

ROADWAY LIGHTING ESTIMATE OF QUANTITIES

TOTAL	UNITS	CODE	ITEM DESCRIPTION
12	EACH	4701	POLE 40' MTG HT
5	EACH	4722	BRACKET 8'
3	EACH	4723	BRACKET 10'
4	EACH	4725	BRACKET 15'
12	EACH	4740	POLE BASE
12	EACH	4750	TRANSFORMER BASE
1	EACH	4761	LIGHTING CONTROL EQUIPMENT
24	EACH	4780	FUSED CONNECTOR KIT
1050	LIN FT	24901EC	PVC CONDUIT - 2 INCH - SCHEDULE 80
1200	LIN FT	4820	TRENCHING AND BACKFILLING
2200	LIN FT	4832	WIRE-NO. 12
9	EACH	20391NS835	ELECTRICAL JUNCTION BOX TYPE A
1050	LIN FT	21543EN	BORE AND JACK CONDUIT
6000	LIN FT	23778EC	WIRE NO. 10
12	EACH	24589ED	LED LUMINAIRE
1200	LIN FT	24900EC	PVC CONDUIT - 1 1/4 INCH - SCHEDULE 80
1	EACH	24955ED	REMOVE SIGNAL EQUIPMENT

THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION, AND OTHER SPECIAL NOTES AND SPECIFICATIONS WILL APPLY ON THIS PROJECT. SEE SECTION 716 FOR MEASUREMENT AND OTHER DETAILS. SEE SECTION 602 FOR SPIRAL REINFORCEMENT SPLICING

THE CONTRACTOR SHALL MAKE AN INSPECTION OF THE PROJECT SITE PRIOR TO SUBMITTING A BID AND SHALL BE THOROUGHLY FAMILIARIZED WITH EXISTING CONDITIONS. SUBMISSIONS OF A BID WILL BE CONSIDERED AN AFFIRMATION OF THIS INSPECTION HAVING BEEN COMPLETED.

2/26/2026

ADD SENTENCE TO SECTION 834.06: ALL WIRE SHALL HAVE WORDING ADDED TO THE OUTER JACKET THAT STATES : " PROPERTY OF KENTUCKY TRANSPORTATION CABINET 502 564 0501".

ADD SENTENCE TO SECTION 834.09: ALL WIRE SHALL HAVE WORDING ADDED TO THE OUTER JACKET THAT STATES: " PROPERTY OF KENTUCKY TRANSPORTATION CABINET 502 564 0501".

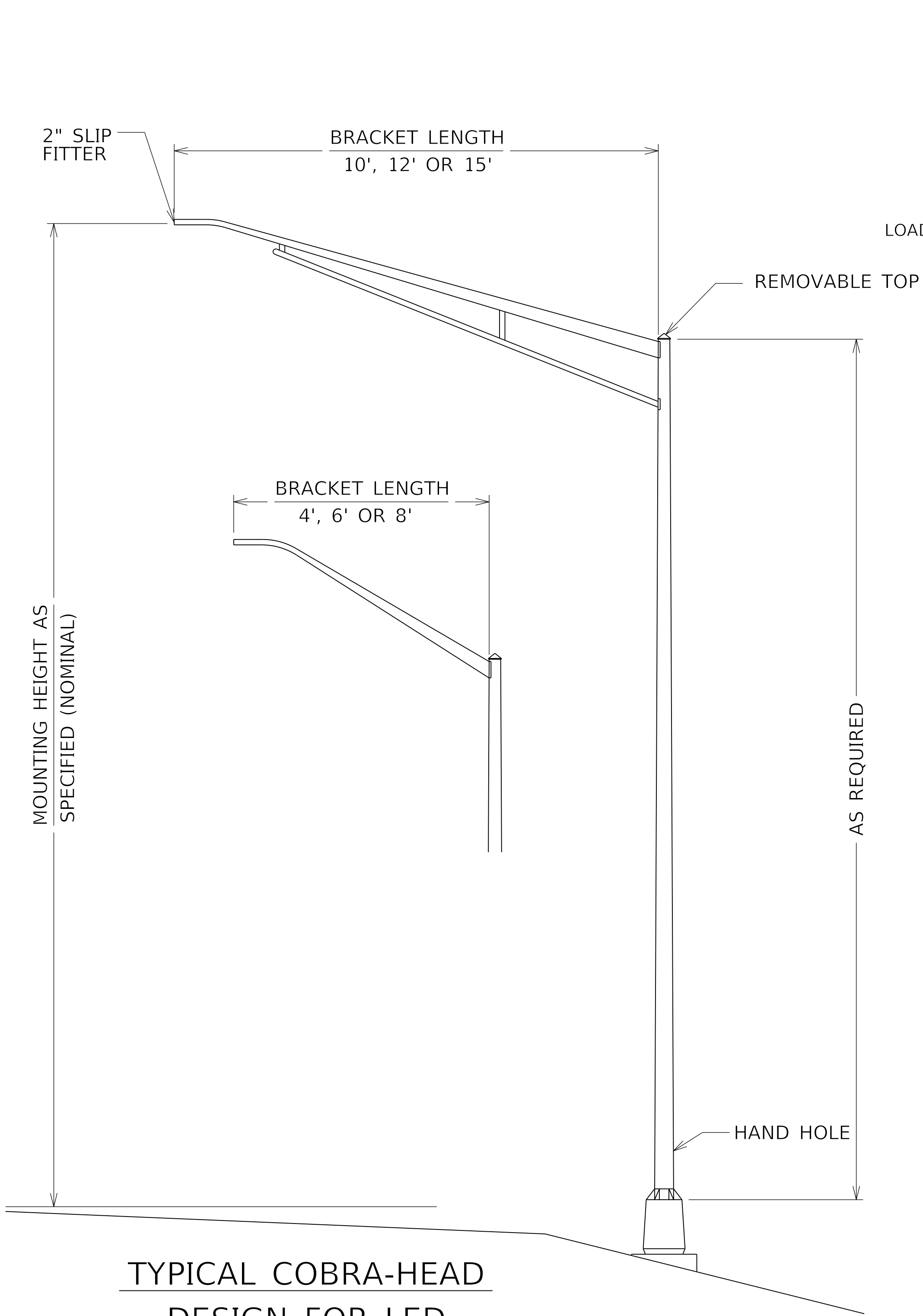
CONSTRUCTION AND MEASUREMENT NOTES THAT ARE CONTRARY TO SECTION 716 AND 834

SUBSECTION:	716.03.03 TRENCHING.
REMOVE:	REMOVE SENTENCE UNDER B); NO PAYMENT FOR ADDITIONAL JUNCTION BOXES FOR GREATER DEPTHS WILL BE ALLOWED.
SUBSECTION:	716.03.05 CONDUIT INSTALLATION
REVISION:	REPLACE THE FIRST TWO SENTENCES WITH THE FOLLOWING: PROVIDE SCHEDULE 80 PVC OR DUCT (AS STATED IN SUBSECTION 834.06) CONDUIT ENCASEMENTS FOR CONDUCTORS EXCEPT AS SPECIFIED IN THE CONTRACT. PROVIDE RIGID STEEL, SCHEDULE 80 PVC, SCHEDULE 80 HDPE, OR SDR 13.5 HDPE CONDUIT ENCASEMENT FOR ALL CONDUCTORS UNDER ANY ROAD CROSSING AND IN BASES WITH BREAKAWAY DEVICES INSTALLED EXCEPT AS SPECIFIED IN THE CONTRACT OR STATED BELOW.
REVISION:	REPLACE THE FOURTH SENTENCE WITH THE FOLLOWING: PROVIDE SCHEDULE 40 PVC, SCHEDULE 40 HDPE, OR SDR 13.5 HDPE FOR ENCASEMENT INSIDE CONCRETE BARRIER WALLS, EXCEPT FOR CONDUITS COMING IN FROM UNDER THE ROADWAY WHICH SHALL BE RIGID STEEL, SCHEDULE 80 PVC, SCHEDULE 80 HDPE, OR SDR 13.5 HDPE.
REVISION:	ADD THE FOLLOWING AT THE END OF THE PARAGRAPH: ADD A PULL STRING TO ALL SPARE CONDUITS. THE PULL STRING SHALL BE TIED OFF AT EACH END OF THE CONDUITS.
SUBSECTION:	716.03.04 (K) BORE AND JACK.
REVISION:	REPLACE TITLE WITH THE FOLLOWING: BORE AND JACK/OPEN CUT ROADWAY ADD SENTENCES AFTER LAST SENTENCE: WITH PERMISSION OF THE ENGINEER, ROADWAY MAY BE OPEN CUT IF CONDUIT IS UNDER PAVEMENT. THE CONDUIT IN OPEN CUT CAN BE EITHER 2" RIDID STEEL, SCHEDULE 80 PVC, SCHEDULE 80 HDPE, OR SDR 13.5 HDPE UNDER ALL PAVEMENTS AREAS. IF IT IS THE LOOP TRANSITION FROM THE SAW SLOT, IT SHALL BE RIGID STEEL.
SECTION:	834.15 LIGHTING POLES.
REVISION: ADD	THE FOLLOWING TO THE FIRST PARAGRAGH: THE CABINET WILL WAIVE THE REQUIREMENT STATED IN THE FIRST SENTENCE OF SECTION 5.14.6.2 - REINFORCED HOLES AND CUTOUT FOR HIGH MAST POLES (ONLY).
SUBSECTION:	834.15.03 TRANSFORMER BASES.
REMOVE:	REMOVE SENTENCE: CONSTRUCT THE DOOR OF A HIGH DENSITY POLYETHYLENE MATERIAL IN COLOR THAT MATCHES THE BASE.
REVISION:	REPLACE THE FOLLOWING SENTENCE WITH THE FOLLOWING: CONSTRUCT THE DOOR OF AN ALUMINUM MATERIAL IN A COLOR THAT MATCHES THE BASE. THE DOOR SHOULD HAVE A THEFT DETERRENT DEVICE THAT IS EQUAL TO THE LOCKDOWN LIGHTLOCK DOOR ASSEMBLY. THE DOOR LOCK WILL HAVE A LOCKING DEVICE WITH A KYTC CUSTOM KEY THAT WILL BE SEND TO CENTRAL OFFICE TRAFFIC OPERATIONS FROM THE MANUFACTURER AND BE ISSUED TO THE CONTRACTOR FOR THE INSTALLATION OF THE FINAL DOOR DEVICE. THE KEY FOR THE DOOR SHALL BE RETURNED TO CENTRAL OFFICE TRAFFIC OPERATIONS AFTER THE CLOSURE OF THE CONTRACT. THERE SHALL BE A 4" BY 6" ARC FLASH WARNING STICKER INSTALLED CENTER TOP OF EACH DOOR. THE STICKER SHALL BE METALCRAFT PLY695 PREM STYLEMARK LABEL WITH .007 THICKNESS, WITH UV WHITE POLYCARBINATE MATERIAL, AND WITH MC53FL PRESSURE SENSITIVE ADHESIVE. THE STICKER SHALL HAVE TWO COLORS OF BLACK AND CUSTOM COLOR ORANGE. THE WORDING FOR THE ARC FLASH STICKER SHALL BE THE FOLLOWING: "WARNING ARC FLASH HAZARD. APPROPRIATE PPE REQUIRED. FAILURE TO COMPLY CAN RESULT IN DEATH OR INJURY. REFER TO NFPA 70E."
SECTION:	834.33 WARNING TAPE
REVISION:	REPLACE FIRST SENTENCE WITH THE FOLLOWING: PROVIDE DETECTABLE TYPE TAPE THAT IS 6 INCHES AND 7.0 MILS (NOMINAL) THICK

CONSTRUCTION AND MEASUREMENT NOTES THAT ARE CONTRARY TO SECTION 723

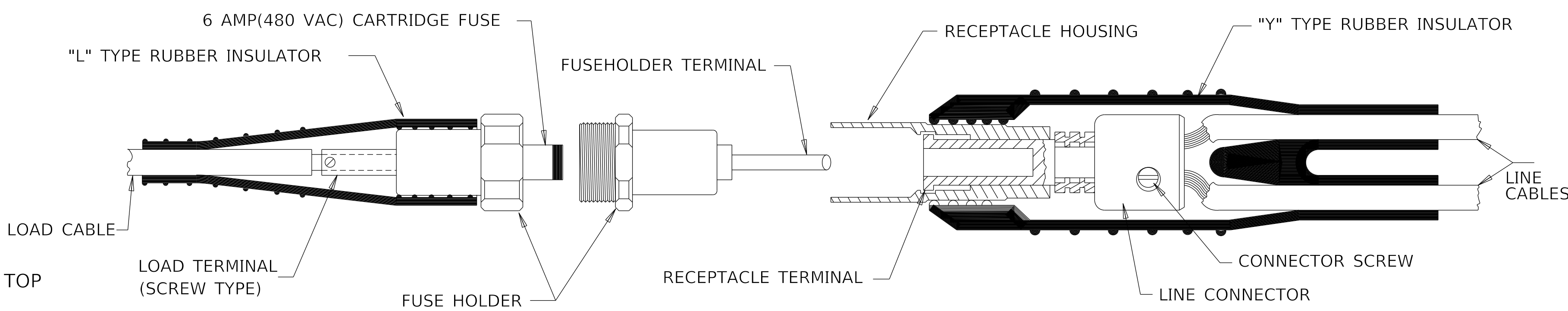
SUBSECTION:	04.22 REMOVE SIGNAL EQUIPMENT. (CONSTRUCTION ONLY)
REVISION:	REPLACE THE PARAGRAPH WITH THE FOLLOWING: THE DEPARTMENT WILL MEASURE THE QUANTITY BY EACH. THE DEPARTMENT WILL NOT MEASURE BACKFILLING AND THE DISPOSAL OR TRANSPORTATION OF EQUIPMENT AND MATERIALS ASSOCIATED WITH ANY STRUCTURAL OR ELECTRICAL COMPONENT OF THE SIGNAL SYSTEM INCLUDING, BUT NOT LIMITED TO POLE BASES, POLES, JUNCTION BOXES, CABINETS, AND WOOD POLES FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK. THE DEPARTMENT WILL MEASURE THE QUANTITY BYEACH. THE DEPARTMENT WILL NOT MEASURE BACKFILLING AND THE DISPOSAL TRANSPORTATION OF EQUIPMENT AND MATERIALS ASSOCIATED WITH ANY STRUCTURAL OR ELECTRICAL COMPONENT OF THE SIGNAL SYSTEM INCLUDING, BUT NOT LIMITED TO POLE BASES, POLES, JUNCTION BOXES, CABINETS, AND WOOD POLES FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

BREAKAWAY FUSE CONNECTOR KIT



TYPICAL COBRA-HEAD
DESIGN FOR LED
LUMINAIRES

SPECIAL NOTE:
ALL LUMINAIRES SHALL HAVE THE NEMA LABEL
INSTALL ON THE BOTTOM OF THE FIXTURE TO
VERIFY THE WATTAGE.
LABEL LUMINAIRE TYPES AS C2



DETAILS OF TYPE HEB-JW-RYC CONNECTOR

DESIGN CRITERIA FOR LED
LUMINAIRES AT KY-90 & KY-92 ROUNDABOUT

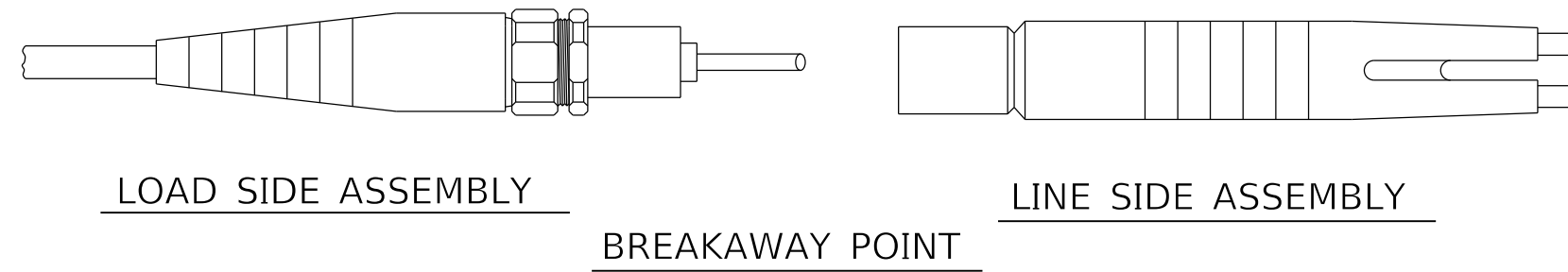
ZONE 1 (SOUTH APPROACH) CRITERIA
MINIMUM: NOT LESS THAN 0.50 FOOTCANDLES
AVERAGE: NOT MORE THAN 1.00 FOOTCANDLES
AVERAGE/MINIMUM: NOT MORE THAN 2:1 FOOTCANDLES

