



March 16, 2015

Mr. Matthew Chait
BVH Integrated Services, P.C.
50 Griffin Road South
Bloomfield, CT 06002

Subject: Demolition of the Coast Guard R&D Building
UCONN Avery Point Campus
Groton, CT

Dear Mr. Chait:

The State Historic Preservation Office (SHPO) has reviewed the referenced project in response to your request for our comments regarding potential effects to historic properties, dated February 27, 2015. The request for comments is in support of a Stormwater Discharge permit issued by the Department of Energy and Economic Protection (DEEP). Project plans call for the demolition of the Coast Guard R&D Building, as well as re-routing of underground utilities in its vicinity. In its place, manicured plantings, lawns, and sidewalks will be installed.

As noted in your review request, the proposed project area is situated adjacent to the Branford House, a property listed on the National Register of Historic Places (NRHP). The Branford House was listed to the NRHP for its architectural significance as a sophisticated example of a Jacobethan "summer cottage." The NRHP nomination form for this property specifically states that the building, currently identified as the Coast Guard R&D Building, is not included in the nomination. The Coast Guard R&D Building, a brick institutional structure constructed during the 1940's, is a common design with evidence of changes in its original construction as part of use and maintenance efforts. It is the opinion of this office that the Coast Guard R&D Building is not eligible for listing on the National Registers of Historic Places (NRHP). There are no reported archeological sites in the vicinity of the proposed undertaking. It is unlikely that the proposed project would disturb significant archeological resources because construction will be confined to existing disturbed areas. Because the proposed demolition is situated adjacent to the Branford House, SHPO urges that extreme caution be exercised during vibration producing activities. With appropriate precautionary measures taken into consideration, the proposed demolition will not have permanent impacts to the character defining features of the Branford House and, therefore, will have no adverse effect to this important historic property.

The State Historic Preservation Office appreciates the opportunity to review and comment upon this project. These comments are provided in accordance with Section 106 of the National Historic Preservation Act, as amended, and the Connecticut Environmental Policy Act. For additional information, please contact Catherine Labadia, Environmental Reviewer, at (860) 256-2764 or catherine.labadia@ct.gov.

Sincerely,

Daniel T. Forrest
State Historic Preservation Officer

State Historic Preservation Office

One Constitution Plaza | Hartford, CT 06103 | P: 860.256.2800 | Cultureandtourism.org

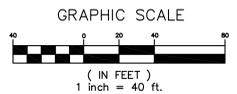
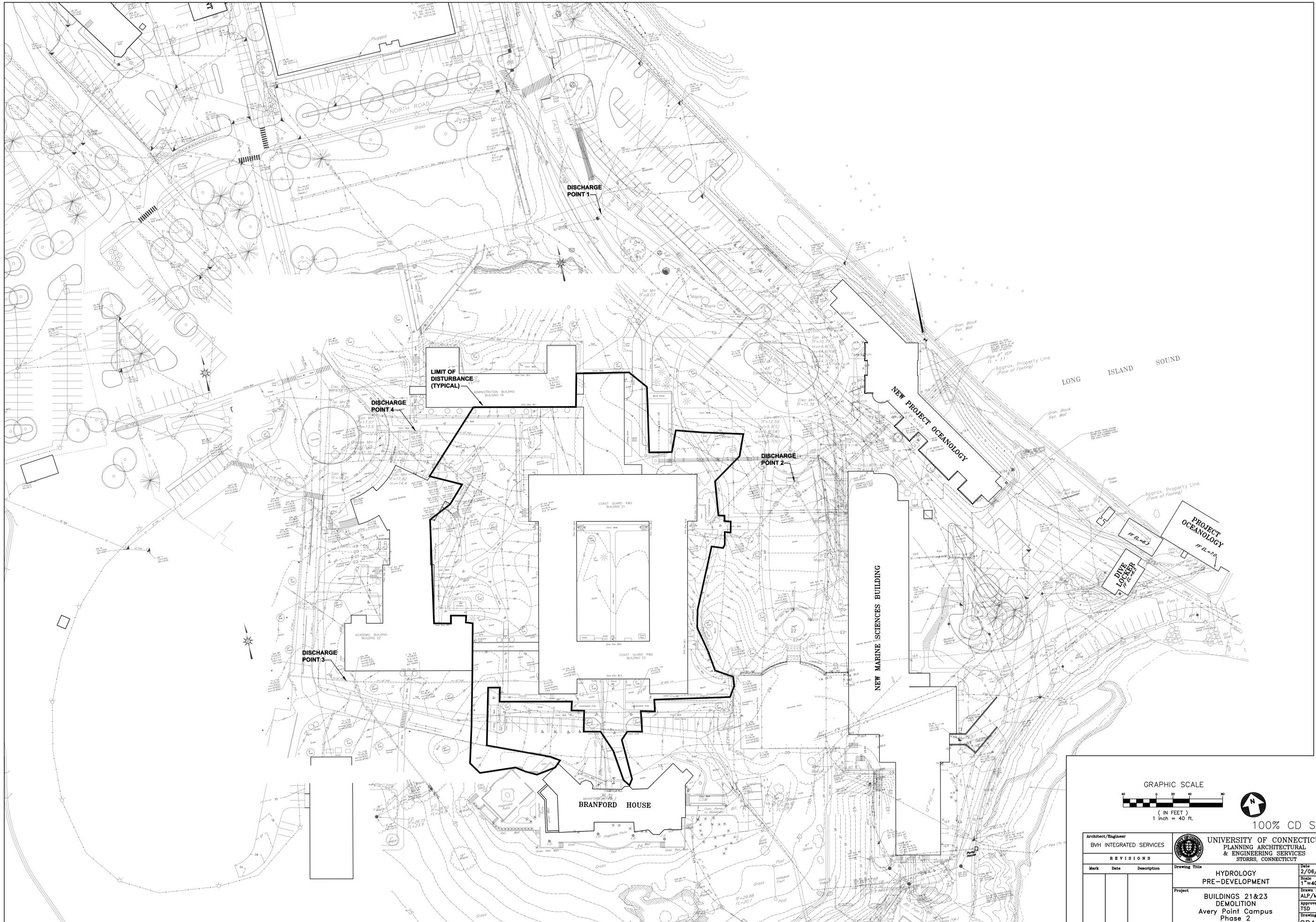
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Appendix C:

Site Drainage Maps and Grading and Drainage Plans

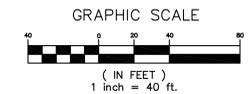
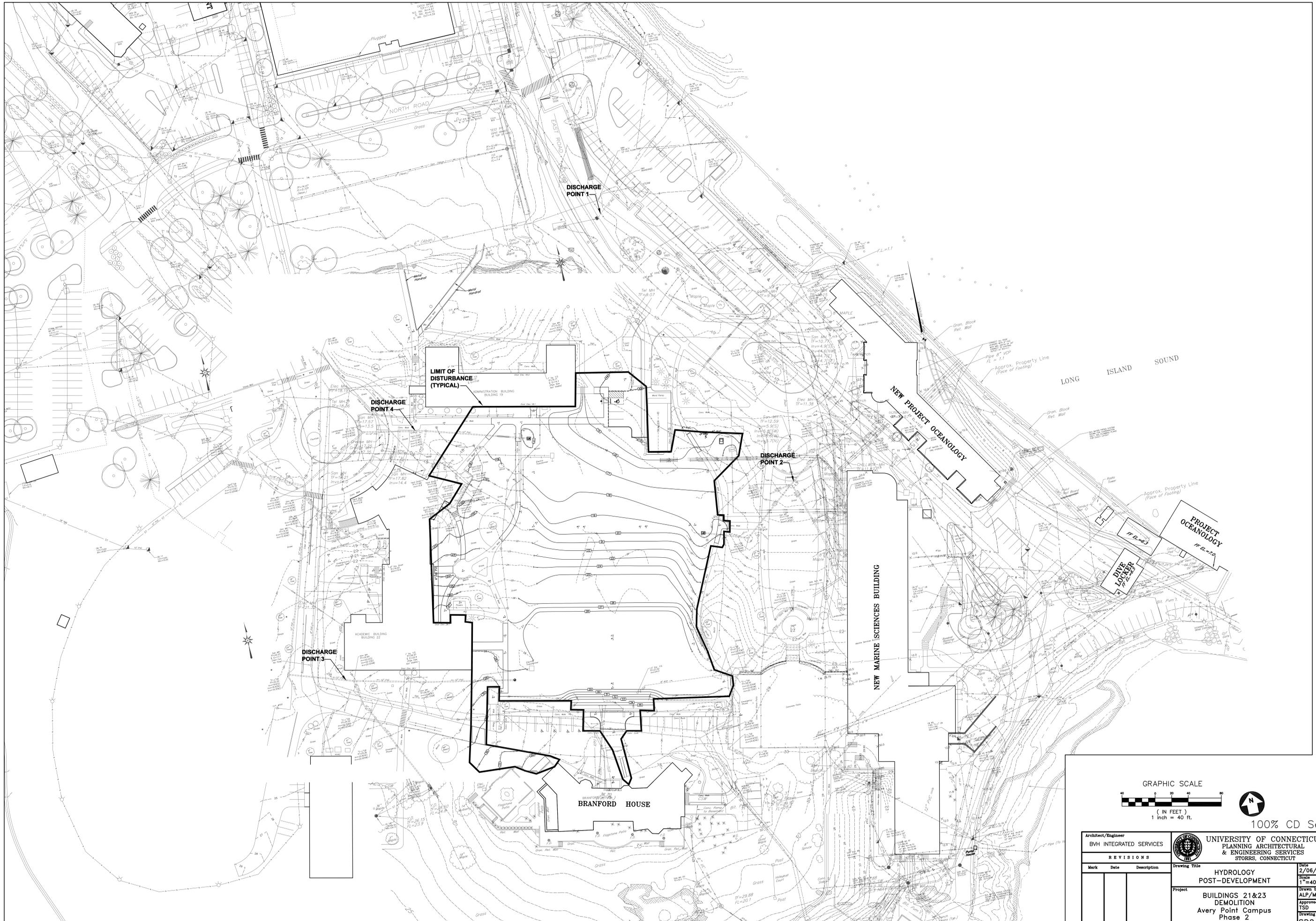
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REVISIONS			
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Project BUILDINGS 21&23 DEMOLITION Avery Point Campus Phase 2		Drawn by ALP/MCC Approved by TSD Drawing No. SD1.0	
Project No. 901824		BVH Job No. 21-14-059	

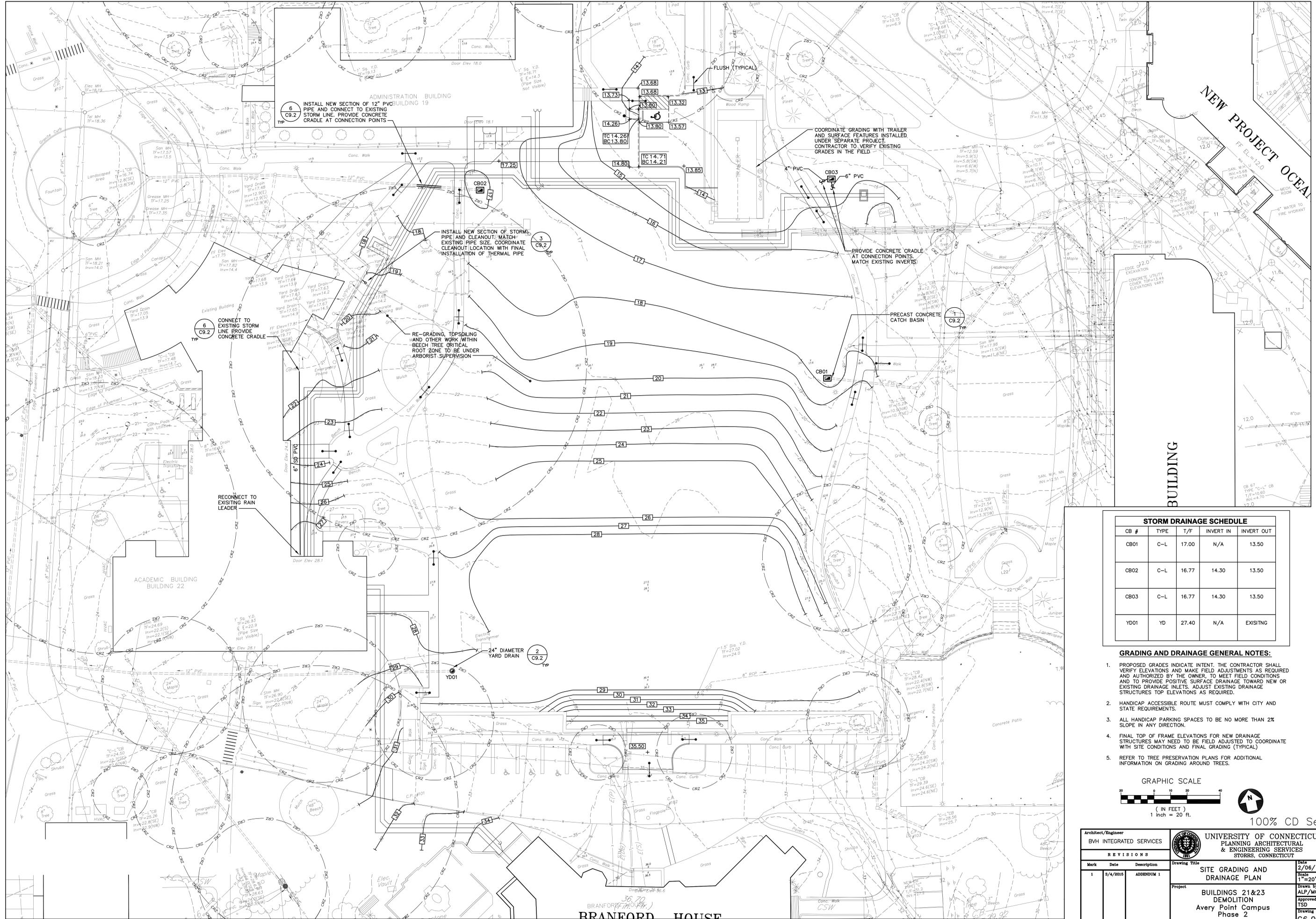
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Drawing Title HYDROLOGY POST-DEVELOPMENT			Scale 1"=40'
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Project No. 901824			Approved by TSD
BVI Job No. 21-14-059			Drawing No. SD2.0

