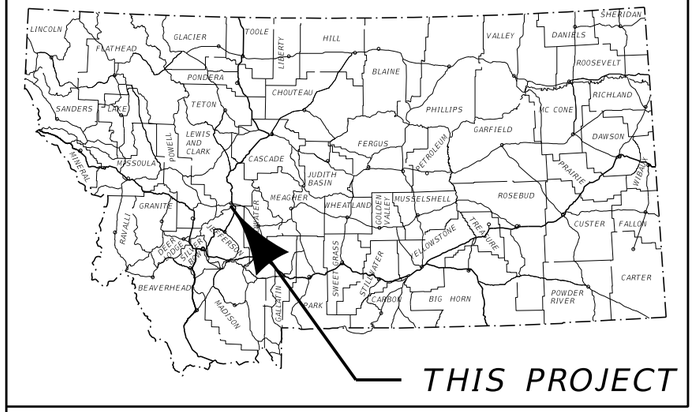
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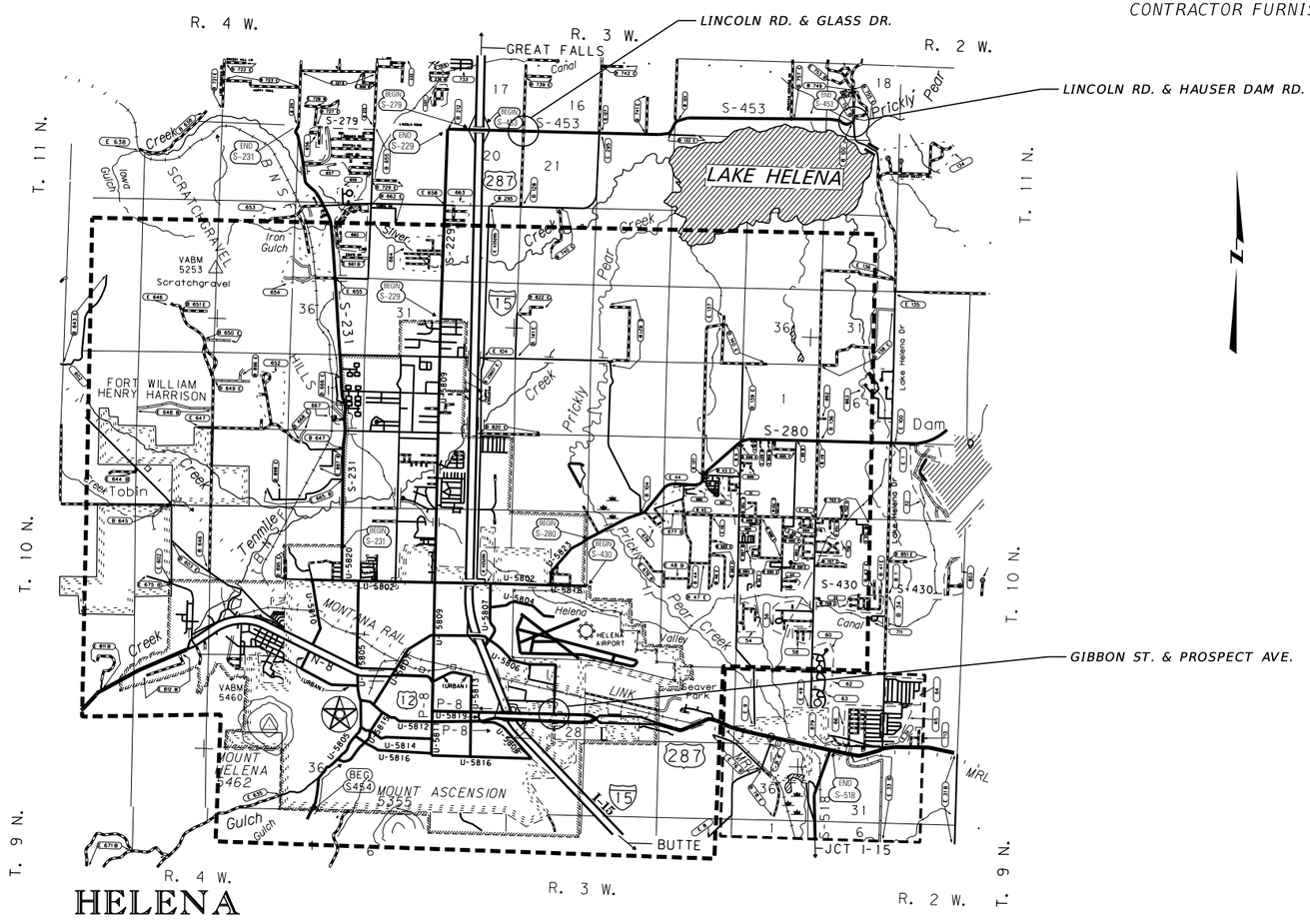


MONTANA DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT HSIP STWD (663)
ROADWAY & ROADSIDE SAFETY IMPROVEMENT
SF 179 HELENA INTX SAFETY
LEWIS AND CLARK COUNTY

LENGTH N/A MILES

SURFACING SOURCES - CONTRACTOR FURNISHED



N-8 (PROSPECT AVE.) RP 45.55 TO 45.7	
PRESENT 2019	A.D.T. = 25,200
LETTING 2020	A.D.T. = 25,450
DESIGN 2025	A.D.T. = 26,750
	D.H.V. = 2680
	TRUCKS = 1.3 %
	18 KIP ESAL'S = 71 DAILY
	GROWTH RATE = 1.0 % ANNUALLY

S-453 (LINCOLN RD.) RP 0.40 TO 0.80	
PRESENT 2019	A.D.T. = 3,260
LETTING 2020	A.D.T. = 3,330
DESIGN	A.D.T. = 3,690
	D.H.V. = 500
	TRUCKS = 2.3 %
	GROWTH RATE = 2.1 % ANNUALLY

S-453 (LINCOLN RD.) RP 5.40 TO 6.00	
PRESENT 2019	A.D.T. = 1,270
LETTING 2020	A.D.T. = 1,300
DESIGN	A.D.T. = 1,400
	D.H.V. = 200
	TRUCKS = 5.9 %
	GROWTH RATE = 2.1 % ANNUALLY

L-25-1549 (GLASS DR.) RP 0.40 TO 0.80	
PRESENT 2019	A.D.T. = 640
LETTING 2020	A.D.T. = 650
DESIGN 2025	A.D.T. = 680
	D.H.V. = 80
	TRUCKS = 0.5 %
	18 KIP ESAL'S = 2 DAILY
	GROWTH RATE = 1.0 % ANNUALLY

L-25-34 (HAUSER DAM RD.) RP 8.40 TO 8.60	
PRESENT 2019	A.D.T. = 780
LETTING 2020	A.D.T. = 800
DESIGN 2025	A.D.T. = 930
	D.H.V. = 110
	TRUCKS = 6.2 %
	18 KIP ESAL'S = 18 DAILY
	GROWTH RATE = 3.0 % ANNUALLY

MONTANA
DEPARTMENT OF TRANSPORTATION

MALCOLM "MACK" LONG
DIRECTOR OF TRANSPORTATION

APPROVED BY:

TRAFFIC AND SAFETY ENGINEER

MONTANA
GABE B. PRIEBE
13957PE
LICENSED PROFESSIONAL ENGINEER

DocuSigned by:
Gabe B. Priebe
4895FFA73587466...

7/25/2023
DATE

ASSOCIATED PROJECT AGREEMENT NUMBERS	
R / W	
I.C.	
P. E.	HSIP-G STWD (662)

3	MONTANA Department of Transportation	C:\DGN\9655000sattl001.dgn	DESIGNED BY	TRISTAN PIERCE	3/20/2023	ROAD PLANS
2		7/19/2023	REVIEWED BY	DARCY O'DELL	3/20/2023	
		7:12:49 AM CPS - U6146	CHECKED BY	JERRY SABOL	3/20/2023	UPN 9655000

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NOTES

CURB RADIUS

ALL CURB RADII CALL OUTS ARE TO THE TOP BACK OF CURB UNLESS OTHERWISE NOTED IN DETAILS

MISC. TO BE MOVED OR REMOVED BY OTHERS

ALL PRIVATELY OWNED SIGNS TO BE REMOVED BY OWNER.

PUBLIC LAND SURVEY MONUMENTS

ALL MONUMENTS TO BE REMOVED AND RELOCATED OR RESET BY STATE FORCES.

UTILITIES

CALL THE UTILITIES UNDERGROUND LOCATION CENTER (811) OR OTHER NOTIFICATION SYSTEM FOR THE MARKING AND LOCATION OF ALL LINES AND SERVICES BEFORE EXCAVATING. ALL CLEARANCES OR DEPTHS PROVIDED FOR UTILITIES ARE FROM EXISTING GROUND LINE.

WETLANDS

WETLANDS MAY EXIST ADJACENT TO THE ROADWAY AND BEYOND THE PROJECT LIMITS. A WETLAND DELINEATION HAS NOT BEEN COMPLETED FOR THIS PROJECT. IMPACTS TO WETLAND AREAS ARE NOT ANTICIPATED IN ASSOCIATION WITH THE PROPOSED WORK. NO PERMITS HAVE BEEN OBTAINED. ANY ACTION IMPACTING WETLAND AREAS WITHOUT THE APPROPRIATE PERMITTING IS THE RESPONSIBILITY OF THE CONTRACTOR.

AS-BUILTS

FOR HORIZONTAL ALIGNMENT AND STATIONING, REFER TO THE FOLLOWING "AS-BUILT" PROJECT(S):

IM 15-4(105)192

LEVEL DATA

BEARING SOURCE

THE BEARING SOURCE IN NAD 83-1992

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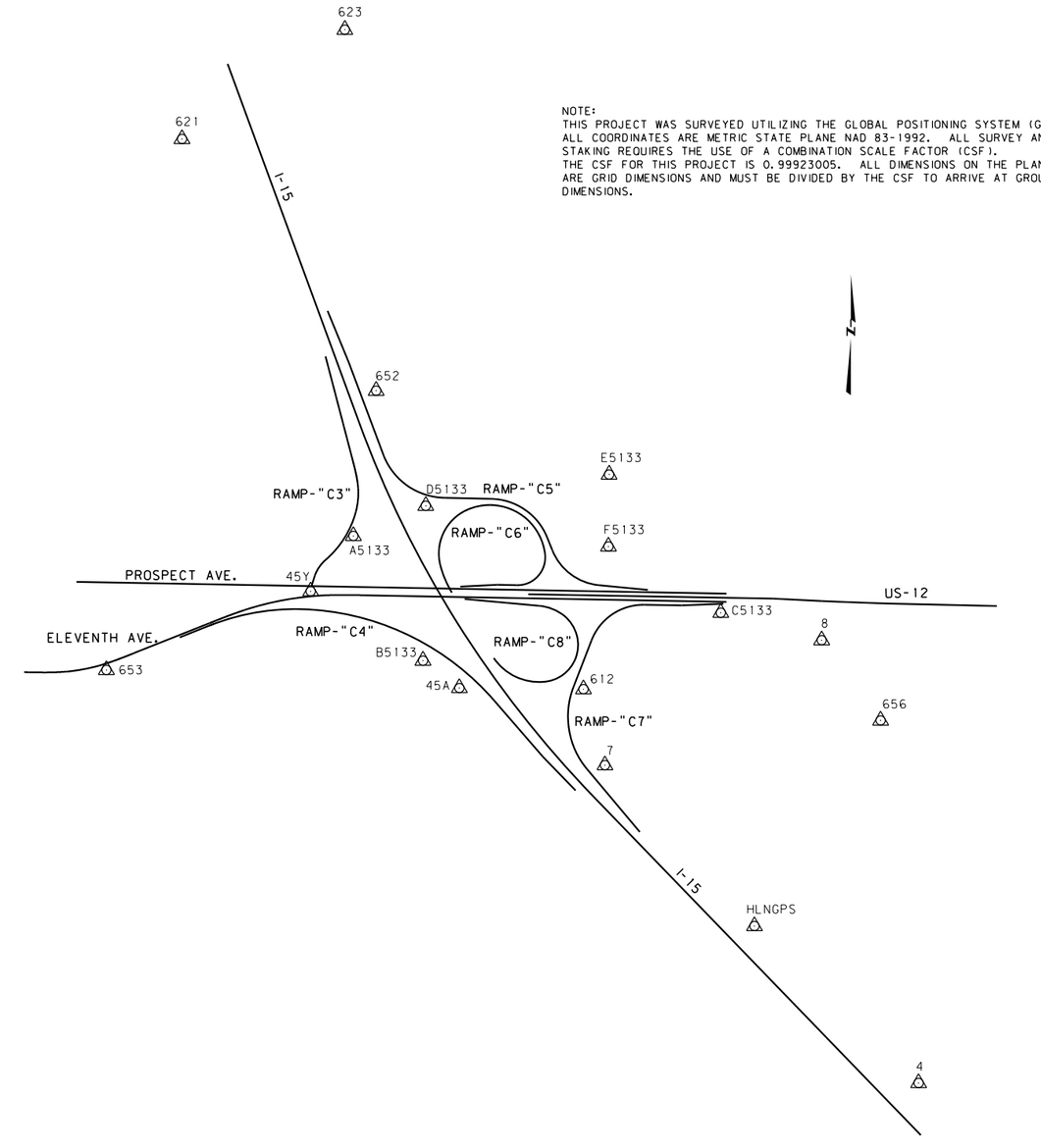
CONTROL ABSTRACT

