MAINTENANCE FACILITY EXPANSION CHARLES RIVER COUNTRY CLUB

483 DEDHAM STREET NEWTON, MA 02459

SEPTEMBER 27, 2021

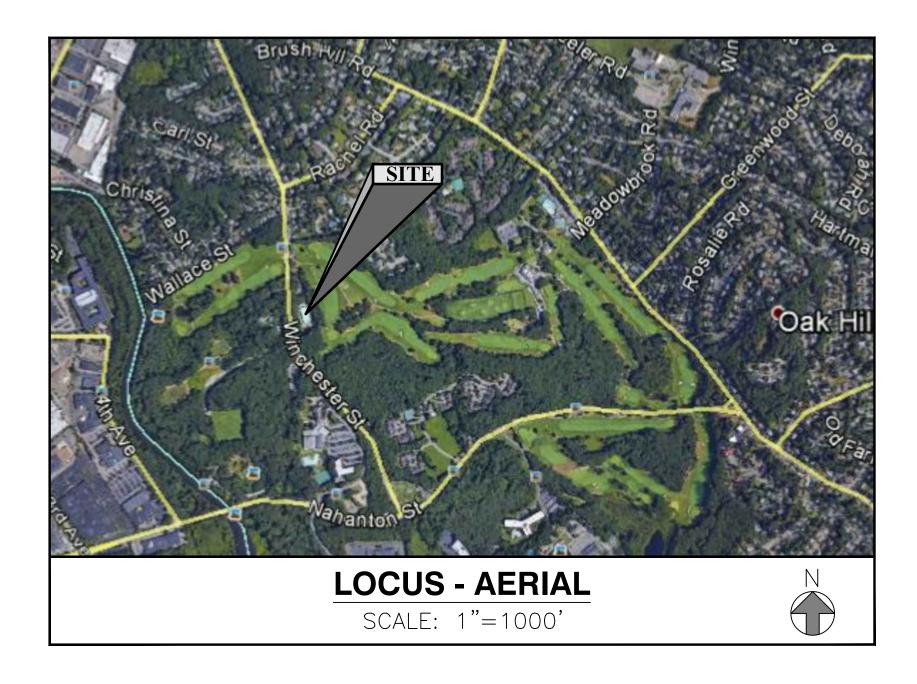
REVISION/ISSUE DATES							
1	ISSUED FOR CITY OF NEWTON PERMITTING	9/27/2021					

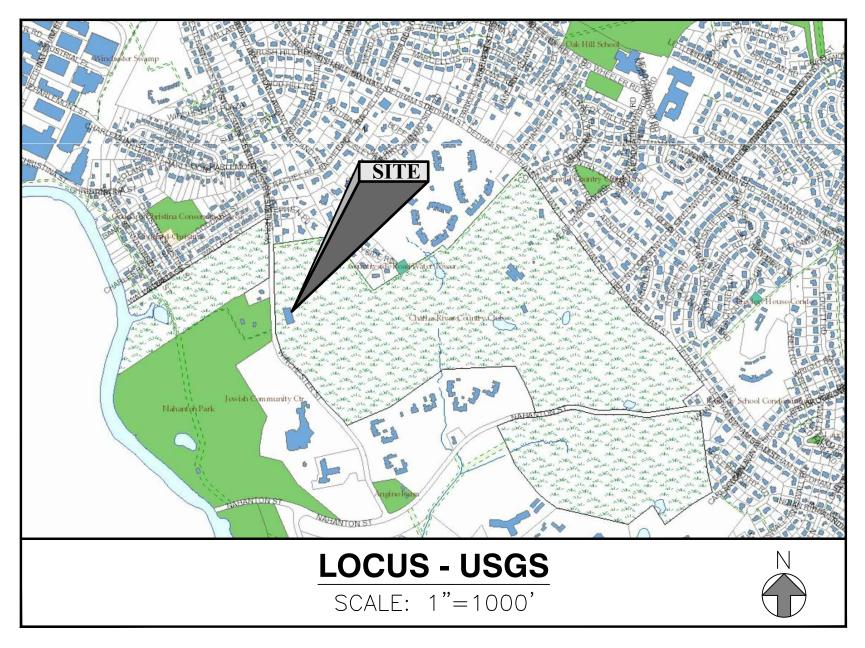
OWNER/APPLICANT

CHARLES RIVER COUNTRY CLUB 483 DEDHAM STREET NEWTON, MA 02459

ARCHITECT

DP ARCHITECTS 386 MOWRY STREET WOONSOCKET, RI 02895





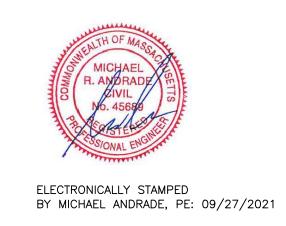
SHEET INDEX

- 1 C001 Cover Sheet
- 2 C101 Existing Conditions Plan
- 3 C102 Site Demo, Sediment & Erosion Control Plan
- 4 C103 Layout Plan
- 5 C104 Grading & Drainage Plan
- 6 C105 Site Utilities Plan
- 7 C501 Site Details 1
- 8 C502 Site Details 2
- 9 C503 Site Details 3

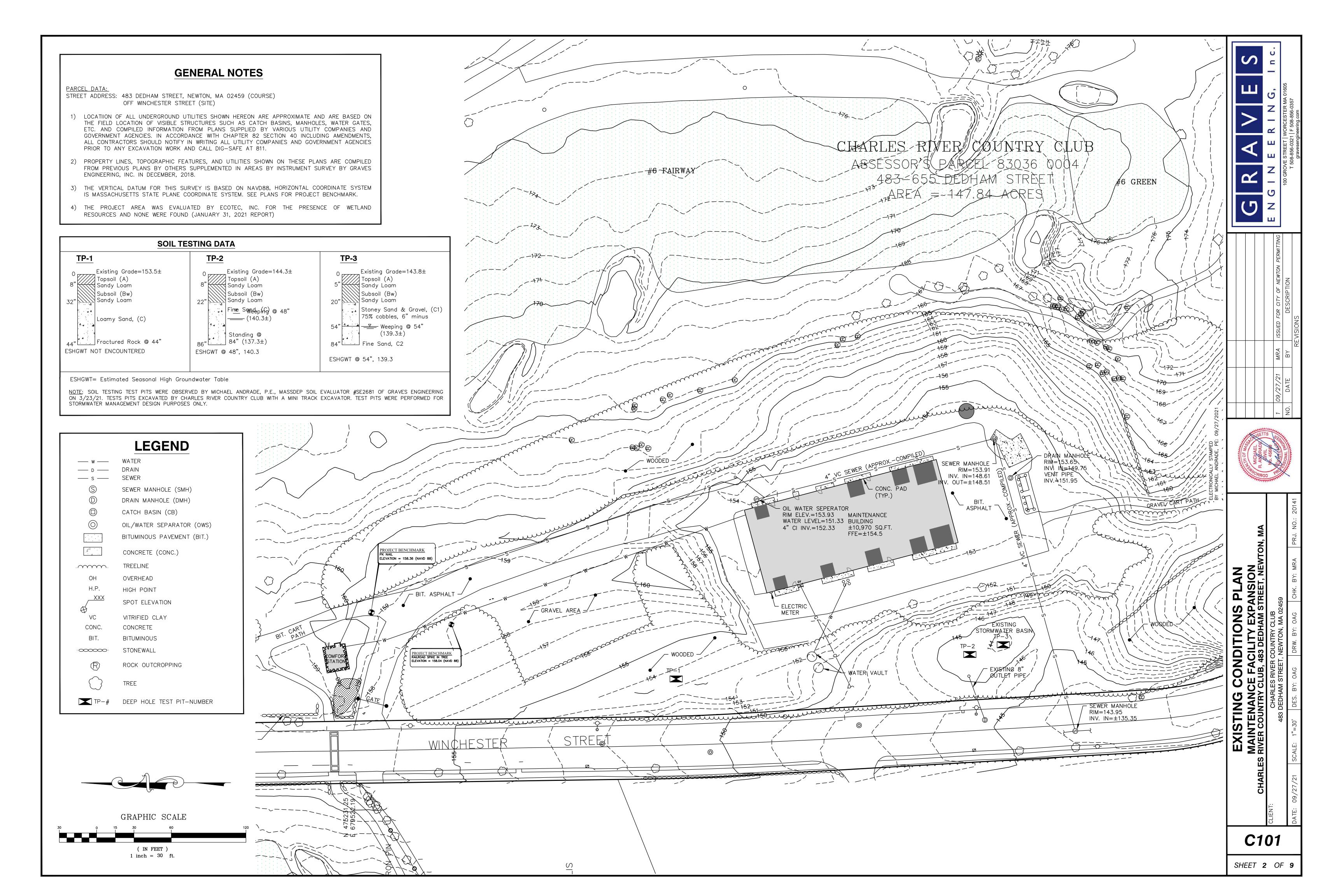
PREPARED BY:

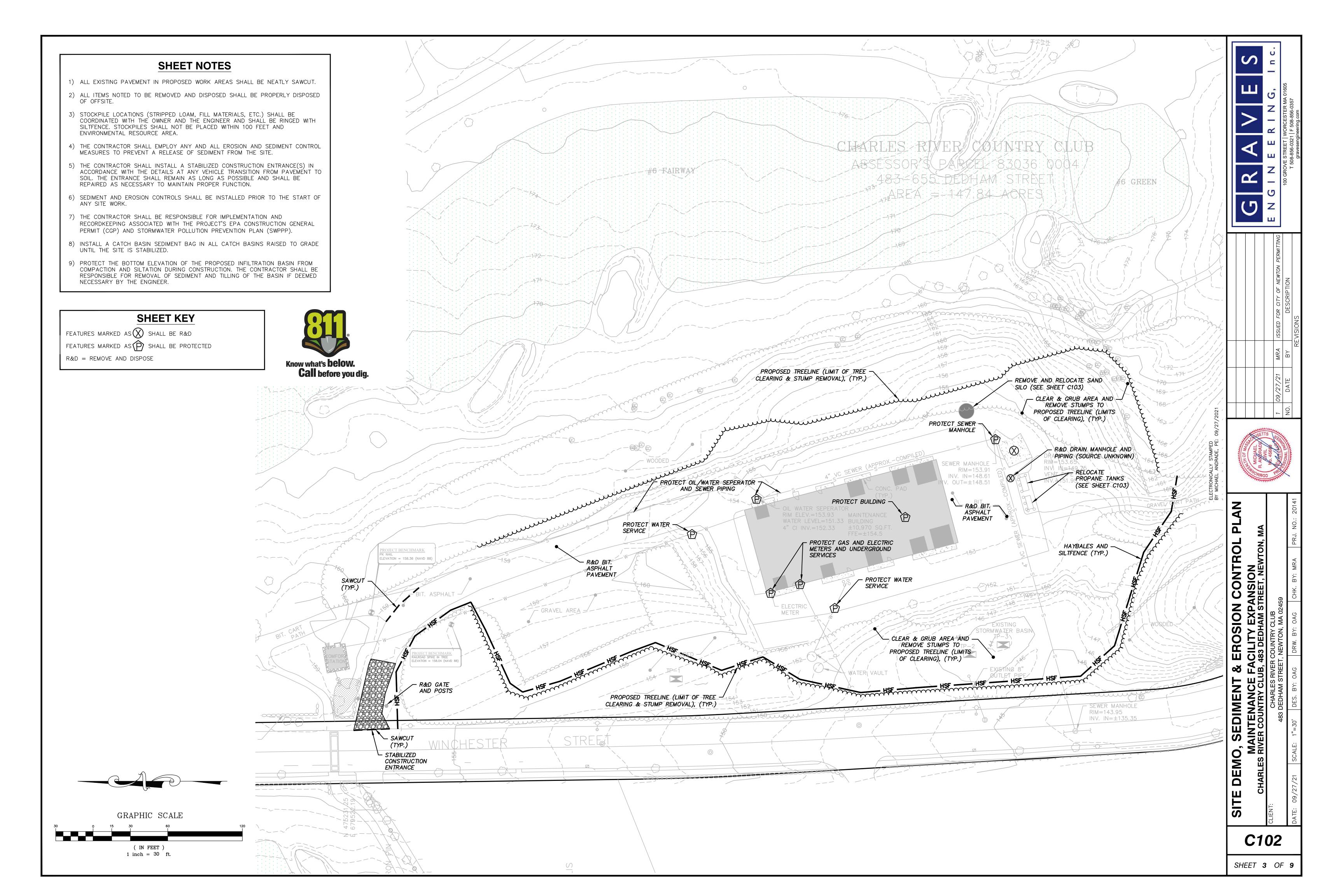


100 GROVE STREET | WORCESTER MA 01605 T 508-856-0321 | F 508-856-0357 gravesengineering.com



C001-COVER SHEET SHEET 1 OF 9





PROJECT ZONING INFORMATION

REQUIRED/EXISTING <u>CRITERIA</u> <u>PROPOSED</u> ZONING DISTRICT SR-1 SR-1 LOT AREA 147.84 ACRES NA/148.84 ACRES FRONTAGE 640 FT. NA/640 FT. FRONT SETBACK NA/95.3 FT. (MAINT. BLDG) 98.1 FT. (MAINT. ADD.) SIDE SETBACK NA/683.5 FT. (MAINT. BLDG) 658.7 FT. (MAINT. ADD.) REAR SETBACK

LOT COVERAGE NA /1.1% 1.2% BUILDING HEIGHT TBD (MATCH EXISTING)

NA/.011

FLOOR TO AREA RATIO

1) ZONING DISTRICT SOURCE: THE ABOVE INFORMATION WAS OBTAINED FROM THE CITY OF NEWTON ZONING ORDINANCE DATED DECEMBER 31, 2017 AND UPDATED SEPTEMBER 10, 2018. 2) NA INDICATES THAT THE REQUIRED CRITERIA IS UNCLEAR BASED ON THE EXISTING GOLF COURSE USE IN THE SR-1 DISTRICT.

.012

PARKING SCHEDULE

REQUIRED PARKING PER ORDINANCE ARTICLE 5.1.4.A

OFFICE = 1 SPACE PER 250 SQ.FT.

625 SQ.FT. OFFICE SPACE = 3 SPACES

WAREHOUSE/STORAGE = 1 SPACE PER 2,500 SQ.FT. PLUS 1 SPACE PER 4 EMPLOYEES

19,065 SQ.FT. WAREHOUSE/STORAGE SPACE = 8 SPACES

TOTAL REQUIRED PARKING = 11 SPACES

PROPOSED PARKING

2 HANDICAP ACCESSIBLE SPACES (BOTH VAN ACCESSIBLE)

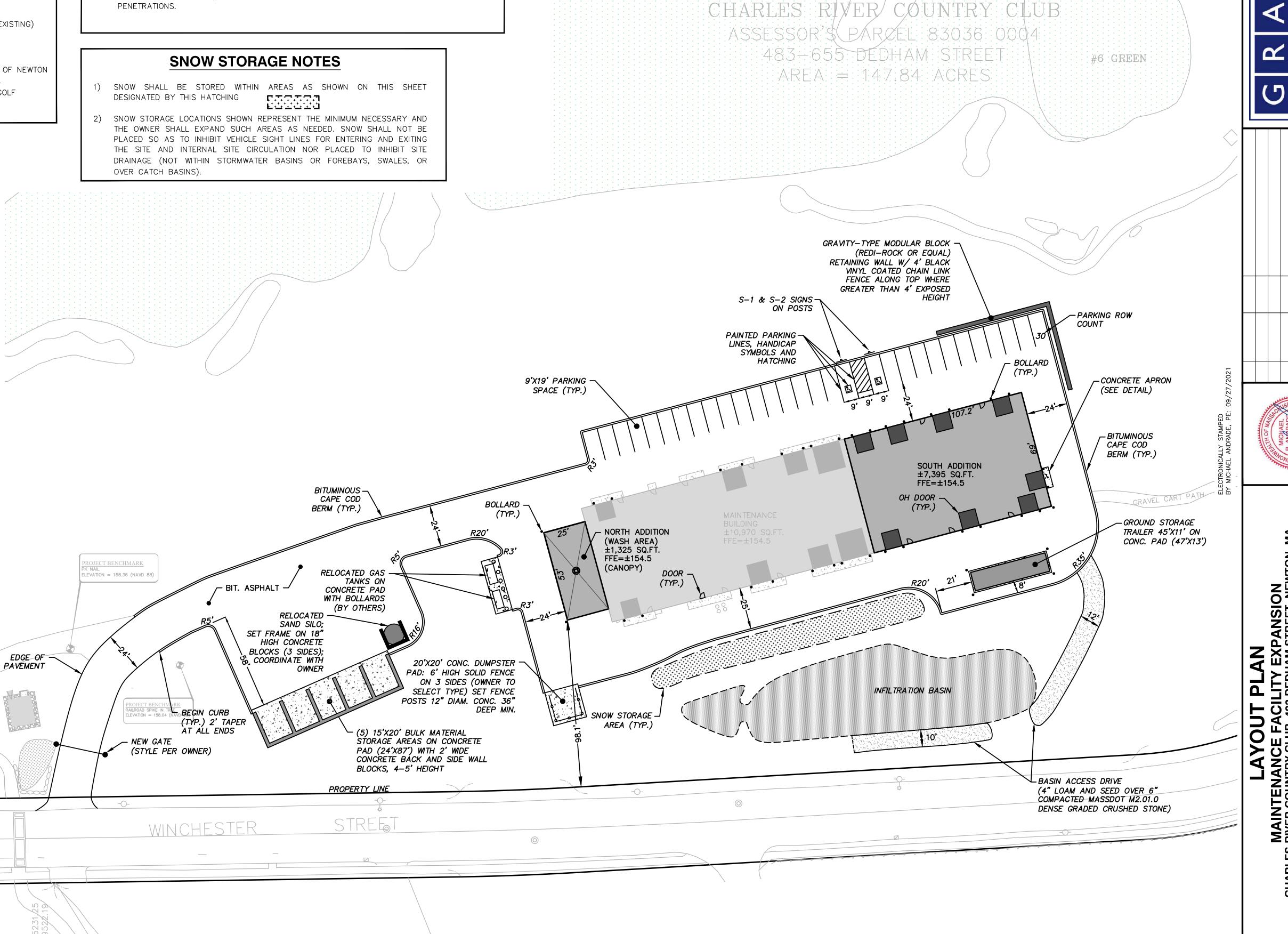
28 STANDARD SPACES (9'x19')

