

PLAN INDEX

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WAIVERS

SECTION XV-E b. 3.

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REGULATION
ENVIRONMENTAL AND
COMMUNITY IMPACT
ANALYSIS

AL AND NO ANALYSIS PROVIDED.

MPACT

WAIVER REQUESTED

TRAFFIC IMPACT STUDY NO STUDY PROVIDED.

SITE PLAN

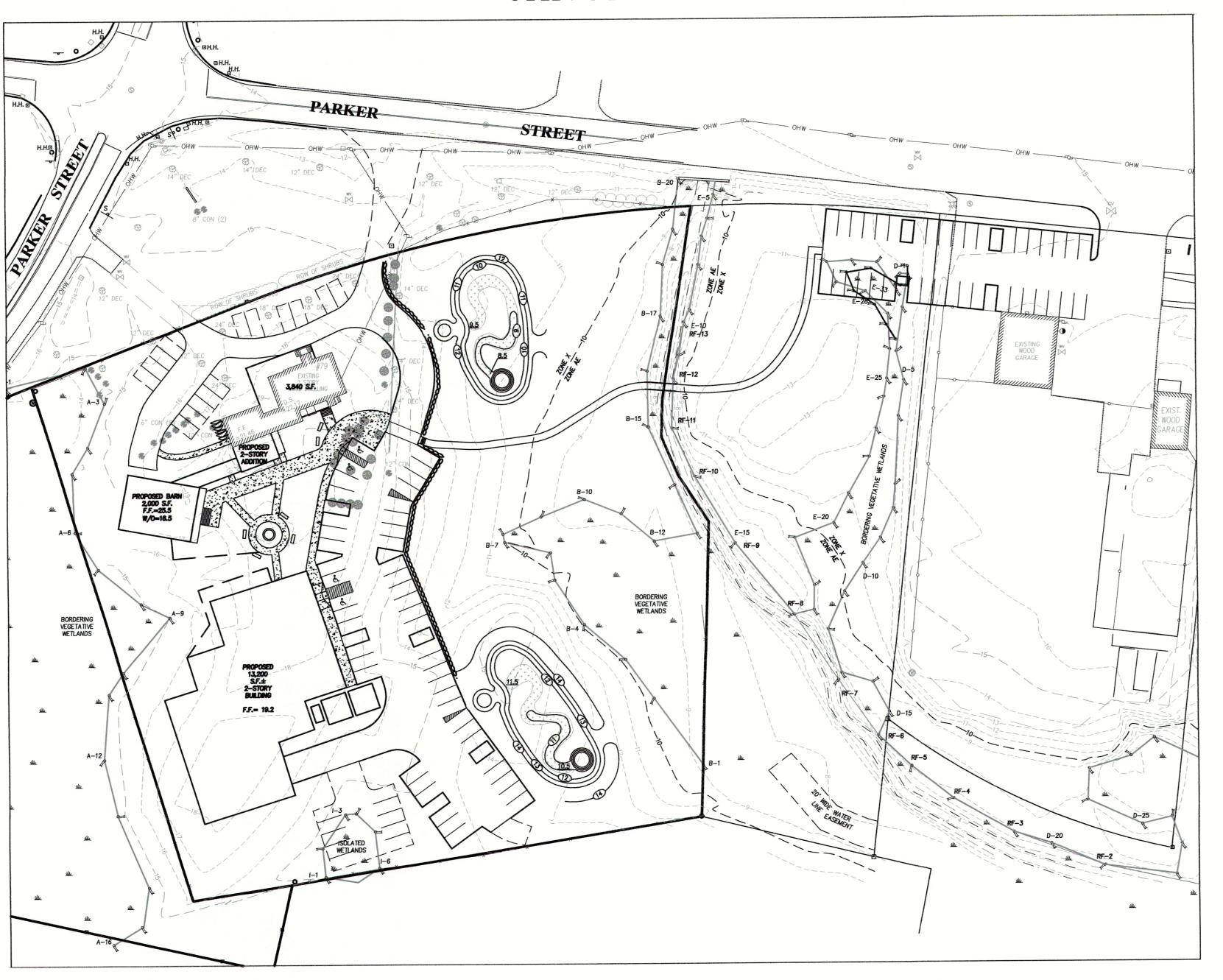
FOR

79 PARKER STREET

IN

JANUARY 2019

NEWBURYPORT, MA



ZONING TABLE

79 PARKER STREET — ASSESSORS MAP 78 LOT 3 ZONING DISTRICT 11B — USE 602 (LIGHT MANUFACTURING)			
	REQUIRED	EXISTING	PROPOSED
LOT AREA:	50,000 S.F.	173,585± S.F.	173,585± S.F.
LOT FRONTAGE:	200 FT	504.71 FT	504.71 FT
FRONT SETBACK:	50 FT	48.6 FT	186.9 FT
SIDE SETBACK:	50 FT	30.5 FT	23.6 FT
REAR SETBACK:	50 FT	261.0 FT	52.4 FT
LOT COVERAGE:	40%	2.3%	7.7%
OPEN SPACE:	N.A.	N.A.	N.A.

79 PARKER STREET - ASSESSORS MAP 78 LOT 3 ZONING DISTRICT 11B - USE 416 (PROFESSIONAL/OFFICE)			
	REQUIRED	EXISTING	PROPOSED
LOT AREA:	20,000 S.F.	173,585± S.F.	173,585± S.F.
LOT FRONTAGE:	90 FT	504.71 FT	504.71 FT
FRONT SETBACK:	20 FT	48.6 FT	43.1 FT
SIDE SETBACK:	20 FT	30.5 FT	121.7 FT
REAR SETBACK:	20 FT	261.0 FT	294.2 FT
LOT COVERAGE:	50%	2.3%	2.2%
OPEN SPACE:	N.A.	N.A.	N.A.

79 PARKER STREET — ASSESSORS MAP 78 LOT 3 ZONING DISTRICT 11B — USE 421 (MEETING SPACE/FUNCTION HALL)			
	REQUIRED	EXISTING	PROPOSED
LOT AREA:	20,000 S.F.	173,585± S.F.	173,585± S.F.
LOT FRONTAGE:	90 FT	504.71 FT	504.71 FT
FRONT SETBACK:	20 FT	48.6 FT	86.8 FT
SIDE SETBACK:	20 FT	30.5 FT	29.7 FT
REAR SETBACK:	20 FT	261.0 FT	256.1 FT
LOT COVERAGE:	30%	2.3%	1.1%
OPEN SPACE:	N.A.	N.A.	N.A.

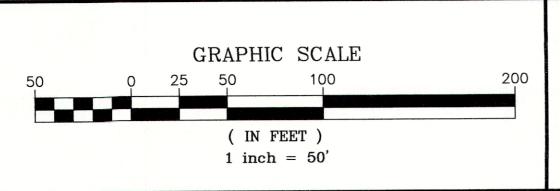
* SEE DIMENSIONAL TABLE, B1 DISTRICT

79 PARKER STREET — ASSESSORS MAP 78 LOT 3 ZONING DISTRICT 11B — USE 501 (RESTAURANT)			
	REQUIRED	EXISTING	PROPOSED
LOT AREA:	20,000 S.F.	173,585± S.F.	173,585± S.F.
LOT FRONTAGE:	120 FT	504.71 FT	504.71 FT
FRONT SETBACK:	25 FT	48.6 FT	186.9 FT
SIDE SETBACK:	25 FT	30.5 FT	23.6 FT
REAR SETBACK:	25 FT	261.0 FT	52.4 FT
LOT COVERAGE:	30%	2.3%	7.7%
OPEN SPACE:	N.A.	N.A.	N.A.

* SEE DIMENSIONAL TABLE, B1 DISTRICT

79 PARKER STREET — ASSESSORS MAP 78 LOT 3 ZONING DISTRICT I1B — USE 407 (ENTERTAINMENT/CLUBS)			
	REQUIRED	EXISTING	PROPOSED
LOT AREA:	20,000 S.F.	173,585± S.F.	173,585± S.F.
LOT FRONTAGE:	90 FT	504.71 FT	504.71 FT
FRONT SETBACK:	20 FT	48.6 FT	186.9 FT
SIDE SETBACK:	20 FT	30.5 FT	23.6 FT
REAR SETBACK:	20 FT	261.0 FT	52.4 FT
LOT COVERAGE:	30%	2.3%	7.7%
OPEN SPACE:	N.A.	N.A.	N.A.

* SEE DIMENSIONAL TABLE, B1 DISTRICT





PLUM ISLAND LLC
79 PARKER STREET

NEWBURYPORT, MA 01950

PREPARED FOR

				MIL ENGIN 62 ELM 13 HAI	EERI M ST
				SCALE: 1"=50'	
NO.	DATE	DESCRIPTION	BY	DATE: JAN. 8, 20	19

MILLENNIUM ENGINEERING, INC.
ENGINEERING AND LAND SURVEYING
62 ELM ST. SALISBURY, MA 01952 (978) 463-8980
13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528

PROJECT: M173238

DESG. BY: C.M.Y.

CHKD. BY: E.W.B.

