

FIBER OPTIC CABLE TERMINATION NOTES (SINGLE MODE CABLE)

- 1. THE PROPOSED FIBER OPTIC CABLE SHALL BE TERMINATED AS SHOWN.
- ALL CABLE SPLICES AND TERMINATIONS SHALL BE FUSION SPLICED.
- 3. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS REQUIRED FOR FIBER OPTIC CABLE TERMINATION, INCLUDING, BUT NOT LIMITED TO, BREAKOUT KITS, FANOUT KITS, ENCLOSURES, WEATHERPROOF SPLICE BOOTS, SPLICE SLEEVES, CONNECTORS, ETC.
- 4. ALL ST CONNECTORS SHALL BE FUSION SPLICED UTILIZING PRE-FORMED CABLES WITH CONNECTORS THAT ARE FUSION SPLICED TO THE PROPOSED FIBER.
- 5. THE SINGLE MODE CABLE SHALL BE INSTALLED CONTINUOUS FROM THE PROPOSED TYPE 334 ITS CABINET LOCATED AT THE EAST END OF THE BRIDGE TO THE PROPOSED TYPE 334 ITS CABINET LOCATED AT THE WEST END OF THE BRIDGE.
- 6. ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO COMPLY WITH THESE REQUIREMENTS SHALL BE INCLUDED IN THE BID PRICE FOR THE PROPOSED 48 FIBER SINGLE MODE FIBER OPTIC CABLE. THERE WILL BE NO ADDITIONAL COMPENSATION FOR THIS WORK.

FIBER OPTIC CABLE TERMINATION NOTES (MULTIMODE CABLE)

- . THE PROPOSED FIBER OPTIC CABLE SHALL BE TERMINATED AS SHOWN.
- 2. ALL CABLE TERMINATIONS SHALL BE FUSION SPLICED OR SPLICED UTILIZING APPROVED MECHANICAL ST CONNECTORS.
- J. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS REQUIRED FOR FIBER OPTIC CABLE TERMINATION, INCLUDING, BUT NOT LIMITED TO, BREAKOUT KITS, FANOUT KITS, ENCLOSURES, SPLICE SLEEVES, CONNECTORS, ETC.

SECTION

[(72,90)5B]]-2

474

COUNTY

PEOR A/TAZEWELL

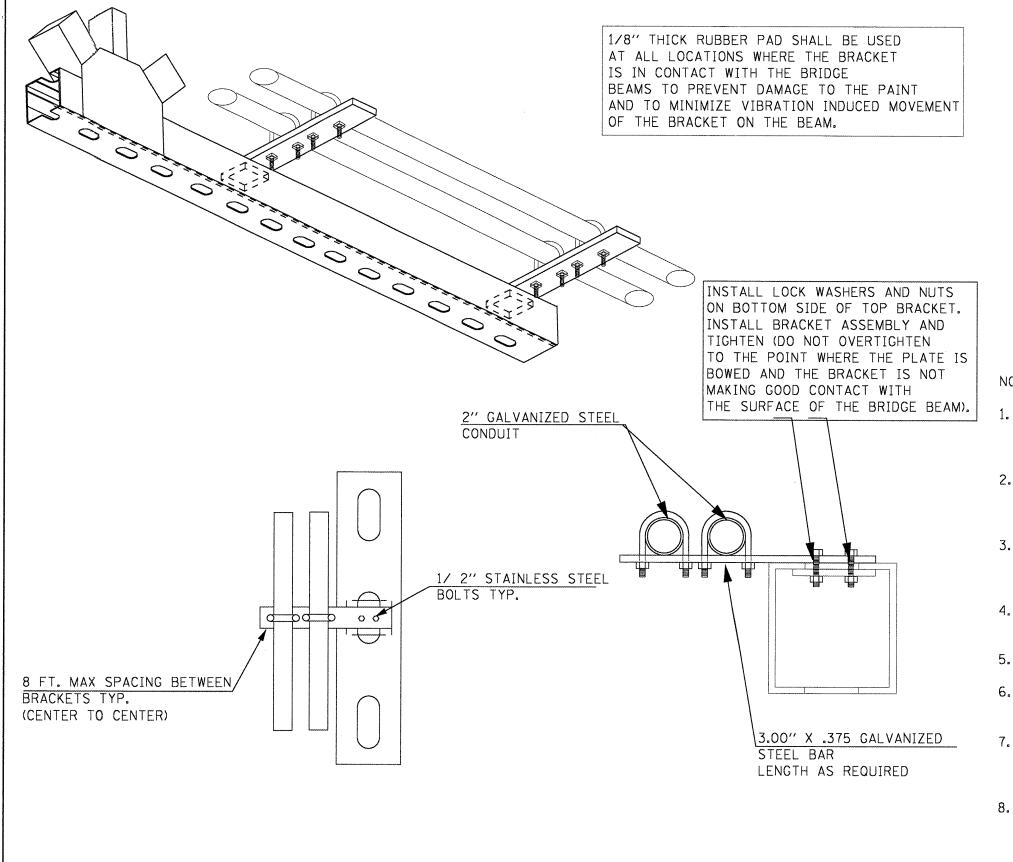
CONTRACT NO. 68069

4. ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO COMPLY WITH THESE REQUIREMENTS SHALL BE INCLUDED IN THE BID PRICE FOR THE PROPOSED 12 FIBER MULTIMODE FIBER OPTIC CABLE. THERE WILL BE NO ADDITIONAL COMPENSATION FOR THIS WORK.

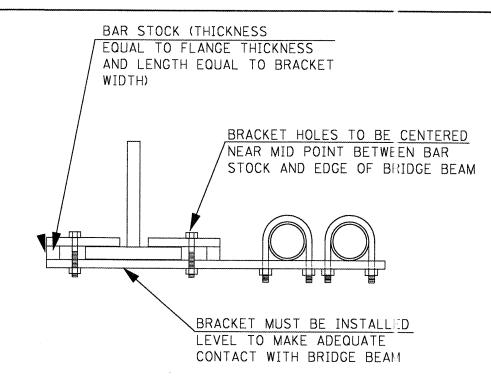
I-474 SHADE LOHMANN BRIDGE CCTV SURVEILLANCE

FIBER OPTIC CABLE TERMINATION DIAGRAM

ITS SHEET NO. 8 OF 16 SHEETS STA.



CONDUIT ATTACHMENT ON SUPERSTRUCTURE BOX BEAM

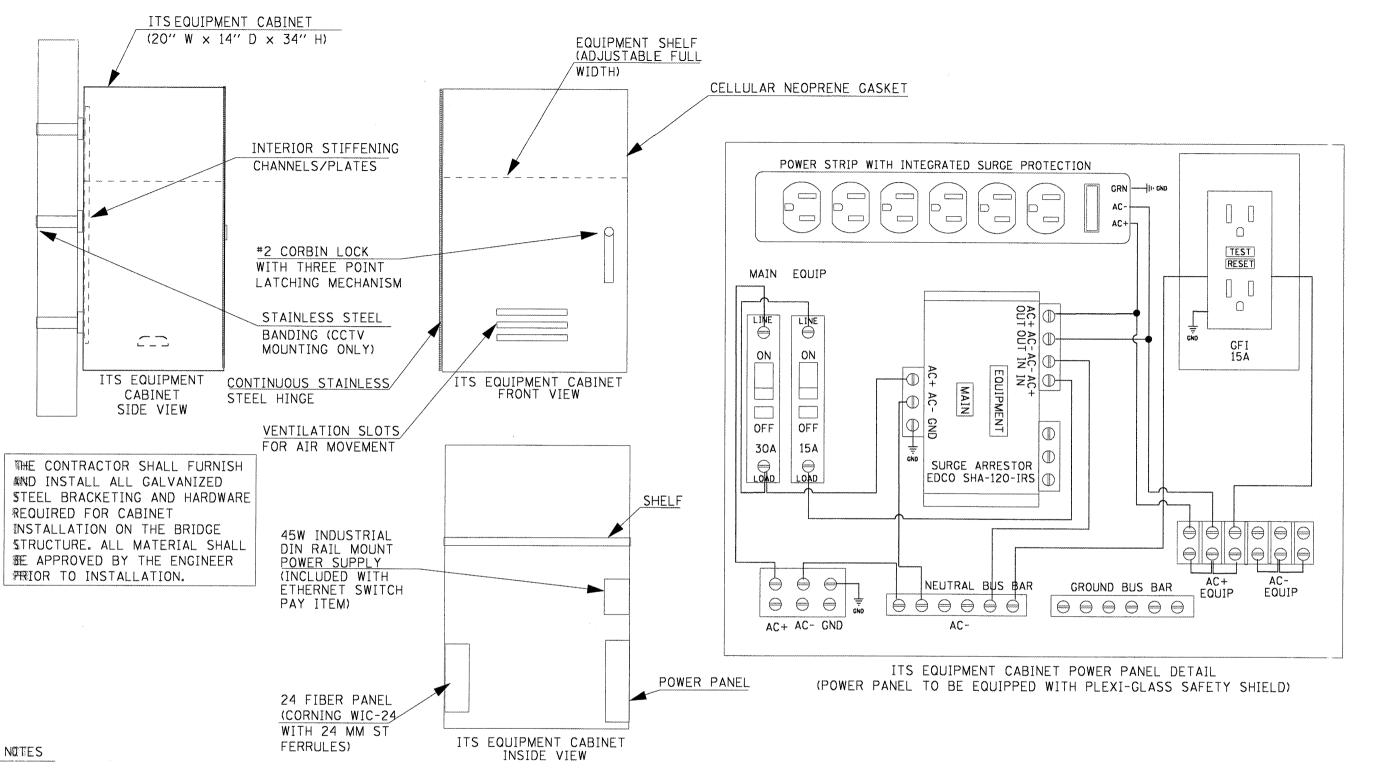


NOTES:

CONDUIT ATTACHMENT ON APPROACH SPANS

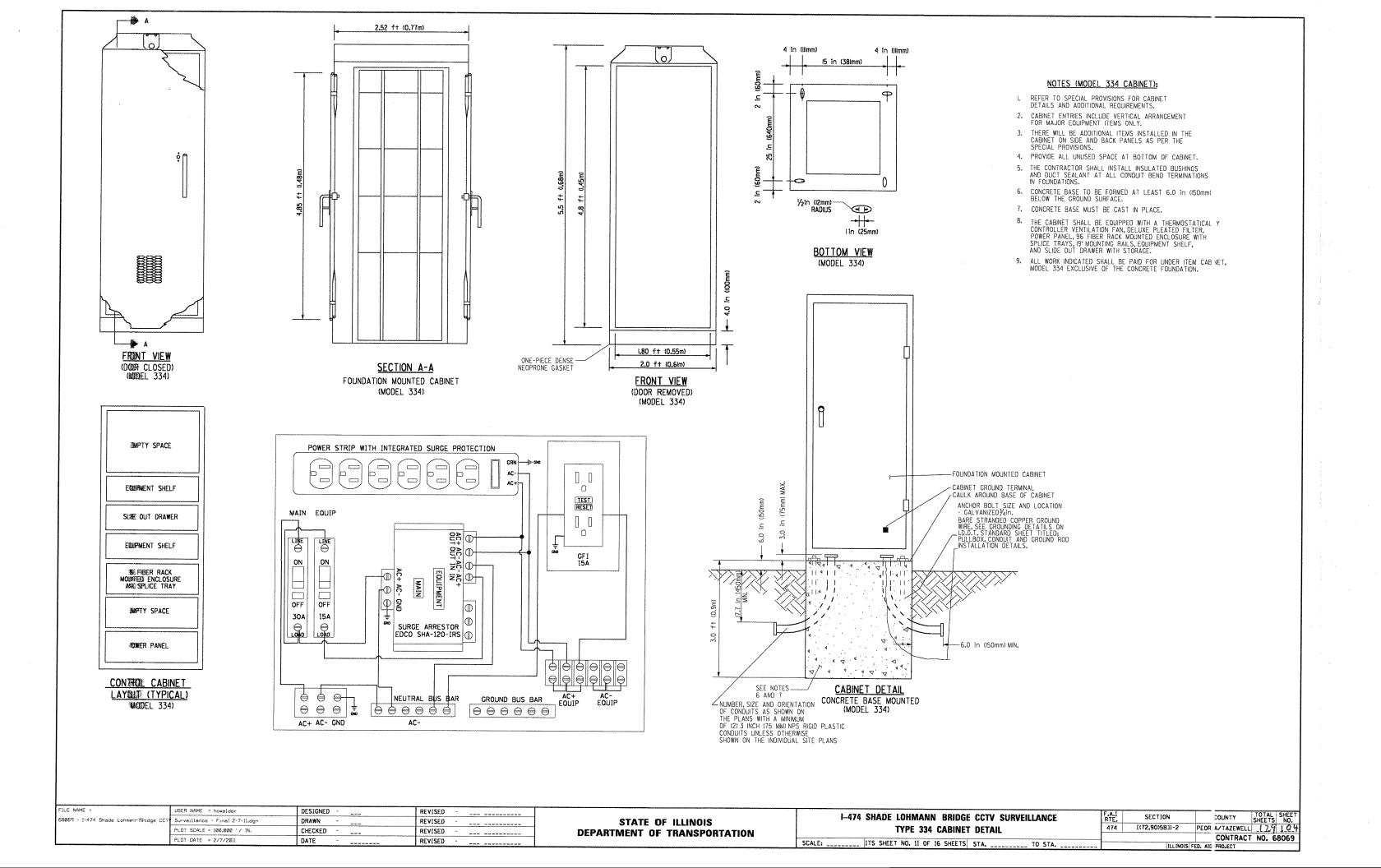
- 1. THE CONTRACTOR SHALL VERIFY AND FINALIZE ALL BRACKET DIMENSIONS. THE BRACKETS SHALL BE COMPATIBLE WITH EXISTING FIELD CONDITIONS.
- 2. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ENSURING THAT THE BRACKET DIMENSIONS ARE CORRECT PRIOR TO RELEASING THE BRACKETS FOR PRODUCTION.
- 3. THE CONTRACTOR SHALL CONSTRUCT PROTOTYPE BRACKETS AND INSTALL THEM ON THE STRUCTURE TO VERIFY FIT PRIOR TO RELEASE.
- 4. ALL HARDWARE SHALL BE1/2" DIAMETER STAINLESS STEEL (GRADE 18-8/304).
- 5. THE CONTRACTOR SHALL UTILIZE LOCK WASHERS WITH ALL NUTS.
- 6. THE CONTRACTOR SHALL UTILIZE THREAD LOCKER ON ALL THREADED CONNECTIONS.
- 7. ALL BRACKET COMPONENTS SHALL BE FULLY HOT DIPFED GALVANINZED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS (AASHTO M 111).
- 8. THERE WILL BE NO ADDITIONAL COMPENSATION FOR MINOR ADJUSTMENTS TO THE CONDUIT MOUNTING BRACKETS THAT ARE REQUIRED FOR COMPATIBILITY WITH EXISTING FIELD CONDITIONS.
- 9. THE CONTRACTOR SHALL SUBMIT A COMPLETE PACKAGE (INCLUDING CONDUIT BRACKETS, HARDWARE, ATTACHMENT POINTS, ATTACHMENT METHODS, ETC.) TO THE DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO COMMENCING WORK.

