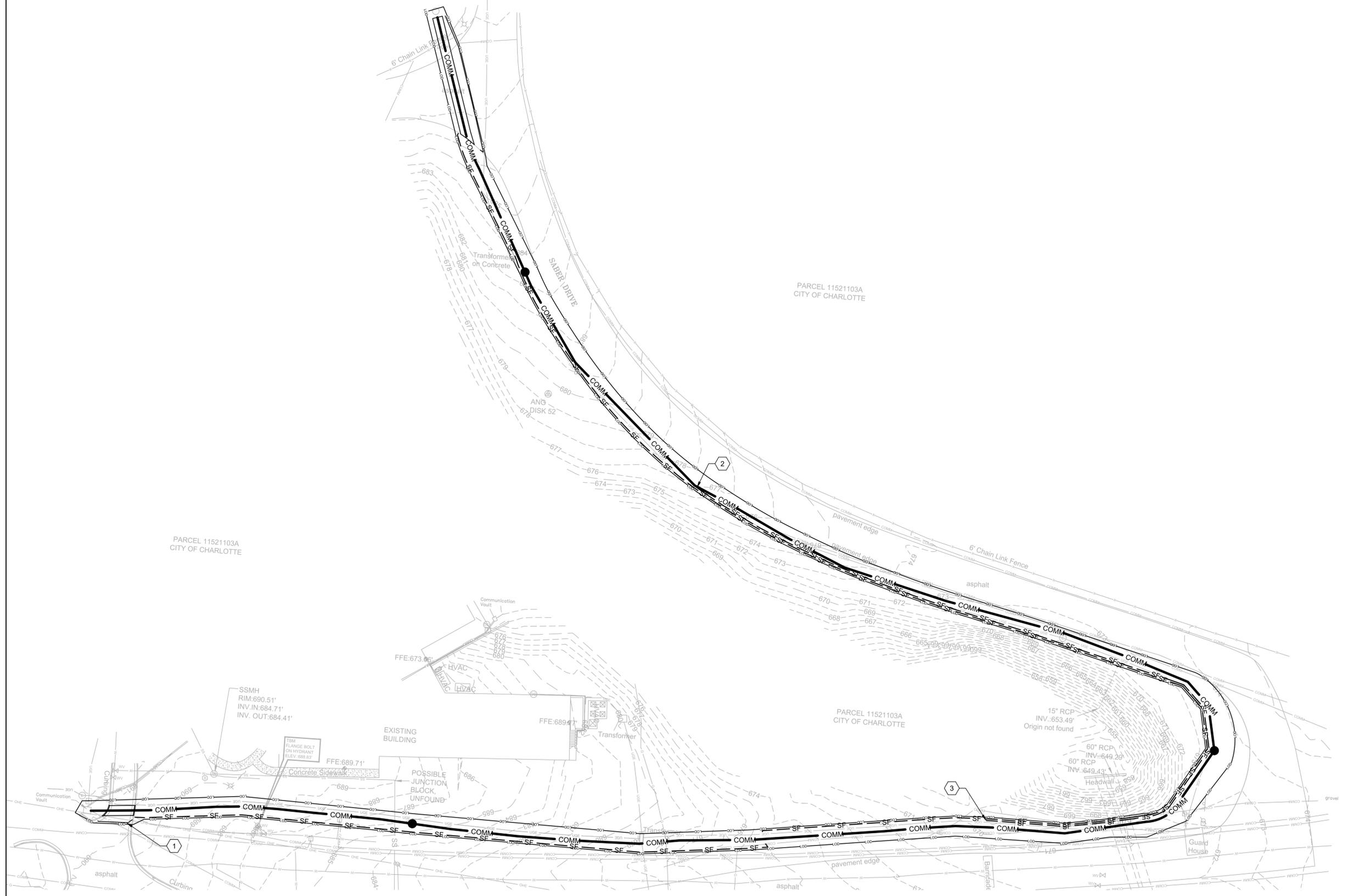


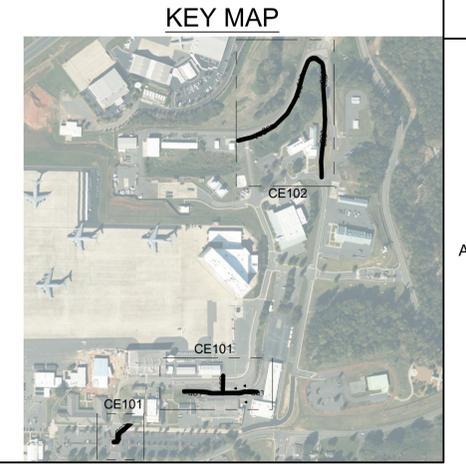




- KEY NOTES** #
1. WATTLE. SEE SHEET C-042, DETAIL 1
  2. BEGINNING OF OF DOUBLE ROW SILT FENCE. SEE SHEET C-042, DETAIL 1.
  3. END OF DOUBLE ROW SILT FENCE. SEE SHEET C-042, DETAIL 1.
- GENERAL NOTES:**
1. PLACE SPOIL ON THE HIGH SIDE OF THE TRENCH.



**PARTIAL EROSION AND SEDIMENT CONTROL PLAN AREA 3**  
1" = 30'



ISSUE	DATE	DESCRIPTION
-	MARCH 2022	B-3 DESIGN SUBMITTAL

<b>PROJECT MANAGER</b> DEREK WORLEY	
DESIGNED BY:	BRANDY CHAPMAN
DRAWN BY:	BRANDY CHAPMAN
CHECKED BY:	CHRIS TYNES
CONTRACT #:	W9133L-15-D-0004
ANG PROJECT #:	FJRP182510
HDR PROJECT #:	10226692



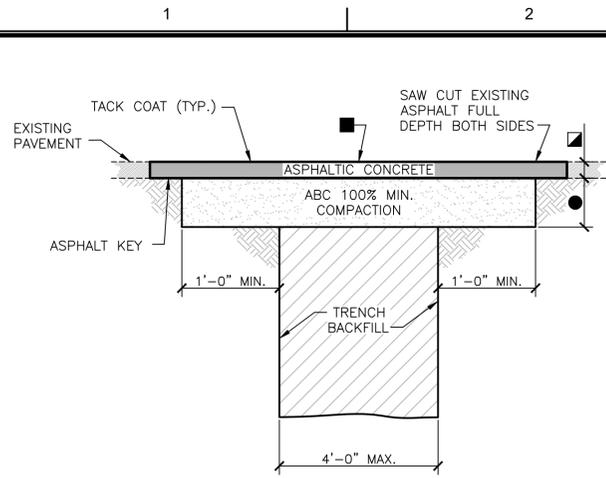
**EXTEND COMMUNICATIONS DUCT BANK**  
**NC AIR NATIONAL GUARD**  
**145TH AIRLIFT WING**  
**CHARLOTTE, NC**

**CHARLOTTE AIR NATIONAL GUARD BASE**  
**PARTIAL EROSION AND SEDIMENT CONTROL PLAN 2**

0 1" 2"

FILENAME | CE102.DWG  
SCALE | 1" = 30'

