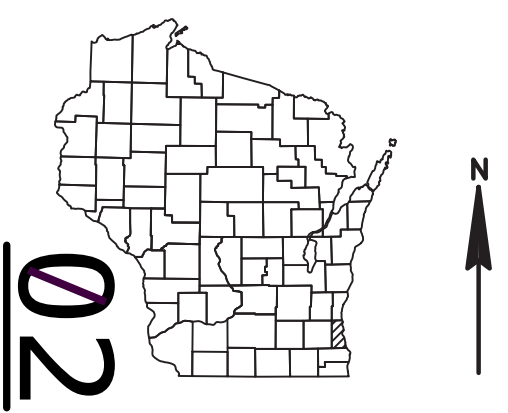


WKE
PROJECT ID: 1000-13-71
COUNTY: MILWAUKEE

JUNE 2019

ORDER OF SHEETS		
Section No. 1	Title	
Section No. 2	Typical Sections and Details	
Section No. 3	Estimate of Quantities	
Section No. 3	Miscellaneous Quantities	
Section No. 4	Right of Way Plat	
Section No. 5	Plan and Profile	
Section No. 6	Standard Detail Drawings	
Section No. 7	Sign Plates	
Section No. 8	Structure Plans	
Section No. 9	Computer Earthwork Data	
Section No. 9	Cross Sections	

TOTAL SHEETS = 156

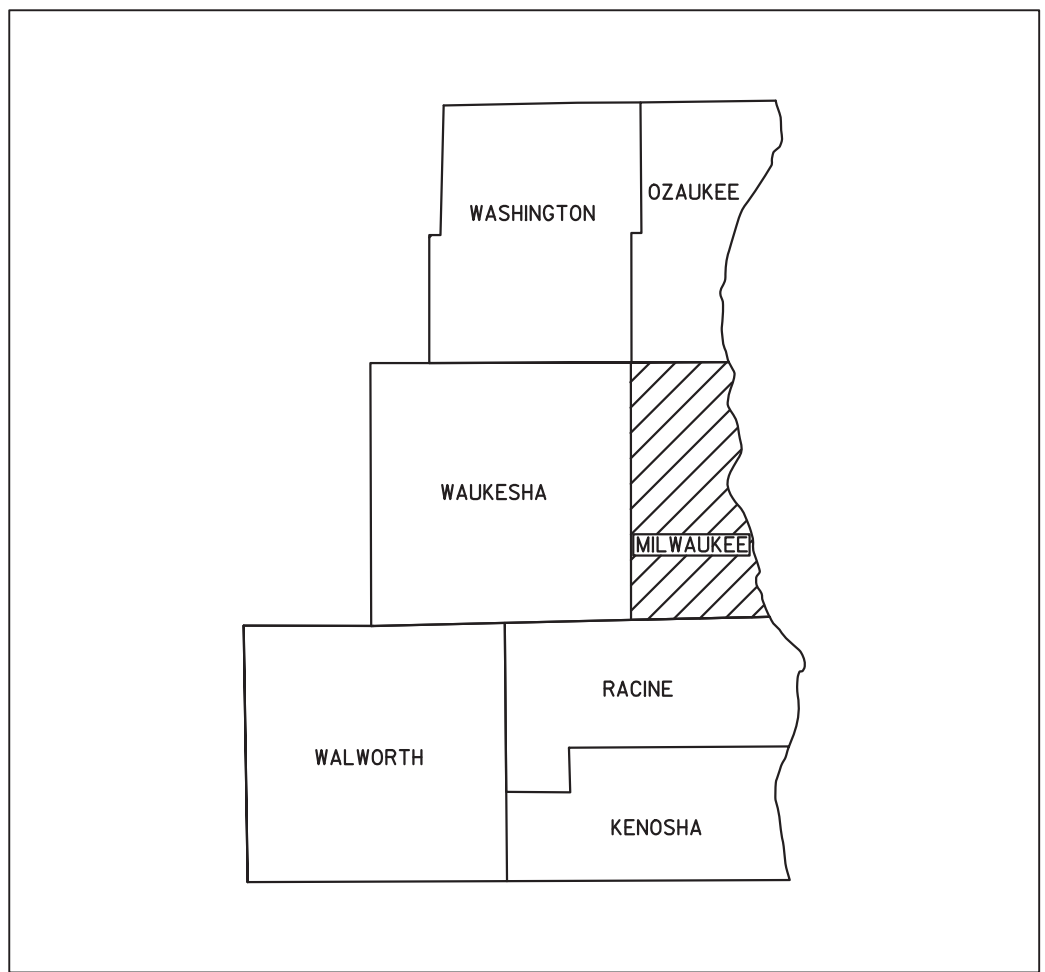


DESIGN DESIGNATION		
A.A.D.T.	=	N/A
A.A.D.T.	=	N/A
D.H.V.	=	N/A
D.D.	=	N/A
T.	=	N/A
DESIGN SPEED	=	N/A
ESALS	=	N/A

CONVENTIONAL SYMBOLS		
PLAN		
CORPORATE LIMITS		
PROPERTY LINE		
LOT LINE		
LIMITED HIGHWAY EASEMENT		
EXISTING RIGHT OF WAY		
PROPOSED OR NEW R/W LINE		
SLOPE INTERCEPT		
REFERENCE LINE		
EXISTING CULVERT		
PROPOSED CULVERT (Box or Pipe)		
COMBUSTIBLE FLUIDS		
MARSH AREA		
WOODED OR SHRUB AREA		
PROFILE		
GRADE LINE		
ORIGINAL GROUND		
MARSH OR ROCK PROFILE (To be noted as such)		
SPECIAL DITCH		
GRADE ELEVATION		
CULVERT (Profile View)		
UTILITIES		
ELECTRIC		
OVERHEAD UTILITY		
FIBER OPTIC		
GAS		
SANITARY SEWER		
STORM SEWER		
TELEPHONE		
WATER		
UTILITY PEDESTAL		
POWER POLE		
TELEPHONE POLE		

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
PLAN OF PROPOSED IMPROVEMENT
SE REGION MILWAUKEE COUNTY
HIGHWAY LIGHTING 2019
VARIOUS HIGHWAYS
MILWAUKEE COUNTY

STATE PROJECT NUMBER
1000-13-71



LAYOUT
SCALE 0 *
TOTAL NET LENGTH OF CENTERLINE = 0.000 MI.

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, MILWAUKEE COUNTY, NAD83 (2007), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1000-13-71		

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
PREPARED BY	
Surveyor	
Designer	WISDOT/SINGH
Project Manager	ERIC PEREA
Regional Examiner	
Regional Supervisor	MITZI DOBERSEK
APPROVED FOR THE DEPARTMENT	
DATE: 3/01/19	
	(Signature)

UTILITY CONTACTS

TO OBTAIN LOCATION OF
PARTICIPANTS' UNDERGROUND
FACILITIES BEFORE YOU
DIG IN WISCONSIN

WIS. STATUTE 182.0175 (1974)
REQUIRES MIN. OF 3 WORK DAYS
NOTICE BEFORE YOU EXCAVATE



MILWAUKEE COUNTY - HIGHWAY MAINTENANCE

MR. KEVIN KENT
HIGHWAY MAINTENANCE MANAGER
10190 WATERTOWN PLK ROAD
WAUWATOSA, WI 53266
(414) 257-6566
KEVIN.KENT@MILWAUKEECOUNTYWI.GOV

WISCONSIN DEPT. OF TRANSPORTATION

MR. PATRICK STOETZEL
WISDOT DTSD SE REGION HIGHWAY LIGHTING COORDINATOR
935 S 60TH STREET
WEST ALLIS, WI 53214
(414) 750-5306
PATRICK.STOETZEL@DOT.WI.GOV

WISCONSIN DEPT. OF TRANSPORTATION

MS. BREE JOHNS-KONKOL
WISDOT DTSD SE REGION ELECTRICAL FIELD UNIT (EFU) SHOP COORDINATOR
935 S 60TH STREET
WEST ALLIS, WI 53214
(414) 266-1170
BREE.JOHNSKONKOL@DOT.WI.GOV

STATE AGENCIES

WISCONSIN DEPARTMENT OF NATURAL RESOURCES

MS. KRISTINA BETZOLD - ENVIRONMENTAL SPECIALIST
2300 N. MARTIN LUTHER KING JR. DRIVE
MILWAUKEE, WI 53212
(414) 263-8517
KRISTINA.BETZOLD@WISCONSIN.GOV

WISCONSIN DEPARTMENT OF TRANSPORTATION

MR. AHMET DEMIRBILEK - STATE ELECTRICAL & LIGHTING SYSTEMS ENGINEER
BUREAU OF TRAFFIC OPERATIONS - TRAFFIC MANAGEMENT CENTER
433 W ST. PAUL AVENUE, SUITE 300,
MILWAUKEE, WI 53203
(414) 220-6801
AHMET.DEMIRBILEK@DOT.WI.GOV

WISCONSIN DEPARTMENT OF TRANSPORTATION

MR. ERIC PEREA - PROJECT MANAGER
935 S. 60TH ST.
WEST ALLIS, WI 53214
(414) 750-0935
ERIC.PEREA@DOT.WI.GOV

WISCONSIN DEPARTMENT OF TRANSPORTATION

MR. STEVEN KUHL - PROJECT MANAGER
141 NW BARSTOW ST
WAUKESHA, WI 53187-0798
(414) 745.7569
STEVEN.KUHL@DOT.WI.GOV

WISCONSIN DEPARTMENT OF TRANSPORTATION

MR. MICHAEL TREAZISE - SE REGION UTILITY COORDINATOR
141 NW BARSTOW ST
WAUKESHA, WI 53187-0798
(262) 548-6425
MICHAEL.TREAZISE@DOT.WI.GOV

GENERAL NOTES

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

LOCATIONS OF THE PVC CONDUITS ARE IDENTIFIED IN THE PLANS WHERE THEY ARE REQUIRED. APPROPRIATE ADJUSTMENT ON CONDUIT LOCATIONS MAY BE MADE IF THE FIELD CONDITIONS ARE SUCH THAT THE CONDUIT CANNOT BE INSTALLED AT THE SPECIFIED LOCATIONS. FIELD MARK EACH CONDUIT LOCATION IN RED.

THE TRENCH SHALL NOT BE BACK FILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL CONDUITS SHALL BE CAPPED OR PLUGGED WITH ENGINEER APPROVED FITTINGS IMMEDIATELY AFTER INSTALLATION.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR IMMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON ALL CONDUITS.

PRIOR TO CONDUIT ACCEPTANCE, ALL CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND BE CAPPED WITH THE APPROPRIATE CAST PLASTIC CAP WHICH FITS SNUGLY ON THE CONDUIT, BUT EASILY REMOVED IN THE FUTURE. DUCT TAPE OR ANY OTHER CAPPING METHOD IS NOT ACCEPTABLE.

CONDUIT RUNS SHALL BE THE SAME SIZE PIPE FROM ONE END TO THE OTHER (FROM PULL BOX--TO--PULL BOX OR JUNCTION BOX OR BASE--TO--BASE, ETC.) UNLESS OTHERWISE NOTED ON PLANS.

PULL ROPE (3/8--INCH NYLON) SHALL BE INSTALLED IN ALL NEW CONDUITS.

CONTRACTOR SHALL SUPPLY AS--BUILT DRAWING FOR ALL THE WORK BEING DONE.

INSTALLATION OF LATERAL UNDERGROUND CONDUIT UNDER PAVEMENT SHALL BE INSTALLED MINIMUM 30 INCHES BELOW PROPOSED GRADE. CONDUIT LATERALS SHALL BE TRENCHED UNDER PAVEMENT BEFORE PAVEMENT CONSTRUCTION. CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH ROADWAY CONSTRUCTION FOR CONDUIT LATERALS INSTALLATION.

PITCH ALL CONDUITS TOWARD PULL BOXES. INSTALL A 2" DRAIN DUCT TO STORM SEWER OR DRAIN SUMP AS REQUIRED FOR DRAINAGE. THE 2" DRAIN DUCT OR SUMP IS INCIDENTAL TO THE PULL BOX BID ITEM AND IS NOT SHOWN.

THE LOCATION OF EXISTING AND PROPOSED UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE, IN ADDITION, THERE MAY BE OTHER UTILITIES WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION.

HAND DIGGING MAY BE REQUIRED FOR LOCATIONS ADJACENT TO EXISTING GAS AND POWER LINES. HAND EXCAVATION SHOULD BE ANTICIPATED & WILL BE CONSIDERED INCIDENTAL TO THE CONCRETE BASES BID ITEM. COORDINATE ALL WORK NEAR GAS LINE WITH WE ENERGIES.

EXISTING CONDUIT AND CID NO LONGER BEING USED IS ABANDONED IN PLACE. THE CONTRACTOR MAY REMOVE ABANDONED WIRING AT THE CONTRACTOR'S EXPENSE. ABANDONED PULL BOX REMOVAL IS INCIDENTAL TO THE ROAD CONSTRUCTION.

ALL UNDERGROUND WIRING AND CONDUIT FOR POLES BEING REMOVED IS ABANDONED IN PLACE UNLESS NOTED OTHERWISE. CONTRACTOR MAY SALVAGE ABANDONED WIRING AT HIS OWN EXPENSE.

IF CID CONTAINS PHASE CONDUCTOR(S) THAT WILL NOT BE USED FOR FURTHER POLES, I.E. AT THE END OF A CIRCUIT, DO NOT ENERGIZE THE CONDUCTOR(S) LEAVING THE LAST POLE THE PHASE WAS UTILIZED. REMOVE EXCESS CONDUCTOR(S) IN ALL SUBSEQUENT POLES.

SEAL THE ENDS OF ALL CID RACEWAY WITH A UL RECOGNIZED CONDUIT SEALANT. PROVIDE A 1#2" NYLON ROPE EXTENDING BEYOND THE PLUG TO ASSIST IN REMOVING THE PLUG IN THE FUTURE.

SEE DETAIL "CONDUIT DETAILS AT STRUCTURE PARAPET TO ROADWAY BARRIER INTERFACE" WHEN CONDUIT EXITS TO GRADE FROM A BRIDGE PARAPET OR RETAINING WALL. RIGID METALLIC CONDUIT IN CONCRETE BARRIER IS INCIDENTAL TO THE RIGID NONMETALLIC CONDUIT.

THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY LOCAL MUNICIPAL UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

TEMPORARY STORAGE OF ANY EXCAVATED MATERIAL WILL NOT BE PERMITTED IN WETLANDS.

PROVIDE MINIMUM CABLE SLACK AS NOTED BELOW:
PULL BOXES: 5--FT ONE WAY IN OR OUT
EMBEDDED JUNCTION BOXES: 3--FT
DISTRIBUTION CENTER/LOAD CENTER: 10--FT

STAGING NOTES

MAINTAIN LIGHTING AT ALL TIMES DURING CONSTRUCTION OF PROPOSED HIGH MAST LIGHTING (1000--20--71) USING EXISTING LIGHTING, FINAL LIGHTING OR COMBINATIONS.

DO NOT REMOVE EXISTING LIGHTING UNTIL THE NEW LIGHTING IS OPERATIONAL.

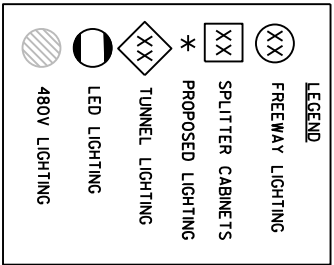
DUE TO THE PHASING OF CONSTRUCTION SOME FINAL LIGHTING UNITS MAY BE ORPHANED UNTIL A LATER STAGE IS COMPLETE. IT IS AT THE DISCRETION OF THE CONTRACTOR TO SCHEDULE THESE ITEMS. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF THE PLACEMENT OF RACEWAY THAT SPANS TWO DIFFERENT PHASES OF CONSTRUCTION.

FINAL LIGHTING MUST ILLUMINATE AN AREA BEFORE EXISTING LIGHTING UNITS IN AN AREA CAN BE REMOVED. THE SCHEDULING OF REMOVAL IS AT THE DISCRETION OF THE CONTRACTOR WITH THE PROVISION THAT LIGHTING OF THE ROADWAY IS PROVIDED AT ALL TIMES.

COORDINATE HIGH MAST LIGHTING REMOVAL WITH TRAFFIC CONTROL.

Milwaukee County

40



GENERAL NOTES:

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS.

LETTERS AND NUMBERS 2"
SERIES "D" SELF ADHESIVE
VINYL CUTOUTS

PLAQUE FACE BACKGROUND
SELF ADHESIVE SHEETING
WHITE (NON-RETROREFLECTIVE)

BASE MATERIAL TO BE
SHEET ALUMINUM, 0.060"
MIN. THICKNESS

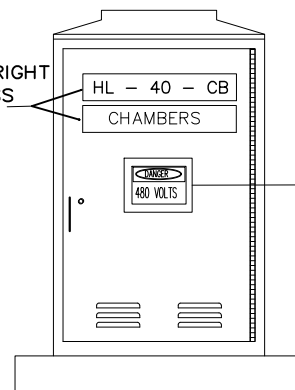
SPACING BETWEEN LETTERS
AND NUMBERS TO BE 1/2"
(IF QUANTITY OF NUMERALS
OR LETTERS IS LESS THAN
SHOWN, LEAVE SPACE AT
RIGHT SIDE OF PLAQUE)

DISTRIBUTION CENTER
IDENTIFICATION PLAQUE

CHAMBERS

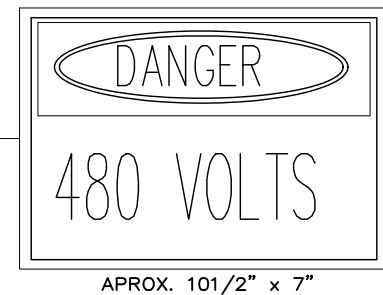
MNEMONIC
(SEE MISC. QTYS.)
(NO. OF CHARACTERS VARIES
THIRD PLAQUE MAY BE
NECESSARY)

FASTEN LEFT, CENTER AND RIGHT
OF PLAQUE WITH 3 STAINLESS
STEEL POP RIVETS



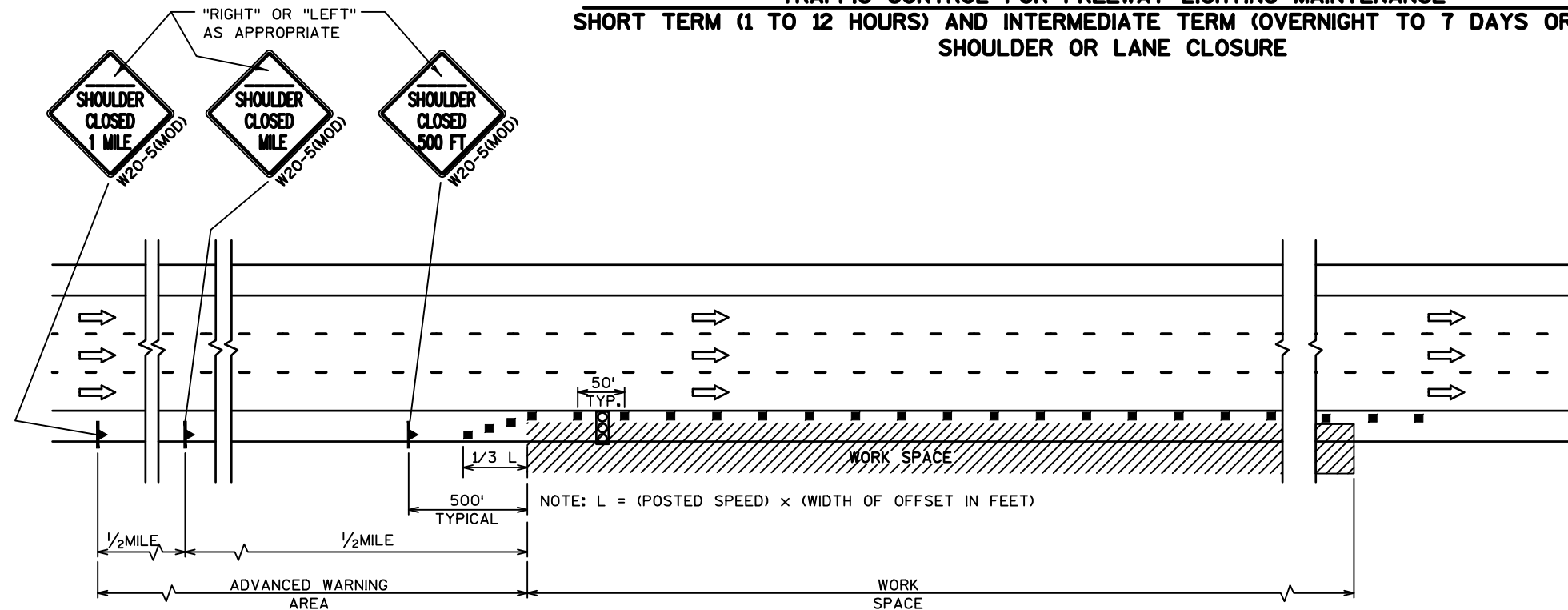
DISTRIBUTION CENTER IDENTIFICATION PLAQUE
REQUIREMENTS AND PLACEMENTS
(TYPICAL ALL CONTROL CABINETS)

TWO REQUIRED CABINET AND METER PEDESTALS
(PAID AS PLAQUES SEQUENCE IDENTIFICATIONS)



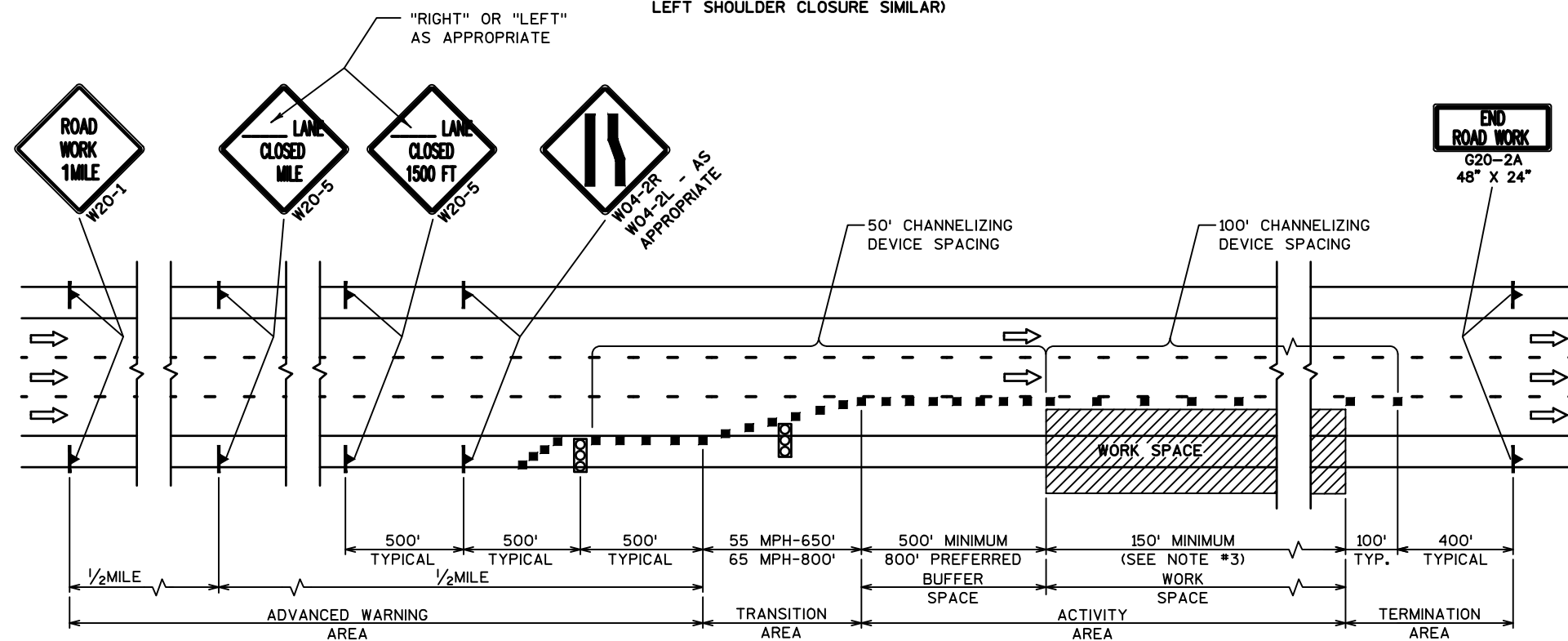
*SOME LOCATIONS WILL BE 240 VOLTS

TRAFFIC CONTROL FOR FREEWAY LIGHTING MAINTENANCE
SHORT TERM (1 TO 12 HOURS) AND INTERMEDIATE TERM (OVERNIGHT TO 7 DAYS OR LESS)
SHOULDER OR LANE CLOSURE



TYPICAL SHOULDER CLOSURE

(RIGHT SHOULDER CLOSURE SHOWN,
LEFT SHOULDER CLOSURE SIMILAR)



TYPICAL ONE-LANE CLOSURE

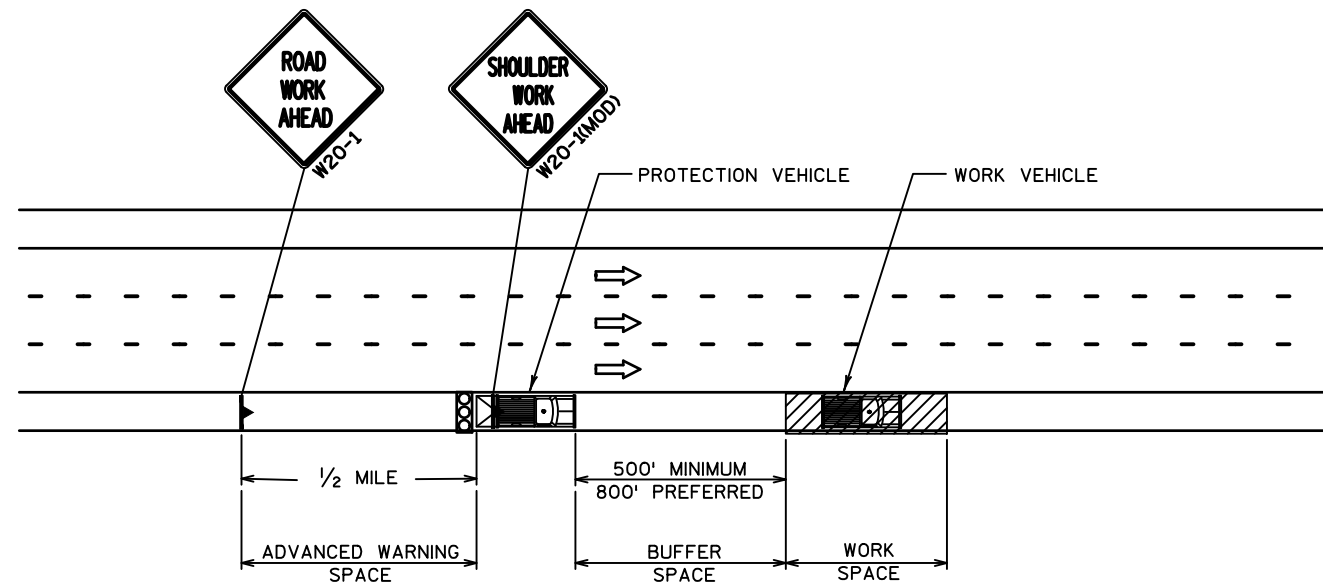
(RIGHT LANE CLOSURE SHOWN,
LEFT LANE CLOSURE SIMILAR)

GENERAL NOTES: TRAFFIC CONTROL

1. THE CONTRACTOR SHALL FURNISH, ERECT, MAINTAIN, MOVE AND REMOVE ALL TRAFFIC CONTROL SIGNS, SIGN SUPPORTS, CHANNELIZING DEVICES, ARROW BOARDS, WARNING LIGHTS, ETC. AS SPECIFIED IN THIS DETAIL, THE STANDARD SPECIFICATIONS, THE PLANS AND/OR THE SPECIAL PROVISIONS AND/OR AS DIRECTED BY THE ENGINEER.
2. THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND CHANNELIZING DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AND/OR AS DIRECTED BY THE ENGINEER.
3. IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE CHANNELIZING DEVICE SPACING MAY BE DECREASED TO 50' IN THE WORK SPACE.
4. FOR DAYTIME ONLY OPERATION: WARNING LIGHTS ARE NOT REQUIRED. ALL LANE CLOSURE SIGNS SHALL BE COVERED OR TURNED FROM THE MOTORIST'S VIEW AND CHANNELIZING DEVICES SHALL BE REMOVED BEYOND THE SHOULDER AT THE END OF THE WORKDAY IF THE LANE IS RESTORED TO A SAFE OPERATING CONDITION.
5. FOR NIGHT TIME OPERATION: CHANNELIZING DEVICES IN THE TRANSITION SPACE SHALL HAVE TYPE "C" (STEADY BURN) WARNING LIGHTS, BARRICADES SHIELDING AN ISOLATED HAZARD, SHALL HAVE TYPE "A" (LOW INTENSITY FLASHING) WARNING LIGHTS.
6. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
7. "WO" SIGN DESIGNATIONS ARE THE SAME AS "W" SIGN DESIGNATIONS EXCEPT THAT BACKGROUND IS ORANGE.
8. IF LANE CLOSURE IS MORE THAN 1 MILE, PLACE TYPE III BARRICADES APPROXIMATELY EVERY 1000' ACROSS THE CLOSED LANE TO HELP ENFORCE THE DELINEATION.
9. CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500' IN FRONT OF DRUMS.

LEGEND:

- SIGN ON TEMPORARY SUPPORT
- CHANNELIZING DEVICE (CONE OR DRUM)
- ARROW BOARD



**MOBILE OPERATION ON SHOULDER
FOR 10' OR WIDER SHOULDERS ONLY**
(RIGHT SHOULDER CLOSURE SHOWN,
LEFT SHOULDER CLOSURE SIMILAR)

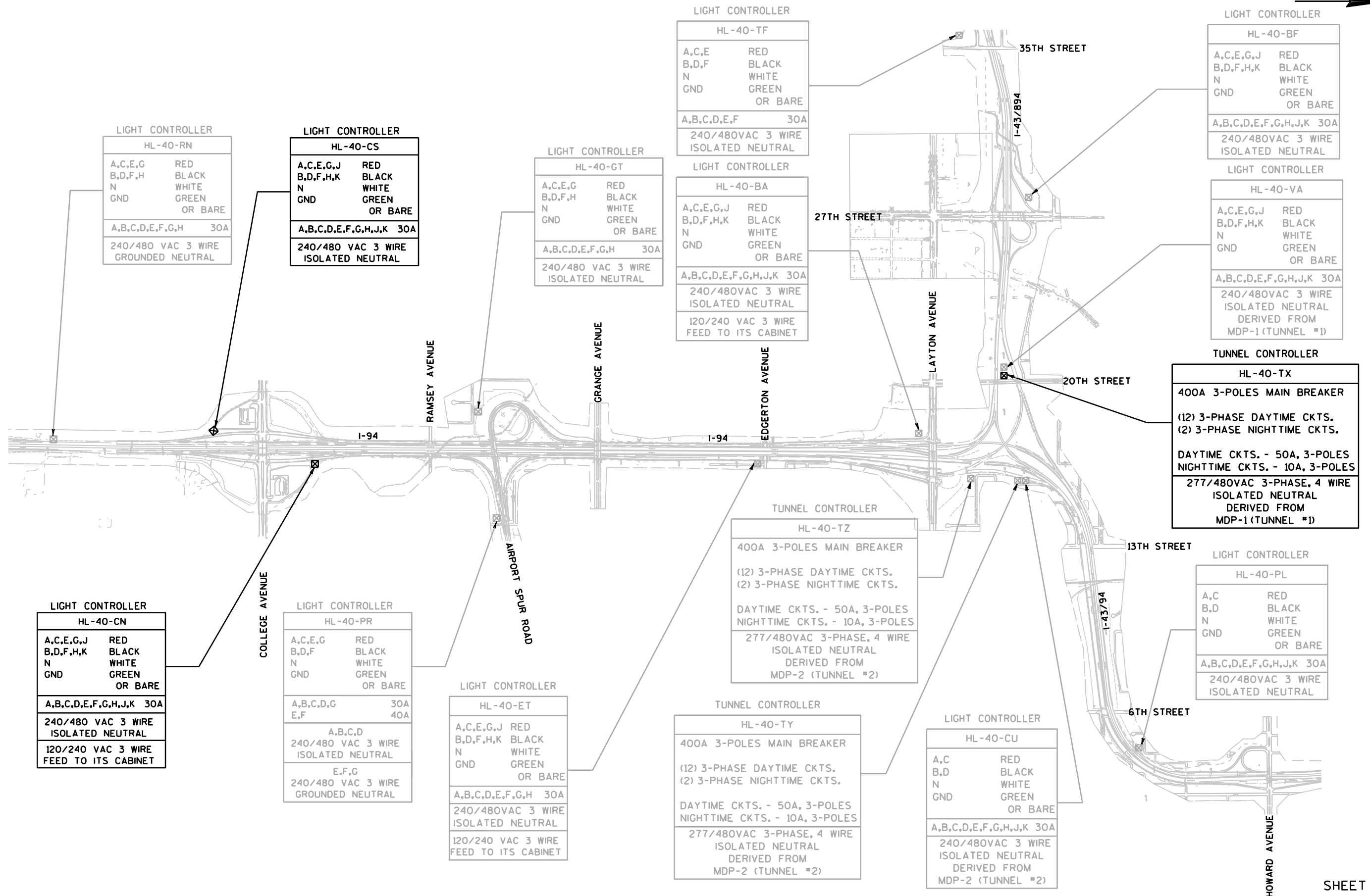
TRAFFIC CONTROL FOR FREEWAY LIGHTING MAINTENANCE
MOBILE OPERATIONS - SHOULDER CLOSURE
CONTINUOUS OR INTERMITTENT MOVEMENT (STOPS LESS THAN 15 MINUTES)

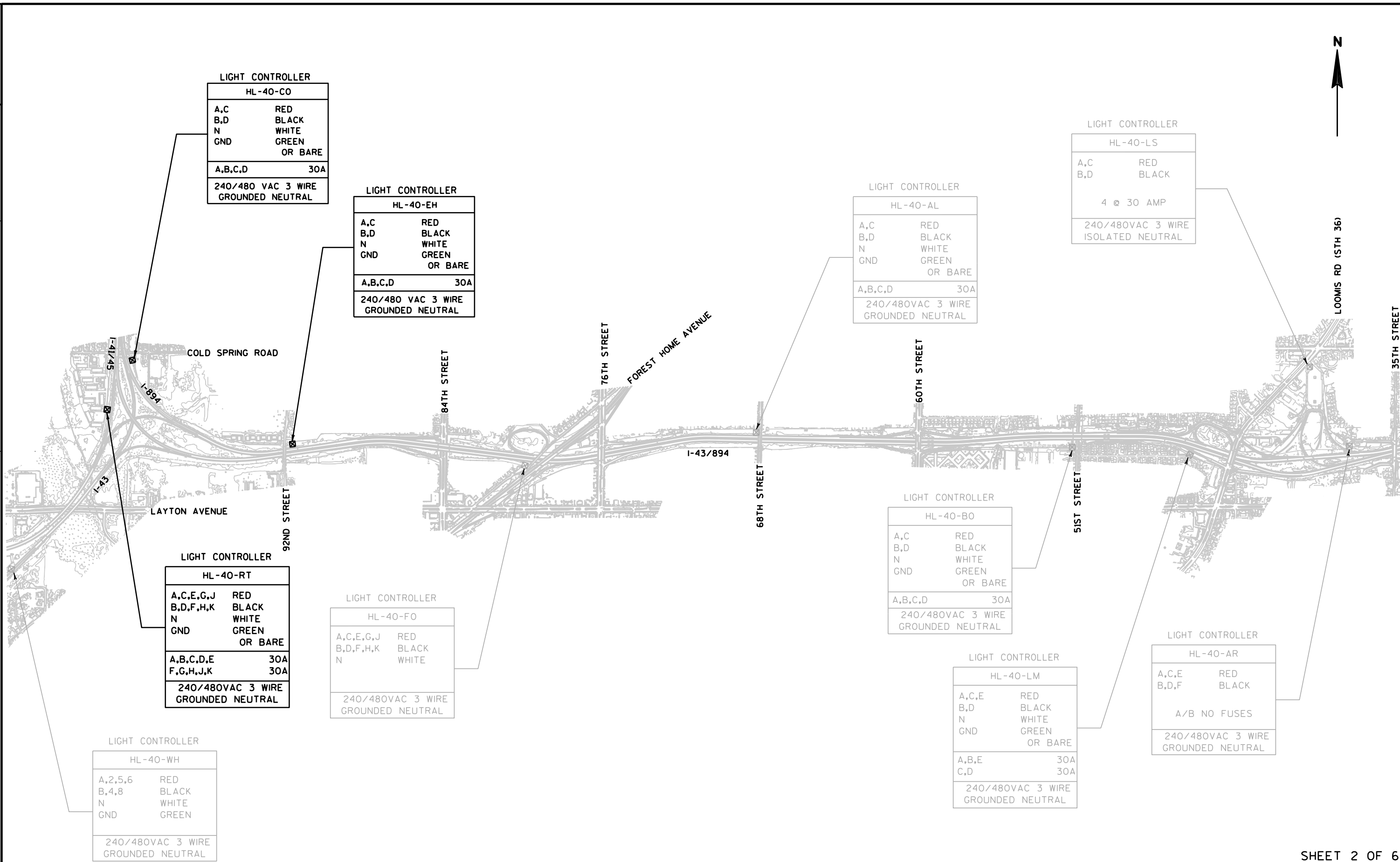
GENERAL NOTES: TRAFFIC CONTROL

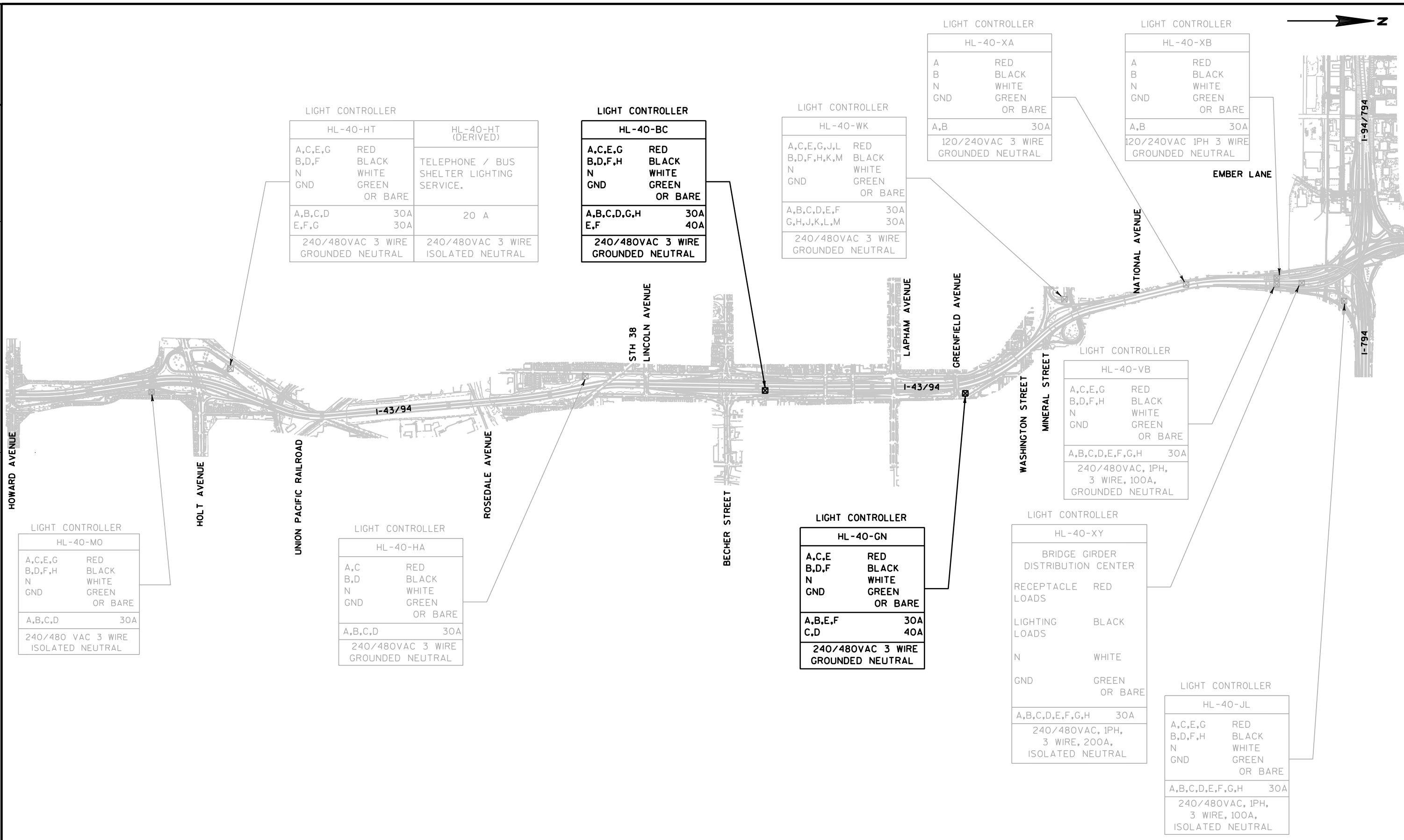
1. THE CONTRACTOR SHALL FURNISH, ERECT, MAINTAIN, MOVE AND REMOVE ALL TRAFFIC CONTROL SIGNS, SIGN SUPPORTS, CHANNELIZING DEVICES, TMAs, ARROW BOARDS, WARNING LIGHTS, ETC. AS SPECIFIED IN THIS DETAIL, THE STANDARD SPECIFICATIONS, THE PLANS AND/OR THE SPECIAL PROVISIONS AND/OR AS DIRECTED BY THE ENGINEER.
2. THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND CHANNELIZING DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AND/OR AS DIRECTED BY THE ENGINEER.
3. IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE REDUCES VISIBILITY, PROTECTION VEHICLE OPERATORS SHOULD INCREASE THE LENGTH OF THE BUFFER SPACE TO MAINTAIN VISIBILITY TO VEHICLES APPROACHING FROM THE REAR.
4. MOBILE OPERATIONS ARE PERMITTED FOR DAYTIME OPERATIONS ONLY.
5. THE ENGINEER IN THE FIELD MAY PROHIBIT MOBILE OPERATIONS DURING RAIN OR WHEN FOGGY.
6. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
7. "WO" SIGN DESIGNATIONS ARE THE SAME AS "W" SIGN DESIGNATIONS EXCEPT THAT BACKGROUND IS ORANGE.

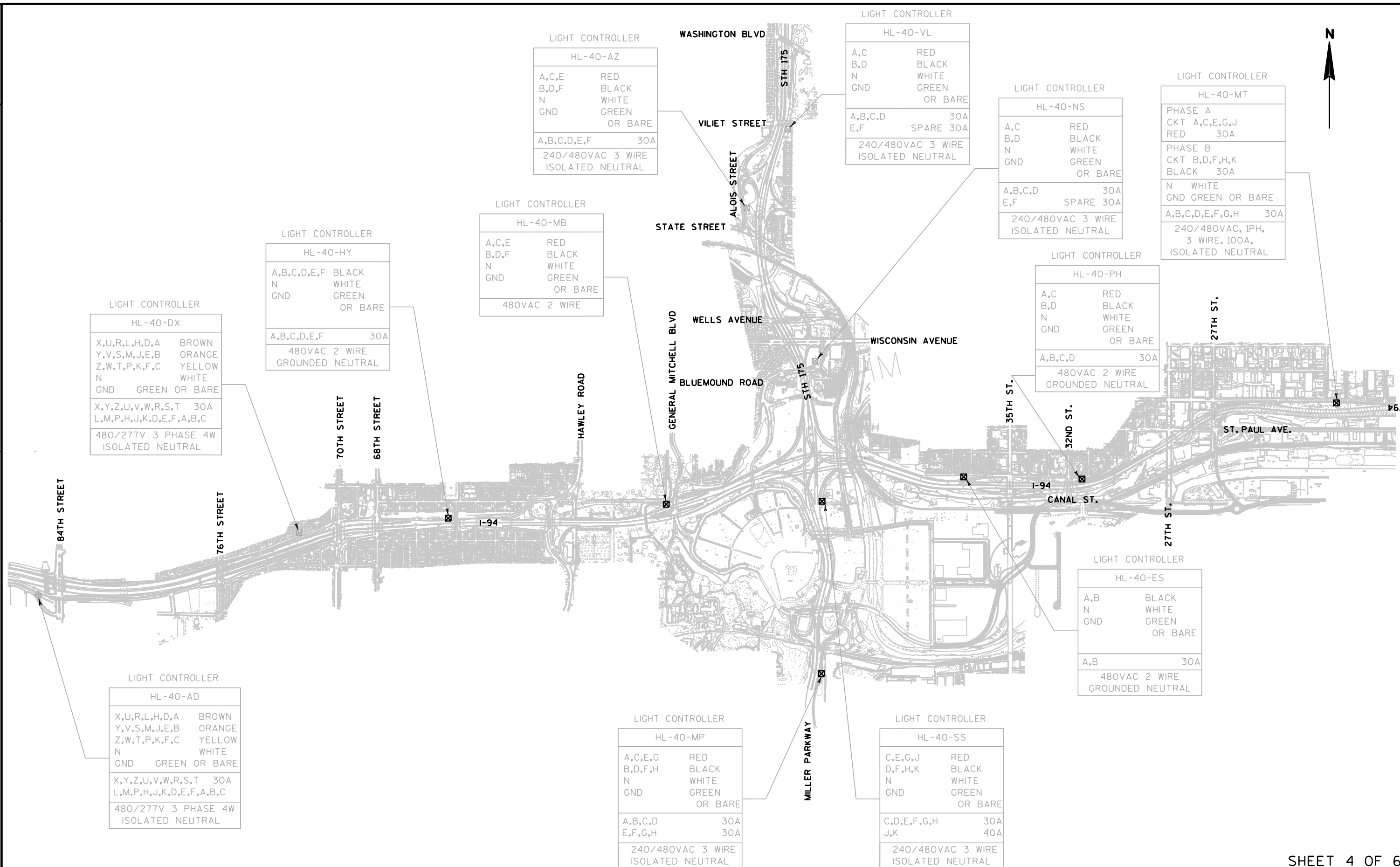
LEGEND:

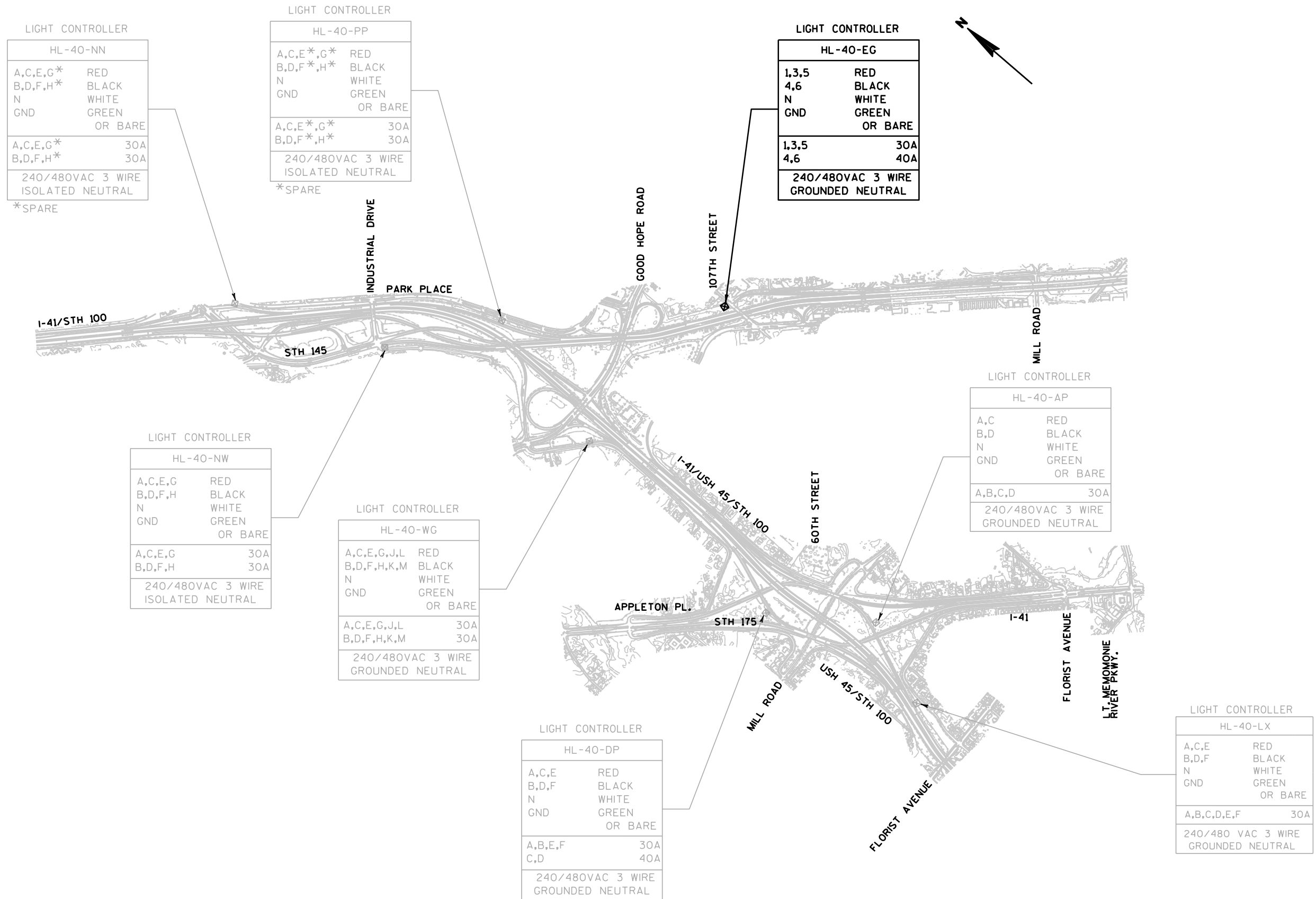
-  SIGN ON TEMPORARY SUPPORT
-  ARROW BOARD
-  TMA (TRUCK MOUNTED ATTENUATOR)
-  WORK VEHICLE

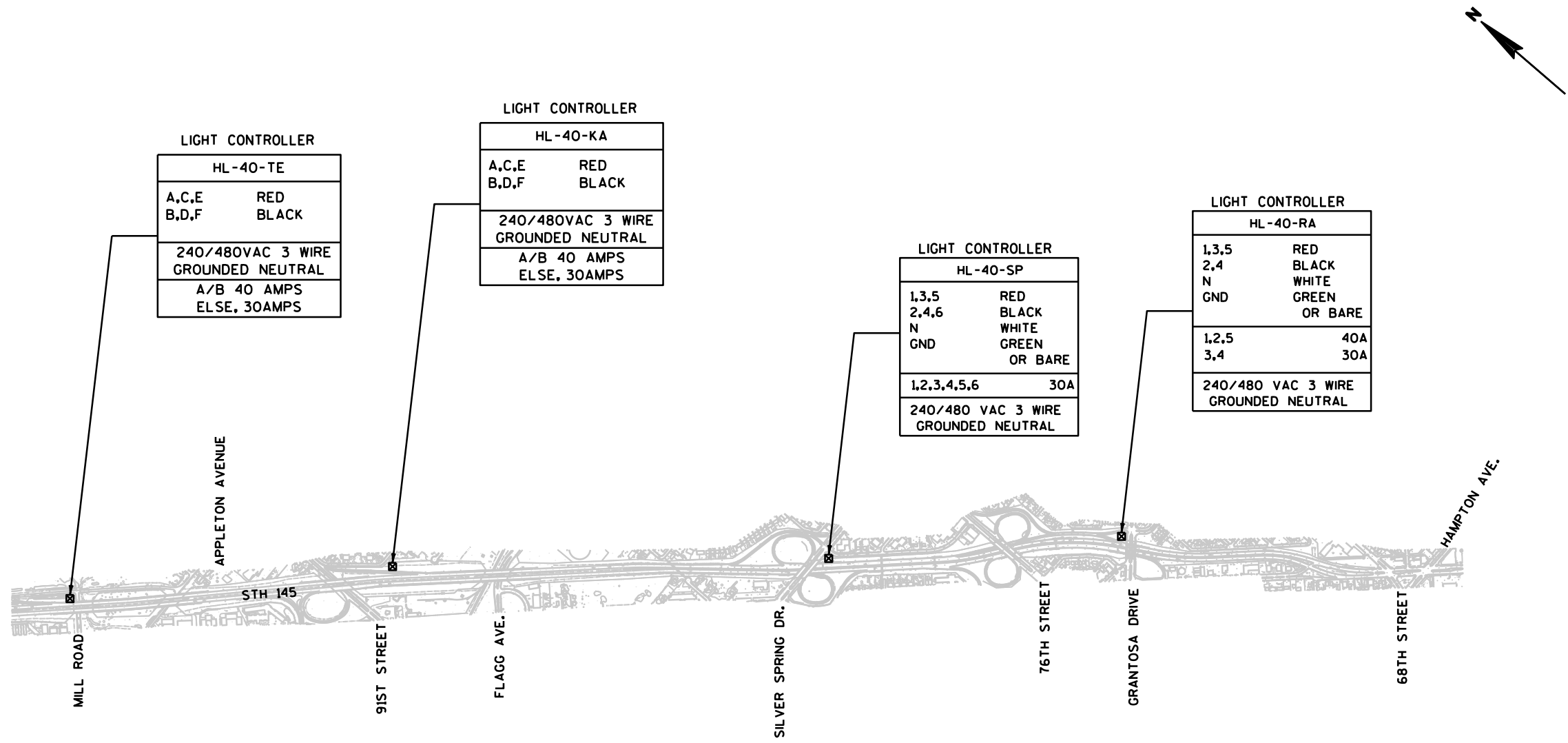


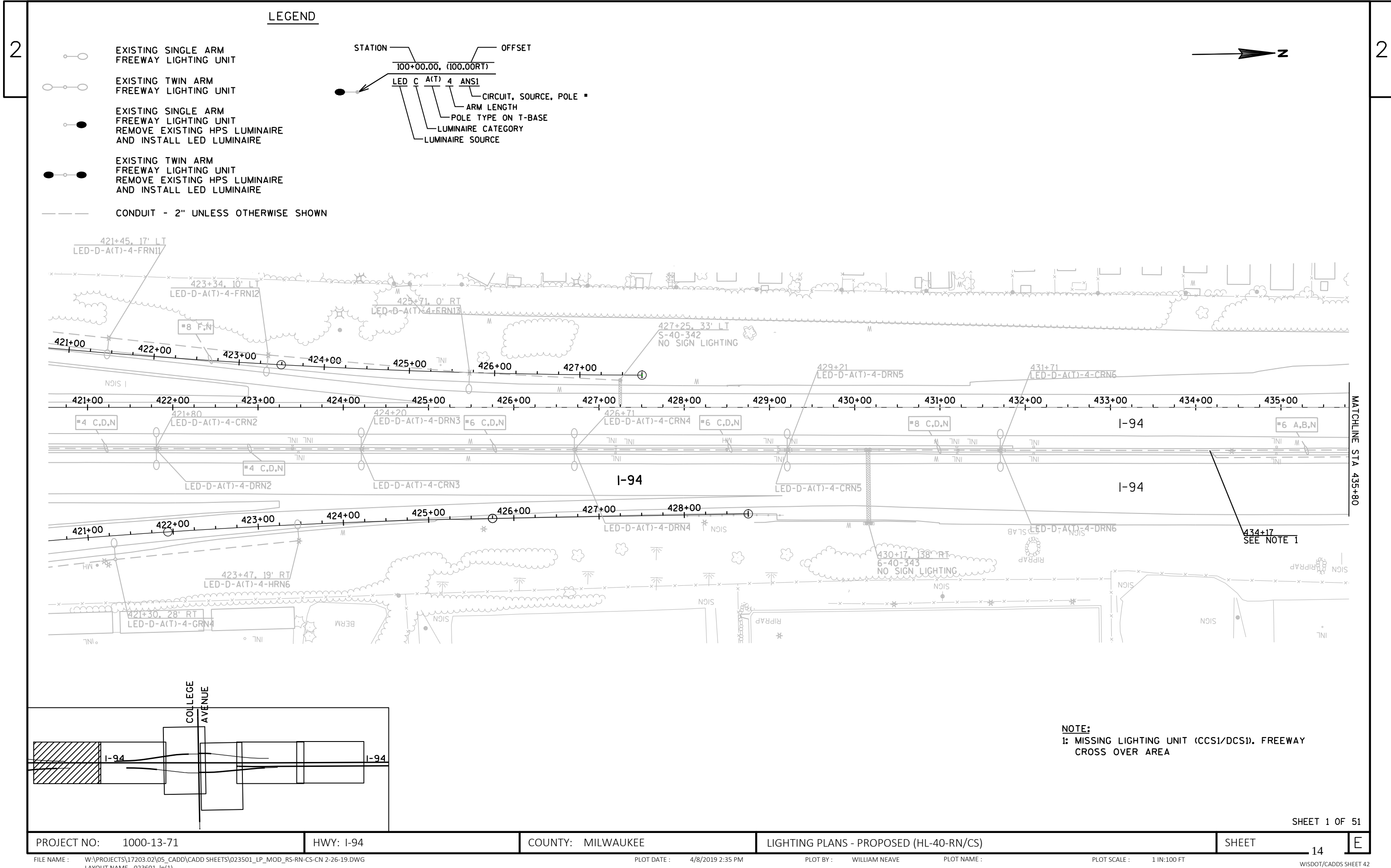


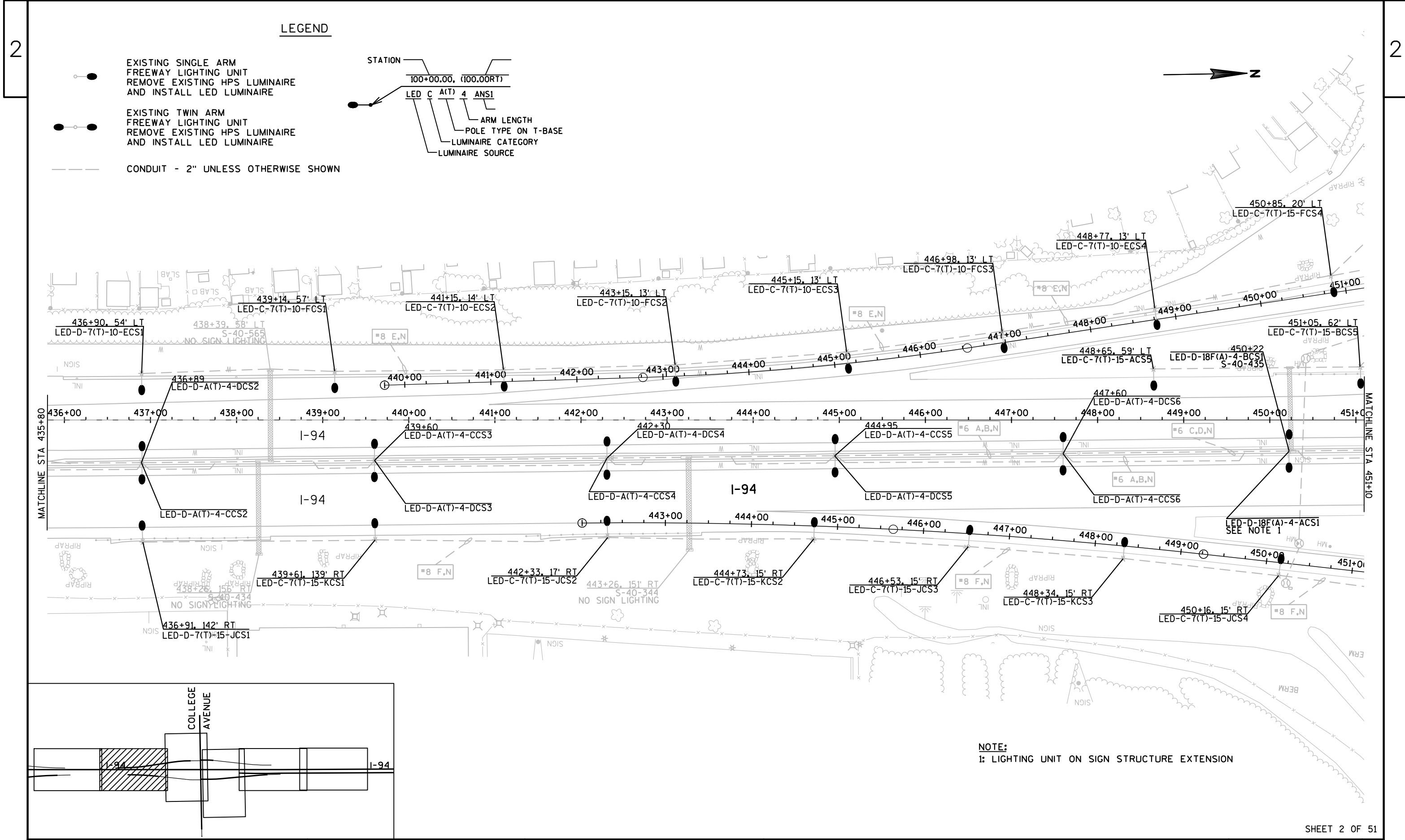








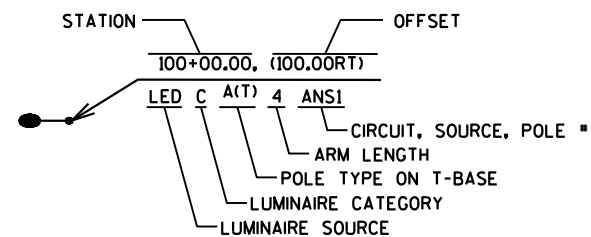




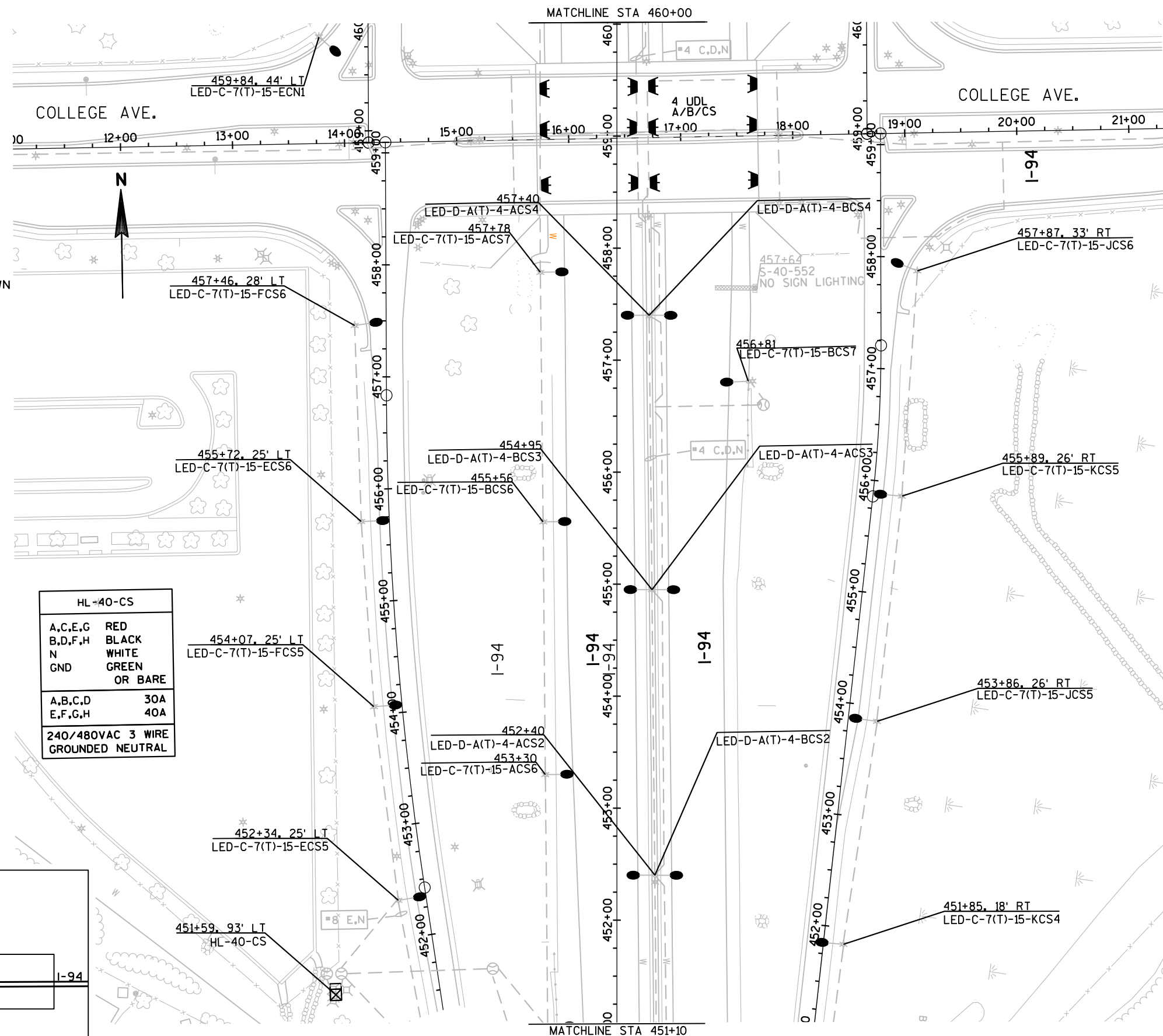
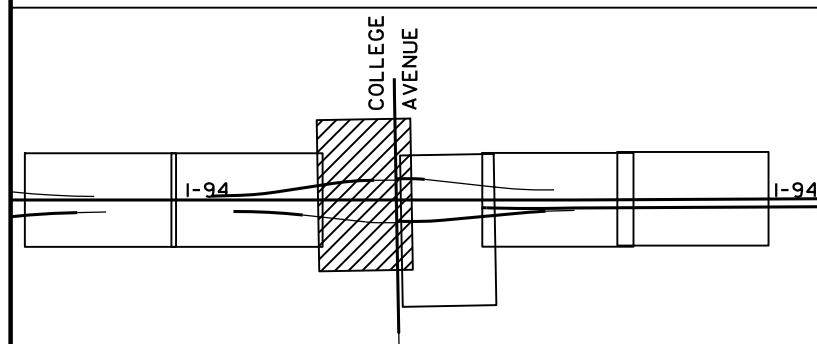
NOTE:
I: LIGHTING UNIT ON SIGN STRUCTURE EXTENSION

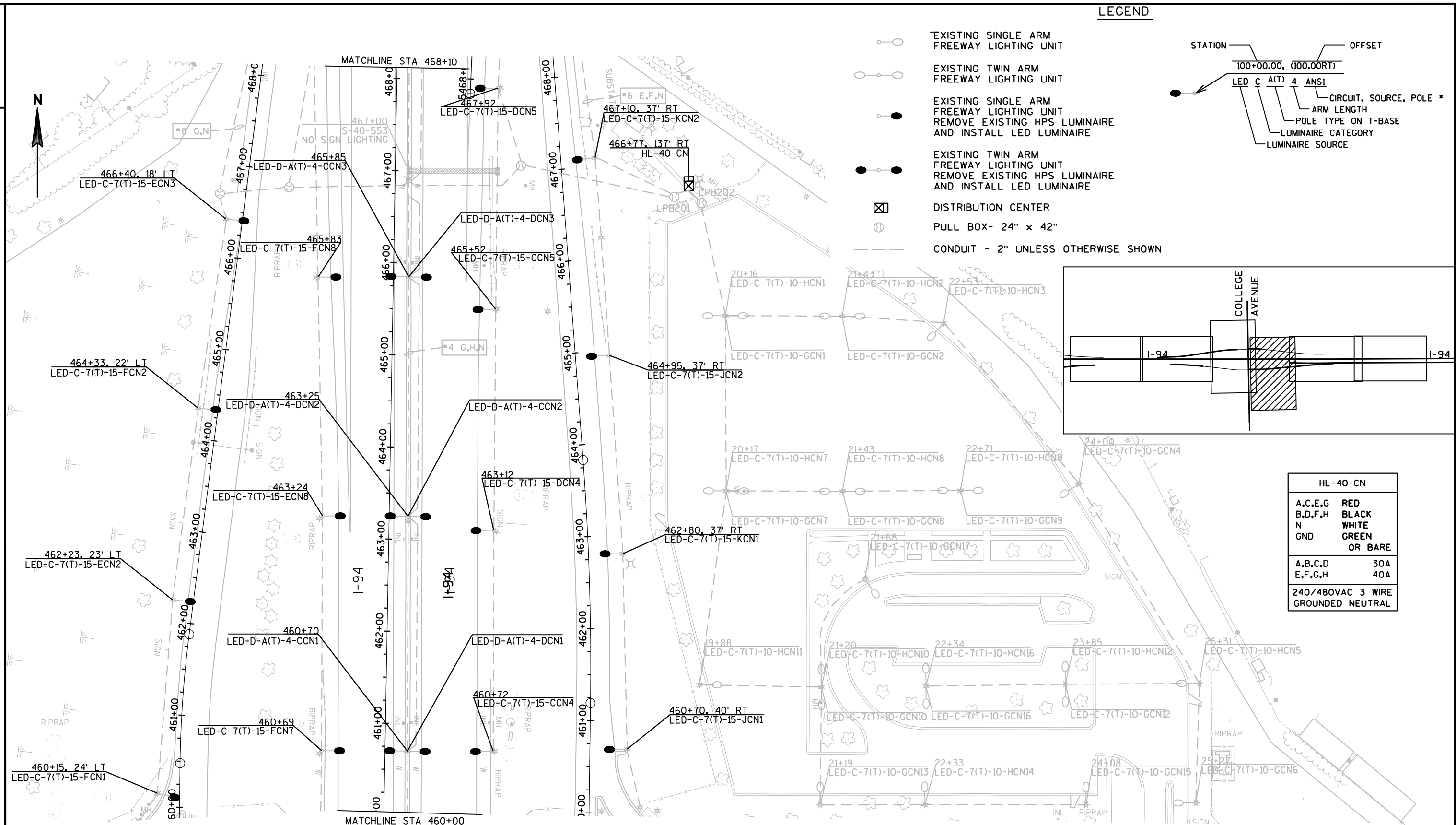
LEGEND

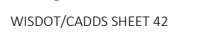
- EXISTING SINGLE ARM
FREEWAY LIGHTING UNIT
REMOVE EXISTING HPS LUMINAIRE
AND INSTALL LED LUMINAIRE
- EXISTING TWIN ARM
FREEWAY LIGHTING UNIT
REMOVE EXISTING HPS LUMINAIRE
AND INSTALL LED LUMINAIRE
- ⏏ UDL (UNDER DECK LIGHTING)
- ⊠ DISTRIBUTION CENTER
- ⊙ PULL BOX- 24" x 42"
- CONDUIT - 2" UNLESS OTHERWISE SHOWN

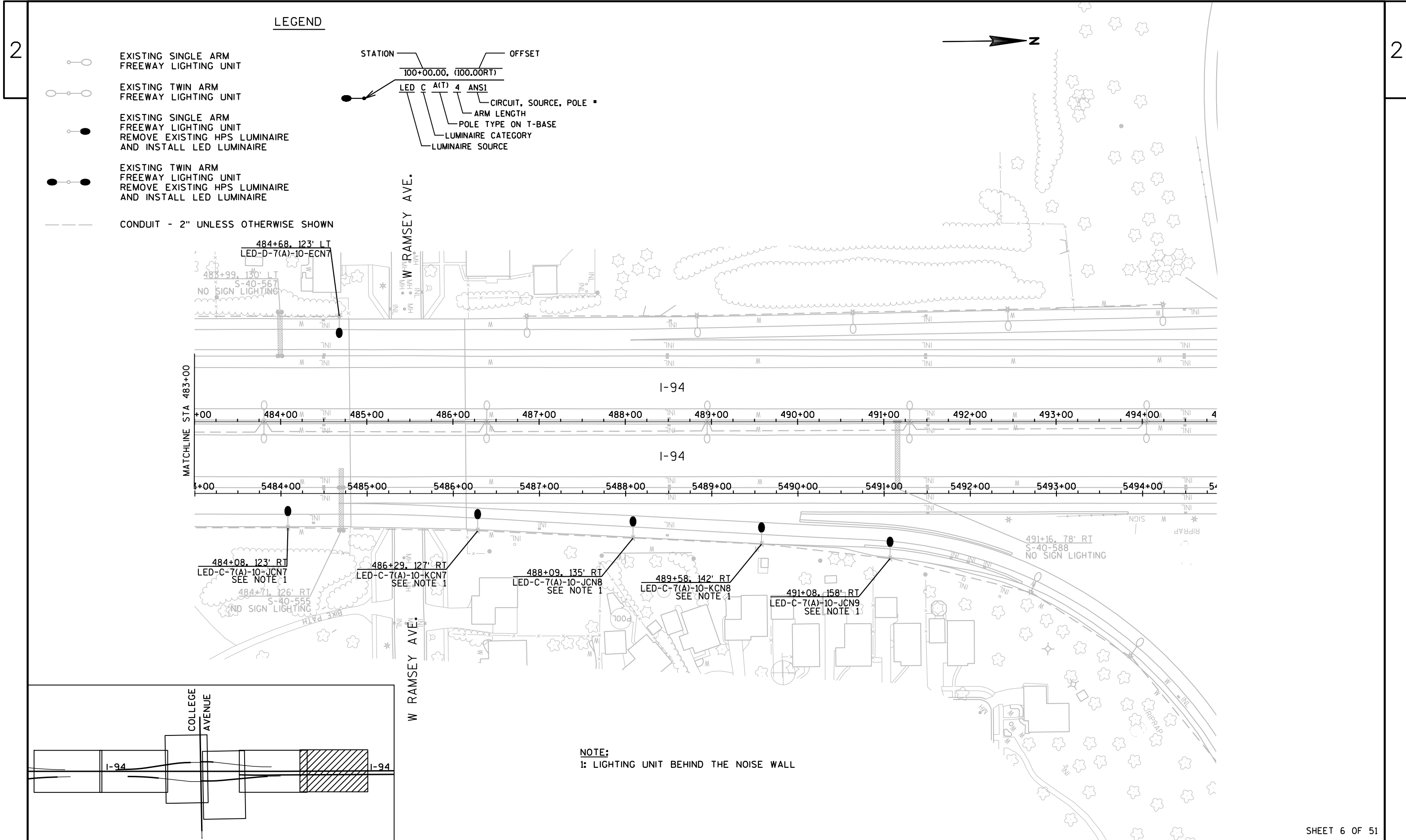


HL-40-CS	
A,C,E,G	RED
B,D,F,H	BLACK
N	WHITE
GND	GREEN OR BARE
A,B,C,D	30A
E,F,G,H	40A
240/480VAC 3 WIRE GROUNDED NEUTRAL	









LEGEND

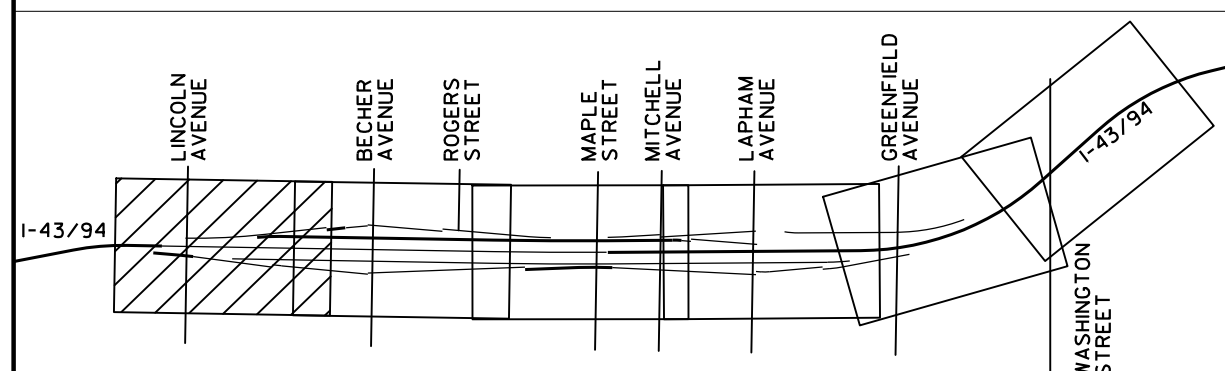
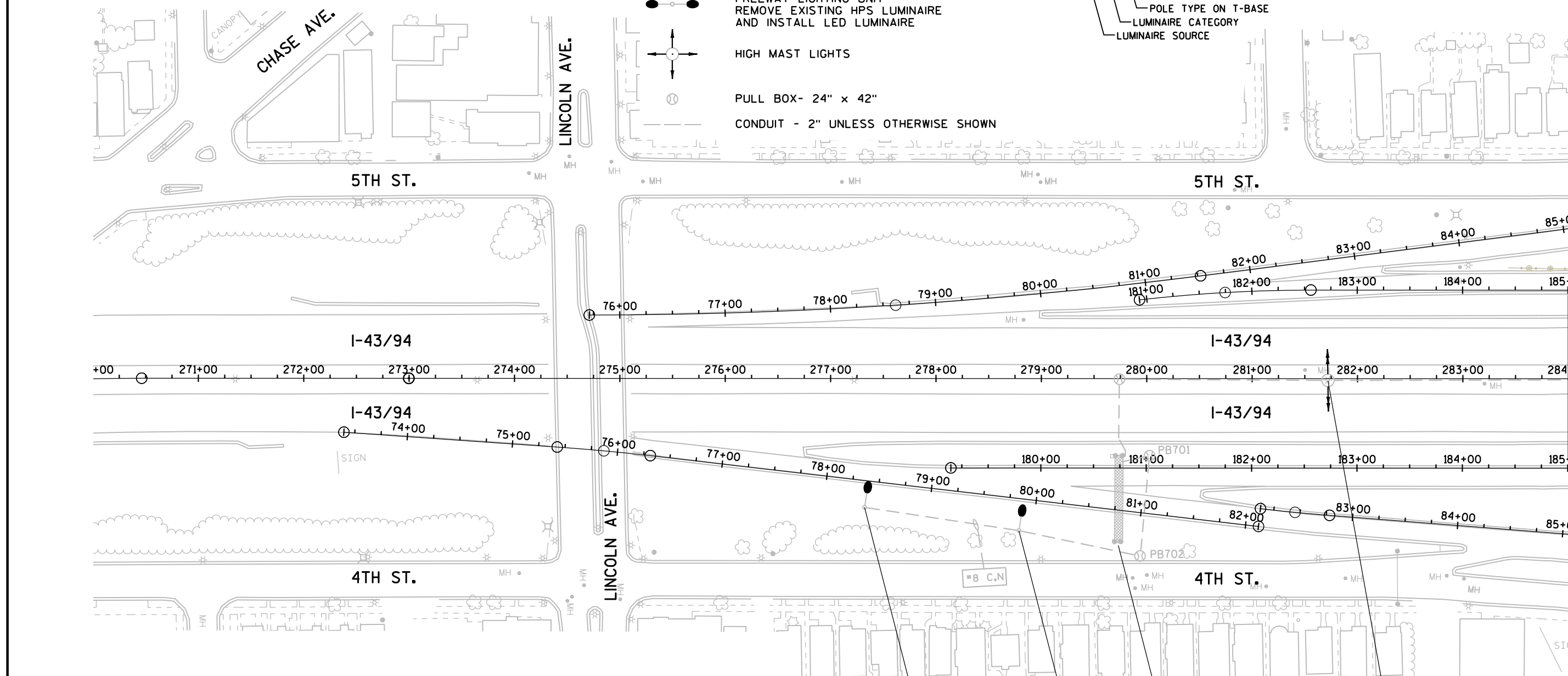
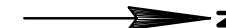
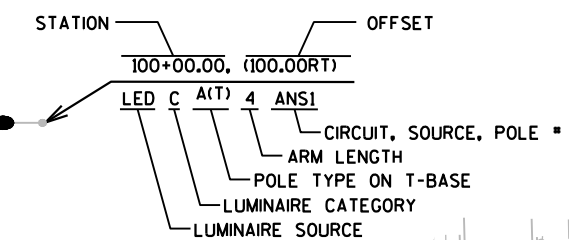
EXISTING SINGLE ARM
FREEWAY LIGHTING UNIT
REMOVE EXISTING HPS LUMINAIRE
AND INSTALL LED LUMINAIRE

EXISTING TWIN ARM
FREEWAY LIGHTING UNIT
REMOVE EXISTING HPS LUMINAIRE
AND INSTALL LED LUMINAIRE

HIGH MAST LIGHTS

PULL BOX- 24" x 42"

CONDUIT - 2" UNLESS OTHERWISE SHOWN



SHEET 7 OF 51

PROJECT NO: 1000-13-71

HWY: I-94

COUNTY: MILWAUKEE

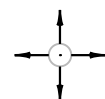
LIGHTING PLANS - PROPOSED (HL-40-BC)

