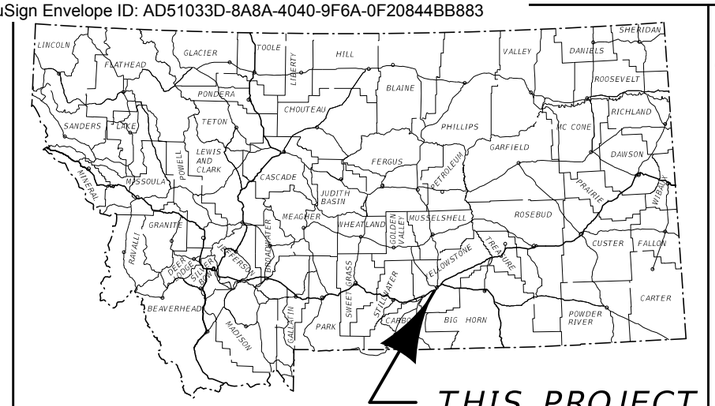
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MONTANA DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT NO. HSIP 90-8(190)446
SF 169 I90 W KING AVE LIGHTING
ROADWAY & ROADSIDE SAFETY IMPROVEMENTS
YELLOWSTONE COUNTY

LENGTH N/A MILES

PROJECT DESIGN DATA		
PRESENT 2018	A.D.T. =	30,720
LETTING 2020	A.D.T. =	32,340
DESIGN 2040	A.D.T. =	54,040
	D.H.V. =	5,620
	TRUCKS =	12.2%

THIS CONTRACT

RP 445.958 TO RP 447.190 ON I-90

BILLINGS

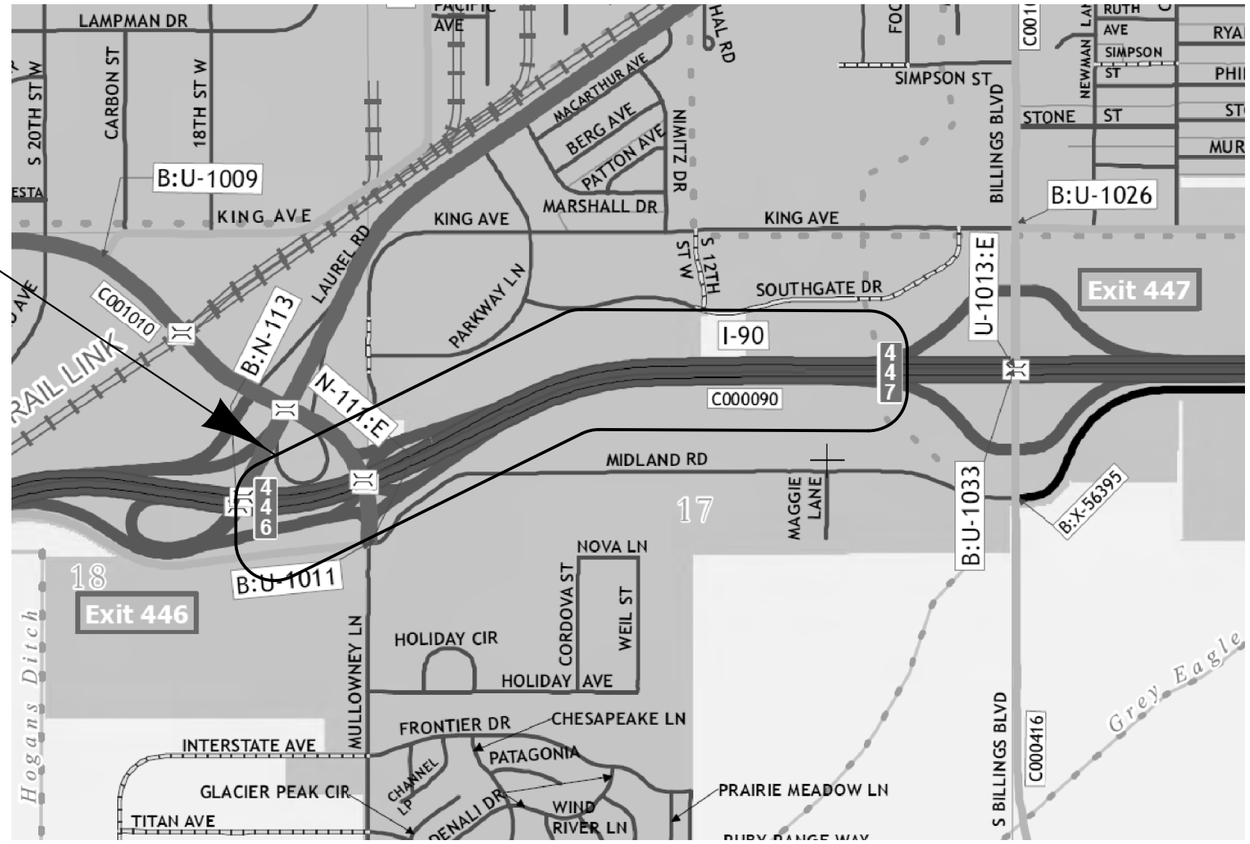


TABLE OF CONTENTS

PLANS	SHEET NO.
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CONTROL DIAGRAM	2
ELECTRICAL QUANTITIES & DETAILS	E1 - E4
ELECTRICAL PLANS	E5 - E7

RELATED PROJECTS

ASSOCIATED PROJECT AGREEMENT NUMBERS	
R / W	
I.C.	
P. E.	HSIP-G 90-8(189)446

MONTANA
DEPARTMENT OF TRANSPORTATION

MALCOLM "MACK" LONG
DIRECTOR OF TRANSPORTATION

APPROVED BY:

TRAFFIC AND SAFETY ENGINEER

MONTANA LICENSED PROFESSIONAL ENGINEER
GABE B. PRIEBE
13957PE

DocuSigned by:
Gabe Priebe
4895FFA73587466...

5/4/2021
DATE

3	MDT	MONTANA DEPARTMENT OF TRANSPORTATION	C:\dgn\9421000ELTTL001.DGN	DESIGNED BY		
2			1/12/2021	REVIEWED BY		
			3:13:33 AM u7893	CHECKED BY		

