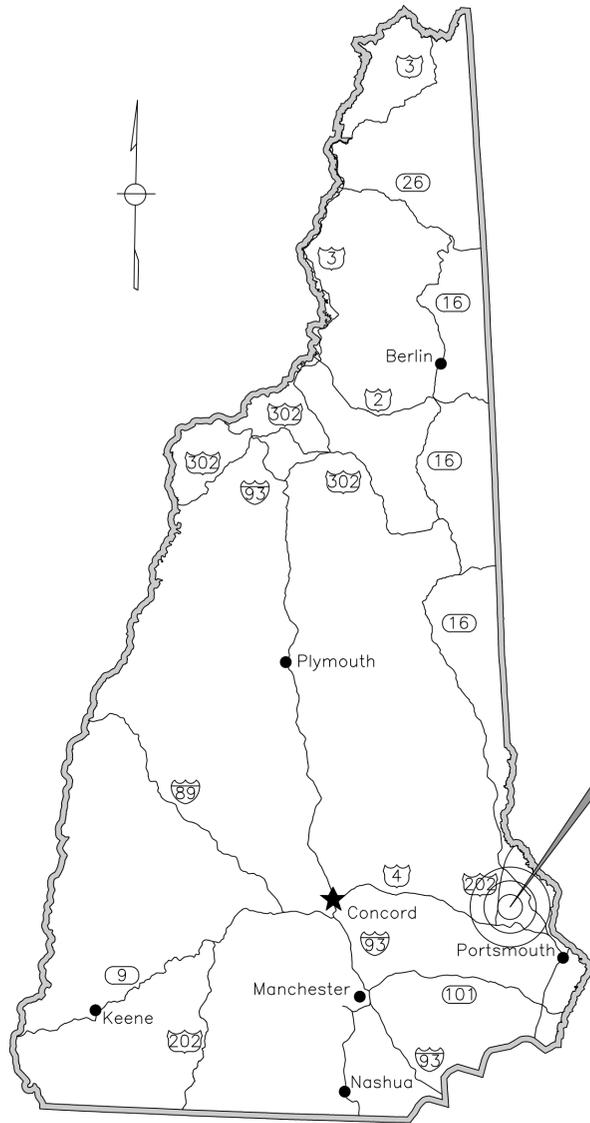


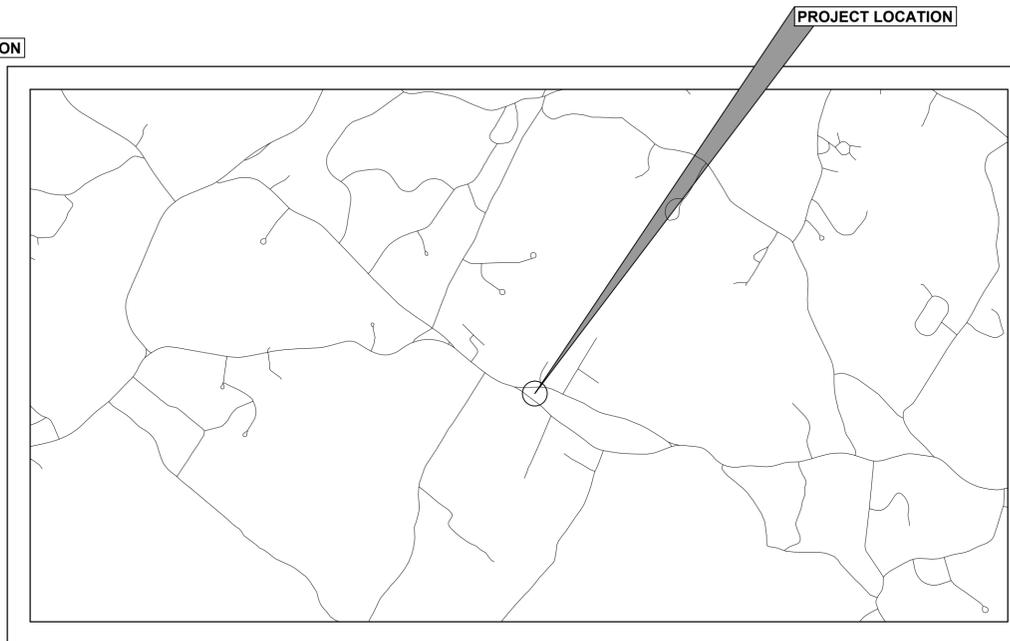
BARRINGTON TOWN OFFICES RAMSDELL LANE BARRINGTON, NH

TAX MAP/LOT: 233/000044

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PRELIMINARY PLANS**



VICINITY MAP
NOT TO SCALE



LOCATION MAP
SCALE: 1" = 2,000'

EXISTING	LEGEND	PROPOSED
---650---	MAJOR CONTOUR	---650---
---648---	MINOR CONTOUR	---648---
---SF---	SILT FENCE	---SF---
---D---	CATCH BASIN	---D---
---D---	DRAIN PIPE	---D---
---D---	DRAIN MANHOLE	---D---
---S---	SEWER MANHOLE	---S---
---H---	HANDICAP PARKING SPACE	---H---
---V---	VERTICAL GRANITE CURB (VGC)	---V---
---I---	INTEGRATED CONCRETE CURB (ICC)	---I---
---U---	UTILITY POLE	---U---
---OHW---	OVERHEAD WIRES	---OHW---
---UE&T---	UNDERGROUND ELECTRIC AND TELECOMMUNICATIONS	---UE&T---
---R---	RETAINING WALL	---R---
---D---	DRY HYDRANT	---D---
---S---	SIGN	---S---
---W---	WELL	---W---
---B---	BUILDING	---B---

