ABBREVIATIONS:

N/F	NOW/FORMERLY
PID	PROPERTY IDENTIFICATION NUMBER
R/W	RIGHT-OF-WAY
HORZ. CP	HORIZONTAL CONTROL POINT
LP	LIGHTPOLE
A/C	AIR CONDITIONING UNIT
TRANS.	TRANSFORMER
EB	ELECTRIC BOX
GEN.	GENERATOR
BOL.	BOLLARD (METAL EXTERIOR W/ CONC. CENTER)
GP	NATURAL GAS WARNING POST
DI	DROP INLET
INV	INVERT (PIPE)
GI	GRATE INLET
DWCB	DOUBLE WING CATCH BASIN
SWCB	SINGLE WING CATCH BASIN

N MAGNETIC

LEGEND:

- CONCRETE
- PROPERTY LINE
- SANITARY SEWER PIPE (S)
- STORM DRAIN PIPE (SD)
- WATER LINE (W)
- AIR CONDITION/HEATING PAD (A/C)
- IRRIGATION CONTROL VALVE (ICV)
- WATER METER (WM)
- VALVE (WATER OR NATURAL GAS) (WV, GV)
- FIRE HYDRANT (FH)
- ELECTRICAL BOX/PANEL (EBOX)
- SANITARY SEWER CLEANOUT (CO)
- SANITARY SEWER MANHOLE
- STORM STRUCTURE
- TREE
- BENCHMARK
- HORIZONTAL CONTROL POINT

SURVEYOR NOTES:

1. PARCEL ID #087-15-01-008.
2. ACCORDING TO FEMA F.I.R.M. FLOOD PANEL 45003C00334E EFFECTIVE JUNE 19, 2012, THE PROPERTY DOES NOT LIE WITHIN THE 100-YEAR FLOOD LIMITS.
3. SURVEY CONDUCTED BY JOHNSON, LASCHOBER, & ASSOCIATES, P.C. ON JULY 28, 2016 USING TOPCON ES-105 TOTAL STATION.
4. BOUNDARY LINES WERE NOT LOCATED DURING THE SURVEY. NO REFERENCE PLATS WERE USED AT THE TIME OF THIS SURVEY.
5. UNDERGROUND UTILITY LOCATE WAS NOT CONDUCTED AT THE TIME OF THE SURVEY. ALL UNDERGROUND CONDUIT, PIPE AND UTILITIES ARE SHOWN AT APPROXIMATE LOCATION.
6. TREE DIAMETERS ARE ESTIMATED TO THE NEAREST INCH.
7. IRRIGATION NOT SHOWN FOR CLARITY.
8. BENCHMARK - ALL ELEVATIONS ARE BASED ON THE ASSUMED ELEVATION OF 405.00' AS MEASURED AT THE REBAR FOUND ON THE RIGHT-OF-WAY.
9. HORIZONTAL CONTROL POINTS - ALL NORTHING/EASTINGS ARE ON ASSUMED COORDINATE SYSTEM BASED ON THE FOLLOWING HORIZONTAL CONTROLS:
   #1 - REBAR FOUND (BENCHMARK)
   NORTHING: 5000.0000
   EASTING: 5000.0000
   #2 -CENTER OF DROP INLET MANHOLE COVER
   NORTHING: 5013.9472
   EASTING: 5342.8022

REFERENCES:

1. CONSTRUCTION DOCUMENTS TITLED USCA PEDESTIRAN BRIDGE PREPARED BY CHAO & ASSOCIATES, INC. (PROJECT No. H29-9545-PG) FOR UNIVERSITY OF SOUTH CAROLINA AIKEN ON AUGUST 10, 2015.

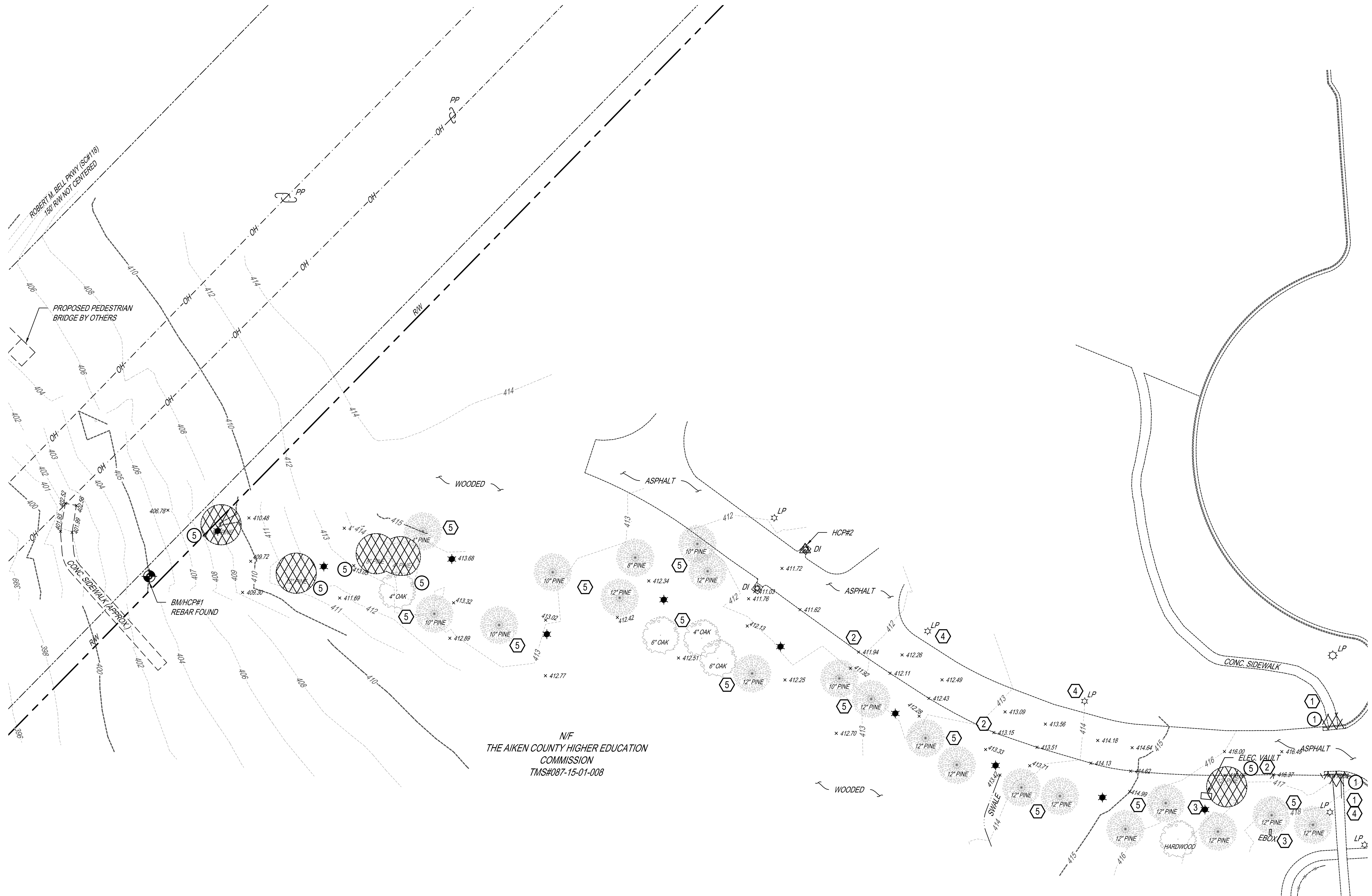
DEMOLITION LEGEND:

- (#) TO BE REMOVED
- ⟨#⟩ PROTECT & MAINTAIN

1. CONC. PAVEMENT/PAD/SIDEWALK (SAWCUT OR REMOVE FROM NEAREST JOINT)
2. ASPHALT PAVEMENT (REMOVAL OR REPLACEMENT, SEE LAYOUT PLAN)
3. UTILITY STRUCTURE/PIPE
4. LIGHTING/POWER (SCE&G LIGHT POLES)
5. TREES/VEGETATION (NOT HATCHED FOR CLARITY, SEE CLEARING LIMITS)

DEMOLITION NOTES:

1. ALL ITEMS TO BE DEMOLISHED ARE DOUBLE HATCHED; ITEMS TO BE ABANDONED (IF ANY) ARE SINGLE HATCHED; AND BOTH SHOWN DOTTED.
2. ALL UNDERGROUND LOCATIONS ARE APPROXIMATE AND SUPPLIED BY VARIOUS UTILITY COMPANIES. NOTIFY THE ENGINEER IMMEDIATELY IN WRITING OF ANY CONFLICTS OR DISCREPANCIES.
3. CONTRACTOR TO VERIFY ALL EXISTING FIELD CONDITIONS PRIOR TO DEMOLITION & CONSTRUCTION WORK.
4. ALL DEMOLISHED ITEMS TO BE REMOVED FROM SITE & DISPOSED OF IN LEGAL MANNER OR UPON OWNER'S DISCRETION .
5. TREE REMOVAL: REMOVE TREE, GRIND STUMP, REMOVE GRINDINGS AND LEGALLY DISPOSE. BACKFILL WITH CLAY SAND FILL, COMPACT TO 90% STANDARD PROCTOR.



EXISTING CONDITIONS PLAN

GRAPHIC SCALE

30' 15' 0 30' 60'

1"=30'

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UTILITY WARNING:
The underground utilities shown have been located from field survey information and existing drawings. The engineer makes no guarantee that the underground utilities shown comprise all such utilities in the area, either in service or abandoned. The engineer further does not warrant that the underground utilities shown are in the exact location indicated although he does certify that they are located as accurately as possible from information available. The engineer has not physically located the underground utilities.

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CLIENT: USC AIKEN
AIKEN, SOUTH CAROLINA

PROJECT NAME: **PEDESTRIAN BRIDGE SIDEWALK CONNECTOR**

PROJECT LOCATION: AIKEN, SOUTH CAROLINA

State of South Carolina — Registered Landscape Architect — No. 1056 — ZACHARY K. DAVIS — 8/17/16

REV.	DATE	BY	DESCRIPTION
0	08/17/16	ZKD	ISSUED FOR CONSTRUCTION

PROJECT NO.	6930.1601
DRAWN BY :	ZKD
CHECKED BY :	JDP
DATE:	08/01/16

SHEET TITLE : **EXISTING CONDITIONS PLAN**

SCALE: 1" = 30'

DRAWING NO. **CV-101** REV. **0**

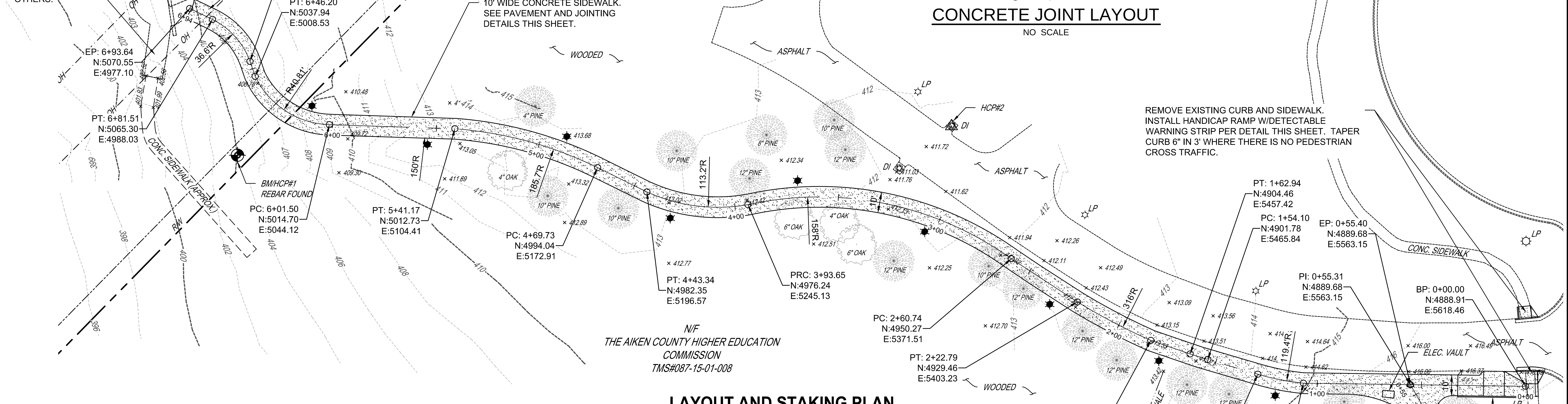
GENERAL NOTES:

