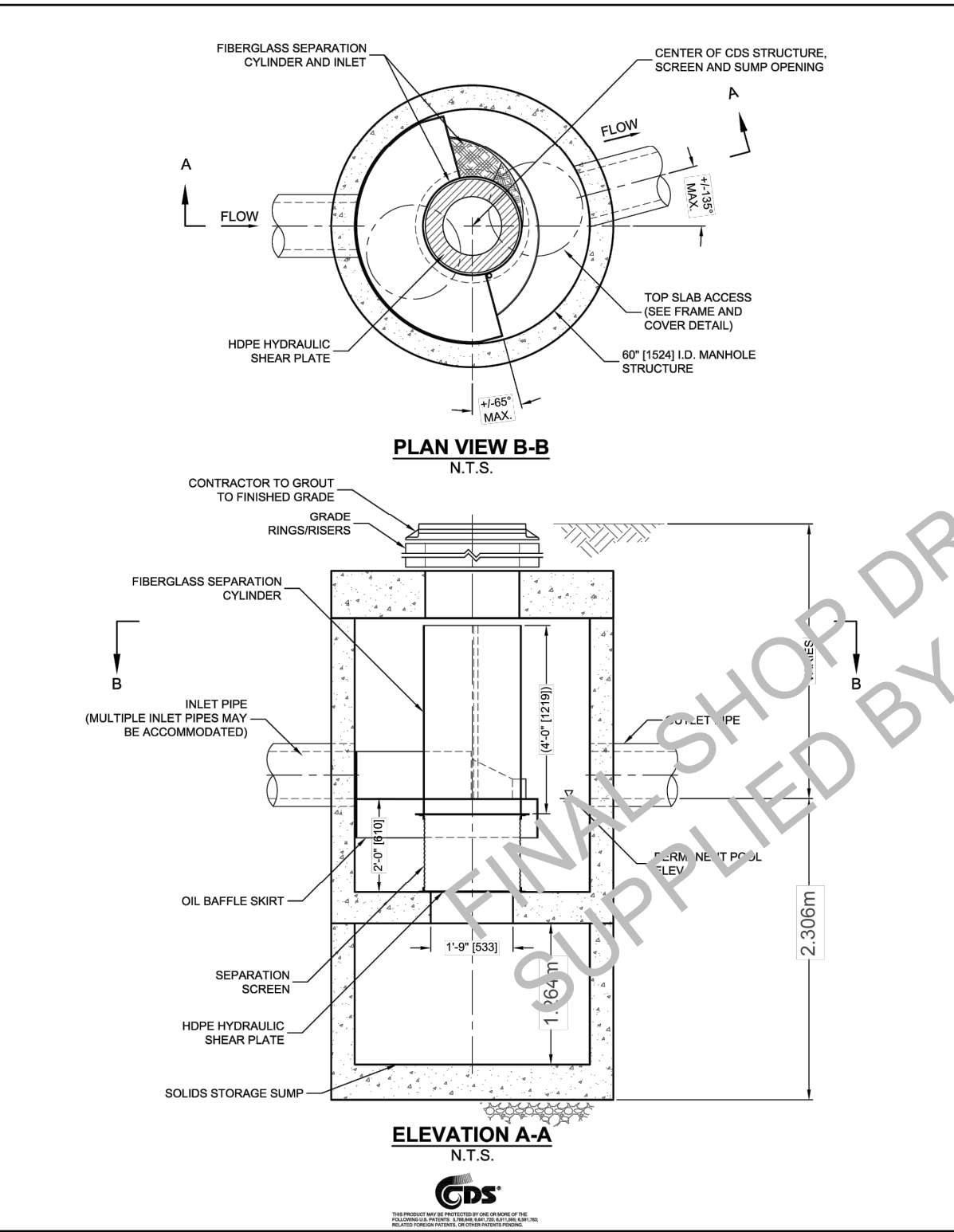
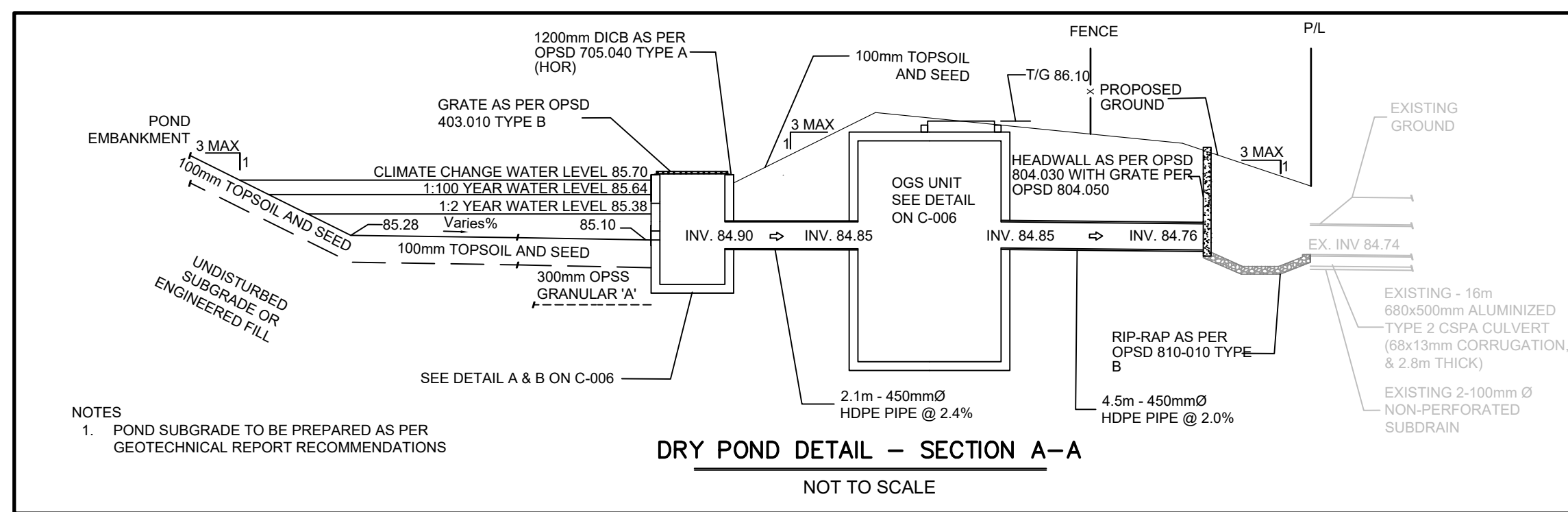


