

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2689	22-00056-00-SW	COOK	17	1
		ILLINOIS	CONTRACT NO. 61J42	

06-16-2023 LETTING ITEM 004

FOR INDEX OF SHEETS, SEE SHEET NO. 2

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
**PLANS FOR PROPOSED
FEDERAL AID HIGHWAY**

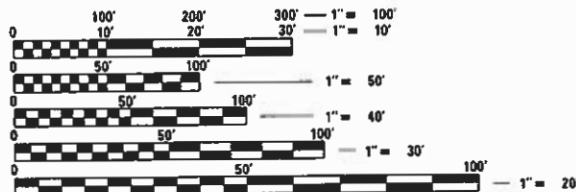
FAU 2689 (WOLF ROAD)
WOLF ROAD PEDESTRIAN CROSSING IMPROVEMENT PROJECT
SECTION 22-00056-00-SW
PROJECT NO. 3BP6(952)
VILLAGE OF BURR RIDGE
COOK COUNTY
C-91-121-23



SCHAUMBURG, IL

FEDERAL AID PROGRAM ENGINEER: CARMEN E. RAMOS, PE

HIGHWAY CLASSIFICATION
MAJOR COLLECTOR
WOLF ROAD TRAFFIC DATA
2018 ADT = 10,900
POSTED SPEED = 40 MPH



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.

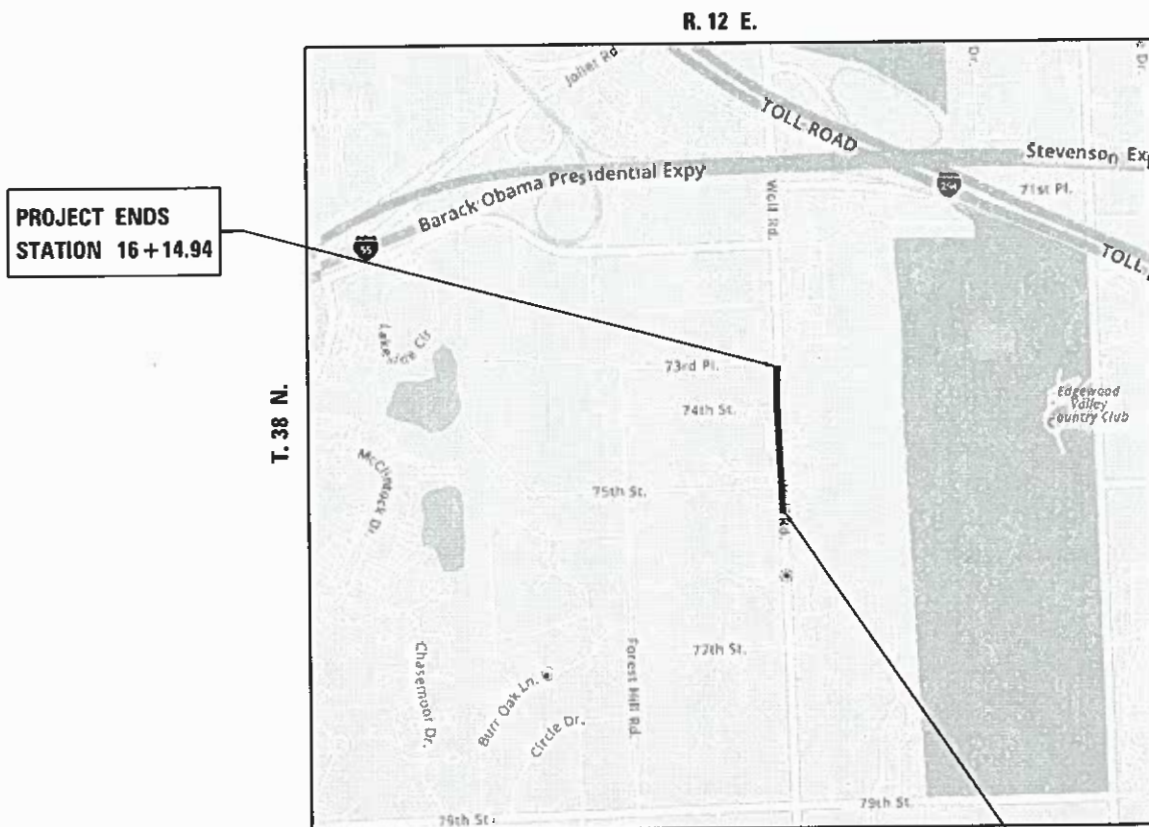
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123 OR 811



BURR RIDGE
A VERY SPECIAL PLACE.



LOCATION MAP N.T.S.
GROSS LENGTH = 1300 FEET = 0.25 MILES
NET LENGTH = 1300 FEET = 0.25 MILES



PROJECT ENDS
STATION 16+14.94

PROJECT BEGINS
STATION 3+10.70

PATRICK ENGINEERING INC.

APRIL 06 2023
ALETHYA W. YU-JANICKL, P.E.
NO. 062-063048
EXP. DATE: 11/30/23

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Approved: *[Signature]*
April 06, 2023
VILLAGE OF BURR RIDGE, PUBLIC WORKS DIRECTOR / VILLAGE ENGINEER

Passed: *[Signature]* April 11, 2023
DISTRICT ONE ENGINEER OF LOCAL ROADS & STREETS

Releasing for Bid
Based on Limited
Review: *[Signature]* April 11, 2023
REGIONAL ENGINEER

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

CONTRACT NO. 61J42

INDEX OF SHEETS


<u>SHEET NO.</u>	<u>DESCRIPTION</u>
1	COVER
2	INDEX OF STANDARDS AND DETAILS, INDEX OF SHEETS
3	SUMMARY OF QUANTITIES 01
4	SUMMARY OF QUANTITIES 02
5	SUMMARY OF QUANTITIES 03
6	ROADWAY PLAN 01A
7	ROADWAY PLAN 01
8	CABLE PLAN
9	FLASHING BEACON AND SIGNING DETAILS
10	EQUIPMENT CABINET DETAIL
11	SIDEWALK RAMP DETAILS
12	IDOT DISTRICT 1 DETAILS 01
13	IDOT DISTRICT 1 DETAILS 02
14	IDOT DISTRICT 1 DETAILS 03
15	IDOT DISTRICT 1 DETAILS 04
16	IDOT DISTRICT 1 DETAILS 05
17	IDOT DISTRICT 1 DETAILS 06

IDOT DISTRICT 1 DETAILS

<u>DETAIL NO.</u>	<u>ITEM DESCRIPTION</u>
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TS-05	STANDARD TRAFFIC SIGNAL DESIGN DETAILS (SHEETS 3-6)

IDOT HIGHWAY STANDARDS

<u>STANDARD NO.</u>	<u>ITEM DESCRIPTION</u>
000001-08	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424016-05	MID-BLOCK CURB RAMPS FOR SIDEWALKS
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE 2L, 2W, MOVING OPERATIONS - DAY ONLY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
731001-01	BASE FOR TELESCOPING STEEL SIGN SUPPORT
780001-05	TYPICAL PAVEMENT MARKINGS (SHEET 2)
814001-03	HANDHOLES
878001-11	CONCRETE FOUNDATION DETAILS (SHEET 1)

	USER NAME = ayj	DESIGNED - AYJ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WOLF ROAD PEDESTRIAN CROSSING IMPROVEMENT PROJECT INDEX OF SHEETS, LIST OF STATE STANDARDS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT CONFIG = \$PLTDRVS\$	DRAWN - AYJ	REVISED -			2689	22-00056-00-SW	COOK	17	2
	PLOT SCALE = 100.0000' / 1" =	CHECKED - MDD	REVISED -							CONTRACT NO. 61J42
	PLOT DATE = 4/5/2023	DATE - 04/06/23	REVISED -							ILLINOIS
SCALE: N/A		SHEET								

S.P.	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	SRTS FUNDS
					80% FED 20% VILLAGE SAFETY 0021
	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	2	2
	25200110	SODDING, SALT TOLERANT	SQ YD	2	2
	31101400	SUBBASE GRANULAR MATERIAL, TYPE B 6"	SQ YD	32	32
	42001300	PROTECTIVE COAT	SQ YD	32	32
	42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	281	281
	42400800	DETECTABLE WARNINGS	SQ FT	32	32
	44000600	SIDEWALK REMOVAL	SQ FT	207	207
	60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	1	1
	67100100	MOBILIZATION	L SUM	1	1
	70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1
	70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1
	70107025	CHANGEABLE MESSAGE SIGN	CAL DA	30	30
#	72000100	SIGN PANEL - TYPE 1	SQ FT	60	60
#	72000200	SIGN PANEL - TYPE 2	SQ FT	32	32
	72400200	REMOVE SIGN PANEL ASSEMBLY - TYPE B	EACH	2	2
	72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	36	36

SPECIALTY ITEMS



USER NAME = ogu
 PLOT CONFIG = \$PLTDRVS\$
 PLOT SCALE = 1.0000' / 1" =
 PLOT DATE = 4/5/2023

DESIGNED - AYJ
 DRAWN - AYJ
 CHECKED - MDD
 DATE - 04/06/23

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

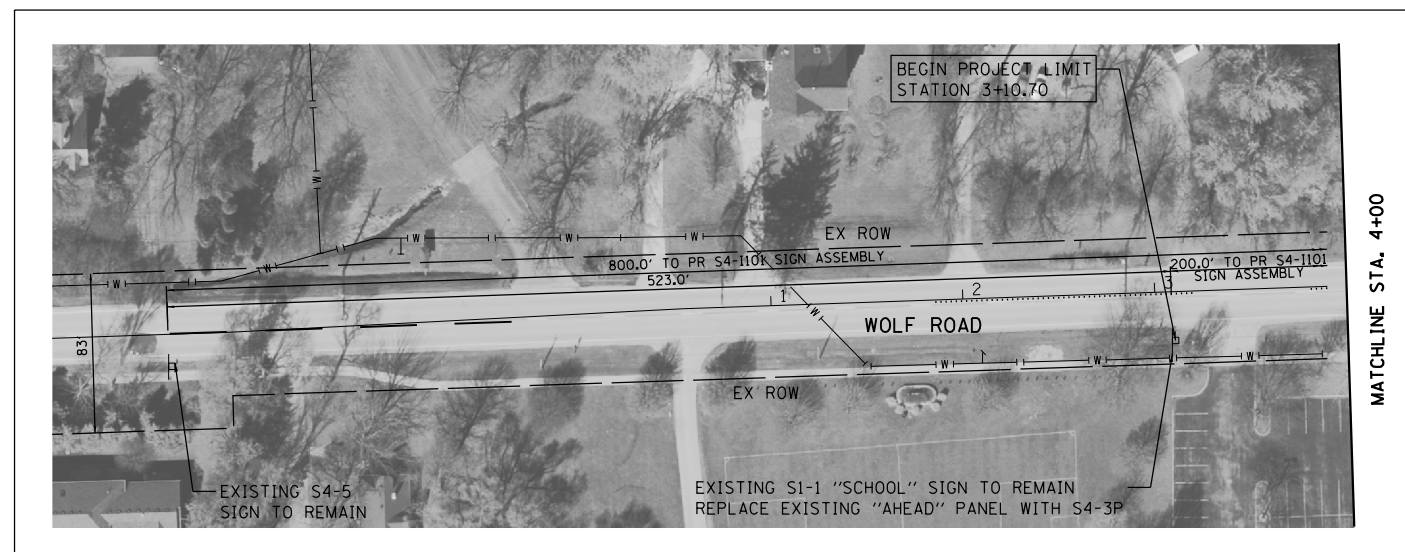
WOLF ROAD PEDESTRIAN CROSSING IMPROVEMENT PROJECT
 SUMMARY OF QUANTITIES

SCALE: SHEET

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2689	22-00056-00-SW	COOK	17	3
			CONTRACT NO. 61J42	
ILLINOIS				