PLAN OF LAND

IN

NEWBURYPORT, MA

SHOWING

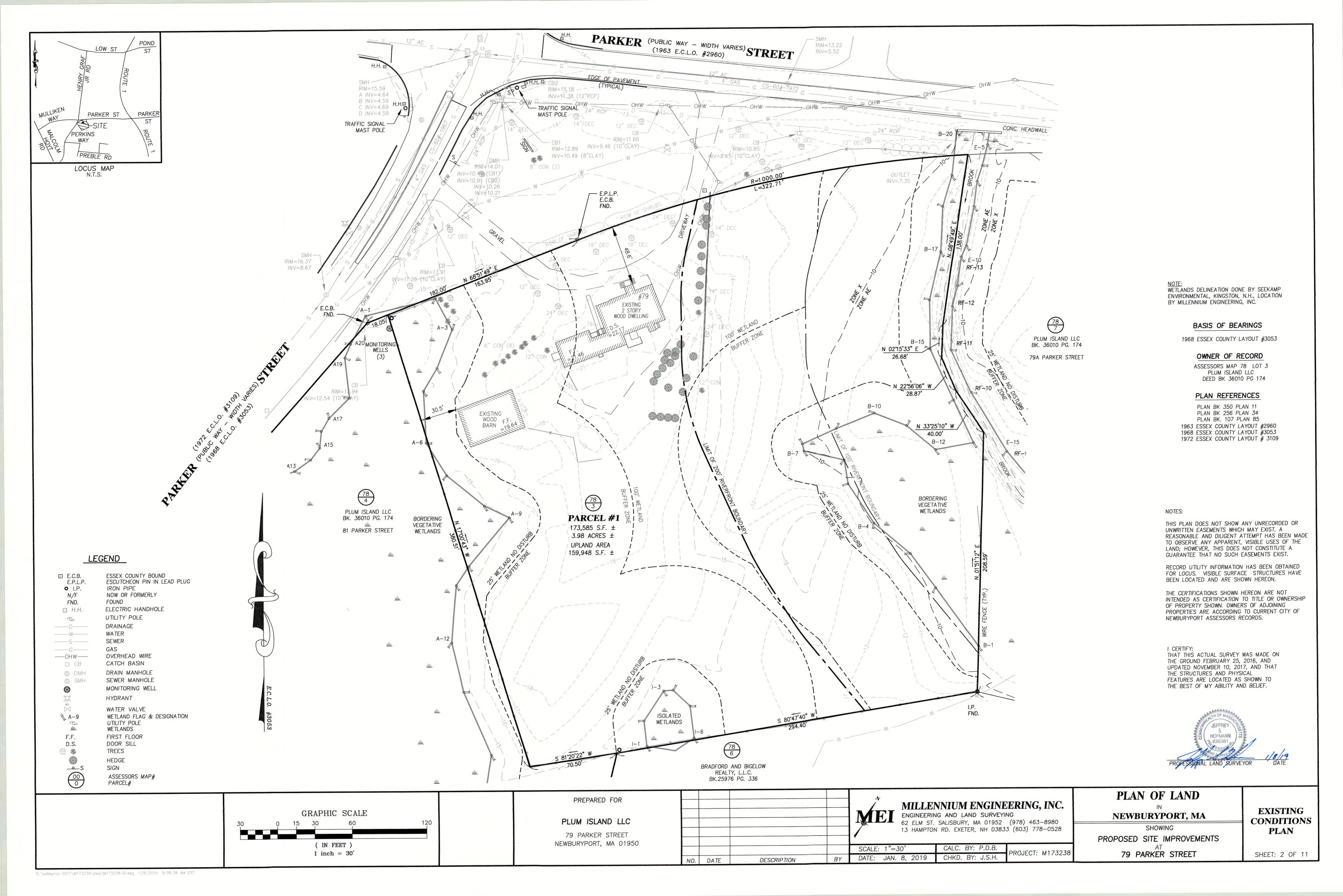
PROPOSED SITE IMPROVEMENTS

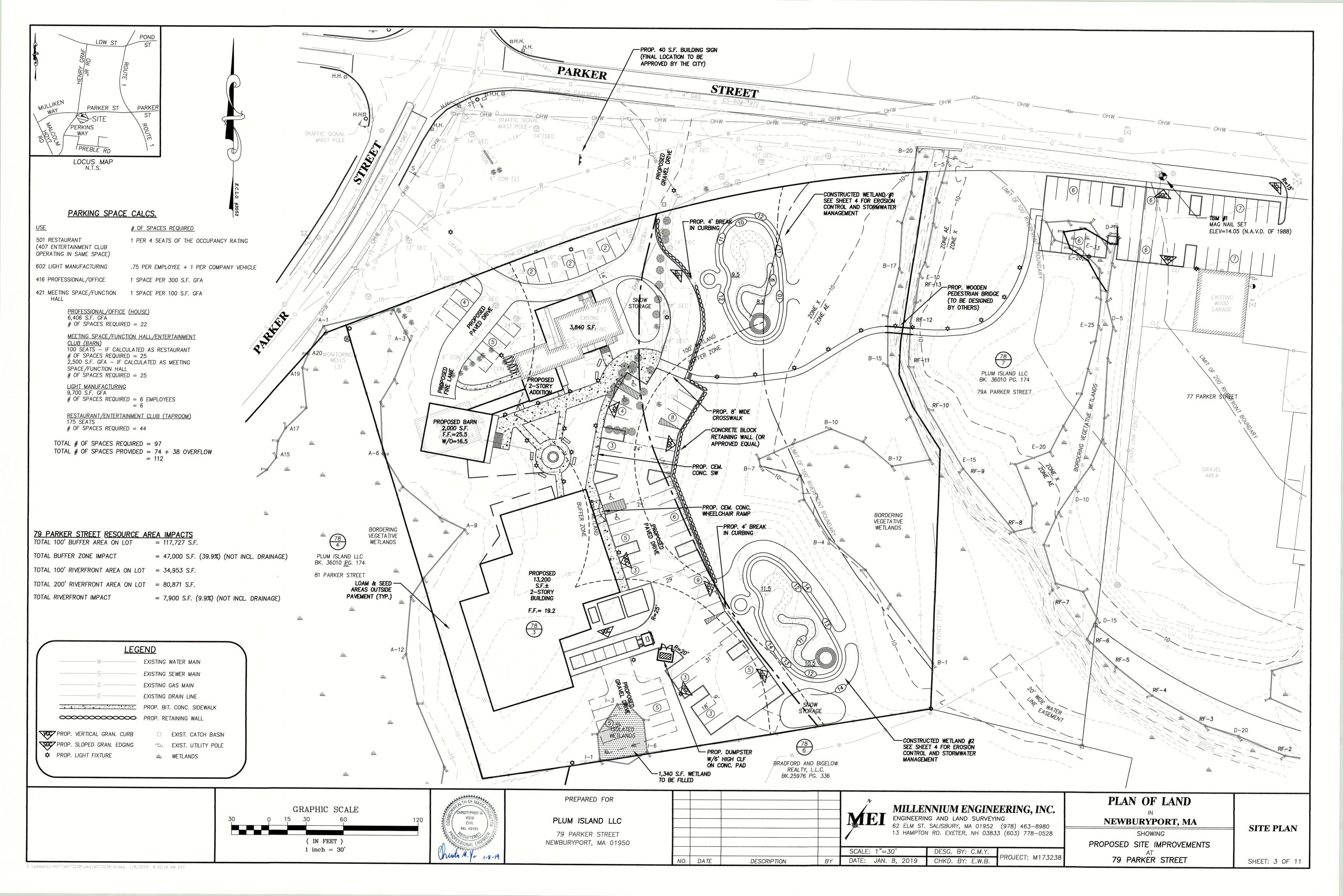
79 PARKER STREET

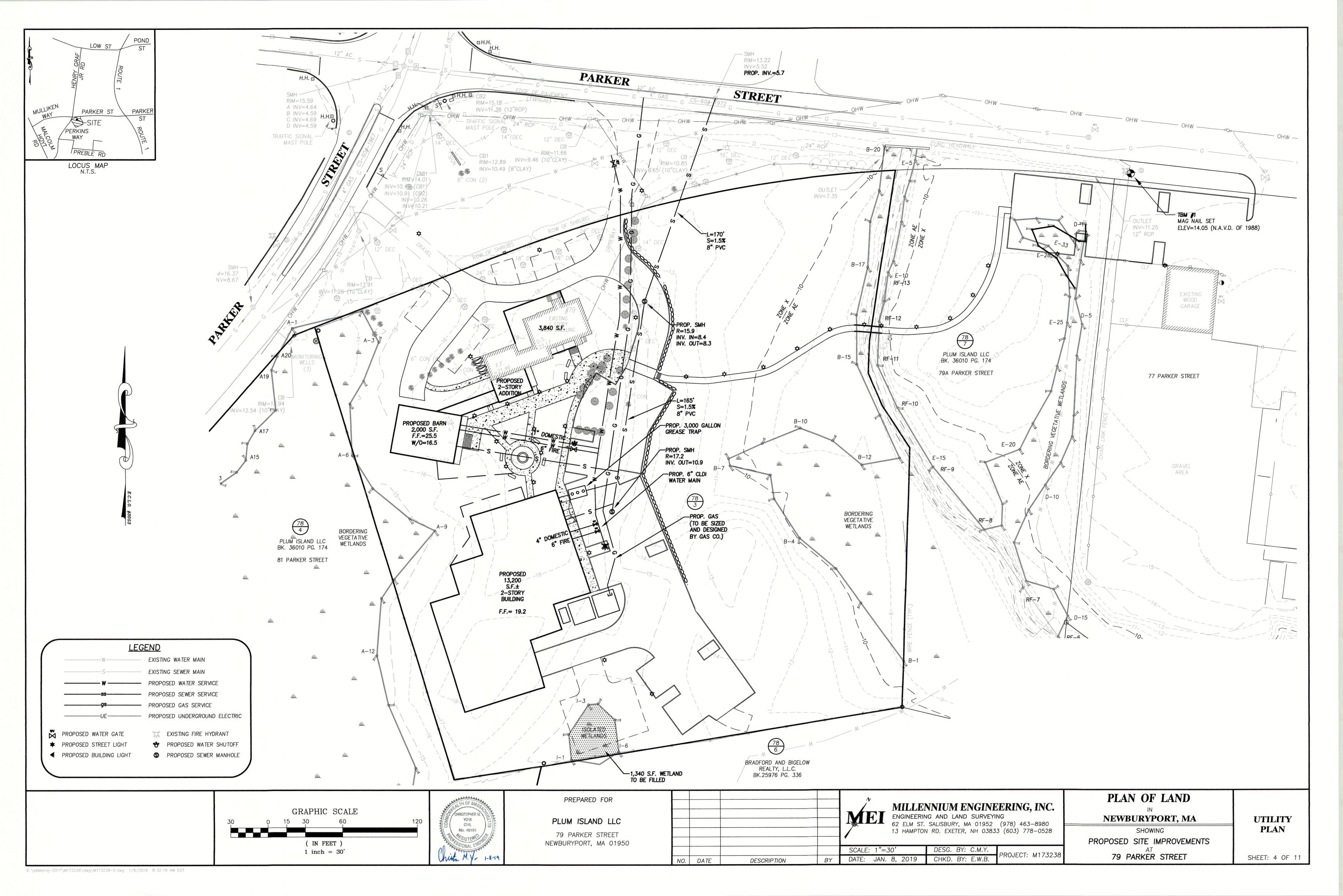
COVER SHEET

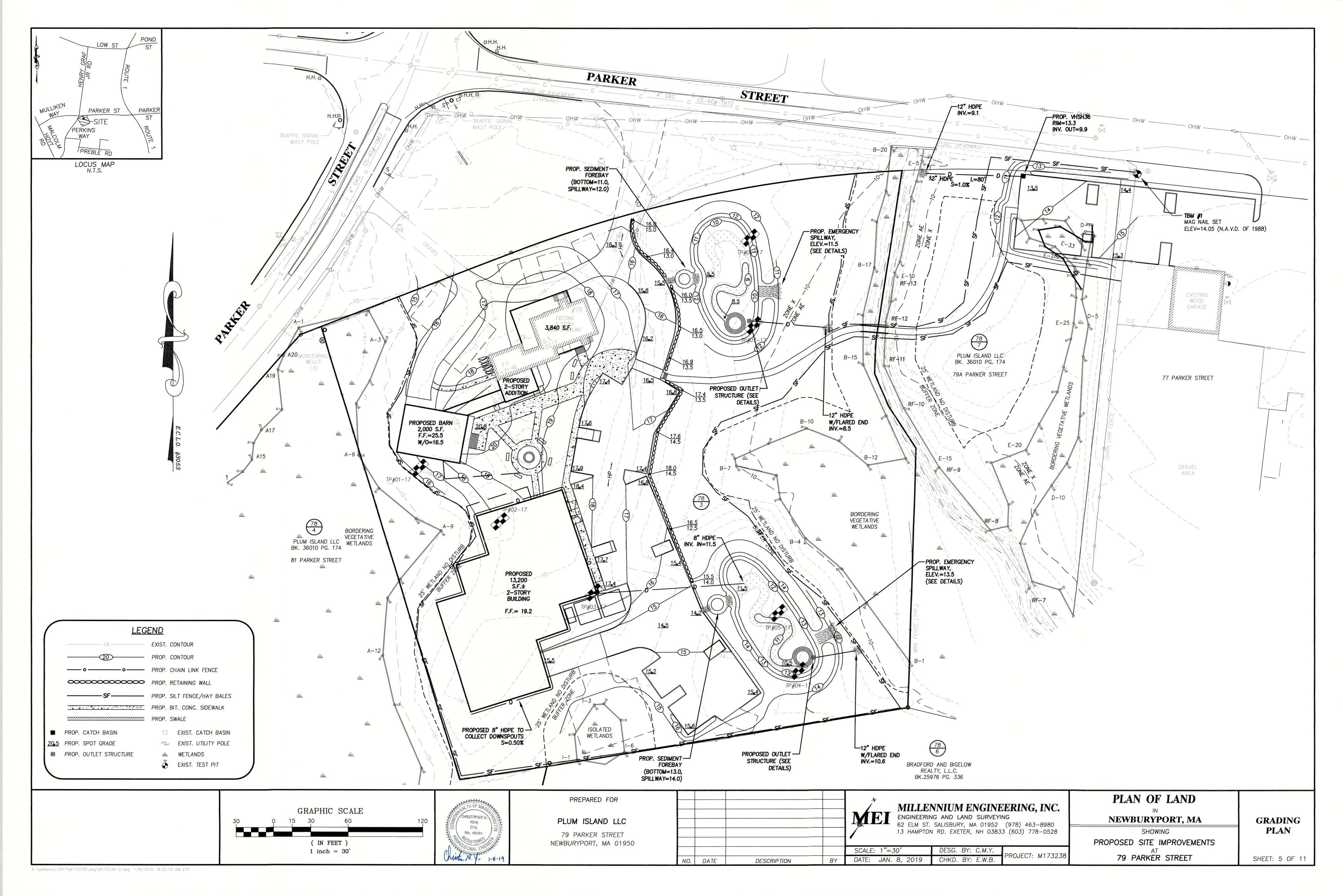
SHEET: 1 OF 11

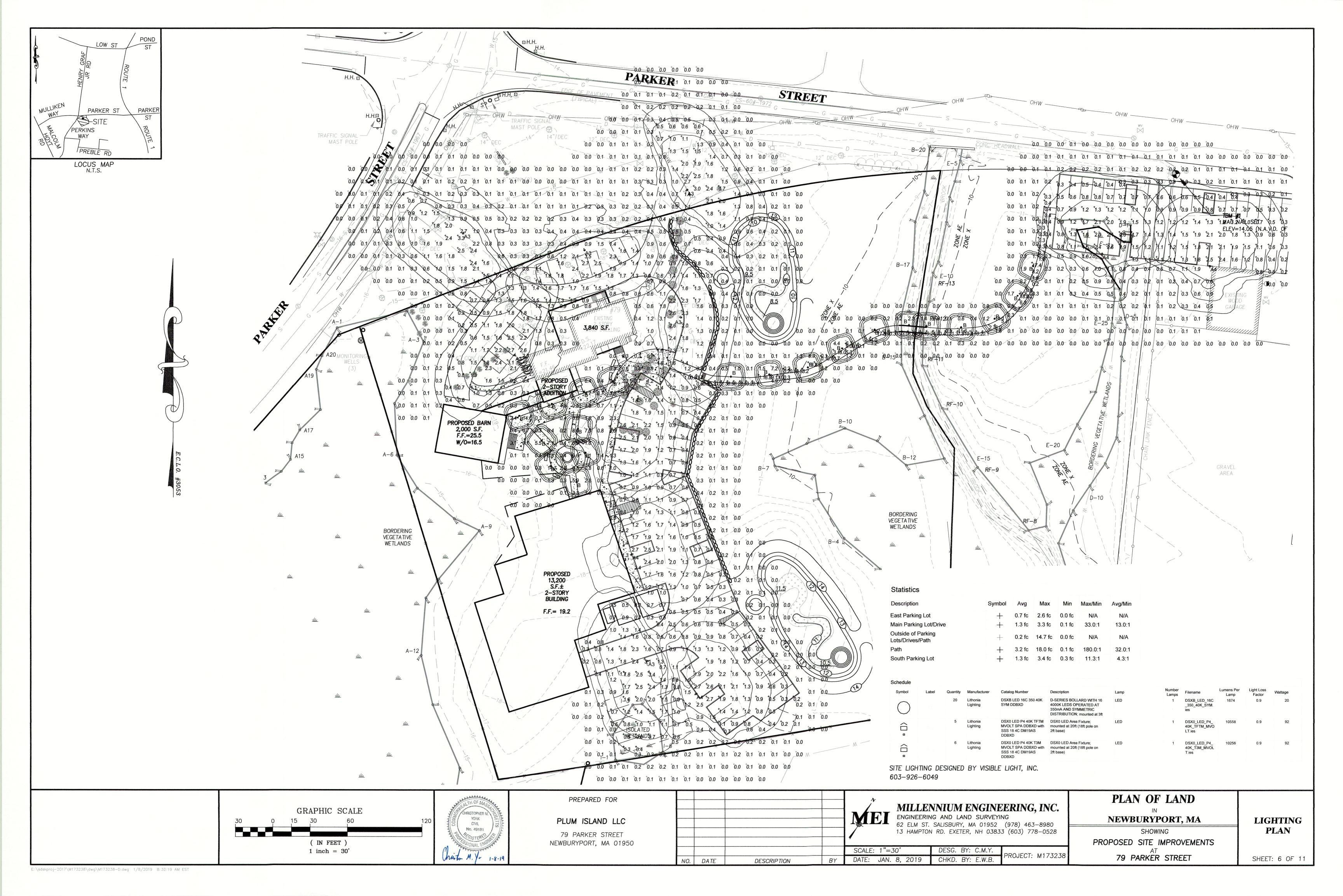
E:\sdskproj-2017\M173238\dwg\M173238-D.dwg 1/8/2019 8:32:19 AM EST

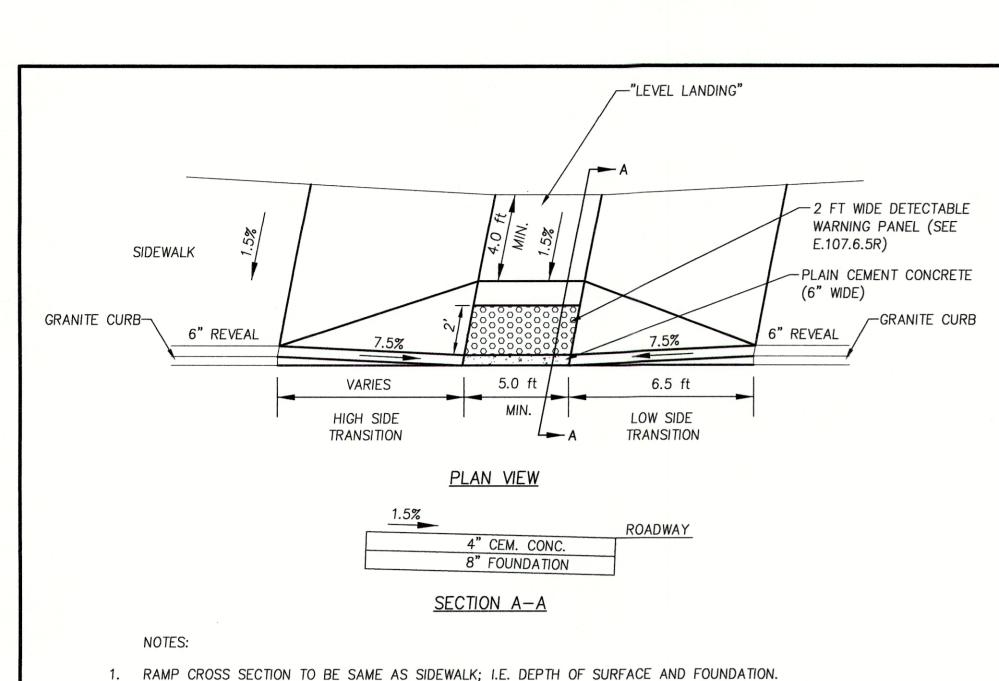












2. PORTLAND CEMENT CONCRETE RAMPS ARE TO BE TEXTURED BY BROOMING IN A DIRECTION PARALLEL TO

