

# USC - AIKEN

471 University Parkway, Aiken, South Carolina 29801

# USC Aiken Pedestrian Safety Improvements

## Project No. H29-I332

### PROJECT DATA

OWNER/DEVELOPER:

**USC - Aiken**  
471 University Parkway  
Aiken, SC 29801  
(803) 641-2856

ZONING:.....RUD

PARCEL NO. & TAX MAP.....087-15-01-008

AREA OF PROPERTY.....62.07 ACRES

DISTURBED AREA.....0.71 ACRES  
(AREA OF CONSTRUCTION)

IMPERVIOUS AREA OF.....0.15 ACRES  
PROPOSED IMPROVEMENTS

DRAINAGE BASIN.....SAND RIVER

USC-Aiken

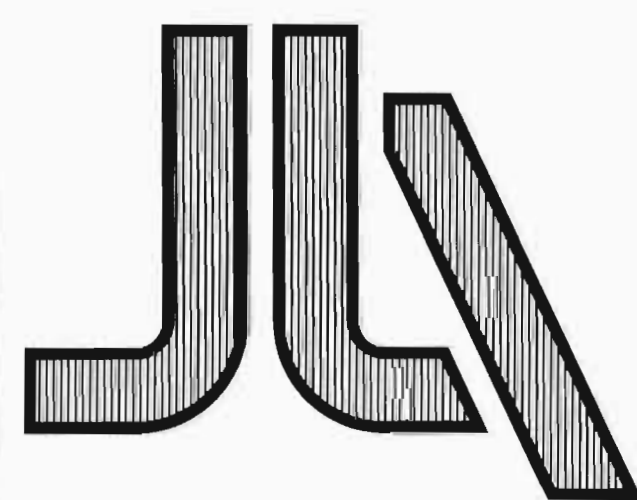


**LOCATION MAP**  
SCALE 1" = 2000'

### DRAWING INDEX

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NOTE:  
ALL HANDICAP ACCESSIBILITY STANDARDS WILL  
MEET THE MOST CURRENT ADA ACCESSIBILITY  
GUIDELINES FOR BUILDINGS AND FACILITIES.



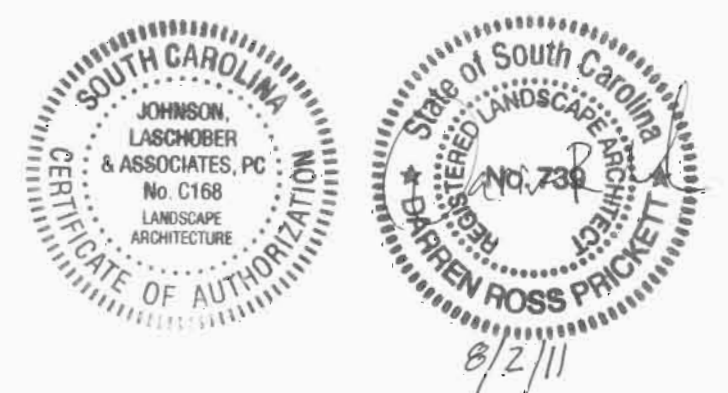
# JOHNSON, LASCHOBER & ASSOCIATES, P.C.

1296 BROAD STREET  
TEL: (706) 724-5756

P.O. BOX 2103

AUGUSTA, GEORGIA 30901  
FAX: (706) 724-3955

## ARCHITECTS • ENGINEERS • LANDSCAPE ARCHITECTS



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**LAND GRADING FOR MINIMIZING EROSION**

1. ONLY DISTURB, CLEAR, OR GRADE AREAS NECESSARY FOR CONSTRUCTION. FLAG OR OTHERWISE DELINEATE AREAS NOT TO BE DISTURBED. EXCLUDE VEHICLES AND CONSTRUCTION EQUIPMENT FROM THESE AREAS TO PRESERVE NATURAL VEGETATION.
2. ALL GRADED OR DISTURBED AREAS INCLUDING SLOPES SHALL BE PROTECTED DURING CLEARING AND CONSTRUCTION IN ACCORDANCE WITH THE APPROVED EROSION & SEDIMENT CONTROL PLAN UNTIL THEY ARE PERMANENTLY STABILIZED. ALL SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN AND ACCORDING TO THE STANDARDS & SPECIFICATIONS FOR THE APPROPRIATE EROSION CONTROL PRACTICES.
3. IF TOPSOIL IS REQUIRED FOR THE ESTABLISHMENT OF VEGETATION, IT SHALL BE STOCKPILED IN THE AMOUNT NECESSARY TO COMPLETE FINISHED GRADING AND PROTECTED FROM EROSION DURING THE INTERIM.
4. AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL, AND STRIPPED OF TOPSOIL.
5. AREAS TO RECEIVE TOPSOIL SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 INCHES (76 MM) PRIOR TO PLACEMENT OF TOPSOIL.
6. ALL FILLS SHALL BE COMPACTED AS REQUIRED BY BUILDING STANDARDS TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE AND OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES, CONDUITS, ETC., SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
7. THE OUTER FACE OF THE FILL SLOPE SHOULD BE ALLOWED TO STAY LOOSE, NOT ROLLED, COMPACTED, OR BLADED SMOOTH. A BULLDOZER MAY RUN UP AND DOWN THE FILL SLOPE SO THE DOZER TREADS (CLEAT TRACKS) CREATE GROOVES PERPENDICULAR TO THE SLOPE. IF THE SOIL IS NOT TOO MOIST, EXCESSIVE COMPACTION WILL NOT OCCUR.
8. ALL FILL SHALL BE PLACED AND COMPACTED IN LAYERS NOT TO EXCEED 8 INCHES (0.2 M) PER LIFT.
9. USE SLOPE BREAKS, SUCH AS DIVERSIONS, BENCHES, OR CONTOUR FURROWS AS APPROPRIATE, TO REDUCE THE LENGTH OF CUT-AND-FILL SLOPES TO LIMIT SHEET AND RILL EROSION AND PREVENT GULLY EROSION.
10. THE FINISHED CUT-AND-FILL SLOPES, WHICH ARE TO BE VEGETATED WITH GRASS AND LEGUMES, SHOULD NOT BE STEEPER THAN 2:1.
11. SLOPES TO BE MAINTAINED BY TRACTOR OR OTHER EQUIPMENT SHOULD NOT BE STEEPER THAN 3:1.
12. SLOPES IN EXCESS OF 3:1 MAY REQUIRE HYDROSEEDING, HYDROMULCHING, TACKIFYING, AND/OR "PUNCHING-IN" STRAW, BIOENGINEERING TECHNIQUES, OR RETAINING WALLS.
13. ROUGHEN THE SURFACE OF ALL SLOPES DURING THE CONSTRUCTION OPERATION TO RETAIN WATER, INCREASE INFILTRATION, AND FACILITATE VEGETATION ESTABLISHMENT.
14. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH APPROVED METHODS.
15. STABILIZE ALL GRADED AREAS WITH VEGETATION, CRUSHED STONE, RIPRAP, OR OTHER GROUND COVER AS SOON AS GRADING IS COMPLETED OR IF WORK IS INTERRUPTED FOR 21 WORKING DAYS OR MORE.
16. USE MULCH TO STABILIZE AREAS TEMPORARILY WHERE FINAL GRADING MUST BE DELAYED.
17. STOCKPILES, BORROW AREAS AND SOIL AREAS SHALL BE SHOWN ON THE PLANS AND SHALL BE STABILIZED TO PREVENT EROSION AND SEDIMENTATION.

**LEGEND:**

EXISTING	PROPOSED
BLDG. STRUCTURE	
SPOT ELEVATION	
TREE LINE	
CONTOUR	
SANITARY SEWER	
STORM DRAIN	
POTABLE WATER	
OVERHEAD POWER	
DITCH/SWALE	
FENCE	
DIRECTION OF SURFACE DRAINAGE	

**MAINTENANCE STATEMENT**  
 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 SEDIMENT SOURCE.

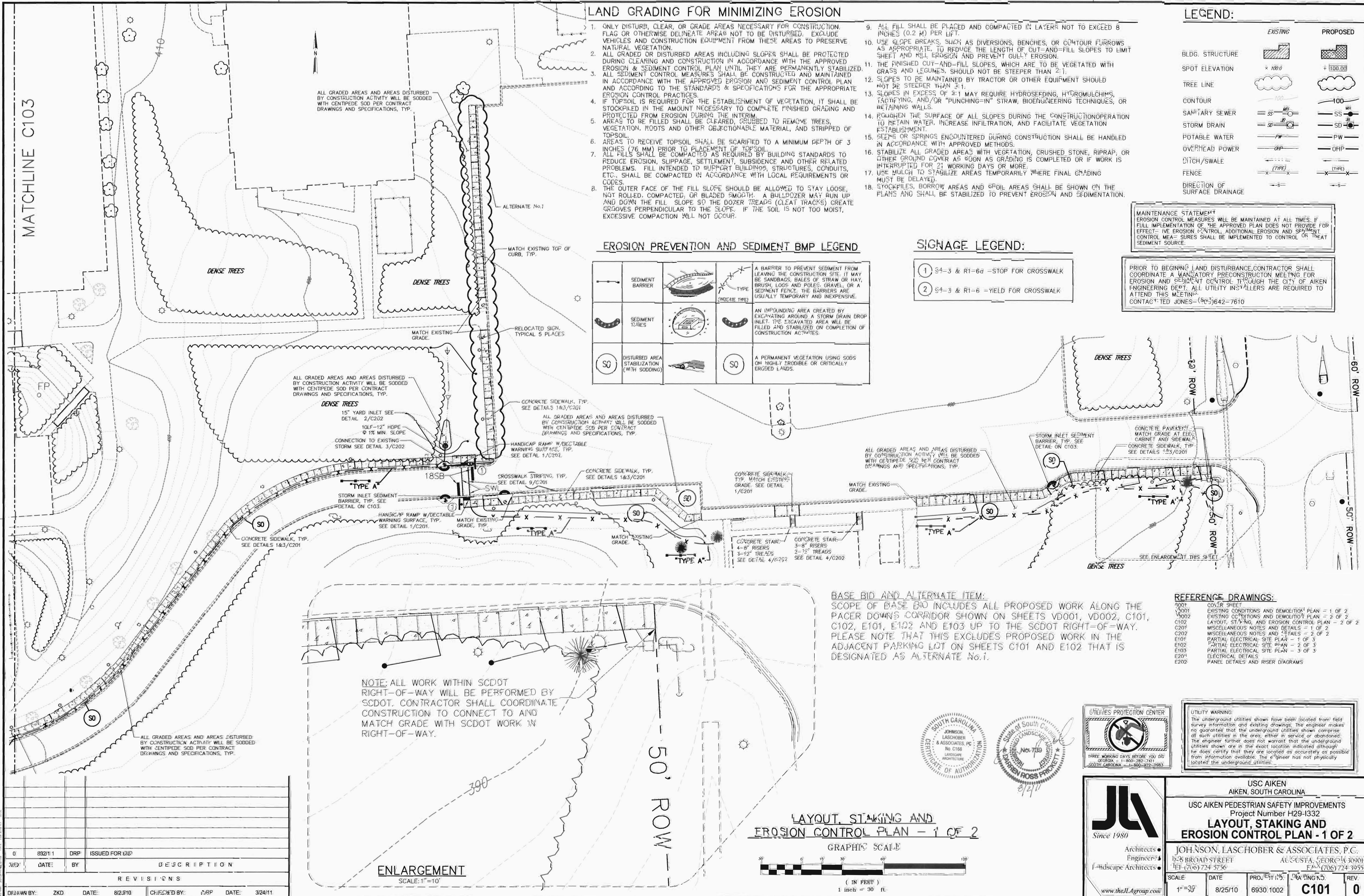
**PRIOR TO BEGINNING LAND DISTURBANCE, CONTRACTOR SHALL COORDINATE A MANDATORY PRECONSTRUCTION MEETING FOR EROSION AND SEDIMENT CONTROL THROUGH THE CITY OF AIKEN ENGINEERING DEPT. ALL UTILITY INSTALLERS ARE REQUIRED TO ATTEND THIS MEETING.**  
 CONTACT: TED JONES - (803) 642-7610