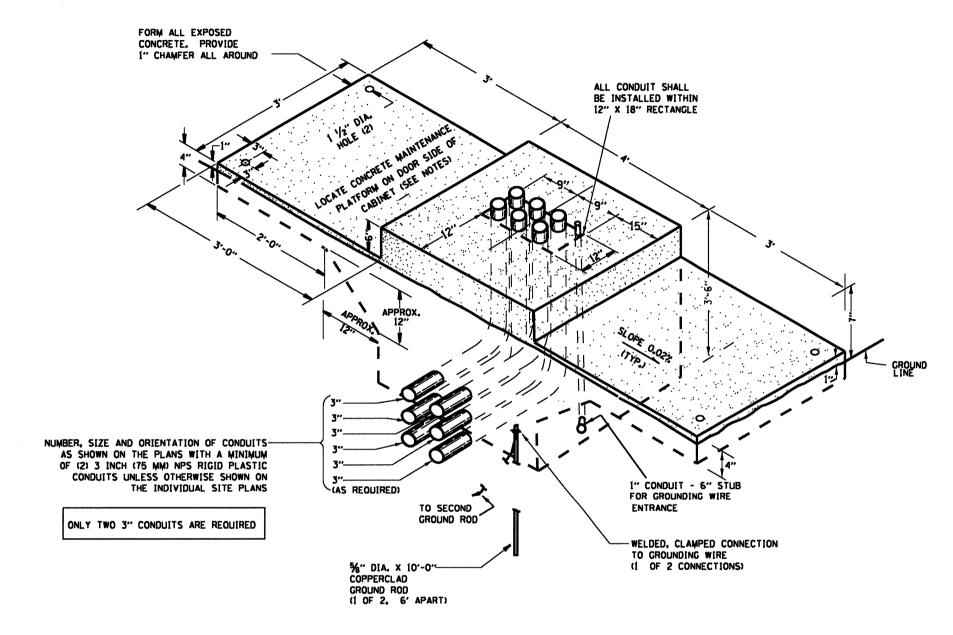
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68069 - 1-474 Shade Lohmann Bridge CCT	Surveillance - Final 2-7-li.dgn	DRAWN	REVISED -	STATE OF ILLINOIS	I-474 SHADE LOHMANN BRIDGE CCTV SURVEILLANCE	RIE. SHEETS NO.
	PLOT SCALE = 100.000 '/ IN.	CHECKED	REVISED -	DEPARTMENT OF TRANSPORTATION	CONDUIT BRACKET DETAIL	474 [(72,90)5B]I-2 PEOR A/TAZEWELL 129 [62] CONTRACT NO. 68069
	PLOT DATE = 2/7/2011	DATE	REVISED -		SCALE: ITS SHEET NO. 9 OF 16 SHEETS STA TO STA	



- 1. THE ITS EQUIPMENT CABINET SHALL BE A NEMA TYPE 3R CABINET WITH MINIMUM OUTSIDE DIMENSIONS OF 34" (H) X 20" (W) X 14" (D). THE CABINET SHALL BE CONSTRUCTED FROM .125" THICK ALUMINUM AND HAVE A NATURAL FINISH.
- 2. THE CABINET SHALL BE FURNISHED WITH ONE ADJUSTABLE HEIGHT SHELF, THREE POSITION DOOR STOP (90, 120, 180 DEGREES), NEOPRENE DOOR GASKET, AIR VENT LOUVERS, CONTINUOUS STAINLESS STEEL DOOR HINGE, INTERIOR STIFFENERS FOR MOUNTING, THREE POINT LATCHING MECHANISM WITH #2 CORBIN LOCK, 24 FIBER INTERCONNECT CENTER, POWER PANEL, AND ALL STAINLESS STEEL HARDWARE.
- 3. THE CABINET SHALL BE EQUIPPED WITH A THERMOSTATICALLY CONTROLLER VENTILATION FAN AND DELUXE PLEATED AIR FILTER.
- 4. THE CONTRACTOR SHALL INSTALL ALL DIN RAIL MOUNTED EQUIPMENT (ETHERNET SWITCH AND POWER SUPPLY) IN THE CABINET.

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	PLOT SCALE = 100.000 '/ IN.	CHECKED	REVISED	DEPARTMENT OF TRANSPORTATION	POLE MOUNTED EQUIPMENT CABINET, TYPE B DETAIL	CONTRACT NO. 68069
	PLOT DATE = 2/7/2011	DATE	REVISED		SCALE: ITS SHEET NO. 10 OF 16 SHEETS STA TO STA.	ILLINOIS FED. AID PROJECT





TYPICAL DETAIL CONCRETE BASE, CONTROLLER CABINET

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

INSTALL FOUR- 1/4 INCH DIAMETER X 12 INCH MINIMUM LENGTH APPROVED J-BOLTS TO ANCHOR THE CABINET BASES. THE ANCHOR BOLTS SHALL BE GALVANIZED STEEL AND LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 3 INCH.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

CONTROL CABINET BASE TOP SURFACES SHALL BE TROWEL FINISHED AND LEVEL, PRIOR TO CABINET INSTALLATION. LEVELING OF TOP SURFACES AFTER CONCRETE BASE HAS CURED SHALL ONLY BE ACCOMPLISHED BY GRINDING.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT = 6 X THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

CAP ALL BELOW GRADE METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

PLUG ALL BELOW GRADE NONMETALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6" MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

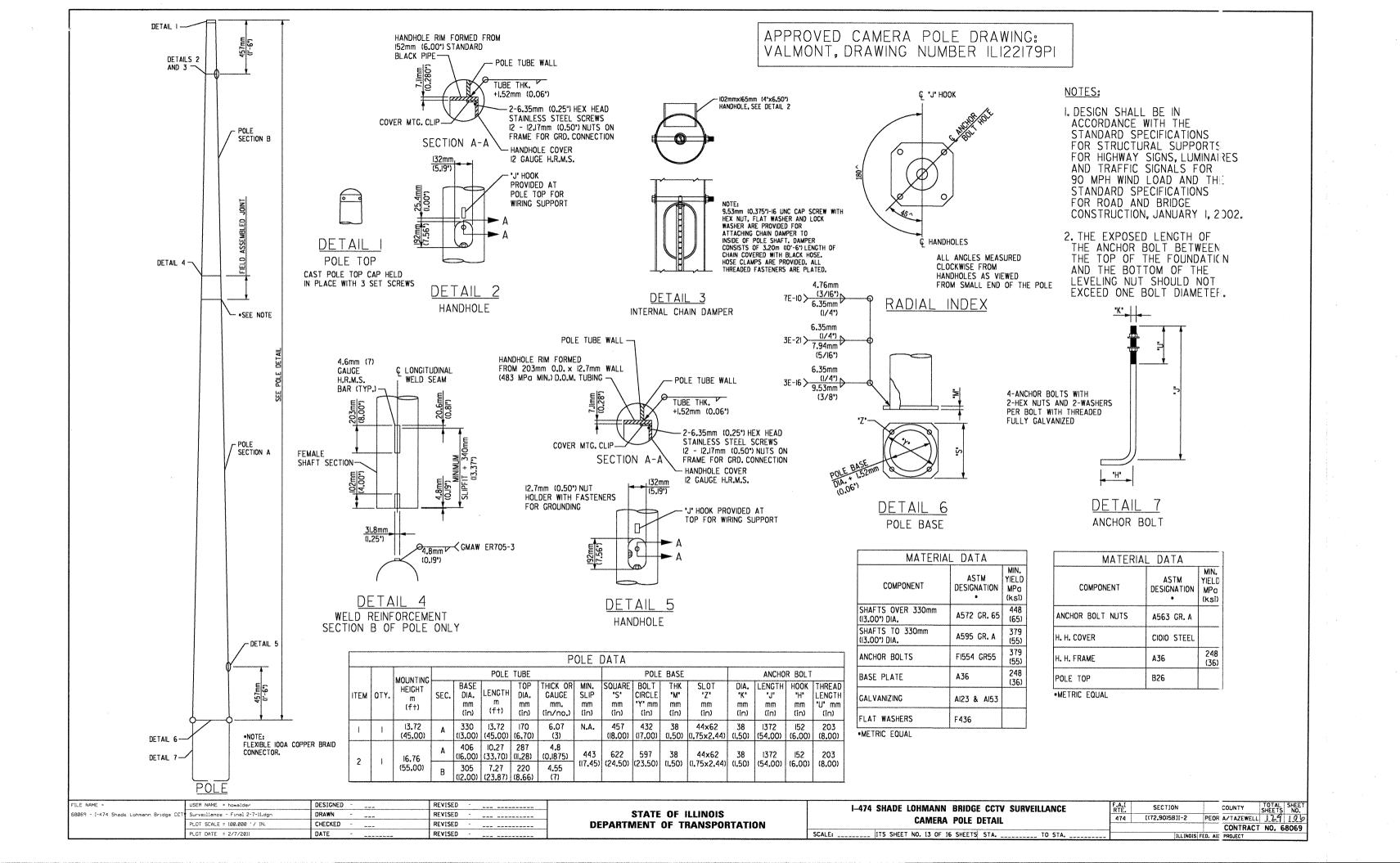
ALL METALLIC CONDUIT ENDS AT TOP OF CONCRETE BASES SHALL HAVE BUSHINGS IF WIRE IS INSTALLED AND ALL NON METALLIC CONDUIT ENDS AT TOP OF CONCRETE BASES SHALL HAVE END BELLS IF WIRE IS INSTALLED.

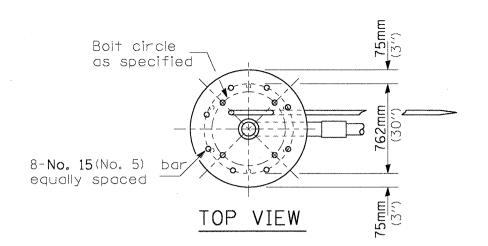
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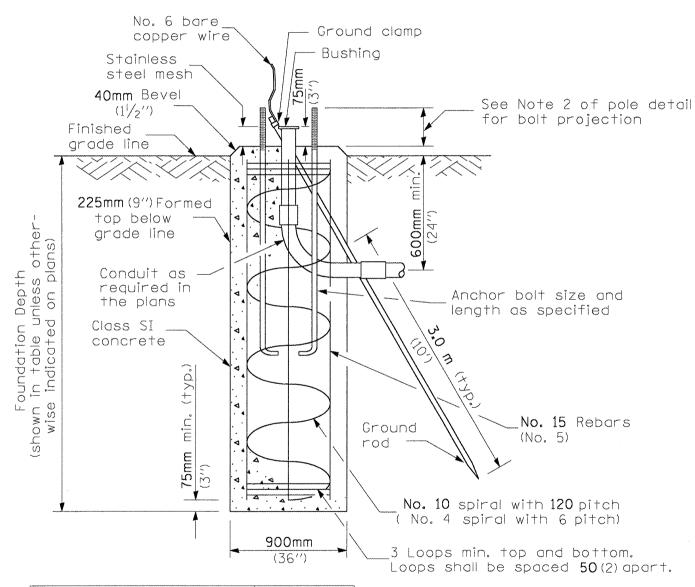
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1-474	SHADE	LOHMANN	BRIDGE CO	TV SURVEILLA	NCE
CONCRETE	FOUND	ATION, TYP	E 1 (MODEI	L 334 CABINET)	DETAIL
	ITS SHEE	T NO. 12 OF 1	6 SHEETS ST	A TO	STA.

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174	[172,90)58][-2	PEOR	A/TAZEWELL	129	Lø
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Pole Height	Foundation depth
13.7m (45′)	4.4 m (14′-6′′)
16.8m (55')	6.2 m (20′-4′′)

Notes:

- 1. The Engineer shall determine the class of soil during excavation. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 100 kPa (1.0 tsf). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
- 2. The anchor bolts and raceways shall be properly secured in place.
- 3. Concrete shall be class "SI" Concrete and the foundation must be cured for ten (10) days before the pole is erected.
- 4. The cable trench shall be backfilled and firmly compacted before the pole is erected.
- 5. For sloping grades, the foundation design depth shall be increased by the corresponding cross slope shaft depth increase factor given by:
 - A. Cohesive soil cross slope shaft increase factor 0.009 x (slope angle) + 1.0
 - B. Granular soil cross slope shaft increase factor 0.00005 x (slope angle) + 1.0
- 6. Install grounding system in accordance with Section 806 of the IDOT Standard Specifications.

