

Construction of New Police Station

Category: Fire and Police Stations **Project ID #:** 1004496144
Street Address: 489 Central Turnpike Sutton MA 01590 **Confirmed Value:** \$7,800,000.00
County: Worcester **Stage:** BIDDING - SUBBIDS: ASAP
Bid Date: 9/20/2017 , 02:00PM
Architect: Tecton Architects
Documents Available: Specs, Addenda available in Insight **Plans available from Andrew T. Johnson Co.**
Last Update: 9/8/2017 **Plan Addenda,Spec Addenda were Added/Updated**

Project Events

Event	Date	Details
Bid Date	9/20/2017 , 02:00PM	Submit bids to Sutton, Town of 4 Uxbridge Road Sutton, MA 01590
Filed Sub-Bid	9/20/2017 , 02:00PM	Submit bids to Sutton, Town of 4 Uxbridge Road Sutton, MA 01590
Start Date	11/20/2017	Actual Start Date

Notes

Scope Site work and new construction of a fire / police facility in Sutton, Massachusetts. Completed plans call for the construction of a fire / police facility. Re-advertisement For HVAC; Roofing; and Misc. Metals Subtrades Only. Sub Bid Category HVAC; Roofing; Misc. Metals Estimated Cost \$7,800,000 Contractor Qualification DCAMM Certificate Required for DCAMM contracts over \$150,000, Highway Division contracts over \$50,000. Contact Information Name Neil Joyce Phone 508-786-0600 Fax 508-786-0608 Email Address cms@cms-ma.com Notify email address listed when final publish date assigned. Contract Information Project Construction of New Police Station at 489 Central Turnpike, Sutton, MA

Notes Bid Date: 09/20/2017 02:00PM Submit bids to Sutton, Town of 4 Uxbridge Road Sutton, MA 01590 Filed Sub-Bid: 09/20/2017 02:00PM Submit bids to Sutton, Town of 4 Uxbridge Road Sutton, MA 01590 Development include(s): Site Work, New Construction

Additional Details

Listed On: 9/7/2017	Floor Area:
Contract Type:	Work Type: New
Stage Comments 1:	Floors Below Grade:
Stage Comments 2:	Owner Type: City
Bid Date: 9/20/2017	Mandatory Pre Bid Conference:
Invitation #:	Commence Date: 11/20/2017
Structures: 1	Completion Date:
Single Trade Project:	Site Area:
Floors:	LEED Certification Intent:
Parent Project ID: 1002108383	Units:
Parking Spaces:	

Project Participants

Company Role	Company Name	Contact Name	Address	Phone	Email	Fax
Owner	Town of Sutton		4 Uxbridge Road , Sutton, MA 01590	(508) 865-8725		(508) 865-8721
Plans Representative	Andrew T. Johnson Co.		15 Tremont Pl. , Boston, MA 02108	(617) 742-1610		(617) 523-0719
Architect	Tecton Architects	Matt Salad	One Hartford Square West 146 Wyllys Street, Hartford, CT 06106	(860) 548-0802		(860) 548-0800

Bidders

Company Name	Contact Name	Added Date	Address	Phone	Email	Bidding Role	Bid Rank	Bid Value	Fax Number
Construction Monitoring Services. Inc.	Neil Joyce	9/7/2017	270 Main St. , Marlborough, MA 01752	(508) 786-0600	neil@cms-ma.com	Prospective Bidder - General			(508) 786-0608

Planholders

Company Name	Contact Name	Address	Phone	Email	Fax
Chapman Waterproofing Company		395 Columbia Rd PO Box 255300, Boston, MA 02125	(617) 288-3000	info@chapmanwaterproofing.com	(617) 288-3005
Daigle Engineers		1 East River Place , Methuen, MA 01844	(978) 682-1748	info@daigleengineers.com	(978) 682-6421
Seaver Construction Inc.		215 Lexington St. 2nd Floor, Woburn, MA 01801	(781) 935-0130	info@seaverconstruction.com	(781) 935-0048
Castagna Construction	Abe Hafiani	69 Parker Street , Newburyport, MA 01950	(978) 465-2800	info@castagnaconstruction.com	(978) 462-0643
Brite-Lite Electrical Co		11 Front Street , Weymouth, MA 02188	(781) 340-9102		(781) 340-1674
Hutter Construction Corp.		810 Turnpike Road P.O. Box 257, New Ipswich, NH 03071	(603) 878-2300	ESTIMATING@HUTTERCONSTRUCTION.COM	(603) 878-3519
Marmelo Bros		13 Ventura Dr , North Dartmouth, MA 02747	(508) 995-6582	sandy@marmeloconstruction.com	(508) 995-6926
J.D. Rivet & Co. Inc.	Gary Brown	1635 Page Blvd , Springfield, MA 01104	(413) 543-5660	gbrown@rivetroofing.com	(413) 543-3373
Modern Glass & Aluminum Inc		42 Eastman Street PO Box 1081, Easton, MA 02334	(508) 238-0152		(508) 238-8351
Joseph Cohn & Son, Inc.		50 Devine Street , North Haven, CT 06473	(203) 772-2420		(203) 230-0340
DeLucca Fence Company Inc		5 Old Ferry Road , Methuen, MA 01844	(978) 688-2877	estimating@deluccafence.com	(978) 688-6030
Folan Waterproofing & Construction Co.		795 Washington St. , South Easton, MA 02375	(508) 238-6550	office@folanwaterproofing.com	(508) 238-9425
D.A. Sullivan and Sons		82-84 North St. , Northampton, MA 01060	(413) 584-0310	mark@dasullivan.com	(413) 585-5710
D.F. Pray Inc. - Corporate Headquarters		25 Anthony St. , Seekonk, MA 02771	(508) 336-3366	bids@dfpray.com	(508) 336-9391
Rustic Fire Protection Inc		320 West Main Street P.O. Box 1210, Norton, MA 02766	(508) 431-9938	cdubuc@rusticfireprotection.com	(508) 431-9986
Dependable Masonry		73 Concord St , North Reading, MA 01864	(978) 664-5453		(978) 664-1360
G&R Construction Inc.		253 Centre St. , Quincy, MA 02169	(781) 849-9093		(781) 849-9094
Capital Carpet & Flooring Specialists Inc.		64 Industrial Way , Wilmington, MA 01887	(781) 935-9430		(781) 935-5737
V & G Iron Works		1500 Shawsheen St. , Tewksbury, MA 01876	(978) 851-9191		(978) 851-9171
M Frank Higgins & Co. Inc.	Jeff Patenaude	780 N. Mountain Rd , Newington, CT 06111	(860) 953-6826	kcloud@mfhiggins.com	(860) 953-9420
Costa Brothers Masonry, Inc		2 Lambeth Park Dr. , Fairhaven, MA 02719	(508) 991-7634		(508) 991-7635
King Painting, Inc.		50 High St., Suite 22, North Andover, MA 01845	(978) 683-7434	cking@kingpaintinginc.com	(978) 683-7198
Cenedella Masonry Inc.	Jo Ann OBrien	19 East Walnut Street , Milford, MA 01757	(508) 473-7836		(508) 473-0380
Tower Construction Corporation		10 Southern Industrial Drive , Cranston, RI 02921	(401) 943-0110		(401) 944-4041
Greenwood Industries Inc.	Scott Robert	640 Lincoln St , Worcester, MA 01605	(508) 865-4040	srobert@greenwood-industries.com	(508) 865-1123
Concrete Systems Inc		9 Commercial St , Hudson, NH 03051	(603) 889-4163		(603) 889-0039
Greenfield Glass		52 River St. , Greenfield, MA 01301	(413) 774-5277	gglass@greenfieldglass.com	(413) 774-5523
Eagle Elevator Co. Inc	James Aufiero	176 Norfolk Avenue , Boston, MA 02119	(617) 238-0613		(617) 238-0625
DMH Electrical Contractors		29 Legate Hill Rd. , Sterling, MA 01564	(978) 422-0400		(978) 422-3580
Lupachino & Salvatore		15 Northwood Dr. , Bloomfield, CT 06002	(860) 243-1751	dpyers@lupsal.com	(860) 243-1756
Enerav Insulation		1049 Main St. . Worcester.	(508) 752-		(508) 752-

