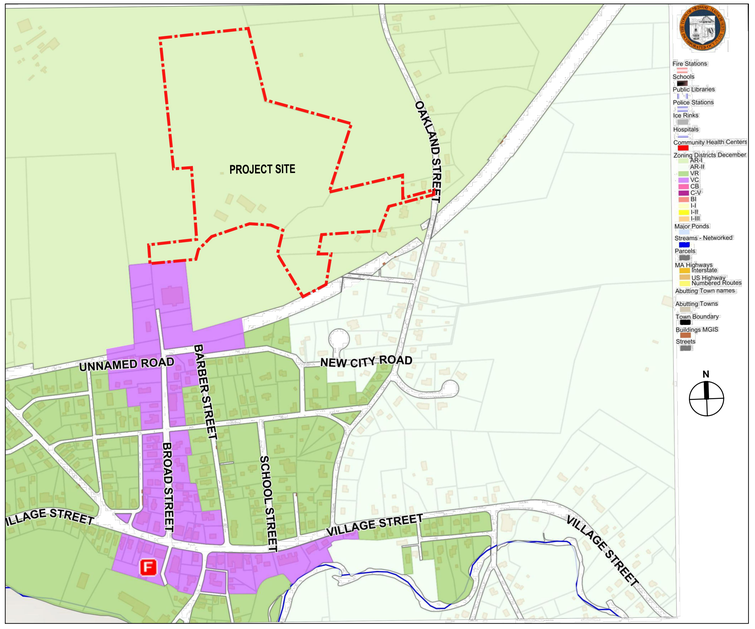
NOTICE OF INTENT SITE PLANS - NEW DEPARTMENT OF PUBLIC SERVICES BUILDING

MEDWAY NEW DEPARTMENT OF
PUBLIC SERVICES FACILITY
PERSPECTIVE DRAWING



MEDWAY GIS MAP
SCALE: 1"=500'

USGS MAP
SCALE: 1"=2,000'

LIST OF DRAWINGS:

P:\2018\18043\BIM\clcs\C-001 COVER SHEET-NOI.dwg 12/27/2018 8:52:39 AM

TOWN OF MEDWAY

NEW DPW FACILITY

OWNER:
TOWN OF MEDWAY
155 VILLAGE STREET
MEDWAY, MA 02053

ARCHITECT:
HELENE • KARL
Architects, Inc.
61 Skyfields Drive, Groton, Massachusetts 01450

CIVIL ENGINEER:
SYMMES, MAINI & McKEE ASSOCIATES
1000 MASSACHUSETTS AVENUE
CAMBRIDGE, MA 02138

STRUCTURAL ENGINEER:
SYMMES, MAINI & McKEE ASSOCIATES
1000 MASSACHUSETTS AVENUE
CAMBRIDGE, MA 02138

MECHANICAL ENGINEER:
SEAMAN ENGINEERING CORP.
22 WEST STREET, UNIT C
MILLBURY, MA 01527

ELECTRICAL ENGINEER:
JOHN J. MURPHY, JR. ELECTRICAL
CONSTRUCTION AND ENGINEERING, INC.
379 LIBERTY STREET
ROCKLAND, MA 02370

STAMP

REV	DATE	DESCRIPTION
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	11/08/18	ISSUED FOR PRE-APPLICATION MEETING W/PLANNING BOARD

DATE	
SCALE	AS NOTED
DRAWN BY	ACO
CHECKED BY	PSG
PROJECT NO.	18043.00

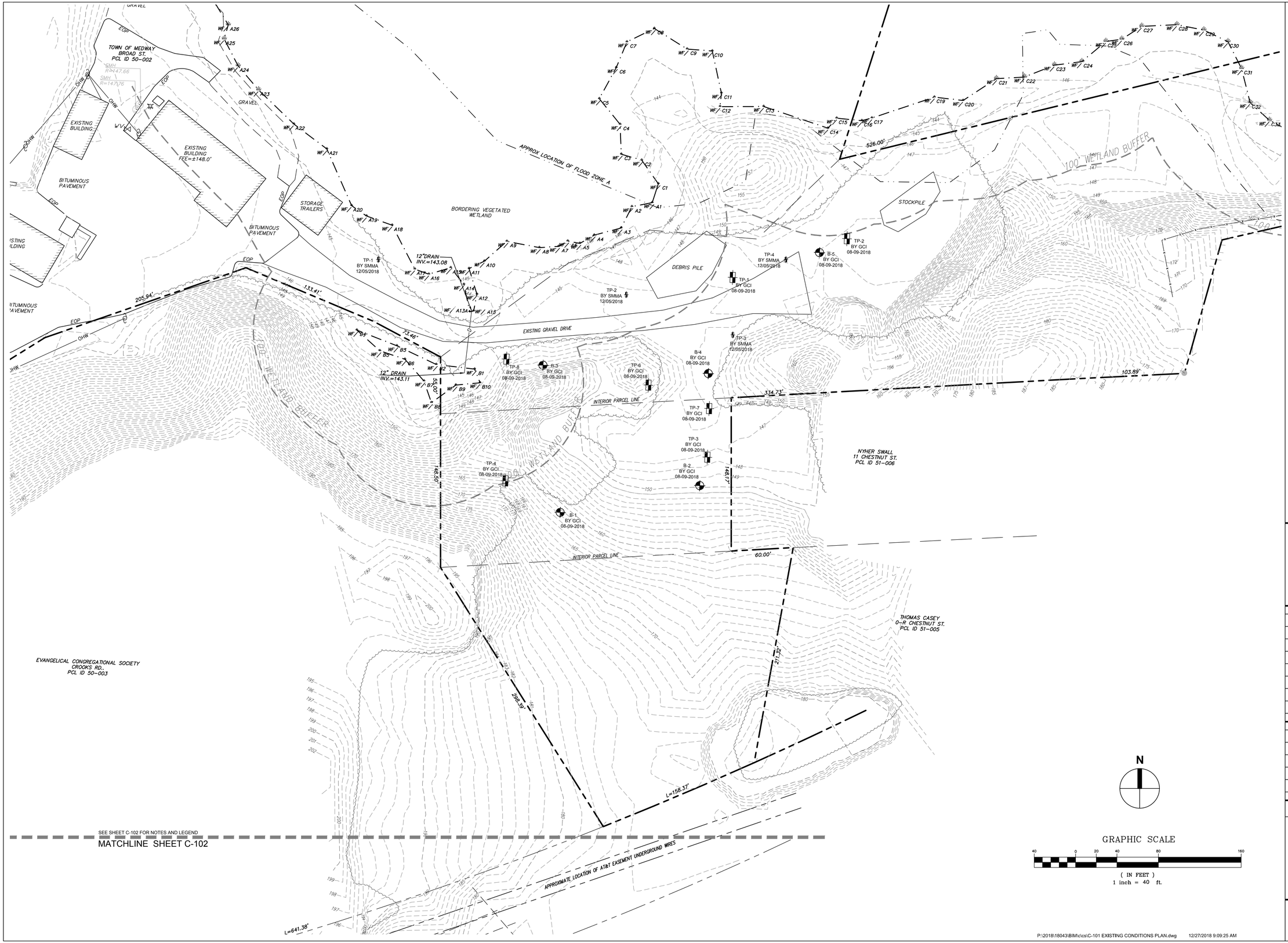
BUILDING:

SHEET TITLE:

COVER SHEET

DRAWING NO.

C-001



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THE TOWN OF MEDWAY MASSACHUSETTS INCORPORATED OCT 25 1713

TOWN OF MEDWAY

NEW DPW FACILITY

OWNER:

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155 VILLAGE STREET
MEDWAY, MA 02053

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COMMONWEALTH OF MASSACHUSETTS
PETER S. GLICK
CIVIL
No. 41514
REGISTERED PROFESSIONAL ENGINEER

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DRAWN BY	ACO
CHECKED BY	PSG
PROJECT NO.	18043.00

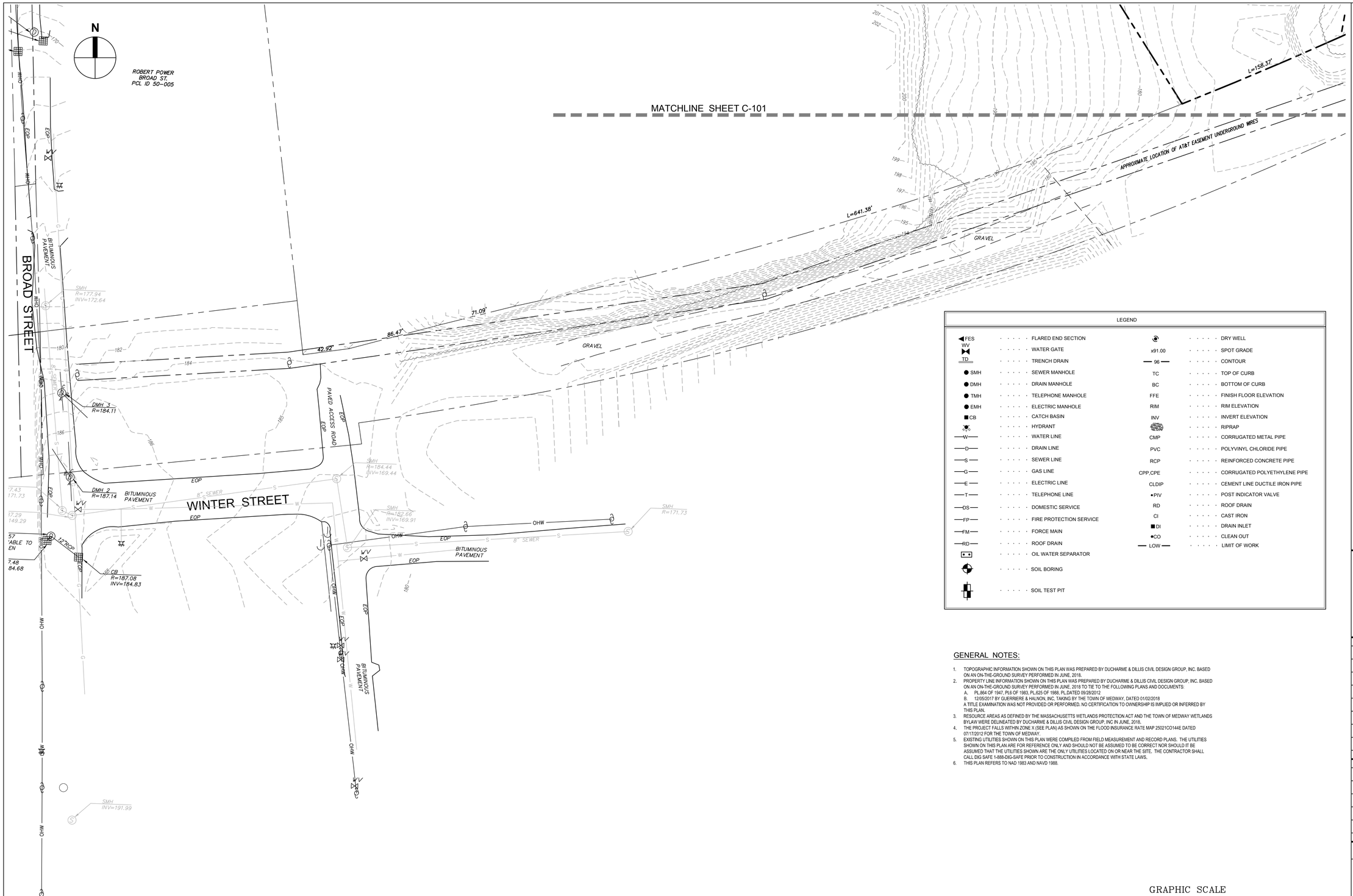
BUILDING:

SHEET TITLE:

EXISTING CONDITIONS PLAN I

DRAWING NO.

C-101



LEGEND			
FES	FLARED END SECTION		DRY WELL
WV	WATER GATE	x91.00	SPOT GRADE
TD	TRENCH DRAIN	96	CONTOUR
SMH	SEWER MANHOLE	TC	TOP OF CURB
DMH	DRAIN MANHOLE	BC	BOTTOM OF CURB
TMH	TELEPHONE MANHOLE	FFE	FINISH FLOOR ELEVATION
EMH	ELECTRIC MANHOLE	RIM	RIM ELEVATION
CB	CATCH BASIN	INV	INVERT ELEVATION
	HYDRANT		RIPRAP
W	WATER LINE	CMP	CORRUGATED METAL PIPE
D	DRAIN LINE	PVC	POLYVINYL CHLORIDE PIPE
S	SEWER LINE	RCP	REINFORCED CONCRETE PIPE
G	GAS LINE	CPP,CPE	CORRUGATED POLYETHYLENE PIPE
E	ELECTRIC LINE	CLDIP	CEMENT LINE DUCTILE IRON PIPE
T	TELEPHONE LINE	PIV	POST INDICATOR VALVE
DS	DOMESTIC SERVICE	RD	ROOF DRAIN
FP	FIRE PROTECTION SERVICE	CI	CAST IRON
FM	FORCE MAIN	DI	DRAIN INLET
RD	ROOF DRAIN	CO	CLEAN OUT
	OIL WATER SEPARATOR	LOW	LIMIT OF WORK
	SOIL BORING		
	SOIL TEST PIT		

GENERAL NOTES:

1. TOPOGRAPHIC INFORMATION SHOWN ON THIS PLAN WAS PREPARED BY DUCHARME & DILLIS CIVIL DESIGN GROUP, INC. BASED ON AN ON-THE-GROUND SURVEY PERFORMED IN JUNE, 2018.
2. PROPERTY LINE INFORMATION SHOWN ON THIS PLAN WAS PREPARED BY DUCHARME & DILLIS CIVIL DESIGN GROUP, INC. BASED ON AN ON-THE-GROUND SURVEY PERFORMED IN JUNE, 2018 TO TIE TO THE FOLLOWING PLANS AND DOCUMENTS:
   A. PL.864 OF 1947, PL6 OF 1983, PL.625 OF 1988, PL.DATED 09/28/2012
   B. 12/05/2017 BY GUERRIERE & HALNON, INC, TAKING BY THE TOWN OF MEDWAY, DATED 01/02/2018
   A TITLE EXAMINATION WAS NOT PROVIDED OR PERFORMED. NO CERTIFICATION TO OWNERSHIP IS IMPLIED OR INFERRED BY THIS PLAN.
3. RESOURCE AREAS AS DEFINED BY THE MASSACHUSETTS WETLANDS PROTECTION ACT AND THE TOWN OF MEDWAY WETLANDS BYLAW WERE DELINEATED BY DUCHARME & DILLIS CIVIL DESIGN GROUP, INC IN JUNE, 2018.
4. THE PROJECT FALLS WITHIN ZONE X (SEE PLAN) AS SHOWN ON THE FLOOD INSURANCE RATE MAP 25021C0144E DATED 07/17/2012 FOR THE TOWN OF MEDWAY.
5. EXISTING UTILITIES SHOWN ON THIS PLAN WERE COMPILED FROM FIELD MEASUREMENT AND RECORD PLANS. THE UTILITIES SHOWN ON THIS PLAN ARE FOR REFERENCE ONLY AND SHOULD NOT BE ASSUMED TO BE CORRECT NOR SHOULD IT BE ASSUMED THAT THE UTILITIES SHOWN ARE THE ONLY UTILITIES LOCATED ON OR NEAR THE SITE. THE CONTRACTOR SHALL CALL DIG SAFE 1-888-DIG-SAFE PRIOR TO CONSTRUCTION IN ACCORDANCE WITH STATE LAWS.
6. THIS PLAN REFERS TO NAD 1983 AND NAVD 1988.