**EROSION PREVENTION AND SEDIMENT BMP LEGEND**

	SEDIMENT BARRIER		SEDIMENT TUBES
	DISTURBED AREA STABILIZATION (WITH SODDING)		IMPOUNDING AREA
	PERMANENT VEGETATION		BARRIER

**SIGNAGE LEGEND:**

- 1 S4-3 & R1-6a - STOP FOR CROSSWALK
- 2 S4-3 & R1-6 - YIELD FOR CROSSWALK



REV	DATE	BY	DESCRIPTION
0	8/22/11	DRP	ISSUED FOR BID

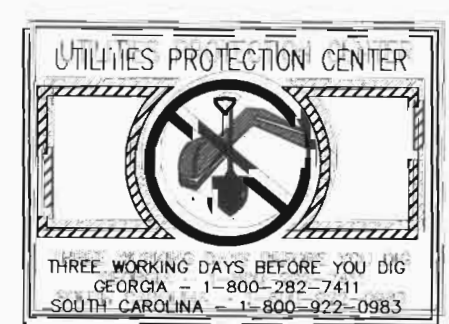
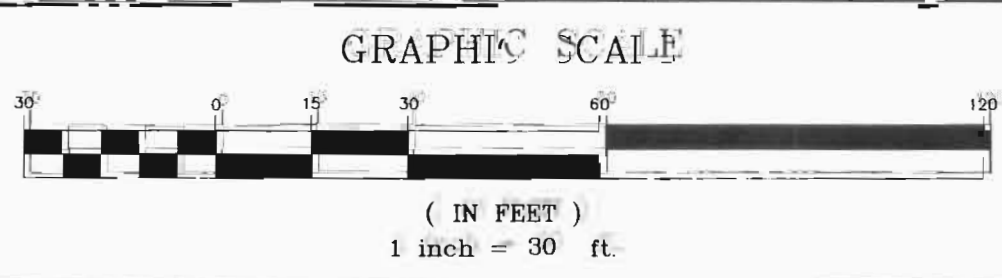
REVISIONS			
DATE	BY	CHECKED BY	DATE
8/22/10	ZKD	DRP	3/24/11

**BASE BID AND ALTERNATE ITEM:**  
 SCOPE OF BASE BID INCLUDES ALL PROPOSED WORK ALONG THE PACER DOWNS CORRIDOR SHOWN ON SHEETS VD001, VD002, C101, C102, E101, E102 AND E103 UP TO THE SCDOT RIGHT-OF-WAY. PLEASE NOTE THAT THIS EXCLUDES PROPOSED WORK IN THE ADJACENT PARKING LOT ON SHEETS C101 AND E102 THAT IS DESIGNATED AS ALTERNATE No.1.

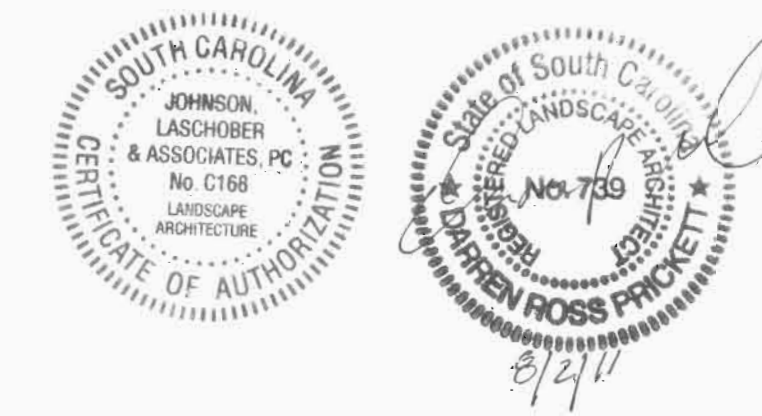
- REFERENCE DRAWINGS:**
- V001 COVER SHEET
  - V002 EXISTING CONDITIONS AND DEMOLITION PLAN - 1 OF 2
  - V003 EXISTING CONDITIONS AND DEMOLITION PLAN - 2 OF 2
  - C102 LAYOUT, STAKING, AND EROSION CONTROL PLAN - 1 OF 2
  - C101 MISCELLANEOUS NOTES AND DETAILS - 1 OF 2
  - C202 MISCELLANEOUS NOTES AND DETAILS - 2 OF 2
  - E101 PARTIAL ELECTRICAL SITE PLAN - 1 OF 3
  - E102 PARTIAL ELECTRICAL SITE PLAN - 2 OF 3
  - E103 PARTIAL ELECTRICAL SITE PLAN - 3 OF 3
  - E201 ELECTRICAL DETAILS
  - E202 PANEL DETAILS AND RISER DIAGRAMS

**NOTE:** ALL WORK WITHIN SCDOT RIGHT-OF-WAY WILL BE PERFORMED BY SCDOT. CONTRACTOR SHALL COORDINATE CONSTRUCTION TO CONNECT TO AND MATCH GRADE WITH SCDOT WORK IN RIGHT-OF-WAY.

**LAYOUT, STAKING AND EROSION CONTROL PLAN - 1 OF 2**



**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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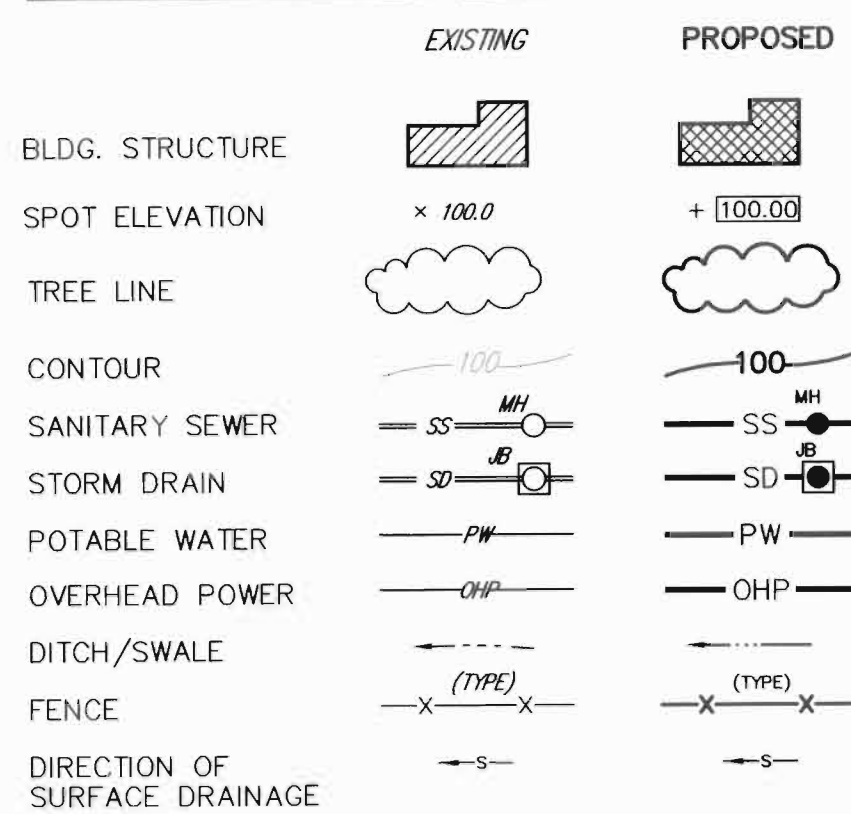
**JOHNSON, LASCHOBER & ASSOCIATES, P.C.**  
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 AUSTIN, TEXAS 78701  
 TEL: (786) 724-5756 FAX: (706) 724-3955

USC AIKEN  
 AIKEN, SOUTH CAROLINA  
 USC AIKEN PEDESTRIAN SAFETY IMPROVEMENTS  
 Project Number H29-1332  
**LAYOUT, STAKING AND EROSION CONTROL PLAN - 1 OF 2**

SCALE: 1"=30'  
 DATE: 8/25/10  
 PROJECT NO: 6930-1002  
 SHEET NO: **C101**  
 REV: **0**

CAPFILE: AAKS11.DWG REV: 10/27/07 09E  
 D:\PROJECTS\11000\11000\11000\CAD\11000\C101.dwg Plotted: 8/25/2011 9:33 AM 3/2 Zachary Davis, RLA