Conservation, Inc.		MA 01603	2000		3749
United Steel, Inc.	Myer Elgart	164 School Street , East Hartford, CT 06108	(860) 289-2323		(860) 289-2908
George A. Keene Inc.		9600 County Road , Clarence Center, NY 14032	(716) 406-2091	sales@keenejailequip.com	(716) 406-2093
Seekonk heating services		911 taunton ave , Seekonk, MA 02771	(508) 336-3069		(508) 336-0883
Aalanco Service Corporation	Mike McLaughlin	80-B Turnpike Road , Westborough, MA 01581	(508) 366-1449	Mikem@aalanco.com	(508) 366-1196
Acoustek Inc		20 Ventura Dr. , North Dartmouth, MA 02747	(508) 995-9563		(508) 995-9582
M-V Electrical Contractors, Inc		10 Conduit St , Acushnet, MA 02743	(508) 995-3826		(508) 995-0151
Bello Painting Co.		585 East St. , Weymouth, MA 02189	(781) 331-5600		(781) 331-5603
Kenney Masonry		PO Box 2506 , Amherst, MA 01004	(413) 256-0400	iosh@kenneymasonry.com	(413) 825-5557
Delta Beckwith Elevator	Allison Lasko	115 Shawmut Road , Canton, MA 02021	(781) 332-3800		(781) 332-3803
Dandis Contracting Inc	Liz Marmanides	1020 Turnpike Street, Unit 12, Canton, MA 02021	(781) 828-9313	imarmanides@dandiscoutracting.com	(781) 828-9314
O'Byrne Painting & Contracting Inc		21 Old Farm Road , Wayland, MA 01778	(617) 699-5548	info@obyrnepainting.com	
CTA Construction Co. Inc.	Mike Martin	400 Totten Pond Rd Suite 2nd Floor, Waltham, MA 02451	(781) 786-6600	estimating@ctaconstruction.com	(781) 786-6670
The Cheviot Corporation		55 Fourth Avenue , Needham Hgts, MA 02494	(781) 449-1100	info@cheviotcorp.com	(781) 449-1109
Powers Generator Service	Tabitha Lacroix	5 Business Center Drive , Swanzey, NH 03446	(800) 853-7202	sales@powersgenerator.com	(603) 352-9339
Yankee Sprinkler		612R Plymouth St. Ste 1, East Bridgewater, MA 02333	(508) 378-7212	mpayton@yssc-fire.com	(508) 378-7215
Dynamic Insulation Inc		9 Fillmore St , Beverly, MA 01915	(978) 927-4480		(978) 927-4475
Superior Caulking & Waterproofing Co., Inc		1154 Park Street Suit 1, Palmer, MA 01069	(413) 289-0100	annette@scwi.net	(413) 289-0022
KMK Insulation		1907 Hartford Turnpike , North Haven, CT 06473	(203) 234-6223	cpuglisi@kmsinsulation.com	(203) 234-7987
Tim's Fabricators, Inc	Jacqui Harris	87 Putnam St , Fitchburg, MA 01420	(978) 345-0599	jharris@timsfab.com	(978) 348-1635
Elevator Maintenance & Service, Inc.	Paul Hale	163 Washington St, Ste 1, Worcester, MA 01610	(508) 756-7439		
Comley Excavating	Jacob Muetterties	25 Mohawk Dr , Leominster, MA 01453	(978) 466-3804		
Southern Tier Insulation		10 Kids Lane , Castleton, NY 12033	(518) 766-9360		(518) 766-9365
Industrial Mechanical Insulation Corp		116 Villa Rd , South Hamilton, MA 01982	(413) 527-7933		
Tunstall Corporation		118 Exchange Street , Chicopee, MA 01013	(413) 594-8695		(413) 598-8109
Veterans Development Corporation, Inc.		144 Lincoln Street , Norwell, MA 02061	(781) 659-4050		(781) 659-0505
MILHARMER Associates, Inc.		534 New State Highway Suite 3, Raynham, MA 02767	(508) 823-8500	merlo@milharmer.com	(508) 823-8600
Iron Construction Group, Llc		875 Centerville Rd Bldg 4 Unit 11 , Warwick, RI 02886	(401) 490-3144	swd@icgri.com	(401) 490-3145
Renauld Electric and Communications		PO Box 36 , Sutton, MA 01590	(508) 865-1300		
Novia Associates Inc		1 Northwestern Dr. , Salem, NH 03079	(603) 898-8600	sales@cp-novia.com	(603) 898-2755