GENERAL CONSTRUCTION NOTES

- CONTRACTOR TO CARRY OUT WORKS PER THE CURRENT CITY OF OTTAWA STANDARD DRAWINGS AND SPECIFICATIONS AND PER THE ONTARIO PROVINCIAL STANDARD DRAWINGS AND SPECIFICATIONS.
- CONTRACTOR TO READ THE SITE'S SERVICING DESIGN PLAN IN CONJUNCTION WITH THE LATEST SITE SERVICING REPORT, PREPARED BY J.L. RICHARDS & ASSOCIATES LIMITED, FOR THE PROPOSED CONSTRUCTION WORKS.
- ALL SOIL DISPOSAL FROM SITE TO BE COORDINATED WITH THE HYDRO ONE ENVIRONMENTAL TEAM.
- THE NOMINAL DIAMETER OF PIPES ARE REFERRED TO IN PLAN VIEW.
- CONTRACTOR RESPONSIBLE FOR OBTAINING ALL SITE UTILITY LOCATES BEFORE CONSTRUCTION.
- CONTRACTOR RESPONSIBLE FOR ALL EXCAVATION, BACKFILL AND REINSTATEMENT OF ALL AREAS DISTURBED DURING CONSTRUCTION AND ANY ASSOCIATED WORKS TO THE SATISFACTION OF THE ENGINEER AND CITY OF OTTAWA.
- SEPTIC SYSTEM (TREATMENT TANKS & LEACHING BED) PER WSP GOLDER'S - NEW SEPTIC DESIGN - TECHNICAL MEMORANDUM (SEPT. 2022).
- ALL CONNECTIONS TO EXISTING WELL TO BE IN ACCORDANCE WITH THE CITY OF OTTAWA DESIGN GUIDELINES. CONTRACTOR TO PROVIDE EXCAVATION BACKFILLING, COMPACTION AND REINSTATEMENTS, IN ACCORDANCE WITH THE LATEST GEOTECHNICAL INVESTIGATION PREPARED BY GOLDER ASSOCIATES FOR THE SITE.
- CONTRACTOR RESPONSIBLE FOR DETERMINING, VIA EXCAVATION, THE EXACT LOCATION AND ELEVATION OF THE EXISTING UNDERGROUND UTILITIES AND STRUCTURES AS REQUIRED FOR ALL PROPOSED CONNECTIONS, RELOCATIONS, AND BLANKINGS.
- FOR ALL PROPOSED CONNECTION POINTS (IF ANY), THE CONTRACTOR IS RESPONSIBLE FOR THE REINSTATEMENT OF ALL SURFACES TO EXISTING CONDITIONS OR BETTER. PAVEMENT STRUCTURE RESTORATION (FRANK KENNEY ROAD) SHALL BE PER CITY OF OTTAWA STANDARDS. THE THICKNESS OF GRANULAR AND ASPHALT LAYERS SHALL MATCH EXISTING.
- CONTRACTOR RESPONSIBLE FOR VERIFYING THAT THE SITE BENCHMARK(S) HAVE NOT BEEN ALTERED OR DISTURBED AND THAT THEIR RELATIVE ELEVATION(S) AND DESCRIPTION(S) AGREE WITH THE INFORMATION DEPICTED ON THE PLAN.
- CONTRACTOR TO MATCH EXISTING ELEVATIONS AT PROPERTY LIMITS AND ENSURE POSITIVE DRAINAGE TOWARDS A SUITABLE OUTLET, WHETHER INDICATED OR NOT ON THE PLANS.
- CONTRACTOR TO PROVIDE ALL PAVEMENT MARKINGS AS SHOWN, INCLUDING HANDICAPPED PARKING SYMBOLS.
- ALL GROUNDWATER PUMPED FROM THE SITE TO BE METERED AND A PERMIT TO TAKE WATER OBTAINED AS APPLICABLE.
- PAVEMENT DESIGN TO BE PER THE SITE'S GEOTECHNICAL INVESTIGATION REPORT (SEPT. 2022), PREPARED BY GOLDER ASSOCIATES LTD. (21493887):
 LIGHT-DUTY PAVEMENT STRUCTURE (CAR PARKING AREAS):
 50 MM - H.L. 3 SURFACE COURSE OR 12.5 SUPERPAVE
 150 MM - BASE - OPSS GRANULAR A
 450 MM - SUBBASE - OPSS GRANULAR B TYPE II
 HEAVY-DUTY PAVEMENT STRUCTURE (ACCESS LANES AND PAVED TRUCK TRAFFIC AREAS):
 40 MM - H.L. 3 SURFACE COURSE OR 12.5 SUPERPAVE
 50 MM - H.L. 8 BINDER COURSE OR 19.0 SUPERPAVE
 150 MM BASE - OPSS GRANULAR A
 450 MM SUBBASE - OPSS GRANULAR B TYPE II
 GRANULAR TRAFFIC AREAS (UNPAVED ACCESS LANES AND TRUCK TRAFFIC AREAS):
 250 MM BASE - OPSS GRANULAR A
 450 MM SUBBASE - OPSS GRANULAR B TYPE II
- CONTRACTOR TO ENSURE ALL PROPOSED PAVEMENT AREAS ARE PREPARED PER THE SITE'S GEOTECHNICAL INVESTIGATION RECOMMENDATIONS AND ALL TOPSOIL AND OTHER UNSUITABLE FILL (FILLS CONTAINING ORGANIC MATTER) ARE EXCAVATED FROM THESE SURFACES.
- CONTRACTOR TO ENSURE PROPOSED PAVEMENT AREAS SUBGRADE HAS BEEN ACCEPTABLY PREPARED, WHERE THE TRENCH BACKFILL AND GRADE RAISE FILL HAVE BEEN ADEQUATELY COMPACTED TO THE REQUIRED DENSITY AND THE SUBGRADE SURFACE NOT DISTURBED BY CONSTRUCTION OPERATIONS OR PRECIPITATION. DEPENDING ON THE ACTUAL CONDITIONS OF THE PAVEMENT SUBGRADE AT THE TIME OF CONSTRUCTION, IT MAY BE NECESSARY TO INCREASE THE THICKNESS OF THE SUBBASE AND/OR TO PLACE A WOVEN GEOTEXTILE BENEATH THE GRANULAR MATERIALS.
- CONTRACTOR TO ENSURE GRANULAR BASE AND SUBBASE MATERIALS ARE UNIFORMLY COMPACTED TO AT LEAST 100% OF THE MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY USING SUITABLE VIBRATORY COMPACTION EQUIPMENT. THE ASPHALTIC CONCRETE IS TO BE COMPACTED PER TABLE 9 OF OPSS 310.
- REQUIREMENT FOR ADDITIONAL GRANULAR 'B' AND/OR GEOTEXTILE TO BE CONFIRMED ON-SITE BY GEOTECHNICAL ENGINEER
- CURBS TO BE BARRIER TYPE PER CITY OF OTTAWA STANDARD SC1.1.
- THE EXISTING ON-SITE MODULAR OFFICE AND ASSOCIATED SERVICES (WELL, SEPTIC TANK, ETC.) TO REMAIN IN SERVICE UNTIL THE PROPOSED OFFICE IS COMPLETED. ONCE THE NEW OFFICE IS OPERATIONAL, THE CONTRACTOR SHALL COORDINATE THE MODULAR REMOVAL AND COMPLETE THE REMAINING PROPOSED WORKS (FENCE, LANDSCAPE, ETC.).
- CONTRACTOR RESPONSIBLE TO DEVELOP DEMOLITION AND TEMPORARY SERVICING STAGING PLAN FOR APPROVAL BY HONI PRIOR TO CONTRUCTION
- LINE PAINTING SHALL BE COMPLETED IN ACCORDANCE WITH OPSS 1710.
- ASPHALT LINE PAINTING FOR THE PARKING STALLS AS PER OPSS 1716.
- FENCE TO BE IN ACCORDANCE WITH SPECIFICATION, SEE SPECIFICATIONS UNDER SEPARATE COVER FOR DETAILS.
- WHERE POSSIBLE CONTRACTOR TO RE-USE EXISTING ON SITE JERSEY BARRIER
- PROPOSE CONCRETE BARRIERS PER OPSS 911.14
- CONCRETE WALKWAY TO BE INSTALLED IN ACCORDANCE WITH OPSS 351.
- CONCRETE CURB SHALL BE INSTALLED IN ACCORDANCE WITH OPSS 353.
- SUBDRAINS SHALL BE COMPLETE WITH FILTER SOCK AND INSTALLED AS PER OPSS 405.
- CULVERTS SHALL BE INSTALLED IN ACCORDANCE WITH OPSS 421.



