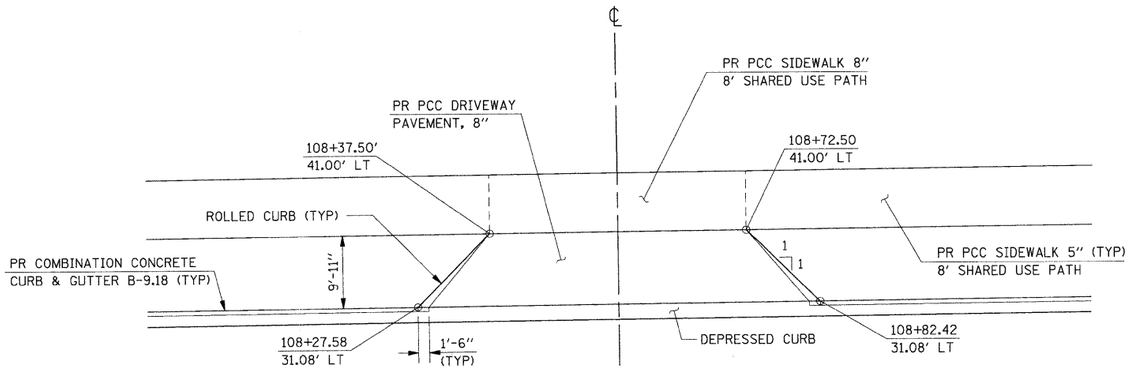
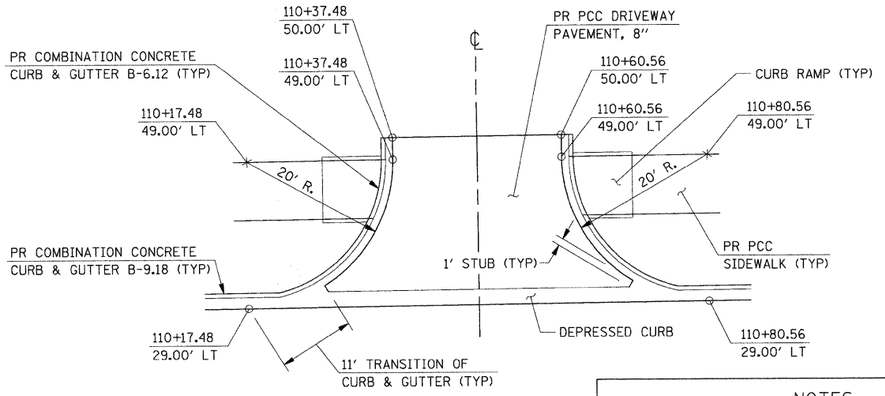
CONTRACT No. 63093

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1578	*	WILL	155	101
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* 06-00046-00-PV



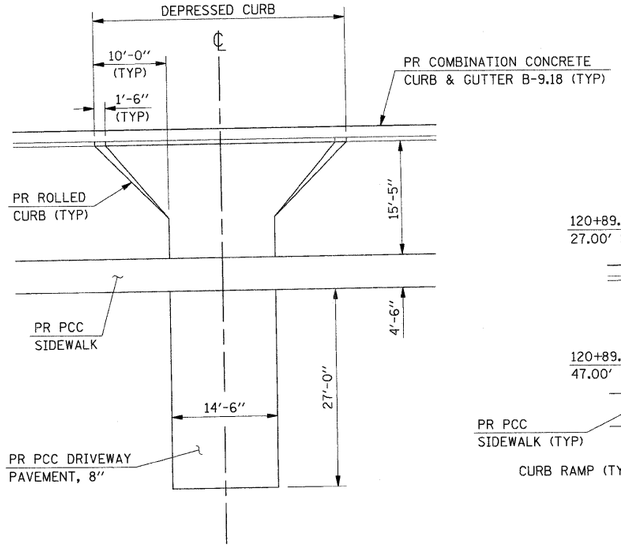
PLAN VIEW
CE LT STA. 108+55



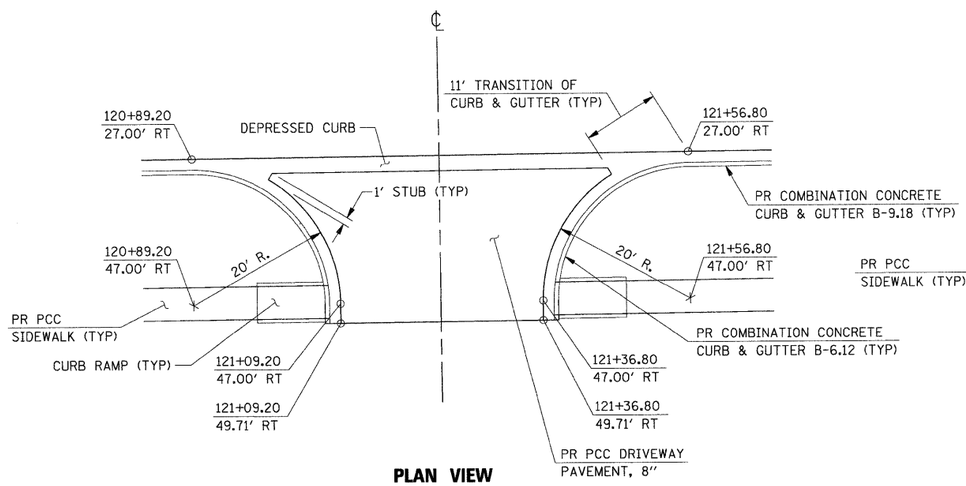
PLAN VIEW
CE LT STA. 110+49

NOTES:

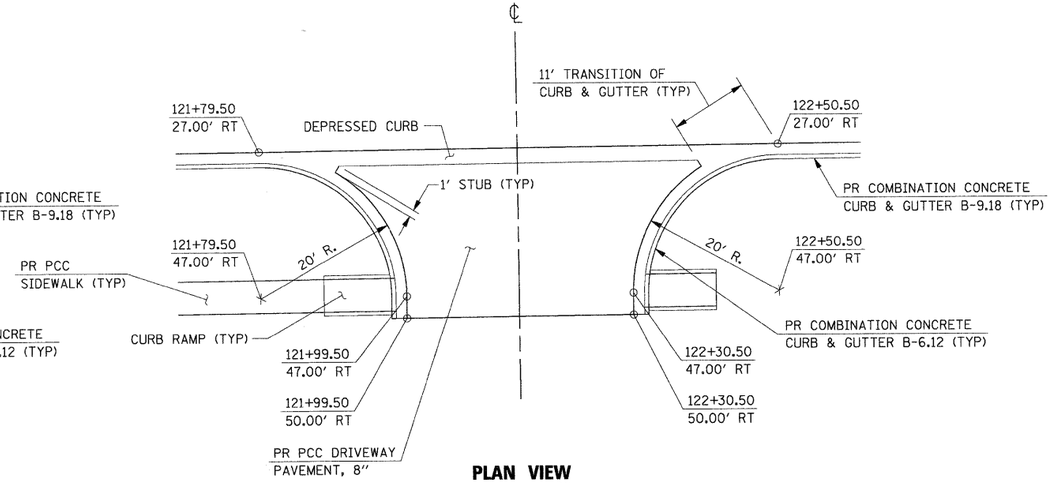
1. ALL ENTRANCES TO BE PORTLAND CEMENT CONCRETE:
   (INCLUDING SIDEWALK THRU ENTRANCE)
   PRIVATE ENTRANCE = 6″
   COMMERCIAL ENTRANCE = 8″
2. REFER TO PLAN & PROFILE SHEETS OR ENTRANCE SCHEDULE FOR ENTRANCE TYPE, WIDTH LIMITS, AND LOCATION.
3. CROSS-SLOPE ON SIDEWALK THRU ENTRANCE SHALL REMAIN CONSTANT 2% AS SHOWN.
4. REPLACE SURFACE IN KIND BEYOND LIMITS OF PROPOSED CONCRETE DRIVE AS NEEDED WITHIN R-O-W OR EASEMENT LIMITS.
5. MAXIMUM ALLOWABLE LONGITUDINAL SLOPE ON DRIVEWAYS: 8.0%



PLAN VIEW
CE RT STA. 116+38



PLAN VIEW
CE RT STA. 121+23



PLAN VIEW
CE RT STA. 122+15

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

ENTRANCE DETAILS

SCALE: 1″ = 10′ DRAWN BY: JEB
DATE: APRIL 9, 2009 CHECKED BY: CMS

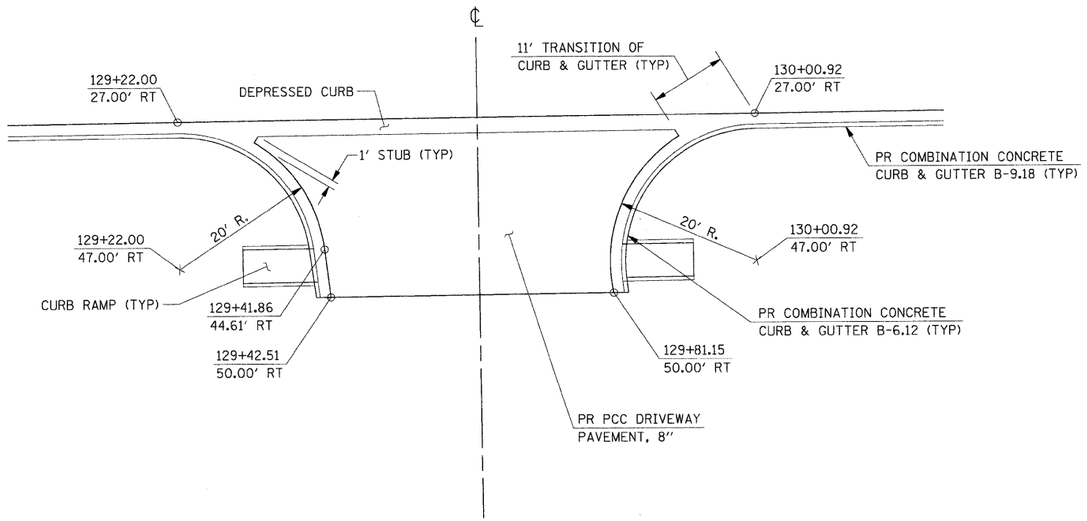
PLOT DATE = $DATE$
FILE NAME = $FILE$
PLOT SCALE = $SCALE$
USER NAME = $USER$

$FILE$

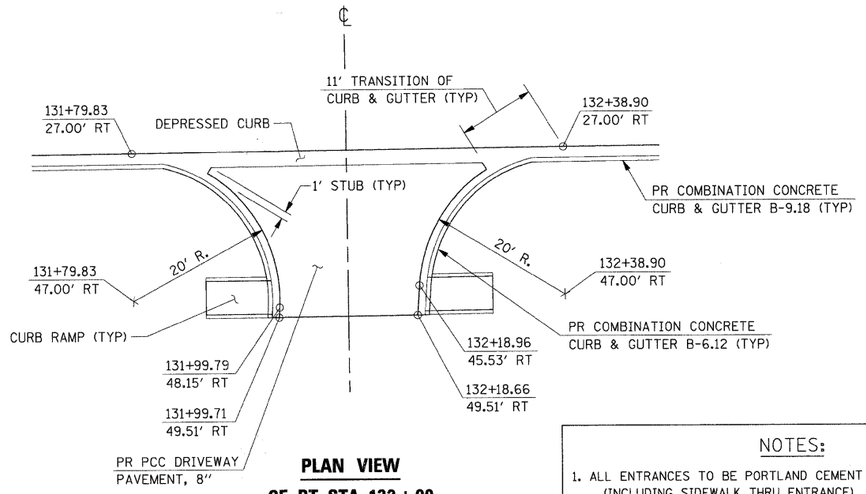
CONTRACT No. 63093

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1578	*	WILL	155	102
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* 06-00046-00-PV



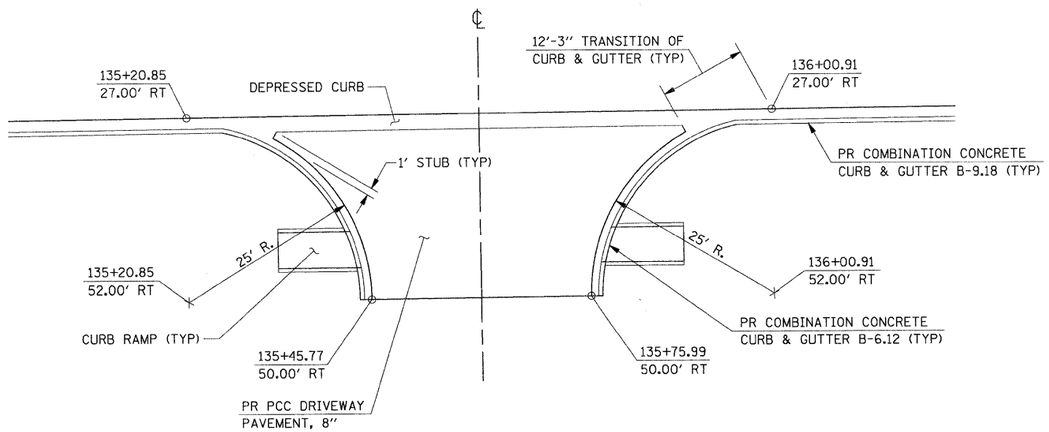
PLAN VIEW
CE RT STA. 129+63



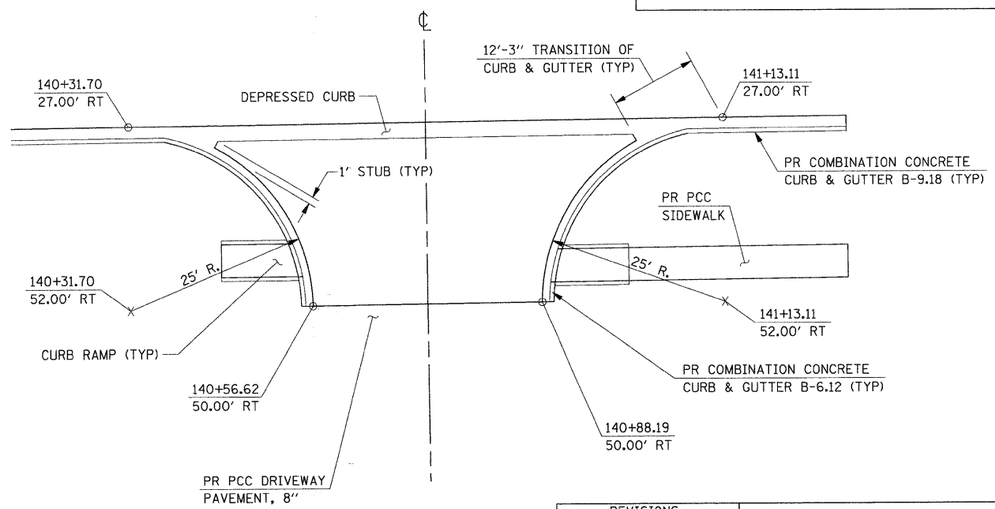
PLAN VIEW
CE RT STA. 132+09

NOTES:

1. ALL ENTRANCES TO BE PORTLAND CEMENT CONCRETE:
   (INCLUDING SIDEWALK THRU ENTRANCE)
   PRIVATE ENTRANCE = 6″
   COMMERCIAL ENTRANCE = 8″
2. REFER TO PLAN & PROFILE SHEETS OR ENTRANCE SCHEDULE FOR ENTRANCE TYPE, WIDTH LIMITS, AND LOCATION.
3. CROSS-SLOPE ON SIDEWALK THRU ENTRANCE SHALL REMAIN CONSTANT 2% AS SHOWN.
4. REPLACE SURFACE IN KIND BEYOND LIMITS OF PROPOSED CONCRETE DRIVE AS NEEDED WITHIN R-O-W OR EASEMENT LIMITS.
5. MAXIMUM ALLOWABLE LONGITUDINAL SLOPE ON DRIVEWAYS: 8.0%



PLAN VIEW
CE RT STA. 135+61



PLAN VIEW
CE RT STA. 140+72.5

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

ENTRANCE DETAILS

SCALE: 1″ = 10′ DRAWN BY: JEB
DATE: APRIL 9, 2009 CHECKED BY: CMS

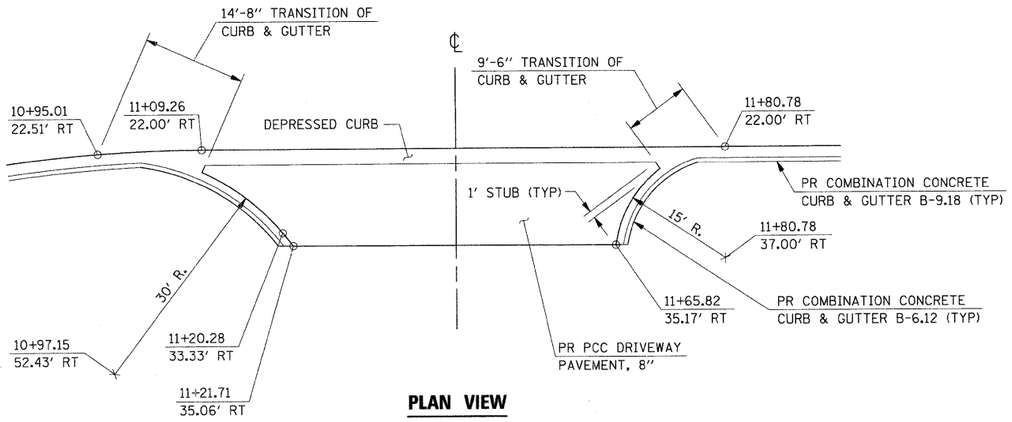
PLOT DATE = $DATE$
FILE NAME = $FILES$
PLOT SCALE = $$SCALE$
USER NAME = $USER$

$FILES$

CONTRACT No. 63093

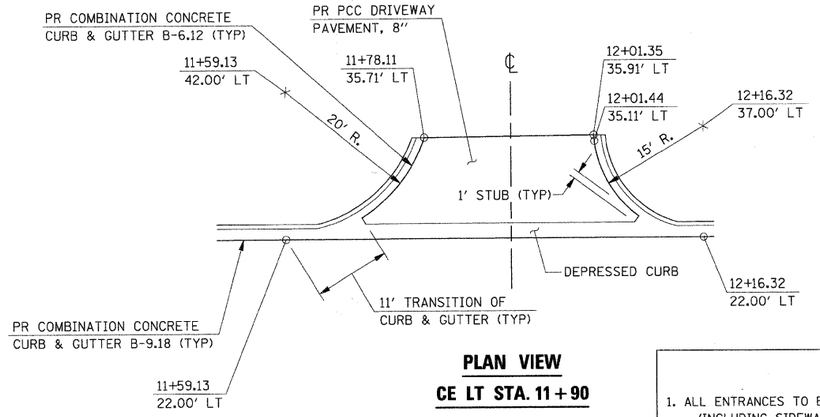
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1578	*	WILL	155	103
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* 06-00046-00-PV



PLAN VIEW

CE RT STA. 11+44

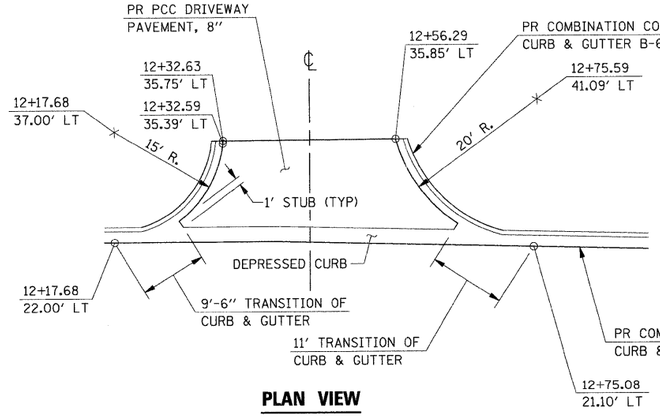


PLAN VIEW

CE LT STA. 11+90

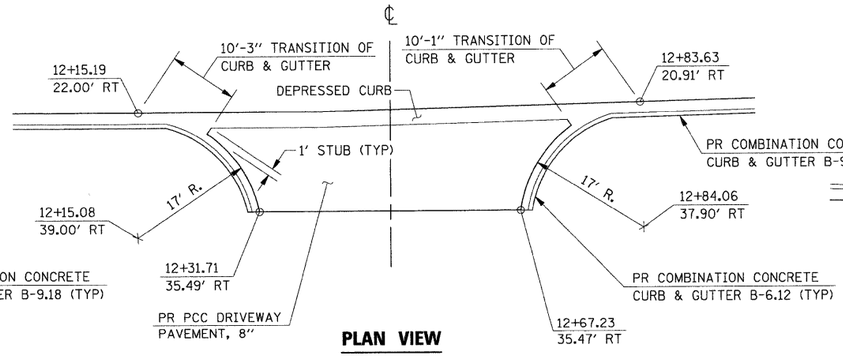
NOTES:

1. ALL ENTRANCES TO BE PORTLAND CEMENT CONCRETE:
   (INCLUDING SIDEWALK THRU ENTRANCE)
   PRIVATE ENTRANCE = 6"
   COMMERCIAL ENTRANCE = 8"
2. REFER TO PLAN & PROFILE SHEETS OR ENTRANCE SCHEDULE FOR ENTRANCE TYPE, WIDTH LIMITS, AND LOCATION.
3. CROSS-SLOPE ON SIDEWALK THRU ENTRANCE SHALL REMAIN CONSTANT 2% AS SHOWN.
4. REPLACE SURFACE IN KIND BEYOND LIMITS OF PROPOSED CONCRETE DRIVE AS NEEDED WITHIN R-O-W OR EASEMENT LIMITS.
5. MAXIMUM ALLOWABLE LONGITUDINAL SLOPE ON DRIVEWAYS: 8.0%



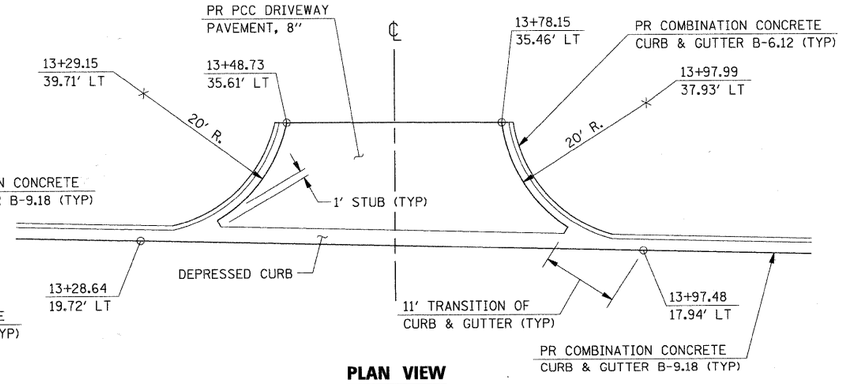
PLAN VIEW

CE LT STA. 12+44.5



PLAN VIEW

CE RT STA. 12+49.5



PLAN VIEW

CE LT STA. 13+63.5

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

ENTRANCE DETAILS

SCALE: 1" = 10'

DRAWN BY: JEB

DATE: APRIL 9, 2009

CHECKED BY: CMS

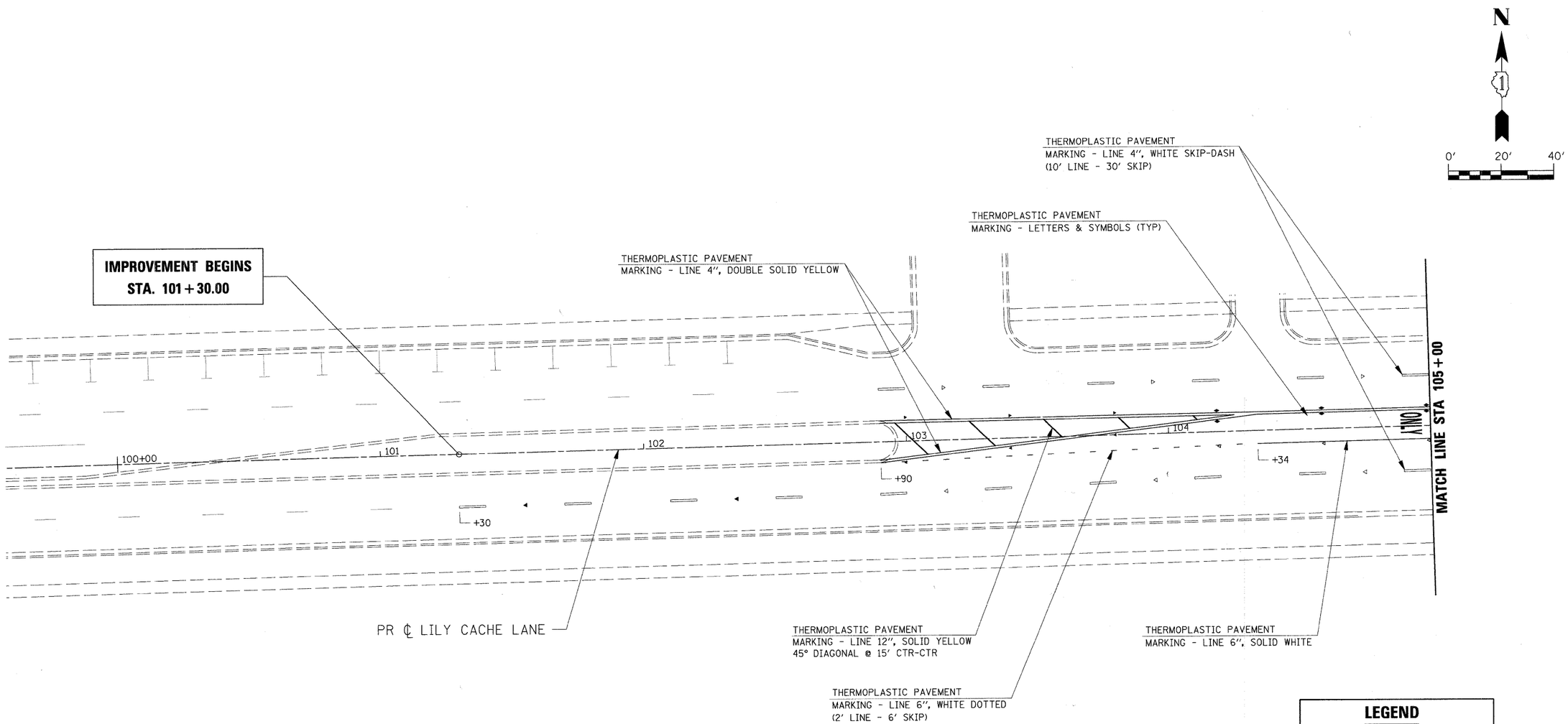
PLOT DATE = $DATE$
FILE NAME = $FILE$
PLOT SCALE = $SCALE$
USER NAME = $USER$

$FILES$

CONTRACT No. 63093

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1578	*	WILL	155	104
STA. 104+70		TO STA. 116+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* 06-00046-00-PV



LEGEND

- ▶ ONE - WAY AMBER MARKER
- ▷ ONE - WAY CRYSTAL MARKER
- ◆ TWO - WAY AMBER MARKER

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SIGNING & PAVEMENT MARKING

STA 100+00 TO STA. 105+00

SCALE: 1" = 20'
DRAWN BY: JEB
DATE: APRIL 9, 2009
CHECKED BY: CMS

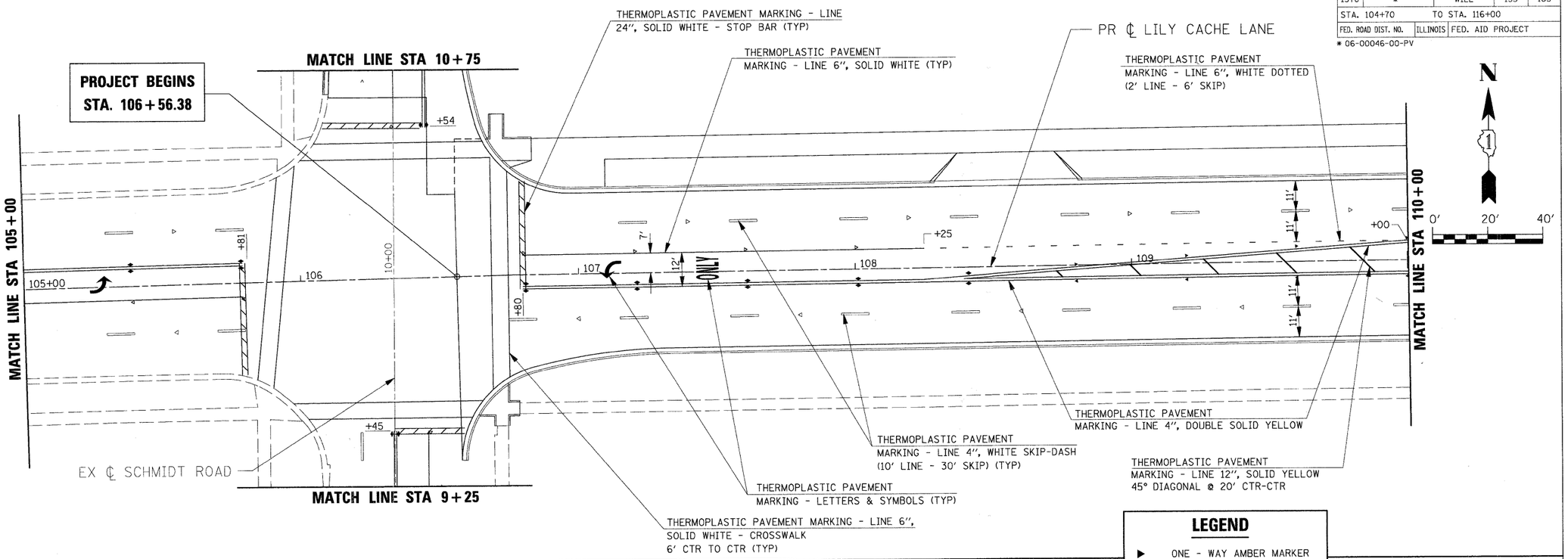
$FILES$

PLOT DATE = $DATE$
FILE NAME = $FILE$
PLOT SCALE = $SCALE$
USER NAME = $USER$

CONTRACT No. 63093

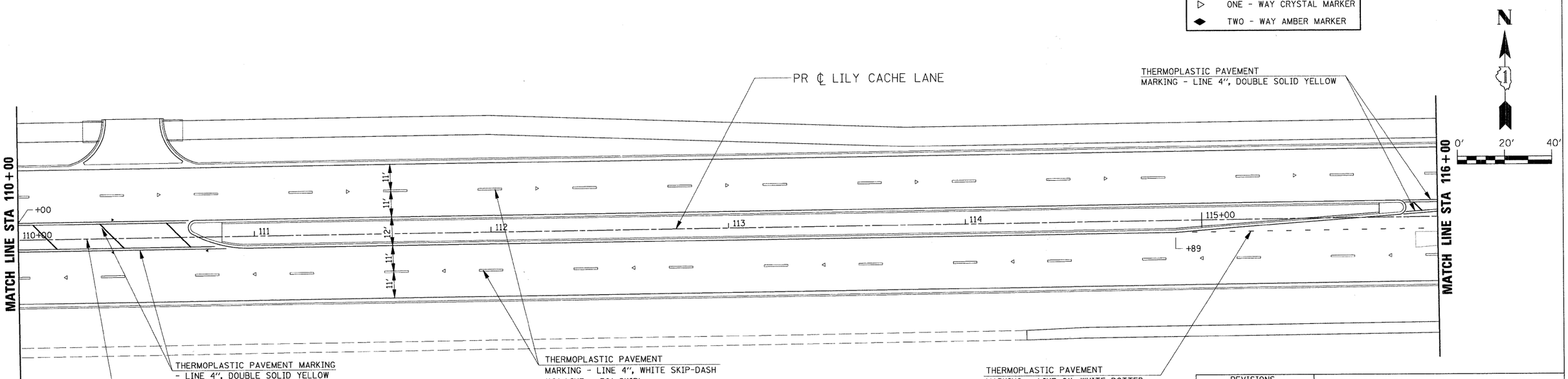
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1578	*	WILL	155	105
STA. 104+70		TO STA. 116+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* 06-00046-00-PV



LEGEND

- ▶ ONE - WAY AMBER MARKER
- ▷ ONE - WAY CRYSTAL MARKER
- ◆ TWO - WAY AMBER MARKER



REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SIGNING & PAVEMENT MARKING STA 105+00 TO STA. 116+00

SCALE: 1" = 20'
DRAWN BY: JEB
DATE: APRIL 9, 2009
CHECKED BY: CMS

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USER NAME = $USER$

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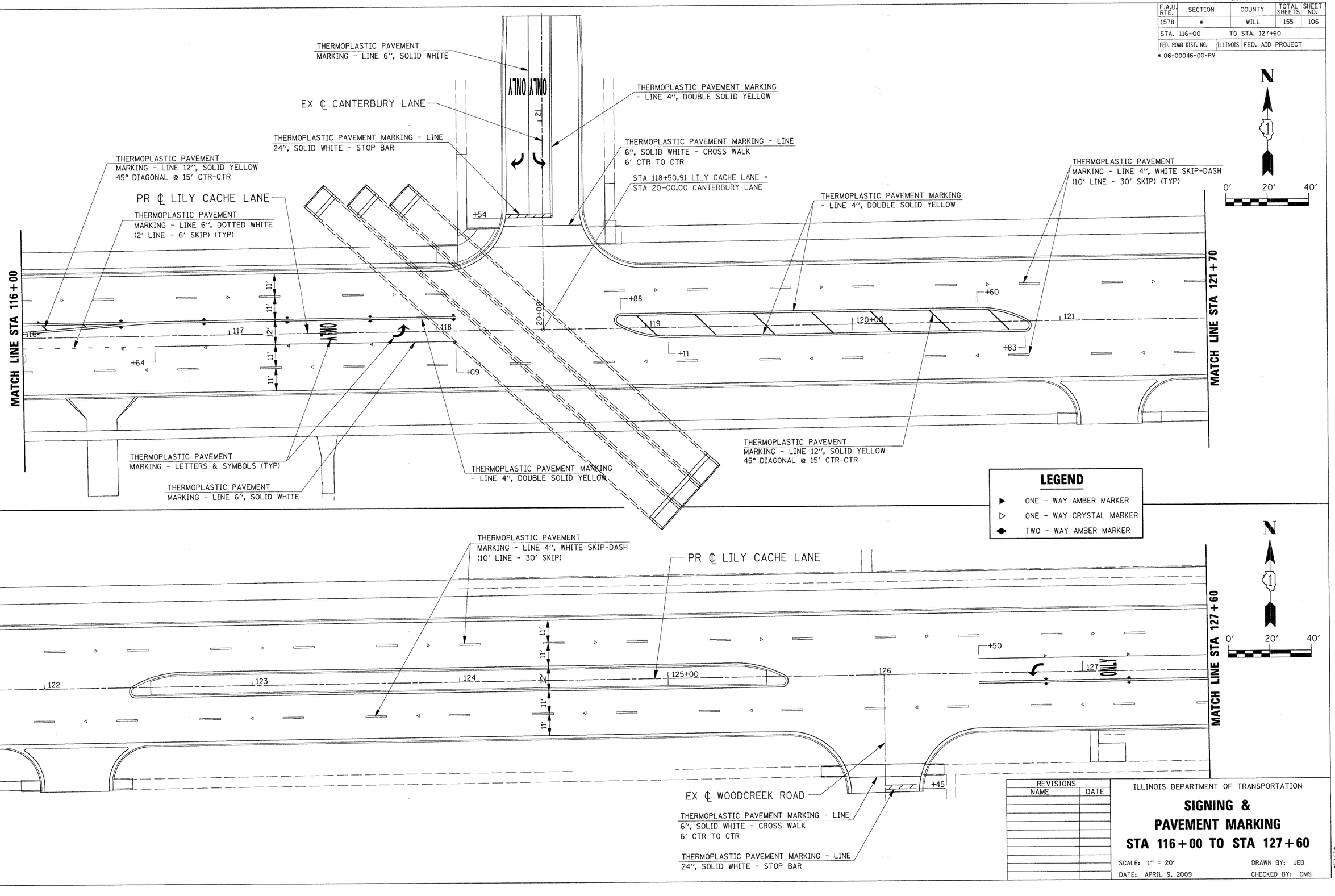
CONTRACT No. 63093

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1578	*	WILL	155	106
STA. 116+00		TO STA. 127+60		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* 06-00046-00-PV



REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SIGNING & PAVEMENT MARKING STA 116+00 TO STA 127+60

SCALE: 1" = 20'
DRAWN BY: JEB
DATE: APRIL 9, 2009
CHECKED BY: CMS

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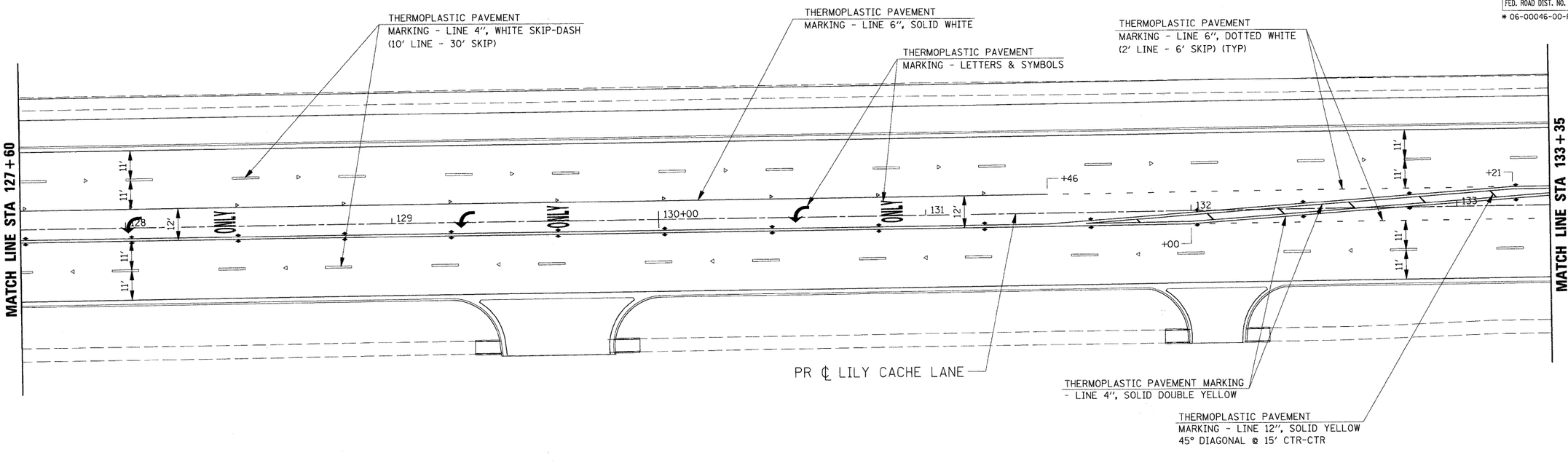
USER NAME = $USER$