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8069 - I-474 Shade Lohmann Bridge CCT	Surveillance - Final 2-7-11.dgn	DRAWN		-	REVISED	-	
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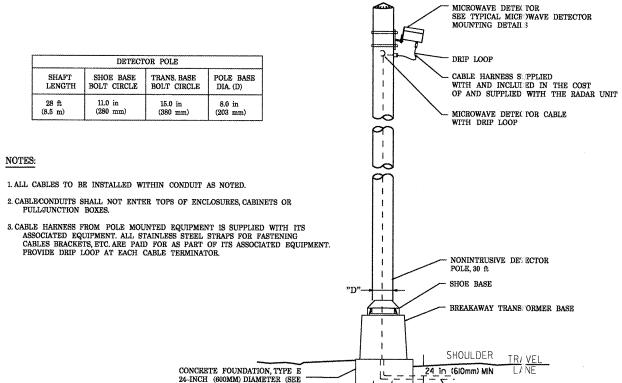
	I-474	SHADE	LOHN	MANN	BRID	GE CC	TV SU	RVE
	CA	MERA	POLE	CONC	RETE	FOUND	ATION	D
SCALE:		ITS SH	EET NO.	14 OF	16 SHEE	TS STA	·	

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

VEILLANCE	F.A.I RTE.	SECTION	<u> </u>	COUNTY	TOTAL	SHEET NO.
DETAIL	474	[(72,90)58][-2	PEOF	A/TAZEWELL	129	10.7
				CONTRACT	NO. 6	8069
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HORIZONTAL OFFSET FT (M) MOUNTING HEIGHT FT (M) MINIMUM | MAXIMUM | RECOMMENDED 17.0 (5.2) 17.0 (5.2) 17.0 (5.2) 17.0 (5.2) 17.0 (5.2) 23.0 (7.0) 10.0 (3.0) 15.0 (4.6) SHAFT 17.0 (5.2) 17.0 (5.2) 20.0 (6.i) 25.0 (7.6) 30.0 (9.i) 35.0 (10.7) 40.0 (12.2) 20.0 (6.1) 25.0 (7.6) 25.0 (7.6) 25.0 (7.6) HORIZONTAL OFFSET (SEE TABLE 1) 50.0 (15.2) 25.0 (7.6) NOTES: DIMENSIONS REFERENCED FROM THE EDGE OF PAVEMENT. NOTES: DETECTOR UNIT TO BE AIMED AT CENTER OF DETECTION ZONE. WHEN TWO DETECTORS ARE USED IN TANDEM AT A GIVEN LOCATION, DETECTION ZONE SHALL INCLUDE ALL TRAVEL LANES IN A SINGLE DIRECTION NEAREST EACH DETECTOR. WHEN A SINGLE DETECTOR IS USED AT A GIVEN LOCATION, THE DETECTOR ZONE SHALL INCLUDE ALL TRAVEL LANES IN BOTH DIRECTIONS. FINAL SETUP AND CALIBRATION TO BE PERFORMED BY MANUFACTURER'S FIELD REPRESENTATIVE IN CONJUNCTION WITH THE SYSTEMS INTEGRATOR. SEE MICROWAVE DETCTOR MOUNTING DETAILS (SHEET 54) APPROVED MICROWAVE POLE DRAWING: VALMONT, DRAWING NUMBER 114894404 ×45° ELEVATION BEAM-WIDTH SEE NOTE 1 -SEE NOTE 2 DISTANCE "X" (SEE TABLE 1) E.P. E.S. E.P. DETECTION ZONE TYPICAL MICROWAVE DETECTOR INSTALLATION CROSS SECTION VIEW

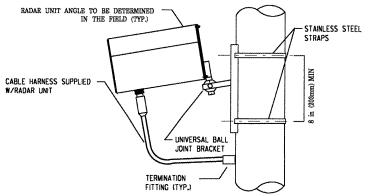


MICROWAVE DETECTOR POLE MOUNTING DETAIL

CONDUIT AS SHOWN ON THE PLANS

NONINTRUSIVE DETECTOR POLE FOUNDATION DETAIL)

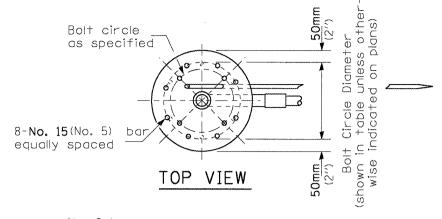
SEE MICROWAVE DETECTOR INSTALLATION DETAILS TABLE FOR POLE OFFSET AND MOUNTING HEIGHT

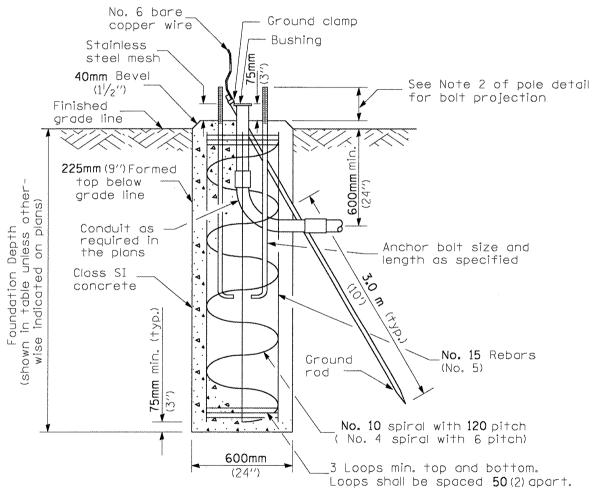


MOUNTED TO VERTICAL POLE

MICROWAVE DETECTOR MOUNTING DETAILS

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68069 - I-474 Shade Lohmann Bridge CCT	Surveillance - Final 2-7-11.dgn	DRAWN	REVISED	STATE OF ILLINOIS		474 [(72,90)5B]I-2 PEOF [A/TAZEWELL 129 [00]
	PLOT SCALE = 100,000 ' / IN.	CHECKED	REVISED -	DEPARTMENT OF TRANSPORTATION	MICROWAVE DETECTOR INSTALLATION AND POLE DETAILS	CONTRACT NO. 68069
	PLOT DATE = 2/7/2011	DATE -	REVISED -		SCALE: ITS SHEET NO. 15 OF 16 SHEETS STA TO STA	ILLINOIS FED. AID PROJECT



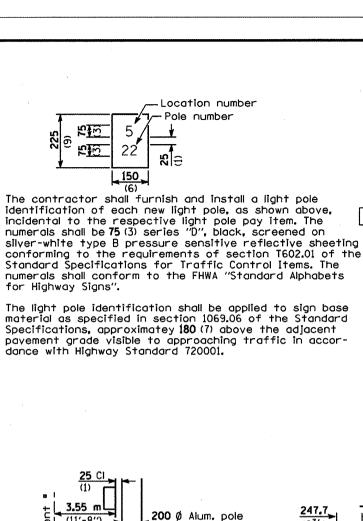


Pole Height	Bolt Circle Diameter	Foundation depth
9.1m (30′)	380 mm (15.0′′)	1.5m (5'-0'')

Notes:

- 1. The Engineer shall determine the class of soil during excavation. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 100 kPa (1.0 tsf). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
- 2. The anchor bolts and raceways shall be properly secured in place.
- 3. Concrete shall be class "SI" Concrete and the foundation must be cured for ten (10) days before the pole is erected.
- 4. The cable trench shall be backfilled and firmly compacted before the pole is erected.
- 5. For sloping grades, the foundation design depth shall be increased by the corresponding cross slope shaft depth increase factor given by:
 - A. Cohesive soil cross slope shaft increase factor 0.009 x (slope angle) + 1.0
 - B. Granular soil cross slope shaft increase factor 0.00005 x (slope angle) + 1.0
- 6. Install grounding system in accordance with Section 807 of the IDOT Standard Specifications.

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60 A

686

(27)

3.88 m

(12'-9")

BENT *

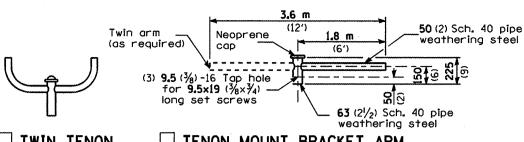
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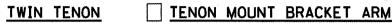
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(1)1 20 Chamfer

(3/4)





3,68 m

(12'-1")

Surge protectors

Pole

ground

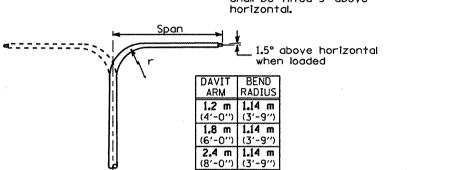
(metal oxide-

varistor type)

C Pole__

SECTION A-A

NOTE: Single or twin arm assembly shall be tilted 3° above horizontal.



3.6 m 1.14 m 1 Luminaire DAVIT ARM (12'-0") (3'-9") (2) Wood pole, class 3 or better

292.1 (11/2) Ø Bolt circle

4 bolts @ 216 (81/8) cts.

cable to each

quick disconnect

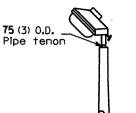
unless single

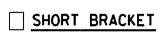
pole type is

specified

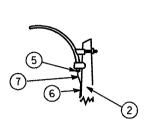
luminaire

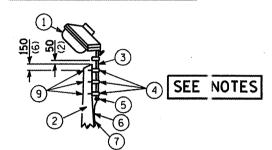
- (3) 63 $(2^{1}/2)$ Galv. steel conduit
- (4) Single offset pole band
- (5) Conduit bushing
- (6) Cable clamps on 600 (24) centers
- (7) 2/c #12 Type use cable
- (8) 25 (1) Galy. steel conduit 3.0 m (10') in length





SHORT BRACKET - TWIN TENON





MAST ARM

X TENON

- 16 $(\frac{5}{8})$ \emptyset hot dipped galvanized bolt with flat washer & locknut (3 req'd)
- Conduit clamps on 900 (36) centers
- Unit duct
- Threaded reducer
- "C" Condulet, threaded
- 40 (11/2) Galv. steel conduit for 1 unit duct or 75 (3) galv. steel conduit for 2 or 3 unit ducts.

GROUND

3.6 m

(12')

3.0 m

(101)

2.7 m (9')

2.4 m

(8')

2.1 m

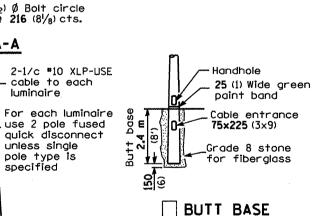
(7')

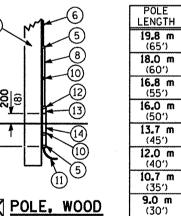
2.0 m

(6.51)

1.8 m

(6')





M POLE. WOOD

1.7 m (5.5') All dimensions are in millimeters (inches) unless otherwise shown.

NOTES:

- 1.) LUMINAIRES SHALL HAVE A 2-POLE IN-LINE WEATHERPROOF OUICK DISCONNECT FUSE HOLDER.
- 2.) CONNECT LUMINAIRE EQUIPMENT GROUND TO ACSR MESSENGER.
- 3.) THE COST OF INSTALLING THE TENON MOUNT AND ALL ASSOCIATED ITEMS SHOWN IN THE DETAIL ABOVE SHALL BE INCLUDED IN THE COST OF LIGHT POLE, WOOD, 60 FT, CLASS 3.

TRANSFORMER BASE BREAKAWAY COUPLING **ANCHOR** FRANGIBLE METAL CONCRETE Details for underground distribution if required

Ventilating

screen.

steel

stainless

DAVIT ARM-TWIN

(93/4)

317.5

784

(32)

Galy steel

couplings

BRIDGE PIER MOUNT

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(93/4)

€ Exist.

See pole

sheet for

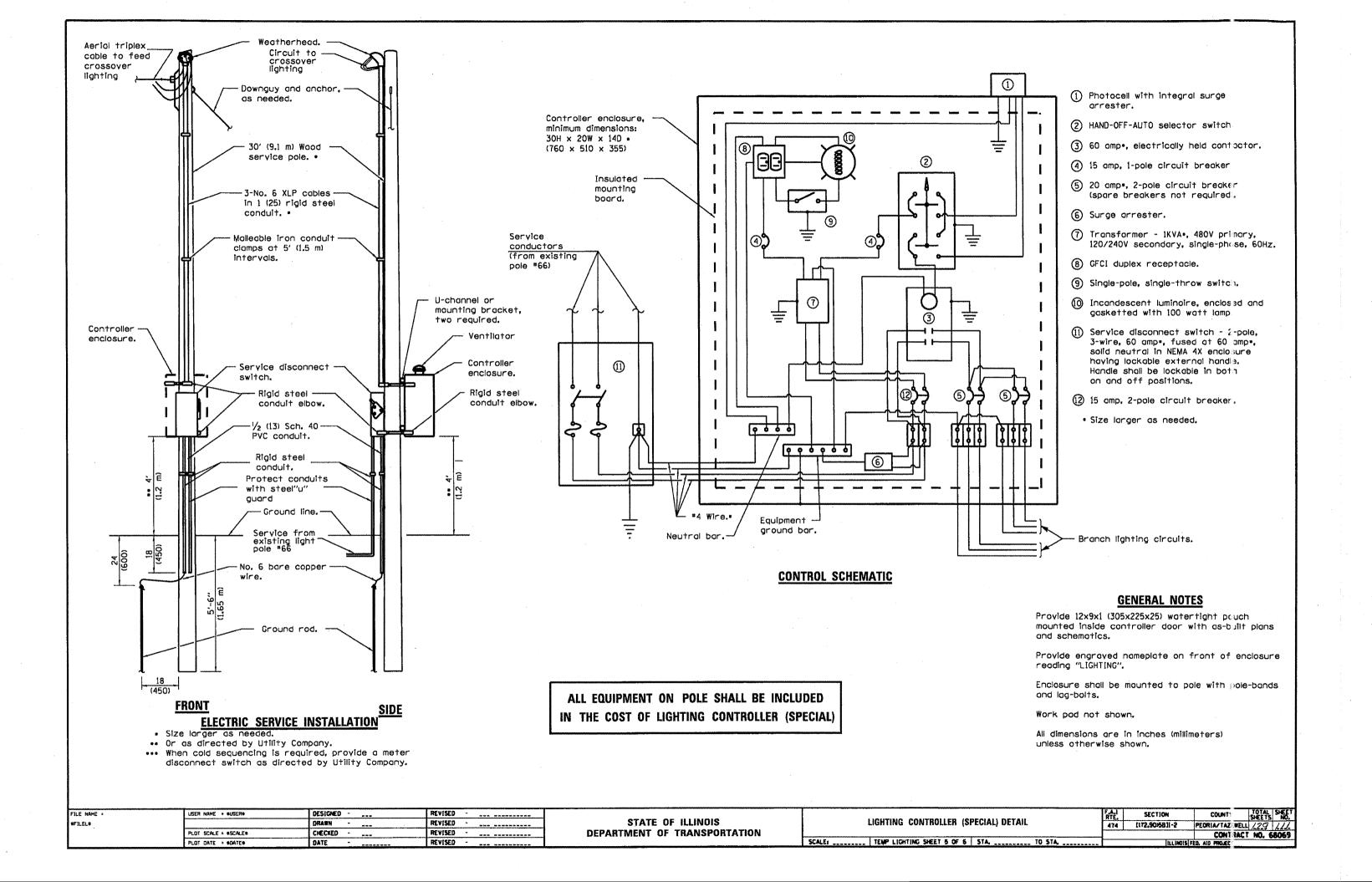
details

foundation

STATEMENT S SHEET 6 OF 6 STA. TO STA.