SHEET  
**CE102**

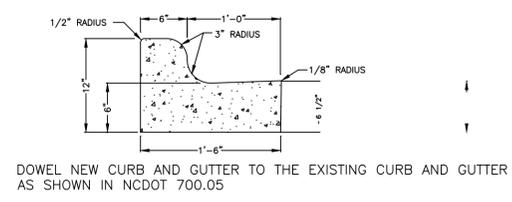


**GENERAL NOTES**

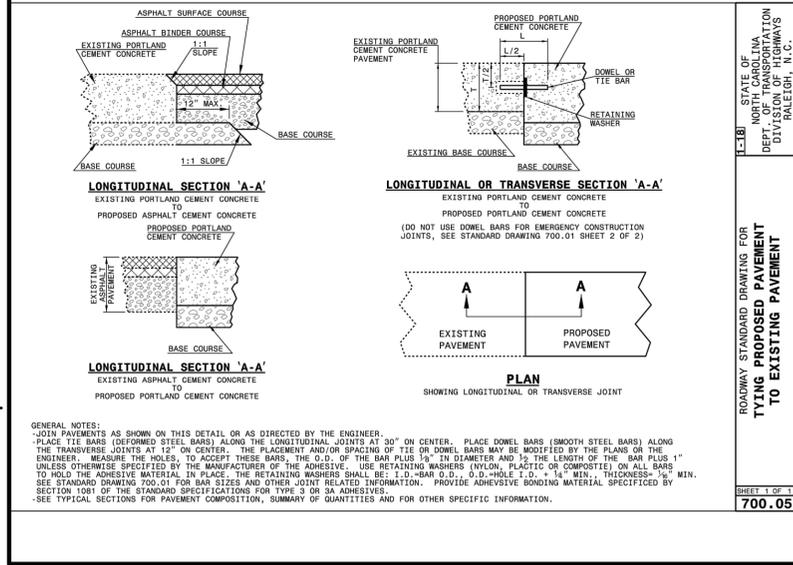
- MATERIAL AND COMPACTION REQUIREMENTS FOR PIPE BEDDING/SHADING SHALL BE IN ACCORDANCE WITH THE NCDOT SPECIFICATION 654 FROM STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES.
- TRENCH BACKFILL SHALL COMMENCE 1 FOOT ABOVE THE TOP OF PIPE.
- BACKFILL COMPACTION REQUIREMENTS SHALL BE PER NCDOT SPECIFICATIONS.
- ABC SHALL BE IN ACCORDANCE WITH THE NCDOT SPECIFICATIONS.
- PORTLAND CEMENT CONCRETE SHALL BE IN ACCORDANCE WITH THE NCDOT SPECIFICATIONS.
- ASPHALTIC TACK MATERIAL SHALL BE IN ACCORDANCE WITH THE NCDOT SPECIFICATIONS.
- ASPHALTIC CONCRETE SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE NCDOT SPECIFICATIONS.
- BITUMINOUS SURFACE TREATMENT (CHIP SEAL) SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE NCDOT SPECIFICATIONS.
- LOAD TRANSFER DOWELS FOR JOINTS TRANSVERSE TO THE ROADWAY CENTERLINE SHALL BE SMOOTH STEEL DOWELS IN ACCORDANCE WITH THE REQUIREMENTS OF NCDOT SPECIFICATIONS SECTION 1070-6. DOWELS SHALL BE SIZED AND SPACED AS FOLLOWS:

PCCP THICKNESS	DOWEL SIZE	DOWEL LENGTH	DOWEL SPACING
6"	#5	12"	18"
7"	#6	15"	15"
8"	#8	15"	12"
10"	#10	15"	12"

- DEFORMED TIE BARS SHALL BE USED IN TRENCH PATCHES LONGITUDINAL TO THE ROADWAY CENTERLINE WHEN THE TRENCH LENGTH IS GREATER THAN 50 FEET. TIE BARS SHALL BE 24 INCHES LONG. DEFORMED #4 [No. 13] BARS FOR PCCP LESS THAN 8 INCHES THICK AND #5 [No. 16] BARS IF 8 INCHES THICK OR MORE. TIE BARS SHALL BE PLACED 30 INCHES CENTER-TO-CENTER.
- HOLES SHALL BE DRILLED 1 FOOT INTO THE EXISTING SLAB FOR TIE BARS AND 7 INCHES FOR DOWELS. HOLES SHALL BE OF A DIAMETER SUFFICIENT TO ACCOMMODATE THE TIE BAR ANCHORAGE OR DOWEL CAP. TIE BARS SHALL BE ANCHORED WITH AN APPROVED HIGH VISCOSITY EPOXY.
- IF THE CONCRETE SLAB REMAINING NEXT TO A LONGITUDINAL OR TRANSVERSE JOINT IS LESS THAN 6 FEET AT ITS NARROWEST WIDTH, REMOVE AND REPLACE THE EXISTING CONCRETE TO THE JOINT.



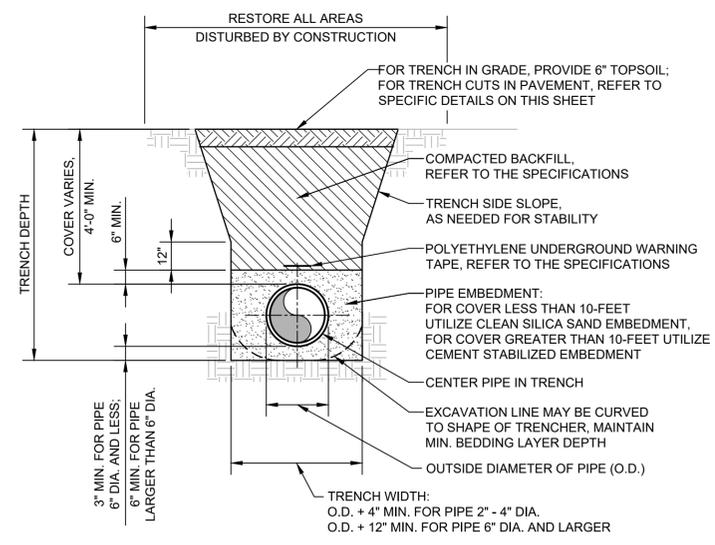
**1'-6" CONCRETE CURB AND GUTTER**  
NOT TO SCALE



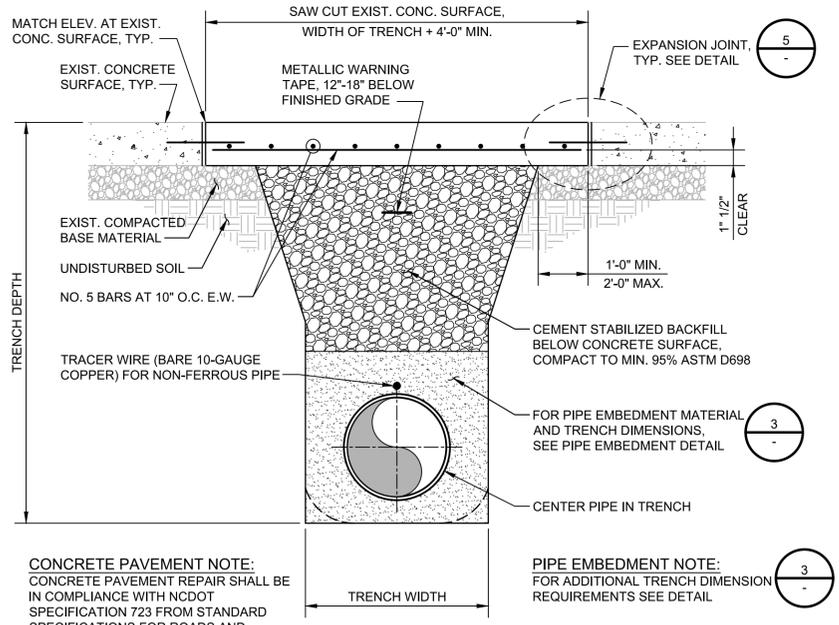
GENERAL NOTES:  
 -JOINT PAVEMENTS AS SHOWN ON THIS DETAIL OR AS DIRECTED BY THE ENGINEER.  
 -PLACE TIE BARS (DEFORMED STEEL BARS) ALONG THE LONGITUDINAL JOINTS AT 30" ON CENTER. PLACE DOWEL BARS (SMOOTH STEEL BARS) ALONG THE TRANSVERSE JOINTS AT 12" ON CENTER. THE PLACEMENT AND/OR SPACING OF TIE OR DOWEL BARS MAY BE MODIFIED BY THE PLANS OR THE ENGINEER. MEASURE THE HOLES TO ACCEPT THESE BARS, THE O.D. OF THE BAR PLUS 1/8" IN DIAMETER AND 1/2" THE LENGTH OF THE BAR PLUS 1" UNLESS OTHERWISE SPECIFIED BY THE MANUFACTURER OF THE ADHESIVE. USE RETAINING WASHERS (NYLON, PLASTIC OR COMPOSITE) ON ALL BARS TO HOLD THE ADHESIVE MATERIAL IN PLACE. THE RETAINING WASHERS SHALL BE 1/2" BAR O.D., O.D. HOLE 1/2" + 1/16" MIN., THICKNESS 1/8" MIN. SEE STANDARD DRAWING 700.01 FOR BAR SIZES AND OTHER JOINT RELATED INFORMATION. PROVIDE ADHESIVE BONDING MATERIAL SPECIFIED BY SECTION 1081 OF THE STANDARD SPECIFICATIONS FOR TYPE 3 OR 3A ADHESIVES.  
 -SEE TYPICAL SECTIONS FOR PAVEMENT COMPOSITION, SUMMARY OF QUANTITIES AND FOR OTHER SPECIFIC INFORMATION.

