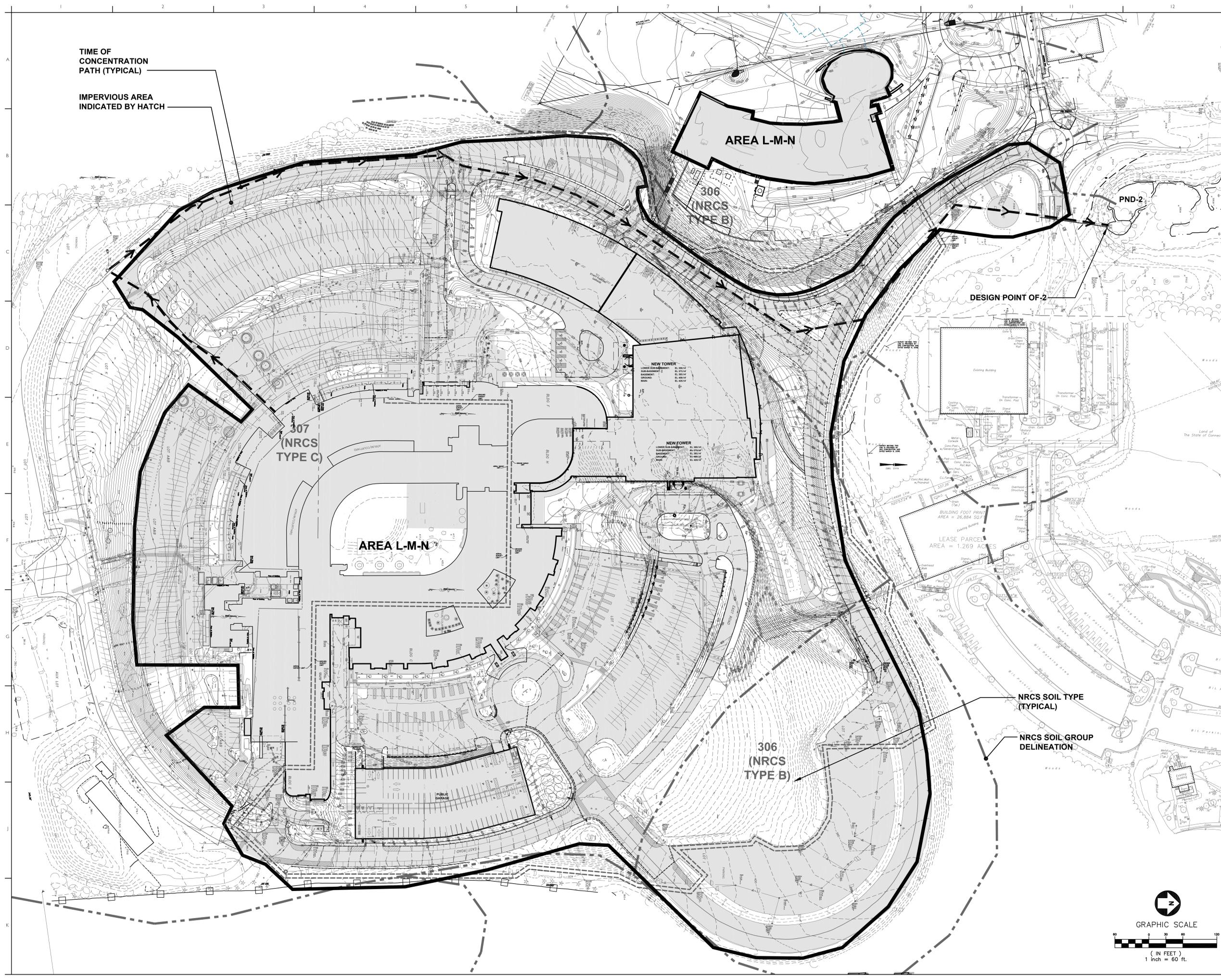




**Appendix C:**

**Site Drainage Maps and Grading and Drainage Plans**

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 PRE-DEVELOPMENT  
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 ANALYSIS PLAN