RAMP SHALL BE CONSTRUCTED SUCH THAT WATER DOES NOT "PUDDLE" AT THE BASE OF THE RAMP.

4. THE PAVEMENT AT THE BASE OF THE RAMP SHALL BE PART OF THE CONTINUOUS TOP COURSE. THE USE

3. BASE OF RAMP SHALL MEET PAVEMENT GUTTER SUCH THAT THERE IS NO DIFFERENCE IN ELEVATION.

OF A "PAVEMENT PATCH" TO COMPLY WITH THE CONDITIONS IN NOTE 3, ABOVE IS PROHIBITED.

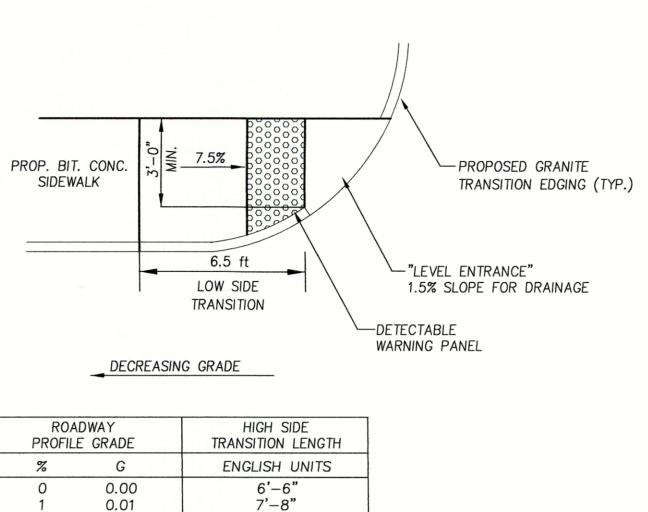
5. RAMPS SHALL CONFORM TO MASS DOT WHEELCHAIR RAMP STANDARDS - LATEST REVISION.

THE LENGTH OF THE RAMP.

