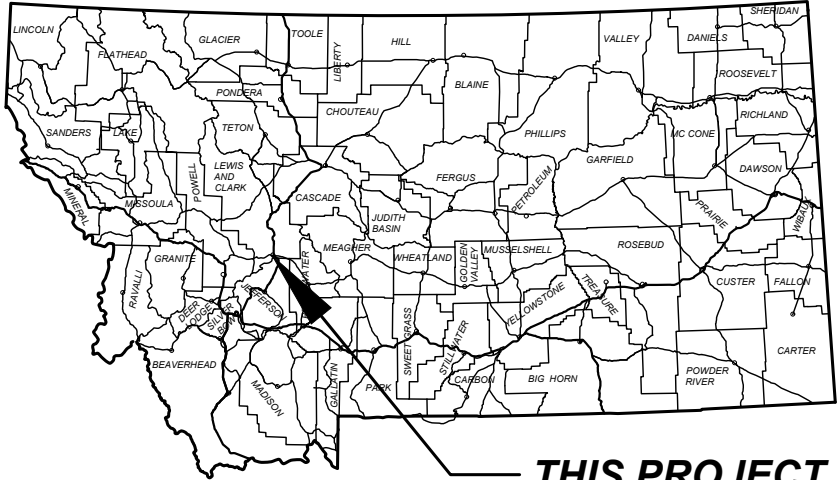


MONTANA DEPARTMENT OF TRANSPORTATION
FEDERAL AID PROJECT HSIP STWD(951)
ADA SIDEWALK & PED. CROSSING IMPROVEMENTS
SF229 HELENA PEDESTRIAN IMPRV
LEWIS & CLARK COUNTY



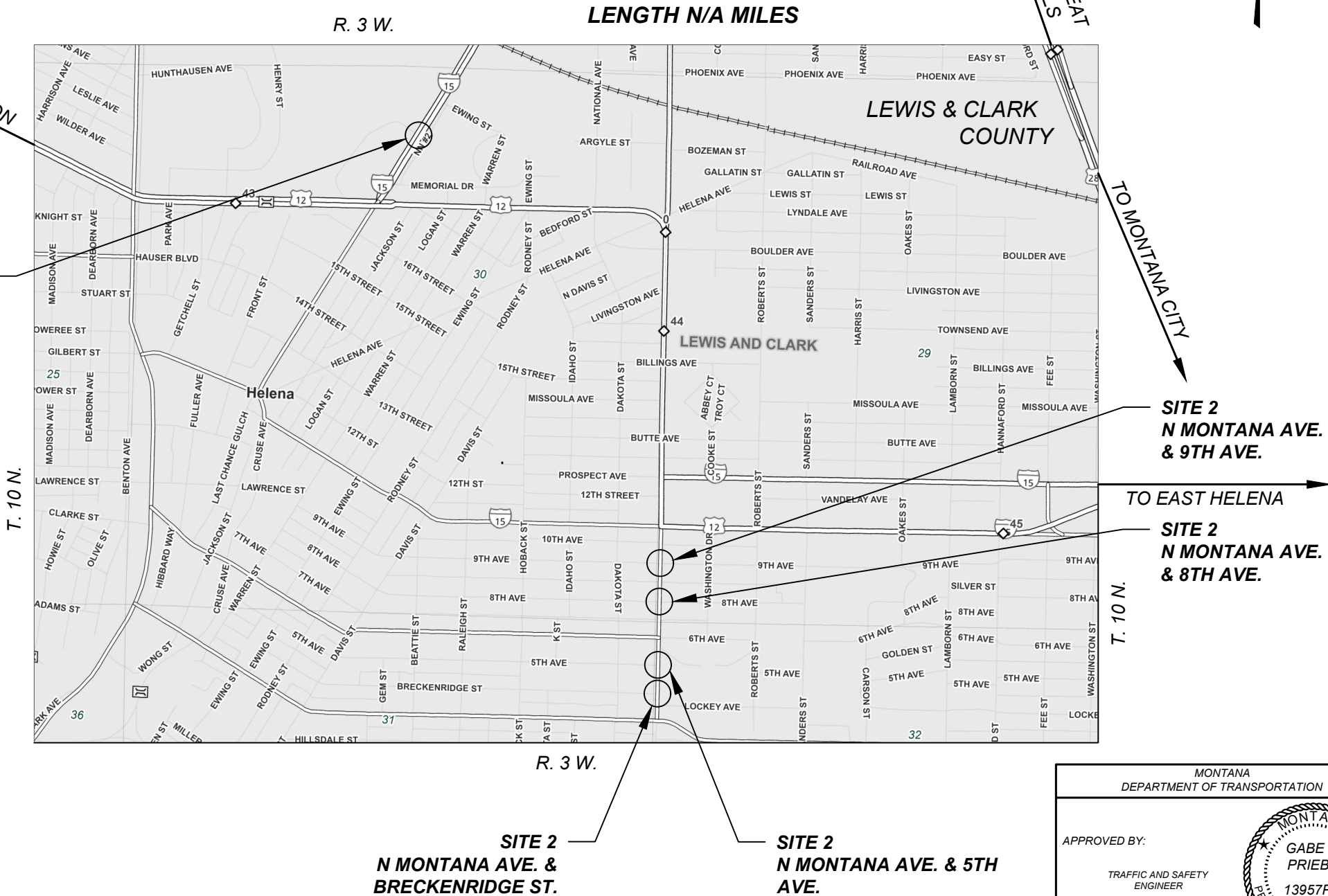
PROJECT DESIGN DATA			
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LETTING	2025	A.A.D.T. =	18,740
DESIGN	2025	A.A.D.T. =	22,860
		D.H.V. =	2,350
		TRUCKS =	0.5%
		V. =	35 MPH
		18 KIP ESAL'S =	50 DAILY
		ANNUAL GROWTH RATE =	1.0%

SITE 2 - PROJECT DESIGN DATA (U-5811)			
PRESENT	2024	A.D.T. =	10,620
LETTING	2025	A.D.T. =	10,730
DESIGN	2025	A.D.T. =	13,090
		D.H.V. =	1,360
		TRUCKS =	0.7%
		V. =	25 MPH
		18 KIP ESAL'S =	44 DAILY
		GROWTH RATE =	1.0%

ASSOCIATED PROJECT AGREEMENT NUMBERS	
R/W	
I. C.	
P. E.	HSIP STWD(950)

SURFACING SOURCES -
CONTRACTOR FURNISHED

SITE 1
N LAST CHANCE GULCH
& CENTENNIAL PARK DR.



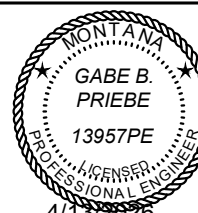
MONTANA DEPARTMENT OF TRANSPORTATION	
APPROVED BY:	
TRAFFIC AND SAFETY ENGINEER	
Signed by:	
Gabe B. Pribe	4/13/2026
4895FFA73587466...	DATE

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NOTES

ROAD PLANS

SHEET NO.

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ELECTRICAL PLANS

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BASIS OF PLAN QUANTITIES

(QUANTITIES FOR ESTIMATING PURPOSES ONLY)
COMP. AGGREGATE WEIGHT = 3700 LBS. PER CUBIC YARD
COMP. WEIGHT OF PL. MIX BIT. SURF. = 3855 LBS. PER CUBIC YARD
ASPHALT CEMENT - GRADE S - 3/8" AGG. = 6.2% OF PL.MIX BIT.SURF.
BITUMINOUS MATERIAL = 8.5 LBS. PER GAL.
EMULSIFIED ASPHALT - TACK (ALL OTHER SURFACES) = 0.05 GAL. PER SQ.YARD (UNDILUTED)
SEAL = 0.42 GAL. PER SQ. YARD
COVER = 25 LBS. PER SQ. YARD

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.

PUBLIC LAND SURVEY MONUMENTS

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

DO NOT DISTURB

DO NOT DISTURB LOCATIONS ARE CALLED OUT/NOTED ON CURB RAMP DETAILS PG 13-18

AS-BUILTS

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

UPP 5811(2) (PMBS OVERLAY - 2014)

SHEET NO.

2

TABLE OF CONTENTS & NOTES

PROJECT NAME
SF229 HELENA PEDESTRIAN IMPRV

COUNTY

LEWIS & CLARK

PROJECT ID

HSIP STWD(951)

UPN

10356000

DESIGNED BY
L. SHOQUIST

12/2025

REVIEWED BY

12/2025

D. RELPH

CHECKED BY

10/2025

J. SOLIDAY

10356000SATTL001.DWG

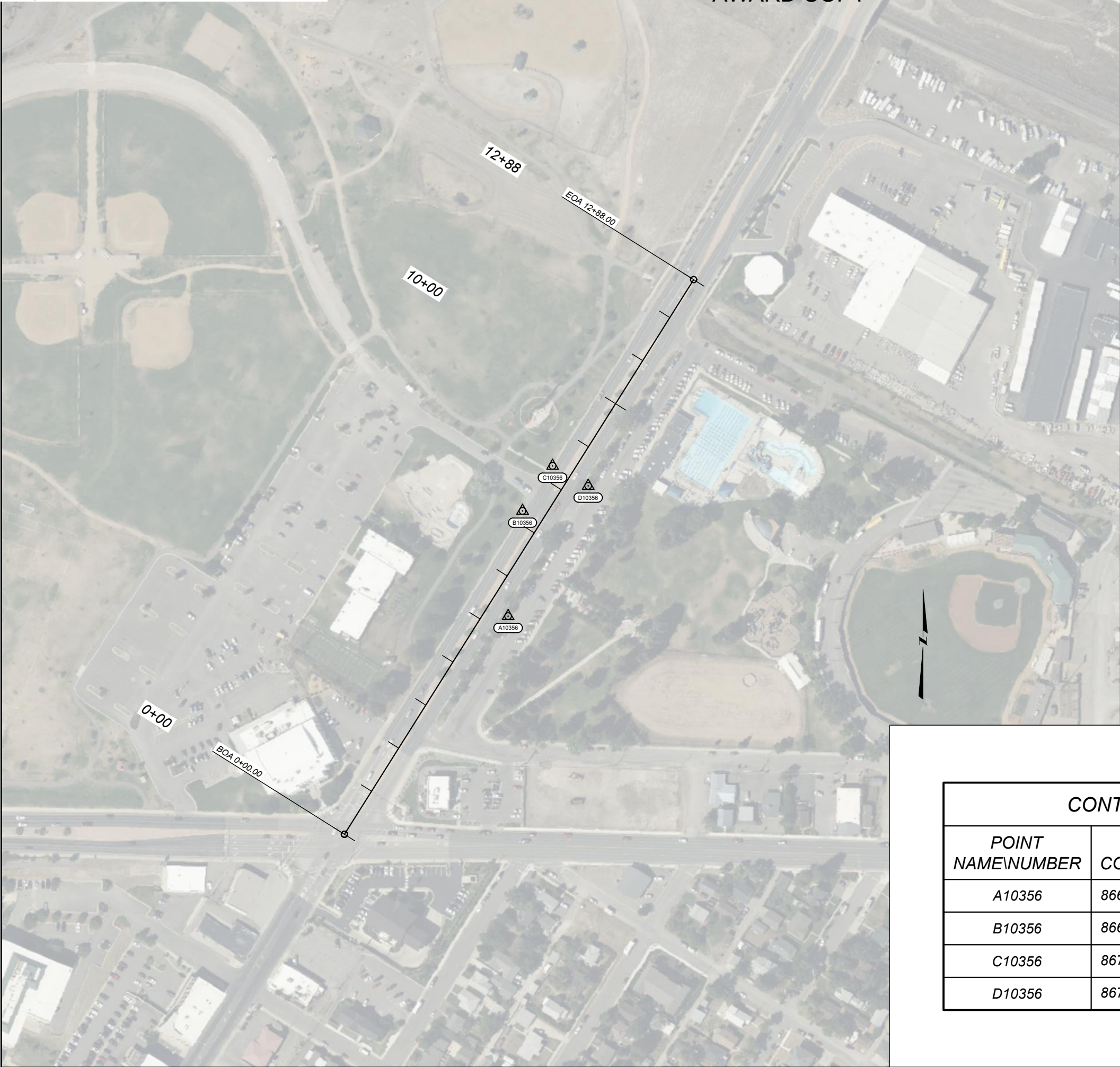


N-127/U-5811 PLN SET

1/29/2026 5:59 PM

CENTERLINE COORDINATE TABLE - ALIGNMENT - N-127_DS				
STATION	DESCRIPTION	NORTHING OR Y COORDINATE	EASTING OR X COORDINATE	REMARKS
0+00.00	BOA	866,359.945	1,332,499.543	
12+88.00	EOA	867,449.915	1,333,185.771	
PROFILE NAME: 10356000_N-127_DS				

CENTERLINE COORDINATE TABLE - ALIGNMENT - U-5811				
STATION	DESCRIPTION	NORTHING OR Y COORDINATE	EASTING OR X COORDINATE	REMARKS
0+00.00	BOA	863,198.084	1,335,281.387	
3+39.92	PI	862,858.233	1,335,274.531	
7+41.87	PI	862,456.375	1,335,265.928	
11+12.21	PI	862,086.113	1,335,258.335	
13+72.85	PI	861,825.566	1,335,251.368	
16+56.77	PI	861,541.726	1,335,244.633	
20+09.76	EOA	861,188.886	1,335,234.351	
PROFILE NAME : 10356000 - U-5811				



CONTROL DIAGRAM

SCALE: 1" = 200'

NOTE:
THIS PROJECT IS ON THE MONTANA COORDINATE SYSTEM NAD83-2011
NORTHING AND EASTING COORDINATES ARE EXPRESSED IN UNITS OF
INTERNATIONAL FEET AND ELEVATIONS ARE IN UNITS OF U.S. SURVEY FEET.
DIMENSIONS SHOWN ON THE PLANS ARE GRID. ALL SURVEY AND STAKING
REQUIRE THE USE OF A COMBINATION SCALE FACTOR (CSF) TO CONVERT GRID
DIMENSIONS TO GROUND DIMENSIONS (GRID DISTANCE / CSF = GROUND
DISTANCE). THE CSF FOR THIS PROJECT IS 0.9992296424

CSF = 0.9992296424 (RP 0.462 TO RP 0.642)

BEARING SOURCE
GRID -- MONTANA COORDINATE SYSTEM NAD 83-2011

LEVEL DATUM SOURCE
ELEVATIONS ARE BASED ON GNSS DERIVED ELEVATION
GRID -- MONTANA COORDINATE SYSTEM NAD 83-2011
NAVD 88 (GNSS DERIVED ELEVATIONS USING GEOID18 AND HOLDING BMS X453)

SHEET NO.
3

CONTROL DIAGRAM
SITE 1 - N-127
N LAST CHANCE GULCH
1" = 200'

PROJECT NAME	SF229 HELENA PEDESTRIAN IMPRV
COUNTY	LEWIS & CLARK
PROJECT ID	HSIP STWD(951)
UPN	10356000

CONTROL ABSTRACT - N-127			
POINT NAME/NUMBER	N OR Y COORDINATE	E OR X COORDINATE	POINT ELEVATION
A10356	866,788.602	1,332,821.104	3,999.98
B10356	866,995.459	1,332,849.511	3,996.27
C10356	867,083.869	1,332,908.499	3,995.68
D10356	867,044.653	1,332,978.495	3,996.60

DESIGNED BY	12/2025	MONTANA Department of Transportation	N-127/U-5811 PLN SET
L. SHOQUIST	12/2025		
REVIEWED BY	12/2025		
D. RELPH	12/2025	10356000SATRV001.DWG	11/29/2025 8:22 AM
CHECKED BY	10/2025		
J. SOLIDAY	10/2025		



CONTROL DIAGRAM

SCALE: 1" = 200'

NOTE:
THIS PROJECT IS ON THE MONTANA COORDINATE SYSTEM NAD83-2011
NORTHING AND EASTING COORDINATES ARE EXPRESSED IN UNITS OF
INTERNATIONAL FEET AND ELEVATIONS ARE IN UNITS OF U.S. SURVEY FEET.
DIMENSIONS SHOWN ON THE PLANS ARE GRID. ALL SURVEY AND STAKING
REQUIRE THE USE OF A COMBINATION SCALE FACTOR (CSF) TO CONVERT GRID
DIMENSIONS TO GROUND DIMENSIONS (GRID DISTANCE / CSF = GROUND
DISTANCE). THE CSF FOR THIS PROJECT IS 0.99922618

CSF = 0.99922618 (RP 0.000 TO RP 0.360)

BEARING SOURCE

GRID -- MONTANA COORDINATE SYSTEM NAD 83-2011

LEVEL DATUM SOURCE

ELEVATIONS ARE BASED ON GNSS DERIVED ELEVATION
GRID -- MONTANA COORDINATE SYSTEM NAD 83-2011
NAVD 88 (GNSS DERIVED ELEVATIONS USING GEOID18 AND HOLDING BMS X453)

CONTROL ABSTRACT - N-127			
POINT NAME\NUMBER	N OR Y COORDINATE	E OR X COORDINATE	POINT ELEVATION
10356E	862,857.724	1,335,232.310	4,076.46
10356F	862,789.864	1,335,300.433	4,077.90
10356G	862,495.018	1,335,223.951	4,091.36
10356H	862,503.644	1,335,294.471	4,090.57
10356I	862,422.638	1,335,294.446	4,092.98
10356J	861,813.332	1,335,210.706	4,122.89
10356K	861,855.538	1,335,280.154	4,121.17
10356L	861,544.837	1,335,272.328	4,138.94
10356M	861,497.626	1,335,214.424	4,142.35
X453	862,786.212	1,335,247.168	4,077.86

SHEET NO.

4

CONTROL DIAGRAM
SITE 2 - U-5811
N MONTANA AVE.
1" = 200'

PROJECT NAME
SF229 HELENA PEDESTRIAN IMPRV

COUNTY

LEWIS & CLARK

PROJECT ID

HSIP STWD(951)

UPN

10356000



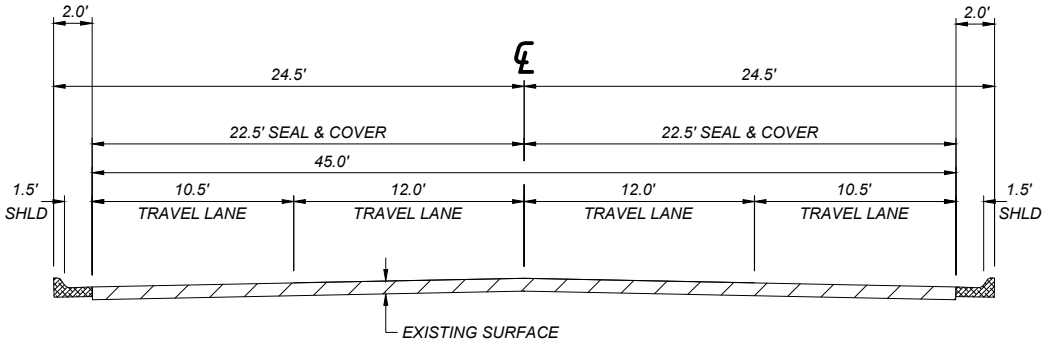
N-127/U-5811 PLN SET

2/2/2026 11:56 AM

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TYPICAL SECTION NO. 1

MAINLINE



QUANTITIES			
UNIT	AGGREGATE	UNIT	
	COVER		EMULSIFIED ASPHALT SEAL
AREA square feet		square yards PER STATION	500
cubic yards PER STATION		tons PER STATION	0.89
tons PER STATION		gals. PER STATION	
square yards PER STATION	500		

2+57.43
2+57.43
17+23.00

TO

3+27.43

ONLY-PTW
TRANS. TYP. NO. 1 TO TYP. NO. 3
ONLY-PTW

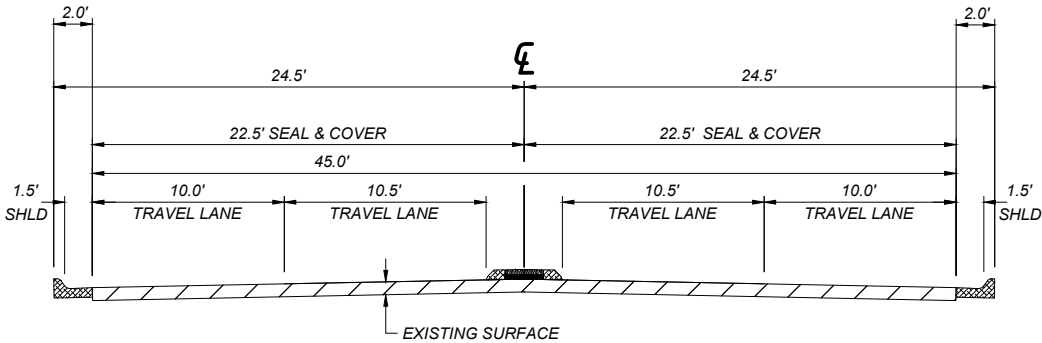
SHEET NO.