APPROVED BY BARRINGTON PLANNING BOARD :

CHAIRMAN _____ DATE _____

DRAWING LIST		
SHEET NUMBER	DRAWING	TITLE
1	G1.1	COVER
2	EC	EXISTING CONDITIONS
3	D1.1	DEMOLITION PLAN
4	C1.1	SITE LAYOUT PLAN
5	C1.2	GRADING AND DRAINAGE PLAN
6	C1.3	UTILITY PLAN
7	C1.4	DETAILS I
8	C2.1	SEPTIC SYSTEM PLAN AND PROFILE
9	C2.2	SEPTIC SYSTEM SECTIONS AND DETAILS

<p>18 CONSTITUTION DR. SUITE 8 BEDFORD, NH 03110 TEL: (603) 637-1043 FAX: (603) 783-7101 www.dubois-king.com</p> <p>ENGINEERING • PLANNING • MANAGEMENT • DEVELOPMENT © Copyright 2015 Dubois & King Inc.</p>	PREPARED BY:	DRAWN BY:	DATE:
		MEF	FEB. 2015
	CHECKED BY:	MTO	PROJECT NO.:
			322819
	PROJECT ENG:	JAA	DRAW NO.:
			G1.1
SHEET 1 OF 9			

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NO.	DATE	DESCRIPTION	BY	CK'D

TOWN OF
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BARRINGTON
TOWN HALL

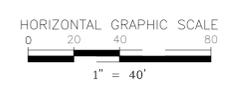
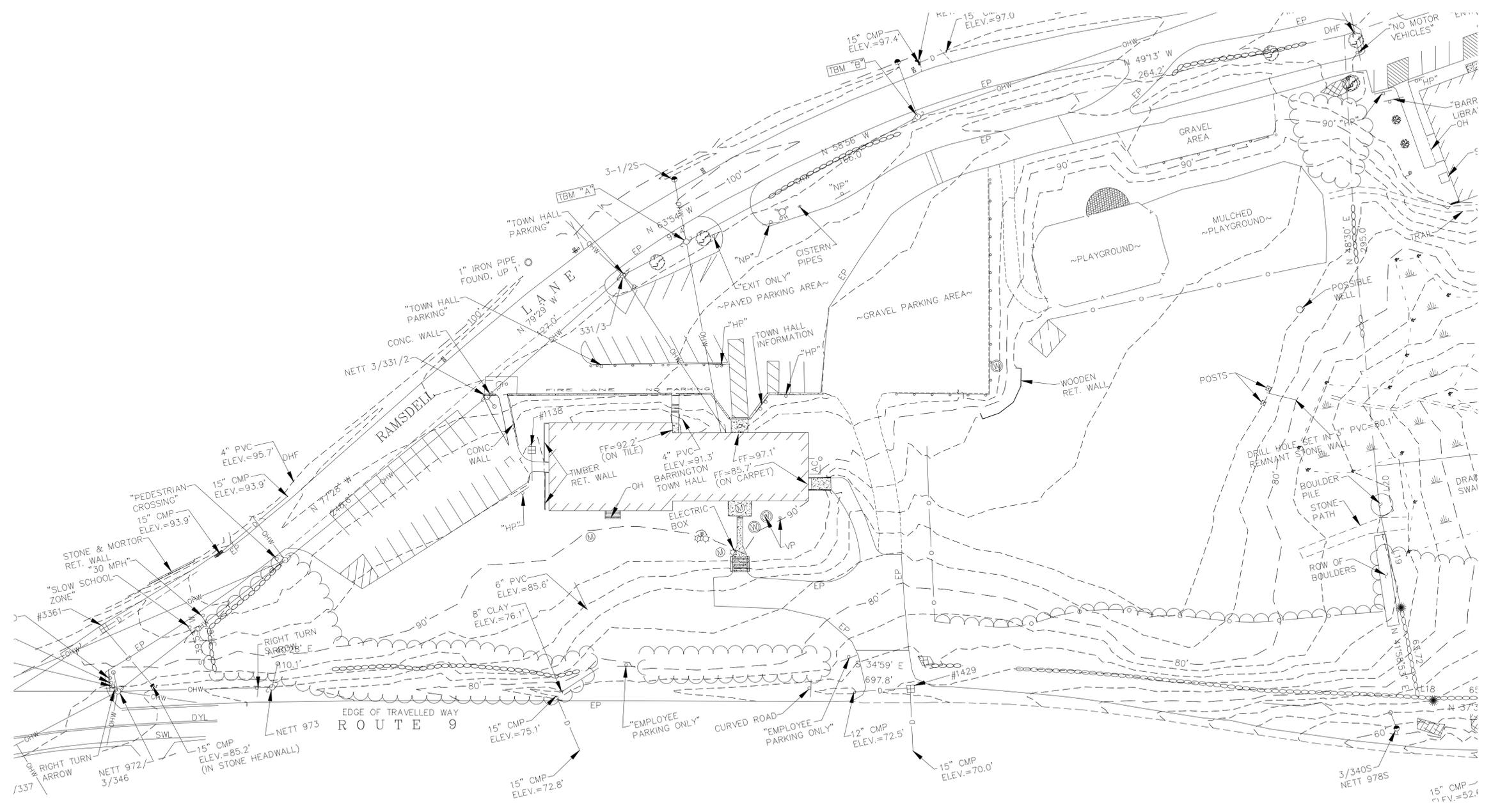
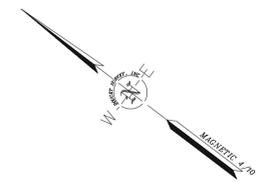
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EXISTING
CONDITIONS

