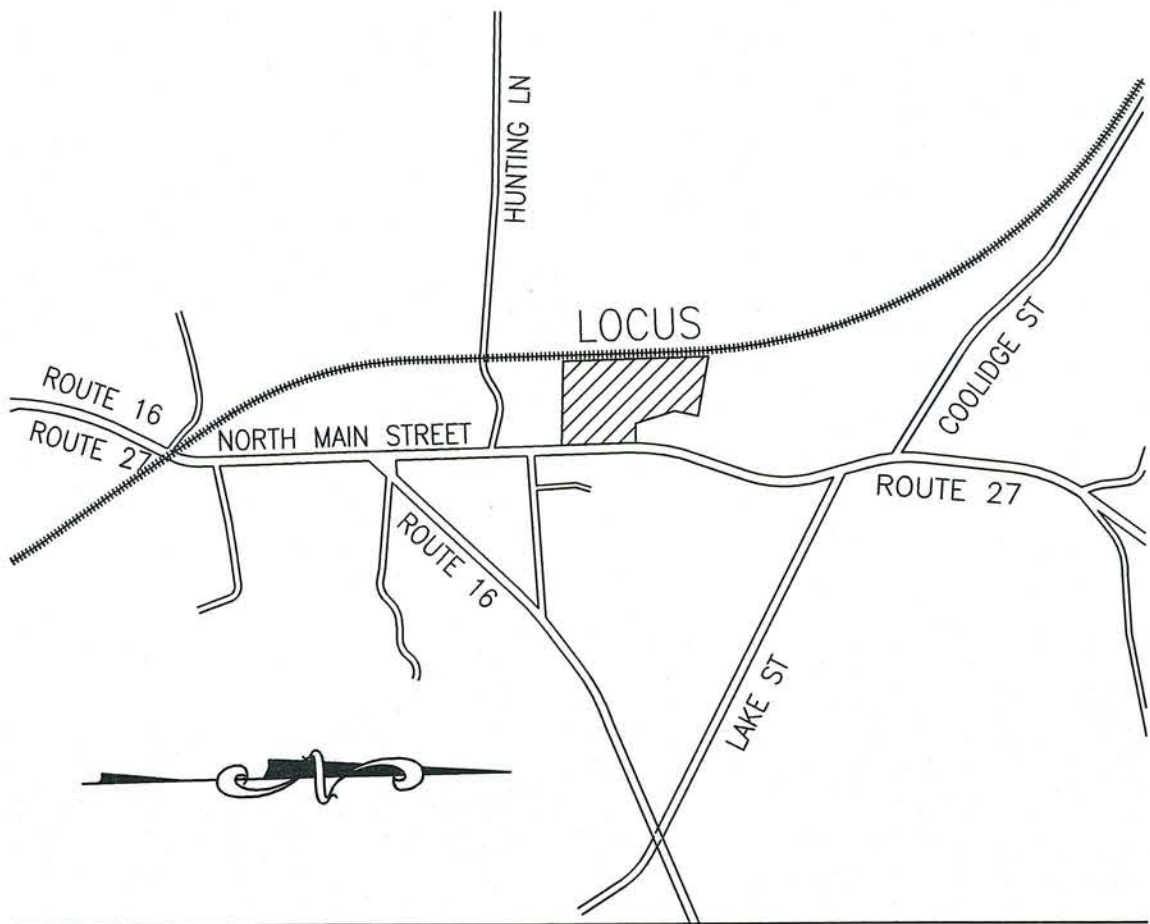


SHERBORN VILLAGE  
IN  
SHERBORN, MASSACHUSETTS  
(MIDDLESEX COUNTY)

HERITAGE PROPERTIES  
490-B BOSTON POST ROAD  
SUDBURY, MA 01776

OWNER/APPLICANT:  
HERITAGE PROPERTIES  
490-B BOSTON POST ROAD  
SUDBURY, MA 01776

ENGINEER:  
ENGINEERING DESIGN  
CONSULTANTS, INC.  
32 TURNPIKE ROAD  
SOUTHBOROUGH, MASSACHUSETTS



LOCUS  
SCALE: 1" = 1,000 S.F.

SHEET INDEX	
NUMBER	TITLE
1	COVER
2	EXISTING CONDITIONS
3	LAYOUT & MATERIALS
4	GRADING & UTILITIES
5	PROFILE
6	DETAILS

LEGEND	
BIT CONC	BITUMINOUS CONCRETE
CB	CATCH BASIN
CC	CONCRETE CURB
CCB	CAPE COD BERM
CO	CLEAN OUT
CONC	CONCRETE
CS	CURB STOP
D	DRAINLINE
DCB	DOUBLE CATCH BASIN
DI	DUCTILE IRON
DMH	DRAIN MANHOLE
ELEC	ELECTRIC
EMH	ELECTRIC MANHOLE
ETC	ELECTRIC, TELEPHONE, CABLE
FD	FOUNDATION DRAIN
FE	FLARED END
GAS	GAS LINE
GG	GAS GATE
GV	GATE VALVE
HC	HANDICAPPED RAMP
HYD	HYDRANT
INV	INVERT
LP	LIGHT POLE
MH	MANHOLE
PIV	POST INDICATOR VALVE
PPVC	PERFORATED POLY-VINYL-CHLORIDE
PVC	POLY-VINYL-CHLORIDE
RCP	REINFORCED CONCRETE PIPE
RD OR RL	ROOF DRAIN OR ROOF LEADER
S	SEWER LINE
SB/DH	STONE BOUND/DRILLHOLE
SCC	SLOPED GRANITE CURB
SMH	SEWER MANHOLE
TD	TRENCH DRAIN
TELE	TELEPHONE LINE
TMH	TELEPHONE MANHOLE
TRANS	TRANSFORMER
TS	TRANSITION STONE
UD	UNDERDRAIN
VGC	VERTICAL GRANITE CURB
W	WATER LINE
WG	WATER GATE
WGS	WATER SHUTOFF
TP	SOIL TEST PIT
PERC	PERCOLATION TEST
WF	WETLAND FLAG
ECB	EROSION CONTROL BARRIER
T24	24" TREE
TBS	STONE BOUND/DRILL HOLE TO BE SET
WGS	WATER SHUTOFF

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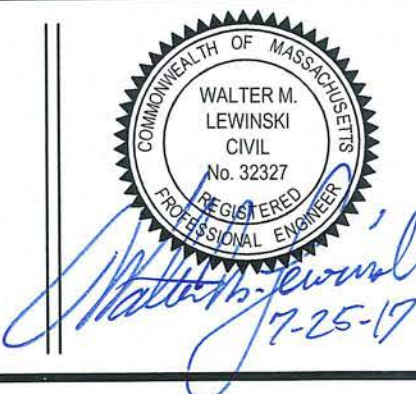
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DRAWN BY: WML  
CHECKED BY: PSB  
APPROVED BY: PSB

REVISIONS:

REV	DATE	DESCRIPTION
0	7/25/17	ISSUED FOR PEER REVIEW



PREPARED BY:  
Engineering Design Consultants, Inc.  
32 Turnpike Road  
Southborough, Massachusetts  
(508) 480-0225

PROJECT:  
SHERBORN VILLAGE  
A  
RESIDENTIAL DEVELOPMENT  
IN  
SHERBORN, MASSACHUSETTS

TITLE:  
COVER  
#59 NORTH MAIN STREET  
SHERBORN, MASSACHUSETTS

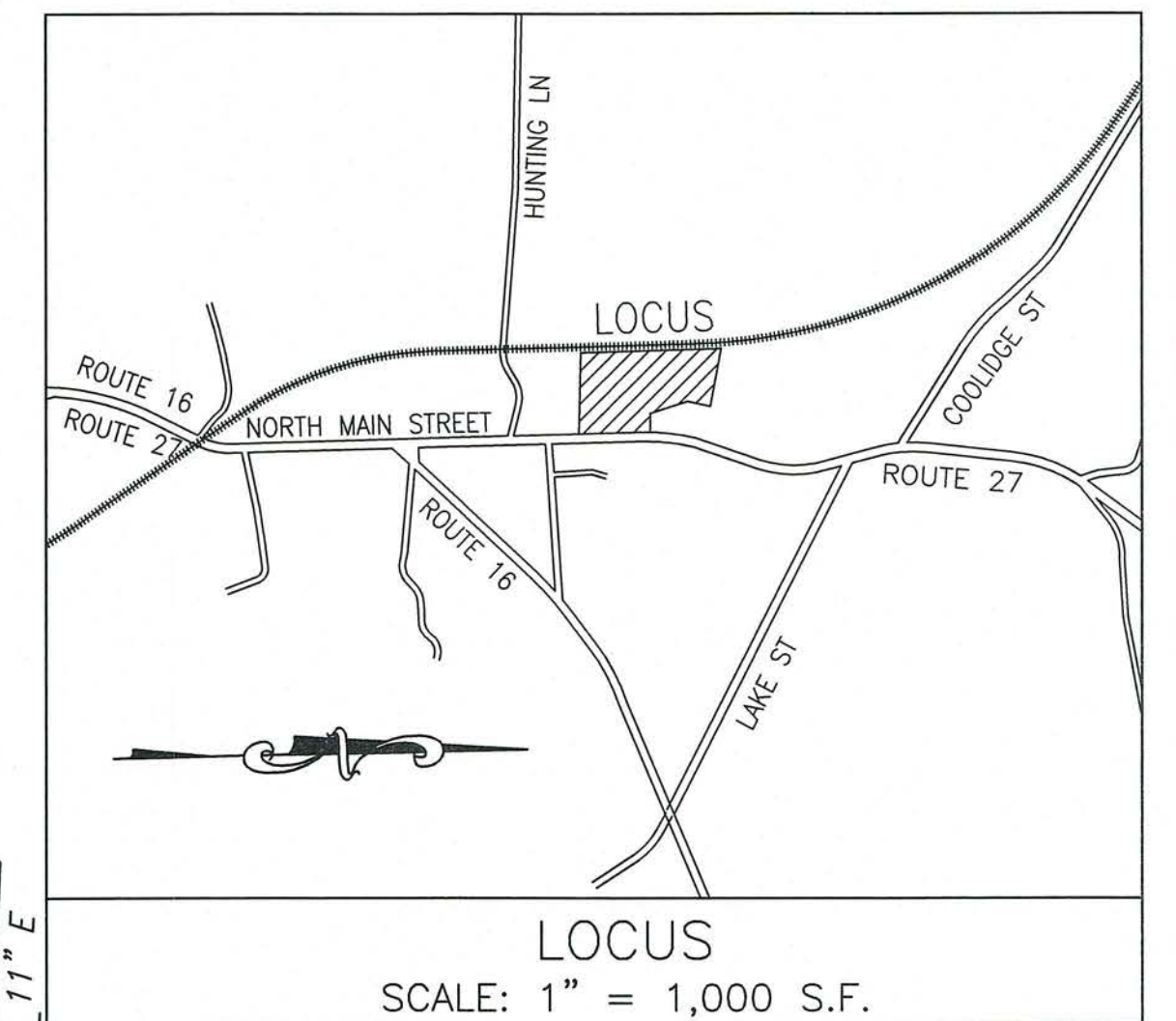
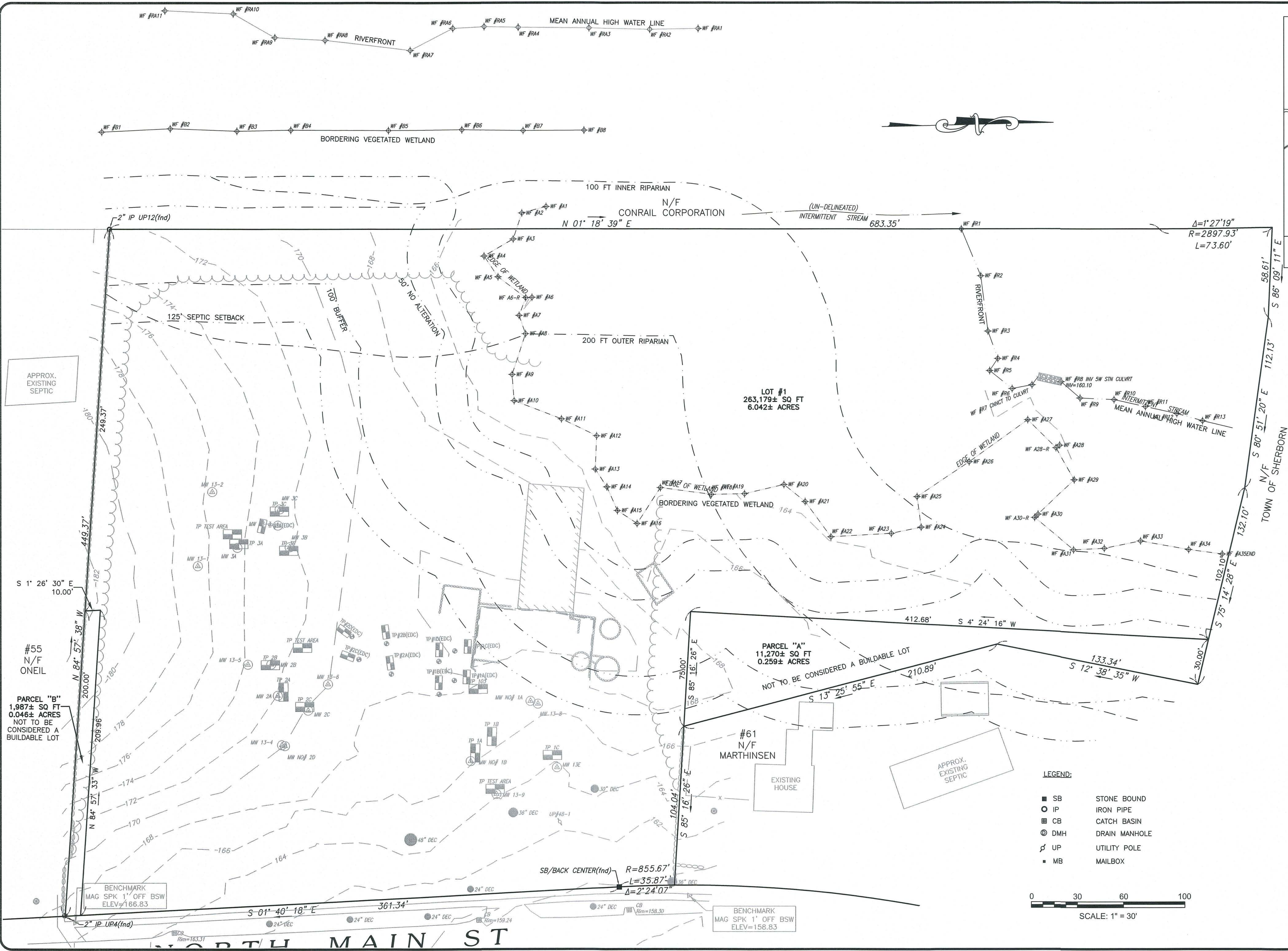
OWNER/APPLICANT:  
HERITAGE PROPERTIES  
490-B BOSTON POST ROAD  
SUDBURY, MA 01776

FILE NO.: 3438  
COVER  
DATE: JULY 25, 2017  
PLAN NO.: 1 OF 6  
1



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NOTE:  
UNDERGROUND UTILITY LOCATIONS ARE  
NOT GUARANTEED.

