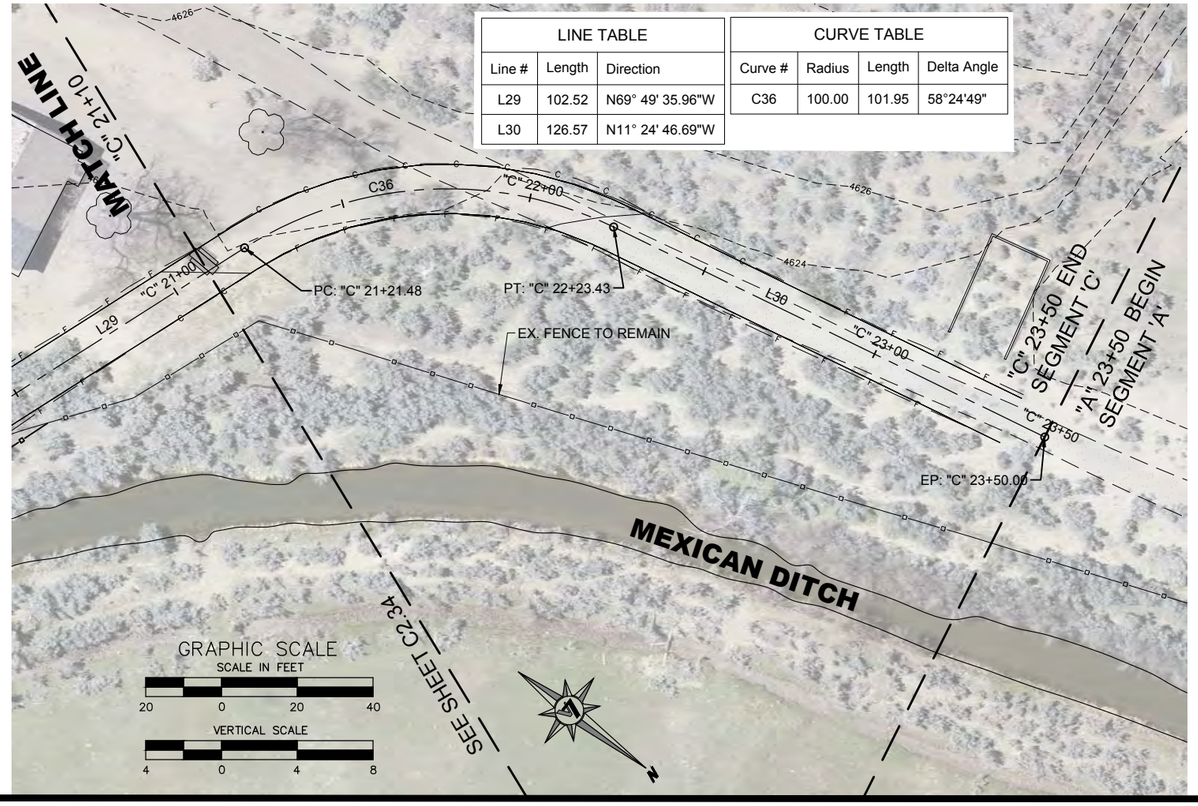
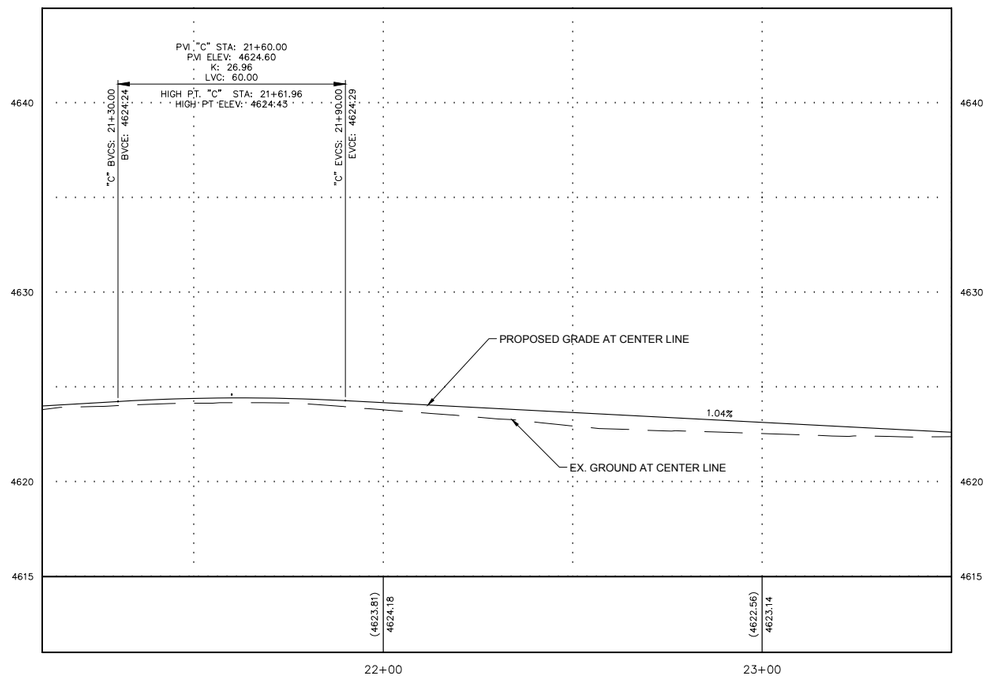


C – STA: 21+10 TO STA: 23+50



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CARSON RIVER TRAIL SYSTEM PHASE 2
MEXICAN DITCH TRAIL - SEGMENT C
PLAN AND PROFILE

CARSON CITY NEVADA

REV | DATE | DESCRIPTION | BY

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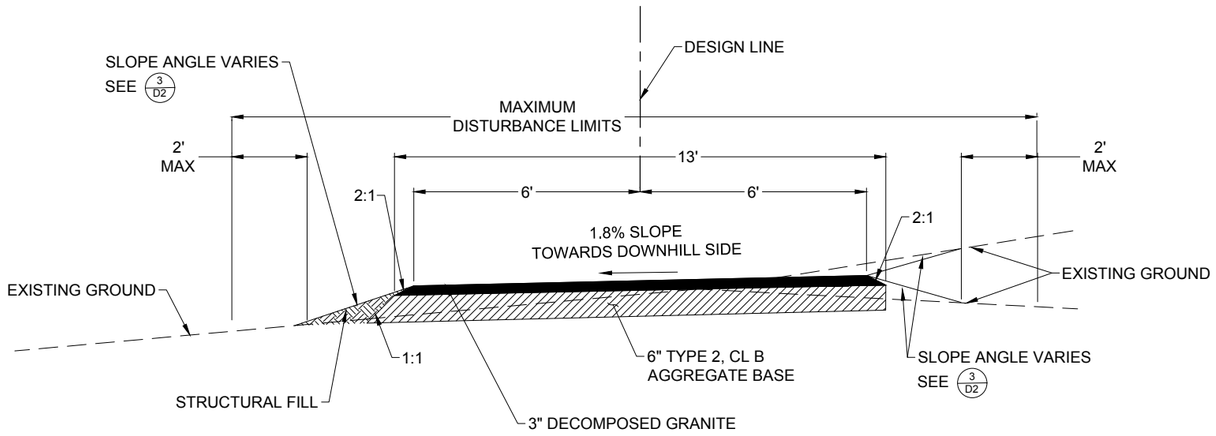

1 D1 **TYPICAL TRAIL SECTION A**

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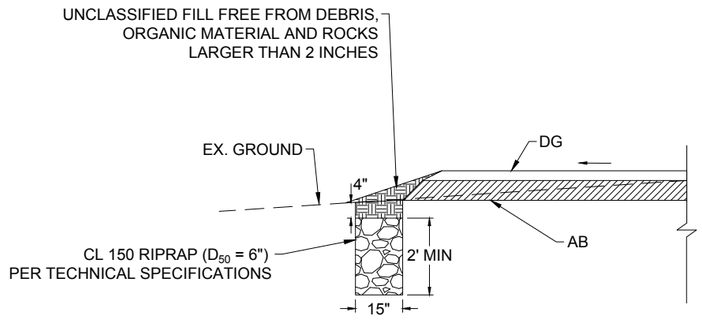
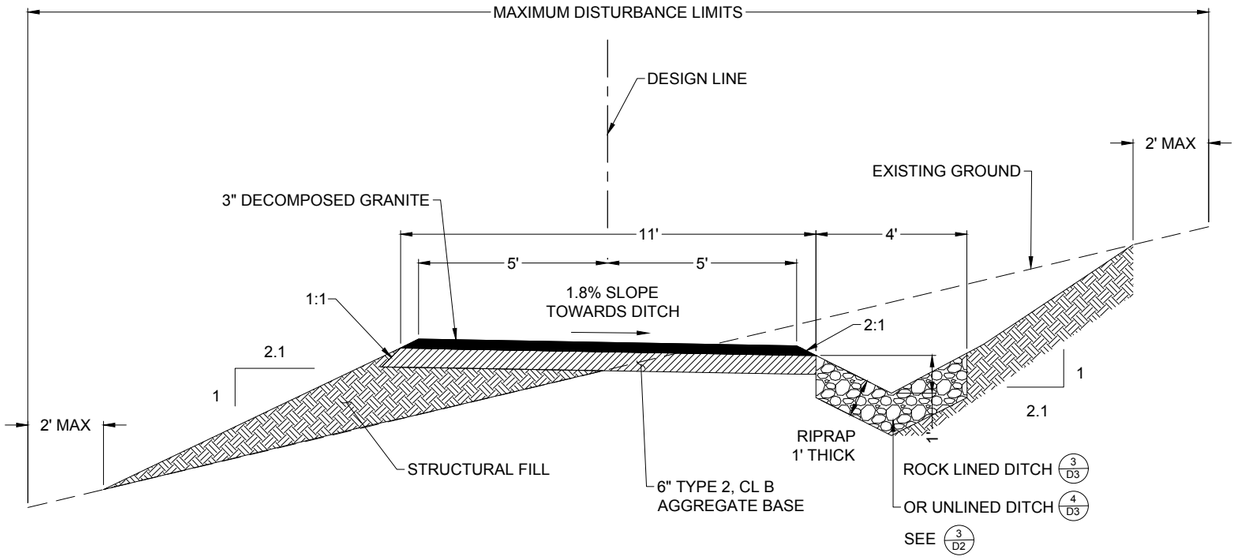