POINT NAME/NUMBER	N OR Y COORDINATE	E OR X COORDINATE	POINT ELEVATION	LOCATION AND DESCRIPTION
4	860918.432	1343358.291	4040.10	FOUND 2" MDT ALUMINUM CAP STAMPED "4 1991", 500' SOUTHERLY OF THE RADIO SHOP FENCE, 68' EAST OF THE INTERSTATE R\W FENCE, AT THE TOP OF A SLOPE ON THE OLD HIGHWAY, WITNESS POST IS 5' NORTH
45A	863044.156	1340886.158	4041.56	FOUND 2" MDT ALUMINUM CAP STAMPED "45A 2000", AT MP 45.670, 530' RIGHT OF OVERPASS, 15' EAST OF THE WEST R\W FENCE ALONG THE SOUTHBOUND ON RAMP TO I-15, AT TOP OF CUT SLOPE, AND 3' EAST OF WITNESS POST.
45Y	863564.852	1340085.891	4037.68	FOUND 2" MDT ALUMINUM CAP STAMPED "45Y 2000", AT MP 45.462, 23' LEFT OF PTW OF HIGHWAY 12 EASTBOUND, AT THE EAST END OF GRASSY AREA BETWEEN HIGHWAY 12 AND PROSPECT AVENUE, 6' WEST OF THE EAST EDGE OF THE LEFT TURN LANE ONTO HIGHWAY 12 AND I-15, AND 15' EAST OF TRAFFIC LIGHT POLE WITH DECAL.
612	863037.970	1341554.165	4022.27	FOUND 2" MDT ALUMINUM CAP STAMPED "612 1999", IN THE NORTHWEST QUADRANT OF MDT COMPLEX, 550' SOUTHWEST OF THE SOUTHWEST CORNER OF THE MOTOR POOL PARKING LOT, 5' EAST OF THE R\W FENCE, 27' EAST OF A CONCRETE R\W MONUMENT, WITNESS POST IS 5' NORTHWEST ON R\W FENCE.
621	865998.698	1339393.349	3957.64	FOUND 2" MDT ALUMINUM CAP STAMPED "621 1997", ABOUT 350' SOUTHWEST OF THE RAILROAD BRIDGE ON I-15, AT THE NORTHEAST CORNER OF THE YARD OF CHEMICAL MONTANA AT 2000 BOULDER AVENUE, 142' NORTH OF THE CENTERLINE OF BOULDER AVENUE, AND 18' SOUTHEAST OF A NORTHEAST FENCE CORNER WITH DECAL.
623	866587.277	1340269.862	3936.41	FOUND 2" MDT ALUMINUM CAP STAMPED "623 1997", 270' WEST OF THE SOUTHWEST CORNER OF THE ASSOCIATED FOOD STORES BUILDING ON AIRPORT ROAD, 6' EAST OF A CHAIN LINK FENCE, AND 6' EAST OF A WITNESS POST.
652	864644.265	1340438.330	3989.20	FOUND 2" MDT ALUMINUM CAP STAMPED "652 2000", 510' WEST AND 36' SOUTH OF BILLINGS AVENUE (STREET NORTH OF WALMART, EAST OF I-15), 10' EAST OF R\W FENCE, AND INSIDE THE FENCE OF D&D RV's SALES LOT.
653	863141.358	1338986.347	4061.42	FOUND PK NAIL WITH PAINTED TARGET IN CONCRETE JOINT IN TRAFFIC ISLAND SOUTHEAST OF ALBERTSONS AT INTERSECTION OF HIGHWAY 12 AND 11TH AVENUE, 130' FROM THE WEST END OF THE ISLAND, AND 15' FROM THE NORTH SIDE.
656	862869.584	1343153.849	4005.11	FOUND 2" MDT ALUMINUM CAP STAMPED "656 2000", 69' EAST OF 18TH STREET, 720' SOUTH OF ITS INTERSECTION WITH PROSPECT AVENUE, AND ON TOP OF THE BACK SLOPE.
7	862628.803	1341669.956	4036.55	FOUND 2" MDT ALUMINUM CAP STAMPED "7 1991" IN THE MDT COMPLEX WEST OF THE MAIN ENTRANCE ROAD EXTENDED, APPROXIMATELY 200' WEST OF THE PARKING LOT, 200' SOUTHWEST ALONG THE R\W FENCE AND 36' EAST OF THE R\W FENCE, WITNESS POST IS 5' NORTH.
8	863301.076	1342836.487	4005.69	FOUND 2" MDT ALUMINUM CAP STAMPED "8 1991", ALONG ENTRANCE ROAD TO MDT COMPLEX. FROM 18TH STREET GO WEST 321' TO A POWER POLE WITH A TRANSFORMER AND A LINE OF THREE POWER POLES, 40' SOUTHWEST FROM THE CENTER POLE AND NORTHEAST 36' FROM A FIRE HYDRANT, WITNESS POST IS 5' NORTH.
A5133	863862.649	1340315.710	4025.27	SET 2" MDT ALUMINUM CAP STAMPED "A5133 2006", 11' EAST FROM THE EDGE OF PAVEMENT OF THE SOUTHBOUND I-90 EXIT RAMP AT THE CAPITAL INTERCHANGE, 56' NORTH OF THE NORTHWEST POST FOR A SIGN "12 EAST, 287 SOUTH-TOWNSEND, EAST HELENA", AND 3' WEST OF WITNESS POST.
B5133	863191.665	1340690.388	4039.27	SET 2" MDT ALUMINUM CAP STAMPED "B5133 2006", 78' WEST FROM THE EDGE OF PAVEMENT OF THE SOUTHBOUND I-90 ON RAMP AT THE CAPITAL INTERCHANGE, ON TOP OF CUT SLOPE, 15' EAST OF THE R\W FENCE, AND 3' EAST OF WITNESS POST
C5133	863449.266	1342293.280	4005.47	SET 2" MDT ALUMINUM CAP STAMPED "C5133 2006", EAST OF THE CAPITAL INTERCHANGE ALONG HIGHWAY 12, IN FRONT OF THE MOTOR POOL PARKING LOT AT THE MDT COMPLEX, 26' SOUTH OF A 45 MPH SPEED LIMIT SIGN, 34' SOUTH FROM THE EDGE OF PAVEMENT OF HIGHWAY 12, 5' NORTH OF R\W FENCE, AND 3' NORTH OF WITNESS POST
D5133	864024.830	1340705.310	3999.87	SET 2" MDT ALUMINUM CAP STAMPED "D5133 2006", IN GRASS AREA OF THE CAPITAL INTERCHANGE, NORTHWEST OF I-90 NORTHBOUND EXIT RAMP, 99' EAST FROM THE EDGE OF PAVEMENT OF I-90 NORTHBOUND, 36' SOUTH FROM THE EDGE OF PAVEMENT OF I-90 ON RAMP, AND 3' NORTH OF WITNESS POST.
E5133	864193.266	1341692.353	3985.96	SET 2" MDT ALUMINUM CAP STAMPED "E5133 2006", NORTH OF THE MONTANA HIGHWAY PATROL OFFICE IN VACANT LOT, 183' WEST OF A NORTH\SOUTH CHAIN LINK FENCE, 264' NORTH OF A FENCE CORNER AT THE WEST SIDE OF THE NORTH ENTRANCE TO THE MONTANA HIGHWAY PATROL OFFICE, 106' SOUTH OF AN EAST\WEST FENCE, AND 3' SOUTH OF WITNESS POST.
F5133	863805.873	1341688.652	4002.30	SET COTTON SPINDLE WITH WASHER STAMPED "F5133 2006", IN THE MONTANA HIGHWAY PATROL PARKING LOT, WEST OF THE ENTRANCE DOORS OF THE MONTANA HIGHWAY PATROL, 2' WEST OF THE NORTHWESTERLY PLANTER ISLAND, 74' SOUTHEASTERLY FROM THE SOUTHEAST CORNER OF A GARAGE/STORAGE BUILDING
HLNGPS	861762.883	1342474.488	4049.96	AKA HELENA GPS. FOUND NGS A ORDER HARN MARK ON THE HIGHWAY COMPLEX IN HELENA. SEE NGS DESCRIPTION FOR ADDITIONAL INFORMATION.

NOTE:
DATA FROM AS-BUILT IM 15-4(105)192 UPN: 5133

CONTROL DIAGRAM

SCALE: N/A



NOTE:
THIS PROJECT WAS SURVEYED UTILIZING THE GLOBAL POSITIONING SYSTEM (GPS). ALL COORDINATES ARE METRIC STATE PLANE NAD 83-1992. ALL SURVEY AND STAKING REQUIRES THE USE OF A COMBINATION SCALE FACTOR (CSF). THE CSF FOR THIS PROJECT IS 0.99923005. ALL DIMENSIONS ON THE PLANS ARE GRID DIMENSIONS AND MUST BE DIVIDED BY THE CSF TO ARRIVE AT GROUND DIMENSIONS.

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SUMMARY

MEDIAN CONCRETE CURB

LOCATION	linear feet: MEDIAN CONCRETE CURB	sq. yards: DECORATIVE CONCRETE	REMARKS
LOCATION	TYPE A	3"	
AREA 1	53.0	14.4	GIBBON ST. AND PROSPECT AVE.
AREA 3	265.6	69.0	GIBBON ST. AND PROSPECT AVE.
TOTAL	318.6	83.4	

SIDEWALK

STATION	sq. yards: CONCRETE SIDEWALK	sq. yards: DETECTABLE WARNING DEVICES	linear feet: WIDTH	REMARKS
	6"	TYPE 1		
LOCATION	MEDIAN	MEDIAN		
AREA 2	9.7	3.7	8.0	GIBBON ST. AND PROSPECT AVE. MEDIAN REFUGE ISLAND
SUBTOTAL	9.7	3.7	~	
TOTAL	9.7	3.7	~	

PAVEMENT MARKINGS

ITEM	UNIT	FINAL APPLICATION	TOTAL
STRIPING - WHITE PAINT	gallon		0
STRIPING - YELLOW PAINT	gallon		0
WORDS & SYMBOLS - WHITE PAINT	gallon		0
STRIPING - WHITE EPOXY	gallon	12	12
STRIPING - WHITE-HIGH PERFORMANCE TAPE	ln. foot	240	240
STRIPING - YELLOW EPOXY	gallon	8	8
WORDS & SYMBOLS - WHITE EPOXY	gallon	16	16
WORDS & SYMBOLS - HIGH PERFORMANCE TAPE	sq. ft.	109	109
YELLOW CURB EPOXY	gallon	5	5
STRIPE GROOVING	ln. foot	240	240
STRIPE GROOVING	sq. ft.	109	109

SURFACING

STATION	AGGREGATE: tons: #COMMERICAL MIX - 3/8" PG 58V-34	AGGREGATE: cu. yards: #CRUSHED AGG. COARSE	sq. yards: REMOVE BITUMINOUS PAVEMENT	REMARKS
LOCATION				
GIBBON ST. AND PROSPECT AVE.	1.0	1.0	14.4	SEE DETAIL PAGE 6
TOTAL	1.0	1.0	14.4	

