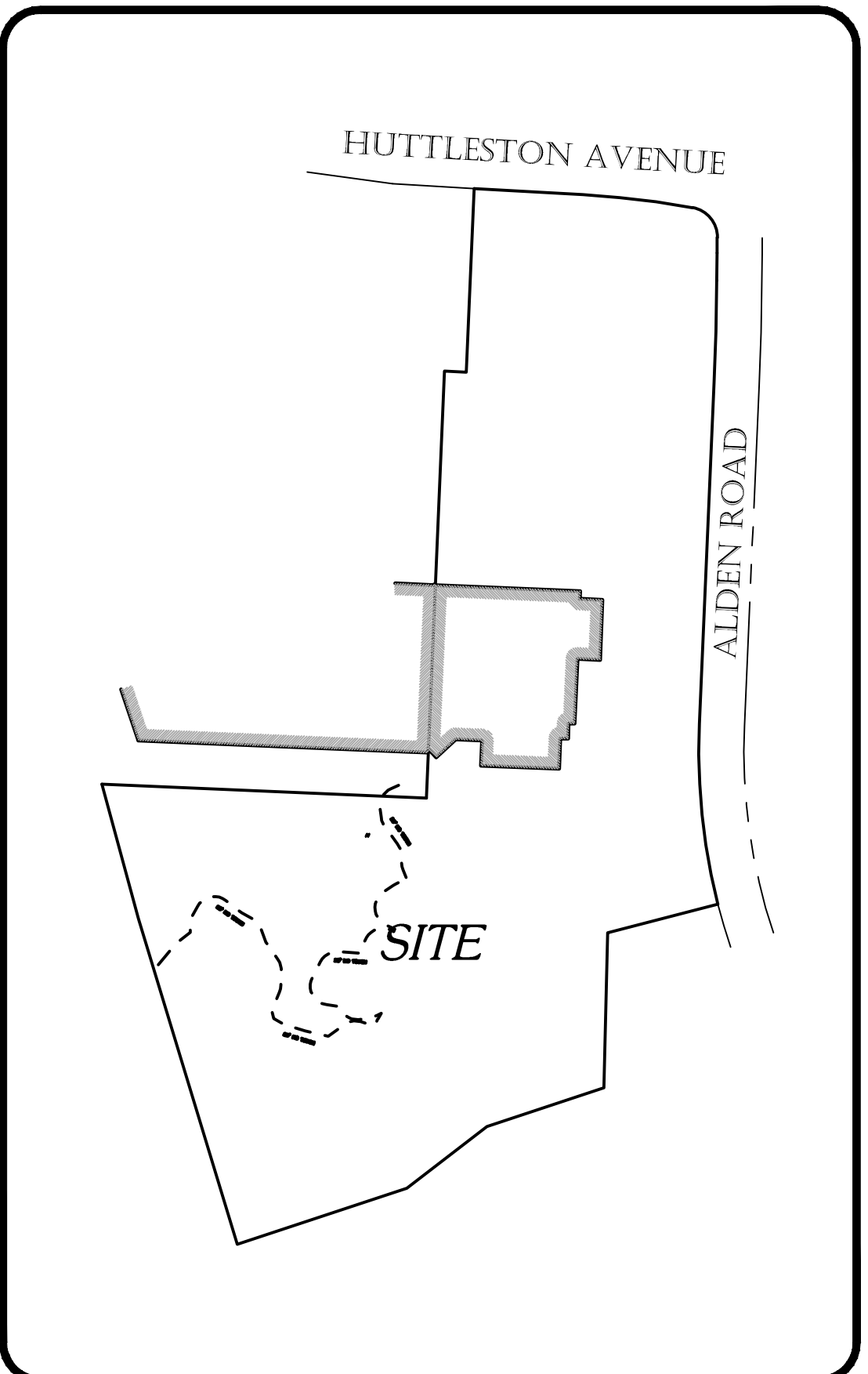
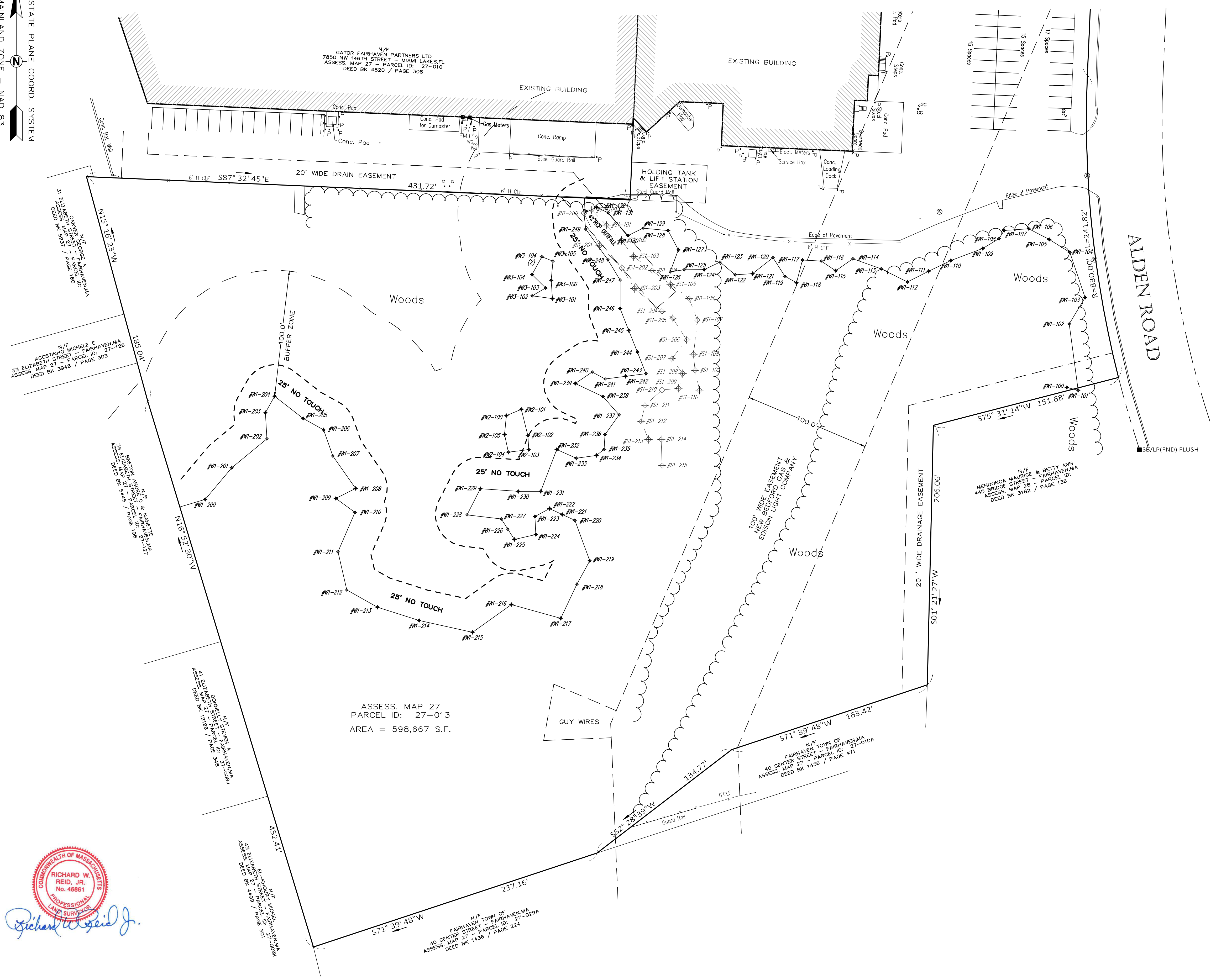


MA STATE PLANE COORD. SYSTEM
MAINLAND ZONE - NAD 83



LOCUS
SCALE: 1"=200'

NOTES

- HORIZONTAL DATUM:
MASSACHUSETTS STATE PLANE - MAINLAND ZONE NAD83 (2011) EPOCH 2010.00 - US FEET

VERTICAL DATUM:
NORTH AMERICAN VERTICAL DATUM OF 1988 (GEOID 12B) - US FEET
- ALL ON-THE-GROUND OBSERVATIONS WERE PERFORMED USING LEICA TS12 (3") ROBOTIC TOTAL STATIONS.
- THIS SURVEY AND PLAN ARE BASED UPON AN ACTUAL ON THE GROUND INSTRUMENT SURVEY PERFORMED FEBRUARY, 2021.
- WETLANDS DELINEATED BY STEPHEN CHMIEL, WETLAND SCIENTIST, IN JANUARY, 2021.

LINETYPE LEGEND

---	EASEMENTS
---	PROPERTY LINE
---	RIGHT OF WAY
---	FENCE - METAL
---	GUARDRAIL - STEEL
---	WETLAND LINE

LEGEND

IR/CAP(set)	IRON ROD W/ CAP SET
CB/DH(fnd)	CONCRETE BOUND DRILL HOLE FOUND
STK(set)	WOODEN STAKE SET ON PROPERTY LINE

REFERENCES

MCZ REALTY, LLC
DEED BOOK 11949 PAGE 331
PLAN BOOK 97 PAGE 112

COMMONWEALTH OF MASSACHUSETTS
RICHARD W. REID, JR.
No. 46861
PROFESSIONAL LAND SURVEYOR

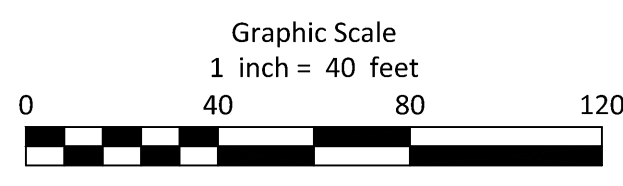
ASSESS. MAP 27
PARCEL ID: 27-013
AREA = 598,667 S.F.

REVISIONS:

REV #	DATE	DESCRIPTION
1	6/29/21	ADDED W3 FLAGS
0	4/27/21	ISSUED FOR REVIEW
		UNUSABLE

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PREPARED BY:
LIGHHOUSE LAND SURVEYING, LLC
27 JEFFERSON STREET - TAUNTON, MASSACHUSETTS
Tel. 508 - 824 - 6609
website: www.lighthouselandsurveying.com

PROJECT:
14 PLAZA WAY
(BRISTOL COUNTY - NORTH DISTRICT)
FAIRHAVEN, MASSACHUSETTS

TITLE:
WETLAND LOCATION
PLAN OF LAND

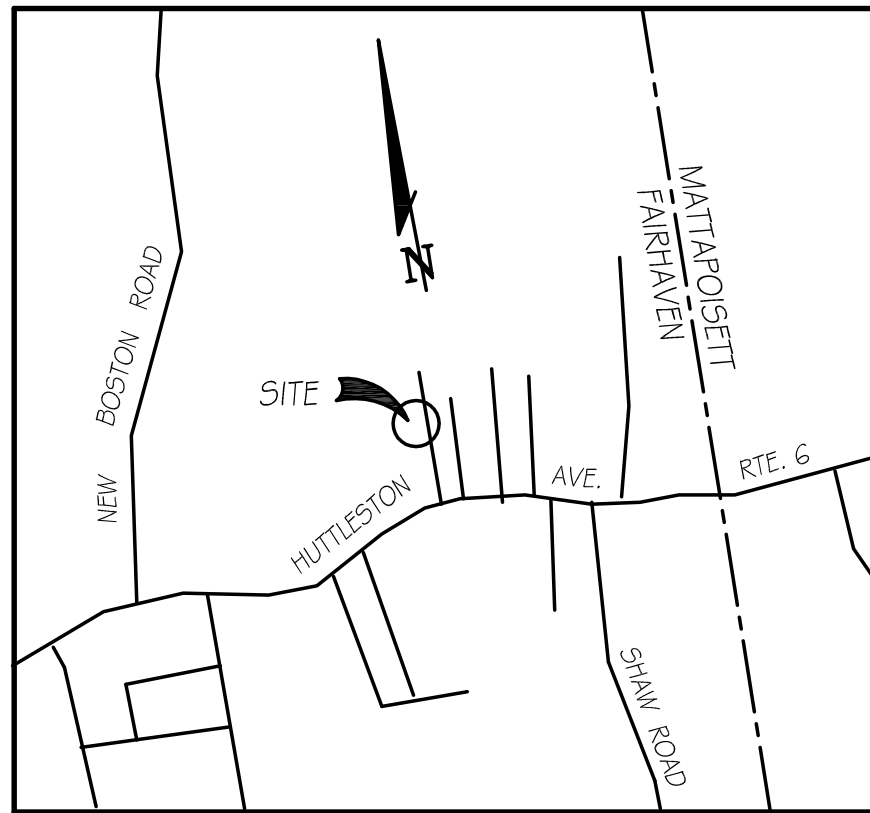
PREPARED FOR:
MCZ REALTY, LLC
P.O. BOX 241
MANHASSET NY, 11030

DATE:
APRIL 27, 2021

SHEET NO:
1

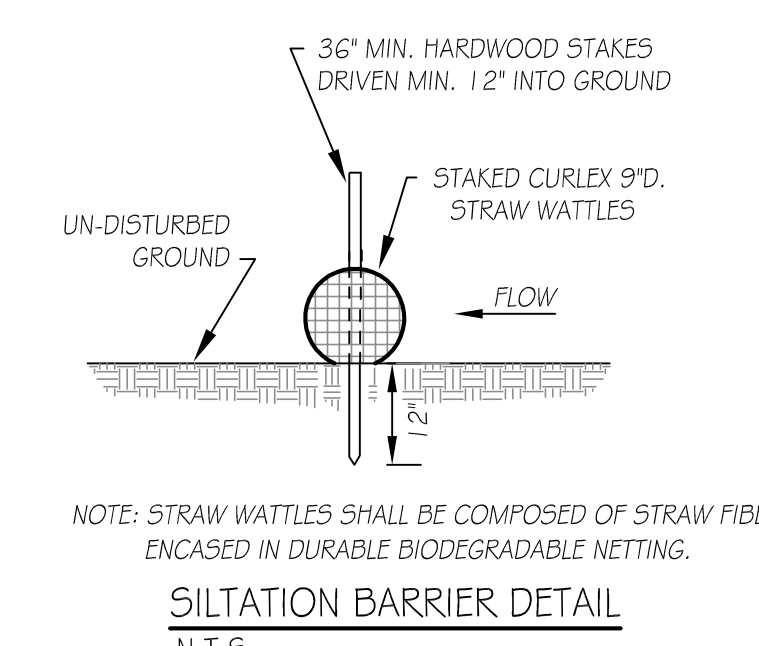
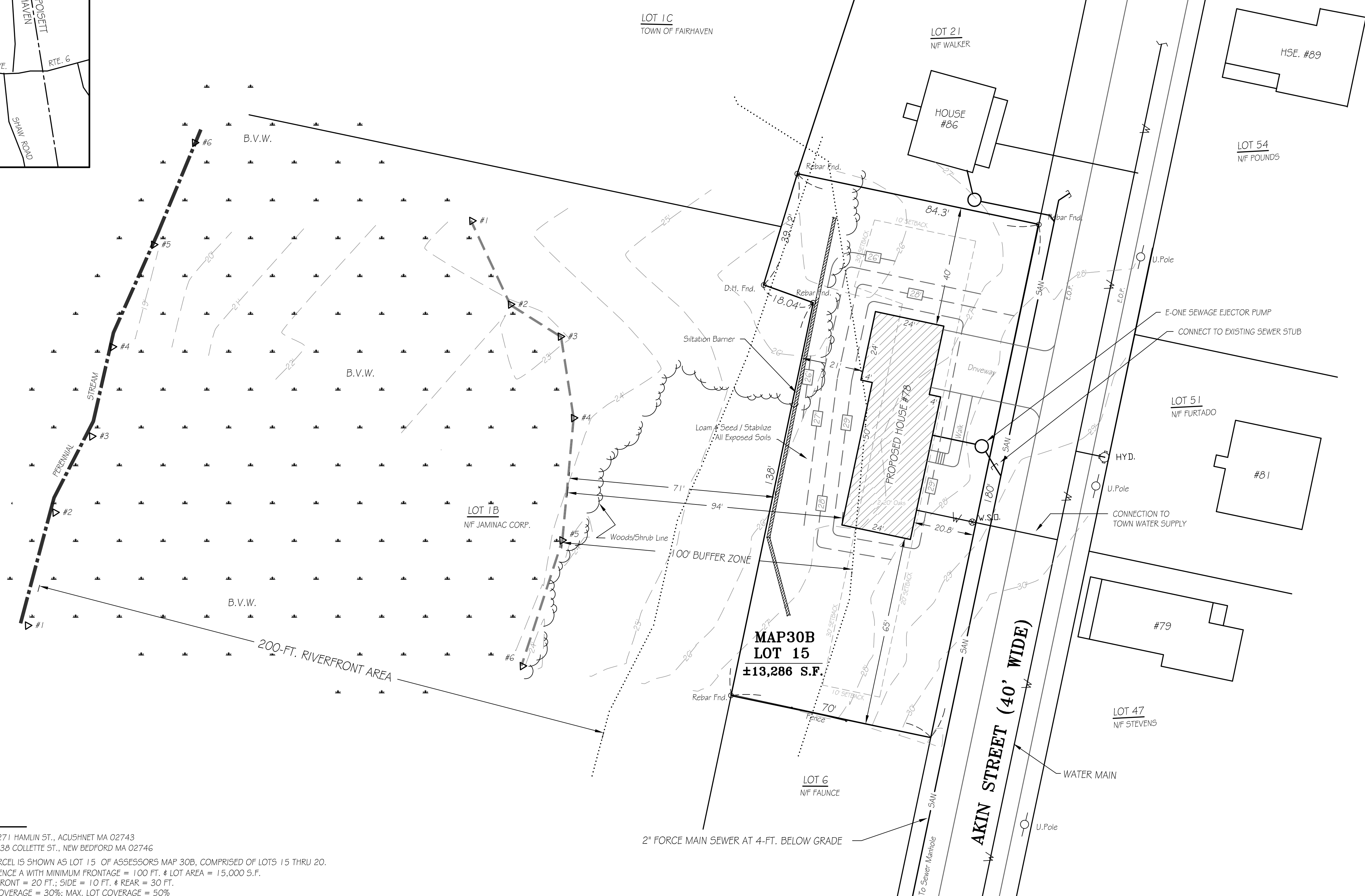
OF **1**

MCZ-PLAZA-WAY-WETBASE.DWG



LOCUS PLAN

1 INCH = 2000 FT. ±

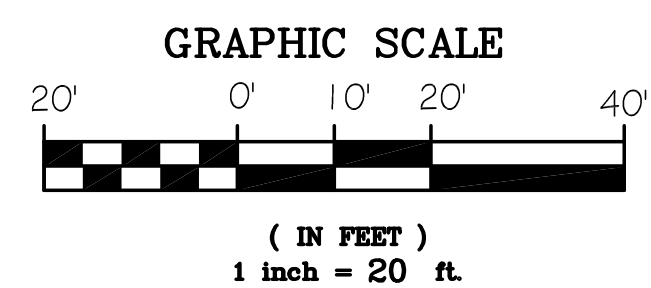


GENERAL NOTES:

- APPLICANT: PETER ARRUDA, 271 HAMLIN ST., ACUSHNET MA 02743
- OWNER: DANIEL POUNDS, 238 COLLETTE ST., NEW BEDFORD MA 02746
- NOTE 'A': THE SUBJECT PARCEL IS SHOWN AS LOT 15 OF ASSESSORS MAP 30B, COMPRISED OF LOTS 15 THRU 20.
- NOTE 'B': ZONING IS RESIDENCE A WITH MINIMUM FRONTAGE = 100 FT. & LOT AREA = 15,000 S.F. SETBACKS ARE: FRONT = 20 FT.; SIDE = 10 FT. & REAR = 30 FT. MAX. BUILDING COVERAGE = 30%; MAX. LOT COVERAGE = 50% PROPOSED BUILDING COVERAGE = 1,776 S.F. / 13,286 S.F. = 13.4% PROPOSED LOT COVERAGE = (1,776 S.F. + 626 S.F.) / 13,286 S.F. = 18.1%
- NOTE 'C': THE DWELLING SHOWN HEREON DOES NOT LIE WITHIN A SPECIAL FLOOD HAZARD AREA AS DELINEATED ON F.E.M.A. COMMUNITY PANEL NO. 25005C0413F DATED JULY 7, 2009.
- NOTE 'D': NOTIFY DIG-SAFE CENTER, LOCAL UTILITIES AND FAIRHAVEN B.P.W. 72 HOURS PRIOR TO START OF WORK
- NOTE 'E': WETLANDS DELINEATION WAS PERFORMED BY SABATIA, INC.

SITE PLAN

SCALE: 1" = 20 FT.

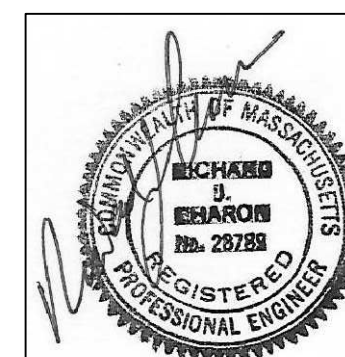


LEGEND:

- EXISTING CONTOURS:
- PROPOSED CONTOURS:
- EDGE OF WETLANDS:
- LIMIT OF BUFFER ZONE:
- LIMITS OF F.E.M.A. ZONES:
- WATER SUPPLY:
- SANITARY SEWER:
- SPOT ELEVATIONS:
- TEST PIT LOCATION:
- SEPTIC TANK:
- DELINEATION FLAG:

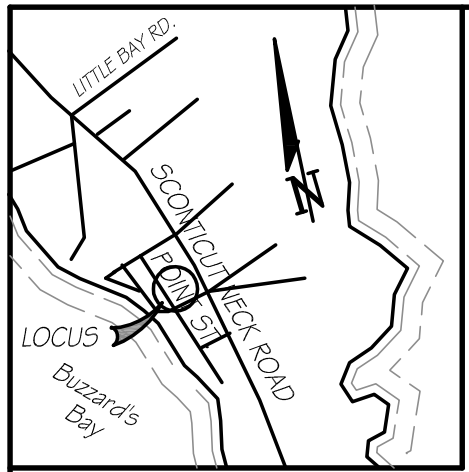
**PLAN OF SITE & SEWER CONNECTION
FOR PROPOSED RESIDENCE**
PREPARED FOR
PETER ARRUDA, BUILDER
78 AKIN STREET
FAIRHAVEN, MASS.

CAI Charon Associates, Inc.
Consulting Engineers
323 Neck Road - Rochester, MA 02770
Tel: 508-763-8362 Fax: 508-763-9582

