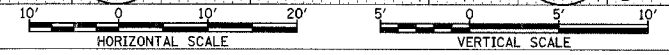
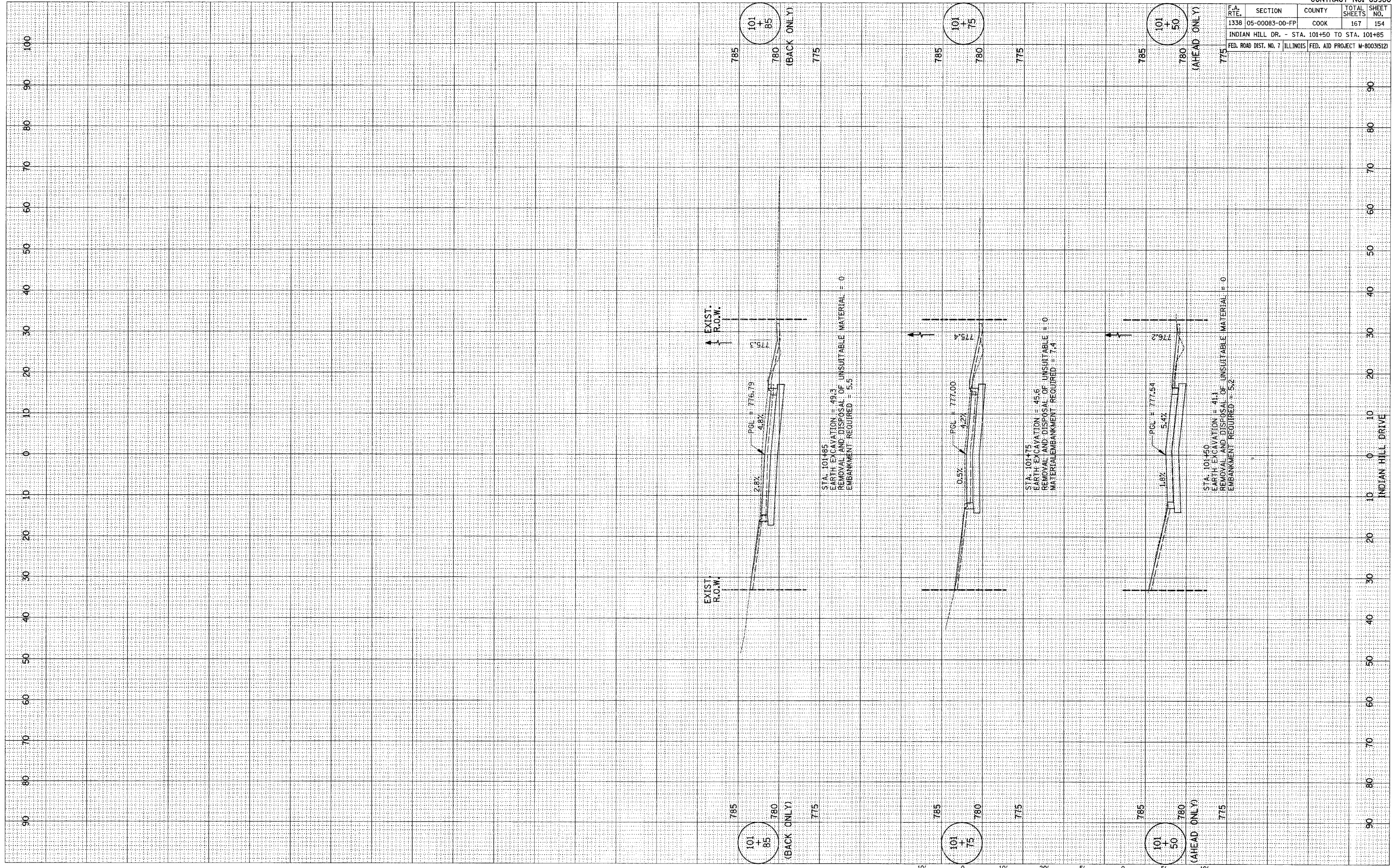
WISE ROAD

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1338	05-00083-00-PP	COOK	167	154
INDIAN HILL DR. - STA. 101+50 TO STA. 101+85				
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT M-8003512	

FINAL SURVEY	BY	DATE
NOTED		
PLOTTED		
TEMPLATE		
AREAS		
CHECKED		
NO.		

ORIGINAL SURVEY	BY	DATE
NOTED		
PLOTTED		
TEMPLATE		
AREAS		
CHECKED		
NO.		

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 SCALE = #SCALE#
 REFERENCE = #REF#

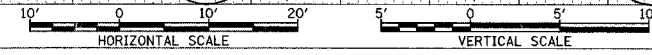
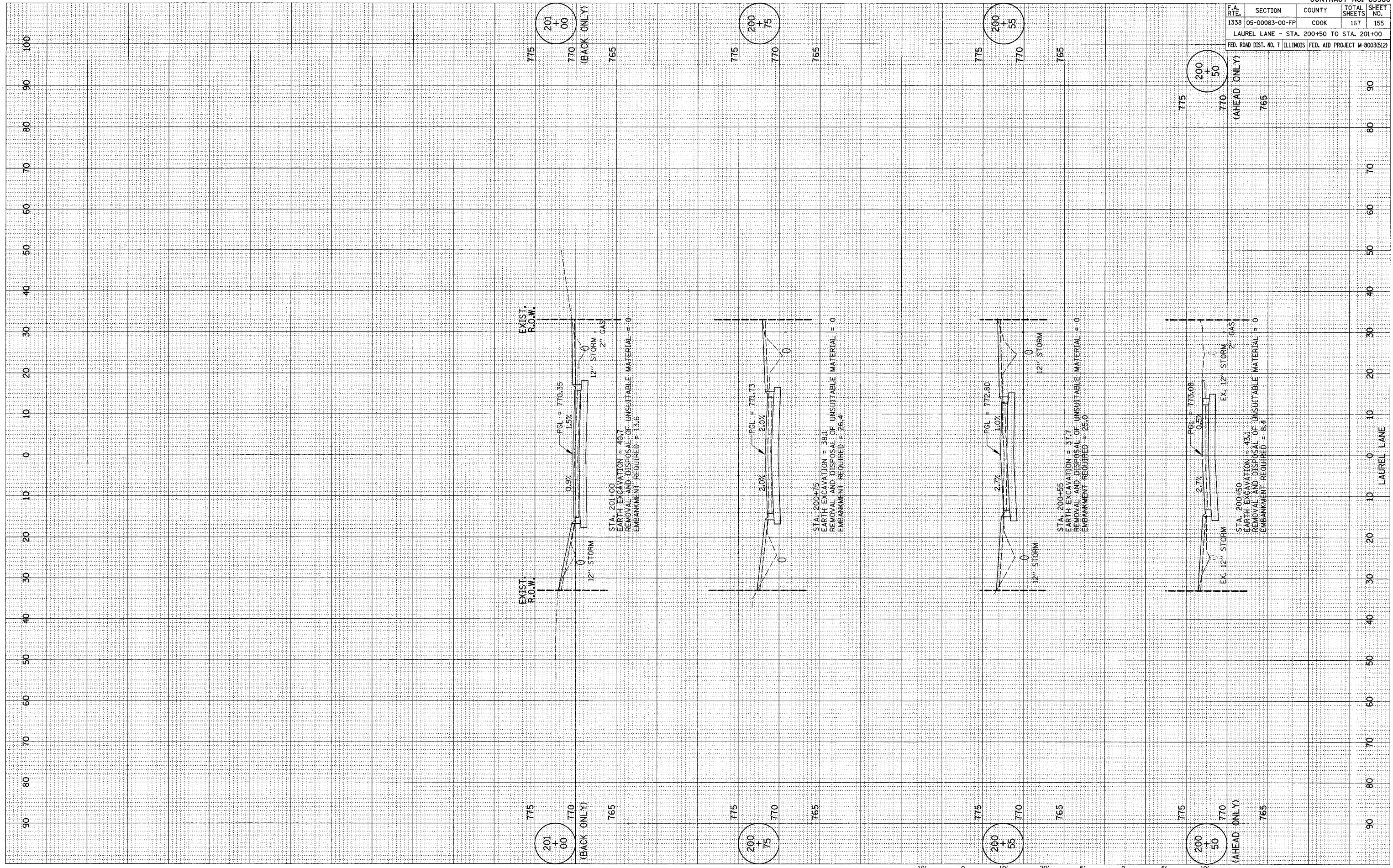


F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1338	05-00083-00-FP	COOK	167	155
LAUREL LANE - STA. 200+50 TO STA. 201+00				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT M-8003512				

FINAL SURVEY	DATE
BY	
SAVED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

ORIGINAL SURVEY	DATE
BY	
SAVED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