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

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THE TOWN OF MEDWAY · MASSACHUSETTS · INCORPORATED · OCT · 25 · 1713

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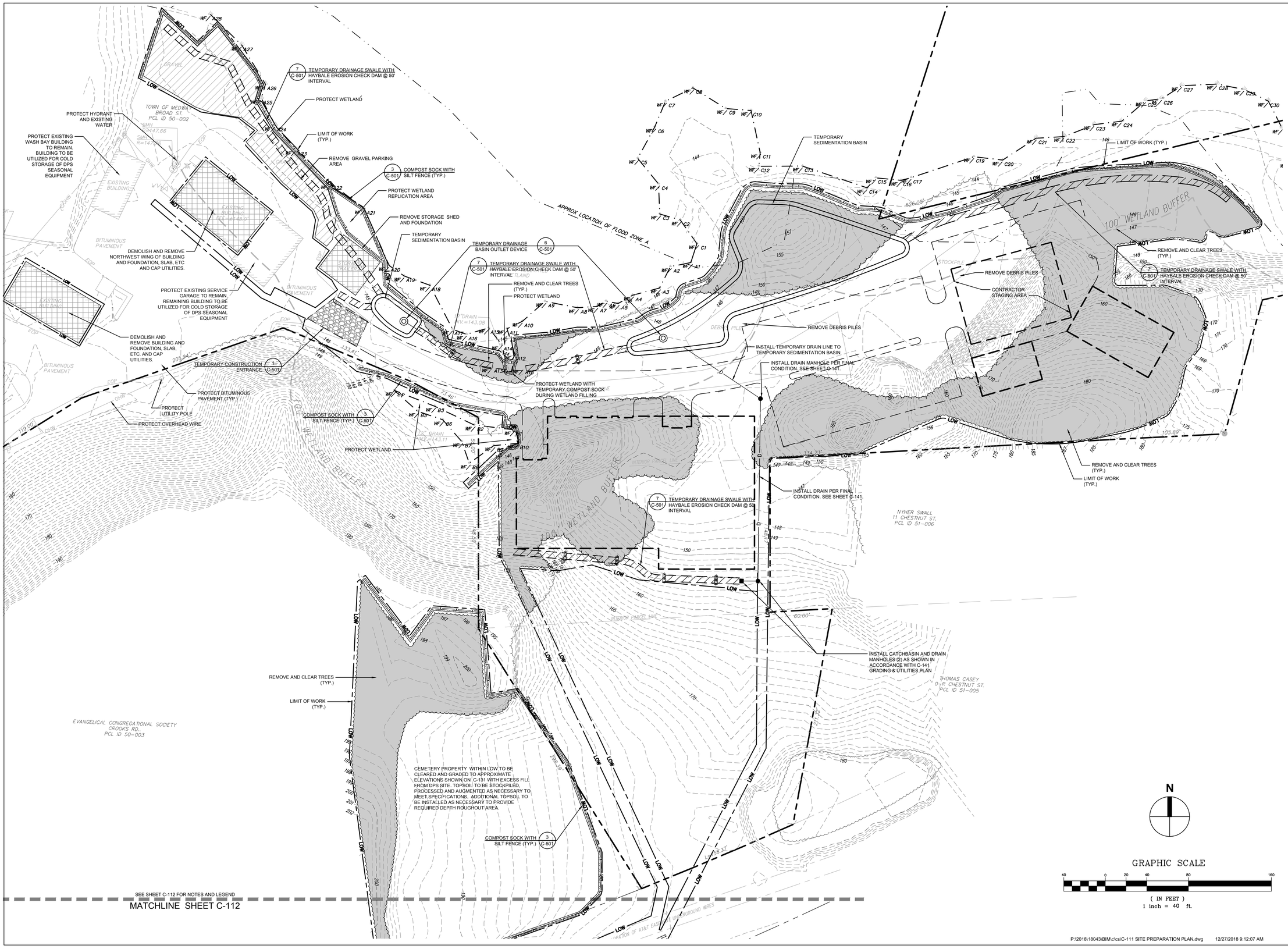
CHECKED BY	PSG
PROJECT NO.	18043.00

BUILDING:

SHEET TITLE:
EXISTING CONDITIONS PLAN II

DRAWING NO.
C-102



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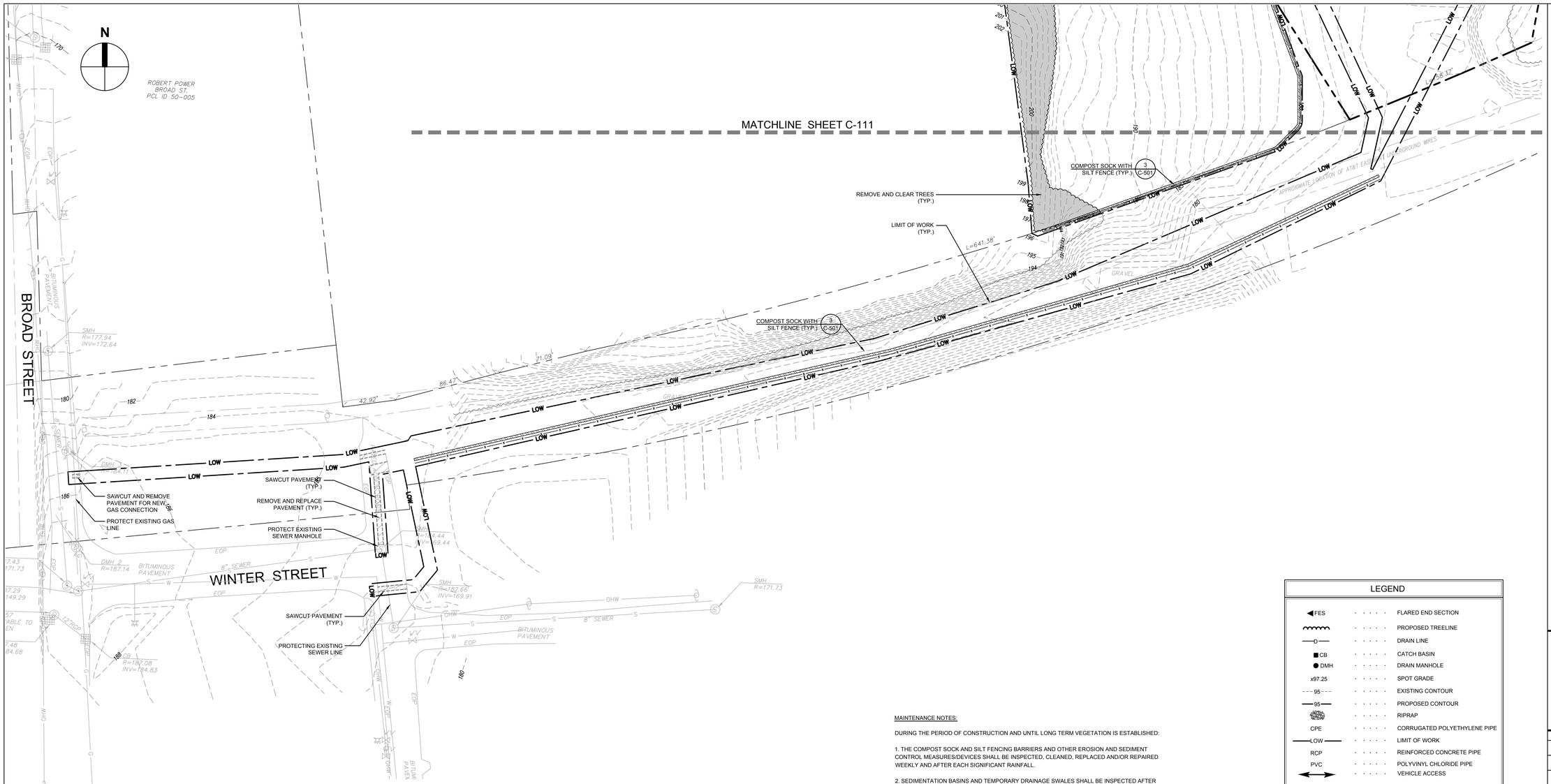
SHEET TITLE:
SITE PREPARATION PLAN I

DRAWING NO.
C-111



GENERAL EROSION CONTROL NOTES:

1. CONTRACTOR SHALL CONFORM TO ALL CONDITIONS LISTED IN THE ORDER OF CONDITIONS ISSUED FOR THIS PROJECT.

2. CONTRACTOR SHALL CONFORM TO ALL CONDITIONS OF THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AND THE NPDES GENERAL PERMIT.

3. EROSION AND SEDIMENTATION CONTROL MEASURES MUST BE IN PLACE AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY SITEWORK OR EARTHWORK OPERATIONS, AND MUST BE MAINTAINED DURING CONSTRUCTION, AND REMAIN IN PLACE UNTIL ALL SITEWORK IS COMPLETE AND GROUNDCOVER IS ESTABLISHED.

4. THE CONTRACTOR SHALL SUBMIT PROOF OF APPLICATION FOR A NPDES GENERAL PERMIT TO THE ARCHITECT AND OWNER PRIOR TO ANY ACTIVITY OR WORK ON SITE.

5. THE CONTRACTOR SHALL NOTIFY THE MEDWAY PLANNING BOARD AND CONSERVATION COMMISSION, IN WRITING, FORTY-EIGHT (48) HOURS BEFORE ANY ACTIVITY COMMENCES ON THE PROJECT SITE.

6. STOCKPILES MUST BE SURROUNDED ON THEIR PERIMETERS WITH STAKED COMPOST SOCKS AND SILT FENCES TO CONTROL EROSION.

7. STABILIZE EXPOSED AREAS IN ACCORDANCE WITH THE NPDES GENERAL PERMIT. STABILIZE STOCK PILES AND EXPOSED SOIL IN AREAS WHERE CONSTRUCTION ACTIVITIES WILL CEASE FOR 21 DAYS.

8. EARTHWORK ACTIVITY ON THE SITE SHALL BE DONE IN A MANNER SUCH THAT RUNOFF IS DIRECTED TO TEMPORARY DRAINAGE SWALES AND TEMPORARY SEDIMENTATION BASINS. TEMPORARY DRAINAGE SWALES ARE TO BE ADJUSTED AND RELOCATED THROUGHOUT THE SITE AS CONSTRUCTION PROGRESSES.

9. THE BIORETENTION AREA AS DESIGNATED ON THE PLANS, IS TO BE USED AS A TEMPORARY SEDIMENTATION BASIN THROUGHOUT CONSTRUCTION AND SHALL BE PERIODICALLY CLEANED DURING CONSTRUCTION. PRIOR TO COMPLETION OF THE BIORETENTION BASIN, ALL SILT AND SEDIMENT IS TO BE REMOVED TO ENSURE THAT THE PERMEABLE NATIVE SANDS ARE EXPOSED ON THE BOTTOM AND SIDES OF THE SUBGRADE. ADDITIONAL TEMPORARY SEDIMENTATION BASINS SHALL BE CONSTRUCTED AND USED THROUGHOUT THE SITE AS NECESSARY.

10. TEMPORARY SEDIMENTATION BASINS SHALL BE CONSTRUCTED TO CONTAIN A VOLUME OF RUNOFF EQUAL TO 0.12 ACRE-FT FOR EACH ACRE THAT IS TRIBUTARY TO THE BASIN.

11. THE DRAINAGE SYSTEM INCLUDING THE BIO-RETENTION AREA SHALL BE CONSTRUCTED DURING THE INITIAL PHASE OF THE PROJECT SO IT IS FUNCTIONAL DURING CONSTRUCTION. SAID STRUCTURES SHALL BE KEPT FREE OF SILT AND DEBRIS TO ENSURE THEIR PROPER OPERATION. THE CONTRACTOR SHALL INSTALL SILT SACKS AT CATCH BASIN GRATES AND USE STAKED HAYBALES AT CATCH BASINS IN ALL EXPOSED SOIL AREAS, AND AS INDICATED ON THE PLANS.

12. CULVERT AND PIPE INLETS AND OUTFALLS SHALL BE PROTECTED BY HAYBALE FILTERS UNTIL DISTURBED AREAS ARE PERMANENTLY STABILIZED. CATCHBASINS SHALL BE PROTECTED BY SILTSACKS UNTIL DISTURBED AREAS ARE PERMANENTLY STABILIZED.

13. DEWATERING REQUIRED IN CONSTRUCTING THE DETENTION AREAS OR FOR OTHER FEATURES ON THE SITE SHALL DISCHARGE INTO A TEMPORARY SEDIMENTATION BASIN.

14. THE LOCATION OF HAYBALE CHECK DAMS SHALL BE FIELD VERIFIED DURING SITE PREPARATION OPERATIONS BY THE OWNER'S REPRESENTATIVE.

15. SOIL SHALL NOT BE STOCKPILED WITHIN THE 100 FOOT WETLAND BUFFER ZONE. RE-FUELING OF EQUIPMENT IS NOT ALLOWED WITHIN THE 100 FOOT WETLAND BUFFER ZONE. THE STORAGE OF MACHINERY IS NOT ALLOWED WITHIN THE 100 FOOT WETLAND BUFFER ZONE.

16. ALL EROSION CONTROL MEASURES MUST BE ROUTINELY INSPECTED, CLEANED AND REPAIRED OR REPLACED AS NECESSARY THROUGHOUT ALL PHASES OF CONSTRUCTION. IN ADDITION, INSPECTION MUST TAKE PLACE AFTER EACH RAINFALL EVENT.

17. THE CONTRACTOR MUST KEEP ON SITE AT ALL TIMES ADDITIONAL COMPOST SOCK, HAYBALES, SILT FENCING, EROSION CONTROL BLANKETS, STONE RIP-RAP, AND OTHER EROSION CONTROL DEVICES USED DURING CONSTRUCTION. THESE SHALL BE INSTALLED AS NEEDED AND AT THE DIRECTION OF THE ENGINEER OR THE MASS DEP, NERO TO MITIGATE ANY EMERGENCY CONDITION. MINIMUM RESERVE OF COMPOST SOCK AND SILT FENCE MUST INCLUDE 50 LF WITH STAKES.

18. INSTALL EROSION CONTROL MATS ON ALL SLOPES 3:1 OR STEEPER.

MAINTENANCE NOTES:

DURING THE PERIOD OF CONSTRUCTION AND UNTIL LONG TERM VEGETATION IS ESTABLISHED:

1. THE COMPOST SOCK AND SILT FENCING BARRIERS AND OTHER EROSION AND SEDIMENT CONTROL MEASURES/DEVICES SHALL BE INSPECTED, CLEANED, REPLACED AND/OR REPAIRED WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL.

2. SEDIMENTATION BASINS AND TEMPORARY DRAINAGE SWALES SHALL BE INSPECTED AFTER EACH SIGNIFICANT RAINFALL AND CLEANED AS NEEDED TO RETAIN DESIGN CAPACITY.

3. THE ENTRANCES AND EXITS FROM THE SITE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT INTO THE DPS ACCESS DRIVE OR THE PUBLIC WAY. ALL SEDIMENT THAT IS TRACKED, SPILLED OR WASHED INTO THE DPS DRIVE OR PUBLIC WAY SHALL BE REMOVED BY THE CONTRACTOR IMMEDIATELY.

4. CATCH BASINS, OVERFLOW CONTROL STRUCTURES AND OIL/SAND TRAPS SHALL BE INSPECTED AT LEAST EIGHT TIMES PER YEAR, DURING CONSTRUCTION, AND REMOVE SEDIMENT IF OVER SIX INCHES DEEP.

Construction Sequence

The following is the expected sequence of events that will occur prior to and during construction

1. A pre-construction meeting with the Owner's Representative, Planning Board, Conservation Commission, Engineer and Contractor to review project scope including erosion control, work limits, tree removal, etc.
2. Compost socks will be installed at the perimeter of construction.
3. Temporary construction entrance will be installed at drive adjacent to DPS paved yard.
4. Temporary sedimentation basins and swales will be installed.
5. Trees will be removed within the limit of work, as necessary to prepare the building pad and rough grade perimeter slopes.
6. The earthwork associated with the building pad will commence.
7. Building footings and foundations will commence.
8. Site rough grading will commence including shaping bioretention basin.
9. Drainage and utilities will be installed.
10. Utility corridor and connection to Town utilities will be completed.
11. Building under slab utilities will be installed.
12. Building slab will be poured and building steel will be erected.
13. Remaining building construction will be completed.
14. Building drainage will be connected to site drain system.
15. Final grading at building perimeter will be completed.
16. Sidewalks and pavement areas will be completed.
17. Lawn areas will be loamed and seeded.
18. Perimeter erosion control measures will be removed.