IT SHALL BE THE RESPONSIBILITY OF THE  
CONTRACTOR TO VERIFY LOCATIONS AND  
ELEVATIONS OF EXISTING UTILITIES PRIOR  
TO COMMENCEMENT OF ANY CONSTRUCTION

DIGSAFE IS TO BE NOTIFIED 72 BUSINESS  
HOURS IN ADVANCE OF CONSTRUCTION.  
CALL DIGSAFE AT 811



**NOTES:**

CURRENT OWNER OF RECORD:

JULIANI LABADINI PROPERTIES, LLC  
ONE HOLLIS STREET - SUITE 207  
WELLESLEY, MA 02482

DEED REFERENCE: BOOK 62749 PAGE 279

**ASSESSORS REFERENCE:**

MAP: 10 LOT:25

**CURRENT ZONING INFORMATION**

ZONING DISTRICT = RA

DIMENSIONAL REQUIREMENTS	REQUIRED
AREA	43,560 S.F.
FRONTAGE	150.0 FT.
WIDTH	150.0 FT.
BUILDING SETBACK:	
FRONT	60 FT.
SIDE	30 FT.
REAR	30 FT.
HEIGHT	35' MAX., 2.5 STORY

**PROPOSED ZONING INFORMATION**

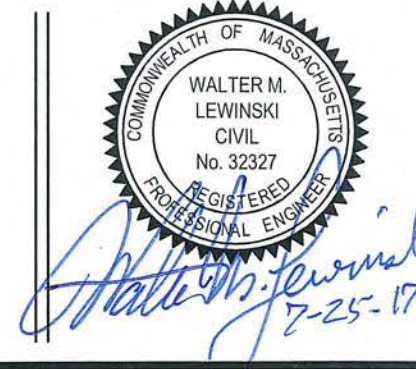
ZONING DISTRICT = EA

DIMENSIONAL REQUIREMENTS	REQUIRED	PROPOSED
AREA	43,560 S.F.	263,179 S.F.
FRONTAGE	150.0 FT.	361.3 FT.(EXIST.)
BUILDING SETBACK:		
FRONT	100 FT.	45.3 FT. WAIVER NEEDED
SIDE	60 FT.	17.7 FT. WAIVER NEEDED
REAR	60 FT.	64.0 FT.
HEIGHT	35' MAX., 2.5 STORY	(NOT EXCEEDED)

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RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS,  
TECHNIQUES, OR PROCEDURES UTILIZED BY THE  
CONTRACTOR, NOR FOR THE SAFETY OF PUBLIC OR  
CONTRACTORS EMPLOYEES, OR FOR THE FAILURE OF THE  
CONTRACTOR TO CARRY OUT THE WORK IN ACCORDANCE  
WITH THE CONTRACT DOCUMENTS.

ENGINEERING DESIGN CONSULTANTS, INC.'S LIABILITY FOR  
THIS PLAN IS LIMITED TO THE EXTENT OF ITS FEE LESS  
THIRD PARTY COSTS.

REVISIONS	DATE	DESCRIPTION
0	7/25/17	ISSUED FOR PEER REVIEW
1	7/25/17	ISSUED FOR PEER REVIEW



PREPARED BY:

Engineering Design Consultants, Inc.  
32 Turnpike Road  
Southborough, Massachusetts  
(508) 480-0225

PROJECT:

SHERBORN VILLAGE  
A  
RESIDENTIAL DEVELOPMENT  
IN  
SHERBORN, MASSACHUSETTS

TITLE:

EXISTING CONDITIONS  
#59 NORTH MAIN STREET  
SHERBORN, MASSACHUSETTS

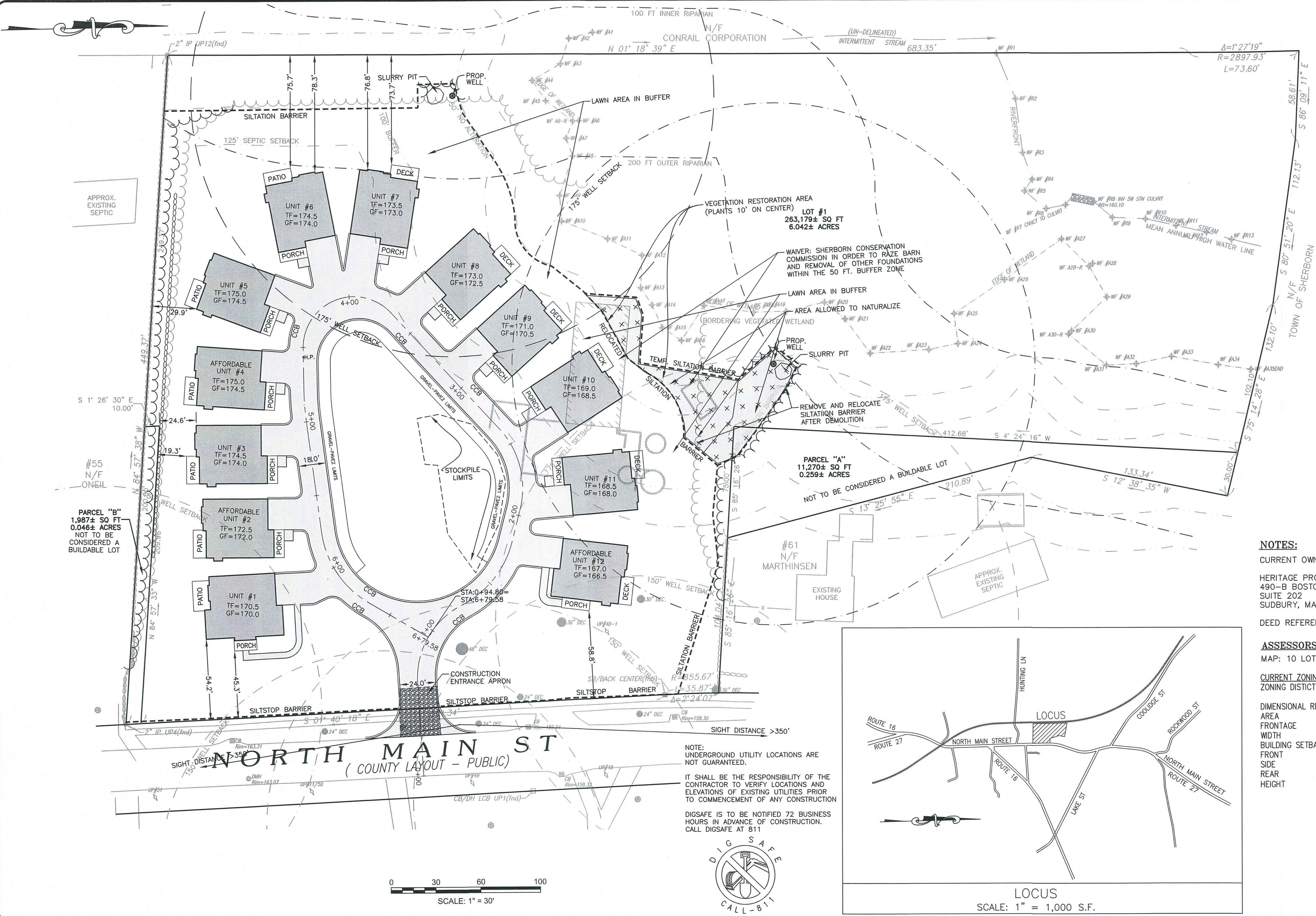
OWNER/APPLICANT:

HERITAGE PROPERTIES  
490-B BOSTON POST ROAD  
SUDBURY, MA 01776

FILE NO: 3438  
EXISTING CONDITIONS  
DATE: JULY 25, 2017  
PLAN NO: 2 of 6  
2



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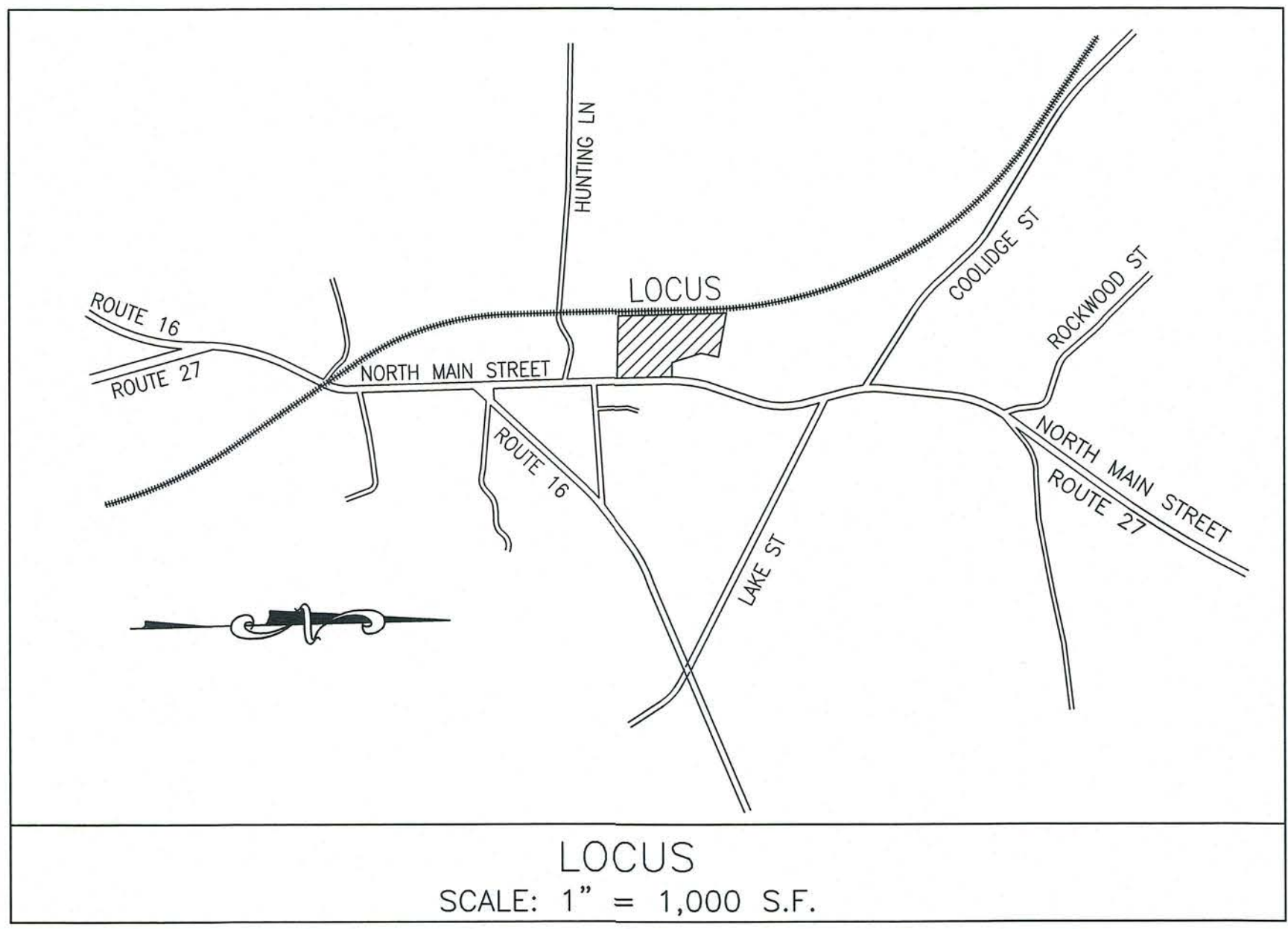
AREAS WITHIN BUFFERS	
100'-50' BUFFER	
TOTAL BUFFER ONSITE	38,397 S.F.
PROPOSED BUILDING	5,988 S.F.
PROPOSED LAWN	10,649 S.F.
EXISTING BUILDING	1,563 S.F.
EXISTING DISTURBED	702 S.F.
PROPOSED DISTURBED	1,246 S.F.
AREA TO BE NATURALIZED	2,062 S.F.
50'-30' BUFFER	
TOTAL BUFFER ONSITE	14,353 S.F.
PROPOSED BUILDING	326 S.F.
PROPOSED LAWN	3,490 S.F.
EXISTING BUILDING	1,030 S.F.
EXISTING DISTURBED	819 S.F.
PROPOSED DISTURBED	607 S.F.
AREA TO BE NATURALIZED	1,426 S.F.
30'-0' BUFFER	
TOTAL BUFFER ONSITE	24,351 S.F.
EXISTING BUILDING	323 S.F.
EXISTING DISTURBED	867 S.F.
PROPOSED DISTURBED	50 S.F.
AREA TO BE NATURALIZED	1,200 S.F.

**NOTES:**  
CURRENT OWNER OF RECORD  
HERITAGE PROPERTIES  
490-B BOSTON POST ROAD  
SUITE 202  
SUDBURY, MA 01776  
DEED REFERENCE: BOOK 65811 PAGE 274

**ASSESSORS REFERENCE:**  
MAP: 10 LOT: 25

**CURRENT ZONING INFORMATION**  
ZONING DISTRICT = RA

DIMENSIONAL REQUIREMENTS	REQUIRED	PROPOSED
AREA	43,560 S.F.	263,179 S.F.
FRONTAGE	150.0 FT.	
WIDTH	150.0 FT.	
BUILDING SETBACK:		
FRONT	60 FT.	45.3 FT
SIDE	30 FT.	17.7 FT
REAR	30 FT.	64.0 FT
HEIGHT	35' MAX., 2.5 STORY	<35' 2.5 STORY



NOTE: UNDERGROUND UTILITY LOCATIONS ARE NOT GUARANTEED.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION.