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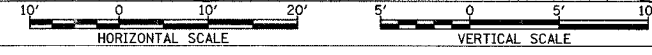
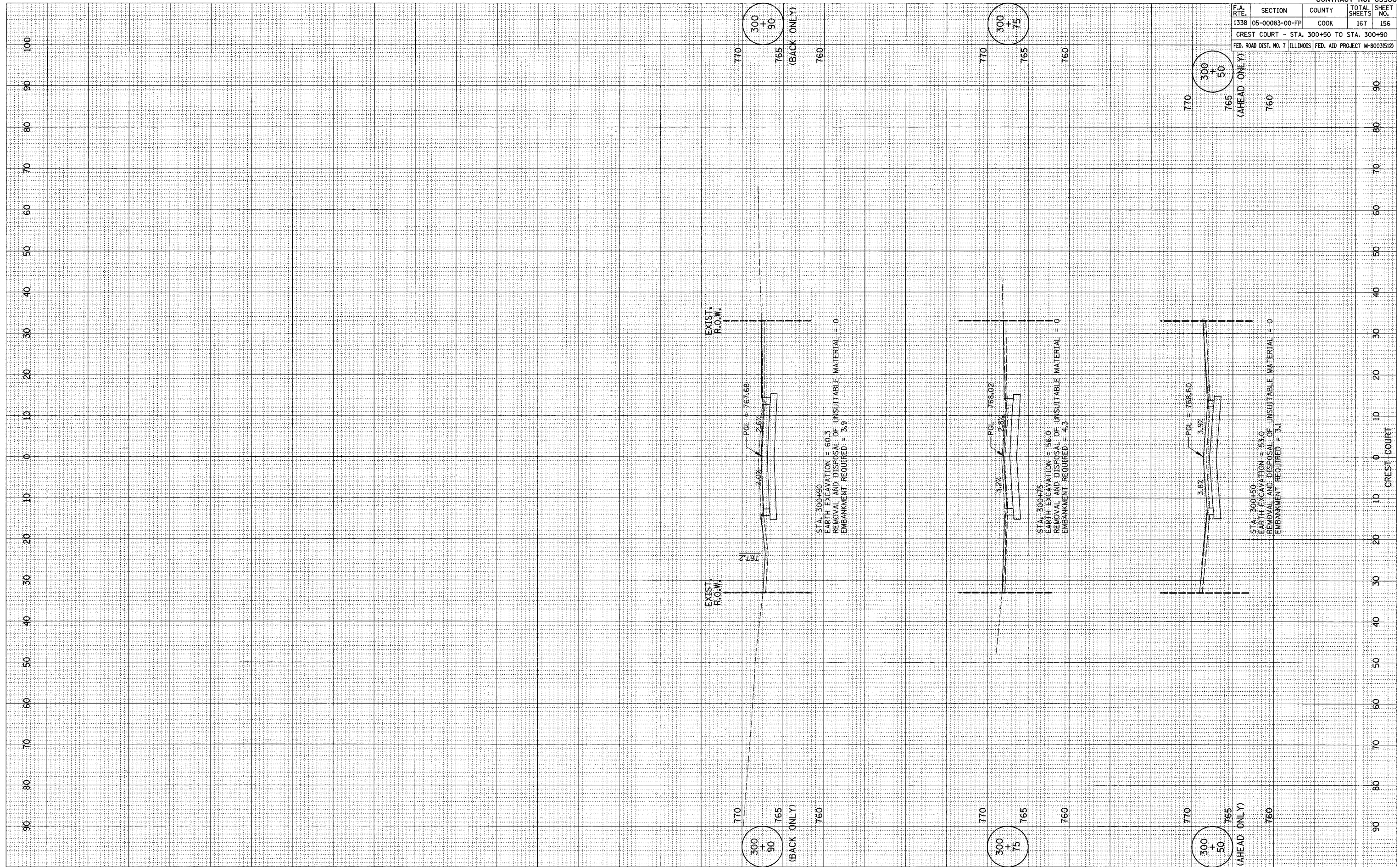


F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1338	05-0083-00-FP	COOK	167	156
CREST COURT - STA. 300+50 TO STA. 300+90				
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT M-8003(5)2	

FINAL SURVEY	DATE
NOTED	BY
TEMPLATE	
AREAS	
CHECKED	

ORIGINAL SURVEY	DATE
NOTED	BY
TEMPLATE	
AREAS	
CHECKED	

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 PLOT SCALE = #SCALE#
 REFERENCE = #REF#

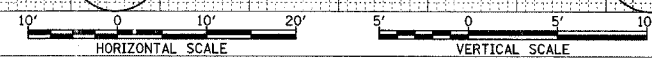
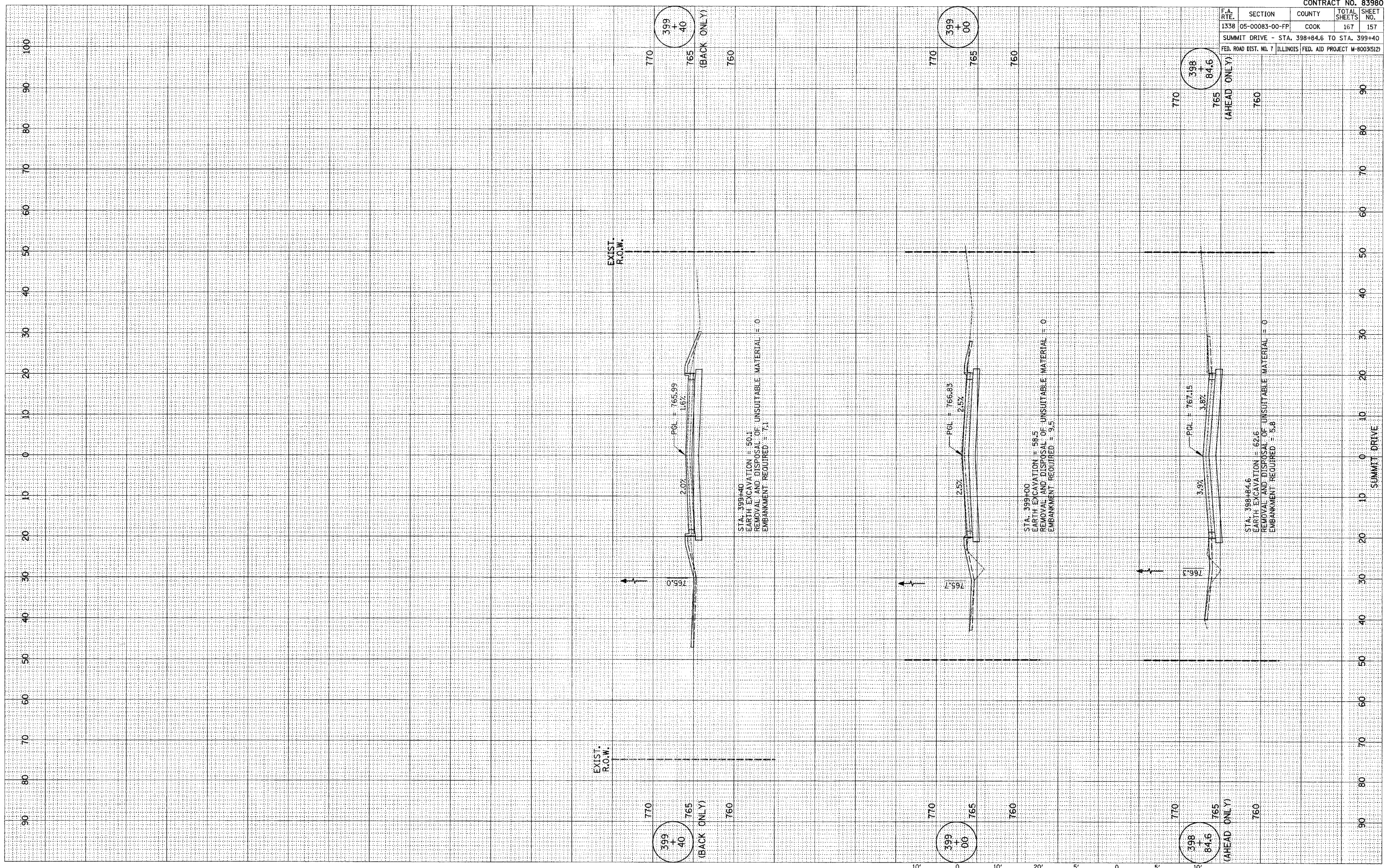


F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1338	05-00083-00-FP	COOK	167	157
SUMMIT DRIVE - STA. 398+84.6 TO STA. 399+40				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT M-80035(512)				

