

FACILITIES MASTER PLAN - ENABLING PROJECTS

ELECTRIC BOAT CORPORATION, SOUTH YARD · GROTON · CONNECTICUT
SEWER PUMP CHAMBER, BLDG 154 LOADING AREA, REFUELING STATION, CENTRAL
WASTE FACILITY AND DEMOLITION

JUNE 5, 2018; REVISED AUGUST 17, 2018

PREPARED BY



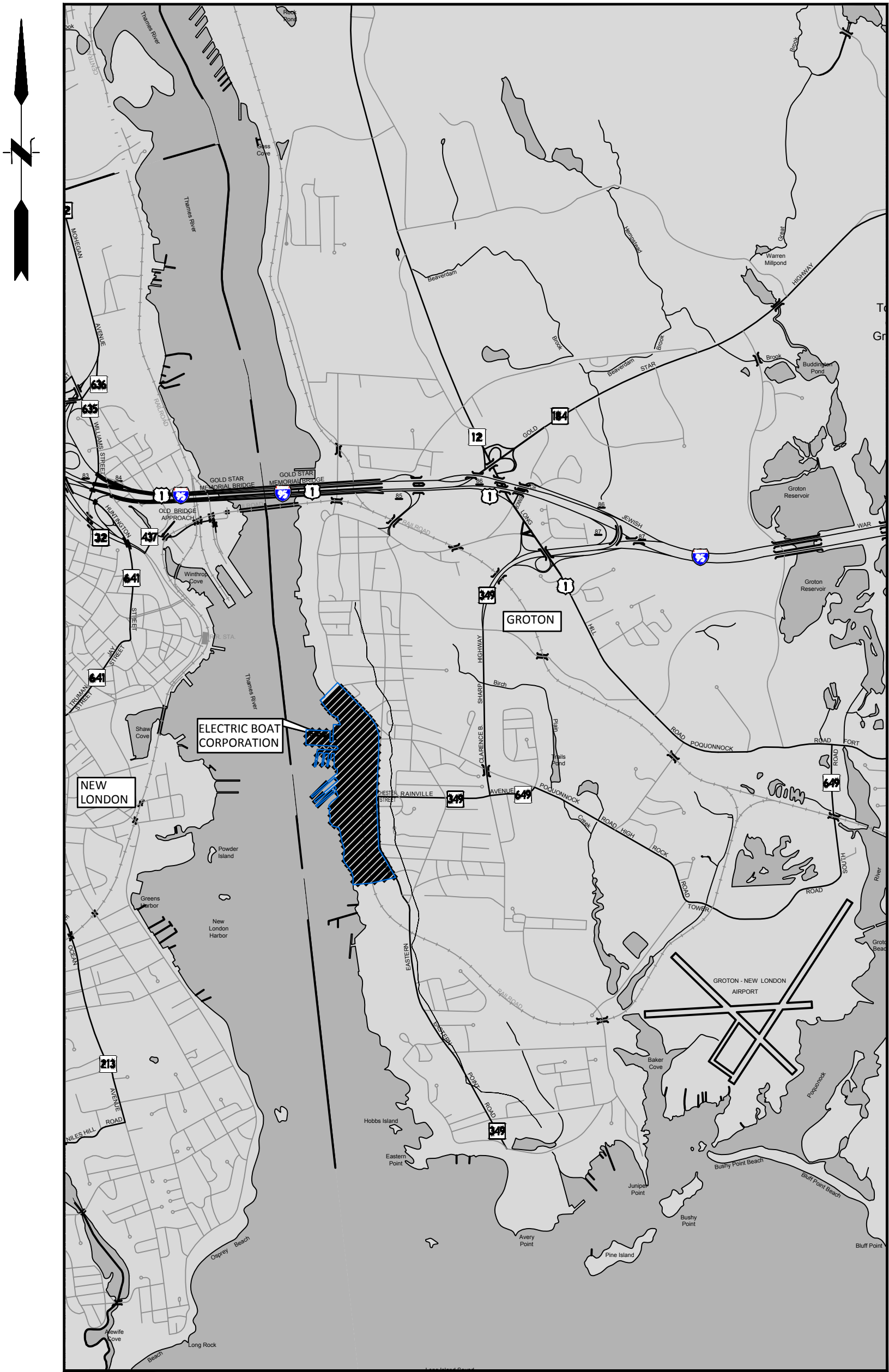
FUSS & O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
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www.fando.com

PREPARED FOR

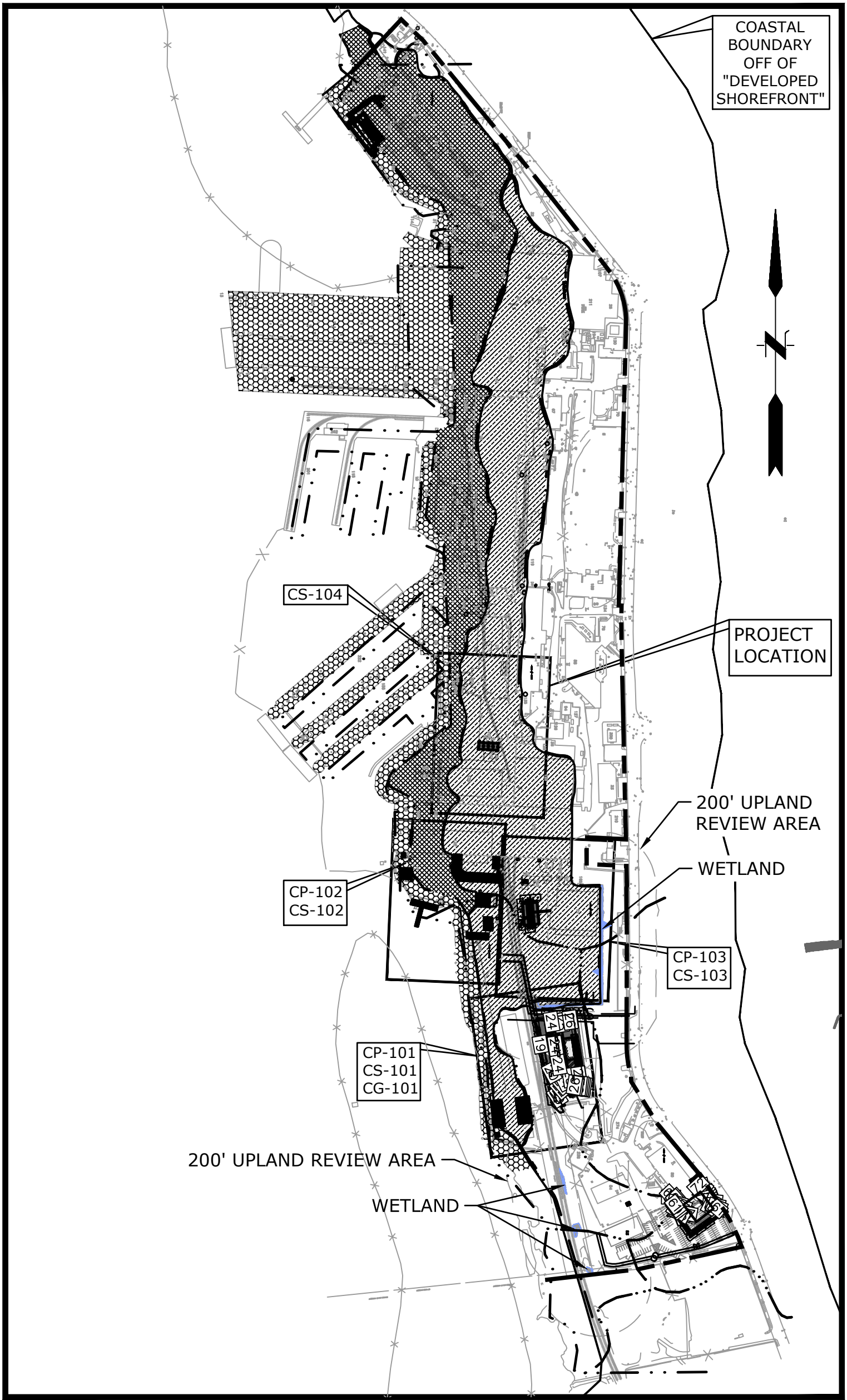
ELECTRIC BOAT CORPORATION
75 EASTERN POINT ROAD
GROTON, CT

SHEET INDEX

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PROPERTY LOCATION MAP
SCALE: 1" = 2500'



PROJECT LOCATION MAP
SCALE: 1" = 400'