A. SITE SPECIFIC

1. THE CONTRACTOR SHALL NOTIFY AND RECEIVE APPROVAL FOR THE METHOD, SPACE REQUIREMENTS, AND SCHEDULING OF CONSTRUCTION FROM THE OWNER PRIOR TO ANY CONSTRUCTION.
2. THE CONTRACTOR SHALL MAINTAIN EXISTING TRAFFIC WAYS AS AGREED UPON WITH THE OWNER ALL TIMES DURING CONSTRUCTION.
3. THE CONTRACTOR SHALL REPAIR OR REPLACE AT NO COST TO THE OWNER ANY DAMAGE INCURRED TO ABOVE OR BELOW GROUND ELECTRICAL OR PIPING SERVICES OR ANY EXISTING STRUCTURES.
4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, LOCATIONS, CONDITIONS, AND COMPLETENESS OF ALL EXISTING CONSTRUCTION SHOWN BEFORE BEGINNING WORK.
5. EXCESS EARTH MAYBE STOCKPILED ONSITE AS DIRECTED BY THE OWNER. STOCKPILE SHOULD NOT OBSTRUCT NATURAL DRAINAGE OR CAUSE OFFSITE ENVIRONMENTAL DAMAGE.
6. ALL EXCESS SOIL SHALL BE HAULED OFF AND LEGALLY DISPOSED UNLESS DIRECTED OTHERWISE BY OWNER.
7. ALL DISTURBED AREAS NOT GRASSED WILL RECEIVE 3" DEEP LONG LEAF PINESTRAW MULCH.

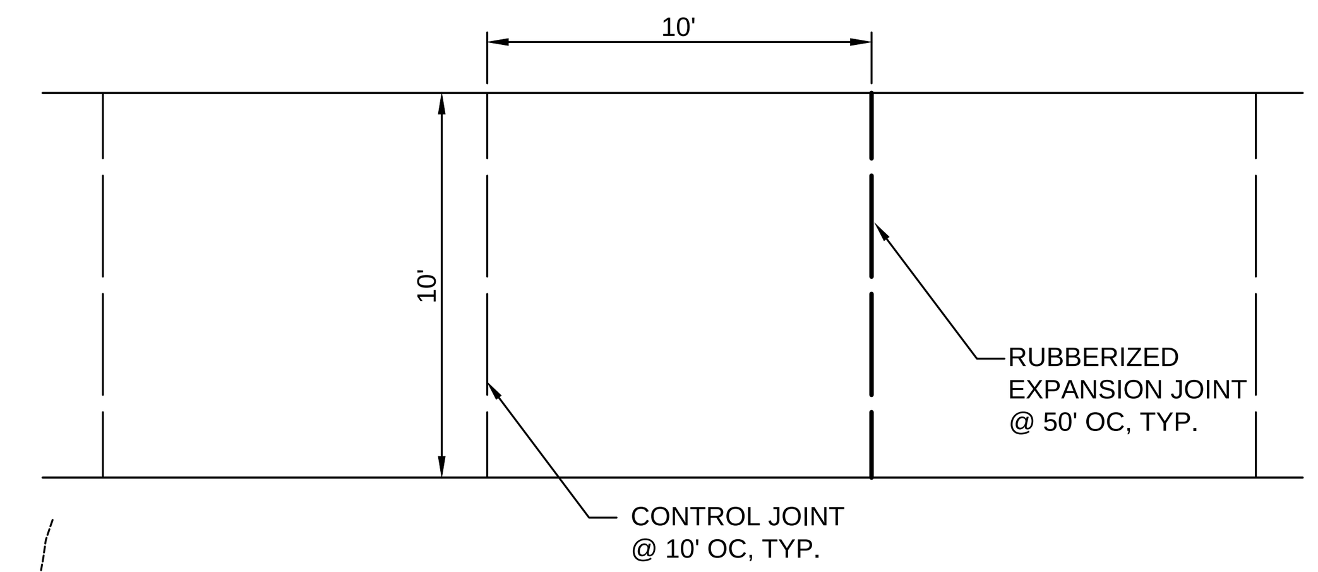
LEGEND:

- CONCRETE
- PROPERTY LINE
- SANITARY SEWER PIPE
- STORM DRAIN PIPE
- WATER LINE
- AIR CONDITION/HEATING PAD
- IRRIGATION CONTROL VALVE
- WATER METER
- VALVE (WATER OR NATURAL GAS)
- FIRE HYDRANT
- ELECTRICAL BOX/PANEL
- SANITARY SEWER CLEANOUT
- SANITARY SEWER MANHOLE
- STORM STRUCTURE
- TREE
- BENCHMARK
- HORIZONTAL CONTROL POINT



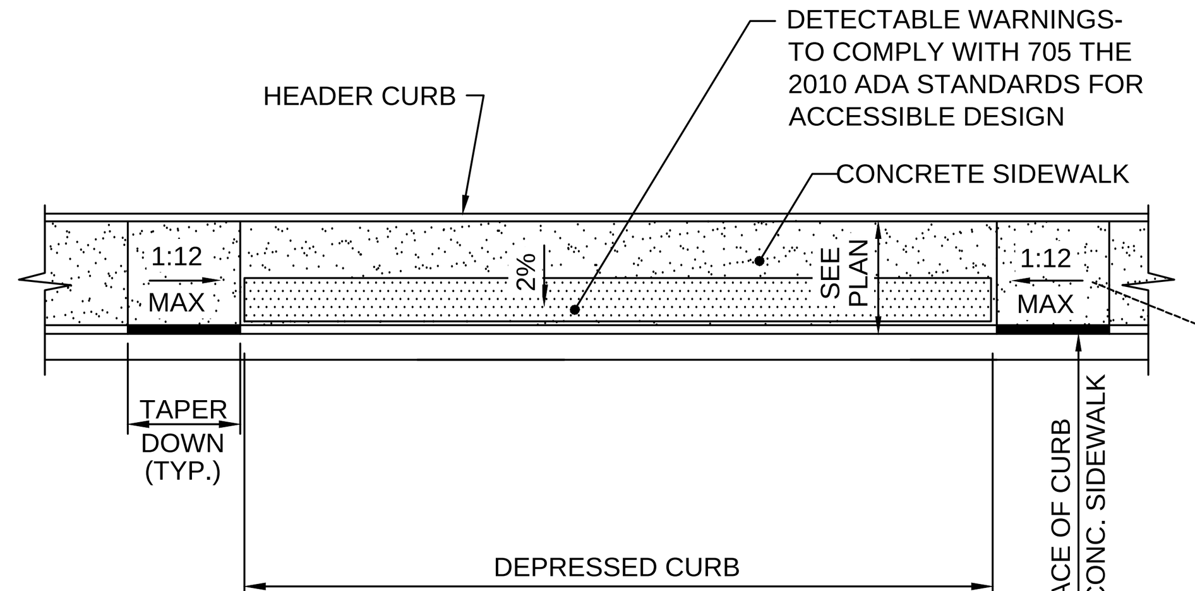
LAYOUT AND STAKING PLAN

GRAPHIC SCALE 30' 15' 0 30' 60'
1"=30'