A.D.A. ACCESS

RAMP DETAIL



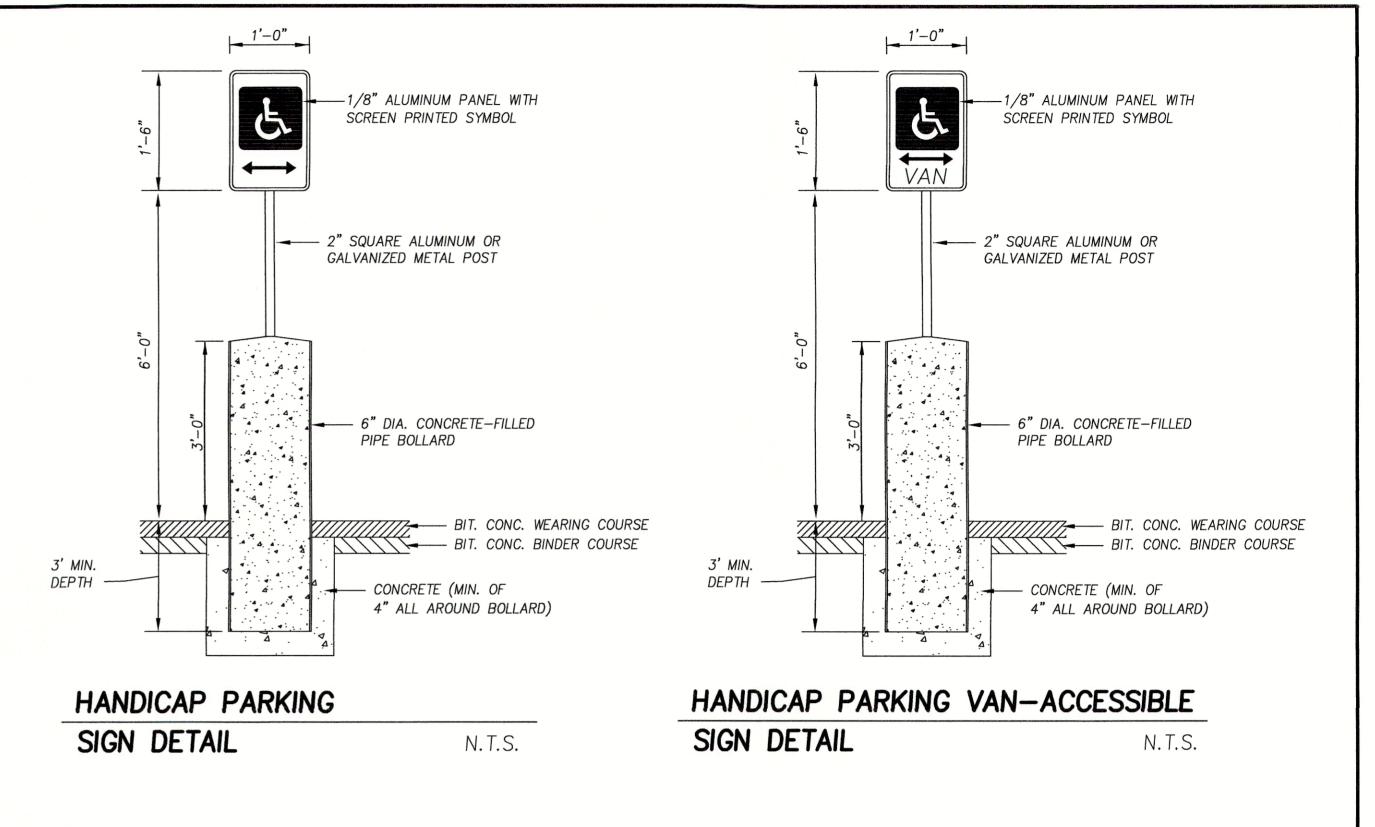


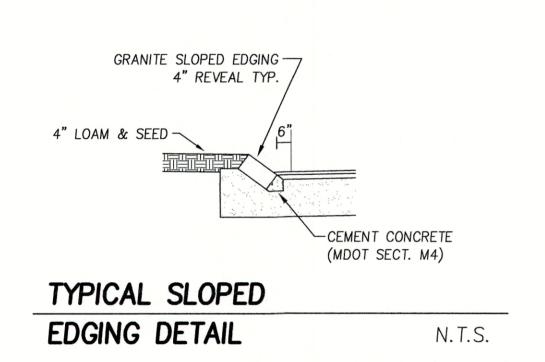
9'-0"

11'-0"

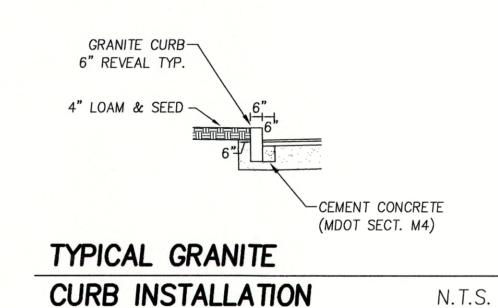
14'-0"

15'-0" MAX

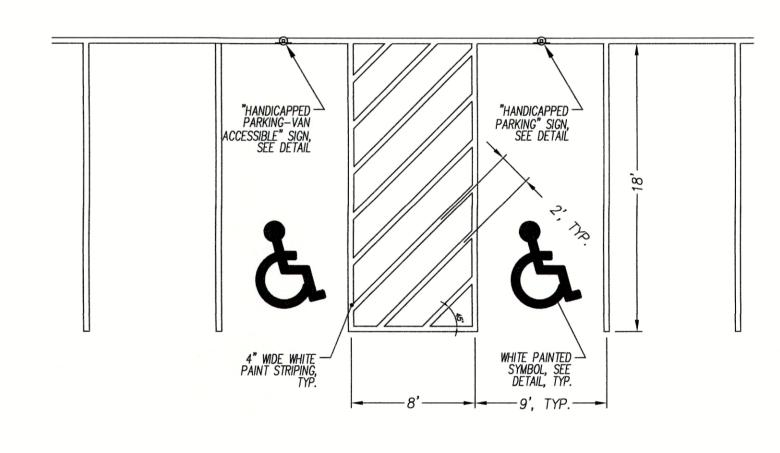




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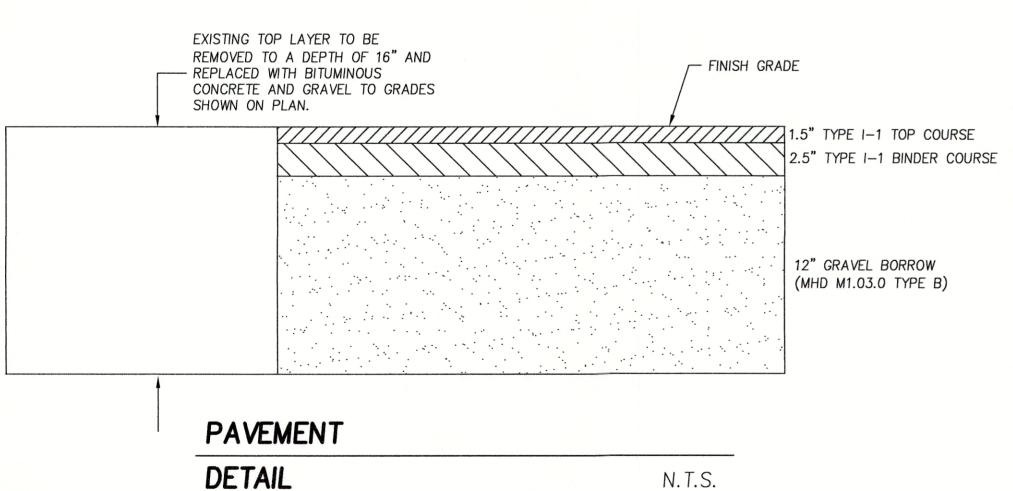






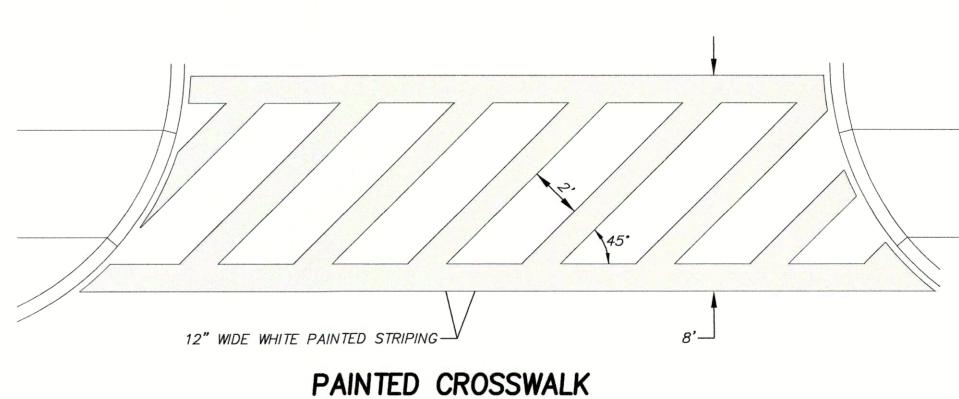
HANDICAP PARKING

DETAIL





- 1.) ALL STUMPS, ROCKS AND LEDGE WITHIN THE LIMITS OF THE PROPOSED PAVED WAY SHALL BE REMOVED. ALL LEDGE SHALL BE REMOVED TO A MINIMUM DEPTH OF 2' BELOW FINISHED PAVEMENT GRADE.
- 2.) ROADWAY SHALL NOT BE CONSTRUCTED DURING FREEZING WEATHER OR ON WET OR FROZEN SUBGRADE.
- 3.) GRADING AND ROLLING SHALL BE REQUIRED TO PROVIDE A SMOOTH, EVEN, AND UNIFORM COMPACTED BASE WHICH IS COMPACTED TO A MINIMUM DRY DENSITY OF 95 PERCENT.
- 4.) ALL UNSUITABLE MATERIAL SHALL BE EXCAVATED AND REPLACED WITH SATISFACTORY MATERIAL AND BROUGHT UP TO GRADE WITH GRAVEL BORROW CONTAINING NO STONES GREATER THAN 6" DIAMETER.
- 5.) AT ALL TIMES DURING CONSTRUCTION, THE SUB-GRADE AND ALL DITCHES SHALL BE CONSTRUCTED AND MAINTAINED SO THAT THE ROADWAY WILL EFFECTIVELY BE DRAINED.
- 6.) THE CONTRACTOR SHALL REFER TO THE NEWBURYPORT RULES AND REGULATIONS GOVERNING THE SUBDIVISION OF LAND SECTION 6 AND APPENDIX I.



DETAIL N.T.S.

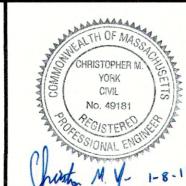
MATERIAL NOTES

ALL MATERIALS OF THE ELEMENTS IN THE SITE PLAN MUST CONFORM TO THE FOLLOWING STANDARDS:

1.) SPECIFICATIONS BY THE CITY OF NEWBURYPORT AS SET FORTH BY SECTION 6 AND APPENDICES I-IX IN THE RULES AND REGULATIONS GOVERNING THE SUBDIVISION OF LAND 2.) NEWBURYPORT DPS SEWER SPECIFICATIONS

N.T.S.

- 3.) COMMONWEALTH OF MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES
- 4.) AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)
- 5.) AMERICAN WATER WORKS ASSOCIATION (AWWA)
- 6.) 521 CMR RULES AND REGULATIONS OF THE ARCHITECTURAL ACCESS BOARD (AAB) AND THE AMERICANS WITH DISABILITIES ACT (ADA)



PLUM ISLAND LLC

PREPARED FOR

79 PARKER STREET NEWBURYPORT, MA 01950 NO. DATE DESCRIPTION

MILLENNIUM ENGINEERING, INC. ENGINEERING AND LAND SURVEYING 62 ELM ST. SALISBURY, MA 01952 (978) 463-8980 13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528 SCALE: AS NOTED DESG. BY: C.M.Y. PROJECT: M173238 DATE: JAN. 8, 2019 CHKD. BY: E.W.B.