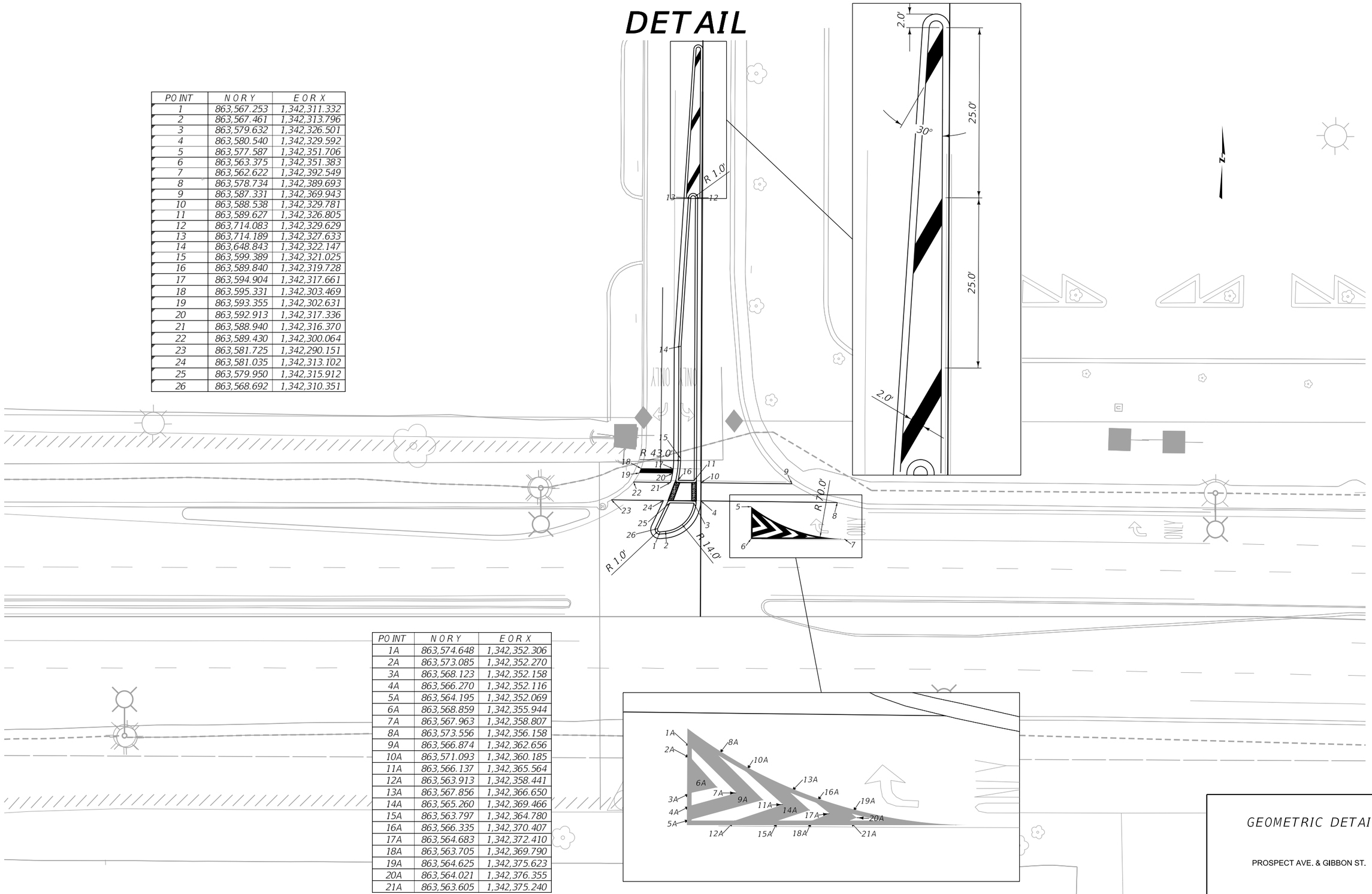
#FOR INFORMATION ONLY - INCLUDE IN THE COST OF SIDEWALK

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DETAIL

POINT	N O R Y	E O R X
1	863,567.253	1,342,311.332
2	863,567.461	1,342,313.796
3	863,579.632	1,342,326.501
4	863,580.540	1,342,329.592
5	863,577.587	1,342,351.706
6	863,563.375	1,342,351.383
7	863,562.622	1,342,392.549
8	863,578.734	1,342,389.693
9	863,587.331	1,342,369.943
10	863,588.538	1,342,329.781
11	863,589.627	1,342,326.805
12	863,714.083	1,342,329.629
13	863,714.189	1,342,327.633
14	863,648.843	1,342,322.147
15	863,599.389	1,342,321.025
16	863,589.840	1,342,319.728
17	863,594.904	1,342,317.661
18	863,595.331	1,342,303.469
19	863,593.355	1,342,302.631
20	863,592.913	1,342,317.336
21	863,588.940	1,342,316.370
22	863,589.430	1,342,300.064
23	863,581.725	1,342,290.151
24	863,581.035	1,342,313.102
25	863,579.950	1,342,315.912
26	863,568.692	1,342,310.351



POINT	N O R Y	E O R X
1A	863,574.648	1,342,352.306
2A	863,573.085	1,342,352.270
3A	863,568.123	1,342,352.158
4A	863,566.270	1,342,352.116
5A	863,564.195	1,342,352.069
6A	863,568.859	1,342,355.944
7A	863,567.963	1,342,358.807
8A	863,573.556	1,342,356.158
9A	863,566.874	1,342,362.656
10A	863,571.093	1,342,360.185
11A	863,566.137	1,342,365.564
12A	863,563.913	1,342,358.441
13A	863,567.856	1,342,366.650
14A	863,565.260	1,342,369.466
15A	863,563.797	1,342,364.780
16A	863,566.335	1,342,370.407
17A	863,564.683	1,342,372.410
18A	863,563.705	1,342,369.790
19A	863,564.625	1,342,375.623
20A	863,564.021	1,342,376.355
21A	863,563.605	1,342,375.240

GEOMETRIC DETAIL

PROSPECT AVE. & GIBBON ST.

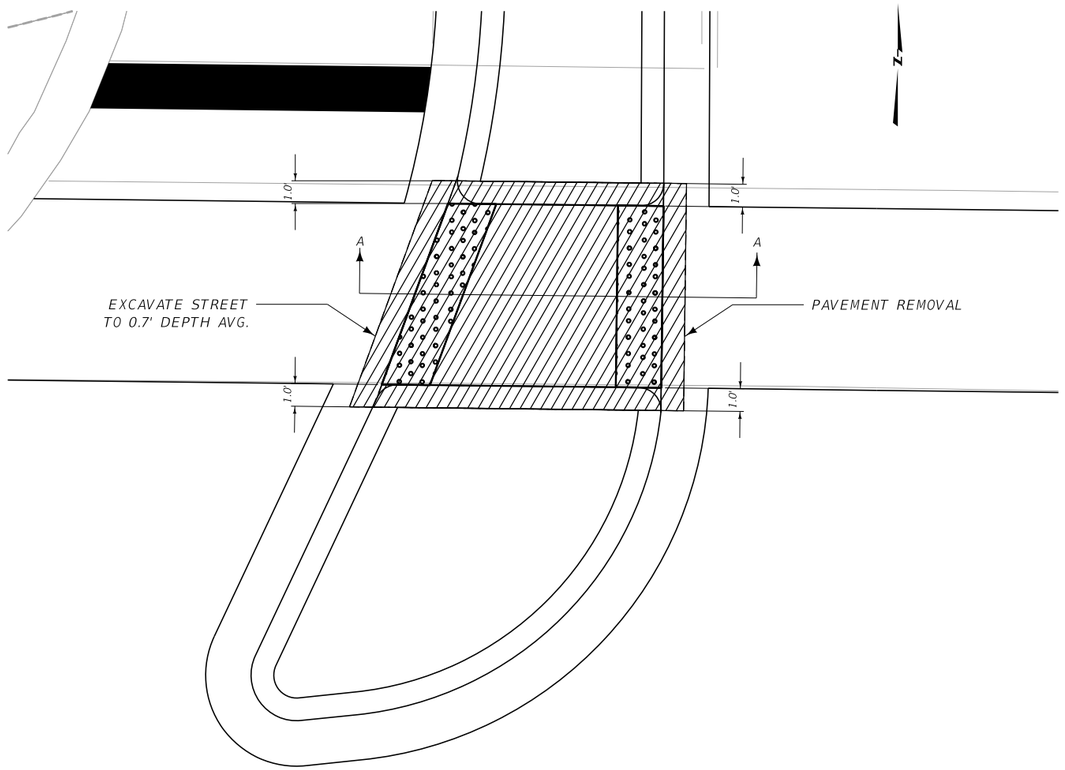
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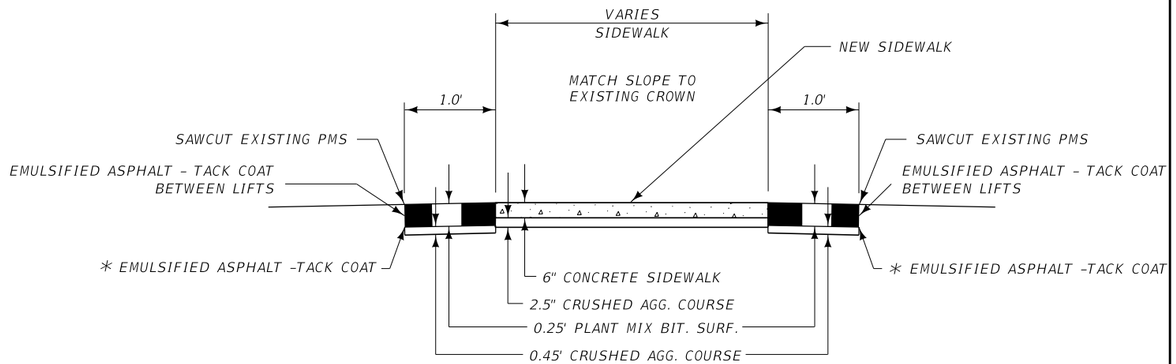
3	MONTANA Department of Transportation	C:\DGN\9655000sadet001.dgn	DESIGNED BY	TRISTAN PIERCE	3/20/2023	ROAD PLANS	SF 179 HELENA INTX SAFETY / HSIP STWD (663)
2		7/19/2023	REVIEWED BY	DARCY O'DELL	3/20/2023		
		7:13:22 AM CPS - U6146	CHECKED BY	JERRY SABOL	3/20/2023	LEWIS AND CLARK COUNTY	UPN 9655000 / 5

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DETAIL

NEW SIDEWALK, AND SURFACING REPAIR DETAIL





SECTION A-A

MAXIMUM CONSTRUCTION LIMITS FOR PLACEMENT OF FORMS FOR NEW CURB AND GUTTER.

* NOTE: INCLUDE IN THE COST OF SIDEWALK

ASPHALT REMOVAL DETAIL

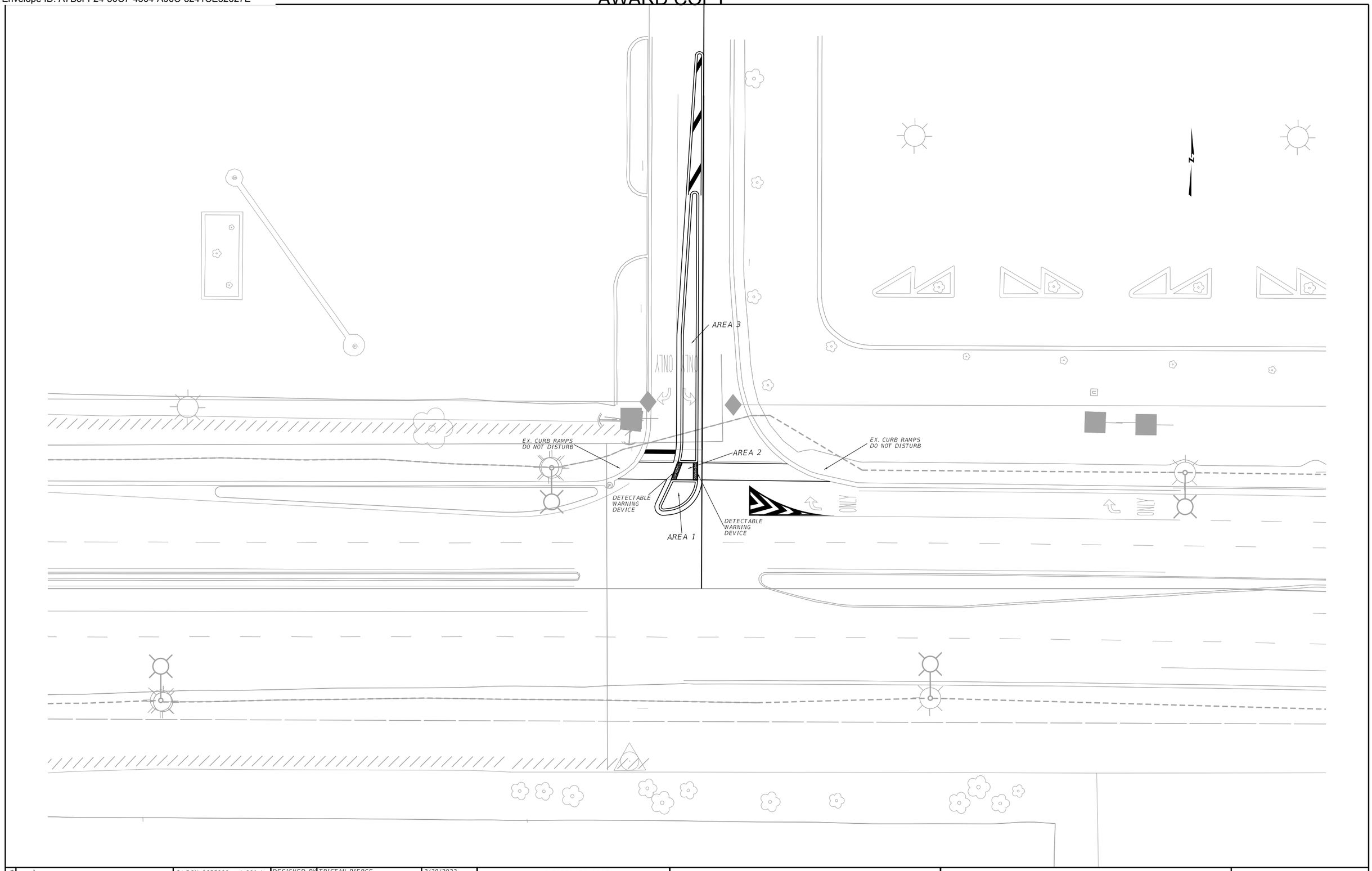
PROSPECT AVE. & GIBBON ST.