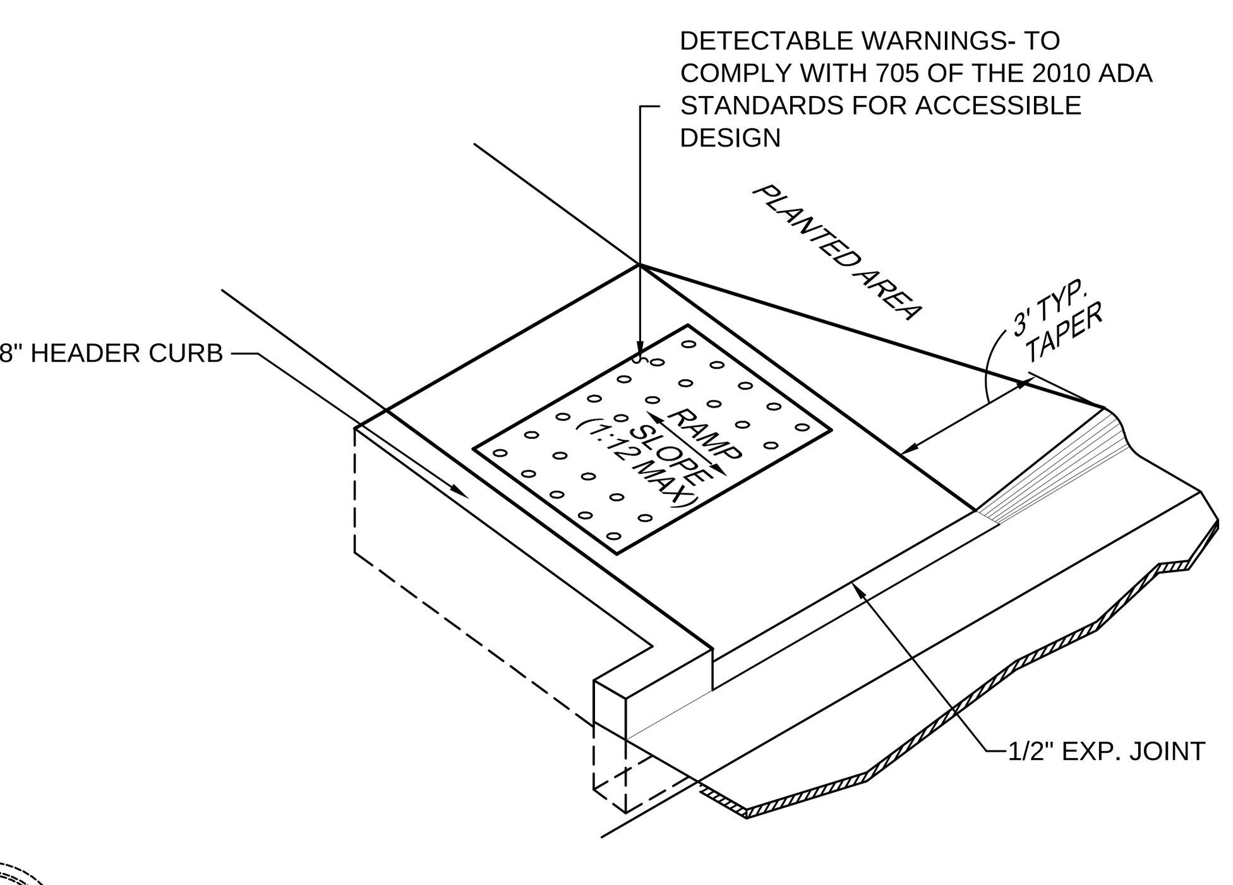
CONCRETE JOINT LAYOUT

NO SCALE



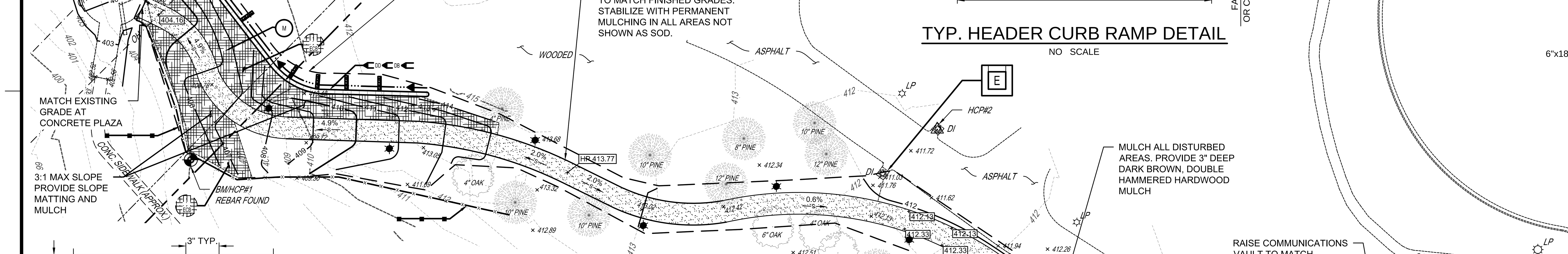
TYP. HEADER CURB RAMP DETAIL

NO SCALE



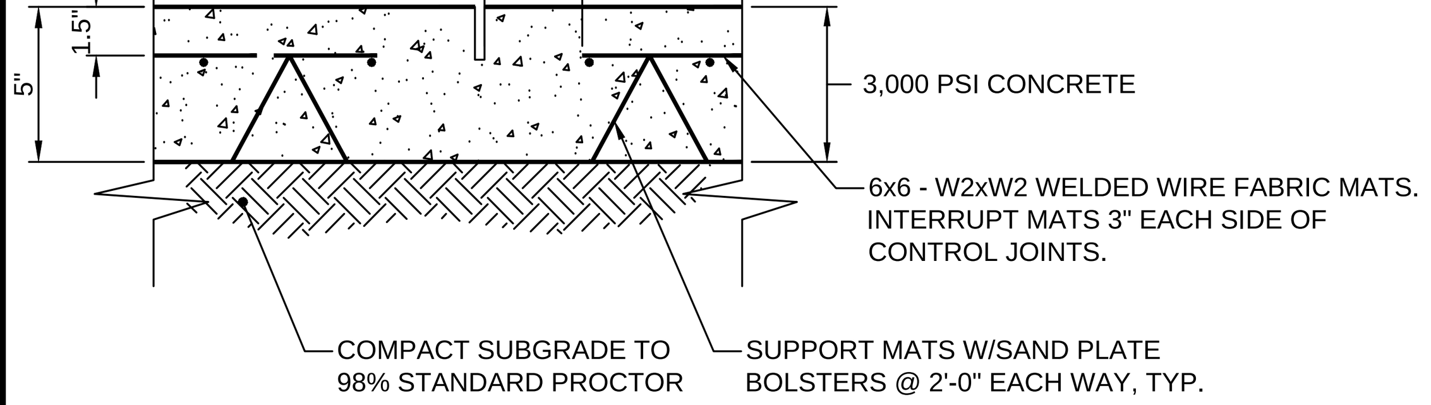
CURB TAPER DETAIL AT SIDEWALK RAMP

NO SCALE



GRADING PLAN

GRAPHIC SCALE 30' 15' 0 30' 60'
1"=30'

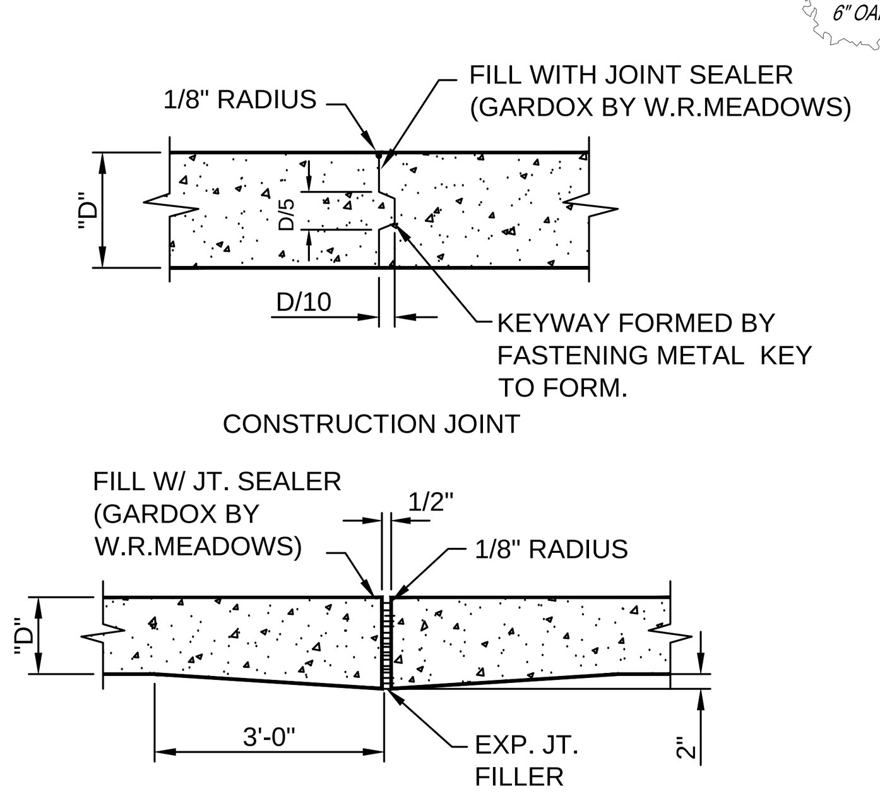


CONCRETE PAVING

NOTES:
1. PROVIDE 1/2" EXP. JOINT FILLER BY REFLEX RUBBER PER ASTM D1751 & ASTM D1752 @ 50' O.C.
2. THICKENED SLAB EDGE 2" IN 36" AT EDGE OF PAVING.
3. MAXIMUM JOINT SPACING(FEET) SHALL BE 2-1/2 x PAVEMENT THICKNESS (INCHES) CONTRACTOR SHALL ADJUST JOINT LOCATIONS TO LINE UP WITH CORNERS OF STRUCTURES.
4. ALL CONCRETE SHALL BE 3,000 PSI.
5. UNREINFORCED CONCRETE SHALL HAVE POLYPROPYLENE FIBER REINFORCING.
6. CONSTRUCTION PRACTICES SHALL ADDRESS CONTROL JOINTS OR CONTRACTION JOINTS AND ISOLATION (EXPANSION) JOINTS CONSTRUCTION AND LAYOUT.
7. CONCRETE TESTING WILL BE PERFORMED BY USC AIKEN 3RD PARTY CONTRACTOR.
8. CONTROL JOINTS SHALL BE TOOLED AND SHALL BE 1 ½" DEEP WITH ⅛" RADIUS.
9. PROVIDE MEDIUM BROOM FINISH.

CONCRETE PAVEMENT DETAILS

NO SCALE



CONCRETE JOINT DETAILS

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CLIENT: USC AIKEN, AIKEN, SOUTH CAROLINA

PROJECT NAME: PEDESTRIAN BRIDGE SIDEWALK CONNECTOR

PROJECT LOCATION: AIKEN, SOUTH CAROLINA

State of South Carolina Registered Landscape Architect No. 1058 Zachary K. Davis 8/17/16

REV.	DATE	BY	DESCRIPTION
0	08/17/16	ZKD	ISSUED FOR CONSTRUCTION

PROJECT NO.	6930.1601
DRAWN BY :	ZKD
CHECKED BY :	DRP
DATE:	08/05/16

SHEET TITLE : **LAYOUT AND GRADING PLAN**

SCALE: 1" = 30'

DRAWING NO. **C-101** REV. 0

K:\69301601\Civil\JLA-PROPOSED.dwg Plotted:8/18/2016 5:23 PM By:Zachary Davis, RLA

BORDER: JLA24x36-XREF.DWG REV. 04/28/2016 BLB

EROSION PREVENTION AND SEDIMENT BMP DESIGN PROCEDURES

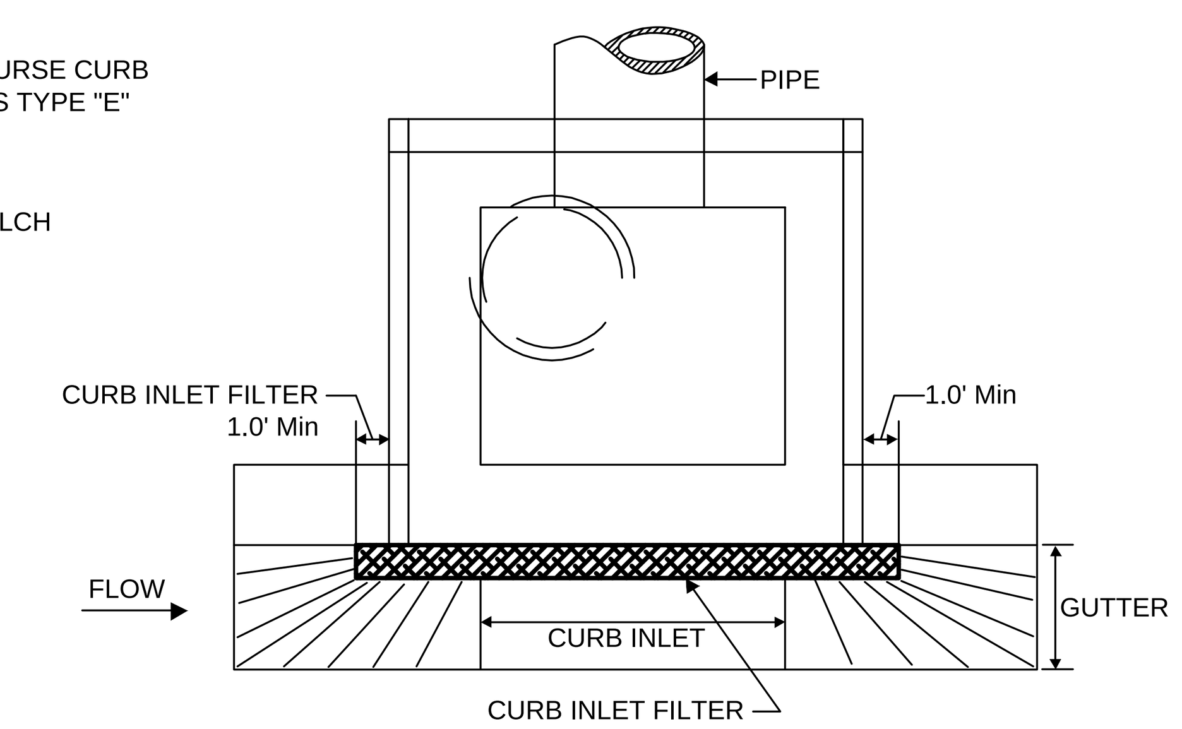
EROSION PREVENTION MEASURES

- SILT FENCE
- DIVERSION BERM
- ROCK CHECK DAM
- LEVEL SPREADER
- EROSION CONTROL BLANKET

SEDIMENT CONTROL BMP's

- SURFACE COURSE CURB INLET FILTERS TYPE "E"
- TEMPORARY MULCH

PLAN VIEW



SC-10 TYPE "E" CURB INLET FILTER

NO SCALE

TYPE E - SURFACE COURSE CURB INLET FILTERS

MATERIALS:

ONLY USE SURFACE COURSE INLET FILTERS THAT HAVE A MINIMUM HEIGHT OR DIAMETER OF 9-INCHES AND HAVE A MINIMUM LENGTH THAT IS 2-FEET LONGER THAN THE LENGTH OF THE CURB OPENING. SURFACE COURSE INLET FILTERS ARE NOT DESIGNED TO COMPLETELY BLOCK THE INLET OPENING.

SURFACE COURSE INLET FILTERS ARE CONSTRUCTED WITH A SYNTHETIC MATERIAL THAT WILL ALLOW STORM WATER TO FREELY FREELY FLOW THROUGH WHILE TRAPPING SEDIMENT AND DEBRIS. THE GEOTEXTILE IS NON-BIODEGRADABLE AND RESISTANT TO DEGRADATION BY ULTRAVIOLET EXPOSURE AND RESISTANT TO CONTAMINANTS COMMONLY ENCOUNTERED IN IN STORM WATER. STRAW, STRAW FIBER, STRAW BALES, PINE NEEDLES AND LEAF MULCH ARE NOT PERMISSIBLE FILTER MATERIALS.

SURFACE COURSE INLET FILTERS HAVE AGGREGATE COMPARTMENTS FOR STONE, SAND OR OTHER WEIGHTED MATERIALS OR MECHANISMS TO HOLD THE UNIT IN PLACE.

USE FILTER FABRIC THAT IS CAPABLE OF REDUCING EFFLUENT SEDIMENT CONCENTRATIONS BY NO LESS THAN 80% UNDER TYPICAL SEDIMENT MIGRATION CONDITIONS.

APPLICABLE TYPE "E" INLET FILTERS MAY BE SELECTED FROM THE SCDOT APPROVED PRODUCTS LIST.

