

F.A.P. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
774	(107Z) TSL-4	EFFINGHAM	13	1
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 74133

D-97-006-06

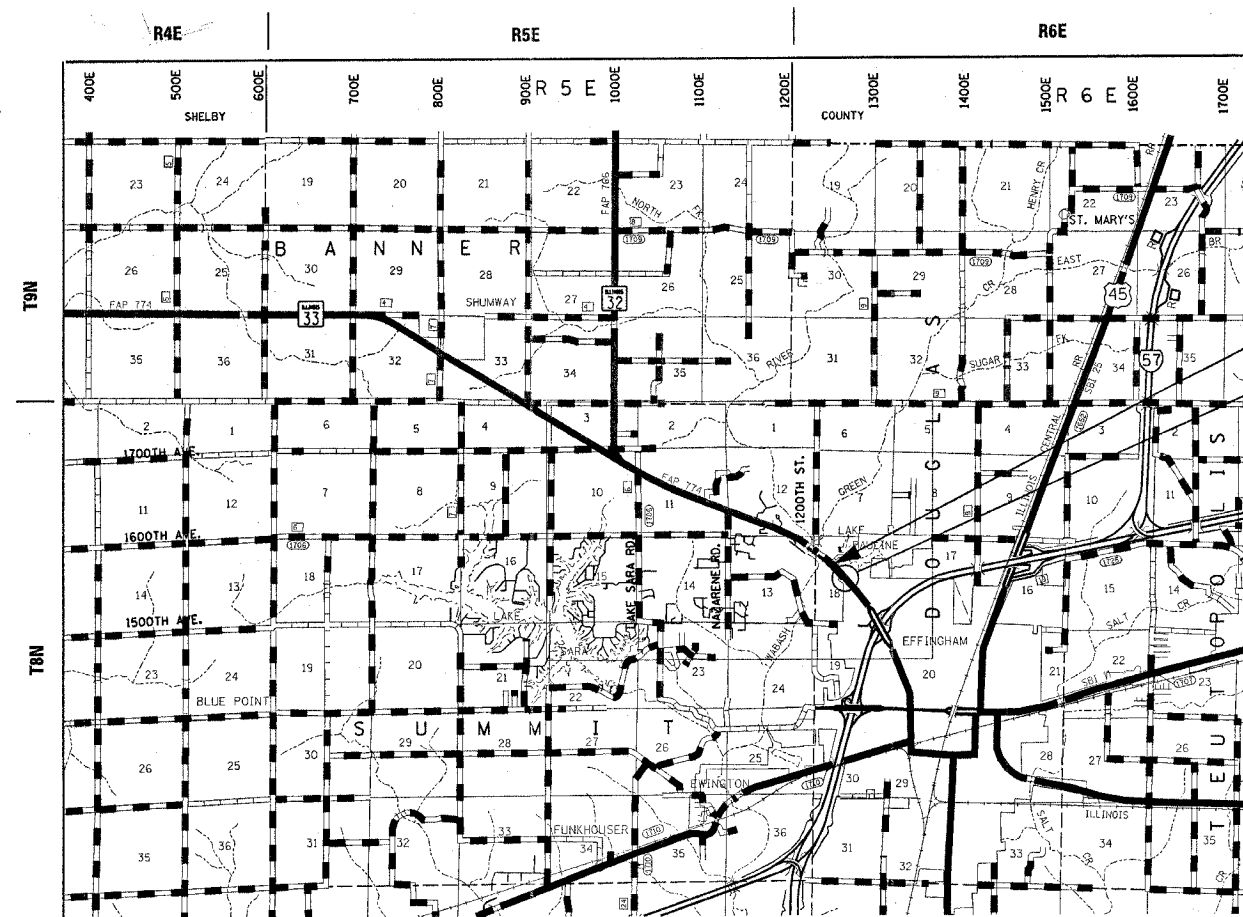
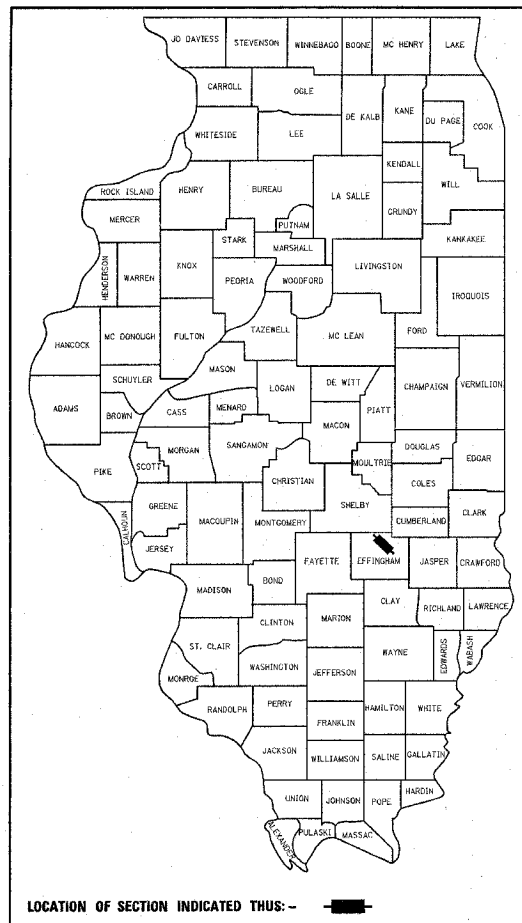
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**PLANS FOR PROPOSED
FEDERAL HIGHWAY PROJECT**

F.A.P. ROUTE 774 (ILLINOIS ROUTE 32/33)
SECTION (107Z) TSL-4
PROJECT: F-0774-(027)
EFFINGHAM COUNTY
C-97-008-06

FOR INDEX OF SHEETS, SEE SHEET NO 2

FOR GENERAL NOTES, SEE SHEET NO 2

FOR SUMMARY OF QUANTITIES, SEE SHEET NO 3



STATION EQUATION
STA. 1039 + 00.00 (BK) =
STA. 39 + 00.00 (AH)
PROPOSED PROJECT



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES, IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

FOR UNDERGROUND UTILITY LOCATIONS CALL J.U.L.I.E. TOLL FREE 1-800-892-0123 SUMMIT TOWNSHIP DOUGLAS TOWNSHIP

PROJECT ENGINEER: ROB MACKLIN
SQUAD LEADER: LYNN MCCLELLAN
TELEPHONE: 217-342-8245

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED June 29, 2006
Christ H Reed
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

20

ENGINEER OF PROJECT DEVELOPMENT AND IMPLEMENTATION
August 18, 2006
Mike Nien
ENGINEER OF DESIGN AND ENVIRONMENT

August 18, 2006
Milton R. Sear, P.E.
DIRECTOR, DIVISION OF HIGHWAYS

FWHA _____ 20 _____
DIVISION ADMINISTRATOR

**PRINTED BY AUTHORITY
OF THE STATE OF ILLINOIS**

CONTRACT NO. 74133
DOUGLAS TOWNSHIP

LOCATION MAP
GROSS AND NET LENGTH OF PROJECT = 300 FT. = 0.06 MILES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
774	(1072) TSL-4	EFFINGHAM	13	2
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 74133

GENERAL NOTES

THIS SECTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS, THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED JANUARY 1, 2002; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" ADOPTED MARCH 1, 2005; AND "THE SPECIAL PROVISIONS" INCLUDED IN THE PROPOSAL.

THIS PROJECT IS LOCATED AT THE INTERSECTION OF FAP 774 (IL 32/33) AND FORD AVENUE IN THE CITY OF EFFINGHAM, IN EFFINGHAM COUNTY. THE WORK INCLUDED IN THIS SECTION CONSISTS OF INSTALLING TRAFFIC AND HIGHWAY LIGHTING AND ALL OTHER WORK NECESSARY TO COMPLETE THIS SECTION.

LOCATIONS OF UTILITIES HAVE NOT BEEN SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING LOCATIONS OF UNDERGROUND UTILITIES WITH J.U.L.I.E. FIELD MARKINGS OF ACTIVITIES IN WORK AREAS MAY BE OBTAINED BY PROVIDING A MINIMUM OF 96 HOURS ADVANCE NOTICE THROUGH THE J.U.L.I.E. SYSTEM BY CALLING 1-800-892-0123.

- AGENCIES WITH UTILITIES WITHIN THE PROJECT LIMITS:
- ILLINOIS CONSOLIDATED TELEPHONE CO.
 - VERIZON NORTH INC.
 - AMEREN CIPS
 - NORRIS ELECTRIC COOPERATIVE
 - EJ WATER CORPORATION
 - LAKE SARA AREA WATER COOPERATIVE, INC.
 - CITY OF EFFINGHAM
 - AT&T MEDIA SERVICE

THE TRAFFIC OPERATIONS UNIT CHIEF (MIKE WORTHEY) AT THE ILLINOIS DEPARTMENT OF TRANSPORTATION SHALL BE NOTIFIED AT 217-342-8284 AT LEAST 72 HOURS PRIOR TO TURNING ON ANY FLASHER OR CONTROLLER UNIT.

THE SIZE OF THE CABLE SUPPLIED SHALL BE EQUAL TO OR GREATER THAN THE SIZE OF THE CABLE REQUIRED TO CARRY THE LOAD BETWEEN THE CONTROLLER AND THE SERVICE INSTALLATION.

THE CONTROLLER CABINET SHALL BE PLACED SO THAT A TECHNICIAN CAN SEE THE INTERSECTION OVER THE TOP OF THE CABINET WHILE WATCHING THE COMPONENTS IN THE CABINET.