LEGEND

FES	FLARED END SECTION
	PROPOSED TREELINE
D	DRAIN LINE
CB	CATCH BASIN
DMH	DRAIN MANHOLE
x97.25	SPOT GRADE
95	EXISTING CONTOUR
95	PROPOSED CONTOUR
RIPRAP	RIPRAP
CPE	CORRUGATED POLYETHYLENE PIPE
LOW	LIMIT OF WORK
RCP	REINFORCED CONCRETE PIPE
PVC	POLYVINYL CHLORIDE PIPE
	VEHICLE ACCESS
	STRAW WATTLE WITH SILT FENCE
	BUILDING
	EDGE OF PAVEMENT
	DIRECTION OF SURFACE RUNOFF
	REMOVE BITUMINOUS PAVEMENT AND ADJACENT CURBING
	REMOVE BUILDING, CONCRETE SLABS, AND FOUNDATION
	REMOVE AND CLEAR TREES
	REMOVE LIGHT POLE
	REMOVE TREES
	TEMPORARY OUTLET STRUCTURE

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

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TOWN OF MEDWAY

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CHECKED BY	PSG
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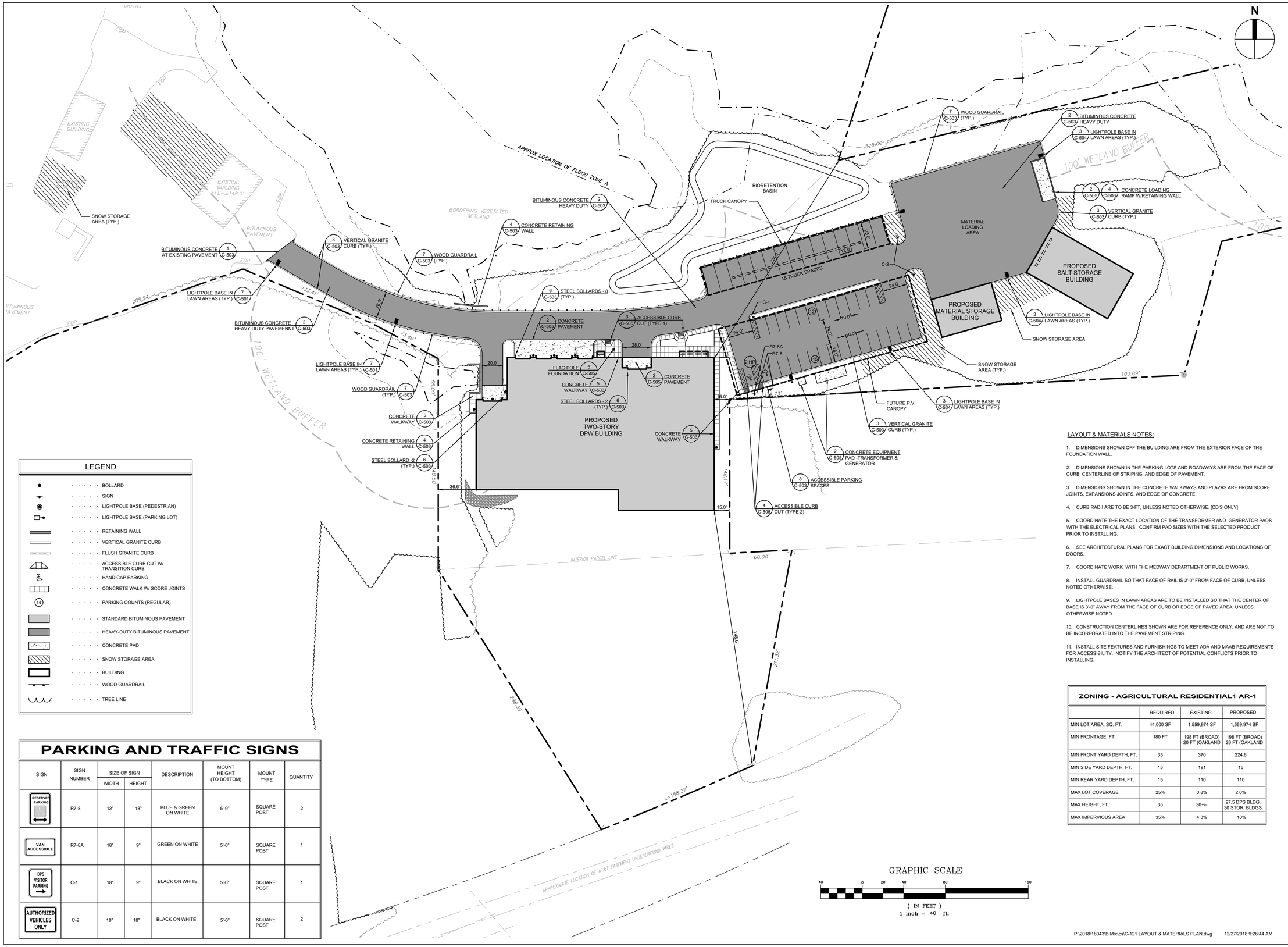
BUILDING:

SHEET TITLE:

SITE PREPARATION PLAN II

DRAWING NO.

C-112



LEGEND

- BOLLARD
- SIGN
- LIGHTPOLE BASE (PEDESTRIAN)
- LIGHTPOLE BASE (PARKING LOT)
- RETAINING WALL
- VERTICAL GRANITE CURB
- FLUSH GRANITE CURB
- ACCESSIBLE CURB CUT W/ TRANSITION CURB
- HANDICAP PARKING
- CONCRETE WALK W/ SCORE JOINTS
- PARKING COUNTS (REGULAR)
- STANDARD BITUMINOUS PAVEMENT
- HEAVY-DUTY BITUMINOUS PAVEMENT
- CONCRETE PAD
- SNOW STORAGE AREA
- BUILDING
- WOOD GUARDRAIL
- TREE LINE

PARKING AND TRAFFIC SIGNS

SIGN	SIGN NUMBER	SIZE OF SIGN WIDTH	SIZE OF SIGN HEIGHT	DESCRIPTION	MOUNT HEIGHT (TO BOTTOM)	MOUNT TYPE	QUANTITY
RESERVED PARKING	R7-8	12"	18"	BLUE & GREEN ON WHITE	5'-9"	SQUARE POST	2
VAN ACCESSIBLE	R7-8A	18"	9"	GREEN ON WHITE	5'-0"	SQUARE POST	1
DPS VISITOR PARKING	C-1	18"	9"	BLACK ON WHITE	5'-6"	SQUARE POST	1
AUTHORIZED VEHICLES ONLY	C-2	18"	18"	BLACK ON WHITE	5'-6"	SQUARE POST	2

LAYOUT & MATERIALS NOTES:

1. DIMENSIONS SHOWN OFF THE BUILDING ARE FROM THE EXTERIOR FACE OF THE FOUNDATION WALL.

2. DIMENSIONS SHOWN IN THE PARKING LOTS AND ROADWAYS ARE FROM THE FACE OF CURB, CENTERLINE OF STRIPING, AND EDGE OF PAVEMENT.

3. DIMENSIONS SHOWN IN THE CONCRETE WALKWAYS AND PLAZAS ARE FROM SCORE JOINTS, EXPANSIONS JOINTS, AND EDGE OF CONCRETE.

4. CURB RADII ARE TO BE 3-FT, UNLESS NOTED OTHERWISE. [CD'S ONLY]

5. COORDINATE THE EXACT LOCATION OF THE TRANSFORMER AND GENERATOR PADS WITH THE ELECTRICAL PLANS. CONFIRM PAD SIZES WITH THE SELECTED PRODUCT PRIOR TO INSTALLING.

6. SEE ARCHITECTURAL PLANS FOR EXACT BUILDING DIMENSIONS AND LOCATIONS OF DOORS.

7. COORDINATE WORK WITH THE MEDWAY DEPARTMENT OF PUBLIC WORKS.

8. INSTALL GUARDRAIL SO THAT FACE OF RAIL IS 2'-0" FROM FACE OF CURB, UNLESS NOTED OTHERWISE.

9. LIGHTPOLE BASES IN LAWN AREAS ARE TO BE INSTALLED SO THAT THE CENTER OF BASE IS 2'-0" AWAY FROM THE FACE OF CURB OR EDGE OF PAVED AREA, UNLESS OTHERWISE NOTED.

10. CONSTRUCTION CENTERLINES SHOWN ARE FOR REFERENCE ONLY, AND ARE NOT TO BE INCORPORATED INTO THE PAVEMENT STRIPING.

11. INSTALL SITE FEATURES AND FURNISHINGS TO MEET ADA AND MAAB REQUIREMENTS FOR ACCESSIBILITY. NOTIFY THE ARCHITECT OF POTENTIAL CONFLICTS PRIOR TO INSTALLING.

ZONING - AGRICULTURAL RESIDENTIAL1 AR-1

	REQUIRED	EXISTING	PROPOSED
MIN LOT AREA, SQ. FT.	44,000 SF	1,559,974 SF	1,559,974 SF
MIN FRONTAGE, FT.	180 FT	198 FT (BROAD) 20 FT (OAKLAND	198 FT (BROAD) 20 FT (OAKLAND
MIN FRONT YARD DEPTH, FT.	35	370	224.6
MIN SIDE YARD DEPTH, FT.	15	191	15
MIN REAR YARD DEPTH, FT.	15	110	110
MAX LOT COVERAGE	25%	0.8%	2.6%
MAX HEIGHT, FT.	35	30+/-	27.5 DPS BLDG. 30 STOR. BLDGS.
MAX IMPERVIOUS AREA	35%	4.3%	10%

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MILLBURY, MA 01527

ELECTRICAL ENGINEER:
JOHN J. MURPHY, JR. ELECTRICAL CONSTRUCTION AND ENGINEERING, INC.
379 LIBERTY STREET
ROCKLAND, MA 02370

STAMP

COMMONWEALTH OF MASSACHUSETTS
PETER S. GLICK
CIVIL
No. 41514
REGISTERED PROFESSIONAL ENGINEER

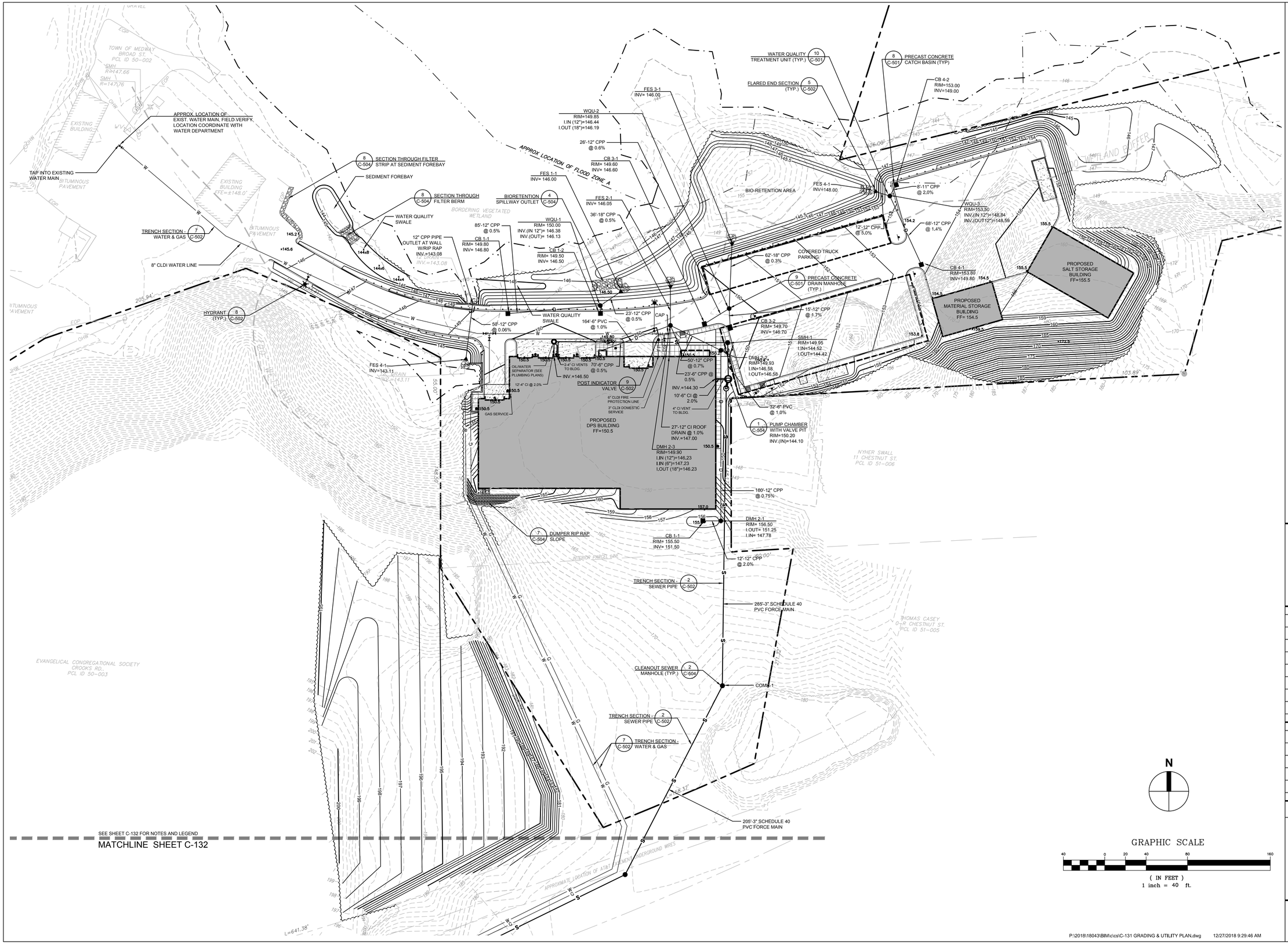
REV	DATE	DESCRIPTION
	12/27/18	ISSUED FOR NOTICE OF INTENT
	12/20/18	ISSUED FOR SITE PLAN REVIEW
	11/28/18	ISSUED FOR DESIGN REVIEW COMMITTEE REVIEW
	11/08/18	ISSUED FOR PRE-APPLICATION MEETING W/PLANNING BOARD

DATE	
SCALE	1" = 40'
DRAWN BY	ACO
CHECKED BY	PSG
PROJECT NO.	18043.00

BUILDING:

SHEET TITLE:
LAYOUT & MATERIALS PLAN

DRAWING NO.
C-121



P:\2018\18043\BIM\cics\C-131 GRADING & UTILITY PLAN.dwg 12/27/2018 9:29:46 AM

THE TOWN OF MEDWAY · MASSACHUSETTS · INCORPORATED OCT 25 1713

TOWN OF MEDWAY

NEW DPW FACILITY

OWNER:
TOWN OF MEDWAY
155 VILLAGE STREET
MEDWAY, MA 02053

ARCHITECT:
HELENE • KARL
Architects, Inc.
61 Skyfields Drive, Groton, Massachusetts 01450

CIVIL ENGINEER:
SYMMES, MAINI & McKEE ASSOCIATES
1000 MASSACHUSETTS AVENUE
CAMBRIDGE, MA 02138

STRUCTURAL ENGINEER:
SYMMES, MAINI & McKEE ASSOCIATES
1000 MASSACHUSETTS AVENUE
CAMBRIDGE, MA 02138

MECHANICAL ENGINEER:
SEAMAN ENGINEERING CORP.
22 WEST STREET, UNIT C
MILLBURY, MA 01527

ELECTRICAL ENGINEER:
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ROCKLAND, MA 02370

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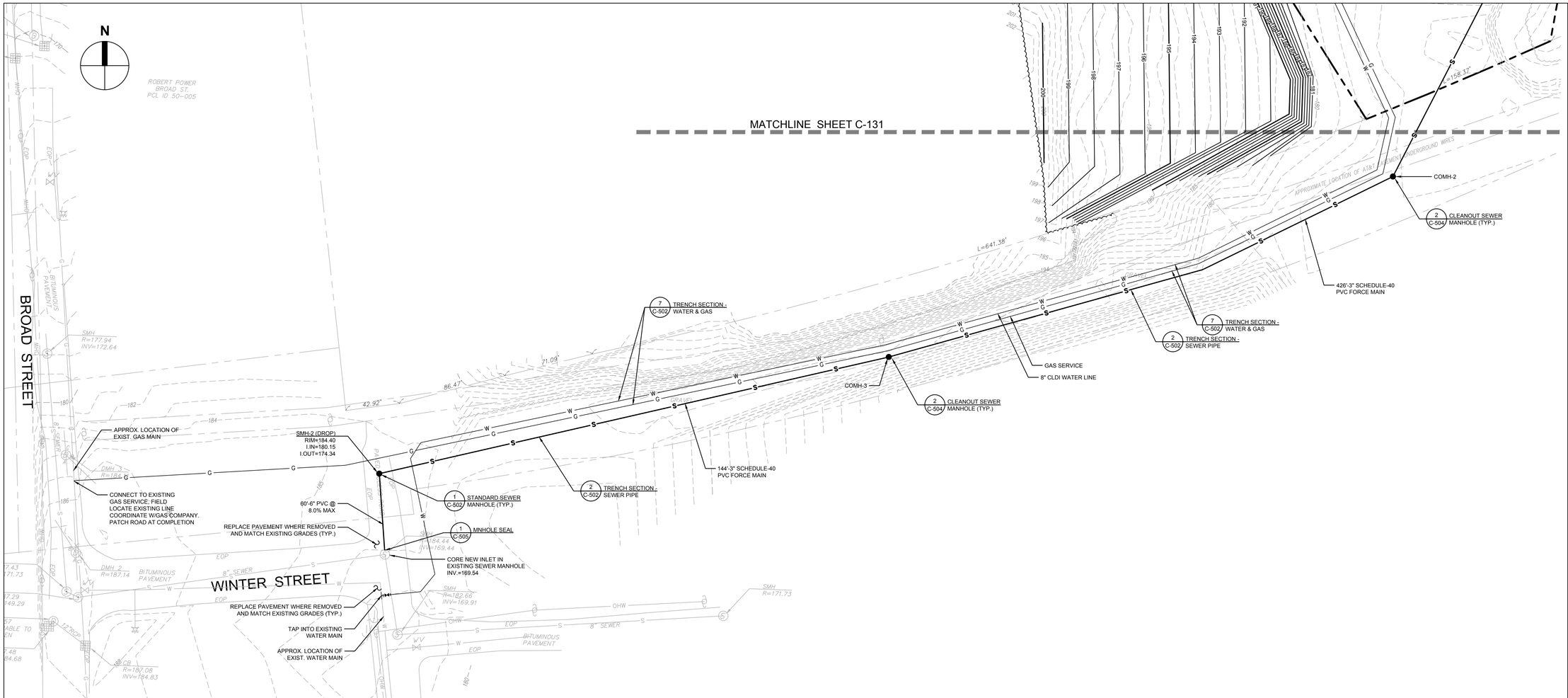
PROJECT NO.	18043.00

BUILDING:

SHEET TITLE:
GRADING & UTILITY PLAN I

DRAWING NO.
C-131



NOTES:

1. PRIOR TO CONSTRUCTION, THE CONTRACTOR MUST VERIFY EXISTING UTILITY LOCATIONS AS SHOWN ON THE DRAWINGS. REPORT DISCREPANCIES TO SYMMES MAINI & McKEE ASSOCIATES. 2. CONTRACTOR MUST PAY ALL FEES AND PERMITS. (UNLESS OTHERWISE NOTED.)

