

RUSSELL COMMUTER TRAIL CROSSING  
MISSOULA, MONTANA  
CITY OF MISSOULA PROJECT #2020-065

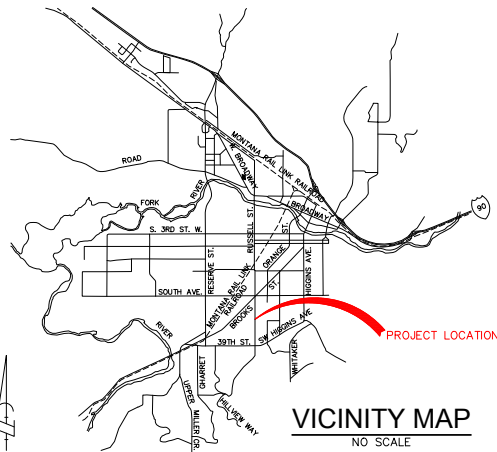


WGM GROUP  
WWW.WGMGROUP.COM

PRELIMINARY

PLOTTED: 1/20/23  
SAVED: 1/20/23

STAGE 3 PLANS



GENERAL NOTES:  
(CIVIL DRAWINGS)

- ALL WORK SHALL CONFORM TO THE MONTANA PUBLIC WORKS STANDARD SPECIFICATIONS, SEVENTH EDITION, 2021, AS AMENDED BY THE CITY OF MISSOULA.
- CONTRACTOR SHALL FIELD VERIFY THE LOCATION, SIZE, AND DEPTH OF ALL UTILITIES INCLUDING ALL SERVICES TO ALL PROPERTIES. THESE DRAWINGS MAY NOT SHOW ALL FACILITIES. THE DEPTHS OF ALL EXISTING UTILITIES ARE UNKNOWN. BURIED UTILITIES SHOWN ON THIS SITE ARE BASED ON AVAILABLE RECORDS AND UTILITY LOCATOR PAINT MARKS. CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION.
- CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM CITY OF MISSOULA, STATE OF MONTANA, AND UTILITY COMPANIES PRIOR TO STARTING WORK.
- ALL CONCRETE AREAS ARE DESIGNED TO HAVE A 1.5% MAXIMUM CROSS SLOPE UNLESS OTHERWISE SHOWN ON THE PLANS.
- ALL MATERIALS AND WORKMANSHIP OF IMPROVEMENTS SHALL MEET OR EXCEED ADA AS WELL AS STATE AND LOCAL REGULATIONS. WHERE THERE IS A CONFLICT BETWEEN THESE PLANS AND THE SPECIFICATIONS, OR ANY APPLICABLE STANDARD, THE HIGHER QUALITY STANDARD SHALL APPLY.
- CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO BIDDING THE PROJECT AND BEGINNING CONSTRUCTION.
- CONTRACTOR RESPONSIBLE FOR INSTALLING AND MAINTAINING ALL EROSION CONTROL MEASURES, AND PROTECTING HAUL OFF/DROP ON ONTO ADJACENT PARKING AREAS AND PUBLIC RIGHTS OF WAY. CONTRACTOR RESPONSIBLE FOR CLEANING ANY MATERIAL HAUL OFF/DROP ONTO ADJACENT PARKING AREAS OR PUBLIC RIGHTS OF WAY.
- GRADING AND SLOPE INFORMATION PRESENTED IN THIS PLAN SET IS BASED ON DESIGN GRADES AND BEST AVAILABLE MAPPING INFORMATION. EXISTING ELEVATIONS AT TIE IN POINT ELEVATIONS SHALL BE VERIFIED PRIOR TO INSTALLATION OF EXTERIOR IMPROVEMENTS. NOTIFY ENGINEER IF DIFFERENT CONDITIONS ARE FOUND. CONTRACTOR RESPONSIBLE FOR ENSURING POSITIVE DRAINAGE AND ADA COMPLIANCE FOR CONSTRUCTED IMPROVEMENTS.
- THIS PLAN IS TO BE USED TO ASSIST THE CONTRACTOR IN HORIZONTAL LOCATION DURING THE STAKING AND LAYOUT. IF THE CONTRACTOR DISCOVERS ANY DISCREPANCY BETWEEN THE GIVEN DATA AND THE INTENT SHOWN BY THE DRAWINGS, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR CLARIFICATION.

SHEET INDEX

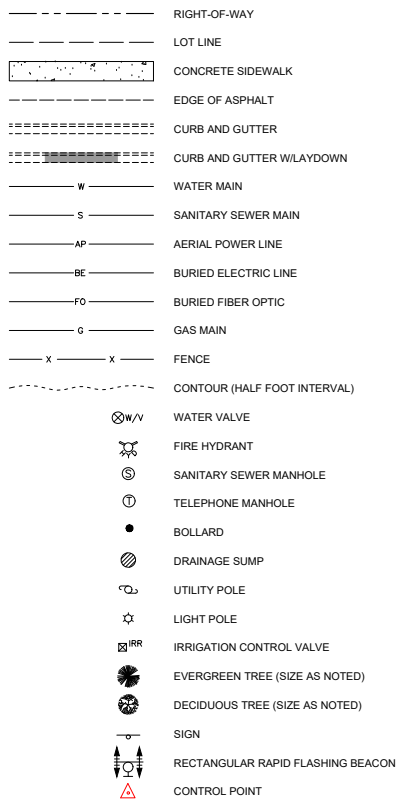
SHEET	DESCRIPTION
C1.0	CIVIL COVER SHEET
C1.1	EXISTING CONDITIONS
C1.2	EXISTING CONDITIONS
C1.3	DEMOLITION PLAN
C1.4	DEMOLITION PLAN
C2.0	SITE PLAN
C2.1	SITE PLAN
C3.0	GRADING PLAN
C4.0	CIVIL DETAILS
C4.1	CIVIL DETAILS
C4.2	TYPICAL SECTIONS
C5.0	SIGNING AND STRIPING PLAN
C5.1	SIGNING AND STRIPING PLAN
C5.2	SIGNING AND STRIPING DETAILS
C6.0	EROSION CONTROL PLAN
C6.1	EROSION CONTROL PLAN
C6.2	EROSION CONTROL DETAILS



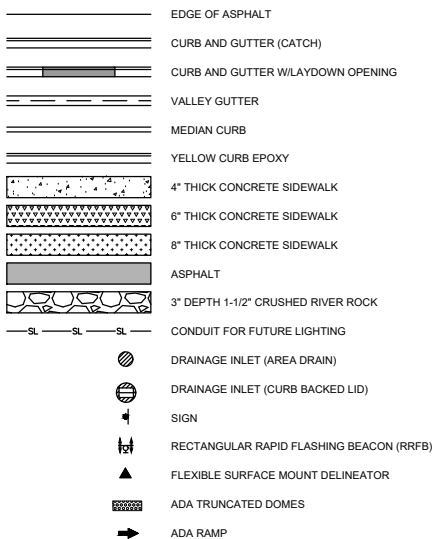
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

WGM GROUP, INC. ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS (HORIZONTAL AND VERTICAL). THE EXISTING UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. IT IS, HOWEVER, THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES.

LEGEND-EXISTING



LEGEND-PROPOSED



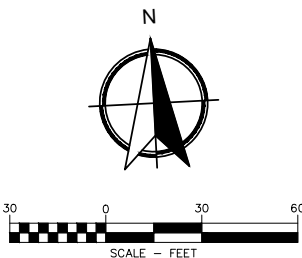
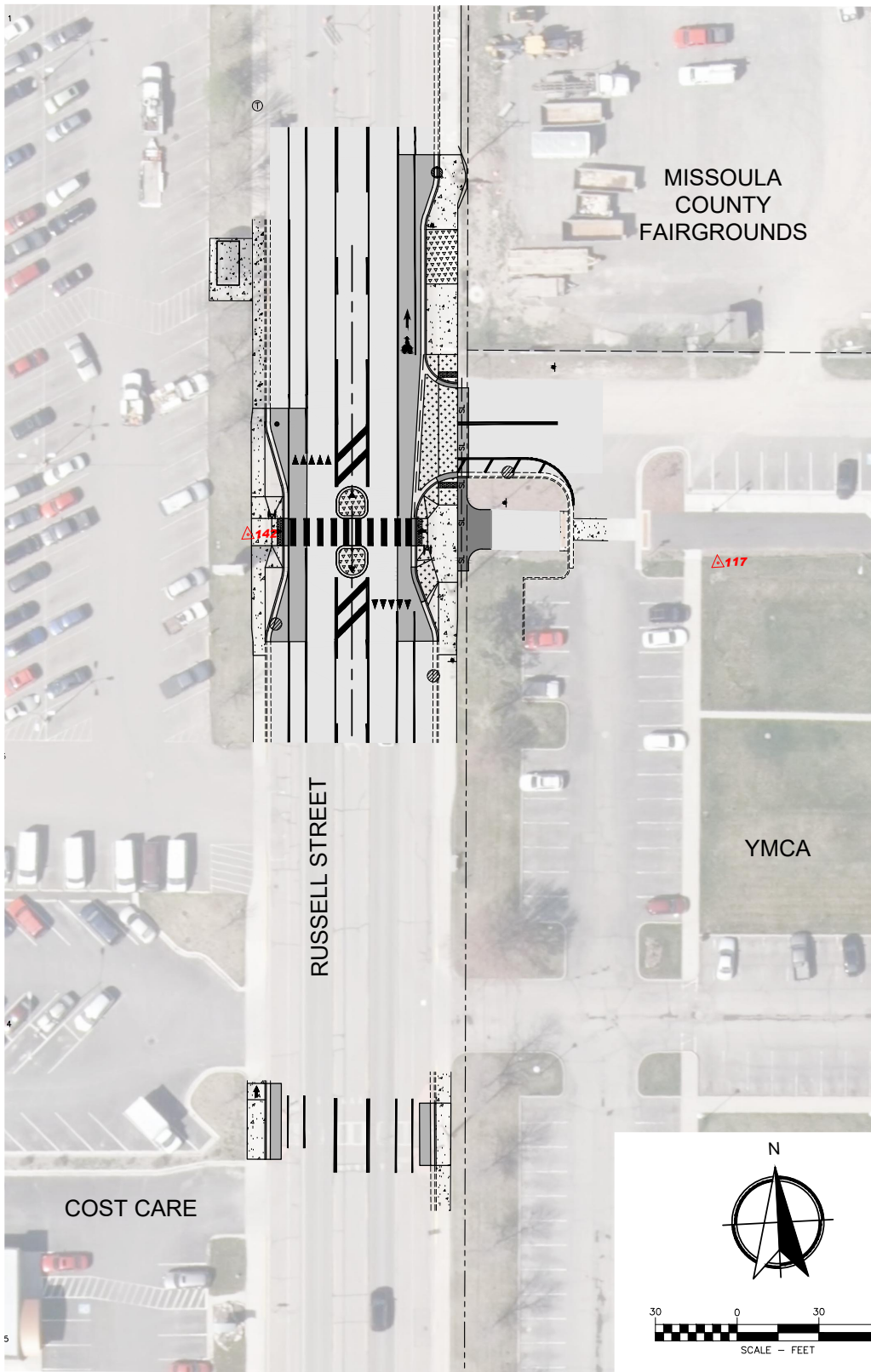
SURVEY INFORMATION

BASIS OF BEARING:  
GRID NORTH OF MONTANA STATE  
PLANE COORDINATE SYSTEM NAD83(CORS96)  
UNITS: INTERNATIONAL FEET

VERTICAL DATUM:  
NAVD88-FROM OPUS SOLUTION  
UNITS: INTERNATIONAL FEET

POINT LIST

POINT NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
13	978126.37	839396.20	3188.12	WGM OPC
117	978264.03	839231.94	3183.36	WGM OPC
118	978261.59	839549.54	3189.52	WGM OPC
142	978283.43	839060.25	3181.31	WGM OPC



COVER SHEET

RUSSELL COMMUTER TRAIL CROSSING

MISSOULA, MONTANA

REVISIONS:  
NO. DESCRIPTION DATE

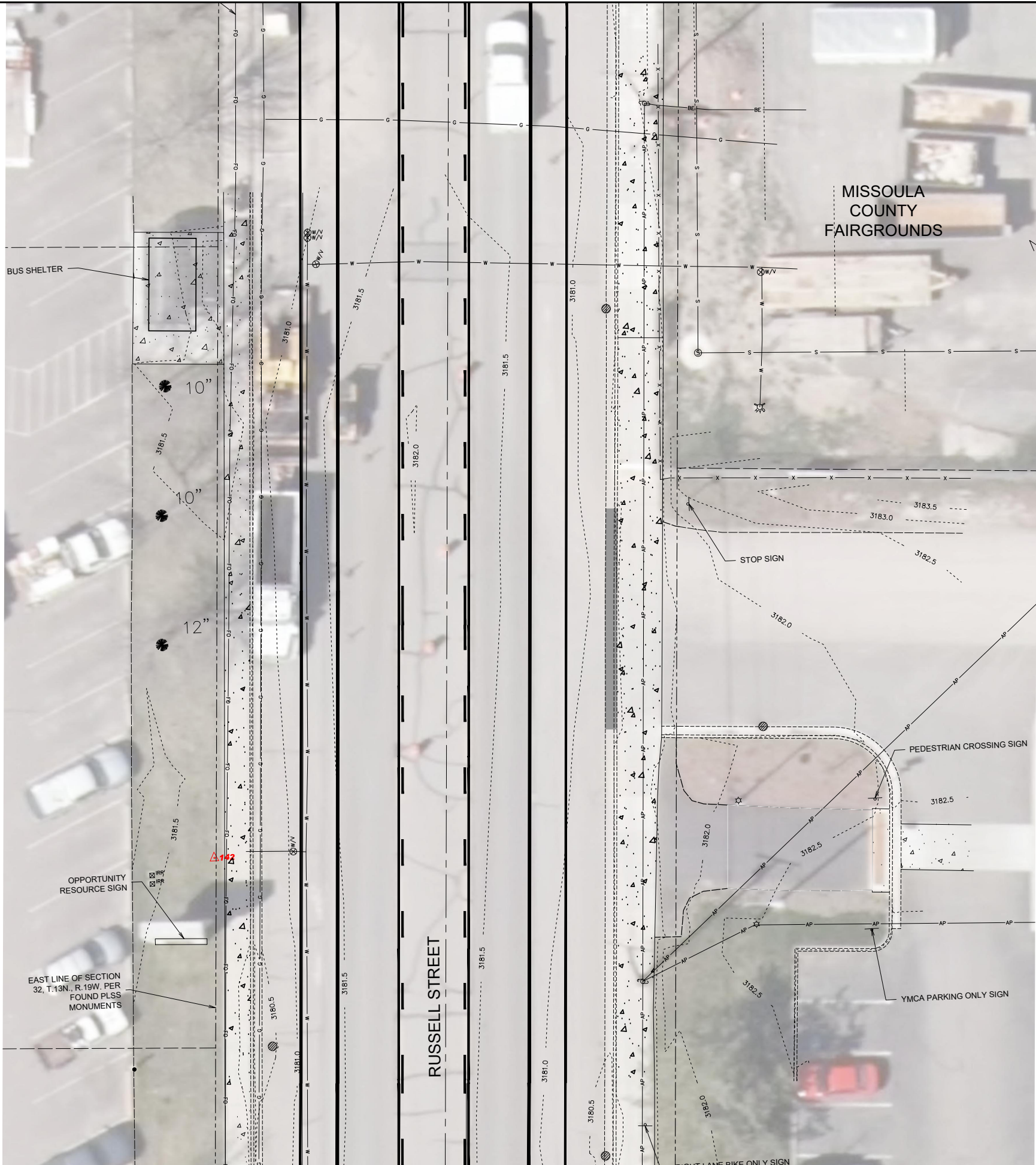
PROJECT: 21-06-02  
LAYOUT: C1.0  
SURVEYED: WGM GROUP  
DESIGN: RMS  
DRAFT: DEB  
APPROVE: SM  
DATE:

JANUARY 23, 2023

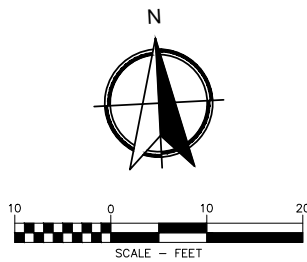
C1.0

SHEET

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- LEGEND-EXISTING**
- RIGHT-OF-WAY
  - LOT LINE
  - CONCRETE SIDEWALK
  - EDGE OF ASPHALT
  - CURB AND GUTTER
  - CURB AND GUTTER W/LAYDOWN
  - W --- WATER MAIN
  - S --- SANITARY SEWER MAIN
  - AP --- AERIAL POWER LINE
  - BE --- BURIED ELECTRIC LINE
  - FO --- BURIED FIBER OPTIC
  - G --- GAS MAIN
  - X --- FENCE
  - CONTOUR (HALF FOOT INTERVAL)
  - ⊗ W/V --- WATER VALVE
  - ⊗ --- FIRE HYDRANT
  - ⊗ --- SANITARY SEWER MANHOLE
  - ⊗ --- TELEPHONE MANHOLE
  - --- BOLLARD
  - ⊗ --- DRAINAGE SUMP
  - ⊗ --- UTILITY POLE
  - ⊗ --- LIGHT POLE
  - ⊗ --- IRRIGATION CONTROL VALVE
  - ⊗ --- EVERGREEN TREE (SIZE AS NOTED)
  - ⊗ --- DECIDUOUS TREE (SIZE AS NOTED)
  - ⊗ --- SIGN
  - ⊗ --- RAPID REFLECTING BEACON (RRFB)
  - ⊗ --- CONTROL POINT