SHEET

20

E

LEGEND



HIGH MAST LIGHTS



ELECTRIC METER SOCKET



DISTRIBUTION CENTER



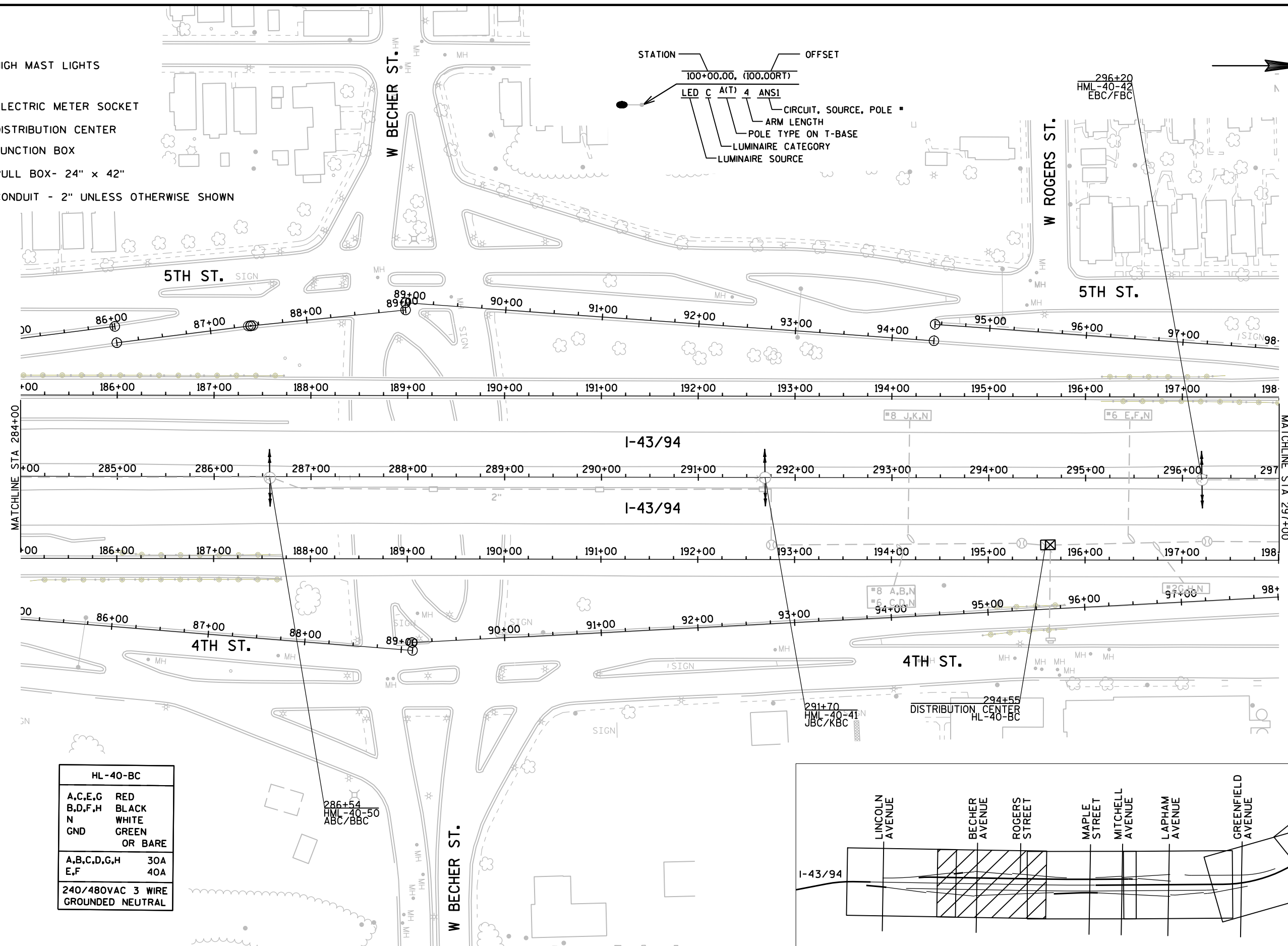
JUNCTION BOX



PULL BOX- 24" x 42"



CONDUIT - 2" UNLESS OTHERWISE SHOWN



SHEET 8 OF 51

PROJECT NO: 1000-13-71

HWY: I-94

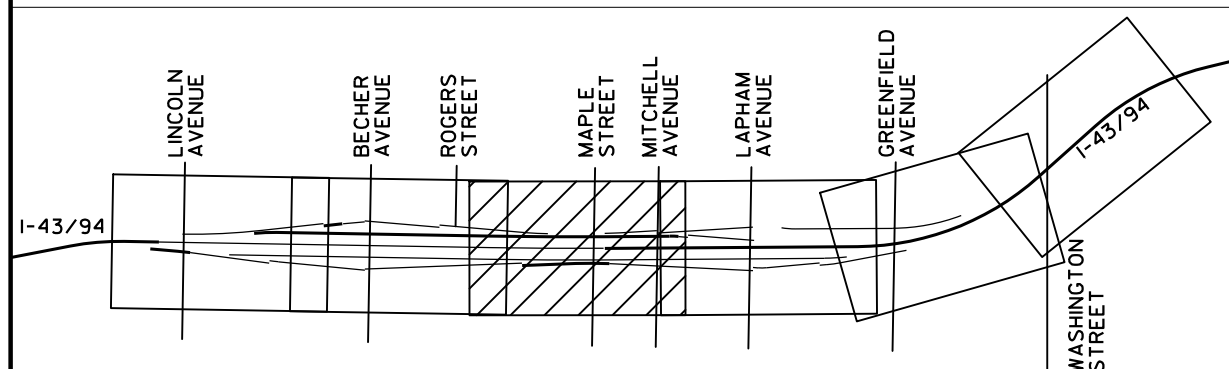
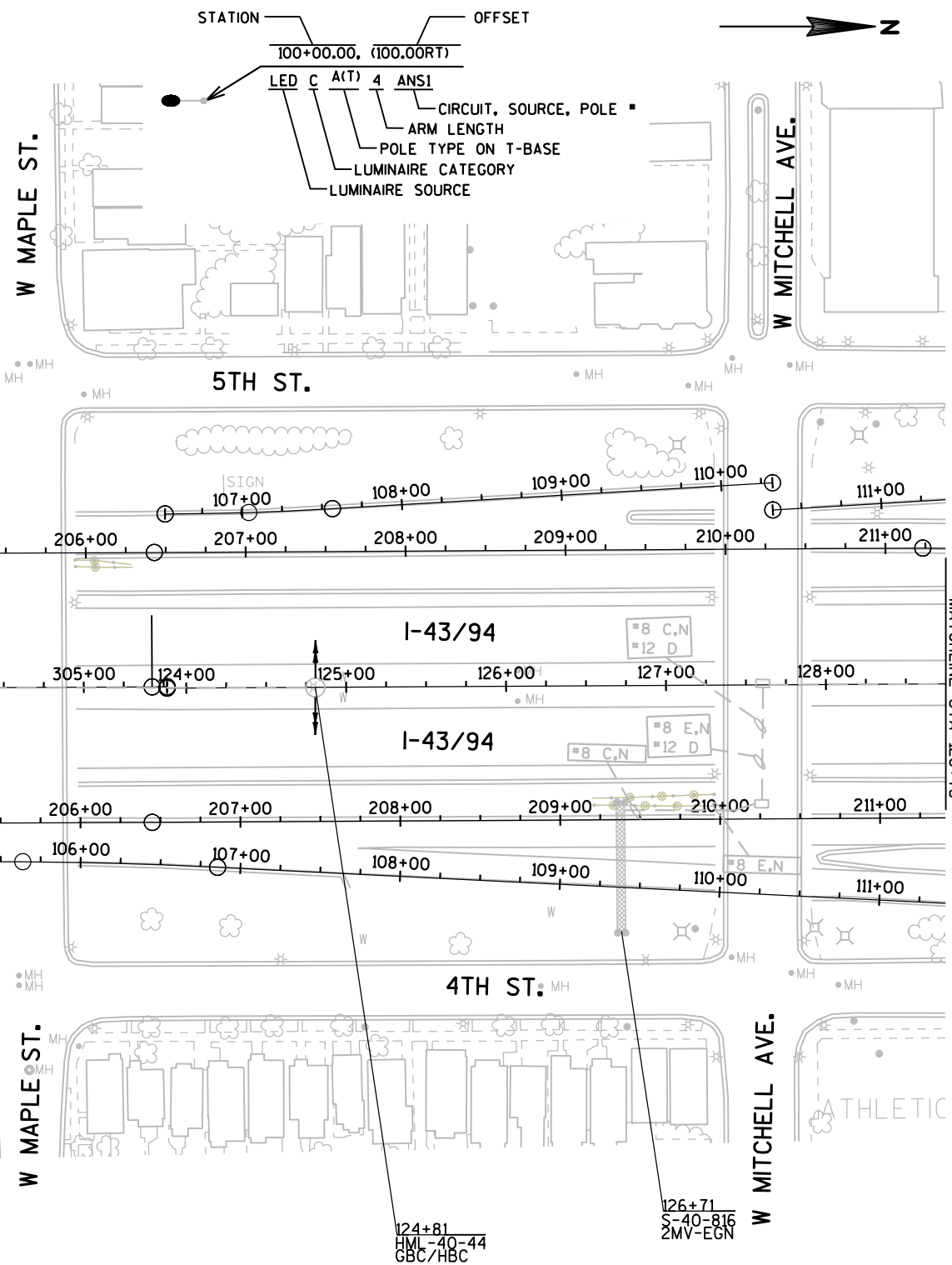
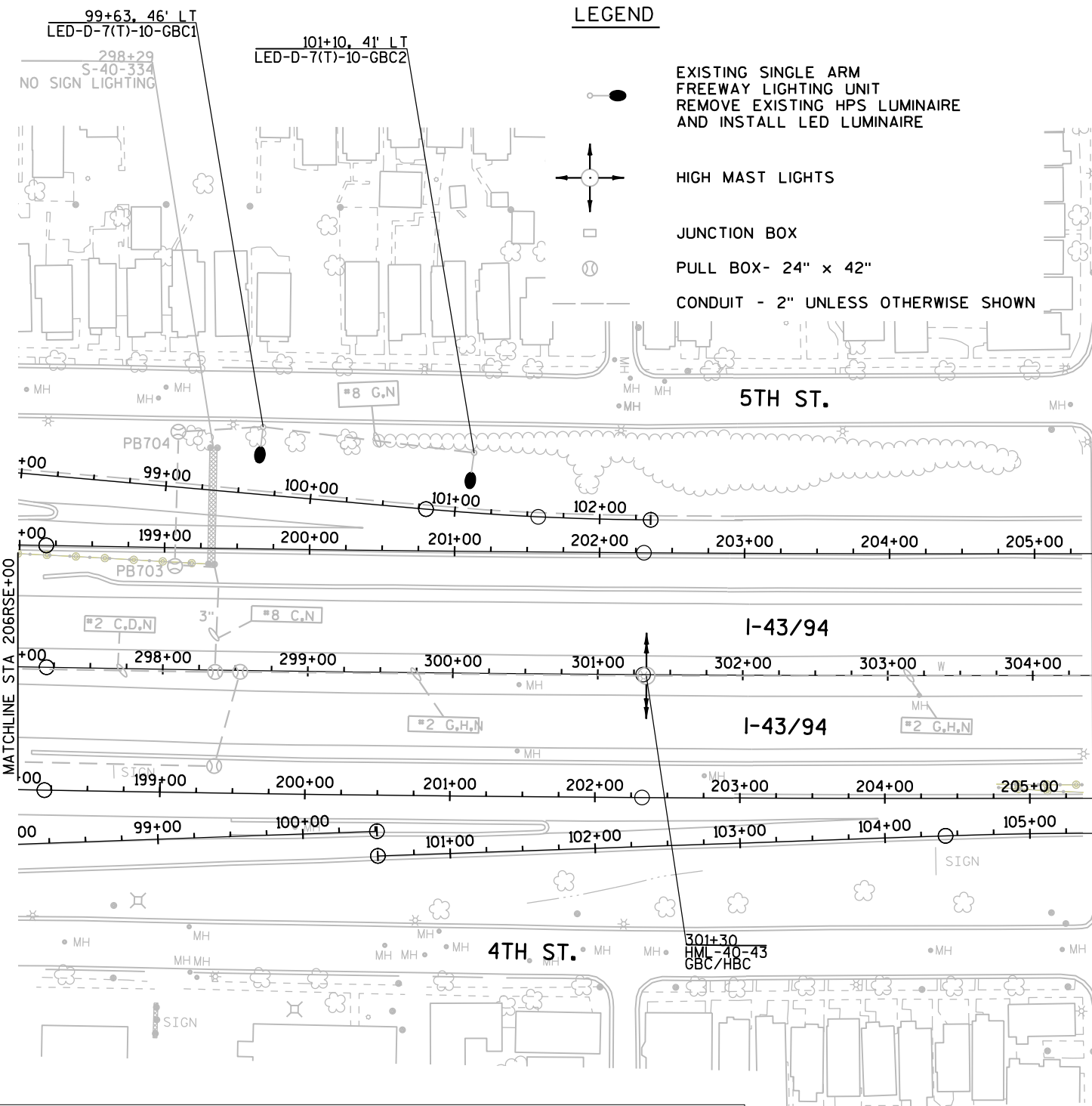
COUNTY: MILWAUKEE

LIGHTING PLANS - PROPOSED (HL-40-BC)

SHEET

21

E



LEGEND

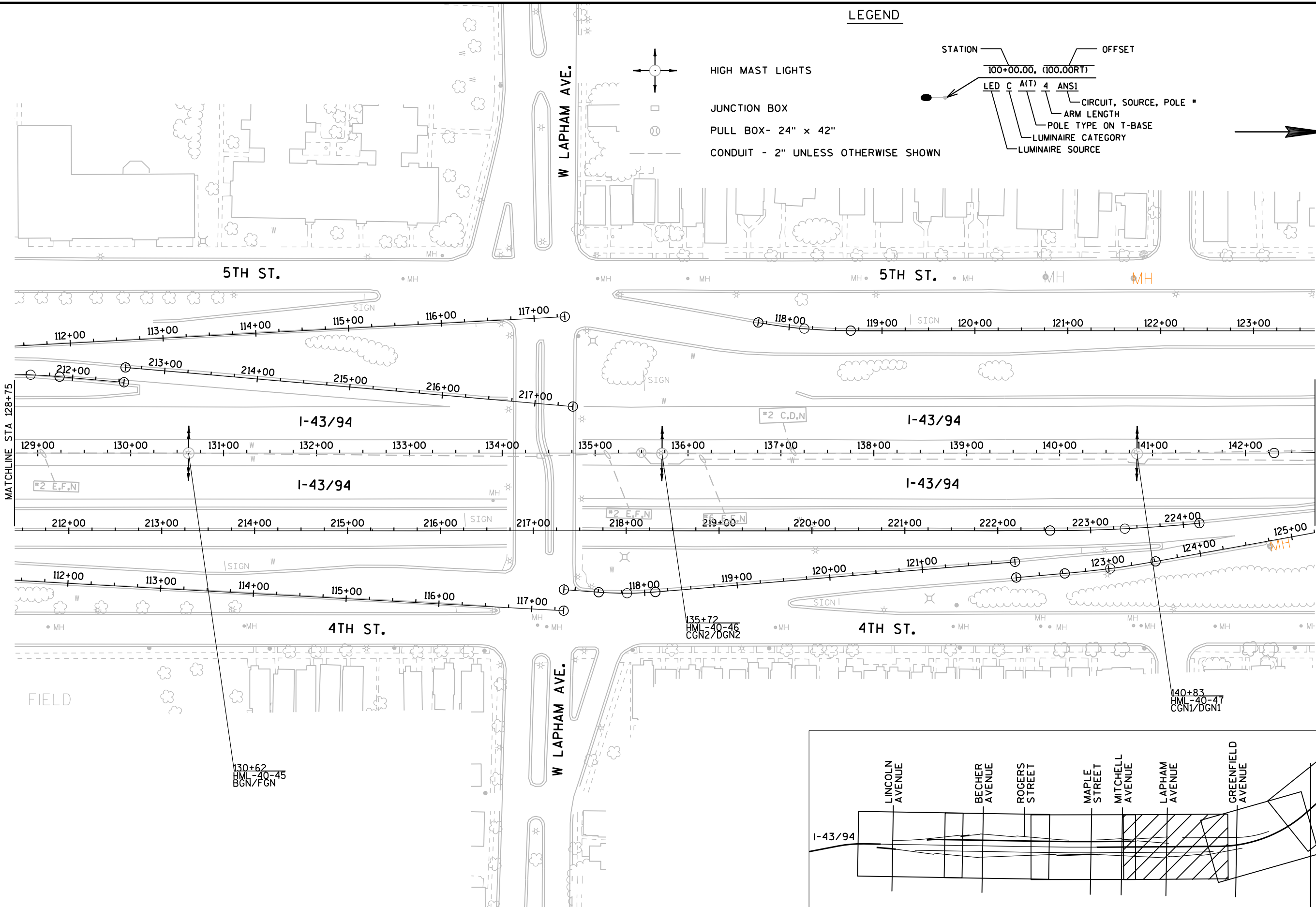
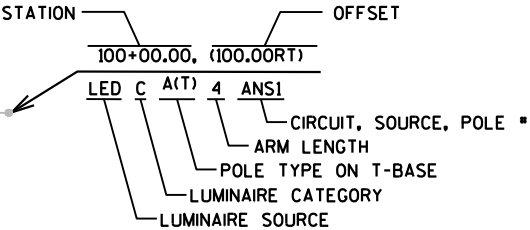


HIGH MAST LIGHTS

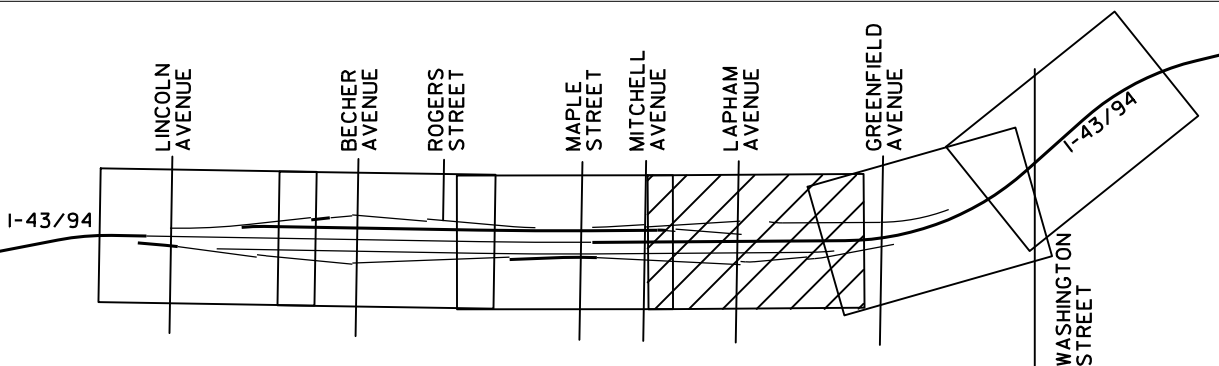
JUNCTION BOX

PULL BOX- 24" x 42"

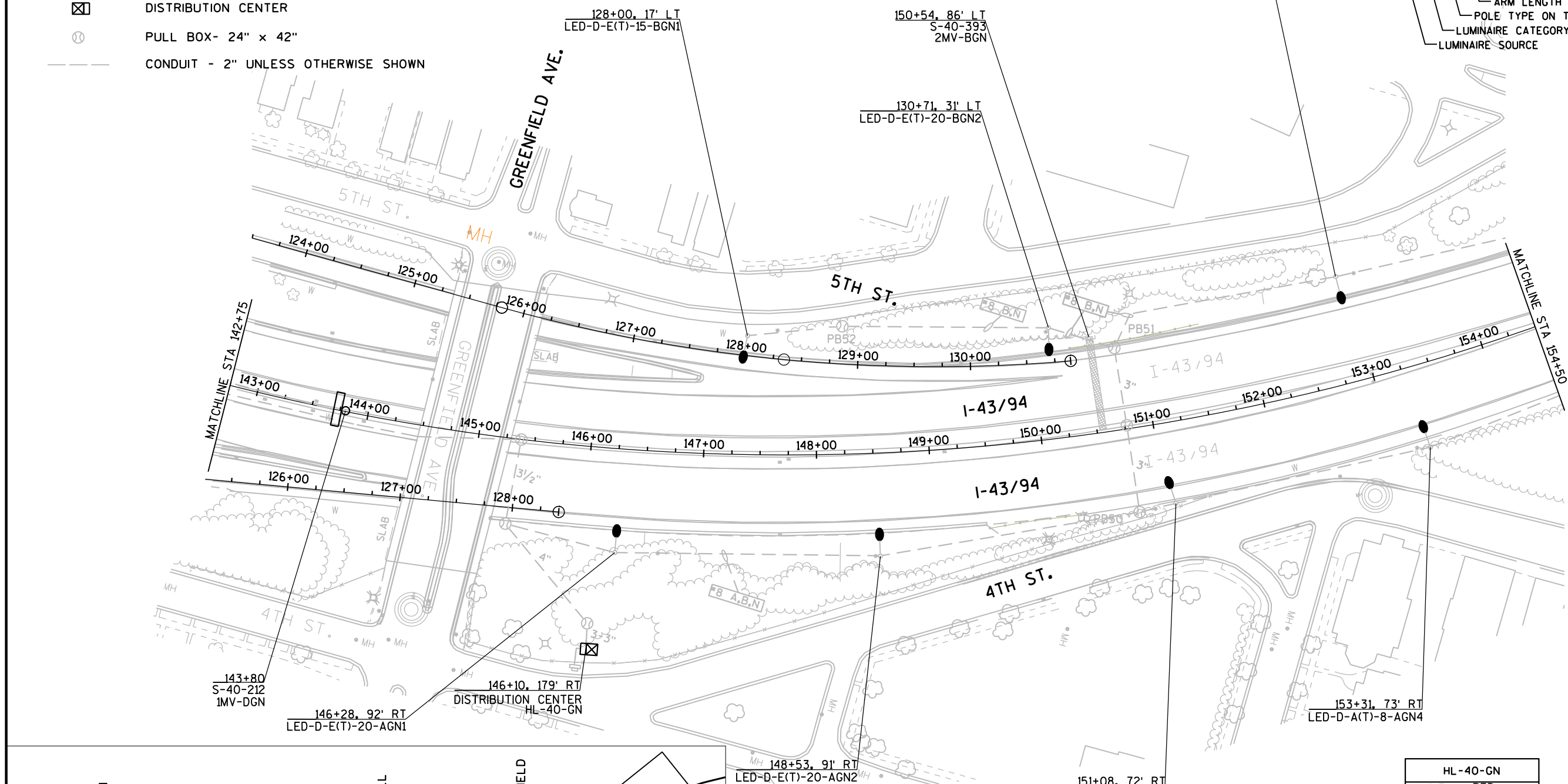
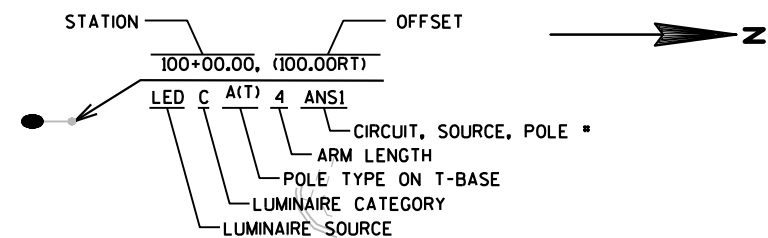
CONDUIT - 2" UNLESS OTHERWISE SHOWN



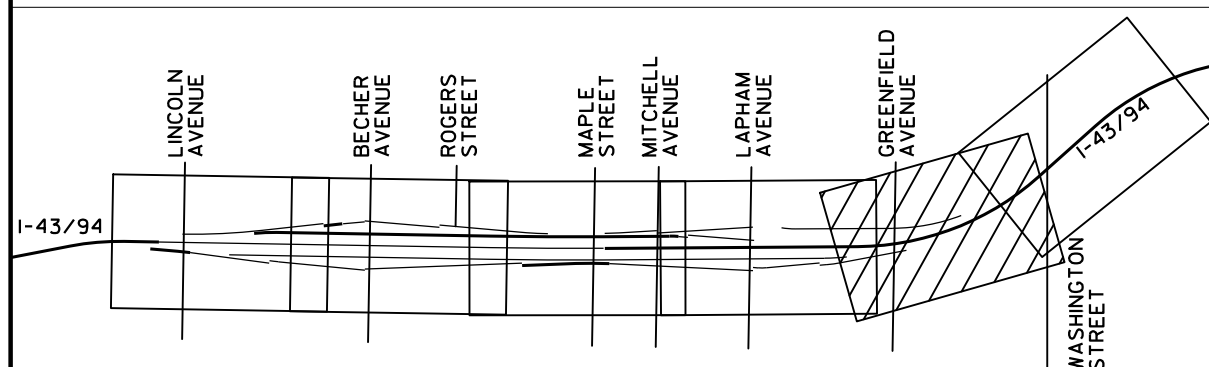
SHEET 10 OF 51



	EXISTING SINGLE ARM FREEWAY LIGHTING UNIT REMOVE EXISTING HPS LUMINAIRE AND INSTALL LED LUMINAIRE
	ELECTRIC METER SOCKET
	DISTRIBUTION CENTER
	PULL BOX- 24" x 42"
	CONDUIT - 2" UNLESS OTHERWISE SHOWN



HL-40-GN	
A,C,E	RED
B,D,F	BLACK
N	WHITE
GND	GREEN
OR BARE	
A,B,E,F	30A
C,D	40A
240/480VAC 3 WIRE GROUNDED NEUTRAL	



LEGEND

EXISTING SINGLE ARM
FREEWAY LIGHTING UNIT
REMOVE EXISTING HPS LUMINAIRE
AND INSTALL LED LUMINAIRE

PULL BOX- 24" x 42"

CONDUIT - 2" UNLESS OTHERWISE SHOWN

STATION OFFSET

100+00.00, (100.00RT)

LED C A(T) 4 ANSI

CIRCUIT, SOURCE, POLE

ARM LENGTH

POLE TYPE ON T-BASE

LUMINAIRE CATEGORY

LUMINAIRE SOURCE

WASHINGTON ST.

158+51.59' LT
LED-D-A(T)-4-BGN6

I-43/94

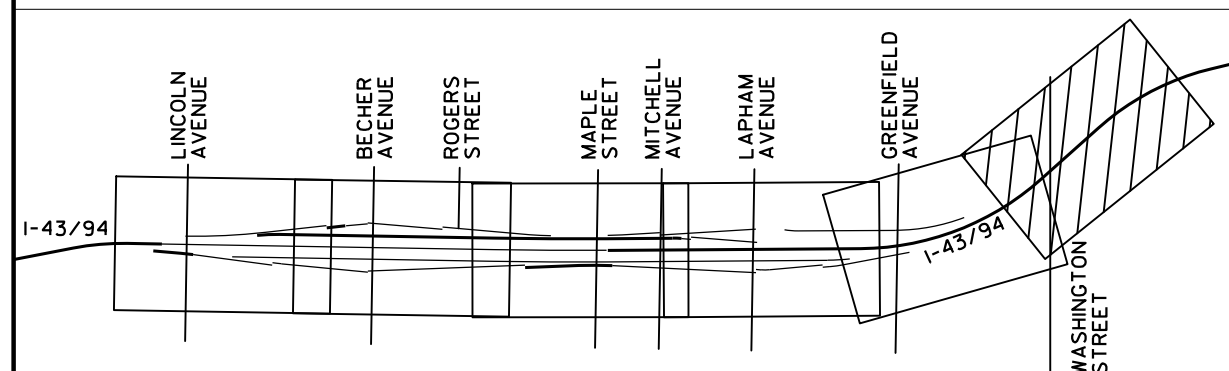
I-43/94

S.T.H. 38

S.T.H. 38

155+59.63' RT
LED-D-A(T)-8-AGN5

157+97.66' RT
LED-D-A(T)-4-AGN6



SHEET 12 OF 51

PROJECT NO: 1000-13-71

HWY: I-94

COUNTY: MILWAUKEE

LIGHTING PLANS - PROPOSED (HL-40-GN)

SHEET

25

E

FILE NAME: W:\PROJECTS\17203.02\05_CADD\CADD SHEETS\023501_LP_MOD_BC-GN 2-21-19.DWG
LAYOUT NAME - Sheet - (6)

PLOT DATE: 4/8/2019 3:33 PM

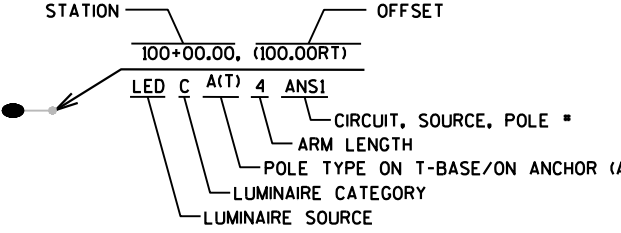
PLOT BY: WILLIAM NEAVE

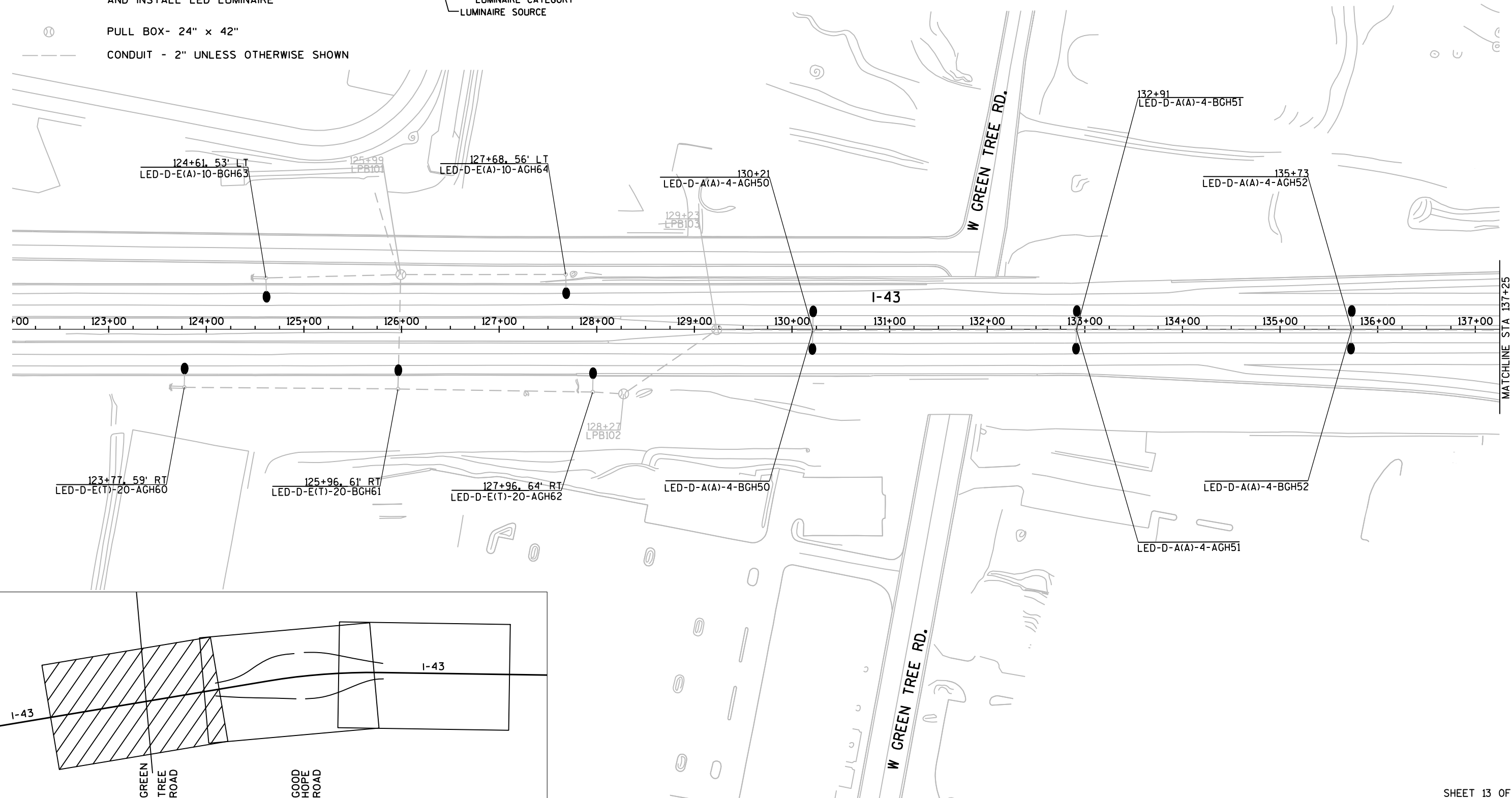
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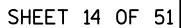
PLOT SCALE: 1 IN:100 FT

WISDOT/CADD SHEET 42

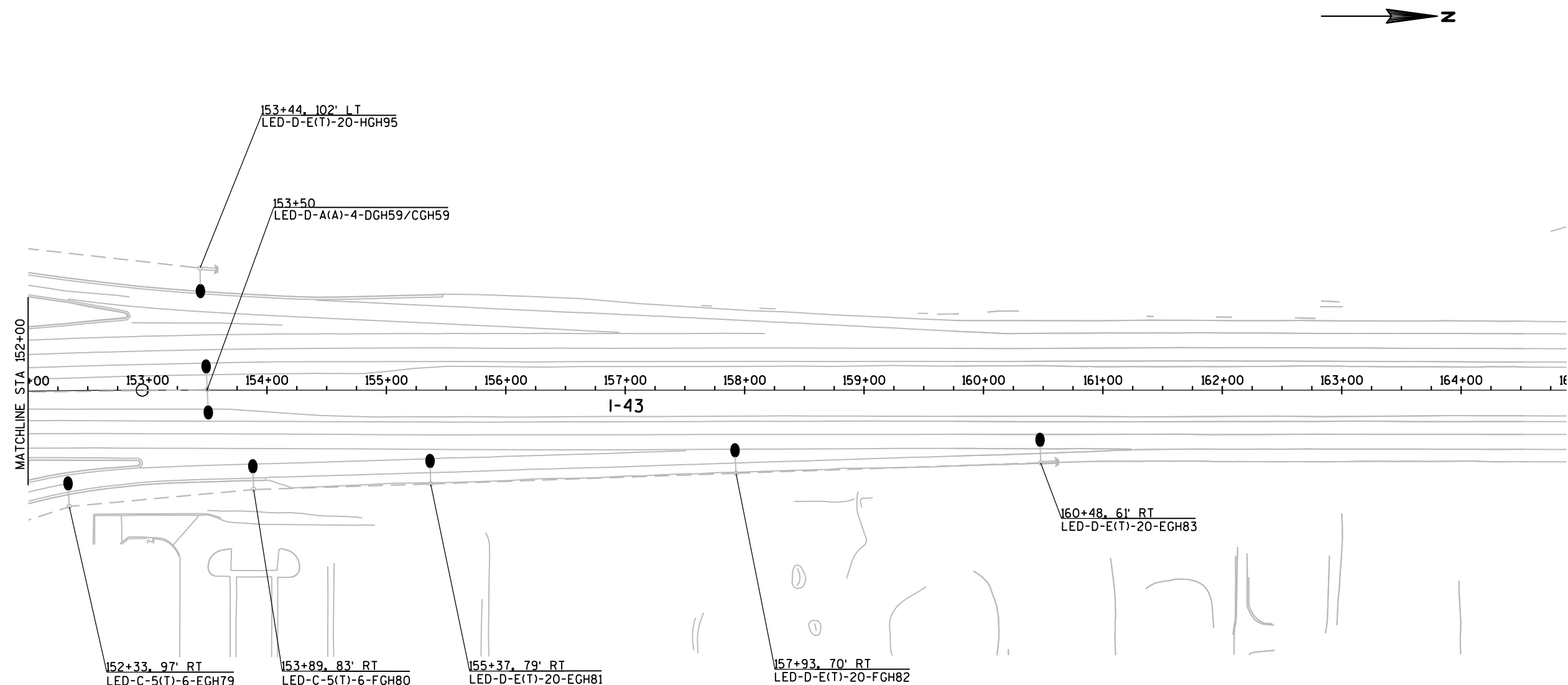
LEGEND

-
-  EXISTING SINGLE ARM
 FREEWAY LIGHTING UNIT
 REMOVE EXISTING HPS LUMINAIRE
 AND INSTALL LED LUMINAIRE
-  EXISTING TWIN ARM
 FREEWAY LIGHTING UNIT
 REMOVE EXISTING HPS LUMINAIRE
 AND INSTALL LED LUMINAIRE
-  PULL BOX- 24" x 42"
-  CONDUIT - 2" UNLESS OTHERWISE SHOWN
- 
 STATION
 100+00.00, (100.00RT)
 LED C A(T) 4 ANS1
 CIRCUIT, SOURCE, POLE
 ARM LENGTH
 POLE TYPE ON T-BASE/ON ANCHOR (A)
 LUMINAIRE CATEGORY
 LUMINAIRE SOURCE
 OFFSET





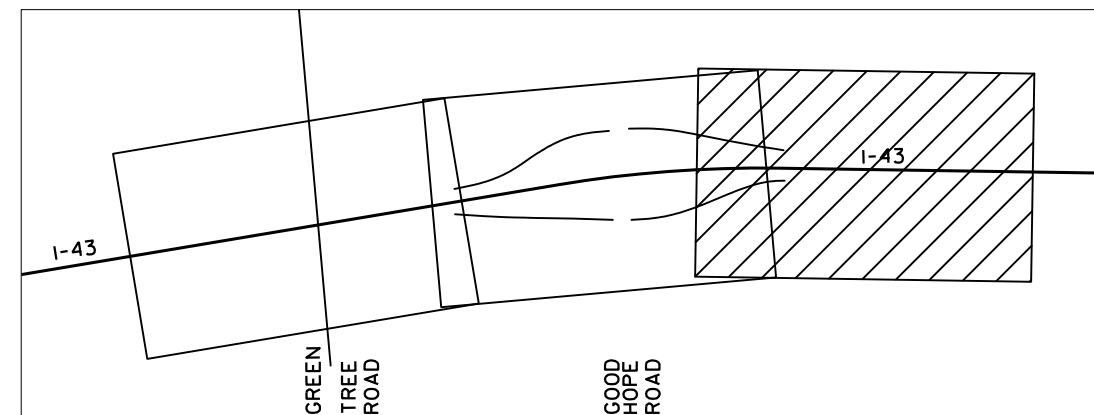
FILE NAME :	W:\PROJECTS\17203.02\05_CADD\CADD SHEETS\023501_LP_MOD_GH 2-22-19.DWG	PLOT DATE :	4/8/2019 4:13 PM	PLOT BY :	WILLIAM NEAVE	PLOT NAME :		PLOT SCALE :	1 IN:100 FT
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SHEET 15 OF 51

LEGEND

- EXISTING SINGLE ARM
FREEWAY LIGHTING UNIT
REMOVE EXISTING HPS LUMINAIRE
AND INSTALL LED LUMINAIRE
- EXISTING TWIN ARM
FREEWAY LIGHTING UNIT
REMOVE EXISTING HPS LUMINAIRE
AND INSTALL LED LUMINAIRE
- CONDUIT - 2" UNLESS OTHERWISE SHOWN
- STATION OFFSET
- 100+00.00, (100.00RT)
- LED C A(T) 4 ANSI
- CIRCUIT, SOURCE, POLE
- ARM LENGTH
- POLE TYPE ON T-BASE/ON ANCHOR (A)
- LUMINAIRE CATEGORY
- LUMINAIRE SOURCE



PROJECT NO: 1000-13-71

HWY: I-43

COUNTY: MILWAUKEE

LIGHTING PLANS - PROPOSED (HL-40-GH)

SHEET

28

E

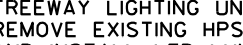
LEGEND

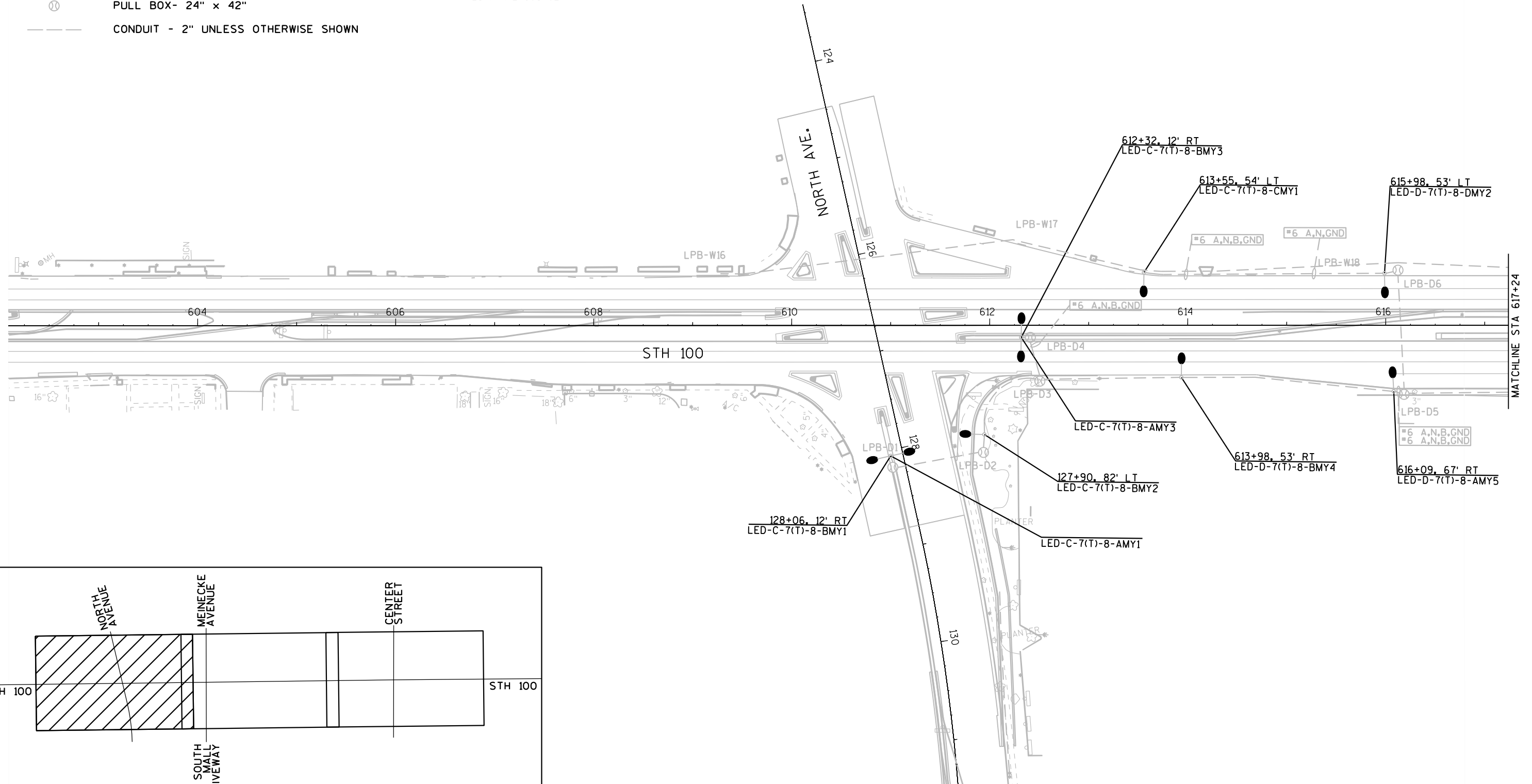
-  EXISTING SINGLE ARM FREEWAY LIGHTING UNIT
 REMOVE EXISTING HPS LUMINAIRE AND INSTALL LED LUMINAIRE

 EXISTING TWIN ARM FREEWAY LIGHTING UNIT
 REMOVE EXISTING HPS LUMINAIRE AND INSTALL LED LUMINAIRE

 PULL BOX- 24" x 42"

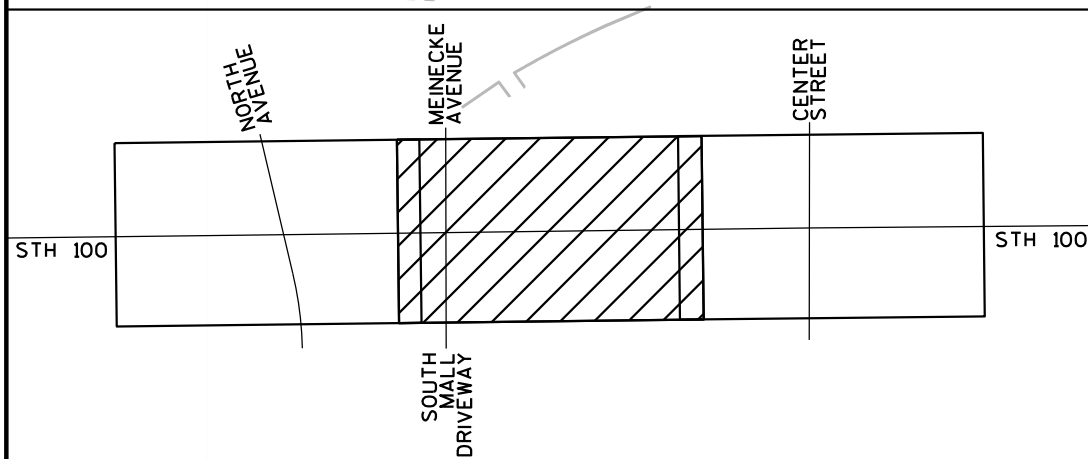
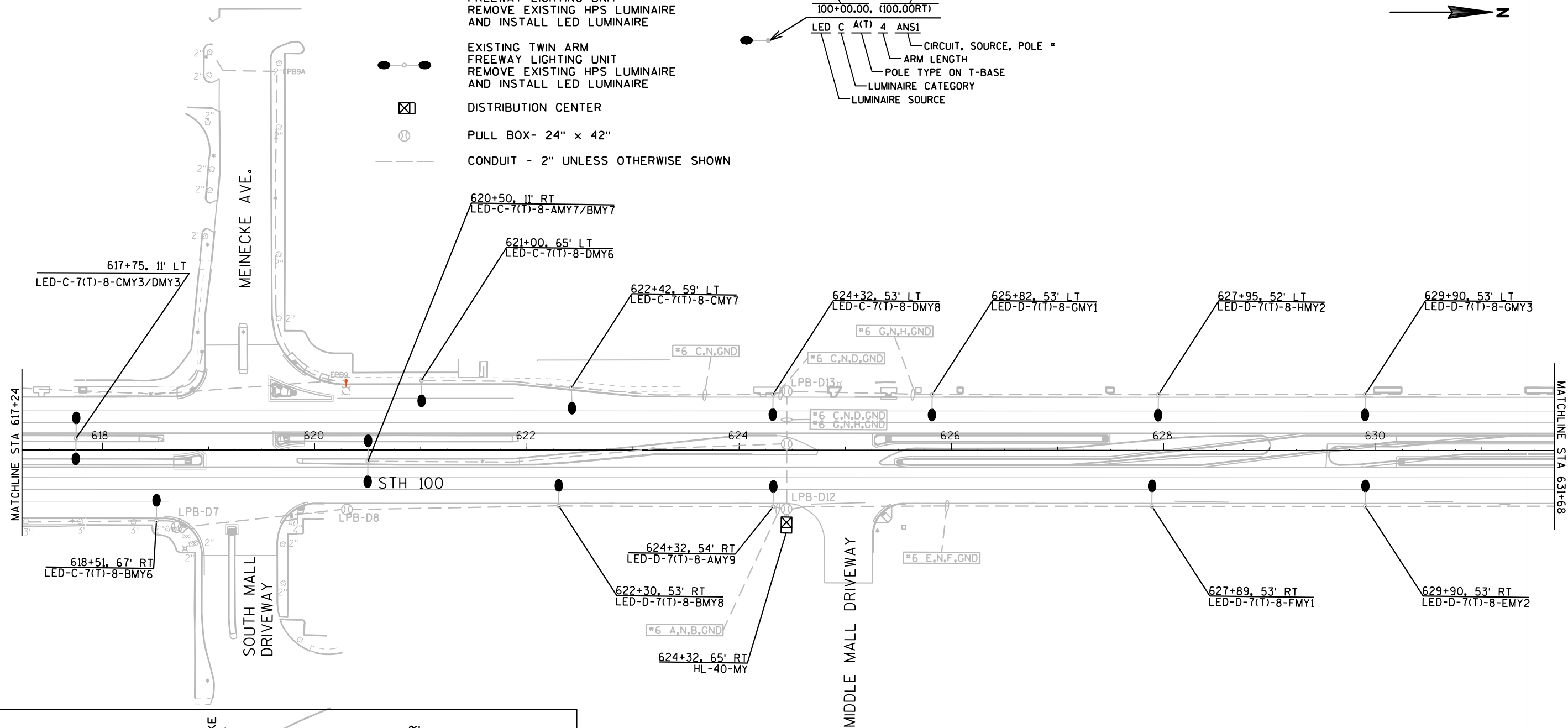
 CONDUIT - 2" UNLESS OTHERWISE SHOWN


 STATION: 100+00.00, (100.00RT)
 OFFSET: (100.00RT)
 LED, C, A(T), 4, ANSI
 CIRCUIT, SOURCE, POLE
 ARM LENGTH
 POLE TYPE ON T-BASE
 LUMINAIRE CATEGORY
 LUMINAIRE SOURCE



LEGEND

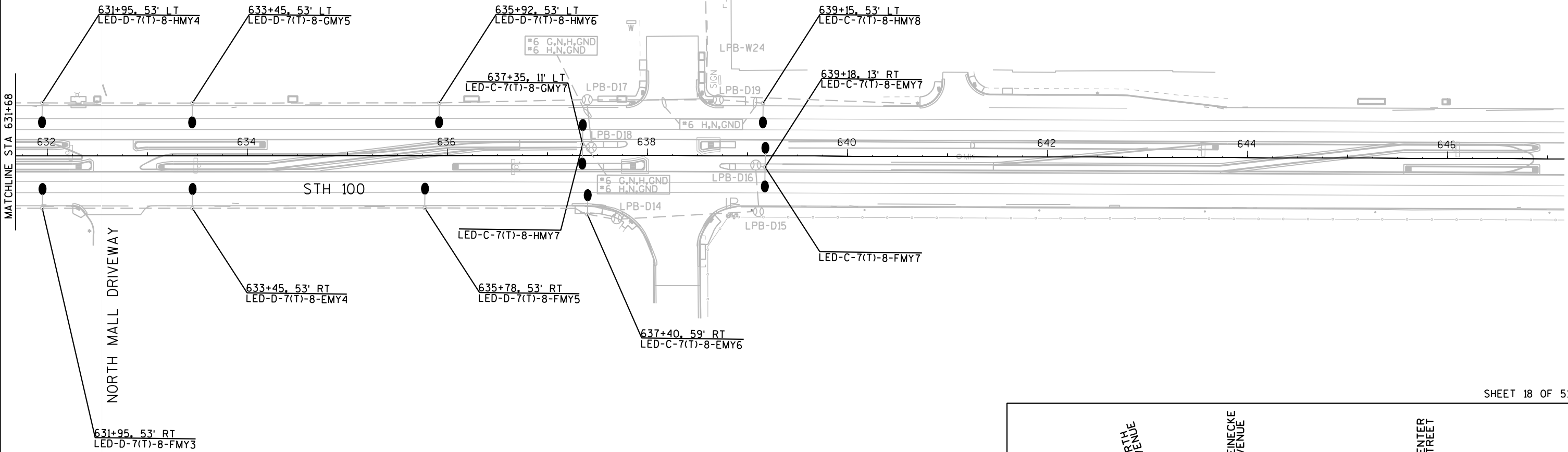
- EXISTING SINGLE ARM FREEWAY LIGHTING UNIT REMOVE EXISTING HPS LUMINAIRE AND INSTALL LED LUMINAIRE
 - EXISTING TWIN ARM FREEWAY LIGHTING UNIT REMOVE EXISTING HPS LUMINAIRE AND INSTALL LED LUMINAIRE
 - ⊠ DISTRIBUTION CENTER
 - ⊙ PULL BOX- 24" x 42"
 - CONDUIT - 2" UNLESS OTHERWISE SHOWN
- STATION OFFSET
- 100+00.00, (100.00RT)
- LED C A(T) 4 ANSI
- CIRCUIT, SOURCE, POLE
- ARM LENGTH
- POLE TYPE ON T-BASE
- LUMINAIRE CATEGORY
- LUMINAIRE SOURCE



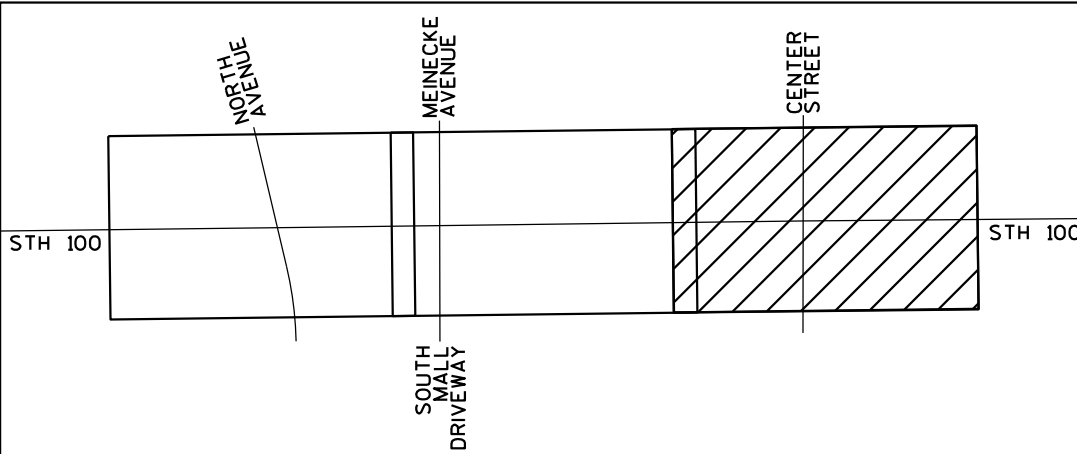
HL-40-MY	
A,C,E,G	RED
B,D,F,H	BLACK
N	WHITE
GND	GREEN
240/480V, 3-WIRE ISOLATED NEUTRAL	

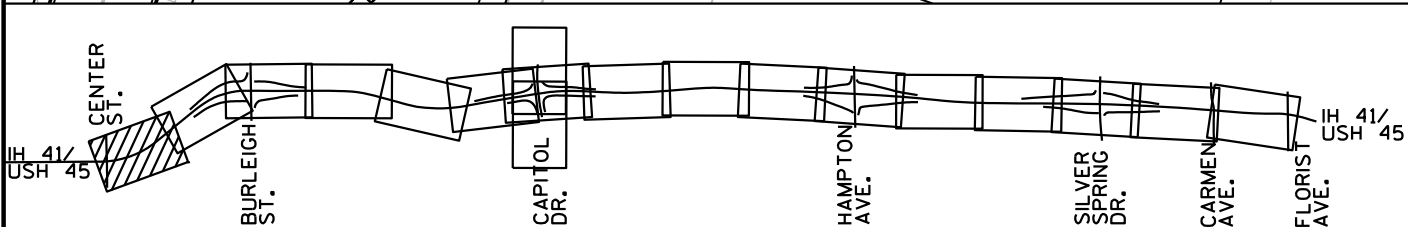
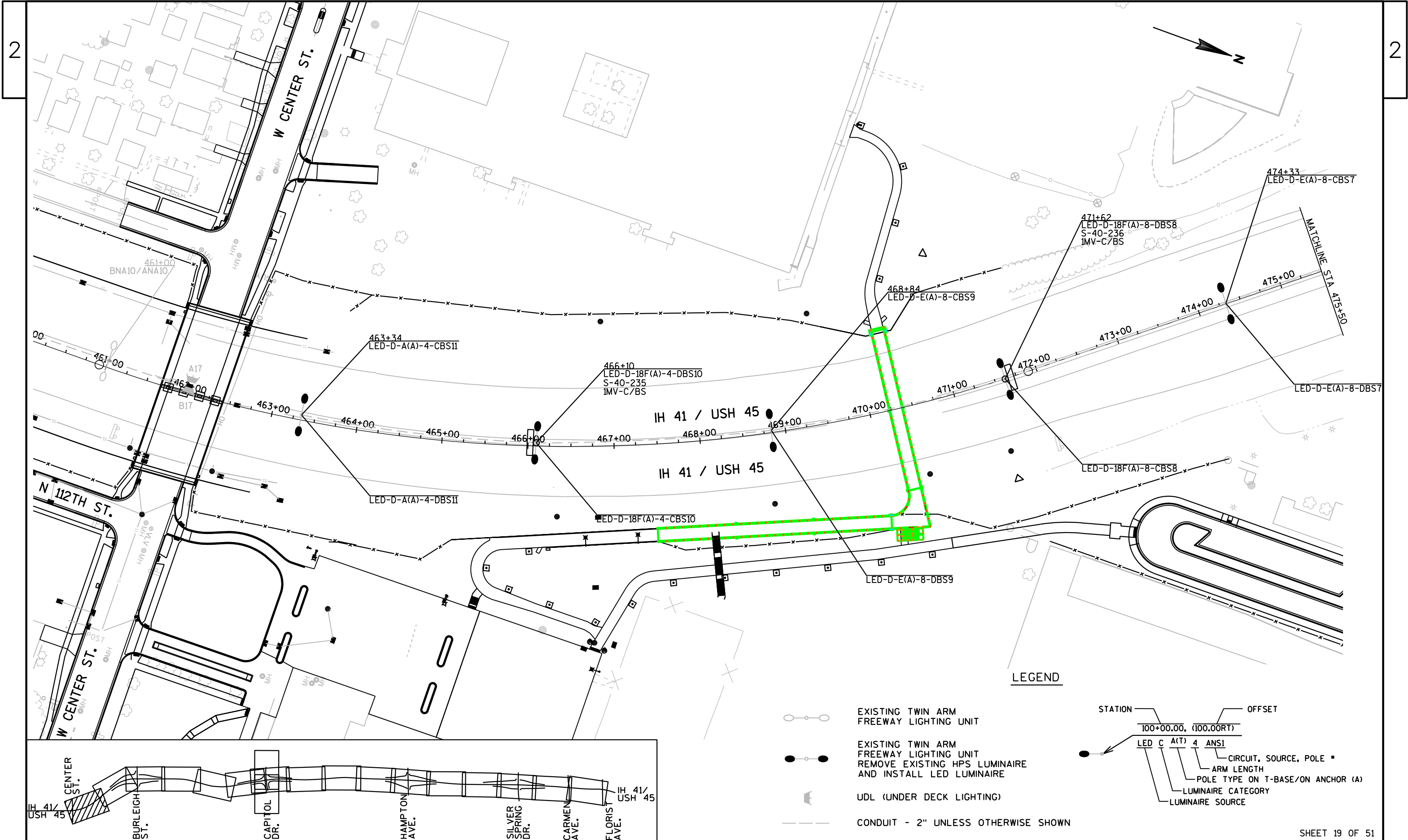
LEGEND

- EXISTING SINGLE ARM
FREEWAY LIGHTING UNIT
REMOVE EXISTING HPS LUMINAIRE
AND INSTALL LED LUMINAIRE
 - EXISTING TWIN ARM
FREEWAY LIGHTING UNIT
REMOVE EXISTING HPS LUMINAIRE
AND INSTALL LED LUMINAIRE
 - PULL BOX- 24" x 42"
 - CONDUIT - 2" UNLESS OTHERWISE SHOWN
- STATION OFFSET
- 100+00.00, (100.00RT)
- LED C A(T) 4 ANSI
- CIRCUIT, SOURCE, POLE
- ARM LENGTH
- POLE TYPE ON T-BASE
- LUMINAIRE CATEGORY
- LUMINAIRE SOURCE



SHEET 18 OF 51





EXISTING TWIN ARM
FREEWAY LIGHTING UNIT

EXISTING TWIN ARM
FREEWAY LIGHTING UNIT
REMOVE EXISTING HPS LUMINAIRE
AND INSTALL LED LUMINAIRE

UDL (UNDER DECK LIGHTING)

CONDUIT - 2" UNLESS OTHERWISE SHOWN

LEGEND

STATION
100+00.00, (100.00RT)

LED C A(T) 4 ANS1

OFFSET

CIRCUIT, SOURCE, POLE

ARM LENGTH

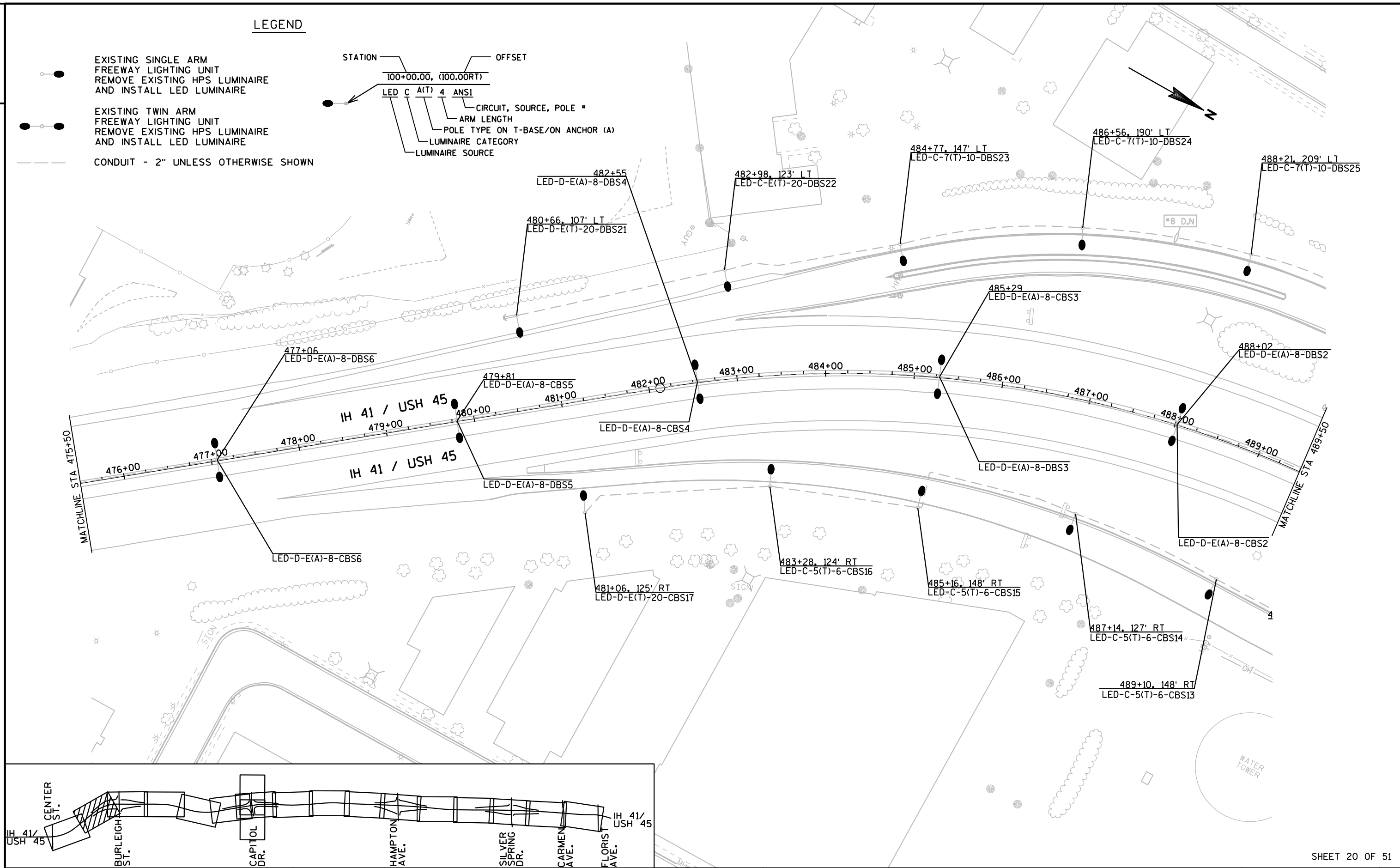
POLE TYPE ON T-BASE/ON ANCHOR (A)

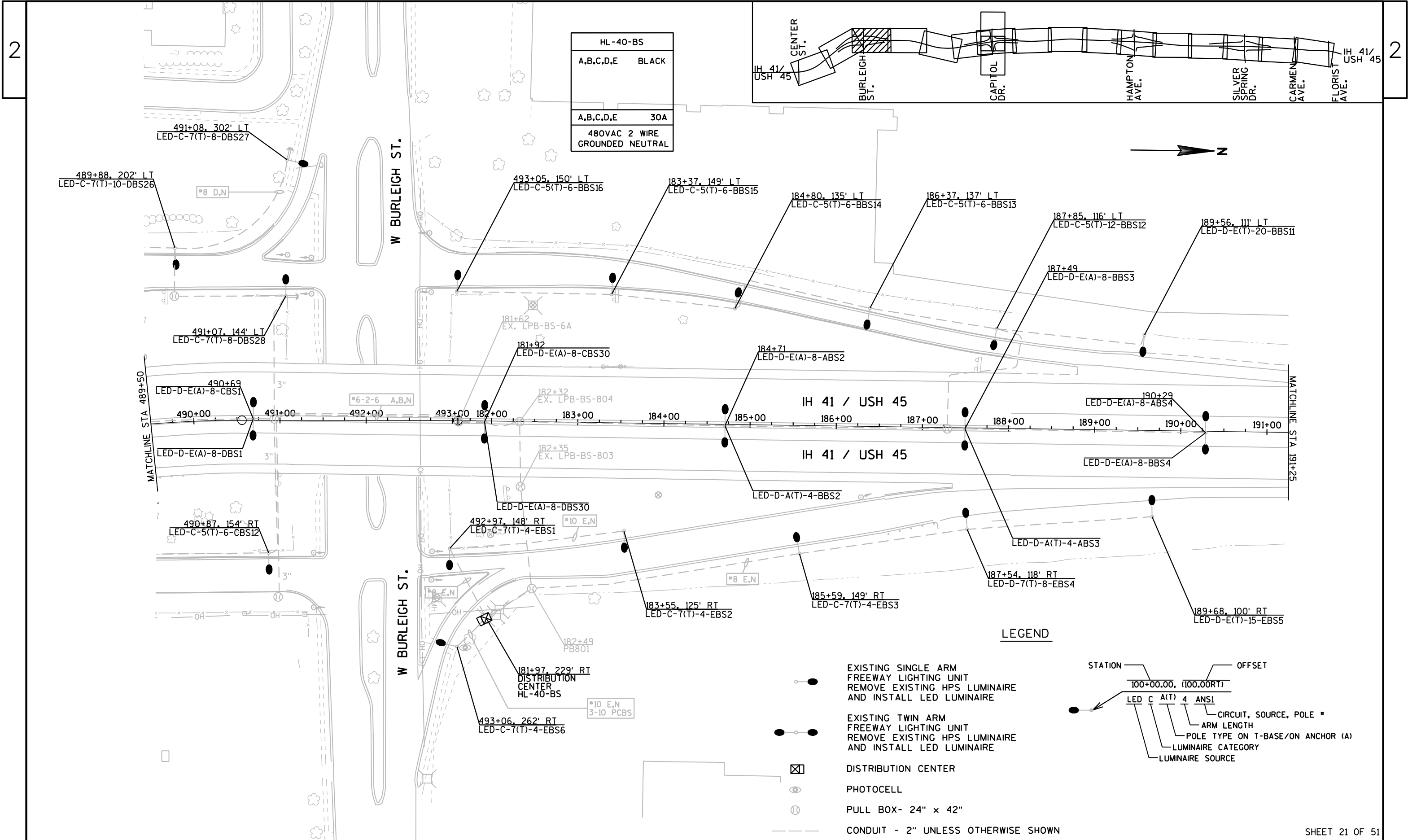
LUMINAIRE CATEGORY

LUMINAIRE SOURCE

LEGEND

-
- EXISTING SINGLE ARM
 FREEWAY LIGHTING UNIT
 REMOVE EXISTING HPS LUMINAIRE
 AND INSTALL LED LUMINAIRE
- EXISTING TWIN ARM
 FREEWAY LIGHTING UNIT
 REMOVE EXISTING HPS LUMINAIRE
 AND INSTALL LED LUMINAIRE
- CONDUIT - 2" UNLESS OTHERWISE SHOWN
- STATION
 100+00.00, (100.00RT)
 LED C A(T) 4 ANSI
 CIRCUIT, SOURCE, POLE
 ARM LENGTH
 POLE TYPE ON T-BASE/ON ANCHOR (A)
 LUMINAIRE CATEGORY
 LUMINAIRE SOURCE
 OFFSET





LEGEND

- 

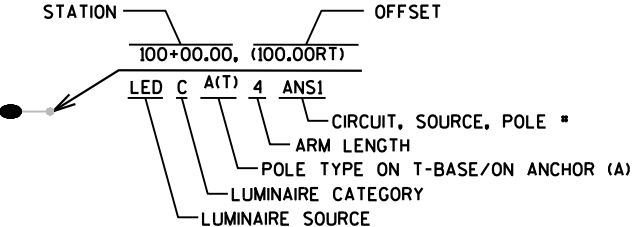
EXISTING TWIN ARM
FREEWAY LIGHTING UNIT
REMOVE EXISTING HPS LUMINAIRE
AND INSTALL LED LUMINAIRE
- 

ELECTRIC METER SOCKET
- 

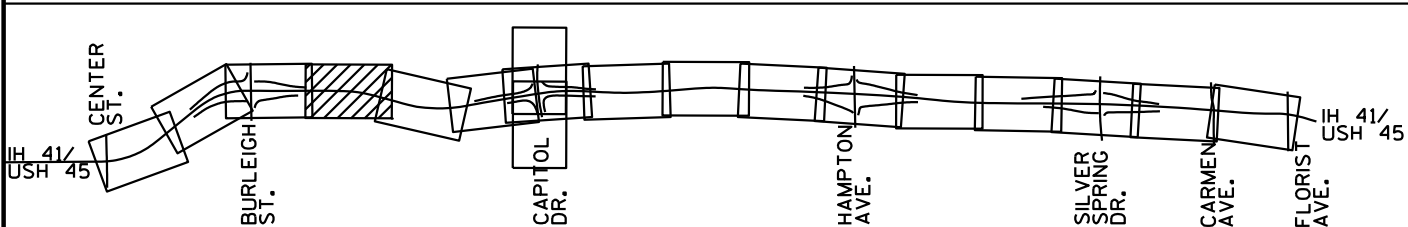
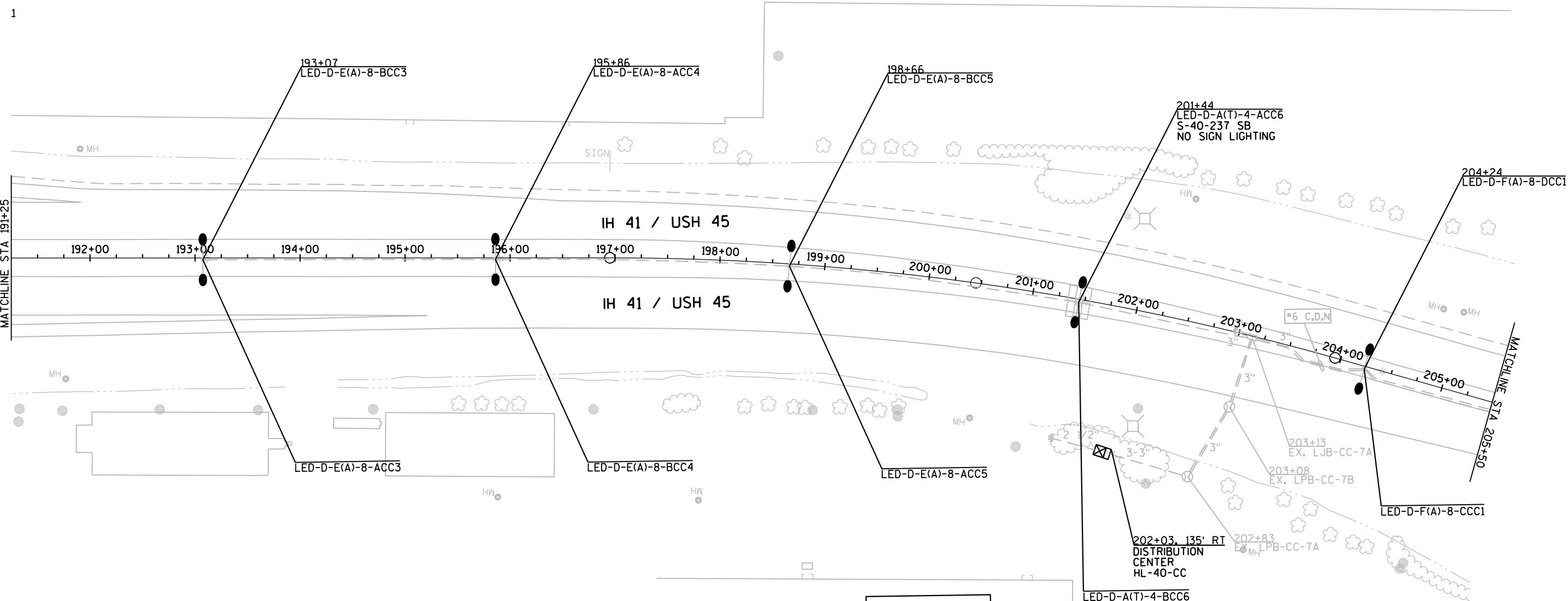
DISTRIBUTION CENTER
- 

JUNCTION BOX
- 

PULL BOX- 24" x 42"
- 

CONDUIT - 2" UNLESS OTHERWISE SHOWN
- 

STATION
100+00.00, (100.00RT)
LED C A(T) 4 ANSI
CIRCUIT, SOURCE, POLE *
ARM LENGTH
POLE TYPE ON T-BASE/ON ANCHOR (A)
LUMINAIRE CATEGORY
LUMINAIRE SOURCE



HL-40-CC	
A,C,	RED
B,D	BLACK
N	WHITE
GND	GREEN OR BARE
A,B,C,D	30A
120/240VAC 3 WIRE GROUNDED NEUTRAL	

PROJECT NO: 1000-13-71

HWY: IH 41/USH 45

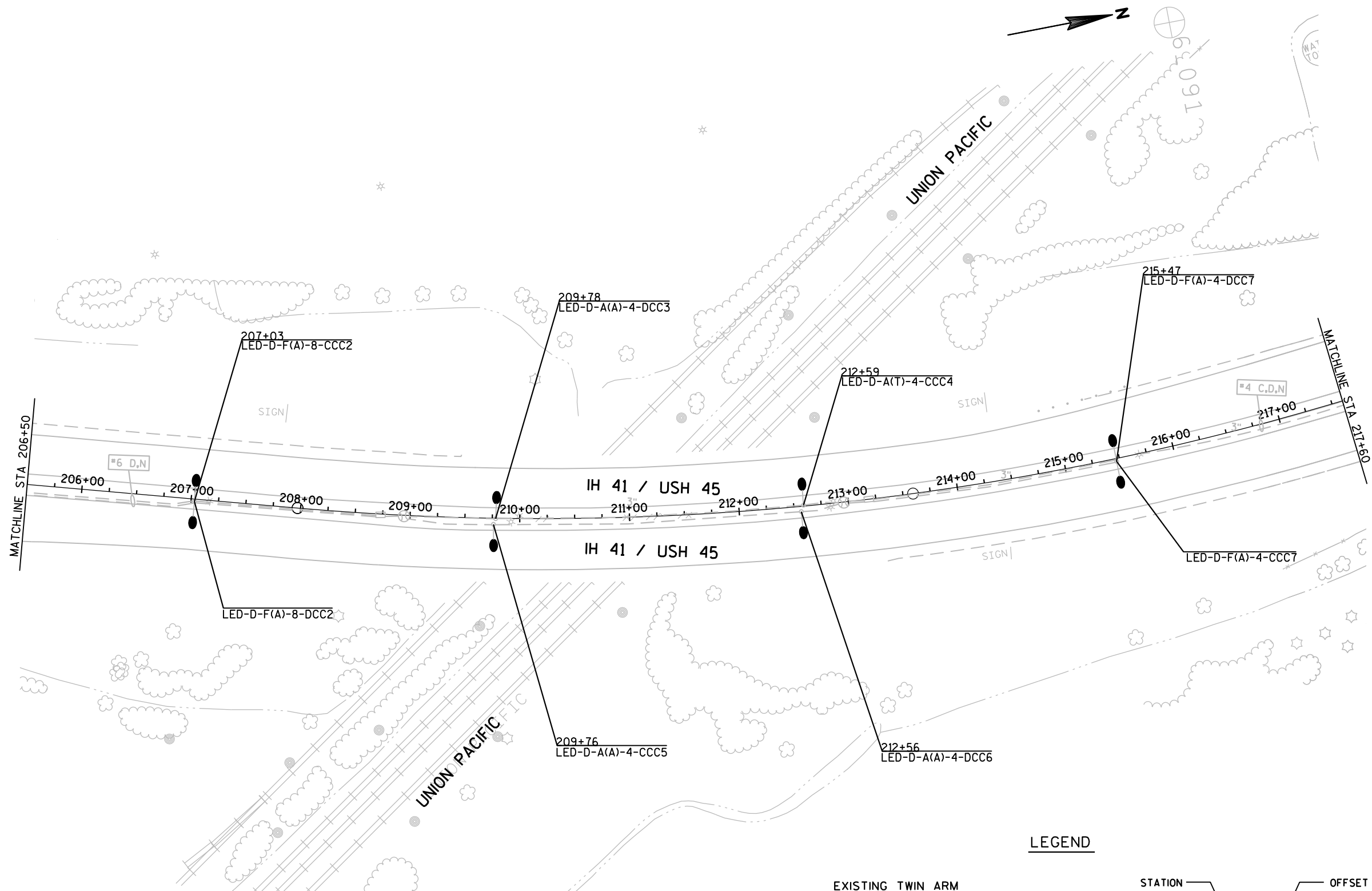
COUNTY: MILWAUKEE

LIGHTING PLANS - PROPOSED (HL-40-CC)

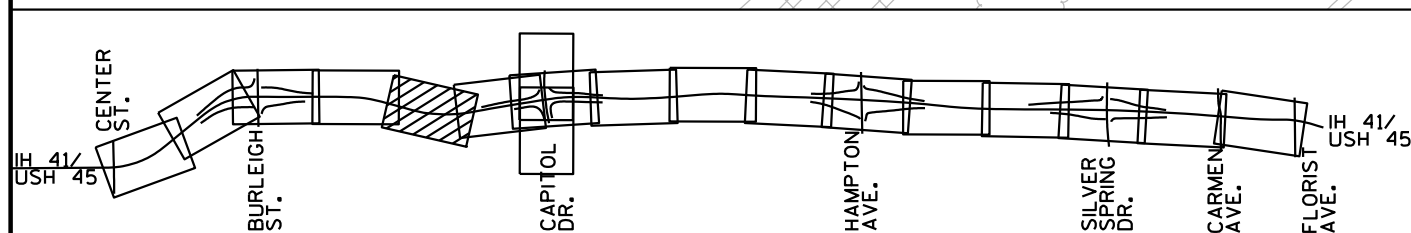
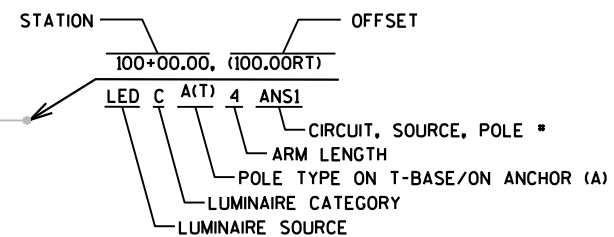
SHEET

35

E

**LEGEND**

- EXISTING TWIN ARM
FREEWAY LIGHTING UNIT
REMOVE EXISTING HPS LUMINAIRE
AND INSTALL LED LUMINAIRE
- JUNCTION BOX
- ⊙ PULL BOX- 24" x 42"
- CONDUIT - 2" UNLESS OTHERWISE SHOWN



PROJECT NO: 1000-13-71

HWY: IH 41/USH 45

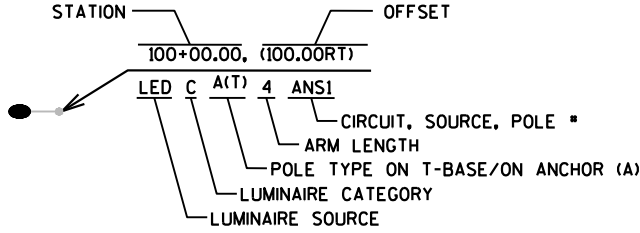
COUNTY: MILWAUKEE

LIGHTING PLANS - PROPOSED (HL-40-CC)

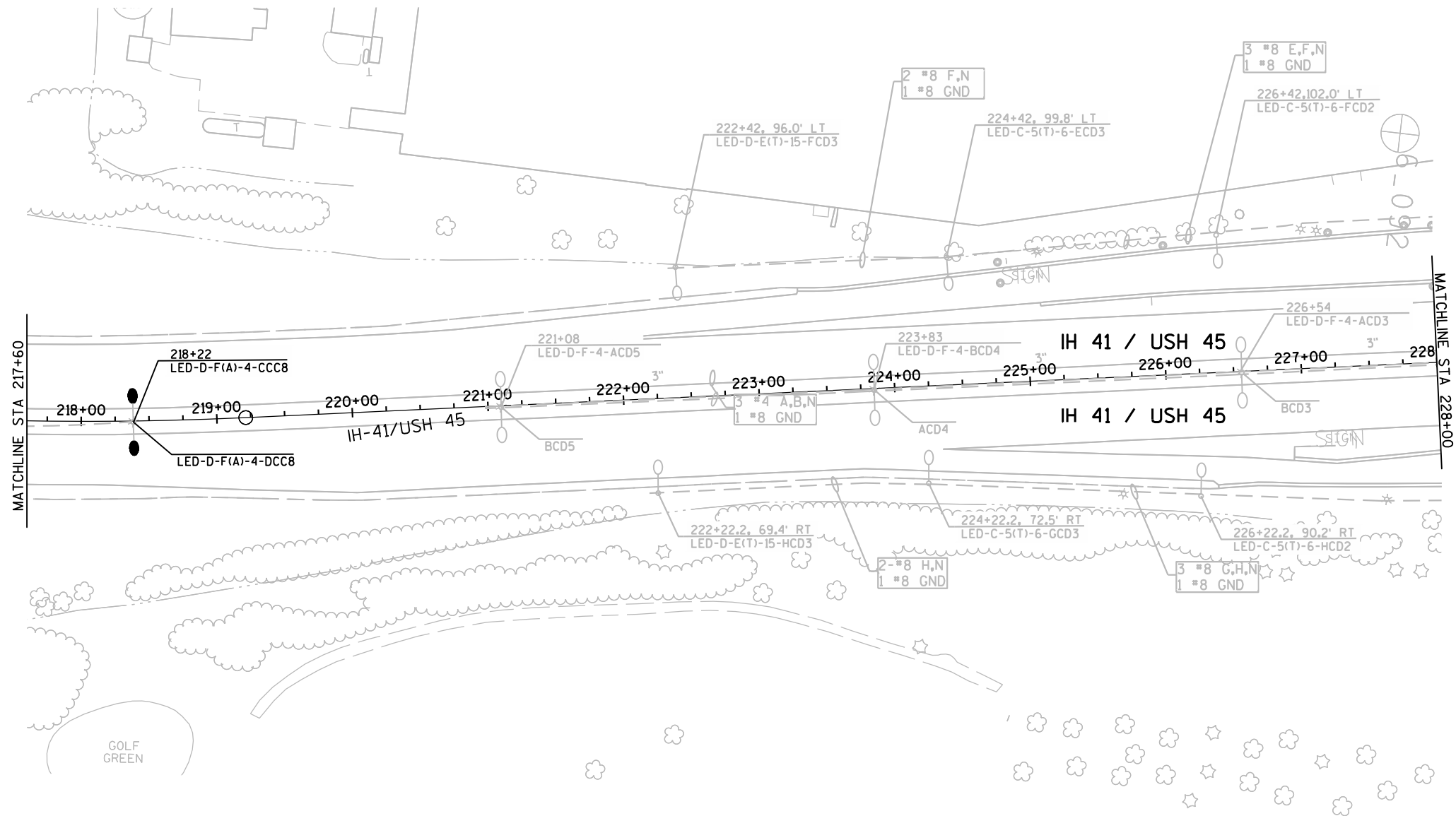
SHEET

36

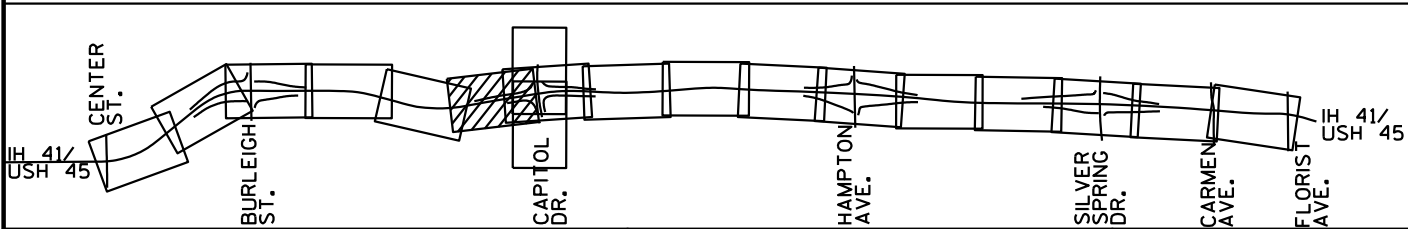
E

-  EXISTING SINGLE ARM
FREEWAY LIGHTING UNIT
-  EXISTING TWIN ARM
FREEWAY LIGHTING UNIT
-  EXISTING TWIN ARM
FREEWAY LIGHTING UNIT
REMOVE EXISTING HPS LUMINAIRE
AND INSTALL LED LUMINAIRE
-  CONDUIT - 2" UNLESS OTHERWISE SHOWN
- 

STATION
100+00.00, (100.00RT)
LED C A(T) 4 ANSI
CIRCUIT, SOURCE, POLE
ARM LENGTH
POLE TYPE ON T-BASE/ON ANCHOR (A)
LUMINAIRE CATEGORY
LUMINAIRE SOURCE



NOTE:
LIGHTING PLAN FOR IH 41/USH 45.
SEE SHEETS 27 & 28 FOR CAPITOL DRIVE LIGHTING.