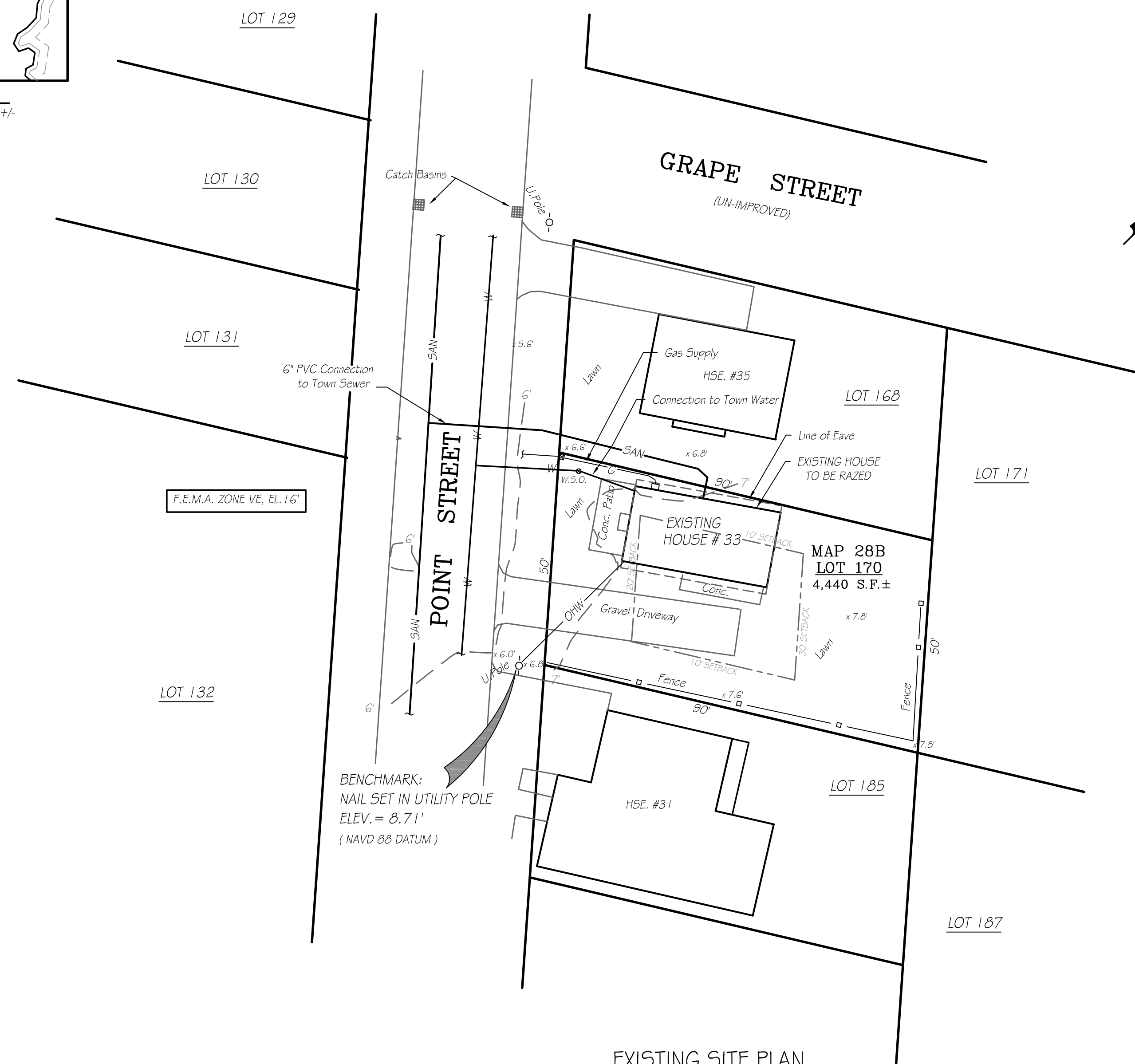


SCALE: AS NOTED
DATE: APRIL 29, 2021
REV. 1: APRIL 30, 2021
REV. 2: MAY 14, 2021

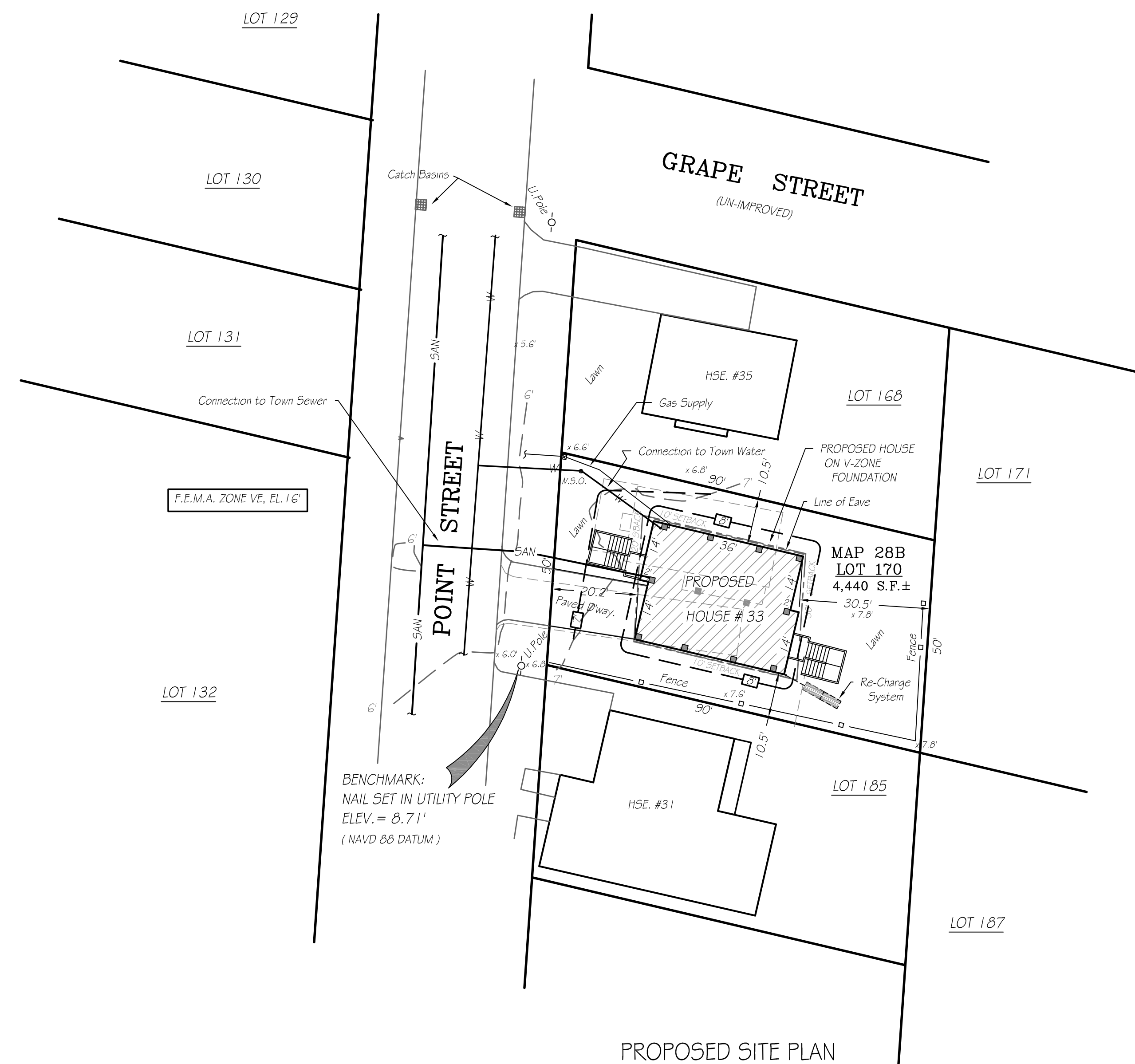
DWG. NO.
L-1



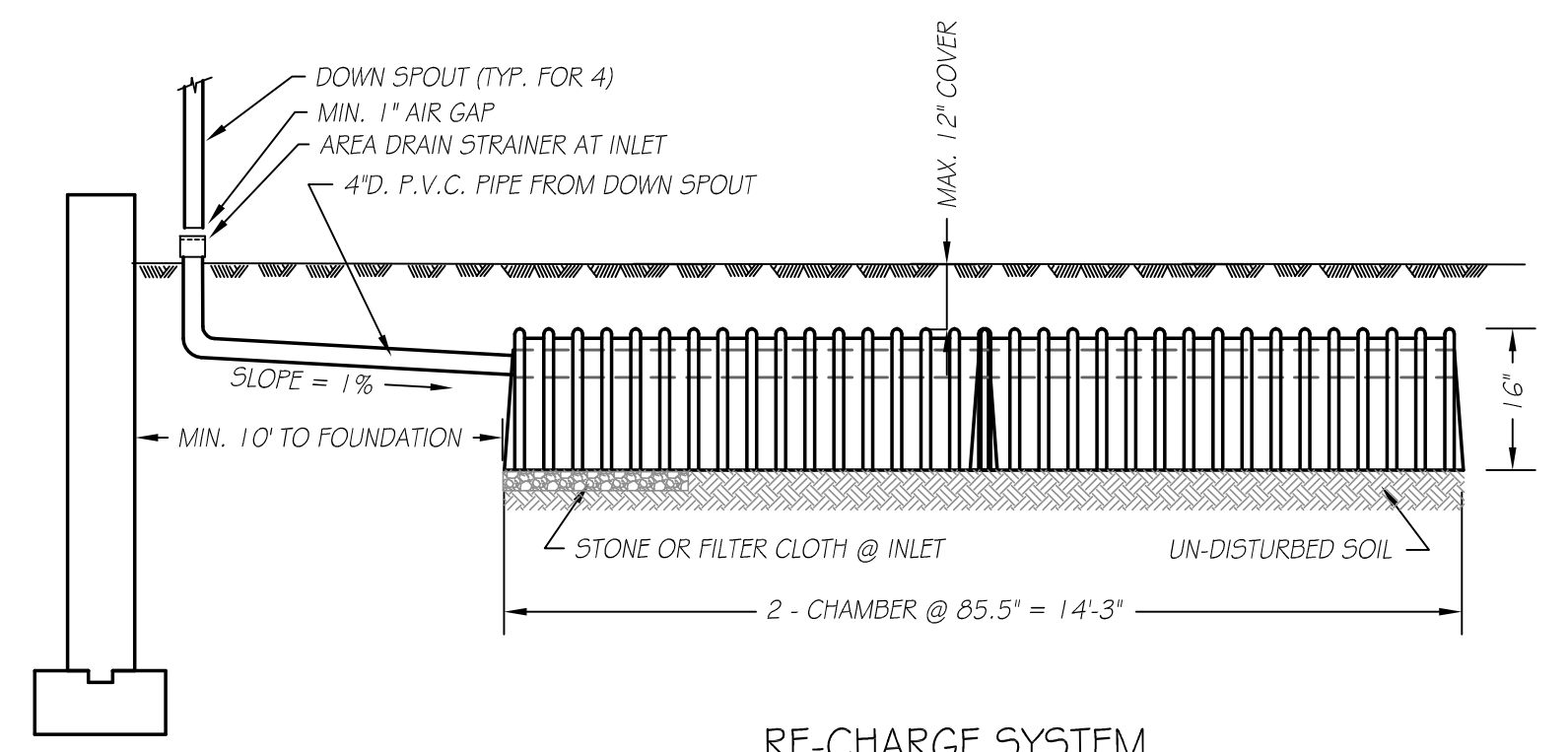
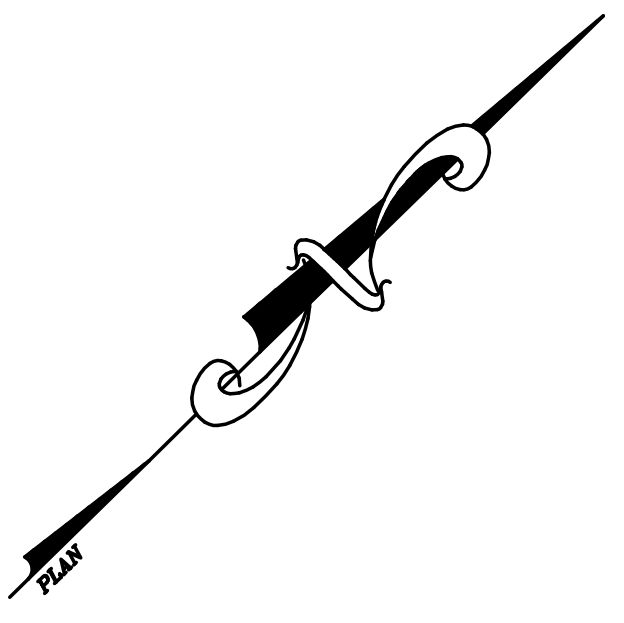
LOCUS PLAN
1" = 2000 FT. +/-



EXISTING SITE PLAN
SCALE: 1" = 20 FT.



PROPOSED SITE PLAN
SCALE: 1" = 20 FT.

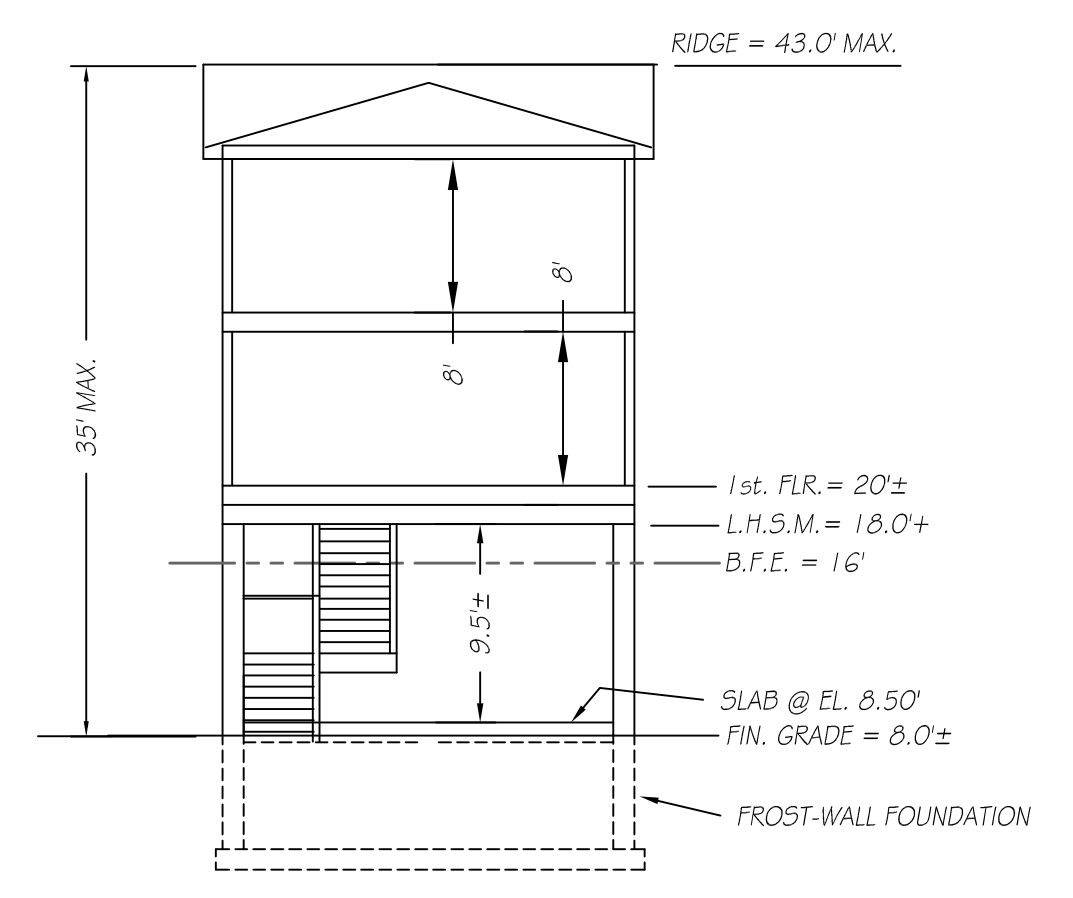


RE-CHARGE SYSTEM
N.T.S.

COMPENSATORY RE-CHARGE SYSTEM CALCULATION FOR PAVED DRIVEWAY:
 DRIVEWAY AREA = 270 S.F.
 RE-CHARGE VOLUME = 270 S.F. x 1/12 = 22.5 CU. FT.
 NO. OF CHAMBERS REQUIRED = 22.5 CU. FT. / 14.7 = 1.6 CHAMBERS - USE 2 CHAMBERS
 CHAMBERS SHALL BE STORMTECH MODEL SC-310.
 STRAINER SCREEN SHALL BE CLEANED ON A MONTHLY BASIS TO REMOVE LEAVES AND DEBRIS THAT MAY CLOG THE LEACHING SURFACES OF THE CHAMBERS.
 CONNECT SYSTEM TO DOWNSPOUT FOR SOUTHEAST CORNER OF HOUSE, COVERING APPROXIMATELY 240 S.F. OF ROOF AREA.

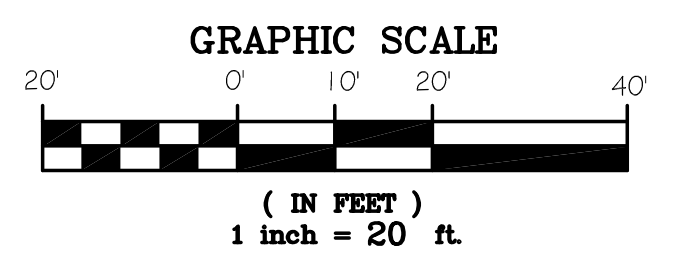
GENERAL NOTES:

- 1) THE SCOPE OF WORK INCLUDES DEMOLITION OF EXISTING HOUSE #33 AND CONSTRUCTION OF NEW RESIDENCE ON FLOOD ZONE-COMPLIANT FOUNDATION, CONNECTIONS TO TOWN SEWER AND TOWN WATER SUPPLY, AND ASSOCIATED SITEWORK & LANDSCAPING.
- 2) THIS PARCEL IS SHOWN AS LOT 170 OF ASSESSOR'S MAP 28.B ZONING: SINGLE RESIDENCE DISTRICT - RA DEED REFERENCE: BOOK 10757 PAGE 93
- 3) THE DWELLING SHOWN HEREON LIES WITHIN A SPECIAL FLOOD HAZARD ZONE (ZONE VE, EL. 16') AS DELINEATED ON F.E.M.A. COMMUNITY PANEL 25005C0413F DATED JULY 7, 2009. PROPOSED RESIDENCE SHALL BE CONSTRUCTED ON OPEN PILE FOUNDATION IN ACCORDANCE WITH THE PROVISIONS OF THE MASS. STATE BUILDING CODE, 9th EDITION.
- 4) NOTIFY DIG-SAFE AND LOCAL UTILITIES PRIOR TO ANY EXCAVATION.
- 5) VERIFY LOCATION OF SITE UTILITIES PRIOR TO ANY WORK.
- 6) MINIMUM LOT REQUIREMENTS: 15,000 S.F. WITH 100 FT. FRONTAGE
 FRONT SETBACK = 20 FT.
 REAR SETBACK = 30 FT.
 SIDE SETBACK = 10 FT.
 MAXIMUM LOT COVERAGE = 50%
 MAXIMUM BUILDING COVERAGE = 30%
 EXISTING HOUSE = 838 S.F.
 EXISTING BUILDING COVERAGE = 620 S.F. / 4,440 S.F. = 14.0%
 EXISTING LOT COVERAGE = 838 S.F. / 4,440 S.F. = 18.9%
 PROPOSED HOUSE = 1,009 S.F.
 PROPOSED BUILDING COVERAGE = 1,009 S.F. / 4,440 S.F. = 22.7%
 PROPOSED LOT COVERAGE = (1,009 S.F. + 282 S.F.) / 4,440 S.F. = 29.0%



PROPOSED HOUSE ELEVATIONS
NOT TO SCALE

HOUSE SHOWN IS SCHEMATIC ONLY AND SHOWN TO ESTABLISH MINIMUM REQUIRED ELEVATIONS AND MAXIMUM BUILDING HEIGHT.



D.E.P. FILE NO.: SE 023-1354

**SITE PLAN OF
 PROPOSED HOUSE & UTILITIES**
 PREPARED FOR
WADE AND WANDA CABANA
33 POINT STREET
FAIRHAVEN, MASS.



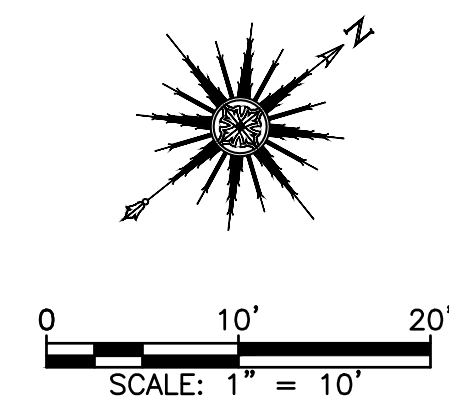
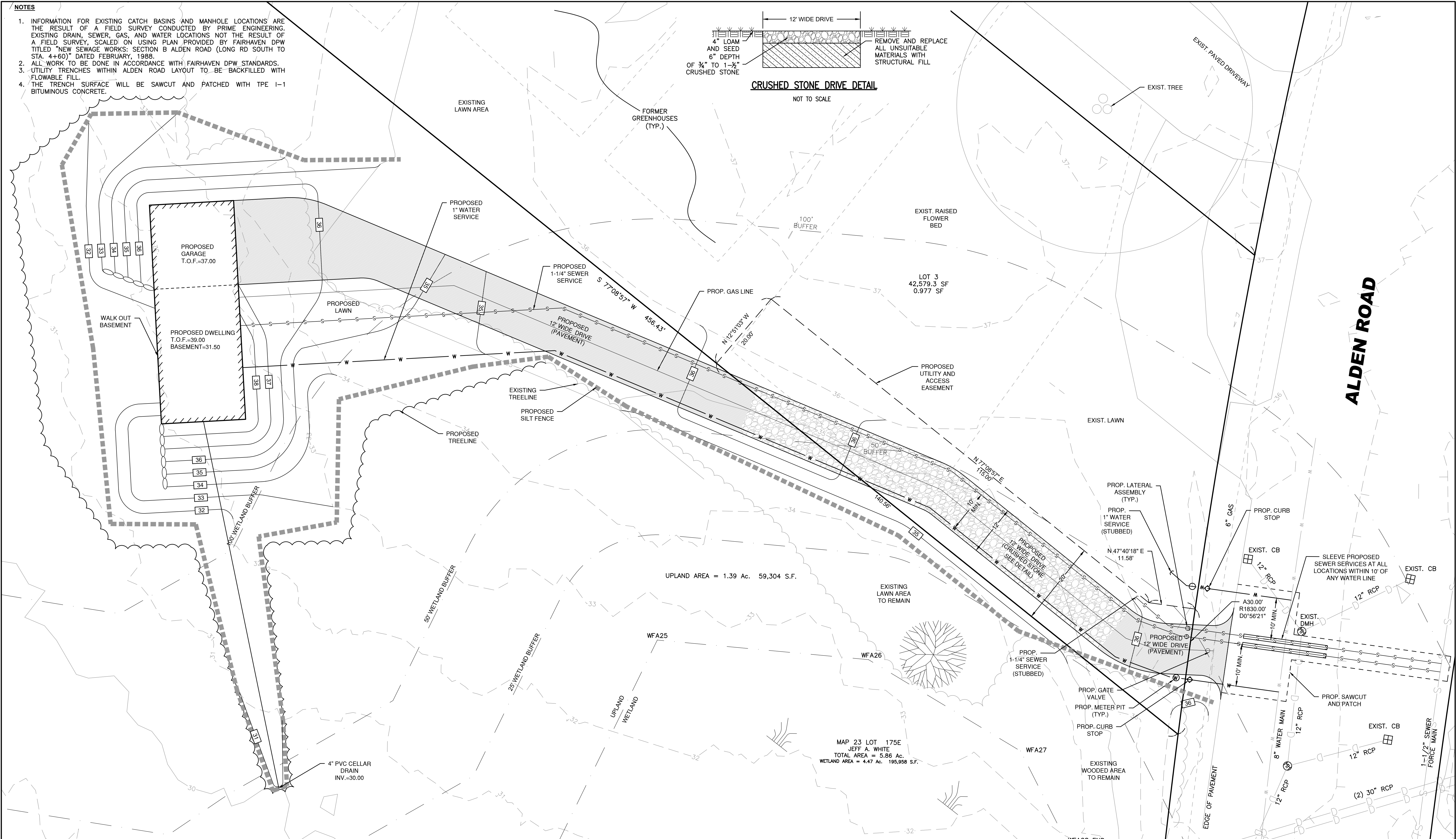
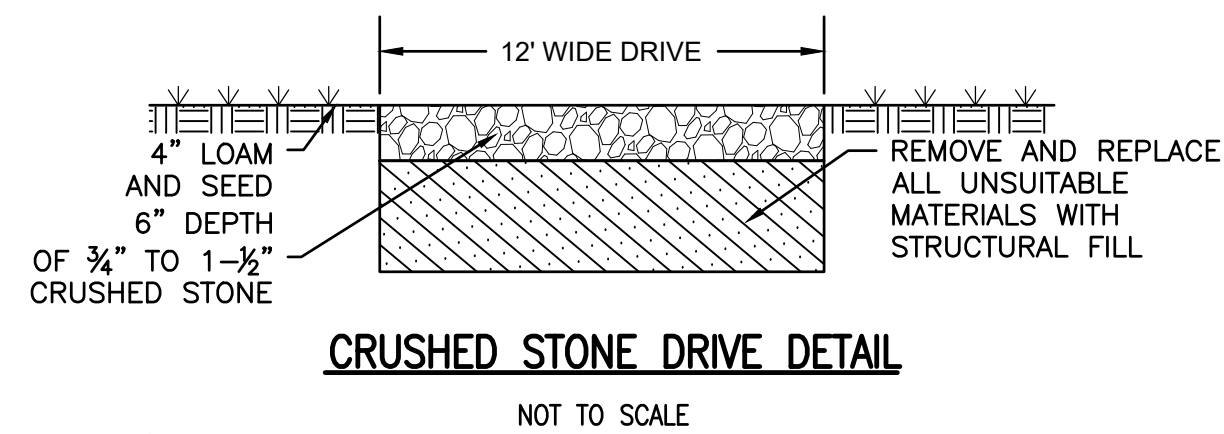
CAI Charon Associates, Inc.
 Consulting Engineers
 323 Neck Road - Rochester, MA 02770
 Tel: 508-763-8362 Fax: 508-763-9582

SCALE: AS NOTED
 DATE: APRIL 28, 2021
 REV. 1: MAY 24, 2021
 REV. 2: JUNE 4, 2021 (Re-Charge System)

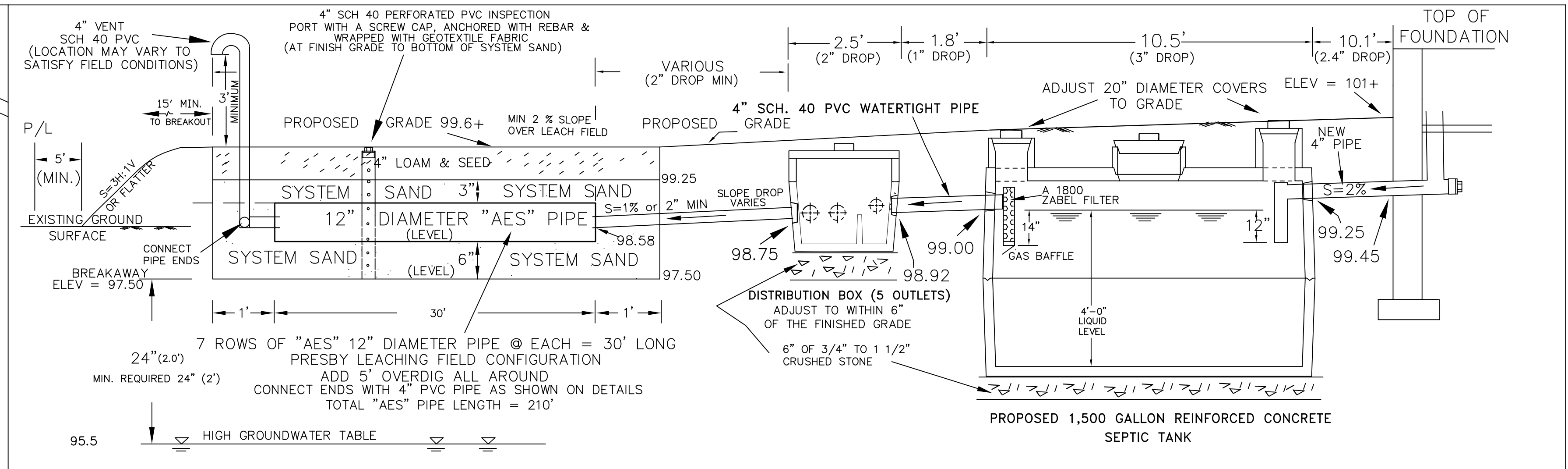
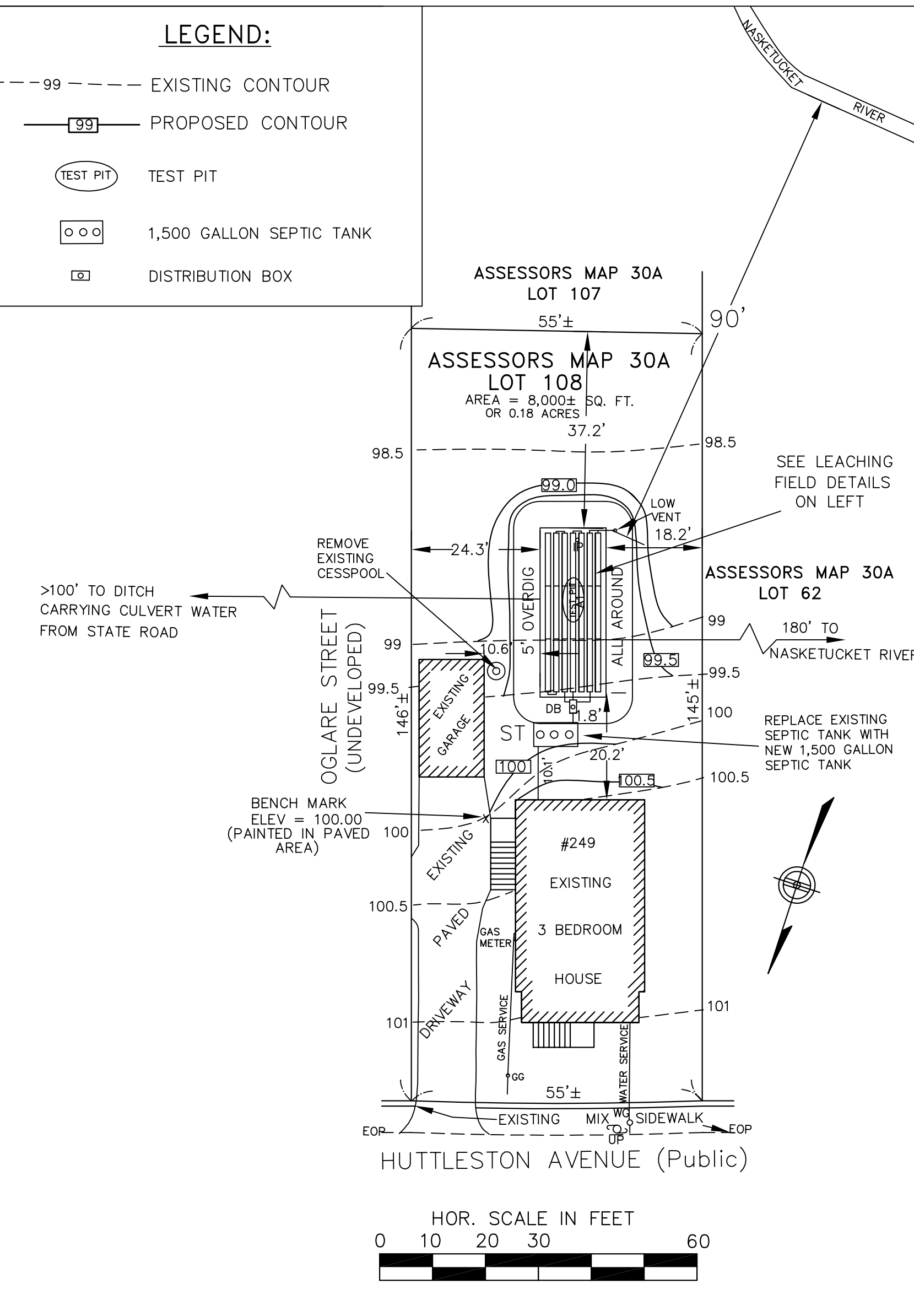
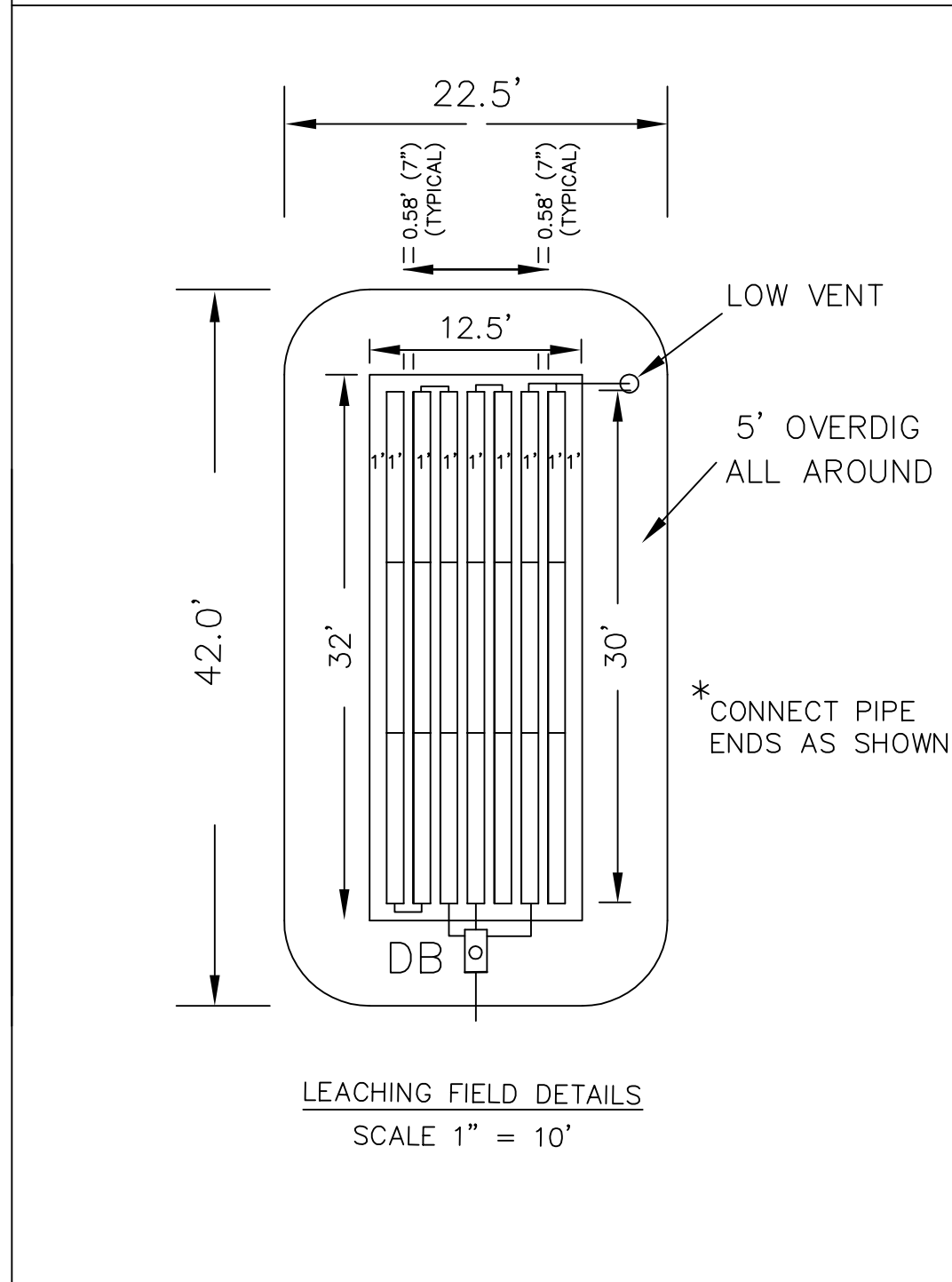
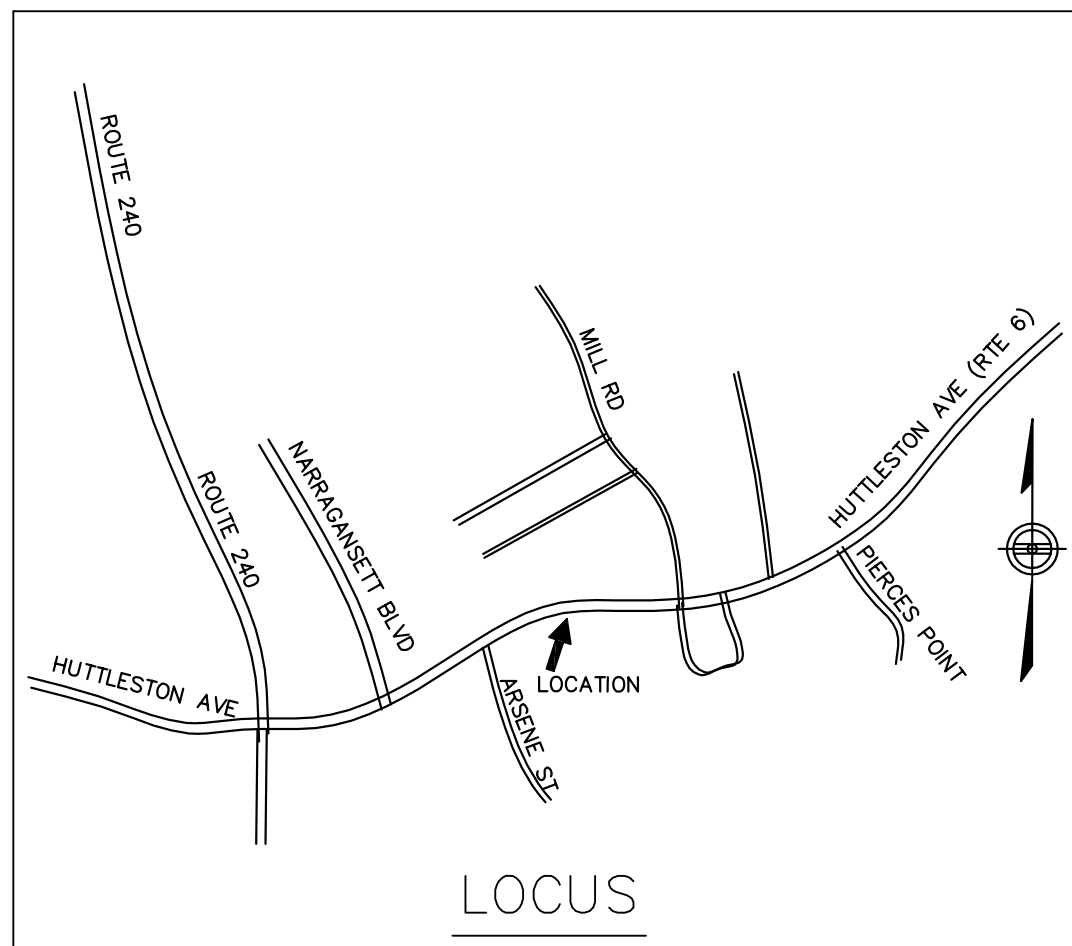
DWG. NO.
L-1