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CONTROL DIAGRAM

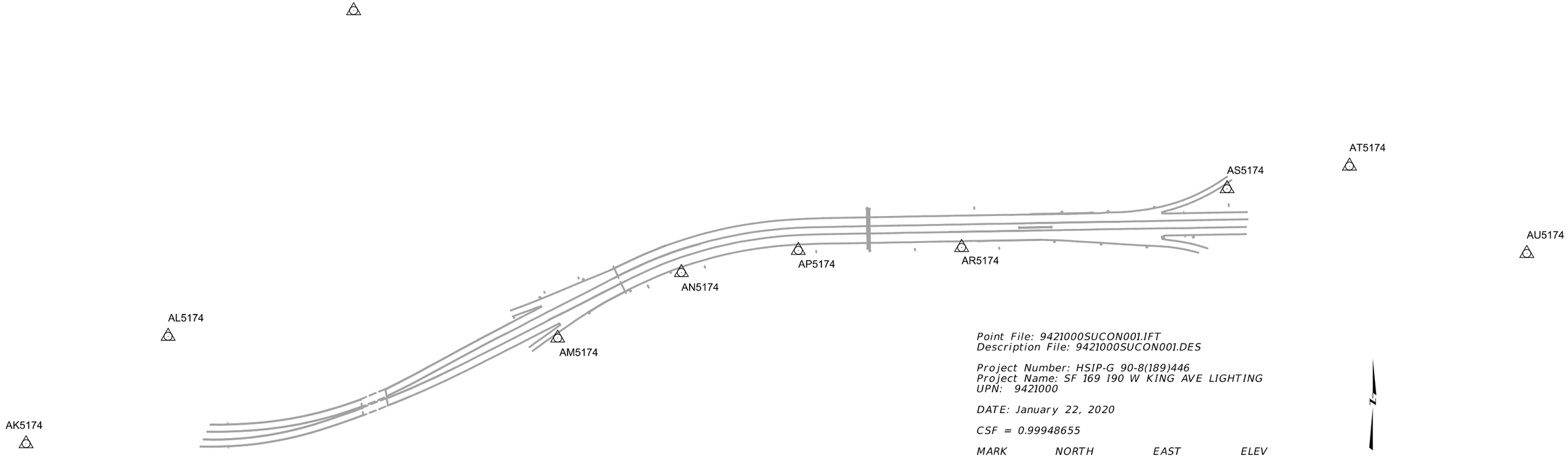
NO SCALE

CONTROL ABSTRACT

POINT NAME/NUMBER	N OR Y COORDINATE	E OR X COORDINATE	POINT ELEVATION	LOCATION AND DESCRIPTION
AK5174	548,039.100	2,207,420.771	3185.27	SET 2 INCH ALUMINUM CAP FLUSH WITH GROUND STAMPED AK5174 2006, AT MP 445.8 ON EAST BOUND RAMP AT KING AVENUE OVERPASS, 27' NORTHWEST OF CENTERLINE OF EAST BOUND RAMP, 31' WEST OF DELINEATOR POST, 24' NORTH OF WITNESS POST SET AT DELINEATOR POST.
AL5174	548,617.079	2,208,184.649	3196.17	SET 2 INCH ALUMINUM CAP FLUSH WITH GROUND STAMPED AL5174 2006, ON WEST BOUND RAMP AT KING AVENUE OVERPASS, 12' SOUTHEAST OF CENTERLINE OF WEST BOUND RAMP, 10' SOUTHEAST OF CONCRETE POST AT END OF GUARDRAIL, 10' SOUTHEAST OF WITNESS POST SET AT DELINEATOR POST.
AM5174	548,607.585	2,210,281.017	3173.44	SET 2 INCH ALUMINUM CAP FLUSH WITH GROUND STAMPED AM5174 2006, AT MP 446.4 ON EAST BOUND RAMP AT KING AVENUE OVERPASS, 37' SOUTH OF CENTERLINE OF EAST BOUND RAMP, 47' NORTH OF WITNESS POST IN EAST/WEST RAIL FENCE.
AN5174	548,960.739	2,210,946.313	3167.09	SET 2 INCH ALUMINUM CAP FLUSH WITH GROUND STAMPED AN5174 2006, AT MP 446.5 ON EAST BOUND LANE OF INTERSTATE 90, 27' SOUTH OF EDGE OF PAVEMENT OF EAST BOUND LANE, 58' SOUTHEAST OF LIGHT POLE, 22' NORTH OF WITNESS POST IN EAST/WEST RAIL FENCE.
AP5174	549,079.698	2,211,575.641	3163.08	SET 2 INCH ALUMINUM CAP FLUSH WITH GROUND STAMPED AP5174 2006, AT MP 446.6 ON EAST BOUND LANE OF INTERSTATE 90, 31' SOUTH OF EDGE OF PAVEMENT OF EAST BOUND LANE, 96' WEST OF SIGN (FOOD-EXIT 447), 17' NORTH OF WITNESS POST IN EAST/WEST RAIL FENCE.

CONTROL ABSTRACT

POINT NAME/NUMBER	N OR Y COORDINATE	E OR X COORDINATE	POINT ELEVATION	LOCATION AND DESCRIPTION
AR5174	549,095.184	2,212,454.351	3160.11	SET 2 INCH ALUMINUM CAP FLUSH WITH GROUND STAMPED AR5174 2006, AT MP 446.8 ON EAST BOUND LANE OF INTERSTATE 90, 34' SOUTH OF EDGE OF PAVEMENT OF EAST BOUND LANE, 90' SOUTHWEST OF END OF GUARDRAIL, 14' NORTH OF WITNESS POST IN EAST/WEST RAIL FENCE.
AS5174	549,411.631	2,213,882.368	3157.33	SET 2 INCH ALUMINUM CAP FLUSH WITH GROUND STAMPED AS5174 2006, AT MP 0.15 MILES WEST ON WEST BOUND RAMP TO INTERSTATE 90 AT SOUTH BILLINGS BOULEVARD, 38' SOUTH OF CENTERLINE OF WEST BOUND RAMP, 84' NORTH OF SIGN (FOOD-EXIT 446), 20' SOUTH OF WITNESS POST AT DELINEATOR POST.
AT5174	549,533.472	2,214,541.018	3173.37	SET 2 INCH ALUMINUM CAP FLUSH WITH GROUND STAMPED AT5174 2006, ON SOUTH BILLINGS BOULEVARD AT NORTH END OF OVERPASS, 5' WEST OF BACK OF GUARDRAIL, 10' SOUTH OF END OF GUARDRAIL, 41' EAST OF CHAIN LINK FENCE, 5' WEST OF WITNESS POST.
AU5174	549,063.410	2,215,495.131	3155.44	SET 2 INCH ALUMINUM CAP FLUSH WITH GROUND STAMPED AU5174 2006, AT MP 0.26 ON FRONTAGE ROAD (NORTH OF INTERSTATE TRUCK CENTER), 36' NORTH OF CENTERLINE OF FRONTAGE ROAD, 46' SOUTH OF WITNESS POST IN EAST/WEST CHAIN LINK FENCE.
G483	550,370.776	2,209,183.026	3171.64	FOUND HARN MARK. IN BILLINGS, 0.15 MILES EAST OF INTERSECTION OF KING AVENUE WEST AND 18TH STREET WEST, 160' FT SOUTHEAST ACROSS 3 SETS OF RAILROAD TRACKS, 240' NORTHEAST AROUND A DRAINAGE DITCH, 38' SOUTHEAST OF SOUTH RAIL, 2' SOUTHWEST OF WITNESS POST. SEE NGS DATA SHEET FOR ADDITIONAL INFORMATION.