**PRELIMINARY**  
PLOTTED: 1/20/23  
SAVED: 1/20/23  
**STAGE 3 PLANS**

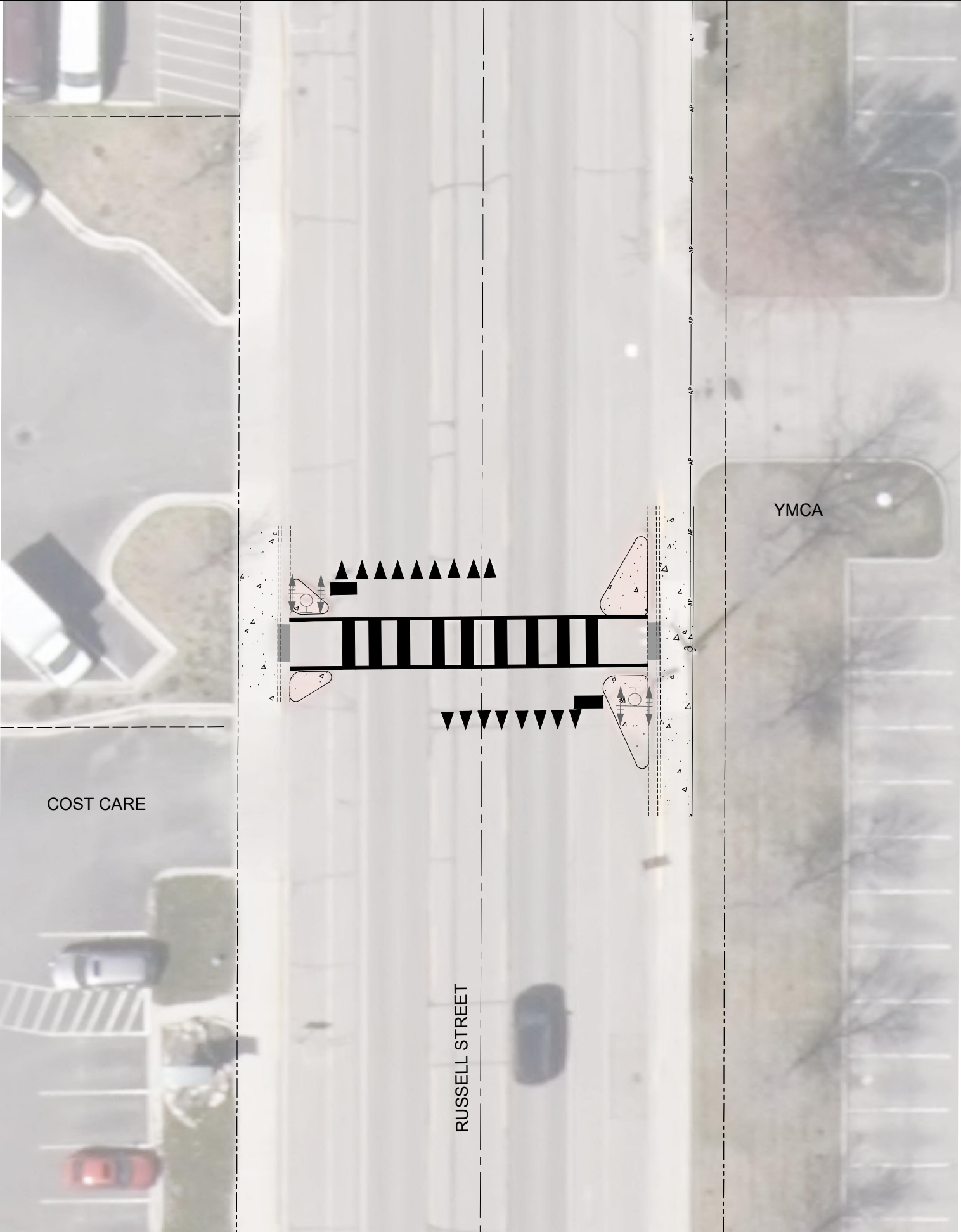
**EXISTING CONDITIONS  
RUSSELL COMMUTER TRAIL CROSSING  
MISSOULA, MONTANA**

REVISIONS:		
NO.	DESCRIPTION	DATE

PROJECT: 21-06-02  
LAYOUT: C1.1  
SURVEYED: WGM GROUP  
DESIGN: RMS  
DRAFT: DEB  
APPROVE: SMM  
DATE: **JANUARY 23, 2023**  
**C1.1**

FILE: W:\Projects\210602\CAD Data\Design\210602DM.dwg





LEGEND-EXISTING

- RIGHT-OF-WAY
- LOT LINE
- CONCRETE SIDEWALK
- EDGE OF ASPHALT
- CURB AND GUTTER
- CURB AND GUTTER W/LAYDOWN
- W --- WATER MAIN
- S --- SANITARY SEWER MAIN
- AP --- AERIAL POWER LINE
- BE --- BURIED ELECTRIC LINE
- FO --- BURIED FIBER OPTIC
- G --- GAS MAIN
- X --- X --- FENCE
- CONTOUR (HALF FOOT INTERVAL)
- ⊗ W/V --- WATER VALVE
- ⊗ --- FIRE HYDRANT
- ⊗ --- SANITARY SEWER MANHOLE
- ⊗ --- TELEPHONE MANHOLE
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- ⊗ --- UTILITY POLE
- ⊗ --- LIGHT POLE
- ⊗ --- IRRIGATION CONTROL VALVE
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PRELIMINARY  
PLOTTED: 1/20/23  
SAVED: 1/20/23  
STAGE 3 PLANS

EXISTING CONDITIONS  
RUSSELL COMMUTER TRAIL CROSSING  
MISSOULA, MONTANA

REVISIONS:		
NO.	DESCRIPTION	DATE

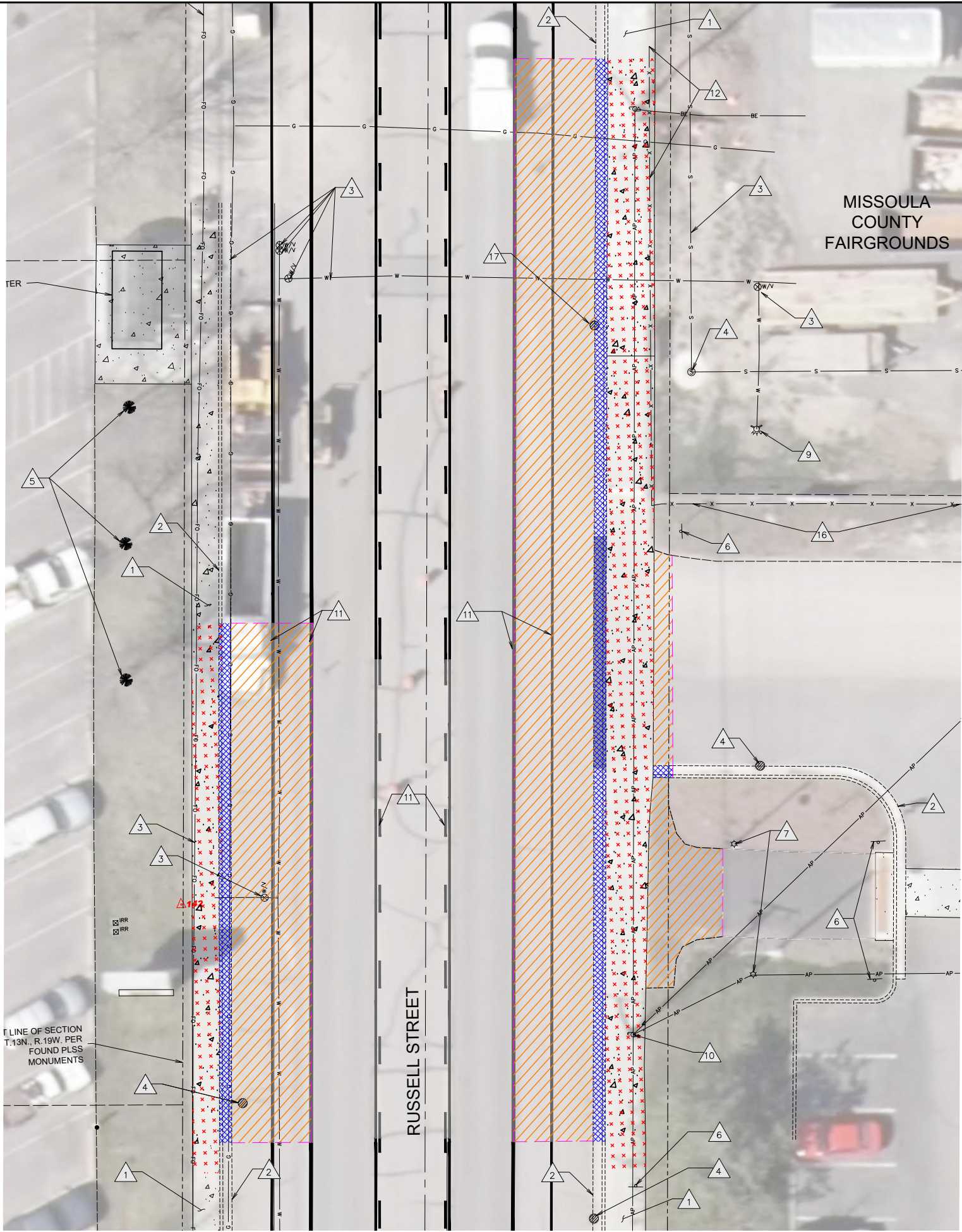
PROJECT: 21-06-02  
LAYOUT: C1.2  
SURVEYED: WGM GROUP  
DESIGN: RMS  
DRAFT: DEB  
APPROVE: SMM  
DATE:

JANUARY 23, 2023

C1.2

SHEET

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LEGEND-DEMOLITION

- ASPHALT SAW CUT LINE
- ASPHALT REMOVAL AREA
- CONCRETE REMOVAL AREA
- CURB REMOVAL

GENERAL NOTES:

NOT ALL EXISTING SITE CONSTRUCTION AND ELEMENTS ARE SHOWN ON DRAWING. CONTRACTOR TO VISIT SITE AND FAMILIARIZE THEMSELVES WITH NEW CONSTRUCTION PLANS FOR ALL REQUIRED DEMOLITION. DRAWINGS ARE DIAGRAMMATIC.

ALL DEMOLISHED/REMOVED MATERIAL AND EXCESS EXCAVATED MATERIAL NOT DESIGNATED FOR RE-USE OR SALVAGE SHALL BE DISPOSED OF OFF SITE BY CONTRACTOR.

STRIP TOPSOIL AS NEEDED IN AREAS WHERE PAVEMENT OR SIDEWALK IS PROPOSED. CONTRACTOR TO VERIFY UNDERGROUND UTILITIES. CONTRACTOR RESPONSIBLE FOR FULL DEPTH OF STRIPPING. ANY EXCESS TOPSOIL THAT IS NOT USED IN PROPOSED LANDSCAPING SHALL BE DISPOSED OF OFF SITE. TOPSOIL NEEDED FOR IMPROVEMENTS ON-SITE SHALL BE RETAINED FROM STRIPPED TOPSOIL, AND STOCKPILED ON-SITE UNTIL FINAL PLACEMENT IN LANDSCAPING AREAS.

DEMOLITION NOTES:

- 1. PROTECT EXISTING SIDEWALK
- 2. PROTECT EXISTING CURB
- 3. PROTECT EXISTING UTILITY
- 4. PROTECT EXISTING SUMP, INLET OR MANHOLE
- 5. PROTECT EXISTING TREE
- 6. PROTECT EXISTING SIGN
- 7. PROTECT EXISTING LUMINAIRE
- 8. PROTECT EXISTING POWER POLE
- 9. PROTECT EXISTING FIRE HYDRANT
- 10. RELOCATE UTILITY POLE. CITY OF MISSOULA TO COORDINATE WITH NORTHWESTERN ENERGY
- 11. REMOVE EXISTING PAVEMENT MARKINGS. REMOVAL METHOD TO BE APPROVED BY THE ENGINEER.
- 12. REMOVE AND RESET CHAIN LINK FENCE. PLACE NEW FENCE POSTS BEHIND PROPOSED SIDEWALK.
- 13. REMOVE CONCRETE MEDIAN. DISPOSE OF OFFSITE
- 14. REMOVE EXISTING SIGN POST AND RAPID RECTANGULAR FLASHING BEACON FOR RELOCATION TO RUSSELL COMMUTER TRAIL CROSSING. COORDINATE WITH THE CITY OF MISSOULA PRIOR TO REMOVAL.
- 15. REMOVE EXISTING SIDEWALK RAMPS AND CURB LAYDOWN. RECONSTRUCT CURB AND SIDEWALK TO FULL HEIGHT ELEVATION.
- 16. PROTECT EXISTING FENCE
- 17. REMOVE SUMP AND SUMP ROCK. BACKFILL IN 1.0' LIFTS WITH SUITABLE BACKFILL MATERIAL AND COMPACT TO 99% PROCTOR DENSITY.



PRELIMINARY

PLOTTED: 1/20/23  
SAVED: 1/20/23

STAGE 3 PLANS

DEMOLITION PLAN  
RUSSELL COMMUTER TRAIL CROSSING  
MISSOULA, MONTANA

REVISIONS:		
NO.	DESCRIPTION	DATE

PROJECT: 21-06-02  
LAYOUT: C1.3  
SURVEYED: WGM GROUP  
DESIGN: RMS  
DRAFT: DEB  
APPROVE: SMW  
DATE:

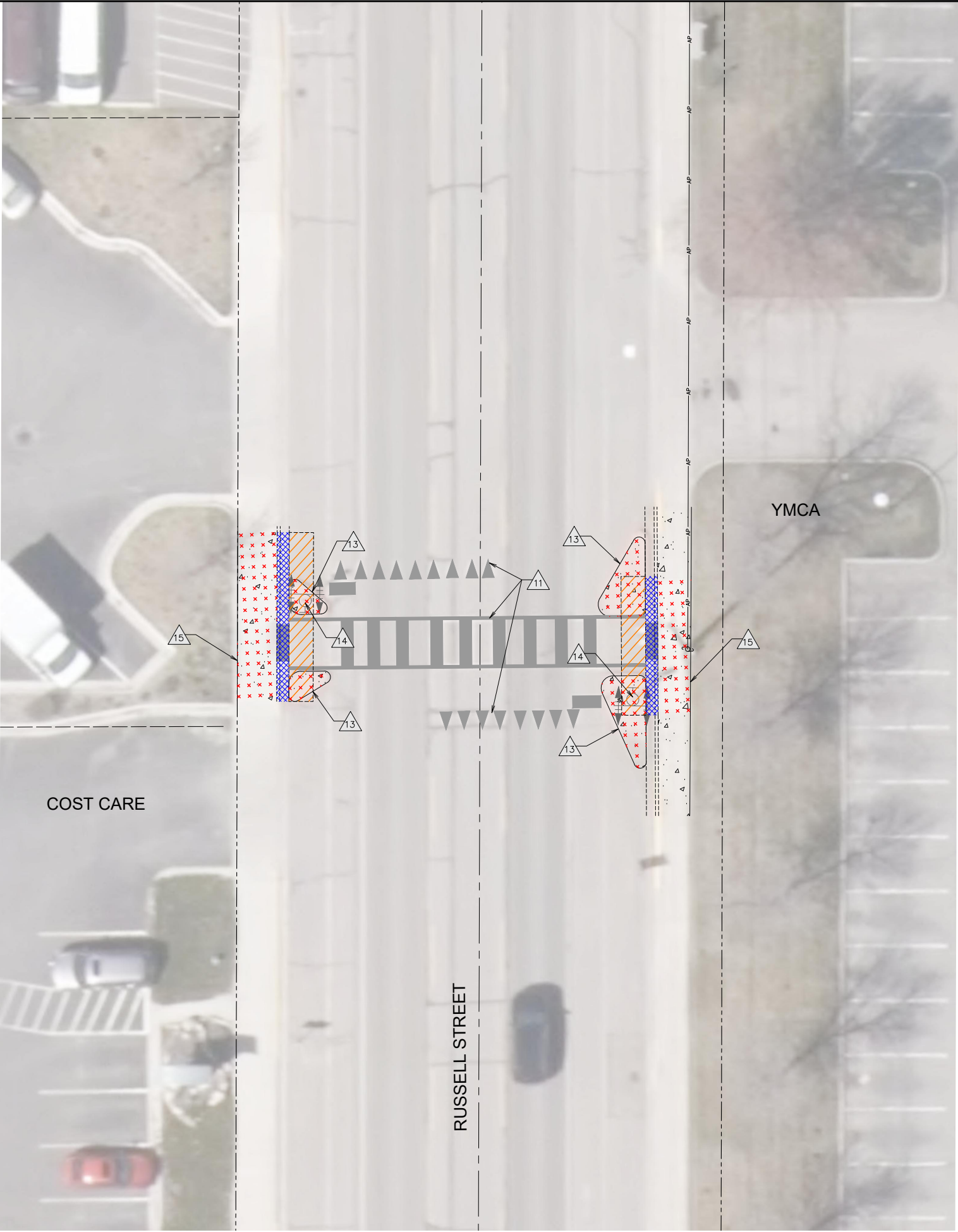
JANUARY 23, 2023

C1.3

SHEET

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LEGEND-DEMOLITION

- ASPHALT SAW CUT LINE
- ASPHALT REMOVAL AREA
- CONCRETE REMOVAL AREA
- CURB REMOVAL

GENERAL NOTES:

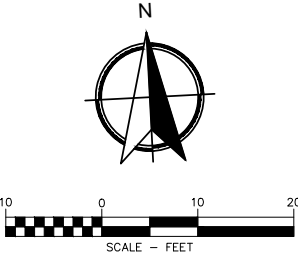
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DEMOLITION NOTES:

- 1. PROTECT EXISTING SIDEWALK
- 2. PROTECT EXISTING CURB
- 3. PROTECT EXISTING UTILITY
- 4. PROTECT EXISTING SUMP, INLET OR MANHOLE
- 5. PROTECT EXISTING TREE
- 6. PROTECT EXISTING SIGN
- 7. PROTECT EXISTING LUMINAIRE
- 8. PROTECT EXISTING POWER POLE
- 9. PROTECT EXISTING FIRE HYDRANT
- 10. RELOCATE UTILITY POLE. CITY OF MISSOULA TO COORDINATE WITH NORTHWESTERN ENERGY
- 11. REMOVE EXISTING PAVEMENT MARKINGS. REMOVAL METHOD TO BE APPROVED BY THE ENGINEER.
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- 17. REMOVE SUMP AND SUMP ROCK. BACKFILL IN 1.0' LIFTS WITH SUITABLE BACKFILL MATERIAL AND COMPACT TO 99% PROCTOR DENSITY.