CDS PMSU2015-5-C DESIGN NOTES

THE STANDARD CDS PMSU2015-5-C CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE AVAILABLE AND ARE LISTED BELOW. SOME CONFIGURATIONS MAY BE COMBINED TO SUIT SITE REQUIREMENTS.

CONFIGURATION DESCRIPTION	
GRATED INLET ONLY (NO INLET PIPE)	
GRATED INLET WITH INLET PIPE OR PIPES	
CURB INLET ONLY (NO INLET PIPE)	
CURB INLET WITH INLET PIPE OR PIPES	
CUSTOMIZABLE SUMP DEPTH AVAILABLE	
ANTI-FLOTATION DESIGN AVAILABLE UPON REQUEST	

SITE SPECIFIC DATA REQUIREMENTS	
STRUCTURE ID	
WATER QUALITY FLOW RATE (QPS OR L/s)	
PEAK FLOW RATE (QPS OR L/s)	
RETURN PERIOD OF PEAK FLOW (YRS)	
SCREEN APERTURE (2000 OR 4700)	
PIPE DATA	
INLET PIPE 1	SIZE MATERIAL DIAMETER
INLET PIPE 2	
OUTLET PIPE	
FIN ELEVATION	
ANTI-FLOTATION BALLAST	WIDTH HEIGHT
NOTES/SPECIAL REQUIREMENTS:	
* PER ENGINEER OF RECORD	

