

GRADING AND DRAINAGE NOTES:

- 1. NO TREES SHALL BE REMOVED AND/OR VEGETATION DISTURBED EXCEPT AS NECESSARY FOR GRADING PURPOSES AS APPROVED BY ARCHITECT/ENGINEER. CONTRACTOR TO USE EXTREME CAUTION WHEN WORKING AROUND EXISTING TREES. REFER TO LANDSCAPE PLANS FOR TREE PROTECTION FENCING.
- 2. TOPSOIL SHALL BE STRIPPED FROM ALL CUT AND FILL AREAS, STOCKPILED AND REDISTRIBUTED OVER GRADED AREAS TO A MINIMUM DEPTH OF 6".
- 3. TOPSOIL USED FOR FINISH GRADING SHOULD NOT CONTAIN GRAVEL ROCK. AGGREGATE. OR CONSTRUCTION DEBRIS.
- 4. ALL GRADED AREAS SHALL BE MULCHED AND SEEDED AS SOON AS POSSIBLE AFTER GRADING IS COMPLETED.
- 5. CONSTRUCT TEMPORARY EROSION CONTROL AS SHOWN ON THE DRAWINGS PRIOR TO BEGINNING GRADING OPERATIONS.
- 6. SILT BARRIERS SHALL BE CLEANED OF ACCUMULATED SEDIMENT WHEN APPROXIMATELY 50% FILLED. REPLACE DAMAGED AND WORN OUT SILT BARRIERS AS DIRECTED BY THE EROSION CONTROL SPECIALIST.
- 7. ALL LOCATIONS OF TEMPORARY EROSION CONTROL DEVICES SHALL BE SUBJECT TO ADJUSTMENT AS DIRECTED BY THE EROSION CONTROL SPECIALIST.
- 8. WHEN THE TEMPORARY SOIL EROSION CONTROL DEVICES ARE NO LONGER REQUIRED FOR THE INTENDED PURPOSE (IN THE OPINION OF THE EROSION CONTROL SPECIALIST), THEY SHALL BE REMOVED.
- 9. ALL NEW STRUCTURES AND EXISTING STRUCTURES SHALL HAVE SEDIMENT REMOVED PRIOR TO FINAL ACCEPTANCE.
- 10. TOP OF GRATE ELEVATIONS FOR CURB INLETS ARE GIVEN TO THE CENTER OF THE INLETS AT THE FACE OF CURB. THE GRATE SHALL SLOPE LONGITUDINALLY WITH THE PAVEMENT GRADE. ADJUST THE CASTING TO FALL ALONG THE CURB LINE.
- 11. NEW SPOT ELEVATIONS AND CONTOURS REPRESENT FINISHED GRADE AND TOP OF FINISHED PAVEMENT.
- 12. CONTRACTOR SHALL VERIFY EXISTING ELEVATIONS PRIOR TO **BEGINNING WORK.**
- 13. EXISTING MANHOLE CASTINGS TO REMAIN SHALL BE RESET TO MATCH NEW GRADE.
- 14. ALL CURBS SHALL BE BACKFILLED WITH TOPSOIL AND SEEDED AND MULCHED, UNLESS OTHERWISE NOTED. FINISHED TOPSOIL GRADE TO BE MINIMUM OF 4" BELOW TOP OF CURB.
- 15. ALL PIPES UNDER PAVED AREAS SHALL BE BACKFILLED WITH CRUSHED STONE. ALL PIPES UNDER LAWN AREAS SHALL BE BACKFILLED WITH SATISFACTORY MATERIALS.
- 16. DRAINAGE STRUCTURES WILL CONSIST OF SHERMAN DIXIE CONCRETE PRODUCTS FOR ENDWALLS AND OUTLET STRUCTURES OR APPROVED EQUAL THAT MEETS METRO DAVIDSON COUNTY SPECIFICATIONS.
- **17. THE CONTRACTOR SHALL PERFORM GRADING TO MAINTAIN POSITIVE** DRAINAGE AT ALL TIMES.
- **18. PERVIOUS PAVERS SHALL BE INSTALLED PER MANUFACTURER SPECIFICATIONS** AND IN ACCORDANCE WITH METRO STORMWATER BEST MANAGEMENT PRACTICES PTP-15.