PRELIMINARY

PLOTTED: 1/20/23  
SAVED: 1/20/23

STAGE 3 PLANS

DEMOLITION PLAN  
RUSSELL COMMUTER TRAIL CROSSING  
MISSOULA, MONTANA

REVISIONS:		
NO.	DESCRIPTION	DATE

PROJECT: 21-06-02  
LAYOUT: C1.4  
SURVEYED: WGM GROUP  
DESIGN: RMS  
DRAFT: DEB  
APPROVE: SMM  
DATE:

JANUARY 23, 2023

SHEET

C1.4

FILE: W:\Projects\210602\CAD Data\Design\210602DM.dwg



PLOTTED: 1/20/23  
SAVED: 1/20/23

RUSSELL COMMUTER TRAIL CROSSING  
MISSOULA, MONTANA

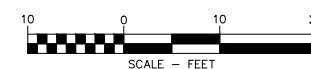
# SITE PLAN










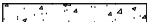

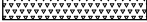








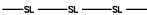








REVISIONS:		
NO.	DESCRIPTION	DATE

PROJECT: 21-06-02  
LAYOUT: C2.0  
SURVEYED: WGM GROUP  
DESIGN: RMS  
DRAFT: DEB  
APPROVE: SMM  
DATE:

JANUARY 23, 2023

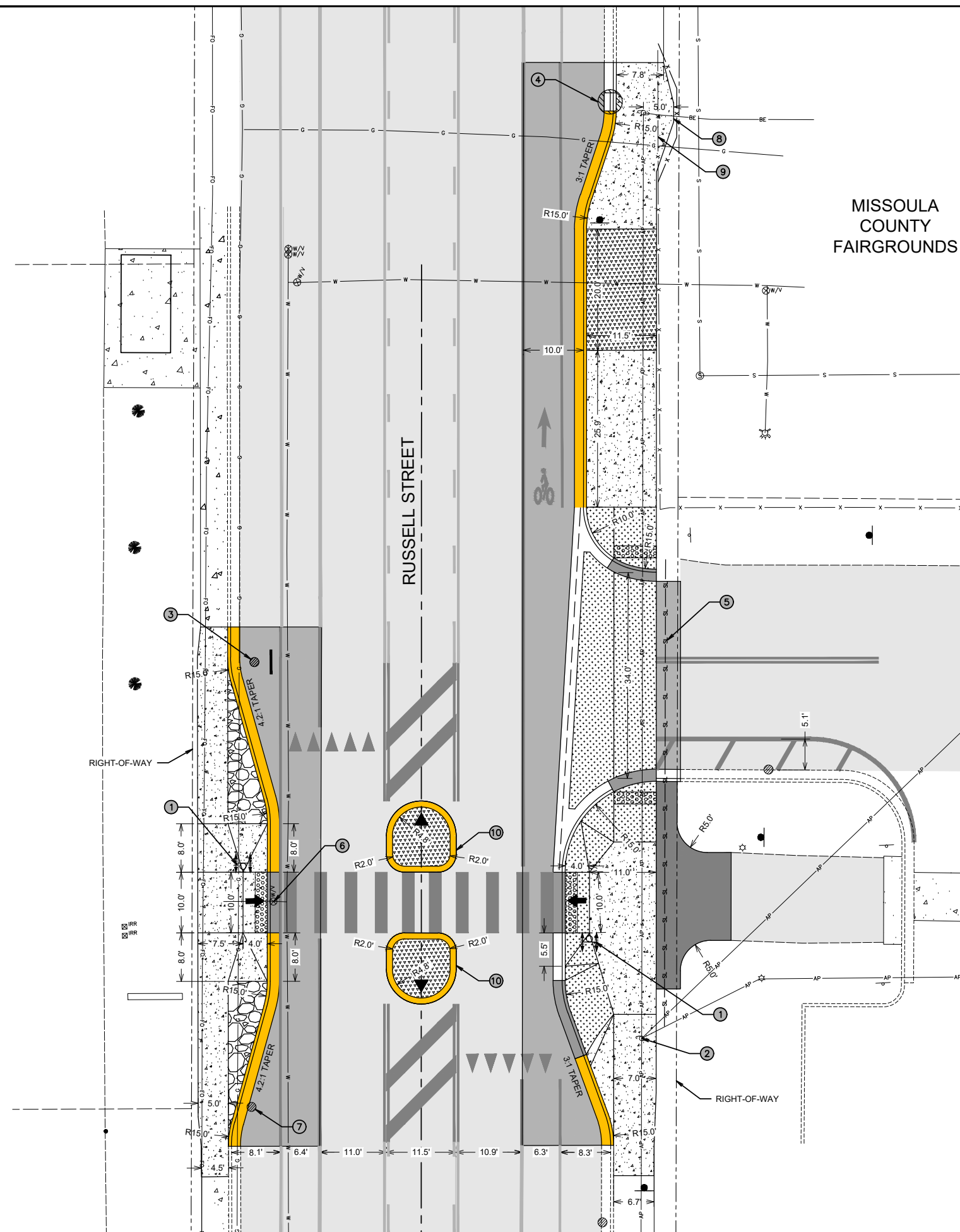
C2.0



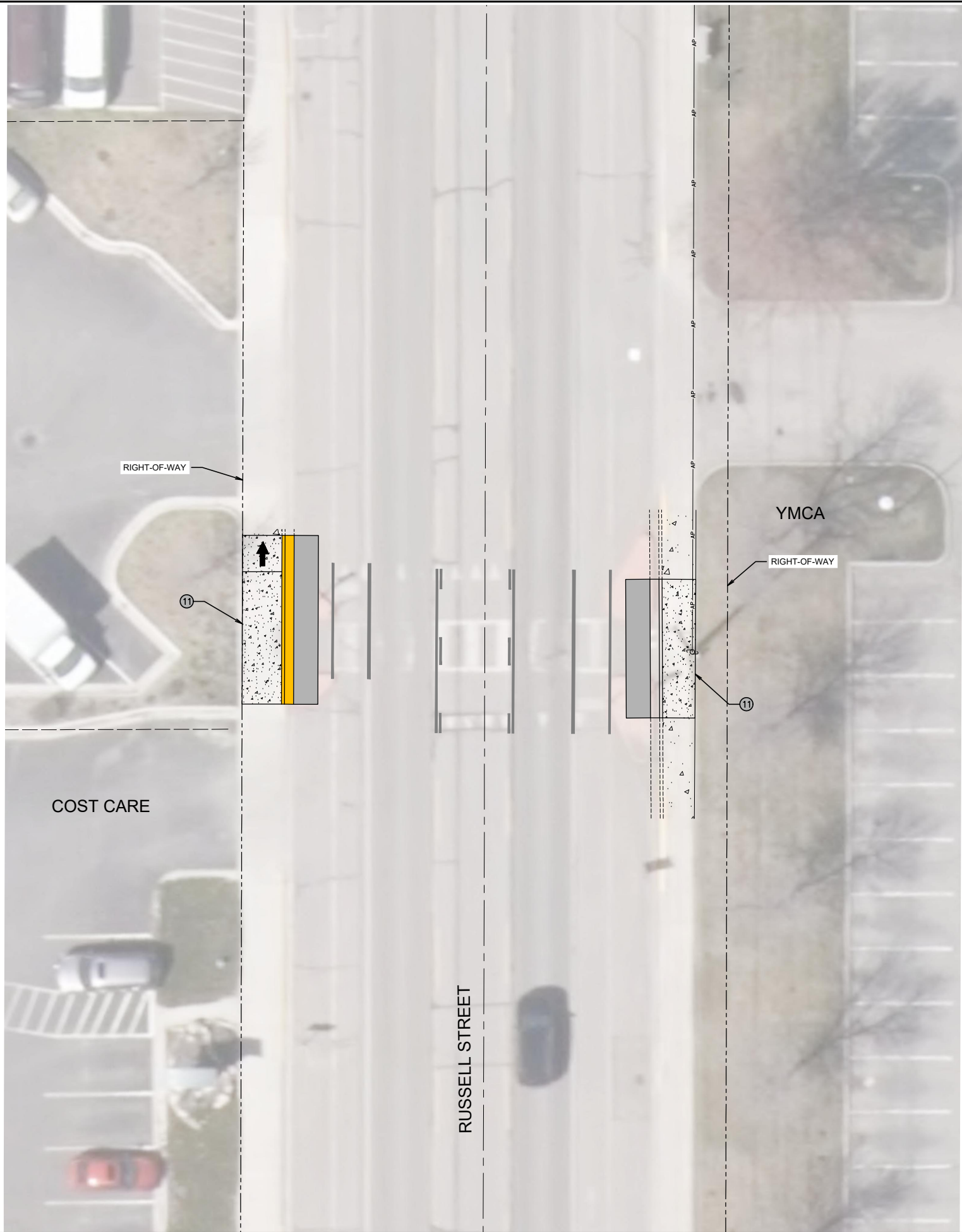
LEGEND-PROPOSED		DETAIL INDEX	
	CURB AND GUTTER (CATCH)		TYPICAL "L" TYPE CURB/GUTTER
	VALLEY GUTTER		TYPICAL 2' VALLEY GUTTER
	MEDIAN CURB		CONCRETE MEDIAN CURB
	CURB EPOXY		
	CURB AND GUTTER W/LAYDOWN OPENING		MODIFIED "L" TYPE CURB/GUTTER
	4" THICK CONCRETE SIDEWALK		TYPICAL SIDEWALK SECTION
	6" THICK CONCRETE SIDEWALK		
	8" THICK CONCRETE SIDEWALK		
	ASPHALT		SEE SHEET C4.2 FOR ROAD TYPICAL SECTION
			SHARED-USE PATH SECTION
			PARKING LOT ASPHALT SECTION
	DRAINAGE INLET (AREA DRAIN)		8" SUMP DETAIL
	DRAINAGE INLET (CURB BACKED)		
	3" DEPTH 1-1/2" CRUSHED RIVER ROCK	<b>MISC DETAILS</b>	
	CONDUIT FOR FUTURE LIGHTING		DETECTABLE WARNING PANEL
	SIGN		CURB RAMP DETAILS
	RECTANGULAR RAPID FLASHING BEACON (RRFB)		ASPHALT CUTTING, REMOVAL, AND REPLACEMENT
	FLEXIBLE SURFACE MOUNT DELINEATOR		
	ADA DETECTABLE WARNING DEVICE		
	ADA RAMP		

KEY NOTES:

- 1 INSTALL NEW SIGN POST FOR RELOCATED RECTANGULAR RAPID FLASHING BEACON (RRFB) FROM YMCA CROSSING. RELOCATION OF RRFB WILL BE BY OTHERS. REFER TO SHEET C5.0-C5.1 FOR MORE INFORMATION.
- 2 CITY OF MISSOULA TO COORDINATE WITH NORTHWESTERN ENERGY FOR UTILITY POLE RELOCATION.
- 3 INSTALL 8' DEEP SUMP APPROXIMATELY 2.5' ON CENTER FROM ADJACENT GAS LINE. ROTATE CONE OF SUMP STRUCTURE AWAY FROM GAS LINE. CONNECT INSTALL BLUE BOARD EAST OF SUMP TO CREATE BARRIER BETWEEN SUMP AND WATER MAIN TO EAST.
- 4 INSTALL 8' DEEP SUMP. ROTATE CONE OF SUMP STRUCTURE AWAY FROM UTILITY POLE WITHIN SIDEWALK. COORDINATE WITH NORTHWESTERN ENERGY TO BRACE POLE DURING CONSTRUCTION.
- 5 INSTALL 4" SCHEDULE 40 PVC CONDUIT FOR FUTURE LIGHTING.
- 6 ADJUST WATER VALVE TO FINISHED GRADE.
- 7 ADJUST EXISTING SUMP ELEVATION TO FINISHED GRADE. WARP ADJACENT ASPHALT TO ENSURE POSITIVE DRAINAGE TO SUMP FROM EXISTING CURB TO THE SOUTH OF PROPOSED IMPROVEMENTS.
- 8 ENSURE 4' WIDE ACCESSIBLE ROUTE ADJACENT TO EXISTING UTILITY POLE.
- 9 ADJUST CHAIN LINK FENCE ROUTING AROUND SIDEWALK IMPACTS.
- 10 INSTALL CONCRETE MEDIAN CURB ON TOP OF EXISTING ASPHALT. REFER TO CONCRETE MEDIAN CURB DETAIL ON SHEET C4.1 FOR INSTALLATION.
- 11 CONTRACTOR TO FIELD FIT INSTALLATION OF FULL HEIGHT CURB AND SIDEWALK THROUGH CURB AND SIDEWALK REPLACEMENT AREA. ENSURE SIDEWALK HAS POSITIVE DRAINAGE AND CROSS SLOPE DOES NOT EXCEED 2%. SIDEWALK RAMP SHALL NOT EXCEED 8% RUNNING SLOPE.



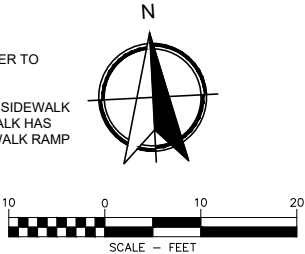




LEGEND-PROPOSED	DETAIL INDEX
<div><div></div><div>CURB AND GUTTER (CATCH)</div></div> <div><div></div><div>VALLEY GUTTER</div></div> <div><div></div><div>MEDIAN CURB</div></div> <div><div></div><div>CURB EPOXY</div></div>	<div><div>2</div><div>C4.0</div><div>TYPICAL "L" TYPE CURB/GUTTER</div></div> <div><div>8</div><div>C4.0</div><div>TYPICAL 2' VALLEY GUTTER</div></div> <div><div>1</div><div>C4.1</div><div>CONCRETE MEDIAN CURB</div></div>
<div><div></div><div>CURB AND GUTTER W/LAYDOWN OPENING</div></div>	<div><div>3</div><div>C4.0</div><div>MODIFIED "L" TYPE CURB/GUTTER</div></div>
<div><div></div><div>4" THICK CONCRETE SIDEWALK</div></div> <div><div></div><div>6" THICK CONCRETE SIDEWALK</div></div> <div><div></div><div>8" THICK CONCRETE SIDEWALK</div></div>	<div><div>6</div><div>C4.0</div><div>TYPICAL SIDEWALK SECTION</div></div>
<div><div></div><div>ASPHALT</div></div>	<div><div>SEE SHEET C4.2 FOR ROAD TYPICAL SECTION</div></div> <div><div>2</div><div>C4.1</div><div>SHARED-USE PATH SECTION</div></div> <div><div>3</div><div>C4.1</div><div>PARKING LOT ASPHALT SECTION</div></div>
<div><div></div><div>DRAINAGE INLET (AREA DRAIN)</div></div> <div><div></div><div>DRAINAGE INLET (CURB BACKED)</div></div>	<div><div>8</div><div>C4.1</div><div>8' SUMP DETAIL</div></div>
<div><div></div><div>3" DEPTH 1-1/2" CRUSHED RIVER ROCK</div></div> <div><div></div><div>CONDUIT FOR FUTURE LIGHTING</div></div> <div><div></div><div>SIGN</div></div> <div><div></div><div>RECTANGULAR RAPID FLASHING BEACON (RRFB)</div></div> <div><div></div><div>FLEXIBLE SURFACE MOUNT DELINEATOR</div></div> <div><div></div><div>ADA DETECTABLE WARNING DEVICE</div></div> <div><div></div><div>ADA RAMP</div></div>	<div><div>MISC DETAILS</div></div> <div><div>1</div><div>C4.0</div><div>DETECTABLE WARNING PANEL</div></div> <div><div>3</div><div>C4.0</div><div>CURB RAMP DETAILS</div></div> <div><div>5</div><div>C4.0</div><div>ASPHALT CUTTING, REMOVAL, AND REPLACEMENT</div></div>

KEY NOTES:

- 1
- INSTALL NEW SIGN POST FOR RELOCATED RECTANGULAR RAPID FLASHING BEACON (RRFB) FROM YMCA CROSSING. RELOCATION OF RRFB WILL BE BY OTHERS. REFER TO SHEET C5.0-C5.1 FOR MORE INFORMATION.
- 2
- CITY OF MISSOULA TO COORDINATE WITH NORTHWESTERN ENERGY FOR UTILITY POLE RELOCATION.
- 3
- INSTALL 8" DEEP SUMP APPROXIMATELY 2.5' ON CENTER FROM ADJACENT GAS LINE. ROTATE CONE OF SUMP STRUCTURE AWAY FROM GAS LINE. CONNECT INSTALL BLUE BOARD EAST OF SUMP TO CREATE BARRIER BETWEEN SUMP AND WATER MAIN TO EAST.
- 4
- INSTALL 8" DEEP SUMP. ROTATE CONE OF SUMP STRUCTURE AWAY FROM UTILITY POLE WITHIN SIDEWALK. COORDINATE WITH NORTHWESTERN ENERGY TO BRACE POLE DURING CONSTRUCTION.
- 5
- INSTALL 4" SCHEDULE 40 PVC CONDUIT FOR FUTURE LIGHTING.
- 6
- ADJUST WATER VALVE TO FINISHED GRADE.
- 7
- ADJUST EXISTING SUMP ELEVATION TO FINISHED GRADE. WARP ADJACENT ASPHALT TO ENSURE POSITIVE DRAINAGE TO SUMP FROM EXISTING CURB TO THE SOUTH OF PROPOSED IMPROVEMENTS.
- 8
- ENSURE 4' WIDE ACCESSIBLE ROUTE ADJACENT TO EXISTING UTILITY POLE.
- 9
- ADJUST CHAIN LINK FENCE ROUTING AROUND SIDEWALK IMPACTS.
- 10
- INSTALL CONCRETE MEDIAN CURB ON TOP OF EXISTING ASPHALT. REFER TO CONCRETE MEDIAN CURB DETAIL ON SHEET C4.1 FOR INSTALLATION.
- 11
- CONTRACTOR TO FIELD FIT INSTALLATION OF FULL HIEIGHT CURB AND SIDEWALK THROUGH CURB AND SIDEWALK REPLACEMENT AREA. ENSURE SIDEWALK HAS POSITIVE DRAINAGE AND CROSS SLOPE DOES NOT EXCEED 2%. SIDEWALK RAMP SHALL NOT EXCEED 8% RUNNING SLOPE.