Point File: 9421000SUCON001.IFT
Description File: 9421000SUCON001.DES

Project Number: HSIP-G 90-8(189)446
Project Name: SF 169 190 W KING AVE LIGHTING
UPN: 9421000

DATE: January 22, 2020

CSF = 0.99948655

MARK	NORTH	EAST	ELEV
AK5174	548039.100	2207420.771	3185.27
AL5174	548617.079	2208184.649	3196.17

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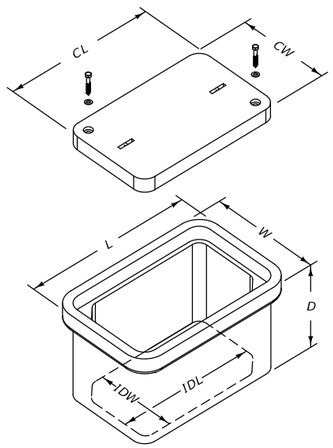
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ELECTRICAL QUANTITY SUMMARY

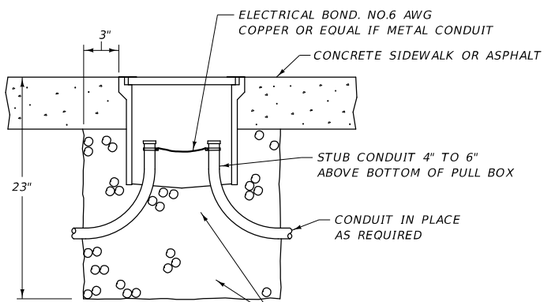
ITEM NO.	MATERIAL	TOTAL	UNIT
616 343 914	CONDUIT - PLASTIC 1 1/2 IN	10,500.0	LN FT
616 343 920	CONDUIT - PLASTIC 2 IN	560.0	LN FT
616 783 007	PULL BOX - COMPOSITE TYPE 2	9	EACH
617 000 000	FOUNDATION - CONCRETE	35.0	CU YD
617 123 104	CONDUCTOR - COPPER AWG4-600 V	6,080.0	LN FT
617 123 106	CONDUCTOR - COPPER AWG6-600 V	15,670.0	LN FT
617 123 110	CONDUCTOR - COPPER AWG10-600 V	16,330.0	LN FT
617 183 056	STANDARD-STL TYPE 10-A-500-6	46	EACH
617 303 300	HIGH EFFICACY LUMINAIRE LED	53	EACH
617 333 198	SERV ASSEMBLY - 200 AMP	1	EACH
617 781 000	REMOVE AND SALVAGE MISC ELECTRICAL	1	LS

QUANTITY SUMMARY

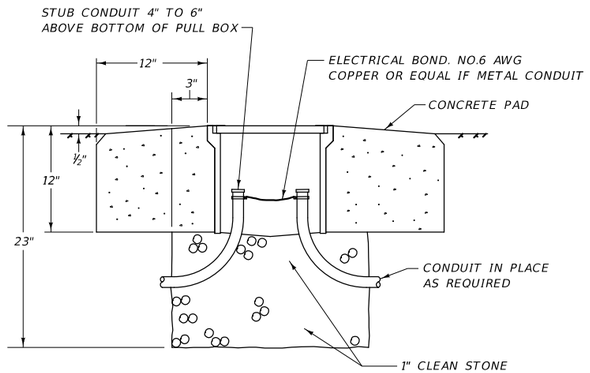
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PULL BOX - COMPOSITE MINIMUM DIMENSIONS		
TYPE 1	TYPE 2	TYPE 3
L = 20"	L = 25"	L = 32"
W = 13"	W = 15"	W = 19"
D = 12"	D = 12"	D = 12"
I D L = 17"	I D L = 21"	I D L = 28"
I D W = 10"	I D W = 11"	I D W = 15"
C L = 18"	C L = 23"	C L = 30"
C W = 11"	C W = 13"	C W = 17"



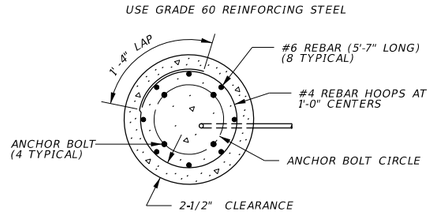
PULL BOX INSTALLED IN A SIDEWALK OR ASPHALT



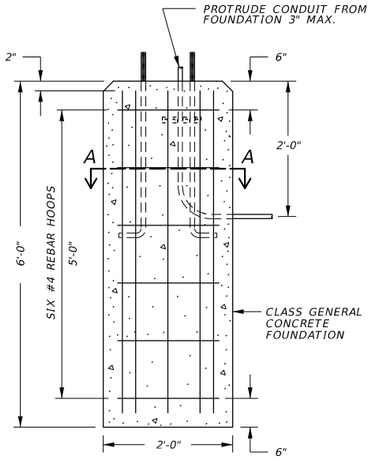
PULL BOX INSTALLED IN DIRT

PULL BOX-COMPOSITE TYPE 1,2 & 3

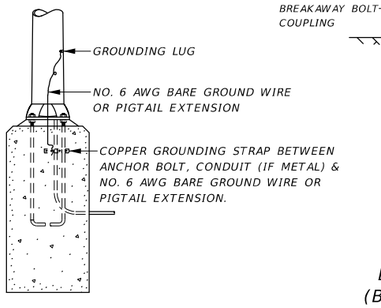
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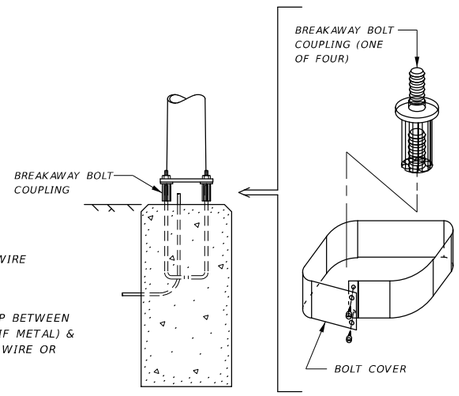


SECTION A-A



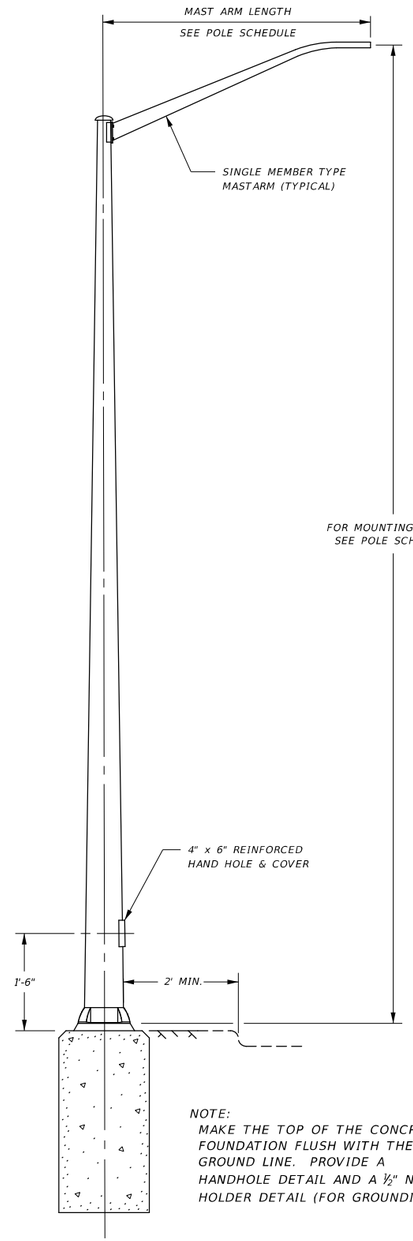
FOUNDATION DETAIL





BOLT COUPLING (BREAKAWAY TYPE)

BASE TYPE FOR LUMINAIRE STANDARDS



NOTE:
MAKE THE TOP OF THE CONCRETE FOUNDATION FLUSH WITH THE GROUND LINE. PROVIDE A HANDHOLE DETAIL AND A ½" NUT HOLDER DETAIL (FOR GROUNDING) .

