

REFERENCES

MASSACHUSETTS DEPARTMENT OF CONSERVATION AND RECREATION

PLAN #27982 V.T.
 PLAN #30910 V.T.
 PLAN #32686 V.T.
 PLAN #34457 V.T.
 PLAN #36532 V.T.

FELDMAN PROJECT ID:
 14788
 15952
 16007

NOTES:

- BENCH MARK INFORMATION:
 BENCH MARK USED:
 ELEVATIONS WERE OBTAINED BY GPS OBSERVATIONS ON SEPTEMBER 27, 2024.
 TEMPORARY BENCH MARKS SET:
 TBM-1: CHISELED SQUARE ON LIGHT POLE BASE LOCATED AT THE NORTHEAST CORNER OF THE REAR PARKING LOT, AS SHOWN HEREON. ELEVATION = 227.04
 TBM-2: CHISELED SQUARE ON LIGHT POLE BASE LOCATED AT THE NORTHWEST CORNER OF THE REAR PARKING LOT, AS SHOWN HEREON. ELEVATION = 227.28
- ELEVATIONS REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
- CONTOUR INTERVAL EQUALS ONE (1) FOOT.
- BY GRAPHIC PLOTTING ONLY, THE PARCEL SHOWN HEREON LIES WITHIN A ZONE "X" (UNSHADED), AN AREA OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOOD, AS SHOWN ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY (F.E.M.A.) FLOOD INSURANCE RATE MAP (F.I.R.M.) FOR MIDDLESEX COUNTY, MASSACHUSETTS, MAP NUMBER 25017C0558E, CITY OF NEWTON, HAVING AN EFFECTIVE DATE OF JUNE 4, 2010.
- UTILITY INFORMATION SHOWN IS BASED ON BOTH A FIELD SURVEY AND PLANS OF RECORD. THE LOCATIONS OF UNDERGROUND PIPES AND CONDUITS HAVE BEEN DETERMINED FROM THE AFORESAID RECORD PLANS AND ARE APPROXIMATE ONLY. WE CANNOT ASSUME RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES THAT ARE OMITTED OR INACURATELY SHOWN ON SAID RECORD PLANS, SINCE SUBSURFACE UTILITIES CANNOT BE VISIBLY VERIFIED. BEFORE PLANNING FUTURE CONNECTIONS, THE PROPER UTILITY ENGINEERING DEPARTMENT SHOULD BE CONSULTED AND THE ACTUAL LOCATION OF SUBSURFACE STRUCTURES SHOULD BE DETERMINED IN THE FIELD. CALL TOLL FREE, THE DIG SAFE CALL CENTER AT 1-888-344-7233 SEVENTY-TWO HOURS PRIOR TO EXCAVATION.
- WETLAND LOCATIONS AS SHOWN HEREON WERE DELINEATED BY SOUTH RIVER ENVIRONMENTAL IN AUGUST 2024, AND FIELD LOCATED BY FELDMAN GEOSPATIAL IN SEPTEMBER, 2024.
- THIS PLAN WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND IS SUBJECT TO ANY FINDINGS SUCH A REPORT MIGHT DISCLOSE.
- REPAVING PHASES REFERENCE SKETCH ENTITLED "300 HPP REPAVING PHASE MAP" PROVIDED BY THE CLIENT ON OCTOBER 21, 2024.
- ALL CATCH BASINS WILL BE CLEANED YEARLY. MATERIAL REMOVED FROM CATCH BASINS WILL BE DISPOSED OFF SITE OR OUTSIDE OF ANY 100' BUFFER ZONES.
- PROPOSED EROSION CONTROL TO EXTEND THROUGH THE ENTIRETY OF THE 100' BUFFER.
- THIS DOCUMENT IS AN INSTRUMENT OF SERVICE OF FELDMAN GEOSPATIAL ISSUED TO OUR CLIENT FOR PURPOSES RELATED DIRECTLY AND SOLELY TO FELDMAN GEOSPATIAL'S SCOPE OF SERVICES UNDER CONTRACT TO OUR CLIENT FOR THIS PROJECT. ANY USE OR REUSE OF THIS DOCUMENT FOR ANY REASON BY ANY PARTY FOR PURPOSES UNRELATED DIRECTLY AND SOLELY TO SAID CONTRACT SHALL BE AT THE USER'S SOLE AND EXCLUSIVE RISK AND LIABILITY, INCLUDING LIABILITY FOR VIOLATION OF COPYRIGHT LAWS, UNLESS WRITTEN CONSENT IS PROVIDED BY FELDMAN GEOSPATIAL.