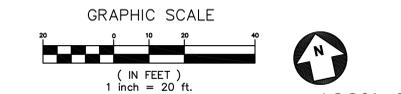
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STORM DRAINAGE SCHEDULE

CB #	TYPE	T/F	INVERT IN	INVERT OUT
CB01	C-L	17.00	N/A	13.50
CB02	C-L	16.77	14.30	13.50
CB03	C-L	16.77	14.30	13.50
YD01	YD	27.40	N/A	EXISTING

- GRADING AND DRAINAGE GENERAL NOTES:**
- PROPOSED GRADES INDICATE INTENT. THE CONTRACTOR SHALL VERIFY ELEVATIONS AND MAKE FIELD ADJUSTMENTS AS REQUIRED AND AUTHORIZED BY THE OWNER. TO MEET FIELD CONDITIONS AND TO PROVIDE POSITIVE SURFACE DRAINAGE TOWARD NEW OR EXISTING DRAINAGE INLETS. ADJUST EXISTING DRAINAGE STRUCTURES TOP ELEVATIONS AS REQUIRED.
 - HANDICAP ACCESSIBLE ROUTE MUST COMPLY WITH CITY AND STATE REQUIREMENTS.
 - ALL HANDICAP PARKING SPACES TO BE NO MORE THAN 2% SLOPE IN ANY DIRECTION.
 - FINAL TOP OF FRAME ELEVATIONS FOR NEW DRAINAGE STRUCTURES MAY NEED TO BE FIELD ADJUSTED TO COORDINATE WITH SITE CONDITIONS AND FINAL GRADING (TYPICAL)
 - REFER TO TREE PRESERVATION PLANS FOR ADDITIONAL INFORMATION ON GRADING AROUND TREES.



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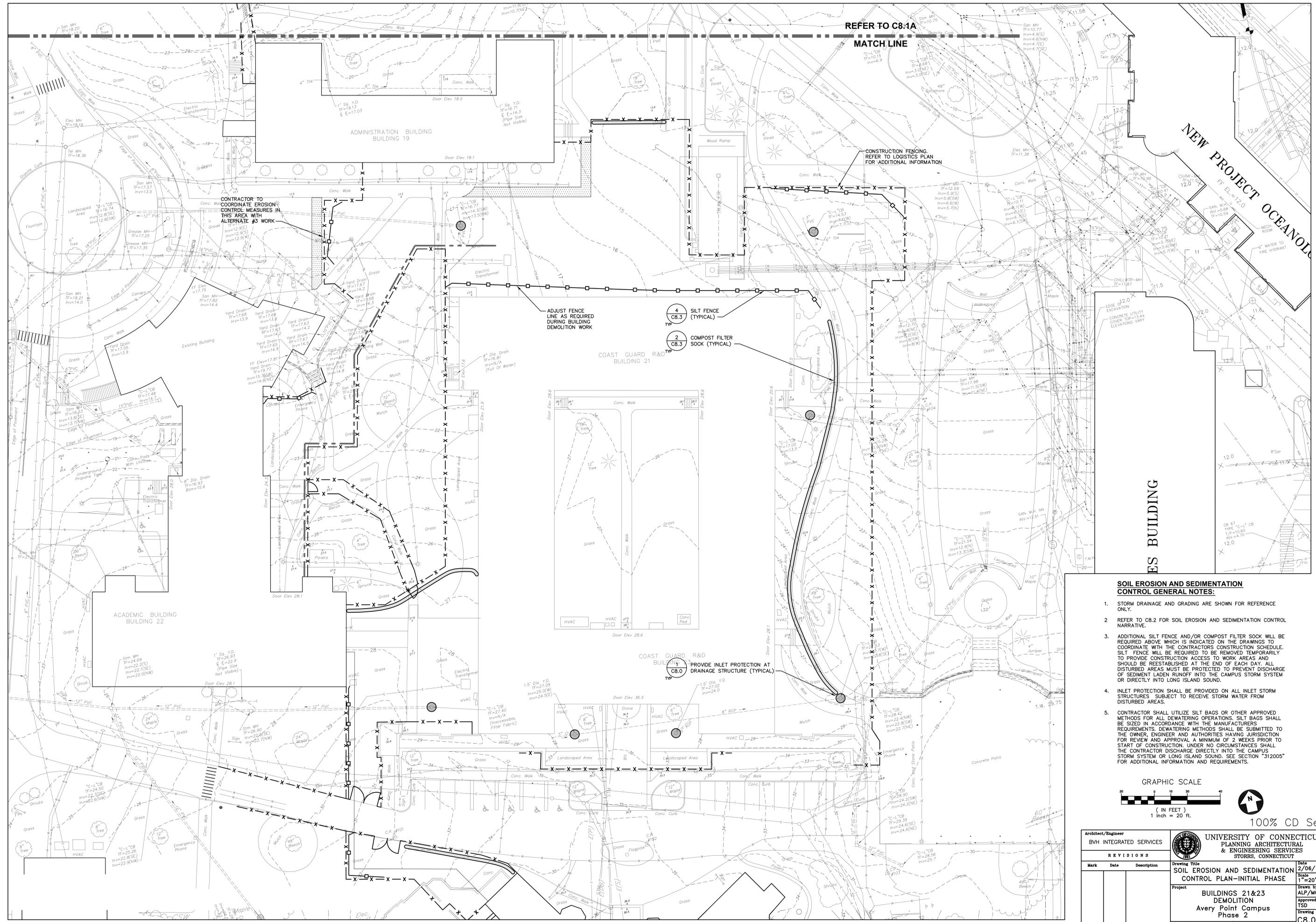
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REVISIONS			
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1	9/4/2015	ADDENDUM 1	SITE GRADING AND DRAINAGE PLAN
Project			Date
BUILDINGS 21&23 DEMOLITION Avery Point Campus Phase 2			2/06/15
Project No. 901824			Scale 1"=20'
BVI Job No. 21-14-059			Drawn by ALP/MCC
			Approved by TSD
			Drawing No. C6.0



Appendix D:

Soil Erosion and Sediment Control Plans, Narrative and Details

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REFER TO C8.1A
MATCH LINE

CONTRACTOR TO COORDINATE EROSION CONTROL MEASURES IN THIS AREA WITH ALTERNATE #3 WORK

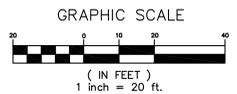
ADJUST FENCE LINE AS REQUIRED DURING BUILDING DEMOLITION WORK

- 4 SILT FENCE (TYPICAL)
CB.3
- 2 COMPOST FILTER SOCK (TYPICAL)
CB.3

PROVIDE INLET PROTECTION AT DRAINAGE STRUCTURE (TYPICAL)
CB.0

SOIL EROSION AND SEDIMENTATION CONTROL GENERAL NOTES:

1. STORM DRAINAGE AND GRADING ARE SHOWN FOR REFERENCE ONLY.
2. REFER TO C8.2 FOR SOIL EROSION AND SEDIMENTATION CONTROL NARRATIVE.
3. ADDITIONAL SILT FENCE AND/OR COMPOST FILTER SOCK WILL BE REQUIRED ABOVE WHICH IS INDICATED ON THE DRAWINGS TO COORDINATE WITH THE CONTRACTOR'S CONSTRUCTION SCHEDULE. SILT FENCE WILL BE REQUIRED TO BE REMOVED TEMPORARILY TO PROVIDE CONSTRUCTION ACCESS TO WORK AREAS AND SHOULD BE REESTABLISHED AT THE END OF EACH DAY. ALL DISTURBED AREAS MUST BE PROTECTED TO PREVENT DISCHARGE OF SEDIMENT LADEN RUNOFF INTO THE CAMPUS STORM SYSTEM OR DIRECTLY INTO LONG ISLAND SOUND.
4. INLET PROTECTION SHALL BE PROVIDED ON ALL INLET STORM STRUCTURES SUBJECT TO RECEIVE STORM WATER FROM DISTURBED AREAS.
5. CONTRACTOR SHALL UTILIZE SILT BAGS OR OTHER APPROVED METHODS FOR ALL DEWATERING OPERATIONS. SILT BAGS SHALL BE SIZED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. DEWATERING METHODS SHALL BE SUBMITTED TO THE OWNER, ENGINEER AND AUTHORITIES HAVING JURISDICTION FOR REVIEW AND APPROVAL A MINIMUM OF 2 WEEKS PRIOR TO START OF CONSTRUCTION. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR DISCHARGE DIRECTLY INTO THE CAMPUS STORM SYSTEM OR LONG ISLAND SOUND. SEE SECTION "312005" FOR ADDITIONAL INFORMATION AND REQUIREMENTS.



Architect/Engineer BVH INTEGRATED SERVICES		UNIVERSITY OF CONNECTICUT PLANNING ARCHITECTURAL & ENGINEERING SERVICES STORRS, CONNECTICUT	
REVISIONS		Drawing Title SOIL EROSION AND SEDIMENTATION CONTROL PLAN—INITIAL PHASE	
Mark	Date	Description	Date
			2/06/15
Project BUILDINGS 21&23 DEMOLITION Avery Point Campus Phase 2		Scale 1"=20'	
Project No. 901824		BVI Job No. 21-14-059	
		Drawn by ALP/MCC Approved by TSD Drawing No. C8.0A	

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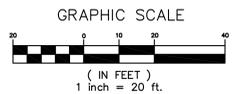


CONTRACTOR TO PROVIDE PERIMETER CONTROLS AND OTHER MEASURES AS REQUIRED FOR THE DURATION OF THE PROJECT IN THE LAYDOWN AREA

PROVIDE INLET PROTECTION AT DRAINAGE STRUCTURE (TYPICAL)

SOIL EROSION AND SEDIMENTATION CONTROL GENERAL NOTES:

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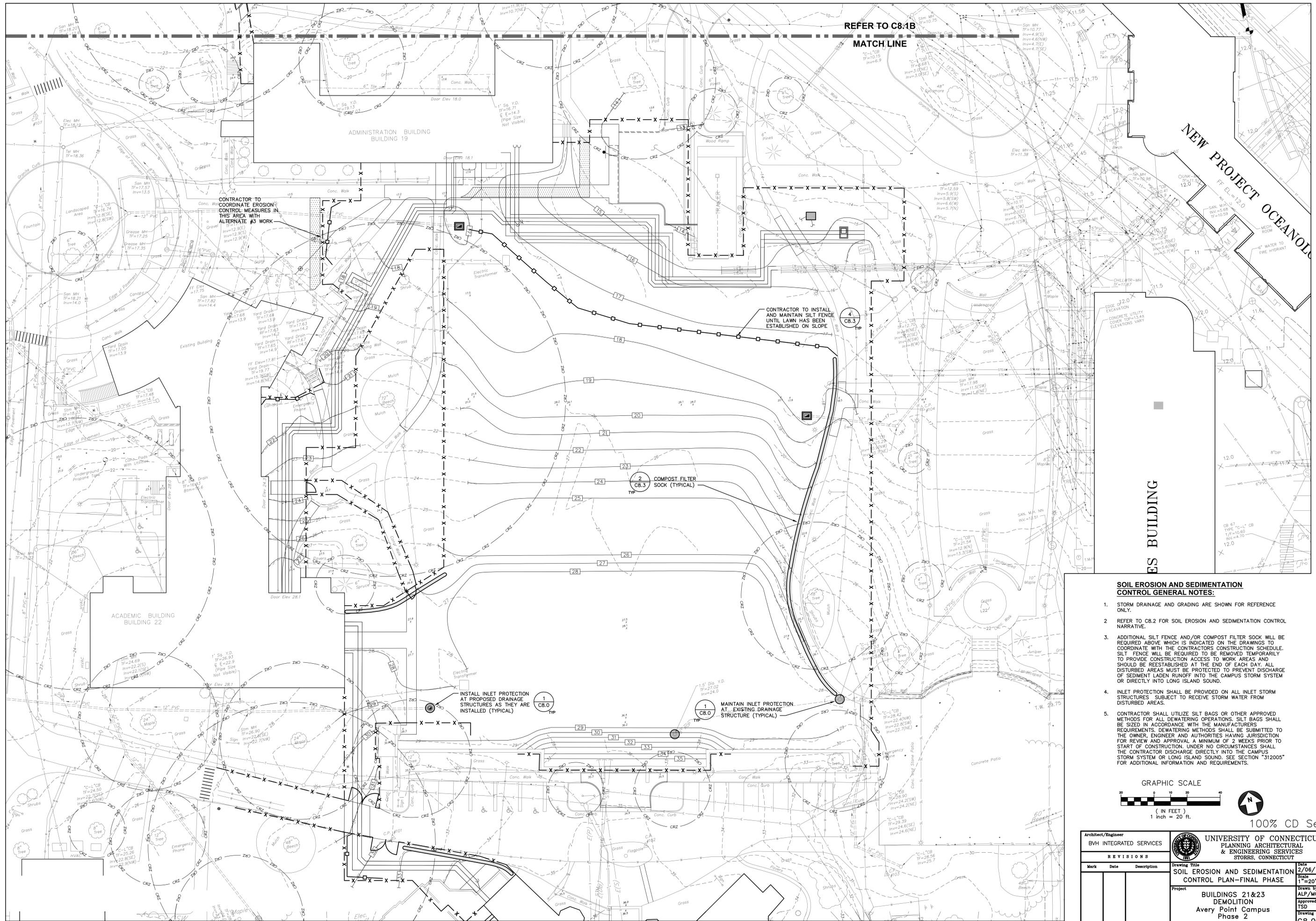
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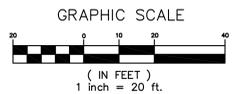
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REVISIONS			
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Project No. 901824		BVI Job No. 21-14-059	
		Drawn by ALP/MCC Approved by TSD Drawing No. C8.1A	