5

TYPICALS

TYPICAL SECTION NO. 2

MAINLINE



QUANTITIES			
UNIT	AGGREGATE	UNIT	
	COVER		EMULSIFIED ASPHALT SEAL
AREA square feet		square yards PER STATION	456
cubic yards PER STATION		tons PER STATION	0.81
tons PER STATION		gals. PER STATION	
square yards PER STATION	456		

4+08.53
7+74.13
11+64.71
14+11.12

TO

6+89.12

THEN TO TYP. NO. 3
THEN TO TYP. NO. 3
THEN TO TYP. NO. 3
THEN TO TYP. NO. 3

PROJECT NAME
SF229 HELENA PEDESTRIAN IMPRV

COUNTY
LEWIS & CLARK

PROJECT ID
HSIP STWD(951)

UPN
10356000

DESIGNED BY
L. SHOQUIST

12/2025

REVIEWED BY
D. RELPH

12/2025

CHECKED BY
J. SOLIDAY

10/2025

10356000SATYP002.DWG

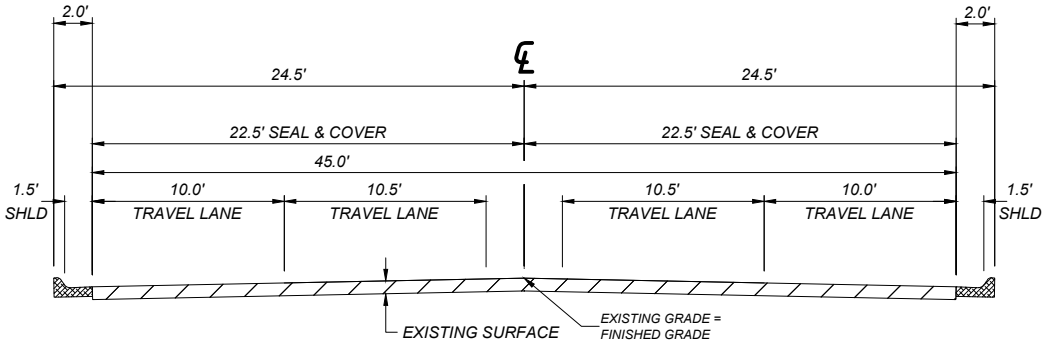
MONTANA
Department of Transportation

N-127/U-5811 PLN SET

2/2/2026 11:56 AM

TYPICAL SECTION NO. 3

MAINLINE



QUANTITIES			
UNIT	AGGREGATE	UNIT	EMULSIFIED ASPHALT SEAL
	COVER		
AREA square feet		square yards PER STATION	500
cubic yards PER STATION		tons PER STATION	0.89
tons PER STATION		gals. PER STATION	
square yards PER STATION	500		

3+27.43	TO	4+08.53	THEN TO TYP. NO. 2
6+89.12	TO	7+74.13	THEN TO TYP. NO. 2
10+00.00	TO	11+64.71	THEN TO TYP. NO. 2
13+27.99	TO	14+11.12	THEN TO TYP. NO. 2
15+87.02	TO	16+53.00	THEN TO TYP. NO. 2
16+53.00	TO	17+23.00	TRANS. TO TYP. NO. 1

SHEET NO.

6

TYPICALS

PROJECT NAME
SF229 HELENA PEDESTRIAN IMPRV

COUNTY

LEWIS & CLARK

PROJECT ID

HSIP STWD(951)

UPN

10356000



N-127/U-5811 PLN SET

2/2/2026 11:56 AM

DESIGNED BY

L. SHOQUIST 12/2025

REVIEWED BY

D. RELPH 12/2025

CHECKED BY

J. SOLIDAY 10/2025

10356000SATYP002.DWG

SUMMARY

SHEET NO.

7

SUMMARY

SIDEWALK									
STATION		sq. yards						linear feet	REMARKS
		CONCRETE SIDEWALK		DETECTABLE WARNING DEVICES		REMOVE SIDEWALK #		WIDTH	
FROM	TO	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT		
SITE 1									
N LAST CHANCE GULCH & CENTENNIAL PARK DR.									
8+12.59	8+21.55	14.5		1.1		14.2		VARIES	CENTENNIAL PARK NW
8+14.25	8+20.61	9.1		1.3	1.3			VARIES	LAST CHANCE GULCH MEDIAN
8+11.35	8+23.60		17.1		3.6		14.6	VARIES	CENTENNIAL PARK NE
SITE 2									
BRECKENRIDGE ST. & N MONTANA AVE.									
15+84.73	16+11.00		33.9		2.2		36.5	VARIES	BRECKENRIDGE ST. NW
15+91.90	16+13.65	22.5		1.1		28.1		VARIES	BRECKENRIDGE ST. NE
5TH AVE. & N MONTANA AVE.									
13+80.04	14+06.99		33.8		2.2		36.4	VARIES	5TH AVE SW
13+82.55	13+99.47	19.9		1.1		24.5		VARIES	5TH AVE SE
8TH AVE. & N MONTANA AVE.									
6+85.09	7+09.62		31.6		2.2		33.9	VARIES	8TH AVE NW
6+88.95	7+10.41	31.4		2.2		33.9		VARIES	8TH AVE NE
9TH AVE. & N MONTANA AVE.									
3+87.06	4+13.42		34.9		2.2		30.1	VARIES	9TH AVE SW
3+87.09	4+12.05	30.7		2.2		33.2		VARIES	9TH AVE SE
SUBTOTAL		128.1	151.3	9.0	13.7	134.0	151.5	~	
TOTAL		279.4		22.7		~		~	

FOR INFORMATION ONLY - INCLUDE IN THE COST OF SIDEWALK

MEDIAN CONCRETE CURB ##				
STATION		linear feet	sq. yards	REMARKS
		MEDIAN CONCRETE CURB	DECORATIVE CONCRETE	
FROM	TO	TYPE A	3"	
SITE 2				
N MONTANA AVE. & MULTIPLE INTERSECTIONS				
4+08.53	6+89.12	565.8	61.8	9TH AVE TO 8TH AVE - 1.0' RADIUS - 2.0' WIDE
7+74.13	10+10.00	456.3	49.7	8TH AVE TO 6TH AVE - 1.0' RADIUS - 2.0' WIDE
11+64.71	13+27.99	331.1	35.7	6TH AVE TO 5TH AVE - 1.0' RADIUS - 2.0' WIDE
14+11.12	15+87.02	356.4	38.5	5TH TO BRECKENRIDGE ST - 1.0' RADIUS - 2.0' WIDE
TOTAL		1,709.6	185.7	

SEE GEOMETRIC DETAIL FOR LAYOUT.

CURB								
STATION		linearfeet				sq. yards		REMARKS
		CONCRETE CURB AND GUTTER		REMOVE CURB AND GUTTER #		CONCRETE VALLEY GUTTER		
FROM	TO	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	
SITE 1								
N LAST CHANCE GULCH & CENTENNIAL PARK DR.								
8+10.27	8+25.55	15.8		15.8				CENTENNIAL PARK NW
8+08.86	8+27.78		19.9		20.0			CENTENNIAL PARK NE RAMP 1
8+07.81	8+26.64		18.8		18.8			CENTENNIAL PARK NE RAMP 2
SITE 2								
BRECKENRIDGE ST. & N MONTANA AVE.								
15+86.48	16+11.07		36.8		36.4			BRECKENRIDGE ST. NW
15+93.55	16+18.71	25.2		25.2				BRECKENRIDGE ST. NE
5TH AVE. & N MONTANA AVE.								
13+80.10	14+06.65		43.9		44.1			5TH AVE SW
13+77.65	13+99.83	22.2		22.2				5TH AVE SE
8TH AVE. & N MONTANA AVE.								
6+84.75	7+09.10		23.7		47.4		12.5	8TH AVE NW- REPLACE VALLEY GUTTER
6+83.61	7+10.56	22.0		48.2		12.9		8TH AVE NE - REPLACE VALLEY GUTTER
9TH AVE. & N MONTANA AVE.								
3+86.90	4+13.89		27.1		52.8		13.2	9TH AVE SW- REPLACE VALLEY GUTTER
3+86.90	4+12.85	21.0		46.6		12.9		9TH AVE SE - REPLACE VALLEY GUTTER
SUBTOTAL		106.2	170.2	158.0	219.5	25.8	25.7	
TOTAL		276		~		51.5		

FOR INFORMATION ONLY - INCLUDE IN THE COST OF CONCRETE CURB AND GUTTER

PAVEMENT MARKINGS

ITEM	UNIT	INTERIM APPLICATION #	FINAL APPLICATION	TOTAL
STRIPING - WHITE PAINT	gallon	29		29
STRIPING - YELLOWPAINT	gallon	15		15
WORDS & SYMBOLS - WHITE PAINT	gallon	44		44
WORDS & SYMBOLS - YELLOWPAINT	gallon	2		2
STRIPING - WHITE EPOXY	gallon		39	39
STRIPING - YELLOWEPOXY	gallon		20	20
WORDS & SYMBOLS - WHITE EPOXY	gallon		58	58
WORDS & SYMBOLS - YELLOWEPOXY	gallon		3	3
YELLOW CURB MARKINGS	gallon		140	140
FINAL SWEEP & BROOM	course mile			0.3

BASED ON 1 APPLICATIONS.

PROJECT NAME
SF229 HELENA PEDESTRIAN IMPRV

COUNTY

LEWIS & CLARK

PROJECT ID

HSIP STWD(951)

UPN

10356000

DESIGNED BY
L. SHOQUIST

12/2025

REVIEWED BY
D. RELPH

12/2025

CHECKED BY
J. SOLIDAY

10/2025

10356000SASUM001.DWG



N-127/U-5811 PLN SET

4/3/2026 12:00 PM

The plan view shows the intersection of N Montana Ave and 9th Ave. The proposed layout includes a central intersection with a 35:1 taper and 140:1 tapers on the approaches. Stationing is provided for the centerline and right-of-way lines. Various engineering notes and labels are present, including 'CW1' through 'CW8', 'Y1' through 'Y4', 'M1', 'M2', 'R1.0'', and 'R2.0''. The existing layout is shown with dashed lines and labels like 'N MONTANA AVE.' and '9TH AVE.'.

POINT COORDINATES		
POINT NAME/NUMBER	N OR Y COORDINATE	E OR X COORDINATE
STA. 2+57.43	BEG. 35:1 TAPER 0.0' RT. ϵ	
	BEG. 140:1 TAPER 12.0' RT. ϵ	
STA. 3+27.43	END 35:1 TAPER 2.0' RT. ϵ	
	END 140:1 TAPER 12.5' RT. ϵ	



<p>DETAIL</p> <p>SITE 2</p> <p>GEOMETRIC DETAIL</p> <p>SHEET 1 OF 3</p> <p>1" = 50'</p>	<p>SHEET NO.</p> <p>9</p>
--	----------------------------------

PROJECT NAME
SF229 HELENA PEDESTRIAN IMPRV

LEWIS & CLARK

HSIP STWD(951)

10356000

DESIGNED BY	
L. SHOQUIST	12/2025
REVIEWED BY	
D. RELPH	12/2025
CHECKED BY	
J. SOLIDAY	10/2025
10356000GEDET001.DWG	



N-127/U-5811 PLN SET


2/2/2026 11:57 AM



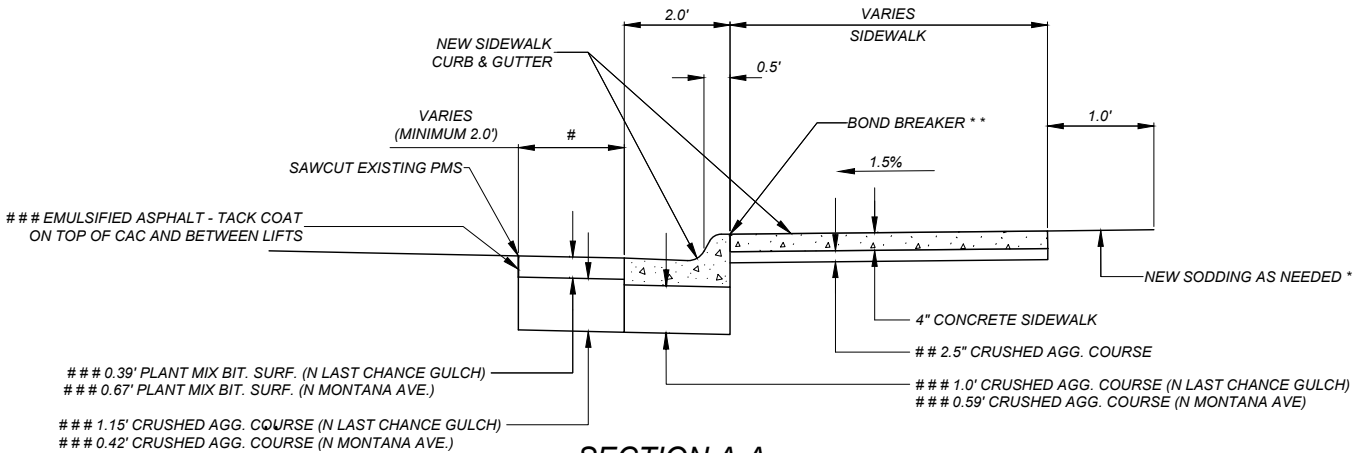
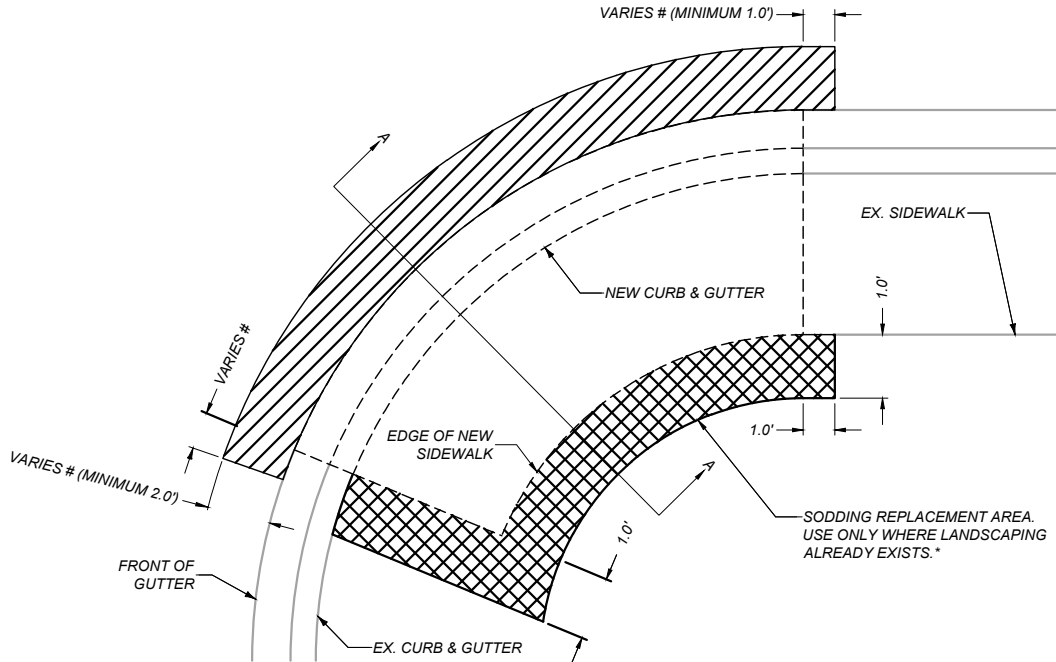
POINT COORDINATES		
POINT NAME/NUMBER	N OR Y COORDINATE	E OR X COORDINATE
M7	862,200.319	1,335,259.677
M8	862,200.270	1,335,261.676
M9	862,031.658	1,335,255.879
M10	862,031.600	1,335,257.878
P1	862,157.519	1,335,261.800
P2	862,157.618	1,335,257.801
P3	862,067.912	1,335,259.849
P4	862,068.028	1,335,255.851
SB1	862,155.607	1,335,256.759
SB2	862,156.084	1,335,237.265
SB3	862,069.859	1,335,260.904
SB4	862,069.329	1,335,280.395
Y5	862,534.873	1,335,264.107
Y6	862,535.281	1,335,245.862
Y7	862,398.065	1,335,268.233
Y8	862,397.694	1,335,286.229



POINT COORDINATES		
POINT NAME/NUMBER	N OR Y COORDINATE	E OR X COORDINATE
Y13	861,637.968	1,335,243.416
Y14	861,638.395	1,335,225.171
Y15	861,547.411	1,335,248.268
Y16	861,546.982	1,335,266.513

 MONTANA Department of Transportation	DESIGNED BY		PROJECT NAME		DETAIL SITE 2 GEOMETRIC DETAIL SHEET 3 OF 3 1" = 50"
	L. SHOQUIST		SF229 HELENA PEDESTRIAN IMPRV		
	REVIEWED BY		COUNTY		
	D. RELPH		LEWIS & CLARK		
	CHECKED BY		PROJECT ID		
J. SOLIDAY		HSIP STWD(951)		UPN	
N-127/U-5811 PLN SET		10/2025		10356000	
2/2/2026 11:57 AM		10356000GEDET001.DWG			

DETAIL



SECTION A-A



CONSTRUCTION LIMITS FOR
REMOVAL OF EXISTING CURB &
GUTTER AND PLACEMENT OF FORMS
FOR NEW CURB & GUTTER



MAXIMUM CONSTRUCTION LIMITS FOR
REMOVAL OF EXISTING LANDSCAPING AND
PLACEMENT OF FORMS FOR NEW SIDEWALK. *

NOTES:

* WHEN ADJACENT TO LANDSCAPING REPLACE WITH EQUIVALENT
AS INSTRUCTED BY PROJECT MANAGER

** FURNISH BOND BREAKER IN ACCORDANCE WITH DTL. DWG. 608-05.

FOR PAVEMENT REMOVAL DIMENSIONS REFER TO PLAN SHEETS.

ITEM NOT MEASURED FOR PAYMENT. INCLUDE IN COST OF NEW
SIDEWALK.

THESE ITEMS ARE NOT MEASURED FOR PAYMENT. INCLUDE IN COST OF
NEW CURB & GUTTER

SHEET NO.