STATE OF NORTH CAROLINA  
 DEPT. OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 RALEIGH, N.C.  
 ROADWAY STANDARD DRAWING FOR  
 TYPING PROPOSED PAVEMENT  
 TO EXISTING PAVEMENT  
 SHEET 1 OF 1  
**700.05**

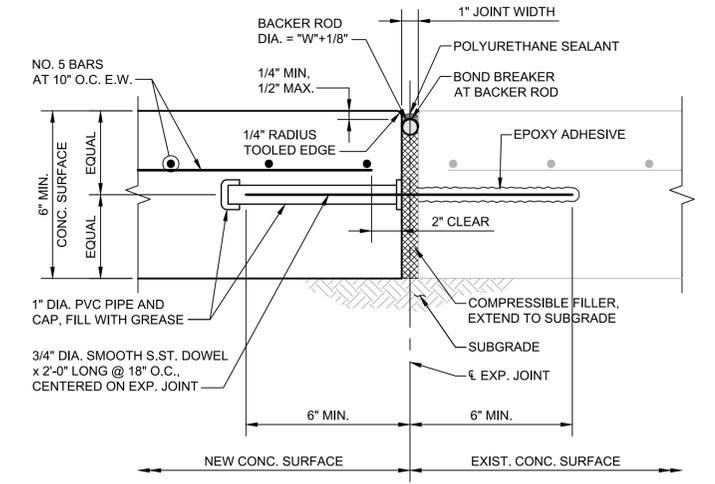
**1 TYPE 1 UTILITY TRENCH PATCH**  
NOT TO SCALE



**3 TYPICAL PIPE EMBEDMENT DETAIL**  
NOT TO SCALE



**4 CONCRETE SURFACE TRENCH AND REPAIR DETAIL**  
NOT TO SCALE



**5 CONCRETE EXPANSION JOINT (EJ) DETAIL**  
NOT TO SCALE



ISSUE	DATE	DESCRIPTION
-	MARCH 2022	B-3 DESIGN SUBMITTAL

PROJECT MANAGER	DEREK WORLEY
DESIGNED BY:	BRANDY CHAPMAN
DRAWN BY:	BRANDY CHAPMAN
CHECKED BY:	CHRIS TYNES
CONTRACT #:	W9133L-15-D-0004
ANG PROJECT #:	FJRP182510
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**EXTEND COMMUNICATIONS DUCT BANK**  
**NC AIR NATIONAL GUARD 145TH AIRLIFT WING CHARLOTTE, NC**

**CHARLOTTE AIR NATIONAL GUARD BASE**  
**CIVIL SITE DETAILS**  
 FILENAME C-030.DWG  
 SCALE AS NOTED  
 SHEET **C-030**