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JAA	XXXXXX
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SHEET NUMBER

EC



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SHEET TITLE

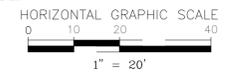
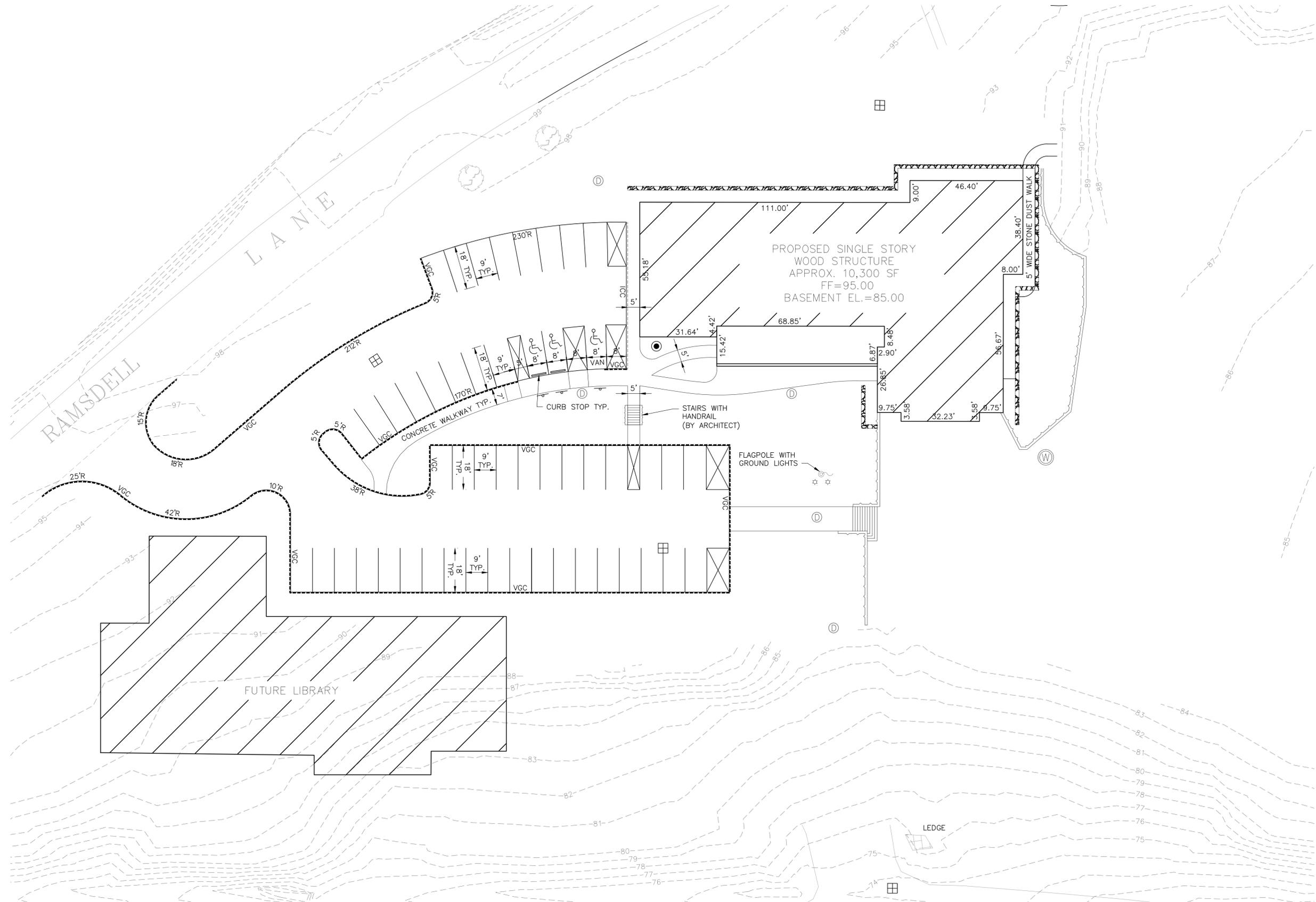
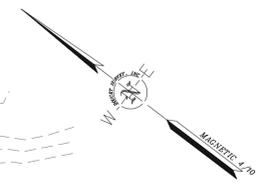
SITE LAYOUT

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SHEET NUMBER

C1.1

SHEET 4 OF 9



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TOWN OF
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BARRINGTON
TOWN HALL