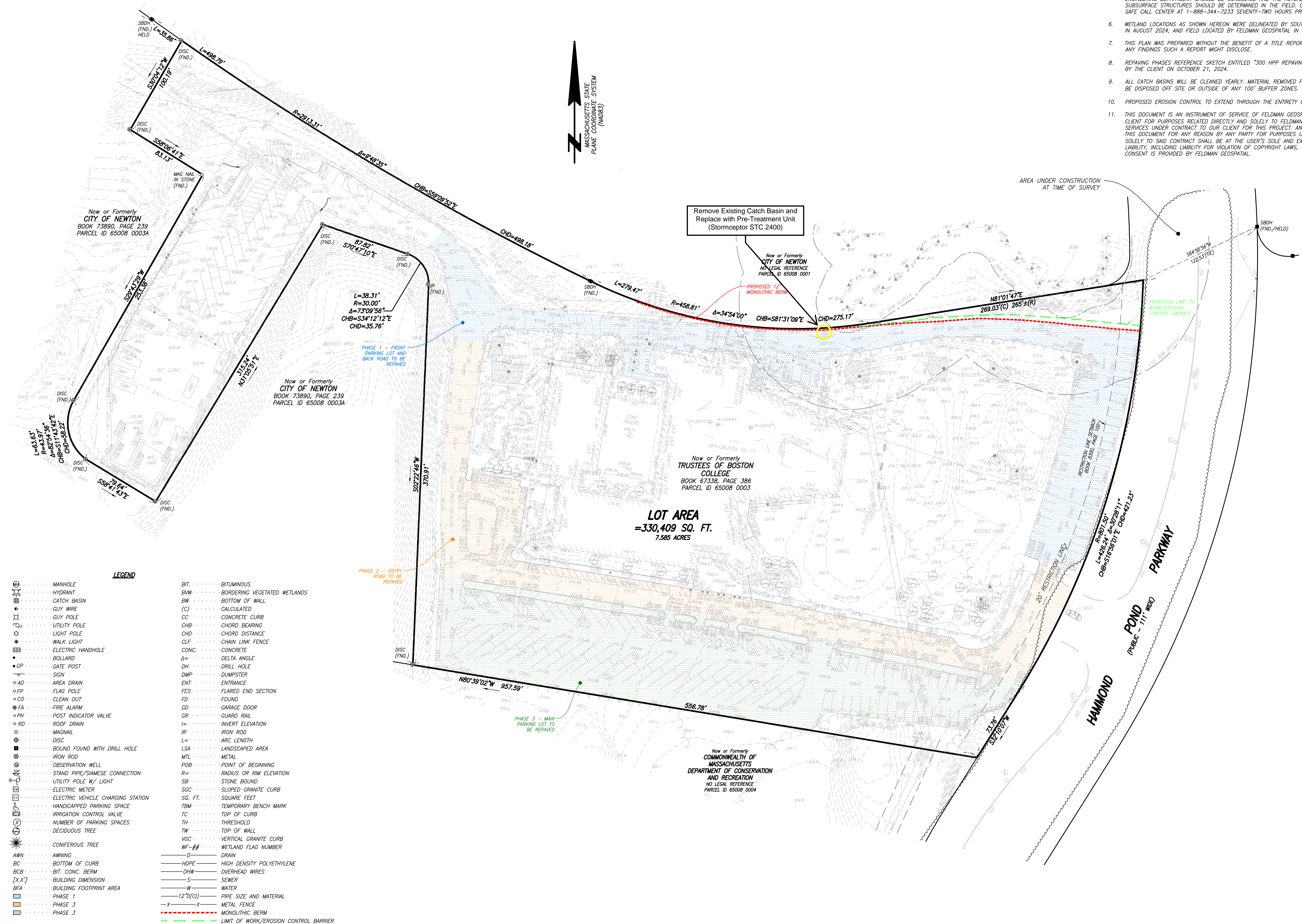
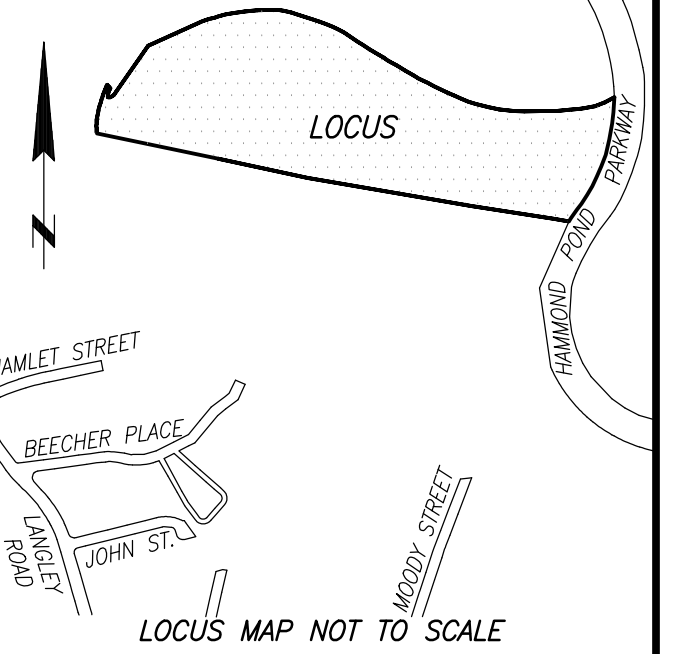
BOSTON HEADQUARTERS
 152 HAMPDEN STREET
 BOSTON, MA 02119