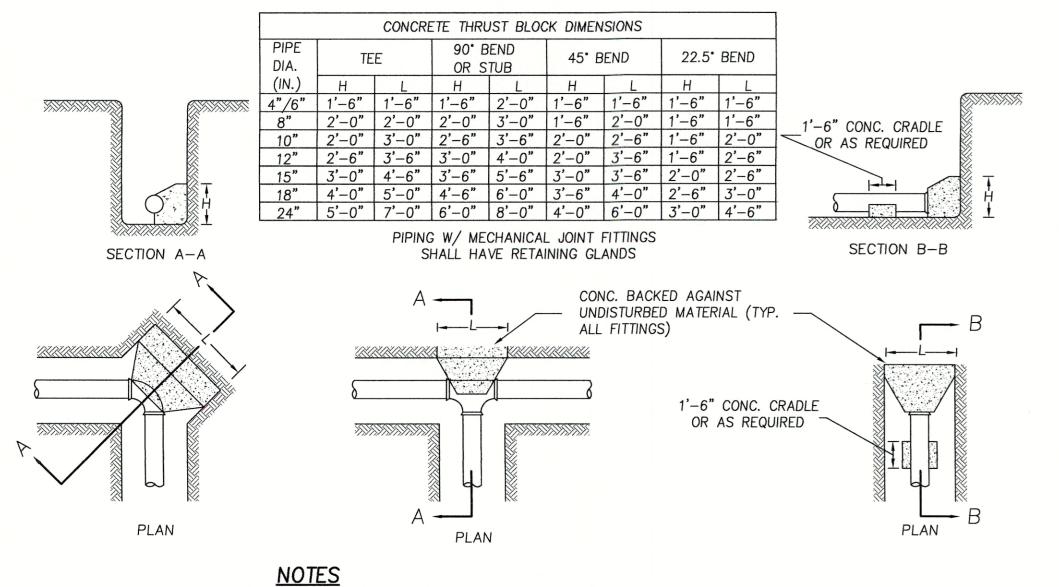
PLAN OF LAND NEWBURYPORT, MA SHOWING

PROPOSED SITE IMPROVEMENTS

SITE **DETAILS**

E:\sdskproj-2017\M173238\dwg\M173238-D.dwg 1/8/2019 8:32:19 AM EST

79 PARKER STREET SHEET: 7 OF 11

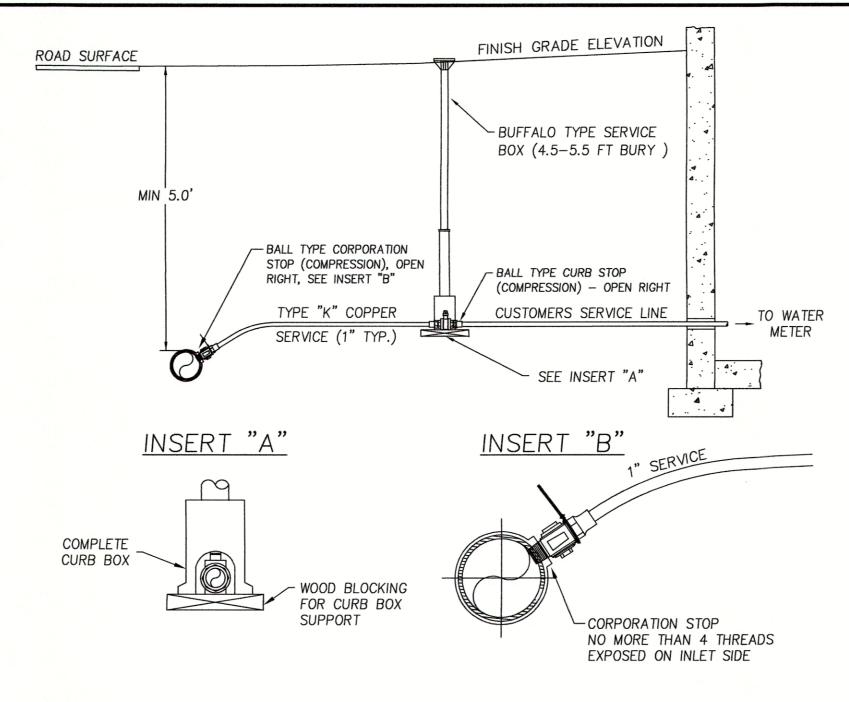


- VALUES SHOWN ARE FOR TEST PRESSURE OF 150 PSI WITH A 100 PSI SURGE ALLOWANCE. 2. THRUST BLOCKS SHALL NOT BE PLACED AGAINST THE FOLLOWING SOILS: PEAT, ORGANIC SILT AND ORGANIC SOILS, SOFT CLAY, RUBBISH FILL AND OTHER UNSUITABLE ARTIFICIAL FILL, SHATTERED SHALE, INORGANIC SILT AND VERY FINE SANDS.
- 3. POURED CONCRETE THRUST BLOCKS SHALL NOT COVER ANY JOINTS, CLAMPS, NUTS, BOLTS, ETC.

THRUST BLOCK

DETAILS

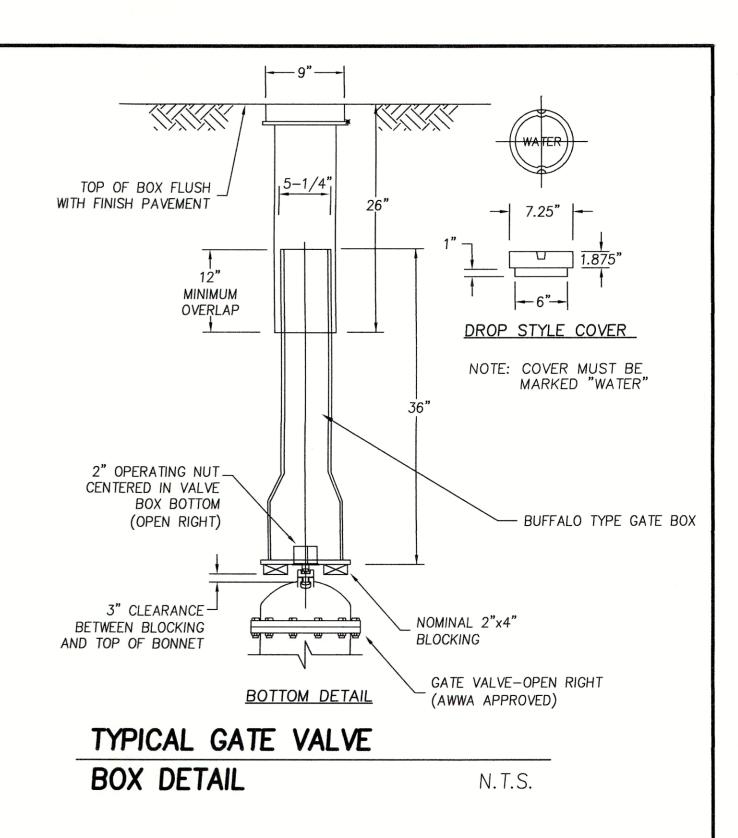
N.T.S.

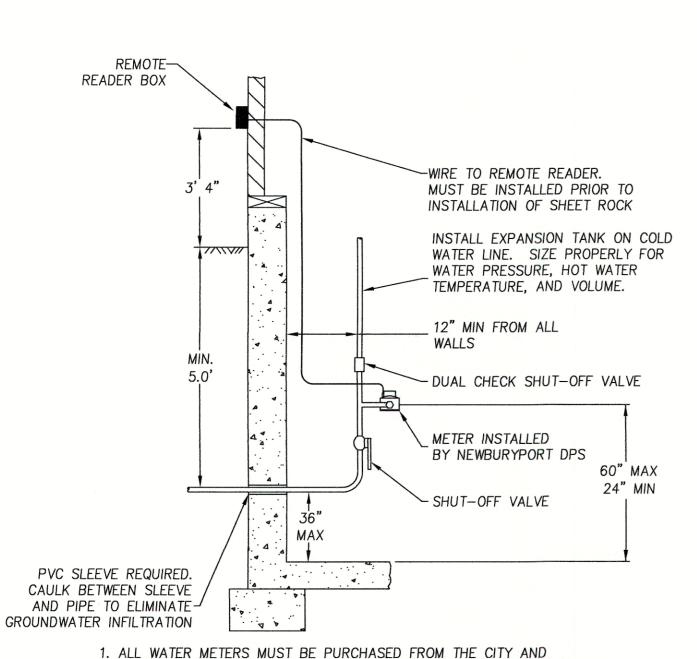


1. CORPORATION AND CURB STOPS SHALL BE BRASS & MEET ALL APPLICABLE DEP STANDARDS.

TYPICAL COPPER SERVICE CONNECTION

N.T.S.



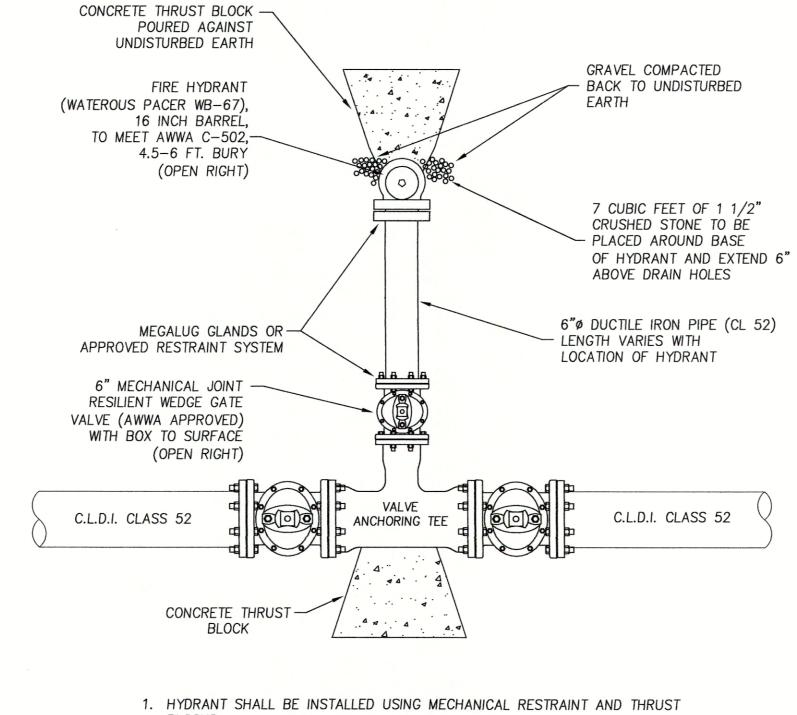


INSTALLED BY AN EMPLOYEE OF THE NEWBURYPORT DPS-WATER DIVISION.

WATER METER

DETAIL

N.T.S.



- BLOCKS.
- 2. HYDRANTS THAT ARE NON-DRAINING SHALL BE PAINTED SAFETY RED WITH ONLY THE STEAMER NOZZLE CAP PAINTED SAFETY YELLOW. OBSERVATIONS DURING CONSTRUCTION SHALL BE MADE TO DETERMINE IF THE WATER TABLE IS ABOVE OR BELOW THE ESHWT.

TYPICAL FIRE

HYDRANT INSTALLATION N.T.S.

COMPACTED IN 6" LIFTS EXCAVATION IN LEDGE EXCAVATION IN EARTH TYPICAL TRENCH

DETAIL

CROSS COUNTRY AREAS —

SUITABLE BACKFILL TO BE ---

REQUIREMENTS.

OF THE PIPE.

PLACED AND COMPACTED IN 1

SHEETING, IF REQUIRED, SHALL BE CUT OFF -

AT LEAST FIVE (5) FEET BELOW STREET

GRADE AND ONE FOOT ABOVE THE CROWN

FOOT LIFTS TO MASS DOT

LOAM & SEED, AS SPECIFIED -

N.T.S.