12

DETAIL
CURB & GUTTER,
SIDEWALK,
SURFACING REPAIR
(NO SCALE)

PROJECT NAME
SF229 HELENA PEDESTRIAN IMPRV

COUNTY

LEWIS & CLARK

PROJECT ID

HSIP STWD(951)

UPN

10356000

DESIGNED BY

L. SHOQUIST 12/2025

REVIEWED BY

D. RELPH 12/2025

CHECKED BY

J. SOLIDAY 10/2025

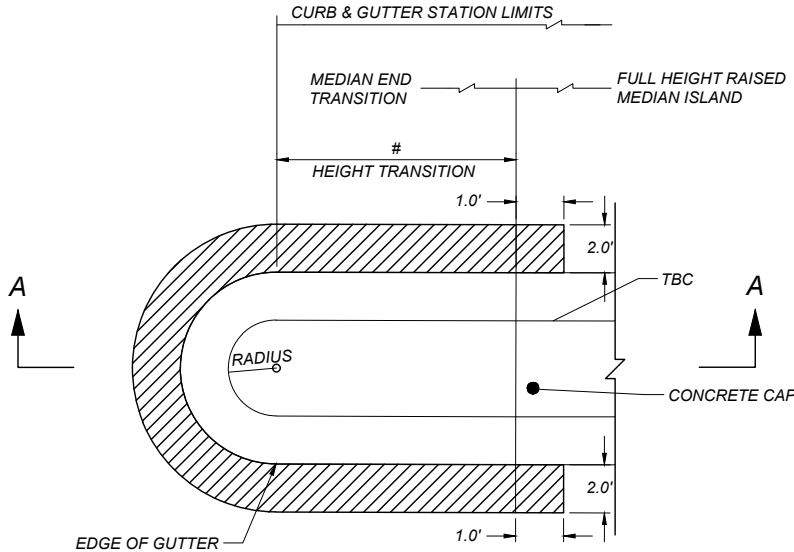
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MONTANA
Department of Transportation

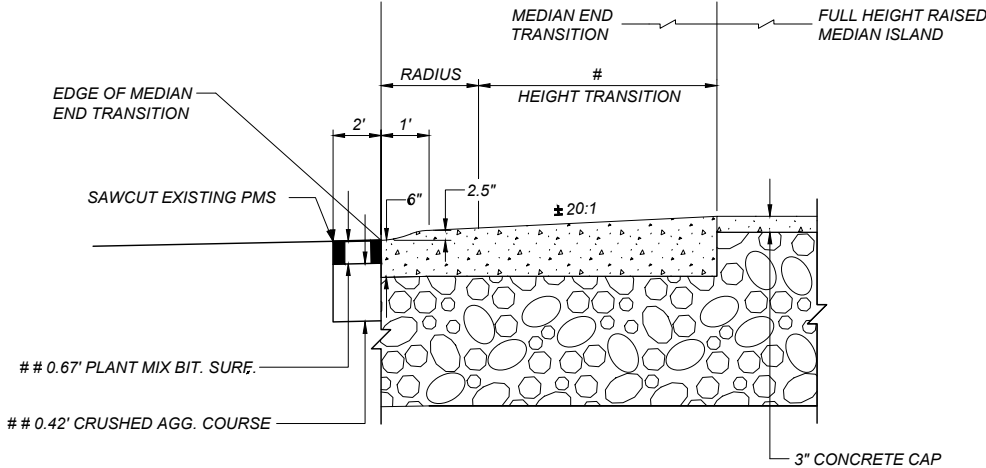
N-127/U-5811 PLN SET

2/2/2026 11:58 AM

DETAIL



PLAN



SECTION A-A

MEDIAN END TRANSITION

U-5811 (N LAST CHANCE GULCH)

- 4+10.53 - 4+16.36 - R 1.0'
- 6+81.29 - 6+87.12 - R 1.0'
- 7+76.13 - 7+81.96 - R 1.0'
- 9+92.17 - 9+98.00 - R 1.0'
- 11+66.71 - 11+72.54 - R 1.0'
- 13+20.16 - 13+25.99 - R 1.0'
- 14+13.12 - 14+18.95 - R 1.0'
- 15+79.19 - 15+85.02 - R 1.0'



CONSTRUCTION LIMITS FOR REMOVAL OF EXISTING PAVEMENT AND PLACEMENT OF FORMS FOR NEW MEDIAN TRANSITIONS

NOTE:

INCLUDE THE COST OF THE MEDIAN END TRANSITION IN THE UNIT BID PRICE PER LINEAR FOOT OF NEW MEDIAN CONCRETE CURB.

LENGTH MAY VARY BASED ON RADIUS

THESE ITEMS ARE NOT MEASURED FOR PAYMENT. INCLUDE IN COST OF NEW MEDIAN CONCRETE CURB.

SHEET NO.

13

DETAIL
MISCELLANEOUS
CURB
(NO SCALE)

PROJECT NAME
SF229 HELENA PEDESTRIAN IMPRV

COUNTY

LEWIS & CLARK

PROJECT ID

HSIP STWD(951)

UPN

10356000

DESIGNED BY

12/2025

L. SHOQUIST

REVIEWED BY

12/2025

D. RELPH

CHECKED BY

10/2025

J. SOLIDAY

10356000SADET012.DWG

MONTANA
Department of Transportation

N-127/U-5811 PLN SET

2/2/2026 11:58 AM

INTERSECTION OF (N LAST CHANCE GULCH - CENTENNIAL PARK)
NORTHWEST CORNER

MEDIAN OF (N LAST CHANCE GULCH)
NORTH MEDIAN ISLAND

SHEET NO.

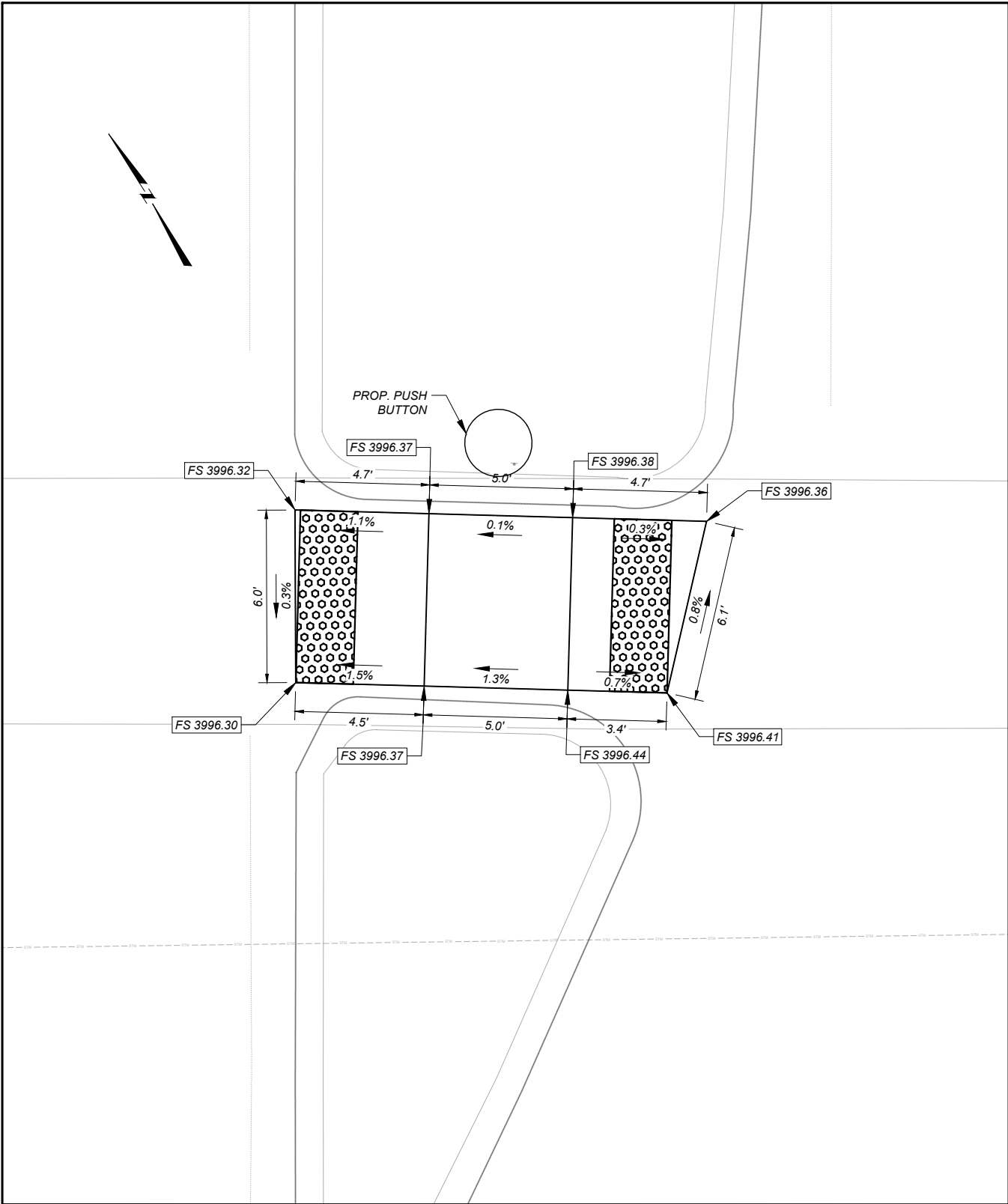
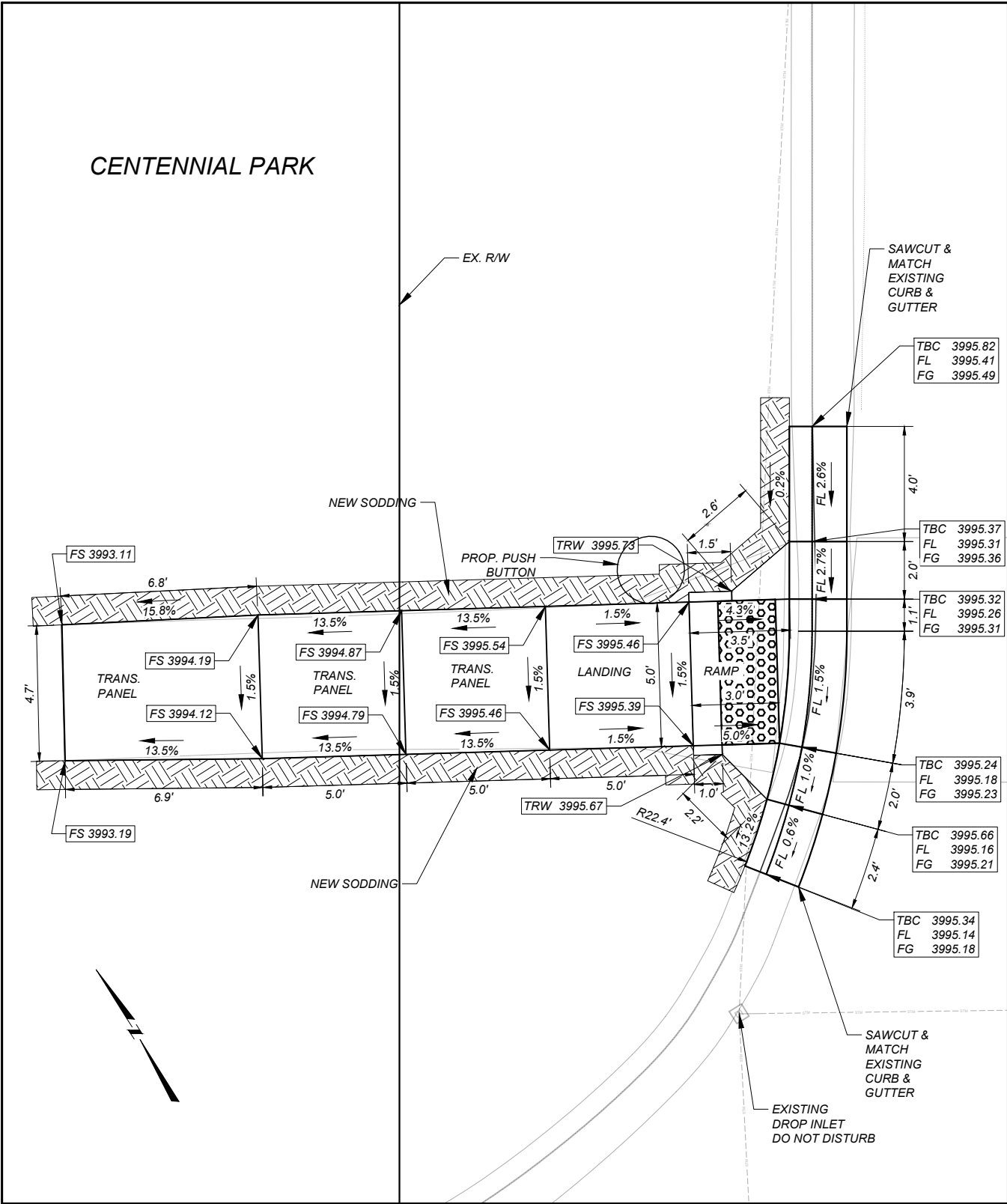
14

CURB RAMP DETAIL SHEET 1 OF 2
SITE 1
N LAST CHANCE GULCH &
CENTENNIAL PARK DR.
1" = 5'

PROJECT NAME
SF229 HELENA PEDESTRIAN IMPRV
COUNTY
LEWIS & CLARK
PROJECT ID
HSIP STWD(951)
UPN
10356000

DESIGNED BY
L. SHOQUIST
12/2025
REVIEWED BY
D. RELPH
12/2025
CHECKED BY
J. SOLIDAY
10/2025
10356000SADET001.DWG

MONTANA
Department of Transportation
N-127/U-5811 PLN SET
2/2/2026 11:58 AM



LEGEND
FS = FINISHED SURFACE ELEV.
TBC = TOP BACK OF CURB ELEV.
FL = FLOW LINE ELEV.
TRW = TOP OF RETAINING WALL ELEV.
FG = FRONT OF GUTTER ELEV.



DETECTABLE WARNING DEVICES

NOTES:

PROVIDE DETECTABLE WARNING DEVICES ON THE BOTTOM 2.0 FEET OF EACH RAMP AS SHOWN. SEE DTL. DWG. NO. 608-40 FOR DETECTABLE WARNING DEVICES DETAILS.

ALL DIMENSIONS AND ELEVATIONS ARE FEET UNLESS OTHERWISE NOTED.

ALL CURB AND GUTTER DIMENSIONS ARE ALONG TBC.

CONTRACTOR VERIFY ELEVATIONS IN THE FIELD PRIOR TO CONSTRUCTION.

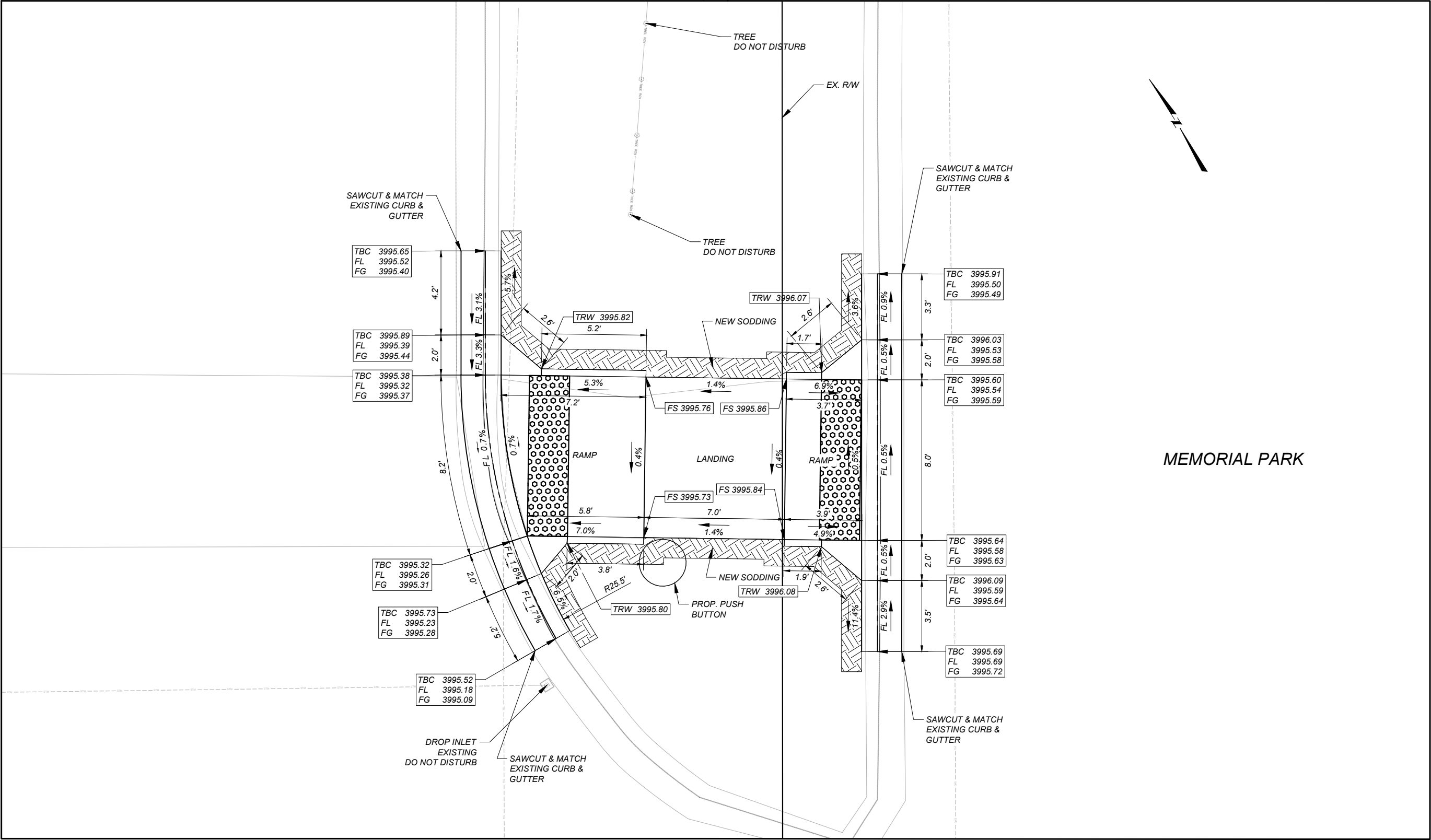
MATCH EXISTING ELEVATIONS AT ALL JOINTS BETWEEN NEW AND EXISTING CONCRETE. ELEVATIONS SHOWN AT MATCH LINE LOCATIONS ARE APPROXIMATE.

SEE DETAILED DRAWINGS FOR STANDARD SIDEWALK, CURB & GUTTER AND RETAINING WALL DETAILS.

N LAST CHANCE GULCH
& CENTENNIAL PARK DR.
CURB RAMP DETAIL

SCALE: 1" = 5'

INTERSECTION OF (N LAST CHANCE GULCH - CENTENNIAL PARK)
NORTHEAST CORNER



MEMORIAL PARK

LEGEND

FS = FINISHED SURFACE ELEV.

TBC = TOP BACK OF CURB ELEV.

FL = FLOW LINE ELEV.

TRW = TOP OF RETAINING WALL ELEV.

FG = FRONT OF GUTTER ELEV.

DETECTABLE WARNING DEVICES

NOTES:

PROVIDE DETECTABLE WARNING DEVICES ON THE BOTTOM 2.0 FEET OF EACH RAMP AS SHOWN. SEE DTL. DWG. NO. 608-40 FOR DETECTABLE WARNING DEVICES DETAILS.

ALL DIMENSIONS AND ELEVATIONS ARE FEET UNLESS OTHERWISE NOTED.

ALL CURB AND GUTTER DIMENSIONS ARE ALONG TBC.

CONTRACTOR VERIFY ELEVATIONS IN THE FIELD PRIOR TO CONSTRUCTION.

MATCH EXISTING ELEVATIONS AT ALL JOINTS BETWEEN NEW AND EXISTING CONCRETE. ELEVATIONS SHOWN AT MATCH LINE LOCATIONS ARE APPROXIMATE.

SEE DETAILED DRAWINGS FOR STANDARD SIDEWALK, CURB & GUTTER AND RETAINING WALL DETAILS.

