

PLUM ISLAND LLC 28 PLUM ISLAND BLVD NEWBURY, MA 01951 BK. 36010 PG. 174

TOTAL AREA 173,585 S.F. ± 3.98 ACRES ±

**TOTAL AREA** 68,571 S.F. 1.57 ACRES

**TOTAL AREA** 84,220 S.F. 1.93 ACRES

PLUM ISLAND LLC 28 PLUM ISLAND BLVD NEWBURY, MA 01951 BK. 34029 PG. 300

# PLAN INDEX

SHEET NO.	TITLE				
1	COVER SHEET				
2	EXISTING CONDITIONS PLAN				
3	SITE PLAN				
4	UTILITY PLAN				
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7	SITE DETAILS				
8	UTILITY DETAILS				
9	DRAINAGE DETAILS				
10	DRAINAGE/SEWER DETAILS				
11	EROSION CONTROL DETAILS				
A1-A7	ELEVATIONS				
L-1	LANDSCAPE PLAN				

## **WAIVERS**

<u>SECTION</u> XV-E b. 3. XV-E b. 4. ENVIRONMENTAL AND COMMUNITY IMPACT **ANALYSIS** TRAFFIC IMPACT STUDY

E:\sdskproj-2017\M173238\dwg\M173238-D.dwg 2/26/2019 8:34:41 AM EST

WAIVER REQUESTED NO ANALYSIS PROVIDED.

NO STUDY PROVIDED.

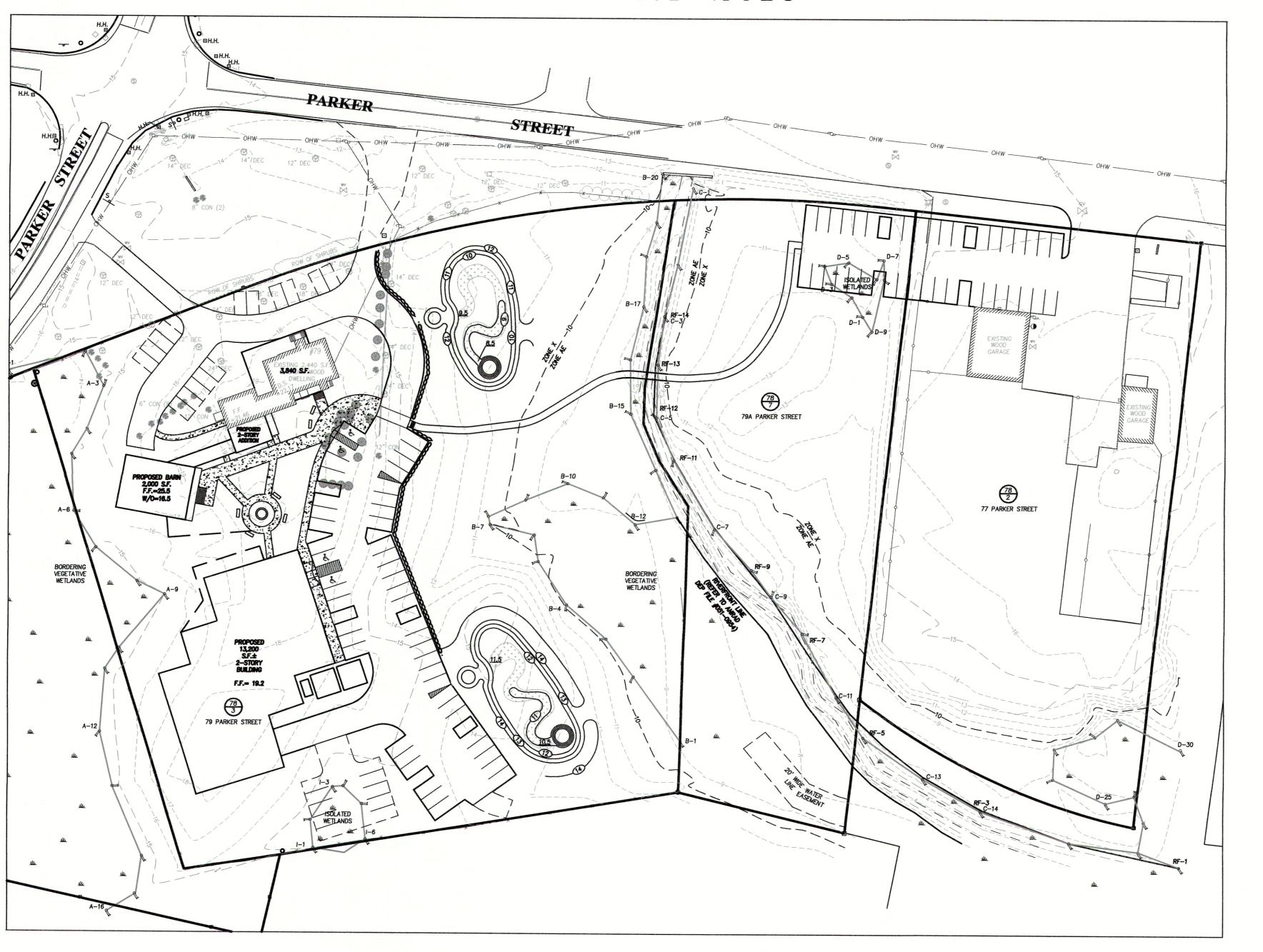
SITE PLAN

FOR

77, 79 & 79A PARKER STREET

NEWBURYPORT, MA

# FEBRUARY 2019



#### ZONING TABLE

	ZOMINO	IADLE				
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 I1B — 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	82.5 FT			
SIDE SETBACK:	20 FT	30.5 FT	28.7 FT			
REAR SETBACK:	20 FT	261.0 FT	251.3 FT			
LOT COVERAGE:	30%	2.3%	1.1%			
OPEN SPACE:	N.A.	N.A.	N.A.			

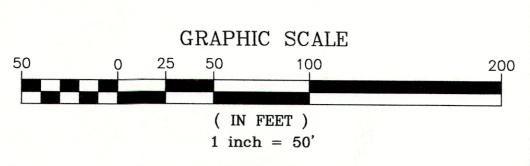
# \* SEE DIMENSIONAL TABLE, B1 DISTRICT

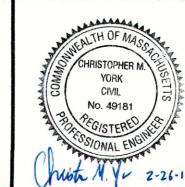
79 PARKER STREET — ASSESSORS MAP 78 LOT 3 ZONING DISTRICT I1B — USE 501 (RESTAURANT)							
REQUIRED EXISTING PROPOSED							
LOT AREA:	20,000 S.F.	173,585± S.F.	173,585± S.F.				
LOT FRONTAGE:	120 FT	504.71 FT	504.71 FT				
FRONT SETBACK:	25 FT	48.6 FT	186.9 FT				
SIDE SETBACK:	25 FT	30.5 FT	23.6 FT				
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.				

<sup>\*</sup> SEE DIMENSIONAL TABLE, B1 DISTRICT

79 PARKER STREET — ASSESSORS MAP 78 LOT 3 ZONING DISTRICT 11B — 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.				

<sup>\*</sup> SEE DIMENSIONAL TABLE, B1 DISTRICT





PLUM ISLAND LLC 79 PARKER STREET NEWBURYPORT, MA 01950

PREPARED FOR

2	2/26/19	ADDRESS REVIEWER'S COMMENTS	C.1
1	2/14/19	NOTICE OF INTENT FILING	C.I
NO.	DATE	DESCRIPTION	Е



SCALE: 1"=50'

