

SOIL EROSION AND SEDIMENT CONTROL PLAN NOTES

- ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCES, OR IN THEIR PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
- ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN 30 DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PREVENTS THE ESTABLISHMENT OF A TEMPORARY COVER, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW OR EQUIVALENT MATERIAL, AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO NJ STATE STANDARDS.
- PERMANENT VEGETATION SHALL BE SEED OR SODDED ON ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER FINAL GRADING. MULCH WILL BE USED FOR PROTECTION UNTIL SEEDING IS ESTABLISHED.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE NJ STATE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY, 7TH EDITION LAST REVISED JULY 2017.
- A SUB-BASE COURSE WILL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF IMPROVEMENTS IN ORDER TO STABILIZE STREETS, ROADS, DRIVEWAYS AND PARKING AREAS. IN AREAS WHERE NO UTILITIES ARE PRESENT, THE SUB-BASE SHALL BE INSTALLED WITHIN 15 DAYS OR PRELIMINARY GRADING.
- IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING ALL CRITICAL AREAS SUBJECT TO EROSION (I.E.: STEEP SLOPES, ROADWAY EMBANKMENTS) WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO THE NJ STATE STANDARDS.
- ANY STEEP SLOPES RECEIVING PIPELINE INSTALLATION WILL BE BACKFILLED AND STABILIZED DAILY, AS THE INSTALLATION PROCEEDS (I.E.: SLOPES GREATER THAN 3:1)
- TRAFFIC CONTROL STANDARDS REQUIRE THE INSTALLATION OF A 50'X30'X6" PAD OF 1 1/2" OR 2" STONE, AT ALL CONSTRUCTION DRIVEWAYS, IMMEDIATELY AFTER INITIAL SITE DISTURBANCE.
- THE HUDSON-ESSEX-PASSAIC SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED IN WRITING 48 HOURS IN ADVANCE OF ANY LAND DISTURBING ACTIVITY.
- AT THE TIME WHEN THE SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS GOING TO BE ACCOMPLISHED, ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER, SHALL BE REMOVED OR TREATED IN SUCH A WAY THAT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE GROUND COVER. IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, NON-VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL HAVE TO BE EMPLOYED. TOPSOIL SHOULD BE HANDLED ONLY WHEN IS DRY ENOUGH TO WORK WITHOUT DAMAGING THE SOIL STRUCTURE. A UNIFORM APPLICATION TO A DEPTH OF 5 INCHES (UNSETTLED) IS REQUIRED ON ALL SITES.
- IN THAT NUSA 4:24-39 ET SEQ., REQUIRES THAT NO CERTIFICATE OF OCCUPANCY BE ISSUED BEFORE THE PROVISIONS OF THE CERTIFIED PLAN FOR SOIL EROSION AND SEDIMENT CONTROL HAVE BEEN COMPLIED WITH FOR PERMANENT MEASURES, ALL SITE WORK FOR SITE PLANS AND ALL WORK AROUND INDIVIDUAL LOTS IN SUBDIVISIONS, WILL HAVE TO BE COMPLETED PRIOR TO THE DISTRICT ISSUING A REPORT OF COMPLIANCE FOR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE MUNICIPALITY.
- CONDUIT OUTLET PROTECTION MUST BE INSTALLED AT ALL REQUIRED OUTFALLS PRIOR TO THE DRAINAGE SYSTEM BECOMING OPERATIONAL.
- ANY CHANGES TO THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN WILL REQUIRE THE SUBMISSION OF REVISED SOIL EROSION AND SEDIMENT CONTROL PLANS TO THE DISTRICT FOR RE-CERTIFICATION. THE REVISED PLANS MUST MEET ALL CURRENT NJ STATE SOIL EROSION & SEDIMENT CONTROL STANDARDS.
- THE HUDSON-ESSEX-PASSAIC SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED OF ANY CHANGES IN OWNERSHIP.
- MULCHING TO THE NJ STANDARDS IS REQUIRED FOR OBTAINING A CONDITIONAL REPORT OF COMPLIANCE. CONDITIONALS ARE ONLY ISSUED WHEN THE SEASON PROHIBITS SEEDING.
- CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL ADJACENT ROADS CLEAN DURING LIFE OF CONSTRUCTION PROJECT.
- THE DEVELOPER SHALL BE RESPONSIBLE FOR REMEDIATING ANY EROSION OR SEDIMENT PROBLEMS THAT ARISE AS A RESULT OF ONGOING CONSTRUCTION AT THE REQUEST OF THE HUDSON-ESSEX-PASSAIC SOIL CONSERVATION DISTRICT.
- HYDRO SEEDING IS A TWO-STEP PROCESS. THE FIRST STEP INCLUDES SEED, FERTILIZER, LIME, ETC., ALONG WITH MINIMAL AMOUNTS OF MULCH TO PROMOTE CONSISTENCY, GOOD SEED TO SOIL CONTACT, AND GIVE A VISUAL INDICATION OF COVERAGE. UPON COMPLETION OF SEEDING OPERATION, HYDRO-MULCH SHOULD BE APPLIED AT A RATE OF 1500 LBS. PER ACRE IN SECOND STEP. THE USE OF HYDRO-MULCH, AS OPPOSED TO STRAW, IS LIMITED TO OPTIMUM SEEDING DATES AS LISTED IN THE NJ STANDARDS.