SHEET TITLE

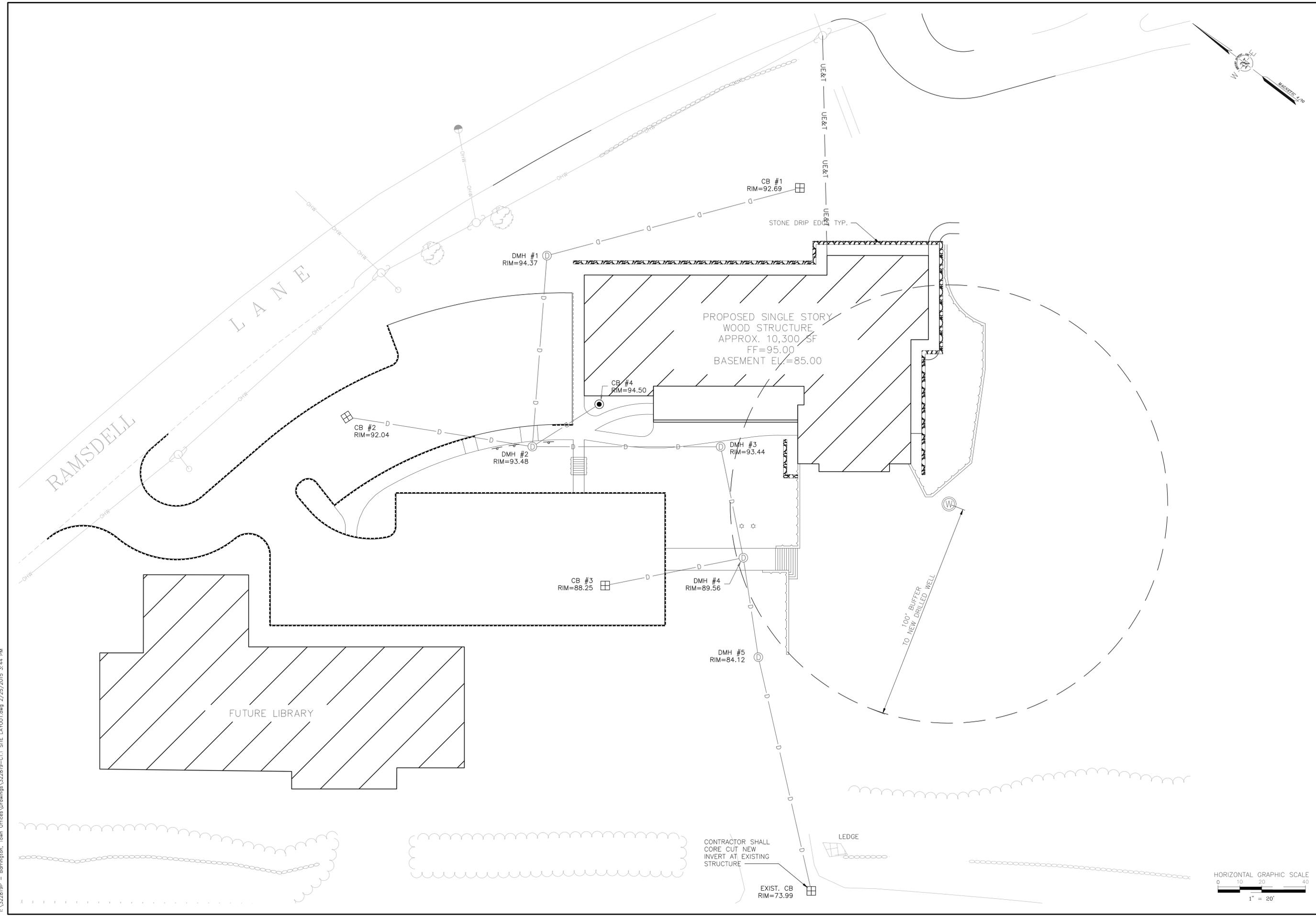
UTILITY PLAN

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MEF	FEB. 2015
CHECKED BY	D&K PROJECT #
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PROJ. ENG.	D&K ARCHIVE #
MTO	

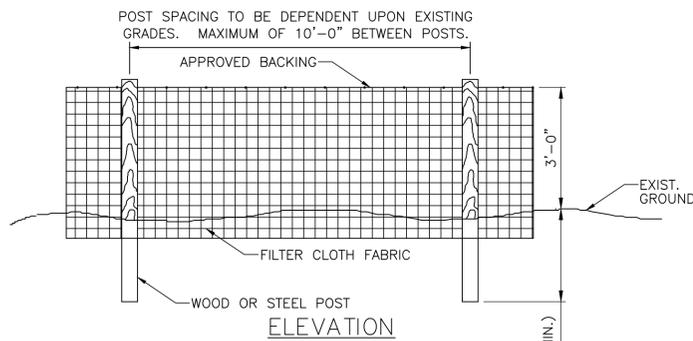
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C1.3

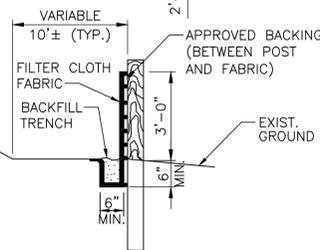
SHEET 6 OF 9



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ELEVATION

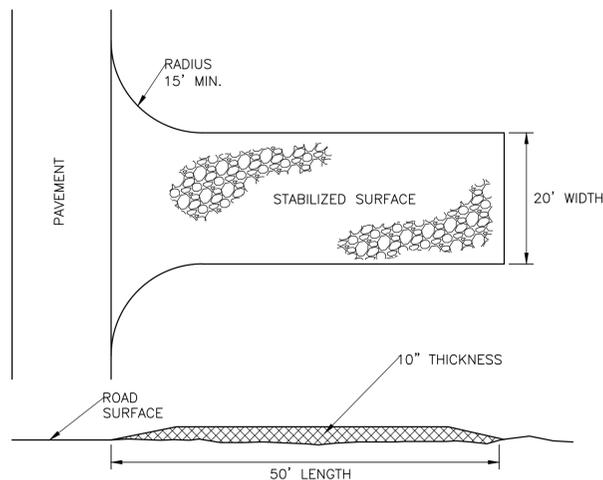


SECTIONAL VIEW

SILT FENCE NOTES:

1. PREASSEMBLED SILT FENCING AS MANUFACTURED FOR THIS PURPOSE IS ACCEPTABLE IN LIEU OF A FIELD CONSTRUCTED SILT FENCE UPON APPROVAL BY THE ENGINEER.
2. FILTER CLOTH SHALL HAVE APPROVED BACKING OR A BUILT-IN REINFORCED STRUCTURE, AS RECOMMENDED BY THE MANUFACTURER TO SUPPORT THE FILTER CLOTH.
3. SILT FENCE SHALL BE CONSTRUCTED AT LOCATIONS AS SHOWN ON PLANS OR WHERE DIRECTED BY THE ENGINEER.
4. THE CONTRACTOR SHALL MAINTAIN THE SILT FENCES DURING THE LIFE OF THE CONTRACT. SILT ACCUMULATIONS SHALL BE REMOVED AND THE FENCES SHALL REMAIN IN PLACE.
5. THE CONTRACTOR SHALL BE REQUIRED TO PREVENT SOIL EROSION FROM LEAVING THE CONSTRUCTION AREA.
6. AFTER AN ACCEPTABLE STAND OF TURF HAS BEEN ESTABLISHED, THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE SILT FENCE TO AN ACCEPTABLE LOCATION OFF OF AIRPORT PROPERTY.

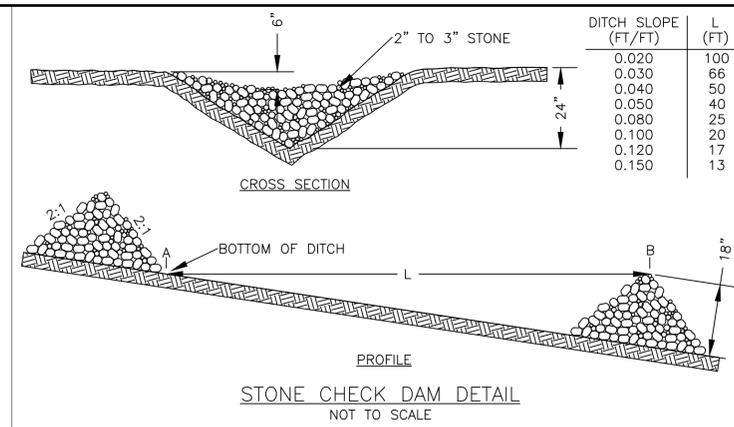
STANDARD TEMPORARY SILT FENCE
(TEMPORARY, TO BE REMOVED PRIOR TO FINAL PAVING)
NOT TO SCALE



MAINTENANCE:

1. IN THE EVENT THAT MUD OR SOIL PARTICLES CLOG THE VOIDS OF THE CONSTRUCTION ENTRANCE, THE CONSTRUCTION ENTRANCE SHOULD BE TOPDRESSED WITH NEW STONE. COMPLETE REPLACEMENT OF THE CONSTRUCTION ENTRANCE MAY BE REQUIRED.
2. IF WASH FACILITIES ARE USED, SEDIMENTATION TRAPS SHOULD BE CLEANED AS OFTEN AS NECESSARY TO ASSURE THAT ADEQUATE PERFORMANCE OF SEDIMENTATION COLLECTION AND STORAGE IS AVAILABLE.

STABILIZED CONSTRUCTION ENTRANCE
(TEMPORARY, TO BE REMOVED PRIOR TO FINAL PAVING)
NOT TO SCALE



STONE CHECK DAM DETAIL
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FAX: (866) 783-7101
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PROFESSIONAL SEAL

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TOWN OF BARRINGTON, NEW HAMPSHIRE

BARRINGTON TOWN HALL

SHEET TITLE
DETAILS I

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SHEET NUMBER
C1.4

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TOWN OF
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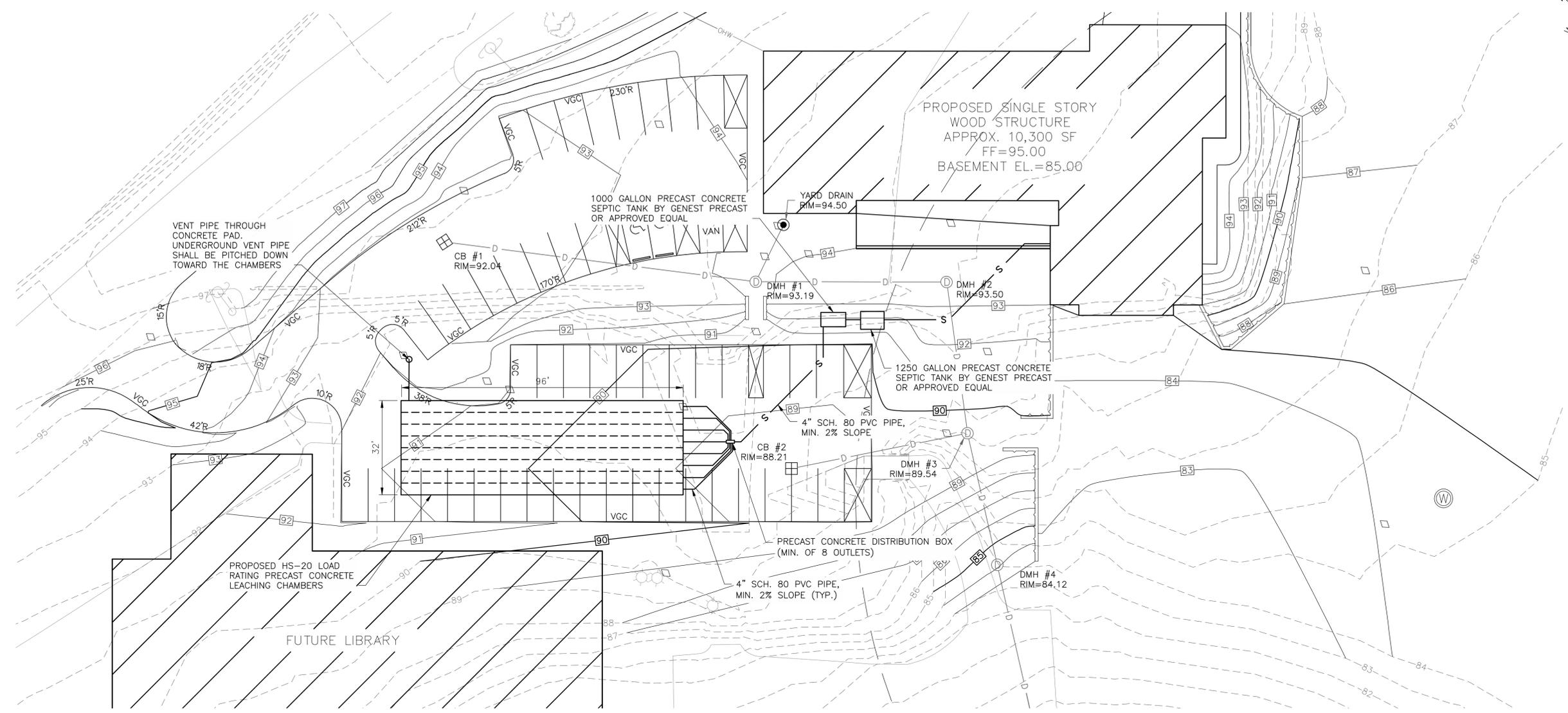
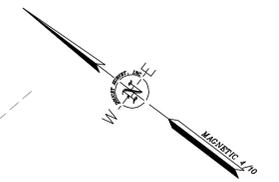
BARRINGTON
 TOWN HALL