3. PIPE MATERIALS: STORM DRAIN: CORRUGATED POLETHYLENE PIPE (CPE) (UNLESS OTHERWISE SPECIFIED)
WATER: CLASS 52 CEMENT LINED DUCTILE IRON
SEWER: POLYVINYL CHLORIDE PIPE (PVC)
GRAVITY-SDR 35
FORCE MAIN - SCHEDULE 40

4. PROVIDE ADEQUATE BRACING AND SHORING OF ALL EXCAVATIONS IN ACCORDANCE WITH ALL GOVERNING CODES AND REGULATIONS.

5. PROTECT ALL NEW AND EXISTING UTILITIES DURING CONSTRUCTION.

6. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE UTILITY COMPANIES.

7. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY AND "DIG SAFE" AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK TO REQUEST EXACT FIELD LOCATION OF UTILITIES AND THE ENGINEER MUST BE NOTIFIED OF ANY UTILITIES INTERFERING WITH THE PROPOSED CONSTRUCTION.

8. THE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL CONTROL POINTS AND BENCH MARKS NECESSARY FOR THE CONSTRUCTION OF THE PROJECT.

9. THE CONTRACTOR SHALL CLEAN ALL STRUCTURES PRIOR TO PROJECT CLOSE-OUT.

10. THE GAS, ELECTRIC AND TELEPHONE SERVICES SHOWN ARE APPROXIMATE. COORDINATE ACTUAL LOCATIONS WITH THE APPROPRIATE SUBCONTRACTOR AND UTILITY COMPANY.

11. PROVIDE CONCRETE THRUST BLOCKS AT ALL BENDS 22 -1/2 MAIN.

12. PROPOSED HYDRANTS MUST MEET THE REQUIREMENTS OF THE TOWN OF MEDWAY FIRE DEPARTMENT AND WATER DEPARTMENT.

13. FOR FINAL LOCATION OF UTILITY POLES, OVERHEAD WIRES AND UNDERGROUND ELECTRIC, SEE ELECTRICAL SITE PLAN.

14. REFER TO ELECTRICAL SITE PLANS FOR EXACT ROUTING OF UNDERGROUND ELECTRICAL AND TELECOMMUNICATION UTILITIES AND FOR TEMPORARY ELECTRICAL UTILITIES. REFER TO ELECTRICAL SITE PLANS FOR EXACT NUMBER AND LOCATION OF LIGHT POLES AND FOR LIGHTING TYPES.

15. GAS SERVICE INSTALLATION FROM MAIN TO GAS METER AT BUILDING INCLUDING METER IS BY THE GAS COMPANY. EXCAVATION AND BACKFILLING BY THE CONTRACTOR. CONTRACTOR TO COORDINATE WITH THE GAS COMPANY.

16. MAINTAIN A MINIMUM 10 FOOT HORIZONTAL SEPARATION BETWEEN SANITARY SEWER AND WATER LINES. AT CROSSINGS SANITARY SEWER (GRAVITY AND FORCE MAIN) IS TO BE INSTALLED BELOW WATER LINES WITH A MINIMUM SEPARATION OF 18 INCHES.

LEGEND

FES	FLARED END SECTION		DRY WELL
WV	WATER GATE	x91.00	SPOT GRADE
TD	TRENCH DRAIN	96	CONTOUR
SMH	SEWER MANHOLE	TC	TOP OF CURB
COMH	CLEANOUT MANHOLE	BC	BOTTOM OF CURB
DMH	DRAIN MANHOLE	FFE	FINISH FLOOR ELEVATION
EMH	ELECTRIC MANHOLE	RIM	RIM ELEVATION
CB	CATCH BASIN	INV	INVERT ELEVATION
PIV	POST INDICATOR VALVE		RIPRAP
	HYDRANT	CMP	CORRUGATED METAL PIPE
W	WATER LINE	PVC	POLYVINYL CHLORIDE PIPE
D	DRAIN LINE	RCP	REINFORCED CONCRETE PIPE
S	SEWER LINE	CPP,CPE	CORRUGATED POLYETHYLENE PIPE
G	GAS LINE	CLDIP	CEMENT LINE DUCTILE IRON PIPE
E	ELECTRIC LINE	PIV	POST INDICATOR VALVE
T	TELEPHONE LINE	RD	ROOF DRAIN
DS	DOMESTIC SERVICE	CI	CAST IRON
FP	FIRE PROTECTION SERVICE	DI	DRAIN INLET
FM	FORCE MAIN	LOW	LIMIT OF WORK
RD	ROOF DRAIN		

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

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THE TOWN OF MEDWAY · MASSACHUSETTS · INCORPORATED OCT 25 1713

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ROCKLAND, MA 02370

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COMMONWEALTH OF MASSACHUSETTS
PETER S. GLICK
CIVIL
No. 41514
REGISTERED PROFESSIONAL ENGINEER

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CHECKED BY	PSG
PROJECT NO.	18043.00

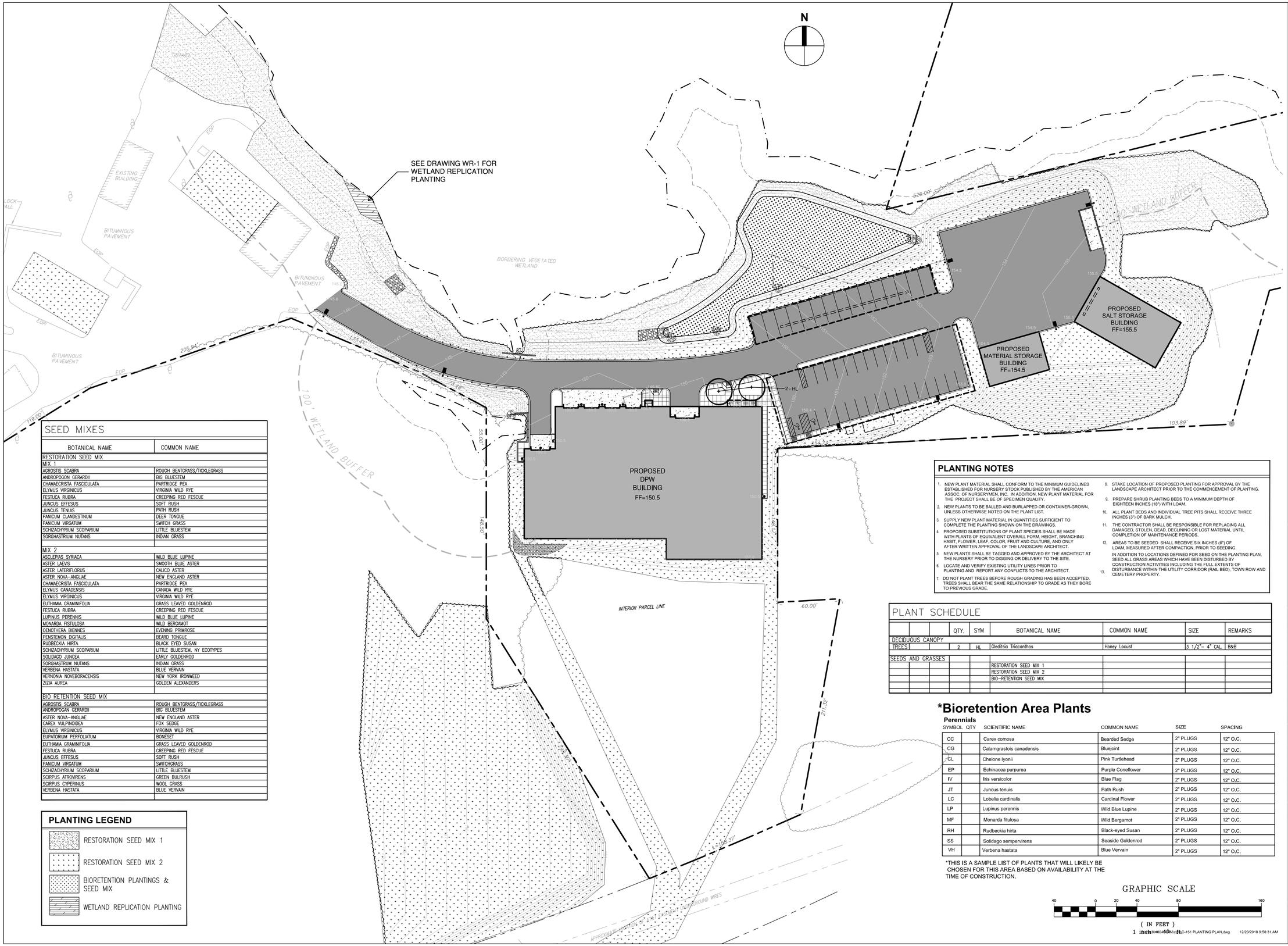
BUILDING:

SHEET TITLE:

GRADING & UTILITY PLAN II

DRAWING NO.

C-132



SEED MIXES

BOTANICAL NAME	COMMON NAME
RESTORATION SEED MIX	
MIX 1	
AGROSTIS SCABRA	ROUGH BENTGRASS/TICKLEGRASS
ANDROPOGON GERARDII	BIG BLUESTEM
CHAMAECRISTA FASCICULATA	PARTRIDGE PEA
ELYMUS VIRGINICUS	VIRGINIA WILD RYE
FESTUCA RUBRA	CREEPING RED FESCUE
JUNCUS EFFESUS	SOFT RUSH
JUNCUS TENUIS	PATH RUSH
PANICUM CLANDESTINUM	DEER TONGUE
PANICUM VIRGATUM	SWITCH GRASS
SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM
SORGHASTRIUM NUTANS	INDIAN GRASS
MIX 2	
ASCLEPIAS SYRIACA	WILD BLUE LUPINE
ASTER LAEVIS	SMOOTH BLUE ASTER
ASTER LATERIFLORUS	CALICO ASTER
ASTER NOVA–ANGLIAE	NEW ENGLAND ASTER
CHAMAECRISTA FASCICULATA	PARTRIDGE PEA
ELYMUS CANADENSIS	CANADA WILD RYE
ELYMUS VIRGINICUS	VIRGINIA WILD RYE
EUTHAMIA GRAMINIFOLIA	GRASS LEAVED GOLDENROD
FESTUCA RUBRA	CREEPING RED FESCUE
LUPINUS PERENNIS	WILD BLUE LUPINE
MONARDA FISTULOSA	WILD BERGAMOT
OENOTHERA BIENNES	EVENING PRIMROSE
PENSTEMON DIGITALIS	BEARD TONGUE
RUDBECKIA HIRTA	BLACK EYED SUSAN
SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM, NY ECOTYPES
SOLIDAGO JUNCEA	EARLY GOLDENROD
SORGHASTRIUM NUTANS	INDIAN GRASS
VERBENA HASTATA	BLUE VERVAIN
VERNONIA NOVEBORACENSIS	NEW YORK IRONWEED
ZIZIA AUREA	GOLDEN ALEXANDERS
BIO RETENTION SEED MIX	
AGROSTIS SCABRA	ROUGH BENTGRASS/TICKLEGRASS
ANDROPOGAN GERARDII	BIG BLUESTEM
ASTER NOVA–ANGLIAE	NEW ENGLAND ASTER
CAREX VULPINOIDEA	FOX SEDGE
ELYMUS VIRGINICUS	VIRGINIA WILD RYE
EUPATORIUM PERFOLIATUM	BONESET
EUTHAMIA GRAMINIFOLIA	GRASS LEAVED GOLDENROD
FESTUCA RUBRA	CREEPING RED FESCUE
JUNCUS EFFESUS	SOFT RUSH
PANICUM VIRGATUM	SWITCHGRASS
SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM
SCIRPUS ATROVIRENS	GREEN BULRUSH
SCIRPUS CYPERINUS	WOOL GRASS
VERBENA HASTATA	BLUE VERVAIN

PLANTING LEGEND

- RESTORATION SEED MIX 1
- RESTORATION SEED MIX 2
- BIORETENTION PLANTINGS & SEED MIX
- WETLAND REPLICATION PLANTING

PLANTING NOTES

1. NEW PLANT MATERIAL SHALL CONFORM TO THE MINIMUM GUIDELINES ESTABLISHED FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOC. OF NURSERYMEN, INC. IN ADDITION, NEW PLANT MATERIAL FOR THE PROJECT SHALL BE OF SPECIMEN QUALITY.
2. NEW PLANTS TO BE BALLED AND BURLAPPED OR CONTAINER-GROWN, UNLESS OTHERWISE NOTED ON THE PLANT LIST.
3. SUPPLY NEW PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON THE DRAWINGS.
4. PROPOSED SUBSTITUTIONS OF PLANT SPECIES SHALL BE MADE WITH PLANTS OF EQUIVALENT OVERALL FORM, HEIGHT, BRANCHING HABIT, FLOWER, LEAF, COLOR, FRUIT AND CULTURE, AND ONLY AFTER WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT.
5. NEW PLANTS SHALL BE TAGGED AND APPROVED BY THE ARCHITECT AT THE NURSERY PRIOR TO DIGGING OR DELIVERY TO THE SITE.
6. LOCATE AND VERIFY EXISTING UTILITY LINES PRIOR TO PLANTING AND REPORT ANY CONFLICTS TO THE ARCHITECT.
7. DO NOT PLANT TREES BEFORE ROUGH GRADING HAS BEEN ACCEPTED. TREES SHALL BEAR THE SAME RELATIONSHIP TO GRADE AS THEY BORE TO PREVIOUS GRADE.
8. STAKE LOCATION OF PROPOSED PLANTING FOR APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO THE COMMENCEMENT OF PLANTING.
9. PREPARE SHRUB PLANTING BEDS TO A MINIMUM DEPTH OF EIGHTEEN INCHES (18") WITH LOAM.
10. ALL PLANT BEDS AND INDIVIDUAL TREE PITS SHALL RECEIVE THREE INCHES (3") OF BARK MULCH.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ALL DAMAGED, STOLEN, DEAD, DECLINING OR LOST MATERIAL UNTIL COMPLETION OF MAINTENANCE PERIODS.
12. AREAS TO BE SEEDED SHALL RECEIVE SIX INCHES (6") OF LOAM, MEASURED AFTER COMPACTION, PRIOR TO SEEDING.
13. IN ADDITION TO LOCATIONS DEFINED FOR SEED ON THE PLANTING PLAN, SEED ALL GRASS AREAS WHICH HAVE BEEN DISTURBED BY CONSTRUCTION ACTIVITIES INCLUDING THE FULL EXTENTS OF DISTURBANCE WITHIN THE UTILITY CORRIDOR (RAIL BED), TOWN ROW AND CEMETERY PROPERTY.