GRADING AND DRAINAGE NOTES

- GRADING AND DRAINAGE**
- SITE DISTURBANCE SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN INSTALLED, AND ALL GOVERNING AGENCIES HAVE BEEN NOTIFIED BY THE CONTRACTOR.
 - THE CONTRACTOR SHALL FLUSH AND CLEAN ALL EXISTING ON-SITE STORM PIPING AND STRUCTURES THAT ARE TO REMAIN WITHIN THE LIMITS OF WORK OR AS INDICATED ON THE PLANS.
 - COMPACTION CRITERIA FOR FILL PLACED IN THE FOLLOWING AREAS SHALL MEET OR EXCEED THE FOLLOWING MINIMUM PERCENTAGE OF MAXIMUM MODIFIED PROCTOR DRY DENSITY AS DETERMINED BY ASTM D-1557 USED ON REPRESENTATIVE SOIL SAMPLES, UNLESS MORE STRINGENT CRITERIA IS GIVEN ELSEWHERE:

FILL AREA	% OF MAXIMUM MODIFIED PROCTOR DRY DENSITY
PAVEMENT, SIDEWALKS, AND ROADWAYS	95%
LANDSCAPED AREAS	92%
TRENCH BACKFILL	95%

- PROTECT SUBGRADE FROM EXCESSIVE WHEEL LOADING DURING DEMOLITION, INCLUDING CONCRETE TRUCKS AND DUMP TRUCKS.
- REMOVE AREAS OF FINISHED SUBGRADE FOUND TO BE UNSATISFACTORY BY OWNER'S ENGINEER AND REPLACE IN A MANNER THAT WILL COMPLY WITH COMPACTION REQUIREMENTS BY USE OF MATERIAL EQUAL TO OR BETTER THAN BEST SUBGRADE MATERIAL ON SITE. SURFACE OF SUBGRADE AFTER COMPACTION SHALL BE HARD, UNIFORM, SMOOTH, STABLE, AND TRUE TO GRADE AND CROSS-SECTION AND SHALL NOT RUT OR WEAVE WHEN LOADED WITH A FULL DUMP TRUCK.

TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION

DISTURBED AREAS SHALL BE MAINTAINED IN A ROUGH-GRADED CONDITION AND TEMPORARILY SEEDED AND HAY MULCHED (OR HYDROSEEDED) UNTIL PROPER WEATHER EXISTS FOR THE ESTABLISHMENT OF PERMANENT VEGETATIVE COVER. THE FOLLOWING SEEDING SCHEDULE SHALL BE USED FOR TEMPORARY SEEDING:

- LIME - 90 LBS/1,000 SF GROUND LIMESTONE.
- FERTILIZER - 14 LBS/1,000 SF 10-20-10 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN, WORKED INTO THE SOIL TO A DEPTH OF 4 INCHES.
- SEED - PERENNIAL RYEGRASS - 0.70 LBS/1,000 SF PLANT BETWEEN MARCH 1 AND MAY 15 OR BETWEEN AUGUST 15 AND OCTOBER 1.
- MULCH - SALT HAY OR SMALL GRAIN STRAW AT A RATE OF 70 TO 90 LBS/1,000 SF; TO BE APPLIED ACCORDING TO NEW JERSEY STANDARDS. MULCH SHALL BE SECURED BY APPROVED METHODS (I.E. LIQUID MULCH BINDER, CRIMPING PEG AND TWINE).

