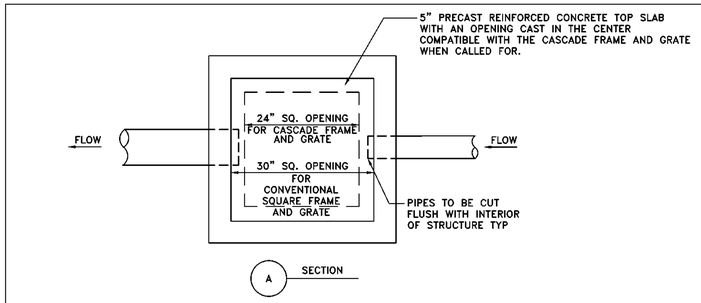
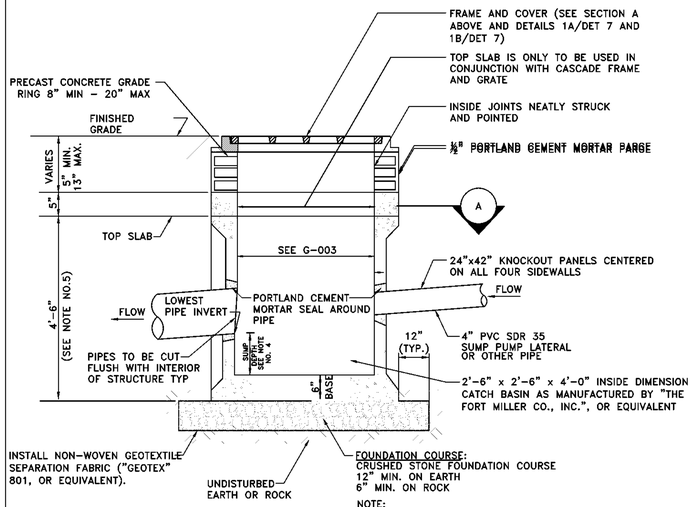




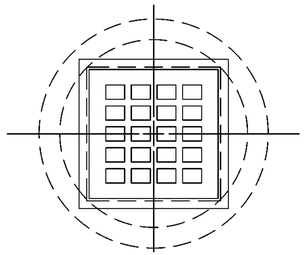
TYPICAL SECTION

NOTES:

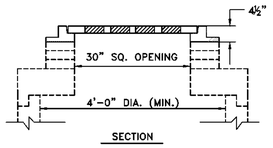
1. CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH (f'c) OF 4,000 PSI AND HAVE BETWEEN 5% AND 8% ENTRAINED AIR.
2. STRUCTURES SHALL BE WET CAST ONLY.
3. PIPES SHALL BE SET IN UPPER PORTION OF KNOCKOUT IN ORDER TO PROVIDE A 12" SUMP FOR A 12" DIAMETER PIPE AND A 9" SUMP FOR A 15" DIAMETER PIPE, FOR LARGER PIPES, USE A PRECAST CONCRETE ROUND CATCH BASIN. SEE DETAIL 2/C-501
4. PRECAST CONCRETE SQUARE CATCH BASIN AND TOP SLAB SHALL BE REINFORCED TO WITHSTAND HS 20-44 LOAD IN TRAFFIC AREAS.
5. ALL STRUCTURES WITHIN THE NYSDOT ROW SHALL FOLLOW ALL NYSDOT STANDARDS FOR CONSTRUCTION AND FOLLOW MP05-04 PROCEDURE.

1 / C-503 PRECAST CONCRETE SQUARE CATCH BASIN
SCALE: NOT TO SCALE

FRAME AND GRATE PATTERN NO. 2816-B AS MANUFACTURED BY "SYRACUSE CASTINGS", CICERO, NEW YORK, OR EQUIVALENT
-OR-
FRAME AND GRATE PATTERN NO. R-3561 AS MANUFACTURED BY "NEENAH FOUNDRY COMPANY" NEENAH, WISCONSIN, OR EQUIVALENT



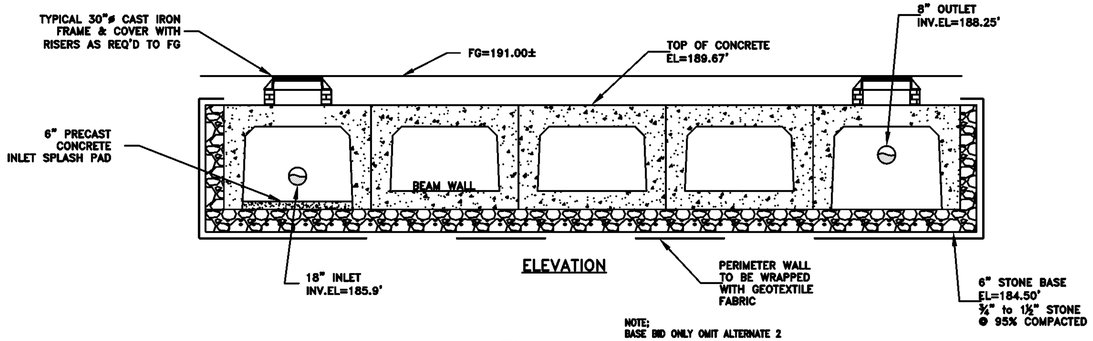
PLAN



SECTION

CONVENTIONAL SQUARE FRAME AND GRATE ON PRECAST CONCRETE ROUND CATCH BASIN

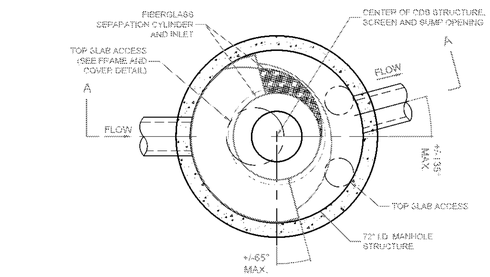
2 / C-503 PRECAST CONCRETE DRAINAGE MANHOLE
SCALE: NOT TO SCALE