DIGSAFE IS TO BE NOTIFIED 72 BUSINESS HOURS IN ADVANCE OF CONSTRUCTION. CALL DIGSAFE AT 811

**DIG SAFE**  
CALL-811

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REVISIONS

NO.	DATE	DESCRIPTION
0	7/25/17	ISSUED FOR PEER REVIEW

ENGINEERING DESIGN CONSULTANTS, INC.

WALTER M. LEWINSKI  
CIVIL  
No. 32027  
REGISTERED PROFESSIONAL ENGINEER

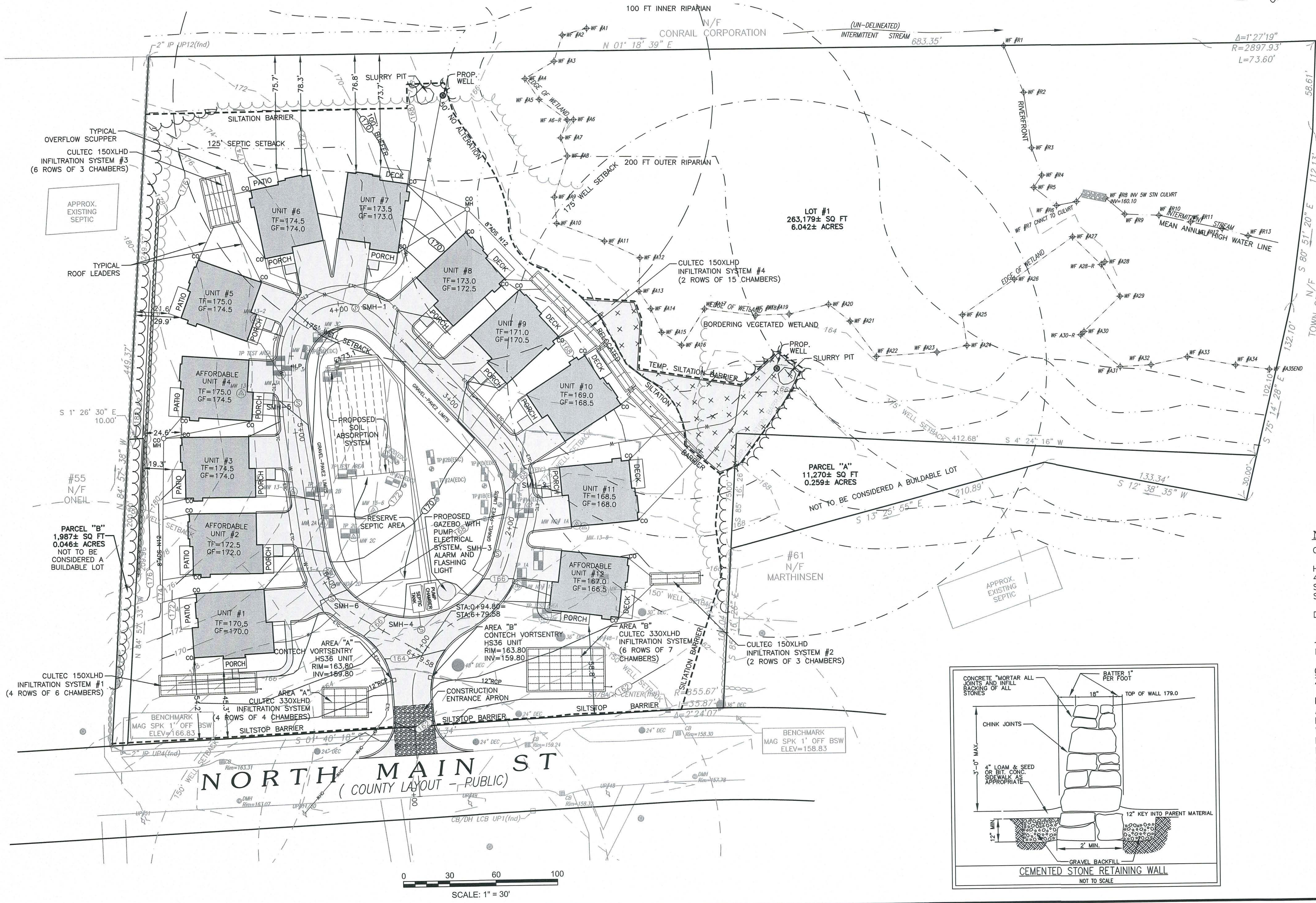
PROJECT: SHERBORN VILLAGE  
A RESIDENTIAL DEVELOPMENT  
IN SHERBORN, MASSACHUSETTS

TITLE: LAYOUT & MATERIALS  
#59 NORTH MAIN STREET  
SHERBORN, MASSACHUSETTS

OWNER/APPLICANT: HERITAGE PROPERTIES  
490-B BOSTON POST ROAD  
SUDBURY, MA 01776

FILE NO: 3438  
LAYOUT & MATERIALS  
DATE: JULY 25, 2017  
PLAN NO: 3 OF 6





NOTE:  
UNDERGROUND UTILITY LOCATIONS ARE  
NOT GUARANTEED.

IT SHALL BE THE RESPONSIBILITY OF THE  
CONTRACTOR TO VERIFY LOCATIONS AND  
ELEVATIONS OF EXISTING UTILITIES PRIOR  
TO COMMENCEMENT OF ANY CONSTRUCTION.

DIGSAFE IS TO BE NOTIFIED 72 BUSINESS  
HOURS IN ADVANCE OF CONSTRUCTION.  
CALL DIGSAFE AT 811



**CONSTRUCTION NOTES**

1. DWELLING INFILTRATION SHALL BE CULTEC RECHARGER C150XLHD, ELEVATIONS AS SHOWN ON THE DETAILS. THEY SHALL BE INTERCONNECTED WITH THE CULTEC HVLV FC-24 FEED CONNECTOR AND 8-INCH DIAMETER ADS N-12 PIPE. ROOF LEADERS SHALL BE 4-INCH ADS.
2. DRIVEWAY INFILTRATION SHALL BE CULTEC RECHARGER C330XLHD, ELEVATIONS AS SHOWN ON THE DETAILS.
3. SEWER PIPE SHALL BE 6" SCH-40 PVC, PRIME AND THOROUGHLY GLUE ALL PIPE FITTINGS.
4. MINIMUM SLOPE OF SEWER CONNECTIONS FROM UNITS S=0.010.
5. UNITS SHALL HAVE SEWER BACKFLOW PREVENTERS.
6. WATER MAIN LINE SHALL BE 8" CLDI CLASS 52, REDUCE TO 6" CLDI CLASS 52 FOR CONNECTION TO HYDRANT. HYDRANT AS SPECIFIED BY TOWN OF SOUTHBOROUGH.
7. WATER SERVICES SHALL BE 1 1/2 TYPE K COPPER.
8. SEE CONSTRUCTION NOTES AND DETAILS ON SHEET 6
9. AREA "A" & "B" SHALL BE VORTSENTRY HS36 UNITS.
10. SEWER PIPE CROSSING WATER LINE OR DRAIN LINE SHALL BE ENCASED IN CONCRETE WITH A MINIMUM OF 6-INCHES OF CONCRETE ALL AROUND AND 5-FOOT TO EITHER SIDE OF THE UTILITY CROSSING.

**NOTES:**

CURRENT OWNER OF RECORD

HP SHERBORN LLC  
490-B BOSTON POST ROAD  
SUITE 202  
SUDBURY, MA 01776

DEED REFERENCE: BOOK 65811 PAGE 274

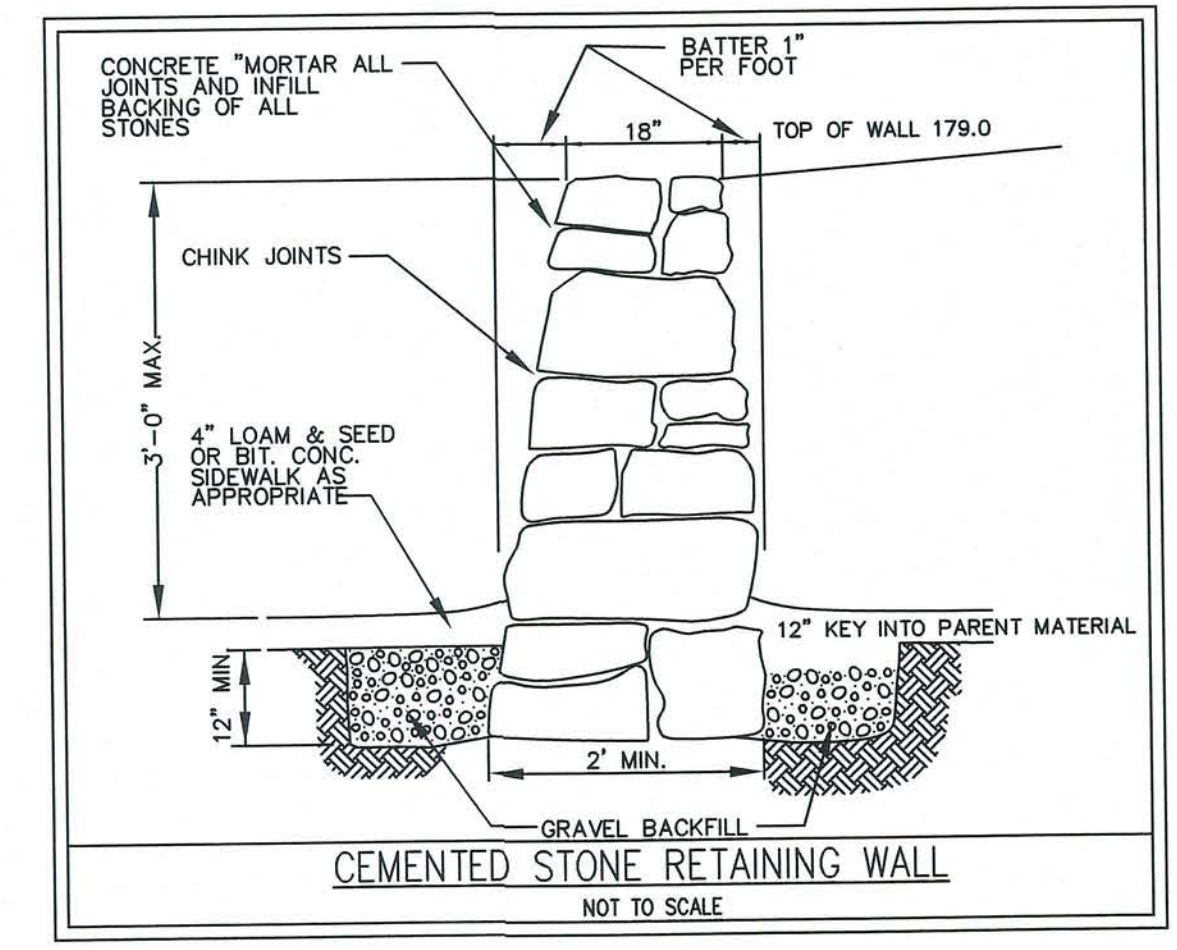
**ASSESSORS REFERENCE:**

MAP: 10 LOT: 25

**CURRENT ZONING INFORMATION**

ZONING DISTRICT = RA

DIMENSIONAL REQUIREMENTS	REQUIRED	PROPOSED
AREA	43,560 S.F.	263,179 S.F.
FRONTAGE	150.0 FT.	
WIDTH	150.0 FT.	
BUILDING SETBACK:		
FRONT	60 FT.	45.3 FT
SIDE	30 FT.	19.3 FT
REAR	30 FT.	73.7 FT
HEIGHT	35' MAX., 2.5 STORY	<35' 2.5 STORY



Engineering Design Consultants, Inc.  
32 Turnpike Road  
Southborough, Massachusetts  
(508) 480-0225