					SRTS FUNDS	
S.P.	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% FED	20% VILLAGE
					SAFETY 0021	
#	72400710	RELOCATE SIGN PANEL - TYPE 1	SQ FT	4	4	
#	72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	66	66	
#	73100100	BASE FOR TELESCOPING STEEL SIGN SUPPORT	EACH	8	8	
#	78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	75	75	
#	78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	96	96	
#	78011000	GROOVING FOR RECESSED PAVEMENT MARKING, LETTERS AND SYMBOLS	SQ FT	75	75	
#	78011065	GROOVING FOR RECESSED PAVEMENT MARKING 13"	FOOT	80	80	
	78300201	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	66	66	
#	* 80500010	SERVICE INSTALLATION - GROUND MOUNTED	EACH	1	1	
#	81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	18	18	
#	* 81400100	HANDHOLE	EACH	1	1	
#	* 85000500	MAINTENANCE OF EXISTING FLASHING BEACON INSTALLATION	EACH	1	1	
#	* 87301805	ELECTRIC CABLE IN CONDUIT, SERVICE NO. 6 2C	FOOT	180	180	
#	* 87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	250	250	
#	* 87800100	CONCRETE FOUNDATION, TYPE A	FOOT	8	8	
#	87900200	DRILL EXISTING HANDHOLE	EACH	1	1	

SPECIALTY ITEMS



LEGEND

- EXISTING METAL CONDUIT
- A— EXISTING AERIAL
- G— EXISTING GAS
- W— EXISTING WATERMAIN
- EXISTING SANITARY SEWER
- EXISTING HANDHOLE
- EXISTING STREET SIGN
- △ EXISTING FLASHING BEACON
- ⊠ EXISTING CONTROLLER CABINET TO BE REMOVED
- PROPOSED GALVANIZED STEEL CONDUIT
- ◀ EXISTING FLASHING BEACON
- PROPOSED PUSHBUTTON
- ◻ PROPOSED HANDHOLE
- ⊠ PROPOSED CONTROLLER CABINET LOCATION
- PROPOSED TELESCOPE SIGN ASSEMBLY

NOTES:

1. PUSHBUTTON LOCATION SHALL CONFORM TO MUTCD 2009 EDITION, SECTION CHAPTER 4E.
2. ALL SIGNAGE SHALL BE LOCATED 7 FT. (MIN.) FROM THE GROUND SURFACE TO THE BOTTOM OF THE SIGN ASSEMBLIES WITHIN THE SCHOOL ZONE.
3. ALL SIGNAGE SHALL BE 10 FT. HORIZONTAL CLEARANCE FROM THE EDGE OF THE TRAVELED WAY.
4. TYPE ZZ SIGN SHEET SHALL BE USED ON ALL PROPOSED SIGNS.
5. ALL W11 AND W16 TYPE SIGNS SHALL BE FLOURESCENT YELLOW GREEN (FYG).
6. ALL PAVEMENT MARKING SHALL MEET THE MUTCD REQUIREMENTS, MODIFIED URETHANE AND RECESSED IF PLACED ON HMA.
7. SEE SHEET 8 FOR ADDITIONAL GENERAL NOTES.
8. CONTRACTOR SHALL TAKE PRECAUTION BY PRESERVING EXISTING TREES WITHIN THE RIGHT OF WAY. IF ANY DAMAGE OCCURS, TRESS SHALL BE REPLACED IN KIND PER ARTICLE 201.07 REPAIR OR REPLACEMENT OF EXISTING PLANT MATERIAL REQUIREMENTS STATED HEREIN.
9. ALL NITROGEN, PHOSPHORUS AND POTASSIUM FERTILIZER NUTRIENTS HAVE BEEN INTENTIONALLY OMITTED FROM THE CONTRACT ON THE SODDING APPLICATION.



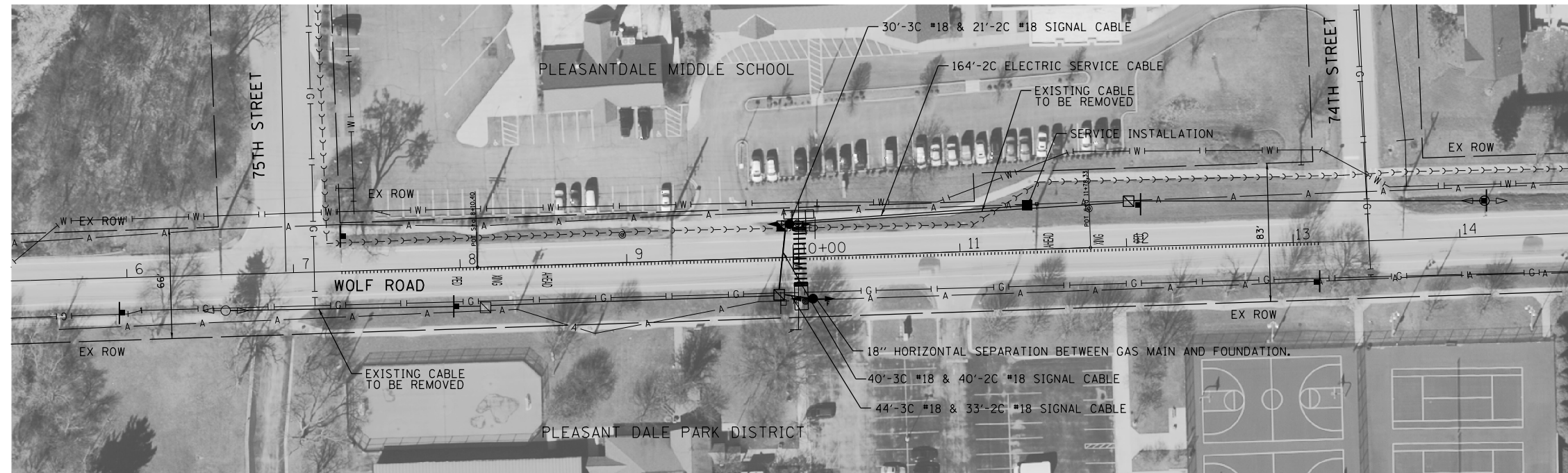
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PLOT CONFIG = \$PLTDRVS\$	DRAWN - AYJ	REVISED -
PLOT SCALE = 100.0000' / 1" =	CHECKED - MDD	REVISED -
PLOT DATE = 4/5/2023	DATE - 04/06/23	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WOLF ROAD PEDESTRIAN CROSSING IMPROVEMENT PROJECT
ROADWAY, PAVEMENT MARKING, AND SIGNING PLAN**

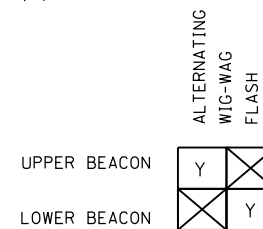
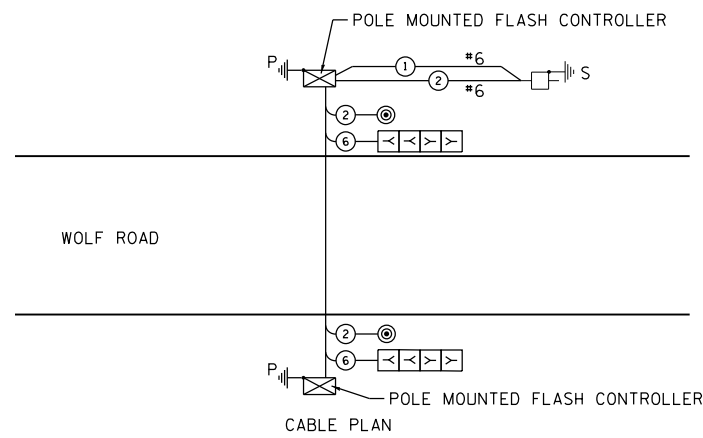
SCALE: 1" = 50' SHEET

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2689	22-00056-00-SW	COOK	17	6
			CONTRACT NO. 61J42	
ILLINOIS				



LEGEND

- A — EXISTING AERIAL
- IG — EXISTING GAS
- W — EXISTING WATERMAIN
- >->- EXISTING SANITARY SEWER
- EXISTING HANDHOLE
- ⊙ EXISTING FLASHING BEACON
- ⊠ EXISTING CABINET TO BE REMOVED
- PROPOSED SIGNAL CABLE
- ⊙ EXISTING FLASHING BEACON
- PROPOSED PUSHBUTTON
- PROPOSED HANDHOLE
- ⊠ PROPOSED CABINET LOCATION
- ⊥ PROPOSED GROUNDING



SEQUENCE

NOTES:

1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 1-800-892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOUR NOTIFICATION REQUIRED) COOK COUNTY IS NOT PART OF J.U.L.I.E. FOR LOCATION OF TRAFFIC SIGNAL EQUIPMENT, CONTACT THE MECHANICAL, ELECTRICAL, ARCHITECTURAL AND LANDSCAPING DIVISION OF COOK COUNTY DEPARTMENT OF TRANSPORTATION AND HIGHWAYS (CCDOH) AT 312-603-1730.
2. CONTRACTOR SHALL INFORM THE CCDOH DESIGN ENGINEER AT 312-603-1730 PRIOR TO THE START OF ANY WORK ON THE CONTRACT. A MINIMUM OF FIVE (5) WORKING DAYS ADVANCED NOTICE IS REQUIRED.
3. COORDINATION BETWEEN THE ELECTRICAL CONTRACTOR AND SIDEWALK CONTRACTOR IS REQUIRED BEFORE THE SIDEWALK CONSTRUCTION. THE CONTRACTOR SHALL CONTACT CCDOH.
4. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE ENGINEER.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL EXISTING UTILITY FACILITIES SO THAT THE UTILITIES AND THEIR APPURTENANCES MAY BE LOCATED, AND ADJUSTED OR MOVED, IF NECESSARY, PRIOR TO THE START OF CONSTRUCTION OPERATION.
6. THE CONTRACTOR SHALL CONTACT THE VILLAGE OF BURR RIDGE A MINIMUM OF 72 HOURS PRIOR TO THE START OF CONSTRUCTION ACTIVITIES AND TO FINALIZING THE TIMING PLAN FOR THE DIGITAL TIME SWITCH AT 630-654-8181.