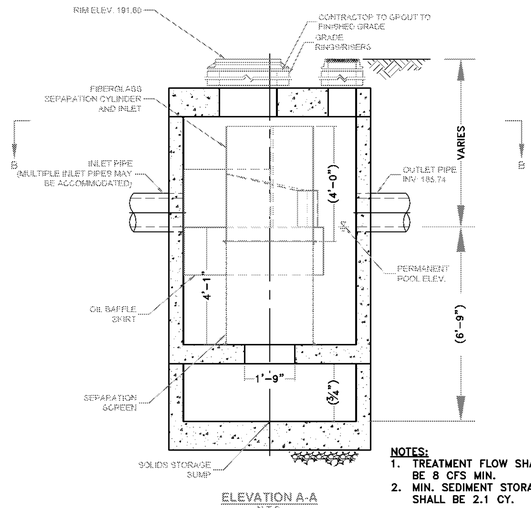
ELEVATION

NOTE;
BASE BID ONLY OMIT ALTERNATE 2

4 / C-503 TYPICAL UNDERGROUND STORMWATER INFILTRATION
SCALE: NOT TO SCALE



PLAN VIEW B-B
N.T.S.

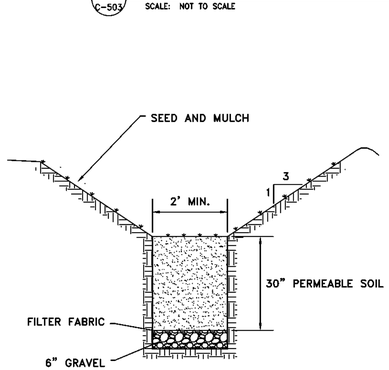


ELEVATION A-A
N.T.S.

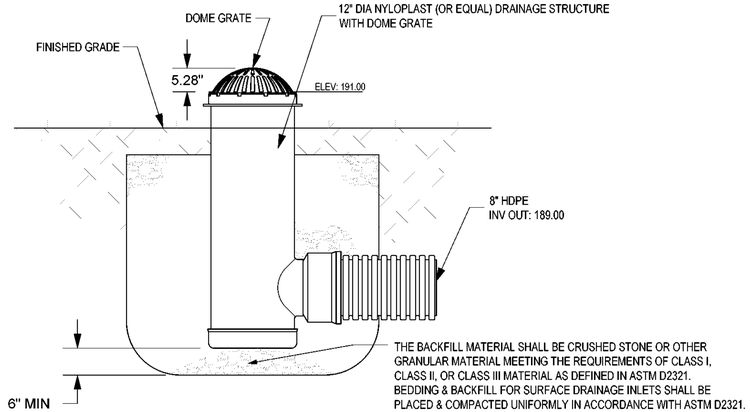
NOTES:
1. TREATMENT FLOW SHALL BE 8 CFS MIN.
2. MIN. SEDIMENT STORAGE SHALL BE 2.1 CY.

NOTE;
BASE BID ONLY OMIT ALTERNATE 2

6 / C-503 STORMWATER PRETREATMENT STRUCTURE
SCALE: NOT TO SCALE



6 / C-503 DRY SWALE
SCALE: NOT TO SCALE



THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS I, CLASS II, OR CLASS III MATERIAL AS DEFINED IN ASTM D2321. BEDDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321.

5 / C-503 NYLOPLAST STRUCTURE
SCALE: NOT TO SCALE

DATE: 8/18/2023
DRAWN BY: ERNST J.
SCALE: AS SHOWN
REVIEWED BY:
PROJECT NO.: 21-2342
FILE: C-501-SITE_DETAILS.DWG

HESNOR ENGINEERING ASSOCIATES
WWW.HESNOR.COM

KEYSTONE ASSOCIATES
WWW.KEYSTONEASSOC.COM

DELAWARE ENGINEERING, D.P.C.
WWW.DELAWAREENGINEERING.COM

ABEN F. AMARO
095259-1
LICENSED PROFESSIONAL ENGINEER
STATE OF NEW YORK

REVISIONS

NO	DATE	DESCRIPTION

PORT EWEN FIRE DEPARTMENT
ULSTER COUNTY, NY

STORM DETAILS BASE BID

BID PLANS

SHEET:
C-503

WARNING - IT IS A VIOLATION OF NEW YORK EDUCATION LAW SECTION 7209.2, FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER THIS DOCUMENT IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK EDUCATION LAW, SECTION 7209.2

H:\Drawings\Port Ewen\Civil site work\C-501-SITE_Details.dwg