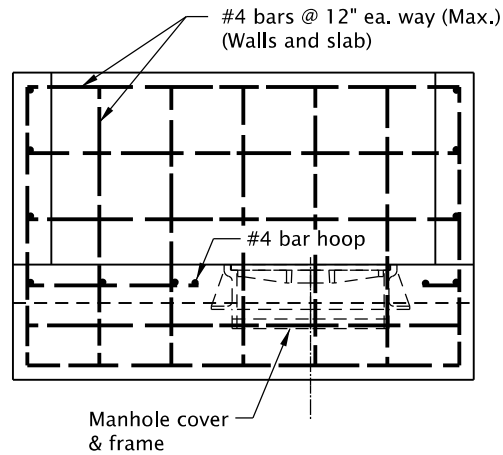


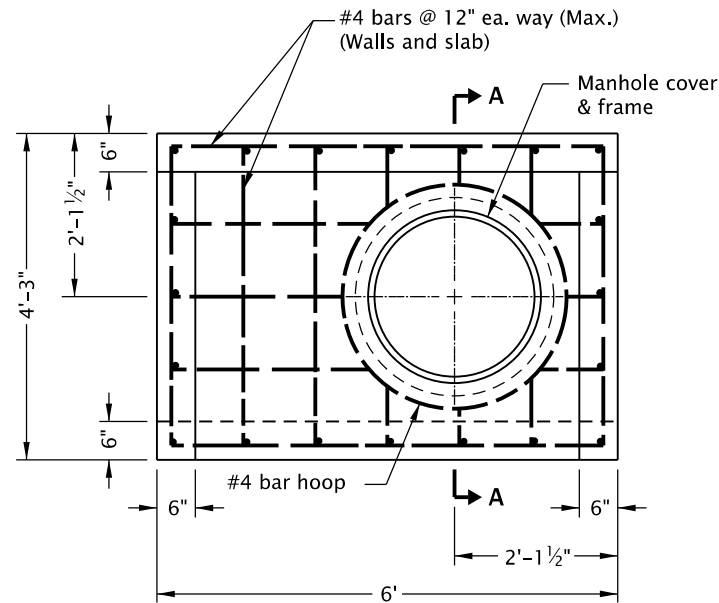
20-JUL-2020
RD358.dgn



ELEVATION

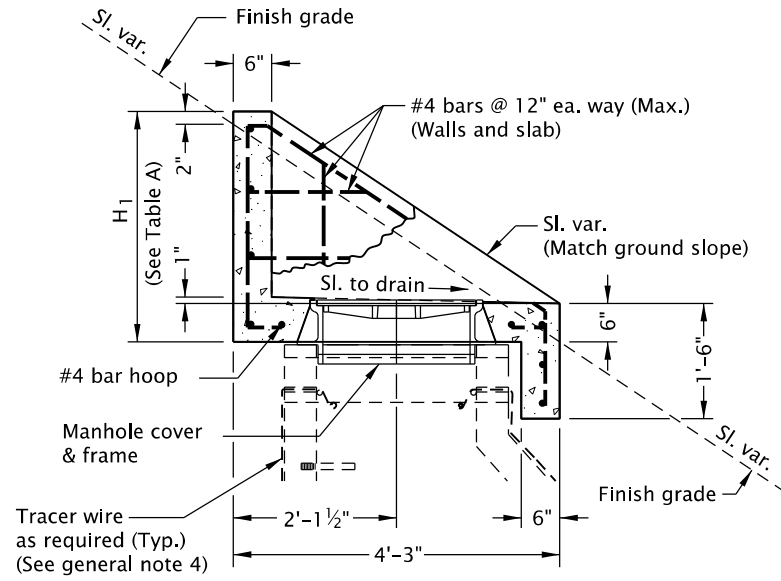
TABLE A

SLOPE	H ₁	CONC. (Cubic yard)	REINFORCEMENT (lb)
1 : 1.5	3'-0"	1.00	92
1 : 2	2'-4"	0.88	79
1 : 3	1'-8"	0.76	74
1 : 4	1'-3"	0.68	66
1 : 6	1'-0"	0.64	63