Contracts

Classification	Conditions	Bonding	Bid Date	Bids To	Bid Type
General Contractor			9/20/2017	Owner	Open Bidding

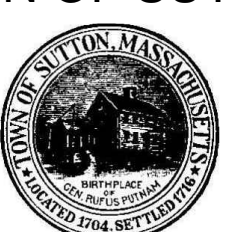
History

User	Viewed	First Viewed Date	Currently Tracked?	Date Tracked
Adam Sweet	True	9/8/2017	False	

Notes:
 This drawing is the property of Tecton Architects | pc. The use, re-use or reproduction of this drawing for any purpose whatsoever without an expressed written agreement between Tecton Architects | pc and the user is prohibited. Rights to use the information on this sheet are not transferred until payment has been received for services rendered. Any rights so granted are non-transferable to other parties without the prior expressed written consent of Tecton Architects | pc.

© 2015 Tecton Architects | pc

Client/ Contractor
TOWN OF SUTTON



4 UXBRIDGE ROAD
 SUTTON, MA 01590

Project
SUTTON POLICE STATION

489 CENTRAL TURNPIKE, SUTTON, MA 01590

THESE PLANS AND SPECIFICATIONS COMP WITH THE TOWN OF SUTTON'S WETLAND / RIVERFRONT DISTRICT ADMINISTRATION BY

SIGNED BY: _____

PRINT NAME: _____

TOWN OF SUTTON
 PLANNING BOARD

CHAIR _____ DATE _____

PERMIT SET

JH Engineering Group LLC

JH ENGINEERING GROUP, LLC
 PO BOX 1198
 WORCESTER, MA 01613

ISSUES
 Date Description

Revisions
 No. Date Description

1. 7-24-17 REVISED PER TOWN COMMENTS

2. 8-24-17 REVISED PER PB & P&S CONSULTANT

Drawing Title
SEPTIC DESIGN

BOH FILE #

Issue Date: 06/15/2017

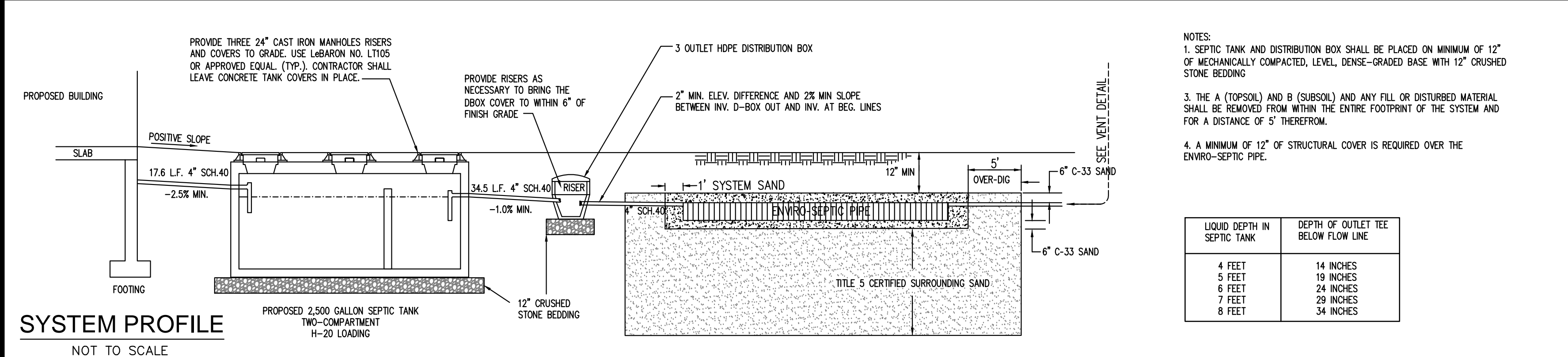
Project No: SUT019AR Scale: 1"=20'

Project Manager: JM Production Leader: JV

Project Architect: MS Peer Reviewer:

Drawing Number

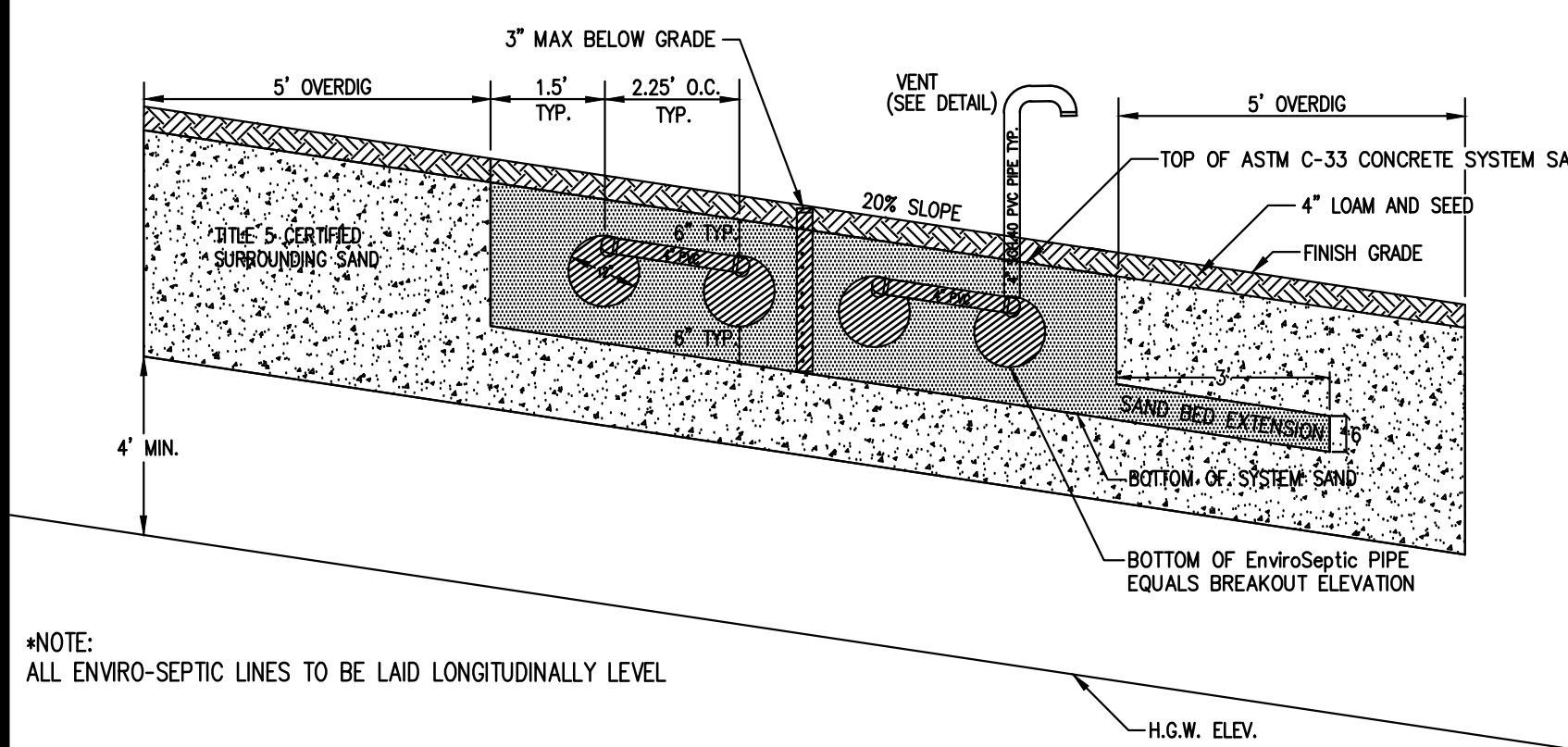
C2.3



NOTES:

- SEPTIC TANK AND DISTRIBUTION BOX SHALL BE PLACED ON MINIMUM OF 12" OF MECHANICALLY COMPACTED, LEVEL, DENSE-GRADED BASE WITH 12" CRUSHED STONE BEDDING.
- THE A (TOPSOIL) AND B (SUBSOIL) AND ANY FILL OR DISTURBED MATERIAL SHALL BE REMOVED FROM WITHIN THE ENTIRE FOOTPRINT OF THE SYSTEM AND FOR A DISTANCE OF 5' THEREFROM.
- A MINIMUM OF 12" OF STRUCTURAL COVER IS REQUIRED OVER THE ENVIRO-SEPTIC PIPE.

LIQUID DEPTH IN SEPTIC TANK	DEPTH OF OUTLET TEE BELOW FLOW LINE
4 FEET	14 INCHES
5 FEET	19 INCHES
6 FEET	24 INCHES
7 FEET	29 INCHES
8 FEET	34 INCHES

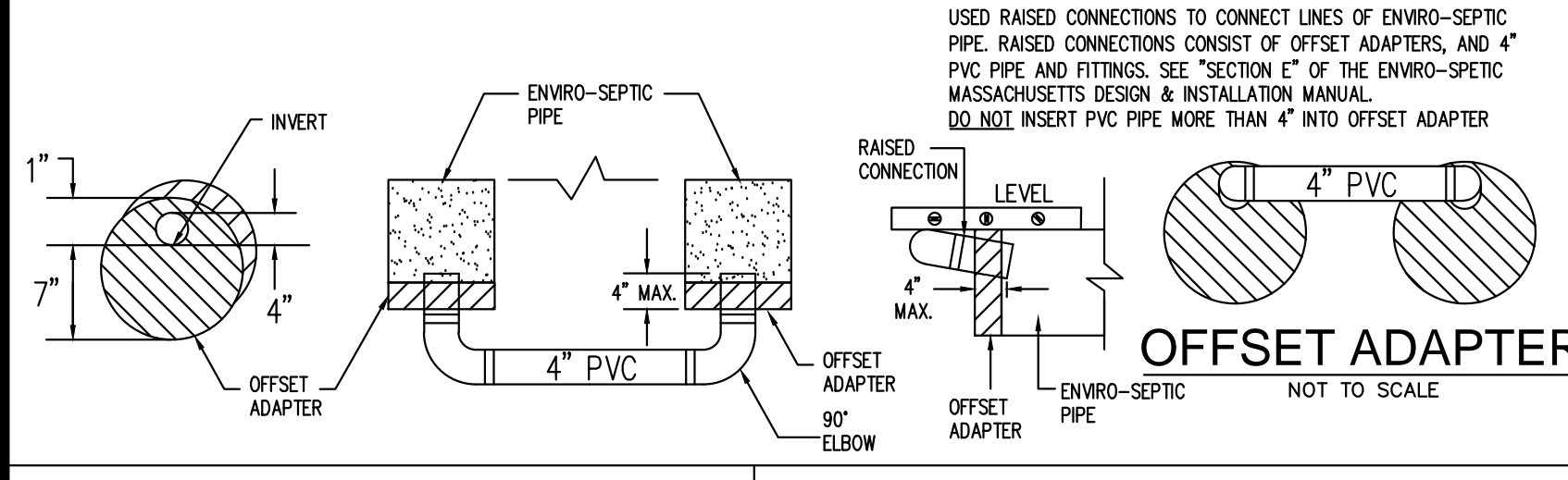


SCHEDULE OF ELEVATIONS

	LINE 1	LINE 2	LINE 3	LINE 4	LINE 5	LINE 6	LINE 7	LINE 8	LINE 9
DESIGN ELEVATION AT PIPE	485.00	484.55	484.10	483.65	483.20	482.75	482.30	481.85	481.40
GROUNDWATER DEPTH	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75
SEPARATION TO BOTTOM SAS	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
BOTTOM C33 SYSTEM SAND	487.25	486.80	486.35	485.90	485.45	485.00	484.55	484.10	483.65
BOTTOM PIPE	487.75	487.30	486.85	486.40	485.95	485.50	485.05	484.60	484.15
TOP PIPE	488.75	488.30	487.85	487.40	486.95	486.50	486.05	485.60	485.15
4" INVERT PIPE	488.33	487.88	487.43	486.98	486.53	486.08	485.63	485.18	484.73
TOP C33 SYSTEM SAND	488.83	488.38	487.93	487.48	487.03	486.58	486.13	485.68	485.23
FINISH GRADE OVER PIPE	489.33	488.88	488.43	487.98	487.53	487.08	486.63	486.18	485.73
D-BOX OUT	488.50								
D-BOX IN	488.67								
SEPTIC TANK OUT	489.02								
SEPTIC TANK IN	489.27								
INVERT AT BUILDING	490.98								

NOTE:
 ALL ENVIRO-SEPTIC LINES TO BE LAID LONGITUDINALLY LEVEL.