TYPE 10-A POLE

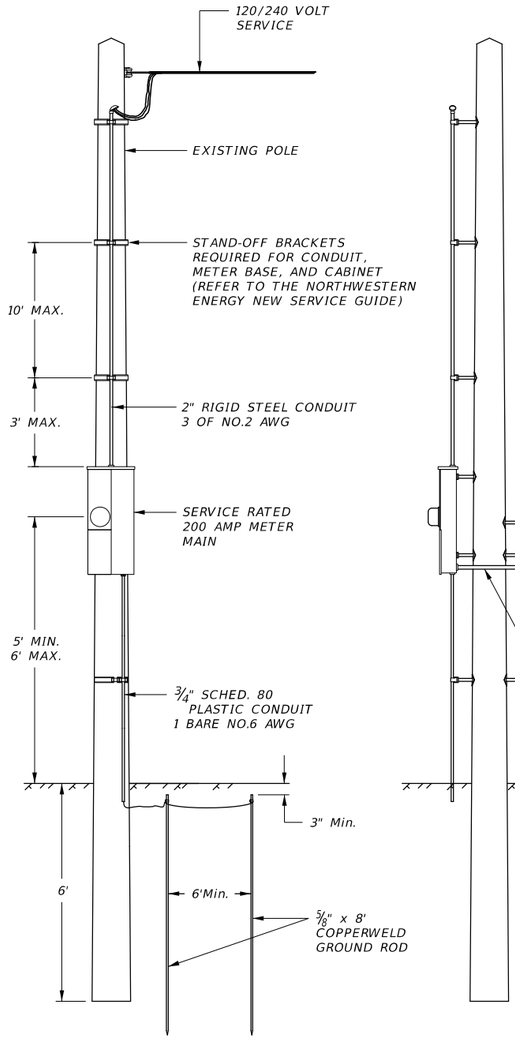
TYPE 10-A LUMINAIRE STANDARDS, POLE BASES & FOUNDATION DETAILS

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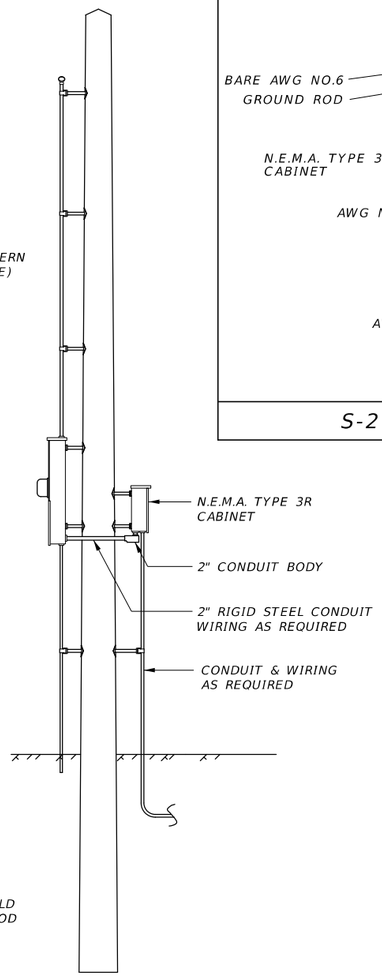
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2		1/12/2021	REVIEWED BY			YELLOWSTONE COUNTY	UPN 9421000 / SHEET E1
		5:14:08 AM u7893	CHECKED BY				

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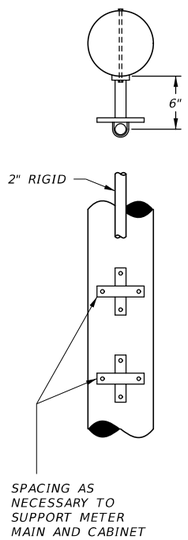
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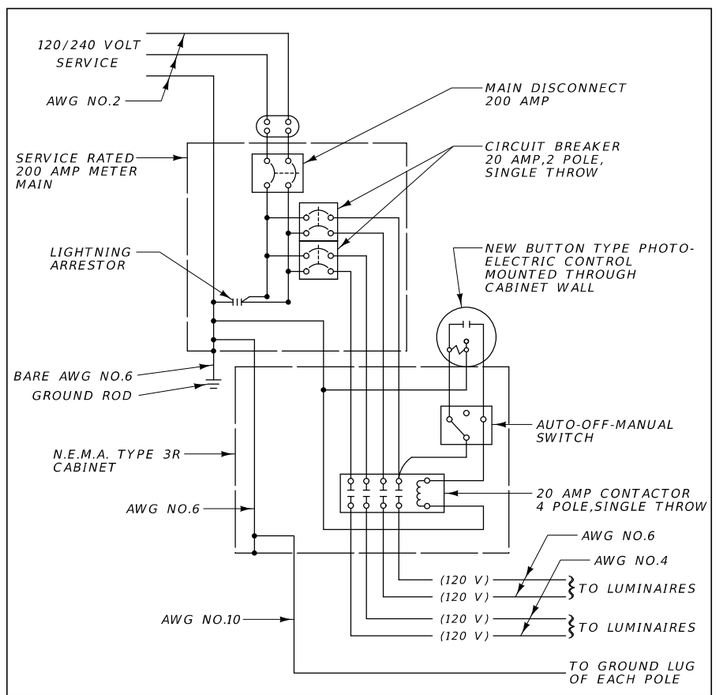


FRONT



SIDE





S-2 NEW SERVICE WIRING DIAGRAM

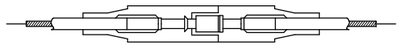
SERVICE ASSEMBLY DETAIL

WOOD POLE

NO SCALE

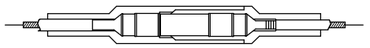
IDENTITY NO.	DESCRIPTIVE SYMBOL & WIRE SIZES
1	8 — 8
2	8 — 10
3	8, 8 — 10
4	8, 8 — 8
5	8, 8 — 8
6	6 — 6
7	6 — 10
8	6, 6 — 10
9	6, 6 — 6
10	6, 6 — 6
11	4 — 4
12	4 — 10
13	4, 4 — 10
14	4, 4 — 4
15	4, 4 — 4
16	10 — 10
17	10 — 10
18	10, 10 — 10
19	10, 10 — 10
20	10, 10 — 10
21	VARIES — VARIES, VARIES

