

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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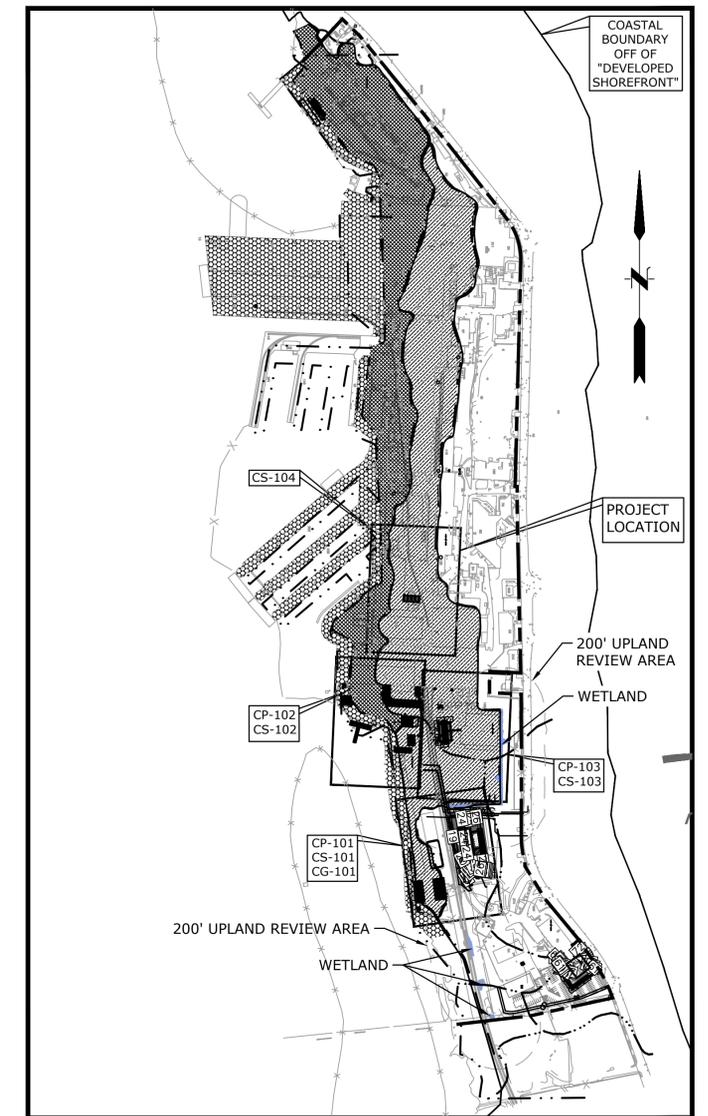
PREPARED FOR
**ELECTRIC BOAT
 CORPORATION**
 75 EASTERN POINT ROAD
 GROTON, CT

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CD-501 TO CD-504	DETAILS



PROPERTY LOCATION MAP
 SCALE: 1" = 2500'