SECTION COUNTY 474 [(72,90)58][-2

State of Illinois	THE TOTAL PROPERTY LA
Department of transportation	
	SCALES TEMP LIGHTING S



TEMPORARY LIGHTING UNIT, 60 FT. WOOD POLE, CLASS 3 WITH 400W HPS MULTIMOUNT LUMINAIRE

AERIAL CABLE, 2-1/C NO. 1/O, ALUMINUM WITH MESSENGER WIRE

ELECTRIC CABLE IN TRENCH, 600V (TRIPLEXED), 2-1/C NO. 4/O AND 1-1/C NO. 2/O GROUND

EXISTING LIGHTING UNIT

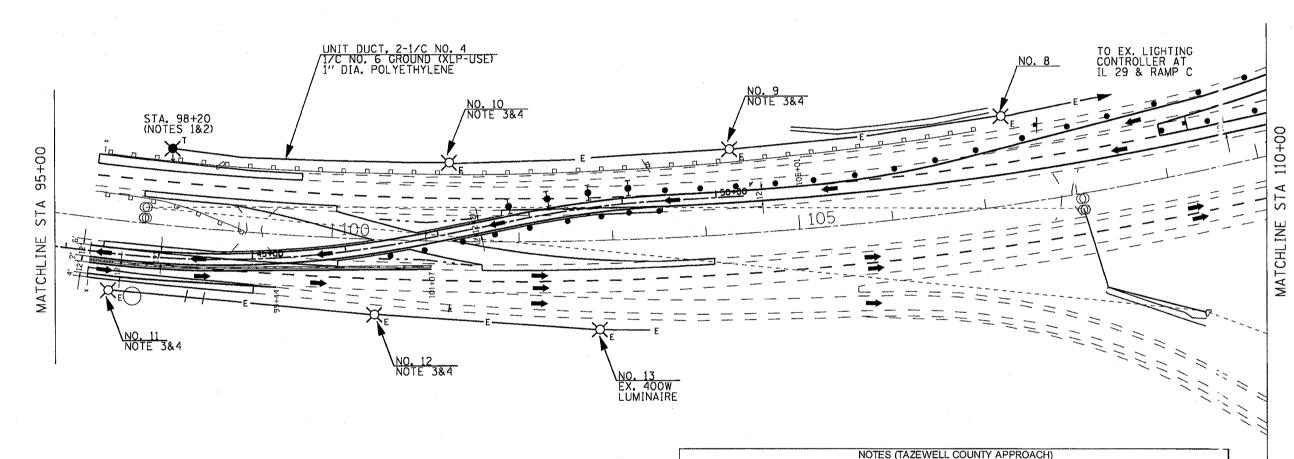
EXISTING UNIT DUCT

BRIDGE

SHADE-LOHMANN

TEMPORARY WOOD POLE, 30 FT., CLASS 5

LIGHTING CONTROLLER (SPECIAL)



SCHEDULE OF QUANTITIES - TEMPORARY LIGHTING (TAZEWELL COUNTY APPROACH) TOTAL UNIT ITEM DESCRIPTION QTY. FOOT UNIT DUCT,600V,2-1C NO.4,1/C NO.6 GROUND,(XLP-TYPE USE), 1" DIA POLY 360.0 TRENCH AND BACKFILL FOR ELECTRICAL WORK FOOT 360.0 LUMINAIRE, SODIUM VAPOR, MULTI-MOUNT, 250 WATT EACH 4.0 EACH 5.0 LUMINAIRE, SODIUM VAPOR, MULTI-MOUNT, 400 WATT EACH 1.0 LIGHT POLE, WOOD, 60 FOOT, CLASS 3 REMOVAL OF TEMPORARY LIGHTING UNIT EACH 1.0

FILE NAME :	USER NAME = howelder	DESIGNED -	REVISED -	·	TEM
Stage : sheets East & Westlagh		DRAWN -	REVISED -	STATE OF ILLINOIS	STAGES 1 AND
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	PLOT DATE = 2/11/2011	DATE -	REVISED -		SCALE: TEMP LIGHTIN

TEMPORARY LIGHTING PLAN	RTE. SEC	TION	COUNTY	TOTAL SHEE SHEETS NO.	T
STAGES 1 AND 2 (TAZEWELL COUNTY APPROACH)	474 (172, 9	015B11-2 PE	EORIA-TAZEWELL	129 112	2
, and the second			CONTRACT	NO. 68069	J
TEMP LIGHTING SHEET 4 OF 6 STA. TO STA.		ILLINOIS FED.	AID PROJEST		

TEMPORARY WOOD POLES SHALL BE SIZED TALLER AS NEEDED TO MAINTAIN REQUIRED GROUND

TEMPORARY WOOD POLES SHALL BE SET BACK A MINIMUM OF 30 FT. FROM THE EXISTING EDGE OF

MULTI-MOUNT LUMINAIRE. THE CONTRACTOR SHALL DELIVER THE EXISTING LUMINAIRES TO THE IDOT

MAINTENANCE YARD LOCATED AT 6500 W. ROUTE 150, EDWARDS, IL. THE CONTRACTOR SHALL CONTACT

NEW 250 WATT LUMINAIRE. THE CONTRACTOR SHALL DELIVER THE 400 WATT LUMINAIRES TO THE IDOT

MAINTENANCE YARD LOCATED AT 6500 W. ROUTE 150, EDWARDS, IL. THE CONTRACTOR SHALL CONTACT

PAUL GRANT AT (309) 671-4474 FORTY EIGHT HOURS PRIOR TO DELIVERY. THIS WORK SHALL BE INCLUDED IN

PAUL GRANT AT (309) 671-4474 FORTY EIGHT HOURS PRIOR TO DELIVERY. THIS WORK SHALL BE INCLUDED

CLEARANCE OF AERIAL CABLES AND 50 FT, LUMINAIRE MOUNTING HEIGHT.

THE PAY ITEM FOR LUMINAIRE, SODIUM VAPOR, MULTI-MOUNT, 400 WATT.

THE PAY ITEM FOR LUMINAIRE, SODIUM VAPOR, MULTI-MOUNT, 250 WATT.

PAVEMENT OR 4 FEET BEHIND GUARD RAIL OR TEMPORARY BARRIER.

LEGEND

TEMPORARY LIGHTING UNIT, 60 FT, WOOD POLE, CLASS 3 WITH 400W HPS MULTIMOUNT LUMINAIRE (ARROW INDICATES LUMINAIRE AIMING DIRECTION)

AERIAL CABLE, 2-1/C NO. 1/O, ALUMINUM WITH MESSENGER WIRE

ELECTRIC CABLE IN TRENCH, 600V (TRIPLEXED), 2-1/C NO. 4/O AND 1-1/C NO. 2/O GROUND

EXISTING LIGHTING UNIT

EXISTING UNIT DUCT

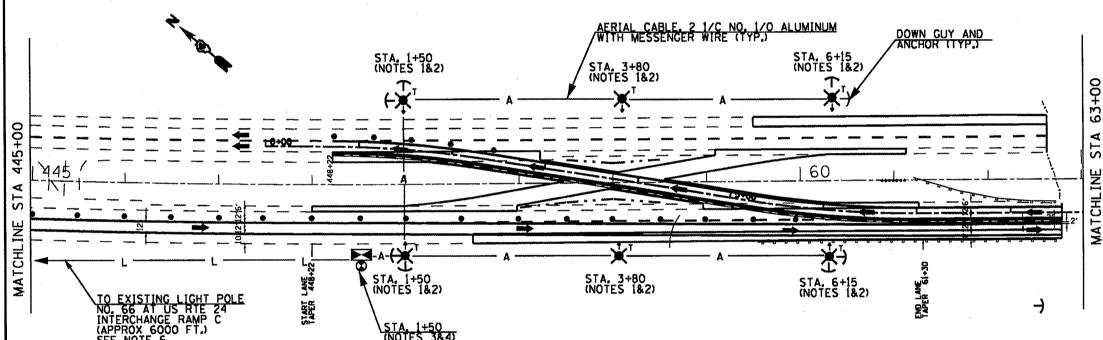
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(

TEMPORARY WOOD POLE, 30 FT., CLASS 5

LIGHTING CONTROLLER (SPECIAL)

SCHEDULE OF QUANTITIES - TEMPORARY LIGHTING (PEORIA COUNTY APPROACH)							
ITEM DESCRIPTION	UNIT	TOTAL QTY.					
AERIAL CABLE, 2-1/C NO. 1/0 WITH MESSENGER WIRE	FOOT	1300.0					
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	6000.0					
LUMINAIRE, SODIUM VAPOR, MULTI-MOUNT, 400 WATT	EACH	6.0					
LIGHT POLE, WOOD, 60 FOOT, CLASS 3	EACH	6.0					
REMOVAL OF TEMPORARY LIGHTING UNIT	EACH	6.0					
LIGHTING CONTROLLER, SPECIAL	EACH	1.0					
ELECTRIC CABLE IN TRENCH, 600V, 2-1/C NO. 4/0 AND 1/C NO. 2/0 GROUND	FOOT	6000.0					
LIGHT POLE, WOOD, 30 FOOT, CLASS 5	EACH	1.0					



ILLINOIS DEPARTMENT OF TRANSPORTATION LUMINAIRE PERFORMANCE TABLE - TEMPORARY LIGHTING **GIVEN CONDITIONS** ROADWAY DATA: **Pavement Width** Number Of Lanes Median Width **IES Surface Classificatio** Q-Zero Value LIGHT POLE DATA: Mounting Height Mast Arm Langt Pole Set-Back From Edge Of Paveme LUMINAIRE DATA: Lamp Type Lamp Lumens IES Vertical Distribution IES Control Of Distribution IES Lateral Distribution 0.684 **Total Light Loss Factor** LAYOUT DATA: Spacing Configuration Luminaire Overhang Over Edge ______FT Of Pavement Lane NOTE: Variations from the above specified IES distribution pattern may be requested and acceptance of variations will be subject to review by the

Engineer based on how well the performance requirements are mat.

PERFORMANCE REQUIREMENTS

NOTE: These performance requirements shall be the minimum a aceptable standards of photometric performance for the luminaire, based on the

LLUMINATION Average Horizontal Illumination, (EAve) Uniformity Ratio, (EAVE/EMIN) LUMINANCE: Average Luminance: (Lave) Uniformity Ratios: (LAve/LMin Maximum Veiling Luminance Ratio:

TEMPORARY LIGHTING GENERAL NOTES

- CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ELECTRICAL WORK WITH OTHER TRADES.
- CONTRACTOR SHALL INSTALL LIGHT POLES AT THE LOCATIONS INDICATED ON THE PLANS, MAINTAINING ADEQUATE CLEARANCE FROM OVERHEAD UTILITY LINES. CONTRACTOR SHALL BE RESPONSIBLE TO VERIF CLEARANCES PER THE NATIONAL ELECTRICAL SAFETY CODE AND THE REQUIREMENTS OF THE UTILITY COMPANIES. THE LOCATION OF BURIED AND ABOVE GROUND UTILITIES SHOWN ARE APPROXIMATE AND ARE SHOWN FOR INFORMATION ONLY. REROUTING, DISCONNECTION, RELOCATION, PROTECTION, ETC. OF ANY UTILITIES SHALL BE COORDINATED BETWEEN THE CONTRACTOR, UTILITY COMPANY, AND OWNER. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
- THE CONTRACTOR IS RESPOSIBLE FOR UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY THE COST OF THIS WORK IS TO BE INCLUDED IN THE BID PRICE FOR THE PAY ITEM "TRENCH AND BACKFILL FOR ELECTRICAL WORK"
- NO LIGHTING CIRCUIT OR PORTION THEREOF SHALL BE REMOVED FROM NIGHT TIME OPERATION WITHOUT APPROVAL OF THE ENGINEER.
- THE CONTRACTOR SHALL BE RESPOSIBLE FOR MAINTAINING THE PROPOSED LIGHTING SYSTEM UNTIL THE CROSSOVERS ARE REMOVED AND THE LIGHTING SYSTEM IS NO LONGER NEEDED. ANY MAINTENANCE OF THE EXISTING LIGHTING SYSTEM SHALL BE PAID IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

NOTES (PEORIA COUNTY APPROACH)

- TEMPORARY WOOD POLES SHALL BE SIZED TALLER AS NEEDED TO MAINTAIN REQUIRED GROUP D CLEARANCE OF AERIAL CABLES AND 50 FT. LUMINAIRE MOUNTING HEIGHT.
- TEMPORARY WOOD POLES SHALL BE SET BACK A MINIMUM OF 30 FT. FROM THE EXISTING EDGE OF PAVEMENT OR 4 FEET BEHIND GUARD RAIL OR TEMPORARY BARRIER.
- LOCATE POLE ADJACENT TO ACCESS FENCE
- THE CONTRACTOR SHALL REMOVE THE CROSSOVER LIGHTING AT THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL REMOVE THE WOOD POLES AND AERIAL CABLE ONLY. THE SERVICE POLE AND LIGHTING CONTROLLER SHALL REMAIN IN PLACE AND BECOME THE PROPERTY OF THE DEPARTMENT.
- THE 400W LUMINAIRES SHALL BE SALVAGED AND DELIVERED TO THE IDOT MAINTENANCE YARD. OCATED AT 6500 W. ROUTE 150, EDWARDS, IL IN ACCORDANCE WITH ARTICLE 842.03. THE CONTRACTOR SHALL CONTACT PAUL GRANT AT (309) 671-4474 FORTY EIGHT HOURS PRIOR TO DELIVERY. ALL OTHER TEMPORARY LIGHTING FACILITIES SHALL BE REMOVED AND DISPOSED OF OFF SITE AT THE CONTRACTOR'S EXPENSE
- THE COST TO CONNECT THE PROPOSED CABLE TO THE EXISTING LIGHTING CIRCUIT IN POLE HANDHOLE SHALL BE INCLUDED IN THE COST OF THE PROPOSED CABLE. THE CONTRACTOR SHALL UTILIZE APPROPRIATE ALUMINUM TO COPPER CABLE SPLICE AS APPROVED BY THE ENGINEER.

TO STA.

FILE NAME .	USER NAME * SUSERS	DESIGNED -	REVISED -	
FILEL		DRAWN -	REVISED -	
	PLOT SCALE * *SCALE*	CHECKED -	REVISED -	
	PLDT DATE = \$DATE\$	DATE -	REVISED -	

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

TEMPORARY LIGHTING PLAN STAGES 1 AND 2 (PEORIA COUNTY APPROACH)

TEMP LIGHTING SHEET 3 OF 6 STA.