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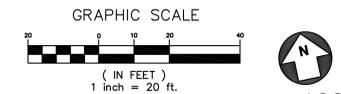
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Project No. 901824		Approved by TSD	
BWH Job No. 21-14-059		Drawing No. C8.0B	

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REVISIONS			
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Project			Scale 1"=20'
BUILDINGS 21&23 DEMOLITION Avery Point Campus Phase 2			Drawn by ALP/MCC
Project No. 901824			Approved by TSD
BWH Job No. 21-14-059			Drawing No. C8.1B

MATCH LINE
REFER TO C8.0B

GENERAL PERMIT FOR THE DISCHARGE OF STORMWATER AND DEWATERING WASTEWATERS FROM CONSTRUCTION ACTIVITIES REQUIREMENTS

INSPECTIONS

–PLAN IMPLEMENTATION:

THE EROSION AND SEDIMENT CONTROL COMPONENTS WILL REQUIRE INSPECTION THROUGHOUT THE PROJECT BY A QUALIFIED INSPECTOR

QUALIFIED INSPECTOR MEANS AN INDIVIDUAL POSSESSING EITHER:

- (1) A PROFESSIONAL LICENSE OR CERTIFICATION BY A PROFESSIONAL ORGANIZATION RECOGNIZED BY THE COMMISSIONER RELATED TO AGRONOMY, CIVIL ENGINEERING, LANDSCAPE ARCHITECTURE, SOIL SCIENCE, AND TWO YEARS OF DEMONSTRABLE AND FOCUSED EXPERIENCE IN EROSION AND SEDIMENT CONTROL PLAN READING, INSTALLATION, AND/OR REPORT WRITING FOR RESIDENTIAL AND COMMERCIAL CONSTRUCTION PROJECTS IN ACCORDANCE WITH THE GUIDELINES;
- (2) FIVE YEARS OF DEMONSTRABLE AND FOCUSED EXPERIENCE IN EROSION AND SEDIMENT CONTROL PLAN READING, INSTALLATION, INSPECTION AND/OR REPORT WRITING FOR RESIDENTIAL AND COMMERCIAL CONSTRUCTION PROJECTS IN ACCORDANCE WITH THE GUIDELINES
- (3) CERTIFICATION BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION (DOT).

THE IMPLEMENTATION PORTION OF THE GENERAL PERMIT REQUIRES UP TO 3 INSPECTIONS WITHIN THE FIRST 90 DAYS OF THE PROJECT. THE QUALIFIED INSPECTOR WILL BE REQUIRED TO REPORT ON THE CONDITIONS, WHETHER THEY ARE COMPLIANT OR DEFICIENT. IF THE PROJECT CONDITIONS ARE ACCEPTABLE AFTER THE FIRST, SECOND, OR THIRD INSPECTION THE PROJECT CAN MOVE FORWARD. IF THE CONDITIONS ARE STILL DEFICIENT AFTER THE THIRD INSPECTION THE QUALIFIED INSPECTOR IS REQUIRED TO REPORT THE FINDINGS TO THE CT DEEP WHO WILL THEN INTERVENE.

–ROUTINE INSPECTIONS:

THE PERMITTEE IS REQUIRED TO PERFORM ROUTINE INSPECTIONS FOR COMPLIANCE AS REQUIRED BY THE GENERAL PERMIT. THE ROUTINE INSPECTIONS SHALL CONTINUE UNTIL A NOTICE OF TERMINATION HAS BEEN SUBMITTED.

THE PERMITTEE SHALL MAINTAIN A RAIN GAUGE ON-SITE TO MONITOR AND DOCUMENT RAINFALL AMOUNTS.

A QUALIFIED INSPECTOR (PROVIDED BY THE PERMITTEE) SHALL ROUTINELY INSPECT ALL DISTURBED AREAS THAT HAVE NOT BEEN STABILIZED, ALL SEDIMENTATION AND EROSION CONTROL MEASURES, STOCKPILE AREAS, WASHOUT AREAS, SITE ENTRANCES/EXITS, ETC. INSPECTIONS SHALL OCCUR AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF AN EVENT THAT GENERATES A DISCHARGE.

FOR STORM EVENTS THAT OCCUR ON A WEEKEND OR HOLIDAY INSPECTIONS ARE REQUIRED WITHIN 24 HOURS ONLY FOR STORMS THAT EQUAL OR EXCEED 0.5 INCHES. INSPECTIONS THAT ARE LESS THAN 0.5 INCHES THE INSPECTION CAN OCCUR IMMEDIATELY AT THE START OF THE NEXT BUSINESS DAY.

–CORRECTIVE ACTIONS:

NON-ENGINEERED CORRECTIVE ACTIONS SHALL BE IMPLEMENTED ON SITE WITHIN 24 HOURS AND INCORPORATED INTO A REVISED PLAN WITHIN 5 CALENDAR DAYS OF THE DATE OF INSPECTION. ENGINEERED CORRECTIVE ACTIONS SHALL BE IMPLEMENTED ON SITE WITHIN 7 DAYS AND INCORPORATED INTO A REVISED PLAN WITHIN 10 DAYS OF THE DATE OF INSPECTION. DURING THE PERIOD IN WHICH ANY CORRECTIVE ACTIONS ARE BEING DEVELOPED AND HAVE NOT YET BEEN FULLY IMPLEMENTED, INTERIM MEASURES SHALL BE IMPLEMENTED TO MINIMIZE THE POTENTIAL FOR THE DISCHARGE OF POLLUTANTS FROM THE SITE.

FOR MORE SPECIFIC REQUIREMENTS REFER TO SECTION 5 (B) (4) OF THE GENERAL PERMIT.

MAINTENANCE

ALL EROSION AND SEDIMENT CONTROLS WILL BE MAINTAINED THROUGHOUT THE PROJECT. ALL COMPONENTS OF THE SEDIMENT AND EROSION CONTROLS WILL BE INSPECTED, REPAIRED, AND ENHANCED IF NECESSARY ROUTINELY THROUGHOUT THE COURSE OF THIS PROJECT. ALL DAMAGED SLOPES OR PROTECTIVE MEASURES SHALL BE REPAIRED AND RESTORED AS SOON AS POSSIBLE.

ALL PROTECTIVE MEASURES SHALL BE INSPECTED AND MAINTAINED PRIOR TO EACH FORECAST STORM EVENT IN ADDITION TO THE ROUTINE INSPECTIONS.

THE CONTRACTOR SHALL HAVE ADDITIONAL MATERIALS ON SITE THROUGHOUT THE PROJECT TO REPAIR OR REPLACE ALL COMPONENTS OF THE SEDIMENTATION AND EROSION CONTROL SYSTEM AT ANY TIME.

MAINTENANCE SHALL INCLUDE THE REPLACEMENT OF SEDIMENT COLLECTION AREAS, REMOVAL OF COLLECTED SEDIMENT, AND RESTORATION OF ALL MEASURES PROTECTING ADJACENT AREAS FROM RUNOFF DURING THE PROJECT.

TURBIDITY MONITORING

–MONITORING REQUIREMENTS:

THIS PROJECT REQUIRES REGISTRATION AND THEREFORE THE GENERAL PERMIT REQUIRES SAMPLING, MONITORING, AND REPORTING. SAMPLING AND ANALYSIS ARE PRESCRIBED IN 40 CFR PART 136.

–MONITORING FREQUENCY:

SAMPLING IS REQUIRED AT LEAST ONCE EVERY MONTH. WHEN FINAL STABILIZATION OF AN OUTFALL IS ACHIEVED TURBIDITY MONITORING IS NO LONGER REQUIRED.

–SAMPLING:

ALL SAMPLES SHALL BE COLLECTED FROM DISCHARGES RESULTING FROM A STORM EVENT THAT OCCURS AT LEAST 24 HOURS AFTER ANY PREVIOUS STORM EVENT GENERATING A STORMWATER DISCHARGE. ANY SAMPLE CONTAINING SNOW OR ICE MELT MUST BE IDENTIFIED AS SUCH AND, IN THE ABSENCE OF A STORM EVENT, IS NOT A VALID SAMPLE. SAMPLES SHALL BE GRAB SAMPLES TAKEN AT LEAST THREE SEPARATE TIMES DURING A STORM EVENT AND SHALL BE REPRESENTATIVE OF THE FLOW AND CHARACTERISTICS OF THE DISCHARGE. SAMPLES MAY BE TAKEN MANUALLY OR BY AN IN-SITU TURBIDITY PROBE OR OTHER AUTOMATIC SAMPLING DEVICE EQUIPPED TO TAKE INDIVIDUAL TURBIDITY READINGS. THE FIRST SAMPLE SHALL BE TAKEN WITHIN THE FIRST HOUR OF STORMWATER DISCHARGE, OR AT THE START OF NORMAL WORKING HOURS IF SAMPLES ARE MANUALLY COLLECTED AND DISCHARGE BEGAN OUTSIDE OF NORMAL WORKING HOURS.

–MONITORING REPORTS:

WITHIN 30 DAYS FOLLOWING THE END OF EACH MONTH, PERMITTEES SHALL ENTER THE STORMWATER SAMPLING RESULTS ON THE STORMWATER MONITORING REPORT (SMR) FORM, WHICH IS AVAILABLE ON THE CT DEEP WEBSITE. IF THERE WAS NO DISCHARGE DURING THE MONITORING PERIOD, THE PERMITTEE SHALL SUBMIT THE FORM WITH THE WORDS "NO DISCHARGE" ENTERED IN PLACE OF THE MONITORING RESULTS. IF THE PERMITTEE MONITORS A DISCHARGE MORE FREQUENTLY THAN REQUIRED BY THE GENERAL PERMIT, THE RESULTS SHALL BE INCLUDED IN ADDITIONAL SMRS FOR THAT MONTH.

PRIOR TO ONE-HUNDRED AND EIGHTY (180) DAYS AFTER THE ISSUANCE OF THIS PERMIT, THE PERMITTEE MAY EITHER SUBMIT MONITORING DATA AND OTHER REPORTS TO THE DEPARTMENT IN HARD COPY FORM OR ELECTRONICALLY USING NETDMR. AFTER ONE-HUNDRED AND EIGHTY (180) DAYS AFTER THE ISSUANCE OF THIS PERMIT THE PERMITTEE SHALL BEGIN REPORTING ELECTRONICALLY USING NETDMR.

FOR MORE SPECIFIC REQUIREMENTS REFER TO SECTION 5 (C) OF THE GENERAL PERMIT.

OTHER CONTROLS

–WASTE DISPOSAL:

THE CONTRACTOR WILL BE RESPONSIBLE FOR THE PROPER HANDLING AND DISPOSAL OF CONSTRUCTION WASTE AND DEBRIS. ALL WASTE MATERIAL SHALL BE DISPOSED OF OFF-SITE ACCORDING TO ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

–WASHOUT AREAS:

IF ON SITE WASHOUT OF CONTAINERS, VEHICLES, EQUIPMENT, APPLICATORS ETC WILL TAKE PLACE, THE CONTRACTOR SHALL SET UP DESIGNATED WASHOUT AREAS OUTSIDE ANY BUFFER AND AT LEAST 50 FEET FROM ANY STREAM OR OTHER SENSITIVE RESOURCE. WASHOUT AREAS SHALL BE FLAGGED AND ALL WATER USED FOR WASHING SHALL BE DIRECTED INTO A DESIGNATED CONTAINER OR PIT. DUMPING OF WASTE WASH WATER INTO STORM SEWERS IS NOT PERMITTED. WASTE WATER FOR WASHING SHALL BE DISPOSED OF PER ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

–SEDIMENT TRACKING AND DUST CONTROL:

STONE CONSTRUCTION ENTRANCES AND STONE HAUL ROADS SHALL BE INSTALLED AND MAINTAINED WHERE VEHICLES ENTER OR LEAVE THE SITE AND ON ACCESS ROADS THROUGHOUT THE SITE. INLET PROTECTION SHALL BE INSTALLED AS SHOWN ON SEDIMENT AND EROSION CONTROL PLANS.

DUST SUPPRESSION SHALL BE PROVIDED IN ACCORDANCE WITH THE EROSION CONTROL SPECIFICATIONS, AND 22A-174-18B OF THE CONNECTICUT GENERAL STATUTES FOR ANY CONSTRUCTION ACTIVITY THAT CAUSES AIRBORNE PARTICULATES.

–CHEMICAL AND PETROLEUM STORAGE:

ALL CHEMICAL AND PETROLEUM PRODUCT CONTAINERS STORED ON THE SITE (EXCLUDING THOSE CONTAINED WITHIN VEHICLES AND EQUIPMENT) SHALL BE PROVIDED WITH IMPERMEABLE CONTAINMENT WHICH WILL HOLD AT LEAST 110% OF THE VOLUME OF THE LARGEST CONTAINER, OR 10% OF THE TOTAL VOLUME OF ALL CONTAINERS IN THE AREA, WHICHEVER IS LARGER, WITHOUT OVERFLOW FROM THE CONTAINMENT AREA. ALL CHEMICALS AND THEIR CONTAINERS SHALL BE STORED UNDER A COVERED AREA EXCEPT FOR THOSE CHEMICALS STORED IN CONTAINERS OF 100 GALLON CAPACITY OR MORE, IN WHICH CASE A ROOF IS NOT REQUIRED. DOUBLE-WALLED TANKS SATISFY THIS REQUIREMENT.