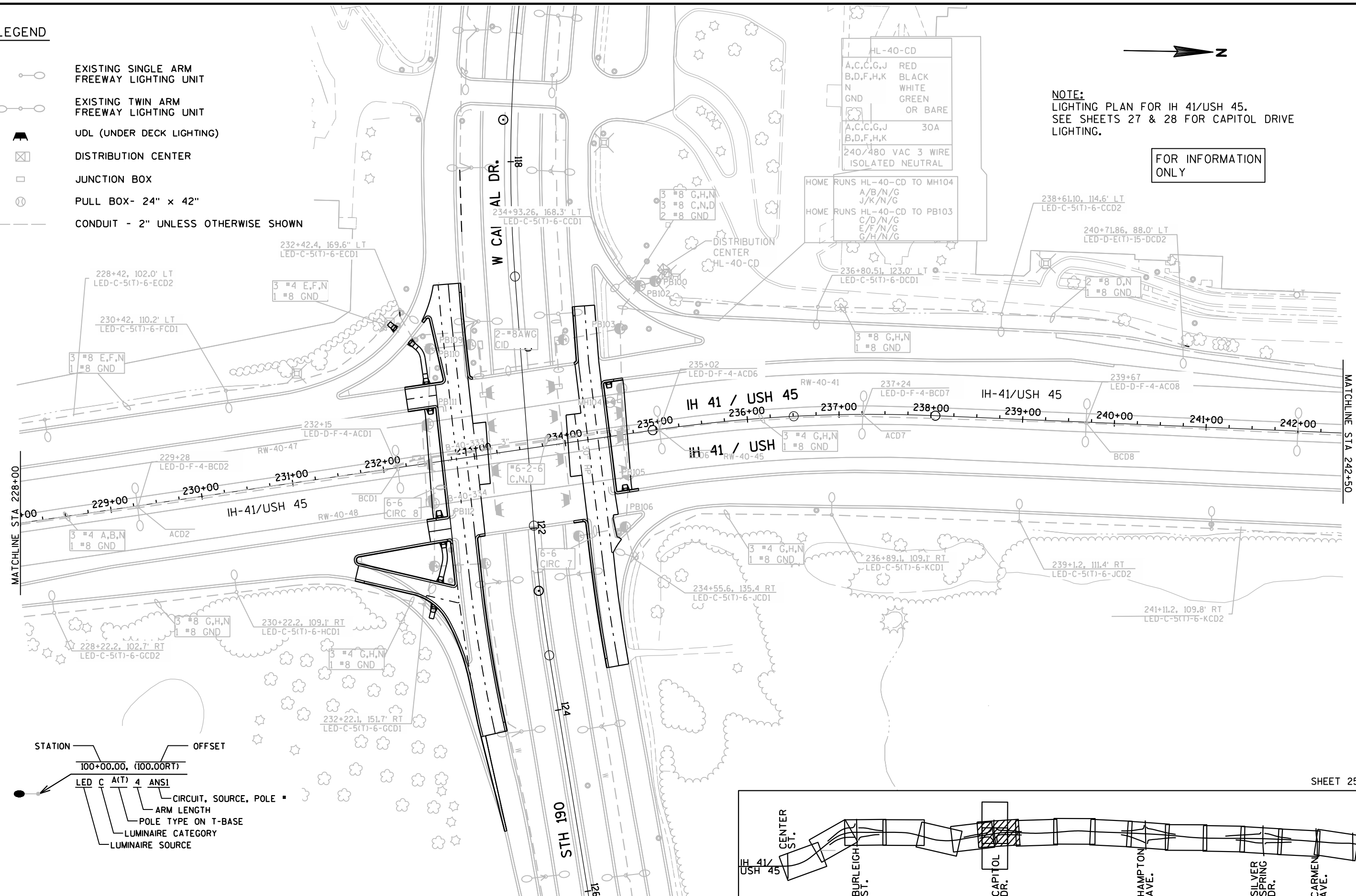


LEGEND

- EXISTING SINGLE ARM FREEWAY LIGHTING UNIT
- EXISTING TWIN ARM FREEWAY LIGHTING UNIT
- UDL (UNDER DECK LIGHTING)
- DISTRIBUTION CENTER
- JUNCTION BOX
- PULL BOX- 24" x 42"
- CONDUIT - 2" UNLESS OTHERWISE SHOWN

NOTE:
LIGHTING PLAN FOR IH 41/USH 45.
SEE SHEETS 27 & 28 FOR CAPITOL DRIVE LIGHTING.

FOR INFORMATION ONLY



SHEET 25 OF 51

PROJECT NO: 1000-13-71

HWY: IH 41/USH 45

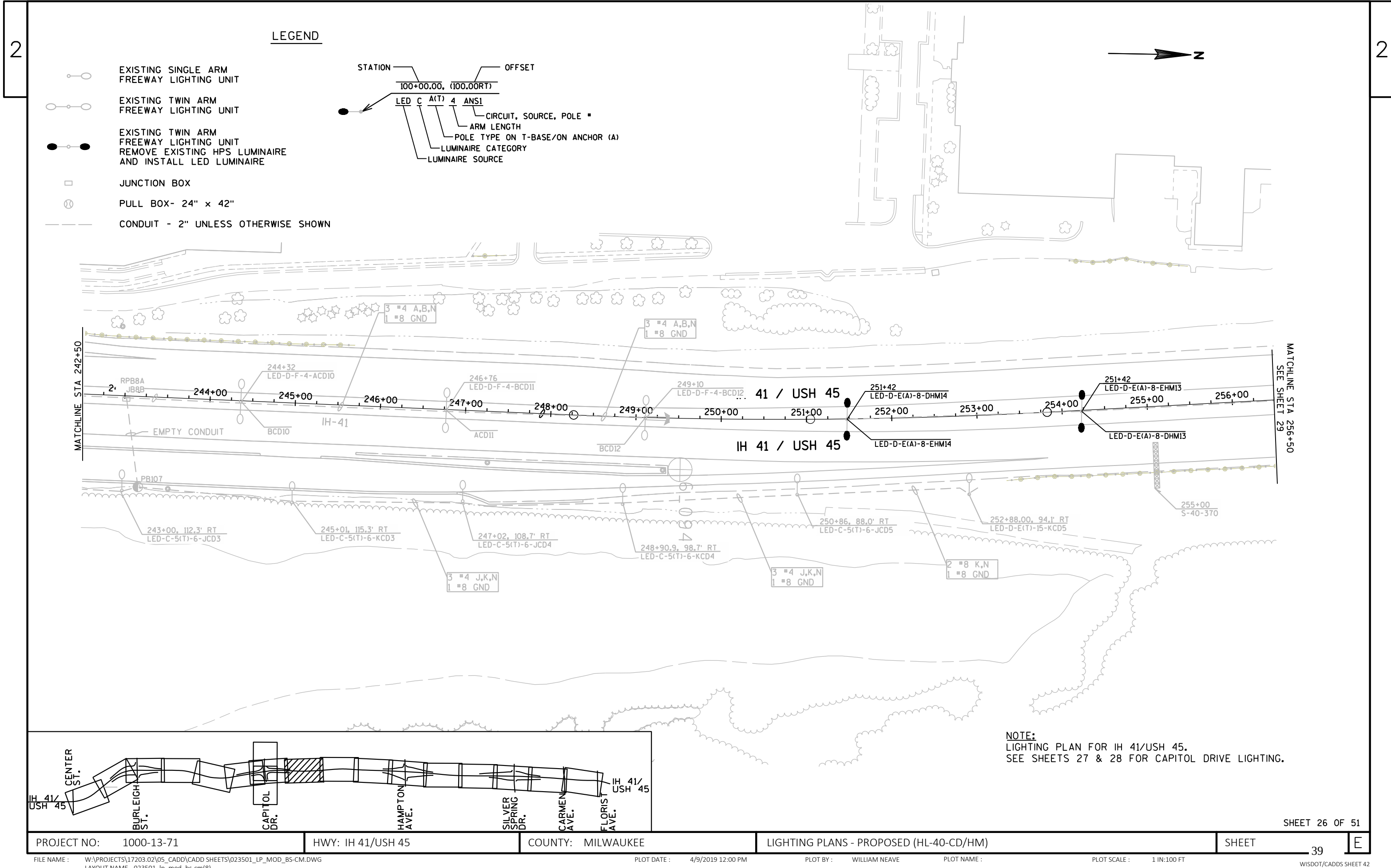
COUNTY: MILWAUKEE

LIGHTING PLANS - PROPOSED (HL-40-CD)

SHEET

38

E



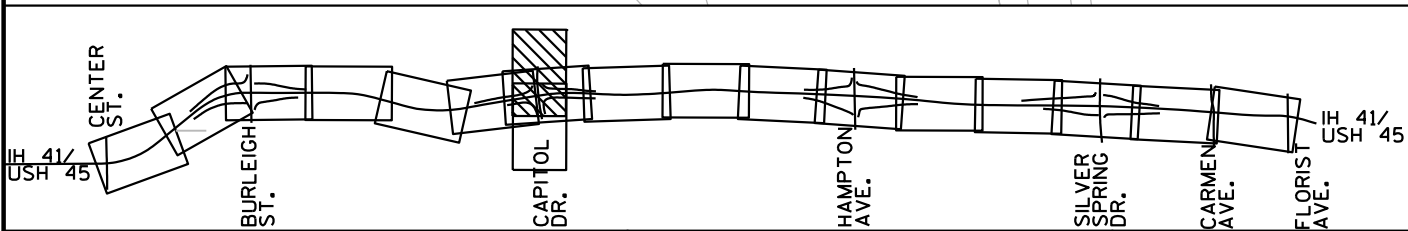
LEGEND

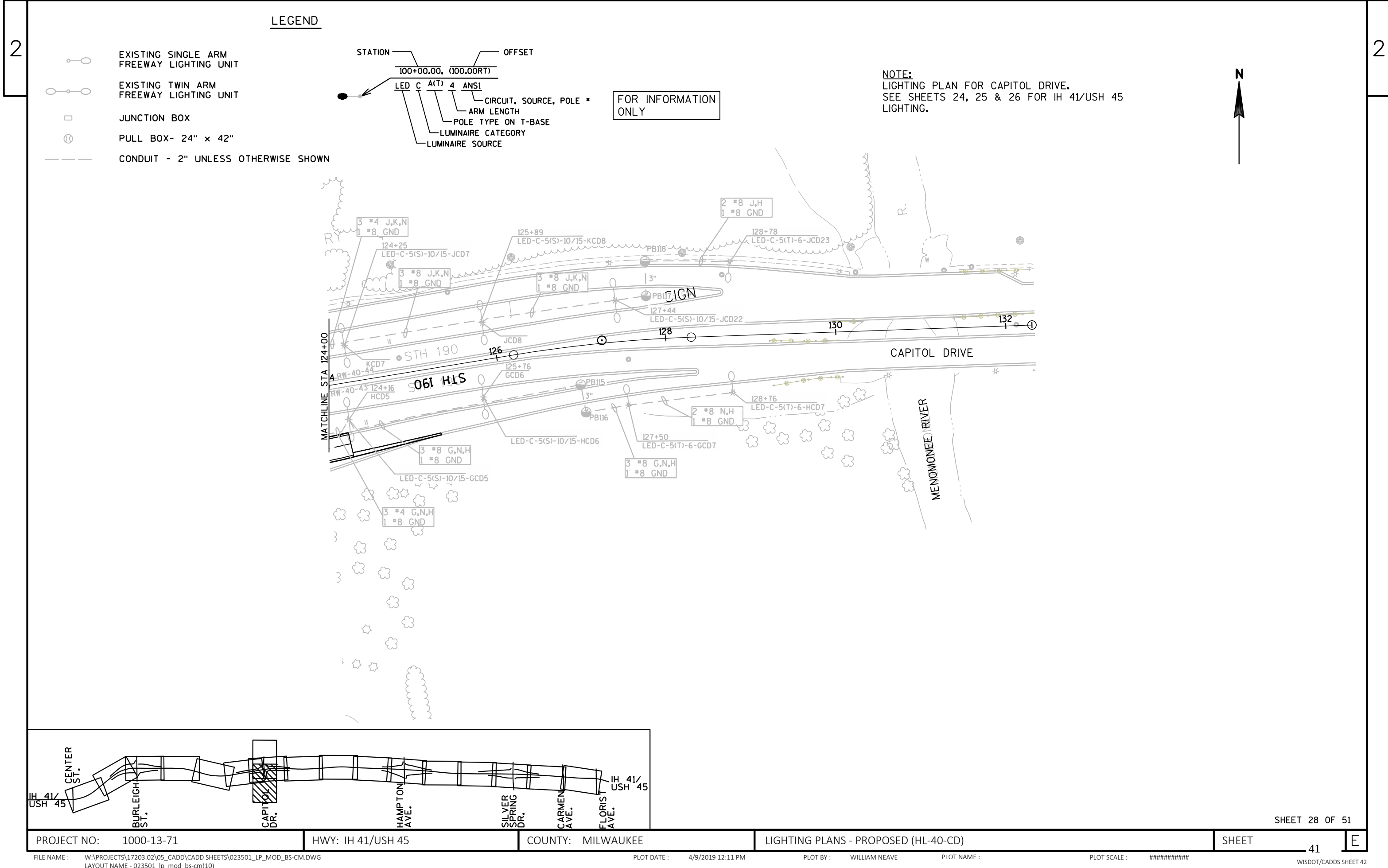
- EXISTING SINGLE ARM FREEWAY LIGHTING UNIT
- EXISTING TWIN ARM FREEWAY LIGHTING UNIT
- EXISTING UDL (UNDER DECK LIGHTING)
- DISTRIBUTION CENTER
- JUNCTION BOX
- PULL BOX- 24" x 42"
- CONDUIT - 2" UNLESS OTHERWISE SHOWN

NOTE:
LIGHTING PLAN FOR CAPITOL DRIVE.
SEE SHEETS 24, 25 & 26 FOR IH 41/USH 45 LIGHTING.

CAPITOL DRIVE

FOR INFORMATION ONLY





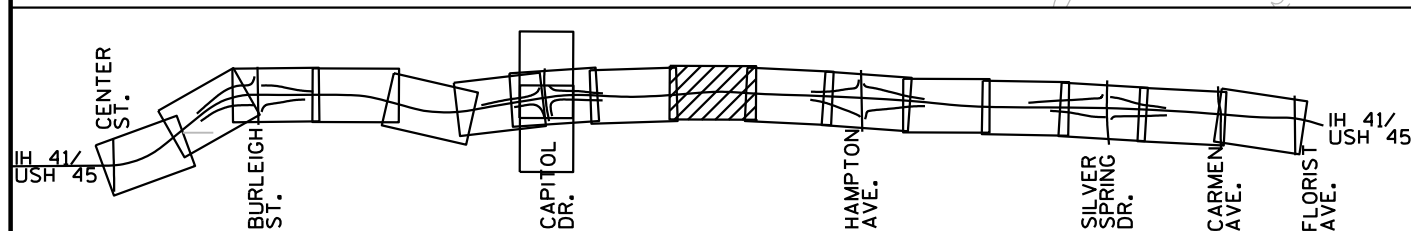
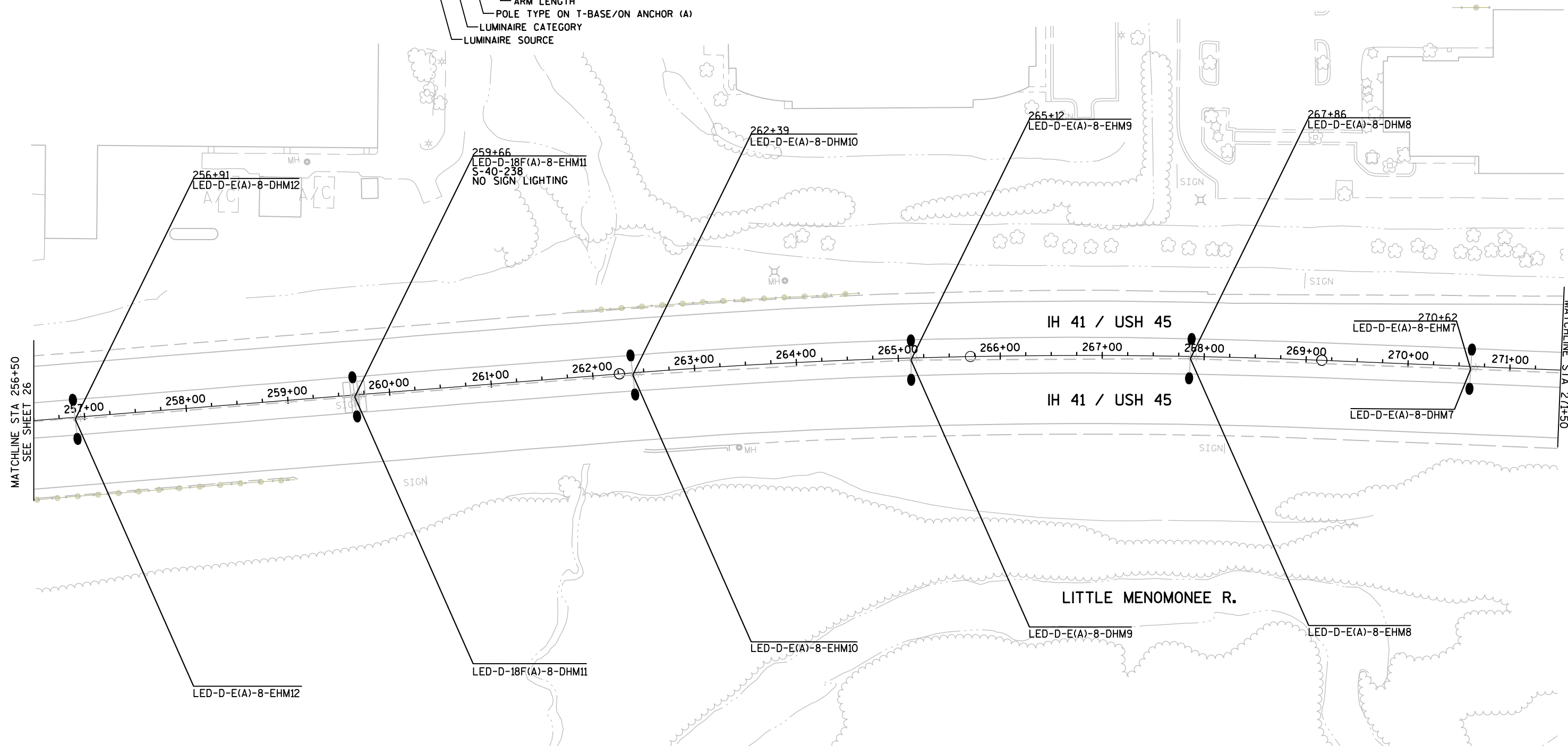
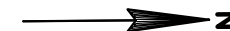
LEGEND



EXISTING TWIN ARM
FREEWAY LIGHTING UNIT
REMOVE EXISTING HPS LUMINAIRE
AND INSTALL LED LUMINAIRE

CONDUIT - 2" UNLESS OTHERWISE SHOWN

STATION
100+00.00, (100.00RT)
LED C A(T) 4 ANSI
CIRCUIT, SOURCE, POLE *
ARM LENGTH
POLE TYPE ON T-BASE/ON ANCHOR (A)
LUMINAIRE CATEGORY
LUMINAIRE SOURCE



PROJECT NO: 1000-13-71

HWY: IH 41/USH 45

COUNTY: MILWAUKEE

LIGHTING PLANS - PROPOSED (HL-40-HM)

SHEET

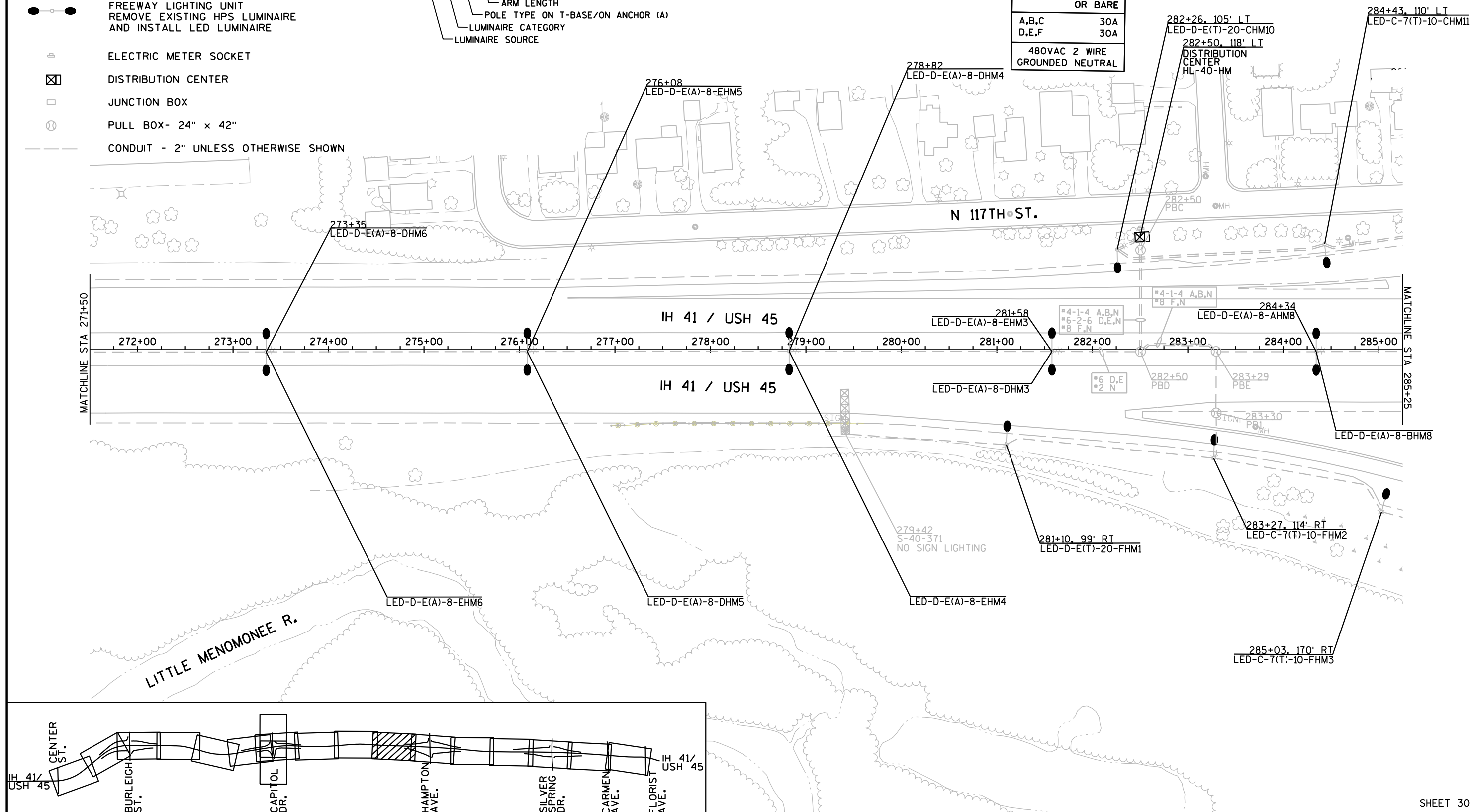
42

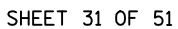
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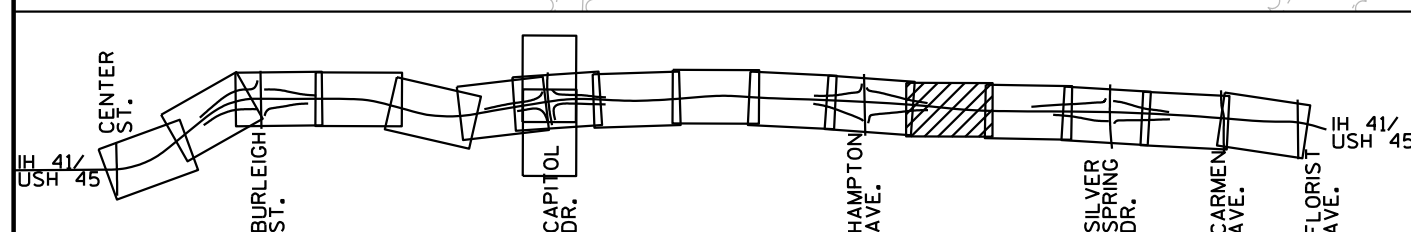
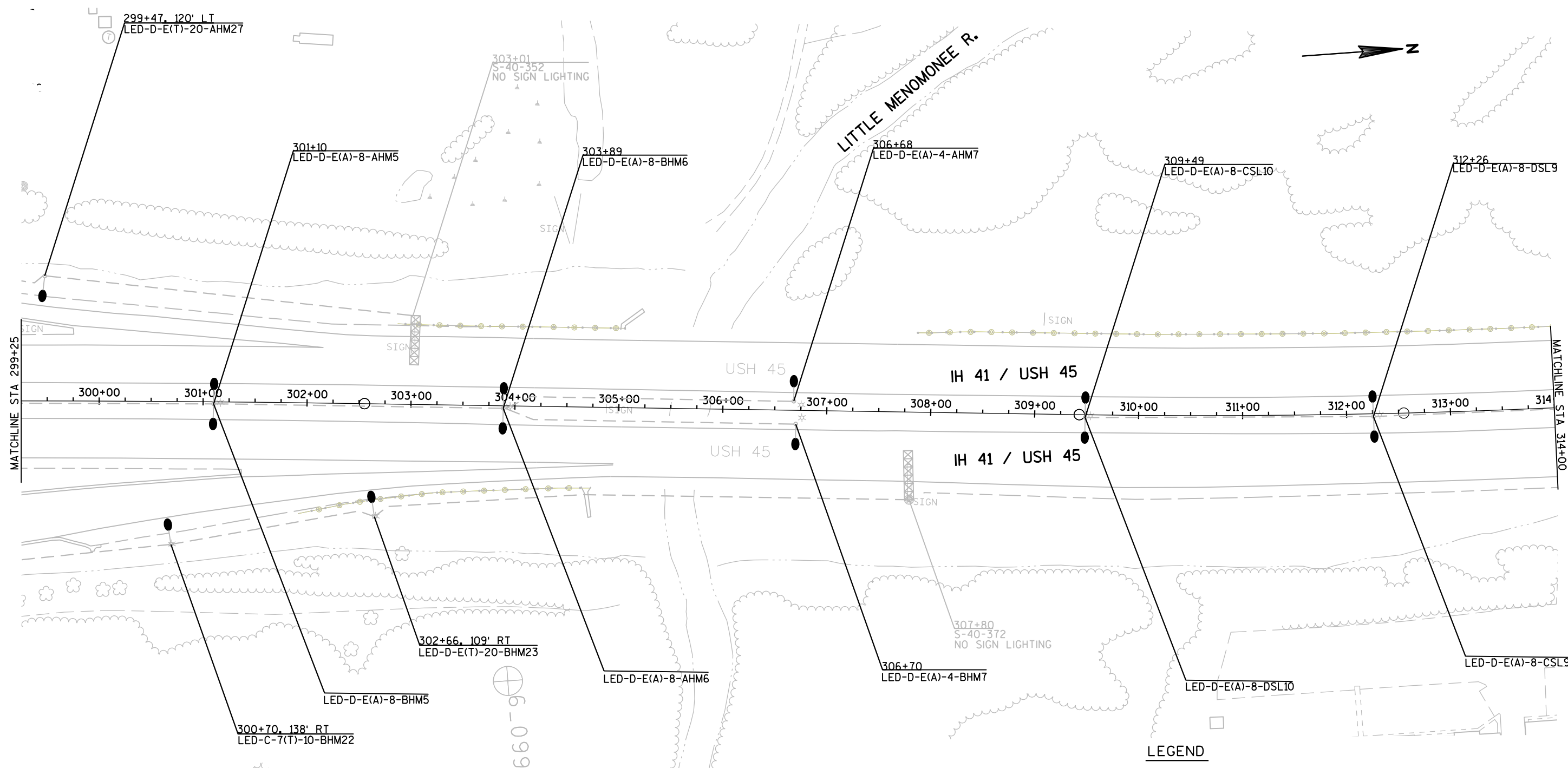
→ **z**

-
- STATION ——— OFFSET
- 100+00.00. (100.000T)
- LED C A(T) 4 ANS1
- CIRCUIT, SOURCE, POLE
- ARM LENGTH
- POLE TYPE ON T-BASE/ON ANCHOR (A)
- LUMINAIRE CATEGORY
- LUMINAIRE SOURCE

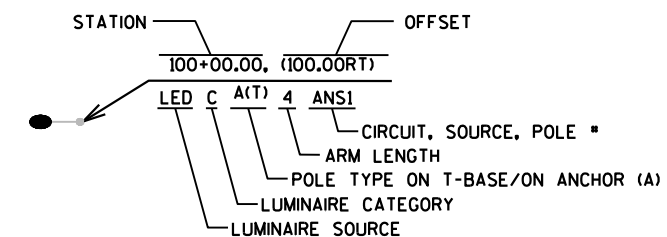
HL-40-HM	
A,C,E	BLACK
B,D,F	BLACK
N	WHITE
GND	GREEN
	OR BARE
A,B,C	30A
D,E,F	30A
480VAC 2 WIRE GROUNDED NEUTRAL	







- EXISTING SINGLE ARM
FREEWAY LIGHTING UNIT
REMOVE EXISTING HPS LUMINAIRE
AND INSTALL LED LUMINAIRE
- EXISTING TWIN ARM
FREEWAY LIGHTING UNIT
REMOVE EXISTING HPS LUMINAIRE
AND INSTALL LED LUMINAIRE
- CONDUIT - 2" UNLESS OTHERWISE SHOWN



SHEET 32 OF 51

PROJECT NO: 1000-13-71

HWY: IH 41/USH 45

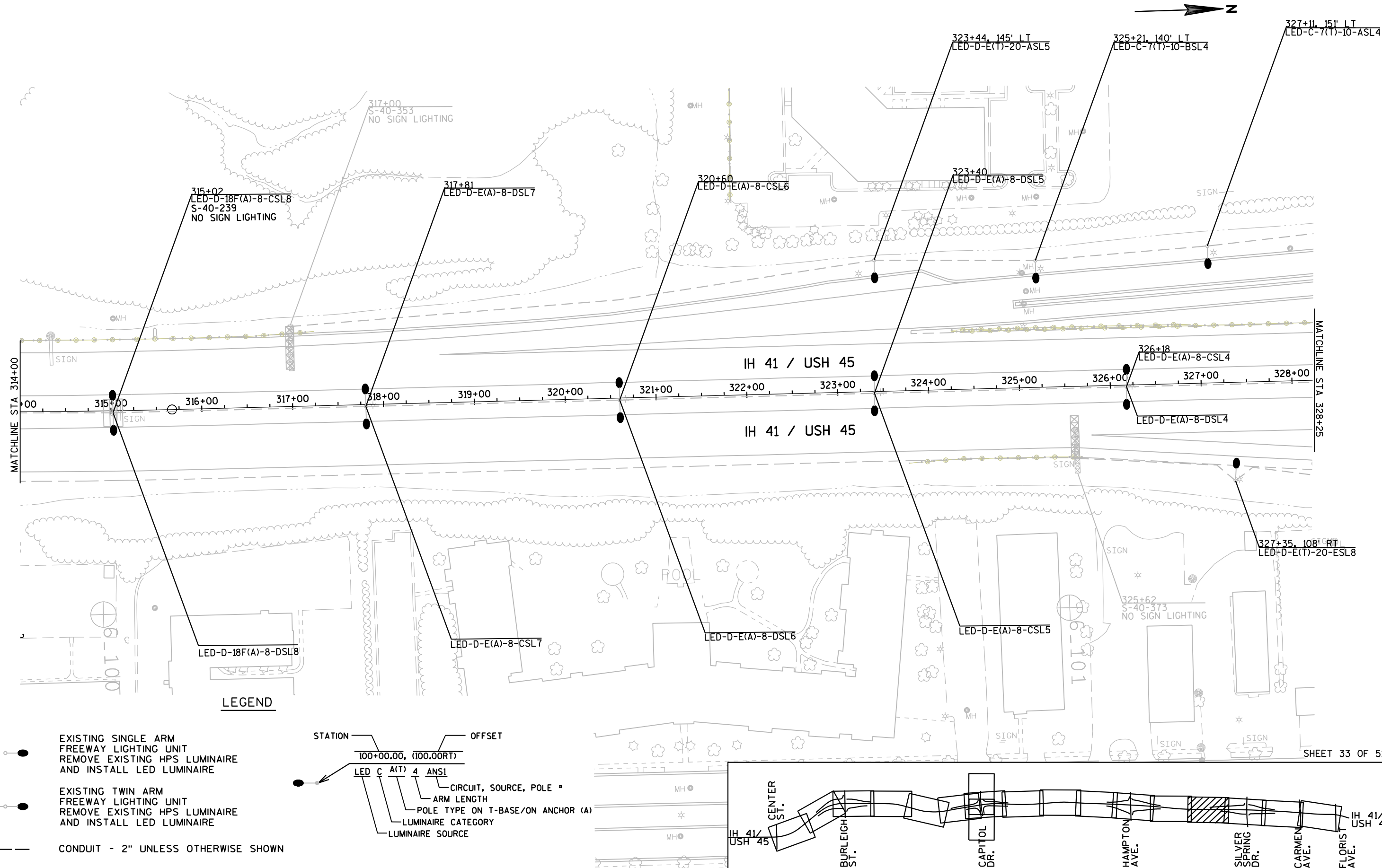
COUNTY: MILWAUKEE

LIGHTING PLANS - PROPOSED (HL-40-HM/SL)

SHEET

45

E



PROJECT NO: 1000-13-71

HWY: IH 41/USH 45

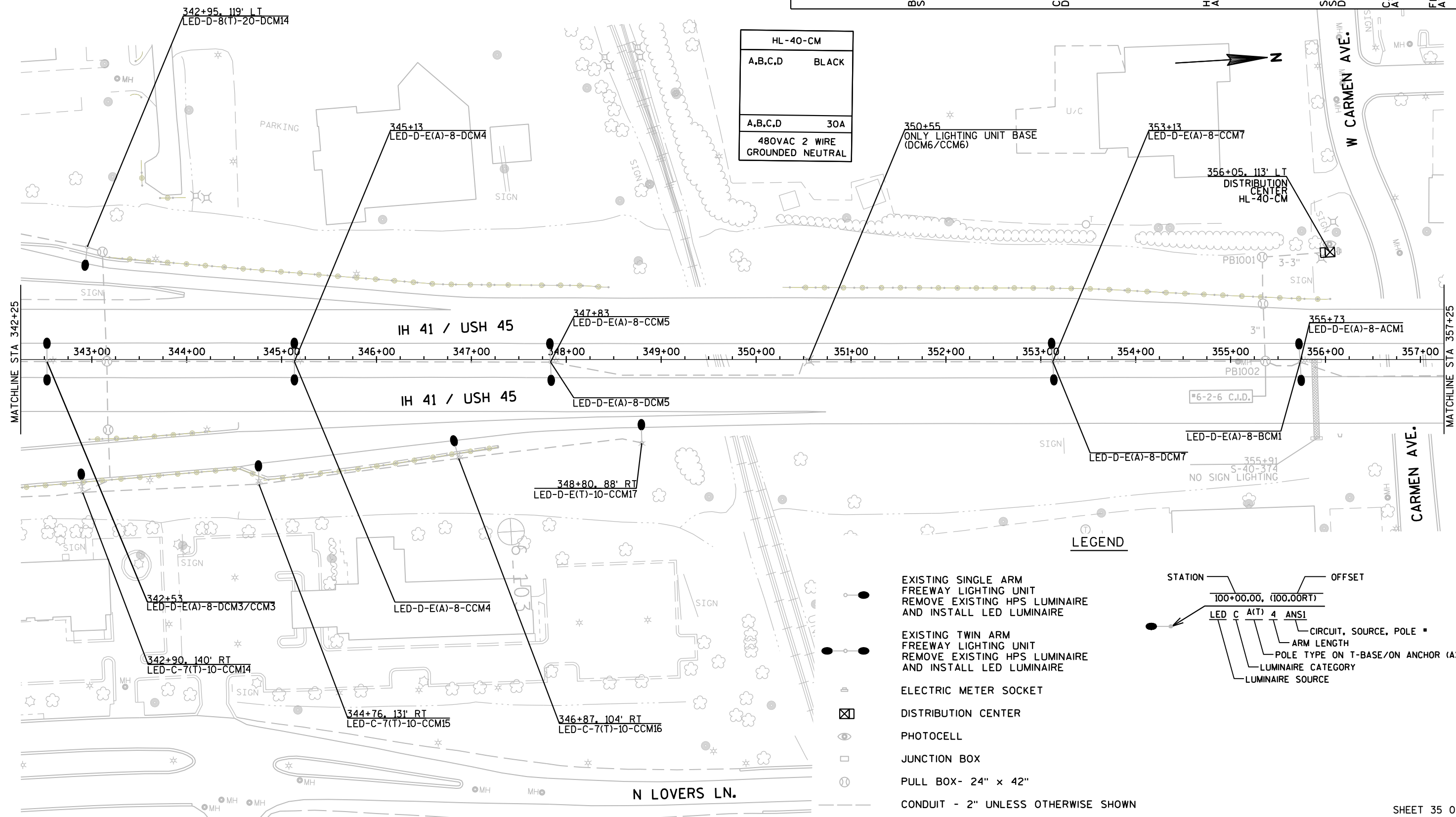
COUNTY: MILWAUKEE

LIGHTING PLANS - PROPOSED (HL-40-SL)

SHEET

46

E

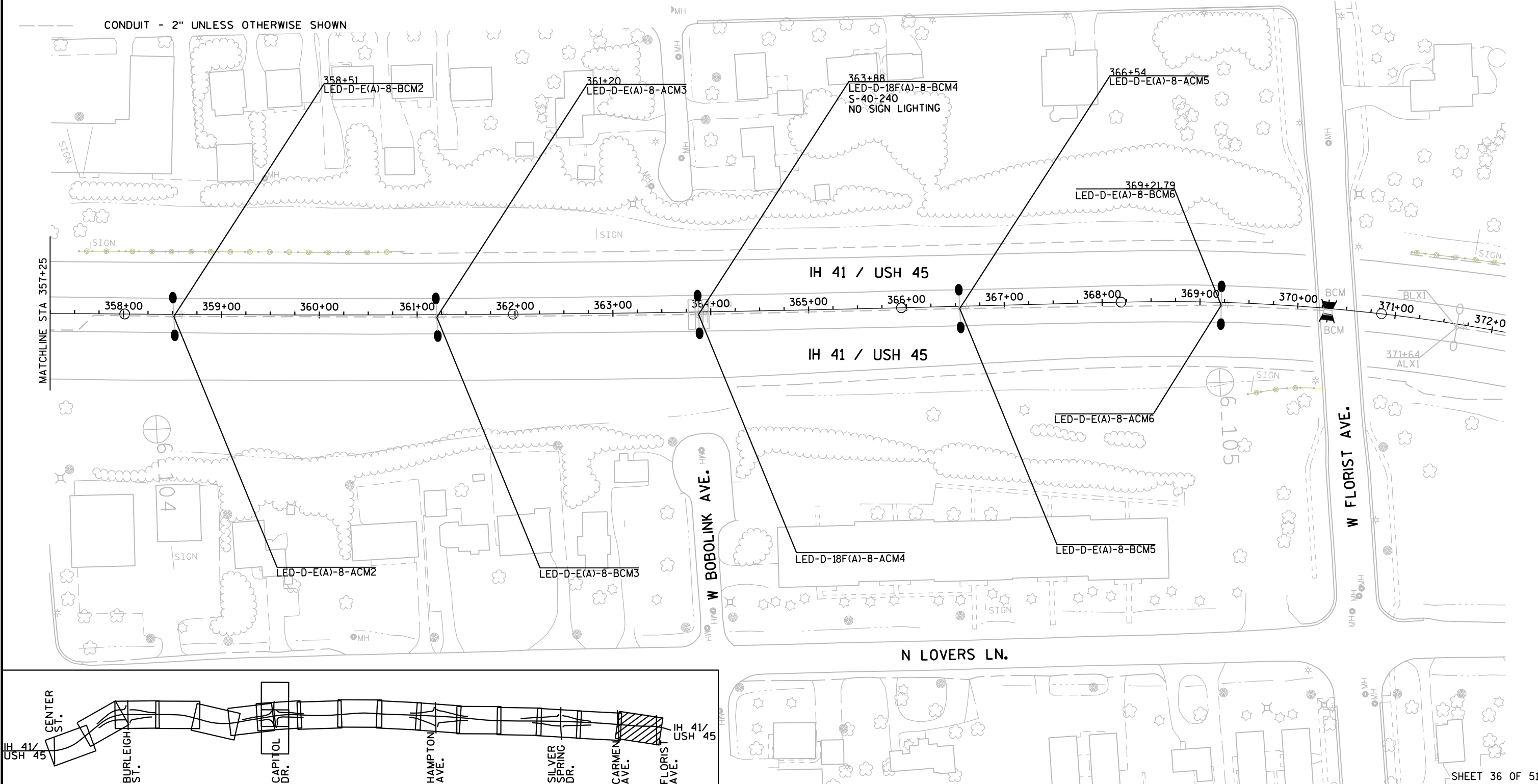


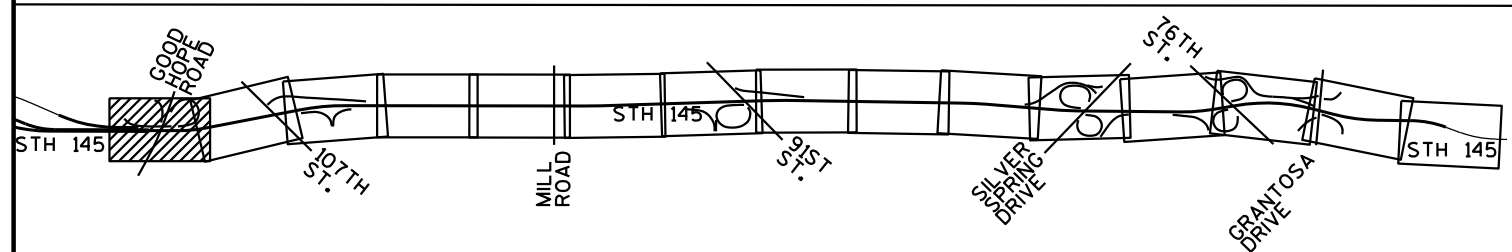
LEGEND

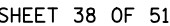
- EXISTING TWIN ARM FREEWAY LIGHTING UNIT
 - EXISTING TWIN ARM FREEWAY LIGHTING UNIT REMOVE EXISTING HPS LUMINAIRE AND INSTALL LED LUMINAIRE
 - EXISTING UDL (UNDER DECK LIGHTING)
- STATION OFFSET
- 100+00.00, (100.00RT)
- LED C A(T) 4 ANSI
- CIRCUIT, SOURCE, POLE *
- ARM LENGTH
- POLE TYPE ON T-BASE/ON ANCHOR (A)
- LUMINAIRE CATEGORY
- LUMINAIRE SOURCE

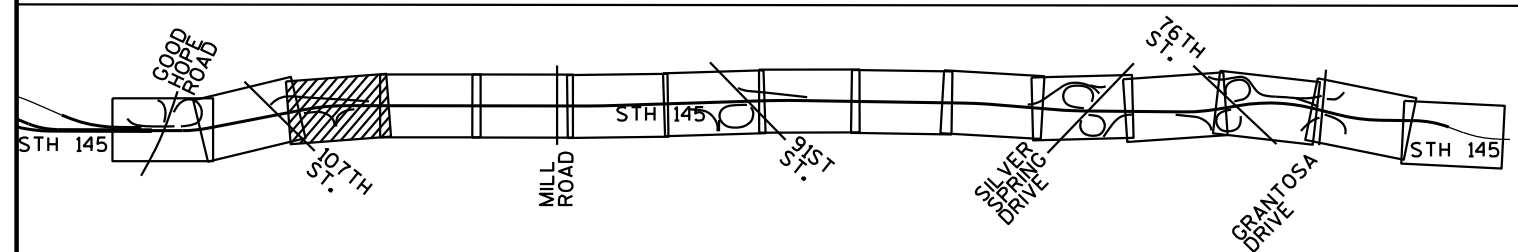


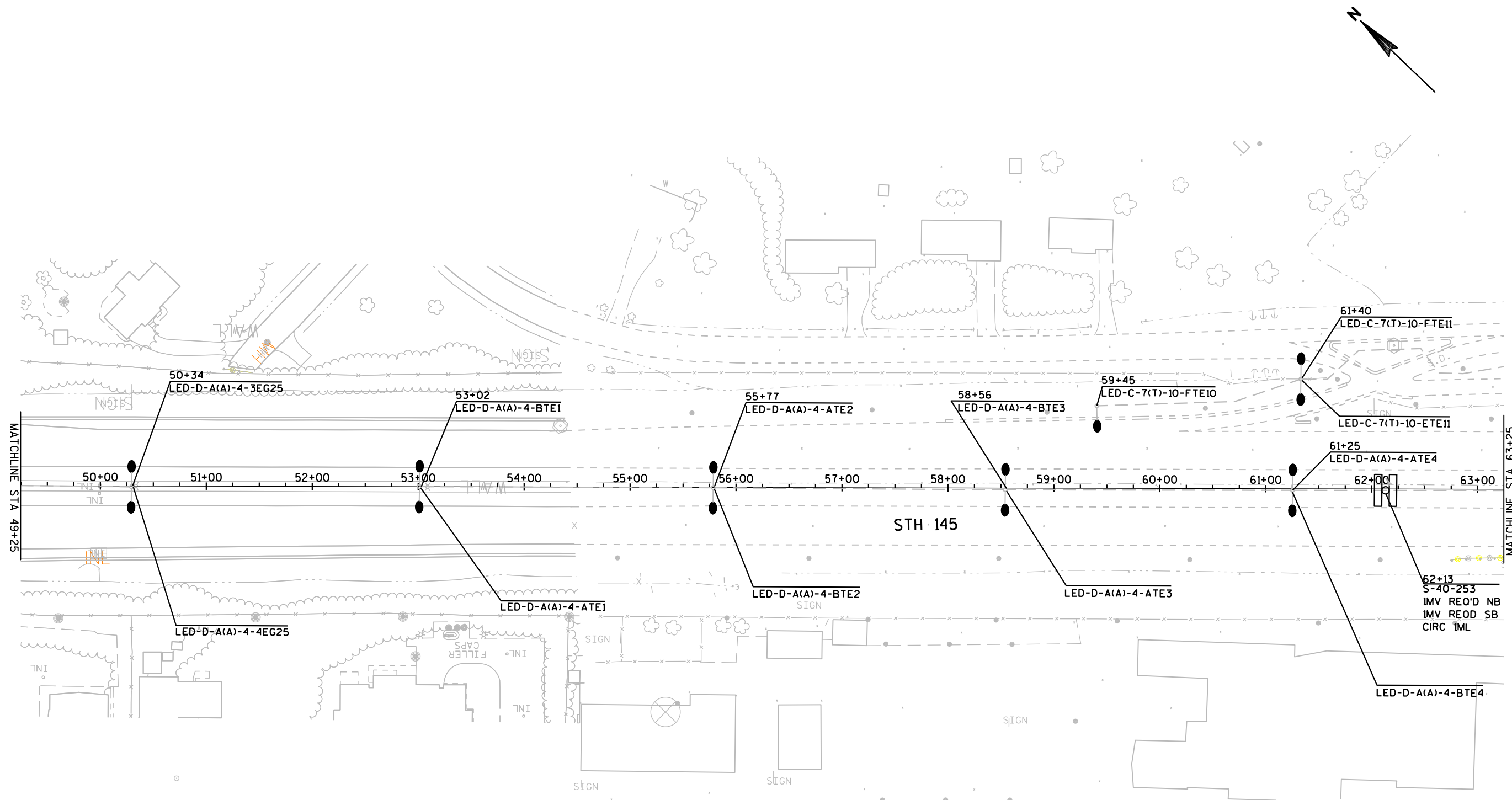
CONDUIT - 2" UNLESS OTHERWISE SHOWN







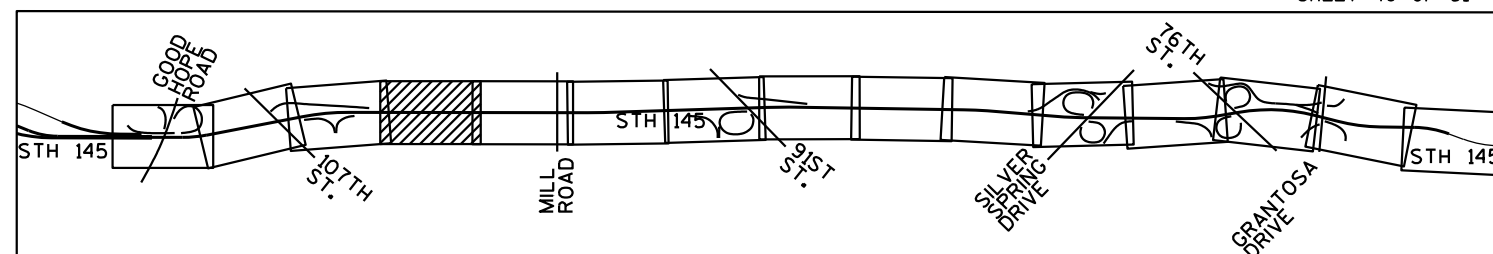




LEGEND

- EXISTING SINGLE ARM
FREEWAY LIGHTING UNIT
REMOVE EXISTING HPS LUMINAIRE
AND INSTALL LED LUMINAIRE
- EXISTING TWIN ARM
FREEWAY LIGHTING UNIT
REMOVE EXISTING HPS LUMINAIRE
AND INSTALL LED LUMINAIRE
- CONDUIT - 2" UNLESS OTHERWISE SHOWN
- STATION OFFSET
- 100+00.00, (100.00RT)
- LED C A(T) 4 ANSI
- CIRCUIT, SOURCE, POLE
- ARM LENGTH
- POLE TYPE ON T-BASE/ON ANCHOR (A)
- LUMINAIRE CATEGORY
- LUMINAIRE SOURCE

SHEET 40 OF 51



PROJECT NO: 1000-13-71

HWY: STH 145

COUNTY: MILWAUKEE

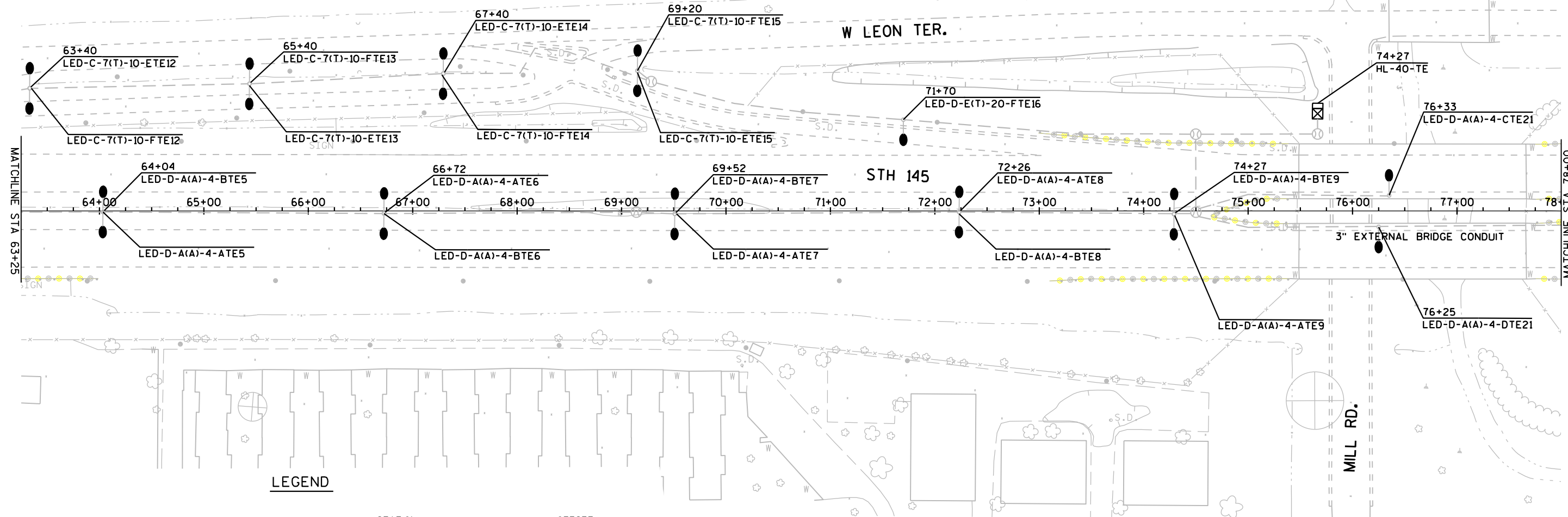
LIGHTING PLANS - PROPOSED (HL-40-EG/TE)

SHEET

53

E

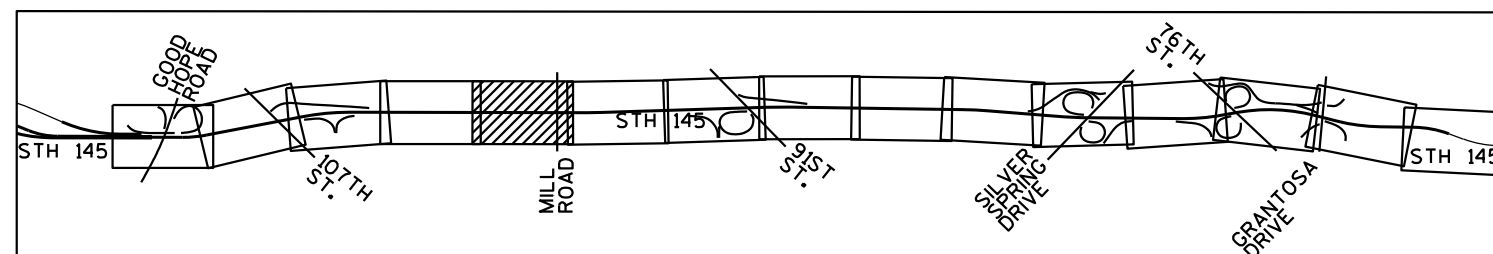
HL-40-TE	
A,C,E	RED
B,D,F	BLACK
240/480VAC 3W GROUNDED NEUTRAL	
A/B 40 AMPS ELSE, 30 AMPS	



LEGEND

- EXISTING SINGLE ARM
FREEWAY LIGHTING UNIT
REMOVE EXISTING HPS LUMINAIRE
AND INSTALL LED LUMINAIRE
- EXISTING TWIN ARM
FREEWAY LIGHTING UNIT
REMOVE EXISTING HPS LUMINAIRE
AND INSTALL LED LUMINAIRE
- ⊠ DISTRIBUTION CENTER
- ⊙ PULL BOX- 24" x 42"
- CONDUIT - 2" UNLESS OTHERWISE SHOWN
- STATION OFFSET
- 100+00.00, (100.00RT)
- LED C A(T) 4 ANSI
- CIRCUIT, SOURCE, POLE
- ARM LENGTH
- POLE TYPE ON T-BASE/ON ANCHOR (A)
- LUMINAIRE CATEGORY
- LUMINAIRE SOURCE

SHEET 41 OF 51



PROJECT NO: 1000-13-71

HWY: STH 145

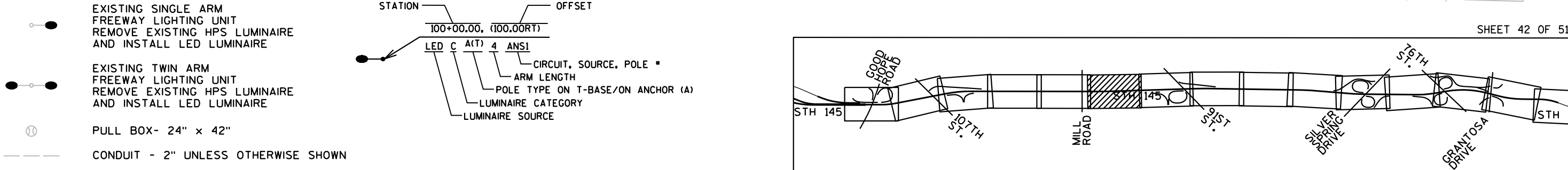
COUNTY: MILWAUKEE

LIGHTING PLANS - PROPOSED (HL-40-TE)

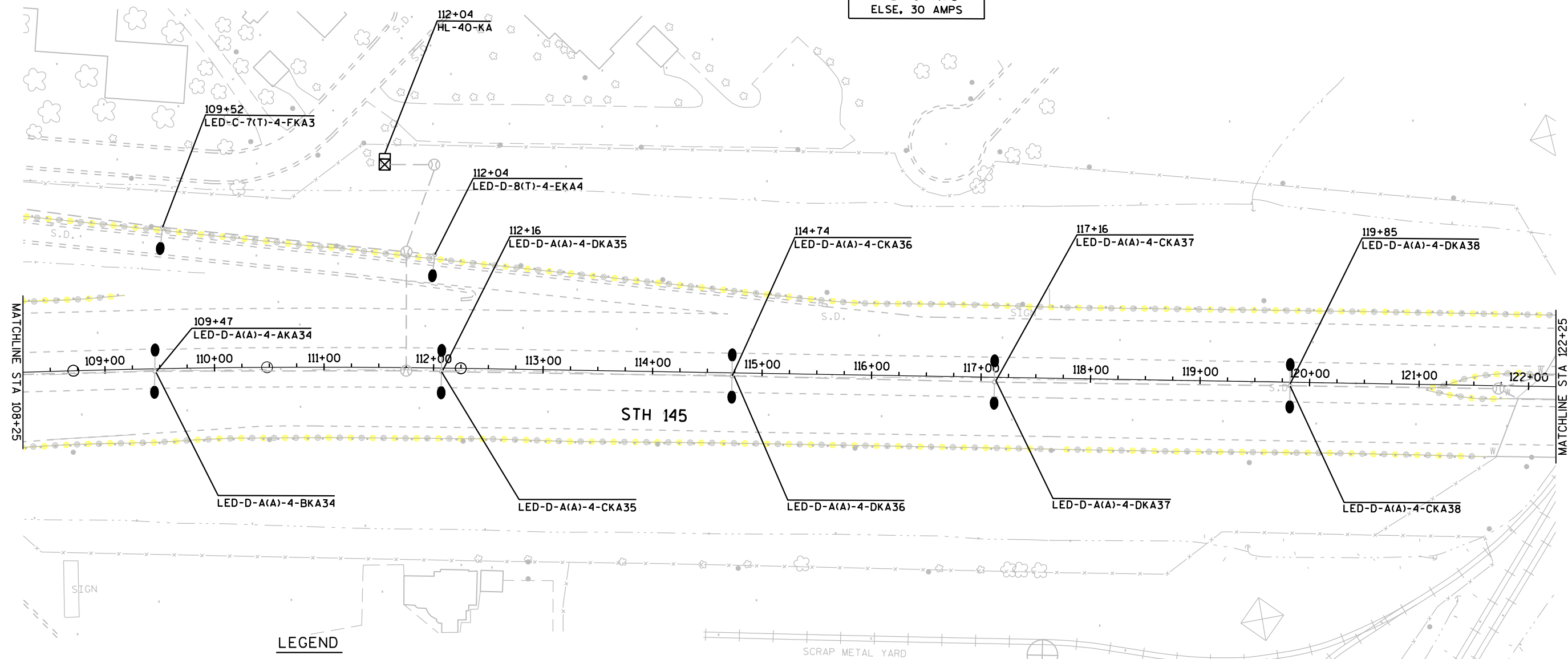
SHEET

54

E



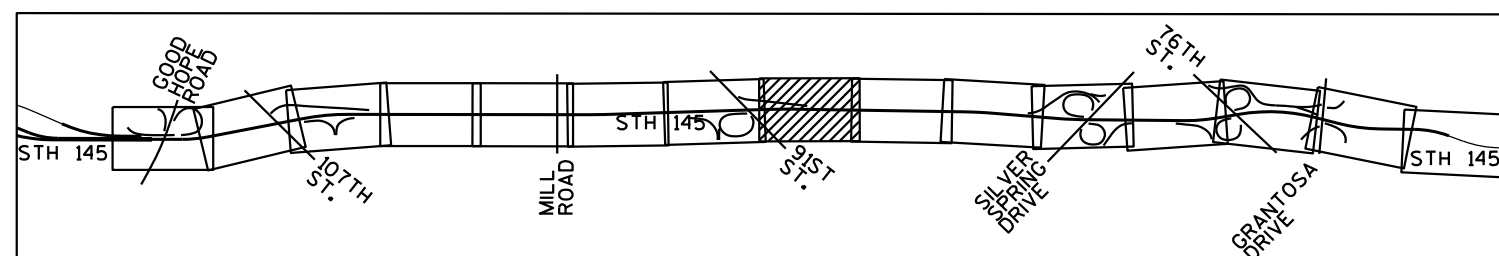
HL-40-KA	
A,C,E	RED
B,D,F	BLACK
240/480VAC 3W GROUNDED NEUTRAL	
A/B 40 AMPS ELSE, 30 AMPS	



LEGEND

- EXISTING SINGLE ARM
FREEWAY LIGHTING UNIT
REMOVE EXISTING HPS LUMINAIRE
AND INSTALL LED LUMINAIRE
 - EXISTING TWIN ARM
FREEWAY LIGHTING UNIT
REMOVE EXISTING HPS LUMINAIRE
AND INSTALL LED LUMINAIRE
 - DISTRIBUTION CENTER
 - PULL BOX- 24" x 42"
 - CONDUIT - 2" UNLESS OTHERWISE SHOWN
- STATION OFFSET
- 100+00.00, (100.00RT)
- LED C A(T) 4 ANSI
- CIRCUIT, SOURCE, POLE #
- ARM LENGTH
- POLE TYPE ON T-BASE/ON ANCHOR (A)
- LUMINAIRE CATEGORY
- LUMINAIRE SOURCE

SHEET 44 OF 51



PROJECT NO: 1000-13-71

HWY: STH 145

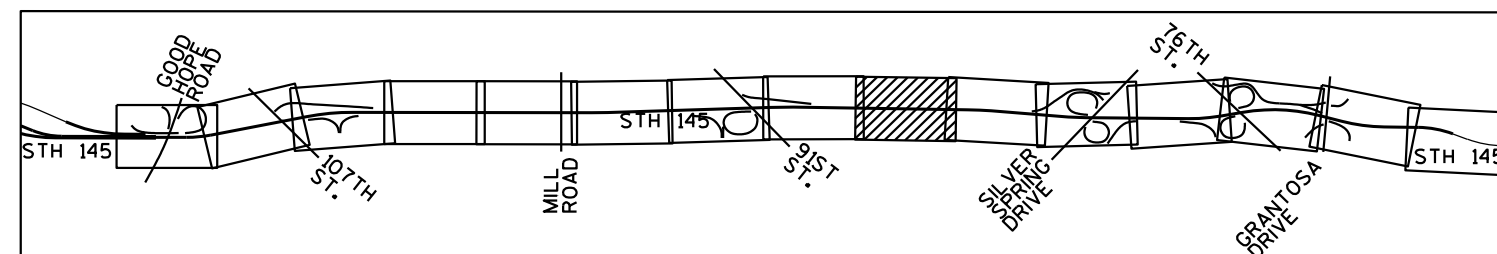
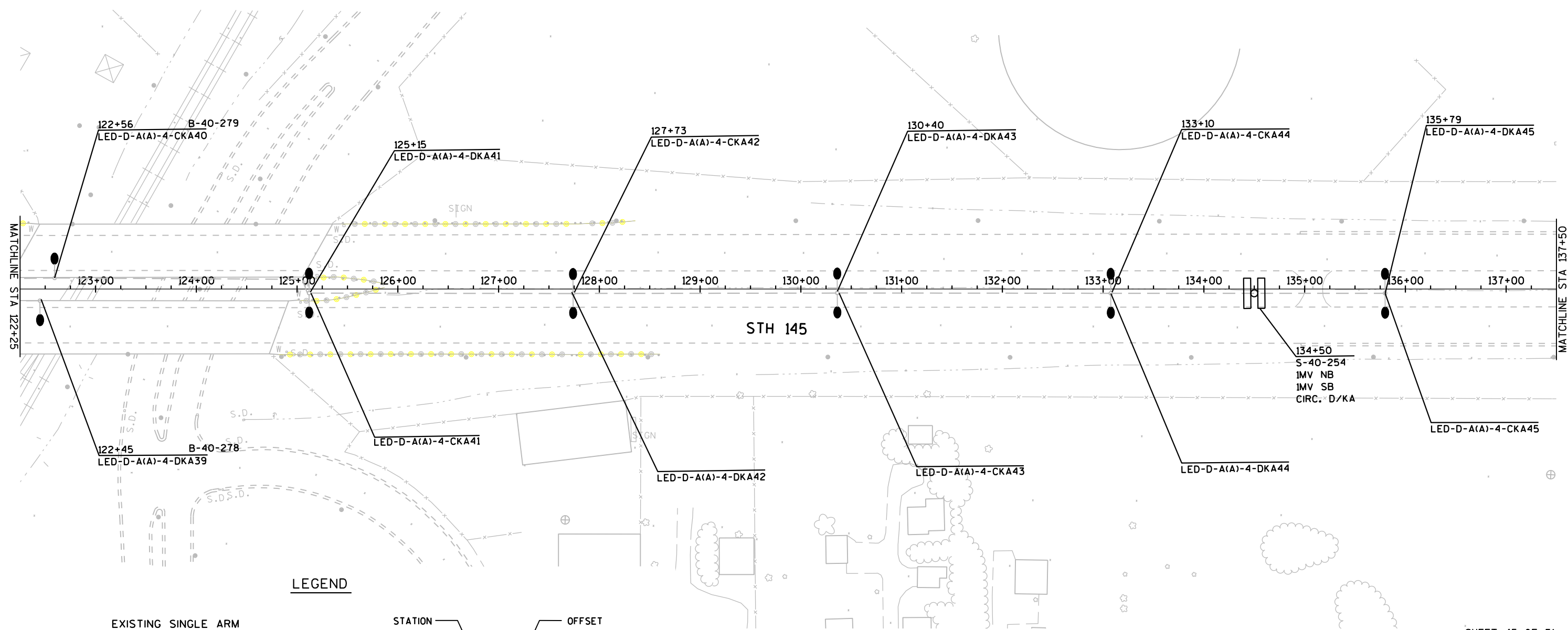
COUNTY: MILWAUKEE

LIGHTING PLANS - PROPOSED (HL-40-KA)

SHEET

57

E



PROJECT NO: 1000-13-71

HWY: STH 145

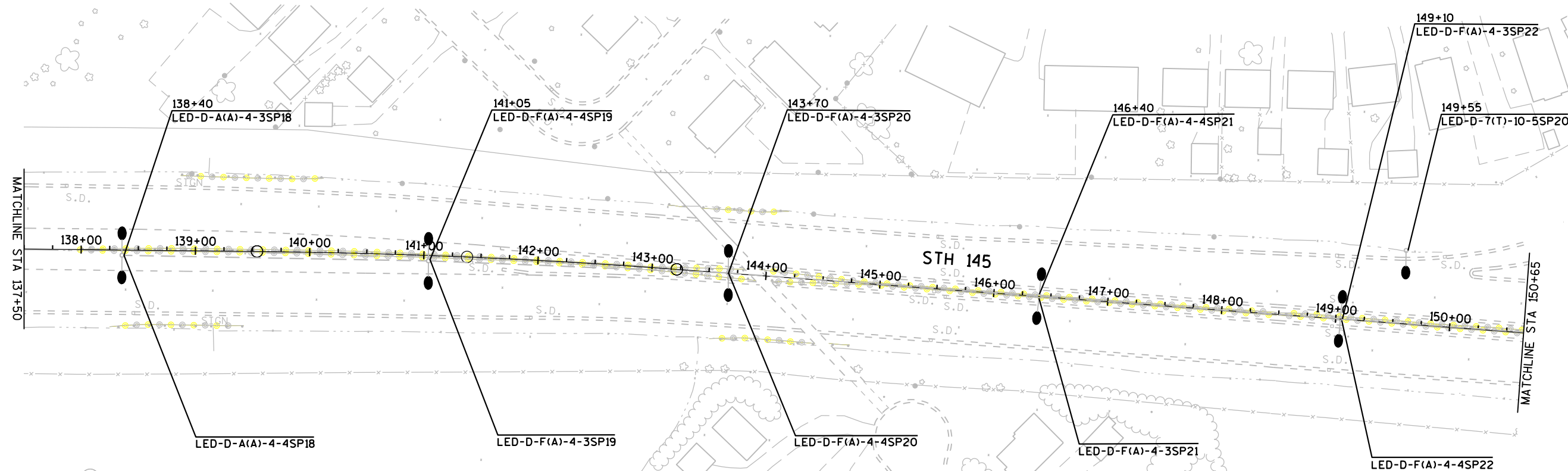
COUNTY: MILWAUKEE

LIGHTING PLANS - PROPOSED (HL-40-KA)

SHEET

58

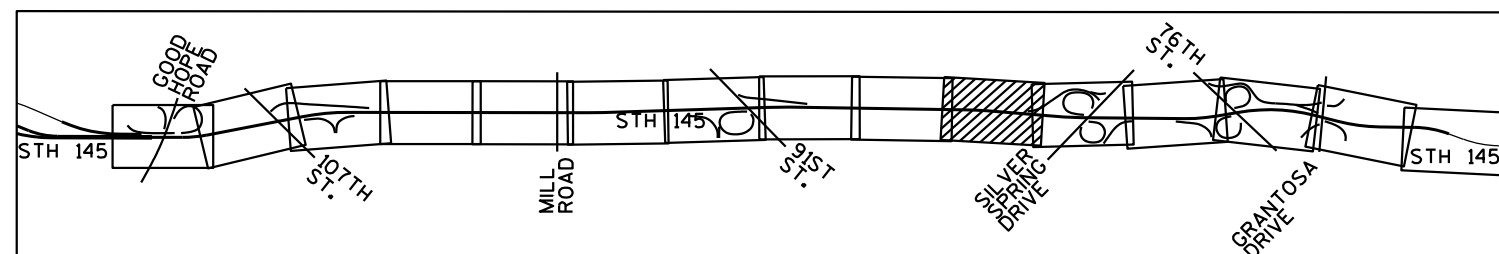
E



LEGEND

- EXISTING SINGLE ARM
FREeway LIGHTING UNIT
REMOVE EXISTING HPS LUMINAIRE
AND INSTALL LED LUMINAIRE
- EXISTING TWIN ARM
FREeway LIGHTING UNIT
REMOVE EXISTING HPS LUMINAIRE
AND INSTALL LED LUMINAIRE
- CONDUIT - 2" UNLESS OTHERWISE SHOWN
- STATION 100+00.00, (100.00RT)
- LED C A(T) 4 ANSI
- OFFSET
- CIRCUIT, SOURCE, POLE
- ARM LENGTH
- POLE TYPE ON T-BASE/ON ANCHOR (A)
- LUMINAIRE CATEGORY
- LUMINAIRE SOURCE

SHEET 46 OF 51



PROJECT NO: 1000-13-71

HWY: STH 145

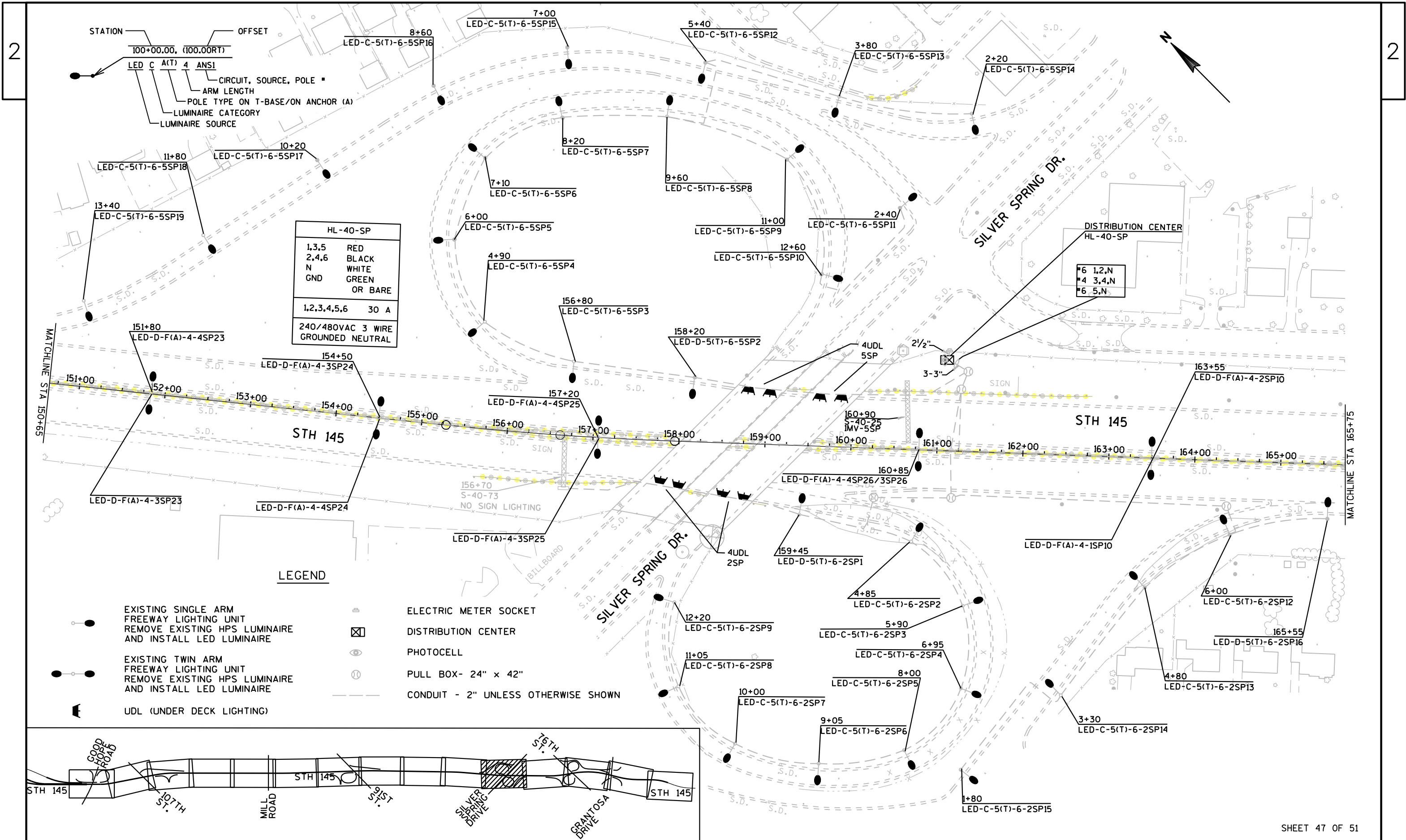
COUNTY: MILWAUKEE

LIGHTING PLANS - PROPOSED (HL-40-SP)

SHEET

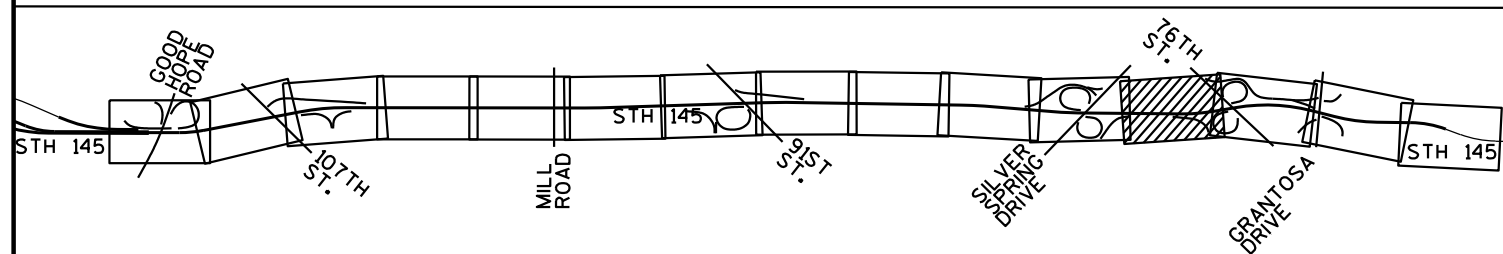
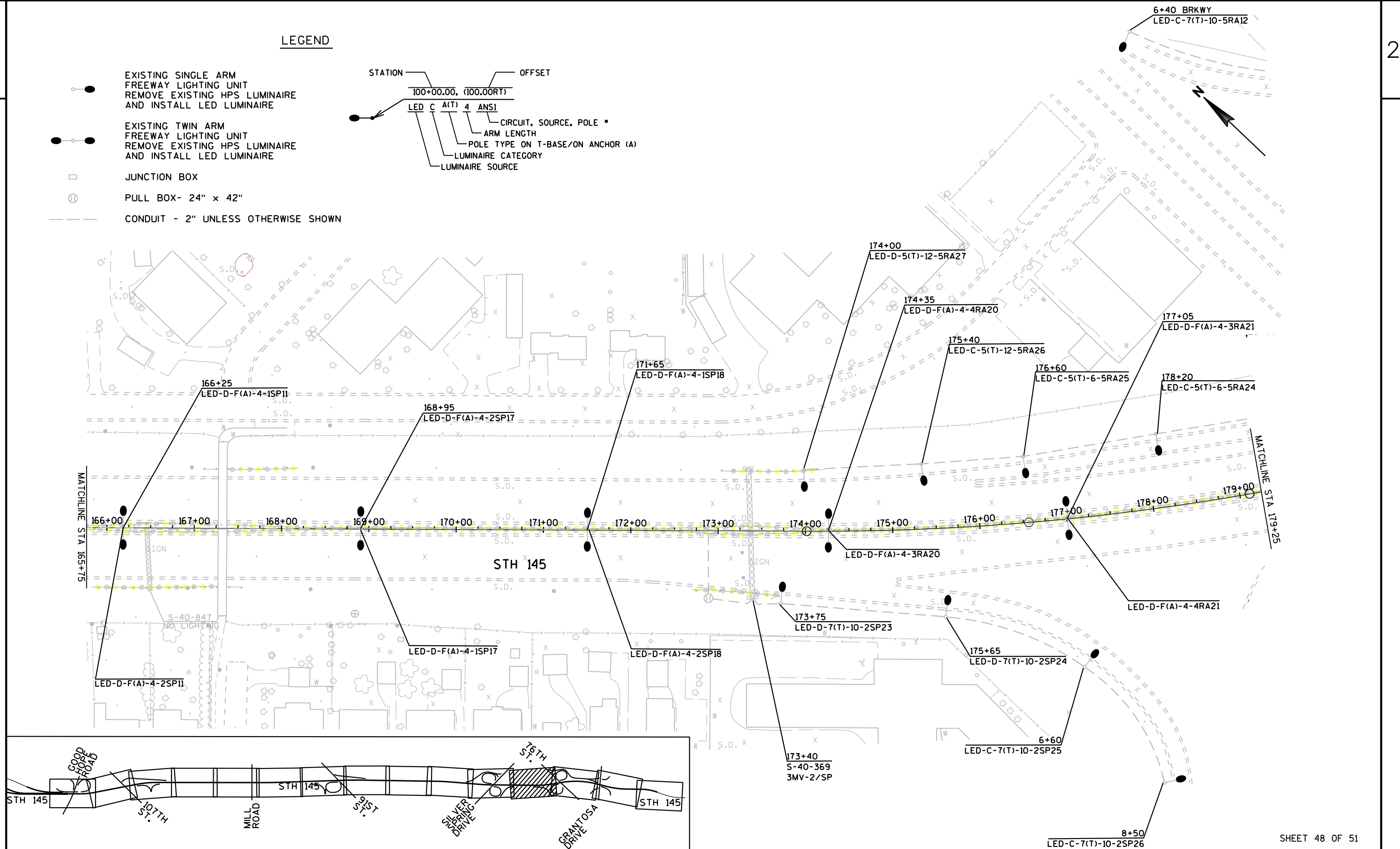
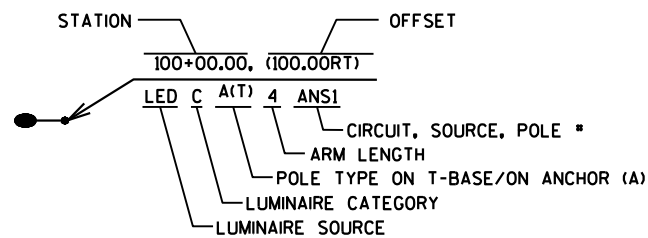
59