NOTES (CONTINUED):

7. THE LOCATIONS OF EXISTING DITCHES, DRAINAGE STRUCTURES, STORM AND SANITARY SEWERS, AND OTHER UTILITY LINES ARE APPROXIMATE. THEIR EXACT HORIZONTAL AND VERTICAL LOCATIONS ARE TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR AT NO ADDITIONAL COST.
8. CONTRACTOR SHALL ROD AND CLEAN EXISTING CONDUITS AS INDICATED ON SHEETS.
9. ALL PEDESTRIAN PUSH-BUTTON LOCATIONS SHALL FOLLOW THE GUIDELINES FROM ADA/PROWAG.
10. THE LOCATION OF THE PEDESTRIAN PUSHBUTTON MUST BE PARALLEL TO THE CROSSWALK.
11. CARE TO BE TAKEN AS NOT TO DAMAGE ANY OF THE EXISTING TRAFFIC SIGNAL CONDUITS, FIBER CABLES, AND EQUIPMENT. IF ANY OF THE TRAFFIC SIGNAL CONDUITS, CABLE AND/OR EQUIPMENT IS DAMAGED, THE CONTRACTOR SHALL REPAIR AND/OR REPLACE THE CONDUITS, CABLES AND/OR EQUIPMENT AT NO COST TO THE DEPARTMENT.
12. ALL SIGNAGE UNLESS NOTED OTHERWISE SHALL BE LOCATED 7 FT. (MIN.) FROM THE GROUND SURFACE TO THE BOTTOM OF THE SIGN ASSEMBLIES WITHIN THE SCHOOL ZONE.
13. THE PROPOSED FLASHERS AT THE PEDESTRIAN CROSSING SHALL BE SET UP TO BE ALTERNATELY FLASHED.
14. CONTRACTOR SHALL VERIFY EXISTING ELECTRICAL LOADING WITH COMED AND ENSURE SERVICE CABLE AND SIGNAL CABLE ARE COMPATIBLE WITH THE DIGITAL TIME SWITCH AND FLASHING BEACONS PRIOR TO PRODUCT PROCUREMENT.
15. EXISTING CROSSWALK TO BE CLOSED DURING CONSTRUCTION.



USER NAME = ayj
 PLOT CONFIG = \$PLTDVRS\$
 PLOT SCALE = 80.0000' / in.
 PLOT DATE = 4/5/2023

DESIGNED - AYJ
 DRAWN - AYJ
 CHECKED - MDD
 DATE - 04/06/23

REVISED -
 REVISED -
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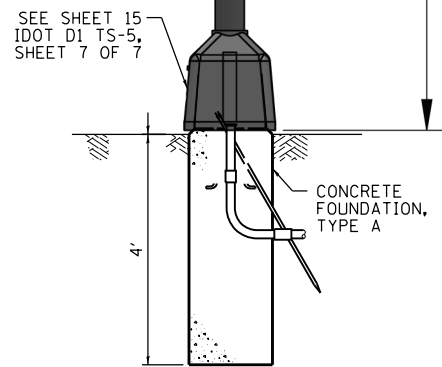
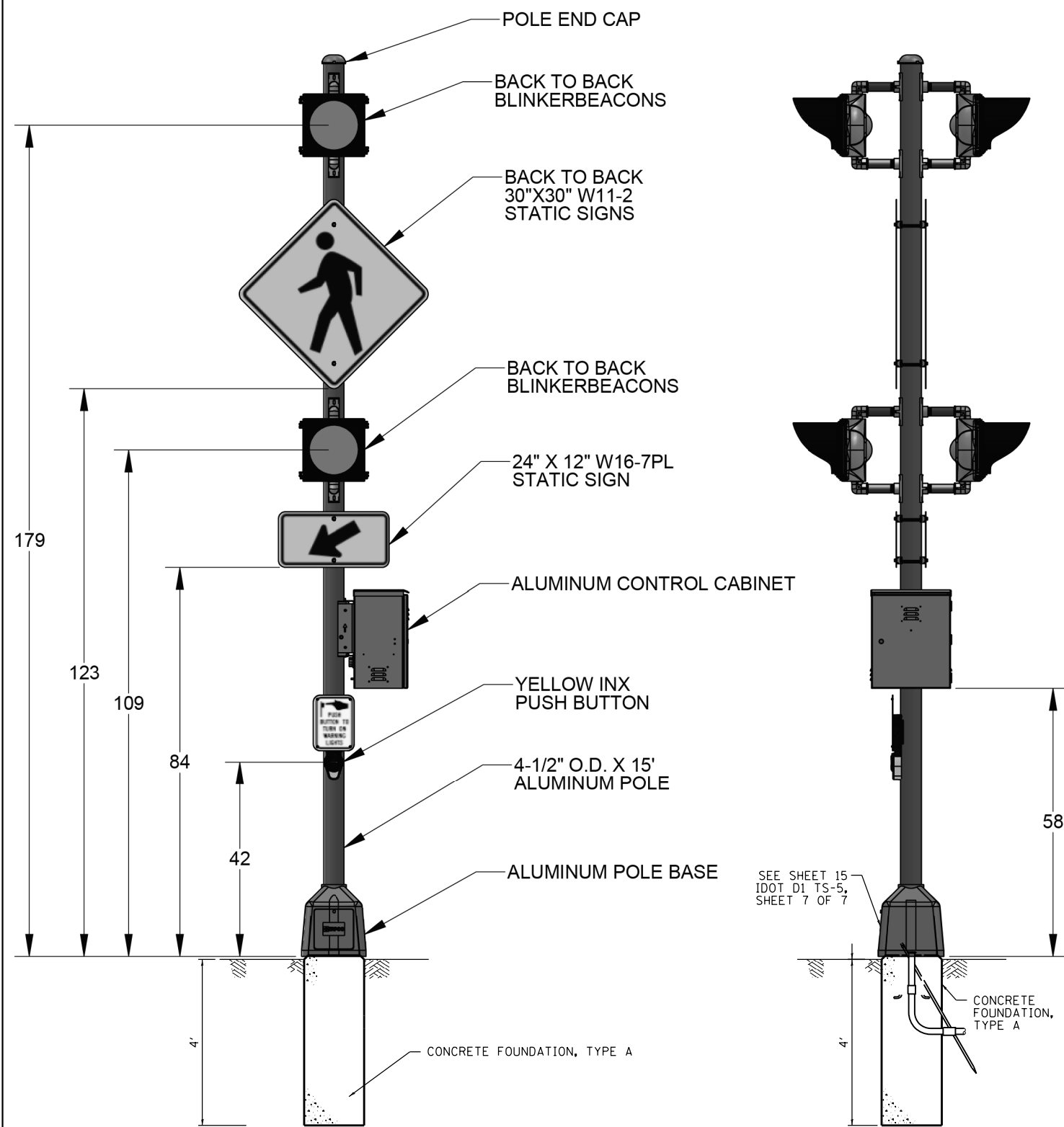
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOLF ROAD PEDESTRIAN CROSSING IMPROVEMENT PROJECT
CABLE PLAN

SCALE: 1" = 40'

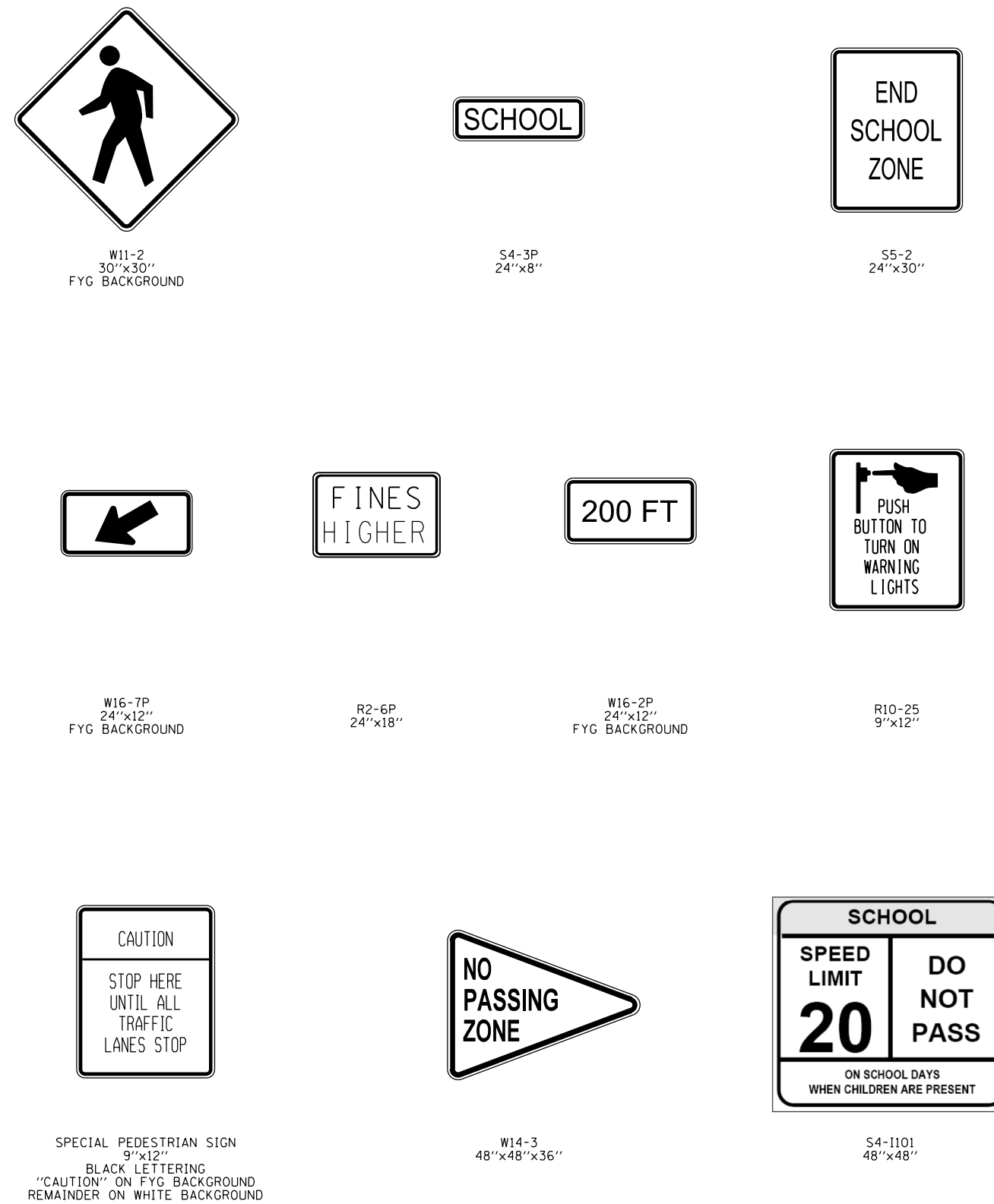
SHEET

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2689	22-00056-00-SW	COOK	17	8
			CONTRACT NO. 61J42	
ILLINOIS				



NOTE:
THIS DETAIL APPLIES TO THE "FLASHING BEACON INSTALLATION" PAY ITEM. GROUND ROD, ANCHOR BOLTS, AND CONDUIT ENTRANCE SHOWN IN THIS DETAIL ARE INCLUDED IN THE PAY ITEM.