KEEPING THE PLAN CURRENT

THE PERMITTEE IS RESPONSIBLE FOR KEEPING THEIR PLAN IN COMPLIANCE WITH THIS GENERAL PERMIT AT ALL TIMES. THIS MAY INVOLVE ANY OR ALL OF THE FOLLOWING:

THE PERMITTEE SHALL AMEND THE PLAN IF THE ACTIONS REQUIRED BY THE PLAN FAIL TO PREVENT POLLUTION OR FAIL TO OTHERWISE COMPLY WITH ANY OTHER PROVISION OF THIS GENERAL PERMIT. THE PLAN SHALL ALSO BE AMENDED WHENEVER THERE IS A CHANGE IN CONTRACTORS OR SUBCONTRACTORS AT THE SITE, OR A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE AT THE SITE WHICH HAS THE POTENTIAL FOR THE DISCHARGE OF POLLUTANTS TO THE WATERS OF THE STATE AND WHICH HAS NOT OTHERWISE BEEN ADDRESSED IN THE PLAN.

THE COMMISSIONER MAY NOTIFY THE PERMITTEE AT ANY TIME THAT THE PLAN AND/OR THE SITE DO NOT MEET ONE OR MORE OF THE MINIMUM REQUIREMENTS OF THE GENERAL PERMIT. WITHIN 7 DAYS OF SUCH NOTICE, OR SUCH OTHER TIME AS THE COMMISSIONER MAY ALLOW, THE PERMITTEE SHALL MAKE THE REQUIRED CHANGES TO THE PLAN AND PERFORM ALL ACTIONS REQUIRED BY SUCH REVISED PLAN. WITHIN 15 DAYS OF SUCH NOTICE, OR SUCH OTHER TIME AS THE COMMISSIONER MAY ALLOW, THE PERMITTEE SHALL SUBMIT TO THE COMMISSIONER A WRITTEN CERTIFICATION THAT THE REQUESTED CHANGES HAVE BEEN MADE AND IMPLEMENTED AND SUCH OTHER INFORMATION AS THE COMMISSIONER REQUIRES, IN ACCORDANCE WITH THE "DUTY TO PROVIDE INFORMATION" AND "CERTIFICATION OF DOCUMENTS" SECTIONS OF THE GENERAL PERMIT.

RECORDS KEEPING AND TERMINATION

THE PERMITTEE SHALL RETAIN COPIES OF THE PLAN AND ALL REPORTS REQUIRED BY THE GENERAL PERMIT, AND ALL RECORDS USED TO COMPLETE THE REGISTRATION FOR THIS GENERAL PERMIT, FOR A PERIOD OF 5 YEARS FROM THE DATE THAT CONSTRUCTION IS COMPLETE. INSPECTION RECORDS MUST BE RETAINED FOR 5 YEARS AFTER THE DATE OF INSPECTION. A SAMPLE INSPECTION REPORT IS INCLUDED ON THIS DRAWING. A COPY OF THIS PLAN SHALL BE RETAINED AT THE SITE UNTIL CONSTRUCTION IS COMPLETE.

AT COMPLETION OF CONSTRUCTION A NOTICE OF TERMINATION MUST BE FILED WITH THE COMMISSIONER. A PROJECT SHALL BE CONSIDERED COMPLETE AFTER ALL POST-CONSTRUCTION MEASURES AND DRAINAGE STRUCTURES ARE INSTALLED, CLEANED, AND FUNCTIONING AND THE SITE HAS BEEN STABILIZED FOR AT LEAST 3 MONTHS. CLEANING SHALL INCLUDE REMOVAL OF TRASH, DEBRIS, SEDIMENT ETC FROM CATCH BASINS, DRAINS, MANHOLES, DETENTION SYSTEMS, HYDRODYNAMIC SEPARATORS, SWALES AND PIPING.

A SITE IS CONSIDERED STABILIZED WHEN THERE IS NO ACTIVE EROSION OR SEDIMENTATION PRESENT AND NO DISTURBED AREAS REMAIN EXPOSED FOR ALL PHASES AND SILT FENCE AND OTHER TEMPORARY MEASURES ARE REMOVED.

ONCE THE SITE HAS BEEN STABILIZED FOR AT LEAST 3 MONTHS, THE REGISTRANT SHALL HAVE THE SITE INSPECTED BY A QUALIFIED INSPECTOR TO CONFIRM FINAL STABILIZATION. THE REGISTRANT SHALL INDICATE COMPLIANCE WITH THIS REQUIREMENT ON THE NOTICE OF TERMINATION FORM.

A FINAL COPY OF THE STORMWATER POLLUTION CONTROL PLAN AND ALL INSPECTION RECORDS SHALL BE SUBMITTED TO THE DESIGN ENGINEER AND REGISTRANT.

GENERAL GUIDELINES AND PRINCIPALS

1. THE CONTRACTOR IS ASSIGNED THE RESPONSIBILITY FOR IMPLEMENTING THE EROSION AND SEDIMENT CONTROL PLAN. THIS RESPONSIBILITY INCLUDES THE INSTALLATION AND MAINTENANCE OF CONTROL MEASURES, INFORMING ALL PARTIES OF ENGAGED ON THE CONSTRUCTION SITE OF THE REQUIREMENTS AND OBJECTIVES OF THE PLAN.
2. THE OBJECTIVE IS TO MINIMIZE THE AMOUNT OF SEDIMENT-LADEN RUNOFF THROUGH IMPLEMENTATION OF A VARIETY OF CONVENTIONAL SOIL SEDIMENTATION AND EROSION CONTROL PRACTICES RECOMMENDED BY THE LATEST REVISION OF THE LOCAL AND STATE GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL. PROCEDURES AND APPLICATION TECHNIQUES SHALL CONFORM TO THE ABOVE MENTIONED GUIDELINES. THE DETAILS SHOWN ON THE CONTRACT DRAWINGS AND THE CT DEEP GENERAL PERMIT FOR THE DISCHARGE OF STORMWATER AND DEWATERING WASTEWATERS FROM CONSTRUCTION ACTIVITIES (GENERAL PERMIT).
3. EXISTING TREES TO REMAIN MUST BE PROTECTED. DO NOT PARK OR STORE MATERIALS UNDER TREES. DO NOT DIRECT RUNOFF OR ALLOW SILT TO EXTEND UNDER TREES. AVOID DAMAGE TO TRUNKS AND BRANCHES. CONTRACTOR MUST CLEAN UP EDGE BEFORE LEAVING SITE.
4. STAGE CONSTRUCTION ACTIVITIES SUCH THAT ONLY THOSE AREAS OF THE SITE SCHEDULED FOR IMMEDIATE DEVELOPMENT ARE DISTURBED AND ACTIVITIES SCHEDULED FOR LATER DEVELOPMENT ARE NOT STARTED PREMATURELY. RE-STABILIZATION SHALL BE SCHEDULED IMMEDIATELY AFTER DISTURBANCE.
5. EARTH DISTURBANCE SHOULD BE TIMED TO MINIMIZE POTENTIAL IMPACTS CAUSED BY SEASONAL WEATHER CHANGES AND SCHEDULED FOR PERIODS WHEN SOIL SATURATION IS LOW AND SOIL LOSS HAZARD IS AT MINIMUM RISK.
6. SUSPEND EARTHWORK CONSTRUCTION ACTIVITIES FOR MAJOR STORM EVENTS AND IMPLEMENT ADDITIONAL SEDIMENTATION AND EROSION CONTROL MEASURES, AS NECESSARY.
7. THERE WILL BE NO LARGE CUTS OR FILLS LEFT AS "RAW" AREAS. SUB-GRADE WILL BE ACHIEVED AS SOON AS POSSIBLE AND AN ESTABLISHED PROCEDURE OF TEMPORARY SEEDING AND/OR COVER WITH EROSION PROTECTION (EROSION CONTROL BLANKETS FOR SLOPES AND MULCH OR EROSION CONTROL BLANKETS FOR FLAT AREAS); WILL BE FOLLOWED TO INSURE MINIMAL SOIL LOSS.
8. ALL SURFACES DESIGNATED FOR PAVING WILL HAVE THE SUB-BASE, BASE AND BINDER INSTALLED AS SOON AS POSSIBLE. WHERE FEASIBLE THE STORM DRAINAGE SYSTEM WILL BE INSTALLED TO PROVIDE CONTROL OF SURFACE RUNOFF.
9. PROVIDE SILT FENCE BARRIER AROUND STOCKPILES
10. EROSION CHECK DAMS CONSENT OF STONE, SILT FENCE OR HAYBALES SHALL BE INSTALLED TO PREVENT SILTATION DOWNGRADE OF CONSTRUCTION.
11. SILT FENCE FABRIC BARRIERS SHALL BE INSTALLED AT ALL OUTLETS AND ALONG TOE OF CRITICAL SLOPES.
12. FLARED END DISCHARGE AREAS SHALL BE PROTECTED WITH RIP RAP PADS. ENERGY DISSIPATORS WILL BE PROVIDED AS NECESSARY.
13. INLET STRUCTURES (EXISTING AND PROPOSED) SHALL BE PROTECTED WITH FILTER FABRIC BARRIERS INSTALLED BETWEEN GRATE AND FRAME AS WELL AS SURROUNDING STRUCTURE IN SOFTSCAPE AREAS.
14. CREATE TEMPORARY SEDIMENT TRAPS AS NECESSARY WITHIN WORK AREA AND SIZED AT 3,600 CF/ACRE CONTRIBUTING.
15. INSTALL RIP RAP OR GRASS LINED SWALES TO DIRECT DRAINAGE TO TEMPORARY SEDIMENT TRAPS.
16. ADDITIONAL CONTROL MEASURES SHALL BE INSTALLED DURING THE CONSTRUCTION PERIOD IS NECESSARY OR REQUIRED.
17. WHEN RIPRAP IS USED, PROVIDE FABRIC BETWEEN SOIL AND RIPRAP
18. IN AREAS OF GENERAL FILLS, PITCH SLOPE AWAY FROM EDGE OF FILL SLOPE DURING CONSTRUCTION EACH NIGHT. GRADE LAND TOWARD RIPRAP SWALES AT END OF EACH NIGHT.
19. PROTECT STREET SIDE OF CONSTRUCTION ENTRANCES AT END OF THE WORK DAY BY SILT FENCE FABRIC, HAYBALES OR STONE BERMS.
20. AS TOPOGRAPHY CHANGES, DIRECT STORM WATER RUNOFF TO TEMPORARY SEDIMENT TRAPS.
21. PITCH ALL WATER AT END OF EACH WORK DAY INTO TEMPORARY SEDIMENT TRAPS. VEHICLES SHALL BE WASHED OFF IN AREAS THAT DO NOT RESULT IN SEDIMENT OR OTHER MATERIALS LEAVING THE SITE. NO VEHICLES SHALL BE WASHED UNDER TREES, ON ROADS, OR IN SENSITIVE AREAS OF THE SITE.
22. MAINTAIN CONSTRUCTION ENTRANCES AND HAUL ROADS REGULARLY. REMOVE AND REPLACE STONE SURFACE AS NECESSARY.
23. SEDIMENT REMOVAL FROM CONTROL MEASURES SHALL BE DISPOSED OF IN A MANNER WHICH IS CONSISTENT WITH THE INTENT OF THE PLAN.
24. PROVIDE STREET SWEEPING ON A REGULAR BASIS.
25. ON-SITE TRUCKS SHALL HAVE COVERS TO MINIMIZE DUST.

STAGE I:

- A. IMMEDIATELY AFTER MOBILIZATION BUT PRIOR TO INITIATING ANY SOIL-DISTURBING ACTIVITIES THE CONTRACTOR SHALL MAKE A GENERAL SITE ASSESSMENT TO ESTABLISH CONSTRUCTION LIMITS. DESIGNATE CONSTRUCTION ENTRANCES AND MAIN HAUL ROADS WITHIN THE SITE AND INSTALL ALL SPECIFIED SOIL EROSION AND SEDIMENT CONTROL MEASURES.

STAGE II:

- A. CLEAR SITE AS REQUIRED ACCOMMODATING THE CONSTRUCTION. LEGALLY CUT AND CHIP BRUSH AND REMOVE STUMPS FROM THE SITE. TO BE DISPOSED OF IN A PROPER MANNER. THE OWNER'S PERMISSION IS REQUIRED BEFORE CLEARING BANYON TREE LINE OR WOODED AREA DEFINED ON THE PLANS.
- B. ADDRESS ALL STOCKPILE MATERIAL AS INDICATED IN THE EROSION CONTROL SPECIFICATION.
- C. EXCAVATE SITE TO SUB GRADE AND INSTALL ALL REQUIRED MEASURES TO STABILIZE THE SITE AND PREVENT SOIL EROSION AND CONTROL SOIL SEDIMENTATION. NO RAW CUTS OR FILL SHALL BE LEFT EXPOSED TO THE ELEMENTS. IF NO WORK IS ANTICIPATED WITHIN A TWO (2) WEEK PERIOD, OR IF SIGNIFICANT RAINFALL IS ANTICIPATED, COVER EXPOSED AREAS AS INDICATED IN THE APPLICATION/GENERAL PROCEDURE.