INSTALLATION:

SURFACE COURSE INLET FILTERS ARE APPLICABLE FOR ROAD CATCH BASIN AFTER THE ROAD SURFACE COURSE IS PLACED. PLACE SURFACE COURSE INLET FILTERS WHERE SEDIMENT MAY SPILL OVER SIDEWALKS AND CURBS. INSTALL SURFACE COURSE INLET FILTERS IN FRONT OF CURB INLET OPENINGS. THE FILTER SHALL HAVE A MINIMUM HEIGHT OR DIAMETER OF 9-INCHES AND HAVE A MINIMUM LENGTH THAT IS 2-FEET LONGER THAN THE LENGTH OF THE CURB OPENING. THIS WILL ALLOW SUFFICIENT LENGTH TO COVER THE INLET WITH AT LEAST 1-FOOT OF CLEARANCE BEYOND THE INLET ON BOTH ENDS.

DO NOT COMPLETELY BLOCK THE INLET OPENING WITH SURFACE COURSE INLET FILTERS. INSTALL SURFACE COURSE INLET FILTERS IN A MANNER TO ALLOW OVERFLOWS TO ENTER THE CATCH BASIN.

FILL THE AGGREGATE COMPARTMENT TO A LEVEL (AT LEAST ½ FULL) THAT WILL KEEP THE SURFACE COURSE INLET FILTER IN PLACE AND CREATE A SEAL BETWEEN THE SURFACE COURSE INLET FILTER AND THE ROAD SURFACE.

INSPECTION AND MAINTENANCE:

PONDING IS LIKELY IF SEDIMENT IS NOT REMOVED REGULARLY.

INSPECT SURFACE COURSE CURB INLET FILTERS ON A REGULAR BASIS AND IMMEDIATELY AFTER MAJOR RAIN EVENTS. CLEAN THE SURFACE COURSE CURB INLET FILTER IF A VISUAL INSPECTION SHOWS SILT AND DEBRIS BUILD UP AROUND THE FILTER.

SC-03 SILT FENCE DETAIL

WHEN AND WHERE TO USE IT
SILT FENCE IS APPLICABLE IN AREAS:

1. WHERE THE MAXIMUM SHEET OR OVERLAND FLOW PATH LENGTH TO THE FENCE IS 100-FEET.
2. WHERE THE MAXIMUM SLOPE STEEPNESS (NORMAL [PERPENDICULAR] TO FENCE LINE) IS 2H:1V.
3. THAT DO NOT RECEIVE CONCENTRATED FLOWS GREATER THAN 0.5 CFS.
4. DO NOT PLACE SILT FENCE ACROSS CHANNELS OR USE IT AS A VELOCITY CONTROL BMP.

MATERIALS:

STEEL POSTS
USE 48-INCH LONG STEEL POSTS THAT MEET THE FOLLOWING MINIMUM PHYSICAL REQUIREMENTS:
COMPOSED OF HIGH STRENGTH STEEL WITH MINIMUM YIELD STRENGTOF 50,000 PSI
HAVE A STANDARD "T" SECTION WITH A NOMINAL FACE WIDTH OF 1.38-INCHES AND NOMINAL "T" LENGTH OF 1.48-INCHES.
WEIGH 1.25 POUNDS PER FOOT (± 8%).
HAVE A SOIL STABILIZATION PLATE WITH A MINIMUM CROSS SECTION AREA OF 17-SQUARE INCHES ATTACHED TO THE STEEL POSTS.
PAINTED WITH A WATER BASED BAKED ENAMEL PAINT.

USE STEEL POSTS WITH A MINIMUM LENGTH OF 4-FEET, WEIGHING 1.25 POUNDS PER LINEAR FOOT (± 8%) WITH PROJECTIONS TO AID IN FASTENING THE FABRIC. EXCEPT WHEN HEAVY CLAY SOILS ARE PRESENT ON SITE, STEEL POSTS WILL HAVE A METAL SOIL STABILIZATION PLATE WELDED NEAR THE BOTTOM SUCH THAT WHEN THE POST IS DRIVEN TO THE PROPER DEPTH, THE PLATE WILL BE BELOW THE GROUND LEVEL FOR ADDED STABILITY.

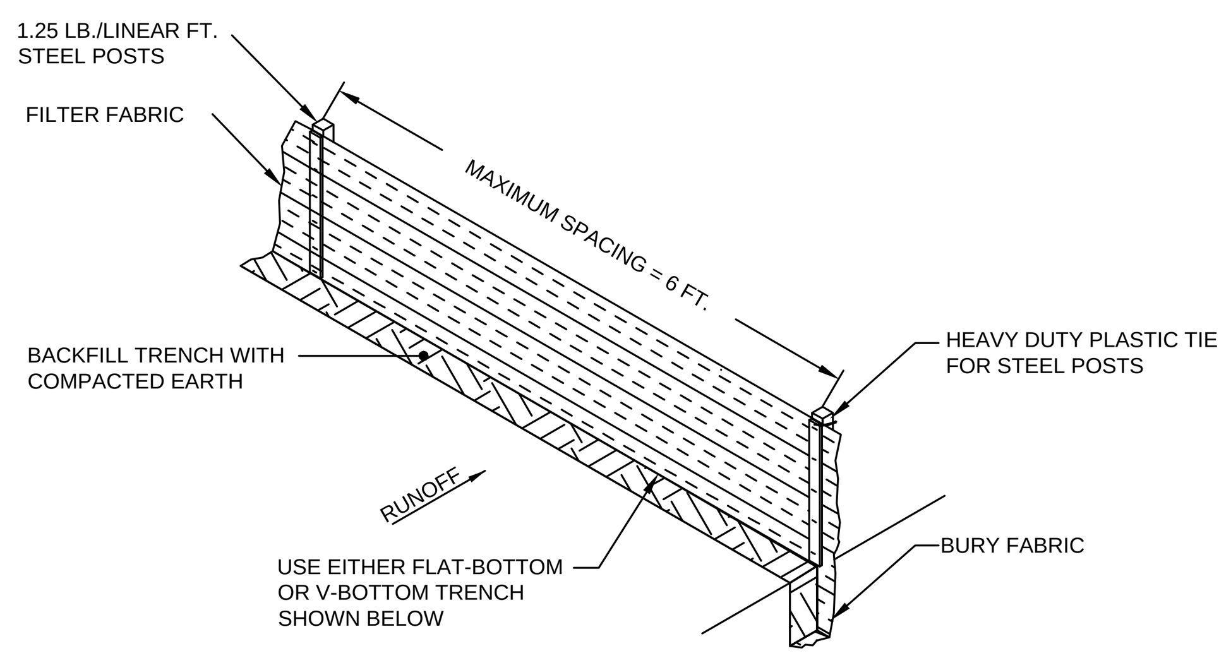
THE SOIL PLATES SHOULD HAVE THE FOLLOWING CHARACTERISTICS:
BE COMPOSED OF MINIMUM 15 GAUGE STEEL.
HAVE A MINIMUM CROSS SECTION AREA OF 17-SQUARE INCHES.

GEOTEXTILE FILTER FABRIC

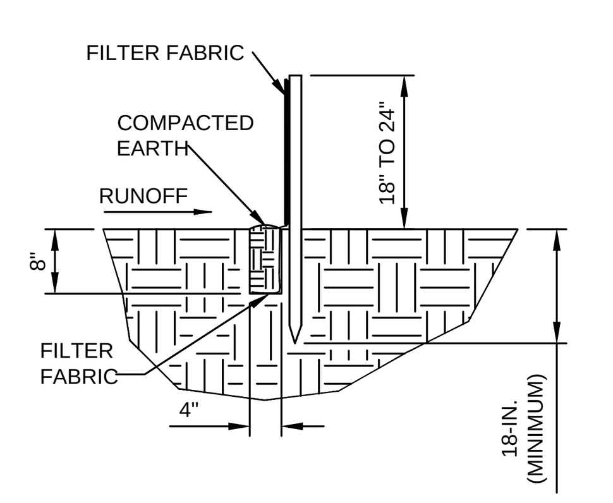
FILTER FABRIC IS:

1. COMPOSED OF FIBERS CONSISTING OF LONG CHAIN SYNTHETIC POLYMERS COMPOSED OF AT LEAST 85% BY WEIGHT OF
2. POLYOLEFINS, POLYESTERS, OR POLYAMIDES. FORMED INTO A NETWORK SUCH THAT THE FILAMENTS OR YARNS RETAIN
3. DIMENSIONAL STABILITY RELATIVE TO EACH OTHER. FREE OF ANY TREATMENT OR COATING WHICH MIGHT ADVERSELY ALTER
4. ITS PHYSICAL PROPERTIES AFTER INSTALLATION. FREE OF DEFECTS OR FLAWS THAT SIGNIFICANTLY AFFECT ITS PHYSICAL
5. AND/OR FILTERING PROPERTIES. CUT TO A MINIMUM WIDTH OF 36 INCHES.

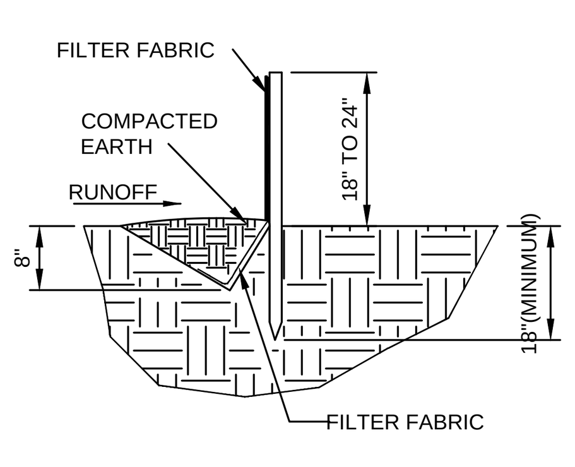
USE ONLY FABRIC APPEARING ON SCDOT APPROVAL SHEET #34 MEETING THE REQUIREMENTS OF THE MOST CURRENT EDITION OF THE SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.



SILT FENCE INSTALLATION



FLAT-BOTTOM TRENCH DETAIL



V-SHAPED TRENCH DETAIL

SC-03 SILT FENCE

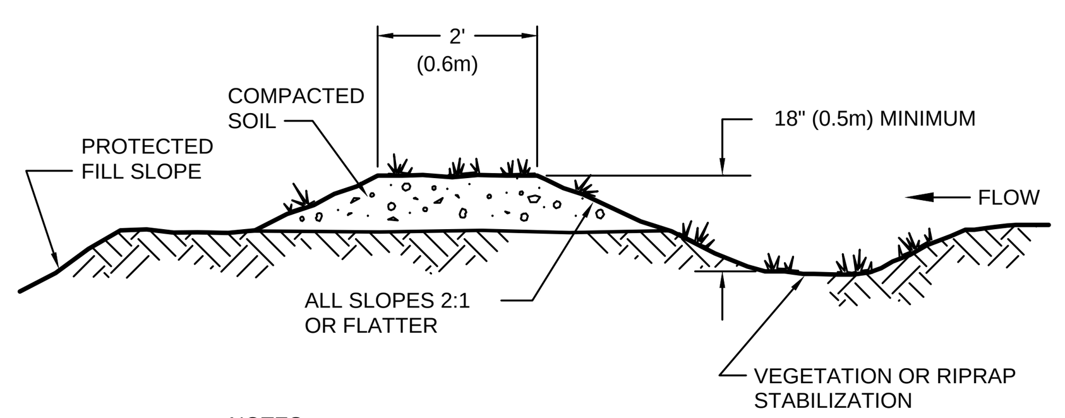
NO SCALE

INSTALLATION:::