3 D1 **TRAIL EDGE PROTECTION (WHERE NOTED ON PLANS)**

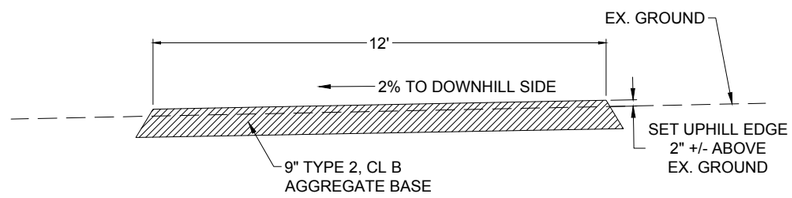
N.T.S.



2 D1 **TYPICAL TRAIL SECTION B**

N.T.S.

NOTE:
WHEN UPHILL SIDE OF TRAIL IS IN FILL, PLACE ROCK LINED DITCH AT TOE OF SLOPE.



4 D1 **GRAVEL ROAD TYPICAL SECTION**

N.T.S.

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CARSON RIVER TRAIL SYSTEM PHASE 2 TYPICAL SECTIONS

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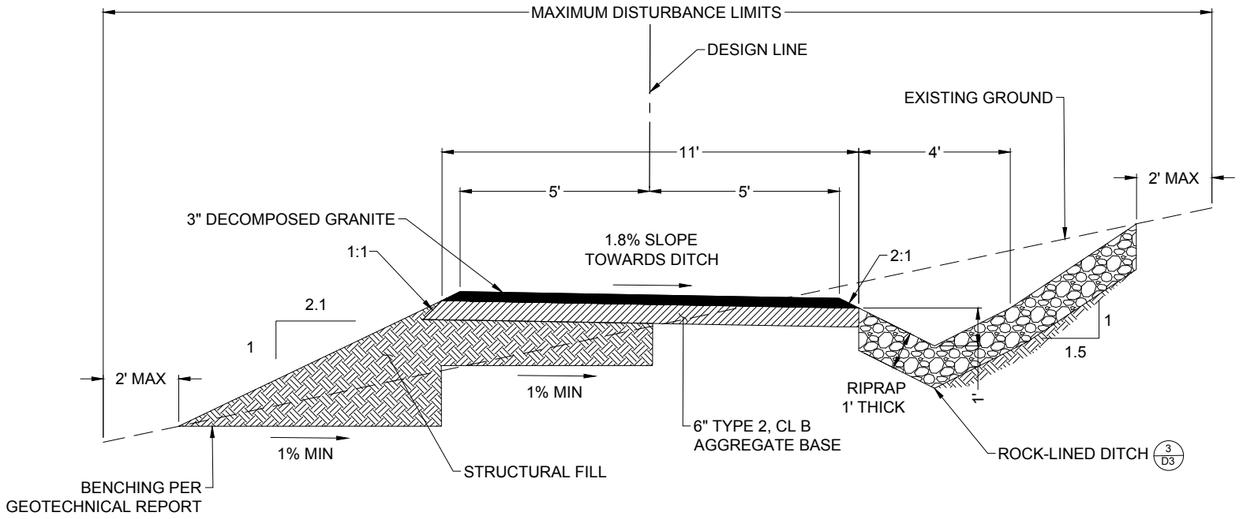
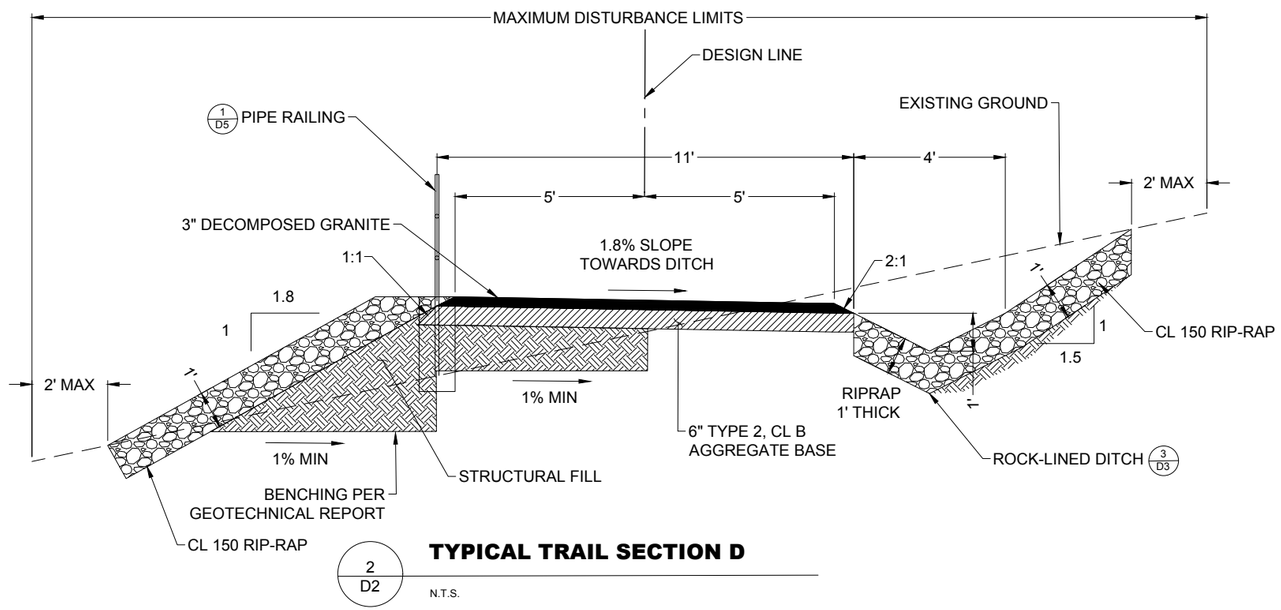


TYPICAL TRAIL SECTION C

1/D2

N.T.S.

NOTE:
WHEN UPHILL SIDE OF TRAIL IS IN FILL, PLACE ROCK LINED DITCH AT TOE OF SLOPE.



TYPICAL TRAIL SECTION D

2/D2

N.T.S.

SEGMENT A (PRISON HILL)						
BEGIN STA.	END STA.	TYPICAL SECTION	CROSS SLOPE	SIDE SLOPES		COMMENTS
				LEFT	RIGHT	
23+50	27+70	A	RT	3:1	3:1	
27+70	28+13					AC PAVING
28+13	37+00	B	LT	2.1:1	2.1:1	RLD (LT)
37+00	39+30	B	LT	2.1:1	2.1:1	UD (LT)
39+30	51+70	B	LT	2.1:1	2.1:1	RLD (LT)
51+70	56+00	B	LT	2.1:1	2.1:1	UD (LT)
56+00	57+90	B	LT	2.1:1	2.1:1	RLD (LT)
57+90	59+55	B	LT	2.1:1	2.1:1	UD (LT)
59+55	67+30	B	LT	2.1:1	2.1:1	RLD (LT)
67+30	71+80	B	LT	2.1:1	2.1:1	UD (LT)
71+80	76+60	B	LT	2.1:1	2.1:1	RLD (LT)
76+60	77+50	D	LT	1.5:1	1.8:1	RSP (LT & RT), PIPE RAILING (RT), RLD (LT)
77+50	77+80	C	LT	1.5:1	2.1:1	RSP (LT), RLD (LT)
77+80	84+00	B	LT	2.1:1	2.1:1	RLD (LT)
84+00	85+60	D	LT	1.5:1	1.8:1	RSP (LT & RT), PIPE RAILING (RT), RLD (LT)
85+60	86+60	C	LT	1.5:1	2.1:1	RSP (LT), RLD (LT)
86+60	97+50	B	LT	2.1:1	2.1:1	UD (LT)
97+50	100+45	B	RT	2.1:1	2.1:1	RLD (RT); TRANSITION CROSS SLOPE OVER 20 FT.
100+45	104+95	B	LT	2.1:1	2.1:1	RLD (LT); TRANSITION CROSS SLOPE OVER 20 FT.
104+95	107+16	A	RT	3:1	3:1	
SEGMENT B (WEST RIVERBANK)						
BEGIN STA.	END STA.	TYPICAL SECTION	CROSS SLOPE	SIDE SLOPES		COMMENTS
				LEFT	RIGHT	
2+50	8+00	A	RT	3:1	3:1	
8+00	9+00	A	RT	3:1	3:1	TRAIL EDGE PROTECTION (RT)
9+00	12+50	A	RT	3:1	3:1	
12+50	13+20	A	RT	3:1	3:1	TRAIL EDGE PROTECTION (RT)
13+20	19+90	A	RT	3:1	3:1	
19+90	20+40	A	RT	3:1	3:1	TRAIL EDGE PROTECTION (RT)
20+40	30+30	A	RT	3:1	3:1	
30+30	31+00	A	RT	3:1	3:1	TRAIL EDGE PROTECTION (RT)
31+00	44+50	A	RT	3:1	3:1	
44+50	47+50	A	RT	3:1	3:1	TRAIL EDGE PROTECTION (RT)
47+50	61+45	A	RT	3:1	3:1	
61+45	62+05	A	RT	2.1:1	2.1:1	3-FT SHOULDER & PIPE RAILING (LT & RT)
62+05	62+63	A	RT	3:1	3:1	
SEGMENT C (MEXICAN DITCH)						
BEGIN STA.	END STA.	TYPICAL SECTION	CROSS SLOPE	SIDE SLOPES		COMMENTS
				LEFT	RIGHT	
1+01	23+50	A	RT	3:1	3:1	