30 SPACES TOTAL

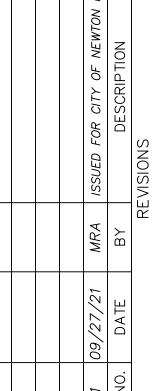
SIGNAGE KEY									
PLAN	MUTCD DESIGNATION	SIGN SIZE		SIGN LAYOUT	QUANTITY				
SYMBOL		WIDTH	HEIGHT	5,5,1 2,1,55	20,				
S-1	R7-8	12"	18"	RESERVED PARKING	2				
S-2	R7-8a	12"	6"	VAN ACCESSIBLE	2				

SHEET NOTES

- 1) ALL DIMENSIONS SHOWN ARE MEASURED FROM TOE OF CURB OR CENTER OF PAINTED LINE.
- 2) PAVEMENT MARKINGS SHALL BE PAINTED WITH WHITE TRAFFIC PAINT CONFORMING TO SECTION M7.01.08 OF THE MASSDOT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, LATEST EDITION. LINE WIDTH SHALL BE 4 INCHES.
- 3) THE CONTRACTOR SHALL COORDINATE WITH PLANS BY OTHERS (ARCHITECTURAL, STRUCTURAL, MEP, ETC.) WITH REGARD TO THE BUILDING CONSTRUCTION AND UTILITY









PANSION STREET, NEV

LA ITENAN COUNTRY

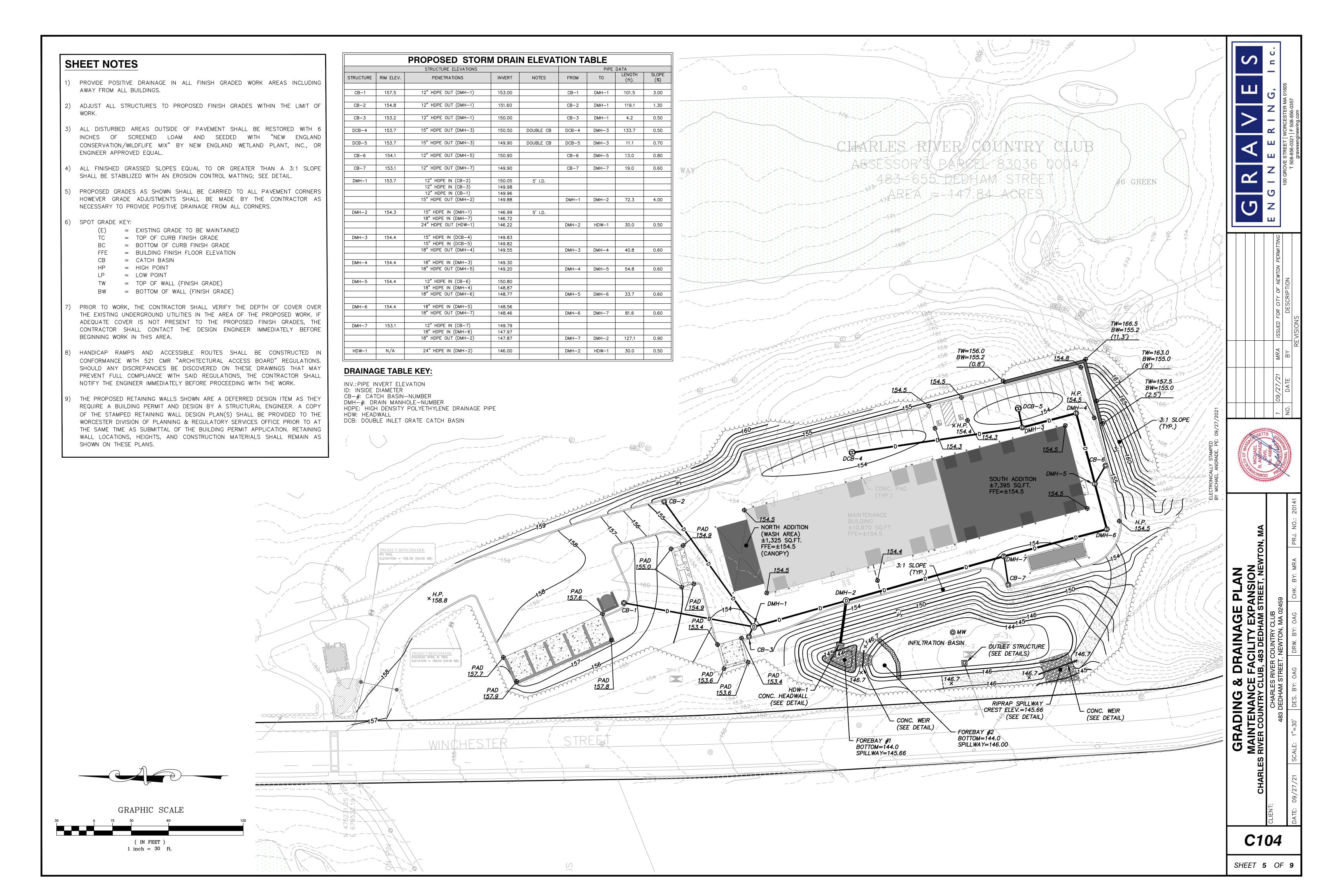
C103

SHEET 4 OF 9

1 inch = 30 ft.

