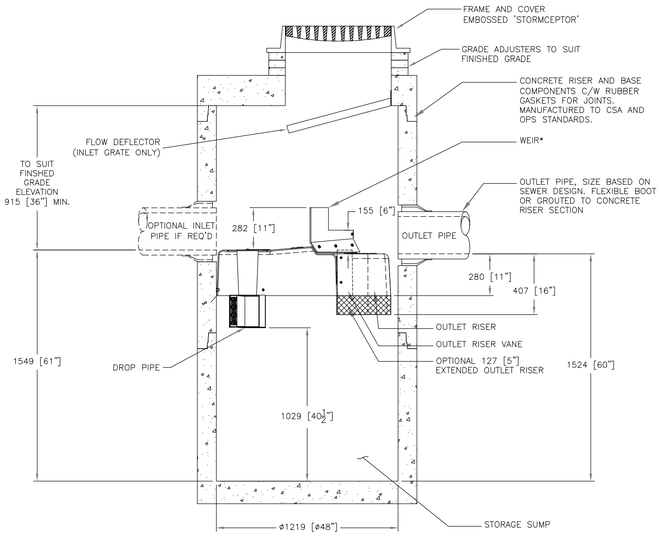
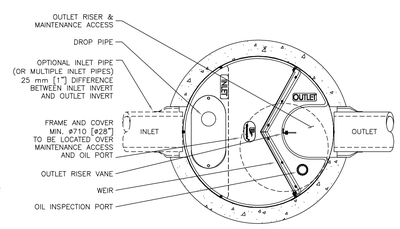
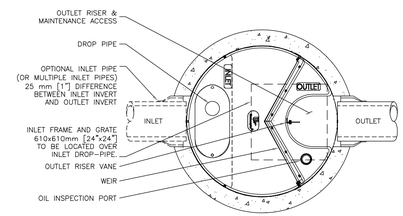


SECTION VIEW



PLAN VIEW (STANDARD)



PLAN VIEW (INLET TOP)

FOR SITE SPECIFIC DRAWINGS PLEASE CONTACT YOUR LOCAL STORMCEPTOR REPRESENTATIVE. SITE SPECIFIC DRAWINGS ARE BASED ON THE BEST AVAILABLE INFORMATION AT THE TIME. SOME FIELD REVISIONS TO THE SYSTEM LOCATION OR CONNECTION PIPING MAY BE NECESSARY BASED ON AVAILABLE SPACE OR SITE CONFIGURATION REVISIONS. ELEVATIONS SHOULD BE MAINTAINED EXCEPT WHERE NOTED ON BYPASS STRUCTURE (IF REQUIRED).

GENERAL NOTES:
* MAXIMUM SURFACE LOADING RATE (SLR) INTO LOWER CHAMBER THROUGH DROP PIPE IS 1135 L/min/m2 (27.9 gpm/ft2) FOR STORMCEPTOR EF4 AND 535 L/min/m2 (13.1 gpm/ft2) FOR STORMCEPTOR EFO4 (OIL CAPTURE CONFIGURATION). WEIR HEIGHT IS 150 mm (6 INCH) FOR EFO4.
1. ALL DIMENSIONS INDICATED ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SPECIFIED.
2. STORMCEPTOR STRUCTURE INLET AND OUTLET PIPE SIZE AND ORIENTATION SHOWN FOR INFORMATIONAL PURPOSES ONLY.
3. UNLESS OTHERWISE NOTED, BYPASS INFRASTRUCTURE, SUCH AS ALL UPSTREAM DIVERSION STRUCTURES, CONNECTING STRUCTURES, OR PIPE CONDUITS CONNECTING TO COMPLETE THE STORMCEPTOR SYSTEM SHALL BE PROVIDED AND ADDRESSED SEPARATELY.
4. DRAWING FOR INFORMATION PURPOSES ONLY. REFER TO ENGINEER'S SITE/UTILITY PLAN FOR STRUCTURE ORIENTATION.
5. NO PRODUCT SUBSTITUTIONS SHALL BE ACCEPTED UNLESS SUBMITTED 10 DAYS PRIOR TO PROJECT BID DATE, OR AS DIRECTED BY THE ENGINEER OF RECORD.

INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STRUCTURE (LIFTING CLUTCHES PROVIDED)
C. CONTRACTOR WILL INSTALL AND LEVEL THE STRUCTURE, SEALING THE JOINTS, LINE ENTRY AND EXIT POINTS (NON-SHRINK GROUT WITH APPROVED WATERSTOP OR FLEXIBLE BOOT)
D. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT THE DEVICE FROM CONSTRUCTION-RELATED EROSION RUNOFF.
E. DEVICE ACTIVATION, BY CONTRACTOR, SHALL OCCUR ONLY AFTER SITE HAS BEEN STABILIZED AND THE STORMCEPTOR UNIT IS CLEAN AND FREE OF DEBRIS.

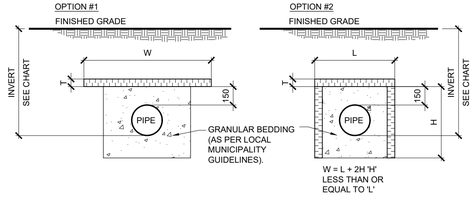
STANDARD DETAIL
NOT FOR CONSTRUCTION

SITE SPECIFIC DATA REQUIREMENTS

STORMCEPTOR MODEL	EFO4				
STRUCTURE ID					*
HYDROCARBON STORAGE REQ'D (L)					*
WATER QUALITY FLOW RATE (L/s)					*
PEAK FLOW RATE (L/s)					*
RETURN PERIOD OF PEAK FLOW (yrs)					*
DRAINAGE AREA (HA)					*
DRAINAGE AREA IMPERVIOUSNESS (%)					*
PIPE DATA:	I.E.	MAT'L	DIA	SLOPE %	HGL
INLET #1	*	*	*	*	*
INLET #2	*	*	*	*	*
OUTLET	*	*	*	*	*

* PER ENGINEER OF RECORD

1 OIL GRIT SEPARATOR DETAIL
C504-0 SCALE:NTS



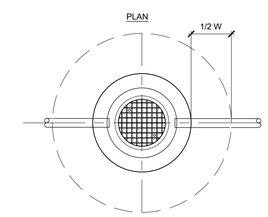
INSULATION CHART

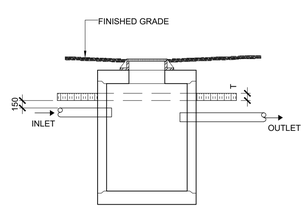
PIPE INVERT	INSULATION THICKNESSES	WIDTH W	HEIGHT "H"
900 - 1199	50	2400	600
1200 - 1499	40	1800	600
1500 - 1799	25	1200	600
1800 - 2100	25	600	600

*DESIGN INSTALL THICKNESS IS A PRODUCT OF CURRENT SUPPLY AND DEMAND AVAILABILITY OF PRODUCT, 2400L X 600W X 50 THICK.
** MINIMUM WIDTHS TAKEN FROM 600 WIDE SHEET BEING AVAILABLE FOR SIDEWALLING TO DEPTH "H"

NOTE:
INSULATION TYPE TO BE STYROFOAM HIGH LOAD 40. OR APPROVED EQUIVALENT.

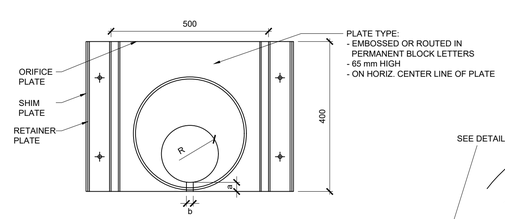
FOR PIPES



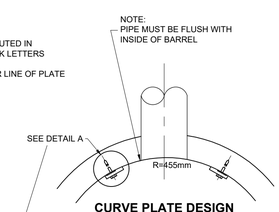


FOR CATCH BASINS & MANHOLES

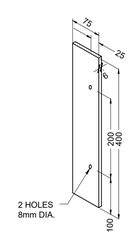
2 FROST PROTECTION DETAIL
C504-0 SCALE:NTS