SHEET TITLE
 WASTEWATER PLAN
 AND PROFILE

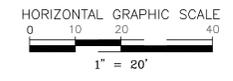
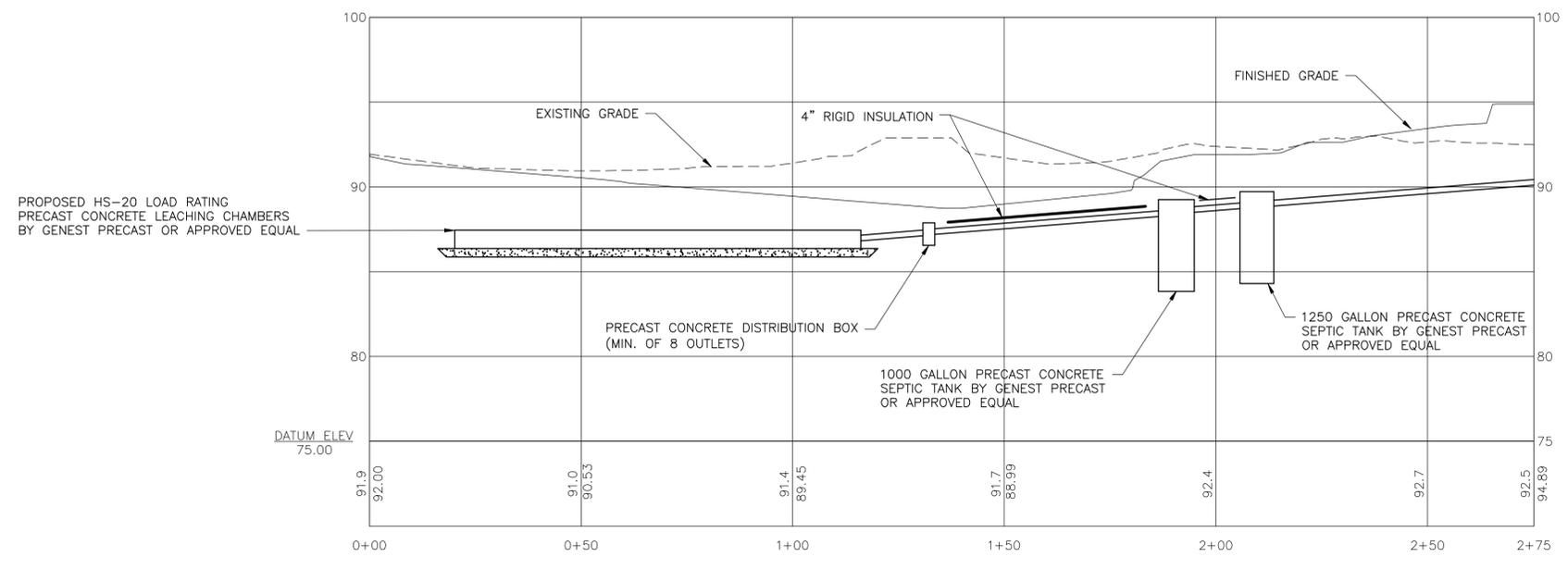
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SHEET NUMBER

C2.1



NOTE:
 THE PROPOSED WASTEWATER SYSTEM HAS BEEN SIZED BASED ON
 ASSUMED PERCOLATION RATE AND SOILS INFO FROM NRCS WEB SOIL
 SURVEY. PRIOR TO PERMITTING AND CONSTRUCTION, TEST PITS AND
 PERC TEST WILL BE REQUIRED.