N LAST CHANCE GULCH
& CENTENNIAL PARK DR.
CURB RAMP DETAIL

SCALE: 1" = 5'

SHEET NO.
15

CURB RAMP DETAIL SHEET 2 OF 2

SITE 1

N LAST CHANCE GULCH & MEMORIAL PARK

1" = 5'

PROJECT NAME
SF229 HELENA PEDESTRIAN IMPRV

COUNTY
LEWIS & CLARK

PROJECT ID
HSIP STWD(951)

UPN
10356000

DESIGNED BY
L. SHOQUIST

REVIEWED BY
D. RELPH

CHECKED BY
J. SOLIDAY

12/2025

12/2025

10/2025

10356000SADET001.DWG

MONTANA
Department of Transportation

N-127/U-5811 PLN SET

2/2/2026 9:40 AM

INTERSECTION OF N MONTANA AVE. - BRECKENRIDGE ST.
NORTHEAST CURB RAMP (CAPITOL SIDEWALK PATH)

16

CURB RAMP DETAIL
SITE 2
**N MONTANA AVE. &
BRECKENRIDGE ST.**
1" = 6'

PROJECT NAME
SF229 HELENA PEDESTRIAN IMPRV

LEWIS & CLARK

HSIP STWD(951)

10356000

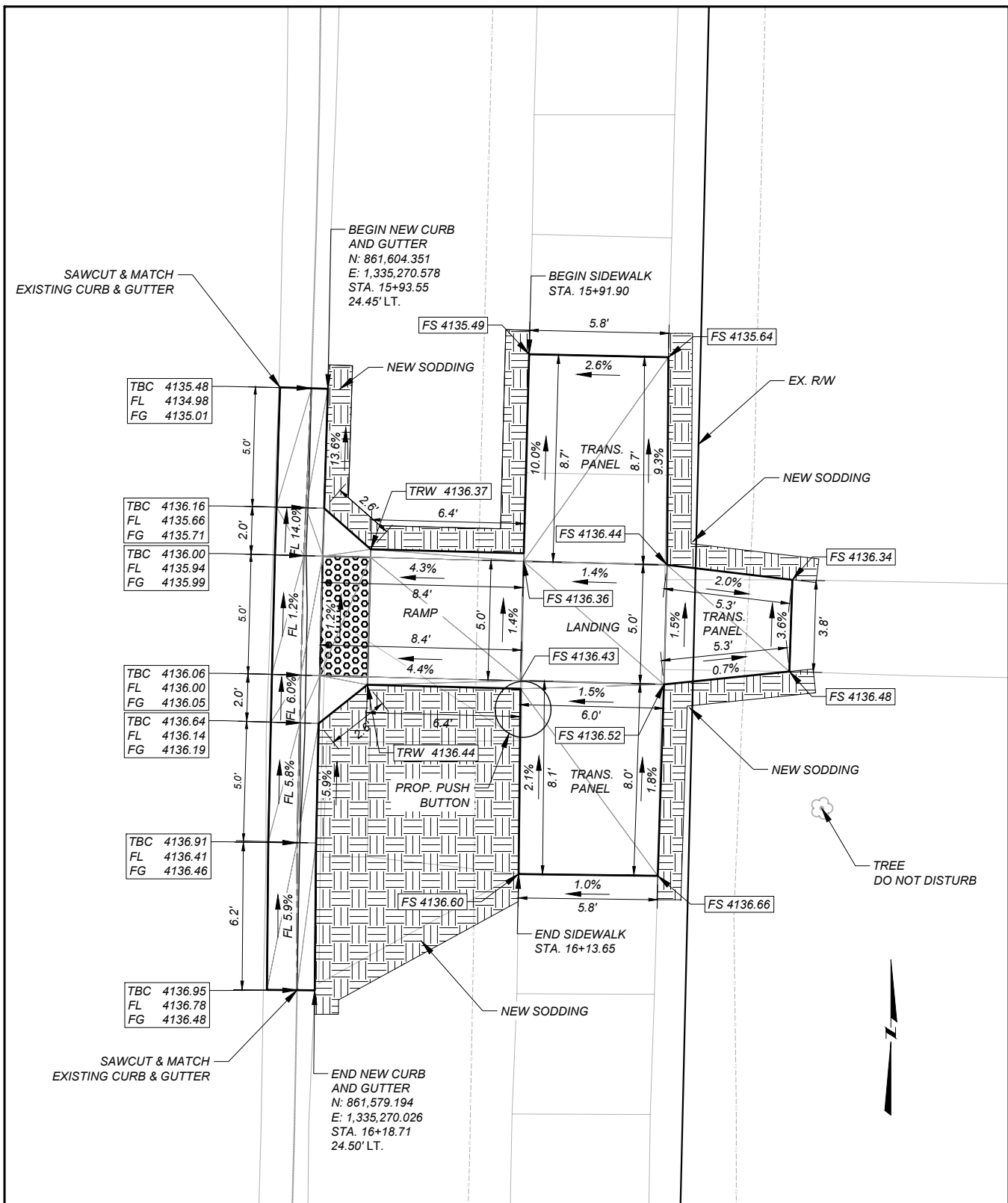
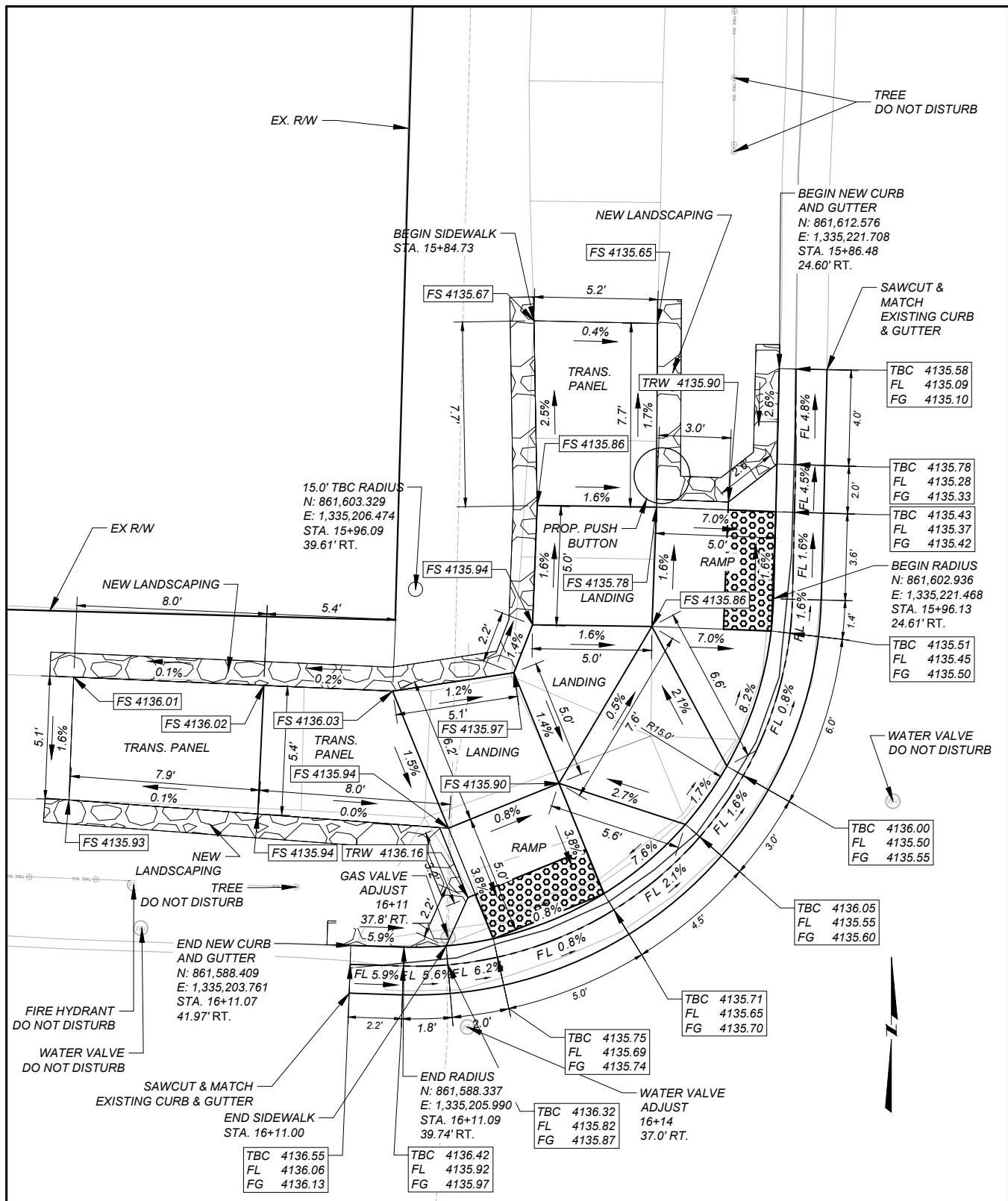
DESIGNED BY	12/2025
L. SHOQUIST	
REVIEWED BY	12/2025
D. RELPH	
CHECKED BY	10/2025
J. SOLIDAY	
10356000SADET002.DWG	



MONTANA
Department of Transportation

N-127/U-5811 PLN SET

12/20/2026 11:58 AM



***N MONTANA AVE.
& BRECKENRIDGE ST.
CURB RAMP DETAIL***

SCALE: 1" = 6'

FS = FINISHED SURFACE ELEV.
TBC = TOP BACK OF CURB ELEV.
FL = FLOW LINE ELEV.
TRW = TOP OF RETAINING WALL ELEV.
FG = FRONT OF GUTTER ELEV.

DETECTABLE WARNING DEVICES

PROVIDE DETECTABLE
WARNING DEVICES ON THE
BOTTOM 2.0 FEET OF EACH
RAMP AS SHOWN. SEE DTL.
DWG. NO. 608-40 FOR
DETECTABLE WARNING
DEVICES DETAILS.

CONTRACTOR VERIFY ELEVATIONS IN THE FIELD PRIOR TO CONSTRUCTION.


SEE DETAILED DRAWINGS FOR STANDARD
SIDEWALK, CURB & GUTTER AND RETAINING
WALL DETAILS.

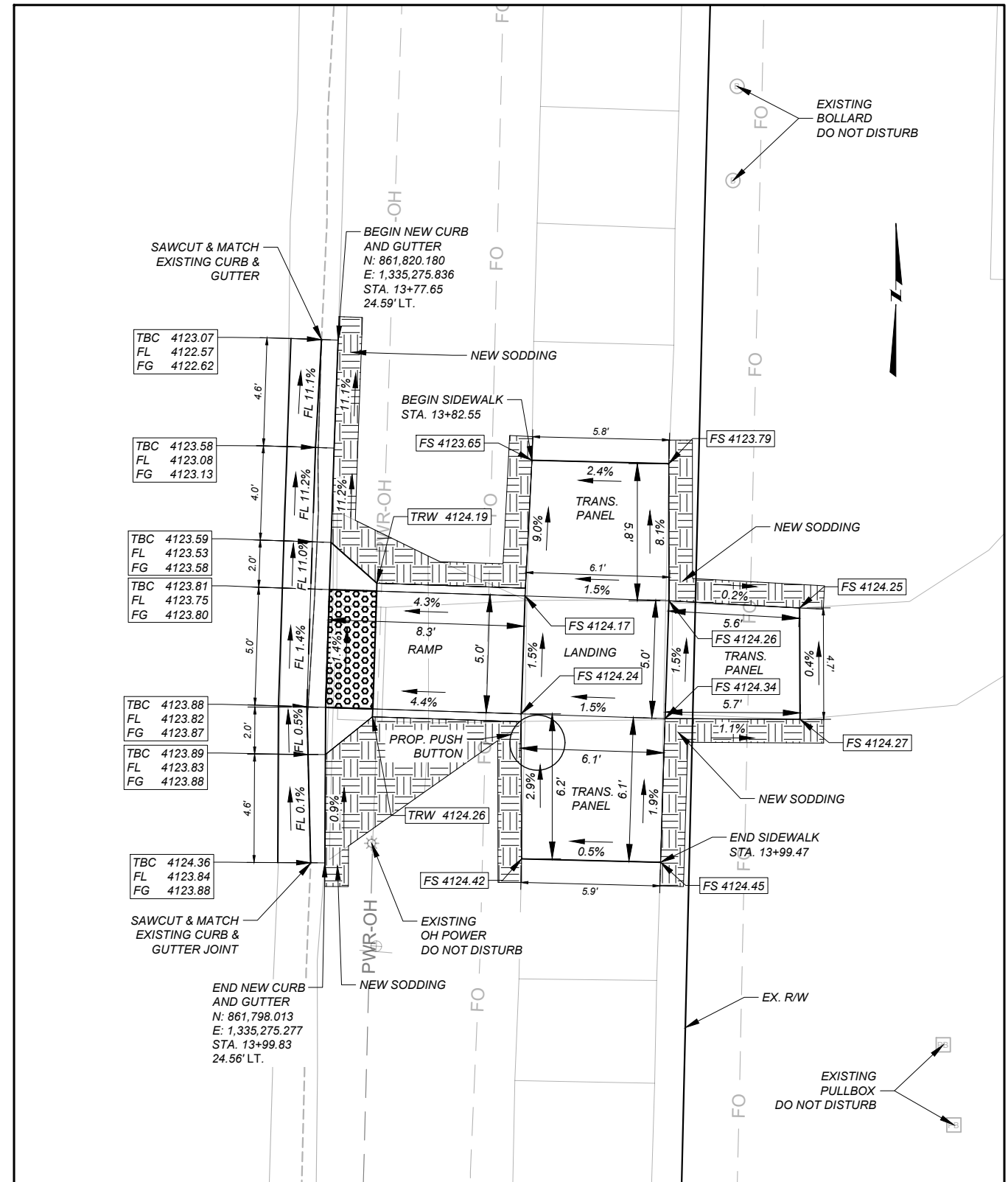


INTERSECTION OF N MONTANA AVE. - 5TH AVE.
SOUTHEAST CORNER (MHP MEMORIAL)

7

10356000


MONTANA
 Department of Transportation
N-127/U-5811 PLN SET
 2/2/2026 11:59 AM



SCALE: 1" = 6'



DETECTABLE WARNING DEVICES


SEE DETAILED DRAWINGS FOR STANDARD
SIDEWALK, CURB & GUTTER AND RETAINING
WALL DETAILS.

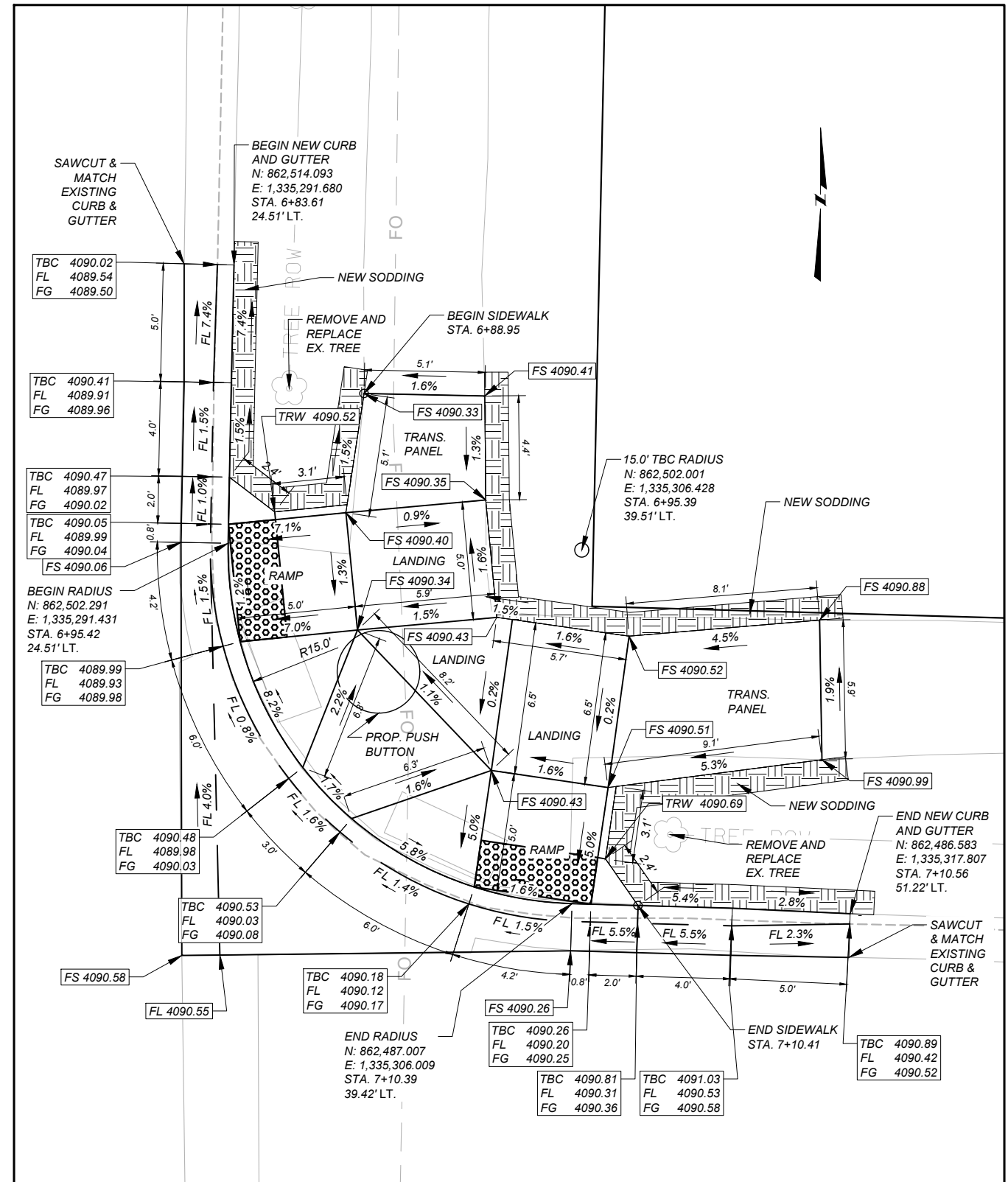
INTERSECTION OF N MONTANA AVE. & 8TH AVE.
NORTHEAST CORNER

8

COUNTY	LEWIS & CLARK
PROJECT ID	HSIP STWD(951)
UPN	10356000

L. SHOQUIST	REVIEWED BY	12/2025
D. RELPH	CHECKED BY	12/2025
J. SOLIDAY		10/2025
10356000SADE/T004.DWG		


MONTANA
 Department of Transportation
N-127/U-5811 PLN SET
 2/2/2026 11:59 AM



SCALE: 1" = 6'



DETECTABLE WARNING DEVICES


SEE DETAILED DRAWINGS FOR STANDARD
SIDEWALK, CURB & GUTTER AND RETAINING
WALL DETAILS.