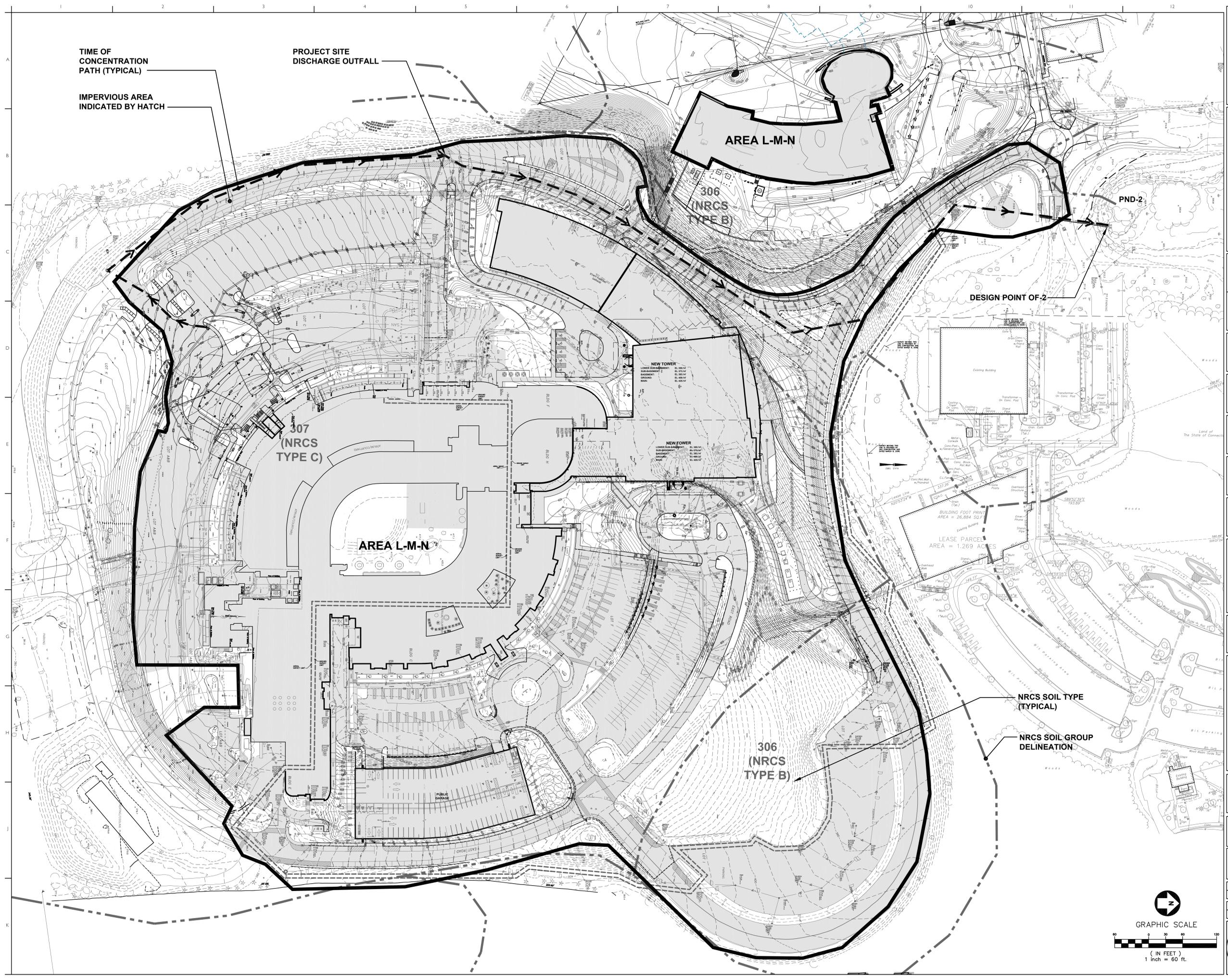
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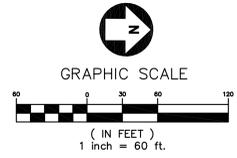
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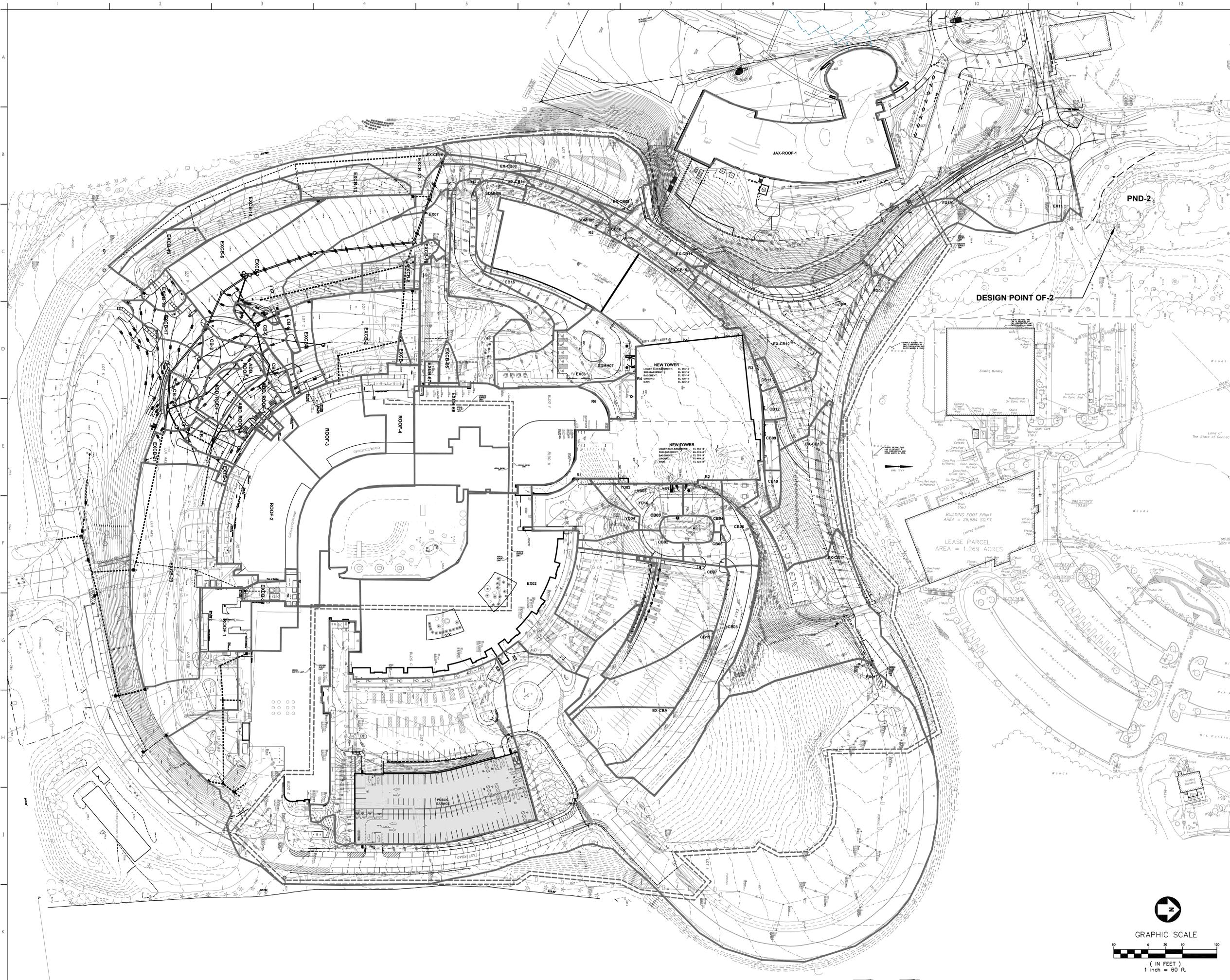
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# UCONN Health Academic Building Renovation & Addition

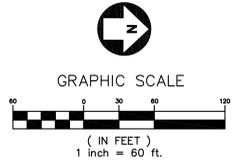
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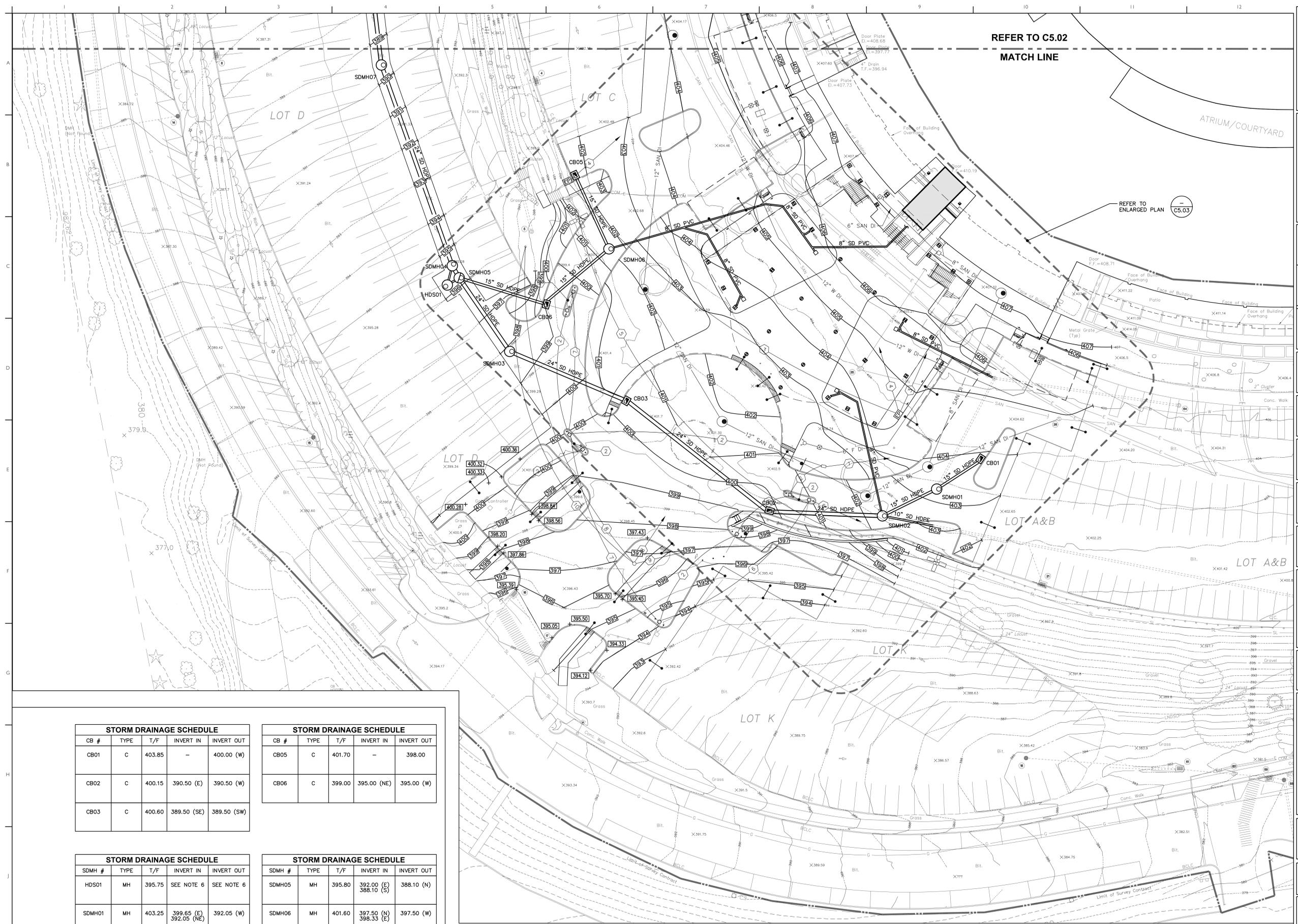
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REFER TO C5.02  
MATCH LINE