E



LEGEND

- EXISTING SINGLE ARM
FREEWAY LIGHTING UNIT
REMOVE EXISTING HPS LUMINAIRE
AND INSTALL LED LUMINAIRE
- EXISTING TWIN ARM
FREEWAY LIGHTING UNIT
REMOVE EXISTING HPS LUMINAIRE
AND INSTALL LED LUMINAIRE
- JUNCTION BOX
- ⊗ PULL BOX- 24" x 42"
- CONDUIT - 2" UNLESS OTHERWISE SHOWN



PROJECT NO: 1000-13-71

HWY: STH 145

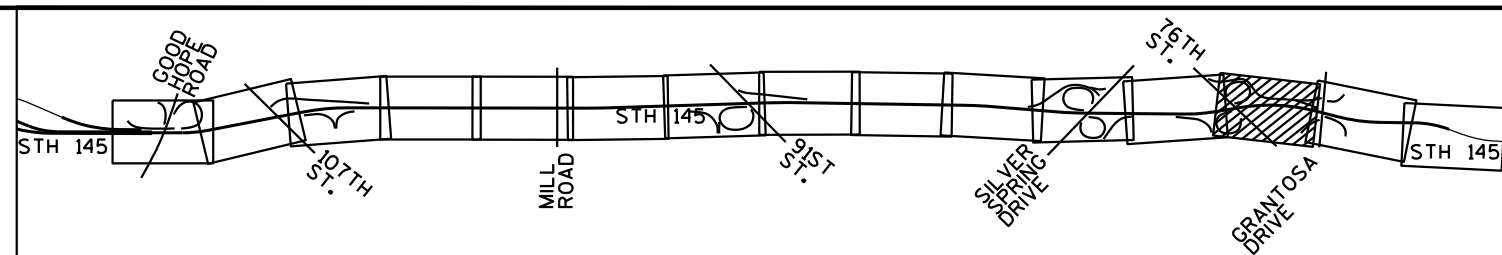
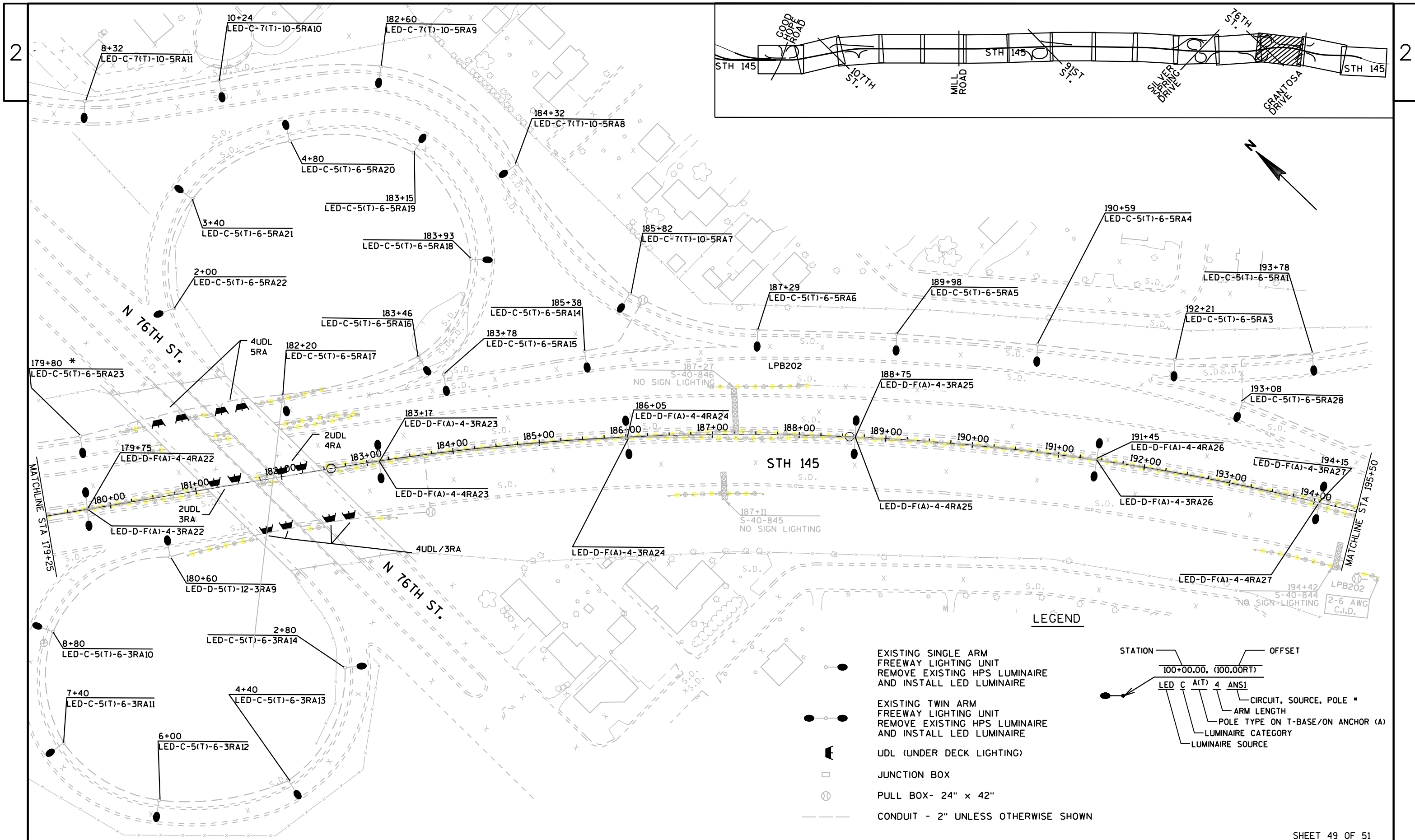
COUNTY: MILWAUKEE

LIGHTING PLANS - PROPOSED (HL-40-SP/RA)

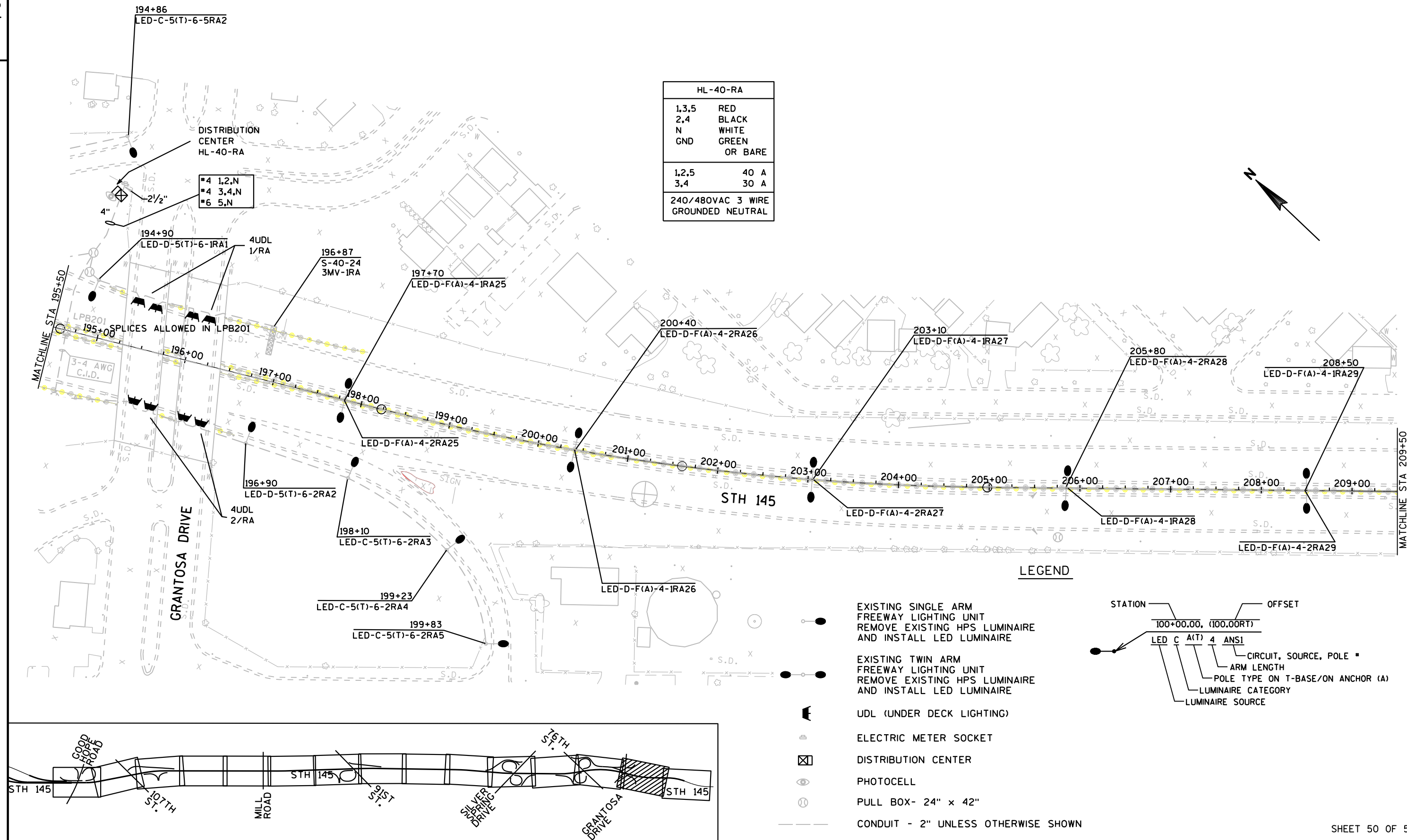
SHEET

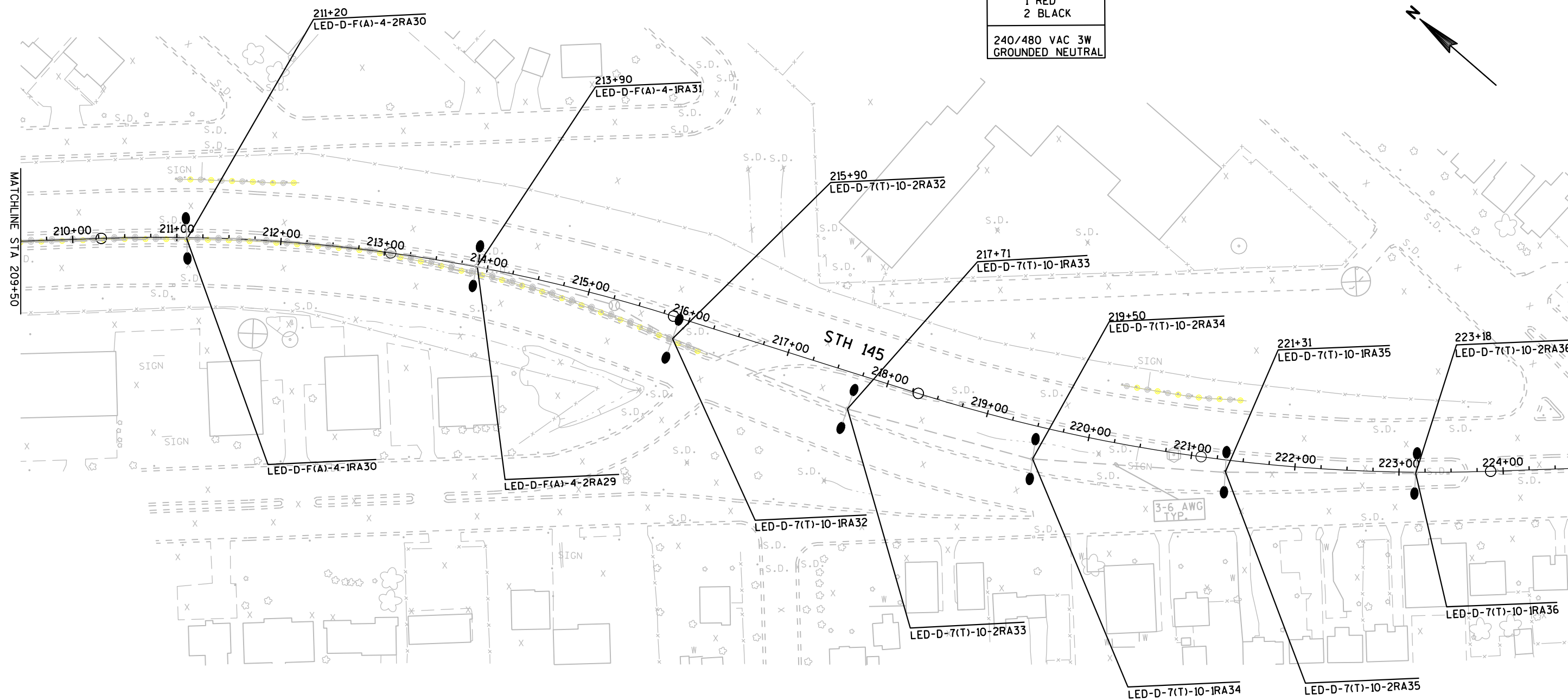
61

E

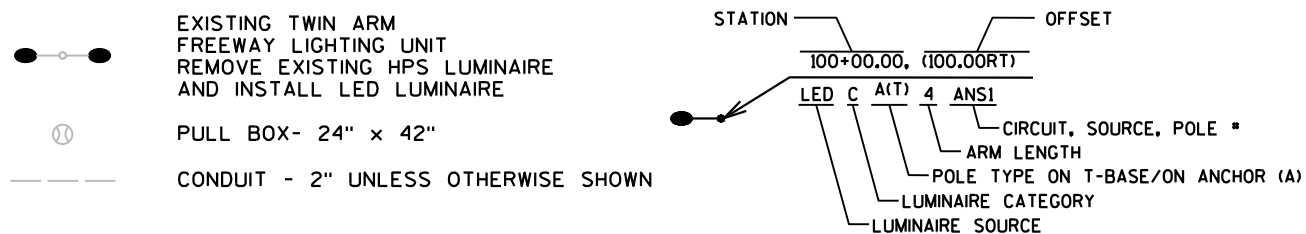


- LEGEND**
- EXISTING SINGLE ARM FREEWAY LIGHTING UNIT
REMOVE EXISTING HPS LUMINAIRE AND INSTALL LED LUMINAIRE
 - EXISTING TWIN ARM FREEWAY LIGHTING UNIT
REMOVE EXISTING HPS LUMINAIRE AND INSTALL LED LUMINAIRE
 - UDL (UNDER DECK LIGHTING)
 - JUNCTION BOX
 - PULL BOX- 24" x 42"
 - CONDUIT - 2" UNLESS OTHERWISE SHOWN
- STATION** **OFFSET**
- 100+00.00, (100.00RT)
- LED C A(T) 4 ANSI CIRCUIT, SOURCE, POLE *
ARM LENGTH
POLE TYPE ON T-BASE/ON ANCHOR (A)
LUMINAIRE CATEGORY
LUMINAIRE SOURCE

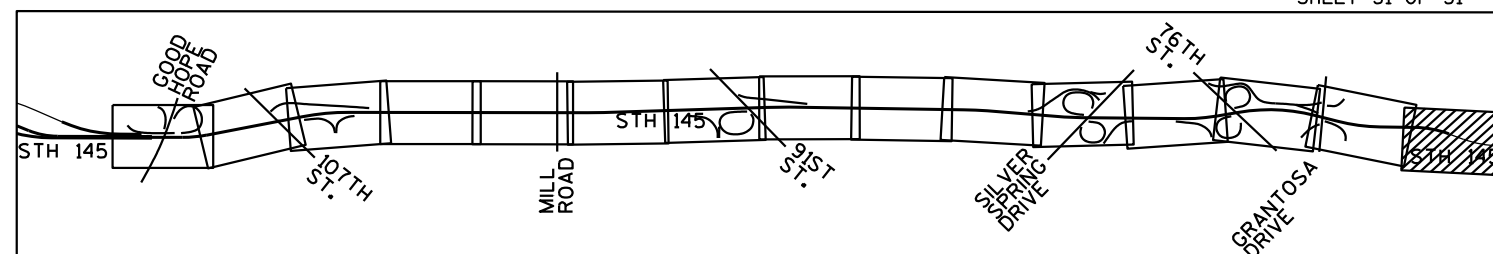




LEGEND



SHEET 51 OF 51



PROJECT NO: 1000-13-71

HWY: STH 145

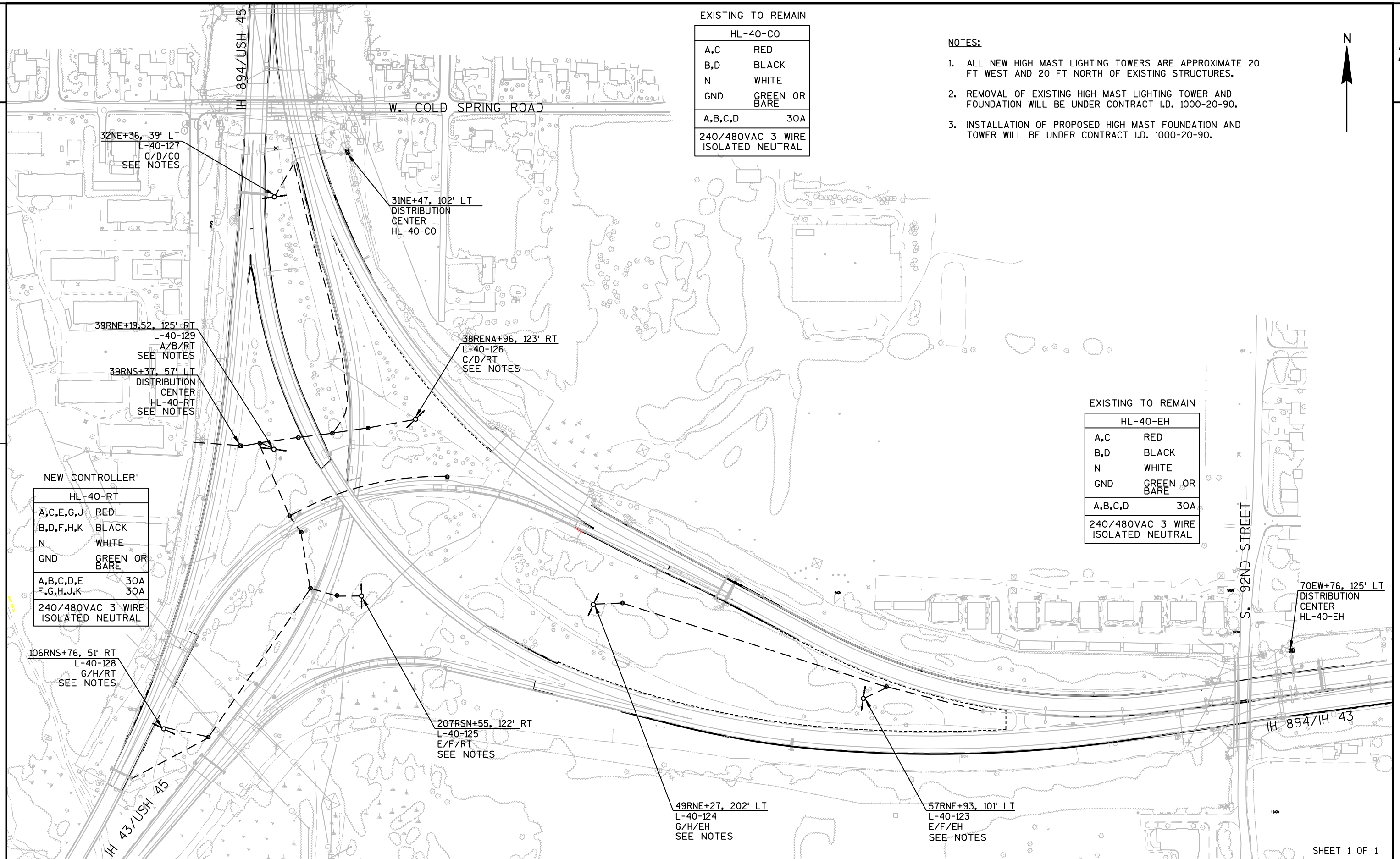
COUNTY: MILWAUKEE

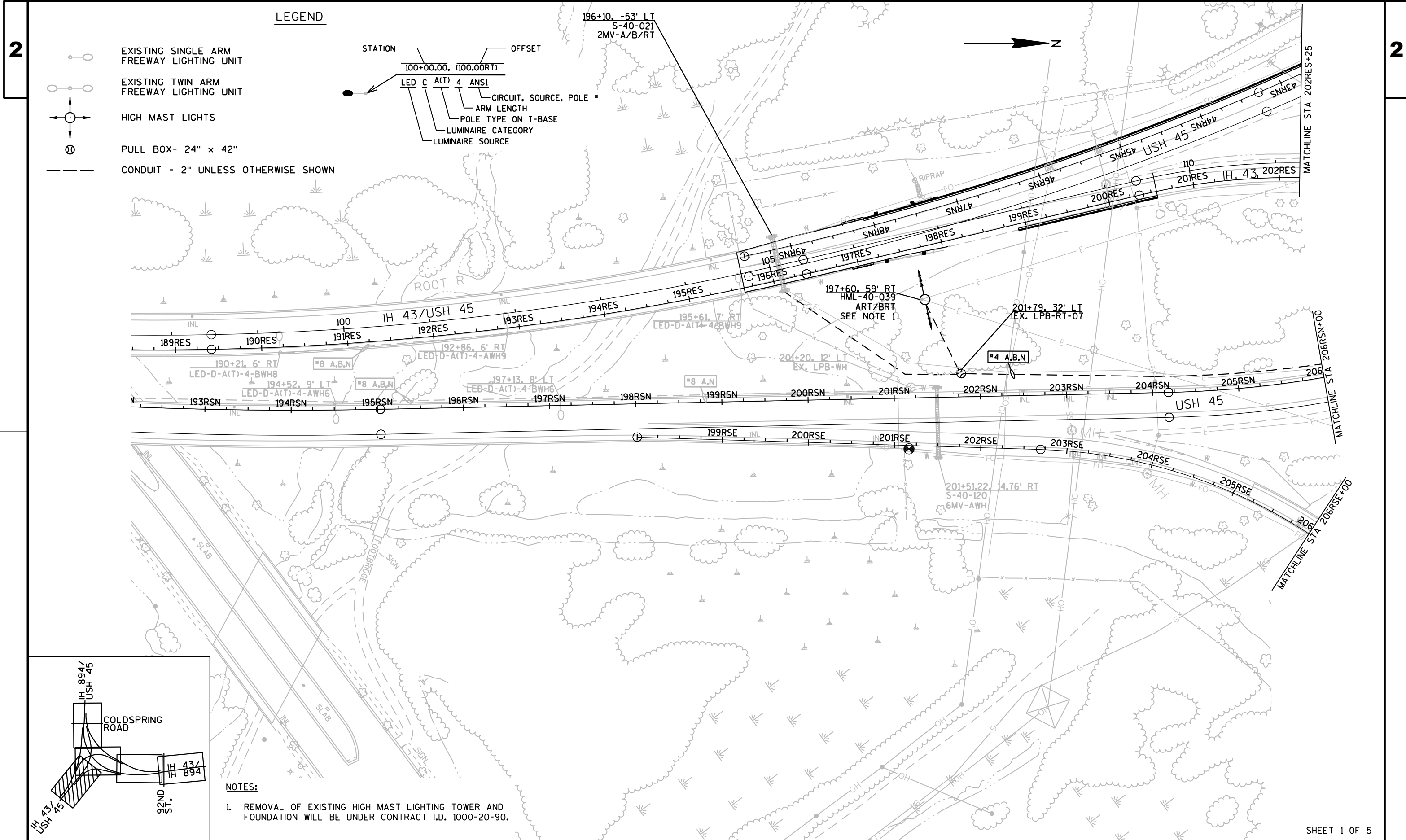
LIGHTING PLANS - PROPOSED (HL-40-RA)

SHEET

64

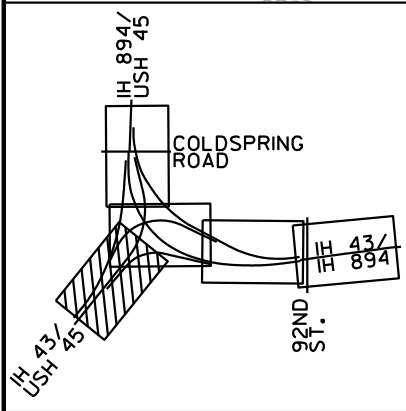
E



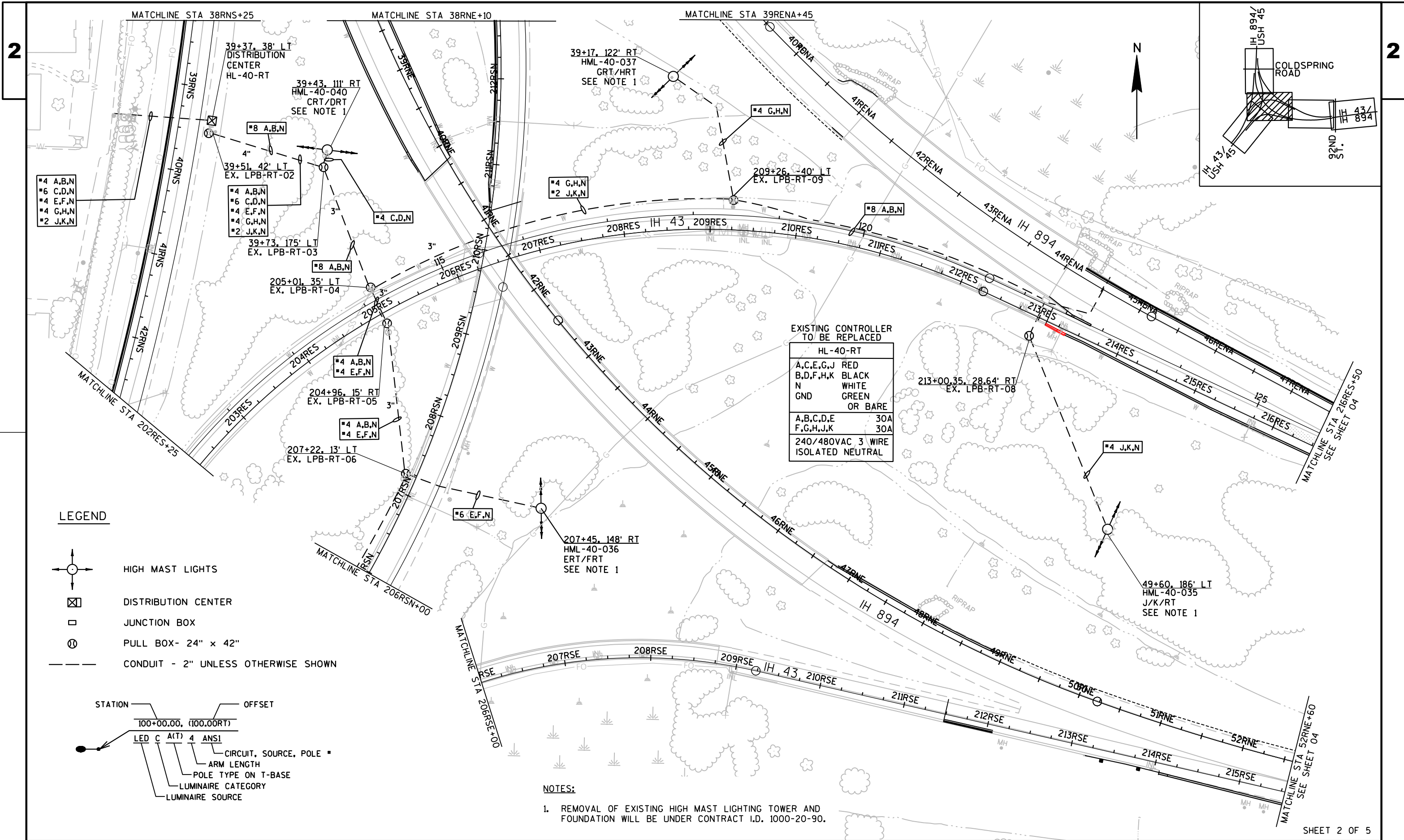


LEGEND

- EXISTING SINGLE ARM FREEWAY LIGHTING UNIT
 - EXISTING TWIN ARM FREEWAY LIGHTING UNIT
 - HIGH MAST LIGHTS
 - PULL BOX- 24" x 42"
 - CONDUIT - 2" UNLESS OTHERWISE SHOWN
- STATION OFFSET
- 100+00.00, (100.00RT)
- LED C A(T) 4 ANS1
- CIRCUIT, SOURCE, POLE
- ARM LENGTH
- POLE TYPE ON T-BASE
- LUMINAIRE CATEGORY
- LUMINAIRE SOURCE



- NOTES:
- REMOVAL OF EXISTING HIGH MAST LIGHTING TOWER AND FOUNDATION WILL BE UNDER CONTRACT I.D. 1000-20-90.



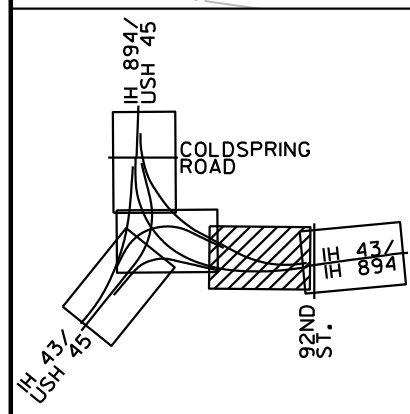
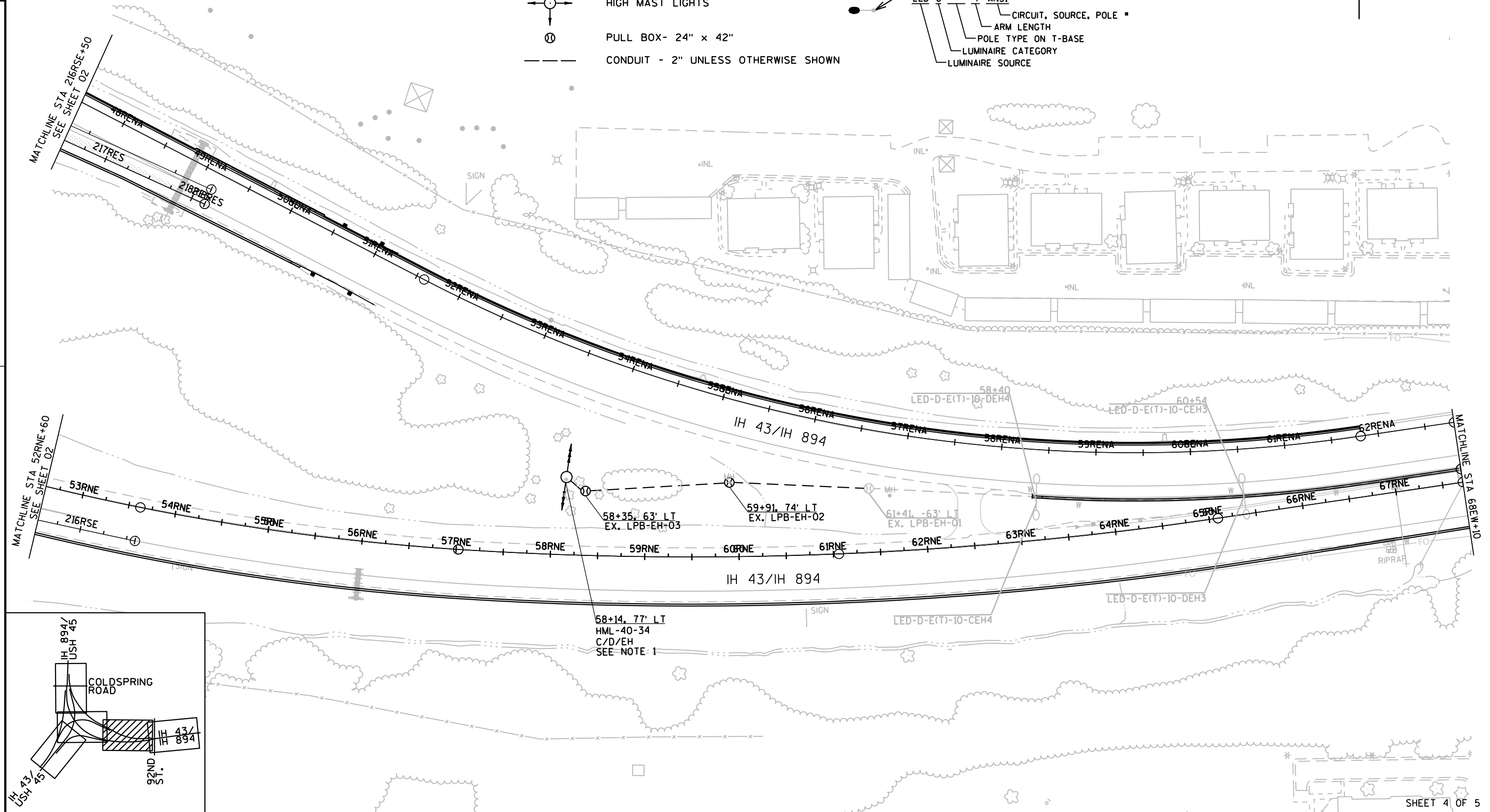
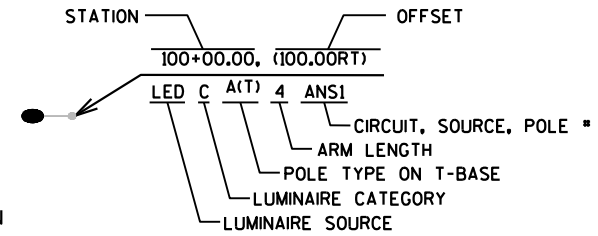
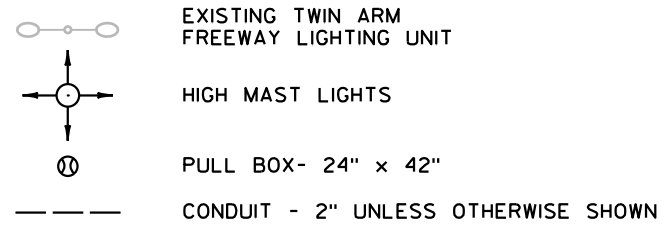
1. REMOVAL OF EXISTING HIGH MAST LIGHTING TOWER AND FOUNDATION WILL BE UNDER CONTRACT I.D. 1000-20-90.



NOTES:

1. REMOVAL OF EXISTING HIGH MAST LIGHTING TOWER AND FOUNDATION WILL BE UNDER CONTRACT I.D. 1000-20-90.

LEGEND



SHEET 4 OF 5

PROJECT NO: 1000-13-71

HWY: IH 894

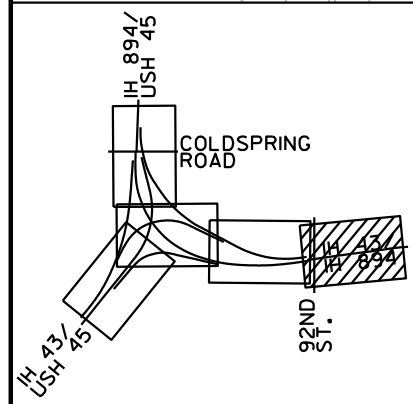
COUNTY: MILWAUKEE

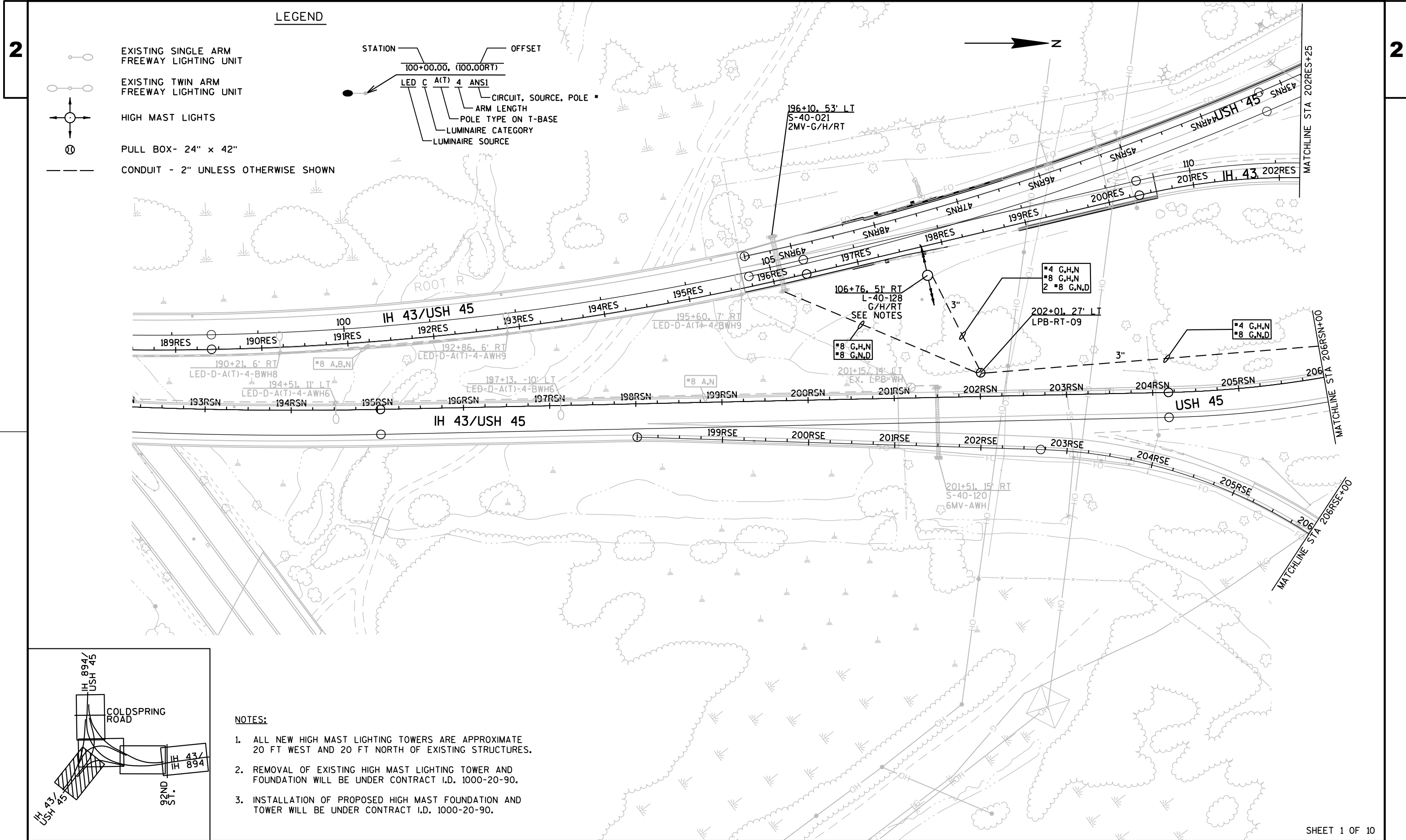
LIGHTING PLANS - REMOVALS (HL-40-EH)

SHEET

69

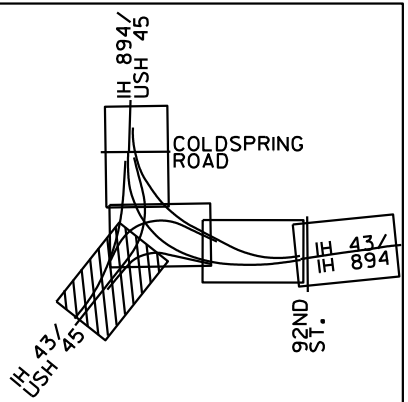
E





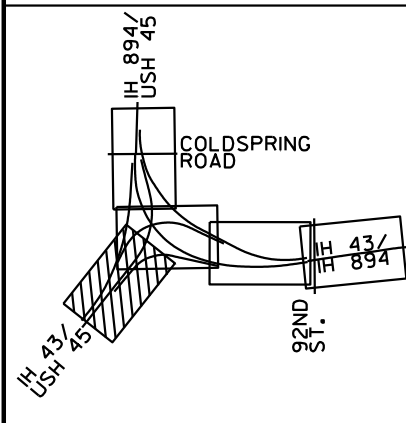
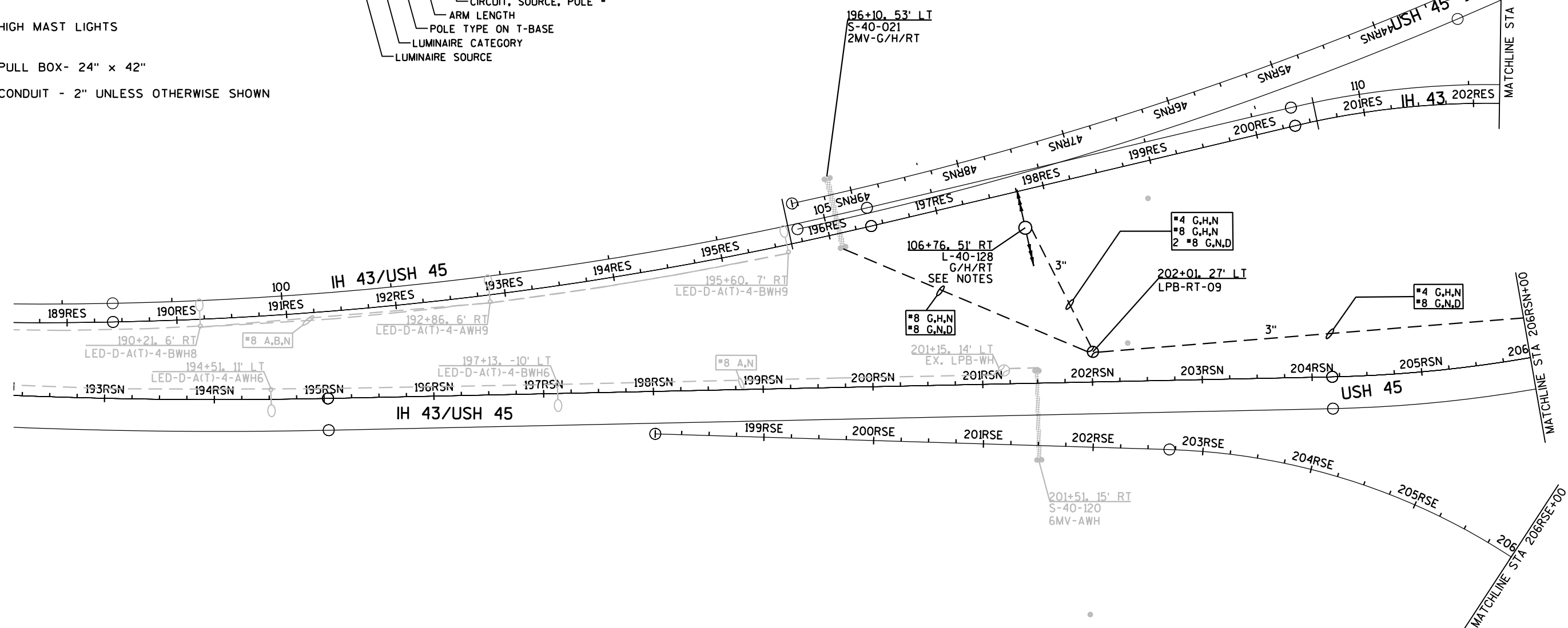
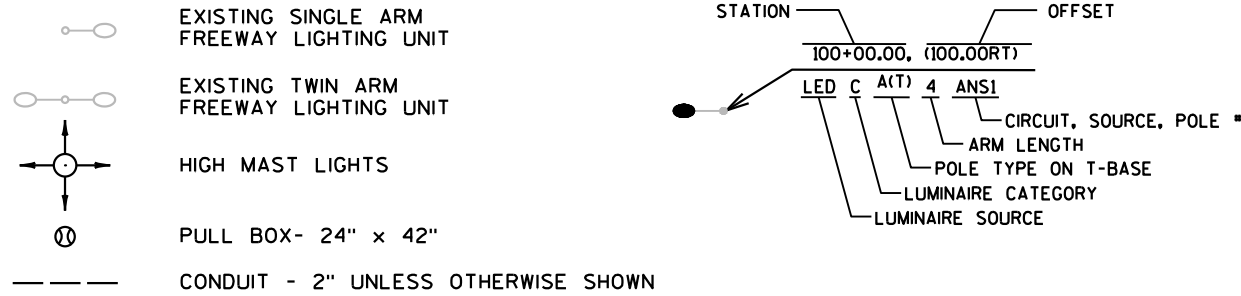
LEGEND

- EXISTING SINGLE ARM FREEWAY LIGHTING UNIT
 - EXISTING TWIN ARM FREEWAY LIGHTING UNIT
 - HIGH MAST LIGHTS
 - PULL BOX- 24" x 42"
 - CONDUIT - 2" UNLESS OTHERWISE SHOWN
- STATION OFFSET
- 100+00.00, (100.00RT)
- LED C A(T) 4 ANS1
- CIRCUIT, SOURCE, POLE
- ARM LENGTH
- POLE TYPE ON T-BASE
- LUMINAIRE CATEGORY
- LUMINAIRE SOURCE

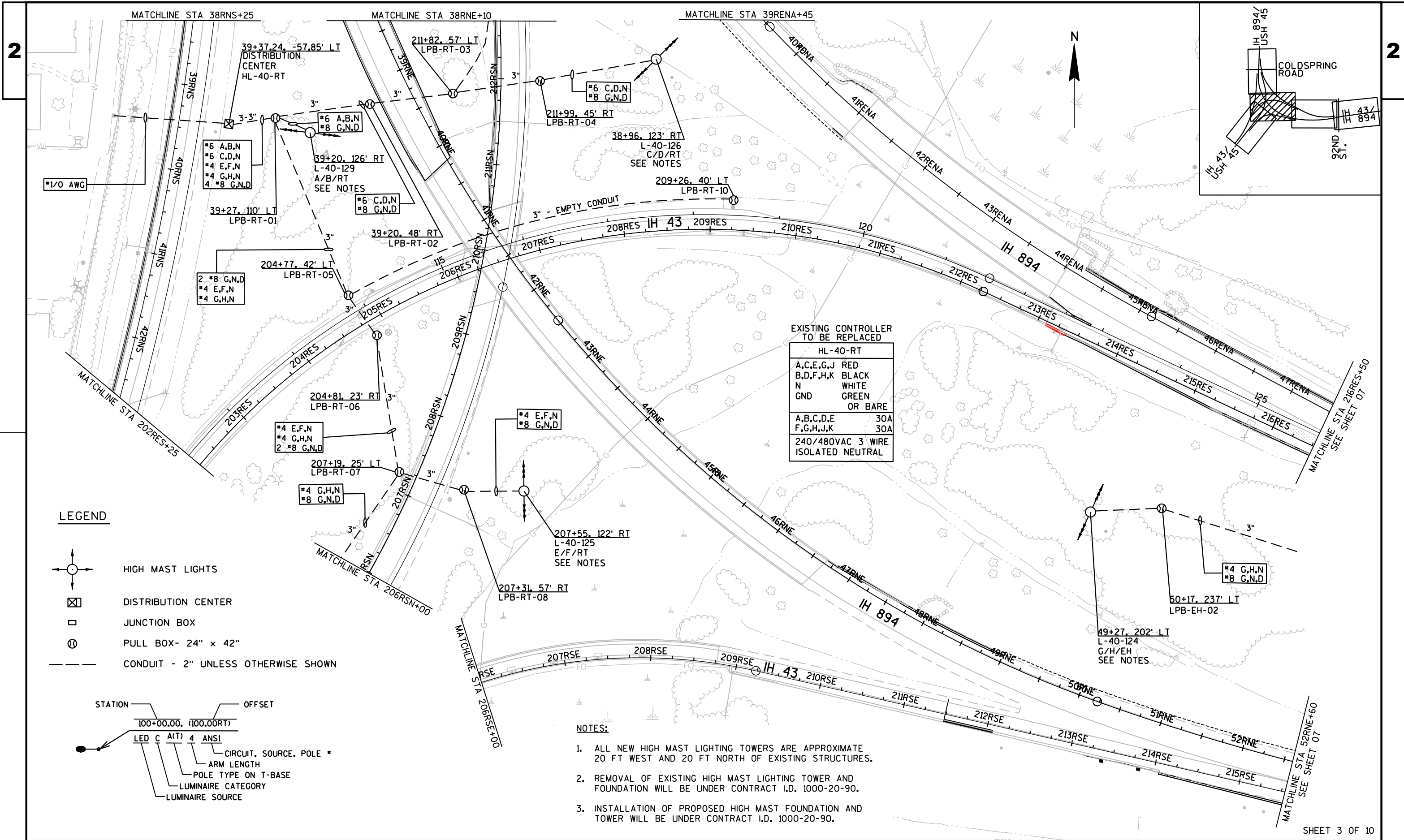


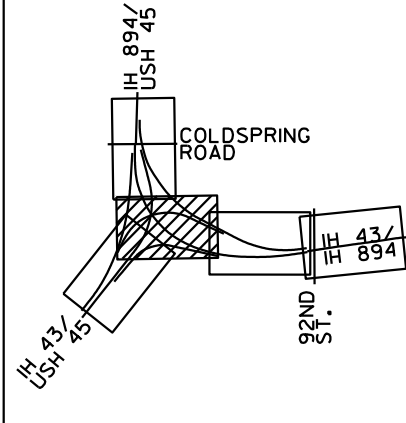
- NOTES:
- ALL NEW HIGH MAST LIGHTING TOWERS ARE APPROXIMATE 20 FT WEST AND 20 FT NORTH OF EXISTING STRUCTURES.
 - REMOVAL OF EXISTING HIGH MAST LIGHTING TOWER AND FOUNDATION WILL BE UNDER CONTRACT I.D. 1000-20-90.
 - INSTALLATION OF PROPOSED HIGH MAST FOUNDATION AND TOWER WILL BE UNDER CONTRACT I.D. 1000-20-90.

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1. ALL NEW HIGH MAST LIGHTING TOWERS ARE APPROXIMATE 20 FT WEST AND 20 FT NORTH OF EXISTING STRUCTURES.
2. REMOVAL OF EXISTING HIGH MAST LIGHTING TOWER AND FOUNDATION WILL BE UNDER CONTRACT I.D. 1000-20-90.
3. INSTALLATION OF PROPOSED HIGH MAST FOUNDATION AND TOWER WILL BE UNDER CONTRACT I.D. 1000-20-90.



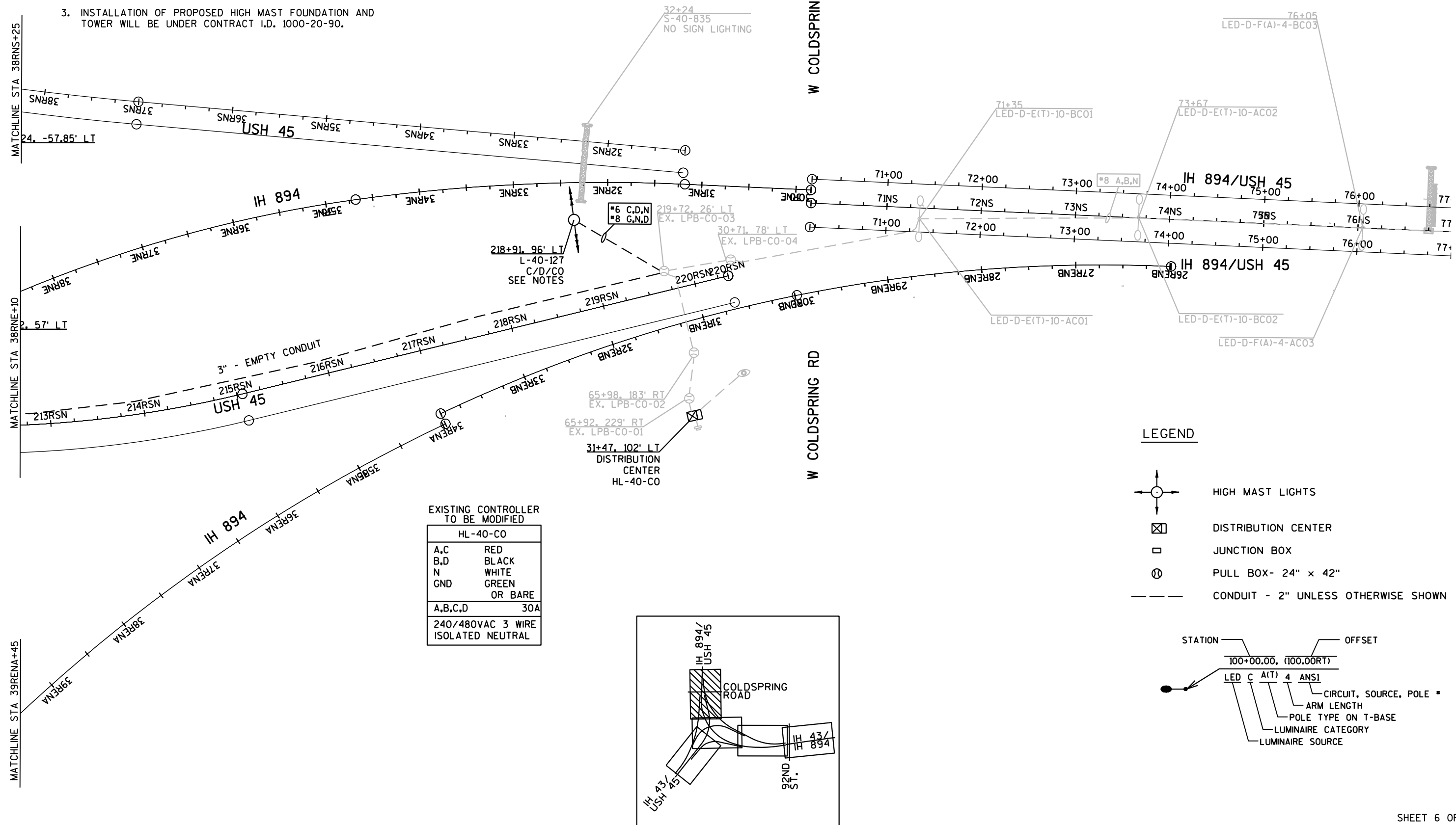


1. ALL NEW HIGH MAST LIGHTING TOWERS ARE APPROXIMATE 20 FT WEST AND 20 FT NORTH OF EXISTING STRUCTURES.
2. REMOVAL OF EXISTING HIGH MAST LIGHTING TOWER AND FOUNDATION WILL BE UNDER CONTRACT I.D. 1000-20-90.
3. INSTALLATION OF PROPOSED HIGH MAST FOUNDATION AND TOWER WILL BE UNDER CONTRACT I.D. 1000-20-90.



NOTES:

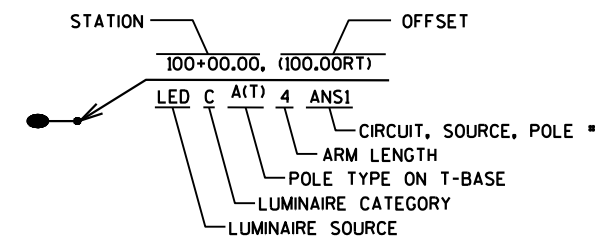
1. ALL NEW HIGH MAST LIGHTING TOWERS ARE APPROXIMATE 20 FT WEST AND 20 FT NORTH OF EXISTING STRUCTURES.
2. REMOVAL OF EXISTING HIGH MAST LIGHTING TOWER AND FOUNDATION WILL BE UNDER CONTRACT I.D. 1000-20-90.
3. INSTALLATION OF PROPOSED HIGH MAST FOUNDATION AND TOWER WILL BE UNDER CONTRACT I.D. 1000-20-90.

EXISTING CONTROLLER
TO BE MODIFIED

HL-40-CO	
A,C	RED
B,D	BLACK
N	WHITE
GND	GREEN OR BARE
A,B,C,D	30A
240/480VAC 3 WIRE ISOLATED NEUTRAL	

LEGEND

- HIGH MAST LIGHTS
- ⊠ DISTRIBUTION CENTER
- JUNCTION BOX
- ⊙ PULL BOX- 24" x 42"
- CONDUIT - 2" UNLESS OTHERWISE SHOWN



SHEET 6 OF 10

PROJECT NO: 1000-13-71

HWY: IH 894

COUNTY: MILWAUKEE

LIGHTING PLANS - SCHEMATIC (HL-40-RT/HL-40-CO)

SHEET

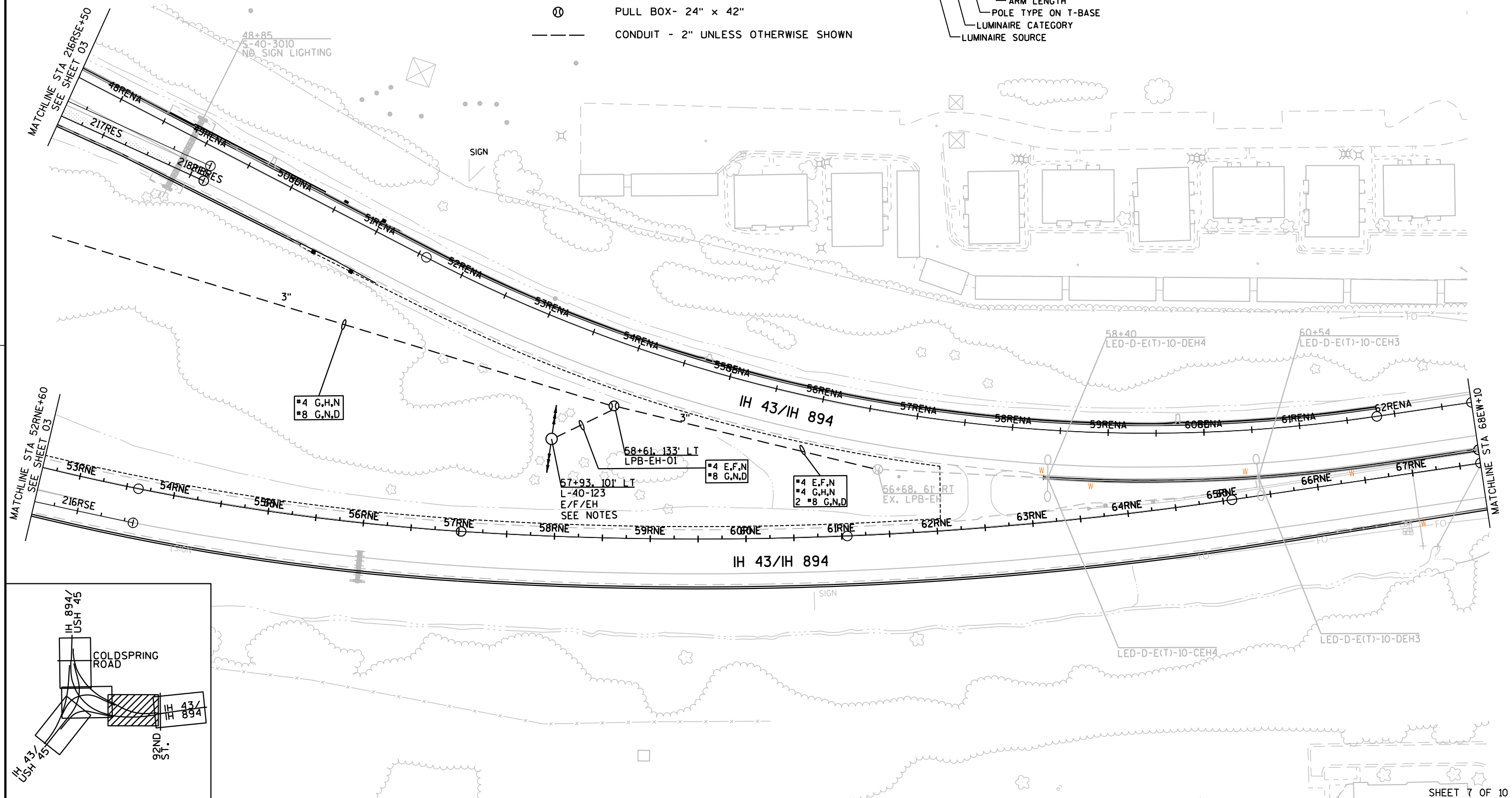
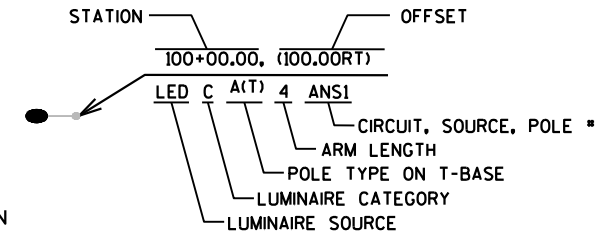
76

E

2

LEGEND

- | | |
|---|--|
|  | EXISTING TWIN ARM
FREEWAY LIGHTING UNIT |
|  | HIGH MAST LIGHTS |
|  | PULL BOX- 24" x 42" |
|  | CONDUIT - 2" UNLESS OTHERWISE SHOWN |



SHEET 7 OF 10

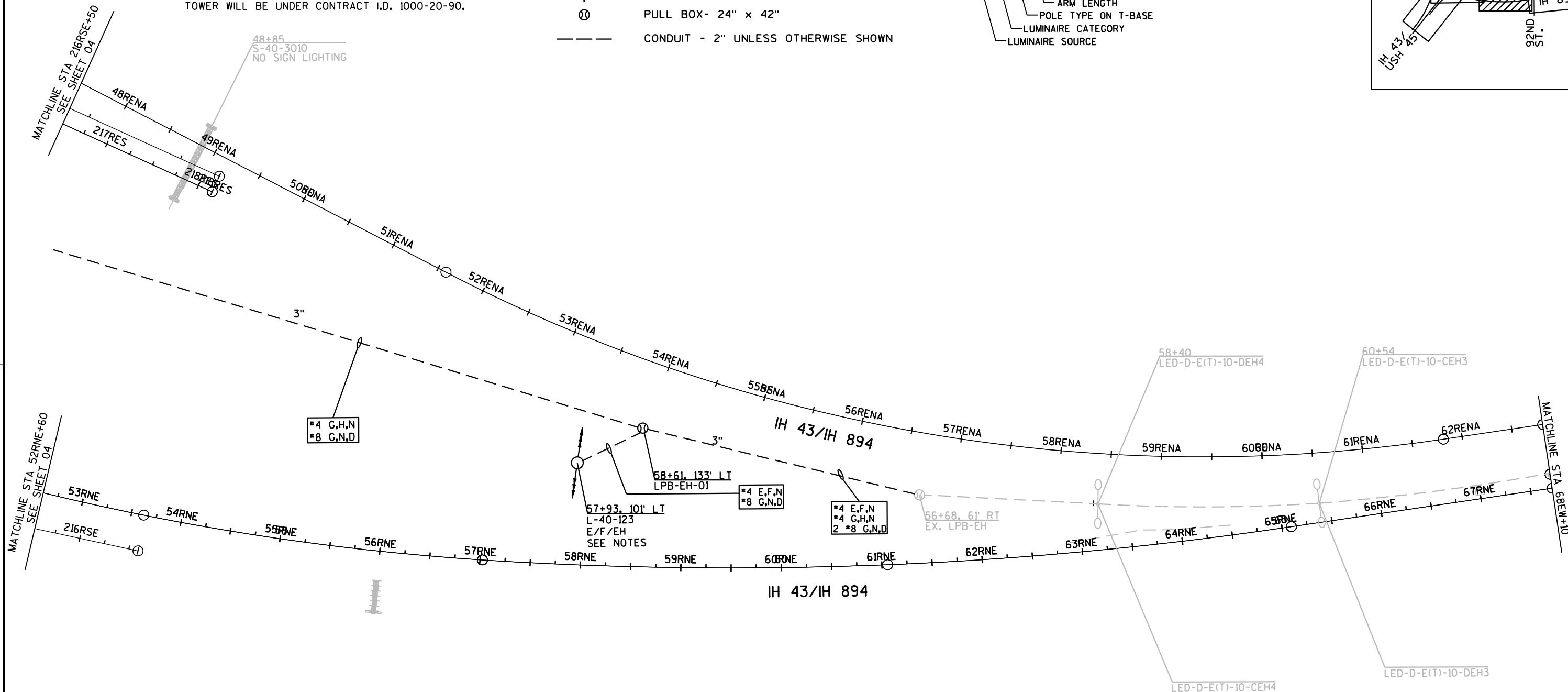
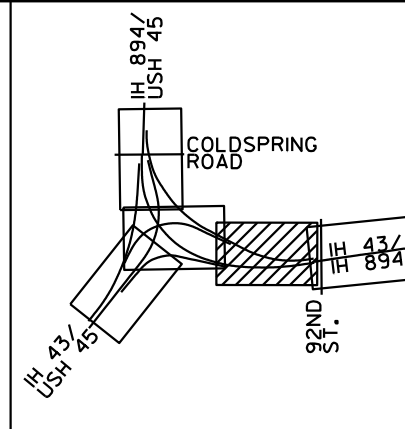
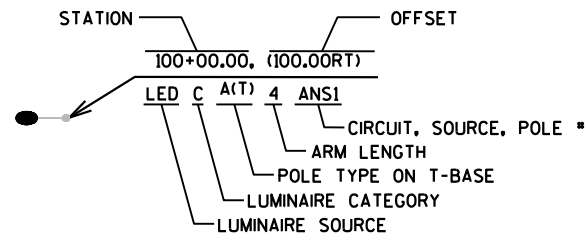
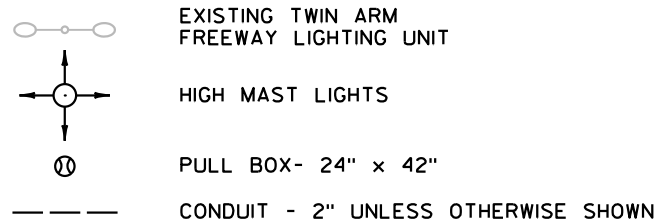
77

WISDOT/CADDS SHEET 42

NOTES:

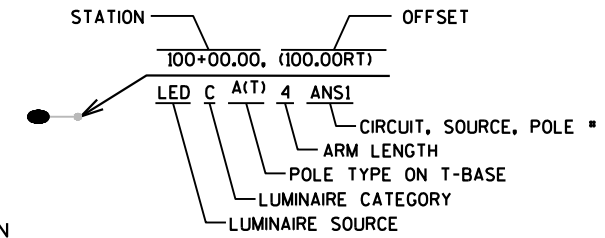
1. ALL NEW HIGH MAST LIGHTING TOWERS ARE APPROXIMATE 20 FT WEST AND 20 FT NORTH OF EXISTING STRUCTURES.
2. REMOVAL OF EXISTING HIGH MAST LIGHTING TOWER AND FOUNDATION WILL BE UNDER CONTRACT I.D. 1000-20-90.
3. INSTALLATION OF PROPOSED HIGH MAST FOUNDATION AND TOWER WILL BE UNDER CONTRACT I.D. 1000-20-90.

LEGEND



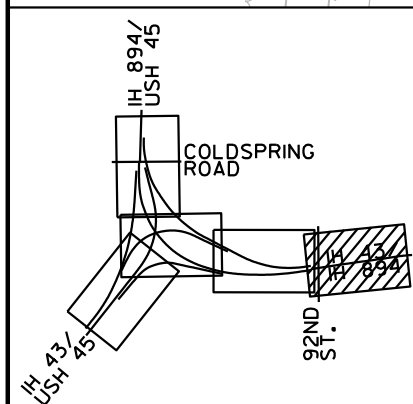
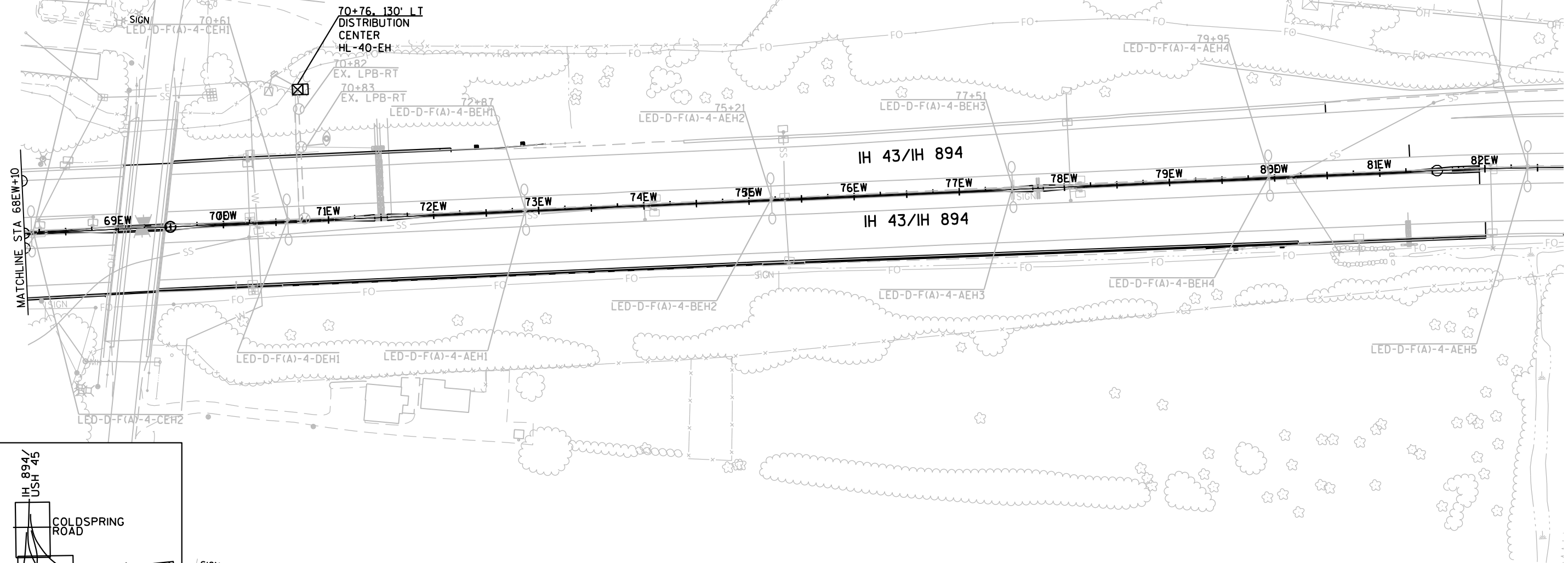
LEGEND

- EXISTING TWIN ARM
FREEWAY LIGHTING UNIT
- UDL (UNDER DECK LIGHTING)
- DISTRIBUTION CENTER
- PULL BOX- 24" x 42"
- CONDUIT - 2" UNLESS OTHERWISE SHOWN



EXISTING CONTROLLER
TO BE MODIFIED

HL-40-EH	
A,C	RED
B,D	BLACK
N	WHITE
GND	GREEN OR BARE
A,B,C,D	30A
240/480VAC 3 WIRE ISOLATED NEUTRAL	



SHEET 9 OF 10

PROJECT NO: 1000-13-71

HWY: IH 894

COUNTY: MILWAUKEE

LIGHTING PLANS - PROPOSED (HL-40-EH)

SHEET

79

E

FILE NAME : W:\PROJECTS\17203.02\05_CADD\CADD SHEETS\023601_LP_MOD_RT 3-5-19.DWG
LAYOUT NAME - 023601_lp(21)-9

PLOT DATE : 4/3/2019 3:07 PM

PLOT BY : WILLIAM NEAVE

PLOT NAME :

PLOT SCALE : 1 IN:100 FT

WISDOT/CADD SHEET 42

LEGEND

EXISTING TWIN ARM
FREEWAY LIGHTING UNIT

UDL (UNDER DECK LIGHTING)



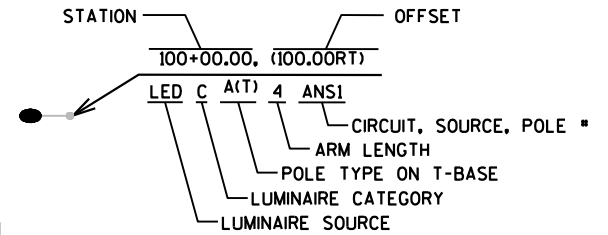
DISTRIBUTION CENTER



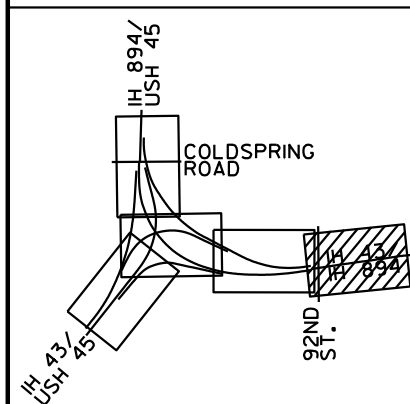
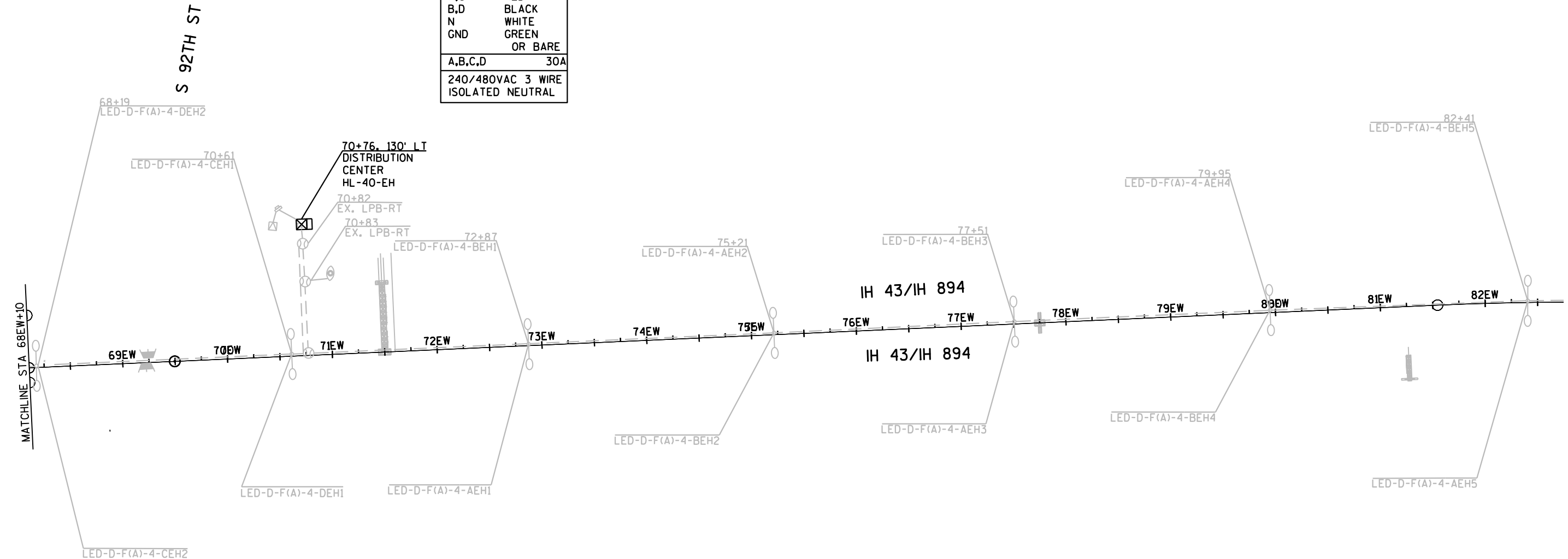
PULL BOX- 24" x 42"



CONDUIT - 2" UNLESS OTHERWISE SHOWN

EXISTING CONTROLLER
TO BE MODIFIED

HL-40-EH	
A,C	RED
B,D	BLACK
N	WHITE
GND	GREEN OR BARE
A,B,C,D	30A
240/480VAC 3 WIRE ISOLATED NEUTRAL	



SHEET 10 OF 10

PROJECT NO: 1000-13-71

HWY: IH 894

COUNTY: MILWAUKEE

LIGHTING PLANS - SCHEMATIC (HL-40-EH)

SHEET

80

E

FILE NAME : W:\PROJECTS\17203.02\05_CADD\CADD SHEETS\023601_LP_MOD_RT 3-5-19.DWG
LAYOUT NAME - 023601_lp(22)-10

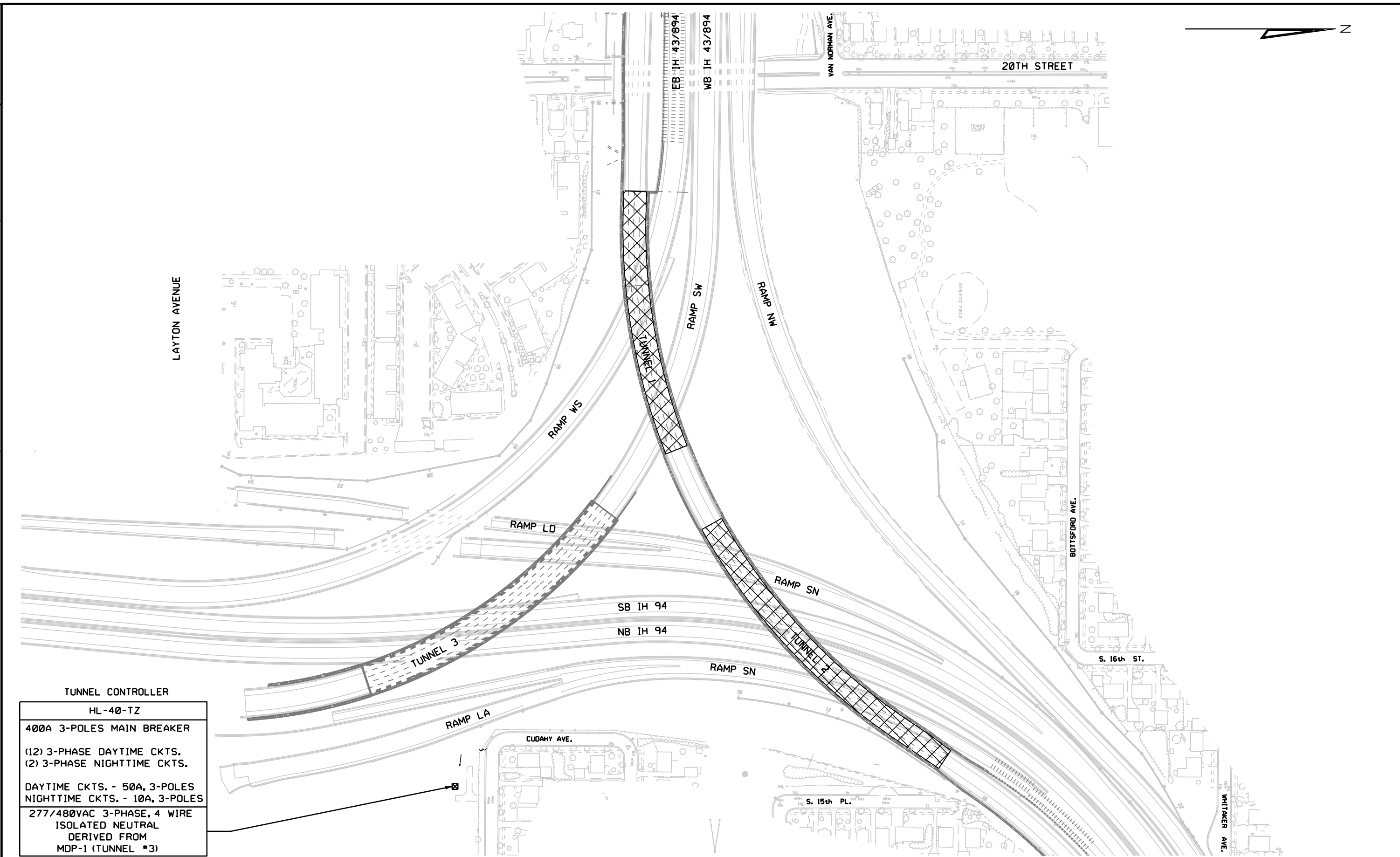
PLOT DATE : 4/3/2019 3:13 PM

PLOT BY : WILLIAM NEAVE

PLOT NAME :

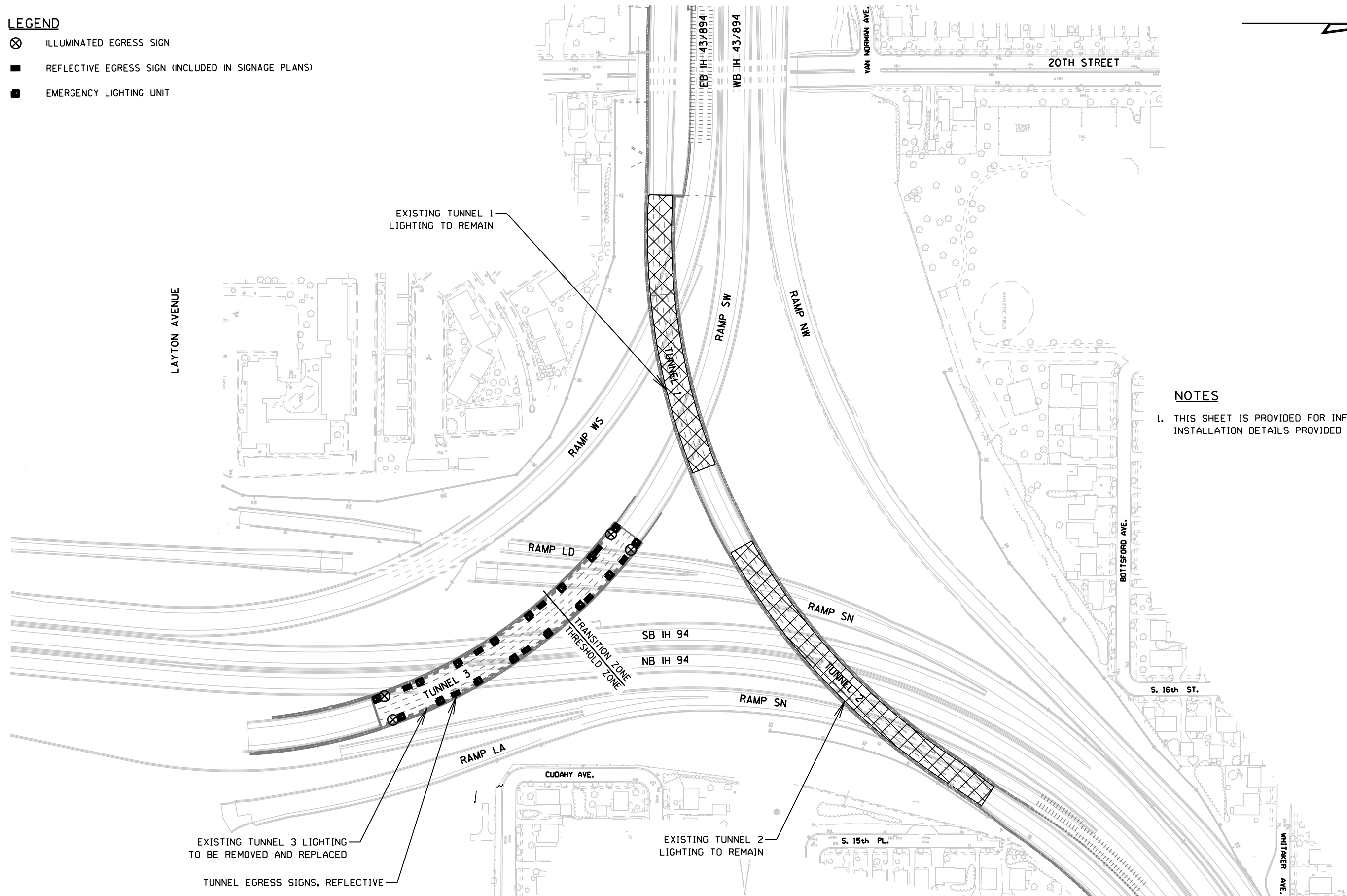
PLOT SCALE : 1 IN:100 FT

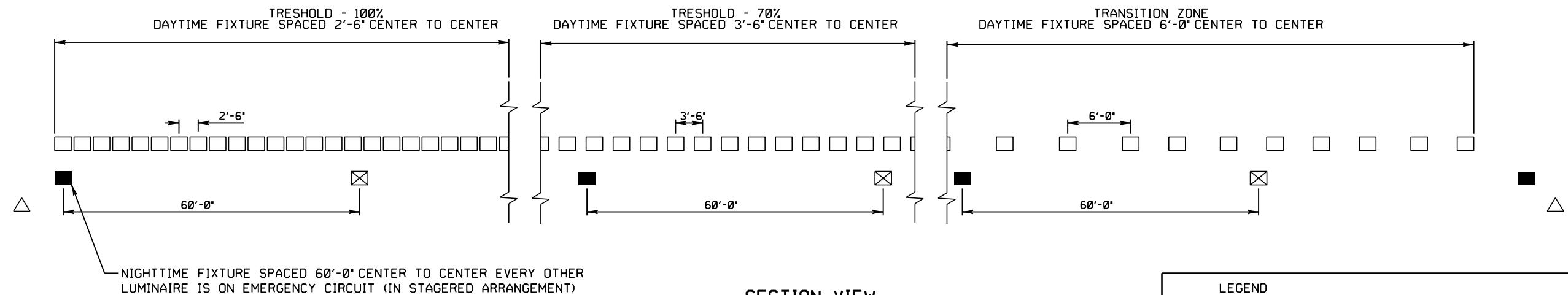
WISDOT/CADD SHEET 42



LEGEND

- ⊗ ILLUMINATED EGRESS SIGN
- REFLECTIVE EGRESS SIGN (INCLUDED IN SIGNAGE PLANS)
- EMERGENCY LIGHTING UNIT



**SECTION VIEW****TUNNEL #3 DETAILS:**

STRUCTURE: B-40-821

S-W RAMP

TUNNEL STARTS AT 341SW+10.00 AND ENDS AT STA. 334SW+55.00.

