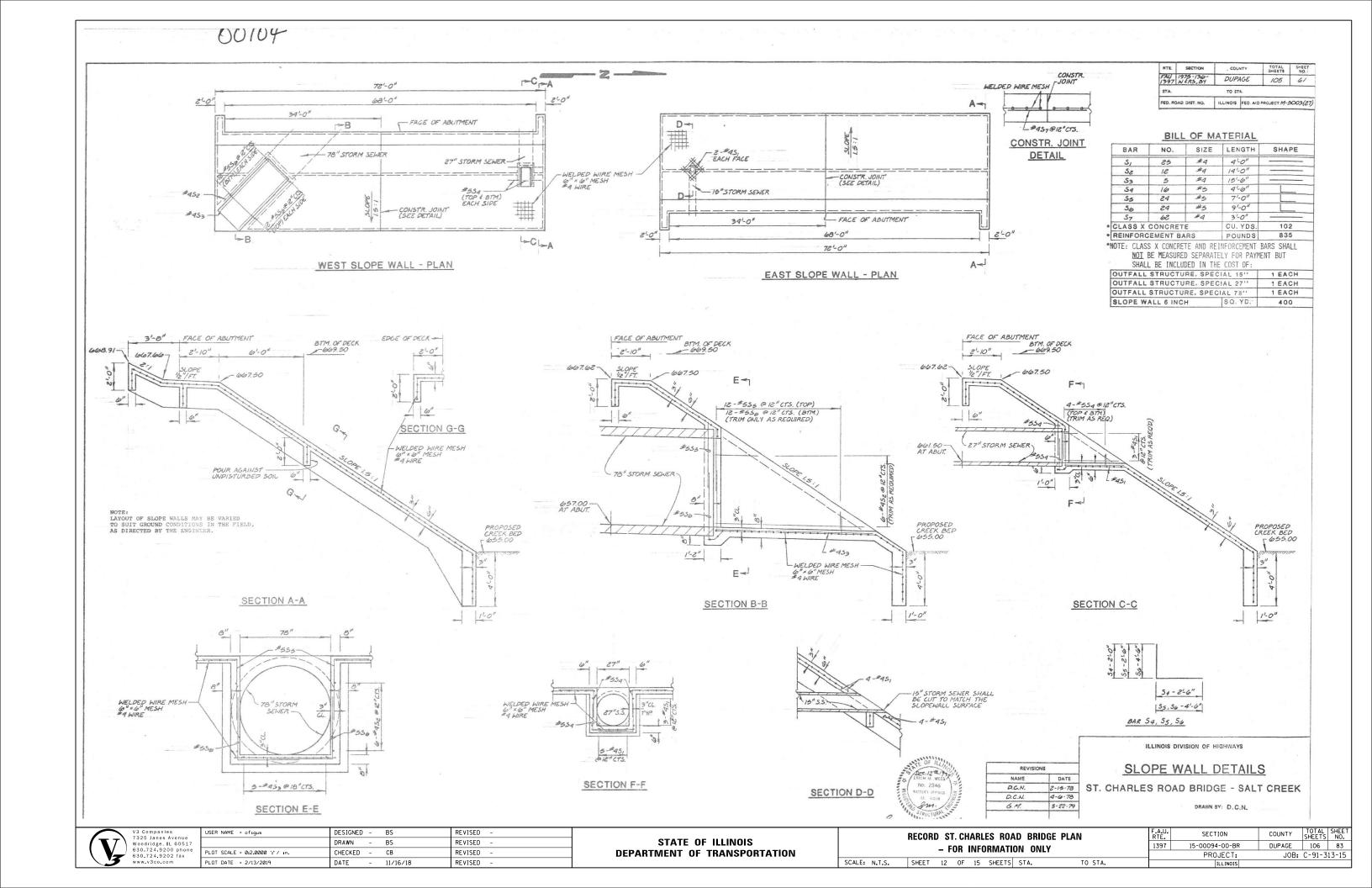


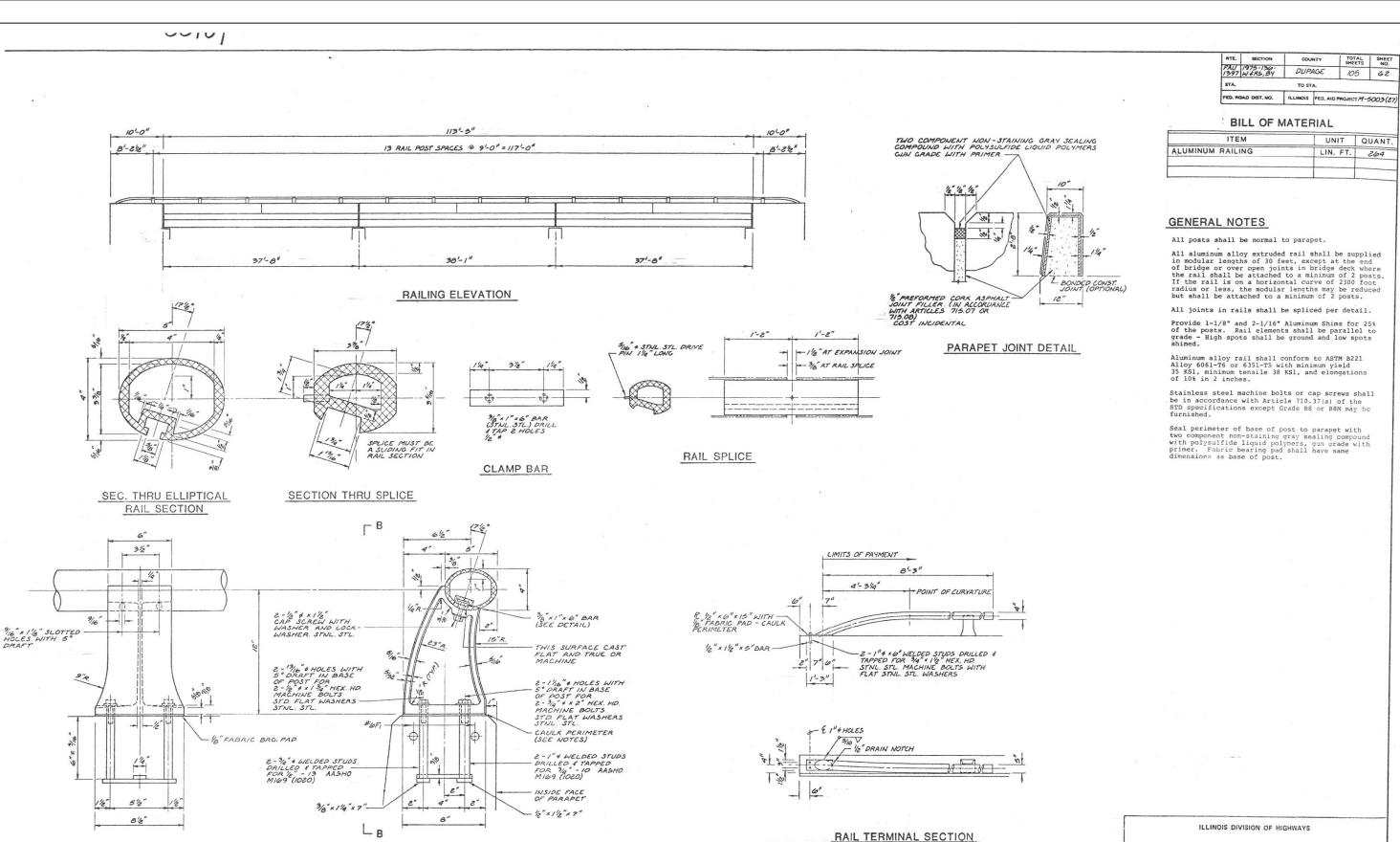
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DEPARTMENT OF TRANSPORTATION

SCALE: N.T.S. SHEET 11 OF 15 SHEETS STA. TO STA.

TOTAL SHEE SHEETS NO. DUPAGE 106 82 PROJECT: JOB: C-91-313-15





ILLINOIS DIVISION OF HIGHWAYS

HANDRAIL DETAILS

ST. CHARLES ROAD BRIDGE - SALT CREEK

DRAWN BY: D.C.N.

DATE: 12-13-77

VIEW B-B

USER NAME = cfigus	DESIGNED	-	BS	REVISED -
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PLOT DATE = 2/13/2019	DATE	-	11/16/18	REVISED -

RAIL POST DETAILS

SECTION A-A

ALSO AT WINGWALL

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

RECORD ST. CHARLES ROAD BRIDGE PLAN – FOR INFORMATION ONLY							
SCALE: N.T.S.	SHEET 13	OF :	15 SHEETS	STA.	TO STA.		

D.C.N.

D.C.N.

6.M.

DATE

2-14-78

4-6-78

3-22-79

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.
1397	15-00094-00-BR	DUPAGE	106	84
	PROJECT:	JOB:	C-91-3	13-15
	TH INOIS			

TOTAL SHEET NO.

105

UNIT QUANT

LIN. FT. 264

DUPAGE

TO STA.