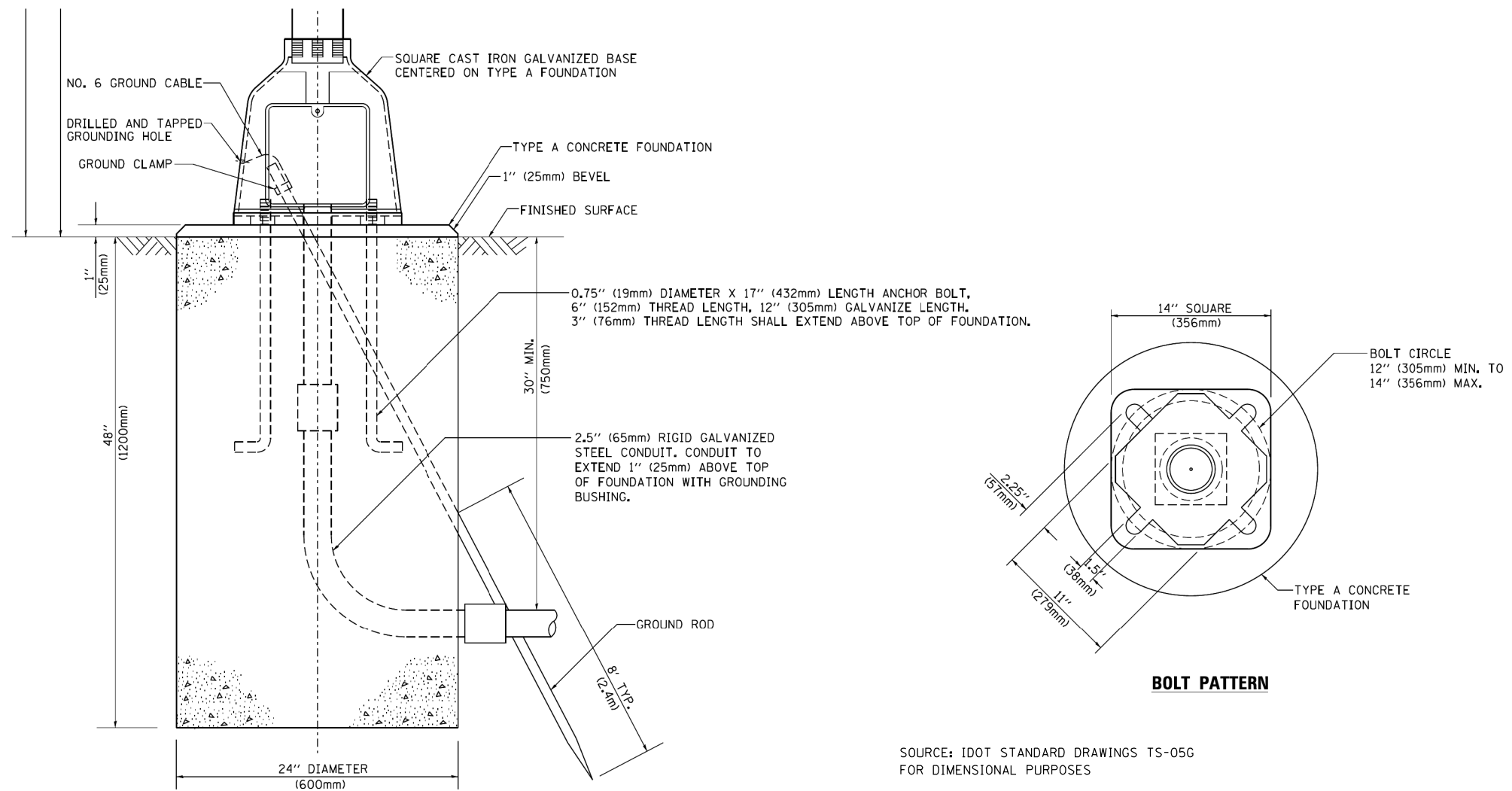
FLASHING BEACON ASSEMBLY (N.T.S.)



NOTES:
1) "FYG" IS AN ABBREVIATION FOR "FLOURESCENT YELLOW-GREEN."
2) ALL SIGNS SHALL BE CONSTRUCTED ON TYPE ZZ SIGN SHEETING.

SIGNING LEGEND

BURR RIDGE A VERY SPECIAL PLACE	USER NAME = oju	DESIGNED - AYJ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WOLF ROAD PEDESTRIAN CROSSING IMPROVEMENT PROJECT PEDESTRIAN BEACON AND SIGNING DETAILS	F.A.U. RTE. 2689	SECTION 22-00056-00-SW	COUNTY COOK	TOTAL SHEETS 17	SHEET NO. 9
	PLOT CONFIG = SPLDRVS*	DRAWN - AYJ	REVISED -			SCALE: SHEET	ILLINOIS	CONTRACT NO. 61J42		
	PLOT SCALE = 1:8000 / 1/8"	CHECKED - MDD	REVISED -							
	PLOT DATE = 4/5/2023	DATE - 04/06/23	REVISED -							



NOTE: ALL ITEMS SHOWN IN THIS DETAIL ARE INCLUDED IN THE PAY ITEM "FLASHING BEACON ASSEMBLY" WITH THE EXCEPTION OF "CONCRETE FOUNDATION, TYPE A". CONTRACTOR SHALL ENSURE PROPOSED PEDESTAL BASE AND FOUNDATION PROVIDE ADEQUATE STRUCTURAL SUPPORT PRIOR TO PRODUCT PROCUREMENT.

 BURR RIDGE A VERY SPECIAL PLACE	USER NAME = ayj	DESIGNED - AYJ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WOLF ROAD PEDESTRIAN CROSSING IMPROVEMENT PROJECT PEDESTRIAN BEACON AND SIGNING DETAILS	F.A.U. RTE. = 2689	SECTION = 22-00056-00-SW	COUNTY = COOK	TOTAL SHEETS = 17	SHEET NO. = 10
	PLOT CONFIG = \$PLTDRVS\$	DRAWN - AYJ	REVISED -			SCALE: SHEET	ILLINOIS	CONTRACT NO. 61J42		
PLOT SCALE = 1:8000 / 1/8" = 1'	CHECKED - MDD	REVISIED -								
PLOT DATE = 4/5/2023	DATE - 04/06/23	REVISIED -								

PLEASANTDALE MIDDLE SCHOOL

HORIZONTAL CONTROL NAIL
 N: 1853341.6684
 E: 1103430.1753
 ELEV. 634.42



	STATION	OFFSET	LT/RT	EX. ELEV.	PR. ELEV.
A	9+95	27.97	LT	633.15	633.15
B	10+00	27.97	LT	633.16	633.23
C	10+08	27.99	LT	633.09	633.22
D	10+13	27.99	LT	633.05	633.05
E	10+13	22.98	LT	632.96	632.96
F	10+08	23.02	LT	632.96	633.20
G	10+08	15.97	LT	633.29	633.29
H	10+08	15.32	LT	633.31	633.31
I	10+00	15.97	LT	633.26	633.26
J	10+00	23.04	LT	633.00	633.21
K	9+95	23.04	LT	633.05	633.05

WOLF ROAD

N: 1853316.17
 E: 1103475.39

N: 1853416.12
 E: 1103472.21

	STATION	OFFSET	LT/RT	EX. ELEV.	PR. ELEV.
A	10+00	15.46	RT	632.97	632.97
B	10+08	15.24	RT	632.98	632.98
C	10+08	15.45	RT	632.81	632.98
D	10+00	31.72	RT	631.72	631.72
E	10+08	31.67	RT	631.78	631.78

EXISTING CONCRETE SIDEWALK

PLEASANT DALE PARK DISTRICT

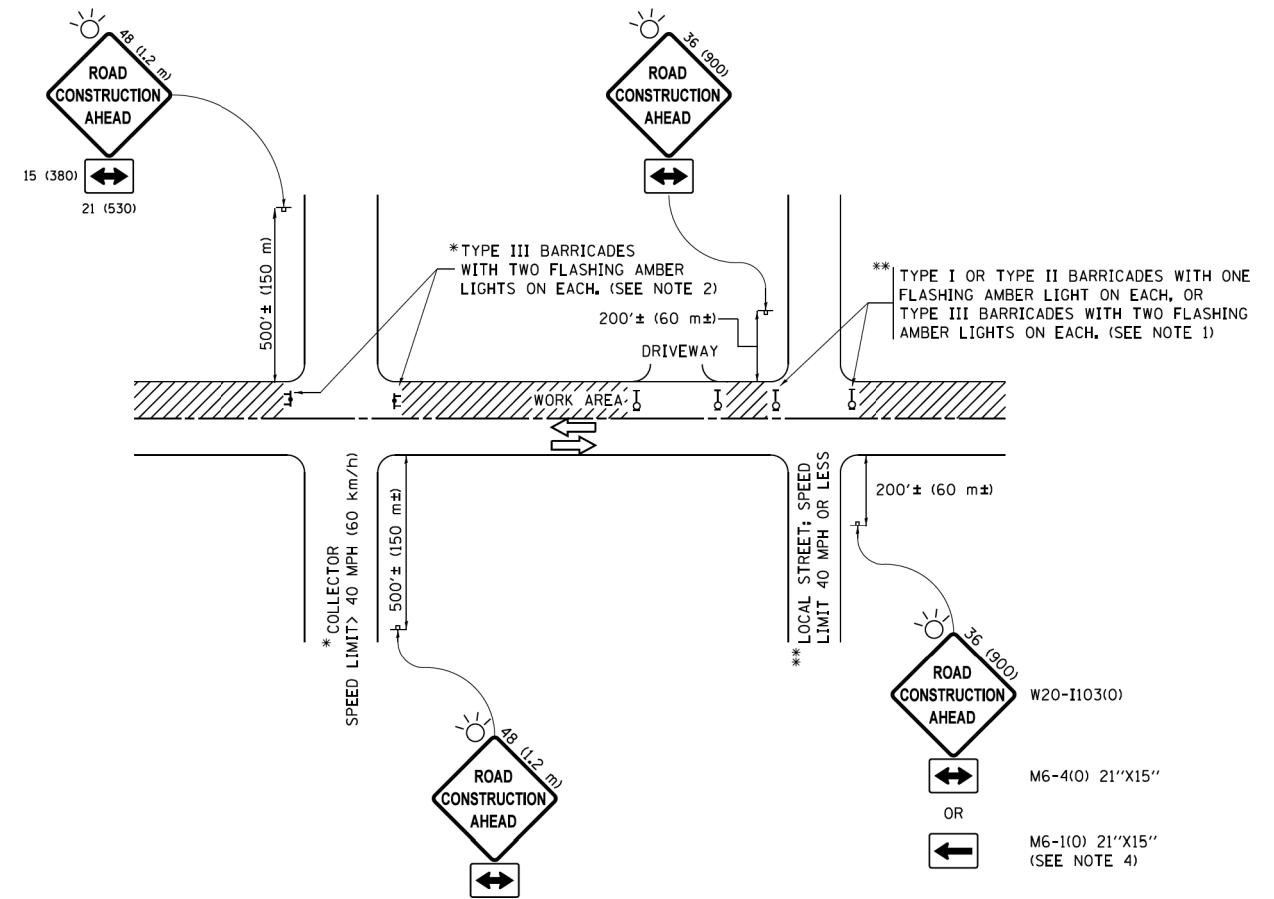
HORIZONTAL CONTROL NAIL
 N: 1853424.0786
 E: 1103523.1369
 ELEV. 631.62