REFER TO ENLARGED PLAN  
C5.03

ATRIUM/COURTYARD

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C5.01

C5.01

C5.01

C5.01

STORM DRAINAGE SCHEDULE					
CB #	TYPE	T/F	INVERT IN	INVERT OUT	
CB01	C	403.85	-	400.00 (W)	
CB02	C	400.15	390.50 (E)	390.50 (W)	
CB03	C	400.60	389.50 (SE)	389.50 (SW)	

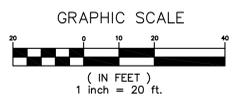
STORM DRAINAGE SCHEDULE					
CB #	TYPE	T/F	INVERT IN	INVERT OUT	
CB05	C	401.70	-	398.00	
CB06	C	399.00	395.00 (NE)	395.00 (W)	

STORM DRAINAGE SCHEDULE					
SDMH #	TYPE	T/F	INVERT IN	INVERT OUT	
HDS01	MH	395.75	SEE NOTE 6	SEE NOTE 6	
SDMH01	MH	403.25	399.65 (E) 391.20 (NE) 391.45 (E)	392.05 (W)	
SDMH02	MH	402.30	398.50 (NW) 391.20 (NE) 391.45 (E)	391.20 (W)	
SDMH03	MH	398.15	388.68 (SE)	388.68 (NW)	
SDMH04	MH	395.40	387.75 (SE)	387.75 (N)	

STORM DRAINAGE SCHEDULE					
SDMH #	TYPE	T/F	INVERT IN	INVERT OUT	
SDMH05	MH	395.80	392.00 (E) 388.10 (S)	388.10 (N)	
SDMH06	MH	401.60	397.50 (N) 398.33 (E)	397.50 (W)	
SDMH07	MH	389.65	378.93 (S)	378.93 (N)	
SDMH08	MH	381.10	375.15 (S) 375.64 (E)*	375.15 (W)	
SDMH09	MH	377.77	373.70 (E) EXISTING (S)	373.70 (W)	

**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.
- UTILITIES ARE SHOWN FOR REFERENCE ONLY.
- FINAL TOP OF FRAME ELEVATIONS FOR NEW DRAINAGE STRUCTURES MAY NEED TO BE FIELD ADJUSTED TO COORDINATE WITH SITE CONDITIONS AND FINAL GRADING (TYPICAL).
- INVERTS AND PIPE SIZES FROM BY-PASS MANHOLE, INTO HYDRODYNAMIC SEPARATOR AND OUT OF HYDRODYNAMIC SEPARATOR WILL VARY BASED ON HYDRODYNAMIC SEPARATOR MANUFACTURER. CONTRACTOR SHALL OBTAIN INVERTS AND PIPE SIZES FROM THE MANUFACTURER AND SUBMIT THEM TO THE ENGINEER AS PART OF THE PRODUCT SUBMITTAL FOR APPROVAL. REFER TO DETAIL SHEETS FOR DESIGN INFORMATION REQUIRED BY THE MANUFACTURER TO SET INVERTS AND PIPE SIZES.



C5.01

STAFF PARKING GARAGE

LOT M

BLDG F

BLDG H

INFORMATION PROVIDED IN THIS AREA BASED ON DESIGN DOCUMENTS FOR NEW HOSPITAL TOWER PROJECT. CONTRACTOR SHALL FIELD VERIFY CONDITIONS PRIOR TO CONSTRUCTION

CONNECT NEW STORM PIPE TO EXISTING CATCH BASIN AT INVERT 372.10'

CONNECT EXISTING STORM PIPE TO NEW STORM MANHOLE. VERIFY EXACT INVERT ELEVATION IN THE FIELD AND NOTIFY THE ENGINEER

CONNECT EXISTING STORM PIPE TO NEW STORM MANHOLE AT INVERT 375.64' (VF)

1. PRECAST CONCRETE MANHOLE

MATCH LINE  
REFER TO C5.01

**GRADING AND DRAINAGE GENERAL NOTES:**

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- UTILITIES ARE SHOWN FOR REFERENCE ONLY.
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- INVERTS AND PIPE SIZES FROM BY-PASS MANHOLE, INTO HYDRODYNAMIC SEPARATOR AND OUT OF HYDRODYNAMIC SEPARATOR WILL VARY BASED ON HYDRODYNAMIC SEPARATOR MANUFACTURER. CONTRACTOR SHALL OBTAIN INVERTS AND PIPE SIZES FROM THE MANUFACTURER AND SUBMIT THEM TO THE ENGINEER AS PART OF THE PRODUCT SUBMITTAL FOR APPROVAL. REFER TO DETAIL SHEETS FOR DESIGN INFORMATION REQUIRED BY THE MANUFACTURER TO SET INVERTS AND PIPE SIZES.