THREE 12' LANES

INSIDE SHOULDER 13', OUTSIDE SHOULDER 12', ALSO EACH SIDE HAS JERSEY BARRIER 2' IN WIDTH
HEIGHT VARIES, MIN. CLEARANCE IS 17' AS MEASURED AT THE INSIDE EDGE OF THE 12' OUTSIDE SHOULDER

LENGTH OF TUNNEL IS 645'

AVERAGE ANNUAL DAILY TRAFFIC (AADT) IS 51800

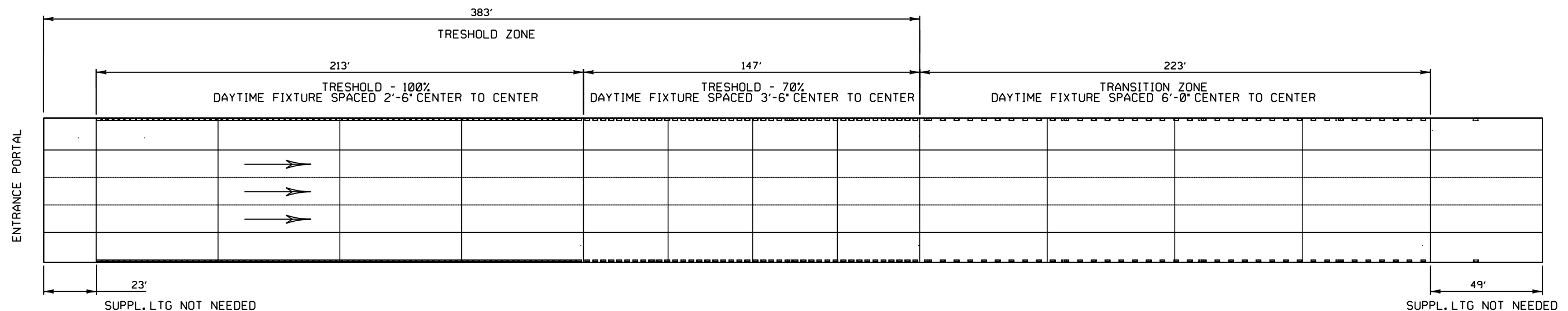
POSTED SPEED LIMIT IS 55MPH

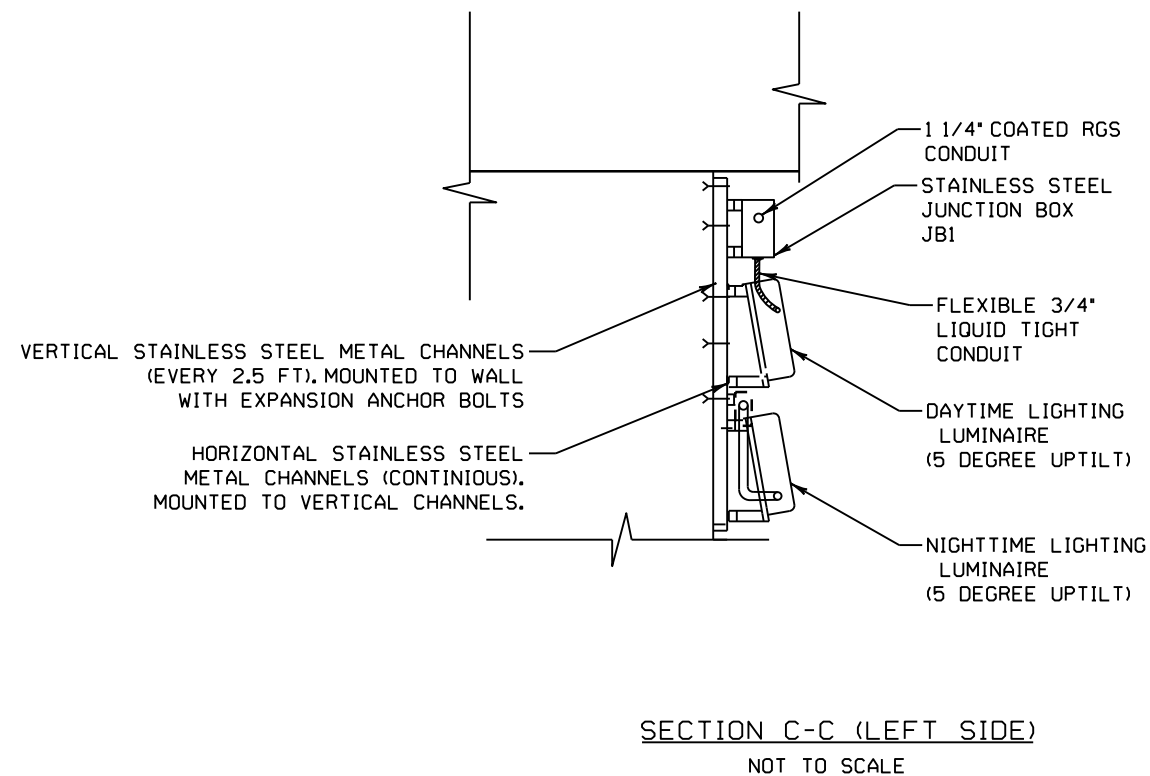
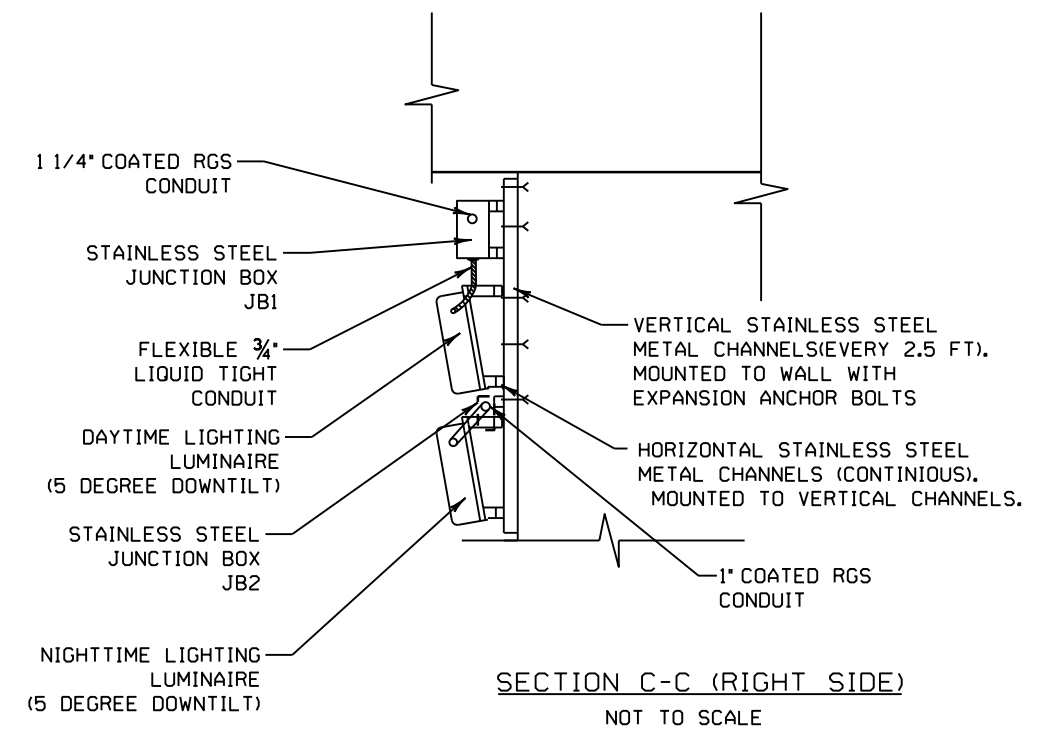
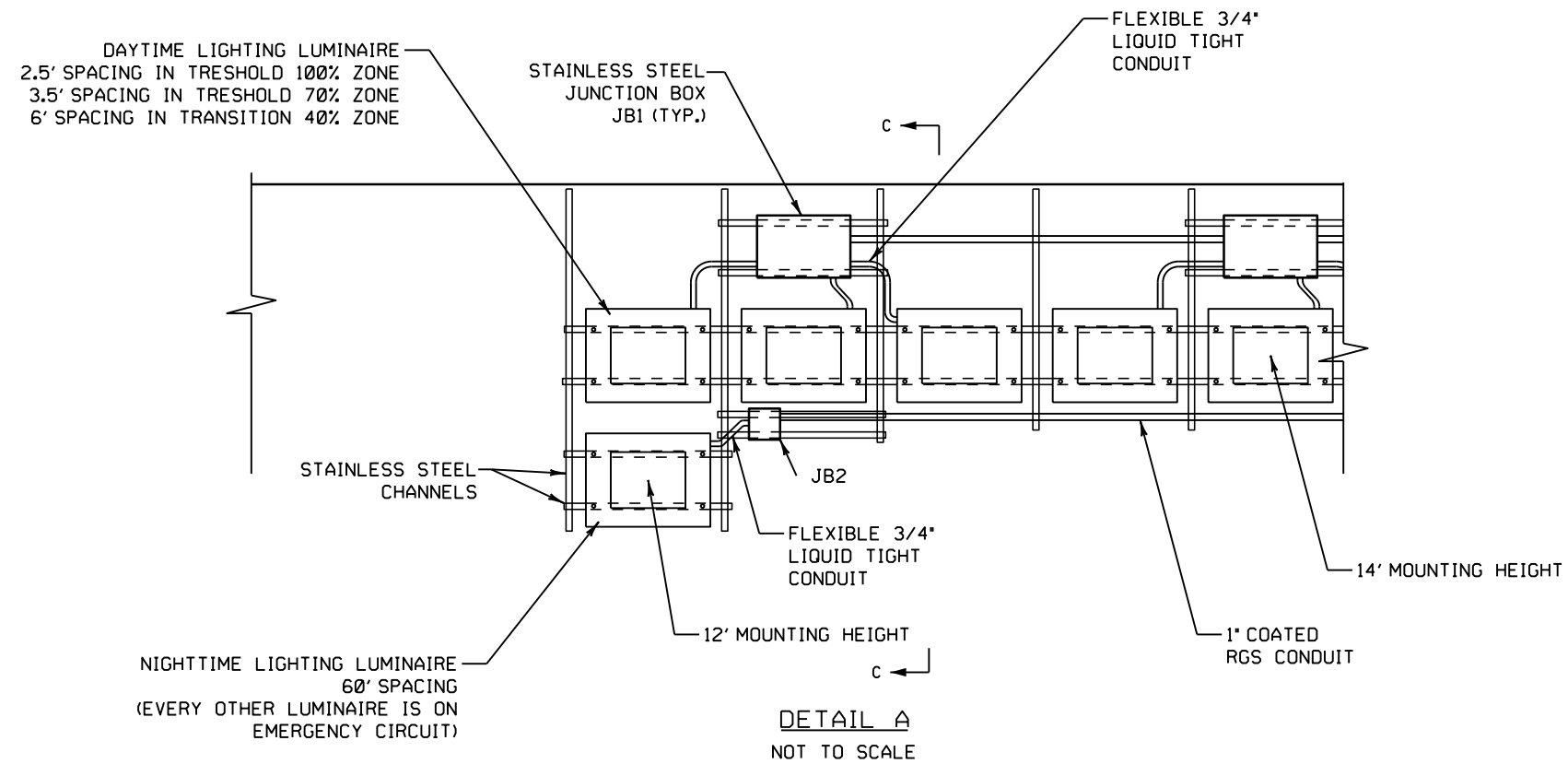
DIRECTION OF TRAFFIC AT TUNNEL PORTAL IS NORTH

PORTAL HEIGHT MIN. 23' (ELEVATION: 702-679)

LEGEND

- DAYTIME FIXTURE, LED, 435W, WALL MOUNTED, 14' MOUNTING HEIGHT, 5° TILT, ONE ROW, TOTAL 328 FIXTURES
- NIGHTTIME FIXTURE, LED, 125W, WALL MOUNTED, 12' MOUNTING HEIGHT, 5° TILT, TOTAL 11 FIXTURES
- ⊗ EMERGENCY/NIGHTTIME FIXTURE, LED 12' MOUNTING HEIGHT, 5° TILT, TOTAL 11 FIXTURES
- △ EXISTING ILLUMINATED EXIT SIGN CONNECTED TO EMERGENCY CIRCUIT

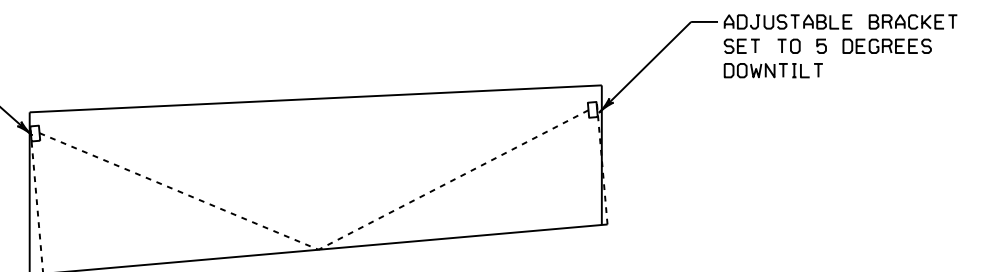
**TUNNEL #3 LIGHTING LAYOUT****DAY TIME LIGHTING**



JUNCTION BOX SCHEDULE

JB1	18" x 12" x 6"
JB2	6" x 6" x 4"

ADJUSTABLE BRACKET
SET TO 5 DEGREES
UPTILT



MOUNTING ANGLE SCHEMATICS

NOT TO SCALE

FIXTURE NO.	POSITION	CKT. NO.	FT TO ENTRANCE
TRESHOLD 100% ZONE			
1	LEFT TOP	A	23.5
2	LEFT TOP	B	26.0
3	LEFT TOP	C	28.5
4	LEFT TOP	A	31.0
5	LEFT TOP	B	33.5
6	LEFT TOP	C	36.0
7	LEFT TOP	A	38.5
8	LEFT TOP	B	41.0
9	LEFT TOP	C	43.5
10	LEFT TOP	A	46.0
11	LEFT TOP	B	48.5
12	LEFT TOP	C	51.0
13	LEFT TOP	A	53.5
14	LEFT TOP	B	56.0
15	LEFT TOP	C	58.5
16	LEFT TOP	A	61.0
17	LEFT TOP	B	63.5
18	LEFT TOP	C	66.0
19	LEFT TOP	A	68.5
20	LEFT TOP	B	71.0
21	LEFT TOP	C	73.5
22	LEFT TOP	A	76.0
23	LEFT TOP	B	78.5
24	LEFT TOP	C	81.0
25	LEFT TOP	A	83.5
26	LEFT TOP	B	86.0
27	LEFT TOP	C	88.5
28	LEFT TOP	A	91.0
29	LEFT TOP	B	93.5
30	LEFT TOP	C	96.0
31	LEFT TOP	A	98.5
32	LEFT TOP	B	101.0
33	LEFT TOP	C	103.5
34	LEFT TOP	A	106.0
35	LEFT TOP	B	108.5
36	LEFT TOP	C	111.0
37	LEFT TOP	A	113.5
38	LEFT TOP	B	116.0
39	LEFT TOP	C	118.5
40	LEFT TOP	A	121.0
41	LEFT TOP	B	123.5
42	LEFT TOP	C	126.0
43	LEFT TOP	A	128.5
44	LEFT TOP	B	131.0
45	LEFT TOP	C	133.5
46	LEFT TOP	A	136.0

FIXTURE NO.	POSITION	CKT. NO.	FT TO ENTRANCE
47	LEFT TOP	B	138.5
48	LEFT TOP	C	141.0
49	LEFT TOP	A	143.5
50	LEFT TOP	B	146.0
51	LEFT TOP	C	148.5
52	LEFT TOP	A	151.0
53	LEFT TOP	B	153.5
54	LEFT TOP	C	156.0
55	LEFT TOP	A	158.5
56	LEFT TOP	B	161.0
57	LEFT TOP	C	163.5
58	LEFT TOP	A	166.0
59	LEFT TOP	B	168.5
60	LEFT TOP	C	171.0
61	LEFT TOP	A	173.5
62	LEFT TOP	B	176.0
63	LEFT TOP	C	178.5
64	LEFT TOP	A	181.0
65	LEFT TOP	B	183.5
66	LEFT TOP	C	186.0
67	LEFT TOP	A	188.5
68	LEFT TOP	B	191.0
69	LEFT TOP	C	193.5
70	LEFT TOP	A	196.0
71	LEFT TOP	B	198.5
72	LEFT TOP	C	201.0
73	LEFT TOP	A	203.5
74	LEFT TOP	B	206.0
75	LEFT TOP	C	208.5
76	LEFT TOP	A	211.0
77	LEFT TOP	B	213.5
78	LEFT TOP	C	216.0
79	LEFT TOP	A	218.5
80	LEFT TOP	B	221.0
81	LEFT TOP	C	223.5
82	LEFT TOP	A	226.0
83	LEFT TOP	B	228.5
84	LEFT TOP	C	231.0
TRESHOLD 70% ZONE			
85	LEFT TOP	D	234.5
86	LEFT TOP	E	238.0
87	LEFT TOP	F	241.5
88	LEFT TOP	D	245.0
89	LEFT TOP	E	248.5
90	LEFT TOP	F	252.0
91	LEFT TOP	D	255.5
92	LEFT TOP	E	259.0

FIXTURE NO.	POSITION	CKT. NO.	FT TO ENTRANCE
93	LEFT TOP	F	262.5
94	LEFT TOP	D	266.0
95	LEFT TOP	E	269.5
96	LEFT TOP	F	273.0
97	LEFT TOP	D	276.5
98	LEFT TOP	E	280.0
99	LEFT TOP	F	283.5
100	LEFT TOP	D	287.0
101	LEFT TOP	E	290.5
102	LEFT TOP	F	294.0
103	LEFT TOP	D	297.5
104	LEFT TOP	E	301.0
105	LEFT TOP	F	304.5
106	LEFT TOP	D	308.0
107	LEFT TOP	E	311.5
108	LEFT TOP	F	315.0
109	LEFT TOP	D	318.5
110	LEFT TOP	E	322.0
111	LEFT TOP	F	325.5
112	LEFT TOP	D	329.0
113	LEFT TOP	E	332.5
114	LEFT TOP	F	336.0
115	LEFT TOP	D	339.5
116	LEFT TOP	E	343.0
117	LEFT TOP	F	346.5
118	LEFT TOP	D	350.0
119	LEFT TOP	E	353.5
120	LEFT TOP	F	357.0
121	LEFT TOP	D	360.5
122	LEFT TOP	E	364.0
123	LEFT TOP	F	367.5
124	LEFT TOP	D	371.0
125	LEFT TOP	E	374.5
126	LEFT TOP	F	378.0
TRANSITION 40% ZONE			
127	LEFT TOP	D	384.0
128	LEFT TOP	E	390.0
129	LEFT TOP	F	396.0
130	LEFT TOP	D	402.0
131	LEFT TOP	E	408.0
132	LEFT TOP	F	414.0
133	LEFT TOP	D	420.0
134	LEFT TOP	E	426.0
135	LEFT TOP	F	432.0
136	LEFT TOP	D	438.0
137	LEFT TOP	E	444.0
138	LEFT TOP	F	450.0

FIXTURE NO.	POSITION	CKT. NO.	FT TO ENTRANCE
139	LEFT TOP	D	456.0
140	LEFT TOP	E	462.0
141	LEFT TOP	F	468.0
142	LEFT TOP	D	474.0
143	LEFT TOP	E	480.0
144	LEFT TOP	F	486.0
145	LEFT TOP	D	492.0
146	LEFT TOP	E	498.0
147	LEFT TOP	F	504.0
148	LEFT TOP	D	510.0
149	LEFT TOP	E	516.0
150	LEFT TOP	F	522.0
151	LEFT TOP	D	528.0
152	LEFT TOP	E	534.0
153	LEFT TOP	F	540.0
154	LEFT TOP	D	546.0
155	LEFT TOP	E	552.0
156	LEFT TOP	F	558.0
157	LEFT TOP	D	564.0
158	LEFT TOP	E	570.0
159	LEFT TOP	F	576.0
160	LEFT TOP	D	582.0
161	LEFT TOP	E	588.0
162	LEFT TOP	F	594.0
163	LEFT TOP	D	600.0
164	LEFT TOP	E	606.0
NIGHTTIME AND EMERGENCY			
329	LEFT BOTTOM	NT1	26.0
330	LEFT BOTTOM	EM1	86.0
331	LEFT BOTTOM	NT1	146.0
332	LEFT BOTTOM	EM1	206.0
333	LEFT BOTTOM	NT1	266.0
334	LEFT BOTTOM	EM1	326.0
335	LEFT BOTTOM	NT1	386.0
336	LEFT BOTTOM	EM1	446.0
337	LEFT BOTTOM	NT1	506.0
338	LEFT BOTTOM	EM1	566.0
339	LEFT BOTTOM	NT1	626.0

FIXTURE NO.	POSITION	CKT. NO.	FT TO ENTRANCE
TRESHOLD 100% ZONE			
165	RIGHT TOP	G	23.5
166	RIGHT TOP	H	26.0
167	RIGHT TOP	J	28.5
168	RIGHT TOP	G	31.0
169	RIGHT TOP	H	33.5
170	RIGHT TOP	J	36.0
171	RIGHT TOP	G	38.5
172	RIGHT TOP	H	41.0
173	RIGHT TOP	J	43.5
174	RIGHT TOP	G	46.0
175	RIGHT TOP	H	48.5
176	RIGHT TOP	J	51.0
177	RIGHT TOP	G	53.5
178	RIGHT TOP	H	56.0
179	RIGHT TOP	J	58.5
180	RIGHT TOP	G	61.0
181	RIGHT TOP	H	63.5
182	RIGHT TOP	J	66.0
183	RIGHT TOP	G	68.5
184	RIGHT TOP	H	71.0
185	RIGHT TOP	J	73.5
186	RIGHT TOP	G	76.0
187	RIGHT TOP	H	78.5
188	RIGHT TOP	J	81.0
189	RIGHT TOP	G	83.5
190	RIGHT TOP	H	86.0
191	RIGHT TOP	J	88.5
192	RIGHT TOP	G	91.0
193	RIGHT TOP	H	93.5
194	RIGHT TOP	J	96.0
195	RIGHT TOP	G	98.5
196	RIGHT TOP	H	101.0
197	RIGHT TOP	J	103.5
198	RIGHT TOP	G	106.0
199	RIGHT TOP	H	108.5
200	RIGHT TOP	J	111.0
201	RIGHT TOP	G	113.5
202	RIGHT TOP	H	116.0
203	RIGHT TOP	J	118.5
204	RIGHT TOP	G	121.0
205	RIGHT TOP	H	123.5
206	RIGHT TOP	J	126.0
207	RIGHT TOP	G	128.5
208	RIGHT TOP	H	131.0
209	RIGHT TOP	J	133.5
210	RIGHT TOP	G	136.0

FIXTURE NO.	POSITION	CKT. NO.	FT TO ENTRANCE
211	RIGHT TOP	H	138.5
212	RIGHT TOP	J	141.0
213	RIGHT TOP	G	143.5
214	RIGHT TOP	H	146.0
215	RIGHT TOP	J	148.5
216	RIGHT TOP	G	151.0
217	RIGHT TOP	H	153.5
218	RIGHT TOP	J	156.0
219	RIGHT TOP	G	158.5
220	RIGHT TOP	H	161.0
221	RIGHT TOP	J	163.5
222	RIGHT TOP	G	166.0
223	RIGHT TOP	H	168.5
224	RIGHT TOP	J	171.0
225	RIGHT TOP	G	173.5
226	RIGHT TOP	H	176.0
227	RIGHT TOP	J	178.5
228	RIGHT TOP	G	181.0
229	RIGHT TOP	H	183.5
230	RIGHT TOP	J	186.0
231	RIGHT TOP	G	188.5
232	RIGHT TOP	H	191.0
233	RIGHT TOP	J	193.5
234	RIGHT TOP	G	196.0
235	RIGHT TOP	H	198.5
236	RIGHT TOP	J	201.0
237	RIGHT TOP	G	203.5
238	RIGHT TOP	H	206.0
239	RIGHT TOP	J	208.5
240	RIGHT TOP	G	211.0
241	RIGHT TOP	H	213.5
242	RIGHT TOP	J	216.0
243	RIGHT TOP	G	218.5
244	RIGHT TOP	H	221.0
245	RIGHT TOP	J	223.5
246	RIGHT TOP	G	226.0
247	RIGHT TOP	H	228.5
248	RIGHT TOP	J	231.0
TRESHOLD 70% ZONE			
249	RIGHT TOP	K	234.5
250	RIGHT TOP	L	238.0
251	RIGHT TOP	M	241.5
252	RIGHT TOP	K	245.0
253	RIGHT TOP	L	248.5
254	RIGHT TOP	M	252.0
255	RIGHT TOP	K	255.5
256	RIGHT TOP	L	259.0

FIXTURE NO.	POSITION	CKT. NO.	FT TO ENTRANCE
257	RIGHT TOP	M	262.5
258	RIGHT TOP	K	266.0
259	RIGHT TOP	L	269.5
260	RIGHT TOP	M	273.0
261	RIGHT TOP	K	276.5
262	RIGHT TOP	L	280.0
263	RIGHT TOP	M	283.5
264	RIGHT TOP	K	287.0
265	RIGHT TOP	L	290.5
266	RIGHT TOP	M	294.0
267	RIGHT TOP	K	297.5
268	RIGHT TOP	L	301.0
269	RIGHT TOP	M	304.5
270	RIGHT TOP	K	308.0
271	RIGHT TOP	L	311.5
272	RIGHT TOP	M	315.0
273	RIGHT TOP	K	318.5
274	RIGHT TOP	L	322.0
275	RIGHT TOP	M	325.5
276	RIGHT TOP	K	329.0
277	RIGHT TOP	L	332.5
278	RIGHT TOP	M	336.0
279	RIGHT TOP	K	339.5
280	RIGHT TOP	L	343.0
281	RIGHT TOP	M	346.5
282	RIGHT TOP	K	350.0
283	RIGHT TOP	L	353.5
284	RIGHT TOP	M	357.0
285	RIGHT TOP	K	360.5
286	RIGHT TOP	L	364.0
287	RIGHT TOP	M	367.5
288	RIGHT TOP	K	371.0
289	RIGHT TOP	L	374.5
290	RIGHT TOP	M	378.0
TRANSITION 40% ZONE			
291	RIGHT TOP	K	384.0
292	RIGHT TOP	L	390.0
293	RIGHT TOP	M	396.0
294	RIGHT TOP	K	402.0
295	RIGHT TOP	L	408.0
296	RIGHT TOP	M	414.0
297	RIGHT TOP	K	420.0
298	RIGHT TOP	L	426.0
299	RIGHT TOP	M	432.0
300	RIGHT TOP	K	438.0
301	RIGHT TOP	L	444.0
302	RIGHT TOP	M	450.0

FIXTURE NO.	POSITION	CKT. NO.	FT TO ENTRANCE
303	RIGHT TOP	K	456.0
304	RIGHT TOP	L	462.0
305	RIGHT TOP	M	468.0
306	RIGHT TOP	K	474.0
307	RIGHT TOP	L	480.0
308	RIGHT TOP	M	486.0
309	RIGHT TOP	K	492.0
310	RIGHT TOP	L	498.0
311	RIGHT TOP	M	504.0
312	RIGHT TOP	K	510.0
313	RIGHT TOP	L	516.0
314	RIGHT TOP	M	522.0
315	RIGHT TOP	K	528.0
316	RIGHT TOP	L	534.0
317	RIGHT TOP	M	540.0
318	RIGHT TOP	K	546.0
319	RIGHT TOP	L	552.0
320	RIGHT TOP	M	558.0
321	RIGHT TOP	K	564.0
322	RIGHT TOP	L	570.0
323	RIGHT TOP	M	576.0
324	RIGHT TOP	K	582.0
325	RIGHT TOP	L	588.0
326	RIGHT TOP	M	594.0
327	RIGHT TOP	K	600.0
328	RIGHT TOP	L	606.0
NIGHTTIME AND EMERGENCY			
340	RIGHT BOTTOM	EM2	26.0
341	RIGHT BOTTOM	NT2	86.0
342	RIGHT BOTTOM	EM2	146.0
343	RIGHT BOTTOM	NT2	206.0
344	RIGHT BOTTOM	EM2	266.0
345	RIGHT BOTTOM	NT2	326.0
346	RIGHT BOTTOM	EM2	386.0
347	RIGHT BOTTOM	NT2	446.0
348	RIGHT BOTTOM	EM2	506.0
349	RIGHT BOTTOM	NT2	566.0
350	RIGHT BOTTOM	EM2	626.0

LEFT WALL		RIGHT WALL	
CIRCUIT #	NUMBER OF FIXTURES ON CIRCUIT	CIRCUIT #	NUMBER OF FIXTURES ON CIRCUIT
A	28	G	28
B	28	H	28
C	28	J	28
D	27	K	27
E	27	L	27
F	26	M	26
NIGHTTIME1 (NT1)	6	NIGHTTIME2 (NT2)	5
EMERGENCY1 (EM1)	5	EMERGENCY2 (EM2)	6

LIGHT METER CONDITION		ILLUMINATION	
SKY CONDITIONS	LIGHT LEVEL (lx)	CIRCUITS ON	NUMBER OF FIXTURES ENERGIZED
BRIGHT/SUNNY	> 10,000	A,B,C,D,E,F,G,H,J,K,L,M,NT1,NT2,EM1,EM2	350
CLEAR, PARTLY CLOUDY	100 -10,000	A,B,D,E,G,H,K,L,NT1,NT2,EM1,EM2	242
MOSTLY CLOUDY, OVERCAST, DAWN/DUSK	1 -100	A,D,G,K,NT1,NT2,EM1,EM2	132
NIGHT	<1	NT1,NT2,EM1,EM2	22
EMERGENCY	ALWAYS ON	EM1,EM2	11

Estimate Of Quantities

1000-13-71

Line	Item	Item Description	Unit	Total	Qty
0002	204.0195	Removing Concrete Bases	EACH	1.000	1.000
0004	204.9060.S	Removing (item description) 01. Distribution Center	EACH	1.000	1.000
0006	204.9060.S	Removing (item description) 02. Luminaires High Mast Lighting	EACH	36.000	36.000
0008	204.9060.S	Removing (item description) 03. Luminaires Utility	EACH	800.000	800.000
0010	204.9060.S	Removing (item description) 04. Luminaires Underdeck Lighting	EACH	20.000	20.000
0012	204.9060.S	Removing (item description) 05. Underdeck Lighting	EACH	13.000	13.000
0014	619.1000	Mobilization	EACH	1.000	1.000
0016	643.0300	Traffic Control Drums	DAY	1,000.000	1,000.000
0018	643.0420	Traffic Control Barricades Type III	DAY	120.000	120.000
0020	643.0705	Traffic Control Warning Lights Type A	DAY	90.000	90.000
0022	643.0715	Traffic Control Warning Lights Type C	DAY	90.000	90.000
0024	643.0800	Traffic Control Arrow Boards	DAY	300.000	300.000
0026	643.0900	Traffic Control Signs	DAY	600.000	600.000
0028	643.1050	Traffic Control Signs PCMS	DAY	90.000	90.000
0030	643.1055.S	Truck or Trailer Mounted Attenuator	DAY	270.000	270.000
0032	643.5000	Traffic Control	EACH	1.000	1.000
0034	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	2,700.000	2,700.000
0036	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	950.000	950.000
0038	652.0615	Conduit Special 3-Inch	LF	3,600.000	3,600.000
0040	653.0164	Pull Boxes Non-Conductive 24x42-Inch	EACH	12.000	12.000
0042	653.0905	Removing Pull Boxes	EACH	10.000	10.000
0044	654.0230	Concrete Control Cabinet Bases Type L30	EACH	1.000	1.000
0046	655.0610	Electrical Wire Lighting 12 AWG	LF	8,000.000	8,000.000
0048	655.0615	Electrical Wire Lighting 10 AWG	LF	44,350.000	44,350.000
0050	655.0620	Electrical Wire Lighting 8 AWG	LF	7,860.000	7,860.000
0052	655.0625	Electrical Wire Lighting 6 AWG	LF	11,340.000	11,340.000
0054	655.0630	Electrical Wire Lighting 4 AWG	LF	12,240.000	12,240.000
0056	655.0635	Electrical Wire Lighting 2 AWG	LF	3,300.000	3,300.000
0058	655.0640	Electrical Wire Lighting 1 AWG	LF	18.000	18.000
0060	655.0645	Electrical Wire Lighting 1/0 AWG	LF	500.000	500.000
0062	656.0400	Electrical Service Main Lugs Only Meter Pedestal (location) 01. HL-40-RT	LS	1.000	1.000
0064	659.0400	Luminaires High Mast Lighting LED	EACH	24.000	24.000
0066	659.0600	Underdeck Lighting (location) 01. Hampton Avenue / IH 41	LS	1.000	1.000
0068	659.0600	Underdeck Lighting (location) 02. IH 41 SB / Silver Spring Drive	LS	1.000	1.000
0070	659.0600	Underdeck Lighting (location) 03. IH 41 NB / Silver Spring Drive	LS	1.000	1.000

Estimate Of Quantities

1000-13-71

Line	Item	Item Description	Unit	Total	Qty
0072	659.0600	Underdeck Lighting (location) 04. Florist Avenue / IH 41	LS	1.000	1.000
0074	659.0600	Underdeck Lighting (location) 05. 76th Street WB / IH 145	LS	1.000	1.000
0076	659.0600	Underdeck Lighting (location) 06. 76th Street EB / IH 145	LS	1.000	1.000
0078	659.0600	Underdeck Lighting (location) 07. Grantosa Drive EB / STH 145	LS	1.000	1.000
0080	659.0600	Underdeck Lighting (location) 08. Grantosa Drive WB / STH 145	LS	1.000	1.000
0082	659.0600	Underdeck Lighting (location) 09. Silver Spring Drive EB / STH 145	LS	1.000	1.000
0084	659.0600	Underdeck Lighting (location) 10. Silver Spring Drive WB / STH 145	LS	1.000	1.000
0086	659.0600	Underdeck Lighting (location) 11. 107th Street / STH 145	LS	1.000	1.000
0088	659.0600	Underdeck Lighting (location) 12. Good Hope Road EB / STH 145	LS	1.000	1.000
0090	659.0600	Underdeck Lighting (location) 13. Good Hope Road WB / STH 145	LS	1.000	1.000
0092	659.1115	Luminaires Utility LED A	EACH	10.000	10.000
0094	659.1125	Luminaires Utility LED C	EACH	241.000	241.000
0096	659.1130	Luminaires Utility LED D	EACH	330.000	330.000
0098	659.1210	Luminaires Underdeck LED B	EACH	54.000	54.000
0100	659.2230	Lighting Control Cabinets 240/480 30-Inch	EACH	1.000	1.000
0102	SPV.0060	Special 01. Distribution Center Preventative Maintenance	EACH	20.000	20.000
0104	SPV.0060	Special 02. Group Luminaire Maintenance Sign Light 175W MV	EACH	5.000	5.000
0106	SPV.0060	Special 03. Group Luminaire Maintenance Sign Light 250W MV	EACH	22.000	22.000
0108	SPV.0060	Special 04. Luminaires Probeam LED	EACH	12.000	12.000
0110	SPV.0060	Special 05. Luminaire Utility 480V LED C	EACH	57.000	57.000
0112	SPV.0060	Special 06. Luminaire Utility 480V LED D	EACH	106.000	106.000
0114	SPV.0060	Special 07. Luminaire Underdeck 480V LED B	EACH	6.000	6.000
0116	SPV.0060	Special 08. Install State Furnished Luminaires Highmast Lighting LED	EACH	42.000	42.000
0118	SPV.0060	Special 09. Plaques Sequence Identification	EACH	190.000	190.000
0120	SPV.0060	Special 10. Light Tower Rat Screen	EACH	19.000	19.000
0122	SPV.0060	Special 11. Fuse Holders	EACH	19.000	19.000
0124	SPV.0060	Special 12. Fuse Type FNQ	EACH	19.000	19.000
0126	SPV.0060	Special 13. Plumbing Light Poles	EACH	38.000	38.000
0128	SPV.0060	Special 14. Luminaire Tunnel Lighting LED (Daytime)	EACH	328.000	328.000

Estimate Of Quantities

1000-13-71

Line	Item	Item Description	Unit	Total	Qty
0130	SPV.0060	Special 15. Luminaire Tunnel Lighting LED (Nighttime)	EACH	22.000	22.000
0132	SPV.0060	Special 16. Junction Boxes Steel 18x12x6 - Inch Coated	EACH	220.000	220.000
0134	SPV.0060	Special 17. Junction Boxes Steel 6x6x4 - Inch Coated	EACH	22.000	22.000
0136	SPV.0090	Special 01. Liquid Tight Flexible Metallic Conduit 3/4 - Inch	LF	2,100.000	2,100.000
0138	SPV.0090	Special 02. Rigid Galvanized Steel Conduit 1-Inch Coated	LF	2,580.000	2,580.000
0140	SPV.0090	Special 03. Rigid Galvanized Steel Conduit 1-1/4 - Inch Coated	LF	2,580.000	2,580.000
0142	SPV.0105	Special 01. Maintenance of Lighting Systems	LS	1.000	1.000
0144	SPV.0105	Special 02. Control System Preventative and Maintenance (HL-40-TZ)	LS	1.000	1.000
0146	SPV.0105	Special 03. Lighting System Integrator	LS	1.000	1.000

WISCONSIN DEPARTMENT OF TRANSPORTATION - SOUTHEAST REGION - WAUKESHA

LIGHTING MAINTENANCE - HIGHWAY LIGHTING DISTRIBUTION CENTERS

CATEGORY	STAGE	SYSTEM / LABEL	FORMAT / DESCRIPTION	MAINTENANCE / FIRST RESPONSE	COUNTY	HIGHWAY	DISTRIBUTION CENTER LOCATION	BRANCH CIRCUIT VOLTAGE	FIELD WARNING METHOD	COMMENTS
0010	1	HL-40-CS	SERVICE	MILW CO / MILW CO	MILWAUKEE	IH 43 / IH 94	IH 94 - COLLEGE AVENUE SOUTHWEST PARK AND RIDE	240 / 480	ISOLATED NEUTRAL	--
		HL-40-CN	SERVICE	MILW CO / MILW CO	MILWAUKEE	IH 43 / IH 94	IH 94 - COLLEGE AVENUE NORTHEAST PARK AND RIDE	240 / 480	ISOLATED NEUTRAL	--
		HL-40-BC	SERVICE	MILW CO / MILW CO	MILWAUKEE	IH 43 / IH 94	1935 S. 4TH STREET - NORTH OF W. BECHER STREET ON IH 43 NB ON RAMP	240 / 480	GROUNDED NEUTRAL	--
		HL-40-GN	SERVICE	MILW CO / MILW CO	MILWAUKEE	IH 43 / IH 94	400 W. GREENFIELD AVENUE - NW CORNER WITH S. 84TH STREET	240 / 480	GROUNDED NEUTRAL	--
		HL-40-GH	SERVICE WITH RAMP GATE	MILW CO / MILW CO	MILWAUKEE	IH 43	GOOD HOPE ROAD - NE CORNER WITH IH 43 NB OFF RAMP	240 / 480	ISOLATED NEUTRAL	DERIVED NB RAMPGATE
		HL-40-TZ	SERVICE WITH DERIVED HUT	MILW CO / MILW CO	MILWAUKEE	MITCHELL	16TH STREET AND CUDAHY AVENUE	480Y / 277	ISOLATED NEUTRAL	TUNNEL #3 (STRUCTURE B-40-821)
		HL-40-EH	SERVICE	MILW CO / MILW CO	MILWAUKEE	IH 894 / IH 41 / IH 43	S. 92ND STREET - NE CORNER WITH IH 894 / IH 43	240 / 480	ISOLATED NEUTRAL	NEW CONTROL CABINET (I.D. 1100-34-70 - NOV 2018)
		HL-40-RT	SERVICE	MILW CO / MILW CO	MILWAUKEE	IH 41 / IH 894	SOUTH OF COLD SPRING ROAD ON IH 41 / IH 894 SB TO БЕЛОIT	240 / 480	ISOLATED NEUTRAL	PROPOSED LIGHTING CABINET
		HL-40-CO	SERVICE	MILW CO / MILW CO	MILWAUKEE	IH 41 / IH 895	W. COLD SPRING ROAD - SE CORNER WITH IH 41 / IH 894	240 / 480	ISOLATED NEUTRAL	NEW CONTROL CABINET (I.D. 1100-34-70 - NOV 2018)
		HL-40-MY	SERVICE	MILW CO / MILW CO	MILWAUKEE	IH 41 / USH 45	MAYFAIR ROAD (STH 100) - SE CORNER ENTRANCE TO CRATE & BARREL STORE	240 / 480	GROUNDED NEUTRAL	--
		HL-40-BS	SERVICE	MILW CO / MILW CO	MILWAUKEE	IH 41 / USH 45	W. BURLEIGH STREET - NE QUADRANT WITH IH 41 / USH 45	480	GROUNDED NEUTRAL	PHASE-PHASE
		HL-40-CC	SERVICE	MILW CO / MILW CO	MILWAUKEE	IH 41 / USH 45	NORTH OF BURLEIGH ROAD ON IH 41 NB	120 / 240	GROUNDED NEUTRAL	--
		HL-40-HM	SERVICE	MILW CO / MILW CO	MILWAUKEE	IH 41 / USH 45	SOUTH OF HAMPTON AVENUE ON IH 41 SB ON RAMP	480	GROUNDED NEUTRAL	PHASE-PHASE
		HL-40-SL	SERVICE	MILW CO / MILW CO	MILWAUKEE	IH 41 / USH 45	W. SILVER SPRING DRIVE - SW QUADRANT WITH IH 41 / USH 45	240 / 480	ISOLATED NEUTRAL	--
		HL-40-CM	SERVICE	MILW CO / MILW CO	MILWAUKEE	IH 41 / USH 45	W. CARMEN AVENUE - SW QUADRANT WITH IH 41 / USH 45	480	GROUNDED NEUTRAL	PHASE-PHASE
		HL-40-RA	SERVICE	MILW CO / MILW CO	MILWAUKEE	STH 145	W. GRANTOSA DRIVE - NE QUADRANT WITH STH 145	240 / 480	GROUNDED NEUTRAL	--
		HL-40-SP	SERVICE	MILW CO / MILW CO	MILWAUKEE	STH 145	W. SILVER SPRING DRIVE - SE QUADRANT WITH STH 145	240 / 480	GROUNDED NEUTRAL	--
		HL-40-KA	SERVICE	MILW CO / MILW CO	MILWAUKEE	STH 145	W. LYNX AVENUE - SW QUADRANT WITH N. 89TH STREET	240 / 480	GROUNDED NEUTRAL	--
		HL-40-TE	SERVICE	MILW CO / MILW CO	MILWAUKEE	STH 145	MENOMONEE RIVER PARKWAY - NE QUADRANT WITH STH 145	240 / 480	GROUNDED NEUTRAL	--
		HL-40-EG	SERVICE	MILW CO / MILW CO	MILWAUKEE	STH 145	N. 107TH STREET - NW QUADRANT WITH STH 145	240 / 480	GROUNDED NEUTRAL	--

LIGHTING - REMOVALS

204.0195 REMOVING CONCRETE BASES
204.9060.S.01 REMOVING DISTRIBUTION CENTER
653.0905 REMOVING PULL BOXES

CATEGORY	STAGE	SYSTEM	DESCRIPTION / SEQUENCE	LOCATION STATION	OFFSET	204.0195 REMOVING CONCRETE BASES	204.9060.S.01 REMOVING DISTRIBUTION CENTER	653.0905 REMOVING PULL BOXES	COMMENTS		
						EACH	EACH	EACH			
0010	1	HL-40-EH	HML-40-034	58RNE+14	77' LT	--	--	--	SEE I.D. 1000-20-90 (HIGH MAST LIGHTING REMOVALS)		
			EX LPB-EH-03	58RNE+35	63' LT	--	--	1			
			EX LPB-EH-02	59RNE+91	74' LT	--	--	1			
		HL-40-EH	SUBTOTAL		0	0	2				
		HL-40-RT	HML-40-039	197RES+60	59' RT	--	--	--	SEE I.D. 1000-20-90 (HIGH MAST LIGHTING REMOVALS)		
			EX LPB-RT-07	201RSN+79	32' LT	--	--	1	--		
			EX LPB-RT-06	207RSN+22	13' LT	--	--	1	--		
			HML-40-036	207RSN+45	148' RT	--	--	--	SEE I.D. 1000-20-90 (HIGH MAST LIGHTING REMOVALS)		
			EX LPB-RT-05	204RES+96	15' RT	--	--	1	--		
			HML-40-035	49RNE+60	186' LT	--	--	--	SEE I.D. 1000-20-90 (HIGH MAST LIGHTING REMOVALS)		
			EX LPB-RT-08	213RES+00	29' RT	--	--	1	--		
			EX LPB-RT-04	205RES+01	35' LT	--	--	1	--		
			EX LPB-RT-09	209RES+26	40' LT	--	--	1	--		
			EX LPB-RT-03	39RNS+73	175' LT	--	--	1	--		
			HML-40-040	39RNE+39	114' RT	--	--	--	SEE I.D. 1000-20-90 (HIGH MAST LIGHTING REMOVALS)		
			EX LPB-RT-02	39RNS+51	42' LT	--	--	1	--		
			HL-40-RT	39RNS+37	38' LT	1	1	--	--		
			HML-40-037	39RENA+17	122' RT	--	--	--	SEE I.D. 1000-20-90 (HIGH MAST LIGHTING REMOVALS)		
		HL-40-RT	SUBTOTAL		1	1	8				
		HL-40-CO	HML-40-038	218RSN+67	82' LT	--	--	--	SEE I.D. 1000-20-90 (HIGH MAST LIGHTING REMOVALS)		
		HL-40-CO	SUBTOTAL		0	0	0				
0010	TOTALS				1	1	10				

LIGHTING MAINTENANCE - MOBILIZATION

619.1000 MOBILIZATION

CATEGORY	STAGE	DESCRIPTION / LOCATION	619.1000 MOBILIZATION	COMMENTS
			EACH	
0010	1	PROJECT I.D. 1000-13-71	1	--
0010		TOTAL	1	

LIGHTING MAINTENANCE - WORK ZONE TRAFFIC CONTROL

- 643.0300 TRAFFIC CONTROL DRUMS ***
- 643.0420 TRAFFIC CONTROL BARRICADES TYPE III
- 643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A
- 643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C
- 643.0800 TRAFFIC CONTROL ARROWBOARDS
- 643.0900 TRAFFIC CONTROL SIGNS
- 643.1050 TRAFFIC CONTROL SIGNS PCMS
- 643.1055.S TRUCK OR TRAILER-MOUNTED ATTENUATOR
- 643.5000 TRAFFIC CONTROL

CATEGORY	STAGE	DESCRIPTION / LOCATION	643.0300 TRAFFIC CONTROL DRUMS	643.0420 TRAFFIC CONTROL BARRICADES TYPE III	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C	643.0800 TRAFFIC CONTROL ARROW BOARDS	643.0900 TRAFFIC CONTROL SIGNS	643.1050 TRAFFIC CONTROL SIGNS PCMS	643.1055.S TRUCK OR TRAILER - MOUNTED ATTENUATOR	643.5000 TRAFFIC CONTROL	COMMENTS
			DAY	DAY	DAY	DAY	DAY	DAY	DAY	DAY	EACH	
0010	1	PROJECT I.D. 1000-13-71	1000	120	90	90	300	600	90	270	1	--
0010		TOTAL	1,000	120	90	90	300	600	90	270	1	

*** APPROVED TRAFFIC CONES WILL BE ACCEPTED FOR THIS ITEM FOR SHORT-TERM DAYTIME
WORK, BUT WILL NOT BE MEASURED FOR PAYMENT.
SEE THE SPECIAL PROVISIONS.

LIGHTING - CONDUIT AND WIRE

- 652.0225
- CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH
- 652.0235
- CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH
- 652.0615
- CONDUIT SPECIAL 3-INCH
- 655.0620
- ELECTRICAL WIRE LIGHTING 8 AWG
- 655.0625
- ELECTRICAL WIRE LIGHTING 6 AWG
- 655.0630
- ELECTRICAL WIRE LIGHTING 4 AWG
- 655.0635
- ELECTRICAL WIRE LIGHTING 2 AWG

CATEGORY	STAGE	SYSTEM	CIRCUIT	LOCATION		652.0225 CONDUIT 2-INCH SCHEDULE 40	652.0235 CONDUIT 3-INCH SCHEDULE 40	652.0615 CONDUIT SPECIAL 3-INCH	655.0620 ELECTRICAL WIRE LIGHTING 8 AWG	655.0625 ELECTRICAL WIRE LIGHTING 6 AWG	655.0630 ELECTRICAL WIRE LIGHTING 4 AWG	655.0635 ELECTRICAL WIRE LIGHTING 2 AWG	COMMENTS
				FROM	TO	LF	LF	LF	LF	LF	LF	LF	
0010	1	HL-40-EH	E/N/F/GND	HL-40-EH	LPB-EH-01	--	200	400	1,480	4,440	--	--	INTERCEPT EXISTING CONDUIT
				LPB-EH-01	L-40-123	100	--	--	100	300	--	--	--
				L-40-123	L-40-123	--	--	--	--	900	--	--	HIGH MAST LIGHTING WIRE
			G/N/H/GND	HL-40-EH	LPB-EH-01	--	--	--	1,480	--	4,440	--	--
				LPB-EH-01	LPB-EH-02	--	200	400	800	--	2,400	--	--
				LPB-EH-02	L-40-124	100	--	--	100	--	300	--	--
				L-40-124	L-40-124	--	--	--	--	900	--	--	HIGH MAST LIGHTING WIRE
			SUBTOTAL			200	400	800	3,960	6,540	7,140	0	
		HL-40-RT	A/N/B/GND	METER PEDESTAL	HL-40-RT	--	--	200	--	--	--	--	POWER CABLE CONDUIT
				HL-40-RT	LPB-RT-01	--	50	--	50	150	--	--	--
				LPB-RT-01	L-40-129	--	50	50	50	150	--	--	--
			C/N/D/GND	L-40-129	L-40-129	--	--	--	--	900	--	--	HIGH MAST LIGHTING WIRE
				HL-40-RT	LPB-RT-01	--	50	--	50	--	150	--	--
				LPB-RT-01	LPB-RT-02	--	--	100	100	--	300	--	--
				LPB-RT-02	LPB-RT-03	--	--	100	100	--	300	--	--
				LPB-RT-03	LPB-RT-04	--	--	100	100	--	300	--	--
				LPB-RT-04	L-40-126	150	--	--	150	--	450	--	--
			E/N/F/GND	L-40-126	L-40-126	--	--	--	--	900	--	--	HIGH MAST LIGHTING WIRE
				HL-40-RT	LPB-RT-01	--	50	--	50	--	150	--	--
				LPB-RT-01	LPB-RT-05	--	--	200	200	--	600	--	--
			G/N/H/GND	LPB-RT-05	LPB-RT-10	--	--	450	--	--	--	--	EMPTY CONDUIT
				LPB-RT-05	LPB-RT-06	--	--	100	100	--	300	--	--
				LPB-RT-06	LPB-RT-07	--	--	100	100	--	300	--	--
			G/N/H/GND	LPB-RT-07	LPB-RT-08	--	--	100	100	--	300	--	--
				LPB-RT-08	L-40-125	100	--	--	100	--	300	--	--
				L-40-125	L-40-125	--	--	--	--	900	--	--	HIGH MAST LIGHTING WIRE
			G/N/H/GND	HL-40-RT	LPB-RT-01	--	--	--	50	--	--	150	--
				LPB-RT-01	LPB-RT-05	--	--	--	200	--	--	600	--
				LPB-RT-05	LPB-RT-06	--	--	--	100	--	--	300	--
			G/N/H/GND	LPB-RT-06	LPB-RT-07	--	--	--	100	--	--	300	--
				LPB-RT-07	LPB-RT-09	--	--	500	500	--	--	1,500	--
				LPB-RT-09	L-40-128	--	150	--	150	--	--	450	--
			G/N/H/GND	L-40-128	L-40-128	--	--	--	--	900	--	--	HIGH MAST LIGHTING WIRE
				L-40-128	LPB-RT-09	--	--	--	--	--	--	--	EMPTY CONDUIT
				LPB-RT-09	S-40-021	250	--	--	1,000	--	--	--	SIGN LIGHTING (2MV-G / H / RT)
			SUBTOTAL			500	350	1,800	3,350	3,900	3,450	3,300	
		HL-40-CO		HL-40-CO	EX LPB-CO-03	--	--	--	350	--	1,050	--	--
				LPB-CO-03	L-40-127	--	200	200	200	--	600	--	--
				L-40-127	L-40-127	--	--	--	--	900	--	--	HIGH MAST LIGHTING WIRE
				EX LPB-CO-03	LPB-RT-03	--	--	800	--	--	--	--	EMPTY CONDUIT
			SUBTOTAL			0	200	1,000	550	900	1,650	0	
0010				TOTALS		700	950	3,600	7,860	11,340	12,240	3,300	

LIGHTING - PULL BOXES

653.0164 PULL BOXES NON-CONDUCTIVE 24X42-INCH

CATEGORY	STAGE	SYSTEM	DESCRIPTION / SEQUENCE	LOCATION STATION	OFFSET	653.0164 PULL BOXES NON-CONDUCTIVE 24x42-INCH EACH	COMMENTS	
0010	1	HL-40-EH	LPB-EH-01	58RNE+61	133' LT	1	--	
			LPB-EH-02	50RNE+17	237' LT	1	--	
		HL-40-EH					2	
		HL-40-RT	LPB-RT-01	39RNS+27	110' LT	1	--	
			LPB-RT-02	39RNS+21	217' LT	1	--	
			LPB-RT-03	211RSN+82	57' LT	1	--	
			LPB-RT-04	211RSN+99	45' RT	1	--	
			LPB-RT-05	204RES+77	42' LT	1	--	
			LPB-RT-06	204RES+81	23' RT	1		
			LPB-RT-07	207RSN+19	25' LT	1	--	
			LPB-RT-08	207RSN+31	57' RT	1	--	
			LPB-RT-09	202RSN+01	27' LT	1	--	
			LPB-RT-10	209RES+26	40' LT	1	--	
		HL-40-RT					10	
		HL-40-CO	EX. LPB-CO-03	219RSN+71	21' LT	--	EXISTING TO REMAIN	
		HL-40-CO					0	
		TOTALS					12	

LIGHTING - CONTROL AND SERVICES
240/480 VAC 3-WIRE

- 654.0230 CONCRETE CONTROL CABINET BASES TYPE L30
- 655.0640 ELECTRICAL WIRE LIGHTING 1 AWG
- 655.0645 ELECTRICAL WIRE LIGHTING 1/0 AWG
- 656.0400.01 ELECTRICAL SERVICE MAIN LUGS ONLY METER PEDESTAL (HL-40-RT)
- 659.2230 LIGHTING CONTROL CABINETS 240/480 30-INCH
- SPV.0105.01 MAINTENANCE OF LIGHTING SYSTEMS
- SPV.0105.02 DISTRIBUTION CENTER PREVENTIVE AND MAINTENANCE (HL-40-TZ)
- SPV.0105.03 LIGHTING SYSTEM INTEGRATOR (1000-13-71)

CATEGORY	STAGE	DESCRIPTION / SEQUENCE	LOCATION STATION	OFFSET	654.0230 CONCRETE CONTROL CABINET BASES TYPE L30	655.0640 ELECTRICAL WIRE LIGHTING 1 AWG	655.0645 ELECTRICAL WIRE LIGHTING 1/0 AWG	656.0400.01 ELECTRICAL SERVICE MAIN LUGS ONLY METER PEDESTAL (HL-40-RT)	659.2230 LIGHTING CONTROL CABINETS 240/480 30-INCH	SPV.0105.01 MAINTENANCE OF LIGHTING SYSTEMS	SPV.0105.02 CONTROL SYSTEM PREVENTIVE AND MAINTENANCE (HL-40-TZ)	SPV.0105.03 LIGHTING SYSTEM INTEGRATOR (1000-13-71)	COMMENTS
					EACH	LF	LF	LS	EACH	LS	LS	LS	
0010	1	HL-40-RT	39RNS+37	38' LT	1	18	--	1	1	--	--	--	SOUTH OF COLD SPRING ROAD ON IH 41 / IH 894 SB TO BELOIT
			METER PEDESTAL	HL-40-RT	--	--	500	--	--	--	--	--	--
		HL-40-TZ	--	--	--	--	--	--	--	--	1	--	16TH STREET AND CUDAHY AVENUE
		HL-40-RT / CO / EH / TZ	--	--	--	--	--	--	--	1	--	--	CABINET HL40-RT, HL-40-CO, HL40-EH AND HL-40-TZ
			--	--	--	--	--	--	--	--	--	1	PROJECT
0010				TOTAL	1	18	500	1	1	1	1	1	

PLAQUE TEXT LIGHTING CONTROL
ROOT RIVER
2 - 480 VAC WARNING (2 REQUIRED PER LOCATION; METER PEDESTAL AND CABINET DOOR)

LIGHTING MAINTENANCE - RETROFIT SUMMARY

- 204.9060.S.02 REMOVING LUMINAIRES HIGH MAST LIGHTING
- 204.9060.S.03 REMOVING LUMINAIRES UTILITY
- 204.9060.S.04 REMOVING LUMINAIRES UNDERDECK LIGHTING
- 204.9060.S.05 REMOVING UNDERDECK LIGHTING
- 659.0400 LUMINAIRE HIGH MAST LIGHTING LED
- 659.1115 LUMINAIRES UTILITY LED A
- 659.1125 LUMINAIRES UTILITY LED C
- 659.1130 LUMINAIRES UTILITY LED D
- 659.1210 LUMINAIRES UNDERDECK LED B
- SPV.0060.02 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 175 MV
- SPV.0060.03 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 250 MV
- SPV.0060.04 LUMINAIRES PROBEAM LED
- SPV.0060.05 LUMINAIRES UTILITY 480V LED C
- SPV.0060.06 LUMINAIRES UTILITY 480V LED D
- SPV.0060.07 LUMINAIRES UNDERDECK 480V LED B
- SPV.0060.08 INSTALL STATE FURNISHED LUMNAIRE HIGH MAST LIGHTING LED

CATEGORY	STAGE	SYSTEM/ LABEL	HIGHWAY	204.9060.S.02 REMOVING LUMINAIRES HIGH MAST LIGHTING	204.9060.S.03 REMOVING LUMINAIRES UTILITY	204.9060.S.04 REMOVING LUMINAIRES UNDERDECK LIGHTING	204.9060.S.05 REMOVING UNDERDECK LIGHTING	659.0400 LUMINAIRE HIGH MAST LIGHTING LED	659.1115 LUMINAIRES UTILITY LED A	659.1125 LUMINAIRES UTILITY LED C	659.1130 LUMINAIRES UTILITY LED D	659.1210 LUMINAIRES UNDERDECK LED B	SPV.0060.02 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 175 MV	SPV.0060.03 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 250 MV	SPV.0060.04 LUMINAIRES PROBEAM LED	SPV.0060.05 LUMINAIRES UTILITY 480V LED C	SPV.0060.06 LUMINAIRES UTILITY 480V LED D	SPV.0060.07 LUMINAIRES UNDERDECK 480V LED B	SPV.0060.08 INSTALL STATE FURNISHED LUMNAIRE HIGH MAST LIGHTING LED
				EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
0010	1	HL-40-CS	IH 94	0	47	12	0	0	0	27	20	0	0	0	12	0	0	0	0
		HL-40-CN	IH 94	0	55	0	0	0	0	38	17	0	0	0	0	0	0	0	0
		HL-40-BC	IH 43 / IH 94	24	4	0	0	24	0	0	4	0	0	2	0	0	0	0	0
		HL-40-GN	IH 43 / IH 94	12	23	0	0	0	0	0	11	0	0	5	0	0	0	0	0
		HL-40-GH	IH 43	0	47	8	0	0	0	16	31	8	0	0	0	0	0	0	0
		HL-40-TZ*	IH 43 / IH894	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		HL-40-EH	IH 894 / IH 41 / IH 43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
		HL-40-RT	IH 41 / IH 894	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	24
		HL-40-CO	IH 41 / IH 894	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6
		HL-40-MY	IH 41 / USH 45	0	36	0	0	0	0	18	18	0	0	0	0	0	0	0	0
		HL-40-BS	IH 41 / USH 45	0	56	0	0	0	0	0	0	0	0	2	0	22	34	0	0
		HL-40-CC	IH 41 / USH 45	0	20	0	0	0	0	0	20	0	0	0	0	0	0	0	0
		HL-40-HM	IH 41 / USH 45	0	70	0	1	0	0	0	0	0	0	0	0	24	46	4	0
		HL-40-SL	IH 41 / USH 45	0	51	0	2	0	0	21	22	8	0	0	0	0	0	0	0
		HL-40-CM	IH 41 / USH 45	0	39	0	1	0	0	0	0	0	0	0	0	11	26	2	0
		HL-40-EG	STH 145	0	82	0	3	0	0	34	38	10	2	3	0	0	0	0	0
		HL-40-TE	STH 145	0	48	0	0	0	0	11	37	0	0	2	0	0	0	0	0
		HL-40-KA	STH 145	0	47	0	0	0	0	10	37	0	0	2	0	0	0	0	0
		HL-40-SP	STH 145	0	71	0	2	0	0	32	31	8	0	4	0	0	0	0	0
		HL-40-RA	STH 145	0	98	0	4	0	0	34	44	20	3	0	0	0	0	0	0
		UNDISTRIBUTED	--	--	--	--	--	--	--	10	--	--	--	--	--	--	--	--	--
0010		TOTAL		36	800	20	13	24	0	241	330	54	5	22	12	57	106	6	42

*SEE TUNNEL LIGHTING

LIGHTING MAINTENANCE - HL-40-CS
240/480 VAC 3-WIRE ISOLATED NEUTRAL

204.9060.S.02 REMOVING LUMINAIRES HIGH MAST LIGHTING
204.9060.S.03 REMOVING LUMINAIRES UTILITY
204.9060.S.04 REMOVING LUMINAIRES UNDERDECK LIGHTING
204.9060.S.05 REMOVING UNDERDECK LIGHTING
659.0400 LUMINAIRE HIGH MAST LIGHTING LED
659.1115 LUMINAIRES UTILITY LED A
659.1125 LUMINAIRES UTILITY LED C
659.1130 LUMINAIRES UTILITY LED D
659.1210 LUMINAIRES UNDERDECK LED B
SPV.0060.02 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 175 MV
SPV.0060.03 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 250 MV
SPV.0060.04 LUMINAIRES PROBEAM LED
SPV.0060.05 LUMINAIRES UTILITY 480V LED C
SPV.0060.06 LUMINAIRES UTILITY 480V LED D
SPV.0060.07 LUMINAIRES UNDERDECK 480V LED B
SPV.0060.08 INSTALL STATE FURNISHED LUMINAIRE HIGH MAST LIGHTING LED

CATEGORY	STAGE	SYSTEM	DESCRIPTION / SEQUENCE	204.9060.S.02 REMOVING LUMINAIRES HIGH MAST LIGHTING	204.9060.S.03 REMOVING LUMINAIRES UTILITY	204.9060.S.04 REMOVING LUMINAIRES UNDERDECK LIGHTING	204.9060.S.05 REMOVING UNDERDECK LIGHTING	659.0400 LUMINAIRE HIGH MAST LIGHTING LED	659.1115 LUMINAIRES UTILITY LED A	659.1125 LUMINAIRES UTILITY LED C	659.1130 LUMINAIRES UTILITY LED D	659.1210 LUMINAIRES UNDERDECK LED B	SPV.0060.02 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 175 MV	SPV.0060.03 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 250 MV	SPV.0060.04 LUMINAIRES PROBEAM LED	SPV.0060.05 LUMINAIRES UTILITY 480V LED C	SPV.0060.06 LUMINAIRES UTILITY 480V LED D	SPV.0060.07 LUMINAIRES UNDERDECK 480V LED B	SPV.0060.08 INSTALL STATE FURNISHED LUMINAIRE HIGH MAST LIGHTING LED	COMMENTS
				EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	
0010	1	HL-40-CS	ACS1/BCS1 (S-40-435)	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	SIGN STRUCTURE EXTENSION
			ACS2/BCS2	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--
			ACS3/BCS3	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--
			ACS4/BCS4	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--
			ACS5	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	PROPOSED PLAQUE
			BCS5	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"
			ACS6	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"
			BCS6	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"
			ACS7	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"
			BCS7	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	PROPOSED PLAQUE
			CCS1/DCS1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	MISSING (FREEWAY XOVER AREA)
			CCS2/DCS2	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--
			CCS3/DCS3	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--
			CCS4/DCS4	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--
			CCS5/DCS5	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--
			CCS6/DCS6	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--
			JCS1	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
			KCS1	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
			JCS2	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
			KCS2	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
			SUBTOTAL	0	28	0	0	0	0	9	19	0	0	0	0	0	0	0	0	

LIGHTING MAINTENANCE - HL-40-CS CONTINUED
240/480 VAC 3-WIRE ISOLATED NEUTRAL

204.9060.S.02 REMOVING LUMINAIRES HIGH MAST LIGHTING
204.9060.S.03 REMOVING LUMINAIRES UTILITY
204.9060.S.04 REMOVING LUMINAIRES UNDERDECK LIGHTING
204.9060.S.05 REMOVING UNDERDECK LIGHTING
659.0400 LUMNAIRE HIGH MAST LIGHTING LED
659.1115 LUMNAIRES UTILITY LED A
659.1125 LUMNAIRES UTILITY LED C
659.1130 LUMNAIRES UTILITY LED D
659.1210 LUMNAIRES UNDERDECK LED B
SPV.0060.02 GROUP LUMNAIRE MAINTENANCE SIGN LIGHT 175 MV
SPV.0060.03 GROUP LUMNAIRE MAINTENANCE SIGN LIGHT 250 MV
SPV.0060.04 LUMNAIRES PROBEAM LED
SPV.0060.05 LUMNAIRES UTILITY 480V LED C
SPV.0060.06 LUMNAIRES UTILITY 480V LED D
SPV.0060.07 LUMNAIRES UNDERDECK 480V LED B
SPV.0060.08 INSTALL STATE FURNISHED LUMNAIRE HIGH MAST LIGHTING LED

CATEGORY	STAGE	SYSTEM	DESCRIPTION / SEQUENCE	204.9060.S.02 REMOVING LUMNAIRES HIGH MAST LIGHTING	204.9060.S.03 REMOVING LUMNAIRES UTILITY	204.9060.S.04 REMOVING LUMNAIRES UNDERDECK LIGHTING	204.9060.S.05 REMOVING UNDERDECK LIGHTING	659.0400 LUMNAIRE HIGH MAST LIGHTING LED	659.1115 LUMNAIRES UTILITY LED A	659.1125 LUMNAIRES UTILITY LED C	659.1130 LUMNAIRES UTILITY LED D	659.1210 LUMNAIRES UNDERDECK LED B	SPV.0060.02 GROUP LUMNAIRE MAINTENANCE SIGN LIGHT 175 MV	SPV.0060.03 GROUP LUMNAIRE MAINTENANCE SIGN LIGHT 250 MV	SPV.0060.04 LUMNAIRES PROBEAM LED	SPV.0060.05 LUMNAIRES UTILITY 480V LED C	SPV.0060.06 LUMNAIRES UTILITY 480V LED D	SPV.0060.07 LUMNAIRES UNDERDECK 480V LED B	SPV.0060.08 INSTALL STATE FURNISHED LUMNAIRE HIGH MAST LIGHTING LED	COMMENTS
				EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	
0010	1	HL-40-CS	JCS3	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
			KCS3	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
			JCS4	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
			KCS4	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
			JCS5	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
			KCS5	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
			JCS6	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
			ECS1	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
			FCS1	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
			ECS2	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
			FCS2	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
			ECS3	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
			FCS3	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
			ECS4	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
			FCS4	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
			ECS5	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
			FCS5	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
			ECS6	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
			FCS6	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
			UDL COLL. CIRC. A/B/N	--	--	12	--	--	--	--	--	--	--	--	12	--	--	--	--	COLLEGE AVENUE OVER IH 94
			SUBTOTAL	0	19	12	0	0	0	18	1	0	0	0	12	0	0	0	0	
			HL-40-CS SUBTOTAL	0	47	12	0	0	0	27	20	0	0	0	12	0	0	0	0	

LIGHTING MAINTENANCE - HL-40-CN
240/480 VAC 3-WIRE ISOLATED NEUTRAL

- 204.9060.S.02 REMOVING LUMINAIRES HIGH MAST LIGHTING
- 204.9060.S.03 REMOVING LUMINAIRES UTILITY
- 204.9060.S.04 REMOVING LUMINAIRES UNDERDECK LIGHTING
- 204.9060.S.05 REMOVING UNDERDECK LIGHTING
- 659.0400 LUMINAIRE HIGH MAST LIGHTING LED
- 659.1115 LUMINAIRES UTILITY LED A
- 659.1125 LUMINAIRES UTILITY LED C
- 659.1130 LUMINAIRES UTILITY LED D
- 659.1210 LUMINAIRES UNDERDECK LED B
- SPV.0060.02 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 175 MV
- SPV.0060.03 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 250 MV
- SPV.0060.04 LUMINAIRES PROBEAM LED
- SPV.0060.05 LUMINAIRES UTILITY 480V LED C
- SPV.0060.06 LUMINAIRES UTILITY 480V LED D
- SPV.0060.07 LUMINAIRES UNDERDECK 480V LED B
- SPV.0060.08 INSTALL STATE FURNISHED LUMINAIRE HIGH MAST LIGHTING LED

CATEGORY	STAGE	SYSTEM	DESCRIPTION / SEQUENCE	204.9060.S.02 REMOVING LUMINAIRES HIGH MAST LIGHTING	204.9060.S.03 REMOVING LUMINAIRES UTILITY	204.9060.S.04 REMOVING LUMINAIRES UNDERDECK LIGHTING	204.9060.S.05 REMOVING UNDERDECK LIGHTING	659.0400 LUMINAIRE HIGH MAST LIGHTING LED	659.1115 LUMINAIRES UTILITY LED A	659.1125 LUMINAIRES UTILITY LED C	659.1130 LUMINAIRES UTILITY LED D	659.1210 LUMINAIRES UNDERDECK LED B	SPV.0060.02 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 175 MV	SPV.0060.03 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 250 MV	SPV.0060.04 LUMINAIRES PROBEAM LED	SPV.0060.05 LUMINAIRES UTILITY 480V LED C	SPV.0060.06 LUMINAIRES UTILITY 480V LED D	SPV.0060.07 LUMINAIRES UNDERDECK 480V LED B	SPV.0060.08 INSTALL STATE FURNISHED LUMINAIRE HIGH MAST LIGHTING LED	COMMENTS	
				EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH		
0010	1	HL-40-CN	ACN1/BCN1	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	
			ACN2/BCN2 (S-40-734)	--	2	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--	SIGN STRUCTURE EXTENSION
			ACN3/BCN3	--	2	--	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--
			ACN4/BCN4	--	2	--	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--
			ACN5/BCN5	--	2	--	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--
			CCN1/DCN1	--	2	--	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--
			CCN2/DCN2	--	2	--	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--
			CCN3/DCN3	--	2	--	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--
			CCN4	--	1	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
			DCN4	--	1	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
			CCN5	--	1	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
			DCN5	--	1	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
			CCN6	--	1	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
			ECN1	--	1	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
			FCN1	--	1	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
			ECN2	--	1	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
			FCN2	--	1	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
			ECN3	--	1	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
			FCN3	--	1	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
			ECN4	--	1	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
			FCN4	--	1	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
			ECN5	--	1	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
			FCN5	--	1	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
			ECN6	--	1	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
			FCN6	--	1	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
SUBTOTAL				0	33	0	0	0	0	17	16	0	0	0	0	0	0	0	0		

LIGHTING MAINTENANCE - HL-40-CN CONTINUED
240/480 VAC 3-WIRE ISOLATED NEUTRAL

204.9060.S.02 REMOVING LUMINAIRES HIGH MAST LIGHTING
204.9060.S.03 REMOVING LUMINAIRES UTILITY
204.9060.S.04 REMOVING LUMINAIRES UNDERDECK LIGHTING
204.9060.S.05 REMOVING UNDERDECK LIGHTING
659.0400 LUMINAIRE HIGH MAST LIGHTING LED
659.1115 LUMINAIRES UTILITY LED A
659.1125 LUMINAIRES UTILITY LED C
659.1130 LUMINAIRES UTILITY LED D
659.1210 LUMINAIRES UNDERDECK LED B
SPV.0060.02 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 175 MV
SPV.0060.03 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 250 MV
SPV.0060.04 LUMINAIRES PROBEAM LED
SPV.0060.05 LUMINAIRES UTILITY 480V LED C
SPV.0060.06 LUMINAIRES UTILITY 480V LED D
SPV.0060.07 LUMINAIRES UNDERDECK 480V LED B
SPV.0060.08 INSTALL STATE FURNISHED LUMINAIRE HIGH MAST LIGHTING LED

CATEGORY	STAGE	SYSTEM	DESCRIPTION / SEQUENCE	204.9060.S.02 REMOVING LUMINAIRES HIGH MAST LIGHTING	204.9060.S.03 REMOVING LUMINAIRES UTILITY	204.9060.S.04 REMOVING LUMINAIRES UNDERDECK LIGHTING	204.9060.S.05 REMOVING UNDERDECK LIGHTING	659.0400 LUMINAIRE HIGH MAST LIGHTING LED	659.1115 LUMINAIRES UTILITY LED A	659.1125 LUMINAIRES UTILITY LED C	659.1130 LUMINAIRES UTILITY LED D	659.1210 LUMINAIRES UNDERDECK LED B	SPV.0060.02 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 175 MV	SPV.0060.03 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 250 MV	SPV.0060.04 LUMINAIRES PROBEAM LED	SPV.0060.05 LUMINAIRES UTILITY 480V LED C	SPV.0060.06 LUMINAIRES UTILITY 480V LED D	SPV.0060.07 LUMINAIRES UNDERDECK 480V LED B	SPV.0060.08 INSTALL STATE FURNISHED LUMINAIRE HIGH MAST LIGHTING LED	COMMENTS
				EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	
0010	1	HL-40-CN	ECN7	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	STRUCTURE MOUNT
			FCN7	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"
			ECN8	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"
			FCN8	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"
			ECN9	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"
			JCN1	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"
			KCN1	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"
			JCN2	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"
			KCN2	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"
			JCN3	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"
			KCN3	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"
			JCN4	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	STRUCTURE MOUNT
			KCN4	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"
			JCN5	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"
			KCN5	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"
			JCN6	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"
			KCN6	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	STRUCTURE MOUNT
			JCN7	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"
			KCN7	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	STRUCTURE MOUNT - EX. LED B
			JCN8	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"
			KCN8	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"
			JCN9	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	STRUCTURE MOUNT - EX. LED B
			SUBTOTAL	0	22	0	0	0	0	21	1	0	0	0	0	0	0	0	0	
		HL-40-CN	SUBTOTAL	0	55	0	0	0	0	38	17	0	0	0	0	0	0	0	0	

LIGHTING MAINTENANCE - HL-40-BC
240/480 VAC 3-WIRE GROUNDED NEUTRAL

- 204.9060.S.02 REMOVING LUMNAIRES HIGH MAST LIGHTING
- 204.9060.S.03 REMOVING LUMNAIRES UTILITY
- 204.9060.S.04 REMOVING LUMNAIRES UNDERDECK LIGHTING
- 204.9060.S.05 REMOVING UNDERDECK LIGHTING
- 659.0400 LUMNAIRE HIGH MAST LIGHTING LED
- 659.1115 LUMNAIRES UTILITY LED A
- 659.1125 LUMNAIRES UTILITY LED C
- 659.1130 LUMNAIRES UTILITY LED D
- 659.1210 LUMNAIRES UNDERDECK LED B
- SPV.0060.02 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 175 MV
- SPV.0060.03 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 250 MV
- SPV.0060.04 LUMNAIRES PROBEAM LED
- SPV.0060.05 LUMNAIRES UTILITY 480V LED C
- SPV.0060.06 LUMNAIRES UTILITY 480V LED D
- SPV.0060.07 LUMNAIRES UNDERDECK 480V LED B
- SPV.0060.08 INSTALL STATE FURNISHED LUMINAIRE HIGH MAST LIGHTING LED

CATEGORY	STAGE	SYSTEM	DESCRIPTION / SEQUENCE	204.9060.S.02 REMOVING LUMNAIRES HIGH MAST LIGHTING	204.9060.S.03 REMOVING LUMNAIRES UTILITY	204.9060.S.04 REMOVING LUMNAIRES UNDERDECK LIGHTING	204.9060.S.05 REMOVING UNDERDECK LIGHTING	659.0400 LUMNAIRE HIGH MAST LIGHTING LED	659.1115 LUMNAIRES UTILITY LED A	659.1125 LUMNAIRES UTILITY LED C	659.1130 LUMNAIRES UTILITY LED D	659.1210 LUMNAIRES UNDERDECK LED B	SPV.0060.02 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 175 MV	SPV.0060.03 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 250 MV	SPV.0060.04 LUMNAIRES PROBEAM LED	SPV.0060.05 LUMNAIRES UTILITY 480V LED C	SPV.0060.06 LUMNAIRES UTILITY 480V LED D	SPV.0060.07 LUMNAIRES UNDERDECK 480V LED B	SPV.0060.08 INSTALL STATE FURNISHED LUMINAIRE HIGH MAST LIGHTING LED	COMMENTS
				EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	
0010	1	HL-40-BC	CBC1	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
			CBC2	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
			GBC1	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
			GBC2	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
			HML-40-041 CIRC. J/K	4	--	--	--	4	--	--	--	--	--	--	--	--	--	--	--	PROPOSED PLAQUE
			HML-40-042 CIRC. E/F	4	--	--	--	4	--	--	--	--	--	--	--	--	--	--	--	"
			HML-40-043 CIRC. G/H	4	--	--	--	4	--	--	--	--	--	--	--	--	--	--	--	"
			HML-40-044 CIRC. G/H	4	--	--	--	4	--	--	--	--	--	--	--	--	--	--	--	"
			HML-40-049 CIRC. C/D	4	--	--	--	4	--	--	--	--	--	--	--	--	--	--	--	"
			HML-40-050 CIRC. A/B	4	--	--	--	4	--	--	--	--	--	--	--	--	--	--	--	PROPOSED PLAQUE
			S-40-814 CIRC. D	--	--	--	--	--	--	--	--	--	--	2	--	--	--	--	--	--
		HL-40-BC	SUBTOTAL	24	4	0	0	24	0	0	4	0	0	2	0	0	0	0	0	