BILL OF MATERIAL

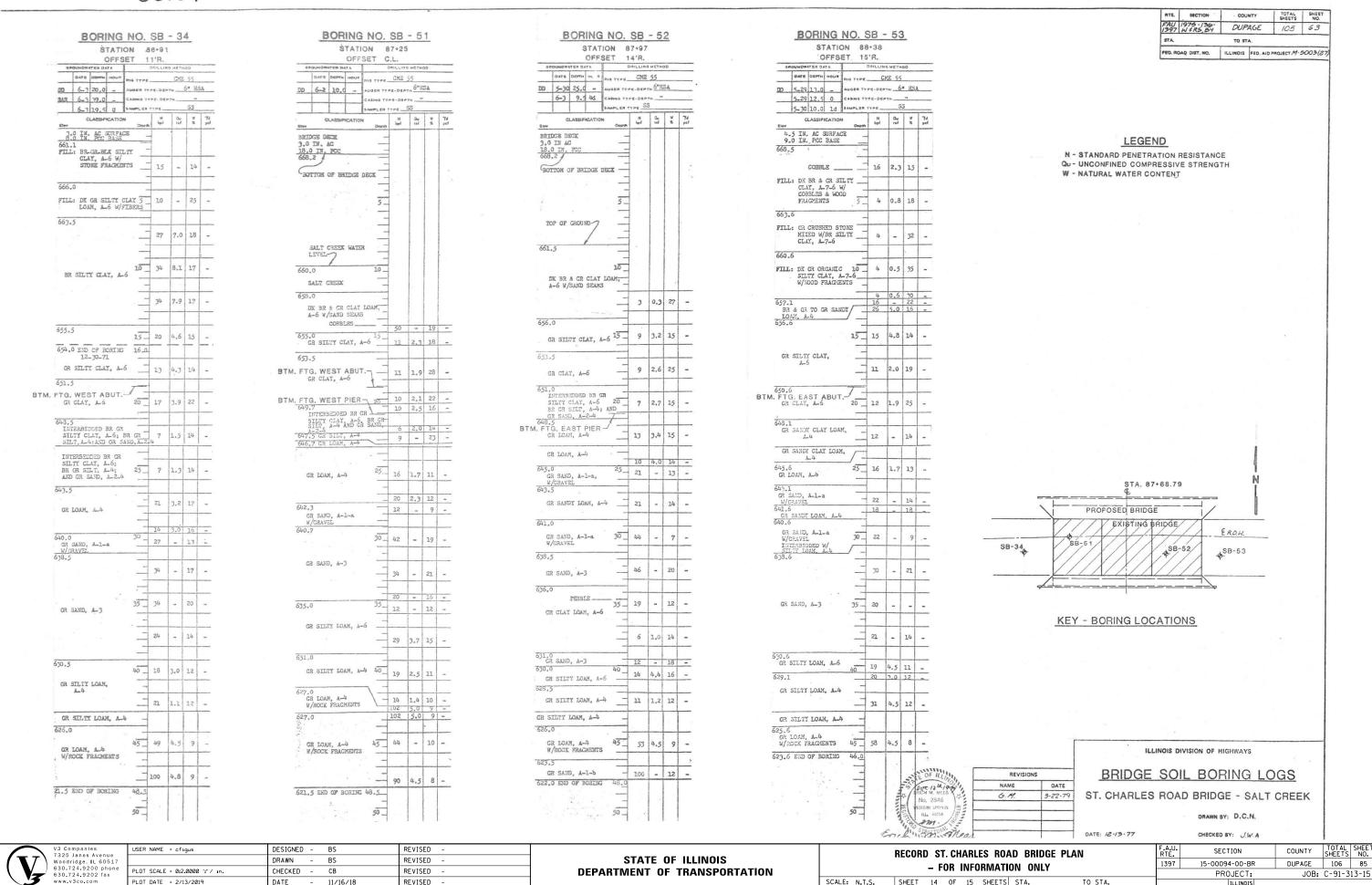
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PLOT DATE = 2/13/2019

DATE

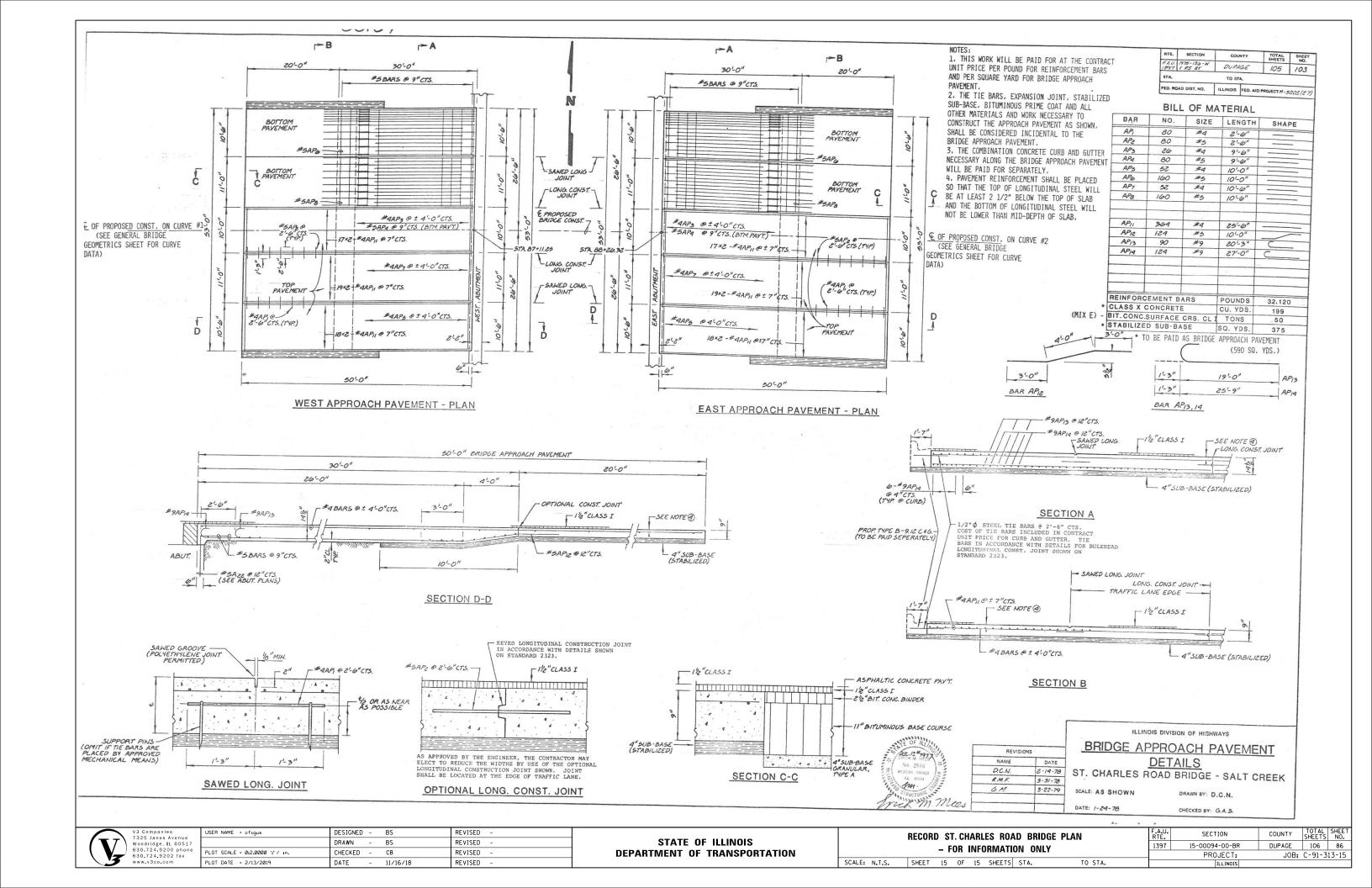
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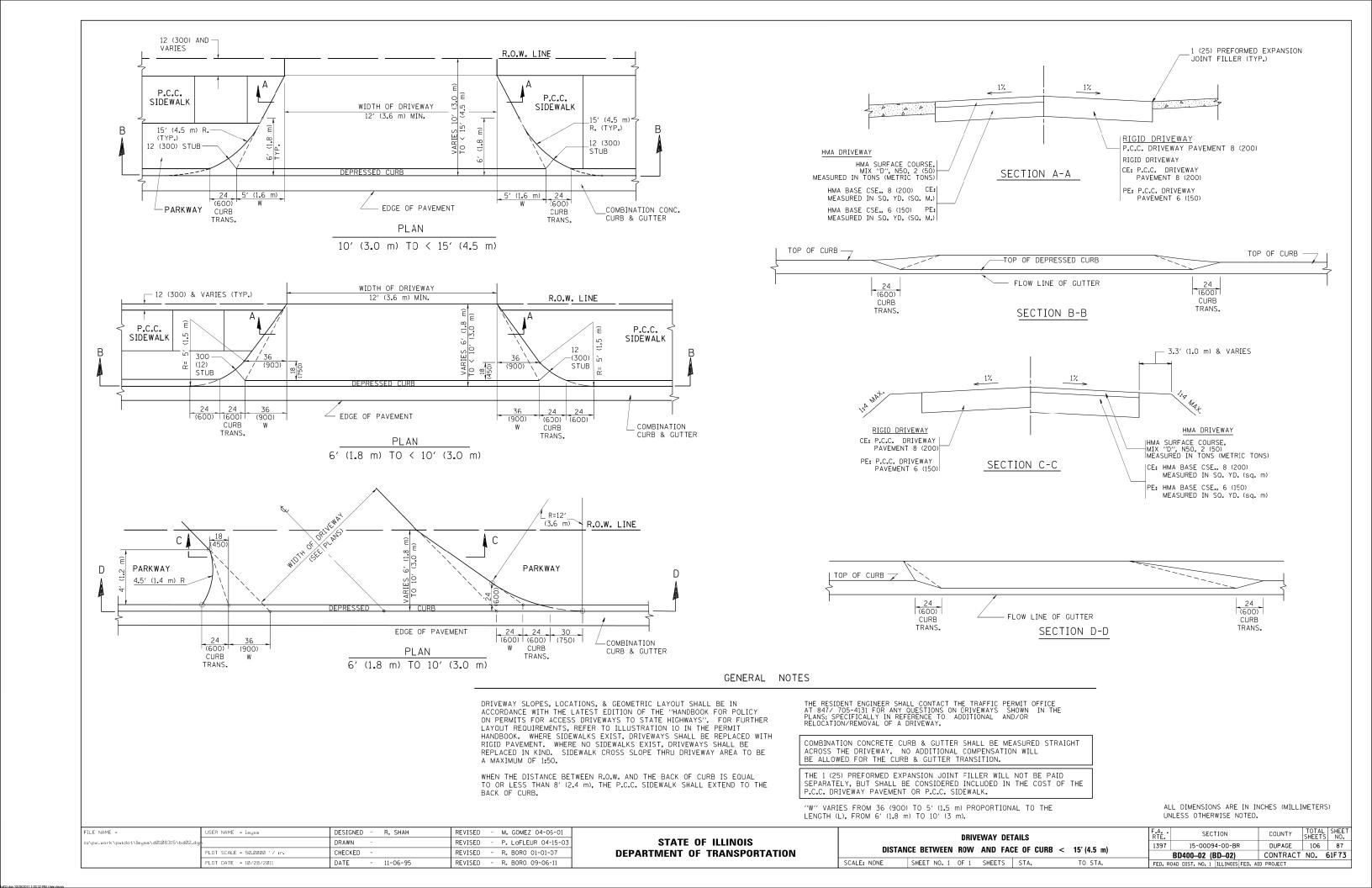
REVISED

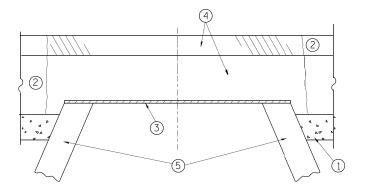


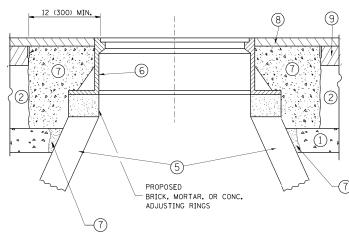
SCALE: N.T.S. SHEET 14 OF 15 SHEETS STA.