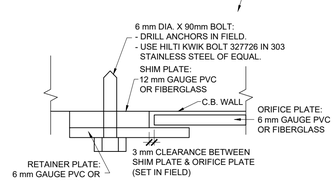
FRONT VIEW



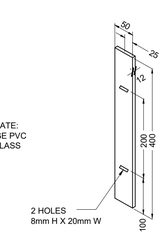
CURVE PLATE DESIGN



RETAINER PLATE



DETAIL A



SHIM PLATE

ICD SIZE
ORIFICE PLATE
a=0 mm
b=0 mm
R=55 mm

3 ICD (INLET CONTROL DEVICE) DETAIL
C504-0 SCALE:NTS

SITE SERVICING NOTES

GENERAL NOTES
1. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING INVERTS AND ELEVATIONS USED IN THE CONSTRUCTION OF THIS SITE. DISCREPANCIES MUST BE REPORTED TO THE CONSULTING ENGINEER PRIOR TO ORDERING PRE-MANUFACTURED STORM, SANITARY AND WATER FIXTURES AND FITTINGS.
2. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL UTILITIES DURING CONSTRUCTION. GAS, HYDRO, TELEPHONE, OR ANY OTHER UTILITY THAT MAY EXIST ON THE SITE OR WITHIN THE STREET LINES MUST BE LOCATED BY THE RESPECTIVE UTILITY AND VERIFIED PRIOR TO CONSTRUCTION. SHOULD SUBSTANTIAL DISCREPANCIES BECOME APPARENT, CONTACT THE CONSULTING ENGINEER.
3. THIS SITE PLAN WAS CREATED FROM AN EXISTING SURVEY PROVIDED BY 'IBW SURVEYORS LTD.', DATED SEPTEMBER 5, 2025, DWG. A054529. ALL ELEVATIONS ARE GEODETIC AND REFERRED TO THE CANADIAN GEODETIC VERTICAL DATUM (CGVD28:78).
4. ALL WORK TO BE CARRIED OUT ON SITE TO BE COMPLETED IN ACCORDANCE WITH ALL LOCAL BY-LAW STANDARDS AND ACTS.
5. PROVIDE FROST PROTECTION WITH DOW HI LOAD 40 FOR ALL SEWER LINES TO PROPERTY LINE IN ACCORDANCE WITH FROST PROTECTION DETAIL.
6. ALL MATERIALS TO BE NEW, CSA APPROVED & CONFORM TO CITY OF OTTAWA STANDARDS.

SANITARY SEWERS
1. ALL SANITARY SEWERS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS.
2. ALL SANITARY SEWER PIPE AND FITTINGS SHALL BE PVC AND CERTIFIED TO CAN/CSA B181.2-M OR B182.2-M. 150 DIA AND SMALLER TYPE PSM PIPE SHALL BE SDR 28. 200 DIA AND LARGER TYPE PSM PIPE SHALL BE SDR35. GASKETS SHALL BE STANDARD MANUFACTURER SUPPLIED MATERIAL .
3. SEWER BEDDING SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS.
4. MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS AND BE EQUIPPED WITH FRAMES AND SOLID COVERS. SEAL AROUND PIPES ENTERING MANHOLES WITH FLEXIBLE SEALANT. SEAL ALL BARREL JOINTS WITH SEALANT AT TIME OF INSTALLATION. MINIMUM MANHOLE SIZE SHALL BE 1200ø CONTRACTOR SHALL COORDINATE WITH MANUFACTURER FOR FINAL MANHOLE DIAMETER, IN ACCORDANCE WITH PIPE SIZES ENTERING AND LEAVING AND INVERTS.

STORM SEWERS
1. ALL STORM SEWERS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS.
2. STORM SEWER PIPE AND FITTINGS SHALL BE PVC AND CERTIFIED TO CAN/CSA B181.2, B182.2, OR B182.4. 100ø PSM SHALL BE SDR28, 150ø AND LARGER TYPE PSM PIPE SHALL BE SDR35. GASKETS SHALL BE NITRILE, VITON, OR OTHER PETROLEUM-RESISTANT MATERIAL.
3. SEWER BEDDING SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS.
4. MANHOLES/CATCH BASIN MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS AND BE EQUIPPED WITH FRAMES AND SOLID COVERS/GRATED COVERS. SEAL AROUND PIPES ENTERING MANHOLES WITH PETROLEUM-RESISTANT FLEXIBLE SEALANT AND CEMENT GROUT INSIDE AND OUTSIDE OF MANHOLE PENETRATION. SEAL ALL BARREL JOINTS WITH PETROLEUM-RESISTANT SEALANT AT TIME OF INSTALLATION. MINIMUM MANHOLE SIZE SHALL BE 1200ø CONTRACTOR SHALL COORDINATE WITH MANUFACTURER FOR FINAL MANHOLE DIAMETER, IN ACCORDANCE WITH PIPE SIZES ENTERING AND LEAVING AND INVERTS.
5. CATCH BASINS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS AND BE EQUIPPED WITH FRAMES AND GRATES. SEAL AROUND LEAD PIPES WITH PETROLEUM-RESISTANT FLEXIBLE SEALANT AND CEMENT GROUT INSIDE AND OUTSIDE OF CATCHBASIN PENETRATION. SEAL ALL BARREL JOINTS WITH PETROLEUM-RESISTANT SEALANT AT TIME OF INSTALLATION. MINIMUM CATCH BASIN SIZE SHALL BE 900ø. CONTRACTOR SHALL COORDINATE WITH MANUFACTURER FOR FINAL CATCH BASIN DIAMETER.
6. ALL CATCH BASINS WITHIN 6 METRES OF A DISPENSING ISLAND SHALL BE BENCHED IN ACCORDANCE WITH LOCAL STANDARDS, AND WEEP HOLES SHALL BE SEALED. ALL OTHER CATCH BASINS SHALL BE PROVIDED WITH MINIMUM 500 DEEP SUMPS.
7. OGS, STORMCEPTOR EFO4.