MIN WIDTH =
(PIPE DIA + 3')

PAVED AREAS

--- PAVEMENT AND BASE, AS SPECIFIED

- SUITABLE BACKFILL TO BE PLACED

AND COMPACTED IN 12 INCH LIFTS

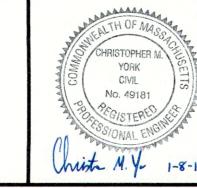
SELECT MATERIAL OR GRAVEL

- EXISTING GROUND

1.0' MIN. BORROW PLACED AND

WATER NOTES:

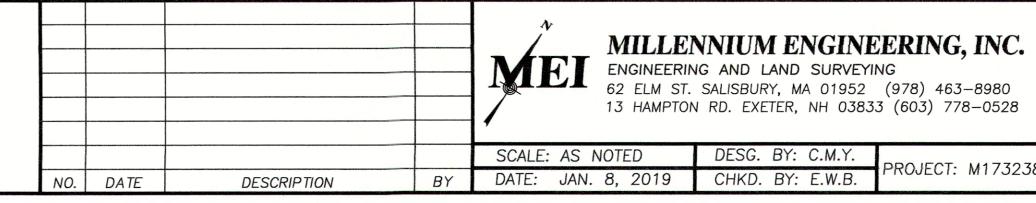
- 1.) ALL WATER MAIN AND SERVICE COMPONENTS SHALL MEET AWWA STANDARDS.
- 2.) ALL MECHANICAL JOINT COMPONENTS SHALL BE INSTALLED USING APPROVED RETAINING GLANDS (GRIP RING, MEGA LUG, STAR GRIP).
- 3.) METAL WEDGES SHALL BE USED AT ALL BELL JOINTS TO ENSURE CONTINUITY FOR TRACING.
- 4.) GATE VALVES SHALL BE DUCTILE IRON EPOXY COATED (AWWA C550), WITH O-RING SEALS, URETHANE COATED WEDGE, STAINLESS STEEL NUTS AND BOLTS, AND ANTIROTATION SEATS TO PREVENT T-BOLTS FROM TURNING. VALVES SHALL OPEN RIGHT USING 2-INCH OPERATING NUT WITH ARROW CAST IN THE METAL.
- 5.) WATER MAINS SHALL BE PRESSURE TESTED TO 150 PSI AND WITNESSED BY THE NEWBURYPORT WATER WORKS CONSTRUCTION FOREMAN OR HIS DESIGNEE. ALL INSTALLATIONS MUST BE INSPECTED BY THE CONSTRUCTION FOREMAN OR HIS DESIGNEE.
- 6.) CHLORINATION SHALL MEET AWWA STANDARDS (ANSI/AWWA C651-05). BACTERIA SAMPLES SHALL BE TESTED BY AN APPROVED LAB WITH RESULTS SENT DIRECTLY TO NEWBURYPORT WATER WORKS THROUGH CERTIFIED MAIL, AND RECEIVED WITHIN 5 WORKING DAYS OR RESAMPLING MUST BE DONE. IF BACTERIA TEST IS POSITIVE THE WATER MAIN SHALL BE FLUSHED AND RECHLORINATED PRIOR TO RESAMPLING.
- 7.) NEWBURYPORT WATER WORKS PERSONNEL SHALL OPERATE ALL GATE VALVES AND HYDRANTS AND SHALL WITNESS AND INSPECT THE WATER MAIN AND APPURTENANCES PRIOR TO BURIAL. THEY SHALL ALSO PERFORM ALL TAPS UNLESS OTHERWISE APPROVED BY THE CONSTRUCTION FOREMAN. IF CONSENT IS GIVEN, AN APPROVED CONTRACTOR MUST DO THE TAPPING, AND THE CITY'S CONSTRUCTION FOREMAN OR HIS DESIGNEE MUST BE PRESENT DURING THE TAP.
- 8.) WATER MAINS AND SERVICES SHALL HAVE A MINIMUM 6" CLEARANCE FROM UNDERGROUND ROCK/LEDGE.
- 9.) NO WATER SHALL BE SUPPLIED TO THE CONTRACTOR OR BUILDER THROUGH A WATER SERVICE THAT HAS NOT BEEN PLACED "IN-SERVICE" BY THE NEWBURYPORT WATER DEPT.
- 10.) ALL WATERMAINS, VALVES, AND EXPOSED IRON SHALL BE ENCASED IN POLYETHYLENE FOR CORROSION RESISTANCE. A MIN. 4 MIL THICK EPOXY LAYER SHALL BE APPLIED IN ACCORDANCE WITH ANSI/AWWA C105/A21.5
- 11.) ALL BOLTS USED FOR INSTALLATION OF THE WATERMAINS, HYDRANTS, WATER GATES, WATER SHUTOFFS, AND OTHER WATER ASSOCIATED STRUCTURES SHALL BE STAINLESS STEEL



PREPARED FOR

PLUM ISLAND LLC

79 PARKER STREET NEWBURYPORT, MA 01950



PLAN OF LAND

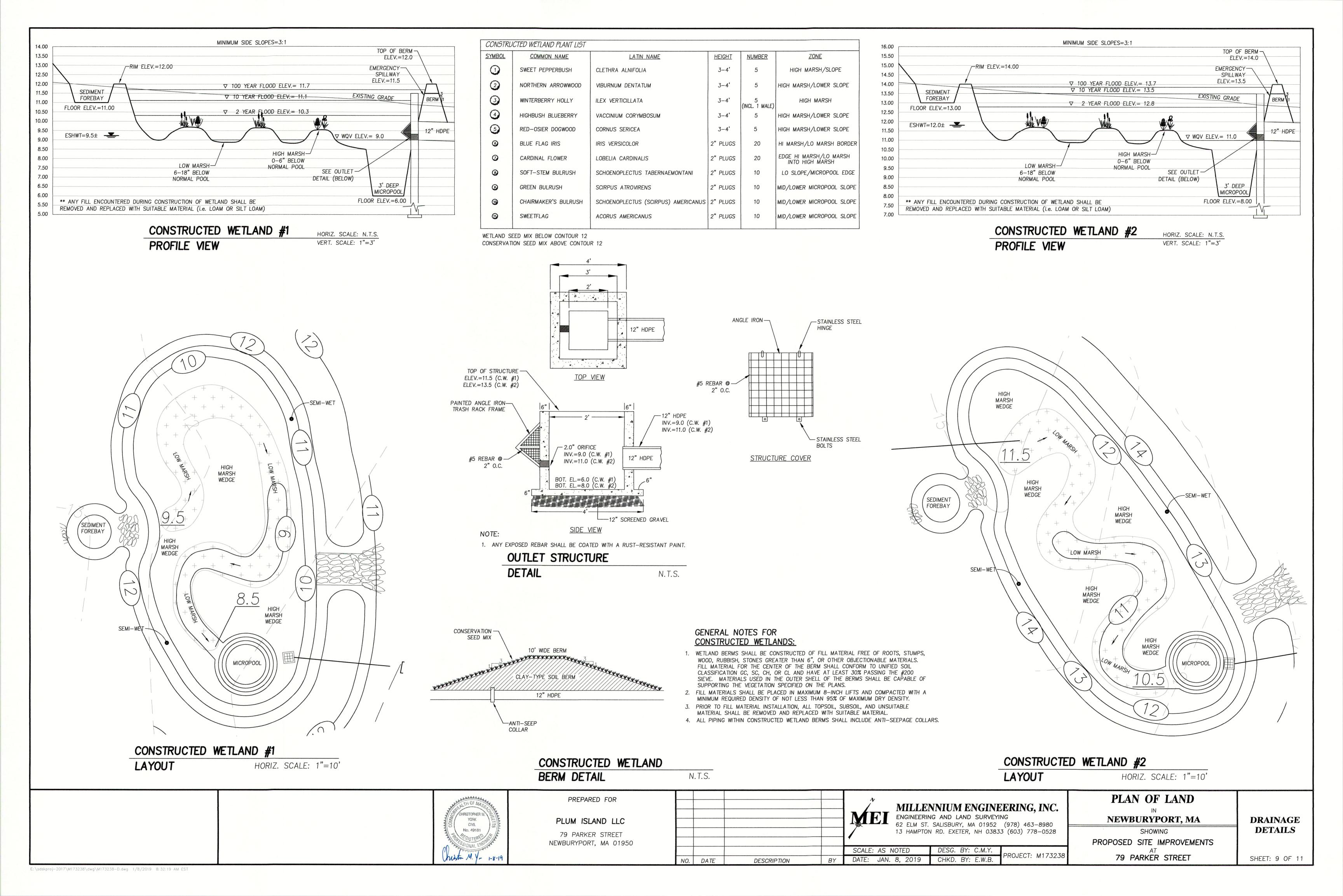
NEWBURYPORT, MA

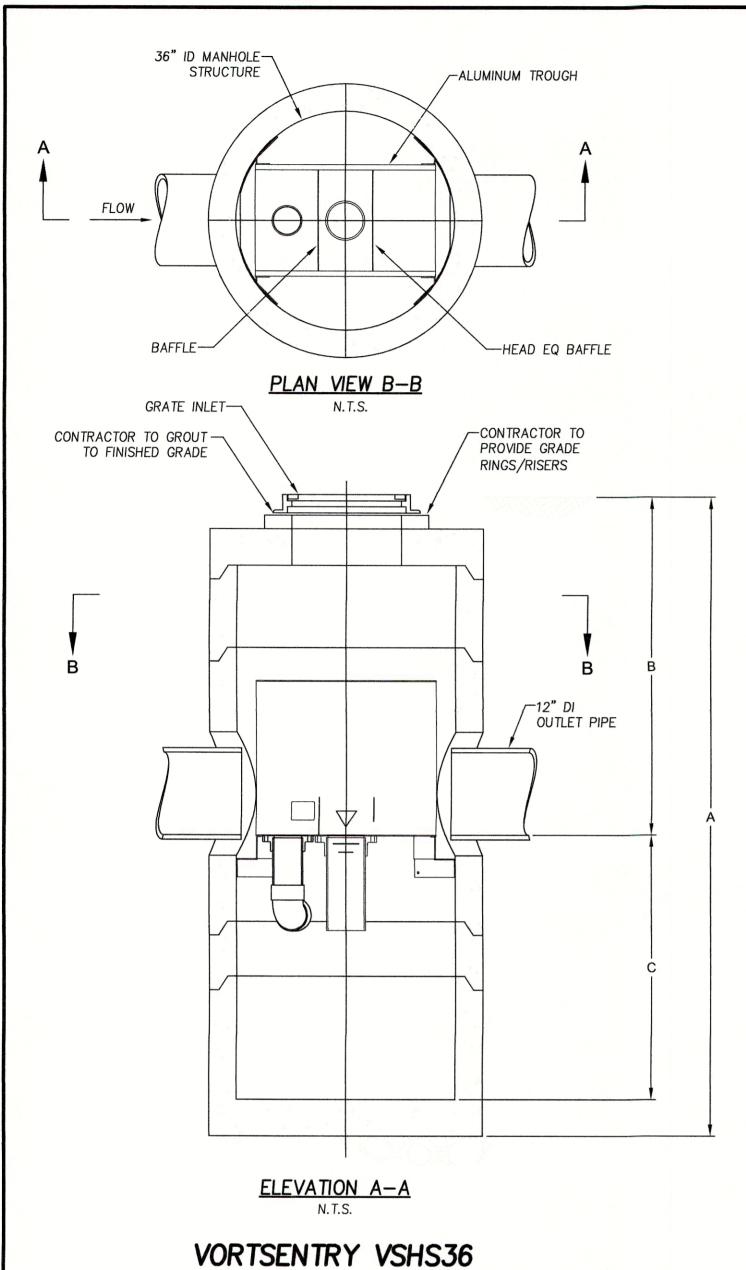
SHOWING

PROPOSED SITE IMPROVEMENTS 79 PARKER STREET

UTILITY **DETAILS**

SHEET: 8 OF 11





DETAIL

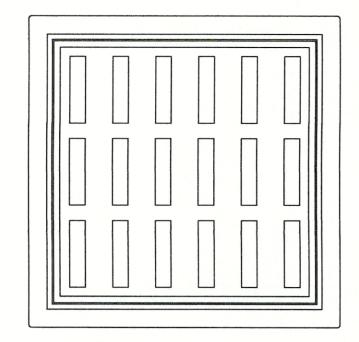
-12" HDPE W/ FLARED END STONE FOR PIPE ENDS-(MDOT ITEM M2.02.3) 12" MINIMUM APRON DEPTH OVER 8" MINIMUM CRUSHED STONE BASE OVER COMPACTED BACKFILL

> NOTE: GEOSYNTHETIC EROSION CONTROL MAT SHALL BE UNDER ALL RIP-RAP

TYPICAL RIP-RAP APRON DETAIL

N.T.S.