LIGHTING MAINTENANCE - HL-40-GN
240/480 VAC 3-WIRE GROUNDED NEUTRAL

204.9060.S.02 REMOVING LUMNAIRES HIGH MAST LIGHTING
204.9060.S.03 REMOVING LUMNAIRES UTILITY
204.9060.S.04 REMOVING LUMNAIRES UNDERDECK LIGHTING
204.9060.S.05 REMOVING UNDERDECK LIGHTING
659.0400 LUMNAIRE HIGH MAST LIGHTING LED
659.1115 LUMNAIRES UTILITY LED A
659.1125 LUMNAIRES UTILITY LED C
659.1130 LUMNAIRES UTILITY LED D
659.1210 LUMNAIRES UNDERDECK LED B
SPV.0060.02 GROUP LUMNAIRE MAINTENANCE SIGN LIGHT 175 MV
SPV.0060.03 GROUP LUMNAIRE MAINTENANCE SIGN LIGHT 250 MV
SPV.0060.04 LUMNAIRES PROBEAM LED
SPV.0060.05 LUMNAIRES UTILITY 480V LED C
SPV.0060.06 LUMNAIRES UTILITY 480V LED D
SPV.0060.07 LUMNAIRES UNDERDECK 480V LED B
SPV.0060.08 INSTALL STATE FURNISHED LUMNAIRE HIGH MAST LIGHTING LED

CATEGORY	STAGE	SYSTEM	DESCRIPTION / SEQUENCE	204.9060.S.02 REMOVING LUMNAIRES HIGH MAST LIGHTING	204.9060.S.03 REMOVING LUMNAIRES UTILITY	204.9060.S.04 REMOVING LUMNAIRES UNDERDECK LIGHTING	204.9060.S.05 REMOVING UNDERDECK LIGHTING	659.0400 LUMNAIRE HIGH MAST LIGHTING LED	659.1115 LUMNAIRES UTILITY LED A	659.1125 LUMNAIRES UTILITY LED C	659.1130 LUMNAIRES UTILITY LED D	659.1210 LUMNAIRES UNDERDECK LED B	SPV.0060.02 GROUP LUMNAIRE MAINTENANCE SIGN LIGHT 175 MV	SPV.0060.03 GROUP LUMNAIRE MAINTENANCE SIGN LIGHT 250 MV	SPV.0060.04 LUMNAIRES PROBEAM LED	SPV.0060.05 LUMNAIRES UTILITY 480V LED C	SPV.0060.06 LUMNAIRES UTILITY 480V LED D	SPV.0060.07 LUMNAIRES UNDERDECK 480V LED B	SPV.0060.08 INSTALL STATE FURNISHED LUMNAIRE HIGH MAST LIGHTING LED	COMMENTS	
				EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH		
0010	1	HL-40-GN	AGN1	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	
			AGN2	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	
			AGN3	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	
			AGN4	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	
			AGN5	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	
			AGN6	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	
			BGN1	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	
			BGN2	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	
			BGN3	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	
			BGN5	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	
			BGN6	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	
			HML-40-045 CIRC. E/F	4	4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
			HML-40-046 CIRC. C/D	4	4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
			HML-40-047 CIRC. C/D	4	4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
			S-40-154 Circ. B	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	NO SIGN LIGHTING
			S-40-212 Circ. D	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--
			S-40-393 Circ. B	--	--	--	--	--	--	--	--	--	--	--	--	2	--	--	--	--	--
			S-40-816 Circ. E	--	--	--	--	--	--	--	--	--	--	--	--	2	--	--	--	--	--
HL-40-GN		SUBTOTAL	12	23	0	0	0	0	0	0	11	0	0	5	0	0	0	0	0		

LIGHTING MAINTENANCE - HL-40-GH
240/480 VAC 3-WIRE ISOLATED NEUTRAL

204.9060.S.02 REMOVING LUMINAIRES HIGH MAST LIGHTING
204.9060.S.03 REMOVING LUMINAIRES UTILITY
204.9060.S.04 REMOVING LUMINAIRES UNDERDECK LIGHTING
204.9060.S.05 REMOVING UNDERDECK LIGHTING
659.0400 LUMINAIRE HIGH MAST LIGHTING LED
659.1115 LUMINAIRES UTILITY LED A
659.1125 LUMINAIRES UTILITY LED C
659.1130 LUMINAIRES UTILITY LED D
659.1210 LUMINAIRES UNDERDECK LED B
SPV.0060.02 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 175 MV
SPV.0060.03 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 250 MV
SPV.0060.04 LUMINAIRES PROBEAM LED
SPV.0060.05 LUMINAIRES UTILITY 480V LED C
SPV.0060.06 LUMINAIRES UTILITY 480V LED D
SPV.0060.07 LUMINAIRES UNDERDECK 480V LED B
SPV.0060.08 INSTALL STATE FURNISHED LUMINAIRE HIGH MAST LIGHTING LED

CATEGORY	STAGE	SYSTEM	DESCRIPTION / SEQUENCE	204.9060.S.02 REMOVING LUMINAIRES HIGH MAST LIGHTING	204.9060.S.03 REMOVING LUMINAIRES UTILITY	204.9060.S.04 REMOVING LUMINAIRES UNDERDECK LIGHTING	204.9060.S.05 REMOVING UNDERDECK LIGHTING	659.0400 LUMINAIRE HIGH MAST LIGHTING LED	659.1115 LUMINAIRES UTILITY LED A	659.1125 LUMINAIRES UTILITY LED C	659.1130 LUMINAIRES UTILITY LED D	659.1210 LUMINAIRES UNDERDECK LED B	SPV.0060.02 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 175 MV	SPV.0060.03 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 250 MV	SPV.0060.04 LUMINAIRES PROBEAM LED	SPV.0060.05 LUMINAIRES UTILITY 480V LED C	SPV.0060.06 LUMINAIRES UTILITY 480V LED D	SPV.0060.07 LUMINAIRES UNDERDECK 480V LED B	SPV.0060.08 INSTALL STATE FURNISHED LUMINAIRE HIGH MAST LIGHTING LED	COMMENTS
				EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	
0010	1	HL-40-GH	AGH50/BGH50	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--
			AGH51/BGH51	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--
			AGH52/BGH52	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--
			AGH53/BGH53	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--
			AGH54/BGH54	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--
			AGH60	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
			AGH62	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
			AGH64	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
			BGH61	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
			BGH63	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
			CGH55/DGH55	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--
			CGH56/DGH56	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--
			CGH57/DGH57	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--
			CGH58/DGH58	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--
			CGH59/DGH59	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--
			EGH71	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	EXISTING 150WHPS
			EGH73	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"
			EGH75	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"
			EGH77	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"
			EGH79	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	EXISTING 150WHPS
			SUBTOTAL	0	30	0	0	0	0	5	25	0	0	0	0	0	0	0	0	

LIGHTING MAINTENANCE - HL-40-GH CONTINUED
240/480 VAC 3-WIRE ISOLATED NEUTRAL

- 204.9060.S.02 REMOVING LUMINAIRES HIGH MAST LIGHTING
- 204.9060.S.03 REMOVING LUMINAIRES UTILITY
- 204.9060.S.04 REMOVING LUMINAIRES UNDERDECK LIGHTING
- 204.9060.S.05 REMOVING UNDERDECK LIGHTING
- 659.0400 LUMINAIRE HIGH MAST LIGHTING LED
- 659.1115 LUMINAIRES UTILITY LED A
- 659.1125 LUMINAIRES UTILITY LED C
- 659.1130 LUMINAIRES UTILITY LED D
- 659.1210 LUMINAIRES UNDERDECK LED B
- SPV.0060.02 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 175 MV
- SPV.0060.03 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 250 MV
- SPV.0060.04 LUMINAIRES PROBEAM LED
- SPV.0060.05 LUMINAIRES UTILITY 480V LED C
- SPV.0060.06 LUMINAIRES UTILITY 480V LED D
- SPV.0060.07 LUMINAIRES UNDERDECK 480V LED B
- SPV.0060.08 INSTALL STATE FURNISHED LUMINAIRE HIGH MAST LIGHTING LED

CATEGORY	STAGE	SYSTEM	DESCRIPTION / SEQUENCE	204.9060.S.02 REMOVING LUMINAIRES HIGH MAST LIGHTING	204.9060.S.03 REMOVING LUMINAIRES UTILITY	204.9060.S.04 REMOVING LUMINAIRES UNDERDECK LIGHTING	204.9060.S.05 REMOVING UNDERDECK LIGHTING	659.0400 LUMINAIRE HIGH MAST LIGHTING LED	659.1115 LUMINAIRES UTILITY LED A	659.1125 LUMINAIRES UTILITY LED C	659.1130 LUMINAIRES UTILITY LED D	659.1210 LUMINAIRES UNDERDECK LED B	SPV.0060.02 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 175 MV	SPV.0060.03 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 250 MV	SPV.0060.04 LUMINAIRES PROBEAM LED	SPV.0060.05 LUMINAIRES UTILITY 480V LED C	SPV.0060.06 LUMINAIRES UTILITY 480V LED D	SPV.0060.07 LUMINAIRES UNDERDECK 480V LED B	SPV.0060.08 INSTALL STATE FURNISHED LUMINAIRE HIGH MAST LIGHTING LED	COMMENTS			
				EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH				
0010	1	HL-40-GH	EGH81	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--		
			EGH83	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--		
			FGH70	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	
			FGH72	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	EXISTING 150WHPS	
			FGH76	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	"	
			FGH78	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	"	
			FGH80	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	EXISTING 150WHPS	
			FGH82	--	1	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	
			GGH87	--	1	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	EXISTING 150WHPS	
			GGH90	--	1	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"	
			GGH92	--	1	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"	
			GGH94	--	1	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"	
			GGH93	--	1	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"	
			HGH85	--	1	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"	
			HGH86	--	1	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	EXISTING 150WHPS	
			HGH88	--	1	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	
			HGH95	--	1	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	
			UDL GOOD HOPE (B-40-735) CIRC. C/D	--	--	4	--	--	--	--	--	--	--	4	--	--	--	--	--	--	--	GOOD HOPE ROAD EB OVER IH 43	
			UDL GOOD HOPE (B-40-735) CIRC. C/D	--	--	4	--	--	--	--	--	--	--	--	4	--	--	--	--	--	--	GOOD HOPE ROAD WB OVER IH 43	
			SUBTOTAL				0	17	8	0	0	0	11	6	8	0	0	0	0	0	0	0	
			HL-40-GH		SUBTOTAL	0	47	8	0	0	0	0	16	31	8	0	0	0	0	0	0	0	

LIGHTING MAINTENANCE - HL-40-EH
240/480 VAC 3-WIRE ISOLATED NEUTRAL

- 204.9060.S.02 REMOVING LUMINARES HIGH MAST LIGHTING
- 204.9060.S.03 REMOVING LUMINARES UTILITY
- 204.9060.S.04 REMOVING LUMINARES UNDERDECK LIGHTING
- 204.9060.S.05 REMOVING UNDERDECK LIGHTING
- 659.0400 LUMINAIRE HIGH MAST LIGHTING LED
- 659.1115 LUMINARES UTILITY LED A
- 659.1125 LUMINARES UTILITY LED C
- 659.1130 LUMINARES UTILITY LED D
- 659.1210 LUMINARES UNDERDECK LED B
- SPV.0060.02 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 175 MV
- SPV.0060.03 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 250 MV
- SPV.0060.04 LUMINARES PROBEAM LED
- SPV.0060.05 LUMINARES UTILITY 480V LED C
- SPV.0060.06 LUMINARES UTILITY 480V LED D
- SPV.0060.07 LUMINARES UNDERDECK 480V LED B
- SPV.0060.08 INSTALL STATE FURNISHED LUMINAIRE HIGH MAST LIGHTING LED

CATEGORY	STAGE	SYSTEM	DESCRIPTION / SEQUENCE	204.9060.S.02 REMOVING LUMINARES HIGH MAST LIGHTING	204.9060.S.03 REMOVING LUMINARES UTILITY	204.9060.S.04 REMOVING LUMINARES UNDERDECK LIGHTING	204.9060.S.05 REMOVING UNDERDECK LIGHTING	659.0400 LUMINAIRE HIGH MAST LIGHTING LED	659.1115 LUMINARES UTILITY LED A	659.1125 LUMINARES UTILITY LED C	659.1130 LUMINARES UTILITY LED D	659.1210 LUMINARES UNDERDECK LED B	SPV.0060.02 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 175 MV	SPV.0060.03 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 250 MV	SPV.0060.04 LUMINARES PROBEAM LED	SPV.0060.05 LUMINARES UTILITY 480V LED C	SPV.0060.06 LUMINARES UTILITY 480V LED D	SPV.0060.07 LUMINARES UNDERDECK 480V LED B	SPV.0060.08 INSTALL STATE FURNISHED LUMINAIRE HIGH MAST LIGHTING LED	COMMENTS		
				EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH			
0010	1	HL-40-EH	L-40-123	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6	PROPOSED HIGH MAST LIGHTING	
			L-40-124	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6	PROPOSED HIGH MAST LIGHTING
			DEH4/CEH4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	NEW LIGHTING UNIT (I.D. 1100-34-70 - NOV 2018)
			CEH3/DEH3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	"
			DEH2/CEH2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	"
			UDL-CEH/DEH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	92ND STREET OVER IH 894 (I.D. 1100-34-70)
			CEH1/DEH1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	"
			AEH1/BEH1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	NEW LIGHTING UNIT (I.D. 1100-34-70 - NOV 2018)
			BEH2/AEH2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	"
			AEH3/BEH3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	"
			BEH4/AEH4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	"
			AEH5/BEH5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	"
			BEH6/AEH6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	NEW LIGHTING UNIT (I.D. 1100-34-70 - NOV 2018)
			AEH7/BEH7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	"
			BEH8/AEH8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	"
			AEH9/BEH9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	"
			BEH10/AEH10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	"
			AEH11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	NEW LIGHTING UNIT (I.D. 1100-34-70 - NOV 2018)
			BEH11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	"
			AEH12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	"
			BEH12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	"
			AEH13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	"
			BEH13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	NEW LIGHTING UNIT (I.D. 1100-34-70 - NOV 2018)
			AEH14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	"
			BEH14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	"
			AEH15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	"
			BEH15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	"
			AEH16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	NEW LIGHTING UNIT (I.D. 1100-34-70 - NOV 2018)
HL-40-EH			SUBTOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12			

LIGHTING MAINTENANCE - HL-40-RT
240/480 VAC 3-WIRE ISOLATED NEUTRAL

- 204.9060.S.02 REMOVING LUMINAIRES HIGH MAST LIGHTING
- 204.9060.S.03 REMOVING LUMINAIRES UTILITY
- 204.9060.S.04 REMOVING LUMINAIRES UNDERDECK LIGHTING
- 204.9060.S.05 REMOVING UNDERDECK LIGHTING
- 659.0400 LUMINAIRE HIGH MAST LIGHTING LED
- 659.1115 LUMINAIRES UTILITY LED A
- 659.1125 LUMINAIRES UTILITY LED C
- 659.1130 LUMINAIRES UTILITY LED D
- 659.1210 LUMINAIRES UNDERDECK LED B
- SPV.0060.02 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 175 MV
- SPV.0060.03 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 250 MV
- SPV.0060.04 LUMINAIRES PROBEAM LED
- SPV.0060.05 LUMINAIRES UTILITY 480V LED C
- SPV.0060.06 LUMINAIRES UTILITY 480V LED D
- SPV.0060.07 LUMINAIRES UNDERDECK 480V LED B
- SPV.0060.08 INSTALL STATE FURNISHED LUMINAIRE HIGH MAST LIGHTING LED

CATEGORY	STAGE	SYSTEM	DESCRIPTION / SEQUENCE	204.9060.S.02 REMOVING LUMINAIRES HIGH MAST LIGHTING	204.9060.S.03 REMOVING LUMINAIRES UTILITY	204.9060.S.04 REMOVING LUMINAIRES UNDERDECK LIGHTING	204.9060.S.05 REMOVING UNDERDECK LIGHTING	659.0400 LUMINAIRE HIGH MAST LIGHTING LED	659.1115 LUMINAIRES UTILITY LED A	659.1125 LUMINAIRES UTILITY LED C	659.1130 LUMINAIRES UTILITY LED D	659.1210 LUMINAIRES UNDERDECK LED B	SPV.0060.02 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 175 MV	SPV.0060.03 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 250 MV	SPV.0060.04 LUMINAIRES PROBEAM LED	SPV.0060.05 LUMINAIRES UTILITY 480V LED C	SPV.0060.06 LUMINAIRES UTILITY 480V LED D	SPV.0060.07 LUMINAIRES UNDERDECK 480V LED B	SPV.0060.08 INSTALL STATE FURNISHED LUMINAIRE HIGH MAST LIGHTING LED	COMMENTS	
				EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH		
0010	1	HL-40-RT	L-40-125 CIRC. E/F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6	PROPOSED HIGH MAST LIGHTING
			L-40-126 CIRC. C/D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6	"
			L-40-128 CIRC. G/H	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6	"
			L-40-129 CIRC. A/B	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6	PROPOSED HIGH MAST LIGHTING
			S-40-021 CIRC. A/B	--	--	--	--	--	--	--	--	--	--	--	--	2	--	--	--	--	--
		HL-40-RT	SUBTOTAL	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	24		

LIGHTING MAINTENANCE - HL-40-CO
240/480 VAC 3-WIRE ISOLATED NEUTRAL

204.9060.S.02 REMOVING LUMINAIRES HIGH MAST LIGHTING
204.9060.S.03 REMOVING LUMINAIRES UTILITY
204.9060.S.04 REMOVING LUMINAIRES UNDERDECK LIGHTING
204.9060.S.05 REMOVING UNDERDECK LIGHTING
659.0400 LUMINAIRE HIGH MAST LIGHTING LED
659.1115 LUMINAIRES UTILITY LED A
659.1125 LUMINAIRES UTILITY LED C
659.1130 LUMINAIRES UTILITY LED D
659.1210 LUMINAIRES UNDERDECK LED B
SPV.0060.02 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 175 MV
SPV.0060.03 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 250 MV
SPV.0060.04 LUMINAIRES PROBEAM LED
SPV.0060.05 LUMINAIRES UTILITY 480V LED C
SPV.0060.06 LUMINAIRES UTILITY 480V LED D
SPV.0060.07 LUMINAIRES UNDERDECK 480V LED B
SPV.0060.08 INSTALL STATE FURNISHED LUMINAIRE HIGH MAST LIGHTING LED

CATEGORY	STAGE	SYSTEM	DESCRIPTION / SEQUENCE	204.9060.S.02 REMOVING LUMINAIRES HIGH MAST LIGHTING	204.9060.S.03 REMOVING LUMINAIRES UTILITY	204.9060.S.04 REMOVING LUMINAIRES UNDERDECK LIGHTING	204.9060.S.05 REMOVING UNDERDECK LIGHTING	659.0400 LUMINAIRE HIGH MAST LIGHTING LED	659.1115 LUMINAIRES UTILITY LED A	659.1125 LUMINAIRES UTILITY LED C	659.1130 LUMINAIRES UTILITY LED D	659.1210 LUMINAIRES UNDERDECK LED B	SPV.0060.02 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 175 MV	SPV.0060.03 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 250 MV	SPV.0060.04 LUMINAIRES PROBEAM LED	SPV.0060.05 LUMINAIRES UTILITY 480V LED C	SPV.0060.06 LUMINAIRES UTILITY 480V LED D	SPV.0060.07 LUMINAIRES UNDERDECK 480V LED B	SPV.0060.08 INSTALL STATE FURNISHED LUMINAIRE HIGH MAST LIGHTING LED	COMMENTS
0010	1	HL-40-CO	AC01/BC01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	NEWLIGHTING UNIT (I.D. 1100-34-70 - NOV 2018)
			BC02/AC02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	"
			AC03/BC03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	"
			BC04/AC04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	"
			AC05/BC05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	NEWLIGHTING UNIT (I.D. 1100-34-70 - NOV 2018)
			BC06/AC06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	"
			AC07/BC07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	"
			BC08/AC08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	"
			AC09/BC09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	"
			BC010/AC010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	NEWLIGHTING UNIT (I.D. 1100-34-70 - NOV 2018)
			AC011/BC011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	"
			BC012/AC012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	"
			L-40-127 CIRC. C/D	--	6	--	--	--	--	--	--	--	--	--	--	--	--	--	6	NEWLIGHTING UNIT (I.D. 1100-34-70 - NOV 2018)
			HL-40-CO SUBTOTAL	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6	

LIGHTING MAINTENANCE - HL-40-MY
240/480 VAC 3-WIRE GROUNDED NEUTRAL

204.9060.S.02 REMOVING LUMNAIRES HIGH MAST LIGHTING
204.9060.S.03 REMOVING LUMNAIRES UTILITY
204.9060.S.04 REMOVING LUMNAIRES UNDERDECK LIGHTING
204.9060.S.05 REMOVING UNDERDECK LIGHTING
659.0400 LUMNAIRE HIGH MAST LIGHTING LED
659.1115 LUMNAIRES UTILITY LED A
659.1125 LUMNAIRES UTILITY LED C
659.1130 LUMNAIRES UTILITY LED D
659.1210 LUMNAIRES UNDERDECK LED B
SPV.0060.02 GROUP LUMNAIRE MAINTENANCE SIGN LIGHT 175 MV
SPV.0060.03 GROUP LUMNAIRE MAINTENANCE SIGN LIGHT 250 MV
SPV.0060.04 LUMNAIRES PROBEAM LED
SPV.0060.05 LUMNAIRES UTILITY 480V LED C
SPV.0060.06 LUMNAIRES UTILITY 480V LED D
SPV.0060.07 LUMNAIRES UNDERDECK 480V LED B
SPV.0060.08 INSTALL STATE FURNISHED LUMNAIRE HIGH MAST LIGHTING LED

CATEGORY	STAGE	SYSTEM	DESCRIPTION / SEQUENCE	204.9060.S.02 REMOVING LUMNAIRES HIGH MAST LIGHTING	204.9060.S.03 REMOVING LUMNAIRES UTILITY	204.9060.S.04 REMOVING LUMNAIRES UNDERDECK LIGHTING	204.9060.S.05 REMOVING UNDERDECK LIGHTING	659.0400 LUMNAIRE HIGH MAST LIGHTING LED	659.1115 LUMNAIRES UTILITY LED A	659.1125 LUMNAIRES UTILITY LED C	659.1130 LUMNAIRES UTILITY LED D	659.1210 LUMNAIRES UNDERDECK LED B	SPV.0060.02 GROUP LUMNAIRE SIGN LIGHT 175 MV	SPV.0060.03 GROUP LUMNAIRE SIGN LIGHT 250 MV	SPV.0060.04 LUMNAIRES PROBEAM LED	SPV.0060.05 LUMNAIRES UTILITY 480V LED C	SPV.0060.06 LUMNAIRES UTILITY 480V LED D	SPV.0060.07 LUMNAIRES UNDERDECK 480V LED B	SPV.0060.08 INSTALL STATE FURNISHED LUMNAIRE HIGH MAST LIGHTING LED	COMMENTS
				EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	
0010	1	HL-40-MY	AMY1/BMY1	--	2	--	--	--	--	2	--	--	--	--	--	--	--	--	--	--
			BMY2	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
			AMY3/BMY3	--	2	--	--	--	--	2	--	--	--	--	--	--	--	--	--	--
			BMY4	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
			AMY5	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
			BMY6	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
			AMY7/BMY7	--	2	--	--	--	--	2	--	--	--	--	--	--	--	--	--	--
			BMY8	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
			AMY9	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
			CMY1	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
			DMY2	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
			CMY3/DMY3	--	2	--	--	--	--	2	--	--	--	--	--	--	--	--	--	--
			DMY6	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
			CMY7	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
			DMY8	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
			FMY1	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
			EMY2	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
			FMY3	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
			EMY4	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
			FMY5	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
			EMY6	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
			EMY7/FMY7	--	2	--	--	--	--	2	--	--	--	--	--	--	--	--	--	--
			GMY1	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
			HMY2	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
			GMY3	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
			HMY4	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
			GMY5	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
			HMY6	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
			GMY7/HMY7	--	2	--	--	--	--	2	--	--	--	--	--	--	--	--	--	--
			HMY8	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
		HL-40-MY	SUBTOTAL	0	36	0	0	0	0	18	18	0	0	0	0	0	0	0	0	

LIGHTING MAINTENANCE - HL-40-BS
480 VAC 2-WIRE GROUNDED NEUTRAL

- 204.9060.S.02 REMOVING LUMINAIRES HIGH MAST LIGHTING
- 204.9060.S.03 REMOVING LUMINAIRES UTILITY
- 204.9060.S.04 REMOVING LUMINAIRES UNDERDECK LIGHTING
- 204.9060.S.05 REMOVING UNDERDECK LIGHTING
- 659.0400 LUMINAIRE HIGH MAST LIGHTING LED
- 659.1115 LUMINAIRES UTILITY LED A
- 659.1125 LUMINAIRES UTILITY LED C
- 659.1130 LUMINAIRES UTILITY LED D
- 659.1210 LUMINAIRES UNDERDECK LED B
- SPV.0060.02 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 175 MV
- SPV.0060.03 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 250 MV
- SPV.0060.04 LUMINAIRES PROBEAM LED
- SPV.0060.05 LUMINAIRES UTILITY 480V LED C
- SPV.0060.06 LUMINAIRES UTILITY 480V LED D
- SPV.0060.07 LUMINAIRES UNDERDECK 480V LED B
- SPV.0060.08 INSTALL STATE FURNISHED LUMINAIRE HIGH MAST LIGHTING LED

CATEGORY	STAGE	SYSTEM	DESCRIPTION / SEQUENCE	204.9060.S.02 REMOVING LUMINAIRES HIGH MAST LIGHTING	204.9060.S.03 REMOVING LUMINAIRES UTILITY	204.9060.S.04 REMOVING LUMINAIRES UNDERDECK LIGHTING	204.9060.S.05 REMOVING UNDERDECK LIGHTING	659.0400 LUMINAIRE HIGH MAST LIGHTING LED	659.1115 LUMINAIRES UTILITY LED A	659.1125 LUMINAIRES UTILITY LED C	659.1130 LUMINAIRES UTILITY LED D	659.1210 LUMINAIRES UNDERDECK LED B	SPV.0060.02 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 175 MV	SPV.0060.03 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 250 MV	SPV.0060.04 LUMINAIRES PROBEAM LED	SPV.0060.05 LUMINAIRES UTILITY 480V LED C	SPV.0060.06 LUMINAIRES UTILITY 480V LED D	SPV.0060.07 LUMINAIRES UNDERDECK 480V LED B	SPV.0060.08 INSTALL STATE FURNISHED LUMINAIRE HIGH MAST LIGHTING LED	COMMENTS			
				EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH				
0010	1	HL-40-BS	ABS2/BBS2	--	2	--	--	--	--	--	--	--	--	--	--	--	--	2	--	--	--		
			ABS3/BBS3	--	2	--	--	--	--	--	--	--	--	--	--	--	--	--	2	--	--	--	
			ABS4/BBS4	--	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2	--	--	--
			BBS11	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--
			BBS12	--	1	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	EXISTING 150WHPS	
			BBS13	--	1	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	"	
			BBS14	--	1	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	"	
			BBS15	--	1	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	"	
			BBS16	--	1	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	EXISTING 150WHPS	
			CBS1/DBS1	--	2	--	--	--	--	--	--	--	--	--	--	--	--	--	2	--	--	--	
			CBS2/DBS2	--	2	--	--	--	--	--	--	--	--	--	--	--	--	--	2	--	--	--	
			CBS3/DBS3	--	2	--	--	--	--	--	--	--	--	--	--	--	--	--	2	--	--	--	
			CBS4/DBS4	--	2	--	--	--	--	--	--	--	--	--	--	--	--	--	2	--	--	--	
			CBS5/DBS5	--	2	--	--	--	--	--	--	--	--	--	--	--	--	--	2	--	--	--	
			CBS6/DBS6	--	2	--	--	--	--	--	--	--	--	--	--	--	--	--	2	--	--	--	
			CBS7/DBS7	--	2	--	--	--	--	--	--	--	--	--	--	--	--	--	2	--	--	--	
			CBS8/DBS8	--	2	--	--	--	--	--	--	--	--	--	--	--	--	--	2	--	--	SIGN STRUCTURE MOUNT - NO SIGN LIGHTING	
			CBS9/DBS9	--	2	--	--	--	--	--	--	--	--	--	--	--	--	--	2	--	--	--	
			CBS10/DBS10	--	2	--	--	--	--	--	--	--	--	--	--	--	--	--	2	--	--	SIGN STRUCTURE MOUNT - NO SIGN LIGHTING	
			CBS11/DBS11	--	2	--	--	--	--	--	--	--	--	--	--	--	--	--	2	--	--	--	
			CBS30/DBS30	--	2	--	--	--	--	--	--	--	--	--	--	--	--	--	2	--	--	--	
			CBS12	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	EXISTING 150WHPS
			CBS13	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--
			CBS14	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--
			CBS15	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--
SUBTOTAL				0	40	0	0	0	0	0	0	0	0	0	0	9	31	0	0				

LIGHTING MAINTENANCE - HL-40-BS CONTINUED
480 VAC 2-WIRE GROUNDED NEUTRAL

204.9060.S.02 REMOVING LUMINAIRES HIGH MAST LIGHTING
204.9060.S.03 REMOVING LUMINAIRES UTILITY
204.9060.S.04 REMOVING LUMINAIRES UNDERDECK LIGHTING
204.9060.S.05 REMOVING UNDERDECK LIGHTING
659.0400 LUMINAIRE HIGH MAST LIGHTING LED
659.1115 LUMINAIRES UTILITY LED A
659.1125 LUMINAIRES UTILITY LED C
659.1130 LUMINAIRES UTILITY LED D
659.1210 LUMINAIRES UNDERDECK LED B
SPV.0060.02 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 175 MV
SPV.0060.03 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 250 MV
SPV.0060.04 LUMINAIRES PROBEAM LED
SPV.0060.05 LUMINAIRES UTILITY 480V LED C
SPV.0060.06 LUMINAIRES UTILITY 480V LED D
SPV.0060.07 LUMINAIRES UNDERDECK 480V LED B
SPV.0060.08 INSTALL STATE FURNISHED LUMINAIRE HIGH MAST LIGHTING LED

CATEGORY	STAGE	SYSTEM	DESCRIPTION / SEQUENCE	204.9060.S.02 REMOVING LUMINAIRES HIGH MAST LIGHTING	204.9060.S.03 REMOVING LUMINAIRES UTILITY	204.9060.S.04 REMOVING LUMINAIRES UNDERDECK LIGHTING	204.9060.S.05 REMOVING UNDERDECK LIGHTING	659.0400 LUMINAIRE HIGH MAST LIGHTING LED	659.1115 LUMINAIRES UTILITY LED A	659.1125 LUMINAIRES UTILITY LED C	659.1130 LUMINAIRES UTILITY LED D	659.1210 LUMINAIRES UNDERDECK LED B	SPV.0060.02 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 175 MV	SPV.0060.03 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 250 MV	SPV.0060.04 LUMINAIRES PROBEAM LED	SPV.0060.05 LUMINAIRES UTILITY 480V LED C	SPV.0060.06 LUMINAIRES UTILITY 480V LED D	SPV.0060.07 LUMINAIRES UNDERDECK 480V LED B	SPV.0060.08 INSTALL STATE FURNISHED LUMINAIRE HIGH MAST LIGHTING LED	COMMENTS			
				EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH				
0010	1	HL-40-BS	CBS16	--	1	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	EXISTING 150WHPS		
			CBS17	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	
			DBS21	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	
			DBS22	--	1	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	
			DBS23	--	1	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	
			DBS24	--	1	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	
			DBS25	--	1	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	
			DBS26	--	1	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	
			DBS27	--	1	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	EXISTING 150WHPS	
			DBS28	--	1	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	"	
			EBS1	--	1	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	EXISTING 100WHPS	
			EBS2	--	1	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	
			EBS3	--	1	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	
			EBS4	--	1	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	
			EBS5	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--
			EBS6-PCBS	--	1	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	EXISTING 100WHPS - PHOTO CELL	
			S-40-235 CIRC. C	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	
			S-40-236 CIRC. C	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	
SUBTOTAL				0	16	0	0	0	0	0	0	0	0	2	0	13	3	0	0				
		HL-40-BS	SUBTOTAL	0	56	0	0	0	0	0	0	0	0	2	0	22	34	0	0				

LIGHTING MAINTENANCE - HL-40-CC
120/240 VAC 3-WIRE GROUNDED NEUTRAL

204.9060.S.02 REMOVING LUMINAIRES HIGH MAST LIGHTING
204.9060.S.03 REMOVING LUMINAIRES UTILITY
204.9060.S.04 REMOVING LUMINAIRES UNDERDECK LIGHTING
204.9060.S.05 REMOVING UNDERDECK LIGHTING
659.0400 LUMINAIRE HIGH MAST LIGHTING LED
659.1115 LUMINAIRES UTILITY LED A
659.1125 LUMINAIRES UTILITY LED C
659.1130 LUMINAIRES UTILITY LED D
659.1210 LUMINAIRES UNDERDECK LED B
SPV.0060.02 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 175 MV
SPV.0060.03 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 250 MV
SPV.0060.04 LUMINAIRES PROBEAM LED
SPV.0060.05 LUMINAIRES UTILITY 480V LED C
SPV.0060.06 LUMINAIRES UTILITY 480V LED D
SPV.0060.07 LUMINAIRES UNDERDECK 480V LED B
SPV.0060.08 INSTALL STATE FURNISHED LUMINAIRE HIGH MAST LIGHTING LED

CATEGORY	STAGE	SYSTEM	DESCRIPTION / SEQUENCE	204.9060.S.02 REMOVING LUMINAIRES HIGH MAST LIGHTING	204.9060.S.03 REMOVING LUMINAIRES UTILITY	204.9060.S.04 REMOVING LUMINAIRES UNDERDECK LIGHTING	204.9060.S.05 REMOVING UNDERDECK LIGHTING	659.0400 LUMINAIRE HIGH MAST LIGHTING LED	659.1115 LUMINAIRES UTILITY LED A	659.1125 LUMINAIRES UTILITY LED C	659.1130 LUMINAIRES UTILITY LED D	659.1210 LUMINAIRES UNDERDECK LED B	SPV.0060.02 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 175 MV	SPV.0060.03 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 250 MV	SPV.0060.04 LUMINAIRES PROBEAM LED	SPV.0060.05 LUMINAIRES UTILITY 480V LED C	SPV.0060.06 LUMINAIRES UTILITY 480V LED D	SPV.0060.07 LUMINAIRES UNDERDECK 480V LED B	SPV.0060.08 INSTALL STATE FURNISHED LUMINAIRE HIGH MAST LIGHTING LED	COMMENTS	
				EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH		
0010	1	HL-40-CC	ACC3/BCC3	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	--
			ACC4/BCC4	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	--
			ACC5/BCC5	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	--
			ACC6/BCC6 (S-40-237)	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	SIGN STRUCTURE EXTENSION
			CCC1/DCC1	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	
			CCC2/DCC2	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	--
			CCC4	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
			CCC5	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
			CCC7/DCC7	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	--
			CCC8/DCC8	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	--
			DCC3	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
			DCC6	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
		HL-40-CC	SUBTOTAL	0	20	0	0	0	0	0	20	0	0	0	0	0	0	0	0		

LIGHTING MAINTENANCE - HL-40-HM
480 VAC 2-WIRE GROUNDED NEUTRAL

204.9060.S.02 REMOVING LUMINARES HIGH MAST LIGHTING
204.9060.S.03 REMOVING LUMINARES UTILITY
204.9060.S.04 REMOVING LUMINARES UNDERDECK LIGHTING
204.9060.S.05 REMOVING UNDERDECK LIGHTING
659.0400 LUMINAIRE HIGH MAST LIGHTING LED
659.1115 LUMINARES UTILITY LED A
659.1125 LUMINARES UTILITY LED C
659.1130 LUMINARES UTILITY LED D
659.1210 LUMINARES UNDERDECK LED B
SPV.0060.02 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 175 MV
SPV.0060.03 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 250 MV
SPV.0060.04 LUMINARES PROBEAM LED
SPV.0060.05 LUMINARES UTILITY 480V LED C
SPV.0060.06 LUMINARES UTILITY 480V LED D
SPV.0060.07 LUMINARES UNDERDECK 480V LED B
SPV.0060.08 INSTALL STATE FURNISHED LUMINAIRE HIGH MAST LIGHTING LED

CATEGORY	STAGE	SYSTEM	DESCRIPTION / SEQUENCE	204.9060.S.02 REMOVING LUMINAIRES HIGH MAST LIGHTING	204.9060.S.03 REMOVING LUMINAIRES UTILITY	204.9060.S.04 REMOVING LUMINAIRES UNDERDECK LIGHTING	204.9060.S.05 REMOVING UNDERDECK LIGHTING	659.0400 LUMINAIRE HIGH MAST LIGHTING LED	659.1115 LUMINAIRES UTILITY LED A	659.1125 LUMINAIRES UTILITY LED C	659.1130 LUMINAIRES UTILITY LED D	659.1210 LUMINAIRES UNDERDECK LED B	SPV.0060.02 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 175 MV	SPV.0060.03 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 250 MV	SPV.0060.04 LUMINAIRES PROBEAM LED	SPV.0060.05 LUMINAIRES UTILITY 480V LED C	SPV.0060.06 LUMINAIRES UTILITY 480V LED D	SPV.0060.07 LUMINAIRES UNDERDECK 480V LED B	SPV.0060.08 INSTALL STATE FURNISHED LUMINAIRE HIGH MAST LIGHTING LED	COMMENTS			
				EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH				
0010	1	HL-40-HM	AHM1/BHM1	--	2	--	--	--	--	--	--	--	--	--	--	--	--	2	--	--	--		
			AHM2/BHM2	--	2	--	--	--	--	--	--	--	--	--	--	--	--	--	2	--	--	--	
			AHM3/BHM3	--	2	--	--	--	--	--	--	--	--	--	--	--	--	--	2	--	--	--	
			AHM4/BHM4	--	2	--	--	--	--	--	--	--	--	--	--	--	--	--	2	--	--	--	
			AHM5/BHM5	--	2	--	--	--	--	--	--	--	--	--	--	--	--	--	2	--	--	--	
			AHM6/BHM6	--	2	--	--	--	--	--	--	--	--	--	--	--	--	--	2	--	--	--	
			AHM7	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	STRUCTURE MOUNT	
			AHM8/BHM8	--	2	--	--	--	--	--	--	--	--	--	--	--	--	--	2	--	--	--	
			AHM9/BHM9	--	2	--	--	--	--	--	--	--	--	--	--	--	--	--	2	--	--	--	
			AHM21	--	1	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	EXISTING 150W HPS	
			AHM22	--	1	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	EXISTING 150W HPS	
			AHM23	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	
			AHM24	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	
			AHM25	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	EXISTING 150W HPS	
			AHM26	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	
			AHM27	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--
			BHM7	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	STRUCTURE MOUNT
			BHM16	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	EXISTING 150W HPS	
			BHM17	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	EXISTING 150W HPS	
			BHM18	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	
			BHM19	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	
			BHM20	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	
			BHM21	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	
			BHM22	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	
			BHM23	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--
			CHM10-PCHM	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--
			CHM11	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--
			CHM12	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--
			CHM13	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--
			CHM14	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--
SUBTOTAL				0	38	0	0	0	0	0	0	0	0	0	0	17	21	0	0				

LIGHTING MAINTENANCE - HL-40-HM CONTINUED
480 VAC 2-WIRE GROUNDED NEUTRAL

- 204.9060.S.02 REMOVING LUMINAIRES HIGH MAST LIGHTING
- 204.9060.S.03 REMOVING LUMINAIRES UTILITY
- 204.9060.S.04 REMOVING LUMINAIRES UNDERDECK LIGHTING
- 204.9060.S.05 REMOVING UNDERDECK LIGHTING
- 659.0400 LUMINAIRE HIGH MAST LIGHTING LED
- 659.1115 LUMINAIRES UTILITY LED A
- 659.1125 LUMINAIRES UTILITY LED C
- 659.1130 LUMINAIRES UTILITY LED D
- 659.1210 LUMINAIRES UNDERDECK LED B
- SPV.0060.02 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 175 MV
- SPV.0060.03 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 250 MV
- SPV.0060.04 LUMINAIRES PROBEAM LED
- SPV.0060.05 LUMINAIRES UTILITY 480V LED C
- SPV.0060.06 LUMINAIRES UTILITY 480V LED D
- SPV.0060.07 LUMINAIRES UNDERDECK 480V LED B
- SPV.0060.08 INSTALL STATE FURNISHED LUMINAIRE HIGH MAST LIGHTING LED

CATEGORY	STAGE	SYSTEM	DESCRIPTION / SEQUENCE	204.9060.S.02 REMOVING LUMINAIRES HIGH MAST LIGHTING	204.9060.S.03 REMOVING LUMINAIRES UTILITY	204.9060.S.04 REMOVING LUMINAIRES UNDERDECK LIGHTING	204.9060.S.05 REMOVING UNDERDECK LIGHTING	659.0400 LUMINAIRE HIGH MAST LIGHTING LED	659.1115 LUMINAIRES UTILITY LED A	659.1125 LUMINAIRES UTILITY LED C	659.1130 LUMINAIRES UTILITY LED D	659.1210 LUMINAIRES UNDERDECK LED B	SPV.0060.02 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 175 MV	SPV.0060.03 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 250 MV	SPV.0060.04 LUMINAIRES PROBEAM LED	SPV.0060.05 LUMINAIRES UTILITY 480V LED C	SPV.0060.06 LUMINAIRES UTILITY 480V LED D	SPV.0060.07 LUMINAIRES UNDERDECK 480V LED B	SPV.0060.08 INSTALL STATE FURNISHED LUMINAIRE HIGH MAST LIGHTING LED	COMMENTS
0010	1	HL-40-HM	CHM15	--	1	--	--	--	--	--	--	--	--	--	--	1	--	--	--	EXISTING 150WHPS
			DHM3/EHM3	--	2	--	--	--	--	--	--	--	--	--	--	--	2	--	--	--
			DHM4/EHM4	--	2	--	--	--	--	--	--	--	--	--	--	--	2	--	--	--
			DHM5/EHM5	--	2	--	--	--	--	--	--	--	--	--	--	--	2	--	--	--
			DHM6/EHM6	--	2	--	--	--	--	--	--	--	--	--	--	--	2	--	--	--
			DHM7/EHM7	--	2	--	--	--	--	--	--	--	--	--	--	--	2	--	--	--
			DHM8/EHM8	--	2	--	--	--	--	--	--	--	--	--	--	--	2	--	--	--
			DHM9/EHM9	--	2	--	--	--	--	--	--	--	--	--	--	--	2	--	--	--
			DHM10/EHM10	--	2	--	--	--	--	--	--	--	--	--	--	--	2	--	--	--
			DHM11/EHM11 (S-40-238)	--	2	--	--	--	--	--	--	--	--	--	--	--	2	--	--	SIGN STRUCTURE MOUNT - NO SIGN LIGHTING
			DHM12/EHM12	--	2	--	--	--	--	--	--	--	--	--	--	--	2	--	--	--
			DHM13/EHM13	--	2	--	--	--	--	--	--	--	--	--	--	--	2	--	--	--
			DHM14/EHM14	--	2	--	--	--	--	--	--	--	--	--	--	--	2	--	--	--
			FHM1	--	1	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--
			FHM2	--	1	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--
			FHM3	--	1	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--
			FHM4	--	1	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--
			FHM5	--	1	--	--	--	--	--	--	--	--	--	--	1	--	--	--	EXISTING 150WHPS
			FHM6	--	1	--	--	--	--	--	--	--	--	--	--	1	--	--	--	"
			FHM7	--	1	--	--	--	--	--	--	--	--	--	--	1	--	--	--	EXISTING 150WHPS
			UDL HAMPTON CIRC. A/B	--	--	--	1	--	--	--	--	--	--	--	--	--	--	4	--	HAMPTON AVENUE OVER IH 41
			SUBTOTAL	0	32	0	1	0	0	0	0	0	0	0	0	7	25	4	0	
		HL-40-HM	SUBTOTAL	0	70	0	1	0	0	0	0	0	0	0	0	24	46	4	0	

LIGHTING MAINTENANCE - HL-40-SL
240/480 VAC 3-WIRE ISOLATED NEUTRAL

- 204.9060.S.02 REMOVING LUMINAIRES HIGH MAST LIGHTING
- 204.9060.S.03 REMOVING LUMINAIRES UTILITY
- 204.9060.S.04 REMOVING LUMINAIRES UNDERDECK LIGHTING
- 204.9060.S.05 REMOVING UNDERDECK LIGHTING
- 659.0400 LUMINAIRE HIGH MAST LIGHTING LED
- 659.1115 LUMINAIRES UTILITY LED A
- 659.1125 LUMINAIRES UTILITY LED C
- 659.1130 LUMINAIRES UTILITY LED D
- 659.1210 LUMINAIRES UNDERDECK LED B
- SPV.0060.02 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 175 MV
- SPV.0060.03 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 250 MV
- SPV.0060.04 LUMINAIRES PROBEAM LED
- SPV.0060.05 LUMINAIRES UTILITY 480V LED C
- SPV.0060.06 LUMINAIRES UTILITY 480V LED D
- SPV.0060.07 LUMINAIRES UNDERDECK 480V LED B
- SPV.0060.08 INSTALL STATE FURNISHED LUMINAIRE HIGH MAST LIGHTING LED

CATEGORY	STAGE	SYSTEM	DESCRIPTION / SEQUENCE	204.9060.S.02 REMOVING LUMINAIRES HIGH MAST LIGHTING	204.9060.S.03 REMOVING LUMINAIRES UTILITY	204.9060.S.04 REMOVING LUMINAIRES UNDERDECK LIGHTING	204.9060.S.05 REMOVING UNDERDECK LIGHTING	659.0400 LUMINAIRE HIGH MAST LIGHTING LED	659.1115 LUMINAIRES UTILITY LED A	659.1125 LUMINAIRES UTILITY LED C	659.1130 LUMINAIRES UTILITY LED D	659.1210 LUMINAIRES UNDERDECK LED B	SPV.0060.02 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 175 MV	SPV.0060.03 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 250 MV	SPV.0060.04 LUMINAIRES PROBEAM LED	SPV.0060.05 LUMINAIRES UTILITY 480V LED C	SPV.0060.06 LUMINAIRES UTILITY 480V LED D	SPV.0060.07 LUMINAIRES UNDERDECK 480V LED B	SPV.0060.08 INSTALL STATE FURNISHED LUMINAIRE HIGH MAST LIGHTING LED	COMMENTS		
				EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH			
0010	1	HL-40-SL	ASL1/BSL1	--	2	--	--	--	--	2	--	--	--	--	--	--	--	--	--	EXISTING LED C		
			ASL2-PCSL	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	EXISTING LED C - PHOTO CELL		
			ASL3	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--		
			ASL4	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--		
			ASL5	--	1	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--		
			BSL2	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--		
			BSL3	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--		
			BSL4	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--		
			CSL1/DSL1	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--		
			CSL2/DSL2	--	2	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--		
			CSL3/DSL3	--	2	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--		
			CSL4/DSL4	--	2	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--		
			CSL5/DSL5	--	2	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--		
			CSL6/DSL6	--	2	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--		
			CSL7/DSL7	--	2	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--		
			CSL8/DSL8 (S-40-239)	--	2	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--	MOUNTED ON SIGN STRUCTURE	
			CSL9/DSL9	--	2	--	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--	
			CSL10/DSL10	--	2	--	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--	
			ESL01	--	1	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	EXISTING LED C	
			ESL2/FSL2	--	2	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	
			ESL3/FSL3	--	2	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	
			ESL4/FSL4	--	2	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	
			ESL5/FSL5	--	2	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	
			ESL6	--	1	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	EXISTING LED C	
			ESL7	--	1	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	
			ESL8	--	1	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	
			FSL6	--	1	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	
			FSL7	--	1	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	
			S-40-032	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	NO SIGN LIGHTING
			UDL B-40-363 CIRC. E/F	--	4	--	1	--	--	--	--	--	--	--	4	--	--	--	--	--	--	IH 41 SB OVER SILVER SPRING DRIVE
			UDL B-40-364 CIRC. E/F	--	4	--	1	--	--	--	--	--	--	--	4	--	--	--	--	--	--	IH 41 NB OVER SILVER SPRING DRIVE
HL-40-SL			SUBTOTAL	0	51	0	2	0	0	21	22	8	0	0	0	0	0	0	0			

LIGHTING MAINTENANCE - HL-40-CM
480 VAC 2-WIRE GROUNDED NEUTRAL

- 204.9060.S.02 REMOVING LUMINAIRES HIGH MAST LIGHTING
- 204.9060.S.03 REMOVING LUMINAIRES UTILITY
- 204.9060.S.04 REMOVING LUMINAIRES UNDERDECK LIGHTING
- 204.9060.S.05 REMOVING UNDERDECK LIGHTING
- 659.0400 LUMINAIRE HIGH MAST LIGHTING LED
- 659.1115 LUMINAIRES UTILITY LED A
- 659.1125 LUMINAIRES UTILITY LED C
- 659.1130 LUMINAIRES UTILITY LED D
- 659.1210 LUMINAIRES UNDERDECK LED B
- SPV.0060.02 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 175 MV
- SPV.0060.03 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 250 MV
- SPV.0060.04 LUMINAIRES PROBEAM LED
- SPV.0060.05 LUMINAIRES UTILITY 480V LED C
- SPV.0060.06 LUMINAIRES UTILITY 480V LED D
- SPV.0060.07 LUMINAIRES UNDERDECK 480V LED B
- SPV.0060.08 INSTALL STATE FURNISHED LUMINAIRE HIGH MAST LIGHTING LED

CATEGORY	STAGE	SYSTEM	DESCRIPTION / SEQUENCE	204.9060.S.02	204.9060.S.03	204.9060.S.04	204.9060.S.05	659.0400	659.1115	659.1125	659.1130	659.1210	SPV.0060.02	SPV.0060.03	SPV.0060.04	SPV.0060.05	SPV.0060.06	SPV.0060.07	SPV.0060.08	COMMENTS
				REMOVING LUMINAIRES HIGH MAST LIGHTING	REMOVING LUMINAIRES UTILITY	REMOVING LUMINAIRES UNDERDECK LIGHTING	REMOVING UNDERDECK LIGHTING	LUMINAIRE HIGH MAST LIGHTING LED	LUMINAIRES UTILITY LED A	LUMINAIRES UTILITY LED C	LUMINAIRES UTILITY LED D	LUMINAIRES UNDERDECK LED B	GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 175 MV	GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 250 MV	LUMINAIRES PROBEAM LED	LUMINAIRES UTILITY 480V LED C	LUMINAIRES UTILITY 480V LED D	LUMINAIRES UNDERDECK 480V LED B	INSTALL STATE FURNISHED LUMINAIRE HIGH MAST LIGHTING LED	
				EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	
0010	1	HL-40-CM	ACM1/BCM1	--	2	--	--	--	--	--	--	--	--	--	--	--	2	--	--	--
			ACM2/BCM2	--	2	--	--	--	--	--	--	--	--	--	--	--	2	--	--	--
			ACM3/BCM3	--	2	--	--	--	--	--	--	--	--	--	--	--	2	--	--	--
			ACM4/BCM4	--	2	--	--	--	--	--	--	--	--	--	--	--	2	--	--	MOUNTED ON SIGN STRUCTURE
			ACM5/BCM5	--	2	--	--	--	--	--	--	--	--	--	--	2	--	--		
			ACM6/BCM6	--	2	--	--	--	--	--	--	--	--	--	--	2	--	--		
			CCM1/DCM1	--	2	--	--	--	--	--	--	--	--	--	--	2	--	--		
			CCM2/DCM2	--	2	--	--	--	--	--	--	--	--	--	--	2	--	--		
			CCM3/DCM3	--	2	--	--	--	--	--	--	--	--	--	--	2	--	--	--	
			CCM4/DCM4	--	2	--	--	--	--	--	--	--	--	--	--	2	--	--	--	
			CCM5/DCM5	--	2	--	--	--	--	--	--	--	--	--	--	2	--	--	--	
			CCM6/DCM6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	CONCRETE BASE - NO LIGHTING UNIT	
			CCM7/DCM7	--	2	--	--	--	--	--	--	--	--	--	--	2	--	--		
			CCM10	--	1	--	--	--	--	--	--	--	--	--	--	1	--	--		
			CCM11	--	1	--	--	--	--	--	--	--	--	--	--	1	--	--	EXISTING LED C	
			CCM12	--	1	--	--	--	--	--	--	--	--	--	--	1	--	--	EXISTING LED C	
			CCM13	--	1	--	--	--	--	--	--	--	--	--	--	1	--	--	--	
			CCM14	--	1	--	--	--	--	--	--	--	--	--	--	1	--	--	--	
			CCM15	--	1	--	--	--	--	--	--	--	--	--	--	1	--	--	--	
			CCM16	--	1	--	--	--	--	--	--	--	--	--	--	1	--	--	--	
			CCM17	--	1	--	--	--	--	--	--	--	--	--	--	--	1	--	--	
			DCM10	--	1	--	--	--	--	--	--	--	--	--	--	1	--	--	EXISTING LED C	
			DCM11	--	1	--	--	--	--	--	--	--	--	--	--	1	--	--	--	
			DCM12	--	1	--	--	--	--	--	--	--	--	--	--	1	--	--	--	
			DCM13	--	1	--	--	--	--	--	--	--	--	--	--	1	--	--	--	
			DCM14	--	1	--	--	--	--	--	--	--	--	--	--	--	1	--	--	
			UDL FLORIST CIRC. B	--	2	--	1	--	--	--	--	--	--	--	--	--	--	2	--	FLORIST AVENUE OVER IH 41
HL-40-CM SUBTOTAL				0	39	0	1	0	0	0	0	0	0	0	0	11	26	2	0	

LIGHTING MAINTENANCE - HL-40-EG
240/480 VAC 3-WIRE GROUNDED NEUTRAL

204.9060.S.02 REMOVING LUMINAIRES HIGH MAST LIGHTING
204.9060.S.03 REMOVING LUMINAIRES UTILITY
204.9060.S.04 REMOVING LUMINAIRES UNDERDECK LIGHTING
204.9060.S.05 REMOVING UNDERDECK LIGHTING
659.0400 LUMINAIRE HIGH MAST LIGHTING LED
659.1115 LUMINAIRES UTILITY LED A
659.1125 LUMINAIRES UTILITY LED C
659.1130 LUMINAIRES UTILITY LED D
659.1210 LUMINAIRES UNDERDECK LED B
SPV.0060.02 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 175 MV
SPV.0060.03 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 250 MV
SPV.0060.04 LUMINAIRES PROBEAM LED
SPV.0060.05 LUMINAIRES UTILITY 480V LED C
SPV.0060.06 LUMINAIRES UTILITY 480V LED D
SPV.0060.07 LUMINAIRES UNDERDECK 480V LED B
SPV.0060.08 INSTALL STATE FURNISHED LUMINAIRE HIGH MAST LIGHTING LED

CATEGORY	STAGE	SYSTEM	DESCRIPTION / SEQUENCE	204.9060.S.02 REMOVING LUMINAIRES HIGH MAST LIGHTING	204.9060.S.03 REMOVING LUMINAIRES UTILITY	204.9060.S.04 REMOVING LUMINAIRES UNDERDECK LIGHTING	204.9060.S.05 REMOVING UNDERDECK LIGHTING	659.0400 LUMINAIRE HIGH MAST LIGHTING LED	659.1115 LUMINAIRES UTILITY LED A	659.1125 LUMINAIRES UTILITY LED C	659.1130 LUMINAIRES UTILITY LED D	659.1210 LUMINAIRES UNDERDECK LED B	SPV.0060.02 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 175 MV	SPV.0060.03 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 250 MV	SPV.0060.04 LUMINAIRES PROBEAM LED	SPV.0060.05 LUMINAIRES UTILITY 480V LED C	SPV.0060.06 LUMINAIRES UTILITY 480V LED D	SPV.0060.07 LUMINAIRES UNDERDECK 480V LED B	SPV.0060.08 INSTALL STATE FURNISHED LUMINAIRE HIGH MAST LIGHTING LED	COMMENTS	
				EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH		
0010	1	HL-40-EG	1EG4	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	EXISTING 100W HPS	
			1EG5	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"	
			1EG6	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"	
			1EG7	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"	
			1EG8	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"	
			1EG9	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	EXISTING 100W HPS	
			1EG10	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"	
			1EG11	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"	
			1EG12	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"	
			1EG13	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"	
			1EG14	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	EXISTING 100W HPS	
			1EG15	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"	
			1EG16	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"	
			1EG17	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	"	
			1EG18	--	1	--	--	--	--	--	1	--	1	--	--	--	--	--	--	"	
			1EG19	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	EXISTING 100W HPS	
			1EG20	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	"	
			1EG21	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	"	
			1EG22	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	"	
			1EG24	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	"	
			3EG9	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	EXISTING 100W HPS
			3EG10	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"
			3EG11	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"
			3EG12	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"
			3EG13	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"
			3EG14	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"
			3EG15	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	EXISTING 100W HPS
			3EG16	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"
			3EG17	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	EXISTING 100W HPS
			3EG18/4EG18	--	2	--	--	--	--	--	--	--	--	2	--	--	--	--	--	--	--
			3EG19/4EG19	--	2	--	--	--	--	--	--	--	--	2	--	--	--	--	--	--	--
			3EG20/4EG20	--	2	--	--	--	--	--	--	--	--	2	--	--	--	--	--	--	--
			3EG21/4EG21	--	2	--	--	--	--	--	--	--	--	2	--	--	--	--	--	--	--
			3EG22/4EG22	--	2	--	--	--	--	--	--	--	--	2	--	--	--	--	--	--	--
			3EG23/4EG23	--	2	--	--	--	--	--	--	--	--	2	--	--	--	--	--	--	--
			3EG24/4EG24	--	2	--	--	--	--	--	--	--	--	2	--	--	--	--	--	--	--
SUBTOTAL				0	43	0	0	0	0	27	16	0	0	0	0	0	0	0			

LIGHTING MAINTENANCE - HL-40-EG CONTINUED
240/480 VAC 3-WIRE GROUNDED NEUTRAL

204.9060.S.02 REMOVNG LUMNAIRES HIGH MAST LIGHTING
204.9060.S.03 REMOVNG LUMNAIRES UTILITY
204.9060.S.04 REMOVNG LUMNAIRES UNDERDECK LIGHTING
204.9060.S.05 REMOVNG UNDERDECK LIGHTING
659.0400 LUMNAIRE HIGH MAST LIGHTING LED
659.1115 LUMNAIRES UTILITY LED A
659.1125 LUMNAIRES UTILITY LED C
659.1130 LUMNAIRES UTILITY LED D
659.1210 LUMNAIRES UNDERDECK LED B
SPV.0060.02 GROUP LUMNAIRE MAINTENANCE SIGN LIGHT 175 MV
SPV.0060.03 GROUP LUMNAIRE MAINTENANCE SIGN LIGHT 250 MV
SPV.0060.04 LUMNAIRES PROBEAM LED
SPV.0060.05 LUMNAIRES UTILITY 480V LED C
SPV.0060.06 LUMNAIRES UTILITY 480V LED D
SPV.0060.07 LUMNAIRES UNDERDECK 480V LED B
SPV.0060.08 INSTALL STATE FURNISHED LUMNAIRE HIGH MAST LIGHTING LED

CATEGORY	STAGE	SYSTEM	DESCRIPTION / SEQUENCE	204.9060.S.02 REMOVNG LUMNAIRES HIGH MAST LIGHTING	204.9060.S.03 REMOVNG LUMNAIRES UTILITY	204.9060.S.04 REMOVNG LUMNAIRES UNDERDECK LIGHTING	204.9060.S.05 REMOVNG UNDERDECK LIGHTING	659.0400 LUMNAIRE HIGH MAST LIGHTING LED	659.1115 LUMNAIRES UTILITY LED A	659.1125 LUMNAIRES UTILITY LED C	659.1130 LUMNAIRES UTILITY LED D	659.1210 LUMNAIRES UNDERDECK LED B	SPV.0060.02 GROUP LUMNAIRE MAINTENANCE SIGN LIGHT 175 MV	SPV.0060.03 GROUP LUMNAIRE MAINTENANCE SIGN LIGHT 250 MV	SPV.0060.04 LUMNAIRES PROBEAM LED	SPV.0060.05 LUMNAIRES UTILITY 480V LED C	SPV.0060.06 LUMNAIRES UTILITY 480V LED D	SPV.0060.07 LUMNAIRES UNDERDECK 480V LED B	SPV.0060.08 INSTALL STATE FURNISHED LUMNAIRE HIGH MAST LIGHTING LED	COMMENTS
				EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	
0010	1	HL-40-EG	3EG25/4EG25	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--
			3EG28	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	EXISTING 100W/HPS
			3EG29	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	EXISTING 200W/HPS
			4EG5	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	EXISTING 200W/HPS
			4EG6	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	EXISTING 100W/HPS
			4EG7	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"
			4EG8	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"
			4EG12	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"
			4EG13	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"
			4EG14	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	EXISTING 200W/HPS
			5EG1/6EG1	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--
			5EG2/6EG2	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--
			5EG3/6EG3	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--
			5EG4/6EG4	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--
			5EG5/6EG5	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--
			5EG6/6EG6	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--
			5EG7/6EG7	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--
			5EG8/6EG8	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--
			5EG9/6EG9	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--
			S-40-356 CIRC. 1	--	--	--	--	--	--	--	--	--	2	--	--	--	--	--	--	SIGN LIGHTING - CLEAN AND RELAMP
			S-40-328 CIRC. 5/6	--	--	--	--	--	--	--	--	--	--	3	--	--	--	--	--	"
			UDL 107TH CIRC. 2	--	2	--	1	--	--	--	--	2	--	--	--	--	--	--	--	107TH STREET OVER STH 145
			UDL GOOD HOPE CIRC. 1/6	--	4	--	1	--	--	--	--	4	--	--	--	--	--	--	--	GOOD HOPE ROAD EB OVER STH 145
			UDL GOOD HOPE CIRC. 1/5	--	4	--	1	--	--	--	--	4	--	--	--	--	--	--	--	GOOD HOPE ROAD WB OVER STH 145
			SUBTOTAL	0	39	0	3	0	0	7	22	10	2	3	0	0	0	0	0	
		HL-40-EG	SUBTOTAL	0	82	0	3	0	0	34	38	10	2	3	0	0	0	0	0	

LIGHTING MAINTENANCE - HL-40-TE
240/480 VAC 3-WIRE GROUNDED NEUTRAL

204.9060.S.02 REMOVING LUMINAIRE HIGH MAST LIGHTING
204.9060.S.03 REMOVING LUMINAIRE UTILITY
204.9060.S.04 REMOVING LUMINAIRE UNDERDECK LIGHTING
204.9060.S.05 REMOVING UNDERDECK LIGHTING
659.0400 LUMINAIRE HIGH MAST LIGHTING LED
659.1115 LUMINAIRE UTILITY LED A
659.1125 LUMINAIRE UTILITY LED C
659.1130 LUMINAIRE UTILITY LED D
659.1210 LUMINAIRE UNDERDECK LED B
SPV.0060.02 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 175 MV
SPV.0060.03 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 250 MV
SPV.0060.04 LUMINAIRE PROBEAM LED
SPV.0060.05 LUMINAIRE UTILITY 480V LED C
SPV.0060.06 LUMINAIRE UTILITY 480V LED D
SPV.0060.07 LUMINAIRE UNDERDECK 480V LED B
SPV.0060.08 INSTALL STATE FURNISHED LUMINAIRE HIGH MAST LIGHTING LED

CATEGORY	STAGE	SYSTEM	DESCRIPTION / SEQUENCE	204.9060.S.02 REMOVING LUMINAIRES HIGH MAST LIGHTING	204.9060.S.03 REMOVING LUMINAIRES UTILITY	204.9060.S.04 REMOVING LUMINAIRES UNDERDECK LIGHTING	204.9060.S.05 REMOVING UNDERDECK LIGHTING	659.0400 LUMINAIRE HIGH MAST LIGHTING LED	659.1115 LUMINAIRES UTILITY LED A	659.1125 LUMINAIRES UTILITY LED C	659.1130 LUMINAIRES UTILITY LED D	659.1210 LUMINAIRES UNDERDECK LED B	SPV.0060.02 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 175 MV	SPV.0060.03 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 250 MV	SPV.0060.04 LUMINAIRES PROBEAM LED	SPV.0060.05 LUMINAIRES UTILITY 480V LED C	SPV.0060.06 LUMINAIRES UTILITY 480V LED D	SPV.0060.07 LUMINAIRES UNDERDECK 480V LED B	SPV.0060.08 INSTALL STATE FURNISHED LUMINAIRE HIGH MAST LIGHTING LED	COMMENTS		
				EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH			
0010	1	HL-40-TE	ATE1/BTE1	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--		
			ATE2/BTE2	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--		
			ATE3/BTE3	--	2	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	
			ATE4/BTE4	--	2	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	
			ATE5/BTE5	--	2	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	
			ATE6/BTE6	--	2	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	
			ATE7/BTE7	--	2	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	
			ATE8/BTE8	--	2	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	
			ATE9/BTE9	--	2	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	
			CTE21	--	1	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	
			CTE22/DTE22	--	2	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	
			CTE23/DTE23	--	2	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	
			CTE24/DTE24	--	2	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	
			CTE25/DTE25	--	2	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	
			CTE26	--	1	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	
			CTE27/DTE27	--	2	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	
			CTE28/DTE28	--	2	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	
			CTE29/DTE29	--	2	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	
			DTE21	--	1	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	
			DTE26	--	1	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	
			ETE11/FTE11	--	2	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	
			ETE12/FTE12	--	2	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	
			ETE13/FTE13	--	2	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	
			ETE14/FTE14	--	2	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	
			ETE15/FTE15	--	2	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	
			FTE10	--	1	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
			FTE16	--	1	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
			S-40-253 CIRC. A	--	--	--	--	--	--	--	--	--	--	--	--	2	--	--	--	--	--	--
HL-40-TE			SUBTOTAL	0	48	0	0	0	0	11	37	0	0	2	0	0	0	0	0			

LIGHTING MAINTENANCE - HL-40-KA
240/480 VAC 3-WIRE GROUNDED NEUTRAL

204.9060.S.02 REMOVING LUMINAIRES HIGH MAST LIGHTING
204.9060.S.03 REMOVING LUMINAIRES UTILITY
204.9060.S.04 REMOVING LUMINAIRES UNDERDECK LIGHTING
204.9060.S.05 REMOVING UNDERDECK LIGHTING
659.0400 LUMINAIRE HIGH MAST LIGHTING LED
659.1115 LUMINAIRES UTILITY LED A
659.1125 LUMINAIRES UTILITY LED C
659.1130 LUMINAIRES UTILITY LED D
659.1210 LUMINAIRES UNDERDECK LED B
SPV.0060.02 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 175 MV
SPV.0060.03 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 250 MV
SPV.0060.04 LUMINAIRES PROBEAM LED
SPV.0060.05 LUMINAIRES UTILITY 480V LED C
SPV.0060.06 LUMINAIRES UTILITY 480V LED D
SPV.0060.07 LUMINAIRES UNDERDECK 480V LED B
SPV.0060.08 INSTALL STATE FURNISHED LUMINAIRE HIGH MAST LIGHTING LED

CATEGORY	STAGE	SYSTEM	DESCRIPTION / SEQUENCE	204.9060.S.02 REMOVING LUMINAIRES HIGH MAST LIGHTING	204.9060.S.03 REMOVING LUMINAIRES UTILITY	204.9060.S.04 REMOVING LUMINAIRES UNDERDECK LIGHTING	204.9060.S.05 REMOVING UNDERDECK LIGHTING	659.0400 LUMINAIRE HIGH MAST LIGHTING LED	659.1115 LUMINAIRES UTILITY LED A	659.1125 LUMINAIRES UTILITY LED C	659.1130 LUMINAIRES UTILITY LED D	659.1210 LUMINAIRES UNDERDECK LED B	SPV.0060.02 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 175 MV	SPV.0060.03 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 250 MV	SPV.0060.04 LUMINAIRES PROBEAM LED	SPV.0060.05 LUMINAIRES UTILITY 480V LED C	SPV.0060.06 LUMINAIRES UTILITY 480V LED D	SPV.0060.07 LUMINAIRES UNDERDECK 480V LED B	SPV.0060.08 INSTALL STATE FURNISHED LUMINAIRE HIGH MAST LIGHTING LED	COMMENTS
				EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	
0010	1	HL-40-KA	AKA5	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
			AKA7	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	EXISTING 150WHPS
			AKA8	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"
			AKA10	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"
			AKA12	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	EXISTING 150WHPS
			AKA27/BKA27	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--
			AKA28/BKA28	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--
			AKA29/BKA29	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--
			AKA30/BKA30	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--
			AKA31	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
			AKA33/BKA33	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--
			AKA34/BKA34	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--
			BKA6	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	EXISTING 150WHPS
			BKA9	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	EXISTING 150WHPS
			BKA11	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	EXISTING 150WHPS
			BKA13	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
			BKA32	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
			CKA35/DKA35	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--
			CKA36/DKA36	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--
			CKA37/DKA37	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--
			CKA38/DKA38	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--
			CKA40	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
			CKA41/DKA41	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--
			CKA42/DKA42	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--
			CKA43/DKA43	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--
			CKA44/DKA44	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--
			CKA45/DKA45	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--
			DKA39	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
			EKA2	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	EXISTING 150WHPS
			EKA4	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
			FKA1	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	EXISTING 150WHPS
			FKA3	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	EXISTING 150WHPS
			S-40-254 CIRC. D	--	--	--	--	--	--	--	--	--	--	2	--	--	--	--	--	--
		HL-40-KA	SUBTOTAL	0	47	0	0	0	0	10	37	0	0	2	0	0	0	0	0	

LIGHTING MAINTENANCE - HL-40-SP
240/480 VAC 3-WIRE GROUNDED NEUTRAL

- 204.9060.S.02 REMOVING LUMNAIRES HIGH MAST LIGHTING
- 204.9060.S.03 REMOVING LUMNAIRES UTILITY
- 204.9060.S.04 REMOVING LUMNAIRES UNDERDECK LIGHTING
- 204.9060.S.05 REMOVING UNDERDECK LIGHTING
- 659.0400 LUMINAIRE HIGH MAST LIGHTING LED
- 659.1115 LUMINAIRES UTILITY LED A
- 659.1125 LUMINAIRES UTILITY LED C
- 659.1130 LUMINAIRES UTILITY LED D
- 659.1210 LUMINAIRES UNDERDECK LED B
- SPV.0060.02 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 175 MV
- SPV.0060.03 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 250 MV
- SPV.0060.04 LUMINAIRES PROBEAM LED
- SPV.0060.05 LUMINAIRES UTILITY 480V LED C
- SPV.0060.06 LUMINAIRES UTILITY 480V LED D
- SPV.0060.07 LUMINAIRES UNDERDECK 480V LED B
- SPV.0060.08 INSTALL STATE FURNISHED LUMINAIRE HIGH MAST LIGHTING LED

CATEGORY	STAGE	SYSTEM	DESCRIPTION / SEQUENCE	204.9060.S.02 REMOVING LUMNAIRES HIGH MAST LIGHTING	204.9060.S.03 REMOVING LUMNAIRES UTILITY	204.9060.S.04 REMOVING LUMNAIRES UNDERDECK LIGHTING	204.9060.S.05 REMOVING UNDERDECK LIGHTING	659.0400 LUMINAIRE HIGH MAST LIGHTING LED	659.1115 LUMNAIRES UTILITY LED A	659.1125 LUMNAIRES UTILITY LED C	659.1130 LUMNAIRES UTILITY LED D	659.1210 LUMNAIRES UNDERDECK LED B	SPV.0060.02 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 175 MV	SPV.0060.03 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 250 MV	SPV.0060.04 LUMNAIRES PROBEAM LED	SPV.0060.05 LUMINAIRES UTILITY 480V LED C	SPV.0060.06 LUMINAIRES UTILITY 480V LED D	SPV.0060.07 LUMINAIRES UNDERDECK 480V LED B	SPV.0060.08 INSTALL STATE FURNISHED LUMINAIRE HIGH MAST LIGHTING LED	COMMENTS	
				EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH		
0010	1	HL-40-SP	1SP10/2SP10	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	
			1SP11/2SP11	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	
			1SP17/2SP17	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	
			1SP18/2SP18	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	
			2SP1	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	EXISTING 100W HPS	
			2SP2	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	
			2SP3	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	
			2SP4	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	
			2SP5	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	
			2SP6	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	EXISTING 100W HPS	
			2SP7	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	
			2SP8	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	
			2SP9	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	
			2SP12	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	
			2SP13	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	EXISTING 100W HPS	
			2SP14	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	
			2SP15	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	
			2SP16	--	1	--	--	--	--	--	--	1	--	--	--	--	--	--	--	EXISTING 100W HPS	
			2SP23	--	1	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	
			2SP24	--	1	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	
			2SP25	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	
			2SP26	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	
			3SP18/4SP18	--	2	--	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--
			3SP19/4SP19	--	2	--	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--
			3SP20/4SP20	--	2	--	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--
			3SP21/4SP21	--	2	--	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--
			3SP22/4SP22	--	2	--	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--
			3SP23/4SP23	--	2	--	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--
			3SP24/4SP24	--	2	--	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--
			3SP25/4SP25	--	2	--	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--
SUBTOTAL				0	42	0	0	0	0	14	28	0	0	0	0	0	0	0	0		

LIGHTING MAINTENANCE - HL-40-SP CONTINUED
240/480 VAC 3-WIRE GROUNDED NEUTRAL

204.9060.S.02 REMOVING LUMNAIRES HIGH MAST LIGHTING
204.9060.S.03 REMOVING LUMNAIRES UTILITY
204.9060.S.04 REMOVING LUMNAIRES UNDERDECK LIGHTING
204.9060.S.05 REMOVING UNDERDECK LIGHTING
659.0400 LUMNAIRE HIGH MAST LIGHTING LED
659.1115 LUMNAIRES UTILITY LED A
659.1125 LUMNAIRES UTILITY LED C
659.1130 LUMNAIRES UTILITY LED D
659.1210 LUMNAIRES UNDERDECK LED B
SPV.0060.02 GROUP LUMNAIRE MAINTENANCE SIGN LIGHT 175 MV
SPV.0060.03 GROUP LUMNAIRE MAINTENANCE SIGN LIGHT 250 MV
SPV.0060.04 LUMNAIRES PROBEAM LED
SPV.0060.05 LUMNAIRES UTILITY 480V LED C
SPV.0060.06 LUMNAIRES UTILITY 480V LED D
SPV.0060.07 LUMNAIRES UNDERDECK 480V LED B
SPV.0060.08 INSTALL STATE FURNISHED LUMNAIRE HIGH MAST LIGHTING LED

CATEGORY	STAGE	SYSTEM	DESCRIPTION / SEQUENCE	204.9060.S.02 REMOVING LUMNAIRES HIGH MAST LIGHTING	204.9060.S.03 REMOVING LUMNAIRES UTILITY	204.9060.S.04 REMOVING LUMNAIRES UNDERDECK LIGHTING	204.9060.S.05 REMOVING UNDERDECK LIGHTING	659.0400 LUMNAIRE HIGH MAST LIGHTING LED	659.1115 LUMNAIRES UTILITY LED A	659.1125 LUMNAIRES UTILITY LED C	659.1130 LUMNAIRES UTILITY LED D	659.1210 LUMNAIRES UNDERDECK LED B	SPV.0060.02 GROUP LUMNAIRE MAINTENANCE SIGN LIGHT 175 MV	SPV.0060.03 GROUP LUMNAIRE MAINTENANCE SIGN LIGHT 250 MV	SPV.0060.04 LUMNAIRES PROBEAM LED	SPV.0060.05 LUMNAIRES UTILITY 480V LED C	SPV.0060.06 LUMNAIRES UTILITY 480V LED D	SPV.0060.07 LUMNAIRES UNDERDECK 480V LED B	SPV.0060.08 INSTALL STATE FURNISHED LUMNAIRE HIGH MAST LIGHTING LED	COMMENTS			
				EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH				
0010	1	HL-40-SP	3SP26/4SP26	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--			
			5SP2	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	EXISTING 100W HPS		
			5SP3	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	"	
			5SP4	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	"	
			5SP5	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	"	
			5SP6	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	"	
			5SP7	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	"	
			5SP8	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	"	
			5SP9	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	EXISTING 100W HPS	
			5SP10	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	"	
			5SP11	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	"	
			5SP12	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	"	
			5SP13	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	"	
			5SP14	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	EXISTING 100W HPS	
			5SP15	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	"	
			5SP16	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	"	
			5SP17	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	"	
			5SP18	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	"	
			5SP19	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	EXISTING 100W HPS	
			5SP20	--	1	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	
			S-40-25 CIRC. 5	--	--	--	--	--	--	--	--	--	--	--	--	2	--	--	--	--	--	--	
			S-40-369 CIRC. 2	--	--	--	--	--	--	--	--	--	--	--	--	2	--	--	--	--	--	--	
			UDL SILVER SPRING CIRC. 2/5	--	4	--	1	--	--	--	--	--	--	--	4	--	--	--	--	--	--	--	SILVER SPRING DRIVE EB OVER STH 145
			UDL SILVER SPRING CIRC. 2/5	--	4	--	1	--	--	--	--	--	--	--	4	--	--	--	--	--	--	--	SILVER SPRING DRIVE WB OVER STH 145
SUBTOTAL				0	29	0	2	0	0	18	3	8	0	4	0	0	0	0	0				
			HL-40-SP	SUBTOTAL	0	71	0	2	0	0	32	31	8	0	4	0	0	0	0	0			

LIGHTING MAINTENANCE - HL-40-RA
240/480 VAC 3-WIRE GROUNDED NEUTRAL

- 204.9060.S.02 REMOVING LUMNAIRES HIGH MAST LIGHTING
- 204.9060.S.03 REMOVING LUMNAIRES UTILITY
- 204.9060.S.04 REMOVING LUMNAIRES UNDERDECK LIGHTING
- 204.9060.S.05 REMOVING UNDERDECK LIGHTING
- 659.0400 LUMNAIRE HIGH MAST LIGHTING LED
- 659.1115 LUMNAIRES UTILITY LED A
- 659.1125 LUMNAIRES UTILITY LED C
- 659.1130 LUMNAIRES UTILITY LED D
- 659.1210 LUMNAIRES UNDERDECK LED B
- SPV.0060.02 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 175 MV
- SPV.0060.03 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 250 MV
- SPV.0060.04 LUMNAIRES PROBEAM LED
- SPV.0060.05 LUMNAIRES UTILITY 480V LED C
- SPV.0060.06 LUMNAIRES UTILITY 480V LED D
- SPV.0060.07 LUMNAIRES UNDERDECK 480V LED B
- SPV.0060.08 INSTALL STATE FURNISHED LUMINAIRE HIGH MAST LIGHTING LED

CATEGORY	STAGE	SYSTEM	DESCRIPTION / SEQUENCE	204.9060.S.02 REMOVING LUMNAIRES HIGH MAST LIGHTING	204.9060.S.03 REMOVING LUMNAIRES UTILITY	204.9060.S.04 REMOVING LUMNAIRES UNDERDECK LIGHTING	204.9060.S.05 REMOVING UNDERDECK LIGHTING	659.0400 LUMNAIRE HIGH MAST LIGHTING LED	659.1115 LUMNAIRES UTILITY LED A	659.1125 LUMNAIRES UTILITY LED C	659.1130 LUMNAIRES UTILITY LED D	659.1210 LUMNAIRES UNDERDECK LED B	SPV.0060.02 GROUP LUMNAIRE MAINTENANCE SIGN LIGHT 175 MV	SPV.0060.03 GROUP LUMNAIRE MAINTENANCE SIGN LIGHT 250 MV	SPV.0060.04 LUMNAIRES PROBEAM LED	SPV.0060.05 LUMNAIRES UTILITY 480V LED C	SPV.0060.06 LUMNAIRES UTILITY 480V LED D	SPV.0060.07 LUMNAIRES UNDERDECK 480V LED B	SPV.0060.08 INSTALL STATE FURNISHED LUMINAIRE HIGH MAST LIGHTING LED	COMMENTS
				EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	
0010	1	HL-40-RA	1RA1	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	EXISTING 100W HPS
			1RA25/2RA25	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--
			1RA26/2RA26	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--
			1RA27/2RA27	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--
			1RA28/2RA28	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--
			1RA29/2RA29	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--
			1RA30/2RA30	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--
			1RA31/2RA31	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--
			1RA32/2RA32	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--
			1RA33/2RA33	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--
			1RA34/2RA34	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--
			1RA35/2RA35	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--
			1RA36/2RA36	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--
			2RA2	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	EXISTING 100W HPS
			2RA3	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"
			2RA4	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"
			2RA5	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"
			3RA9	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	"
			3RA10	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"
			3RA11	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"
			SUBTOTAL	0	32	0	0	0	0	5	27	0	0	0	0	0	0	0	0	