PRELIMINARY  
PLOTTED: 1/23/23  
SAVED: 1/20/23  
STAGE 3 PLANS

SITE PLAN  
RUSSELL COMMUTER TRAIL CROSSING  
MISSOULA, MONTANA

REVISIONS:		
NO.	DESCRIPTION	DATE

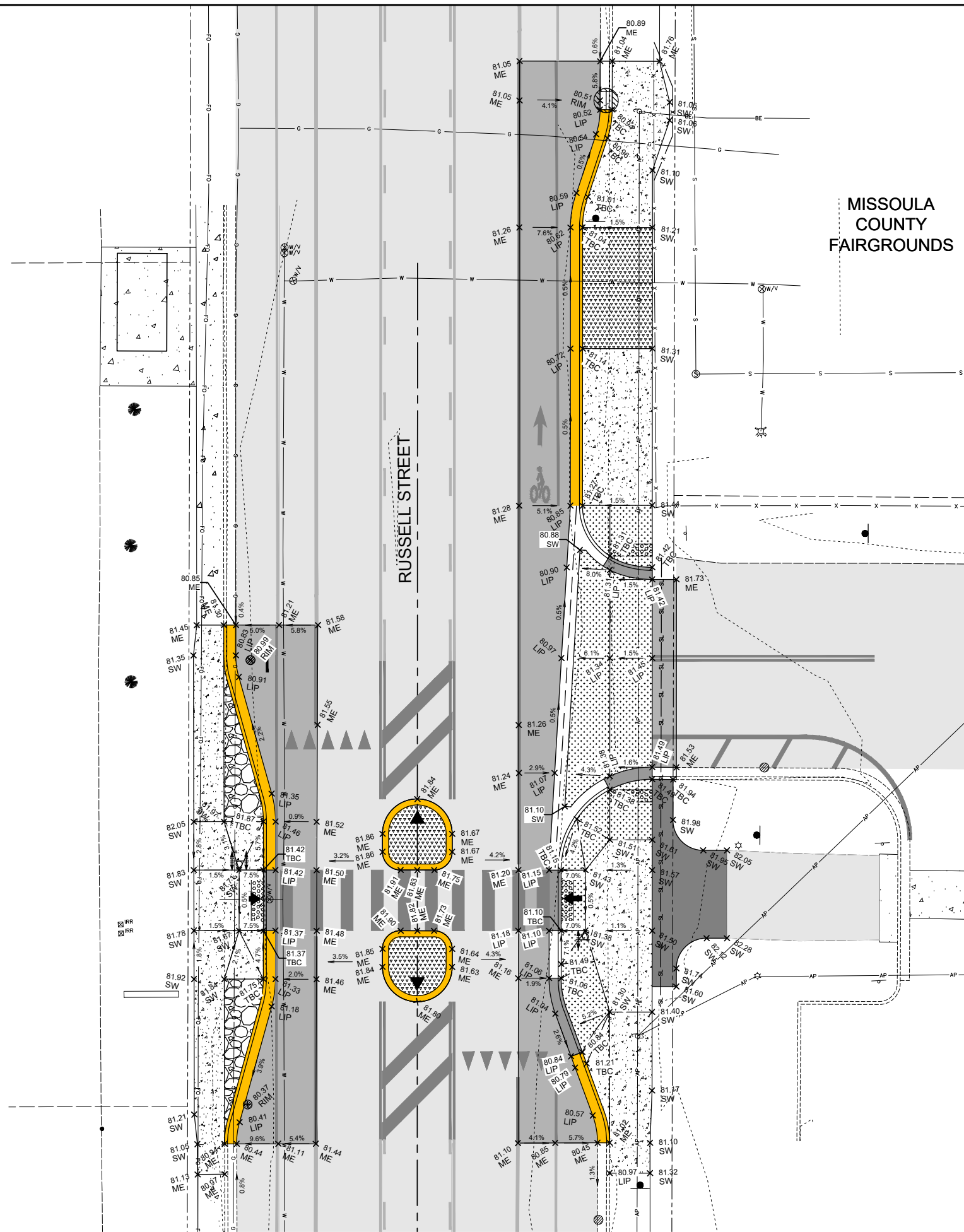
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LAYOUT: C2.1  
SURVEYED: WGM GROUP  
DESIGN: RMS  
DRAFT: DEB  
APPROVE: SMH  
DATE:

JANUARY 23, 2023

C2.1

SHEET

FILE: W:\Projects\210602\CAD Data\Design\210602SP.dwg



LEGEND-GRADING

- X 72.50 PROPOSED FINISH GRADE (+3100')
- 1.4% PROPOSED SLOPE
- RIM SUMP RIM ELEVATION
- TBC TOP BACK OF CURB
- SW TOP OF SIDEWALK
- LIP LIP OF CURB
- ME MATCH EXISTING
- CATCH CURB (LIP+0.42')

NOTE: ALL ELEVATIONS ARE LIP OF CURB/TOP OF ASPHALT UNLESS OTHERWISE NOTED

MISSOULA COUNTY FAIRGROUNDS

GENERAL CONSTRUCTION NOTES: (THIS SHEET)

- 1) GRADING AND SLOPE INFORMATION PRESENTED ON THIS SHEET IS BASED ON DESIGN GRADES AND BEST AVAILABLE MAPPING INFORMATION. EXISTING ELEVATIONS AT TIE IN POINTS SHALL BE VERIFIED PRIOR TO INSTALLATION OF NEW IMPROVEMENTS. NOTIFY ENGINEER IF DIFFERENT CONDITIONS ARE FOUND. CONTRACTOR RESPONSIBLE FOR ENSURING POSITIVE DRAINAGE ALONG SIDEWALKS. CONTRACTOR ALSO RESPONSIBLE FOR ADA COMPLIANCE FOR CONSTRUCTED IMPROVEMENTS.
- 2) WHERE NEW CURB AND GUTTER IS BEING CONSTRUCTED ADJACENT TO EXISTING ASPHALT OR CONCRETE PAVEMENT, THE FOLLOWING SHALL APPLY: PRIOR TO PLACEMENT OF ANY CONCRETE THE CONTRACTOR SHALL HAVE A LICENSED SURVEYOR VERIFY THE GRADE AND CROSS SLOPE OF THE CURB AND GUTTER FORMS. THE CONTRACTOR SHALL SUBMIT THE SLOPES AND GRADES TO THE ENGINEER FOR APPROVAL PRIOR TO PLACEMENT OF CONCRETE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY SECTION WHICH DOES NOT CONFORM TO THE DESIGN OR TYPICAL CROSS SECTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CURB AND GUTTER CONSTRUCTION WITHOUT THE APPROVAL OF THE ENGINEER.
- 3) THIS PLAN IS TO BE USED TO ASSIST THE CONTRACTOR IN HORIZONTAL LOCATION DURING THE STAKING AND LAYOUT. IF THE CONTRACTOR DISCOVERS ANY DISCREPANCY BETWEEN THE GIVEN DATA AND THE INTENT AS SHOWN BY THE DRAWING, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR CLARIFICATION.



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PRELIMINARY

PLOTTED: 1/20/23  
SAVED: 1/20/23

STAGE 3 PLANS

GRADING PLAN  
RUSSELL COMMUTER TRAIL CROSSING  
MISSOULA, MONTANA

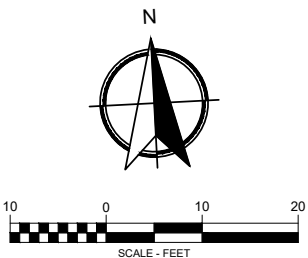
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NO.	DESCRIPTION	DATE

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LAYOUT: C3.0  
SURVEYED: WGM GROUP  
DESIGN: RMS  
DRAFT: DEB  
APPROVE: SMW  
DATE:

JANUARY 23, 2023

C3.0

SHEET



FILE: W:\Projects\210602\CAD Data\Design\210602GP.dwg





WGM GROUP  
WWW.WGMGROUP.COM

PRELIMINARY

PLOTTED: 1/20/23  
SAVED: 1/20/23

STAGE 3 PLANS

CIVIL DETAILS  
RUSSELL COMMUTER TRAIL CROSSING  
MISSOULA, MONTANA

REVISIONS:  
NO. DESCRIPTION DATE

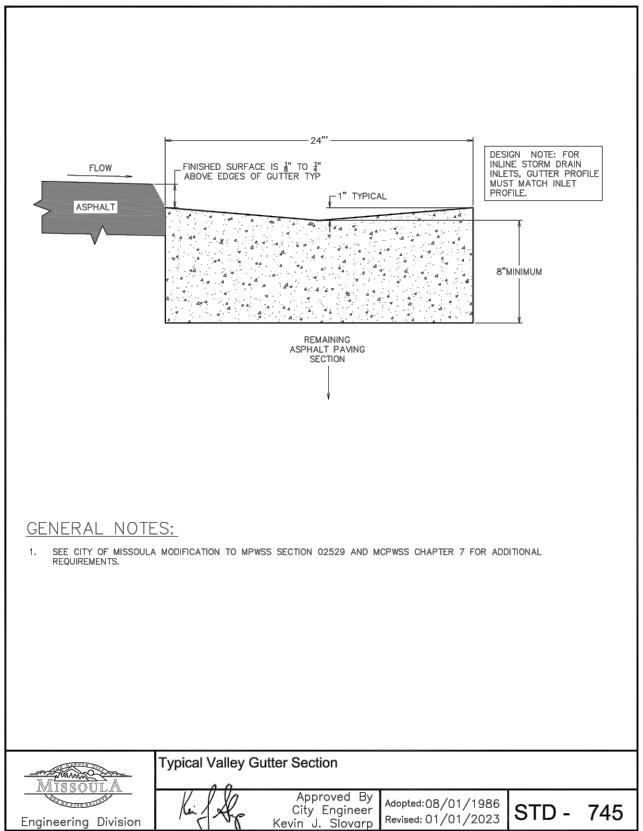
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DRAFT: DEB  
APPROVE: SMH  
DATE:

JANUARY 23, 2023

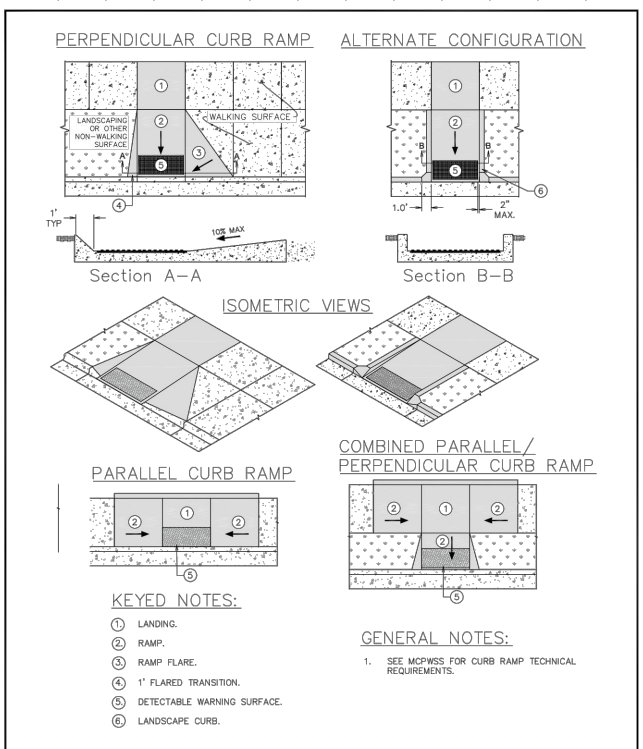
C4.0

SHEET

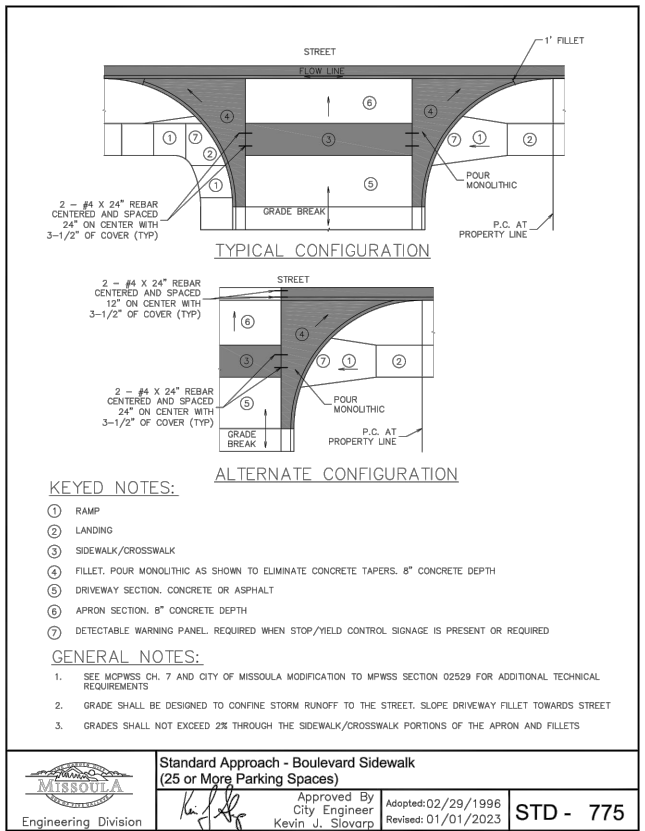
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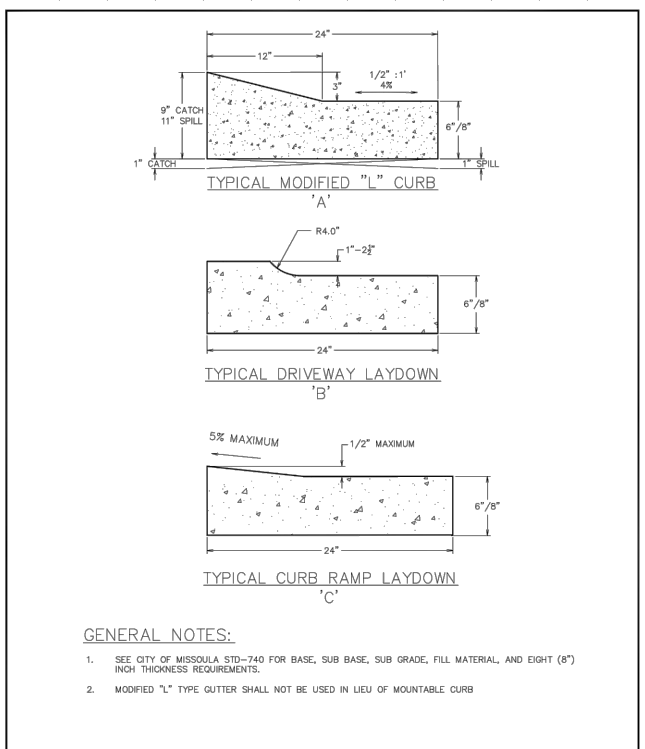
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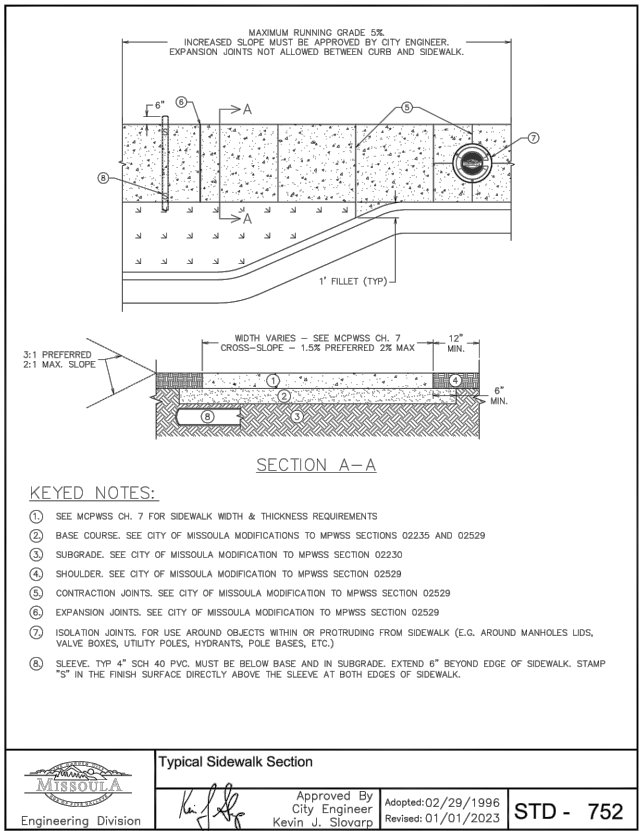
Engineering Division	Approved By City Engineer Kevin J. Slovorp	Adopted: 01/30/1980 Revised: 01/01/2023	STD - 751-1
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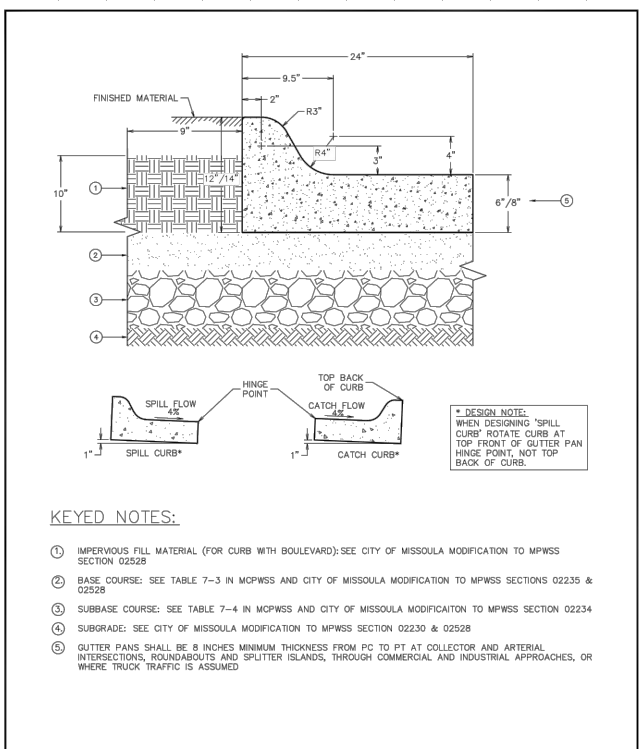
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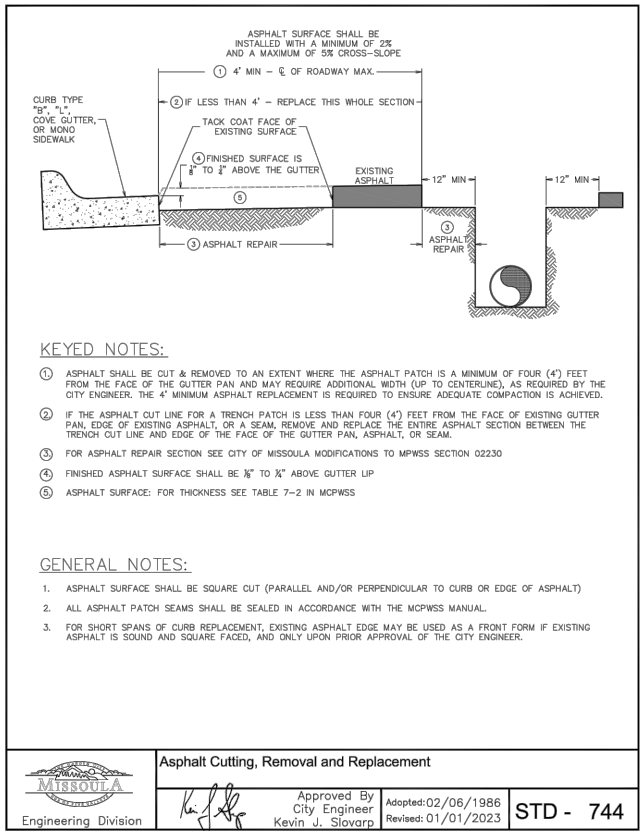
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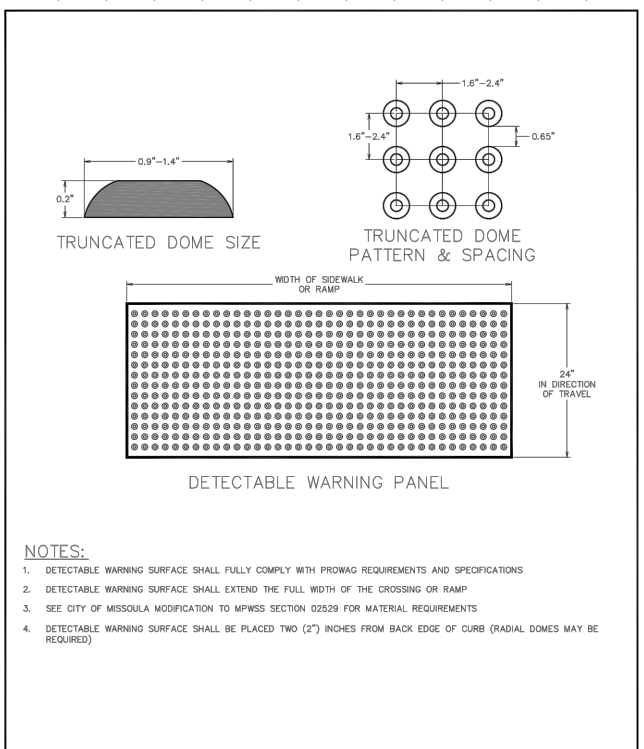
Engineering Division	Approved By City Engineer Kevin J. Slovorp	Adopted: 02/29/1996 Revised: 01/01/2023	STD - 752
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Engineering Division	Approved By City Engineer Kevin J. Slovorp	Adopted: 01/30/1980 Revised: 01/01/2023	STD - 740
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Engineering Division	Approved By City Engineer Kevin J. Slovorp	Adopted: 02/06/1986 Revised: 01/01/2023	STD - 744
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Engineering Division	Approved By City Engineer Kevin J. Slovorp	Adopted: 03/12/2004 Revised: 01/01/2023	STD - 750
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WWW.WGMGROUP.COM

PRELIMINARY

PLOTTED: 1/20/23  
SAVED: 1/20/23

STAGE 3 PLANS

RUSSELL COMMUTER TRAIL CROSSING

MISSOULA, MONTANA

CIVIL DETAILS

REVISIONS:  
NO. DESCRIPTION DATE

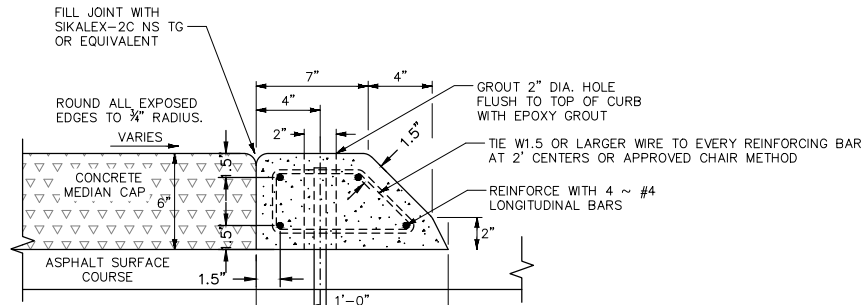
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LAYOUT: C4.1  
SURVEYED: WGM GROUP  
DESIGN: RMS  
DRAFT: DEB  
APPROVE: SM  
DATE:

JANUARY 23, 2023

C4.1

SHEET

FILE: W:\Projects\210602\CAD Data\Design\21060201.dwg



QUANTITIES (FOR ESTIMATING PURPOSES ONLY):  
CONCRETE = 0.015 C.Y. PER 1.0' OF CURB

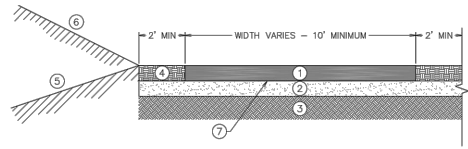
CONSTRUCTION:

- CURBS MAY BE CONSTRUCTED USING ANY OF THE FOLLOWING THREE METHODS:  
A) PRECAST  
B) CAST IN PLACE  
C) CONSTRUCTED BY THE USE OF AN APPROVED CURB FORMING OR SLIP FORM MACHINE
- WHEN USING EITHER METHOD B OR C, REINFORCING STEEL IS NOT REQUIRED, WITH THE EXCEPTION OF THE PINS. SCORE OR SAW CUT CURBS TO A DEPTH OF 1" TO FORM CONTRACTION JOINTS AT INTERVALS OF 10 FT OR LESS. EXTEND 1 1/2" MIN. WIDTH EXPANSION JOINTS COMPLETELY THROUGH CURB EVERY 100 FT AT INTERVALS EQUAL TO THE NEAREST MULTIPLE OF THE CONTRACTION JOINT INTERVAL AND FILL WITH APPROVED PREFORMED EXPANSION JOINT FILLER.
- FORM PRECAST CURBS IN THEIR INVERTED POSITION, IN LENGTHS NOT LESS THAN 4 FT, OR MORE THAN 10 FT.

MATERIAL:

- CONSTRUCT CURBS WITH CLASS GENERAL CONCRETE OR AN APPROVED EQUIVALENT MIX.
- EPOXY BINDER FOR GROUTING MUST MEET THE REQUIREMENTS OF AASHTO M 235 (ASTM C 881)

1  
C4.1  
CONCRETE MEDIAN CURB  
NO SCALE



KEYED NOTES:

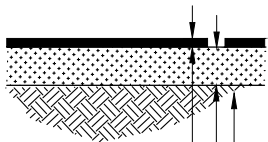
- SURFACING: WHEN ASPHALT IS SPECIFIED, IT SHALL BE A MINIMUM OF 3 INCHES THICKNESS OF GRADE C, PG 58-28 MIX IN ACCORDANCE WITH CITY OF MISSOULA MODIFICATION TO MPWSS SECTION 02510. WHEN CONCRETE IS SPECIFIED, SEE THE MATERIAL AND THICKNESS REQUIREMENTS OF CITY OF MISSOULA MODIFICATION TO THE MPWSS SECTION 02529 AND MPWSS CHAPTER 7 FOR CONCRETE SIDEWALKS.
- BASE COURSE: 6" MINIMUM (ASPHALT) OR 4" MINIMUM (CONCRETE) IN ACCORDANCE WITH CITY OF MISSOULA MODIFICATION TO MPWSS SECTION 02235.
- SUBGRADE: SEE CITY OF MISSOULA MODIFICATION TO MPWSS SECTION 02230.
- SHOULDER: MAX SLOPE SHALL BE 6H:1V AND SHALL BE FREE OF LATERAL OBSTRUCTIONS INCLUDING SIGNS, FENCES, BOULDERS, VEGETATION, STRUCTURES, AND SLOPES EXCEEDING 6:1. WHERE A LESS THAN 5' SHOULDER WIDTH IS ADJACENT TO A PARALLEL BODY OF WATER AND/OR A STEEP FORESLOPE (4:1), INCORPORATE A PHYSICAL BARRIER OR RAIL IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE AASHTO GUIDE FOR THE DEVELOPMENT OF BICYCLE FACILITIES, SECTION 5.2.1.
- FORESLOPES: MAXIMUM SLOPE SHALL BE LESS THAN 3:1.
- BACKSLOPES: MAXIMUM SLOPE SHALL BE LESS THAN 2:1.
- SOIL STERILANT SHALL BE A COMMERCIAL GRADE TRIFLURALIN (TREFLAN) AT A RATE OF 11 FLUID OUNCES PER 1,000 SQ FT OR DICHLOBENIL (CASORON 45) AT A RATE OF 6 LBS PER 1,000 SQ FT ON DRY SITES AND AQUATICALLY LABELED MAXAPHR (HASTAT) 1:1 FLUID OUNCES PER 1,000 SQ FT ON WET OR AQUATIC SITES. PAVE SHORTLY AFTER APPLICATION, WITH A MAXIMUM EXPOSURE TIME OF SIX HOURS.

GENERAL NOTES:

- SURFACING CROSS-SLOPE MAY BE CROWNED OR CONTINUOUS BASED ON DRAINAGE NEEDS AND SHALL NOT EXCEED THE ADA/PROWAG MAXIMUM RUNNING AND CROSS SLOPE.

Missoula Engineering Division  
Approved By  
City Engineer  
Kevin J. Slovay  
Adopted: 01/01/2023  
Revised:  
STD - 749

2  
C4.1  
SHARED-USE PATH SECTION  
NO SCALE

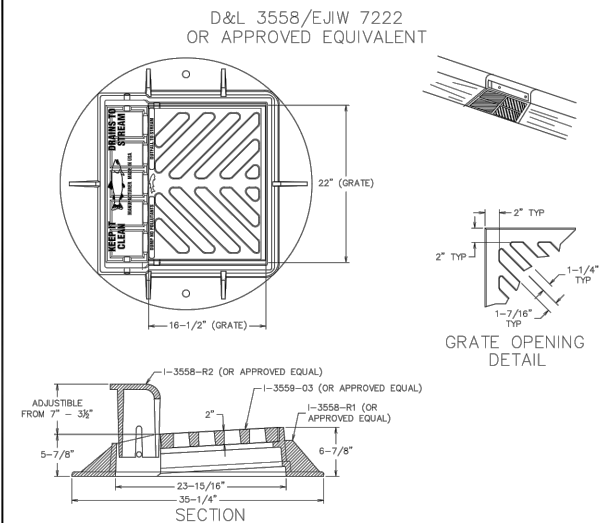


3" THICKNESS MPWSS ASPHALT CONCRETE SURFACE COURSE, TYPE "B"

6" THICKNESS OF 3/4" CRUSHED AGGREGATE BASE COURSE

SCARIFY, MOISTURE CONDITION, AND RECOMPACT TOP 8" OF SUBGRADE TO 95% AASHTO T-99 PROCTOR DENSITY.

3  
C4.1  
PARKING LOT ASPHALT SECTION  
NO SCALE

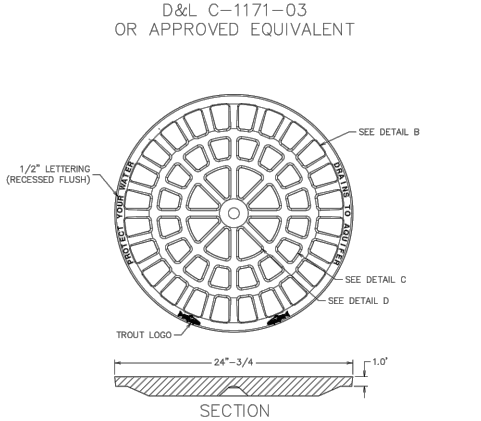


GENERAL NOTES:

- CONSTRUCTION MATERIALS AND PROCEDURES SHALL COMPLY WITH MONTANA PUBLIC WORKS STANDARD SPECIFICATIONS (MPWSS), 7TH EDITION, APRIL 2021, AS MODIFIED BY THE MISSOULA CITY PUBLIC WORKS STANDARDS AND SPECIFICATIONS MANUAL, APPENDIX 2-A (STANDARD MODIFICATIONS TO MPWSS), CURRENT EDITION.
- COMBINATION CURB INLET FRAME AND GRATE SHALL BE USED WHERE INLET OR DRY WELL IS LOCATED IN TYPICAL "L" TYPE CURB & GUTTER (STD-740).
- DUE TO PROVISIONS IN THE INTERMODAL SURFACE TRANSPORTATION ACT, VENDORS MUST AUTHENTICATE U.S. ORIGIN OF CASTINGS FOR FEDERALLY FUNDED PROJECTS.
- WAVED GRATE (D&L 1-3559-04 OR APPROVED EQUAL) SHALL BE USED WHEN SLOPE EXCEEDS 5%.
- PROVIDE LIDS AND RINGS THAT MEET AASHTO 306 H20 LOADING RATING OR HIGHER.
- COMPOSITE TAPERED GRADE RINGS SHALL BE USED TO MATCH FRAME & GRATE TO THE RUNNING SLOPE OF THE CURB.
- GRATE SHALL MATCH RUNNING SLOPE OF STREET.
- GROUT BOLT SLOTS LOCATED IN THE CURB LINE AND ALL OTHER OPENINGS TO BASE COURSE AND BACKFILL MATERIAL.

Missoula Engineering Division  
24" COMBINATION CURB INLET FRAME & GRATE  
Approved By  
Utility Engineer  
Andy Schultz, PE  
Adopted: 09/28/2020  
Revised: 01/01/2023  
STD - 601

4  
C4.1  
24" CURB INLET FRAME & GRATE  
NO SCALE

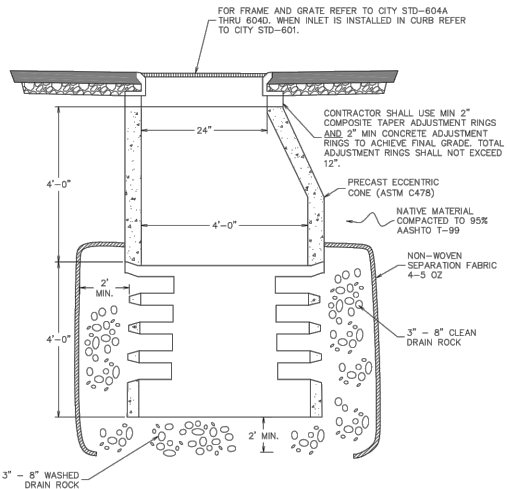


GENERAL NOTES:

- CONSTRUCTION MATERIALS AND PROCEDURES SHALL COMPLY WITH MONTANA PUBLIC WORKS STANDARD SPECIFICATIONS (MPWSS), 7TH EDITION, APRIL 2021, AS MODIFIED BY THE MISSOULA CITY PUBLIC WORKS STANDARDS AND SPECIFICATIONS MANUAL, APPENDIX 2-A (STANDARD MODIFICATIONS TO MPWSS), CURRENT EDITION.
- DUE TO PROVISIONS IN THE INTERMODAL SURFACE TRANSPORTATION ACT, VENDORS MUST AUTHENTICATE U.S. ORIGIN OF CASTINGS FOR FEDERALLY FUNDED PROJECTS.
- PROVIDE LIDS AND RINGS THAT MEET AASHTO 306 H20 LOADING RATING OR HIGHER.
- COMPOSITE TAPERED GRADE RINGS SHALL BE USED TO MATCH FRAME & GRATE TO THE CURB LINE CROSS SLOPE AND RUNNING SLOPE OR STREET CROSS SLOPE AND RUNNING SLOPE WHERE NOT IN CONCRETE.
- SEE STD-604A FOR STANDARD MANHOLE RING SPECIFICATIONS.