DATE: JAN. 8, 2019

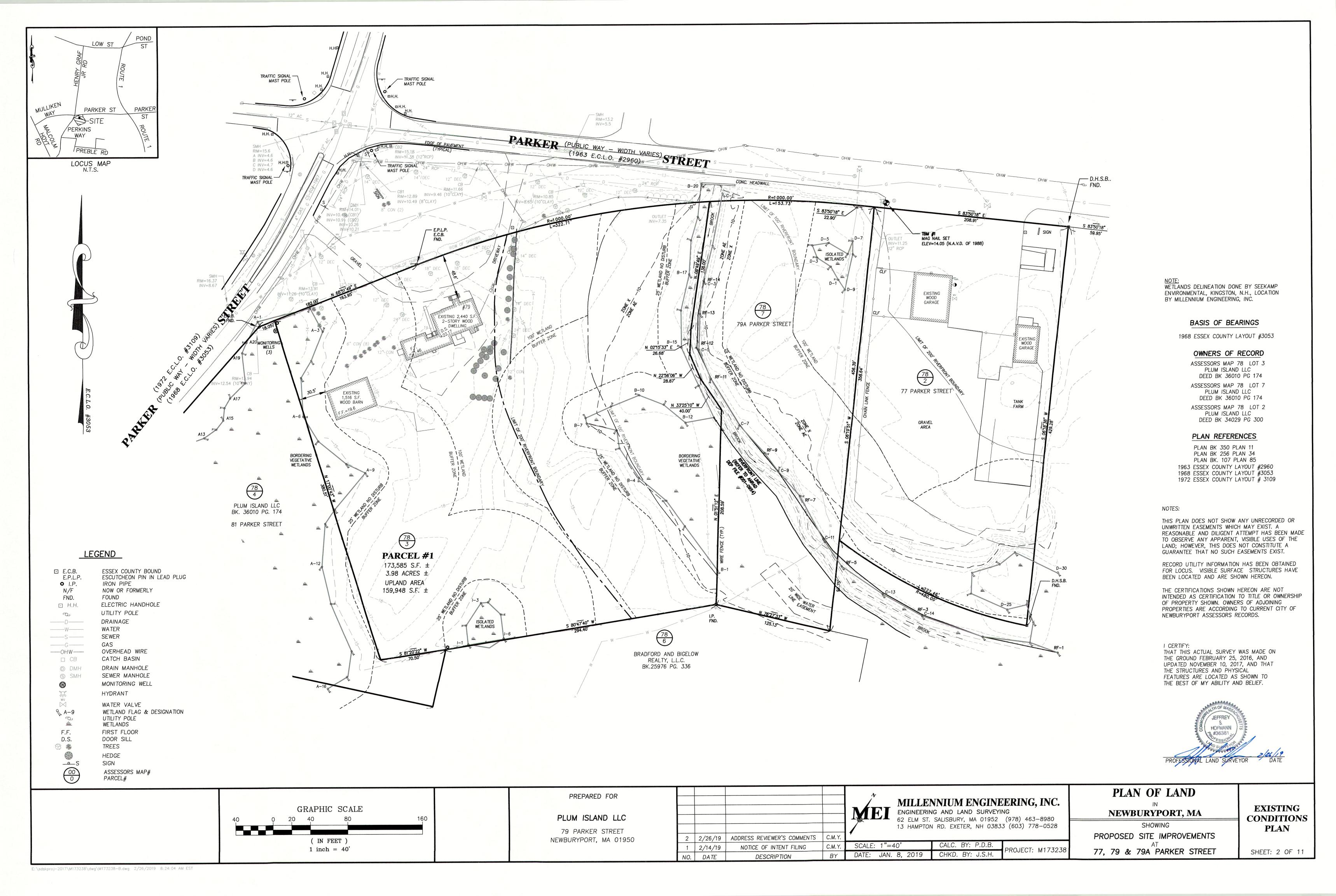
MILLENNIUM ENGINEERING, INC.

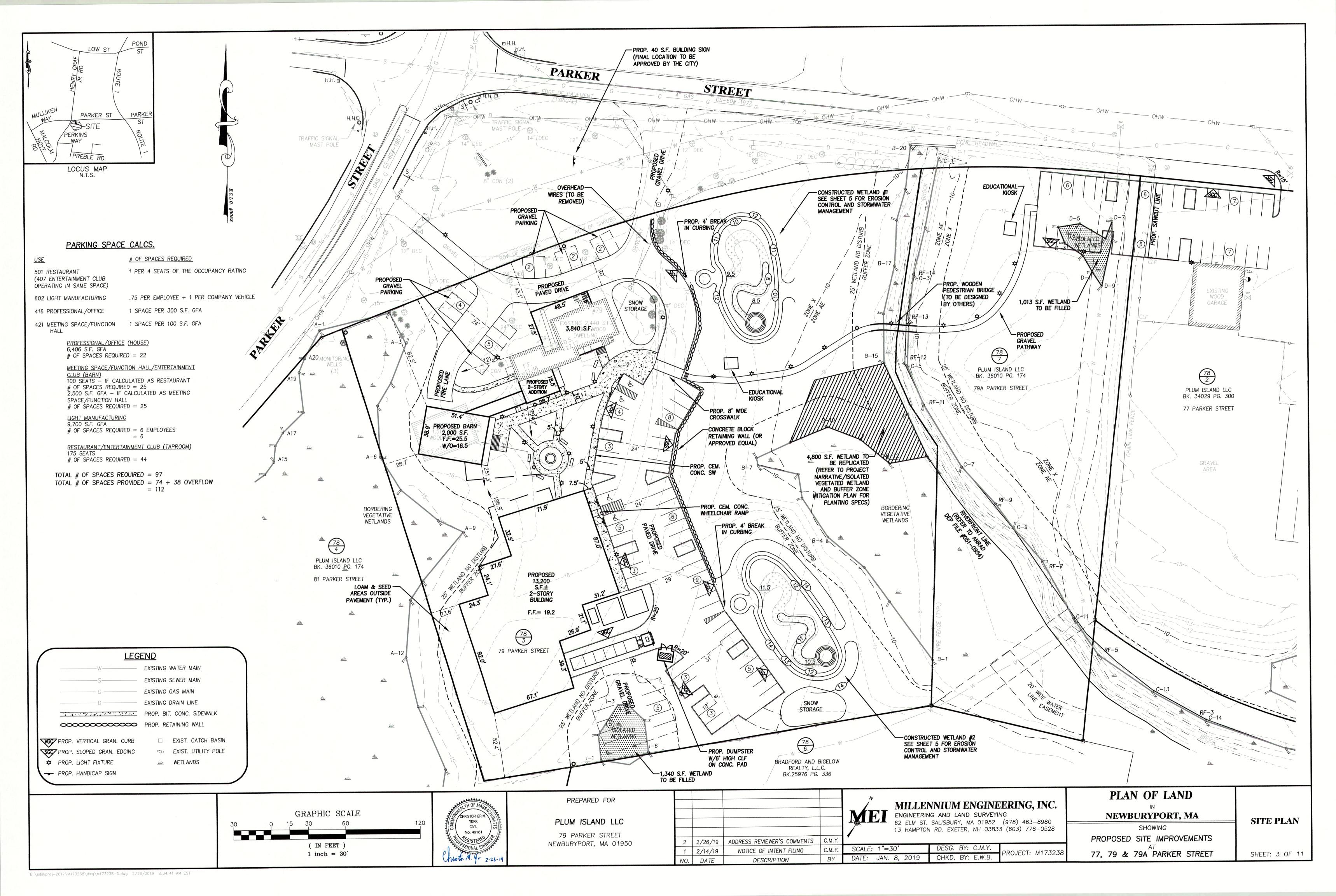
ENGINEERING AND LAND SURVEYING 62 ELM ST. SALISBURY, MA 01952 (978) 463-8980 13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528

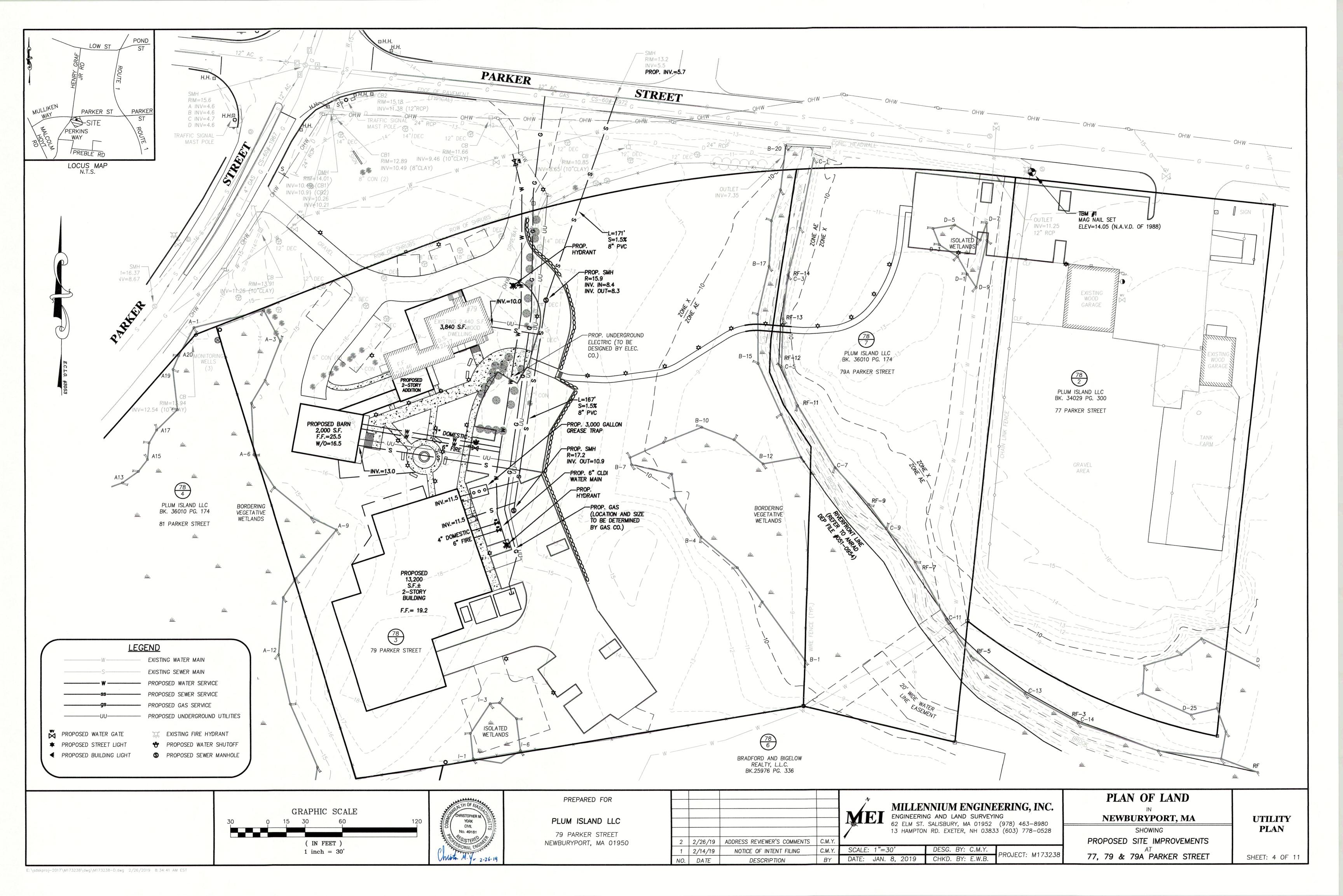
DESG. BY: C.M.Y.