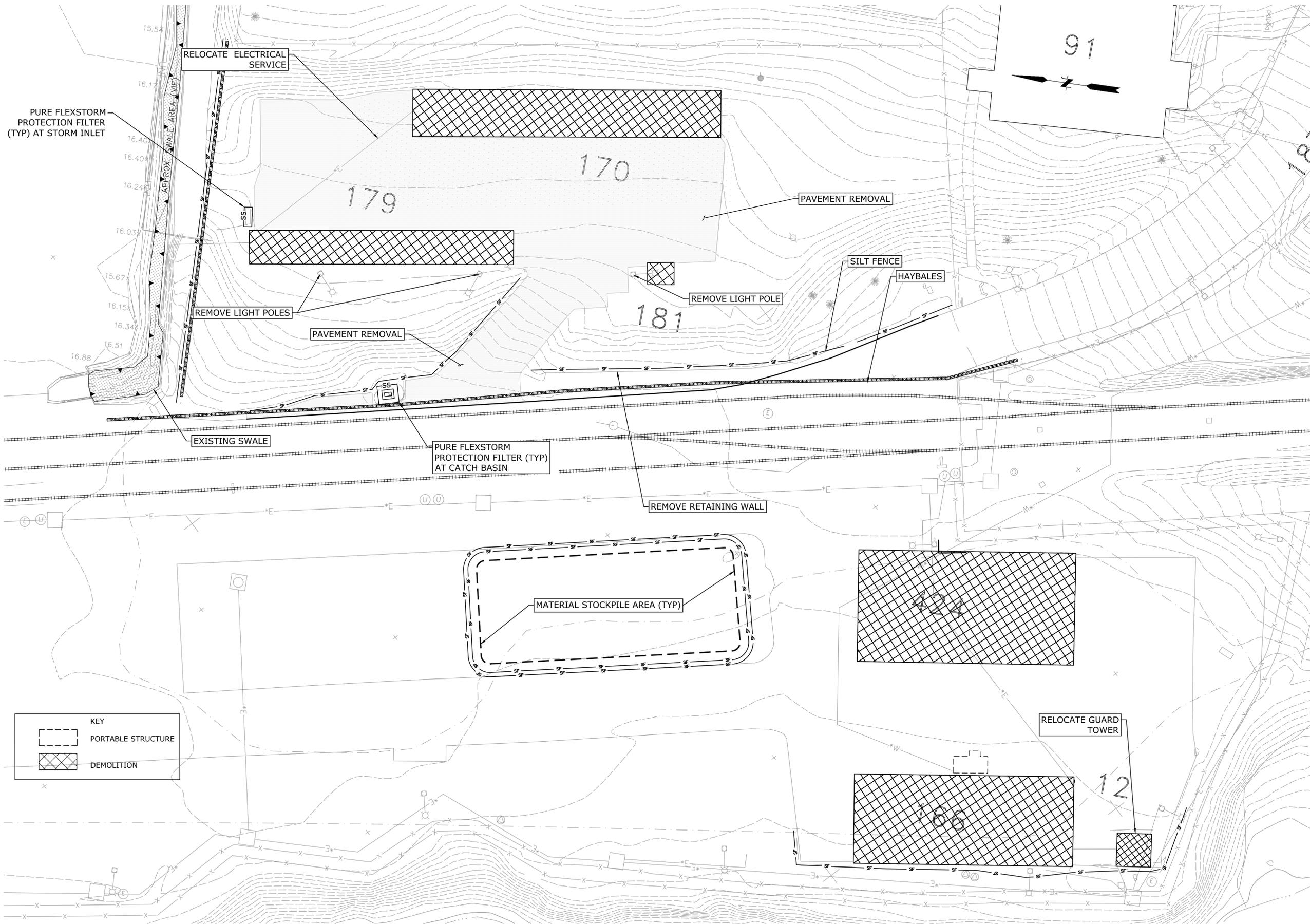


PROJECT LOCATION MAP
 SCALE: 1" = 400'