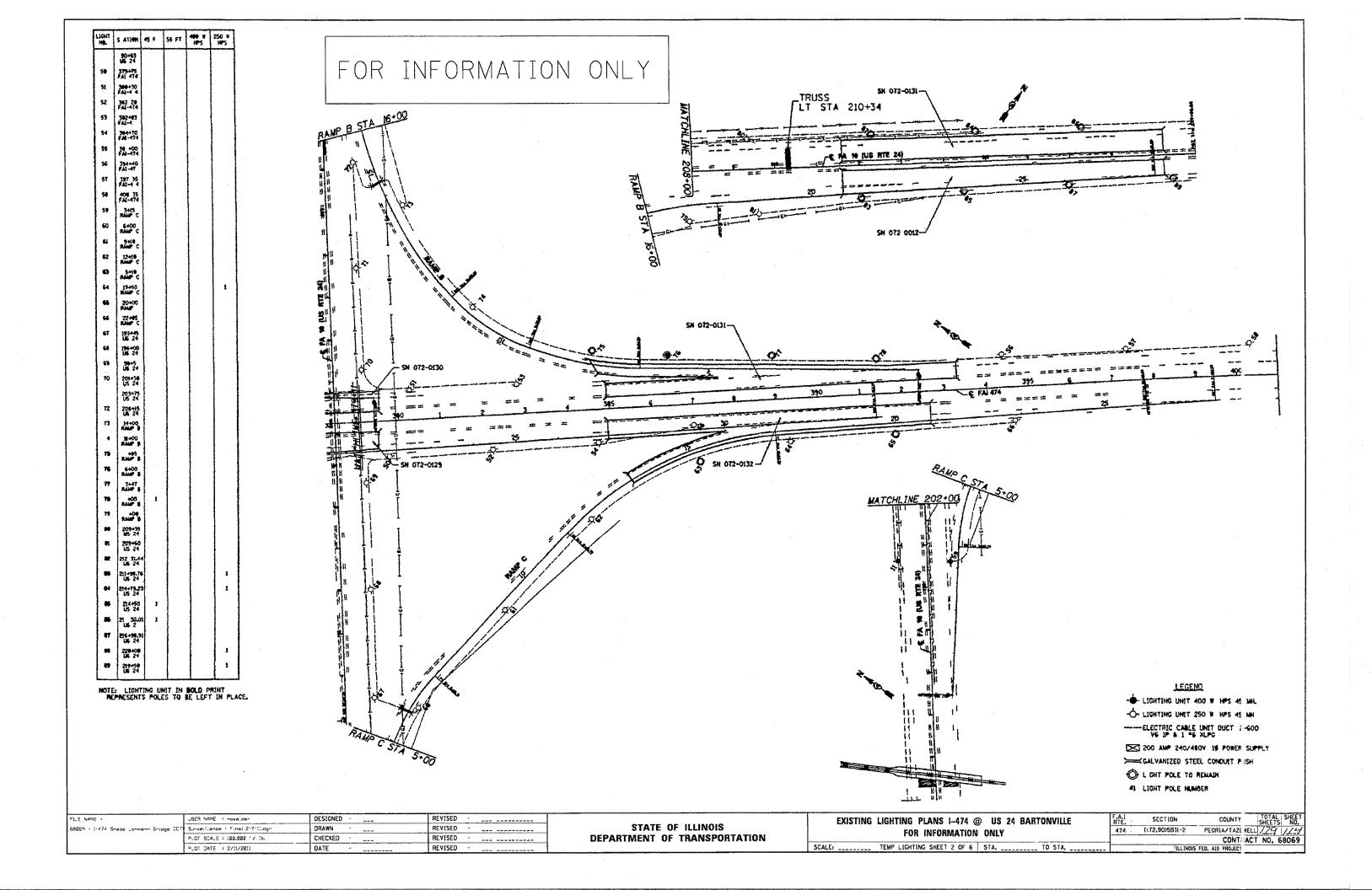
SCALE

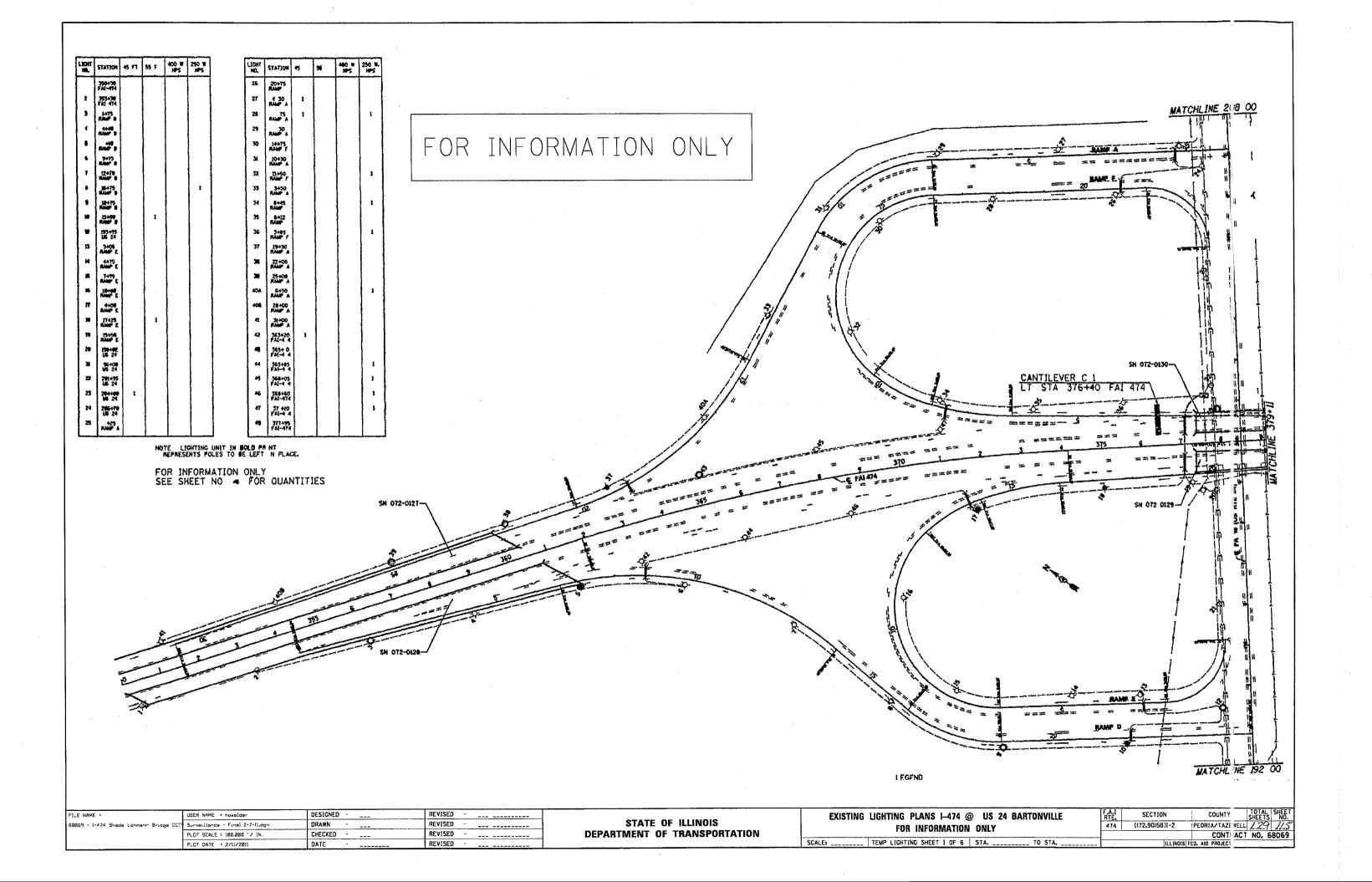
SECTION 1172, 90/5B)1-2 474

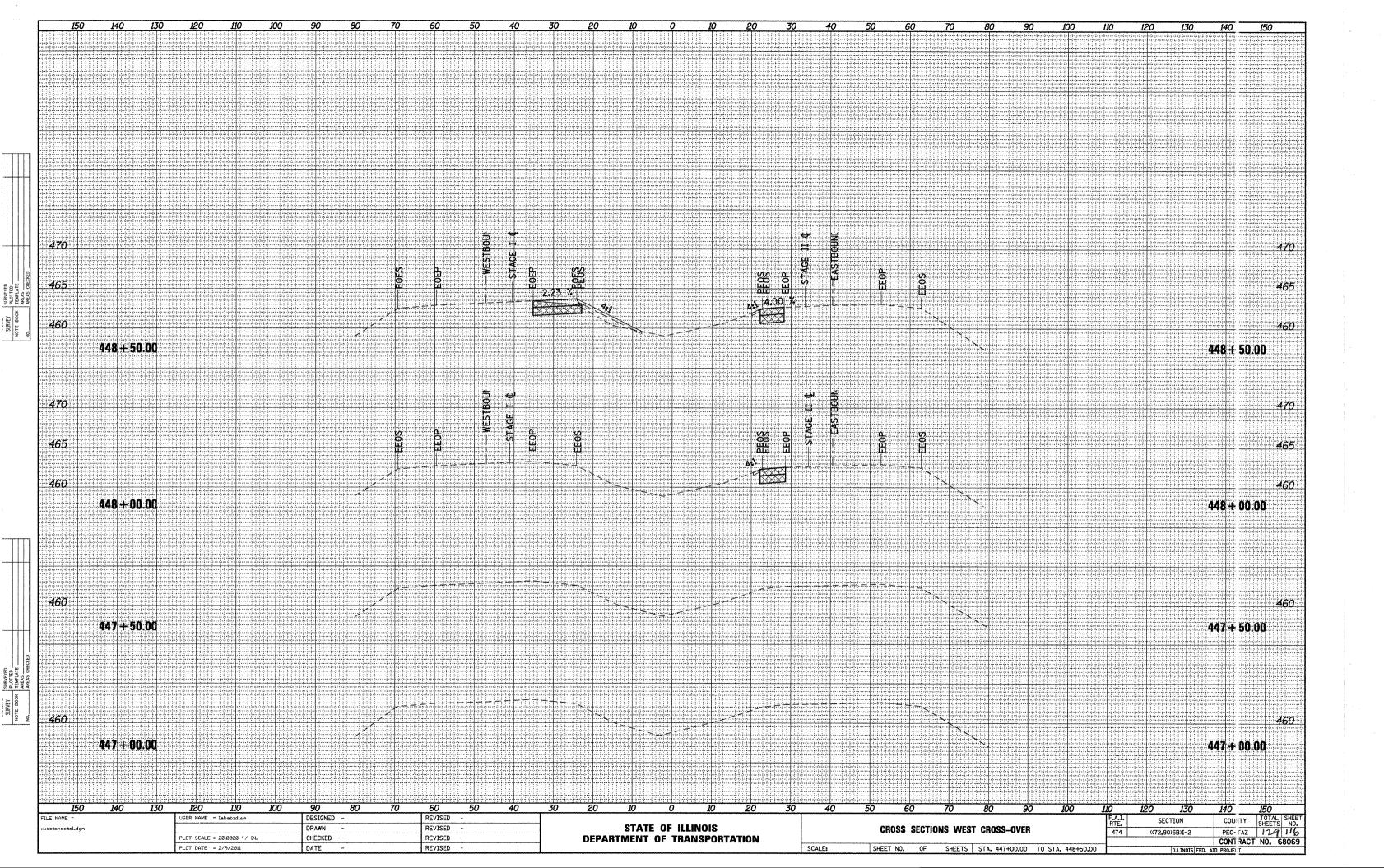
COUNTY TOTAL SHEETS NO.

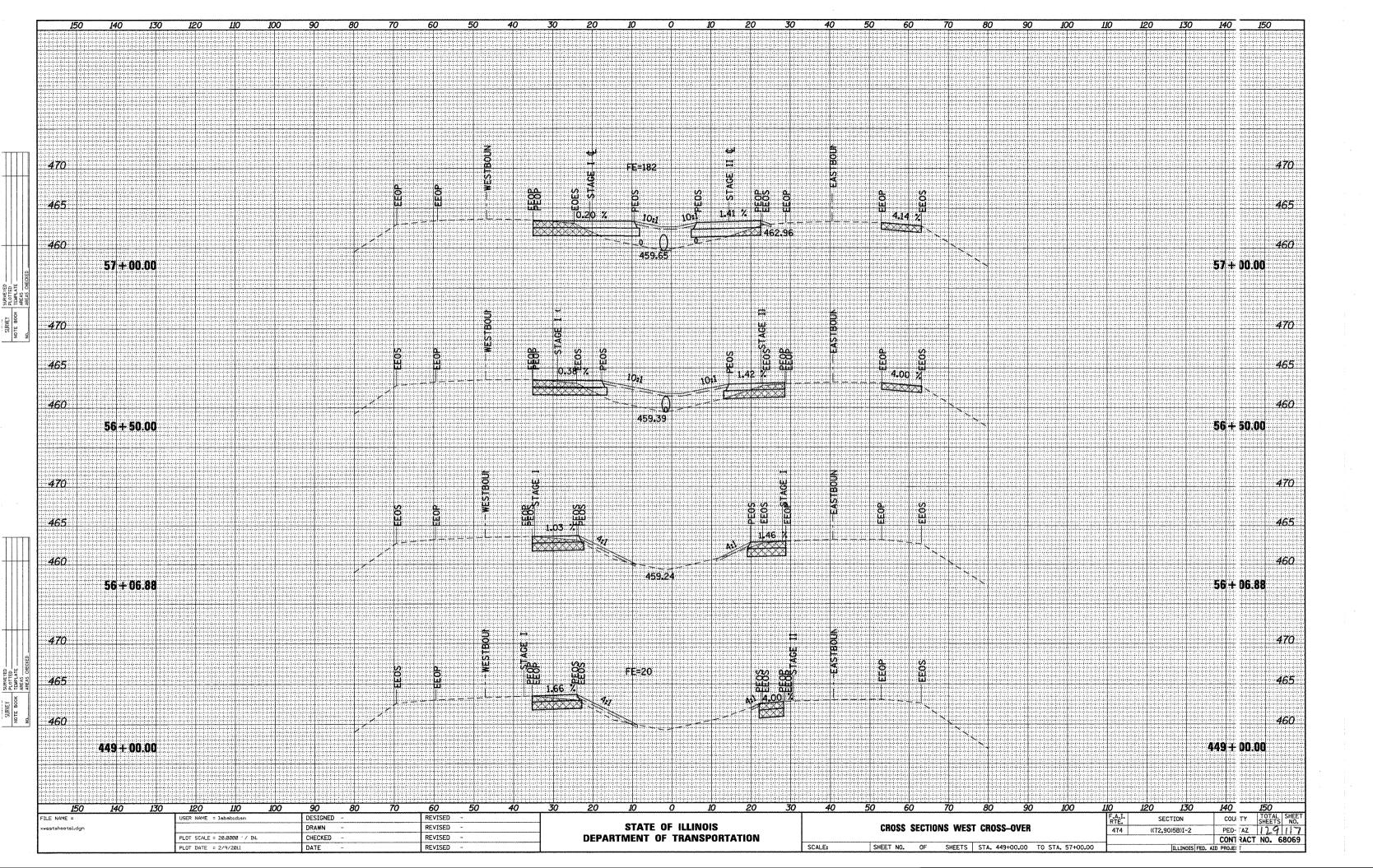
PEORIA-TA EWELL 129 11 CONTRACT NO. 68069