ZONE 2 (NORTH APPROACH) CRITERIA
MINIMUM: NOT LESS THAN 0.30 FOOTCANDLES
AVERAGE: NOT MORE THAN 0.82 FOOTCANDLES
AVERAGE/MINIMUM: NOT MORE THAN 3:1 FOOTCANDLES

ZONE 3 (EAST APPROACH) CRITERIA
MINIMUM: NOT LESS THAN 0.40 FOOTCANDLES
AVERAGE: NOT MORE THAN 1.00 FOOTCANDLES
AVERAGE/MINIMUM: NOT MORE THAN 2.5:1 FOOTCANDLES

ZONE 4 (WEST APPROACH) CRITERIA
MINIMUM: NOT LESS THAN 0.30 FOOTCANDLES
AVERAGE: NOT MORE THAN 1.00 FOOTCANDLES
AVERAGE/MINIMUM: NOT MORE THAN 3.2:1 FOOTCANDLES

ZONE 5 (ROUNDAABOUT CENTER) CRITERIA
MINIMUM: NOT LESS THAN 0.60 FOOTCANDLES
AVERAGE: NOT MORE THAN 1.25 FOOTCANDLES
AVERAGE/MINIMUM: NOT MORE THAN 2:1 FOOTCANDLES



TYPE HEB-JW-RYC CONNECTOR SHOWN

LUMINAIRE DESIGN:

COBRA-HEAD LUMINAIRES
LAMP WATTAGE: TYPE C SHALL NOT EXCEED 124 WATTS AND 18,229 LUMENS.
DISTRIBUTION FOR TYPE C LUMINAIRES IS TYPE II

LUMINAIRE DESIGNATION EXAMPLE

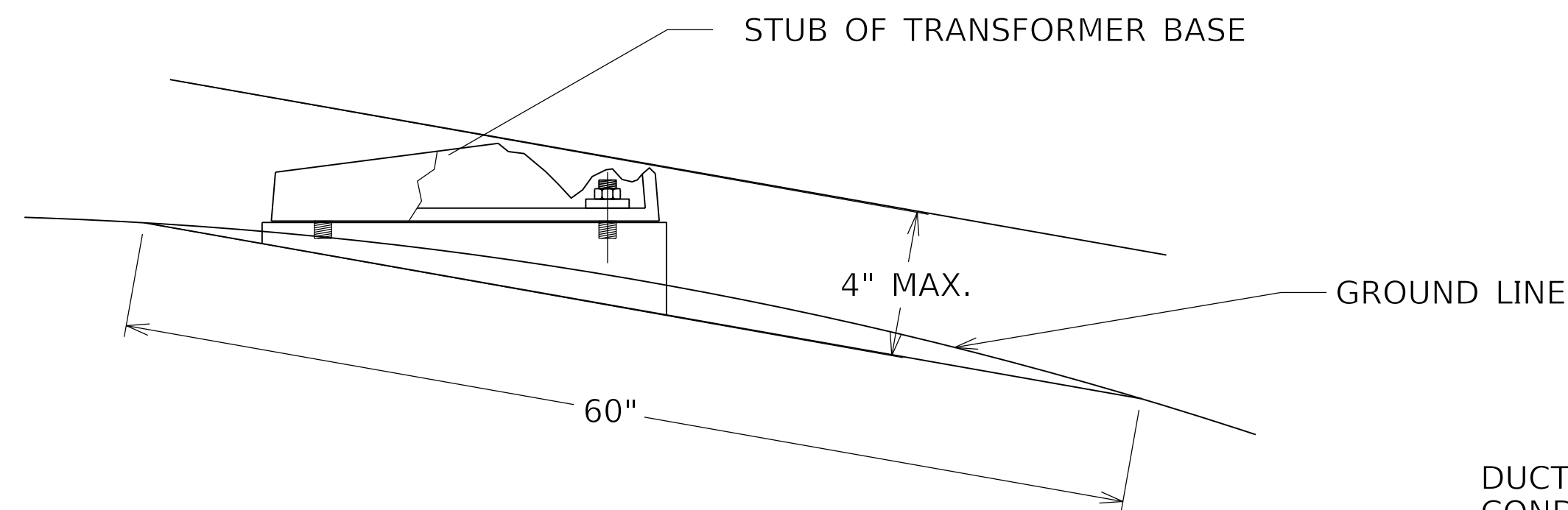
2 - 7 - A - 6

MAST ARM LENGTH
LUMINAIRE EQUIVALENT
LUMINAIRE NUMBER IN CIRCUIT
CIRCUIT NUMBER

NOTE: IF NO SETBACK DIMENSION IS INDICATED, THE MAST ARM LENGTH DENOTES THE DISTANCE FROM THE RIGHT EDGE OF PAVEMENT TO CENTER OF POLE BASE.

NOTE:
ALL TYPE A LUMINAIRES ARE MOUNTED AT 30' (NOMINAL) LED EQUIVALENT TO 100 WATTS HPS.
ALL TYPE B LUMINAIRES ARE MOUNTED AT 30' (NOMINAL) LED EQUIVALENT TO 150 WATTS HPS.
ALL TYPE C LUMINAIRES ARE MOUNTED AT 40' (NOMINAL) LED EQUIVALENT TO 250 WATTS HPS.
ALL TYPE D LUMINAIRES ARE MOUNTED AT 40' (NOMINAL) LED EQUIVALENT TO 400 WATTS HPS.

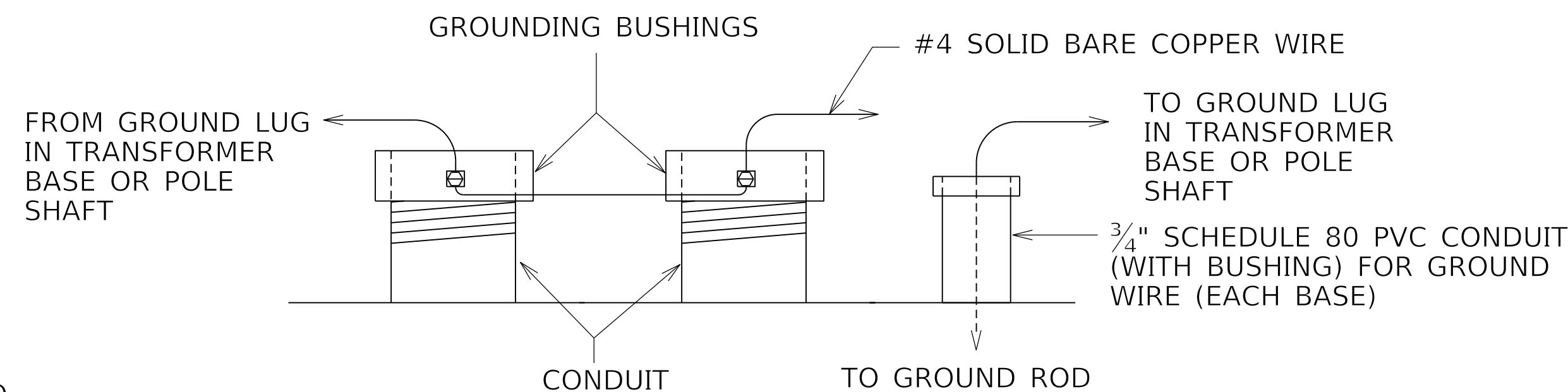
4/24/2017



THE ANCHOR BOLTS AND CONDUITS SHALL NOT BE PROJECTED MORE 4 INCHES ABOVE A GROUND LINE BETWEEN THE STRADDLING WHEELS OF A VEHICLE.

BREAKAWAY SUPPORT STUB HEIGHT MEASUREMENT

IF DUCTED CABLE INSTALLED BETWEEN POLE BASES:
INSTALL RIGID STEEL/DUCTED CABLE COUPLING. USE BONDUIT CONDUIT ADHESIVE OR APPROVED EQUAL TO CONNECT THE RIGID STEEL TO DUCTED CABLE. RACEWAYS SHALL BE THE SAME SIZE AS THE DUCTED CABLE WHICH ATTACHES TO THE RIGID STEEL CONDUIT. ALTERNATELY IF DUCTED CABLE IS USED, THE CONTRACTOR CAN INSTALL RIGID STEEL CONDUIT TWO TIMES THE SIZE OF THE DUCT AND RUN THE DUCT INSIDE THIS CONDUIT. THE SWEEP FOR THE CONDUIT SHALL BE INCREASED TO ADHERE TO THE BENDING RADIUS RECOMMENDED BY THE MANUFACTURER OF THE DUCT.



TYPICAL GROUNDING DETAIL

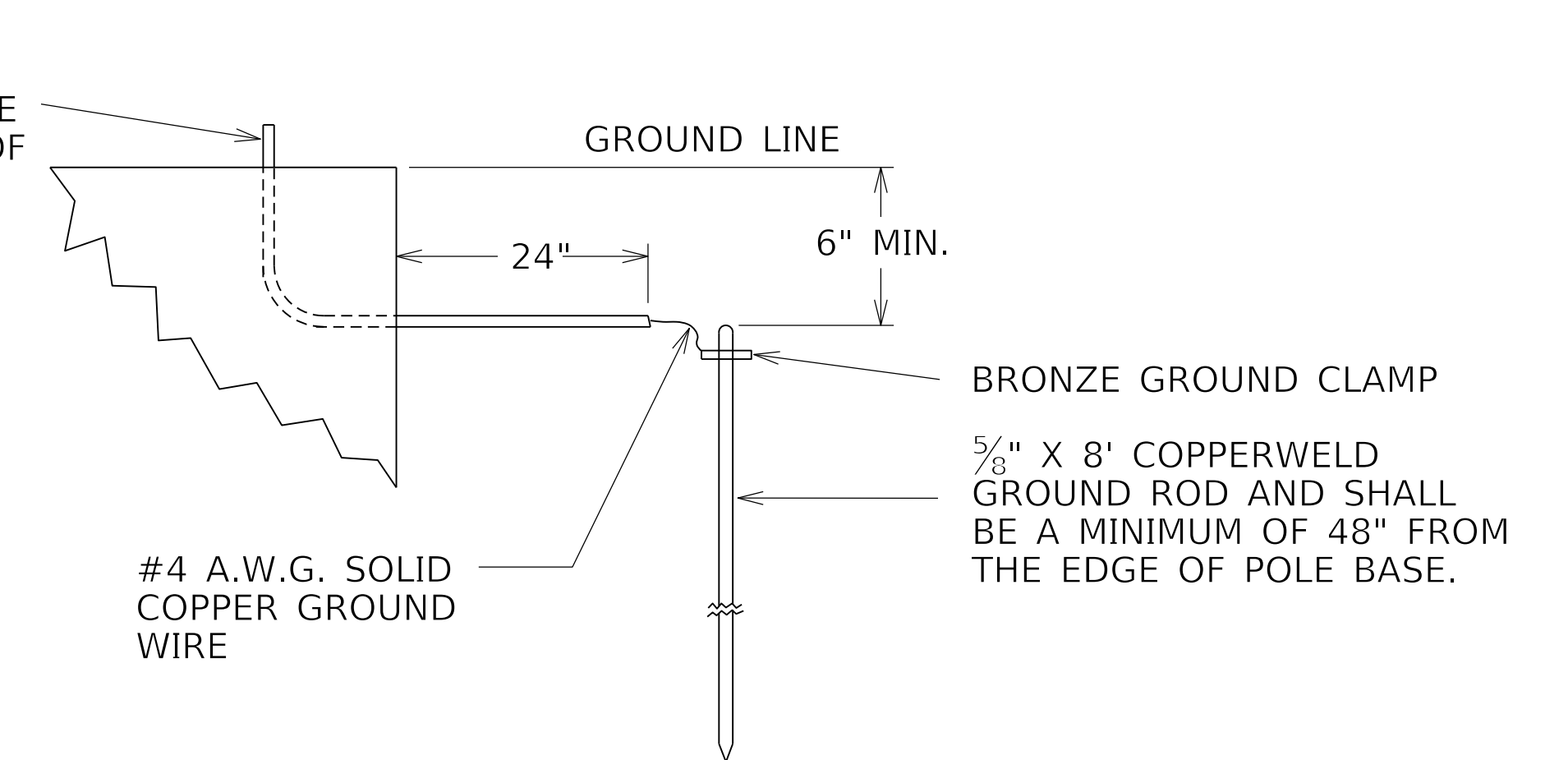
GROUNDING REQUIREMENTS:

CONTRACTOR SHALL PROVIDE A MINIMUM OF 6 INCHES OF GROUND WIRE FOR TESTING PRIOR TO CONNECTING THE WIRE TO TRANSFORMER BASE.

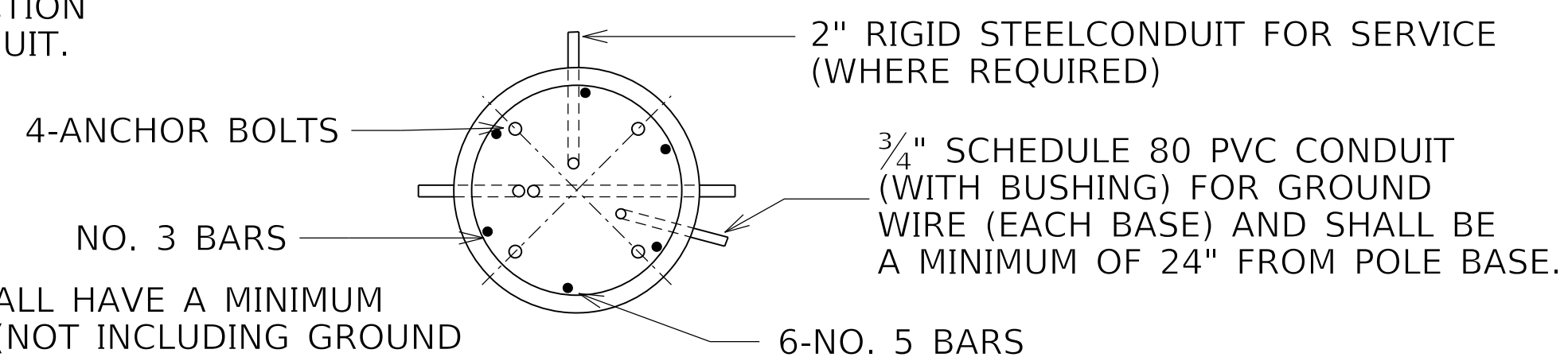
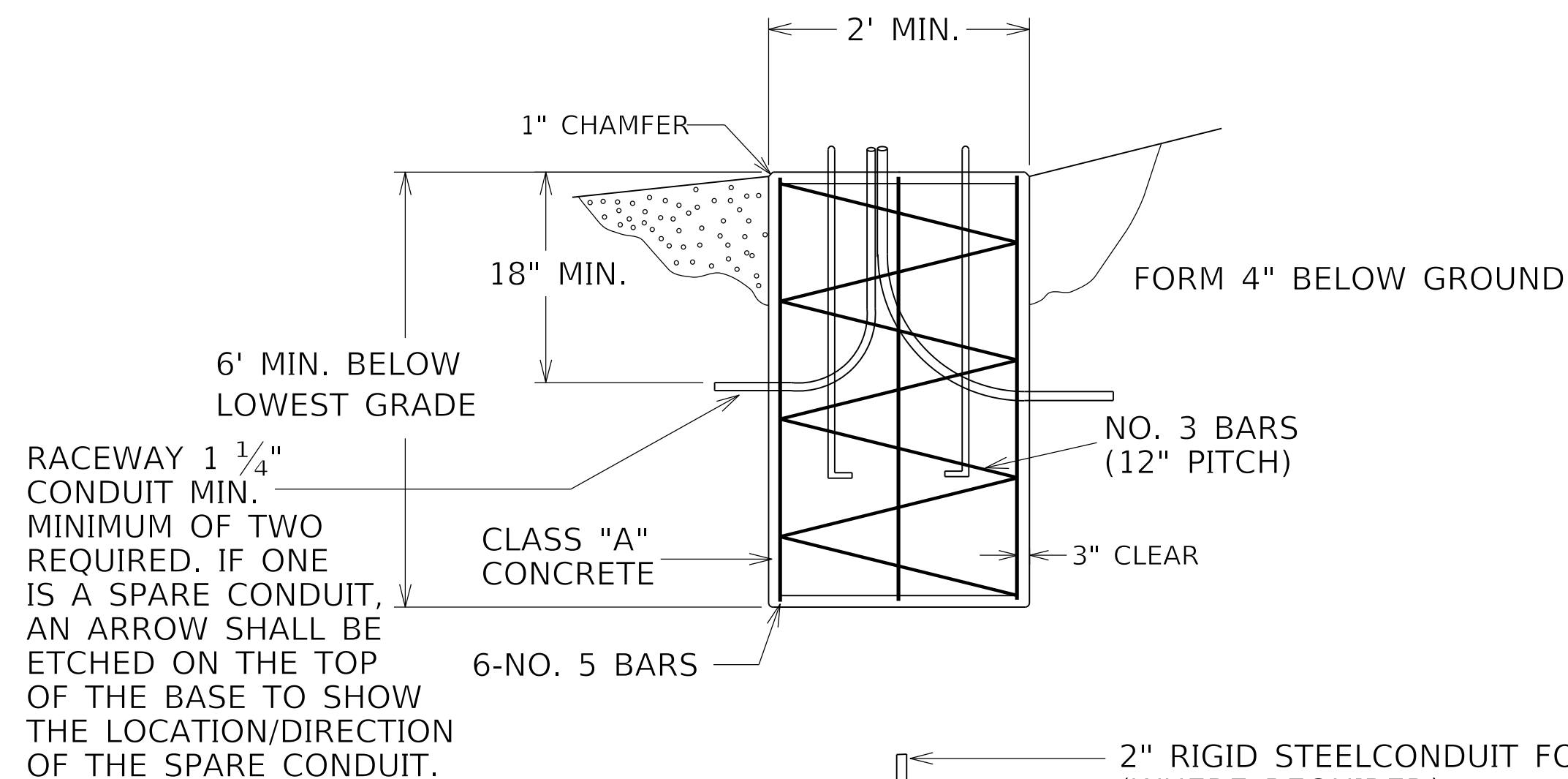
POLE/TRANSFORMER BASE GROUND - GROUND WIRE SHALL COME FROM THE GROUND ROD THROUGH THE PVC CONDUIT, CONNECTING TO THE TRANSFORMER BASE/POLE AND THEN TO EACH RIGID STEEL GROUNDING BUSHING.