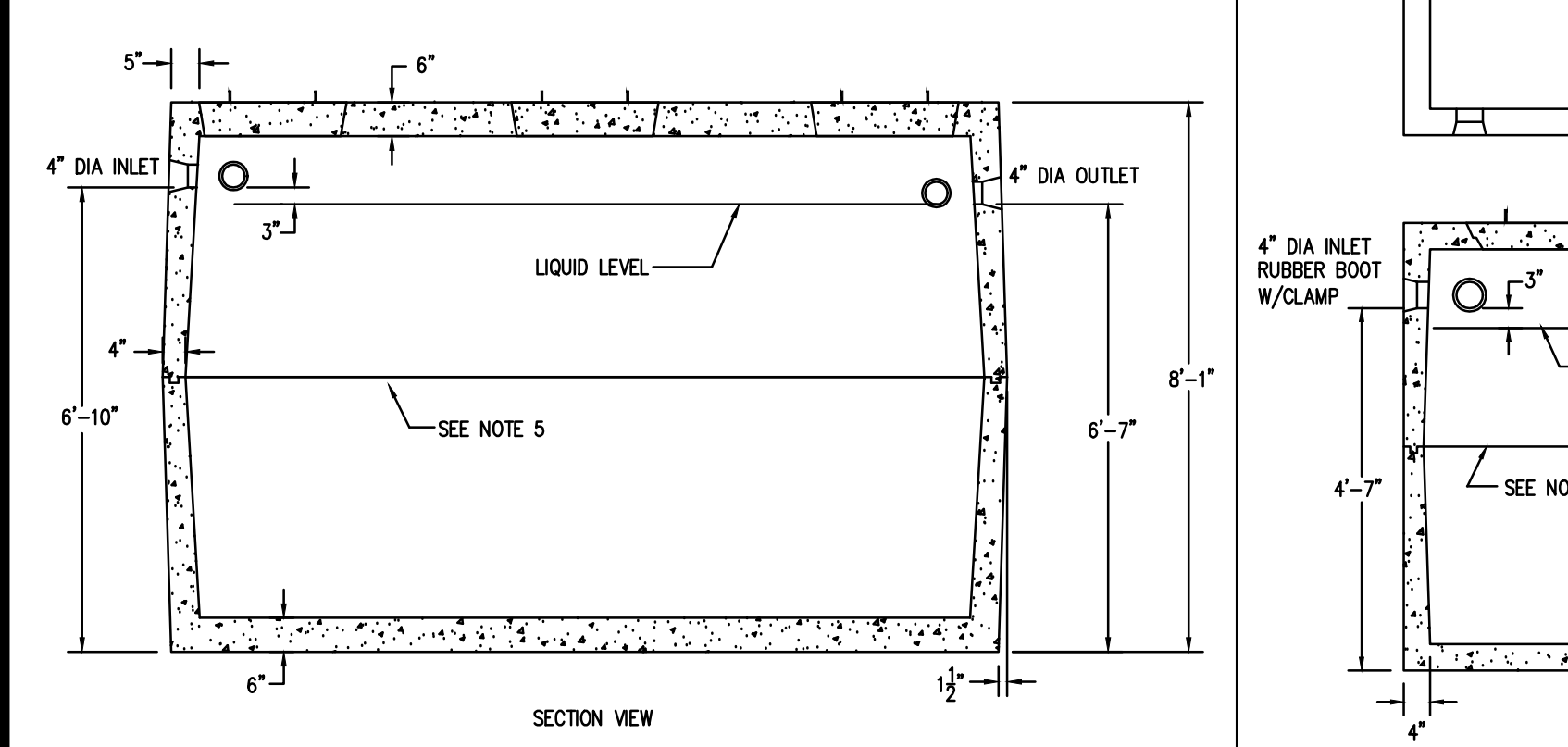
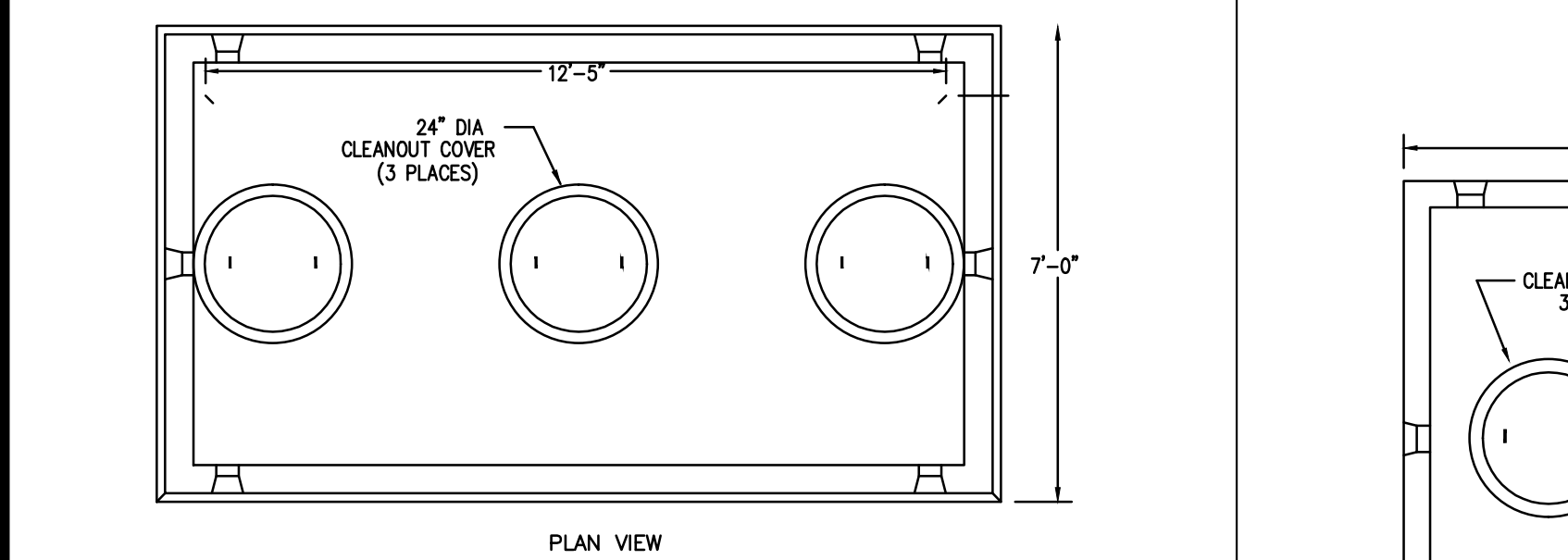
NUMBER OF BEDS = 1 SERIAL BED
 NUMBER OF DISTRIBUTION ROWS = 9 ROWS
 LENGTH OF PIPE PER EACH ROW = 95'
 TOTAL L.F. OF PIPE = 838LF REQ'D, 855LF PROVIDED
 SPACING BETWEEN PIPES (CTR-TO-CTR) = 2.25'
 SPACING BETWEEN PIPES AND EDGE OF C-33 SAND BED = 1'
 DISTANCE FROM BOTTOM OF PIPES TO BOTTOM OF C-33 SAND = 6"
 DISTANCE FROM TOP OF PIPES TO TOP OF C-33 SAND = 6"