NOT FOR CONSTRUCTION

PROJ. No.: 1997570.A11
DATE: JUNE 2018

GI-001

1. THE DEMOLITION PLANS PROVIDED FOR INFORMATION ONLY AND MAY NOT INDICATE ALL ITEMS REQUIRED TO BE DEMOLISHED. ALL ITEMS ARE TO REMAIN UNLESS OTHERWISE INDICATED.
2. SITE UNDERGROUND UTILITIES AND STRUCTURES HAVE BEEN LOCATED PRIMARILY FROM INFORMATION FURNISHED BY OTHERS AND THE LOCATIONS AS DEPICTED ON THE DRAWINGS ARE CONSIDERED APPROXIMATE AS TO SIZE AND LOCATION. THERE MAY BE ADDITIONAL UNDERGROUND UTILITY AND STRUCTURES THAT ARE NOT SHOWN ON THE DRAWINGS, AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO EMPLOY THE SERVICES OF A PROFESSIONAL UNDERGROUND UTILITY LOCATION SERVICE TO IDENTIFY AND LOCATE ALL EXISTING UTILITY AND STRUCTURES, AND TO PROTECT THEM FROM DAMAGE.
3. PERFORM A PRE-BID SITE INSPECTION. COORDINATE DEMOLITION OF UNIDENTIFIED UTILITIES OR STRUCTURES WITH OWNER. DEMOLISH STRUCTURES, SITE IMPROVEMENTS, UTILITIES, ETC. AS REQUIRED TO CONSTRUCT PROPOSED FACILITY AND UTILITY SERVICES. THE CONTRACTOR IS TO COORDINATE WITH THE OWNER THE REMOVAL AND RELOCATION OF ITEMS THAT ARE THE OWNER'S RESPONSIBILITY (I.E. PHONE LINE EQUIPMENT, SECURITY LINES, COMPUTER LINES, FILES, FURNITURE, ETC.).
4. ALL WORK SHALL COMPLY WITH LOCAL BUILDING CODE REQUIREMENTS AND REGULATIONS.
5. ALL DEMOLITION AND REMOVAL WORK SHALL BE COMPLETED AS INDICATED, NOTED AND AS SPECIFIED HEREIN.
6. THE AREA SHALL AT ALL TIMES BE LEFT FUNCTIONAL AND OPERATIONAL.
7. THE CONTRACTOR SHALL COORDINATE DEMOLITION WORK SO AS TO MINIMIZE THE DISTURBANCE OF THE OWNER AND THE OWNER'S IMMEDIATE NEIGHBORS.
8. PRIOR TO THE DEMOLITION OF THESE ITEMS WHICH HAVE UTILITY CONNECTIONS (WATER, GAS, ELECTRICITY, STEAM, ETC.), THE CONTRACTOR SHALL ARRANGE WITH THE OWNER TO LOCATE SHUTOFF VALVES, PANEL BOXES, AND OTHER CONTROL ELEMENTS, SO THAT WATER DAMAGE AND OTHER POTENTIALLY DANGEROUS SITUATIONS ARE AVOIDED.
9. BEFORE STARTING WORK, MAKE A THOROUGH EXAMINATION OF THOSE PORTIONS OF THE STRUCTURE IN WHICH THE WORK IS TO BE PERFORMED. CHECK ALL THE WORK ADJOINING OR AT UNDERLYING LOCATION. REPORT TO THE ENGINEER ANY AND ALL CONDITIONS WHICH MAY INTERFERE WITH OR OTHERWISE AFFECT OR PREVENT THE PROPER EXECUTION AND COMPLETION OF THE WORK. DO NOT START THE WORK UNTIL SUCH CONDITIONS HAVE BEEN EXAMINED AND A COURSE OF ACTION IS MUTUALLY AGREED UPON.
10. PRIOR TO THE START OF THE DEMOLITION, THE CONTRACTOR SHALL CALL TO THE ATTENTION OF THE ENGINEER ANY DAMAGE, CRACKS OR OTHER IMPERFECTIONS IN THE WORK ADJACENT TO THE DEMOLITION AREAS.
11. BEFORE STARTING DEMOLITION OPERATIONS, PROVIDE THE NECESSARY PROTECTIVE DEVICES, WHERE REQUIRED, AND IN STRICT ACCORDANCE WITH GOVERNING RULES AND REGULATIONS.
12. EXECUTE THE DEMOLITION IN A CAREFUL AND ORDERLY MANNER WITH THE LEAST POSSIBLE DISTURBANCE TO THE PUBLIC.
13. TAKE NECESSARY PRECAUTIONS TO PREVENT DUST AND DIRT FROM RISING BY WETTING DEMOLISHED DEBRIS. EXCESSIVE USE OF WATER WILL NOT BE PERMITTED.
14. KEEP ALL ADJOINING PUBLIC AREAS CLEAN DURING WORKING HOURS, AND MAKE AN EFFORT TO PROVIDE SAFE CONDITIONS FOR THE GENERAL PUBLIC AND WORKMEN.
15. REMOVE AND DISPOSE OF EXISTING UTILITIES, FOUNDATIONS AND UNSUITABLE MATERIAL BENEATH AND FOR A DISTANCE OF 10 FEET BEYOND THE PROPOSED BUILDING FOOTPRINT INCLUDING EXTERIOR COLUMNS, UNLESS OTHERWISE NOTED.
16. DEMOLISHED MATERIALS, UNLESS OTHERWISE NOTED, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OFF THE SITE, ON A REGULAR BASIS, IN A LEGAL MANNER.
17. ERECT, MAINTAIN, AND WHEN NO LONGER NECESSARY, REMOVE PROTECTIVE BARRIERS, LIGHTING AND/OR SIGNAGE TO PROTECT THE PUBLIC AND WORKMEN.
18. REPAIR AND/OR REPLACE EXISTING ITEMS NOT SCHEDULED OR NOTED TO BE DEMOLISHED, AND NOT SPECIFIED TO BE REMOVED, BUT WHICH BECOME DAMAGED DURING THE PROGRESS OF THE WORK. MAKE ANY AND ALL SUCH REPAIRS, REPLACEMENTS AND MODIFICATIONS TO RESTORE THE DAMAGED ITEMS TO THEIR ORIGINAL CONDITIONS AT THE TIME OF THE DAMAGE, TO THE SATISFACTION OF AND AT NO ADDITIONAL COST TO THE OWNER.
19. PATCH, FILL AND REPAIR ALL SURFACES DISTURBED, CUT, DAMAGED, IN NEED OF OR MADE IMPERFECT BY ALTERATIONS OR REMOVAL WORK AND AS REQUIRED TO PREPARE FOR NEW MATERIALS AND ARRANGEMENTS.
20. EXISTING SITE UTILITIES SHALL BE ABANDONED IN PLACE & CUT AND CAPPED.

1. EXISTING CONDITION: "DIGITAL PHOTOGRAMMETRIC AND UTILITY MAPPING" PROPERTY OF ELECTRIC BOAT CORPORATION EASTERN POINT ROAD AND THAMES STREET, GROTON, CONNECTICUT, PREPARED BY LOUREIRO ENGINEERING ASSOCIATES, INC., DATED: 09/29/2018.
2. PROPOSED: ELECTRIC BOAT CORPORATION, FACILITIES AND PLANT ENGINEERING SITE PLANS, DATED MARCH, 2018

1. WETLAND DISTURBANCE AREA: 0 SQ. FT.
2. DISTURBANCE AREA:
200' UPLAND REGULATED AREA: APPROX. 24,944 SQ. FT.
3. SOIL CLASSIFICATION IN AREA SHOWN IS IDENTIFIED ON PLAN.
4. PORTIONS OF WORK TO BE PERFORMED IS WITHIN THE 200' REGULATED AREA.
5. PROPOSED WORK WILL INCLUDE DEMOLITION OF EXISTING BUILDINGS, AND CONSTRUCTION OF NEW BUILDINGS. ALL DISTURBED AREA WILL BE RESTORED IN KIND.
6. INSTALL SEDIMENT CONTROL AT ALL CATCH BASINS DOWN STREAM FROM DISTURBANCE.
7. ALL CONSTRUCTION DEBRIS WILL BE REMOVED FROM SITE.
8. ONE LANE TRAFFIC WILL BE MAINTAINED AT ALL TIMES.
9. ACCESS TO ALL PARKING AREAS WILL BE MAINTAINED AT ALL TIMES.

1. PROVIDE PROPER TRANSITIONS BETWEEN EXISTING AND PROPOSED SITE IMPROVEMENTS. FIELD VERIFY EXISTING PAVEMENT AND GROUND ELEVATIONS AT THE INTERFACE WITH PROPOSED PAVEMENTS AND DRAINAGE STRUCTURES BEFORE START OF CONSTRUCTION.
2. PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION, FIELD VERIFY PROPOSED UTILITY ROUTES AND IDENTIFY ANY INTERFERENCES OR OBSTRUCTIONS WITH EXISTING UTILITIES OR PUBLIC RIGHTS-OF-WAY.
3. IMMEDIATELY INFORM THE ENGINEER IN WRITING IF EXISTING UTILITY CONDITIONS CONFLICT OR DIFFER FROM THAT INDICATED AND IF THE WORK CANNOT BE COMPLETED AS INDICATED.
4. DIMENSIONS ARE FROM FACE OF CURB, FACE OF BUILDING, FACE OF WALL, AND CENTER LINE OF PAVEMENT MARKINGS, UNLESS NOTED OTHERWISE.
5. BOUNDS OR MONUMENTATION DISTURBED DURING CONSTRUCTION SHALL BE SET OR RESET BY A PROFESSIONAL LICENSED SURVEYOR.