WATER LINES
1. ALL WATER LINES AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS.
2. WATER LINE SYSTEM SHALL BE SUITABLE FOR 1000 KPA DESIGN PRESSURE.
3. PIPE 50ø AND SMALLER SHALL BE SOFT COPPER TYPE 'K' AND CERTIFIED TO ASTM B88.
4. WATER LINES AND SERVICE CONNECTION SHALL BE BEDDED IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS.
5. WATER SERVICE CONNECTION DETAIL SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS.
6. CLEAR COVER OVER ALL WATER LINES SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS BUT NOT LESS THAN 3000.
7. WATER SERVICE UNDER BUILDINGS SHALL BE JOINT-FREE.

GAS LINES
1. GAS PIPING SHALL BE EITHER STEEL OR PLASTIC.
2. STEEL GAS PIPING SHALL COMPLY WITH ASTM A53 GR A OR A106, AND USE ANSI/ASME B16.3 MALLEABLE IRON FITTINGS. STEEL PIPE AND FITTINGS SHALL BE COATED WITH AN ASPHALT COATING AND COVERED WITH A HDPE JACKET.
3. PLASTIC PIPING SHALL BE MDPE SDR 11 COMPLYING WITH CAN/CSA-B137.4.

INSPECTIONS BY CONSULTING ENGINEERS
1. THE ENGINEER WILL INSPECT ALL UNDERGROUND MECHANICAL UTILITIES PRIOR TO COVERING.
2. SPECIFIC ITEMS OF INSPECTION WILL INCLUDE THE VISUAL INSPECTION OF THE FOLLOWING ITEMS PRIOR TO AND DURING ITS INSTALLATION BY THE CONTRACTOR.
   FLOW CONTROL DEVICE (ICD)
   OIL/GRIT SEPARATOR (OGS)
   TRENCH CONSTRUCTION, AND BACK FILL
   PIPE MATERIALS, BEDDING, SLOPE, STRAIGHTNESS AND CONNECTIONS.
   MH AND CB COVERS FOR FLUSH TO GRADE.
   PIPES FOR CLEANLINESS AND NO DEBRIS IN CB OR MH'S.
   ROUGH GRADE CHECK WITH EVIDENCE OF PONDING OR WATER FLOW PATTERN.
3. THE CONTRACTOR SHALL CONTACT THE ENGINEER WITH MINIMUM 48 HOURS NOTICE TO ADVISE THAT UNDERGROUND MECHANICAL UTILITIES WILL BE READY FOR INSPECTION.
4. FAILURE BY THE CONTRACTOR TO NOTIFY THE CONSULTANT ENGINEER OF DUE INSPECTIONS WILL RESULT IN THE CONTRACTOR RE-EXPOSING THE BURIED OR CONCEALED WORKS THAT THE ENGINEER HAS NOT APPROVED AT THE CONTRACTORS OWN EXPENSE, FOR THE ENGINEER TO INSPECT AND APPROVE SAID WORKS. RE INSTALLING THE INSPECTED WORKS SHALL BE AT THE CONTRACTORS EXPENSE.
5. IN THE EVENT THAT THE ENGINEER INDICATES THAT THEY WILL NOT BE PERFORMING AN INSPECTION, THE CONTRACTOR SHALL TAKE REPRESENTATIVE PHOTOGRAPHS OF ALL ASPECTS OF THE WORK THAT THE ENGINEER WAS TO INSPECT, AND PROVIDE DIGITAL FILES OF THE PHOTOGRAPHS TO THE ENGINEER.

I/R	DATE	REVISION DESCRIPTION	BY