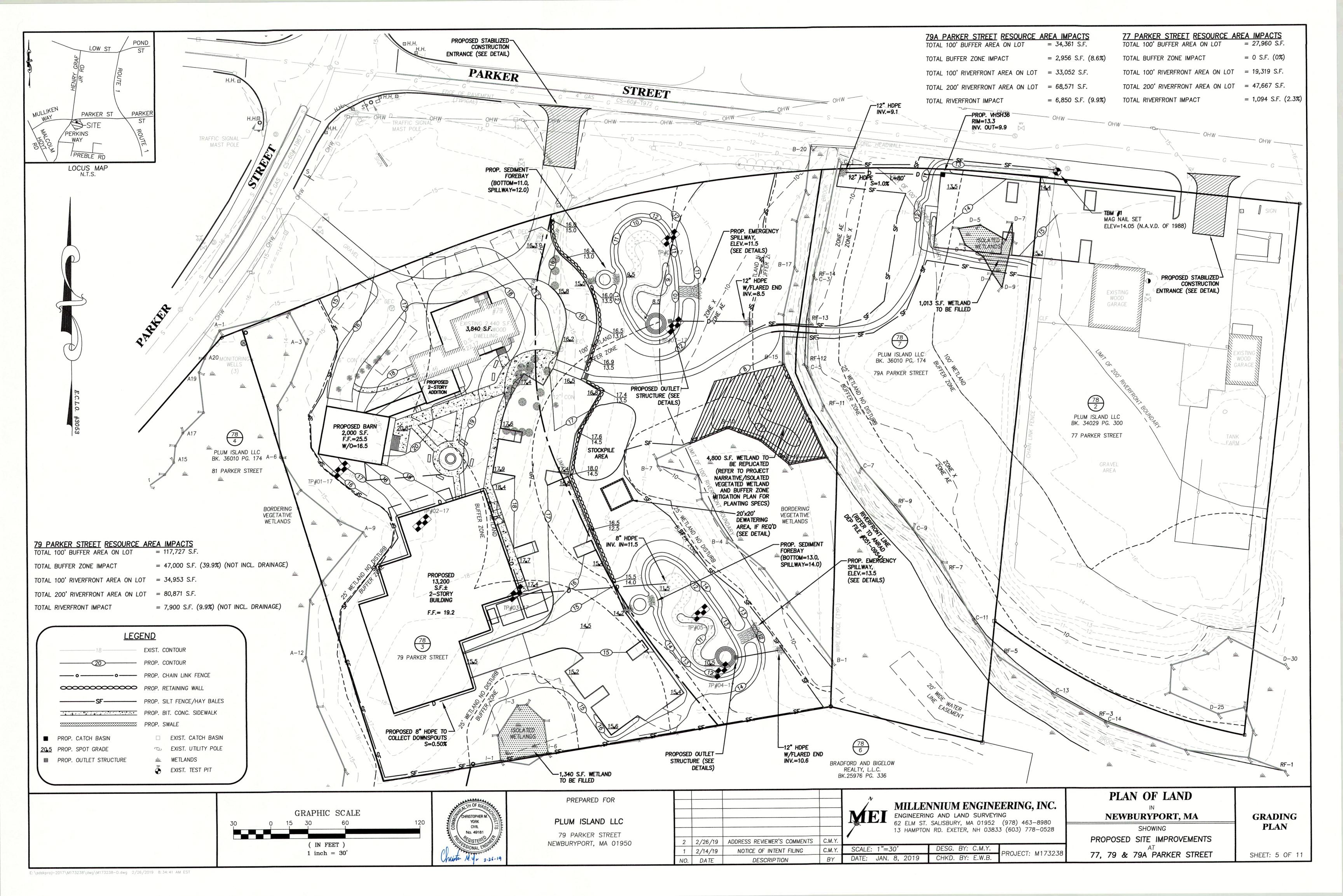
PLAN OF LAND	
IN	
NEWBURYPORT, MA	COVED CHEEZ
SHOWING	COVER SHEET
PROPOSED SITE IMPROVEMENTS	
77, 79 & 79A PARKER STREET	SHEET: 1 OF 11