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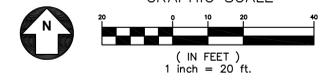
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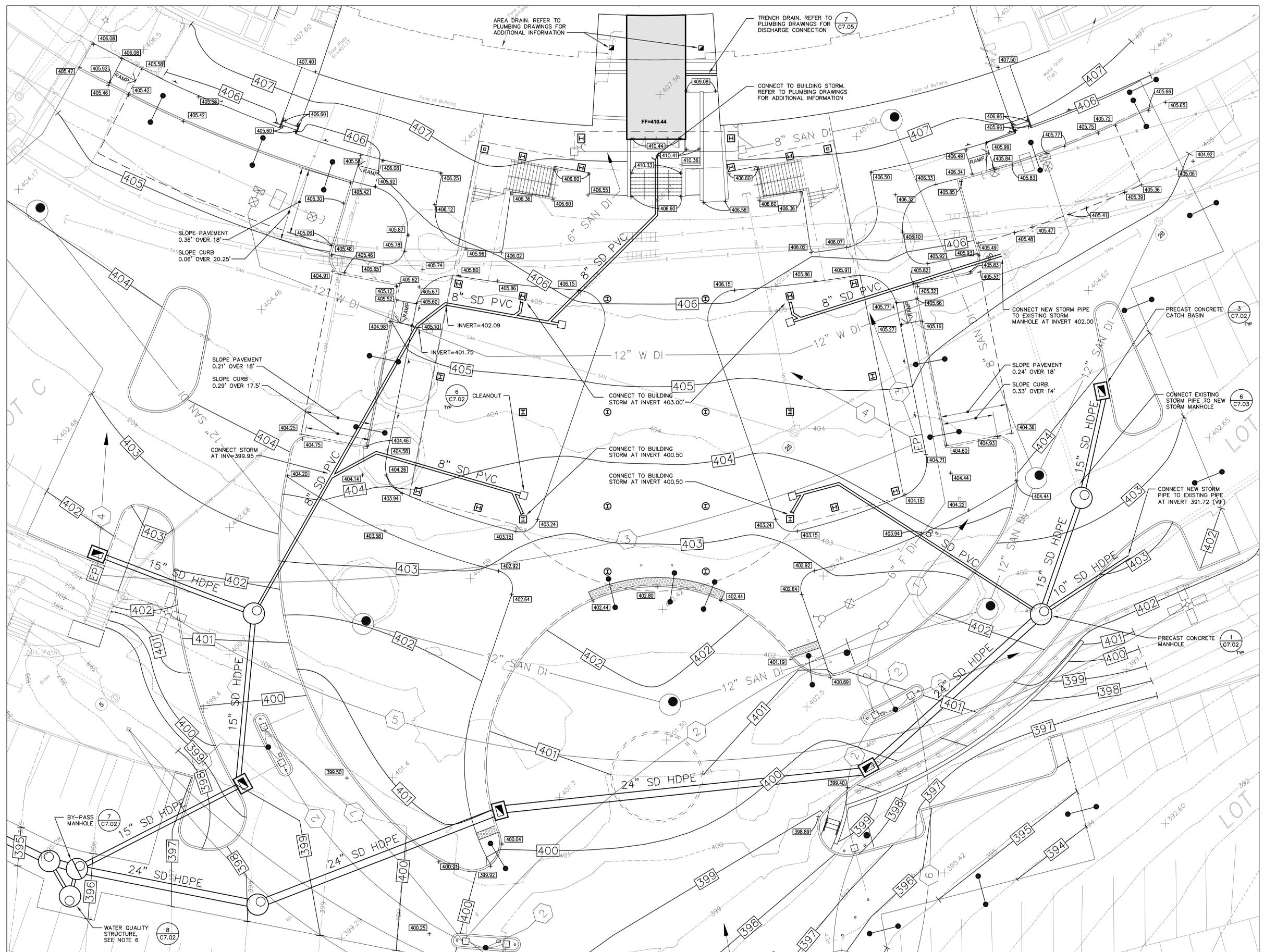
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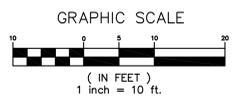
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**1 SITE GRADING AND DRAINAGE ENLARGED PLAN**  
C5.03 1"=10'



ENLARGED PLAN GENERAL NOTE:  
1. REFER TO SITE GRADING AND DRAINAGE PLAN FOR ADDITIONAL INFORMATION.



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**Appendix D:**

**Soil Erosion and Sediment Control Plans, Narrative and Details**

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PROVIDE TREE PROTECTION. REFER TO DEMOLITION PLANS FOR ADDITIONAL INFORMATION.

INLET PROTECTION (TYPICAL) 6 C7.01 TYP

CONTRACTOR TO PROVIDE TEMPORARY BITUMINOUS PAVEMENT IN ALL ROADWAY AREAS. GATE (TYPICAL)

CONTRACTOR TO PROVIDE CONSTRUCTION ENTRANCE AS NEEDED. REFER TO 3/C7.01 FOR CONSTRUCTION ENTRANCE DETAIL.

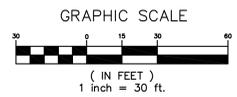
APPROXIMATE CONSTRUCTION FENCE LOCATION (TYPICAL). FILTER SOCK AGAINST INSIDE PERIMETER OF CONSTRUCTION FENCE WHERE PAVEMENT EXISTS (TYPICAL) 7 C7.01 TYP

PROVIDE TREE PROTECTION. REFER TO DEMOLITION PLANS FOR ADDITIONAL INFORMATION.