ADA DISCLAIMER:

ALL CONSTRUCTION ACTIVITIES SHALL BE COMPLETED IN FULL COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT ("ADA") AND ARCHITECTURAL AND TRANSPORATION BARRIERS COMPLIANCE BOARD, FEDERAL REGISTER 36 CFR PARTS 1190 AND 1191, ASSESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES; ARCHITECTURAL BARRIERS ACT (ABA) ACCESSIBILITY GUIDELINES; PROPOSED RULE, PUBLISHED IN THE FEDERAL REGISTER ON JULY 23, 2004, AS HAS BEEN ADOPTED BY METRO.

THE EROSION CONTROL PLAN WAS PREPARED BY A CPESC, JAMIE GILLESPIE. P.E. PER METRO WATER SERVICES AND TDEC REQUIREMENTS. AN EPSC WILL BE ASSIGNED TO THIS PROJECT UNTIL ITS COMPLETION AND THE ISSUANCE OF A USE AND OCCUPANCY PERMIT. UPON IDENTIFICATION OF THE OWNER'S EPSC HE/SHE WILL SIGN THE GRADING PLAN AND PROPERLY REGISTER WITH METRO WATER SERVICES STORMWATER DIVISION.

GILLESPIE, P.E., CPESC

THE PROJECT ASSOCIATED WITH THESE SUBMITTED PLANS DOES NOT REQUIRE COVERAGE UNDER THE TENNESSEE GENERAL STORM WATER PERMIT

must

05/27/14

SIGNATURE **PROJECT ENGINEER**

DATE

AS-BUILT NOTE:

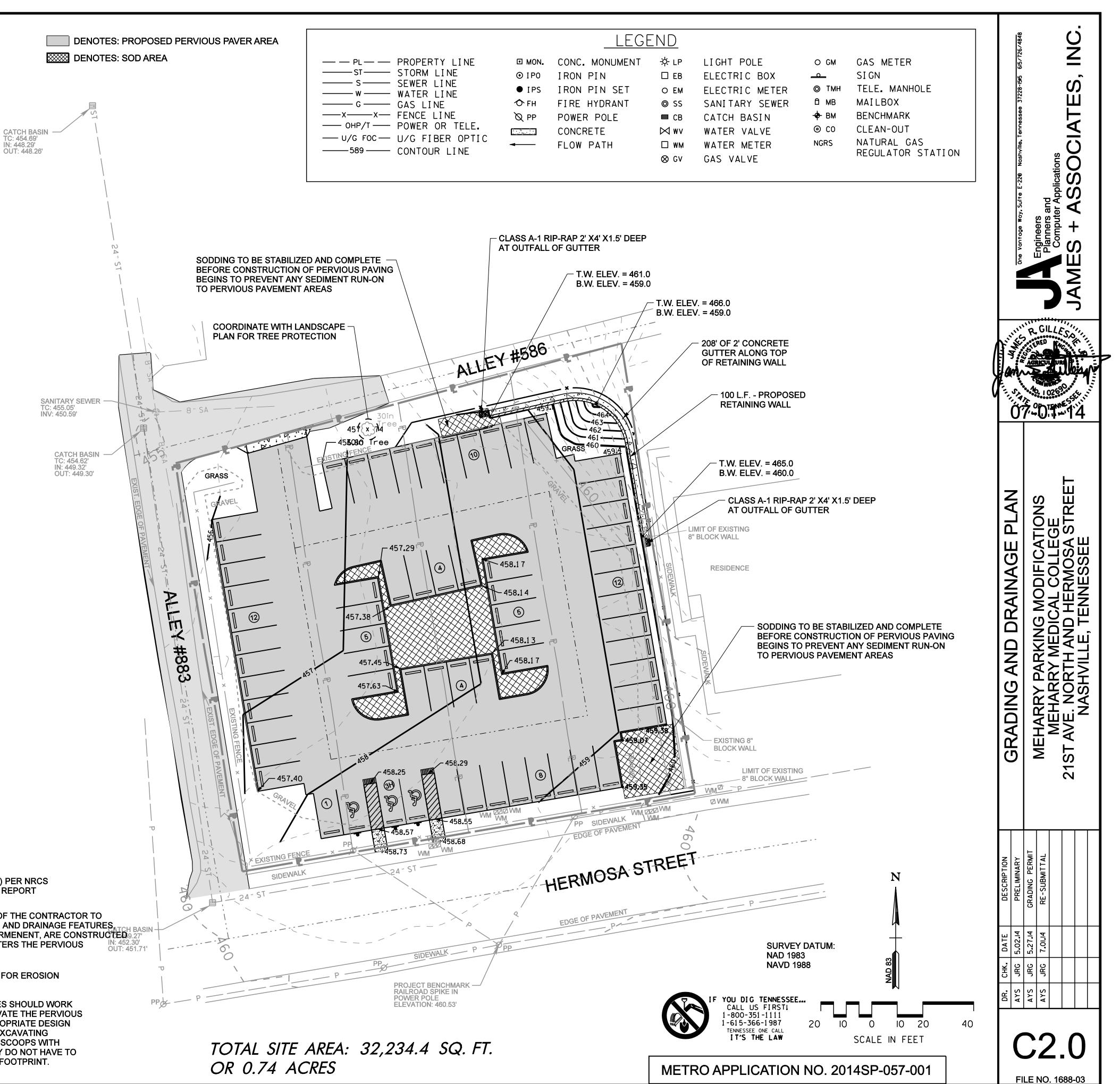
IN ACCORDANCE WITH THE METRO STORMWATER MANAGEMENT MANUAL, VOLUME 1, SECTION 3.9, AS-BUILT CERTIFICATIONS, MWS STORMWATER DIVISION MUST APPROVE THE FOLLOWING AS-BUILTS PRIOR TO ISSUANCE OF THE USE AND OCCUPANCY PERMIT

- 1. UNDERGROUND DETENTION AND WATER QUALITY INFRASTRUCTURE. 2. ABOVE GROUND DETENTION AND WATER QUALITY INFRASTRUCTURE.
- 3. PUBLIC STORM SEWER INFRASTRUCTURE. 4. CUT & FILL IN THE FLOODPLAIN
- 5. SINK HOLE ALTERATIONS

THE ENGINEER SHALL VISIT www.nashville.gov/stormwater/asbuilt.htm FOR SUBMITTAL REQUIREMENTS.

NOTE: ALL SOILS ARE HSG: B (McB) PER NRCS CUSTOM SOILS RESOURCE REPORT

- NOTE: IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE THAT ALL GRADING AND DRAINAGE FEATURES. BOTH TEMPORARY AND PERMENENT, ARE CONSTRUCTED SO THAT NO SEDIMENT ENTERS THE PERVIOUS PAVEMENT AREAS.
- NOTE: SEE SHEETS C2.1 AND C2.2 FOR EROSION CONTROL.
- NOTE: EXCAVATORS OR BACKHOES SHOULD WORK FROM THE SIDES TO EXCAVATE THE PERVIOUS PAVERS AREA TO ITS APPROPRIATE DESIGN DEPTH AND DIMENSIONS. EXCAVATING EQUIPMENT SHOULD HAVE SCOOPS WITH ADEQUATE REACH SO THEY DO NOT HAVE TO SIT INSIDE THE PAVEMENT FOOTPRINT.