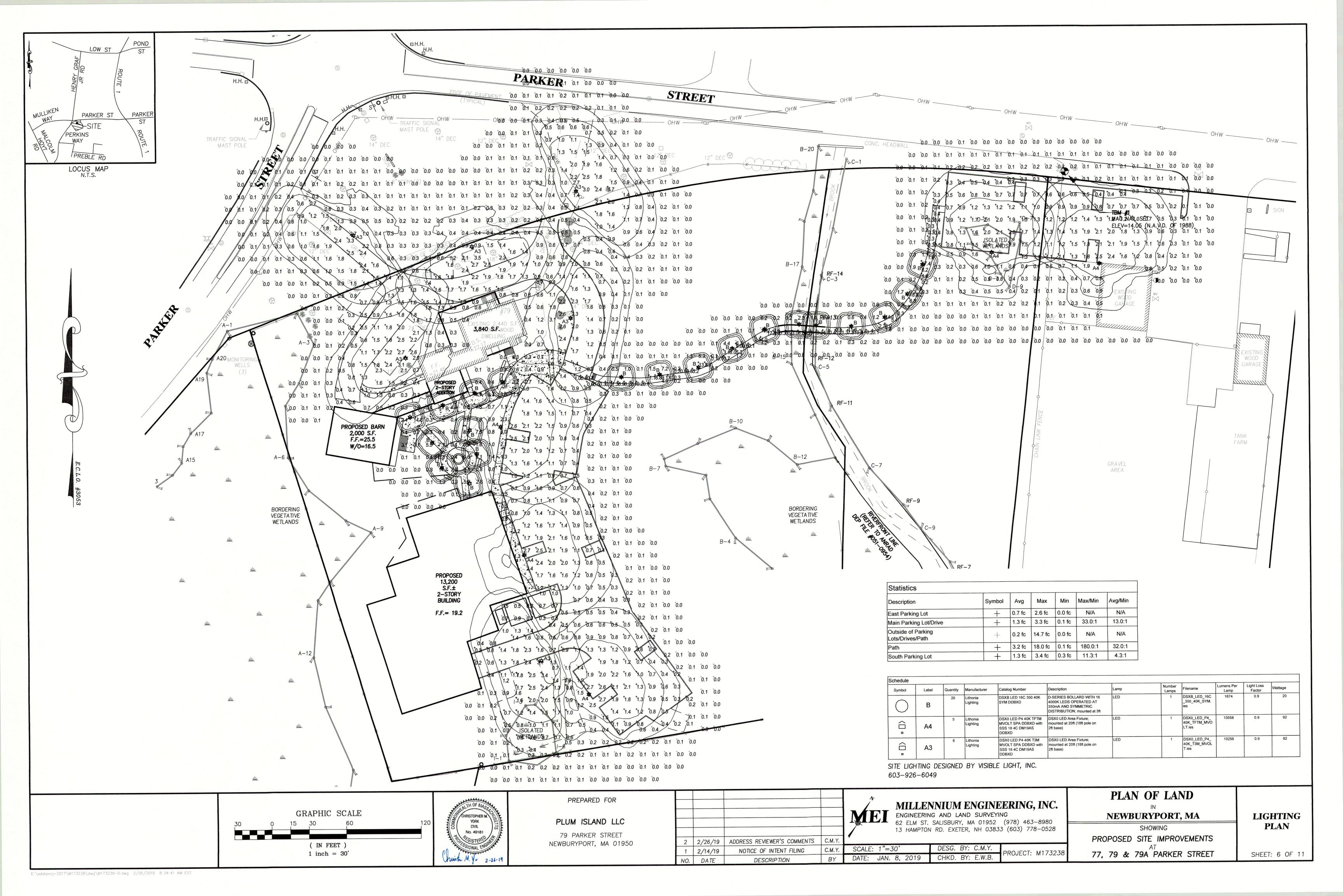
SHEET: 1 OF 11

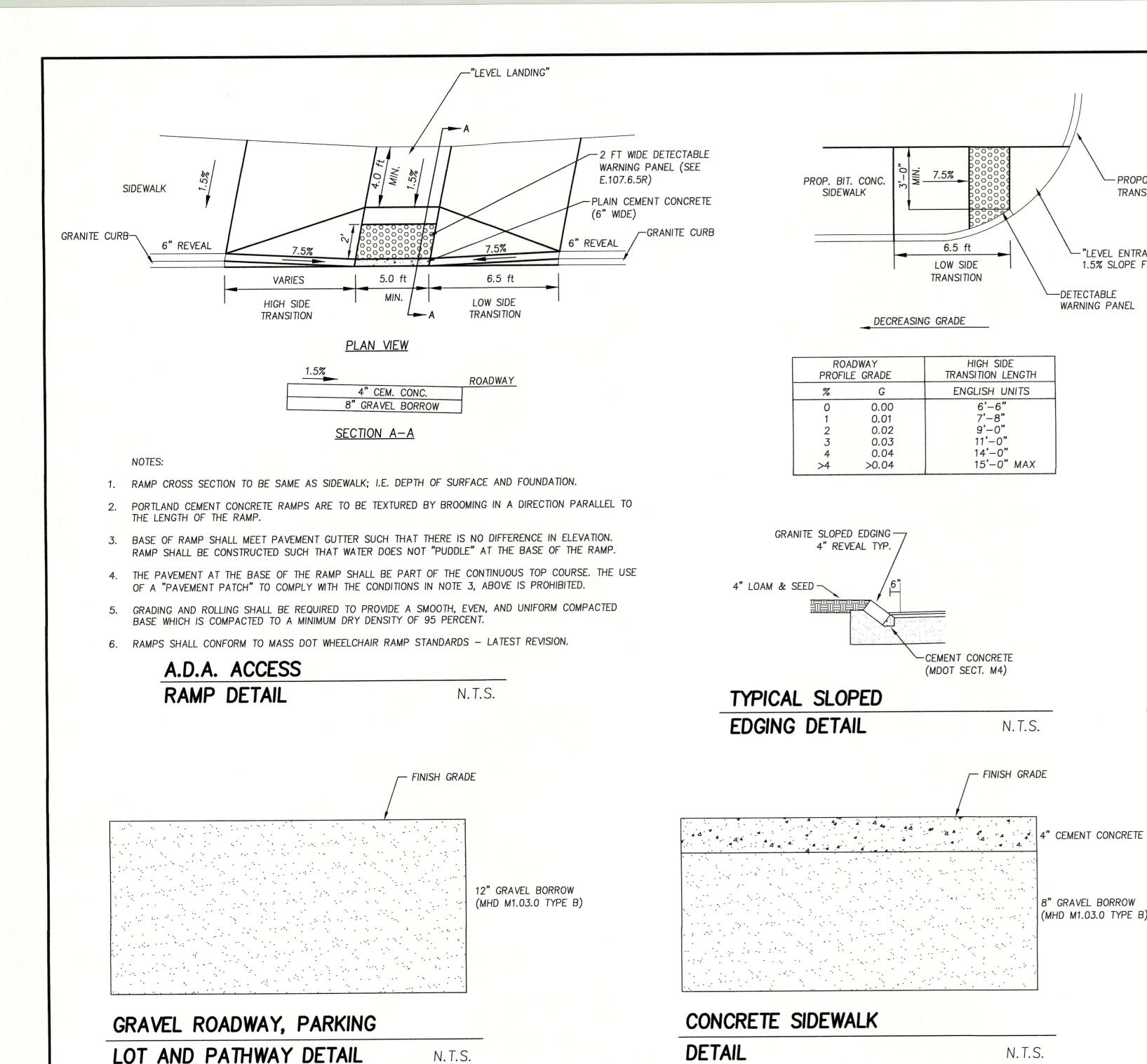


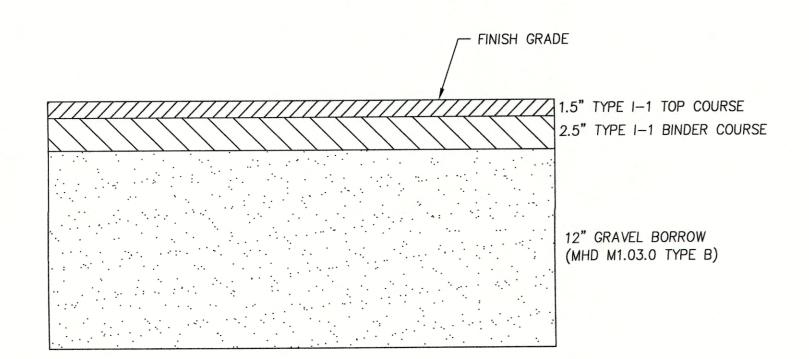






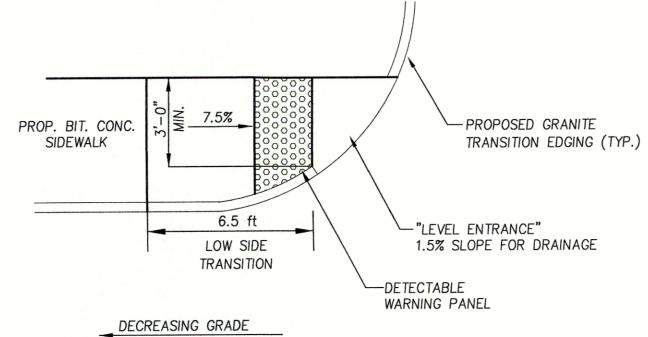






PAVED ROADWAY & PARKING LOT DETAIL

N.T.S.



N.T.S.

- FINISH GRADE

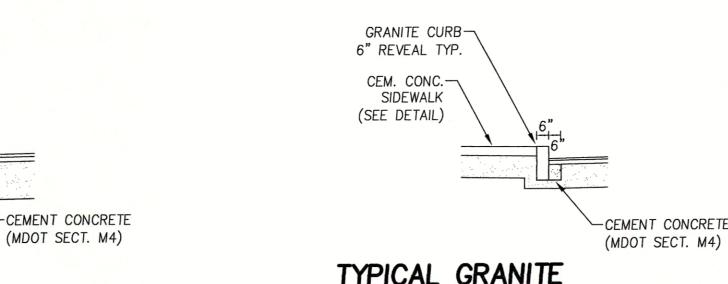
N.T.S.

8" GRAVEL BORROW

(MHD M1.03.0 TYPE B)

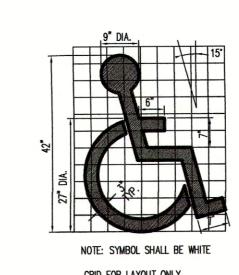
	ADWAY .E GRADE	HIGH SIDE TRANSITION LENGTH	
%	G	ENGLISH UNITS	
0	0.00	6'-6"	
1	0.01	7'-8"	
2	0.02	9'-0"	
3	0.03	11'-0"	
4	0.04	14'-0"	
>4	>0.04	15'-0" MAX	

4" REVEAL TYP.



TYPICAL GRANITE

CURB INSTALLATION

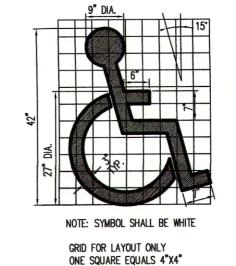


3' MIN.

DEPTH

N.T.S.

PAINTED HANDICAP PARKING SYMBOL



HANDICAP PARKING

SIGN DETAIL

N.T.S.

-1/8" ALUMINUM PANEL WITH

SCREEN PRINTED SYMBOL

2" SQUARE ALUMINUM OR

GALVANIZED METAL POST

— 6" DIA. CONCRETE—FILLED

CONCRETE (MIN. OF

BIT. CONC. WEARING COURSE

3' MIN.

DEPTH ---

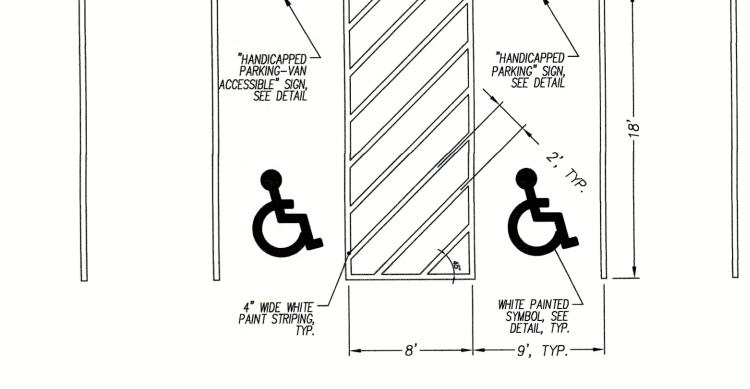
SIGN DETAIL

BIT. CONC. BINDER COURSE

N.T.S.

4" ALL AROUND BOLLARD)

PIPE BOLLARD



HANDICAP PARKING VAN-ACCESSIBLE

HANDICAP PARKING DETAIL

N.T.S.

-1/8" ALUMINUM PANEL WITH

SCREEN PRINTED SYMBOL

2" SQUARE ALUMINUM OR

GALVANIZED METAL POST

—— 6" DIA. CONCRETE—FILLED

CONCRETE (MIN. OF

BIT. CONC. WEARING COURSE

N.T.S.