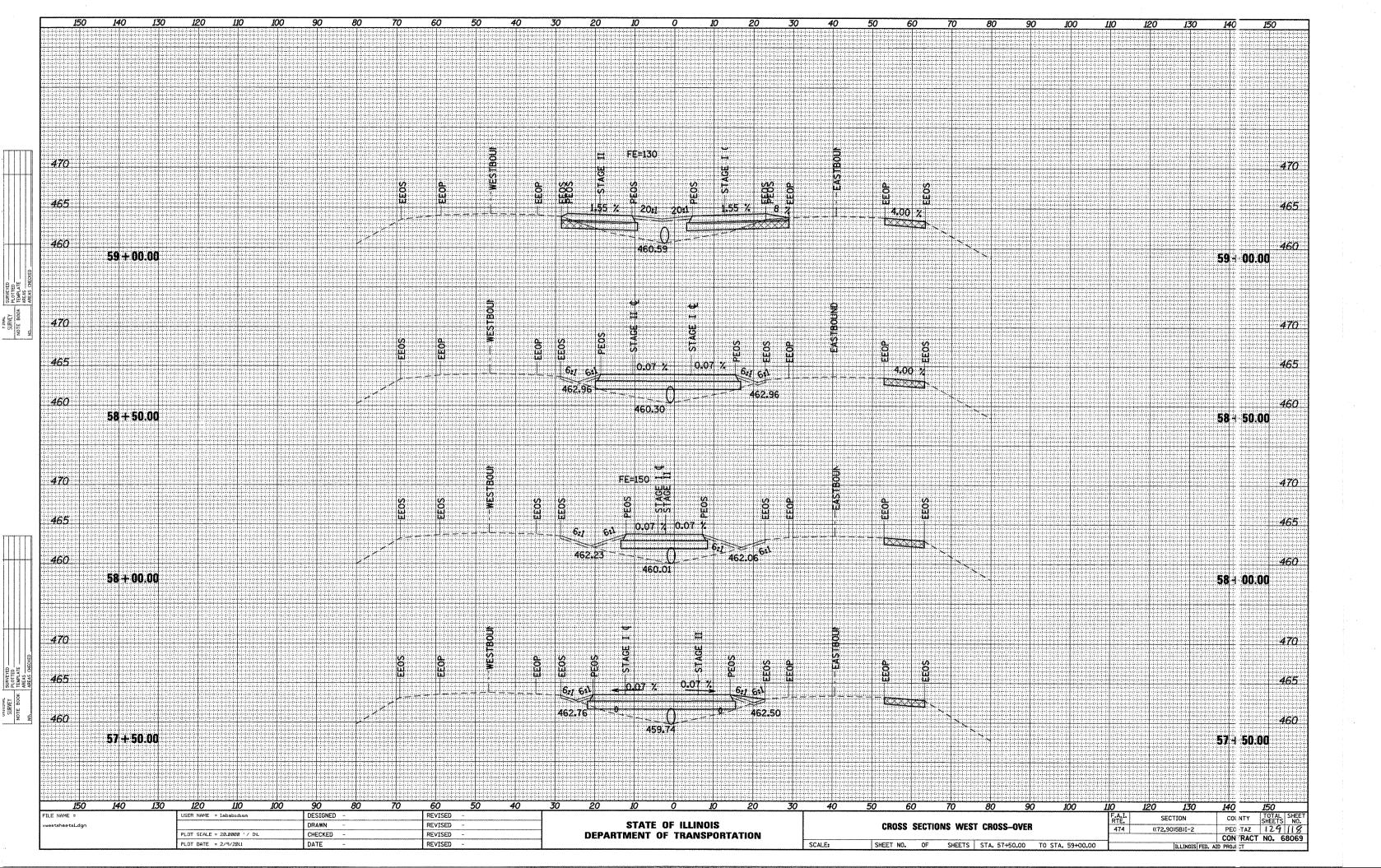
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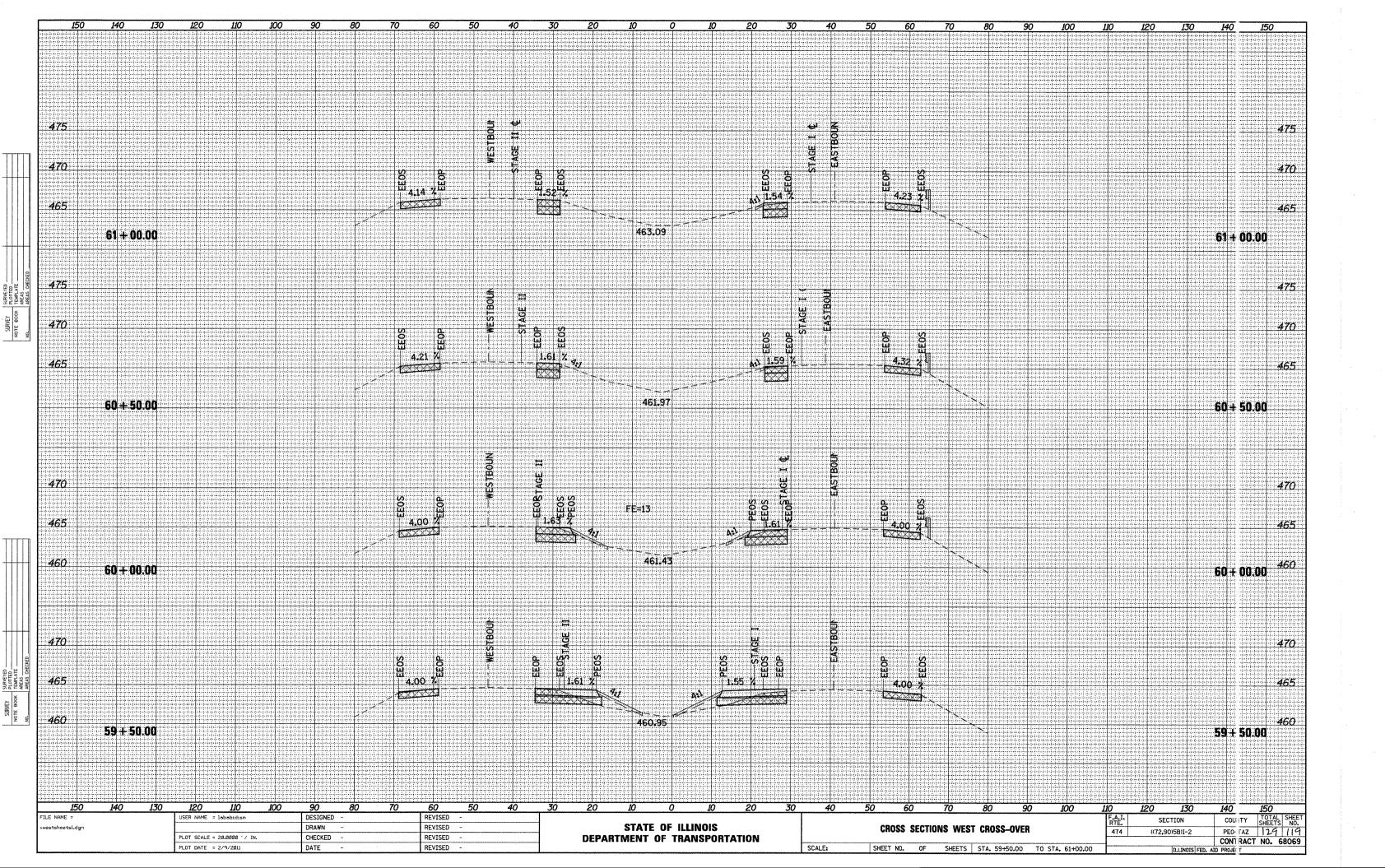