THE CONTRACTOR SHALL ARRANGE FOR A FACTORY OR SUPPLIER REPRESENTATIVE TO BE PRESENT AT THE INTERSECTION WHEN THE SIGNALS ARE TURNED ON. THE REPRESENTATIVE SHALL MAKE CERTAIN THAT ALL EQUIPMENT OPERATES TO THE SATISFACTION OF THE ENGINEER.

A 2 FOOT MINIMUM, 6 FOOT DESIRABLE, HORIZONTAL CLEARANCE SHALL BE MAINTAINED FROM THE BACK OF CURB TO THE EDGE OF HANDHOLES, JUNCTION BOXES AND SIGNAL POST FOUNDATIONS. A 5 FOOT MINIMUM HORIZONTAL CLEARANCE SHALL BE MAINTAINED FROM THE BACK OF THE CURB TO ALL MAST ARM FOUNDATIONS. CONTROLLER FOUNDATIONS SHALL BE LOCATED AS FAR FROM THE BACK OF THE CURB AS POSSIBLE TO PROTECT THE CONTROLLER CABINET.

ALL HARDWARE SHALL BE TIGHTENED AND WELL SECURED. CABLES SHALL BE NEATLY WOUND IN HANDHOLES. CABLES SHALL BE NEATLY TRAINED IN THE CONTROLLER CABINET.

ALL THREADS OF BOLTS USED IN ASSEMBLY OF TRAFFIC SIGNAL COMPONENTS SHALL BE COATED WITH A NON-LEAD BASED ANTI-SEIZE COMPOUND, SIMILAR TO LEAD PLATE, PRIOR TO ASSEMBLY.

NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PLACING CONDUIT AT GREATER THAN 2 FOOT MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES.

THE CONTRACTOR IS RESPONSIBLE FOR UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY. THE COST OF THIS WORK IS TO BE INCLUDED WITH THE TRENCH AND BACKFILL FOR ELECTRICAL WORK PAY ITEM.

THE NUMBER OF CONDUCTORS FOR ELECTRIC CABLES AS SHOWN ON THE PLANS SHALL BE THE MINIMUM NUMBER OF CONDUCTORS FURNISHED FOR EACH LOCATION. THE CONTRACTOR MAY SUBSTITUTE AN ELECTRIC CABLE WITH MORE CONDUCTORS THAN SPECIFIED BUT NO ADDITIONAL COMPENSATION WILL BE MADE FOR THE EXTRA CONDUCTORS.

ALL NEW TRAFFIC AND PEDESTRIAN SIGNAL WIRING SHALL EXTEND FROM CONTROLLER TO SIGNAL. SPLICES IN HANDHOLES WILL NOT BE ALLOWED.

ALL MAST ARM MOUNTED SIGNAL HEADS ON AN INDIVIDUAL MAST ARM SHALL BE MOUNTED SO THAT THE RED INDICATIONS ARE LEVEL WITH EACH OTHER.

TRAFFIC SIGNAL HEADS SHALL BE PROPERLY COVERED PRIOR TO INTERSECTION TURN-ON OR AS DIRECTED BY THE ENGINEER. THIS COST SHALL BE INCLUDED WITH THE COST OF THE ASSOCIATED SIGNAL HEAD PAY ITEMS.

ALL TRAFFIC SIGNAL MAST ARM ASSEMBLIES (STANDARD, COMBINATION, OR DUAL) MUST BE DESIGNED FOR THE LOADINGS SHOWN ON THE HIGHWAY STANDARDS OR THESE SIGNAL PLANS, WHICHEVER IS GREATER.

ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITY WITHIN THE RIGHT-OF-WAY SHALL BE RESHAPED AND RESEED, SEEDING SHALL BE CLASS 2 IN ACCORDANCE WITH SECTION 250 OF THE STANDARD SPECIFICATIONS. THE COST OF RESHAPING AND RESEEDING SHALL BE INCLUDED IN THE UNIT PRICE OF THE VARIOUS ITEMS OF WORK AND SHALL NOT BE PAID FOR SEPARATELY.

THE CONTRACTOR WILL BE RESPONSIBLE FOR RELOCATING SIGNS OR DELIVERING EXISTING SIGNS TO THE IDOT DISTRICT 7 SIGN SHOP AS DIRECTED BY THE ENGINEER. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE OF THE VARIOUS ITEMS OF WORK AND SHALL NOT BE PAID FOR SEPARATELY.

CITY OF EFFINGHAM CONTACT:
STEVE MILLER
CITY ENGINEER
201 E JEFFERSON
EFFINGHAM, IL 62401
PHONE: (217) 342-5303

INDEX OF SHEETS

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- 2 INDEX OF SHEETS AND GENERAL NOTES
- 3 SUMMARY OF QUANTITIES
- 4 HORIZONTAL ALIGNMENT PLAN
- 5 TRAFFIC SIGNAL PLANS-SIGNAL LAYOUT
- 6 TRAFFIC SIGNAL PLANS-CABLE LAYOUT
- 7 TRAFFIC SIGNAL PLANS-BILL OF MATERIALS AND DETAILS
- 8 LIGHTING SCHEDULE
- 9-12 LIGHTING DETAILS
- 13 BORING LOGS

THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDED AFTER SHEET NO. 13:

- 000001-04 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 701001-01 OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
- 701006-02 OFF-RD OPERATIONS, 2L, 2W, 15' TO 2' FROM EDGE OF PAVEMENT
- 701101-01 OFF-RD OPERATIONS, MULTILANE, 15' TO 2' FROM EDGE OF PAVEMENT
- 701106-01 OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
- 701201-02 LANE CLOSURE, 2L, 2W, DAY ONLY FOR SPEEDS >= 45MPH
- 701602-02 URBAN LANE CLOSURE, MULTILANE, 2W/BIDIRECTIONAL LEFT TURN LANE
- 702001-06 TRAFFIC CONTROL DEVICES
- 720001 SIGN PANEL MOUNTING DETAILS
- 720006 SIGN PANEL ERECTION DETAILS
- 720016-01 MAST ARM MOUNTED STREET NAME SIGNS
- 805001 ELECTRICAL SERVICE INSTALLATION DETAILS
- 814001 CONCRETE HANDHOLES
- 814006 DOUBLE HANDHOLES
- 857001 STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
- 862001 UNINTERRUPTIBLE POWER SUPPLY (UPS)
- 873001 TRAFFIC SIGNAL GROUNDING
- 877011-02 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE
- 878001-04 CONCRETE FOUNDATION DETAILS
- 880006 TRAFFIC SIGNAL MOUNTING DETAILS

REVISIONS	
NAME	DATE
DRM	6-06

ILLINOIS DEPARTMENT OF TRANSPORTATION
**INDEX OF SHEETS
AND
GENERAL NOTES**

DATE 4/05
DRAWN BY MLO
CHECKED BY SJK

SUMMARY OF QUANTITIES

CONTRACT NO. 74133

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
				YO30-1E 100% CITY	YO31-1F 80% FEDERAL 10% STATE 10% CITY	YO31-3D 100% CITY
CODE NO	ITEM	UNIT				
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4		4	
67100100	MOBILIZATION	L SUM	1		1	
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1		1	
*72000100	SIGN PANEL - TYPE 1	SQ FT	9		9	
*72000200	SIGN PANEL - TYPE 2	SQ FT	62		62	
*73000100	WOOD SIGN SUPPORT	FOOT	18		18	
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1	1		
80500100	SERVICE INSTALLATION, TYPE A	EACH	1		1	
80802100	WOOD POLE, 35 FT., CLASS 4	EACH	1		1	
81012700	CONDUIT IN TRENCH, 2 1/2" DIA., PVC	FOOT	1044	137	907	
81013200	CONDUIT IN TRENCH, 6" DIA., PVC	FOOT	8		8	
81021560	CONDUIT, AUGERED 2 1/2" DIA., PVC	FOOT	515	80	435	
81021590	CONDUIT, AUGERED 4" DIA., PVC	FOOT	270		270	
81021610	CONDUIT, AUGERED 6" DIA., PVC	FOOT	96		96	
81400100	HANDHOLE	EACH	7		7	
81400300	DOUBLE HANDHOLE	EACH	1		1	
81500200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	1046	137	909	
81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	3047	3047		
82102250	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	EACH	4	4		
82103900	LUMINAIRE, SODIUM VAPOR, MULTI-MOUNT, 250 WATT	EACH	1	1		
82500605	LIGHTING CONTROLLER PHOTOCCELL RELAY	EACH	1	1		
83052600	LIGHT POLE, FIBERGLASS ANCHOR BASE, 45 FT. M.H., TENON MOUNT	EACH	1	1		
83600300	LIGHT POLE FOUNDATION, 30" DIAMETER	FOOT	6.5	6.5		
83800505	BREAKAWAY DEVICE, COUPLING, WITH ALUMINUM SKIRT	EACH	4	4		
85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1		1	
86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1		1	
86400100	TRANSCEIVER - FIBER OPTIC	EACH	2		2	
87100110	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, 6F	FOOT	1419		1419	
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	267		267	
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1889		1889	
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	797		797	
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	54		54	
87502680	TRAFFIC SIGNAL POST, ALUMINUM 14 FT.	EACH	1		1	
87502700	TRAFFIC SIGNAL POST, ALUMINUM 16 FT.	EACH	2		2	
87502720	TRAFFIC SIGNAL POST, ALUMINUM 18 FT.	EACH	1		1	