GENERAL EROSION CONTROL NOTES

- THE CONTRACTOR SHALL INSTALL ALL EROSION AND SEDIMENTATION CONTROL MEASURES AND DEVICES NECESSARY TO COMPLY WITH THE STANDARDS AND SPECIFICATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY (NC DEQ) AND APPLICABLE STATE AND LOCAL LAWS AND ORDINANCES, AND PREVENT STANDING WATER WITHIN PROJECT LIMITS, UNLESS OTHERWISE DIRECTED.
- INSTALL CONSTRUCTION ENTRANCES AND ACCESS ROADS IN LOCATIONS SHOWN, IN ACCORDANCE WITH STATE STANDARDS AND WITH MINIMAL DISTURBANCE TO SURROUNDING VEGETATION AND TREES. CONTRACTOR SHALL RECEIVE PRIOR APPROVAL FROM ENGINEER BEFORE TREE REMOVAL FOR ACCESS ROAD CONSTRUCTION. WITHIN 30 DAYS AFTER CONSTRUCTION IS COMPLETED FOR WHICH ACCESS ROAD IS USED, AND UNLESS OTHERWISE APPROVED, CONTRACTOR SHALL REMOVE ALL REMNANTS OF THE ACCESS ROADS AND RETURN AREA TO AS GOOD AS OR BETTER CONDITION. ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED BASED ON CONTRACTOR'S PRACTICES OR BY THE CONTRACTING OFFICER AND WILL BE EMPLOYED WHERE DETERMINED NECESSARY BY ACTUAL SITE CONDITIONS.
- ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE OR SITE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED.
- ALL DITCH LINES DISTURBED DURING CONSTRUCTION SHALL BE STABILIZED BY THE CONTRACTOR. ON ALL NEW OR UNDISTURBED, UNPAVED DITCHES INSTALL EROSION CONTROL MATTING (NAG SC150, SC150B OR APPROVED EQUAL) A TEMPORARY DITCH LINER OF FIBERGLASS ROVING ON THE DITCH BOTTOM AND SIDE SLOPES.
- PROVIDE SILT FENCE ADJACENT TO DITCHES AND AT THE TOE OF FILL SLOPES. ALSO, PROVIDE ADEQUATE MEASURES IN AREAS WHERE NATURAL VEGETATION DOES NOT PROVIDE A SUFFICIENT BUFFER AND AS DIRECTED BY THE ENGINEER. WHERE SILT FENCE AND TREE PROTECTION CONFLICT, STOP SILT FENCE AT TREE PROTECTION.
- PROVIDE INLET SEDIMENT FILTER AT ALL NEW STORM INLETS. INLET PROTECTION MAY BE REQUIRED AT EXISTING INLETS IN THE EVENT SEDIMENT WILL RUN DOWNSTREAM TO AN EXISTING INLET.
- PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY:
  - THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, FENCING, OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE ACTIVITY SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO LAND DISTURBANCE SHALL OCCUR OUTSIDE THE APPROVED LIMITS INDICATED ON THE APPROVED PLANS.
  - ALL TREE PROTECTION FENCING SHALL BE INSTALLED, INSPECTED AND APPROVED BY THE INSPECTOR. TREES WITHIN THE PROTECTION AREAS MAY ONLY BE REMOVED WITH APPROVAL BY THE INSPECTOR.
- COMPLY WITH THE FOLLOWING CONSTRUCTION SEQUENCE FOR EACH CONSTRUCTION PHASE:
  - GRUBBING SHALL BE PERFORMED DURING PREDICTED PERIODS OF DRY WEATHER.
  - EROSION CONTROL DEVICES AND STORMWATER MANAGEMENT DEVICES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION AND WITHIN 24 HOURS OF GRUBBING. THIS MAY REQUIRE GRUBBING IN STAGES TO ENSURE EROSION CONTROL MEASURES ARE PUT IN PLACE PRIOR TO RAIN EVENT. THE LOCATION DEVICES OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL IMMEDIATELY BE REPORTED TO THE ENGINEER.
  - SILT FENCE SHALL BE INSTALLED WITHIN 24 HOURS OF GRUBBING ALL PERIMETERS. THE CONTRACTOR SHALL REMOVE ACCUMULATED SILT WHEN THE SILT IS WITHIN 12" OF THE TOP OF THE SILT FENCE UTILIZED FOR EROSION CONTROL.
- THE CONSTRUCTION OF THE SITE WILL COMMENCE WITH INSTALLATION OF EROSION CONTROL MEASURES SUFFICIENT TO CONTROL SEDIMENT DEPOSITS AND EROSION. ALL SEDIMENT CONTROL WILL BE MAINTAINED UNTIL ALL UPSTREAM GROUND WITHIN THE CONSTRUCTION AREA HAS BEEN COMPLETELY STABILIZED WITH PERMANENT VEGETATION.
- FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB SITE UNTIL SUCH MEASURES ARE CORRECTED TO NORTH CAROLINA EROSION AND SEDIMENT CONTROL REGULATIONS.
- A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE WHENEVER LAND DISTURBANCE ACTIVITY IS IN PROGRESS.
- ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED DAILY AND ANY DEFICIENCIES NOTED WILL BE CORRECTED BY THE END OF EACH DAY. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION.
- ON-SITE STOCKPILING OF SOIL IS ALLOWED WITHIN THE LIMITS OF DISTURBANCE SUBJECT TO PLACING APPROPRIATE EROSION CONTROL DEVICES TO PREVENT SOIL LOSS DURING RAIN EVENTS. LOCATIONS SHALL BE PRE-APPROVED BY THE INSPECTOR.
- GROUND STABILIZATION SHALL BE ACHIEVED CONSISTENT WITH NCDEQ GENERAL PERMIT NCG01000 EFFECTIVE AS OF AUGUST 2, 2011. WHERE LAND DISTURBING ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, ALL DISTURBED AREAS SHALL BE PROVIDED WITH TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER WITHIN 14 CALENDAR DAYS FROM THE LAST LAND DISTURBING ACTIVITY EXCEPT FOR ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3:1 WHICH SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER WITHIN 7 CALENDAR DAYS FROM THE LAND DISTURBING ACTIVITY. THE CONTRACTOR SHALL REFER TO GENERAL PERMIT NCG01000 FOR SPECIFIC CONDITIONS, EXEMPTIONS, AND DEFINITIONS FOR MEETING THESE STABILIZATION REQUIREMENTS. SEE TABLE 1.
- SITE DISTURBED AREA = 0.84 ACRES.
- PROVIDE NOTIFICATION TO ALL AFFECTED PROPERTY OWNERS PRIOR TO CONSTRUCTION, AS APPLICABLE.
- EFFECTIVE OCTOBER 1, 2010, PERSONS RESPONSIBLE FOR LAND DISTURBING ACTIVITIES MUST INSPECT THE SEDIMENT AND EROSION CONTROL MEASURES ON A PROJECT AFTER EACH PHASE OF THE PROJECT TO MAKE SURE THAT THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN IS BEING FOLLOWED. SELF-INSPECTION REPORTS ARE REQUIRED. A SAMPLE SELF-INSPECTION REPORT AS WELL AS DETAILS OF THE SELF-INSPECTION PROGRAM CAN BE FOUND ON THE LAND QUALITY WEB SITE: <http://deq.nc.gov/about/divisions/energy-mineral-land-resources/erosion-sediment-control/forms>.
- ANY OFF-SITE BORROW OR WASTE REQUIRED FOR THIS PROJECT MUST COME FROM AN APPROVED EROSION CONTROL SITE PLAN REGULATED UNDER THE MINING ACT OF 1971 OR A LANDFILL REGULATED BY THE DIVISION OF SOLID WASTE MANAGEMENT. DEBRIS FROM DEMOLITION ACTIVITIES SHOULD BE DISPOSED OF AT AN APPROVED FACILITY.

EROSION MAINTENANCE REQUIREMENTS

- SEDIMENT FENCE (SILT FENCE):
  - INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
  - SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.
  - REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE.
  - TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEAN OUT.
  - REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE. STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
- SEDIMENT TUBES:
  - INSPECT CHANNELS FOR DAMAGE AFTER EACH RUNOFF EVENT.
  - ANTICIPATE SUBMERGENCE AND DEPOSITION ABOVE THE WATTLE AND EROSION FROM HIGH FLOWS AROUND THE EDGES OF THE WATTLE. CORRECT ALL DAMAGE IMMEDIATELY. IF SIGNIFICANT EROSION OCCURS BETWEEN WATTLES, INSTALL A PROTECTIVE RIPRAP LINER IN THAT PORTION OF THE CHANNEL.
  - REMOVE SEDIMENT ACCUMULATED BEHIND THE WATTLES AS NEEDED TO PREVENT DAMAGE TO CHANNEL VEGETATION. ALLOW THE CHANNEL TO DRAIN THROUGH THE STRAW WATTLE AND PREVENT LARGE FLOWS FROM CARRYING SEDIMENT OVER THE WATTLE.

- TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT:
  - INSPECT ON LEAVING THE CONSTRUCTION SITE. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 2-INCH STONE. AFTER EACH RAINFALL, INSPECT ANY STRUCTURE USED TO TRAP SEDIMENT AND CLEAN IT OUT AS NECESSARY. IMMEDIATELY REMOVE ALL OBJECTIONABLE MATERIALS SPILLED, WASHED, OR TRACKED ONTO PUBLIC ROADWAYS.
- ROCK OUTLET PROTECTION:
  - INSPECT STONE ARRANGEMENT WEEKLY AND AFTER EVERY RAINFALL EVENT.
  - MAINTAIN SPECIFIED DIMENSIONS AND REMOVE SEDIMENT BUILDUP WHEN THE SEDIMENT LEVEL IS 1/2 THE HEIGHT OF THE ROCKS.
- INLET PROTECTION:
  - INSPECT STONE ARRANGEMENT WEEKLY AND AFTER EVERY RAINFALL EVENT.
  - REPLACE STONE AS NEEDED TO MAINTAIN SPECIFIED DIMENSIONS
  - REMOVE SEDIMENT BUILDUP WHEN THE SEDIMENT LEVEL IS 1/2 THE HEIGHT OF THE ROCKS. TAKE ARE NOT TO DAMAGE OR UNDERCUT THE WIRE MESH DURING SEDIMENT REMOVAL.
- TEMPORARY DIVERSIONS:
  - INSPECT WEEKLY AND, AFTER EVERY RAINFALL, REMOVE SEDIMENT FROM THE FLOW AREA AND REPAIR THE DIVERSION RIDGES. ALSO CHECK AND MAINTAIN OUTLETS.
  - WHEN THE PROTECTED AREA IS PERMANENTLY STABILIZED, REMOVE THE RIDGES AND THE CHANNEL TO BLEND WITH THE NATURAL GROUND LEVEL AND APPROPRIATELY STABILIZE SITE.
- CHECK DAM:
  - INSPECT CHECK DAMS AND CHANNELS FOR DAMAGE AFTER EACH RUNOFF EVENT.
  - ANTICIPATE SUBMERGENCE AND DEPOSITION ABOVE THE CHECK DAM AND EROSION FROM HIGH FLOWS AROUND THE EDGES OF THE DAM. CORRECT ALL DAMAGE IMMEDIATELY. IF SIGNIFICANT EROSION OCCURS BETWEEN DAMS, INSTALL A PROTECTIVE RIPRAP LINER IN THAT PORTION OF THE CHANNEL.
  - REMOVE SEDIMENT ACCUMULATED BEHIND THE DAMS AS NEEDED TO PREVENT DAMAGE TO CHANNEL VEGETATION. ALLOW THE CHANNEL TO DRAIN THROUGH THE STONE CHECK DAM AND PREVENT LARGE FLOWS FROM CARRYING SEDIMENT OVER THE DAM. ADD STONES TO DAMS AS NEEDED TO MAINTAIN DESIGN HEIGHT AND CROSS SECTION.