RSP = ROCK SLOPE PROTECTION (RIP-RAP)
RLD = ROCK-LINED DITCH
UD = UNLINED DITCH

TYPICAL TRAIL SECTIONS TABLE

3/D2

GENERAL NOTES:

1. STATIONS ARE A GENERAL INDICATION OF THE EXTENT OF EACH TYPICAL SECTION. THE EXTENT OF EACH TYPICAL TRAIL SECTION AND TRAIL ELEVATIONS MAY BE VARIED IN THE FIELD BY THE ENGINEER BEST FIT EXISTING GROUND CONDITIONS AND TO ACCOMMODATE LOCAL VARIATIONS IN EXISTING TREES, ROCKS, AND TOPOGRAPHY.
2. ALL SURFACES TO RECEIVE FILL AND/OR AGGREGATE BASE SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 6-INCHES, ROCKS GREATER THAN 3-INCHES REMOVED, MOISTURE CONDITIONED TO WITHIN 2% OF OPTIMUM, AND RECOMPACTED TO AT LEAST 95% OF THE ASTM D1557 STANDARD. REMOVALS AND SCARIFICATION SHALL EXTEND HORIZONTALLY BEYOND THE EDGE OF PAVEMENT SECTION A MINIMUM OF 18 INCHES.
3. IF SLOPES THAT ARE TO RECEIVE FILL ARE STEEPER THAN 5:1 THE EXISTING SLOPE SHALL BE HORIZONTALLY BENCHED. THE BENCH SHALL BE AT LEAST ONE EQUIPMENT WIDTH WIDE AND SLOPE AT LEAST ONE PERCENT (1%) INTO THE EXISTING SLOPE.
4. ALL SLOPES AND DISTURBED AREAS THAT DO NOT HAVE ROCK SLOPE PROTECTION SHALL BE HYDROSEEDED.

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CARSON RIVER TRAIL SYSTEM
PHASE 2
TYPICAL SECTIONS
CARSON CITY NEVADA

REV	DATE	DESCRIPTION	BY

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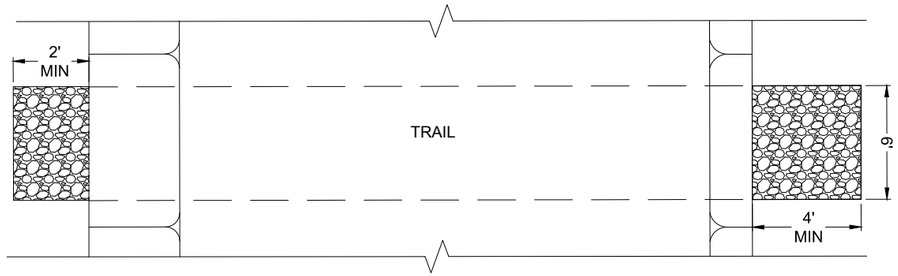
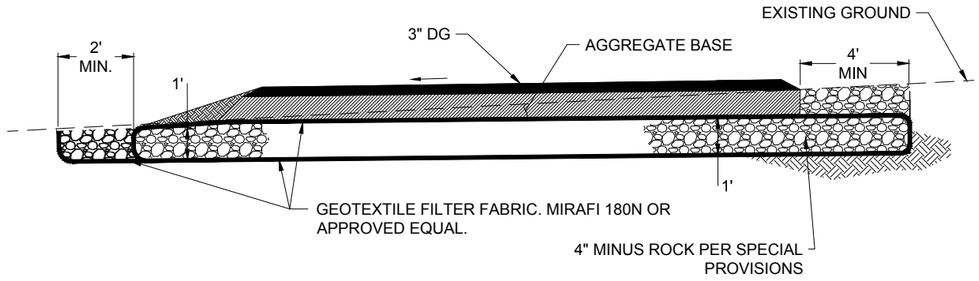
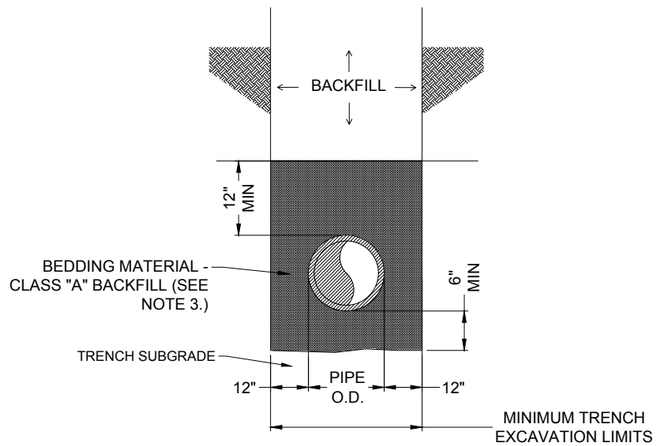




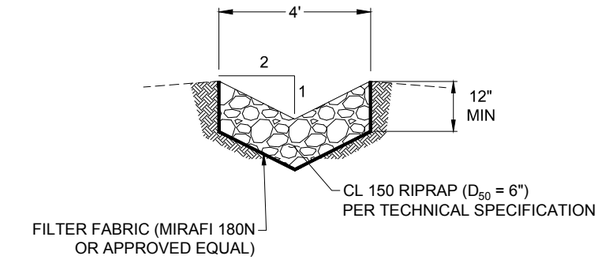
DRAIN ROCK CROSS DRAIN — N.T.S. — 1 / D3



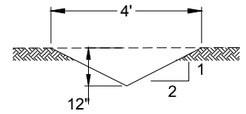
NOTES:

1. WATER DENSIFIED BACKFILL AND TUNNELING SHALL BE BY SPECIAL PROVISION ONLY.
2. BACKFILL SHALL CONFORM TO THE REQUIREMENTS OF CLASS E BACKFILL AS SPECIFIED IN SUBSECTION 200.03.06 OF THE SSPWC. MATERIAL SHALL BE PLACED IN LIFT THICKNESS SPECIFIED IN SUBSECTION 305.10 OF THE SSPWC AND DENSIFIED TO 90% RELATIVE COMPACTION.
3. BEDDING SHALL CONFORM TO THE REQUIREMENTS OF CLASS A BACKFILL AS SPECIFIED IN SUBSECTION 200.03.02 OF THE SSPWC. MATERIAL SHALL BE DENSIFIED TO 90% RELATIVE COMPACTION.

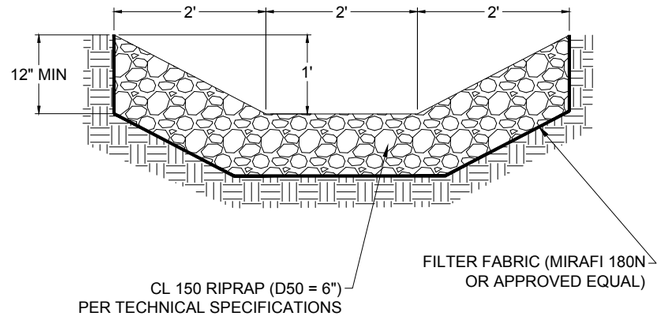
CULVERT TRENCH SECTION — N.T.S. — 2 / D3



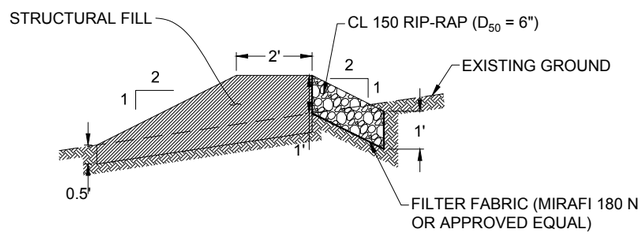
ROCK LINED DITCH — N.T.S. — 3 / D3



UNLINED DITCH — N.T.S. — 4 / D3



TRAPEZOIDAL ROCK-LINED DITCH — N.T.S. — 5 / D3



BERM — N.T.S. — 6 / D3

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CARSON CITY NEVADA

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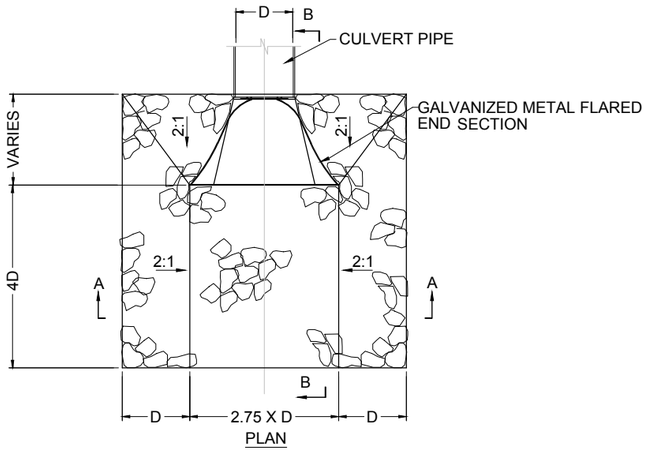
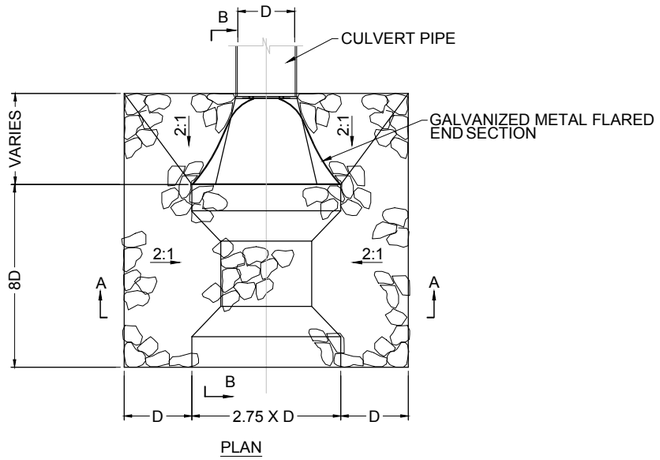