CONSTRUCTION NOTES

- CONTRACTOR TO COORDINATE STAGING AREAS, TRAILER LOCATION AND TEMPORARY STOCKPILE LOCATIONS WITH OWNER.
- VEHICLE WASH DOWN PADS TO BE PROVIDED THROUGHOUT THE DURATION OF THE PROJECT.
- INLET PROTECTION REQUIREMENTS SHALL NOT BE LIMITED TO STRUCTURES LOCATED WITHIN THE PHASE LIMITS OF WORK. ANY AND ALL INLETS WHICH COULD BE AFFECTED BY RUNOFF SHALL BE PROTECTED.
- CONTRACTOR MAY ELECT TO PROVIDE HAY BALES OR ALTERNATIVE MEANS OF INLET PROTECTION TO EXISTING INLETS. ALL ALTERNATIVES MUST BE APPROVED BY THE HUDSON-ESSEX-PASSAIC SOIL CONSERVATION DISTRICT. COPIES OF DETAIL AND APPROVAL TO BE PROVIDED TO THE OWNER AND OWNER'S REPRESENTATIVE.
- CONTRACTOR MUST PROTECT WORK, EXISTING PREMISES AND OWNER'S OPERATION FROM THEFT, VANDALISM AND UNAUTHORIZED ENTRY.
- CONTRACTOR MUST RESTRICT ENTRANCE OF PERSONS AND VEHICLES INTO PROJECT SITE. ALLOW ENTRANCE TO AUTHORIZED PERSONS WITH PROPER IDENTIFICATION ONLY. MAINTAIN A LOG OF WORKERS AND VISITORS TO BE AVAILABLE TO OWNER ON REQUEST.