WORCESTER OFFICE
 27 MECHANIC STREET
 WORCESTER, MA 01608

(617)357-9740

www.feldmangeo.com

Right: From the Ground Up



LEGEND

<ul style="list-style-type: none"> MANHOLE HYDRANT CATCH BASIN GUY WIRE GUY POLE UTILITY POLE LIGHT POLE WALK LIGHT ELECTRIC HANDHOLE BOLLARD GATE POST SIGN AREA DRAIN FLAG POLE CLEAN OUT FIRE ALARM POST INDICATOR VALVE ROOF DRAIN MAGNAIL DISC BOUND FOUND WITH DRILL HOLE IRON ROD OBSERVATION WELL STAND PIPE/SIAMESE CONNECTION UTILITY POLE W/ LIGHT ELECTRIC METER ELECTRIC VEHICLE CHARGING STATION HANDICAPPED PARKING SPACE IRRIGATION CONTROL VALVE NUMBER OF PARKING SPACES DECIDUOUS TREE CONIFEROUS TREE AWNING BOTTOM OF CURB BIT. CONC. BERM [X.X'] BUILDING DIMENSION BFA BUILDING FOOTPRINT AREA PHASE 1 PHASE 2 PHASE 3 	<ul style="list-style-type: none"> BIT. BITUMINOUS BWV BORDERING VEGETATED WETLANDS BW BOTTOM OF WALL (C) CALCULATED CC CONCRETE CURB CHB CHORD BEARING CHD CHORD DISTANCE CLF CHAIN LINK FENCE CONC. CONCRETE Δ DELTA ANGLE DH DRILL HOLE DMP DUMPSTER ENT ENTRANCE FES FLARED END SECTION FD FOUND GD GARAGE DOOR GR GUARD RAIL IN INVERT ELEVATION IR IRON ROD L ARC LENGTH LSA LANDSCAPED AREA MTL METAL POB POINT OF BEGINNING R RADIUS OR RIM ELEVATION SB STONE BOUND SOC SLOPED GRANITE CURB SQ. FT. SQUARE FEET TBM TEMPORARY BENCH MARK TC TOP OF CURB TH THRESHOLD TW TOP OF WALL VGC VERTICAL GRANITE CURB WF-## WETLAND FLAG NUMBER D DRAIN HDPE HIGH DENSITY POLYETHYLENE OHV OVERHEAD WIRES S SEWER W WATER 12"(C) PIPE SIZE AND MATERIAL X METAL FENCE MONOLITHIC BERM LIMIT OF WORK/EROSION CONTROL BARRIER
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I CERTIFY THAT THIS PLAN IS BASED ON AN ACTUAL FIELD SURVEY AND THE LATEST PLANS AND DEEDS OF RECORD.

Joseph R. Zambuto
 JOSEPH R. ZAMBUTO, PLS
 (M44 52783) DATE 3/14/2025
 JZAMBUTO@FELDMANGEO.COM



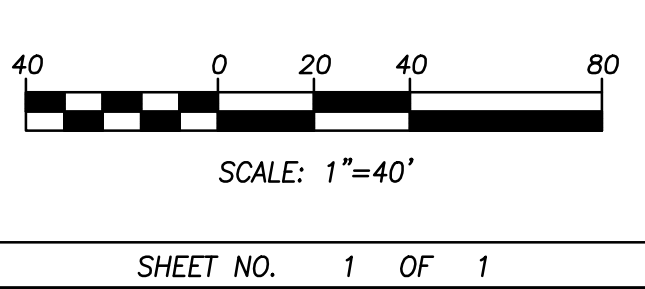
DRAWING NAME:
PLAN SHOWING PROPOSED IMPROVEMENTS
 300 HAMMOND POND PARKWAY
 NEWTON, MASS.