NOT FOR CONSTRUCTION

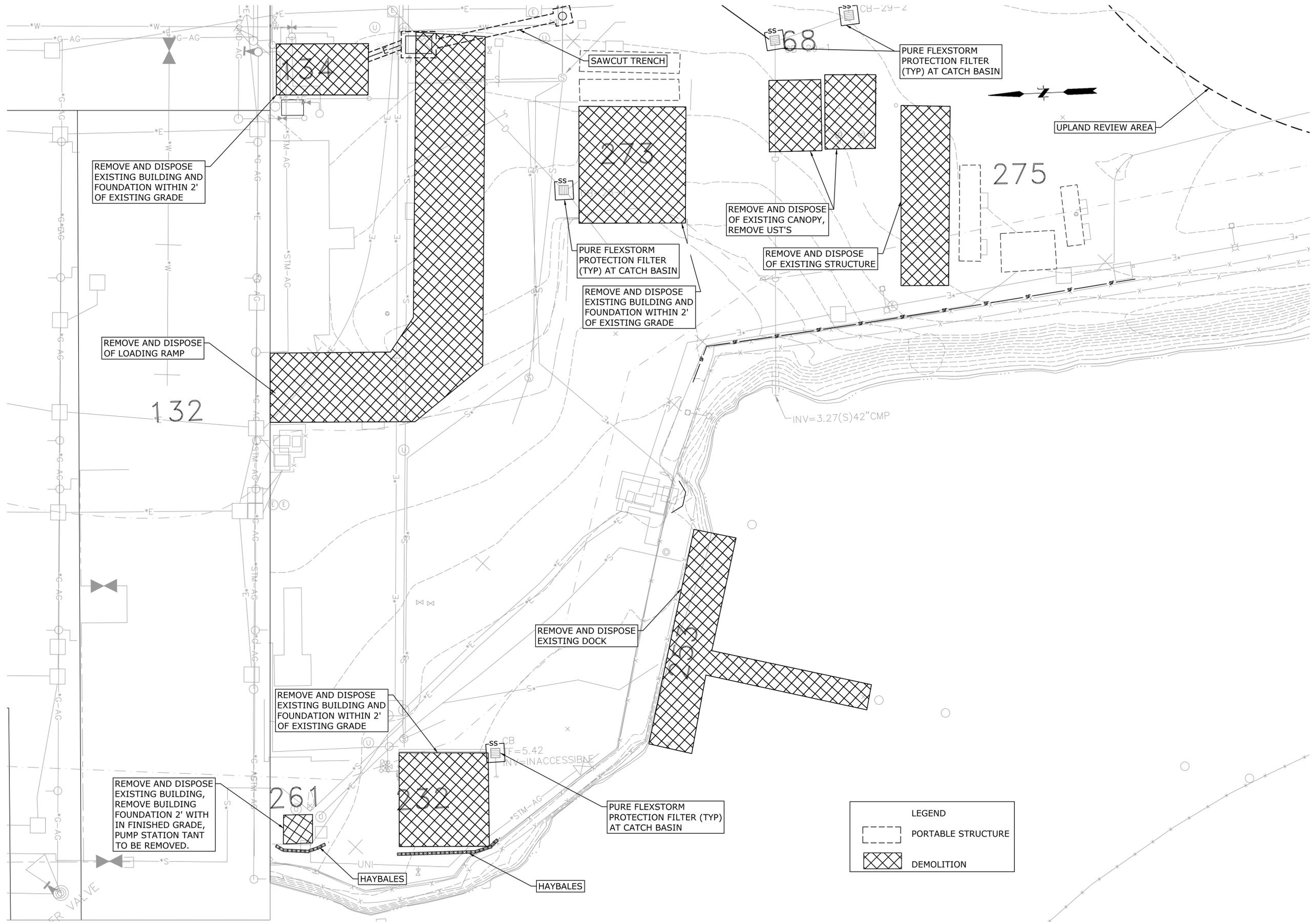
PROJ. No.: 1997570.A11
 DATE: JUNE 2018

GI-001



KEY	
	PORTABLE STRUCTURE
	DEMOLITION

SCALE: HORIZ.: 1" = 20'		VERT.: 1" = 20'		DATE: 8/20/2018		DESIGNER/REVIEWER: LMM KS	
DATUS:		HORIZ.: 1" = 20'		VERT.: 1" = 20'		DESCRIPTION:	
GRAPHIC SCALE		1 10 20		No. 1		DATE: 8/20/2018	
<p>FUSS & O'NEILL 146 HARTFORD ROAD MIDDLETOWN, CONNECTICUT 06460 860.646.2469 www.fandob.com</p>		<p>FACILITIES MASTER PLAN - ENABLING PROJECTS</p> <p>SITE DEMOLITION PLAN</p> <p>SOUTH YARD</p> <p>ENABLING PROJECTS</p>		CONNECTICUT		GROTON	
		<p>PROJ. No.: 1997570.A11</p> <p>DATE: JUNE 5, 2018</p>		<p>CP-101</p>		<p>NOT FOR CONSTRUCTION</p>	



REMOVE AND DISPOSE EXISTING BUILDING AND FOUNDATION WITHIN 2' OF EXISTING GRADE

REMOVE AND DISPOSE OF LOADING RAMP

132

REMOVE AND DISPOSE EXISTING BUILDING AND FOUNDATION WITHIN 2' OF EXISTING GRADE

REMOVE AND DISPOSE EXISTING BUILDING, REMOVE BUILDING FOUNDATION 2' WITH IN FINISHED GRADE, PUMP STATION TANT TO BE REMOVED.