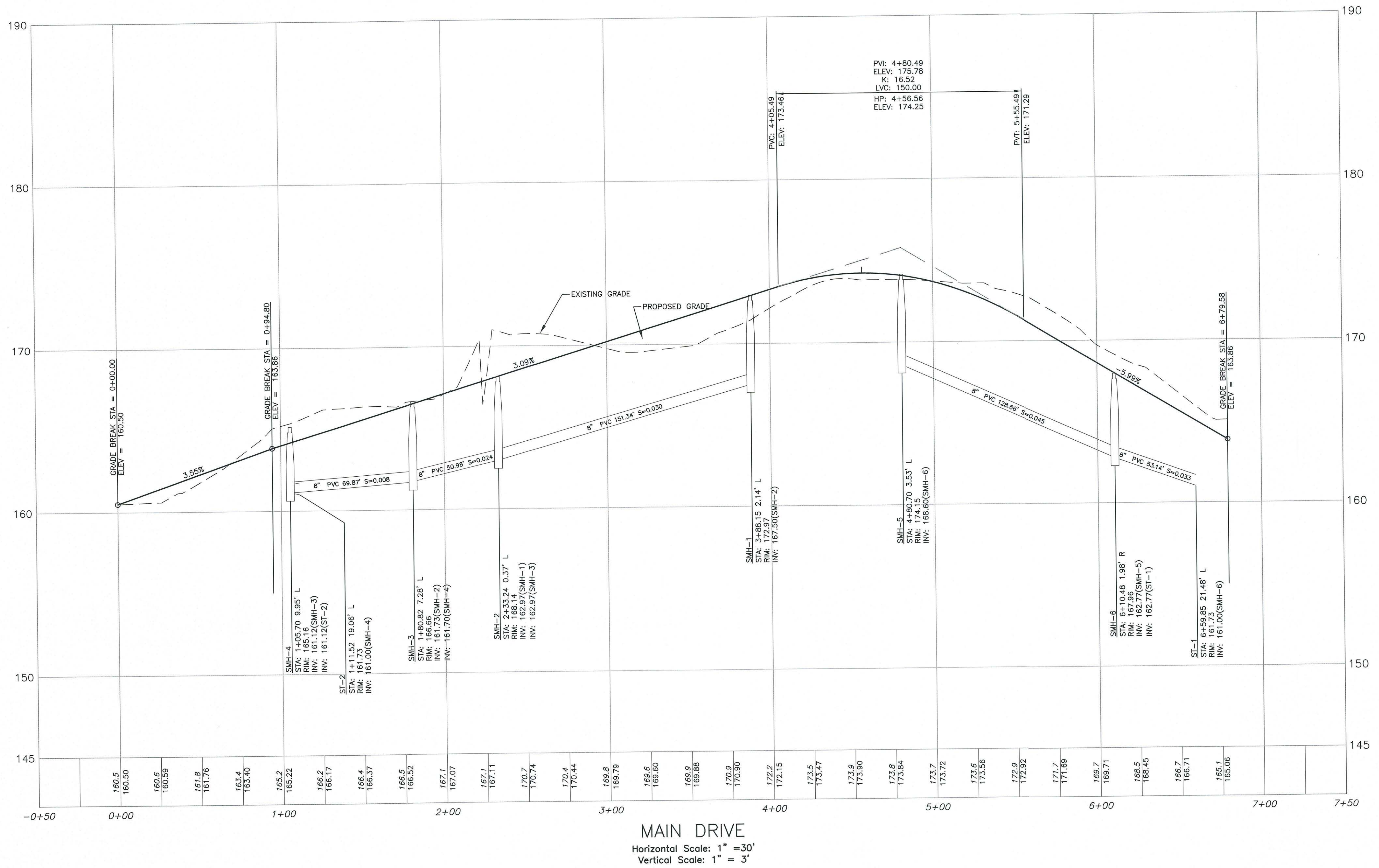
SHERBORN VILLAGE  
A  
RESIDENTIAL DEVELOPMENT  
IN  
SHERBORN, MASSACHUSETTS

GRADING & UTILITIES  
#59 NORTH MAIN STREET  
SHERBORN, MASSACHUSETTS

HERITAGE PROPERTIES  
490-B BOSTON POST ROAD  
SUDBURY, MA 01776



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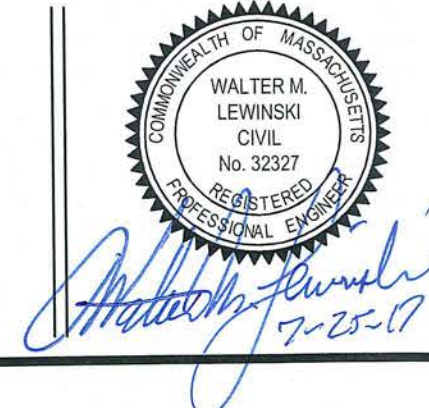


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DESIGNED BY: VML  
CHECKED BY: PSB  
APPROVED BY: PSB

REVISIONS:  
0 7/25/17 ISSUED FOR PEER REVIEW  
DATE DESCRIPTION



PREPARED BY:  
EDC Engineering Design Consultants, Inc.  
32 Turnpike Road  
Southborough, Massachusetts  
(508) 480-0225

PROJECT:  
SHERBORN VILLAGE  
A  
RESIDENTIAL DEVELOPMENT  
IN  
SHERBORN, MASSACHUSETTS

TITLE:  
PROFILE  
#59 NORTH MAIN STREET  
SHERBORN, MASSACHUSETTS  
OWNER/APPLICANT:  
HERITAGE PROPERTIES  
490-B BOSTON POST ROAD  
SUDBURY, MA 01776

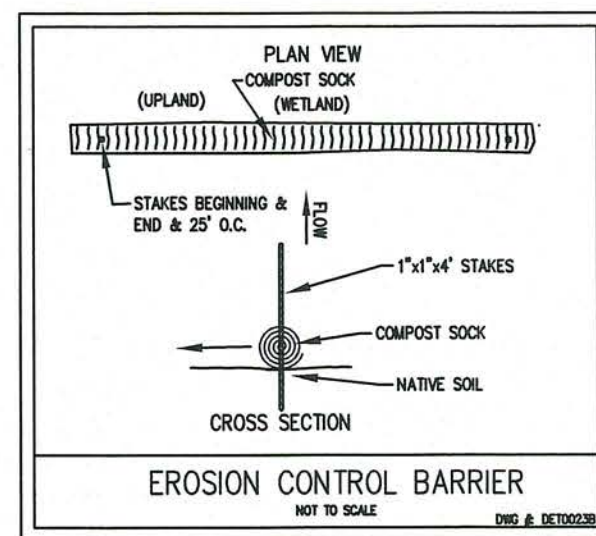
FILE NO: 3438  
PROFILE  
DATE: JULY 25, 2017  
PLAN NO: 5 OF 6  
5



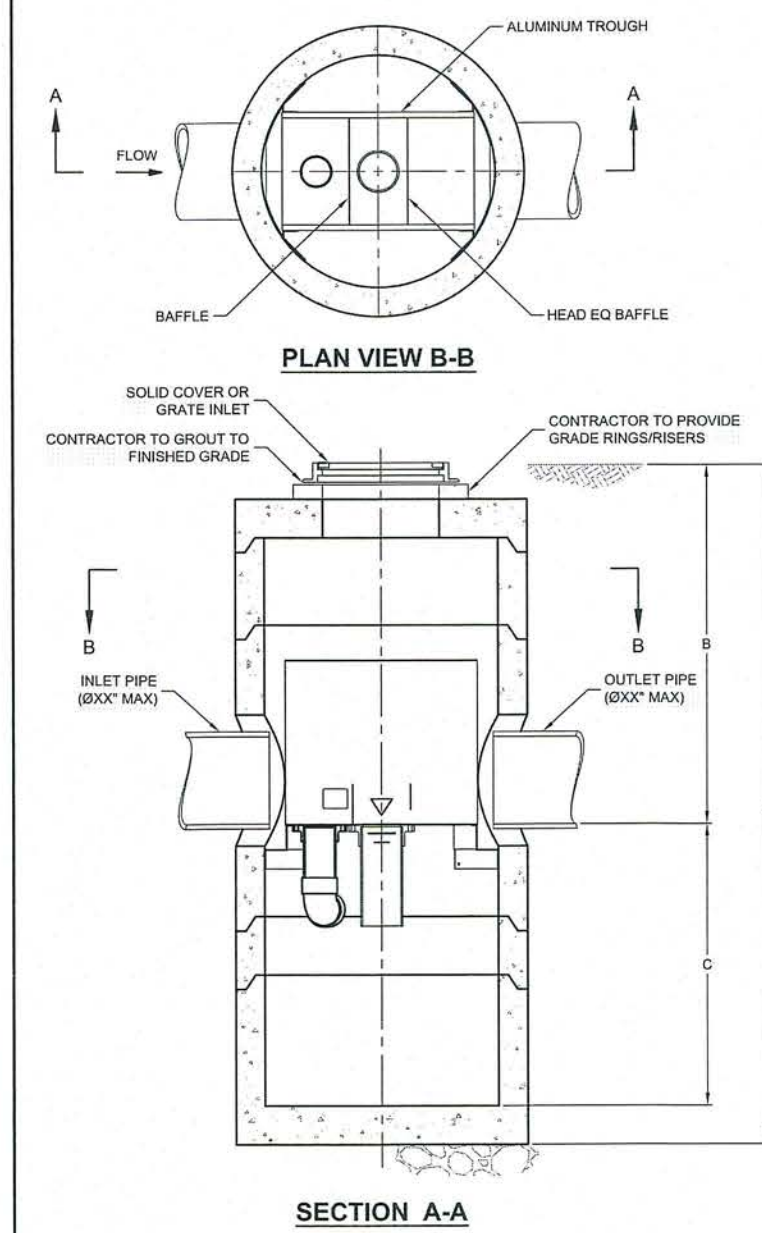
1. THE SITE CONTRACTOR SHALL POST "DEP" SIGN AND REVIEW THE CONDITIONS DESCRIBED IN THE "ORDER OF CONDITIONS" ISSUED FOR THIS PROJECT.
2. EROSION CONTROL MEASURES (SEE DETAILS) SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF CONSTRUCTION AS INDICATED.
3. MEASURES SHALL BE TAKEN TO LIMIT THE TRACKING OF MATERIAL FROM THE SITE ONTO NORTH MAIN STREET.
4. DUST SHALL BE CONTROLLED BY SPRINKLING OR OTHER APPROVED MEASURES AS NECESSARY.
5. CATCH BASIN AND FLARED END STRUCTURES SHALL BE RINGED WITH STAKED HAYBALES UNTIL THE ADJACENT SLOPES HAVE FULLY VEGETATED.
6. THROUGHOUT CONSTRUCTION, ALL DISTURBED AREAS SHALL BE LOAMED AND SEEDED AND MULCHED AS SOON AS PRACTICABLE IN ORDER TO AVOID OVERLAND TRANSPORT OF SEDIMENT.
7. EROSION CONTROL MEASURES ARE TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD AND PARTICULARLY AFTER SIGNIFICANT RAINFALL. DILAPIDATED HAYBALES AND SILT STOP SHALL BE REPLACED AS REQUIRED TO MAINTAIN THE INTEGRITY OF THE BARRIERS.
8. WITH SLOPES STABILIZED AND FINAL CONSERVATION COMMISSION INSPECTION COMPLETE, THE EROSION CONTROL BARRIER SHALL BE REMOVED AND PROPERLY DISPOSED OFF-SITE.

### SEDIMENTATION & EROSION CONTROL METHODS & PROCEDURES

DWG #: DET0020



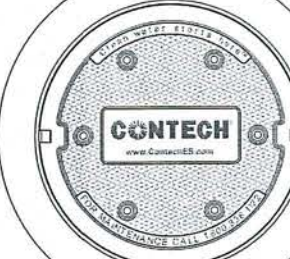
EROSION CONTROL BARRIER  
NOT TO SCALE



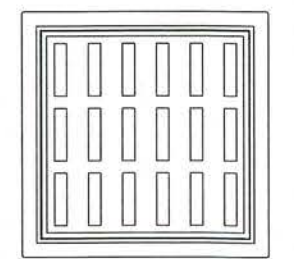
SECTION A-A

VortSentry

VORTSENTRY HS DESIGN NOTES											
VHS RATED TREATMENT CAPACITY IS SHOWN IN THE TABLE BELOW, OR PER LOCAL REGULATIONS. MAXIMUM HYDRAULIC INTERNAL BYPASS CAPACITY VARIES. CONTACT YOUR CONTECH REPRESENTATIVE FOR ADDITIONAL INFORMATION.											
THE STANDARD SOLID COVER CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE AVAILABLE AND ARE LISTED BELOW.											
CONFIGURATION OPTION DESCRIPTION											
GRATE INLET WITH INLET PIPE											
VORTSENTRY HS GENERAL INFORMATION											
Model	Manhole (ID)	Total Treatment Flow Rate	Typical Total Distance Rim to Outside Bottom	Typical Distance Rim to Invert B	Typical Depth Below Invert (Inside) C	Approximate Minimum Distance Rim to Invert	Maximum Pipe Diameter (ID)				
HSB1	3	900	3.58	10.91	3.10	4.00	1.24	5.88	1702	3.91	19
HSB2	4	1200	1.20	34.0	13.25	4.04	6.00	1.83	6.75	2057	4.00
HSB3	5	1500	7.29	42.2	15.13	4.81	6.50	1.98	7.29	2207	4.82
HSB4	6	1800	3.70	104.8	16.56	5.75	7.15	2.30	10.70	2442	5.40
HSB5	7	2100	2.80	108.8	18.85	5.75	7.15	2.30	10.70	2442	5.40
HSB6	8	2400	8.10	228.4	20.87	6.35	8.50	2.59	11.54	2616	6.91



FRAME AND COVER  
(DIAMETER VARIES)  
N.T.S.

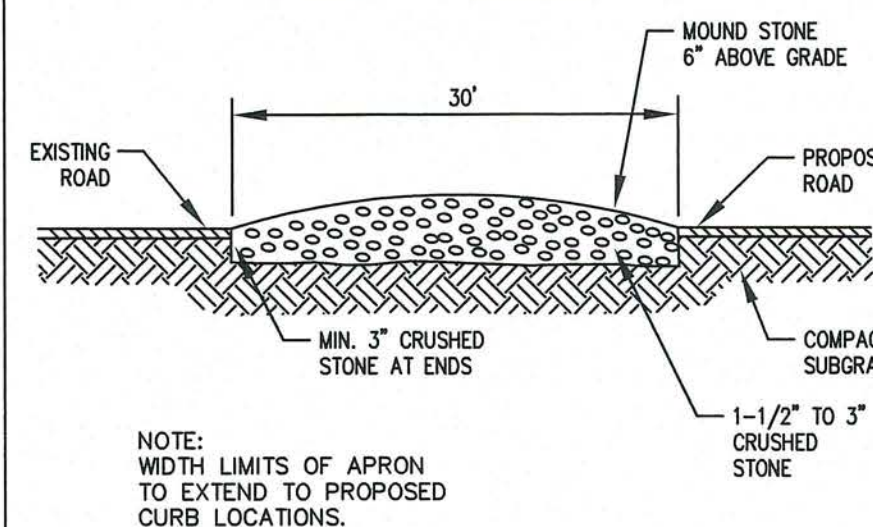


FRAME AND GRATE  
(24\"/>

- SERIAL NOTES:**
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
  2. DIMENSIONS SHOWN WITH 1/8\"/>

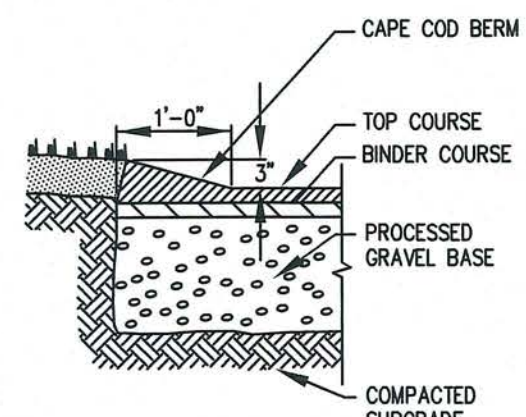
- INSTALLATION NOTES:**
1. ANY SUB-BASE, BACKFILL, DEPTH, AND/OR INFILTRATION PROVIDERS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
  2. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE VORTSENTRY HS MANHOLE STRUCTURE (LIFTING CLUTCHES PROVIDED).
  3. CONTRACTOR TO INSTALL, JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLY STRUCTURE. CONTAINED IN THIS DRAWING.
  4. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPE MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
  5. 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-engineers.com  
9030 Centre Pointe Dr., Suite 400, West Chester, OH 41090  
937.639.1122 314.642.5200 314.642.5242