STAGE III:

- A. SURVEY, STAKE, AND PLACE NEW IMPROVEMENTS IDENTIFIED WITHIN THE WORK AREA AND AS SHOWN ON THE CONTRACT DRAWINGS.
- B. MAINTAIN, CLEAN AND REPAIR EROSION CONTROL AND SEDIMENT PROTECTION MEASURES AS RECOMMENDED BY THE LATEST REVISION OF THE LOCAL AND STATE GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.

STAGE IV:

- A. RESPREAD TOPSOIL TO DESIGNATED AREAS.
- B. INSTALL NEW PLANTING. BEGIN WITH THE SITE PERIMETER PLANTING IN BUFFER YARDS TO ACHIEVE EARLY STABILIZATION, AND THEN PLANT SITE INTERIOR AREAS AND FINALLY PLACE SEED.
- C. CLEAN UP SITE BUT LEAVE REMAINING EROSION CONTROL AND SEDIMENT PROTECTION MEASURES IN PLACE UNTIL SITE IS STABILIZED AS APPROVED BY THE ENGINEER.
- D. MAINTAIN, CLEAN AND REPAIR EROSION CONTROL AND SEDIMENT PROTECTION MEASURES AS RECOMMENDED BY THE LATEST REVISION OF THE LOCAL AND STATE GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.

RECOMMENDED POST-CONSTRUCTION OWNER MAINTENANCE

THE RECOMMENDATIONS BELOW ARE FOR THE OWNER'S REFERENCE AND USE IN CREATING A LONG TERM MAINTENANCE PLAN FOR THE STORMWATER SYSTEM. THE CONTRACTOR IS RESPONSIBLE FOR THE INITIAL CLEANING AS NOTED IN THE RECORDS KEEPING AND TERMINATION SECTION OF THE GENERAL PERMIT REQUIREMENTS ON THIS SHEET. LONG TERM CLEANING IS THE RESPONSIBILITY OF THE OWNER.

CATCH BASINS/INLET STRUCTURES

- TRASH AND DEBRIS SHALL BE REMOVED FROM CATCH BASIN GRATES AS OFTEN AS NECESSARY TO ENSURE SYSTEM CAN COLLECT/INTERCEPT RUNOFF.
- STRUCTURES SHALL BE CLEANED TWICE PER YEAR, REMOVING ALL SEDIMENT FROM SUMPS AND DISPOSING OF MATERIAL IN ACCORDANCE WITH LOCAL REGULATIONS.
- VISUAL INSPECTION OF BASIN INTEGRITY AND ASSOCIATED COMPONENTS SHALL BE PERFORMED DURING CLEANING AND REPLACED OR REPAIRED AS NECESSARY.
- DURING DRY FLOW PERIODS, WASH OUT DRAIN PIPES AND CLEAN CATCH BASINS TO MINIMIZE FUTURE RE-SUSPENSION.
- A MAINTENANCE LOG SHOULD BE KEPT WITH AMOUNT OF SEDIMENT REMOVED, THE DATE IT WAS REMOVED AND A BRIEF DESCRIPTION OF THE CONDITION OF THE STRUCTURE.

HYDRODYNAMIC SEPARATOR WATER QUALITY STRUCTURE

- STRUCTURES SHALL BE INSPECTED FOR ACCUMULATED SEDIMENT ON A QUARTERLY BASIS AND CLEANED WHEN THE DEPTH OF SEDIMENT IS IN EXCESS OF ONE FOOT. COLLECTED SEDIMENT SHALL BE DISPOSED OF IN ACCORDANCE WITH LOCAL REGULATIONS.
- A MAINTENANCE LOG SHOULD BE KEPT WITH AMOUNT OF SEDIMENT REMOVED, THE DATE IT WAS REMOVED AND A BRIEF DESCRIPTION OF THE CONDITION OF THE STRUCTURE.

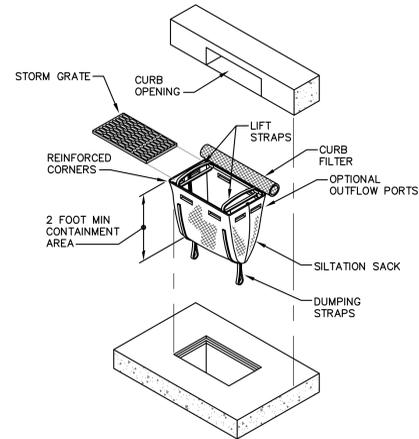
SITE EROSION CONTROL CHECKLIST					
PROJECT:	BY:				
LOCATION:	DATE:				
AREA INSPECTED:					
	OVERALL CONDITION	NEED REPAIR	G=GOOD, F=FAIR, P=POOR, Y=YES, N=NO COMMENTS:		
DEWATERING INFILTRATION BASINS	G	F	P	Y	N
SILT FENCE	G	F	P	Y	N
CONTINUOUS BERM	G	F	P	Y	N
DRAIN/INLET PROTECTION	G	F	P	Y	N
TREE PROTECTION	G	F	P	Y	N
TOPSOILING	G	F	P	Y	N
LAND GRADING	G	F	P	Y	N
SURFACE ROUGHENING	G	F	P	Y	N
DUST CONTROL	G	F	P	Y	N
TEMPORARY SEEDING	G	F	P	Y	N
PERMANENT SEEDING	G	F	P	Y	N
SODDING	G	F	P	Y	N
LANDSCAPE PLANING	G	F	P	Y	N
TEMPORARY SOIL PROTECTION	G	F	P	Y	N
MULCH FOR SEED	G	F	P	Y	N
LANDSCAPE MULCH	G	F	P	Y	N
TEMPORARY EROSION CONTROL BLANKET	G	F	P	Y	N
PERMANENT TURF REINFORCEMENT MAT	G	F	P	Y	N
STONE SLOPE PROTECTION	G	F	P	Y	N
RETAINING WALLS	G	F	P	Y	N
RIP RAP	G	F	P	Y	N
PERMANENT SLOPE DRAIN	G	F	P	Y	N
CHANNEL GRADE STABILIZATION STRUCTURE	G	F	P	Y	N
TEMPORARY LINED CHUTE	G	F	P	Y	N
TEMPORARY PIPE SLOPE DRAIN	G	F	P	Y	N
VEGETATED WATERWAY	G	F	P	Y	N
TEMPORARY LINED CHANNEL	G	F	P	Y	N
PERMANENT LINED WATERWAY	G	F	P	Y	N
TEMPORARY FILL BERM	G	F	P	Y	N
WATER BAR	G	F	P	Y	N
TEMPORARY DIVERSION	G	F	P	Y	N

	OVERALL CONDITION	NEED REPAIR	G=GOOD, F=FAIR, P=POOR, Y=YES, N=NO COMMENTS:		
PERMANENT DIVERSION	G	F	P	Y	N
SUBSURFACE DRAIN	G	F	P	Y	N
DETENTION BASIN	G	F	P	Y	N
LEVEL SPREADER	G	F	P	Y	N
OUTLET PROTECTION	G	F	P	Y	N
STONE CHECK DAM	G	F	P	Y	N
TEMPORARY SEDIMENT BASIN	G	F	P	Y	N
TEMPORARY SEDIMENT TRAP	G	F	P	Y	N
HAY BALE BARRIER	G	F	P	Y	N
GEOTEXTILE SILT FENCE	G	F	P	Y	N
VEGETATIVE FILTER	G	F	P	Y	N
CONSTRUCTION ENTRANCE	G	F	P	Y	N
PUMP INTAKE AND OUTLET PROTECTION	G	F	P	Y	N
PUMPING SETTLING BASIN	G	F	P	Y	N
PORTABLE SEDIMENT TANK	G	F	P	Y	N
DEWATERING OF EARTH MATERIALS	G	F	P	Y	N
ARE CONTROLLED RELEASES OF MUD OR MUDDY WATER FROM THE SITE EVIDENT?			YES	NO	
IF YES, WHAT CORRECTIVE ACTIONS ARE RECOMMENDED?					
ARE DEPOSITS OF SEDIMENT EVIDENT ON ADJACENT OFF-SITE STREETS OR PROPERTIES?			YES	NO	
IF YES, WHAT CORRECTIVE ACTIONS ARE RECOMMENDED?					
	OVERALL CONDITION	NEED REPAIR	G=GOOD, F=FAIR, P=POOR, Y=YES, N=NO COMMENTS:		
STAGING REMOVAL OF VEGETATION	G	F	P	Y	N
NEW VEGETATION ESTABLISHMENT	G	F	P	Y	N
MULCH AND/OR BFM PROTECTION	G	F	P	Y	N
SOIL BINDER PROTECTION	G	F	P	Y	N
HILLSIDE REC'P'S	G	F	P	Y	N
DRAINAGE CHANNEL ECB'S	G	F	P	Y	N
RIP RAP	G	F	P	Y	N
ADDITIONAL COMMENTS:					
INSPECTION COMPLETED ON:	BY:				
I CERTIFY THIS INSPECTION WAS COMPLETED BY MYSELF OF UNDER MY SUPERVISION:					
DATE:					

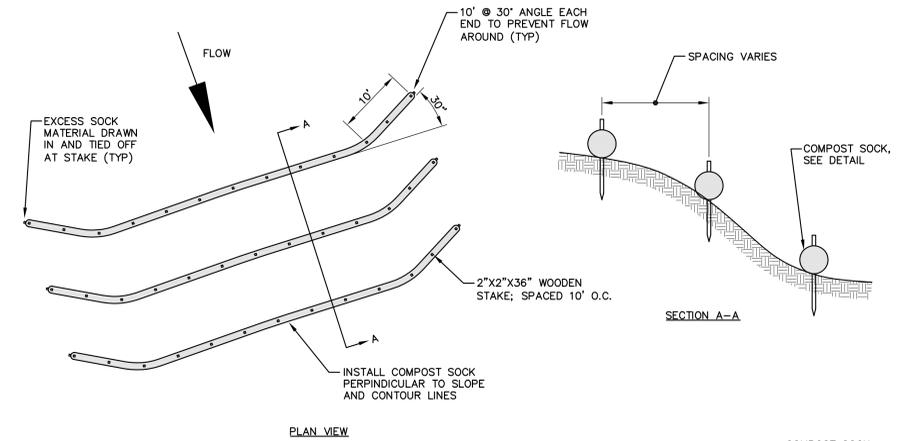
MAINTENANCE SCHEDULE FOR TEMPORARY SEDIMENTATION AND EROSION CONTROL MEASURES		
TYPE	INSPECTION SCHEDULE	REPAIR SCHEDULE
INLET PROTECTION	MINIMUM ONCE PER WEEK AND AFTER STORM EVENTS OF 0.5 INCHES OR GREATER	REPLACE DAMAGED SILTATION SACK IMMEDIATELY AND REMOVE SEDIMENT WHEN DEPTH EQUALS ½ DEPTH OF CONTAINMENT AREA
COMPOST SOCK	MINIMUM ONCE PER WEEK AND AFTER STORM EVENTS OF 0.5 INCHES OR GREATER	REPLACE IMMEDIATELY AND REMOVE SEDIMENT WHEN DEPTH EQUALS ½ HEIGHT OF COMPOST SOCK
SILT FENCE	MINIMUM ONCE PER WEEK AND AFTER STORM EVENTS OF 0.5 INCHES OR GREATER	REPLACE IMMEDIATELY AND REMOVE SEDIMENT WHEN DEPTH EQUALS ½ HEIGHT OF FENCE
STABILIZED LAYDOWN AREA	MINIMUM ONCE PER WEEK AND AFTER STORM EVENTS OF 0.5 INCHES OR GREATER	REPAIR IMMEDIATELY REMOVE ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO NEARBY PAVED SURFACES

Architect/Engineer		UNIVERSITY OF CONNECTICUT PLANNING ARCHITECTURAL & ENGINEERING SERVICES STORRS, CONNECTICUT	
BVI INTEGRATED SERVICES		DATE: 2/06/15	
REVISIONS		Scale AS NOTED	
Mark	Date	Description	
Project		SOIL EROSION AND SEDIMENT CONTROL NARRATIVE	
Project		BUILDINGS 21&23 DEMOLITION Avery Point Campus Phase 2	
Project No.	BVI Job No.	Drawing No. C8.2	
901824	21-14-059		

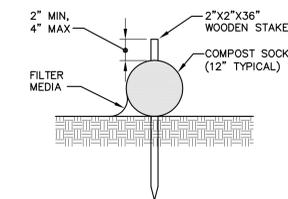
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1 **INLET PROTECTION DETAIL AT CATCH BASIN**
CB.3 / NOT TO SCALE

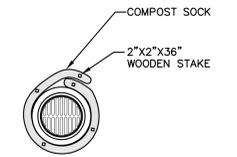


PLAN VIEW



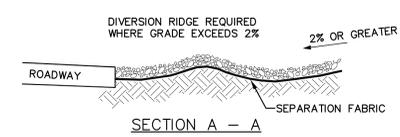
COMPOST SOCK DETAIL

SLOPE INSTALLATION

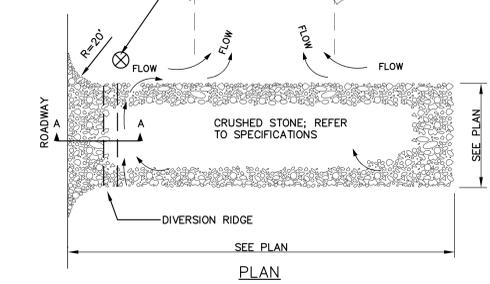
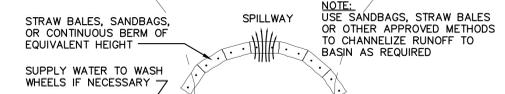


CATCH BASIN INSTALLATION (GRASS AREAS)