&ETI FS&

CONTRACT No. 63093

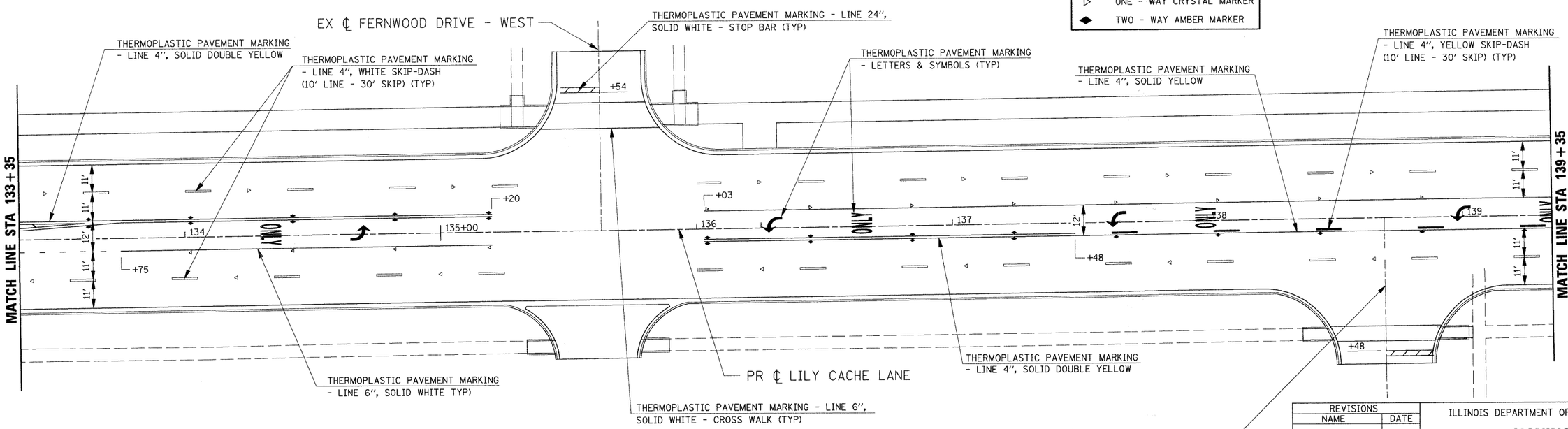
F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1578	*	WILL	155	107
STA. 127+60		TO STA. 139+35		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* 06-00046-00-PV



LEGEND

- ▶ ONE - WAY AMBER MARKER
- ▷ ONE - WAY CRYSTAL MARKER
- ◆ TWO - WAY AMBER MARKER



REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SIGNING & PAVEMENT MARKING

STA 127+60 TO STA 139+35

SCALE: 1" = 20'
DRAWN BY: JEB
DATE: APRIL 9, 2009
CHECKED BY: CMS

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PLOT SCALE = $SCALE$
USER NAME = $USER$

$FILES$

CONTRACT No. 63093

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1578	*	WILL	155	108
STA. 139+35		TO STA. 145+10		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

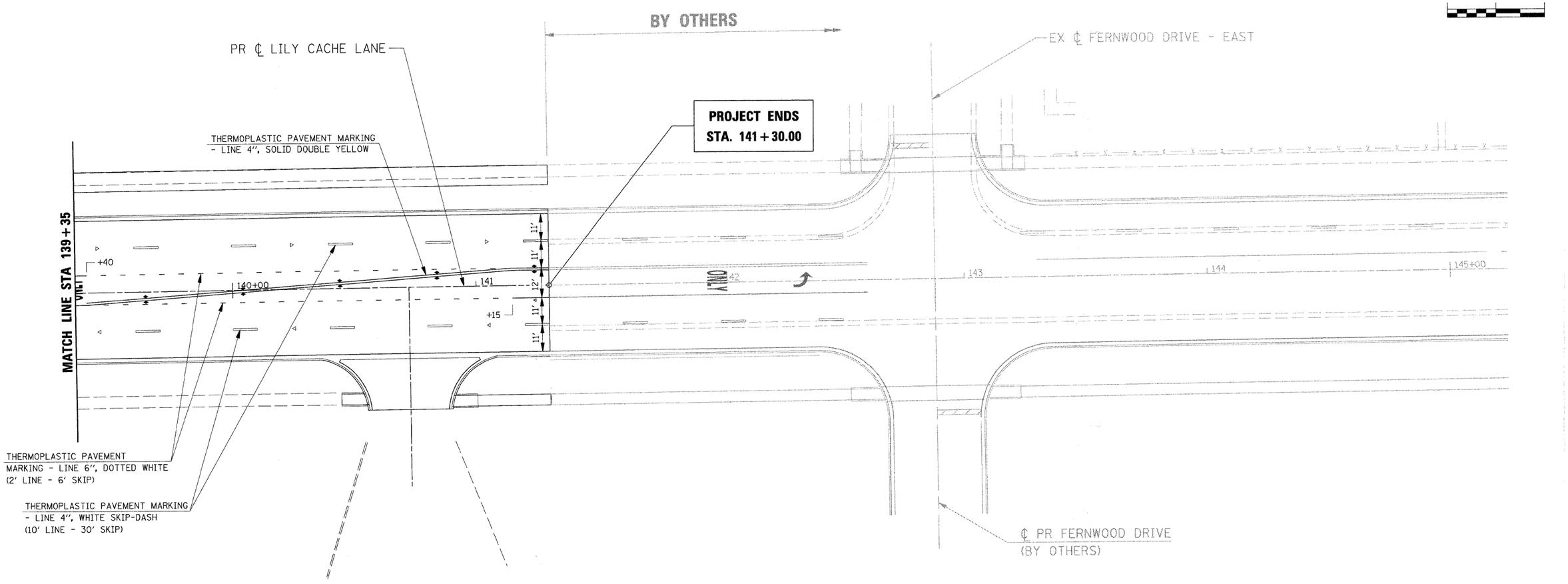
* 06-00046-00-PV

LEGEND

- ▶ ONE - WAY AMBER MARKER
- ▷ ONE - WAY CRYSTAL MARKER
- ◆ TWO - WAY AMBER MARKER

N

0′ 20′ 40′



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SIGNING & PAVEMENT MARKING STA 139+35 TO STA 141+30

SCALE: 1" = 20′ DRAWN BY: JEB

DATE: APRIL 9, 2009 CHECKED BY: CMS

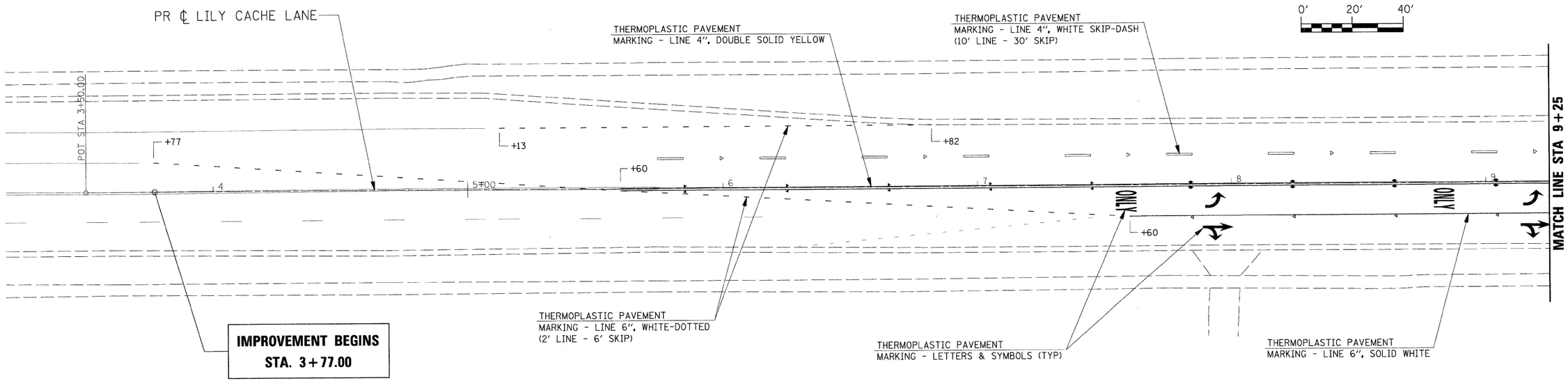
PLOT DATE = $DATE$
FILE NAME = $FILE$
PLOT SCALE = $SCALE$
USER NAME = $USER$

$FILES$

CONTRACT No. 63093

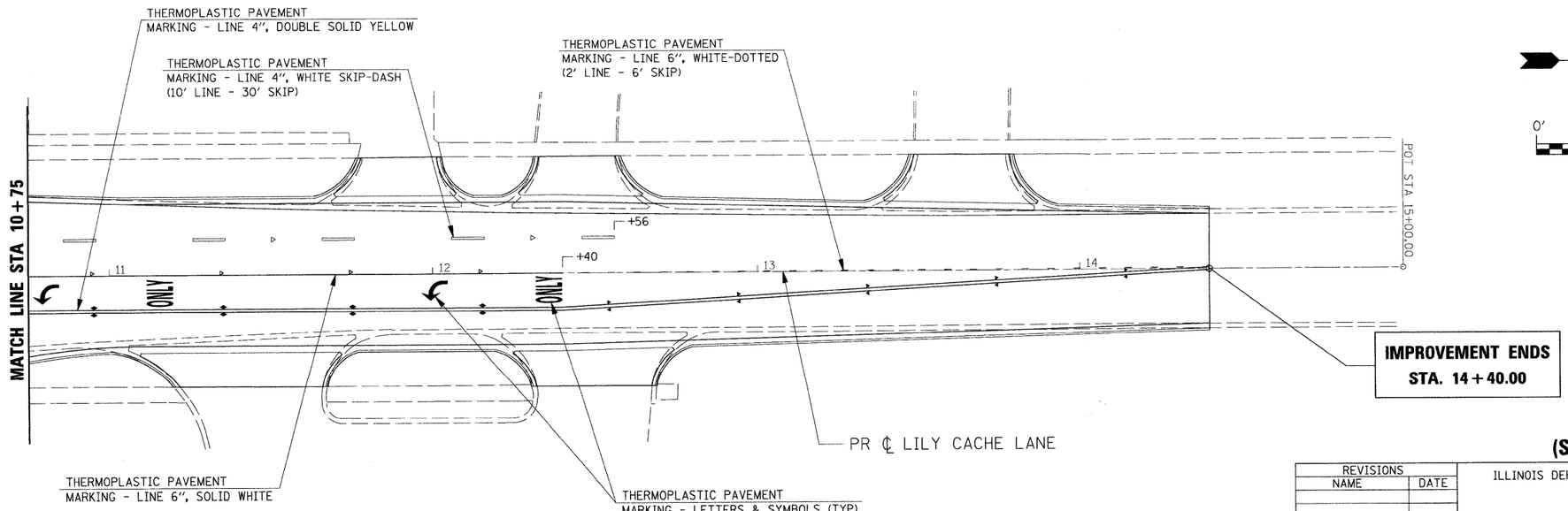
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1578	*	WILL	155	109
STA. 104+70		TO STA. 116+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* 06-00046-00-PV



LEGEND

- ONE - WAY AMBER MARKER
- ONE - WAY CRYSTAL MARKER
- TWO - WAY AMBER MARKER



(SCHMIDT ROAD)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SIGNING & PAVEMENT MARKING STA 3+50 TO STA. 15+00

SCALE: 1" = 20' DRAWN BY: JEB

DATE: APRIL 9, 2009 CHECKED BY: CMS

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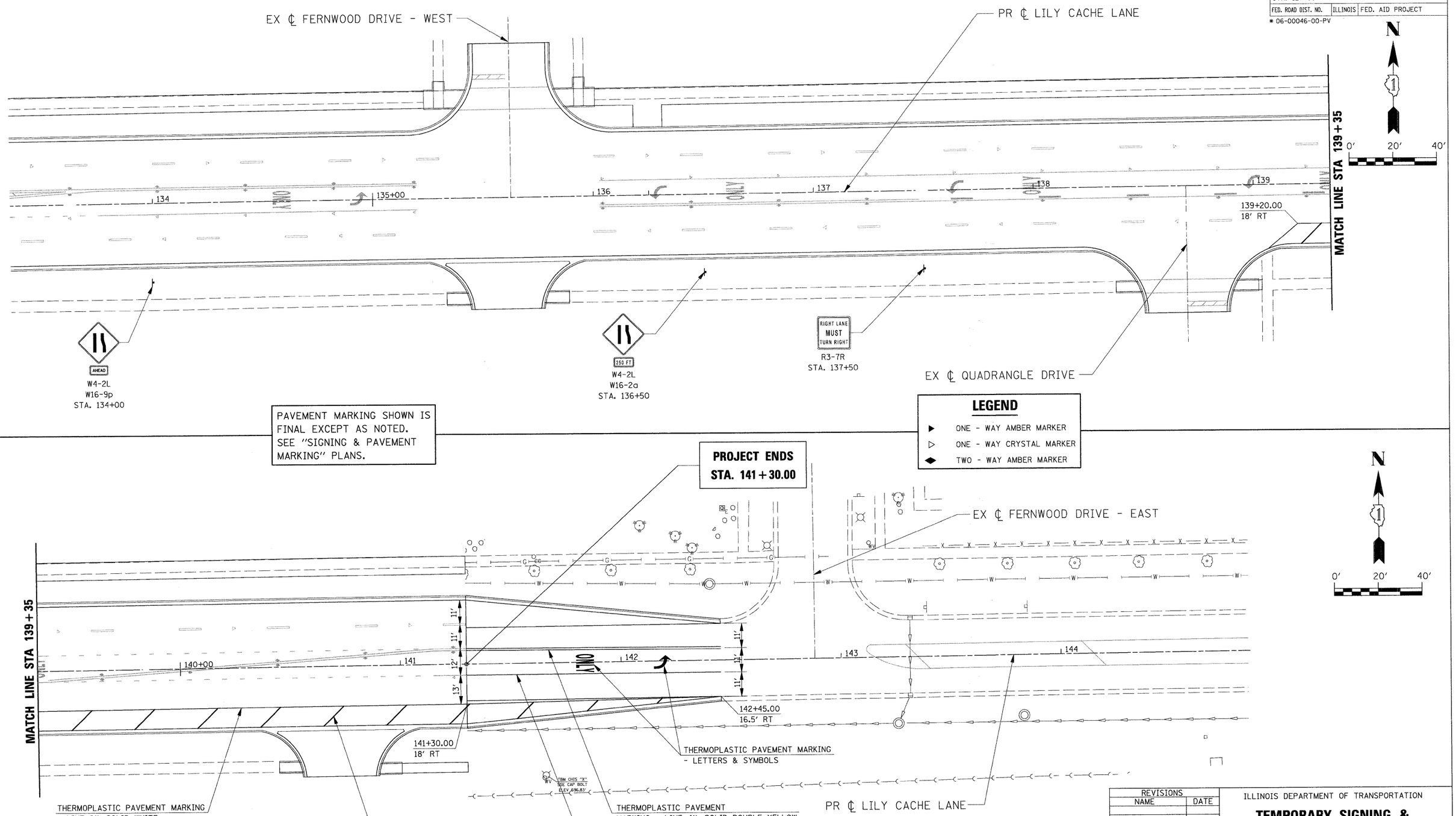
FILE NAME = $FILE$
PLOT SCALE = $SCALE$
USER NAME = $USER$

$FILES$

CONTRACT No. 63093

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1578	*	WILL	155	110
STA. 127+60		TO STA. 139+35		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* 06-00046-00-PV



PAVEMENT MARKING SHOWN IS FINAL EXCEPT AS NOTED. SEE "SIGNING & PAVEMENT MARKING" PLANS.

LEGEND

- ▶ ONE - WAY AMBER MARKER
- ▷ ONE - WAY CRYSTAL MARKER
- ◆ TWO - WAY AMBER MARKER

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

TEMPORARY SIGNING & PAVEMENT MARKING STA 133+35 TO STA 145+10

SCALE: 1" = 20'
DRAWN BY: JEB
DATE: APRIL 9, 2009
CHECKED BY: CMS

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USER NAME = $USER$

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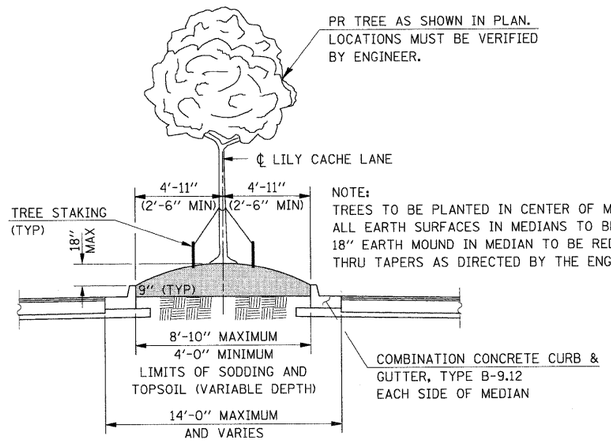
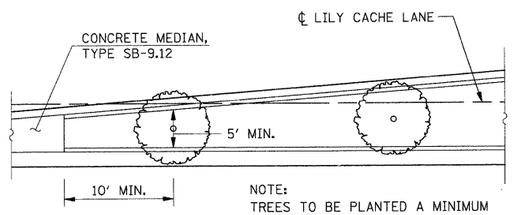
CONTRACT No. 63093

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1578	*	WILL	155	111
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* 06-00046-00-PV



TREE PLANTING DETAIL (SECTION)



PLAN – TREE PLANTING DETAIL

GENERAL NOTES FOR TREE PLANTING AND LANDSCAPING

1. TREES PLANTED IN THE MEDIAN SHALL BE A COMBINATION OF COMMON HACKBERRY TREES AND LITTLE LEAF LINDEN TREES. SEE LANDSCAPING PLANS FOR LOCATIONS.

2. NO LANDSCAPING SHALL TAKE PLACE UNTIL ALL MAJOR PAVING ACTIVITIES AND ELECTRICAL CONDUIT INSTALLATIONS HAVE BEEN COMPLETED. COORDINATE LOCATION OF THE TREE PLANTINGS WITH ALL UNDERGROUND WORK BEFORE COMMENCEMENT OF WORK.

3. ALL LANDSCAPE MATERIALS AND PLANTING PROCEDURES SHALL BE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF SECTIONS 201, 211 AND 250 THROUGH 254 OF THE STANDARD SPECIFICATIONS, AND SHALL ALSO BE IN COMPLIANCE WITH SECTION 30-415 OF THE VILLAGE OF BOLINGBROOK DEVELOPMENT CODE.

4. SEE TREE PLANTING SCHEDULE FOR PROPOSED TREE TYPE AND LOCATIONS

   (A) CELTIS OCCIDENTALIS CHICAGOLAND (CHICAGOLAND HACKBERRY)

   (B) TILIA CORDATA (LITTLE LEAF LINDEN)

   (T) TRANSPLANTED TREE (AS DIRECTED BY THE ENGINEER)

NOTE:
TRANSPLANTED TREES NOT DESIGNATED FOR PLACEMENT BY THE ENGINEER ALONG THE BOULEVARD OF LILY CACHE LANE SHALL BE PLANTED ON VILLAGE PROPERTY NORTH OF LILY CACHE LANE BETWEEN SCHMIDT ROAD AND CANTERBURY LANE WITHIN 1000' OF PROJECT LIMITS.

TREE PLANTING SCHEDULE

TREE, CELTIS OCCIDENTALIS CHICAGOLAND (CHICAGOLAND HACKBERRY)
3" CALIPER, BALLED AND BURLAPPED

1' LT STA 110+90 TO 1' LT STA 111+65 @ 25' C-C	=	4 EACH
1' LT STA 114+65 TO 3' LT STA 115+40 @ 25' C-C	=	4 EACH
1' LT STA 122+60 TO 1' LT STA 123+35 @ 25' C-C	=	4 EACH
1' LT STA 124+60 TO 1' LT STA 125+35 @ 25' C-C	=	4 EACH
TOTAL	=	16 EACH

TREE, TILIA CORDATA (LITTLE LEAF LINDEN)
3" CALIPER, BALLED AND BURLAPPED

1' LT STA 111+90 TO 1' LT STA 114+50 @ 25' C-C	=	11 EACH
1' LT STA 123+60 TO 1' LT STA 124+35 @ 25' C-C	=	4 EACH
TOTAL	=	15 EACH

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

LANDSCAPING GENERAL NOTES AND TREE PLANTING DETAILS

SCALE: NONE
DRAWN BY: JEB
DATE: APRIL 9, 2009
CHECKED BY: CMS

5824LGN01.SHT

PLOT DATE = 4/13/2009
FILE NAME = G:\GIS\5824\CAD\5824LGN01.SHT
PLOT SCALE = 200.0000 ' / IN.
USER NAME = IE Consultants

CONTRACT No. 63093

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1578	*	WILL	155	112
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

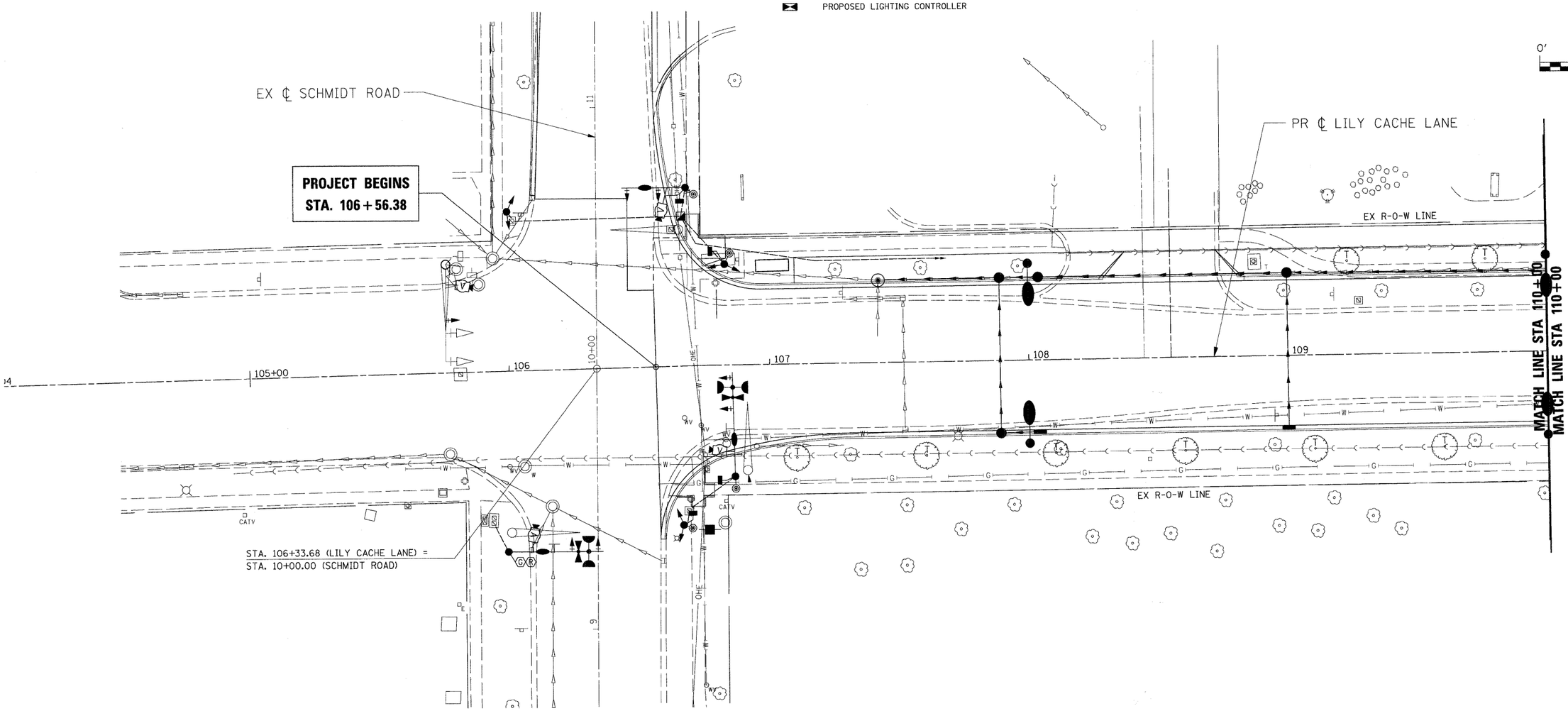
* 06-00046-00-PV

LANDSCAPING LEGEND

- INDICATES PROPOSED SODDING AREAS
- PROPOSED TREES
  SEE "GENERAL NOTES FOR TREE PLANTING AND LANDSCAPING" FOR APPROVED TREES AND INSTRUCTIONS.
- LIGHT UNIT, SEE "LIGHTING PLANS"
- DUAL LIGHT UNIT, SEE "LIGHTING PLANS"
- ComEd COMPANY PAD MOUNTED SERVICE
- PROPOSED LIGHTING CONTROLLER

N

0' 20' 40'



2 of 8

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN
STA 104+70 TO STA 110+00

SCALE: 1" = 20' DRAWN BY: JEB

DATE: APRIL 9, 2009 CHECKED BY: CMS

5024LL01.SHT

PLOT DATE = 4/13/2009
PLOT NAME = R:\5024\CAD\5024LL01.SHT
PLOT SCALE = 20.2755 ' / IN.
USER NAME = IE Consultants

CONTRACT No. 63093

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1578	*	WILL	155	113
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

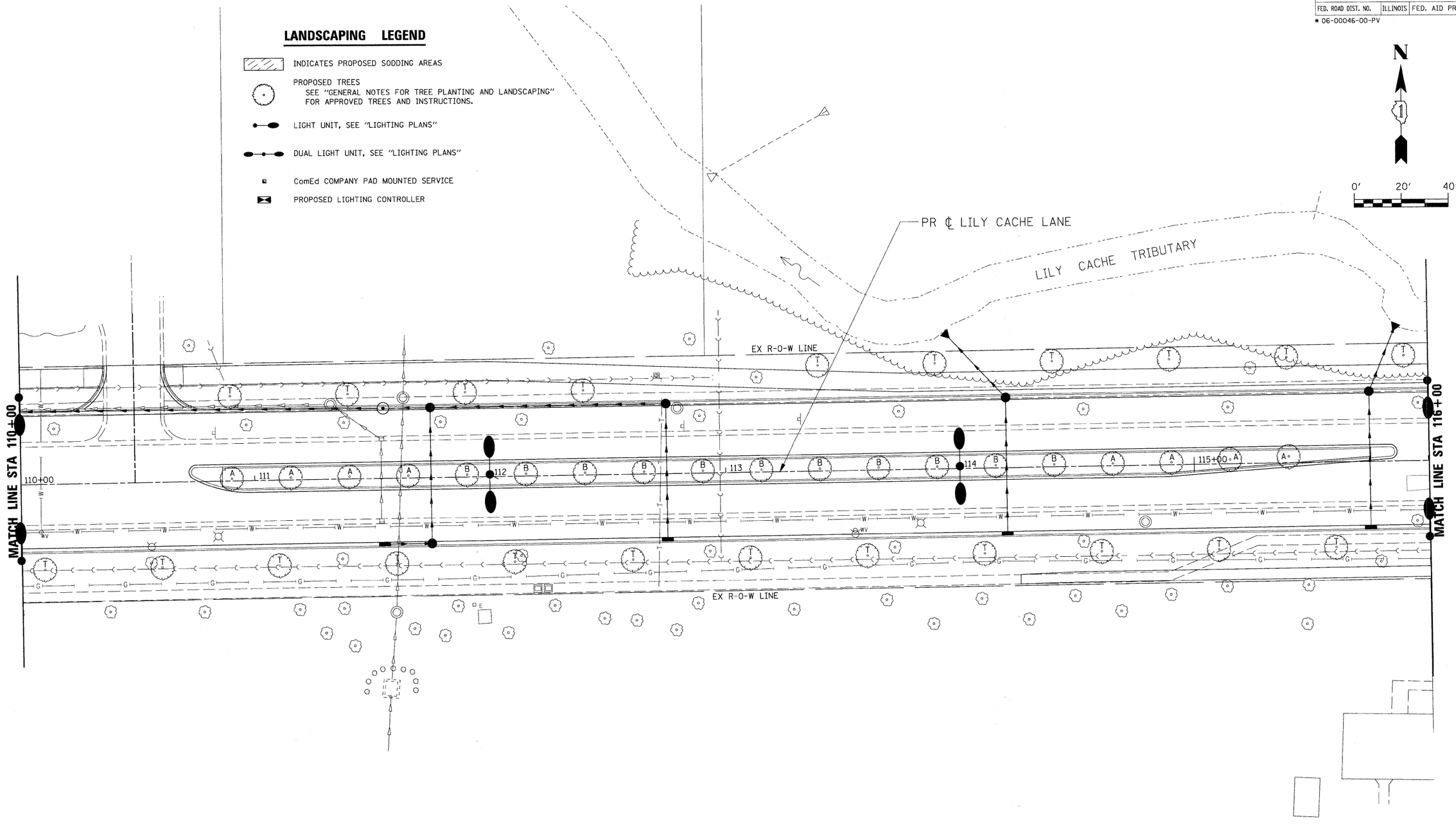
* 06-00046-00-PV

LANDSCAPING LEGEND

- INDICATES PROPOSED SODDING AREAS
- PROPOSED TREES
  SEE "GENERAL NOTES FOR TREE PLANTING AND LANDSCAPING" FOR APPROVED TREES AND INSTRUCTIONS.
- LIGHT UNIT, SEE "LIGHTING PLANS"
- DUAL LIGHT UNIT, SEE "LIGHTING PLANS"
- ComEd COMPANY PAD MOUNTED SERVICE
- PROPOSED LIGHTING CONTROLLER

N

0' 20' 40'



3 of 8

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN
STA 110+00 TO STA 116+00

SCALE: 1" = 20' DRAWN BY: JEB

DATE: APRIL 9, 2009 CHECKED BY: CMS

5824LL02.SHT

PLOT DATE = 4/13/2009
FILE NAME = G:\SURVEY\LDD\5824LL02.SHT
PLOT SCALE = 20.000 '/ IN.
USER NAME = IE Consultants

CONTRACT No. 63093

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1578	*	WILL	155	114
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

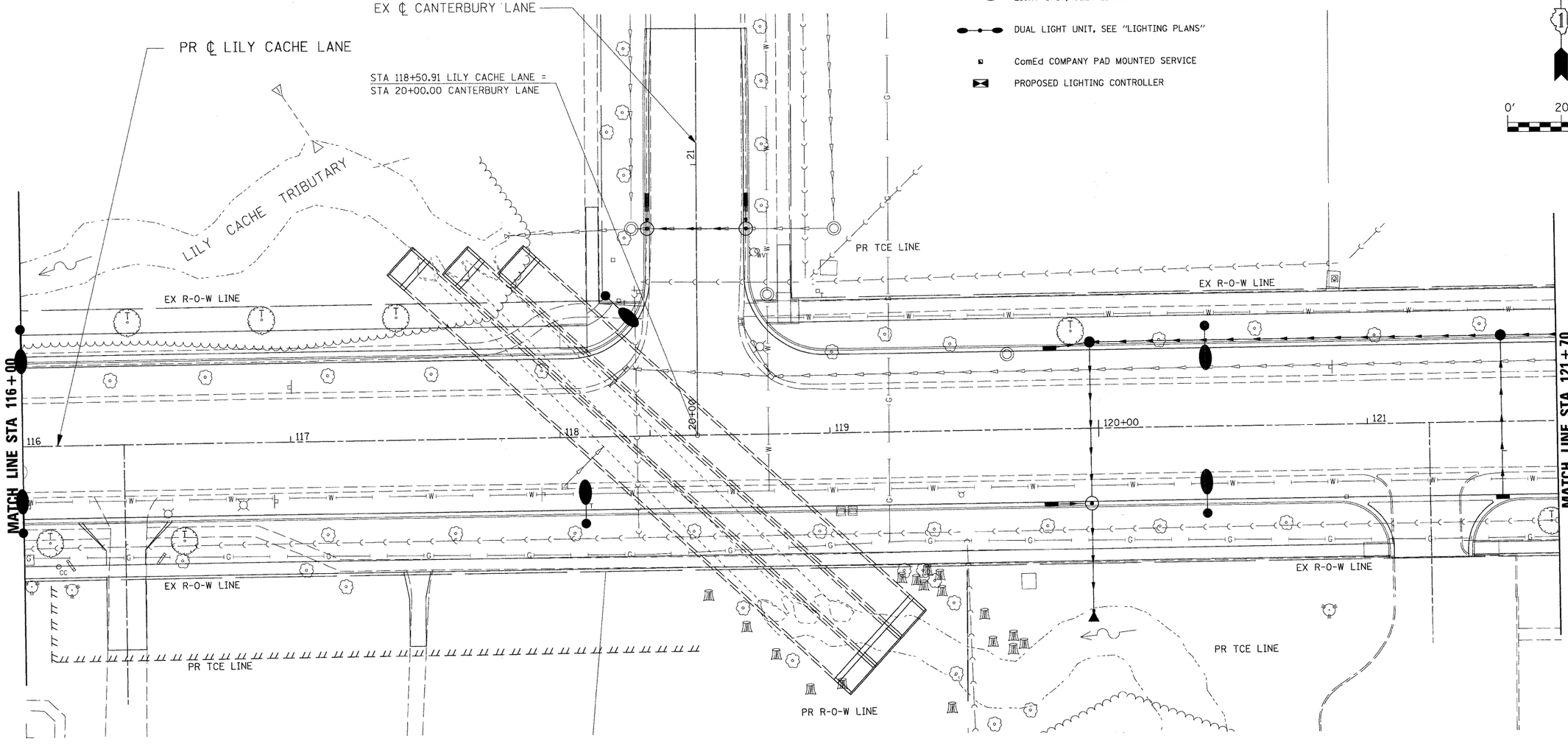
* 06-00046-00-PV

LANDSCAPING LEGEND

- INDICATES PROPOSED SODDING AREAS
- PROPOSED TREES
  SEE "GENERAL NOTES FOR TREE PLANTING AND LANDSCAPING" FOR APPROVED TREES AND INSTRUCTIONS.
- LIGHT UNIT, SEE "LIGHTING PLANS"
- DUAL LIGHT UNIT, SEE "LIGHTING PLANS"
- ComEd COMPANY PAD MOUNTED SERVICE
- PROPOSED LIGHTING CONTROLLER

N

0' 20' 40'



4 of 8

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN
STA 116+00 TO STA 121+70

SCALE: 1" = 20' DRAWN BY: JEB

DATE: APRIL 9, 2009 CHECKED BY: CMS

5R24LL03.SHT

PLOT DATE = 4/13/2009
FILE NAME = G:\SRS\R24\CAD\5R24LL03.SHT
PLOT SCALE = 20.0000 '/ In.
USER NAME = IE Consultants

CONTRACT No. 63093

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1578	*	WILL	155	115
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

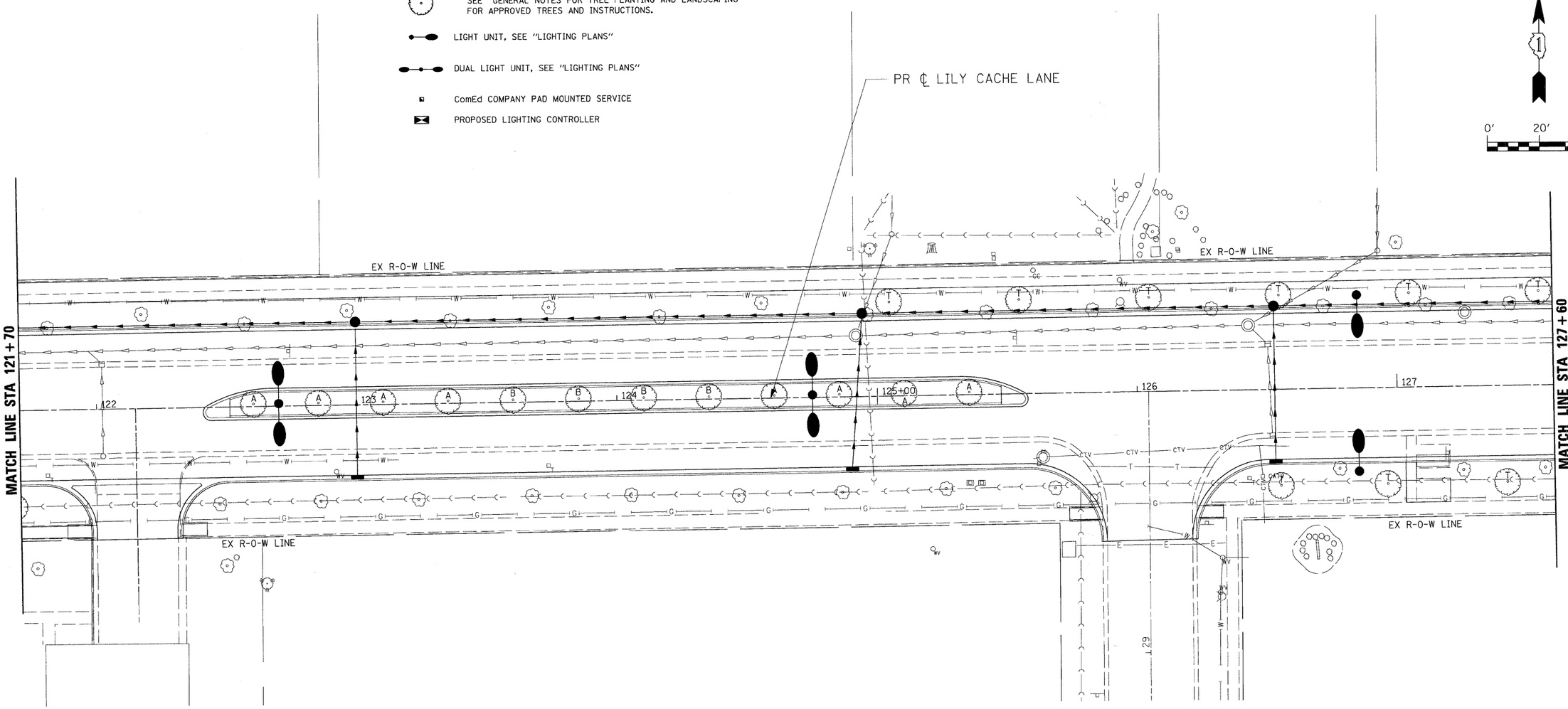
* 06-00046-00-PV

LANDSCAPING LEGEND

- INDICATES PROPOSED SODDING AREAS
- PROPOSED TREES
  SEE "GENERAL NOTES FOR TREE PLANTING AND LANDSCAPING" FOR APPROVED TREES AND INSTRUCTIONS.
- LIGHT UNIT, SEE "LIGHTING PLANS"
- DUAL LIGHT UNIT, SEE "LIGHTING PLANS"
- ComEd COMPANY PAD MOUNTED SERVICE
- PROPOSED LIGHTING CONTROLLER

N

0' 20' 40'



5 of 8

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN
STA 121+70 TO STA 127+60

SCALE: 1" = 20'
DATE: APRIL 9, 2009
DRAWN BY: JEB
CHECKED BY: CMS

5824LL04.SHT

PLOT DATE = 4/13/2009
FILE NAME = G:\SBS\5824\CAD\5824LL04.SHT
PLOT SCALE = 20.0000 ' / IN.
USER NAME = IE Consultants

CONTRACT No. 63093

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1578	*	WILL	155	116
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