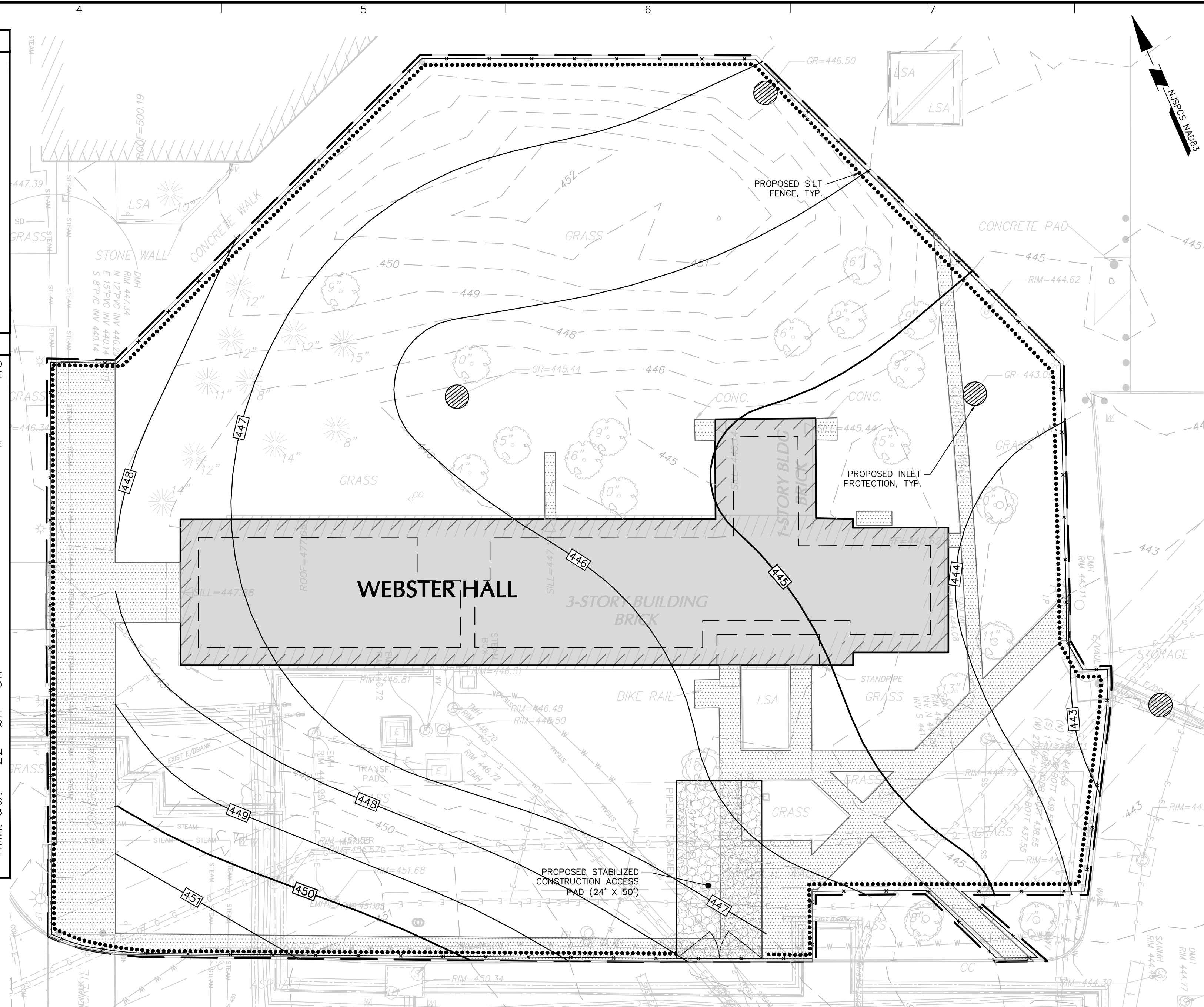
SEQUENCE AND DURATION OF DEMOLITION

ACTIVITY	DURATION
1. NOTIFY THE HUDSON-ESSEX-PASSAIC SOIL CONSERVATION DISTRICT AT LEAST 72 HOURS PRIOR TO ANY SITE DISTURBANCES.	1 DAY
2. PLACE AND MAINTAIN SILT FENCE AS SHOWN ON THE PLAN.	3 DAYS
3. INSTALL STABILIZED CONSTRUCTION ACCESS PAD IMMEDIATELY AFTER INITIAL DISTURBANCE AS PER STANDARDS ON DRAWING. SITE TRAFFIC SHOULD ONLY USE THESE AREAS FOR INGRESS AND EGRESS.	1 DAY
4. EQUIP ALL INLETS WITH INLET PROTECTION IMMEDIATELY UPON START OF DEMOLITION.	1 DAY
5. CLEAR AND GRUB AREAS CONTAINING VEGETATION AS REQUIRED TO COMMENCE DEMOLITION.	ON-GOING
6. COMPLETE DEMOLITION OF BUILDING, SITE FEATURES AND UTILITIES.	6 WEEKS
7. COMPLETE FINAL SITE GRADING.	1 WEEK
8. ALL SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED UNTIL ALL DEMOLITION ACTIVITIES ARE COMPLETED.	ON-GOING
9. CLEAN ALL SITE DRAINAGE STRUCTURES AND PIPES OF SILT AND DEBRIS. DOWNSTREAM/OFF-SITE DRAINAGE FACILITIES SHALL BE INSPECTED AND CLEANED OF SILT AND DEBRIS RESULTING FROM SITE DEMOLITION PRIOR TO FINAL TURNOVER.	2 DAYS
10. NOTIFY THE HUDSON-ESSEX-PASSAIC SOIL CONSERVATION DISTRICT UPON COMPLETION OF DEMOLITION.	1 DAY
TOTAL DURATION:	44 DAYS

PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION

PERMANENT SEEDING SHALL BE IN ACCORDANCE WITH "STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY," LAST REVISED JULY 2017. THE FOLLOWING SEEDING SCHEDULE SHOULD BE USED FOR PERMANENT SEEDING (UNLESS OTHERWISE NOTED):