EXCAVATE A TRENCH APPROXIMATELY 6-INCHES WIDE AND 6-INCHES DEEP WHEN PLACING FABRIC BY HAND. PLACE 12-INCHES OF GEOTEXTILE FABRIC INTO THE 6-INCH DEEP TRENCH, EXTENDING THE REMAINING 6-INCHES TOWARDS THE UPSLOPE SIDE OF THE TRENCH. BACKFILL THE TRENCH WITH SOIL OR GRAVEL AND COMPACT.BURY 12-INCHES OF FABRIC INTO THE GROUND WHEN PNEUMATICALLY INSTALLING SILT FENCE WITH A SLICING METHOD. PURCHASE FABRIC IN CONTINUOUS ROLLS AND CUT TO THE LENGTH OF THE BARRIER TO AVOID JOINTS. WHEN JOINTS ARE NECESSARY, WRAPPED THE FABRIC TOGETHER AT A SUPPORT POST WITH BOTH ENDS FASTENED TO THE POST, WITH A 6-INCH MINIMUM OVERLAP. INSTALL POSTS TO A MINIMUM DEPTH OF 24-INCHES. INSTALL POSTS A MINIMUM OF 1- TO 2- INCHES ABOVE THE FABRIC, WITH NO MORE THAN 3-FEET OF THE POST ABOVE THE GROUND. SPACE POSTS TO MAXIMUM 6-FEET CENTERS. ATTACH FABRIC TO WOOD POSTS USING STAPLES MADE OF HEAVY-DUTY WIRE AT LEAST 1½-INCH LONG, SPACED A MAXIMUM OF 6-INCHES APART. STAPLE A 2-INCH WIDE LATHE OVER THE FILTER FABRIC TO SECURELY FASTEN IT TO THE UPSLOPE SIDE OF WOODEN POSTS. ATTACH FABRIC TO THE STEEL POSTS USING HEAVY-DUTY PLASTIC TIES THAT ARE EVENLY SPACED AND PLACED IN A MANNER TO PREVENT SAGGING OR TEARING OF THE FABRIC. IN CALL CASES, TIES SHOULD BE AFFIXED IN NO LESS THAN 4 PLACES. INSTALL THE FABRIC A MINIMUM OF 24-INCHES ABOVE THE GROUND. WHEN NECESSARY, THE HEIGHT OF THE FENCE ABOVE GROUND MAY BE GREATER THAN 24-INCHES. IN TIDAL AREAS, EXTRA SILT FENCE HEIGHT MAY BE REQUIRED. THE POST HEIGHT WILL BE TWICE THE EXPOSED POST HEIGHT. POST SPACING WILLREMAIN THE SAME AND EXTRA HEIGHT FABRIC WILL BE 4-, 5-, OR 6-FEET TALL. LOCATE SILT FENCE CHECKS EVERY 100 FEET MAXIMUM AND AT LOW POINTS. INSTALL THE FENCE PERPENDICULAR TO THE DIRECTION OF FLOW AND PLACE THE FENCE THE PROPER DISTANCE FROM THE TOE OF STEEP SLOPES TO PROVIDE SEDIMENT STORAGE AND ACCESS FOR MAINTENANCE AND CLEANOUT.

INSPECTION AND MAINTENANCE:

1. INSPECT EVERY SEVEN CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES ½-INCHES OR MORE OF PRECIPITATION. CHECK FOR SEDIMENT BUILDUP AND FENCE INTEGRITY. CHECK WHERE RUNOFF HAS ERODED A CHANNEL BENEATH THE FENCE, OR WHERE THE FENCE HAS SAGGED OR COLLAPSED BY FENCE OVERTOPPING.
2. IF THE FENCE FABRIC TEARS, BEGINS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE SECTION OF FENCE IMMEDIATELY.
3. REMOVE SEDIMENT ACCUMULATED ALONG THE FENCE WHEN IT REACHES 1/3 THE HEIGHT OF THE FENCE, ESPECIALLY IF HEAVY RAINS ARE EXPECTED.
4. REMOVE TRAPPED SEDIMENT FROM THE SITE OR STABILIZE IT ON SITE.
5. REMOVE SILT FENCE WITHIN 30 DAYS AFTER FINAL STABILIZATION IS ACHIEVED OR AFTER TEMPORARY BEST MANAGEMENT PRACTICES (BMPS) ARE NO LONGER NEEDED.
6. PERMANENTLY STABILIZE DISTURBED AREAS RESULTING FROM FENCE REMOVAL.



NOTES:
1. THE CHANNEL BEHIND THE DIKE SHALL HAVE POSITIVE GRADE TO A STABILIZED OUTLET.
2. THE DIKE SHALL BE ADEQUATELY COMPACTED TO PREVENT FAILURE.
3. THE DIKE SHALL BE STABLILIZED WITH TEMPORARY OR PERMANENT SEEDING OR RIPRAP.

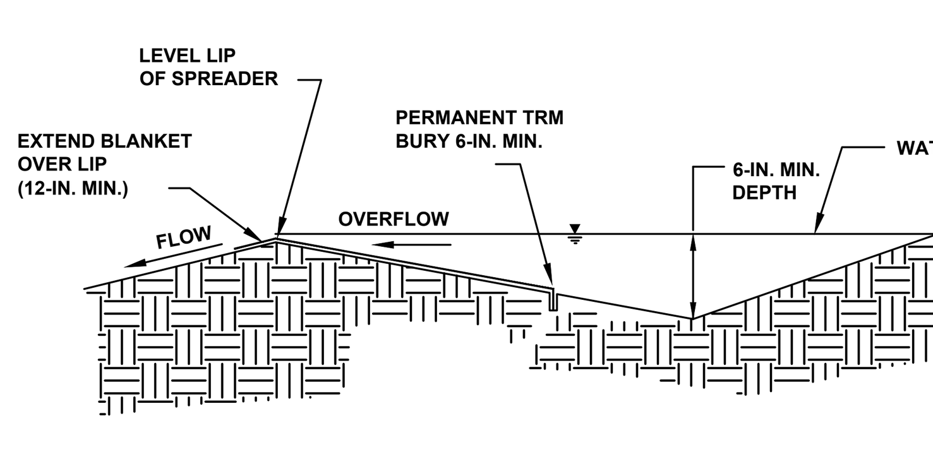
TYPICAL FILL DIVERSION

CONSTRUCTION SPECIFICATIONS:
* TEMPORARY DIVERSION DIKES MUST BE INSTALLED AS A FIRST STEP IN THE LAND-DISTURBING ACTIVITY AND MUST BE FUNCTIONAL PRIOR TO UPSLOPE LAND DISTURBANCE.
* THE DIKE SHOULD BE ADEQUATELY COMPACTED TO PREVENT FAILURE.
* TEMPORARY OR PERMANENT SEEDING AND MULCH SHALL BE APPLIED TO THE DIKE IMMEDIATELY FOLLOWING ITS CONSTRUCTION.
* THE DIKE SHOULD BE LOCATED TO MINIMIZE DAMAGES BY CONSTRUCTION OPERATIONS AND TRAFFIC.

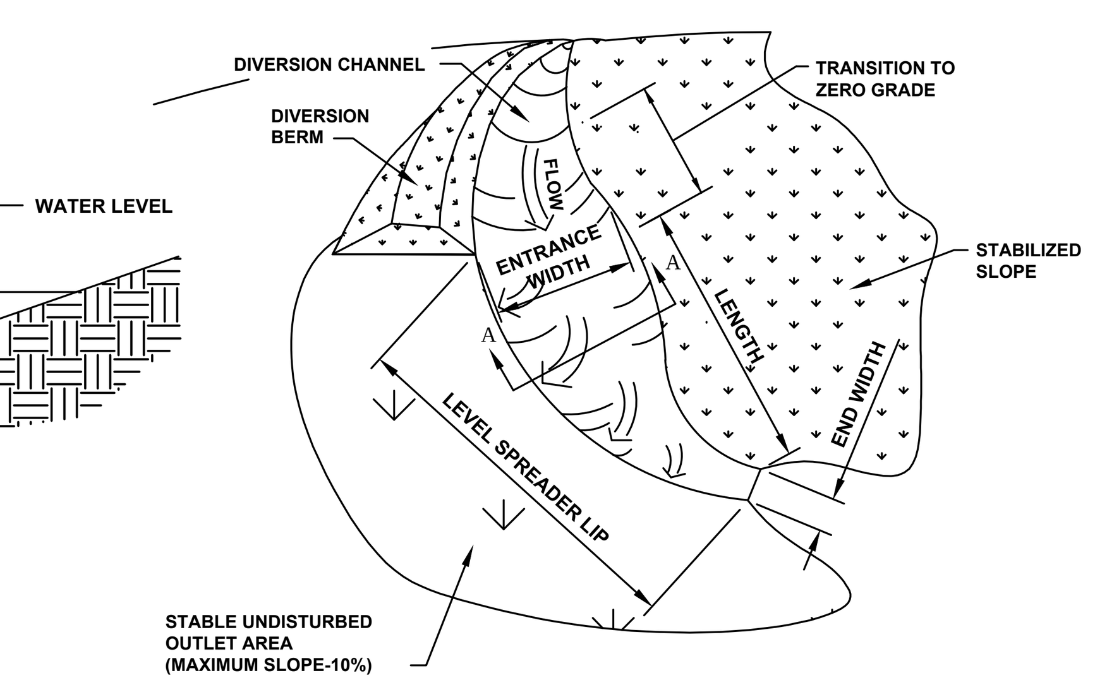
INSPECTION AND MAINTENANCE:
* THE MEASURE SHALL BE INSPECTED AFTER EVERY STORM AND REPAIRS MADE TO THE DIKE, FLOW CHANNEL, OUTLET OR SEDIMENT TRAPPING FACILITY, AS NECESSARY.
* ONCE EVERY TWO WEEKS, WHETHER A STORM EVENT HAS OCCURRED OR NOT, THE MEASURE SHALL BE INSPECTED AND REPAIRS MADE IF NEEDED.
* DIVERSION DIKES USED TO TRAP SEDIMENT SHALL BE INSPECTED AND CLEANED OUT AFTER EVERY SIGNIFICANT STORM.
* DAMAGES CAUSED BY CONSTRUCTION TRAFFIC OR OTHER ACTIVITY MUST BE REPAIRED BEFORE THE END OF EACH WORKING DAY.
* IF VEGETATION HAS NOT BEEN ESTABLISHED, RESEED DAMAGED AND SPARSE AREAS IMMEDIATELY.