GENERAL NOTES

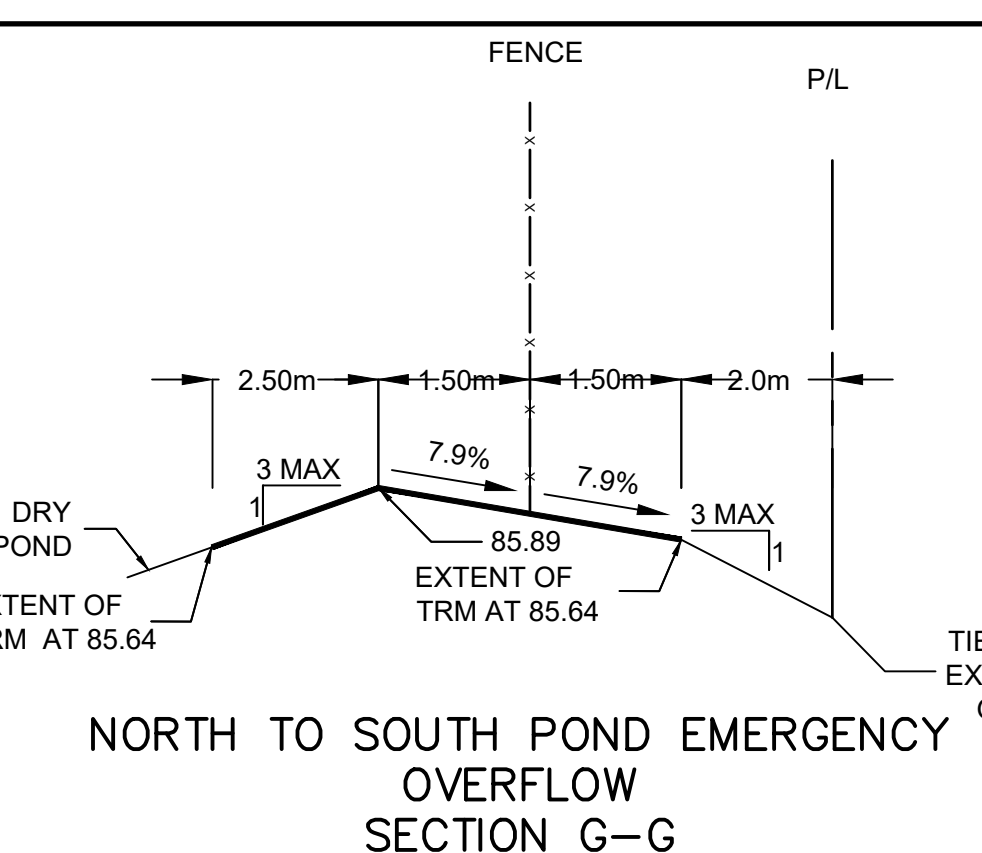
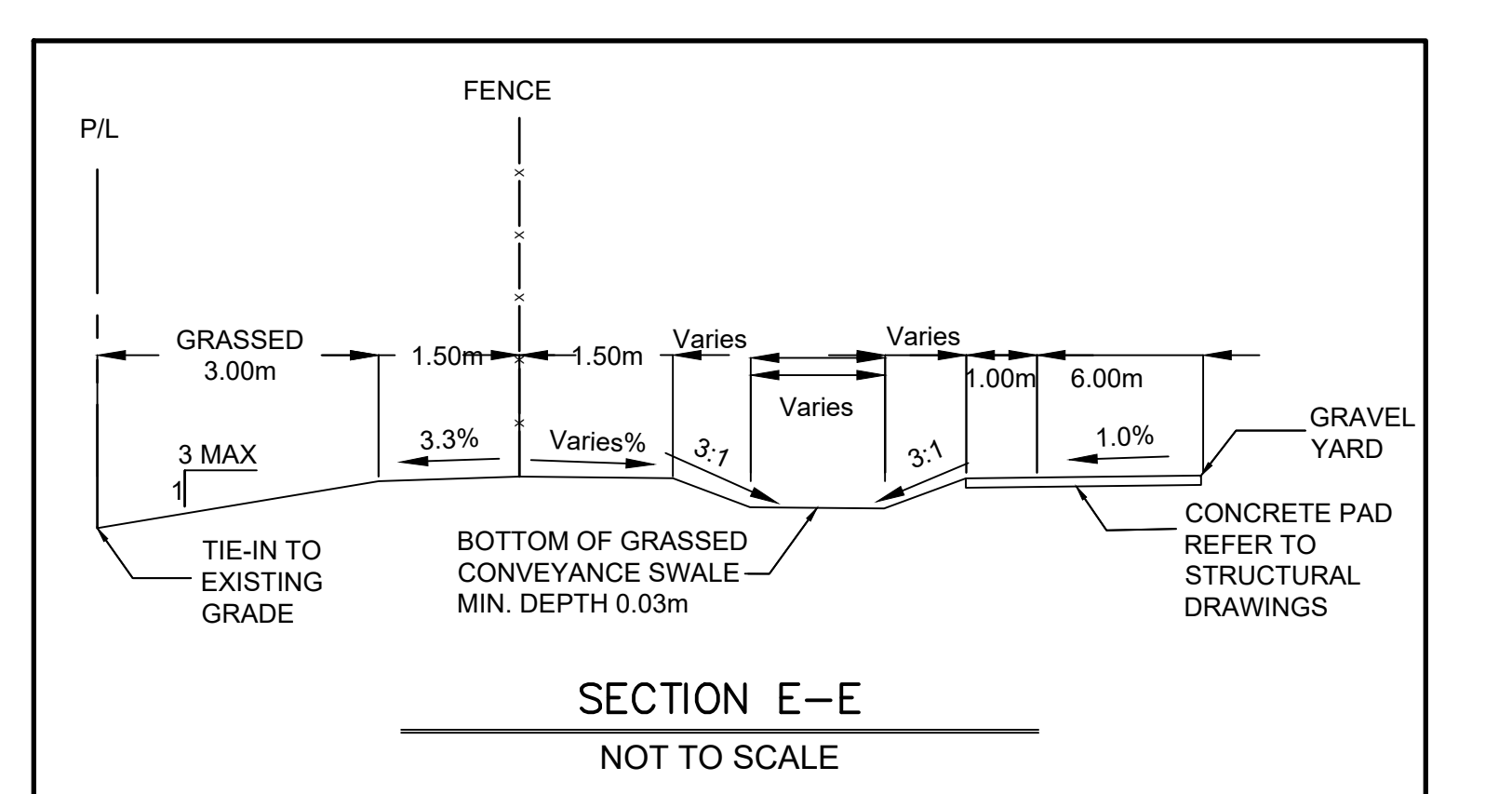
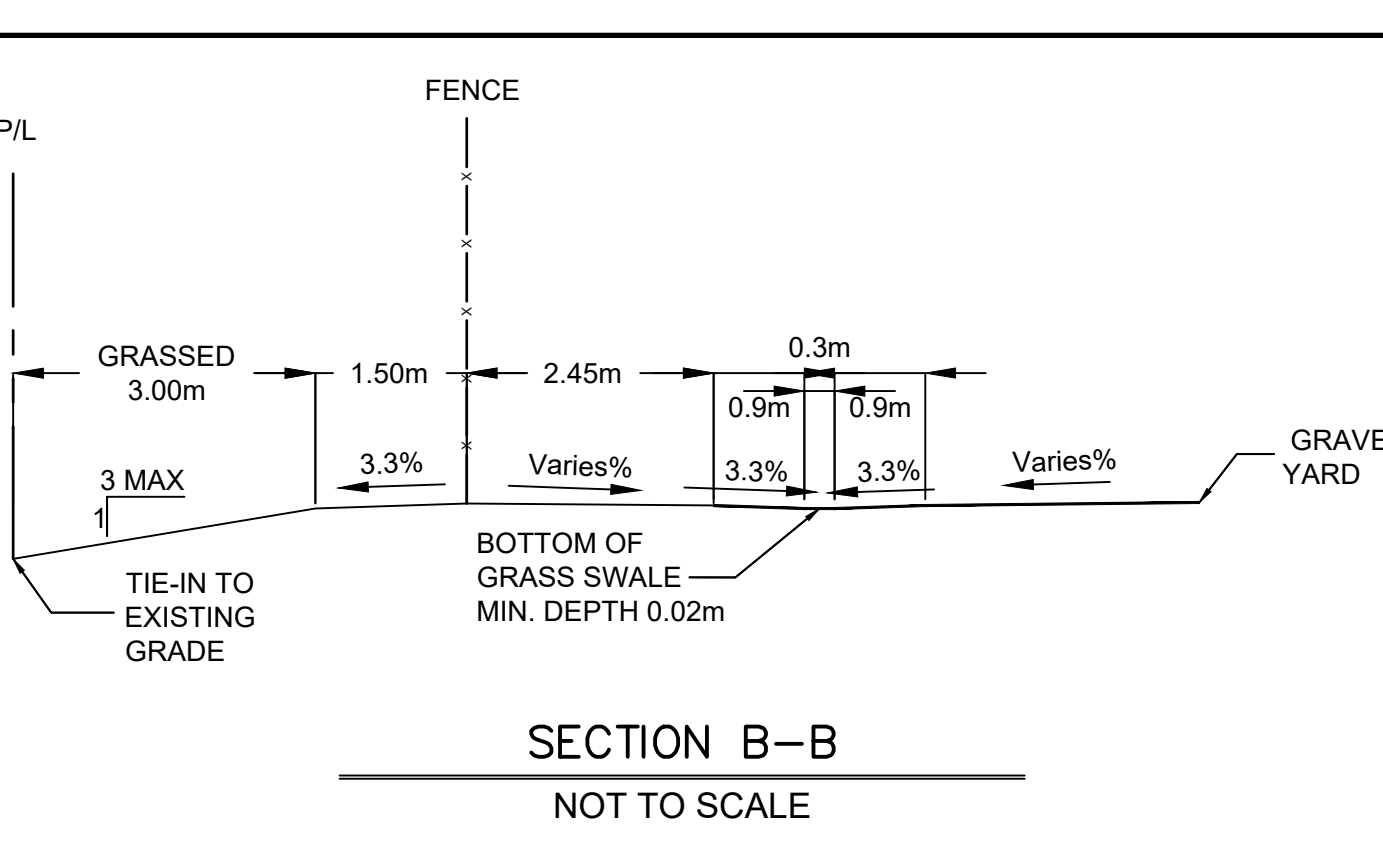
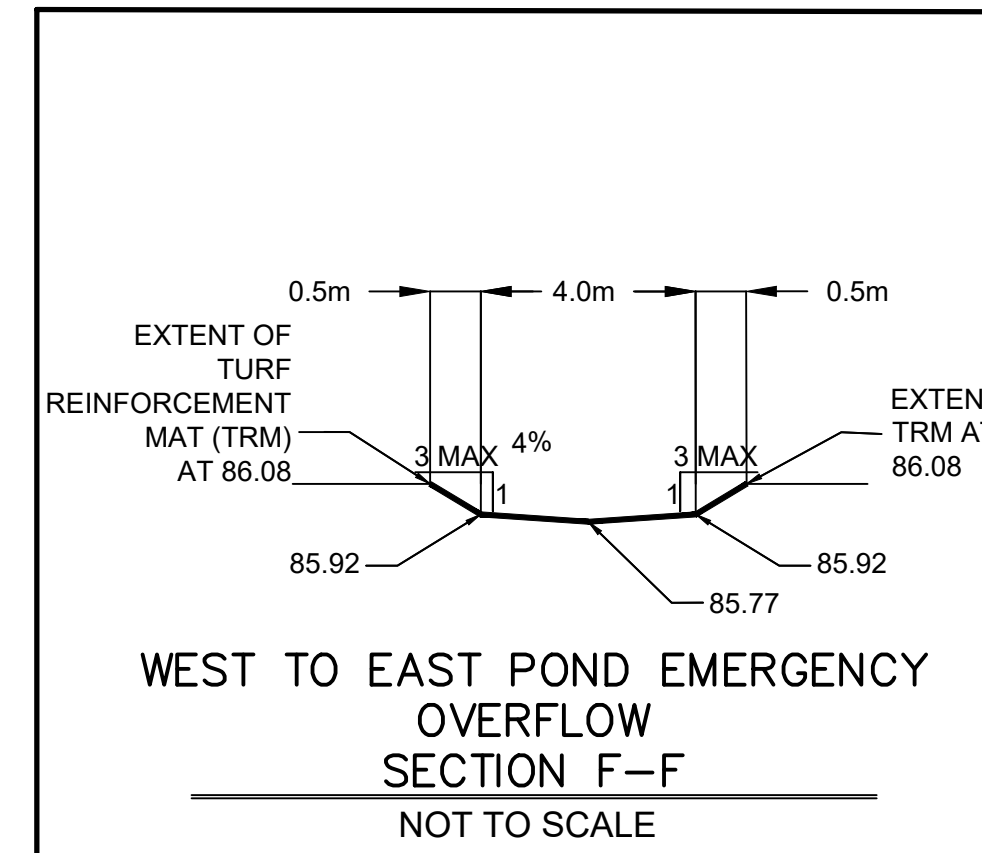
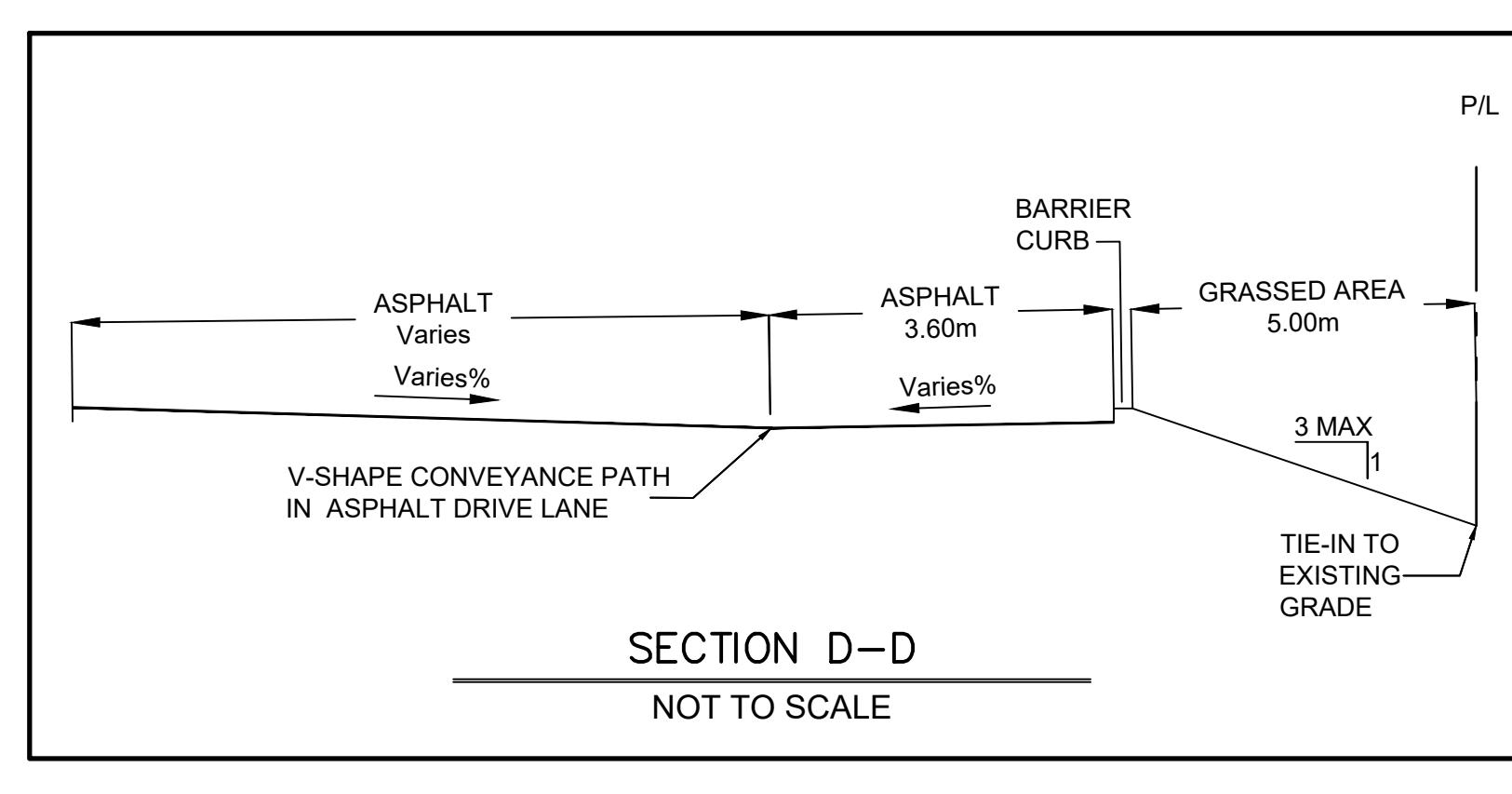