NOT TO SCALE

3 / 1	MONTANA Department of Transportation	C:\DGN\9655000sadet001.dgn	DESIGNED BY	TRISTAN PIERCE	3/20/2023	ROAD PLANS	SF 179 HELENA INTX SAFETY / HSIP STWD (663)
		7/19/2023	REVIEWED BY	DARCY O'DELL	3/20/2023		
		7:13:25 AM CPS - U6146	CHECKED BY	JERRY SABOL	3/20/2023	LEWIS AND CLARK COUNTY	UPN 9655000 / 6

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2		7/19/2023	REVIEWED BY	DARCY O'DELL	3/20/2023		
		7:13:34 AM CPS - U6146	CHECKED BY	JERRY SABOL	3/20/2023	LEWIS AND CLARK COUNTY	UPN 9655000 / 7

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SUMMARY
SIGNING & DELINEATION QUANTITIES

MATERIAL	Site #1 Prospect Ave. & Gibon St.	SITE #2 Lincoln Ave. & Glass Dr.	SITE #3 Lincoln Ave. & Lake Helena Dr.	TOTAL	UNIT
SIGNS-ALUM REFL SHEET IV					SQ. FOOT
SIGNS-ALUM REFL SHEET XI	76.8	84.8	27.3	188.9	SQ. FOOT
SIGNS-ALUM SHEET INCR IV					SQ. FOOT
SIGNS-ALUM SHEET INCR XI			31.0	31.0	SQ. FOOT
OVERLAY-SHEET ALUMINUM					SQ. FOOT
POSTS-STEEL U SIGN					POUNDS
POLES-TREATED WOOD 4 IN					LINEAR FT.
POLES-TREATED WOOD 5 IN		92	46	138	LINEAR FT.
POLES-TREATED TIMBER-CLASS 4					LINEAR FT.
POLES-TREATED TIMBER-CLASS 3					LINEAR FT.
POSTS-TUBULAR STEEL					POUNDS
POSTS-TUBULAR STEEL-SQ-PERF	248.7			248.7	POUNDS
POSTS-STEEL STRUCTURAL SIGN					POUNDS
OVERHEAD STR/METAL-CANTILEVER					EACH
OVERHEAD STR/METAL-BRIDGE					EACH
HIGHWAY TRAFFIC STRIPING-WHITE					GAL.(S)
HIGHWAY TRAFFIC STRIPING-YELLOW					GAL.(S)
WORDS & SYMBOLS					GAL.(S)
DELINEATOR SURFACE MOUNT YELLOW	1			1	EACH
DELINEATOR DES A					EACH
DELINEATOR DES B					EACH
DELINEATOR DES C					EACH
DELINEATOR DES D					EACH
DELINEATOR DES E					EACH
DELINEATOR DES F					EACH
DELINEATOR DES G					EACH
DELINEATOR DES H					EACH
REMOVE SIGNS	1	2	2	5	EACH
REMOVE SIGNS-GUIDE			1	1	EACH
RESET SIGNS					EACH
RESET SIGNS-GUIDE					EACH
FRANG SIGN POST BKWY-					EACH
FRANG SIGN POST BKWY-					EACH
SQ TUBLR SLIP BASE BKWY-3 IN					EACH
SQ TUBLR SLIP BASE BKWY-3 IN	5			5	EACH

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SIGN LOCATION AND SPECIFICATIONS

REF. POST	RAMP NO.	SIGN NO.	PANEL SIZE	REFL SHTG TYPE: BACK-GROUND	REFL SHTG TYPE: LEGEND	FEET: CLEARANCE	FEET: SIGN SUPPORT SPACING	TYPE OF SUPPORT	FEET: CANTILEVER	FEET: SUPPORT LENGTH (ESTIMATED)	FEET: SUPPORT LENGTH (INSTALLED)	FEET: MOUNTING HEIGHT	FEET: FOUNDATION DEPTH	SIGN PANEL (SQ. FT.): SHEET ALUMINUM	SIGN PANEL (SQ. FT.): ALUMINUM SHEET INCREMENT	SIGN PANEL (SQ. FT.): ALUMINUM SHEET OVERLAY	TIMBER POLE (LINEAR FT.): 4" TOP DIA.	TIMBER POLE (LINEAR FT.): 5" TOP DIA.	STEEL POST(LBS.): ROUND TUBULAR	STEEL POST(LBS.): SQUARE TUBULAR	STEEL POST(LBS.): STRUCTURAL STEEL	STEEL POST(LBS.): "U" POST	BREAKAWAY	SIGNS/GUIDE REMOVE	SIGNS/GUIDE RESET	REMOVE	RESET	REMARKS
SITE #1 C000008E from R.P. 45.55 to R.P. 45.75																												
		GIBBON ST.																										
3+35 Lt.		W3-1a	36"x36"	XI	XI	10-0		2-1/4"&2-1/2" Sq. Tube		11-8		7-7	3-0	9.0 (XI)					55.3			★						275 FT
		W12-3b	24"x18"	XI		▮		▮		▮		▮	▮	3.0 (XI)														
2+15 Lt.		W11-2	36"x36"	XI		10-0		2-1/4"&2-1/2" Sq. Tube		11-8		7-7	3-0	9.0 (XI)					55.3			★						150 FT
		W12-3b	24"x18"	XI		▮		▮		▮		▮	▮	3.0 (XI)														
1+83 Median		R4-7	30"x36"	XI		10-0		2" Sq. Tube		9-6		7-0	3-0	7.5 (XI)					41.4			▲						
		PROSPECT AVE.																										
45.670 Median		W11-2	36"x36"	XI		10-0		2-1/4"&2-1/2" Sq. Tube		11-8		7-7	3-0	9.0 (XI)					55.3			★						
		W16-6pL	24"x18"	XI		▮		▮		▮		▮	▮	3.0 (XI)														
45.680 Lt.		D3 (2)	36"x10"	XI	XI	R.S.F.O.						7-0		2.5 (XI) 2.5 (XI)									1			BBR	Mount Back to Back	GIBBON ST.
		R1-1	48"x48"	XI		R.S.F.O.						▮		13.3 (XI)												BBR		
45.690 Median		R3-5a	30"x36"	XI		2-0		2" Sq. Tube		9-6		7-0	3-0	7.5 (XI)					41.4			▲					Mount Back to Back	
		R4-7	30"x36"	XI		▮		▮		▮		▮	▮	7.5 (XI)														
		TOTAL Site #1												76.8 (XI)					248.7				1					
SITE #2 C000453E from R.P. 0.4 to R.P. 0.75																												
		GLASS DR.																										
0.573 Rt.		W3-1a	36"x36"	XI		10-0		5" Dia. Pole		15-2		5-7	3-6	9.0 (XI)				16				X						325' Advance Placement from Intersetion
		W4-4p	24"x12"	XI		▮		▮		▮		▮	▮	2.0 (XI)														
0.573 Rt.		D3 (2)	42"x10"	XI	XI	6-0		5" Dia. Pole		13-8		5-0	3-6	2.9 (XI) 2.9 (XI)				14				X	1			BBR	Mount Back to Back	E. LINCOLN RD.
		R1-1	48"x48"	XI	XI	▮		▮		▮		▮	▮	13.3 (XI)												BBR		
		W4-4p	24"x12"	XI		▮		▮		▮		▮	▮	2.0 (XI)												BBR		
0.588 Lt.		D3 (2)	42"x10"	XI	XI	6-0		5" Dia. Pole		13-8		5-0	3-6	2.9 (XI) 2.9 (XI)				14				X	1			BBR	Mount Back to Back	E. LINCOLN RD.
		R1-1	48"x48"	XI	XI	▮		▮		▮		▮	▮	13.3 (XI)												BBR		
		W4-4p	24"x12"	XI		▮		▮		▮		▮	▮	2.0 (XI)												BBR		
0.588 Lt.		W3-1a	36"x36"	XI		10-0		5" Dia. Pole		15-2		5-7	3-6	9.0 (XI)				16				X						325' Advance Placement from Intersetion
		W4-4p	24"x12"	XI		▮		▮		▮		▮	▮	2.0 (XI)														

SIGNING LOCATIONS ARE APPROXIMATE.

FIELD PROJECT MANAGER TO FIELD ADJUST AS NECESSARY

RSFO = REPLACE SIGN FACE ONLY

BBR = BACKBRACING REQUIRED:
- FOR WOOD POST 2" x 4" REQ'D.
- FOR STRUCTURAL STEEL 2" x 2" x 1/4" ANGLE IRON REQ'D.

▲ = SINGLE SQUARE TUBE REQUIRED. MOUNTED IN HEAVY DUTY STUB.

★ = TELESCOPED SQUARE TUBES (2¼" & 2½") WITH SLIP BASE BREAKAWAY REQUIRED. MOUNTED IN HEAVY DUTY STUB.

X = STANDARD BREAKAWAY DEVICE:
- FOR WOOD POST SEE DETAILED DRAWING 619-20.
- FOR STRUCTURAL STEEL SEE DETAILED DRAWING 619-13.

DELINEATION TABLE		
⊣	DESIGN "A"	
⊣⊢	DESIGN "D"	
▲	Yellow FLEX SURF MTD	1

SQUARE TUBE SUPPORT		
TUBE SIZE	WEIGHT	WALL THICKNESS
2"	2.42 lbs/ft	0.105" (12 GAUGE)
2¼"	2.77 lbs/ft	0.105" (12 GAUGE)
2½"	3.14 lbs/ft	0.105" (12 GAUGE)
SQUARE TUBE ANCHOR		
TUBE SIZE	WEIGHT	WALL THICKNESS
2½"	18.36 lbs ea.	0.135"
3"	22.98 lbs ea.	0.188"

For estimating purposes only.

3	MONTANA Department of Transportation	C:\DGN\9655000sisum001.dgn	DESIGNER	Roger Schroeder	4/2022	SIGNING PLANS	SF 179 HELENA INTX SAFTY / HIIP-G STWD (663)
2		7/18/2023	CHECKER	Eric Matye	5/2022		
1		3:41:10 PM CPS - U4044	REVIEWED	Nick Tholt	5/2022	LEWIS & CLARK COUNTY	UPN #9655000 / S2

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SIGN LOCATION AND SPECIFICATIONS

REF. POST	RAMP NO.	SIGN NO.	PANEL SIZE	REFL SHTG TYPE: BACK-GROUND	REFL SHTG TYPE: LEGEND	FEET: CLEARANCE	FEET: SIGN SUPPORT SPACING	TYPE OF SUPPORT	FEET: CANTILEVER	FEET: SUPPORT LENGTH (ESTIMATED)	FEET: SUPPORT LENGTH (INSTALLED)	FEET: MOUNTING HEIGHT	FEET: FOUNDATION DEPTH	SIGN PANEL (SQ. FT.): SHEET ALUMINUM	SIGN PANEL (SQ. FT.): ALUMINUM SHEET INCREMENT	SIGN PANEL (SQ. FT.): ALUMINUM SHEET OVERLAY	TIMBER POLE (LINEAR FT.): 4" TOP DIA.	TIMBER POLE (LINEAR FT.): 5" TOP DIA.	STEEL POST(LBS.): ROUND TUBULAR	STEEL POST(LBS.): SQUARE TUBULAR	STEEL POST(LBS.): STRUCTURAL STEEL	STEEL POST(LBS.): "U" POST	BREAKAWAY	SIGNS/GUIDE: REMOVE	SIGNS/GUIDE: RESET	SIGNS/GUIDE: REMOVE	SIGNS/GUIDE: RESET	REMARKS
SITE #2 (continued)																													
		E. LINCOLN AVE.																											
0.581 Rt.		W2-1	36"x36"	XI		10-0		5" Dia. Pole	15-2			5-7	3-6	9.0 (XI)			16					X				FY		325' Advance Placement from Intersection
		W16-8	24"x8"	XI										1.3 (XI)												FY		GLASS DR.
0.649 Lt.		W2-1	36"x36"	XI		10-0		5" Dia. Pole	15-2			5-7	3-6	9.0 (XI)			16					X				FY		325' Advance Placement from Intersection
		W16-8	24"x8"	XI										1.3 (XI)												FY		GLASS DR.
								TOTAL Site #2						84.8 (XI)			92						2					
SITE #3 C000453E from R.P. 4.85 to R.P. 5.123																													
4.957		W3-1a	36"x36"	XI	XI	R.S.F.O.						5-0		9.0 (XI)									1					
		W4-4p	24"x18"	XI		R.S.F.O.						5-0		3.0 (XI)														
5.066		R1-1	48"x48"	XI	XI	6-0		5" Dia. Pole	13-8			5-0		13.3 (XI)			14					X	1			BBR		STOP
		W4-4p	24"x12"	XI										2.0 (XI)														
5.085		W1-7a	6'-0"x3'-6"	XI		10-0		5" Dia. Pole	x=14-6 y=14-6			5-7	3-6		21.0 (XI)		16 16					X			1	FY		HAUSER DAM RD. LAKE HELENA DR.
		N6-2	5'-0"x2'-0"	XI	XI										10.0 (XI)													
								TOTAL Site #3						27.3 (XI)	31.0 (XI)		46						2		1			
								TOTAL 3 Sites						188.9 (XI)	31.0 (XI)		138			248.7			5		1			

SIGNING LOCATIONS ARE APPROXIMATE.