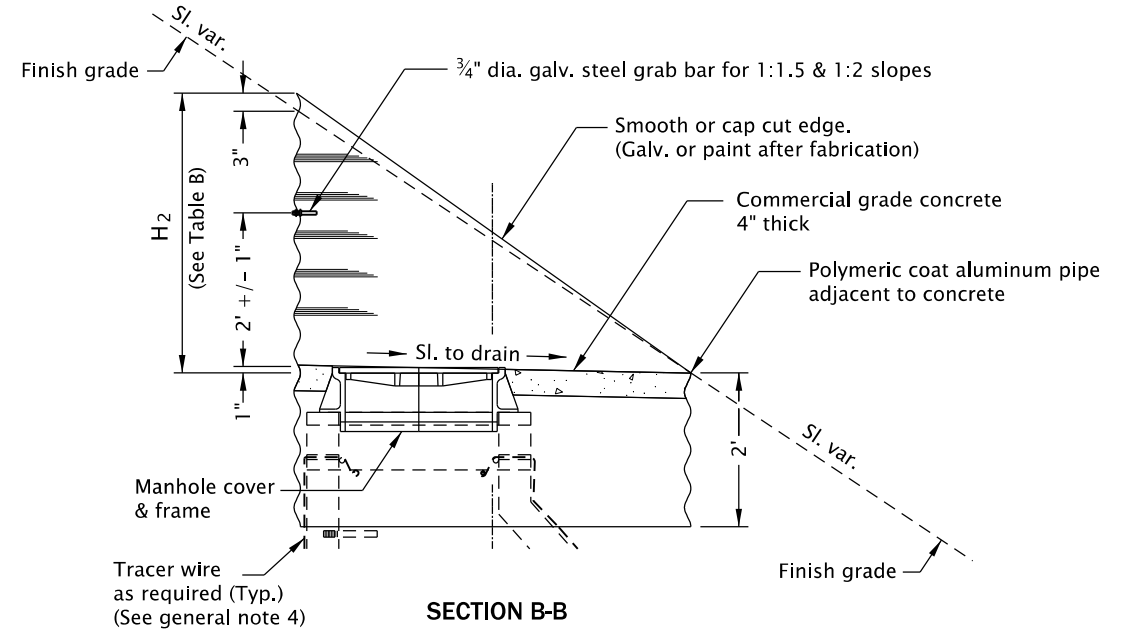


PLAN

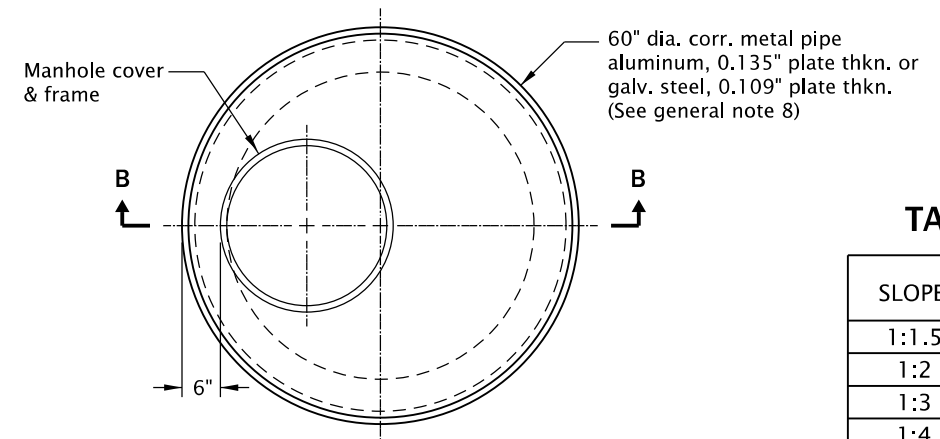
CONCRETE SLOPE PROTECTOR



SECTION A-A



SECTION B-B



PLAN

METAL PIPE SLOPE PROTECTOR

TABLE B

SLOPE	H ₂
1:1.5	3'-8"
1:2	2'-9"
1:3	2'-0"
1:4	1'-6"
1:6	1'-1"

GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:

1. All reinforcing bars shall be placed 2" clear of nearest face of conc. unless shown or noted otherwise.
2. All reinforcing bar splices to be 20 times the bar dia.
3. See Std. Dwg. RD336 for manhole steps details.
4. See Std. Dwg. RD336 for tracer wire details.
5. See Std. Dwg. RD356 for manhole cover & frame.
6. See appropriate manhole standard drawings for details not shown.
7. All concrete shall be commercial grade concrete.
8. See Std. Dwg. RD380 for details not shown.

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.

All materials shall be in accordance with the current Oregon Standard Specifications.

OREGON STANDARD DRAWINGS

MANHOLE SLOPE PROTECTORS

2024

DATE	REVISION	DESCRIPTION
CALC. BOOK NO.	N/A	SDR DATE 14-JUL-2014

RD358

Effective Date: June 1, 2026 – November 30, 2026