261

HAYBALES

REMOVE AND DISPOSE EXISTING BUILDING AND FOUNDATION WITHIN 2' OF EXISTING GRADE

SAWCUT TRENCH

275

REMOVE AND DISPOSE EXISTING DOCK

PURE FLEXSTORM PROTECTION FILTER (TYP) AT CATCH BASIN

CB-5.42
 INV=INACCESSIBLE

REMOVE AND DISPOSE OF EXISTING CANOPY, REMOVE UST'S

REMOVE AND DISPOSE OF EXISTING STRUCTURE

PURE FLEXSTORM PROTECTION FILTER (TYP) AT CATCH BASIN

68

INV=3.27(S)42" CMP

UPLAND REVIEW AREA

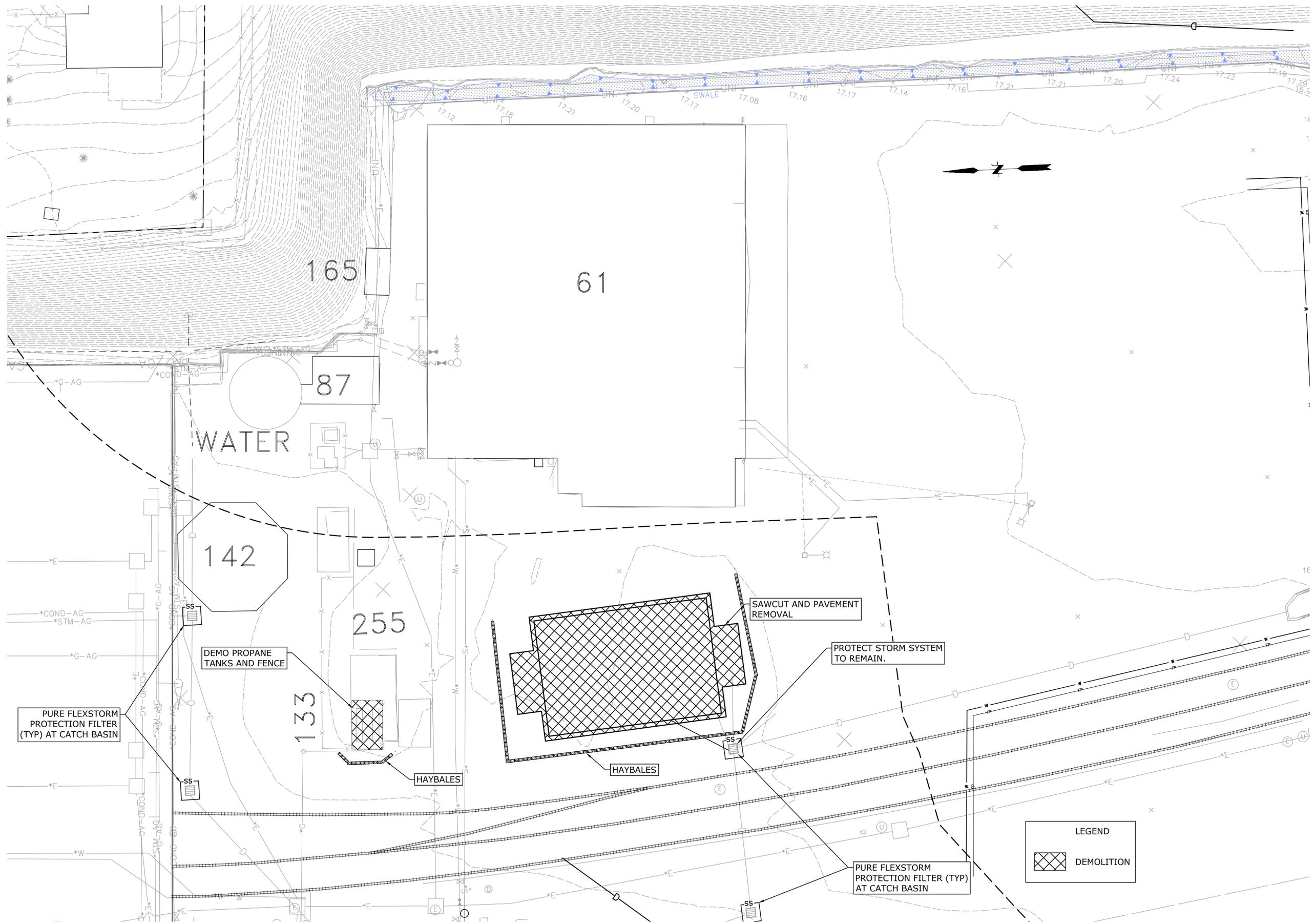
275

LEGEND

- PORTABLE STRUCTURE
- DEMOLITION

SCALE: HORZ.: 1" = 20' VERT.: DATUM: HORZ.: VERT.: GRAPHIC SCALE	FUSS & O'NEILL 146 HARTFORD ROAD NORTH HAVEN, CONNECTICUT 06460 860.646.2460 www.fuss.com	FACILITIES MASTER PLAN - ENABLING PROJECTS SITE DEMOLITION PLAN SOUTH YARD ENABLING PROJECTS GROTON, CONNECTICUT	No. 1. DATE: 8/20/2018 STAFF COMMENTS: DESCRIPTION: LWM DESIGNER/REVIEWER: KS
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PROJ. No.: 1997570.A11
 DATE: JUNE 5, 2018
 CP-102



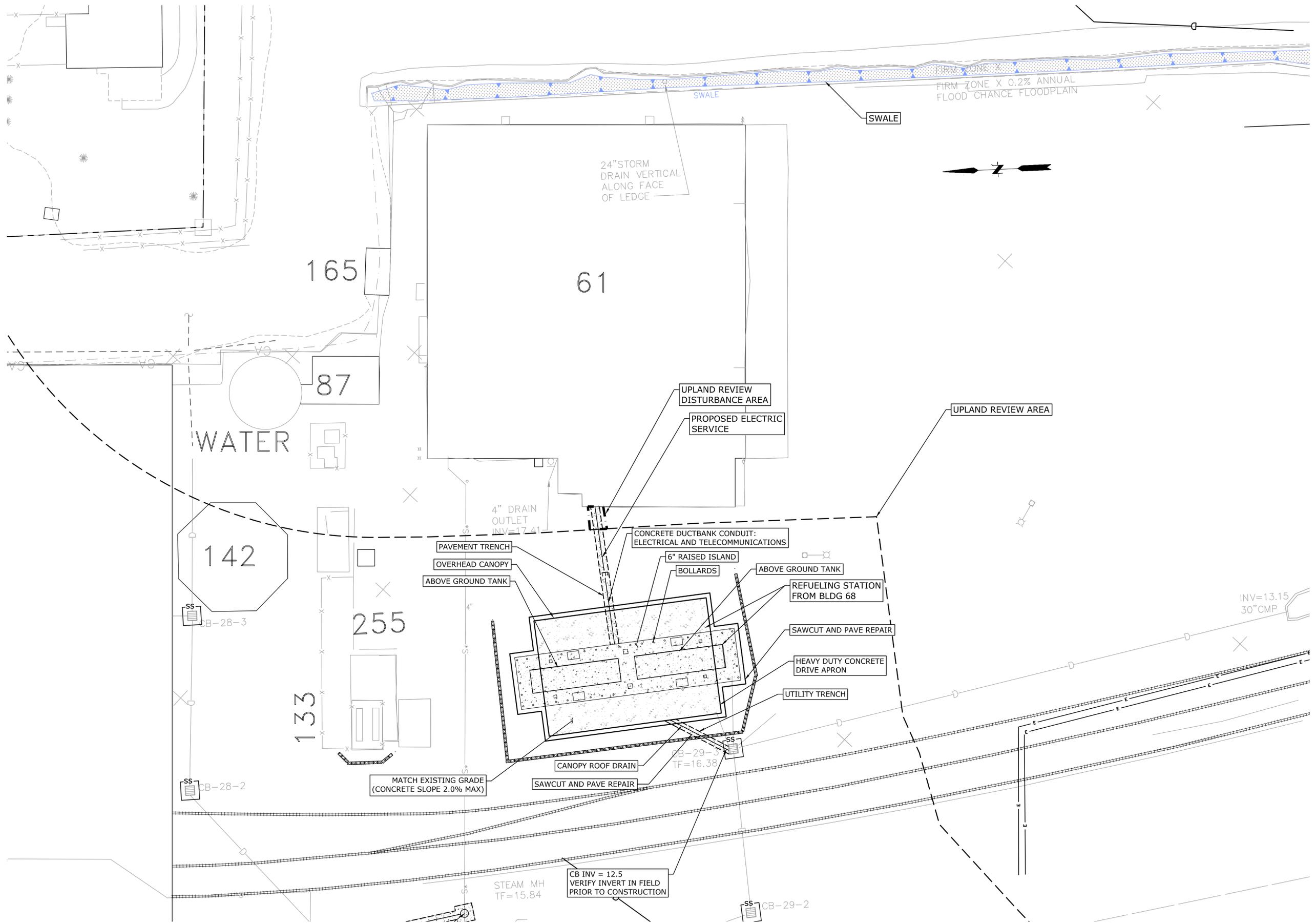
LEGEND

 DEMOLITION

NOT FOR CONSTRUCTION

<p>SCALE: HORIZ.: 1" = 20' VERT.: DATUM: HORIZ.: VERT.: GRAPHIC SCALE</p>		<p>1. 8/20/2018 STAFF COMMENTS No. DATE DESCRIPTION LWM REB DESIGNER REVIEWER</p>	
<p>FUSS & O'NEILL 146 HARTFORD ROAD NEW HAVEN, CONNECTICUT 06640 860.646.2469 www.fuss.com</p>		<p>FACILITIES MASTER PLAN - ENABLING PROJECTS SOUTH YARD ENABLING PROJECTS GROTON CONNECTICUT</p>	
<p>PROJ. No.: 1997570.A11 DATE: JUNE 5, 2018</p>		<p>CP-103</p>	