1. NOTIFY UTILITY LOCATOR SERVICE AT LEAST 72 HOURS BEFORE STARTING EXCAVATION.
"CALL BEFORE YOU DIG" AT 1-800-922-4455.
2. STOP WORK IN THE VICINITY OF SUSPECTED CONTAMINATED SOIL, GROUNDWATER OR OTHER MEDIA. IMMEDIATELY NOTIFY THE OWNER SO THAT APPROPRIATE TESTING AND SUBSEQUENT ACTION CAN BE TAKEN. RESUME WORK IN THE IMMEDIATE VICINITY ONLY UPON DIRECTION BY THE OWNER.
3. WITHIN THE LIMITS OF THE BUILDING FOOTPRINT, PERFORM EARTHWORK OPERATIONS TO SUBGRADE ELEVATIONS. SEE DRAWINGS BY OTHERS FOR WORK ABOVE SUBGRADE.

1. TERMINATE EXISTING UTILITIES IN CONFORMANCE WITH LOCAL, STATE AND FEDERAL UTILITY COMPANY STANDARD SPECIFICATIONS AND GENERAL NOTES. COORDINATE UTILITY SERVICE DISCONNECTS WITH UTILITY REPRESENTATIVES.
2. THE TYPE, SIZE AND LOCATION OF DEPICTED UNDERGROUND UTILITIES ARE APPROXIMATE REPRESENTATIONS OF INFORMATION OBTAINED FROM FIELD LOCATIONS OF VISIBLE FEATURES, EXISTING MAPS AND PLANS OF RECORD, UTILITY MAPPING, AND OTHER SOURCES OF INFORMATION OBTAINED BY THE ENGINEER. ASSUME NO GUARANTEE AS TO THE COMPLETENESS, SERVICEABILITY, EXISTENCE, OR ACCURACY OF UNDERGROUND FACILITIES. FIELD VERIFY THE EXACT LOCATIONS, SIZES, AND ELEVATIONS OF THE POINTS OF CONNECTIONS TO EXISTING UTILITIES.
3. COORDINATE THE WORK AND WORK SCHEDULE WITH UTILITY COMPANIES. PROVIDE ADEQUATE NOTICE TO UTILITIES TO PREVENT DELAYS IN CONSTRUCTION.
4. INTERIOR DIAMETERS OF STORM DRAIN AND SANITARY SEWER STRUCTURES SHALL BE DETERMINED BY THE PRECAST MANUFACTURER, BASED ON THE INDICATED PIPE SYSTEM LAYOUT AND LOCAL MUNICIPAL STANDARDS.

MINIMUM INTERIOR DIAMETERS:
0 TO 20 FEET DEEP; 4 FEET.
20 FEET OR GREATER; 5 FEET.
5. RIM ELEVATIONS FOR MANHOLES, VALVE COVERS, GATE AND PULL BOXES, AND OTHER STRUCTURES ARE APPROXIMATE. SET OR RESET RIM ELEVATIONS AS FOLLOWS:

IN PAVEMENTS AND CONCRETE SURFACES: FLUSH
IN SURFACES ALONG ACCESSIBLE ROUTES: FLUSH
IN LANDSCAPE, SEEDED, AND OTHER EARTH SURFACE AREAS:
1 INCH ABOVE SURROUNDING AREA; TAPER EARTH TO RIM ELEVATION.
6. INSTALL PROPOSED PRIVATE UTILITY SERVICES ACCORDING TO THE REQUIREMENTS PROVIDED BY, AND APPROVED BY THE AUTHORITY HAVING JURISDICTION (WATER, SEWER, GAS, TELEPHONE, ELECTRIC, FIRE ALARM, ETC.). COORDINATE FINAL DESIGN LOADS AND LOCATIONS WITH OWNER'S REPRESENTATIVE.

AT A MINIMUM, CONSTRUCT ACCESSIBLE ROUTES, PARKING SPACES, RAMPS, SIDEWALKS AND WALKWAYS IN CONFORMANCE WITH THE FEDERAL AMERICANS WITH DISABILITIES ACT AND WITH STATE AND LOCAL LAWS AND REGULATIONS (WHICHEVER ARE MORE STRINGENT).

PROVIDE 6 INCHES OF TOPSOIL AND SEED TO AREAS DISTURBED DURING CONSTRUCTION AND NOT DESIGNATED TO BE RESTORED WITH IMPERVIOUS SURFACES (BUILDINGS, PAVEMENTS, WALKS, ETC.) UNLESS OTHERWISE NOTED.

REPAIR DAMAGES RESULTING FROM CONSTRUCTION LOADS, AT NO ADDITIONAL COST TO OWNER.

RESTORE AREAS DISTURBED BY CONSTRUCTION OPERATIONS TO THEIR ORIGINAL CONDITION OR BETTER, AT NO ADDITIONAL COST TO OWNER.

1. SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND ARE NOT NECESSARILY SHOWN ON THE DRAWINGS TO SCALE OR TO THEIR ACTUAL DIMENSION OR LOCATION. COORDINATE DETAIL SHEET DIMENSIONS, MANUFACTURERS' LITERATURE, SHOP DRAWINGS AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT FEATURES.
2. DO NOT RELY SOLELY ON ELECTRONIC VERSIONS OF DRAWINGS, SPECIFICATIONS, AND DATA FILES THAT ARE PROVIDED BY THE ENGINEER. FIELD VERIFY LOCATION OF PROJECT FEATURES.
3. PERFORM NECESSARY CONSTRUCTION NOTIFICATIONS, APPLY FOR AND OBTAIN NECESSARY PERMITS, PAY FEES AND POST BONDS ASSOCIATED WITH THE WORK AS REQUIRED BY THE CONTRACT DOCUMENTS.
4. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS OF BUILDINGS AND ADJACENT SITE ELEMENTS INCLUDING SIDEWALKS, RAMPS, BUILDING ENTRANCES, STAIRWAYS, UTILITY PENETRATIONS, CONCRETE DOOR PADS, COMPACTOR PAD, LOADING DOCKS, BOLLARDS, ETC.
5. TOPOGRAPHIC ELEVATIONS ARE BASED ON SURVEY PROVIDED, TO FUSS & O'NEILL AS INDICATED IN MAP REFERENCES.
6. WETLANDS WERE DELINEATED BY STANTEC ON AUGUST 28, 2017.

1. DO NOT CLOSE OR OBSTRUCT ROADWAYS, SIDEWALKS, FIRE HYDRANTS, AND UTILITIES WITHOUT APPROPRIATE PERMITS.

1. WITHIN LOCAL RIGHTS-OF-WAY, PERFORM THE WORK IN ACCORDANCE WITH LOCAL MUNICIPAL STANDARDS.
2. WITHIN STATE RIGHTS-OF-WAY, PERFORM THE WORK IN ACCORDANCE WITH THE LATEST EDITION OF THE DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS AND ISSUED REVISIONS/SUPPLEMENTS.
3. PROVIDE TRAFFIC SIGNAGE AND PAVEMENT MARKINGS IN CONFORMANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
4. BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. PERFORM CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL REQUIREMENTS.
5. DISPOSE OF DEMOLITION DEBRIS IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS, ORDINANCES AND STATUTES.
6. THIS PROJECT DISTURBS MORE THAN ONE ACRE, AND LESS THAN 5 ACRES OF LAND, AND IS LOCALLY APPROVABLE, THEREFORE FALLS WITHIN THE SMALL CONSTRUCTION CATEGORY OF THE CT DEEP STORMWATER AND DEWATERING WASTEWATER FROM CONSTRUCTION ACTIVITIES GENERAL PERMIT PROCESS. AS A RESULT, APPLICATION AND/OR REGISTRATION FOR THIS PERMIT FOR THIS PROJECT IS NOT REQUIRED. THIS INFORMATION IS BASED ON THE CURRENT PERMIT ISSUED IN 2013.

1. INSTALL EROSION CONTROL MEASURES PRIOR TO STARTING ANY WORK ON THE SITE. REFER TO THE EROSION AND SEDIMENT CONTROL DRAWINGS.
2. IMPLEMENT ALL NECESSARY MEASURES REQUIRED TO CONTROL STORMWATER RUNOFF, DUST, SEDIMENT, AND DEBRIS FROM EXITING THE SITE. PERFORM CORRECTIVE ACTION AS NEEDED FOR EROSION CLEANUP AND REPAIRS TO OFF SITE AREAS, IF ANY, AT NO COST TO OWNER.
3. INSPECT AND MAINTAIN EROSION CONTROL MEASURES PER THE SCHEDULE IN THE EROSION AND SEDIMENT CONTROL DRAWINGS. DISPOSE OF SEDIMENT IN AN UPLAND AREA. DO NOT ENCUMBER OTHER DRAINAGE STRUCTURES AND PROTECTED AREAS.
4. PERFORM CONSTRUCTION SEQUENCING IN SUCH A MANNER TO CONTROL EROSION AND TO MINIMIZE THE TIME THAT EARTH MATERIALS ARE EXPOSED BEFORE THEY ARE COVERED, SEEDDED, OR OTHERWISE STABILIZED.
5. UPON COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER, REMOVE AND DISPOSE OF TEMPORARY EROSION CONTROL MEASURES. CLEAN SEDIMENT AND DEBRIS FROM TEMPORARY MEASURES AND FROM PERMANENT STORM DRAIN AND SANITARY SEWER SYSTEMS.

