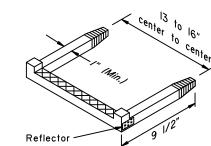


SHEET | of |



- Either precast or cast-in-place manholes may be used.
- Details for manhole frame, cover and step are generic in nature and may vary from shown depending on manufacturer
- 3. Use 8" thick cast-in-place concrete bases for depths less than 15' and 12" thick bases for depths 15' or greater.
- Manhole frames shall have a depth of 6" unless otherwise indicated on the plans.
- 5. Step requirements:
 - a. 18" max. vertical clearance to bottom of manhole or concrete invert.
 - b. 3" minimum embedment.
 - c. 1,500 lb. min. pullout force.
 - d. ASTM A-615 grade 60 steel bar.
 - e. Injection molded polypropylene covering meeting ASTM D-41010
 - f. Slip resistant foot tread with "wings" to prevent feet from sliding off the edge.
 - g. Reflectors at step corners
- 6. Reinforcement for precast manhole sections shall meet AASHTO M 199.



STEP DETAIL

STEP CROSS

SECTION



(2) I I/4" lift holes or

pick holes diametrically opposite on cover.

— Vented Cover

MANHOLE IN PAVEMENT

GRADE RING

Manhole wall reinforcement: No. 4 bars 12" o.c. vertically No. 4 bars 12" o.c. horizontally

symettry

centered in the wall.



2'-3"

12-14" equal vert. spacing

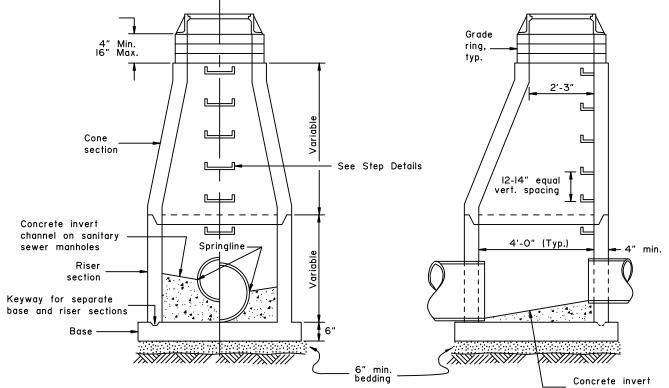
24" max

step

Grade

ring,

typ.



PRECAST CONCRETE MANHOLE

Reinforcement not shown for clarity
See Note 6

See Note 3

4" Min.

4'-0" (Typ.)

XX///XX///

16" Max.

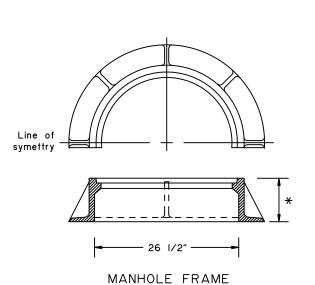
See step

details

12"

Min.

XXX///XXX///



MANHOLE COVER

MANHOLE FRAME & COVER MINIMUM WEIGHT		
* Depth	6"	380 lbs
	7"	400 lbs
	8"	440 lbs
	9"	470 lbs
	10"	500 lbs

ALASKA STANDARD PLAN
MANHOLES, FRAME
AND COVER

State of Alaska DOT&PF

Adopted as an Alaska Standard Plan by:

y: function fish.

Kenneth J. Fisher, P.E.

Chief Engineer

Adoption Date: 02/08/2019

Last Code and Stds. Review

y: Dat

Next Code and Standards Review date: 02/08/2029

D-20.05