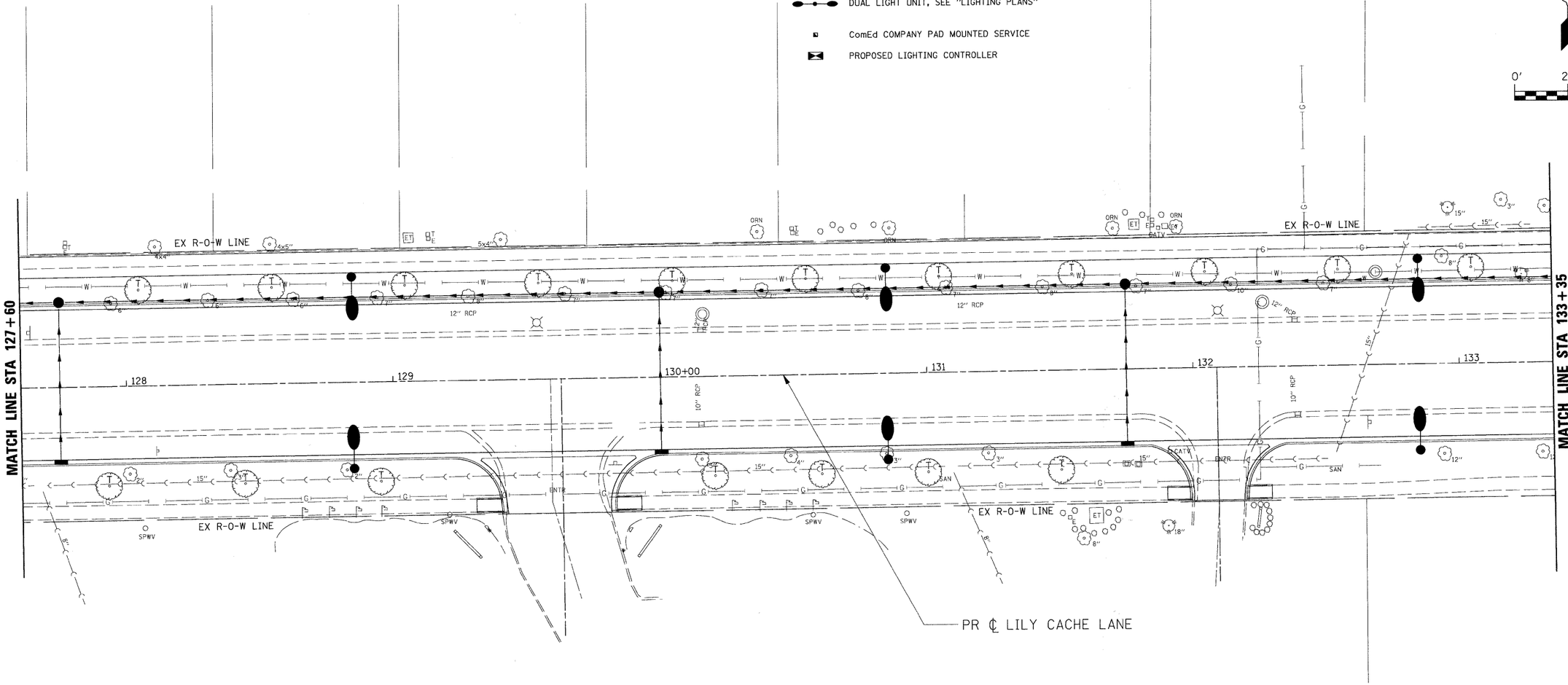
* 06-00046-00-PV

LANDSCAPING LEGEND

- INDICATES PROPOSED SODDING AREAS
- PROPOSED TREES
  SEE "GENERAL NOTES FOR TREE PLANTING AND LANDSCAPING" FOR APPROVED TREES AND INSTRUCTIONS.
- LIGHT UNIT, SEE "LIGHTING PLANS"
- DUAL LIGHT UNIT, SEE "LIGHTING PLANS"
- ComEd COMPANY PAD MOUNTED SERVICE
- PROPOSED LIGHTING CONTROLLER

N

0' 20' 40'



6 of 8

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN
STA 127+60 TO STA 133+35

SCALE: 1" = 20' DRAWN BY: JEB

DATE: APRIL 9, 2009 CHECKED BY: CMS

5924LL05.SHT

PLOT DATE = 4/13/2009
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PLOT SCALE = 20.2151 ' / IN.
USER NAME = IE Consultants

CONTRACT No. 63093

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1578	*	WILL	155	117
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

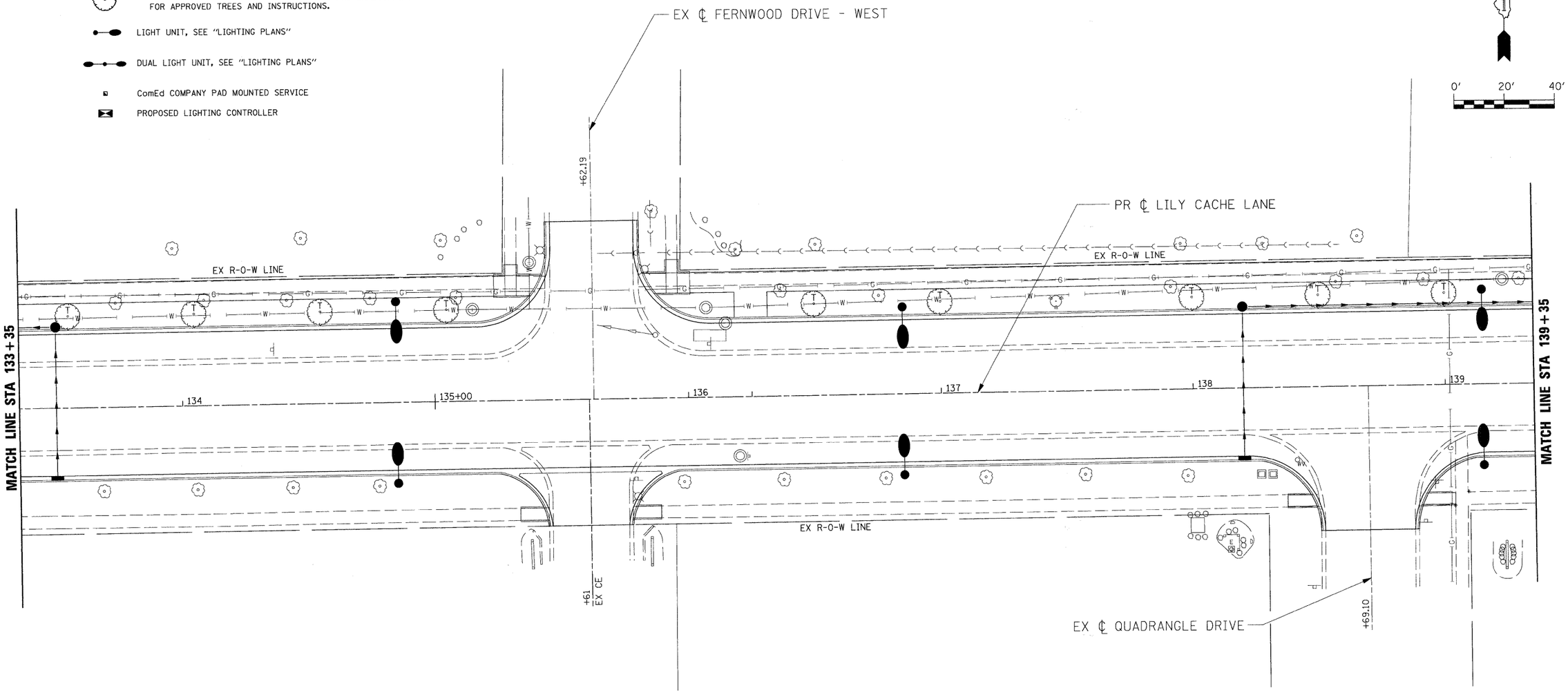
* 06-00046-00-PV

LANDSCAPING LEGEND

- INDICATES PROPOSED SODDING AREAS
- PROPOSED TREES
  SEE "GENERAL NOTES FOR TREE PLANTING AND LANDSCAPING" FOR APPROVED TREES AND INSTRUCTIONS.
- LIGHT UNIT, SEE "LIGHTING PLANS"
- DUAL LIGHT UNIT, SEE "LIGHTING PLANS"
- ComEd COMPANY PAD MOUNTED SERVICE
- PROPOSED LIGHTING CONTROLLER

N

0' 20' 40'



7 of 8

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN
STA 133+35 TO STA 139+35

SCALE: 1" = 20' DRAWN BY: JEB

DATE: APRIL 9, 2009 CHECKED BY: CMS

5924LL06.SHT

PLOT DATE = 4/13/2009
FILE NAME = G:\5#5924\CAD\5924LL06.SHT
PLOT SCALE = 20.2761 ' / IN.
USER NAME = IE Consultants

CONTRACT No. 63093

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1578	*	WILL	155	118
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

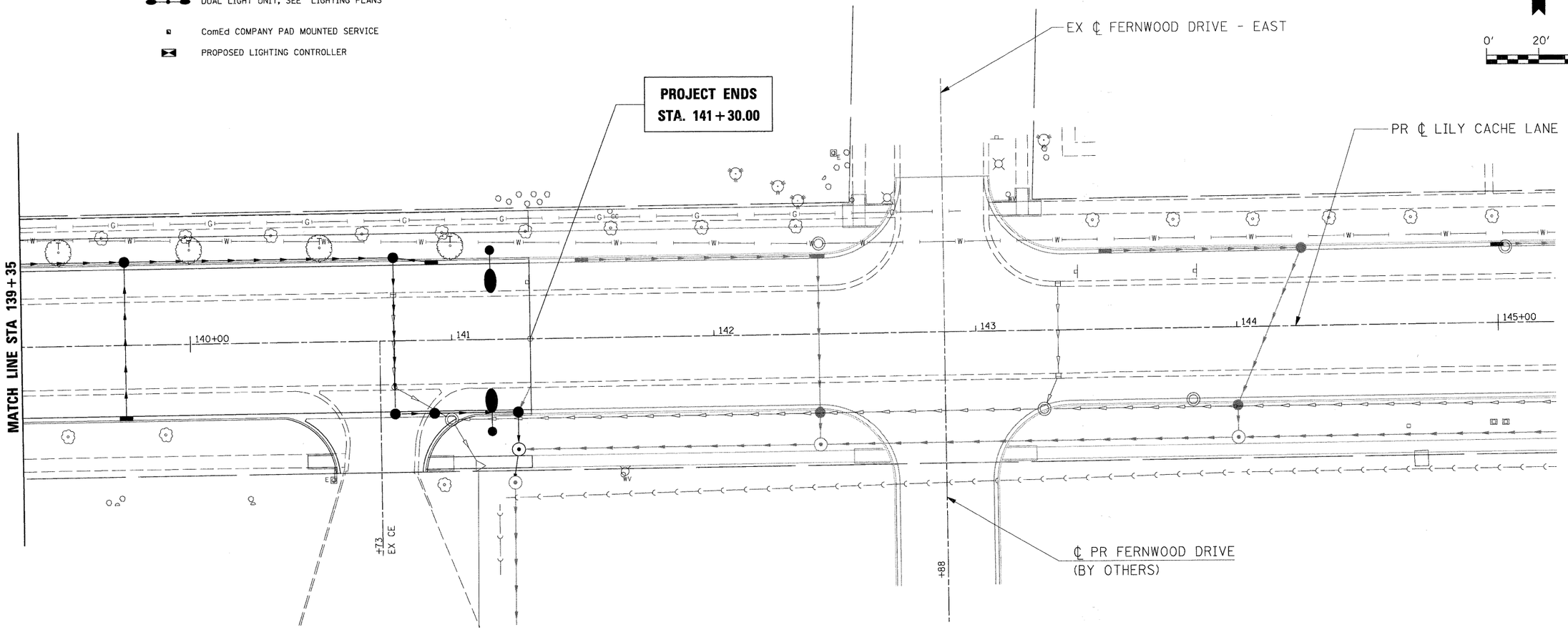
* 06-00046-00-PV

LANDSCAPING LEGEND

- INDICATES PROPOSED SODDING AREAS
- PROPOSED TREES
  SEE "GENERAL NOTES FOR TREE PLANTING AND LANDSCAPING" FOR APPROVED TREES AND INSTRUCTIONS.
- LIGHT UNIT, SEE "LIGHTING PLANS"
- DUAL LIGHT UNIT, SEE "LIGHTING PLANS"
- ComEd COMPANY PAD MOUNTED SERVICE
- PROPOSED LIGHTING CONTROLLER

N

0' 20' 40'



8 of 8

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN
STA 139+35 TO STA 145+10

SCALE: 1" = 20' DRAWN BY: JEB

DATE: APRIL 9, 2009 CHECKED BY: CMS

5824LL07.SHT

PLOT DATE = 4/13/2009
FILE NAME = G:\5#5824\CAD\5824LL07.SHT
PLOT SCALE = 20.0151 ' / IN.
USER NAME = IE Consultants

CONTRACT NO.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1578	*	WILL	155	119
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* 06-00046-00-PF

EXISTING EQUIPMENT LEGEND

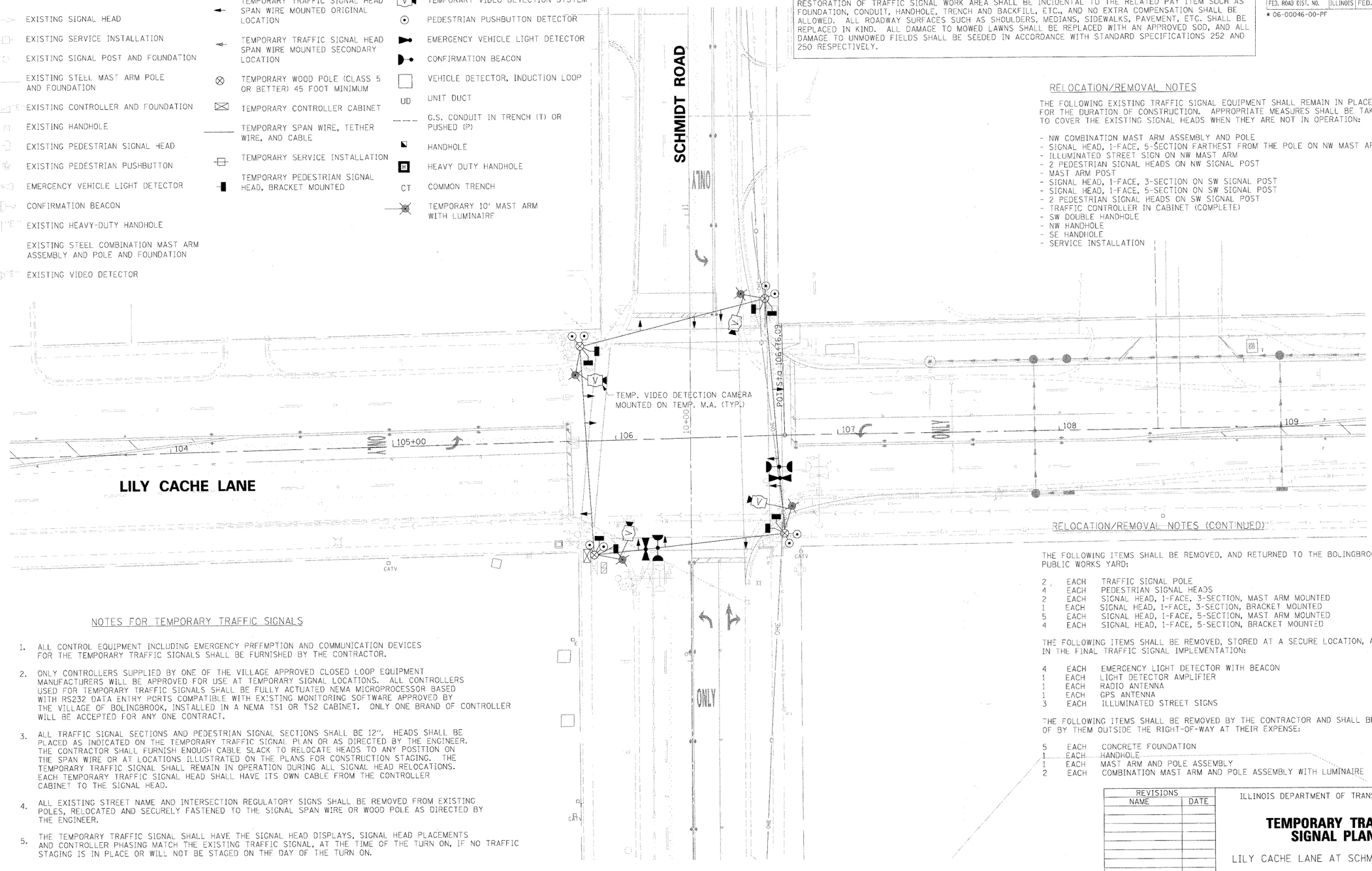
- EXISTING SIGNAL HEAD
- EXISTING SERVICE INSTALLATION
- EXISTING SIGNAL POST AND FOUNDATION
- EXISTING STEEL MAST ARM POLE AND FOUNDATION
- EXISTING CONTROLLER AND FOUNDATION
- EXISTING HANDHOLE
- EXISTING PEDESTRIAN SIGNAL HEAD
- EXISTING PEDESTRIAN PUSHBUTTON
- EMERGENCY VEHICLE LIGHT DETECTOR
- CONFIRMATION BEACON
- EXISTING HEAVY-DUTY HANDHOLE
- EXISTING STEEL COMBINATION MAST ARM ASSEMBLY AND POLE AND FOUNDATION
- EXISTING VIDEO DETECTOR

TEMPORARY TRAFFIC SIGNAL LEGEND

- TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED ORIGINAL LOCATION
- TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED SECONDARY LOCATION
- TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT MINIMUM
- TEMPORARY CONTROLLER CABINET
- TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE
- TEMPORARY SERVICE INSTALLATION
- TEMPORARY PEDESTRIAN SIGNAL HEAD, BRACKET MOUNTED
- TEMPORARY VIDEO DETECTION SYSTEM
- PEDESTRIAN PUSHBUTTON DETECTOR
- EMERGENCY VEHICLE LIGHT DETECTOR
- CONFIRMATION BEACON
- VEHICLE DETECTOR, INDUCTION LOOP
- UD — UNIT DUCT
- G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)
- HANDHOLE
- H — HEAVY DUTY HANDHOLE
- CT — COMMON TRENCH
- TEMPORARY 10' MAST ARM WITH LUMINAIRE

RESTORATION OF WORK AREA

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



RELOCATION/REMOVAL NOTES

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL REMAIN IN PLACE FOR THE DURATION OF CONSTRUCTION. APPROPRIATE MEASURES SHALL BE TAKEN TO COVER THE EXISTING SIGNAL HEADS WHEN THEY ARE NOT IN OPERATION:

- NW COMBINATION MAST ARM ASSEMBLY AND POLE
- SIGNAL HEAD, 1-FACE, 5-SECTION FARTHEST FROM THE POLE ON NW MAST ARM
- ILLUMINATED STREET SIGN ON NW MAST ARM
- 2 PEDESTRIAN SIGNAL HEADS ON NW SIGNAL POST
- MAST ARM POST
- SIGNAL HEAD, 1-FACE, 3-SECTION ON SW SIGNAL POST
- SIGNAL HEAD, 1-FACE, 5-SECTION ON SW SIGNAL POST
- 2 PEDESTRIAN SIGNAL HEADS ON SW SIGNAL POST
- TRAFFIC CONTROLLER IN CABINET (COMPLETE)
- SW DOUBLE HANDHOLE
- NW HANDHOLE
- SE HANDHOLE
- SERVICE INSTALLATION

RELOCATION/REMOVAL NOTES (CONTINUED)

THE FOLLOWING ITEMS SHALL BE REMOVED, AND RETURNED TO THE BOLINGBROOK PUBLIC WORKS YARD:

2	EACH	TRAFFIC SIGNAL POLE
4	EACH	PEDESTRIAN SIGNAL HEADS
2	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION, MAST ARM MOUNTED
1	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION, BRACKET MOUNTED
5	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION, MAST ARM MOUNTED
4	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION, BRACKET MOUNTED

THE FOLLOWING ITEMS SHALL BE REMOVED, STORED AT A SECURE LOCATION, AND RE-USED IN THE FINAL TRAFFIC SIGNAL IMPLEMENTATION:

4	EACH	EMERGENCY LIGHT DETECTOR WITH BEACON
1	EACH	LIGHT DETECTOR AMPLIFIER
1	EACH	RADIO ANTENNA
1	EACH	GPS ANTENNA
3	EACH	ILLUMINATED STREET SIGNS

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE:

5	EACH	CONCRETE FOUNDATION
1	EACH	HANDHOLE
1	EACH	MAST ARM AND POLE ASSEMBLY
2	EACH	COMBINATION MAST ARM AND POLE ASSEMBLY WITH LUMINAIRE

NOTES FOR TEMPORARY TRAFFIC SIGNALS

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PREEMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNALS SHALL BE FURNISHED BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE VILLAGE APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY THE VILLAGE OF BOLINGBROOK, INSTALLED IN A NEMA TS1 OR TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE 12". HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
5. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL PLAN

LILY CACHE LANE AT SCHMIDT ROAD

SCALE: 1"=20' DRAWN BY: NMR

DATE: 03/31/2009 CHECKED BY: DJL

$FILES$

PLOT DATE = 4/9/2009
FILE NAME = m:\x.consultants\d1825\cad\tbl\variables\d1825_Schmidt_TS_01.dgn
PLOT SCALE = 20.0000 ' / IN.
USER NAME = NMEHTA

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1578	*	WILL	155	120

CONTRACT NO.

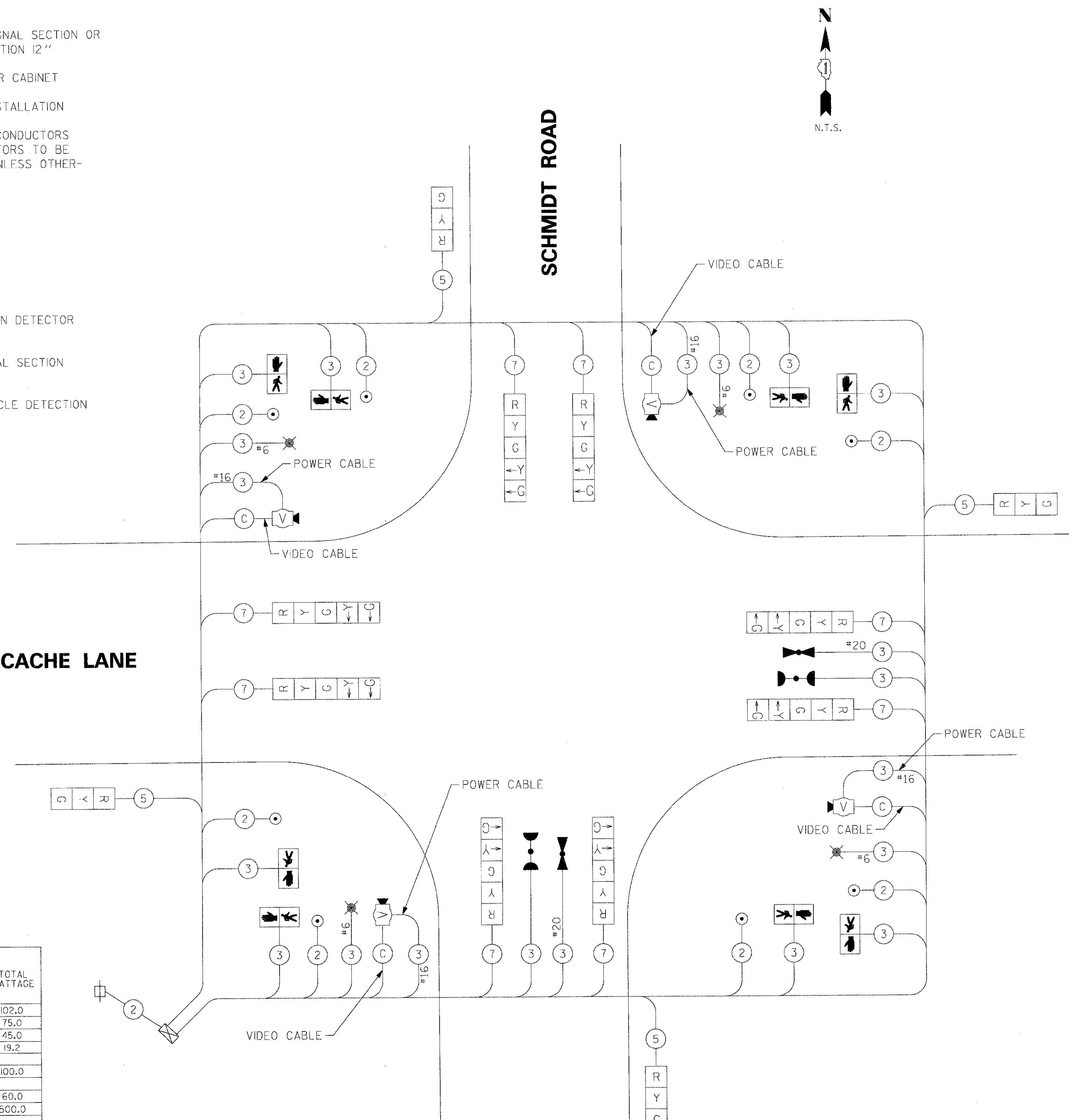
STA. TO STA.

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

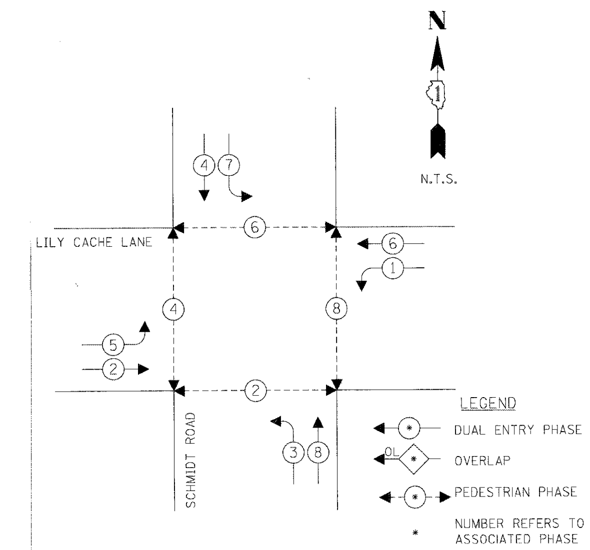
* 06-00046-00-PF

TEMPORARY CABLE DIAGRAM LEGEND

- R — TEMPORARY TRAFFIC SIGNAL SECTION OR PEDESTRIAN SIGNAL SECTION 12″
- TEMPORARY CONTROLLER CABINET
- TEMPORARY SERVICE INSTALLATION
- (5) — INDICATES NUMBER OF CONDUCTORS IN CABLE. ALL CONDUCTORS TO BE NUMBER 14 AWG WIRE UNLESS OTHERWISE NOTED.
- EMERGENCY VEHICLE LIGHT DETECTOR
- CONFIRMATION BEACON
- VEHICLE DETECTOR, INDUCTION LOOP
- PEDESTRIAN PUSHBUTTON DETECTOR
- 12″ PEDESTRIAN SIGNAL SECTION
- V — TEMPORARY VIDEO VEHICLE DETECTION
- TEMPORARY LUMINAIRE

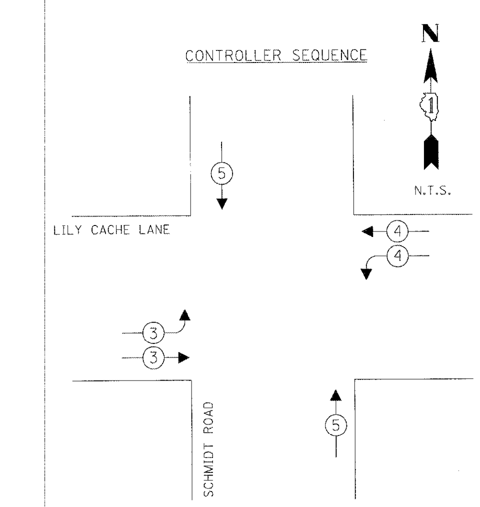


TEMPORARY CABLE PLAN



TEMPORARY PHASE DESIGNATION DIAGRAM

CONTROLLER SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT			

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE AFTER ORCHARD GATEWAY OPENING

TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	135	17	0.50	102.0
(YELLOW)	12	135	25	0.25	75.0
(GREEN)	12	135	15	0.25	45.0
ARROW	16	135	12	0.10	19.2
PED. SIGNAL					
CONTROLLER	1	100	100	1.00	100.0
ILLUM. SIGN					
VIDEO CAMERAS	4	15		1.00	60.0
LUMINAIRE	4	250		0.50	500.0
FLASHER					
				TOTAL=	901.2

ENERGY COSTS TO:
VILLAGE OF BOLINGBROOK

ENERGY SUPPLY CONTACT:
PHONE:
COMPANY:

PLOT DATE = 4/9/2009
FILE NAME = m:\ie_consultants\d-1025\cad\deliverables\d1025_Schmidt_TS_02.dgn
PLOT SCALE = 20.0000 ' / IN.
USER NAME = $USER$

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN

LILY CACHE LANE AT SCHMIDT ROAD

SCALE: N.T.S. DRAWN BY: NWR

DATE: 03/31/2009 CHECKED BY: DJL

$FILES$

CONTRACT NO.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1578	*	WILL	155	121

STA. TO STA.

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

* 06-00046-00-PF

TRAFFIC SIGNAL LEGEND

(PROPOSED / EXISTING)

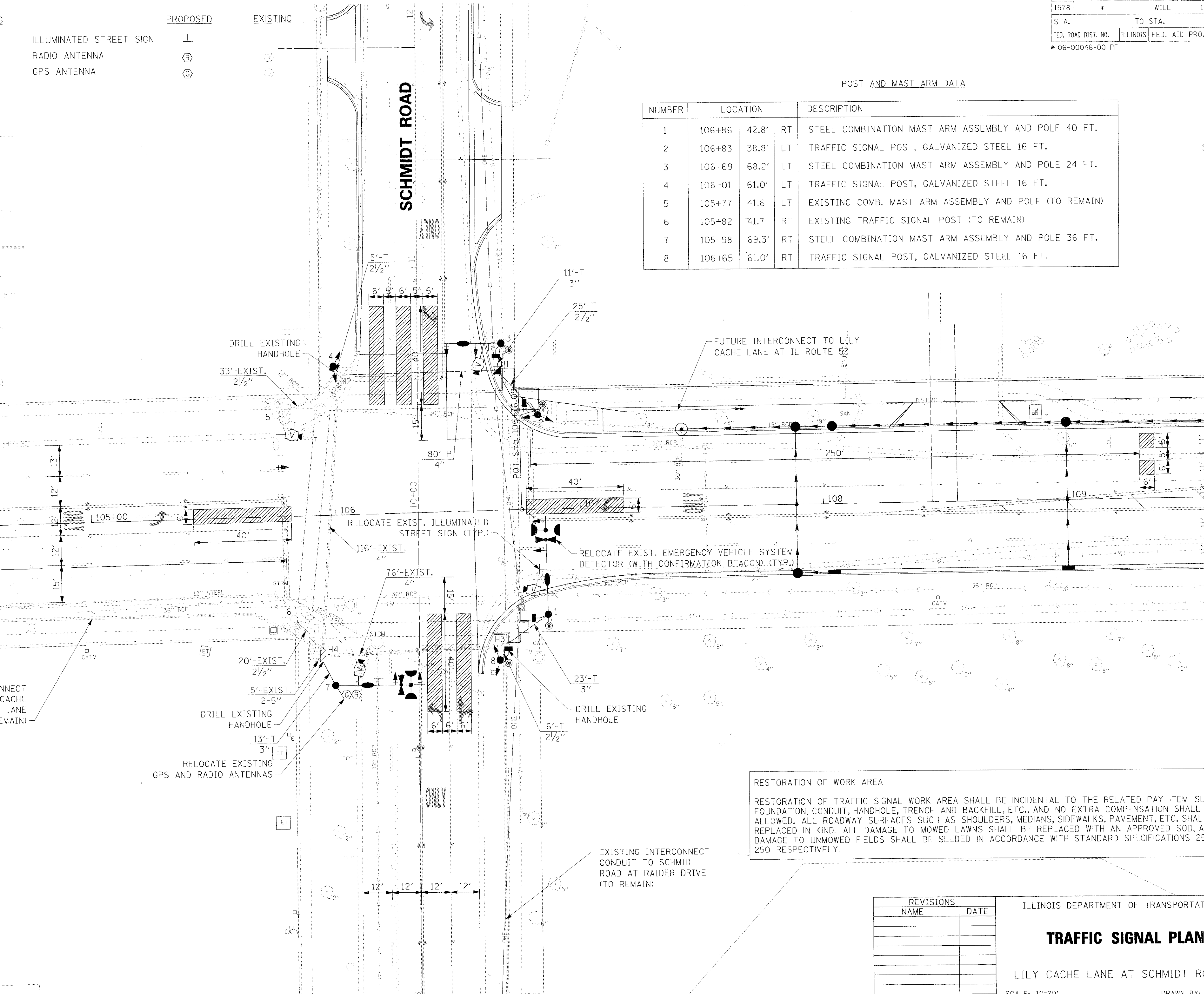
- CONTROLLER
- POWER POLE
- SIGNAL HEAD
- SIGNAL HEAD WITH BACKPLATE
- SIGNAL HEAD, PEDESTRIAN
- SIGNAL POST (16' UNLESS OTHERWISE NOTED)
- COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL
- MAST ARM ASSEMBLY AND POLE, STEEL
- COMMON TRENCH — CT
- UNIT DUCT — UD
- HANDHOLE
- HEAVY DUTY HANDHOLE
- DOUBLE HANDHOLE
- G.S. CONDUIT IN TRENCH OR PUSHED
- PEDESTRIAN PUSHBUTTON DETECTOR
- DETECTOR LOOP
- CAST IRON JUNCTION BOX
- EMERGENCY VEHICLE SYSTEM DETECTOR
- CONFIRMATION BEACON
- LUMINAIRE
- TELEPHONE CONNECTION
- VIDEO DETECTION SENSOR
- VIDEO DETECTION ZONE
- ILLUMINATED STREET SIGN
- RADIO ANTENNA
- GPS ANTENNA

POST AND MAST ARM DATA

NUMBER	LOCATION			DESCRIPTION
1	106+86	42.8'	RT	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 40 FT.
2	106+83	38.8'	LT	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
3	106+69	68.2'	LT	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 24 FT.
4	106+01	61.0'	LT	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
5	105+77	41.6	LT	EXISTING COMB. MAST ARM ASSEMBLY AND POLE (TO REMAIN)
6	105+82	41.7	RT	EXISTING TRAFFIC SIGNAL POST (TO REMAIN)
7	105+98	69.3'	RT	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT.
8	106+65	61.0'	RT	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.

N

SCALE: 1"=20'



HANDHOLE DATA

NUMBER	LOCATION			DESCRIPTION
H1	106+67	57.0'	LT	STANDARD HANDHOLE
H2	106+03	57.4'	LT	DRILL EXISTING HANDHOLE
H3	106+67	55.7'	RT	DRILL EXISTING HANDHOLE
H4	105+93	57.2'	RT	DRILL EXISTING HANDHOLE

RESTORATION OF WORK AREA

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

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLAN

LILY CACHE LANE AT SCHMIDT ROAD

SCALE: 1"=20' DRAWN BY: NMR

DATE: 03/31/2009 CHECKED BY: DJL

PLOT DATE = 4/9/2009
FILE NAME = m:\ie.consultants\d:1025\cad\deliverables\d1025_Schmidt_TS_03.dgn
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USER NAME = $USER$

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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1578	*	WILL	155	122

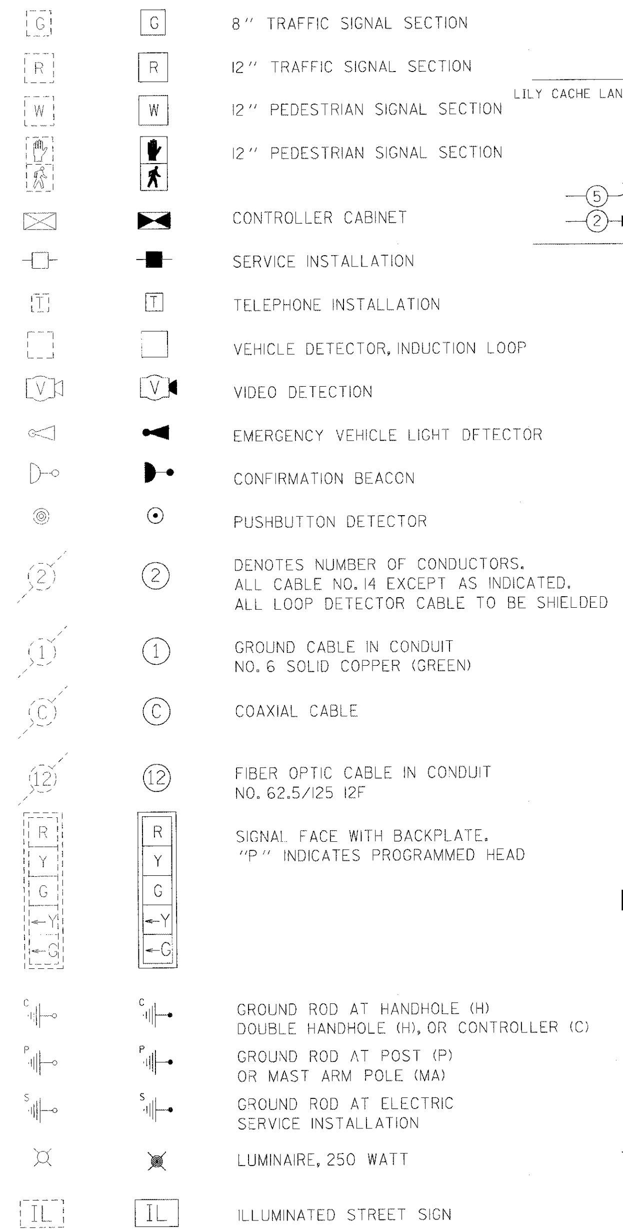
CONTRACT NO.

STA. TO STA.