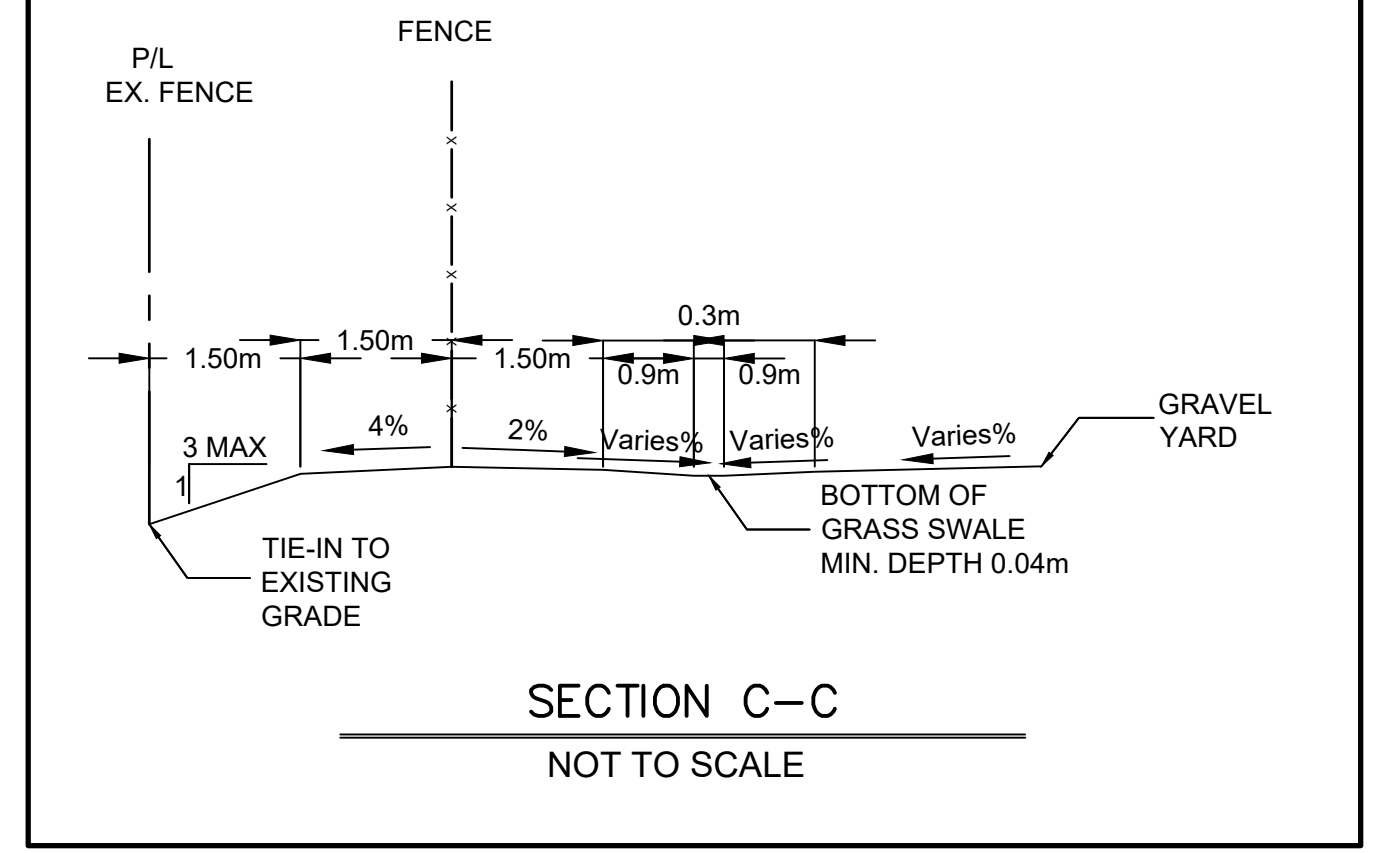
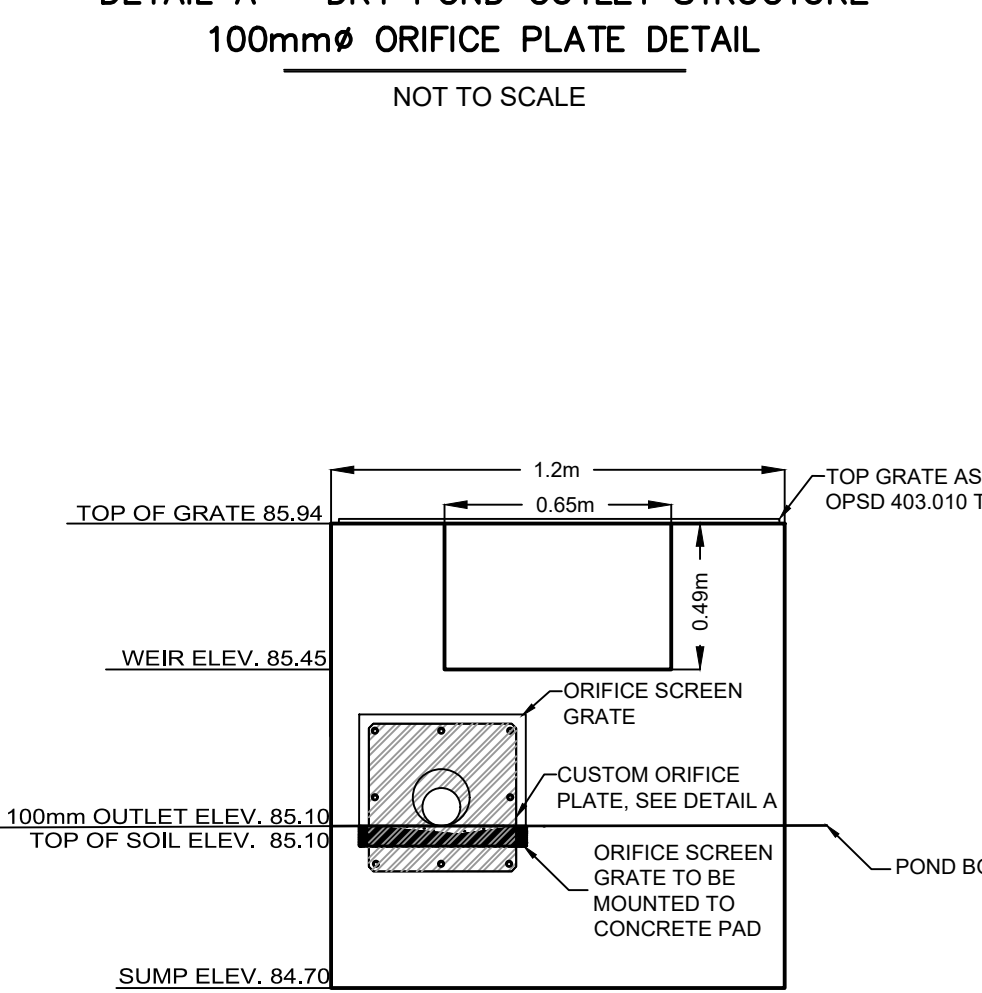
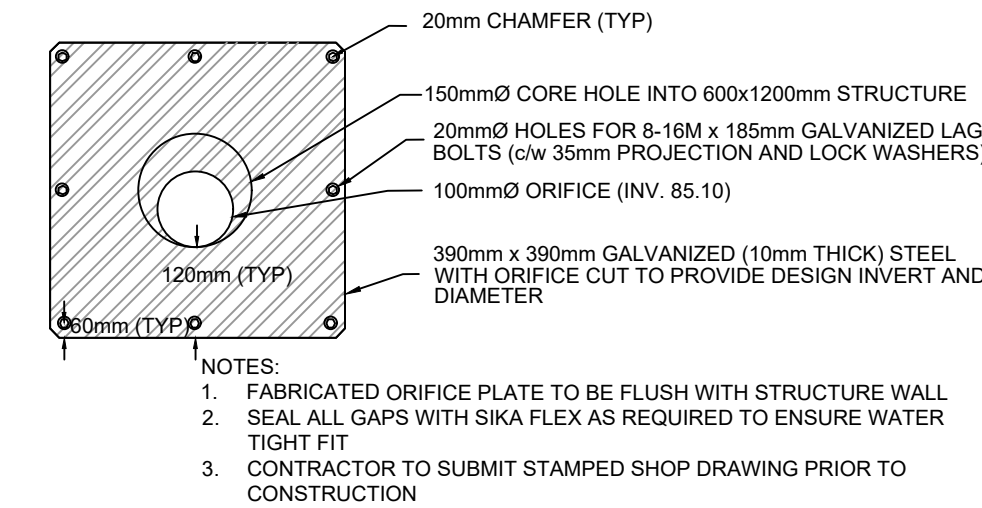
- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
- DIMENSIONS MARKED WITH (1) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
- FOR FABRICATION DRAWINGS WITH FACTUAL STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE: www.contech-engineered.com
- CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
- STRUCTURE SHALL MEET ALL DESIGN AND CONSTRUCTION REQUIREMENTS. ALL STRUCTURE SHALL BE INSTALLED TO THE FINISHED GRADE ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION.
- PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.