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PLANS**

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TOWN OF
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BARRINGTON
TOWN HALL

SHEET TITLE
**WASTEWATER
DETAILS**

DRAWN BY ZDC	DATE FEB. 2015
CHECKED BY JAA	D&K PROJECT # XXXXXX
PROJ. ENG. MTO	D&K ARCHIVE #

SHEET NUMBER

C2.2

DESIGN AND CONSTRUCTION NOTES:

- THIS SYSTEM IS DESIGNED FOR A DESIGN FLOW OF 1075 GALLONS PER DAY.
- THE WASTEWATER SYSTEM CONSISTS OF A SEPTIC TANK, DISTRIBUTION BOX AND PRECAST CONCRETE CHAMBER DISPOSAL FIELD.
- THE SEPTIC TANK SHALL BE A 2,160 GALLON PRECAST CONCRETE TANK BY L.E. WEEDS OF NEWPORT NH OR APPROVED EQUAL. THE TANK SHALL BE WATERTIGHT AND STRUCTURALLY SOUND. AN EFFLUENT FILTER ON THE OUTLET OF THE TANK, WHICH WILL PREVENT THE PASSAGE OF SOLIDS LARGER THAN 1/8-INCH IN SIZE TO THE LEACHFIELD SHALL BE INSTALLED IN THE SEPTIC TANK.
- ANY FILL MATERIAL IN PROXIMITY OF THE PROPOSED DISPOSAL FIELD SHALL BE MEDIUM TO COURSE TEXTURED SAND, WITH AN EFFECTIVE SIZE OF 0.25 TO 2.00mm, NO GRATER THAN 5% PASSING THE NUMBER 200 SIEVE, AND NO PARTICLES LARGER THAN 3/4 INCH.

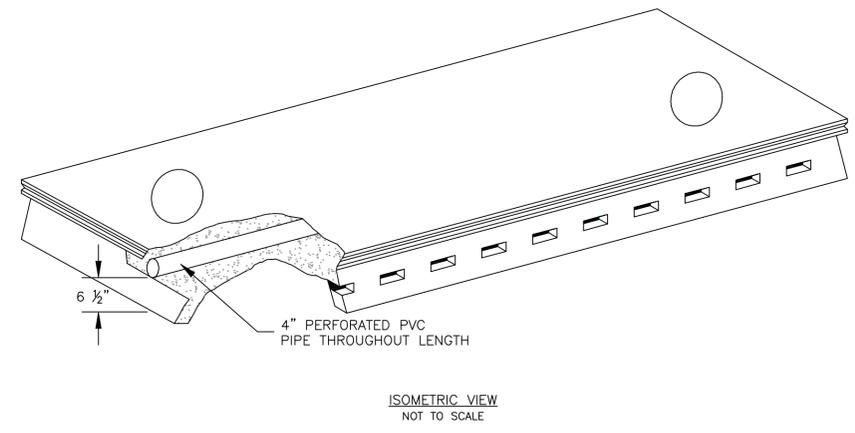
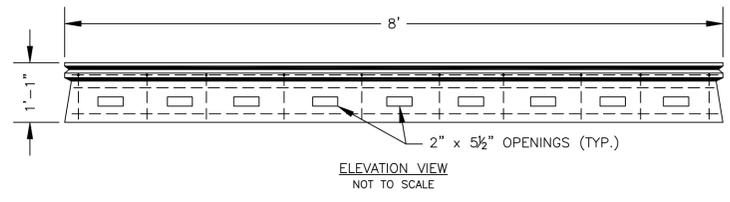
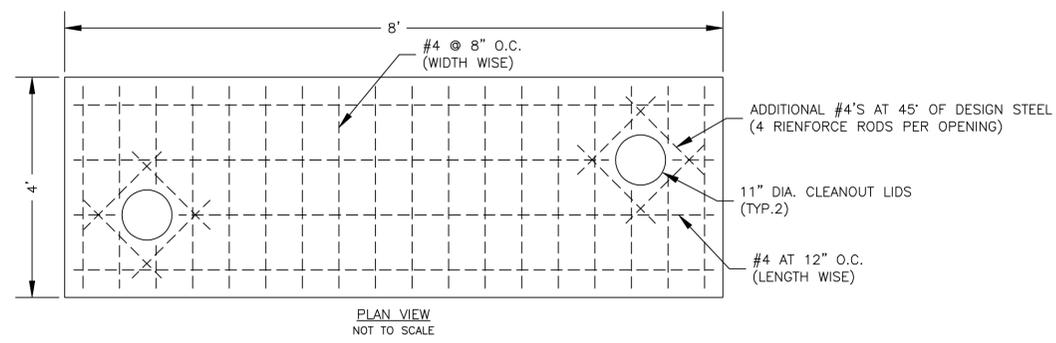
OPERATION AND MAINTENANCE NOTES:

- SEPTIC TANK EFFLUENT FILTER IS TO BE INSPECTED AND CLEANED EVERY SIX MONTHS. SEPTIC TANK SHOULD BE PUMPED OUT AND CLEANED EVERY THREE YEARS.
- OWNER IS WARNED THAT GARBAGE DISPOSALS, LAUNDRY BLEACH, ANTI-BACTERIAL SOAP, HAZARDOUS MATERIALS, AND HOUSEHOLD CLEANERS WILL REDUCE THE LIFE OF SEPTIC SYSTEM.
- IT IS THE OWNERS'S RESPONSIBILITY TO BECOME FAMILIAR WITH THESE PLANS IN REGARDS TO THE OVERALL PROJECT AND FUTURE USE OF THE PROPERTY. CARE SHALL BE TAKEN TO MAINTAIN THE SYSTEM REPLACEMENT AREA UNDISTURBED AND OBSERVE SETBACK REQUIREMENTS FOR ANY FUTURE CONSTRUCTION.