NOTES:

ALL CONDUITS USED FOR THE GROUNDING, SPARES AND CONDUCTORS THAT ARE INSTALLED IN THE POLE BASE ARE INCIDENTAL TO BID ITEM "4740". THIS INCLUDES PROVIDING A MINIMUM OF 24 INCHES OF CONDUIT PAST THE EDGE OF THE POLE BASE.

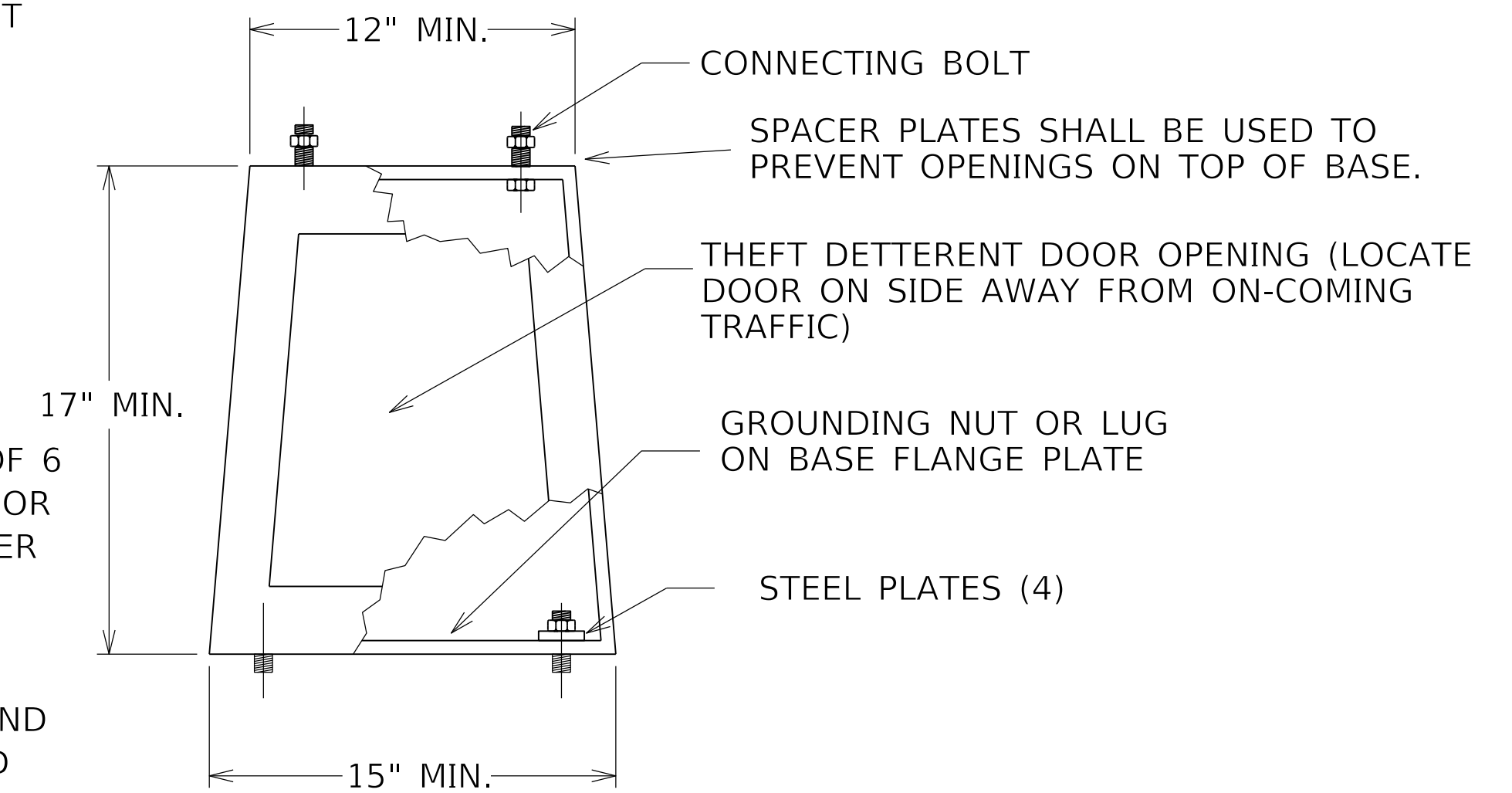


GROUNDING DETAIL



ALL POLE BASES SHALL HAVE A MINIMUM OF TWO CONDUITS (NOT INCLUDING GROUND CONDUIT). THE SPARE CONDUIT SHALL BE 180 DEGREE FROM THE CONDUIT FOR THE CONDUCTORS.

NOTE: PRECAST CONCRETE
BASES ARE NOT
ACCEPTABLE

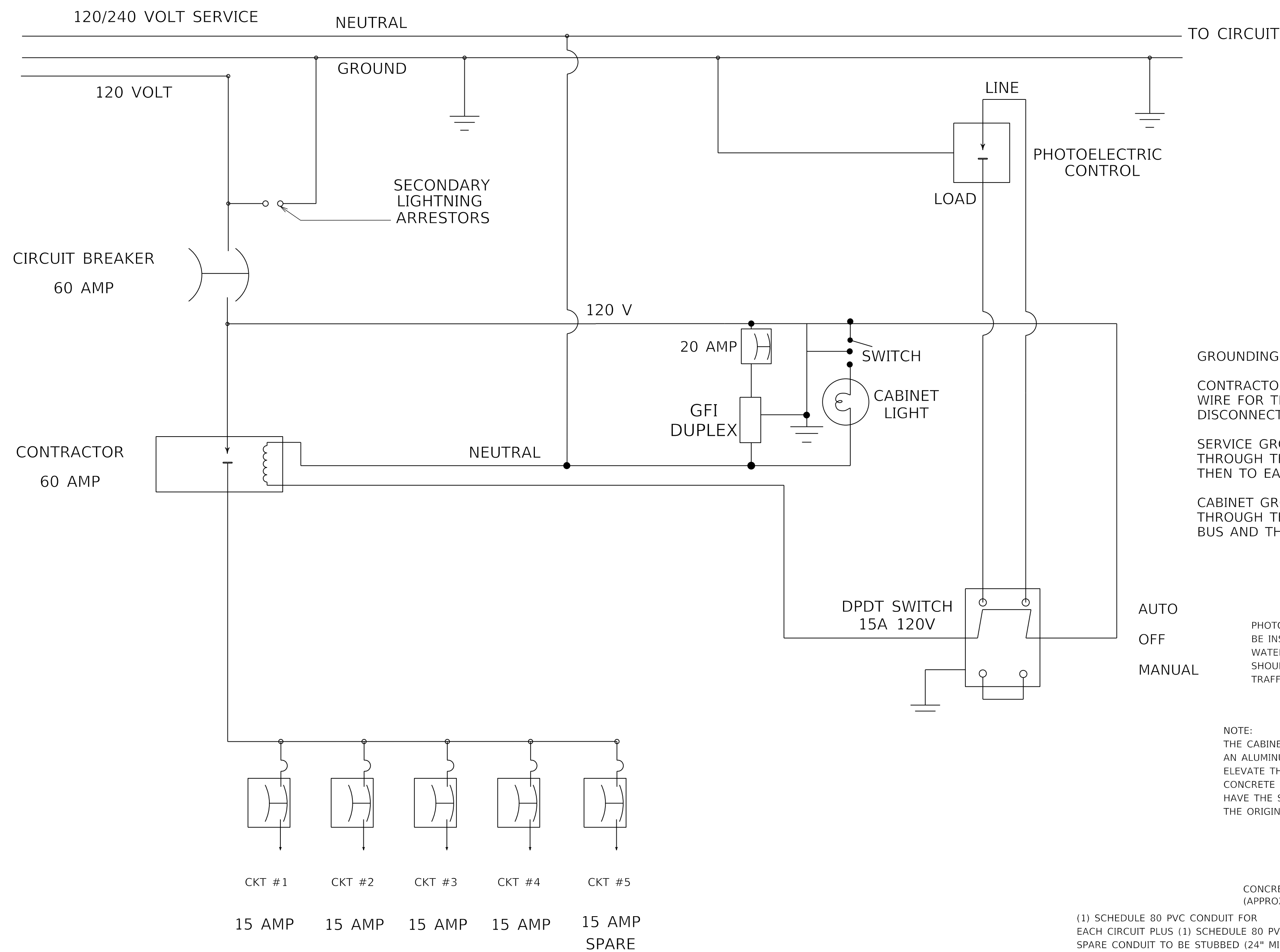


CONCRETE BASES SHALL BE POURED LEVEL.
NO MORE THAN A .375" GAP SHALL EXIST BETWEEN
CONCRETE BASE AND TRANSFORMER BASE WHEN THE
POLE IS PLUMBED.

POLE IS PLUMBED. TYPICAL
CAST ALUMINUM TRANSFORMER BASE

NOTE:
E THE TRANSFORMER BASE DOOR SHALL HAVE
A 4" BY 6" ARC FLASH WARNING STICKER
INSTALL 3" FROM THE TOP OF THE DOOR.
THE STICKER SHALL BE METALCRAFT
PLY695 PREM STYLEMARK LABEL WITH
.007 THICKNESS, WITH UV WHITE
POLYCARBONATE MATERIAL, AND WITH
MC53FL PRESSURE SENSITIVE ADHESIVE
OR APPROVAL EQUAL. THIS SHALL BE
INCIDENTAL TO PROJECT.

SPECIAL NOTE FOR TRANSFORMER BASES:
FURNISH AN ARC FLASH AND SHOCK HAZARD
WARNING STICKER ON TRANSFORMER BASE
WITH
THE FOLLOWING INFORMATION:
VOLTAGE (480 VOLT)
GLOVE CLASS (0)
LIMITED APPROACH BOUNDARY (42 IN)
RESTRICTED APPROACH BOUNDARY (12 IN)
MINIMUM CLOTHING ARC RATING (CAT 2)
SEE NFPA 70E FOR ADDITIONAL PPE
REQUIRED

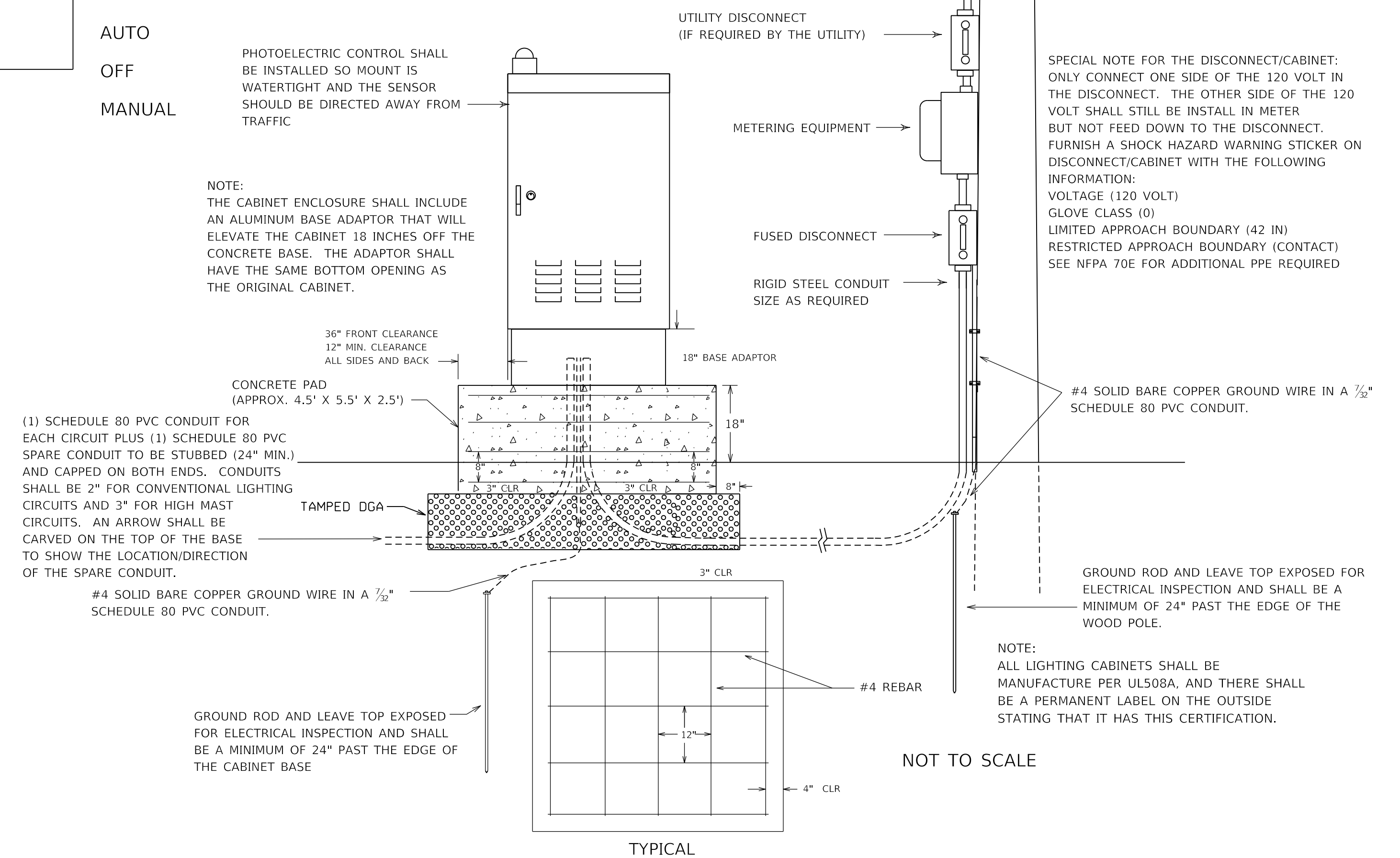


GROUNDING REQUIREMENTS:

CONTRACTOR SHALL PROVIDE A MINIMUM OF 6 INCHES OF GROUND WIRE FOR TESTING PRIOR TO CONNECTING THE WIRE TO ANY DISCONNECT, CABINET OR POLE.

SERVICE GROUND - GROUND WIRE SHALL COME FROM THE GROUND ROD THROUGH THE PVC CONDUIT, CONNECTING TO THE DISCONNECT AND THEN TO EACH RIGID STEEL (R S) GROUNDING BUSHING.

CABINET GROUND - GROUND WIRE SHALL COME FROM THE GROUND ROD THROUGH THE PVC CONDUIT, CONNECTING TO THE CABINET GROUND BUS AND THEN TO EACH R S GROUNDING BUSHING.



NOTES:

CONTRACTOR SHALL INSTALL ALL LIGHTING CONTROL EQUIPMENT AS INDICATED.

CONCRETE SHALL BE CLASS A. CONCRETE SHALL BE
POURED ON 12" OF POWER TAMPED DENSE GRADE ROCK.
PAD SHALL BE 30" THICK WITH 18" ABOVE GRADE.