1. REMOVE AND DISPOSE OF EXISTING UTILITIES, FOUNDATIONS AND UNSUITABLE MATERIAL BENEATH AND FOR A DISTANCE OF 10 FEET BEYOND THE PROPOSED BUILDING FOOTPRINT INCLUDING EXTERIOR COLUMNS, UNLESS OTHERWISE NOTED.
2. THE DEMOLITION PLAN IS PROVIDED FOR INFORMATION ONLY AND MAY NOT INDICATE ALL ITEMS REQUIRED TO BE DEMOLISHED. PERFORM A PRE-BID SITE INSPECTION, COORDINATE DEMOLITION OF UNIDENTIFIED UTILITIES OR STRUCTURES WITH OWNER, DEMISH STRUCTURES, SITE IMPROVEMENTS, UTILITIES, ETC. AS REQUIRED TO CONSTRUCT PROPOSED TO CONSTRUCT PROPOSED FACILITY AND UTILITY SERVICES.

Division of Construction Services

Office of the State Building Inspector

August 18, 2017

Mr. Paul Williams
Electric Boat
75 Eastern Point Road
Groton, CT 06340

RE: M-916-17 [75 Eastern Point Road, Groton]

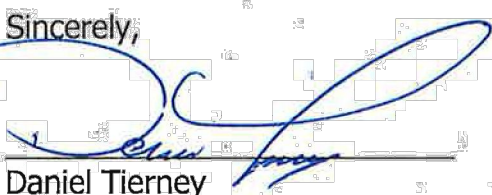
Dear Mr. Williams:

I have reviewed the referenced request for modification to utilize the 2016 State Building Code for the submitted "Facilities Master Plan".

It is my decision to **approve** this modification, as requested, to utilize the approved language of the referenced section of the 2016 State Building Code for the listed construction projects that make up the "master plan" – with the stipulation that all the building permit applications shall be applied for within 5 years of the date of this letter.

If you have any questions, please contact me at (860) 713-5900.

Sincerely,



Daniel Tierney
Deputy State Building Inspector

DT:bags

c: Carlton Smith, City of Groton Building Official
Terry Brouwer, Fire & Life Safety Supervisor

450 Columbus Blvd, Room 1303

Hartford, CT 06103

Phone: (860) 713-5900 Fax: (860) 713-7900 www.ct.gov/dcs

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GEN-01

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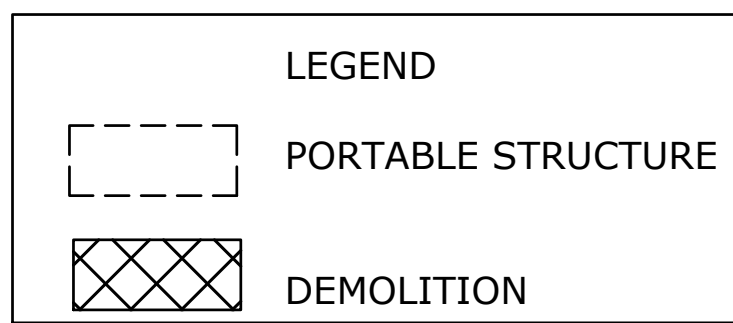
GROTON
SOUTH YARD
ENABLING PROJECTS
CONNECTICUT
FACILITIES MASTER PLAN - ENABLING PROJECTS

PROJ. No.: 1997570.A11
DATE: JUNE 5, 2018



LAYER STATE:

CP-101





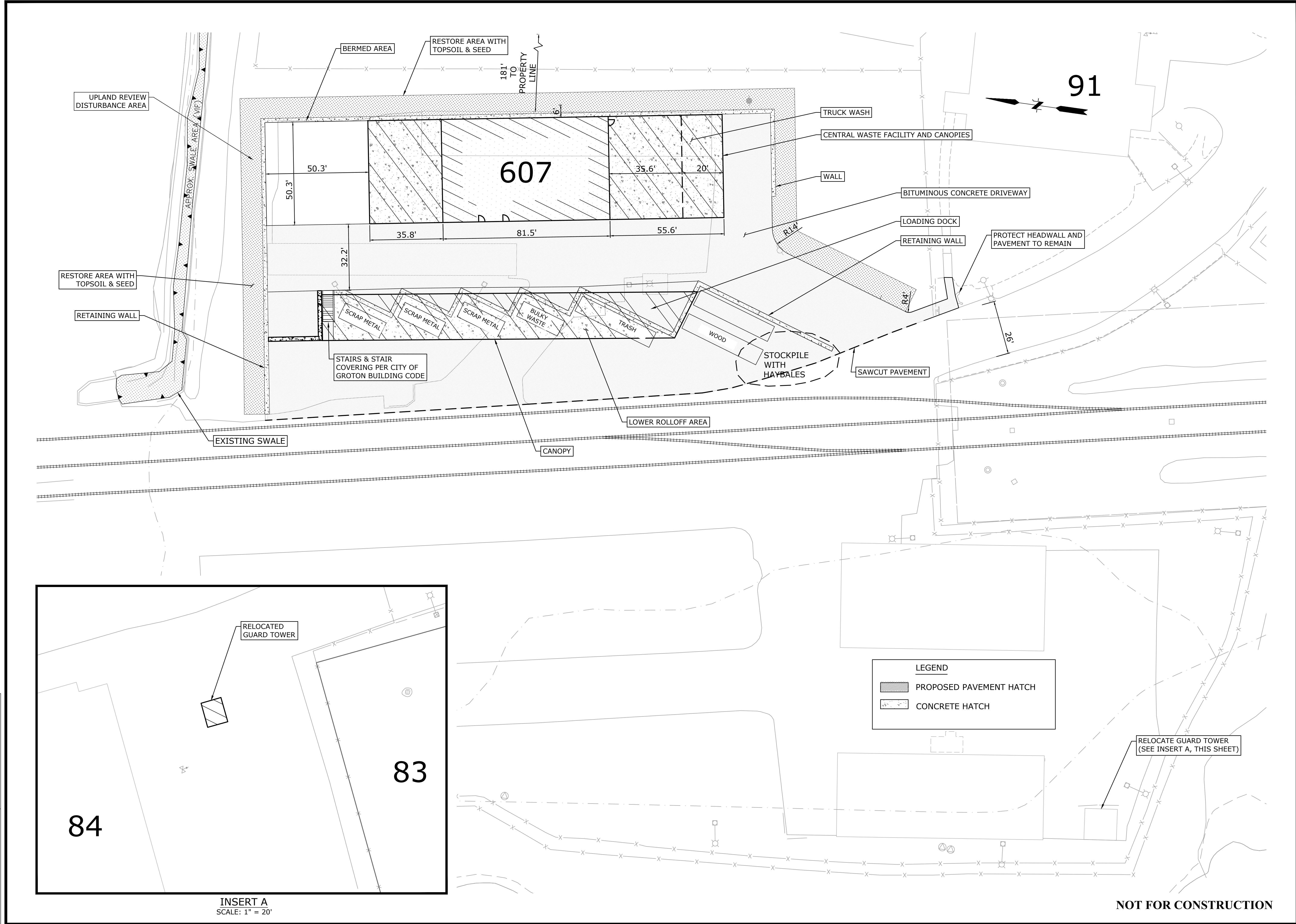
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PROJ. No.: 1997570.A11
DATE: JUNE 5, 2018

CP-103

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FACILITIES MASTER PLAN - ENABLING PROJECTS		GROTON	
SITE LAYOUT PLAN		SOUTH YARD	
ENABLING PROJECTS		CONNECTICUT	
PROJ. No.: 1997570.A11		DATE: JUNE 5, 2018	
CS-101		DESIGNER REVIEWER	
No.		DATE	
1		8/17/2018	
STAFF COMMENTS		DESCRIPTION	
LMM		KS	

SCALE: 1" = 20'

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VERT.: 1" = 20'

DATUM:

HORZ.: 1" = 20'