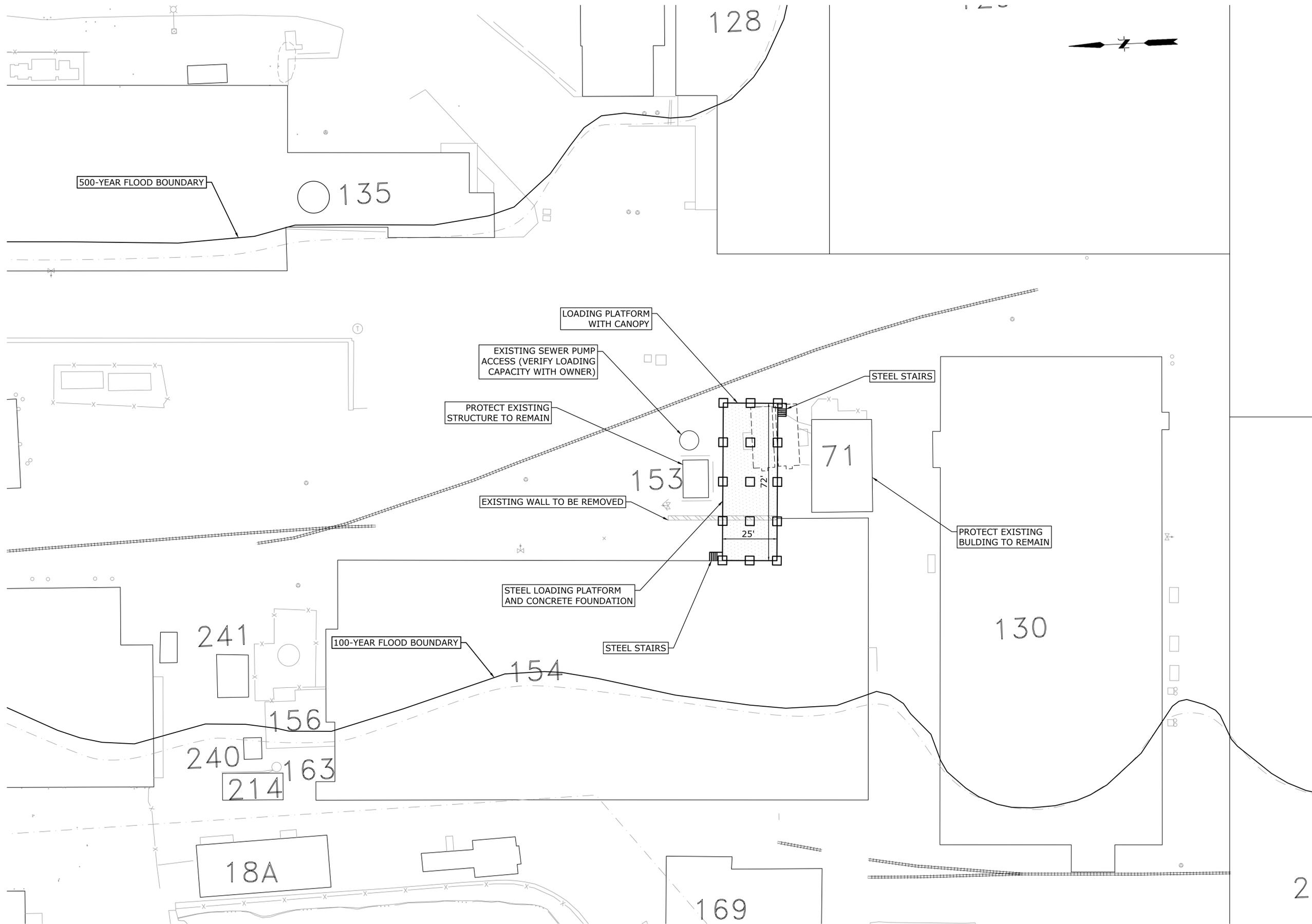
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 MS VIEW: Plotter: DWG TO PDF.PC3 CTB File: FOSTB



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<p>PROJ. No.: 1997570.A11 DATE: JUNE 5, 2018</p>	
<p>CS-103</p>	
<p>SCALE: HORIZ: 1" = 20' VERT: 1" = 10' DATUM: NAVD83</p>	<p>DESIGNER: [] CHECKER: [] DATE: [] No. []</p>
<p>DESCRIPTION: []</p>	<p>DESIGNER REVIEWER: [] XX/XX []</p>