SILT FENCE (TYPICAL) 5 C7.01 TYP

**SOIL EROSION AND SEDIMENTATION CONTROL GENERAL NOTES:**

- ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO START OF DEMOLITION AND CONSTRUCTION.
- REFER TO C7.00 AND TO THE STORMWATER POLLUTION CONTROL PLAN FOR SOIL EROSION AND SEDIMENTATION CONTROL NARRATIVES.
- INSTALL AND MAINTAIN INLET PROTECTION ON ALL EXISTING STRUCTURES; EXISTING STRUCTURES INDICATED TO BE REMOVED SHALL BE PROTECTED UNTIL ACTUAL DEMOLITION IS TO OCCUR.
- INSTALL PERIMETER CONTROLS PRIOR TO DEMOLITION. CONTRACTOR SHALL REMOVE, REPLACE AND OR RELOCATE AS NECESSARY TO COORDINATE WITH SEQUENCE OF CONSTRUCTION.
- CONTRACTOR SHALL MAINTAIN SILT FENCE DURING THE DURATION OF THE PROJECT. ADDITIONAL SILT FENCING SHALL BE PROVIDED DURING UTILITY TRENCH EXCAVATIONS AND INSTALLED AS DIRECTED BY THE ENGINEER AND/OR UNIVERSITY REPRESENTATIVE. THE CONTRACTOR SHALL CARRY AN ADDITIONAL 1,000 FEET OF SILT FENCE INCLUDING INSTALLATION AND MAINTENANCE.
- PRIOR TO INITIATING ANY DEWATERING, A PLAN MUST BE PROPOSED BY THE CONTRACTOR FOR REVIEW AND APPROVAL BY THE OWNERS REPRESENTATIVE. ALL DEWATERING ACTIVITIES SHALL BE IN ACCORDANCE WITH THE APPROVED "GENERAL PERMIT FOR THE DISCHARGE OF STORMWATER AND DEWATERING WASTEWATERS ASSOCIATED WITH CONSTRUCTION ACTIVITIES."
- ALL DISTURBED AREAS EXPOSED FOR EXTENDED PERIOD OF TIME SHALL BE TEMPORARILY STABILIZED. REFER TO THE SOIL EROSION NARRATIVE FOR TIME CONSTRAINTS AND STABILIZATION REQUIREMENTS.
- DURING CONSTRUCTION AND PRIOR TO FINAL STABILIZATION SITE RUNOFF SHALL BE DIRECTED TO TEMPORARY SEDIMENT TRAPS PER DETAILS PRIOR TO DISCHARGING TO THE STORM SEWER SYSTEM.
- REFER TO THE SOIL EROSION AND SEDIMENT CONTROL NARRATIVE AND TO THE STORMWATER POLLUTION CONTROL PLAN NARRATIVE FOR INFORMATION REGARDING DUST CONTROL, DEBRIS MANAGEMENT AND ADDITIONAL STAGING REQUIREMENTS TO BE UTILIZED WITHIN EACH INDIVIDUAL PHASE OF CONSTRUCTION.
- CONTRACTOR TO STABILIZE ALL DISTURBED AREAS PERMANENTLY OR TEMPORARILY BEFORE MOVING TO THE NEXT PHASE.
- REFER TO SOIL EROSION AND SEDIMENTATION CONTROL PLAN - FINAL PHASE FOR REQUIREMENTS OF FINAL STABILIZATION FOR THE SITE. THE CONTRACTOR SHALL PROVIDE FINAL STABILIZATION IN ALL AREAS WHERE WORK HAS BEEN COMPLETED. CONTRACTOR SHALL MAINTAIN PERIMETER MEASURES UNTIL SUCH TIME THE ENGINEER, OWNER AND QUALIFIED INSPECTOR DEEM THE SITE STABILIZED. THE CONTRACTOR, AT THAT TIME, SHALL REMOVE ANY REMAINING TEMPORARY MEASURES INCLUDING RESTORATION OF DISTURBED AREAS DUE TO REMOVAL OF TEMPORARY MEASURES.
- REFER TO THE STORMWATER POLLUTION CONTROL PLAN NARRATIVE SUBMITTED WITH THE GENERAL PERMIT FOR MORE SPECIFIC REQUIREMENTS.
- REFER TO UTILITY AND GRADING AND DRAINAGE PLANS FOR ADDITIONAL UTILITY, GRADING AND DRAINAGE SYSTEM INFORMATION.



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SEDIMENTATION CONTROL  
PLAN - INITIAL PHASE I

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O'MEARA FARM  
VOLUME 560 PAGE 31

INFORMATION PROVIDED IN THIS AREA  
BASED ON DESIGN DOCUMENTS FOR  
NEW HOSPITAL TOWER PROJECT.  
CONTRACTOR SHALL FIELD VERIFY  
CONDITIONS PRIOR TO CONSTRUCTION

PROVIDE TREE  
PROTECTION. REFER TO  
DEMOLITION PLANS FOR  
ADDITIONAL INFORMATION

7  
C7.01  
TYP  
FILTER SOCK AGAINST INSIDE  
PERIMETER OF CONSTRUCTION  
FENCE WHERE PAVEMENT  
EXISTS (TYPICAL)

CONTRACTOR TO  
PROVIDE TEMPORARY  
BITUMINOUS PAVEMENT  
IN ALL ROADWAY AREAS  
GATE (TYPICAL)

CONTRACTOR TO PROVIDE  
CONSTRUCTION ENTRANCE  
AS NEEDED. REFER TO  
S/C7.01 FOR CONSTRUCTION  
ENTRANCE DETAIL

MAINTAIN PREVIOUSLY  
INSTALLED INLET  
PROTECTION (TYPICAL)

APPROXIMATE  
CONSTRUCTION FENCE  
LOCATION (TYPICAL)

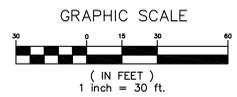
5  
C7.01  
TYP  
SILT FENCE  
(TYPICAL)

6  
C7.01  
TYP  
INSTALL INLET PROTECTION ON  
NEWLY INSTALLED DRAINAGE  
STRUCTURES (TYPICAL)

PROVIDE TREE  
PROTECTION. REFER TO  
DEMOLITION PLANS FOR  
ADDITIONAL INFORMATION

**SOIL EROSION AND SEDIMENTATION  
CONTROL GENERAL NOTES:**

- ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO START OF DEMOLITION AND CONSTRUCTION.
- REFER TO C7.00 AND TO THE STORMWATER POLLUTION CONTROL PLAN FOR SOIL EROSION AND SEDIMENTATION CONTROL NARRATIVES.
- INSTALL AND MAINTAIN INLET PROTECTION ON ALL EXISTING STRUCTURES; EXISTING STRUCTURES INDICATED TO BE REMOVED SHALL BE PROTECTED UNTIL ACTUAL DEMOLITION IS TO OCCUR.
- INSTALL PERIMETER CONTROLS PRIOR TO DEMOLITION. CONTRACTOR SHALL REMOVE, REPLACE AND OR RELOCATE AS NECESSARY TO COORDINATE WITH SEQUENCE OF CONSTRUCTION.
- CONTRACTOR SHALL MAINTAIN SILT FENCE DURING THE DURATION OF THE PROJECT. ADDITIONAL SILT FENCING SHALL BE PROVIDED DURING UTILITY TRENCH EXCAVATIONS AND INSTALLED AS DIRECTED BY THE ENGINEER AND/OR UNIVERSITY REPRESENTATIVE. THE CONTRACTOR SHALL CARRY AN ADDITIONAL 1,000 FEET OF SILT FENCE INCLUDING INSTALLATION AND MAINTENANCE.
- 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 ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
- ALL DISTURBED AREAS EXPOSED FOR EXTENDED PERIOD OF TIME SHALL BE TEMPORARILY STABILIZED. REFER TO THE SOIL EROSION NARRATIVE FOR TIME CONSTRAINTS AND STABILIZATION REQUIREMENTS.
- DURING CONSTRUCTION AND PRIOR TO FINAL STABILIZATION SITE RUNOFF SHALL BE DIRECTED TO TEMPORARY SEDIMENT TRAPS PER DETAILS PRIOR TO DISCHARGING TO THE STORM SEWER SYSTEM.
- REFER TO THE SOIL EROSION AND SEDIMENT CONTROL NARRATIVE AND TO THE STORMWATER POLLUTION CONTROL PLAN NARRATIVE FOR INFORMATION REGARDING DUST CONTROL, DEBRIS MANAGEMENT AND ADDITIONAL STAGING REQUIREMENTS TO BE UTILIZED WITHIN EACH INDIVIDUAL PHASE OF CONSTRUCTION.
- CONTRACTOR TO STABILIZE ALL DISTURBED AREAS PERMANENTLY OR TEMPORARILY BEFORE MOVING TO THE NEXT PHASE.
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- REFER TO UTILITY AND GRADING AND DRAINAGE PLANS FOR ADDITIONAL UTILITY, GRADING AND DRAINAGE SYSTEM INFORMATION.