2 **COMPOST FILTER SOCK DETAIL**
CB.3 / NOT TO SCALE

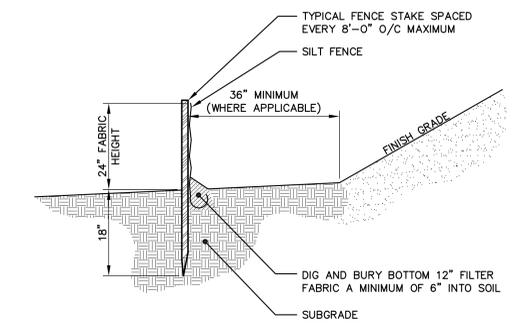


SECTION A - A

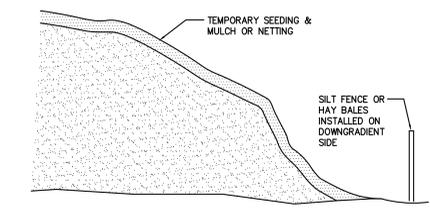


- NOTES:
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT.
 2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
 3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

3 **TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT**
CB.3 / NOT TO SCALE



4 **TYPICAL SILT FENCE**
CB.3 / NOT TO SCALE



5 **TEMPORARY STOCKPILE DETAIL**
CB.3 / NOT TO SCALE

100% CD Set

Architect/Engineer BVH INTEGRATED SERVICES		UNIVERSITY OF CONNECTICUT PLANNING ARCHITECTURAL & ENGINEERING SERVICES STORRS, CONNECTICUT	
REVISIONS			
Mark	Date	Description	Date
			2/06/15
Drawing Title SOIL EROSION AND SEDIMENT CONTROL DETAILS			Scale AS NOTED
Project BUILDINGS 21&23 DEMOLITION Avery Point Campus Phase 2			Drawn by ALP/MCC
Project No. 901824			Approved by TSD
BVI Job No. 21-14-059			Drawing No. C8.3



Appendix E:

Soil/Rock Probes

UCONN Avery Point Campus

Groton, CT

Soil/Rock Probes

Probe #	Depth	Probe #	Depth
1	15.0' BOP	20	9.0' REF
2	10.0' REF	21	8.5' REF
3	x	22	10.0' REF
4	x	23	10.0' REF
5	x	24	x
6	12.0' BOP	25	x
7	12.0' BOP	26	x
8	10.0' REF	27	x
9	12.0' BOP	28	x
10	12.0' BOP	29	7.0' REF
11	12.0' BOP	30	x
12	13.0' REF	31	3.5' REF
13	12.0' BOP	32	3.5' REF
14	12.0' BOP	33	4.8' REF
15	12.0' BOP	34	2.5' REF
16	12.0' BOP	35	3.5' REF
17	9.0' REF	36	x
18	8.5' REF		
19	12.0' REF		

Notes: The probes designated with an "x" were not drilled. Probes 24 thru 28 were located in an existing construction zone and probes #s 3 thru 5, 30 & 36 has potential conflicts with existing utilities. Probe #2 was offset about 15 feet east.

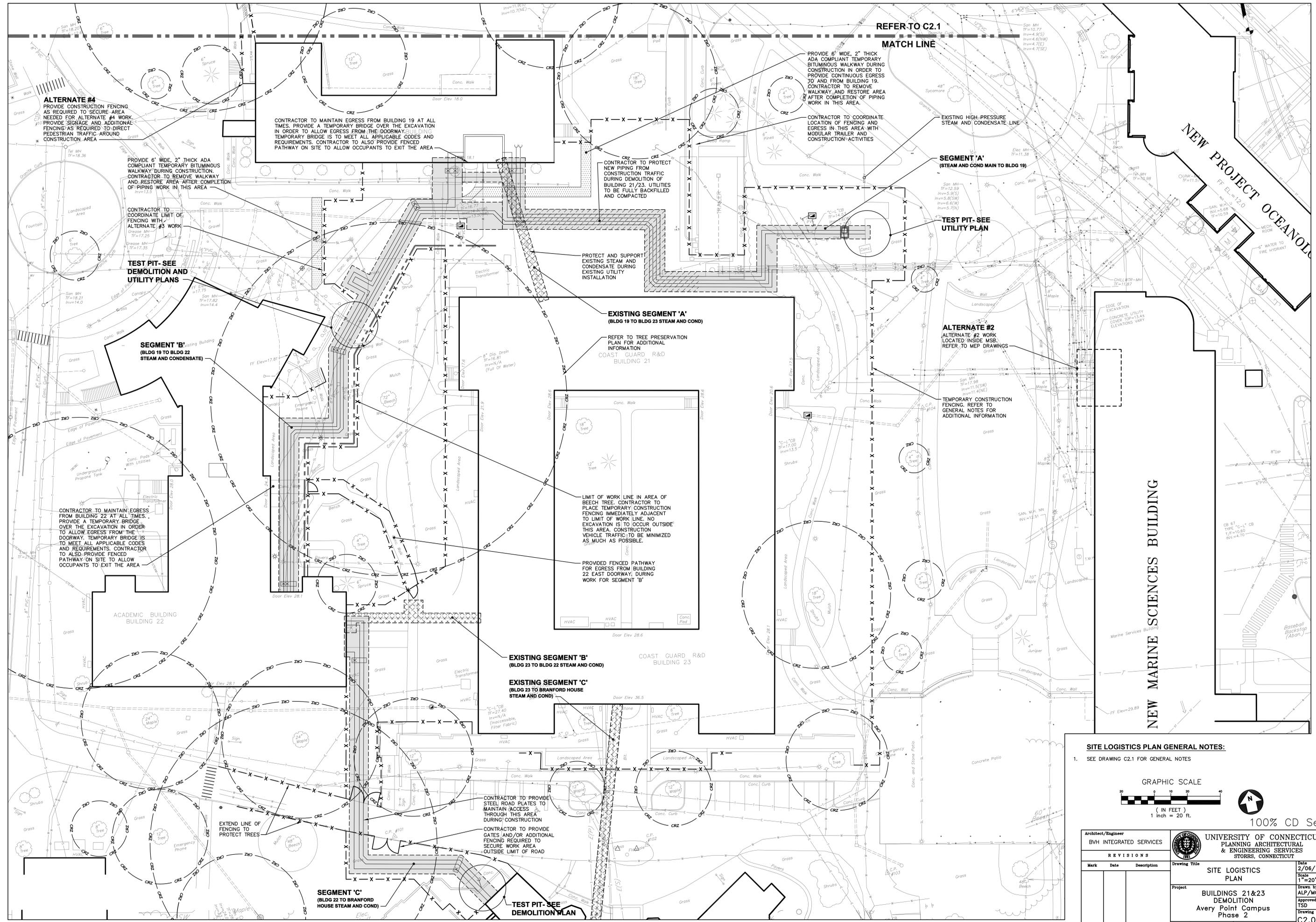
REF - auger refusal

BOP - Bottom of Probe, no refusal



Appendix F:
Site Logistics Plans

3/16/15 9:44:46 AM W:\2014\2114059 - Avery Point Bldg 21 And 23 Demolition\DWG\C2114059-logistics-ph2.dwg



REFER TO C2.1
MATCH LINE

PROVIDE 6" WIDE, 2" THICK ADA COMPLIANT TEMPORARY BITUMINOUS WALKWAY DURING CONSTRUCTION IN ORDER TO PROVIDE CONTINUOUS EGRESS TO AND FROM BUILDING 19. CONTRACTOR TO REMOVE WALKWAY AND RESTORE AREA AFTER COMPLETION OF PIPING WORK IN THIS AREA.

CONTRACTOR TO COORDINATE LOCATION OF FENCING AND EGRESS IN THIS AREA WITH MODULAR TRAILER AND CONSTRUCTION ACTIVITIES

SEGMENT 'A'
(STEAM AND COND MAIN TO BLDG 19)

TEST PIT-SEE
UTILITY PLAN

ALTERNATE #2
ALTERNATE #2 WORK
LOCATED INSIDE MSB.
REFER TO MEP DRAWINGS

TEMPORARY CONSTRUCTION
FENCING. REFER TO
GENERAL NOTES FOR
ADDITIONAL INFORMATION

EXISTING SEGMENT 'A'
(BLDG 19 TO BLDG 23 STEAM AND COND)

REFER TO TREE PRESERVATION
PLAN FOR ADDITIONAL
INFORMATION
COAST GUARD R&D
BUILDING 21

LIMIT OF WORK LINE IN AREA OF
BEECH TREE. CONTRACTOR TO
PLACE TEMPORARY CONSTRUCTION
FENCING IMMEDIATELY ADJACENT
TO LIMIT OF WORK LINE. NO
EXCAVATION IS TO OCCUR OUTSIDE
THIS AREA. CONSTRUCTION
VEHICLE TRAFFIC TO BE MINIMIZED
AS MUCH AS POSSIBLE.

PROVIDED FENCED PATHWAY
FOR EGRESS FROM BUILDING
22 EAST DOORWAY, DURING
WORK FOR SEGMENT 'B'

EXISTING SEGMENT 'B'
(BLDG 23 TO BLDG 22 STEAM AND COND)

EXISTING SEGMENT 'C'
(BLDG 23 TO BRANFORD HOUSE
STEAM AND COND)

CONTRACTOR TO PROVIDE
STEEL ROAD PLATES TO
MAINTAIN ACCESS TO
THROUGH THIS AREA
DURING CONSTRUCTION

CONTRACTOR TO PROVIDE
GATES AND/OR ADDITIONAL
FENCING REQUIRED TO
SECURE WORK AREA
OUTSIDE LIMIT OF ROAD

SEGMENT 'C'
(BLDG 22 TO BRANFORD
HOUSE STEAM AND COND)

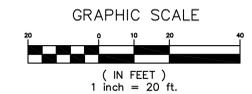
TEST PIT-SEE
DEMOLITION PLAN

NEW PROJECT OCEANOGRAPHY BUILDING

NEW MARINE SCIENCES BUILDING

SITE LOGISTICS PLAN GENERAL NOTES:

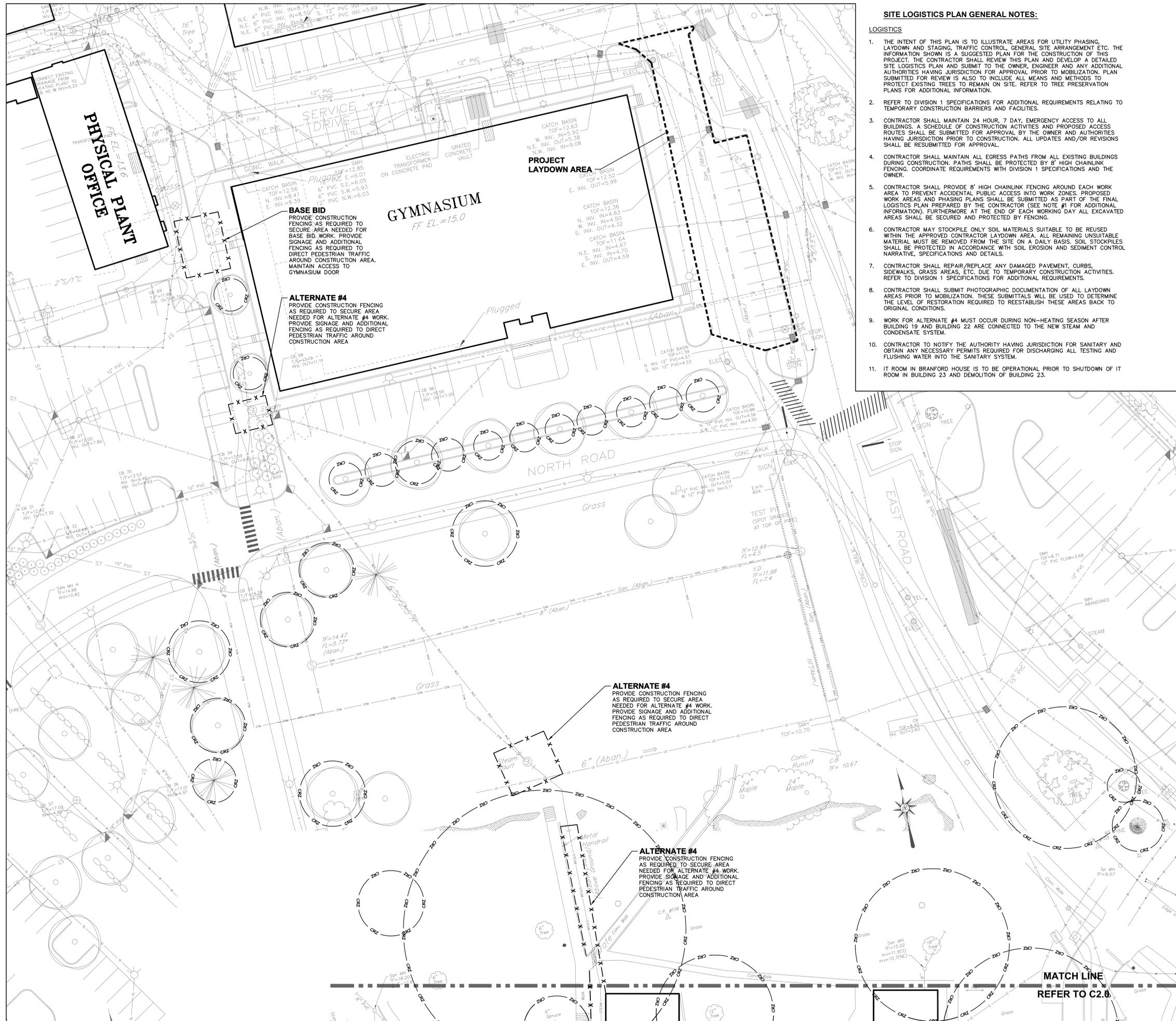
- SEE DRAWING C2.1 FOR GENERAL NOTES



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Architect/Engineer BVH INTEGRATED SERVICES		UNIVERSITY OF CONNECTICUT PLANNING ARCHITECTURAL & ENGINEERING SERVICES STORRS, CONNECTICUT	
REVISIONS			
Mark	Date	Description	Drawing Title
			SITE LOGISTICS PLAN
Project BUILDINGS 21&23 DEMOLITION Avery Point Campus Phase 2			Date 2/06/15 Scale 1"=20'
Project No. 901824			Drawn by ALP/MCC Approved by TSD Drawing No. C2.0
BVI Job No. 21-14-059			