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

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

PLOT DATE = #DATE#
 FILE NAME = #FILE#
 REFERENCE = #REF#



SUMMIT DRIVE

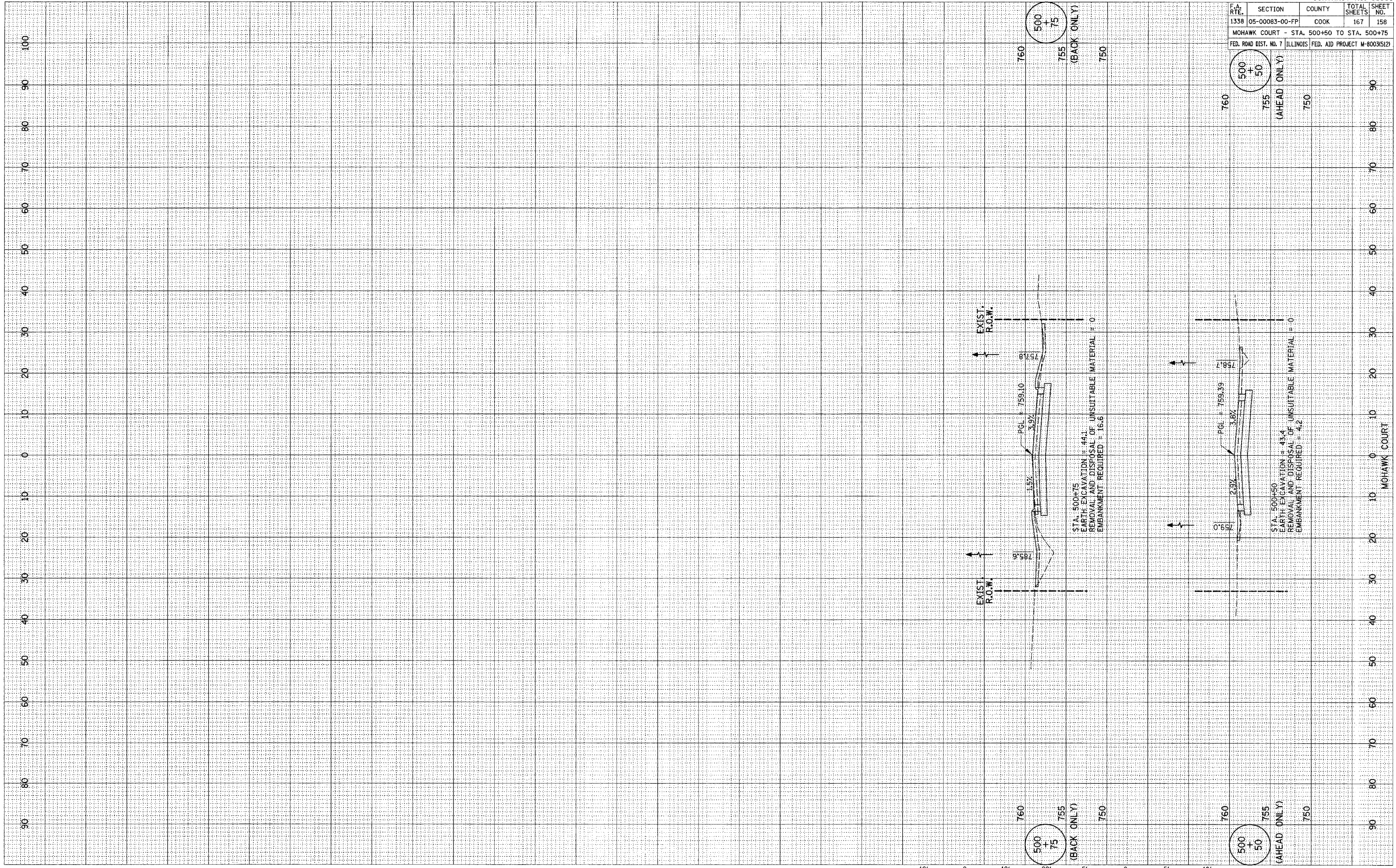
STA. 398+84.6 TO STA. 399+40

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1338	05-00083-00-FP	COOK	167	158
MOHAWK COURT - STA. 500+50 TO STA. 500+75				
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT M-80035121		

FINAL SURVEY	DATE
BY	
NO.	
NO.	

ORIGINAL SURVEY	DATE
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PLOT DATE = #DATE#
 FILE NAME = #FILE#
 PLOT SCALE = #SCALE#
 REFERENCE = #REF#



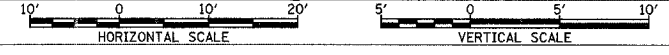
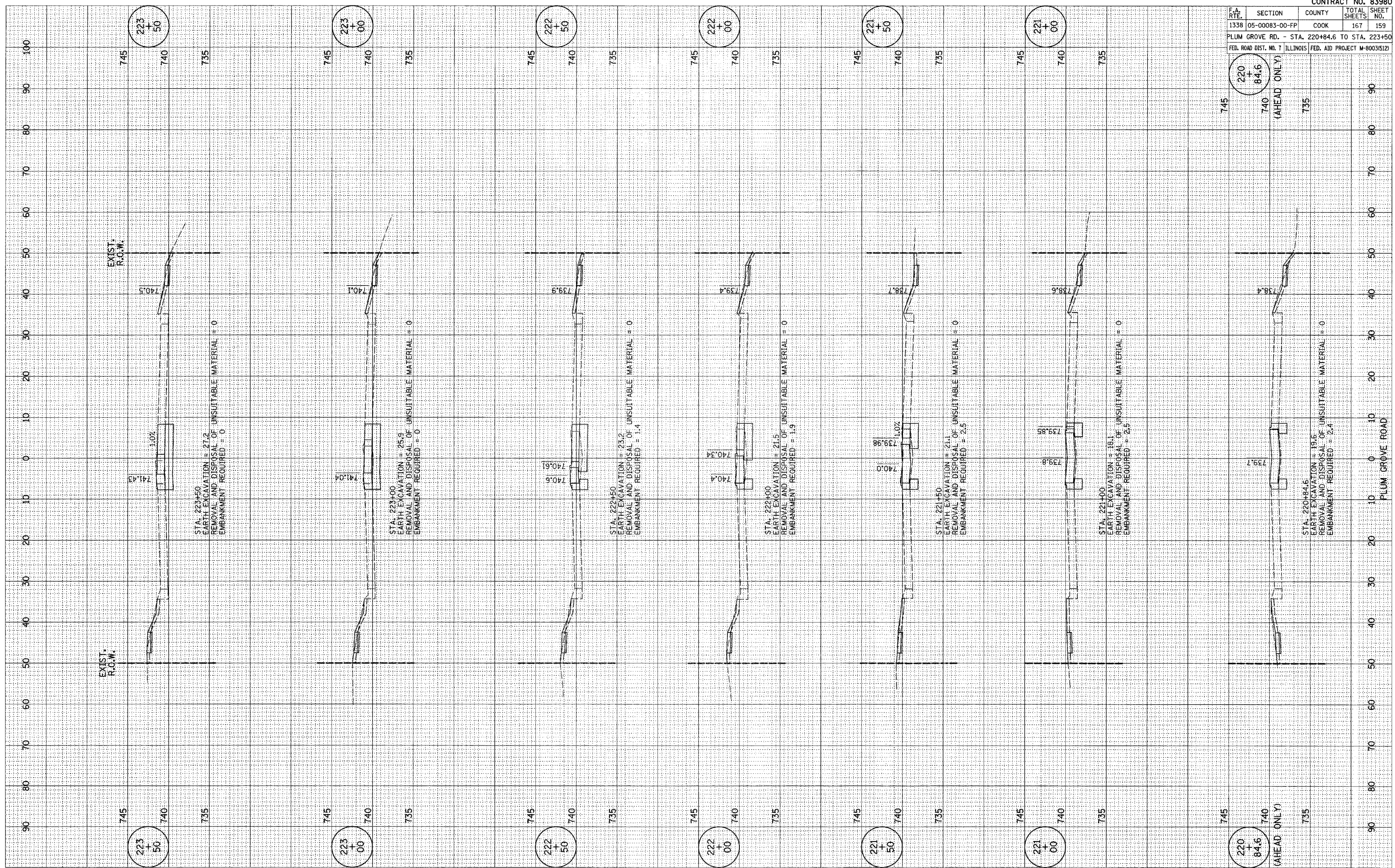
MOHAWK COURT
 STA. 500+50 TO STA. 500+75

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1338	05-00083-00-PP	COOK	167	159
PLUM GROVE RD. - STA. 220+84.6 TO STA. 223+50				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT M-8003(512)				

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

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

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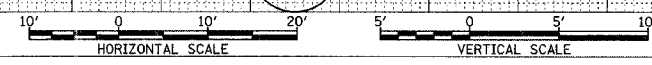
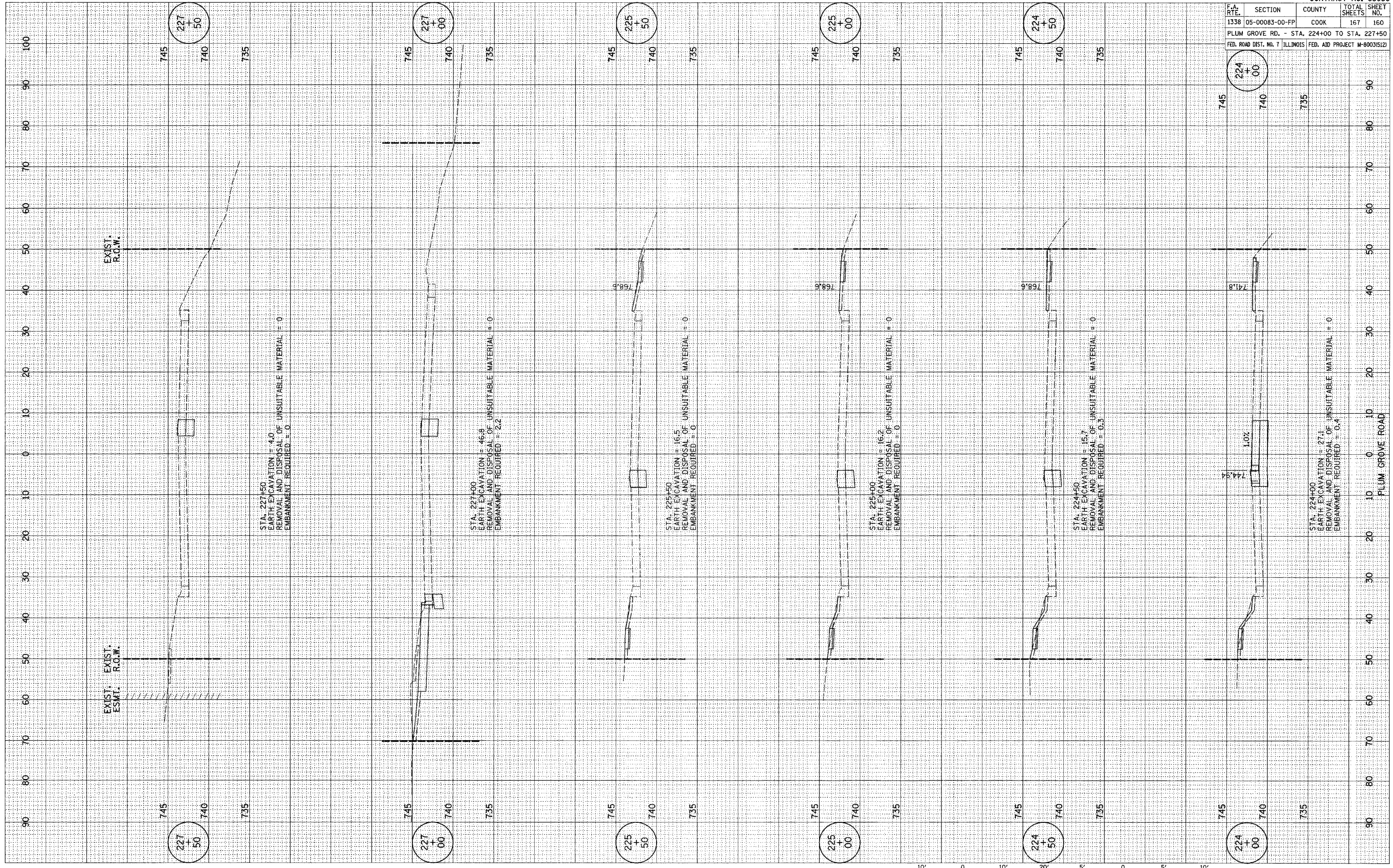