TEMPORARY NON LAWN SEEDING MEASURES

A. GENERAL:

- AFTER CONSTRUCTION IS COMPLETE IN ANY AREA OR PHASE OF THE PROJECT, THE DISTURBED AREAS SHALL RECEIVE A PERMANENT GROUND COVER. SEEDING AND MULCHING SHALL BE PERFORMED IMMEDIATELY BEHIND CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE PERMANENT SEEDING IN ALL DISTURBED AREAS AS INDICATED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL ADAPT PERMANENT SEEDING OPERATIONS TO PROTECT AND TO ACCOMMODATE ANY TEMPORARY SEEDING AND SOIL AND EROSION CONTROL MEASURES THAT MAY ALREADY BE IN PLACE DURING THE WORK PERIOD.
- WHEN SEEDING MUST TAKE PLACE OUT OF SEASON FOR PERMANENT GRASS THE APPROPRIATE TEMPORARY SEEDING SHALL BE DONE AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERMANENT SEEDING AS SPECIFIED IN SEASON AT NO ADDITIONAL COST TO OWNER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR TURF MAINTENANCE THROUGH SUBSTANTIAL COMPLETION. SLOPES MUST BE AT 90% COVERAGE AT SUBSTANTIAL COMPLETION REVIEW TO BE ACCEPTED. IF NOT AT 90% COVERAGE, SUBSTANTIAL COMPLETION WILL BE DELAYED UNTIL 90% COVERAGE IS ACHIEVED AND/OR UNTIL THE FOLLOWING GROWING SEASON.

B. SITE PREPARATION AND INSTALLATION:

- GROUND COVER: ALL DISTURBED AREAS SHALL BE DRESSED TO A DEPTH OF SIX (6) INCHES. THE TOP THREE (3) INCHES SHALL BE PULVERIZED TO PROVIDE A UNIFORM SEEDBED. RAKE OR HARROW THE SITE TO ESTABLISH A SMOOTH AND LEVEL FINAL GRADE. SOIL PARTICLES SHOULD BE NO LARGER THAN MARBLE SIZE, AND PEA GRAVEL SIZE IS EVEN BETTER. AGRICULTURAL LIME SHALL BE APPLIED AT THE RATE OF 1 TONS/ACRE IMMEDIATELY BEFORE PLOWING. GRASS SEED SHALL BE APPLIED AT THE RATES OUTLINED IN TABLES 2A AND 2B.
- 10-10-10 FERTILIZER SHALL BE APPLIED TO ALL DISTURBED AREAS AT A RATE OF 750 LBS/ACRE. MULCHING SHALL CONSIST OF SMALL GRAIN STRAW APPLIED AT A RATE OF 2 TONS/ACRE. MULCHED AREAS SHALL BE TACKED WITH ASPHALT OR OTHER APPROVED METHOD SUFFICIENT TO HOLD THE STRAW IN PLACE, AT A RATE OF 150 TO 200 GALLONS PER TON OF STRAW.
- SOME AREAS MAY REQUIRE TEMPORARY SEEDING DUE TO AN INTERRUPTION OF WORK OR SEASONAL RESTRICTIONS AS SPECIFIED IN THE PERMANENT SEEDING SCHEDULE, OR A COMBINATION THEREOF. THESE AREAS SHALL BE SEEDING IN ACCORDANCE WITH THE PERMANENT SEEDING SCHEDULE. IF TEMPORARY SEEDING IS REQUIRED DUE TO CONTRACTOR DELAYS, THERE WILL BE NO COMPENSATION FOR THE TEMPORARY SEEDING. TEMPORARY SEEDING SHALL BE PERFORMED ONLY AT THE DIRECTION OF THE ENGINEER OR INSPECTOR.

C. CLEANUP AND INSPECTION:

- UPON COMPLETION OF WORK, THE CONTRACTOR SHALL REMOVE FROM THE SITE ALL EQUIPMENT AND OTHER ARTICLES USED. ALL EXCESS SOIL, STONE, AND DEBRIS SHALL BE REMOVED AND LEGALLY DISPOSED OF AT NO ADDITIONAL COST TO THE OWNER. ALL WORK AREAS SHALL BE LEFT IN A CLEAN AND NEAT CONDITION. ALL DAMAGE TO EXISTING CONSTRUCTION CAUSED BY LANDSCAPING OPERATIONS SHALL BE REPAIRED TO THE SATISFACTION OF THE TOWN AT THE CONTRACTOR'S EXPENSE.
- SEEDED AREAS SHALL BE PROTECTED AND REPLANTED AS NECESSARY TO ESTABLISH A UNIFORM STAND OF SPECIFIED GRASS. SCATTERED BARE SPOTS, NONE OF WHICH SHALL BE LARGER THAN ONE (1) SQUARE FOOT, WILL BE ALLOWED UP TO A MAXIMUM OF 3% OF THE SEEDED AREA FOR EACH PROPERTY. WHEN SEEDED AREAS ARE READY FOR INSPECTION, THE MAINTAINED TURF AREAS SHALL BE NEATLY MOVED TO THE UNIFORM HEIGHT OF APPROXIMATELY TWO AND ONE-HALF (2.5) INCHES. THE LAWNS SHALL BE CONSIDERED ESTABLISHED ONLY WHEN THE SPECIFIED GRASS IS VIGOROUS AND GROWING WELL IN ADDITION TO MEETING THE OTHER REQUIREMENTS SPECIFIED.
- AN INSPECTION OF THE COMPLETED SEEDING SHALL BE MADE AT THE CONCLUSION OF THE LANDSCAPE WORK UPON WRITTEN NOTICE REQUESTING SUCH INSPECTION SUBMITTED BY THE CONTRACTOR TO THE ENGINEER, AT LEAST TEN (10) DAYS PRIOR TO THE ANTICIPATED DATE OF INSPECTION.
- A FINAL INSPECTION SHALL BE PERFORMED WHEN A SATISFACTORY STAND OF SEEDED TURF GRASS HAS BEEN PRODUCED, UPON WRITTEN NOTICE REQUESTING SUCH INSPECTION SUBMITTED BY THE CONTRACTOR TO THE ENGINEER, AT LEAST TEN (10) DAYS PRIOR TO THE ANTICIPATED DATE OF INSPECTION. IF A SATISFACTORY STAND OF TURF HAS NOT BEEN PRODUCED AT THE TIME OF FINAL INSPECTION, NECESSARY REPAIRS SHALL BE PERFORMED IN CONFORMANCE WITH THE REQUIREMENTS OF THIS SECTION. UPON COMPLETION OF THESE REPAIRS, THE SEEDED GRASS SHALL BE REINSPECTED UPON WRITTEN NOTICE AS ABOVE.