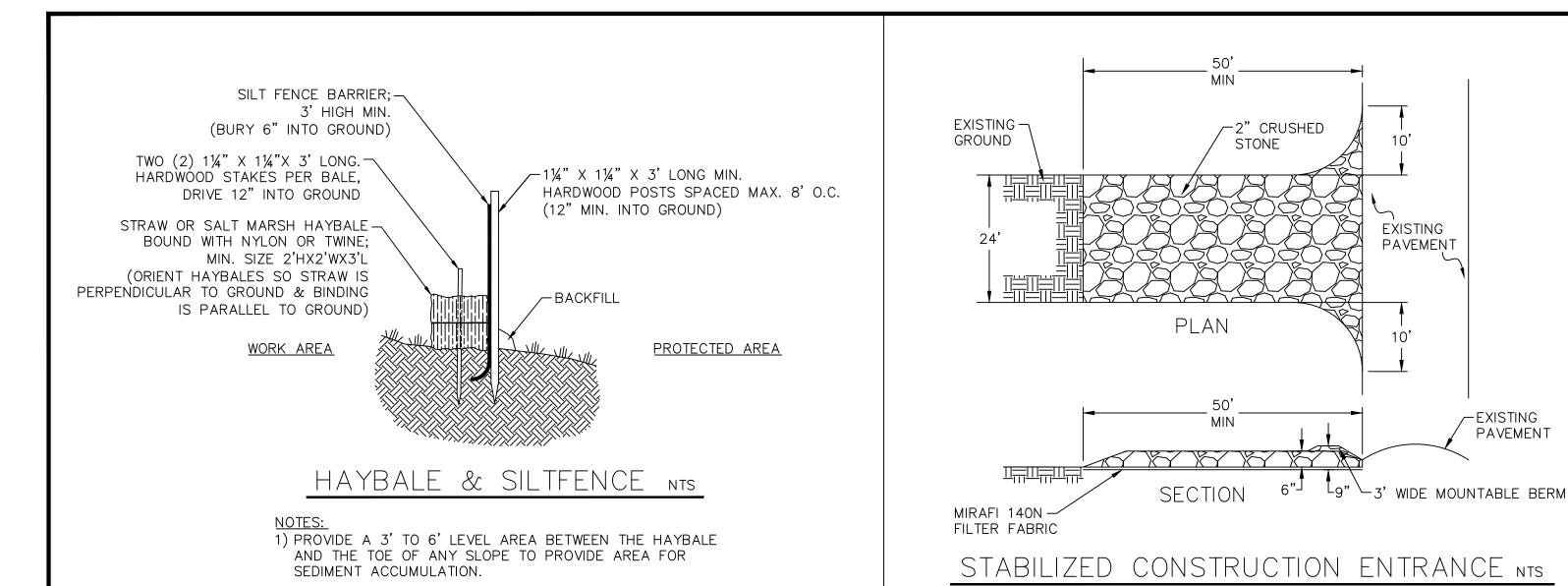
(IN FEET)

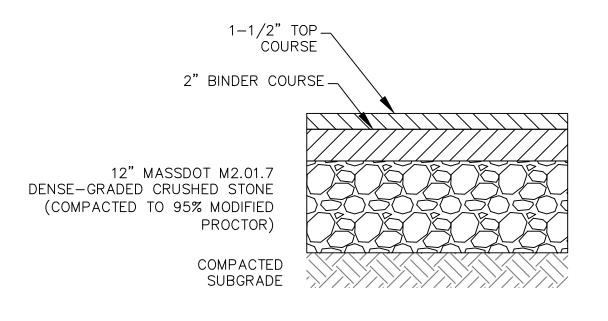
GRAPHIC SCALE



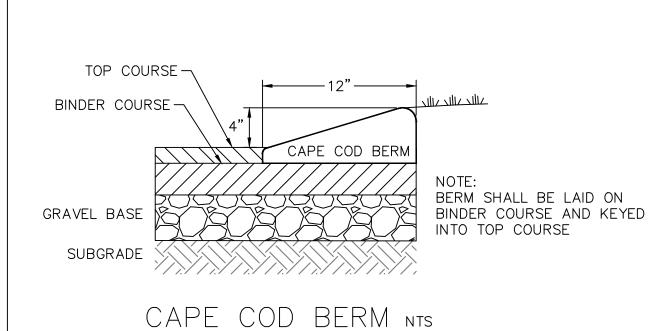
SHEET NOTES 1) UTILITY MATERIALS, CONSTRUCTION, & TESTING SHALL COMPLY WITH THE CITY OF NEWTON DEPARTMENT OF PUBLIC WORKS AND PARKS STANDARD SPECIFICATIONS, LATEST EDITION. 2) PIPE LENGTH AND SLOPE SHOWN IN THE STORM DRAIN AND SEWER ELEVATION TABLE IS CALCULATED FROM INSIDE FACE TO INSIDE FACE OF STRUCTURE. 3) BEFORE PROCEEDING WITH THE WORK, THE CONTRACTOR SHALL VERIFY THE ELEVATION OF THE EXISTING SEWER AT THE PROPOSED POINT OF CONNECTION (SMH-1) AND CONTACT THE ENGINEER FOR COORDINATION. BASED ON THE ELEVATION, REVISIONS TO THE PROPOSED SEWER SYSTEM AND OR DRAIN CROSSING MAY BE REQUIRED. 4) PROVIDE INTERIOR DROP BOWLS AND PIPING AT SMH-1 INLETS FROM OWS-1 AND OWS-2 (SEE DETAIL) 6 GREEN PROPOSED SEWER ELEVATION TABLE STRUCTURE ELEVATIONS PIPE SLOPE STRUCTURE | RIM ELEV. PENETRATIONS INVERT NOTES FROM TO 4' CI OUT (FLOOR DRAIN) 150.30 S-INV 'A' -OWS-2 8.6 4" SDR35 PVC (EX. SEWER) ±144.56 BLDG. SMH-1 9.8 S-INV 'B' 4" CI IN (BLDG.) 154.20 150.12 4" CI OUT (INV. 'AA') 149.79 4" CI OUT (INV. 'BB') 146.79 OWS-2 SMH-1 9.5 SMH-1 154.20 4" SDR35 PVC IN (EX. SEWER) 144.36 DROP MANHOLE 4" CI IN (OWS-1) 149.60 DROP PIPING 4" VC OUT (EX. SEWER) ±144.01 **SEWER TABLE KEY:** S-INV 'A': SEWER INVERT ELEVATION-DESIGNATION (SEE TABLE) OWS-#: OIL/WATER SEPARATOR SDR35: POLYVINYL CHLORIDE (PVC) SEWER PIPE, SDR35 CI: CAST IRON PIPE (SEE PLUMBING PLANS/SPECS. FOR MATERIAL CLASS) M.E.: MATCH EXISTING INSTALL NEW SEWER FRAME AND COVER AND ADJUST TO NEW FINISH GRADE EXISTING SEWER TO REMAIN (LOCATION OF DOMESTIC SEWER CONNECTION INSTALL NEW SEWER FRAME — AND COVER AND ADJUST TO NEW FINISH GRADE UNKNOWN) UNDERGROUND ELECTRICAL CONDUIT TRENCH FROM BUILDING TO GAS TANKS CONTRACTOR TO EXCAVATE AND VERIFY ELEVATION OF EXISTING SEWER PRIOR TO INSTALLATION OF CATCH - S—INV 'B' (EX. SEWER) BASIN. PROVIDE ELEVATION TO DESIGN ENGINEER FOR EXISTING SEWER THROUGH BUILDING TO REMAIN AND BE RE-LAID WITH CAST S-INV 'A' (FLOOR DRA COORDINATION UNDERGROUND ELECTRICAL CONDUIT TRENCH FROM BUILDING TO STORAGE TRAILER INTERON PIPE PER CODE (BY OTHERS) SITE CONTRACTOR OPROVIDE TRANSITION COUPLINGS AS NECESSARY OUTSIDE THE BUILDING CARBTROL WASH WATER RECYCLE SUMP (BY OTHERS) LEVATION = 158.36 (NAVD 88) PROJECT BENCHMARK RAILROAD SPIKE IN TREE ELEVATION = 158.04 (NAVD 88) Jummmmmmmmmmmmmmmm, RIM=143.95 INV. $IN=\pm 135.3$ GRAPHIC SCALE C105 (IN FEET) 1 inch = 30 ft.

SHEET 6 OF 9





- 1) TAMP ALL ASPHALT EDGES THAT ABUT LAWN, LANDSCAPED OR OTHER SOFT SURFACE.
- 2) BINDER COURSE: MASSDOT M3.11.03, TABLE A, "HMA INTERMEDIATE COURSE DENSE BINDER" OR SUPERPAVE INTERMEDIATE COURSE - 19.0MM (MIXTURE DESIGNATION SIC - 19.0).
- 3) TOP COURSE: MASSDOT M3.11.03, TABLE A, "SURFACE COURSE STANDARD TOP" OR SUPERPAVE SURFACE COURSE - 12.5MM (MIXTURE DESIGNATION SSC - 12.5).