LEGEND

PROPOSED DETECTABLE WARNINGS

NOTE:
 DETECTABLE WARNINGS ARE TO EXTEND 2' FROM EDGE OF PAVEMENT FOR ENTIRE WIDTH OF SIDEWALK

BURR RIDGE A VERY SPECIAL PLACE	USER NAME = ayj	DESIGNED - AYJ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WOLF ROAD PEDESTRIAN CROSSING IMPROVEMENT PROJECT SIDEWALK RAMP DETAIL	F.A. R.T.E. = 2689	SECTION = 22-00056-00-SW	COUNTY = COOK	TOTAL SHEETS = 17	SHEET NO. = 11
	PLOT CONFIG = *PLTDRVS*	DRAWN - AYJ	REVISED -			SCALE: 1" = 5'	SHEET	CONTRACT NO. 61J42		ILLINOIS
	PLOT SCALE = 10.0000' / 1" =	CHECKED - MDD	REVISED -							
	PLOT DATE = 4/5/2023	DATE - 04/06/23	REVISED -							



NOTES:

- 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:
 - 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.
 - 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.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - 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.
- CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
- WHEN 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).
- 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.
- ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
- 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 = foatemj	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
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	PLCT DATE = 9/15/2016	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS	
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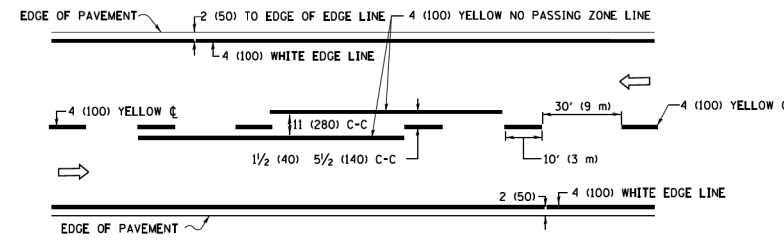
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	TC-10			
CONTRACT NO.			ILLINOIS FED. AID PROJECT	

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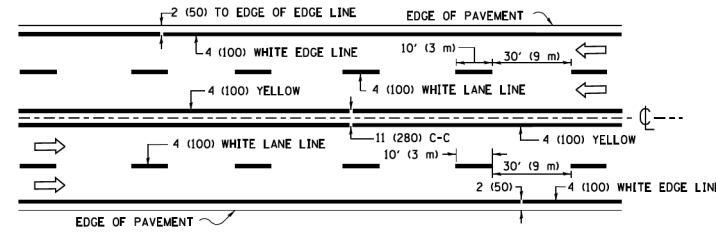
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

WOLF ROAD PEDESTRIAN CROSSING IMPROVEMENT PROJECT PEDESTRIAN BEACON AND SIGNING DETAILS	
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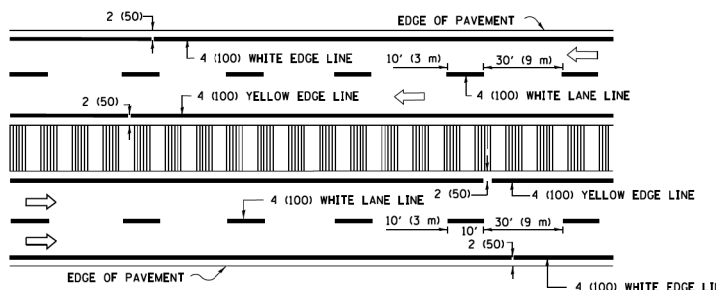
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2689	22-00056-00-SW	COOK	17	12
CONTRACT NO. 61J42			ILLINOIS	



2-LANE ROADWAY

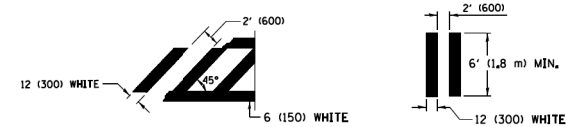
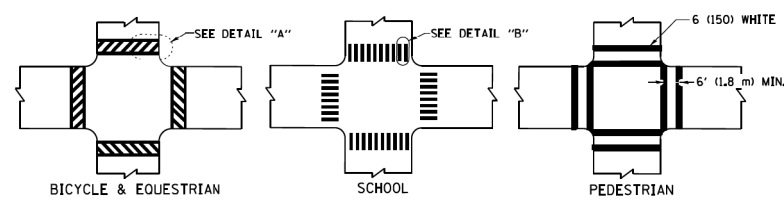


MULTI-LANE UNDIVIDED



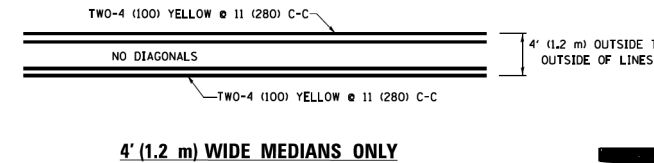
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

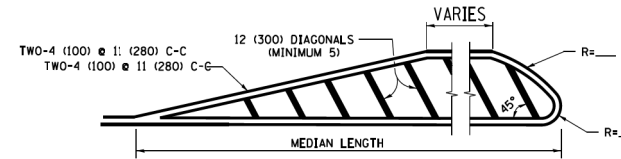


TYPICAL CROSSWALK MARKING

* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



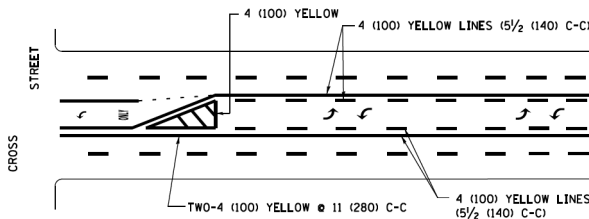
4' (1.2 m) WIDE MEDIANS ONLY



MEDIANS OVER 4' (1.2 m) WIDE

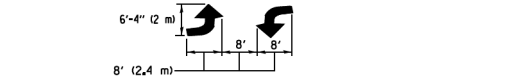
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

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



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

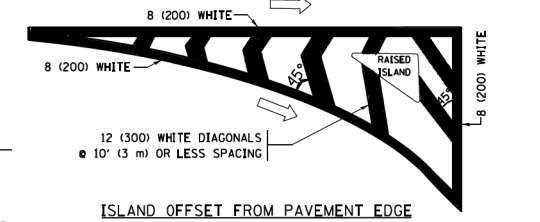


TYPICAL LEFT (OR RIGHT) TURN LANE

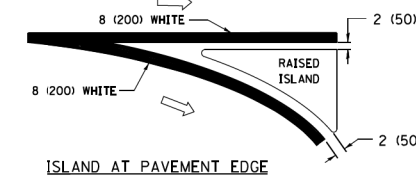
TYPICAL TURN LANE MARKING

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

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

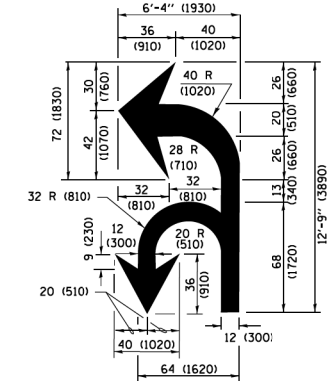


ISLAND OFFSET FROM PAVEMENT EDGE

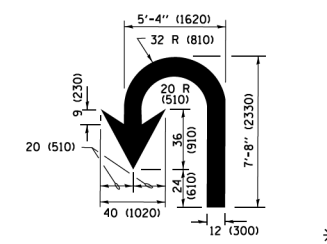


ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

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 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE 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 WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° 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.
SCORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS (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) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 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

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

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

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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			TC-13				
			ILLINOIS FED. AID PROJECT		CONTRACT NO.		

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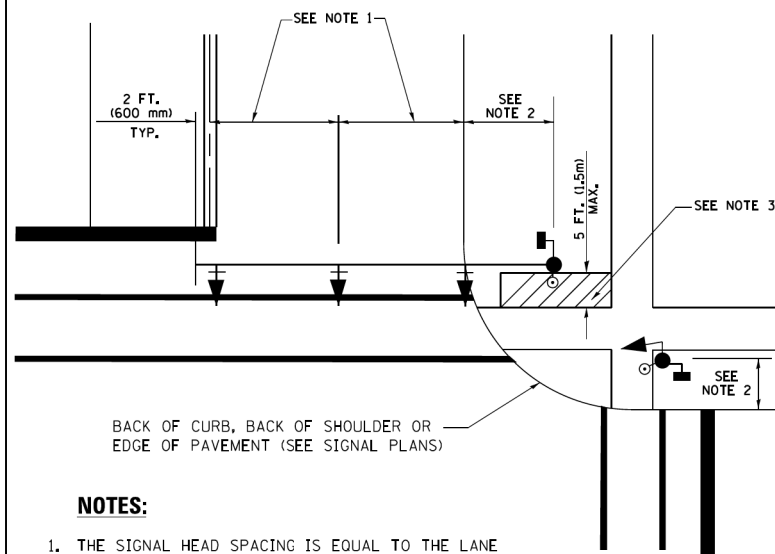
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WOLF ROAD PEDESTRIAN CROSSING IMPROVEMENT PROJECT
PEDESTRIAN BEACON AND SIGNING DETAILS**

SCALE:	SHEET	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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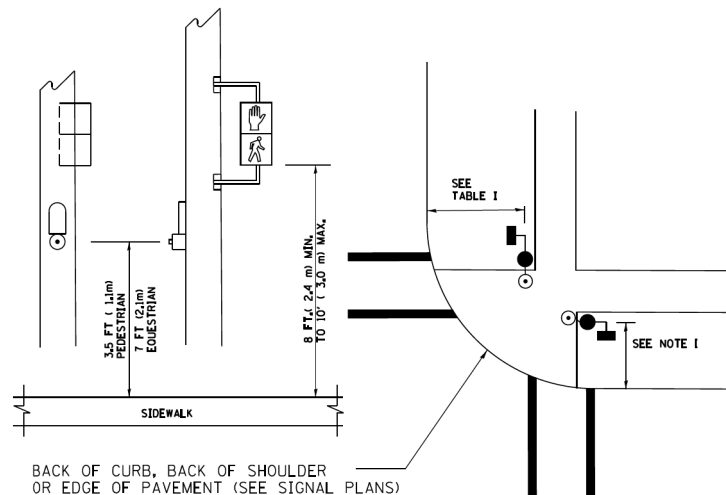
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



NOTES:

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
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."