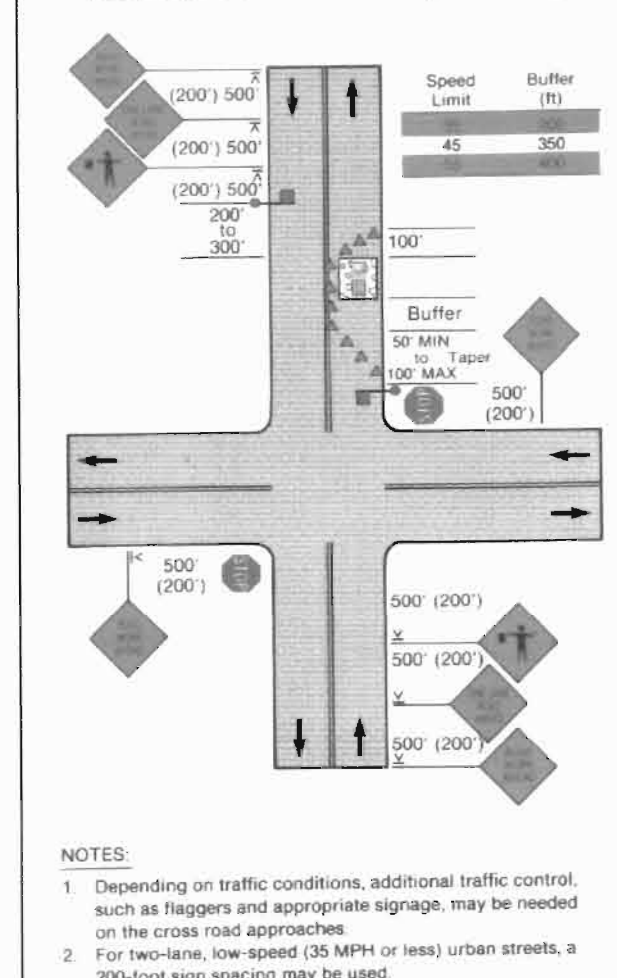
**LEGEND:**



**GENERAL NOTES**

- THIS PLAN IS NOT TO BE RECORDED.
- BOUNDARY AND TOPOGRAPHIC INFORMATION FURNISHED BY USCA AND STAR SURVEY, DATED 3/2/2010 FOR JOHNSON, LASCHNER, AND ASSOCIATES.
- ALL ELEVATIONS ARE BASED ON MEAN SEA LEVEL.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR NOTIFYING THE AUTHORITY HAVING JURISDICTION ENGINEERING SERVICES AND WATER & SEWER DEPARTMENT 48 HOURS PRIOR TO CONSTRUCTION.
- ALL CONSTRUCTION, INCLUDING WATER & SEWER, SHALL CONFORM TO USC-AIKEN AND AUTHORITIES HAVING JURISDICTION STANDARDS AND SPECIFICATIONS.
- ALL DISTURBED AREAS WILL BE GRASSED ACCORDING TO PLANS.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING ALL SOIL EROSION SEDIMENT CONTROL DEVICES DURING THE COURSE OF CONSTRUCTION.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING THE LOCATING AND RELOCATION OF ALL UTILITIES AS NECESSARY WITH THE RESPECTIVE UTILITY COMPANIES.
- ALL FILL MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED 8" & COMPACTED TO 90% MAX. DRY DENSITY MOD. PROCTOR.
- ALL PUBLIC BUILDINGS AND COMMERCIAL OR RESIDENTIAL IRRIGATION LINES SHALL BE PROTECTED BY TESTABLE BACKFLOW PREVENTION DEVICES IN ACCORDANCE W/DHCC REGULATIONS.
- THE CONTRACTOR WILL COORDINATE THE WORK WITH THE UTILITY COMPANIES AND WILL VERIFY ALL EXISTING PIPE INVERTS AND EXISTING ROAD ELEVATIONS PRIOR TO CONSTRUCTION.
- DEVELOPERS AND/OR CONTRACTORS ARE RESPONSIBLE TO REMOVE OR CLEAN OUT ANY SILT, DIRT, MUD OR ANY OTHER TYPE OF DEBRIS THAT COMES OFF THEIR SITE AND FINDS ITS WAY INTO A PRIVATE POND OR A CITY OWNED POND. THEY ARE RESPONSIBLE TO REMOVE ANY OF THE ABOVE MENTIONED ITEMS THAT COME OFF THEIR SITE ONTO PRIVATE OR CITY OWNED PROPERTIES TO INCLUDE RIGHTS-OF-WAY.
- ALL CONSTRUCTION MUST CONFORM TO STANDARDS AND SPECIFICATIONS OF AUTHORITIES HAVING JURISDICTION.
- SUBMITTALS MUST BE SENT TO THE LANDSCAPE ARCHITECT/ENGINEER ON ALL MATERIALS TO BE USED.
- IF THE CONTRACTOR INTENDS TO USE CITY WATER FROM AN EXISTING FIRE HYDRANT FOR CONSTRUCTION, A PERMIT SHALL BE REQUIRED FROM THE PUBLIC WORKS DEPARTMENT. CALL 642-7617 TO COORDINATE THE PERMIT.
- SLOPES WHICH EXCEED 8 VERTICAL FEET AND ARE GREATER THAN A 4:1 SHALL BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS IN ADDITION TO HYDROSEEDING.

**Lane Closure Beyond Intersection**  
(Stop Signs on East/West Approaches)

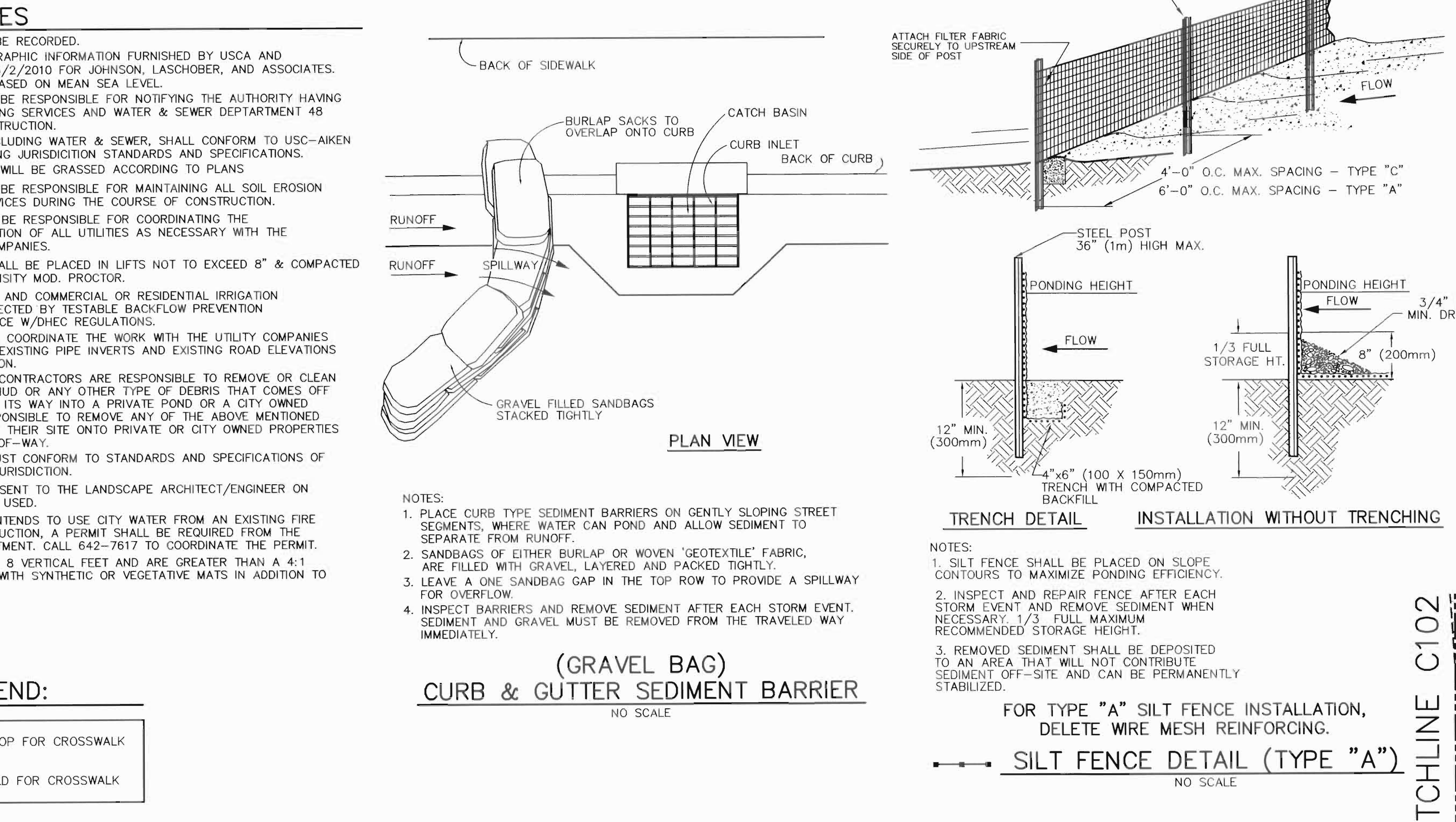
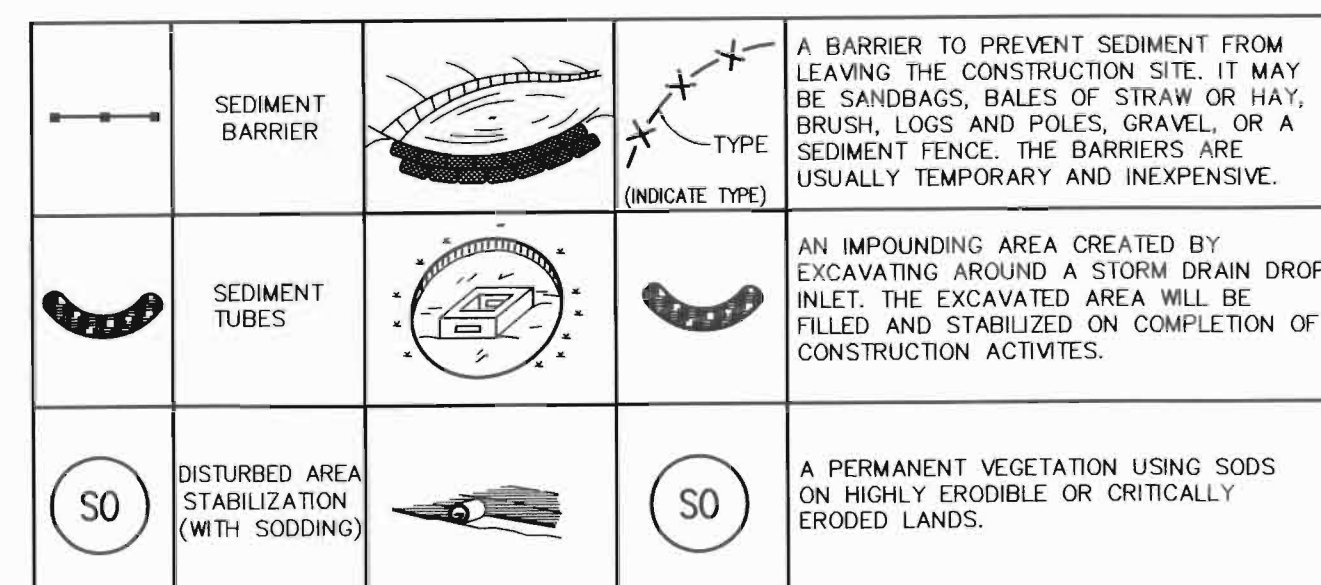