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
				YO30-1E 100% CITY	YO31-1F 80% FEDERAL 10% STATE 10% CITY	YO31-3D 100% CITY
CODE NO	ITEM	UNIT				
87702900	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 34 FT.	EACH	1		1	
87702930	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 40 FT.	EACH	1		1	
87702970	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	1		1	
87702980	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 50 FT.	EACH	1		1	
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	12		12	
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	3		3	
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	52		52	
87900200	DRILL EXISTING HANDHOLE	EACH	1		1	
88200400	TRAFFIC SIGNAL BACKPLATE, FORMED PLASTIC	EACH	18		18	
88700200	LIGHT DETECTOR	EACH	4			4
88700300	LIGHT DETECTOR AMPLIFIER	EACH	1			1
88800100	PEDESTRIAN PUSH-BUTTON	EACH	2		2	
X0320872	VIDEO VEHICLE DETECTION SYSTEM	EACH	1		1	
X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	627			
X8730250	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	1175			1175
X8801310	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	8		8	
X8801400	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	2		2	
X8801415	SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2		2	
X8801437	SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 1-3-SECTION, 1-5-SECTION, BRACKET MOUNTED	EACH	2		2	
X8810395	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED	EACH	2		2	

* DENOTES SPECIALTY ITEM

REVISIONS	
NAME	DATE
DRM	6-06

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

DRAWN BY MLO
CHECKED BY SJK
DATE 4/05

F.A.P. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
774 (107Z) TSL-4	EFFINGHAM	13	4
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			

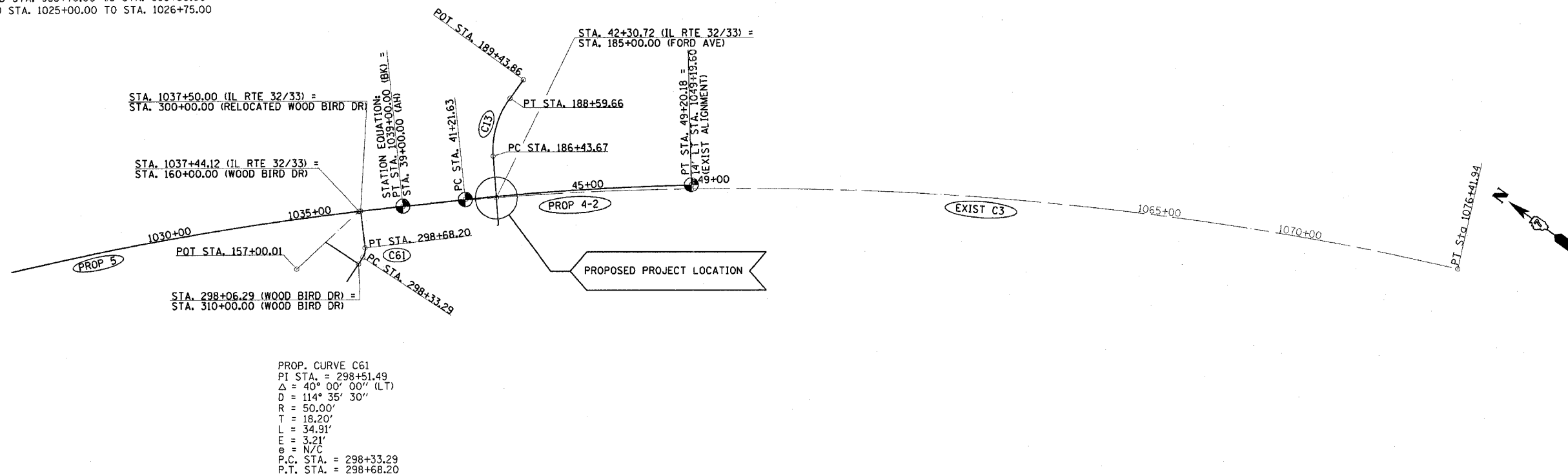
CONTRACT NO. 74133

PROP. CURVE PROP5
 PI STA. = 1014+09.68
 $\Delta = 25^\circ 19' 45''$ (RT)
 $D = 0^\circ 30' 00''$
 $R = 11,456.75'$
 $T = 2,574.44'$
 $L = 5,064.76'$
 $E = 285.69'$
 $e = 1.56\%$
 P.C. STA. = 988+35.24
 P.T. STA. = 1039+00.00
 SE ATTAINED STA. 985+70.00 TO STA. 989+00.00
 SE REMOVED STA. 1025+00.00 TO STA. 1026+75.00

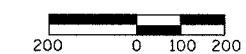
EXIST. CURVE C13
 PI STA. = 187+56.58
 $\Delta = 41^\circ 14' 58''$ (RT)
 $D = 19^\circ 05' 55''$
 $R = 300.00'$
 $T = 112.91'$
 $L = 215.98'$
 $E = 20.54'$
 $e = \text{-----}$
 P.C. STA. = 186+43.67
 P.T. STA. = 188+59.66

PROP. CURVE PROP4-2
 PI STA. = 45+21.11
 $\Delta = 4^\circ 27' 29''$ (RT)
 $D = 0^\circ 33' 30''$
 $R = 10,263.16'$
 $T = 399.48'$
 $L = 798.55'$
 $E = 7.77'$
 $e = \text{N/C}$
 P.C. STA. = 41+21.63
 P.T. STA. = 49+20.18

EXISTING CURVE C3
 P.I. STA. = 1034+69.01
 $\Delta = 44^\circ 02' 24''$ (RT)
 $D = 0^\circ 30' 00''$
 $R = 11,457.45'$
 $T = 4,633.77'$
 $L = 8,806.70'$
 $E = 901.55'$
 $e = 1.55\%$
 P.C. STA. = 988+35.24
 P.T. STA. = 1076+41.94



LEGEND
 ● DENOTES PERMANENT SURVEY MARKER PLACED DURING ROADWAY CONSTRUCTION.

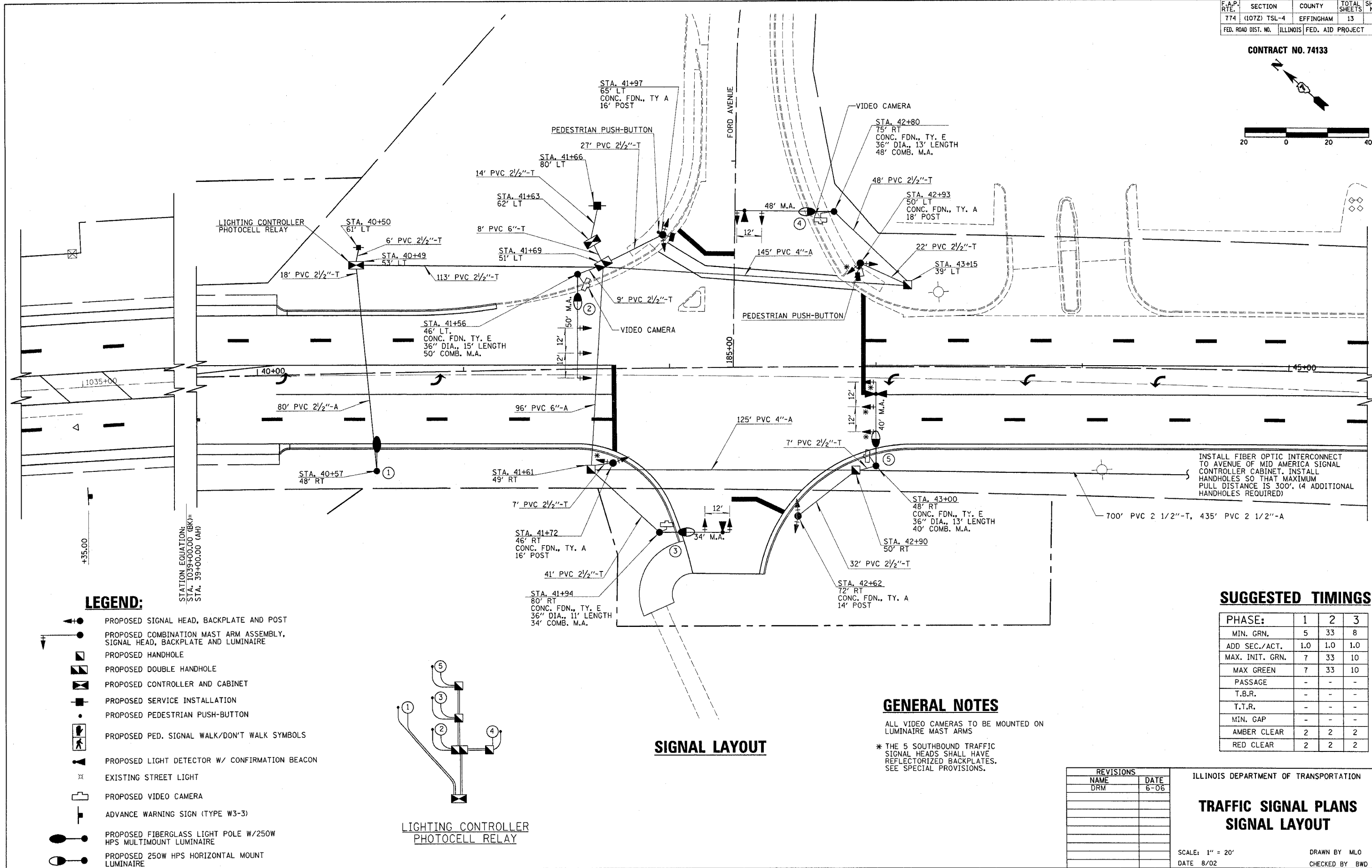
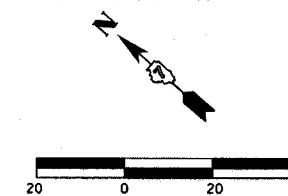


REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
HORIZONTAL ALIGNMENT PLAN
 SCALE: 1"=200'
 DATE: 4/22/02
 DRAWN BY: NJV
 CHECKED BY: BKB