TYPES 1,6,11 & 16



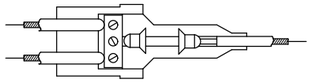
NON-FUSED BREAKAWAY

TYPES 2,7,12 & 17



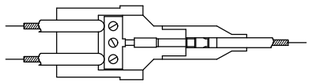
FUSED BREAKAWAY

TYPES 3,8,13 & 18



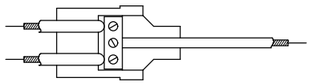
FUSED BREAKAWAY

TYPES 4,9,14 & 19



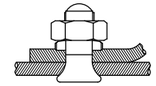
NON-FUSED BREAKAWAY

TYPES 5,10,15 & 20



NON-FUSED NON-BREAKAWAY

TYPE 21



COPPER SPLIT BOLT - MAKE WATERTIGHT USING SELF ADHERING MASTIC

PROVIDE A PLUG AND RECEPTACLE HOUSED IN WATER-RESISTANT, SYNTHETIC RUBBER CAPABLE OF BURIAL IN THE GROUND OR INSTALLATION IN SUNLIGHT. THE HOUSING, CONSISTING OF 2 SECTIONS, PROVIDES A WATERTIGHT SEAL AROUND THE CABLE AND A WATERTIGHT SEAL BETWEEN THE TWO SECTIONS AT THE POINT OF DISCONNECTION. SUPPLY EACH KIT WITH SUFFICIENT SILICONE COMPOUND TO LUBRICATE METAL PARTS AND THE RUBBER HOUSINGS FOR EASY ASSEMBLY.

WHERE INDICATED, CRIMP A COPPER PIN AND A COPPER RECEPTACLE TO THE CABLE. THE RECEPTACLE IS TO ESTABLISH CONTACT PRESSURE WITH THE PIN THROUGH THE USE OF A COPPER BERYLLIUM SPRING AND BE EQUIPPED WITH A DISPOSABLE MOUNTING PIN. THE PIN IS TO BE CONSTRUCTED OF AT LEAST HALF-HARD MATERIAL. THE CRIMPING PORTION IS TO BE FULLY ANNEALED WHILE THE REST OF THE PIN IS MAINTAINED IN ITS ORIGINAL STATE OF HARDNESS. THE RECEPTACLE IS TO BE FULLY ANNEALED. THE PIN AND RECEPTACLE ARE TO LOCK TOGETHER SO THE CONNECTION IS MAINTAINED WHEN A MINIMUM FORCE OF 89 NEWTONS TENSION IS APPLIED TO THE ATTACHED CABLES.

PROVIDE FUSED CONNECTOR KITS CONTAINING A PAIR OF SPRING LOADED 90% CONDUCTIVITY CONTACTS FOR GRIPPING A STANDARD MIDGET FERRULE TYPE FUSE. THE CONTACTS MUST BE FULLY ANNEALED AND ADAPTED TO BE CRIMPED TO THE CABLE.

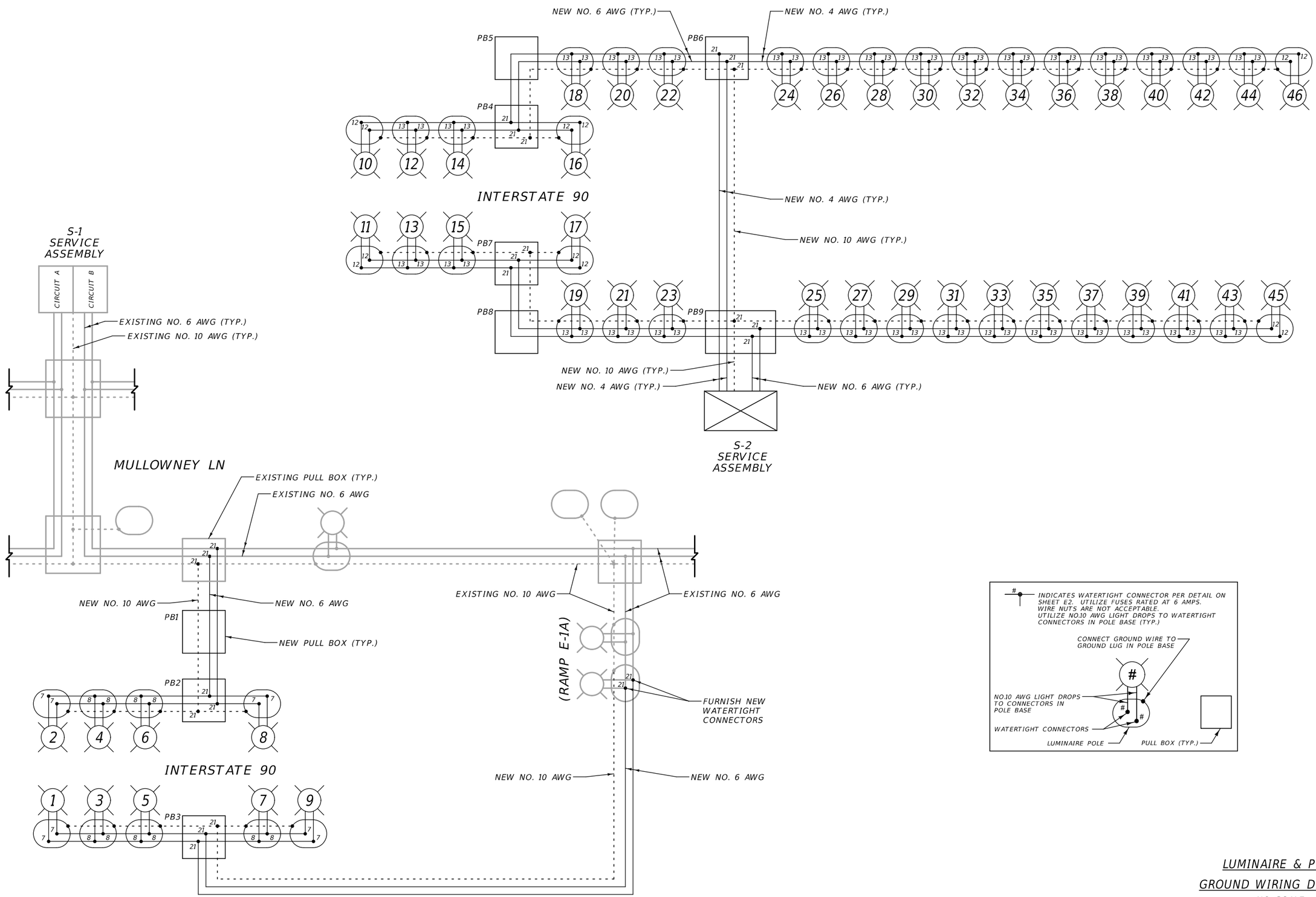
WATERTIGHT CONNECTORS

NO SCALE

3 / 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\dgn\9421000ELDET001.DG	DESIGNED BY	Dennis E. Schrock	Sept 2020	ELECTRICAL PLANS	SF 169 190 W KING AVE LIGHTING / HSIP 90-8(190)446
		1/12/2021	REVIEWED BY				
		5:14:34 AM u7893	CHECKED BY			YELLOWSTONE COUNTY	UPN 9421000 / SHEET E2

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LUMINAIRE & POLE GROUND WIRING DIAGRAM

NO SCALE

2 / 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\dgn\9421000ELDET001.DGN 1/12/2021 5:14:59 AM u7893	DESIGNED BY REVIEWED BY CHECKED BY	Dennis E. Schrock	Sept 2020	ELECTRICAL PLANS YELLOWSTONE COUNTY	SF 169 190 W KING AVE LIGHTING UPN 9421000	HSIP 90-8(190)446 SHEET E3