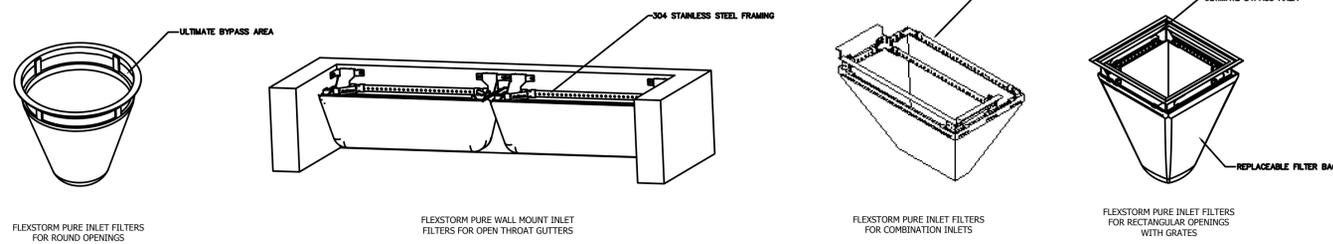
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SCALE: HORIZ.: 1" = 20'				
VERT.: 1" = 20'				
D.A.T.U.M.: 1985 BENCHMARK				
HORIZ.: 1" = 20'				
VERT.: 1" = 20'				
GRAPHIC SCALE				
FUSS & O'NEILL 146 HARTFORD ROAD MIDDLETOWN, CONNECTICUT 06460 860.646.2469 www.fuss.com				
FACILITIES MASTER PLAN - ENABLING PROJECTS SITE LAYOUT PLAN SOUTH YARD ENABLING PROJECTS CONNECTICUT				
GROTON				
PROJ. No.: 1997570.A11 DATE: JUNE 5, 2018				
CS-104				
No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.				

FLEXSTORM PURE FILTERS FOR PERMANENT INLET PROTECTION
PRODUCT SELECTION AND SPECIFICATION DRAWING



For Round Openings with Grates		Minimum Bypass Flow Rates (CFS)* Based on Nominal Frame Size with minimum 2" Bypass flow gap		For Open Throat Curb Inlets - Mounted to Wall Beneath Curb Opening		For Rectangular/Square Openings with Grates			Minimum Bypass Flow Rates (CFS)* Based on Nominal Frame Size with minimum 2" Bypass flow gap	
Drop Thru Opening Size Dia	Flexstorm Frame P/N			Curb Opening Size	Flexstorm Frame P/N	Clear Drop Thru Opening Size (not grate or seat size)	Flexstorm Frame P/N	Combination P/N		
Small: 10.0" - 18.0"	62SHDR		1.6	Up to 4" curb openings (1 Filter)	62HDWM1	Small: 12" x 12" up to 18" x 18" (or 64" max perimeter)	62SHD	62SHDCB		2.4
Medium: 18.1" - 24.0"	62MHR		2.7	Between 4" and 8" curb openings (2 Filters)	62HDWM2	Medium: 18" x 18" up to 24" x 24" (or 96" max perimeter)	62MHD	62MHDCB		3.5
Large: 24.1" - 36.0"	62LHR		3.8	Between 8" and 12" curb openings (3 Filters)	62HDWM3	Large: 26" x 26" up to 30" x 30" (or 120" max perimeter)	62LHD	62LHDCB		5.0
				Between 12" and 16" curb openings (4 Filters)	62HDWM4	XL: 32" x 32" up to 48" x 48" (or 192" max perimeter) typ 2 pc set	62XLHD	62XLHDCB		7.2

CREATE YOUR ADS FLEXSTORM PART NUMBER BY COMBINING FRAME P/N AND BAG P/N

1. IDENTIFY YOUR FLEXSTORM FRAME PART NUMBER FROM TABLES ABOVE

2. SELECT YOUR BAG PART NUMBER BASED ON APPLICATION NEEDS

FLEXSTORM FILTER BAGS	(22" depth) STD Bag P/N	(12" depth) Short Bag P/N	Clean Water Flow Rate (GPM/SqFt)	Min A.O.S. (US Sieve)
FX: Standard Woven Bag	FX	FX-S	200	40
FX+: Woven w/ MyCelx	FXP	FXP-S	200	40
FXO: Woven w/ Oil Boom	FXO	FXO-S	200	40
PC: Post Construction Bag	PC	PC-S	137	140
PC+: PC Bag w/ MyCelx	PCP	PCP-S	137	140
LL: Litter and Leaf Bag	LL	LL-S	High	3.5
IL: IDOT Non-Woven Bag	IL	IL-S	145	70

SPECIFICATIONS FOR STANDARD BAGS BY NOMINAL BAG / FRAME SIZE

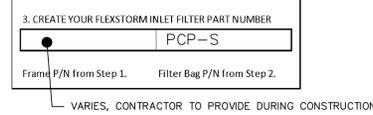
Nominal Bag Size Matched to Frame Size	Solids Storage (CuFt)	Filtered Flow Rate at 50% Max (CFS)	PC Oil Retention (Oz)	PC+ Oil Retention (Oz)	FX+ Oil Retention (Oz)
Small	1.6	1.2	0.8	0.9	79
Medium	2.1	1.7	1.2	1.3	115
Large	3.8	2.7	1.8	1.9	173
XL	4.2	3.6	2.4	2.6	230

Filtration Efficiency: 82% (FX), NA (PC)

TSS (total suspended solids rem): NA (FX), 99% (PC)

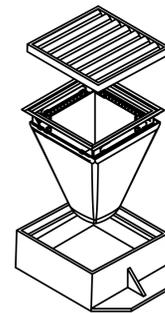
TPH (tot petroleum hydrocarbons): NA (FX), 96% (PC)

* PC filter bag at 50% max adsorption capacity
** PC filter bag at 50% capacity and MyCelx skimmer at 100% capacity