PLAN



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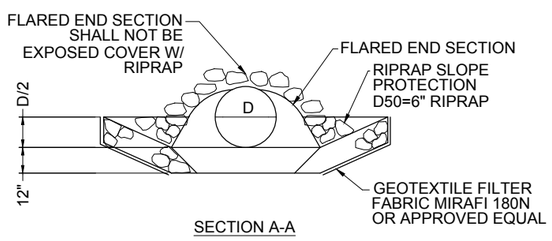
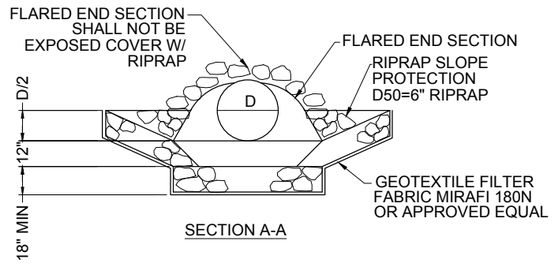


SECTION A-A



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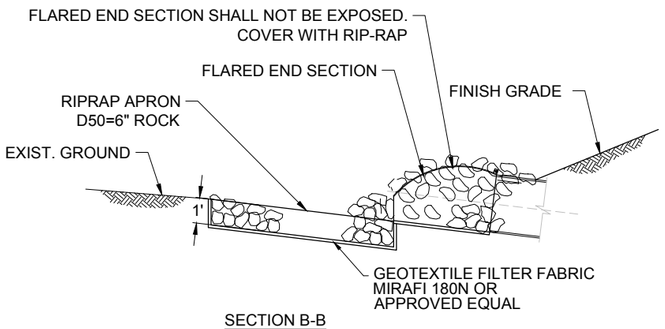
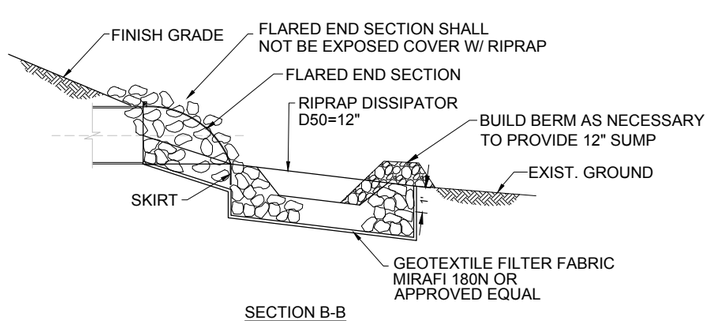


SECTION B-B

NOTE:

FLARED END SECTION INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

INLET



SECTION B-B

NOTE:

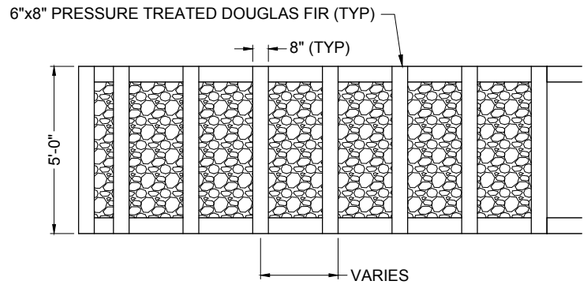
FLARED END SECTION INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

OUTLET

TYPICAL FLARED END SECTION W/ RIP-RAP APRON

N.T.S.

1 / D4



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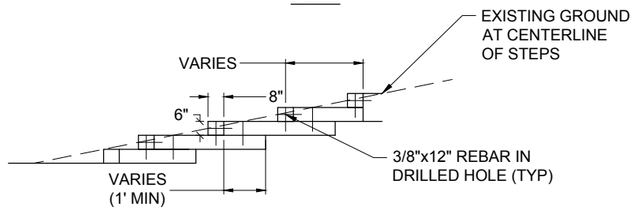

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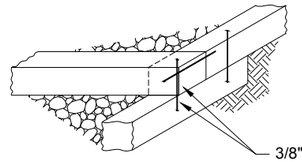
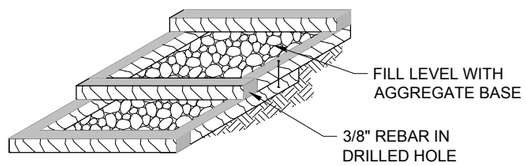


3/8" REBAR



STEP VIEW

WOOD STEPS

N.T.S.

2 / D4

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DETAILS

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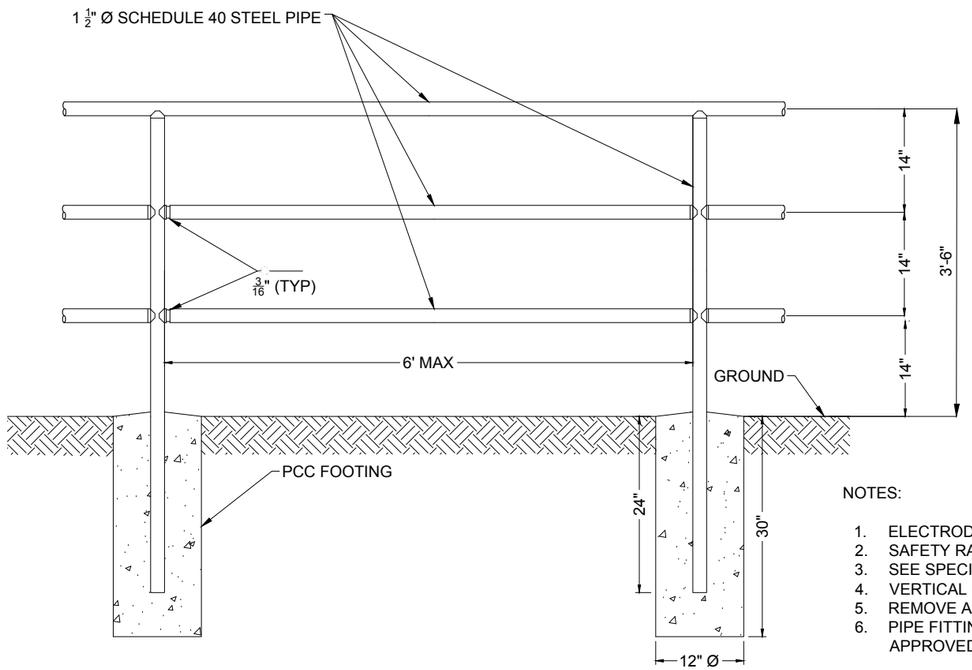


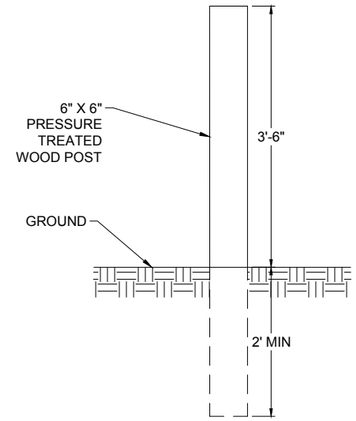
NOTES:

1. ELECTRODE STRENGTH = 60 ksi
2. SAFETY RAILING MUST COMPLY WITH IBC 2009, SECTION 1013.
3. SEE SPECIAL PROVISIONS FOR COLOR TREATMENT.
4. VERTICAL POSTS TO BE EVENLY SPACED.
5. REMOVE ALL SHARP OBJECTS.
6. PIPE FITTINGS MAY BE USED IN LIEU OF WELDED JOINTS IF APPROVED BY THE ENGINEER.

PIPE RAILING

N.T.S.