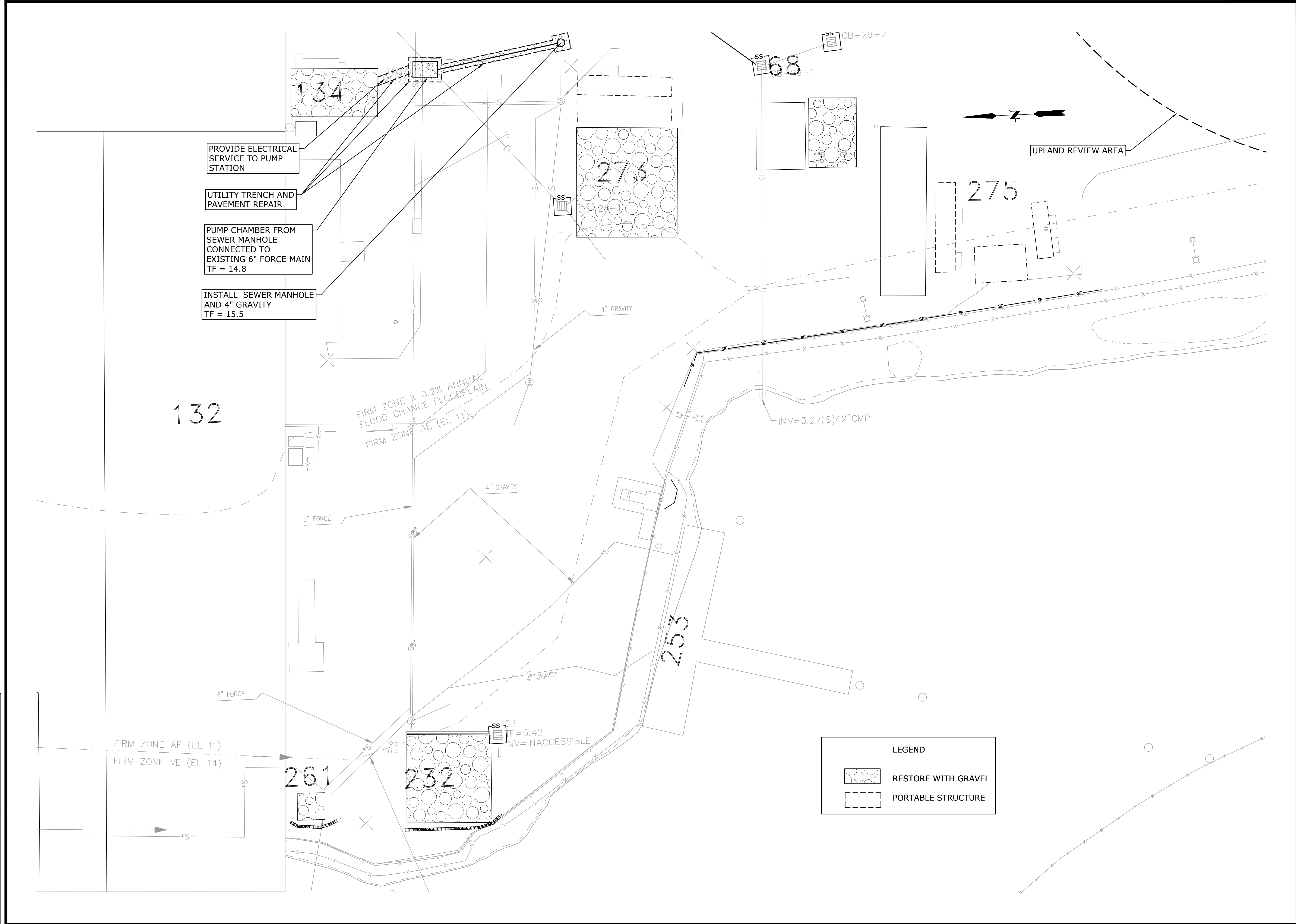
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GRAPHIC SCALE

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FUSS & O'NEILL

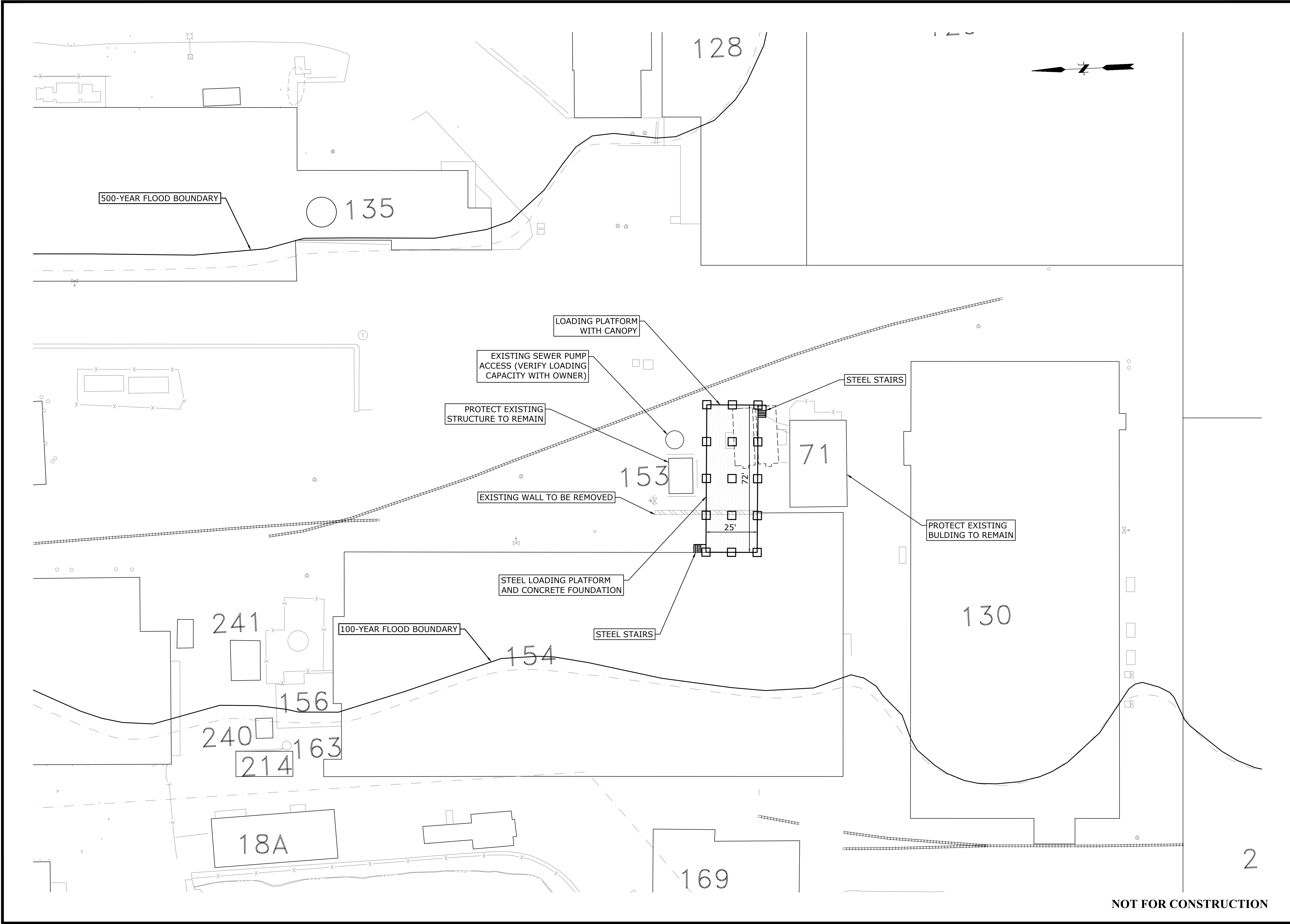
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FACILITIES MASTER PLAN - ENABLING PROJECTS		GROTON, CONNECTICUT	
SITE LAYOUT PLAN		SOUTH YARD ENABLING PROJECTS	
PROJ. No.: 1997570.A11		DATE: JUNE 5, 2018	
CS-102			
FUSS & O'NEILL 146 HARTFORD ROAD MIDDLETOWN, CONNECTICUT 06040 860.646.2469 www.fuss.com		DESIGNER REVIEWER XX/XX	
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NOT FOR CONSTRUCTION

FACILITIES MASTER PLAN - ENABLING PROJECTS	
SITE LAYOUT PLAN	
SOUTH YARD	
ENABLING PROJECTS	
CONNECTICUT	
GROTON	
PROJ. No.: 1997570.A11	
DATE: JUNE 5, 2018	
CS-104	

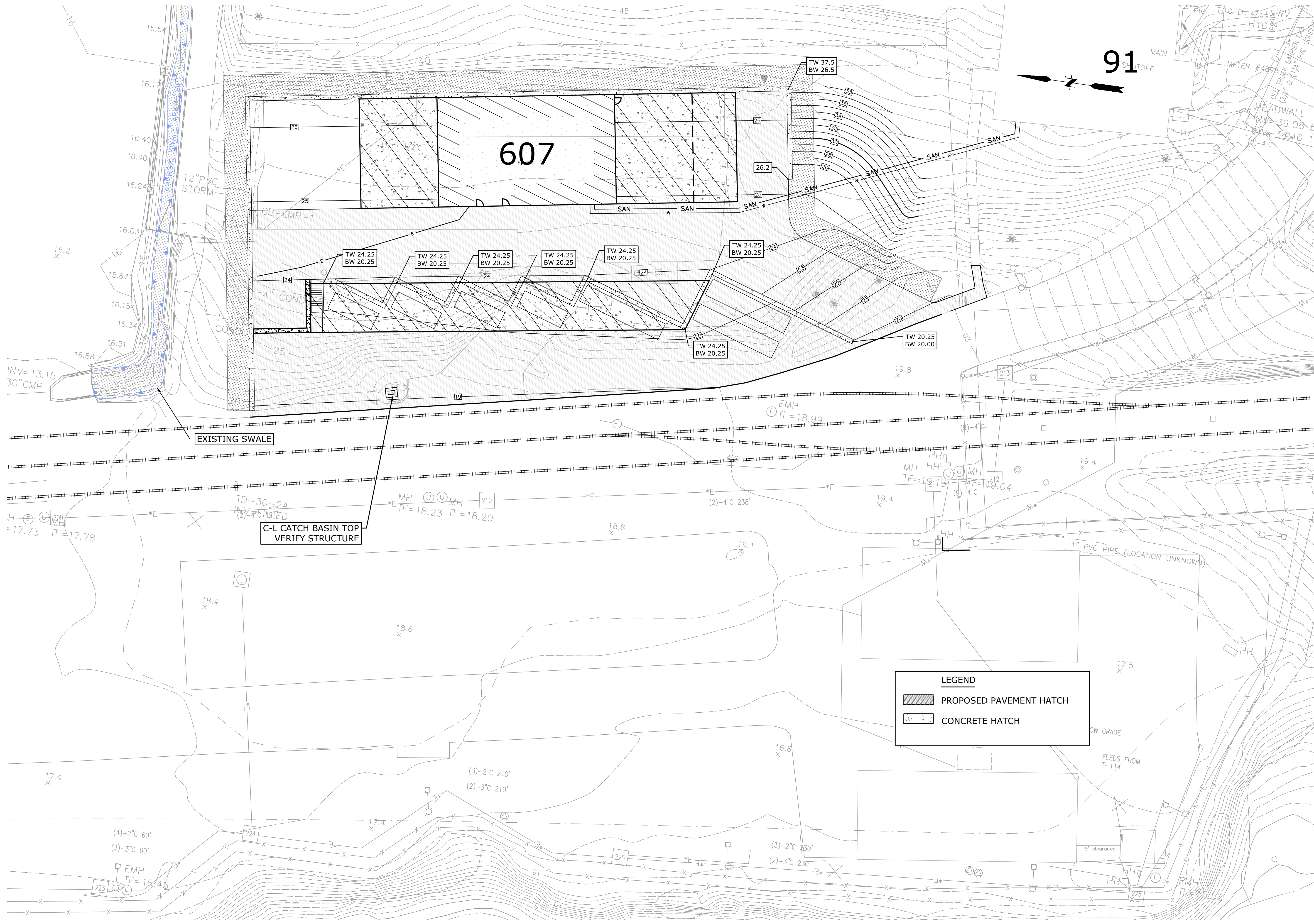
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GRAPHIC SCALE	