N.T.S.



FRAME AND GRATE (24" SQUARE)

- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
- 2. DIMENSIONS MARKED WITH () ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
- 3. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH CONSTRUCTION PRODUCTS REPRESENTATIVE. www.contech-cpi.com
- 4. VORTSENTRY HS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE
- WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. 5. STRUCTURE SHALL MEET AASHTO HS20 AND CASTINGS SHALL MEET AASHTO M306 LOAD RATING, ASSUMING GROUNDWATER ELEVATION AT, OR BELOW. THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION.

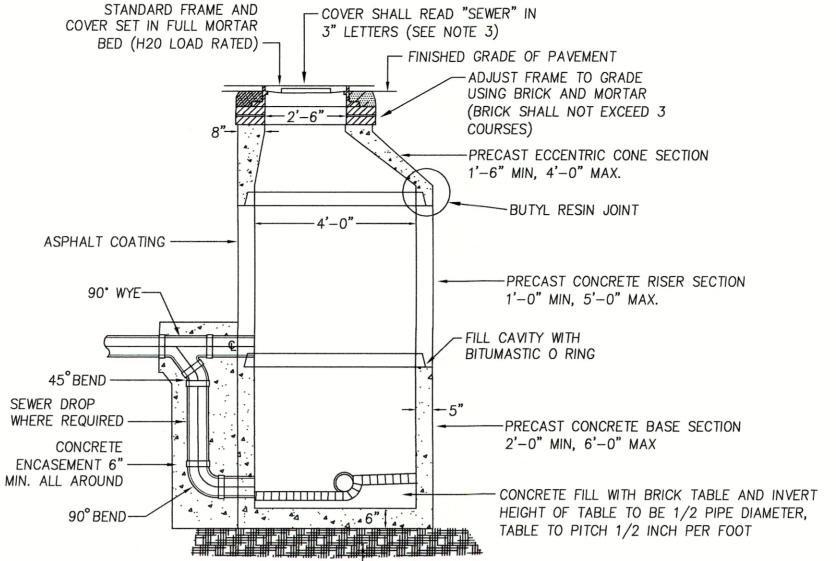
INSTALLATION NOTES

- 1. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER
- 2. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE VORTSENTRY HS MANHOLE STRUCTURE

(LIFTING CLUTCHES PROVIDED).

WITH ELEVATIONS SHOWN.

- 3. CONTRACTOR TO ADD JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS, AND
- 4. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS
- 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.



12" CRUSHED STONE BEDDING

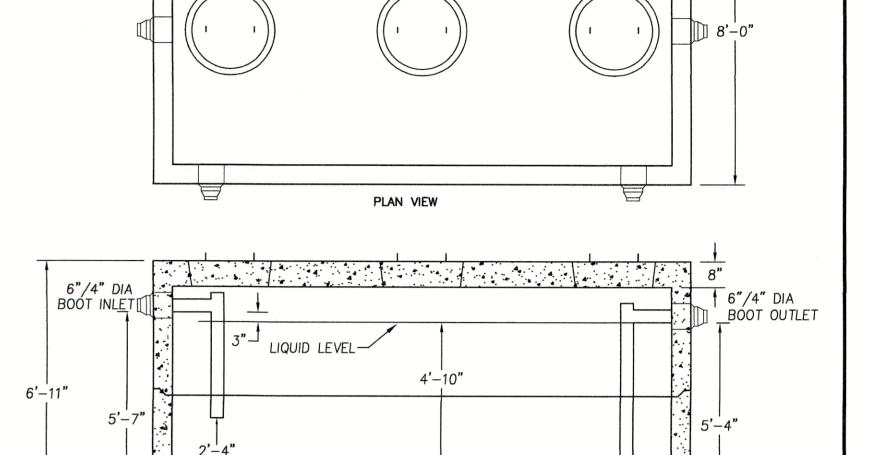
NOTES: 1) SEWER MANHOLES SHALL CONFORM TO ASTM C478 AND ASTM C185 2) COVER SHALL BE LEBARON FOUNDRY (MODEL NO. LA246), MECHANICS IRON FOUNDRY, NEEHAN FOUNDRY, OR EQUAL. 3) ALL PENETRATIONS IN THE MANHOLE FOR INSERTION OF PIPING

SHALL BE SEALED WITH KOR-N-SEAL FLEXIBLE PIPE CONNECTION.

PRECAST SEWER

MANHOLE DETAIL

N.T.S.



CONCRETE: 5,000 PSI MINIMUM AFTER 28 DAYS.

CLEANOUT COVER

(3 PLACES)

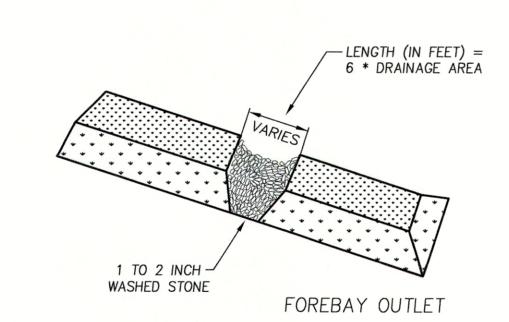
DESIGN CONFORMS WITH 310 CMR 15.00, DEP TITLE 5 REGS, FOR GREASE TRAPS

SECTION VIEW

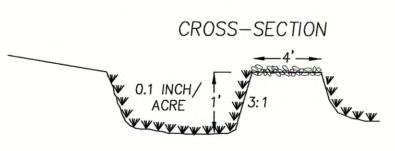
- ALL REINFORCEMENT PER ASTM C1227.
- DESIGNED FOR AASHTO HS-20 LOADING, 1 TO 5 FT COVER. TONGUE & GROOVE JOINT SEALED WITH BUTYL RESIN
- TEES AND BAFFLES SOLD SEPARATELY

3000 GALLON GREASE TRAP

N.T.S.

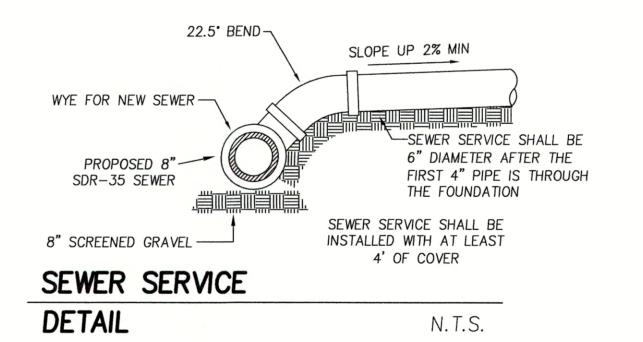


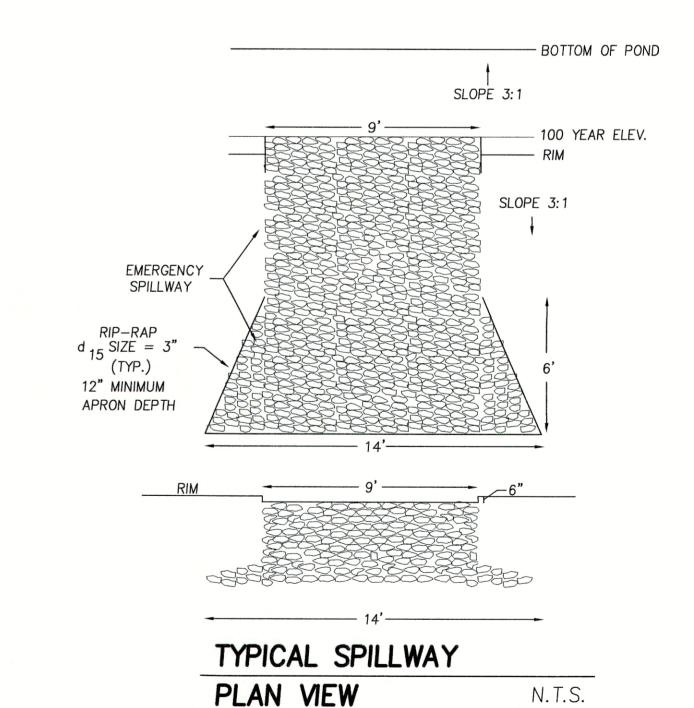
VOLUME OF SEDIMENT FOREBAY DRAINAGE AREA OUTLET (ACRES) LENGTH FOREBAY #1 6.0' 12'x12'x1.0' FOREBAY #2 234 16'x16'x1.0' 6.0'



SEDIMENT FOREBAY DETAIL

N.T.S.



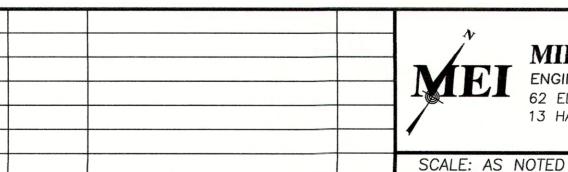


CIVIL

PREPARED FOR

PLUM ISLAND LLC

79 PARKER STREET NEWBURYPORT, MA 01950



DESCRIPTION

NO. DATE

MILLENNIUM ENGINEERING, INC.

ENGINEERING AND LAND SURVEYING

DESG. BY: C.M.Y.

CHKD. BY: E.W.B

DATE: JAN. 8, 2019

62 ELM ST. SALISBURY, MA 01952 (978) 463-8980 13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528

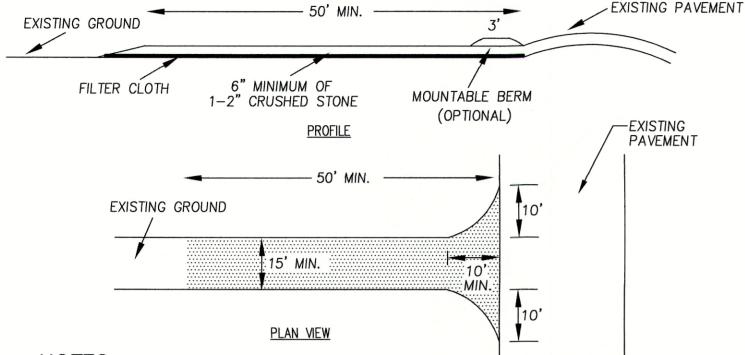
ROJECT: M173238

PLAN OF LAND **NEWBURYPORT, MA** SHOWING PROPOSED SITE IMPROVEMENTS

DRAINAGE/ **SEWER DETAILS**

79 PARKER STREET SHEET: 10 OF 11

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<u>NOTES</u>

- 1. STONE SHALL BE 1-2" STONE, RECLAIMED STONE, OR RECYCLED CONCRETE EQUIVALENT.
- THE LENGTH OF THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 50'.
- 3. THE THICKNESS OF THE STONE FOR THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 6"
- 4. GEOTEXTILE FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE. 5. ALL SURFACE WATER THAT IS FLOWING TO OR DIVERTED TOWARD THE CONSTRUCTION
- ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A BERM WITH 5:1 SLOPES THAT CAN BE CROSSED BY VEHICLES MAY BE SUBSTITUTED FOR THE PIPE. 6. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR
- FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP-DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, WASHED, OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED PROMPTLY.
- 7. WHEELS SHALL BE CLEANED TO REMOVE MUD PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

STABILIZED CONSTRUCTION

ENTRANCE

N.T.S.