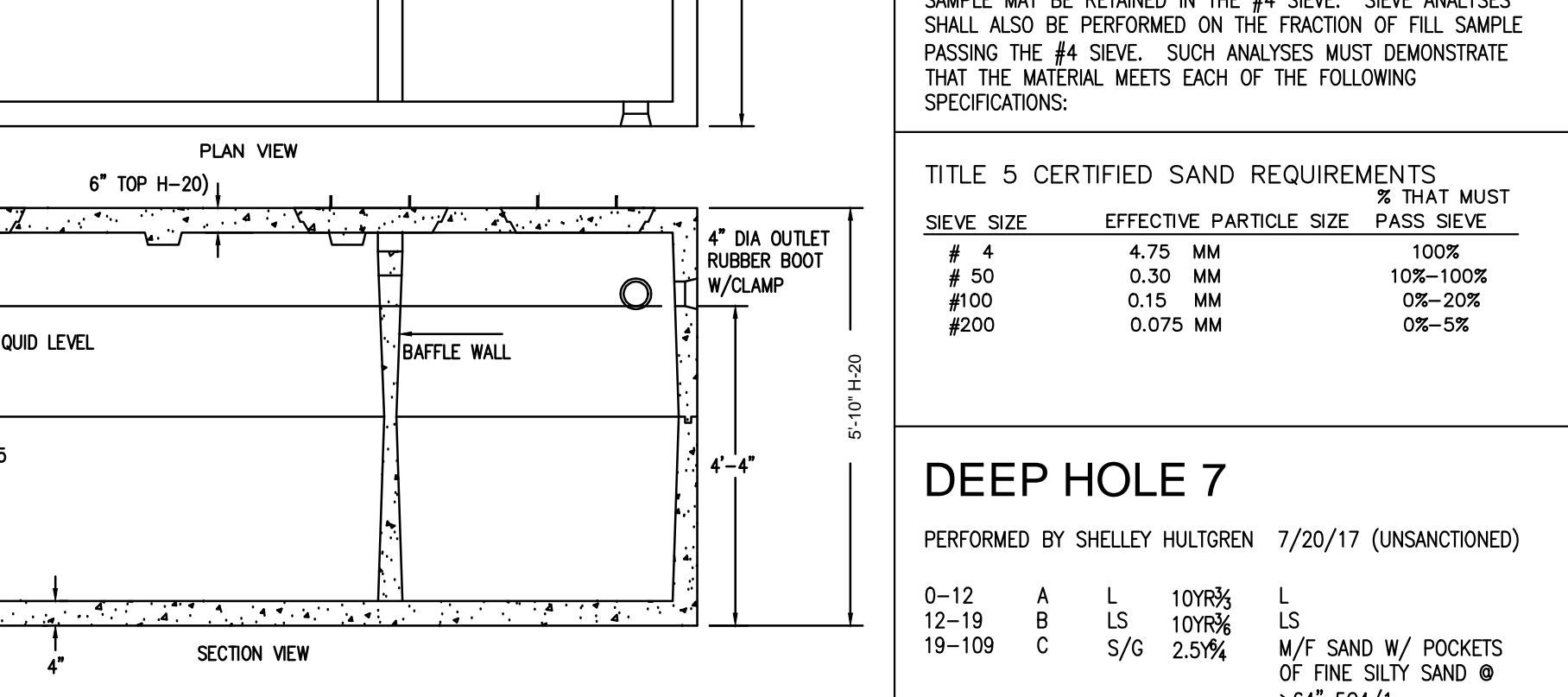
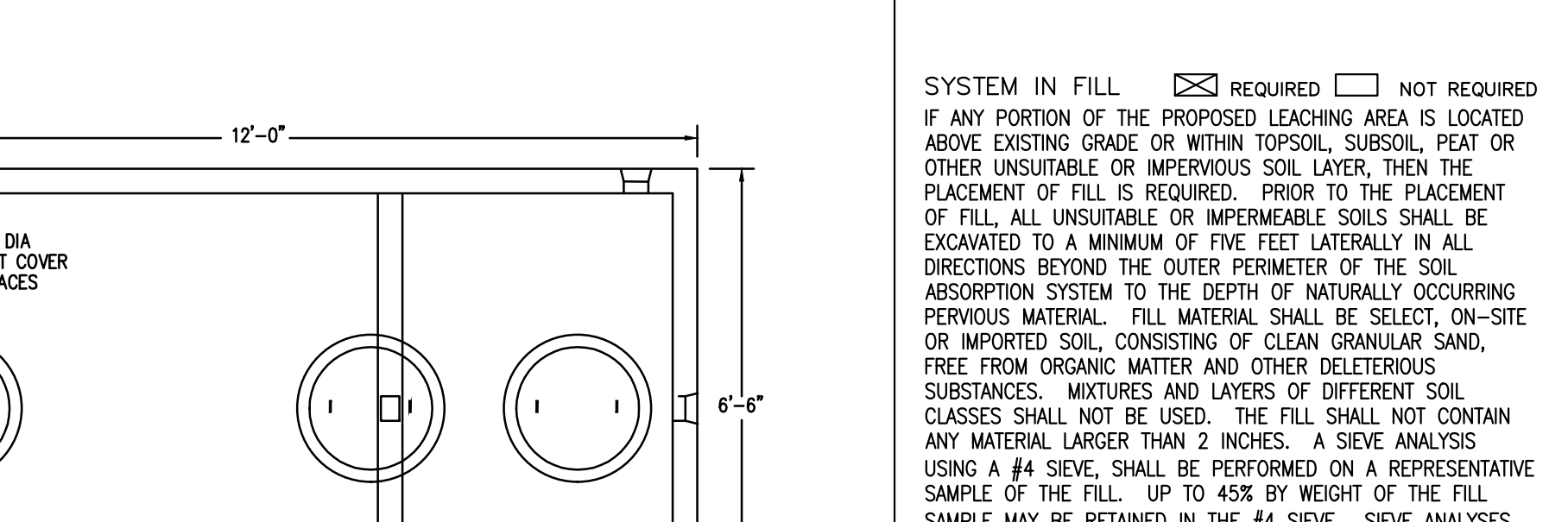
DESIGN CRITERIA