**TRAFFIC CONTROL**

**REFERENCE DRAWINGS:**

- |      |  |
|------|--|
| G001 | COVER SHEET  |
| V001 | EXISTING CONDITIONS AND DEMOLITION PLAN - 1 OF 2   |
| V002 | EXISTING CONDITIONS AND DEMOLITION PLAN - 2 OF 2   |
| C101 | LAYOUT, STAKING, AND EROSION CONTROL PLAN - 1 OF 2 |
| C201 | MISCELLANEOUS NOTES AND DETAILS - 1 OF 2           |
| C202 | MISCELLANEOUS NOTES AND DETAILS - 2 OF 2           |
| E101 | PARTIAL ELECTRICAL SITE PLAN - 1 OF 3              |
| E102 | PARTIAL ELECTRICAL SITE PLAN - 2 OF 3              |
| E103 | PARTIAL ELECTRICAL SITE PLAN - 3 OF 3              |
| E201 | ELECTRICAL DETAILS                                 |
| E202 | PANEL DETAILS AND RISER DIAGRAMS                   |

**EROSION PREVENTION AND SEDIMENT BMP LEGEND**



**SIGNAGE LEGEND:**

- |   |                                   |
|---|-----------------------------------|
| ① | S4-3 & R1-6a - STOP FOR CROSSWALK |
| ② | S4-3 & R1-6 - YIELD FOR CROSSWALK |

**(GRAVEL BAG)  
CURB & GUTTER SEDIMENT BARRIER**  
NO SCALE

**TRENCH DETAIL      INSTALLATION WITHOUT TRENCHING**

- NOTES:
- SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
  - INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY 1/3 FULL MAXIMUM RECOMMENDED STORAGE HEIGHT.
  - REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

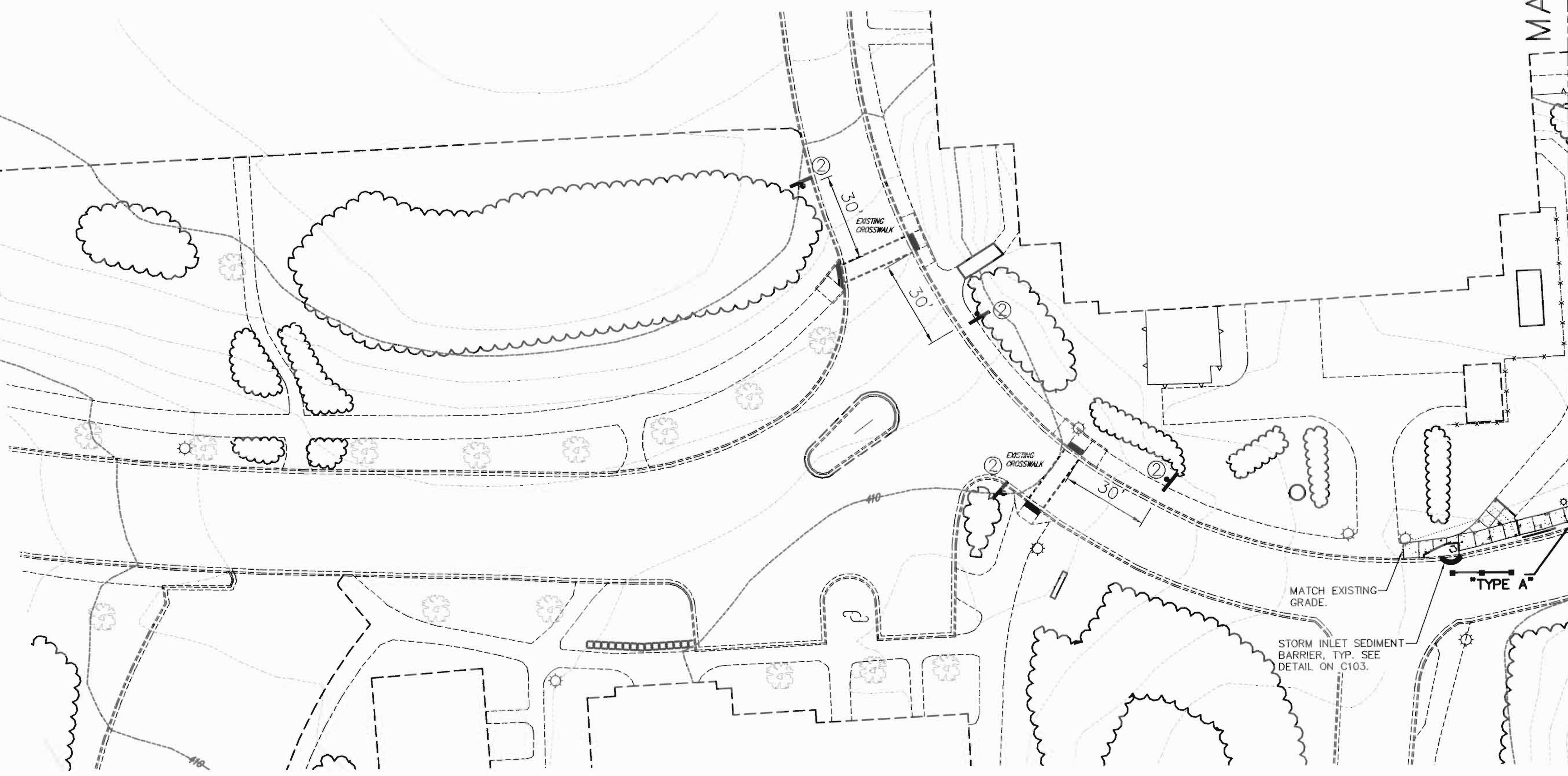
FOR TYPE "A" SILT FENCE INSTALLATION, DELETE WIRE MESH REINFORCING.

**SILT FENCE DETAIL (TYPE "A")**  
NO SCALE

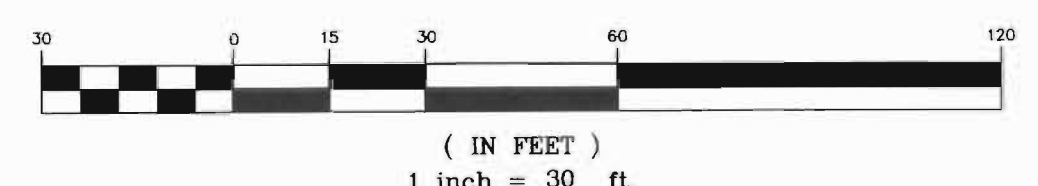
- NOTES:
- PLACE CURB TYPE SEDIMENT BARRIERS ON GENTLY SLOPING STREET SEGMENTS WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.
  - SANDBAGS, OF EITHER BURLAP OR WOVEN GEOTEXTILE FABRIC, ARE FILLED WITH GRAVEL, LAYERED AND PACKED TIGHTLY.
  - LEAVE ONE SANDBAG GAP IN THE TOP ROW TO PROVIDE A SPILLWAY FOR OVERFLOW.
  - INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT. SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.

**CURB INLET SEDIMENT BARRIER (SANDBAGS)**  
NO SCALE

**BASE BID AND ALTERNATE ITEM:**  
SCOPE OF BASE BID INCLUDES ALL PROPOSED WORK ALONG THE PACER DOWNS CORRIDOR SHOWN ON SHEETS VD001, VD002, C101, C102, E101, E102 AND E103 UP TO THE SCDOT RIGHT-OF-WAY. PLEASE NOTE THAT THIS EXCLUDES PROPOSED WORK IN THE ADJACENT PARKING LOT ON SHEETS C101 AND E102 THAT IS DESIGNATED AS ALTERNATE No.1.



**LAYOUT, STAKING AND EROSION CONTROL PLAN - 2 OF 2**  
GRAPHIC SCALE



**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.

REV	DATE	BY	DESCRIPTION
0	8/02/11	DRP	ISSUED FOR BID
REVISIONS			

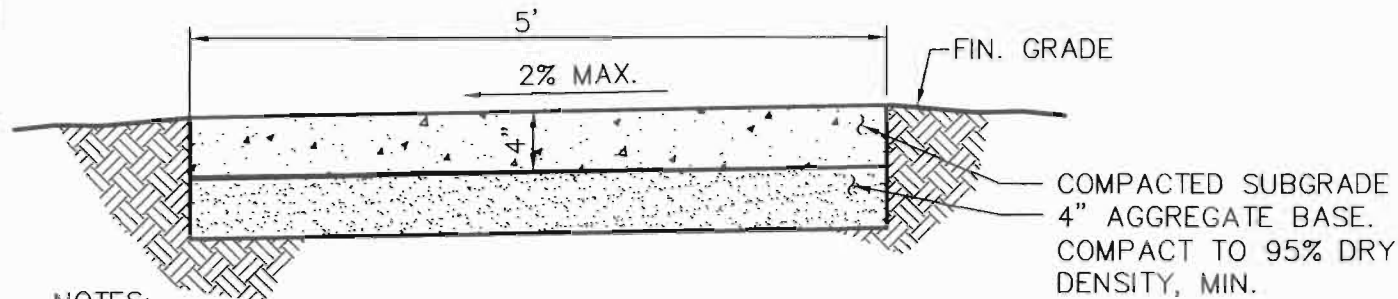
DRAWN BY: ZKD      DATE: 8/25/10      CHECKED BY: DRP      DATE: 3/24/11

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USC AIKEN  
AIKEN, SOUTH CAROLINA  
USC AIKEN PEDESTRIAN SAFETY IMPROVEMENTS  
Project Number H29-1332  
**LAYOUT, STAKING AND EROSION CONTROL PLAN - 2 OF 2**