REVISIONS	
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DESIGNER	
No.	DATE
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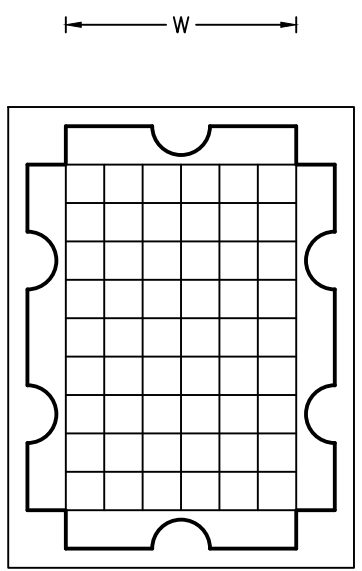
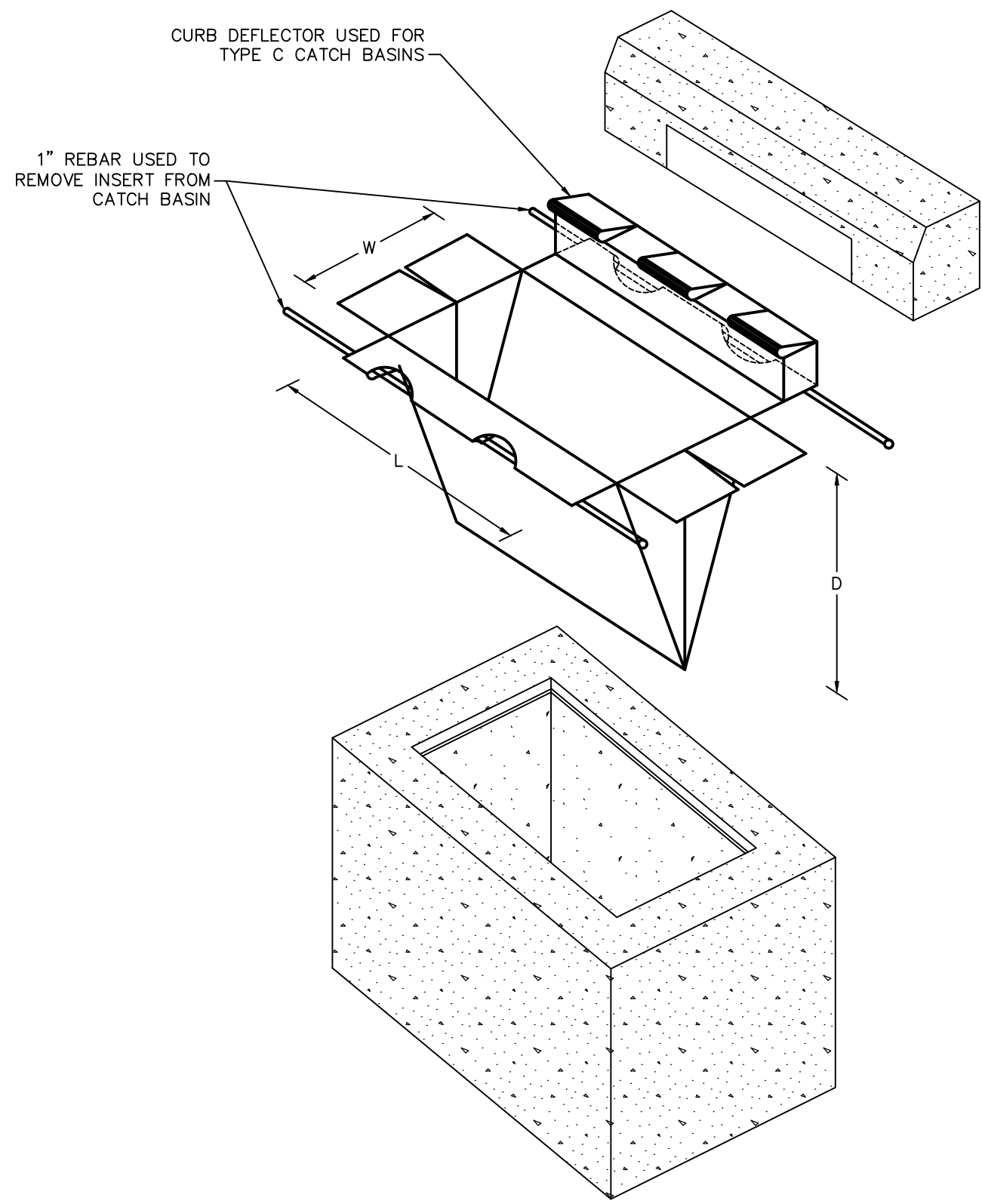
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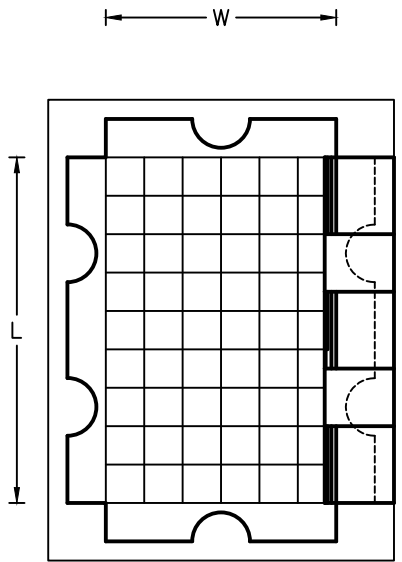
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FACILITIES MASTER PLAN - ENABLING PROJECTS		SOUTH YARD		ENABLING PROJECTS		CONNECTICUT	
SITE GRADING AND DRAINAGE PLAN				GROTON			
FUSS & O'NEILL 146 HARTFORD ROAD MIDDLETOWN, CONNECTICUT 06040 www.fuss.com				DESIGNER REVIEWER			
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CG-101				No.			

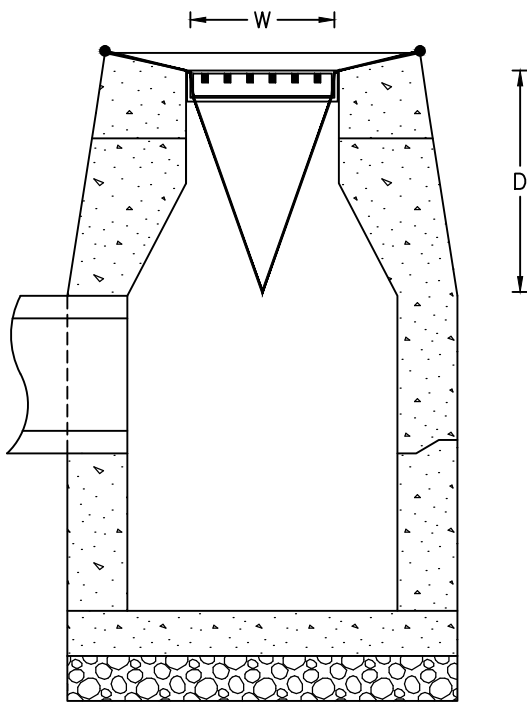
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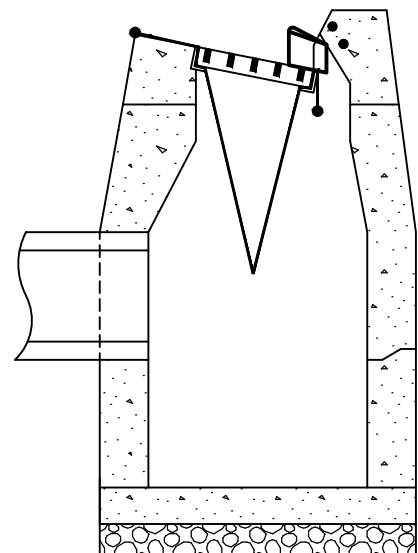
TYPE C PLAN