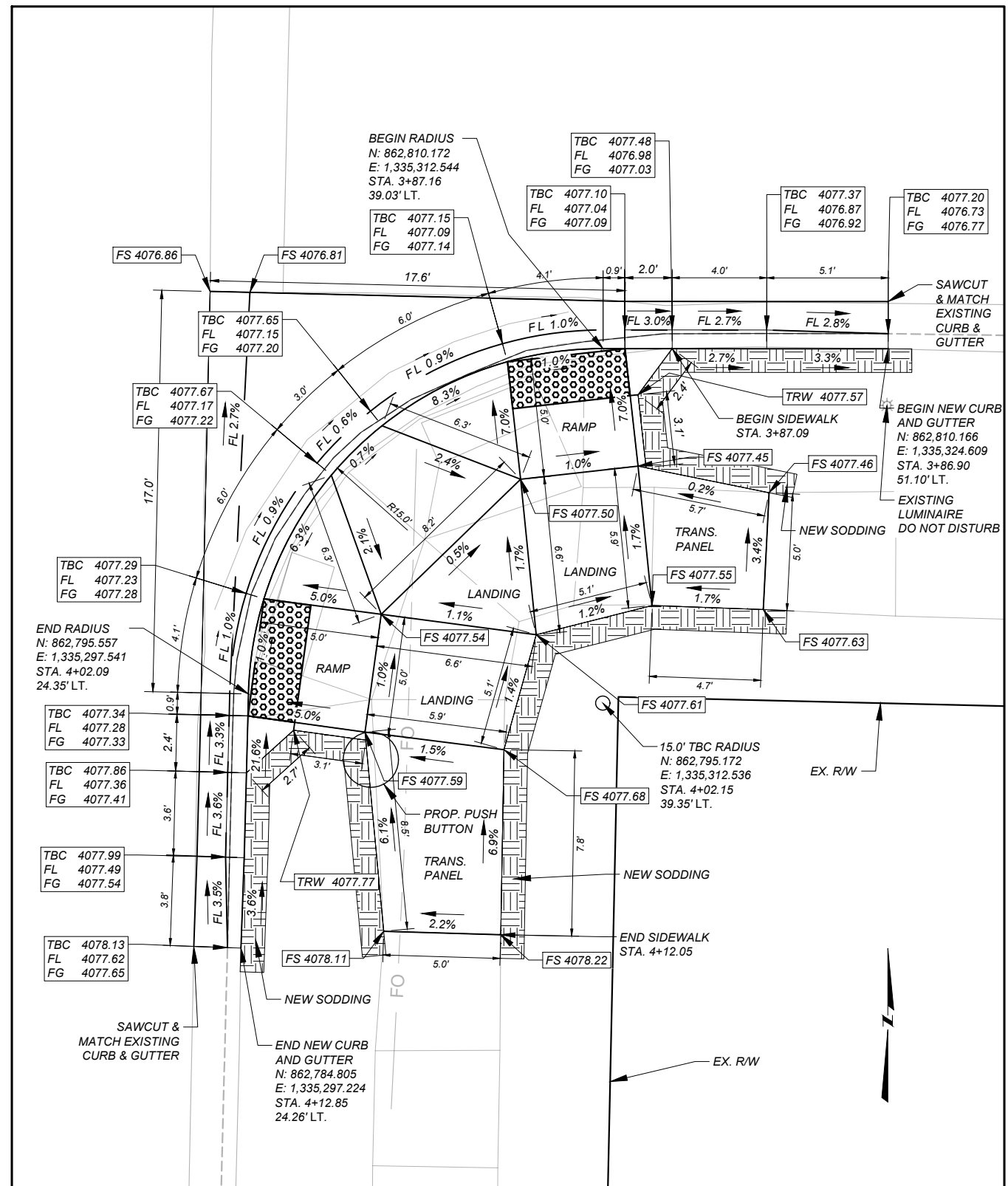
INTERSECTION OF N MONTANA AVE. - 9TH AVE.
SOUTHEAST CORNER

9

COUNTY	LEWIS & CLARK
PROJECT ID	HSIP STWD(951)
UPN	10356000

L. SHOQUIST	REVIEWED BY	12/2025
D. D. RELPH	CHECKED BY	12/2025
J. J. SOLIDAY		10/2025
10356000SADE7005.DWG		


MONTANA
 Department of Transportation
N-127/U-5811 PLN SET
 7/2/2026 11:59 AM



SCALE: 1" = 6'

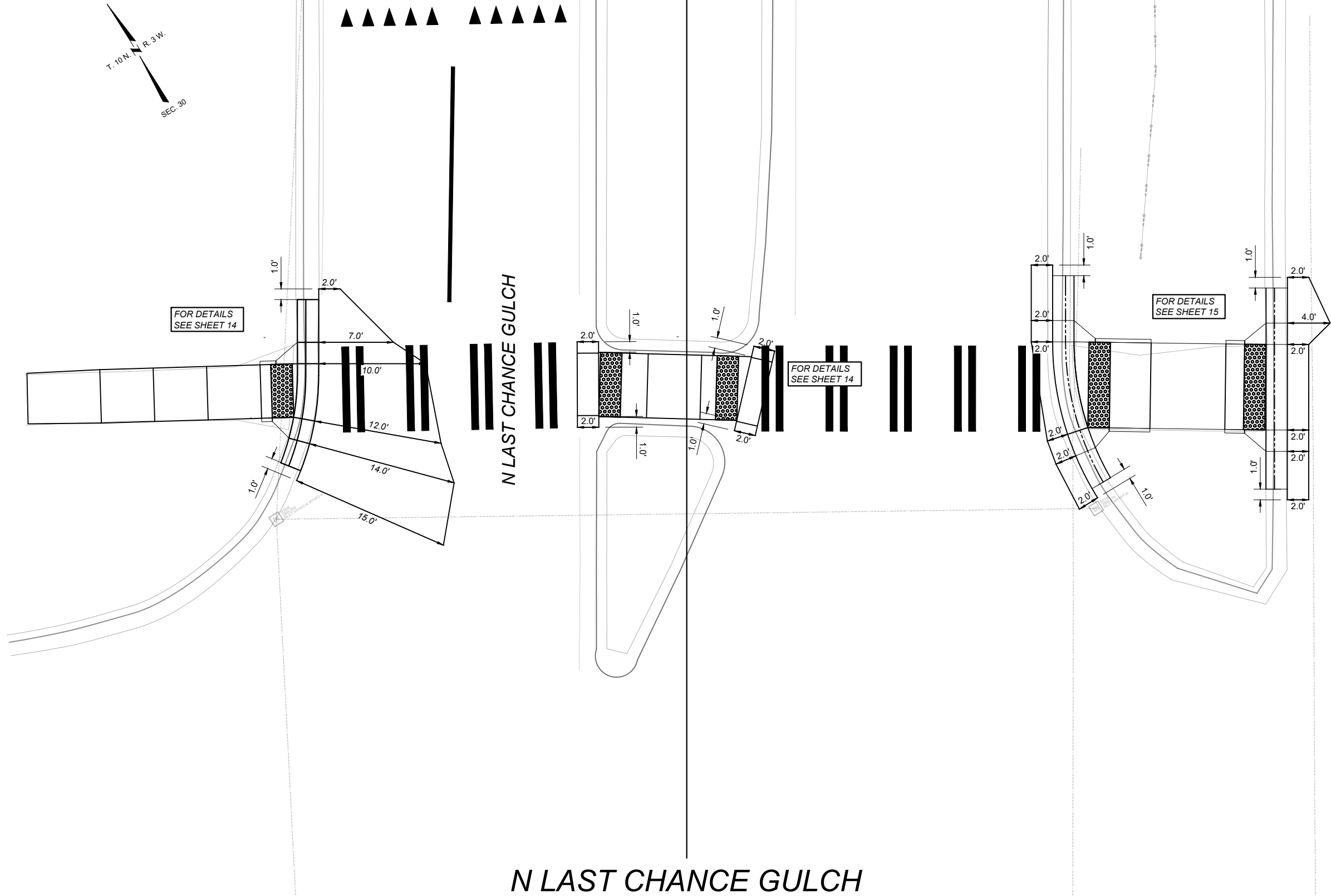



DETECTABLE WARNING DEVICES

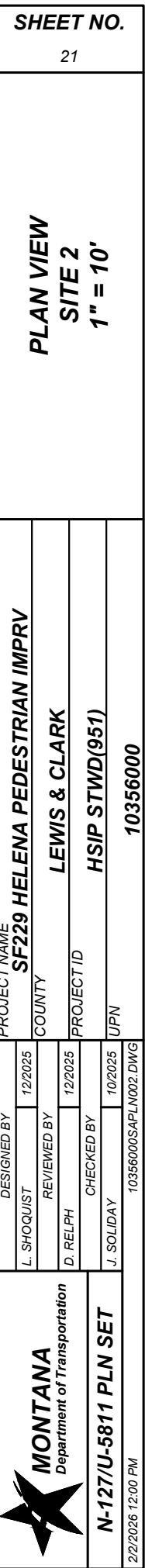
PROVIDE DETECTABLE
WARNING DEVICES ON THE
BOTTOM 2.0 FEET OF EACH
RAMP AS SHOWN. SEE DTL.
DWG. NO. 608-40 FOR
DETECTABLE WARNING
DEVICES DETAILS.

CONTRACTOR VERIFY ELEVATIONS IN THE
FIELD PRIOR TO CONSTRUCTION.

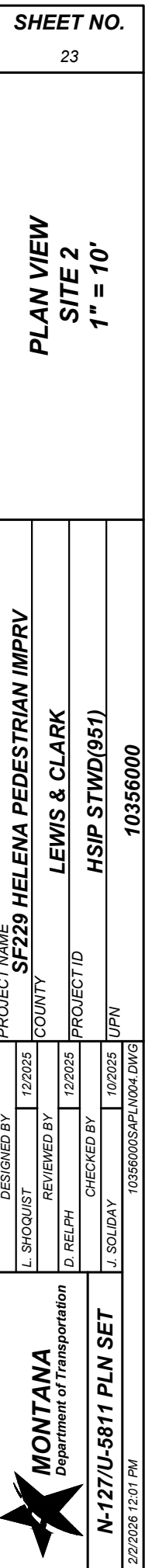
SEE DETAILED DRAWINGS FOR STANDARD
SIDEWALK, CURB & GUTTER AND RETAINING
WALL DETAILS.

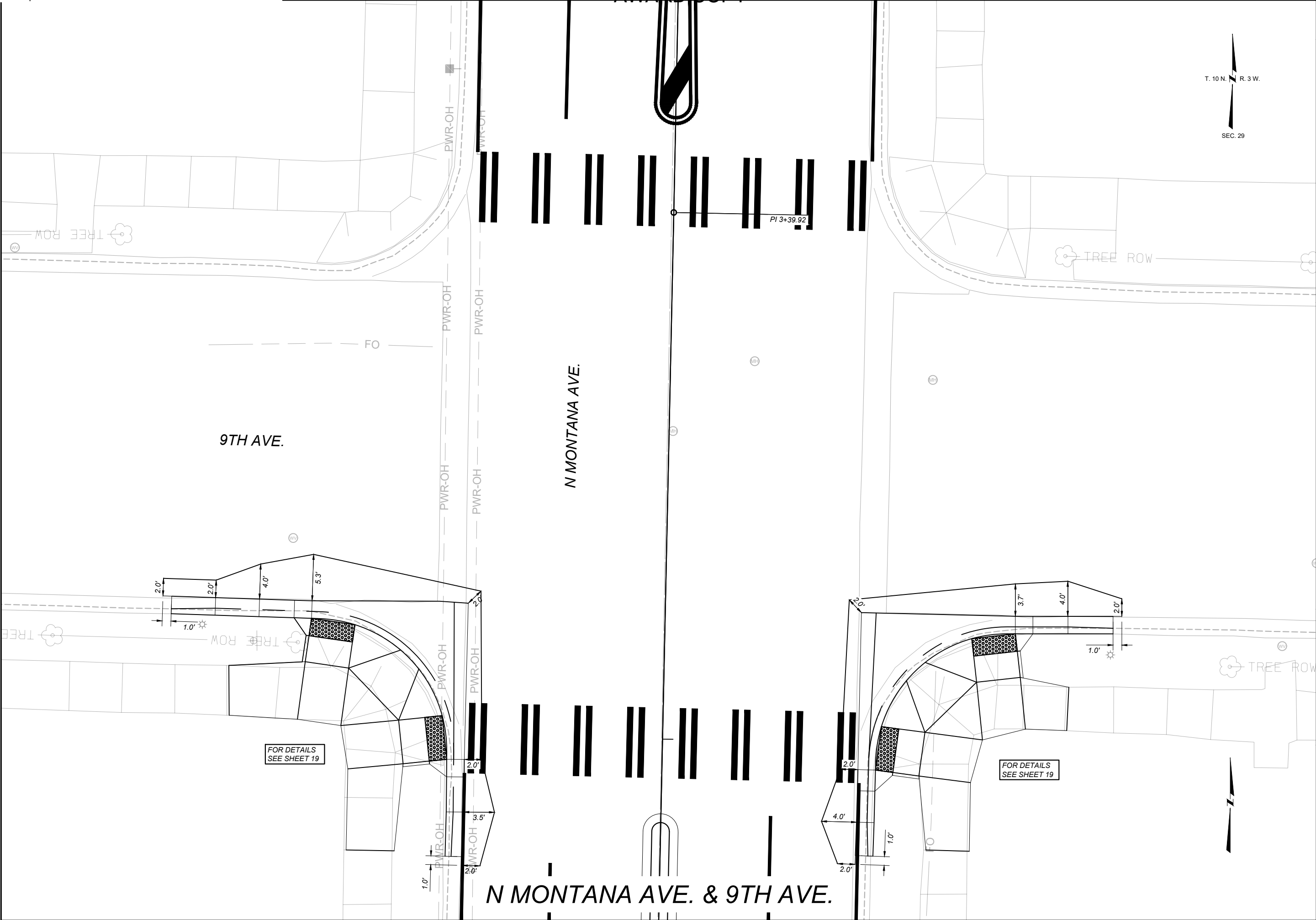



SHEET NO.		20	
PLAN VIEW		SITE 1	
		1" = 50'	
 N-127/U-5811 PLN SET 1/27/2026 9:42 AM	DESIGNED BY	PROJECT NAME	
	L. SHOQUIST	SF229 HELENA PEDESTRIAN IMPRV	
	REVIEWED BY	COUNTY	
	D. RELPH	LEWIS & CLARK	
	CHECKED BY	PROJECT ID	
	J. SOLIDAY	HSIP STWD(951)	
		UPN	
		10356000SAPLN001.DWG	
		10356000	









 MONTANA Department of Transportation		PROJECT NAME SF229 HELENA PEDESTRIAN IMPRV		
		COUNTY LEWIS & CLARK		
N-127/U-5811 PLN SET		PROJECT ID HSIP STWD(951)		
		UPN 10356000		
DESIGNED BY L. SHOQUIST	12/2025	PROJECT ID HSIP STWD(951)		UPN 10356000
REVIEWED BY D. RELPH	12/2025	PROJECT ID HSIP STWD(951)		UPN 10356000
CHECKED BY J. SOLIDAY	10/2025	PROJECT ID HSIP STWD(951)		UPN 10356000
		10356000SAPLN005.DWG		

SHEET NO.
24

PLAN VIEW
SITE 2
1" = 10'

NOTES AND ABBREVIATIONS:

MOUNTING HEIGHT REQUIREMENTS: MOUNTING HEIGHTS SHOWN REFER TO THE BOTTOM OF THE MAJOR PANEL. SEE DETAILED DRAWINGS 619-00 & 619-08

SEE LOCATION AND SPECIFICATION SHEETS FOR PORTIONS OF PROJECT NOT INCLUDED WITHIN SIGNING PLAN SHEETS.

SIGN POSTS SYMBOLS SHOWN ARE FOR REFERENCE ONLY TO SHOW EXISTING SIGNS THAT REQUIRE NO ACTION.

SIGNING AND PAVEMENT MARKING LOCATIONS ARE APPROXIMATE. PROJECT MANAGER TO FIELD ADJUST AS NECESSARY.

ADOPT A HIGHWAY: IF SIGNS N7-1/N7-1P EXIST, CONTRACTOR WILL CONFIRM THAT THE GROUP NAME ON THE SIGN(S) EXISTING AT THE TIME OF CONSTRUCTION CORRESPONDS TO THE GROUP NAME ON THE SIGN(S) SHOWN IN PLANS. IF NAME IS DIFFERENT, PROJECT MANAGER WILL CONTACT TRAFFIC & SAFETY BUREAU SIGNING SECTION WITH THE CORRECT NAME AND A NEW SIGN DESIGN WILL BE PROVIDED.

BBR = BACKBRACING REQUIRED:

- FOR WOOD POLE SEE DET. DWG 619-22
- FOR STEEL POST 2" X 2" X 1/4" REQUIRED. SEE DET. DWG 619-16
- FOR STRUCTURAL STEEL POST 2 3/4" X 2 3/8" EXTRUDED "T" SECTION BACKBRACE REQUIRED. SEE DET. DWG 619-19
- FOR CANTILEVER POST, SEE DET. DWG 619-18
- FOR GUIDE SIGN PANELS, USE EXTRUDED "T" SECTION BACKBRACE. SEE DET. DWG 619-04

USE HARDWARE MEETING REQUIREMENTS OF SECTION 704

RSFO = REPLACE SIGN FACE ONLY

FY = FLUORESCENT YELLOW SHEETING REQUIRED

FYG = FLUORESCENT YELLOW-GREEN SHEETING REQUIRED

1 AIR = 1 OR 2 ANGLE IRONS REQUIRED

2 AIR = 2 1/2" x 2 1/2" x 3/8" x 6'-4" (37 lbs.EACH) IF Y POST DOES NOT REACH TOP 6" OF PANEL, 2 ANGLE IRONS REQUIRED.

MBB = MOUNT BACK TO BACK

CAM = CHEVRON ANGLE MOUNT (SEE DET. DWG 619-24)

CBR = CONCRETE BARRIER RAIL

✕ = STANDARD BREAKAWAY DEVICE:

- FOR WOOD POST SEE DETAILED DRAWING 619-20.
- FOR STRUCTURAL STEEL SEE DETAILED DRAWING 619-13.

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

★ = TELESKOPED SQUARE TUBES (2-1/4" & 2-1/2") WITH SLIP BASE BREAKAWAY REQUIRED. MOUNTED IN HEAVY DUTY STUB.

■ = FRANGIBLE SIGN POST. BREAKAWAY DEVICE REQUIRED.

BGR = BEHIND GUARDRAIL

SF229 HELENA PEDESTRIAN IMPRV.
LAST CHANCE GULCH & MONTANA AVE.

SUMMARY SIGNING & DELINEATION QUANTITIES		
MATERIAL	TOTAL	UNIT
SIGNS-ALUM REFL SHEET XI	840.5	SQFT
SIGNS-ALUM SHEET INCR XI	44.0	SQFT
REMOVE SIGN	61	EACH
POSTS-TUBULAR STEEL-SQ-PERF	2,402	LB
SQ TUBLR SLIP BASE BKWY-3 IN (76MM)	31	EACH
DELINEATOR-FLEX SURF MTD YLW	17	EACH
RETRO-REFL STRIP 4 X 72	8	EACH

DELINEATION SPECIFICATIONS		
SYMBOL	DESIGN	TOTAL
▲	Yellow FLEX SURF MTD	17

SHEET NO.
S1

SIGNING NOTES AND
SUMMARY FRAMES

PROJECT NAME SF229 HELENA PEDESTRIAN IMPRV	COUNTY LEWIS AND CLARK	PROJECT ID HSIP STWD(951)	UPN 10356001
DESIGNED BY S.MORANO	08/2025	REVIEWED BY	CHECKED BY N.STYREN
MONTANA Department of Transportation		SIGNING PLANS	
		10356000SISUM007.DWG	
		1/28/2026 7:40 PM	

AWARD COPY

LAST CHANCE GULCH

SHEET NO.