LIGHTING MAINTENANCE - HL-40-RA CONTINUED
240/480 VAC 3-WIRE GROUNDED NEUTRAL

204.9060.S.02 REMOVING LUMNAIRES HIGH MAST LIGHTING
204.9060.S.03 REMOVING LUMNAIRES UTILITY
204.9060.S.04 REMOVING LUMNAIRES UNDERDECK LIGHTING
204.9060.S.05 REMOVING UNDERDECK LIGHTING
659.0400 LUMNAIRE HIGH MAST LIGHTING LED
659.1115 LUMNAIRES UTILITY LED A
659.1125 LUMNAIRES UTILITY LED C
659.1130 LUMNAIRES UTILITY LED D
659.1210 LUMNAIRES UNDERDECK LED B
SPV.0060.02 GROUP LUMNAIRE MAINTENANCE SIGN LIGHT 175 MV
SPV.0060.03 GROUP LUMNAIRE MAINTENANCE SIGN LIGHT 250 MV
SPV.0060.04 LUMNAIRES PROBEAM LED
SPV.0060.05 LUMNAIRES UTILITY 480V LED C
SPV.0060.06 LUMNAIRES UTILITY 480V LED D
SPV.0060.07 LUMNAIRES UNDERDECK 480V LED B
SPV.0060.08 INSTALL STATE FURNISHED LUMNAIRE HIGH MAST LIGHTING LED

CATEGORY	STAGE	SYSTEM	DESCRIPTION / SEQUENCE	204.9060.S.02 REMOVING LUMNAIRES HIGH MAST LIGHTING	204.9060.S.03 REMOVING LUMNAIRES UTILITY	204.9060.S.04 REMOVING LUMNAIRES UNDERDECK LIGHTING	204.9060.S.05 REMOVING UNDERDECK LIGHTING	659.0400 LUMNAIRE HIGH MAST LIGHTING LED	659.1115 LUMNAIRES UTILITY LED A	659.1125 LUMNAIRES UTILITY LED C	659.1130 LUMNAIRES UTILITY LED D	659.1210 LUMNAIRES UNDERDECK LED B	SPV.0060.02 GROUP LUMNAIRE MAINTENANCE SIGN LIGHT 175 MV	SPV.0060.03 GROUP LUMNAIRE MAINTENANCE SIGN LIGHT 250 MV	SPV.0060.04 LUMNAIRES PROBEAM LED	SPV.0060.05 LUMNAIRES UTILITY 480V LED C	SPV.0060.06 LUMNAIRES UTILITY 480V LED D	SPV.0060.07 LUMNAIRES UNDERDECK 480V LED B	SPV.0060.08 INSTALL STATE FURNISHED LUMNAIRE HIGH MAST LIGHTING LED	COMMENTS			
				EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH				
0010	1	HL-40-RA	3RA12	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	"		
			3RA13	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"		
			3RA14	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	EXISTING 100W HPS	
			3RA20/4RA20	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	--		
			3RA21/4RA21	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	--		
			3RA22/4RA22	--	2	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	--		
			3RA23/4RA23	--	2	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	--	
			3RA24/4RA24	--	2	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	--	
			3RA25/4RA25	--	2	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	--	
			3RA26/4RA26	--	2	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	--	
			3RA27/4RA27	--	2	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	--	
			5RA1	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	EXISTING 100W HPS	
			5RA2	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--		
			5RA3	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--		"
			5RA4	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--		"
			5RA5	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	EXISTING 100W HPS
			5RA6	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	"	
			5RA7	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	
			5RA8	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	
			5RA9	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--
SUBTOTAL				0	28	0	0	0	0	12	16	0	0	0	0	0	0	0	0				

LIGHTING MAINTENANCE - HL-40-RA CONTINUED
240/480 VAC 3-WIRE GROUNDED NEUTRAL

204.9060.S.02 REMOVING LUMINAIRES HIGH MAST LIGHTING
204.9060.S.03 REMOVING LUMINAIRES UTILITY
204.9060.S.04 REMOVING LUMINAIRES UNDERDECK LIGHTING
204.9060.S.05 REMOVING UNDERDECK LIGHTING

659.0400 LUMINAIRE HIGH MAST LIGHTING LED
659.1115 LUMINAIRES UTILITY LED A
659.1125 LUMINAIRES UTILITY LED C
659.1130 LUMINAIRES UTILITY LED D
659.1210 LUMINAIRES UNDERDECK LED B
SPV.0060.02 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 175 MV
SPV.0060.03 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 250 MV
SPV.0060.04 LUMINAIRES PROBEAM LED
SPV.0060.05 LUMINAIRES UTILITY 480V LED C
SPV.0060.06 LUMINAIRES UTILITY 480V LED D
SPV.0060.07 LUMINAIRES UNDERDECK 480V LED B
SPV.0060.08 INSTALL STATE FURNISHED LUMINAIRE HIGH MAST LIGHTING LED

CATEGORY	STAGE	SYSTEM	DESCRIPTION / SEQUENCE	204.9060.S.02 REMOVING LUMINAIRES HIGH MAST LIGHTING	204.9060.S.03 REMOVING LUMINAIRES UTILITY	204.9060.S.04 REMOVING LUMINAIRES UNDERDECK LIGHTING	204.9060.S.05 REMOVING UNDERDECK LIGHTING	659.0400 LUMINAIRE HIGH MAST LIGHTING LED	659.1115 LUMINAIRES UTILITY LED A	659.1125 LUMINAIRES UTILITY LED C	659.1130 LUMINAIRES UTILITY LED D	659.1210 LUMINAIRES UNDERDECK LED B	SPV.0060.02 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 175 MV	SPV.0060.03 GROUP LUMINAIRE MAINTENANCE SIGN LIGHT 250 MV	SPV.0060.04 LUMINAIRES PROBEAM LED	SPV.0060.05 LUMINAIRES UTILITY 480V LED C	SPV.0060.06 LUMINAIRES UTILITY 480V LED D	SPV.0060.07 LUMINAIRES UNDERDECK 480V LED B	SPV.0060.08 INSTALL STATE FURNISHED LUMINAIRE HIGH MAST LIGHTING LED	COMMENTS
				EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	
0010	1	HL-40-RA	5RA10	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
			5RA11	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
			5RA12	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
			5RA14	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
			5RA15	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	EXISTING 100WHPS
			5RA16	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"
			5RA17	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"
			5RA18	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"
			5RA19	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"
			5RA20	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"
			5RA21	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"
			5RA22	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"
			5RA23	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"
			5RA24	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"
			5RA25	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"
			5RA26	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	"
			5RA27	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	"
			5RA28	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	EXISTING 100WHPS
			S-40-024 CIRC. 1	--	--	--	--	--	--	--	--	--	3	--	--	--	--	--	--	--
			UDL 76TH CIRC. 3/4/5	--	6	--	1	--	--	--	--	6	--	--	--	--	--	--	--	76TH STREET EB OVER STH 145
			UDL 76TH CIRC. 3/5	--	6	--	1	--	--	--	--	6	--	--	--	--	--	--	--	76TH STREET WB OVER STH 145
			UDL GRANTOSA CIRC. 1/2	--	4	--	1	--	--	--	--	4	--	--	--	--	--	--	--	GRANTOSA DRIVE EB OVER STH 145
			UDL GRANTOSA CIRC. 1/2	--	4	--	1	--	--	--	--	4	--	--	--	--	--	--	--	GRANTOSA DRIVE EB OVER STH 145
			SUBTOTAL	0	38	0	4	0	0	17	1	20	3	0	0	0	0	0	0	
		HL-40-RA	SUBTOTAL	0	98	0	4	0	0	34	44	20	3	0	0	0	0	0	0	
0010			TOTAL	36	800	20	13	24	0	241	330	54	5	22	12	57	106	6	42	

LIGHTING - UNDERDECK LIGHTING

CATEGORY	STAGE	SYSTEM	ITEMNUMBER	DESCRIPTION	UNITS	QUANTITY	COMMENTS
0010	1	HL-40-CS	--	UNDERDECK LIGHTING (COLLEGE AVENUE / IH 94)	--	--	INSTALLED 2011 / I.D. 1030-20-72
		HL-40-GH	--	UNDERDECK LIGHTING (GOOD HOPE ROAD EB / IH 43)	--	--	INSTALLED 2010 / I.D. 1228-17-70
			--	UNDERDECK LIGHTING (GOOD HOPE ROAD WB / IH 43)	--	--	"
		HL-40-HM	659.0600.01	UNDERDECK LIGHTING (HAMPTON AVENUE / IH 41)	LS	1	INSTALLED 2000 / I.D. 1100-10-74
		HL-40-SL	659.0600.02	UNDERDECK LIGHTING (IH 41 SB / SILVER SPRING DRIVE)	LS	1	INSTALLED 1999 / I.D. 1100-07-96
			659.0600.03	UNDERDECK LIGHTING (IH 41 NB / SILVER SPRING DRIVE)	LS	1	"
		HL-40-CM	659.0600.04	UNDERDECK LIGHTING (FLORIST AVENUE / IH 41)	LS	1	INSTALLED 2000 / I.D. 1100-10-74
		HL-40-EG	659.0600.05	UNDERDECK LIGHTING (107TH STREET / STH 145)	LS	1	INSTALLED 1999 / I.D. 1000-63-93
			659.0600.06	UNDERDECK LIGHTING (GOOD HOPE ROAD EB / STH 145)	LS	1	"
			659.0600.07	UNDERDECK LIGHTING (GOOD HOPE ROAD WB / STH 145)	LS	1	"
		HL-40-SP	659.0600.08	UNDERDECK LIGHTING (SILVER SPRING DRIVE EB / STH 145)	LS	1	INSTALLED 1999 / I.D. 1000-63-93
			659.0600.09	UNDERDECK LIGHTING (SILVER SPRING DRIVE WB / STH 145)	LS	1	"
		HL-40-RA	659.0600.10	UNDERDECK LIGHTING (76TH STREET WB / IH 145)	LS	1	INSTALLED 1999 / I.D. 1000-63-93
			659.0600.11	UNDERDECK LIGHTING (76TH STREET EB / STH 145)	LS	1	"
			659.0600.12	UNDERDECK LIGHTING (GRANTOSA DRIVE EB / STH 145)	LS	1	"
			659.0600.13	UNDERDECK LIGHTING (GRANTOSA DRIVE WB / STH 145)	LS	1	"
0010	1						

LIGHTING - TUNNEL LIGHTING

- 652.0225* CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH
- 655.0610* ELECTRICAL WIRE LIGHTING 12 AWG
- 655.0615 ELECTRICAL WIRE LIGHTING 10 AWG
- SPV.0060.14 LUMINAIRE TUNNEL LIGHTING LED (DAYTIME)
- SPV.0060.15 LUMINAIRE TUNNEL LIGHTING LED (NIGHTTIME)
- SPV.0060.16 JUNCTION BOXES STEEL 18 X 12 X 6-INCH COATED
- SPV.0060.17 JUNCTION BOXES STEEL 6 X 6 X 4-INCH
- SPV.0090.01 LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT 3/4-INCH
- SPV.0090.02 RIGID GALVANIZED STEEL CONDUIT 1-INCH COATED
- SPV.0090.03 RIGID GALVANIZED STEEL CONDUIT 1 1/4-INCH COATED

CATEGORY	STAGE	SYSTEM	DESCRIPTION	FUNCTION	652.0225* CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	655.0610* ELECTRICAL WIRE LIGHTING 12 AWG	655.0615 ELECTRICAL WIRE LIGHTING 10 AWG	SPV.0060.14 LUMINAIRE TUNNEL LIGHTING LED (DAYTIME)	SPV.0060.15 LUMINAIRE TUNNEL LIGHTING LED (NIGHTTIME)	SPV.0060.16 JUNCTION BOXES STEEL 18X12X6-INCH COATED	SPV.0060.17 JUNCTION BOXES STEEL 6X6X4-INCH COATED	SPV.0090.01 LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT 3/4-INCH	SPV.0090.02 RIGID GALVANIZED STEEL CONDUIT 1-INCH	SPV.0090.03 RIGID GALVANIZED STEEL CONDUIT 1 1/4-INCH	COMMENTS
					EACH	LF	EACH	EACH	EACH	EACH	EACH	LF	LF	LF	
0010	1	HL-40-TZ	B-40-821	TO TUNNEL	1,000	--	12,500	--	--	--	--	--	--	--	FROM THE CONTROLLER HL-40-TZ
					1,000	--	12,500	--	--	--	--	--	--	--	--
				POWER IN TUNNEL	--	2,100	9,675	164	11	110	11	1,050	1,290	1,290	--
					--	2,100	9,675	164	11	110	11	1,050	1,290	1,290	--
				DIMMING IN TUNNEL	--	--	--	--	--	--	--	--	--	--	FIXTURE WITH DIMMING CAPABILITIES
0010		HL-40-TZ		TOTAL	2,000	4,200	44,350	328	22	220	22	2,100	2,580	2,580	

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

LIGHTING - MAINTENANCE GROUP CABINET, LUMNAIRE MAINTENANCE AND UNDISTRIBUTED ITEMS

- 655.061
- ELECTRICAL WIRE LIGHTING 12 AWG
- 659.1115
- LUMNAIRES UTILITY LED A
- SPV.0060.01
- DISTRIBUTION CENTER PREVENTIVE MAINTENANCE
- SPV.0060.09
- PLAQUES SEQUENCE IDENTIFICATION
- SPV.0060.10
- LIGHT TOWER RAT SCREEN
- SPV.0060.11
- FUSE HOLDERS
- SPV.0060.12
- FUSES TYPE FNQ LED
- SPV.0060.13
- PLUMBING LIGHT POLES

CATEGORY	STAGE	SYSTEM/ LABEL	HIGHWAY AND SEGMENT	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG	659.1115 LUMNAIRES UTILITY LED A	SPV.0060.01 DISTRIBUTION CENTER PREVENTIVE MAINTENANCE	SPV.0060.09 PLAQUES SEQUENCE IDENTIFICATION	SPV.0060.10 LIGHT TOWER RAT SCREEN	SPV.0060.11 FUSE HOLDERS	SPV.0060.12 FUSES TYPE FNQ	SPV.0060.13 PLUMBING LIGHT POLES	COMMENTS
				LF	EACH	EACH	EACH	EACH	EACH	EACH	EACH	
0010	1	HL-40-CS	IH 94	200	--	1	10	1	1	1	2	--
		HL-40-CN	IH 94	200	--	1	10	1	1	1	2	--
		HL-40-BC	IH 43 / IH 94	200	--	1	10	1	1	1	2	--
		HL-40-GN	IH 43 / IH 94	200	--	1	10	1	1	1	2	--
		HL-40-GH	IH 43	200	--	1	10	1	1	1	2	--
		HL-40-TZ	IH 43 / IH 94	--	--	1	--	--	--	--	--	POWERS TUNNEL #3
		HL-40-EH	IH 894 / IH 41 / IH 43	200	--	1	10	1	1	1	2	
		HL-40-RT	IH 41 / IH 894	200	--	1	10	1	1	1	2	
		HL-40-CO	IH 41 / IH 894	200	--	1	10	1	1	1	2	
		HL-40-MY	IH 41 / USH 45	200	--	1	10	1	1	1	2	
		HL-40-BS	IH 41 / USH 45	200	--	1	10	1	1	1	2	--
		HL-40-CC	IH 41 / USH 45	200	--	1	10	1	1	1	2	--
		HL-40-HM	IH 41 / USH 45	200	--	1	10	1	1	1	2	--
		HL-40-SL	IH 41 / USH 45	200	--	1	10	1	1	1	2	--
		HL-40-CM	IH 41 / USH 45	200	--	1	10	1	1	1	2	--
		HL-40-EG	STH 145	200	2	1	10	1	1	1	2	--
		HL-40-TE	STH 145	200	2	1	10	1	1	1	2	--
		HL-40-KA	STH 145	200	2	1	10	1	1	1	2	--
		HL-40-SP	STH 145	200	2	1	10	1	1	1	2	--
		HL-40-RA	STH 145	200	2	1	10	1	1	1	2	--
		0010	TOTAL	3,800	10	20	190	19	19	19	38	

Standard Detail Drawing List

09B16-01	PULL BOX NON-CONDUCTIVE
09C14-03	CONCRETE CONTROL CABINET BASE, TYPE L
09D05-02	L30 LIGHTING CONTROL CABINET 240/480 VOLT
10A02-03	IDENTIFICATION PLAQUES LIGHT POLES
10A04-03	IDENTIFICATION PLAQUES UNDERDECK AND HIGH MAST LIGHTING
10A14-03A	ELECTRICAL DETAILS HIGH MAST LIGHTING
10A14-03B	ELECTRICAL DETAILS HIGH MAST LIGHTING
10A15-04A	ELECTRICAL DETAILS UNDERDECK LIGHTING
10A15-04B	ELECTRICAL DETAILS UNDERDECK LIGHTING
15C02-07A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-07B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-07C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-06	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15D03-05	TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H. WITH BARRIER
15D14-03	TRAFFIC CONTROL, TWO LANE CLOSURE ON FREEWAY OR EXPRESSWAY, SHORT-TERM (LESS THAN 24 HOURS)
15D15-04C	TRAFFIC CONTROL, TAPERED ENTRANCE RAMP WITHIN LANE CLOSURE
15D15-04E	TRAFFIC CONTROL, PARALLEL EXIT RAMP WITHIN LANE CLOSURE
15D16-04	TRAFFIC CONTROL, EXIT RAMP CLOSURE
15D27-03	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

DIMENSION IN INCHES		NON-CONDUCTIVE PULL BOX	
BOX DIAMETER ** (INSIDE)	A	24	24
BOX OVERALL OUTSIDE DIAMETER	B	27	27
BOX LENGTH	C	36	42
FRAME OPENING	D	22 1/2	22 1/2
WEIGHT IN POUNDS *			
COVER		50	50
BOX ONLY		75	85

* THE ACTUAL WEIGHT OF THE COVER OR BOX ONLY MAY VARY NOT TO EXCEED 100 LBS INDIVIDUALLY.

** DIAMETER VARIES FROM TOP TO BOTTOM WITH THE DIAMETER LARGER AT THE BOTTOM TO PREVENT FROST HEAVE

GENERAL NOTES

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

ALL BOXES, FRAMES AND COVERS SHALL BE SUITABLE FOR TIER 15 LOADING AS SPECIFIED IN ANSI/SCTE 77.

PROVIDE AN OPENING FOR TOOL ASSISTED COVER REMOVAL NOT LARGE ENOUGH TO PERMIT PASSAGE OF A SPHERE MORE THAN 1/2" DIAMETER

ENSURE COVER SURFACE IS SKID RESISTANT WITH A COEFFICIENT OF FRICTION OF AT LEAST 0.5 AND VERTICAL SURFACE DISCONTINUITIES LESS THAN 1/4".

COVER SHALL BE MAGNETICALLY LOCATABLE.

BOXES AND EXTENSIONS ARE TRIMMABLE FOR CUSTOM LENGTHS. TRIMMED PIECES SHALL MAINTAIN A UNIFORM LENGTH.

ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4".

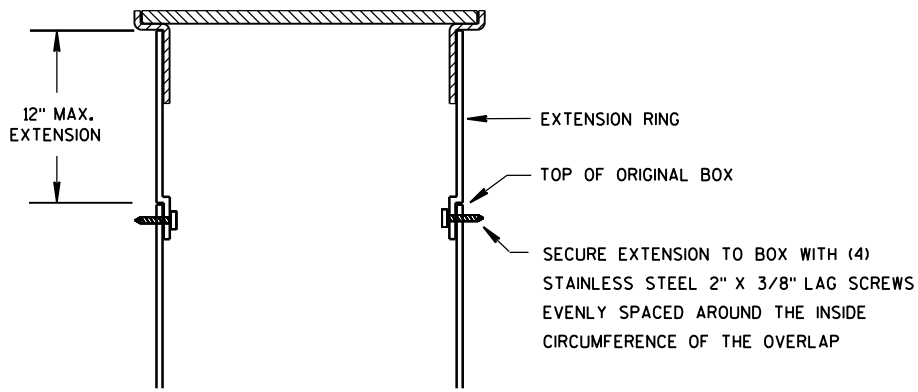
THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

ENTIRE BOX MUST BE CONSTRUCTED OF NON-CONDUCTIVE MATERIALS WITH THE EXCEPTION OF STAINLESS STEEL FASTENERS AND MAGNETIC LOCATABLE DEVICE.

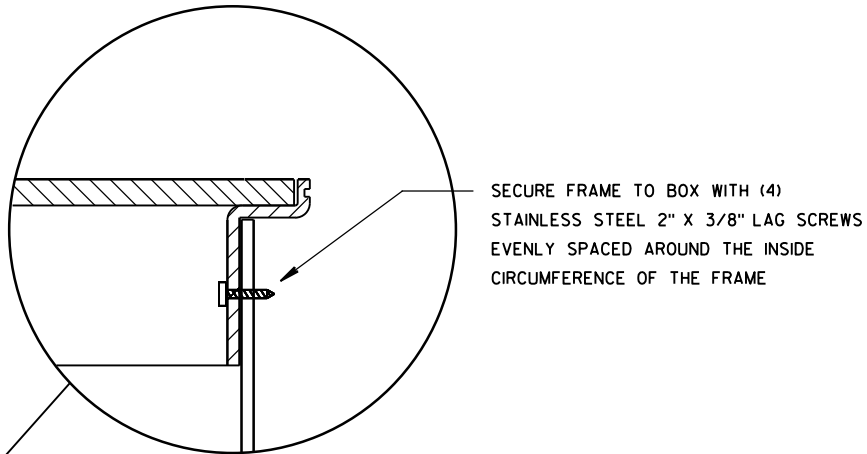
WHEN A PULL BOX IS INSTALLED IN CRUSHED AGGREGATE SHOULDERS, PLACE IT 2-3 INCHES BELOW GRADE AND COVER IT WITH 2-3 INCHES OF CRUSHED AGGREGATE

LABEL ON COVER SHALL READ "ELECTRIC" FOR SIGNAL AND LIGHTING SYSTEMS, "WISDOT ITS" FOR COMMUNICATIONS AND ITS EQUIPMENT SYSTEMS.

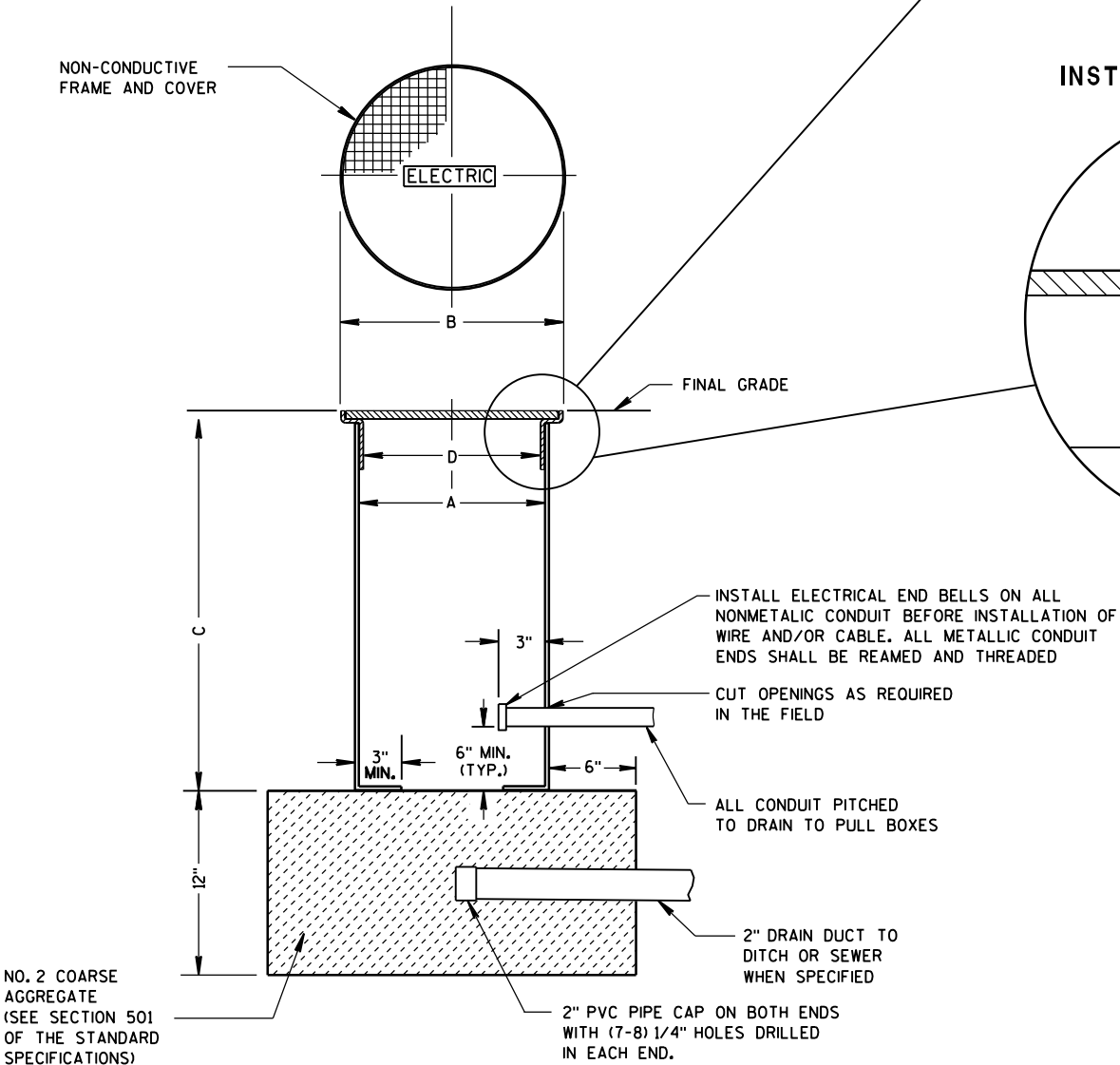
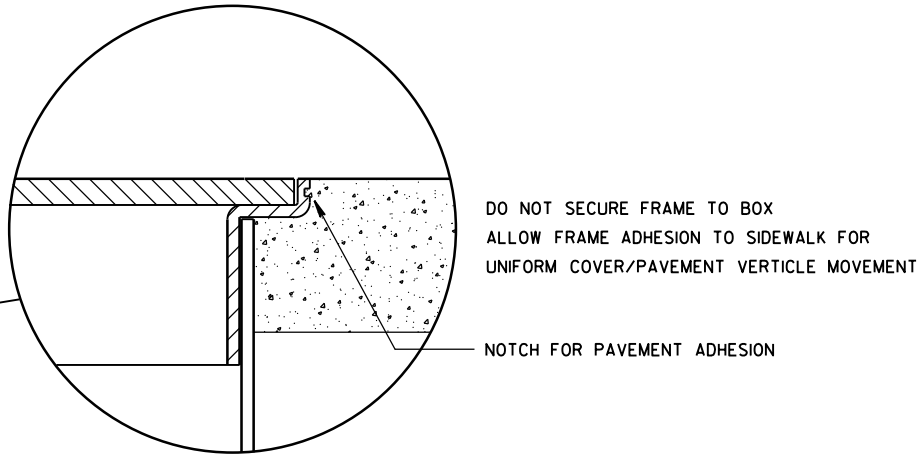


BOX EXTENSION

INSTALLED IN SOD OR CRUSHED AGGREGATE

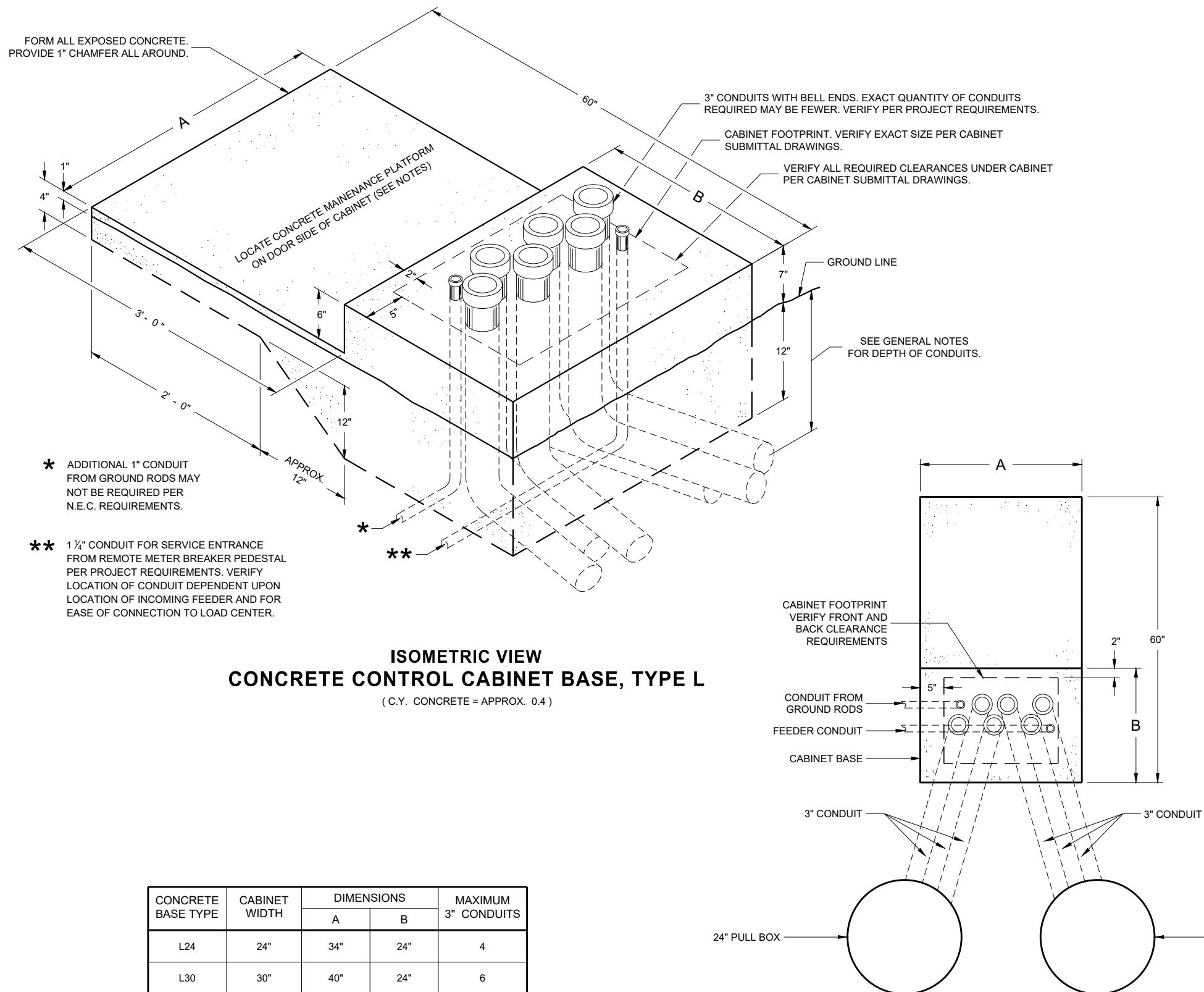


INSTALLED IN SIDEWALK



NON-CONDUCTIVE PULL BOX

PULL BOX NON-CONDUCTIVE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May 2017 DATE	/S/ Ahmet Demirbilek STATE ELECTRICAL 131
FHWA	



**PLAN VIEW
CONCRETE CONTROL CABINET BASE, TYPE L**

GENERAL NOTES

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

INSTALL FOUR STAINLESS STEEL APPROVED CONCRETE MASONRY ANCHORS TO ANCHOR THE CABINET BASES. THE ANCHORS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

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

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

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

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

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

LOCATIONS SHALL BE AS SHOWN ON THE PLANS UNLESS DETERMINED BY THE ENGINEER IN THE FIELD.

CONTROL CABINET BASE TOP SURFACE SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

MAINTENANCE PLATFORM SHALL BE FLOAT OR BROOM FINISHED AND LEVEL.

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

MINIMUM BENDING RADIUS OF CONDUIT EQUALS 6 TIMES THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

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

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

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

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

CONDUIT EXITING THE CONCRETE BASE SHALL TERMINATE IN PULL BOXES AS SHOWN ON THE PLANS.

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

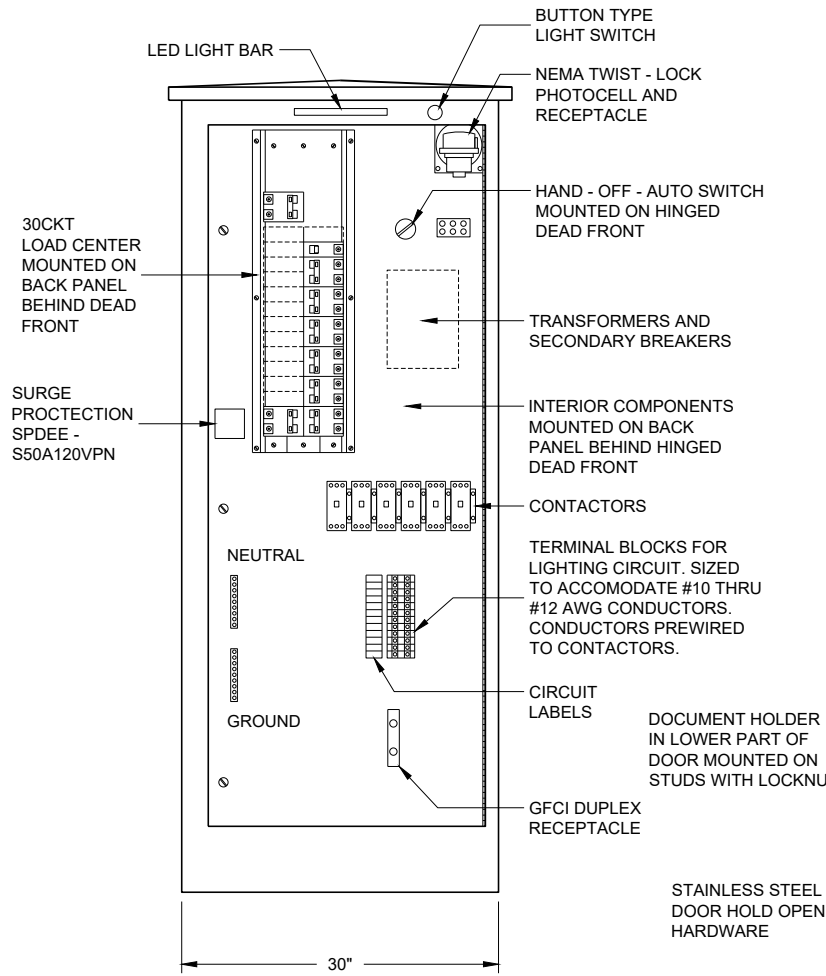
BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

CONCRETE CONTROL CABINET BASE, TYPE L

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

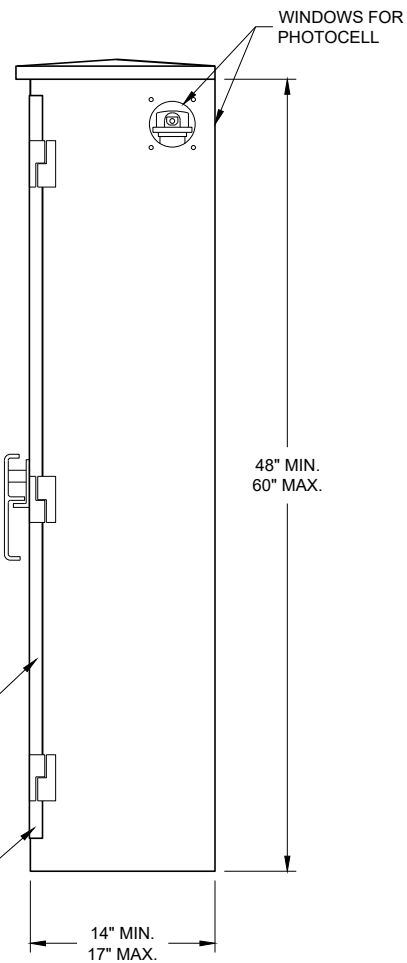
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November 2018 /S/ Ahmet Demirbilek
DATE STATE ELECTRICAL ENGI 132
FHWA

FRONT INTERIOR ELEVATION

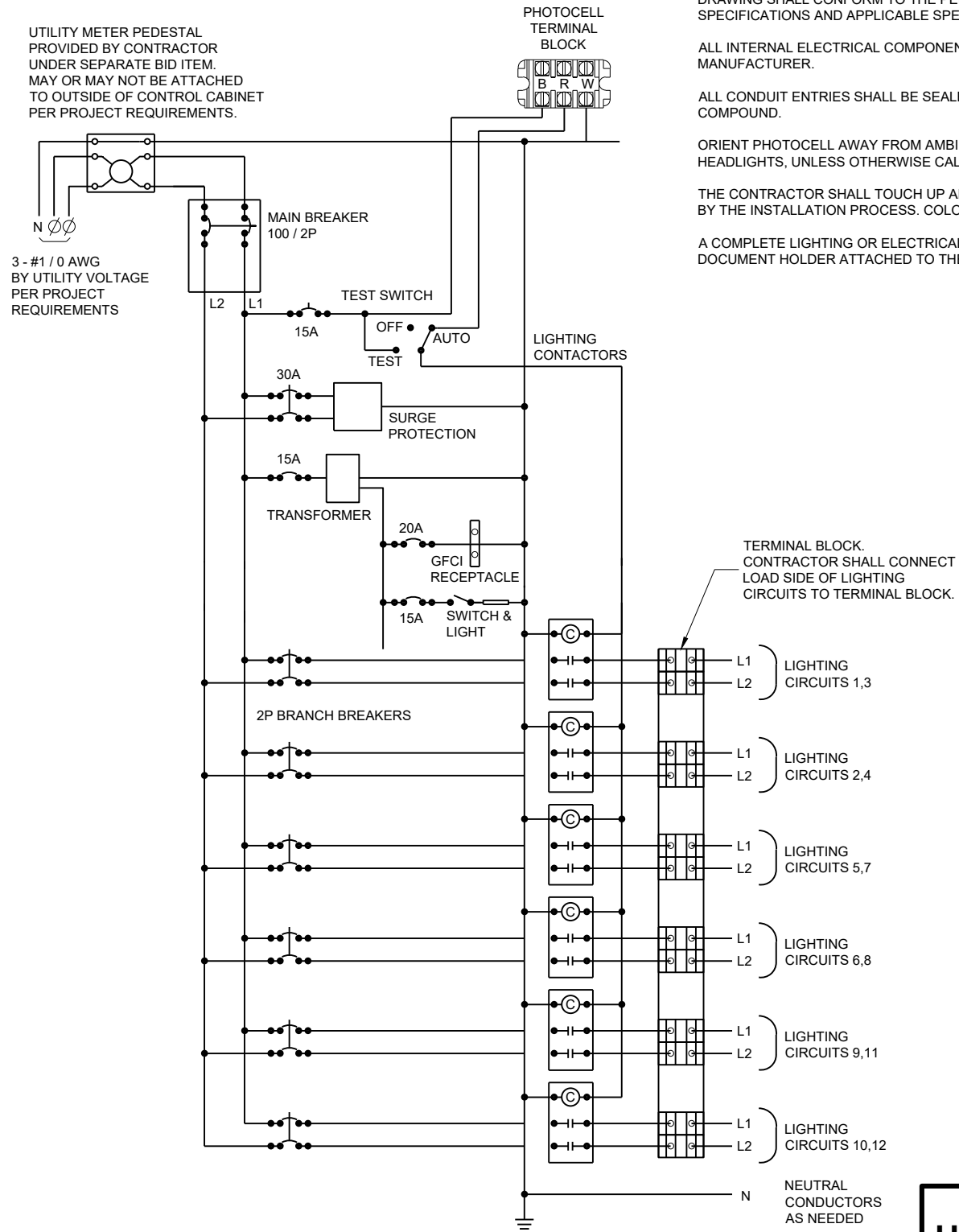


LIGHTING CONTROL CABINET

SIDE VIEW



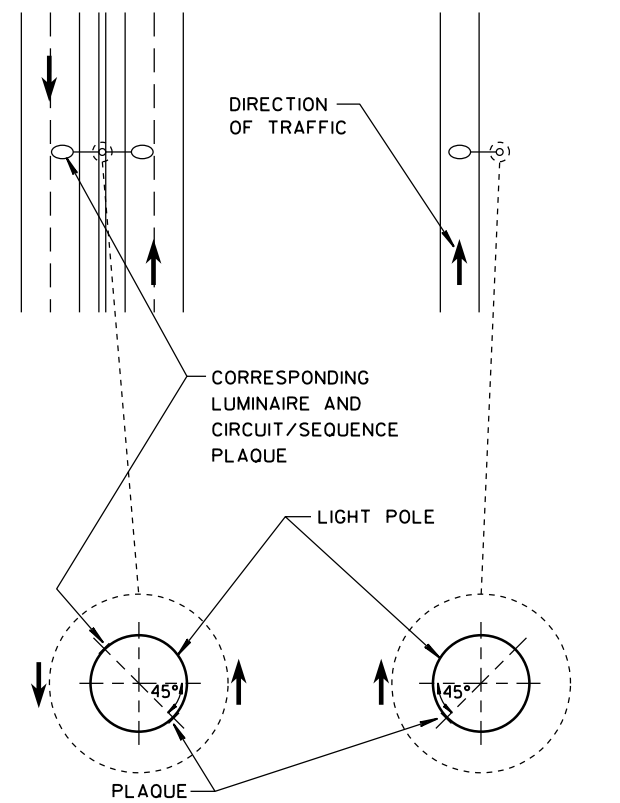
CONTROL CABINET SCHEMATIC



GENERAL NOTES

- DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.
- ALL INTERNAL ELECTRICAL COMPONENTS WILL BE PRE - WIRED BY THE CABINET MANUFACTURER.
- ALL CONDUIT ENTRIES SHALL BE SEALED WITH AN APPROPRIATE DUCT SEALING COMPOUND.
- ORIENT PHOTOCELL AWAY FROM AMBIENT LIGHT SOURCES AND ONCOMING TRAFFIC HEADLIGHTS, UNLESS OTHERWISE CALLED FOR IN THE SPECIAL PROVISION.
- THE CONTRACTOR SHALL TOUCH UP ANY DAMAGE TO THE ANODIZED FINISH CAUSED BY THE INSTALLATION PROCESS. COLOR MATCH PAINT SHALL BE USED.
- A COMPLETE LIGHTING OR ELECTRICAL PLAN SHALL BE SECURELY PLACED IN THE DOCUMENT HOLDER ATTACHED TO THE DOOR.

L30	
LIGHTING CONTROL CABINET	
240 / 480 VOLT	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED November 2018 DATE	/S/ Ahmet Demirbilek STATE ELECTRICAL ENGI 133
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MEDIAN POLE SINGLE ARM POLE

**LOCATION OF LIGHT POLE
CIRCUIT/SEQUENCE PLAQUE**

GENERAL NOTES

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

PLAQUES SHALL BE INCIDENTAL TO ALL NEW INSTALLATIONS.

WHERE SHOWN IN THE PLANS, REPLACEMENT PLAQUES WILL BE MEASURED AND PAID SEPARATELY.

FASTEN TOP, CENTER AND BOTTOM OF PLAQUE TO POLE OR OTHER LOCATION AS FOLLOWS:

- GALVANIZED STEEL SHAFT - STAINLESS STEEL POP RIVETS
- A588 STEEL SHAFT - SHIM FOR DRAINAGE WITH STAINLESS WASHERS;
FASTEN WITH STAINLESS SELF-TAPPING SCREWS
- ALUMINUM SHAFTS - ALUMINUM POP RIVETS

MOUNTING HEIGHT SHALL BE APPROXIMATELY 5.0' ABOVE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL OBSTRUCT.

PLAQUE MATERIALS:

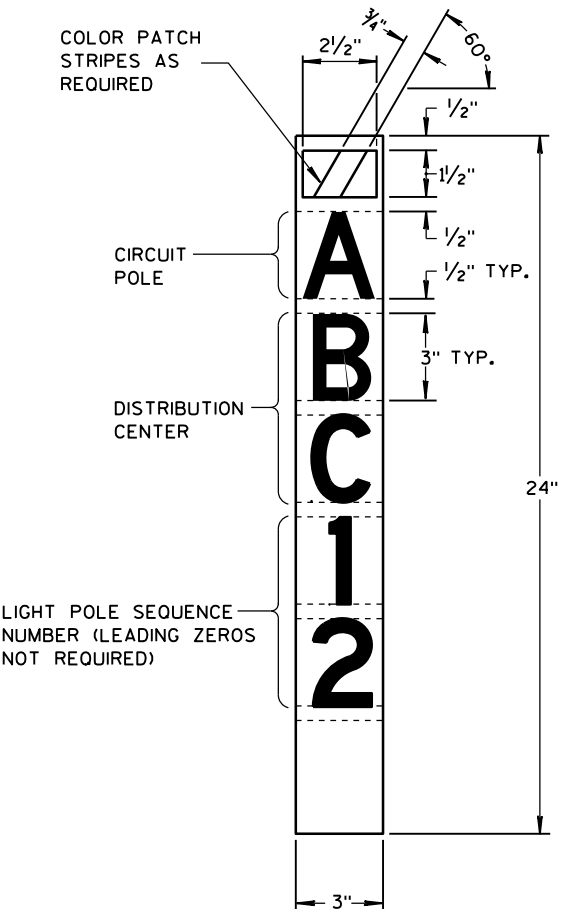
- BASE - SHEET ALUMINUM, 0.060" THICK.
- FACE - WHITE, SELF-ADHESIVE VINYL SHEETING, NON-RETRORFLECTIVE
- LINES - BLACK, 1/2" WIDE, SELF-ADHESIVE
- CHARACTERS - BLACK, SELF-ADHESIVE, SERIES "D", SIZE AS SHOWN
- COLOR PATCHES - VARIOUS COLORS, SELF-ADHESIVE VINYL SHEETING

WITH THE APPROVAL OF THE ENGINEER, THE BASE MATERIAL MAY BE OMITTED AND THE FACE ADHERED DIRECTLY TO THE SURFACE, IN CASES SUCH AS SMOOTH, CLEAN ALUMINUM POLES.

ALTERNATIVE COMPUTER-GENERATED SIGN LETTERING MAY BE ACCEPTED IF THE ENGINEER FINDS IT TO BE EQUIVALENT.

COLOR PATCH CODE FOR HPS AND LED LUMINAIRES

HPS	LED	COLOR PATCH CODE
1000 WATT		NO PATCH
400 WATT	CATEGORY D	ORANGE
310 WATT		BLUE
250 WATT	CATEGORY C	ORANGE WITH WHITE STRIPE
200 WATT		RED
150 WATT	CATEGORY B	GREEN
100 WATT	CATEGORY A	BROWN
70 WATT	CATEGORY UDL	BROWN WITH WHITE STRIPE

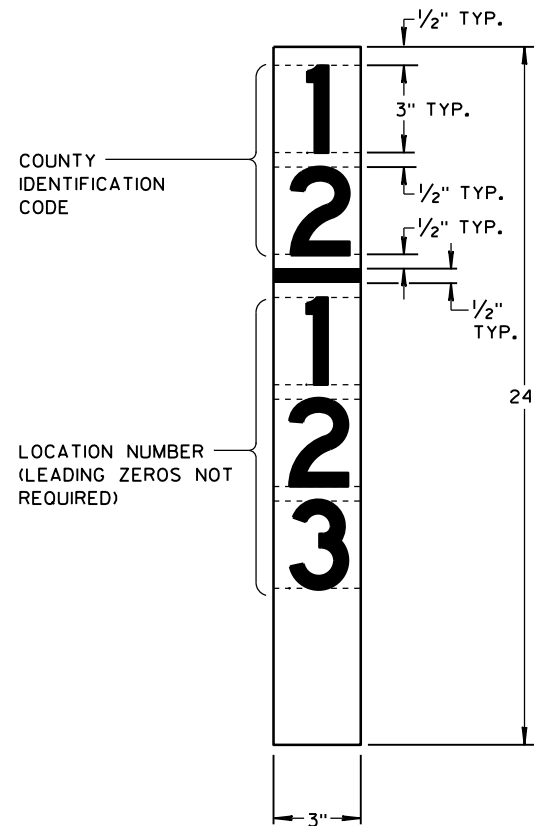


**LIGHT POLE CIRCUIT/SEQUENCE
PLAQUE**

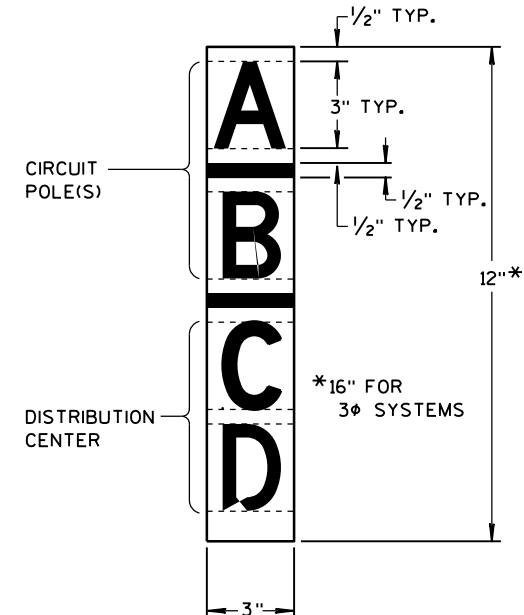
IDENTIFICATION PLAQUES
LIGHT POLES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

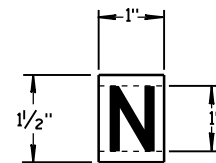
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DATE STATE ELECTRICAL 134
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**HIGH MAST LIGHT TOWER
STRUCTURE PLAQUE**

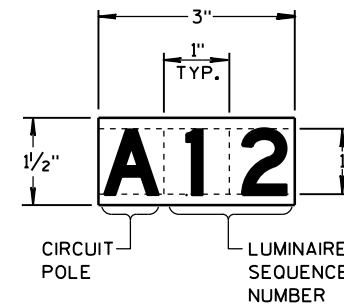


**UNDERDECK LIGHTING OR
HIGH MAST LIGHT
TOWER CIRCUIT PLAQUE**



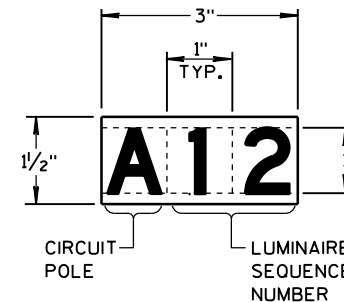
**HIGH MAST LIGHT TOWER
NORTH PLAQUE**

(MOUNT ON LOWERING RING - INDICATING NORTH
HEADING $2 \pm 10^\circ$ WHEN RING IS RAISED AND LATCHED)



**HIGH MAST LIGHT
TOWER LUMINAIRE
SEQUENCE PLAQUE**

(MOUNT ON LUMINAIRE RING)



**UNDER DECK LUMINAIRE
SEQUENCE DECAL**

(MOUNT ON LUMINAIRE)

GENERAL NOTES

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

PLAQUES SHALL BE INCIDENTAL TO ALL NEW INSTALLATIONS.

FASTEN TOP, CENTER AND BOTTOM OF PLAQUE TO POLE OR OTHER LOCATION AS FOLLOWS:

CONCRETE SURFACE - MASONRY ANCHORS

GALVANIZED STEEL SHAFT - STAINLESS STEEL POP RIVETS

A588 STEEL SHAFT - SHIM FOR DRAINAGE WITH STAINLESS WASHERS;
FASTEN WITH STAINLESS SELF-TAPPING SCREWS

PLAQUE MATERIALS:

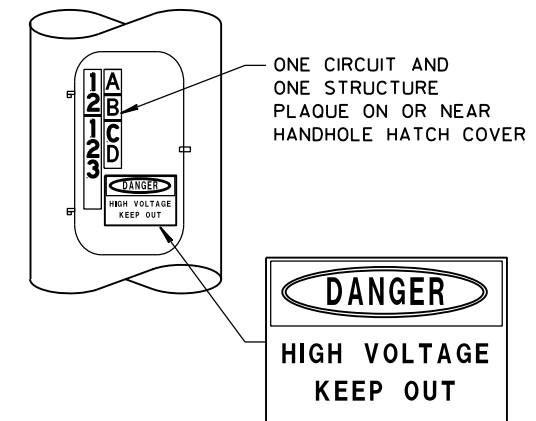
BASE - SHEET ALUMINUM, 0.060" THICK.

FACE - WHITE, SELF-ADHESIVE VINYL SHEETING, NON-RETROREFLECTIVE

LINES - BLACK, 1/2" WIDE, SELF-ADHESIVE

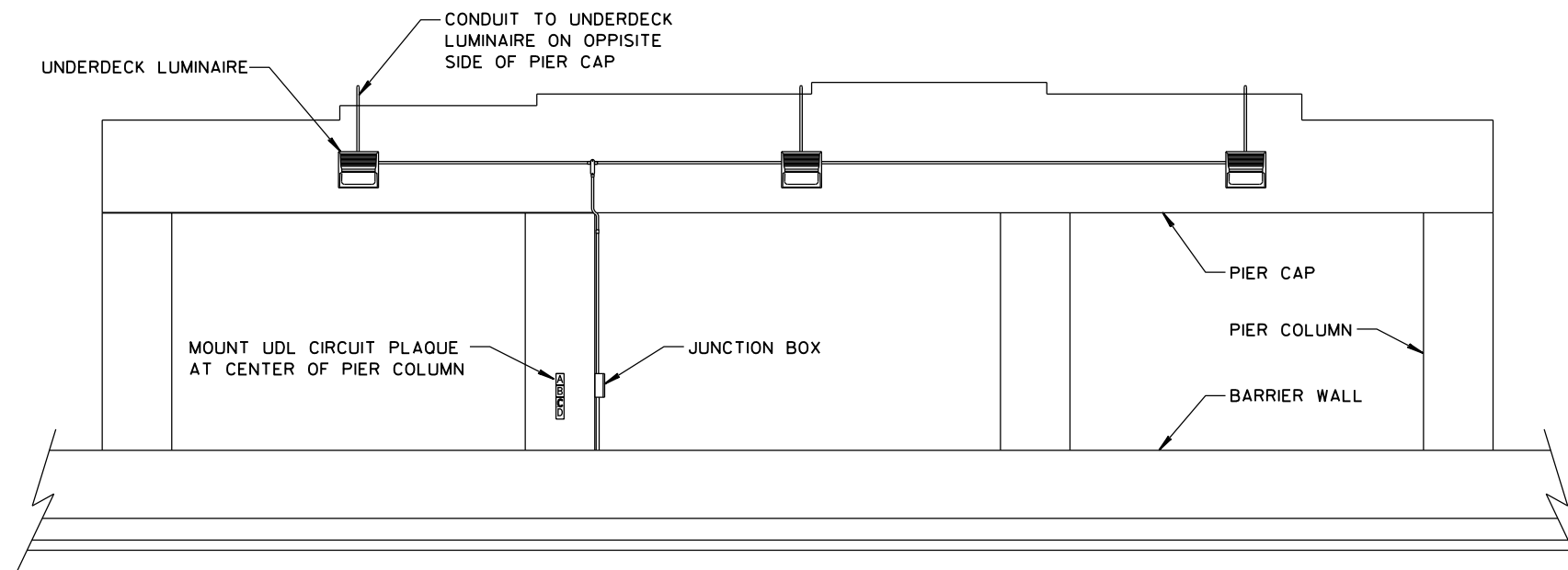
CHARACTERS - BLACK, SELF-ADHESIVE, SERIES "D", SIZE AS SHOWN

ALTERNATIVE COMPUTER-GENERATED SIGN LETTERING MAY BE ACCEPTED IF THE ENGINEER FINDS IT TO BE EQUIVALENT.



NOTE: NEMA PLAQUE SHOWN ABOVE
IS REQUIRED ONLY IN PARK AND
RIDE LOTS OR IN OTHER PED-
ESTRIAN ACCESSIBLE AREAS.

LOCATION OF HIGH MAST LIGHT TOWER STRUCTURE PLAQUE AND CIRCUIT PLAQUE

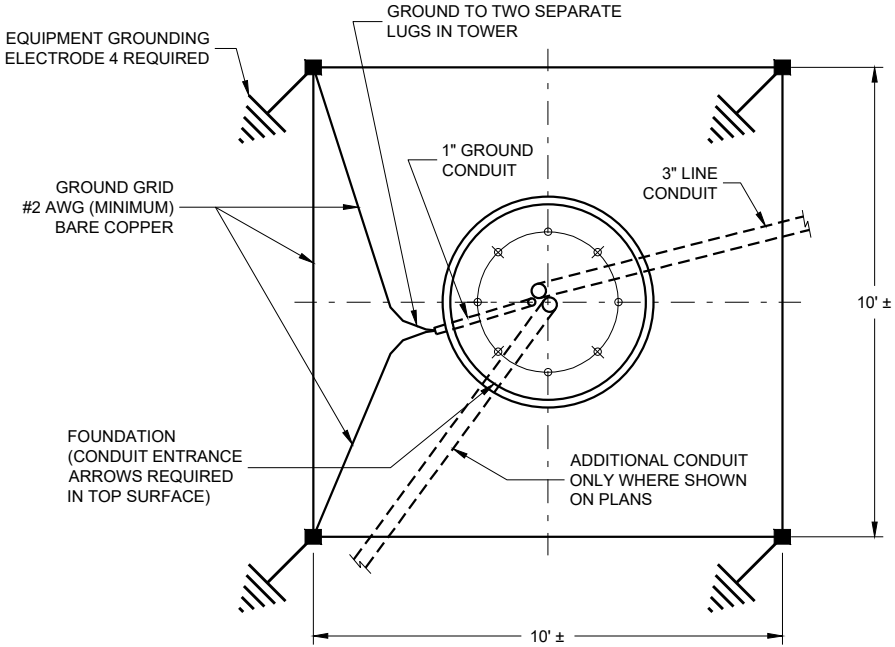


**LOCATION OF UNDERDECK LIGHTING
CIRCUIT PLAQUE**

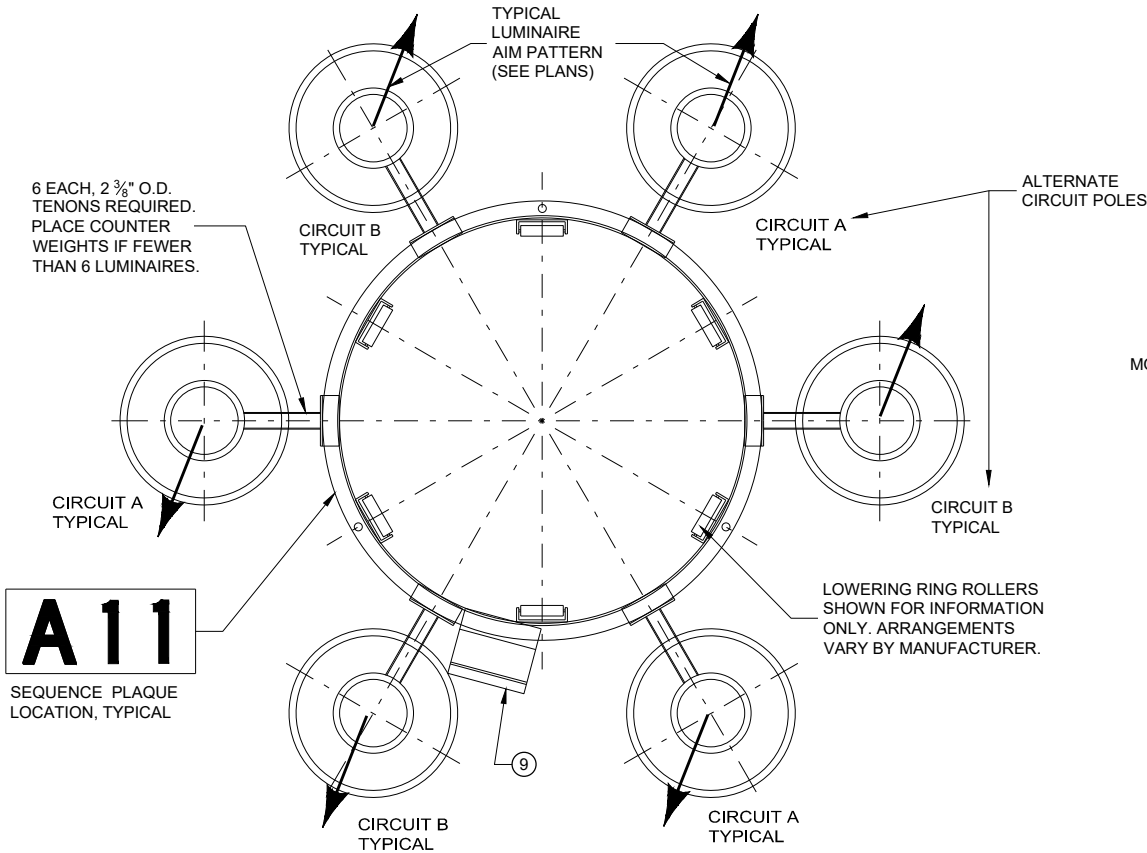
**IDENTIFICATION PLAQUES
UNDERDECK AND HIGH
MAST LIGHTING**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015 /S/ Ahmet Demirelek
DATE STATE ELECTRICAL 135
FHWA



EQUIPMENT GROUNDING GRID AND FOUNDATION ELECTRICAL DETAILS



LOWERING RING OPTICS PLAN
1 - ϕ CASE SHOWN; 3 - ϕ CASE SIMILAR

OVER CURRENT AND POWER CORD SCHEDULE

LINE VOLTAGE	HAND HOLE BREAKERS	INDIVIDUAL LUMINAIRE FUSES	POWER CORD	PRONGS ON LOAD BREAK DISCONNECT
1 - ϕ 120 / 240VAC:	3 WIRE	2 - 30A, 1P, 277VAC	20A	A, B, N, GND
1 - ϕ 240 / 480VAC:	3 WIRE	2 - 30A, 1P, 277VAC	10A	A, B, N, GND
3 - ϕ 480Y / 277VAC:	4 WIRE	3 - 30A, 1P, 277VAC	10A	X, Y, Z, N, GND
3 - ϕ 208Y / 120VAC:	4 WIRE	3 - 30A, 1P, 277VAC	20A	X, Y, Z, N, GND
1 - ϕ 480VAC:	2 WIRE	1 - 20A, 2P, 600VAC	5A	A, B, N, GND

GENERAL NOTES

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

IN CASES WHERE THE PLANS SHOW LINE IN/LINE OUT DISTRIBUTION SYSTEMS, FURNISH FEED-THROUGH LUGS IN THE CIRCUIT BREAKER ENCLOSURE.

THE PLANS WILL SHOW WHICH CIRCUIT LEG(S) ARE CONNECTED TO EACH INSTALLATION.

FIELD RECODING OF UNGROUNDED CONDUCTORS IN TYPE "SO" CABLE MAY BE REQUIRED TO CONFORM TO SYSTEM COLOR CODING AS SHOWN IN THE PLANS.

USE TIME DELAY FUSE PER LUMINAIRE MANUFACTURER RECOMMENDATION.

CIRCUIT BREAKERS SHALL BE MINIMUM 14 kAIC AT THE VOLTAGE SHOWN.

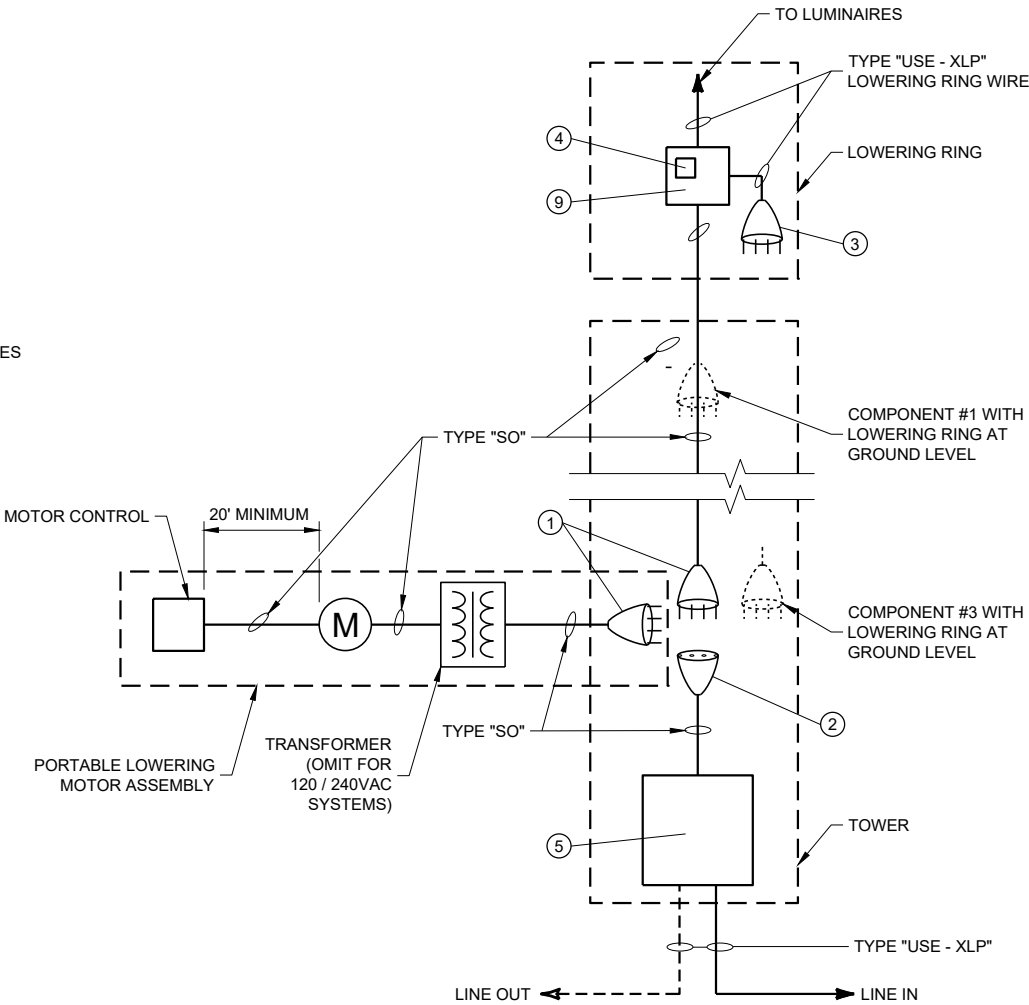
LOADBREAK DISCONNECTS SHALL BE MELTRIC TYPE "DR", 30 AMP, 600 VOLT. DO NOT SUBSTITUTE. FURNISH "FDP" FINGER/PALM DRAW PLATES (APPLIES TO THE PLUG AND RECEPTACLE ONLY, NOT TO THE APPLIANCE INLET). FURNISH "LP" MOISTURE PROTECTION (APPLIES TO THE PLUG ONLY, NOT TO THE RECEPTACLE OR THE APPLIANCE INLET).

SURGE ARRESTORS SHALL BE 650 VAC, 2P OR 3P AS REQUIRED.

CIRCUIT BREAKER ENCLOSURES SHALL BE NEMA 1, 100 AMP, 600 VOLT, 2P OR 3P AS REQUIRED, SURFACE MOUNT. IN ALL SYSTEMS, FURNISH A MINIMUM 4 - TERMINAL GROUND BUS. IN ISOLATED NEUTRAL SYSTEMS, ADDITIONALLY FURNISH A MINIMUM 1-TERMINAL NEUTRAL BUS. BUSES SHALL BE RATED FOR NO. 10 AWG THROUGH NO. 2 AWG CU.

LEGEND

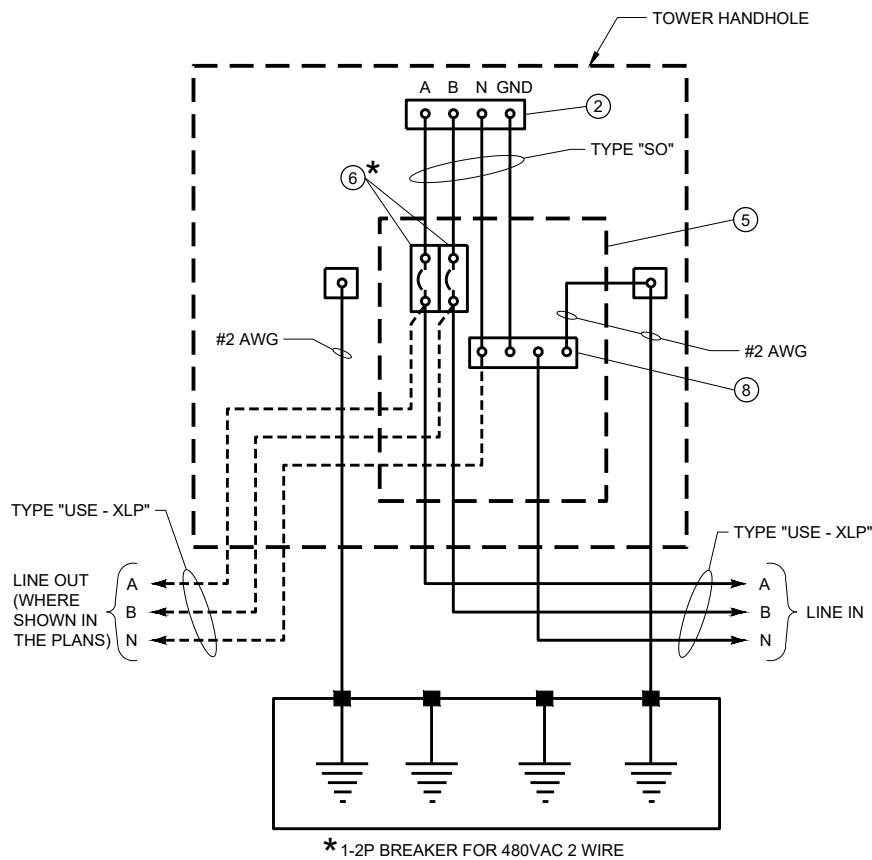
- P POLE (ELECTRICAL CIRCUIT)
- ϕ PHASE (ELECTRICAL CURRENT)
- EQUIPMENT GROUNDING ELECTRODE
- EXOTHERMIC WELD
- ① LOADBREAK DISCONNECT - MALE PLUG
- ② LOADBREAK DISCONNECT - FEMALE RECEPTACLE
- ③ LOADBREAK DISCONNECT - MALE APPLIANCE INLET
- ④ SURGE ARRESTOR - 2P OR 3P AS REQUIRED
- ⑤ CIRCUIT BREAKER ENCLOSURE
- ⑥ CIRCUIT BREAKER
- ⑦ CIRCUIT BREAKER ENCLOSURE NEUTRAL BUS
- ⑧ CIRCUIT BREAKER ENCLOSURE EQUIPMENT GROUNDING BUS
- ⑨ LOWERING RING JUNCTION BOX (WEEP HOLE REQUIRED)
- ⑩ TERMINAL STRIP



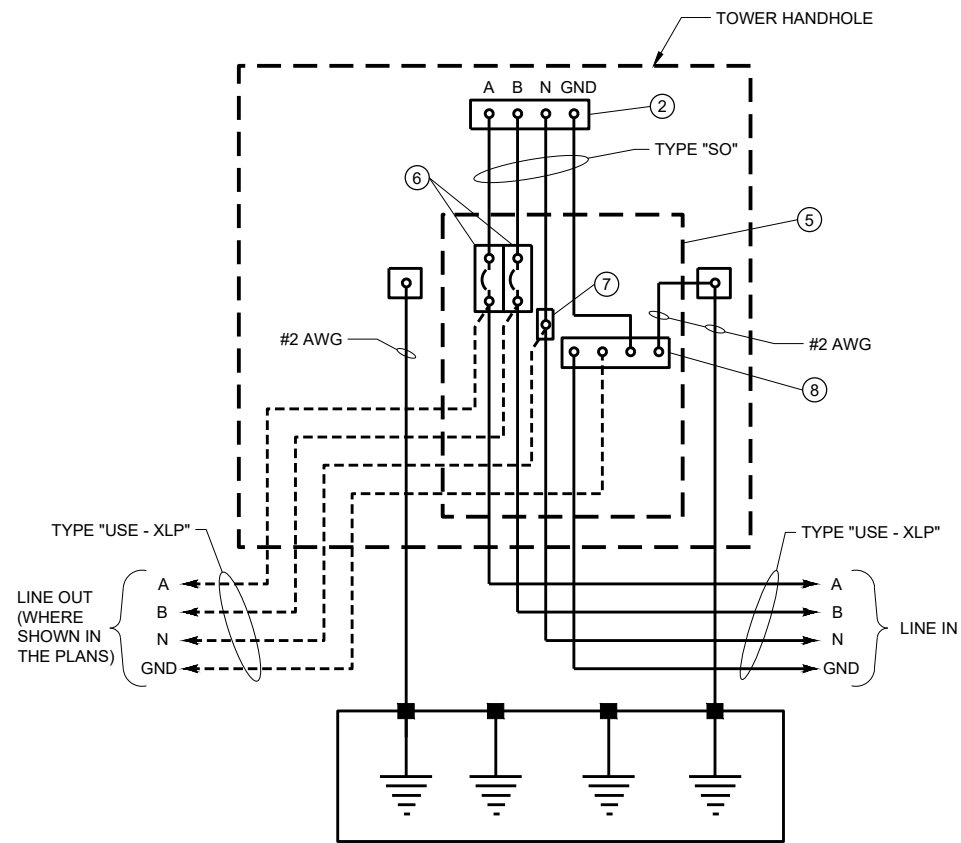
ONE LINE DIAGRAM
ANY LINE VOLTAGE PER OVER CURRENT AND POWER CORD SCHEDULE

ELECTRICAL DETAILS
HIGH MAST LIGHTING

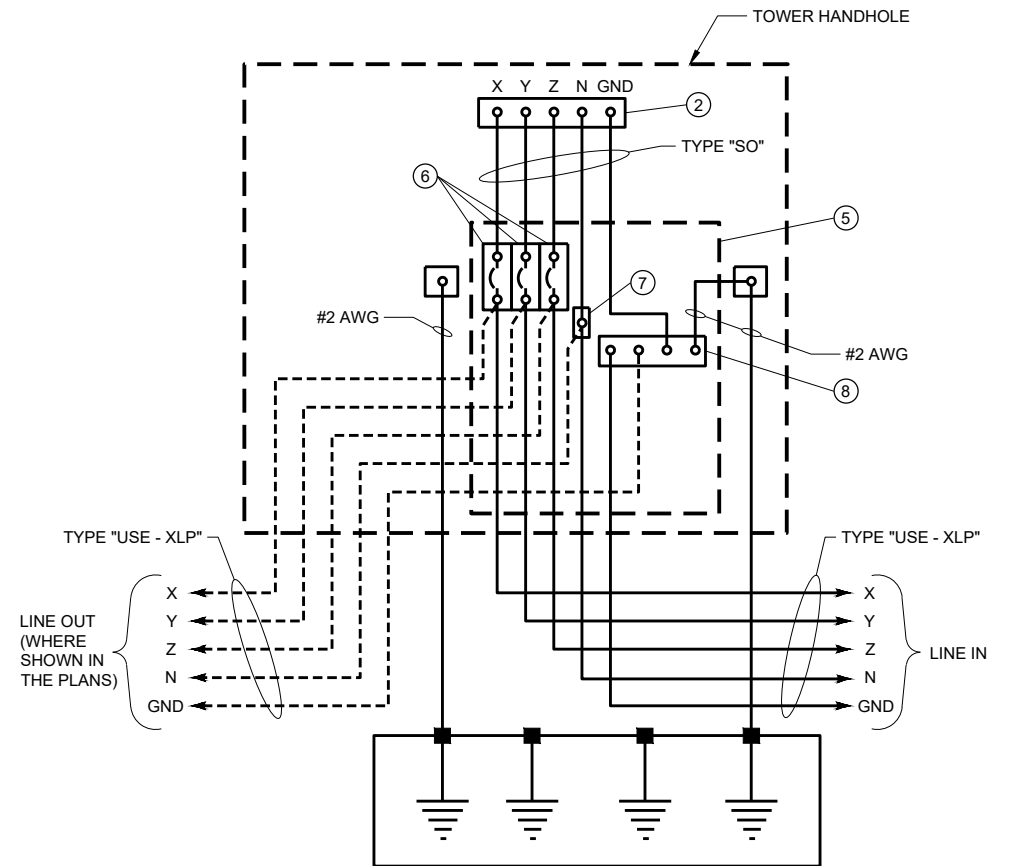
STATE OF WISCONSIN
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TYPICAL WIRING DIAGRAM-HANDHOLE
GROUNDED NEUTRAL SYSTEM
1 - ϕ 240 / 480VAC 3 WIRE OR 480VAC 2 WIRE



TYPICAL WIRING DIAGRAM-HANDHOLE
ISOLATED NEUTRAL SYSTEM
1 - ϕ 120 / 240VAC OR 240 / 480VAC 3 WIRE

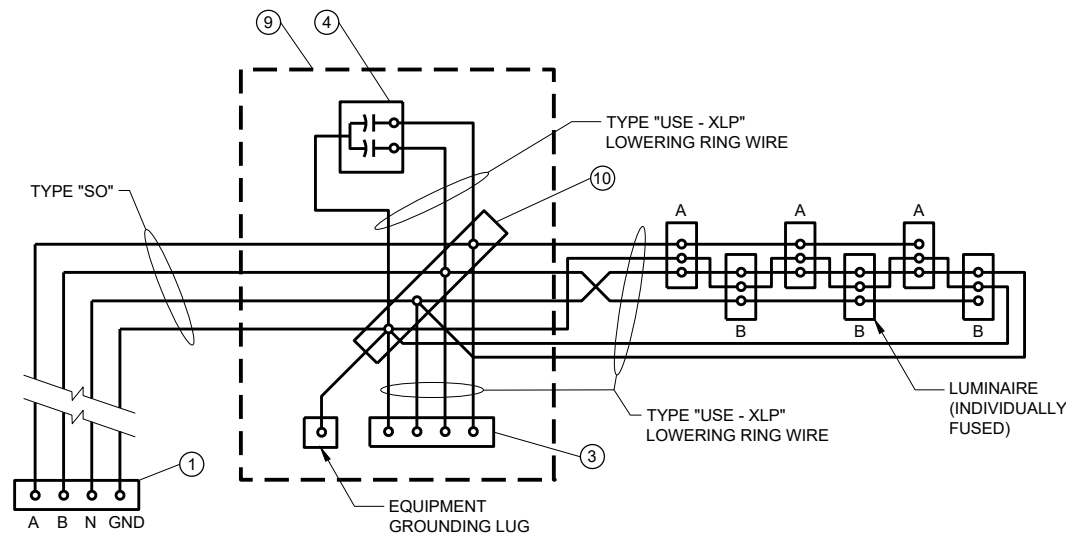


TYPICAL WIRING DIAGRAM-HANDHOLE
ISOLATED NEUTRAL SYSTEM
3 - ϕ 480 / 277VAC 4 WIRE OR 3 - ϕ 208Y / 120VAC 4 WIRE

LEGEND

- | | |
|----------------|--------------------------------|
| A, B, X, Y, Z, | UNGROUNDING CIRCUIT CONDUCTORS |
| N | GROUNDED CIRCUIT CONDUCTORS |
| GND | EQUIPMENT GROUNDING CONDUCTOR |
| P | POLE (ELECTRICAL CIRCUIT) |
| ϕ | PHASE (ELECTRICAL CURRENT) |
| AIC | AMPERE INTERRUPTING CAPACITY |
| | HANDHOLE GROUND LUG |
| | CIRCUIT BREAKER 1P |
| | SURGE ARRESTOR |
| | FUSED LUMINAIRE |
| | EQUIPMENT GROUNDING ELECTRODE |
| | TERMINAL |
| | SPLICE |
| | CONDUCTOR |
| | EXOTHERMIC WELD |

- | | |
|---|---|
| ① | LOADBREAK DISCONNECT - MALE PLUG |
| ② | LOADBREAK DISCONNECT - FEMALE RECEPTACLE |
| ③ | LOADBREAK DISCONNECT - MALE APPLIANCE INLET |
| ④ | SURGE ARRESTOR - 2P OR 3P AS REQUIRED |
| ⑤ | CIRCUIT BREAKER ENCLOSURE |
| ⑥ | CIRCUIT BREAKER |
| ⑦ | CIRCUIT BREAKER ENCLOSURE NEUTRAL BUS |
| ⑧ | CIRCUIT BREAKER ENCLOSURE EQUIPMENT GROUNDING BUS |
| ⑨ | LOWERING RING JUNCTION BOX (WEEP HOLE REQUIRED) |
| ⑩ | TERMINAL STRIP |

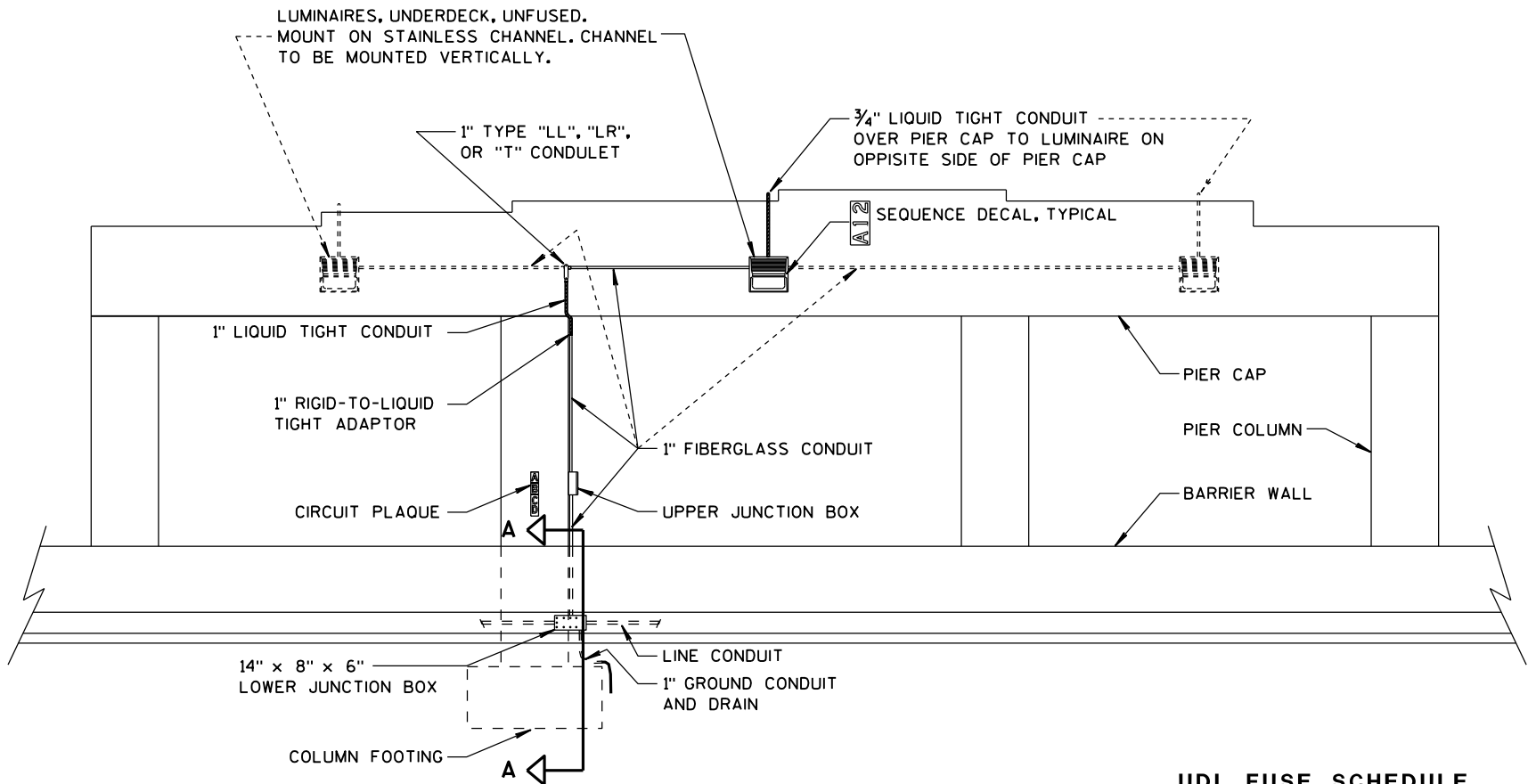


LOWERING RING JUNCTION BOX
WIRING DIAGRAM
TYPICAL 1 - ϕ CASE SHOWN; 3 - ϕ CASE SIMILAR

ELECTRICAL DETAILS
HIGH MAST LIGHTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

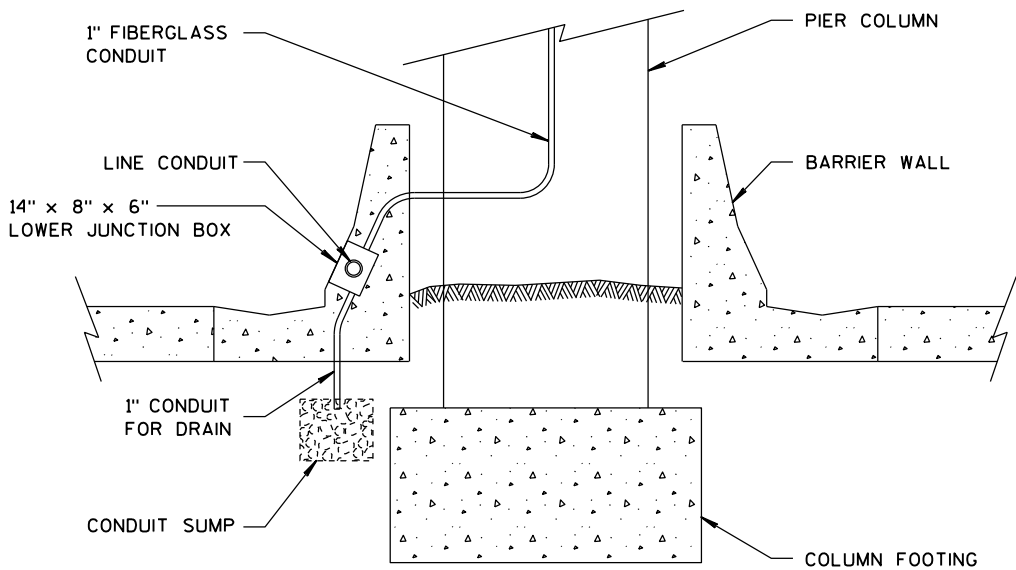
APPROVED
November 2018 /S/ Ahmet Demirelek
DATE STATE ELECTRICAL ENGI 137
FHWA



TYPICAL UNDERDECK
LIGHTING INSTALLATION

UDL FUSE SCHEDULE

LINE VOLTAGE Ø-GROUND	TOP JUNCTION BOX FUSES
120VAC	5 A
208VAC	5 A
240VAC	5 A
480VAC	3 A



SECTION "A-A"

GENERAL NOTES

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

USE THIS DETAIL IN CONJUNCTION WITH THE DETAIL FOR ELECTRICAL HANDHOLE WIRING, SUBSTITUTING THE LOWER JUNCTION BOX FOR THE HANDHOLE SHOWN IN THAT DETAIL.