DIVERSION BERM

NO SCALE



SECTION A-A



PERSPECTIVE VIEW

LEVEL SPREADER

NO SCALE

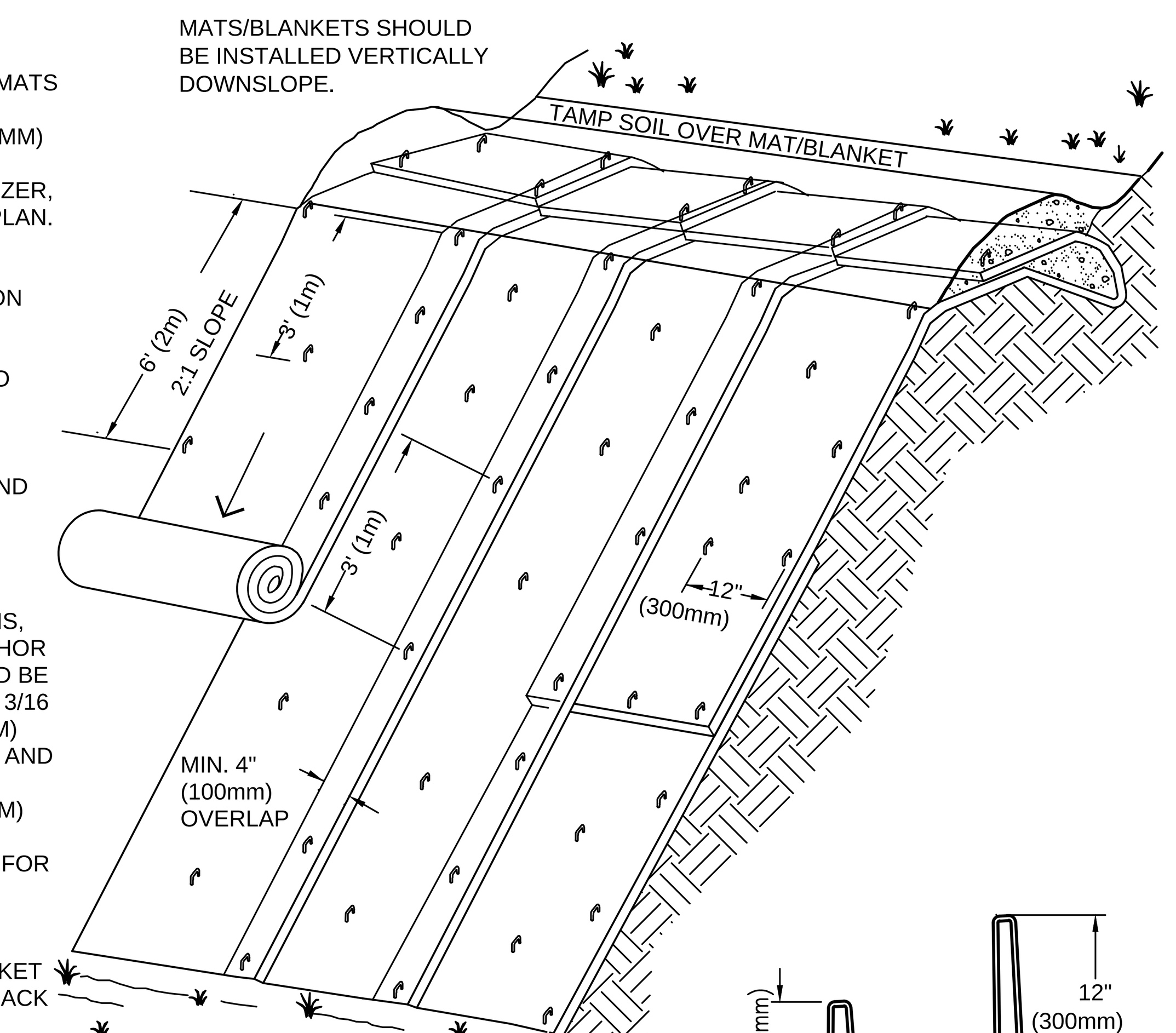
CONSTRUCTION SPECIFICATIONS:
SITE PREPARATION:
1. PROPER SITE PREPARATION IS ESSENTIAL TO ENSURE COMPLETE CONTACT OF THE PROTECTION MATTING WITH THE SOIL.
2. GRADE AND SHAPE AREA OF INSTALLATION.
3. REMOVE ALL ROCKS, CLODS, VEGETATIVE OR OTHER OBSTRUCTIONS SO THAT THE INSTALLED BLANKETS, OR MATS WILL HAVE DIRECT CONTACT WITH THE SOIL.
4. PREPARE SEEDBED BY LOOSENING 2-3 INCHES (50.8-76.2 MM) OF TOPSOIL ABOVE FINAL GRADE.
5. INCORPORATE AMENDMENTS, SUCH AS LIME AND FERTILIZER, INTO SOIL ACCORDING TO SOIL TEST AND THE SEEDING PLAN.

SEEDING:
1. SEED AREA BEFORE BLANKET INSTALLATION FOR EROSION CONTROL AND RE-VEGETATION. SEEDING AFTER MAT INSTALLATION IS OFTEN SPECIFIED FOR TURF REINFORCEMENT APPLICATION. WHEN SEEDING PRIOR TO BLANKET INSTALLATION, ALL CHECK SLOTS AND OTHER AREAS DISTURBED DURING INSTALLATION MUST BE RESEEDED.
2. WHERE SOIL FILLING IS SPECIFIED, SEED THE MATTING AND THE ENTIRE DISTURBED AREA AFTER INSTALLATION AND PRIOR TO FILLING THE MAT WITH SOIL.

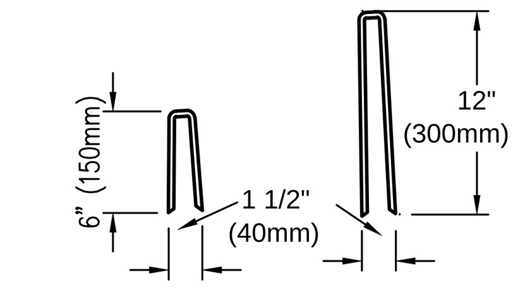
ANCHORING:
1. U-SHAPED WIRE STAPLES, METAL GEOTEXTILE STAKE PINS, OR TRIANGULAR WOODEN STAKES CAN BE USED TO ANCHOR MATS TO THE GROUND SURFACE. WIRE STAPLES SHOULD BE A MINIMUM OF 11 GAUGE. METAL STAKE PINS SHOULD BE 3/16 INCH (4.8 MM) DIAMETER STEEL WITH A 1 1/2 INCH (38.1 MM) STEEL WASHER AT THE HEAD OF THE PIN. WIRE STAPLES AND METAL STAKES SHOULD BE DRIVEN FLUSH TO THE SOIL SURFACE. ALL ANCHORS SHOULD BE 6-8 INCHES (0.2-0.5 M) LONG AND HAVE SUFFICIENT GROUND PENETRATION TO RESIST PULLOUT. LONGER ANCHORS MAY BE REQUIRED FOR LOOSE SOILS.

INSTALLATION ON SLOPES:
1. BEGIN AT THE TOP OF THE SLOPE AND ANCHOR ITS BLANKET IN A 6 INCH (0.2 M) DEEP X 6 INCH (0.2 M) WIDE TRENCH. BACK FILL TRENCH AND TAMP EARTH FIRMLY.
2. UNROLL BLANKET DOWN SLOPE IN THE DIRECTION OF THE WATER FLOW.
3. THE EDGES OF ADJACENT PARALLEL ROLLS MUST BE OVERLAPPED 2-3 INCHES (51-76 MM) AND BE STAPLED EVERY 3 FEET (0.9 M).
4. WHEN BLANKETS MUST BE SPLICED, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH 6 INCH (0.2 M) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12 INCHES (0.3 M) APART.
5. LAY BLANKETS LOOSELY AND MAINTAIN DIRECT CONTACT WITH THE SOIL - DO NOT STRETCH.
6. BLANKETS SHALL BE STAPLED SUFFICIENTLY TO ANCHOR BLANKET AND MAINTAIN CONTACT WITH THE SOIL. STAPLES SHALL BE PLACED DOWN THE CENTER AND STAGGERED WITH THE STAPLES PLACED ALONG THE EDGES. STEEP SLOPES, 1:1 TO 2:1, REQUIRE 2 STAPLES PER SQUARE YARD. MODERATE SLOPES, 2:1 TO 3:1, REQUIRE 1-2 STAPLES PER SQUARE YARD (1 STAPLE 3' O.C.). GENTLE SLOPES REQUIRE 1 STAPLE PER SQUARE YARD. (NOTE: SLOPES FLATTER THAN 2.5 TO 1 THE MATTING WILL BE OPTIONAL.)

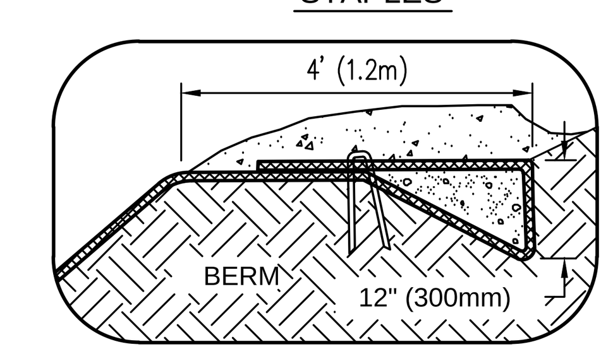
INSPECTION AND MAINTENANCE:
1. ALL BLANKET AND MATS SHOULD BE INSPECTED PERIODICALLY FOLLOWING INSTALLATION.
2. INSPECT INSTALLATION AFTER SIGNIFICANT RAINSTORMS TO CHECK FOR EROSION AND UNDERMINING. ANY FAILURE SHOULD BE REPAIRED IMMEDIATELY.
3. IF WASHOUT OR BREAKAGE OCCURS, REINSTALL THE MATERIAL AFTER REPAIRING THE DAMAGE TO THE SLOPE OR DRAINAGE WAY.



ISOMETRIC VIEW



STAPLES



TYPICAL SLOPE SOIL STABLIZATION

NOTES:
1. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS AND GRASS. MATS/ BLANKETS SHALL HAVE GOOD SOIL CONTACT.
2. APPLY PERMANENT SEEDING BEFORE PLACING BLANKETS. LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.
3. TO BE USED ON ALL SLOPE STEEPER THAN 2.5:1 AND WITH A HEIGHT OF TEN FEET OR GREATER.

EROSION CONTROL BLANKETS & MATS

NO SCALE

SC-4 ROCK DITCH CHECK

WHEN AND WHERE TO USE IT:

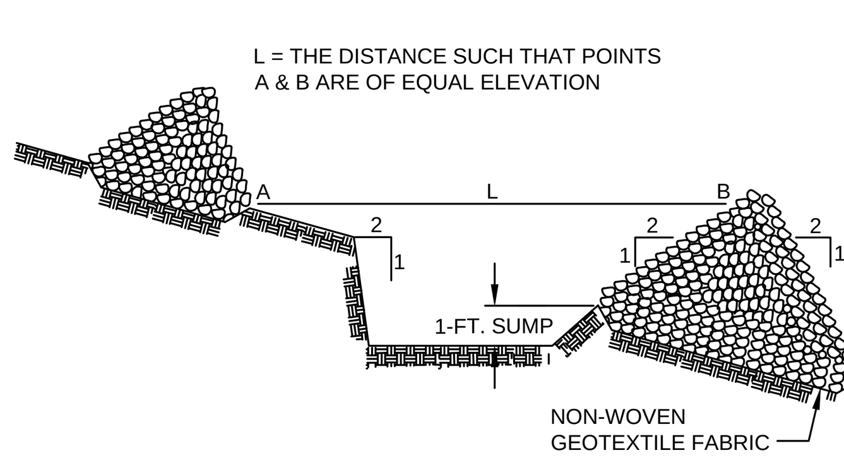
1. A ROCK DITCH CHECK SHOULD BE INSTALLED IN STEEPLY SLOPED SWALES, OR IN SWALES WHERE ADEQUATE VEGETATION CANNOT BE ESTABLISHED.
2. ROCK DITCH CHECKS SHOULD BE USED ONLY IN SMALL OPEN CHANNELS.
3. ROCK DITCH CHECKS SHOULD NOT BE PLACED IN WATERS OF THE COMMONWEALTH OR USGS BLUE-LINE STREAMS (UNLESS APPROVED BY SCDHEC OR FEDERAL AUTHORITIES).

INSTALLATION:

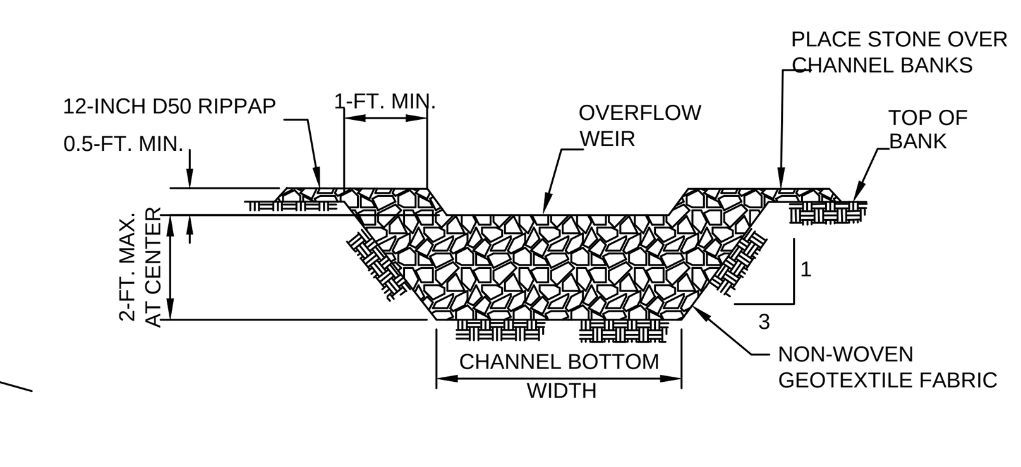
1. A NON-WOVEN GEOTEXTILE FABRIC SHALL BE INSTALLED OVER THE SOIL SURFACE WHERE THE ROCK DITCH CHECK IS TO BE PLACED.
2. THE BODY OF THE ROCK DITCH CHECK SHALL BE COMPOSED OF 12-INCH D50 RIPRAP.
3. THE UPSTREAM FACE OF THE ROCK DITCH CHECK MAY BE COMPOSED OF 1-INCH D50 WASHED STONE.
4. ROCK DITCH CHECKS SHOULD NOT EXCEED A HEIGHT OF 2-FEET AT THE CENTERLINE OF THE CHANNEL.
5. ROCK DITCH CHECKS SHOULD HAVE A MINIMUM TOP FLOW LENGTH OF 2-FEET.
6. STONE SHOULD BE PLACED OVER THE CHANNEL BANKS TO PREVENT WATER FROM CUTTING AROUND THE DITCH CHECK.
7. THE ROCK MUST BE PLACED BY HAND OR MECHANICAL PLACEMENT (NO DUMPING OF ROCK TO FORM DAM) TO ACHIEVE COMPLETE COVERAGE OF THE DITCH OR SWALE AND TO ENSURE THAT THE CENTER OF THE CHECK IS LOWER THAN THE EDGES.
8. THE MAXIMUM SPACING BETWEEN THE DAMS SHOULD BE SUCH THAT THE TOE OF THE UPSTREAM CHECK IS AT THE SAME ELEVATION AS THE TOP OF THE DOWNSTREAM CHECK.