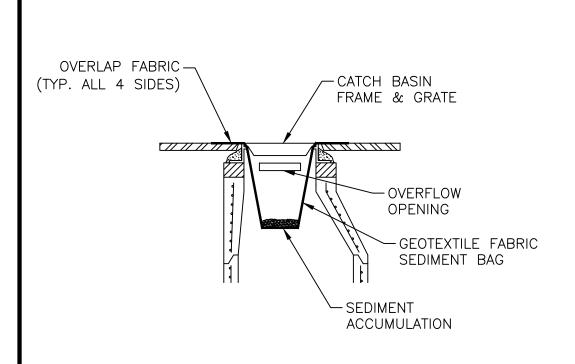


-9" (D50) RIPRAP 18" DEPTH MIN. (FILL

TO FORM A COMPACT MASS)

ANGULAR SPACES WITH SMALLER STONES



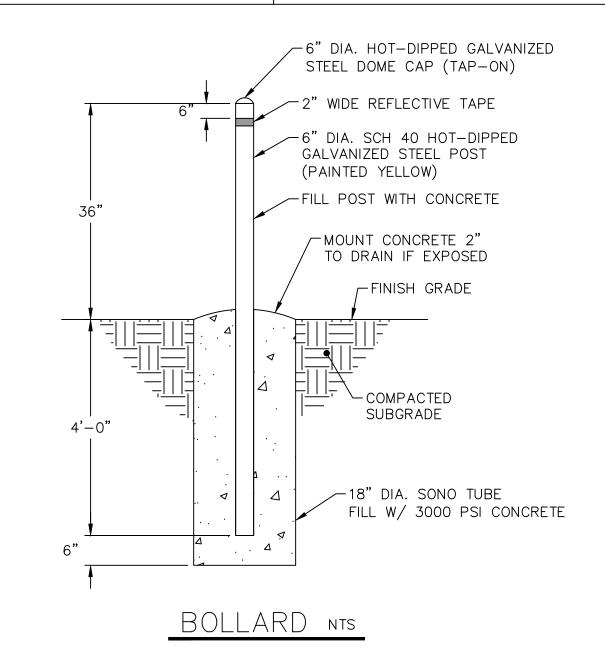


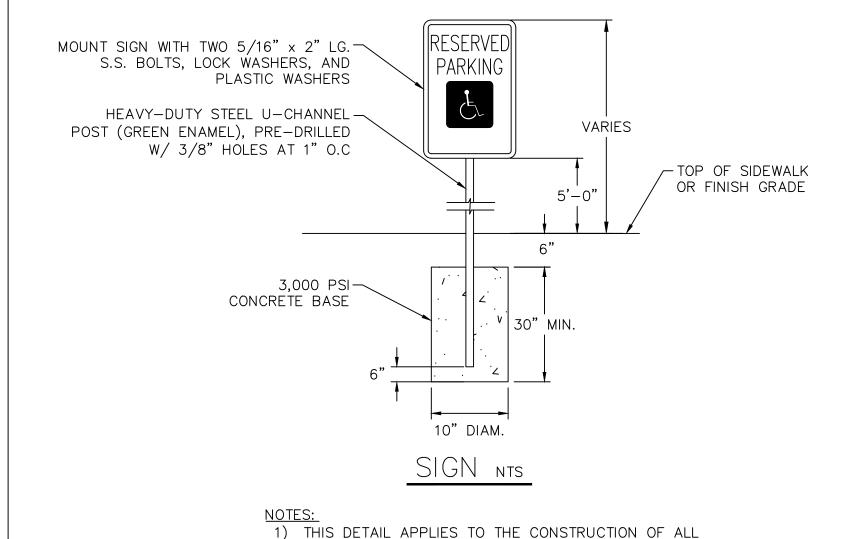
CATCH BASIN SEDIMENT BAG NTS

1) SEDIMENT BAG SHALL BE SILTSACK BY ACF

ENVIRONMENTAL, OR APPROVED EQUAL.

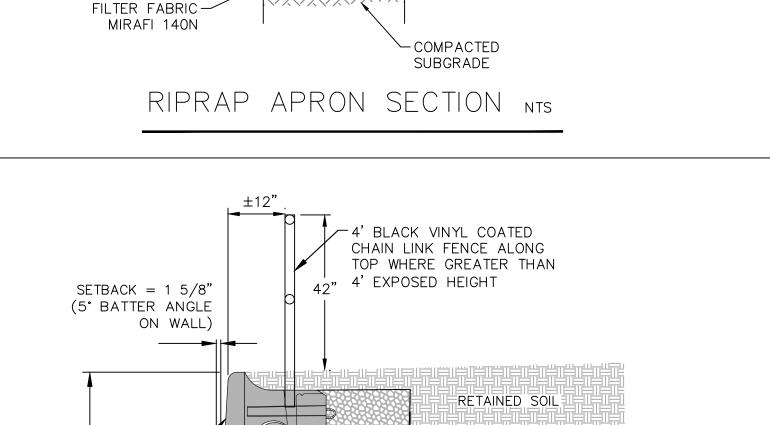
- 2) OIL ABSORPTION MEDIUM MAY ALSO BE PLACED IN BAG (OPTIONAL).
- 3) INSTALL AND MAINTAIN PER MANUFACTURER'S INSTRUCTIONS.

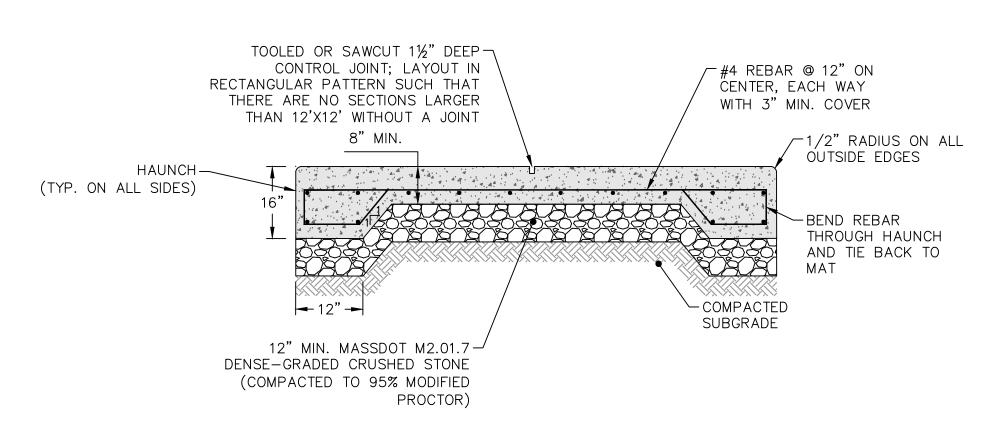




PROPOSED SIGNS; (SIGN TYPE AND DIMENSIONS MAY VARY FROM THOSE SHOWN). HANDICAP VAN ACCESSIBLE

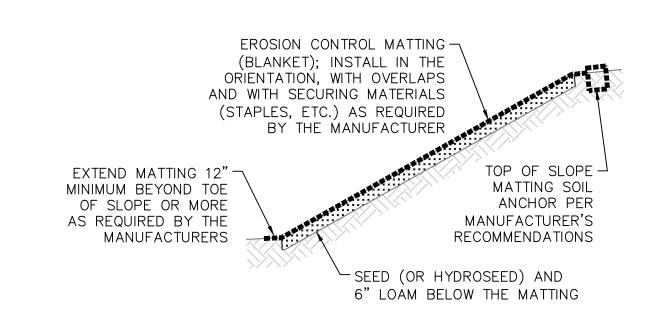
PLACARD SHALL BE MOUNTED DIRECTLY BELOW PRIMARY