BIT. CONC. BINDER COURSE

4" ALL AROUND BOLLARD)

PIPE BOLLARD

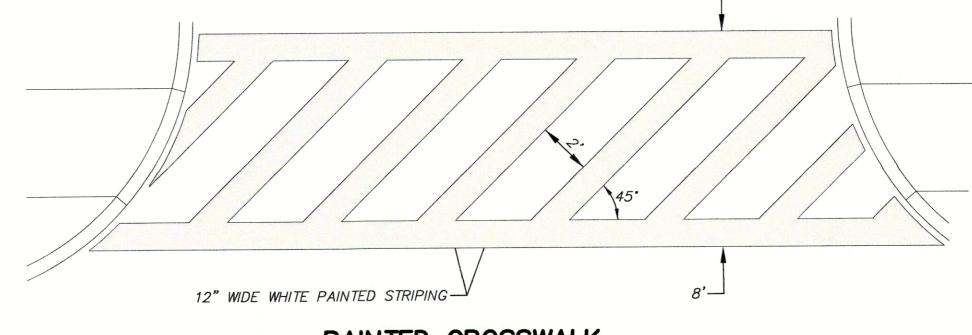
VAN

# PAVEMENT NOTES

- 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" 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.



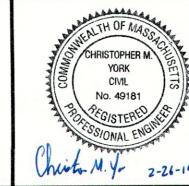
PAINTED CROSSWALK DETAIL

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 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)



PREPARED FOR

PLUM ISLAND LLC

79 PARKER STREET NEWBURYPORT, MA 01950

				MEI	ENGINEERIN 62 ELM ST.	NNIUM ENGINE NG AND LAND SURVEYII SALISBURY, MA 01952 N RD. EXETER, NH 0383	NG (978) 463-8980
2	2/26/19	ADDRESS REVIEWER'S COMMENTS	C.M.Y.	,			
1	2/14/19	NOTICE OF INTENT FILING	C.M.Y.	SCALE: AS N	OTED	DESG. BY: C.M.Y.	PROJECT: M173238
NO	DATE	DESCRIPTION	BY	DATE: JAN.	8, 2019	CHKD. BY: E.W.B.	1 NOOLO1. WI170200

PLAN OF LAND

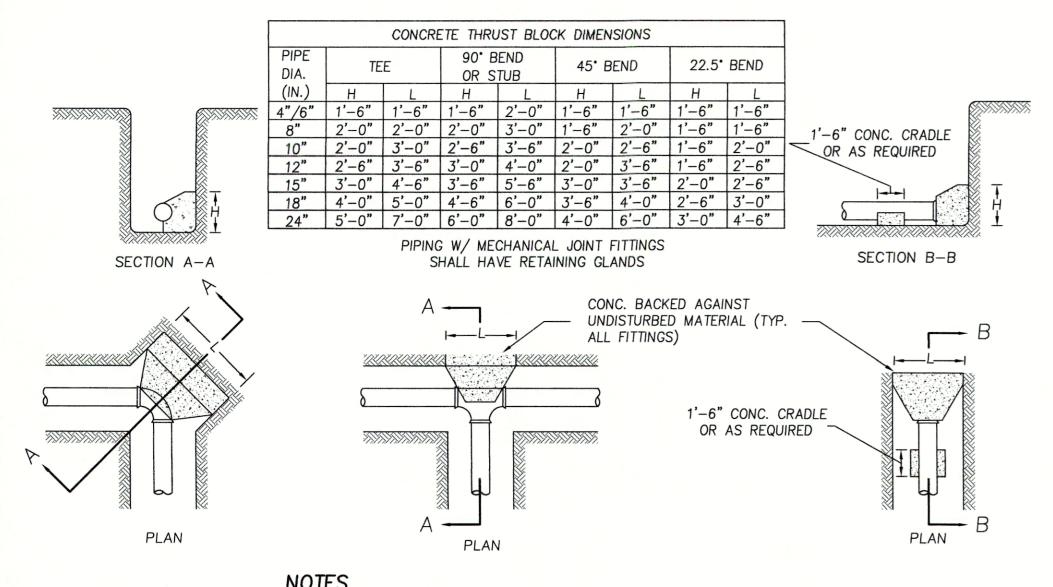
**NEWBURYPORT, MA** 

SHOWING PROPOSED SITE IMPROVEMENTS 77, 79 & 79A PARKER STREET

SITE **DETAILS** 

SHEET: 7 OF 11

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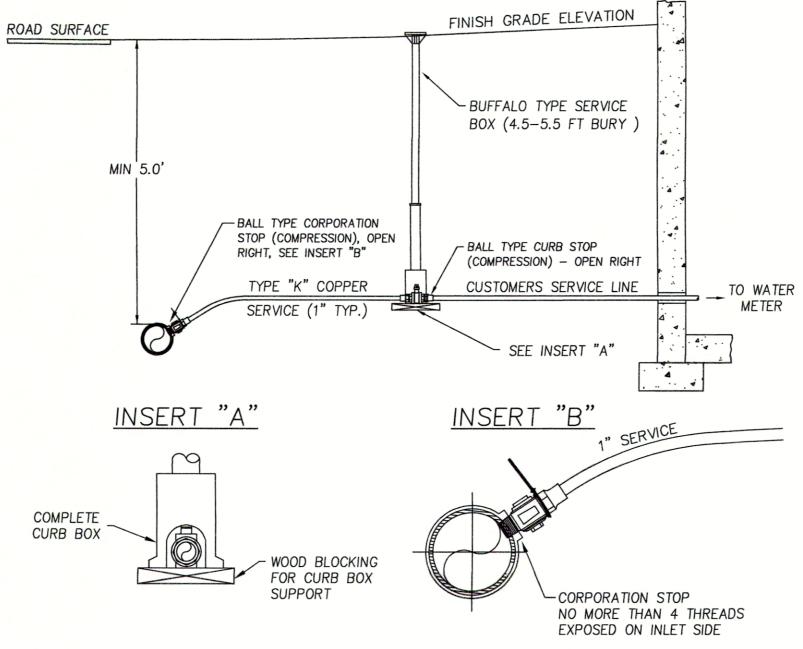


- 1. VALUES SHOWN ARE FOR TEST PRESSURE OF 150 PSI WITH A 100 PSI SURGE ALLOWANCE. 2. THRUST BLOCKS SHALL NOT BE PLACED AGAINST THE FOLLOWING SOILS: PEAT, ORGANIC SILT AND ORGANIC SOILS, SOFT CLAY, RUBBISH FILL AND OTHER UNSUITABLE ARTIFICIAL FILL, SHATTERED SHALE, INORGANIC SILT AND VERY FINE SANDS.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

THRUST BLOCK

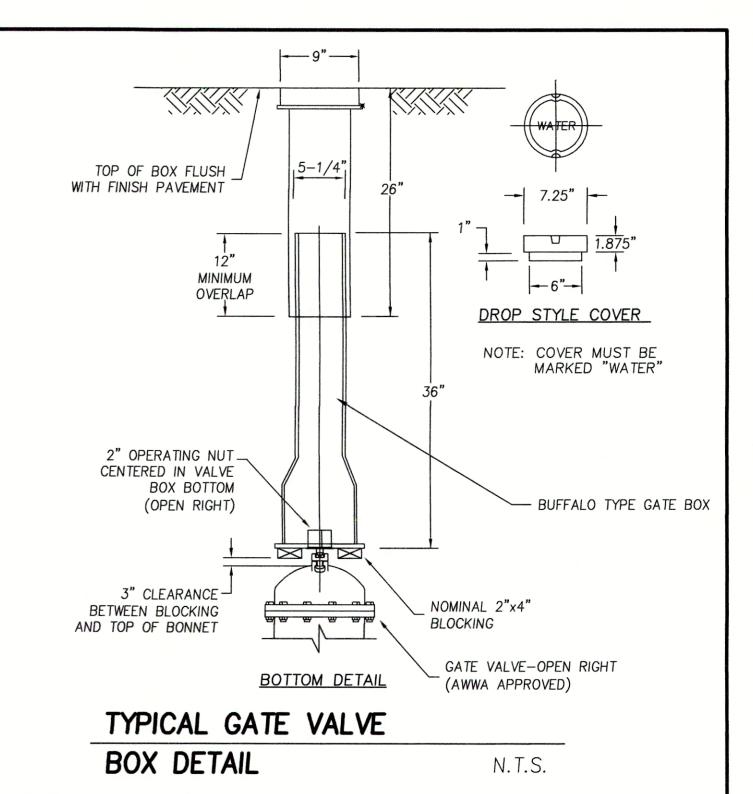
**DETAILS** 

N.T.S.