INSPECTION AND MAINTENANCE:

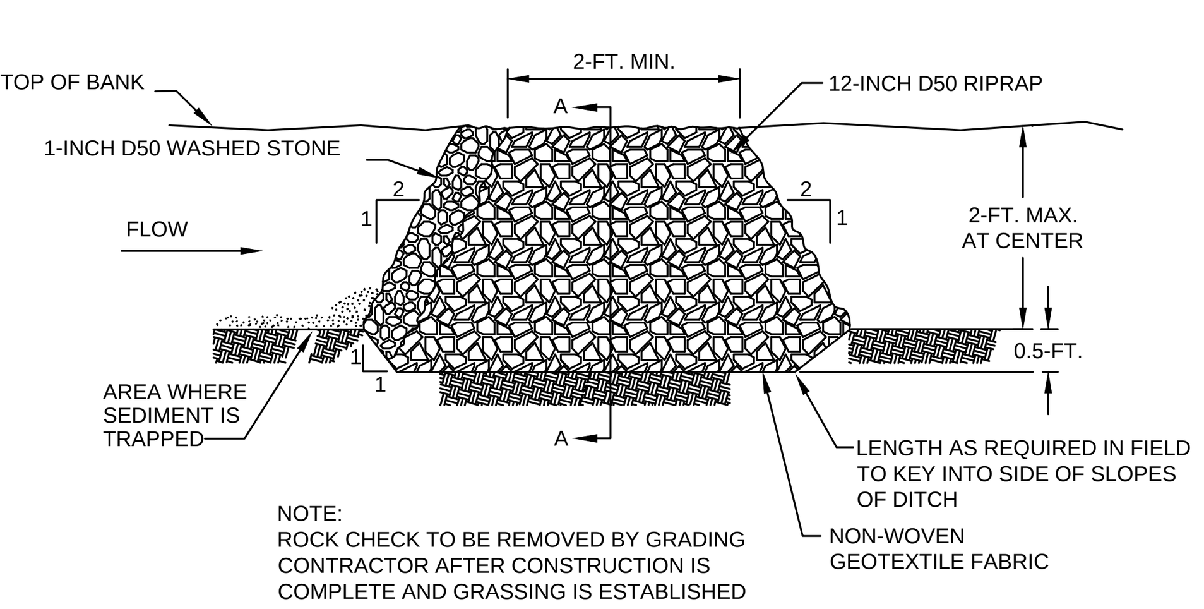
1. INSPECT ROCK DITCH CHECKS EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES ½-INCHES OR MORE OF PRECIPITATION. INSPECT FOR SEDIMENT AND DEBRIS ACCUMULATION. INSPECT DITCH CHECK EDGES FOR EROSION AND REPAIR
2. PROMPTLY AS REQUIRED.
3. SEDIMENT SHOULD BE REMOVED WHEN IT REACHES 1/3 THE ORIGINAL CHECK HEIGHT.
4. IN THE CASE OF GRASS-LINED DITCHES AND SWALES, ROCK DITCH CHECKS SHOULD BE REMOVED WHEN THE GRASS HAS MATURED SUFFICIENTLY TO PROTECT THE DITCH OR SWALE UNLESS THE SLOPE OF THE SWALE IS GREATER THAN 4%.
5. AFTER CONSTRUCTION IS COMPLETE, ALL STONE SHOULD BE REMOVED BY THE GRADING CONTRACTOR IF VEGETATION WILL BE USED FOR PERMANENT EROSION CONTROL MEASURES.
6. THE AREA BENEATH THE ROCK DITCH CHECKS SHOULD BE SEEDED AND MULCHED IMMEDIATELY AFTER ROCK CHECK DAM REMOVAL.



SPACING BETWEEN DITCH CHECK



CROSS SECTION A-A THRU STONE DITCH CHECK



NOTE:
ROCK CHECK TO BE REMOVED BY GRADING CONTRACTOR AFTER CONSTRUCTION IS COMPLETE AND GRASSING IS ESTABLISHED

TYPICAL DITCH CHECK SECTION

SC-4 ROCK DITCH CHECK

NO SCALE

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UTILITY WARNING:
The underground utilities shown have been located from field survey information and existing drawings. The engineer makes no guarantee that the underground utilities shown comprise all such utilities in the area, either in service or abandoned. The engineer further does not warrant that the underground utilities shown are in the exact location indicated although he does certify that they are located as accurately as possible from information available. The engineer has not physically located the underground utilities.

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CLIENT: USC AIKEN, AIKEN, SOUTH CAROLINA

PROJECT NAME: PEDESTRIAN BRIDGE SIDEWALK CONNECTOR

PROJECT LOCATION: AIKEN, SOUTH CAROLINA

State of South Carolina — Registered Landscape Architect — No. 1056 — ZACHARY K. DAVIS — 8/17/16

REV.	DATE	BY	DESCRIPTION
0	08/17/16	ZKD	ISSUED FOR CONSTRUCTION

PROJECT NO.	6930.1601
DRAWN BY :	JDP
CHECKED BY :	ZKD
DATE:	08/05/16
SHEET TITLE :	NOTES AND DETAILS
SCALE:	1" = 30'
DRAWING NO.	C-102
REV.	0

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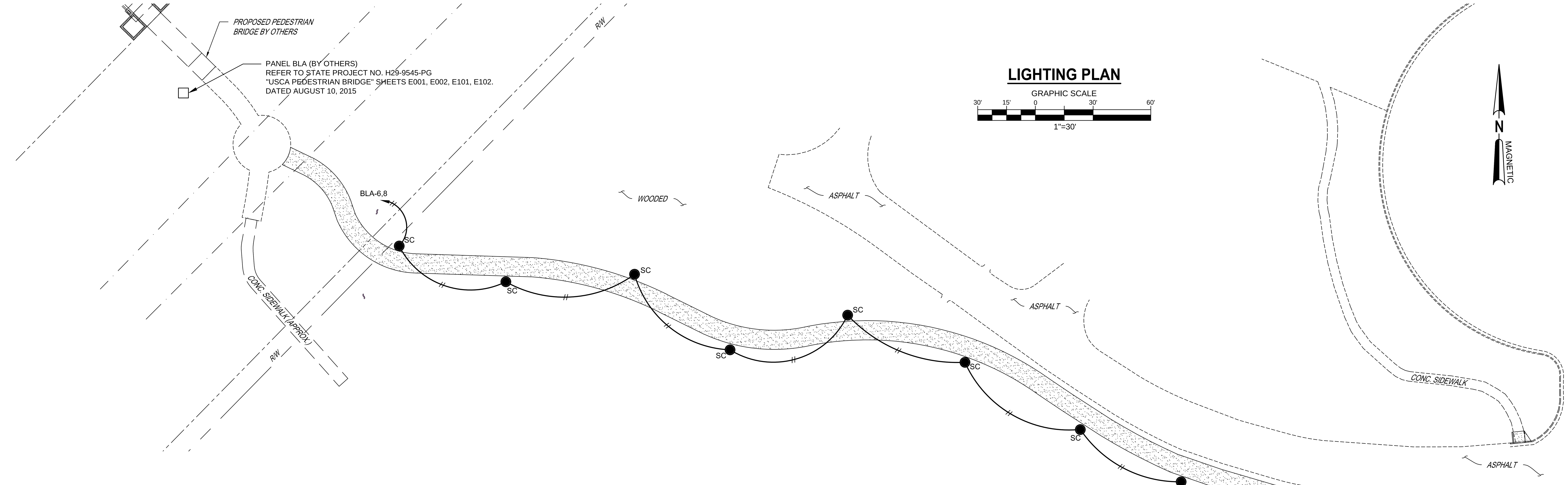
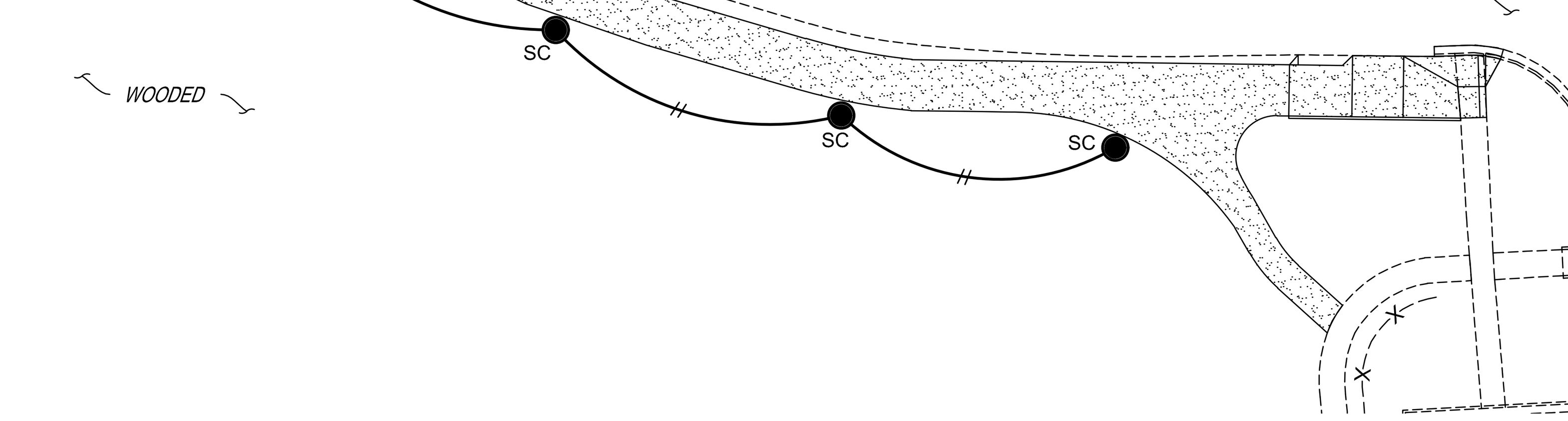
BORDER: JLA24x36-XREF.DWG REV. 04/28/2016 BLB

LIGHTING PLAN

GRAPHIC SCALE

1"=30'





ELECTRICAL SPECIFICATIONS

GENERAL - ALL WORK SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE (NFPA 70-2014) AND ALL APPLICABLE STATE AND LOCAL CODES. ALL MATERIALS SHALL BE NEW AND UL LISTED/LABELED AS APPROPRIATE. FINAL LOCATIONS FOR ROUGH-INS SHALL BE VERIFIED WITH ACTUAL EQUIPMENT BEING CONNECTED. SUPPORT AND ATTACH ELECTRICAL EQUIPMENT IN ACCORDANCE WITH SEISMIC CONDITIONS AS DETERMINED BY THE STRUCTURAL ENGINEER/BUILDING DESIGNER AND THE INTERNATIONAL BUILDING CODE 2012. AFTER COMPLETING INSTALLATION, REMOVE BURRS, DIRT, AND CONSTRUCTION DEBRIS FROM ALL ELECTRICAL WORK.