NOTES

1. INFORMATION FOR EXISTING CATCH BASINS AND MANHOLE LOCATIONS ARE THE RESULT OF A FIELD SURVEY CONDUCTED BY PRIME ENGINEERING. EXISTING DRAIN, SEWER, GAS, AND WATER LOCATIONS NOT THE RESULT OF A FIELD SURVEY, SCALED ON USING PLAN PROVIDED BY FAIRHAVEN DPW TITLED "NEW SEWAGE WORKS: SECTION B ALDEN ROAD (LONG RD SOUTH TO STA. 4+60)" DATED FEBRUARY, 1988.
2. ALL WORK TO BE DONE IN ACCORDANCE WITH FAIRHAVEN DPW STANDARDS.
3. UTILITY TRENCHES WITHIN ALDEN ROAD LAYOUT TO BE BACKFILLED WITH FLOWABLE FILL.
4. THE TRENCH SURFACE WILL BE SAWCUT AND PATCHED WITH TPE 1-1 BITUMINOUS CONCRETE.



DRAWING TITLE		PROPOSED DWELLING		SCALE: 1"=10'	
PROJECT		240 ALDEN ROAD FAIRHAVEN, MASSACHUSETTS		DATE: DEC. 29, 2020	
CLIENT		JEFF WHITE		DRAWN BY: SWL	
DESIGNED BY: SWL		CHECKED BY: RJR		APPROVED BY: RJR	
SHEET NO. 1		PROJECT NO.			
• CIVIL ENGINEERING • LAND SURVEYING • ENVIRONMENTAL ASSESSMENT				P.O. BOX 1088 350 BEDFORD ST. LAKEVILLE, MA 02347 TEL: 508.947.0050 FAX: 508.947.2004	
REV.	DATE	DESCRIPTION	BY	APP.	



GENERAL NOTES

- THE SANITARY SYSTEM CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE COMMONWEALTH OF MASSACHUSETTS TITLE V, AND THE REQUIREMENTS OF FAIRHAVEN BOARD OF HEALTH.
- THE EXISTING SEPTIC TANK SHALL BE PUMPED OUT AND REMOVED. PROVIDE A NEW 1,500 GALLON PRECAST CONCRETE SEPTIC TANK WITH INLET AND OUTLET TEES, AND A ZABEL A-1800 FILTER AND GAS BAFFLE AT OUTLET TEE. EXISTING CESSPOOL SHALL BE REMOVED.
- NO GARBAGE GRINDER SHALL BE ALLOWED WITH THIS SYSTEM. ALL PILING SOLID OR PERFORATED WITH WATERTIGHT (GLOUED) JOINTS SHALL BE 4" SCH 40 PVC. OUTLET FROM WASHING MACHINE SHALL BE CONNECTED TO THIS SYSTEM.
- THE INSTALLED SYSTEM MUST BE LEFT EXPOSED UNTIL INSPECTED BY FAIRHAVEN BOARD OF HEALTH.
- ELEVATIONS SHOWN ON THIS PLAN ARE ASSUMED. BENCH MARK ELEVATION = 100.00 IS THE TOP OF ASPHALT AREA BETWEEN THE GARAGE AND THE HOUSE (PAINTED GREEN).
- THE LEACHING AREA INCLUDING OVERDIG AREA MUST BE STRIPPED OF TOPSOIL, SUBSOIL, SPOILED, FILLED AND UNDESIRABLE MATERIAL TO AT LEAST ELEVATION 94.0 OR AS DIRECTED BY THE BOARD OF HEALTH AGENT AND BACKFILLED WITH CLEAN COARSE SAND WITH A PERCOLATION RATE OF 2 MINUTES PER INCH OR LESS.
- THE FINISHED SLOPE SHALL NOT BE STEEPER THAN 3H:1V.
- ALL SYSTEM COMPONENTS SHALL BE MARKED WITH MAGNETIC MARKING TAPE.
- GROUT IS TO BE USED AT ALL POINTS WHERE PIPES ENTER OR LEAVE ALL CONCRETE STRUCTURES IN ORDER TO PROVIDE A WATERTIGHT SEAL.
- NO EXISTING WELLS ARE LOCATED ADJACENT TO THE PROPOSED SEPTIC SYSTEM. ALL TOWN SUPPLIED WATER. NO WETLANDS EXIST ADJACENT TO THE PROPOSED SEPTIC SYSTEM.
- THE OUTLET OF THE DISTRIBUTION BOX MUST BE SET AT LEAST 2 INCH ABOVE THE HIGHEST INLET OF THE "AES" ROW, WITH THE CONNECTING PIPE SLOPE NOT LESS THAN 1% (APPROX 1/4" PER FOOT)
- THE SYSTEM SAND MUST BE CLEAN, GRANULAR AND FREE OF ORGANIC MATTER AND MUST ADHERE TO "ASTM C-33" SPECIFICATION PROVIDING THAT NO MORE THAN 3% CAN PASS #200 SIEVE PER REQUIREMENTS OF "ASTM C-117".
- REMOVE ANY TREE AND STUMP LOCATED WITHIN TEN (10') OF THE PROPOSED SEPTIC SYSTEM.

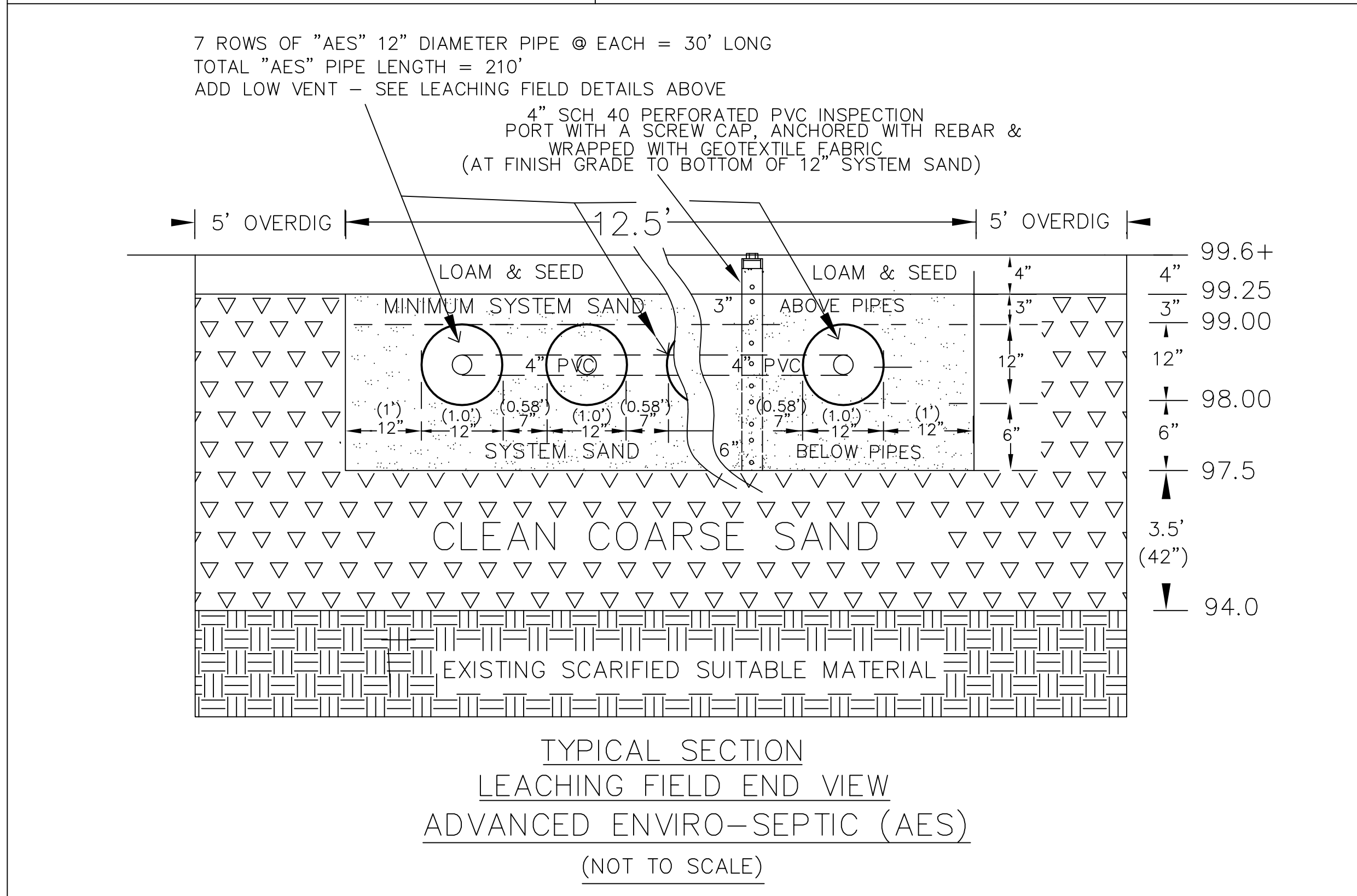
PERCOLATION TEST RESULTS

LOCATION: 249 HUTTLESTON AVENUE, FAIRHAVEN, MA 02719
 TEST HOLE TAKEN BY GEORGE AYOUB ON MARCH 16, 2021
 WITNESSED BY FAIRHAVEN B.O.H. INSPECTOR DAVID FLAHERTY
 ESTIMATED SEASONAL HIGH GROUND WATER IS 40" BELOW GROUND SURFACE
 GROUND ELEVATION AT TP #A1 = 98.7
 PERK RATE AT TP #A1 = 10 MPI, DEPTH OF PERK HOLE = 35" TO TOP OR 53" TO BOTTOM
 CLASS I SOIL - LOAMY SANDS

DESIGN DATA
 FROM SEPTEMBER 2019 PRESBY DESIGN MANUAL:
 THE EXISTING DWELLING CONSISTS OF THREE (3) BEDROOMS
 3 BEDROOM X 110 GAL/DAY = 330 G.P.D.
 SEPTIC TANK VOLUME = 2 X 330 = 660 GALLON
 USE A NEW 1,500 GALLON PRECAST SEPTIC TANK, WITH GAS BAFFLE AND OUTLET FILTER.
 BOTTOM/SIDES FACTOR : 0.60 GAL./SQ. FT.
 MINIMUM "AES" PIPE REQUIREMENTS:
 MINIMUM LENGTH = 210 L.F.
 LONG TERM ACCEPTANCE RATE (LTAR): 1.000
 MINIMUM SYSTEM SAND BED AREA = 400 SQ. FT.
 USE SEVEN (7) ROWS @1.58' (19") SPACING (CENTER TO CENTER) ON PIPES
 USE ONE (1) FOOT SYSTEM SAND ALL AROUND
 CALCULATED TOTAL SYSTEM WIDTH = 12.5'
 SYSTEM LENGTH = 30'+1'+1' = 32'
 TOTAL SYSTEM AREA = 32'L X 12.5'W = 400 SQ. FT.--400X1.000 = 400 GPD>330 GPD
 400 SQ. FT. (PROVIDED) = 400 SQ. FT. (REQUIRED)

I certify that on May 7, 1996, I have passed the examination approved by the Department of Environmental Protection and that the above analysis has been performed by me consistent with the required training, expertise and experience described in 310 CMR 15.018(2). SE #53.

Signature: *George T. Ayoub* Date: REVISED JUNE 3, 2021 MARCH 17, 2021



FORM 11--SOIL EVALUATOR FORM
 249 HUTTLESTON AVENUE
 MAP 30A LOT 108
 FAIRHAVEN, MA 02719
 PAGE 2 OF 4

Location Address or Lot No. _____

On-site Review

Deep Hole Number: A1 Date: 03/16/21 Time: 8:30 AM Weather: 28° F CLOUDY

Location (identify on site plan): YES

Land Use: RESIDENTIAL/COMMERCIAL Slope (%): 2% Surface Stones: SOME

Vegetation: WEEDS AND WOODS

Landform: TERRACE

Position on landscape (sketch on the back): YES

Distances from:

Open Water Body: N/A feet Drainage Way: N/A feet
 Possible Wet Area: >100 feet Property Line: 23 feet
 Drinking Water Well: N/A feet Other: N/A

DEEP OBSERVATION HOLE LOG *				
Depth from Surface (inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling (Structure, Stones, Boulders, Consistency, % Gravel)
0"-14"	FILL			
14"-20"	A	SANDY LOAM	2.5Y3/3	FRIABLE
20"-33"	B	SANDY LOAM	2.5Y3/1	FRIABLE
33"-120"	C	LOAMY SAND	2.5Y5/4	FRIBLE W/5% GRAVEL & COBBLES

* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic): GLACIAL TILL Depth to Bedrock: N/A

Depth to Groundwater: Standing Water in the Hole: 62" BELOW GROUND SURFACE
 Weeping from Pit Face: 48" BELOW GROUND SURFACE

Estimated Seasonal High Ground Water: 40" BELOW GROUND SURFACE

FORM 12--PERCOLATION TEST
 249 HUTTLESTON AVENUE
 MAP 30A LOT 108
 FAIRHAVEN, MA 02719
 PAGE 4 OF 4

Location Address or Lot No. _____

COMMONWEALTH OF MASSACHUSETTS
 FAIRHAVEN, MASSACHUSETTS

Percolation Test*

Date: MARCH 16, 2021 Time: 10:00 AM

Observation Hole #	Perk Rate
A1	35" TO TOP 53" TO BOTTOM

Start Pre-soak: 10:02 AM
 End Pre-soak: 10:17 AM
 Time at 12": 10:17 AM
 Time at 9": 10:38 AM
 Time (9"-6"): 11:07 AM
 Rate Min./Inch: 10 MPI

* Minimum of 1 percolation test must be performed in both the primary area AND reserve area.

Site Passed Site Failed

Performed By: GEORGE T. AYOUB, PE
 Witnessed By: DAVID FLAHERTY, BOH
 Comments: _____

VENT PIPING SYSTEM:

VENT PIPING SHOULD SLOPE DOWNWARD TOWARD THE SYSTEM TO PREVENT MOISTURE FROM COLLECTING IN THE PIPE AND BLOCKING THE PASSAGE OF AIR.

IF UNABLE TO SATISFY THE ABOVE CONDITION PROVIDE VENT AS SHOWN HEREIN. HOUSE VENT IS TO BE USED AS HIGH VENT

DRILL SEVERAL 1/4" HOLES AT LOW POINT OF ELBOW TO DRAIN CONDENSATION. LOW POINT MUST BE ABOVE SEASONAL HIGH WATER TABLE.

NOT ALL ROWS ARE SHOWN

BOARD OF HEALTH STAMP

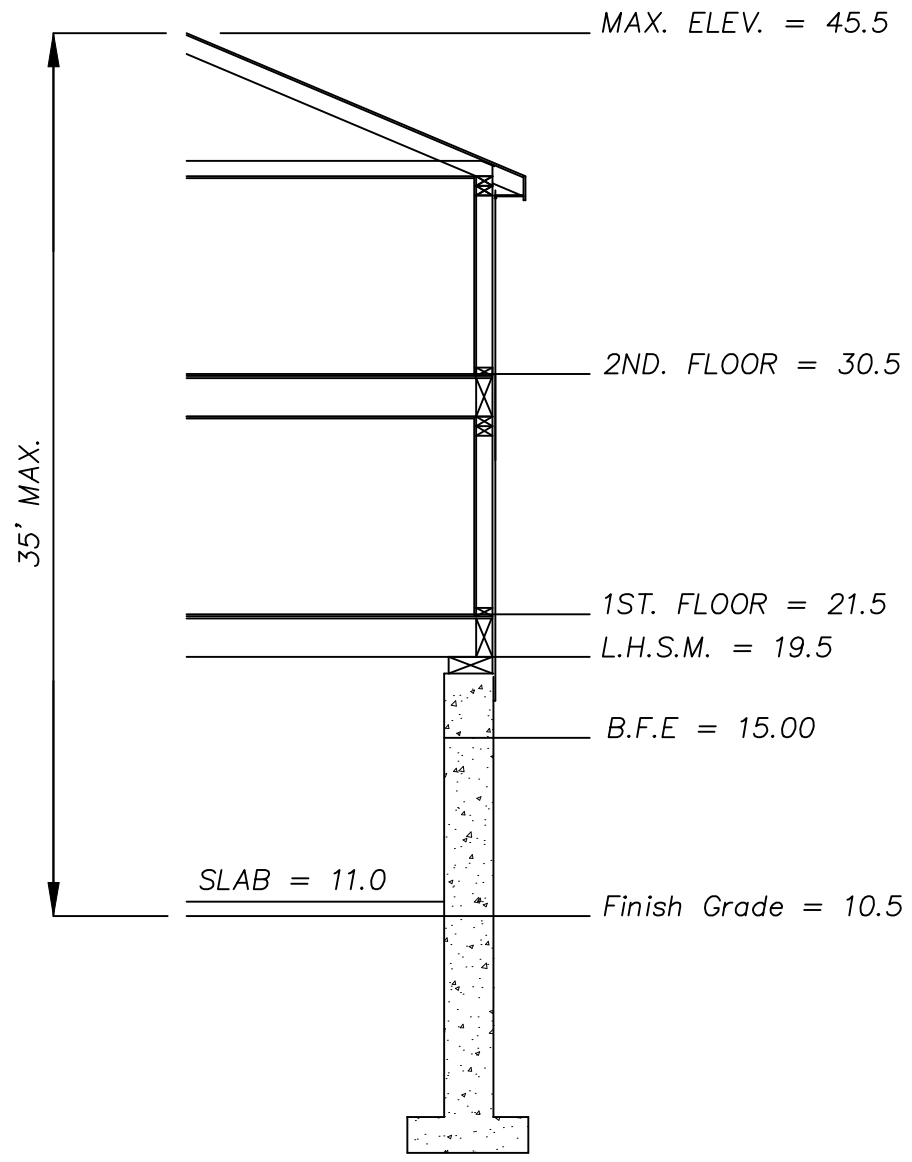
SUBSURFACE SEWAGE DISPOSAL SYSTEM

OWNER: JACOB GALARY
 8 TANNER LANE
 FAIRHAVEN, MA 02719

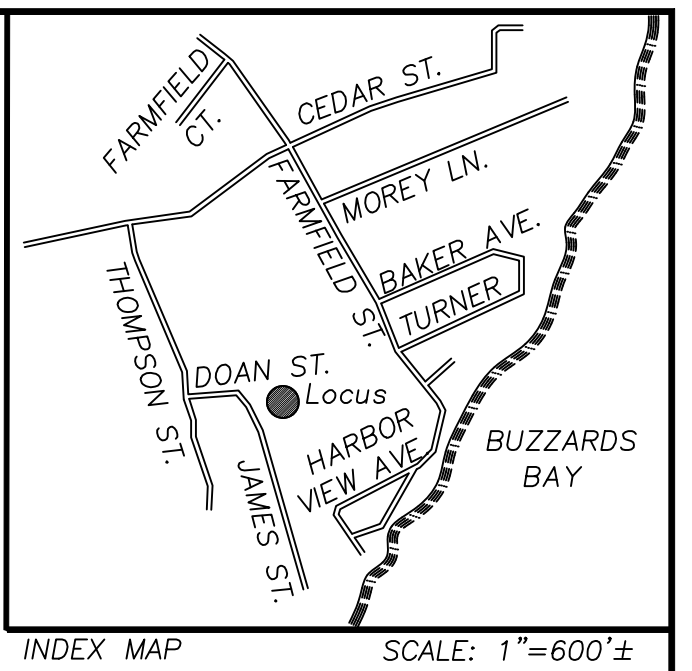
STREET LOCATION: 249 HUTTLESTON AVENUE
 ASSESSORS MAP 30A LOT 108
 FAIRHAVEN, MA 02719

DATE: MARCH 17, 2021 SCALE: AS NOTED
 REVISED 6/3/21 SHOWING RIVER SETBACK

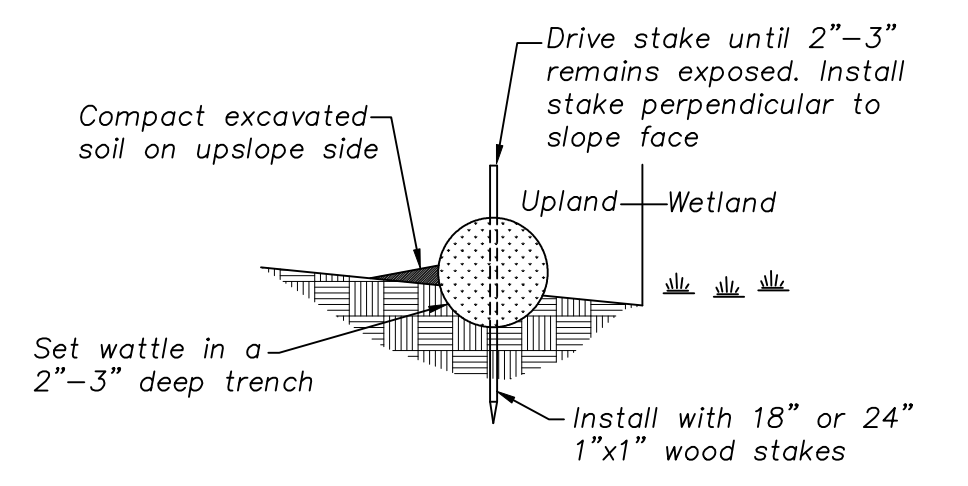
CONTACT PERSON: GEORGE T. AYOUB, PE, LSIT
 ADDRESS: 818 MONTGOMERY ST.
 FALL RIVER, MA 02720
 TEL: (508) 674-4128 CELL: (774) 301-1710
 E-MAIL: GEORGE4220@YAHOO.COM FAX: (508) 819-4949



PROPOSED DWELLING ELEVATIONS
Not To Scale



INDEX MAP SCALE: 1"=600'±



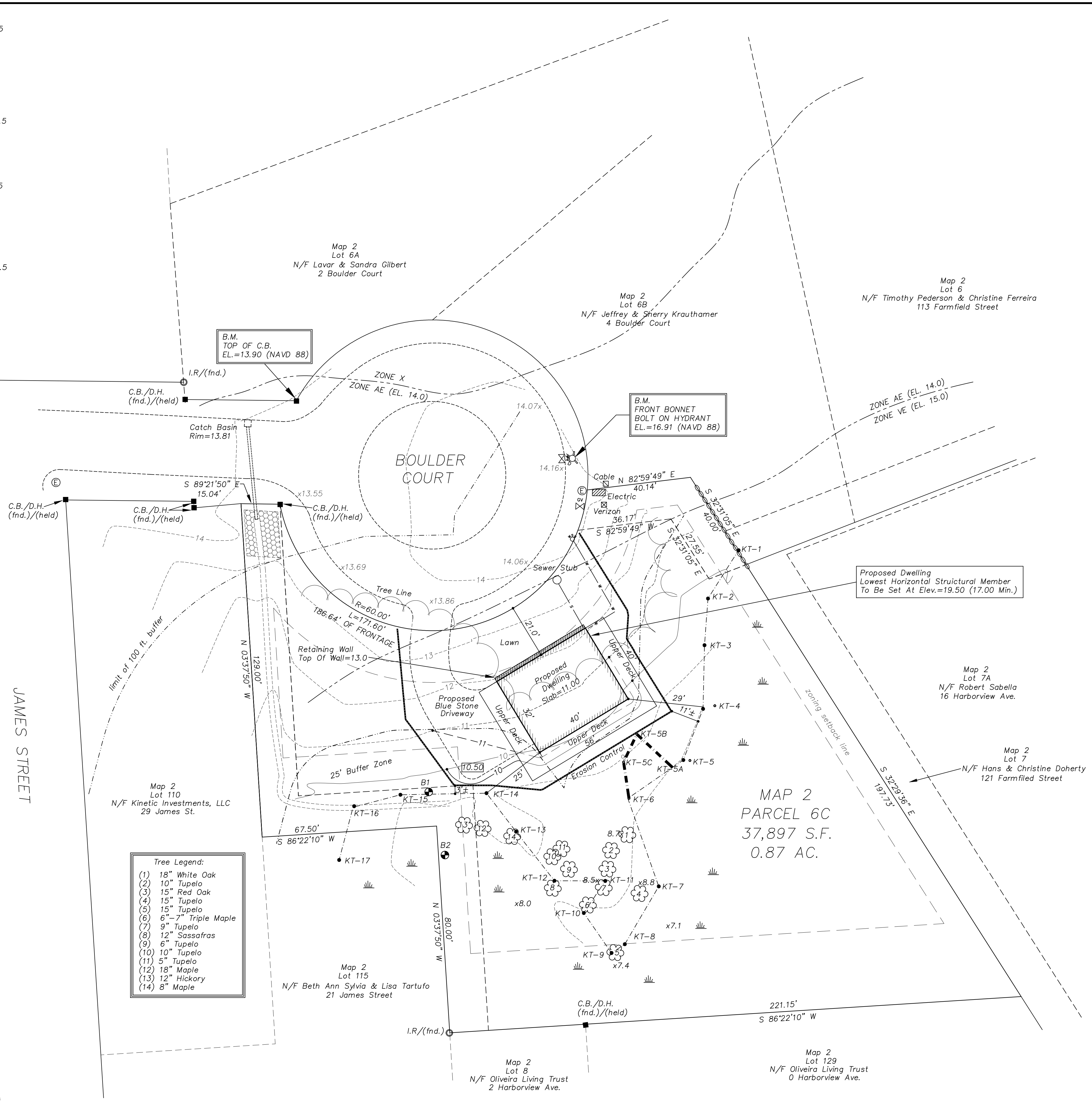
STRAW WATTLE DETAIL
N.T.S.