VORTSENTRY HS  
STANDARD DETAIL

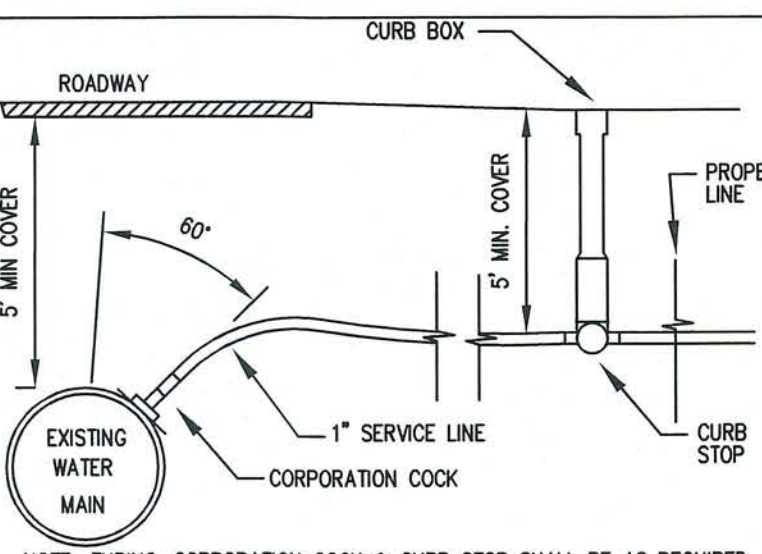
CONSTRUCTION ENTRANCE APRON  
NOT TO SCALE

DWG #: DET0020



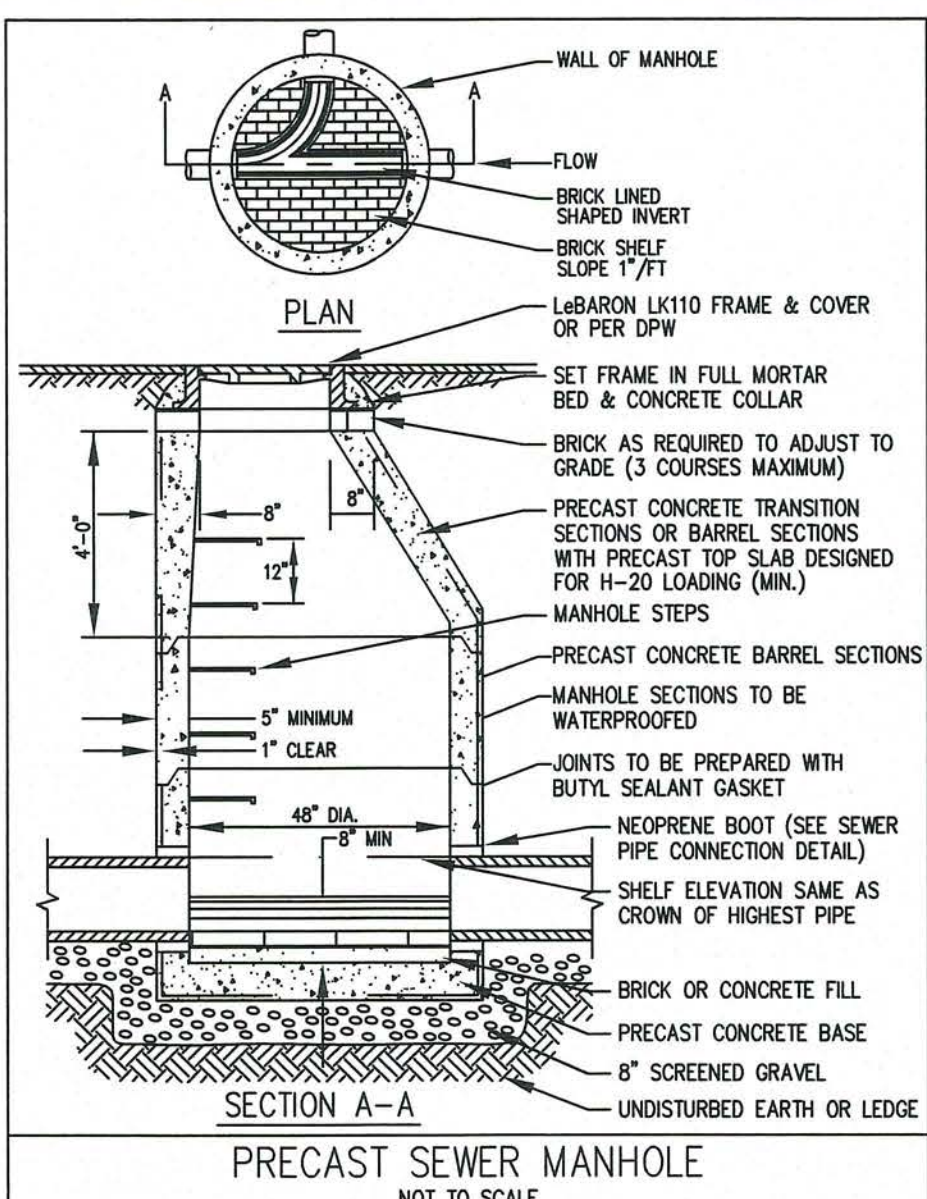
CAPE COD BERM  
NOT TO SCALE

DWG #: DET0020



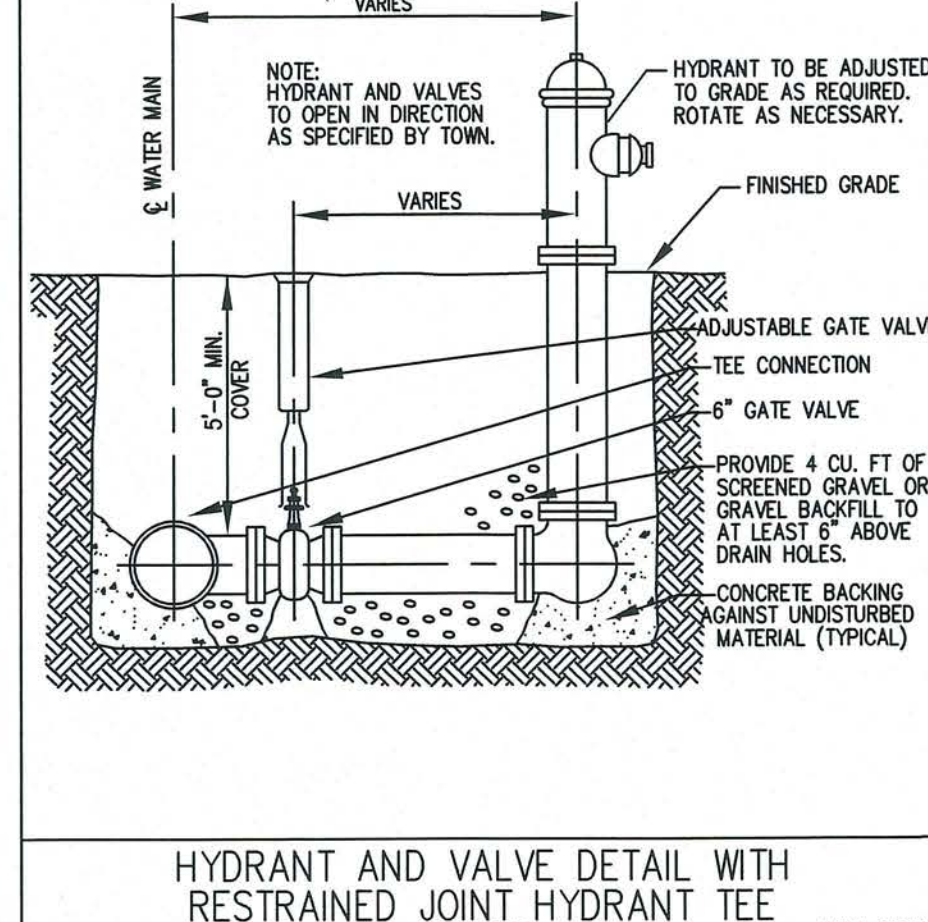
WATER SERVICE DETAIL  
NOT TO SCALE

DWG #: DET0024



PRECAST SEWER MANHOLE  
NOT TO SCALE

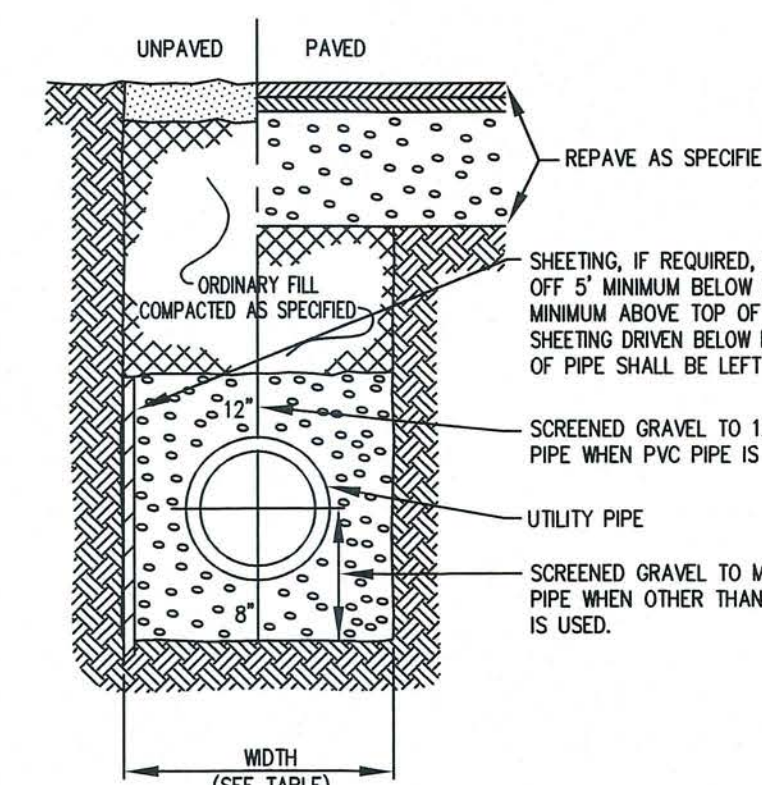
DWG #: DET0026



HYDRANT AND VALVE DETAIL WITH  
RESTRAINED JOINT HYDRANT TEE  
NOT TO SCALE

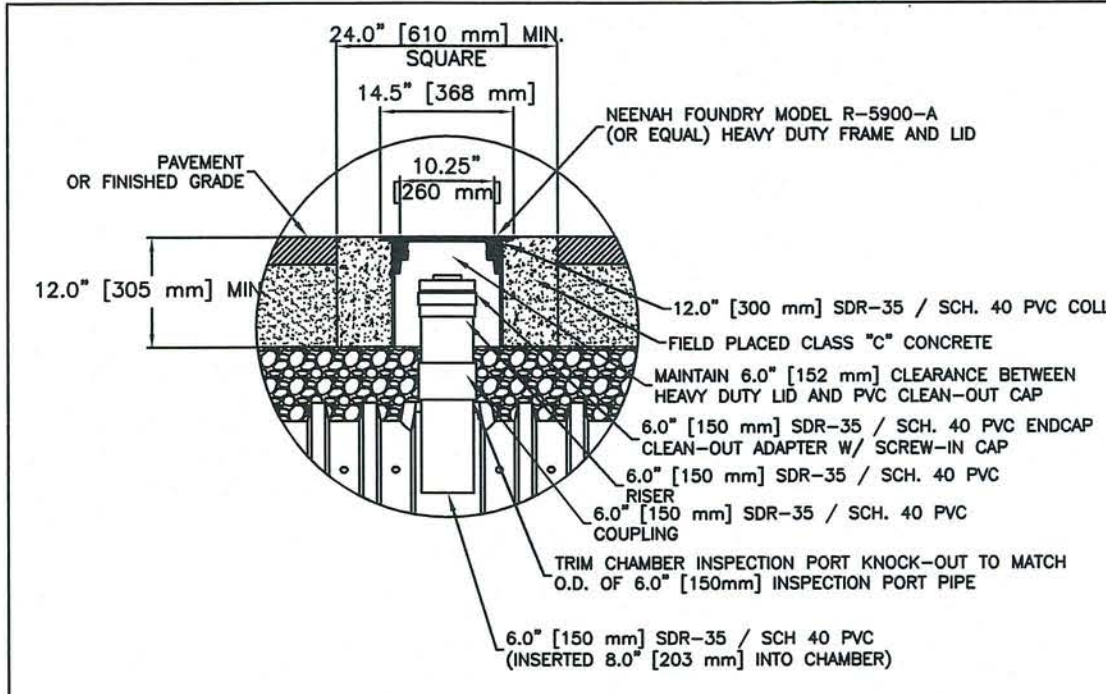
DWG #: DET0026

TRENCH WIDTH, W	D	W
DIAMETER OF PIPE	SHEETED	UNSHEETED
TO 12"	3'	4'
14" TO 24"	4'	5'
30" TO 36"	5'	6'
42"	6'	7'