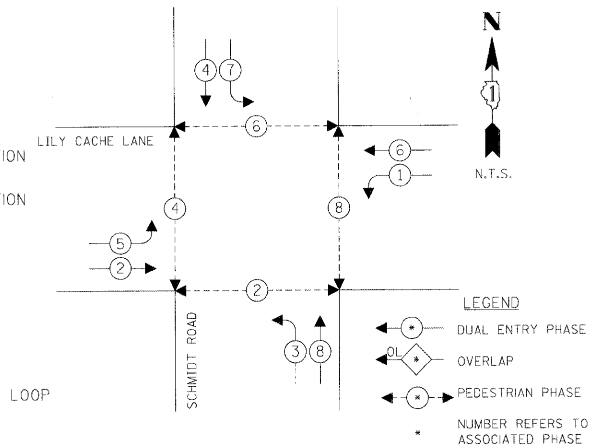
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

* 06-00046-00-PF

CABLE PLAN LEGEND



CONTROLLER SEQUENCE

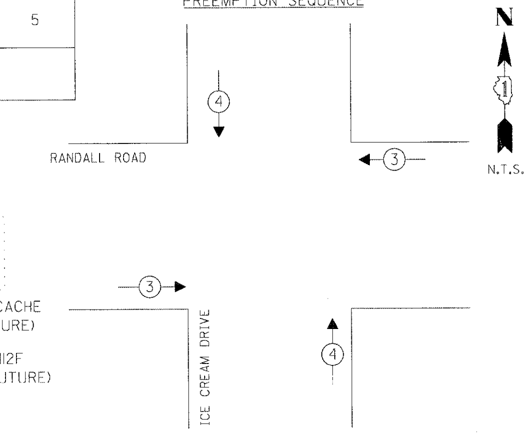


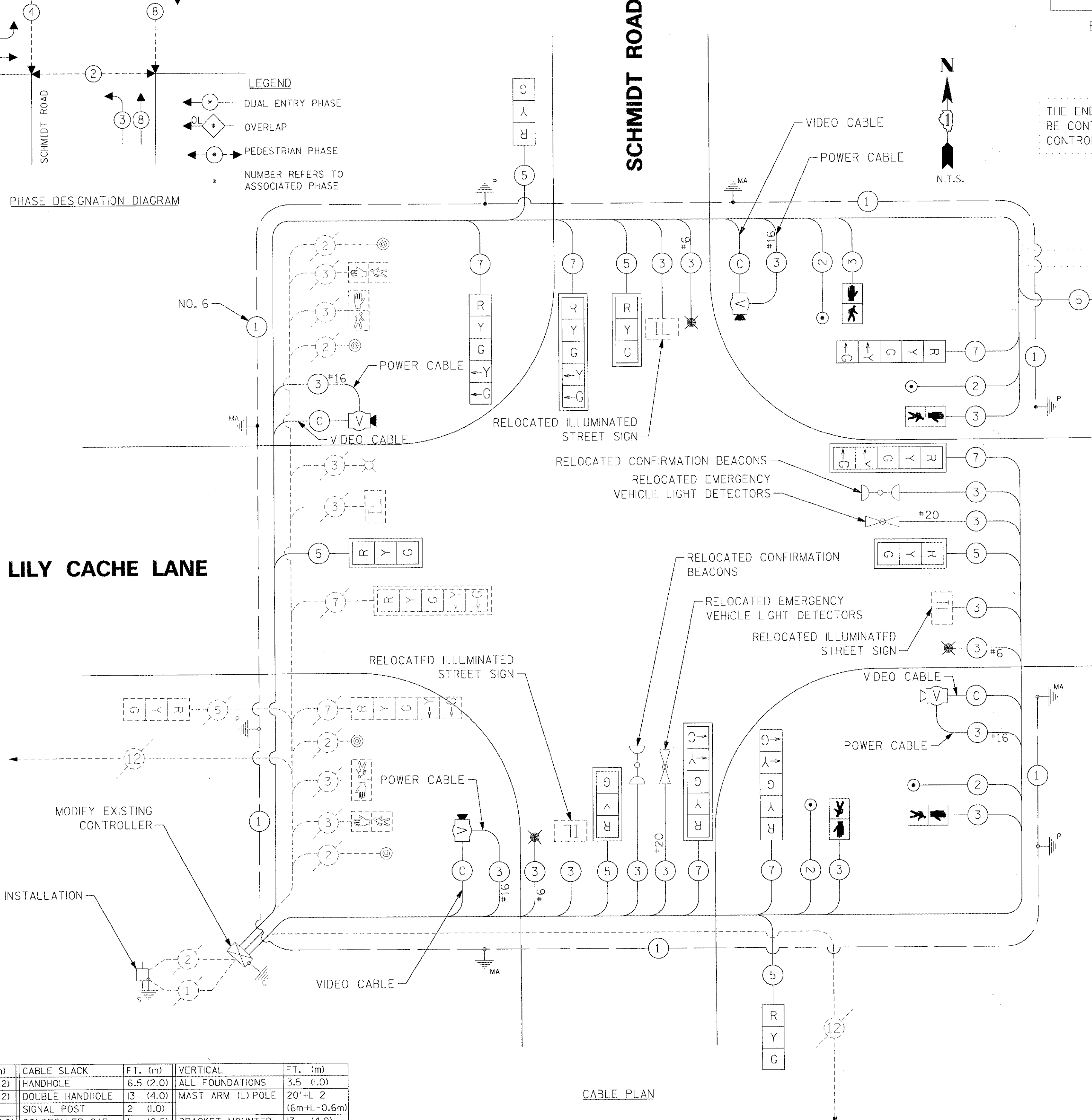
PHASE DESIGNATION DIAGRAM

PROPOSED EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT			

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTION SEQUENCE





CABLE PLAN

TRAFFIC SIGNAL BILL OF MATERIALS

	PAY ITEM NO.	ITEM	UNIT	TOTAL
	81000700	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	36
	81000800	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	47
	81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	80
	81400700	HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	1
	81702415	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1C NO. 6	FOOT	593
	81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	62
	82102250	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	EACH	3
	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	747
	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,845
	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,310
	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,125
	87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3
	87702850	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 24 FT.	EACH	1
	87702910	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT.	EACH	1
	87702930	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 40 FT.	EACH	1
	87800100	CONCRETE FOUNDATION, TYPE A	FOOT	12
*	87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	45
	87900200	DRILL EXISTING HANDHOLE	EACH	3
	88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3
	88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	4
	88040150	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3
	88040160	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	3
	88102820	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED 1-FACE, 2-SECTION BRACKET MOUNTED	EACH	4
	88200100	TRAFFIC SIGNAL BACKPLATE	EACH	7
	88800100	PEDESTRIAN PUSH-BUTTON	EACH	4
	89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
	89500300	RELOCATE EXISTING ILLUMINATED SIGN	EACH	3
*	89501400	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	4
	89502200	MODIFY EXISTING CONTROLLER	EACH	1
*	89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
*	89502380	REMOVE EXISTING HANDHOLE	EACH	1
*	89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	5
*	X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	519
	XX003552	VIDEO DETECTION SYSTEM	EACH	1
	XX003661	ELECTRIC CABLE IN CONDUIT, COAXIAL	FOOT	122
*	XX005660	ELECTRIC CABLE IN CONDUIT, NO. 20 3/C TWISTED SHIELD	FOOT	541

NOTES

1. CABLE AND CONDUIT TO REMAIN HAS NOT BEEN CALCULATED. CALCULATED AMOUNTS OF CABLE AND CONDUIT ARE FOR NEW AND RELOCATED TRAFFIC SIGNAL ITEMS. QUANTITIES ARE INCLUDED FOR REFERENCE ONLY AND MUST BE VERIFIED BY THE CONTRACTOR. EXISTING ITEMS ARE BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THAT ANY ITEMS TO BE RE-USED OR RE-LOCATED EXIST AND ARE IN AN OPERABLE CONDITION.

2. SEE BELOW TABLE FOR PROPOSED ITEMS NEEDED FOR THE VIDEO DETECTION SYSTEM.

AUTOSCOPE VIDEO DETECTION SYSTEM BILL OF MATERIALS

ITEM	UNIT	QUANTITY
MACHINE VISION PROCESSOR	EACH	1
AUTOSCOPE IMAGE SENSOR	EACH	4
VIDEO ELECTRIC CABLE IN CONDUIT, NO. 16 3/C	FOOT	834
VIDEO BELDEN 8281 COAXIAL CABLE IN CONDUIT	FOOT	834

TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	16	135	17	0.50	136.0
(YELLOW)	16	135	25	0.25	100.0
(GREEN)	16	135	15	0.25	60.0
ARROW	12	135	12	0.10	14.4
PED. SIGNAL					
CONTROLLER	1	100	100	1.00	100.0
ILLUM. SIGN	4		88	0.50	176.0
VIDEO CAMERA	4	15		1.00	60.0
LUMINAIRE	4	250		0.50	500.0
FLASHER					
				TOTAL=	1,146.4

ENERGY COSTS TO:
VILLAGE OF BOLINGBROOK

ENERGY SUPPLY CONTACT:
PHONE:
COMPANY:

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20′+L-2 (6m+L-0.6m)
E - M. ARM POLE		SIGNAL POST	2 (1.0)		
24″ (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
30″ (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	PED. BUTTON	4 (1.2)
36″ (900mm)	15 (4.6)	ELECTRIC SERVICE	1 (0.5)	ELECTRICAL SERVICE	13.5 (4.1)
		GROUND CABLE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
				POST MOUNTED	6 (1.8)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL CABLE PLAN

LILY CACHE LANE AT SCHMIDT ROAD

SCALE: N.T.S. DRAWN BY: NMR

DATE: 03/31/2009 CHECKED BY: DJL

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CONTRACT NO.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1578	*	WILL	155	123
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* 06-00046-00-PF

LIGHTING LEGEND

PROPOSED

LIGHT POLE AND LUMINAIRE, TYPE A

LIGHT POLE AND LUMINAIRE, TYPE B

LIGHTING CONTROLLER

UNIT DUCT IN TRENCH

UNIT DUCT IN CONDUIT (PUSHED)

UNIT DUCT LEGEND

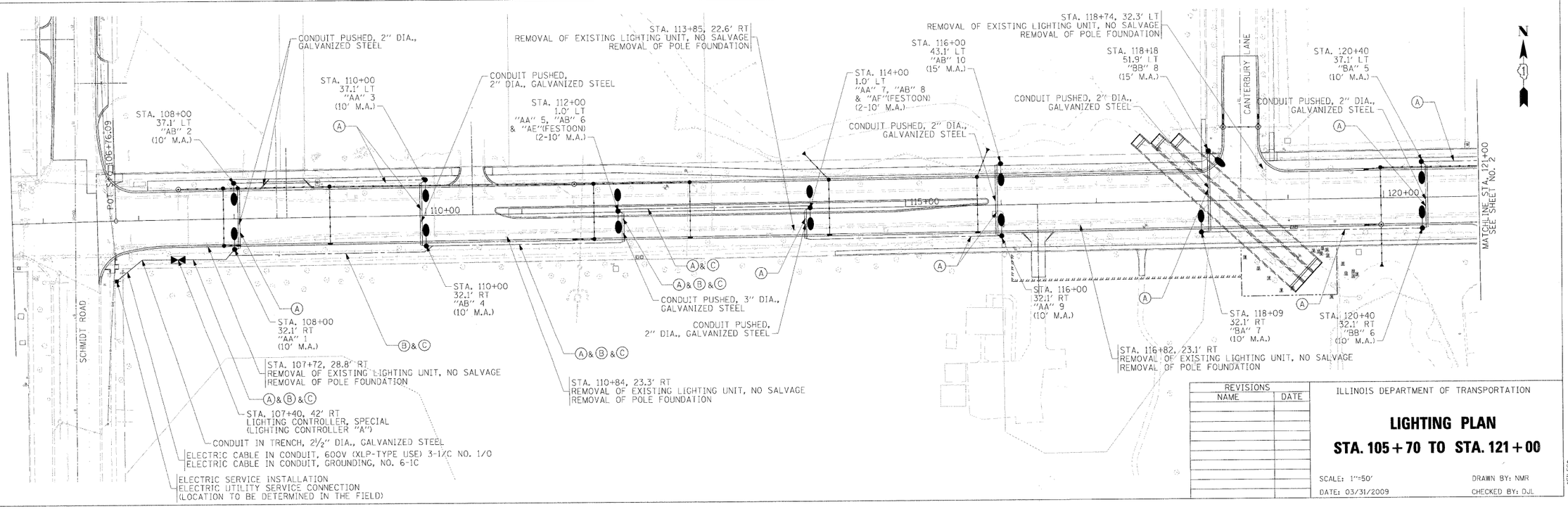
Ⓐ UNIT DUCT, 600V, 3-1C NO. 8, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE

Ⓑ UNIT DUCT, 600V, 2-1C NO. 6, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE

Ⓒ UNIT DUCT, 600V, 2-1C NO. 4, 1/C NO. 4 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE

LIGHTING SUMMARY OF QUANTITIES

	PAY ITEM NO.	ITEM	UNIT	TOTAL
	80400100	ELECTRIC SERVICE INSTALLATION	EACH	2
*	80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1
	81000700	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	100
	81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	1,266
	81018700	CONDUIT PUSHED, 3" DIA., GALVANIZED STEEL	FOOT	60
	81603025	UNIT DUCT, 600V, 2-1C NO. 4, 1/C NO. 4 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	720
	81603035	UNIT DUCT, 600V, 2-1C NO. 6, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	1,116
	81603060	UNIT DUCT, 600V, 3-1C NO. 8, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	4,612
	81702440	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 1/0	FOOT	100
	81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	3,303
	82102250	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	EACH	34
*	82500505	LIGHTING CONTROLLER, SPECIAL	EACH	2
	83007400	LIGHT POLE, ALUMINUM, 35 FT. M.H., 10 FT. MAST ARM	EACH	24
		LIGHT POLE, ALUMINUM, 35 FT. M.H., 10 FT. MAST ARM - TWIN	EACH	4
	83007600	LIGHT POLE, ALUMINUM, 35 FT. M.H., 15 FT. MAST ARM	EACH	2
	83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	520
	84200600	REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE	EACH	11
	84200700	LIGHTING FOUNDATION REMOVAL	EACH	11
*	X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	100



REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

LIGHTING PLAN

STA. 105+70 TO STA. 121+00

SCALE: 1"=50'

DRAWN BY: NMR

DATE: 03/31/2009

CHECKED BY: DJL

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CONTRACT NO.

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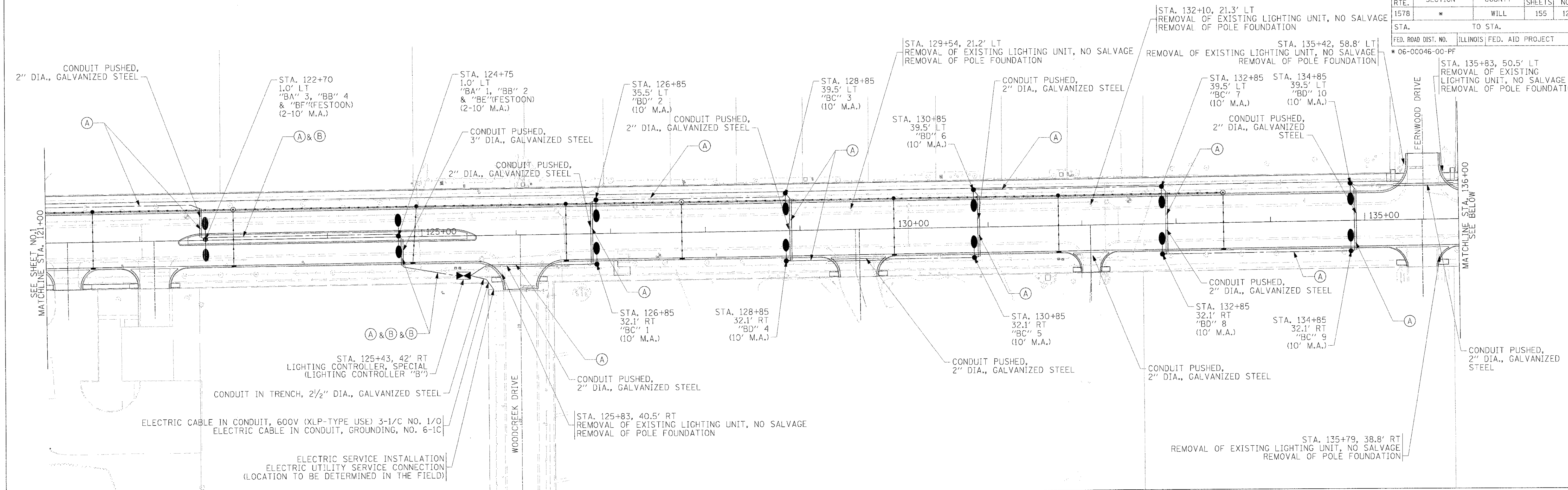
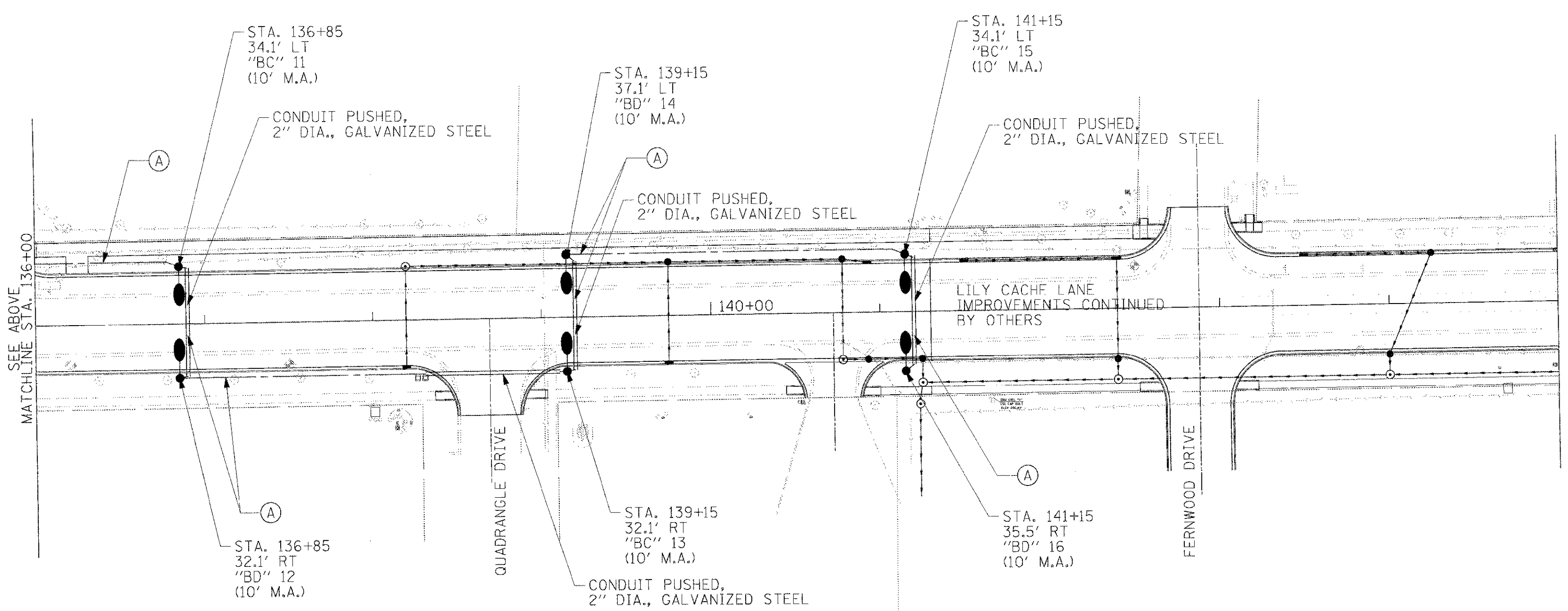
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* 06-00046-00-PF





LIGHTING LEGEND — PROPOSED

- LIGHT POLE AND LUMINAIRE, TYPE A
- LIGHT POLE AND LUMINAIRE, TYPE B
- LIGHTING CONTROLLER
- UNIT DUCT IN TRENCH
- UNIT DUCT IN CONDUIT (PUSHED)

UNIT DUCT LEGEND

- (A) UNIT DUCT, 600V, 3-1C NO. 8, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- (B) UNIT DUCT, 600V, 2-1C NO. 6, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- (C) UNIT DUCT, 600V, 2-1C NO. 4, 1/C NO. 4 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE

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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

LIGHTING PLAN

STA. 121+00 TO STA. 145+00

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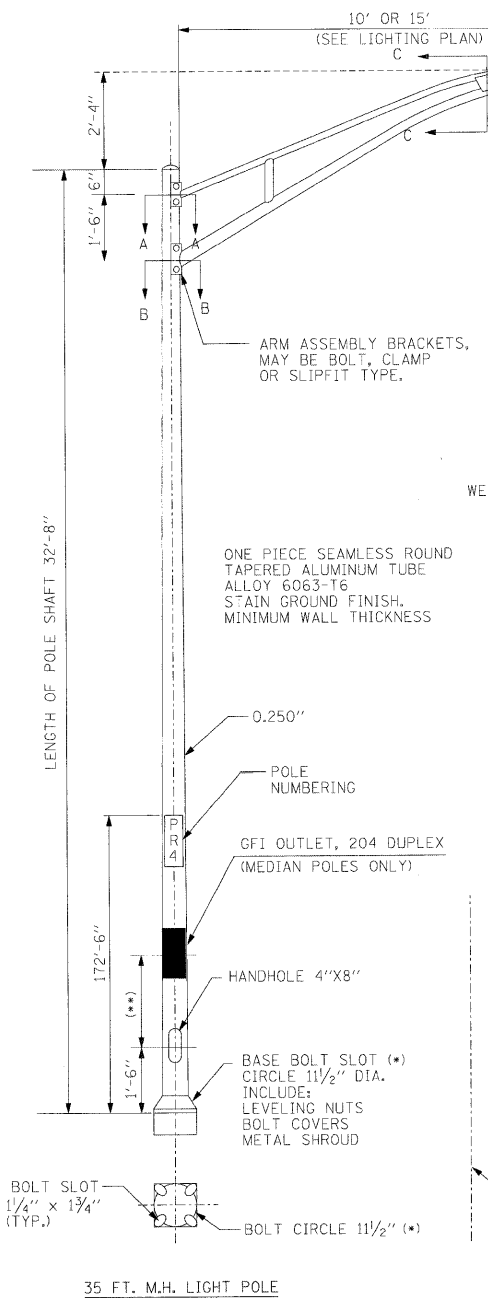
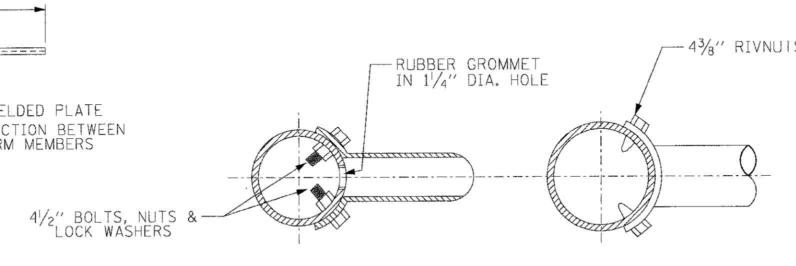
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* 06-00046-00-PF

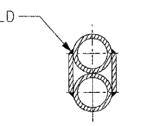


35 FT. M.H. LIGHT POLE



SECTION A-A

SECTION B-B



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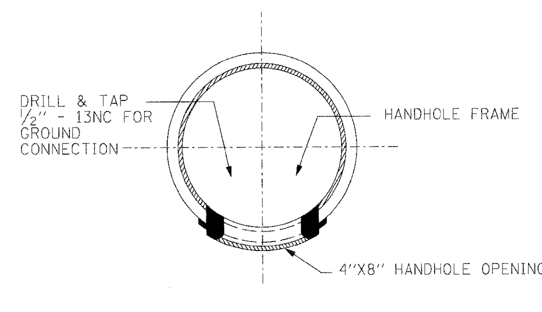
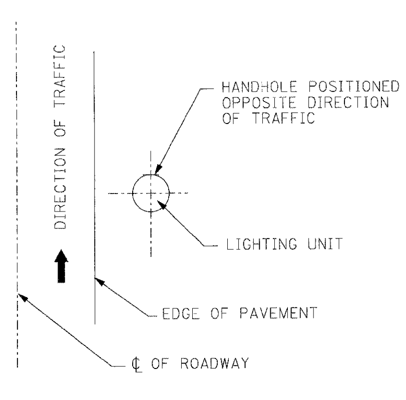


SECTION THROUGH HANDHOLE

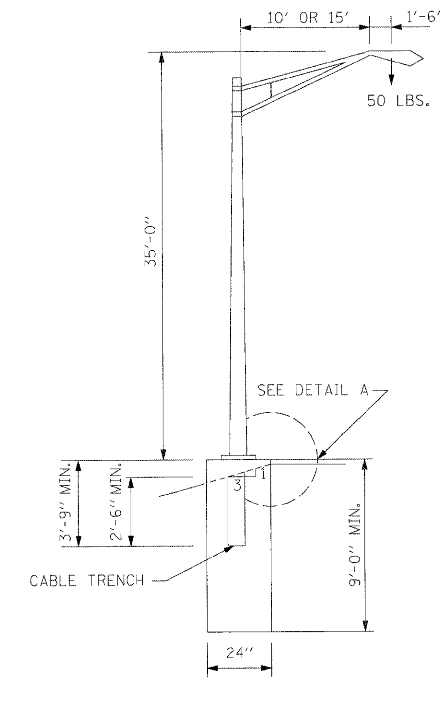


HANDHOLE POSITION

OUTSIDE MOUNTED POLES SHOWN, MEDIAN MOUNTED POLES HAVE DUAL MAST ARMS.

(*) MEDIAN MOUNTED POLES TO HAVE SLOTTED BOLT HOLES TO ACCEPT 13" TO 15" DIA. BOLT CIRCLE.

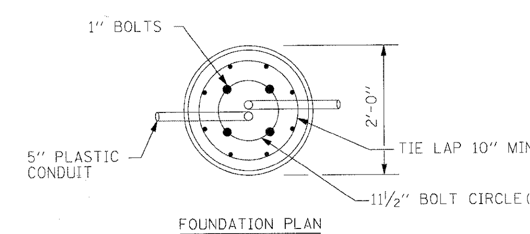
(**) GFS OUTLETS TO BE INCLUDED BY POLE MANUFACTURER AND LOCATED AS CLOSE TO POLE HANDHOLE AS POSSIBLE.



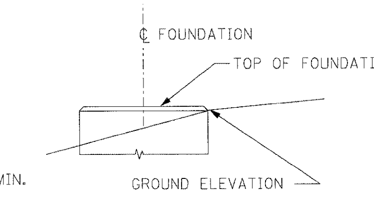
ELEVATION

DESIGN TABLE

TYPE OF SOIL	DESIGN DEPTH OF FOUNDATION		REINFORCEMENT IN FOUNDATION			
			SINGLE ARM		TWIN ARM	
	SINGLE ARM D	TWIN ARM D	VERT. BARS	SPIRAL	VERT. BARS	SPIRAL
SOFT CLAY	17'-0"	19'-6"	8-#8X16'-0"	#4X15'-7"	8-#8X13'-6"	#4X17'-5"
MEDIUM CLAY	12'-0"	13'-6"	8-#8X14'-0"	#4X11'-0"	8-#8X12'-6"	#8X12'-0"
STIFF CLAY	8'-3"	9'-6"	8-#8X 7'-6"	#4X 7'-8"	8-#8X 9'-0"	#4X 9'-2"
LOOSE SAND	10'-9"	12'-0"	8-#8X10'-0"	#4X10'-2"	8-#8X11'-0"	#4X11'-0"
MEDIUM SAND	9'-3"	10'-0"	8-#8X 8'-6"	#4X 8'-8"	8-#8X 9'-6"	#4X 9'-7"
DENSE SAND	8'-0"	9'-3"	8-#8X 7'-6"	#4X 7'-8"	8-#8X 6'-6"	#4X 8'-0"
ROCK OR SOLIDIFIED SLAG	5'-0"	5'-0"	NONE	NONE	NONE	NONE



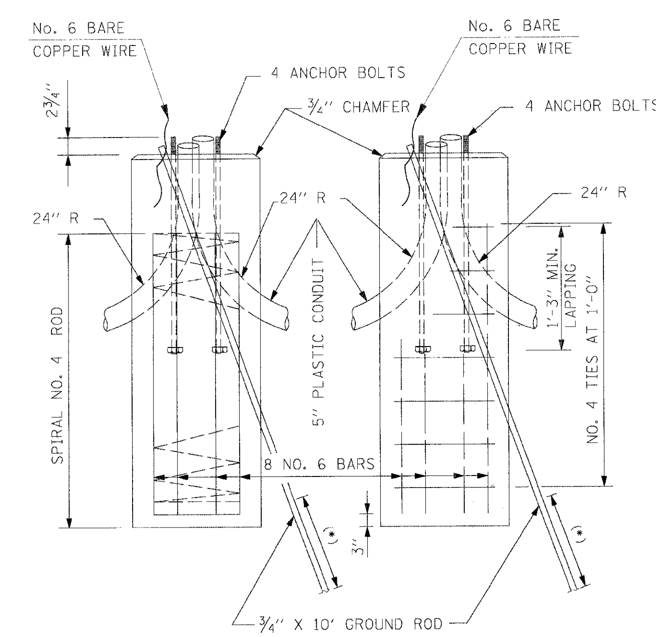
FOUNDATION PLAN



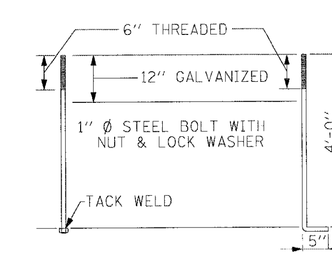
DETAIL A

NOTES

1. THE DESIGN DEPTH D OF FOUNDATION SHALL BE INCREASED BY VALUE OF X ACCORDING TO LOCAL CONDITIONS.
2. CABLE TRENCH SHALL BE BACKFILLED AND COMPACTED BEFORE LIGHT STANDARD IS ERECTED.
3. THE ANCHOR BOLTS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED IN THE FORM.
4. AT THE OPTION OFTHE CONTRACTOR, REINFORCEMENT TIES MAY BE SUBSTITUTED WITH NO. 4 SPIRAL, AND TACK WELDED TYPE BOLT MAY BE SUBSTITUTED WITH HOOK TYPE BOLT.
5. COLD BENDING OF HOOK BOLT IS NOT ALLOWED.
6. THE ENGINEER SHALL DETERMINE THE TYPE OF SOIL DURING EXCAVATION AND SELECT THE DESIGN DEPTH OF FOUNDATION FROM THE DESIGN TABLE USING THE DOMINANT CHARACTERISTIC OF THE SOIL ENCOUNTERED.
7. LIGHT STANDARDS SHALL BE MANUFACTURED BY "VALMONT" OR "FPI".
8. LUMANAIRES SHALL BE "GE".



(*) A MINIMUM OF 6' OF THE GROUND ROD MUST BE IN CONTACT WITH EARTH.



ANCHOR BOLTS DETAIL (4 EA. FOUNDATION)

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

LIGHTING DETAILS

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DATE: 03/31/2009
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CHECKED BY: DJL

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CONTRACT NO.

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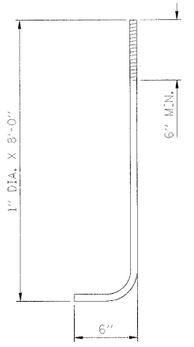
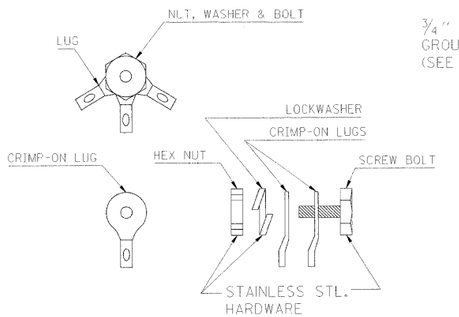
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

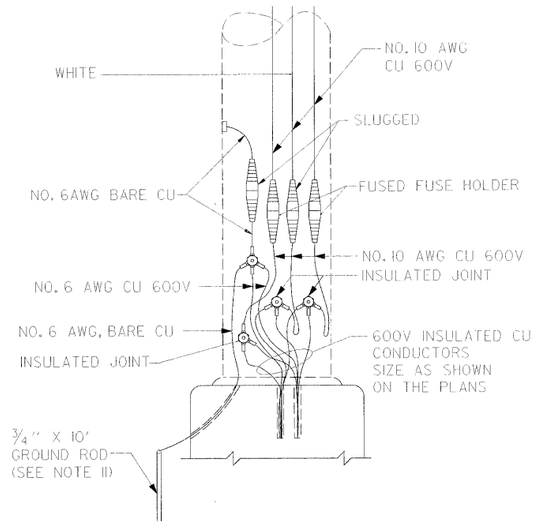
* 06-00046-00-PF



ANCHOR DETAIL
NOT TO SCALE



JOINT ASSEMBLY DETAILS
NOT TO SCALE



POLE BASE WIRING DIAGRAM
NOT TO SCALE

FOUNDATION NOTES:

1. EXCAVATION OF THE POLE FOUNDATION SHALL BE MADE WITH AN AUGER, 24" IN DIAMETER.
2. THE CONTRACTOR SHALL USE #4 SPIRAL 6" PITCH OR AT HIS OPTION MAY SUBSTITUTE #4 TIES AT 12" O/C
3. THE ANCHOR SHALL BE A HOOK TYPE BOLT. COLD BENDING OF THE HOOK WILL NOT BE ALLOWED.
4. THE ANCHOR BOLTS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE PRIOR TO PLACEMENT OF CONCRETE.
5. THE ENTIRE LENGTH OF THE ANCHOR BOLTS, AS WELL AS THE NUTS AND WASHERS, SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM DESIGNATION A 153.
6. CONCRETE SHALL BE CLASS "SI". CONCRETE FOUNDATION SHALL BE CURED FOR TEN (10) DAYS BEFORE THE LIGHT STANDARD IS ERECTED.
7. THE CABLE TRENCH SHALL BE BACKFILLED AND COMPACTED BEFORE THE LIGHT IS ERECTED.
8. ANCHOR BOLTS SHALL PROJECT 2¾" ABOVE THE TOP OF THE FOUNDATION(SEE NOTE 10).
9. RACEWAYS SHALL PROJECT 1" ABOVE THE TOP OF THE FOUNDATION.
10. THE CONTRACTOR SHALL COORDINATE THE EXTENSION OF THE ANCHOR BOLTS ABOVE THE TOP OF FOUNDATION WITH THE MANUFACTURER'S REQUIREMENTS FOR THE BREAKAWAY DEVICE.
11. CADWELD NO. 6 BARE COPPER GROUND CABLE TO GROUND ROD.

TYPICAL WIRING IN TRENCH DETAIL
NOT TO SCALE

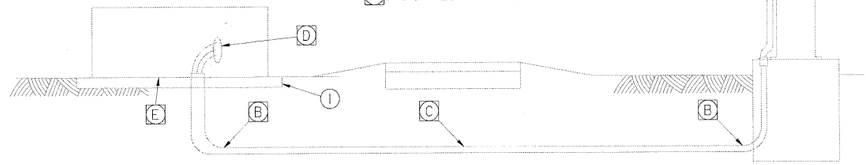
CONTRACTOR SHALL FURNISH AND INSTALL

- (A) LIGHTING CONTROLLER INCLUDING FOUNDATION AND METER CABINET WITH CONNECTION DEVICES, WIRES AND FITTINGS.
- (B) CONDUIT IN TRENCH - 2½" DIA.
- (C) CONDUIT PUSHED - 2½" DIA., IF REQUIRED
- (D) ELECTRIC CABLE - CABLES FROM INSIDE THE CONTROLLER TO TOP OF STEEL CONDUIT AND ENOUGH CABLE FOR CONNECTION TO THE TRANSFORMER.
- (E) ELECTRIC SERVICE INSTALLATION
- (I) PCC TRANSFORMER PAD

EDISON COMPANY SHALL FURNISH AND INSTALL (FREE OF CHARGE):

- (2) ELECTRIC SERVICE INSTALLATION: TRANSFORMER, CUT-OUT SWITCH, LIGHTNING ARRESTER, GROUNDING EQUIPMENT, INSULATORS, WIRES, HOUSING, HARDWARE AND ANY OTHER EQUIPMENT AND LABOR DEEMED NECESSARY.

◯ INDICATES PAY ITEM



ELECTRIC SERVICE INSTALLATION

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

LIGHTING DETAILS

SCALE: N.T.S. DRAWN BY: NVR
DATE: 03/31/2009 CHECKED BY: DJL

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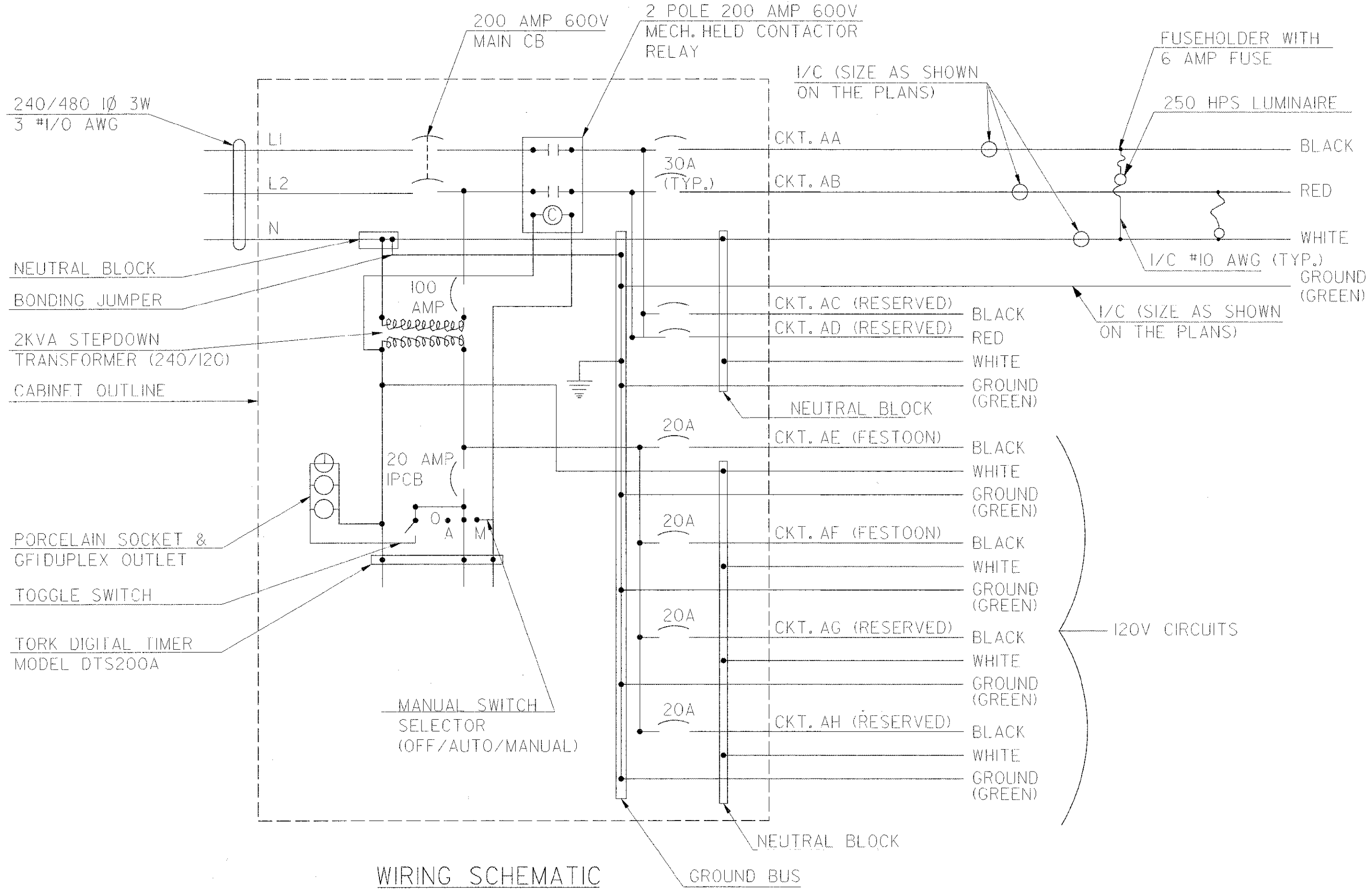
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1578	*	WILL	155	127

CONTRACT NO.

STA. TO STA.