ZONING	
SINGLE RESIDENCE DISTRICT - RA	
RESIDENTIAL USE	
LOT AREA	15,000 S.F.
LOT FRONTAGE	100 FT.
BUILDING SETBACKS	
FRONT	20 FT.
REAR	30 FT.
SIDE	10 FT.

- General Notes:
- 1.-Entire Site Is Located Within A VE Zone, Elevation 15.0 As Shown The FEMA Flood Map 25005C0394G Dated 07/16/2014.
 - 2.-Disturbed Vegetated Areas Within Limit Of Work Will Be Loamed And Seeded. Landscaping Will Be Comprised Of Shrubs And Trees At Owners Discretion.
 - 3.-Lowest Horizontal Structural Member Will Be Set A Minimum 2 Feet Above VE Zone Elevation 15.0 + 2 Feet = 17.0 Minimum Elevation.
 - 4.-Deck Supports Will Be Placed On Sono Tube Footings. Foundation Will Be Designed By A Massachusetts Registered Structural Engineer.
 - 5.-Total Area Of Vegetation To Be Removed: 4,194 Square Feet.
 - 6.-A 2 Foot High Retaining Wall Will Be Constructed Along The Front Of The Proposed Dwelling To Direct Stormwater Runoff From Entering Building Area Beneath Dwelling.
 - 7.-The Total Area Of The 25 Foot Buffer Zone Is 7,707 Square Feet. Proposed Buffer Zone Disturbance Is 1,192 Square Feet (15.4%).

LEGEND	
○	EXISTING IRON PIPE
■	EXISTING CONCRETE BOUND
□	EXISTING CATCH BASIN
⊙	EXISTING DRAIN MANHOLE
⊗	EXISTING SEWER MANHOLE
⊕	WATER SHUTOFF
⊗	WATER GATE VALVE
—W—	PROPOSED WATER LINE
⊗	EXISTING FIRE HYDRANT
- - - -	EDGE OF WETLAND
- · - · -	100 FOOT BUFFER ZONE
⊕	TREE LINE
⊕	STONEWALL
- - - -	EXISTING CONTOUR
- - - -	PROPOSED CONTOUR
95x5	EXISTING SPOT GRADE
95.00	PROPOSED SPOT GRADE
— — — —	EXISTING DRAINAGE PIPE

Tree Legend:	
(1)	18" White Oak
(2)	10" Tupelo
(3)	15" Red Oak
(4)	15" Tupelo
(5)	15" Tupelo
(6)	6"-7" Triple Maple
(7)	9" Tupelo
(8)	12" Sassafras
(9)	6" Tupelo
(10)	10" Tupelo
(11)	5" Tupelo
(12)	18" Maple
(13)	12" Hickory
(14)	8" Maple



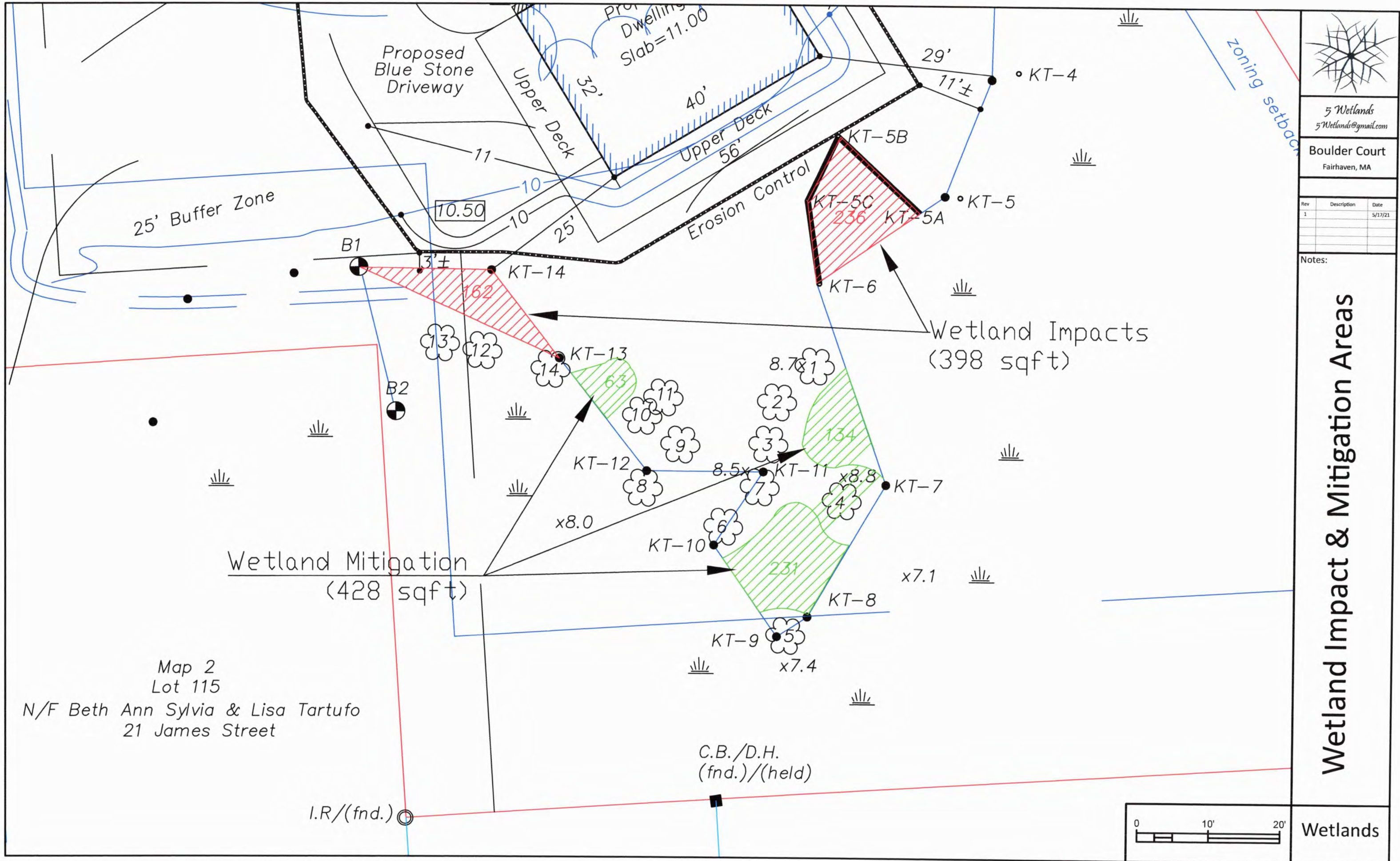
MAP 2
PARCEL 6C
37,897 S.F.
0.87 AC.

PROPOSED DWELLING PLAN
MAP 2, PARCEL 6C
#1 BOULDER COURT
FAIRHAVEN, MASS.

PREPARED FOR: ARTHUR & HELENA OLIVEIRA
2 HARBORVIEW AVE
FAIRHAVEN, MA 02719

MICHAEL J. KOSKA & ASSOCIATES, INC.
REGISTERED CIVIL ENGINEERS & LAND SURVEYORS
98 BRIDGEWATER, MASS. 02324
TEL. (508) 697-7400 FAX. (508) 697-1650
email: m.koska.associates@gmail.com

DATE: 03/15/21	JOB# 05-33	SHEET: 1 OF 1
REV. 04/02/21	FILE# 05-33	0 10 20 40
REV. 05/17/21	DWG#	SCALE: 1"=20'



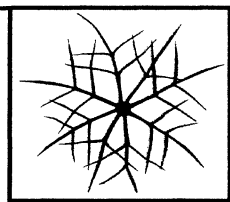
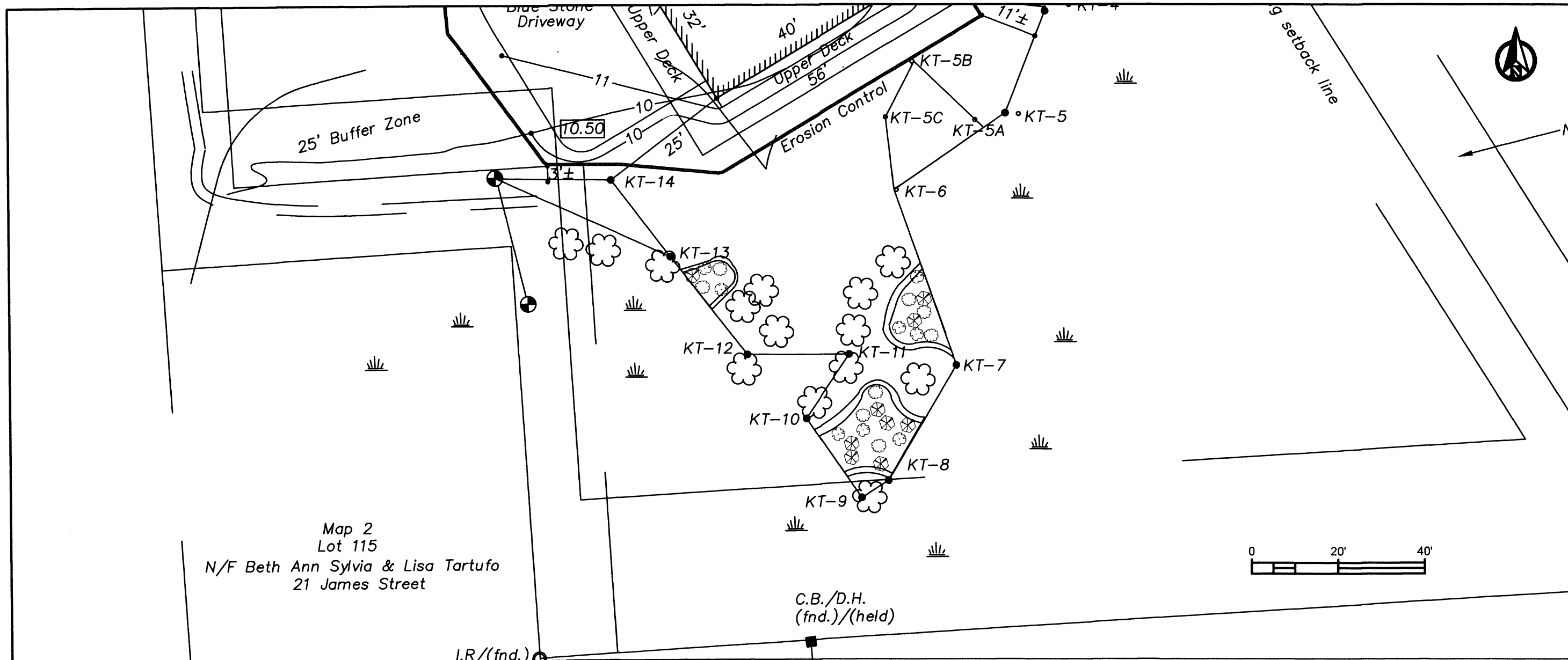
5 Wetlands
5Wetlands@gmail.com

Boulder Court
Fairhaven, MA

Rev	Description	Date
1		5/17/21

Notes:

Wetland Impact & Mitigation Areas



5 Wetlands
5Wetlands@gmail.com

Boulder Court
Fairhaven, MA

Rev	Description	Date
1		6/3/21

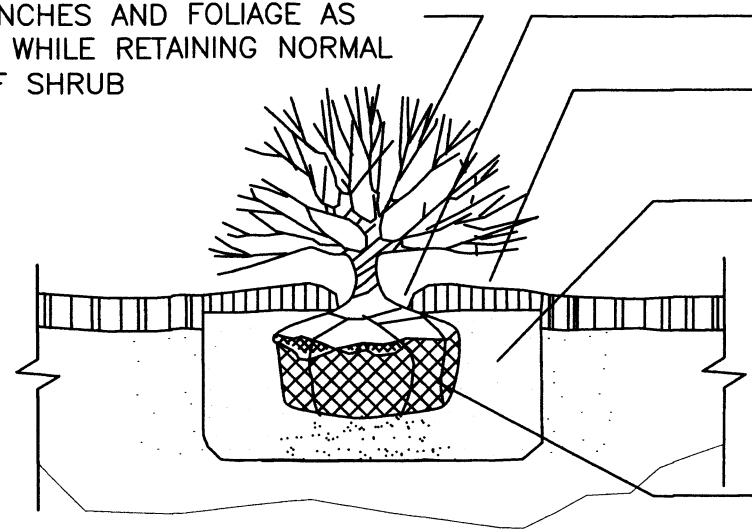
Notes:

Plant Schedule

Symbol	Common Name	Latin Name	Size	Quantity
⊗	Silky Dogwood	Cornus amomum	18-24 In	10
⊕	Arrow-wood	Viburnum dentatum	18-24 In	8
⊙	Highbush Blueberry	Vaccinium corymbosum	18-24 In	8

Seed with New England Wet Mix at 1 lb./2500 sq. ft (.5 lbs)

THIN BRANCHES AND FOLIAGE AS DIRECTED WHILE RETAINING NORMAL SHAPE OF SHRUB



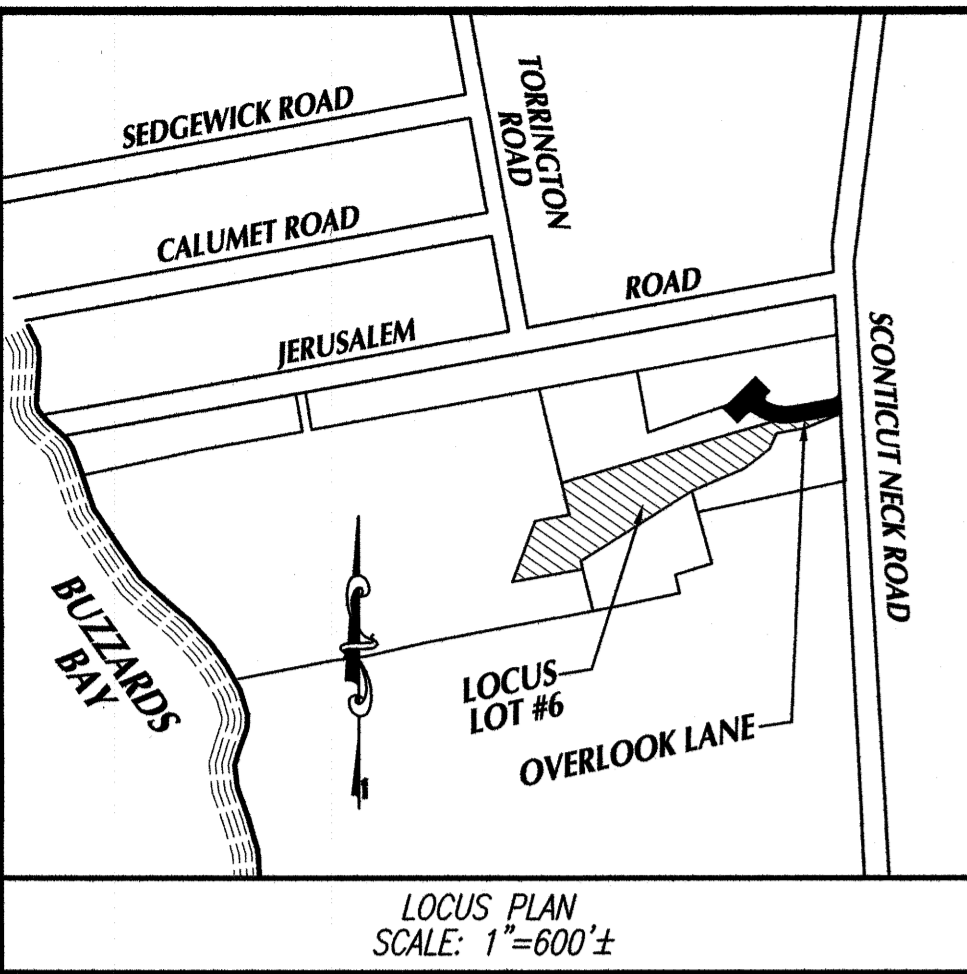
PLACE PLANT 2" ABOVE SURROUNDING GRADE
3" DEPTH MULCH (PULL BACK AWAY FROM BASE OF SHRUB)

EXCAVATE SHRUB BED TO REQUIRED DEPTH AND BACKFILL WITH WETLAND SOIL MIX.

ROLL BURLAP BACK FROM TOP 1/3 OF ROOTBALL BEFORE BACKFILLING. UNTIE ROPE FROM TRUNK

Wetland Mitigation

MITIGATION



LEGEND

- PROPOSED CONTOURS
- EXISTING CONTOURS
- FLOOD ZONE LINES
- EDGE OF TREES
- EDGE OF LAWN
- EDGE OF WETLAND (B.V.W.)

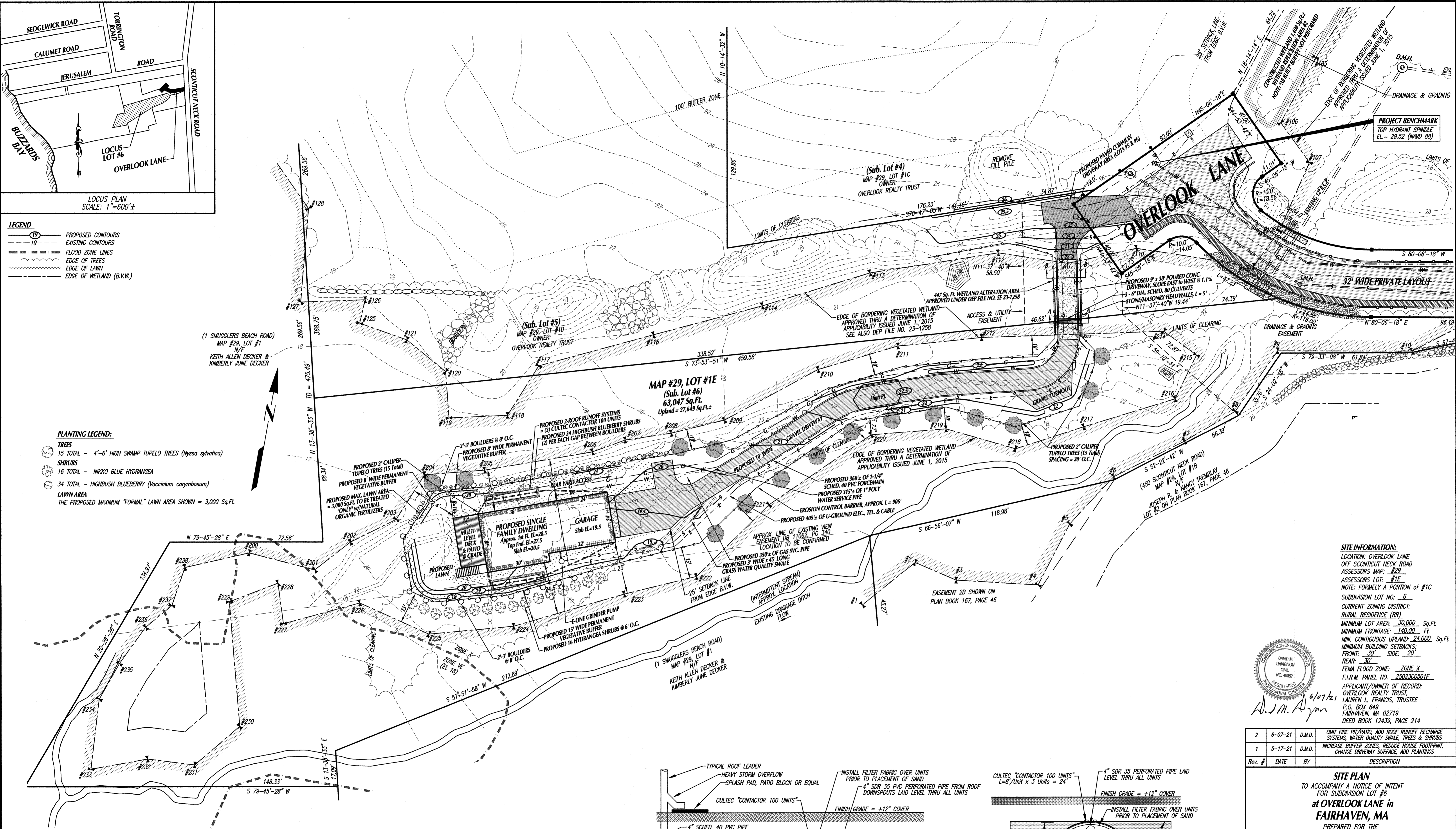
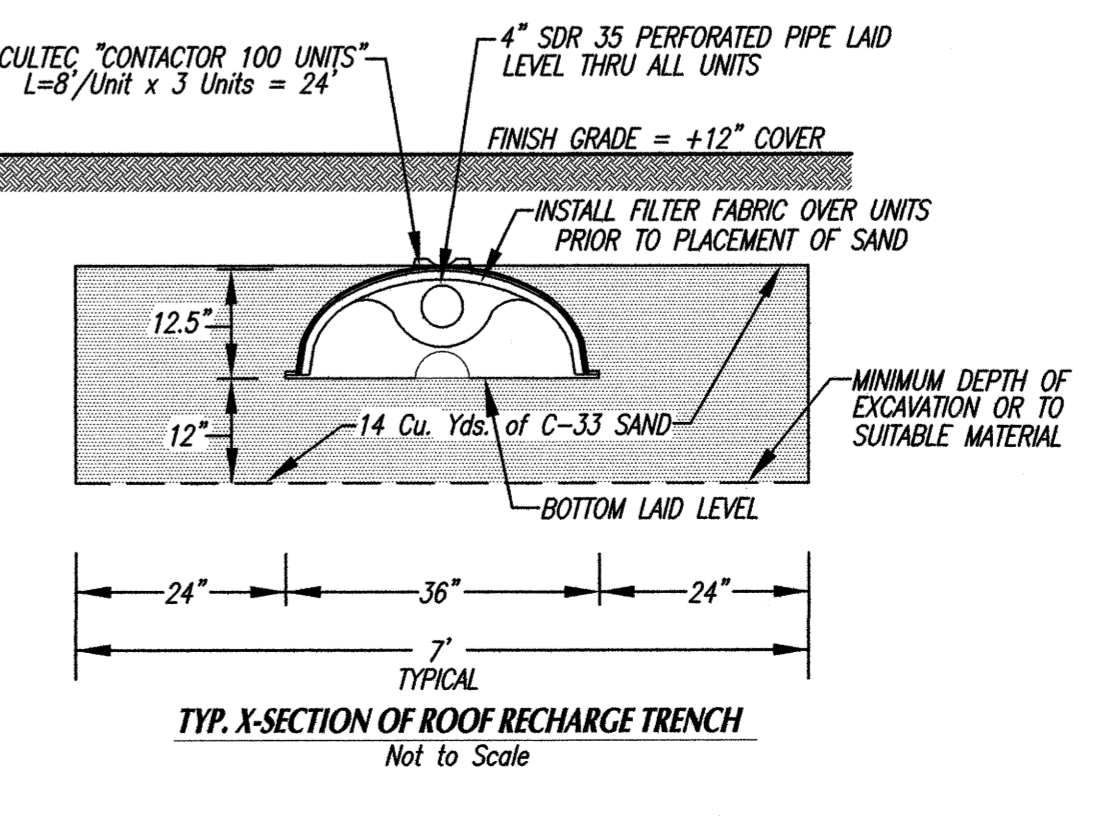
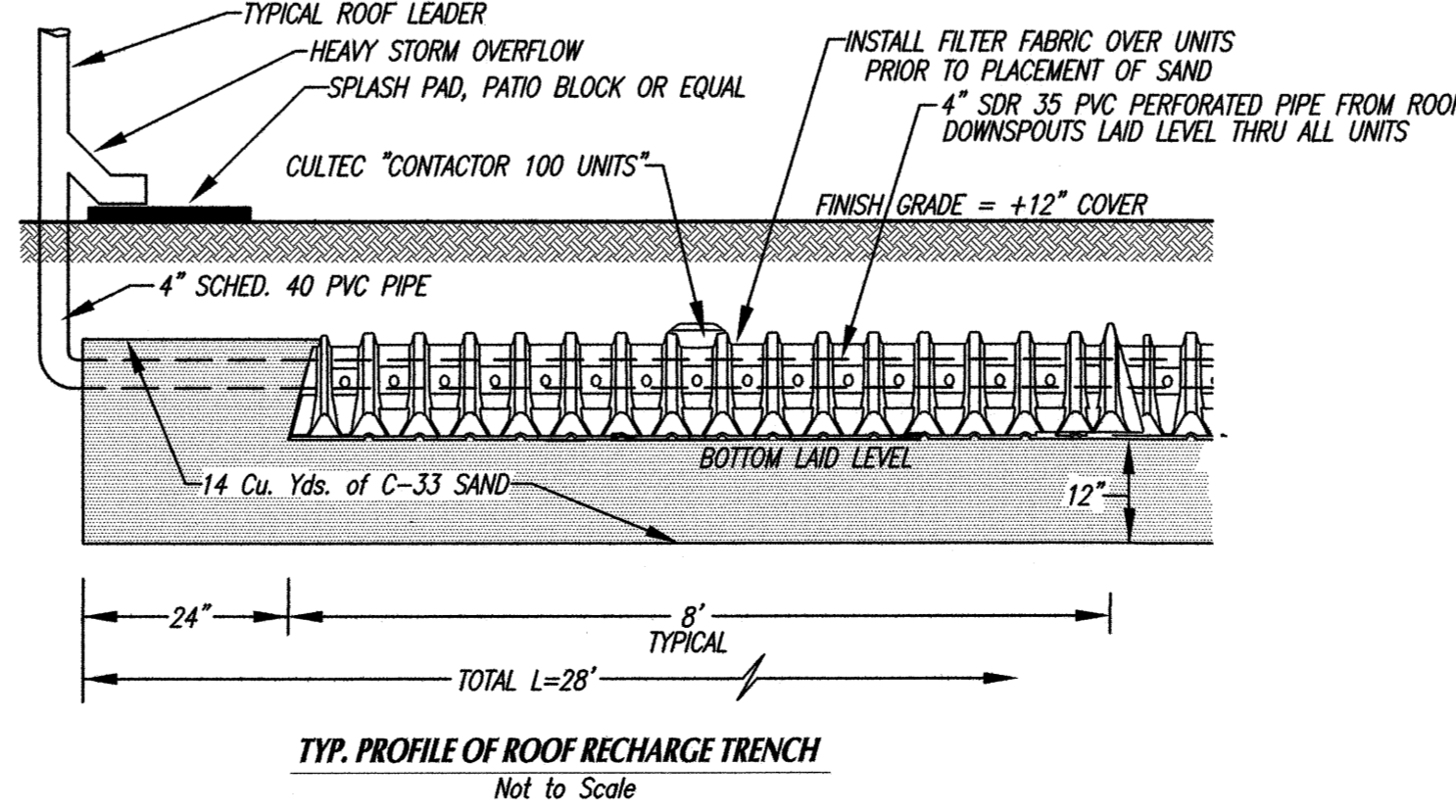
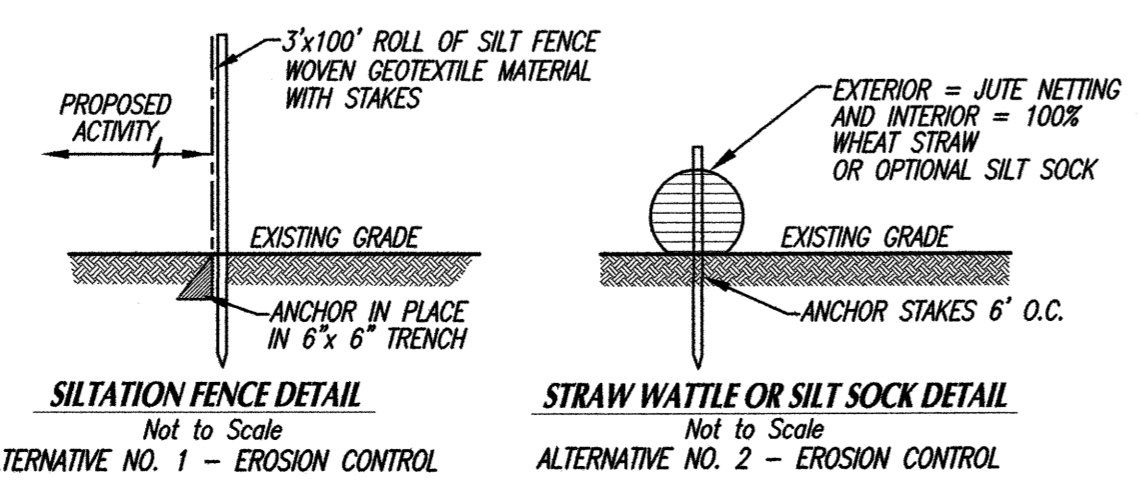
PLANTING LEGEND:

TREES
 15 TOTAL - 4'-6" HIGH SWAMP TUPELO TREES (*Nyssa sylvatica*)

SHRUBS
 16 TOTAL - NIKKO BLUE HYDRANGEA
 34 TOTAL - HIGHBUSH BLUEBERRY (*Vaccinium corymbosum*)

LAWN AREA
 THE PROPOSED MAXIMUM "FORMAL" LAWN AREA SHOWN = 3,000 Sq.Ft.

- GENERAL NOTES:**
- CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION THROUGH "DIG SAFE" AND OTHER APPROPRIATE AGENCIES, AND REPORT ANY DISCREPANCIES TO THIS OFFICE.
 - CONTRACTOR SHALL NOTIFY THIS OFFICE OF ANY AND ALL DISCREPANCIES FOUND BETWEEN THE SITE CONDITIONS AND THOSE SHOWN ON THIS PLAN PRIOR TO CONTINUATION OF ANY WORK.
 - ANY AND ALL CHANGES FROM THE SITE DESIGN LAYOUT SHOWN MUST BE APPROVED BY THIS OFFICE, AND OTHER APPROPRIATE LOCAL OFFICIALS.
 - THE EXCAVATING CONTRACTOR SHALL READ THE ORDER OF CONDITIONS PRIOR TO THE START OF WORK. SHALL HAVE A COPY AT THE SITE AT ALL TIMES AND IS RESPONSIBLE FOR FOLLOWING ALL CONDITIONS AS THEY RELATE TO SITE WORK.
 - THE GENERAL CONTRACTOR (ie: BUILDER) SHALL READ THE ORDER OF CONDITIONS PRIOR TO THE START OF WORK. SHALL HAVE A COPY AT THE SITE AT ALL TIMES AND IS RESPONSIBLE FOR FOLLOWING ALL CONDITIONS AS THEY RELATE TO ALL WORK ON THE PROPERTY.
 - PRIOR TO ANY CONSTRUCTION, CONTRACTOR SHALL INSTALL A STAKED EROSION CONTROL BARRIER SHOWN AND SHALL CONTACT THE CONSERVATION COMMISSION AGENT FOR AN INSPECTION.



SITE INFORMATION:
 LOCATION: OVERLOOK LANE OFF SCOUTIC NECK ROAD
 ASSESSORS MAP: #29
 ASSESSORS LOT: #1E
 NOTE: FORMERLY A PORTION OF #1C SUBDIVISION LOT NO: 6
 CURRENT ZONING DISTRICT: RURAL RESIDENCE (RR)
 MINIMUM LOT AREA: 30,000 Sq.Ft.
 MINIMUM FRONTAGE: 140.00 Ft.
 MIN. CONTIGUOUS UPLAND: 24,000 Sq.Ft.
 FRONT: 30' SIDE: 20'
 REAR: 30'
 FEMA FLOOD ZONE: ZONE X
 F.I.R.M. PANEL NO. 2502300501F
 APPLICANT/OWNER OF RECORD: OVERLOOK REALTY TRUST, LAUREN L. FRANCIS, TRUSTEE
 P.O. BOX 649 FAIRHAVEN, MA 02719
 DEED BOOK 12439, PAGE 214

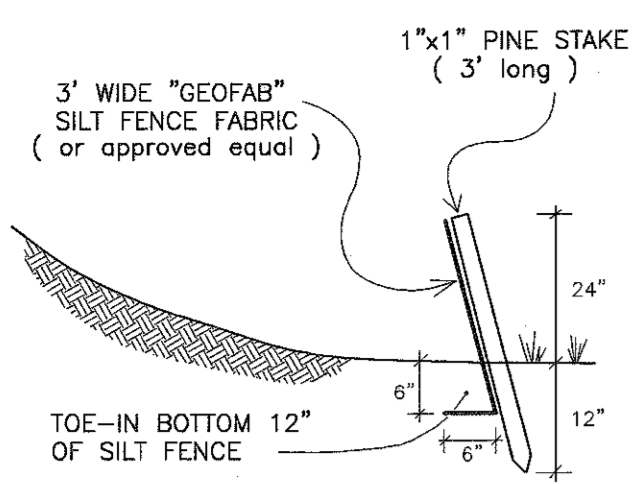
Rev. #	DATE	BY	DESCRIPTION
2	6-07-21	D.M.D.	OMIT FIRE PIT/PATIO, ADD ROOF RUNOFF RECHARGE SYSTEMS, WATER QUALITY SWALE, TREES & SHRUBS
1	5-17-21	D.M.D.	INCREASE BUFFER ZONES, REDUCE HOUSE FOOTPRINT, CHANGE DRIVEWAY SURFACE, ADD PLANTINGS

SITE PLAN
 TO ACCOMPANY A NOTICE OF INTENT FOR SUBDIVISION LOT #6 at OVERLOOK LANE in FAIRHAVEN, MA PREPARED FOR THE OVERLOOK REALTY TRUST

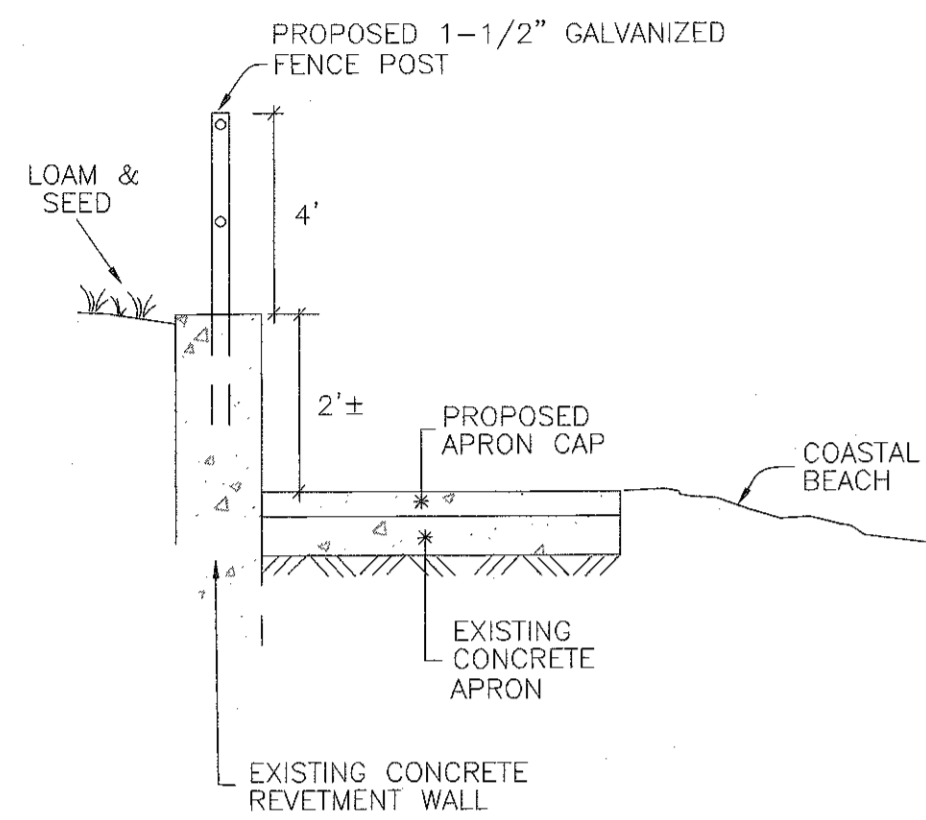
SCALE: 1"=20' DATE: APRIL 19, 2021

SCHNEIDER, DAVIGNON & LEONE, INC.
 PROFESSIONAL CIVIL ENGINEERS & LAND SURVEYORS
 1 COUNTY RD, P.O. BOX 480, MATTAPOISETT, MA 02739
 1-508-758-7868

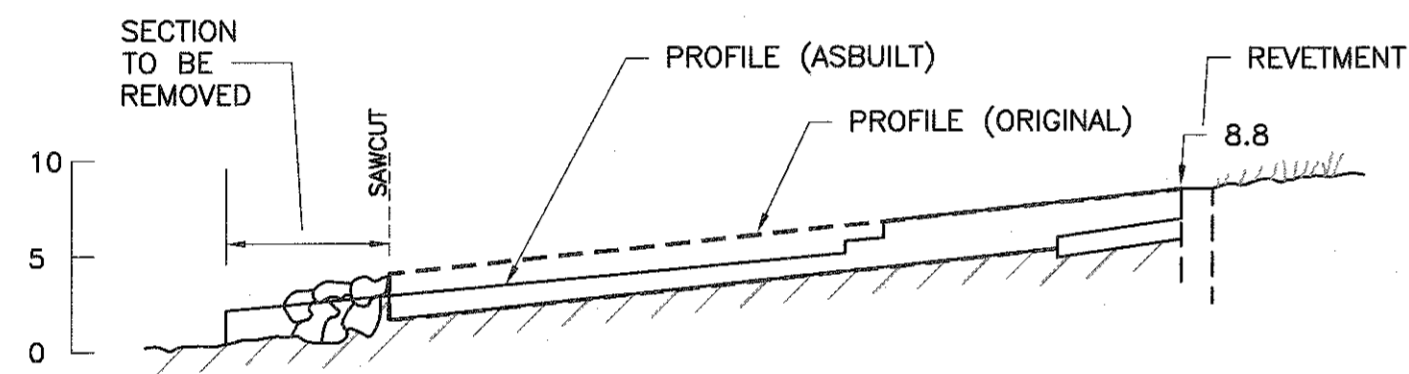
Drawn By: D.M.D. Check By: D.M.D. Job No. 2741



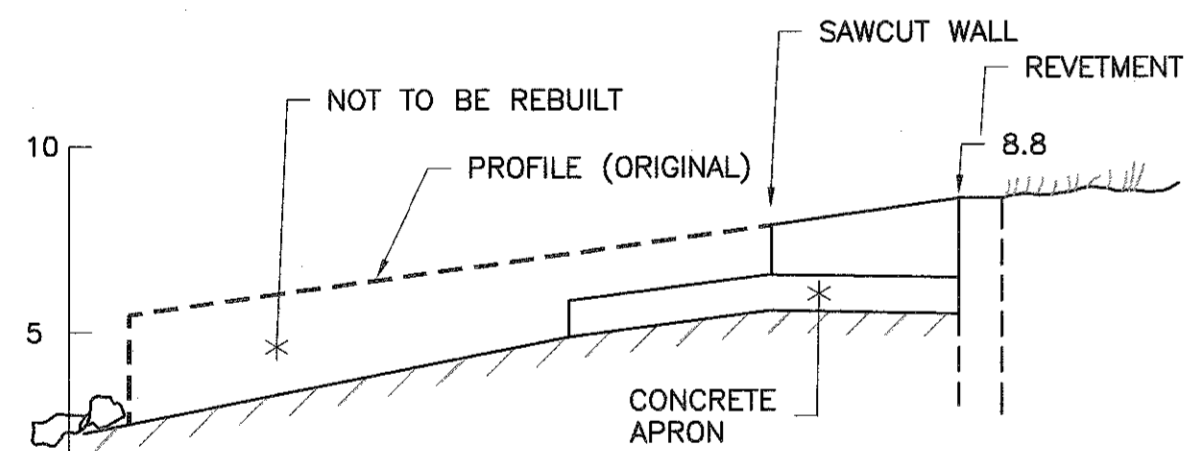
SILT / EROSION CONTROL FENCING
NOT TO SCALE



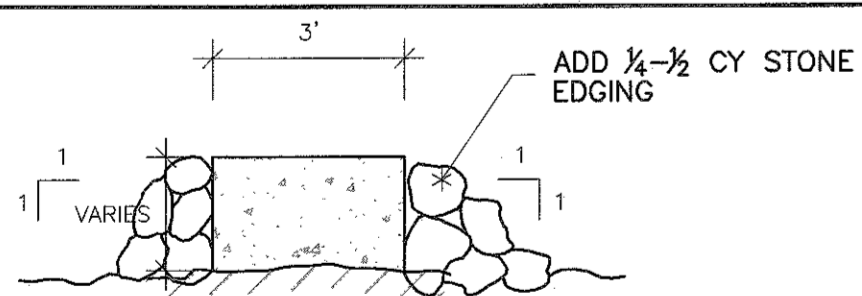
SECTION A-A
(NOT TO SCALE)



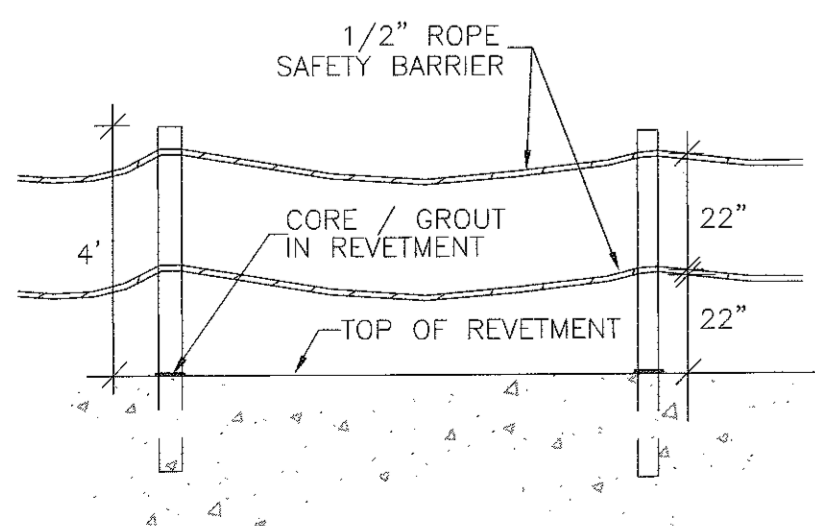
NORTH GROIN
SECTION B-B
1"=10'



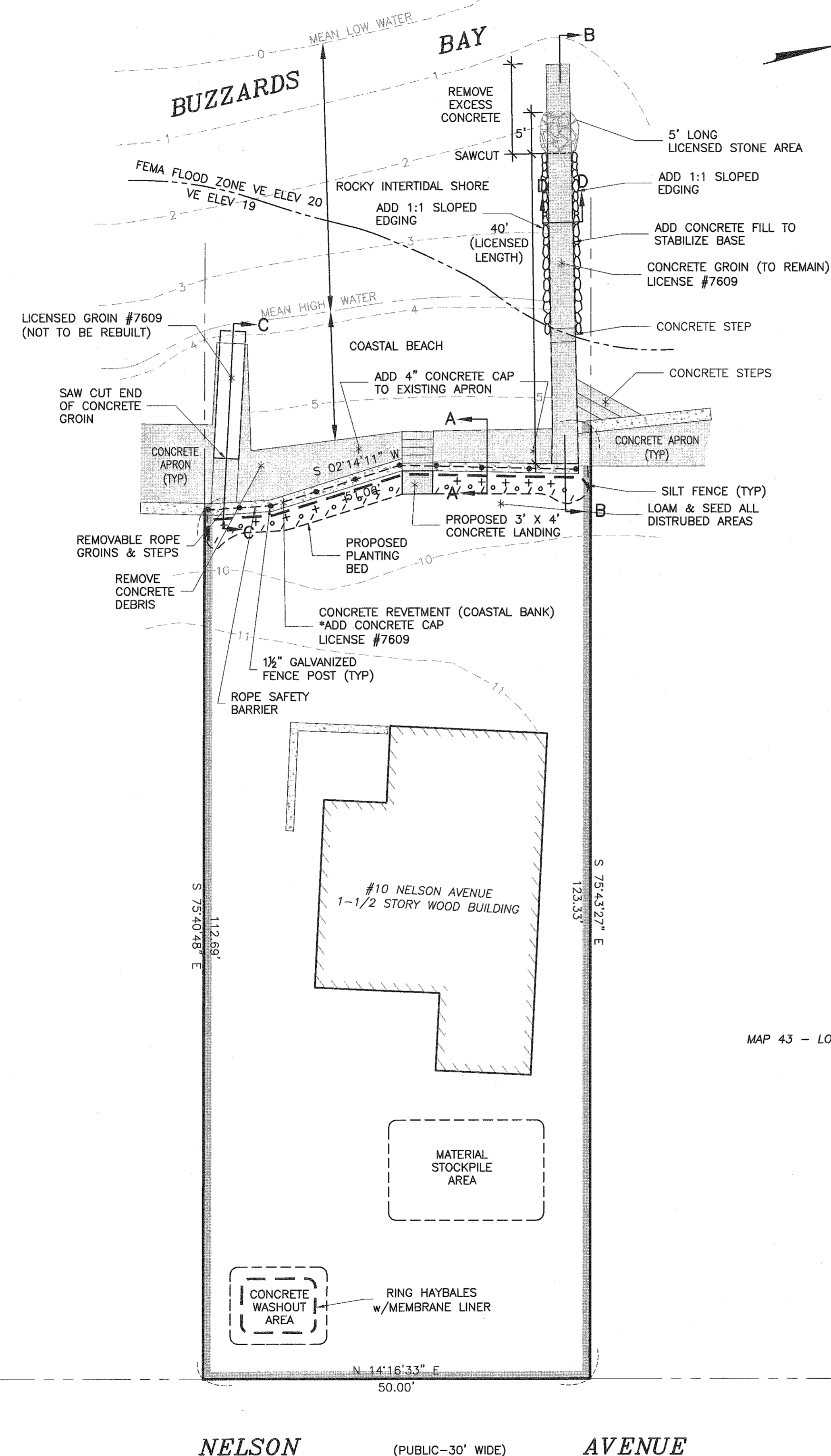
SOUTH GROIN
SECTION C-C
1"=5'



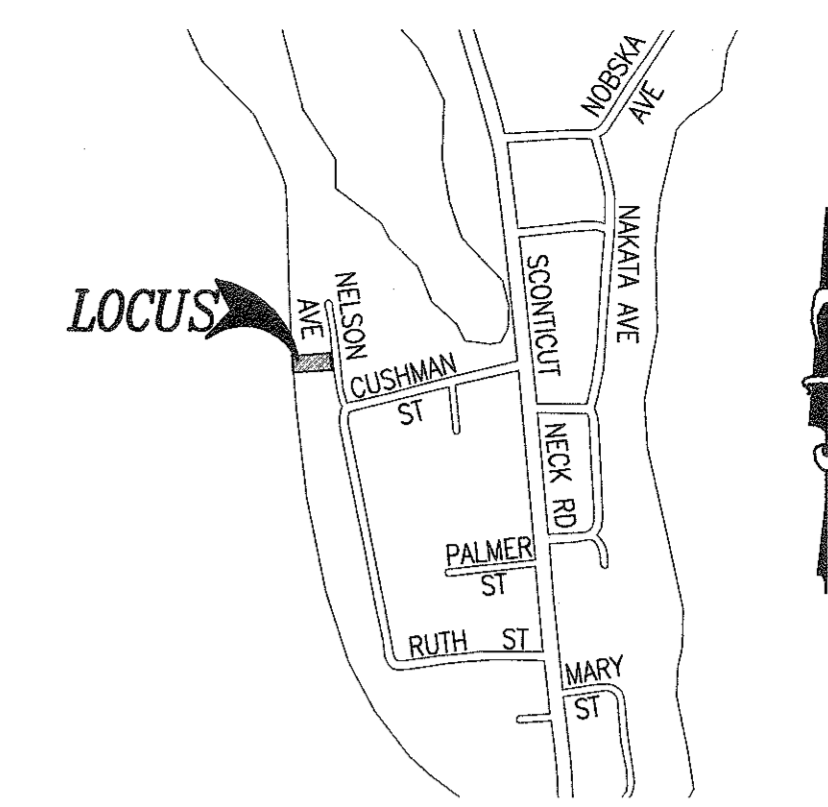
NORTH GROIN
SECTION D-D
1"=3'



ROPE SAFETY BARRIER
(NOT TO SCALE)



MAP 43 - LOT 29



LOCUS MAP
SCALE: 1"=600'±

LEGEND

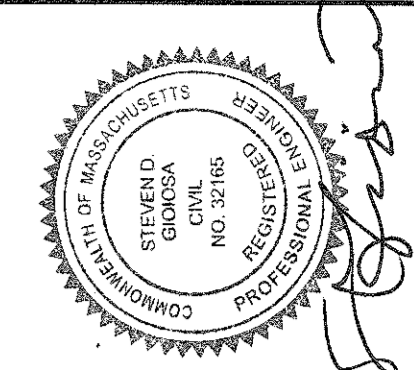
- PROPERTY LINE
- - - - - EXISTING CONTOUR

CONSTRUCTION NOTES

1. ALL WORK DEPICTED ON THIS PLAN IS SUBJECT TO ALL ORDER OF CONDITIONS ISSUED BY THE FAIRHAVEN CONSERVATION COMMISSION. THE CONTRACTOR SHALL HAVE A COPY OF THE ORDER AND APPROVED PLAN ON SITE AT ALL TIME DURING THE CONSTRUCTION PROVIDED.
2. A PRE-CONSTRUCTION MEETING WILL BE SCHEDULED BY THE CONTRACTOR WITH THE CONSERVATION AGENT TO REVIEW THE REQUIREMENTS OUTLINED IN THE ORDER OF CONDITIONS.
3. THE SILT FENCE FOR EROSION CONTROL SHALL BE SET PRIOR TO THE START OF CONSTRUCTION AND MAINTAINED THROUGHOUT THE CONSTRUCTION PROCESS UNTIL ALL DISTURBED AREAS ARE STABILIZED.
4. STOCKPILING OF MATERIALS SHALL BE LIMITED TO THE DESIGNATED UPLAND AREA.
5. IF REQUIRED, A LINED CONCRETE WASHOUT PIT SHALL BE SET IN THE STOCKPILE AREA WITH SILT FENCING SET ALONG THE DOWNGRADIENT PERIMETER OF THE PIT.
6. ALL DISTURBED AREAS SHALL BE IMMEDIATELY STABILIZED WITH LOAM AND SEEDING UPON COMPLETION OF CONSTRUCTION.
7. THE USE OF HEAVY EQUIPMENT ON THE BEACH OR ROCKY INTERTIDAL SHORE IS PROHIBITED.