FIELD PROJECT MANAGER TO FIELD ADJUST AS NECESSARY

RSFO = REPLACE SIGN FACE ONLY

BBR = BACKBRACING REQUIRED:
- FOR WOOD POST 2" x 4" REQ'D.
- FOR STRUCTURAL STEEL 2" x 2" x 1/4" ANGLE IRON REQ'D.

X = STANDARD BREAKAWAY DEVICE:
- FOR WOOD POST SEE DETAILED DRAWING 619-20.
- FOR STRUCTURAL STEEL SEE DETAILED DRAWING 619-13.

FY = TYPE XI FLUORESCENT YELLOW SHEETING REQUIRED.

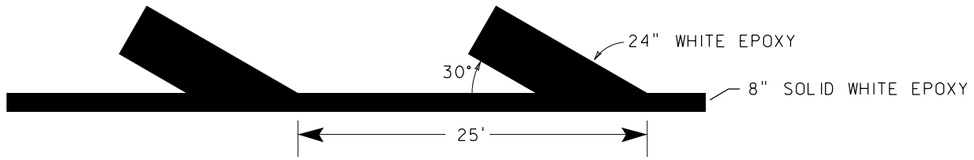
3	MONTANA Department of Transportation	C:\DGN\9655000sisum001.dgn	DESIGNER	Roger Schroeder	4/2022	SIGNING PLANS	SF 179 HELENA INTX SAFTY	HIIP-G STWD (663)
2		7/18/2023	CHECKER	Eric Matye	5/2022			
1		3:41:14 PM CPS - U4044	REVIEWED	Nick Tholt	5/2022	LEWIS & CLARK COUNTY	UPN #9655000	S3

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AWARD COPY

SIGNING DETAILS

MEDIAN DETAIL "A"



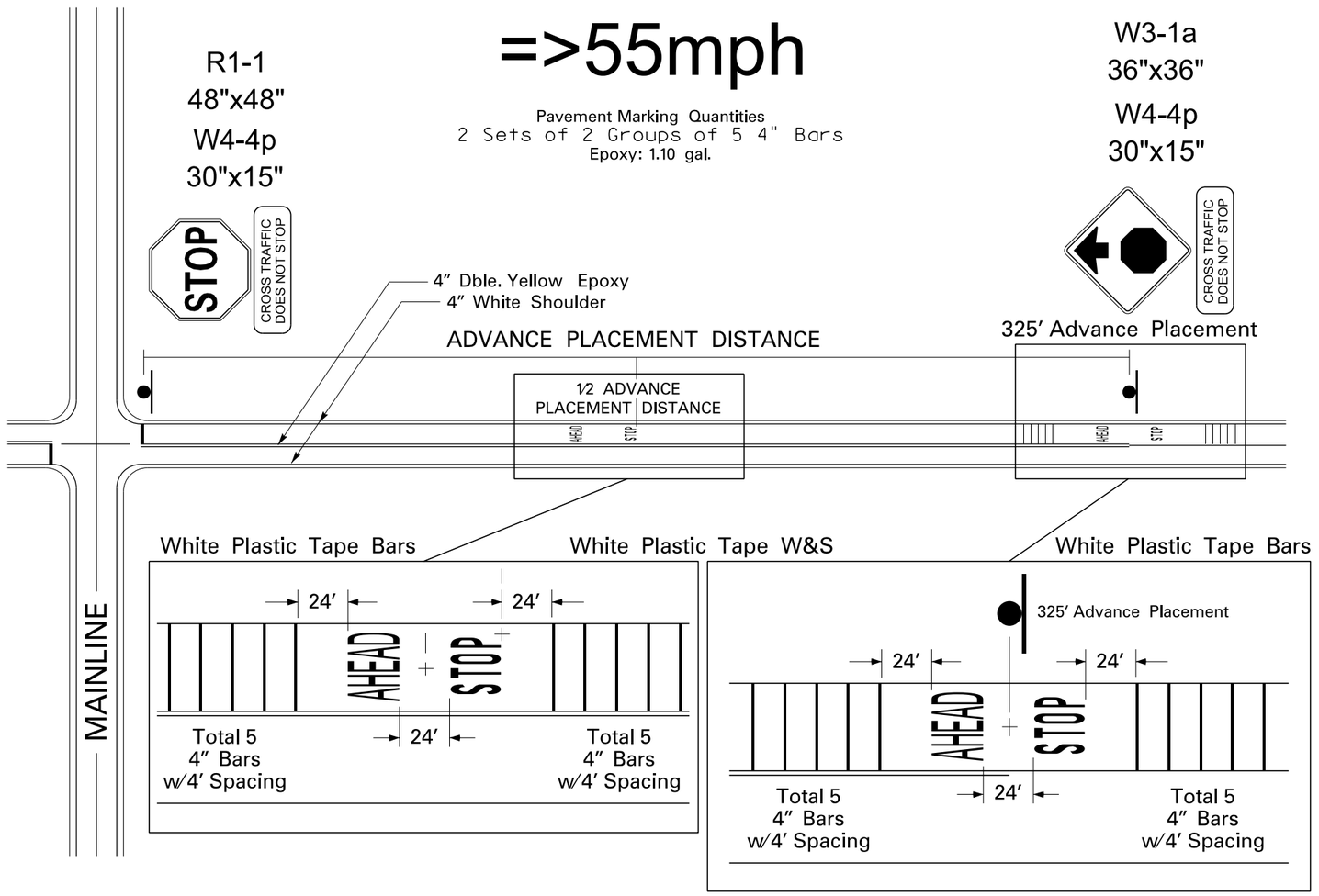
STOP AHEAD PAVEMENT DETAIL

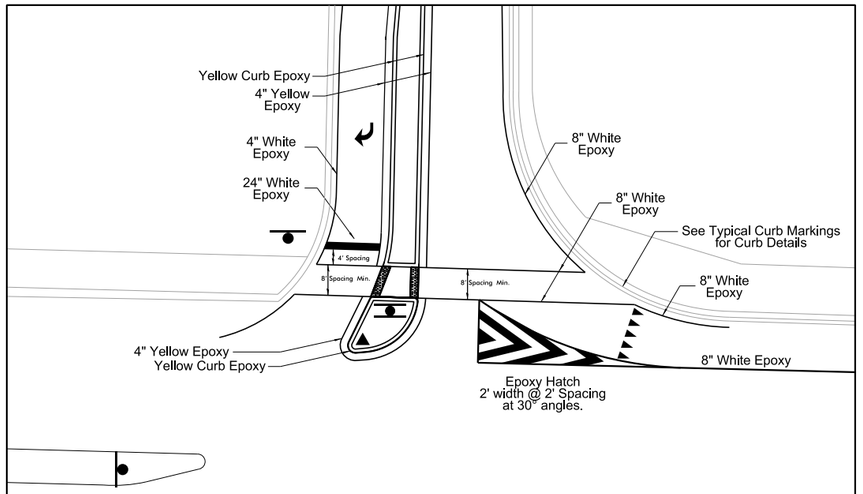
R1-1
48"x48"
W4-4p
30"x15"

=>55mph

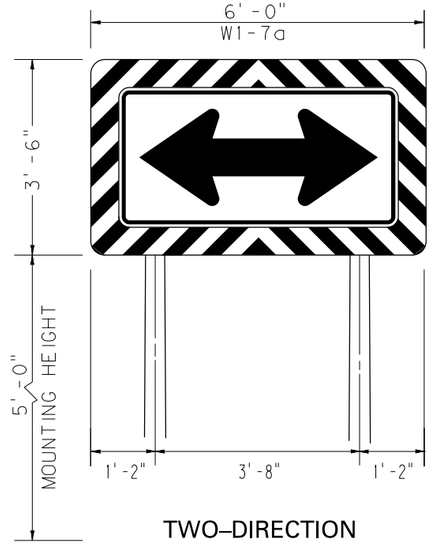
Pavement Marking Quantities
2 Sets of 2 Groups of 5 4" Bars
Epoxy: 1.10 gal.

W3-1a
36"x36"
W4-4p
30"x15"