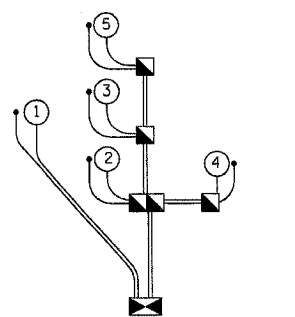
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
774	(1072) TSL-4	EFFINGHAM	13	5
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 74133



LEGEND:

- PROPOSED SIGNAL HEAD, BACKPLATE AND POST
- PROPOSED COMBINATION MAST ARM ASSEMBLY, SIGNAL HEAD, BACKPLATE AND LUMINAIRE
- PROPOSED HANDHOLE
- PROPOSED DOUBLE HANDHOLE
- PROPOSED CONTROLLER AND CABINET
- PROPOSED SERVICE INSTALLATION
- PROPOSED PEDESTRIAN PUSH-BUTTON
- PROPOSED PED. SIGNAL WALK/DON'T WALK SYMBOLS
- PROPOSED LIGHT DETECTOR W/ CONFIRMATION BEACON
- EXISTING STREET LIGHT
- PROPOSED VIDEO CAMERA
- ADVANCE WARNING SIGN (TYPE W3-3)
- PROPOSED FIBERGLASS LIGHT POLE W/250W HPS MULTIMOUNT LUMINAIRE
- PROPOSED 250W HPS HORIZONTAL MOUNT LUMINAIRE



LIGHTING CONTROLLER
PHOTOCELL RELAY

SIGNAL LAYOUT

GENERAL NOTES

ALL VIDEO CAMERAS TO BE MOUNTED ON LUMINAIRE MAST ARMS
 * THE 5 SOUTHBOUND TRAFFIC SIGNAL HEADS SHALL HAVE REFLECTORIZED BACKPLATES. SEE SPECIAL PROVISIONS.

SUGGESTED TIMINGS

PHASE:	1	2	3
MIN. GRN.	5	33	8
ADD SEC./ACT.	1.0	1.0	1.0
MAX. INIT. GRN.	7	33	10
MAX GREEN	7	33	10
PASSAGE	-	-	-
T.B.R.	-	-	-
T.T.R.	-	-	-
MIN. GAP	-	-	-
AMBER CLEAR	2	2	2
RED CLEAR	2	2	2

REVISIONS		
NAME	DATE	
DRM	6-06	

ILLINOIS DEPARTMENT OF TRANSPORTATION

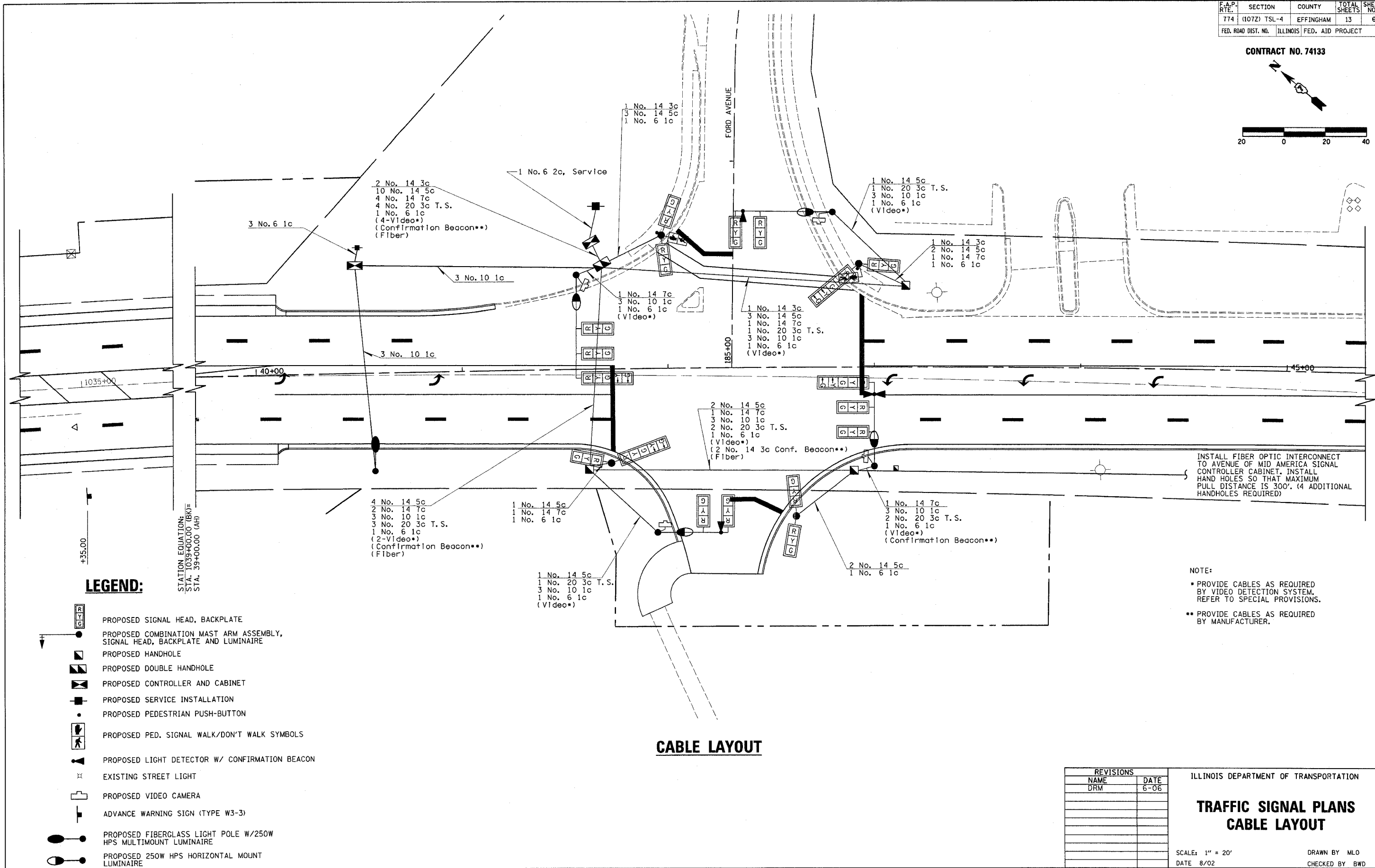
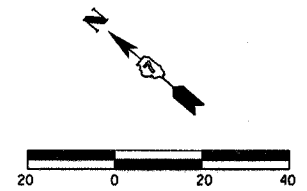
**TRAFFIC SIGNAL PLANS
SIGNAL LAYOUT**

SCALE: 1" = 20'
DATE 8/02

DRAWN BY MLO
CHECKED BY BWD

F.A.P. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
774	(107Z) TSL-4	EFFINGHAM	13	6
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

CONTRACT NO. 74133



LEGEND:

- PROPOSED SIGNAL HEAD, BACKPLATE
- PROPOSED COMBINATION MAST ARM ASSEMBLY, SIGNAL HEAD, BACKPLATE AND LUMINAIRE
- PROPOSED HANDHOLE
- PROPOSED DOUBLE HANDHOLE
- PROPOSED CONTROLLER AND CABINET
- PROPOSED SERVICE INSTALLATION
- PROPOSED PEDESTRIAN PUSH-BUTTON
- PROPOSED PED. SIGNAL WALK/DON'T WALK SYMBOLS
- PROPOSED LIGHT DETECTOR W/ CONFIRMATION BEACON
- EXISTING STREET LIGHT
- PROPOSED VIDEO CAMERA
- ADVANCE WARNING SIGN (TYPE W3-3)
- PROPOSED FIBERGLASS LIGHT POLE W/250W HPS MULTIMOUNT LUMINAIRE
- PROPOSED 250W HPS HORIZONTAL MOUNT LUMINAIRE

STATION EQUATION:
STA. 1039+00.00 (TRW)=
STA. 39+00.00 (AH)

INSTALL FIBER OPTIC INTERCONNECT TO AVENUE OF MID AMERICA SIGNAL CONTROLLER CABINET. INSTALL HAND HOLES SO THAT MAXIMUM PULL DISTANCE IS 300'. (4 ADDITIONAL HANDHOLES REQUIRED)

- NOTE:
- PROVIDE CABLES AS REQUIRED BY VIDEO DETECTION SYSTEM. REFER TO SPECIAL PROVISIONS.
 - PROVIDE CABLES AS REQUIRED BY MANUFACTURER.

