SPECIFICATIONS

PART 1 SUBMITTALS

PRECASTER TO SUBMIT SHOP DRAWING TO CONTRACTOR FOR ENGINEER'S APPROVAL.

PART 2 PRODUCTS

2.1 FLOW KIT COMPONENTS

A. PVC PIPING: ALL INTERNAL PVC PIPING AND FITTINGS SHALL MEET ASTM D1785.
B. SLIDE GATE VALVE: SHALL BE CONSTRUCTED OF PVC WITH STAINLESS STEEL SHAFT AND ALUMINUM HANDLE.
C. THE WEIR: SHALL BE CONSTRUCTED OF PVC, FRP, PLASTIC AND STAINLESS STEEL.
D. STEEL REINFORCED POLYPROPYLENE STEPS ARE INSTALLED AS REQUIRED.
E. ORIFICE PLATE: SHALL BE CONSTRUCTED OF PVC OR STAINLESS STEEL.
F. FLOW KIT COMPONENTS ARE AVAILABLE FROM LOCAL SUPPLIERS.

2.2 PRE-CAST CONCRETE STRUCTURE COMPONENTS

A. PRECAST CONCRETE: SHALL BE PROVIDED ACCORDING TO DRAWING 301.
B. JOINT SEALANT: SHALL BE CONSEAL CS-101 OR ENGINEER APPROVED EQUIVALENT.

2.3 CONTRACTOR PROVIDED COMPONENTS

A. CONCRETE (FOR CONCRETE NOT COVERED BY PRE-CAST SPECIFICATION ABOVE): SHALL BE 3000 PSI, 28 DAY STRENGTH, 3/4 INCH ROUND ROCK, 4 INCH SLUMP MAXIMUM, PLACED WITHIN 90 MINUTES OF INITIAL MIXING.
B. SILICONE SEALANT: SHALL BE PURE RTV SILICONE CONFORMING TO FEDERAL SPECIFICATION NUMBER TT S001543A TT S0023C OR ENGINEER APPROVED.
C. GROUT: SHALL BE NON-SHRINK GROUT MEETING THE REQUIREMENTS OF CORPS OF ENGINEERS CRD-C588. SPECIMENS MOLDED, CURED AND TESTED IN ACCORDANCE WITH ASTM C-109 SHALL HAVE MINIMUM COMPRESSIVE STRENGTH OF 6,200 PSI. GROUT SHALL NOT EXHIBIT VISIBLE BLEEDING.
D. SUB-BASE: SHALL BE SIX (6) INCH MINIMUM OF 3/4 INCH MINUS ROCK, 95% COMPACTION. COMPACT UNDISTURBED SUB-GRADE MATERIALS TO 95% OF MAXIMUM DENSITY AT +/- 2% OF OPTIMUM MOISTURE. UNSUITABLE MATERIAL BELOW SUB-GRADE SHALL BE REPLACED TO SITE ENGINEER'S APPROVAL.
E. BACKFILL: SHALL BE 3/4 INCH MINUS ROCK (95% COMPACTION), OR AS OTHERWISE SPECIFIED IN THE PROJECTS GENERAL TECHNICAL SPECIFICATIONS.

PART 3 EXECUTION

3.1 PRECAST CONCRETE MANHOLE - PER DRAWING 301

A. CONTRACTOR TO GROUT ALL INLET AND OUTLET PIPES FLUSH WITH INTERIOR WALL. CONTRACTOR TO GROUT INTERIOR WALLS.
B. BOOTS: FOR NEW MANHOLES, USE KOR-N-SEAL BOOTS (OR EQUAL). CONNECTIONS TO EXISTING MANHOLES SHALL USE SANDED PVC COLLAR WITH GASKETED JOINT. FLEXIBLE JOINT SHALL BE NO GREATER THAN 18" FROM EXTERIOR MANHOLE WALL.

3.2 WEIRS

AT PROJECT COMPLETION, WEIRS SHALL BE SET TO SPECIFIED ELEVATION, LEVEL AND SEALED AT ALL JOINTS WITH SILICONE SEALANT. SEALANT SHALL BE WORKED INTO JOINT FROM BOTH SIDES.

3.3 CLEANUP

REMOVE ALL EXCESS MATERIALS, ROCKS, ROOTS, OR FOREIGN MATERIAL, LEAVING THE SITE IN A CLEAN, COMPLETE CONDITION APPROVED BY THE ENGINEER. ALL PVC AND FIBERGLASS FILTER COMPONENTS SHALL BE FREE OF ANY FOREIGN MATERIALS, INCLUDING CONCRETE AND EXCESS SEALANT.

3.4 PVC PIPING

SHALL BE JOINDED IN ACCORDANCE WITH ASTM D2564.

BASIC OPERATIONS MAINTENANCE GUIDELINES

A. MINIMUM ANNUAL MAINTENANCE INCLUDES INSPECTION OF COMPONENTS AND REMOVAL OF SEDIMENTS.
B. INSPECT SYSTEM CONDITION IN THE EVENT OF A 5 YEAR STORM OR GREATER.

NOTE: FOLLOW ALL LOCAL, STATE, & FEDERAL SAFETY GUIDELINES.

OREGON CITY

Public Works Standard Drawings

HIGH FLOW BYPASS MANHOLE

SCALE NTS	
DATE JAN '23	REV.
ENGR. DW	DRAWN KAE
DRAWING NO. 602-2	