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

* 06-00046-00-PF



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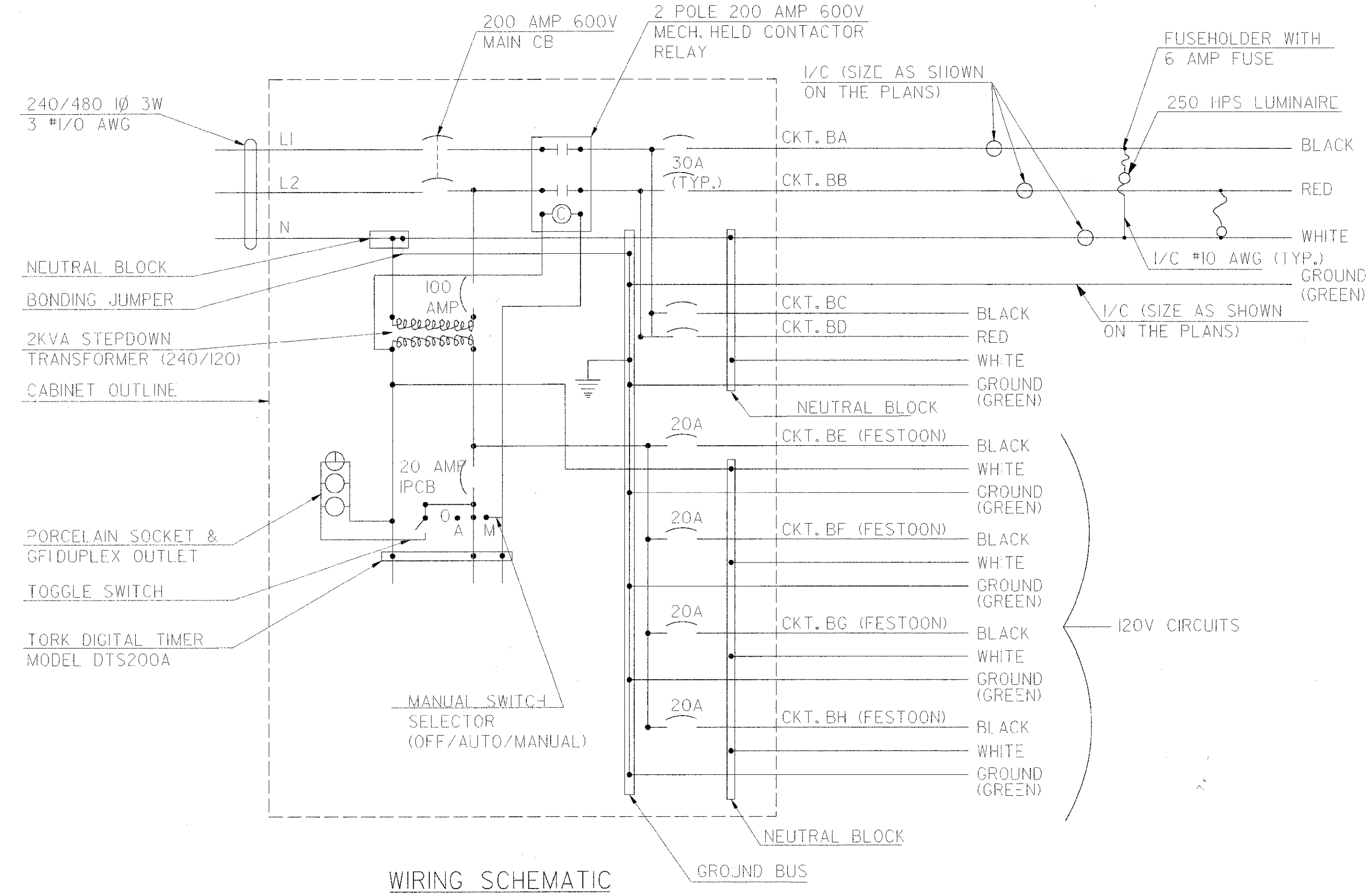
NOT TO SCALE



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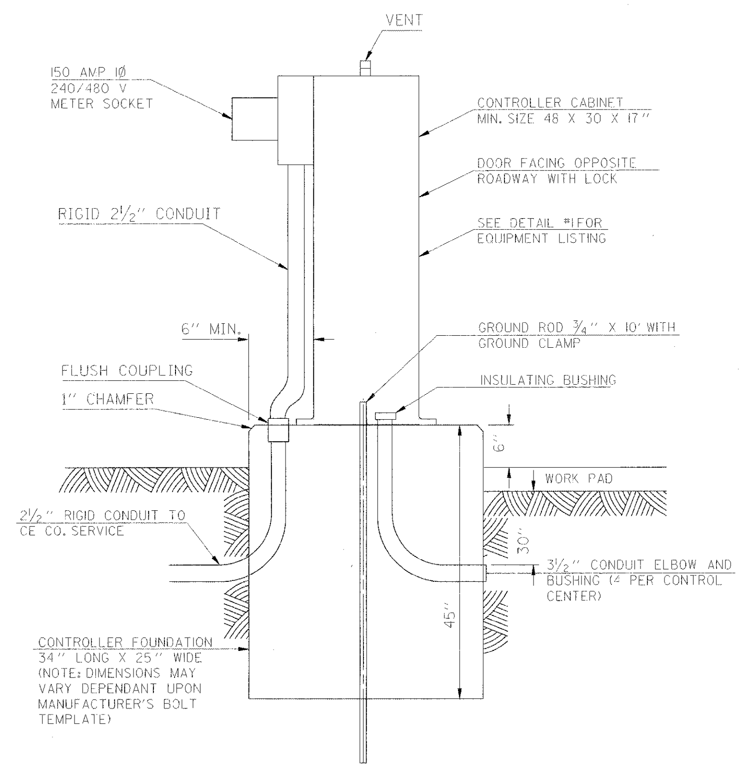
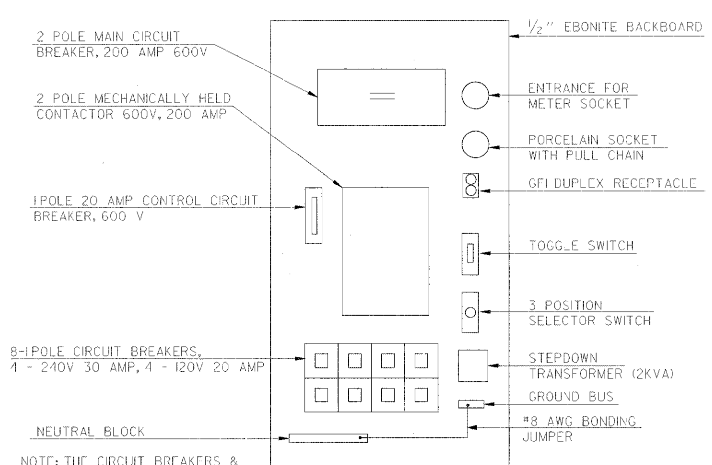


LIGHTING CONTROL CENTER
NOT TO SCALE



NOTE: THE CIRCUIT BREAKERS & FRAMES SHALL HAVE A 10,000 AMP I.C. RATING

CONTROL CENTER EQUIPMENT LAYOUT
DETAIL #1

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

LIGHTING DETAILS

SCALE: N.T.S.
DATE: 03/31/2009
DRAWN BY: NMR
CHECKED BY: DJL

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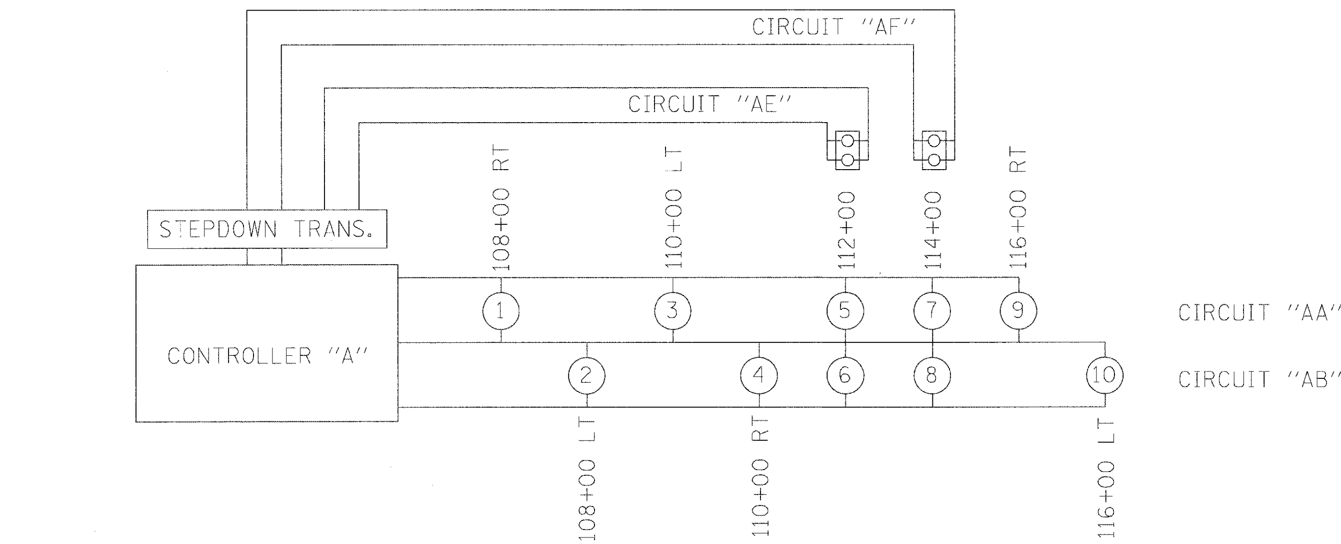
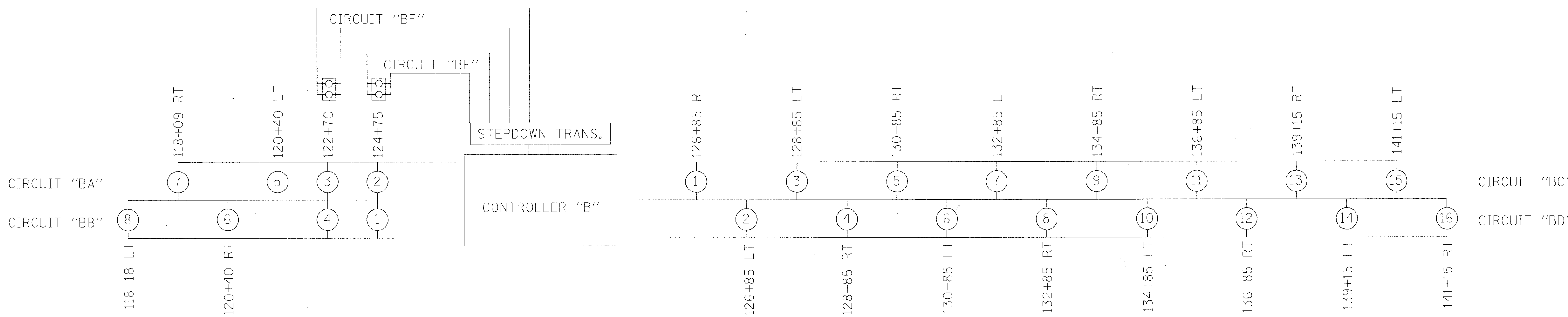
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1578	*	WILL	155	128
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO.

* 06-00046-00-PF





REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

LIGHTING DETAILS

SCALE: N.T.S.
DATE: 03/31/2009

DRAWN BY: NMR
CHECKED BY: DJL

$FILES$

B.M. 30 - Chis. "4" North End of westerly CMP Culvert Lt. Sta. 117+54 Elev. 671.18

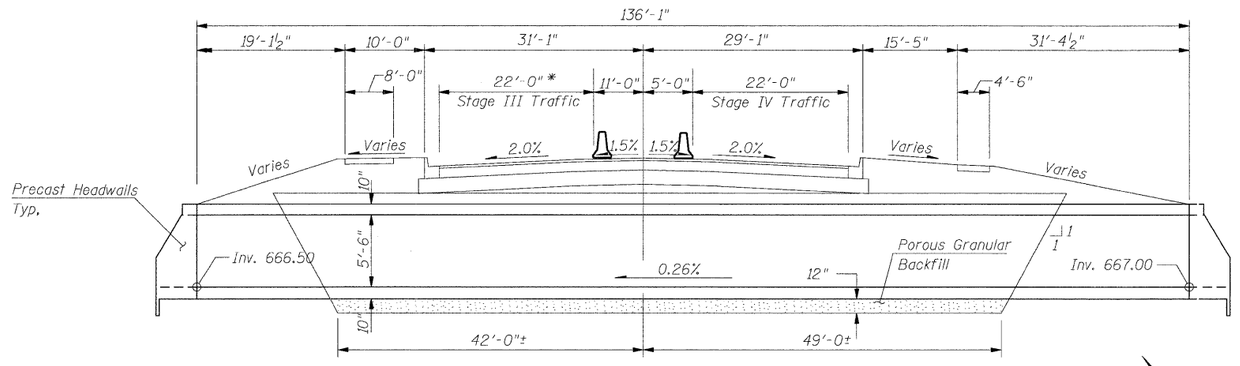
Existing Structure: Triple 7'W x 5'H CMP Elliptical Pipe Culverts

STATE OF IL_INOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1578	*	WILL	155	129
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 1
2 SHEETS

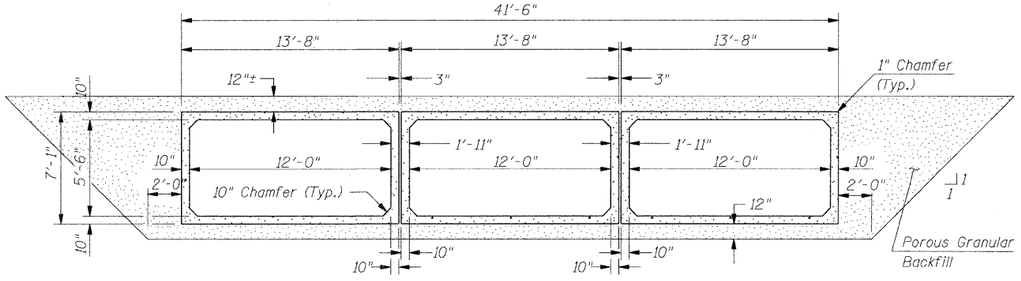
* 06-00046-00-PV



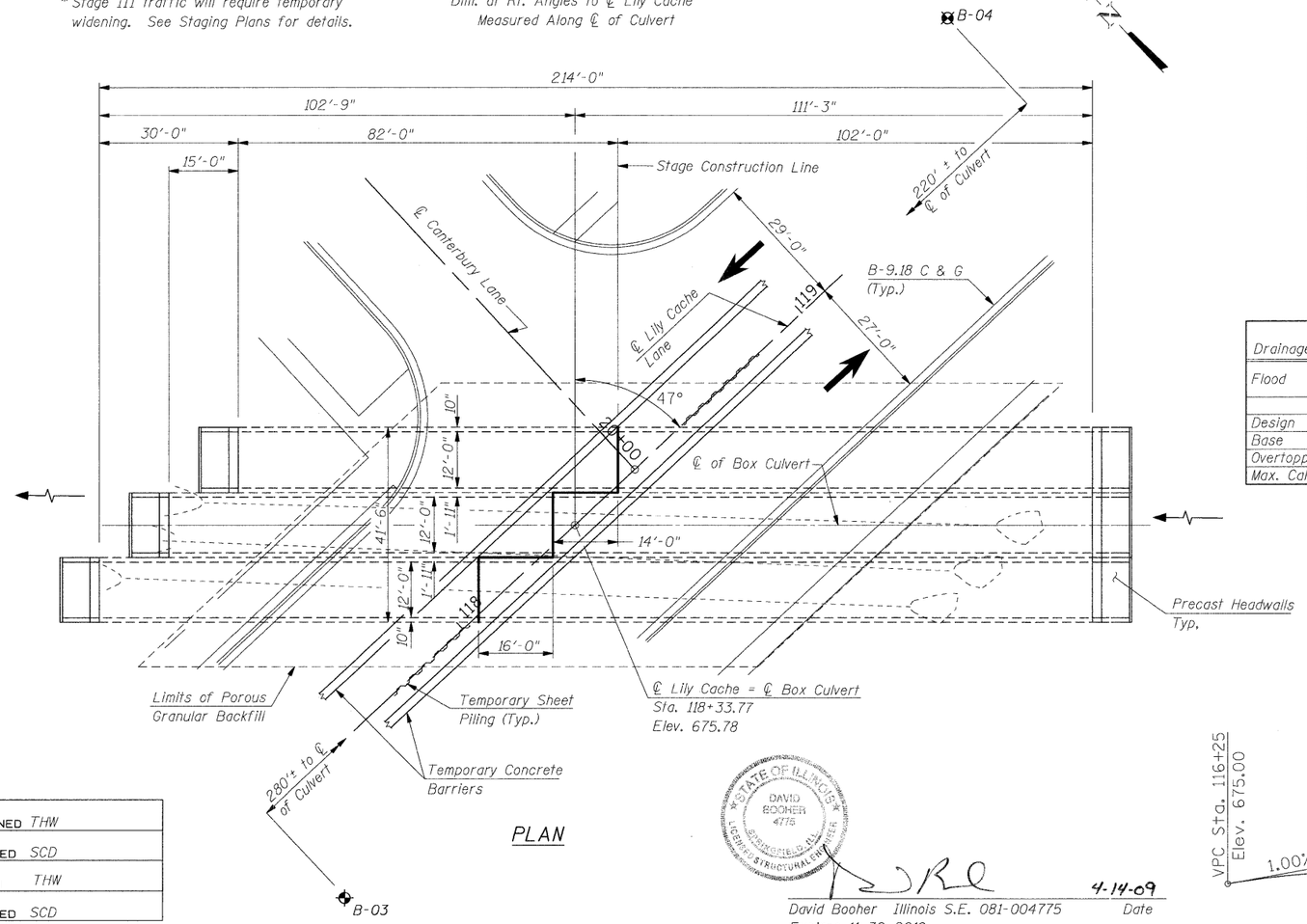
ELEVATION

* Stage III traffic will require temporary widening. See Staging Plans for details.

Dim. at Rt. Angles to ℄ Lily Cache Measured Along ℄ of Culvert



SECTION THRU PRECAST BARREL



PLAN

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	Cu. Yd.	2683
Porous Granular Backfill	Cu. Yd.	1113
Temporary Sheet Piling	Sq. Ft.	663
Precast Conc. Box Culverts, 12' x 5.5'	Foot	597
Box Culvert End Sections, Special	Each	6
Name Plates	Each	1

WATERWAY INFORMATION

Drainage Area = 2.1 Sq. Mi.

Ex. Low Grade Elev. 671.23 @ Sta. 111+50
Pr. Low Grade Elev. 671.00 @ Sta. 111+75

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	314	69.0	188.3	672.23	0.00	0.00	671.12	671.32
Design	50	726	71.0	196.9	672.47	0.67	0.44	673.14	672.91
Base	100	902	71.0	198.0	673.23	0.61	0.38	673.84	673.61
Overtopping									
Max. Calc.	500	1523	71.0	198.0	675.02	0.00	0.83	674.61	675.85

HIGHWAY CLASSIFICATION

F.A.U. Rte. 1578 - Lily Cache Lane
Functional Class: Urban Collector
ADT: 14,678 (2008); 20,366 (2030)
ADTT: (20); (20)
DHV: 1450
Design Speed: 40 m.p.h.
Posted Speed: 40 m.p.h.

LOADING HS20-44

Allow 50#/sq. ft. for future wearing surface.

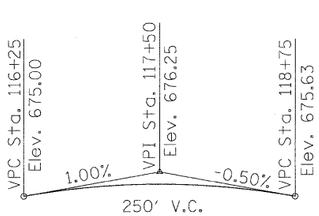
DESIGN SPECIFICATIONS

2002 AASHTO

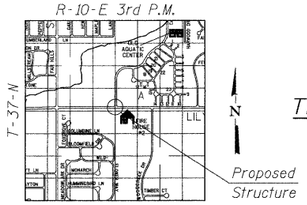
DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (reinforcement)



PROFILE



LOCATION SKETCH

GENERAL PLAN & ELEVATION
LILY CACHE LANE OVER
TRIBUTARY TO LILY CACHE CREEK
SEC. 06-00046-00-PV
WILL COUNTY
STA. 118+33.77
STRUCTURE NO. 099-6065

DESIGNED	THW
CHECKED	SCD
DRAWN	THW
CHECKED	SCD

STATE OF ILLINOIS
DAVID BOOHER
4775
LICENSED STRUCTURAL ENGINEER

David Booher Illinois S.E. 081-004775 — 4-14-09
Expires 11-30-2010 — Date

$FILE$

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1578	*	WILL	155	130
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 2
2 SHEETS

* 06-00046-00-PV

SOIL BORING LOG

Page 1 of 1

Date 8/22/06

ROUTE Lily Cache Lane DESCRIPTION PSI Project No. 042-65043 LOGGED BY TD

SECTION LOCATION SEC., TWP., RNG.

COUNTY DuPage DRILLING METHOD 3.25" Hollow Stem Augers HAMMER TYPE Automatic Hammer

STRUCT. NO.
Station

BORING NO. B-04
Station 97+00
Offset 25.00ft LOC
Ground Surface Elev. ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
	20		
	30		8.0
Dark brown silty CLAY, trace fine to coarse sand, trace organic (TOPSOIL)	25		
Mottled brown orange silty CLAY, trace fine to medium sand, very stiff, moist, LL=48, PI=22	27		
	9		
	11	>4.5	22.0
	12	P	
	13		
	6		
-5	6		18.0
	6		
	10		
Brown silty CLAY, trace fine sand, very stiff, moist	4		
	5	2.5	19.0
	7	P	
	7		
	4		
	5	3.3	20.0
	6	P	
-10	9		
END OF BORING AT 10 FEET End of Boring			
-15			
-20			

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

SOIL BORING LOG

Page 1 of 1

Date 8/22/06

ROUTE Lily Cache Lane DESCRIPTION PSI Project No. 042-65043 LOGGED BY TD

SECTION LOCATION SEC., TWP., RNG.

COUNTY DuPage DRILLING METHOD 3.25" Hollow Stem Augers HAMMER TYPE Automatic Hammer

STRUCT. NO.
Station

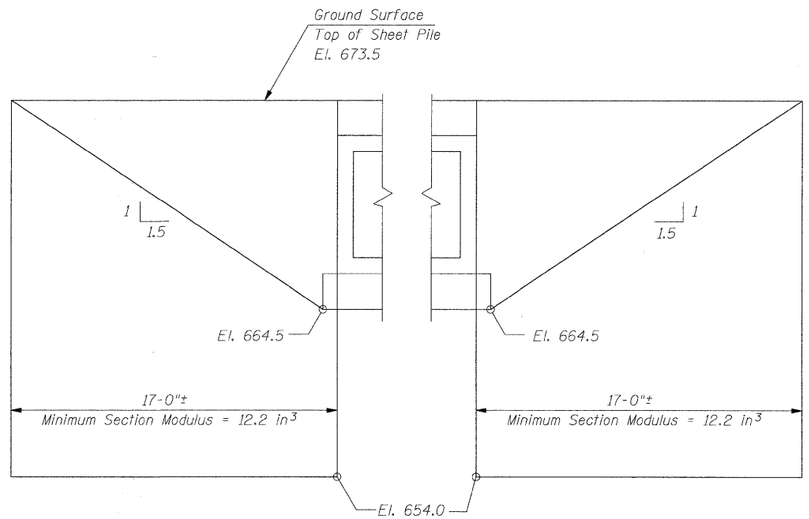
BORING NO. B-03
Station 92+00
Offset 25.00ft ROC
Ground Surface Elev. ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
	9		
	10		14.0
Dark brown silty CLAY, trace fine to coarse sand, trace organic (TOPSOIL)	11		
FILL: Black silty CLAY, trace fine sand, trace organic, medium stiff, moist, 1.2% organic content	14		
	7		
	9	2.5	17.0
	5	P	
	5		
	2		
FILL: Black silty CLAY, trace organics, fine to medium sand, and gravel, medium stiff, very moist, 1.3% organic content	2	1.0	27.0
-5	2	P	
	3		
	2		
Black decomposed organic CLAY, medium stiff, very moist	5	1.5	26.0
	4	P	
	2		
Gray silty CLAY, with fine to coarse sand, hard, moist	4		
	7	4.0	16.0
	13	P	
-10	9		
END OF BORING AT 10 FEET End of Boring			
-15			
-20			

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



TEMPORARY SHEET PILING
(663 S.F.)

DESIGNED	THW
CHECKED	SCD
DRAWN	THW
CHECKED	SCD

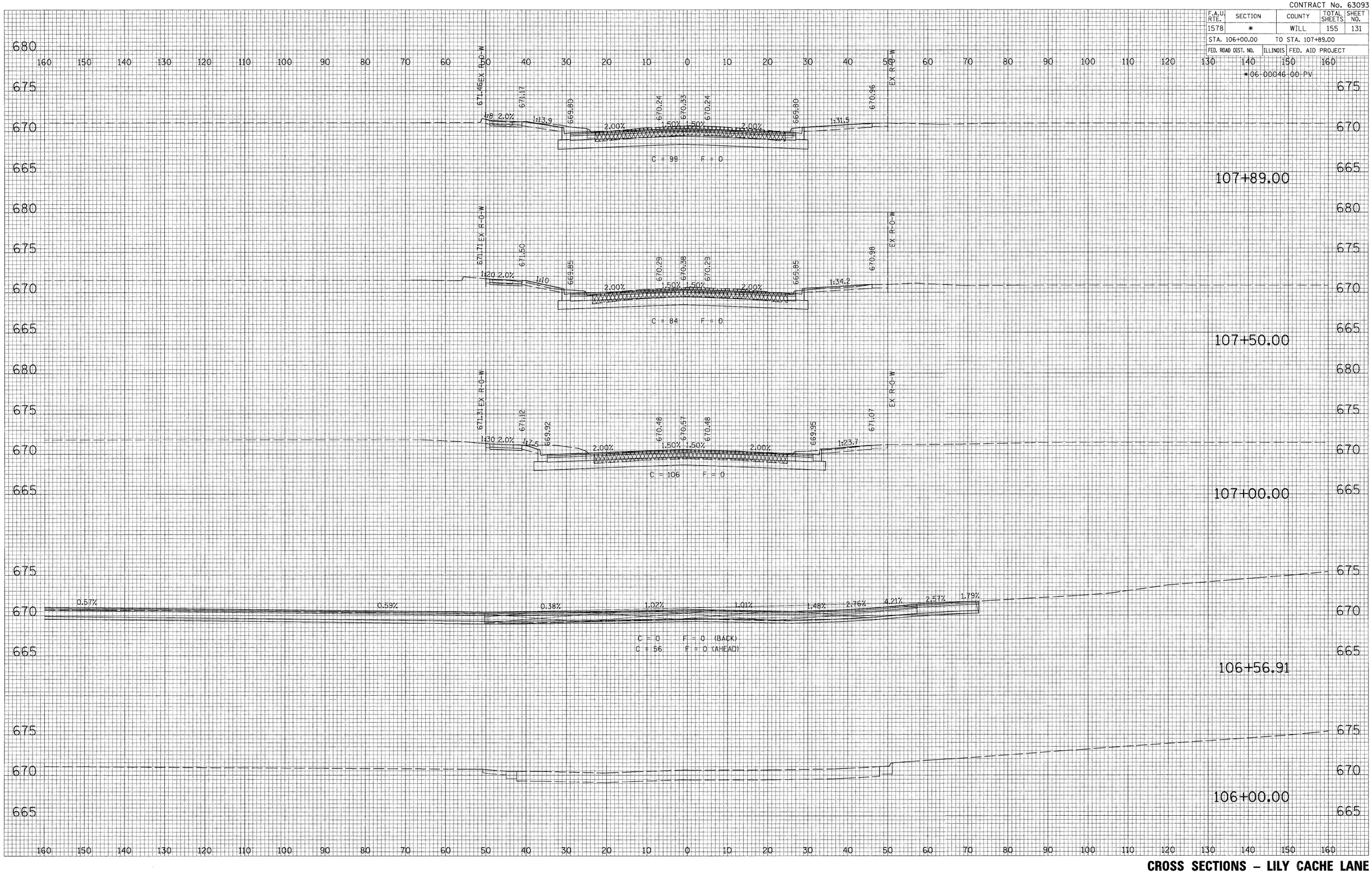
SOIL BORINGS &
TEMPORARY SHEET PILING DETAIL
LILY CACHE LANE OVER
TRIBUTARY TO LILY CACHE CREEK
SEC. 06-00046-00-PV
WILL COUNTY
STA. 118+33.77
STRUCTURE NO. 099-6065

$$FILE$$

CONTRACT No. 63093

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1578	*	WILL	155	131
STA. 106+00.00		TO STA. 107+89.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

*06 00046 00 PV



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

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

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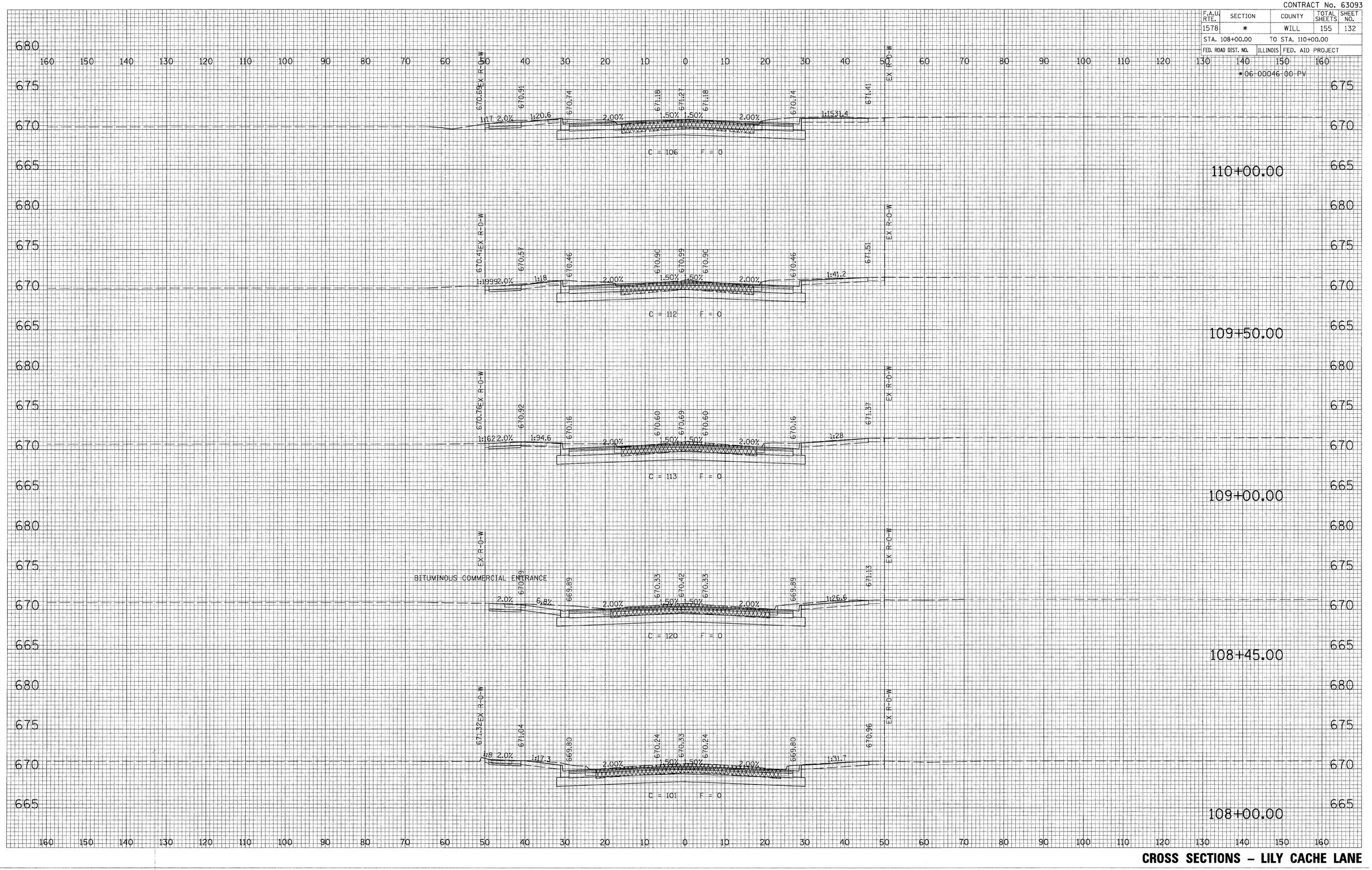
CROSS SECTIONS – LILY CACHE LANE

CONTRACT No. 63093

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1578	*	WILL	155	132
STA. 108+00.00		TO STA. 110+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

*06-00046-00-PV



CROSS SECTIONS – LILY CACHE LANE

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

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

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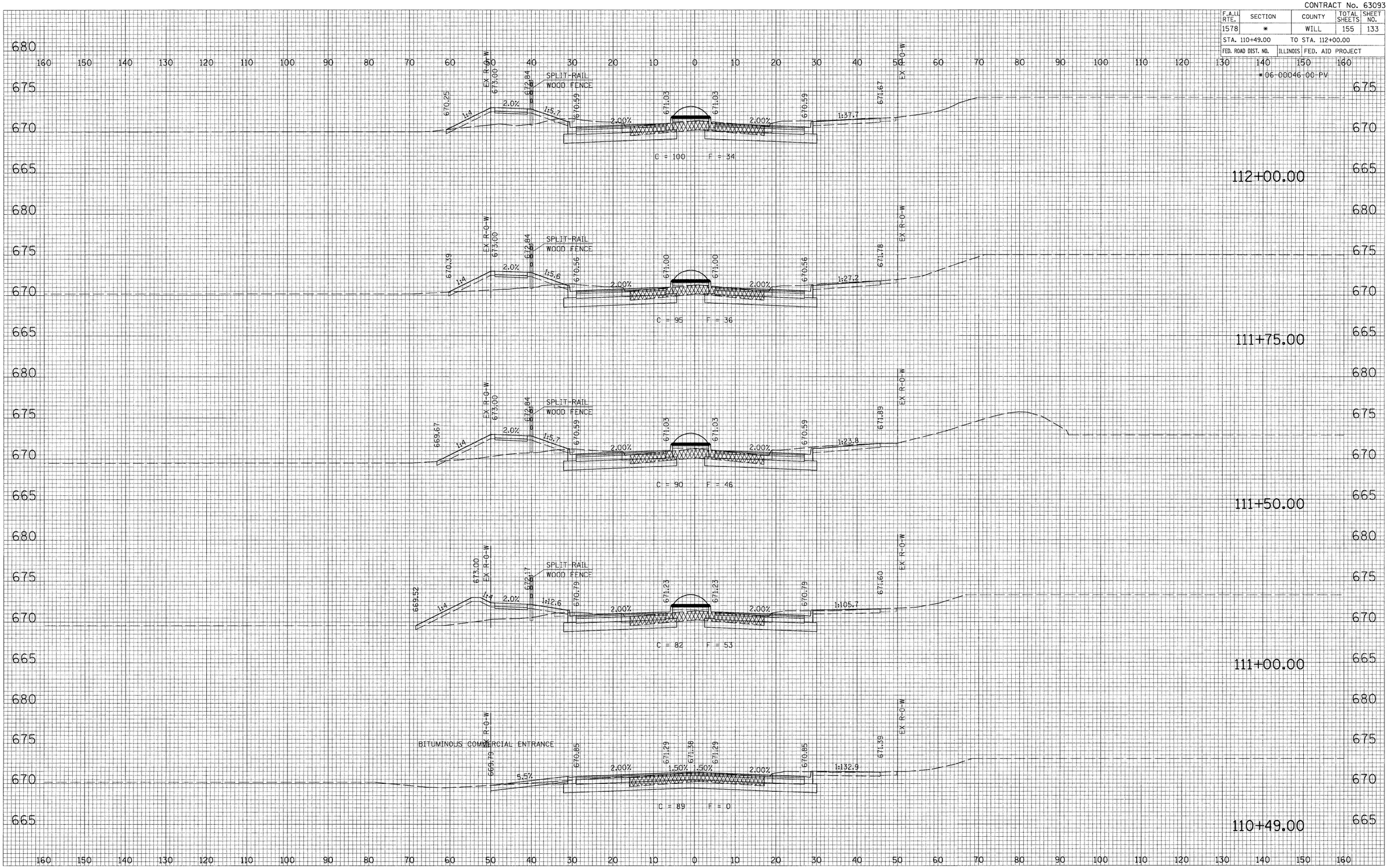
CONTRACT No. 63093

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1578	*	WILL	155	133
STA. 110+49.00		TO STA. 112+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

*06-00046-00-PV



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SURVEYED PLOTTED TEMPLATE AREAS AREAS CHECKED BY DATE

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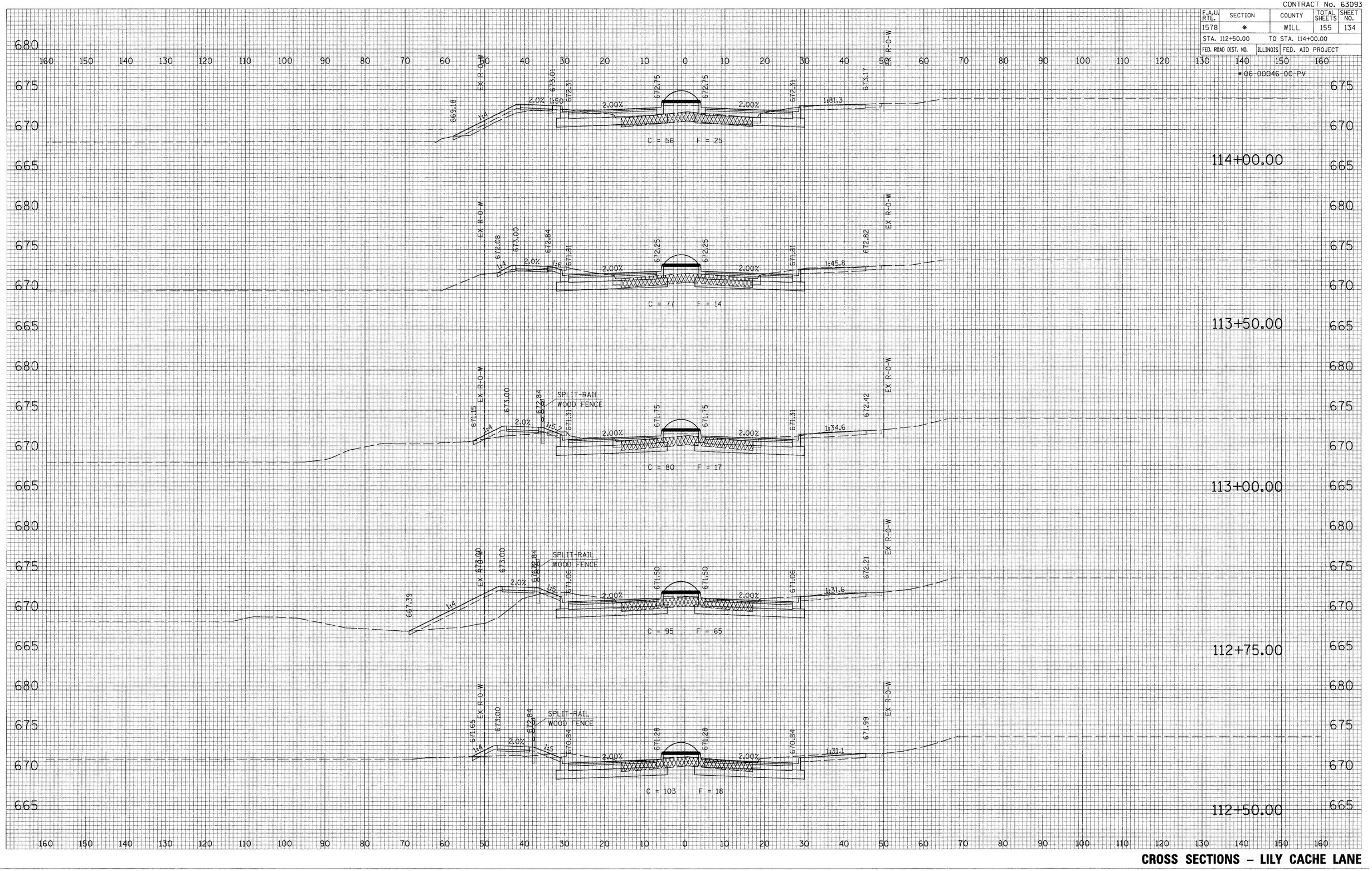
CROSS SECTIONS – LILY CACHE LANE

CONTRACT No. 63093

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1578	*	WILL	155	134
STA. 112+50.00		TO STA. 114+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* 06-00046-00-PV



CROSS SECTIONS – LILY CACHE LANE

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SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED

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

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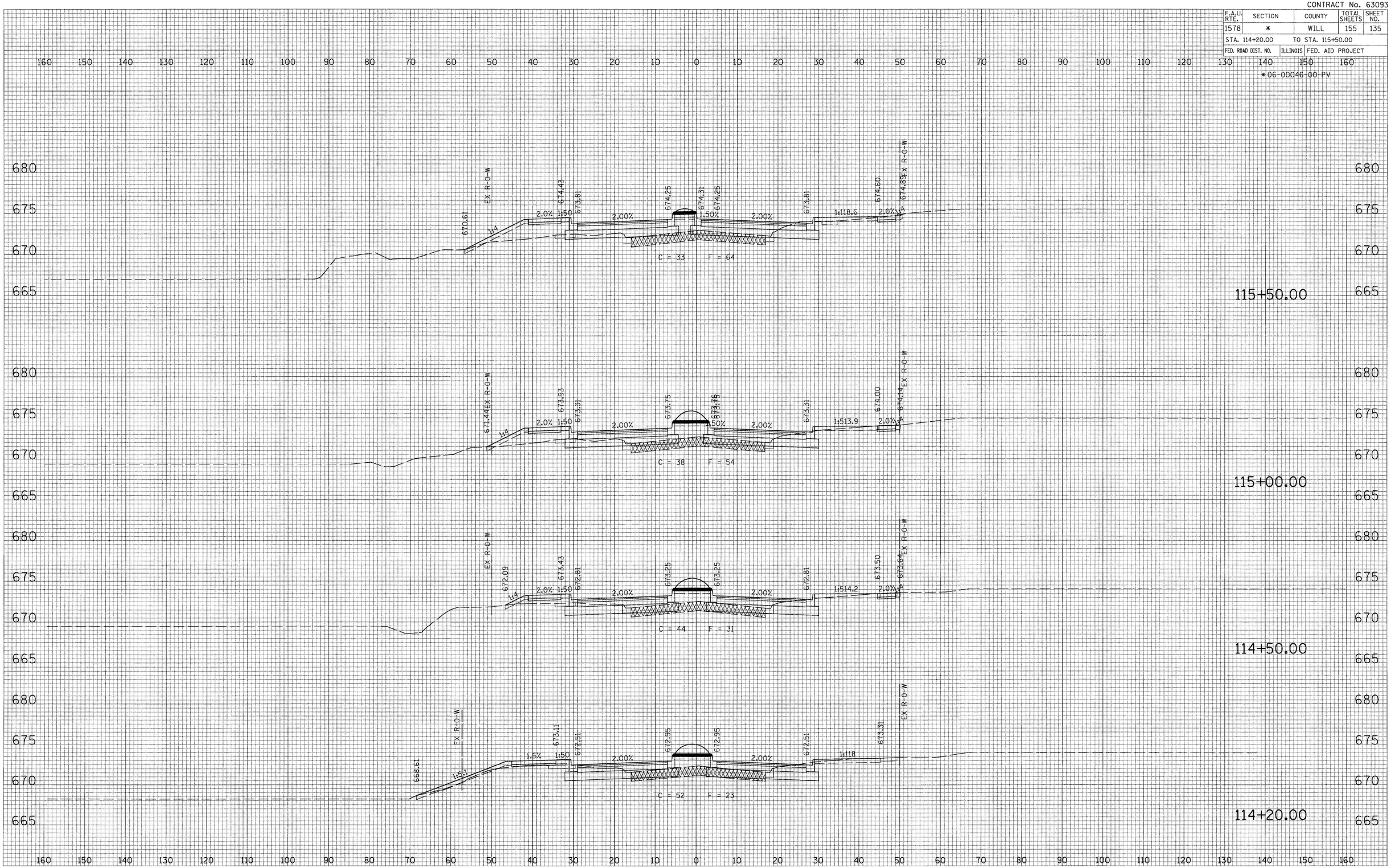
USER NAME = $USER$