LEGEND		
PL PROPERTY LINE ST STORM LINE ST STORM LINE ST SEWER LINE W WATER LINE G GAS LINE ST FENCE LINE OHP/T POWER OR TELE. U/G FOC U/G FIBER OPTIC 589 CONTOUR LINE IPO IRON PIN IPS IRON PIN SET FH FIRE HYDRANT PP POWER POLE CONCRETE FLOW PATH	 □ EB ○ EM ○ SS ○ CB ○ WV WM WM<td>IGHT POLE LECTRIC BOX LECTRIC METER ANITARY SEWER ATCH BASIN ATER VALVE ATER METER AS VALVE AS METER IGN ELE. MANHOLE AILBOX ENCHMARK LEAN-OUT ATURAL GAS EGULATOR STATION</td>	IGHT POLE LECTRIC BOX LECTRIC METER ANITARY SEWER ATCH BASIN ATER VALVE ATER METER AS VALVE AS METER IGN ELE. MANHOLE AILBOX ENCHMARK LEAN-OUT ATURAL GAS EGULATOR STATION

EROSION AND SEDIMENT CONTROL LEGEND:

VEGETATIVE PRACTICES



EROSION CONTROL MATTING (MA) (REFER TO SHEET C2.2, DETAIL 5) DISTURBED AREA STABILIZATION W/PERMANENT SEEDING (PS) (TYPICAL FOR ALL DISTURBED AREAS)

SOD

STRUCTURAL PRACTICES

CONSTRUCTION EXIT (CE) CE (REFER TO SHEET C2.2, DETAIL 1)

SF SILT FENCE (SF) (REFER TO SHEET C2.2, DETAILS 2 AND 3)

IP

INLET PROTECTION (IP) (REFER TO SHEET C2.2, DETAIL 4)

OP OUTLET PROTECTION (OP) (REFER TO SHEET C2.2, DETAIL 6)

STRUCTURAL PRACTICES (CONT'D)

MA NOTE:

GROUND STABILIZATION MAT (MA) SHALL BE INSTALLED ON ALL SLOPES **GREATER THAN 3:1. GROUND STABILIZATION MAT (MA)** SHALL BE INSTALLED PER GROUND STABILIZATION MAT SLOPE INSTALLATION DETAIL, SHEET C2.2, DETAIL 5.

SF NOTE:

SILT FENCING (SF) SHALL BE INSTALLED PER SILT FENCE ANCHORING DETAIL AND SILT FENCE END LAYOUT INSTALLATION DETAIL, SHEET C2.2, DETAILS 2 AND 3