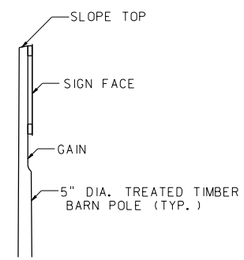




TYPICAL PAVEMENT MARKINGS ON INTERSECTION TYPES



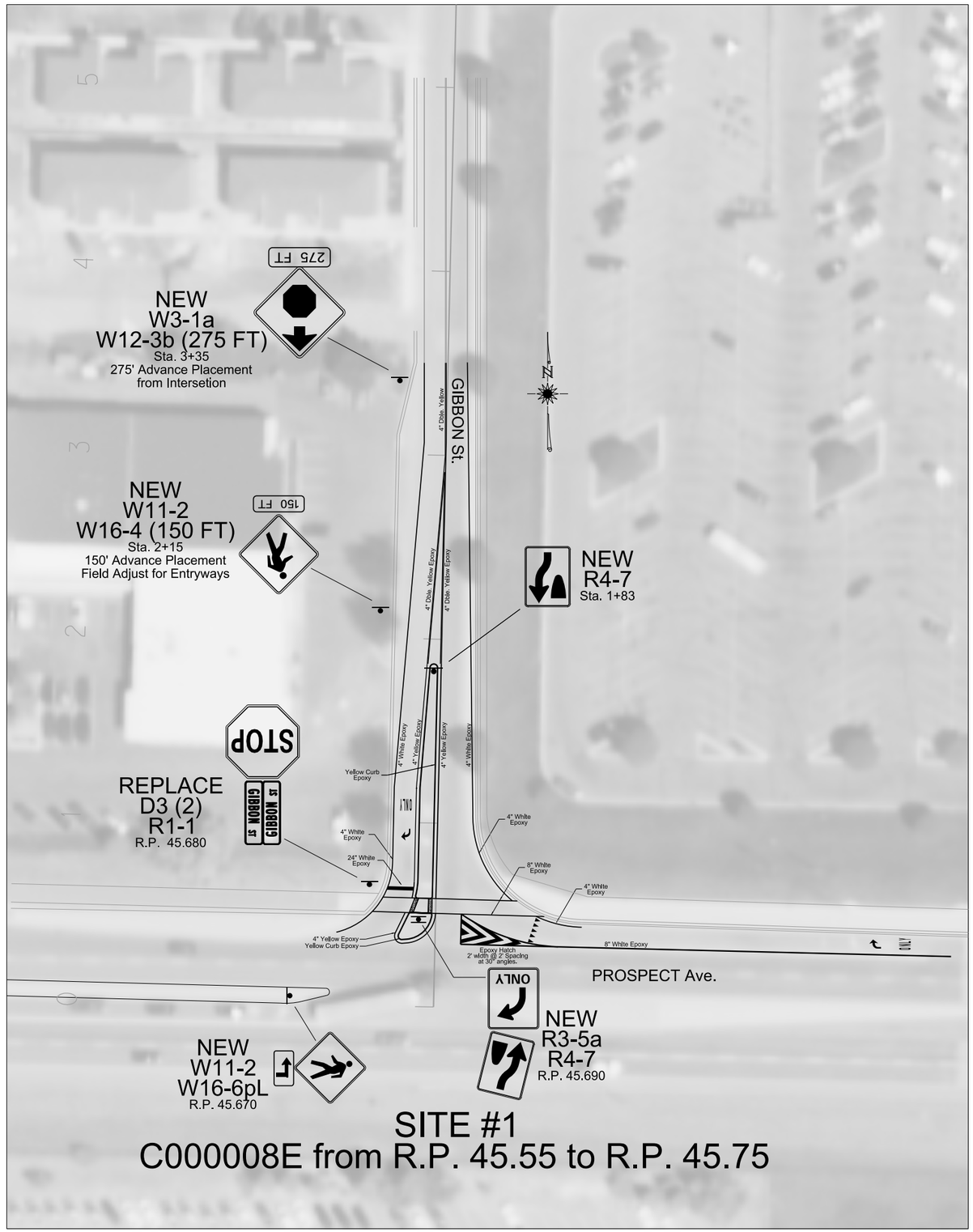
TWO–DIRECTION
LARGE ARROW

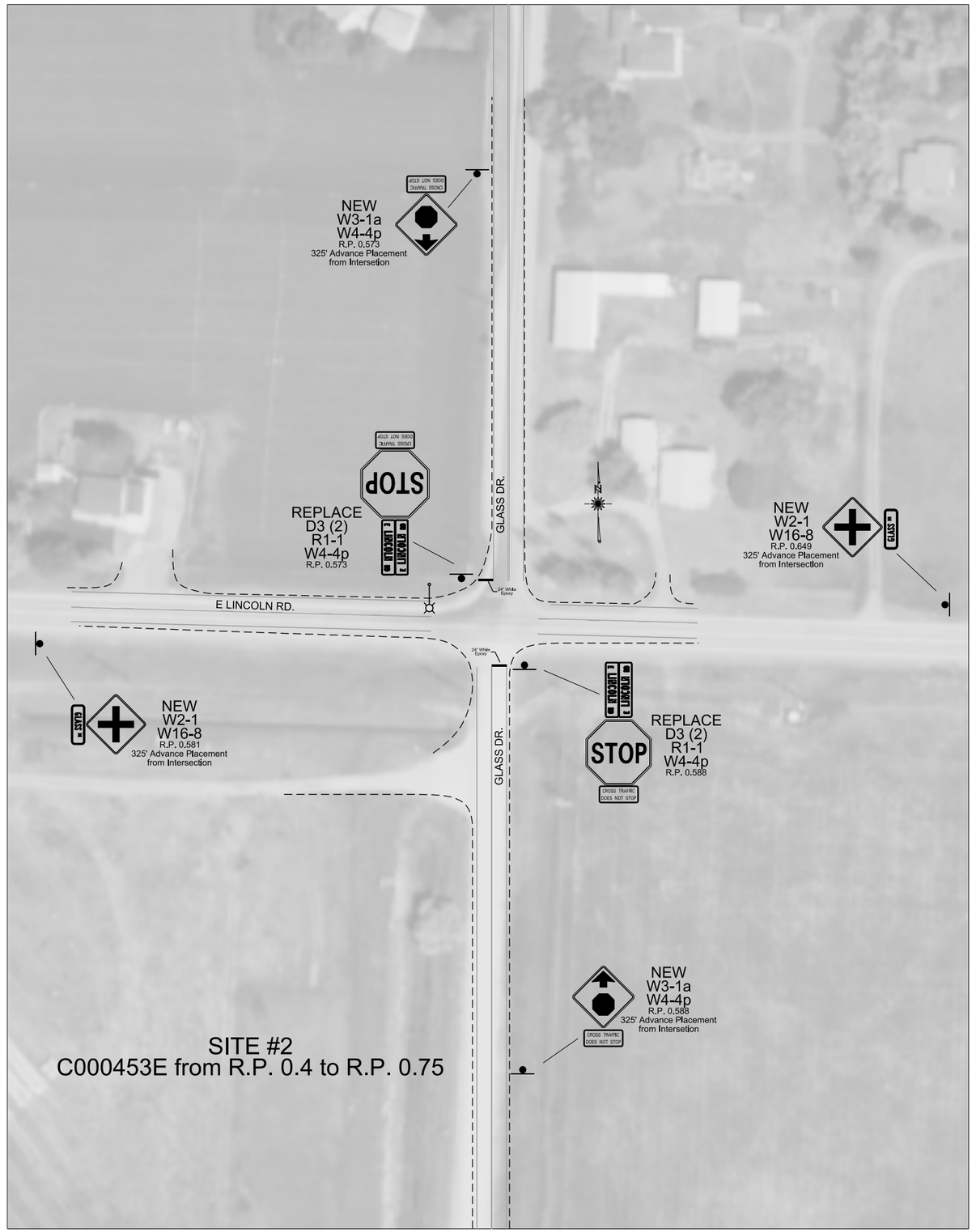


NOTE: MOUNT 60"x30" W1-7 TWO-DIRECTION ARROW DESIGN ON 72"X42" ALUMINUM INCREMENT WITH 6" WIDE DIAGONAL BORDER AROUND THE PERIMETER. DIAGONAL STRIPES ARE 3" IN WIDTH APPLIED AT A 45 DEGREE ANGLE.

NOTE: DETERMINE POLE LENGTHS IN THE FIELD TO COMPLY WITH MOUNTING HEIGHTS AND EMBEDMENT DEPTHS.

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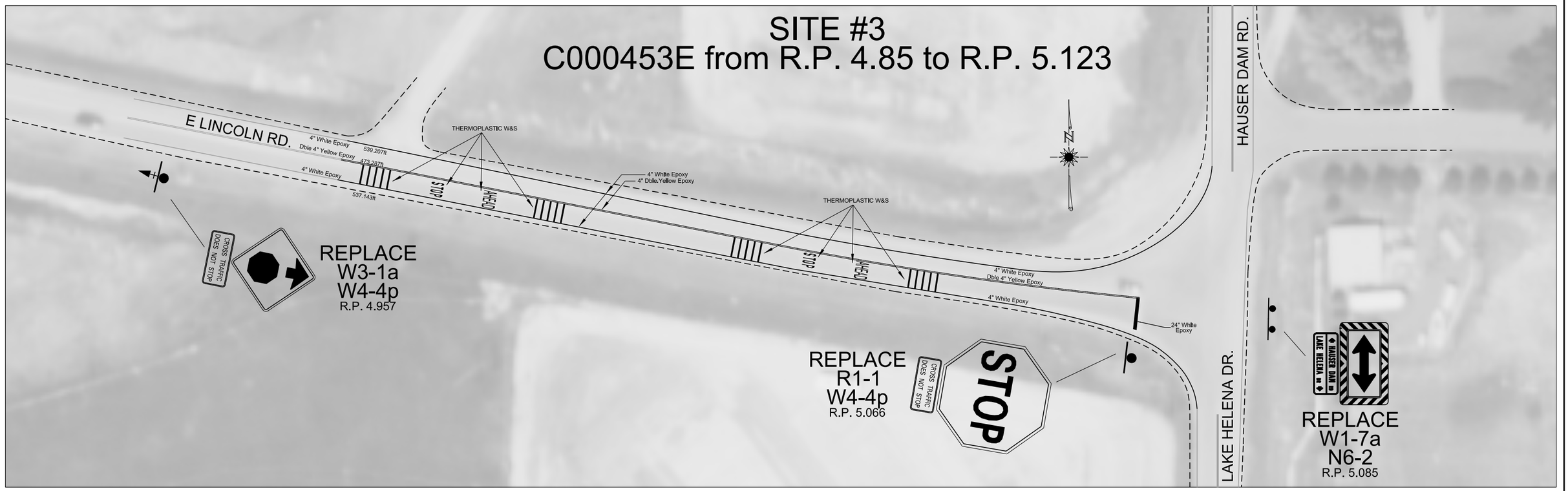


3	MONTANA Department of Transportation	C:\DGN\9655000sipln001.dgn	DESIGNER	Roger Schroeder	4/2022	SIGNING PLANS	SF 179 HELENA INTX SAFTY / HSIP-G STWD (663)
2		7/18/2023	CHECKER	Eric Matye	5/2022		
1		3:41:39 PM CPS - U404	REVIEWED	Nick Tholt	5/2022	LEWIS & CLARK COUNTY	UPN #9655000 / S5

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AWARD COPY

SITE #3
C000453E from R.P. 4.85 to R.P. 5.123



3	MONTANA Department of Transportation	C:\DGN\9655000sipln001.dgn	DESIGNER	Roger Schroeder	4/2022	SIGNING PLANS	SF 179 HELENA INTX SAFTY	HSIP-G STWD (663)
2		7/18/2023	CHECKER	Eric Matye	5/2022			
1		3:43:40 PM CPS - U044	REVIEWED	Nick Tholt	5/2022	LEWIS & CLARK COUNTY	UPN #9655000	S6

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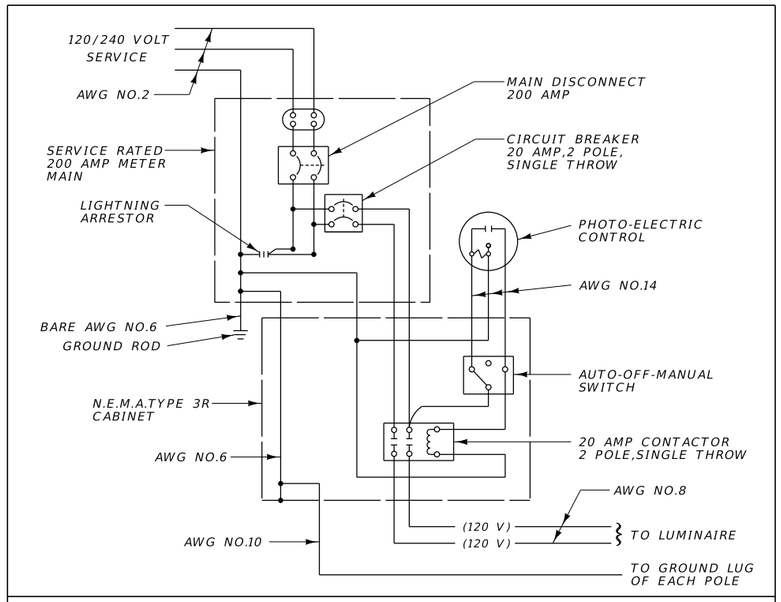
ELECTRICAL QUANTITY SUMMARY

ITEM NO.	MATERIAL	TOTAL	UNIT
616 343 920	CONDUIT-PLASTIC 2 IN	750	LNFT
616 783 006	PULL BOX-COMPOSITE TYPE 1	4	EACH
616 783 007	PULL BOX-COMPOSITE TYPE 2	1	EACH
617 000 000	FOUNDATION-CONCRETE	1.2	CUYD
617 033 214	CABLE-COPPER 3AWG14-600V	700	LNFT
617 123 108	CONDUCTOR-COPPER AWG8-600V	1500	LNFT
617 123 110	CONDUCTOR-COPPER AWG10-600V	950	LNFT
617 183 056	STANDARD-STL TYPE 10-A-500-6	2	EACH
617 303 300	HIGH EFFICACY LUMINAIRE LED	2	EACH
617 333 100	SERV ASSEMBLY	1	EACH
617 763 410	RADAR VEHICLE DETECTOR	1	EACH

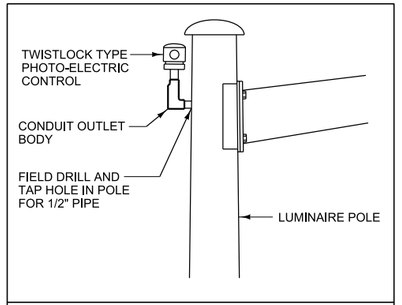
QUANTITY SUMMARY

NO SCALE

DETAILS



LUM SERVICE WIRING DIAGRAM



INSTALLATION DETAIL FOR PHOTO-ELECTRIC CONTROL

3	MONTANA Department of Transportation	C:\DGN\9655000eldet001.dgn	DESIGNED BY	Joe DeGroat	8/2022	ELECTRICAL PLANS	PRELIMINARY
2		5/11/2023	REVIEWED BY	Dan Cunningham	11/2022		
1		2:49:02 PM CPS - U7325	CHECKED BY			LEWIS AND CLARK COUNTY	

SF 179 HELENA INTX SAFETY		HSIP-G STWD (663)
	UPN 9655000	E1

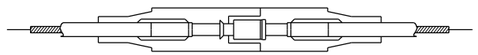
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DETAILS

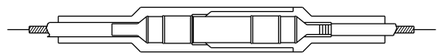
WATERTIGHT CONNECTORS

TYPES 1, 6, 11 & 16



NON-FUSED BREAKAWAY

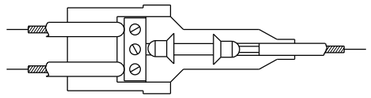
TYPES 2, 7, 12 & 17



FUSED BREAKAWAY

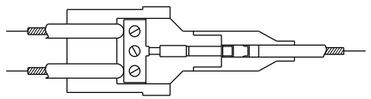
IDENTITY NO.	DESCRIPTIVE SYMBOL & WIRE SIZES
1	8 — 8
2	8 — 10
3	8 / 8 — 10
4	8 / 8 — 8
5	8 / 8 — 8
6	6 — 6
7	6 — 10
8	6 / 6 — 10
9	6 / 6 — 6
10	6 / 6 — 6
11	4 — 4
12	4 — 10
13	4 / 4 — 10
14	4 / 4 — 4
15	4 / 4 — 4
16	10 — 10
17	10 — 10
18	10 / 10 — 10
19	10 / 10 — 10
20	10 / 10 — 10
21	VARIES / VARIES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

TYPES 3, 8, 13 & 18



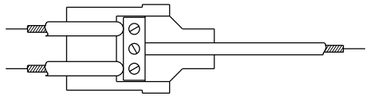
FUSED BREAKAWAY

TYPES 4, 9, 14 & 19



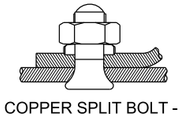
NON-FUSED BREAKAWAY

TYPES 5, 10, 15 & 20



NON-FUSED NON-BREAKAWAY

TYPE 21



COPPER SPLIT BOLT - MAKE WATERTIGHT USING SELF ADHERING MASTIC

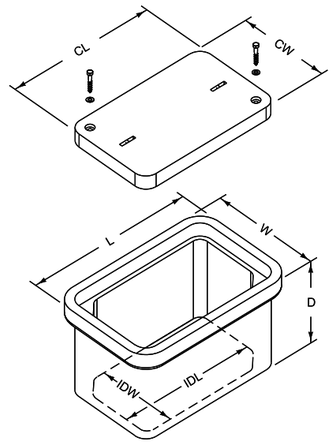
PROVIDE A PLUG AND RECEPTACLE HOUSED IN WATER-RESISTANT, SYNTHETIC RUBBER CAPABLE OF BURIAL IN THE GROUND OR INSTALLATION IN SUNLIGHT. THE HOUSING, CONSISTING OF 2 SECTIONS, PROVIDES A WATERTIGHT SEAL AROUND THE CABLE AND A WATERTIGHT SEAL BETWEEN THE TWO SECTIONS AT THE POINT OF DISCONNECTION. SUPPLY 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 20 POUNDS TENSION IS APPLIED TO THE ATTACHED CABLES.