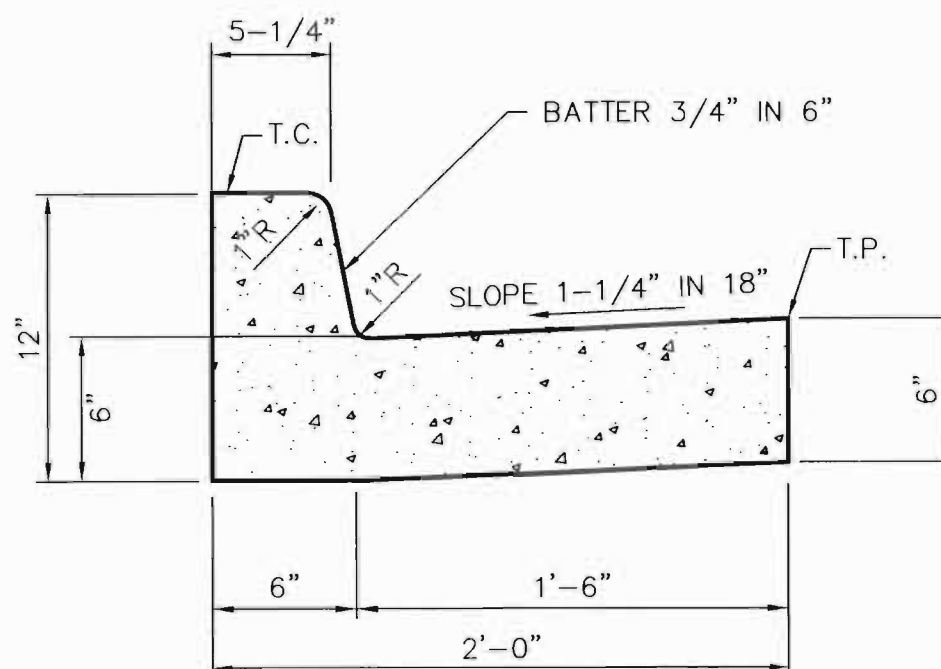
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1296 BROAD STREET      AUGUSTA, GEORGIA 30901  
TEL (706) 724-5756      FAX (706) 724-3955

SCALE	DATE	PROJECT NO.	DRAWING NO.	REV.
1"=30'	8/25/10	6930.1002	<b>C102</b>	<b>0</b>

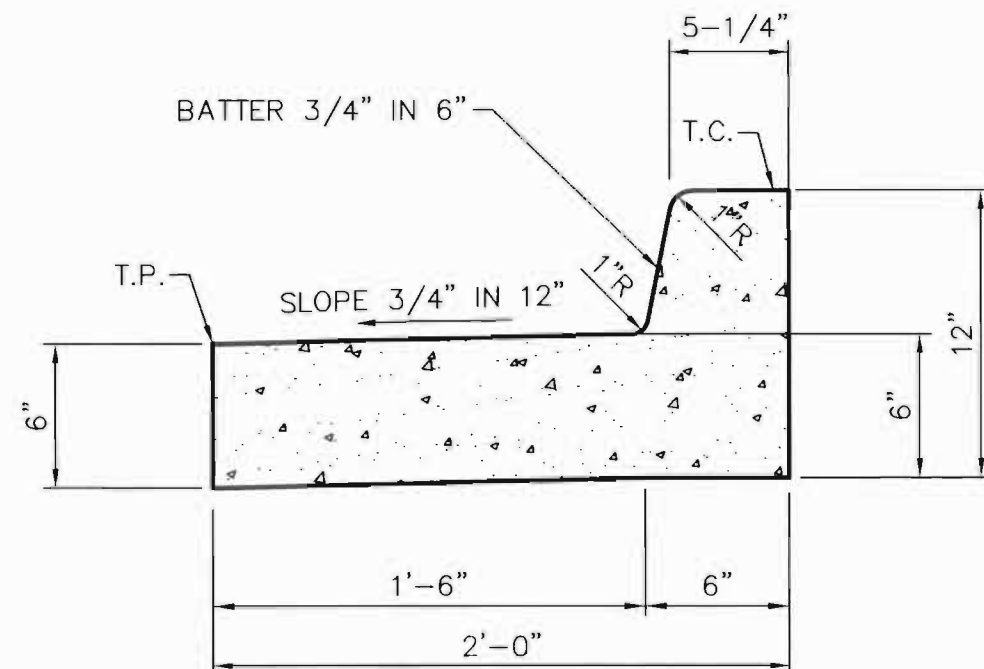


- NOTES:
1. ALL SIDEWALKS SHALL BE 4" THICK.
  2. CONTRACTION JOINTS SHALL BE PLACED AT 5'-0" INTERVALS.
  3. CONTRACTION JOINTS SHALL BE 1" DEEP AND EDGED WITH 1/8" RADIUS.
  4. CONSTRUCT 1/4" EXP. JOINT MAXIMUM 50 FT. SPACING BETWEEN JOINTS.
  5. INSTALL 1/2" EXP. MATERIAL WHERE CONC. SIDEWALKS ABUT CONCRETE STRUCTURES.
  6. A LAYER OF 15# FELT IS REQUIRED BETWEEN WALK AND ADJACENT PARALLELING CONCRETE CURB.
  7. ALL CONCRETE SHALL BE 3,000 PSI.

**1 CONCRETE SIDEWALK**  
C201 NO SCALE



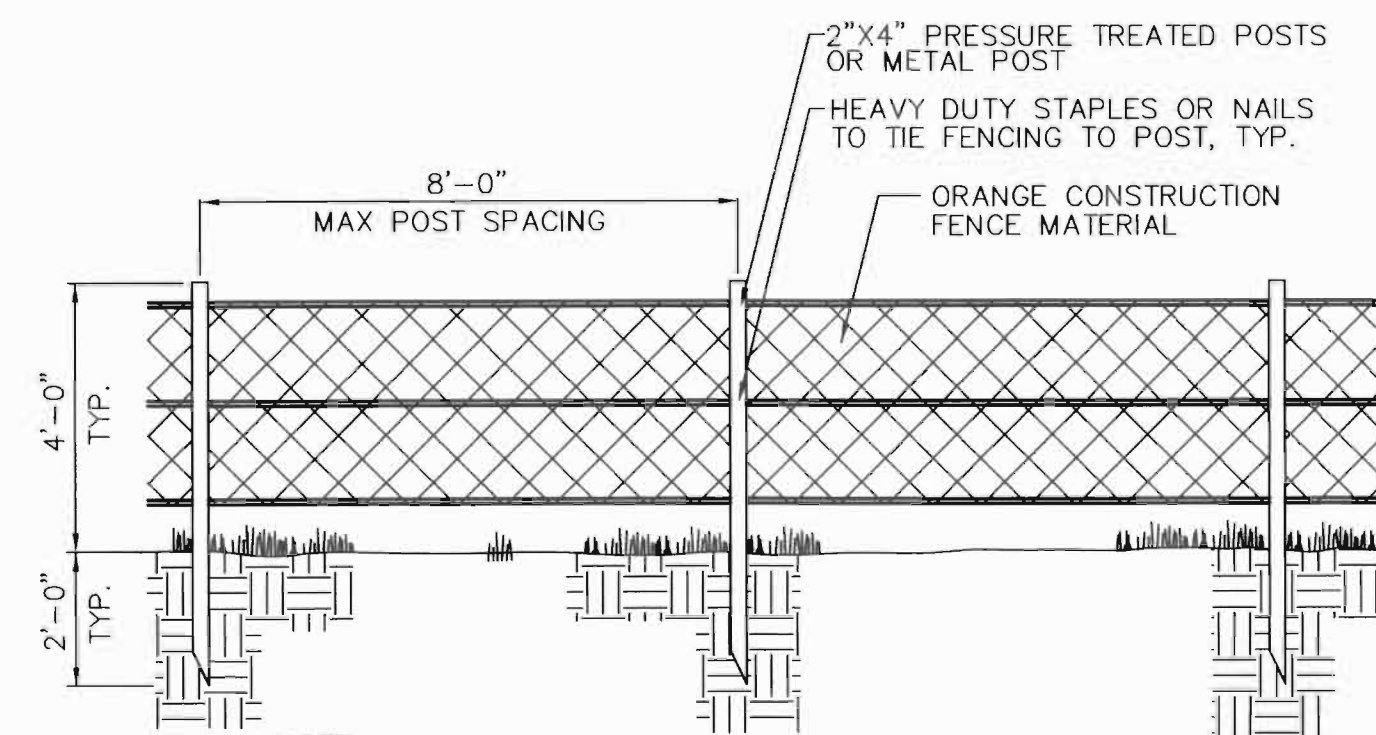
NORMAL GUTTER (HOLD TYPE)



PITCHED GUTTER (SPILL TYPE)  
(REVERSED SLOPE)

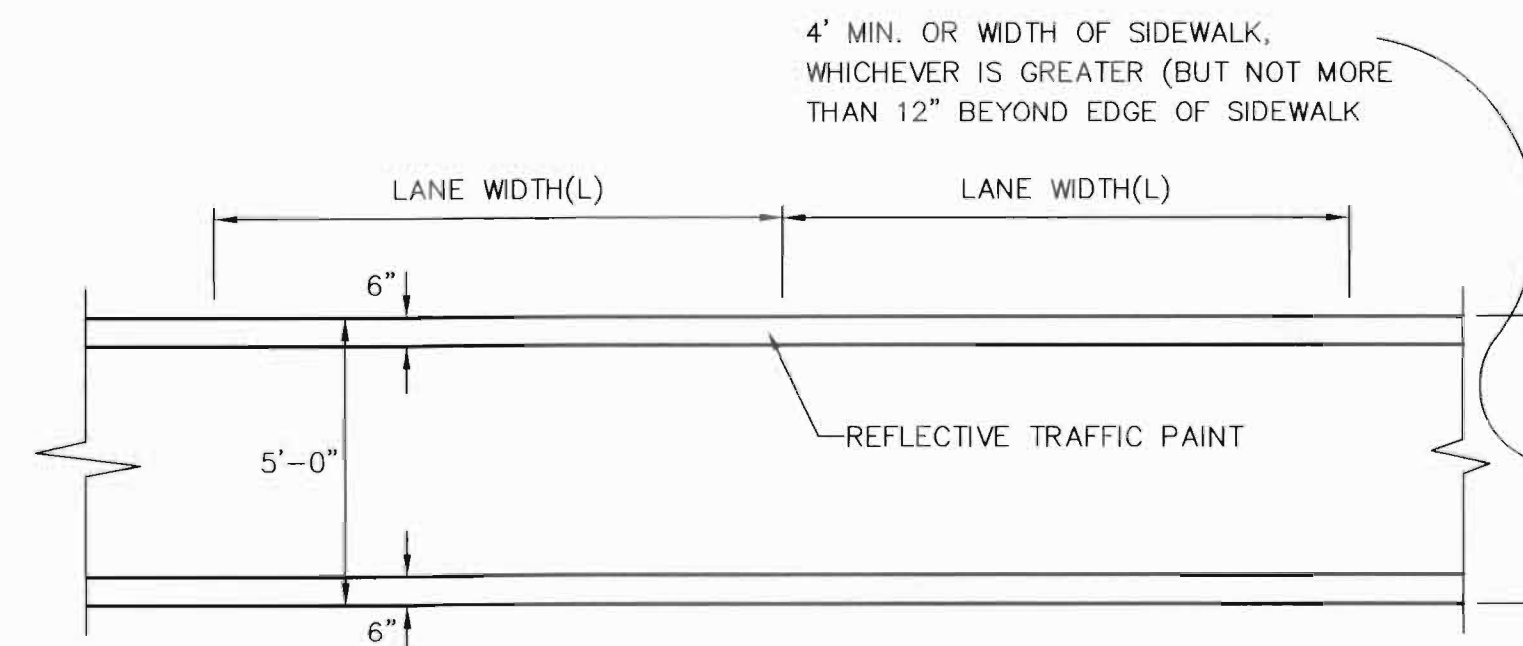
- NOTES:
1. EXPANSION JOINTS LOCATED AT ALL RADIUS POINTS, TRAPS, COLD JOINTS OR INTERVALS NOT TO EXCEED 50'
  2. CONTRACTION JOINTS AT 10' INTERVALS.
  3. SUBBASE COMPACTED TO 95% MAX. DRY DENSITY AT MODIFIED PROCTOR BEFORE PLACING CONCRETE.
  4. SUBBASE TO BE INSPECTED BY QUALIFIED INDEPENDENT TESTING AND INSPECTING AGENCY BEFORE PLACING THE CONCRETE. SEE FIELD QUALITY CONTROL SPECIFICATIONS SHEET C202.
  5. BASE MATERIAL TO ALSO BE PLACED, COMPACTED TO 95% MAX. DRY DENSITY AT MODIFIED PROCTOR AND INSPECTED PRIOR TO SETTING FORMS.
  6. SUBBASE AND BASE TO MEET SPECIFICATIONS ON SHEET C202.