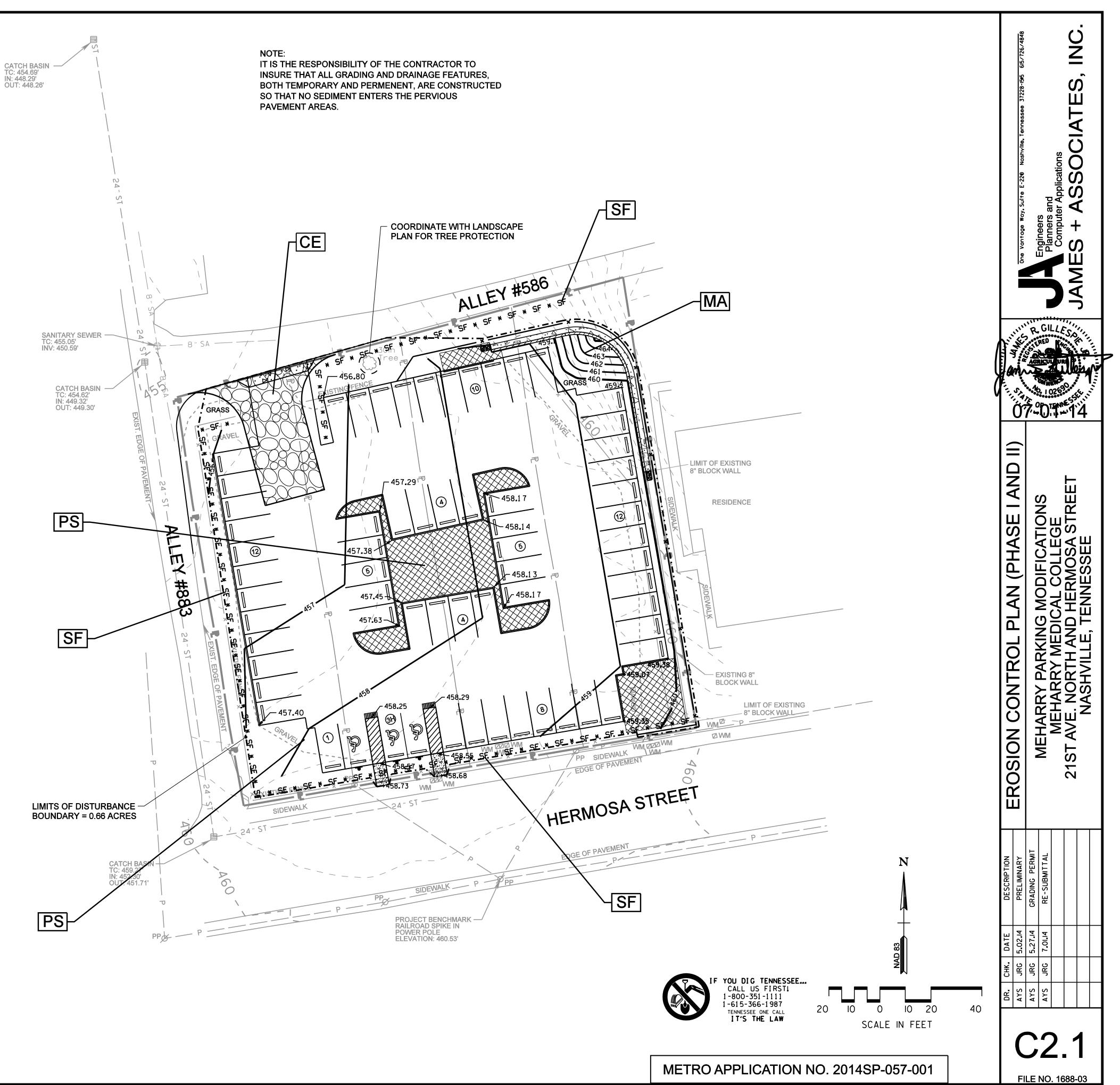
NOTE:

REFER TO SHEET C2.2 FOR THE FOLLOWING:

EROSION/SEDIMENTATION CONTROL NOTES.

NOTE: DISTURBED AREA SHALL BE LIMITED TO THE LIMITS OF DISTURBANCE BOUNDARY SHOWN ON THIS SHEET. THE SIZE OF THIS AREA TOTALS 0.66 ACRES, 28,628 S.F.

TOTAL SITE AREA: 32,234.4 SQ. FT. OR 0.74 ACRES



EROSION AND SEDIMENT CONTROL NOTES:

- 1. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO OR CONCURRENT WITH LAND-DISTURBING ACTIVITIES.
- 2. MAINTENANCE, EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
- 3. EROSION CONTROL WORK PERFORMED BY THE CONTRACTOR SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND DETAILS OF METRO DAVIDSON COUNTY.
- 4. ALL SEDIMENT CONTROLS AND CRITICAL SLOPES MUST BE STABILIZED WITHIN SEVEN CALENDAR DAYS OF DISTURBANCE. ALL OTHER DISTURBED AREAS OF THE PROJECT SITE MUST BE STABILIZED WITHIN FOURTEEN CALENDAR DAYS.
- 5. ALL POINTS OF INGRESS AND EGRESS SHALL BE PROTECTED TO MINIMIZE TRACKING OF MUD ONTO PUBLIC RIGHT-OF-WAYS AND ROADS.
- 6. ANY EARTH, GRAVEL, AND/OR OTHER MATERIAL TRACKED, SPILLED, OR WASHED ONTO ROAD OR ADJACENT PROPERTIES MUST BE IMMEDIATELY REMOVED AND DISPOSED OF IN A PROPER MANNER. FLUSHING WILL NOT BE PERMITTED. ALL MATERIAL MUST BE REMOVED BY MEANS OF SHOVELING AND SWEEPING.
- 7. SEDIMENT CONTROL DEVICES ARE TO REMAIN IN PLACE UNTIL SITE IS PERMANENTLY STABILIZED.
- 8. AFTER SITE IS PERMANENTLY STABILIZED AND BEFORE EROSION CONTROL MEASURES ARE REMOVED, THE CONTRACTOR SHALL CLEAN DEBRIS AND SILT FROM ALL STORM SEWERS, STRUCTURES AND DITCHES IN AREA OF WORK
- 9. ALL EXCAVATED MATERIAL SHALL BE PLACED ON HIGH SIDE WHEREVER POSSIBLE AND CONFINED TO AN AREA WHERE IT WILL NOT OBSTRUCT THE NORMAL FLOW OF THE DRAINAGE.
- 10. PUMPING OF SEDIMENT LADEN WATER WILL NOT BE ALLOWED UNLESS IT IS FILTERED BY WAY OF AN APPROVED SEDIMENT TRAPPING DEVICE.
- 11. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR KEEPING STRAW BALE FILTERS AND SILT FENCES CLEAR OF SEDIMENT BUILDUP DURING CONSTRUCTION. 12. CONTINUOUS INSPECTION AND MAINTENANCE OF THE SEDIMENT CONTROL
- **DEVICES IS MANDATORY.** 13. ANY SEDIMENT CONTROL DEVICES DISTURBED DURING SITE GRADING AND UTILITY CONSTRUCTION MUST BE RESTORED IMMEDIATELY.
- 14. ALL SILT BARRIERS MUST BE PLACED IMMEDIATELY FOLLOWING CLEARING. NO GRADING SHALL BE DONE.
- 15. WHEN, IN THE OPINION OF THE NPDES DEPT., THE TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL DEVICES ARE NO LONGER REQUIRED FOR THEIR INTENDED PURPOSES, THEY SHALL BE REMOVED BY THE GRADING CONTRACTOR.
- 16. EXPOSE THE SMALLEST AREAS OF SOIL FOR AS SHORT A TIME AS POSSIBLE.
- 17. KEEP DUST WITHIN TOLERABLE LIMITS BY SPRINKLING OR OTHER ACCEPTABLE MEANS.
- 18. USE TEMPORARY VEGETATION AND/OR MULCH TO PROTECT BASE AREAS FROM EROSION DURING CONSTRUCTION.
- 19. ALL CUT/FILL AREAS TO HAVE A MINIMUM OF 6-INCH DEPTH TOPSOIL COVER. AREAS DRESSED WITH TOPSOIL WILL RECEIVE 12 POUNDS PER 1000 SQUARE FEET OF 6-12-12 FERTILIZER, 8 POUNDS OR MORE OF SEED PER 1000 SQUARE FEET (SEE SEED CHARTON THIS SHT.) AND A STRAW MULCH OF 70% - 80% COVERAGE (APPROXIMATELY 125 POUNDS PER 1000 SQUARE FEET) EXCEPT AS OTHERWISE DETERMINED BY PLAN.
- 20. DISTURBED AREAS ARE TO BE GRADED TO DRAIN AS INDICATED ON PLAN TO SEDIMENT BARRIERS DURING AND UPON COMPLETION OF CONSTRUCTION.
- 21. A STONE ACCESS RAMP MAY BE CONSTRUCTED AT THE SITE ENTRANCE WITH A MINIMUM WIDTH OF 24 FEET AND MINIMUM LENGTH OF 100 FEET. RAMP IS TO BE BASED WITH 8 INCHES OF ASTM D 448, SIZE NO. 1 STONE, AND MAINTAINED FHROUGHOUT CONSTRUCTION.
- 22. THE PLACING AND SPREADING OF ANY FILL MATERIAL IS TO BE STARTED AT THE LOWEST POINT AND BROUGHT UP IN HORIZONTAL LAYERS OF 8" THICKNESS. SAID FILL MATERIAL IS TO BE FREE OF SOD, ROOTS, FROZEN SOILS OR ANY OTHER DECOMPOSABLE MATERIAL. THE RELATIVE COMPACTION OF EACH LAYER SHALL NOT BE LESS THAN 98% OF STANDARD PROCTOR TEST FOR CLASS I (FILL BENEATH STRUCTURES, PARKING AREAS, AND ACCESS ROADS) FILLS AND 95% OF STANDARD PROCTOR TEST FOR CLASS II (ALL OTHER FILLS) FILLS.
- 23. IF, AT ANY TIME DURING THE CONSTRUCTION PHASE OF THIS PROJECT. THE **EROSION/SEDIMENTATION CONTROL MEASURES INSTALLED FAIL TO FUNCTION** PROPERLY, NEED MAINTENANCE OR REPAIR, OR NEED NEW REPLACEMENT IN KIND. THE CONTRACTOR WILL EFFECT SUCH ACTIONS AS ARE NEEDED TO CORRECT THE THE SITUATION AT NO ADDITIONAL COST TO THE OWNER.
- 24. UPON STABILIZATION OF THE PROJECT SITE WITH A GOOD (ACCEPTABLE) STAND OF GRASS AND/OR GROUND COVER, THE EROSION/SEDIMENTATIÓN CONTROL INSTALLATIONS WILL BE REMOVED AND THE AREA DISTURBED WILL BE SODDED AND MULCHED WITH THE SAME TREATMENT AS OTHER NEW GRASSED AREAS OF THE PROJECT. ANY AREAS THAT ARE LEFT DISTURBED FOR OVER 14 DAYS, THE CONTRACTOR SHALL STABILIZE WITH TEMPORARY SEEDING AND MULCHING, WITH THE SAME TREATMENT AS OTHER NEW GRASSED AREAS OF THE PROJECT.
- 25. THE CONTRACTOR WILL BE REQUIRED TO INSTALL THE EROSION CONTROL DEVICES PER THE PLAN, AND NOTIFY THE ENGINEER WHEN THIS HAS BEEN COMPLETED. THE ENGINEER WILL THEN VISIT THE SITE FOR FIELD OBSERVATION AND PROVIDE NOTIFICATION TO METRO DAVIDSON COUNTY REQUESTING INSPECTION. UPON ACCEPTANCE FROM METRO DAVIDSON COUNTY, THE GRADING PERMIT WILL BE OBTAINED.