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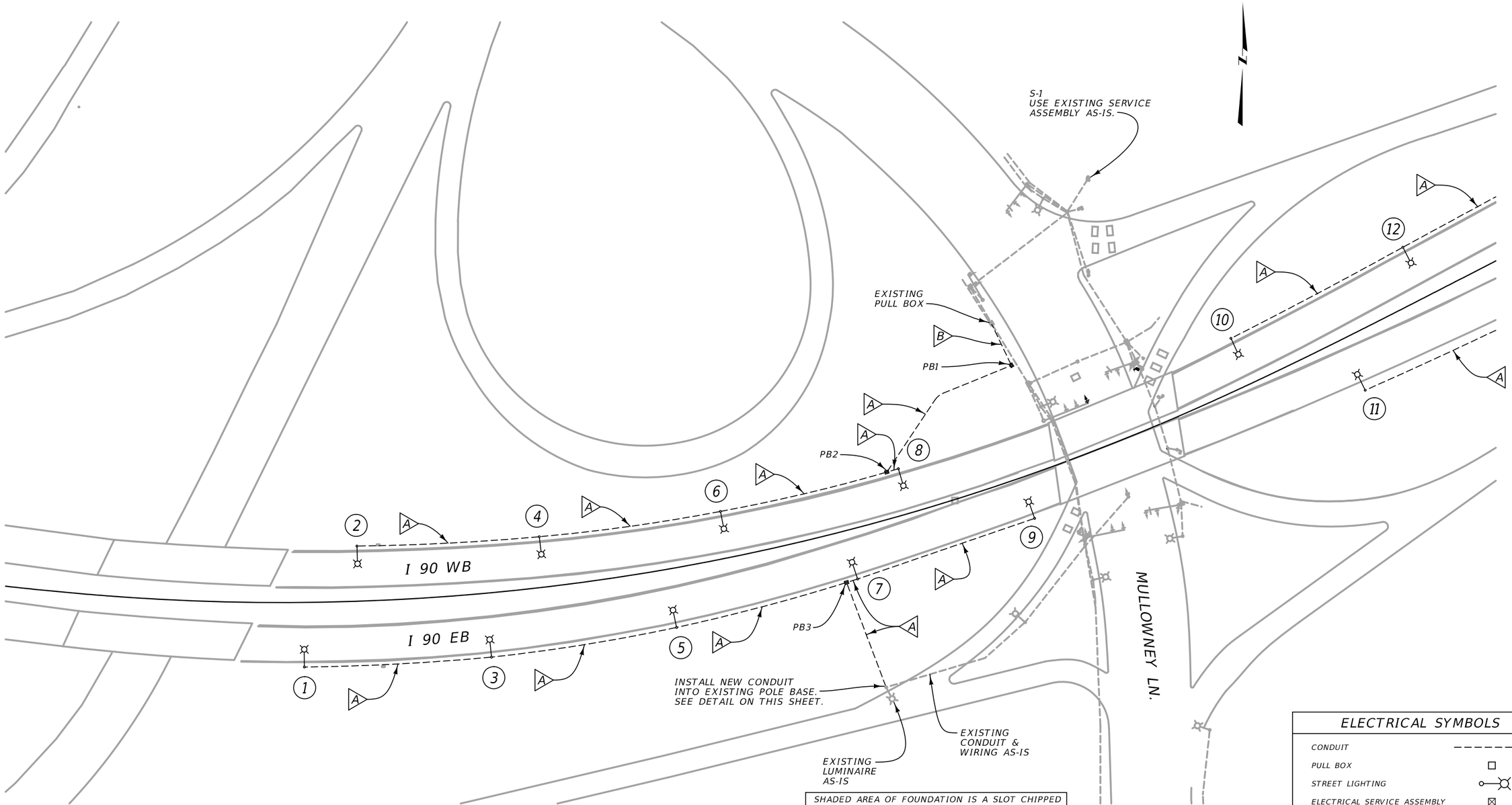
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LUMINAIRE POLE SCHEDULE

POLE NO.	ITEM NO.	TYPE	TYPE POLE BASE	FOUNDATION DIA.X DEPTH	LUMINAIRE MASTARM	LUMINAIRE HEIGHT	LUMINAIRE TYPE	N OR Y COORDINATES	E OR X COORDINATES	POLE NO.
1	617 183 056	10-A-500-6	ANCHOR	2'0" x 6'0"	15 FT	40 FT	LED	548,017.853	2,208,425.670	1
2								548,147.341	2,208,481.818	2
3								548,028.497	2,208,625.833	3
4								548,157.335	2,208,676.864	4
5								548,060.234	2,208,823.752	5
6								548,184.409	2,208,870.627	6
7								548,112.048	2,209,017.364	7
8								548,230.116	2,209,061.014	8
9								548,176.965	2,209,206.699	9
10								548,369.581	2,209,416.752	10
11			BREAKAWAY					548,314.053	2,209,560.354	11
12			ANCHOR					548,467.080	2,209,600.614	12
13			BREAKAWAY					548,403.078	2,209,751.544	13
14			ANCHOR					548,567.310	2,209,785.145	14
15			BREAKAWAY					548,496.948	2,209,939.413	15
16								548,671.076	2,209,981.418	16
17								548,601.247	2,210,144.407	17
18								548,786.062	2,210,077.883	18
19								548,619.448	2,210,276.036	19
20								548,860.753	2,210,264.370	20
21								548,733.442	2,210,442.308	21
22								548,943.580	2,210,463.557	22
23			ANCHOR					548,833.898	2,210,618.012	23
24			ANCHOR					549,018.162	2,210,635.401	24
25			BREAKAWAY					548,917.537	2,210,792.164	25
26								549,100.618	2,210,823.833	26
27								548,987.913	2,210,971.658	27
28								549,167.014	2,211,020.512	28
29								549,041.123	2,211,157.463	29
30								549,215.824	2,211,221.463	30
31								549,077.905	2,211,346.438	31
32								549,246.345	2,211,426.002	32
33								549,098.872	2,211,538.337	33
34								549,260.319	2,211,630.579	34
35								549,106.063	2,211,734.842	35
36								549,265.347	2,211,831.832	36
37								549,109.205	2,211,934.603	37
38								549,269.397	2,212,031.792	38
39								549,112.856	2,212,134.569	39
40								549,273.186	2,212,231.756	40
41								549,116.610	2,212,334.534	41
42								549,276.869	2,212,431.722	42
43								549,120.627	2,212,534.494	43
44								549,279.926	2,212,631.699	44
45								549,124.116	2,212,734.464	45
46								549,282.793	2,212,831.680	46
47-53	USE POLES IN PLACE AS IS. REMOVE & SALVAGE THE EXISTING LUMINAIRE FIXTURE AND INSTALL NEW LED LUMINAIRE FIXTURE.									47-53

NOTE: NEW POLE LOCATIONS ARE APPROXIMATE. MINOR FIELD ADJUSTMENT IS ALLOWABLE.