- APPLY TOPSOIL TO A DEPTH OF 4 INCHES
 - LIME - 90 LBS/1,000 SF GROUND LIMESTONE
 - FERTILIZER - 14 LBS/1,000 SF 10-20-10 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN, WORKED INTO THE SOIL TO A DEPTH OF 4 INCHES.
 - SEED - LAWN AREAS - STANDARD SEED MIX 15
 HARD FESCUE - 2.70 LBS/1,000 SF
 RED FESCUE - 1.50 LBS/1,000 SF
 SPREADING FESCUE - 1.00 LBS/1,000 SF
 PERENNIAL RYEGRASS - 0.70 LBS/1,000 SF
 KENTUCKY BLUEGRASS - 0.90 LBS/1,000 SF
 OPTIMAL PLANTING PERIOD BETWEEN MARCH 1 AND MAY 31
 - SEED - RESTORATION AREAS - STANDARD SEED MIX 5
 SWITCHGRASS - 0.35 LBS/1,000 SF
 BIG BLUESTEM - 0.10 LBS/1,000 SF
 LITTLE BLUESTEM - 0.10 LBS/1,000 SF
 SAND LOVEGRASS - 0.10 LBS/1,000 SF
 COASTAL PANICGRASS - 0.25 LBS/1,000 SF
 WILDFLOWER MIX 605 BY APPLEWOOD OR APPROVED EQUAL
 WILDFLOWER MIX 605 - 10 LBS/ACRE
 - MULCH - SALT HAY OR SMALL GRAIN STRAW AT A RATE OF 70 TO 90 LBS/1,000 SF; TO BE APPLIED ACCORDING TO NEW JERSEY STANDARDS. MULCH SHALL BE SECURED BY APPROVED METHODS (I.E. LIQUID MULCH BINDER, CRIMPING PEG AND TWINE).
- APPLICATIONS SHOULD BE HEAVIER AT EDGES WHERE WIND CATCHES THE MULCH, IN VALLEYS, AND AT CRESTS OF BANKS. REMAINDER OF AREAS SHOULD BE UNIFORM IN APPEARANCE.
 - USE ONE OF THE FOLLOWING: EMULSIFIED ASPHALT - (SS-1, CSS-1, CMS-2, MS-2, RS-1, RS-2, CRS-1, AND CRS-2). APPLY 0.04 GAL./SQ.YD. OR 194 GAL./ACRE ON FLAT SLOPES LESS THAN 8 FEET HIGH. ON SLOPES 8 FEET OR HIGHER, USE 0.075 GAL./SQ.YD. OR 363 GAL./ACRE. SYNTHETIC OR ORGANIC BINDERS - BINDERS SUCH AS CURASOL, DCA-70, PETRO-SET, AND TERRA-TACK MAY BE USED AT RATES RECOMMENDED BY THE MANUFACTURER TO ANCHOR MULCH MATERIALS. NOTE: ALL NAMES GIVEN ABOVE ARE REGISTERED TRADE NAMES. THIS DOES NOT CONSTITUTE A RECOMMENDATION OF THESE PRODUCTS TO THE EXCLUSION OF OTHER PRODUCTS.