NOTES

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Revisions		
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PHASE:

PERMITTING

UCONN Health  
Academic Building  
Renovation &  
Addition

DRAWING NAME:  
SOIL EROSION AND  
SEDIMENTATION CONTROL  
PLAN - INITIAL PHASE 2

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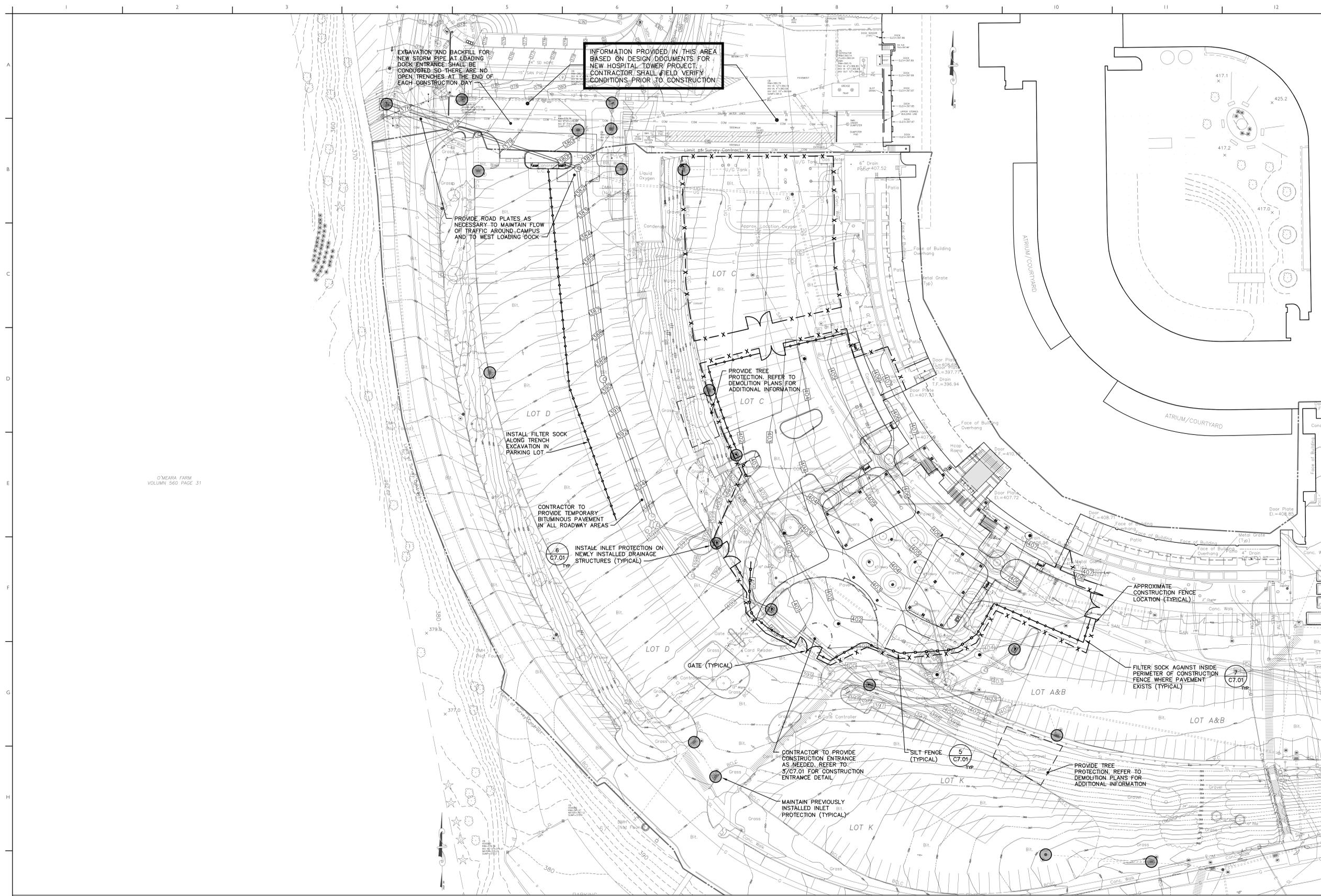
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INFORMATION PROVIDED IN THIS AREA BASED ON DESIGN DOCUMENTS FOR NEW HOSPITAL TOWER PROJECT. CONTRACTOR SHALL FIELD VERIFY CONDITIONS PRIOR TO CONSTRUCTION.

EXCAVATION AND BACKFILL FOR NEW STORM PIPE AT LOADING DOCK ENTRANCE SHALL BE CONDUCTED SO THERE ARE NO OPEN TRENCHES AT THE END OF EACH CONSTRUCTION DAY.

PROVIDE ROAD PLATES AS NECESSARY TO MAINTAIN FLOW OF TRAFFIC AROUND CAMPUS AND TO WEST LOADING DOCK

PROVIDE TREE PROTECTION. REFER TO DEMOLITION PLANS FOR ADDITIONAL INFORMATION

INSTALL FILTER SOCK ALONG TRENCH EXCAVATION IN PARKING LOT

CONTRACTOR TO PROVIDE TEMPORARY BITUMINOUS PAVEMENT IN ALL ROADWAY AREAS

INSTALL INLET PROTECTION ON NEWLY INSTALLED DRAINAGE STRUCTURES (TYPICAL)

GATE (TYPICAL)

CONTRACTOR TO PROVIDE CONSTRUCTION ENTRANCE AS NEEDED. REFER TO S/C7.01 FOR CONSTRUCTION ENTRANCE DETAIL

MAINTAIN PREVIOUSLY INSTALLED INLET PROTECTION (TYPICAL)

SILT FENCE (TYPICAL)

PROVIDE TREE PROTECTION. REFER TO DEMOLITION PLANS FOR ADDITIONAL INFORMATION

APPROXIMATE CONSTRUCTION FENCE LOCATION (TYPICAL)

FILTER SOCK AGAINST INSIDE PERIMETER OF CONSTRUCTION FENCE WHERE PAVEMENT EXISTS (TYPICAL)

NOTES

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Revisions		
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Facsimile 860.767.8719

PHASE:  
PERMITTING

**UCONN Health Academic Building Renovation & Addition**

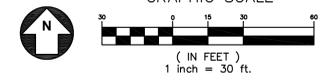
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SOIL EROSION AND SEDIMENTATION CONTROL PLAN - INITIAL PHASE 3

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O'MEARA FARM  
VOLUME 560 PAGE 31

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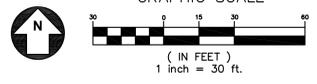
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PERMITTING

UCONN Health  
Academic Building  
Renovation &  
Addition

DRAWING NAME:  
SOIL EROSION AND  
SEDIMENTATION CONTROL  
PLAN - INITIAL PHASE 4

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O'MEARA FARM  
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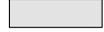
PROVIDE TREE  
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INLET PROTECTION TO BE  
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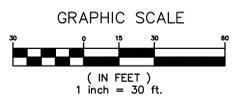
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**SITE FINISHED MATERIAL LEGEND:**

-  SOFT SCAPE
-  COBBLESTONE
-  HARD SCAPE

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**DRAWING NAME:  
SOIL EROSION AND  
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PLAN - FINAL PHASE**

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**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 AGRICULTURE, CIVIL ENGINEERING, LANDSCAPE ARCHITECTURE, SOIL SCIENCE, AND TWO 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;

(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 TO THE FINDINGS TO THE CT DEEP WHO WILL THEN INTERVIEW.