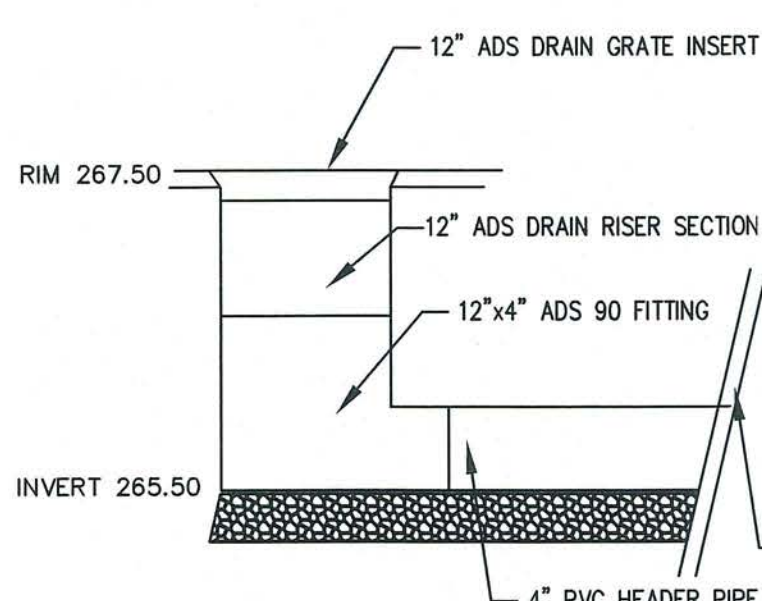


TYPICAL TRENCH SECTION  
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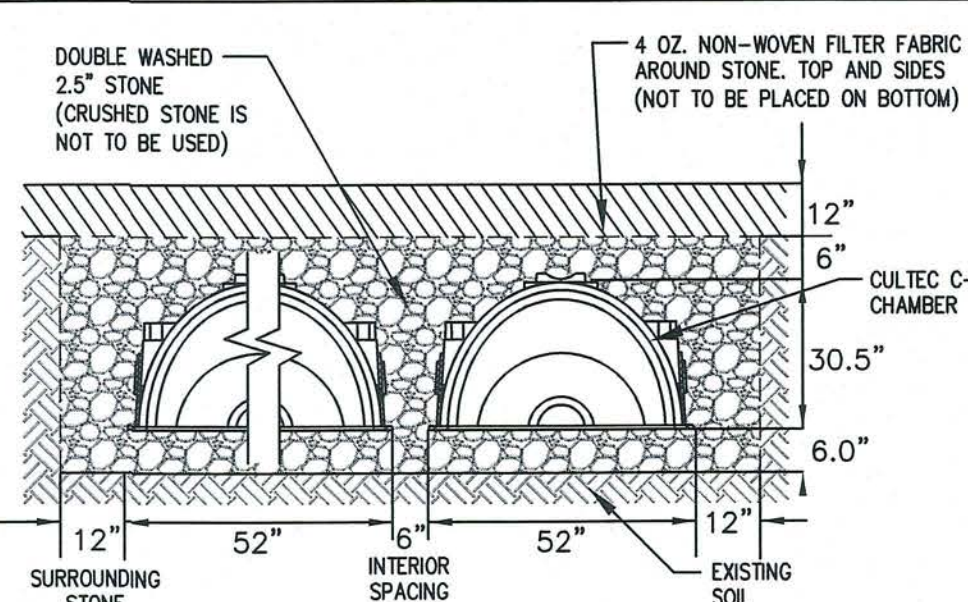
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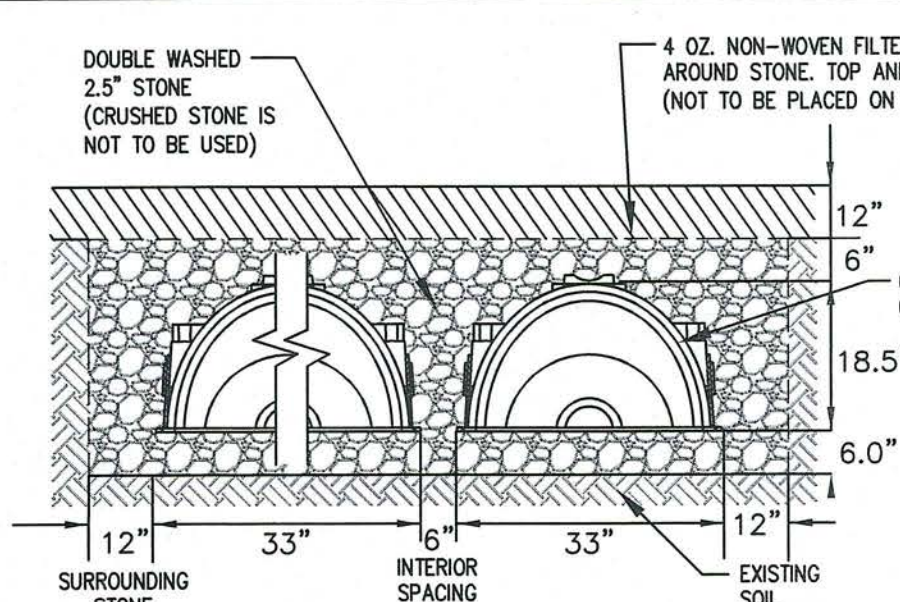
INSPECTION PORT



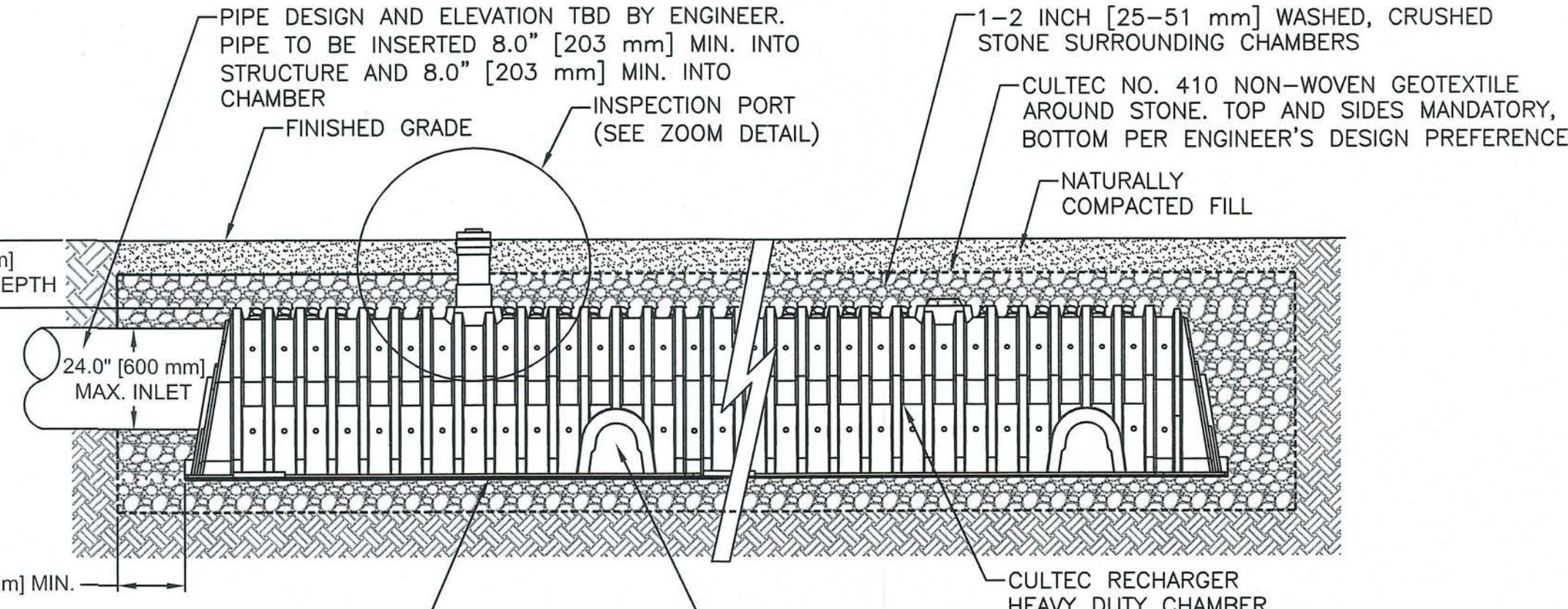
OVERFLOW SCUPPER DRAIN



CULTEC C-330XLHD - SECTION



CULTEC C-150XLHD - SECTION



CULTEC CHAMBER - PROFILE VIEW

INFILTRATION DETAILS						
INFILTRATION AREA	UNIT #1	UNIT #2	UNIT #3	UNIT #4	AREA "A"	AREA "B"
SURFACE GRADE	167.5±	165.5±	174.5±	167.5±	163.5±	162.5±
CHAMBER BOTTOM	164.5±	162.5±	171.5±	164.5±	159.0±	158.5±
ROOF LEADER INLET	164.7±	162.7±	171.7±	164.7±	159.0±	158.5±

NOTE: 6 INCHES OF WASHED STONE BELOW CHAMBER BOTTOM

INFILTRATION TRENCH SYSTEM (CULTEC RECHARGER CHAMBERS)  
NOT TO SCALE

- NOTES:
1. THE INSPECTION PORTS SHALL BE EXTENDED TO GRADE AND HAVE A REMOVABLE COVER AT SURFACE GRADE.
  2. SEE DETAIL FOR OVERFLOW SCUPPER.
  3. EACH DWELLING UNIT SHALL HAVE TWO (2) ROWS OF THREE (3) CULTEC C-150XLHD CHAMBERS CONNECTED THROUGH ROOF LEADERS.
  4. INFILTRATION AREA "A" IS COMPRISED OF SIXTEEN (16) CULTEC C-330XLHD CHAMBERS.
  5. INFILTRATION AREA "B" IS COMPRISED OF THIRTY-FIVE (35) CULTEC C-330XLHD CHAMBERS.

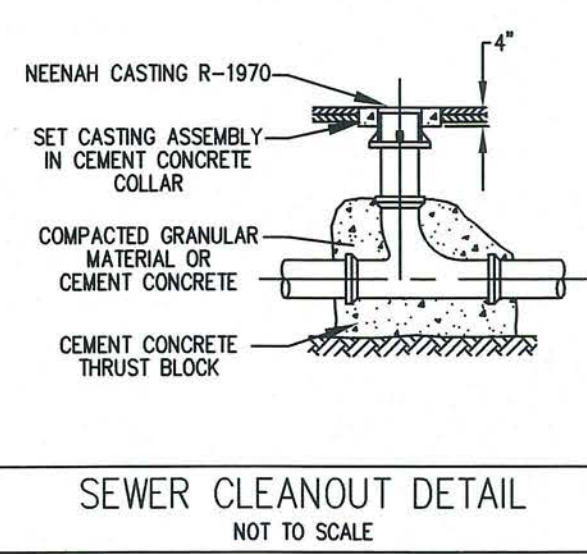
### CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL REPORT TO THE OWNER AND ENGINEER ANY SIGNIFICANT VARIATIONS IN EXISTING SITE CONDITIONS FROM THOSE SHOWN ON THESE PLANS. ANY PROPOSED REVISIONS TO THE WORK, IF REQUIRED BY THESE SITE CONDITIONS, SHALL NOT BE UNDERTAKEN UNTIL REVIEWED BY THE OWNER AND THE ENGINEER.
2. THE CONTRACTOR SHALL NOTIFY THE RELEVANT TOWN DEPARTMENTS AT LEAST 48 HOURS IN ADVANCE OF ANY REQUIRED INSPECTIONS.
3. IN ORDER TO PROTECT THE PUBLIC SAFETY DURING CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING AND MAINTAINING AT ALL TIMES NECESSARY SAFETY DEVICES AND PERSONNEL, WARNING LIGHTS, BARRICADES, AND POLICE DETAILS.
4. THE CONTRACTOR SHALL REGULARLY INSPECT THE PERIMETER OF THE PROPERTY TO CLEAN UP AND REMOVE LOOSE CONSTRUCTION.
5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTITUTE EROSION CONTROL MEASURES ON AN AS NECESSARY BASIS, SUCH THAT EXCESSIVE SOIL EROSION DOES NOT OCCUR. MEASURES SHALL INCLUDE HAY BALE DIKES ALONG THE PERIMETER OF CUTS AND FILLS, MULCHING, AND PLANTING OF DISTURBED AREAS AS SOON AS PRACTICABLE.
6. AT THE END OF CONSTRUCTION THE CONTRACTOR SHALL REMOVE ALL CONSTRUCTION DEBRIS AND SURPLUS MATERIALS FROM THE SITE. A THOROUGH INSPECTION OF THE WORK PERIMETER IS TO BE MADE AND ALL DISCARDED MATERIALS, BLOWN OR WATER CARRIED DEBRIS, SHALL BE COLLECTED AND REMOVED.
7. THE LOCATION OF UNDERGROUND UTILITIES AS REPRESENTED ON THESE PLANS IS BASED UPON PLANS AND INFORMATION PROVIDED BY THE RESPECTIVE UTILITY COMPANIES OR MUNICIPAL DEPARTMENTS SUPPLEMENTED BY FIELD IDENTIFICATION WHEREVER POSSIBLE. NO WARRANTY IS MADE AS TO THE ACCURACY OF THESE LOCATIONS OR THAT ALL UNDERGROUND UTILITIES ARE SHOWN. THE CONTRACTOR IS TO CONTACT DIG SAFE AT LEAST 72 HOURS PRIOR TO THE START OF CONSTRUCTION. DIG SAFE TELEPHONE NUMBER IS 811.
8. THE CONTRACTOR IS TO VERIFY THE LOCATION, SIZE, AND DEPTH OF EXISTING UTILITIES PRIOR TO TAPPING INTO, CROSSING OR EXTENDING THEM. IF THE PROPOSED WORK POSES A CONFLICT WITH THE EXISTING UTILITIES, THE ENGINEER IS TO BE NOTIFIED PRIOR TO THE CONTRACTOR CONTINUING.
9. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DIMENSIONS, DOOR LOCATIONS, AND ENTRY DETAILS.
10. THE TOWN OF SHERBORN COMMUNITY MAINTENANCE AND DEVELOPMENT DEPARTMENT ARE TO BE NOTIFIED PRIOR TO THE START OF ANY WORK ON NORTH MAIN STREET.
11. NO LEDGE, BOULDERS, OR OTHER UNYIELDING MATERIALS ARE TO BE LEFT WITHIN 6\"/>

SEED AT THE RATE OF 2#/2,000 SF.  
USE THE ABOVE MIX AT THE RATE OF 50#/ACRE AND WITH 1/2 BUSH/ACRE OF WINTER RYE

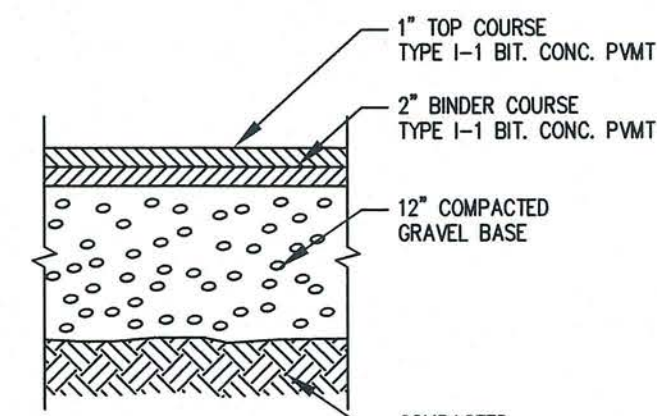
14. ALL DISTURBED AREAS ARE TO BE LOAMED AND SEEDING WITH A MINIMUM OF 4\"/>

15. ALL STUMPS, TOP SOIL, SUB SOIL AND OTHER DELETERIOUS MATERIALS ARE TO BE REMOVED FROM THE PROPOSED BUILDING AND PAVING AREAS.