S2

SIGN LOCATIONS AND SPECIFICATIONS

PROJECT NAME
SF229 HELENA PEDESTRIAN IMPRV

COUNTY

LEWIS AND CLARK

HSIP STWD(951)

10356001

PROJECT ID

UPN

DESIGNED BY

08/2025

REVIEWED BY

08/2025

CHECKED BY

10356000SIJUN007.DWG

MONTANA
Department of Transportation

SIGNING PLANS

1/28/2026 7:40 PM

SIGN LOCATION			PANEL SPECIFICATIONS					SIGN ASSEMBLY SPECIFICATIONS										SIGN ASSEMBLY QUANTITIES												ADDITIONAL INFORMATION							
STATION / R.P.	LFT / MDN / RGT / OH	ACTION	SIGN NO. (MUTCD / MT)	PANEL SIZE (INCHES)			FY OR FYG	BACKBRACING REQ'D / 1 OR 2 ANGLE IRONS REQ'D	MOUNT BACK TO BACK / CHEVRON ANGLE MOUNT	FEET		CLEARANCE / OFFSET (SHOULDER TO EDGE OF SIGN)	TYPE OF SUPPORT	SUPPORT SPACING	MOUNTING HEIGHT	FOUNDATION DEPTH	FEET			CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)				# OF BREAKAWAYS	REMOVE		RESET		SIGN IMAGE	REMARKS
				W	X	H				SUPPORT LENGTH (ESTIMATED)	X						Y	Z	SHEET ALUMINUM				SHEET ALUMINUM INCREMENT	4" TOP DIA.	5" TOP DIA.	ROUND TUBULAR	SQUARE TUBULAR	STRUCTURAL STEEL	"U" POST	SIGN		GUIDE	SIGN	GUIDE			
2+37.56	L	REPLACE	M1-4	24	X	24					2.0	2.5" Tubular Stl-Square		7.0	3.0	12.0				▲			4.0					61			1	1				REPLACE	
			M6-4P	21	X	15																	2.2														
2+55.28	R	REPLACE	D3-1 (2x)	12	X	36			MBB		2.0	2.5" Tubular Stl-Square		7.0	1.6	12.0				▲			6.0					60			1	1				REPLACE	
			R3-2	24	X	24																	4.0														
2+83.22	R	RSFO	R1-1	30	X	30																	5.2								1				RSFO		
3+25.19	L	RSFO	R3-8b	48	X	30																	10.0								1				RSFO		
3+31.17	R	RSFO	W11-2	36	X	36	FY																9.0								1				RSFO		
			W16-2aP	30	X	18	FY																3.8												REPLACE 1 BLOCK PLAQUE WITH W16-2 300 FT		
4+66.10	L	RSFO	D1-3	96	X	66																		44.0								1				RSFO/ G127-a	
5+74.60	L	RSFO	M2-1P	21	X	15																	2.2								1				RSFO		
			M1-4	24	X	24																	4.0												RSFO		
6+37.20	R	RSFO	R2-1	30	X	36																	7.5								1				RSFO		
6+38.93	L	RSFO	R2-1	30	X	36																	7.5								1				RSFO		

SIGN LOCATION			PANEL SPECIFICATIONS					SIGN ASSEMBLY SPECIFICATIONS										SIGN ASSEMBLY QUANTITIES													ADDITIONAL INFORMATION					
STATION / R.P.	LFT / MDN / RGT / OH	ACTION	SIGN NO. (MUTCD / MT)	PANEL SIZE (INCHES)			FY OR FYG	BACKBRACING REQ'D / 1 OR 2 ANGLE IRONS REQ'D	MOUNT BACK TO BACK / CHEVRON ANGLE MOUNT	FEET CLEARANCE / OFFSET (SHOULDER TO EDGE OF SIGN)	TYPE OF SUPPORT	SUPPORT SPACING	FEET						CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)				# OF BREAKAWAYS	REMOVE		RESET		SIGN IMAGE	REMARKS
				W	X	H							MOUNTING HEIGHT	FOUNDATION DEPTH	SUPPORT LENGTH (ESTIMATED)			SHEET ALUMINUM				SHEET ALUMINUM INCREMENT	4" TOP DIA.	5" TOP DIA.	ROUND TUBULAR	SQUARE TUBULAR	STRUCTURAL STEEL	"U" POST	SIGN		GUIDE	SIGN	GUIDE			
															X	Y	Z																			
7+24.88	R	NEW	R1-5L	36	X	36				2.0	2.25" 2.5" Tubular Stl-Square		7.0	3.0	10.0				★			9.0					60			1					NEW	
7+48.98	L	RSFO	R1-1	30	X	30															5.2								1					RSFO		
7+50.22	L	NEW	W11-2	30	X	30	FY			2.0	2.5" Tubular Stl-Square		7.2	3.6	12.0				▲			6.3					61			1					NEW	
			W16-6PL	24	X	18	FY														3.0															
8+02.46	R	RSFO	R1-1	30	X	30															5.2									1					RSFO	
8+12.28	R	NEW	W11-2	36	X	36	FY				**			3.0							9.0													** NEW WITH RRFB SEE ELECTRICAL PLANS		
			W16-7PL	30	X	21	FY														4.4															
8+20.55	L	NEW	W11-2	36	X	36	FY				**			3.0							9.0													** NEW WITH RRFB SEE ELECTRICAL PLANS		
			W16-7PL	30	X	21	FY														4.4															

SHEET NO.
S3

SIGN LOCATIONS AND SPECIFICATIONS

PROJECT NAME
SF229 HELENA PEDESTRIAN IMPRV

COUNTY
LEWIS AND CLARK

PROJECT ID
HSIP STWD(951)

UPN
10356001

DESIGNED BY
S.MORANO

08/2025

REVIEWED BY

CHECKED BY
N.STYREN












08/2025

10356000SIJUN007.DWG

MONTANA
Department of Transportation

SIGNING PLANS

1/28/2026 7:40 PM

SIGN LOCATION			PANEL SPECIFICATIONS				SIGN ASSEMBLY SPECIFICATIONS										SIGN ASSEMBLY QUANTITIES											ADDITIONAL INFORMATION					
STATION / R.P.	LFT / MDN / RGT / OH	ACTION	SIGN NO. (MUTCD / MT)	PANEL SIZE (INCHES)			FY OR FYG	BACKBRACING REQ'D / 1 OR 2 ANGLE IRONS REQ'D	MOUNT BACK TO BACK / CHEVRON ANGLE MOUNT	FEET CLEARANCE / OFFSET (SHOULDER TO EDGE OF SIGN)	TYPE OF SUPPORT	FEET				CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)				# OF BREAKAWAYS	REMOVE		RESET		SIGN IMAGE	REMARKS
				W	X	H						SUPPORT SPACING	MOUNTING HEIGHT	FOUNDATION DEPTH	SUPPORT LENGTH (ESTIMATED)				ROUND TUBULAR	SQUARE TUBULAR	STRUCTURAL STEEL	"U" POST	SIGN	GUIDE	SIGN	GUIDE							
															X													Y	Z				
8+28.39	M	NEW	W11-2	36	X	36	FY				**							9.0														** NEW WITH RRFB SEE ELECTRICAL PLANS	
			W16-7PR	30	X	21	FY											4.4															
			W11-2	36	X	36	FY											9.0															
			W16-7PR	30	X	21	FY											4.4															
8+56.24	L	NEW	R1-5R	36	X	36				2.0	2.25" 2.5" Tubular Stl-Square		7.0	3.0	10.0		★	9.0					60			1						NEW	
9+10.01	R	RSFO	R3-17	24	X	18												3.0								1						RSFO	
11+30.32	L	RSFO	W11-2	36	X	36	FY											9.0								1						RSFO	
			W16-2P	30	X	24	FY											5.0														REPLACE 1 BLOCK PLAQUE WITH W16-2 300 FT	
11+93.95	R	RSFO	R1-1	30	X	30												5.2								1						RSFO	
11+87.65	L	RSFO	R3-17	24	X	18												3.0								1							
			R3-17bP	24	X	9												1.5															

SHEET NO.
S4

SIGN LOCATIONS AND SPECIFICATIONS

PROJECT NAME
SF229 HELENA PEDESTRIAN IMPRV

COUNTY
LEWIS AND CLARK

PROJECT ID
HSIP STWD(951)

UPN
10356001

DESIGNED BY
S.MORANO

08/2025

REVIEWED BY

CHECKED BY
N.STYREN

08/2025














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MONTANA
Department of Transportation

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MONTANA AVE.

SIGN LOCATION			PANEL SPECIFICATIONS					SIGN ASSEMBLY SPECIFICATIONS										SIGN ASSEMBLY QUANTITIES													ADDITIONAL INFORMATION					
STATION / R.P.	LFT / MDN / RGT / OH	ACTION	SIGN NO. (MUTCD / MT)	PANEL SIZE (INCHES)			FY OR FYG	BACKBRACING REQ'D / 1 OR 2 ANGLE IRONS REQ'D	MOUNT BACK TO BACK / CHEVRON ANGLE MOUNT	FEET CLEARANCE / OFFSET (SHOULDER TO EDGE OF SIGN)	TYPE OF SUPPORT	SUPPORT SPACING	FEET				CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)				# OF BREAKAWAYS	REMOVE		RESET		SIGN IMAGE	REMARKS		
				W	X	H							SUPPORT SPACING	MOUNTING HEIGHT	FOUNDATION DEPTH	SUPPORT LENGTH (ESTIMATED)				SHEET ALUMINUM	SHEET ALUMINUM INCREMENT	4" TOP DIA.	5" TOP DIA.	ROUND TUBULAR	SQUARE TUBULAR	STRUCTURAL STEEL	"U" POST		SIGN	GUIDE	SIGN	GUIDE				
				X	Y	Z																														
0+93.20	R	RSFO	R7-1a	12	X	18													1.5														RSFO			
1+37.74	R	NEW	W11-2	36	X	36	FY		2.0	2.25" 2.5" Tubular Stl-Square			7.1	3.0	12.6		★		9.0							62			1					NEW		
			W16-9P	24	X	12	FY												2.0																	
2+28.94	R	RSFO	R2-1	30	X	36													7.5										1					RSFO		
2+40.62	L	RSFO	R3-8ttr	30	X	36													7.5										1					RSFO		
2+60.32	L	RSFO	R7-1a	12	X	18													1.5										1					RSFO		
3+00.96	R	NEW	R1-5L	36	X	36			2.0	2.25" 2.5" Tubular Stl-Square			7.1	3.0	10.0		★		9.0							82			1					NEW		
3+29.50	R	NEW	W11-2	36	X	36	FY		2.0	2.25" 2.5" Tubular Stl-Square			7.1	3.0	11.9		★		9.0								91		1					NEW		
			W16-7PL	30	X	21	FY												4.4																	
3+36.13	L	NEW	W11-2	36	X	36	FY		2.0	2.25" 2.5" Tubular Stl-Square			7.0	3.0	11.9		★		9.0								91		1					NEW		
			W16-7PL	30	X	21	FY												4.4																	
3+41.70	L	RSFO	R1-1	30	X	30													5.2										1					RSFO		
3+41.80	R	RSFO	D11-1	24	X	18													3.0										1					RSFO		

SHEET NO.
S5

SIGN LOCATIONS AND SPECIFICATIONS

PROJECT NAME
SF229 HELENA PEDESTRIAN IMPRV

COUNTY
LEWIS AND CLARK

PROJECT ID
HSIP STWD(951)

UPN
10356001

DESIGNED BY
S.MORANO

REVIEWED BY
















CHECKED BY
N.STYREN

DATE
08/2025














MONTANA
Department of Transportation

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SIGN LOCATION			PANEL SPECIFICATIONS				SIGN ASSEMBLY SPECIFICATIONS										SIGN ASSEMBLY QUANTITIES												ADDITIONAL INFORMATION		SHEET NO.			
STATION / R.P.	LFT / MDN / RGT / OH	ACTION	SIGN NO. (MUTCD / MT)	PANEL SIZE (INCHES)			FY OR FYG	BACKBRACING REQ'D / 1 OR 2 ANGLE IRONS REQ'D MOUNT BACK TO BACK / CHEVRON ANGLE MOUNT	FEET CLEARANCE / OFFSET (SHOULDER TO EDGE OF SIGN)	TYPE OF SUPPORT	FEET				CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)				# OF BREAKAWAYS	REMOVE		RESET		SIGN IMAGE	REMARKS	SIGN LOCATIONS AND SPECIFICATIONS	PROJECT NAME SF229 HELENA PEDESTRIAN IMPRV COUNTY LEWIS AND CLARK PROJECT ID HSIP STWD(951) UPN 10356001
				W	X	H					SUPPORT SPACING	MOUNTING HEIGHT	FOUNDATION DEPTH	SUPPORT LENGTH (ESTIMATED)				ROUND TUBULAR	SQUARE TUBULAR	STRUCTURAL STEEL	"U" POST	SIGN	GUIDE	SIGN	GUIDE									
														X													Y	Z						
3+90.53	R	REPLACE	D3-1 (2x)	30	X	12			MBB	2.0	2.25" 2.5" Tubular Stl-Square		7.0	3.0	11.7			★					60			1	1				REPLACE			
			D3-1 (2x)	36	X	12			MBB											6.0														
			R1-1	30	X	30														5.2											RETRO-REFL STRIP			
			R1-1	30	X	30														5.2														
3+91.14	L	RSFO	D11-1	24	X	18														3.0						1					RSFO			
3+95.03	L	REPLACE	D3-1 (2x)	30	X	12				2.0	2.25" 2.5" Tubular Stl-Square		7.0	3.0	11.4			★								1	1				REPLACE			
			D3-1 (2x)	36	X	12														6.0														
3+98.02	R	NEW	W11-2	36	X	36	FY				**									9.0											** NEW WITH RRFB SEE ELECTRICAL PLANS			
			W16-7PL	30	X	21	FY													4.4														
4+04.78	L	NEW	W11-2	36	X	36	FY				**									9.0											** NEW WITH RRFB SEE ELECTRICAL PLANS			
			W16-7PL	30	X	21	FY													4.4														
4+10.48	M	NEW	W11-2	30	X	30	FY				**									6.3											** NEW WITH RRFB SEE ELECTRICAL PLANS			
			W16-7PR	30	X	18	FY													3.8														
			W11-2	30	X	30	FY													6.3														
			W16-7PR	30	X	18	FY													3.8														



SIGN LOCATION			PANEL SPECIFICATIONS					SIGN ASSEMBLY SPECIFICATIONS										SIGN ASSEMBLY QUANTITIES												ADDITIONAL INFORMATION						
STATION / R.P.	LFT / MDN / RGT / OH	ACTION	SIGN NO. (MUTCD / MT)	PANEL SIZE (INCHES)			FY OR FYG	BACKBRACING REQ'D / 1 OR 2 ANGLE IRONS REQ'D	MOUNT BACK TO BACK / CHEVRON ANGLE MOUNT	FEET		TYPE OF SUPPORT	SUPPORT SPACING	MOUNTING HEIGHT	FOUNDATION DEPTH	FEET			CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)				# OF BREAKAWAYS	REMOVE		RESET		SIGN IMAGE	REMARKS
				W	X	H				SUPPORT LENGTH (ESTIMATED)	X					Y	Z	SHEET ALUMINUM				SHEET ALUMINUM INCREMENT	4" TOP DIA.	5" TOP DIA.	ROUND TUBULAR	SQUARE TUBULAR	STRUCTURAL STEEL	"U" POST	SIGN		GUIDE	SIGN	GUIDE			
4+13.30	R	RSFO	R7-1	12	X	18															1.5									1					RSFO	
4+34.71	L	NEW	R1-5L	36	X	36				2.0	2.25" 2.5" Tubular Stl-Square		7.0	3.0	10.0				★			9.0					82			1					NEW	
4+96.64	R	RSFO	R7-1a	12	X	18															1.5									1					RSFO	
5+06.53	L	RSFO	R7-1a	12	X	18															1.5									1					RSFO	
6+58.50	R	NEW	R1-5L	36	X	36				2.0	2.25" 2.5" Tubular Stl-Square		7.0	3.0	10.0				★			9.0					82			1					NEW	
6+87.42	M	NEW	W11-2	30	X	30	FY				**										6.3														** NEW WITH RRFB SEE ELECTRICAL PLANS	
			W16-7PR	30	X	18	FY														3.8															
			W11-2	30	X	30	FY														6.3															
			W16-7PR	30	X	18	FY														3.8															
6+93.29	R	NEW	W11-2	36	X	36	FY				**										9.0														** NEW WITH RRFB SEE ELECTRICAL PLANS	
			W16-7PL	30	X	21	FY														4.4															
7+00.54	L	NEW	W11-2	36	X	36	FY				**										9.0														** NEW WITH RRFB SEE ELECTRICAL PLANS	
			W16-7PL	30	X	21	FY														4.4															

SHEET NO.
S7

SIGN LOCATIONS AND SPECIFICATIONS

PROJECT NAME
SF229 HELENA PEDESTRIAN IMPRV

COUNTY
LEWIS AND CLARK

PROJECT ID
HSIP STWD(951)

UPN
10356001

DESIGNED BY
S.MORANO

REVIEWED BY
















CHECKED BY
N.STYREN

DATE
08/2025

MONTANA
Department of Transportation

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SIGN LOCATION			PANEL SPECIFICATIONS				SIGN ASSEMBLY SPECIFICATIONS										SIGN ASSEMBLY QUANTITIES												ADDITIONAL INFORMATION		SHEET NO.					
STATION / R.P.	LFT / MDN / RGT / OH	ACTION	SIGN NO. (MUTCD / MT)	PANEL SIZE (INCHES)			FY OR FYG	BACKBRACING REQ'D / 1 OR 2 ANGLE IRONS REQ'D	MOUNT BACK TO BACK / CHEVRON ANGLE MOUNT	CLEARANCE / OFFSET (SHOULDER TO EDGE OF SIGN)	FEET	TYPE OF SUPPORT	SUPPORT SPACING	MOUNTING HEIGHT	FOUNDATION DEPTH	FEET			CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)				# OF BREAKAWAYS	REMOVE		RESET		SIGN IMAGE	REMARKS
				W	X	H										SUPPORT LENGTH (ESTIMATED)	SHEET ALUMINUM	SHEET ALUMINUM INCREMENT				4" TOP DIA.	5" TOP DIA.	ROUND TUBULAR	SQUARE TUBULAR	STRUCTURAL STEEL	"U" POST	SIGN	GUIDE		SIGN	GUIDE				
																																	X	Y		
7+03.90	L	REPLACE	D3-1 (2x)	30	X	12			MBB	2.0	2.25" 2.5" Tubular Stl-Square		7.0	3.0	13.2				★			5.0					60			1	1				REPLACE	
			D3-1 (2x)	36	X	12			MBB												6.0															
			R1-1	30	X	30															5.2															
7+58.80	R	REPLACE	D3-1 (2x)	30	X	12			MBB	2.0	2.25" 2.5" Tubular Stl-Square		7.0	3.0	13.2				★			5.0					60			1	1				REPLACE	
			D3-1 (2x)	36	X	12			MBB												6.0															
			R1-1	30	X	30															5.2															
7+65.23	R	NEW	W11-2	36	X	36	FY			2.0	2.25" 2.5" Tubular Stl-Square		7.0	3.0	11.9				★			9.0					91							NEW		
			W16-7PL	30	X	21	FY														4.4															
7+72.21	L	NEW	W11-2	36	X	36	FY			2.0	2.25" 2.5" Tubular Stl-Square		7.0	3.0	11.9				★			9.0					91							NEW		
			W16-7PL	30	X	21	FY														4.4															
7+81.10	R	RSFO	R7-1a	12	X	18															1.5								1					RSFO		
8+03.65	L	NEW	R1-5L	36	X	36				2.0	2.25" 2.5" Tubular Stl-Square		7.0	3.0	10.0				★			9.0					82			1					NEW	
8+64.70	L	RSFO	R7-1a	12	X	18															1.5								1					RSFO		
8+76.72	R	RSFO	R7-1a	12	X	18															1.5								1					RSFO		
9+47.45	R	RSFO	R7-1a	12	X	18															1.5								1					RSFO		

PROJECT NAME
SF229 HELENA PEDESTRIAN IMPRV

COUNTY
LEWIS AND CLARK

PROJECT ID
HSIP STWD(951)