TO STA.









EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

SCALE: NONE

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.

 D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 11/2 (40)
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 11/2 (40 THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-1*
 CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING
 BASE COURSE OR THE BINDER COURSE.
- *UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE FNGINFFR."

LEGEND

- 1 SUB-BASE GRANULAR MATERIAL
- 6 FRAME AND LID (SEE NOTES)
- 2 EXISTING PAVEMENT

(5) EXISTING STRUCTURE

- (7) CLASS PP-1* CONCRETE
- 3 36 (900) DIAMETER METAL PLATE
- (8) PROFOSED HMA SURFACE COURSE
- PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- (9) PROPOSED HMA BINDER COURSE

LOCATION OF STRUCTURE

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON CCMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT:

REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."

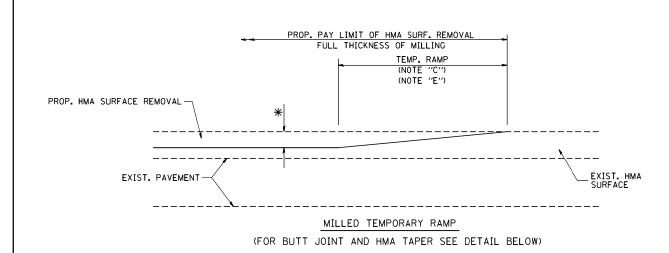
THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

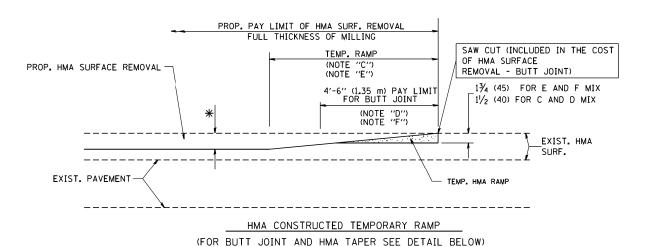
DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

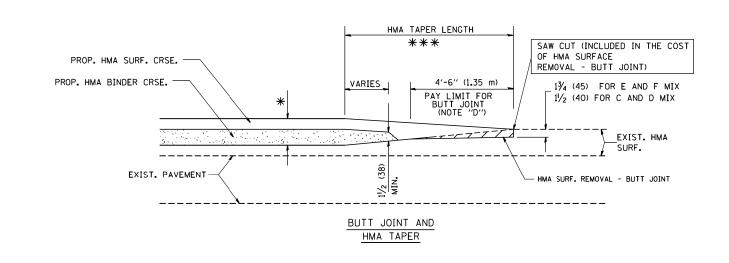
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



OPTION 1



OPTION 2 TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

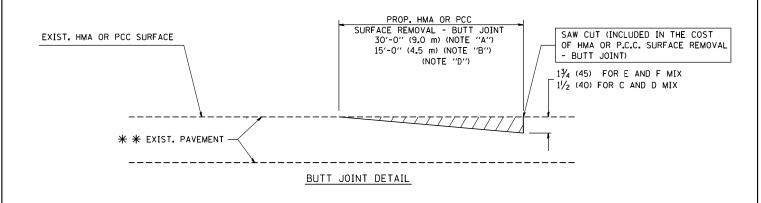
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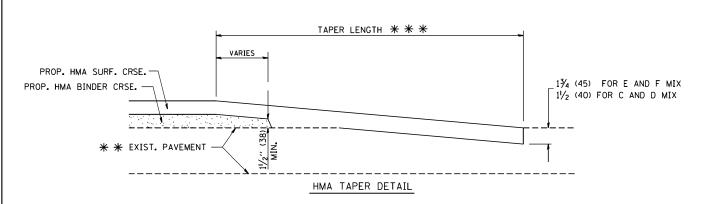
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PLOT DATE = 1/4/2008 DATE - 06-13-90 REVISED - R. BORO 01-01-07

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION





TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

* * PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

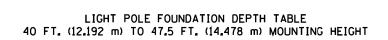
NOTES

- 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")

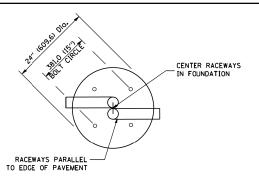
BASIS OF PAYMENT:

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.



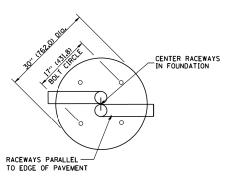
SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION				
SOIL CONDITIONS	SINGLE ARM POLE	TWIN ARM POLE			
SOFT CLAY	13'-0''	15'-0''			
Ou = 0.375 TON/SO. FT.	(3 ₋ 96 m)	(4.57 m)			
MEDIUM CLAY	9'-6''	10'-9''			
Ou = 0.75 TON/SO.FT	(2 . 09 m)	(3,23 m)			
STIFF CLAY Ou = 1.50 TON/SO. FT.	7'-0'' (2 . 13 m)	8'-0'' (2.44 m)			
LOOSE SAND	9'-0''	10'-0''			
Ø = 34°	(2.74 m)	(3 _e 05 m)			
MEDIUM SAND	8'-3''	9'-0''			
Ø = 37.5°	(2,52 m)	(2.74 m)			
DENSE SAND	7'-9''	9'-0''			
Ø = 40°	(2 . 36 m)	(2.74 m)			



ANCHOR ROD

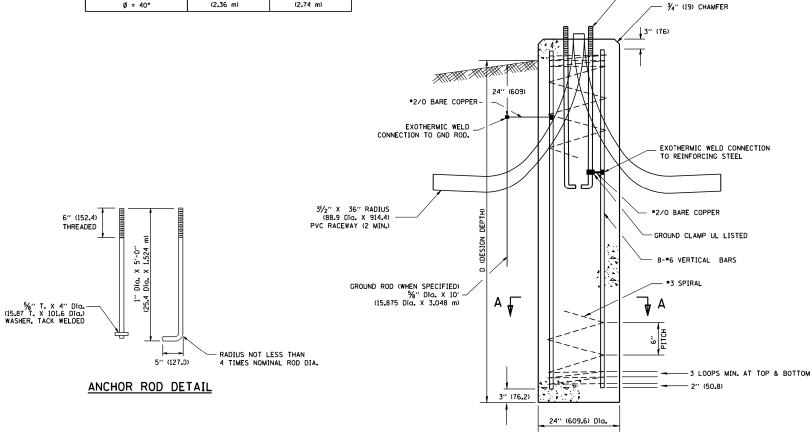
(4-25.4 Dia. X 1.524 m)

TOP VIEW

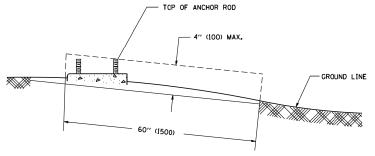


TOP VIEW

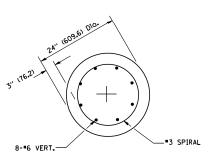
<u>TOP</u>



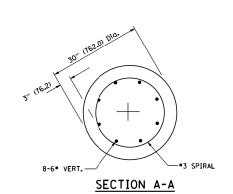




FOUNDATION EXTENSION DETAIL



SECTION A-A



NOTES

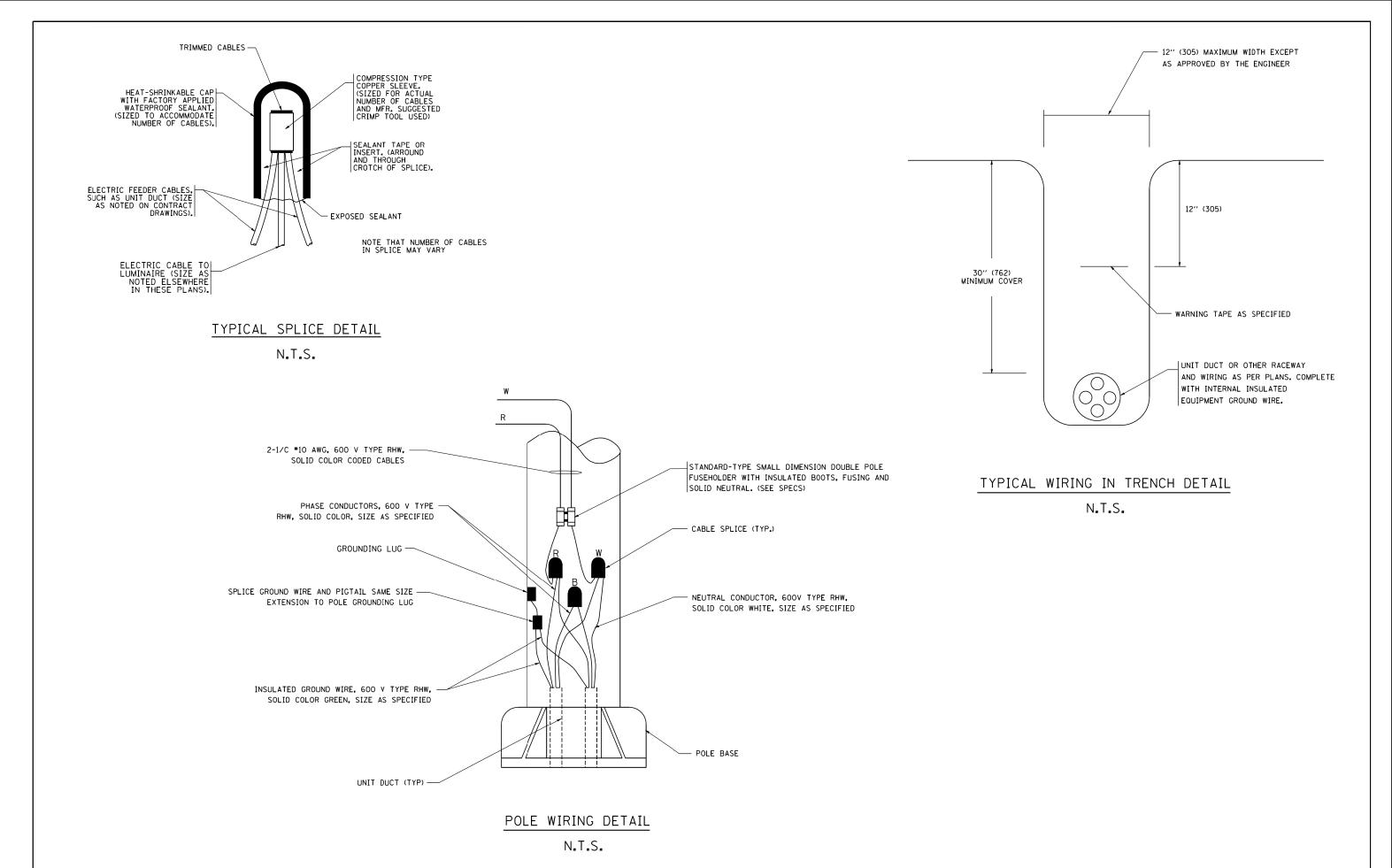
- 1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IN PLACED.
- 3. THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
- 4. THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
- 5. THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED ⅓-IN. (20 mm).
- THE CONCRETE SHALL BE CLASS SI. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
- 7. THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- 8. THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105), NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 435.
- 9. ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UM(6 MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
- 10. THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- 11. ANCHOR RODS SHALL PROJECT 2¾" (69.9 mm) ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
- 12. THE CONTRACTOR SHALL USE A *3 SPIRAL AT 6'' (152.4 mm) PITCH OR MAY SUBSTITUTE *3 TIES AT 12'' (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.
- 13. THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
- 14. THE RACEWAYS SHALL PROJECT I" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.