SILT BARRIER ATTACHMENT NOTES:

- SILT FENCE TO BE FASTENED SECURELY EVERY 6" ALONG POST.
- HEIGHT OF THE FABRIC.

EROSION CONTROL CONSTRUCTION NOTES:

SILT BARRIER INSTALLATION

- **INSTALL SILT BARRIER AS FOLLOWS:**
- INSURE SUFFICIENT FILL MATERIAL IS AVAILABLE.
- OR PREDETERMINED PATH.
- IN THE TRENCH OR BEGINNING TO LAY ON THE GROUND.

LOCATION:

- THE LOCATION SHALL BE LOCATED TO INTERCEPT ALL SILT/WATER **RUN-OFF FROM THE SITE.**
- ÈNDS.
- FILLS THE RETENTION AREA AND FLOWS OVER THE FENCE.

SLOPE DRAINS:

OF GRASS IS ESTABLISHED.

GENERAL NOTES:

- ANY ADDITIONAL EROSION CONTROL REQUIRED BY GOVERNING CONTRACTOR, ALL EROSION CONTROL SHALL BE MAINTAINED UNTIL PERMANENT GRASSING OR FINISHED SURFACES ARE ESTABLISHED.
- PRIOR TO MOBILIZATION-TAG TREES W/OWNER.