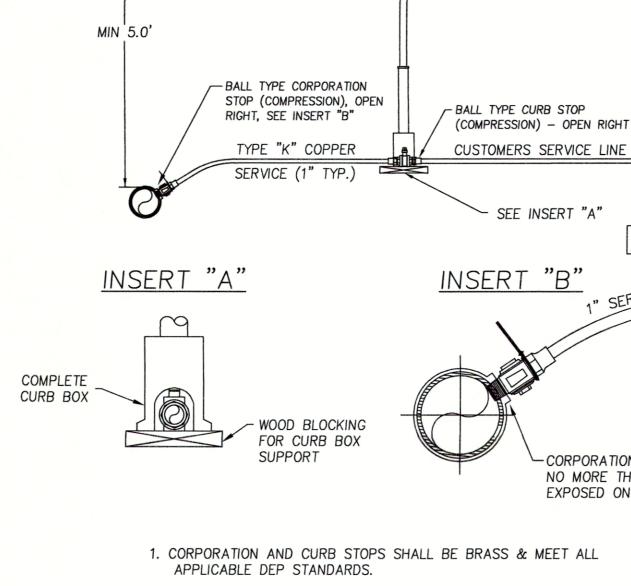
TYPICAL COPPER SERVICE CONNECTION

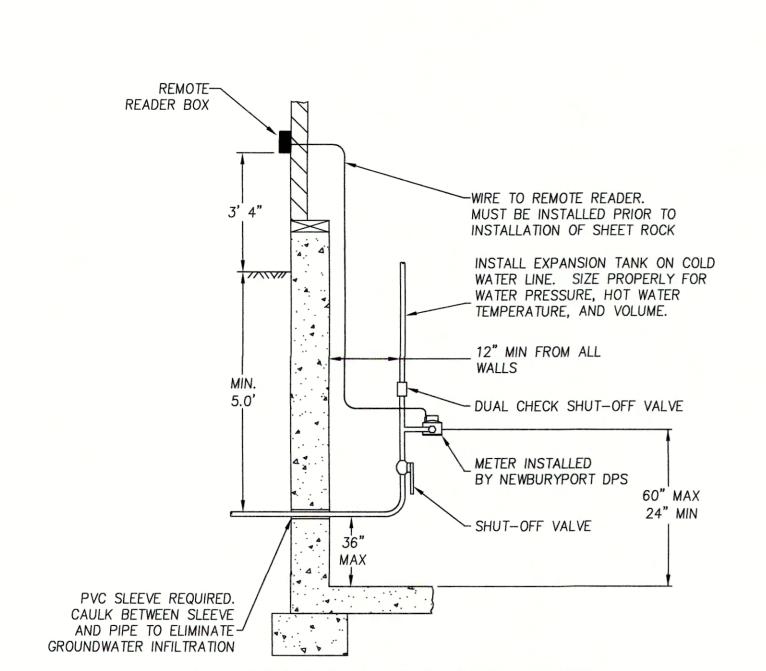
N.T.S.



### 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).
- 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



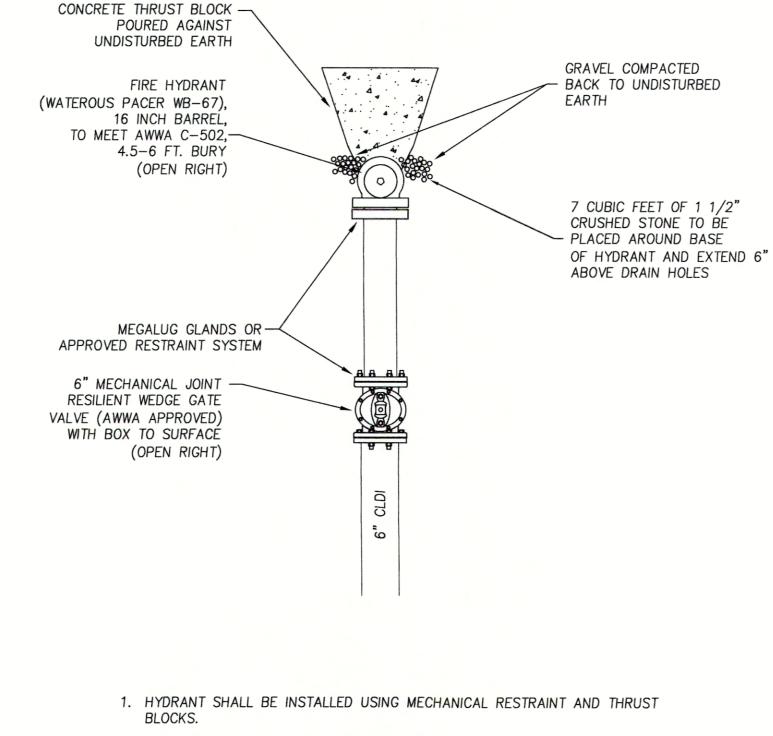


1. ALL WATER METERS MUST BE PURCHASED FROM THE CITY AND INSTALLED BY AN EMPLOYEE OF THE NEWBURYPORT DPS-WATER DIVISION.

WATER METER

DETAIL

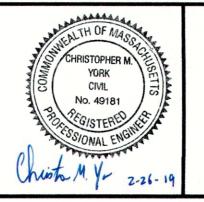
N.T.S.



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



PREPARED FOR

PLUM ISLAND LLC

79 PARKER STREET NEWBURYPORT, MA 01950

SCALE: AS NOTED

DATE: JAN. 8, 2019

EXCAVATION IN EARTH

TYPICAL TRENCH

DETAIL

C.M.Y.

CROSS COUNTRY AREAS \_\_\_\_\_

LOAM & SEED, AS SPECIFIED -

SUITABLE BACKFILL TO BE ----

REQUIREMENTS.

OF THE PIPE.

PLACED AND COMPACTED IN 1

SHEETING, IF REQUIRED, SHALL BE CUT OFF ---

GRADE AND ONE FOOT ABOVE THE CROWN

2/26/19 | ADDRESS REVIEWER'S COMMENTS

2/14/19

NO. DATE

NOTICE OF INTENT FILING

DESCRIPTION

AT LEAST FIVE (5) FEET BELOW STREET

FOOT LIFTS TO MASS DOT

MILLENNIUM ENGINEERING, INC. ENGINEERING AND LAND SURVEYING

DESG. BY: C.M.Y.

CHKD. BY: E.W.B.

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

- EXCAVATION IN LEDGE

N.T.S.