CONDUCTORS - INSULATION SHALL COMPLY WITH NEMA WC 5. CONDUCTORS #8 AWG AND LARGER SHALL BE CONCENTRIC STRANDED. #10 CONDUCTORS SHALL BE SOLID.

TYPE AND INSULATION (BRANCH): COPPER, TYPE THHN/THWN
COPPER, TYPE MC

COLOR CODING (120/240 V, 1Ø): A-BLACK, B-RED, N-WHITE, G-GREEN

RACEWAYS - CONDUIT SHALL BE 3/4". CONDUIT BODIES AND FITTINGS FOR RIGID METAL CONDUIT SHALL BE CAST THREADED TYPE. CONDUIT FITTINGS FOR ELECTRICAL METALLIC TUBING SHALL BE COMPRESSION TYPE.

OUTDOORS EXPOSED: RIGID GALVANIZED STEEL CONFORMING TO ANSI C80.5
OUTDOORS UNDERGROUND: RIGID NONMETALLIC CONDUIT (SCHEDULE 40 PVC) CONFORMING TO NEMA TC 2.

PULL AND JUNCTION BOXES - BOXES SHALL BE HOT-DIPPED GALVANIZED STEEL. BOX COVERS SHALL BE GASKETED TYPE WITH SCREWED OR BOLTED FASTENERS.

GROUNDING - GROUNDING AND BONDING COMPONENTS SHALL COMPLY WITH UL 467. AN INSULATED EQUIPMENT-GROUNDING CONDUCTOR SHALL BE INSTALLED WITH CIRCUIT CONDUCTORS FOR ALL BRANCH CIRCUITS. EXOTHERMIC-WELDED CONNECTIONS SHALL BE USED FOR ATTACHMENT TO STRUCTURAL STEEL AND UNDERGROUND CONNECTIONS. GROUNDING ELECTRODES SHALL BE 3/4" x 10' COPPERWELD TYPE.

ELECTRICAL NOTES

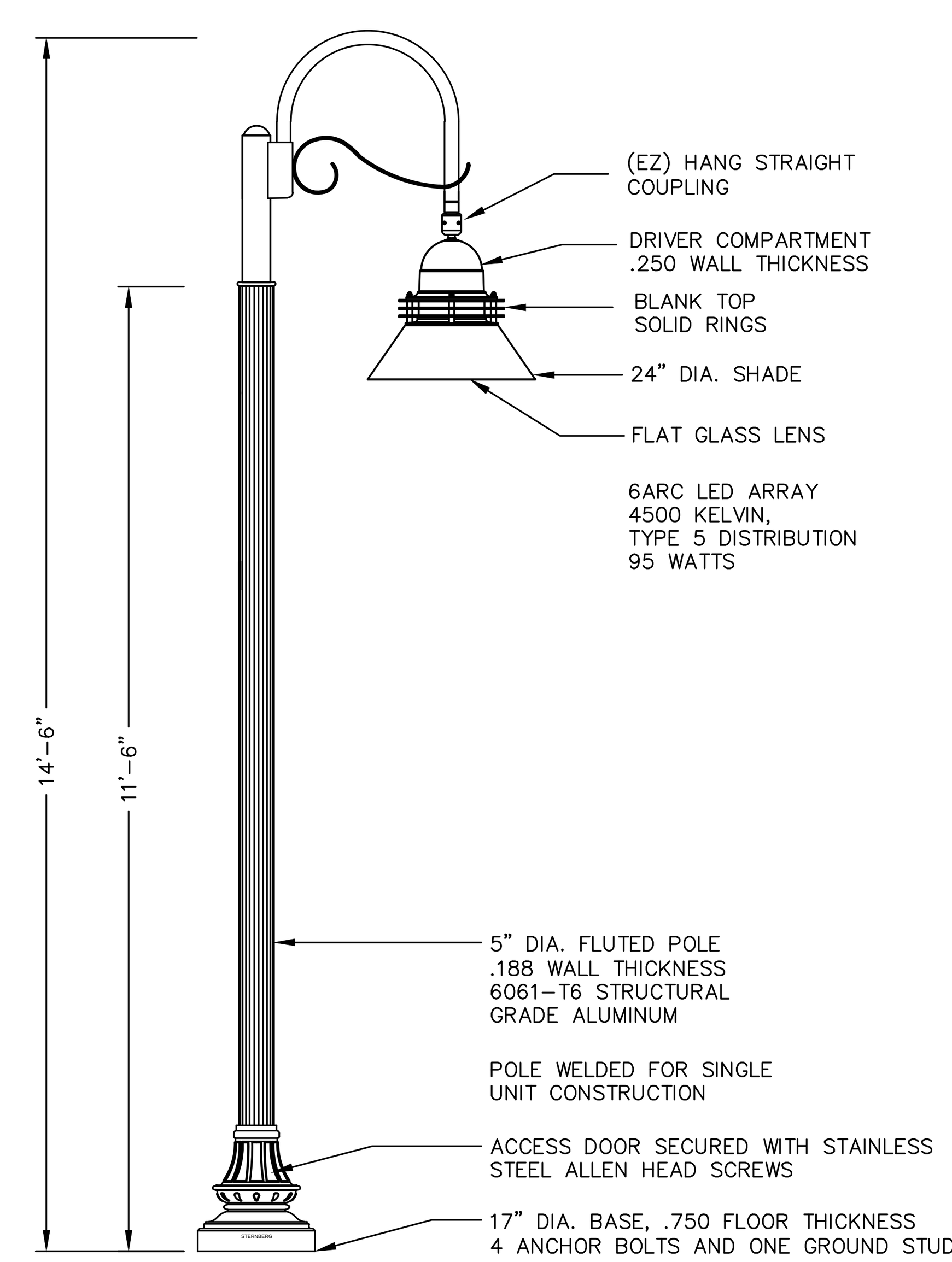
1. CONSULT MANUFACTURERS' SHOP DRAWINGS FOR REQUIREMENTS AND EXACT LOCATION OF ELECTRICAL CONNECTIONS FOR EQUIPMENT FURNISHED BY OTHERS. BRANCH CIRCUIT WIRING SHALL MEET ALL REQUIREMENTS OF THE EQUIPMENT MANUFACTURER.
2. LOCATE LIGHT POLES SUCH THAT THE CLEARANCE FROM FACE OF CONCRETE BASE TO EDGE OF SIDEWALK IS 18".
3. PROVIDE A SINGLE TWIST-LOCK RECEPTACLE WITH PHOTOCELL FOR CONTROL OF ENTIRE LIGHTING CIRCUIT. MOUNT TO POLE IN MODERATELY-SHADED AREA.
4. ROUTE CONDUIT AT MINIMUM DEPTH OF 30" BELOW GRADE.
5. COORDINATE SITE LIGHTING AND SITE UTILITIES WITH LANDSCAPING PLANS AND DETAILS.
6. DO NOT SCALE DRAWINGS. DEVICE LOCATIONS ARE APPROXIMATE UNLESS DIMENSIONED. ACTUAL DEVICE LOCATIONS SHALL BE FIELD COORDINATED WITH ALL OTHER TRADES AND APPLICABLE CODES.

SYMBOLS

●	POLE-MOUNTED LIGHT FIXTURE - SEE LIGHT FIXTURE SCHEDULE.
—//→ A-1	UNDERGROUND RACEWAY - TICK MARKS INDICATE NO. OF WIRES. ARROW SHOWS HOME RUN. SUBSCRIPT INDICATES PANEL AND CIRCUIT NUMBER.

* * NOTE * *

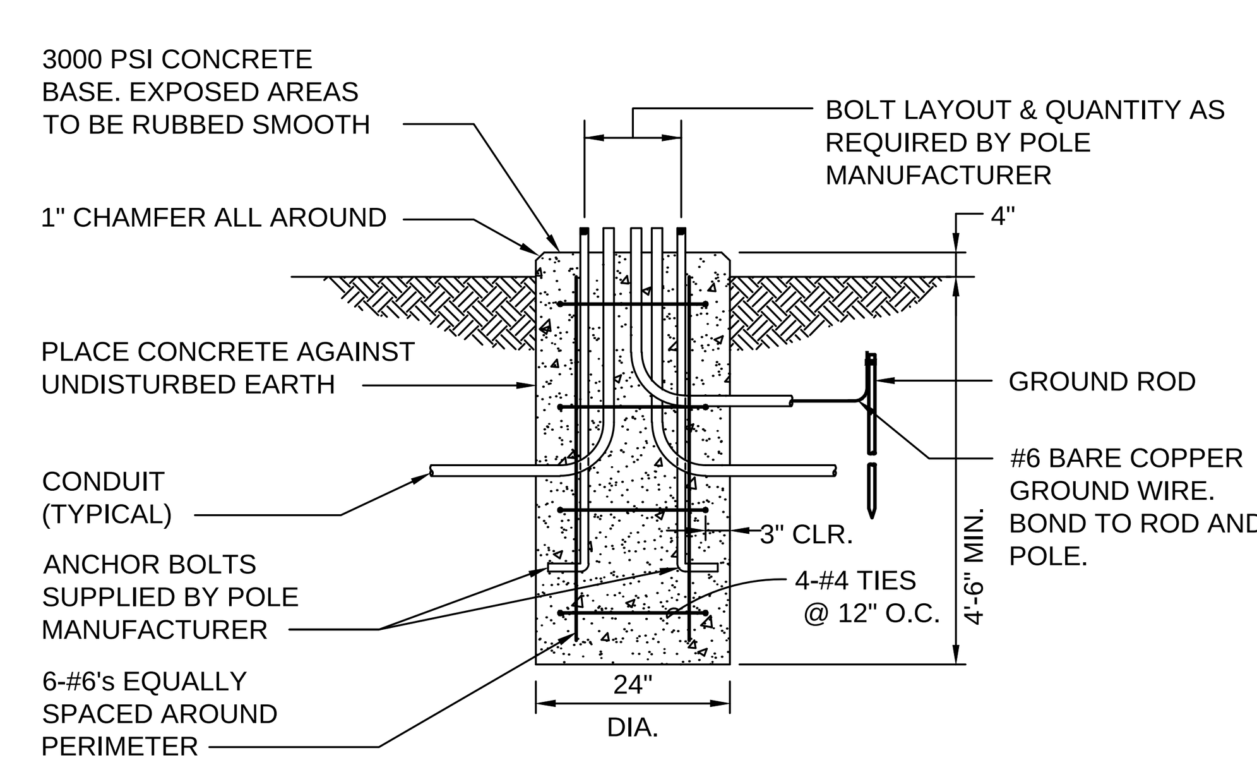
ADDITIONAL GREEN GROUND WIRE SHALL BE PROVIDED FOR ALL BRANCH CIRCUITS IN ADDITION TO WIRES INDICATED BY SYMBOL ON PLANS.



1 / E-101 DETAIL

POLE ASSEMBLY - TYPE SC FIXTURE

SCALE: NOT TO SCALE



2 / E-101 DETAIL

CONCRETE BASE AND ANCHOR BOLT

SCALE: NOT TO SCALE

LIGHTING FIXTURE SCHEDULE

ID	MANUFACTURER	MODEL NO.	VOLTAGE	INPUT WATTAGE	LAMP TYPE	MOUNTING	REMARKS
SC	STERNBERG	1970LED-S BTSR/FG/ONPT/EZ 4212FP5/RCC/6ARC45T5/MDL03/BK	240	110W	LED	POLE	POLE FINISH TO MATCH EXISTING CAMPUS STANDARD.

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CLIENT: USC AIKEN
AIKEN, SOUTH CAROLINA

PROJECT NAME: PEDESTRIAN BRIDGE SIDEWALK CONNECTOR

PROJECT LOCATION: AIKEN, SOUTH CAROLINA

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 31775 ROGER L. BLUE 8/17/16

REV.	DATE	BY	DESCRIPTION
0	08/17/16	RLB	ISSUED FOR CONSTRUCTION

PROJECT NO.	6930.1601
DRAWN BY :	JAG
CHECKED BY :	RLB
DATE:	08/15/16

SHEET TITLE : **LIGHTING PLAN**

SCALE: 1" = 30' U.N.O.

DRAWING NO. **E-101** REV. **0**

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BORDER: JLA24x36-XREF.DWG REV. 04/28/2016 BLB