PLANT LIST

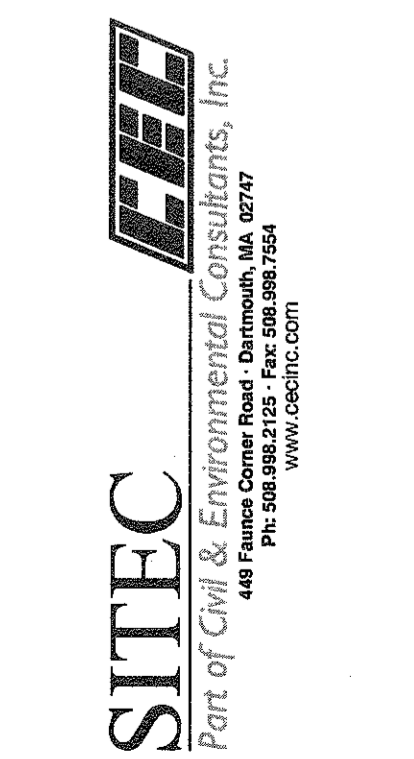
SYMBOL	QUANTITY	NAME
+	11	'EURYBIA SPECTABILIS' Eastern Showy Aster
o	12	'HEMEROCALLIS SPP.' Daylily Stelladora
/	18	'COREOPSIS ROSEA' Pink Tickseed



No.	Date	Revision Description
1	APR. 05, 2021	REVISED DESIGN/ADD PLANTINGS
2	APR. 16, 2021	REVISED PLAN DETAILS
3	MAY 17, 2021	REVISE NORTH GROIN

scale: 1"=10'
date: FEBRUARY 11, 2021
drawn: BPL
checked: SDG
approved: SDG
sheet 1 of 1
drawing number: CSRP-1

project: ASSESSORS MAP 43 - LOT 30
10 NELSON AVENUE
FAIRHAVEN, MASSACHUSETTS
client: THE DELANO IRREVOCABLE TRUST
drawing title: COASTAL STRUCTURE REPAIR PLAN



OWNER/APPLICANT:
THE DELANO IRREVOCABLE TRUST
10 NELSON AVENUE
FAIRHAVEN, MA 02719

PROPOSED IMPROVEMENTS

BELLA VISTA ISLAND

FAIRHAVEN, MA

OWNER:

HEIAM ALSWALHI
FAIRHAVEN, MASSACHUSETTS

PROPERTY:

ASSESSORS MAP 43B, LOTS 326, 359, & 360



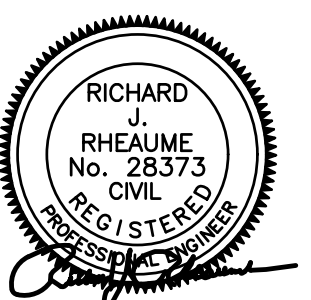
SCHEDULE OF DRAWINGS

SHEET #	PLAN TITLE
-	COVER SHEET
1	EXISTING CONDITIONS PLAN
2	RESOURCE AREAS PLAN
3	ACOP IMPROVEMENTS
4	PROPOSED IMPROVEMENTS PLAN
5	PROPOSED REPLANTING PLAN

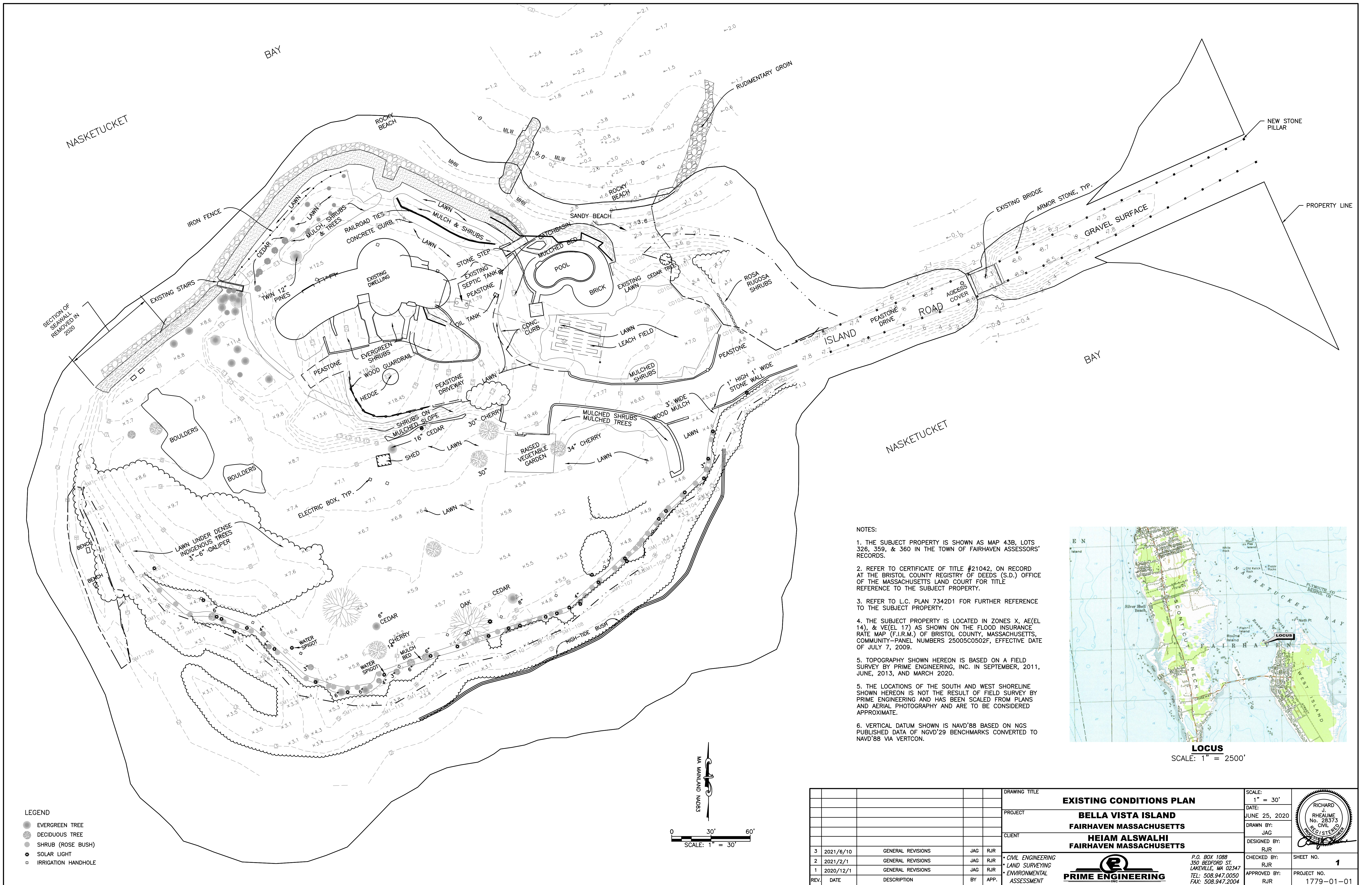
LOCUS
SCALE: 1"=100'
ISSUED: JUNE 25, 2020

REVISED: JUNE 10, 2021

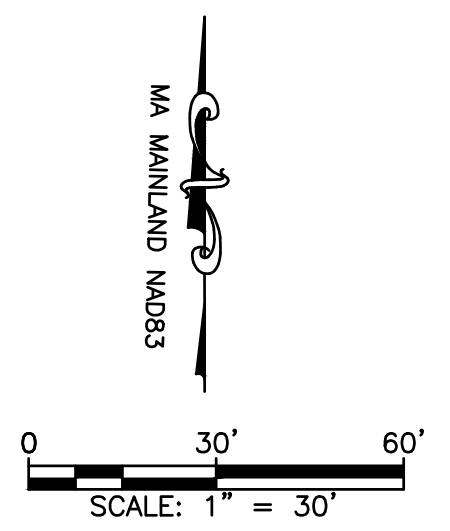
PREPARED BY:



CIVIL ENGINEERING—LAND SURVEYING—ENVIRONMENTAL ASSESSMENT
P.O. BOX 1088, 350 BEDFORD STREET, LAKEVILLE, MA 02347
TEL: 508.947.0050 FAX: 508.947.2004



- LEGEND**
- EVERGREEN TREE
 - DECIDUOUS TREE
 - SHRUB (ROSE BUSH)
 - ⊛ SOLAR LIGHT
 - IRRIGATION HANDHOLE



- NOTES:**
1. THE SUBJECT PROPERTY IS SHOWN AS MAP 43B, LOTS 326, 359, & 360 IN THE TOWN OF FAIRHAVEN ASSESSORS' RECORDS.
 2. REFER TO CERTIFICATE OF TITLE #21042, ON RECORD AT THE BRISTOL COUNTY REGISTRY OF DEEDS (S.D.) OFFICE OF THE MASSACHUSETTS LAND COURT FOR TITLE REFERENCE TO THE SUBJECT PROPERTY.
 3. REFER TO L.C. PLAN 7342D1 FOR FURTHER REFERENCE TO THE SUBJECT PROPERTY.
 4. THE SUBJECT PROPERTY IS LOCATED IN ZONES X, AE(EL 14), & VE(EL 17) AS SHOWN ON THE FLOOD INSURANCE RATE MAP (F.I.R.M.) OF BRISTOL COUNTY, MASSACHUSETTS, COMMUNITY-PANEL NUMBERS 25005C0502F, EFFECTIVE DATE OF JULY 7, 2009.
 5. TOPOGRAPHY SHOWN HEREON IS BASED ON A FIELD SURVEY BY PRIME ENGINEERING, INC. IN SEPTEMBER, 2011, JUNE, 2013, AND MARCH 2020.
 5. THE LOCATIONS OF THE SOUTH AND WEST SHORELINE SHOWN HEREON IS NOT THE RESULT OF FIELD SURVEY BY PRIME ENGINEERING AND HAS BEEN SCALED FROM PLANS AND AERIAL PHOTOGRAPHY AND ARE TO BE CONSIDERED APPROXIMATE.
 6. VERTICAL DATUM SHOWN IS NAVD'88 BASED ON NGS PUBLISHED DATA OF NGVD'29 BENCHMARKS CONVERTED TO NAVD'88 VIA VERTCON.

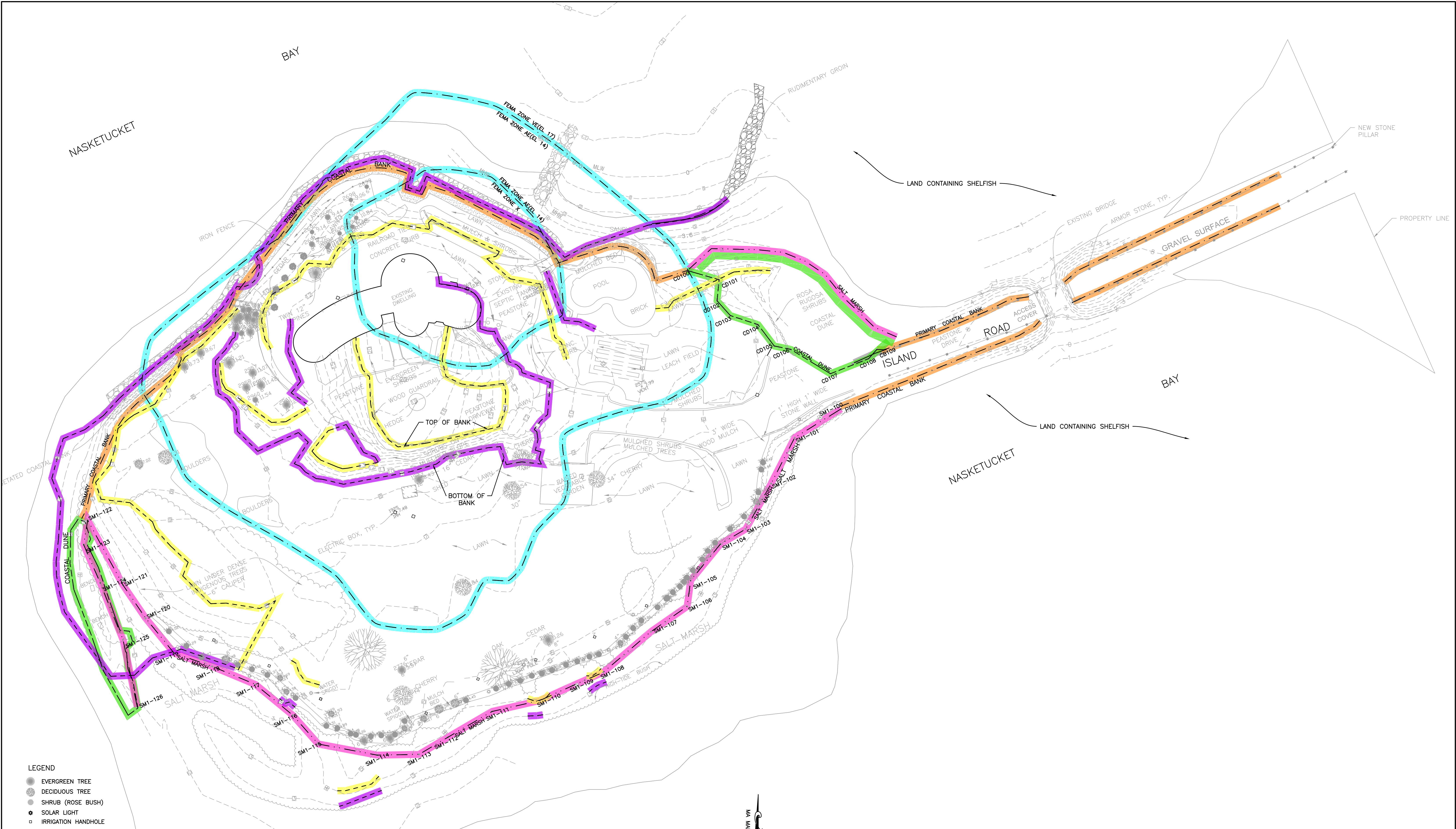


DRAWING TITLE		EXISTING CONDITIONS PLAN		SCALE:	1" = 30'
PROJECT		BELLA VISTA ISLAND FAIRHAVEN MASSACHUSETTS		DATE:	JUNE 25, 2020
CLIENT		HEIAM ALSWALHI FAIRHAVEN MASSACHUSETTS		DRAWN BY:	JAG
REV.		DATE	DESCRIPTION	DESIGNED BY:	RJR
3	2021/6/10	GENERAL REVISIONS	JAG RJR	CHECKED BY:	RJR
2	2021/2/1	GENERAL REVISIONS	JAG RJR	APPROVED BY:	RJR
1	2020/12/1	GENERAL REVISIONS	JAG RJR		
		DESCRIPTION	BY		

PRIME ENGINEERING
INC.

P.O. BOX 1088
350 BEDFORD ST.
LAKEVILLE, MA 02347
TEL: 508.947.0050
FAX: 508.947.2004


RICHARD J. RHEAUME
No. 26373
REGISTERED
CIVIL ENGINEER



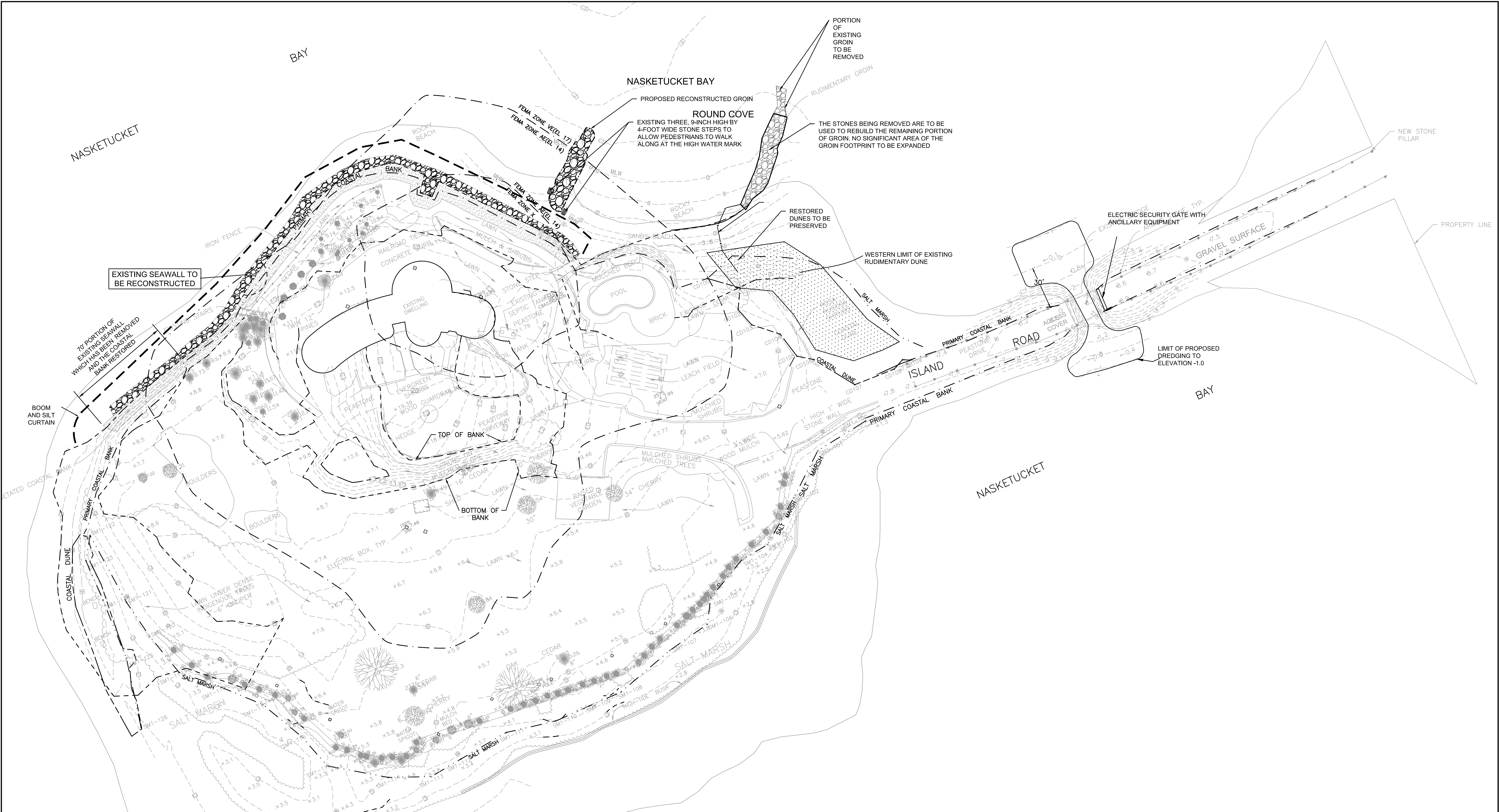
- LEGEND**
- EVERGREEN TREE
 - DECIDUOUS TREE
 - SHRUB (ROSE BUSH)
 - ⊛ SOLAR LIGHT
 - IRRIGATION HANDHOLE

- RESOURCE AREA LEGEND**
- PRIMARY COASTAL BANK
 - COASTAL DUNE
 - UPGRADIENT EDGE OF SALT MARSH
 - TOP OF COASTAL BANK
 - BOTTOM OF COASTAL BANK
 - FEMA ZONE (SCALED FROM FEMA MAP)



DRAWING TITLE		RESOURCE AREAS PLAN		SCALE:	1" = 30'
PROJECT		BELLA VISTA ISLAND FAIRHAVEN MASSACHUSETTS		DATE:	JUNE 25, 2020
CLIENT		HEIAM ALSWALHI FAIRHAVEN MASSACHUSETTS		DRAWN BY:	JAG
REV.		DATE	DESCRIPTION	BY	APP.
3	2021/6/10	GENERAL REVISIONS		JAG	RJR
2	2021/2/1	GENERAL REVISIONS		JAG	RJR
1	2020/12/1	GENERAL REVISIONS		JAG	RJR
CIVIL ENGINEERING				CHECKED BY:	RJR
LAND SURVEYING		P.O. BOX 1088 350 BEDFORD ST. LAKEVILLE, MA 02347 TEL: 508.947.0050 FAX: 508.947.2004		APPROVED BY:	RJR
ENVIRONMENTAL ASSESSMENT				SHEET NO.	2
				PROJECT NO.	1779-01-01





EXISTING SEAWALL TO BE RECONSTRUCTED

NASKETUCKET BAY
 PROPOSED RECONSTRUCTED GROIN
 ROUND COVE
 EXISTING THREE, 9-INCH HIGH BY 4-FOOT WIDE STONE STEPS TO ALLOW PEDESTRIANS TO WALK ALONG AT THE HIGH WATER MARK

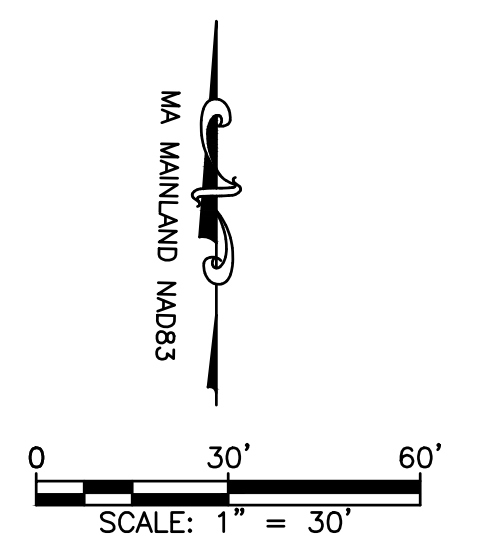
PORION OF EXISTING GROIN TO BE REMOVED
 THE STONES BEING REMOVED ARE TO BE USED TO REBUILD THE REMAINING PORTION OF GROIN. NO SIGNIFICANT AREA OF THE GROIN FOOTPRINT TO BE EXPANDED

ELECTRIC SECURITY GATE WITH ANCILLARY EQUIPMENT

LIMIT OF PROPOSED DREDGING TO ELEVATION -1.0


- LEGEND**
- EVERGREEN TREE
 - DECIDUOUS TREE
 - SHRUB (ROSE BUSH)
 - SOLAR LIGHT
 - IRRIGATION HANDHOLE
- RESOURCE AREA LEGEND**
- PRIMARY COASTAL BANK
 - COASTAL DUNE
 - UPGRADIENT EDGE OF SALT MARSH
 - BOTTOM OF COASTAL BANK
 - TOP OF COASTAL BANK
 - FEMA ZONE (SCALED FROM FEMA MAP)

GENERAL NOTES:
 1. THE SHOREFRONT IMPROVEMENTS PLANS ARE REQUIRED TO BE ON MEAN LOW WATER DATUM. REFER TO SEPARATE PLANS FOR THOSE FEATURES.



THIS PLAN PRESENTS THE IMPROVEMENTS MANDATED BY THE ADMINISTRATIVE CONSENT ORDER (ISSUED BY MA DEP ACOP) REFER TO LARGER SCALE PLANS FOR MORE DETAILS

DRAWING TITLE		ACOP IMPROVEMENTS PLAN		SCALE:	1" = 30'
PROJECT		BELLA VISTA ISLAND FAIRHAVEN MASSACHUSETTS		DATE:	JUNE 25, 2020
CLIENT		HEIAM ALSWALHI FAIRHAVEN MASSACHUSETTS		DRAWN BY:	JAG
REV.		DATE	DESCRIPTION	DESIGNED BY:	RJR
2	2021/6/10	GENERAL REVISIONS	JAG RJR	CHECKED BY:	RJR
1	2021/2/1	GENERAL REVISIONS	JAG RJR	APPROVED BY:	RJR
BY		APP.		CIVIL ENGINEERING	
APP.				LAND SURVEYING	
				ENVIRONMENTAL ASSESSMENT	



PRIME ENGINEERING
INC.

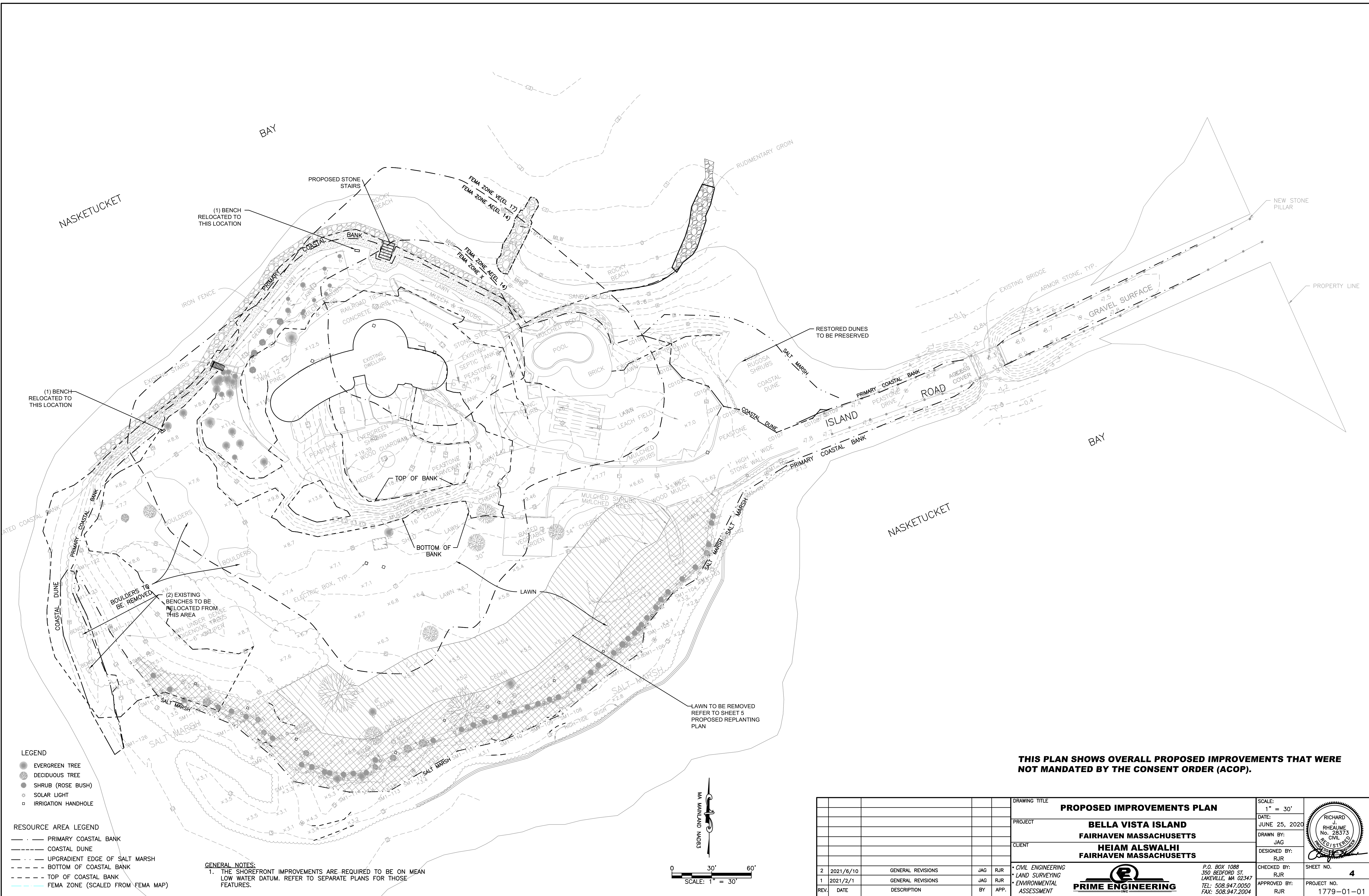
P.O. BOX 1088
350 BEDFORD ST.
LAKEVILLE, MA 02347
TEL: 508.947.0050
FAX: 508.947.2004

CHECKED BY: RJR

APPROVED BY: RJR

SHEET NO. **3**

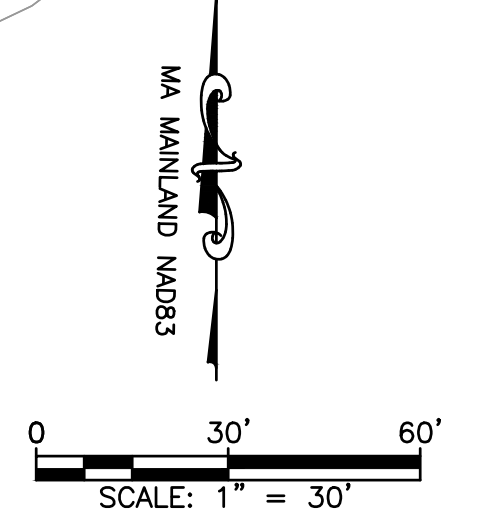
PROJECT NO. 1779-01-01



- LEGEND**
- EVERGREEN TREE
 - DECIDUOUS TREE
 - SHRUB (ROSE BUSH)
 - SOLAR LIGHT
 - IRRIGATION HANDHOLE

- RESOURCE AREA LEGEND**
- PRIMARY COASTAL BANK
 - COASTAL DUNE
 - - - UPGRADIENT EDGE OF SALT MARSH
 - BOTTOM OF COASTAL BANK
 - TOP OF COASTAL BANK
 - FEMA ZONE (SCALED FROM FEMA MAP)

GENERAL NOTES:
 1. THE SHOREFRONT IMPROVEMENTS ARE REQUIRED TO BE ON MEAN LOW WATER DATUM. REFER TO SEPARATE PLANS FOR THOSE FEATURES.