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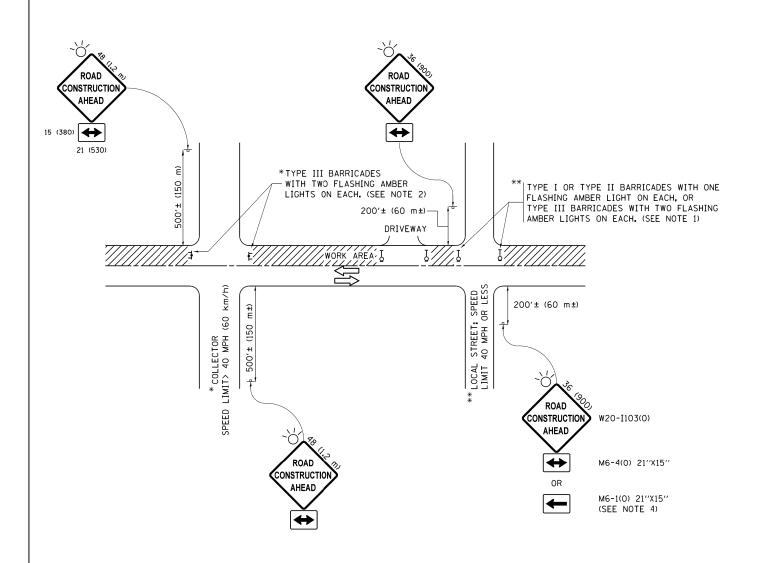
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PLOT DATE = 1/4/2008	DATE -	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

LIGHT POLE FOUNDATION				F.A RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
40' /12 1	40' (12.192 m) TO 47 1/2' (14.478 m) M.H. 15" (381 mm) BOLT CIRCLE			1397	15-00094-00-BR	DUPAGE	106	90
40 (12.1	40 (12.132 III) 10 47 VZ (14.476 III) W.A. 13 (301 IIIIII) BOLT GROLE				BE-301		NO.	61F73
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	EED BO	DAD DIST. NO. 1 THE INDIS FED. AT	D PROJECT		



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W:\diststd\22x34\be702.dgn		DRAWN -	REVISED -	STATE OF ILLINOIS					
	PLOT SCALE = 50.000 ' / [N.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION					CONTRACT NO. 61F73
	PLOT DATE = 1/4/2008	DATE -	REVISED -				FED. ROAI		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:
 - d) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER 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 \times 48 (1.2 m \times 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. 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
- 4. 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).

SCALE: NONE

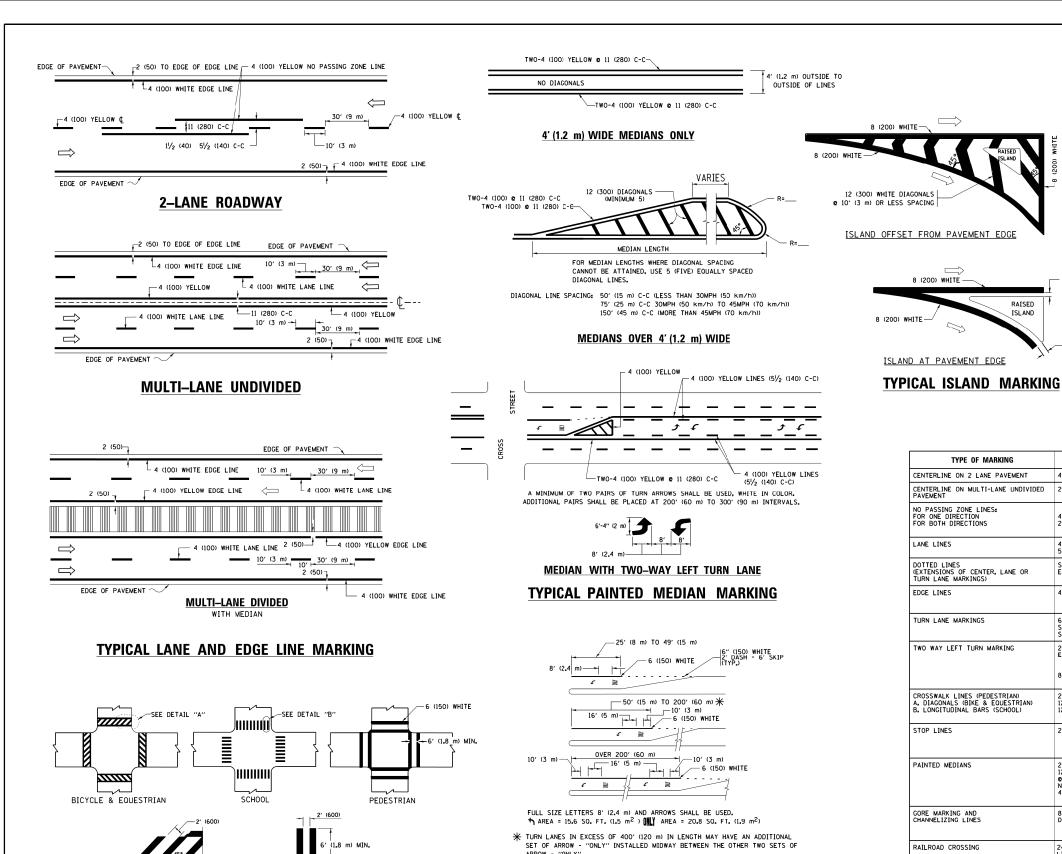
- 5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- 6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER
- 7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

FILE NAME =	USER NAME = footemj	DESIGNED - L.H.A.	REVISED	- A. HOUSEH 10-15-96
pw:\\ILØ84EBIDINTEG.1ll1no1s.gov:PWIDOT\Do	cuments\IDOT Offices\District 1\Projects\Dist	D DRAWN \CADData\CADsheets\tc10.dgn	REVISED	-T. RAMMACHER 01-06-00
	PLOT SCALE = 50.000 '/ in.	CHECKED -	REVISED	- A. SCHUETZE 07-01-13
Default	PLOT DATE = 9/15/2016	DATE - 06-89	REVISED	- A. SCHUETZE 09-15-16

STATE	OF ILLINOIS
DEPARTMENT O	F TRANSPORTATION

	TRAFFIC CONTROL AND PROTECTION FOR					SECTION
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS				1397	15-00094-00-BR	
SIDE NUADS, INTENSECTIONS, AND DRIVEWAYS						TC-10
	SHEET 1	OF 1	SHEETS STA.	TO STA.		ILL INOIS



TYPICAL LEFT (OR RIGHT) TURN LANE TYPICAL TURN LANE MARKING

6'-4" (1930) D(FT) SPEED LIMIT 345 30 425 500 580 665 50 750 40 (1020) 64 (1620) **COMBINATION** LEFT AND U-TURN 5'-4" (1620) √ 32 R (810) LANE REDUCTION TRANSITION * LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 1280) 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 MEDIANS IN YELLOW
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	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 e 6 (150) 12 (300) e 45° 12 (300) e 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" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SO, FT. (0.33 m²) EACH "X"=54.0 SO. FT. (5.0 m²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS > 8')	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) T0 45MPH (70 km/h)) 150' (45 m) C-C (0VER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

U-TURN

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

8 (200) WHITE -

— 2 (50)

2 (50)

RAISED

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

FILE NAME =	USER NAME = leysa	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09
W:\diststd\22x34\tcl3.dgn		DRAWN -	REVISED - C. JUCIUS 07-01-13
	PLOT SCALE = 50.000 '/ in.	CHECKED -	REVISED - C. JUCIUS 12-21-15
Default	PLOT DATE = 6/23/2017	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16

TYPICAL CROSSWALK MARKING

 $\ensuremath{\boldsymbol{\#}}$ markings shall be installed parallel to the centerline of the road which it crosses

─12 (300) WHITE

DETAIL "B"

6 (150) WHITE

DETAIL "A"

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

			DIST	RICT ON	NE		F.A. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
	TVP	ICAI	ΡΔΛ	EMENT	MARKING	9	1397	15-00094-00-BR	DUPAGE	106	93
		IUAL	1 7	LIVILIAI	IVIAIIKIIVU	13		TC-13	CONTRACT	NO.	61F73
SCALE: NONE	SHEET 1	OF	1	SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