Missoula Engineering Division  
Area Drain Grate  
Approved By  
Utility Engineer  
Andy Schultz, PE  
Adopted: 09/28/2020  
Revised: 01/01/2023  
STD - 604C

5  
C4.1  
AREA DRAIN GRATE  
NO SCALE



GENERAL NOTES:

- CONSTRUCTION MATERIALS AND PROCEDURES SHALL COMPLY WITH MONTANA PUBLIC WORKS STANDARD SPECIFICATIONS (MPWSS), 7TH EDITION, APRIL 2021, AS MODIFIED BY THE MISSOULA CITY PUBLIC WORKS STANDARDS AND SPECIFICATIONS MANUAL, APPENDIX 2-A (STANDARD MODIFICATIONS TO MPWSS), CURRENT EDITION.
- OVER-EXCAVATE WHERE REQUIRED TO ENSURE BOTTOM OF EXCAVATION IS A MIN. 2'-FT INTO GRAVELLY SOIL.
- CATCH BASINS (STD-614) PIPED TO DRY WELLS ARE ENCOURAGED AS A PRE-TREATMENT METHOD OR TO AVOID UTILITY CONFLICTS.
- NO GRADE RING TO BE OFFSET MORE THAN 2" AND TOTAL OFFSET NOT TO EXCEED WALL THICKNESS OF CONE.
- GRADE RINGS SHALL BE 2" THICKNESS MINIMUM.
- NO WEDGES ALLOWED BETWEEN GRADE RINGS AND FRAME MUST BE SET FLUSH WITH TOP GRADE RING.

Missoula Engineering Division  
Standard 8' Precast Dry Well  
Approved By  
Utility Engineer  
Andy Schultz, PE  
Adopted: 09/28/2020  
Revised: 01/01/2023  
STD - 616

6  
C4.1  
STANDARD 8' PRECAST DRY WELL  
NO SCALE





WGM GROUP  
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PRELIMINARY

PLOTTED: 1/20/23  
SAVED: 1/20/23

STAGE 3 PLANS

TYPICAL SECTIONS  
RUSSEL COMMUTER TRAIL CROSSING  
MISSOULA, MONTANA

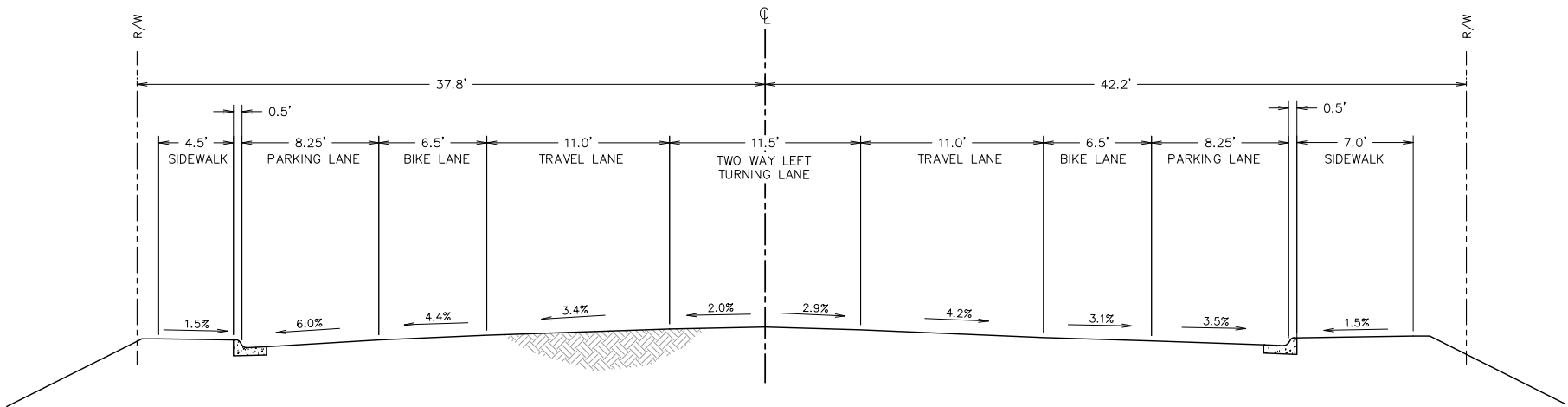
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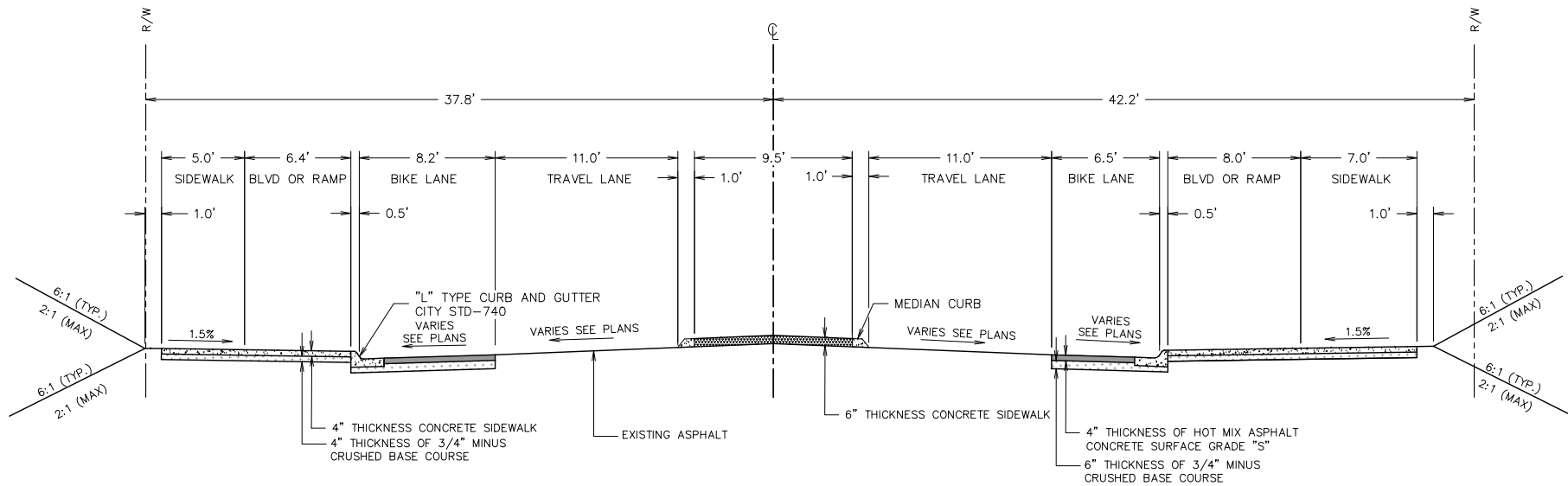
JANUARY 23, 2023

SHEET

C4.2



EXISTING TYPICAL SECTION



PROPOSED TYPICAL SECTION

NOTE: TYPICAL SECTION REPRESENTS GENERAL STREET WIDTHS AND CONDITIONS. STREET AND SIDEWALK WIDTHS AND GRADES WILL VARY THROUGH RECONSTRUCTION AREA.



WGM GROUP  
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PRELIMINARY

PLOTTED: 2/13/23  
SAVED: 1/23/23

STAGE 3 PLANS

SIGNING AND STRIPING PLAN  
RUSSELL COMMUTER TRAIL CROSSING  
MISSOULA, MONTANA

REVISIONS:  
NO. DESCRIPTION DATE

PROJECT: 21-06-02  
LAYOUT: C2.0  
SURVEYED: WGM GROUP  
DESIGN: RMS  
DRAFT: DEB  
APPROVE: SMM  
DATE:

JANUARY 23, 2023

C5.0

SHEET

FILE: W:\Projects\210602\CAD Data\Design\210602SN.dwg

LEGEND-SIGNING AND STRIPING		DETAIL INDEX	
	SIGN		1 SIGN BASE DETAIL
	RECTANGULAR RAPID FLASHING BEACON (RRFB)		2 STREET SIGN DETAIL
	FLEXIBLE SURFACE MOUNT DELINEATOR		3 SIGN LOCATION DETAIL
	CURB EPOXY		4 STREET MARKING DETAIL
	WHITE CROSSWALK STRIPING		5 BIKE LANE STRIPING DETAIL
	WHITE YIELD LINE STRIPING		6 CROSSWALK DETAIL
	MEDIAN STRIPING DETAIL		7 YIELD LINE DETAIL
			8 MEDIAN STRIPING DETAIL

KEY NOTES:

- 1 RELOCATION OF RECTANGULAR RAPID-REFLECTING BEACON (RRFB) FROM YMCA CROSSING BY OTHERS. INSTALL TRI-BOLT BREAKAWAY BASES WITH 3" ANCHOR SLEEVES.
- 2 12" WHITE WATERBORNE STRIPING
- 3 4" YELLOW WATERBORNE CENTERLINE STRIPING
- 4 REPLACE LANE STRIPING ALONG RUSSELL STREET WITH REMOVAL OF CROSSWALK AND YIELD LINE STRIPING. REFER TO STREET MARKING DETAIL.
- 5 INSTALL SIGN BASE AND ANCHOR SLEEVE FOR BUS STOP SIGN. CONTRACTOR TO COORDINATE WITH MOUNTAIN LINE TO OBTAIN/SELECT SIGN POST ANCHOR SLEEVE. MOUNTAIN LINE TO INSTALL BUS STOP SIGN ELEMENTS IN FUTURE OR MAY PROVIDE CONTRACTOR ALL REMAINING MATERIALS TO COMPLETE SIGN INSTALLATION.

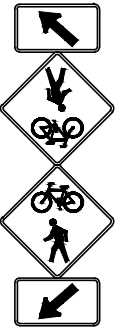
MISSOULA  
COUNTY  
FAIRGROUNDS

RUSSELL STREET

1 REPLACE  
(BY OTHERS)  
W11-2 (2)  
W16-7p (2)



1 REPLACE  
(BY OTHERS)  
W11-2 (2)  
W16-7p (2)



TRUCKS  
WITH  
TRAILERS  
NO  
RIGHT  
TURNS

NEW SPECIAL  
30x24

NEW SPECIAL  
30x24

TRUCKS  
WITH  
TRAILERS  
NO  
LEFT  
TURNS

NEW  
R1-2  
R9-5

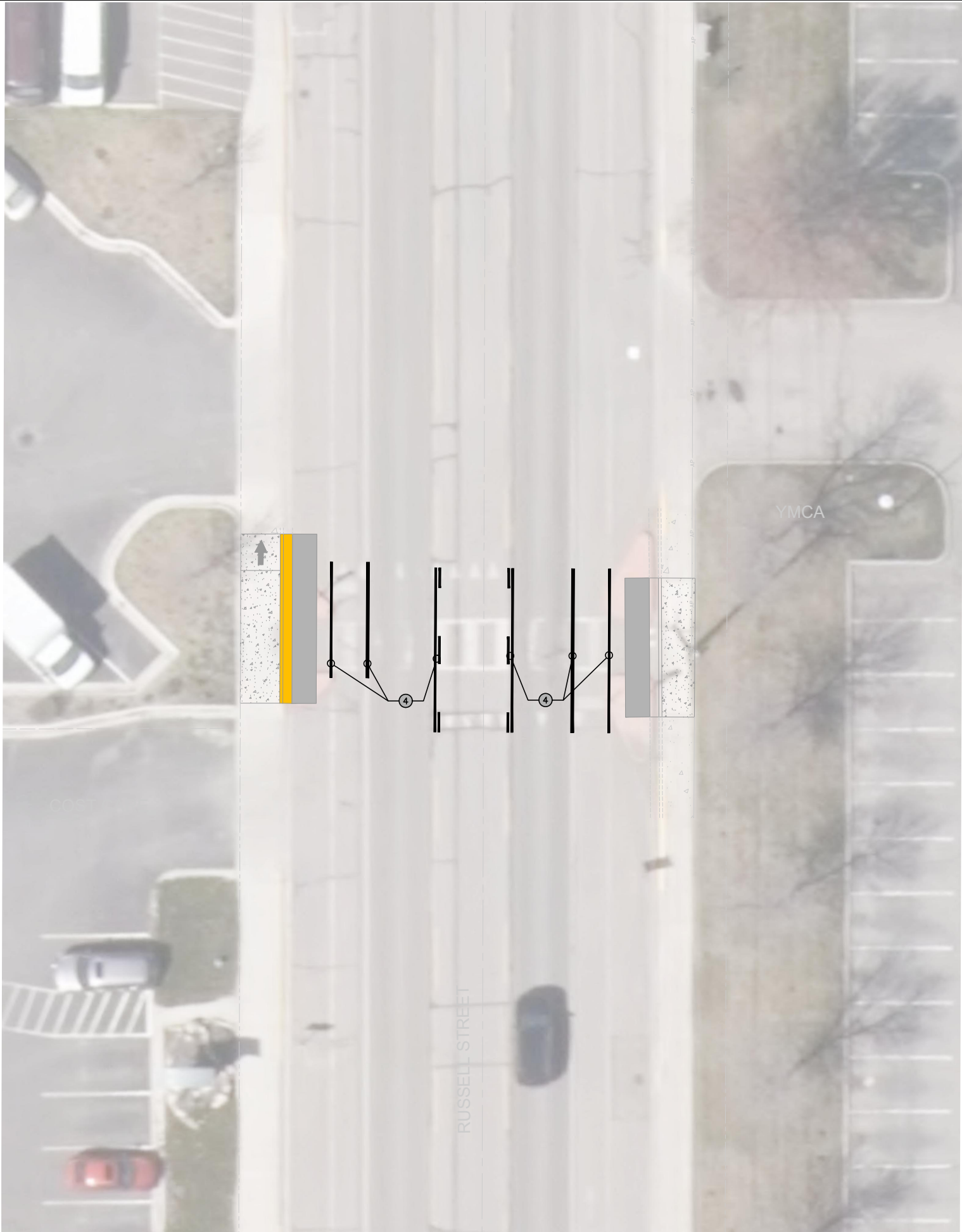

















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R1-1



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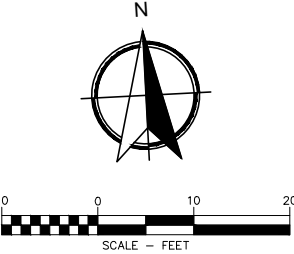




LEGEND-SIGNING AND STRIPING	DETAIL INDEX
 SIGN	 1 SIGN BASE DETAIL
 RECTANGULAR RAPID FLASHING BEACON (RRFB)	 2 STREET SIGN DETAIL
 FLEXIBLE SURFACE MOUNT DELINEATOR	 3 SIGN LOCATION DETAIL
 CURB EPOXY	 4 STREET MARKING DETAIL
 WHITE CROSSWALK STRIPING	 5 BIKE LANE STRIPING DETAIL
 WHITE YIELD LINE STRIPING	 6 CROSSWALK DETAIL
 MEDIAN STRIPING DETAIL	 7 YIELD LINE DETAIL
	 8 MEDIAN STRIPING DETAIL

KEY NOTES:

- 1 RELOCATION OF RECTANGULAR RAPID-REFLECTING BEACON (RRFB) FROM YMCA CROSSING BY OTHERS. INSTALL TRI-BOLT BREAKAWAY BASES WITH 3" ANCHOR SLEEVES.
- 2 12" WHITE WATERBORNE STRIPING
- 3 4" YELLOW WATERBORNE CENTERLINE STRIPING
- 4 REPLACE LANE STRIPING ALONG RUSSELL STREET WITH REMOVAL OF CROSSWALK AND YIELD LINE STRIPING. REFER TO STREET MARKING DETAIL.
- 5 INSTALL SIGN BASE AND ANCHOR SLEEVE FOR BUS STOP SIGN. CONTRACTOR TO COORDINATE WITH MOUNTAIN LINE TO OBTAIN/SELECT SIGN POST ANCHOR SLEEVE. MOUNTAIN LINE TO INSTALL BUS STOP SIGN ELEMENTS IN FUTURE OR MAY PROVIDE CONTRACTOR ALL REMAINING MATERIALS TO COMPLETE SIGN INSTALLATION.