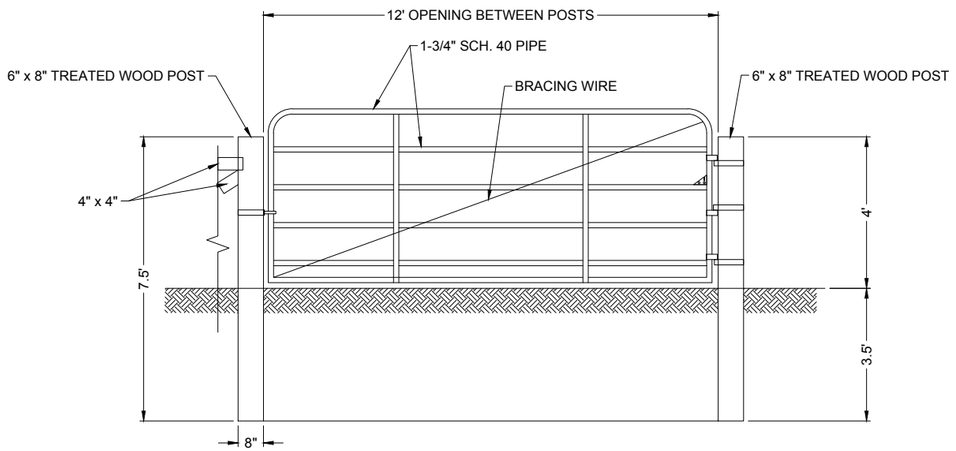
1 / D5



PRESSURE TREATED WOOD POST

N.T.S.

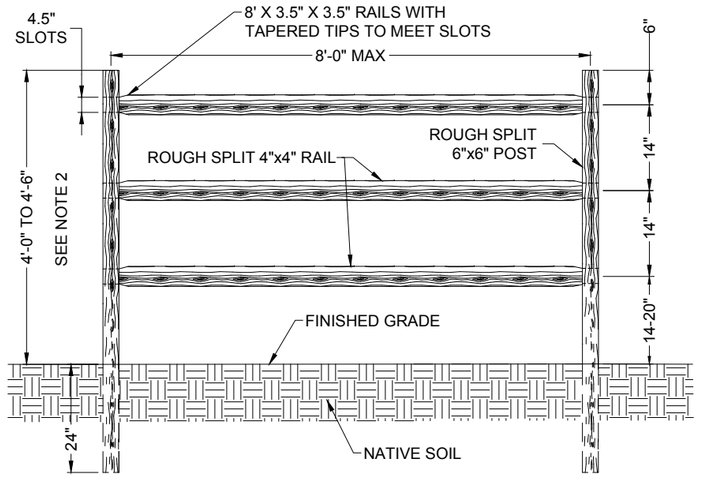
3 / D5



STEEL GATE

N.T.S.

2 / D5



NOTES:

1. ALL WOOD FOR SPLIT RAIL FENCE TO BE UNTREATED WESTERN RED CEDAR OR APPROVED EQUAL.
2. WHERE 3-FT HIGH FENCE IS CALLED FOR ON THE PLANS, OMIT BOTTOM RAIL AND MAKE POST HEIGHT 3-FT ABOVE EX. GROUND.

SPLIT RAIL FENCE

N.T.S.

4 / D5

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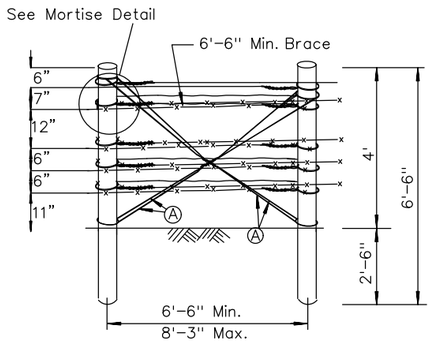
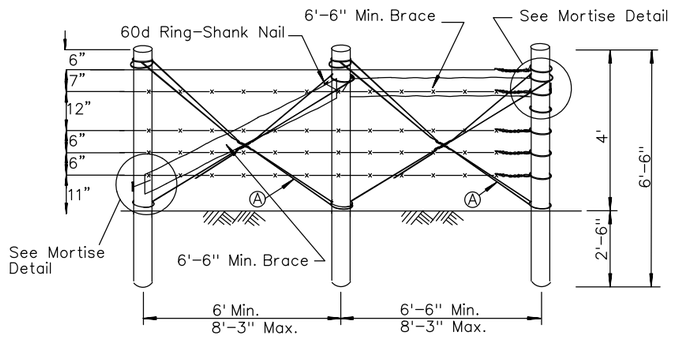


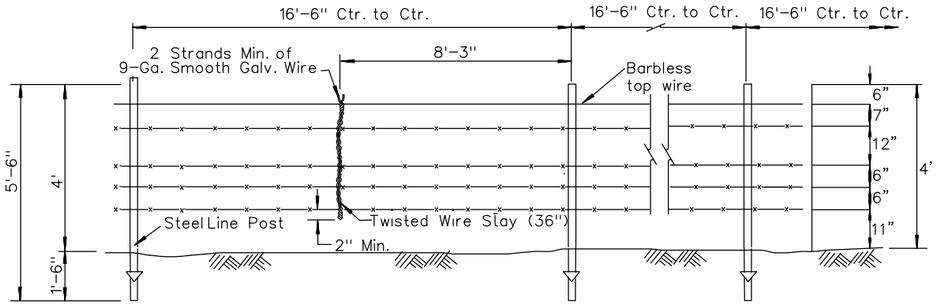
STRESS PANEL



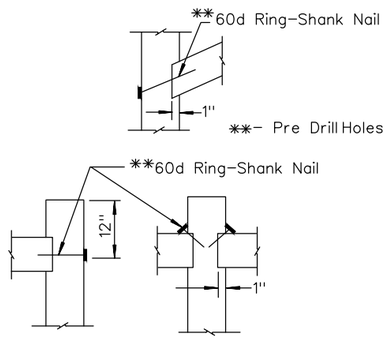
END PANEL

NOTES:

1. Stress panels shall be placed every 1320 feet on tangents.
2. Stress panels shall be placed every 660 feet on curves.
3. End panels shall be used wherever a break in the fence occurs (i.e. gates, cattleguards), and at beginning and ending of all curves.
4. See Table A for wood post spacing on curves.
5. Wires are to be tied off at stretch points. Wrap and splice to self with at least 4 turns at opposite end of panels.
6. Wood posts shall be 6 inch nominal diameter.
7. Where noted on plans, all wires shall be smooth.

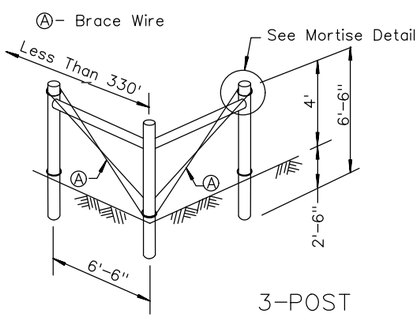


LINE PANELS

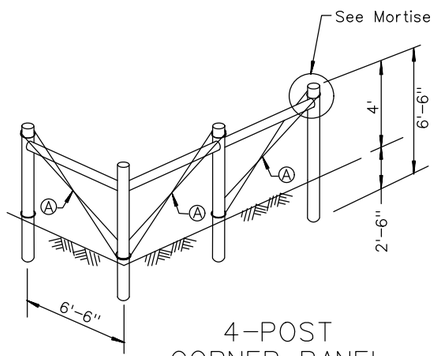


MORTISE DETAIL

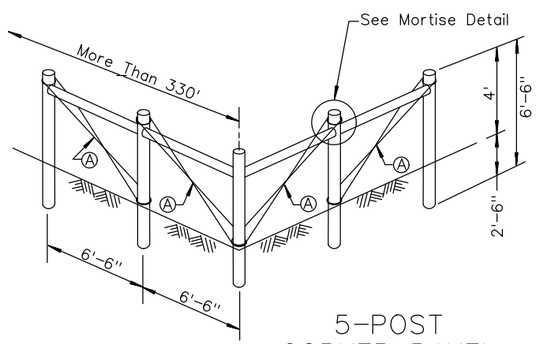
TABLE A: WOOD POST SPACING ON CURVED FENCE LINES	
RADIUS OF CURVE AT FENCE LINE (FT.)	RATIO (STEEL POST : WOOD POST)
<1,000	3:1
1,000 TO 2,500	4:1
2,500 TO 5,000	7:1
5,000 TO 10,000	NO WOOD POST NEEDED BETWEEN STRESS PANELS AT 660'
>10,000	TREAT CURVE AS TANGENT