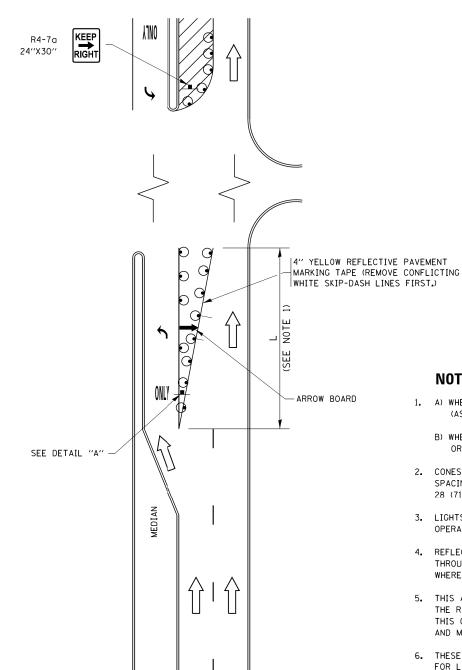
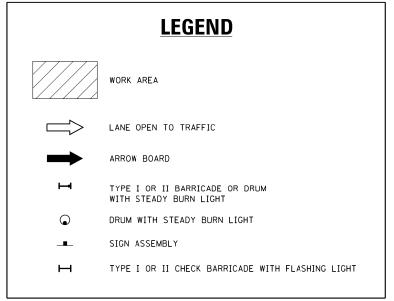


FIGURE 1

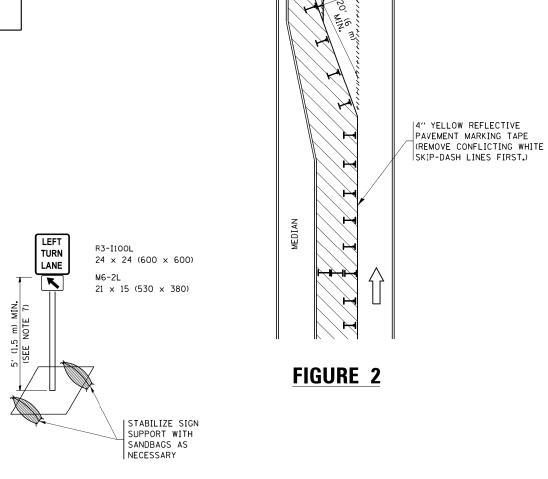
WITHIN A LANE CLOSURE

TURN BAY ENTRANCE



NOTES:

- 1. A) WHEN "L" IS < THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
 - B) WHEN "L" IS > THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE. USE FIGURE 2.
- 2. 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.
- 3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
- 4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
- 5. 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-I100R 24 x 24 (600 x 600) AND M6-2R 21 \times 15 (530 \times 380) SHALL BE USED.
- 6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
- 7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH PREQUIREMENTS.
- 8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.



CONFLICTING

PAVEMENT MARKING REMOVAL (TYP.)

DETAIL A

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

94

SEE DETAIL "A"

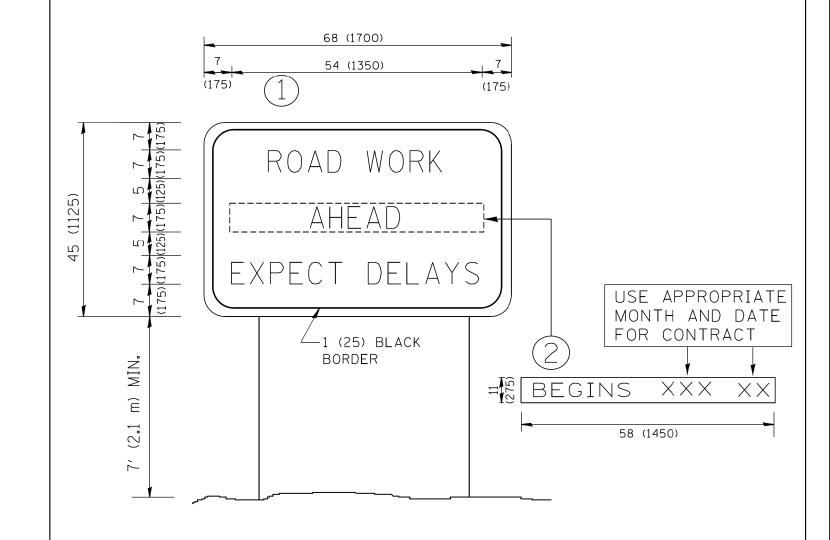
6" WHITE REFLECTIVE

PAVEMENT MARKING TAPE

FILE NAME =	USER NAME	= footemj	KENIZED	-1.	RAMMACHER	09-08-94	KEAIZED	-	K. BOKO	09-14-09
pw:\\ILØ84EBIDINTEG.1ll1no1s.gov:PWIDOT\Do	cuments\IDOT	Offices\District 1\Projects\Dis	BEXISED	ADData	∖CAQsH HQUSEH	14 18907-9 5	REVISED	- A	. SCHUETZ	07-01-1
	PLOT SCALE	= 50.0000 '/ in.	REVISED	-	A. HOUSEH	10-12-96	REVISED	- A	. SCHUETZ	09-15-16
Default	PLOT DATE	= 9/15/2016	REVISED	- T.	RAMMACHER	01-06-00	REVISED	-		

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

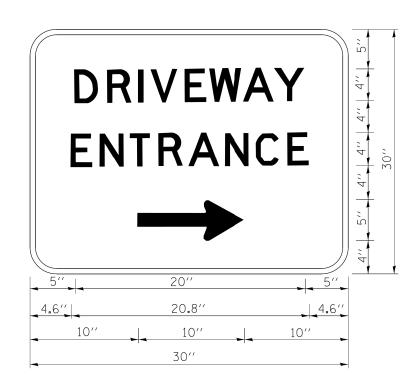
1	TRAFI	FIC CONT	ROL AND	PROTEC	CTION AT	T TURN BAYS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SI
I		(T0	REMAIN	OPEN 1	TN TRAFI	FIC)	1397	15-00094-00-BR	DUPAGE	106	
I		(10	ILLIVIPATIV	OI LIV	IO IIIAII	110,		TC-14	CONTRACT	NO. 6	61F
ı	SCALE: NONE	SHEET 1	OF 1	SHEETS	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		



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

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

FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED - R. MIRS 09-15-97		ARTERIAL ROAD	F	F.A	SECTION	COUNTY	TOTAL	SHEET
W:\diststd\22x34\tc22.dgn		DRAWN -	REVISED - R. MIRS 12-11-97	STATE OF ILLINOIS		F	1397	15-00094-00-BR	DUPAGE	106	95
	PLOT SCALE = 50.000 ' / [N.	CHECKED -	REVISED -T. RAMMACHER 02-02-99	DEPARTMENT OF TRANSPORTATION	INFORMATION SIGN			TC-22	CONTRACT	NO. f	ō1F73
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO S	STA.	FED. ROAD I	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 =	USER NAME = gaglianobt	DESIGNED -	REVISED - C. JUCIUS 02-15-07
c:\pw_work\pwidot\gaglianobt\d0108315\tc	26.dgn	DRAWN -	REVISED -
	PLOT SCALE = 50.000 '/ in.	CHECKED -	REVISED -
	PLOT DATE = 12/13/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I		DRIVEWAY ENTRA	NCE SIGNIN	IG	F.A RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ı					1397	15-00094-00-BR	DUPAGE	106	96
I						TC-26	CONTRACT	NO.	61F 73
	SCALE: NONE	SHEET NO. 1 OF 1 SHEET:	STA.	TO STA.	FED. RO	DAD DIST. NO. 1 ILLINOIS FED. A	D PROJECT		

TRAFFIC SIGNAL LEGEND

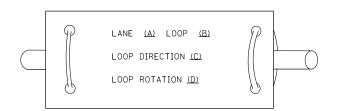
(NOT TO SCALE)