TYPE OF BUILDING	PROPOSED POLICE STATION
# OF JAIL CELLS	3 @ 35 GPD/PERSON
# CLASSROOM SEATS	24 SEATS @ 10 GPD/PERSON
FLOOR AREA OF OFFICE SPACE	2,691 @ 75 GPD/1000 SF
LOOKERS W/ SHOWER	25 @ 20 GPD
CALCULATED DESIGN FLOW	1,047 GPD
GREASE TRAP	N/A
GARBAGE DISPOSAL	NOT ALLOWED
FIELD PERCOLATION RATE	LAB TESTED @ 0.33 LTR
DESIGN PERC RATE	30 MPI
% SLOPE OF SYSTEM	20%
NUMBER OF DISTRIBUTION LINES	9
LENGTH OF PIPE PER ROW	95'
LATERAL PIPE SPACING	2.25' ON CENTER
DIGOUT DIMENSIONS (L x W)	107'L x 31'W

- GENERAL NOTES**
- TOWN OF SUTTON - 489 CENTRAL TURNPIKE, BOOK 49339, PAGE 184, ASSESSOR'S MAP 30, PARCEL 38
 - THE PROPERTY LINE INFORMATION SHOWN ON THIS PLAN WAS PROVIDED BY ANDREWS SURVEY & ENGINEERING IN APRIL 2017
 - THE EXISTING TOPOGRAPHY, FEATURES, AND UTILITIES SHOWN ON THIS PLAN ARE BASED ON A PLAN PREPARED BY COTLE ENGINEERING IN 2008, SOURCE UNKNOWN
 - THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE TO BE CONSIDERED APPROXIMATE AND ARE BASED ON THE FIELD LOCATIONS OF THE OBSERVABLE STRUCTURES SUCH AS CATCH BASINS, GAS GATES, MANHOLES, WATER GATES, ETC. AND THE COMPLETION OF INFORMATION OBTAINED FROM VARIOUS UTILITY COMPANIES, GOVERNMENT AGENCIES, AND THE OWNER. THE ENGINEER DOES NOT GUARANTEE THAT ALL UTILITIES AND UNDERGROUND STRUCTURES ARE SHOWN. PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL VERIFY THE INVERT ELEVATIONS, LOCATION, AND SIZE OF THE UTILITIES AND UNDERGROUND STRUCTURES WITH RESPECT TO THIS PLAN.
 - IN ACCORDANCE WITH M.G.L. CHAPTER 82, SECTION 40, INCLUDING AMENDMENTS, ALL CONTRACTORS SHALL NOTIFY IN WRITING ALL UTILITY COMPANIES AND GOVERNMENT AGENCIES PRIOR TO ANY EXCAVATION WORK AND CALL DIG-SAFE AT 1-888-344-7233, 72 HOURS BEFORE ANY EXCAVATION.
 - THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF ANY DISCREPANCIES ARE OBSERVED BETWEEN THE EXISTING CONDITIONS SHOWN HEREON AND THE FIELD CONDITIONS.
 - ALL PROPOSED GRASSES SHALL BE BLENDED SMOOTHLY INTO THE EXISTING GRADES. FINISHED SURFACES SHALL BE GRADED SMOOTHLY AND PROVIDE POSITIVE DRAINAGE AWAY FROM THE PROPOSED BUILDING.
 - THE PROPOSED CONSTRUCTION SITE AREA LIES WITHIN ZONE C AS SHOWN ON THE FLOOD INSURANCE RATE MAP, TOWN OF SUTTON, MASSACHUSETTS, COMMUNITY PANEL 20020404F.
 - THE AREA OF PROPOSED ACTIVITY DOES NOT LIE WITHIN A MAPPED FLOOD HAZARD ZONE AS SHOWN ON THE FLOOD INSURANCE RATE MAP, WORCESTER COUNTY MASSACHUSETTS.
 - TOWN OF SUTTON CONSERVATION COMMISSION APPROVAL MAY BE REQUIRED FOR THE WORK PROPOSED ON THIS PLAN.
 - ALL MODIFICATIONS TO THIS PLAN MUST BE PRE-APPROVED IN WRITING BY THE DESIGN ENGINEER AND THE LOCAL BOARD OF HEALTH.
 - ALL CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM WITH THE LOCAL BOARD OF HEALTH AND THE STATE ENVIRONMENTAL CODE TITLE 5, AND ENVIROSEPTIC.
 - THE CONSTRUCTION OF PERMANENT STRUCTURES UPON THE DISPOSAL SYSTEM AND/OR RESERVE AREA IS NOT ALLOWED.
 - TO OBTAIN A CERTIFICATE OF COMPLIANCE, A MINIMUM 3 INSPECTIONS (BOTTOM, COMPONENT, FINAL GRADING) WILL BE REQUIRED BY THE DESIGN ENGINEER.
 - MACHINERY WHICH MAY CRUSH OR DISTURB THE PIPE SHALL NOT BE ALLOWED ON THE DISPOSAL AREA.
 - THIS SYSTEM WAS NOT DESIGNED TO FACILITATE A GARBAGE DISPOSAL.
 - TOPSOIL, SUBSOIL, PEAT, FILL, AND OTHER IMPERVIOUS AND DELTERIOUS MATERIALS SHALL BE REMOVED FROM ALL AREAS WITHIN THE LEACHING SYSTEM AND FOR A DISTANCE OF 5 FEET IN ALL DIRECTIONS THEREFROM.
 - WHERE A SEWAGE DISPOSAL SYSTEM IS TO BE CONSTRUCTED IN FILL, THE FILL SHALL BE PLACED AND COMPACTED IN 12 INCH LIFTS OR ALLOWED TO SETTLE FOR A MINIMUM OF ONE YEAR. THE FILL MATERIAL MUST CONFORM WITH THE LOCAL BOARD OF HEALTH AND STATE ENVIRONMENTAL CODE TITLE 5 SECTION 15.255.
 - THE BASES FOR THE SEPTIC TANK AND THE DIST. BOX SHALL BE COMPACTED BY A VIBRATORY TAMPER OR EQUAL. A MINIMUM OF 12" OF CRUSHED STONE IS REQUIRED UNDER THE TANK AND THE DIST. BOX.
 - ALL INTERIOR PLUMBING SHALL BE CONNECTED TO PROPOSED SEPTIC SYSTEM WITH THE EXCEPTION OF WATER SOFTENERS/CONDITIONING SYSTEMS AND THEIR BYPRODUCTS/DISCHARGES THEREFROM, AND ANY FLOOR DRAINS.
 - DETECTABLE UNDERGROUND MARKING TAPE (MAGNETIC) SHALL BE LAID OVER ALL SYSTEM COMPONENTS AND PIPING.
 - ALL WELLS WITHIN 150' OF THE PROPOSED LEACH FIELD ARE SHOWN OR NOTED.
 - ALL APPLICABLE STATE AND LOCAL PERMITS SHALL BE ACQUIRED PRIOR TO COMMENCING WITH ANY CONSTRUCTION ON SITE.
 - HYDRAULIC CEMENT IS REQUIRED TO SEAL ALL CONNECTIONS AT THE SEPTIC TANKS, PUMP CHAMBER, AND D-BOX
 - THE LOT DOES NOT LIE WITHIN A TRIBUTARY TO A DRINKING WATER SUPPLY
 - IT IS RECOMMENDED THAT THE SEPTIC TANK BE PUMPED AT LEAST ANNUALLY OR IN ACCORDANCE WITH 310CMR 15.351.