SEWER CLEANOUT DETAIL  
NOT TO SCALE

DWG #: DET0094



STANDARD BITUMINOUS CONCRETE PAVEMENT  
NOT TO SCALE

DWG #: DET0020



ENGINEERING DESIGN CONSULTANTS, INC.  
32 Turnpike Road  
Southborough, Massachusetts  
(508) 480-0225

SHERBORN VILLAGE  
A  
RESIDENTIAL DEVELOPMENT  
IN  
SHERBORN, MASSACHUSETTS

DETAILS  
#59 NORTH MAIN STREET  
SHERBORN, MASSACHUSETTS

HERITAGE PROPERTIES  
490-B BOSTON POST ROAD  
SUDBURY, MA 01776

FILE NO: 3438  
DETAILS  
DATE: JULY 25, 2017  
PLAN NO: 6 of 6  
6



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ENGINEERING DESIGN CONSULTANTS, INC.'S LIABILITY FOR THIS PLAN IS LIMITED TO THE EXTENT OF ITS FEE LESS THIRD PARTY COSTS.

OWN: B/C  
CITY: B/C  
APP: B/C

WML  
PSB  
PSB

REVISIONS  
0 7/25/17 ISSUED FOR PEER REVIEW  
1 7/25/17 DATE DESCRIPTION



PREPARED BY:

Engineering Design Consultants, Inc.  
32 Turnpike Road  
Southborough, Massachusetts  
(508) 480-0225

PROJECT:

SHERBORN VILLAGE  
A  
RESIDENTIAL DEVELOPMENT  
IN  
SHERBORN, MASSACHUSETTS

TITLE:

STORMWATER POLLUTION PREVENTION PLAN  
#59 NORTH MAIN STREET  
SHERBORN, MASSACHUSETTS

OWNER/APPLICANT:

HERITAGE PROPERTIES  
490-B BOSTON POST ROAD  
SUDBURY, MA 01776

FILE NO: 3438

SMPPP

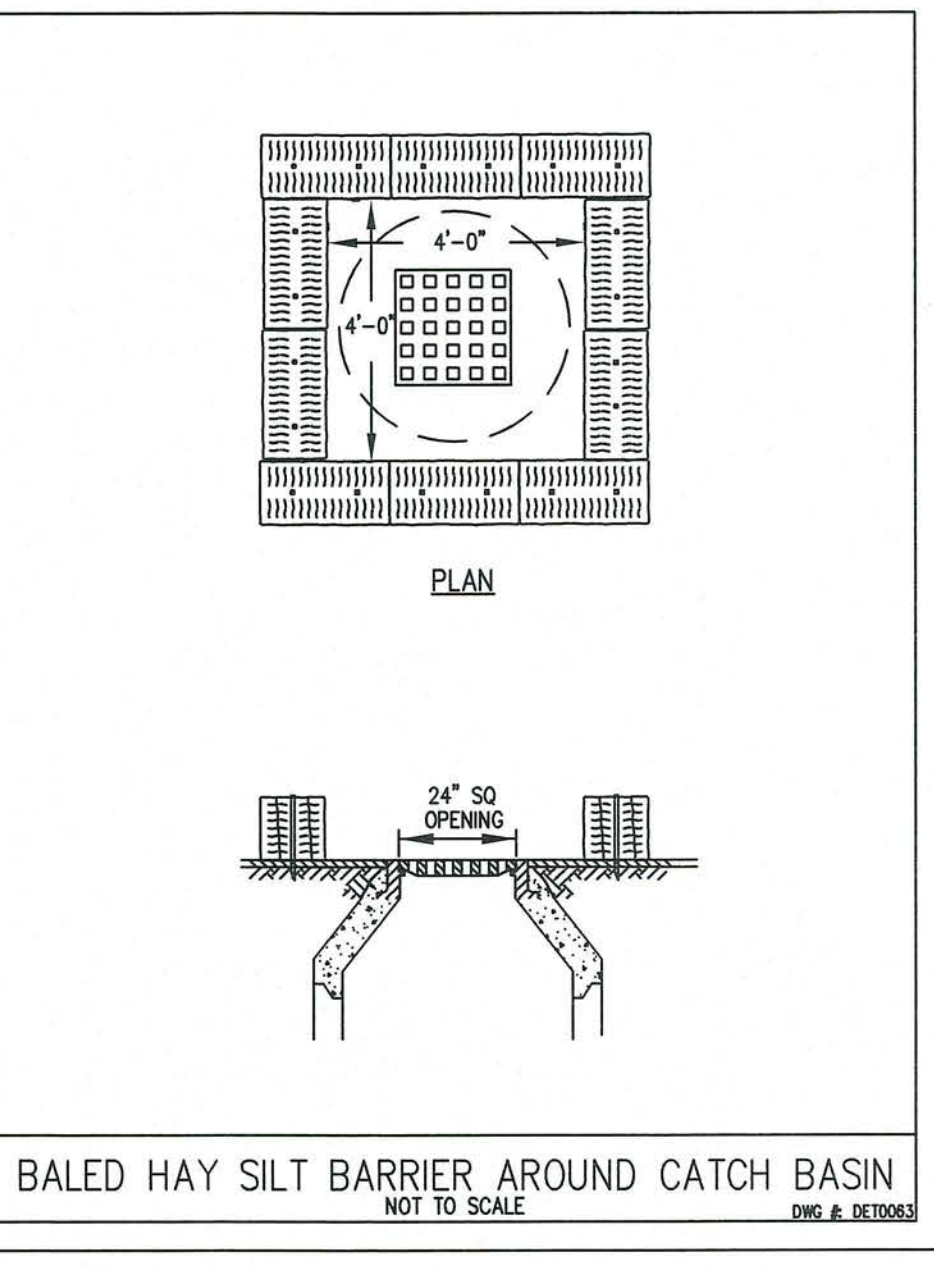
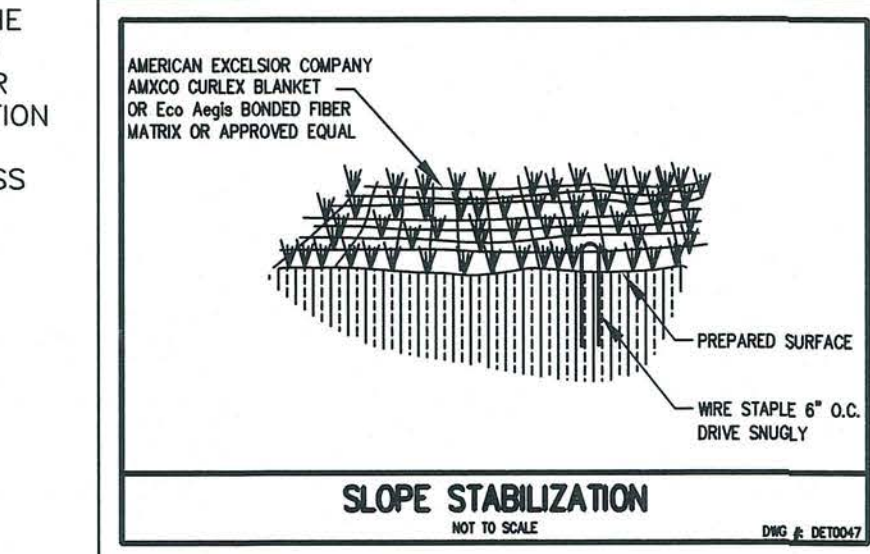
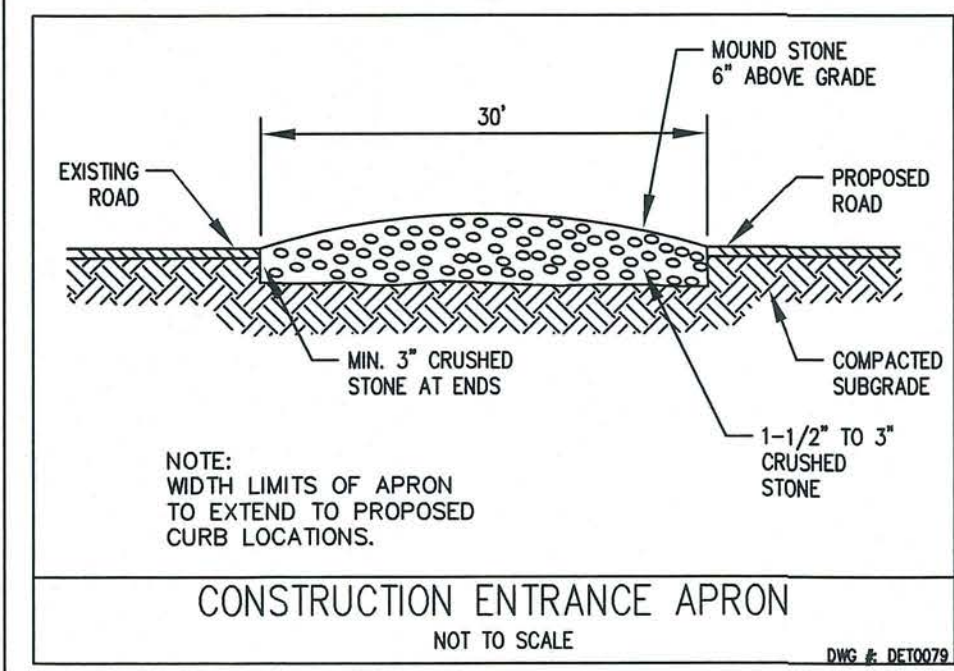
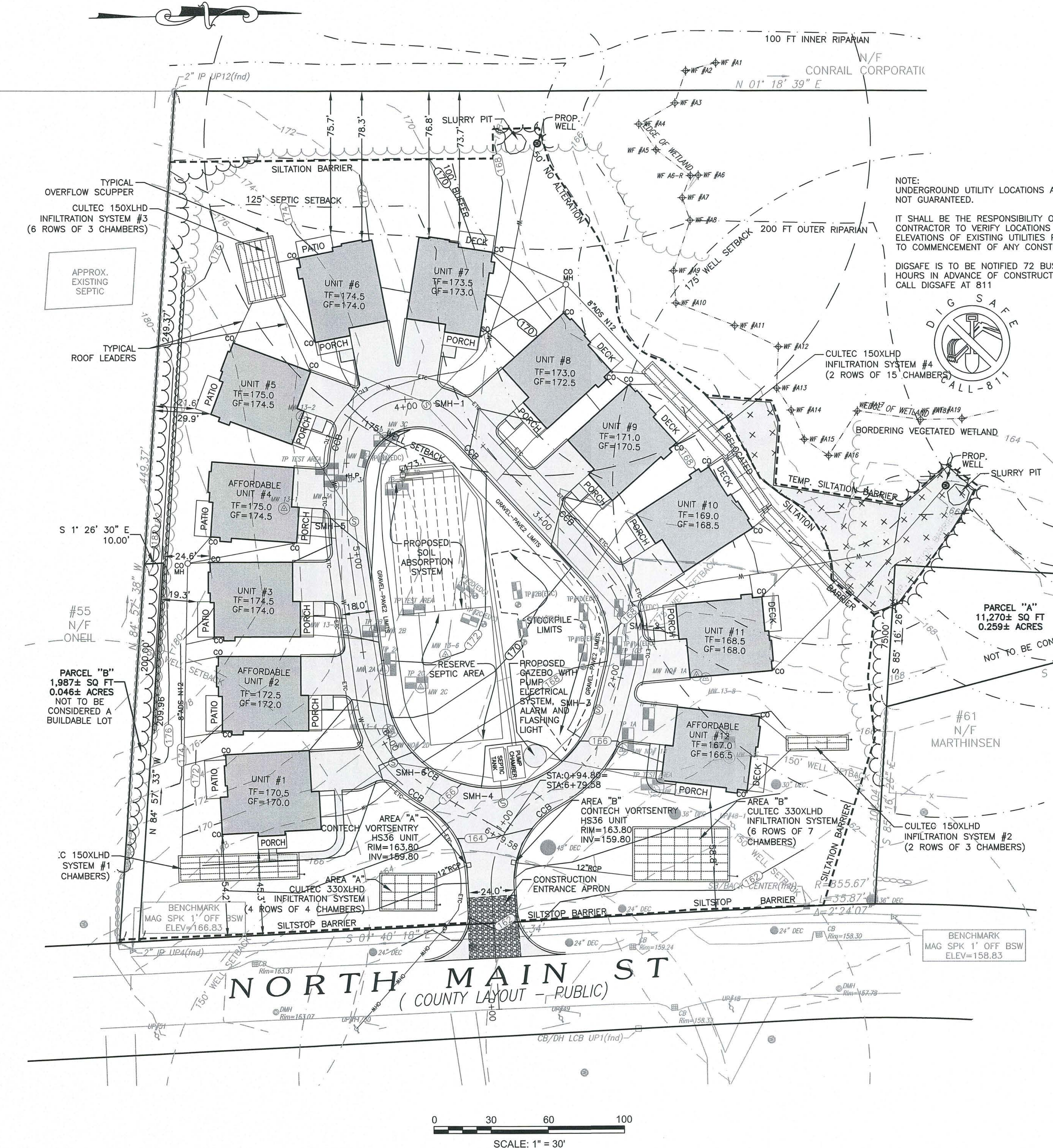
DATE:

JULY 25, 2017

PLAN NO:

1 of 1

1



#### OPERATION AND MAINTENANCE PLAN:

MAJOR O&M PLAN TASKS AND DESCRIPTIONS IS OUTLINED AS FOLLOWS:

##### 1. SCHEDULE OF SHORT-TERM OPERATION AND MAINTENANCE (DURING CONSTRUCTION):

- EROSION CONTROL BARRIER: THE EROSION CONTROL BARRIER SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF CONSTRUCTION AND SHALL BE INSPECTED WEEKLY. THE CONSTRUCTION ENTRANCE APRON SHALL BE REPLACED WHEN DERRIS BECOMES NOTICEABLE ON THE EXISTING PAVEMENT SURFACES OPPOSITE THE CONSTRUCTION SIDE OF THE PROPOSED WORK.
  - CONSTRUCTION ENTRANCE APRON: THE CONSTRUCTION ENTRANCE APRON SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF CONSTRUCTION AND SHALL BE INSPECTED WEEKLY. THE CONSTRUCTION ENTRANCE APRON SHALL BE REPLACED WHEN DERRIS BECOMES NOTICEABLE ON THE EXISTING PAVEMENT SURFACES OPPOSITE THE CONSTRUCTION SIDE OF THE PROPOSED WORK.
  - SLOPE STABILIZATION: THE SLOPE STABILIZATION CONTROLS SHALL BE INSTALLED IMMEDIATELY UPON OBTAINING FINAL GRADES AS SHOWN ON THE PROJECT PLANS. AREAS IN FAILURE SHALL BE RE-GRADED TO FINAL GRADE AND STABILIZED AS NECESSARY.
  - CONSTRUCTION COMPLETION: THE ENTIRE STORM WATER MANAGEMENT SYSTEM SHALL BE INSPECTED UPON COMPLETION OF CONSTRUCTION. PORTIONS OF THE SYSTEM CONTAINING SEDIMENTATION SHALL BE PROPERLY CLEANED AND THE SILT REMOVED.
- ##### 2. MAINTENANCE AGREEMENT/SCHEDULE FOR LONG-TERM OPERATION AND MAINTENANCE (POST CONSTRUCTION)
- OWNER OF THE STORMWATER SYSTEM: \_\_\_\_\_ DATE: \_\_\_\_\_  
OWNERS SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_
  - PERSON RESPONSIBLE FOR FINANCING MAINTENANCE AND EMERGENCY REPAIRS: \_\_\_\_\_
  - THE ESTIMATED ANNUAL MAINTENANCE COST OF THIS STORMWATER MANAGEMENT SYSTEM IS \$5,000.
  - CDS UNIT INSPECTIONS: INSPECTION IS THE KEY TO EFFECTIVE MAINTENANCE AND IS EASILY PERFORMED. POLLUTANT DEPOSITION AND TRANSPORT MAY VARY FROM YEAR TO YEAR, AND REGULAR INSPECTIONS WILL HELP INSURE THAT THE SYSTEM IS CLEANED OUT AT THE APPROPRIATE TIME. AT A MINIMUM, INSPECTIONS SHOULD BE PERFORMED TWICE PER YEAR (I.E. SPRING AND FALL) HOWEVER MORE FREQUENT INSPECTIONS MAY BE NECESSARY WHERE FREQUENT WINTER SANDING OPERATIONS MAY LEAD TO RAPID ACCUMULATIONS. THE VISUAL INSPECTION SHOULD ASCERTAIN THAT THE SYSTEM COMPONENTS ARE IN WORKING ORDER AND THAT THERE ARE NO BLOCKAGES OR OBSTRUCTIONS TO INLET AND/OR SEPARATION SCREEN. THE INSPECTION SHOULD ALSO IDENTIFY ACCUMULATIONS OF HYDROCARBONS, TRASH, AND SEDIMENT IN THE SYSTEM. MEASURING POLLUTANT ACCUMULATION CAN BE DONE WITH A CALIBRATED DIPSTICK, TAPE MEASURE OR OTHER MEASURING INSTRUMENT. IT IS USEFUL AND OFTEN REQUIRED AS PART OF A PERMIT TO KEEP A RECORD OF EACH INSPECTION. (SEE THE INSPECTION AND MAINTENANCE GUIDE PROVIDED BY THE MANUFACTURER, ATTACHED TO THE DRAINAGE CALCULATIONS SUBMITTED WITH THIS PLAN)
  - CLEANING OF THE CDS UNITS SHOULD BE DONE WHEN SEDIMENT ACCUMULATES AT A DEPTH OF TWO FEET WITHIN THE UNIT AND SHOULD BE DONE DURING DRY WEATHER CONDITIONS WHEN NO FLOW IS ENTERING THE SYSTEM. CLEANOUT WITH A VACUUM TRUCK IS GENERALLY THE MOST EFFECTIVE AND CONVENIENT METHOD OF EXCAVATING POLLUTANTS FROM THE SYSTEM. SIMPLY REMOVE THE MANHOLE COVERS AND INSERT THE VACUUM HOSE INTO THE SUMP. THE SYSTEM SHOULD BE COMPLETELY DRAINED DOWN AND THE SUMP FULLY EVACUATED OF SEDIMENT. THE AREA OUTSIDE THE SCREEN SHOULD BE PUMPED OUT ALSO IF POLLUTANT BUILD-UP EXISTS IN THIS AREA.
  - INFILTRATION CHAMBERS: CONSTRUCTED INFILTRATION CHAMBERS ARE PROVIDED WITH INSPECTION PORTS THAT AFFORD VISUAL ACCESS TO THE CHAMBERS. PERIODIC SMALL-SCALE MAINTENANCE AT REGULAR INTERVALS TO EVALUATE AND REMOVE ANY ACCUMULATED SEDIMENT MAY BE NECESSARY, HOWEVER WITH PROPER MAINTENANCE OF THE CDS UNITS AND MAINTAINING A HEALTHY LAWN SHOULD MINIMIZE AND POTENTIALLY ELIMINATE THE TRANSPORT OF SEDIMENT INTO THE INFILTRATION CHAMBERS. INSPECT THE INFILTRATION CHAMBERS TWICE ANNUALLY AT THE SAME TIME AS THE CATCH BASINS AND REMOVE ANY SEDIMENT ACCUMULATIONS. IF STORMWATER IS REMAINING IN THE CHAMBERS, IT IS A SIGN THE BOTTOM IS CLOGGED. THE CHAMBERS SHOULD BE REMOVED AS WELL AS THE STONE BED, THE MATERIAL BELOW SHOULD BE SCARIFIED AND THE STONE BED AND CHAMBERS REPLACED.
  - INSPECTION REPORTS: SEE #12 UNDER, "CONSTRUCTION PERIOD POLLUTION PREVENTION AND EROSION AND SEDIMENTATION CONTROL PLAN", FOR REPORTS. REPORTS SHALL BE MAINTAINED FOR SUBMISSION TO THE DIRECTOR OF COMMUNITY MAINTENANCE AND DEVELOPMENT ANNUALLY FOR A PERIOD OF THREE YEARS.  
IF MAINTENANCE OR REPAIRS ARE NECESSARY, A DOCUMENT SHALL BE PROVIDED TO THE DIRECTOR OF COMMUNITY MAINTENANCE AND DEVELOPMENT LISTING THE COMPONENT THAT WAS MAINTAINED/REPAIRED AND WHEN THE REPAIR WAS COMPLETED.
  - ILLUOT DISCHARGES: ALL ILLUOT DISCHARGES TO ANY PART OF THE STORMWATER SYSTEM ARE STRICTLY PROHIBITED. IF AN ACCIDENTAL SPILL OCCURS (OIL AND/OR CHEMICAL SPILLS, RADIATION EMERGENCIES, AND BIOLOGICAL DISCHARGES) THE NATIONAL RESPONSE CENTER MUST BE CALLED AT 1-800-424-8802.

#### CONSTRUCTION PERIOD POLLUTION PREVENTION AND EROSION AND SEDIMENTATION CONTROL PLAN:

- NAME OF PERSON AND ENTITY RESPONSIBLE FOR PLAN COMPLIANCE: \_\_\_\_\_
- PROJECT MANAGER OF SHERBORN VILLAGE IS THE CONTACT PERSON. CONTACT NUMBER IS \_\_\_\_\_
- CONSTRUCTION PERIOD POLLUTION PREVENTION MEASURES: AS DEFINED WITHIN.
- EROSION AND SEDIMENTATION CONTROL PLAN DRAWINGS: REFER TO PLAN VIEW FOR EROSION CONTROL MEASURE LOCATIONS.
- DETAIL DRAWINGS AND SPECIFICATIONS FOR EROSION CONTROL: REFER TO INDIVIDUAL DETAILS FOR INSTALLATION OF EROSION CONTROL MEASURES.
- VEGETATION PLANNING: THE PROPOSED CONSTRUCTION ACTIVITIES WILL BE PERFORMED WITHIN THE LIMITS OF WORK AREA (SILTATION BARRIER BEING THE LIMIT OF WORK). THE FINAL PROPOSED SURFACE WILL CONSIST OF PAVING, TREES/SHRUBS/MULCH AND GRASSED AREAS (REFER TO SEQUENCING BELOW).
- SITE DEVELOPMENT PLAN: REFER TO PLAN VIEW & APPROVED SITE PLANS.
- CONSTRUCTION SEQUENCING PLAN: THE FOLLOWING CONSTRUCTION SEQUENCE SHALL BE FOLLOWED:
  - EROSION CONTROL PROVISIONS IN PLACE AND INSPECTED PRIOR TO ANY AND ALL CONSTRUCTION.
  - EROSION CONTROL MEASURES AT EXISTING CATCH BASINS IN NORTH MAIN STREET.
  - CLEAR AND GRUB WOODED AREAS; REMOVE ALL UNUSABLE MATERIAL FROM SITE.
  - STRIP AND STOCKPILE TOPSOIL. PROVIDE TEMPORARY SEEDING OF STOCKPILE, PLACE SILTATION BARRIER AROUND STOCKPILE AND PLACE TARPS OVER THE STOCKPILE IF NECESSARY.
  - ROUGH GRADE LOT AND DRIVES. REMOVE UNUSABLE MATERIAL FROM SITE.
  - INSTALL ALL UTILITIES & INFILTRATIVE DRAINAGE SYSTEMS. PROTECT THE INFILTRATION AREA FROM STORMWATER RUNOFF. NO SILT OR TOPSOIL IS TO BE DEPOSITED IN THIS AREA, THE INFILTRATION CAPACITY OF THE NATIVE SOIL MUST BE PROTECTED.
  - PERFORM BINDER BASE PAVING OPERATIONS.
  - CONSTRUCTION OF BUILDING UNITS.
  - EROSION CONTROL MEASURES AT NEW DRAINAGE INLET UNITS.
  - FINAL GRADING.
  - LOAM AND SEED ALL DISTURBED AREAS & LANDSCAPE.
  - PERFORM FINAL PAVING OPERATIONS.
  - REMOVE EROSION CONTROL PROVISIONS UPON STABILIZATION AND FINAL SITE INSPECTION.
- SEQUENCING OF EROSION AND SEDIMENTATION CONTROLS: EROSION CONTROL PROVISIONS IN PLACE AND INSPECTED PRIOR TO ANY AND ALL CONSTRUCTION.
- OPERATION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROLS: THE CONTRACTOR/OPERATOR IS RESPONSIBLE FOR MAINTAINING A STABLE SITE. THE OPERATOR SHALL EMPLOY EROSION AND SEDIMENTATION CONTROLS TO PREVENT EROSION AND SEDIMENT RELEASES BEYOND THE SEDIMENT BARRIER. THE EROSION CONTROL MEASURES INDICATED ARE THE MINIMUM THAT SHOULD BE EMPLOYED. THE CONTRACTOR/OPERATOR SHALL EMPLOY ADDITIONAL CONTROLS AS THE ON-SITE CONSTRUCTION EXPERIENCE DICTATES.
- INSPECTION SCHEDULE:
  - INSPECTIONS SHALL TAKE PLACE AT LEAST EVERY 7 CALENDAR DAYS OR WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 0.25" OF RAIN OR GREATER.
  - INSPECTION FREQUENCY MAY BE REDUCED TO ONCE A MONTH IF THE ENTIRE SITE IS TEMPORARILY STABILIZED OR RUNOFF IS UNLIKELY DUE TO WINTER CONDITIONS.
  - ESTIMATE OF THE BEGINNING OF EACH STORM EVENT THAT OCCURRED, DURATION OF EACH STORM EVENT, APPROXIMATE AMOUNT OF RAINFALL FOR EACH STORM EVENT, AND WHETHER ANY DISCHARGES HAVE OCCURRED.
  - DISCHARGES THAT OCCUR AT THE TIME OF INSPECTION.
  - LOCATION OF DISCHARGES OR SEDIMENTATION FROM THE SITE.
  - LOCATION OF "BMPs" THAT NEED TO BE MAINTAINED.
  - LOCATION OF "BMPs" THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE FOR A PARTICULAR LOCATION.
  - LOCATIONS WHERE ADDITIONAL "BMPs" ARE NEEDED THAT DID NOT EXIST AT THE TIME OF INSPECTION; AND CORRECTIVE ACTION REQUIRED INCLUDING ANY CHANGES TO THIS PLAN.
  - ALL REPORTS SHALL BE SUBMITTED TO THE DIRECTOR OF COMMUNITY MAINTENANCE AND DEVELOPMENT ON A MONTHLY BASIS DURING CONSTRUCTION PERIOD, AND MAINTAINED FOR THREE YEARS AFTER FINAL CONSTRUCTION PROJECT CLOSEOUT IS COMPLETE.
- MAINTENANCE SCHEDULE: REPORTS SUMMARIZING THE INSPECTIONS SHOULD BE KEPT AS PART OF THIS CONSTRUCTION PERIOD POLLUTION PREVENTION AND SOIL EROSION AND SEDIMENTATION CONTROL PLAN. AT A MINIMUM THE INSPECTION REPORTS SHALL INCLUDE:
  - INSPECTION DATE;
  - NAME, TITLE AND QUALIFICATIONS OF THE PERSONNEL MAKING THE INSPECTION;
  - WEATHER CONDITIONS AT THE TIME OF INSPECTION AND SINCE THE PREVIOUS INSPECTION, INCLUDING A BEST ESTIMATE OF THE BEGINNING OF EACH STORM EVENT THAT OCCURRED, DURATION OF EACH STORM EVENT, APPROXIMATE AMOUNT OF RAINFALL FOR EACH STORM EVENT, AND WHETHER ANY DISCHARGES HAVE OCCURRED;
  - DISCHARGES THAT OCCUR AT THE TIME OF INSPECTION;
  - LOCATION OF DISCHARGES OR SEDIMENTATION FROM THE SITE;
  - LOCATION OF "BMPs" THAT NEED TO BE MAINTAINED;
  - LOCATION OF "BMPs" THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE FOR A PARTICULAR LOCATION;
  - LOCATIONS WHERE ADDITIONAL "BMPs" ARE NEEDED THAT DID NOT EXIST AT THE TIME OF INSPECTION; AND CORRECTIVE ACTION REQUIRED INCLUDING ANY CHANGES TO THIS PLAN.
  - ALL REPORTS SHALL BE SUBMITTED TO THE DIRECTOR OF COMMUNITY MAINTENANCE AND DEVELOPMENT ON A MONTHLY BASIS DURING CONSTRUCTION PERIOD, AND MAINTAINED FOR THREE YEARS AFTER FINAL CONSTRUCTION PROJECT CLOSEOUT IS COMPLETE.