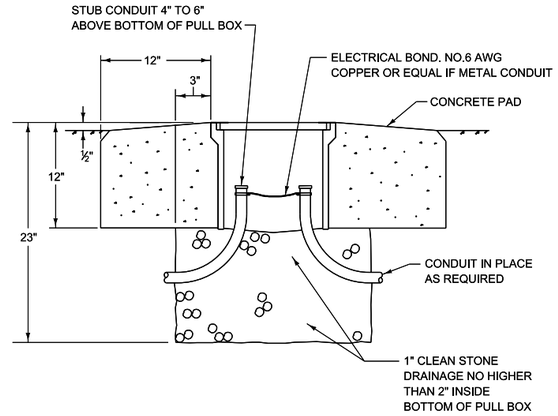
PROVIDE FUSED CONNECTOR KITS CONTAINING A PAIR OF SPRING LOADED 90% CONDUCTIVITY CONTACTS FOR GRIPPING A STANDARD MIDGET FERRULE TYPE FUSE. THE CONTACTS MUST BE FULLY ANNEALED AND ADAPTED TO BE CRIMPED TO THE CABLE.

WATERTIGHT CONNECTORS

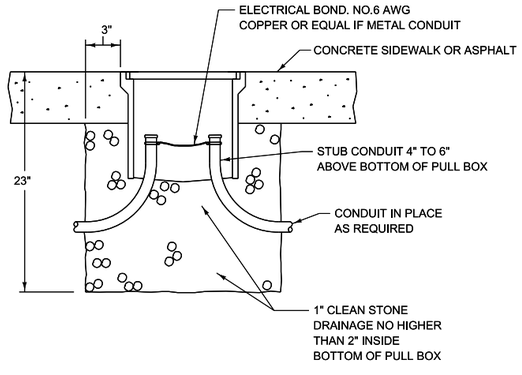
NO SCALE



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"
IDL	=	17"	IDL	=	21"	IDL	=	28"
IDW	=	10"	IDW	=	11"	IDW	=	15"
CL	=	18"	CL	=	23"	CL	=	30"
CW	=	11"	CW	=	13"	CW	=	17"



PULL BOX INSTALLED IN DIRT



PULL BOX INSTALLED IN A SIDEWALK OR ASPHALT

PULL BOX-COMPOSITE

TYPE 1,2 & 3

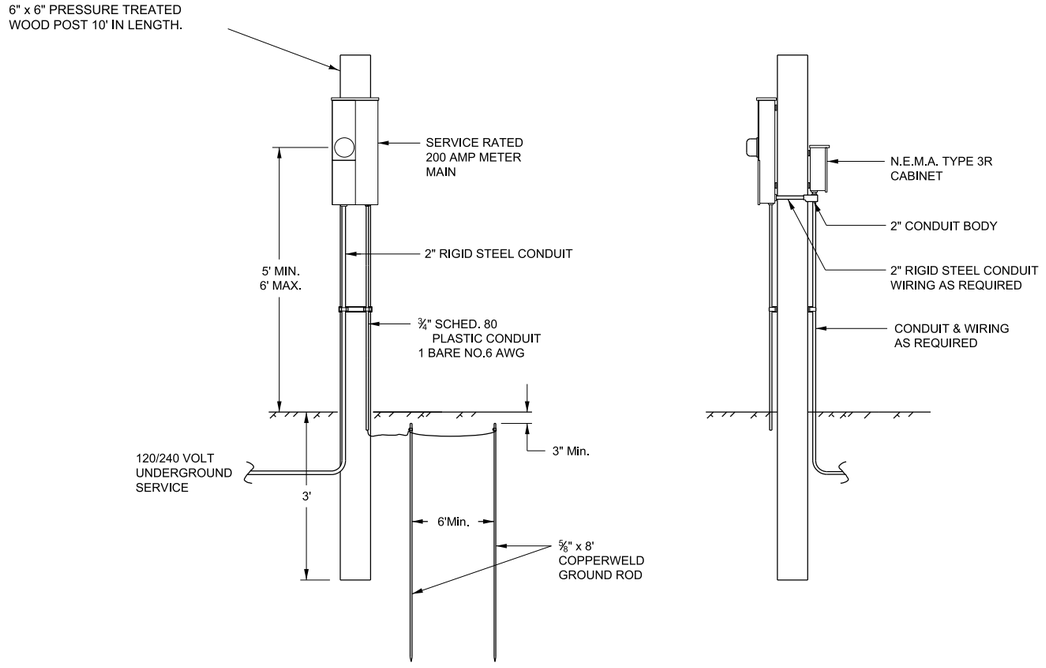
NO SCALE

REVISED: 15-APR-2014

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AWARD COPY

DETAILS



UNDERGROUND SERVICE ASSEMBLY DETAIL

UNDERGROUND SERVICE
ASSEMBLY DETAIL
NO SCALE

REVISED 15-APR-2014

3	MONTANA Department of Transportation	C:\DGN\9655000eldet001.dgn	DESIGNED BY	Joe DeGroat	8/2022	ELECTRICAL PLANS	PRELIMINARY	SF 179 HELENA INTX SAFETY / HSIP-G STWD (663)
2		5/11/2023	REVIEWED BY	Dan Cunningham	11/2022	LEWIS AND CLARK COUNTY		UPN 9655000 / E3
1		2:49:09 PM CPS - U7325	CHECKED BY					

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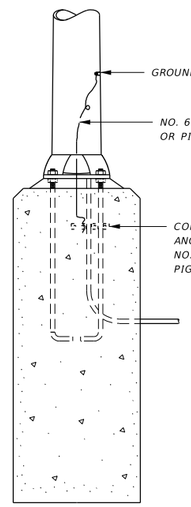
AWARD COPY

STATE	PROJECT NUMBER	SHEET NO.
MONTANA		

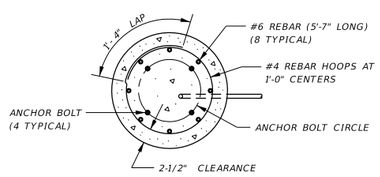
DETAILS

WELDING INSPECTION REQUIREMENTS:
25% OF ALL PARTIAL PENETRATION GROOVE AND FILLET WELDS PER PIECE REQUIRES MAGNETIC-PARTICLE TESTING PER AWS D1.1.

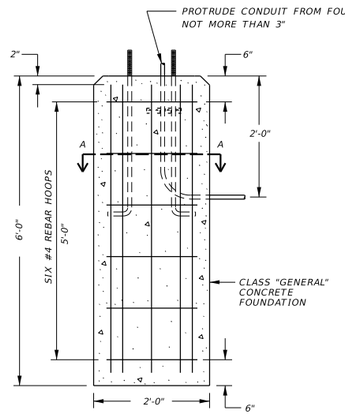
100% OF ALL FULL PENETRATION GROOVE WELDS, INCLUDING BASE CONNECTION WELD REQUIRE MAGNETIC-PARTICLE TESTING PER AWS D1.1.



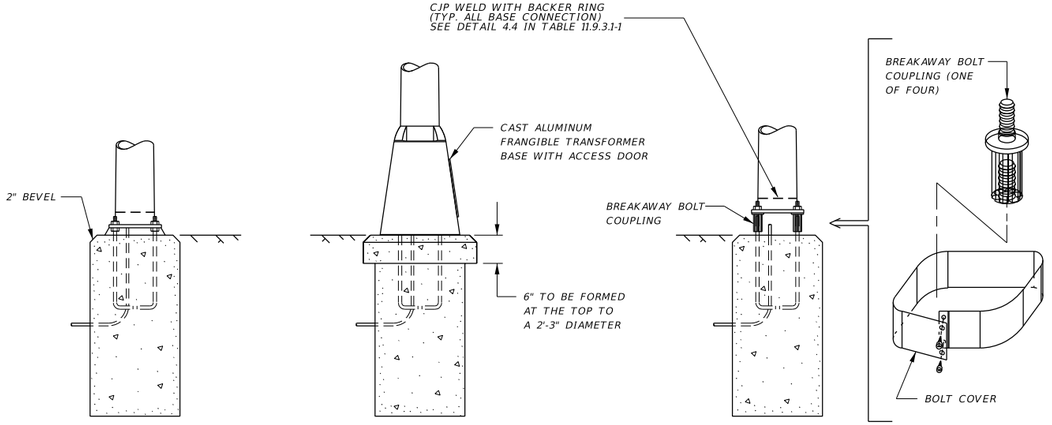
USE GRADE 60 REINFORCING STEEL



SECTION A-A



TYPICAL OF ALL FOUNDATIONS



ANCHOR
(DOUBLE NUT CONNECTION REQUIRED)

TRANSFORMER
(BREAKAWAY TYPE)

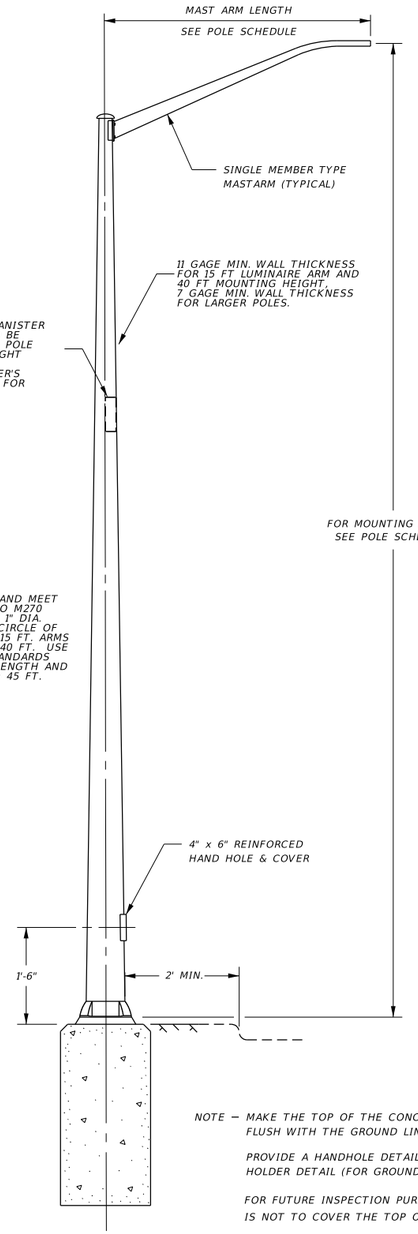
BOLT COUPLING
(BREAKAWAY TYPE)

BASE TYPES FOR LUMINAIRE STANDARDS

NOTE – INSTALL AND PRETENSION ABCHOR BOLTS PER 15.6.3 OF THE SPECIFICATIONS

BASE PLATE REQUIREMENTS:
BASE PLATES TO BE 1" THICK AND MEET THE REQUIREMENTS OF AASHTO M270 GRADE 50. HOLES TO ACCEPT 1" DIA. ANCHOR BOLTS WITH A BOLT CIRCLE OF 13 1/2" FOR STANDARDS WITH 15 FT. ARMS AND A MOUNTING HEIGHT OF 40 FT. USE A BOLT CIRCLE OF 15" FOR STANDARDS WITH ARMS UP TO 25 FT. IN LENGTH AND MOUNTING HEIGHTS OF UP TO 45 FT.

FACTORY INSTALLED CANISTER VIBRATION DAMPER TO BE INSTALLED INSIDE THE POLE TWO THIRDS POLE HEIGHT FROM THE BASE. PROVIDE MANUFACTURER'S PRODUCT DATA SHEET FOR MDT APPROVAL.



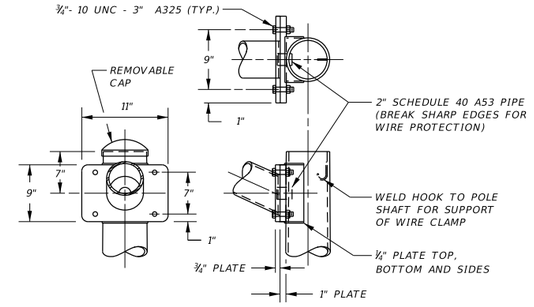
NOTE – MAKE THE TOP OF THE CONCRETE FOUNDATION FLUSH WITH THE GROUND LINE.

PROVIDE A HANDHOLE DETAIL AND A ½" NUT HOLDER DETAIL (FOR GROUNDING) .

FOR FUTURE INSPECTION PURPOSES, FILL MATERIAL IS NOT TO COVER THE TOP OF THE FOUNDATIONS

TYPE 10-A POLE

LUMINAIRE ARM CONNECTION REQUIRES 4 BOLT DESIGN WITH A325 BOLTS, NUTS AND WASHERS (FULLY TENSIONED)
TUBE TO PLATE CONNECTION TO BE SOCKET TYPE CONNECTION WITH TWO FILLET WELDS PER 14.4.4.6 OF THE SPECIFICATIONS.