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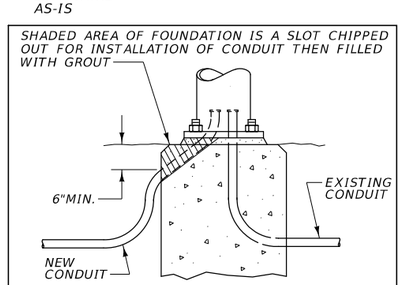
CONDUIT & WIRE SCHEDULE

A	1 of 1 1/2" SCHEDULE 80 PVC CONDUIT 2 of AWG6 CONDUCTOR (LIGHTING) 1 of AWG10 CONDUCTOR (POLE GROUND)
B	1 of 2" SCHEDULE 80 PVC CONDUIT 2 of AWG6 CONDUCTOR (LIGHTING) 1 of AWG10 CONDUCTOR (POLE GROUND)

PULL BOX SCHEDULE

NO.	TYPE	N OR Y COORDINATE	E OR X COORDINATE
PB1	TYPE 2	548,340.785	2,209,182.001
PB2	TYPE 2	548,226.484	2,209,048.623
PB3	TYPE 2	548,108.333	2,209,005.571

NOTE: NEW PULL BOX LOCATIONS ARE APPROXIMATE. FINAL LOCATION IS TO BE DETERMINED IN THE FIELD.



INSTALLATION OF CONDUIT INTO EXISTING POLE BASE

ELECTRICAL SYMBOLS

- CONDUIT
- PULL BOX
- STREET LIGHTING
- ELECTRICAL SERVICE ASSEMBLY
- POLE NUMBER (SEE SHEET E4) (#)

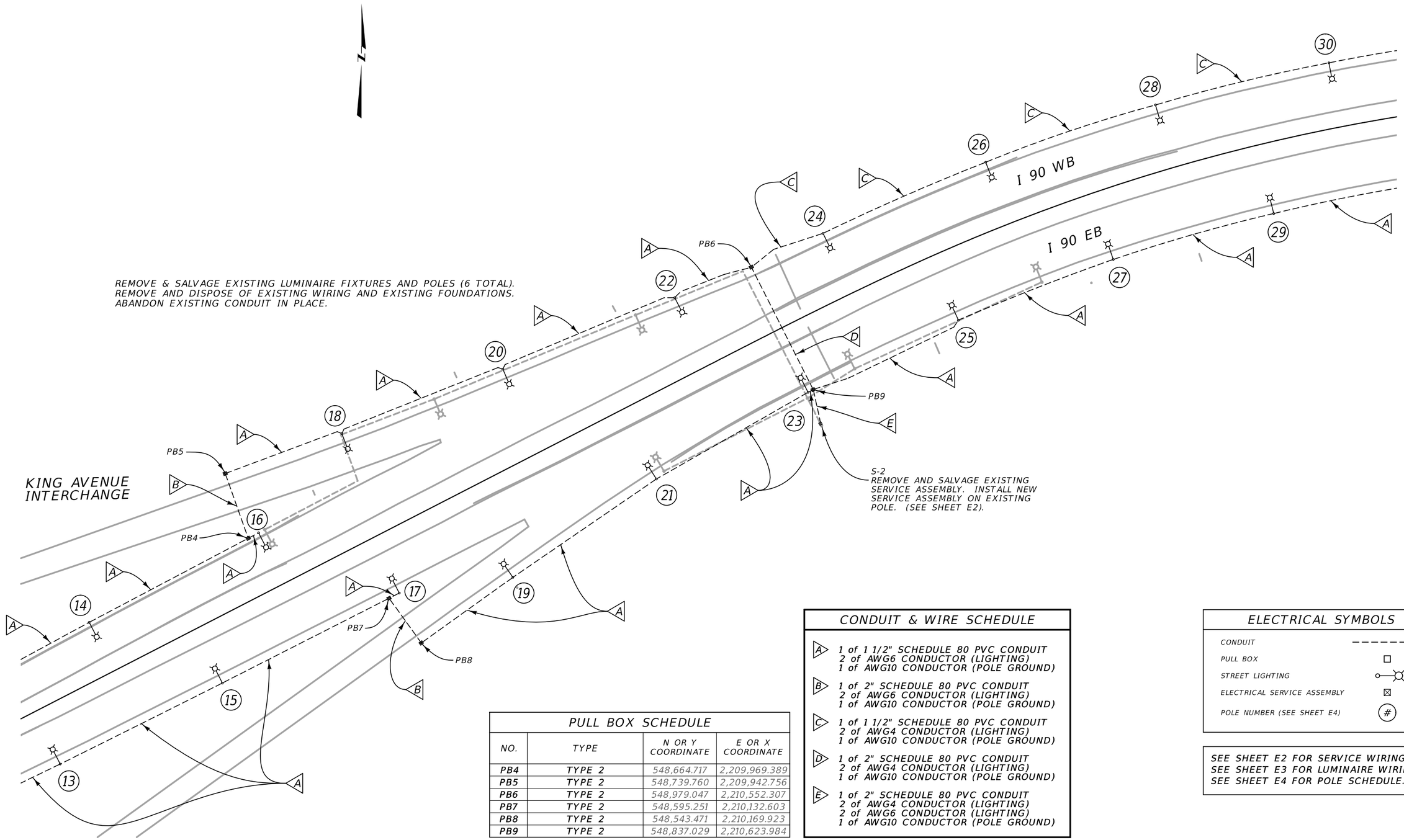
SEE SHEET E3 FOR LUMINAIRE WIRING.
SEE SHEET E4 FOR POLE SCHEDULE.

REF: BR-IM 1010(2) / UPN A050 / W BLGS-KING AVE BRIDGES / 2006
I 90-8(45)443 / W BILLINGS INT / 1967

3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\dgn\9421000ELPLN001.DGN	DESIGNED BY	Dennis E. Schrock	Sept 2020	ELECTRICAL PLANS	SF 169 I90 W KING AVE LIGHTING / HSIP 90-8(190)446
2		1/12/2021	REVIEWED BY				
		5:17:42 AM u7893	CHECKED BY			YELLOWSTONE COUNTY	UPN 9421000 / SHEET E5

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AWARD COPY



REMOVE & SALVAGE EXISTING LUMINAIRE FIXTURES AND POLES (6 TOTAL). REMOVE AND DISPOSE OF EXISTING WIRING AND EXISTING FOUNDATIONS. ABANDON EXISTING CONDUIT IN PLACE.

S-2
REMOVE AND SALVAGE EXISTING SERVICE ASSEMBLY. INSTALL NEW SERVICE ASSEMBLY ON EXISTING POLE. (SEE SHEET E2).

PULL BOX SCHEDULE

NO.	TYPE	N OR Y COORDINATE	E OR X COORDINATE
PB4	TYPE 2	548,664.717	2,209,969.389
PB5	TYPE 2	548,739.760	2,209,942.756
PB6	TYPE 2	548,979.047	2,210,552.307
PB7	TYPE 2	548,595.251	2,210,132.603
PB8	TYPE 2	548,543.471	2,210,169.923
PB9	TYPE 2	548,837.029	2,210,623.984

NOTE: NEW PULL BOX LOCATIONS ARE APPROXIMATE. FINAL LOCATION IS TO BE DETERMINED IN THE FIELD.