3/16/15 9:45:19 AM W:\2014\2114059 - Avery Point Bldg 21 And 23 Demolition\DWG\C2114059-Logistics-ph2.dwg



SITE LOGISTICS PLAN GENERAL NOTES:

LOGISTICS

- THE INTENT OF THIS PLAN IS TO ILLUSTRATE AREAS FOR UTILITY PHASING, LAYDOWN AND STAGING, TRAFFIC CONTROL, GENERAL SITE ARRANGEMENT ETC. THE INFORMATION SHOWN IS A SUGGESTED PLAN FOR THE CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR SHALL REVIEW THIS PLAN AND DEVELOP A DETAILED SITE LOGISTICS PLAN AND SUBMIT TO THE OWNER, ENGINEER AND ANY ADDITIONAL AUTHORITIES HAVING JURISDICTION FOR APPROVAL PRIOR TO MOBILIZATION. PLAN SUBMITTED FOR REVIEW IS ALSO TO INCLUDE ALL MEANS AND METHODS TO PROTECT EXISTING TREES TO REMAIN ON SITE. REFER TO TREE PRESERVATION PLANS FOR ADDITIONAL INFORMATION.
- REFER TO DIVISION 1 SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS RELATING TO TEMPORARY CONSTRUCTION BARRIERS AND FACILITIES.
- CONTRACTOR SHALL MAINTAIN 24 HOUR, 7 DAY, EMERGENCY ACCESS TO ALL BUILDINGS. A SCHEDULE OF CONSTRUCTION ACTIVITIES AND PROPOSED ACCESS ROUTES SHALL BE SUBMITTED FOR APPROVAL BY THE OWNER AND AUTHORITIES HAVING JURISDICTION PRIOR TO CONSTRUCTION. ALL UPDATES AND/OR REVISIONS SHALL BE RESUBMITTED FOR APPROVAL.
- CONTRACTOR SHALL MAINTAIN ALL EGRESS PATHS FROM ALL EXISTING BUILDINGS DURING CONSTRUCTION. PATHS SHALL BE PROTECTED BY 8' HIGH CHAINLINK FENCING. COORDINATE REQUIREMENTS WITH DIVISION 1 SPECIFICATIONS AND THE OWNER.
- CONTRACTOR SHALL PROVIDE 8' HIGH CHAINLINK FENCING AROUND EACH WORK AREA TO PREVENT ACCIDENTAL PUBLIC ACCESS INTO WORK ZONES. PROPOSED WORK AREAS AND PHASING PLANS SHALL BE SUBMITTED AS PART OF THE FINAL LOGISTICS PLAN PREPARED BY THE CONTRACTOR (SEE NOTE #1 FOR ADDITIONAL INFORMATION). FURTHERMORE AT THE END OF EACH WORKING DAY ALL EXCAVATED AREAS SHALL BE SECURED AND PROTECTED BY FENCING.
- CONTRACTOR MAY STOCKPILE ONLY SOIL MATERIALS SUITABLE TO BE REUSED WITHIN THE APPROVED CONTRACTOR LAYDOWN AREA. ALL REMAINING UNSUITABLE MATERIAL MUST BE REMOVED FROM THE SITE ON A DAILY BASIS. SOIL STOCKPILES SHALL BE PROTECTED IN ACCORDANCE WITH SOIL EROSION AND SEDIMENT CONTROL NARRATIVE, SPECIFICATIONS AND DETAILS.
- CONTRACTOR SHALL REPAIR/REPLACE ANY DAMAGED PAVEMENT, CURBS, SIDEWALKS, GRASS AREAS, ETC. DUE TO TEMPORARY CONSTRUCTION ACTIVITIES. REFER TO DIVISION 1 SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- CONTRACTOR SHALL SUBMIT PHOTOGRAPHIC DOCUMENTATION OF ALL LAYDOWN AREAS PRIOR TO MOBILIZATION. THESE SUBMITTALS WILL BE USED TO DETERMINE THE LEVEL OF RESTORATION REQUIRED TO REESTABLISH THESE AREAS BACK TO ORIGINAL CONDITIONS.
- WORK FOR ALTERNATE #4 MUST OCCUR DURING NON-HEATING SEASON AFTER BUILDING 19 AND BUILDING 22 ARE CONNECTED TO THE NEW STEAM AND CONDENSATE SYSTEM.
- CONTRACTOR TO NOTIFY THE AUTHORITY HAVING JURISDICTION FOR SANITARY AND OBTAIN ANY NECESSARY PERMITS REQUIRED FOR DISCHARGING ALL TESTING AND FLUSHING WATER INTO THE SANITARY SYSTEM.
- IT ROOM IN BRANFORD HOUSE IS TO BE OPERATIONAL PRIOR TO SHUTDOWN OF IT ROOM IN BUILDING 23 AND DEMOLITION OF BUILDING 23.

UTILITY PHASING

GENERAL:

- DELIVERIES OF PIPING TO THE SITE WILL NEED TO BE PHASED DUE TO LIMITED LAYDOWN AREA AVAILABLE.
- EXISTING SEGMENT 'A' AND EXISTING SEGMENT 'B' CAN NOT BE REMOVED UNTIL SEGMENT A AND SEGMENT B ARE TESTED, BACKFILLED AND OPERATIONAL TO SERVICE BUILDINGS 19 AND 22.
- ONCE BUILDINGS 19 AND 22 ARE BROUGHT ON LINE WITH THE NEW STEAM AND CONDENSATE SYSTEM, EXISTING SEGMENTS 'A', 'B' AND 'C' CAN BE SHUTDOWN IN ORDER TO BEGIN DEMOLITION OF BUILDING 23. A STEAM SHUTDOWN FOR BRANFORD HOUSE (EXISTING SEGMENT 'C') CAN LAST FOR THE DURATION OF THE NON-HEATING SEASON.

THE FOLLOWING IS A SUGGESTED ROUTE OF UTILITY PHASING. THE CONTRACTOR IS TO DEVELOP A SCHEDULE INDICATING PHASING OF WORK AND MILESTONE DATES FOR REVIEW BY THE UNIVERSITY AND ENGINEER PRIOR TO MOBILIZATION.

SEGMENT A:

- THE PREFERRED ROUTE OF UTILITY INSTALLATION FOR SEGMENT 'A' IS FROM THE VALVES INSIDE THE BUILDING 19 MECHANICAL ROOM TO THE CONNECTION POINT AT THE EXISTING HIGH PRESSURE STEAM AND CONDENSATE MAIN.
- CONTRACTOR IS TO COORDINATE ALL WORK AT THE CONNECTION POINT TO THE EXISTING HIGH PRESSURE STEAM AND CONDENSATE MAIN WITH UNIVERSITY FACILITY STAFF. SHUTDOWN REQUIRED TO MAKE CONNECTIONS TO EXISTING SYSTEM IS LIMITED TO A MAXIMUM OF 3 DAYS. THE SHUTDOWN IS DEPENDENT ON CURRENT CLIMATE CONDITIONS AS TO MINIMIZE DISTURBANCE TO MARINE SCIENCE BUILDING OPERATIONS.
- ALTERNATE CONNECTION TO EXISTING HIGH PRESSURE STEAM AND CONDENSATE WILL REQUIRE AN INSTALLATION OF A SECTION OF PIPE AND PROVISION OF TEMPORARY CAPS TO ALLOW EXISTING SYSTEM TO BE REACTIVATED. ALL SHUTDOWN REQUIREMENTS NOTED IN ITEM #2 ABOVE WILL APPLY. THIS ALTERNATE WILL ALSO REQUIRE A SECOND SHUTDOWN TO MAKE THE FINAL CONNECTION TO THE NEW SEGMENT 'A' PIPING.
- SELECTION OF MEANS OF CONNECTION TO BE DETERMINED BASED ON TIME OF CONTRACT AWARD AND ANTICIPATED CLIMATE FORECAST.

SEGMENT B:

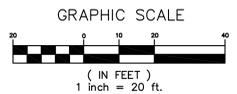
- THE PREFERRED ROUTE OF UTILITY INSTALLATION FOR SEGMENT 'B' IS FROM THE VALVES AT THE BUILDING 19 MECHANICAL ROOM TO THE TIE IN TO THE EXISTING BUILDING 22 STEAM SYSTEM.
- THE SHUTDOWN AT BUILDING 22 MUST BE LIMITED TO 3 DAYS MAXIMUM AND MUST OCCUR ON THE WEEKEND.

SEGMENT C:

- UNDERGROUND UTILITY WORK FOR SEGMENT 'C' IS TO START AT THE BRANFORD HOUSE AND THEN MOVE NORTH TOWARDS BUILDING 22. EVENTS ARE SCHEDULED EVERY WEEKEND AT THE BRANFORD HOUSE. THE CONTRACTOR IS RESPONSIBLE TO CLEAN THE SITE ON A ROUTINE BASIS IN THIS AREA AND ALSO AT THE DISCRETION OF THE UNIVERSITY PRIOR TO EVENTS.
- THE CONTRACTOR IS TO COMPLETE THE UNDERGROUND UTILITY WORK ADJACENT TO BRANFORD HOUSE AND STABILIZE THE SITE DURING THE INITIAL PHASE OF CONSTRUCTION.
- CHILLED WATER LINE INSTALLATION WORK IN THE AREA OF BUILDING 22 IS TO STOP SHORT OF THE BUILDING ENTRY POINT. THE LAST SECTION OF CHILLED WATER PIPING CAN NOT BE INSTALLED UNTIL NEW STEAM SYSTEM IS FULLY ENERGIZED AND EXISTING STEAM AND CONDENSATE PIPING FROM BUILDING 22 TO BUILDING 23 IS REMOVED.
- MULTIPLE FIELD TESTS OF THE PIPING WILL BE REQUIRED IN ORDER TO COMPLETE PHASED INSTALLATION IN THIS SEGMENT.

BUILDINGS:

- ANY SHUTDOWN OF BUILDING 19 STEAM WILL SHUTDOWN STEAM SERVICE TO BUILDINGS 21/23 (COAST GUARD R&D), BUILDING 22, THE LIBRARY AND BRANFORD HOUSE.
- BUILDING 19 WILL REQUIRE 2 SHUTDOWNS TO PERFORM WORK. THE FIRST SHUTDOWN IS TO INSTALL NEW VALVES. SEE DRAWING HD1.0 AND HD1.0 FOR ADDITIONAL INFORMATION. THE SECOND SHUTDOWN WILL BE REQUIRED TO TIE THE NEW SITE STEAM SYSTEM INTO THE NEW PRV STATION AND EXISTING BUILDING 19 STEAM SYSTEM TO REMAIN.
- BUILDING 19 SHUTDOWNS MUST BE A MAXIMUM OF 3 DAYS EACH AND OCCUR ON THE WEEKEND.
- BUILDING 22 SHUTDOWNS MUST BE A MAXIMUM OF 3 DAYS AND OCCUR ON THE WEEKEND. BUILDING 22 WILL REQUIRE ONE SHUTDOWN TO PERFORM THE TIE IN TO THE EXISTING BUILDING 22 STEAM SYSTEM. A SECOND SHUTDOWN WILL BE REQUIRED WHEN WORK IS BEING PERFORMED IN BUILDING 19. THE SHUTDOWN TO TIE THE NEW STEAM SYSTEM INTO THE EXISTING BUILDING 22 STEAM SYSTEM SHALL OCCUR AT THE SAME TIME AS THE BUILDING 19 SHUTDOWN AND REQUIRE MULTIPLE CREWS.



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BVI Job No. 21-14-059			



ATTACHMENT E



BVH
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services

**ATTACHMENT E:
STORMWATER POLLUTION CONTROL PLAN
March 20, 2015**

**Prepared For:
University of Connecticut Avery Point Campus
1084 Shennecossett Road
Groton, Connecticut 06340**

**Registrant:
Jason Coite, PE**

BVH INTEGRATED SERVICES, P.C.

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ph. (617) 658-9008

www.bvhis.com

Table of Contents

- 1. Introduction**
- 2. Site Plan and Site Description**
 - 2.1. Site Plan
 - 2.2. Site Description
- 3. Construction Sequencing**
 - 3.1. Phasing/Logistics Plan
- 4. Control Measures**
 - 4.1. Erosion And Sediment Control Plan
 - 4.2. Maintenance
 - 4.3. Dewatering
- 5. Runoff Reduction and Low Impact Development Information**
- 6. Inspections**
 - 6.1. Plan Implementation
 - 6.2. Routine Inspections
 - 6.3. Corrective Actions
- 7. Turbidity Monitoring**
 - 7.1. Monitoring Requirements
 - 7.2. Monitoring Frequency
 - 7.3. Sampling
 - 7.4. Monitoring Reports
- 8. Other Controls**
 - 8.1. Waste Disposal
 - 8.2. Washout Areas
 - 8.3. Sediment Tracking and Dust Control
 - 8.4. Chemical and Petroleum Storage
- 9. Records Keeping**
- 10. Termination Requirements**
- 11. Permittee and Contractor Certification Statements**



APPENDICES

Appendix A	General Permit for Discharge of Stormwater and Dewatering Wastewaters from Construction Activities
Appendix B	Registration Form Part IV Site Information Maps
Appendix C	Site Drainage Maps and Grading and Drainage Plans
Appendix D	Soil Erosion and Sediment Control Plans and Details
Appendix E	Soil/Rock Probes
Appendix F	Site Logistics Plan
Appendix G	Specifications
	310000 - Site Clearing
	312000 - Earth Moving
	312005 - Sedimentation and Erosion Control



1. Introduction

This Stormwater Pollution Control Plan (SWPCP) is being provided as required by Section 5(b) of the 2013 General Permit for the Discharge of Stormwater and Dewatering from Construction Activities.