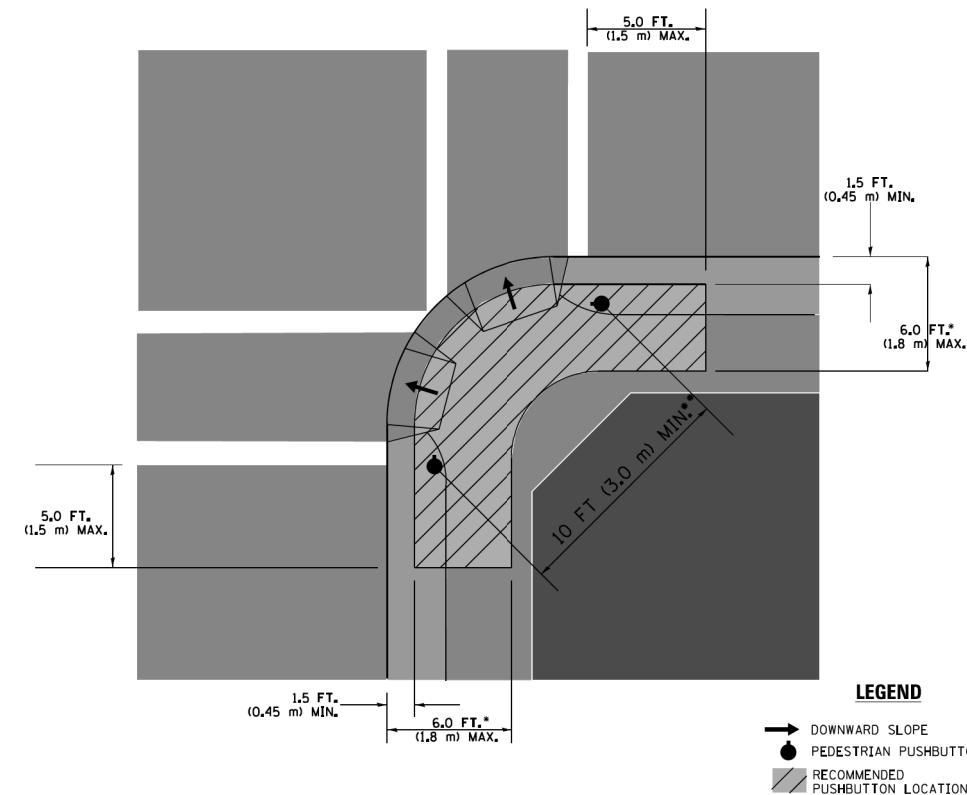
**PEDESTRIAN SIGNAL POST
AND
PEDESTRIAN PUSH BUTTON POST**



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 BUILDINGS AND FACILITIES."

RECOMMENDED PUSHBUTTON LOCATIONS



- 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.

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.

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 TO THE 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.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE	SHEET NO. 3 OF 7 SHEETS	STA. TO STA.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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					FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT

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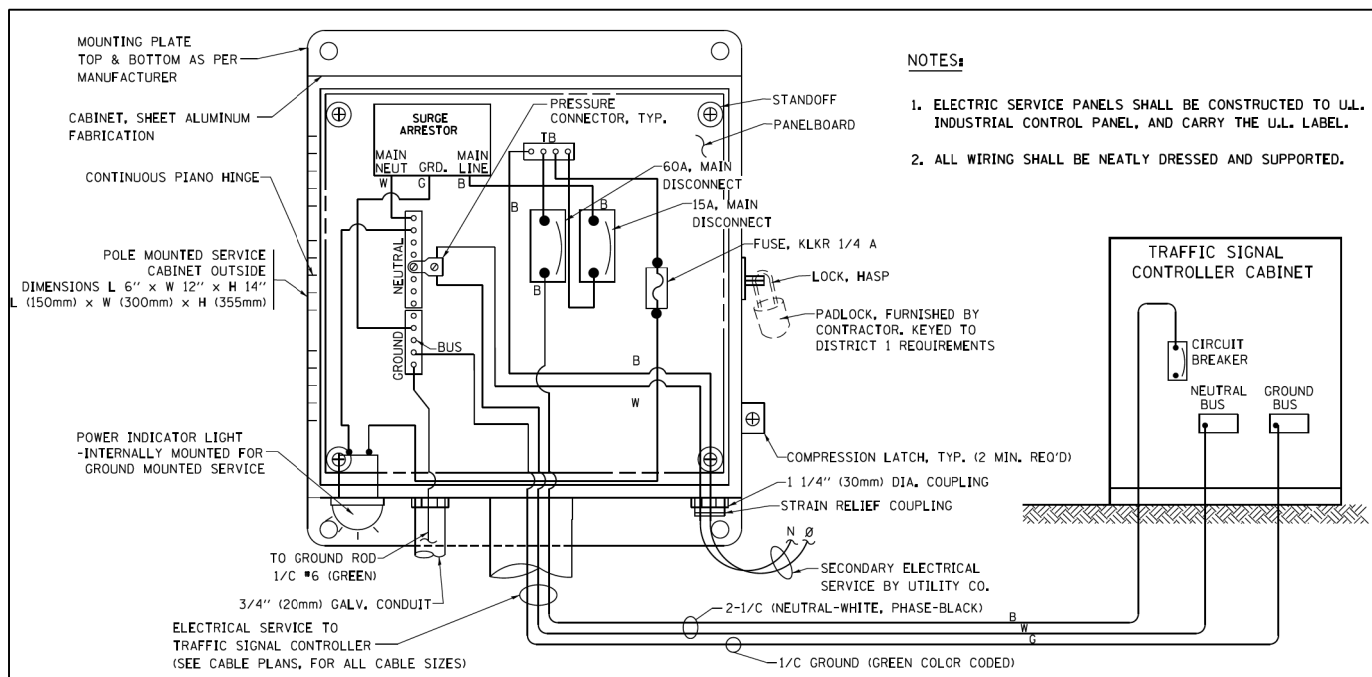


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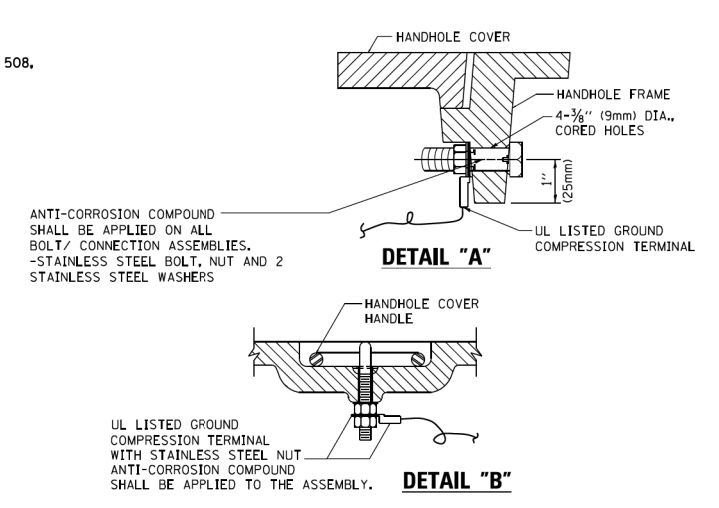
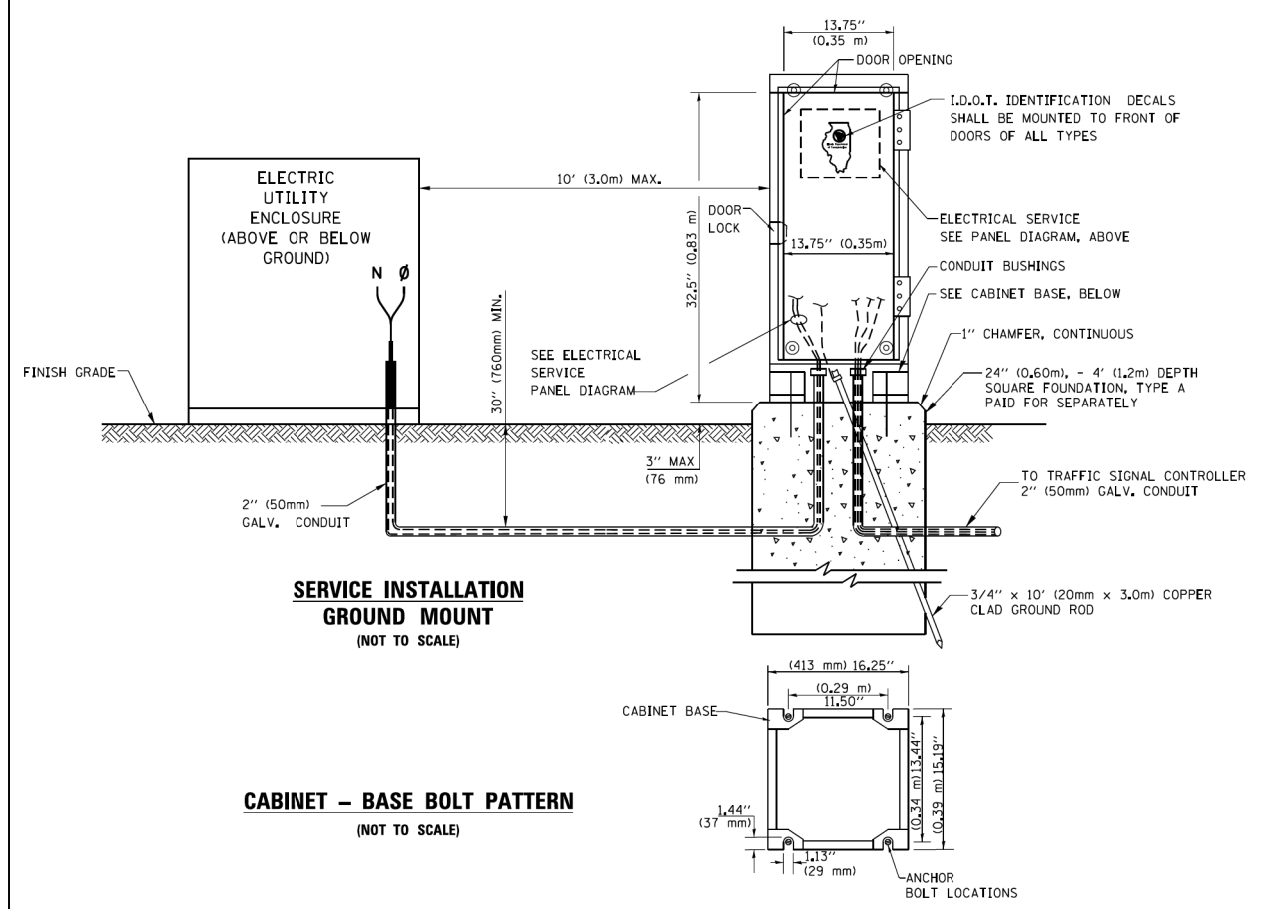
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WOLF ROAD PEDESTRIAN CROSSING IMPROVEMENT PROJECT
PEDESTRIAN BEACON AND SIGNING DETAILS**