CABLE LAYOUT

REVISIONS	
NAME	DATE
DRM	6-06

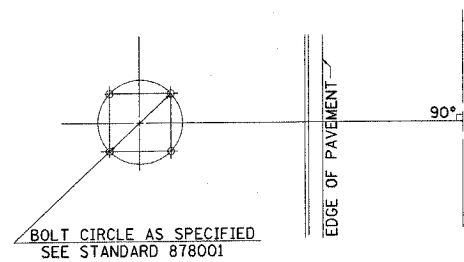
ILLINOIS DEPARTMENT OF TRANSPORTATION

**TRAFFIC SIGNAL PLANS
CABLE LAYOUT**

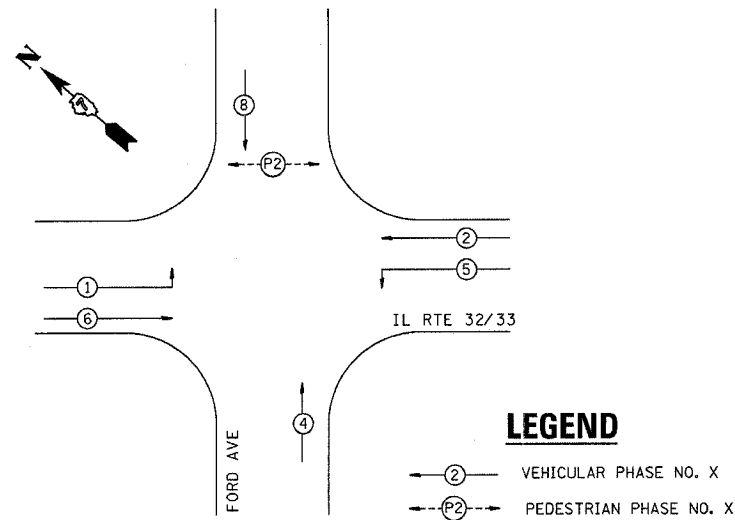
SCALE: 1" = 20'
DATE 8/02
DRAWN BY MLO
CHECKED BY BWD

F.A.P. RITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
774	(1072) TSL-4	EFFINGHAM	13	7
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

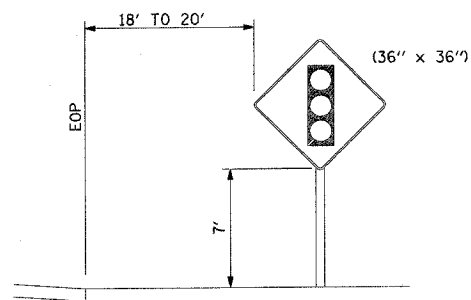
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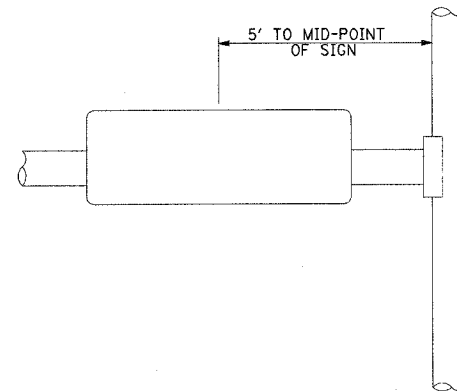
**DETAIL OF MAST ARM FOUNDATION
BOLT PATTERN**



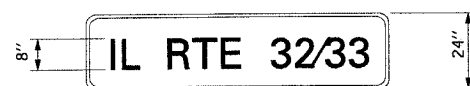
PHASE DESIGNATION DIAGRAM



**STOP LIGHT AHEAD SIGN
TYPE W3-3**
(1 REQUIRED)



MOUNTING LOCATION



S-1
(2 REQUIRED)



S-2
(2 REQUIRED)

STREET NAME SIGNS

NOTES:

1. ALL SIGNS SHALL HAVE A WHITE REFLECTORIZED LEGEND AND BORDER ON A GREEN REFLECTORIZED BACKGROUND.
2. LETTER SIZE 80.

BILL OF MATERIALS-TRAFFIC SIGNALS

ITEM	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	9
SIGN PANEL - TYPE 2	SQ FT	62
WOOD SIGN SUPPORT	FOOT	18
SERVICE INSTALLATION, TYPE A	EACH	1
WOOD POLE, 35 FT., CLASS 4	EACH	1
CONDUIT IN TRENCH, 2 1/2" DIA., PVC	FOOT	907
CONDUIT IN TRENCH, 6" DIA., PVC	FOOT	8
CONDUIT, AUGERED 2 1/2" DIA., PVC	FOOT	435
CONDUIT, AUGERED 4" DIA., PVC	FOOT	270
CONDUIT, AUGERED 6" DIA., PVC	FOOT	96
HANDHOLE	EACH	7
DOUBLE HANDHOLE	EACH	1
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	909
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
TRANSCIVER - FIBER OPTIC	EACH	2
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, 6F	FOOT	1419
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	267
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1889
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	797
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	54
TRAFFIC SIGNAL POST, ALUMINUM 14 FT.	EACH	1
TRAFFIC SIGNAL POST, ALUMINUM 16 FT.	EACH	2
TRAFFIC SIGNAL POST, ALUMINUM 18 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 34 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 40 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 50 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	12
CONCRETE FOUNDATION, TYPE C	FOOT	3
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	52
DRILL EXISTING HANDHOLE	EACH	1
TRAFFIC SIGNAL BACKPLATE, FORMED PLASTIC	EACH	18
LIGHT DETECTOR	EACH	4
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	2
VIDEO VEHICLE DETECTION SYSTEM	EACH	1
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	627
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	1175
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3 SECTION, MAST ARM MOUNTED	EACH	8
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5 SECTION, MAST ARM MOUNTED	EACH	2
SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED	EACH	2

REVISIONS	
NAME	DATE
DRM	6-06

ILLINOIS DEPARTMENT OF TRANSPORTATION
**TRAFFIC SIGNAL PLANS
BILL OF MATERIALS
& DETAILS**

DATE 8/02

DRAWN BY MLO
CHECKED BY BWD

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
774	(1072) TSL-4	EFFINGHAM	13	8
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 74133

SCHEDULE OF LIGHTING QUANTITIES

ELECTRIC SERVICE INSTALLATION (80400100)

STATION	EACH
61' LT STA. 40+50.12	1

CONDUIT IN TRENCH, 2 1/2" DIA., PVC (81012700)

STATION	STATION	FEET
53' LT STA. 40+49	33' LT STA. 40+51	18
53' LT STA. 40+49	61' LT STA. 40+50	6
53' LT STA. 40+49	51' LT STA. 41+69	113
		137

CONDUIT, AUGERED, 2 1/2" DIA., PVC (81021560)

STATION	STATION	FEET
33' LT STA. 40+51	48' RT STA. 40+57	80

TRENCH AND BACKFILL FOR ELECTRICAL WORK (81500200)

STATION	STATION	FEET
61' LT STA. 40+50	53' LT STA. 40+49	6
53' LT STA. 40+49	33' LT STA. 40+51	18
53' LT STA. 40+49	51' LT STA. 41+69	113
		137

ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10 (81702110)

STATION	STATION	FEET	M.H.	SLACK	*COND.	FEET
48' RT STA. 40+57	53' LT STA. 40+49	98	60	6	3	492
53' LT STA. 40+49	51' LT STA. 41+69	113	0	16	3	387
51' LT STA. 41+69	48' RT STA. 43+00	228	55	16	3	897
49' RT STA. 41+61	80' RT STA. 41+94	41	55	3	3	297
46' LT STA. 41+56	51' LT STA. 41+69	9	55	3	3	201
51' LT STA. 41+69	75' LT STA. 42+80	193	55	9.5	3	772.5
						TOTAL: 3046.5

NOTE:
M.H.=LUMINAIRE MOUNTING HEIGHT+ DAVIT ARM LENGTH
SLACK: CONTROLLER=3', DHH=13', HH=3.5' & FOUNDATION=3'

LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT (82102250)

STATION	EACH	
51' RT STA. 184+39.00	1	
51' RT STA. 185+73.00	1	
36' LT STA. 184+28.00	1	
79' LT STA. 185+44.00	1	
		4

LUMINAIRE, SODIUM VAPOR, MULTI MOUNT, 250 WATT (82103900)

STATION	EACH
48' RT STA. 40+57.43	1

LIGHTING CONTROLLER PHOTOCELL RELAY - 240 VOLT (82500605)

STATION	EACH
53' LT STA. 40+49	1

LIGHT POLE, FIBERGLASS ANCHOR BASE, 45 FT. M.H., TENON MOUNT (83052600)

STATION	EACH
48' RT STA. 40+57.43	1

LIGHT POLE FOUNDATION, 30" DIAMETER (83600300)

STATION	FEET
48' RT STA. 40+57.43	6'-6"

BREAKAWAY DEVICE, COUPLING, WITH ALUMINUM SKIRT (83800505)