25.dgn fault	PLOT SCALE = 50.0000 '/ 10 PLOT DATE = 9/29/2016	DRAWN - CHECKED -	IP REVISED		ATE OF ILLINOIS NT OF TRANSPORTATION		DISTRICT ONE ANDARD TRAFFIC SIGNAL DESIGN DETAILS SHEET 1 OF 7 SHEETS STA. TO STA.	1397 15-00094- TS-05	
E NAME =	USER NAME = leyse	DESIGNED -	IP REVISED	-			DISTRICT ONE	F.A. SECTION	ON COUNTY TOTAL SH
VIRELESS INTERCONNECT RAI	DIO REPEATER	ERR	RR						
IRELESS INTERCONNECT		○+ 	•+ 						
ONFIMATION BEACON		O()	•						
MERGENCY VEHICLE LIGHT D	DETECTOR	\bowtie	~	WIRELESS ACCESS POINT					
AN, TILT, ZOOM (PTZ) CAME	ERA	PTZ	PTZ	WIRELESS DETECTOR SENSOR	(W)	@	-(P) POST -(S) SERVICE		
ADAR/VIDEO DETECTION ZON	NE			QUEUE AND SAMPLING (SYSTEM) DETECTOR	[<u>0</u> 5] (<u>0</u> 5)	os os	GROUND ROD -(C) CONTROLLER -(M) MAST ARM		$\frac{\dot{\underline{}}^{C}}{\dot{\overline{}}}^{C} \dot{\underline{}}^{M} \dot{\underline{}}^{P} \dot{\underline{}}^{S}$
IDEO DETECTION CAMERA		(V)	V	INTERSECTION AND SAMPLING (SYSTEM) DETECTOR	$[\underline{IS}]$ (\underline{IS})	IS (IS)	CROUND POD	C H D C	C 44 5 C
ADAR DETECTION SENSOR		R 1	R ■	SAMPLING (SYSTEM) DETECTOR	$[\underline{s}]$ (\underline{s})	s s			—(36F)—
PEDESTRIAN PUSH BUTTON (APS) ACCESSIBLE PEDESTRI	IAN PUSH BUTTON			PREFORMED DETECTOR LOOP	[P] (P)	P P	-NO. 62.5/125, MM12F SM24F		
EDESTRIAN SIGNAL HEAD		-[]	-1	DETECTOR LOOP, TYPE I			FIBER OPTIC CABLE -NO. 62,5/125, MM12F -NO. 62,5/125, MM12F SM12F		—(12F)—
		ops ops FS	₽ F ₽FS	SIGNAL POST AND FOUNDATION TO BE REMOVED		RPF	NO. 18, 3 PAIR TWISTED, SHIELDED	6#18	<u></u>
LASHER INSTALLATION FS) SOLAR POWERED		of of	•► FS	FOUNDATION TO BE REMOVED		RMF	COPPER INTERCONNECT CABLE,		
IGNAL HEAD OPTICALLY PRO	OGRAMMED		→ P + → P	FOUNDATION TO BE REMOVED MAST ARM POLE AND			VENDOR CABLE		
IGNAL HEAD WITH BACKPLAT	ΓE	+t>	+►	CONTROLLER CABINET AND		RCF	COAXIAL CABLE	<u></u>	<u> </u>
IGNAL HEAD		<i>→</i>	→	RELOCATE ITEM ABANDON ITEM		RL A	ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C		
UY WIRE		⊗ —	₩ >-	REMOVE ITEM		R	GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)	- 1 #6	(1#6)
JGNAL POST (BM) BARREL MOUNTED - TE JOOD POLE	MPORARY	∘ ⊗	● BM	SYSTEM ITEM INTERSECTION ITEM	S	SP IP	NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED		
STEEL COMBINATION MAST A ASSEMBLY AND POLE WITH L		o-jX—	◆※	TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE			"NO LEFT TURN"/"NO RIGHT TURN"		
LUMINUM WAST ARM ASSEME				GALVANIZED STEEL			ILLUMINATED SIGN		
STEEL MAST ARM ASSEMBLY	AND POLE	O	•——	RAILROAD CONTROLLER CABINET UNDERGROUND CONDUIT (UC),		> <€	PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER	© C D	₩ C ⊀ D
ELEPHONE CONNECTION		ET	T	RAILROAD CROSSBUCK	<i>₹</i>	*	AT RAILROAD INTERSECTIONS		
G) GROUND MOUNTED (GM) GROUND MOUNTED METE	ERED	$\boxtimes^{G} \boxtimes^{GM}$	⊠ ^G ⊠ ^{GM}	RAILROAD CROSSING GATE	X OX >	X•X	PEDESTRIAN SIGNAL HEAD	()	*
(P) POLE MOUNTED ERVICE INSTALLATION			_	RAILROAD FLASHING SIGNAL	∑⊙ ∑	X+X		P RB	P RB
ERVICE INSTALLATION		- <u></u> -	- -P	RAILROAD CANTILEVER MAST ARM	X OZ X	X eX X X	-IND/ NETNONEFEEGTIVE BACKFEATE		G G G 4Y 4Y 4G 4G
NINTERRUPTABLE POWER SU	PPLY	4	Ø	JUNCTION BOX		0	SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE	R R Y	R R Y
ASTER MASTER CONTROLLEF	₹	ЕммС	ммс	DOUBLE HANDHOLE				P	P
OMMUNICATION CABINET ASTER CONTROLLER		ECC	СС	HEAVY DUTY HANDHOLE -SOUARE -ROUND	H (H)	H B			R R Y Y G G G G G G G G G G G G G G G G
ONTROLLER CABINET				-SQUARE -ROUND			SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD	RRY	R R Y
<u>EM</u>		EXISTING	PROPOSED	ITEM HANDHOLE	<u>EXISTING</u>	<u>PROPOSED</u>	ITEM	EXISTING	<u>PROPOSED</u>

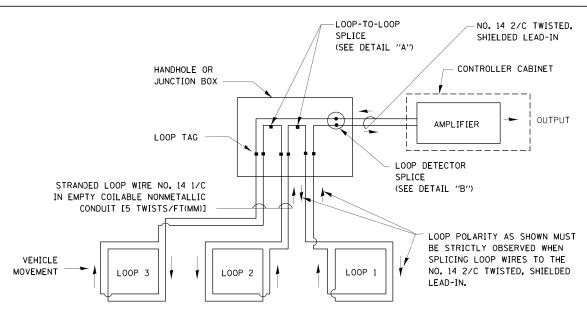
LOOP DETECTOR NOTES

- 1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE, SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT 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

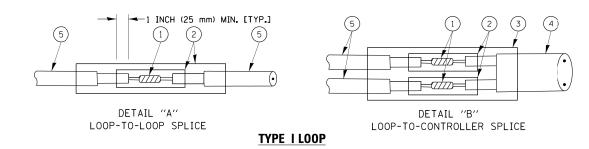


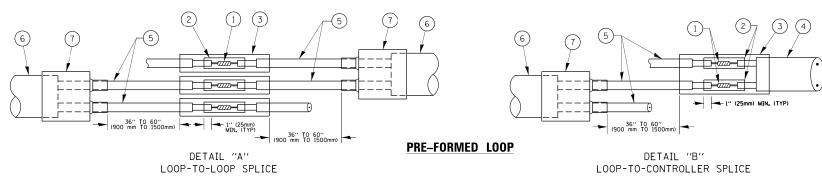
- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP *1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



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.





LOOP DETECTOR SPLICE

- 1 WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- (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.

SCALE: NONE

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

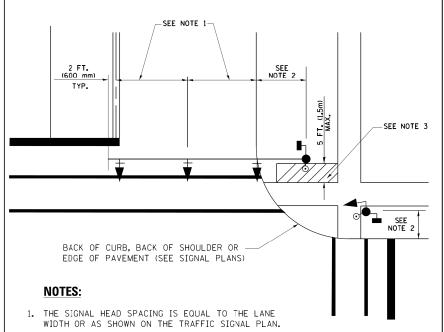
- (5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- 6 PRE-FORMED LOOP
- 7 XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

١	FILE NAME =	USER NAME = footemj	DESIGNED	-	DAD	REVISED	-	DAG 1-1-14
١	c:\pw_work\pwidot\footemj\d0108315\ts05.	dgn	DRAWN	-	BCK	REVISED	-	
١		PLOT SCALE = 50.0000 '/ in.	CHECKED	-	DAD	REVISED	-	
١		PLOT DATE = 1/13/2014	DATE	-	10-28-09	REVISED	-	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	DIS	TRICT ON	IE			F.A RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STANDARD	TDACCI	C CICMAI	DESIGN	DETAILS		1397	15-00094-00-BR	DUPAGE	106	98
STANDARD	INAFFI	JOINAL	DESIGN	DETAILS			TS-05	CONTRACT	NO.	61F 73
SHEET NO. 2	OF 7	SHEETS	STA.	TO	STA.	FED. RC	DAD DIST. NO. 1 ILLINOIS FED. A	ID PROJECT		

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALKBICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.

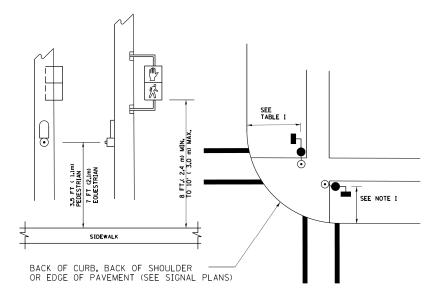


- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- 3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
- 4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
- 5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES,"

NOTES:

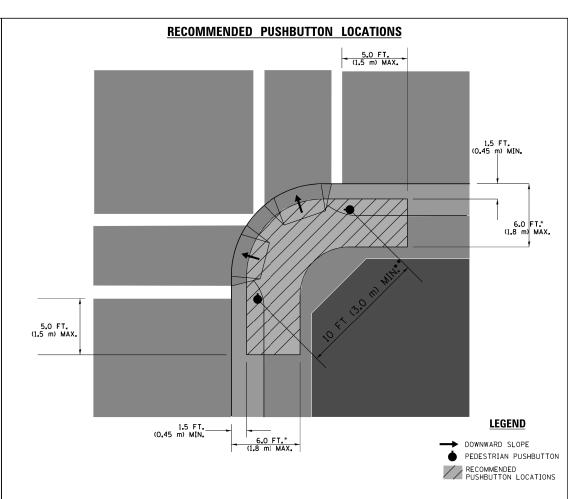
- 1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2,4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
- 2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
- 3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
- 4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
- 5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

- 1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- 2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
- 3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
- 4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR



- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- •• WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