**5 CONCRETE CURB & GUTTER DETAIL**  
C201 NO SCALE



NOTE:  
COORDINATE THE INSTALLATION OF TREE PROTECTION WITH EXISTING CONDITIONS AND DEMOLITION PLAN.  
NOTE: TREE PROTECTION FENCING MUST BE INSTALLED PRIOR TO AND MAINTAINED THROUGHOUT THE LAND DISTURBANCE PROCESS. FENCING SHALL NOT BE REMOVED UNTIL ALL LANDSCAPING IS INSTALLED.

**8 TREE PROTECTION**  
C201 NOT TO SCALE

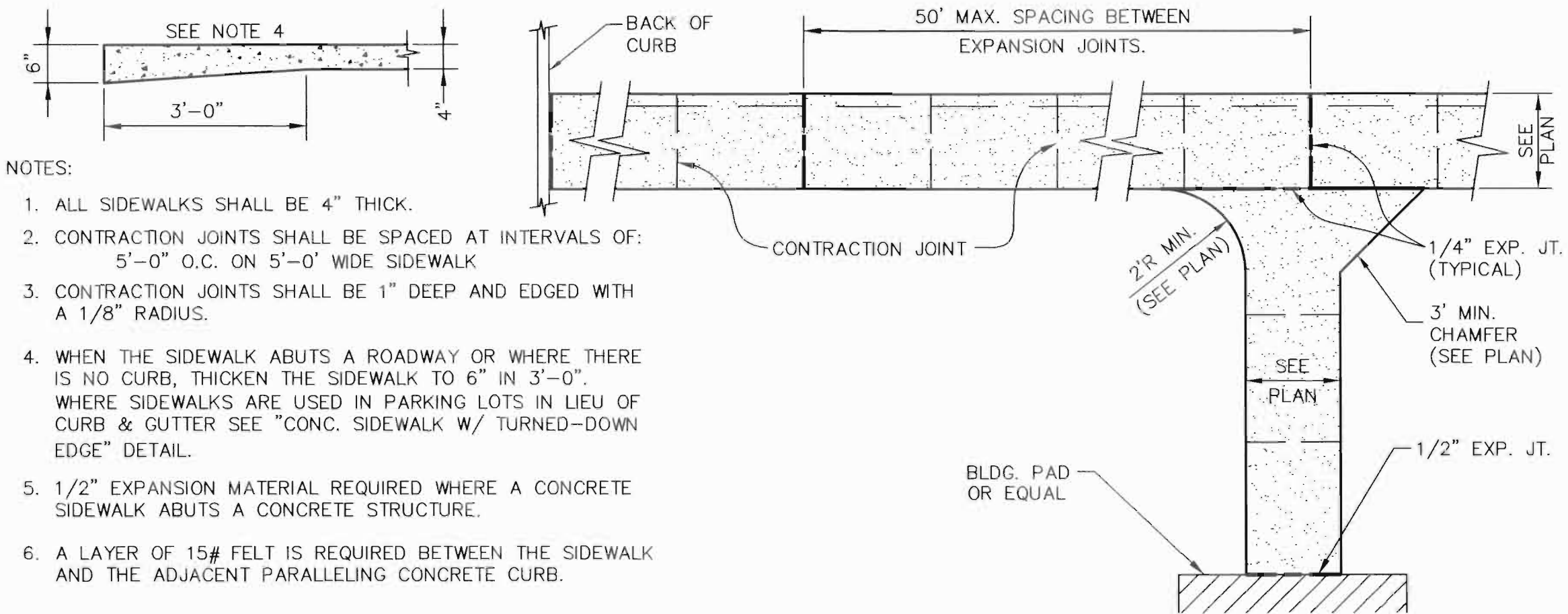


- NOTES:
1. \* USE WHERE THE LANE WIDTH EXCEEDS 12' OR WHERE LANE LINES HAVE BEEN OMITTED.
  2. EDGE LINES SHALL BE PLACED A MINIMUM OF 4" FROM THE NORMAL EDGE OF PAVEMENT.
  3. MARKING COLOR TO MATCH PARKING STRIPING.

**9 CROSSWALK MARKINGS**  
C201 NO SCALE

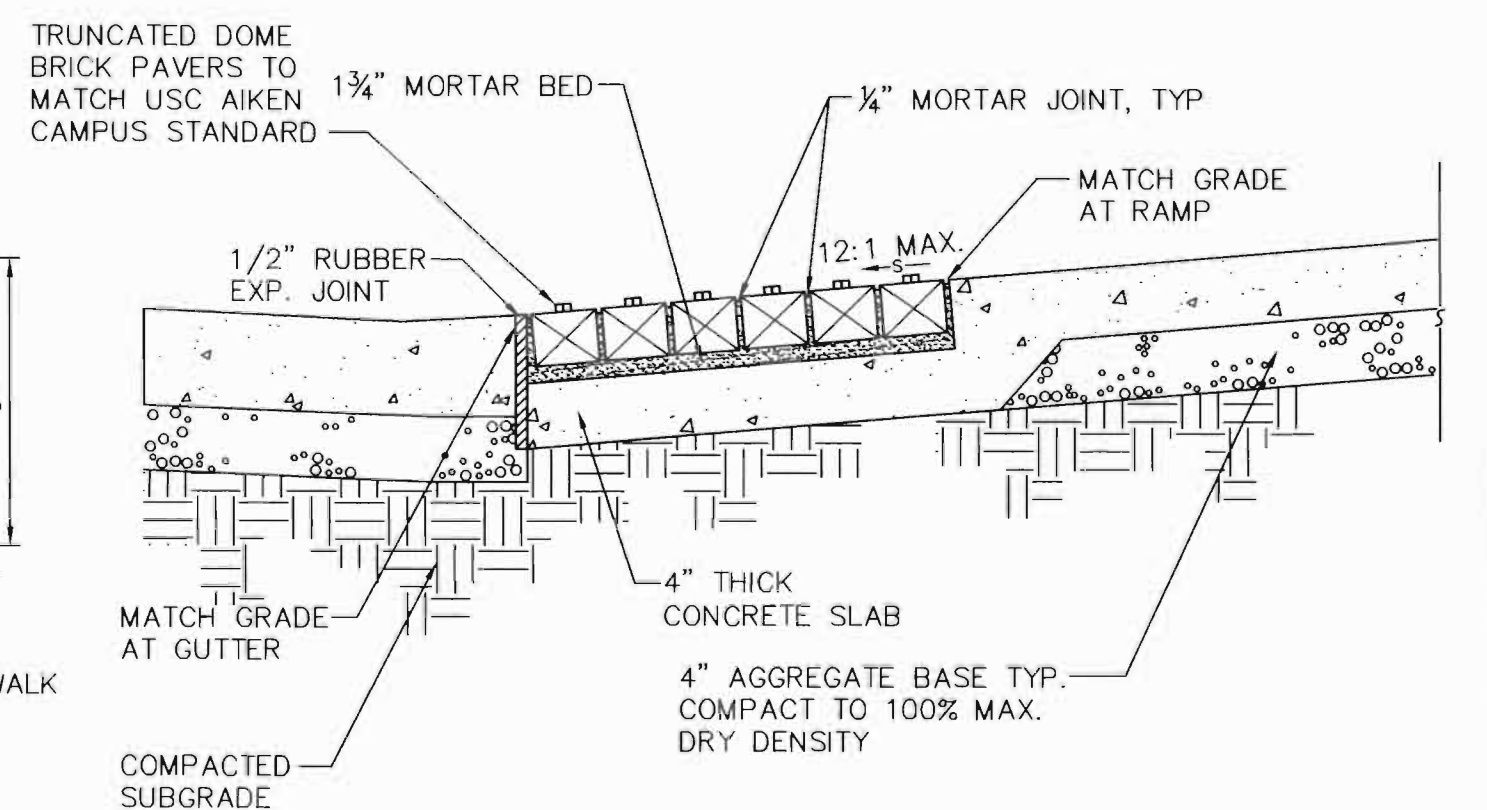
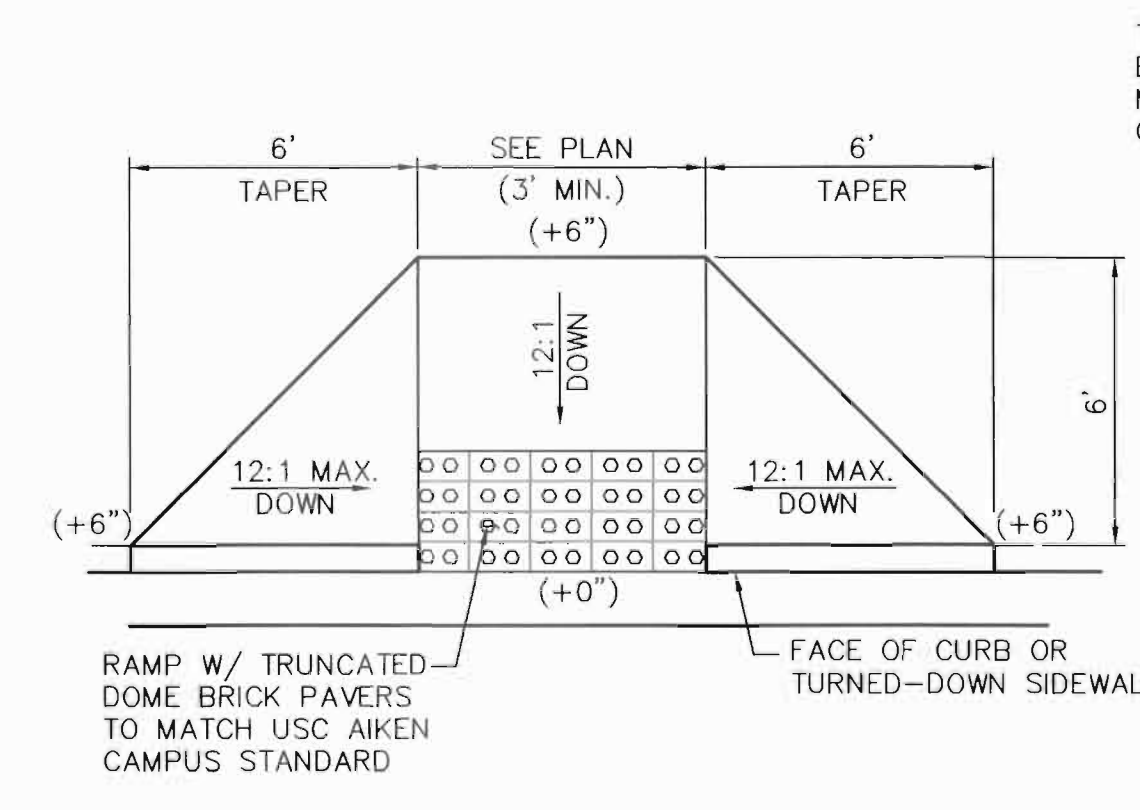
- REFERENCE DRAWINGS:
- G001 COVER SHEET
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MISCELLANEOUS NOTES AND DETAILS - 1 OF 2