- PAVED AREAS

--- PAVEMENT AND BASE, AS SPECIFIED

SUITABLE BACKFILL TO BE PLACED

AND COMPACTED IN 12 INCH LIFTS

SELECT MATERIAL OR GRAVEL

SELECT MATERIAL BEDDING

ROJECT: M173238

COMPACTED IN 6" LIFTS

-EXISTING GROUND

1.0' MIN. BORROW PLACED AND

W W W W

SHOWING PROPOSED SITE IMPROVEMENTS

PLAN OF LAND

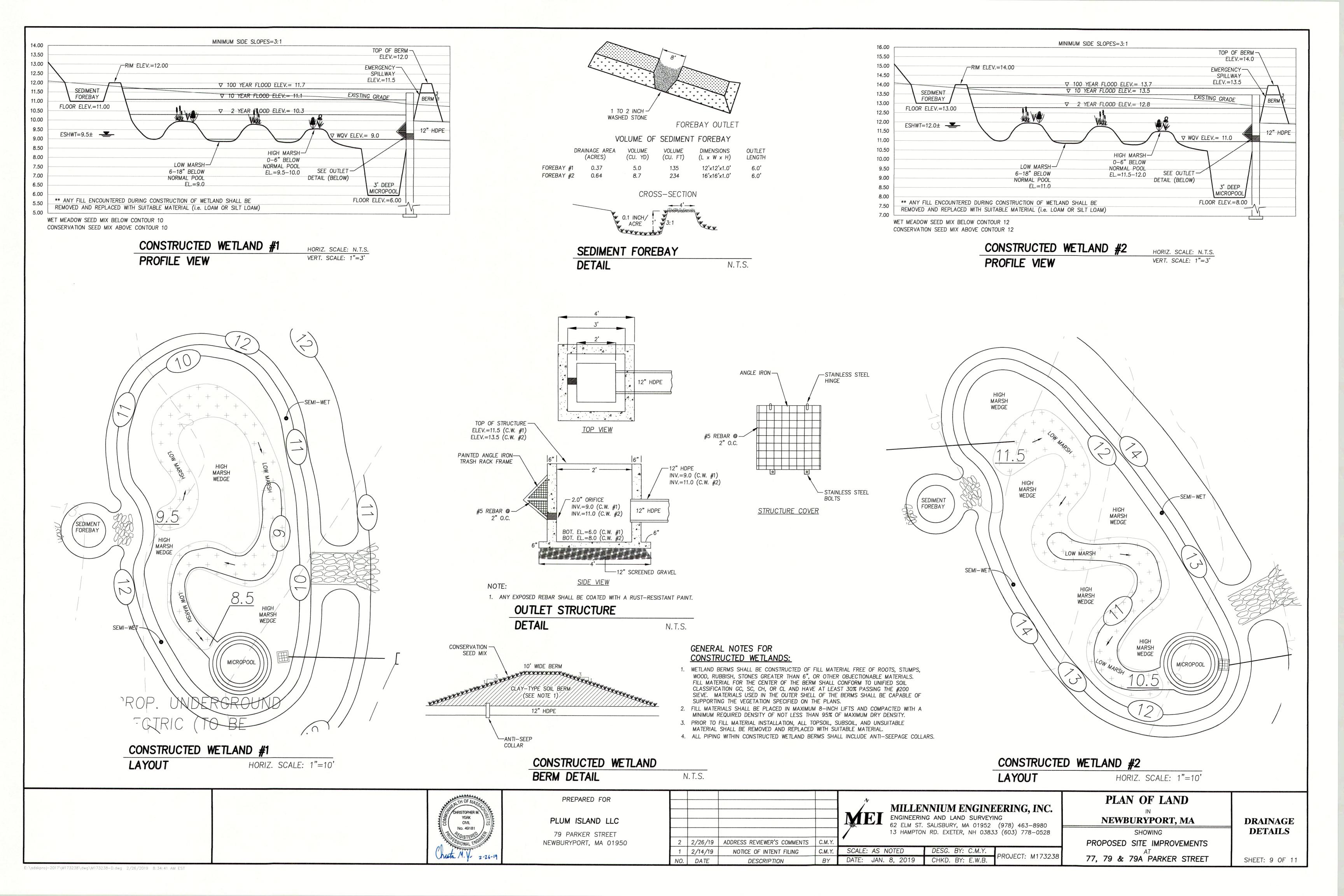
**NEWBURYPORT, MA** 

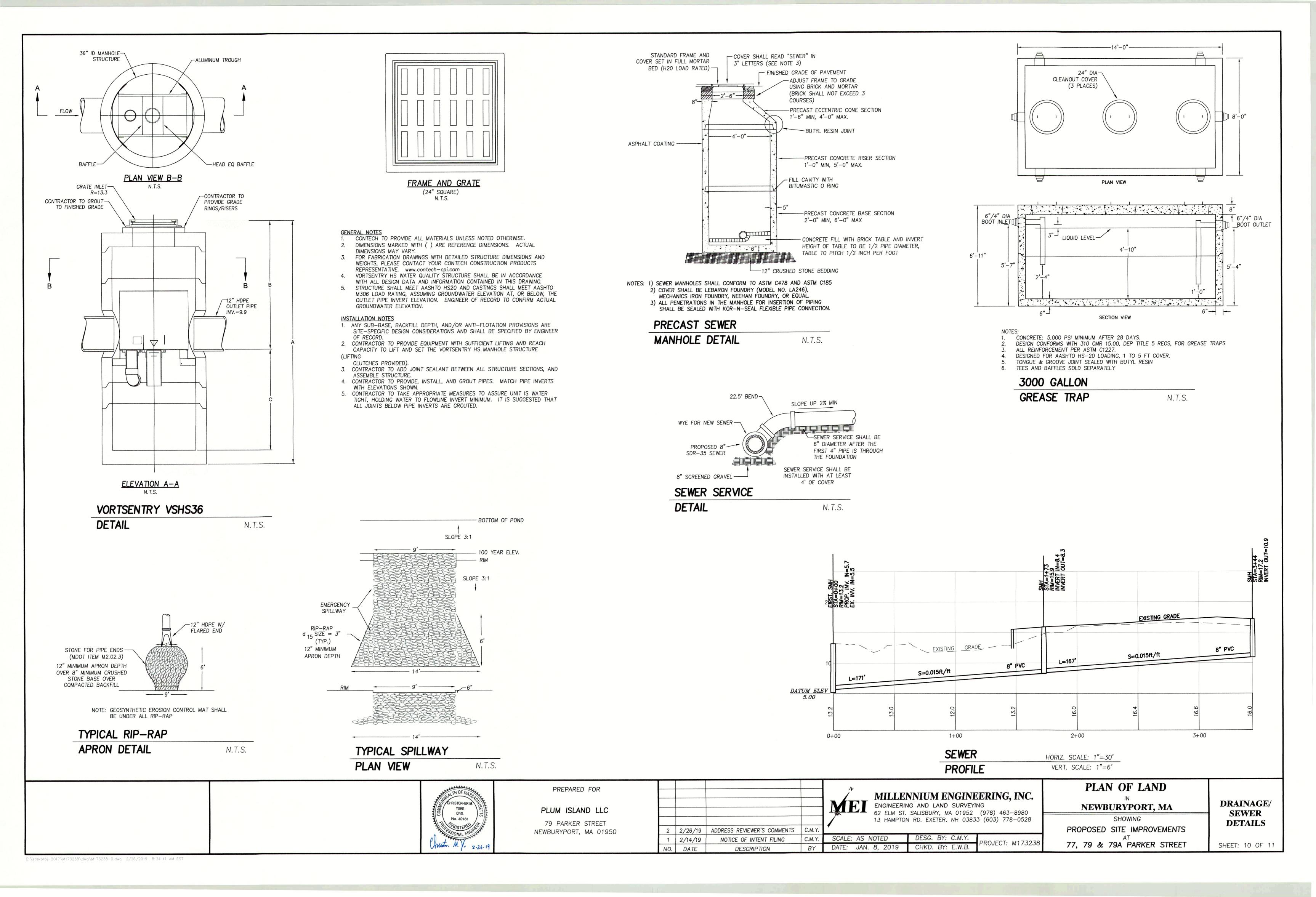
UTILITY **DETAILS** 

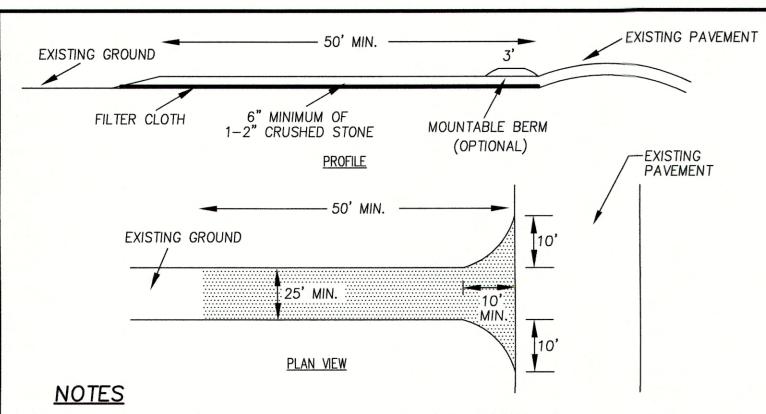
SHEET: 8 OF 11

77, 79 & 79A PARKER STREET

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- . 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.
- 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.

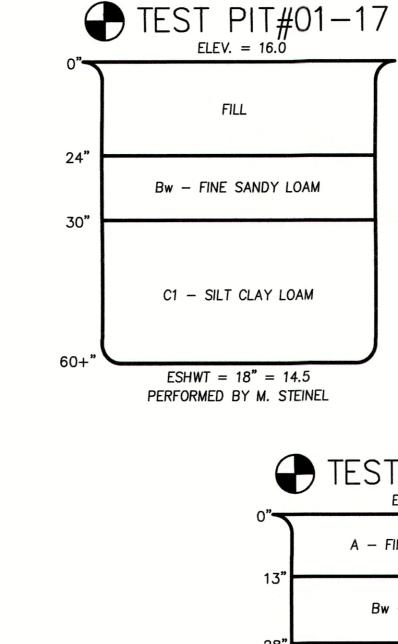
# GENERAL EROSION CONTROL NOTES

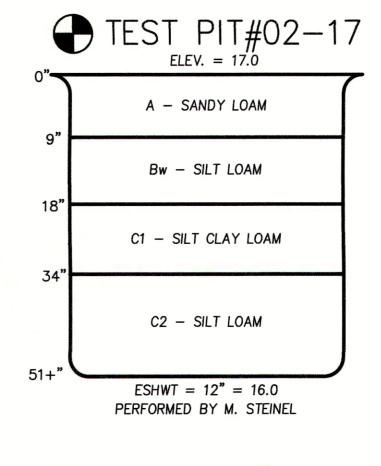
- 1. ALL SILT FENCE/HAYBALES SHALL BE INSTALLED BEFORE THE START OF CONSTRUCTION. SILT FENCE/HAYBALES SHALL BE REMOVED UPON COMPLETION OF THE PROJECT AND STABILIZATION OF ALL SOIL.
- 2. ALL FILL SHALL BE FREE OF STUMPS AND LARGE STONES.
- 3. ANY STANDING BODIES OF WATER CREATED DURING EXCAVATION SHALL BE ELIMINATED. 4. EROSION CONTROL BARRIERS SHALL BE INSPECTED WEEKLY AND AFTER EVERY 0.5" OF
- RAINFALL AND PROMPTLY REPAIRED OR REPLACED AS NECESSARY. ACCUMULATED SEDIMENT DEPOSITS UPSTREAM OF BARRIERS SHALL BE PROPERLY DISPOSED
- OF ON A REGULAR BASIS. 6. AREAS OUTSIDE THE LIMITS OF WORK (SILT FENCE/HAYBALES LOCATIONS) DISTURBED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION
- AT THE EXPENSE OF THE CONTRACTOR. 7. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING EROSION CONTROLS DURING CONSTRUCTION. HE/SHE SHALL INSPECT CONTROLS WEEKLY AND AFTER ALL STORM EVENTS. REPAIRS, IF
- REQUIRED, SHALL BE MADE IMMEDIATELY. 8. TEMPORARY GROUND COVER SHALL BE ESTABLISHED IN AREAS OF CONSTRUCTION WHERE
- REQUIRED BY THE NEWBURYPORT PLANNING BOARD. 9. ANY DISTURBED AREAS OF THE SITE NOT USED FOR ROADWAY OR UTILITY CONSTRUCTION SHALL BE STABILIZED WITH LOAM AND SEED UNTIL FURTHER DISTURBANCE IS REQUIRED FOR
- 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 EARTH REMOVAL BYLAW, UNLESS APPROVED BY CITY OFFICIALS.
- 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 UNPAVED 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 OF 2 TONS/ACRE.
- 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 SHALL FILL BE PLACED FROM NOVEMBER THROUGH JANUARY.