CONTRACT No. 63093

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1578	*	WILL	155	135
STA. 114+20.00		TO STA. 115+50.00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

*06-00046-00-PV



CROSS SECTIONS – LILY CACHE LANE

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

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

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CONTRACT No. 63093

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1578	*	WILL	155	136
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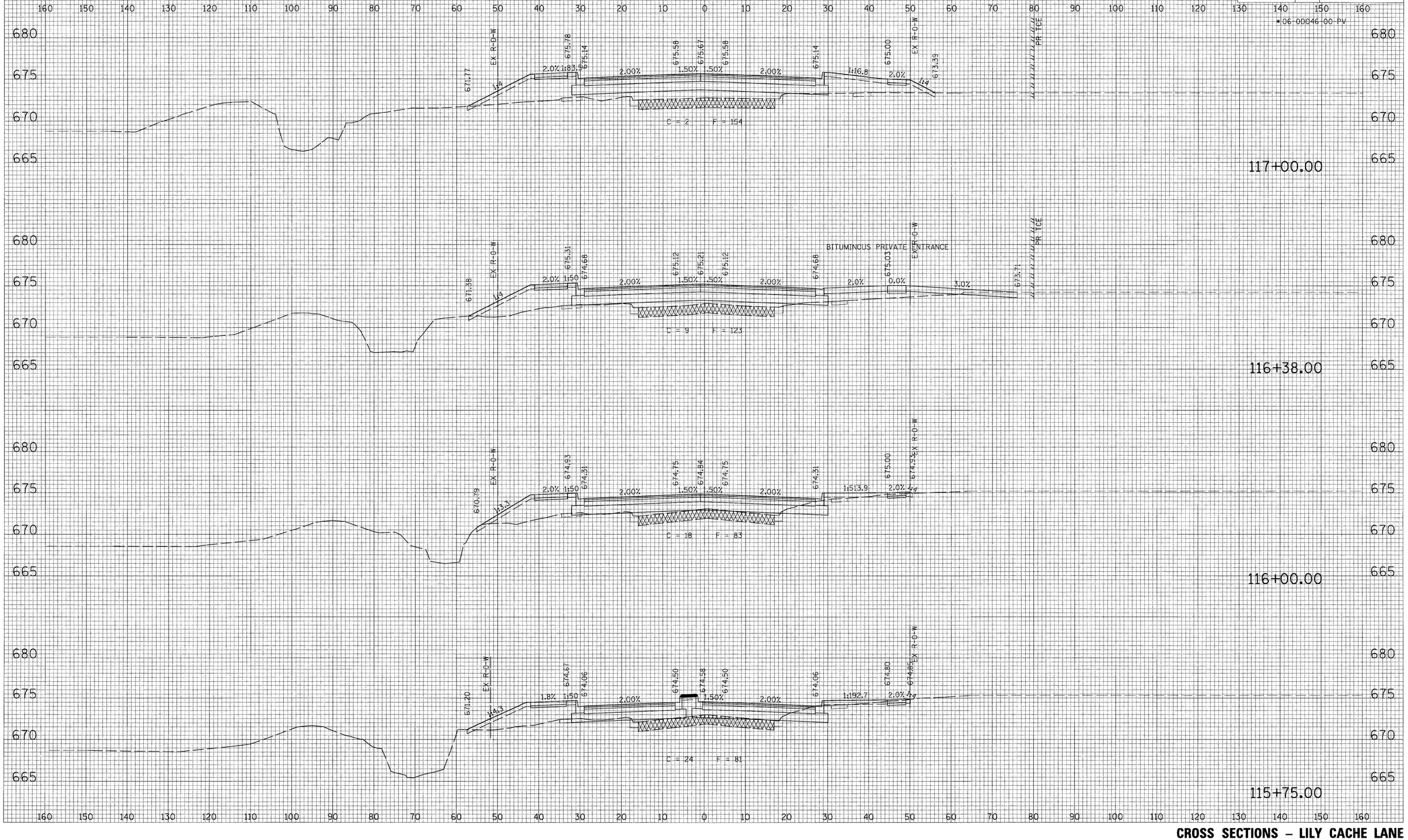
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

*06-00046-00-PV



CROSS SECTIONS – LILY CACHE LANE

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

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

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CONTRACT No. 63093

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1578	*	WILL	155	137
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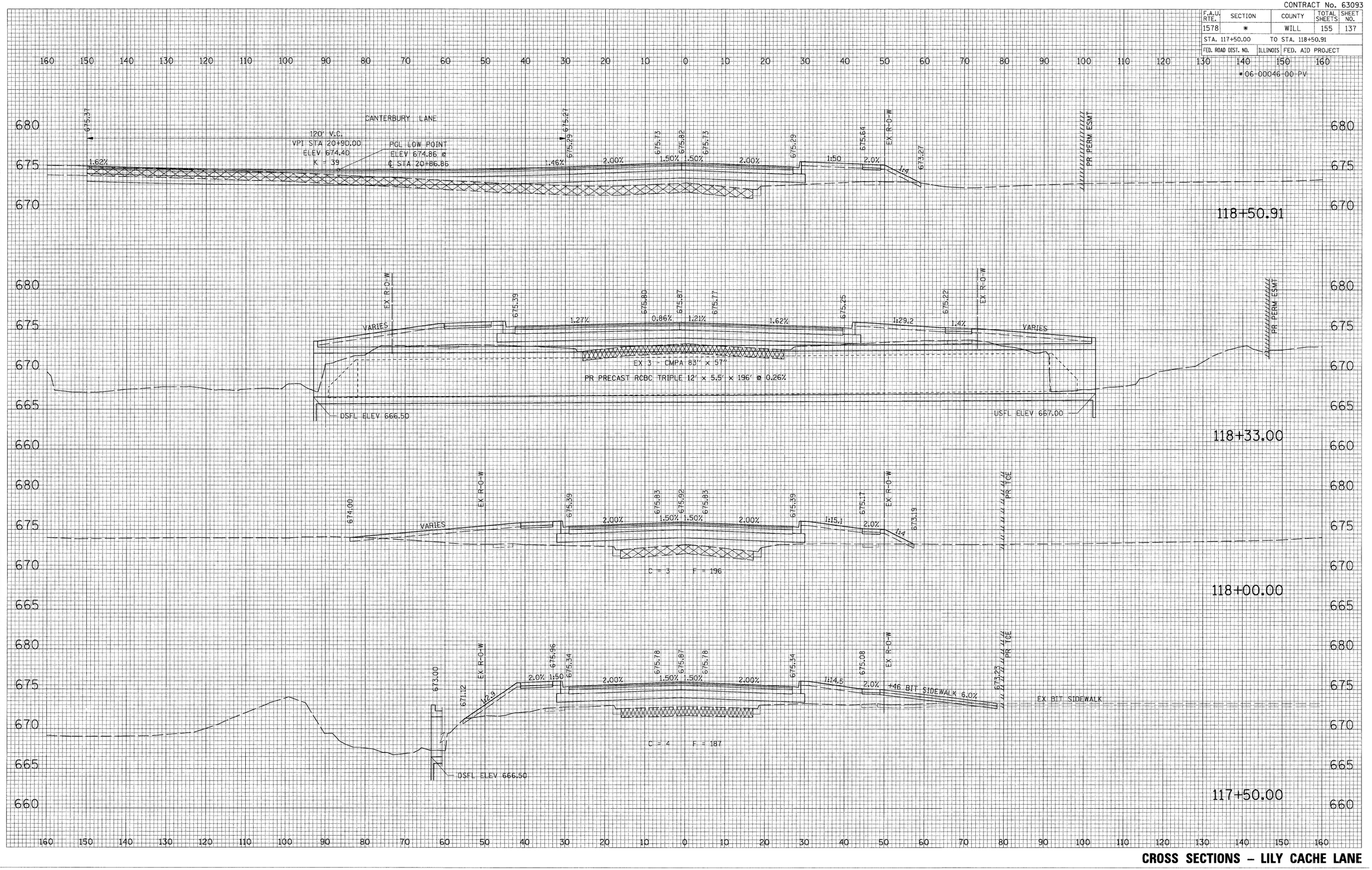
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

*06-00046-00-PV



CROSS SECTIONS – LILY CACHE LANE

ORIGINAL SURVEY	BY	DATE
NOTE BOOK		
NO.		

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
HEETS		
AREAS CHECKED		

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CONTRACT No. 63093

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1578	*	WILL	155	138
STA. 119+00.00		TO STA. 119+97.00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

*06-00046-00-PV

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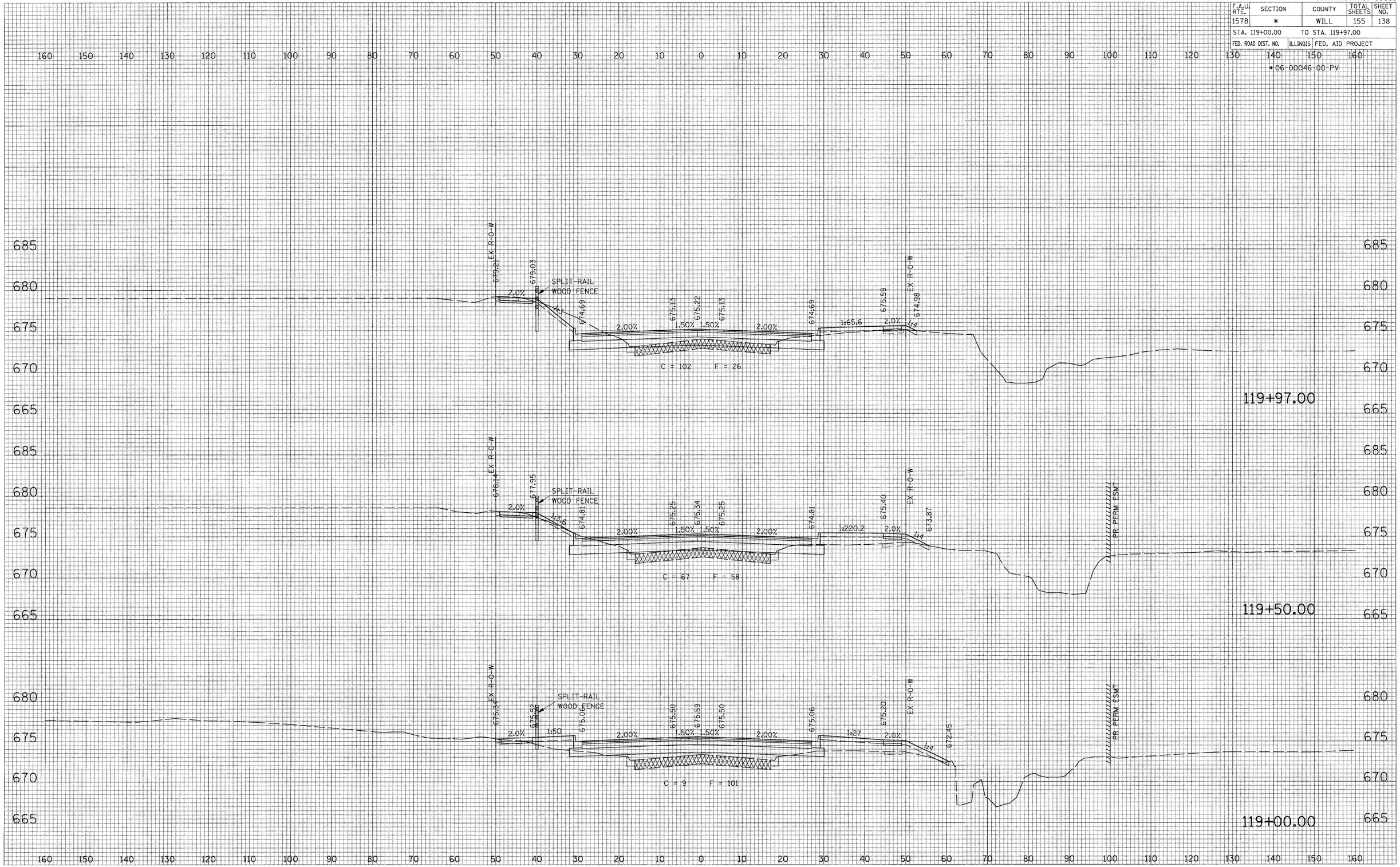

CROSS SECTIONS – LILY CACHE LANE

CONTRACT No. 63093

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1578	*	WILL	155	139
STA. 120+50.00		TO STA. 121+23.00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

*06-00046-00-PV

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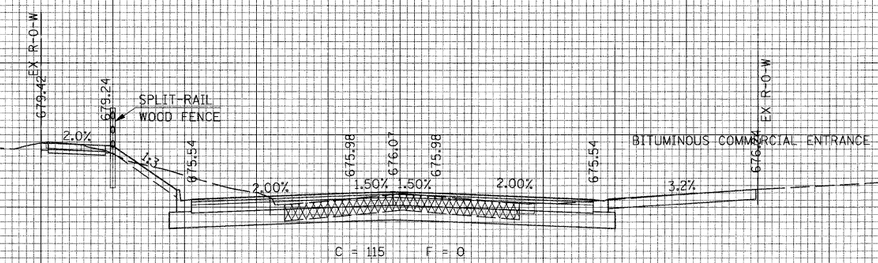
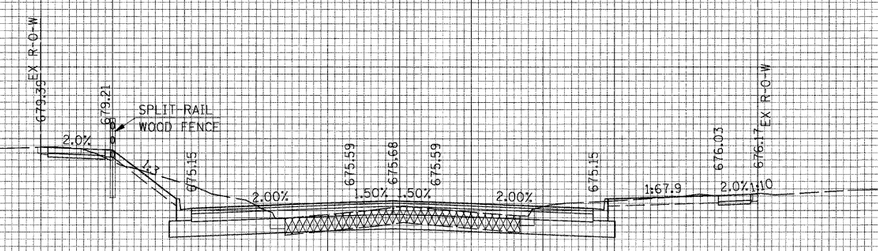
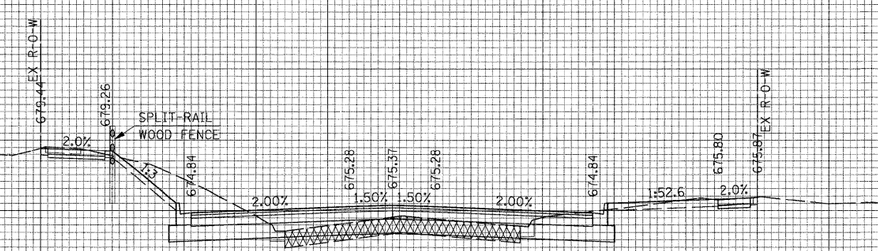


121+23.00



120+89.00



120+50.00

CROSS SECTIONS – LILY CACHE LANE

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

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

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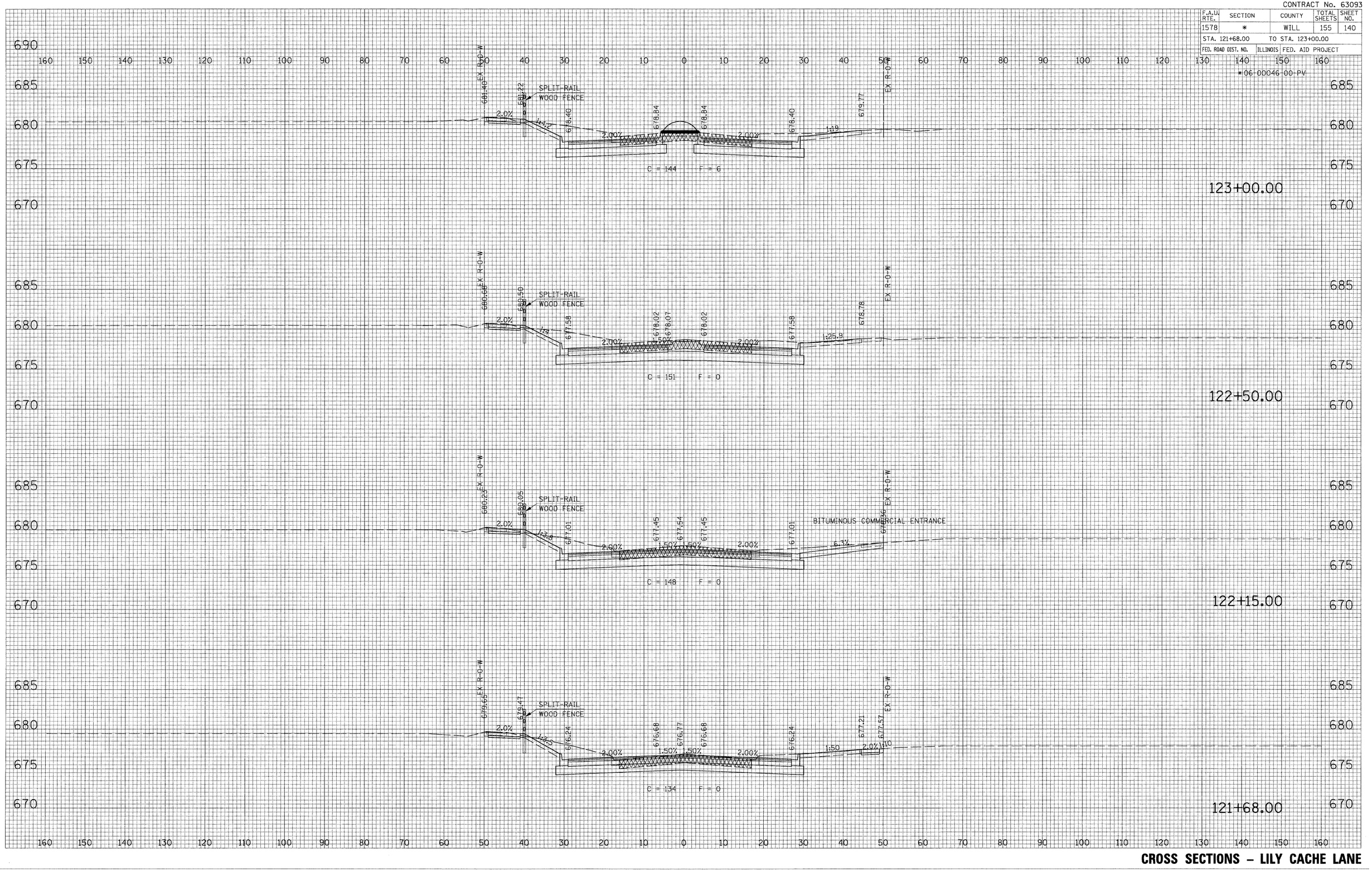
CONTRACT No. 63093

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1578	*	WILL	155	140
STA. 121+68.00		TO STA. 123+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

*06-00046-00-PV



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

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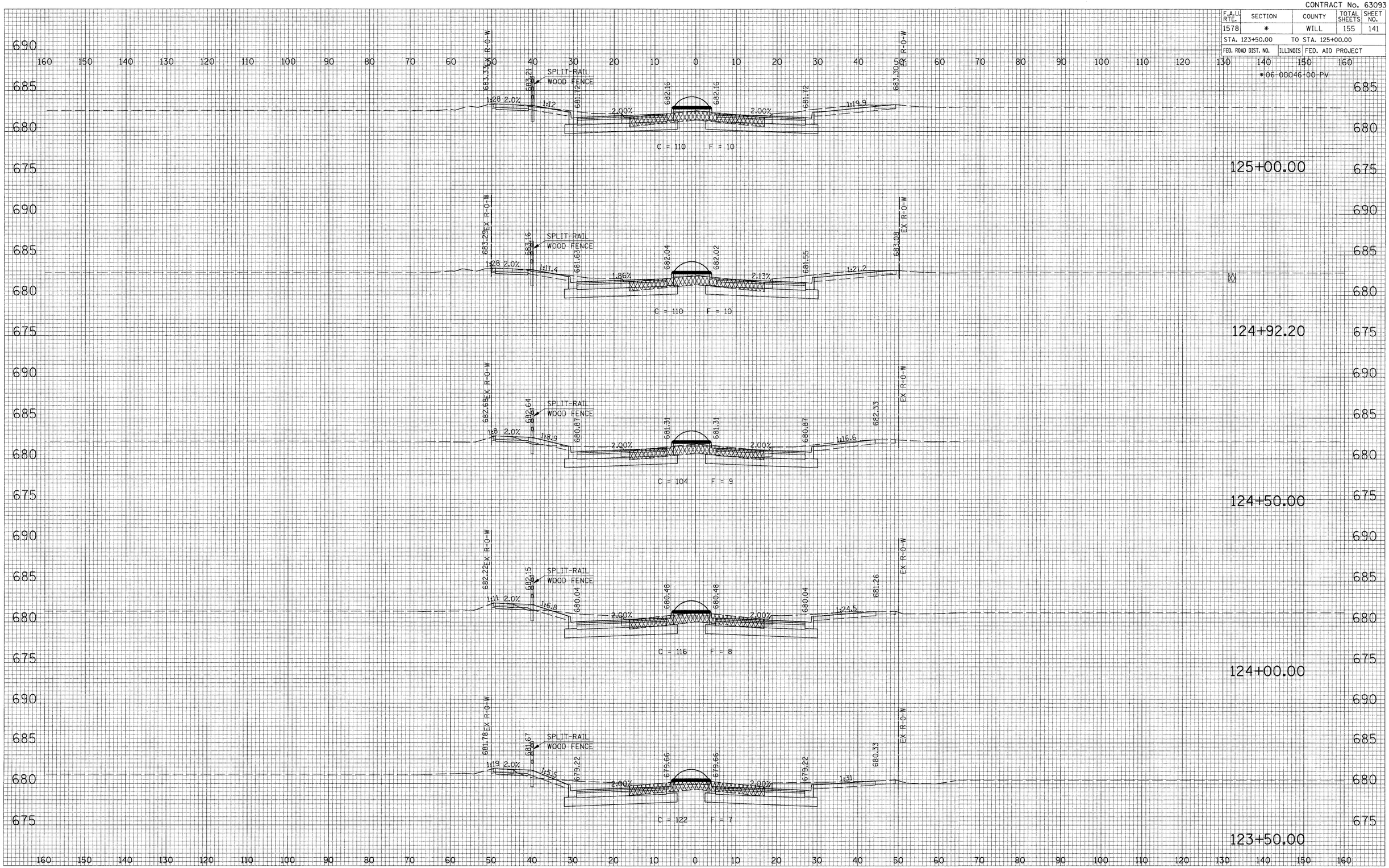
CROSS SECTIONS – LILY CACHE LANE

CONTRACT No. 63093

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1578	*	WILL	155	141
STA. 123+50.00		TO STA. 125+00.00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

*06-00046-00-PV



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

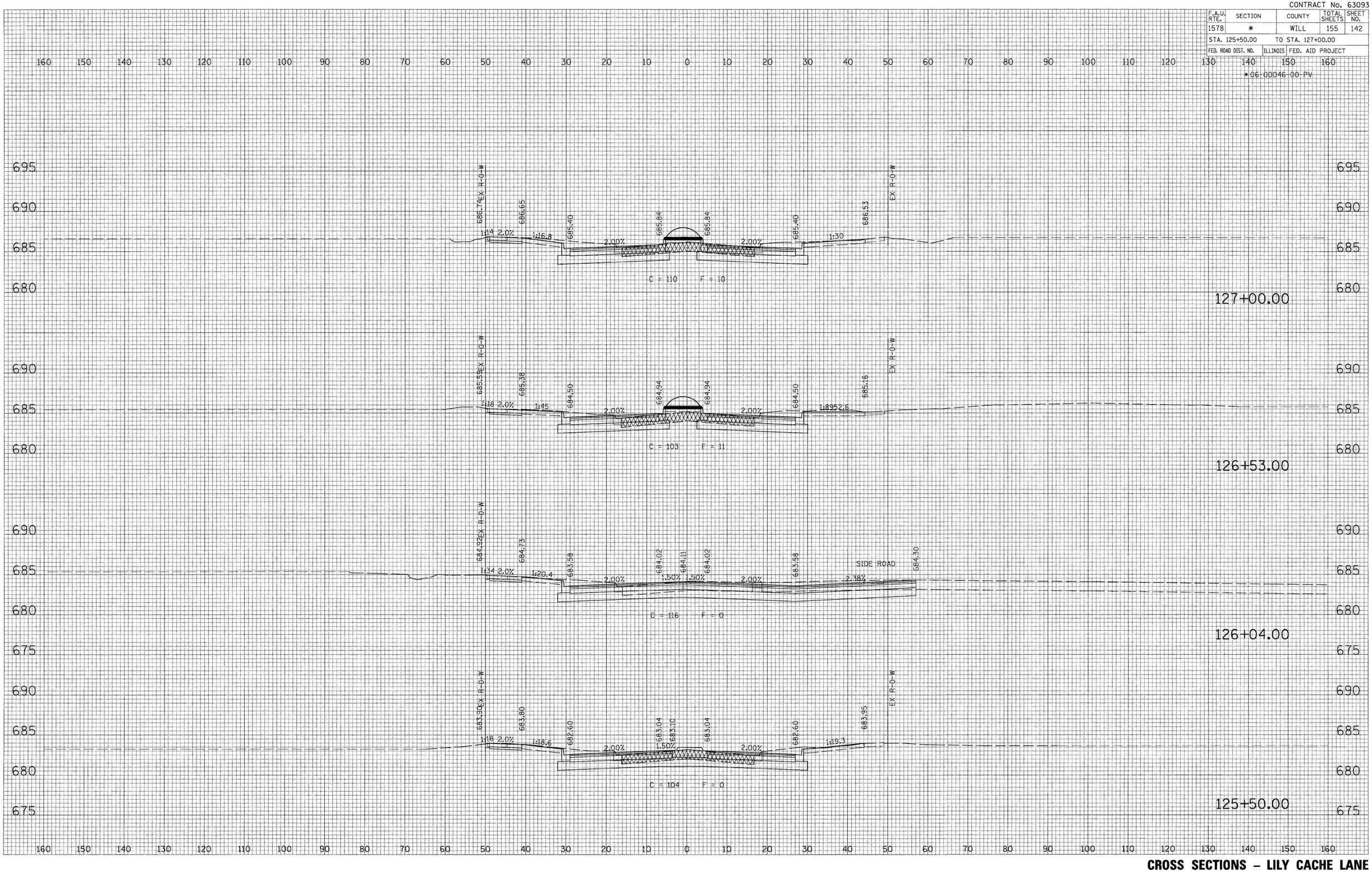
PLOT DATE = $DATE$
FILE NAME = $FILE$
PLOT SCALE = $SCALE$
USER NAME = $USER$

CROSS SECTIONS – LILY CACHE LANE

CONTRACT No. 63093

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1578	*	WILL	155	142
STA. 125+50.00		TO STA. 127+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* 06-00046-00-PV



CROSS SECTIONS – LILY CACHE LANE

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

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

PLOT DATE = #DATE#
FILE NAME = #FILE#
PLOT SCALE = #SCALE#
USER NAME = #USER#

CONTRACT No. 63093

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1578	*	WILL	155	143
STA. 127+50.00		TO STA. 128+50.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

*06-00046-00-PV

160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160

695 690 685 680

690.11 EX. R-O-W 690.00 688.41 688.95 688.95 688.41 690.03 EX R-O-W

1:21 2.0% 1:10.7 2.00% 2.00% 1:13.6

C = 128 n = 8

128+50.00

689.18 EX. R-O-W 689.01 687.39 687.83 687.83 687.39 688.91 EX R-O-W

1:80 2.0% 1:10.4 2.00% 2.00% 1:15.3

C = 130 n = 7

128+00.00

688.60 EX. R-O-W 688.44 686.88 687.32 687.32 686.88 688.36 EX R-O-W

1:746 2.0% 1:11 2.00% 2.00% 1:16.2

C = 126 n = 8

127+75.00

688.04 EX. R-O-W 687.88 686.38 686.82 686.82 686.38 687.81 EX R-O-W

1:1492 2.0% 1:11.9 2.00% 2.00% 1:17.2

C = 122 n = 9

127+50.00

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
TEMPLATE		
NOS.		
AREAS CHECKED		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
TEMPLATE		
NOS.		
AREAS CHECKED		

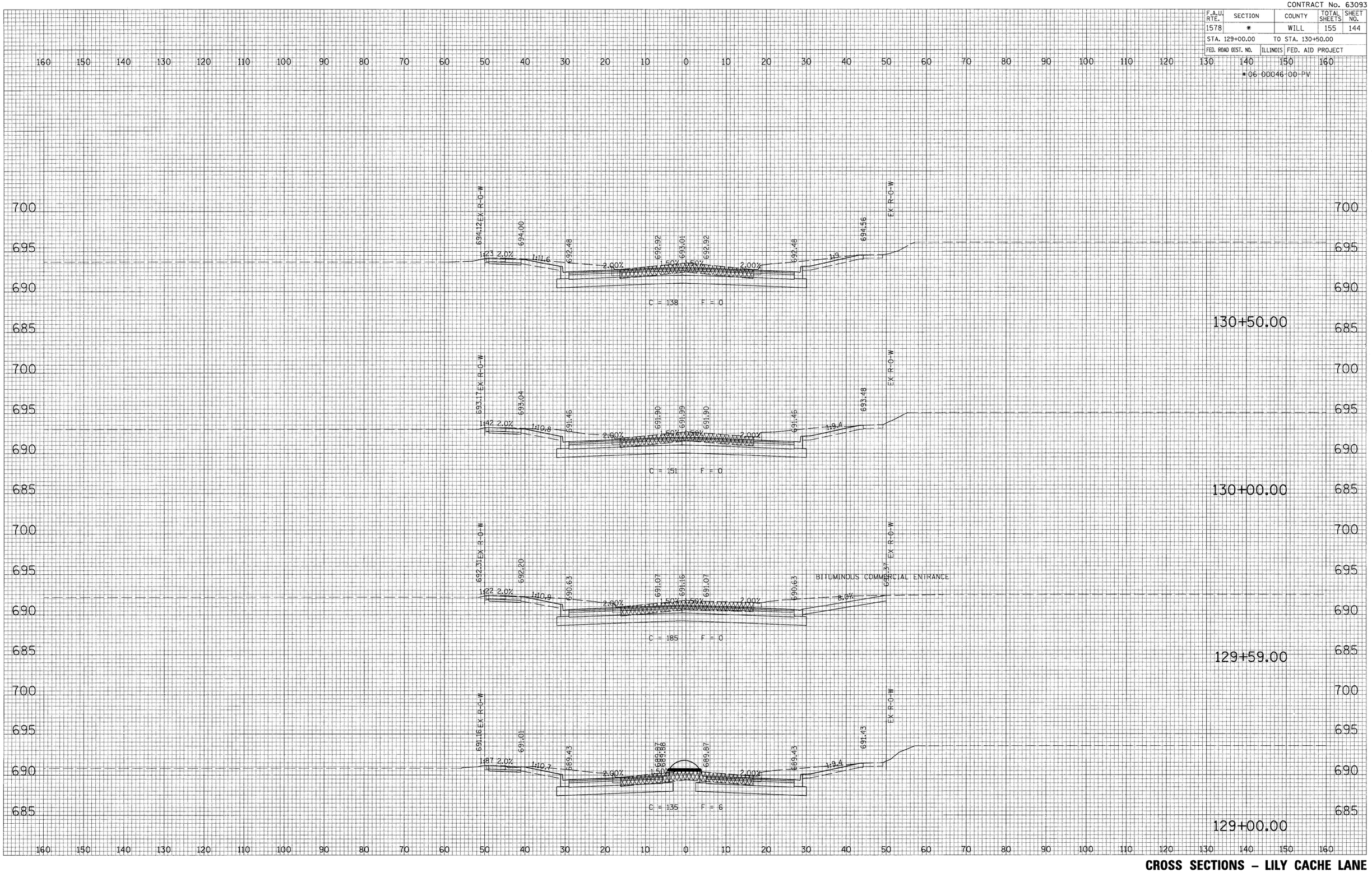
PLOT DATE = #DATE#
FILE NAME = #FILE#
PLOT SCALE = #SCALE#
USER NAME = #USER#

CROSS SECTIONS – LILY CACHE LANE

CONTRACT No. 63093

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1578	*	WILL	155	144
STA. 129+00.00		TO STA. 130+50.00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

*06-00046-00-PV



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

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

PLOT DATE = #DATE#
FILE NAME = #FILE#
PLOT SCALE = #SCALE#
USER NAME = #USER#

CROSS SECTIONS – LILY CACHE LANE

CONTRACT No. 63093

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1578	*	WILL	155	145
STA. 131+00.00		TO STA. 132+09.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

*06-00046-00-PV

160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160

705 700 695 690

132+09.00

EX R-O-W 696.58 | 1:6 2.0% | 696.59 | 1:33.4 | 695.63 | 2.00% | 696.07 | 1.50% | 696.16 | 1.50% | 696.07 | 2.00% | 695.63 | 4.9% | 696.56 | EX R-O-W

BITUMINOUS COMMERCIAL ENTRANCE

C = 90 F = 0

705 700 695 690

EX R-O-W 696.38 | 1:10 2.0% | 696.2 | 1:22.1 | 695.01 | 2.00% | 695.45 | 1.50% | 695.54 | 1.50% | 695.45 | 2.00% | 695.01 | 1:16.4 | 696.47 | EX R-O-W

C = 103 F = 0

705 700 695 690

131+75.00

EX R-O-W 695.91 | 1:31 2.0% | 695.78 | 1:16.6 | 694.52 | 2.00% | 694.96 | 1.50% | 695.05 | 1.50% | 694.96 | 2.00% | 694.52 | 1:16.6 | 696.01 | EX R-O-W

C = 113 F = 0

705 700 695 690

131+50.00

EX R-O-W 695.08 | 1:34 2.0% | 694.95 | 1:12.6 | 693.50 | 2.00% | 693.94 | 1.50% | 694.03 | 1.50% | 693.94 | 2.00% | 693.50 | 1:11.5 | 695.27 | EX R-O-W

C = 127 F = 0

705 700 695 690 685

131+00.00

160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160

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

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

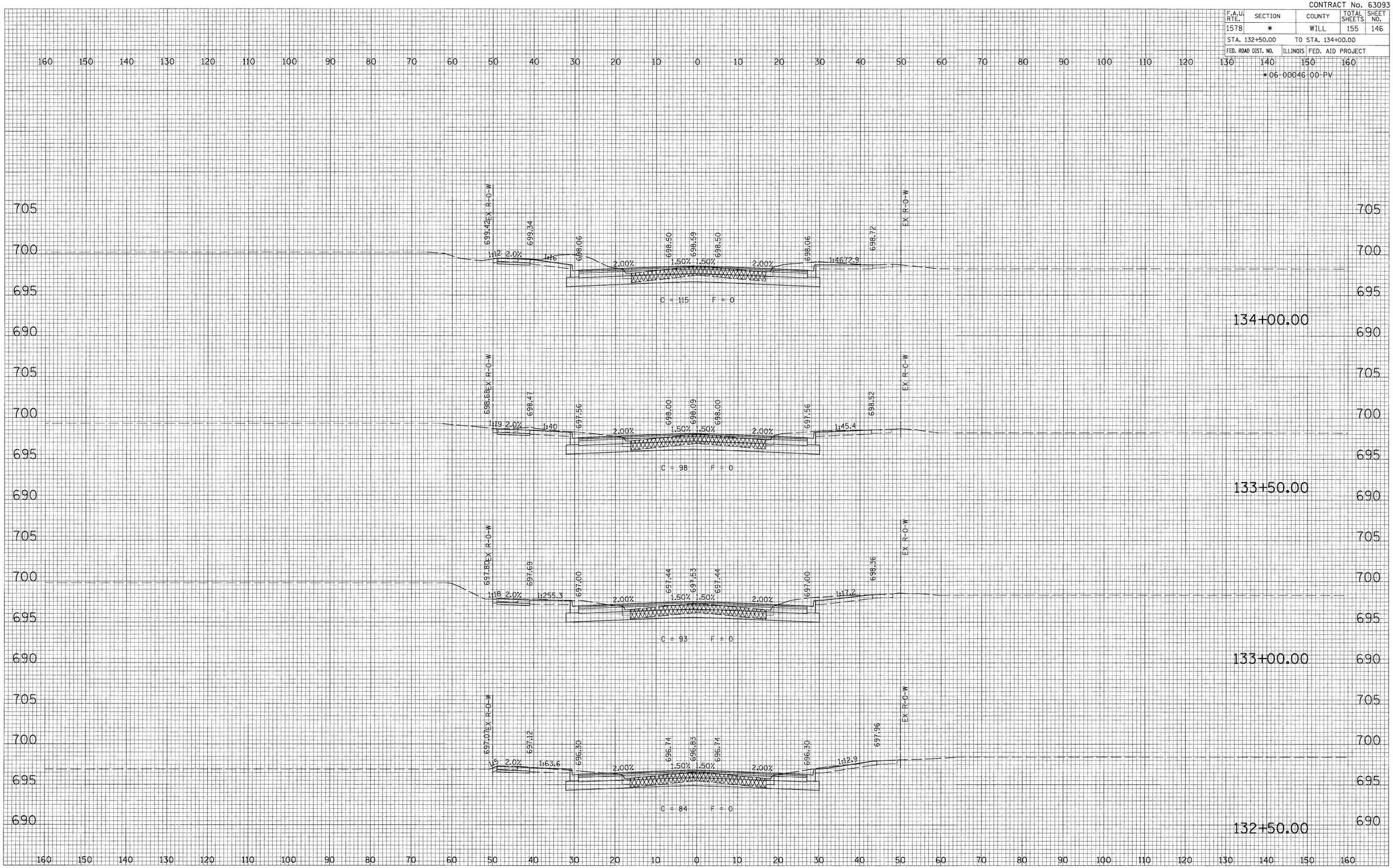
PLOT DATE = #DATE#
FILE NAME = #FILE#
PLOT SCALE = #SCALE#
USER NAME = #USER#

CROSS SECTIONS – LILY CACHE LANE

CONTRACT No. 63093

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1578	*	WILL	155	146
STA. 132+50.00		TO STA. 134+00.00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