CONDUIT & WIRE SCHEDULE

A — 1 of 1 1/2" SCHEDULE 80 PVC CONDUIT
2 of AWG6 CONDUCTOR (LIGHTING)
1 of AWG10 CONDUCTOR (POLE GROUND)

B — 1 of 2" SCHEDULE 80 PVC CONDUIT
2 of AWG6 CONDUCTOR (LIGHTING)
1 of AWG10 CONDUCTOR (POLE GROUND)

C — 1 of 1 1/2" SCHEDULE 80 PVC CONDUIT
2 of AWG4 CONDUCTOR (LIGHTING)
1 of AWG10 CONDUCTOR (POLE GROUND)

D — 1 of 2" SCHEDULE 80 PVC CONDUIT
2 of AWG4 CONDUCTOR (LIGHTING)
1 of AWG10 CONDUCTOR (POLE GROUND)

E — 1 of 2" SCHEDULE 80 PVC CONDUIT
2 of AWG4 CONDUCTOR (LIGHTING)
2 of AWG6 CONDUCTOR (LIGHTING)
1 of AWG10 CONDUCTOR (POLE GROUND)

ELECTRICAL SYMBOLS

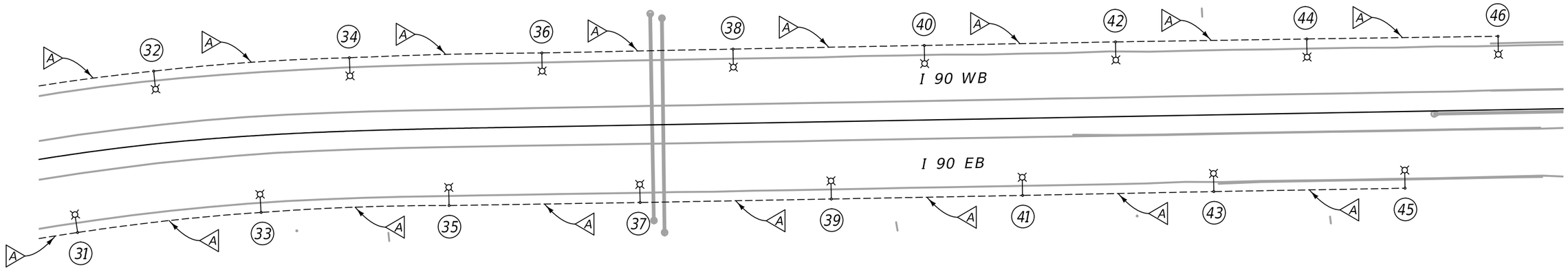
CONDUIT	———
PULL BOX	□
STREET LIGHTING	○—☼
ELECTRICAL SERVICE ASSEMBLY	⊠
POLE NUMBER (SEE SHEET E4)	(#)

SEE SHEET E2 FOR SERVICE WIRING.
SEE SHEET E3 FOR LUMINAIRE WIRING.
SEE SHEET E4 FOR POLE SCHEDULE.

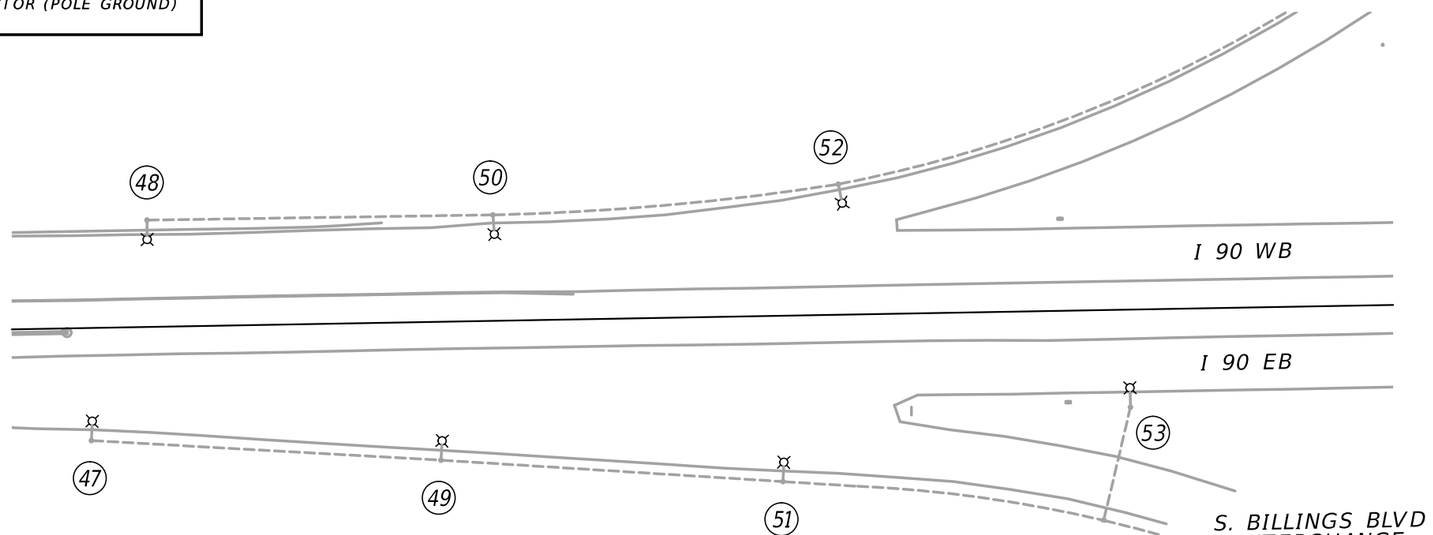
REF: BR-IM 1010(2) / UPN A050 / W BLGS-KING AVE BRIDGES / 2006
I 90-8(45)443 / W BILLINGS INT / 1967

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CONDUIT & WIRE SCHEDULE
A — 1 of 1 1/2" SCHEDULE 80 PVC CONDUIT 2 of AWG6 CONDUCTOR (LIGHTING) 1 of AWG10 CONDUCTOR (POLE GROUND)



USE POLES 47 TO 53 IN PLACE AS IS.
REMOVE & SALVAGE THE EXISTING LUMINAIRE FIXTURES AND INSTALL NEW LED LUMINAIRE FIXTURES.

N

ELECTRICAL SYMBOLS	
CONDUIT	----------
PULL BOX	□
STREET LIGHTING	○—⊕
ELECTRICAL SERVICE ASSEMBLY	⊠
POLE NUMBER (SEE SHEET E4)	(#)

SEE SHEET E3 FOR LUMINAIRE WIRING.
SEE SHEET E4 FOR POLE SCHEDULE.

REF: IR 90-8(121)447 / S BILLINGS BLVD INT / 1991
I 90-8(45)443 / W BILLINGS INT / 1967

2	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\dgn\9421000ELPLN001.DGN	DESIGNED BY	Dennis E. Schrock	Sept 2020	ELECTRICAL PLANS	SF 169 I90 W KING AVE LIGHTING	HSIP 90-8(190)446
1		1/12/2021	REVIEWED BY			YELLOWSTONE COUNTY	UPN 9421000	SHEET E7
		5:18:36 AM u7893	CHECKED BY					