PLANT SCHEDULE

	QTY.	SYM	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
DECIDUOUS CANOPY TREES						
	2	HL	Gleditsia Triacanthos	Honey Locust	3 1/2"– 4" CAL.	B&B
SEEDS AND GRASSES						
			RESTORATION SEED MIX 1			
			RESTORATION SEED MIX 2			
			BIO–RETENTION SEED MIX			

*Bioretention Area Plants

Perennials

SYMBOL	QTY	SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING
CC		Carex comosa	Bearded Sedge	2" PLUGS	12" O.C.
CG		Calamgrastois canadensis	Bluejoint	2" PLUGS	12" O.C.
CL		Chelone lyonii	Pink Turtlehead	2" PLUGS	12" O.C.
EP		Echinacea purpurea	Purple Coneflower	2" PLUGS	12" O.C.
IV		Iris versicolor	Blue Flag	2" PLUGS	12" O.C.
JT		Juncus tenuis	Path Rush	2" PLUGS	12" O.C.
LC		Lobelia cardinalis	Cardinal Flower	2" PLUGS	12" O.C.
LP		Lupinus perennis	Wild Blue Lupine	2" PLUGS	12" O.C.
MF		Monarda fitulosa	Wild Bergamot	2" PLUGS	12" O.C.
RH		Rudbeckia hirta	Black-eyed Susan	2" PLUGS	12" O.C.
SS		Solidago sempervirens	Seaside Goldenrod	2" PLUGS	12" O.C.
VH		Verbena hastata	Blue Vervain	2" PLUGS	12" O.C.

*THIS IS A SAMPLE LIST OF PLANTS THAT WILL LIKELY BE CHOSEN FOR THIS AREA BASED ON AVAILABILITY AT THE TIME OF CONSTRUCTION.

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

18043.00 C-151 PLANTING PLAN.dwg 12/20/2018 9:58:31 AM

TOWN OF MEDWAY

NEW DPW FACILITY

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155 VILLAGE STREET
MEDWAY, MA 02053

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REGISTERED ARCHITECT GREGORY E. YANCHENKO No. 7400 GROTON, MA COMMONWEALTH OF MASSACHUSETTS

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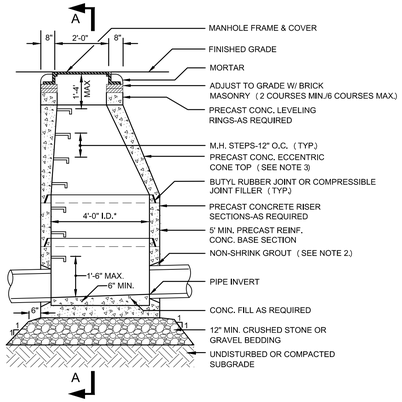
BUILDING:

SHEET TITLE:

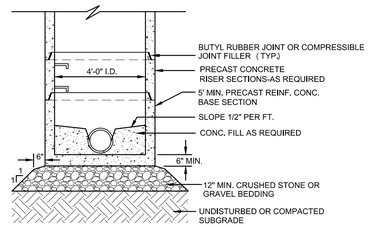
PLANTING PLAN

DRAWING NO.

C-151



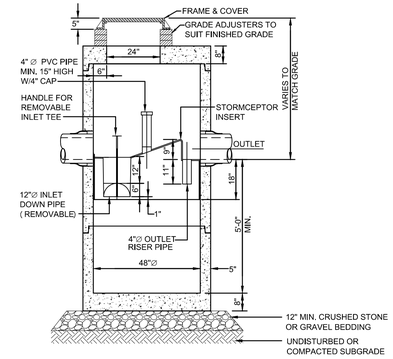
NOTE: 1. STRUCTURE ADEQUATE FOR H-20 LOADING.
2. NEOPRENE SEAL TO CONFORM TO ASTM C-443 (SANITARY M.H. ONLY.)
3. PROVIDE SLAB TOP WHERE REQUIRED.



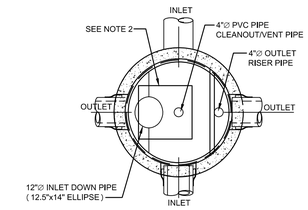
SECTION A

* PROVIDE 5'-0" I.D. SECTIONS AS REQUIRED FOR MULTIPLE/LARGE DIAMETER PIPES.

9 PRECAST CONCRETE DRAIN MANHOLE
N.T.S.



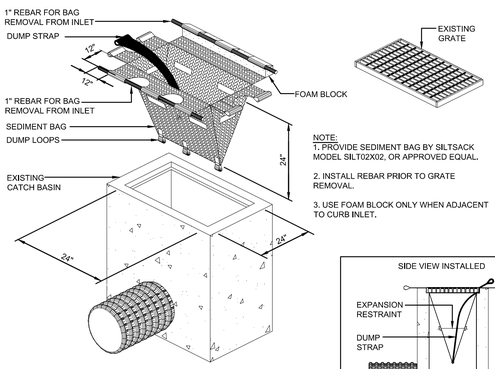
SECTION THRU CHAMBER



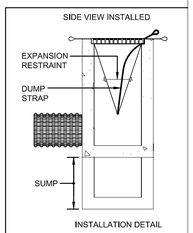
SECTION THRU PLAN VIEW

NOTE :
1. THE USE OF FLEXIBLE CONNECTIONS IS RECOMMENDED AT THE INLET AND OUTLET WHERE APPLICABLE.
2. THE COVER SHOULD BE POSITIONED OVER THE CLEANOUT/ VENT PIPE.

10 450 GALLON WATER QUALITY UNIT
N.T.S.

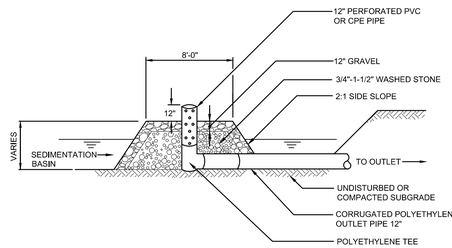


NOTE:
1. PROVIDE SEDIMENT BAG BY SILTSACK MODEL SILT02X02, OR APPROVED EQUAL.
2. INSTALL REBAR PRIOR TO GRATE REMOVAL.
3. USE FOAM BLOCK ONLY WHEN ADJACENT TO CURB INLET.

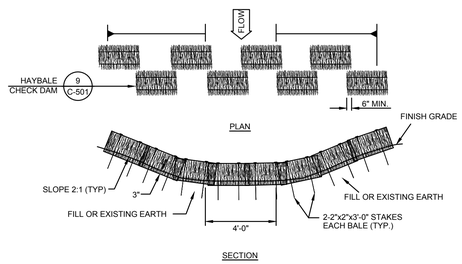


INSTALLATION DETAIL

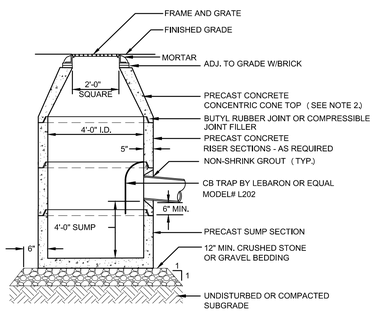
5 SEDIMENT BAG AT CATCH BASIN
N.T.S.



6 TEMPORARY SEDIMENTATION BASIN OUTLET DEVICE
N.T.S.

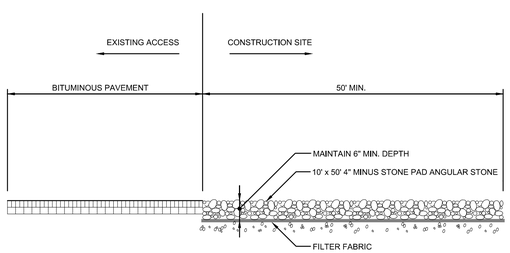


7 TEMPORARY DRAINAGE SWALE WITH HAYBALE EROSION CHECK DAM
N.T.S.

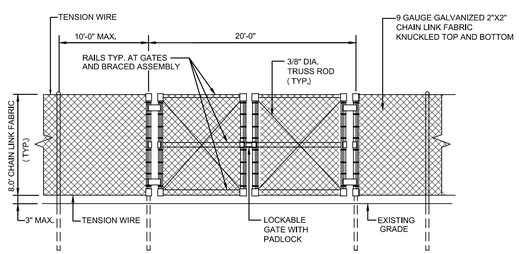


NOTES: 1. STRUCTURE ADEQUATE FOR H-20 LOADING.
2. PROVIDE SLAB TOP WHERE PIPE COVER < 36"

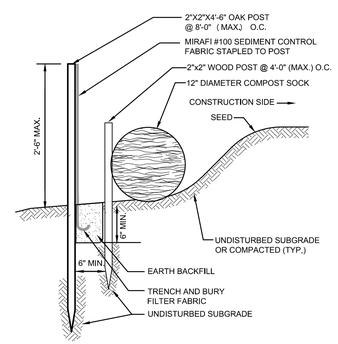
8 PRECAST CONCRETE CATCHBASIN
N.T.S.



1 TEMPORARY CONSTRUCTION ENTRANCE
N.T.S.

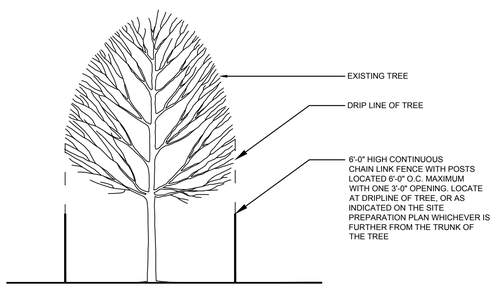


2 TEMPORARY CONSTRUCTION FENCE W/GATE
N.T.S.



NOTE:
INSTALL ACCORDING TO MANUFACTURER'S RECOMMENDATIONS

3 COMPOST SOCK WITH SILT FENCE
N.T.S.



4 TREE PROTECTION DETAIL
N.T.S.

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JOHN J. MURPHY, JR. ELECTRICAL CONSTRUCTION AND ENGINEERING, INC.
379 LIBERTY STREET
ROCKLAND, MA 02370

STAMP

COMMONWEALTH OF MASSACHUSETTS
PETER S. GLICK
CIVIL
No. 41514
REGISTERED PROFESSIONAL ENGINEER

REV	DATE	DESCRIPTION
	12/27/18	ISSUED FOR NOTICE OF INTENT
	12/20/18	ISSUED FOR SITE PLAN REVIEW
	11/28/18	ISSUED FOR DESIGN REVIEW COMMITTEE REVIEW
	11/08/18	ISSUED FOR PRE-APPLICATION MEETING W/PLANNING BOARD

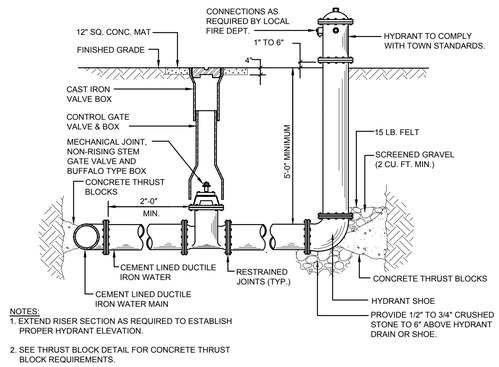
DATE	
SCALE	NTS
DRAWN BY	ACO
CHECKED BY	PSG
PROJECT NO.	18043.00

BUILDING:

SHEET TITLE:

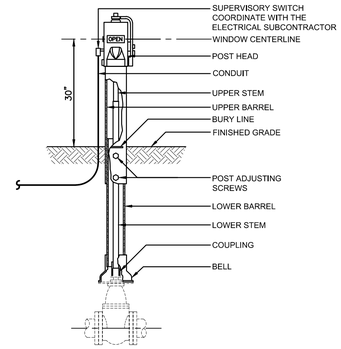
DETAILS I

DRAWING NO.
C-501

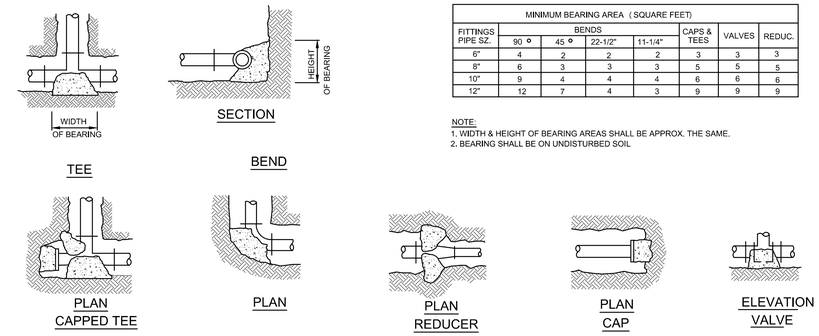


NOTES:
1. EXTEND RISER SECTION AS REQUIRED TO ESTABLISH PROPER HYDRANT ELEVATION.
2. SEE THRUST BLOCK DETAIL FOR CONCRETE THRUST BLOCK REQUIREMENTS.

8 HYDRANT
N.T.S.



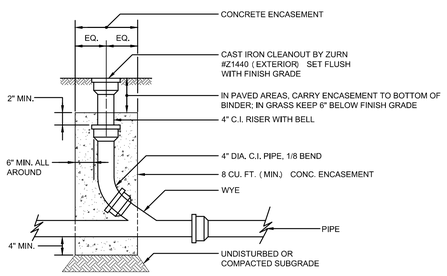
9 POST INDICATOR VALVE
N.T.S.



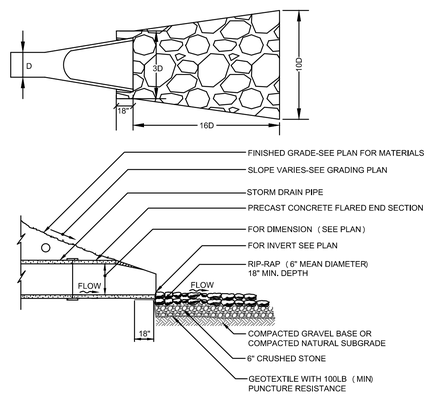
MINIMUM BEARING AREA (SQUARE FEET)							
FITTINGS PIPE SZ.	BENDS				CAPS & TEES	VALVES	REDUC.
	90 °	45 °	22-1/2°	11-1/4°			
6"	4	2	2	2	3	3	3
8"	6	3	3	3	5	5	5
10"	9	4	4	4	6	6	6
12"	12	7	4	3	9	9	9

NOTE:
1. WIDTH & HEIGHT OF BEARING AREAS SHALL BE APPROX. THE SAME.
2. BEARING SHALL BE ON UNDISTURBED SOIL

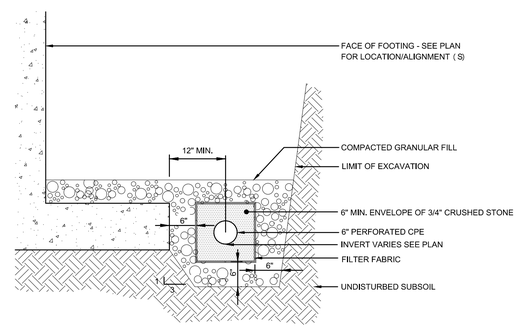
10 THRUST BLOCKS - FORCE MAIN
N.T.S.



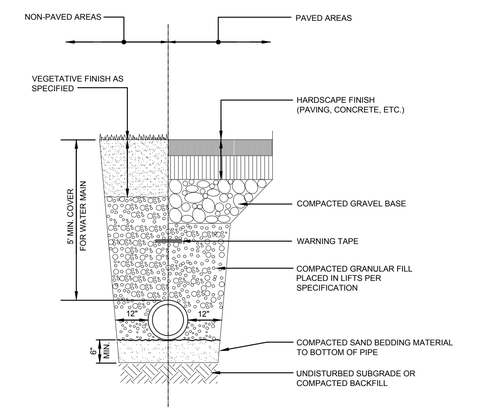
4 CLEANOUT
N.T.S.