THE PLANS WILL SHOW WHICH CIRCUIT LEGS(S) ARE CONNECTED TO EACH INSTALLATION AND THE REQUIRED NUMBER OF LUMINAIRES.

THE UPPER JUNCTION BOX (FOR FUSE ASSEMBLIES) SHALL CONFORM TO THE APPLICABLE PROVISIONS OF SECTION 653.2.2 OF THE STANDARD SPECIFICATIONS; SHALL BE SUITABLE FOR SURFACE MOUNTING WITH EXTERNAL MOUNTING LUGS; AND SHALL HAVE A HINGED COVER, WING-NUT FASTENERS, AND PADLOCK HASP. ALL HARDWARE SHALL BE STAINLESS STEEL. FURNISH O-Z/GEDNEY YW-120603, SPRING CITY HC-12-06-04, CROUSE-HINDS WTB-120604, OR APPROVED EQUAL.

MEDIAN CONFIGURATIONS VARY; NOT ALL CASES CAN BE SHOWN IN THIS DETAIL.

WIRING FOR THE FIRST LUMINAIRE PAIR IS SHOWN IN SOLID LINES. WIRING FOR ADDITIONAL LUMINAIRE PAIRS, WHERE REQUIRED, IS SHOWN IN DOTTED LINES.

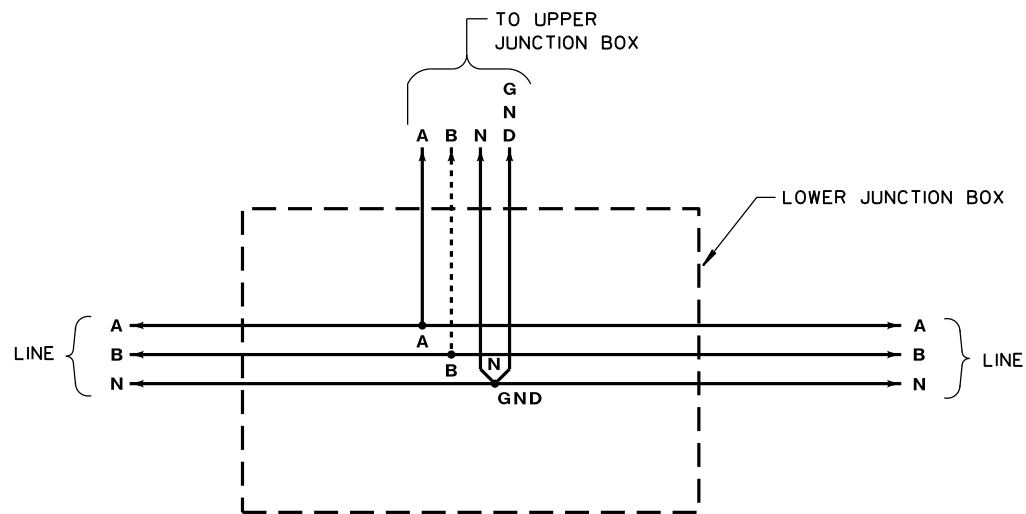
LEGEND

A.B.X.Y.Z	UNGROUND CIRCUT CONDUCTORS
N	GROUND CIRCUT CONDUCTORS
GND	EQUIPMENT GROUNDING CONDUCTOR
P	POLE (ELECTRICAL CIRCUIT)
Ø	PHASE (ELECTRICAL CURRENT)
	HANDHOLE GROUND LUG
	UNFUSED LUMINAIRE
	SINGLE POLE (1P) FUSE ASSEMBLY
•	TERMINAL
•	SPLICE
—	CONDUCTOR

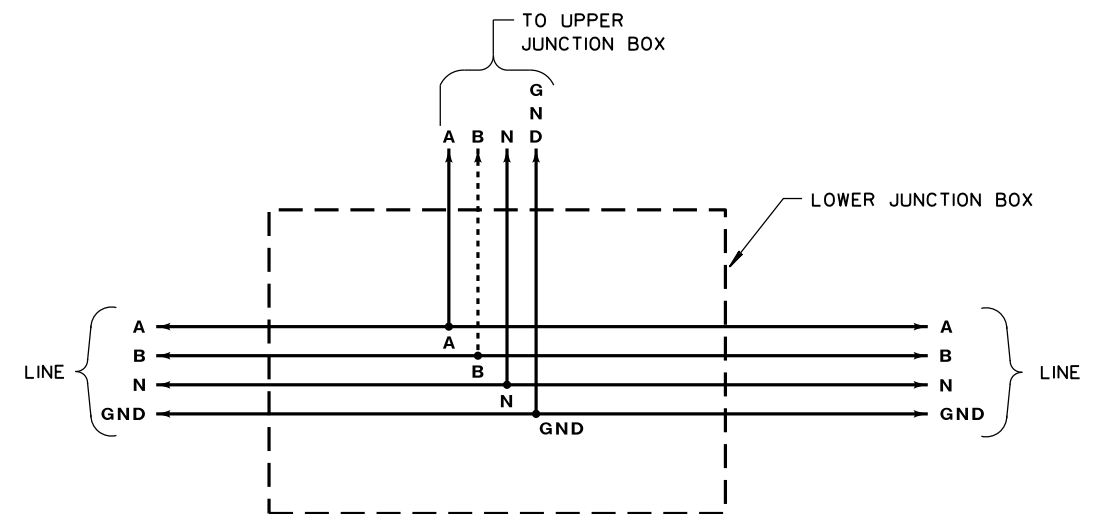
ELECTRICAL DETAILS
UNDERDECK LIGHTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

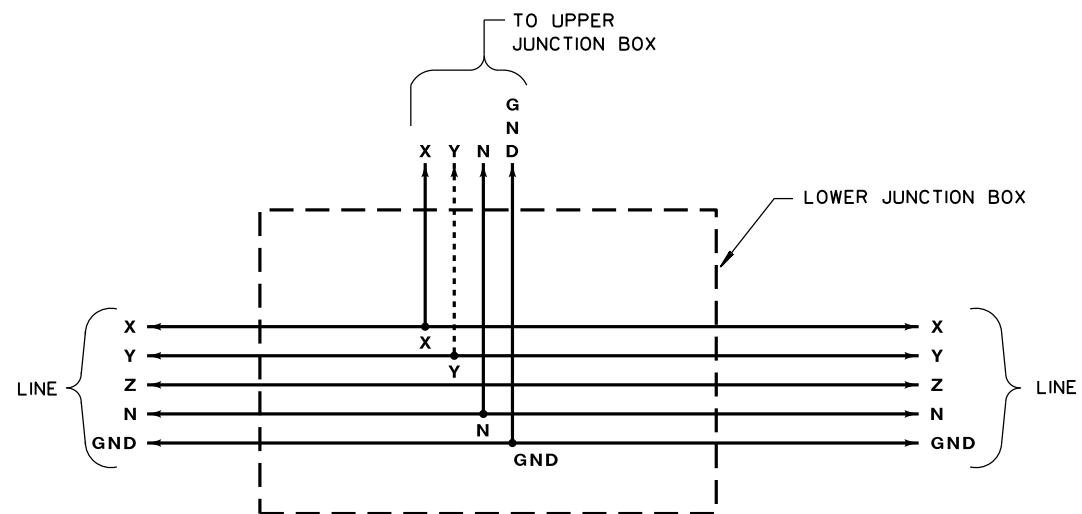
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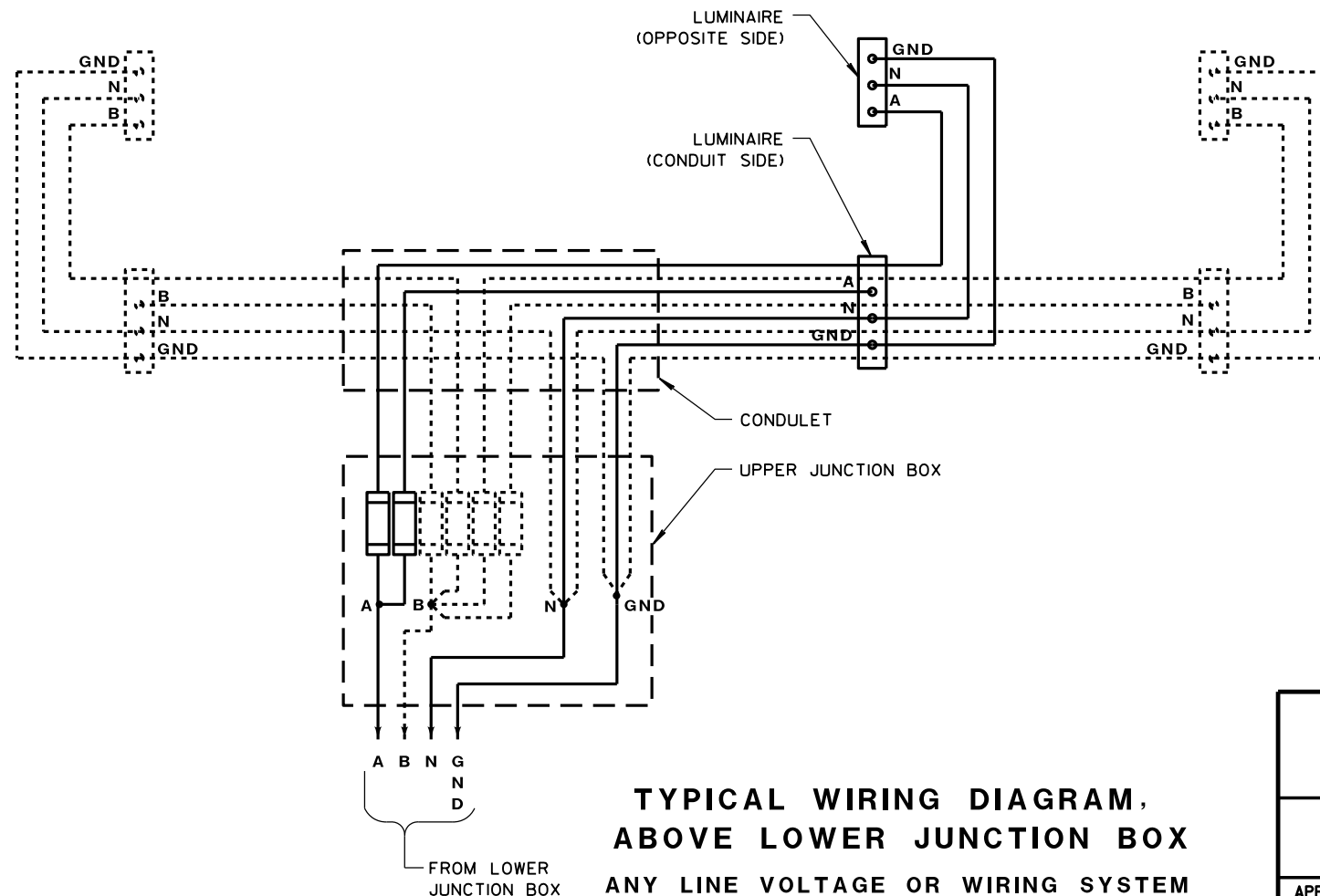
TYPICAL WIRING DIAGRAM, LOWER JUNCTION BOX
GROUNDING NEUTRAL SYSTEM
 1- ϕ 240/480VAC OR 3 WIRE OR 480VAC 2 WIRE



TYPICAL WIRING DIAGRAM, LOWER JUNCTION BOX
ISOLATED NEUTRAL SYSTEM
 1- ϕ 120/240VAC OR 240/480VAC 3 WIRE



TYPICAL WIRING DIAGRAM, LOWER JUNCTION BOX
ISOLATED NEUTRAL SYSTEM
 3- ϕ 208Y/120VAC OR 480Y/277VAC 4 WIRE



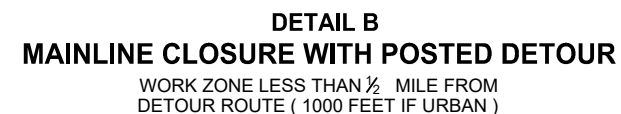
TYPICAL WIRING DIAGRAM,
ABOVE LOWER JUNCTION BOX
 ANY LINE VOLTAGE OR WIRING SYSTEM
 (NO. 14 AWG TAPS AND BRANCHES)

ELECTRICAL DETAILS
UNDERDECK LIGHTING

STATE OF WISCONSIN
 DEPARTMENT OF TRANSPORTATION

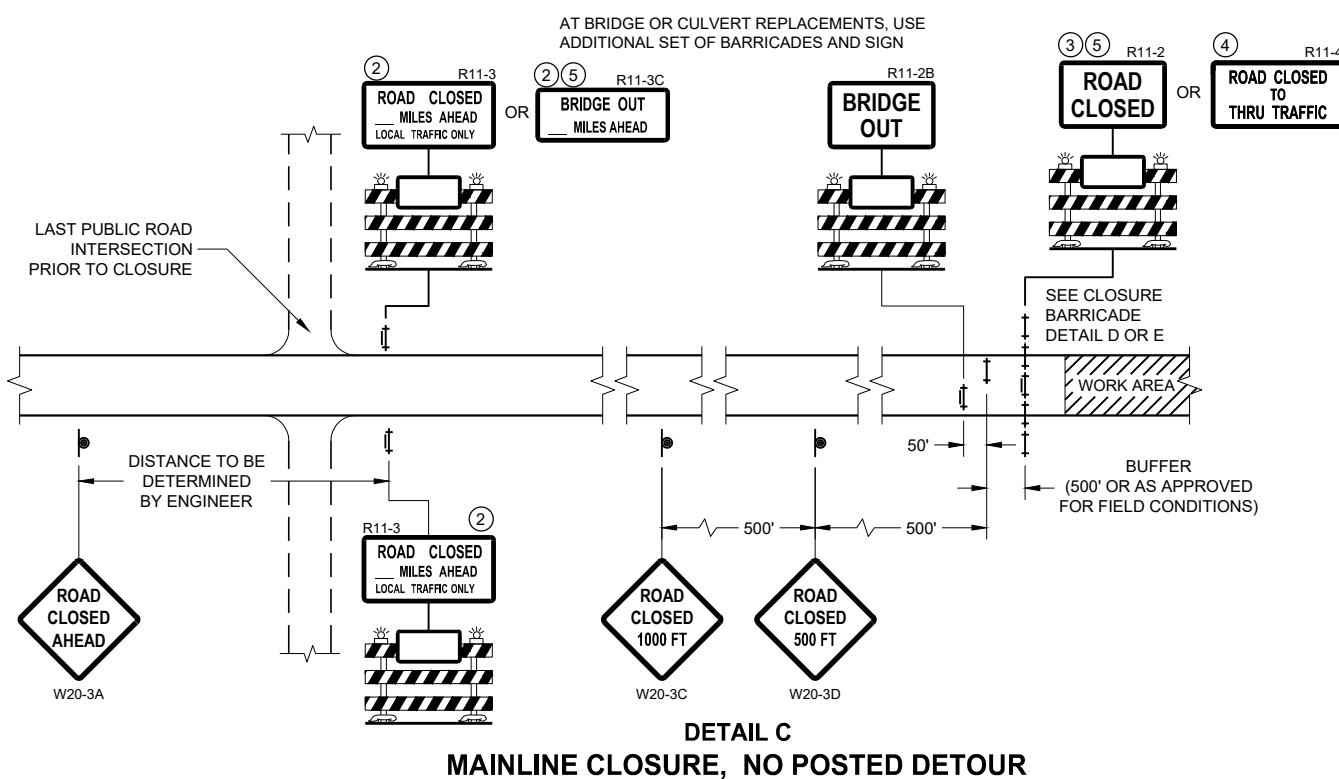
APPROVED
 11/26/2013
 DATE
 FHWA

/S/ Ahmet Demirbilek
 STATE ELECTRICAL 139



SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-SHEET "b"
FOR GENERAL NOTES
AND FOOTNOTES ① THROUGH ⑦



	SIGN ON PERMANENT SUPPORT
	TYPE III BARRICADE
	TYPE III BARRICADE WITH ATTACHED SIGN
	TYPE "A" WARNING LIGHT (FLASHING)
	WORK AREA
	FLAGS, 16" X 16" MIN. (ORANGE)

 M4 - 8
 M3 - X
 OR  OR 
M1 - 4 M1 - 6 M1 - 5A
 OR 
M05 - 1 M06 - 1

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER 140



SEE SDD 15C2 - SHEET "a" FOR LEGEND

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW - INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

"WO" AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

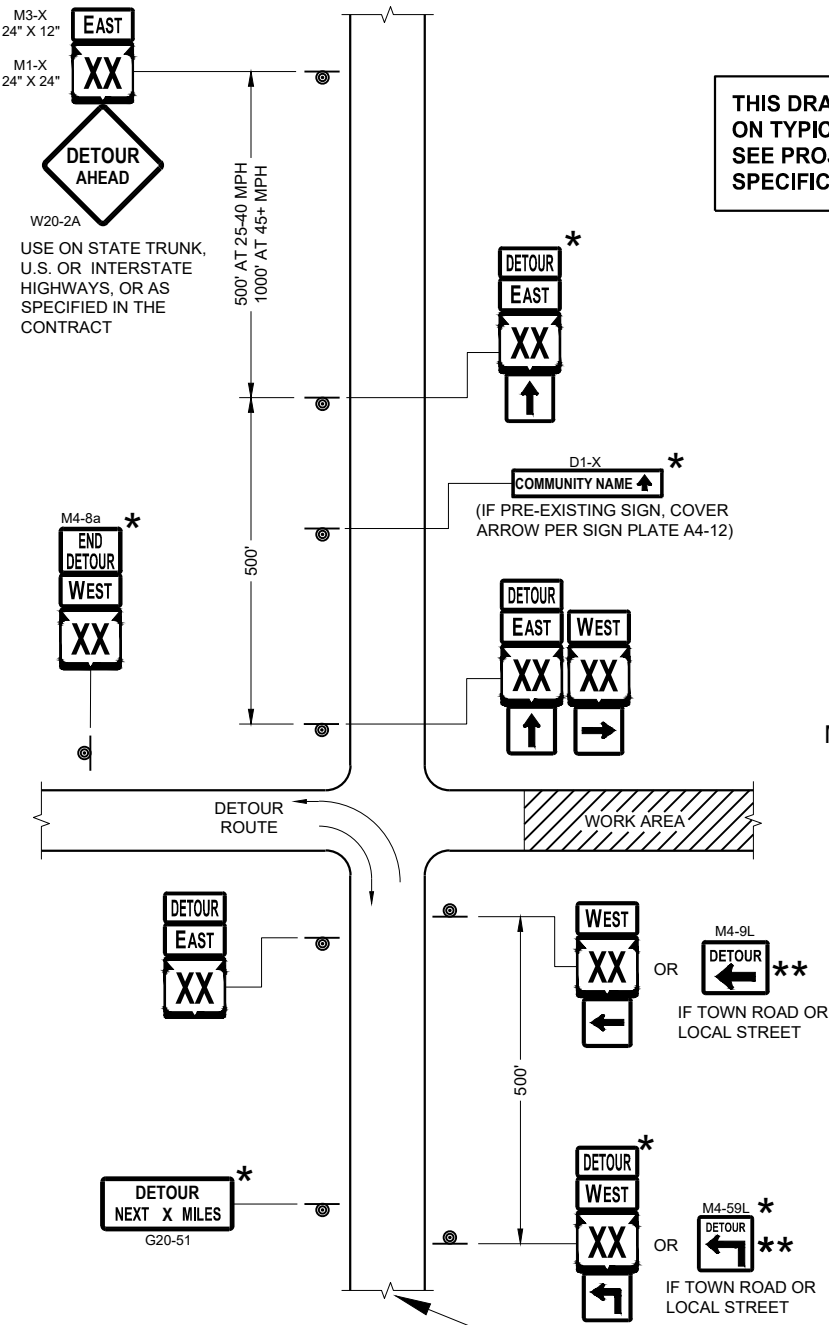
ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:

R11 - 2 SHALL BE 48" X 30"
R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60" X 30"
M4 - 9 SHALL BE 30" X 24"
M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
M4 - 8 SHALL BE 24" X 12" (36" X 15" IF NEEDED TO MATCH EXISTING SIGNS)
M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
R1 - 1 SHALL BE 36" X 36"

- ① TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING).
- ② THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
- ③ FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".
- ④ FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".
- ⑤ FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.
- ⑥ INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.
- ⑦ "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

STATE OF WISCONSIN
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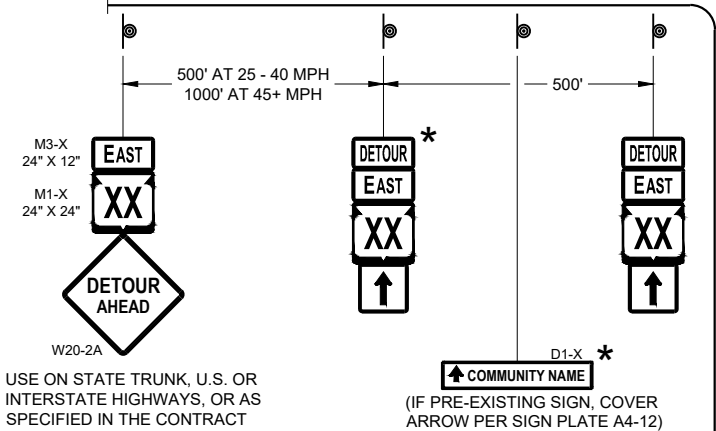
APPROVED
November 2018 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER 141



SEE SPECIFIC PROJECT DETOUR
SIGNING DETAIL SHEETS AND
DETAIL A OR B ON SDD SHEET 15C02 - SHEET "a"

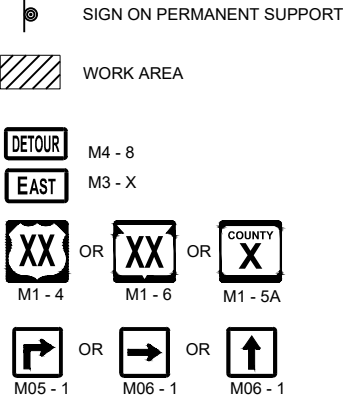
THIS DRAWING PROVIDES GENERAL GUIDANCE
ON TYPICAL DETOUR SIGN LAYOUT AND SPACING.
SEE PROJECT DETOUR SIGNING SHEETS FOR
SPECIFIC DETAILS FOR EACH PROJECT.

MATCH POINT



DETAIL F
DETOUR SIGNING

LEGEND



GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

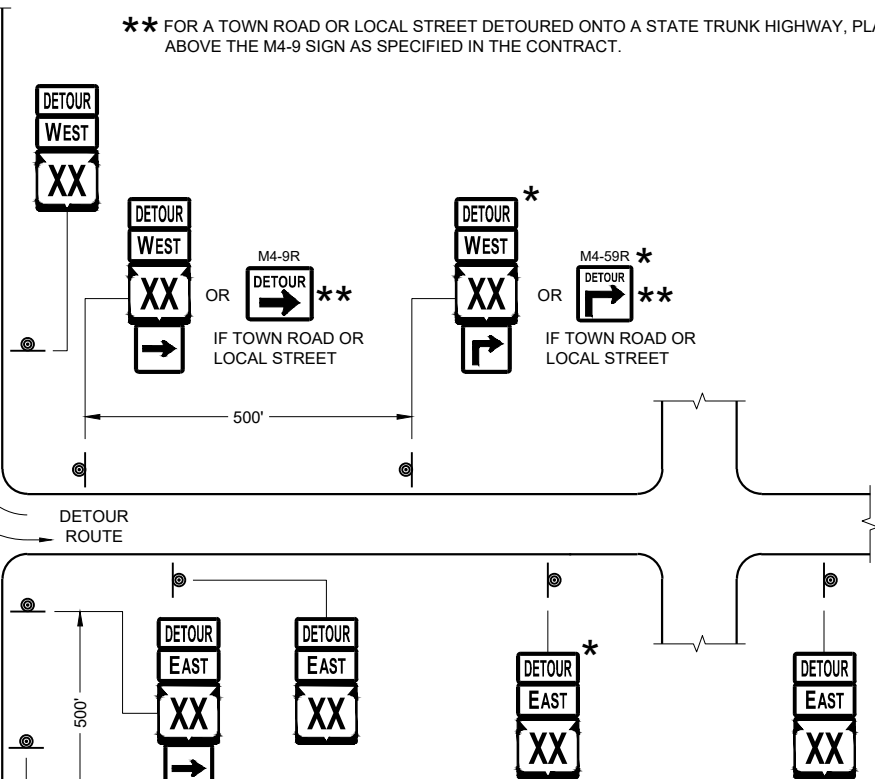
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

- M3-X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-8 SHALL BE 24" X 12" (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS)
- M1-4, M1-5A AND M1-6 SHALL BE 24" X 24" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- M05-1 AND M06-1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-9 AND M4-59 SHALL BE 30" X 24"
- M4-8a SHALL BE 24" X 18"
- G20-51 SHALL BE 60" X 24"
- W20-2 SHALL BE 48" X 48"
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

- * OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.
- ** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.

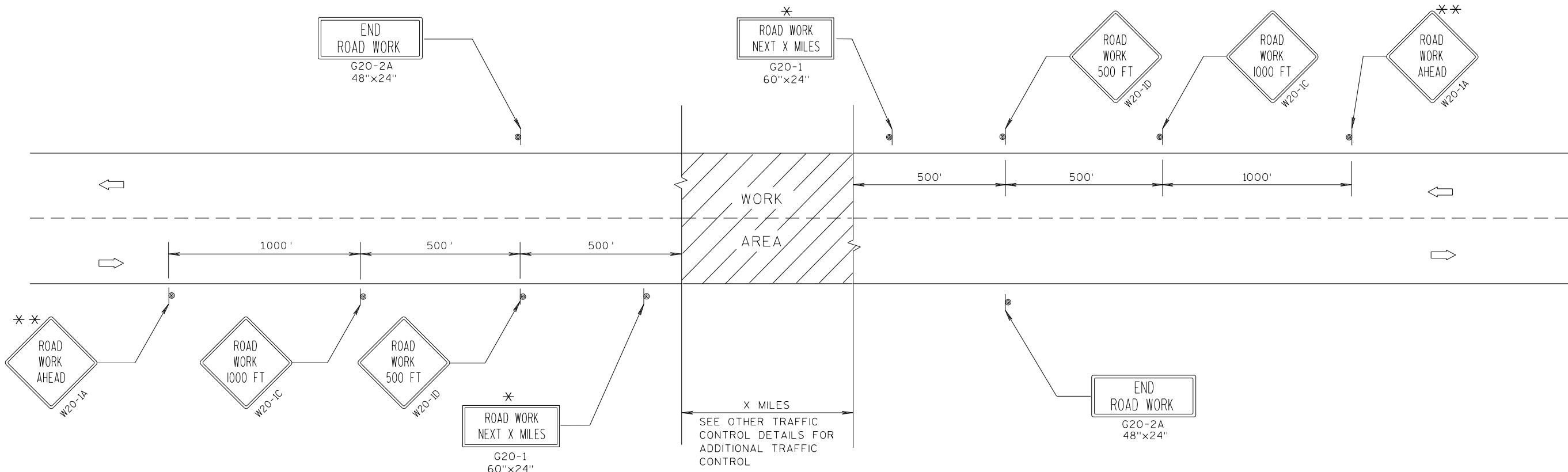


PLACE SIGNS BEYOND INTERSECTIONS
WITH STATE OR COUNTY TRUNK
HIGHWAYS OR AT 4 MILE MAXIMUM
SPACING (4 BLOCKS IF URBAN AREA)

DETOUR SIGNING
FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER 142
FHWA



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

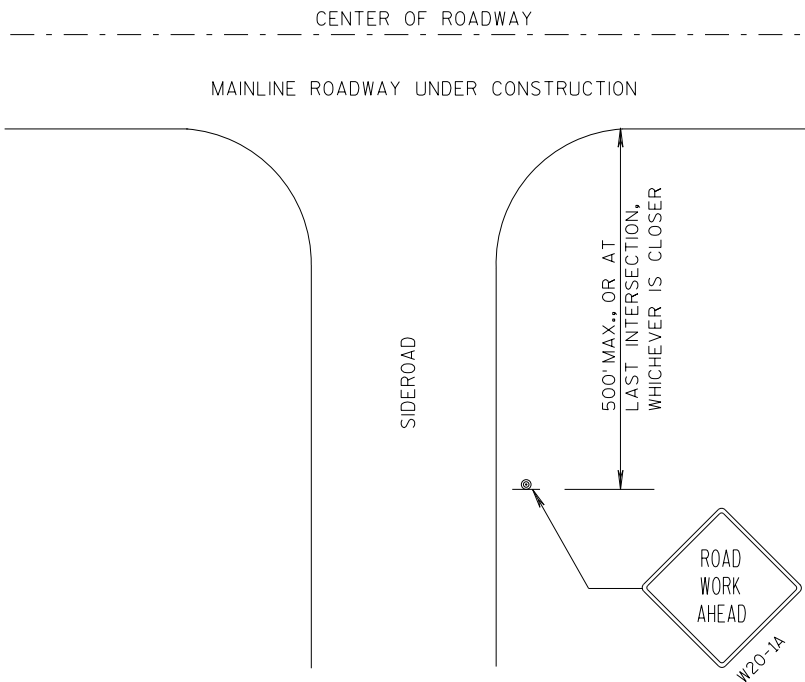
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

- * OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.
- * * PLACE ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



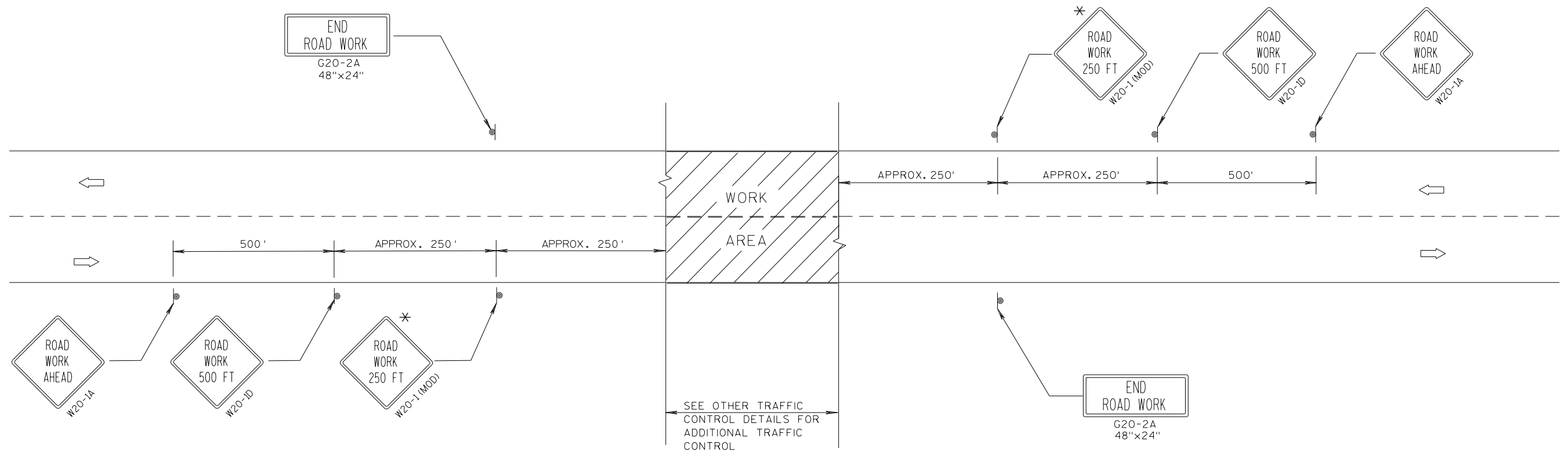
LEGEND

- ⊙ SIGN ON PERMANENT SUPPORT
- ➡ DIRECTION OF TRAFFIC
- ▨ WORK AREA

TRAFFIC CONTROL, ADVANCE
WARNING SIGNS 45 M.P.H.
OR GREATER TWO-WAY
UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018 /S/ Andrew Heidtke
DATE WORK ZONE ENGI 143
FHWA



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

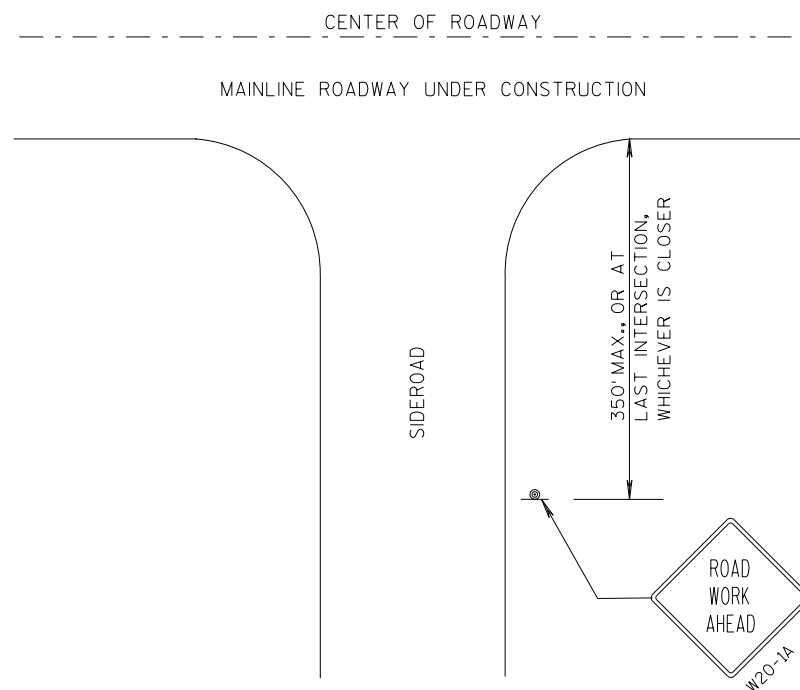
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FT" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



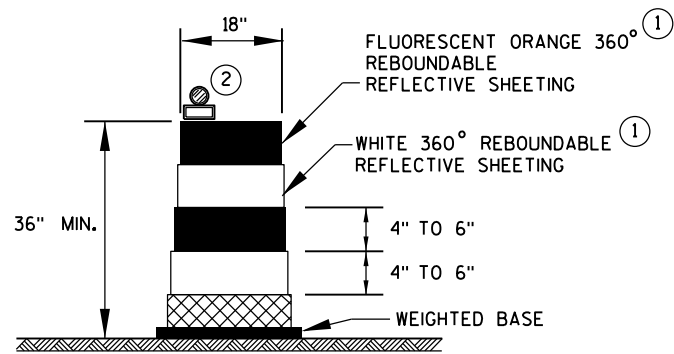
LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

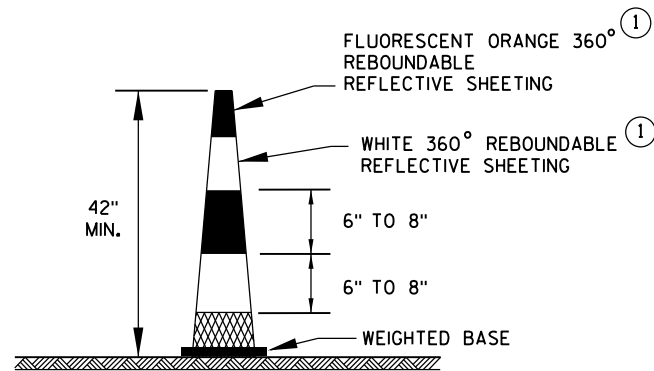
**TRAFFIC CONTROL. ADVANCE
WARNING SIGNS 40 M.P.H.
OR LESS TWO-WAY UNDIVIDED
ROAD OPEN TO TRAFFIC**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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DRUM

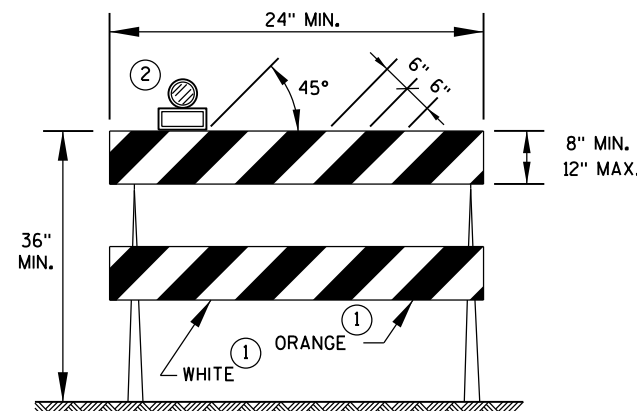


42" CONE

DO NOT USE IN TAPERS
1/2 SPACING OF DRUMS

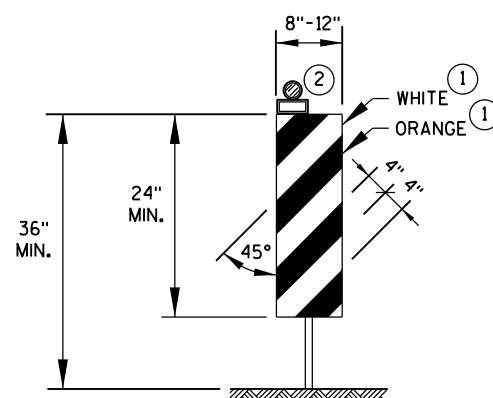
GENERAL NOTES

- ① REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- ② LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



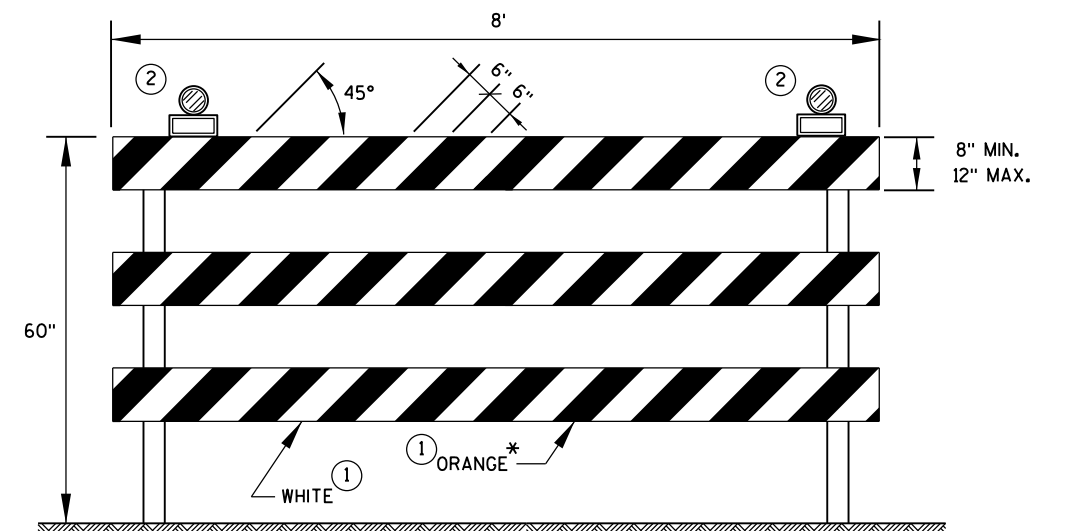
TYPE 2 BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED.
ALL STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE 3 BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION, USE RED SHEETING.

CHANNELIZING DEVICES
DRUMS, CONES, BARRICADES
AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2017
DATE

/S/ Andrew Heidtke
WORK ZONE ENG 145

FHWA

LEGEND

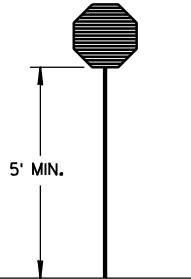
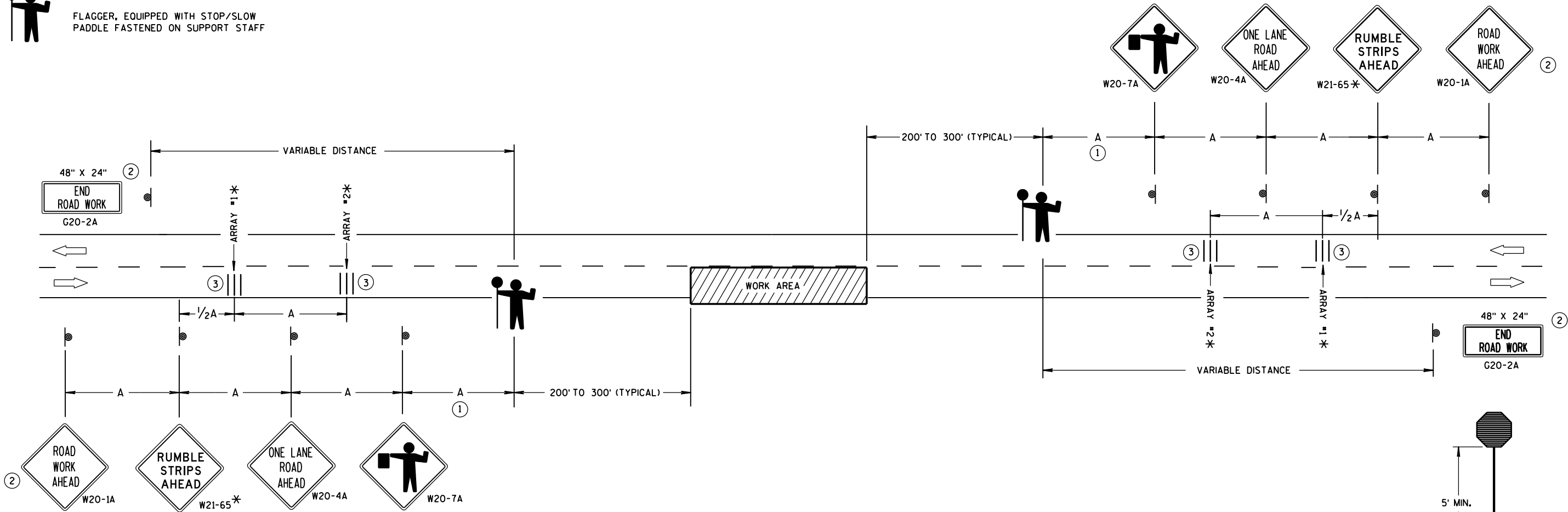
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING A
25-35 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING A.



STOP/SLOW PADDLE ON SUPPORT STAFF

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES (AND THE LOCATION OF ALL FLAGGERS) SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

"W0" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS. PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, REMOVE TEMPORARY RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

* UTILIZE TEMPORARY RUMBLE STRIPS WHEN FLAGGING OPERATION IS ANTICIPATED TO BE STATIONARY IN EXCESS OF TWO HOURS.

- ① FOR A MOVING WORK OPERATION, SIGNING AND TEMPORARY RUMBLE STRIPS (IF USED) SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3,500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.
- ② SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.
- ③ EACH TEMPORARY RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 /S/ Andrew Heldtke
DATE WORK ZONE ENG 146
FHWA

GENERAL NOTES

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS.

ALL SIGNS ARE 48" x 48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED OR AS APPROVED BY THE ENGINEER.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

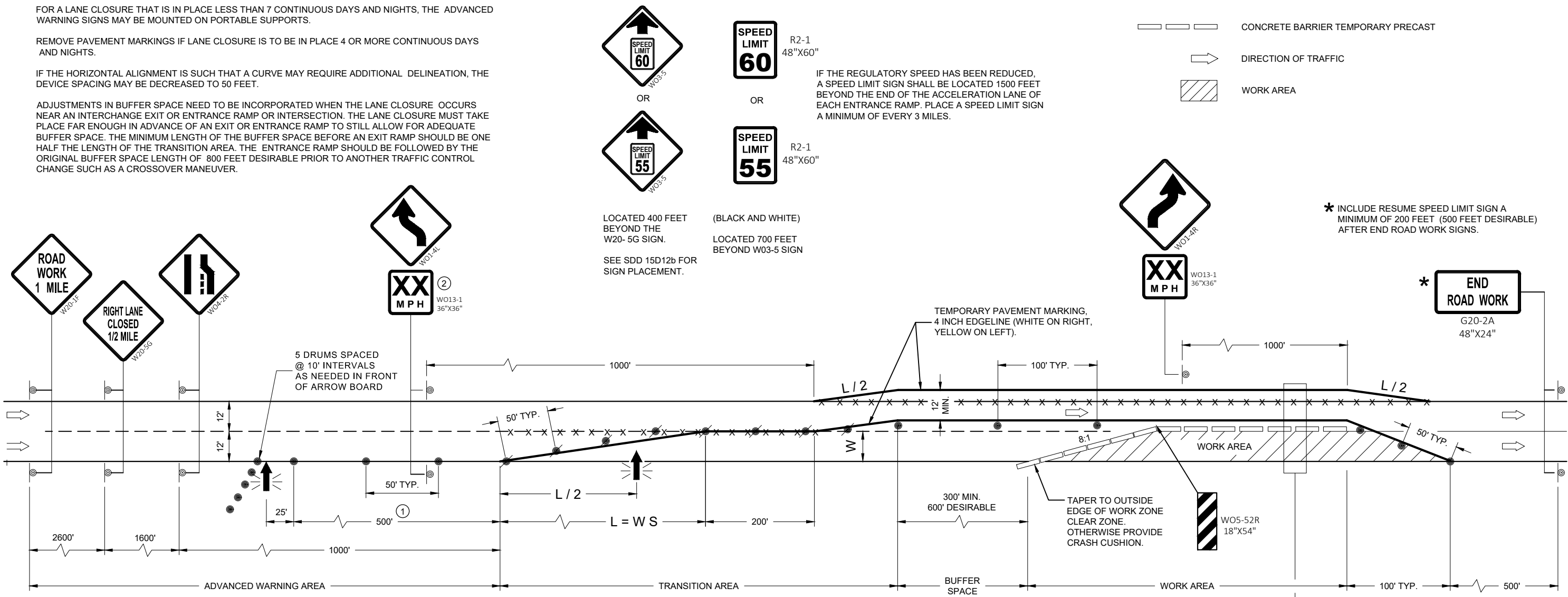
IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE ONE HALF THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

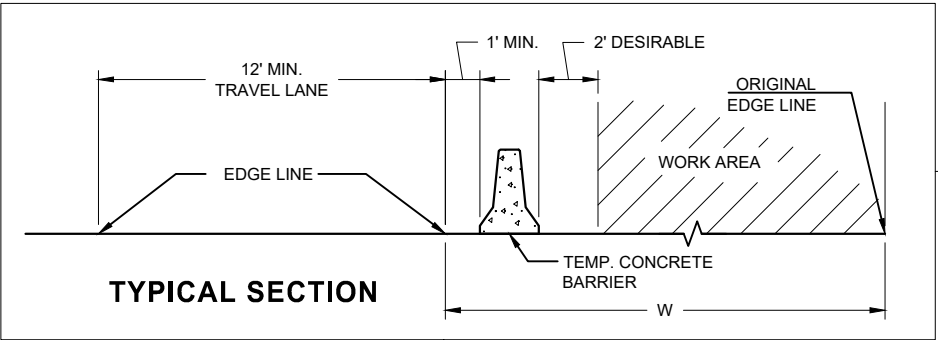
- ①
- CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.
- ②
- IF NEEDED, USE ONLY IF DESIGN SPEED IS 10 MPH LESS THAN POSTED SPEED.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- FLASHING ARROW BOARD
- REMOVING PAVEMENT MARKING
- CONCRETE BARRIER TEMPORARY PRECAST
- DIRECTION OF TRAFFIC
- WORK AREA



SPEED (MPH)	L, TAPER LENGTH (MPH)											
	W, LATERAL OFFSET (FT)											
	1	2	3	4	5	6	7	8	9	10	11	12
45	45	90	135	180	225	270	315	360	405	450	495	540
50	50	100	150	200	250	300	350	400	450	500	550	600
55	55	110	165	220	275	330	385	440	495	550	605	660
60	60	120	180	240	300	360	420	480	540	600	660	720
65	65	130	195	260	325	390	455	520	585	650	715	780
70	70	140	210	280	350	420	490	560	630	700	770	840



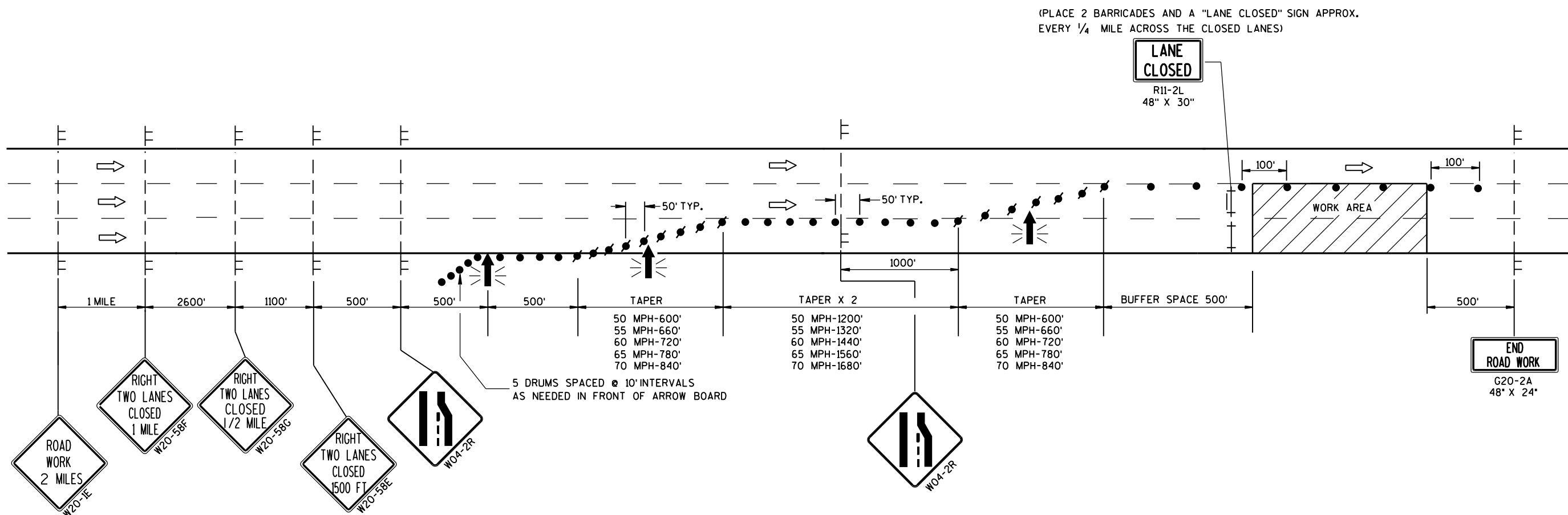
TRAFFIC CONTROL
LANE CLOSURE, SPEEDS
GREATER THAN 40 MPH
WITH BARRIER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018 /S/ Andrew Heidtke
DATE WORK ZONE ENGINE 147
FHWA

SDD 15D03-05

SDD 15D03-05



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- WORK AREA

GENERAL NOTES

THIS DETAIL IS TYPICAL FOR CLOSING THE RIGHT TWO LANES. FOR CLOSING THE LEFT TWO LANES, REVERSE THE TRAFFIC CONTROL.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

W20-1E AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROWBOARDS AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

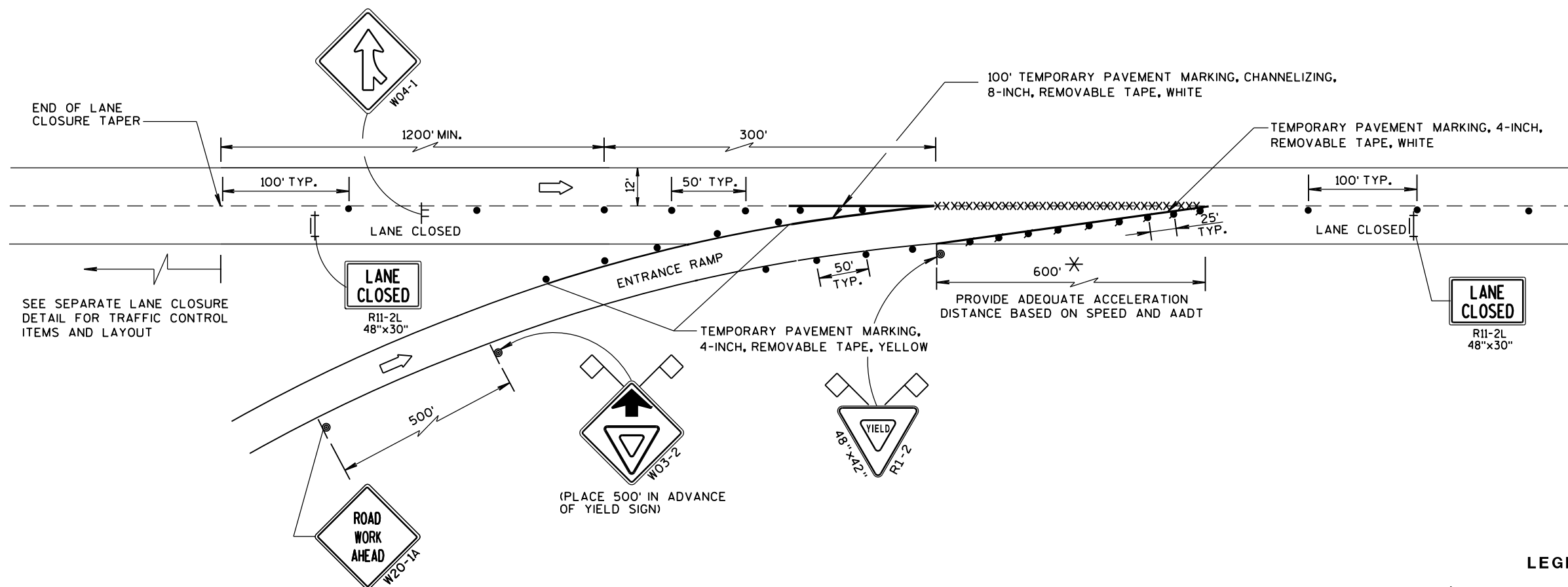
WHEN A RAMP OR SIDE ROAD INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

TRAFFIC CONTROL. TWO LANE CLOSURE ON FREEWAY OR EXPRESSWAY. SHORT TERM (LESS THAN 24 HOURS)		
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION		
APPROVED July 14, 2015 DATE	/S/ Peter Amakobe Atepe STATEWIDE WORK ZONE SAFETY ENGINEER 148	IC
FHWA		



TAPERED ENTRANCE RAMP WITHIN RIGHT LANE CLOSURE

GENERAL NOTES

THE INSTALLATIONS SHOWN ON THIS SHEET ARE TYPICAL EXAMPLES AND ARE NOT INTENDED TO REPRESENT ANY PARTICULAR RAMP. AT SPECIFIC FIELD LOCATIONS, SIMILAR INSTALLATIONS SHALL BE USED AND ADJUSTED TO THE GEOMETRICS OF THE RAMP AS COORDINATED WITH THE ENGINEER.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

SEE SEPARATE LANE CLOSURE DETAIL FOR TYPICAL SPACING OF TYPE III BARRICADES AND R11-2L "LANE CLOSED" SIGNS.

YIELD SIGN AND WARNING SIGNS ON ENTRANCE RAMP ARE ALSO APPROPRIATE FOR CLOSURE OF THE MAINLINE LEFT LANE. OMIT THE YIELD SIGN IF MORE THAN ONE LANE REMAINS OPEN ON THE MAINLINE AND THE RAMP TAPER IS AT LEAST AS LONG AS THE NORMAL ENTRANCE RAMP TAPER AT THE SITE.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF INDICATED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE FLEXIBLE TUBULAR MARKERS FOR DRUMS IN THE GORE BETWEEN THE ENTRANCE RAMP AND MAINLINE TRAFFIC.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

✱ CONSULT WITH REGIONAL WORK ZONE ENGINEER IF NEED TO REDUCE LENGTH EXISTS.

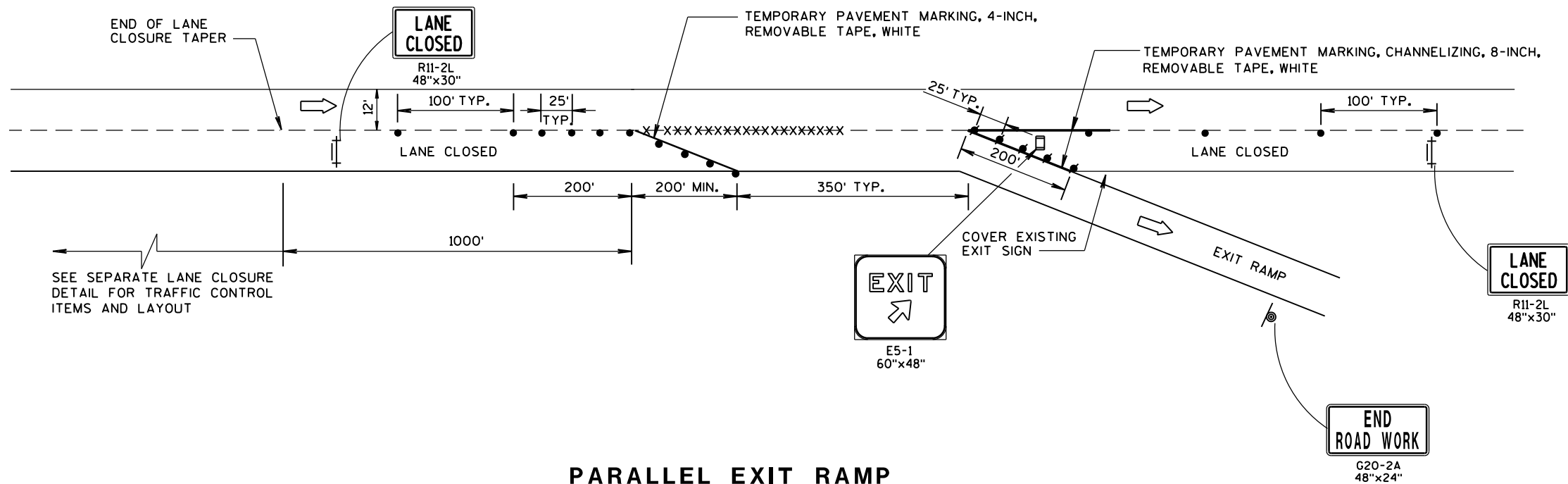
LEGEND

- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- TYPE III BARRICADE WITH ATTACHED SIGN
- FLAGS, 16" x 16" MIN., (ORANGE)
- DIRECTION OF TRAFFIC

TRAFFIC CONTROL,
TAPERED ENTRANCE RAMP
WITHIN LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2017 /S/ Andrew Heidtke
DATE WORK ZONE EN 149
FHWA



PARALLEL EXIT RAMP

GENERAL NOTES

THE INSTALLATIONS SHOWN ON THIS SHEET ARE TYPICAL EXAMPLES AND ARE NOT INTENDED TO REPRESENT ANY PARTICULAR RAMP, AT SPECIFIC FIELD LOCATIONS, SIMILAR INSTALLATIONS SHALL BE USED AND ADJUSTED TO THE GEOMETRICS OF THE RAMP AS COORDINATED WITH THE ENGINEER.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

SEE SEPARATE LANE CLOSURE DETAIL FOR TYPICAL SPACING OF TYPE III BARRICADES AND R11-2L "LANE CLOSED" SIGNS.

YIELD SIGN AND WARNING SIGNS ON ENTRANCE RAMP ARE ALSO APPROPRIATE FOR CLOSURE OF THE MAINLINE LEFT LANE. OMIT THE YIELD SIGN IF MORE THAN ONE LANE REMAINS OPEN ON THE MAINLINE AND THE RAMP TAPER IS AT LEAST AS LONG AS THE NORMAL ENTRANCE RAMP TAPER AT THE SITE.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF INDICATED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE FLEXIBLE TUBULAR MARKERS FOR DRUMS IN THE GORE BETWEEN THE ENTRANCE RAMP AND MAINLINE TRAFFIC.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

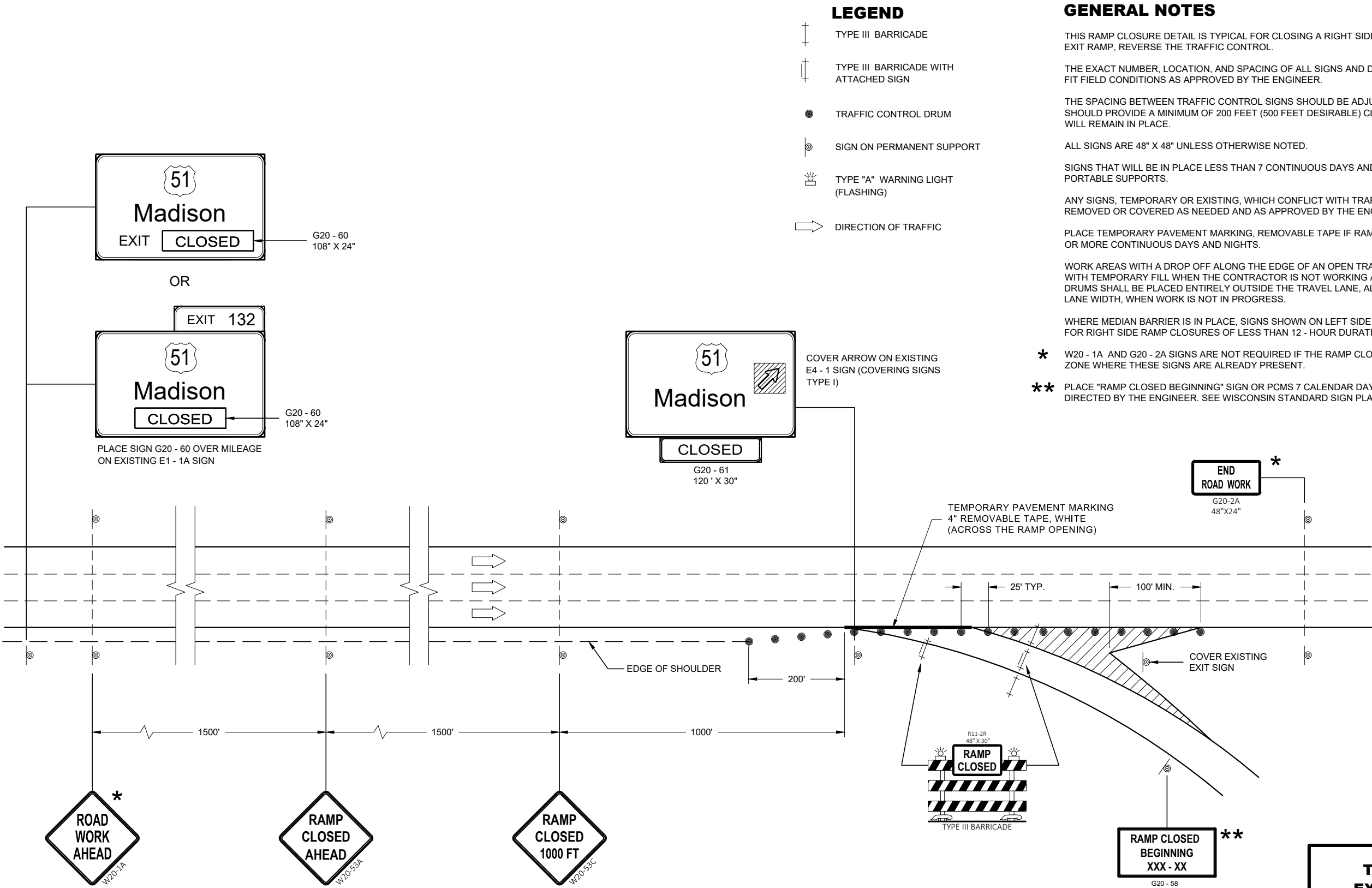
LEGEND

- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- TYPE III BARRICADE WITH ATTACHED SIGN
- FLAGS, 16" x 16" MIN., (ORANGE)
- DIRECTION OF TRAFFIC

TRAFFIC CONTROL,
PARALLEL EXIT RAMP
WITHIN LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
DATE Sept., 2017 /S/ Andrew Heidtke
WORK ZONE ENC 150
FHWA



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC

GENERAL NOTES

- THIS RAMP CLOSURE DETAIL IS TYPICAL FOR CLOSING A RIGHT SIDE EXIT RAMP. FOR A LEFT SIDE EXIT RAMP, REVERSE THE TRAFFIC CONTROL.
- THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
- THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.
- ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
- SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.
- ANY SIGNS, TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.
- PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF RAMP CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.
- WORK AREAS WITH A DROP OFF ALONG THE EDGE OF AN OPEN TRAVEL LANE SHALL BE LEVELED WITH TEMPORARY FILL WHEN THE CONTRACTOR IS NOT WORKING ADJACENT TO THE TRAVEL LANE. DRUMS SHALL BE PLACED ENTIRELY OUTSIDE THE TRAVEL LANE, ALLOWING THE FULL UNOBSTRUCTED LANE WIDTH, WHEN WORK IS NOT IN PROGRESS.
- WHERE MEDIAN BARRIER IS IN PLACE, SIGNS SHOWN ON LEFT SIDE OF ROADWAY MAY BE OMITTED FOR RIGHT SIDE RAMP CLOSURES OF LESS THAN 12 - HOUR DURATION.
- * W20 - 1A AND G20 - 2A SIGNS ARE NOT REQUIRED IF THE RAMP CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.
- ** PLACE "RAMP CLOSED BEGINNING" SIGN OR PCMS 7 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES FOR SIGN LAYOUT.

TRAFFIC CONTROL
EXIT RAMP CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER 151

FHWA

LEGEND

- TRAFFIC CONTROL DRUM
- ⦿ SIGN ON PERMANENT SUPPORT
- ➡ DIRECTION OF TRAFFIC
- ⚡➡ FLASHING ARROW BOARD
- ▨ WORK AREA

GENERAL NOTES

THIS DETAIL IS TYPICAL FOR CLOSING THE RIGHT SHOULDER. FOR CLOSING THE LEFT SHOULDER, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR DIVIDED ROADWAYS WITH ANY NUMBER OF TRAVEL LANES.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

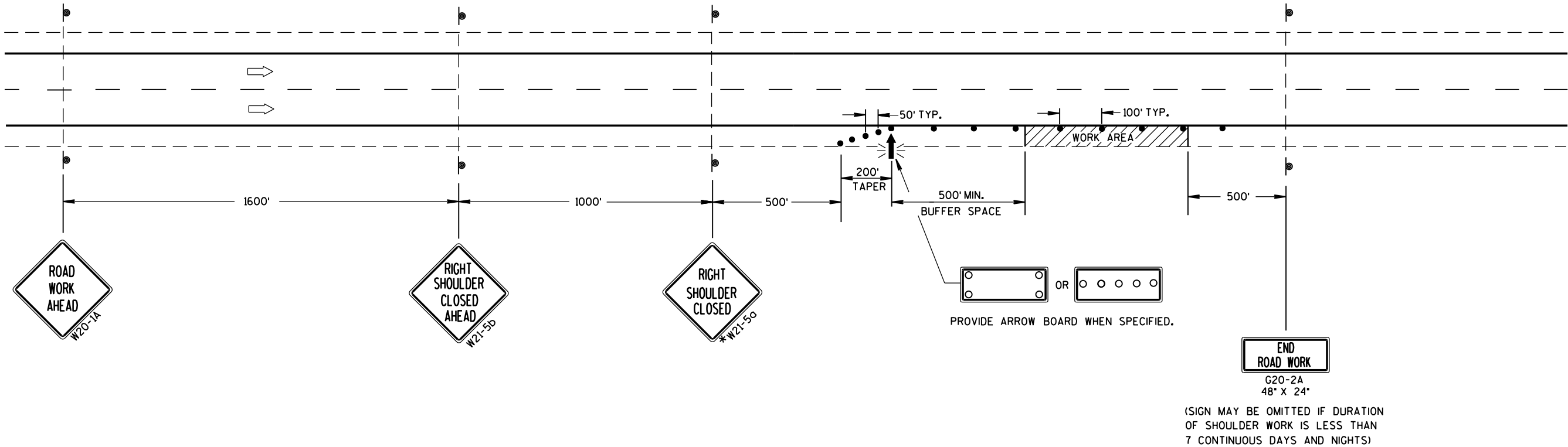
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

*FOR SHORT DURATION SHOULDER WORK OF LESS THAN ONE HOUR, THE W21-5a SIGN MAY BE OMITTED.



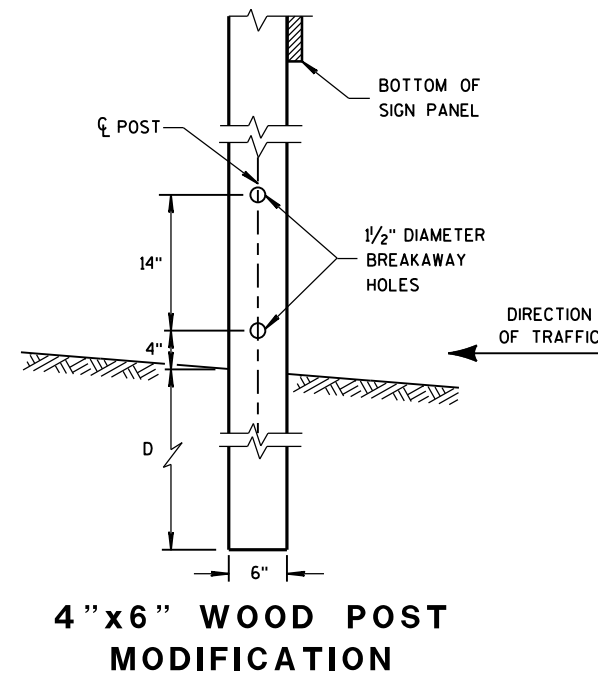
TRAFFIC CONTROL SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH		
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION		
APPROVED		
June 2016	/S/ Peter Amakobe Atepe	
DATE	STATEWIDE WORK ZONE	152
FHWA	SAFETY ENGINEER	IC



AREA OF SIGN INSTALLATION (SQ. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

GENERAL NOTES

- ① 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.
- ② THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.
- ③ FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.



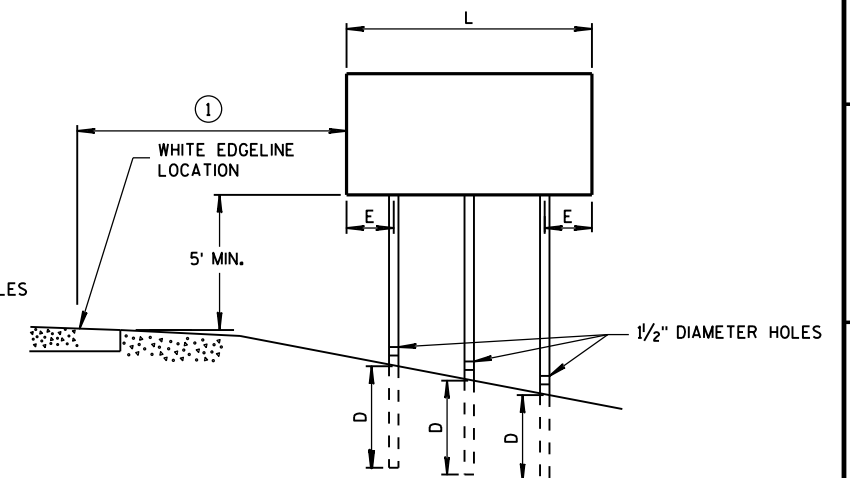
POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'



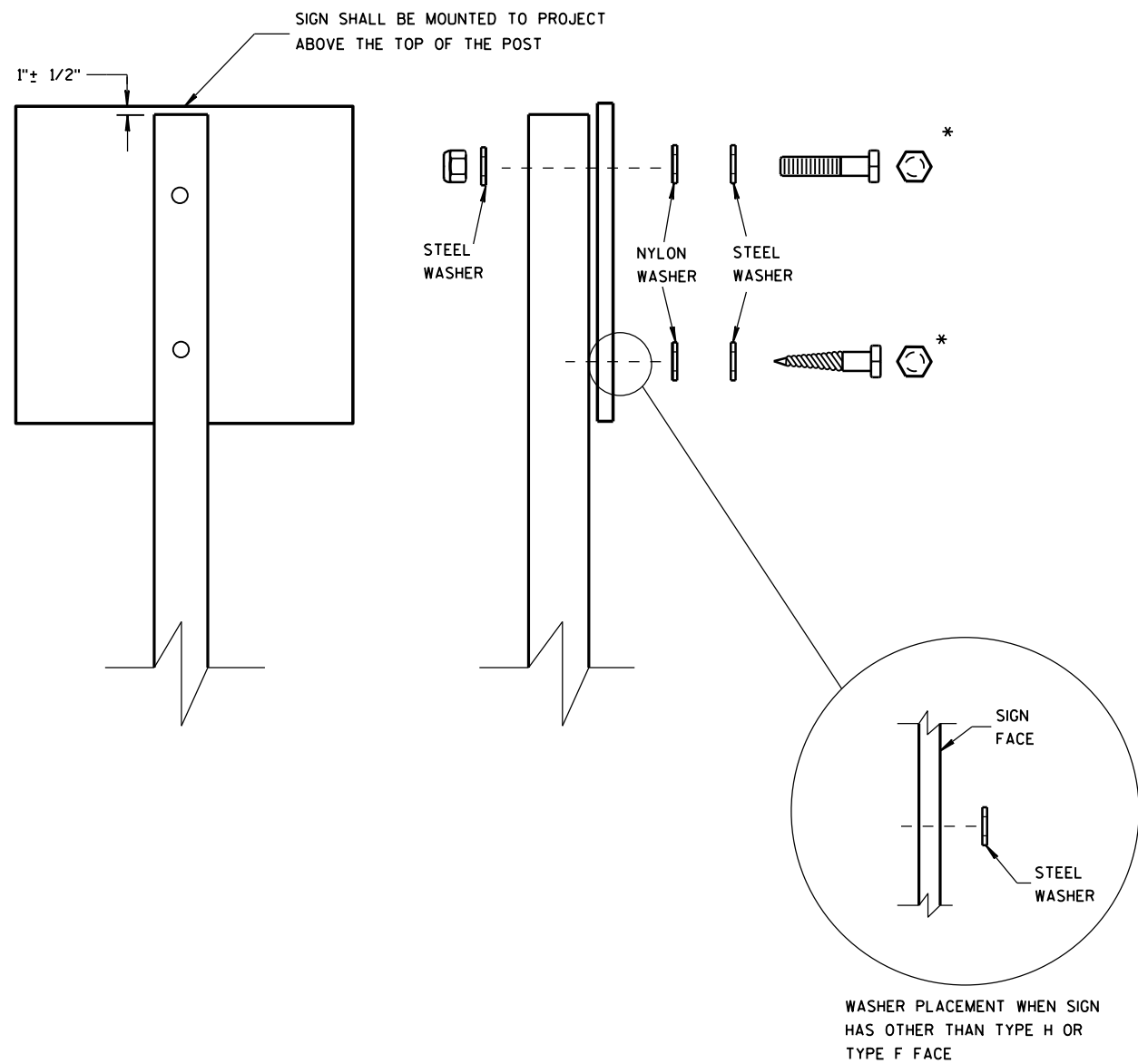
POST SPACING REQUIREMENTS		NUMBER OF WOOD POSTS REQUIRED
L	E	
48" OR LESS AND LESS THAN 20 SQ. FT.	-	1
LESS THAN 60"	12"	2
60" TO 120"	L/5	2
GREATER THAN 120" LESS THAN 168"	12"	3
168" AND GREATER	12"	4

SEE NOTE (3)



TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

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NUTS, BOLTS AND LAGS USED FOR MOUNTING SIGNS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

- A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3
- B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

- WOOD POSTS (4" x 4" or 4" x 6")
- LAG SCREWS - 3/8" x 3"
 - MACHINE BOLTS - 5/16" x 6-1/2" OR 7" LENGTH W/ NUTS

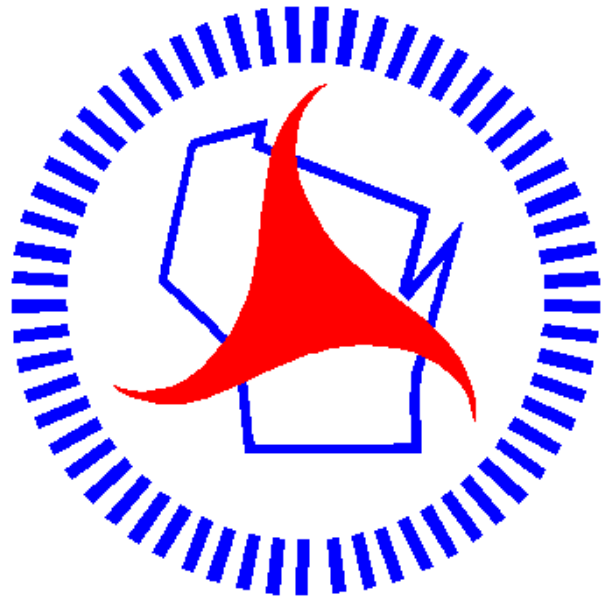
- SQUARE STEEL POSTS (2" x 2")
- MACHINE BOLTS - 3/8" x 3-1/4" LENGTH W/ NUTS
 - RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

- WASHERS (ALL POSTS) -
- 1-1/4" O.D. x 3/8" I.D. x 1/16" STEEL
 - 1-1/4" O.D. x 3/8" I.D. x .080 NYLON FOR ALL TYPE H SIGNS

* TWO DIFFERENT FASTENING SYSTEMS ARE SHOWN FOR ILLUSTRATION PURPOSES. ON ANY INDIVIDUAL SIGN, EITHER ONE OR THE OTHER SYSTEM SHALL BE USED. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

ATTACHMENT OF SIGNS TO POSTS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED June 2017 DATE	/S/ Andrew Heidtke WORK ZONE EN 154
FHWA	

Notes



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

<http://www.dot.wisconsin.gov>