–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.

–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.

**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 ANY 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 SAMPLES REQUIRED BY THE GENERAL PERMIT. 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 OFFSITE 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 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.

–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 THROUGH 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 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.

**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 THE NEXT 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**

- 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.
- 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).
- 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.
- 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.
- 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.
- SUSPEND EARTHWORK CONSTRUCTION ACTIVITIES FOR MAJOR STORM EVENTS AND IMPLEMENT ADDITIONAL SEDIMENTATION AND EROSION CONTROL MEASURES, AS NECESSARY.
- 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.
- 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.
- PROVIDE SILT FENCE BARRIER AROUND STOCKPILES
- EROSION CHECK DAMS CONSISTING OF STONE, SILT FENCE OR HAYBALES SHALL BE INSTALLED TO PREVENT SILTATION DOWNGRADE OF CONSTRUCTION.
- SILT FENCE FABRIC BARRIERS SHALL BE INSTALLED AT ALL OUTLETS AND ALONG TEE OF CRITICAL SLOPES.
- FLARED END DISCHARGE AREAS SHALL BE PROTECTED WITH RIP RAP PADS. ENERGY DISSIPATORS WILL BE PROVIDED AS NECESSARY.
- 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.
- CREATE TEMPORARY SEDIMENT TRAPS AS NECESSARY WITHIN WORK AREA AND SIZED AT 3,600 CF/ACRE CONTRIBUTING.
- INSTALL RIP RAP OR GRASS LINED SWALES TO DIRECT DRAINAGE TO TEMPORARY SEDIMENT TRAPS.
- ADDITIONAL CONTROL MEASURES SHALL BE INSTALLED DURING THE CONSTRUCTION PERIOD IS NECESSARY OR REQUIRED.
- WHEN RIPRAP IS USED, PROVIDE FABRIC BETWEEN SOIL AND RIPRAP
- 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.
- PROTECT STREET SIDE OF CONSTRUCTION ENTRANCES AT END OF THE WORK DAY BY SILT FENCE FABRIC, HAYBALES OR STONE BERMS.
- AS TOPOGRAPHY CHANGES, DIRECT STORM WATER RUNOFF TO TEMPORARY SEDIMENT TRAPS.
- 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.
- MAINTAIN CONSTRUCTION ENTRANCES AND HAUL ROADS REGULARLY. REMOVE AND REPLACE STONE SURFACE AS NECESSARY.
- SEDIMENT REMOVAL FROM CONTROL MEASURES SHALL BE DISPOSED OF IN A MANNER WHICH IS CONSISTENT WITH THE INTENT OF THE PLAN.
- PROVIDE STREET SWEEPING ON A REGULAR BASIS.
- ON-SITE TRUCKS SHALL HAVE COVERS TO MINIMIZE DUST.

**EROSION AND SEDIMENTATION CONTROL CONSTRUCTION STAGES:**

**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 BEYOND 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. RESURFACE 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 FOR 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			
SOODING	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 RECP'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:				

NOTES

NOT FOR CONSTRUCTION

Revisions		
No	Name	Date

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PHASE:  
PERMITTING

UCONN Health  
Academic Building  
Renovation &  
Addition

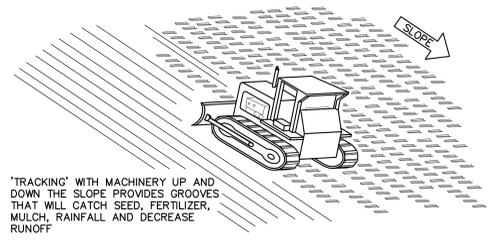
DRAWING NAME:  
EROSION CONTROL  
NARRATIVE

PRELIMINARY NOT FOR CONSTRUCTION  
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JOB #: 1502 UCONN HEALTH PROJECT # 901729  
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DRAWN BY: DRP DATE: 11/21/2014  
CHECKED BY: TSD SCALE: NONE

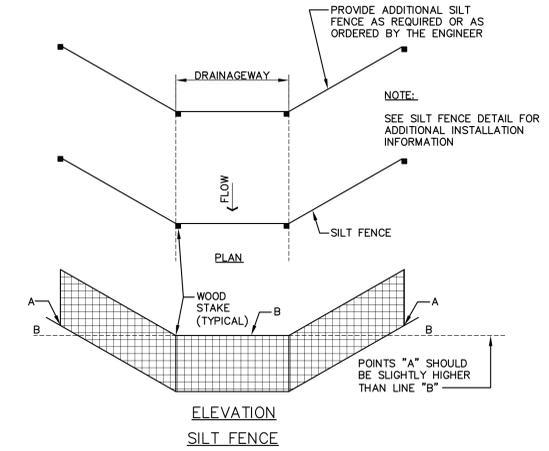
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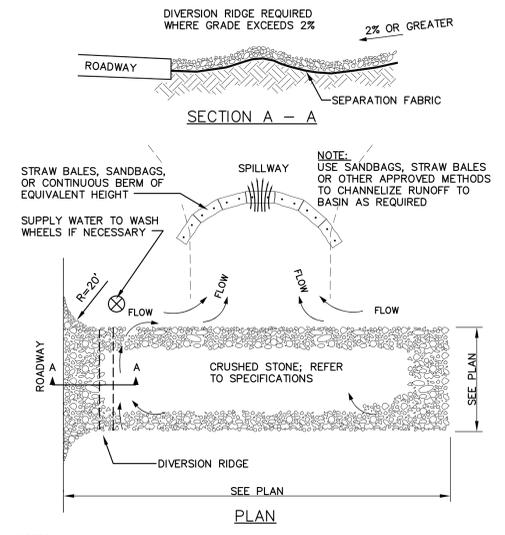
'TRACKING' WITH MACHINERY UP AND DOWN THE SLOPE PROVIDES GROOVES THAT WILL CATCH SEED, FERTILIZER, MULCH, RAINFALL AND DECREASE RUNOFF

FOR UNVEGETATED SLOPES USE DOZER TREADS TO CREATE GROOVES PERPENDICULAR TO SLOPE DIRECTION TO MINIMIZE RUN-OFF VELOCITIES