UPN
10356001

DESIGNED BY
S.MORANO

REVIEWED BY

CHECKED BY
N.STYREN

08/2025

08/2025

















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MONTANA

Department of Transportation

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SIGN LOCATION			PANEL SPECIFICATIONS				SIGN ASSEMBLY SPECIFICATIONS										SIGN ASSEMBLY QUANTITIES												ADDITIONAL INFORMATION				
STATION / R.P.	LFT / MDN / RGT / OH	ACTION	SIGN NO. (MUTCD / MT)	PANEL SIZE (INCHES)			FY OR FYG	BACKBRACING REQ'D / 1 OR 2 ANGLE IRONS REQ'D	MOUNT BACK TO BACK / CHEVRON ANGLE MOUNT	FEET CLEARANCE / OFFSET (SHOULDER TO EDGE OF SIGN)	TYPE OF SUPPORT	FEET				CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)				# OF BREAKAWAYS	REMOVE		RESET		SIGN IMAGE	REMARKS
				W	X	H						SUPPORT SPACING	MOUNTING HEIGHT	FOUNDATION DEPTH	SUPPORT LENGTH (ESTIMATED)				SHEET ALUMINUM	SHEET ALUMINUM INCREMENT	4" TOP DIA.	5" TOP DIA.	ROUND TUBULAR	SQUARE TUBULAR	STRUCTURAL STEEL	"U" POST		SIGN	GUIDE	SIGN	GUIDE		
10+47.15	R	REPLACE	R1-1	30	X	30				2.0	2.25" 2.5" Tubular Stl- Square		7.0	3.0	11.0			★		5.2					58			1	1				NEW - RETRO-REFL STRIP
			R1-4	18	X	6													0.8														
10+56.80	L	REPLACE	D3-1 (2x)	30	X	12			MBB	2.0	2.25" 2.5" Tubular Stl- Square		7.0	3.0	11.7			★		5.0					60			1	1				REPLACE
			D3-1 (2x)	36	X	12			MBB											6.0													
			R1-1	30	X	30														5.2													NEW - RETRO-REFL STRIP
			R1-4	18	X	6														0.8													
11+14.80	R	REPLACE	D3-1 (2x)	30	X	12			MBB	2.0	2.25" 2.5" Tubular Stl- Square		7.0	3.0	11.7			★		5.0					60			1	1				REPLACE
			D3-1 (2x)	36	X	12			MBB											6.0													
			R1-1	30	X	30														5.2													NEW - RETRO-REFL STRIP
			R1-4	18	X	6														0.8													
11+25.48	L	REPLACE	R1-1	30	X	30				2.0	2.25" 2.5" Tubular Stl- Square		7.0	3.0	11.0			★		5.2					58			1	1				NEW - RETRO-REFL STRIP
			R1-4	18	X	6														0.8													
11+28.43	R	REPLACE	W11-2	36	X	36	FY			2.0	2.25" 2.5" Tubular Stl- Square		7.0	3.0	12.6			★		9.0					62			1					REPLACE
			W16-9P	24	X	12	FY													2.0													
11+38.35	R	RSFO	R7-1	12	X	18													1.5								1						RSFO
12+61.02	R	RSFO	R7-1	12	X	18													1.5								1						RSFO

SHEET NO.
S9

SIGN LOCATIONS AND SPECIFICATIONS

PROJECT NAME
SF229 HELENA PEDESTRIAN IMPRV

COUNTY
LEWIS AND CLARK

PROJECT ID
HSIP STWD(951)

UPN
10356001

DESIGNED BY
S.MORANO

08/2025

REVIEWED BY

CHECKED BY
N.STYREN














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Department of Transportation

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SIGN LOCATION			PANEL SPECIFICATIONS					SIGN ASSEMBLY SPECIFICATIONS										SIGN ASSEMBLY QUANTITIES												ADDITIONAL INFORMATION		SHEET NO.		
STATION / R.P.	LFT / MDN / RGT / OH	ACTION	SIGN NO. (MUTCD / MT)	PANEL SIZE (INCHES)			FY OR FYG	BACKBRACING REQ'D / 1 OR 2 ANGLE IRONS REQ'D	MOUNT BACK TO BACK / CHEVRON ANGLE MOUNT	FEET CLEARANCE / OFFSET (SHOULDER TO EDGE OF SIGN)	TYPE OF SUPPORT	SUPPORT SPACING	FEET				CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)				# OF BREAKAWAYS	REMOVE		RESET		SIGN IMAGE	REMARKS
				W	X	H							SUPPORT LENGTH (ESTIMATED)	X	Y	Z				SHEET ALUMINUM	SHEET ALUMINUM INCREMENT	4" TOP DIA.	5" TOP DIA.	ROUND TUBULAR	SQUARE TUBULAR	STRUCTURAL STEEL	"U" POST		SIGN	GUIDE	SIGN	GUIDE		
12+67.46	R	REMOVE SIGN	W11-2																								1						REMOVE	
			W16-9P																															
12+79.86	L	RSFO	R7-1a	12	X	18															1.5							1					RSFO	
13.24.33	R	RSFO	R7-1a	12	X	18															1.5							1					RSFO	
13+36.46	R	NEW	R1-5L	36	X	36				2.0	2.25" 2.5" Tubular Stl-Square		7.0	3.0	10.0				★								82			1				NEW
13+82.40	R	REPLACE	D3-1 (2x)	30	X	12			MBB	2.0	2.25" 2.5" Tubular Stl-Square		7.0	3.0	11.7				★									1	1				REPLACE	
			D3-1 (2x)	36	X	12			MBB																									
			R1-1	30	X	30																												
13+90.73	R	NEW	W11-2	36	X	36	FY				**										9.0												** NEW WITH RRFB SEE ELECTRICAL PLANS	
			W16-7PL	30	X	21	FY																											
13+94.52	L	NEW	W11-2	36	X	36	FY				**										9.0												** NEW WITH RRFB SEE ELECTRICAL PLANS	
			W16-7PL	30	X	21	FY																											
13+98.06	R	RSFO	R7-1	12	X	18															1.5								1				RSFO	

PROJECT NAME

SF229 HELENA PEDESTRIAN IMPRV

DESIGNED BY

S.MORANO

REVIEWED BY

CHECKED BY

N.STYREN

DATE

08/2025

COUNTY

LEWIS AND CLARK

PROJECT ID

HSIP STWD(951)

UPN

10356001

MONTANA

Department of Transportation

SIGNING PLANS

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SIGN LOCATIONS AND SPECIFICATIONS

PROJECT NAME
SF229 HELENA PEDESTRIAN IMPRV

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Department of Transportation

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1/28/2026 7:40 PM

SIGN LOCATION			PANEL SPECIFICATIONS					SIGN ASSEMBLY SPECIFICATIONS										SIGN ASSEMBLY QUANTITIES														ADDITIONAL INFORMATION				
STATION / R.P.	LFT / MDN / RGT / OH	ACTION	SIGN NO. (MUTCD / MT)	PANEL SIZE (INCHES)			FY OR FYG	BACKBRACING REQ'D / 1 OR 2 ANGLE IRONS REQ'D	MOUNT BACK TO BACK / CHEVRON ANGLE MOUNT	FEET CLEARANCE / OFFSET (SHOULDER TO EDGE OF SIGN)	TYPE OF SUPPORT	SUPPORT SPACING	FEET				CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)				# OF BREAKAWAYS	REMOVE		RESET		SIGN IMAGE	REMARKS		
													SUPPORT SPACING	MOUNTING HEIGHT	FOUNDATION DEPTH	SUPPORT LENGTH (ESTIMATED)				SHEET ALUMINUM	SHEET ALUMINUM INCREMENT	4" TOP DIA.	5" TOP DIA.	ROUND TUBULAR	SQUARE TUBULAR	STRUCTURAL STEEL	"U" POST		SIGN	GUIDE	SIGN	GUIDE				
				X	Y	Z																														
14+13.20	M	NEW	W11-2	30	X	30	FY				**									6.3															** NEW WITH RRFB SEE ELECTRICAL PLANS	
			W16-7PR	30	X	18	FY													3.8																
			W11-2	30	X	30	FY													6.3																
			W16-7PR	30	X	18	FY													3.8																
14+27.58	L	NEW	R1-5L	36	X	36			2.0	2.25" 2.5" Tubular Stl-Square			7.0	3.0	10.0		★			9.0								82			1					NEW
15+14.16	L	RSFO	R7-1a	12	X	18														1.5										1						RSFO
15+57.40	R	NEW	R1-5bL	36	X	36			2.0	2.25" 2.5" Tubular Stl-Square			7.0	3.0	10.0		★			9.0								82			1					NEW
15+84.62	M	NEW	W11-2	30	X	30	FY				**									6.3																** NEW WITH RRFB SEE ELECTRICAL PLANS
			W16-7PR	30	X	21	FY													4.4																
			W11-2	30	X	30	FY													6.3																
			W16-7PR	30	X	21	FY													4.4																
15+84.40	R	RSFO	R7-1a	12	X	18														1.5											1					RSFO
15+90.82	R	NEW	W11-2	36	X	36	FY				**									9.0																** NEW WITH RRFB SEE ELECTRICAL PLANS
			W16-7PL	30	X	21	FY													4.4																

SHEET NO.
S11

SIGN LOCATIONS AND SPECIFICATIONS

PROJECT NAME
SF229 HELENA PEDESTRIAN IMPRV

COUNTY
LEWIS AND CLARK

PROJECT ID
HSIP STWD(951)

UPN
10356001

DESIGNED BY
S.MORANO

REVIEWED BY















CHECKED BY
N.STYREN

DATE
08/2025

MONTANA
Department of Transportation

SIGNING PLANS

1/28/2026 7:40 PM

SIGN LOCATION			PANEL SPECIFICATIONS					SIGN ASSEMBLY SPECIFICATIONS											SIGN ASSEMBLY QUANTITIES												ADDITIONAL INFORMATION						
STATION / R.P.	LFT / MDN / RGT / OH	ACTION	SIGN NO. (MUTCD / MT)	PANEL SIZE (INCHES)			FY OR FYG	BACKBRACING REQ'D / 1 OR 2 ANGLE IRONS REQ'D	MOUNT BACK TO BACK / CHEVRON ANGLE MOUNT	FEET		TYPE OF SUPPORT	SUPPORT SPACING	MOUNTING HEIGHT	FOUNDATION DEPTH	FEET			CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)				# OF BREAKAWAYS	REMOVE		RESET		SIGN IMAGE	REMARKS	
										CLEARANCE / OFFSET (SHOULDER TO EDGE OF SIGN)	X					Y	Z	SHEET ALUMINUM				SHEET ALUMINUM INCREMENT	4" TOP DIA.	5" TOP DIA.	ROUND TUBULAR	SQUARE TUBULAR	STRUCTURAL STEEL	"U" POST	SIGN		GUIDE	SIGN	GUIDE				
16+07.30	L	NEW	W11-2	36	X	36	FY				**										9.0												** NEW WITH RRFB SEE ELECTRICAL PLANS				
			W16-7PL	30	X	21	FY														4.4																
16+32.58	L	RSFO	R7-1a	12	X	18															1.5								1					RSFO			
16+51.38	L	NEW	R1-5L	36	X	36				2.0	2.25" 2.5" Tubular Stl-Square			7.0	3.0	10.0				★		9.0							82		1					NEW	
16+55.16	R	REPLACE	D3-1 (2x)	36	X	12				2.0	2.25" 2.5" Tubular Stl-Square			7.0	3.0	11.7				★		6.0								60		1	1				REPLACE
			D3-1 (2x)	36	X	12																6.0															
			R1-1	30	X	30																5.2														RETRO-REFL STRIP	
16+64.45	R	RSFO	R7-1a	12	X	18																1.5								1						RSFO	
16+88.11	L	RSFO	R1-2 36X36X36																			3.9								1						RSFO	
17+16.80	M	RSFO	R5-1	30	X	30																6.3								1						RSFO	
17+27.49	R	RSFO	R3-8	30	X	36																7.5									1						RSFO
17+32.60	M	REPLACE	D3-1 (2x)	36	X	12				2.0	2.25" 2.5" Tubular Stl-Square			7.0	3.0	11.7				★		6.0								60		1	1				REPLACE
			D3-1 (2x)	36	X	12																6.0															
			R1-1	30	X	30																5.2														RETRO-REFL STRIP	

SHEET NO.
S12

SIGN LOCATIONS AND SPECIFICATIONS

PROJECT NAME
SF229 HELENA PEDESTRIAN IMPRV

COUNTY
LEWIS AND CLARK

PROJECT ID
HSIP STWD(951)

UPN
10356001

DESIGNED BY
S.MORANO













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MONTANA
Department of Transportation

SIGNING PLANS

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SIGN LOCATION			PANEL SPECIFICATIONS				SIGN ASSEMBLY SPECIFICATIONS											SIGN ASSEMBLY QUANTITIES												ADDITIONAL INFORMATION				
STATION / R.P.	LFT / MDN / RGT / OH	ACTION	SIGN NO. (MUTCD / MT)	PANEL SIZE (INCHES)			FY OR FYG	BACKBRACING REQ'D / 1 OR 2 ANGLE IRONS REQ'D	MOUNT BACK TO BACK / CHEVRON ANGLE MOUNT	FEET CLEARANCE / OFFSET (SHOULDER TO EDGE OF SIGN)	TYPE OF SUPPORT	SUPPORT SPACING	FEET				CANTILEVER	BREAKAWAY TYPE	BEHIND GUARDRAIL	PANEL (SQ. FT.)		WOOD POLE (LNR. FT.)		STEEL POST (LBS.)				# OF BREAKAWAYS	REMOVE		RESET		SIGN IMAGE	REMARKS
				W	X	H							SUPPORT SPACING	MOUNTING HEIGHT	FOUNDATION DEPTH	SUPPORT LENGTH (ESTIMATED)				ROUND TUBULAR	SQUARE TUBULAR	STRUCTURAL STEEL	"U" POST	SIGN	GUIDE	SIGN	GUIDE							
																X													Y	Z				
17+42.30	R	RSFO	R7-1a	12	X	18													1.5														RSFO	
18+23.90	L	REPLACE	W11-2	36	X	36	FY		2.0	2.25" 2.5" Tubular Stl-Square		7.0	3.0	12.6			★		9.0					62				1					REPLACE	
			W16-9P	24	X	12	FY												2.0															
18+37.32	R	RSFO	R7-1a	12	X	18													1.5									1					RSFO	
18+56.00	R	REPLACE	D3-1 (2x)	30	X	12		MBB	2.0	2.25" 2.5" Tubular Stl-Square		7.0	3.0	11.7			★		5.0					60			1	1					REPLACE	
			D3-1 (2x)	36	X	12		MBB											6.0															
			R1-1	30	X	30													5.2														RETRO-REFL STRIP	
			R1-4	18	X	6													0.8															
18+57.90	L	REPLACE	D3-1 (2x)	30	X	12		MBB	2.0	2.25" 2.5" Tubular Stl-Square		7.0	3.0	11.7			★		5.0					60			1	1					REPLACE	
			D3-1 (2x)	36	X	12		MBB											6.0															
			R1-1	30	X	30													5.2														RETRO-REFL STRIP	
			R1-4	18	X	6													0.8															

SHEET NO.
S13

SIGN LOCATIONS AND SPECIFICATIONS

PROJECT NAME
SF229 HELENA PEDESTRIAN IMPRV

COUNTY
LEWIS AND CLARK

PROJECT ID
HSIP STWD(951)

UPN
10356001

DESIGNED BY
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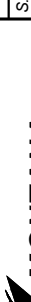
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N.STYREN

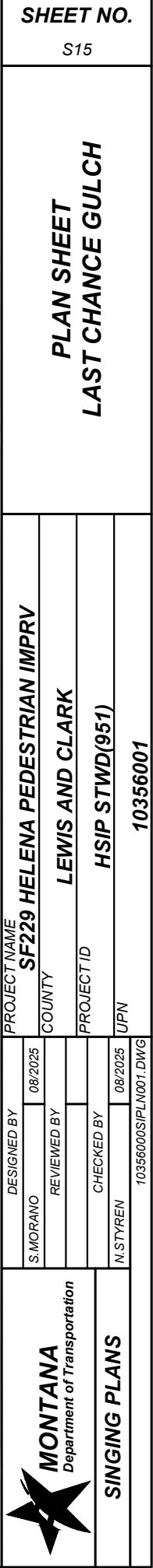
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08/2025

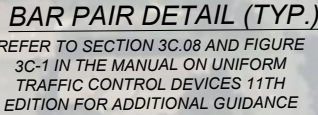
MONTANA
Department of Transportation

SIGNING PLANS

1/28/2026 7:40 PM

 MONTANA Department of Transportation		SIGNING PLANS	
DESIGNED BY	S. MORANO	08/2025	
REVIEWED BY			
CHECKED BY			
N. STYREN	08/2025	10356000SUSUM007.DWG 1/28/2026 7:40 PM	
PROJECT NAME		SF229 HELENA PEDESTRIAN IMPRV	
COUNTY		LEWIS AND CLARK	
PROJECT ID		HSIP STWD(951)	
UPN		10356001	





S16

PLAN SHEET
NORTH-MONTANA AVE.

PROJECT NAME
SF229 HELENA PEDESTRIAN IMPRV

LEWIS AND CLARK

HSIP STWD(951)

10356001

DESIGNED BY	
S.MORANO	08/2025

REVIEWED BY

CHECKED BY

5/10

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MONTANA
Department of Transportation

SIGNING PLANS

2/2/2026 8:57 AM

ELECTRICAL QUANTITIES

ITEM NO.	MATERIAL	UNIT	#1	#2	#3	#4	#5	
617000000	FOUNDATION CONCRETE	CUYD	1.5	1.5	1.5	1.5	1.5	7.5
617573070	RECTANGULAR RAPID FLASHING BEACON	EACH	1	1	1	1	1	5
617673200	SIG STANDARD TYPE 1-200	EACH	3	3	3	3	3	15
617903250	PUSH BUTTON-PEDESTRIAN	EACH	2	2	2	2	3	11

BRECKENRIDGE ST

5TH AVE

8TH AVE

9TH AVE

LAST CHANCE GULCH

TOTAL

SHEET NO.

E1

ELECTRICAL SUMMARY

PROJECT NAME
SF 229 HELENA PEDESTRIAN IMPRV

COUNTY

LEWIS & CLARK

PROJECT ID

HSIP STWD(951)

UPN


10356000

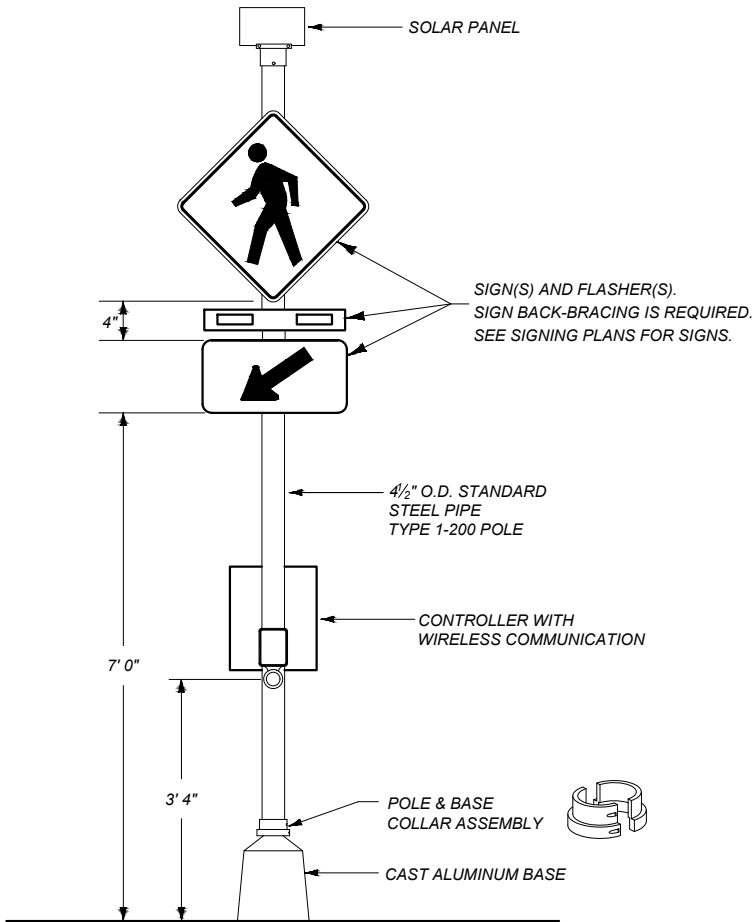


ELECTRICAL

PROJECT NAME	SF 229 HELENA PEDESTRIAN IMPRV		
COUNTY	LEWIS & CLARK		
PROJECT ID	HSIP STWD(951)		
UPN	10356000		

DESIGNED BY	6/2025
REVIEWED BY	8/2025
CHECKED BY	
10356000ELMAP001.DWG	

	ELECTRICAL	
	1/26/2026 9:19 AM	



SIGN BACKBRACING IS REQUIRED

SHALLOW UNISTRUT

4" UNISTRUT CLAMP

USE 5/16" STAINLESS STEEL BOLTS W/PLASTIC WASHERS ON SIGN FACE

REAR ISOMETRIC

5" x 7 3/4" ALUMINUM SIGN, BLACK LETTERS ON WHITE BACKGROUND.