F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1338	05-00083-00-PP	COOK	167	160
PLUM GROVE RD. - STA. 224+00 TO STA. 227+50				
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT	M-800315121	

FINAL SURVEY	CONVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLE		
	AREAS CHECKED		

ORIGINAL SURVEY	CONVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLE		
	AREAS CHECKED		

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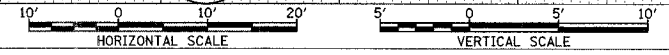
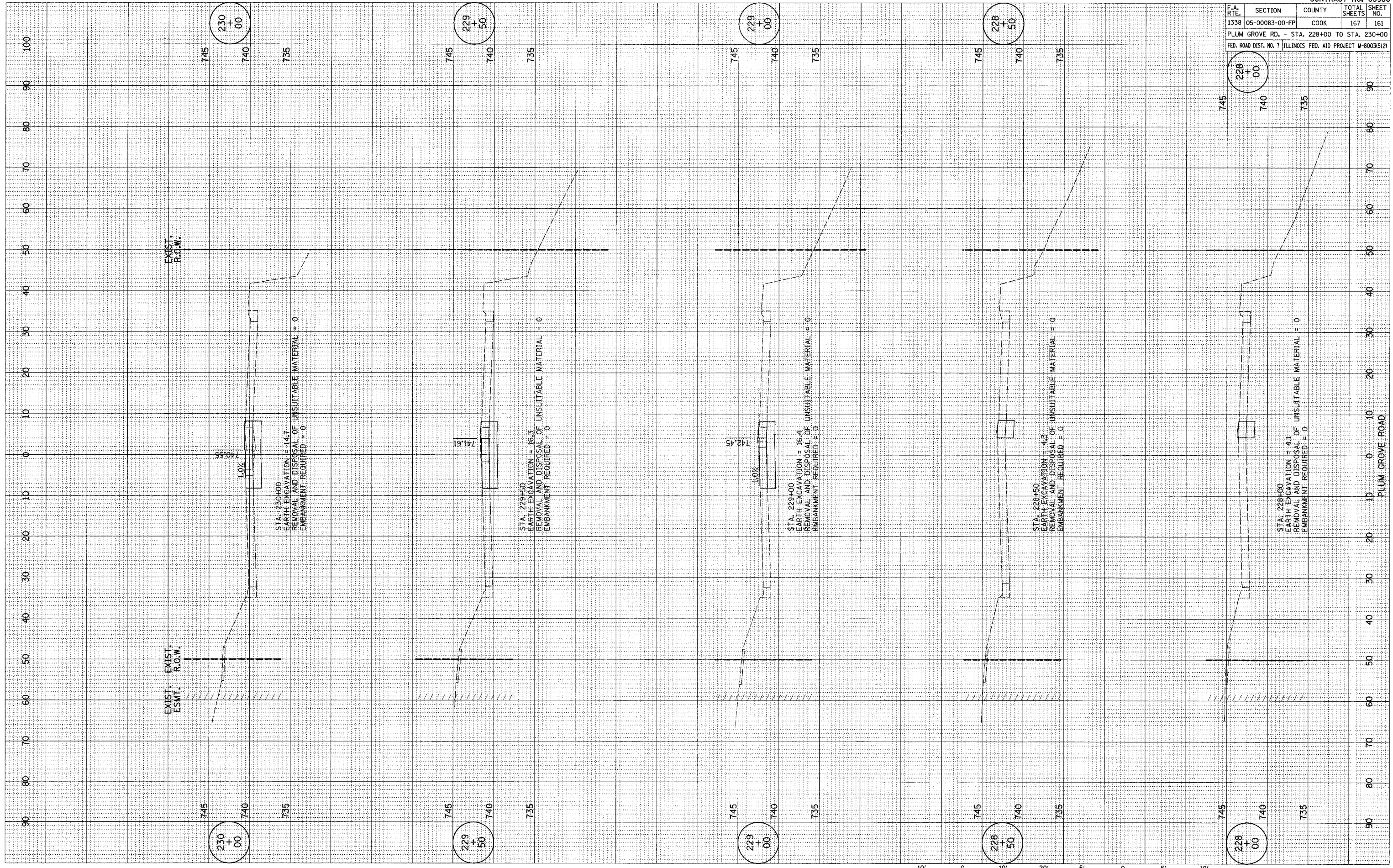


F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1338	05-00083-00-FP	COOK	167	161
PLUM GROVE RD. - STA. 228+00 TO STA. 230+00				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT W-80035(12)				

FINAL SURVEY	DATE
NO.	
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REVISIONS	
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ORIGINAL SURVEY	DATE
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 REFERENCE = #REF#

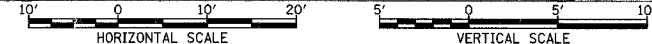
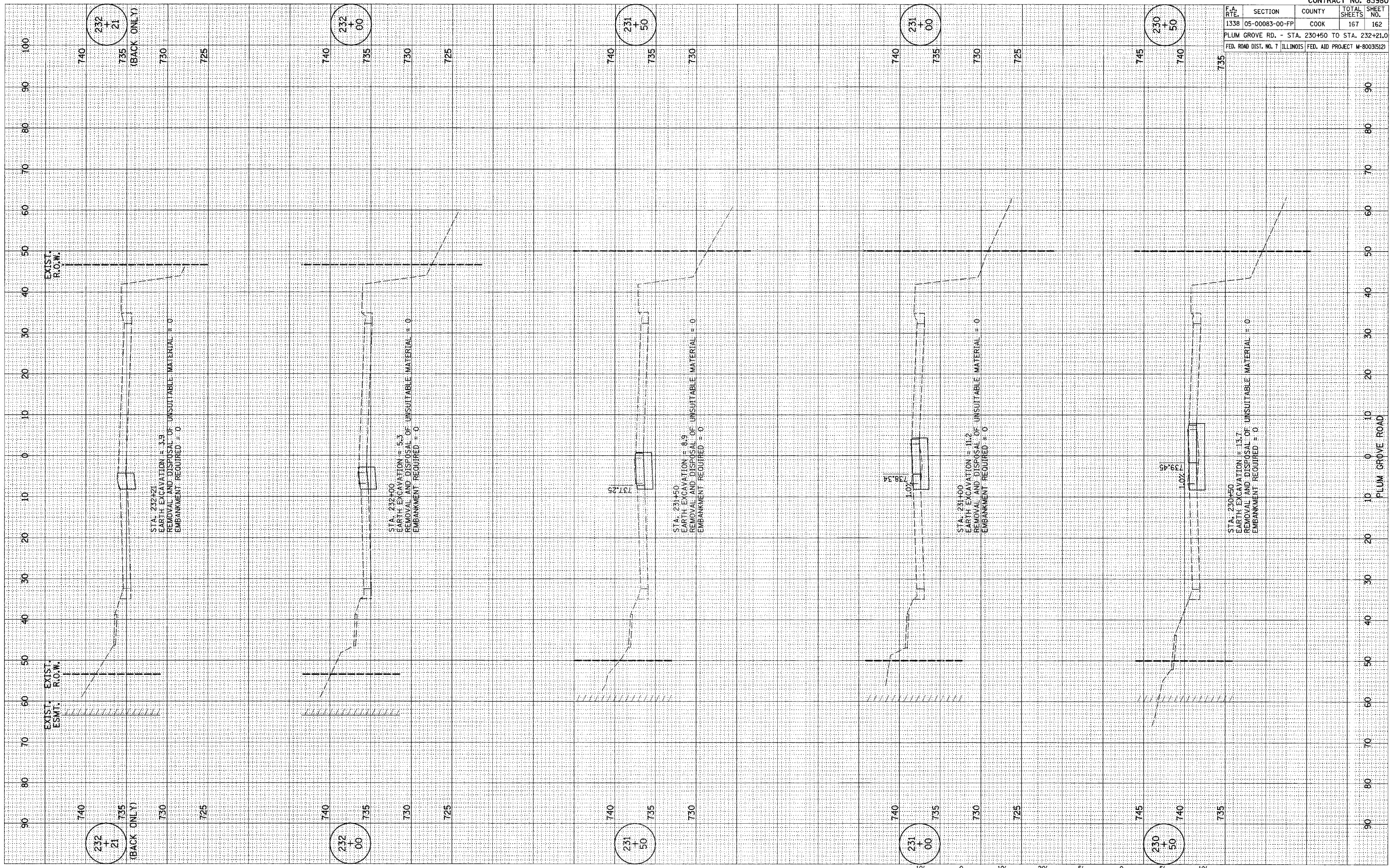


F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1338	05-00083-00-FP	COOK	167	162
PLUM GROVE RD. - STA. 230+50 TO STA. 232+21.0				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT M-8003(512)				

FINAL SURVEY	BY	DATE
NOTED		
PLOTTED		
TEMPLATE		
AREAS		
CHECKED		
NO.		