Date	Description	No.
Revisions		

DRAFT

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LANGAN

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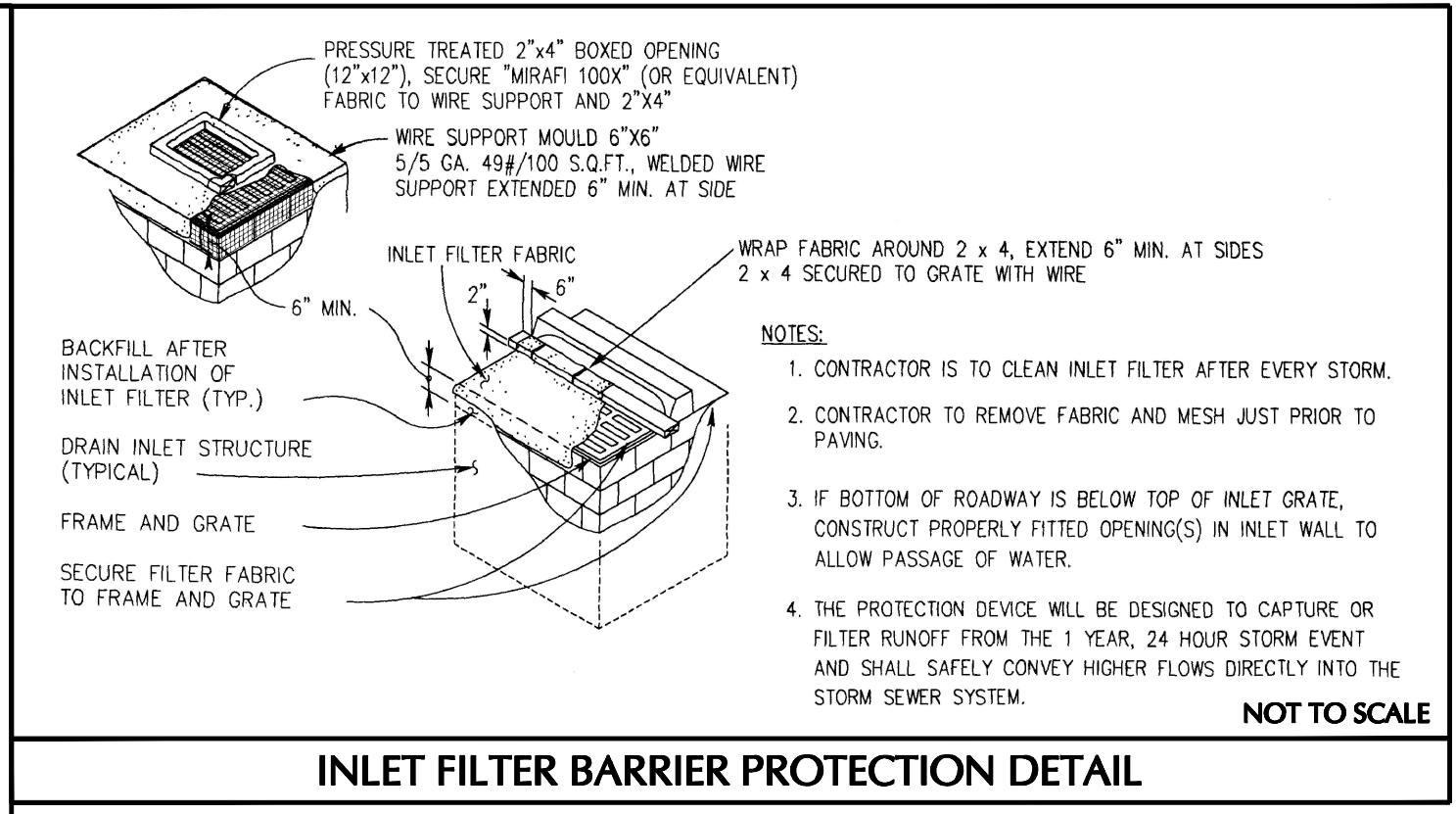
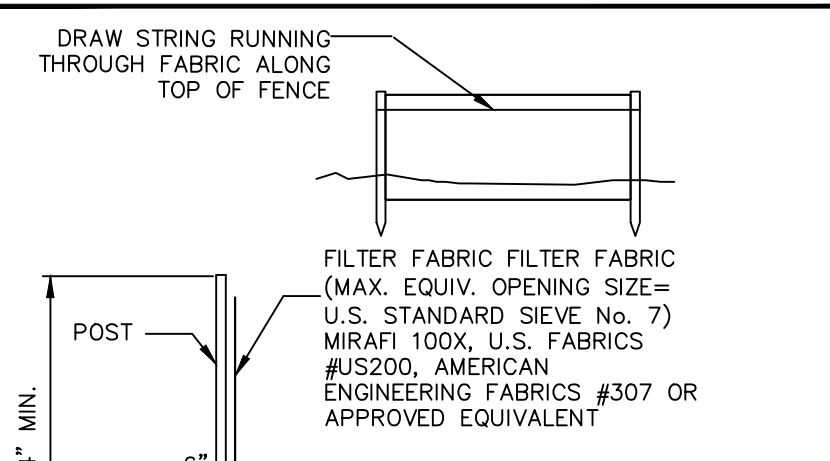
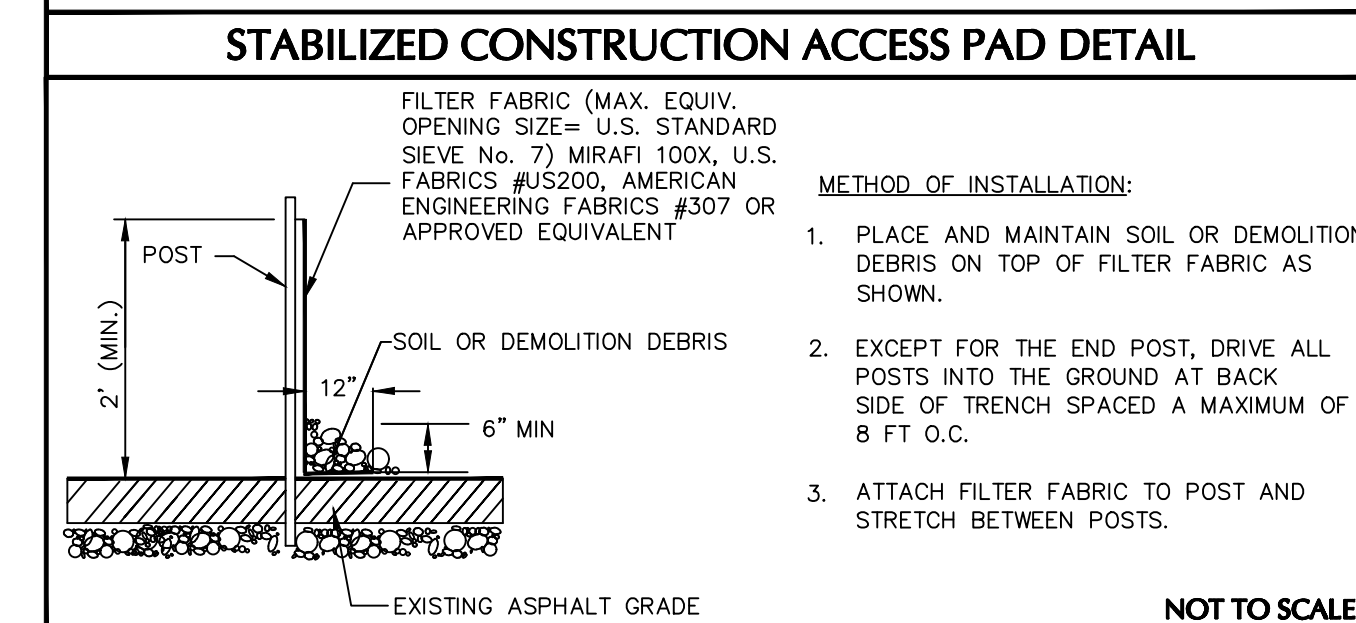
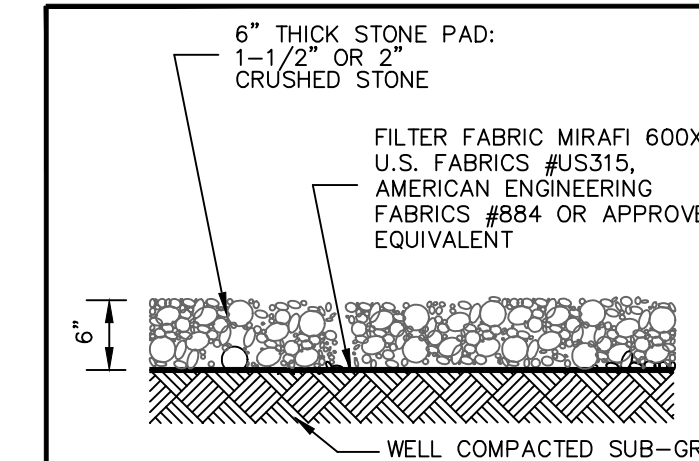
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Project: **MSU NEW CSAM BUILDING**