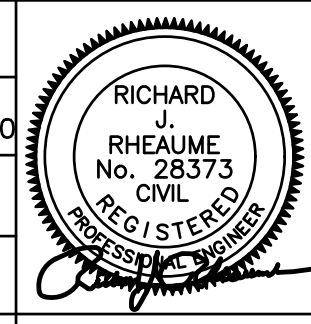


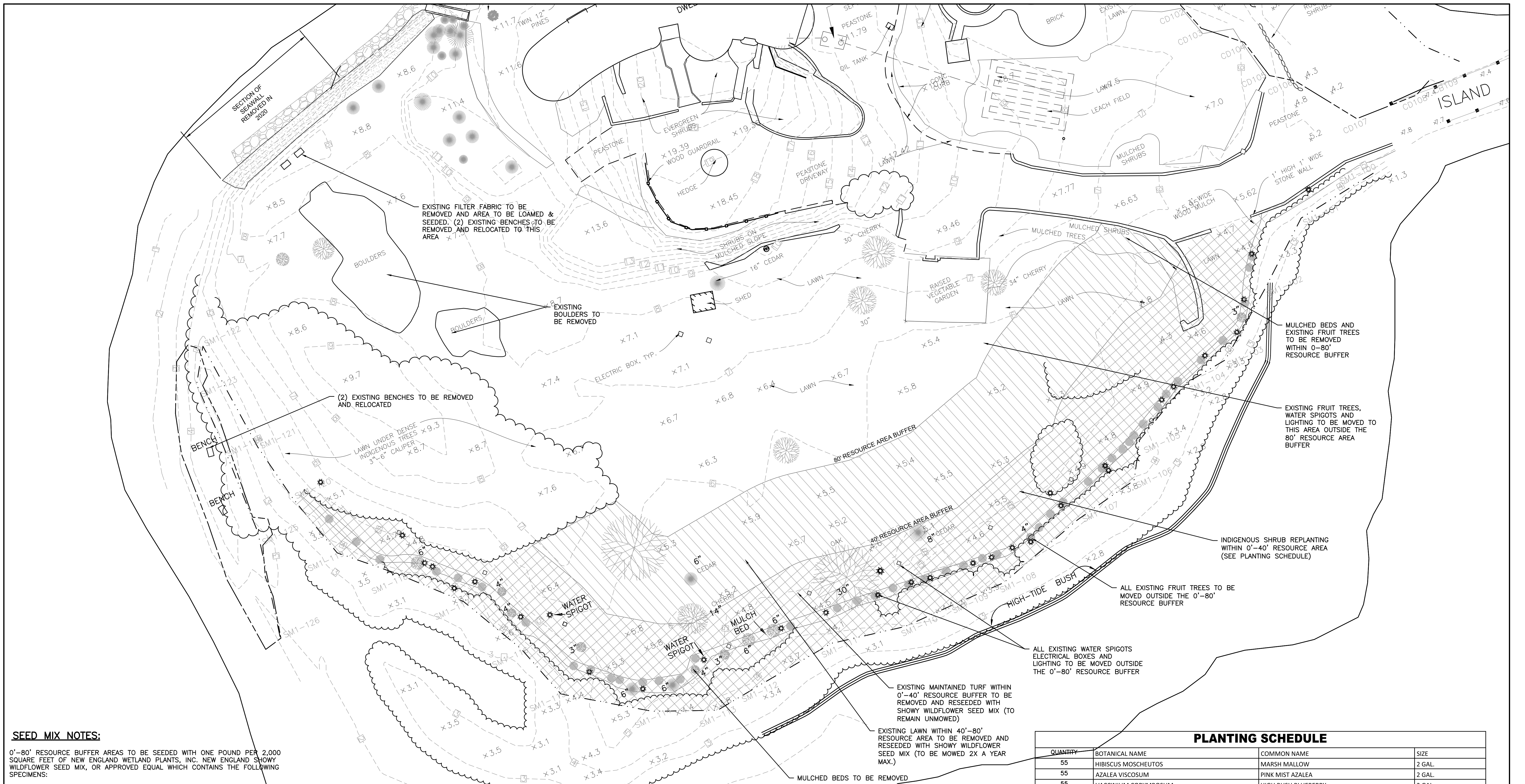
THIS PLAN SHOWS OVERALL PROPOSED IMPROVEMENTS THAT WERE NOT MANDATED BY THE CONSENT ORDER (ACOP).

DRAWING TITLE		PROPOSED IMPROVEMENTS PLAN		SCALE:	1" = 30'
PROJECT		BELLA VISTA ISLAND FAIRHAVEN MASSACHUSETTS		DATE:	JUNE 25, 2020
CLIENT		HEIAM ALSWALHI FAIRHAVEN MASSACHUSETTS		DRAWN BY:	JAG
REV.		DATE	DESCRIPTION	DESIGNED BY:	RJR
2	2021/6/10	GENERAL REVISIONS	JAG RJR	CHECKED BY:	RJR
1	2021/2/1	GENERAL REVISIONS	JAG RJR	APPROVED BY:	RJR
BY		APP.		PROJECT NO.	
				1779-01-01	



P.O. BOX 1088
 350 BEDFORD ST.
 LAKEVILLE, MA 02347
 TEL: 508.947.0050
 FAX: 508.947.2004





SEED MIX NOTES:

0'-80' RESOURCE BUFFER AREAS TO BE SEEDED WITH ONE POUND PER 2,000 SQUARE FEET OF NEW ENGLAND WETLAND PLANTS, INC. NEW ENGLAND SHOWY WILDFLOWER SEED MIX, OR APPROVED EQUAL WHICH CONTAINS THE FOLLOWING SPECIMENS:

Botanical Name	Common Name	Indicator
<i>Schizachyrium scoparium</i>	Little Bluestem	FACU
<i>Chamaecrista fasciculata</i>	Partridge Pea	FACU
<i>Sorghastrum nutans</i>	Indian Grass	UPL
<i>Festuca rubra</i>	Red Fescue	FACU
<i>Elymus canadensis</i>	Canada Wild Rye	FACU+
<i>Elymus riparius</i>	Riverbank Wild Rye	FACW
<i>Helopsis helianthoides</i>	Ox Eye Sunflower	UPL
<i>Coreopsis lanceolata</i>	Lance Leaved Coreopsis	FACU
<i>Rudbeckia hirta</i>	Black Eyed Susan	FACU-
<i>Liatris spicata</i>	Spiked Gayfeather/Marsh Blazing Star	FAC+
<i>Asclepias syriaca</i>	Common Milkweed	FACU-
<i>Yernonia noveboracensis</i>	New York Ironweed	FACW+
<i>Aster novae-angliae (Symphyotrichum novae-angliae)</i>	New England Aster	FACW-
<i>Eupatorium purpureum (Eutrochium maculatum)</i>	Purple Joe Pye Weed	FAC
<i>Asclepias tuberosa</i>	Butterfly Milkweed	NI
<i>Solidago juncea</i>	Early Goldenrod	FACW
<i>Eupatorium perfoliatum</i>	Boneset	FACW

LEGEND

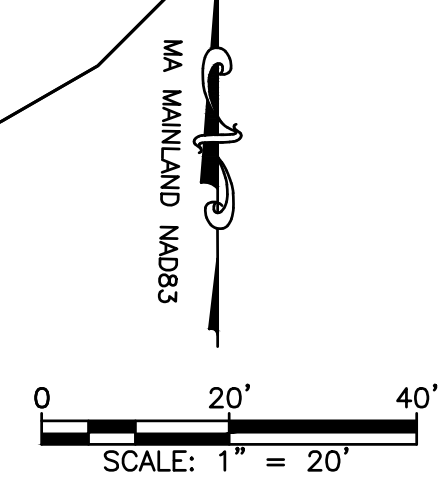
- EXISTING EVERGREEN TREE
- EXISTING DECIDUOUS TREE
- EXISTING SHRUB (ROSE BUSH)
- ★ EXISTING SOLAR LIGHT
- EXISTING IRRIGATION HANDHOLE

40'-80' RESOURCE BUFFER AREA

- LAWN TO BE REMOVED
- MULCHED BEDS TO BE REMOVED
- RESEEDED WITH SHOWY WILDFLOWER MIX
- PROPOSED MEADOW TO BE MOWED 2X A YEAR MAXIMUM.

0'-40' RESOURCE BUFFER AREA

- EXISTING FRUIT TREES, LIGHTING AND SPIGOTS TO BE REMOVED AND RELOCATED OUTSIDE THE 80' RESOURCE BUFFER AREA
- EXISTING LAWN TO BE REMOVED
- AREA TO BE REPLANTED WITH INDIGENOUS SHRUBS (SEE SCHEDULE)
- RESEEDED WITH SHOWY WILDFLOWER MIX
- TO REMAIN UNMOWED

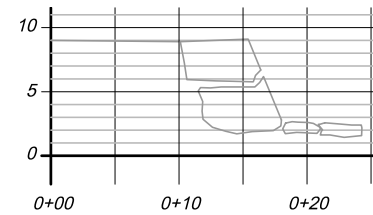
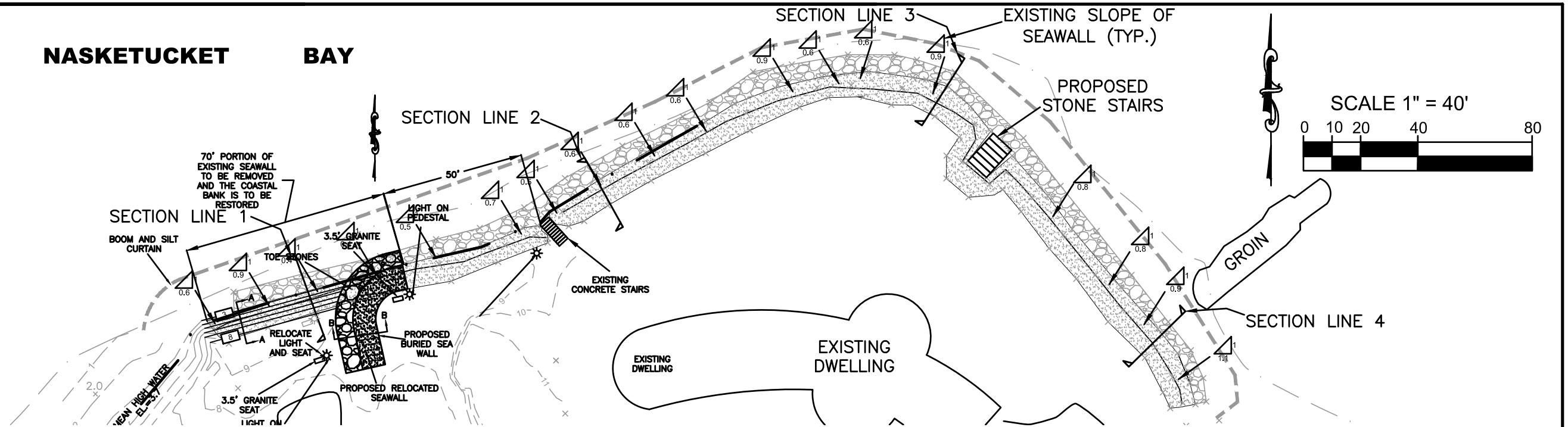


QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE
55	HIBISCUS MOSCHEUTOS	MARSH MALLOW	2 GAL.
55	AZALEA VISCOSUM	PINK MIST AZALEA	2 GAL.
55	VACCINIUM CORYMBOSUM	HIGH BUSH BLUEBERRY	2 GAL.
51	ILEX VERTICILLATA	WINTERBERRY FEMALE	3 GAL.
4	ILEX VERTICILLATA	WINTERBERRY MALE	3 GAL.
55	MYRICA PENNSYLVANICA	BAYBERRY	2 GAL.

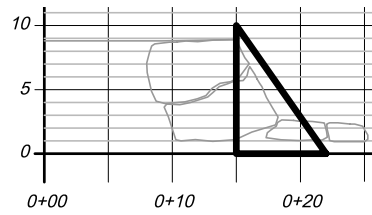
DRAWING TITLE PROPOSED PLANTING PLAN		SCALE: 1" = 20'
PROJECT BELLA VISTA ISLAND FAIRHAVEN MASSACHUSETTS		DATE: APRIL 5, 2021
CLIENT HEIAM ALSWALHI FAIRHAVEN MASSACHUSETTS		DRAWN BY: JAG
DESIGNED BY: RJR		CHECKED BY: RJR
APPROVED BY: RJR		SHEET NO. 5
2 2021/6/10 GENERAL REVISIONS JAG RJR 1 4/16/2021 RESPONSE TO COMMENTS JAG RJR REV. DATE DESCRIPTION BY APP.		P.O. BOX 1088 350 BEDFORD ST. LAKEVILLE, MA 02347 TEL: 508.947.0050 FAX: 508.947.2004



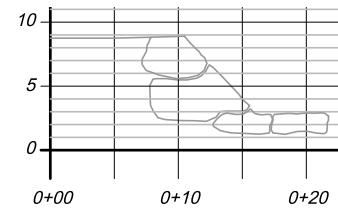
NASKETUCKET BAY



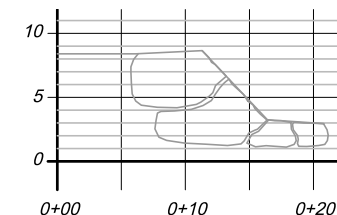
SECTION VIEW 1 - EXISTING



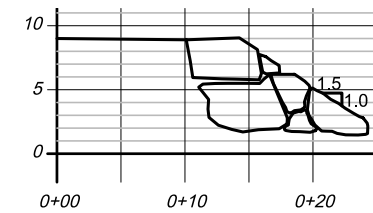
SECTION VIEW 2 - EXISTING



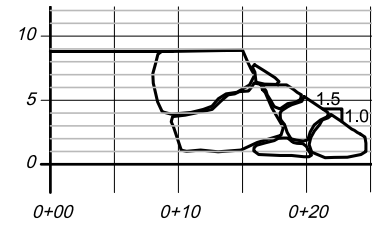
SECTION VIEW 3 - EXISTING



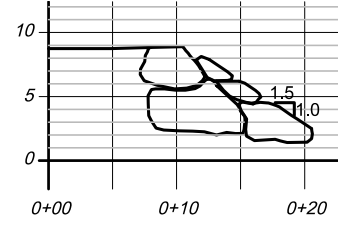
SECTION VIEW 4 - EXISTING



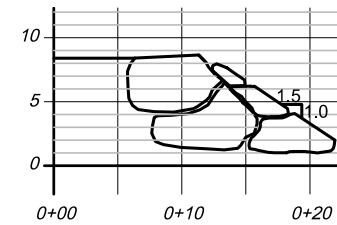
SECTION VIEW 1 - PROPOSED



SECTION VIEW 2 - PROPOSED

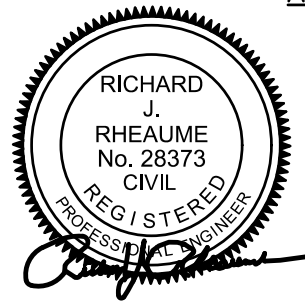


SECTION VIEW 3 - PROPOSED



SECTION VIEW 4 - PROPOSED

ALL CROSS SECTIONS
SCALE: 1" = 5'



SEAWALL PLAN AND CROSS SECTIONS

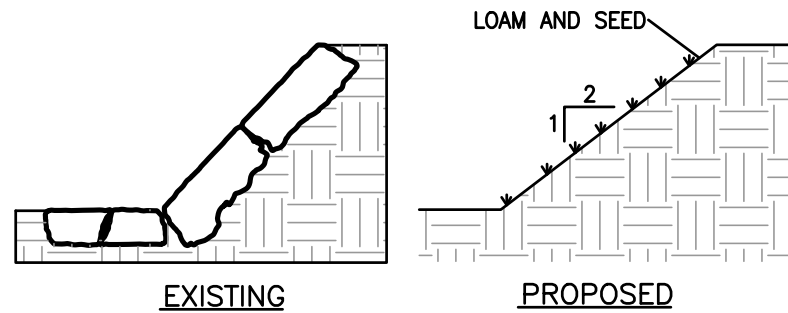
ACCOMPANYING THE PETITION OF
HEIAM ALSAWALHI
PROPOSED SEAWALL PERMITTING
ROUND COVE/NASKETUCKET BAY
BELLA VISTA ISLAND, FAIRHAVEN, MA

EXHIBIT A



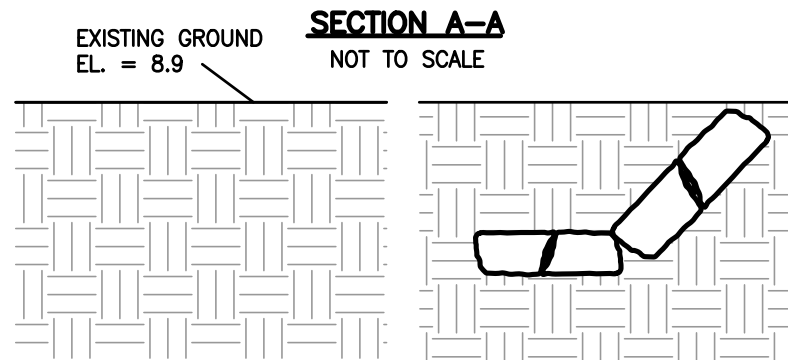
DATE: JUNE 10, 2021

SHEET 1 OF 4



EXISTING

PROPOSED



SECTION A-A
NOT TO SCALE

EXISTING

PROPOSED

SECTION B-B
NOT TO SCALE

NOTES

1. THE VERTICAL DATUM SHOWN NAVD'88, BASED ON NGS PUBLISHED DATA OF NGVD'29 BENCHMARKS CONVERTED TO NAVD'88 VERTCON.
2. THE SUBJECT PROPERTY IS SHOWN ON THE TOWN OF FAIRHAVEN ASSESSORS' MAP 43B AS LOTS 326, 359 & 360

70' OF THE WESTERN END OF THE SEAWALL, ALONG WITH THE ANCILLARY TOE STONES, ARE TO BE REMOVED AS SHOWN ON THESE PLANS. THE COASTAL BANK IS TO BE RECONSTRUCTED BY THE PLACEMENT OF ORDINARY EARTH AT A SLOPE COMPARABLE TO THE EXISTING COASTAL BANK TO THE IMMEDIATE SOUTH. THE SURFACE SHALL BE SEEDED WITH GRASS SEED AND COVERED WITH JUTE NETTING OR A COMPARABLE TEMPORARY EROSION MATTING. THE ROCKY BEACH IN FRONT OF THE COASTAL BANK IS TO BE FILLED WITH SAND AND COBBLES TO A GRADE COMPARABLE TO THE ADJOINING BEACH. THE STONES RECOVERED FROM THE SEAWALL REMOVAL SHALL BE USED TO TURN THE THEN REMAINING WESTERN END OF THE SEAWALL SOUTHERLY INTO THE ISLAND WHERE BOTH SIDES OF THE SEAWALL WILL BE BURIED, AS SHOWN ON THE PLAN. THE WORK WILL BE PERFORMED WITH AN EXCAVATOR ON TRACKS WITH THE MAJORITY OF THE WORK BEING PERFORMED WITH THE EXCAVATOR POSITIONED LANDWARD OF THE EXISTING SEAWALL. A BOOM AND SILT CURTAIN SHALL BE EMPLOYED THROUGHOUT CONSTRUCTION.

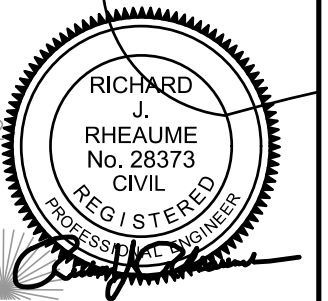
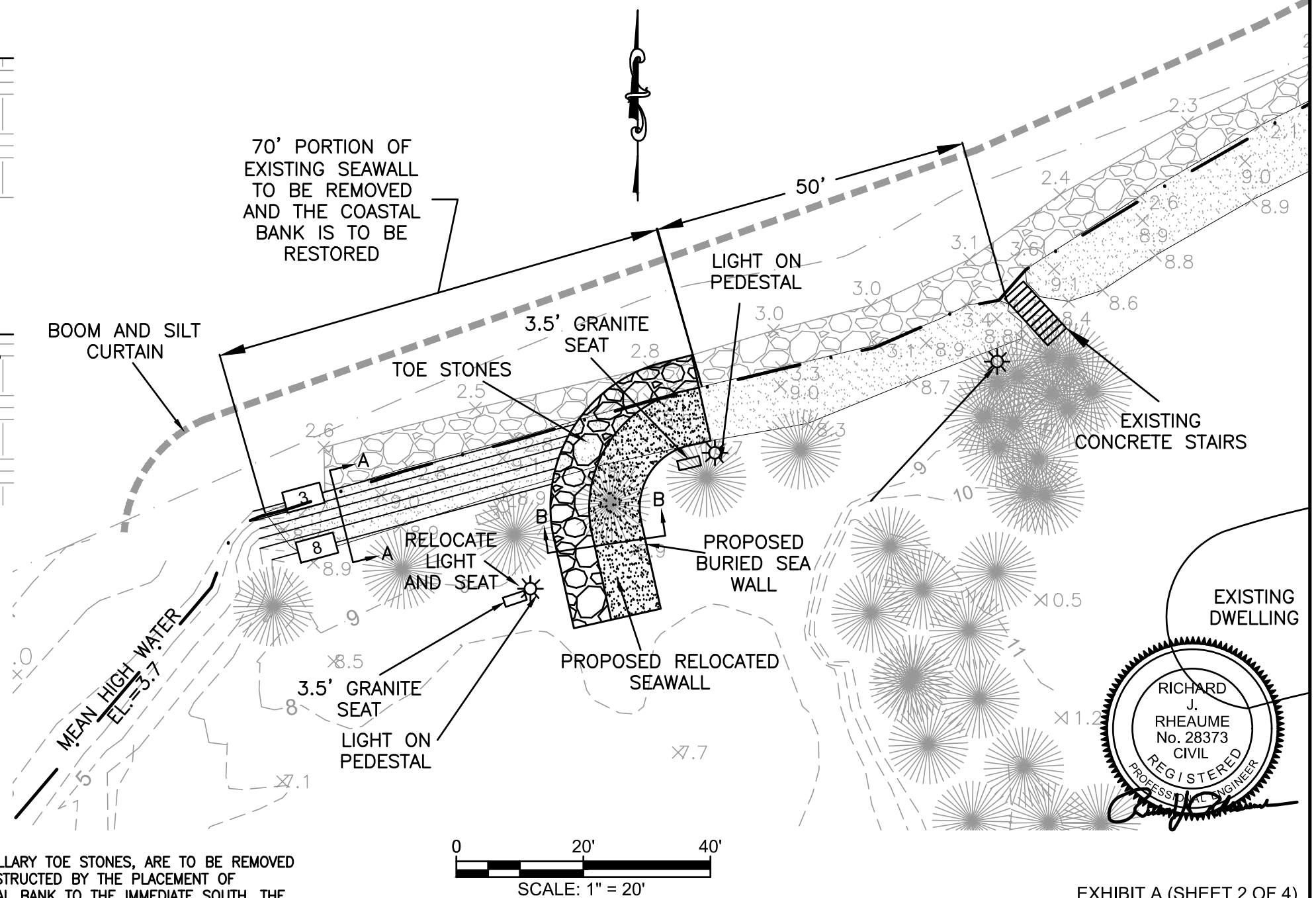


EXHIBIT A (SHEET 2 OF 4)

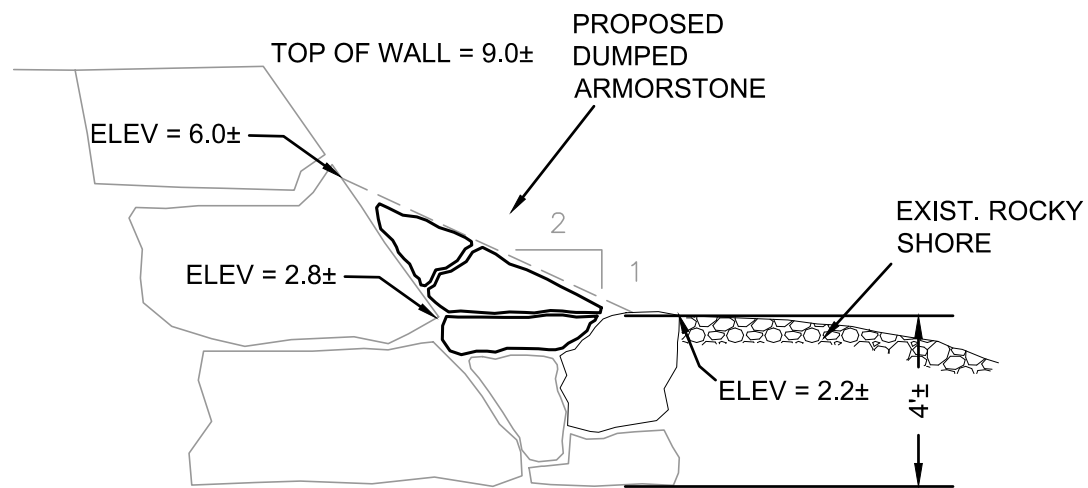
SEAWALL PLAN

ACCOMPANYING THE PETITION OF HEIAM ALSAWALHI
PROPOSED SEAWALL PERMITTING
ROUND COVE/NASKETUCKET BAY
BELLA VISTA ISLAND, FAIRHAVEN, MA

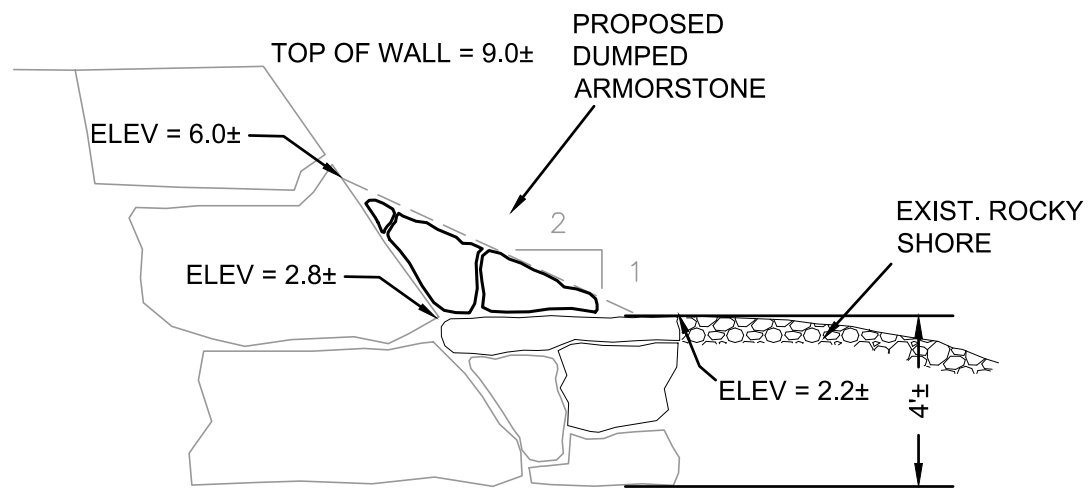
PROPOSED PLAN



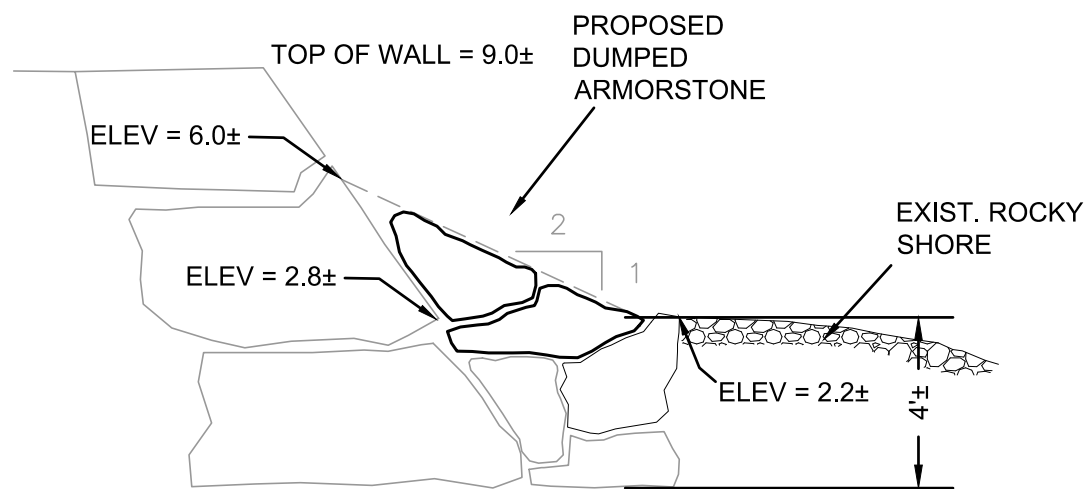
ISSUED: JUNE 10, 2021



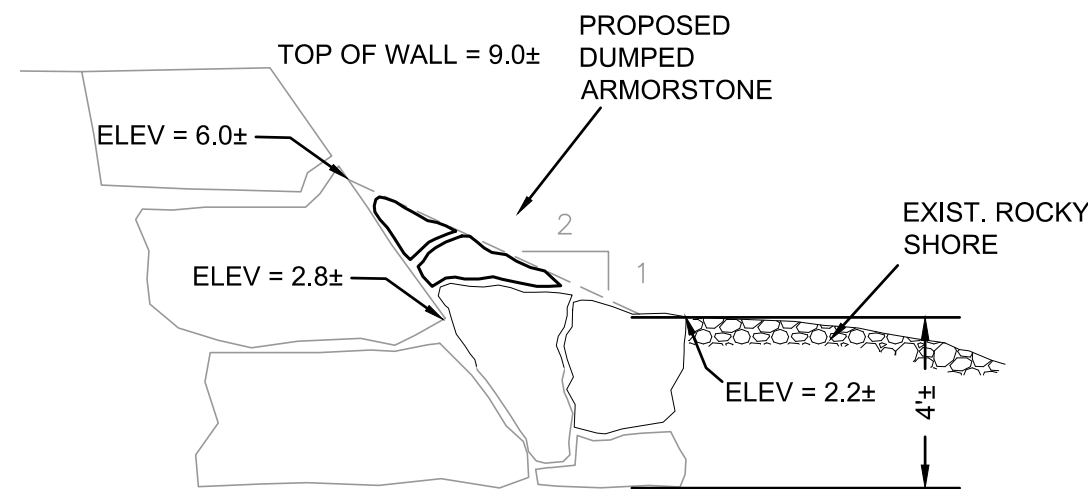
PROPOSED SEAWALL CROSS SECTION
N.T.S.