**1 SLOPE TRACKING / SURFACE ROUGHENING**  
C7.01 NOT TO SCALE

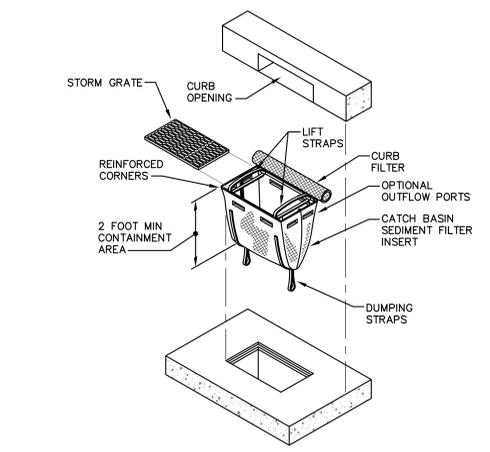


**2 TYPICAL SILT FENCE CHECK DAM**  
C7.01 NOT TO SCALE

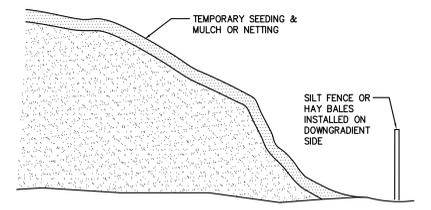


- NOTES:**
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT.
  2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO 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.

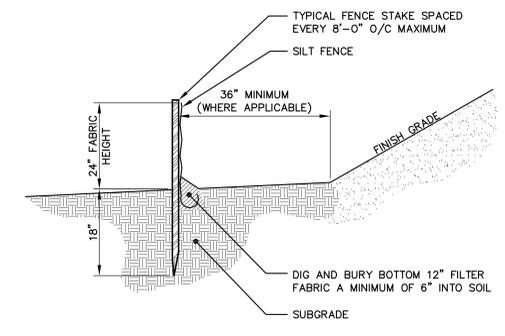
**3 TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT**  
C7.01 NOT TO SCALE



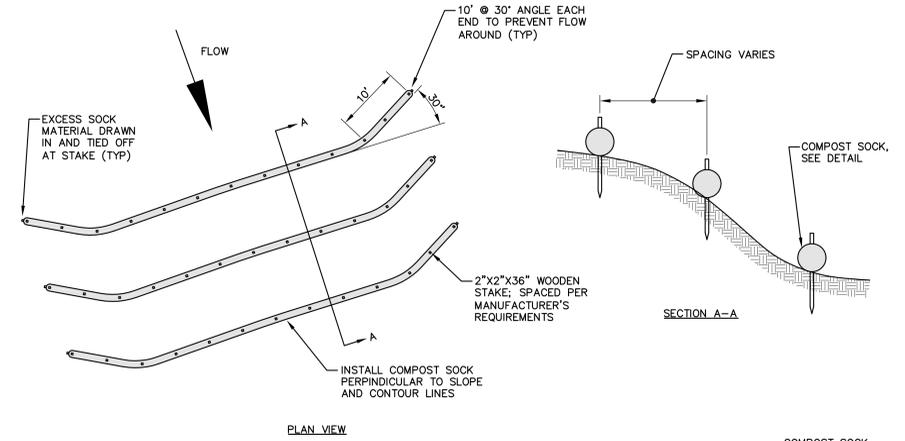
**6 INLET PROTECTION DETAIL AT CATCH BASIN**  
C7.01 NOT TO SCALE



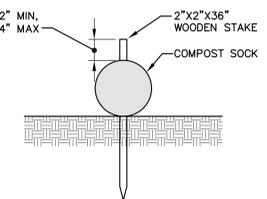
**4 TEMPORARY STOCKPILE DETAIL**  
C7.01 NOT TO SCALE



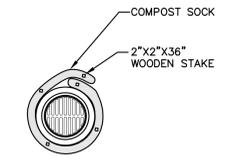
**5 TYPICAL SILT FENCE**  
C7.01 NOT TO SCALE



**SLOPE INSTALLATION**



**COMPOST SOCK DETAIL**



**CATCH BASIN INSTALLATION (GRASS AREAS)**

**7 COMPOST FILTER SOCK DETAIL**  
C7.01 NOT TO SCALE

NOTES

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Revisions		
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UCONN Health  
Academic Building  
Renovation &  
Addition

DRAWING NAME:  
EROSION CONTROL  
DETAILS

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JOB #: 1502 UCONN HEALTH PROJECT # 901729  
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DRAWN BY: DRP DATE: 11/21/2014  
CHECKED BY: TSD SCALE: AS NOTED

SHEET:  
C7.01



**Appendix E:**

**Water Quality Flow Calculation**

## Water Quality Volume

1. Compute Volumetric Runoff Coefficient, R

$R = 0.05 + 0.009(i)$  where (i) is percent impervious cover, i.e. use 80 for 80% impervious cover

$$i = \frac{\text{Impervious Area (ac)}}{\text{Total Area (ac)}} = \frac{3.199 \text{ acres}}{3.448 \text{ acres}} = 93 \%$$

2. Compute Water Quality Volume, WQV

$$WQV = \frac{(1") (R) (A)}{12} \quad \text{where: } R = \text{volumetric runoff coefficient} = 0.05 + 0.009(i)$$

A = site area in acres

$$WQV = \frac{(1") (0.89) (3.45)}{12} = \boxed{0.254} \text{ ac-ft}$$

CT DEP Stormwater Quality  
Manual (pg. 7-3)

$$\boxed{11077} \text{ ft}^3$$

## Water Quality Flow

1. Compute the water quality flow (WQF) for off-line stormwater treatment

- a. Compute the runoff depth, Q

$$Q = \frac{[WQV (\text{ac-ft})] \times [12 (\text{in/ft})]}{\text{Drainage Area (acres)}} = \frac{0.25 \times 12}{3.45} = 0.89 \text{ in}$$

- b. Compute the NRCS Runoff Curve Number (CN)

$$CN = \frac{1000}{[10 + 5P + 10Q - 10(Q^2 + 1.25QP)^{1/2}]} \quad P = 1 (\text{in})$$

$$CN = \frac{1000}{10.10} = 99$$

- c. Read initial abstraction,  $I_a$  (Table 4-1 in Chapter 4, TR-55)

- f. Compute water quality flow (WQF)

- d. Compute,  $I_a / P$

$$I_a / P = 0.041$$

- e. Read Unit Peak Discharge,  $q_u$  (Exhibit 4-III in Chapter 4, TR-55)

$$WQF = (q_u) (A) (Q)$$

For  $T_c$  0.1 &  $I_a / P = 0.041$

$$q_u = 445 \text{ csm/in (Type III Storm)}$$

$$WQF = \boxed{2.12} \text{ cfs}$$



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SUBJECT: Water Quality Volume & Flow for HDS01  
PREPARED BY: DP DATE:09/04/14 CHK BY: TSD