DATE: SEPTEMBER 27, 2024

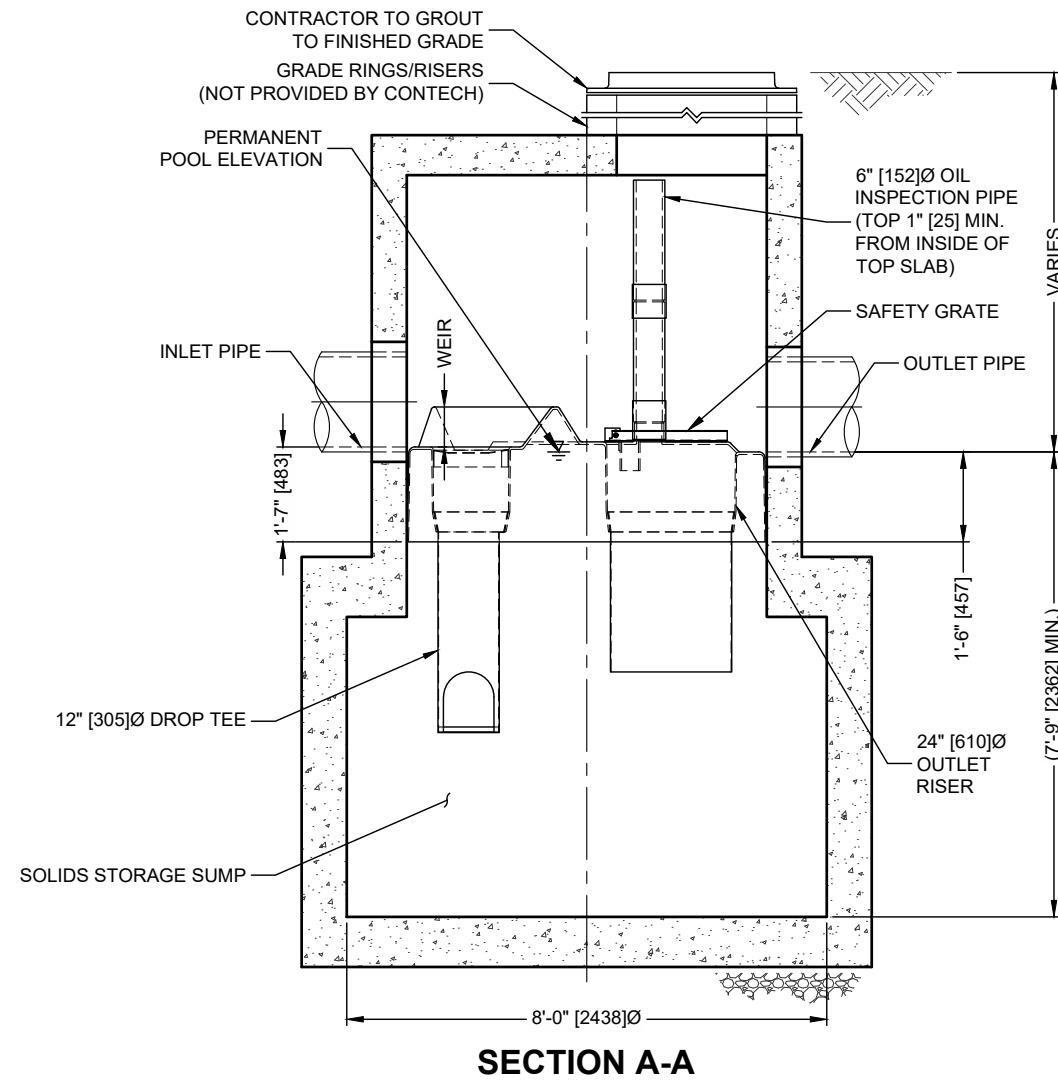
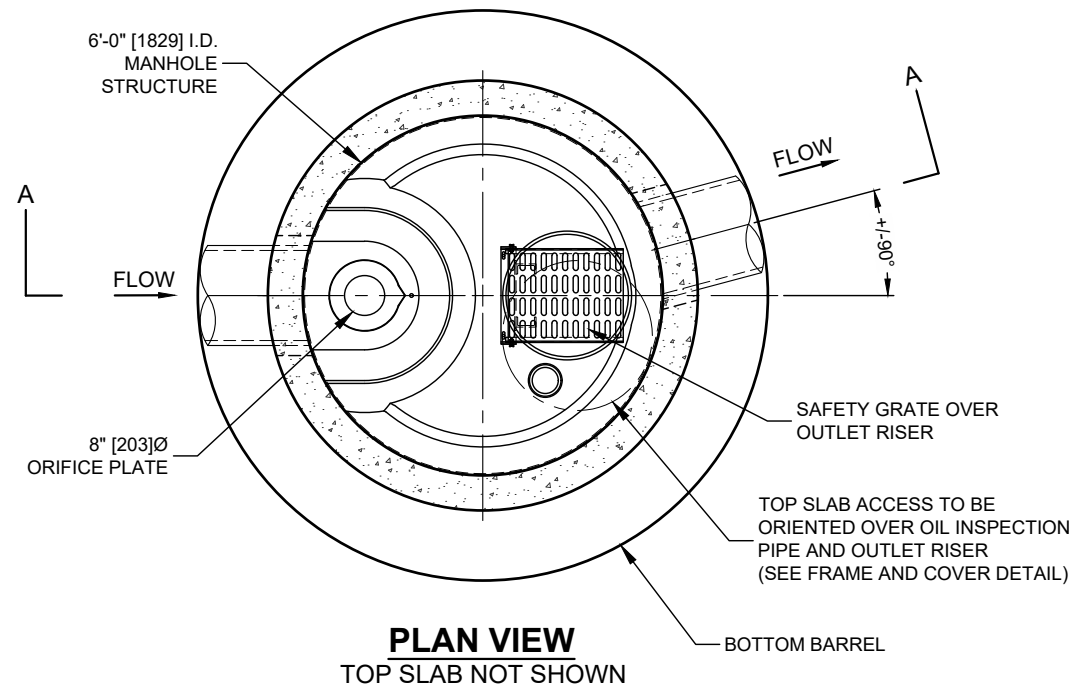
REVISIONS:	DATE	CONSERVATION	COMMISSION	COMMENTS
3/14/2025				