ORIGINAL SURVEY	BY	DATE
NOTED		
PLOTTED		
TEMPLATE		
AREAS		
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NO.		

PLOT DATE = #DATE#
 FILE NAME = #FILE#
 PLOT SCALE = #SCALE#
 REFERENCE = #REF#



F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1338	05-00083-00-FF	COOK	167	163
SUMMARY OF QUANTITIES				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT M-8003(512)				

AGI Job No. 03-136 (Wise)	BORING LOG NO. B-4		Sheet 1 of 1
CLIENT	Village of Schaumburg	PROJECT	Proposed Wise Road Improvements
STATION	11+00	OFFSET (ft)	10, LL
LOCATION	Roselle Road to Plum Grove Road		
COUNTY:	Cook	CITY & STATE:	Schaumburg, Illinois
SURFACE ELEVATION	Datum		
14.5' Asphalt over stone base			
DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)
13	1	SS	95 20
15	SILTY CLAY LOAM, tr. gravel, brown-gray, very stiff to hard		
13	2	SS	96 19
5			
21	3	SS	80 16
5			
17	4	SS	100 18
10	End Of Boring		
STARTED	4-24-04	FINISHED	4-24-04
DRILL CO.	Stryker	DRILL RIG	D-50
DRILLER	Fred	ASST DRILLER	NA
ENG/GEOL.	AB	APPROVED	SG

AGI Job No. 03-136 (Wise)	BORING LOG NO. B-5		Sheet 1 of 1
CLIENT	Village of Schaumburg	PROJECT	Proposed Wise Road Improvements
STATION	14+00	OFFSET (ft)	4, Rt.
LOCATION	Roselle Road to Plum Grove Road		
COUNTY:	Cook	CITY & STATE:	Schaumburg, Illinois
SURFACE ELEVATION	Datum		
10' Asphalt over 4" stone base			
DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)
14	1	SS	58 36
12	FILL, organic clay, some sand & gravel, black		
21	SILTY CLAY, tr. sand & gravel, gray, hard		
13	2	SS	85 15
5			
24	3	SS	95 17
5			
25	4	SS	100 17
10	End Of Boring		
STARTED	4-24-04	FINISHED	4-24-04
DRILL CO.	Stryker	DRILL RIG	D-50
DRILLER	Fred	ASST DRILLER	NA
ENG/GEOL.	AB	APPROVED	SG

AGI Job No. 03-136 (Wise)	BORING LOG NO. B-6		Sheet 1 of 1
CLIENT	Village of Schaumburg	PROJECT	Proposed Wise Road Improvements
STATION	17+00	OFFSET (ft)	4, LL
LOCATION	Roselle Road to Plum Grove Road		
COUNTY:	Cook	CITY & STATE:	Schaumburg, Illinois
SURFACE ELEVATION	Datum		
6.5' Asphalt over stone base			
DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)
10	1	SS	90 26
12	FILL, silty clay loam with topsoil, dk. brown & black, hard		
12	CLAY LOAM, some organic, dk. gray, stiff		
5	2	SS	90 26
5			
6	3	SS	100 29
5			
7	4	SS	100 21
10	End Of Boring		
STARTED	4-24-04	FINISHED	4-24-04
DRILL CO.	Stryker	DRILL RIG	D-50
DRILLER	Fred	ASST DRILLER	NA
ENG/GEOL.	AB	APPROVED	SG

AGI Job No. 03-136 (Wise)	BORING LOG NO. B-7		Sheet 1 of 1
CLIENT	Village of Schaumburg	PROJECT	Proposed Wise Road Improvements
STATION	20+00	OFFSET (ft)	19, Rt.
LOCATION	Roselle Road to Plum Grove Road		
COUNTY:	Cook	CITY & STATE:	Schaumburg, Illinois
SURFACE ELEVATION	Datum		
5' Asphalt over 7" Concrete			
DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)
11	1	SS	100 26
12	FILL, silty clay loam with topsoil, dk. brown & black, very stiff		
2.5	CLAY LOAM, brown-gray, very stiff to hard, A-5 (10) LL=38%, PI=17%		
6	2	SS	90 20
5			
15	3	SS	90 21
5			
30	4	SS	100 17
10	End Of Boring		
STARTED	4-24-04	FINISHED	4-24-04
DRILL CO.	Stryker	DRILL RIG	D-50
DRILLER	Fred	ASST DRILLER	NA
ENG/GEOL.	AB	APPROVED	SG

AGI Job No. 03-136 (Wise)	BORING LOG NO. B-8		Sheet 1 of 1
CLIENT	Village of Schaumburg	PROJECT	Proposed Wise Road Improvements
STATION	23+00	OFFSET (ft)	19, Lt.
LOCATION	Roselle Road to Plum Grove Road		
COUNTY:	Cook	CITY & STATE:	Schaumburg, Illinois
SURFACE ELEVATION	Datum		
4.25' Asphalt over stone base			
DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)
13	1	SS	86 24
1.5	FILL, silty clay with organic topsoil, dk. brown & black, very stiff		
2.5	CLAY LOAM, tr. gravel, brown-gray, hard		
9	2	SS	85 16
5			
22	3	SS	95 18
5			
17	4	SS	100 20
10	End Of Boring		
STARTED	4-24-04	FINISHED	4-24-04
DRILL CO.	Stryker	DRILL RIG	D-50
DRILLER	Fred	ASST DRILLER	NA
ENG/GEOL.	AB	APPROVED	SG