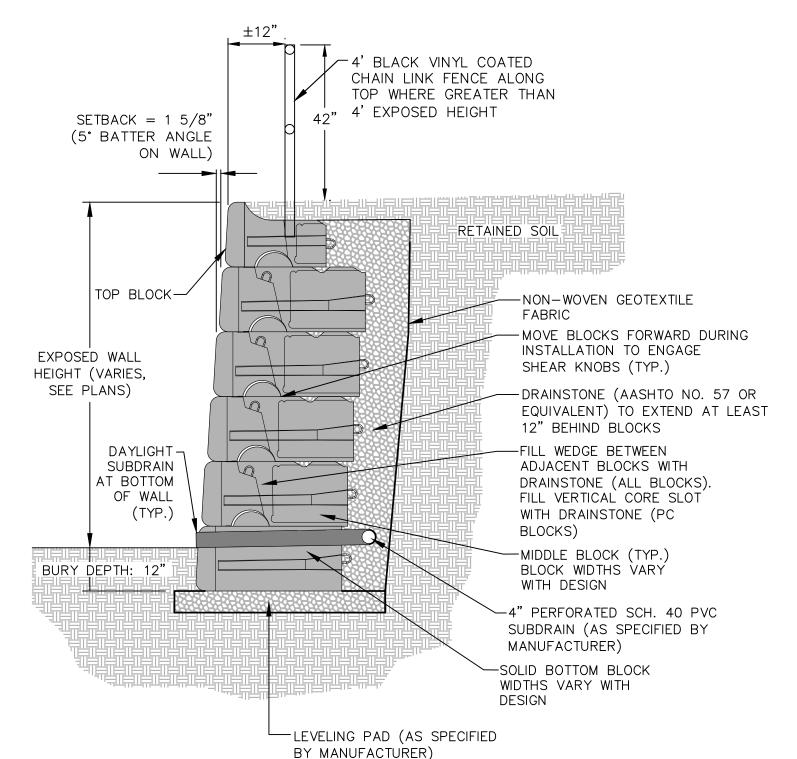
CONCRETE PAD-HEAVY DUTY NTS

- 1) THIS DETAIL APPLIES TO THE PROPOSED DUMPSTER PAD, STORAGE TRAILER PAD, BULK MATERIAL STORAGE PAD, AND CONCRETE APRON AT OVERHEAD DOOR.
- 2) CONCRETE MIX DESIGN SHALL BE FOR EXTERIOR USE; AIR-ENTRAINED, 4,000 PSI MIN. (28-DAY), 3/4" AGGREGATE.
- 3) OMIT THE HAUNCH WHEN ABUTTING ANOTHER HARD SURFACE SUCH AS EXISTING CONCRETE (BITUMINOUS IS NOT A HARD SURFACE).
- 4) WHEN THE PAD ABUTS A STRUCTURE OR EXISTING HARD SURFACE (CONCRETE, ETC,), INSTALL AN EXPANSION JOINT ACROSS THE ENTIRETY OF THE ABUTTING FACE WITH PREFORMED FIBER JOINT FILLER AND FILL WITH 1" DEEP OF POLYURETHANE JOINT SEALANT.
- 5) PAD SHALL HAVE A MEDIUM BROOM FINISH. THERE SHALL BE NO SMOOTHED TOOL JOINTS; BROOM FINISH SHALL EXTEND TO THE EDGES OF THE PAD AND ACROSS ANY JOINTS.
- 6) SLOPE (PITCH) PAD TO DRAIN 1.0% MIN. TO 2.0% MAX. (STORAGE TRAILER PAD SHALL BE LEVEL).



EROSION CONTROL BLANKET SLOPE STABILIZATION

- 1) EROSION CONTROL MATTING (BLANKETS) SHALL BE INSTALLED ON ALL FINISHED SLOPES SHOWN EQUAL TO OR EXCEEDING A 3:1 SLOPE (33.5%).
- 2) INSTALLATION SHALL STRICTLY FOLLOW THE MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS.
- 3) UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS FOR A PARTICULAR LOCATION AND APPLICATION, ACCEPTABLE EROSION CONTROL BLANKETS FOR GENERAL SLOPE STABILIZATION ARE: SC150 BY NORTH AMERICAN GREEN, CURLEX II BY AMERICAN EXCELSIOR COMPANY, OR LANDLOK C2 BY PROPEX (OR ENGINEER APPROVED EQUAL).



TYPICAL GRAVITY-TYPE PRECAST CONCRETE MODULAR BLOCK RETAINING WALL SECTION NTS

1) BLOCK TEXTURE (FINISH) SHALL BE SIMILAR TO "LIMESTONE" BY REDI-ROCK INTERNATIONAL, LLC. AND BASED ON CONTRACTOR-SELECTED WALL MANUFACTURER; SEE SPECS. FOR SUBMITTAL REQUIREMENTS.

2) BLOCK COLOR SHALL BE GRAY.

3) CONTRACTOR IS RESPONSIBLE FOR WALL MANUFACTURER'S COST OF PREPARING STRUCTURAL ENGINEERING DRAWINGS.

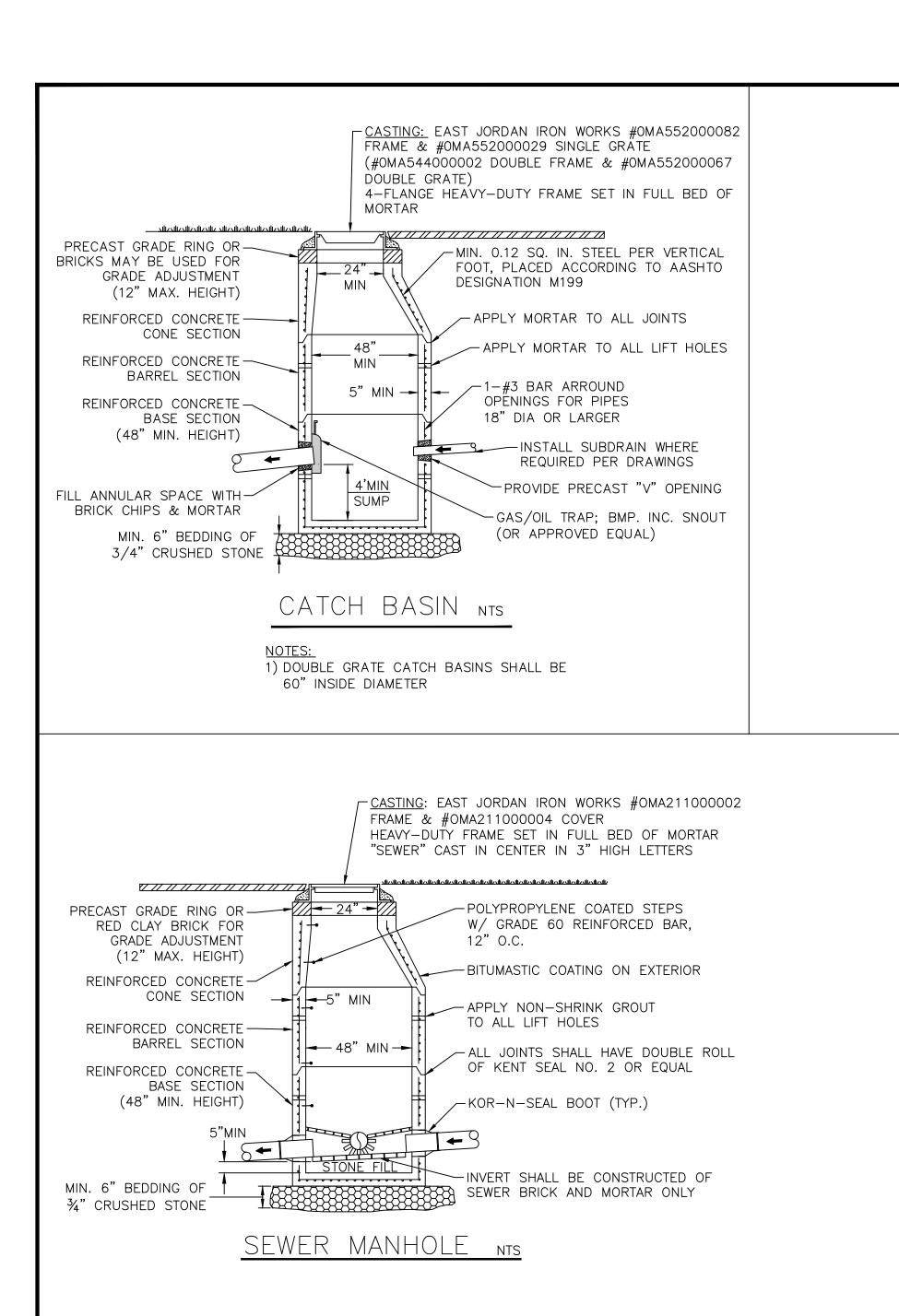
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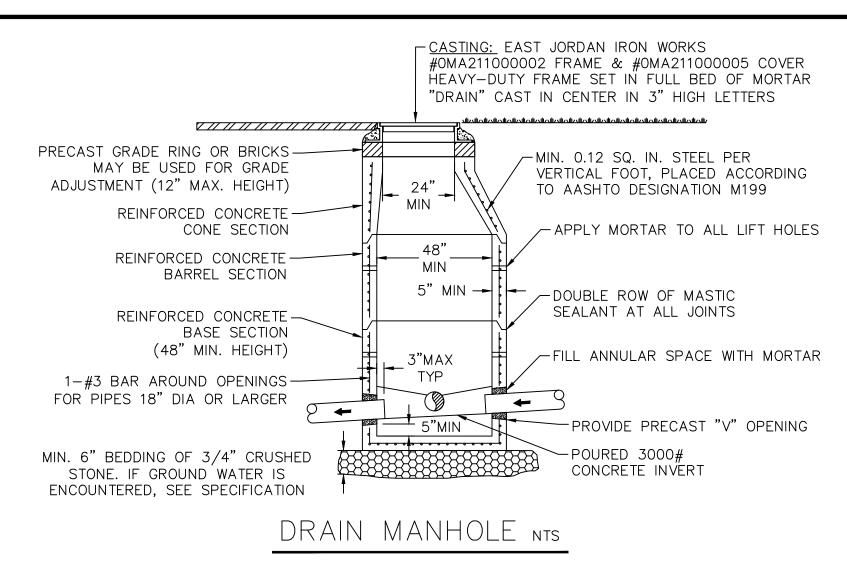
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DETAIL
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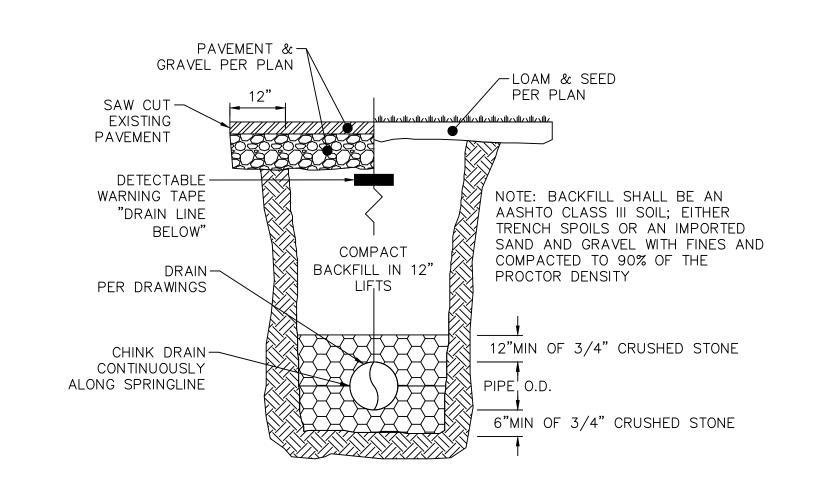
SHEET 7 OF 9