The project involves the demolition of the existing Building 21/Building 23 "Coast Guard R&D" building and the rerouting of utilities servicing the Coast Guard R&D building and other adjacent buildings. Lawn area will be planted within most of the former footprint of the building and some minor walkways will be added to connect to existing walkways. Also, an existing paved parking area will be reworked. The project site is located at 1084 Shennecossett Road, Groton, Connecticut on the University of Connecticut Avery Point Campus. The project site is generally located within the center of the UConn Avery Point Campus. The total site disturbance for this project is approximately 2.8 acres. For the purposes of this permit the term "project site" will refer to the 2.8 acres of disturbed area, not the whole UConn Avery Point Campus.

The project is expected to begin in May of 2015 and be completed in June of 2016. It is anticipated that construction activities will take place between 7:00am and 3:30pm Monday through Friday. Due to utility phasing required, there may be work required on the weekends.

A portion of the project area is inside the 100 year flood plain; refer to FEMA FIRM included in Appendix B.

There will not be any Mining Operations on this project.

There will be no sanitary flow for this project as the existing sanitary connection for the building to be demolished are being removed and there will not be any combined storm-sanitary flows from this project.

This project is not located on federally recognized Indian lands.

This project site is inside the Coastal Boundary. However, the project is exempt from the Coastal Site plan review. See Appendix D and the verification of exemption for the project.

Based on our review of the latest available maps (NDDDB December 2014) the project site is inside areas designated as State and Federal Listed Species & Significant Natural Communities. However, the project has received a limited one year determination from the Department of Energy & Environmental Protection that there will not be a negative impact from the project work. Refer to Attachment C.

Stormwater from this project does not discharge to a Wild and Scenic River.

Based on review of the CT DEEP Aquifer Protection Area Maps website, the project site is not located within a mapped Aquifer Protection Area in the Town of Groton.

Stormwater is not discharged to a Publicly Owned Treatment Works.

Stormwater discharges from this project will not discharge entirely to Groundwater.



There are Certification Requirements for Registrants and Other Individuals.

Plan Review and Certification by a District is not required for this Locally Exempt Project.

Based on our review of the latest available data there will not be any discharges to Impaired Waters.

A historical pre-screening was conducted per the instructions in the general permit. Under Step 1 we found that the Branford House is on the Connecticut Register of Historic Places. We received a letter from the State Historic Preservation Office (SHPO) that our project will have no adverse impacts to the site. This letter can be found in Appendix B. We are unaware of any additional historical presence list with the local municipality.

The pre-screening criteria in Step 2 answered "no" to criterion 1 regarding proximity to surface water. Because of this answer, the permit directed to skip criterion 2. Criterion 3 references buildings or structures over 150 years in age. There are no known buildings that meet this criterion therefore the answer is no. Criterion 4 was reviewed and determined that this site was unoccupied on the 1850's mapping.

Based on criterion 1 through 4 it is our opinion that the site does not have the potential for historic/archaeological resources.

Maps documenting answers to questions in Part IV of the general permit are included in Appendix B.

Relevant Information:

Owner:	University of Connecticut
Developer:	N/A
Architect:	N/A
Engineer:	BVH Integrated Services, P.C.
Contractor(s):	To Be Determined
Applicant:	Jason Coite, PE (Uconn)
Permittee:	University of Connecticut



2. Site Description and Drainage Patterns

Introduction

The proposed project involves the demolition of the existing Coast Guard R&D building and the rerouting of utilities servicing the Coast Guard R&D building and other adjacent buildings. Lawn area will be planted after the building demolition and some minor walkways will be added to connect to existing walkways.

Pre-Development Conditions

The existing site consists of several buildings as well as existing walkways and some trees.

The site impervious is mainly the roof areas of the buildings within the project site along with some interconnecting sidewalks and a paved parking area. The remaining areas are lawn areas with some trees. The site generally pitches north to northeast and northwest. Much of the area sheet flows through the lawn areas into catch basins dispersed around the limits of the site. The roof drainage is piped to aforementioned catch basins.

Pre Development flows from the project site eventually leave through piped systems that connect into the main campus drainage system.

Post-Development Conditions

The project will include the removal of the existing Coast Guard R&D Building and its building connectors and the relocation of existing utilities. The project will install several minor walkways as well as restore some walkways that will be disturbed by construction in addition to reworking a paved parking area just north of the former Coast Guard R&D footprint. The building footprint will be planted as lawn area.

Post Development flows from the project site eventually leave through piped systems that connect into the main campus drainage system.

The proposed development will decrease the impervious area on the site. It will also cause a decrease in the volume of stormwater runoff. See the table below for the reduction in volume at the completion of the project.

Storm water Volume Comparison		
Storm Event	Pre-development Volume	Post-Development Volume
2-yr 24 hour storm	14236 cubic feet	7724 cubic feet
10-yr 24 hour storm	26792 cubic feet	17874 cubic feet
100-yr 24 hour storm	44715 cubic feet	33966 cubic feet



3. Construction Sequencing

3.1. Phasing/Logistics

A Site Logistics Plan has been created by the Engineer with input from the owner to identify critical work on the site. A copy of that plan is included in Appendix F. The selected contractor will further develop and implement a phasing plan prior to construction. The phasing plan will be added to the Stormwater Pollution Control Plan. The contractor will also need to coordinate the sedimentation and erosion control measures with the plan and specifications.

Prior to any excavation on the site, temporary erosion and sedimentation controls will be installed. The contractor will be responsible for installing and maintaining all erosion control measures as well as modifications needed during all phases of the project.

4. Control Measures

4.1. Erosion and Sediment Control Plan

The sediment and erosion control for this project will address all disturbed areas. A variety of measures will be used throughout construction for soil erosion and sediment control. Multiple details are included with the plan for measures such as silt fence, stock pile stabilization and inlet protection. All measures taken and implemented shall comply with specifications and standards of the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control, as amended.

The installation of erosion control and stabilization shall be installed and coordinated by the contractor throughout the project.

For additional information refer to the soil erosion and sediment control plans and details included in Appendix D.

4.2. Maintenance

All erosion and sediment controls will be maintained throughout the project. All components of the sediment and erosion controls will be inspected, repaired, and enhanced routinely throughout the course of this project. All damaged slopes or protective measures shall be repaired and restored as soon as possible.

All protective measures shall be inspected and maintained prior to each forecast storm event in addition to the routine inspections.

The contractor shall have additional materials on site throughout the project to repair or replace all components of the sedimentation and erosion control system at any time.

Maintenance shall include the replacement of sediment collection areas, removal of collected sediment, and restoration of all measures protecting adjacent areas from runoff during the project.

A copy of a sample erosion and sediment controls checklist is included on the drawings in Appendix D.

4.3. Dewatering

Prior to initiating any dewatering, a plan must be proposed by the contractor for review and approval by the owner's representative. All dewatering activities shall be in accordance with the approved "General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities", and specification sections 312000-Earth Moving and 312005-Sedimentation and Erosion Control. The contractor shall reroute surface water runoff away from excavated areas and not allow water to accumulate in excavations. The Contractor shall grade and ditch the site as necessary to direct surface runoff away from open excavations and will not use excavated trenches as temporary drainage ditches. The contractor will also install dewatering



as required to keep subgrades dry and convey groundwater away from excavations until dewatering is no longer required. Selected specification sections are included in Appendix G.



5. Runoff Reduction and Low Impact Development Information

Runoff Reduction

This project is reducing the amount of impervious coverage on the site which will result in a reduction in run-off volume at the end of the project. See the table provided in Section 2 for the volume comparison between pre- and post-development. We believe the large reduction in run-off volume that will occur from the building demolition project and the restoration of the building footprint to lawn will meet the intent of the general permit for runoff reduction measures.

Stormwater Treatment

The proposed project mainly deals with the demolition of the existing Coast Guard R&D building and relocation of utilities. There is some minimal storm drainage work involving the replacement of several existing drainage structures on site with new structures. Stormwater treatment will be provided by the use of disconnected impervious areas.

Inspections

5.1. Plan Implementation

The erosion and sediment control components will require inspection throughout the project by a Qualified Inspector as defined by the General Permit. The requirements of the Qualified Inspector are also defined in the General Permit.

The implementation portion of the General Permit requires up to 3 inspections within the first 90 days of the project. The Qualified Inspector will be required to report on the conditions, whether they are compliant or deficient. If the project conditions are acceptable after the first, second, or third inspection the project can move forward. If the conditions are still deficient after the third inspection the Qualified Inspector is required to report the findings to the CT DEEP who will then intervene.

5.2. Routine Inspections

The permittee is required to perform routine inspections for compliance as required in the General Permit. The routine inspections shall continue until a Notice of Termination has been submitted.

The permittee shall maintain a rain gauge on-site to monitor and document rainfall amounts.

A qualified inspector (provided by the permittee) shall routinely inspect all disturbed areas that have not been stabilized, all sedimentation and erosion control measures, stockpile areas, washout areas, site entrances/exits, etc. Inspections shall occur at least once a week and within 24 hours of an event that generates a discharge.

For storm events that occur on a weekend or holiday inspections are required within 24 hours only for storms that equal or exceed 0.5 inches. If storms are less than 0.5 inches the inspection can occur immediately at the start of the next business day.

5.3. Corrective Actions

Non-engineered corrective actions shall be implemented on site within 24 hours and incorporated into a revised plan within 3 calendar days of the date of inspection. Engineered corrective actions shall be implemented on site within 7 days and incorporated into a revised plan within 10 days of the date of inspection. During the period in which any corrective actions are being developed and have not yet been fully implemented, interim measures shall be implemented to minimize the potential for the discharge of pollutants from the site.

For more specific requirements refer to Section 5 (b) (4) of the general permit.

6. Turbidity Monitoring

6.1. Monitoring Requirements

This project requires Registration and therefore the General Permit requires sampling, monitoring, and reporting. Sampling and analysis are prescribed in 40 CFR Part 136.

6.2. Monitoring Frequency

Sampling is required at least once every month. When final stabilization of an outfall is achieved turbidity monitoring is no longer required.

6.3. Sampling

All samples shall be collected from discharges resulting from a storm event that occurs at least 24 hours after any previous storm event generating a stormwater discharge. Any sample containing snow or ice melt must be identified as such and, in the absence of a storm event, is not a valid sample. Samples shall be grab samples taken at least three separate times during a storm event and shall be representative of the flow and characteristics of the discharge. Samples may be taken manually or by an in-situ turbidity probe or other automatic sampling device equipped to take individual turbidity readings. The first sample shall be taken within the first hour of stormwater discharge, or at the start of normal working hours if samples are manually collected and the discharge began outside of normal working hours.

6.4. Monitoring Reports

Within 30 days following the end of each month, permittees shall enter the stormwater sampling results on the Stormwater Monitoring Report (SMR) form, which is available on the CT DEEP website. If there was no discharge during the monitoring period, the permittee shall submit the form with the words "no discharge" entered in place of the monitoring results. If the permittee monitors a discharge more frequently than required by the general permit, the results shall be included in additional SMRs for that month.

Prior to one-hundred and eighty (180) days after the issuance of this permit, the Permittee may either submit monitoring data and other reports to the Department in hard copy form or electronically using NetDMR, after one-hundred and eighty (180) days after the issuance of this permit the Permittee shall begin reporting electronically using NetDMR.

For more specific requirements refer to Section 5 (c) of the general permit.

7. Other Controls

7.1. Waste Disposal

The Contractor will be responsible for the proper handling and disposal of construction waste and debris. All waste material shall be disposed of offsite according to all applicable federal, state and local laws and regulations.

7.2. Washout Areas

If on site washout of containers, vehicles, equipment, applicators etc. will take place, the Contractor shall set up designated washout areas outside any buffers and at least 50 feet from any stream or other sensitive resource. Washout areas shall be flagged and all water used for washing shall be directed into a designated container or pit. Dumping of waste wash water into storm sewers is not permitted. Waste water for washing shall be disposed of per all applicable federal, state and local laws and regulations.

7.3. Sediment Tracking and Dust Control

Stone construction entrances and haul roads shall be installed and maintained where vehicles enter or leave the site. Inlet protection shall be installed as shown on the Soil Erosion and Sediment Control plans in Appendix D.

Dust suppression shall be provided in accordance with the erosion control specifications, and 22a-174-18b of the Connecticut General Statutes for any construction activity that causes airborne particulates.

7.4. Chemical and Petroleum Storage

All chemical and petroleum product containers stored on the site (excluding those contained within vehicles and equipment) shall be provided with impermeable containment which will hold at least 110% of the volume of the largest container, or 10% of the total volume of all containers in the area, whichever is larger, without overflow from the containment area. All chemicals and their containers shall be stored under a roofed area except for those chemicals stored in containers of 100 gallon capacity or more, in which case a roof is not required. Double-walled tanks satisfy this requirement.



8. Records Keeping

The permittee shall retain copies of the plan and all reports required by the general permit, and all records used to complete the registration for this general permit, for a period of 5 years from the date that construction is complete. Inspection records must be retained for 5 years after the date of inspection. A copy of this plan shall be retained at the site until construction is complete.