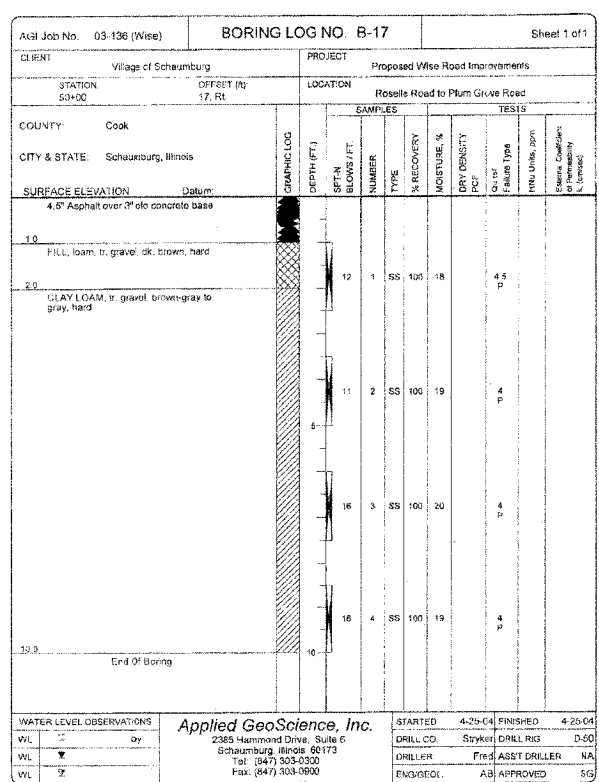
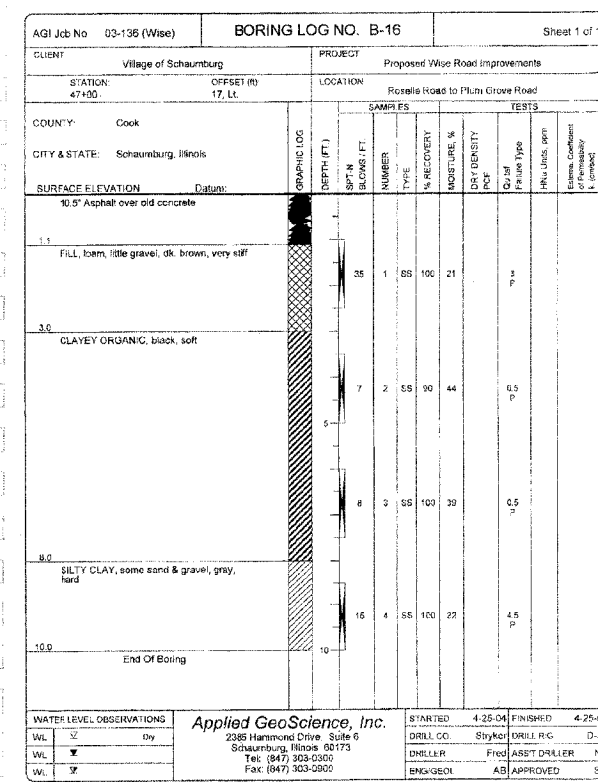
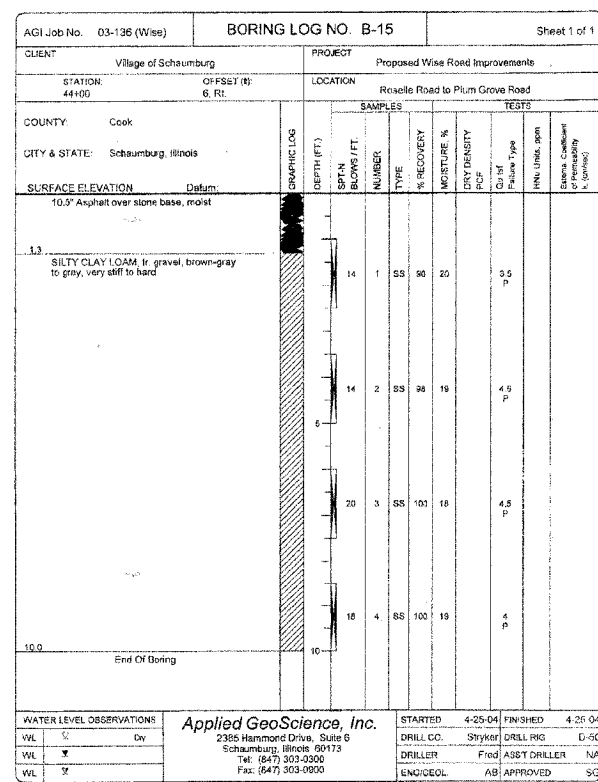
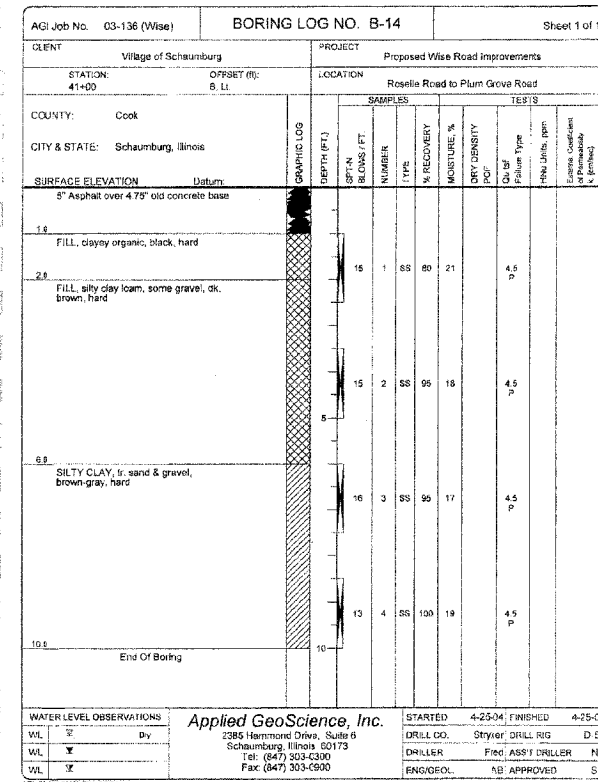
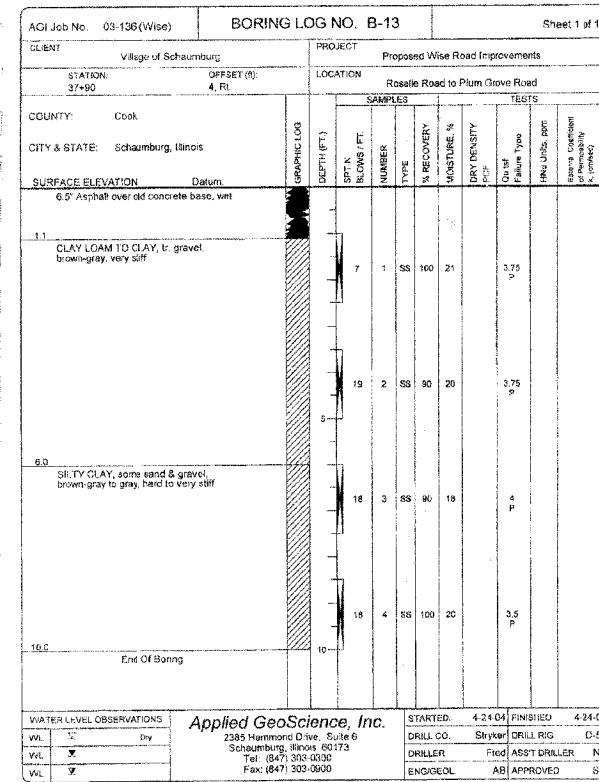
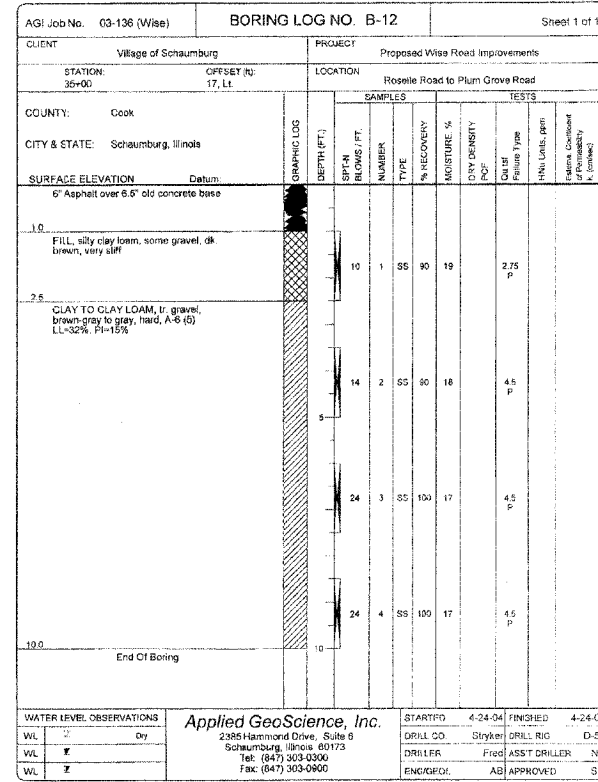
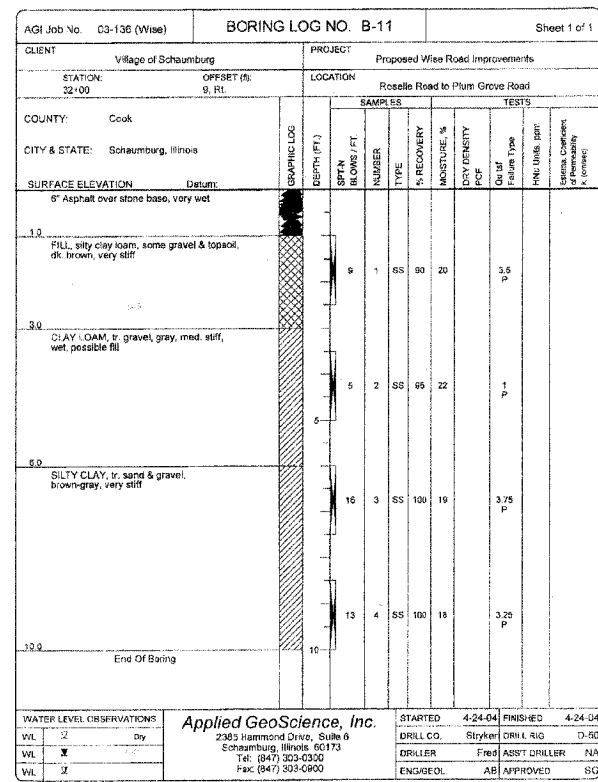
AGI Job No. 03-136 (Wise)	BORING LOG NO. B-9		Sheet 1 of 1
CLIENT	Village of Schaumburg	PROJECT	Proposed Wise Road Improvements
STATION	26+20	OFFSET (ft)	6, Rt.
LOCATION	Roselle Road to Plum Grove Road		
COUNTY:	Cook	CITY & STATE:	Schaumburg, Illinois
SURFACE ELEVATION	Datum		
4" Asphalt over gravel & clay base			
DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)
11	1	SS	67 22
1.5	FILL, loam with organic topsoil, dk. brown & black, hard to very stiff		
8	2	SS	85 23
5			
16	3	SS	100 18
5			
12	4	SS	100 17
10	End Of Boring		
STARTED	4-24-04	FINISHED	4-24-04
DRILL CO.	Stryker	DRILL RIG	D-50
DRILLER	Fred	ASST DRILLER	NA
ENG/GEOL.	AB	APPROVED	SG

AGI Job No. 03-136 (Wise)	BORING LOG NO. B-10		Sheet 1 of 1
CLIENT	Village of Schaumburg	PROJECT	Proposed Wise Road Improvements
STATION	29+00	OFFSET (ft)	4, Lt.
LOCATION	Roselle Road to Plum Grove Road		
COUNTY:	Cook	CITY & STATE:	Schaumburg, Illinois
SURFACE ELEVATION	Datum		
5" Asphalt over 5.5" old concrete base			
DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)
12	1	SS	93 22
1.0	FILL, silty clay with topsoil, dk. brown & black, very stiff		
2.5	SILTY CLAY LOAM, tr. gravel, brown-gray to gray, very stiff to hard		
12	2	SS	90 19
5			
13	3	SS	100 20
5			
14	4	SS	100 18
10	End Of Boring		
STARTED	4-24-04	FINISHED	4-24-04
DRILL CO.	Stryker	DRILL RIG	D-50
DRILLER	Fred	ASST DRILLER	NA
ENG/GEOL.	AB	APPROVED	SG

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
DATE 9/21/07		SOIL BORINGS
DRAWN BY DJK		CHECKED BY JRV

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1338	05-00083-00-FP	COOK	167	164