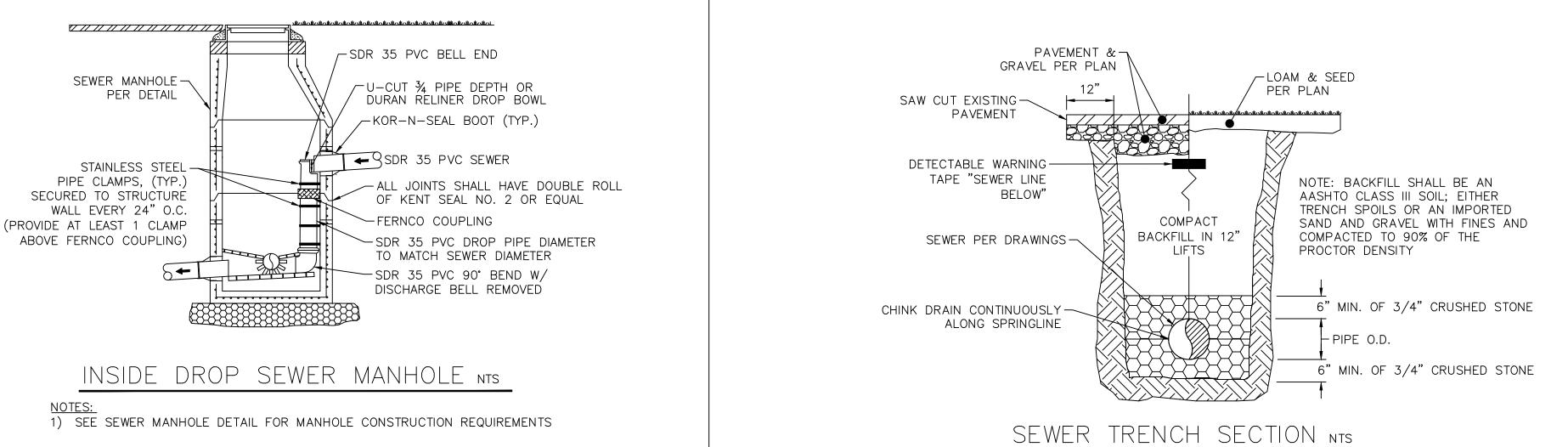
1) THE PLANS CALL FOR SOME 5' INSIDE

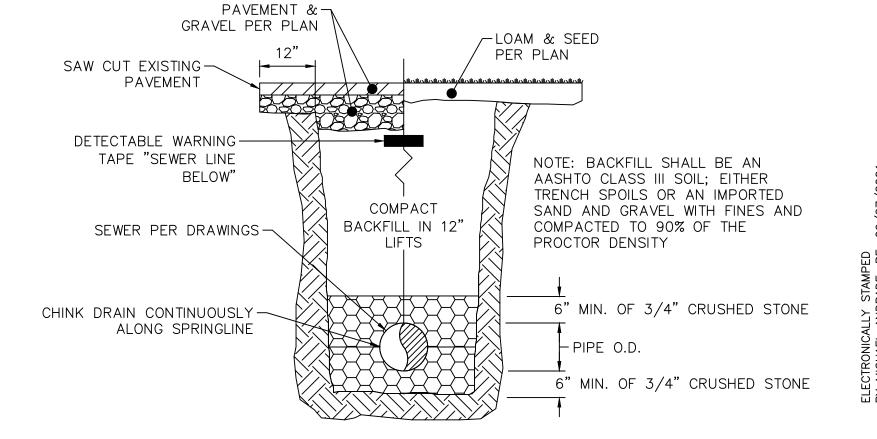
DIAMETER MANHOLES; SEE SHT C104

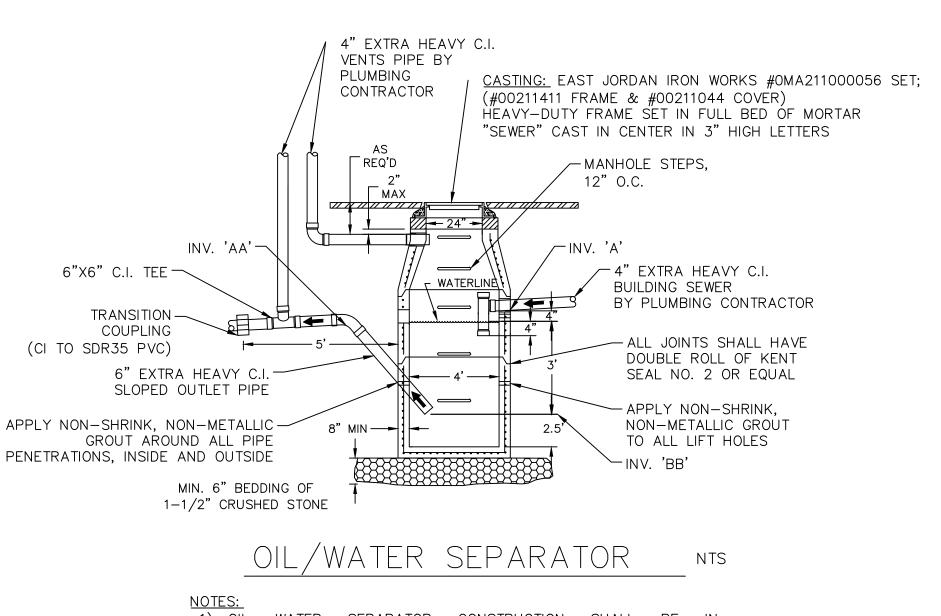


HDPE/PVC DRAIN TRENCH SECTION NTS

1) BACKFILL OF HDPE PIPE SHALL CONFORM TO ASTM D2321 AND/OR MANUFACTURER'S SPECIFICATIONS







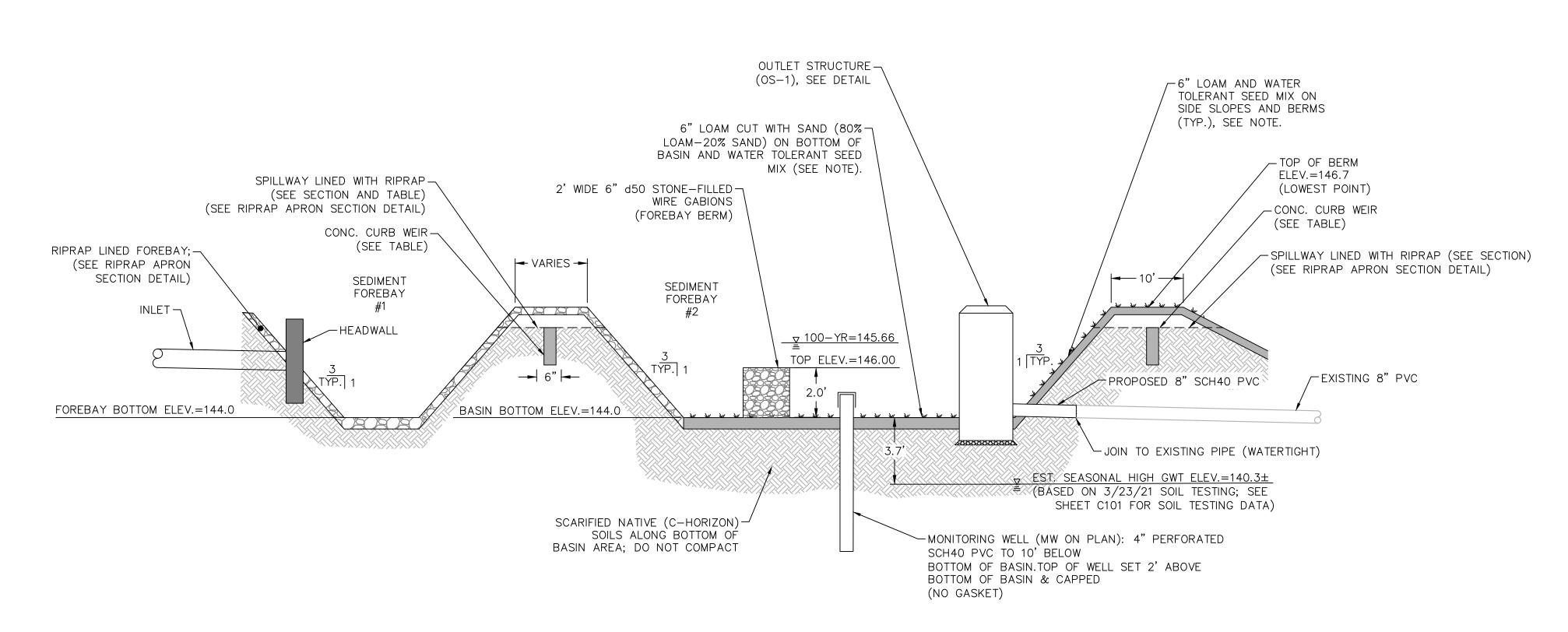
1) OIL WATER SEPARATOR CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT MASSACHUSETTS PLUMBING CODE; IN THE EVENT OF DISCREPANCY BETWEEN THE CODE AND THIS DRAWING, THE CODE SHALL SUPERCEDE.

2) ALL PIPING INCLUDING VENTS FROM BUILDING TO TRANSITION COUPLING SHALL BE CAST IRON INSTALLED BY PLUMBING CONTRACTOR.

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SHEET 8 OF 9