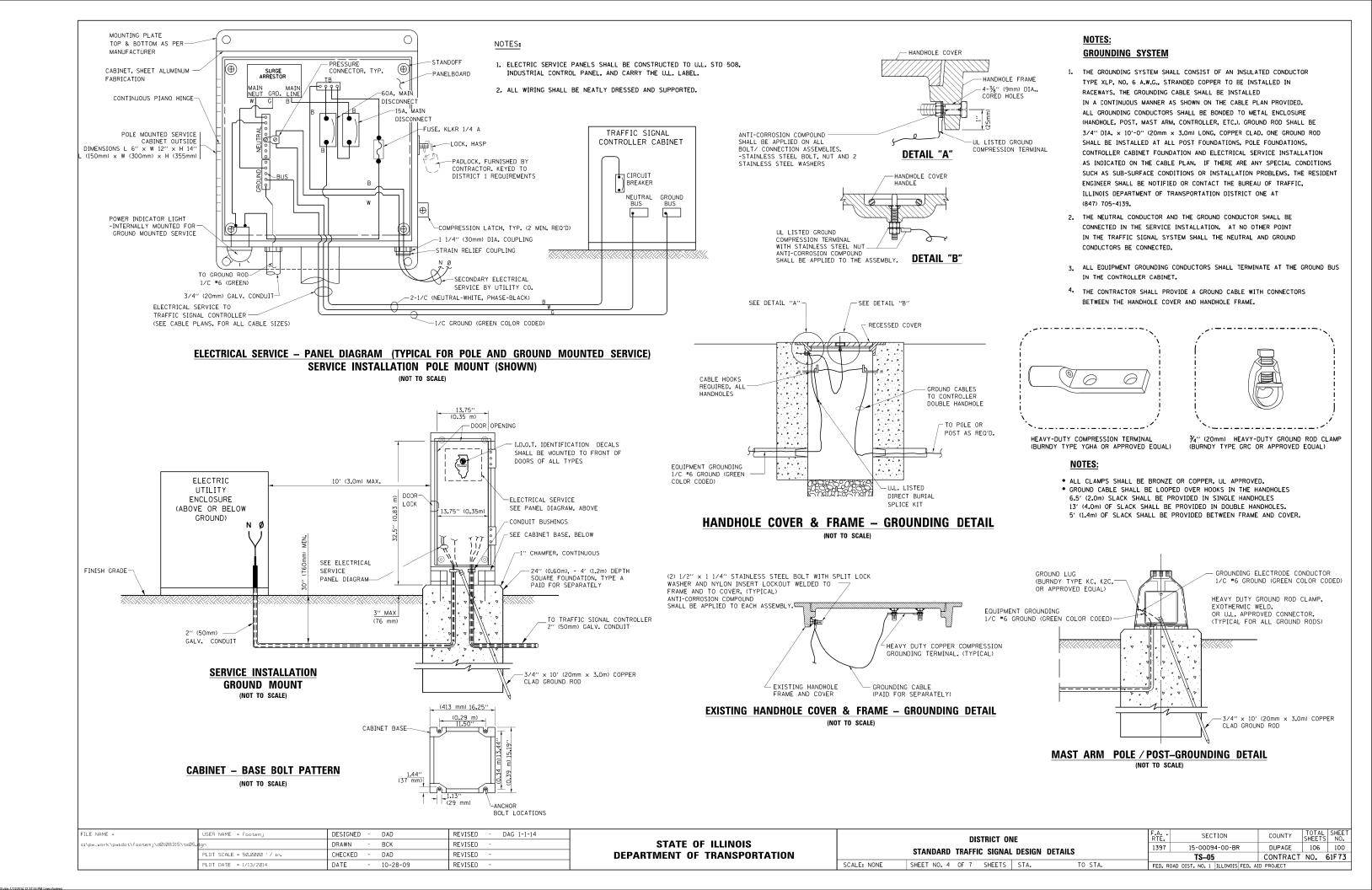
TRAFFIC SIGNAL EQUIPMENT OFFSET

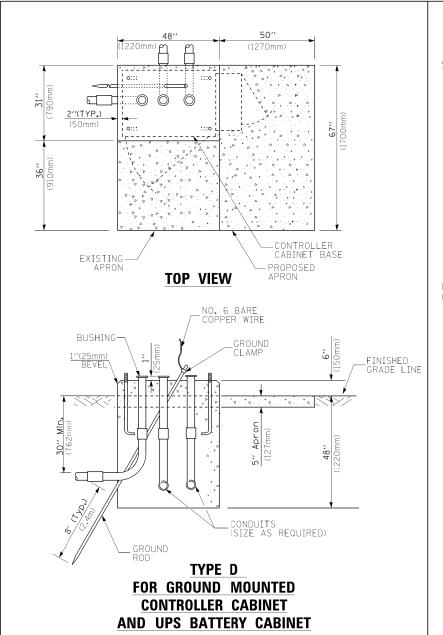
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

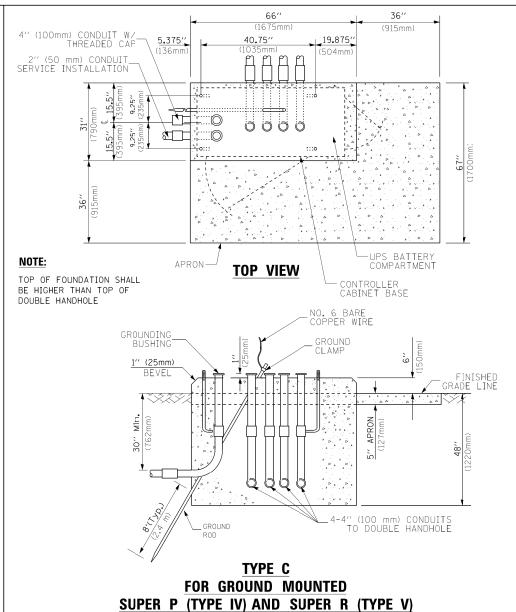
NOTES:

- 1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
- 2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
- 3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TOTHE ROADWAY SIDE OF THE FOUNDATION.
- 4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

DESIGNED -DAD REVISED DAG 1-1-14 ISER NAME = footem SECTION COUNTY DISTRICT ONE STATE OF ILLINOIS :\pw_work\pwidot\footemj\d0108315\ts ORAWN BCK REVISED 1397 15-00094-00-BR DUPAGE 106 STANDARD TRAFFIC SIGNAL DESIGN DETAILS CHECKED DAD REVISED **DEPARTMENT OF TRANSPORTATION** TS-05 CONTRACT NO. 61F73 SCALE: NONE SHEET NO. 3 OF 7 SHEETS STA. TO STA. DATE 10-28-09 REVISED FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT







CONTROLLER CABINETS

<u></u>		===-1.
31", (787mm) (51mm) (560mm)	21/2" (64mm) 1" (25mm)	2" × 6" (51mm × 152mm) WOOD FRAMING (TYP.)
TRAFFIC SIGNA CONTROLLER CABINE		UPS
2" x 6" (51mm x 152mm) TREATED VIEW 150 NOOD VIEW		CABINET
(1219mm) (1219mm) (1219mm) (1219mm)		
NOTES: TREATED WOOD POSTS 1. BASED ON CONTROLLER CABINET TYPE IV WADJUST PLATFORM SIZE TO FIT CABINET BASED ON UNINTERRUPTIBLE POWER SUPPLY ADJUST PLATFORM SIZE TO FIT CABINET BASED ON UNINTERRUPTIBLE POWER SUPPLY ADJUST PLATFORM SIZE TO FIT CABINET BASED ON UNINTERRUPTIBLE POWER SUPPLY ADJUST PLATFORM SIZE TO FIT CABINET BASED ON UNINTERRUPTIBLE POWER SUPPLY ADJUST PLATFORM SIZE TO FIT CABINET BASED ON UNINTERRUPTIBLE POWER SUPPLY ADJUST PLATFORM SIZE TO FIT CABINET BASED ON UNINTERRUPTIBLE POWER SUPPLY ADJUST PLATFORM SIZE TO FIT CABINET BASED ON UNINTERRUPTIBLE POWER SUPPLY ADJUST PLATFORM SIZE TO FIT CABINET BASED ON UNINTERRUPTIBLE POWER SUPPLY ADJUST PLATFORM SIZE TO FIT CABINET BASED ON UNINTERRUPTIBLE POWER SUPPLY ADJUST PLATFORM SIZE TO FIT CABINET BASED ON UNINTERRUPTIBLE POWER SUPPLY ADJUST PLATFORM SIZE TO FIT CABINET BASED ON UNINTERRUPTIBLE POWER SUPPLY ADJUST PLATFORM SIZE TO FIT CABINET BASED ON UNINTERRUPTIBLE POWER SUPPLY ADJUST PLATFORM SIZE TO FIT CABINET BASED ON UNINTERRUPTIBLE POWER SUPPLY ADJUST PLATFORM SIZE TO FIT CABINET BASED ON UNINTERRUPTIBLE POWER SUPPLY ADJUST PLATFORM SIZE TO FIT CABINET BASED ON UNINTERRUPTIBLE POWER SUPPLY ADJUST PLATFORM SIZE TO FIT CABINET BASED ON UNINTERRUPTIBLE POWER SUPPLY ADJUST PLATFORM SIZE TO FIT CABINET BASED ON UNINTERRUPTIBLE POWER SUPPLY ADJUST PLATFORM SIZE TO FIT CABINET BASED ON UNINTERRUPTIBLE POWER SUPPLY ADJUST PLATFORM SIZE TO FIT CABINET BASED ON UNINTERRUPTIBLE POWER SUPPLY ADJUST PLATFORM SIZE TO FIT CABINET BASED ON UNINTERRUPTIBLE POWER SUPPLY ADJUST PLATFORM SIZE TO FIT CABINET BASED ON UNINTERRUPTIBLE POWER SUPPLY SUPPL	CABINET WITH BASE DIMENSIONS	
7 DI LIFERDIA CATE FOR CONTROLLER CARNIET	TVDE TV	

65" (SEE NOTE 4) (1651mm)

SEE NOTE 5-

- 3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
- 4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
- 5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
- 6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

TEMPORARY SIGNAL CONTROLLER WOOD SUPPORT PLATFORM

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD)		
(L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

CABLE SLACK		

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m
TYPE D - CONTROLLER	4'-0" (1.2m
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0'' (1.2m

DEPTH OF FOUNDATION

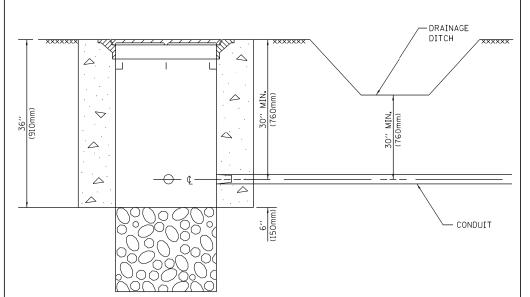
Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30′ (9.1 m)	10'-0'' (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
30' (9.1 m) and less than 40' (12.2 m)	11'-0'' (3.4 m)	36'' (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0'' (4 _• 0 m)	36" (900mm)	30'' (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	15'-0'' (4.6 m)	36'' (900mm)	30'' (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0'' (6.4 m)	42'' (1060mm)	36'' (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0'' (7 . 6 m)	42'' (1060mm)	36'' (900mm)	16	8(25)

NOTES:

- 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) > 1.0 tsf (100 kpa).
 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. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
- 3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations
- 4. For mast arm assemblies with dual arms refer to state standard 878001..