TABLE 2A SHOULDERS, SIDE DITCHES, SLOPES (For Slopes Between 2:1 and 3:1)		
Date	Type	Planting Rate
Mar 1 - June 1	Sericea Lespedeza (scarified) and Add Tall Fescue or ***Tall Fescue and ***Browtop Millet or ***Sorghum-Sudan Hybrids	50 lbs./acre 120 lbs./acre 25 lbs./acre 120 lbs./acre 35 lbs./acre 30 lbs./acre
Mar 1 - June 30	Add Hulled Common Bermudagrass	25 lbs./acre
June 1 - Sept 1	Tall Fescue and ***Browtop Millet or ***Sorghum-Sudan Hybrids	120 lbs./acre 35 lbs./acre 30 lbs./acre
Sept 1 - Mar 1	Sericea Lespedeza (unhulled/unscarified) and Tall Fescue	70 lbs./acre 120 lbs./acre
Nov 1 - Mar 1	Add Abruzzi Rye	25 lbs./acre

TABLE 2B SHOULDERS, SIDE DITCHES, SLOPES (For Slopes 3:1 and Flatter)		
Date	Type	Planting Rate
Aug 15 - Nov 1	Tall Fescue	300 lbs./acre
Nov 1 - Mar 1	Tall Fescue and Abruzzi Rye	300 lbs./acre
Mar 1 - Apr 15	Tall Fescue	300 lbs./acre
Apr 15 - June 30	Hulled Common Bermudagrass	25 lbs./acre
July 15 - Aug 15	Tall Fescue and ***Browtop Millet or ***Sorghum-Sudan Hybrids	35 lbs./acre

EROSION CONTROL CONSTRUCTION SEQUENCE

- OBTAIN AND MAINTAIN ON SITE THE LAND-DISTURBING PERMIT FROM NCDEQ FOR THE 0.26 ACRES OF DISTURBANCE.
- CALL NCDEQ WILMINGTON REGIONAL OFFICE AT 910-796-7215 TO SCHEDULE A PRE-CONSTRUCTION MEETING AT LEAST 48 HOURS PRIOR TO PROJECT ACTIVATION.
- PRIOR TO COMMENCING ANY LAND DISTURBANCE ACTIVITY, CLEARLY AND ACCURATELY DEMARCATÉ THE LIMITS OF THE LAND DISTURBANCE WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS.
- INSTALL STABILIZED CONSTRUCTION ENTRANCE AND SILT FENCE PRIOR TO ANY LAND DISTURBANCE ACTIVITIES (CLEARING, GRADING, GRUBBING, OR EXCAVATION). CLEAR ONLY AS NECESSARY TO INSTALL THE SKIMMER BASIN AS SHOWN ON THE PHASE I EROSION CONTROL PLANS.
- CONTACT THE INSPECTOR (910-796-7215) FOR AN ON-SITE INSPECTION OF THE INSTALLED MEASURES. WHEN APPROVED, INSTALL REMAINING EROSION CONTROL DEVICES (TEMPORARY DIVERSION DITCHES, STRAW WATTLES, ETC.).
- INSPECT ALL EROSION CONTROL DEVICES AT WEEKLY INTERVALS AND AFTER EVERY RAINFALL EVENT EXCEEDING 1/2" TO VERIFY THAT THEY ARE FUNCTIONING PROPERLY. ANY ACCUMULATED SEDIMENT SHALL BE REMOVED AND PLACED IN A DESIGNATED SPOIL DISPOSAL AREA APPROVED BY THE INSPECTOR. CONDUCT PERIODIC INSPECTIONS OF ALL EROSION AND SEDIMENTATION CONTROLS AND MAKE ANY REPAIRS OR MODIFICATIONS NECESSARY TO ASSURE CONTINUED EFFECTIVE OPERATION OF EACH DEVICE.
- BEGIN REMAINDER OF CLEARING, GRUBBING, AND GRADING OF SITE.
- STABILIZE SITE PER EROSION CONTROL NOTES AND SEEDING SCHEDULE AS AREAS ARE BROUGHT TO FINISHED GRADE WITH VEGETATION, PAVING, DITCH LININGS, ETC. PER GENERAL PERMIT NCG010000. ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3:1 SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 7 CALENDAR DAYS FROM THE LAST LAND DISTURBING ACTIVITY. ALL OTHER DISTURBED AREAS SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN EVENT WITHIN 14 CALENDAR DAYS FROM THE LAST LAND DISTURBING ACTIVITY.
- THE STORM DRAINAGE NETWORK MUST BE CONSTRUCTED TO DISCHARGE INTO THE SKIMMER BASIN AS INDICATED ON THE PHASE I EROSION CONTROL PLANS. ONCE STORM NETWORK IS COMPLETELY CONSTRUCTED, ALL INLETS ARE PROPERLY PROTECTED, AND VEGETATION HAS BEEN ESTABLISHED ON A MAJORITY OF THE SITE, THE SKIMMER BASIN CAN BE CLEANED OF ACCUMULATED SEDIMENT AND SODDED. PIPES INTERCONNECTING THE FORMER SKIMMER BASIN TO THE SAND FILTER CAN BE INSTALLED AS SHOWN ON SHEET CG103 WHEN DEEMED APPROPRIATE BY THE CONTRACTING OFFICER.
- ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION.
- CONTACT THE INSPECTOR (910-796-7215) FOR AN INSPECTION WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE FULLY PLANTED AND STABILIZED.
- WHEN FINAL SITE STABILIZATION IS APPROVED, REMOVE ALL EROSION CONTROL DEVICES AND STABILIZE THESE AND ANY RESULTING BARE AREAS.
- CONTACT THE INSPECTOR (910-796-7215) FOR A FINAL SITE INSPECTION WHEN VEGETATION HAS BECOME ESTABLISHED.

TABLE 1 NCDEQ Stabilization Timeframes		
Site Area Description	Stabilization	Timeframe Exceptions
Perimeter Dikes, swales, ditches and slopes	7 days	None
High Quality Water (HQW) Zones	7 days	None
Slopes Steeper than 3:1	7 days	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
Slopes 3:1 or Flatter	14 days	7 days for slopes greater than 50' in length
All other areas with slopes flatter than 4:1	14 days	None, except for perimeters and HQW zones

FOR LATE WINTER AND EARLY SPRING:

SOIL AMENDMENTS: FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER

SEEDING MIXTURE: RYE (GRAN) - 120 LB/ACRE ANNUAL LESPEDEZA (KOBÉ) - 50 LB/ACRE (OMIT ANNUAL LESPEDEZA WHEN DURATION OF TEMPORARY COVER IS NOT TO EXTEND BEYOND JUNE)

MULCH: APPLY 4,000 LB/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL

MAINTENANCE: REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, FERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE

SEEDING DATES: JAN. 1 - MAY 1

FOR SUMMER:

SOIL AMENDMENTS: FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER

SEEDING MIXTURE: GERMAN MILLET - 40 LB/ACRE (A SMALL-STEMMED SUDANGRASS MAY BE SUBSTITUTED AT A RATE OF 50 LB/ACRE)

MULCH: APPLY 4,000 LB/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL

MAINTENANCE: REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, FERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE

SEEDING DATES: MAY 1 - AUG. 15

FOR FALL:

SOIL AMENDMENTS: FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 1,000 LB/ACRE 10-10-10 FERTILIZER

SEEDING MIXTURE: RYE (GRAN) - 120 LB/ACRE

MULCH: APPLY 4,000 LB/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL

SEEDING DATES: AUG. 15 - DEC 30

MAINTENANCE: REPAIR AND REFERTILIZE DAMAGED AREAS IMMEDIATELY. TOPDRESS WITH 50 LB/ACRE OF NITROGEN IN MARCH. IF IT IS NECESSARY TO EXTEND TEMPORARY COVER BEYOND JUNE 15, OVERSEED WITH 50 LB/ACRE KOBÉ LESPEDEZA IN LATE FEBRUARY OR EARLY MARCH.

FOR ADDITIONAL INFORMATION, REFER TO NCDEQ EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL (ESCPDM), SECTION 6.10. FOR PERMANENT SEEDING SPECIFICATIONS, INCLUDING SEED BED PREP, SEASONAL LIMITATIONS FOR SEEDING OPERATIONS, THE KINDS OF GRADES OF FERTILIZERS, THE KINDS OF SEED, AND THE RATES OF APPLICATION OF LIMESTONE, FERTILIZER, AND SEED, REFER TO NCDEQ ESOPDM SECTION 6.11 AND THE CHARLOTTE LANDSCAPE CONSTRUCTION STANDARDS SECTION 04200 SEEDING AND SODDING OF TURFGRASS.