BASIS OF DESIGN (HS-20 LOAD RATED CHAMBER SYSTEM):

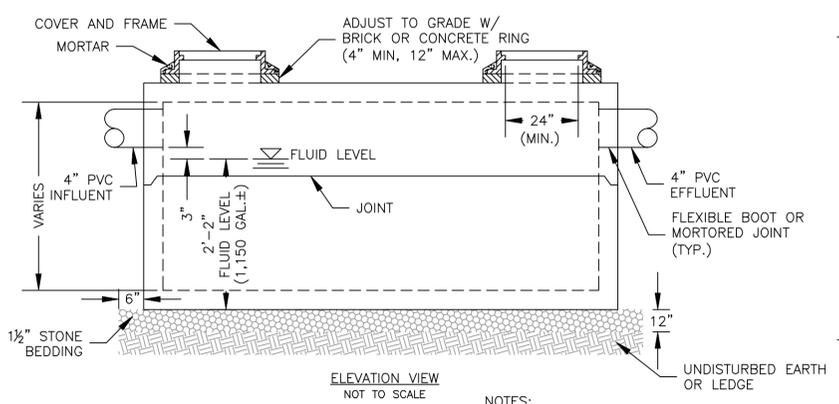
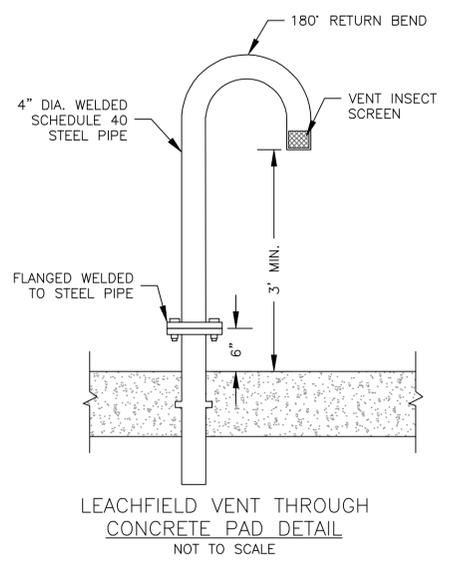
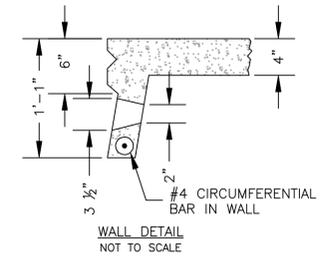
- DESIGN PARAMETERS OBTAINED FROM THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES' CODE OF ADMINISTRATIVE RULES FOR INDIVIDUAL SEWAGE DISPOSAL SYSTEMS (Env-Ws 1000).
- DESIGN FLOW:
BASED ON TABLE 1008-1 (UNIT DESIGN FLOW FIGURES).

15 GPD/EMPLOYEE	X 20 EMPLOYEES	= 300 GALLONS/DAY
5 GPD/TRANSIENT VISITORS	X 60 VISITORS	= 300 GALLONS/DAY
5 GPD/PER SEAT OF CAPACITY	X 85 SEAT CAPACITY	= 425 GALLONS/DAY
		1025 GALLONS/DAY OF SANITARY FLOW
 - SEPTIC TANK SIZING:
1025 GPD X 2 = 2050 GAL SEPTIC STORAGE (MIN)
USE: 1,250 GALLON AND A 1,000 GALLON PRECAST CONCRETE SEPTIC TANKS
 - SEPTIC TANK EFFLUENT FILTER:
USE A SEPTIC TANK EFFLUENT FILTER SYSTEM FOR REDUCTION OF SUSPENDED SOLIDS, BODs AND OIL & GREASE IN THE EFFLUENT WASTE STREAM FROM THE TANK TO THE ABSORPTION TRENCH DISPOSAL FIELD.
 - PERCOLATION RATE:
ASSUME PERCOLATION RATE OF 30 MIN/INCH
 - LOADING RATE FOR ABSORPTION CHAMBERS:
BASED ON TABLE 1014-1 FOR COMMERCIAL LOADING FOR 100 GALLONS PER DAY WITH A PERCOLATION RATE OF 30 MINUTES PER INCH IS 290 SQUARE-FEET, SO TOTAL AREA IS 2937 SQUARE-FEET.
 - SYSTEM TYPE:
USE CHAMBER SYSTEM LEACH FIELD.
 - SYSTEM DESIGN:
CHAMBER AREA - USE 8 ROWS OF 12 CHAMBERS 4'x8'.



- NOTES:**
- CHAMBER SECTION SHALL MEET HS-20 LOADING AND SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM C 478, LATEST REVISIONS.
 - DESIGN FILL SHALL BE 2'.
 - CONCRETE SHALL 4,000 PSI AT 28 DAYS, WHILE CEMENT SHALL BE TYPE III PER ASTM C-150.
 - REINFORCING fy SHALL BE 60,000 PSI, PER ASTM A-615,
 - ADDITIONAL REINFORCING AROUND CLEANOUT OPENINGS EQUAL TO THE BARS INTERRUPTED, HALF EACH SIDE, WITH #4 DIAGONAL TRIM BARS.

**SANITARY 4'x8' HS-20
LEACHING CHAMBER DETAIL**
NOT TO SCALE



- NOTES:**
- PRECAST SECTIONS SHALL BE 6" THICK WITH 0.12 SQ.IN/FT. AREA OF STEEL REINFORCEMENT OR 8" THICK UNREINFORCED.
 - USE PRECAST CONCRETE 1000 AND 1250 GALLON SEPTIC TANK AS PER GENEST PRECAST OR APPROVED EQUAL

SEPTIC TANK DETAIL
NOT TO SCALE