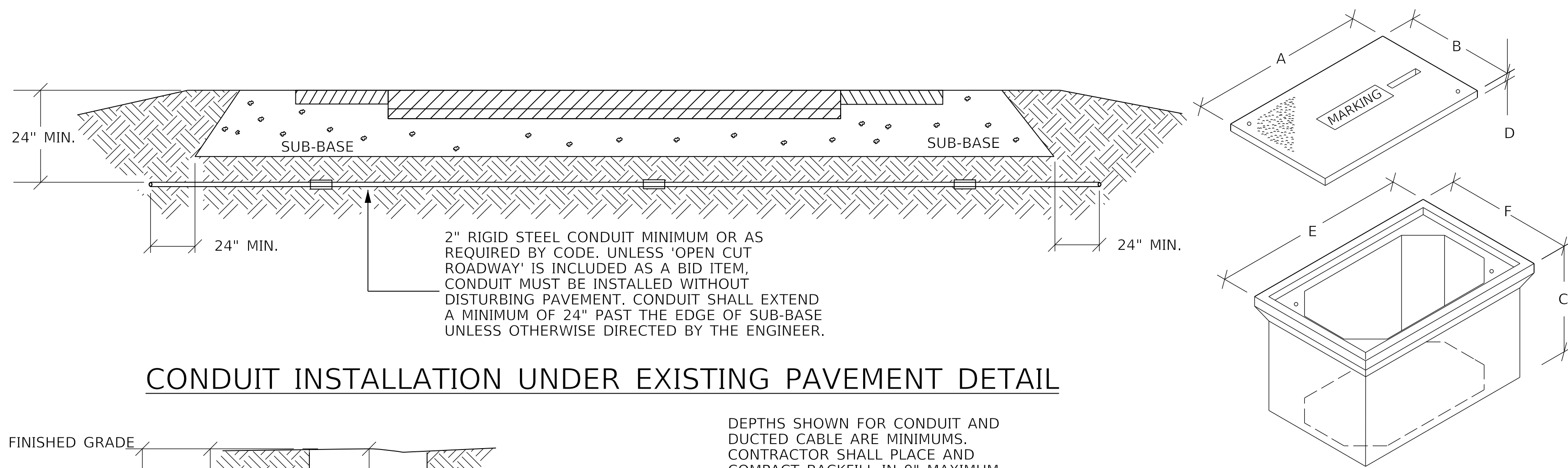
PAD SHALL BE OF SUFFICIENT SIZE TO ALLOW A MINIMUM 36" IN FRONT OF THE CABINET AND 12" MINIMUM CLEARANCE AROUND THE SIDES AND BACK OF THE CABINET.

CONCRETE SHALL BE SLOPED 1/8" PER FOOT TO PREVENT
STANDING WATER. OUTSIDE EDGE SHALL HAVE A ONE INCH
CHAMFER.

#4 REBAR SHALL BE COMPRISED OF RUNS AS SHOWN AND TIED AT EACH JOINT.

ALL CONSTRUCTION (TO INCLUDE EXCAVATION WORK) AND MATERIALS (CONCRETE , STEEL REINFORCEMENT, ETC.) FOR THE CONCRETE PAD SHALL BE INCIDENTAL TO THE POLE FOR THE LIGHTING CONTROL EQUIPMENT BID ITEM.

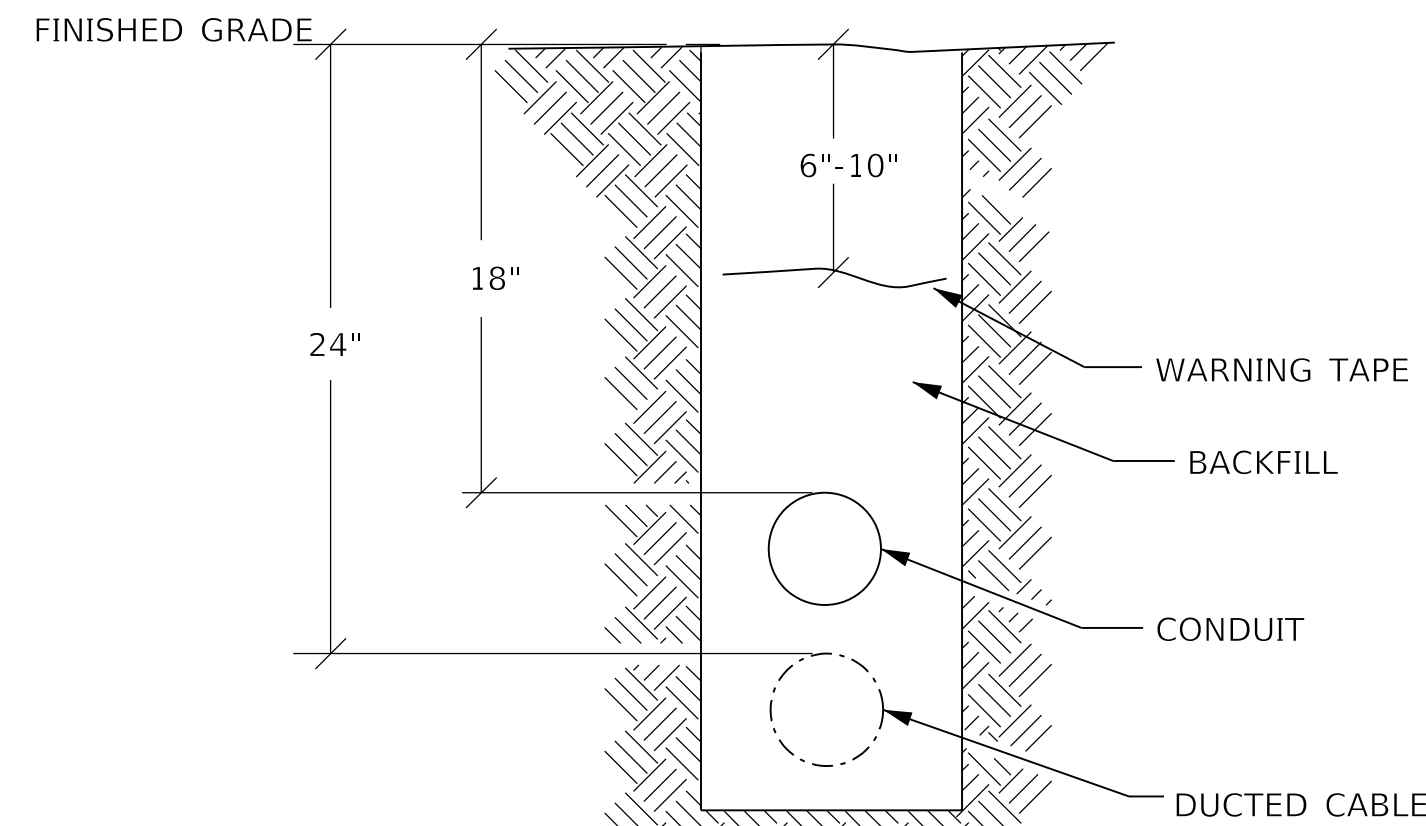
ALL CONDUITS USED FOR GROUNDING, SPARE, AND SERVICE THAT ARE INSTALLED ON THE POLE AND/OR IN/TO THE CABINET ARE INCIDENTAL TO BID ITEM "4761". THIS INCLUDES PROVIDING A MINIMUM OF 24 INCHES OF CONDUIT PAST THE EDGE OF THE CABINET BASE FOR THE SPARE.



JUNCTION BOX DIMENSIONS (NOMINAL)						
	A	B	C	D	E	F
TYPE A	23"	14"	27"	2"	25"	15"
TYPE B	18"	11"	12"	1 1/2" *	20"	13"
TYPE C	36"	24"	30"	3"	38"	26"

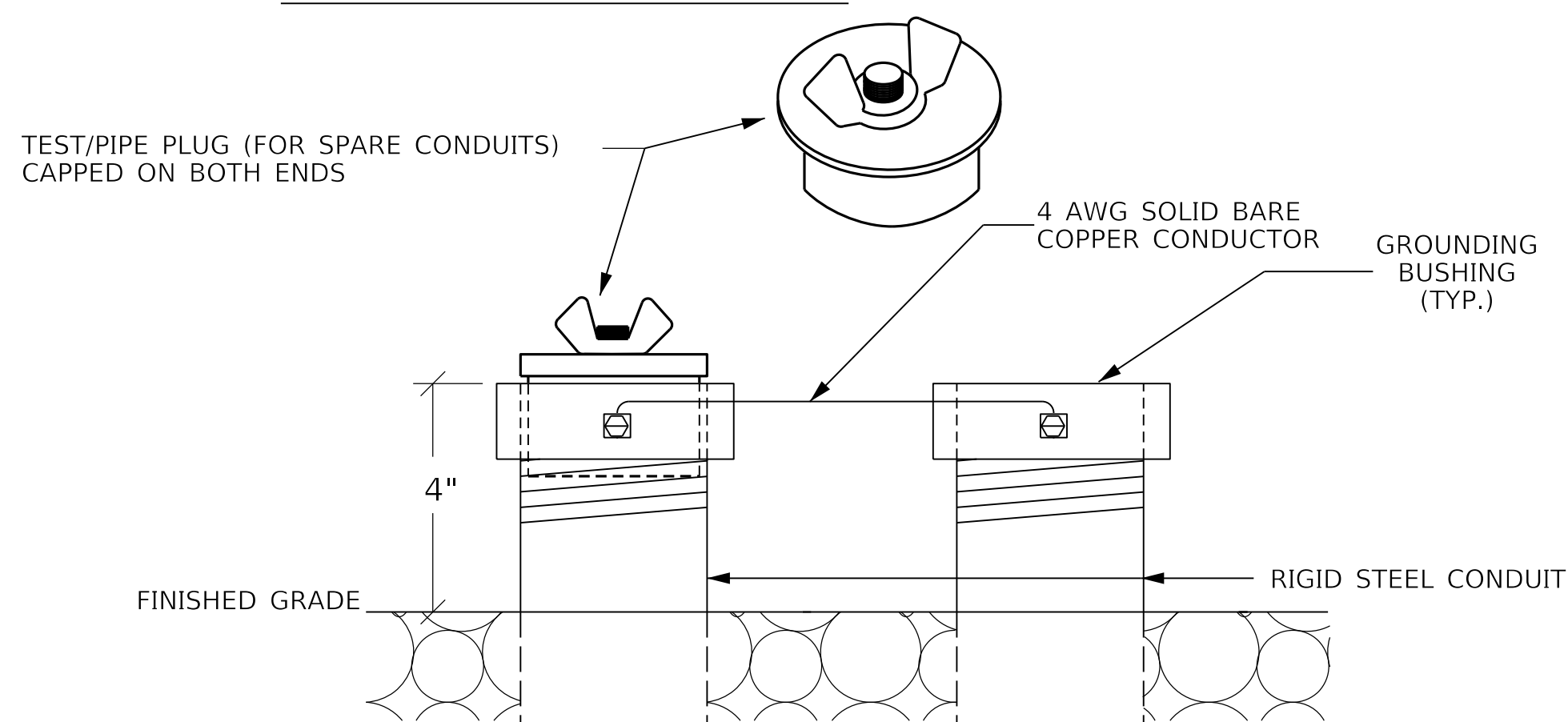
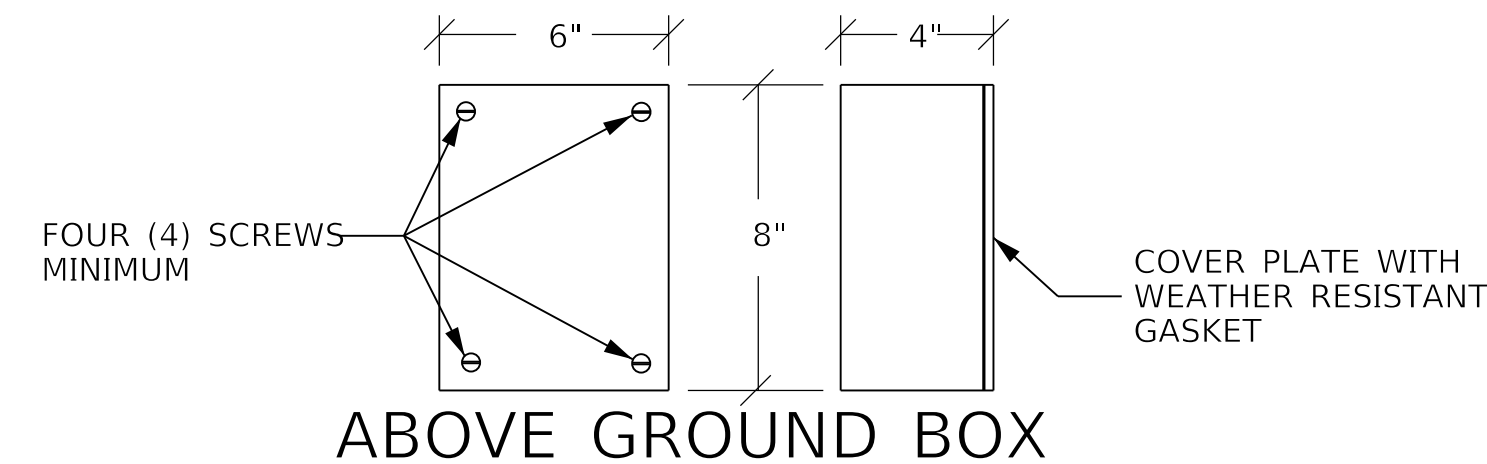
* MINIMUM
NOTE: STACKABLE
BOXES ARE PERMITTED

CONDUIT INSTALLATION UNDER EXISTING PAVEMENT DETAIL



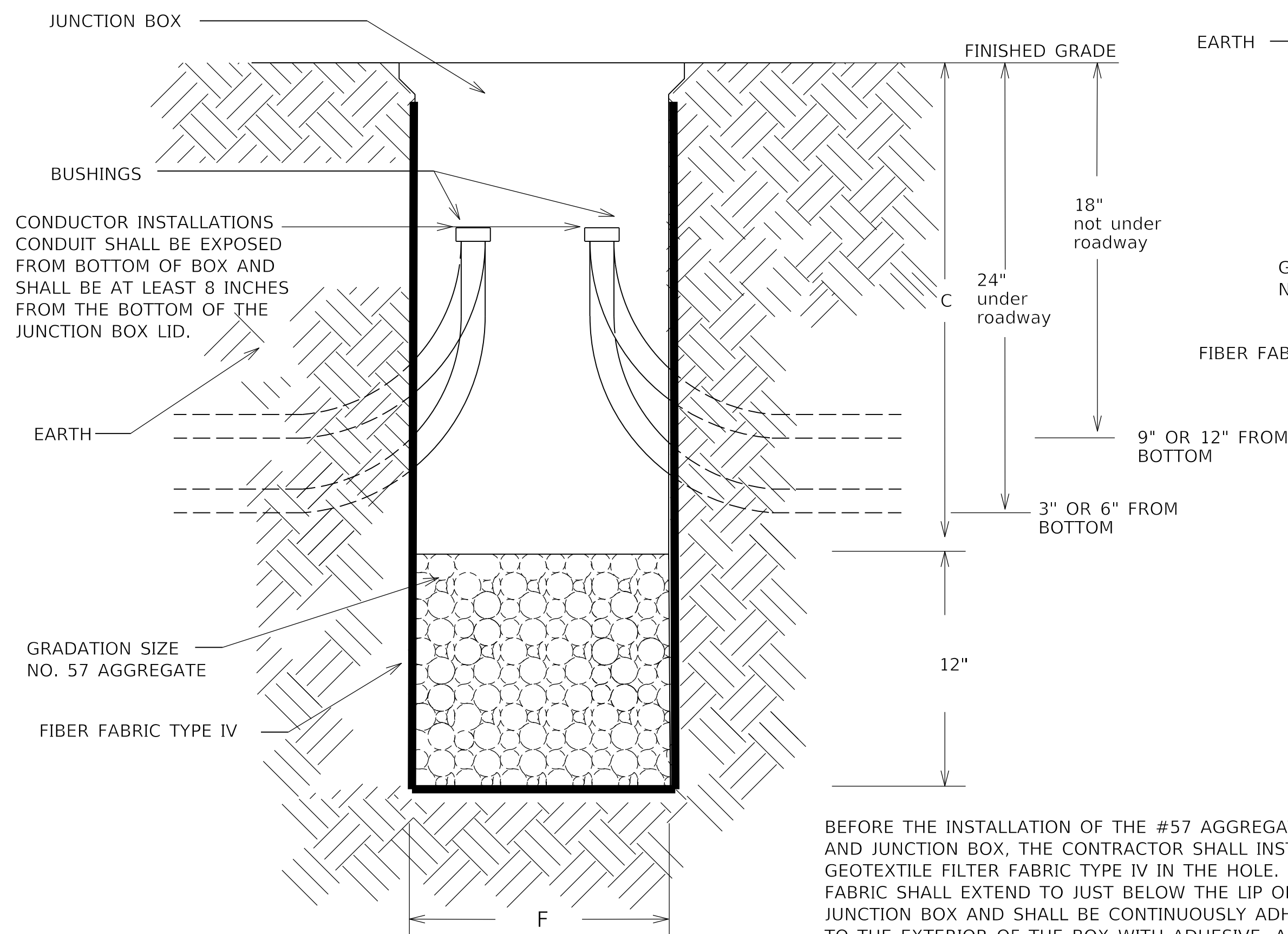
CONDUIT, DUCTED CABLE, AND WARNING TAPE TRENCH

ABOVE GROUND BOX SHALL BE FABRICATED FROM MINIMUM 12 GAUGE STEEL AND GALVANIZED AFTER FABRICATION. BOXES SHALL HAVE NO KNOCKOUTS AND SHALL BE PROVIDED WITH A PLATE COVER WITH A WEATHER RESISTANT GASKET AND A MINIMUM OF FOUR SCREWS FOR ATTACHING THE PLATE COVER TO THE BOX. CABLE CLAMPS SHALL BE PROVIDED FOR CABLES ENTERING AND EXITING THE BOX.