*06-00046-00-PV



CROSS SECTIONS – LILY CACHE LANE

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

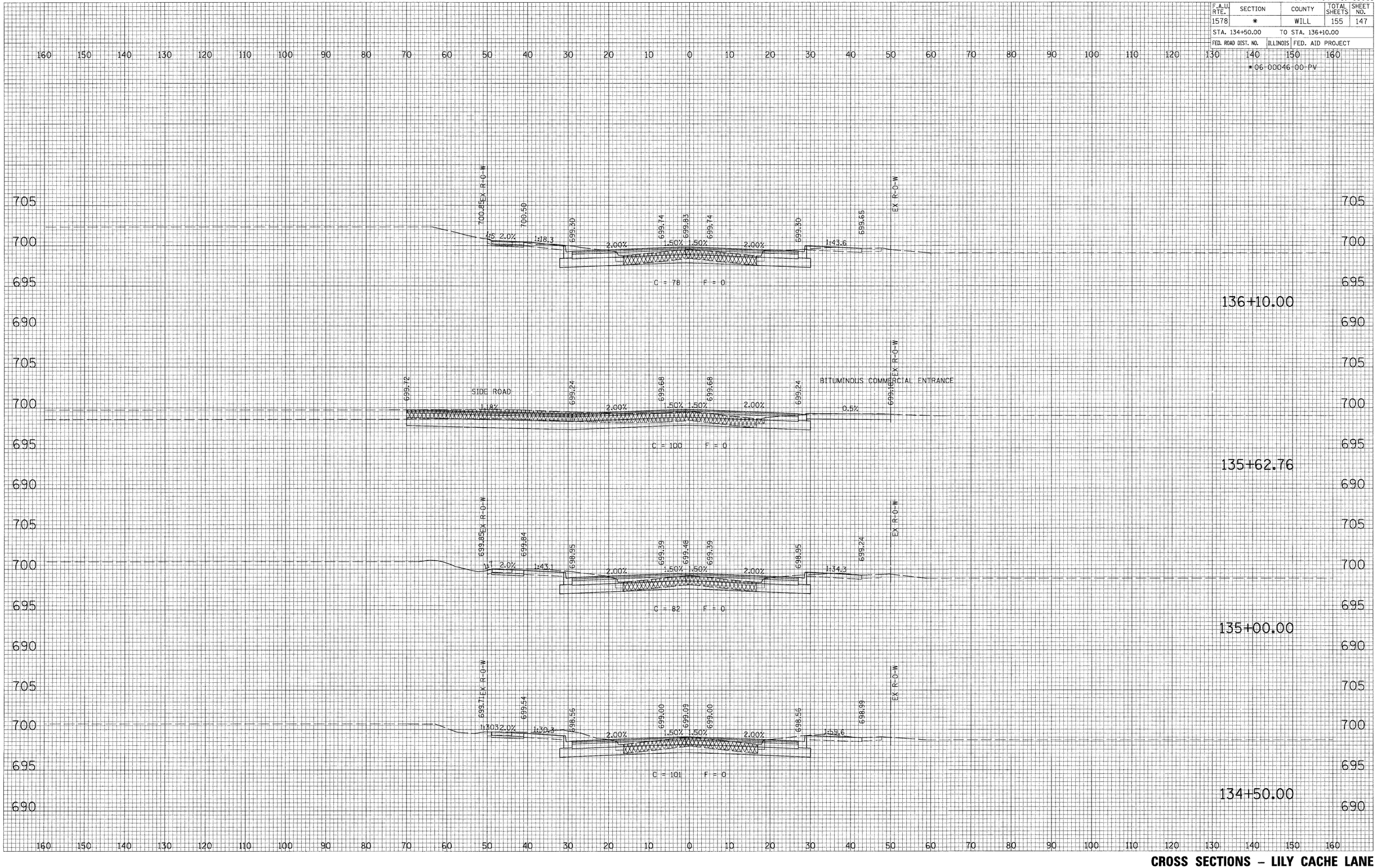
ORIGINAL SURVEY NOTE BOOK NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE

PLOT DATE = $DATE$
FILE NAME = $FILEL$
PLOT SCALE = $SCALE$
USER NAME = $USER$

CONTRACT No. 63093

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1578	*	WILL	155	147
STA. 134+50.00		TO STA. 136+10.00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

*06-00046-00-PV



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

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

PLOT DATE = $DATE$
FILE NAME = $FILE$
PLOT SCALE = $SCALE$
USER NAME = $USER$

CROSS SECTIONS – LILY CACHE LANE

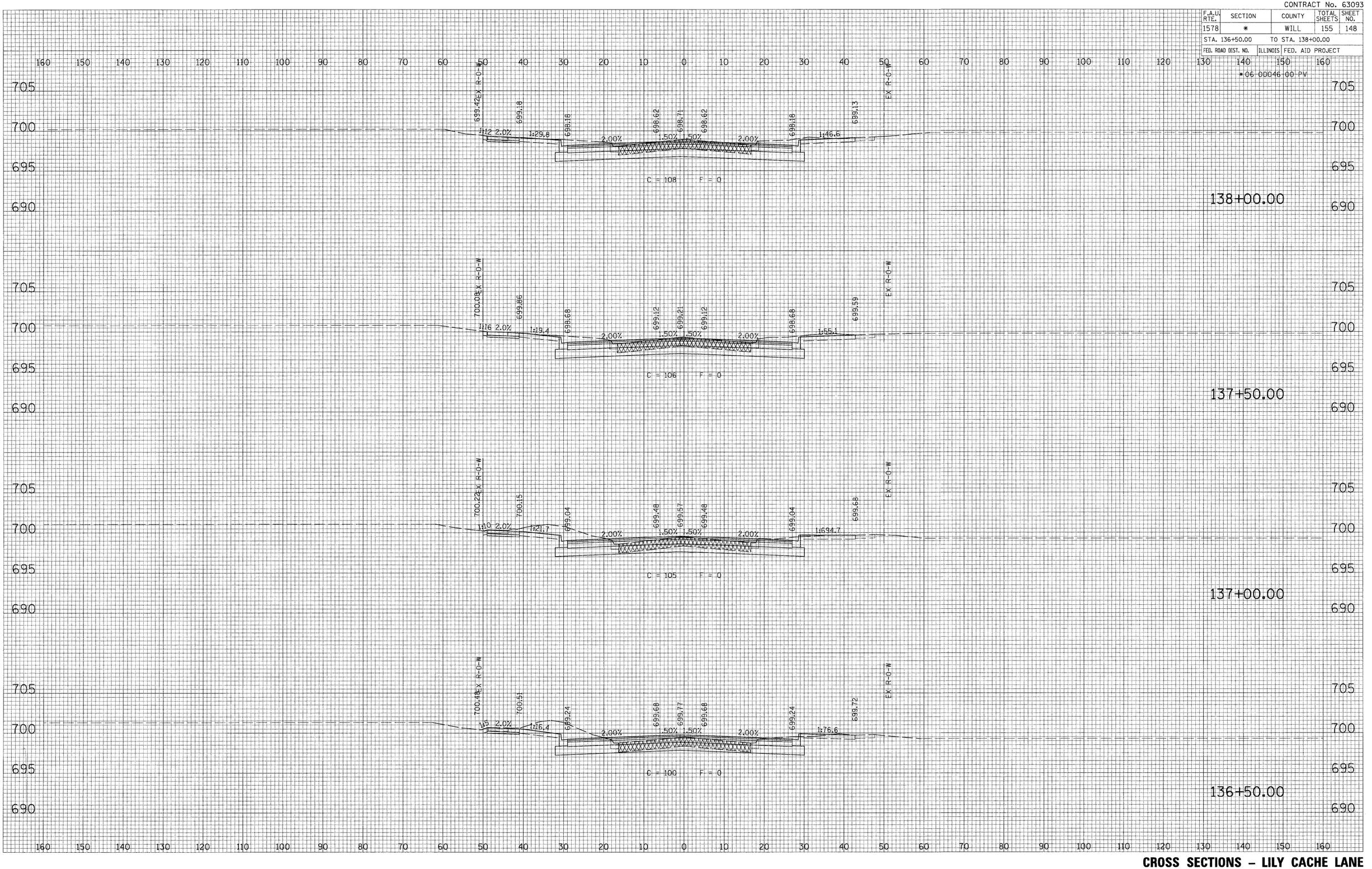
CONTRACT No. 63093

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1578	*	WILL	155	148

STA. 136+50.00 TO STA. 138+00.00

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

* 06-00046-00-PV



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

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

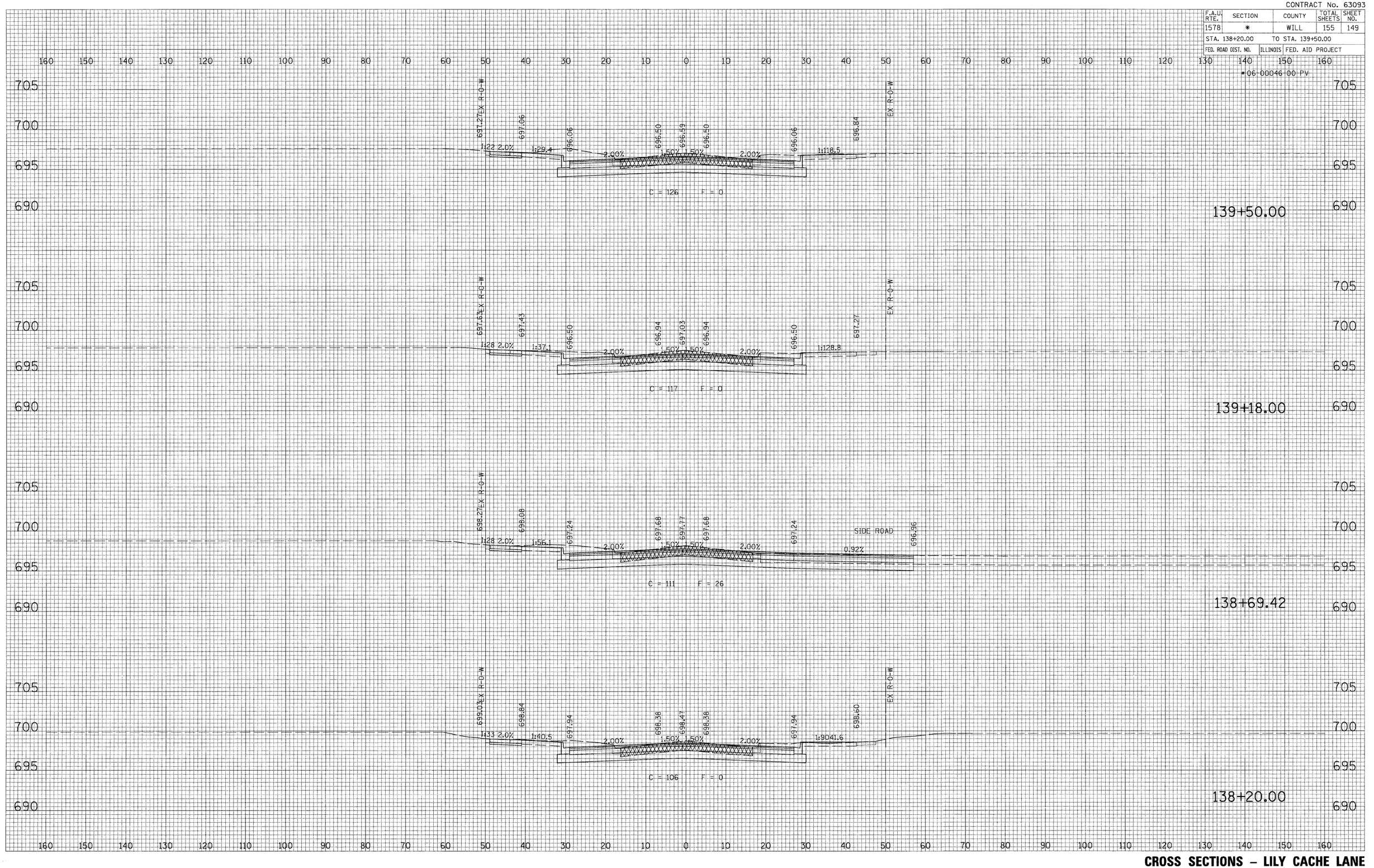
PLOT DATE = $DATE$
FILE NAME = $FILE$
PLOT SCALE = $SCALE$
USER NAME = $USER$

CROSS SECTIONS – LILY CACHE LANE

CONTRACT No. 63093

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1578	*	WILL	155	149
STA. 138+20.00		TO STA. 139+50.00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

*06-00046-00-PV



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

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

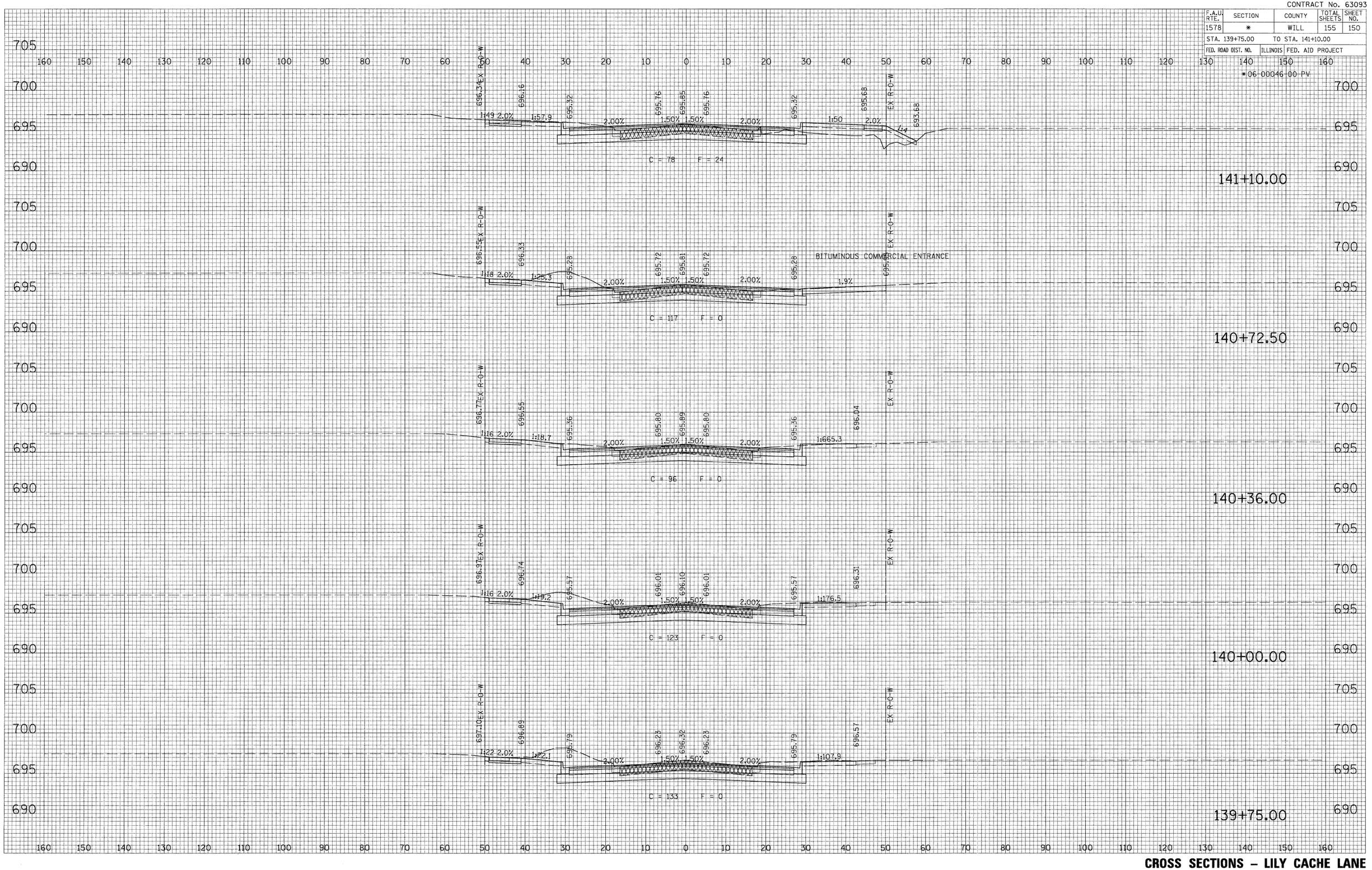
PLOT DATE = $DATE$
FILE NAME = $FILE$
PLOT SCALE = $SCALE$
USER NAME = $USER$

CROSS SECTIONS – LILY CACHE LANE

CONTRACT No. 63093

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1578	*	WILL	155	150
STA. 139+75.00		TO STA. 141+10.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

*06-00046-00-PV



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

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

PLOT DATE = #DATE#
FILE NAME = #FILE#
PLOT SCALE = #SCALE#
USER NAME = #USER#

CROSS SECTIONS – LILY CACHE LANE

CONTRACT No. 63093

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1578	*	WILL	155	151
STA. 141+30.00		TO STA. 142+00.00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

*06-00046-00-PV

160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160

705 700 695 690

EX R-O-W

1:20 695.28 2.00% 695.37

695.35 2.00% 695.27 1:26

EX R-O-W

C = 35 F = 1 (BACK)
C = 0 F = 0 (AHEAD)

142+00.00

EX R-O-W

1:5.6 694.91 2.00% 695.11

695.13 2.00% 694.96 1:24.2

EX R-O-W

C = 70 F = 0

141+50.00

EX R-O-W

696.31 696.19 1:49 2.0% 1:77.4 695.40 2.00% 695.84 1.50% 695.93 1.50% 695.84 2.00% 695.40 1:50 695.75 2.0% EX R-O-W 1:4 692.88

C = 76 F = 20

141+30.00

160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160

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

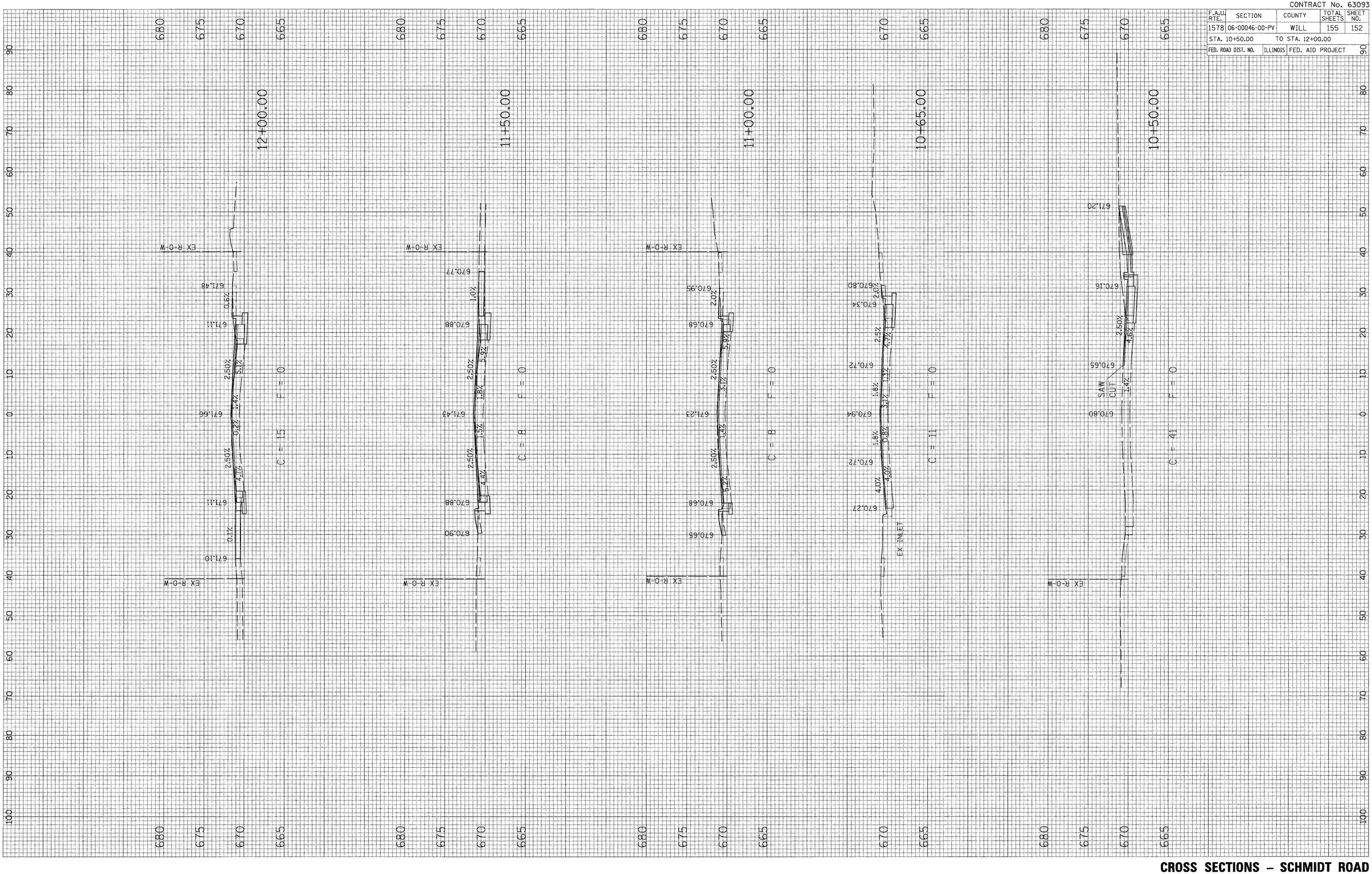
ORIGINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — CHECKED — BY — DATE

PLOT DATE = $DATE$
FILE NAME = $FILEL$
PLOT SCALE = $SCALE$
USER NAME = $USER$

CROSS SECTIONS – LILY CACHE LANE

CONTRACT No. 63093

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1578	06-00046-00-PV	WILL	155	152
STA. 10+50.00		TO STA. 12+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



CROSS SECTIONS – SCHMIDT ROAD

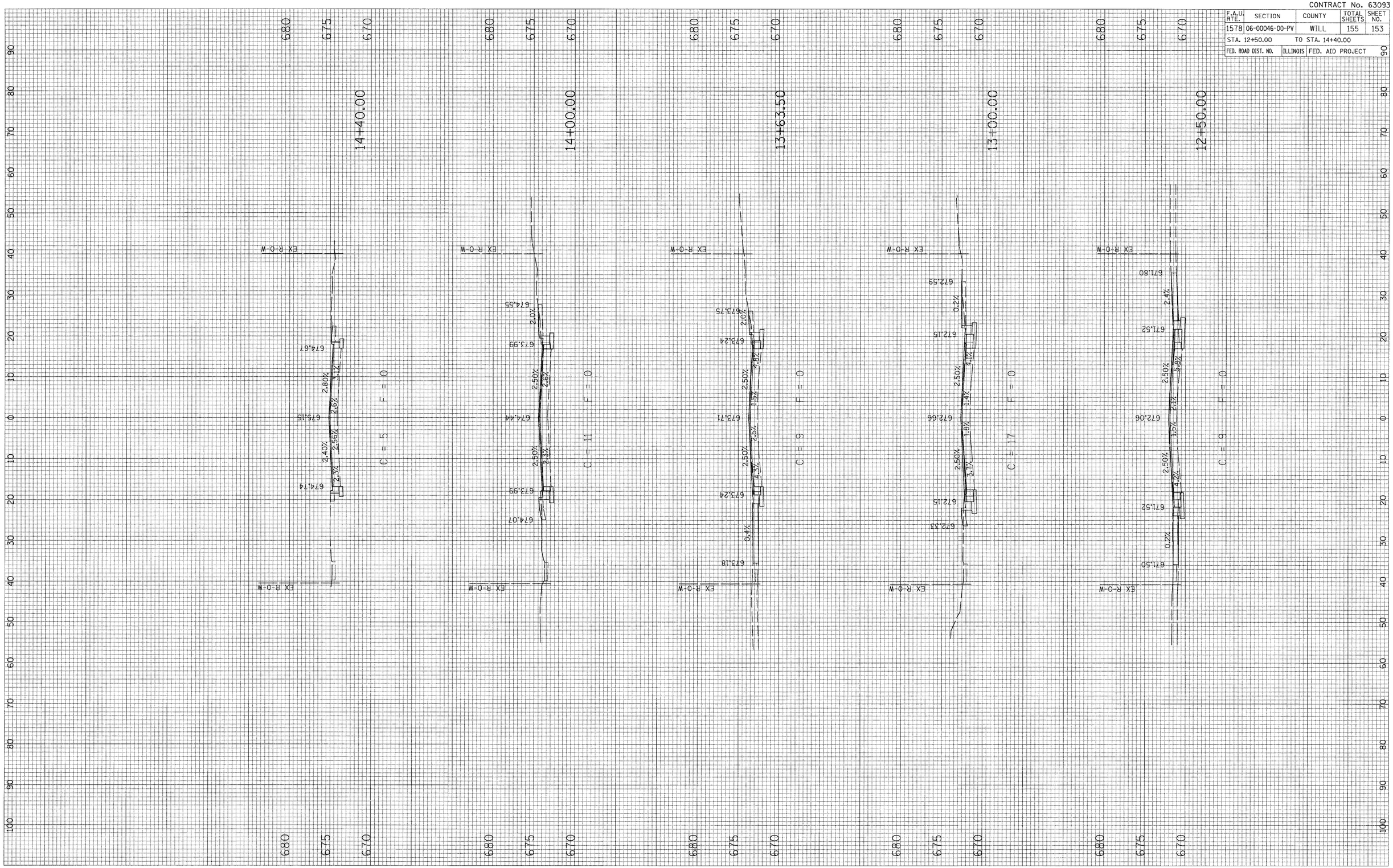
ORIGINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

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

PLOT DATE = $DATE$
FILE NAME = $FILEL$
PLOT SCALE = $SCALE$
USER NAME = $USER$

CONTRACT No. 63093

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1578	06-00046-00-PV	WILL	155	153
STA. 12+50.00		TO STA. 14+40.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



CROSS SECTIONS – SCHMIDT ROAD

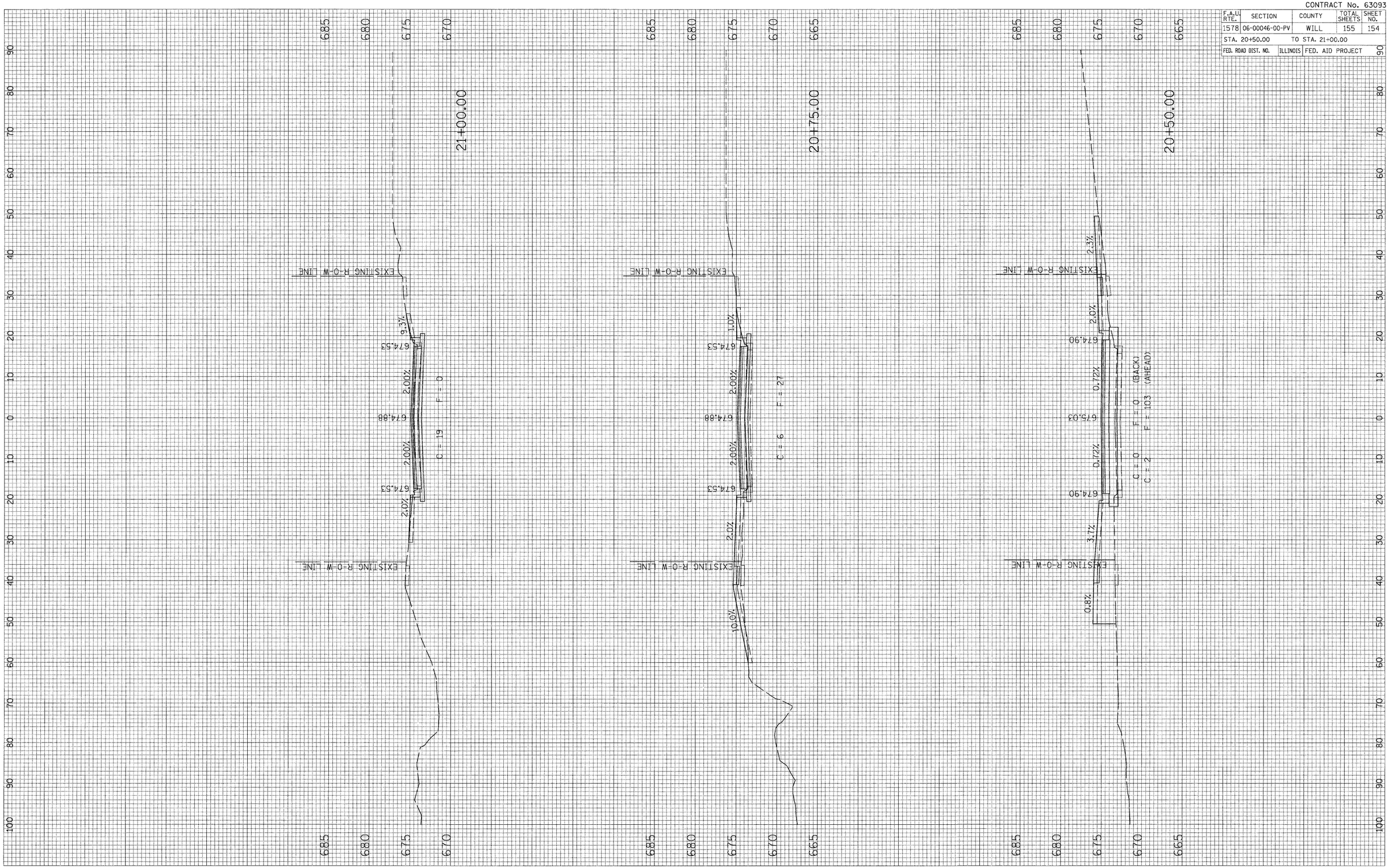
FINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

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

PLOT DATE = $DATE$
FILE NAME = $FILEL$
PLOT SCALE = $SCALE$
USER NAME = $USER$

CONTRACT No. 63093

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1578	06-00046-00-PV	WILL	155	154
STA. 20+50.00		TO STA. 21+00.00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



CROSS SECTIONS – CANTERBURY LANE

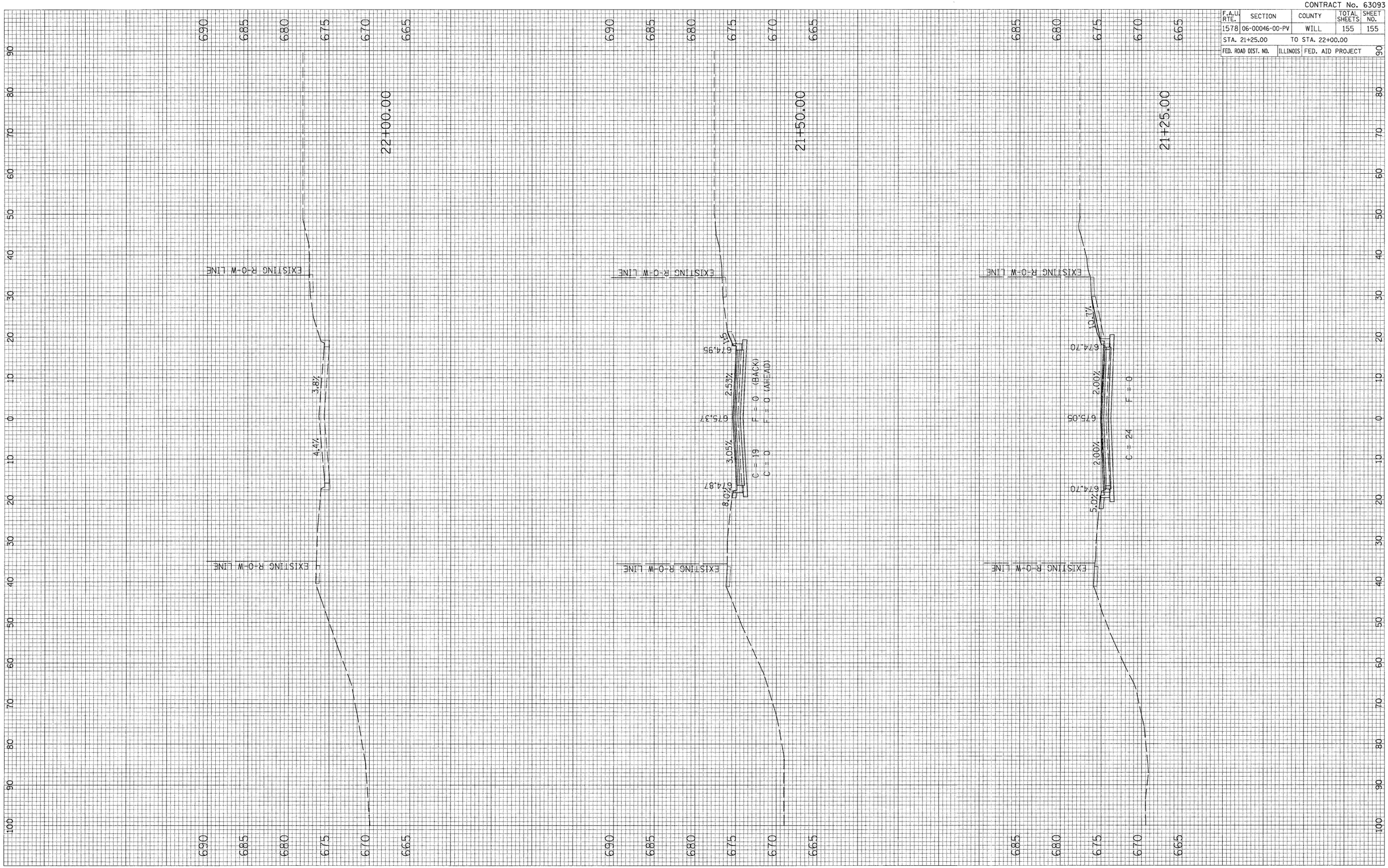
ORIGINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE

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

PLOT DATE = #DATE#
FILE NAME = #FILE#
PLOT SCALE = #SCALE#
USER NAME = #USER#

CONTRACT No. 63093

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1578	06-00046-00-PV	WILL	155	155
STA. 21+25.00		TO STA. 22+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

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

PLOT DATE = ⊕DATE⊕
FILE NAME = ⊕FILE⊕
PLOT SCALE = ⊕SCALE⊕
USER NAME = ⊕USER⊕

CROSS SECTIONS – CANTERBURY LANE

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				1516
STA.		TO STA.		
FED. ROAD DIST. NO. 1	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.

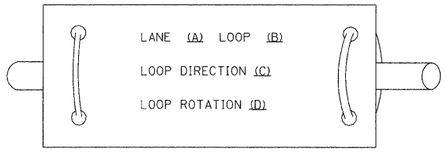
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.

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.

LOOP LEAD-IN CABLE TAG

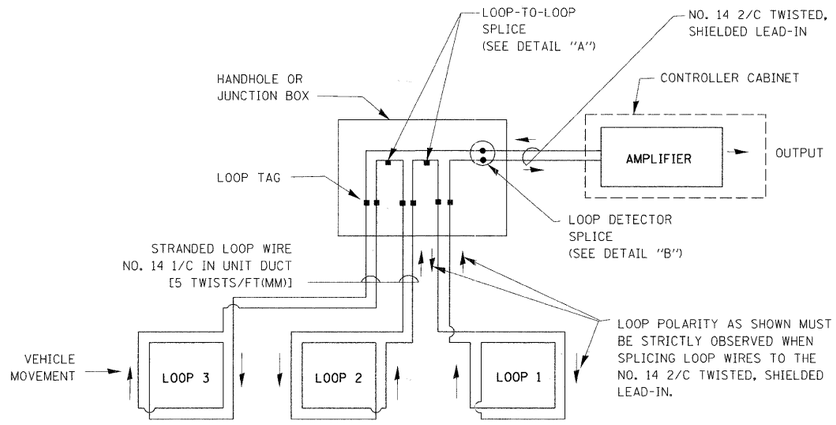


A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY

B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.

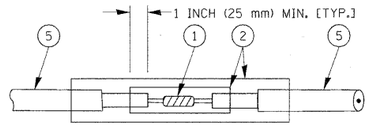
C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".

D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

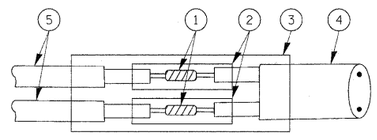


DETECTOR LOOP WIRING SCHEMATIC

- 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.



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 LENGHT 6" (150 mm), UNDERWATER GRADE.

(4) NO. 14 2/C TWISTED, SHIELDED CABLE.

(5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.

REVISIONS	
NAME	DATE
CADD	5/30/00
ADD NOTE NO. 8	11/12/01
BUREAU OF TRAFFIC	1-01-02

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL
DESIGN DETAILS

SCALE: VERT. NONE
HORIZ.
DATE 10/18/2002

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

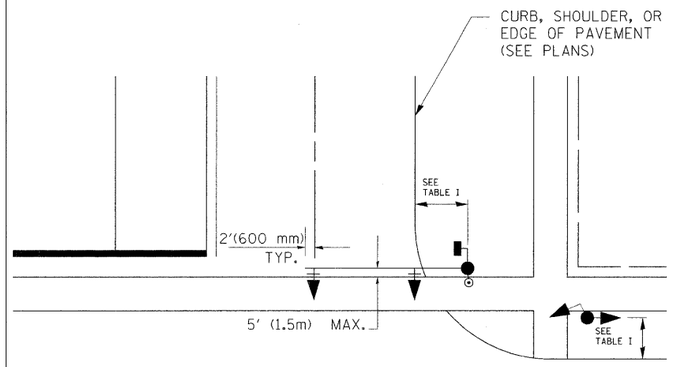
10/18/2002
c:\projects\d1stsd\ts05.dgn
VHTS05

REVISION DATE: 01/01/02

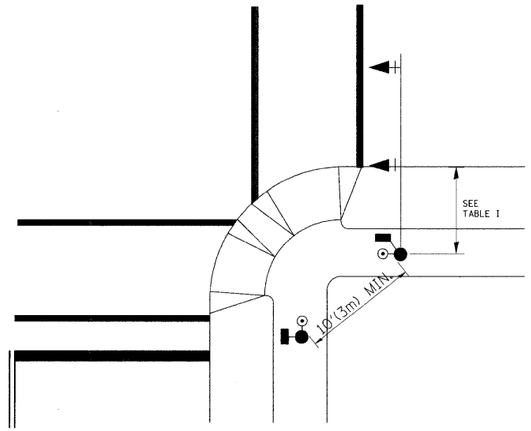
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				157
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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:

1. 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

2. 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.

3. 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.

