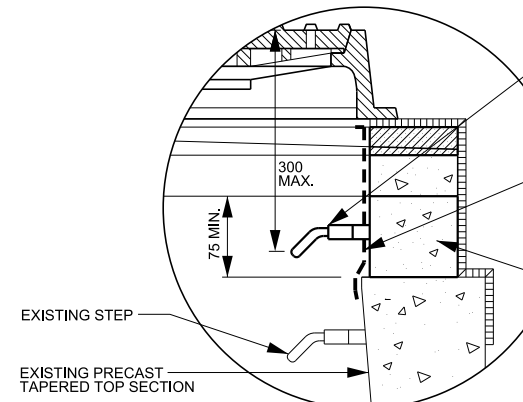
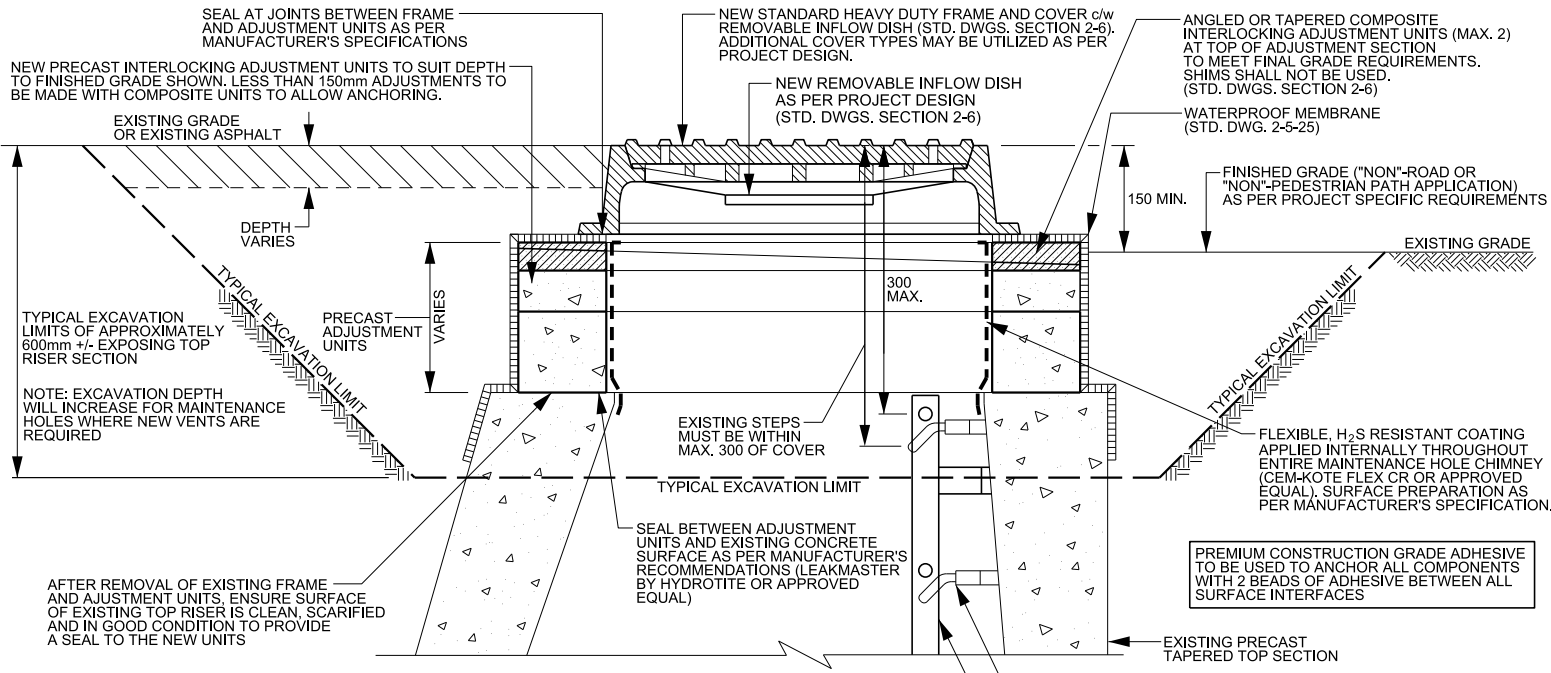


NOTE: THIS OPTION REQUIRES REMOVAL AND DISPOSAL OF EXISTING FRAME AND COVER INCLUDING EXISTING ADJUSTMENT UNITS OR BRICK



FACTORY CAST STEP MAY BE PROVIDED WITH NEW ADJUSTMENT UNIT TO MEET REQUIRED DISTANCE FROM COVER TO STEP. MINIMUM ADJUSTMENT UNIT HEIGHT TO BE 75mm AS PER MANUFACTURER'S REQUIREMENTS.