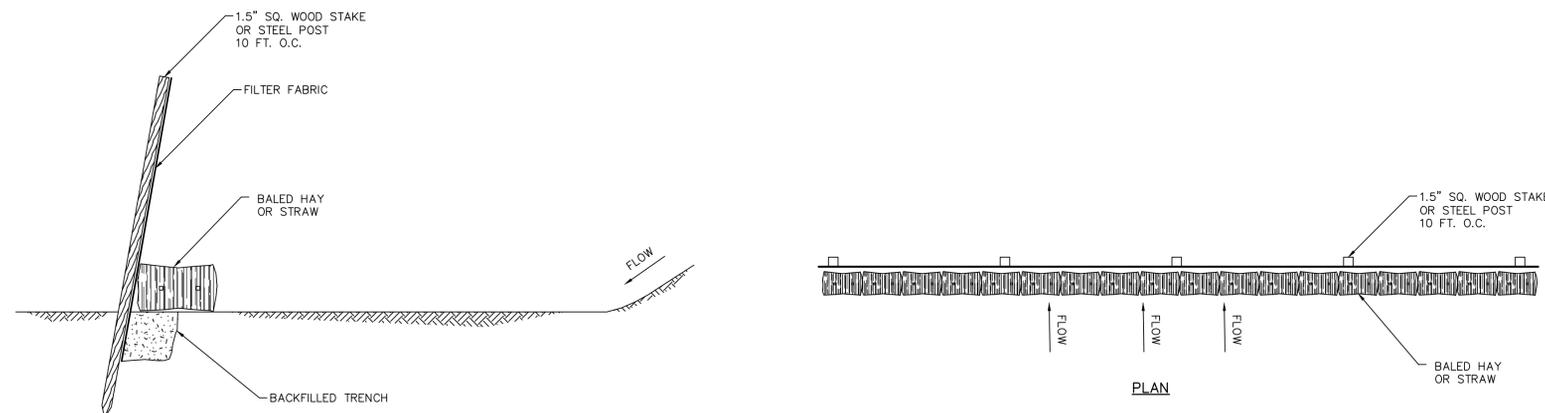


- NOTES:**
- ALL FRAMING IS CONSTRUCTED OF 304 STAINLESS STEEL FOR 25 YEAR SERVICE LIFE RATING
 - TOTAL BYPASS CAPACITY: BYPASS CAPACITY WILL VARY WITH EACH SIZE DRAINAGE STRUCTURE. FLEXSTORM DESIGNS FRAMING BYPASS TO MEET OR EXCEED THE DESIGN FLOW OF THE PARTICULAR DRAINAGE STRUCTURE.
 - UPON ORDERING CONFIRMATION OF THE DOT CALLOUT, PRECAST OR CASTING MAKE AND MODEL, OR DETAILED DIMENSIONAL FORMS MUST BE PROVIDED TO CONFIGURE AND ASSEMBLE YOUR CUSTOMIZED FLEXSTORM INLET FILTER. PART NUMBER ALONE IS NOT SUFFICIENT.
 - FOR WRITTEN SPECIFICATIONS AND MAINTENANCE GUIDELINES VISIT WWW.INLETFILTERS.COM

- INSTALLATION:**
- REMOVE GRATE
 - DROP FLEXSTORM INLET FILTER ONTO LOAD BEARING LIP OF CASTING OR CONCRETE STRUCTURE
 - REPLACE GRATE



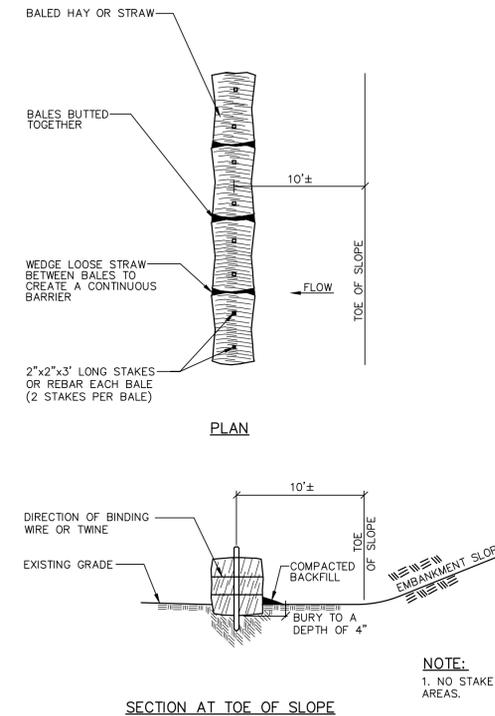
PURE STORMFLEX PROTECTION FILTER
NOT TO SCALE



SILT FENCE W/HAY BALE
NOT TO SCALE

EROSION & SEDIMENT CONTROL NOTES

- 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.
- 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.
- 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.
- FUGITIVE DUST - CONTROL FUGITIVE DUST USING WATER SPRAYS ON SOIL SURFACES, SWEEPING PAVED AREAS, TEMPORARY WINDBREAKS OR NON-ASPHALTIC SOIL TACKIFIERS.
- CATCH BASINS- PROTECT CATCH BASINS WITH PURE STORMFLEX FILTERS THROUGHOUT THE CONSTRUCTION PERIOD. PURE FLEXSTORM FILTER FABRICS ARE TO BE REPLACES WHEN ALL DISTURBED AREAS ARE PERMANENTLY STABILIZED. PURE STORMFLEX FILTERS ARE TO REMAIN AS PERMANENT STORMWATER TREATMENT SYSTEMS AFTER CONSTRUCTION.
- STOCKPILES- DO NOT STOCKPILE. DIRECT LOAD EXCESS MATERIAL, AS NECESSARY.
- 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.
- 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.
- 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.
- 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
- 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.