CITY OF CHARLOTTE  
LAND DEVELOPMENT STANDARDS  
INCLUDES CHARLOTTE ETJ

TEMPORARY SEEDING SCHEDULE

STD. NO. REV.  
30.17 9

\*PERMANENT SEEDING SCHEDULE CAN BE FOUND ON C-041



ISSUE	DATE	DESCRIPTION
-	MARCH 2022	B-3 DESIGN SUBMITTAL

PROJECT MANAGER DEREK WORLEY

DESIGNED BY:	BRANDY CHAPMAN
DRAWN BY:	BRANDY CHAPMAN
CHECKED BY:	CHRIS TYNES
CONTRACT #:	W9133L-15-D-0004
ANG PROJECT #:	FJRP182510
HDR PROJECT #:	10226692



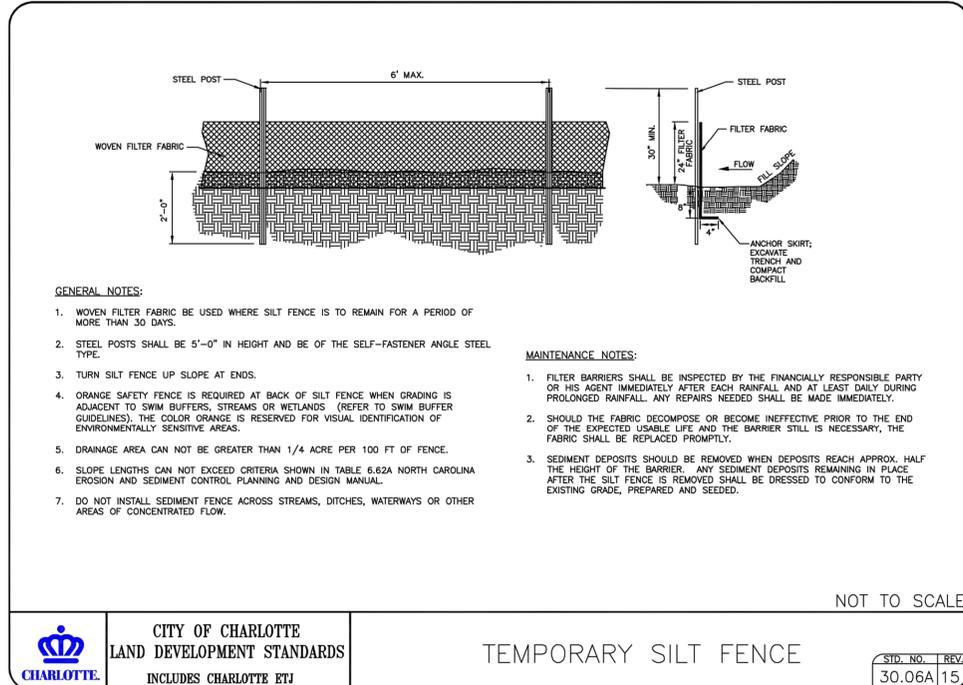
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COMMUNICATIONS DUCT  
BANK  
NC AIR NATIONAL GUARD  
145TH AIRLIFT WING  
CHARLOTTE, NC

CHARLOTTE AIR NATIONAL GUARD BASE  
CIVIL  
EROSION CONTROL NOTES



FILENAME C-040.DWG  
SCALE AS NOTED

SHEET  
C-040

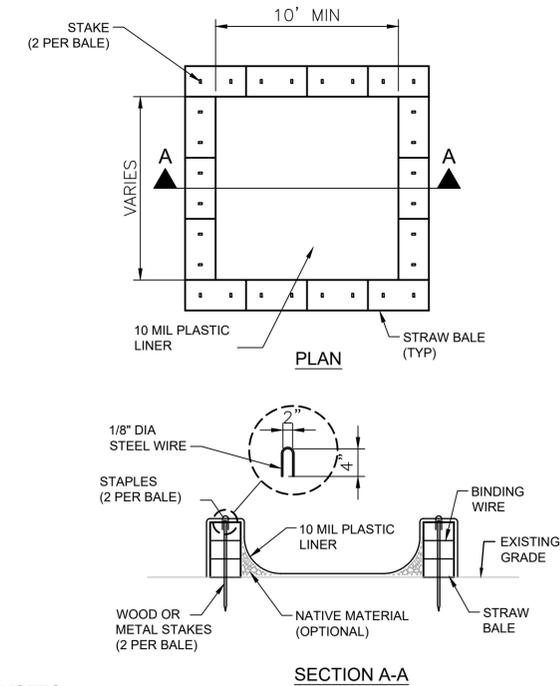


CITY OF CHARLOTTE  
LAND DEVELOPMENT STANDARDS  
INCLUDES CHARLOTTE ETJ

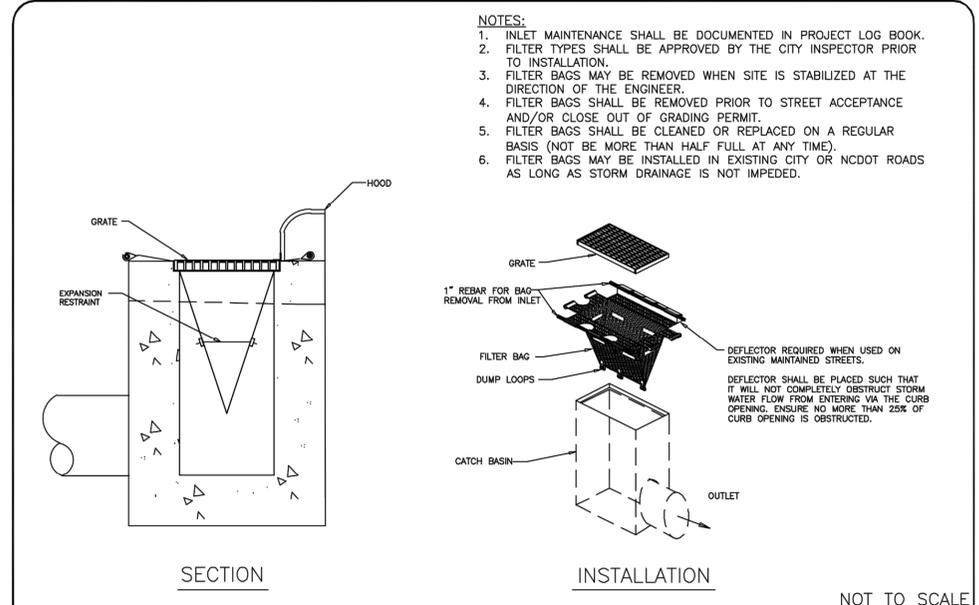
TEMPORARY SILT FENCE

STD. NO. 15  
REV. 30.06A

1 TEMPORARY SILT FENCE  
NOT TO SCALE



2 CONCRETE WASHOUT AREA  
NOT TO SCALE



CITY OF CHARLOTTE  
LAND DEVELOPMENT STANDARDS  
INCLUDES CHARLOTTE ETJ

CATCH BASIN INLET PROTECTION

STD. NO. 13  
REV. 30.15

3 CATCH BASIN INLET PROTECTION  
NOT TO SCALE

PERMANENT SEEDING SCHEDULE

HERBACEOUS PLANTS-Seedling recommendations for immediate stabilization/nurse crops  
(2 to 5 weeks for development; effectiveness goal: 6 months to 1 year stabilization) Table 6.11.a