FLEXIBLE, H₂S RESISTANT COATING APPLIED INTERNALLY THROUGHOUT ENTIRE MAINTENANCE HOLE CHIMNEY (CEM-KOTE FLEX CR OR APPROVED EQUAL). SURFACE PREPARATION AS PER MANUFACTURER'S SPECIFICATION.

NEW PRECAST INTERLOCKING ADJUSTMENT UNITS TO SUIT DEPTH TO FINISHED GRADE

ALTERNATE FACTORY CAST STEP IN NEW PRECAST ADJUSTMENT UNIT

NEW FRP LADDER REQUIRED IF EXISTING STEPS DO NOT MEET MINIMUM DISTANCE REQUIREMENTS AT REPAIRED FRAME AND COVER. REMOVE ALL EXISTING STEPS AND REPAIR INSERTS IF LADDER INSTALLED. (STD. DWGS. SECTION 2-6)

NOTE: PARTIAL FRP LADDER SECTIONS MAY BE USED TO REPLACE UPPER STEPS WITH MINIMUM 2 ANCHORING (TOP AND BOTTOM) BRACKETS AS PER FRP MANUFACTURER'S REQUIREMENTS. PARTIAL SECTIONS MUST MATCH SPACING OF EXISTING STEPS WITH A MAX. 300 DISTANCE BETWEEN STEPS TO RUNGS. (STD. DWG. 2-6-9)

NOTE: REPAIR JOINT OR CRACKS WITH INJECTED HYDROPHOBIC GROUT SEALANT TO ELIMINATE ACTIVE INFLOW AND INFILTRATION AS PER MANUFACTURER'S RECOMMENDATIONS. INJECTION GROUT TO BE HYPERFLEX OR SEALGUARD II BY S1E OR APPROVED EQUAL.

- NOTE**
- REFER TO STANDARD DRAWINGS 2-8-2, 2-8-3 FOR TYPICAL REHABILITATION OPTIONS BELOW THE EXISTING MAINTENANCE HOLE TOP SECTION AND ADJUSTMENT UNITS.
 - REFER TO STANDARD DRAWING 2-8-1 FOR GENERAL NOTES PERTAINING TO REHABILITATION OF MAINTENANCE HOLES.
 - FOR MAINTENANCE HOLES IN FLOODPLAINS OR EASEMENTS WITH WATERTIGHT COVERS ON 3 OR MORE ADJACENT CHAMBERS, VENTS WILL BE REQUIRED EVERY THIRD MAINTENANCE HOLE (STD. DWG. 2-5-22).
 - CONTRACTORS ARE FULLY RESPONSIBLE TO FOLLOW ALL RECOMMENDED INSTALLATION PROCEDURES AS PER MANUFACTURER.
 - IF PRE-EXISTING CHAMBER TOP SECTION AT THE LEVEL TO BE EXCAVATED TO IS ANY CONFIGURATION OTHER THAN ROUND, THE CONTRACTOR SHALL PROVIDE A TRANSITION SECTION TO MATCH SPECIFICATIONS OF REHABILITATION PRODUCTS REQUIRED. TRANSITION SECTION CAN BE CAST-IN-PLACE OR PRECAST, MUST BE ENGINEERED AND STAMPED, SHALL PROVIDE WATERTIGHT CONNECTION BETWEEN ALL SURFACES AND SHALL BE PROPERLY ANCHORED TO EXISTING CHAMBER.
 - ADDITIONAL COVER TYPES MAY BE UTILIZED TO MEET ADDITIONAL CRITERIA AS PER PROJECT DESIGN.
 - MULTIPLE PRECAST ADJUSTMENT UNITS SHOWN, MONOLITHIC OR COMPOSITE GRADE ADJUSTMENT UNITS MAY BE UTILIZED INSTEAD, OR IN PART, TO MEET ADDITIONAL CRITERIA AS PER PROJECT DESIGN.
 - ANGLED OR TAPERED ADJUSTMENT UNITS (COMPOSITE) TO BE USED AT TOP OF ADJUSTMENT UNIT SECTION TO MEET FINAL GRADE REQUIREMENTS. USE OF SHIMS IS NOT PERMITTED TO MEET FINAL GRADE REQUIREMENTS.

NEW CONSTRUCTION		REHABILITATION
FULL EXCAVATION	PARTIAL EXCAVATION	NO EXCAVATION
INTERNAL		EXTERNAL
ROW	FLOOD PLAIN	EASEMENT
II	H2S	SECURITY



**PUBLIC WORKS
STANDARD DRAWING**

**REHABILITATION
STANDARD FRAME AND COVER SYSTEM
AND PRECAST GRADE ADJUSTMENT UNITS
WITH PARTIAL EXCAVATION**

REV. DATE: NOVEMBER 2019

REVISION NUMBER: 1	FOR REVISION TRACKING REFER TO STD. DWG. 2-0-2
APPROVED BY	DRAWN BY
A.P.	AINLEY GROUP
STD. DWG. NUMBER	SCALE
2-8-6	N.T.S.