3-POST
CORNER PANEL



4-POST
CORNER PANEL



5-POST
CORNER PANEL

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CARSON RIVER TRAIL SYSTEM
PHASE 2
WIRE FENCE DETAILS

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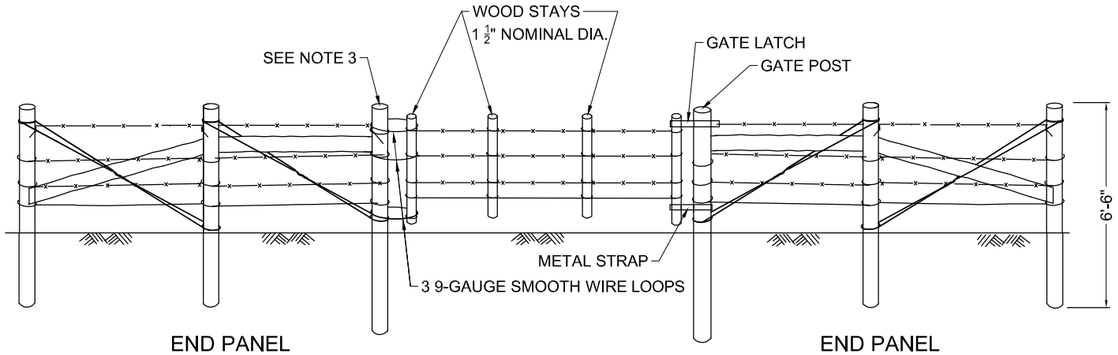
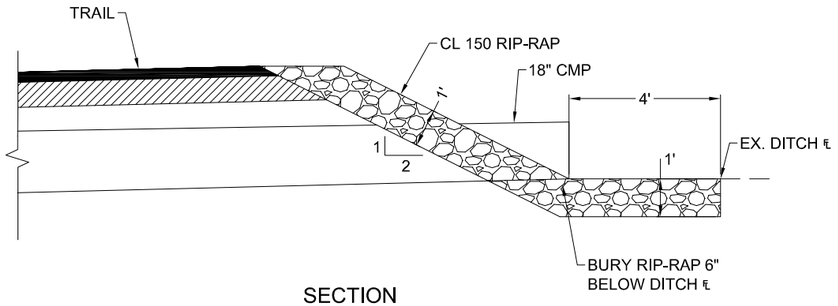
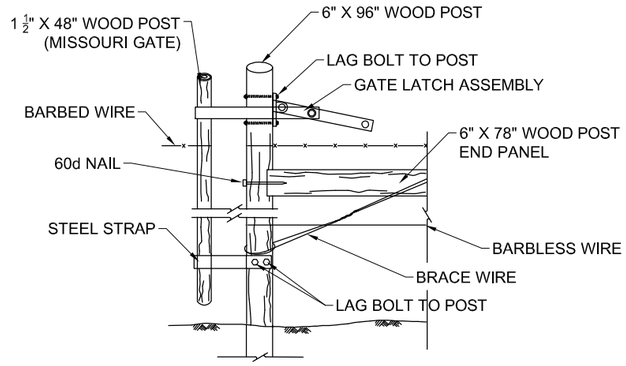
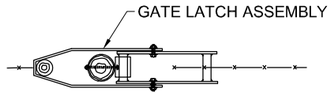




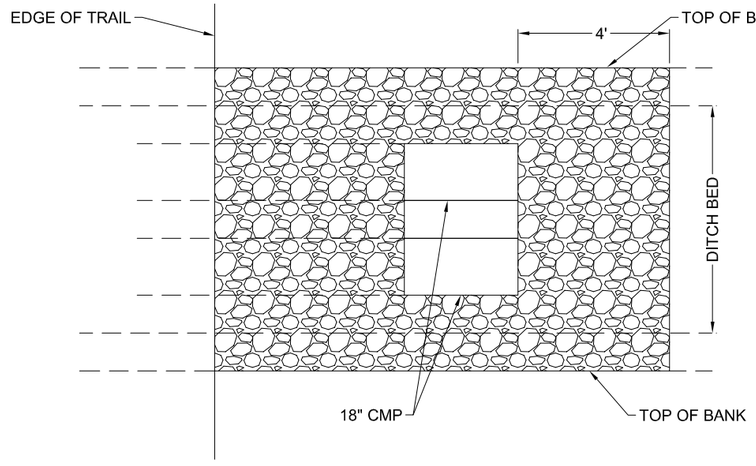
SECTION



TYPICAL GATE LATCH



PLAN



PLAN

NOTES:

1. SPACING BETWEEN WIRES ON MISSOURI GATE SHALL BE THE SAME AS THE WIRES ON ADJACENT FENCE.
2. GATE LATCH SHALL BE LAG BOLTED FIRMLY TO THE GATE POST.
3. HINGE POSTS, LATCH POSTS, AND CATTLE GUARD WING ATTACHMENT POSTS SHALL BE 8 FEET IN LENGTH AND SHALL BE BURIED 3 FEET IN GROUND.
4. FOR END PANEL DETAILS, SEE SHEET D6.

MISSOURI GATE

N.T.S.

1
D7

NOTE:

TREATMENT SAME AT INLET AND OUTLET

DOUBLE CMP END TREATMENT AT STA. B 31+05

N.T.S.

2
D7

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DETAILS

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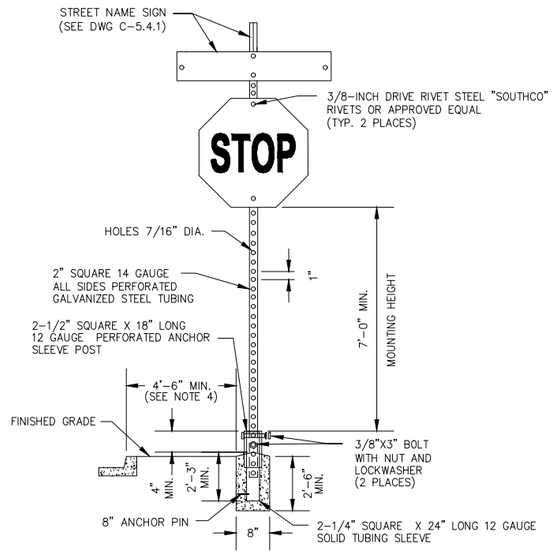
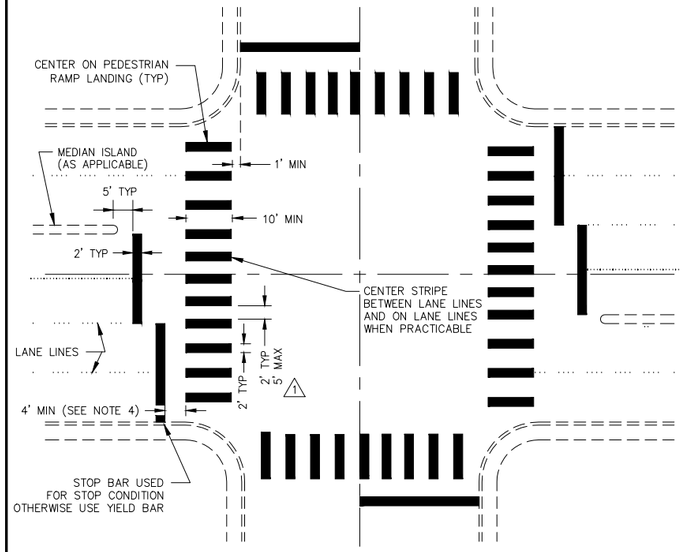


TYPICAL SECTION
NTS

NOTES:

1. SIGN MATERIALS, CONSTRUCTION AND PLACEMENT SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
2. STREET NAME SIGN SHALL BE AS SPECIFIED IN STANDARD DETAIL DRAWING NO. C-5.4.1
3. ON STREETS WHERE CURBING DOES NOT EXIST, SET SIGN 6 FEET MINIMUM FROM PAVEMENT EDGE.
4. CONCRETE BASE SHALL BE LOCATED AT BACK OF SIDEWALK, UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER.
5. ALL REGULATORY SIGNS SHALL USE ASTM TYPE 3 OR 4 INTENSITY SHEETING.

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
			TRAFFIC SIGN INSTALLATION	CARSON CITY
				DRAWING NO. C-5.4.2
APPROVED BY:		9/17		DATE SEP 2017

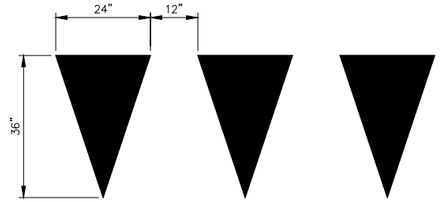


PLAN
NTS

NOTES:

1. ALL STRIPING SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS, CURRENT EDITION.
2. INLAY TAPE STRIPING AND/OR PAVEMENT LEGENDS SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS.
3. CROSSWALK MARKINGS SHALL BE INSTALLED AT ALL TRAFFIC SIGNAL LOCATIONS AND AT OTHER LOCATIONS AS DIRECTED BY THE CARSON CITY ENGINEER OR PUBLIC WORKS DIRECTOR.
1. STOP BARS LOCATED AT A CROSSWALK THAT CROSSES AN UNCONTROLLED MULTI-LANE APPROACH OR AT A MID-BLOCK CROSSING SHALL BE PLACED 40 FEET IN ADVANCE OF THE NEAREST CROSSWALK LINE. PARKING SHALL BE PROHIBITED BETWEEN THE STOP BAR AND THE CROSSWALK.

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
1	NOTE 4	9/17	CROSSWALK LEGEND	CARSON CITY
				DRAWING NO. C-5.4.3
APPROVED BY:		9/17		DATE SEP 2017



NOTE:
TRIANGLE HEIGHT IS EQUAL TO 1.5 TIMES THE BASE DIMENSION.

DIRECTION OF TRAVEL

NOTES:

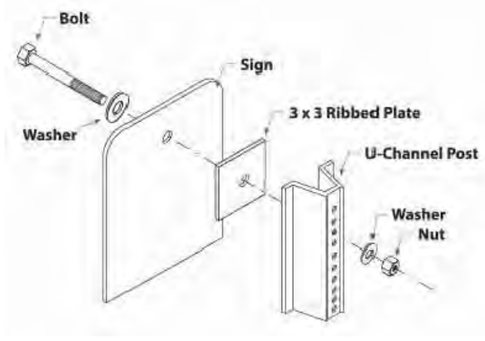
1. ALL STRIPING SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD FOR STREETS AND HIGHWAYS, CURRENT EDITION.
2. ALL PAINTED STRIPING AND PAVEMENT LEGENDS SHALL CONFORM TO CARSON CITY PUBLIC WORKS SPECIFICATIONS.
3. ALL INLAY TAPE STRIPING AND/OR PAVEMENT LEGENDS SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS.
4. YIELD LINE TO BE INSTALLED FROM EDGE OF LANE TO EDGE OF PAVEMENT OR LIP OF CURB.
1. SEE STANDARD DETAIL C-5.4.3 FOR YIELD LINE PLACEMENT.