MONTCLAIR
NEW JERSEY

Drawing Title: **SOIL EROSION & SEDIMENT CONTROL PLAN**

Project No.	100985401	Drawing No.	CE101
Date	6/13/2024	Sheet	
Drawn By	SLA	Checked By	PGM



SOIL EROSION & SEDIMENT CONTROL LEGEND

SYMBOL	DESCRIPTION
---	CONTRACT LIMIT LINE/LIMIT OF DISTURBANCE
.....	SILT FENCE
---	STABILIZED CONSTRUCTION ACCESS
-452-	EXISTING CONTOUR
-452-	PROPOSED CONTOUR
○	INLET PROTECTION

LIMIT OF DISTURBANCE = 63,414 S.F. / 1.46 A.C.

EXEMPTION NOTE:

- THE PROJECT SITE IS LOCATED WITHIN THE METROPOLITAN PLANNING AREA PA-1 AND HAS BEEN PREVIOUSLY DEVELOPED. THIS QUALIFIES AS AN "URBAN REDEVELOPMENT AREA" WHICH IS EXEMPT FROM SUBSOIL DECOMPACTION AS LISTED UNDER ITEM #6 ON PAGE 19-2 OF THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY

REFERENCE NOTE:

- BOUNDARY AND TOPOGRAPHIC INFORMATION OBTAINED DRAFT SURVEY PREPARED BY LANGAN ENGINEERING AND ENVIRONMENTAL SERVICES, LLC.
- EXISTING UTILITY INFORMATION OBTAINED FROM AS-BUILT SURVEY ENTITLED "DCO/MONTCLAIR STATE UNIVERSITY CAMPUS CEC/CHCP PROJECT, MONTCLAIR/LITTLE FALLS, NEW JERSEY. CEC/CHCP AS-BUILT," DATED JANUARY 10, 2013, LAST REVISED JUNE 18, 2013.