- NOTES:
- CONCRETE: 4,000 PSI MINIMUM AFTER 28 DAYS.
 - DESIGN CONFORMS WITH 310 CMR 15.00, DEP TITLE 5 REQS. FOR SEPTIC TANKS.
 - ALL REINFORCEMENT PER ASTM C1227.
 - TONGUE & GROOVE JOINT SEALED WITH BUTYL RESIN.
 - TEES AND BAFFLES SOLD SEPARATELY.



- NOTES:
- CONCRETE: 4,000 PSI MINIMUM AFTER 28 DAYS.
 - DESIGN CONFORMS WITH 310 CMR 15.00, DEP TITLE 5 REQS. FOR SEPTIC TANKS.
 - ALL REINFORCEMENT PER ASTM C1227.
 - BAFFLE WALL OPTIONAL FOR TWO COMPARTMENT TANKS.
 - TEES AND GAS BAFFLE SOLD SEPARATELY.
 - TONGUE & GROOVE JOINT SEALED WITH BUTYL RESIN.

SYSTEM IN FILL REQUIRED NOT REQUIRED
 IF ANY PORTION OF THE PROPOSED LEACHING AREA IS LOCATED ABOVE EXISTING GRADE OR WITHIN TOPSOIL, SUBSOIL, PEAT OR OTHER UNSUITABLE OR IMPERVIOUS SOIL LAYER, THEN THE PLACEMENT OF FILL IS REQUIRED. PRIOR TO THE PLACEMENT OF FILL, ALL UNSUITABLE OR IMPERVIOUS SOILS SHALL BE EXCAVATED TO A MINIMUM OF FIVE FEET LATERALLY IN ALL DIRECTIONS BEYOND THE OUTER PERIMETER OF THE SOIL ABSORPTION SYSTEM TO THE DEPTH OF NATURALLY OCCURRING PERVIOUS MATERIAL. FILL MATERIAL SHALL BE SELECT, ON-SITE OR IMPORTED SOIL, CONSISTING OF CLEAN GRANULAR SAND, FREE FROM ORGANIC MATTER AND OTHER DELTERIOUS SUBSTANCES. MIXTURES AND LAYERS OF DIFFERENT SOIL CLASSES SHALL NOT BE USED. THE FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN 2 INCHES. A SIEVE ANALYSIS USING A #4 SIEVE, SHALL BE PERFORMED ON A REPRESENTATIVE SAMPLE OF THE FILL, UP TO 45% BY WEIGHT OF THE FILL SAMPLE MAY BE RETAINED IN THE #4 SIEVE. SIEVE ANALYSES SHALL ALSO BE PERFORMED ON THE FRACTION OF FILL SAMPLE PASSING THE #4 SIEVE. SUCH ANALYSES MUST DEMONSTRATE THAT THE MATERIAL MEETS EACH OF THE FOLLOWING SPECIFICATIONS:

TITLE 5 CERTIFIED SAND REQUIREMENTS THAT MUST PASS SIEVE

SIEVE SIZE	EFFECTIVE PARTICLE SIZE	% THAT MUST PASS SIEVE
# 4	4.75 MM	100%
# 20	0.30 MM	10%-100%
# 100	0.15 MM	0%-100%
# 500	0.075 MM	0%-5%

DEEP HOLE 7

PERFORMED BY SHELLEY HULTGREN 7/20/17 (UNSANCTIONED)

0-12"	A	L	100%	L
12-19" <td>B</td> <td>LS</td> <td>100% <td>LS</td> </td>	B	LS	100% <td>LS</td>	LS
19-109" <td>C</td> <td>S/G</td> <td>2.5% <td>M/F SAND W/ POCKETS OF FINE SILTY SAND @ >64" 564/1</td> </td>	C	S/G	2.5% <td>M/F SAND W/ POCKETS OF FINE SILTY SAND @ >64" 564/1</td>	M/F SAND W/ POCKETS OF FINE SILTY SAND @ >64" 564/1