STATION	EACH
48' RT STA. 40+57.43	4

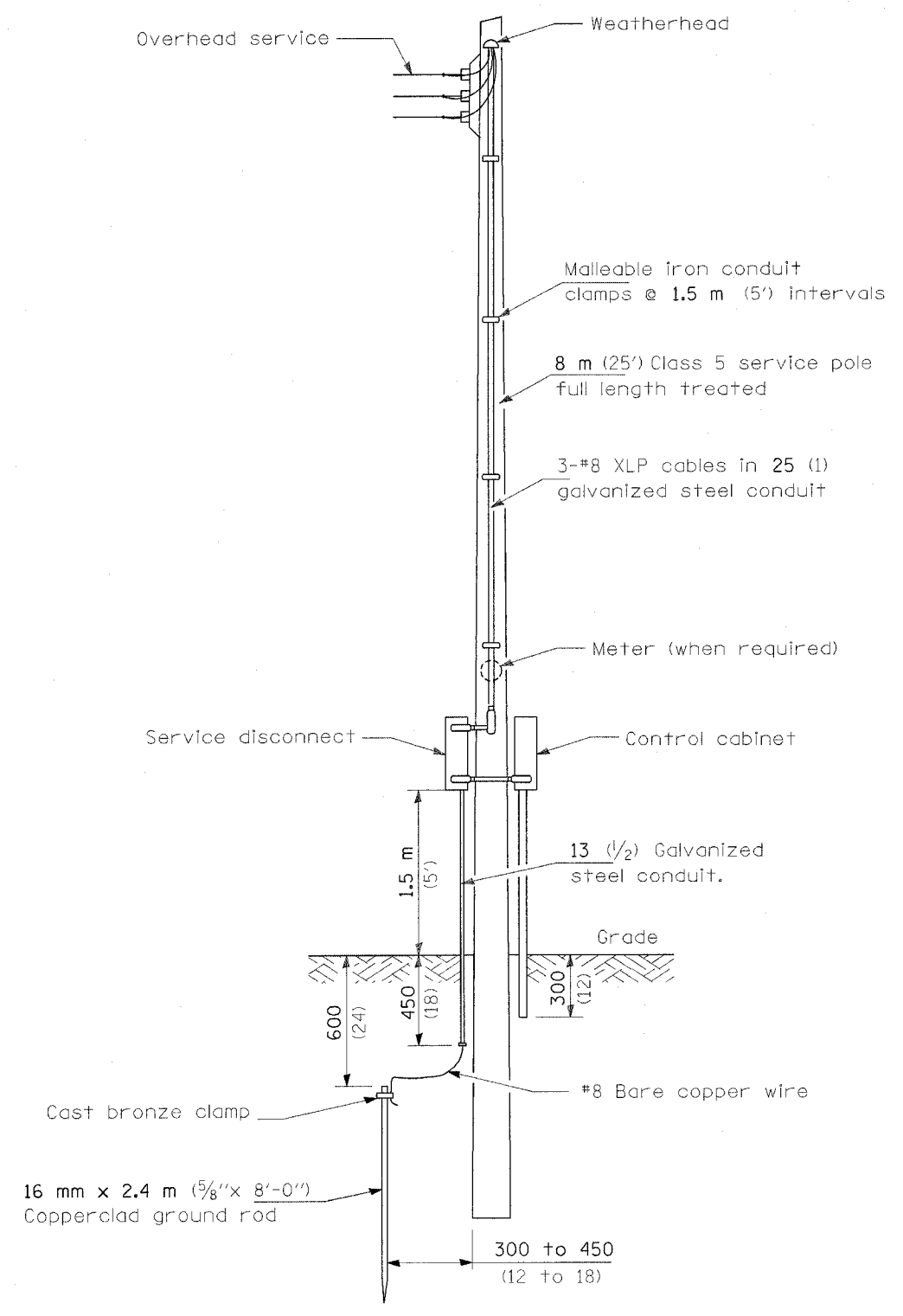
REVISIONS	
NAME	DATE
DRM	6-06

ILLINOIS DEPARTMENT OF TRANSPORTATION

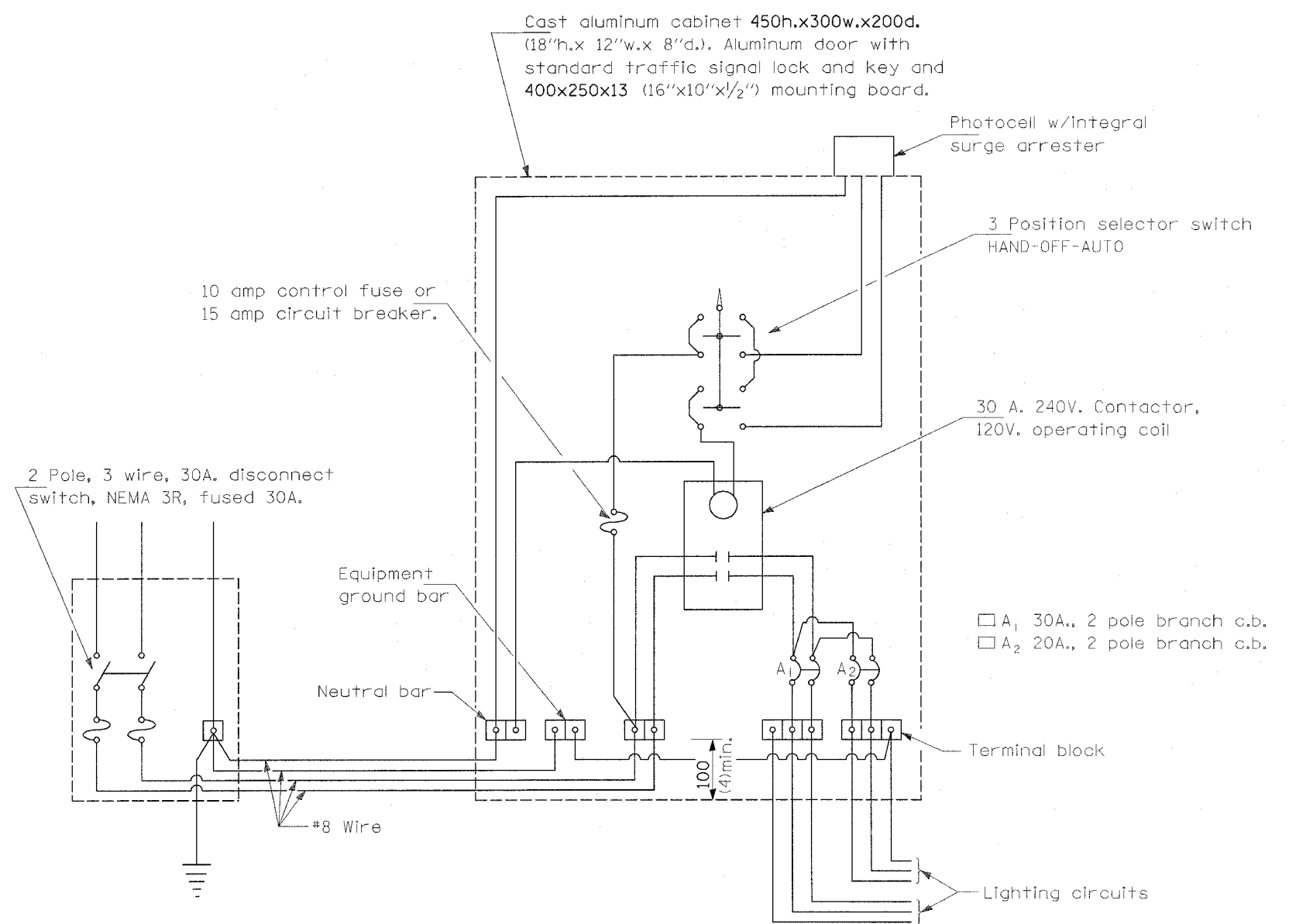
LIGHTING SCHEDULE

DATE 8/02
DRAWN BY MLO
CHECKED BY BWD

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
774	(1072) TSL-4	EFFINGHAM	13	9
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



SERVICE POLE



DISCONNECT SWITCH

PHOTOCELL RELAY

GENERAL NOTES

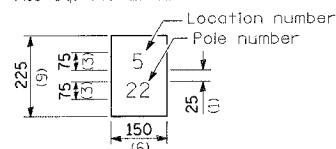
All equipment shall be U.L. Listed.
All dimensions are in millimeters unless otherwise shown.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION CONTROL INSTALLATION SERVICE POLE MOUNTED 120/240V., 1 PHASE, 3 WIRE SERVICE SCALE: VERT. HORIZ. DATE	DRAWN BY CHECKED BY
NAME	DATE		

PLOT DATE = 8/1/2006
FILE NAME = #FILEL#
PLOT SCALE = #SCALE#
USER NAME = davisrct

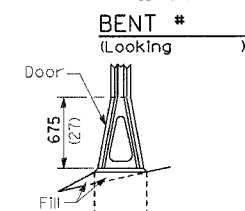
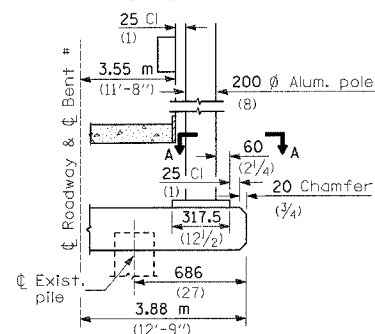
"Install and orient arm bracket over pole tenon and firmly hand tighten the two set screws. Use third hole in arm bracket as a guide to drill a 8.3 (5/8) diameter hole through tenon. Install and tighten self-tapping screw. Tighten set screws an additional (1/4 to 3/8) turn with hex key (not provided). Install locknuts on set screws if threaded projection allows."

Pole shall meet AASHTO Standard Specifications for 128.72 km (80 mph) wind loading and 40.82 kg (90 lb.), .37 m² (4.0 sq. ft.) E.P.A. luminaire.

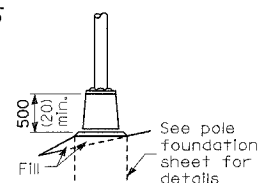


The contractor shall furnish and install a light pole identification of each new light pole, as shown above, incidental to the respective light pole pay item. The numerals shall be 75 (3) series "D", black, screened on silver-white type B pressure sensitive reflective sheeting conforming to the requirements of section T602.01 of the Standard Specifications for Traffic Control Items. The numerals shall conform to the FHWA "Standard Alphabets for Highway Signs".

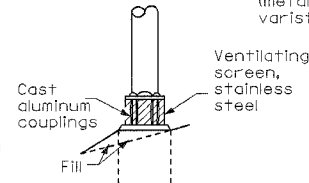
The light pole identification shall be applied to sign base material as specified in section 1085.05 of the Standard Specifications, approximately 180 (7) above the adjacent pavement grade visible to approaching traffic in accordance with Highway Standard 2319.