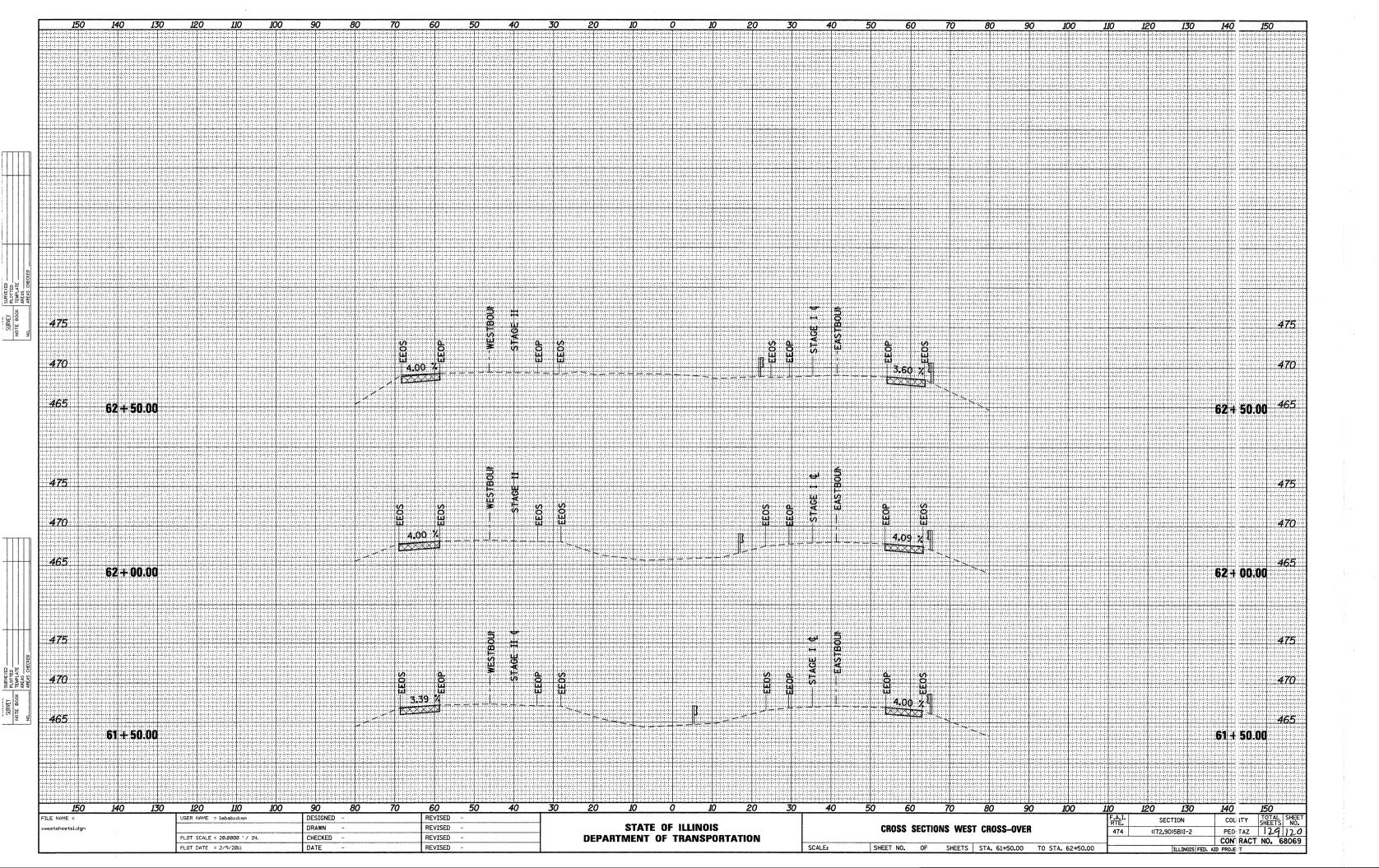


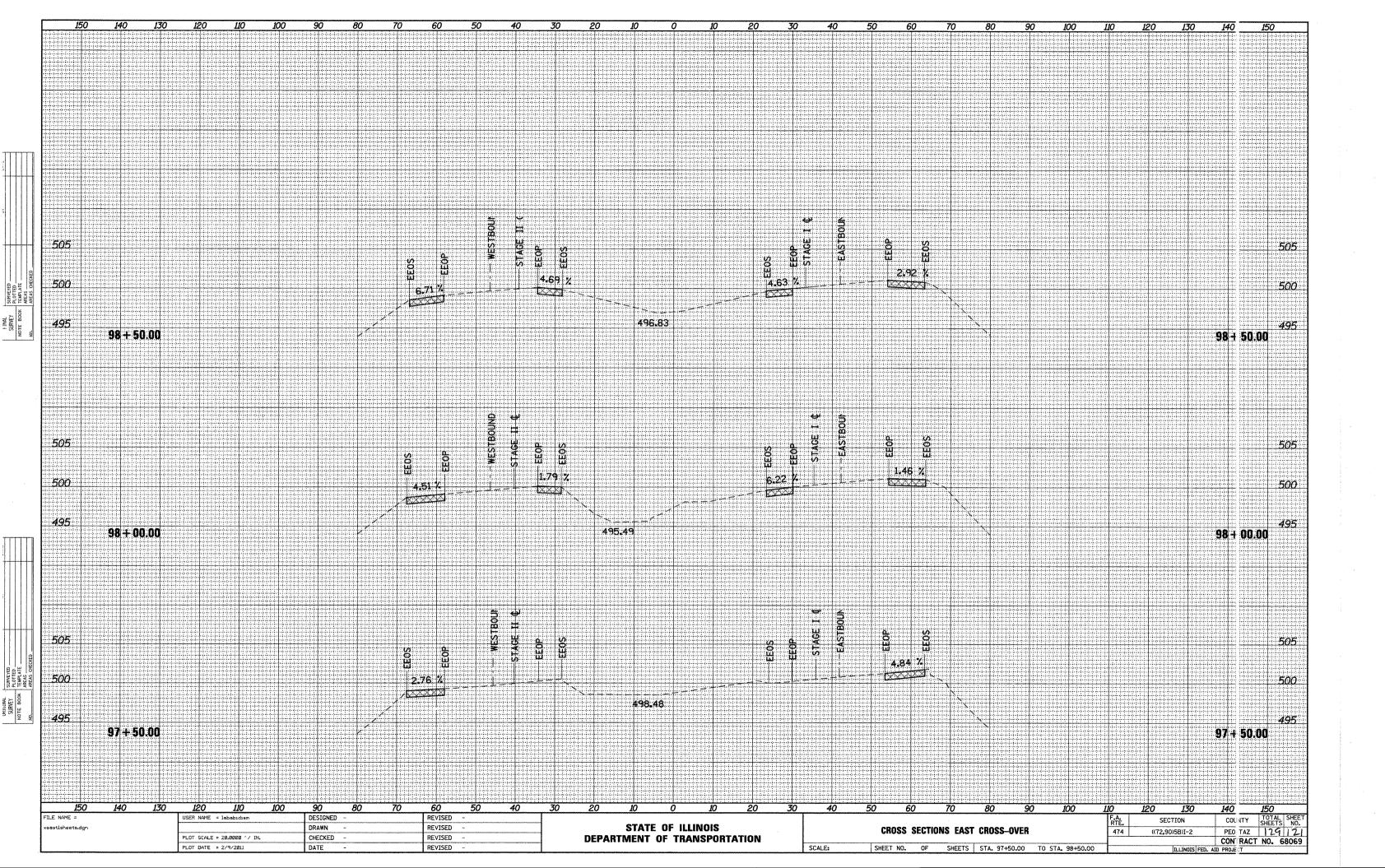


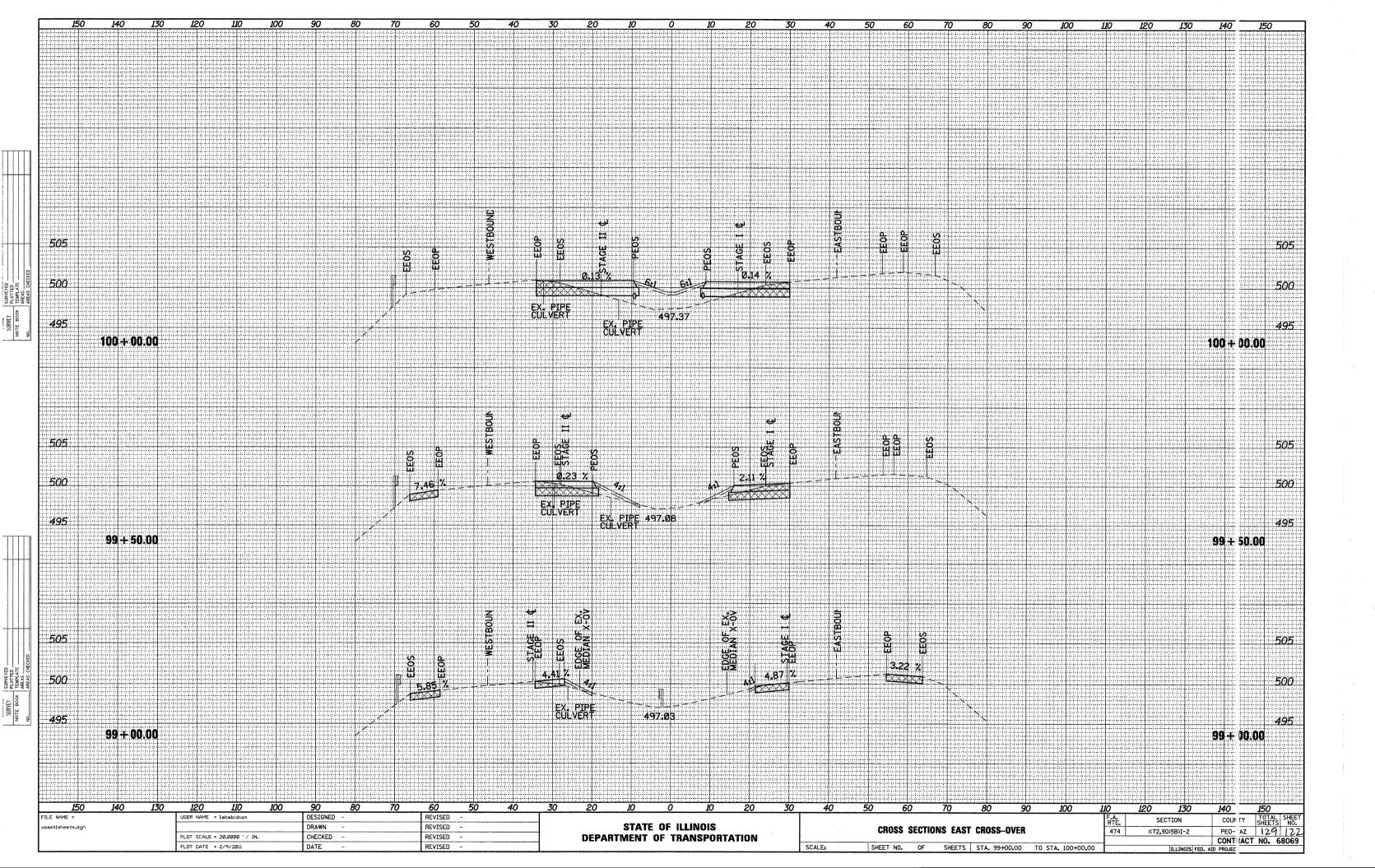


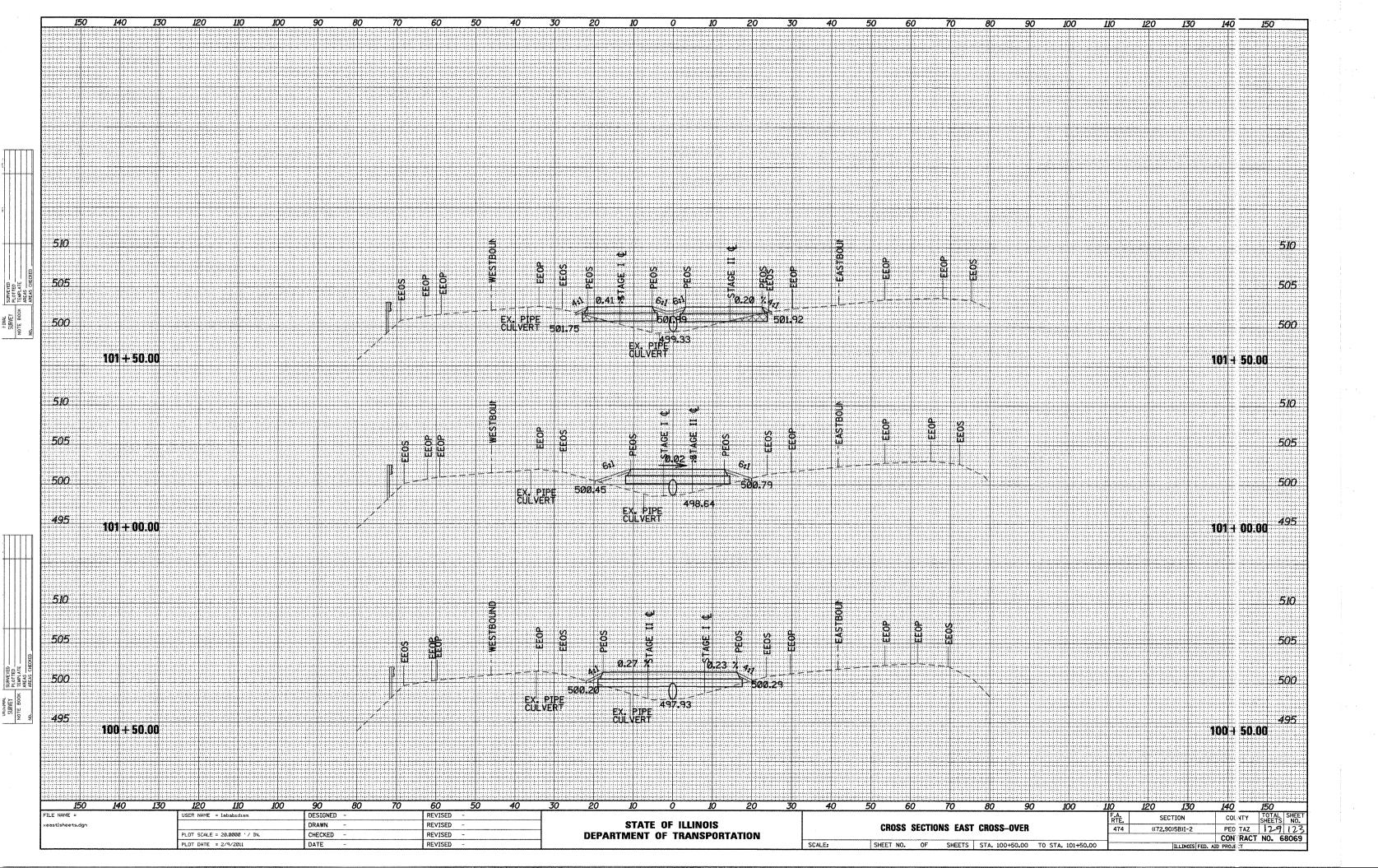


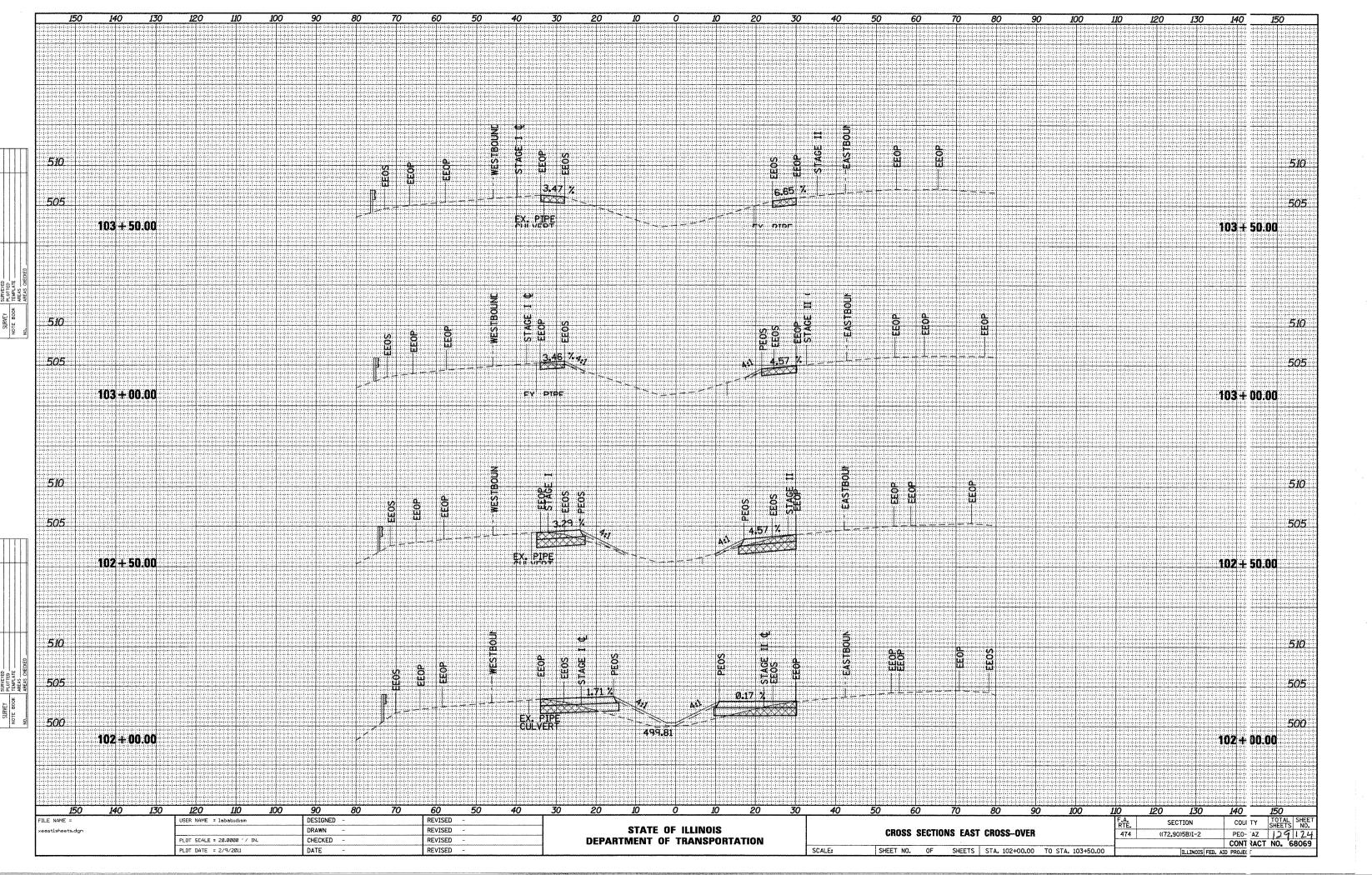


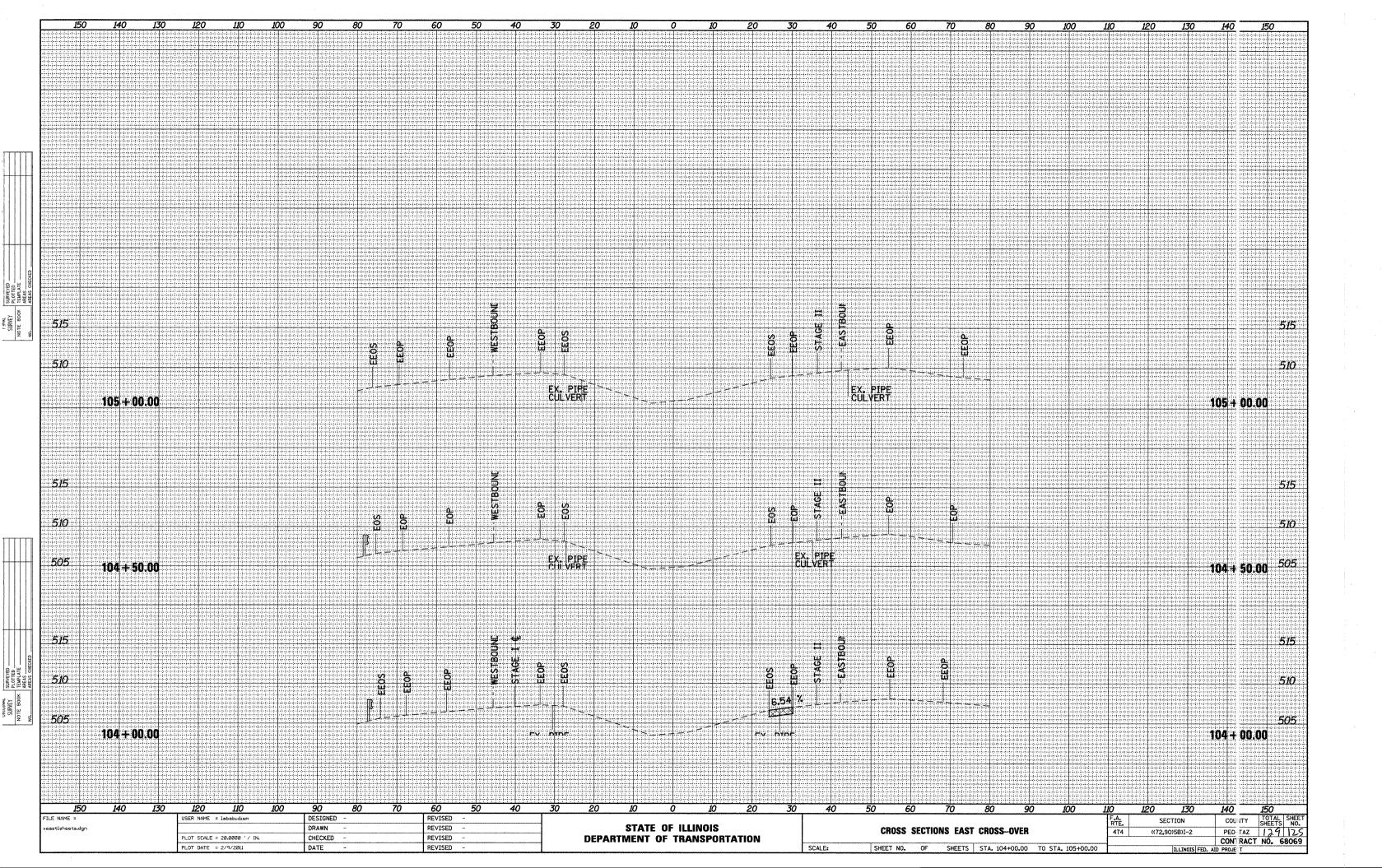








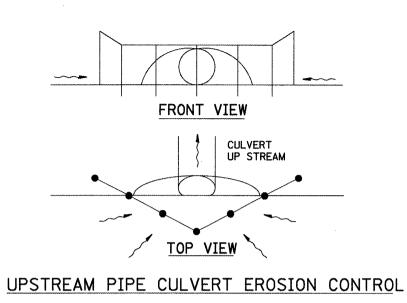


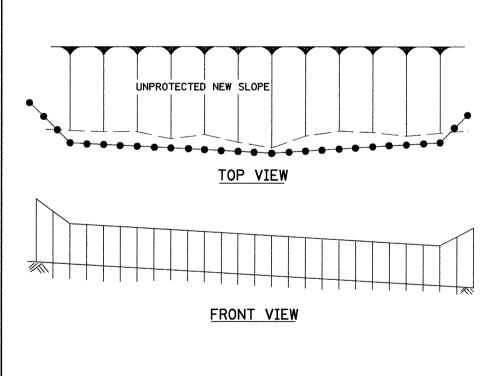




1-1-97

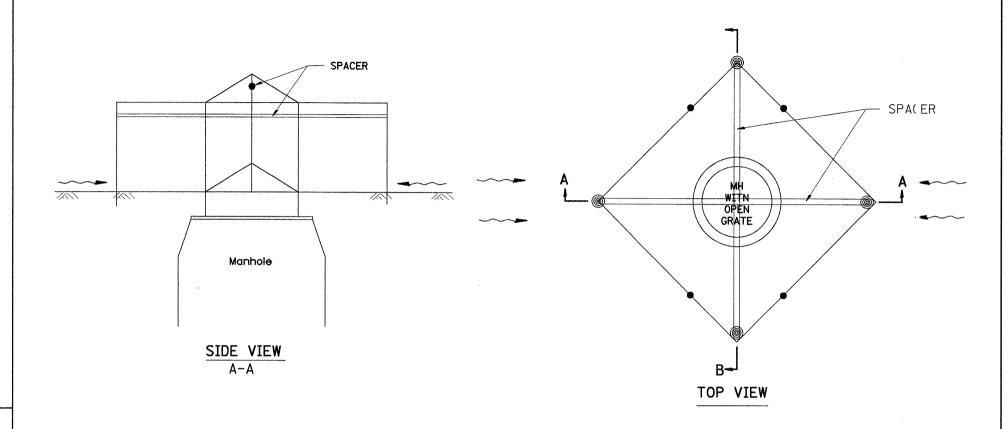
3-11-03 ELIMINATED SILT FENCE DITCH CHECK

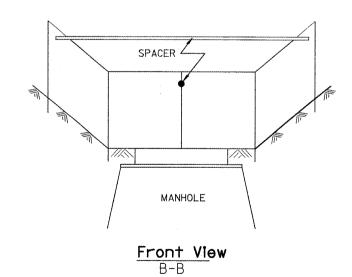




T.P.

M.A.





EROSION CONTROL AT OPEN GRATE MAN HOLE

GENERAL NOTES:

 This work shall be performed in accordance with Sections 280 & .081, of the Standard Specifications.

В

2. Additional Timber or Metal Post shall be installed, as needed.

All dimensions are in inche; (millimeters) unless otherwise noted.

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

NOT TO SCALE

TYPICAL APPLICATION OF SILT FILTER FENCE

TYPICAL APPLICATION OF SILT FILTER FENCE

CADD STD. 280001-D4

FA.I. SECTION COULTY TOTAL SHEETS

474 (172, 90)5501-2 PEO- 74Z SHEETS

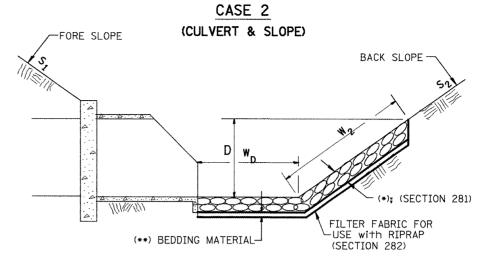
CONTRACT NO. 68

(DITCH) -FORE SLOPE BACK SLOPE -FILTER FABRIC FOR USE WITH RIPRAP _ (SECTION 282) (*): (SECTION 281) -(**) BEDDING MATERIAL

CASE 1

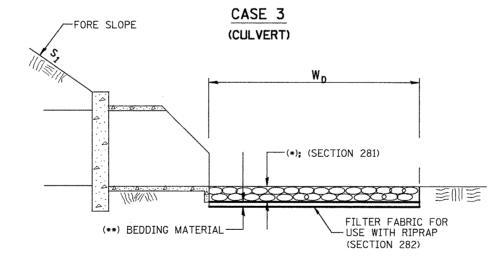
				(*)		
LOCATION		ON	WIDTH (1)	LENGTH	RIPRAP	FABRIC
STA	то	STA	lin ft (m)	lin ft (m)	tons (m tons)	sq yds (m²)
		TOTAL				

(1) WIDTH = $W_1 + W_2 + W_D$



				(*)		
L0	LOCATION		WIDTH (1)	LENGTH	RIPRAP	FABRIC
STA	то	STA	lin ft (m)	lin ft (m)	tons (m tons)	sq yds (m²)
<u> </u>	······································	TOTAL				

(1) WIDTH = $W_2 + W_D$



				(*)		-
L0	CATI	ON	WIDTH (1) LENGTH		RIPRAP	FABRIC
STA	то	STA	lin ft (m)	lin ft (m)	tons (m tons)	sq yds (m²)
	······································	······································				
		TOTAL	<u> </u>			

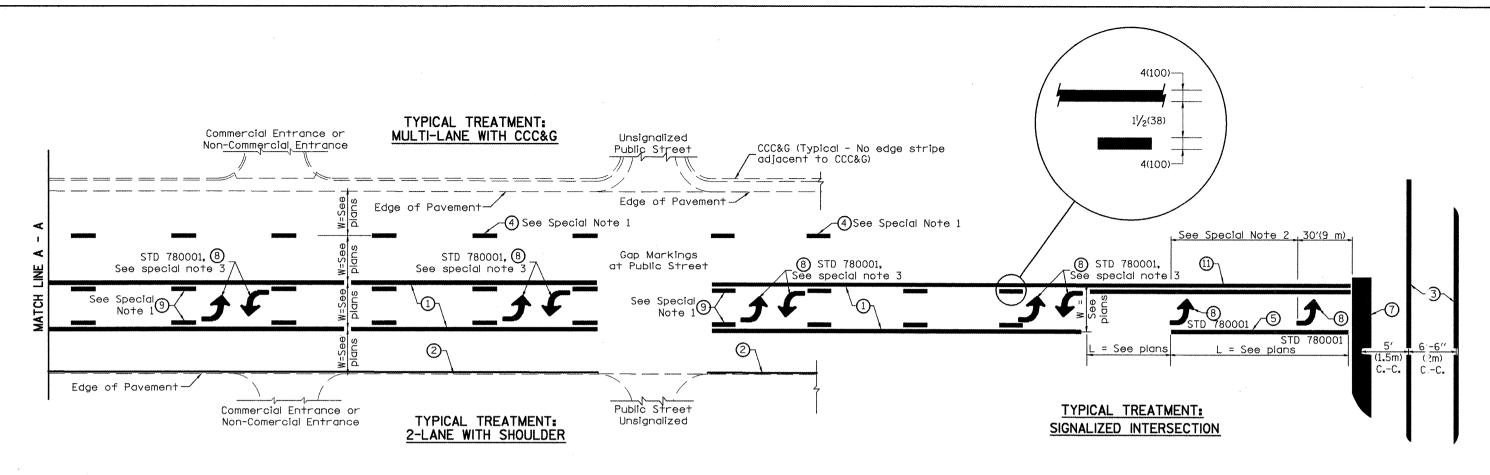
(1) WIDTH = W_D

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

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

1-1-97 RENUM. A-12.02, NEW REVISION BOX T.P.				F.A.I. SECTION COUNTY S	TOTAL SHEET
12-1-97 CORRECT FILTER FABRIC LEADER ARROW J.A.		STATE OF ILLINOIS	RIPRAP DITCH FOR EROSION PROTECTION	474 ((72 90)5B)1-2 PEO- (47	129 127
10-16-06 REVISED TO 2007 SPEC. M.A.		DEPARTMENT OF TRANSPORTATION		CONTRACT N	NO. 68069
			NOT TO SCALE CADD STD. 281001-D4	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	,10. 00003



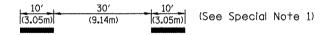


FLUSH PAVED MEDIAN: TWO-WAY LEFT TURN LANE WITH ONE-WAY LEFT TURN LANE AT SIGNALIZED INTERSECTION

TYPICAL PAVEMENT MARKING LEGEND