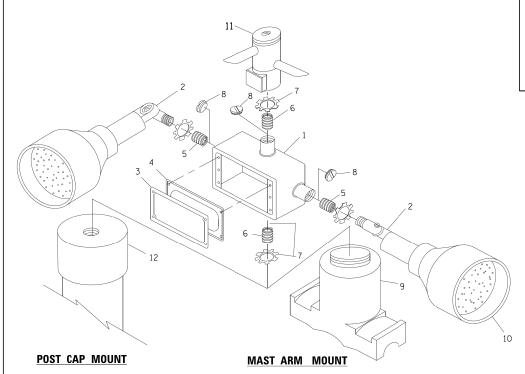
DEPTH OF MAST ARM FOUNDATIONS, TYPE E

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		PLOT SCALE = 50.0000 ' / in.	CHECKED - DAD	REVISED -	DEPARTMENT OF TRANSPORTATION		STANDARD TRAFFIC SIGNAL DESIGN DETAILS			TS-05	CONTRACT NO	NO. 61F73
		PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -		SCALE: NONE	SHEET NO. 5 OF 7 SHEETS STA. TO	STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FED. AI		



- 1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
- 2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
- 3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

HANDHOLE WITH MINIMUM CONDUIT DEPTH (NOT TO SCALE)



EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

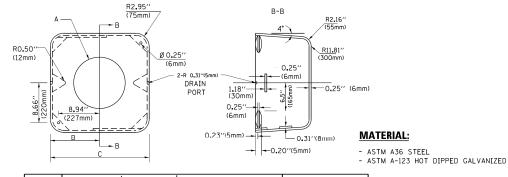
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	PLOT DATE = 1/13/2014	DATE -		10-28-09	REVISED	-		

(1675mm) 19.875" 5.375" 40.75" (136mm (1035mm) (504mm 0 PROPOSED APRON CONTROLLER CABINET BASE **TOP VIEW** NO. 3 DOWEL 18" (450mm) LONG (8 REQ.) BUSHING -_GROUND CLAMP / EXISTING ANCHOR BOLTS BEVEL -EXISTING CONDUITS EXISTING GROUND ROD MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION (NOT TO SCALE)

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 BUSHINS 6 ½ "(19 mm) CLOSE NIPPLE 7 ½ "(19 mm) LOCKNUT 8 ½ "(19 mm) HOLE PLUG 9 SADDLE BRACKET - GALV. 10 6 WATT PAR 38 LED FLOOD LAMP 11 DETECTOR UNIT 12 POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

- 1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR
- 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 3/4 "(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.

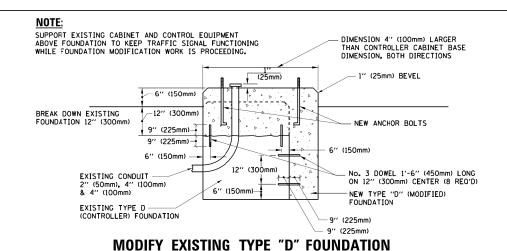


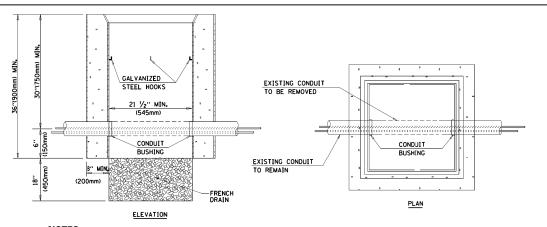
Α	В	С	HEIGHT	WEIGHT
VARIES	9.5′′(241mm)	19''(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm) 21.5"(546mm)		7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26''(660mm)	7'' (178mm) - 12'' (300mm)	81 lbs (37 kg)
VARIES	18 . 5''(470mm)	37''(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

SHROUD

NOTES:

- DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD.
 THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
- 2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
- 3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NJTS AND MAST ARM POLE BASE.



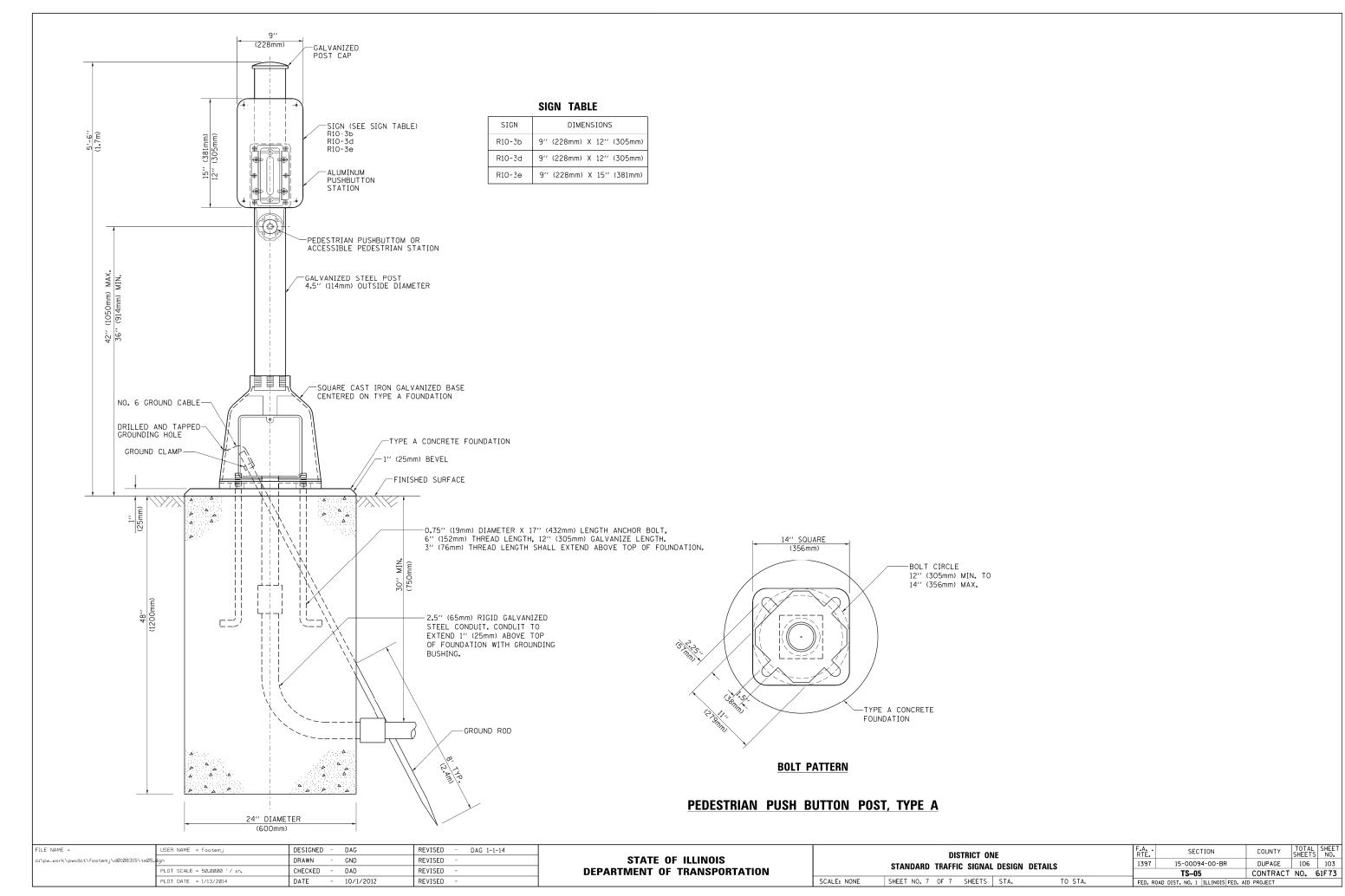


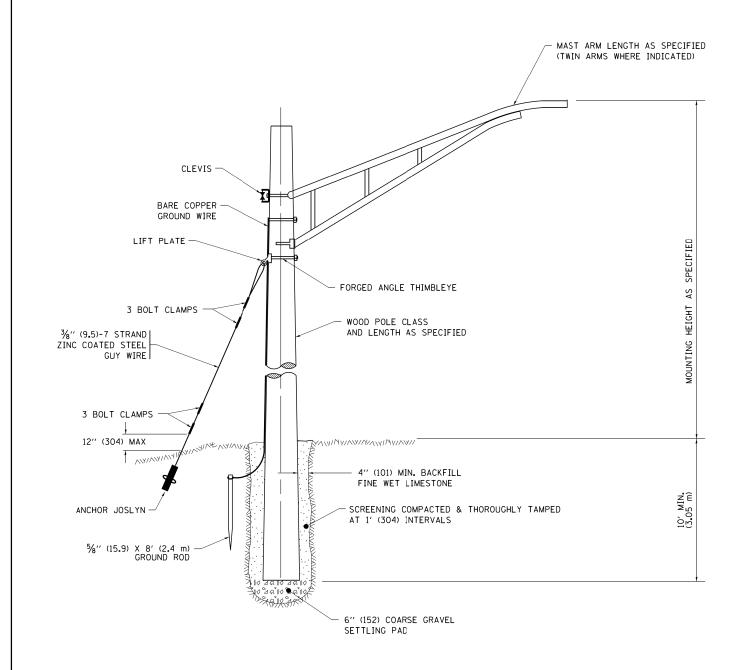
NOTES:

- 1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- 2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

OTATE OF HUMOIO	·		DIS	TRICT ON	IE		F.A RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STATE OF ILLINOIS	STANDARD TRAFFIC SIGNAL DESIGN DETAILS						1397	15-00094-00-BR	DUPAGE	106	102
DEPARTMENT OF TRANSPORTATION		STANDAND	IIIAIII		DESIGN I			TS-05	CONTRACT	NO.	61F 73
	SCALE: NONE	SHEET NO. 6	OF 7	SHEETS	STA.	TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FED.	AID PROJECT		





TEMPORARY LIGHT POLE DETAIL

MESSENGER TIED TO INSULATOR WITH FACTORY FORMED CABLE TIE GROUND CLAMP AWG BARE COPPER GROUND WIRE WATERPROOF INSULATION PIERCING TAP CONNECTOR WATERPROOF FUSEHOLDER & FUSE WATERPROOF FUSEHOLDER AND SOLID NEUTRAL SLUG

TEMPORARY LIGHT POLE ATTACHMENT DETAIL

NOTE

- 1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
- 2. MAST ARM SHALL BE RATED FOR THE SPECIFIED MOUNTING HEIGHT.

Γ	ILE NAME =	USER NAME = footemj	DESIGNED -	REVISED - 08-08-03			TEMPORARY LIGHT POLE DETAILS	•	F.A.	SECTION	COUNTY	TOTAL SHEET NO.
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		PLOT SCALE = 50.000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION				1001	BE-800	CONTRACT	
- 1	lefault	PLOT DATE = 9/1/2016	DATE -	REVISED -		SCALE: NONE	SHEET 1 OF 1 SHEETS STA.	TO STA.			ID PROJECT	