TYPE C PLAN

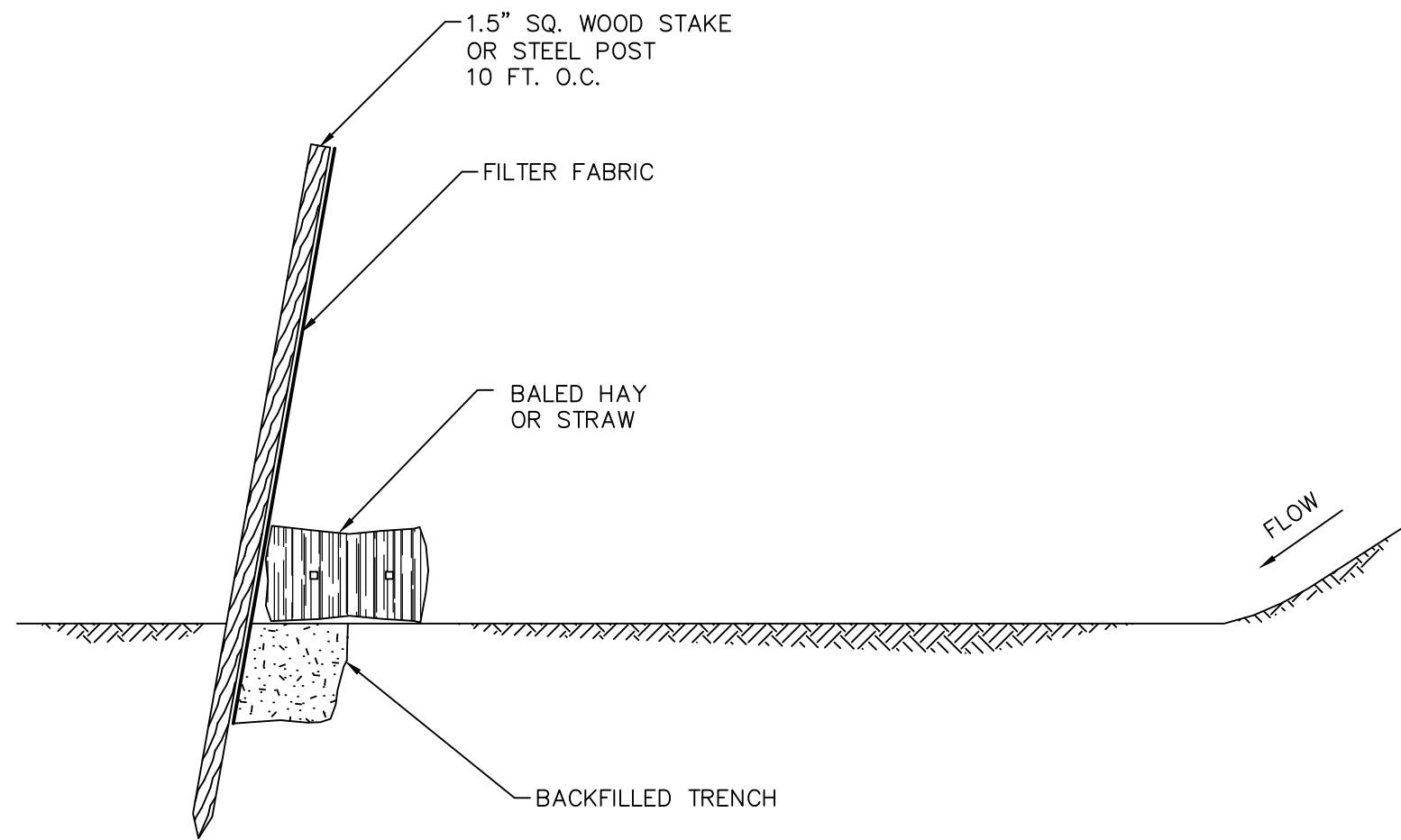
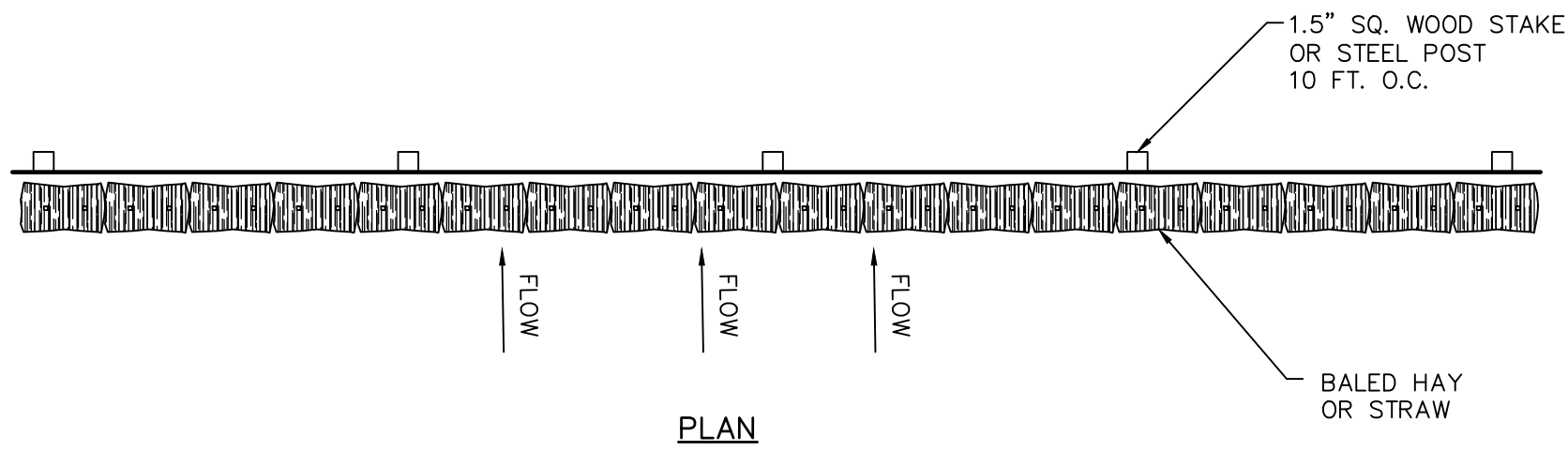


TYPE C SIDE ELEVATION

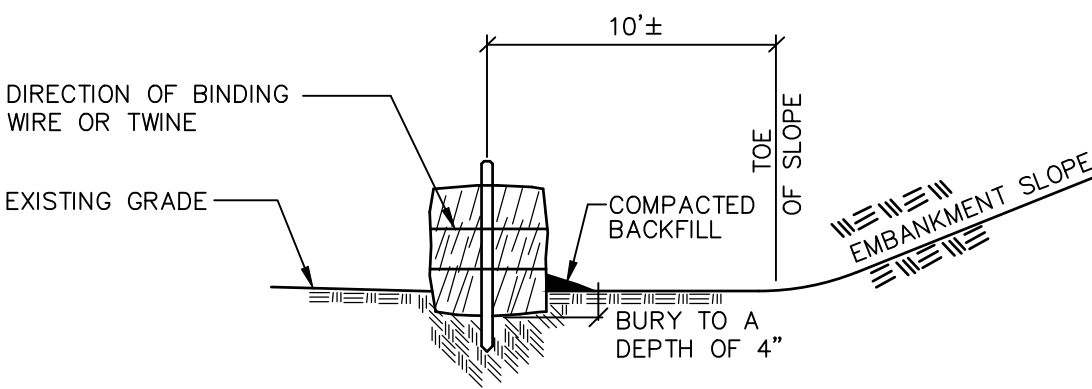
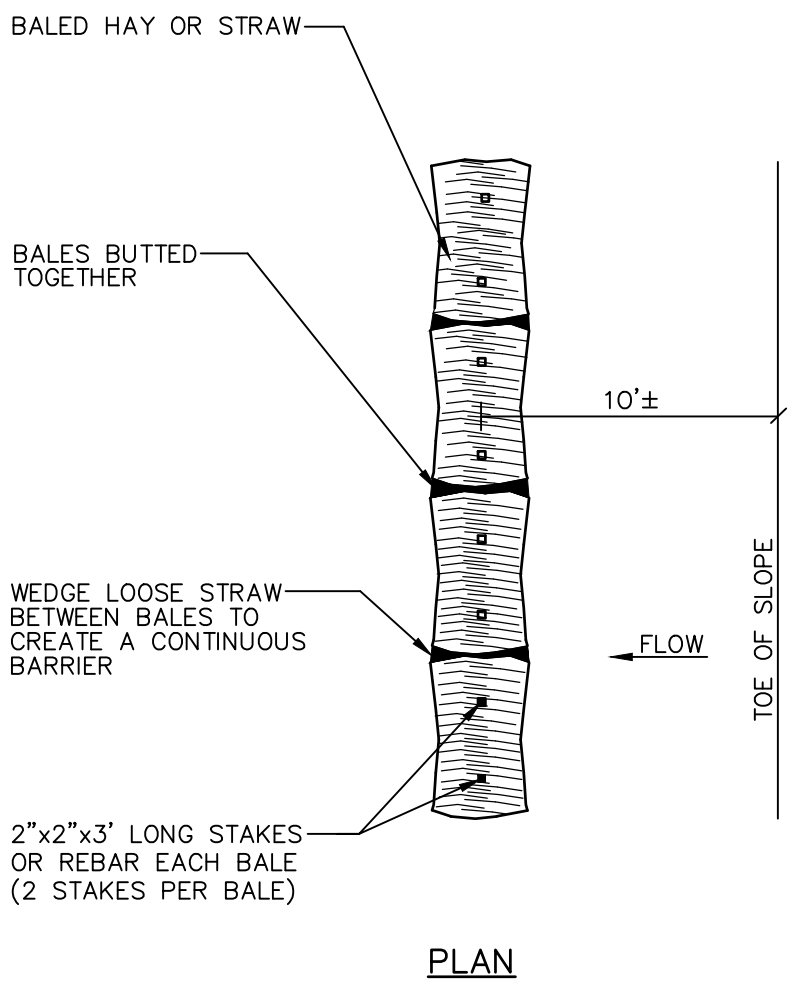