HAY BALES
NOT TO SCALE

NOT FOR CONSTRUCTION

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

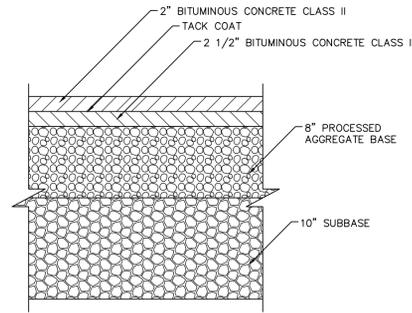
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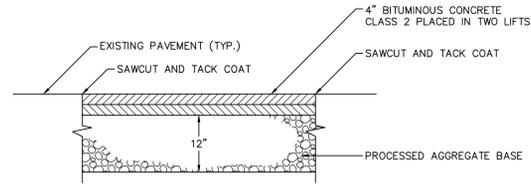
FACILITIES MASTER PLAN - ENABLING PROJECTS
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SOUTH YARD
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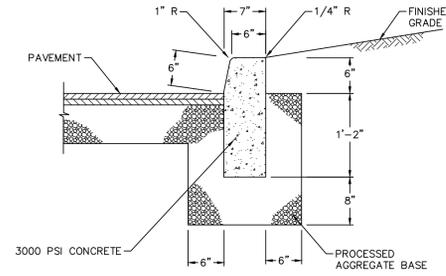
CD-501



BITUMINOUS CONCRETE PAVEMENT (HEAVY DUTY)
 NOT TO SCALE



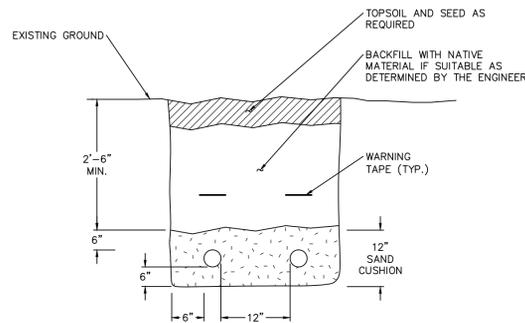
BITUMINOUS PARKING LOT REPAIR
 NOT TO SCALE



NOTES

1. 1 INCH DEEP BEVELED JOINT AT TOP AND FACE OF CURB EVERY 10 FEET.
2. 1/2 INCH EXPANSION JOINT AND FILLER EVERY 30 FEET.
3. 1/2 INCH EXPANSION JOINT AND FILLER WHEN CURB IS ADJACENT TO CONCRETE SIDEWALK.

CONCRETE CURB
 NOT TO SCALE



UNDERGROUND CONDUIT TRENCH NOTES

1. INSTALL MARKING TAPE ABOVE THE ELECTRIC, TELEPHONE CONDUIT AND BURIED GAS LINE.

UNDERGROUND UTILITIES TRENCH
 NOT TO SCALE

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.				

SCALE:	HORZ.: 1" = 20'
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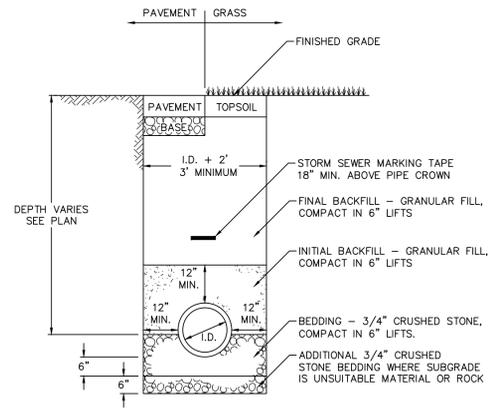
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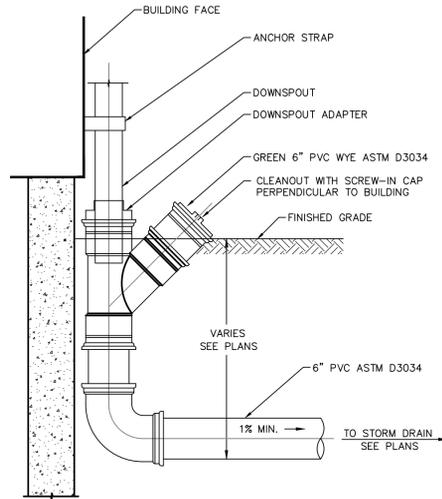
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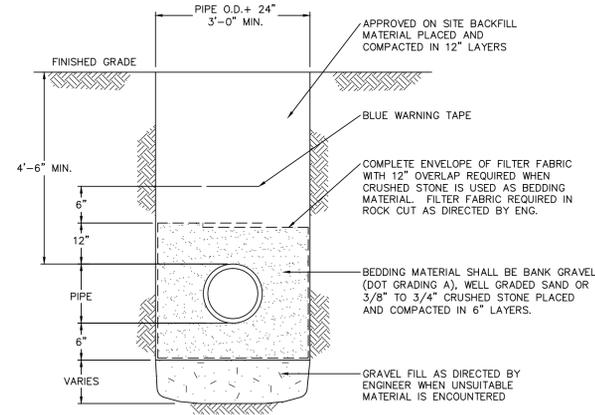
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STORM SEWER TRENCH
 NOT TO SCALE



ROOF LEADER DRAIN CONNECTION
 NOT TO SCALE



WATER TRENCH SECTION
 NOT TO SCALE

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