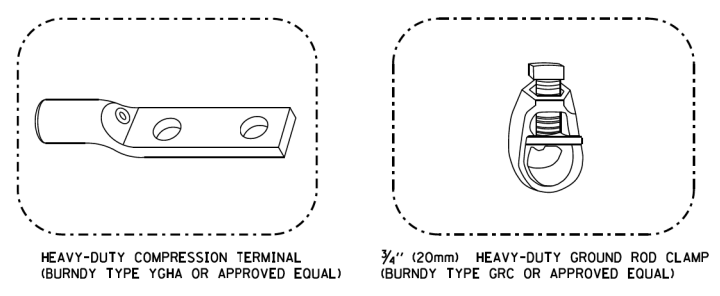
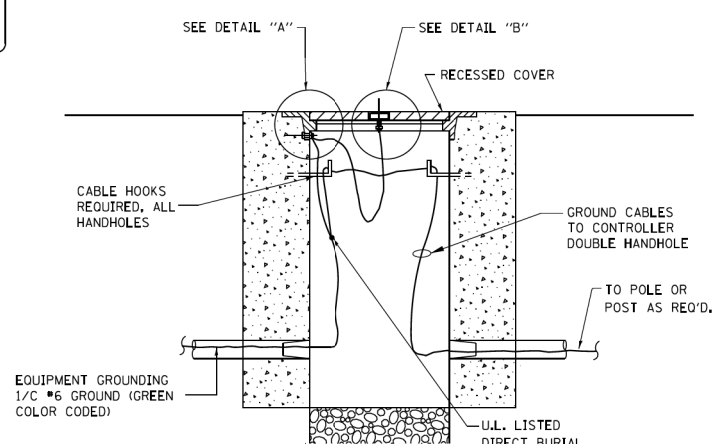
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						ILLINOIS



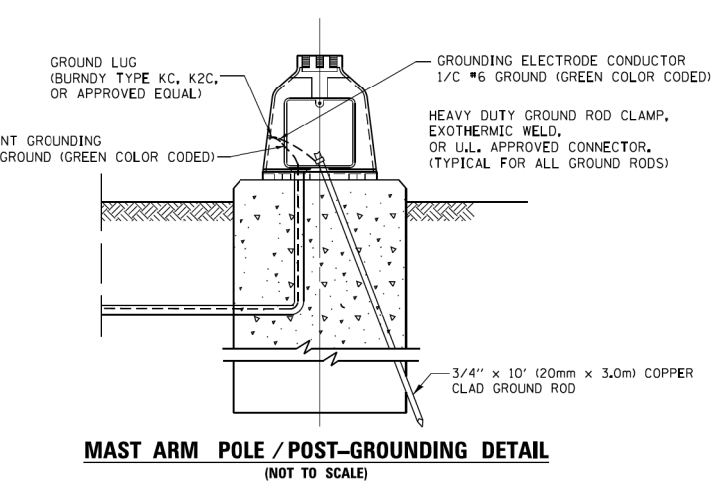
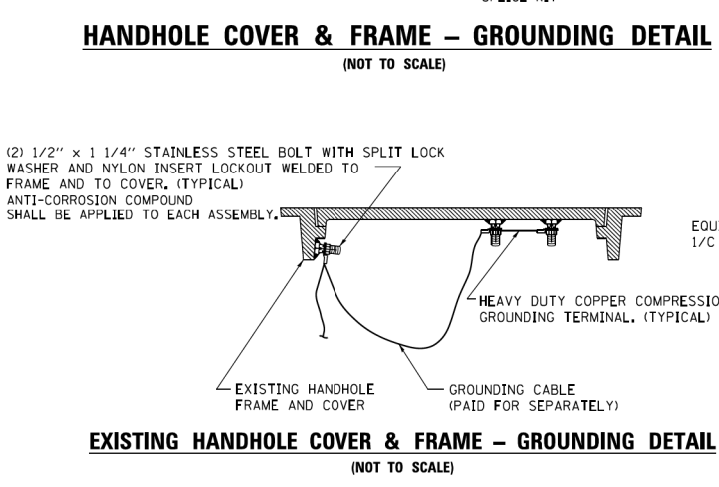
**ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
(NOT TO SCALE)**



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



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



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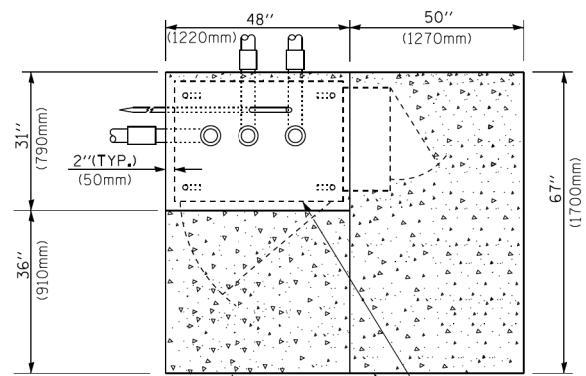
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STANDARD TRAFFIC SIGNAL DESIGN DETAILS						
SCALE: NONE	SHEET NO. 4 OF 7 SHEETS	STA.	TO STA.	CONTRACT NO.		
		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

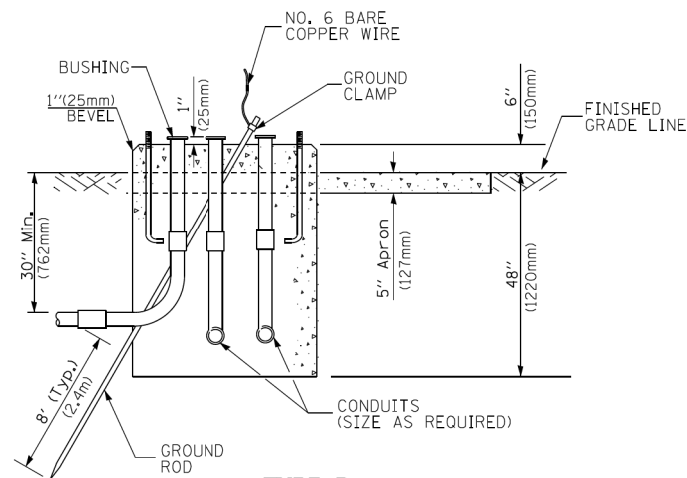
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PLOT DATE = 4/5/2023	DATE - 04/06/23	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

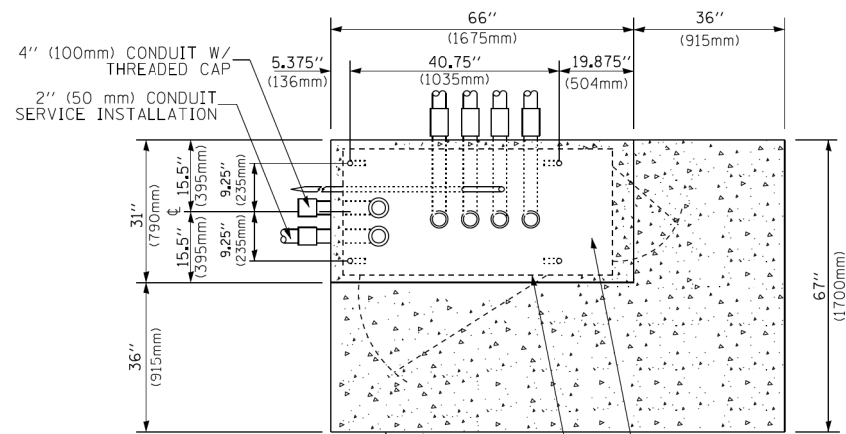
WOLF ROAD PEDESTRIAN CROSSING IMPROVEMENT PROJECT		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PEDESTRIAN BEACON AND SIGNING DETAILS		2689	22-00056-00-SW	COOK	17	15
SCALE:	SHEET	CONTRACT NO. 61J42				
		ILLINOIS				



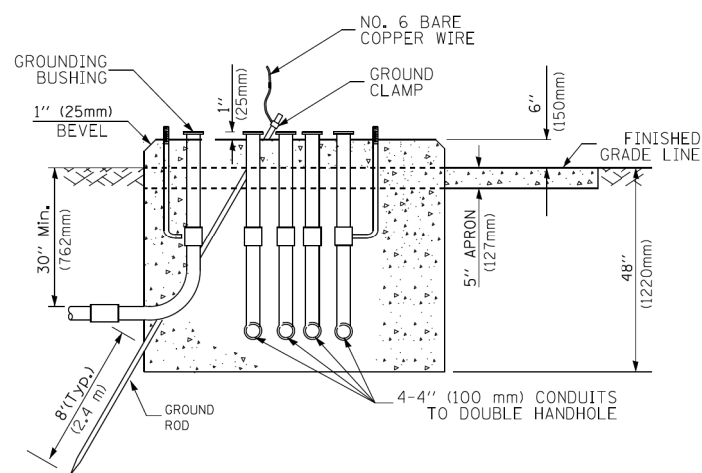
TOP VIEW



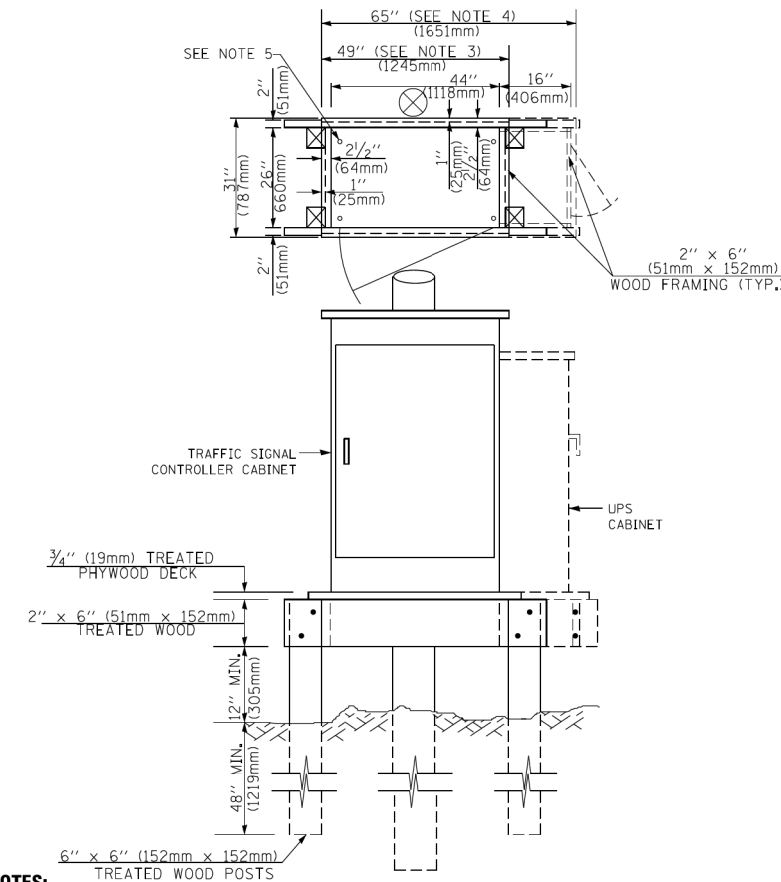
**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**



TOP VIEW



**TYPE C
FOR GROUND MOUNTED
SUPER P (TYPE IV) AND SUPER R (TYPE V)
CONTROLLER CABINETS**



NOTES:

1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
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

CABLE SLACK

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

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	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 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and less than 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 75' (22.9 m)	15'-0" (4.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

1. 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

FILE NAME =	USER NAME = foatemj	DESIGNED - DAG	REVISED - DAG 1-1-14
ca:\pwwork\psidot\foatemj\d0108315\ts05.dgn		DRAWN - BCK	REVISED -
	PLOT SCALE = 50.0000' / 1in.	CHECKED - DAD	REVISED -
	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