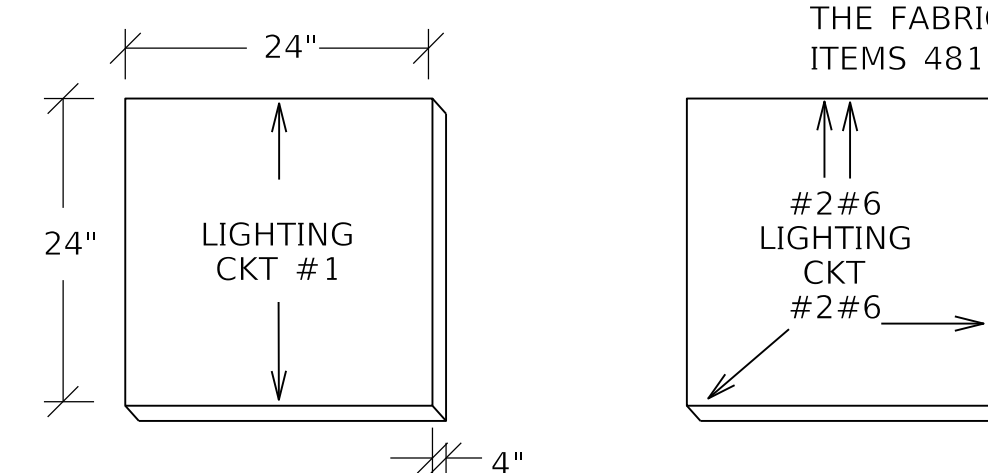


3/13/2017 TEST/PIPE PLUG(FOR SPARE CONDUITS) AND GROUNDING DETAIL

DEPTHS SHOWN FOR CONDUIT AND DUCTED CABLE ARE MINIMUMS. CONTRACTOR SHALL PLACE AND COMPACT BACKFILL IN 9" MAXIMUM LIFTS AND RETORE DISTURBED AREA TO THE SATISFACTION OF THE ENGINEER.

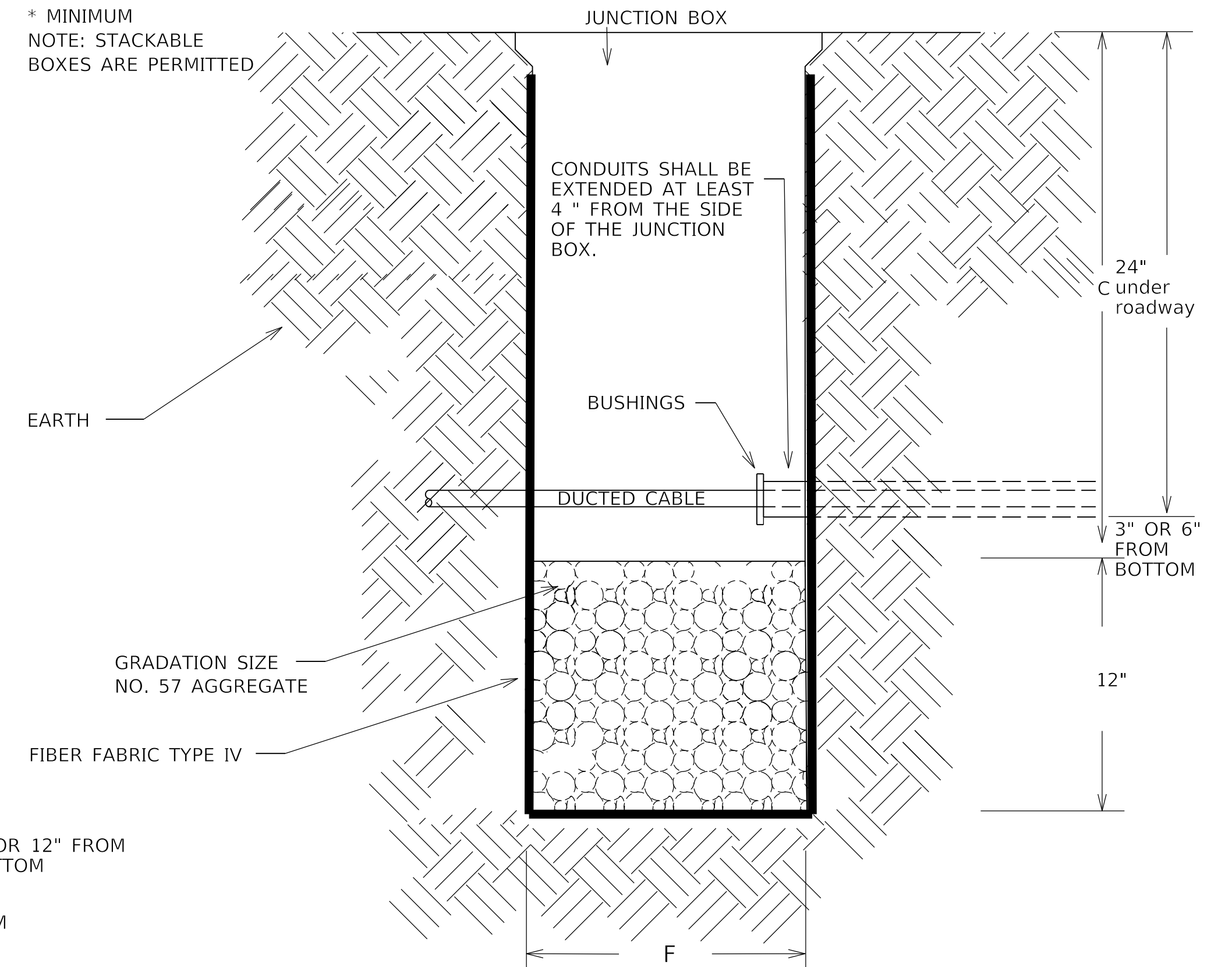


JUNCTION BOX INSTALLATION FOR CONVENTIONAL LIGHTING

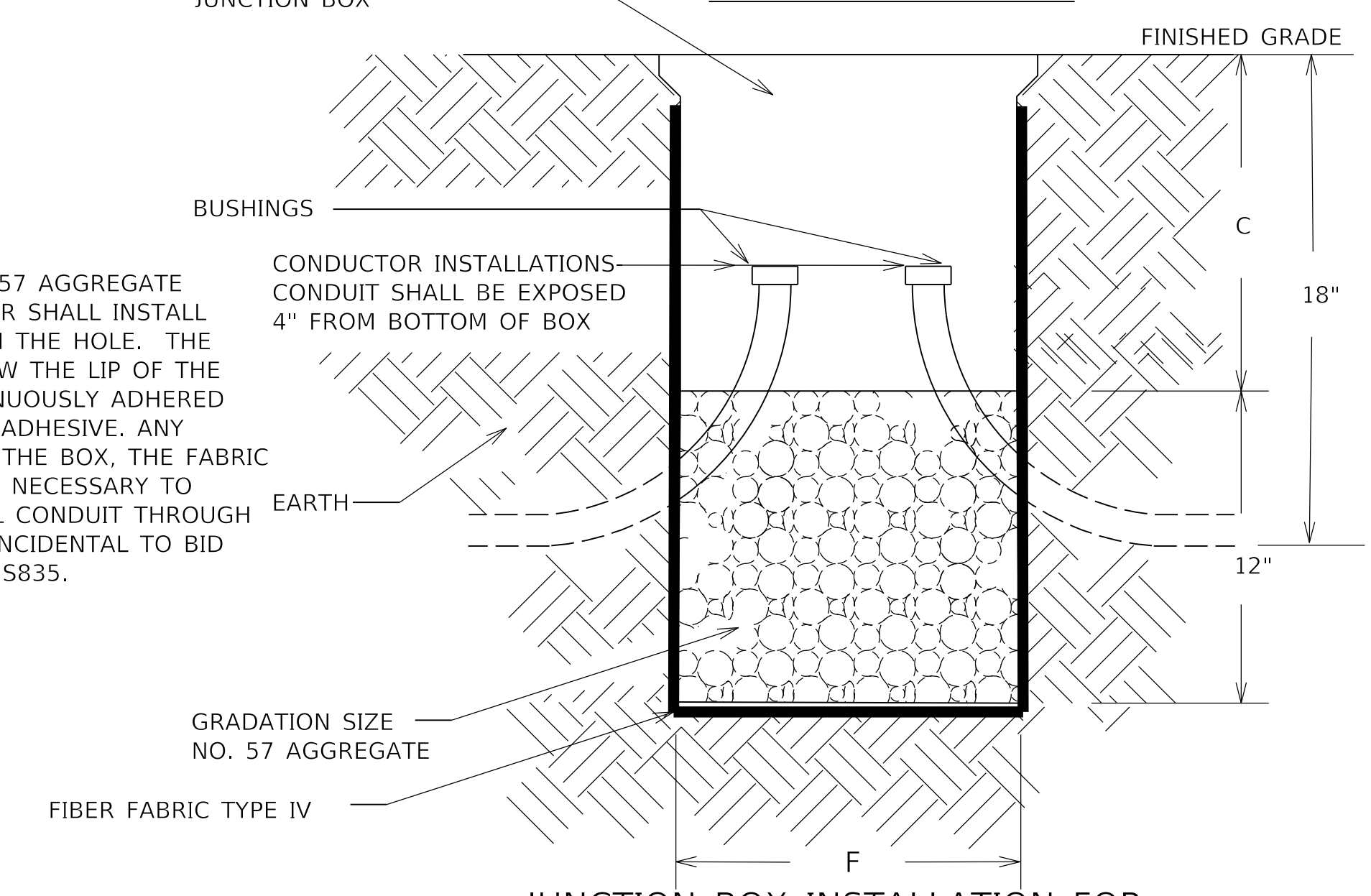


CONCRETE CABLE MARKERS

BEFORE THE INSTALLATION OF THE #57 AGGREGATE AND JUNCTION BOX, THE CONTRACTOR SHALL INSTALL GEOTEXTILE FILTER FABRIC TYPE IV IN THE HOLE. THE FABRIC SHALL EXTEND TO JUST BELOW THE LIP OF THE JUNCTION BOX AND SHALL BE CONTINUOUSLY ADHERED TO THE EXTERIOR OF THE BOX WITH ADHESIVE. ANY LOCATIONS WHERE CONDUITS ENTER THE BOX, THE FABRIC SHALL BE "X CUT" ONLY AS MUCH AS NECESSARY TO ALLOW PASSAGE OF EACH INDIVIDUAL CONDUIT THROUGH THE FABRIC. THE FABRIC SHALL BE INCIDENTAL TO BID ITEMS 4811, 20391NS835, OR 20392NS835.



JUNCTION BOX INSTALLATION FOR HIGHMAST LIGHTING



JUNCTION BOX INSTALLATION FOR TRAFFIC SIGNALS



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



DRAWING TITLE: ROUNDABOUT LIGHTING
KY-90 & KY-92

TRAFFIC SIGNAL AND
ROADWAY LIGHTING
JUNCTION BOX AND CONDUIT DETAILS

ITEM NO.
8-956
COUNTY OF
WAYNE
SHEET NO.
T5

CONVENTIONAL LIGHTING:

ALL POLES SHALL HAVE A #12 AWG GREEN GROUND WIRE RUN FROM BOTTOM OF POLE TO THE LUMINAIRE FOR GROUNDING . ALL POLES SHALL HAVE A GREEN WIRE THE SAME SIZE AS THE CIRCUIT WIRE RUN FROM POLE TO POLE FOR GROUNDING. GROUNDING WIRES SHALL BE CONNECTED TO GROUNDING LUGS ON CONDUITS OR ON THE POLE/TRANSFORMER BASE.

POLE HEIGHTS, ARM LENGTHS AND SETBACKS ARE DENOTED AS STATED ON "LUMINAIRE DESIGNATION EXAMPLE" ON LUMINAIRE/FUSE CONNECTOR DETAIL SHEET.

POLES SHALL BE PLACED AS CLOSE TO STATIONS AS STATED ON PLANS TO PROVIDE PROPER ILLUMINATION. IF ANY POLE NEEDS TO BE MOVED FROM THE STATION INDICATED, C.O. TRAFFIC SHALL BE CONTACTED AT 502-564-3020.

NEED METAL LUG INSTALLED ON THE NEUTRAL SIDE OF THE FUSED CONNECTOR KIT.

POLE SCHEDULE

POLE ID	NORTHING	EASTING	LATITUDE	LONGITUDE
1-1-C-15	1827475.228	16021898955.470	36°50'37.64"N	84°51'59.28"W
1-2-C-8	1827539.236	16021899094.686	36°50'38.26"N	84°51'57.56"W
1-3-C-10	1827647.628	16021899221.290	36°50'39.32"N	84°51'55.99"W
2-1-C-15	1827388.173	16021898839.230	36°50'36.79"N	84°52'0.72"W
2-2-C-8	1827544.195	16021898759.735	36°50'38.34"N	84°52'1.68"W
2-3-C-8	1827697.853	16021898643.684	36°50'39.87"N	84°52'3.09"W
3-1-C-15	1827276.702	16021898923.999	36°50'35.68"N	84°51'59.69"W
3-2-C-8	1827198.468	16021898777.598	36°50'34.92"N	84°52'1.50"W
3-3-C-10	1827103.400	16021898669.559	36°50'33.99"N	84°52'2.84"W
4-1-C-15	1827360.715	16021899039.455	36°50'36.50"N	84°51'58.26"W
4-2-C-8	1827223.764	16021899103.329	36°50'35.14"N	84°51'57.49"W
4-3-C-10	1827077.157	16021899216.067	36°50'33.68"N	84°51'56.12"W

WIRING SCHEDULE				
CKT#3	FROM	TO	WIRE SIZE	CONDUIT SIZE
	CONTROLLER	JBA1	3-#10 AWG	2 - 2" PVC
	JBA1	JBA2	3-#10 AWG	2 - 2" PVC*#
	JBA2	JBA6	3-#10 AWG	2 - 2" PVC*
	JBA6	3-1-C-6	3-#10 AWG	1 1/4" PVC
	3-1-C-6	3-2-C-8 ^a	3-#10 AWG	1 1/4" PVC
	3-2-C-8	3-3-C-10	3-#10 AWG	1 1/4" PVC
CKT#4	CONTROLLER	JBA1	3-#10 AWG	2 - 2" PVC
	JBA1	JBA7	3-#10 AWG	2 - 2" PVC*
	JBA7	4-1-C-6	3-#10 AWG	1 1/4" PVC
	4-1-C-6	4-2-C-8 ^b	3-#10 AWG	1 1/4" PVC
	4-2-C-8	JBA8	3-#10 AWG	1 1/4" PVC
	JBA8	JBA9	3-#10 AWG	2" PVC
	JBA9	4-3-C-10	3-#10 AWG	1 1/4" PVC

* ONE SPARE 2" CONDUIT & CAP ON BOTH ENDS

SAME CONDUIT FOR CIRCUIT 2 & 3 FROM JBA1 TO JBA2

^a THRU A6

^b THRU A7

WIRING SCHEDULE

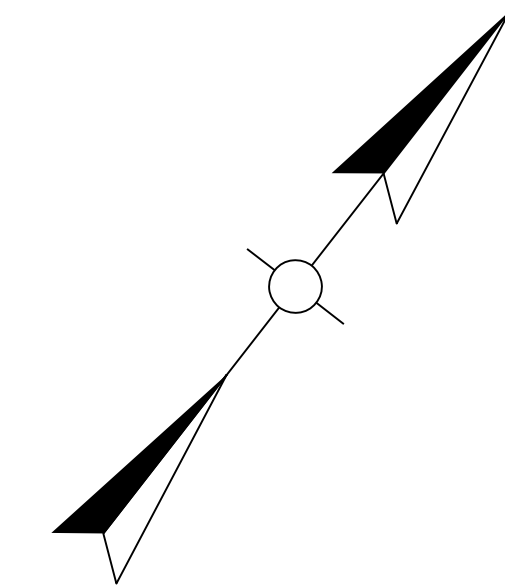
CKT#1	FROM	TO	WIRE SIZE	CONDUIT SIZE
	CONTROLLER	JBA1	3-#10 AWG	2 - 2" PVC
	JBA1	1-1-C-6	3-#10 AWG	1 1/4" PVC
	JBA1	1-2-C-8	3-#10 AWG	1 1/4" PVC
	1-2-C-8	1-3-C-10	3-#10 AWG	1 1/4" PVC
CKT#2	CONTROLLER	JBA1	3-#10 AWG	2 - 2" PVC
	JBA1	JBA2	3-#10 AWG	2 - 2" PVC*
	JBA2	2-1-C-6	3-#10 AWG	1 1/4" PVC
	JBA2	2-2-C-8	3-#10 AWG	1 1/4" PVC
	2-2-C-8	JBA3	3-#10 AWG	1 1/4" PVC
	JBA3	JBA4	3-#10 AWG	2" PVC
	JBA4	JBA5	3-#10 AWG	2" PVC
	JBA5	2-3-C-6	3-#10 AWG	1 1/4" PVC

* ONE SPARE 2" CONDUIT & CAP ON BOTH ENDS

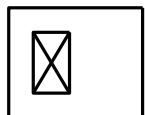
MATCHLINE 47+00 SEE SHEET T10

MATCHLINE 119+00
SEE SHEET T7

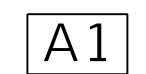
MATCHLINE 52+50
SEE SHEET T8



LEGEND



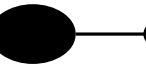
BASE MOUNTED CABINET



JUNCTION BOXES - TYPE A
(AS DESIGNATED)



1 1/4" SCHEDULE 80 PVC CONDUIT
(UNLESS OTHERWISE NOTED)



LUMINAIRE POLE



ZONE AREA

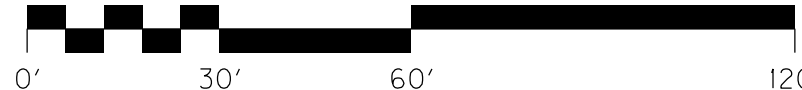


COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



DRAWING TITLE: ROUNDABOUT LIGHTING
K-90 & KY-92

HORIZONTAL SCALE
SCALE: 1" = 30'



STA 112+50 TO 119+00
&
STA 47+00 TO 52+50

ITEM NO.