NURSE CROP SPECIES

Common Name	Botanical Name	Native / Introduced	Seeding Rates (lb/acre)	Fertilizer / Limestone	Optimal Planting Dates	Mountains	Piedmont	Coastal Plains	Sun/Shade Tolerant	Wetlands	Riparian Buffers	Invasive Yes or No	Installation / Maintenance Considerations	Other information, commentary
Rye Grass	<i>Lolium perenne</i>	I	40 lbs	By soil test	11/1 - 4/30	8/15 - 4/15			Sun	Yes	Yes	No	Must be mown to reduce competitiveness with permanent or long term vegetation	
Wheat	<i>Triticum aestivum</i>	I	30 lbs	By soil test	11/1 - 4/30	8/15 - 4/15			Sun	Yes	Yes	No	Must be mown to reduce competitiveness with permanent or long term vegetation	Not water tolerant. May be used in wetlands that are not continuously saturated.
German Millet	<i>Setaria italica</i>	I	10 lbs	By soil test	5/11 - 9/30	8/15 - 8/15			Sun	Yes	Yes	No	Crop should be cut / disc prior to planting primary or long term vegetation	Not water tolerant. May be used in wetlands that are not continuously saturated.
Browtop Millet	<i>Urochloa ramosa</i>	I	10 lbs	By soil test	6/11 - 9/30	8/15 - 8/15			Sun	Yes	Yes	No	Crop should be cut / disc prior to planting primary or long term vegetation	Not water tolerant. May be used in wetlands that are not continuously saturated.
Sudangrass (hybrids)	<i>Sorghum saccharatum</i> <i>S. bicolor</i> ssp. <i>Dummondii</i>	I	15 lbs	By soil test	NR	NR			4/15 - 8/15	Sun	No	Yes	Crop should be cut / disc prior to planting primary or long term vegetation	Use only where plants and seed can be contained and controlled.
Kobe Lespedeza	<i>Kummerowia striata</i> v. <i>indica</i>	I	10 lbs	By soil test	5/1 - 9/1	5/1 - 9/1			Sun	No	No	No	Consult qualified horticulturalist or extension agent for over-seeding with primary cover	Use in Coastal Plain
Korean Lespedeza	<i>Kummerowia stipulacea</i>	I	10 lbs	By soil test	5/1 - 9/1	5/1 - 9/1			Sun	No	No	No	Consult qualified horticulturalist or extension agent for over-seeding with primary cover	Use in Piedmont and Mountains. May become invasive

NOTES:  
1. Seeding rates are for hulled seed unless otherwise noted.  
2. Fertilizer & Limestone - rates to be applied in absence of soil tests. Recommended application rate assumes significantly disturbed site soils with little or no residual value.  
3. NR means Species not recommended for this region or application area.  
4. Invasive designation as determined by the N.C. Exotic Pest Plant Council and N.C. Native Plant Society.  
5. Sprigging is not recommended for immediate stabilization unless terrain is that heavy mulch is applied and no other immediate stabilization method is practical.



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ANG PROJECT #:	FJRP182510
HDR PROJECT #:	10226692



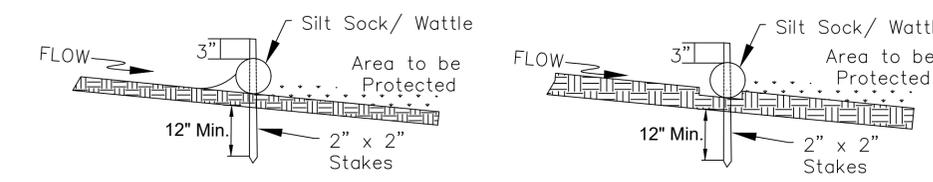
EXTEND COMMUNICATIONS DUCT BANK  
NC AIR NATIONAL GUARD  
145TH AIRLIFT WING  
CHARLOTTE, NC

CHARLOTTE AIR NATIONAL GUARD BASE  
CIVIL EROSION CONTROL DETAILS 1

0 1" 2"

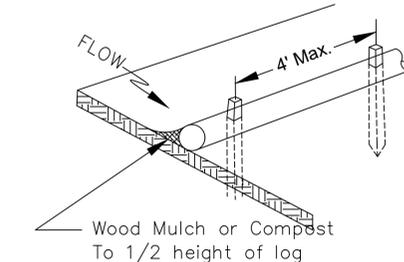
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SCALE AS NOTED

SHEET C-041



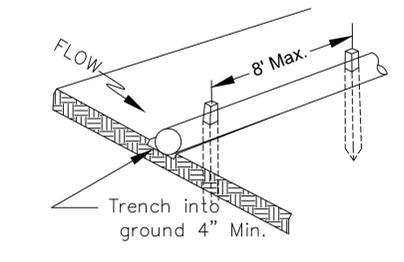
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**SECTION**



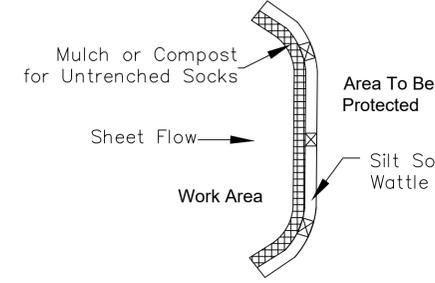
**UNTRENCHED INSTALLATION**

**ISOMETRIC VIEW**



**ENTRENCHED INSTALLATION\***

\*THIS APPLICATION MAY NOT BE USED WITH COMPOST SOCKS SMALLER THAN 12".



COMPOST SOCK INITIAL FLOW RATES					
Compost Sock Design Diameter	8 Inch (200 mm)	12 Inch (300 mm)	18 Inch (450 mm)	24 Inch (600 mm)	32 Inch (750 mm)
Maximum Slope Length (<2%)	600 Feet (183 m)	750 Feet (229 m)	1,000 Feet (305 m)	1,300 Feet (396 m)	1,650 Feet (500 m)
Hydraulic Flow Through Rate	7.5 gpm/ft (94 l/m/m)	11.3 gpm/ft (141 l/m/m)	15.0 gpm/ft (188 l/m/m)	22.5 gpm/ft (281 l/m/m)	30.0 gpm/ft (374 l/m/m)

- NOTE:**
- Other materials providing equivalent protection against erosive velocities may be substituted for use in silt socks or wattles.
  - Fill silt sock/wattle netting uniformly with compost to the desired length such that logs do not deform.
  - Silt sock/Wattle(s) should be installed parallel to and a minimum of 10 feet beyond the toe of a graded slope. Silt Sock/Wattle(s) located below flat areas should be located at the edge of the land disturbance. The ends of the silt sock/wattle(s) should be turned slightly upslope to prevent runoff from going around the end of the silt sock/wattle(s).
  - Oak or other durable hardwood stakes with a 2 inch x 2 inch cross section should be driven vertically plumb, through the center of the silt sock/wattle. Stakes should be placed at a maximum interval of 4 feet or a maximum interval of 8 feet if the silt sock/wattle is placed in a 4 inch trench.
  - In the event staking is not possible (ie. when socks/wattles are used on pavement) heavy concrete blocks shall be used behind the silt sock/wattle to hold it in place during runoff events.

- MAINTENANCE:**
- Inspect silt sock/wattle at least weekly and after each 1 inch or greater rainfall. Remove accumulated sediment and any debris as needed to allow for adequate flow.
  - Silt sock/Wattle must be replaced if clogged or torn.
  - If ponding becomes excessive, the silt sock/wattle may need to be replaced with a larger diameter or a different measure. Reinstall if damaged or dislodged.
  - Silt socks/wattles shall be inspected until land disturbance is complete and the area above the measure has been permanently stabilized.

**1**  
**SILT SOCK/WATTLE**  
NOT TO SCALE



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**EXTEND COMMUNICATIONS DUCT BANK**  
**NC AIR NATIONAL GUARD 145TH AIRLIFT WING CHARLOTTE, NC**

**CHARLOTTE AIR NATIONAL GUARD BASE**  
**CIVIL EROSION CONTROL DETAILS 2**

0 1" 2" SCALE AS NOTED

FILENAME C-042.DWG  
SCALE AS NOTED

SHEET **C-042**