PRELIMINARY  
PLOTTED: 1/23/23  
SAVED: 1/23/23  
STAGE 3 PLANS

SIGNING AND STRIPING PLAN  
RUSSELL COMMUTER TRAIL CROSSING  
MISSOULA, MONTANA

REVISIONS:		
NO.	DESCRIPTION	DATE

PROJECT: 21-06-02  
LAYOUT: C2.1  
SURVEYED: WGM GROUP  
DESIGN: RMS  
DRAFT: DEB  
APPROVE: SMM  
DATE:

JANUARY 23, 2023

SHEET C5.1

FILE: W:\Projects\210602\CAD Data\Design\210602SN.dwg



WGM GROUP  
WWW.WGMGROUP.COM

PRELIMINARY

PLOTTED: 1/20/23  
SAVED: 1/20/23

STAGE 3 PLANS

SIGNING AND STRIPING DETAILS  
RUSSELL COMMUTER TRAIL CROSSING  
MISSOULA, MONTANA

REVISIONS:		
NO.	DESCRIPTION	DATE

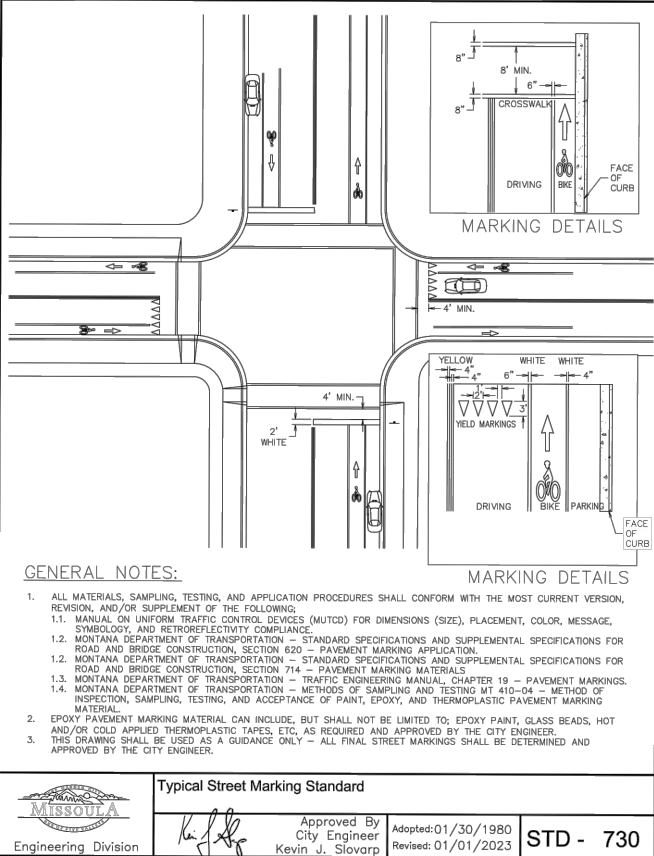
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LAYOUT: C5.2  
SURVEYED: WGM GROUP  
DESIGN: RMS  
DRAFT: DEB  
APPROVE: SM  
DATE:

JANUARY 23, 2023

C5.2

SHEET

FILE: W:\Projects\210602\CAD Data\Design\210602SN.dwg



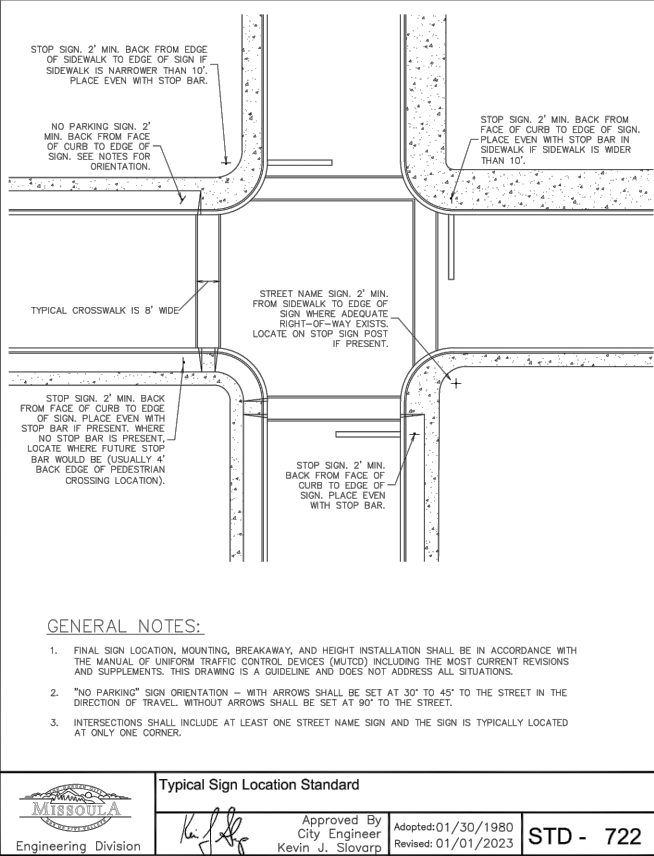
Typical Street Marking Standard

Approved By  
City Engineer  
Kevin J. Slovorp

Adopted: 01/30/1980  
Revised: 01/01/2023

STD - 730

4 STREET MARKING DETAIL  
C5.2 NOT TO SCALE



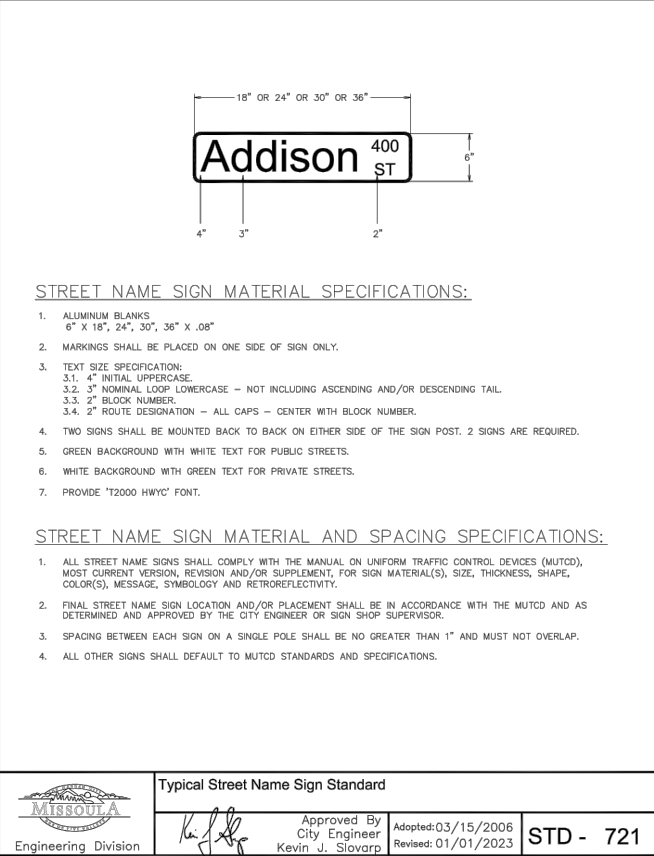
Typical Sign Location Standard

Approved By  
City Engineer  
Kevin J. Slovorp

Adopted: 01/30/1980  
Revised: 01/01/2023

STD - 722

3 SIGN LOCATION DETAIL  
C5.2 NOT TO SCALE



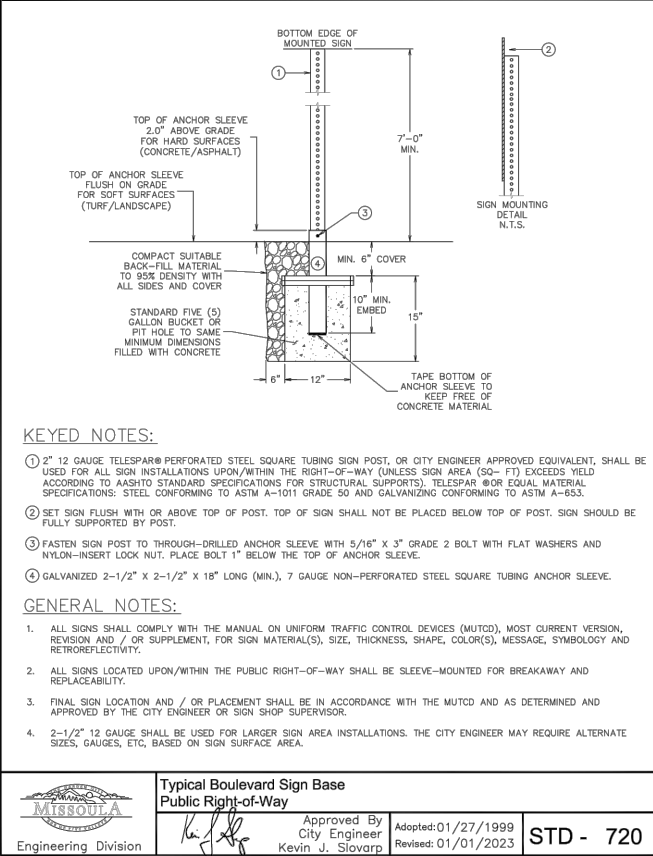
Typical Street Name Sign Standard

Approved By  
City Engineer  
Kevin J. Slovorp

Adopted: 03/15/2006  
Revised: 01/01/2023

STD - 721

2 STREET SIGN DETAIL  
C5.2 NOT TO SCALE



Typical Boulevard Sign Base  
Public Right-of-Way

Approved By  
City Engineer  
Kevin J. Slovorp

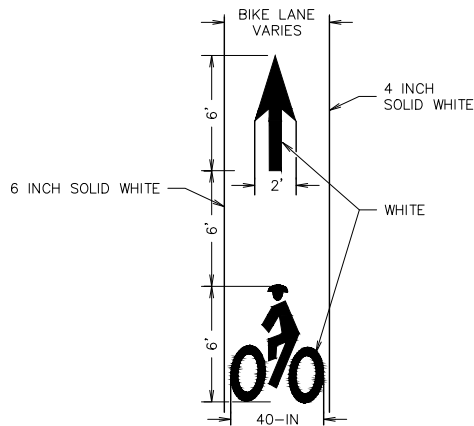
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Revised: 01/01/2023

STD - 720

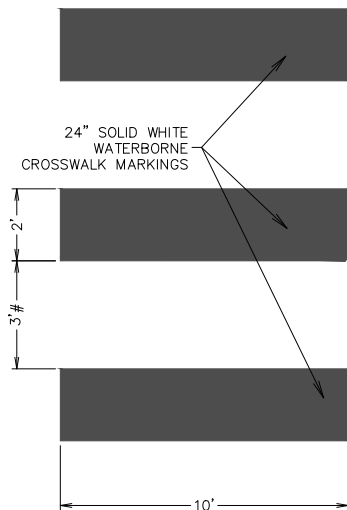
1 SIGN BASE DETAIL  
C5.2 NOT TO SCALE

NOTES

- PROVIDE INTERIM AND FINAL PAVEMENT MARKINGS IN ACCORDANCE WITH MUTCD (2009 EDITION).
- COMPLETELY REMOVE ALL EXISTING PAVEMENT MARKINGS THAT ARE IN CONFLICT WITH THE STRIPING SHOWN ON THESE PLANS. REMOVAL METHOD TO BE APPROVED BY THE ENGINEER.
- NEW SIGN PANELS SHALL BE SHEET ALUMINUM TYPE IV HIGH INTENSITY REFLECTIVE SHEETING FOR THE BACKGROUND, LEGEND AND BORDER AND GUIDE SIGNS SHALL REQUIRE TYPE IX HIGH INTENSITY REFLECTIVE SHEETING FOR THE LEGEND AND BORDER.
- SIGN LEGEND AND BACKGROUND COLORS SHALL BE IN ACCORDANCE WITH THE MUTCD (2009 EDITION).
- PROVIDE A MINIMUM OF 5 DAYS ADVANCE NOTICE TO THE ENGINEER WHEN SIGNS WILL BE FIELD LOCATED AND WHEN SIGNS WILL BE INSTALLED.
- SIGN MATERIALS AND CONSTRUCTION PROCEDURES SHALL CONFORM TO CITY OF MISSOULA REQUIREMENTS.
- PROVIDE SIGNS TO THE DIMENSIONS SHOWN.

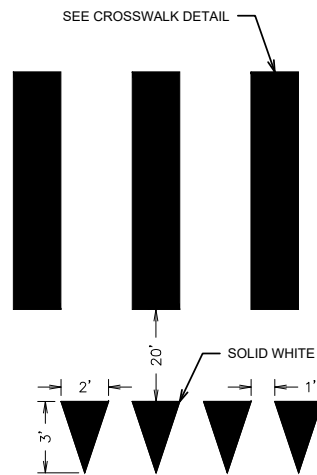


5 BIKE LANE STRIPING  
C5.2 NOT TO SCALE

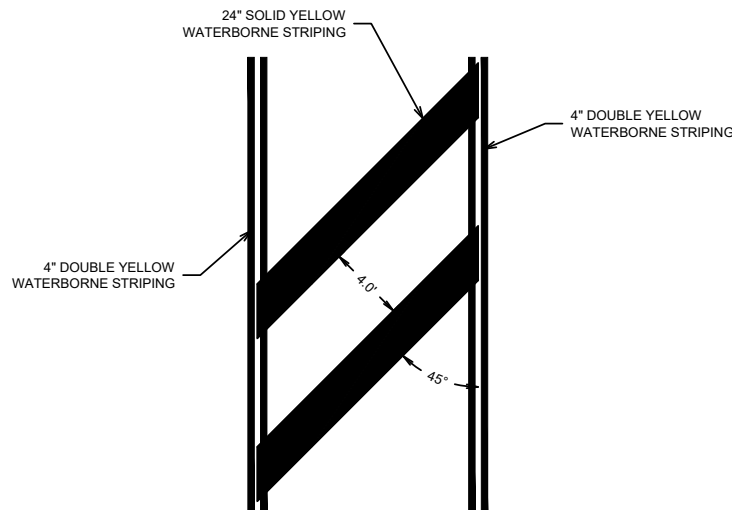


6 CROSSWALK DETAIL  
C5.2 NOT TO SCALE

# PLACE CROSSWALK MARKINGS WITH 3' GAP IN LINE WITH EXPECTED VEHICULAR WHEELPATH



7 YIELD LINE DETAIL  
C5.2 NOT TO SCALE

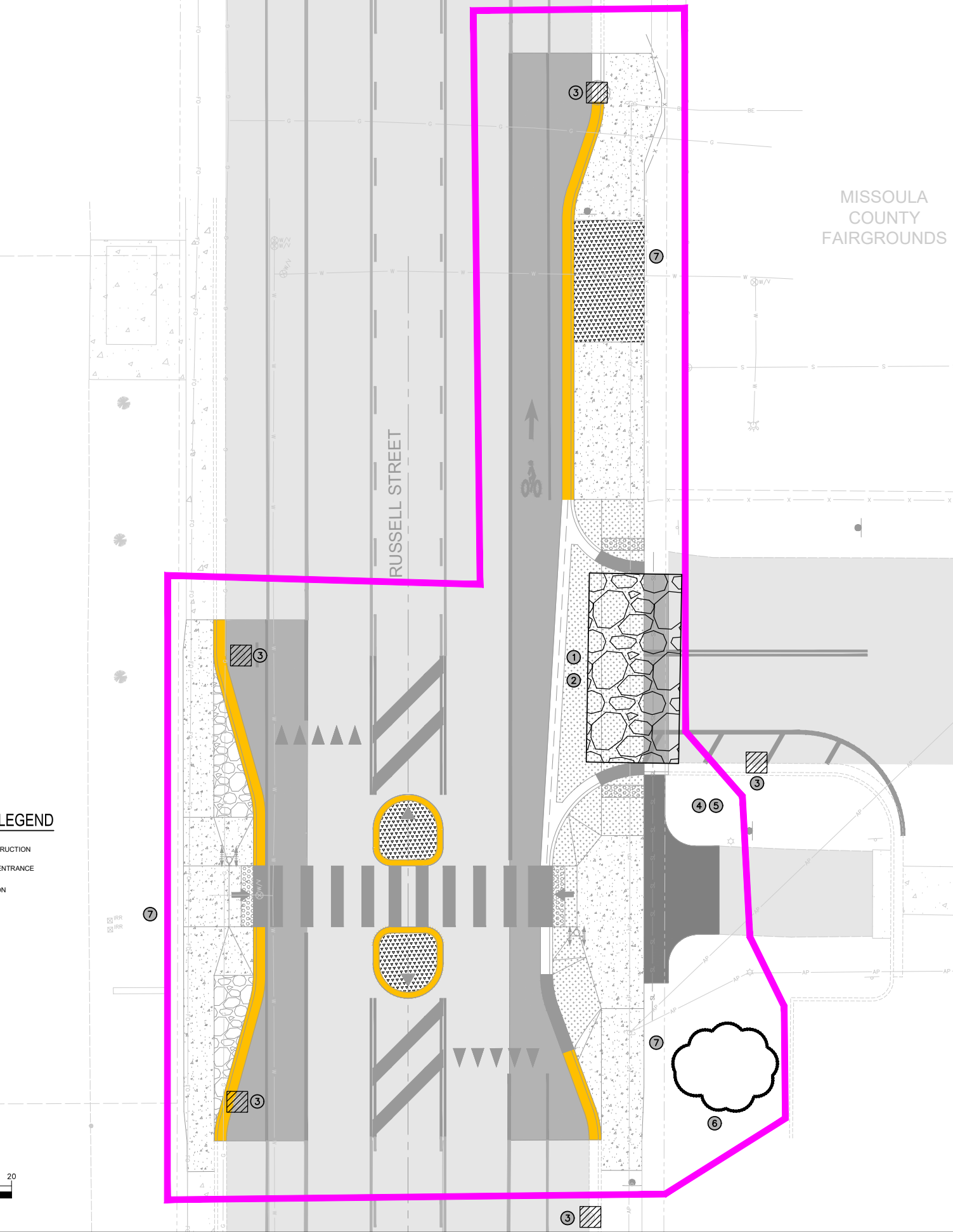
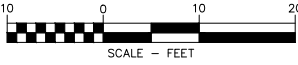


8 MEDIAN STRIPING DETAIL  
C5.2 NOT TO SCALE



EROSION CONTROL LEGEND

- LIMITS OF CONSTRUCTION
- CONSTRUCTION ENTRANCE
- INLET PROTECTION
- SOIL STOCKPILE



GENERAL NOTES:

1. THE ANTICIPATED DISTURBED AREA FOR THIS PROJECT IS NOT GREATER THAN 1 ACRE AND THEREFORE IS NOT SUBJECT TO THE 2018 GENERAL PERMIT UNDER THE MONTANA POLLUTANT DISCHARGE ELIMINATION SYSTEM. HOWEVER, APPLICABLE CITY OF MISSOULA STORM WATER REGULATIONS AND PERMITTING STILL APPLY. ALL "SWPPP" REFERENCES IN THESE GENERAL NOTES PERTAIN TO THE CITY STORM WATER PERMIT ONLY.
2. THE CONTRACTOR SHALL FILL OUT AND SUBMIT ALL THE REQUIRED PAPERWORK AND PAY FEES FOR THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) TO BE IN COMPLIANCE WITH CITY OF MISSOULA. THE CONTRACTOR SHALL REVIEW AND HAVE AN UNDERSTANDING OF THE PLANS INTENT FOR PROVIDING EROSION AND SEDIMENT CONTROL.
3. LAND DISTURBING ACTIVITY SHALL NOT COMMENCE UNTIL APPROVAL/PERMIT HAS BEEN GIVEN BY CITY OF MISSOULA.
4. THIS EROSION CONTROL PLAN IS TO BE USED AS A GUIDE. IT IS THE SWPPP ADMINISTRATOR'S DUTY TO MODIFY OR UPDATE THE EROSION CONTROL PLAN TO MATCH THE SWPPP NARRATIVE AND THE ACTUAL BMP'S INSTALLED ON-SITE AT ALL TIMES UNTIL THE NOTICE OF TERMINATION (NOT) FORM IS SUBMITTED TO CITY OF MISSOULA.
5. EVALUATE SUITABILITY OF GRAVEL CONSTRUCTION ENTRANCE PROTECTION. IF ARRANGEMENT SHOWN ON THIS SHEET IS NOT SUITABLE, AN ALTERNATE METHOD SHALL BE APPROVED BY ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION.
6. CONTRACTOR TO PREVENT UNTREATED RUNOFF FROM LEAVING THE SITE. ADDITIONAL BMP'S MAY BE NECESSARY.
7. CONTRACTOR TO PREVENT POLLUTING THE AIR WITH DUST AND PARTICULATE MATTER. PROVIDE WATER FOR DUST CONTROL AS NECESSARY.
8. THE CONTRACTOR IS TO BE RESPONSIBLE FOR INSTALLING, INSPECTING, MAINTAINING, PRESERVING AND EVALUATING THE PERFORMANCE OF ALL EROSION CONTROL MEASURES.
9. THE CONTRACTOR IS TO BE RESPONSIBLE FOR PERFORMING ALL MONITORING, REPORTING, AND RECORDS RETENTION REQUIREMENTS PER CITY REQUIREMENTS.
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11. CONTRACTOR IS SOLELY RESPONSIBLE FOR ANY AND ALL DAMAGES AND/OR FINES THAT MAY RESULT FROM RUNOFF FROM THIS SITE PRIOR TO FINAL STABILIZATION.
12. CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN ALL EROSION CONTROL MEASURES THROUGHOUT THE WARRANTY PERIOD, AND UNTIL FINAL STABILIZATION OF THE SITE IS REACHED. THE CONTRACTOR IS THEN RESPONSIBLE FOR REMOVING EROSION CONTROL MEASURES AND SUBMITTING THE NOT TO THE CITY OF MISSOULA.
13. ALL DISTURBED AREAS SHALL BE SEEDED OR PAVED WITHIN 14 DAYS OF FINAL GRADING. SHOULD CONSTRUCTION OF AN AREA STOP FOR LONGER THAN 14 DAYS, THE AREA SHOULD BE TEMPORARILY SEEDED OR STABILIZED IN ANOTHER ACCEPTABLE MANNER.
14. CONTRACTOR SHALL DESIGNATE THE LOCATION OF ALL DUMPSTERS, FUELING/MAINTENANCE AREAS, AND PORTABLE TOILETS. PORTABLE TOILETS TO BE SECURED TO GROUND TO PREVENT TIPPING/SPILLING.
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KEY NOTES (THIS SHEET):

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7. INSTALL SILT FENCE AROUND MAJOR DISTURBED AREAS IF DETERMINED NECESSARY FOR EROSION CONTROL.



PRELIMINARY

PLOTTED: 1/20/23  
SAVED: 1/20/23

STAGE 3 PLANS

EROSION CONTROL PLAN  
RUSSELL COMMUTER TRAIL CROSSING  
MISSOULA, MONTANA

REVISIONS:		
NO.	DESCRIPTION	DATE

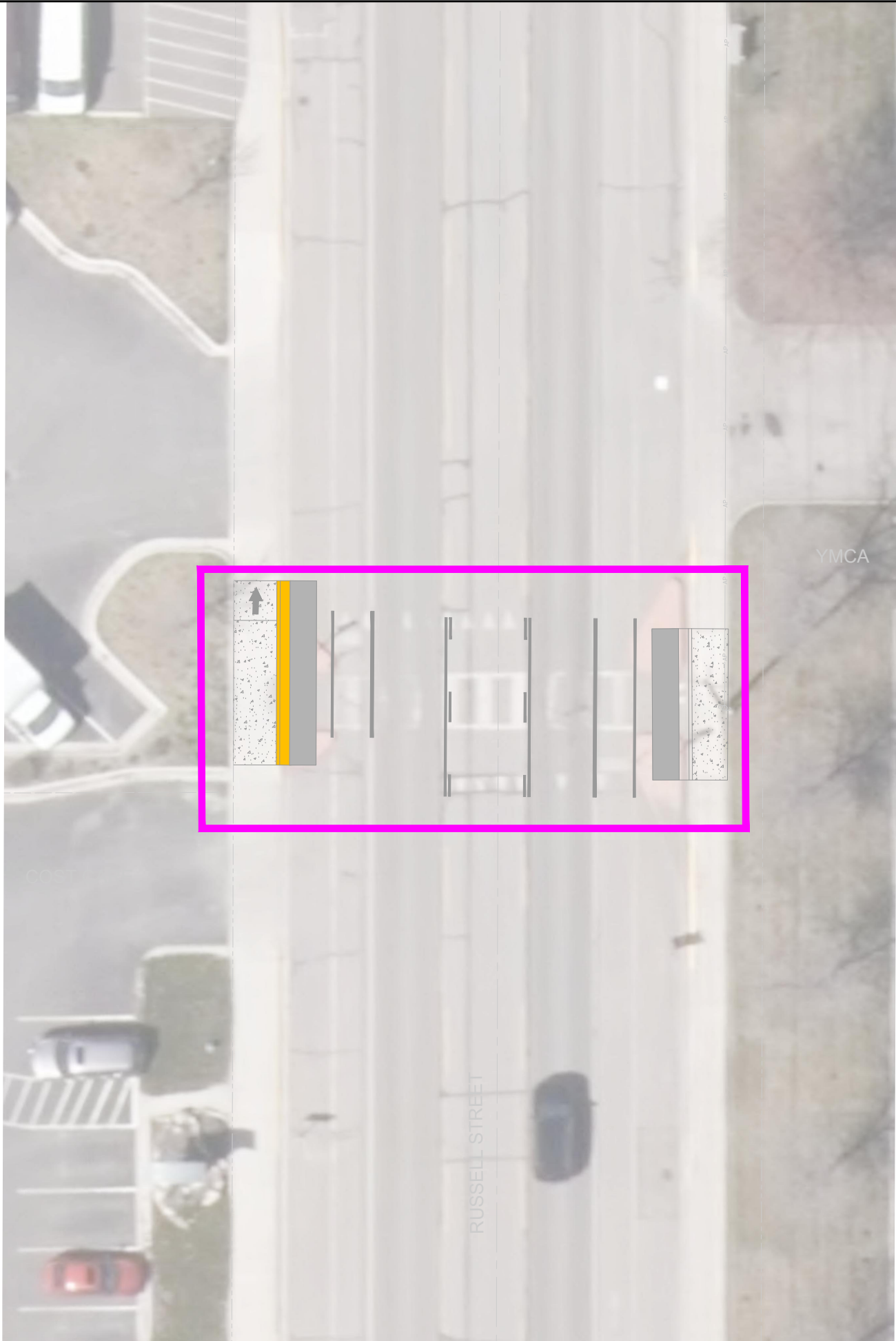
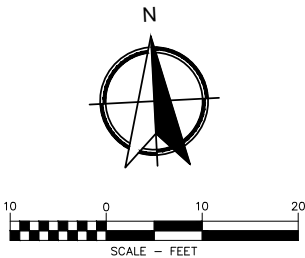
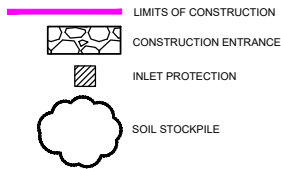
PROJECT: 21-06-02  
LAYOUT: C6.0  
SURVEYED: WGM GROUP  
DESIGN: RMS  
DRAFT: DEM  
APPROVE: SMM  
DATE:

JANUARY 23, 2023

SHEET C6.0

FILE: W:\Projects\210602\CAD Data\Design\210602EC.dwg

EROSION CONTROL LEGEND



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PRELIMINARY

PLOTTED: 1/20/23  
SAVED: 1/20/23

STAGE 3 PLANS

EROSION CONTROL PLAN  
RUSSELL COMMUTER TRAIL CROSSING  
MISSOULA, MONTANA

REVISIONS:		
NO.	DESCRIPTION	DATE

PROJECT: 21-06-02  
LAYOUT: C6.1  
SURVEYED: WGM GROUP  
DESIGN: RMS  
DRAFT: DEB  
APPROVE: SMM  
DATE:

JANUARY 23, 2023

SHEET

C6.1

FILE: W:\Projects\210602\CAD Data\Design\210602EC.dwg



**PRELIMINARY**

PLOTTED: 1/20/23  
SAVED: 1/20/23

**STAGE 3 PLANS**

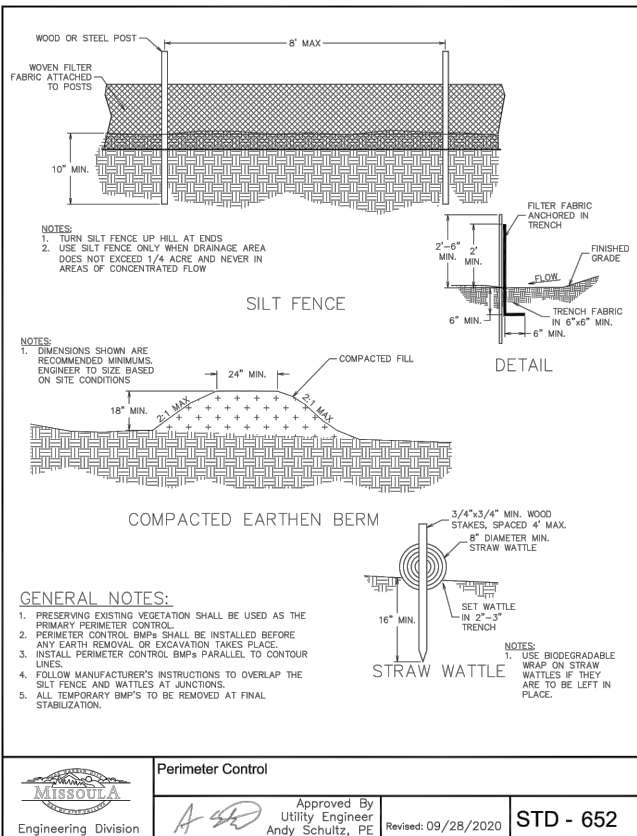
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**RUSSELL COMMUTER TRAIL CROSSING**  
**MISSOULA, MONTANA**

REVISIONS:		
NO.	DESCRIPTION	DATE

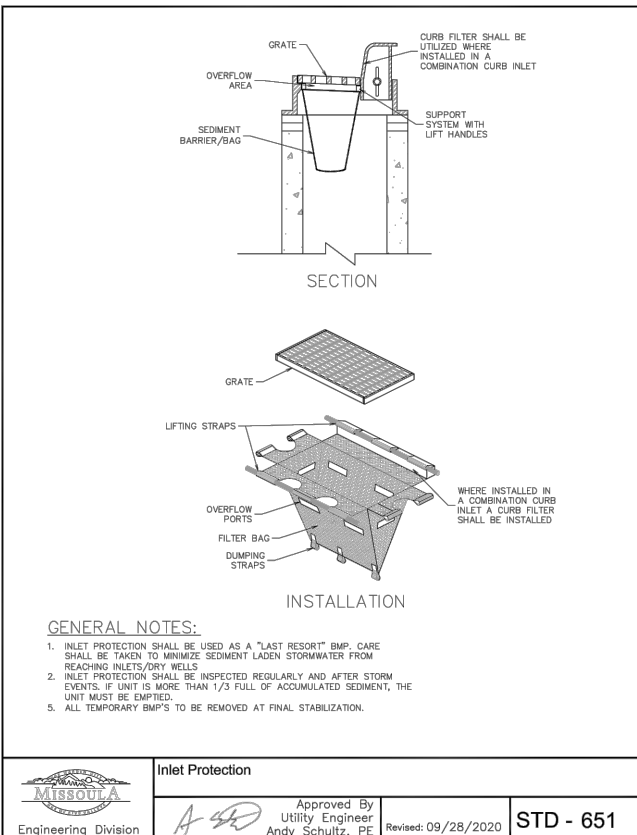
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LAYOUT: C6.2  
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DESIGN: RMS  
DRAFT: DEB  
APPROVE: SM  
DATE:

JANUARY 23, 2023

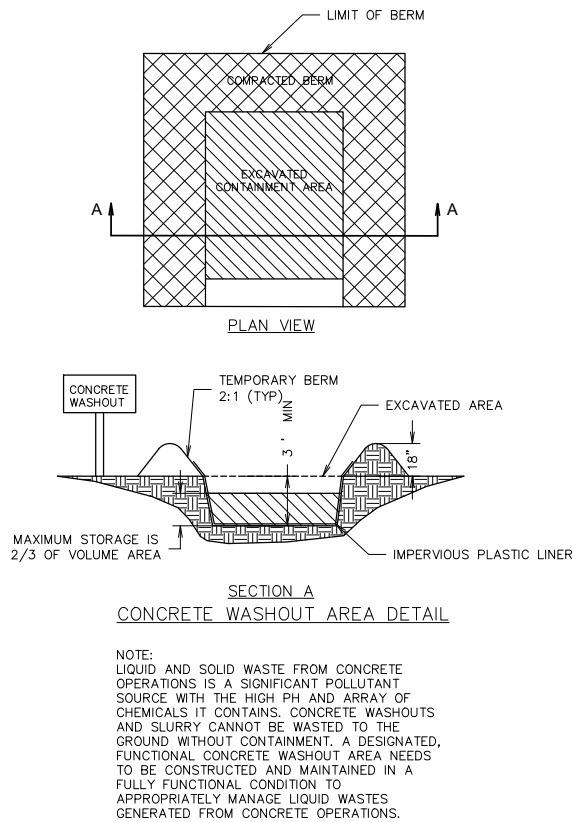
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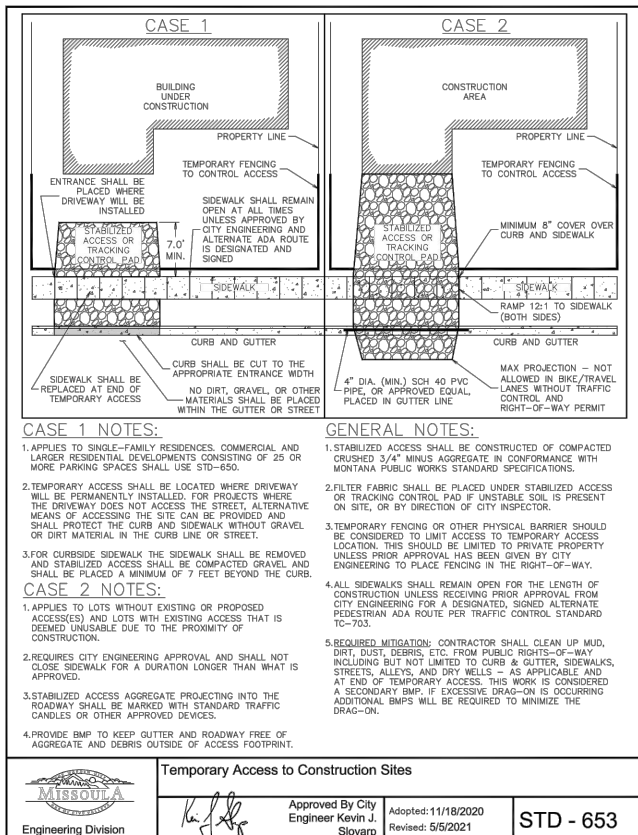
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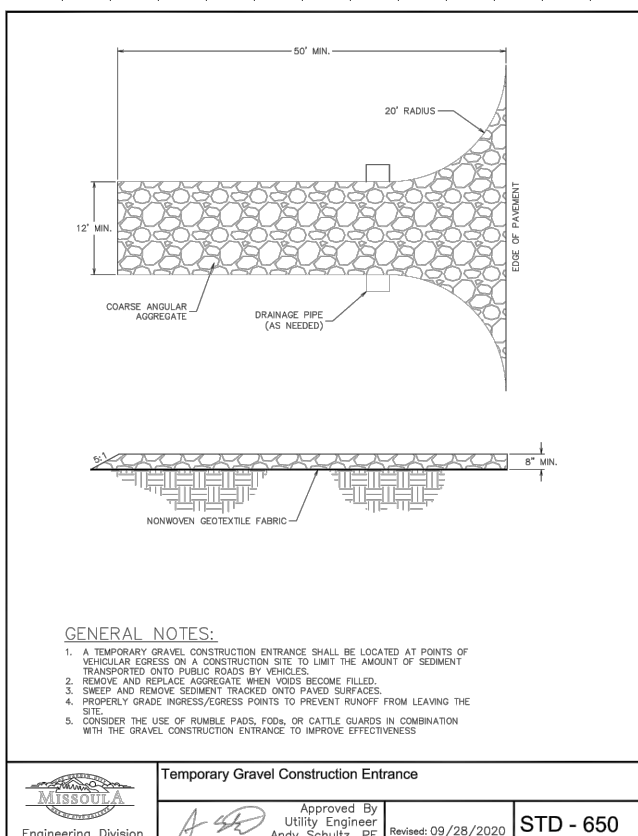
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**2 CONCRETE WASHOUT AREA**  
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**5 TEMPORARY ACCESS**  
NO SCALE



**3 GRAVEL CONSTRUCTION ENTRANCE**  
NO SCALE