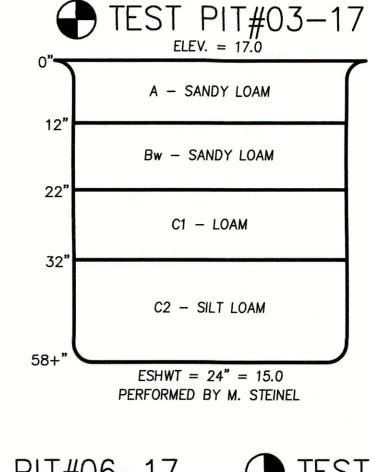
## CONSTRUCTION

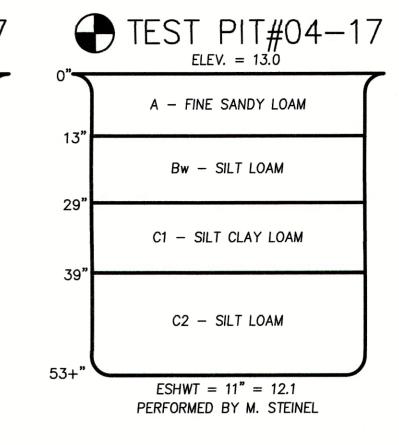
## **SEQUENCE**

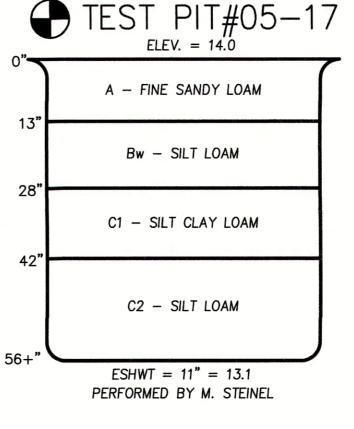
- 1. INSTALL SILT FENCE/HAYBALES AT LIMIT OF WORK & STAKE OUT STORMWATER AREAS.
- CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE AS DEPICTED.
- 3. CUT TREES. 4. CLEAR AND GRUB DEBRIS AND DISPOSE OF PROPERLY.
- 5. STRIP, SCREEN AND STOCKPILE TOPSOIL. TOPSOIL CAN BE TEMPORARILY STOCKPILED ON SITE PROVIDING THAT THE PERIMETER OF THE STOCKPILES ARE PROPERLY STAKED WITH SILT FENCE AT THE TOE OF SLOPE.
- 6. ROUGH GRADE & COMPACT CONSTRUCTED WETLANDS. 7. GRADE PAVEMENT TO TOP OF SUBGRADE ELEVATIONS. ROADWAY MUST BE
- STABILIZED IMMEDIATELY AFTER GRADING.
- 8. INSTALL UTILITIES/DRAINAGE STRUCTURES.
- 9. PLACE RIPRAP WHERE SHOWN ON PLANS. LOAM AND HYDROSEED SIDESLOPES AND ALL DISTURBED
- AREAS WITHIN 72 HOURS. 10. CONSTRUCT REMAINING UTILITIES.
- 11. SPREAD, SHAPE, AND COMPACT PAVEMENT SUBBASE AS PER TYPICAL ROADWAY SECTION TO ATTAIN FINAL DESIGN ELEVATIONS.
- 12. COMPLETE BINDER COURSE PAVING. 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). 15. REMOVE EROSION CONTROL.

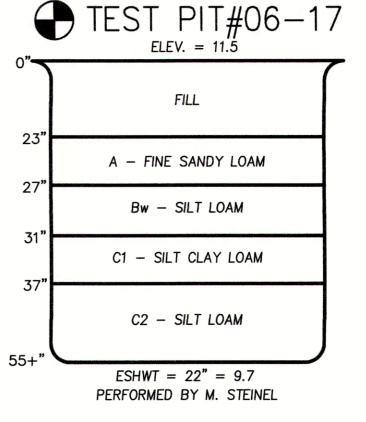


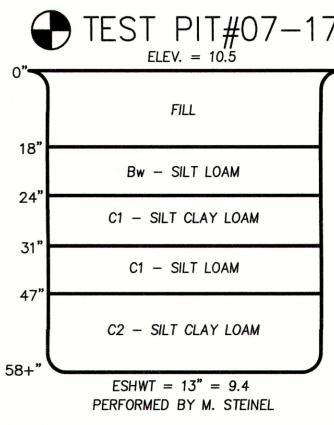


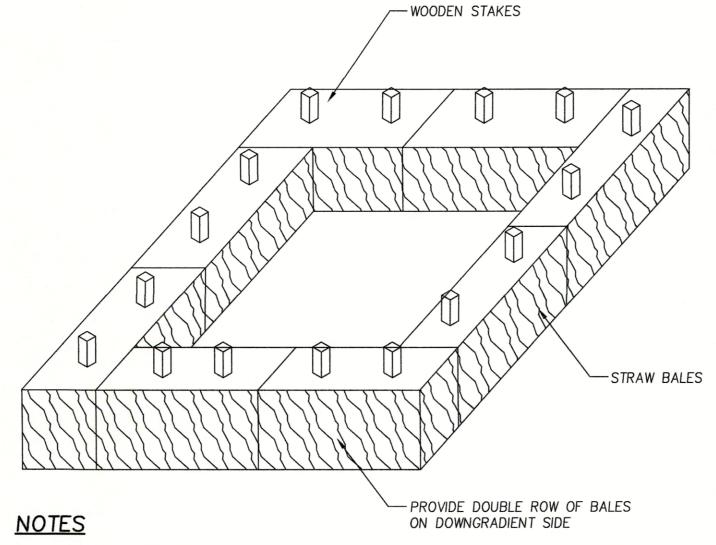








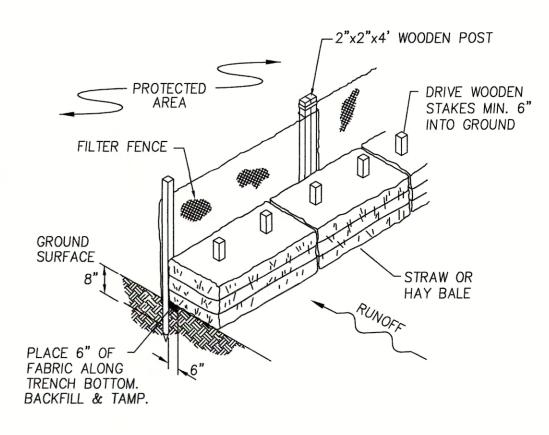




1. DURING THE ACTIVE DEWATERING PROCESS, THE STRUCTURE SHALL BE INSPECTED FREQUENTLY (E.G. ONCE PER HOUR).

2. SEDIMENT BUILDUP SHOULD BE REMOVED PERIODICALLY TO ENSURE THAT THE STRUCTURE'S ABILITY TO EFFECTIVELY FILTER SEDIMENT IS MAINTAINED.

TYPICAL DEWATERING DETAIL N.T.S.



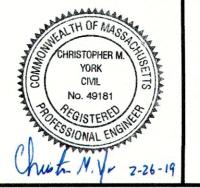
# **NOTES**

- 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.

# <u>MAINTENANCE</u>

- 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.



PLUM ISLAND LLC

PREPARED FOR

79 PARKER STREET NEWBURYPORT, MA 01950

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2	2/26/19	ADDRESS REVIEWER'S COMMENTS	C.M.Y.	
1	2/14/19	NOTICE OF INTENT FILING	C.M.Y.	
NO.	DATE	DESCRIPTION	BY	



MILLENNIUM ENGINEERING, INC. ENGINEERING AND LAND SURVEYING 62 ELM ST. SALISBURY, MA 01952 (978) 463-8980

PLAN OF LAND **NEWBURYPORT, MA** 

DRAINAGE/ **EROSION** CONTROL **DETAILS** SHEET: 11 OF 11

13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528 SHOWING PROPOSED SITE IMPROVEMENTS DESG. BY: C.M.Y. SCALE: AS NOTED PROJECT: M17323 77, 79 & 79A PARKER STREET DATE: JAN. 8, 2019 CHKD. BY: E.W.B.