5 FLARED END
N.T.S.

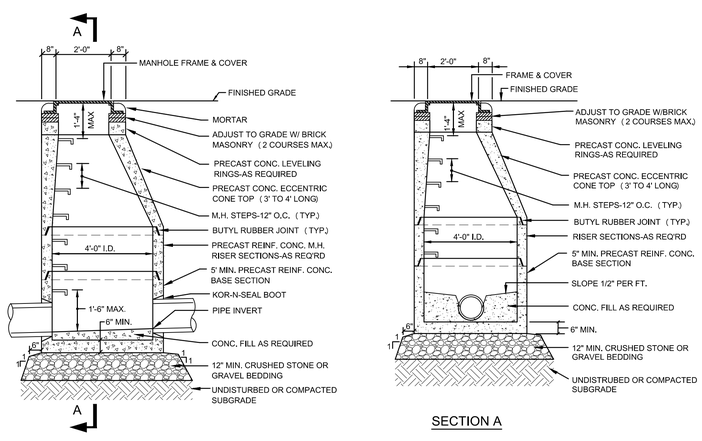


6 FOUNDATION DRAIN
N.T.S.

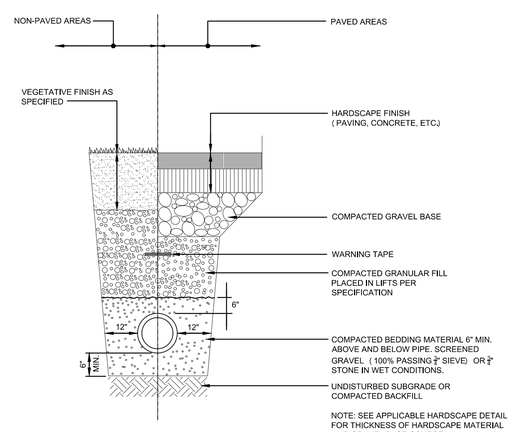


NOTE: SEE APPLICABLE HARDSCAPE DETAIL FOR THICKNESS OF HARDSCAPE MATERIAL AND GRAVEL BASE COURSE.

7 TRENCH SECTION - WATER & ELEC / TELECOM / GAS
N.T.S.

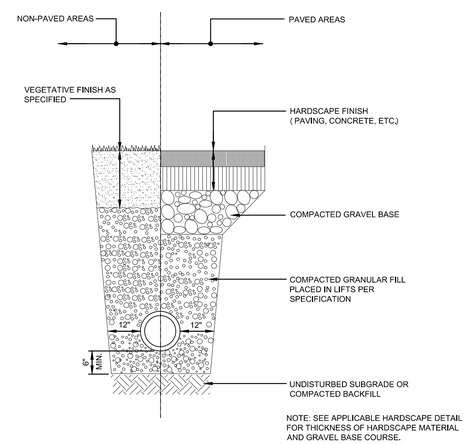


1 STANDARD SEWER MANHOLE
N.T.S.



NOTE: SEE APPLICABLE HARDSCAPE DETAIL FOR THICKNESS OF HARDSCAPE MATERIAL AND GRAVEL BASE COURSE.

2 TRENCH SECTION - SEWER PIPE
N.T.S.



NOTE: SEE APPLICABLE HARDSCAPE DETAIL FOR THICKNESS OF HARDSCAPE MATERIAL AND GRAVEL BASE COURSE.

3 TRENCH SECTION - CPE DRAINS
N.T.S.

TOWN OF MEDWAY

NEW DPW FACILITY

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155 VILLAGE STREET
MEDWAY, MA 02053

ARCHITECT:
HELENE • KARL
Architects, Inc.
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1000 MASSACHUSETTS AVENUE
CAMBRIDGE, MA 02138

STRUCTURAL ENGINEER:
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BUILDING:

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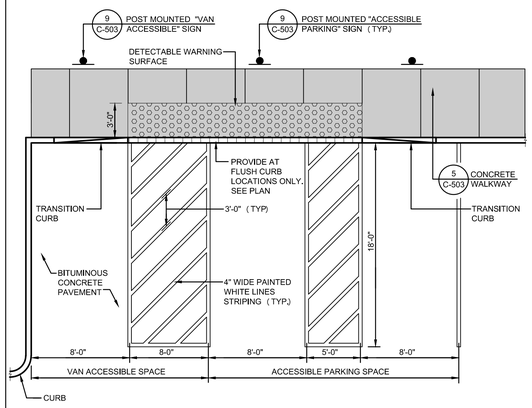
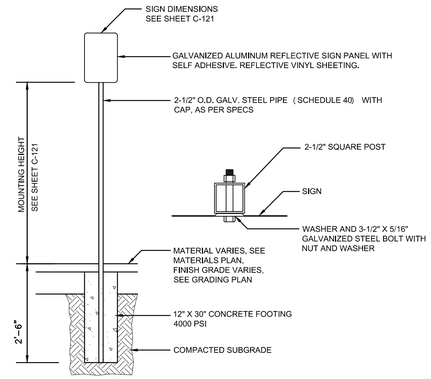
DETAILS II

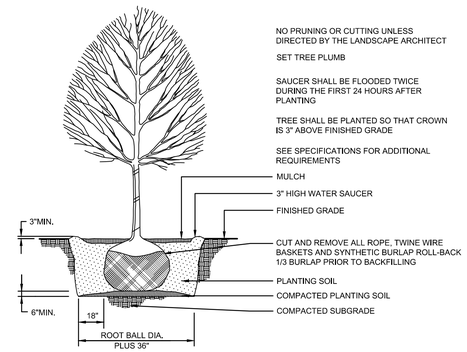
DRAWING NO.
C-502



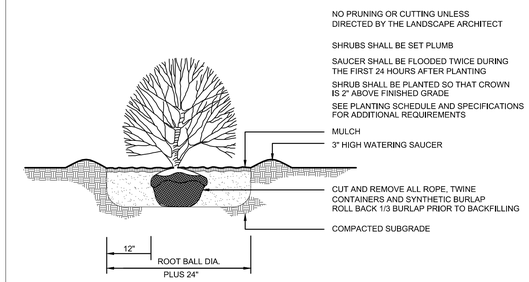
8 ACCESSIBLE PARKING SPACES
N.T.S.



9 PARKING SIGN
N.T.S.

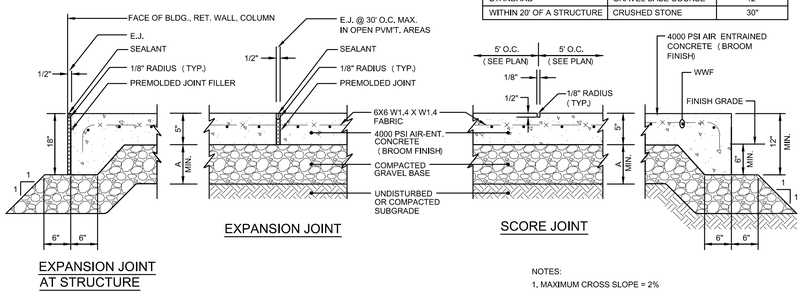


10 DECIDUOUS TREE
N.T.S.



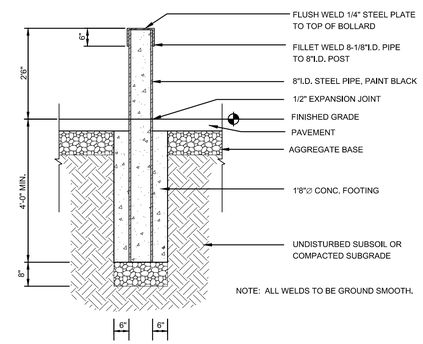
11 SHRUB
N.T.S.

WALKWAY TYPE	BASE COURSE MATERIAL	THICKNESS (A)
STANDARD	GRAVEL BASE COURSE	12"
WITHIN 20' OF A STRUCTURE	CRUSHED STONE	30"



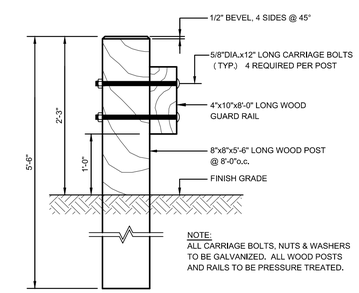
NOTES:
1. MAXIMUM CROSS SLOPE = 2%
2. MAXIMUM GRADIENT = 5%
3. PROVIDE EXPANSION JOINT AT FACE OF ABUTTING SLABS AND STRUCTURES.
4. PROVIDE VERTICAL GRANITE OR PRECAST CONCRETE CURBING PER SHEET C3.

5 CONCRETE WALKWAY
N.T.S.



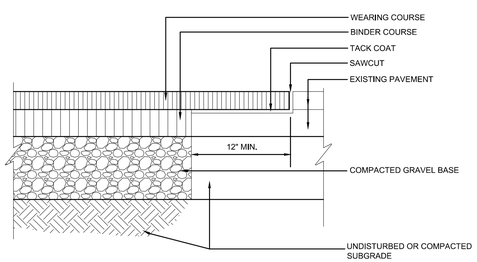
NOTE: ALL WELDS TO BE GROUND SMOOTH.

6 STEEL BOLLARD
N.T.S.



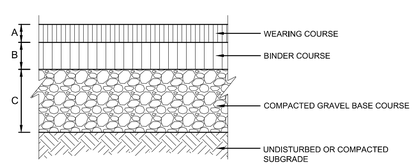
NOTE:
ALL CARRIAGE BOLTS, NUTS & WASHERS TO BE GALVANIZED. ALL WOOD POSTS AND RAILS TO BE PRESSURE TREATED.

7 WOOD GUARDRAIL
N.T.S.



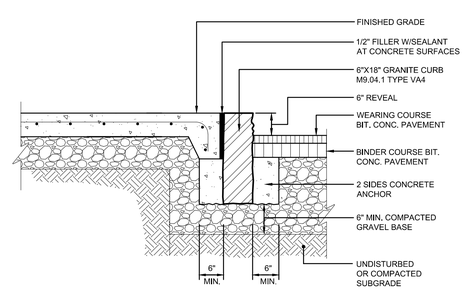
1 BITUMINOUS CONCRETE AT EXISTING PAVEMENT
N.T.S.

	WEARING COURSE "A"	BINDER COURSE "B"	GRAVEL BASE "C"
STANDARD DUTY	1½"	2½"	12"
HEAVY DUTY	2"	2½"	18"



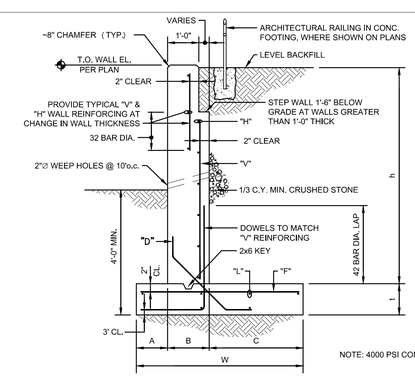
NOTE:
FOR BITUMINOUS CONCRETE SIDEWALK USE 8" OF COMPACTED GRAVEL BASE.

2 BITUMINOUS CONCRETE PAVEMENT
N.T.S.



NOTE:
WHEN VERTICAL GRANITE CURB IS TO BE INSTALLED ADJACENT TO EXISTING PAVEMENT, CONTRACTOR SHALL SAWCUT THE EXISTING PAVEMENT.

3 VERTICAL GRANITE CURB
N.T.S.



NOTE: 4000 PSI CONCRETE

RETAINING WALL TYPE "A"										
DIMENSIONS						REINFORCING				
h	A	B	C	W	t	V	H	F	L	D
6' ≤	8"	1'-0"	2'-6"	4'-2"	1'-0"	#5@12"	#5@10"	#5@12"	5-#5	#4@12"
6' TO 12'	1'-9"	1'-3"	5'-5"	8'-5"	1'-3"	#6@8"	#6@12"	#5@8"	9-#5	#4@8"

NOTE: IN-BETWEEN DIMENSIONS MUST ALWAYS BE ROUNDED UP.

4 CONCRETE RETAINING WALL
N.T.S.

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BUILDING:

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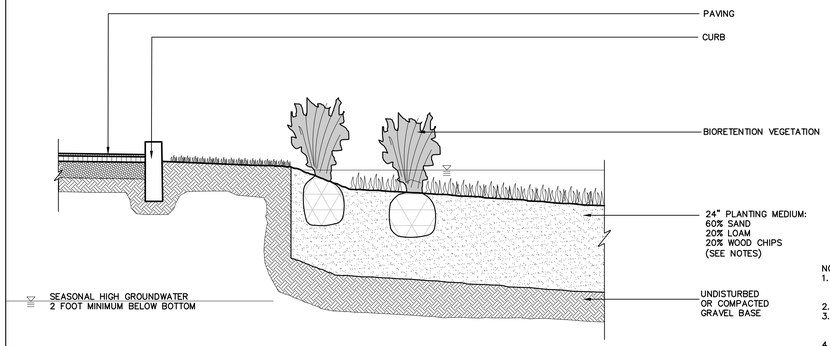
DETAILS III

DRAWING NO.

C-503



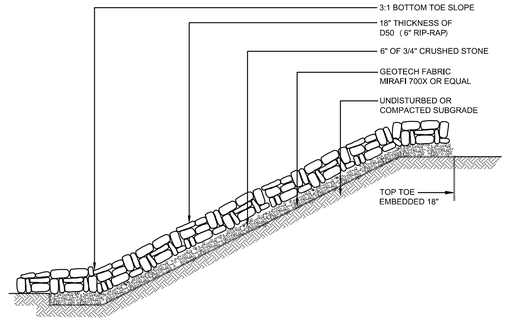
NOTES:

1. THE SOIL MIX MUST BE UNIFORM, FREE OF STONES, STUMPS, ROOTS OR SIMILAR OBJECTS LARGER THAN 2 INCHES. CLAY CONTENT IS NOT TO EXCEED 5%.
2. SOIL pH IS TO BE BETWEEN 5.5 – 6.5.
3. SOILS ARE TO HAVE AN ORGANIC CONTENT OF 1.5% TO 3%. THE MAXIMUM SOLUBLE SALTS IS NOT TO EXCEED 500–PPM.
4. THE SAND COMPONENT IS TO BE GRAVELLY SAND THAT MEETS ASTM D 422

SIEVE SIZE	PERCENT PASSING
2–INCH	100
3/4–INCH	70–100
1/4–INCH	50–80
U.S. NO. 40	15–40
U.S. NO. 200	0–3

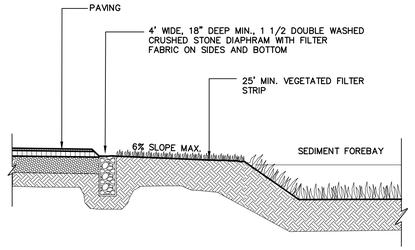
5. TOPSOIL COMPONENT IS TO BE A SANDY LOAM, LOAMY SAND OR LOAM TEXTURE.
6. ON–SITE SOIL MIXING OR PLACEMENT IS NOT ALLOWED IF SOIL IS SATURATED OR SUBJECT TO WATER WITHIN 48 HOURS. COVER AND STORE SOIL TO PREVENT WETTING OR SATURATION.
7. PLANT WITH GRASS–WETLAND MIX.
8. INSTALL FILTER FABRIC ON SIDES OF MEDIUM.

6 BIORETENTION CELL TYPICAL SECTION
N.T.S.

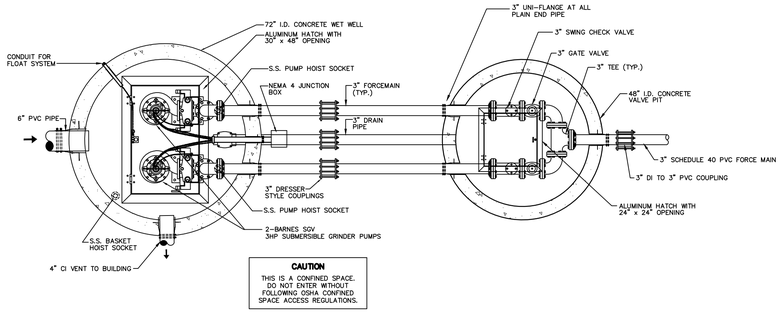


7 DUMPED RIP RAP SLOPE
N.T.S.

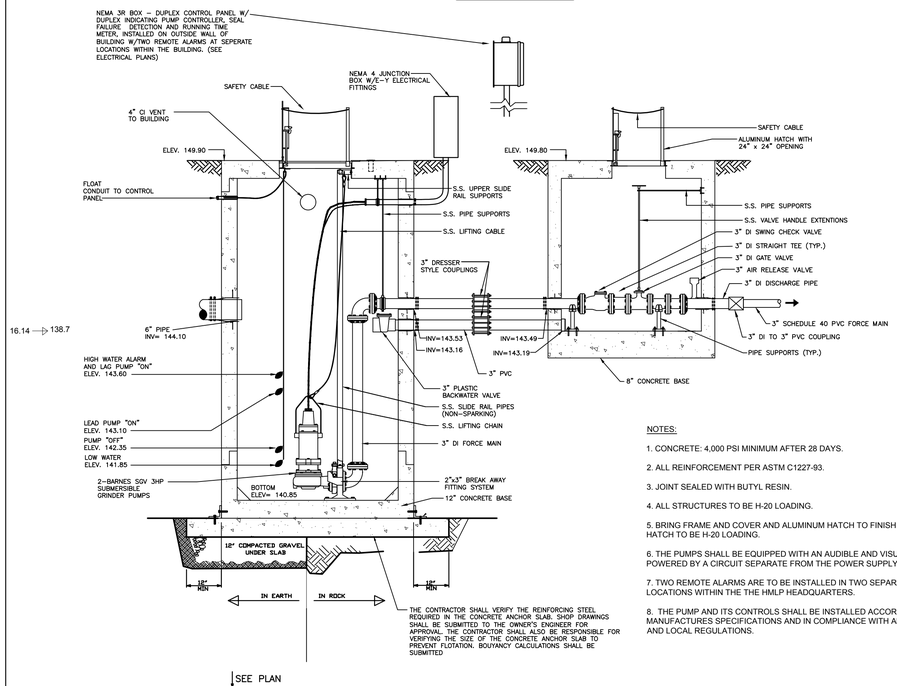
NOTE: FOR SLOPES GREATER THAN 2:1 TO MAXIMUM 1:1



8 SECTION THROUGH FILTER STRIP AT SEDIMENT FOREBAY
N.T.S.



CAUTION
THIS IS A CONFINED SPACE.
DO NOT ENTER WITHOUT
FOLLOWING OSHA CONFINED
SPACE ACCESS REGULATIONS.