4. 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

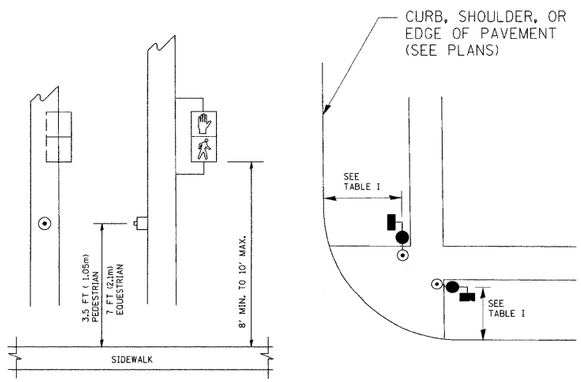


TABLE I

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
BUREAU OF TRAFFIC	1/01/02

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT 1

STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: VERT. HORIZ. NONE

DATE 10/18/2002

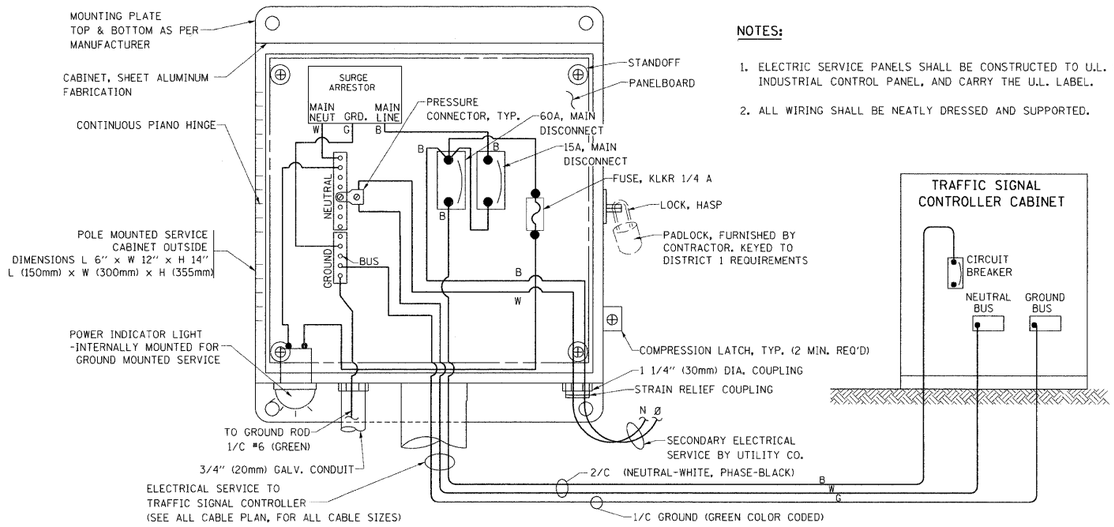
DRAWN BY: RWP
DESIGNED BY: DAD
CHECKED BY: DAZ
SHEET 2 OF 4

TS05

10/18/2002
c:\projects\d1ststd\ts05.dgn
V1-TS05

REVISION DATE: 01/01/02

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				158
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



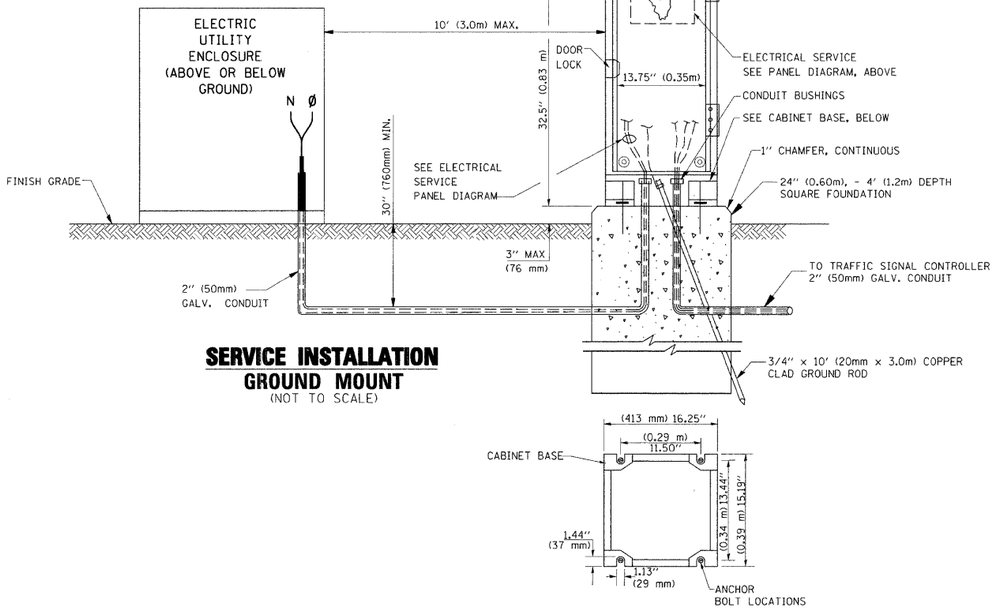
ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)

NOTES:

1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508, INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL.
2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

SERVICE INSTALLATION POLE MOUNT (SHOWN)

(NOT TO SCALE)

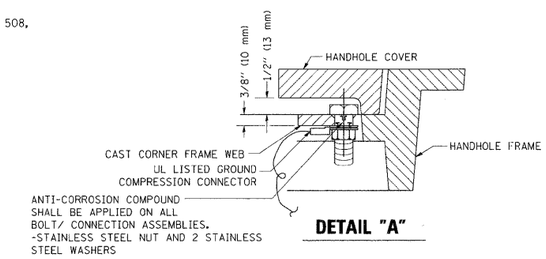


SERVICE INSTALLATION GROUND MOUNT

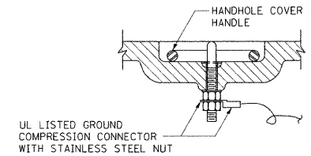
(NOT TO SCALE)

CABINET – BASE BOLT PATTERN

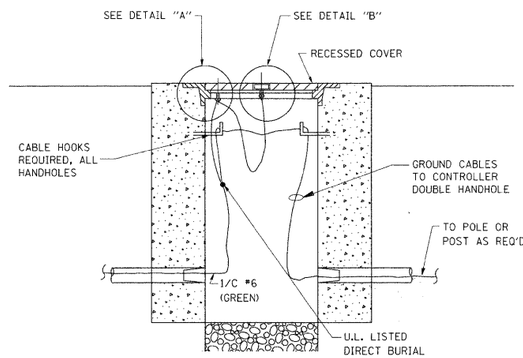
(NOT TO SCALE)



DETAIL "A"

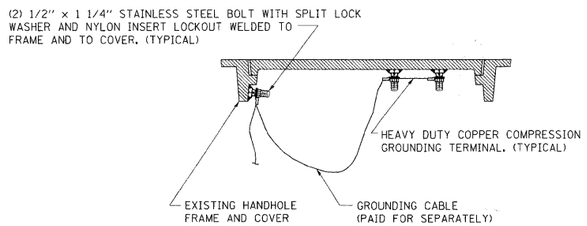


DETAIL "B"



HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)



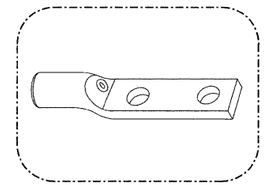
EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)

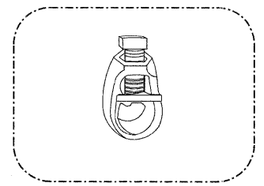
NOTES:

GROUNDING SYSTEM

1. 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.
2. 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.
3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



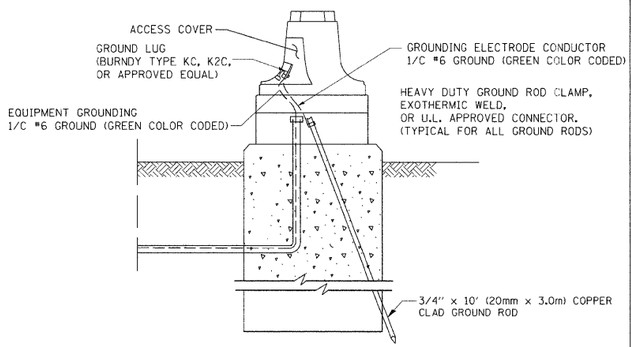
HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)



3/4" (20mm) HEAVY-DUTY GROUND ROD CLAMP (BURNDY TYPE GRC OR APPROVED EUAL)

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
CADD	5/30/00
CADD	3/15/01
BUREAU OF TRAFFIC	1/01/02

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

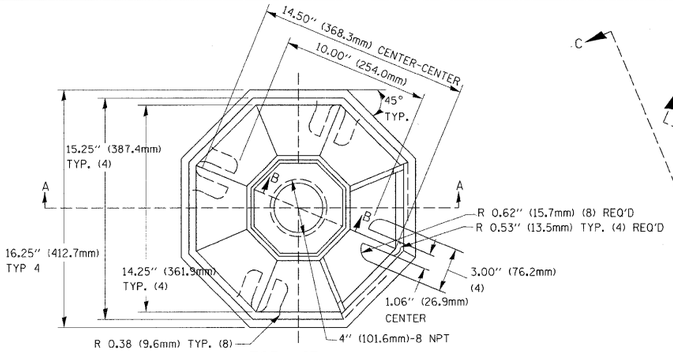
SCALE: VERT. NONE
HORIZ.
DATE 10/18/2002

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

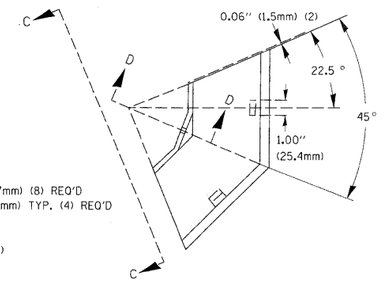
TS05

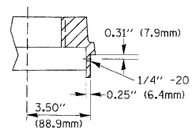
10/18/2002
c:\projects\d1stsd\ts05.dgn
VI-TS05

REVISION DATE: 01/01/02

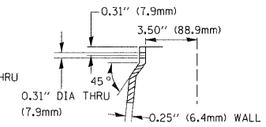


TOP VIEW

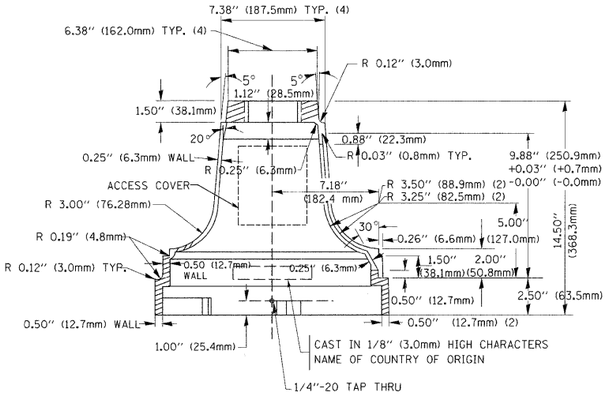




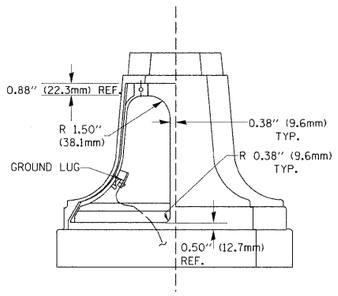
SECTION B-B



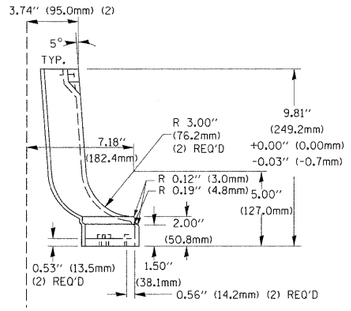
SECTION D-D



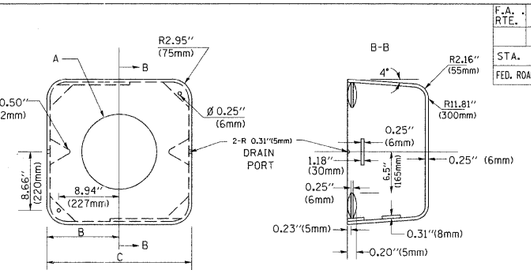
SECTION A-A



VIEW C-C



TRAFFIC SIGNAL POST - MOUNTING BASE - TYPE A



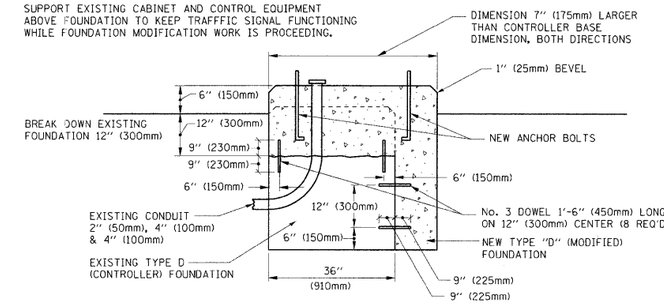
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				159
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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

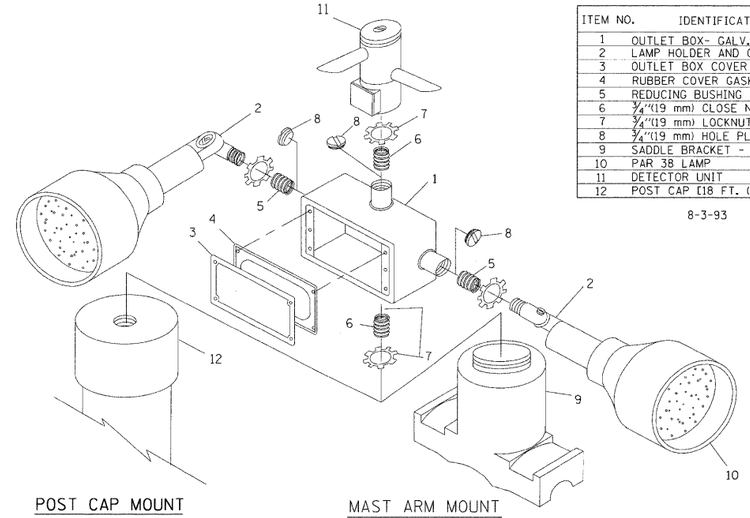
SHROUD DETAIL

NOTE:
SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



MODIFY EXISTING TYPE "D" FOUNDATION

(NOT TO SCALE)



POST CAP MOUNT

MAST ARM MOUNT

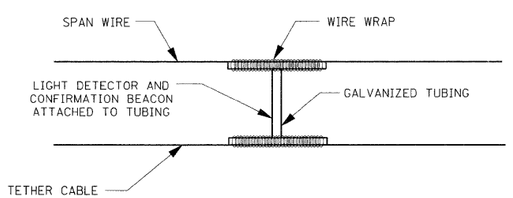
EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	¾"(19 mm) CLOSE NIPPLE
7	¾"(19 mm) LOCKNUT
8	¾"(19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	PAR 38 LAMP
11	DETECTOR UNIT
12	POST CAP (18 FT. (5.4 m) POST MIN.)

8-3-93

NOTES:

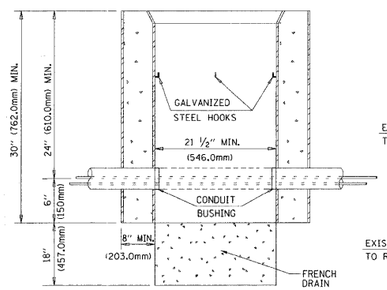
1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
   ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
   ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A ¾"(19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



LIGHT DETECTOR AND CONFIRMATION BEACON MOUNTING FOR TEMPORARY TRAFFIC SIGNALS

(NOT TO SCALE)

NOTES:
1. REMOVAL OF EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHING SHALL BE INCIDENTAL TO THE HANDHOLE.



DETAIL
HANDHOLE TO INTERCEPT EXISTING CONDUIT
N.T.S.

REVISIONS	
NAME	DATE
BUREAU OF TRAFFIC	5/30/00
BUREAU OF TRAFFIC	3/15/01
BUREAU OF TRAFFIC	11/12/01
BUREAU OF TRAFFIC	1-01-02

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

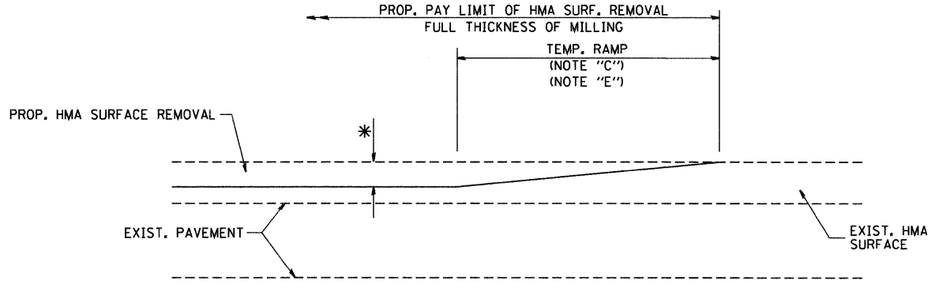
SCALE: VERT. NONE
HORIZ.
DATE 10/18/2002

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

TS05

10/18/2002
c:\projects\d1ststd\ts05.dgn
V1-TS05

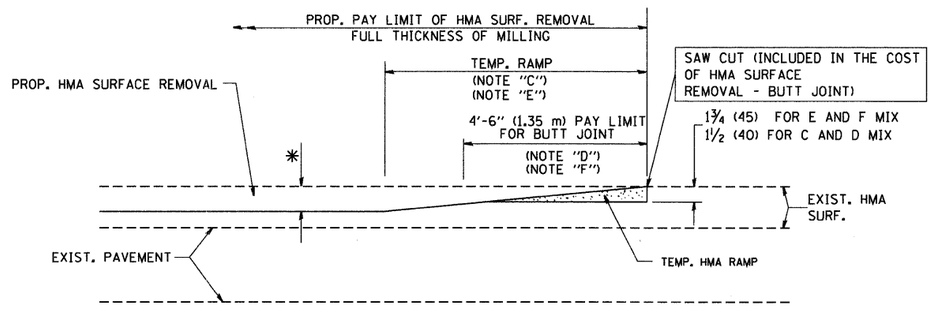
REVISION DATE: 01/01/02



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

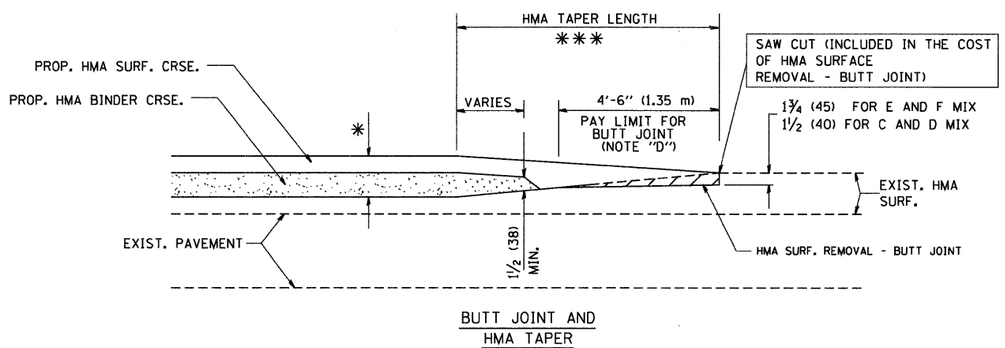


HMA CONSTRUCTED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

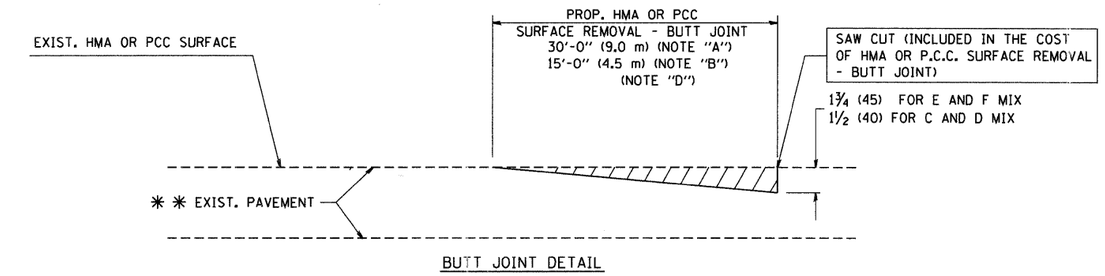
OPTION 2

TYPICAL TEMPORARY RAMP

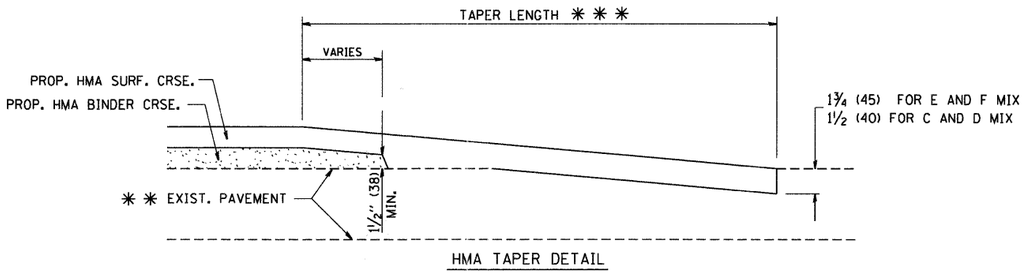


BUTT JOINT AND HMA TAPER

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")

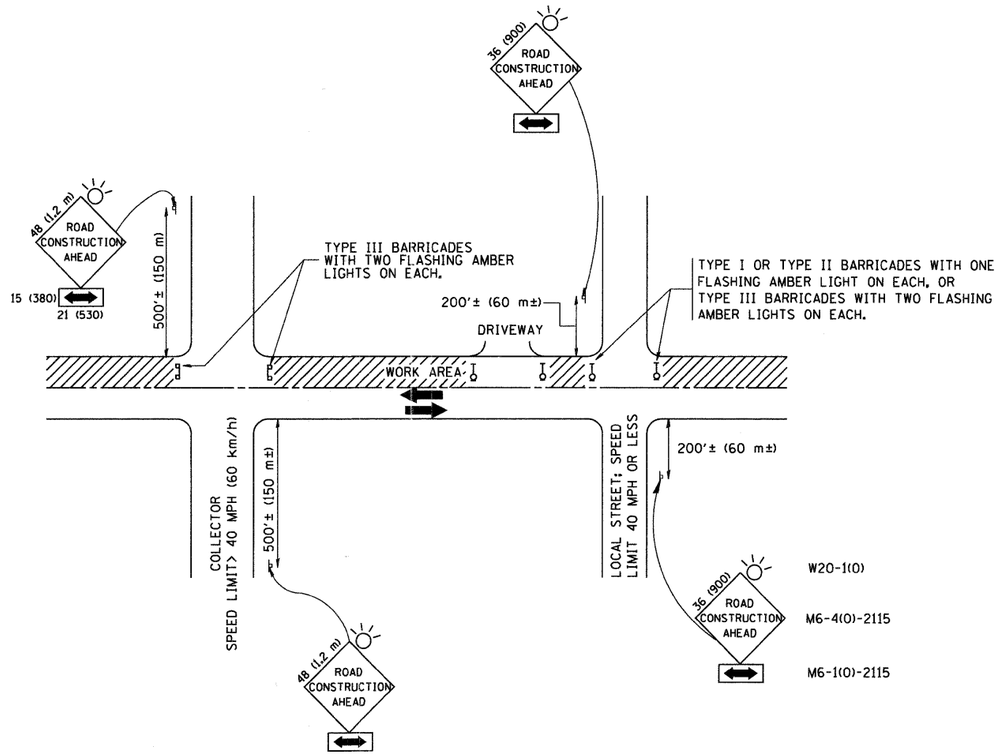
BASIS OF PAYMENT:

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".

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

FILE NAME = W:\diststd\22x34\bd32.dgn	USER NAME = gaglianobt	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BUTT JOINT AND HMA TAPER DETAILS
		DRAWN -	REVISED - A. ABBAS 03-21-97		
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED - M. GOMEZ 04-06-01		
	PLOT DATE = 1/4/2008	DATE - 06-13-90	REVISED - R. BORO 01-01-07		SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				20
	BD400-05 BD32	CONTRACT NO.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



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

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
   a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
   a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.

D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

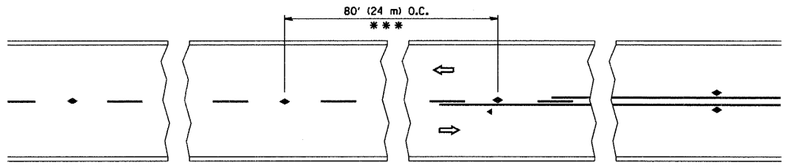
FILE NAME = W:\diststd\22x34\tc10.dgn	USER NAME = gaglionobt	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
		DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 1/4/2008	DATE - 06-89	REVISED -T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

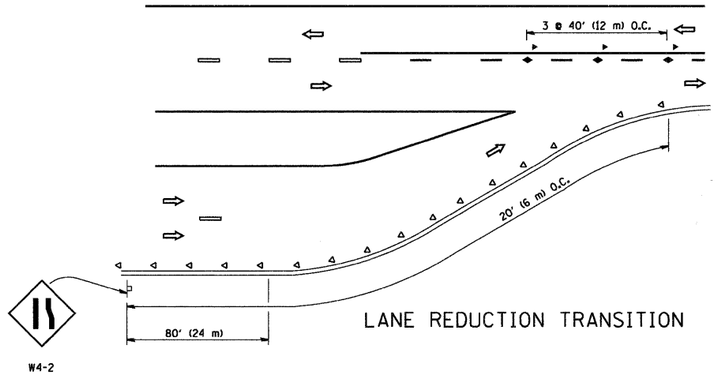
SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				1129
	TC-10	CONTRACT NO.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

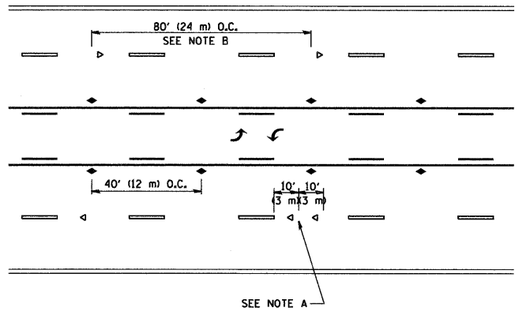


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

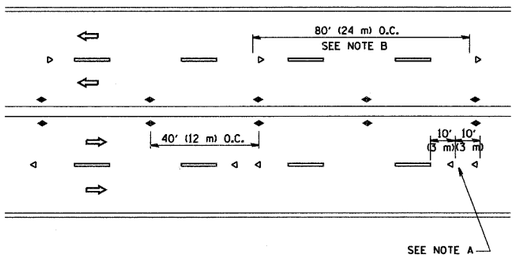
TWO-LANE/TWO-WAY



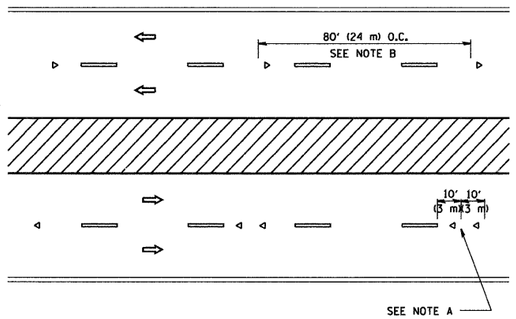
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

SYMBOLS

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

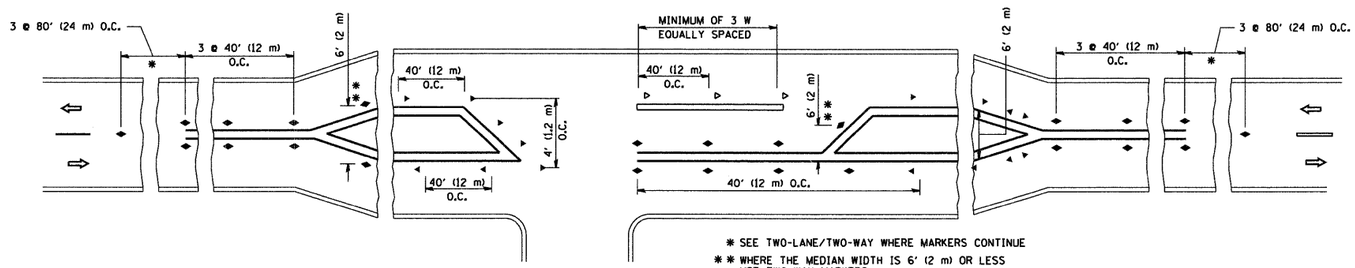
LANE MARKER NOTES

B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

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.



* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE

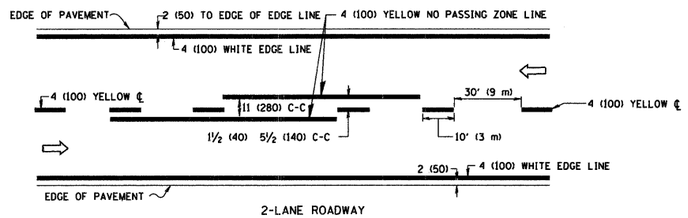
** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

LEFT TURN

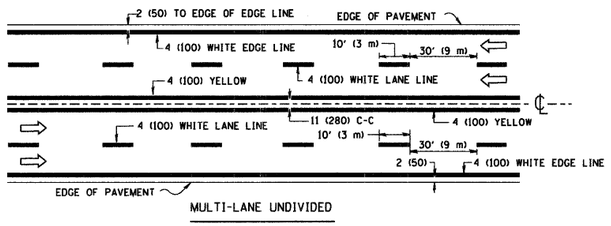
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME = W:\diststd\22x34\tc11.dgn	USER NAME = gaglianobt	DESIGNED -	REVISED - T. RAMMACHER 09-19-94	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)**
		DRAWN -	REVISED - T. RAMMACHER 03-12-99		
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - T. RAMMACHER 01-06-00		SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.
	PLOT DATE = 1/4/2008	DATE -	REVISED -		

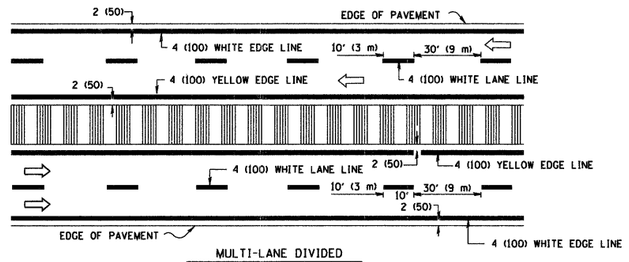
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				1602
	TC-11	CONTRACT NO.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



2-LANE ROADWAY



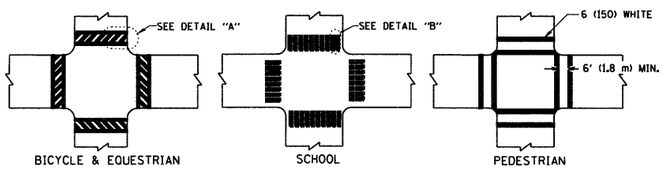
MULTI-LANE UNDIVIDED

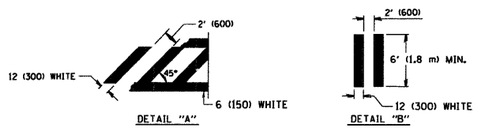


MULTI-LANE DIVIDED
WITH MOUNTABLE MEDIAN

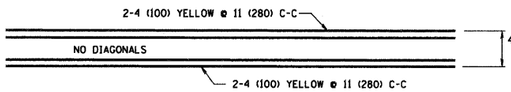
NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING

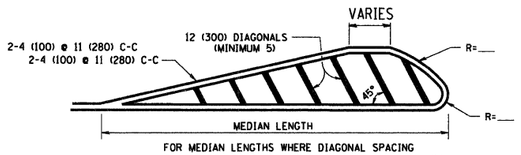




TYPICAL CROSSWALK MARKING



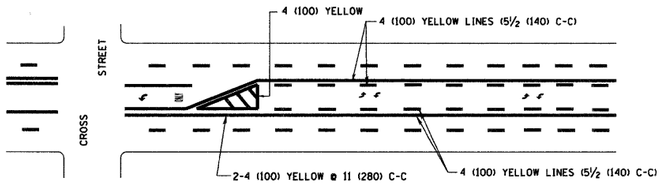
4' (1.2 m) WIDE MEDIANS ONLY



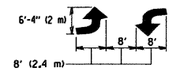
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

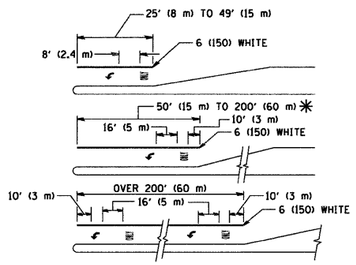


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

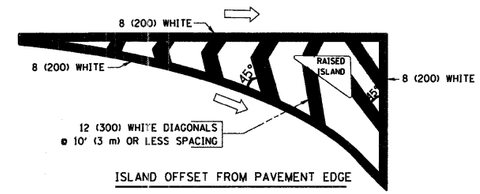


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
↰ AREA = 15.6 SQ. FT. (1.5 m^2) ONLY AREA = 20.8 SQ. FT. (1.9 m^2)

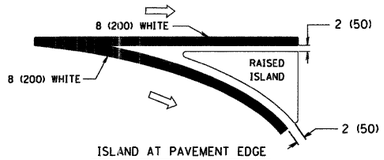
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING

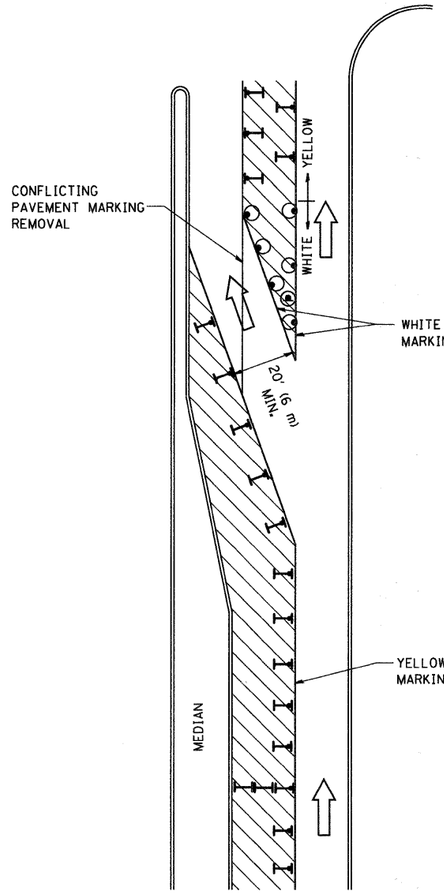
TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVEDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" 15 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))

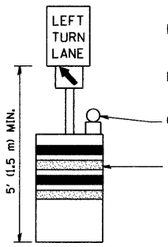
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

FILE NAME = W:\diststd\22x34\tc13.dgn	USER NAME = gaglionobt	DESIGNED - EVERS	REVISED -T. RAMMACHER 10-27-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
		DRAWN -	REVISED -A. HOUSEH 10-09-96		
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED -A. HOUSEH 10-17-96		SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.
	PLOT DATE = 1/4/2000	DATE - 03-19-90	REVISED -T. RAMMACHER 01-06-00		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				163
	TC-13	CONTRACT NO.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		





R 3-1100L 24 x 24 (600 x 600)

M6-2L 21 x 15 (530 x 380)

OPTIONAL FLASHING LIGHT

STANDARD 702001
DRUM FILLED WITH ENOUGH
SAND (BAGS) FOR STABILIZATION

GENERAL NOTES

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

LEGEND

WORK AREA

LANE OPEN TO TRAFFIC

TYPE I OR II BARRICADE WITH
STEADY BURN LIGHT

DRUM WITH STEADY BURN LIGHT

DRUM WITH SIGN (WITH OPTIONAL FLASHING
LIGHT) SEE DETAIL

TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

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

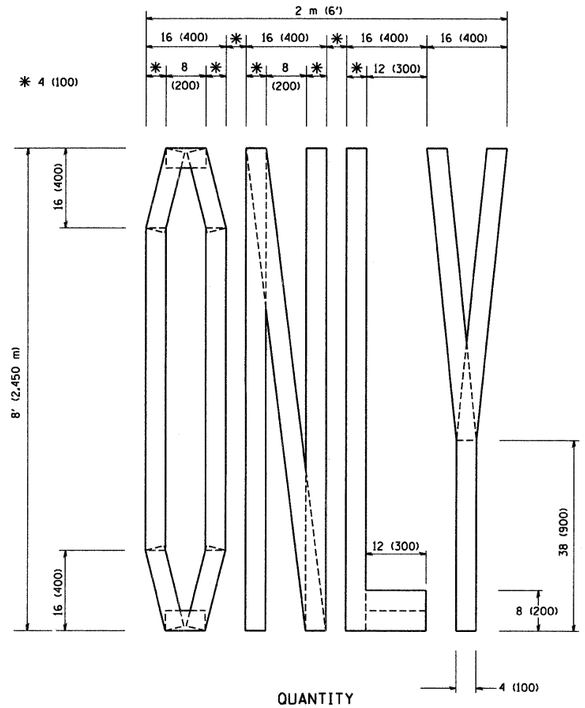
FILE NAME = W:\diststd\22x34\tc14.dgn	USER NAME = gaglianobt	DESIGNED -	REVISED -T. RAMMACHER 09-08-94
		DRAWN -	REVISED - A. HOUSEH 11-07-95
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED - A. HOUSEH 10-12-96
	PLOT DATE = 1/4/2008	DATE -	REVISED -T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

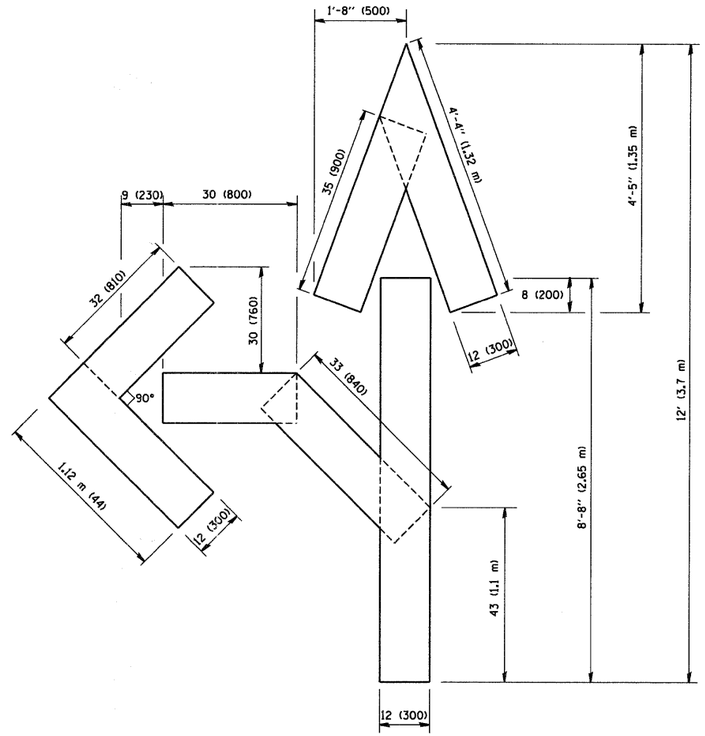
TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
(TO REMAIN OPEN TO TRAFFIC)

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

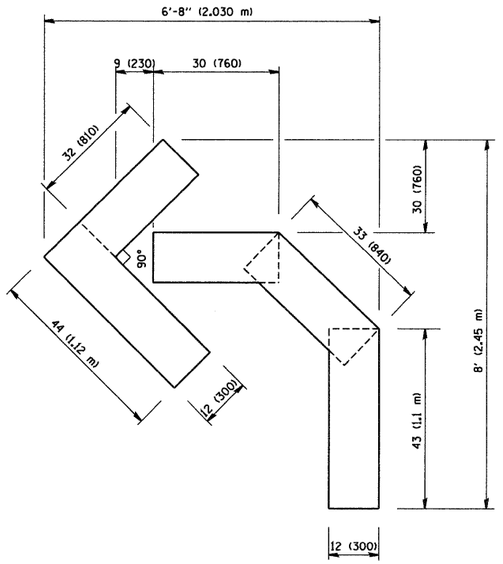
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-14	CONTRACT NO.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



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



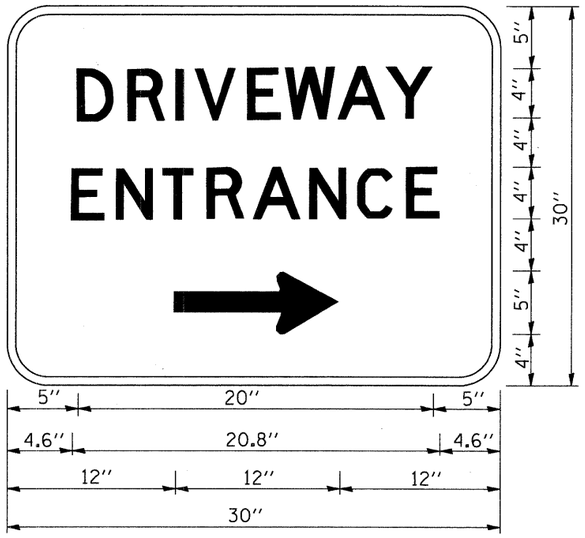
QUANTITY
4 (100) LINE = 82.5 ft. (25.3 m)
27.5 sq. ft. (2.53 sq. m)



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

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

FILE NAME = W:\diststd\22x34\tc16.dgn	USER NAME = gaglionobt	DESIGNED -	REVISED -T. RAMMACHER 06-05-96	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING	F.A. RTE.	SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
		DRAWN -	REVISED -T. RAMMACHER 11-04-97				1405
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -T. RAMMACHER 03-02-98				TC-16 / CONTRACT NO.
	PLOT DATE = 1/4/2008	DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00		SCALE: NONE / SHEET NO. 1 OF 1 SHEETS / STA. / TO STA.		FED. ROAD DIST. NO. 1 / ILLINOIS / FED. AID PROJECT



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

NOTES:

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

FILE NAME = W:\diststd\22x34\tc26.dgn	USER NAME = gaglionobt	DESIGNED -	REVISED - C. JUCIUS 02-15-07
		DRAWN -	REVISED -
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -
	PLOT DATE = 1/4/2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRIVEWAY ENTRANCE SIGNING

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				1
	TC-26	CONTRACT NO.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		