NOTE – FOR ARMS BETWEEN 6 FT. AND 16 FT. IN LENGTH, USE AN 11" SQUARE PLATE WITH A BOLT SPACING OF 9 IN. VERTICAL AND 9" HORIZONTAL

DESIGN, FABRICATE, ERECT, AND INSPECT STANDARDS IN ACCORDANCE WITH THE CURRENT EDITION AASHTO LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS (AND ANY AMENDMENTS THERETO).

DESIGN PARAMETERS:

DESIGN WEIGHT = DEAD LOAD, ICE.

DESIGN AREA = AREA WITH MAXIMUM WIND LOAD (WIND IS PERPENDICULAR TO STANDARD, AS SHOWN).

DIRECTIONAL FACTOR Kd = 0.95, GUST FACTOR = 1.14 DRAG COEFFICIENTS LFRD TABLE 3.8.7-1

HEIGHT AND EXPOSURE FACTOR Kz
zg = TAKEN AS 900 FEET FOR EXPOSURE C
α= 9.5
z = 16 FEET

DESIGN WIND VELOCITY 700 YEAR MRI BASIC WIND SPEED (115 MPH)

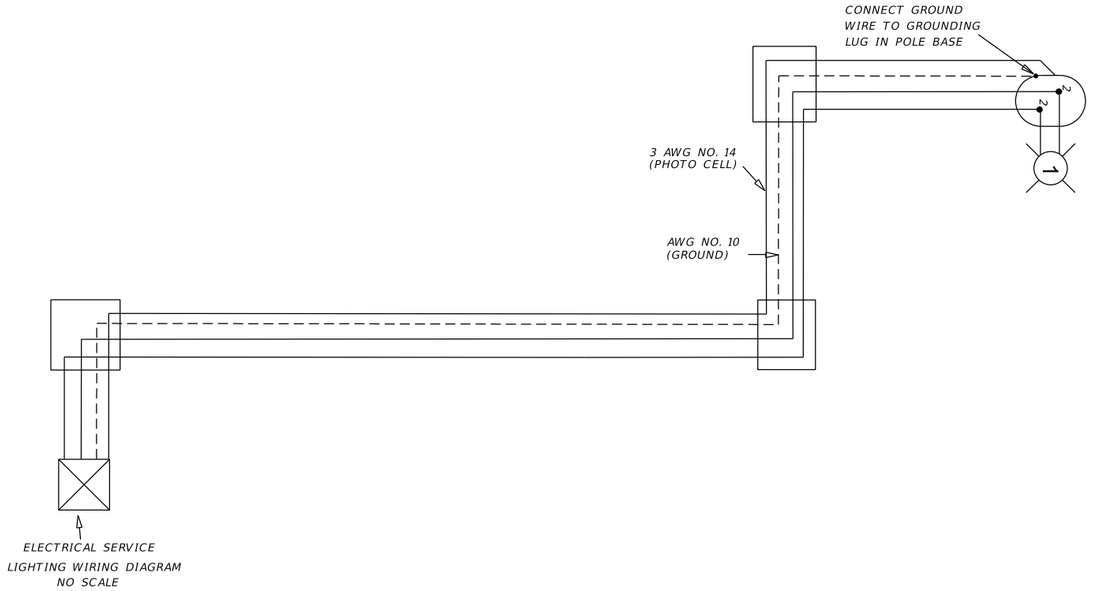
TYPE 10-A LUMINAIRE STANDARDS,
POLE BASES & FOUNDATION DETAILS
NO SCALE

LS

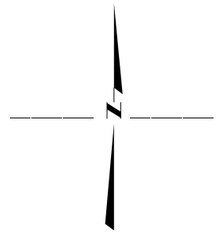
REVISED 18-JAN-2022

3	MONTANA Department of Transportation	C:\DGN\9655000eldet002.dgn	DESIGNED BY	Joe DeGroat	8/2022	ELECTRICAL PLANS	PRELIMINARY	SF 179 HELENA INTX SAFETY / HSIP-G STWD (663)
2		5/11/2023	REVIEWED BY	Dan Cunningham	11/2022			
1		2:49:20 PM CPS - U7325	CHECKED BY			LEWIS AND CLARK COUNTY		UPN 9655000 / E4

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LIGHTING WIRING DIAGRAM
NO SCALE



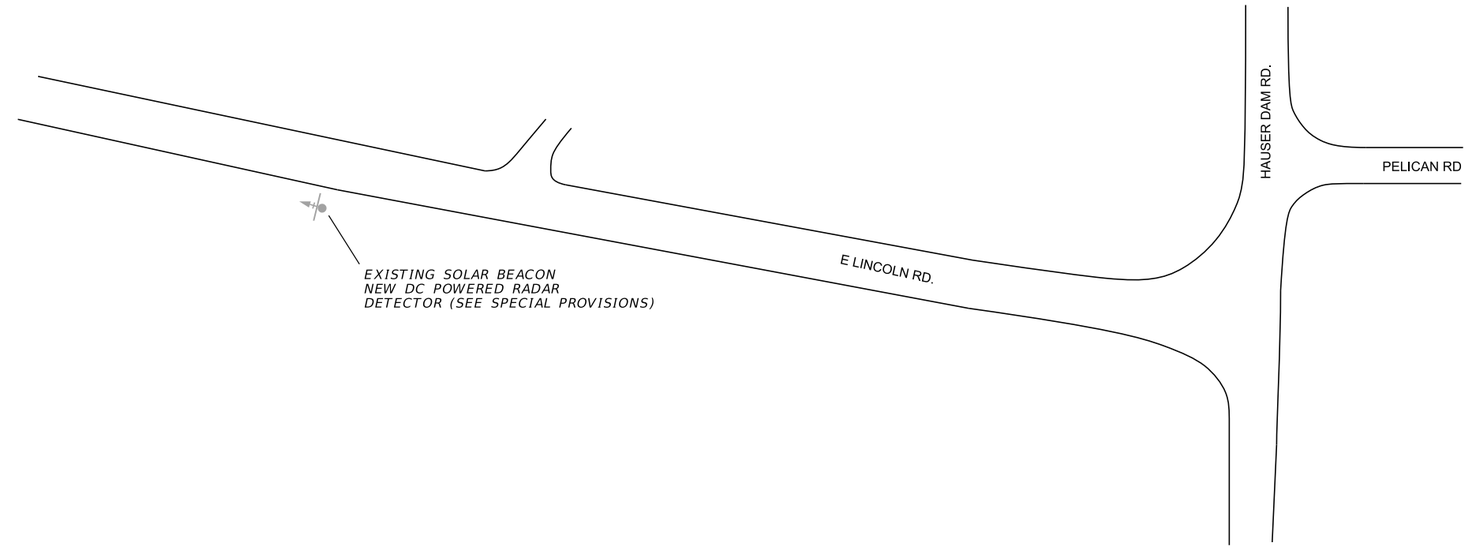
NOTE:
COORDINATE WITH NORTHWESTERN ENERGY
FOR SERVICE ASSEMBLY LOCATION

POLE SCHEDULE

POLE NO.	ITEM NO.	TYPE	TYPE POLE BASE	FOUNDATION DIA. X DEPTH	LUMINAIRE MAST ARM	LUMINAIRE HEIGHT	LUMINAIRE TYPE	N OR Y COORDINATE	E OR X COORDINATE
1	617 183 056	10-A-500-6	BREAKAWAY	2' X 6'	15'	40'	LED	904847.2128	1341737.1789

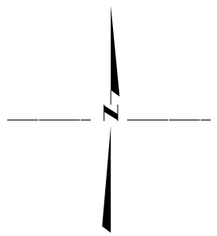
3	MONTANA Department of Transportation	C:\DGN\9655000elpln001.dgn	DESIGNED BY	Joe DeGroat	8/2022	ELECTRICAL PLANS	PRELIMINARY	SF 179 HELENA INTX SAFETY / HSIP-G STWD (663)
2		5/11/2023	REVIEWED BY	Dan Cunningham	11/2022			UPN 9655000 / E5
		2:49:30 PM CPS - U732	CHECKED BY			LEWIS AND CLARK COUNTY		

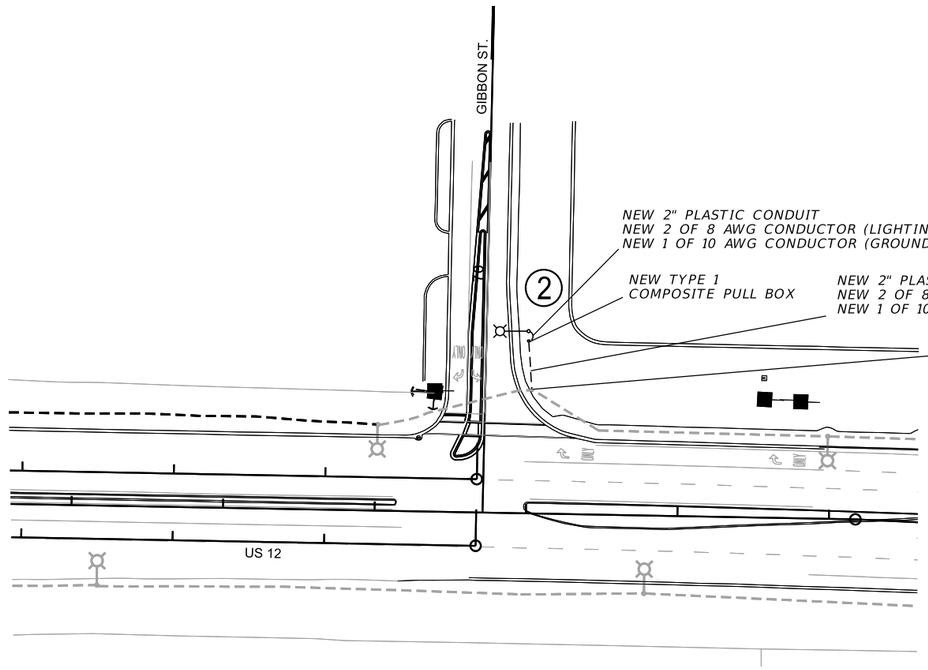
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3 1	MONTANA Department of Transportation	C:\DGN\9655000elpln001.dgn 5/11/2023 2:49:34 PM CPS - U732	DESIGNED BY REVIEWED BY CHECKED BY	Joe DeGroat Dan Cunningham	8/2022 11/2022	ELECTRICAL PLANS LEWIS AND CLARK COUNTY	PRELIMINARY	SF 179 HELENA INTX SAFETY UPN 9655000	HSIP-G STWD (663) E6

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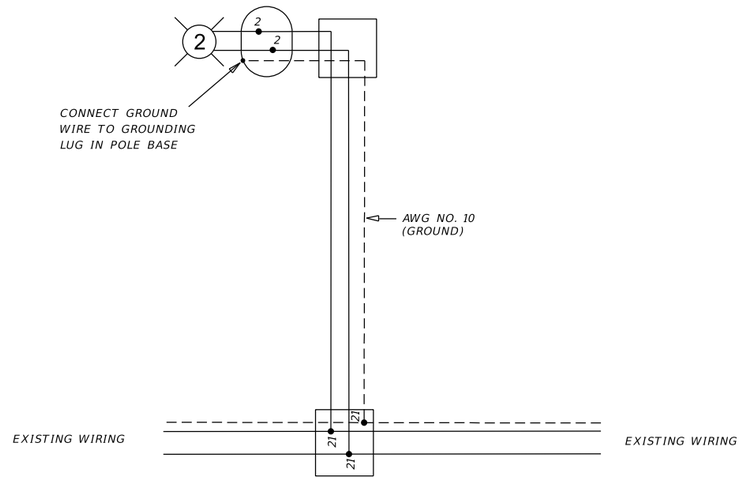


NEW 2" PLASTIC CONDUIT
NEW 2 OF 8 AWG CONDUCTOR (LIGHTING)
NEW 1 OF 10 AWG CONDUCTOR (GROUND)

NEW TYPE 1
COMPOSITE PULL BOX

NEW 2" PLASTIC CONDUIT
NEW 2 OF 8 AWG CONDUCTOR (LIGHTING)
NEW 1 OF 10 AWG CONDUCTOR (GROUND)

PULL BACK EXISTING CONDUCTORS AND INTERCEPT CONDUIT. INSTALL NEW TYPE 2 COMPOSITE PULL BOX. REINSTALL EXISTING CONDUCTORS AND SPLICE WIRING FOR NEW LUMINAIRE.



POLE SCHEDULE

POLE NO.	ITEM NO.	TYPE	TYPE POLE BASE	FOUNDATION DIA. X DEPTH	LUMINAIRE MASTARM	LUMINAIRE HEIGHT	LUMINAIRE TYPE	N OR Y COORDINATE	E OR X COORDINATE
2	617 183 056	10-A-500-6	BREAKAWAY	2' X 6'	15'	40'	LED	863649.2881	1342358.8596