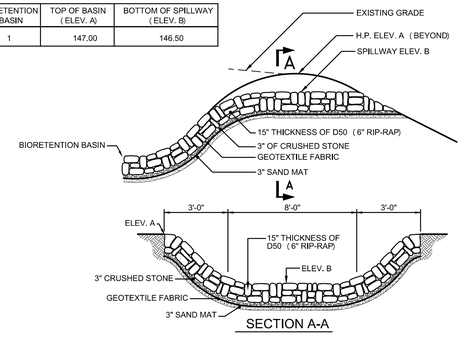
THE CONTRACTOR SHALL VERIFY THE REINFORCING STEEL REQUIRED IN THE CONCRETE ANCHOR SLAB. SHOP DRAWINGS SHALL BE SUBMITTED TO THE OWNER'S ENGINEER FOR APPROVAL. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR VERIFYING THE SIZE OF THE CONCRETE ANCHOR SLAB TO PREVENT FLOTATION. BOUYANCY CALCULATIONS SHALL BE SUBMITTED

NOTES:

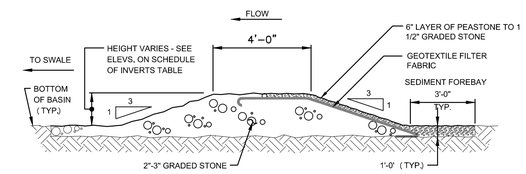
1. CONCRETE: 4,000 PSI MINIMUM AFTER 28 DAYS.
2. ALL REINFORCEMENT PER ASTM C1227-93.
3. JOINT SEALED WITH BUTYL RESIN.
4. ALL STRUCTURES TO BE H-20 LOADING.
5. BRING FRAME AND COVER AND ALUMINUM HATCH TO FINISH GRADE. HATCH TO BE H-20 LOADING.
6. THE PUMPS SHALL BE EQUIPPED WITH AN AUDIBLE AND VISUAL ALARM, POWERED BY A CIRCUIT SEPARATE FROM THE POWER SUPPLY.
7. TWO REMOTE ALARMS ARE TO BE INSTALLED IN TWO SEPARATE LOCATIONS WITHIN THE THE HMLP HEADQUARTERS.
8. THE PUMP AND ITS CONTROLS SHALL BE INSTALLED ACCORDING TO MANUFACTURES SPECIFICATIONS AND IN COMPLIANCE WITH ALL STATE AND LOCAL REGULATIONS.

1 PUMP CHAMBER WITH VALVE PIT
N.T.S.

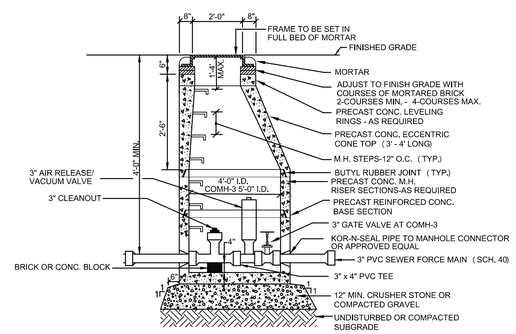
BIORETENTION BASIN	TOP OF BASIN (ELEV. A)	BOTTOM OF SPILLWAY (ELEV. B)
1	147.00	146.50



4 BIORETENTION BASIN SPILLWAY OUTLET
N.T.S.

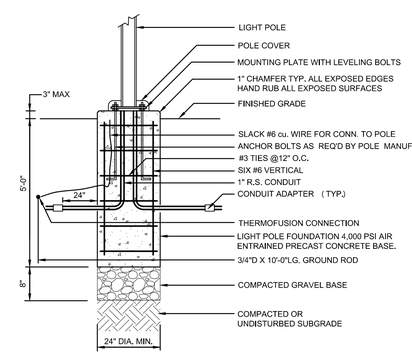


5 SECTION THROUGH FILTER BERM
N.T.S.



NOTE:
1. STRUCTURE ADEQUATE FOR H-20 LOADING

2 CLEAN OUT SEWER MANHOLE
N.T.S.



3 LIGHTPOLE BASE IN LAWN AREAS
N.T.S.

THE TOWN OF MEDWAY · MASSACHUSETTS · INCORPORATED · OCT · 25 · 1713

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NEW DPW FACILITY

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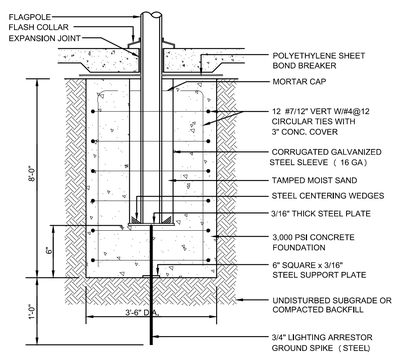
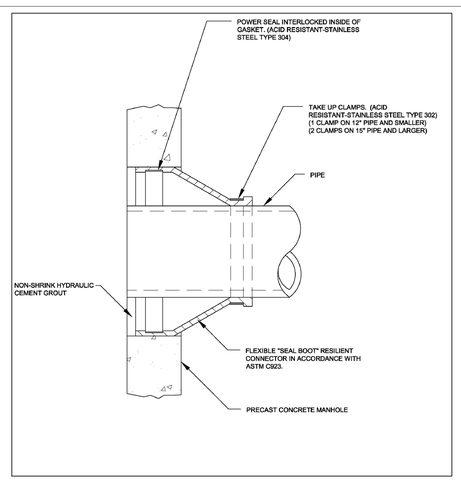
DETAILS IV

DRAWING NO.

C-504



5 FLAGPLOLE FOUNDATION
N.T.S.



1 MANHOLE SEAL
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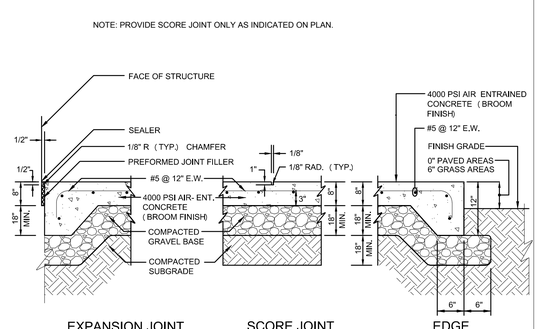

2 CONCRETE EQUIPMENT PAD
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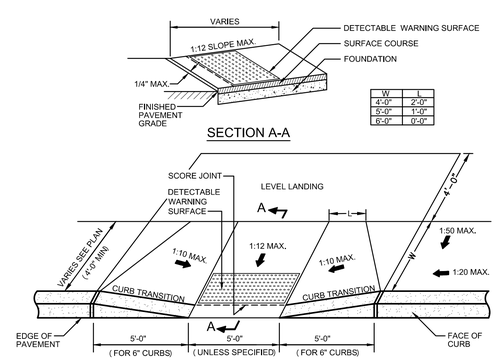
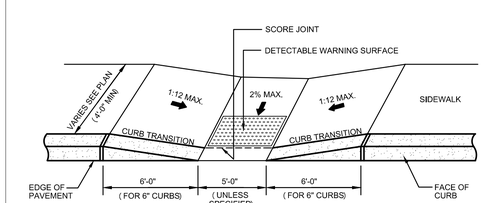


W	L
4'-0"	2'-0"
5'-0"	1'-0"
6'-0"	0'-0"

3 ACCESSIBLE CURB CUT (TYPE 1)
N.T.S.



4 ACCESSIBLE CURB CUT (TYPE 2)
N.T.S.

TOWN OF MEDWAY

NEW DPW FACILITY

OWNER:
TOWN OF MEDWAY
155 VILLAGE STREET
MEDWAY, MA 02053

ARCHITECT:
HELENE • KARL
Architects, Inc.
61 Skyfields Drive, Groton, Massachusetts 01450

CIVIL ENGINEER:
SYMMES, MAINI & McKEE ASSOCIATES
1000 MASSACHUSETTS AVENUE
CAMBRIDGE, MA 02138

STRUCTURAL ENGINEER:
SYMMES, MAINI & McKEE ASSOCIATES
1000 MASSACHUSETTS AVENUE
CAMBRIDGE, MA 02138

MECHANICAL ENGINEER:
SEAMAN ENGINEERING CORP.
22 WEST STREET, UNIT C
MILLBURY, MA 01527

ELECTRICAL ENGINEER:
JOHN J. MURPHY, JR. ELECTRICAL CONSTRUCTION AND ENGINEERING, INC.
379 LIBERTY STREET
ROCKLAND, MA 02370

STAMP

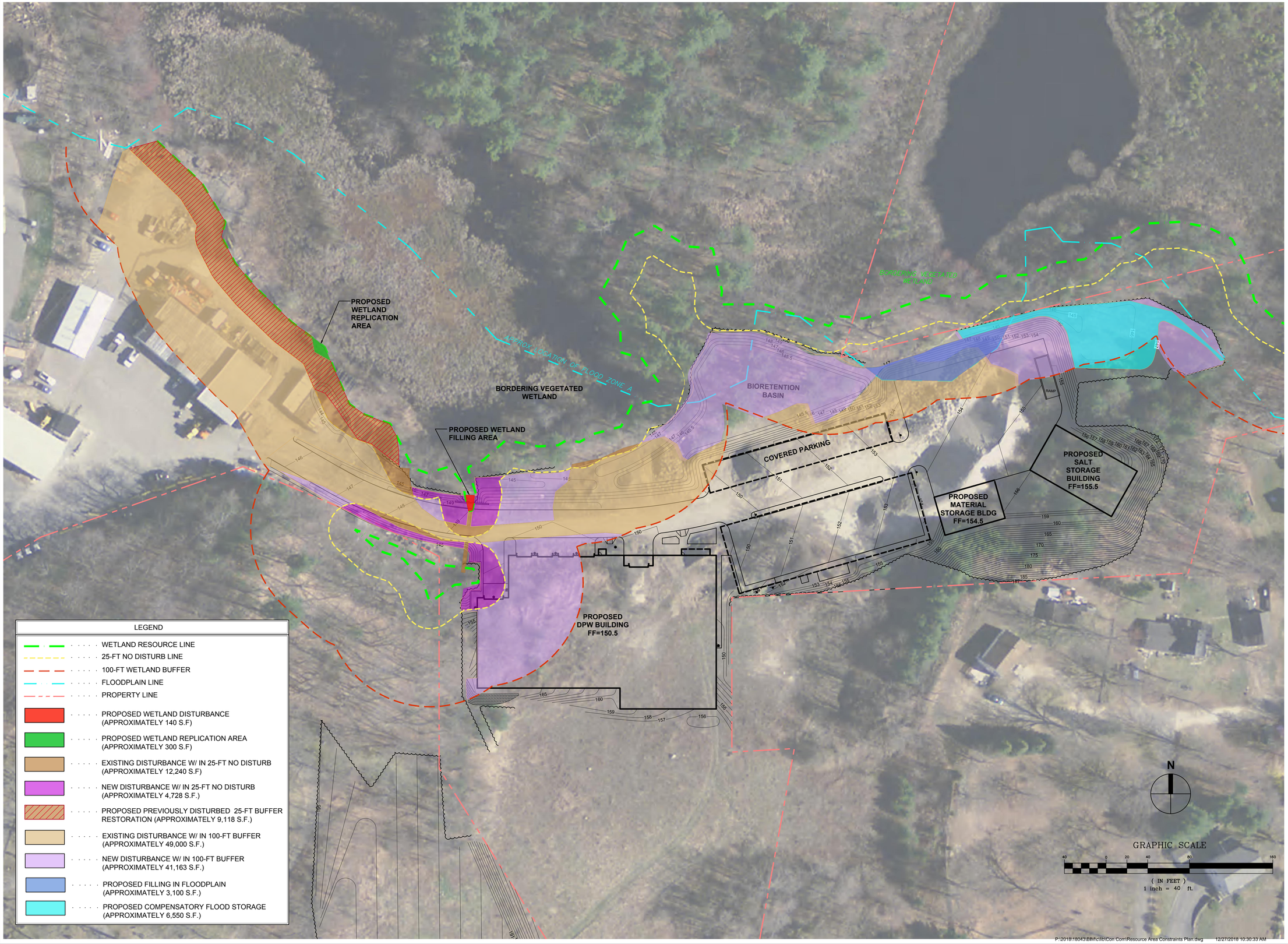
REV	DATE	DESCRIPTION
	12/27/18	ISSUED FOR NOTICE OF INTENT
	12/20/18	ISSUED FOR SITE PLAN REVIEW
	11/28/18	ISSUED FOR DESIGN REVIEW COMMITTEE REVIEW
	11/08/18	ISSUED FOR PRE-APPLICATION MEETING W/PLANNING BOARD

DATE	
SCALE	NTS
DRAWN BY	ACO
CHECKED BY	PSG
PROJECT NO.	18043.00

BUILDING:

SHEET TITLE:
DETAILS V

DRAWING NO.
C-505



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TOWN OF MEDWAY

NEW DPW FACILITY

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ROCKLAND, MA 02370

STAMP

COMMONWEALTH OF MASSACHUSETTS
PETER S. GLICK
CIVIL
No. 41514
REGISTERED PROFESSIONAL ENGINEER

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	11/08/18	ISSUED FOR PRE-APPLICATION MEETING W/PLANNING BOARD

DATE	
SCALE	1" = 40'
DRAWN BY	ACO
CHECKED BY	PSG
PROJECT NO.	18043.00

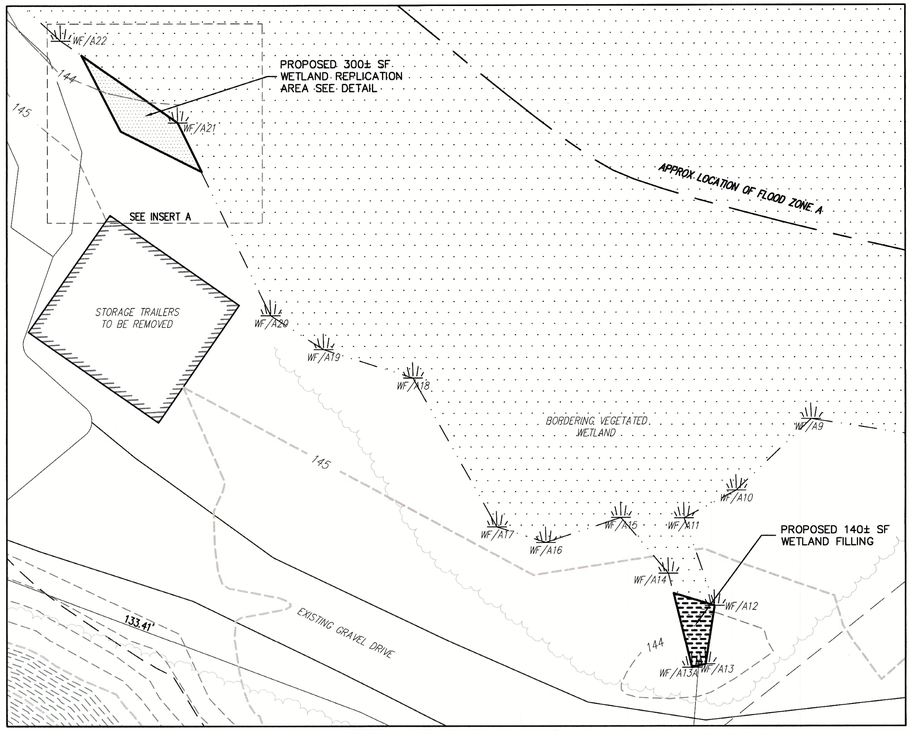
BUILDING:

SHEET TITLE:

RESOURCE AREA PLAN

DRAWING NO.