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
1	NOTE 5	9/17	YIELD LINE LAYOUT	CARSON CITY
				DRAWING NO. C-5.4.4
APPROVED BY:		9/17		DATE SEP 2017

SIGN TABLE

SIGN	DESIGNATION	SIZE	MOUNTING HEIGHT	LOCATION
STOP	R1-1	18" x 18"	5' - 0"	TRAIL
NO MOTOR VEHICLES	R5-3	24" x 24"	5' - 0"	TRAIL
TRAIL CROSSING	W11-15 W11-15P	30" x 30" 24" x 18"	7' - 0"	ROAD

PRIVATE PROPERTY SIGN
N.T.S.



SIGN MOUNTING

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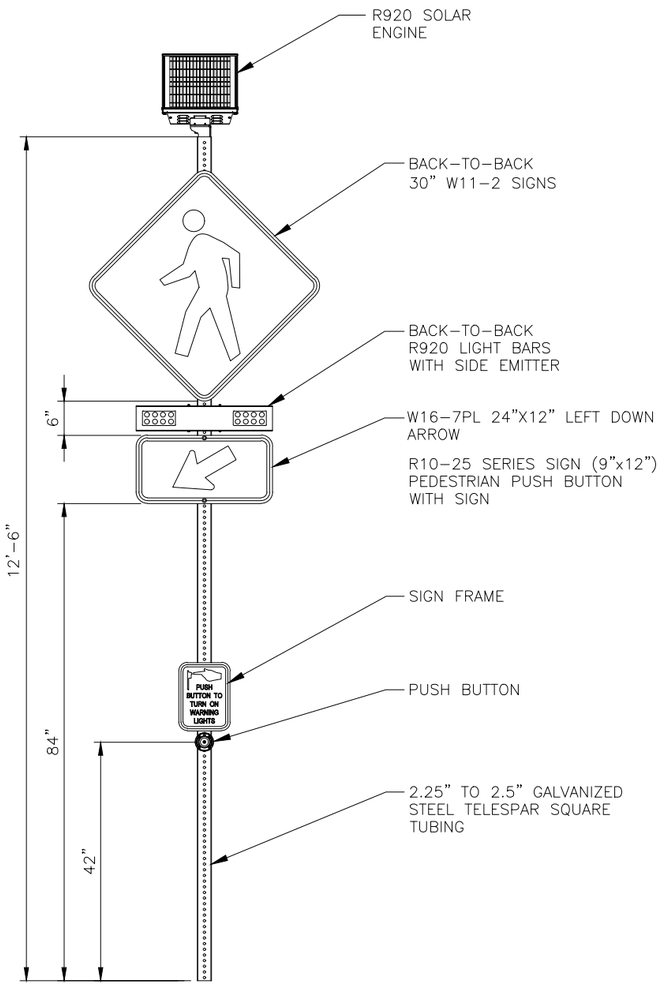
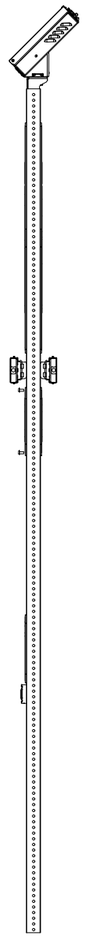
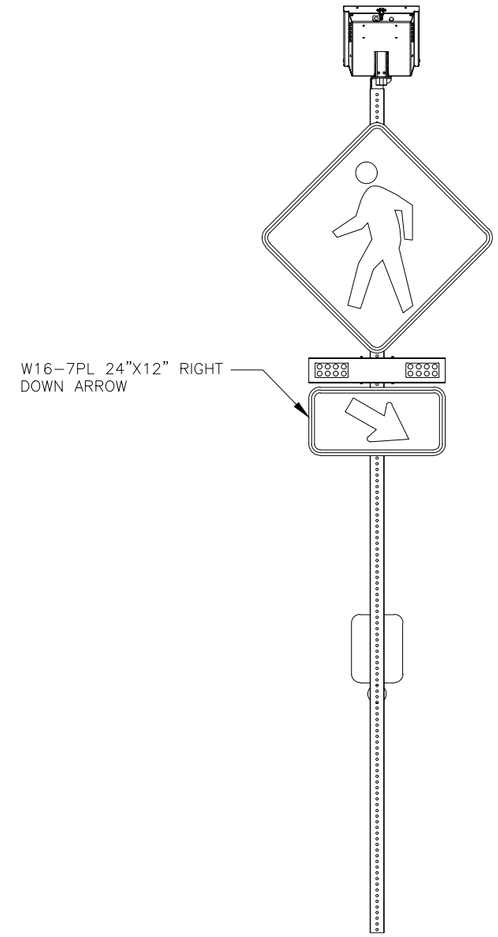
REV	ECO #	DESCRIPTION	DATE	DRAWN BY
A		FOR REFERENCE ONLY - NOT FOR MANUFACTURE	07/12/17	JGW







NOTES:

1. FOR GENERAL DIMENSIONAL REFERENCE ONLY.
2. LIGHT BAR COVER COLOR VARIES BY PRODUCT CONFIGURATION – BLACK SHOWN.
3. SOLAR ENGINE CHASSIS COLOR VARIES BY PRODUCT CONFIGURATION – NATURAL ALUMINUM FINISH SHOWN.
4. LIGHT BARS CAN BE CONFIGURED FOR 1, 2 OR NO SIDE EMITTER.

DIMENSIONS IN INCHES

THIRD ANGLE PROJECTION

PDM MAINTAINED DATA
CHANGES SHALL BE INCORPORATED ELECTRONICALLY BY THE DESIGN AUTHORITY

PROPRIETARY

ORIGINALLY DESIGNED BY		DATE
ORIGINALLY DRAWN BY		DATE 07/12/17
CHECKED BY		DATE

DOC # | DOC REVISION | DATE

250 Bay Street
Victoria, BC Canada V9A 3K5
Tel [250] 380-0052
Fax [250] 380-0062
Carmanah Technologies Corp.

TITLE
R920 SOLAR RRFB DOUBLE-SIDED LIGHT BARS

SIZE	DRAWING NO	REVISION
B		A
SCALE 1:32	CAD REFERENCE	SHEET 1 OF 1

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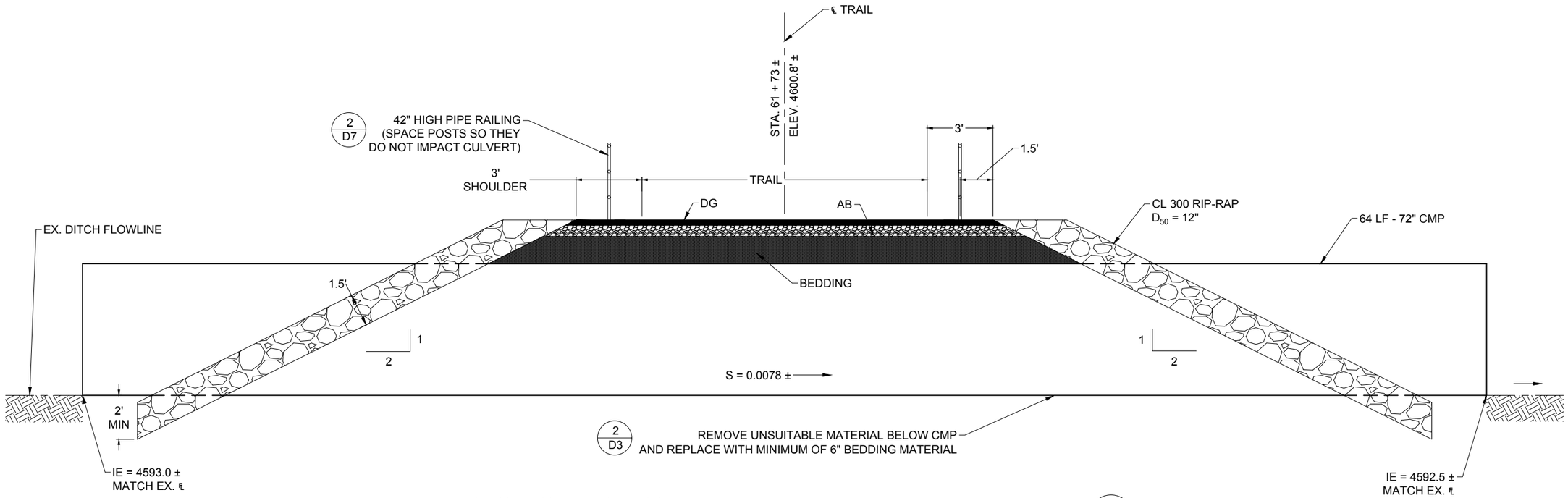
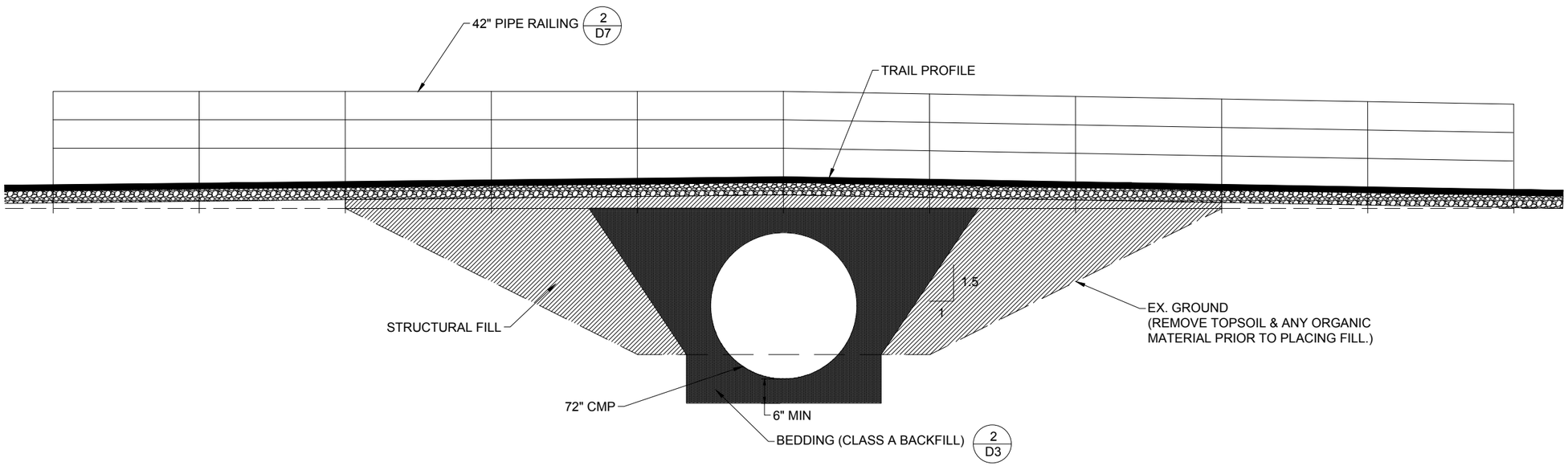