TCP – 03 ACTIVITY: Stabilized Construction Entrance ACTIVITY: Silt Fence SILT BARRIER CONSTRUCTION NOTES: -- WOOD FENCE POST 2" (38 mm) X 2" (38 mm) MIN - ORIGINAL GRADE WHEN TWO SECTIONS OF SILT FENCE ARE JOINED TOGETHER, THEY SHALL - FILTER FABRIC BE OVERLAPPED, FOLDED AND STAPLED TO PREVENT SEDIMENT BYPASS. — 8" (200 mm) MIN, UNLESS OTHERWISI SPECIFIED BY A SOILS ENGINEER <u>section b-e</u> ACCUMULATED SEDIMENT MUST BE REMOVED WHEN IT REACHES 50% OF THE WOOD POSTS, 2"x2" HARDWOOD WITH MIN. CROSS SECTION AREA OF 3 INCHES. NSTRUCT SEDIMENT BARRIER D CHANNELIZE RUNOFF TO DIMENT TRAPPING DEVICE STEEL POST, EITHER T OR U TYPE, NOT WEIGHING LESS THAN 1 LB./L.F. TYPICAL PREFABRICATED ~~~~~~ SILT FENCE INSTALLATION SILT FENCE: PER TDOT SECTION S-B.27, AASHTO M 298, CLASS A. WIDTH AS REQUIRED TO ACCOMMODATE ANTICIPATED TRAFFI EILTER EABRIC BACKELL ~ SUPPLY WATER TO WASH WHEELS IF NECESSARY ~100' (30 m) <u>plan view</u> SECTION Figure TCP-13-1 Figure TCP-03-1 Silt Fence Anchoring Stabilized Construction Entrance Stormwater Best Management Practices nwater Best Management Practices -TCP-13-7 Temp. Construction Management Practices p. Construction Site Management Practices TCP-03-5 DIG MINIMUM 6"x6" TRENCH WHERE FENCE IS TO BE INSTALLED OR September 201 STABILIZED CONSTRUCTION SILT FENCE UNROLL SILT BARRIER BY SECTION (POLE TO POLE) ALONG TRENCH **ENTRANCE DETAIL ANCHORING DETAIL** NOT TO SCALE NOT TO SCALE DRIVE POST INTO UNDISTURBED SOIL UNTIL SUPPORT NETTING IS ACTIVITY: Brush or Rock Filters and Continuous Berms TCP - 16 **ACTIVITY:** Geotextiles - 6" (150 mm) X 6" (150 mm) ANCHOR TRENCH 8" (450 mm) for non-traffic areas (ma 2" (300 mm) for traffic areas (max) SUFFICIENT EXTENSION OF EACH FENCE SECTION SHALL BE INSTALLED (PREFERABLY UPHILL) TO INSURE RUN-OFF WILL NOT GO AROUND THE SECTION 8"-12" stone • A SERIES OF SILT FENCES MAY BE REQUIRED IF THE VOLUME OF RUN-OFF \sim • PROVIDE TEMPORARY SLOPE DRAINS AND SWALES AT TOP OF SLOPES AS REQUIRED TO PREVENT RUTTING AND MAINTAIN UNTIL PERMANENT STAND ISOMETRIC VIEW Flow TYPICAL SLOPE SOIL STABLIZATION PLAN AUTHORITIES SHALL BE THE RESPONSIBILITY OF THE GRADING NOTES: 1. SLOPE SURFACE SHALL BE FREE OF ROCKS, SOIL CLODS, STICKS AND GRASS. MATS/BLANKETS SHALL HAVE GOOD SOIL CONTACT. LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH. Figure TCP-10-2 Figure TCP-16-1 Anchoring Geotextiles on Embankment Rock Filter Construction tormwater Best Management Practices Stormwater Best Management Practices – Temp. Construction Management Practices TCP-10-9 TCP-16-Temp. Construction Management Practices February 2000 **GROUND STABILIZATION INLET PROTECTION** MAT SLOPE **ROCK FILTER RING INSTALLATION DETAIL** NOT TO SCALE NOT TO SCALE

