

MANHOLE FRAME AND LOCKING COVER, SEE WSDOT STANDARD PLAN B-30.70. LOCKING COVER TO HAVE ONE, 1-INCH PICK HOLE. BLIND PICK NOTCH IS NOT ACCEPTABLE.

ADJUSTMENT GRADE RINGS, LEVELING BRICKS MAY BE USED ON TOP RING, SEE STANDARD PLAN 4-5

3/8" GROUT, INSIDE, OUTSIDE AND IN BETWEEN GRADE RINGS

HANDHOLD (TYP.) SEE STANDARD PLAN 4-5

PRECAST CONE (ECCENTRIC UNLESS OTHERWISE SPECIFIED)

DROP RUNG SAFETY STEPS, SEE STANDARD PLAN 4-5

PRECAST RISER SECTIONS. GROUT SECTION JOINTS AND PICKHOLES (TYP)

LADDER EMBEDDED IN CHANNEL SHELF SEE STANDARD PLAN 4-5

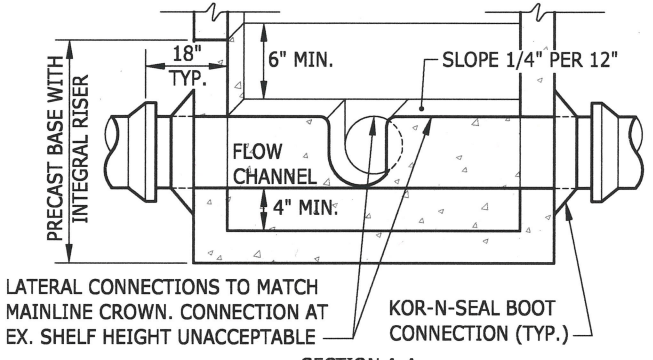
CONSTRUCT IN FIELD: CHANNEL AND SHELF TO THE CROWN OF THE PIPE, SLOPE=2% (TYP.) 1/4" PER FOOT

REINFORCING STEEL (FOR PRECAST BASE WITH INTEGRAL RISER) 0.15 SQ. IN./FT. IN EACH DIRECTION FOR 48" DIA 0.19 SQ. IN./FT. IN EACH DIRECTION FOR 54" DIA.

PRECAST BASE WITH INTEGRAL RISER

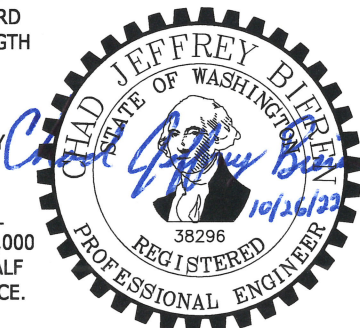
CSTC PIPE BEDDING, 12" MIN. COMPACTED DEPTH.

DESIGN ASSUMPTIONS HEIGHT:
 8' TO 12'; SOIL BEARING VALUE EQUALS 3300 #/FT. (MIN.) HEIGHT:
 OVER 12' TO 25'; SOIL BEARING VALUE EQUALS 3800 #/FT. (MIN.)



NOTES:

1. MANHOLE REQUIRED WHEN CONNECTION TO MAIN IS 8" DIA. OR GREATER.
2. MANHOLES TO BE CONSTRUCTED IN ACCORDANCE W/ AASHTO M-199 AND (ASTM C 478) UNLESS OTHERWISE SHOWN ON PLANS OR NOTED IN THE WSDOT STD. SPECS.
3. PRECAST BASES SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MINIMUM.
4. KNOCKOUT OR CUTOUT HOLE SIZE IS EQUAL TO PIPE OUTER DIAMETER PLUS MANHOLE WALL THICKNESS. MAX. HOLE SIZE IS 36" FOR 48" MANHOLE, 42" FOR 54" MANHOLE. MIN. DISTANCE BETWEEN HOLES IS 8".
5. MANHOLE RINGS & COVERS SHALL BE IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATIONS & MEET THE STRENGTH REQUIREMENTS OF FEDERAL SPECIFICATION RR-F-621D. MATING SURFACES SHALL BE FINISHED TO ASSURE NON-ROCKING FIT WITH ANY COVER POSITION.
6. ALL BASE REINFORCING STEEL SHALL HAVE A MIN. YIELD STRENGTH OF 60,000 PSI AND BE PLACED IN THE UPPER HALF OF THE BASE WITH 1" MIN. CLEARANCE.
7. ALL SANITARY SEWER MANHOLES SHALL BE VACUUM TESTED. IN LOCATIONS WITH HIGH WATER TABLE, EXTERIOR COATING AND JOINT SEALANT TAPE WILL BE REQUIRED TO PREVENT HYDRO STATIC WATER INFILTRATION OF MANHOLE.
8. MORTAR 3/8" LINING OUTSIDE, INSIDE, AND IN BETWEEN THE ADJUSTMENT SECTION TO FORM A SMOOTH WATERTIGHT FINISH.
9. GROUT ALL MANHOLE SECTION JOINTS AND PICKHOLES OUTSIDE AND INSIDE TO A SMOOTH FINISH.
10. 400 FT MAXIMUM SPACING OF MANHOLES (TYP).



NOTE: THIS PLAN IS NOT A LEGAL ENGINEERING DOCUMENT BUT AN ELECTRONIC DUPLICATE. THE ORIGINAL, SIGNED BY THE ENGINEER AND APPROVED FOR PUBLICATION IS KEPT ON FILE AT THE CITY OF KENT. A COPY MAY BE OBTAINED UPON REQUEST.

		CITY OF KENT ENGINEERING DEPARTMENT	
		SANITARY SEWER MANHOLE TYPE 1 48IN & 54IN	
DESIGNED	COK	SCALE	NONE
DRAWN	COK	DATE	04/2022
CHECKED	COK	ENGINEER	
APPROVED	<i>Chad Bierle</i>		
			STANDARD PLAN 4-1