COUNTY OF
WAYNE

SHEET NO.

T6

CONVENTIONAL LIGHTING:

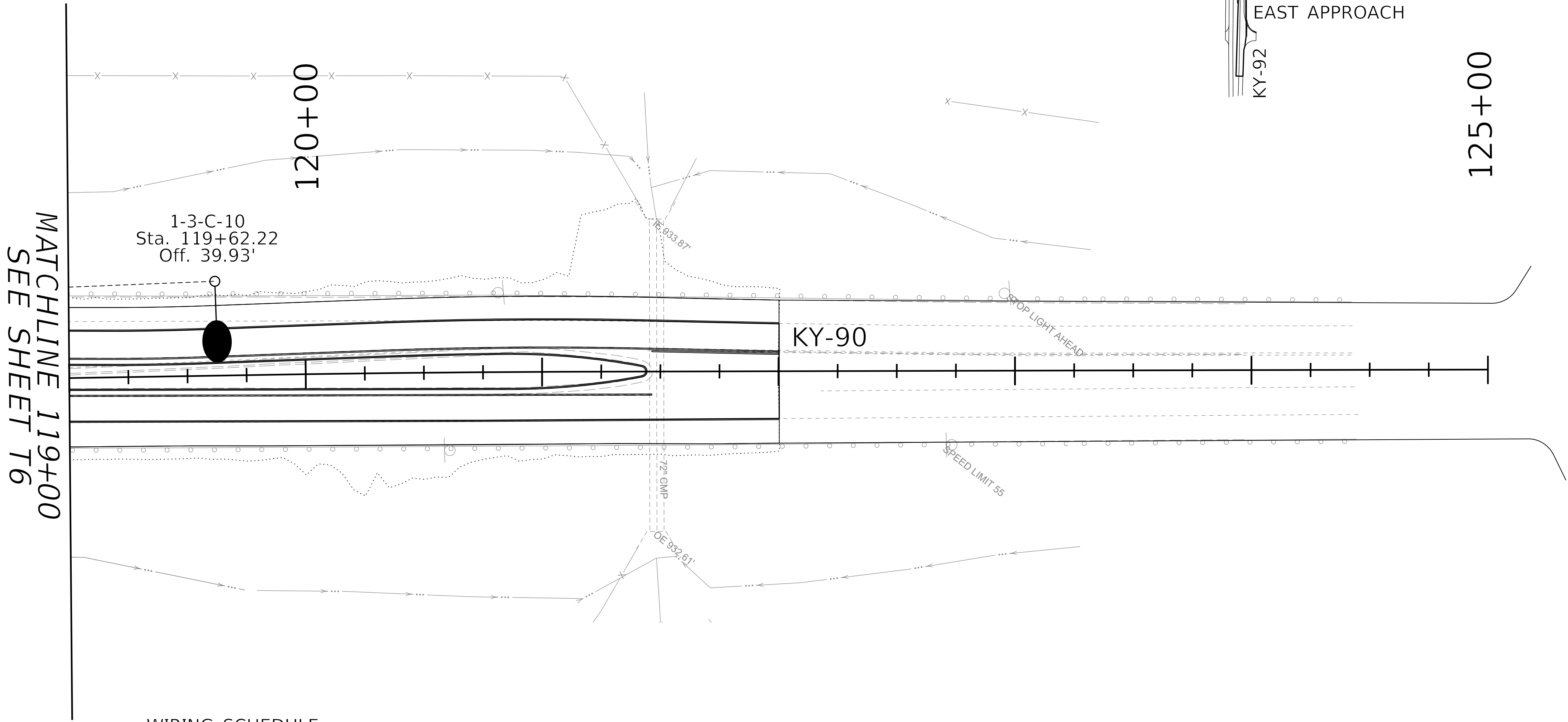
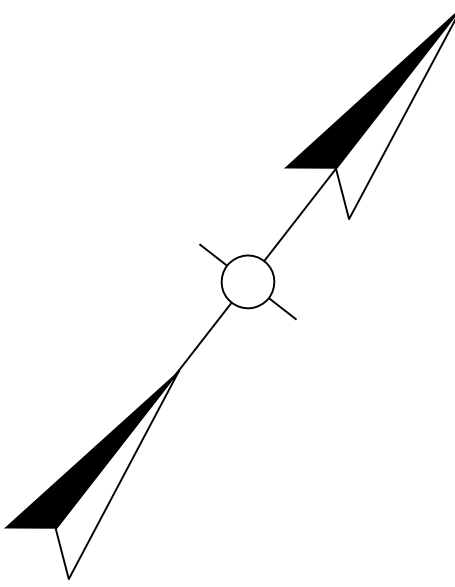
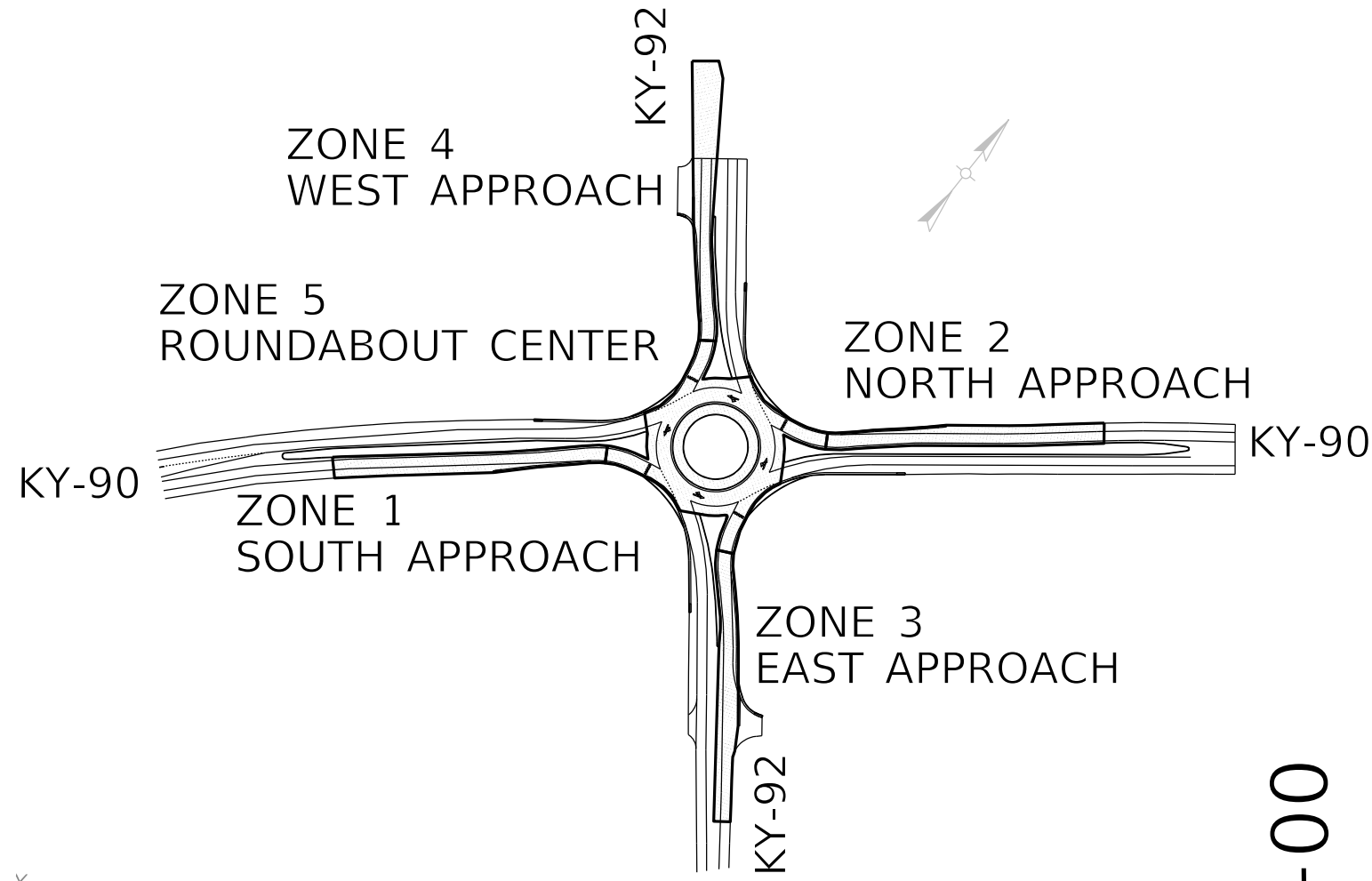
ALL POLES SHALL HAVE A #12 AWG GREEN GROUND WIRE RUN FROM BOTTOM OF POLE TO THE LUMINAIRE FOR GROUNDING . ALL POLES SHALL HAVE A GREEN WIRE THE SAME SIZE AS THE CIRCUIT WIRE RUN FROM POLE TO POLE FOR GROUNDING. GROUNDING WIRES SHALL BE CONNECTED TO GROUNDING LUGS ON CONDUITS OR ON THE POLE/TRANSFORMER BASE.

POLE HEIGHTS, ARM LENGTHS AND SETBACKS ARE DENOTED AS STATED ON "LUMINAIRE DESIGNATION EXAMPLE" ON LUMINAIRE/FUSE CONNECTOR DETAIL SHEET.

POLES SHALL BE PLACED AS CLOSE TO STATIONS AS STATED ON PLANS TO PROVIDE PROPER ILLUMINATION. IF ANY POLE NEEDS TO BE MOVED FROM THE STATION INDICATED, C.O. TRAFFIC SHALL BE CONTACTED AT 502-564-3020.

NEED METAL LUG INSTALLED ON THE NEUTRAL SIDE OF THE FUSED CONNECTOR KIT.

GRAPHIC BELOW SHOWS THE CALCULATION AREA FOR EACH LIGHT ZONE
SEE SHEET T2 FOR ZONE LIGHTING DESIGN DETAILS



WIRING SCHEDULE

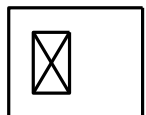
	FROM	TO	WIRE SIZE	CONDUIT SIZE
CKT#1	CONTROLLER	JBA1	3-#10 AWG	2 - 2" PVC
	JBA1	1-1-C-6	3-#10 AWG	1 1/4" PVC
	JBA1	1-2-C-8	3-#10 AWG	1 1/4" PVC
	1-2-C-8	1-3-C-10	3-#10 AWG	1 1/4" PVC
CKT#2	CONTROLLER	JBA1	3-#10 AWG	2 - 2" PVC
	JBA1	JBA2	3-#10 AWG	2 - 2" PVC*
	JBA2	2-1-C-6	3-#10 AWG	1 1/4" PVC
	JBA2	2-2-C-8	3-#10 AWG	1 1/4" PVC
	2-2-C-8	JBA3	3-#10 AWG	1 1/4" PVC
	JBA3	JBA4	3-#10 AWG	2" PVC
	JBA4	JBA5	3-#10 AWG	2" PVC
	JBA5	2-3-C-6	3-#10 AWG	1 1/4" PVC

* ONE SPARE 2" CONDUIT & CAP ON BOTH ENDS

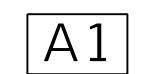
POLE SCHEDULE

POLE ID	NORTHING	EASTING	LATITUDE	LONGITUDE
1-1-C-15	1827475.228	16021898955.470	36°50'37.64"N	84°51'59.28"W
1-2-C-8	1827539.236	16021899094.686	36°50'38.26"N	84°51'57.56"W
1-3-C-10	1827647.628	16021899221.290	36°50'39.32"N	84°51'55.99"W
2-1-C-15	1827388.173	16021898839.230	36°50'36.79"N	84°52'0.72"W
2-2-C-8	1827544.195	16021898759.735	36°50'38.34"N	84°52'1.68"W
2-3-C-8	1827697.853	16021898643.684	36°50'39.87"N	84°52'3.09"W
3-1-C-15	1827276.702	16021898923.999	36°50'35.68"N	84°51'59.69"W
3-2-C-8	1827198.468	16021898777.598	36°50'34.92"N	84°52'1.50"W
3-3-C-10	1827103.400	16021898669.559	36°50'33.99"N	84°52'2.84"W
4-1-C-15	1827360.715	16021899039.455	36°50'36.50"N	84°51'58.26"W
4-2-C-8	1827223.764	16021899103.329	36°50'35.14"N	84°51'57.49"W
4-3-C-10	1827077.157	16021899216.067	36°50'33.68"N	84°51'56.12"W

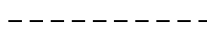
LEGEND



BASE MOUNTED CABINET



JUNCTION BOXES - TYPE A
(AS DESIGNATED)



1 1/4" SCHEDULE 80 PVC CONDUIT
(UNLESS OTHERWISE NOTED)



LUMINAIRE POLE



ZONE AREA



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



DRAWING TITLE: ROUNDABOUT LIGHTING
K-90 & KY-92

HORIZONTAL SCALE
SCALE: 1" = 30'



STA 119+00 TO 125+00

ITEM NO.