TYPE C SIDE ELEVATION

SEDIMENT CONTROL AT CATCH BASIN
NOT TO SCALE



SILT FENCE W/HAY BALE
NOT TO SCALE



SECTION AT TOE OF SLOPE

HAY BALES
NOT TO SCALE

EROSION & SEDIMENT CONTROL NOTES

1. CONSTRUCTION STANDARDS- CONSTRUCT ALL EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE MOST RECENT EDITION OF THE "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" (CT DEP BULLETIN 34). ALL MEASURES SHALL BE MAINTAINED AND UPGRADED TO ACHIEVE PROPER SEDIMENT CONTROL DURING CONSTRUCTION.

2. PLAN IMPLEMENTATION- IMPLEMENT THIS EROSION AND SEDIMENT CONTROL PLAN. THIS IMPLEMENTATION INCLUDES THE INSTALLATION AND MAINTENANCE OF CONTROL MEASURES UNTIL PERMANENT AND VEGETATIVE STABILIZATION IS ACHIEVED, INFORMING ALL SUBCONTRACTORS OF THE REQUIREMENTS AND OBJECTIVES OF THE PLAN, AND NOTIFYING THE PROPER MUNICIPAL AGENCY OF ANY TRANSFER OF THIS RESPONSIBILITY. THE OWNER SHALL BE RESPONSIBLE FOR CONVEYING A COPY OF THE EROSION AND SEDIMENT CONTROL PLAN TO THE NEW OWNER IF THE TITLE OF THE LAND IS TRANSFERRED PRIOR TO ACHIEVING PERMANENT STABILIZATION.

3. INSTALLATION SCHEDULE - INSTALL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO CONSTRUCTION. INSTALL ADDITIONAL CONTROL MEASURES DURING THE CONSTRUCTION PERIOD, IF DEEMED NECESSARY BY THE OWNER, HIS AGENTS OR AGENTS OF THE MUNICIPALITY.

4. FUGITIVE DUST - CONTROL FUGITIVE DUST USING WATER SPRAYS ON SOIL SURFACES, SWEEPING PAVED AREAS, TEMPORARY WINDBREAKS OR NON-ASPHALTIC SOIL TACKIFIERS.

6. CATCH BASINS- PROTECT CATCH BASINS WITH PROPER CONTROLS THROUGHOUT THE CONSTRUCTION PERIOD UNTIL ALL DISTURBED AREAS ARE PERMANENTLY STABILIZED.

7. STOCKPILES- ENCIRCLE STOCKPILES OF ERODIBLE SOIL WITH HAY BALES AND SILT FENCE BARRIER. THE SIDE SLOPES OF ERODIBLE STOCKPILED MATERIAL SHALL BE NO STEEPER THAN 2:1. STOCKPILES THAT ARE NOT TO BE USED WITHIN 30 DAYS SHALL BE SEEDED AND MULCHED IMMEDIATELY AFTER THEY ARE FORMED. ALL STOCK PILES ARE TO BE RESTORED TO EXISTING GRADE AND MATERIAL. STOCKPILES ARE ANTICIPATED TO BE REMOVED BY JANUARY 2019.

8. TOE OF SLOPE - ESTABLISH AN EROSION CONTROL BARRIER (SILT FENCE AND HAY BALE BARRIER) APPROXIMATELY 5 TO 10 FEET FROM THE PROPOSED TOE OF THE CUT OR FILL AREA PRIOR TO BEGINNING EARTHWORK.

9. SEDIMENT REMOVAL - SEDIMENT REACHING 1/2 THE HEIGHT OF THE EROSION CONTROL BARRIER SHALL BE REMOVED. REMOVE AND DISPOSE OF SEDIMENT IN A MANNER CONSISTENT WITH THE INTENT OF THE PLAN.

10. SOIL STABILIZATION SCHEDULE - APPLY PERMANENT SOIL STABILIZATION MEASURES TO ALL GRADED AREAS WITHIN 7 DAYS OF ESTABLISHING FINAL GRADE. APPLY TEMPORARY SOIL STABILIZATION MEASURES IF FINAL GRADING IS TO BE DELAYED MORE THAN 30 DAYS.

11. TEMPORARY SEEDING - TEMPORARILY SEED ERODIBLE SOILS THAT WILL BE EXPOSED GREATER THAN 1 BUT LESS THAN 12 MONTHS WITHIN THE FIRST 7 DAYS OF SUSPENDING GRADING OPERATIONS. APPLY LIME AT A RATE OF 90 LBS/1000 SQ. FT. APPLY 10-10-10 FERTILIZER AT A RATE OF 7 1/2 LBS/1000 SQ. FT. APPLY PERENNIAL RYE GRASS AT A RATE OF 2 LBS/1000 SQ. FT. TO A DEPTH OF 1/2 INCH. OPTIMUM SEEDING DATES ARE MARCH 15 TO JULY 1 AND AUGUST 1 TO OCTOBER 15. MULCH FOR SEED APPLIED WITHIN THE OPTIMUM SEEDING DATES SHALL BE APPLIED EVENLY SUCH THAT IT PROVIDES 80%-95% SOIL COVERAGE. MULCH FOR SEED APPLIED OUTSIDE OF THE OPTIMUM SEEDING DATES SHALL BE APPLIED EVENLY SUCH THAT IT PROVIDES 95%-100% COVERAGE.

12. INSPECTION - THE OWNER SHALL SECURE THE SERVICES OF A SOIL SCIENTIST OR PROFESSIONAL ENGINEER TO VERIFY IN THE FIELD THAT THE CONTROLS REQUIRED BY THIS PLAN ARE PROPERLY INSTALLED AND MAINTAINED. THESE INSPECTIONS SHALL NOT BE LESS FREQUENTLY THAN WEEKLY AND WITHIN 24 HOURS OF THE END OF A STORM HAVING A RAINFALL AMOUNT OF 1/2 INCH OR GREATER. MARIE MARTIN PROJECT MANAGER - ELECTRIC BOAT CORPORATION. 860-433-2710 SHALL BE CONTACTED FOR EROSION CONTROL INQUIRIES.

NOTE:
1. NO STAKE REQUIRED IN PAVEMENT AREAS.

NO.	DATE	STAFF COMMENTS	DESCRIPTION	DESIGNER	REVIEWER
1	8/17/2018			LMM	KS

SCALE:	HORIZ.: 1" = 20'	VERT.: 1" = 20'
DATUM:	HORIZ.: 1" = 20'	VERT.: 1" = 20'

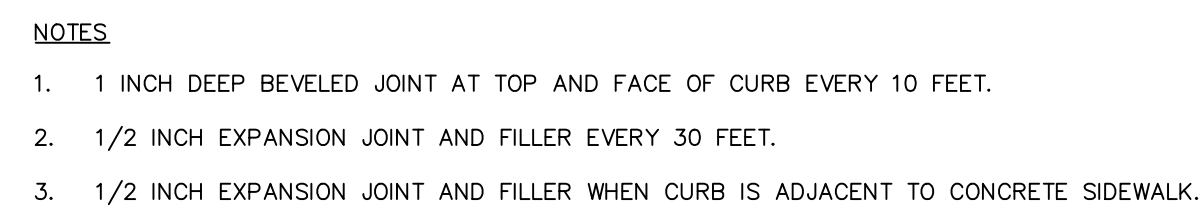
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NORWICH, CONNECTICUT 06040
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FACILITIES MASTER PLAN - ENABLING PROJECTS
DETAILS
SOUTH YARD
ENABLING PROJECTS
CONNECTICUT
GROTON

PROJ. No.: 1997570.A11
DATE: JUNE 5, 2018

CD-501

NOT FOR CONSTRUCTION



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CD-502		PROJ. No.: 1997570.A11	
DATE: JUNE 5, 2018		DATE: JUNE 5, 2018	
GROTON		CONNECTICUT	
ENABLING PROJECTS		CONNECTICUT	
SOUTH YARD		CONNECTICUT	
DETAILS		CONNECTICUT	
FACILITIES MASTER PLAN - ENABLING PROJECTS		CONNECTICUT	
			
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1. No.		1. No.	
DATE		DATE	
DESIGNER		DESIGNER	
REVIEWER		REVIEWER	



- MANHOLE NOTES
SCALE: N.T.S.



- SANITARY SEWER PIPE TRENCH NOTES**
SCALE: N.T.S.



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