FILENAME: 2401093-DSN.dwg

RESEARCH: AJA	FIELD CHIEF: CL
PROJ MGR: JRZ	APPROVED: JRZ
CALC: AJA	CADD: CKB
FIELD CHK: JRZ	CRD FILE: 2401093-EC



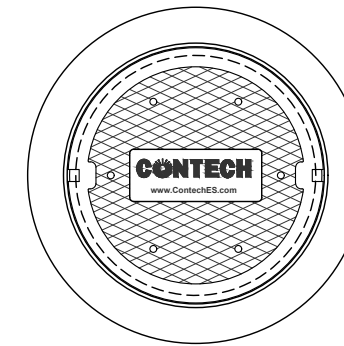
I:\COMMON\CAD\TREATMENT\23 STORMCEPTOR\40 STANDARD DRAWINGS\IN PROCESS\STC2400-DTL.DWG 2/1/2019 3:52 PM



Stormceptor
FOR PATENT INFORMATION, GO TO www.contechES.com/IP

STORMCEPTOR DESIGN NOTES

THE STANDARD STC2400 CONFIGURATION IS SHOWN.



FRAME AND COVER
(MAY VARY)
NOT TO SCALE

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID			
WATER QUALITY FLOW RATE (cfs [L/s])			
PEAK FLOW RATE (cfs [L/s])			
RETURN PERIOD OF PEAK FLOW (yrs)			
RIM ELEVATION			
PIPE DATA:	INVERT	MATERIAL	DIAMETER
INLET PIPE 1			
INLET PIPE 2			
OUTLET PIPE			

NOTES / SPECIAL REQUIREMENTS:

GENERAL NOTES

1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.contechES.com
3. STORMCEPTOR WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
4. STORMCEPTOR STRUCTURE SHALL MEET AASHTO HS20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 2' [610], AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.
5. STORMCEPTOR STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C478 AND AASHTO LOAD FACTOR DESIGN METHOD.
6. ALTERNATE UNITS ARE SHOWN IN MILLIMETERS [mm].

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 STORMCEPTOR MANHOLE STRUCTURE.
- C. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
- D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET AND OUTLET PIPE(S). MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CENTERLINES TO MATCH PIPE OPENING CENTERLINES.
- E. 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.contechES.com
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069
800-338-1122 513-645-7000 513-645-7993 FAX

STC2400
STORMCEPTOR
STANDARD DETAIL