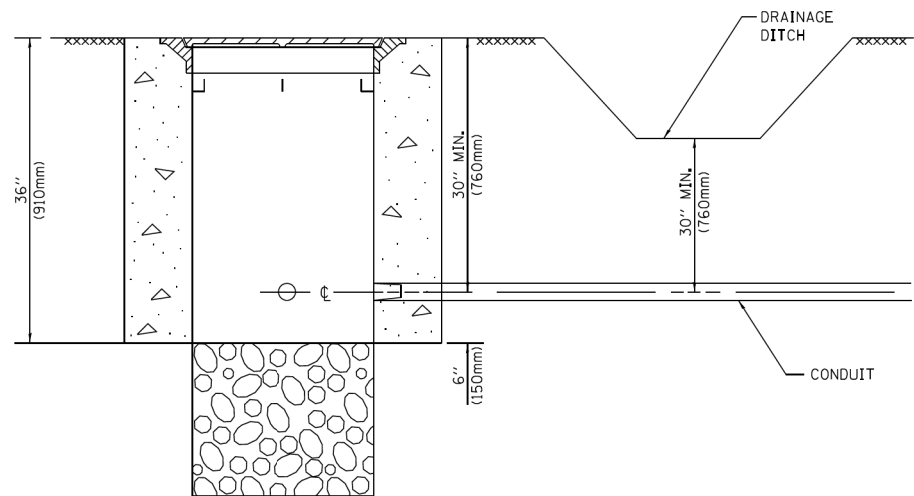
DISTRICT ONE		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STANDARD TRAFFIC SIGNAL DESIGN DETAILS		TS-05		CONTRACT NO.		
SCALE: NONE	SHEET NO. 5 OF 7 SHEETS	STA.	TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

USER NAME = ayj	DESIGNED - AYJ	REVISED -
PLOT CONFIG = SPLTRV5*	DRAWN - AYJ	REVISED -
PLOT SCALE = 1.0000' / 1in.	CHECKED - MDD	REVISED -
PLOT DATE = 4/5/2023	DATE - 04/06/23	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WOLF ROAD PEDESTRIAN CROSSING IMPROVEMENT PROJECT
PEDESTRIAN BEACON AND SIGNING DETAILS**

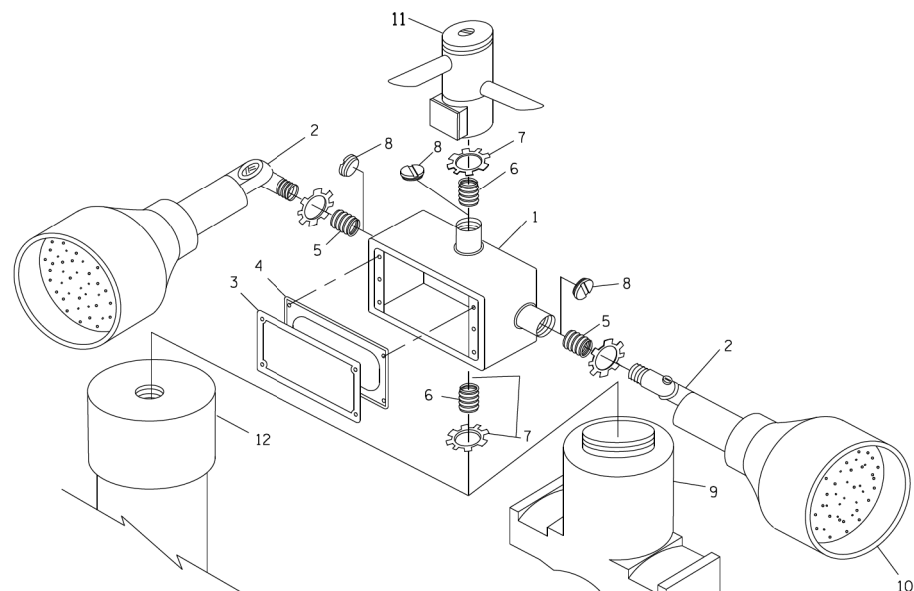
SCALE:	SHEET	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		2689	22-00056-00-SW	COOK	17	16
				CONTRACT NO. 61J42		
ILLINOIS						



NOTES:

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)

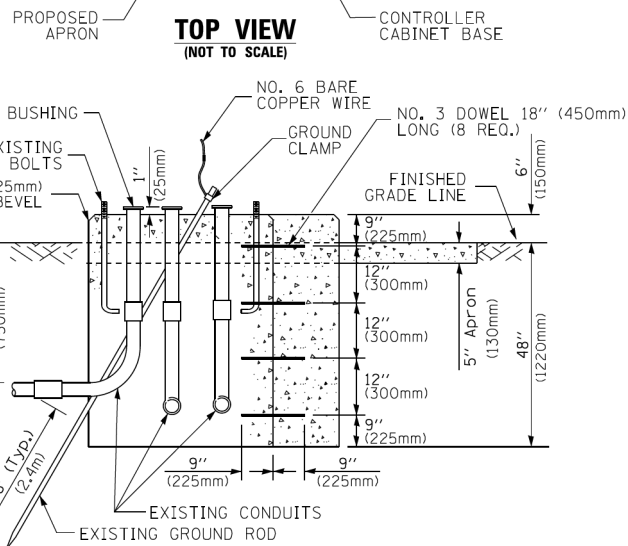
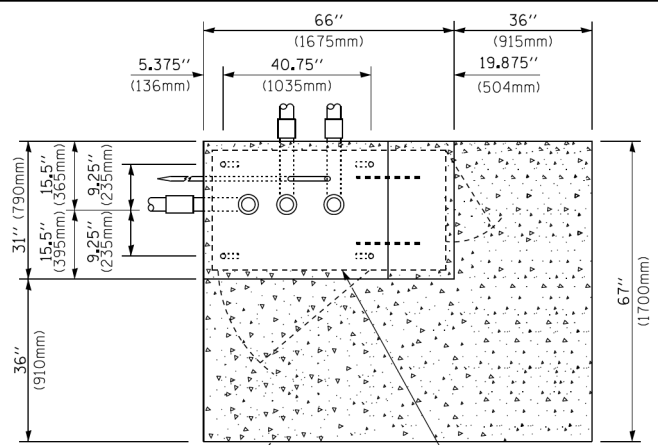


POST CAP MOUNT

MAST ARM MOUNT

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

FILE NAME =	USER NAME = foatemj	DESIGNED - DAD	REVISED - DAG 1-1-14
ca:\pw\work\pwsdot\foatemj\d0108315\ts05.dgn		DRAWN - BCK	REVISED -
PLCT SCALE = 50,0000' / 1"		CHECKED - DAD	REVISED -
PLCT DATE = 1/13/2014		DATE - 10-28-09	REVISED -



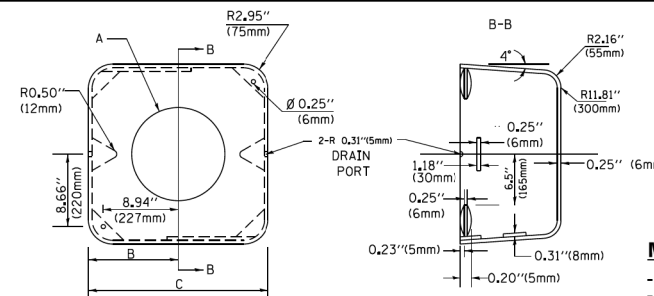
MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION
(NOT TO SCALE)

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 BUSHING
6	3/4" (19 mm) CLOSE NIPPLE
7	3/4" (19 mm) LOCKNUT
8	3/4" (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 GALVANIZED
2. ITEM #1- 02/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.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



MATERIAL:

- ASTM A36 STEEL
- ASTM A-123 HOT DIPPED GALVANIZED

A	B	C	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)

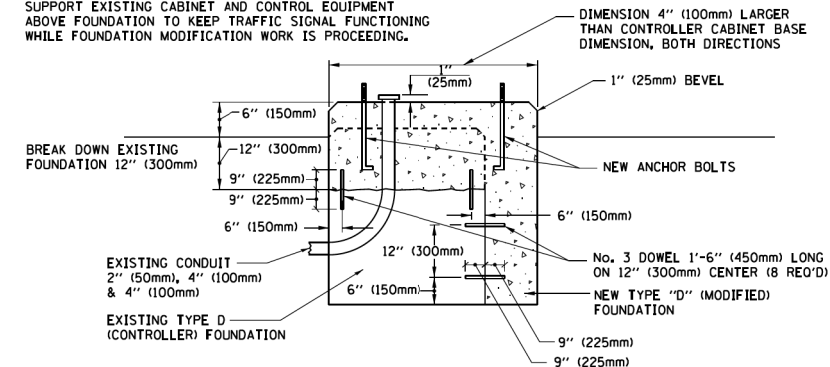
SHROUD

NOTES:

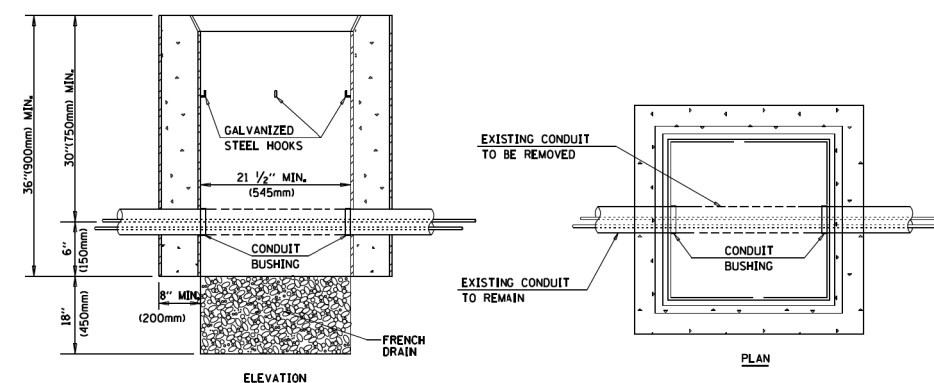
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE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

NOTE:

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



MODIFY EXISTING TYPE "D" FOUNDATION



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

DISTRICT ONE		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STANDARD TRAFFIC SIGNAL DESIGN DETAILS						
SCALE: NONE	SHEET NO. 6 OF 7 SHEETS	STA.	TO STA.	CONTRACT NO.		
		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

17-21777-019-DETAILS.dgn



USER NAME = ayju	DESIGNED - AYJ	REVISED -
PLOT CONFIG = splt0rvs*	DRAWN - AYJ	REVISED -
PLOT SCALE = 1,0000' / 1"	CHECKED - MDD	REVISED -
PLOT DATE = 4/5/2023	DATE - 04/06/23	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

WOLF ROAD PEDESTRIAN CROSSING IMPROVEMENT PROJECT PEDESTRIAN BEACON AND SIGNING DETAILS

SCALE:	SHEET	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		2689	22-00056-00-SW	COOK	17	17
		CONTRACT NO. 61J42				
		ILLINOIS				