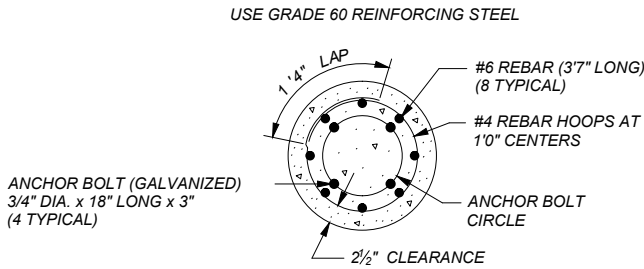
BACK OF CASTING SHAPED TO FIT CURVATURE OF POLE.



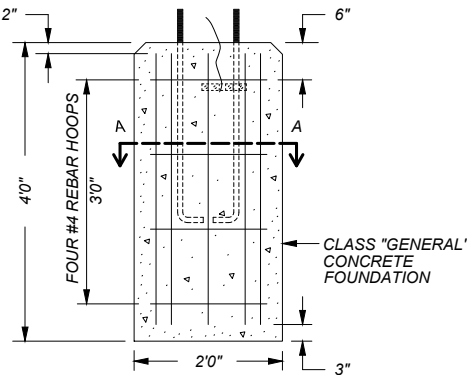
TRIM TOP OF PIPE TO MEET BEACON MOUNTING REQUIREMENTS.

SLOPE GROUND AROUND FOUNDATION AS REQUIRED. NO PART OF THE FOUNDATION OR ANCHOR BOLTS MAY PROTRUDE MORE THAN 4" ABOVE GROUND AFTER BREAKAWAY.

RECTANGULAR RAPID FLASH BEACON
NO SCALE



SECTION A-A



TYPICAL FOUNDATION

PROJECT NAME
SF 229 HELENA PEDESTRIAN IMPRV

COUNTY

LEWIS & CLARK

PROJECT ID

HSIP STWD(951)

UPN

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DESIGNED BY
J. DEGROAT

6/2025

REVIEWED BY

D. CUNNINGHAM

8/2025

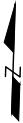
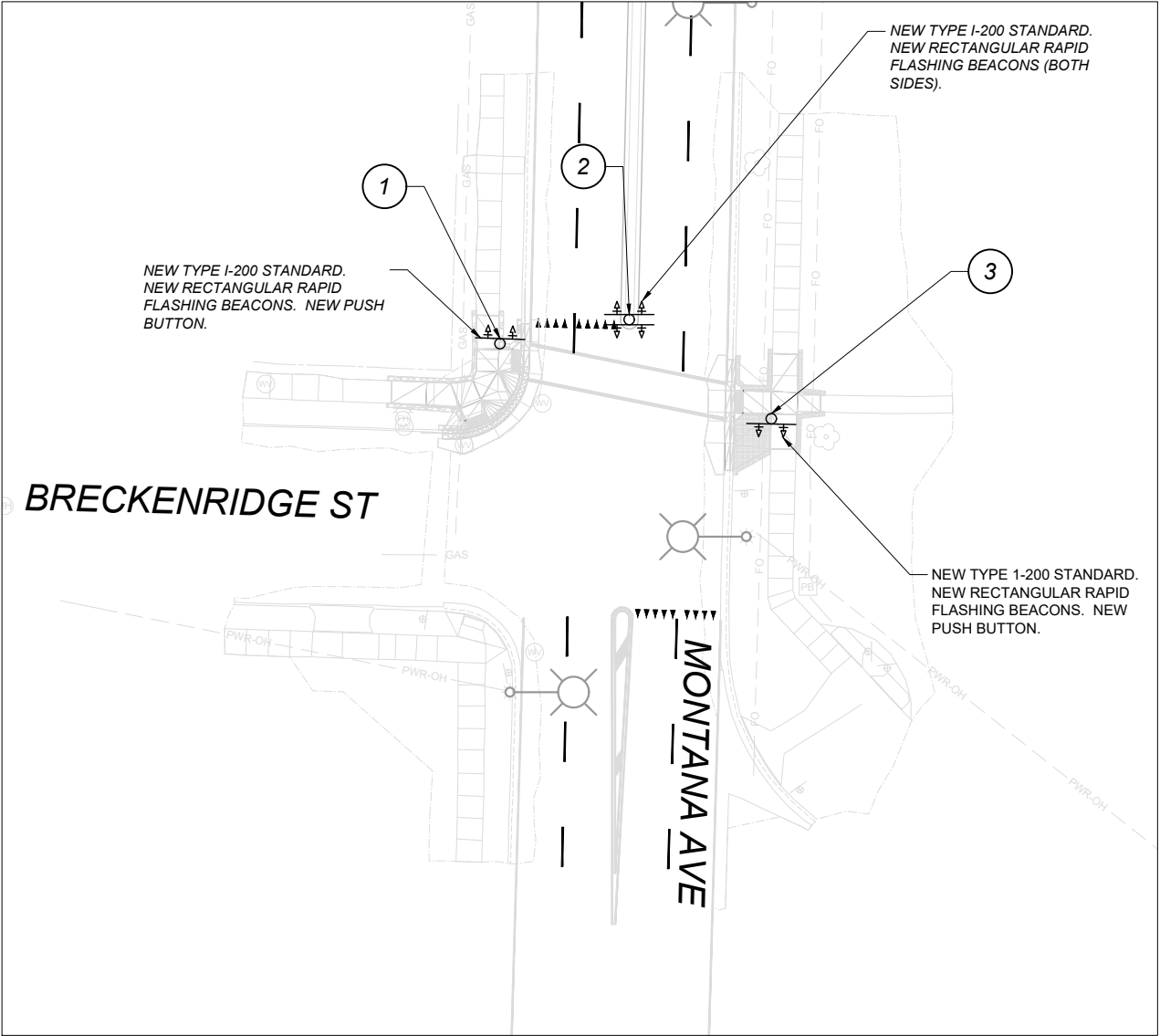
CHECKED BY

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ELECTRICAL

1/26/2026 9:19 AM



POLE SCHEDULE								
POLE NO.	ITEM NO.	TYPE	TYPE POLE BASE	FOUNDATION DIA. X DEPTH	PED BUTTON LEFT	PED BUTTON RIGHT ARROW	N OR Y COORDINATE	E OR X COORDINATE
1	617 673 200	1-200	BREAKAWAY	2' X 4'		1	861608.1	1335216.8
2	617 673 200	1-200	BREAKAWAY	2' X 4'			861613.58	1335246.31
3	617 673 200	1-200	BREAKAWAY	2' X 4'		1	861590.94	1335278.74

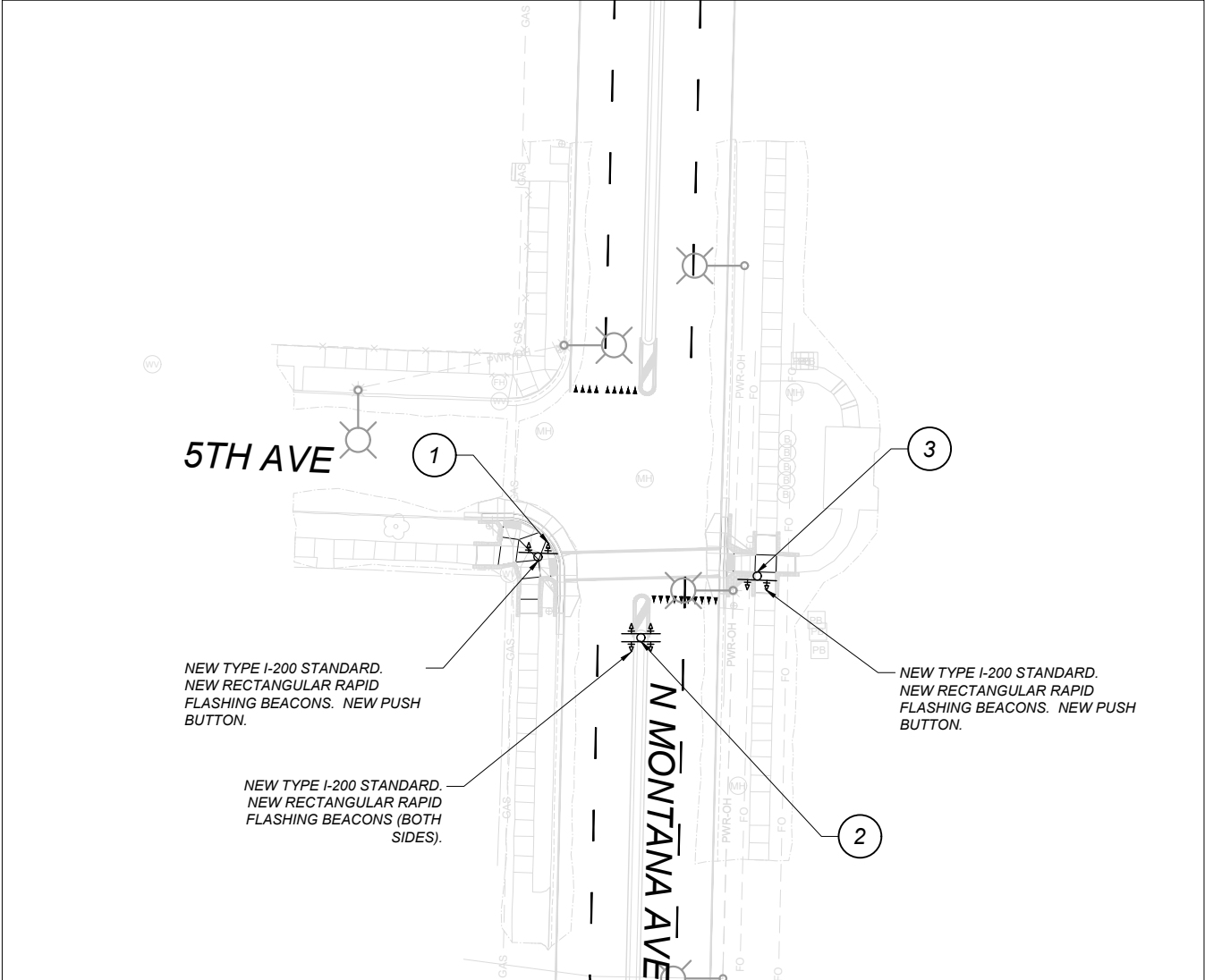
PROJECT NAME		SF 229 HELENA PEDESTRIAN IMPRV	
DESIGNED BY		COUNTY	
J. DEGROAT		LEWIS & CLARK	
REVIEWED BY		PROJECT ID	
D. CUNNINGHAM		HSIP STWD(951)	
CHECKED BY		UPN	
		10356000	



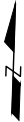
ELECTRICAL

1/26/2026 9:19 AM

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POLE SCHEDULE								
POLE NO.	ITEM NO.	TYPE	TYPE POLE BASE	FOUNDATION DIA. X DEPTH	PED BUTTON LEFT	PED BUTTON RIGHT ARROW	N OR Y COORDINATE	E OR X COORDINATE
1	617 673 200	1-200	BREAKAWAY	2' X 4'		1	861808.65	1335220.47
2	617 673 200	1-200	BREAKAWAY	2' X 4'			861785.31	1335250.41
3	617 673 200	1-200	BREAKAWAY	2' X 4'		1	861803.11	1335284.29



POLE SCHEDULE								
POLE NO.	ITEM NO.	TYPE	TYPE POLE BASE	FOUNDATION DIA. X DEPTH	PED BUTTON LEFT ARROW	PED BUTTON RIGHT ARROW	N OR Y COORDINATE	E OR X COORDINATE
1	617 673 200	1-200	BREAKAWAY	2' X 4'		1	862505.85	1335237.01
2	617 673 200	1-200	BREAKAWAY	2' X 4'			862511.15	1335267.08
3	617 673 200	1-200	BREAKAWAY	2' X 4'		1	862496.84	1335297.81

SHEET NO.

E5

ELECTRICAL PLAN

T NAME
SF 229 HELENA PEDESTRIAN IMPRV

COUNTY

LEWIS & CLARK

HSIP STWD(951)

10356000

DESIGNED BY

6/2025

REVIEWED BY

NAME

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ELECTRICAL

1/26/2026 9:19 AM

PROJECT NAME
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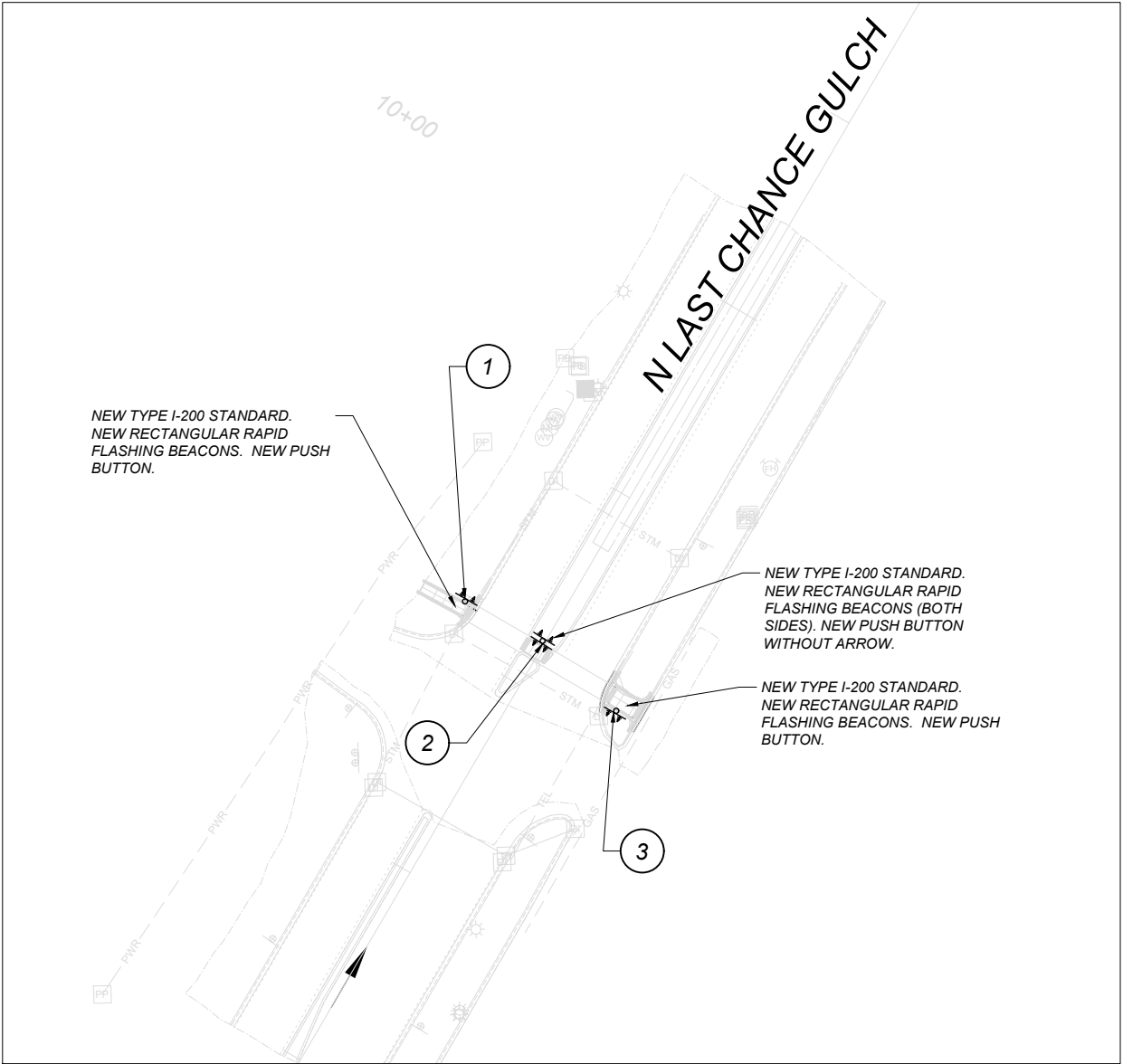


ELECTRICAL

1/26/2026 9:19 AM

POLE SCHEDULE

POLE NO.	ITEM NO.	TYPE	TYPE POLE BASE	FOUNDATION DIA. X DEPTH	PED BUTTON LEFT ARROW	PED BUTTON RIGHT ARROW	N OR Y COORDINATE	E OR X COORDINATE
1	617 673 200	1-200	BREAKAWAY	2' X 4'		1	867076.33	1332901.82
2	617 673 200	1-200	BREAKAWAY	2' X 4'	*		867056.99	1332936.1
3	617 673 200	1-200	BREAKAWAY	2' X 4'		1	867023.71	1332969.76
*NO ARROW ON THIS BUTTON								

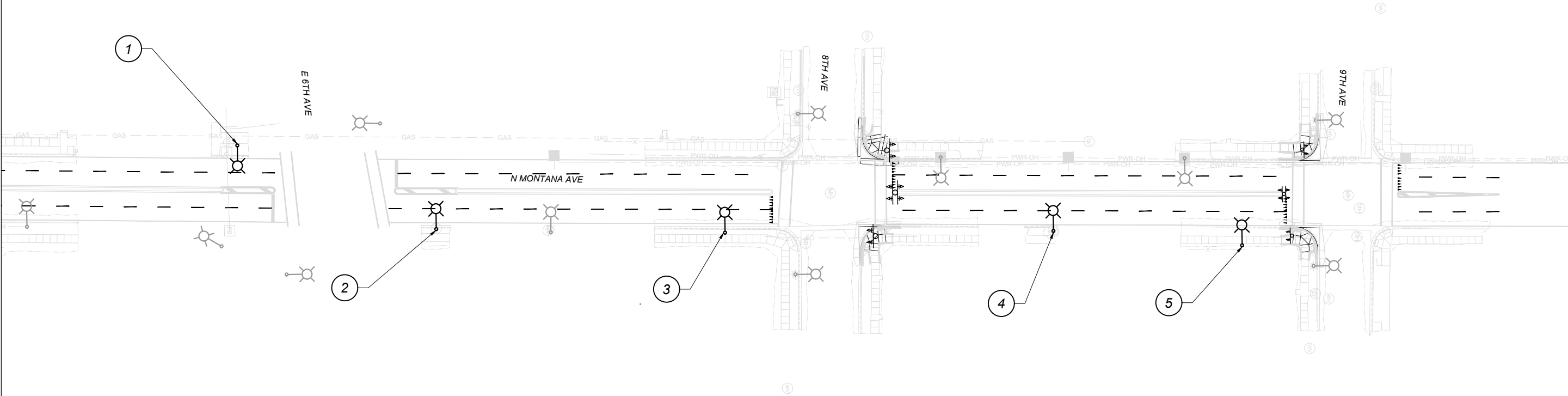


*NOTE: INFORMATIONAL

SHEET NO.

E8

ELECTRICAL PLAN



POLE SCHEDULE							
POLE NO.	TYPE POLE BASE	FOUNDATION DIA. X DEPTH	LUMINAIRE MAST ARM	LUMINAIRE HEIGHT	LUMINAIRE TYPE	N OR Y COORDINATE	E OR X COORDINATE
1	BREAKAWAY	2' 0" x 5' 0"	10'	30'	LED	862,044.04	1,335,225.45
2	BREAKAWAY	2' 0" x 5' 0"	10'	30'	LED	862,184.46	1,335,287.38
3	BREAKAWAY	2' 0" x 5' 0"	10'	30'	LED	862,389.77	1,335,293.52
4	BREAKAWAY	2' 0" x 5' 0"	10'	30'	LED	862,623.30	1,335,296.41
5	BREAKAWAY	2' 0" x 5' 0"	10'	30'	LED	862,757.25	1,335,309.01

*NOTE: LIGHT STANDARDS, LIGHT STANDARD FOUNDATIONS, AND LUMINAIRE FIXTURES TO BE PROVIDED AND INSTALLED BY NW ENERGY. CONNECTION TO POWER USING AERIAL CONDUCTORS WILL BE MADE BY NW ENERGY.

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