COUNTY OF
WAYNE

SHEET NO.
T7

DATE: 6/12/2026 3:19:50 PM

CONVENTIONAL LIGHTING:

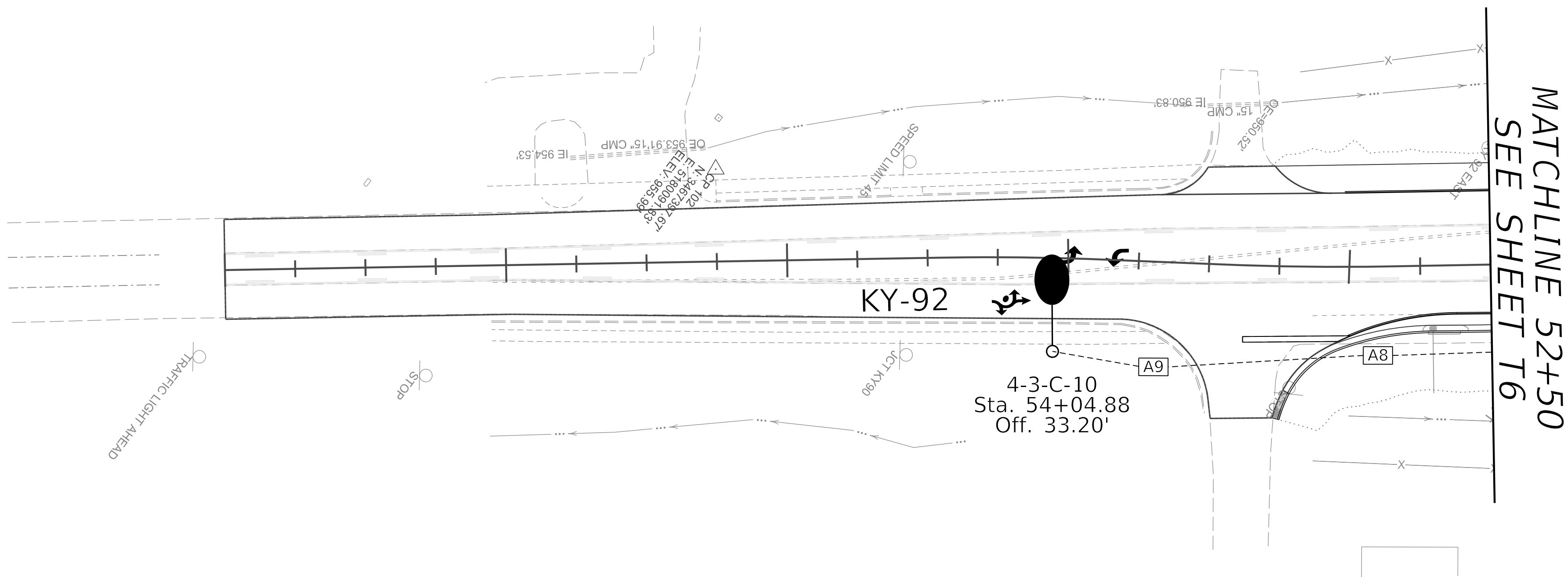
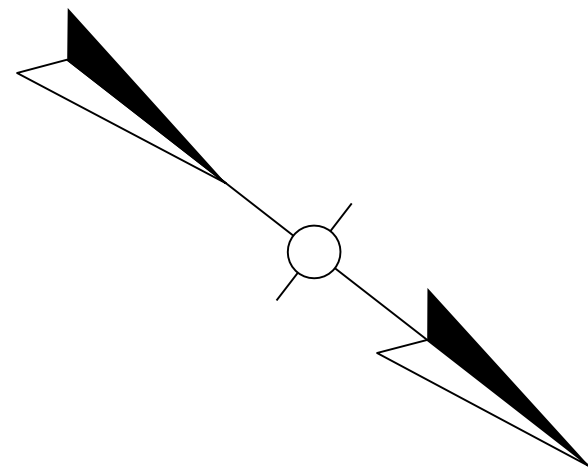
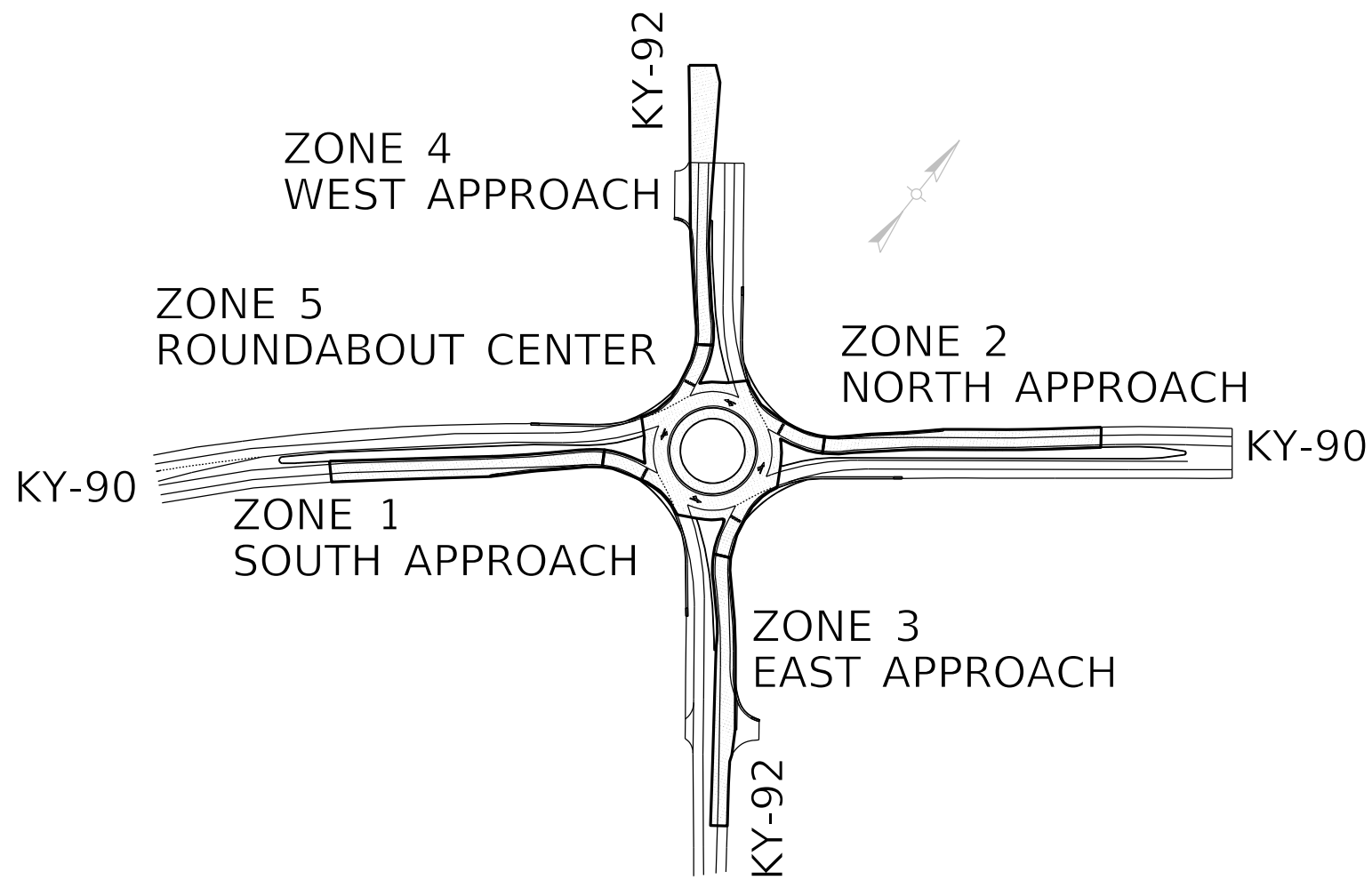
ALL POLES SHALL HAVE A #12 AWG GREEN GROUND WIRE RUN FROM BOTTOM OF POLE TO THE LUMINAIRE FOR GROUNDING . ALL POLES SHALL HAVE A GREEN WIRE THE SAME SIZE AS THE CIRCUIT WIRE RUN FROM POLE TO POLE FOR GROUNDING. GROUNDING WIRES SHALL BE CONNECTED TO GROUNDING LUGS ON CONDUITS OR ON THE POLE/TRANSFORMER BASE.

POLE HEIGHTS, ARM LENGTHS AND SETBACKS ARE DENOTED AS STATED ON "LUMINAIRE DESIGNATION EXAMPLE" ON LUMINAIRE/FUSE CONNECTOR DETAIL SHEET.

POLES SHALL BE PLACED AS CLOSE TO STATIONS AS STATED ON PLANS TO PROVIDE PROPER ILLUMINATION. IF ANY POLE NEEDS TO BE MOVED FROM THE STATION INDICATED, C.O. TRAFFIC SHALL BE CONTACTED AT 502-564-3020.

NEED METAL LUG INSTALLED ON THE NEUTRAL SIDE OF THE FUSED CONNECTOR KIT.

GRAPHIC BELOW SHOWS THE CALCULATION AREA FOR EACH LIGHT ZONE
SEE SHEET T2 FOR ZONE LIGHTING DESIGN DETAILS



WIRING SCHEDULE

	FROM	TO	WIRE SIZE	CONDUIT SIZE
CKT#3	CONTROLLER	JBA1	3-#10 AWG	2 - 2" PVC
	JBA1	JBA2	3-#10 AWG	2 - 2" PVC*#
	JBA2	JBA6	3-#10 AWG	2 - 2" PVC*
	JBA6	3-1-C-6	3-#10 AWG	1 1/4" PVC
	3-1-C-6	3-2-C-8 ^a	3-#10 AWG	1 1/4" PVC
	3-2-C-8	3-3-C-10	3-#10 AWG	1 1/4" PVC
CKT#4	CONTROLLER	JBA1	3-#10 AWG	2 - 2" PVC
	JBA1	JBA7	3-#10 AWG	2 - 2" PVC*
	JBA7	4-1-C-6	3-#10 AWG	1 1/4" PVC
	4-1-C-6	4-2-C-8 ^b	3-#10 AWG	1 1/4" PVC
	4-2-C-8	JBA8	3-#10 AWG	1 1/4" PVC
	JBA8	JBA9	3-#10 AWG	2" PVC
	JBA9	4-3-C-10	3-#10 AWG	1 1/4" PVC

* ONE SPARE 2" CONDUIT & CAP ON BOTH ENDS

SAME CONDUIT FOR CIRCUIT 2 & 3 FROM JBA1 TO JBA2

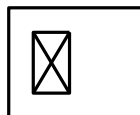
^a THRU A6

^b THRU A7

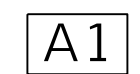
POLE SCHEDULE

POLE ID	NORTHING	EASTING	LATITUDE	LONGITUDE
1-1-C-15	1827475.228	16021898955.470	36°50'37.64"N	84°51'59.28"W
1-2-C-8	1827539.236	16021899094.686	36°50'38.26"N	84°51'57.56"W
1-3-C-10	1827647.628	16021899221.290	36°50'39.32"N	84°51'55.99"W
2-1-C-15	1827388.173	16021898839.230	36°50'36.79"N	84°52'0.72"W
2-2-C-8	1827544.195	16021898759.735	36°50'38.34"N	84°52'1.68"W
2-3-C-8	1827697.853	16021898643.684	36°50'39.87"N	84°52'3.09"W
3-1-C-15	1827276.702	16021898923.999	36°50'35.68"N	84°51'59.69"W
3-2-C-8	1827198.468	16021898777.598	36°50'34.92"N	84°52'1.50"W
3-3-C-10	1827103.400	16021898669.559	36°50'33.99"N	84°52'2.84"W
4-1-C-15	1827360.715	16021899039.455	36°50'36.50"N	84°51'58.26"W
4-2-C-8	1827223.764	16021899103.329	36°50'35.14"N	84°51'57.49"W
4-3-C-10	1827077.157	16021899216.067	36°50'33.68"N	84°51'56.12"W

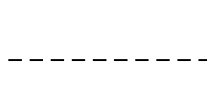
LEGEND



BASE MOUNTED CABINET



JUNCTION BOXES - TYPE A
(AS DESIGNATED)



1 1/4" SCHEDULE 80 PVC CONDUIT
(UNLESS OTHERWISE NOTED)



LUMINAIRE POLE



ZONE AREA

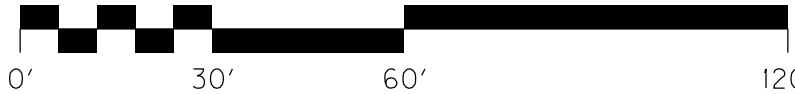


COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



DRAWING TITLE: ROUNDABOUT LIGHTING
K-90 & KY-92

HORIZONTAL SCALE
SCALE: 1" = 30'



STA 52+50 TO 57+00

ITEM NO.

COUNTY OF
WAYNE

SHEET NO.
T8

CONVENTIONAL LIGHTING:

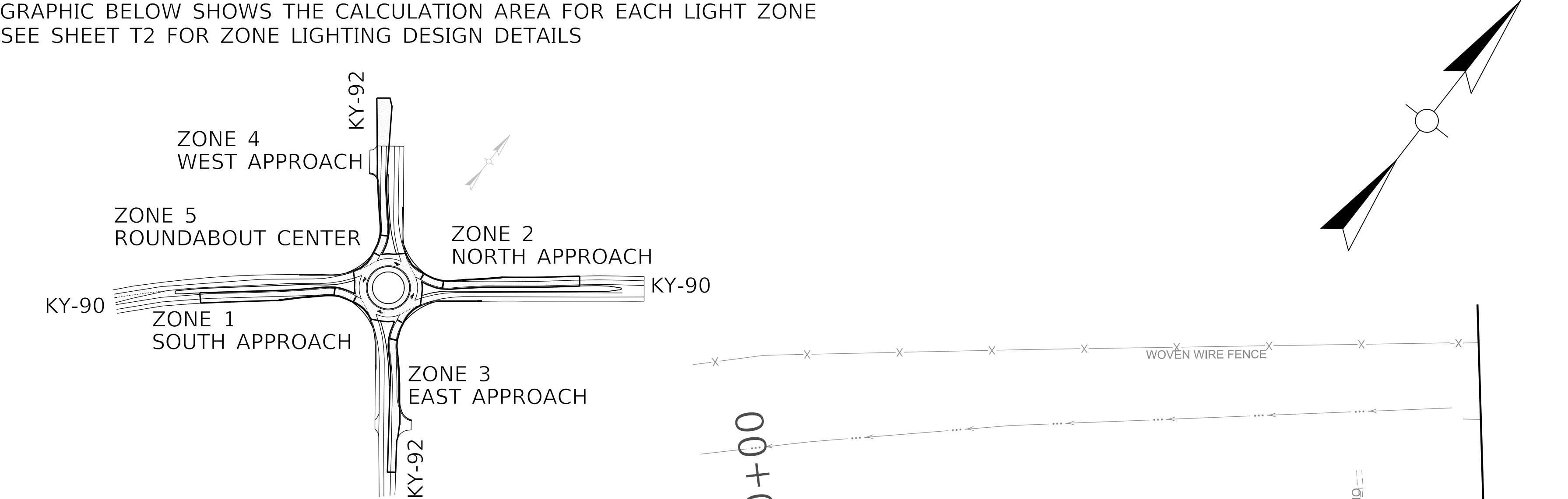
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POLE HEIGHTS, ARM LENGTHS AND SETBACKS ARE DENOTED AS STATED ON "LUMINAIRE DESIGNATION EXAMPLE" ON LUMINAIRE/FUSE CONNECTOR DETAIL SHEET.

POLES SHALL BE PLACED AS CLOSE TO STATIONS AS STATED ON PLANS TO PROVIDE PROPER ILLUMINATION. IF ANY POLE NEEDS TO BE MOVED FROM THE STATION INDICATED, C.O. TRAFFIC SHALL BE CONTACTED AT 502-564-3020.

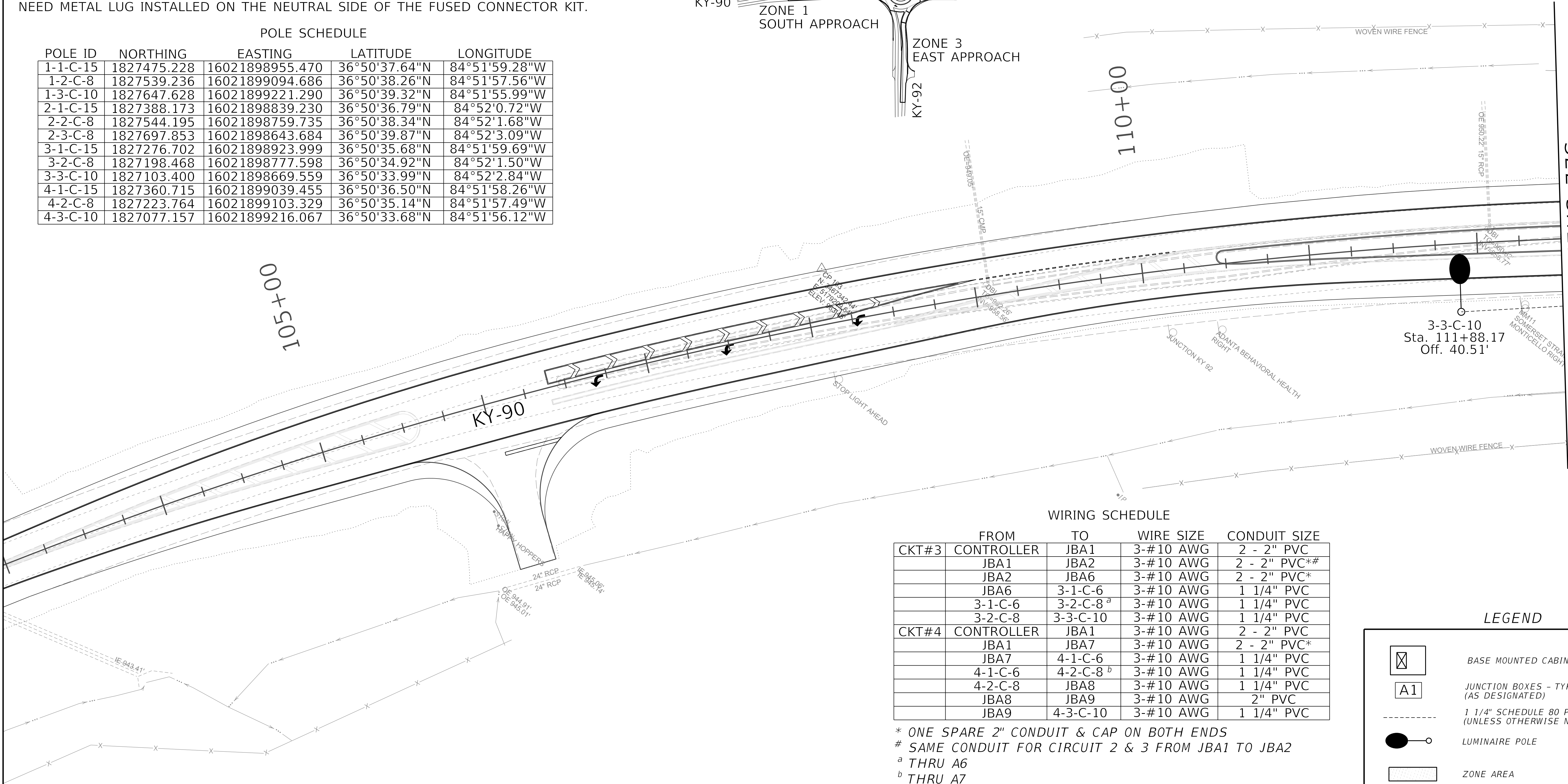
NEED METAL LUG INSTALLED ON THE NEUTRAL SIDE OF THE FUSED CONNECTOR KIT.