72" CMP CULVERT PROFILE

N.T.S.

1
D10



72" CMP CULVERT SECTION

N.T.S.

2
D10

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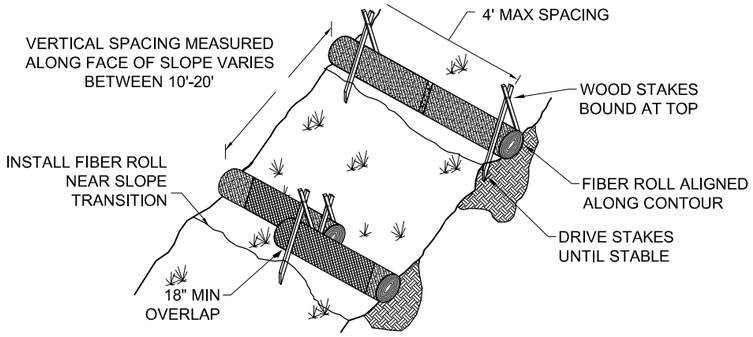
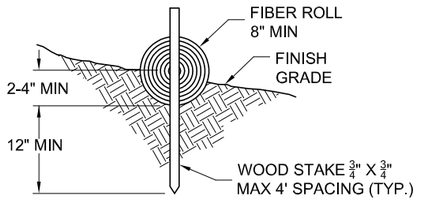
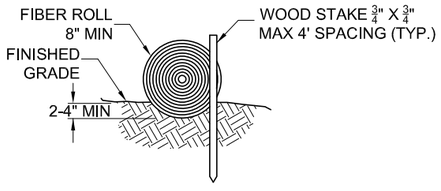


TYPICAL FIBER ROLL INSTALLATION



ENTRENCHMENT DETAIL
IN SLOPE AREA

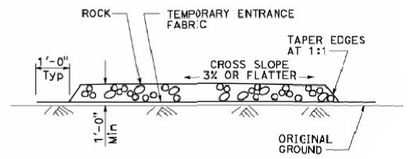


ENTRENCHMENT DETAIL
IN FLAT AREA

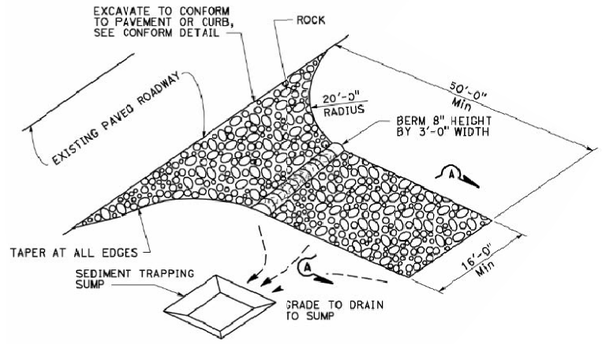
FIBER ROLLS

N.T.S.

1 / D11

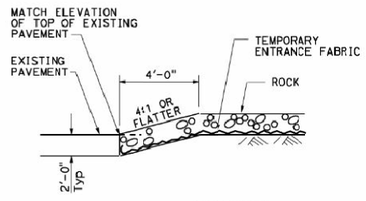


SECTION A-A



PERSPECTIVE

TEMPORARY CONSTRUCTION ENTRANCE



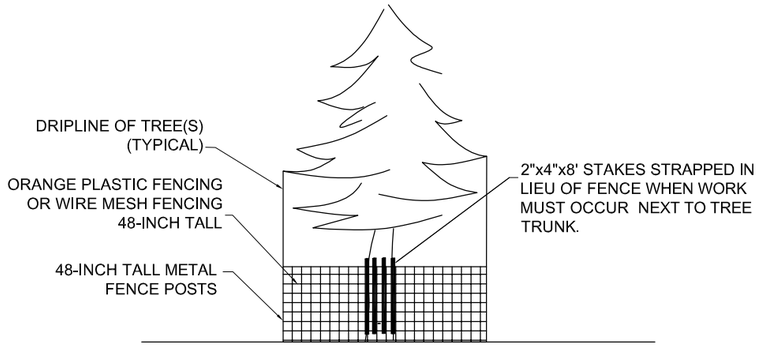
SECTION

CONFORM DETAIL

STABILIZED CONSTRUCTION ENTRANCE

N.T.S.

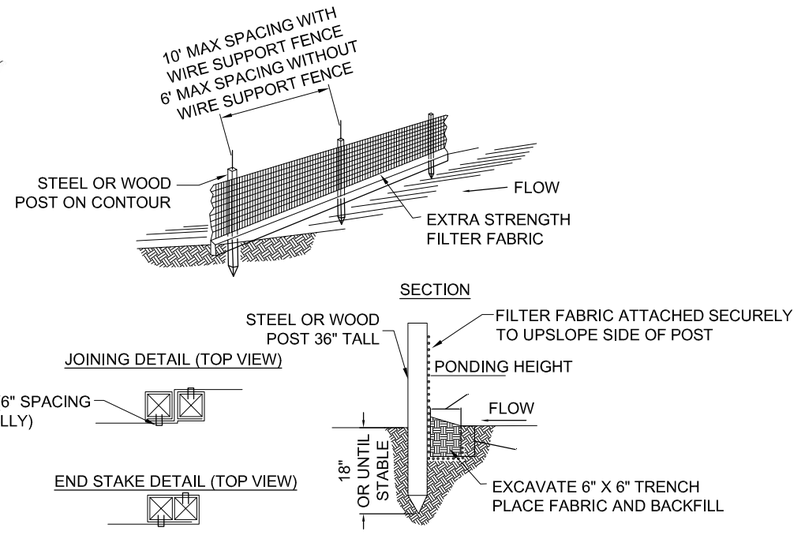
2 / D11



TREE PROTECTION/PROJECT PERIMETER FENCING

N.T.S.

3 / D11



NOTES:

1. USE PRINCIPALLY IN AREAS WHERE SHEET FLOW OCCURS.
2. DO NOT USE IN STREAMS, CHANNELS, OR ANYWHERE FLOW IS CONCENTRATED. DO NOT USE SILT FENCES TO DIVERT FLOW.
3. DO NOT USE BELOW SLOPES SUBJECT TO CREEP, SLUMPING, OR LANDSLIDES.
4. SILT FENCE SHOULD BE WOVEN POLYPROPYLENE WITH A MINIMUM WIDTH OF 36 INCHES AND A MINIMUM TENSILE STRENGTH OF 100 LB FORCE.
5. INSTALL ALONG A LEVEL CONTOUR, SO WATER DOES NOT POND MORE THAT 1.5 FT AT ANY POINT ALONG THE SILT FENCE.
6. THE MAXIMUM LENGTH OF SLOPE DRAINING TO ANY POINT ALONG THE SILT FENCE SHOULD BE 100 FT OR LESS.
7. THE MAXIMUM SLOPE PERPENDICULAR TO THE FENCE LINE SHOULD BE 1:1.
8. PROVIDE SUFFICIENT ROOM FOR RUNOFF TO POND BEHIND THE FENCE AND TO ALLOW SEDIMENT REMOVAL EQUIPMENT TO PASS BETWEEN THE SILT FENCE AND TOES OF SLOPES OR OTHER OBSTRUCTIONS.
9. TURN THE ENDS OF THE FILTER FENCE UPHILL TO CREATE A "J" SHAPE, TO PREVENT STORM WATER FROM FLOWING AROUND THE FENCE.
10. LEAVE AN UNDISTURBED OR STABILIZED AREA IMMEDIATELY DOWN SLOPE FROM THE FENCE WHERE FEASIBLE.
11. REMOVE SILT FENCE WHEN CONSTRUCTION IS COMPLETED.
12. REMOVE SEDIMENT WHEN DEPOSITS REACH APPROXIMATELY 1/3 HEIGHT OF BARRIER.

SILT FENCE

N.T.S.

4 / D11

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CARSON RIVER TRAIL SYSTEM
PHASE 2
EROSION CONTROL DETAILS

NEVADA

CARSON CITY

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