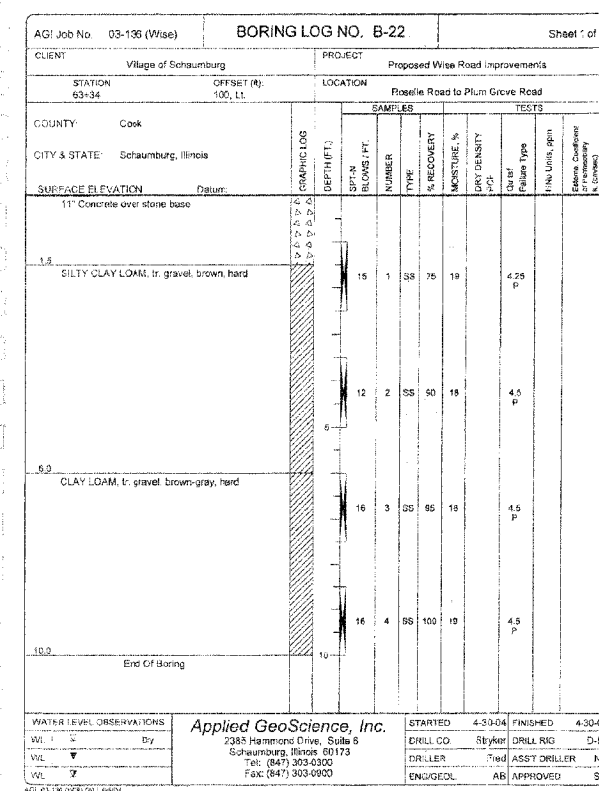
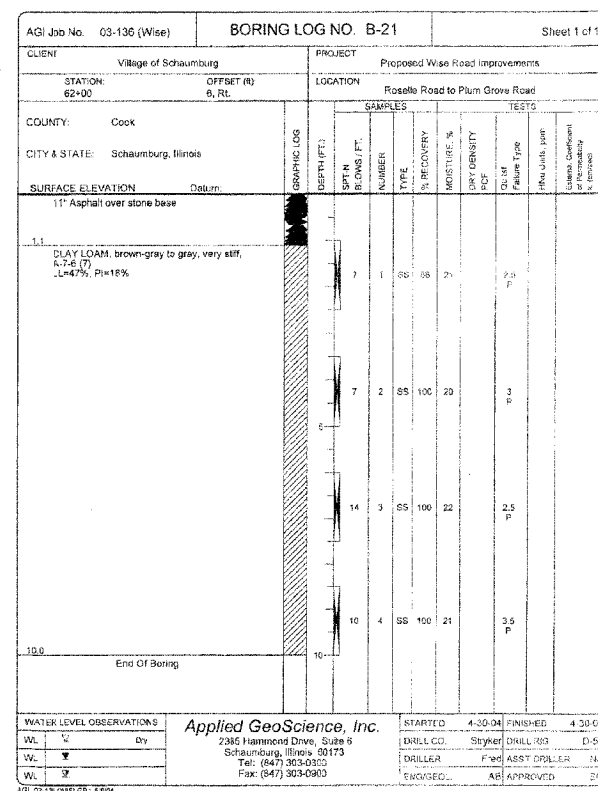
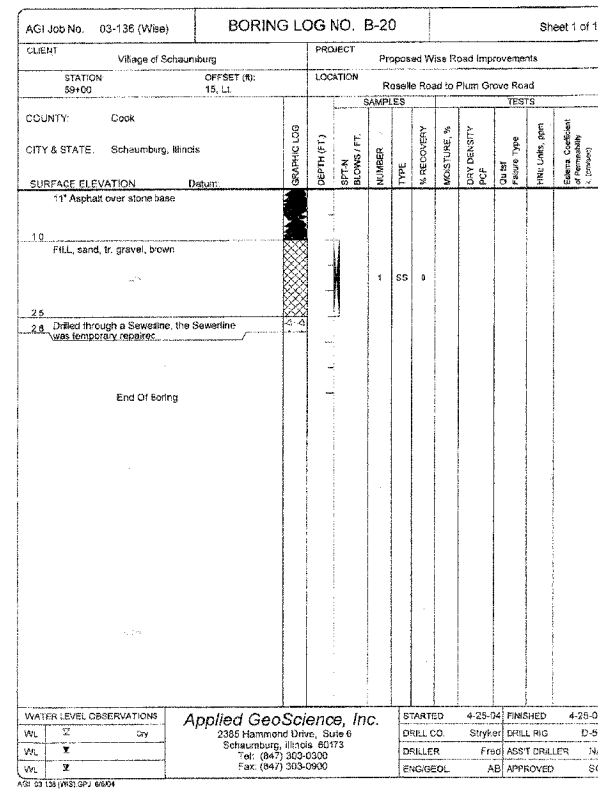
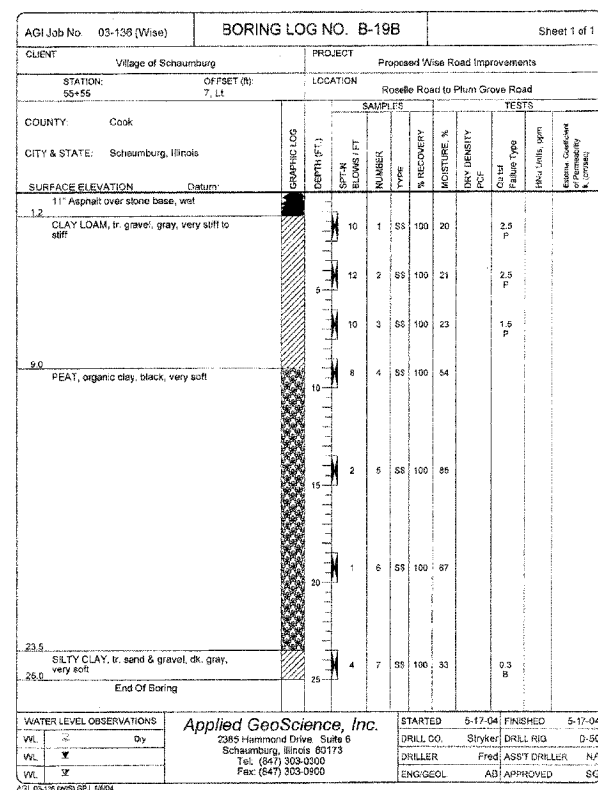
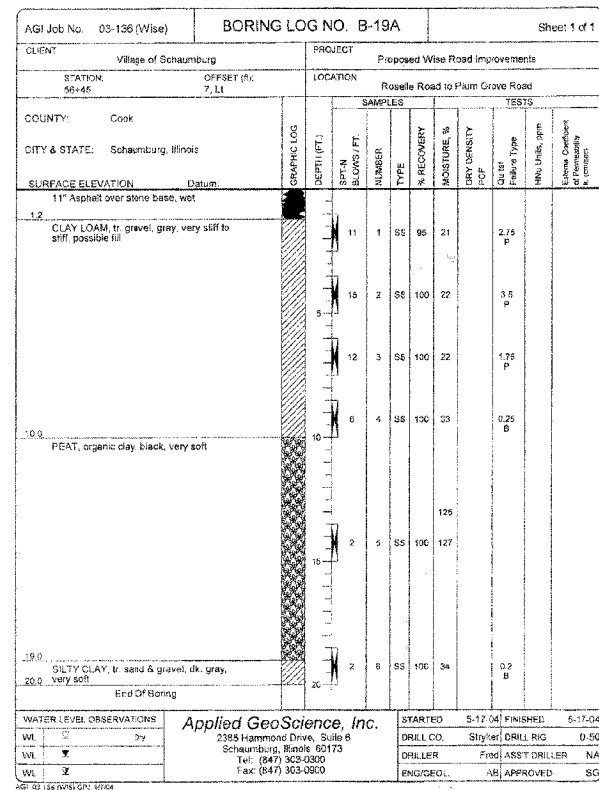
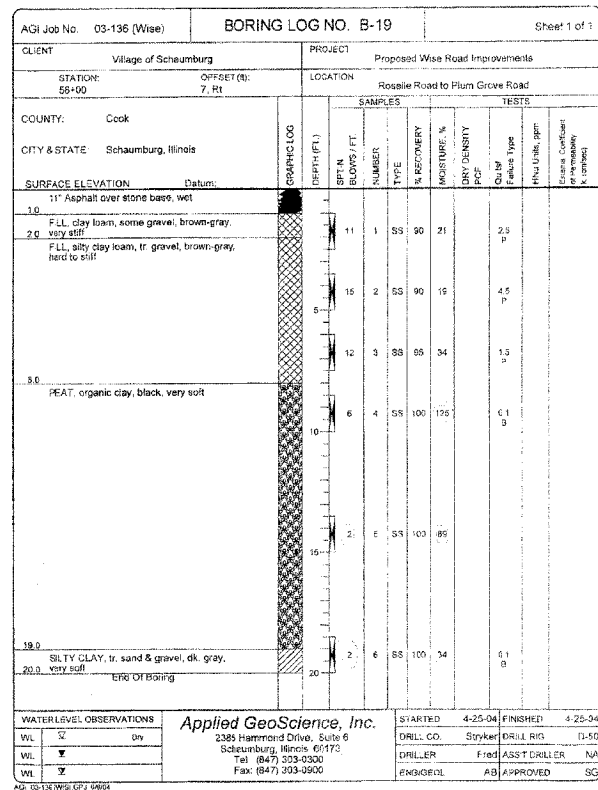
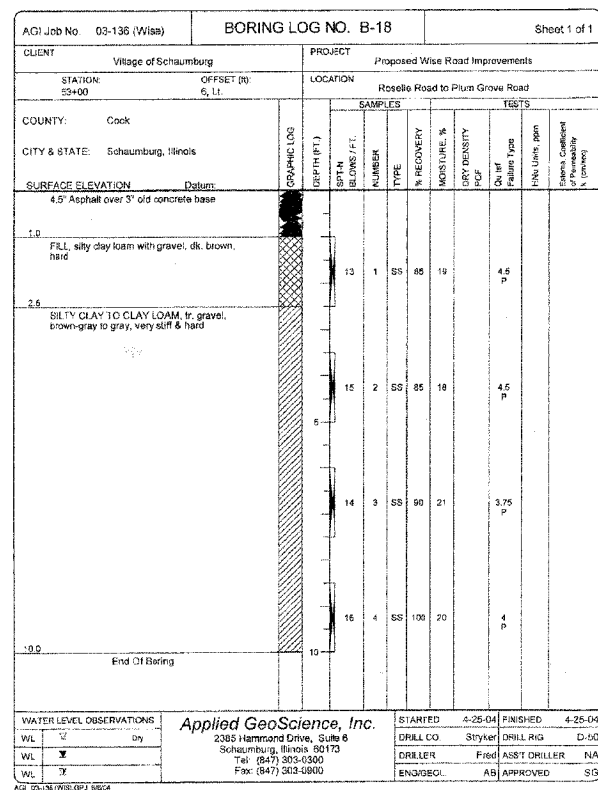
SUMMARY OF QUANTITIES	
FED. ROAD DIST. NO. 7	ILLINOIS FED. AID PROJECT M-8003(5)2



REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		SOIL BORINGS DRAWN BY DJK CHECKED BY JRV DATE 9/21/07

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1338	05-00083-00-FP	COOK	167	165

SUMMARY OF QUANTITIES
 FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT M-6003(512)



REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		SOIL BORINGS

DRAWN BY DJK
CHECKED BY JRV

DATE 9/21/07

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1338	05-00083-00-FR	COOK	167	167
SUMMARY OF QUANTITIES				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT M-8003(512)				

AGI Job No. 06-212		BORING LOG NO. SB-5		Sheet 1 of 1	
CLIENT: Civitech Engineering, Inc.		PROJECT: Wise Road Improvements, Village of Schaumburg			
STATION: 55+75	OFFSET (R): 40' R	LOCATION: Wise Road			
COUNTY: Schaumburg, Illinois		CITY & STATE: Schaumburg, Illinois			
SURFACE ELEVATION: Datum:		GRAPHIC LOG			
1.0	FILL - Clayey topsoil, black	DEPTH (FT.)	SPT-N BLOWS / FT.	NUMBER	TESTS
1.5	FILL - Silty clay, brown-gray, hard	12	1	SS 55 17	4
5.0	ORGANIC SILTY CLAY, black, very stiff, (CL)	8	2	SS 67 16	4.5
8.0	ORGANIC SILTY CLAY, brown-gray-black-mott, stiff, (CL)	11	3	SS 67 25	2
13.0	SILTY CLAY with moist sand seam at 15', brown-gray, hard, (CL)	5	4	SS 67 33	1.5
15.0	End Of Boring	10	5	SS 78 22	1.5
		10	6	SS 78 19	4.5
WATER LEVEL OBSERVATIONS		Applied GeoScience, Inc.		STARTED 5-31-07	FINISHED 5-31-07
WL 12	DRY	2385 Hammond Drive, Suite 6 Schaumburg, Illinois 60173		DRILL CO. WD	DRILL RIG 45-C
WL 15	AS	Tel: (847) 303-0300		DRILLER BH	ASST DRILLER
WL 16	AM	Fax: (847) 303-0900		ENG/GEOL MG	APPROVED AMM

AGI Job No. 06-212		BORING LOG NO. SB-6		Sheet 1 of 2	
CLIENT: Civitech Engineering, Inc.		PROJECT: Wise Road Improvements, Village of Schaumburg			
STATION: 55+60	OFFSET (R): 31' R	LOCATION: Wise Road			
COUNTY: Schaumburg, Illinois		CITY & STATE: Schaumburg, Illinois			
SURFACE ELEVATION: Datum:		GRAPHIC LOG			
3.0	FILL - 3" Black topsoil over silty clay with sand & gravel seam	DEPTH (FT.)	SPT-N BLOWS / FT.	NUMBER	TESTS
3.0	FILL - Silty clay, brown-gray, hard	8	1	SS 33 17	4.5
5.5	ORGANIC SILTY CLAY, black, trace mott, very stiff to stiff, moist to wet, (CH)	7	2	SS 44 17	4.5
10.0	PEAT, with organic silt, black-mott, (PT)	9	3	SS 33 32	2
10.0		5	4	SS 07 36	1
15.0		2	5	SS 78 41	
16.0	ORGANIC CLAYEY SILT, black-gray, wet, (ML-CL)	6	6	SS 63 115	
		2	7	SS 100 76	
WATER LEVEL OBSERVATIONS		Applied GeoScience, Inc.		STARTED 6-1-07	FINISHED 6-1-07
WL 10	WD	2385 Hammond Drive, Suite 6 Schaumburg, Illinois 60173		DRILL CO. WD	DRILL RIG 45-C
WL 16	AS	Tel: (847) 303-0300		DRILLER BH	ASST DRILLER
WL 17	AM	Fax: (847) 303-0900		ENG/GEOL MG	APPROVED AMM

AGI Job No. 06-212		BORING LOG NO. SB-6		Sheet 2 of 2	
CLIENT: Civitech Engineering, Inc.		PROJECT: Wise Road Improvements, Village of Schaumburg			
STATION: 55+60	OFFSET (R): 31' R	LOCATION: Wise Road			
COUNTY: Schaumburg, Illinois		CITY & STATE: Schaumburg, Illinois			
(continued)		GRAPHIC LOG			
25.0	SAND, trace clay & shale, medium dense, (SW)	DEPTH (FT.)	SPT-N BLOWS / FT.	NUMBER	TESTS
25.0		8	8	SS 100 40	
30.0		11	9	SS 78 17	
35.0	End Of Boring	13	10	SS 17 17	
WATER LEVEL OBSERVATIONS		Applied GeoScience, Inc.		STARTED 6-1-07	FINISHED 6-1-07
WL 10	WD	2385 Hammond Drive, Suite 6 Schaumburg, Illinois 60173		DRILL CO. WD	DRILL RIG 45-C
WL 16	AS	Tel: (847) 303-0300		DRILLER BH	ASST DRILLER
WL 17	AM	Fax: (847) 303-0900		ENG/GEOL MG	APPROVED AMM

AGI Job No. 06-212		BORING LOG NO. SB-7		Sheet 1 of 1	
CLIENT: Civitech Engineering, Inc.		PROJECT: Wise Road Improvements, Village of Schaumburg			
STATION: 57+75	OFFSET (R): 45' R	LOCATION: Wise Road			
COUNTY: Schaumburg, Illinois		CITY & STATE: Schaumburg, Illinois			
SURFACE ELEVATION: Datum:		GRAPHIC LOG			
1.0	FILL - Clayey topsoil, black	DEPTH (FT.)	SPT-N BLOWS / FT.	NUMBER	TESTS
1.0	FILL - Silty clay, brown-gray, hard	8	1	SS 67 16	4.5
5.5	ORGANIC SILTY CLAY, black, very stiff, (CL)	9	2	SS 78 17	4.5
8.0	SILTY CLAY, brown-gray trace brown, stiff, (CL)	9	3	SS 67 33	2
11.0	SILTY CLAY, gray, very stiff, (CL)	4	4	SS 67 33	1.5
13.0	SANDY SILT, gray, loose, moist, (ML-SP)	7	5	SS 67 24	3
15.0	End Of Boring	5	6	SS 03 19	
WATER LEVEL OBSERVATIONS		Applied GeoScience, Inc.		STARTED 5-1-07	FINISHED 6-1-07
WL 12	DRY	2385 Hammond Drive, Suite 6 Schaumburg, Illinois 60173		DRILL CO. WD	DRILL RIG 45-C
WL 15	AS	Tel: (847) 303-0300		DRILLER BH	ASST DRILLER
WL 16	AM	Fax: (847) 303-0900		ENG/GEOL MG	APPROVED AMM

AGI Job No. 06-212		BORING LOG NO. SB-8		Sheet 1 of 1	
CLIENT: Civitech Engineering, Inc.		PROJECT: Wise Road Improvements, Village of Schaumburg			
STATION: 57+25	OFFSET (R): 37' R	LOCATION: Wise Road			
COUNTY: Schaumburg, Illinois		CITY & STATE: Schaumburg, Illinois			
SURFACE ELEVATION: Datum:		GRAPHIC LOG			
1.0	FILL - 6" Black topsoil with silty clay, hard	DEPTH (FT.)	SPT-N BLOWS / FT.	NUMBER	TESTS
1.0	FILL - Silty clay, brown-gray, hard	6	1	SS 67 17	4
5.5	ORGANIC SILTY CLAY, black, stiff, (CL)	7	2	SS 67 17	4
8.0	SILTY CLAY, brown-gray trace brown, stiff, (CL)	7	3	SS 56 37	1.5
13.0	SILTY CLAY, gray, very stiff, (CL)	3	4	SS 78 46	0.5
15.0	End Of Boring	4	5	SS 67 24	
		10	6	SS 78 22	2.25
WATER LEVEL OBSERVATIONS		Applied GeoScience, Inc.		STARTED 5-1-07	FINISHED 6-1-07
WL 11	WD	2385 Hammond Drive, Suite 6 Schaumburg, Illinois 60173		DRILL CO. WD	DRILL RIG 45-C
WL 10.5	AS	Tel: (847) 303-0300		DRILLER BH	ASST DRILLER
WL 17	AM	Fax: (847) 303-0900		ENG/GEOL MG	APPROVED AMM

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	

SOIL BORINGS

DRAWN BY DJK
CHECKED BY JRV

DATE 9/21/07