PROPOSED SEAWALL CROSS SECTION
N.T.S.



PROPOSED SEAWALL CROSS SECTION
N.T.S.



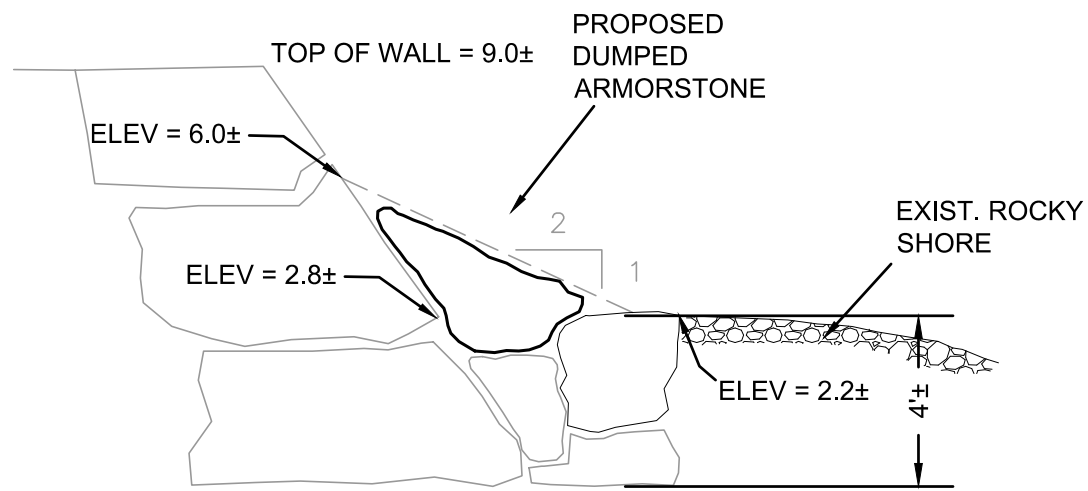
PROPOSED SEAWALL CROSS SECTION
N.T.S.



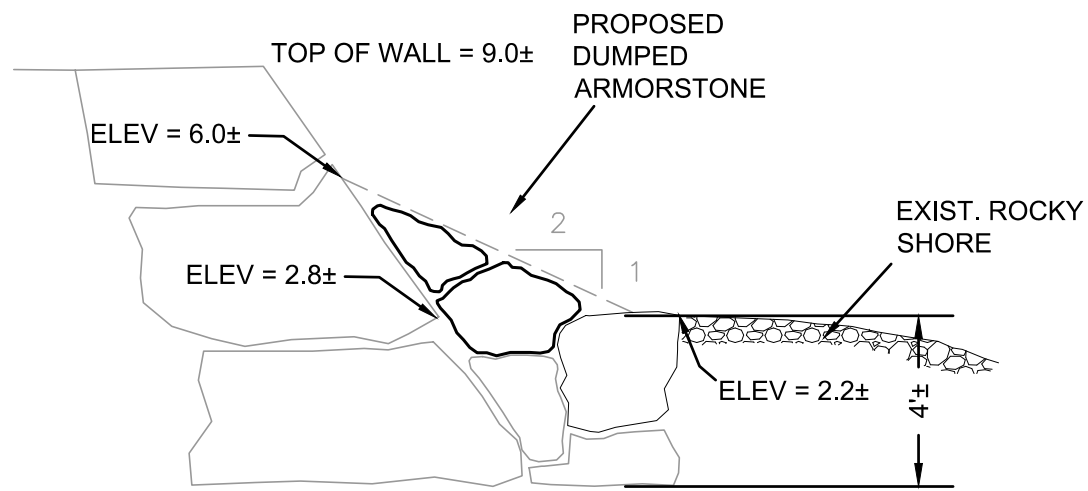
EXHIBIT A (SHEET 3 OF 4)

THE SEAWARD FACE OF THE REMAINING WALL IS TO BE RECONSTRUCTED AS SHOWN ON THESE PLANS. THE PURPOSE OF THE WORK IS TO REDUCE THE STEEPNESS OF THE SEAWALL FACE BY THE PLACEMENT OF DUMPED ARMOR STONE. DEPENDENT ON THE SIZE AND SHAPE OF THE SPECIFIC IMPORTED ROCKS, THE WORK MAY, IN SOME CASES, REQUIRE THE REMOVAL OF SOME OF THE EXISTING TOE STONES. IN OTHER CASES, THE IMPORTED ROCKS WILL BE OF ADEQUATE SIZE AND SHAPE THAT THEY CAN BE PLACED ON TOP OF THE EXISTING TOE STONES. THE INTENT OF THE WORK IS TO ESTABLISH AN AVERAGE SLOPE OF 2:1 WITH NO SIGNIFICANT PORTION OF THE SLOPE STEEPER THAN 1:1 AND NO SIGNIFICANT PORTION OF THE WALL AT A SLOPE FLATTER THAN 3:1. IN NO CASE IS THE DUMPED ARMOR STONE TO EXTEND BEYOND THE SEAWARD EXTENT OF THE CURRENT TOE STONES. THE WORK IS TO BE DONE BY AN EXCAVATOR ON TRACKS OPERATING PRIMARILY FROM MID TO LOW TIDES. THE EXCAVATOR WILL BE STAGED PARTIALLY ON EXISTING TOE STONES AND PARTIALLY ON THE ROCKY BEACH. FLOATING BOOMS WITH SILT CURTAINS WILL BE EMPLOYED THROUGHOUT THE CONSTRUCTION.

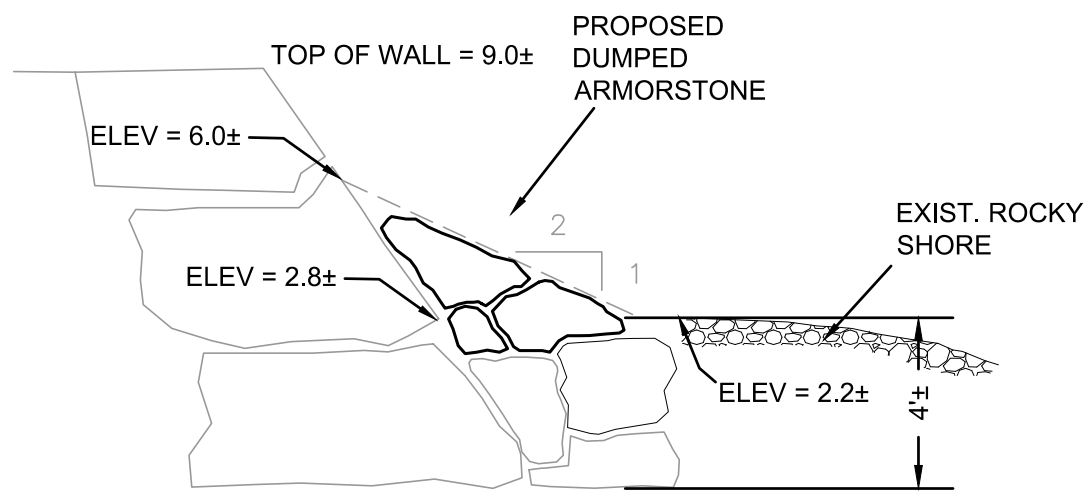
DRAWING TITLE	PROPOSED SEAWALL IMPROVEMENT SHOWING EXAMPLES OF DUMPED ARMOR STONE	
PROJECT	BELLA VISTA ISLAND, FAIRHAVEN, MA	
SCALE: N.T.S.	ISSUED: JUNE 10, 2021	
<ul style="list-style-type: none"> CIVIL ENGINEERING LAND SURVEYING ENVIRONMENTAL ASSESSMENT 		P.O. BOX 1088 LAKEVILLE, MA 02347 TEL: 508.947.0050 FAX: 508.947.2004



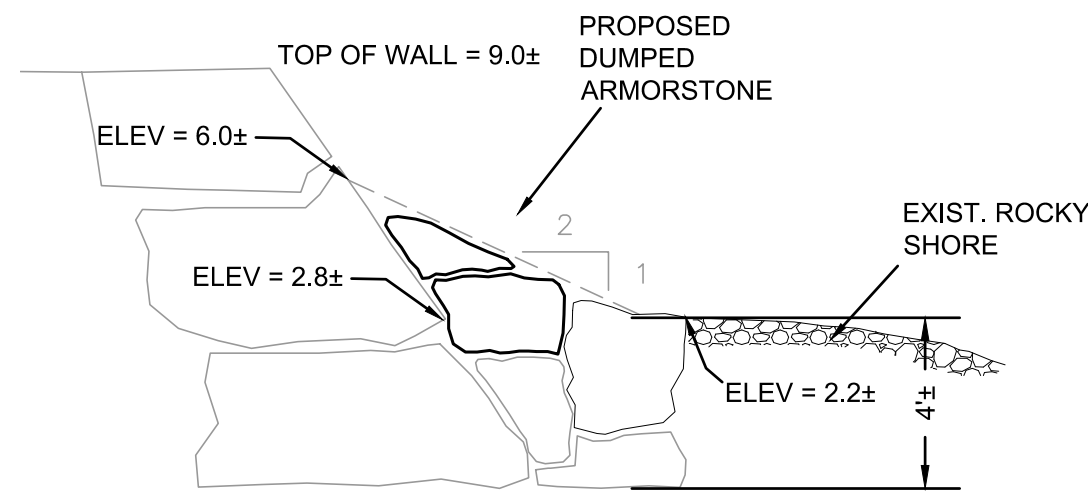
PROPOSED SEAWALL CROSS SECTION
N.T.S.



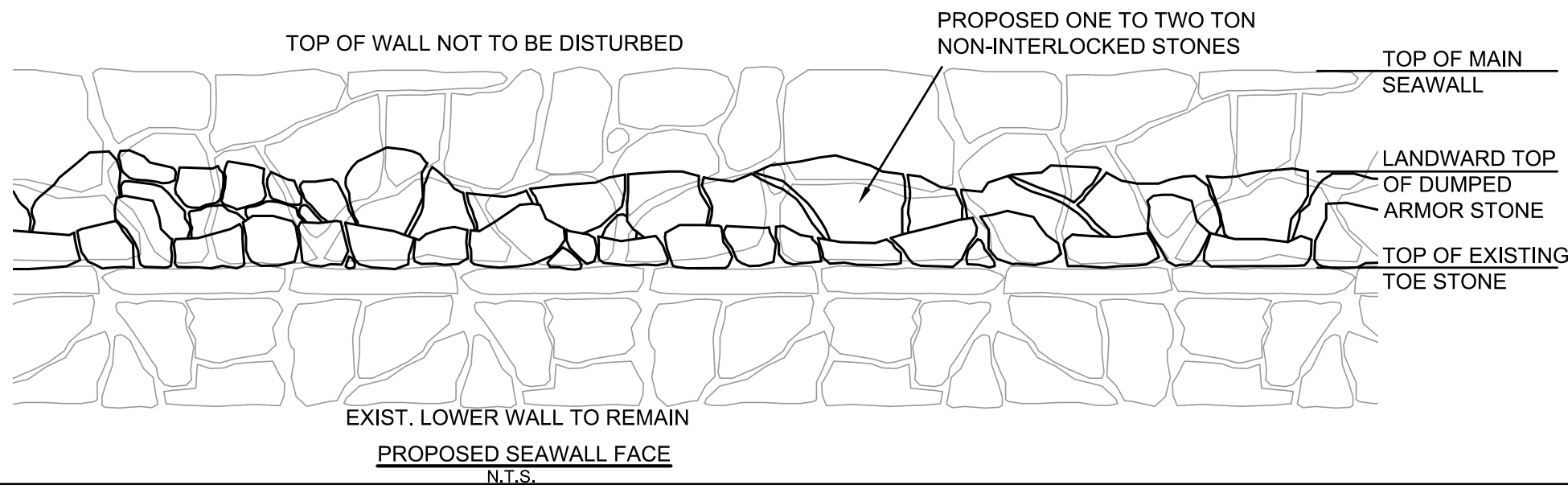
PROPOSED SEAWALL CROSS SECTION
N.T.S.



PROPOSED SEAWALL CROSS SECTION
N.T.S.




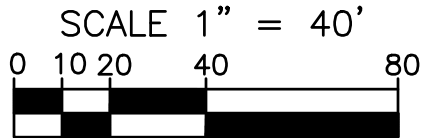
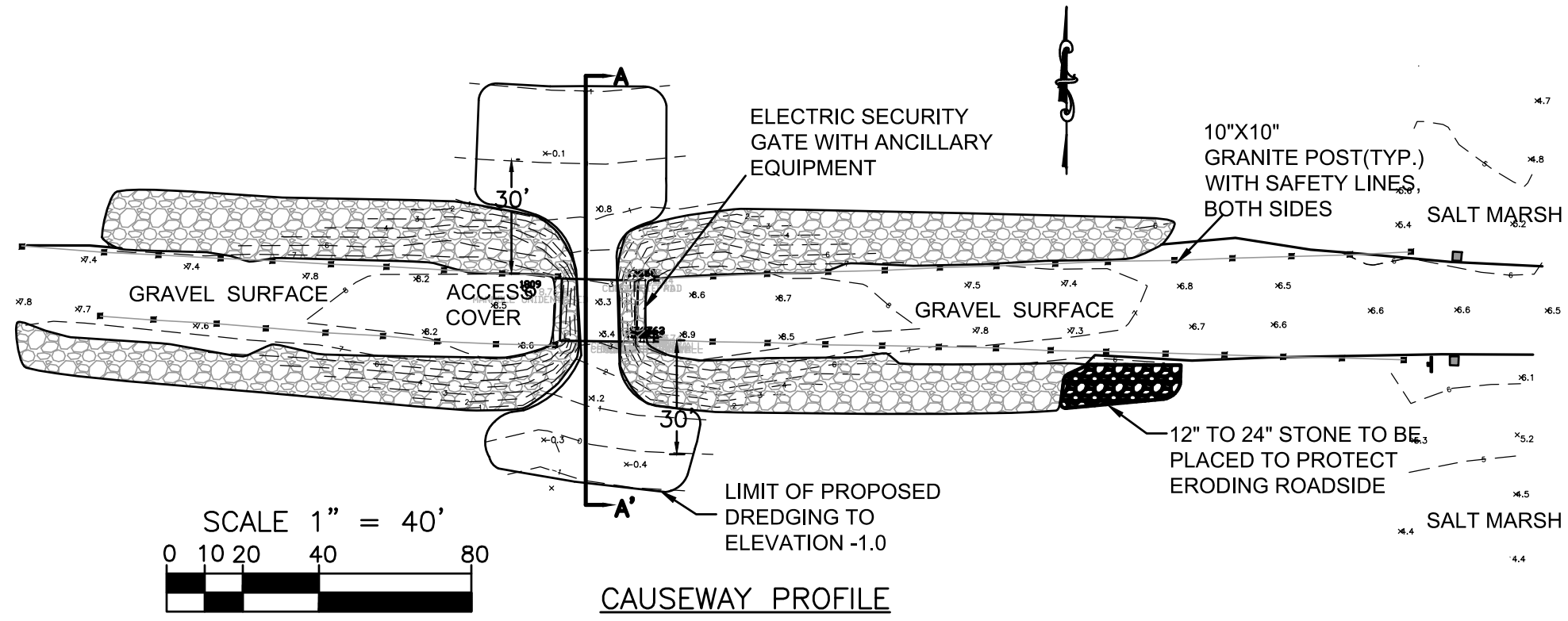
PROPOSED SEAWALL CROSS SECTION
N.T.S.



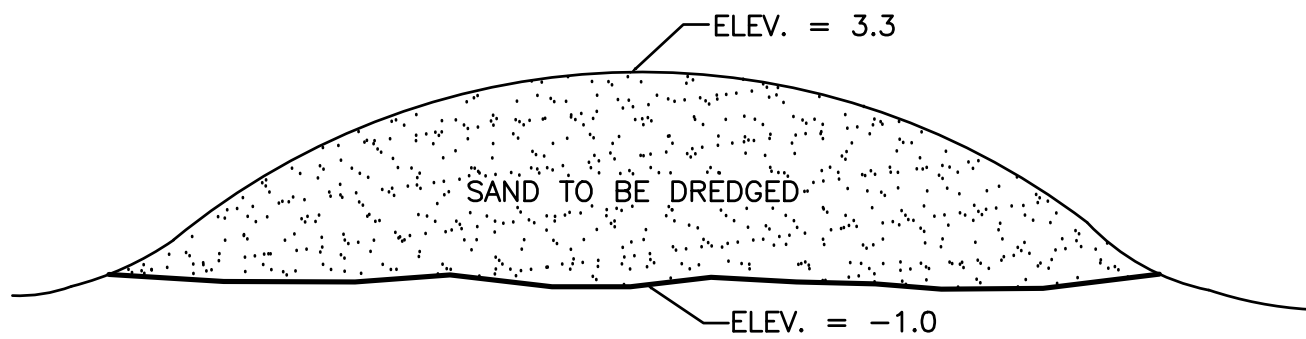
THE GOAL IS TO HAVE THE LOWER WALL AT AN AVERAGE SLOPE OF 2.0 TO 1.0 WITH NO SIGNIFICANT PORTION BEING STEEPER THAN 1.0 TO 1.0 AND NO SIGNIFICANT PORTION BEING FLATTER THAN 3.0 TO 1.0.

EXHIBIT A (SHEET 4 OF 4)

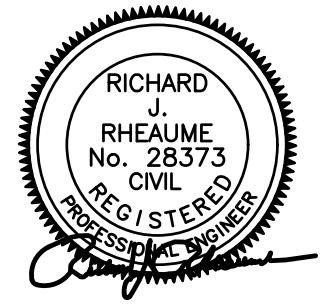
DRAWING TITLE	PROPOSED SEAWALL IMPROVEMENT SHOWING EXAMPLES OF DUMPED ARMOR STONE	
PROJECT	BELLA VISTA ISLAND, FAIRHAVEN, MA	
SCALE: N.T.S.	ISSUED: JUNE 10, 2021	
<ul style="list-style-type: none"> CIVIL ENGINEERING LAND SURVEYING ENVIRONMENTAL ASSESSMENT 		P.O. BOX 1088 LAKEVILLE, MA 02347 TEL: 508.947.0050 FAX: 508.947.2004



CAUSEWAY PROFILE




CROSS SECTION A-A'
NOT TO SCALE

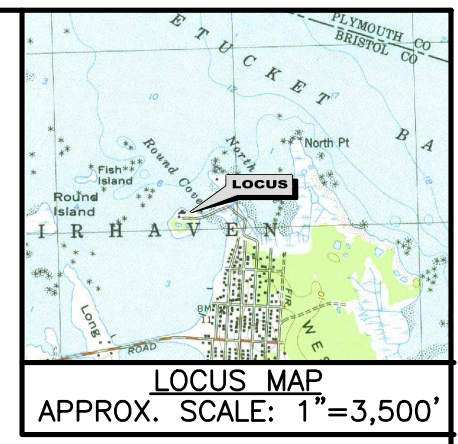
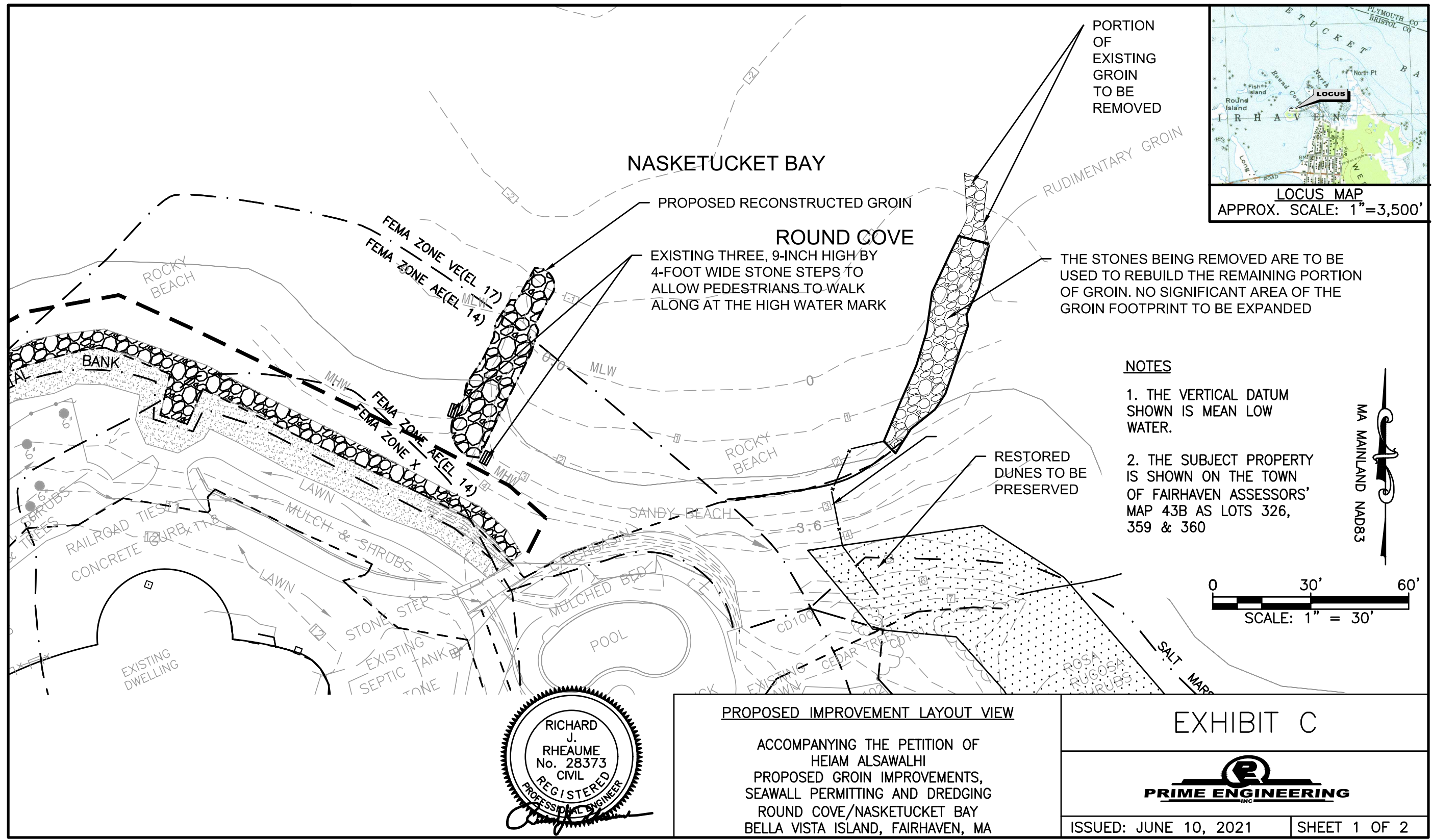


CAUSEWAY DETAIL AND DREDGING PLAN
 ACCOMPANYING THE PETITION OF
 HEIAM ALSAWALHI
 PROPOSED GROIN IMPROVEMENTS,
 SEAWALL PERMITTING AND DREDGING
 ROUND COVE/NASKETUCKET BAY
 BELLA VISTA ISLAND, FAIRHAVEN, MA

EXHIBIT B

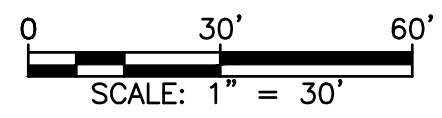


ISSUED: JUNE 10, 2021 | SHEET 1 OF 1



NOTES

1. THE VERTICAL DATUM SHOWN IS MEAN LOW WATER.
2. THE SUBJECT PROPERTY IS SHOWN ON THE TOWN OF FAIRHAVEN ASSESSORS' MAP 43B AS LOTS 326, 359 & 360



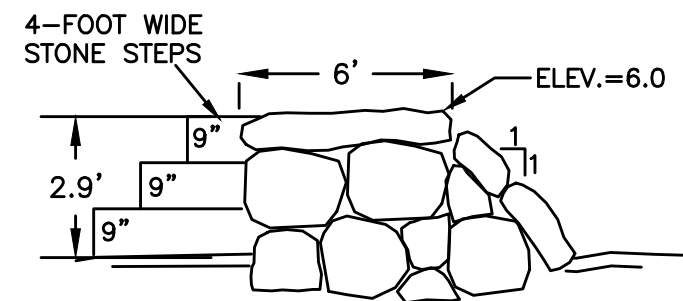
PROPOSED IMPROVEMENT LAYOUT VIEW

ACCOMPANYING THE PETITION OF HEIAM ALSAWALHI
PROPOSED GROIN IMPROVEMENTS,
SEAWALL PERMITTING AND DREDGING
ROUND COVE/NASKETUCKET BAY
BELLA VISTA ISLAND, FAIRHAVEN, MA

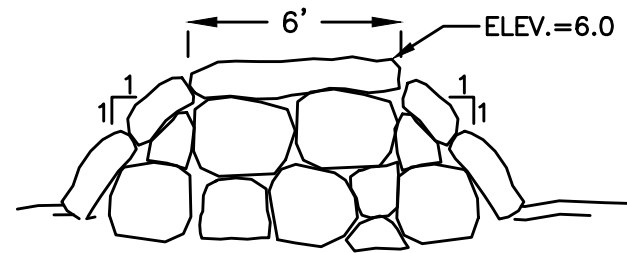
EXHIBIT C



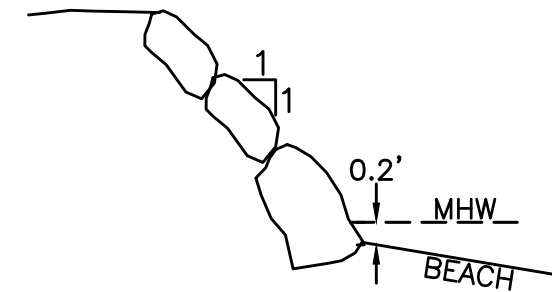
3.6	MEAN HIGH WATER	/
2.6	MEAN SEA LEVEL	1.0'
0	MEAN LOW WATER	2.6'
<u>TIDE ELEVATIONS</u>		



CROSS SECTION OF
PROPOSED RECONSTRUCTED GROIN
AT STONE STAIRS (TYP.)
NOT TO SCALE



CROSS SECTION OF PROPOSED
RECONSTRUCTED GROIN (TYP.)
NOT TO SCALE



SECTION A-A
EXISTING POOL SEAWALL
NOT TO SCALE



PROFILE PLAN OF GROIN IMPROVEMENT

ACCOMPANYING THE PETITION OF
HEIAM ALSAWALHI
PROPOSED GROIN IMPROVEMENTS,
SEAWALL PERMITTING AND DREDGING
ROUND COVE/NASKETUCKET BAY
BELLA VISTA ISLAND, FAIRHAVEN, MA

EXHIBIT C



ISSUED: JUNE 10, 2021

SHEET 2 OF 2