- NOTES:
1. ALL SIDEWALKS SHALL BE 4" THICK.
  2. CONTRACTION JOINTS SHALL BE SPACED AT INTERVALS OF: 5'-0" O.C. ON 5'-0" WIDE SIDEWALK
  3. CONTRACTION JOINTS SHALL BE 1" DEEP AND EDGED WITH A 1/8" RADIUS.
  4. WHEN THE SIDEWALK ABUTS A ROADWAY OR WHERE THERE IS NO CURB, THICKEN THE SIDEWALK TO 6" IN 3'-0" WHERE SIDEWALKS ARE USED IN PARKING LOTS IN LIEU OF CURB & GUTTER SEE "CONC. SIDEWALK W/ TURNED-DOWN EDGE" DETAIL.
  5. 1/2" EXPANSION MATERIAL REQUIRED WHERE A CONCRETE SIDEWALK ABUTS A CONCRETE STRUCTURE.
  6. A LAYER OF 15# FELT IS REQUIRED BETWEEN THE SIDEWALK AND THE ADJACENT PARALLELING CONCRETE CURB.

**3 STANDARD JOINT LAYOUT FOR CONCRETE SIDEWALK**  
C201 NO SCALE

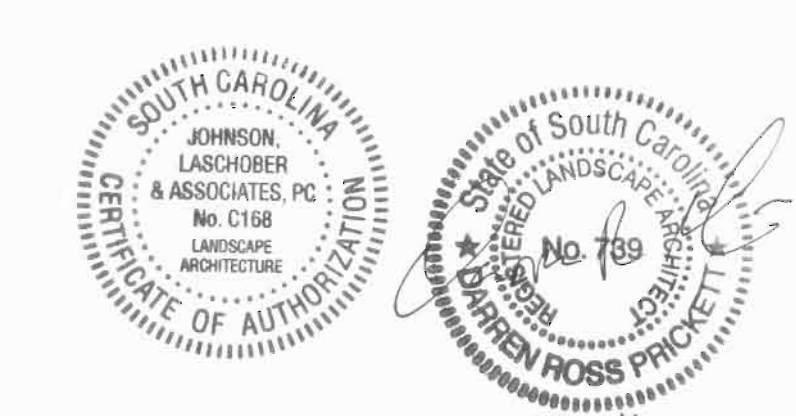


**10 TRUNCATED DOME BRICK PAVER DETECTABLE WARNING STRIP**  
C201 NO SCALE

REV	DATE	BY	DESCRIPTION
0	8/02/11	DRP	ISSUED FOR BID
REVISIONS			
DRAWN BY:	ZKD	DATE:	7/8/10
CHECKED BY:	DRP	DATE:	3/24/11



UTILITY WARNING:  
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Project Number H29-1332

**MISCELLANEOUS NOTES AND DETAILS**  
1 OF 2

SCALE	DATE	PROJECT NO.	DRAWING NO.	REV.
N.T.S.	7/8/10	6930.1002	<b>C201</b>	<b>0</b>

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**CEMENT CONCRETE PAVEMENT**

- CONCRETE MIXTURES**
  - PREPARE DESIGN MIXTURES, PROPORTIONED ACCORDING TO ACI 301, FOR EACH TYPE AND STRENGTH OF NORMAL-WEIGHT CONCRETE DETERMINED BY EITHER LABORATORY TRIAL MIXES OR FIELD EXPERIENCE.
  - USE A QUALIFIED INDEPENDENT TESTING AGENCY FOR PREPARING AND REPORTING PROPOSED CONCRETE MIXTURE DESIGNS FOR THE TRIAL BATCH METHOD.
- PROPORTION MIXTURES TO PROVIDE NORMAL-WEIGHT CONCRETE WITH THE FOLLOWING PROPERTIES:
  - COMPRESSIVE STRENGTH (28 DAYS): 3000 PSI.
  - MAXIMUM WATER-CEMENTITIOUS MATERIALS RATION AT POINT OF PLACEMENT: 0.45.
  - SUMP LIMIT: 4 INCHES, PLUS OR MINUS 1 INCH.
- LIMIT WATER-SOLUBLE, CHLORIDE-ION CONTENT IN HARDENED CONCRETE TO 0.15 PERCENT BY WEIGHT OF CEMENT.

- CONCRETE MIXING**
  - READY-MIXED CONCRETE: MEASURE, BATCH, AND MIX CONCRETE MATERIALS AND CONCRETE ACCORDING TO ASTM C 94/C 94M. FURNISH BATCH CERTIFICATES FOR EACH BATCH DISCHARGED AND USED IN THE WORK.
  - WHEN AIR TEMPERATURE IS BETWEEN 85°F AND 90°F, REDUCE MIXING AND DELIVERY TIME FROM 1-1/2 HOURS TO 75 MINUTES; WHEN AIR TEMPERATURE IS ABOVE 90°F, REDUCE MIXING AND DELIVERY TIME TO 60 MINUTES.

- CONCRETE PLACEMENT**
  - HOT-WEATHER PLACEMENT: COMPLY WITH ACI 301 AND AS FOLLOWS WHEN HOT-WEATHER CONDITIONS EXIST:
    - COOL INGREDIENTS BEFORE MIXING TO MAINTAIN CONCRETE TEMPERATURE BELOW 90°F AT TIME OF PLACEMENT. CHILLED MIXING WATER OR CHOPPED ICE MAY BE USED TO CONTROL TEMPERATURE, PROVIDED WATER EQUIVALENT OF ICE IS CALCULATED TO TOTAL AMOUNT OF MIXING WATER. USING LIQUID NITROGEN TO COOL CONCRETE IS CONTRACTOR'S OPTION.
    - COVER STEEL REINFORCEMENT WITH WATER-SOAKED BURLAP 50 STEEL TEMPERATURE WILL NOT EXCEED AMBIENT AIR TEMPERATURE IMMEDIATELY BEFORE EMBEDDING IN CONCRETE.
    - FOG-SPRAY FORMS, STEEL REINFORCEMENT, AND SUBGRADE JUST BEFORE PLACING CONCRETE. KEEP SUBGRADE MOISTURE UNIFORM WITHOUT STANDING WATER, SOFT SPOTS OR DRY AREAS.

- CONCRETE FINISHING**
  - MEDIUM-TO-COARSE-TEXTURED BROOM FINISH: PROVIDE A MEDIUM COARSE FINISH BY STRIKING FLOAT-FINISHED CONCRETE SURFACE 1/8" TO 1/4" INCH DEEP WITH A STIFF BRISTLED BROOM, PERPENDICULAR TO LINE OF TRAFFIC.

- FIELD QUALITY CONTROL**
  - TESTING AGENCY: CONTRACTOR WILL ENGAGE A QUALIFIED INDEPENDENT TESTING AND INSPECTING AGENCY TO PERFORM FIELD TESTS AND INSPECTIONS AND PREPARE TEST REPORTS.
  - TESTING SERVICES: TESTING OF COMPOSITE SAMPLES OF FRESH CONCRETE OBTAINED ACCORDING TO ASTM C 172 SHALL BE PERFORMED ACCORDING TO THE FOLLOWING REQUIREMENTS:
    - TESTING FREQUENCY: OBTAIN AT LEAST 1 COMPOSITE SAMPLE FOR EACH 100 CY OR FRACTION THEREOF OF EACH CONCRETE MIX PLACED EACH DAY.
      - WHEN FREQUENCY OF TESTING WILL PROVIDE FEWER THAN FIVE COMPRESSIVE-STRENGTH TESTS FOR EACH CONCRETE MIXTURE, TESTING SHALL BE CONDUCTED FROM AT LEAST FIVE RANDOMLY SELECTED BATCHES OR FROM EACH BATCH IF FEWER THAN FIVE ARE USED.
    - SUMP: ASTM C 143/C 143M; ONE TEST AT POINT OF PLACEMENT FOR EACH COMPOSITE SAMPLE, BUT NOT LESS THAN ONE TEST FOR EACH DAY'S POUR OF EACH CONCRETE MIX. PERFORM ADDITIONAL TESTS WHEN CONCRETE CONSISTENCY APPEARS TO CHANGE.
    - AIR CONTENT: ASTM C 231, PRESSURE METHOD; ONE TEST FOR EACH COMPOSITE SAMPLE, BUT NOT LESS THAN ONE TEST FOR EACH DAY'S POUR OF EACH CONCRETE MIX.
    - CONCRETE TEMPERATURE: ASTM C 1064; ONE TEST HOURLY WHEN AIR TEMPERATURE IS 40°F AND BELOW AND WHEN 80°F AND ABOVE, AND ONE TEST FOR EACH COMPOSITE SAMPLE.
    - COMPRESSION TEST SPECIMENS: ASTM C 31/C 31M; CAST AND LABORATORY CURE ONE SET OF THREE STANDARD CYLINDER SPECIMENS FOR EACH COMPOSITE SAMPLE.
    - COMPRESSIVE-STRENGTH TESTS: ASTM C 39/C 39M; TEST 1 SPECIMEN AT 7 DAYS AND 2 SPECIMENS AT 28 DAYS.
      - COMPRESSIVE-STRENGTH TEST SHALL BE THE AVERAGE COMPRESSIVE STRENGTH FROM 2 SPECIMENS OBTAINED FROM SAME COMPOSITE SAMPLE AND TESTED AT 28 DAYS.