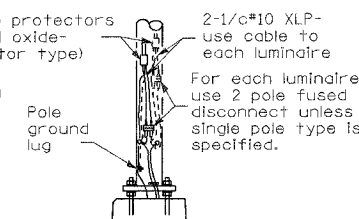
STAINLESS STEEL FLAIR BASE



TRANSFORMER BASE



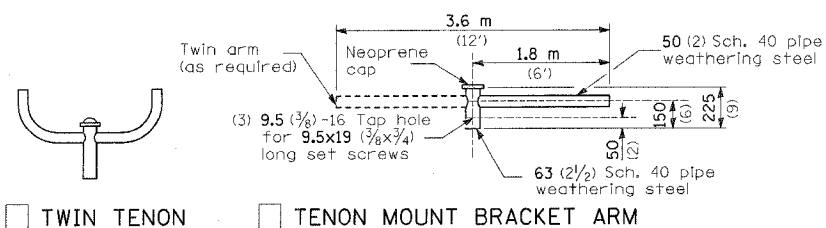
BREAKAWAY COUPLING



ANCHOR

METAL OR CONCRETE

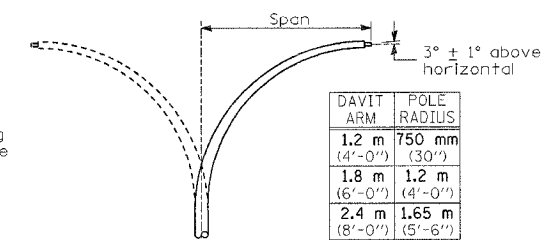
Details for underground distribution if required



TWIN TENON

TENON MOUNT BRACKET ARM

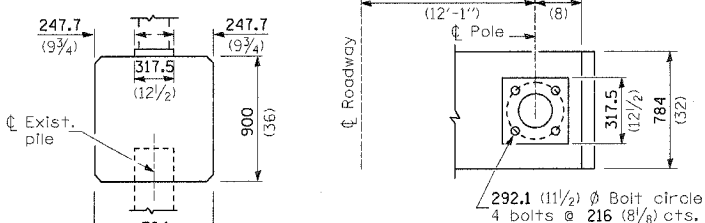
NOTE: Single or twin arm assembly shall be tilted 3° above horizontal.



DAVIT ARM (and or)

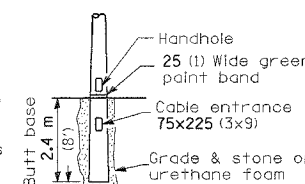
DAVIT ARM-TWIN

DAVIT ARM	POLE RADIUS
1.2 m (4'-0")	750 mm (30")
1.8 m (6'-0")	1.2 m (4'-0")
2.4 m (8'-0")	1.65 m (5'-6")

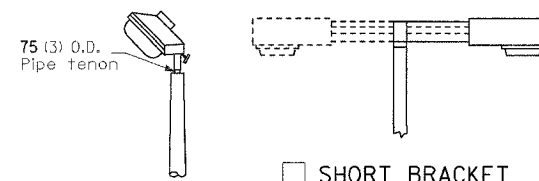


BRIDGE PIER MOUNT

SECTION A-A



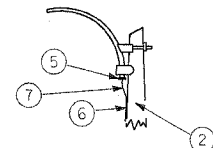
BUTT BASE



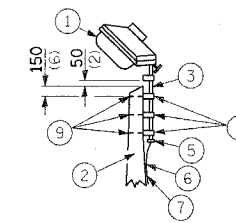
SHORT BRACKET

SHORT BRACKET - TWIN

TENON

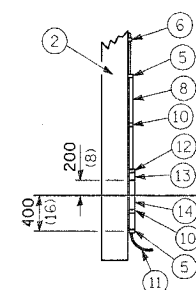


MAST ARM



TENON

- 1 Luminaire
- 2 Wood pole, class 3 or better
- 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) Galv. steel conduit 3.0 m (10') in length
- 9 16 (5/8) hot dipped galvanized bolt with flat washer & locknut (3 req'd)
- 10 Conduit clamps on 900 (36) centers
- 11 Unit duct
- 12 Threaded reducer
- 13 "C" Condulet, threaded
- 14 40 (1 1/2) Galv. steel conduit for 1 unit duct or 75 (3) galv. steel conduit for 2 or 3 unit ducts.



POLE, WOOD

POLE LENGTH	DEPTH IN GROUND
19.8 m (65')	3.6 m (12')
18.0 m (60')	3.0 m (10')
16.8 m (55')	2.7 m (9')
16.0 m (50')	2.4 m (8')
13.7 m (45')	2.1 m (7')
12.0 m (40')	2.0 m (6.5')
10.7 m (35')	1.8 m (6')
9.0 m (30')	1.7 m (5.5')

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

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

LIGHTING DETAILS

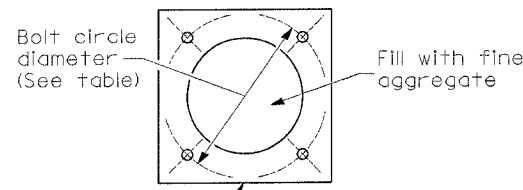
DATE 2/03

DRAWN BY DIST. 7
CHECKED BY BWC

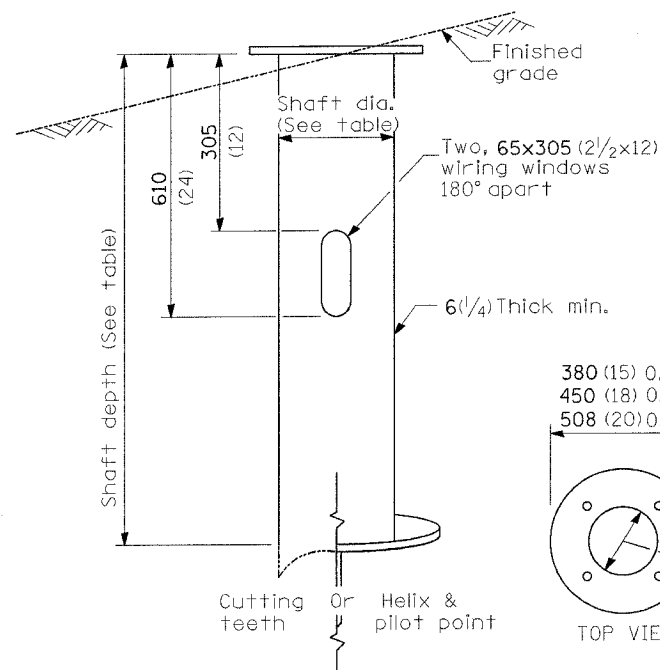
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
774	(107Z) TSL-4	EFFINGHAM	13	11
STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		

LIGHT POLE MOUNTING HEIGHT	BOLT CIRCLE DIAMETER	STEEL FOUNDATION			CONCRETE FOUNDATION		
		SHAFT DIAMETER	SHAFT DEPTH	TOP PLATE (min)	SHAFT DIAMETER	SHAFT DEPTH	ANCHOR ROD LENGTH ①
<9.1 m (30')	292 (11.5)	220 (8 5/8)	1.83 m (6')	300 x 300 x 25 12 x 12 x 1	610 (24)	1.52 m (5'-0")	1.45 m (4'-9")
9.4 m - 10.7 m (31'-35')	292 (11.5)	220 (8 5/8)	1.83 m (6')	300 x 300 x 25 12 x 12 x 1	610 (24)	1.67 m (5'-6")	1.60 m (5'-3")
10.9 m - 12.2 m (36'-40')	381 (15) ③	220 (8 5/8)	1.83 m (6') ②	375 x 375 x 31 15 x 15 x 1 1/4	762 (30)	1.83 m (6'-0")	1.75 m (5'-9")
12.5 m - 13.7 m (41'-45')	381 (15) ③	220 (8 5/8)	1.83 m (6') ②	375 x 375 x 31 15 x 15 x 1 1/4	762 (30)	1.98 m (6'-6")	1.90 m (6'-3")
14.0 m - 15.2 m (46'-50')	381 (15) ③	220 (8 5/8)	2.44 m (8')	375 x 375 x 31 15 x 15 x 1 1/4	762 (30)	2.13m (7'-0")	2.00 m (6'-9")

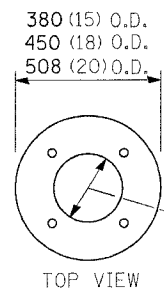
- ① Length does not include 100(4)hook
- ② 220 mm x 2.44 m (8 5/8" x 8'-0") for Twin luminaires
- ③ Bolt circle diam. shall be 430 (17) when a TB3-17 transformer base is used



Wireway location identification marks shall be notched in side of plate or stamped on top.



STEEL FOUNDATION



RING PLATE DETAIL
(When rock is encountered and foundation is shallower)