(Note: This is a District Standard Legend. Some elements may not apply to specific project,)

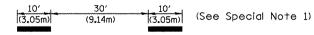
- (1) 4(100) Solid (Yellow)
- (2) 4(100) Solid (White)
- 2-6(150) Crosswalk @ 6'-6" (2m)min C.-C. (White)
 2-8(200) Crosswalk @ 6'-6" (2m)min C.-C. (White) (When traffic signals are present.)
- 4 6(150) Skip-Dash (White)



- (5) 8(200) Solid (White)
- (6) 12(300) Diagonal (White) (Item (6) is shown on Std. 780001)
- (7) 24(600) Stop Bar (White)
- 8 Letters & Arrows

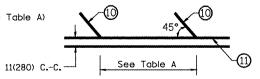
(See Std. 780001 and Special Notes 2 & 3)

9 4(100) Skip-Dash (Yellow)



(1) 12(300) Diagonal (Yellow) (See Table A)

(11) 4(100) Double Solid (Yellow)



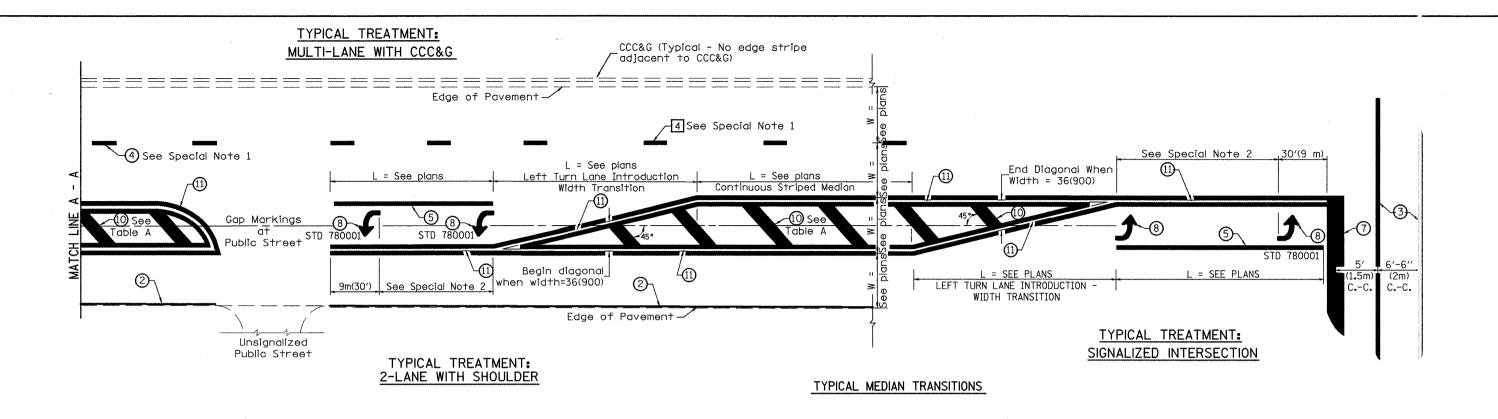
SPECIAL NOTES

- Skip-Dash markings will be centered between both ends of city blocks and shall be placed in alignment transversly across the pavement.
- 2. The following shall apply to arrows located in one-way left turn lanes:
 - A. A minimum of two (2) arrows is required.
 - 3. The maximum spacing between arrows is 80' (24 m).
 - C. Arrows shall be evenly spaced if three (3) or more are required.
- 3. The following shall apply to arrow pairs located in two-way left turn lanes:
- A. A minimum of two (2) arrow pairs is required.
- B. The maximum spacing between arrow pairs is 200′ (61 m).
- C. Arrow pairs shall be evenly spaced if three (3) or more are required.
- D. The spacing between Bi Directional Left Turn Arrows is 33' (10 m).

GENERAL NOTES

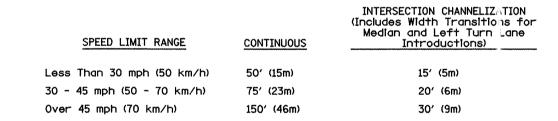
- Refer to State Standard 780001 for additional Pavement Markings including letters & arrows.
- See Plans for Pavement Markings adjacent to curbed islands and medians, and through lane reductions.

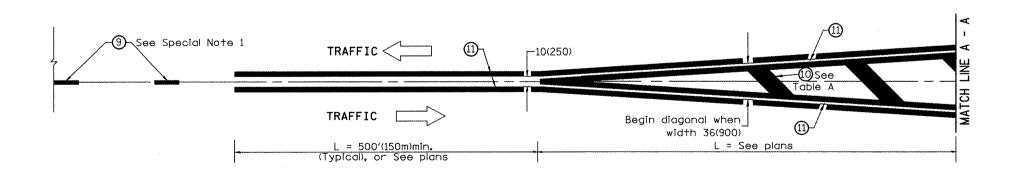
01-01-97	RENUM. F-8.03, NEW REVISION BOX	T.P.	10-16-06 REVISED TO 2007 SPEC.				F.A.I.	SECTION	COUNTY	TOTAL SHE	ĒΤ
02-07-97	ADD BI DIRECTIONAL DIMENSION	J.A.		STATE OF ILLINOIS		TYPICAL PAVEMENT MARKINGS	474 ((72, 90)5B)I-2	PEO-TAZ	129 12	8
10-97	CORRECT BI DIRECTIONAL DIMENSION	J.A.		 DEPARTMENT OF TRANSPORTATION		SHT. 1 OF 2	· · · · · · · · · · · · · · · · · · ·		CONT RACT	T NO. 6806	5
08-02	ADD CROSSWALK DMNS. WITH T.S.	M.A.			NOT TO SCALE	CADD STD. 780001-D4	FED. ROAD DIST.				



FLUSH PAVED MEDIAN: RESTRICTED LEFT TURN LANE

TABLE A RECOMMENDED SPACING BETWEEN DIAGONAL LINES





MEDIAN INTRODUCTION - WIDTH TRANSITIONS

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

	STATE OF ILLINOIS	TYPICAL PAVEMENT MARKING	is ·	F.A.I. RTE.	SECTION 2, 90)5B)I-2	COUNTY PEO-TAZ	TOTAL SHEET NO.
	DEPARTMENT OF TRANSPORTATION	NOT TO SCALE	SHT. 2 OF 2 CADD STD. 780001-D4	FED. ROAD DIST. NO		CON RACT	NO. 68069