INSTALLATION NOTES

- ANY SUBGRADE BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
- CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE (LIFTING CLUTCHES PROVIDED).
- CONTRACTOR TO ADD JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS, AND ASSEMBLE STRUCTURE.
- CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
- CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

CONTECH ENGINEERED SOLUTIONS LLC
 www.contech-engineered.com
 3025 Centre Pointe Dr. Suite 400, West Chester, OH 45390
 800-226-1122 513-442-7002 513-442-7893 FAX

CDS PMSU2015-5-C
 INLINE CDS
 STANDARD DETAIL



APPROVED
 By Adam Brown at 3:06 pm, Jul 25, 2023

Adam Brown
ADAM BROWN
 MANAGER, DEVELOPMENT REVIEW - RURAL
 PLANNING, REAL ESTATE & ECONOMIC DEVELOPMENT
 DEPARTMENT, CITY OF OTTAWA

No.	ISSUE / REVISION	DDMMYY
06	CITY OFS COMMENTS	08/06/23
05	RE-ISSUED FOR CITY SITE PLAN APPROVAL	11/05/23
04	CITY SITE PLAN APPROVAL	17/03/23
03	ISSUED FOR CITY SITE PLAN APPROVAL	21/12/22
02	RE-ISSUED FOR CITY SITE PLAN APPROVAL	12/09/22
01	ISSUED FOR CITY SITE PLAN APPROVAL	06/04/22
00	ISSUED FOR CLIENT REVIEW	04/04/22

THESE DRAWINGS HAVE BEEN PRODUCED BY J.L. RICHARDS & ASSOCIATES LIMITED AND ARE SUBJECT TO COPYRIGHT AND USE RESTRICTIONS SET OUT IN THE APPLICABLE PROJECT CONTRACT. ANY USE, REUSE, OR MODIFICATION OF THESE DRAWINGS FOR PURPOSES OTHER THAN THE ORIGINAL PROJECT OR EXECUTION OF THE DESCRIBED WORK IS NOT PERMITTED OR ENDORSED WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF J.L.R. J.L.R. MAKES NO WARRANTIES, EITHER EXPRESS OR IMPLIED, OF THE SUITABILITY OR FITNESS OF THESE DRAWINGS FOR ANY OTHER PURPOSE, AND ANY PARTY WHICH CHOOSES TO USE, MODIFY, OR OTHERWISE RELY ON THESE DRAWINGS WITHOUT J.L.R.'S AUTHORIZATION ACCEPTS THESE LIMITATIONS AND DOES SO AT THEIR SOLE RISK AND WITHOUT LIABILITY TO J.L.R.

VERIFY SHEET SIZE AND SCALES. THE BAR TO THE RIGHT IS 25mm IF THIS IS A FULL SIZE DRAWING. 0 25mm

CLIENT:

CONSULTANT:
 J.L. Richards
 ENGINEERS - ARCHITECTS - PLANNERS

www.jrichards.ca

CONSULTANT:
 PROJECT NORTH

PROJECT:
HYDRO ONE OPERATIONS CENTRE, ORLEANS

3440 FRANK KENNY ROAD
 DRAWING:
DETAILS 1

DESIGN: M.D.
 DRAWN: G.C.
 CHECKED: D.U.
 JLR #: 31500-000
C-006

File Location: P:\131000\1500-000 - HONI Orleans OPD\3-Production1-Civil\31500-000-C-DETAILS.dwg

CITY PLAN No. 18971 CITY FILE No. D07-12-22-0057