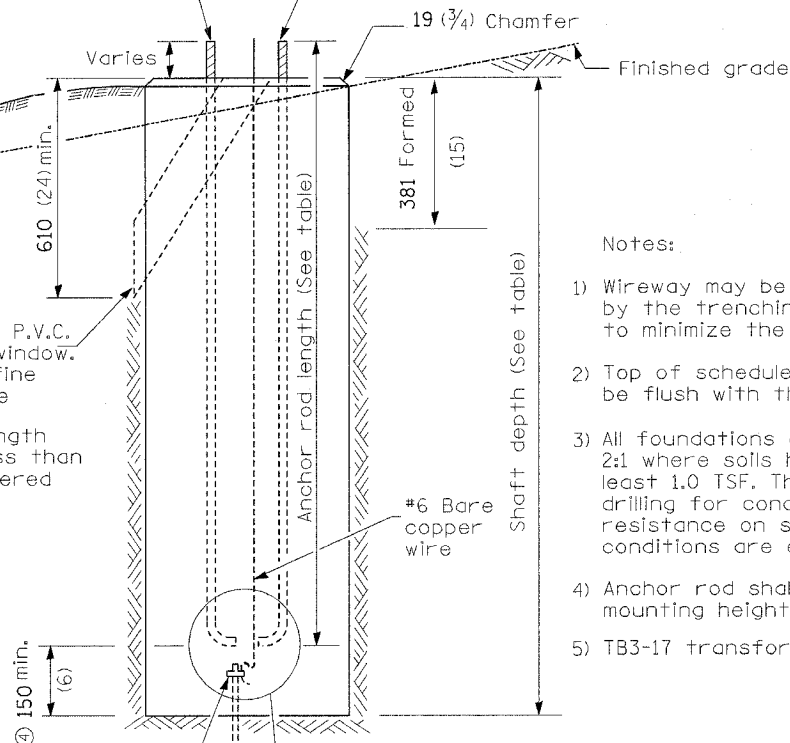
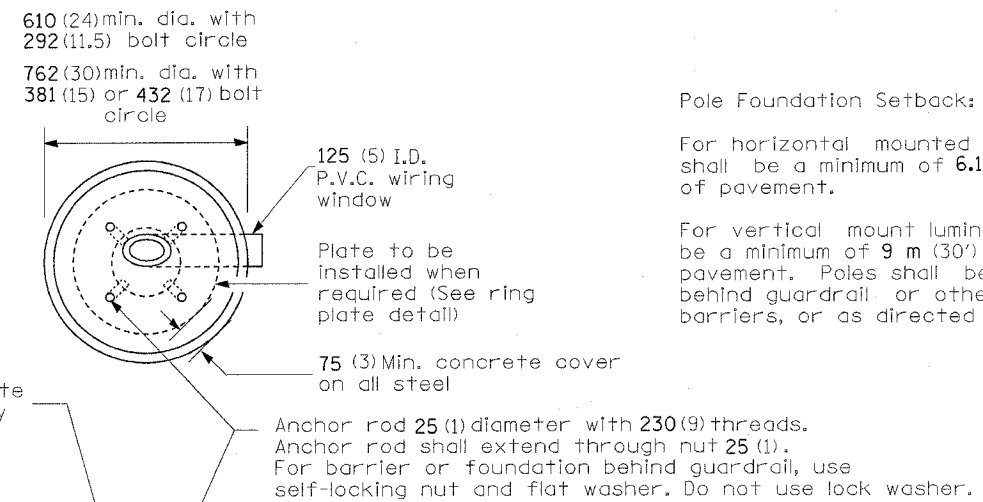
Length above foundation shall be adjusted to accommodate breakaway devices furnished by the contractor for a specific installation.

Use dirt removed from foundation to meet 1.52m (5 ft.) chord fill around foundation top. Grade dirt level with bottom of concrete chamfer.

- ④ If the required anchor rod length above top of foundation is less than 75 (3), anchor rods may be lowered below 150 (6).

Cast bronze clamp
16 mm x 3 m (5/8" x 10')
Copperclad grounding electrode. When foundation is set in rock, install ground electrode in cable trench.

CONCRETE FOUNDATION



Notes:

- 1) Wireway may be on front, back or side of foundation as required by the trenching. Place door of transformer base on wireway side to minimize the number of unit duct bends.
- 2) Top of schedule 40 125 (5) I.D. PVC wiring window, shall be flush with the top of foundation for drainage.
- 3) All foundations are designed to be located on slopes not exceeding 2:1 where soils have an unconfined compressive strength of at least 1.0 TSF. The contractor shall verify the soil strength during drilling for concrete foundations or by monitoring installation resistance on steel foundations and notify the engineer if other conditions are encountered.
- 4) Anchor rod shall be increased to 31 (1 1/4) diameter for 15.24 (50') mounting height or above.
- 5) TB3-17 transformer base is not to be used on metal foundation

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

REVISIONS	
NAME	DATE
Bridge Office	10/17/02
depth calc.	

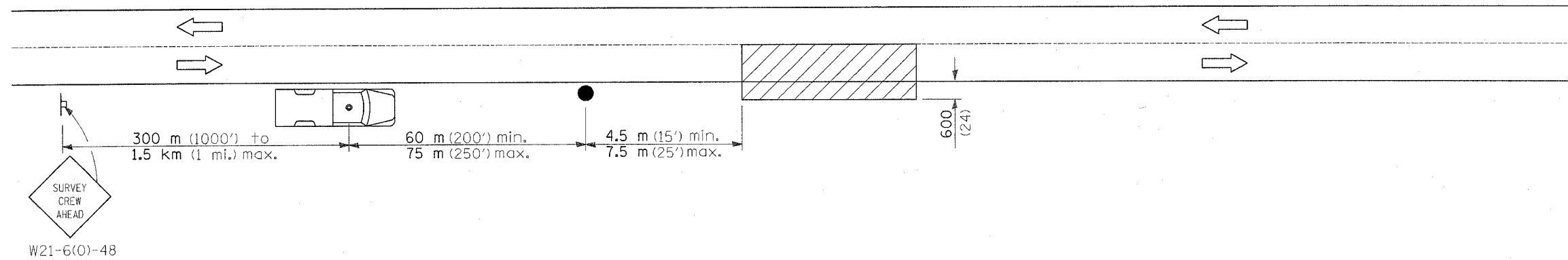
ILLINOIS DEPARTMENT OF TRANSPORTATION

LIGHT POLE FOUNDATION

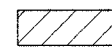
SCALE: VERT. HORIZ. DATE


DRAWN BY CHECKED BY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
774	(107Z) TSL-4	EFFINGHAM	13	12
STA.		TD STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		




SYMBOLS

 Work area

 Sign on portable or permanent support

 Truck with flashing amber light and dual emergency flashers

 Flagger with traffic control sign

TYPICAL APPLICATIONS

Utility operations

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

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
**DETAIL FOR
 NIGHTTIME LIGHTING
 INSPECTION**

SCALE: VERT. DATE: HORIZ. DRAWN BY: CHECKED BY:

PLOT DATE = 04/2006
 FILE NAME = #FILE#
 PLOT SCALE = #SCALE#
 USER NAME = district



SOIL BORING LOG

ROUTE FAP 774 (IL 3233) DESCRIPTION TS Mast Arm Foundations: IL 3233 and Ford Ave LOGGED BY E. Sandschafer

SECTION 107Z/TSL-4 LOCATION SE 14, SEC. 18, TWP. 8 N, RNG. 6 E, 3 PM

COUNTY Effingham DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. gINT File	D E L C O	B U M	Surface Water Elev. NA ft	D E L C O
Station 025-1604	P O S I	P O S I	Stream Bed Elev. NA ft	P O S I
BORING NO. 1 (SW)	T W S	T W S	Groundwater Elev.:	T W S
Station 43+00	H S Qu T	H S Qu T	First Encounter 579.8 ft	H S Qu T
Offset 48.00ft Rt			Upon Completion 578.1 ft	
Ground Surface Elev. 591.76 ft	(ft) (6") (tsf) (%)	(ft) (6") (tsf) (%)	After 24 Hrs. 587.6 ft	(ft) (6") (tsf) (%)

Very stiff to stiff, damp, gray mottled red, CLAY w/trace fine gravel and sand.	2			Benchmark: TBM painted square on sidewalk ramp in SE quadrant of IL 3233 and Ford Avenue intersection = 591.06'
	4	2.1	14	
	5	B		
	2			
	4	1.5	15	
	5	B		
	2			
	3	0.3	17	
	4	B		
	588.86			
Soft, very damp, red, SANDY LOAM w/trace fine gravel.	13			
	31	4.0	7	
	39	S		
	16			
	29	6.5	8	
38	S *			
Very stiff to hard, very moist, red to gray, SANDY CLAY LOAM TILL.	20			
	34	6.5	7	
	50	S *		
	19			
	30	6.1	7	
38	S *			
578.26				
Extent of exploration.				

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

ROUTE FAP 774 (IL 3233) DESCRIPTION TS Mast Arm Foundations: IL 3233 and Ford Ave LOGGED BY E. Sandschafer

SECTION 107Z/TSL-4 LOCATION SE 14, SEC. 18, TWP. 8 N, RNG. 6 E, 3 PM

COUNTY Effingham DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. gINT File	D E L C O	B U M	Surface Water Elev. NA ft	D E L C O
Station 025-1604	P O S I	P O S I	Stream Bed Elev. NA ft	P O S I
BORING NO. 2 (NE)	T W S	T W S	Groundwater Elev.:	T W S
Station 41-65	H S Qu T	H S Qu T	First Encounter Dry ft	H S Qu T
Offset 46.00ft Lt			Upon Completion Dry ft	
Ground Surface Elev. 589.84 ft	(ft) (6") (tsf) (%)	(ft) (6") (tsf) (%)	After 24 Hrs. 583.6 ft	(ft) (6") (tsf) (%)

Very stiff to medium, damp, red marbled gray, CLAY w/trace sand.	3			Soft, damp, gray, SANDY LOAM 689.04 Brown, CLAY TILL. 588.84 Extent of exploration. Benchmark: TBM painted square on sidewalk ramp in SE quadrant of IL 3233 and Ford Avenue intersection = 591.06'
	3	2.4	17	
	4	B		
	2			
	2	1.0	15	
	3	B		
	7			
	12	3.9	10	
	23	B		
	582.84			
Very stiff, very moist, gray, SANDY CLAY TILL.	17			
	36	3.1	7	
	505"	S *		
	* Note: Samples re-assembled to test for Qu.			
	577.84			
Hard, very moist, gray, SANDY CLAY TILL. Damaged sampler shoe, possible cobble at sample depth.	505"	4.5	7	
	500"	PP		
	500"			
	575.84			
	29			
Hard, very moist, tan mottled red, SILTY CLAY LOAM TILL.	40	3.7	8	
	50	S *		
	30			
	505"	6.3	7	
	504"	S		
569.84				

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)

PLOT DATE = 8/1/2006
 FILE NAME = #FILE#
 PLOT SCALE = #SCALE#
 USER NAME = dnt-1st

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	

BORING LOGS

SCALE: VERT. _____
 HORIZ. _____
 DATE _____

DRAWN BY DIST. 7
 CHECKED BY L.A.M.