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SPILLWAY SECTION NTS

CONC. CURB WEIR:-(6" WIDTH x 20" DEPTH x C

(SEE TABLE BELOW))

TOP OF BERM=SEE TABLE

PROPOSED 6" THICK 3/4"

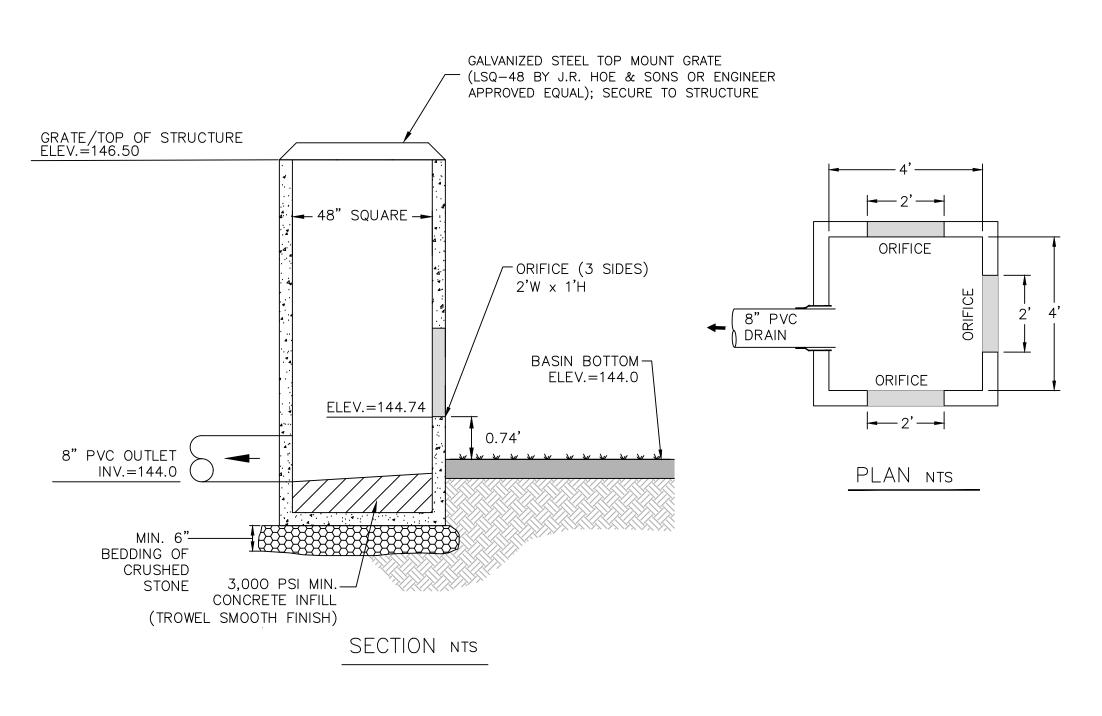
CRUSHED STONE BASE

WEIR CREST ELEV.=SEE TABLE

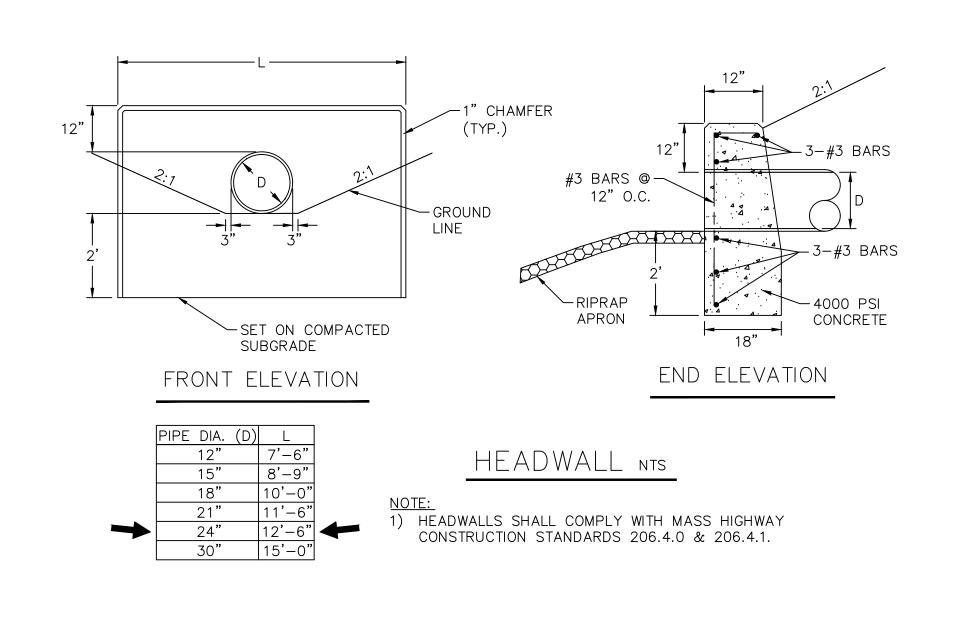
SPILLWAY TABLE									
	А	В	С	WEIR CREST ELEVATION	TOP OF BERM ELEVATION				
FOREBAY #1	6'	12'	16'	145.66	146.7				
BASIN	18'	24'	28'	145.66	146.7				

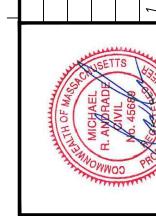
STORMWATER INFILTRATION BASIN NTS

1) SEED MIX TO BE USED IN THE BASIN (BOTTOM & SIDES) SHALL BE "NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DETENTION BASINS AND WET SITES" BY NEW ENGLAND WETLAND PLANTS, INC. OR ENGINEER APPROVED EQUAL.











C503

SHEET 9 OF 9