GRAPHIC BELOW SHOWS THE CALCULATION AREA FOR EACH LIGHT ZONE
SEE SHEET T2 FOR ZONE LIGHTING DESIGN DETAILS



POLE SCHEDULE

POLE ID	NORTHING	EASTING	LATITUDE	LONGITUDE
1-1-C-15	1827475.228	16021898955.470	36°50'37.64"N	84°51'59.28"W
1-2-C-8	1827539.236	16021899094.686	36°50'38.26"N	84°51'57.56"W
1-3-C-10	1827647.628	16021899221.290	36°50'39.32"N	84°51'55.99"W
2-1-C-15	1827388.173	16021898839.230	36°50'36.79"N	84°52'0.72"W
2-2-C-8	1827544.195	16021898759.735	36°50'38.34"N	84°52'1.68"W
2-3-C-8	1827697.853	16021898643.684	36°50'39.87"N	84°52'3.09"W
3-1-C-15	1827276.702	16021898923.999	36°50'35.68"N	84°51'59.69"W
3-2-C-8	1827198.468	16021898777.598	36°50'34.92"N	84°52'1.50"W
3-3-C-10	1827103.400	16021898669.559	36°50'33.99"N	84°52'2.84"W
4-1-C-15	1827360.715	16021899039.455	36°50'36.50"N	84°51'58.26"W
4-2-C-8	1827223.764	16021899103.329	36°50'35.14"N	84°51'57.49"W
4-3-C-10	1827077.157	16021899216.067	36°50'33.68"N	84°51'56.12"W



WIRING SCHEDULE

CKT#	FROM	TO	WIRE SIZE	CONDUIT SIZE
CKT#3	CONTROLLER	JBA1	3-#10 AWG	2 - 2" PVC
	JBA1	JBA2	3-#10 AWG	2 - 2" PVC*#
	JBA2	JBA6	3-#10 AWG	2 - 2" PVC*
	JBA6	3-1-C-6	3-#10 AWG	1 1/4" PVC
	3-1-C-6	3-2-C-8 ^a	3-#10 AWG	1 1/4" PVC
CKT#4	CONTROLLER	JBA1	3-#10 AWG	2 - 2" PVC
	JBA1	JBA7	3-#10 AWG	2 - 2" PVC*
	JBA7	4-1-C-6	3-#10 AWG	1 1/4" PVC
	4-1-C-6	4-2-C-8 ^b	3-#10 AWG	1 1/4" PVC
	4-2-C-8	JBA8	3-#10 AWG	1 1/4" PVC
	JBA8	JBA9	3-#10 AWG	2" PVC
	JBA9	4-3-C-10	3-#10 AWG	1 1/4" PVC

* ONE SPARE 2" CONDUIT & CAP ON BOTH ENDS
SAME CONDUIT FOR CIRCUIT 2 & 3 FROM JBA1 TO JBA2
^a THRU A6
^b THRU A7

LEGEND

- BASE MOUNTED CABINET
- JUNCTION BOXES - TYPE A (AS DESIGNATED)
- 1 1/4" SCHEDULE 80 PVC CONDUIT (UNLESS OTHERWISE NOTED)
- LUMINAIRE POLE
- ZONE AREA

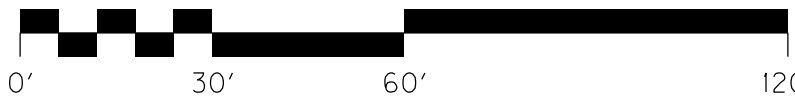


COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



DRAWING TITLE: ROUNDABOUT LIGHTING
K-90 & KY-92

HORIZONTAL SCALE
SCALE: 1" = 30'



STA 103+00 TO 112+50

ITEM NO. COUNTY OF WAYNE

SHEET NO. T9

CONVENTIONAL LIGHTING:

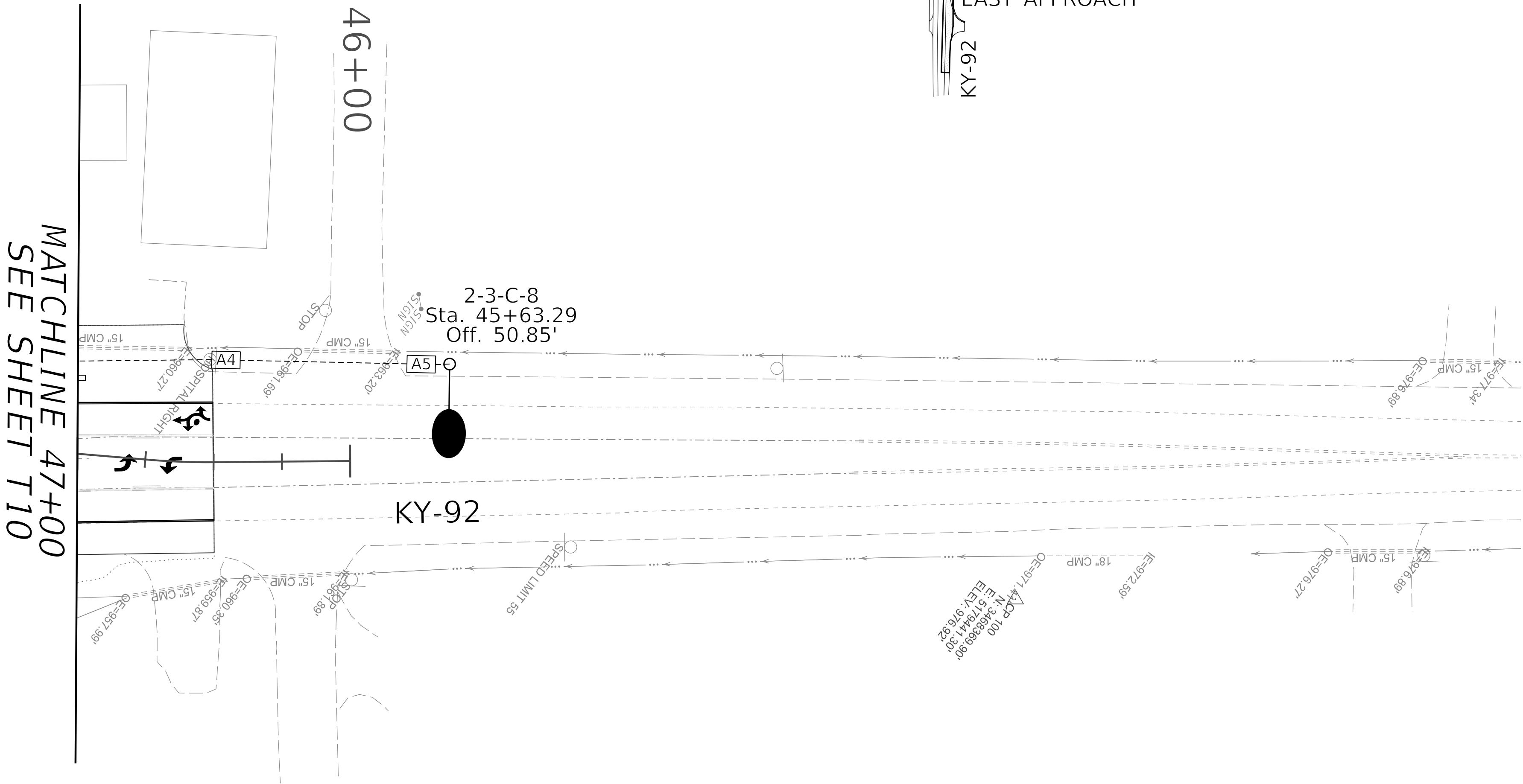
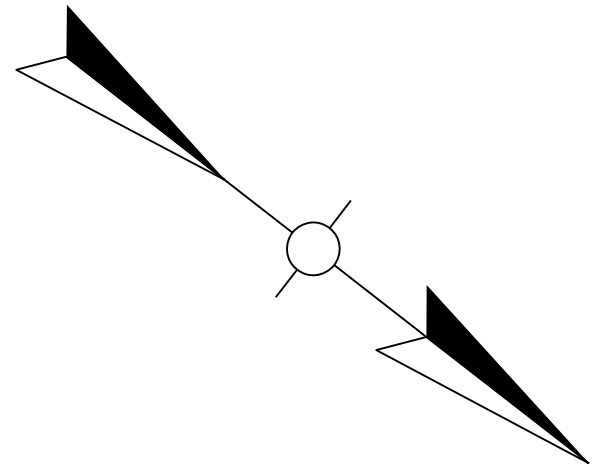
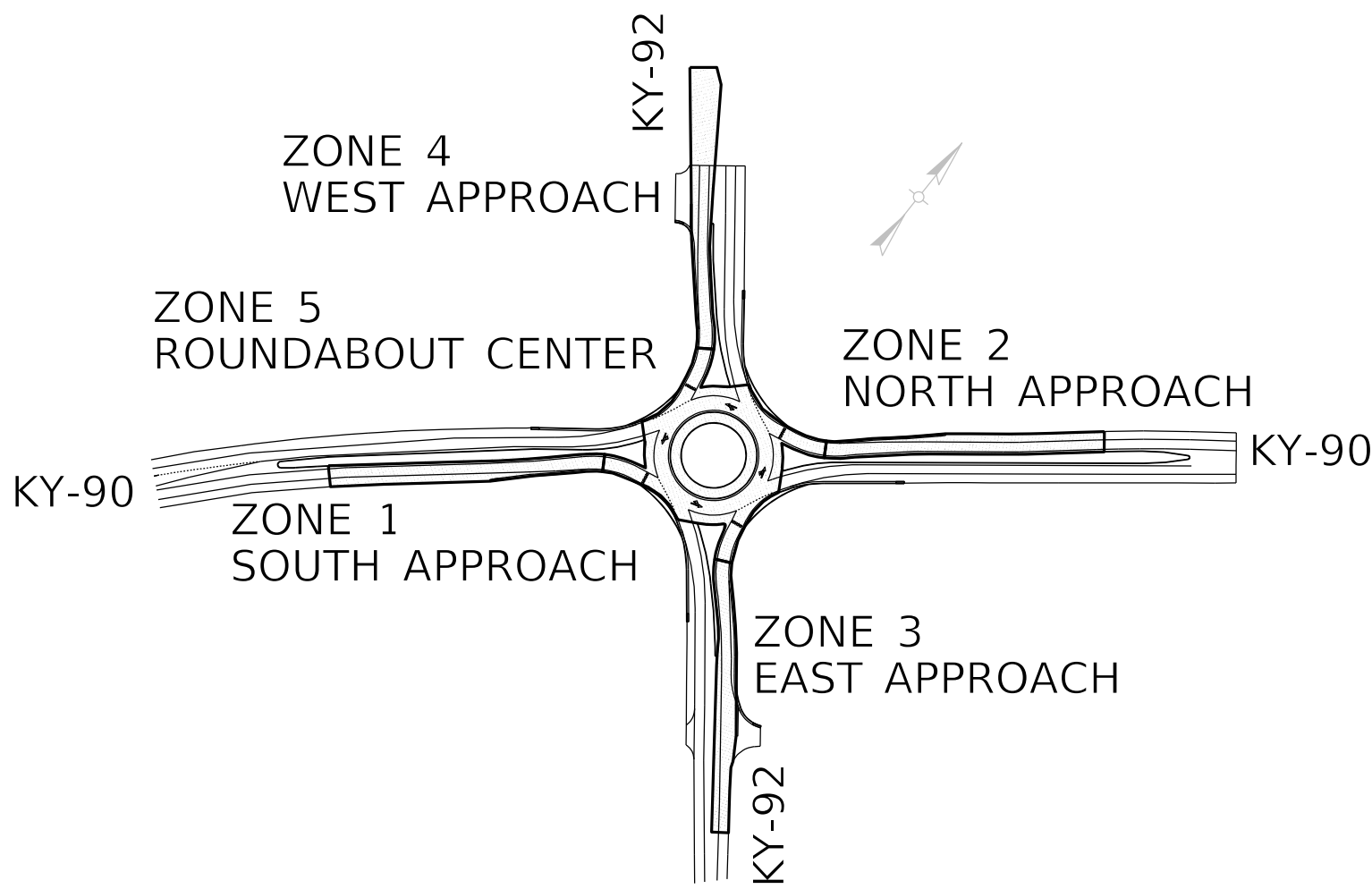
ALL POLES SHALL HAVE A #12 AWG GREEN GROUND WIRE RUN FROM BOTTOM OF POLE TO THE LUMINAIRE FOR GROUNDING . ALL POLES SHALL HAVE A GREEN WIRE THE SAME SIZE AS THE CIRCUIT WIRE RUN FROM POLE TO POLE FOR GROUNDING. GROUNDING WIRES SHALL BE CONNECTED TO GROUNDING LUGS ON CONDUITS OR ON THE POLE/TRANSFORMER BASE.

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POLES SHALL BE PLACED AS CLOSE TO STATIONS AS STATED ON PLANS TO PROVIDE PROPER ILLUMINATION. IF ANY POLE NEEDS TO BE MOVED FROM THE STATION INDICATED, C.O. TRAFFIC SHALL BE CONTACTED AT 502-564-3020.

NEED METAL LUG INSTALLED ON THE NEUTRAL SIDE OF THE FUSED CONNECTOR KIT.

GRAPHIC BELOW SHOWS THE CALCULATION AREA FOR EACH LIGHT ZONE
SEE SHEET T2 FOR ZONE LIGHTING DESIGN DETAILS



WIRING SCHEDULE

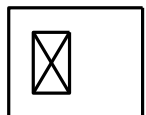
CKT#	FROM	TO	WIRE SIZE	CONDUIT SIZE
1	JBA1	JBA1	3-#10 AWG	2 - 2" PVC
	JBA1	1-1-C-6	3-#10 AWG	1 1/4" PVC
	JBA1	1-2-C-8	3-#10 AWG	1 1/4" PVC
	1-2-C-8	1-3-C-10	3-#10 AWG	1 1/4" PVC
2	JBA1	JBA1	3-#10 AWG	2 - 2" PVC
	JBA1	JBA2	3-#10 AWG	2 - 2" PVC*
	JBA2	2-1-C-6	3-#10 AWG	1 1/4" PVC
	JBA2	2-2-C-8	3-#10 AWG	1 1/4" PVC
	JBA3	JBA4	3-#10 AWG	2" PVC
	JBA4	JBA5	3-#10 AWG	2" PVC
	JBA5	2-3-C-6	3-#10 AWG	1 1/4" PVC

* ONE SPARE 2" CONDUIT & CAP ON BOTH ENDS

POLE SCHEDULE

POLE ID	NORTHING	EASTING	LATITUDE	LONGITUDE
1-1-C-15	1827475.228	16021898955.470	36°50'37.64"N	84°51'59.28"W
1-2-C-8	1827539.236	16021899094.686	36°50'38.26"N	84°51'57.56"W
1-3-C-10	1827647.628	16021899221.290	36°50'39.32"N	84°51'55.99"W
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2-2-C-8	1827544.195	16021898759.735	36°50'38.34"N	84°52'1.68"W
2-3-C-8	1827697.853	16021898643.684	36°50'39.87"N	84°52'3.09"W
3-1-C-15	1827276.702	16021898923.999	36°50'35.68"N	84°51'59.69"W
3-2-C-8	1827198.468	16021898777.598	36°50'34.92"N	84°52'1.50"W
3-3-C-10	1827103.400	16021898669.559	36°50'33.99"N	84°52'2.84"W
4-1-C-15	1827360.715	16021899039.455	36°50'36.50"N	84°51'58.26"W
4-2-C-8	1827223.764	16021899103.329	36°50'35.14"N	84°51'57.49"W
4-3-C-10	1827077.157	16021899216.067	36°50'33.68"N	84°51'56.12"W

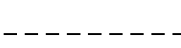
LEGEND



BASE MOUNTED CABINET



JUNCTION BOXES - TYPE A
(AS DESIGNATED)



1 1/4" SCHEDULE 80 PVC CONDUIT
(UNLESS OTHERWISE NOTED)



LUMINAIRE POLE



ZONE AREA



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



DRAWING TITLE: ROUNDABOUT LIGHTING
K-90 & KY-92

HORIZONTAL SCALE
SCALE: 1" = 30'



STA 46+00 TO 47+00

ITEM NO. COUNTY OF
WAYNE

SHEET NO.
T10