GENERAL EROSION

- ALL FILL SHALL BE FREE OF STUMPS AND LARGE STONES.
- RAINFALL AND PROMPTLY REPAIRED OR REPLACED AS NECESSARY.
- OF ON A REGULAR BASIS.
- AREAS OUTSIDE THE LIMITS OF WORK (EROSION CONTROL/SILT FENCE LOCATIONS) DISTURBED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION
- EVENTS. REPAIRS, IF REQUIRED, SHALL BE MADE IMMEDIATELY.
- 8. TEMPORARY GROUND COVER SHALL BE ESTABLISHED IN AREAS OF CONSTRUCTION WHERE
- SHALL BE STABILIZED WITH LOAM AND SEED UNTIL FURTHER DISTURBANCE IS REQUIRED FOR BUILDING CONSTRUCTION.
- 10. THE CONTRACTOR SHALL IDENTIFY TO THE CITY HIS/HER TOPSOIL STOCKPILING OPERATIONS AND LOCATIONS. NO TOPSOIL SHALL LEAVE THE SITE IN ACCORDANCE WITH THE NEWBURYPORT
- 11. PROVIDE GRAVEL AND WIRE MESH SEDIMENT FILTER AT ALL CATCH BASINS. 12. A MINIMUM OF 6" OF LOAM SHALL BE INSTALLED ON ALL DISTURBED UNPAYED SURFACES.
- 13. SEED MIX SHALL BE 20 LBS./ACRE OF TALL FESCUE, 20 LBS./ACRE OF CREEPING RED FESCUE AND 10 LBS. / ACRE OF BIRDSFOOT TREFOIL. LIME SHALL BE APPLIED AT A RATE
- 14. NO MORE THAN 3 ACRES SHALL BE DISTURBED AT ONE TIME. ALL AREAS SHALL BE STABILIZED WITHIN 45 DAYS OF INITIAL DISTURBANCE.
- 15. WHERE PLACEMENT OF FILL IS REQUIRED FOR STORM WATER CONTROL, FILL SHALL BE PLACED IN AN UNFROZEN STATE UPON UNFROZEN GROUND. UNDER NO CIRCUMSTANCES

CONSTRUCTION

- 1. INSTALL SILT FENCE AT LIMIT OF WORK & STAKE OUT STORMWATER AREAS.
- 5. STRIP, SCREEN AND STOCKPILE TOPSOIL. TOPSOIL CAN BE TEMPORARILY STOCKPILED
- WITH SILT FENCE AT THE TOE OF SLOPE.
- 6. ROUGH GRADE & COMPACT CONSTRUCTED WETLANDS.
- 8. INSTALL UTILITIES/DRAINAGE STRUCTURES.
- 9. PLACE RIPRAP WHERE SHOWN ON PLANS. LOAM AND HYDROSEED SIDESLOPES AND ALL DISTURBED
- 10. CONSTRUCT REMAINING UTILITIES.
- TO ATTAIN FINAL DESIGN ELEVATIONS.
- 13. LOAM AND HYDROSEED ANY DISTURBED SURFACES ALONG EDGES OF PAVEMENT AS
- REQUIRED. ADD PLANTS AND SEED MIX TO CONSTRUCTED WETLAND.
- 14. PERFORM FINAL PAVING (TOP COURSE).

CHRISTOPHER M

YORK

CIVIL

No. 49181

15. REMOVE EROSION CONTROL.

CONTROL NOTES

- 1. ALL SILT FENCE SHALL BE INSTALLED BEFORE THE START OF CONSTRUCTION. SILT FENCE SHALL BE REMOVED UPON COMPLETION OF THE PROJECT AND STABILIZATION OF ALL SOIL.
- ANY STANDING BODIES OF WATER CREATED DURING EXCAVATION SHALL BE ELIMINATED.
- 4. EROSION CONTROL BARRIERS SHALL BE INSPECTED WEEKLY AND AFTER EVERY 0.5" OF
- 5. ACCUMULATED SEDIMENT DEPOSITS UPSTREAM OF BARRIERS SHALL BE PROPERLY DISPOSED
- AT THE EXPENSE OF THE CONTRACTOR. 7. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING EROSION AND/OR SEDIMENT CONTROLS DURING CONSTRUCTION. HE/SHE SHALL INSPECT CONTROLS WEEKLY AND AFTER ALL STORM
- REQUIRED BY THE NEWBURYPORT PLANNING BOARD. ANY DISTURBED AREAS OF THE SITE NOT USED FOR ROADWAY OR UTILITY CONSTRUCTION
- EARTH REMOVAL BYLAW, UNLESS APPROVED BY CITY OFFICIALS.
- OF 2 TONS/ACRE.
- SHALL FILL BE PLACED FROM NOVEMBER THROUGH JANUARY.

SEQUENCE

- 2. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE AS DEPICTED.
- CUT TREES.
- 4. CLEAR AND GRUB DEBRIS AND DISPOSE OF PROPERLY.
- ON SITE PROVIDING THAT THE PERIMETER OF THE STOCKPILES ARE PROPERLY STAKED
- 7. GRADE PAVEMENT TO TOP OF SUBGRADE ELEVATIONS. ROADWAY MUST BE
- STABILIZED IMMEDIATELY AFTER GRADING.
- AREAS WITHIN 72 HOURS.
- 11. SPREAD, SHAPE, AND COMPACT PAVEMENT SUBBASE AS PER TYPICAL ROADWAY SECTION
- 12. COMPLETE BINDER COURSE PAVING.

PLUM ISLAND LLC

PREPARED FOR

79 PARKER STREET NEWBURYPORT, MA 01950

MILLENNIUM ENGINEERING, INC. ENGINEERING AND LAND SURVEYING 62 ELM ST. SALISBURY, MA 01952 (978) 463-8980 13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528 DESG. BY: C.M.Y. SCALE: AS NOTED PROJECT: M173238 DATE: JAN. 8, 2019 CHKD. BY: E.W.B. NO. DATE DESCRIPTION

→ TEST PIT#01-17

FILL

Bw - FINE SANDY LOAM

C1 - SILT CLAY LOAM

ESHWT = 18" = 14.5

PERFORMED BY M. STEINEL

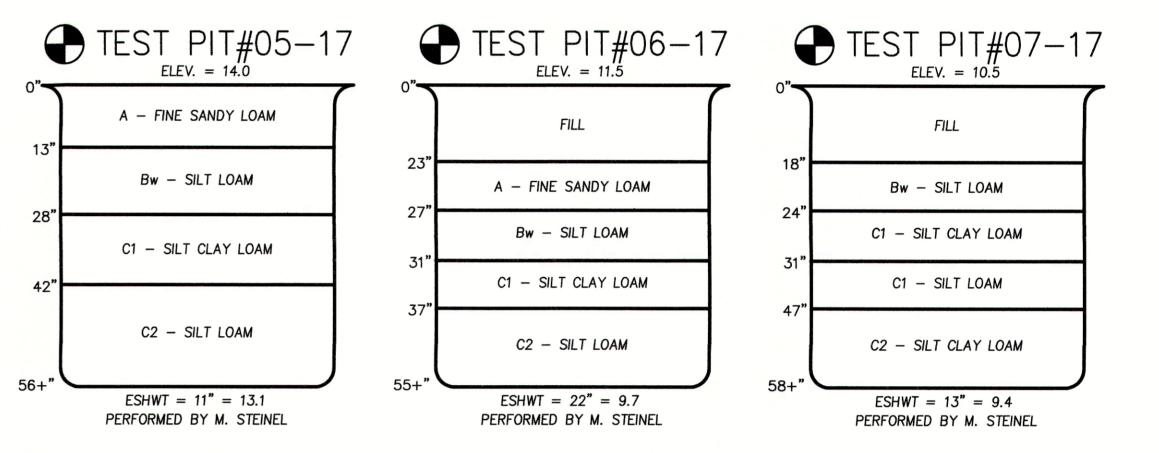
◆ TEST PIT#03-17 → TEST PIT#02-17 → TEST PIT#04-17 ELEV. = 13.0A - SANDY LOAM A - FINE SANDY LOAM Bw - SANDY LOAM Bw - SILT LOAM C1 - LOAM C1 - SILT CLAY LOAM C2 - SILT LOAM C2 - SILT LOAM

ESHWT = 11" = 12.1

PERFORMED BY M. STEINEL

ESHWT = 24" = 15.0

PERFORMED BY M. STEINEL



A - SANDY LOAM

Bw - SILT LOAM

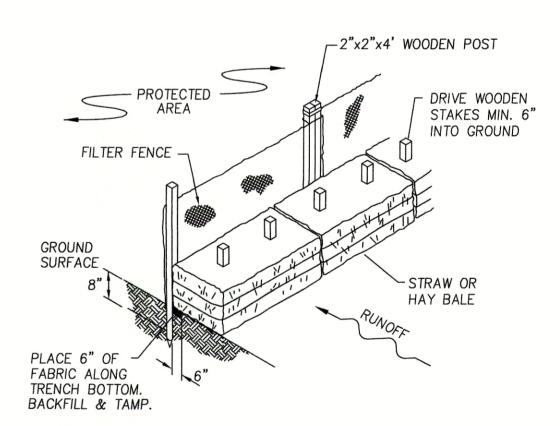
C1 - SILT CLAY LOAM

C2 - SILT LOAM

ESHWT = 12" = 16.0

PERFORMED BY M. STEINEL

51+



NOTES

- 1. POSTS SHALL BE DOUBLED AND COUPLED AT FILTER CLOTH SEAMS.
- 2. FILTER CLOTH TO BE FASTENED SECURELY TO SUPPORT NETTING WITH TIES SPACED EVERY 24" AT TOP, MID SECTION, AND BOTTOM.
- 3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6 INCHES, FOLDED AND STAPLED.

MAINTENANCE

- 1. SILT FENCE SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS THAT ARE REQUIRED SHALL BE MADE IMMEDIATELY.
- 2. IF THE FABRIC ON THE SILT FENCE SHALL DECOMPOSE OR BECOME INEFFECTIVE DURING THE EXPECTED LIFE OF THE FENCE, THE FABRIC SHALL BE REPLACED PROMPTLY.
- 3. SEDIMENT DEPOSITS SHALL BE INSPECTED AFTER EVERY STORM EVENT. THE DEPOSITS SHALL BE REMOVED WHEN THEY REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.

SILT FENCE/HAYBALE INSTALLATION N.T.S.

PLAN OF LAND

NEWBURYPORT, MA

SHOWING PROPOSED SITE IMPROVEMENTS

79 PARKER STREET

DRAINAGE/ **EROSION** CONTROL **DETAILS**

SHEET: 11 OF 11