RA-1



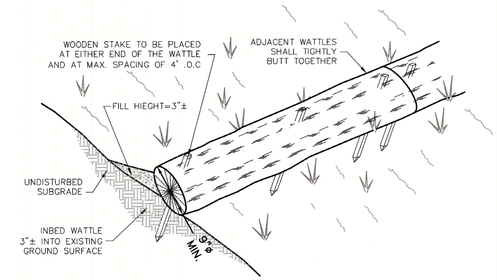
WETLAND REPLICATION

SCALE 1"=10'

WETLAND PLANTING SCHEDULE:

SYMBOL:		COMMON NAME:	BOTANICAL NAME:	SIZE:	SPACING:	QUANTITY:
+	AR	RED MAPLE	ACER RUBRUM	#1 CONTAINER 3-4' HEIGHT	AS SHOWN	1
+	VC	HIGHBUSH BLUEBERRY	VACCINIUM CORYMBOSUM	#1 CONTAINER 18-24" HEIGHT	AS SHOWN	2
✶	OC	CINNAMON FERN	OSMUNDA CINNAMOMEA	#1 CONTAINER	AS SHOWN	11
+	CS	RED-OSIER DOGWOOD	CORNUS STOLONIFERA	#1 CONTAINER 18-24" HEIGHT	AS SHOWN	7
+	PS	WHITE PINE	PINUS STROBUS	#1 CONTAINER 3-4' HEIGHT	AS SHOWN	4
+	VA	LOWBUSH BLUEBERRY	VACCINIUM ANGUSTIFOLIUM	#1 CONTAINER 12-18" HEIGHT	AS SHOWN	9

NOTE: THE ENTIRE REPLICATION AREA WILL BE SEEDED WITH "NEW ENGLAND WET MIX" (WETLAND SEED MIX) AT AN APPLICATION RATE OF 1 LB/2500 S.F.
SEEDING:
THE MIX MAY BE APPLIED BY MECHANICAL SPREADER, OR BY HAND. WHEN APPLYING ON BARE SOIL, RAKE THE SOIL TO CREATE GROOVES, APPLY SEED, THEN LIGHTLY RAKE OVER. IN NEW ENGLAND, THE BEST RESULTS ARE OBTAINED WITH AN EARLY SPRING SEEDING. SUMMER SEEDING CAN BE SUCCESSFUL WITH A LIGHT MULCHING OF WEED FREE STRAW TO CONSERVE MOISTURE. LATE FALL AND WINTER DORMANT SEEDING REQUIRE A SLIGHT INCREASE IN THE SEEING RATE. FERTILIZATION IS NOT REQUIRED UNLESS THE SOIL IS PARTICULARLY INFERTILE.

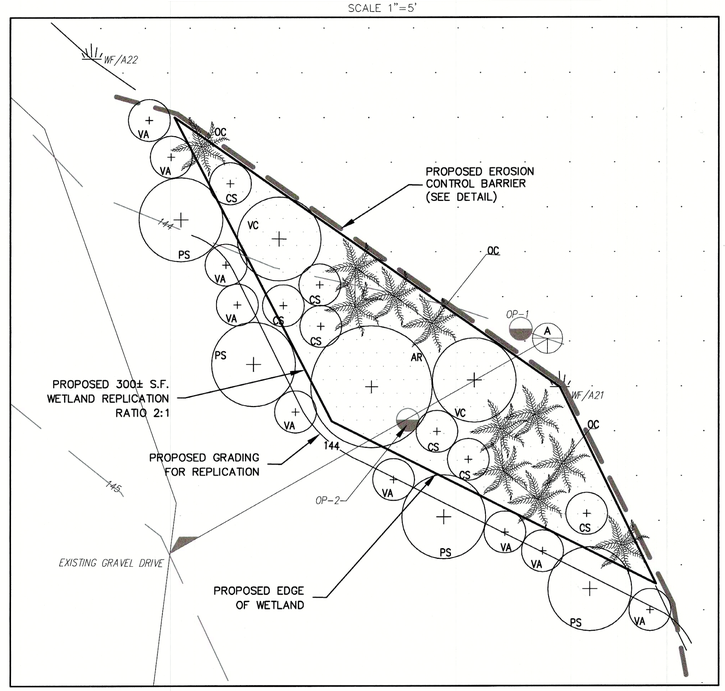


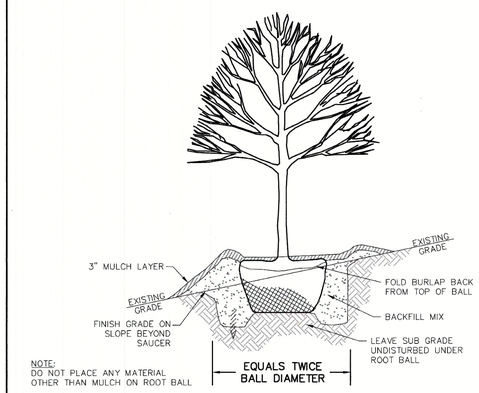
STRAW WATTLE

NOT TO SCALE

INSERT A - WETLAND REPLICATION DETAIL

SCALE 1"=5'





TREE PLANTING DETAIL

NOT TO SCALE

WETLAND REPLICATION NOTES:

A. GENERAL NOTES

1. WETLAND AREAS SHALL BE STAKED, FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD PRIOR TO CONSTRUCTION.
2. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY DISTURBANCE ON SITE.
3. AREAS WHICH ARE NOT TO BE DISTURBED SHALL BE CLEARLY MARKED BY FLAGS, SIGNS, ETC. RETAIN EXISTING VEGETATION WHERE FEASIBLE.
4. CONTRACTOR TO EXCAVATE TOP 12-INCHES OF SOIL FROM THE WETLAND AREAS TO BE DISTURBED AND STOCKPILE FOR TRANSLOCATION.
5. OVER-EXCAVATE FINAL WETLAND RESTORATION AREA BY 12-INCHES AND PLACE STOCKPILED SOIL FOR RESTORATION.
6. CONTRACTOR TO PROVIDE ADDITIONAL ORGANIC WETLAND SOIL AS NEEDED TO ACHIEVE 12-INCH SOIL THICKNESS WITHIN THE PROPOSED WETLAND RESTORATION AREAS.
7. SEED THE ENTIRE AREA WITH NEW ENGLAND WETLAND MIX.

B. SPECIFICATIONS

1. REPLICATION AREAS SHALL BE STAKED PRIOR TO CONSTRUCTION. NOTIFY THE MEDWAY CONSERVATION COMMISSION FOR INSPECTION AFTER STAKING AND PRIOR TO CONSTRUCTION.
2. EXISTING TREES WITHIN THE REPLICATION AREA TO BE MAINTAINED. GRADE AROUND ROOTS TO CREATE HUMMOCKS.
3. ALL CONSTRUCTION AND EXCAVATED MATERIAL SHALL BE STORED OUTSIDE OF THE RESOURCE AREA AND 100' BUFFER ZONE THERE TO IF POSSIBLE.
4. PRIOR TO CONSTRUCTION CONTRACTOR SHALL PLACE SIGN CONTAINING DEP FILE NUMBER VISIBLE FROM THE STREET.
5. CONTRACTOR SHALL PLACE EROSION AND SEDIMENTATION CONTROL BARRIER AS SHOWN HEREON PRIOR TO CONSTRUCTION. NOTIFY MEDWAY CONSERVATION COMMISSION FOR INSPECTION AFTER INSTALLATION AND PRIOR TO CONSTRUCTION.
6. CONTRACTOR SHALL NOTIFY WETLAND SPECIALIST AFTER TO STAKING AND PLACEMENT OF EROSION CONTROL BARRIERS. WETLAND SPECIALIST TO ESTABLISH PHOTOMETRIC REFERENCE POINTS AT THIS TIME.
7. CONTRACTOR TO EXCAVATE ALL REPLICATION AREAS PRIOR TO EXCAVATING WITHIN THE EXISTING WETLAND FILL AREAS. EXCAVATE ALL REPLICATION AREA TO 12" BELOW FINAL FINISHED GRADES AS SHOWN HEREON. DE-WATER EXCAVATIONS AS REQUIRED.
8. WETLAND SOIL SHALL BE TRANSLOCATED WHEN POSSIBLE. SOILS TO BE USED AT THE REPLICATION SITE SHOULD BE USED IMMEDIATELY IF POSSIBLE OR STOCKPILED FOR AS LITTLE TIME AS POSSIBLE. WHILE STOCKPILED, THE SOILS SHOULD BE KEPT WET AND NOT BE ALLOWED TO DRY OUT. THE METHOD FOR MAINTAINING THE APPROPRIATE MOISTURE LEVEL SHOULD BE DOCUMENTED BY CONTRACTOR AND SUBMITTED TO THE PROJECT ENGINEER. CONTAMINATION OF THESE SOILS SHOULD BE PREVENTED. TRUCKS THAT HAVE PREVIOUSLY BEEN ON OTHER SITES SHOULD BE WASHED PRIOR TO INTRODUCTION TO THE REPLICATION SITE SO THAT MUD/DIRT WITH EXOTIC/INVASIVE SEEDS IS NOT INADVERTENTLY BROUGHT TO THE REPLICATION SITE.
9. PLACE TRANSLOCATED SOIL TO 12" DEPTH IN NEW REPLICATIONS AREAS TO FINAL FINISHED GRADES AS SHOWN HEREON.
10. CONTRACTOR TO PROVIDE ADDITIONAL WETLAND SOIL AS REQUIRED TO ACHIEVE THE 12" MINIMUM DEPTH IN THE REPLICATION AREAS. SUPPLEMENTAL SOIL SHALL CONSIST OF EQUAL VOLUMES OF A GOOD QUALITY LOAM AND WELL COMPOSTED ORGANIC MATERIAL. THE LOAM AND COMPOST SHOULD BE FREE OF LARGE STONES AND DEBRIS. CONTRACTOR TO FURNISH CONSERVATION COMMISSION WITH THE SOURCE OF OFF SITE SOIL ADDITIVES.
11. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE WETLAND SPECIALIST TO INSPECT THE WETLAND AREAS FOR THE PRESENCE OF INVASIVE SPECIES. INVASIVE SPECIES SHALL BE REMOVED PRIOR TO CONSTRUCTION.
12. CONTRACTOR TO PLACE TRANSLOCATED SOIL WITH SIMILAR DENSITY AS OBSERVED WITHIN THE EXISTING WETLAND AREA.
13. ALL PLANTING SHOULD OCCUR AT THE BEGINNING OR END OF THE GROWING SEASON UNLESS A WATERING PLAN IS SUBMITTED AND APPROVED BY THE COMMISSION. FALL PLANTINGS SHOULD BE DONE BEFORE THE FIRST FROST. SHRUBS SHALL BE PLANTED IN ACCORDANCE WITH PLANTINGS SHOWN ON PLAN. REFER TO PLANTING DETAIL FOR TREES AND SHRUBS. SEED MIXTURES SHALL BE SOWN IN ACCORDANCE WITH NURSERY SPECIFICATIONS. EXISTING TREES SHALL BE EXCAVATED AROUND IN A MANNER TO MINIMIZE ROOT DAMAGE WHERE APPLICABLE. STABILIZED CANOPY FROM EXISTING TREES WILL FURTHER ENHANCE THE SUCCESS OF NEW PLANTINGS. NEW ENGLAND WET MIX SHALL BE SPREAD THROUGHOUT THE REPLICATION AREAS IN ACCORDANCE WITH NURSERY SPECIFICATIONS. UPON COMPLETION OF PLANTINGS REPLICATION AREAS SHALL BE COVERED WITH CLEAN STRAW HAY AND WATERED.

C. OVERSIGHT/MONITORING

THE PROJECT SUPERVISOR OR MONITOR SHOULD BE PRESENT DURING THE MOST IMPORTANT TASKS IN REPLICATION CONSTRUCTION AS DESCRIBED BELOW.

1. INSPECT SITE FLAGGING BEFORE EXCAVATION OR EROSION CONTROL INSTALLATION BEGINS.
2. DURING EXCAVATION OF THE ALTERED AREA IF VEGETATION IS TO BE TRANSLOCATED TO THE REPLICATION AREA TO ENSURE SURVIVAL OF THE PLANTINGS.
3. BEFORE SOIL TRANSLOCATION OR ADDITION INTO THE REPLICATION AREA TO INSPECT EXCAVATED ELEVATIONS AND LIKELY POST-CONSTRUCTION GROUND WATER ELEVATIONS FOR THE REPLICATION AREA.
4. AFTER EACH STAGE OF GRADING WORK IS COMPLETED TO INSPECT FINISHED ELEVATIONS.
5. DURING PLANTING AND SEEDING AND AFTER THE FIRST MONTH OF THE GROWING SEASON TO INSPECT PROPAGATION TECHNIQUES.
6. AFTER ONE GROWING SEASON TO OBSERVE VEGETATION DEVELOPMENT AND REGULATORY COMPLIANCE.
7. AFTER TWO GROWING SEASONS TO DETERMINE VEGETATION DEVELOPMENT AND REGULATORY COMPLIANCE.
8. AFTER SUBSEQUENT GROWING SEASONS, IF A GREATER THAN 2-YEAR MONITORING PROGRAM IS REQUIRED.
9. MONITORING SHALL BE PERFORMED IN ACCORDANCE WITH THE MEDWAY WETLAND REGULATIONS.
10. PLANTS SHALL BE REPLACED AS NECESSARY TO ENSURE A 75% SURVIVAL RATE.
11. EROSION CONTROLS SHALL BE REMOVED PRIOR TO ISSUANCE OF A CERTIFICATE OF COMPLIANCE.

D. EROSION CONTROL SPECIFICATIONS

1. WORK SHALL BE PERFORMED DURING A DRY PERIOD.
2. PLACE EROSION CONTROL BARRIER (SILT FENCE ONLY AROUND REPLICATION AREAS) PER THE DETAIL ON THIS PLAN PRIOR TO CONSTRUCTION. NOTIFY THE MEDWAY CONSERVATION COMMISSION AFTER INSTALLATION FOR INSPECTION.
3. RESTORE ALL SLOPES IMMEDIATELY UPGRADIENT TO REPLICATION AREAS.

SOIL OBSERVATION PLOT DATA

EXISTING WETLAND

OBSERVATION PLOT NUMBER: OP-1
DATE OF DELINEATION: 12/17/2018
SURFACE ELEVATION: 144.0

DEPTH: (IN.)	SOIL HOR.	MATRIX COLOR:	REDOX FEATURES: DEPTH/COLOR/%	SOIL TEXTURE:
0-12"	Ap	10YR 3/1		SL
12-20"	Bw1	10YR 5/1		

GROUND WATER OBSERVED AT 9" ELEV. 143.25

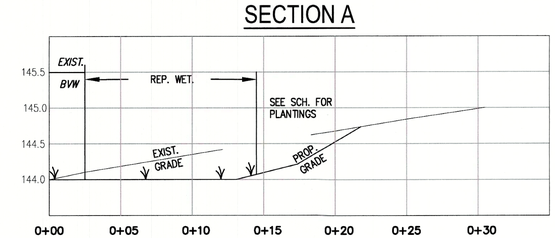
PROPOSED WETLAND

OBSERVATION PLOT NUMBER: OP-2
DATE OF DELINEATION: 12/17/2018
SURFACE ELEVATION: 144.5

DEPTH: (IN.)	SOIL HOR.	MATRIX COLOR:	REDOX FEATURES:	SOIL TEXTURE:
0-12"	FILL	10YR 5/6		SL
12-18"	Ap	10YR 3/3	REDOX @ 16"	SL

E.S.H.G.W. AT 16" ELEV. 143.2

SECTION A



THE TOWN OF MEDWAY · MASSACHUSETTS · INCORPORATED OCT 25 1713

TOWN OF MEDWAY

NEW DPW FACILITY

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MEDWAY, MA 02053

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ROCKLAND, MA 02370

WETLAND SCIENTIST
DUCHARME & DILLIS
CIVIL DESIGN GROUP, INC.
1092 MAIN STREET
BOLTON, MA 01740

STAMP

COMMONWEALTH OF MASSACHUSETTS · GREGORY S. ROY · REGISTERED PROFESSIONAL ENGINEER
12/20/18

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SCALE	AS NOTED
DRAWN BY	ACO
CHECKED BY	PSG
PROJECT NO.	18043.00

BUILDING:

SHEET TITLE:
WETLAND REPLICATION PLAN

DRAWING NO.
WR-1