- STRENGTH OF EACH CONCRETE MIX WILL BE SATISFACTORY IF AVERAGE OF ANY THREE CONSECUTIVE COMPRESSIVE-STRENGTH TEST EQUALS OR EXCEEDS SPECIFIED COMPRESSIVE-STRENGTH AND NO COMPRESSIVE STRENGTH TEST VALUE FALLS BELOW SPECIFIED COMPRESSIVE STRENGTH BY MORE THAN 500PSI
- TEST RESULTS SHALL BE REPORTED IN WRITING TO ENGINEER, CONC. MANUFACTURER AND CONTRACTOR WITHIN 48 HOURS OF TESTING. REPORTS OF COMPRESSIVE STRENGTH TESTS SHALL CONTAIN PROJECT IDENTIFICATION IN NAME AND NUMBER, DATE OF CONCRETE PLACEMENT, NAME OF CONCRETE TESTING AND INSPECTION AGENCY, LOCATION OF CONCRETE BATCH IN WORK, DESIGN COMPRESSIVE STRENGTH AT 28 DAYS, CONCRETE MIXTURE PROPORTIONS AND MATERIALS, COMPRESSIVE BREAKING STRENGTH, AND TYPE OF BREAK FOR BOTH 7 AND 28 DAY TESTS.
- ADDITIONAL TESTS: TESTING AND INSPECTING AGENCY SHALL MAKE ADDITIONAL TESTS OF CONCRETE WHEN TEST RESULTS INDICATE THAT SLUMP, AIR ENTRAPMENT, COMPRESSIVE STRENGTH, OR OTHER REQUIREMENTS HAVE NOT BEEN MET, AS DIRECTED BY ENGINEER.
- REMOVE AND REPLACE CONCRETE PAVEMENT WHERE TEST RESULTS INDICATE THAT IT DOES NOT COMPLY WITH SPECIFIED REQUIREMENTS.
- ADDITIONAL TESTING AND INSPECTING, AT CONTRACTORS EXPENSE, WILL BE PERFORMED TO DETERMINE COMPLIANCE OF REPLACED OR ADDITIONAL WORK WITH SPECIFIED REQUIREMENTS.

- REPAIRS AND PROTECTION**
  - REMOVE AND REPLACE CONCRETE PAVEMENT THAT IS BROKEN, DAMAGED, OR DEFECTIVE OR THAT DOES NOT COMPLY WITH REQUIREMENTS IN THIS SECTION.
  - DRILL TEST CORES, WHERE DIRECTED BY ENGINEER, WHEN NECESSARY TO DETERMINE MAGNITUDE OF CRACKS OR DEFECTIVE AREAS. FILL DRILLED HOLES IN SATISFACTORY PAVEMENT AREAS WITH PORTLAND CEMENT BONDED TO PAVEMENT WITH EPOXY ADHESIVE.
  - PROTECT CONCRETE FROM DAMAGE. EXCLUDE TRAFFIC FROM PAVEMENT FOR AT LEAST 14 DAYS AFTER PLACEMENT. WHEN CONSTRUCTION TRAFFIC IS PERMITTED, MAINTAIN PAVEMENT AS CLEAN AS POSSIBLE BY REMOVING SURFACE STAINS AND SPILLAGE AS THEY OCCUR.
  - MAINTAIN CONCRETE PAVEMENT FREE OF STAINS, DISCOLORATION, DIRT, AND OTHER FOREIGN MATERIAL. SWEEP CONCRETE PAVEMENT NOT MORE THAN TWO DAYS BEFORE DATE SCHEDULED FOR SUBSTANTIAL COMPLETION INSPECTIONS.

**EARTHWORK**

- COMPACTION OF SOIL BACKFILLS AND FILLS**
  - PLACE BACKFILL AND FILL SOIL MATERIALS IN LAYERS NOT MORE THAN 4 TO 8 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HEAVY COMPACTION EQUIPMENT, AND NOT MORE THAN 4 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HAND-OPERATED TAMPERS.
  - PLACE BACKFILL AND FILL SOIL MATERIALS EVENLY ON ALL SIDES OF STRUCTURES TO REQUIRED ELEVATIONS, AND UNIFORMLY ALONG THE FULL LENGTH OF EACH STRUCTURE.
  - COMPACT SOIL MATERIALS TO NOT LESS THAN THE FOLLOWING PERCENTAGES OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D 698, UNLESS NOTED OTHERWISE ON DRAWINGS:
    - UNDER PAVEMENT RECOMPACT TOP 6" SUBGRADE TO 100 PER CENT STANDARD PROCTER. ANY AREA THAT CANNOT BE RECOMPACTED OR YIELDS WHILE PROOF ROLLING WILL BE UNDERCUT AS DIRECTED BY THE OWNER'S ENGINEER AND BACKFILLED WITH GDOT CLASS "A" BASE TO 95 PERCENT MODIFIED PROCTER, ASTM D 1557. THE UPPER 18" OF FILL BENEATH PAVING BASE SHALL BE COMPACTED TO 98 PERCENT STANDARD PROCTER.
    - UNDER WALKWAYS, SCARIFY AND RECOMPACT TOP 6 INCHES BELOW SUBGRADE AND COMPACT EACH LAYER OF BACKFILL OR FILL SOIL MATERIAL AT 95 PERCENT.
    - UNDER LAWN OR UNPAVED AREAS, SCARIFY AND RECOMPACT TOP 6 INCHES BELOW SUBGRADE AND COMPACT EACH LAYER OF BACKFILL OR FILL SOIL MATERIAL AT 85 PERCENT.

- GRADING**
  - GENERAL: UNIFORMLY GRADE AREAS TO A SMOOTH SURFACE, FREE OF IRREGULAR SURFACE CHANGES. COMPLY WITH COMPACTION REQUIREMENTS AND GRADE TO CROSS SECTIONS, LINES AND ELEVATIONS INDICATED.
    - PROVIDE A SMOOTH TRANSITION BETWEEN ADJACENT EXISTING GRADES AND NEW GRADES.
    - CUT OUT SOFT SPOTS, FILL LOW SPOTS AND TRIM HIGH SPOTS TO COMPLY WITH REQUIRED SURFACE TOLERANCES.
  - SITE GRADING: SLOPE GRADES TO DIRECT WATER AWAY FROM BUILDINGS AND TO PREVENT PONDING. FINISH SUBGRADES TO REQUIRED ELEVATIONS WITHIN THE FOLLOWING TOLERANCES:
    - LAWN OR UNPAVED AREAS: PLUS OR MINUS 1 INCH.
    - WALKS: PLUS OR MINUS 1 INCH.
    - PAVEMENTS: PLUS OR MINUS 1/2 INCH.

- BASE COURSE**
  - PLACE BASE COURSE ON SUBGRADES FREE OF MUD, FROST, SNOW OR ICE.
  - ON PREPARED SUBGRADE, PLACE BASE COURSE UNDER PAVEMENTS AND WALKS AS FOLLOWS:
    - PLACE BASE COURSE MATERIAL OVER SUBGRADE UNDER HOT-MIX ASPHALT PAVEMENT.
    - SHAPE BASE COURSE TO REQUIRED CROWN ELEVATIONS AND CROSS-SLOPE GRADES.
    - PLACE BASE COURSE 6 INCHES OR LESS IN COMPACTED THICKNESS IN A SINGLE LAYER.
    - PLACE BASE COURSE THAT EXCEEDS 6 INCHES IN COMPACTED THICKNESS IN LAYERS OF EQUAL THICKNESS, WITH NO UNCOMPACTED LAYER MORE THAN 6 INCHES THICK OR LESS THAN 3 INCHES THICK.
    - COMPACT BASE COURSE AT OPTIMUM MOISTURE CONTENT TO REQUIRED GRADES, LINES, CROSS SECTIONS, AND THICKNESS TO NOT LESS THAN 98 PERCENT OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D 1557.
  - PAVEMENT SHOULDERS: PLACE SHOULDERS ALONG EDGES OF BASE COURSE TO PREVENT LATERAL MOVEMENT. CONSTRUCT SHOULDERS, AT LEAST 12 INCHES WIDE, OF SATISFACTORY SOIL MATERIALS AND COMPACT SIMULTANEOUSLY WITH EACH BASE LAYER TO NOT LESS THAN 95 PERCENT OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D 1557.

- FIELD QUALITY CONTROL**
  - TESTING AGENCY: CONTRACTOR WILL ENGAGE A QUALIFIED INDEPENDENT GEOTECHNICAL ENGINEERING TESTING AGENCY TO PERFORM FIELD QUALITY-CONTROL TESTING.
  - ALLOW TESTING AGENCY TO INSPECT AND TEST SUBGRADES AND EACH FILL OR BACKFILL LAYER. PROCEED WITH SUBSEQUENT EARTHWORK ONLY AFTER TEST RESULTS FOR PREVIOUSLY COMPLETED WORK COMPLY WITH REQUIREMENTS.
  - TESTING AGENCY WILL TEST COMPACTION OF SOILS IN PLACE ACCORDING TO ASTM D 1556, ASTM D 2167, ASTM D 2922 AND ASTM D 2937 AS APPLICABLE. TESTS WILL BE PERFORMED AT THE FOLLOWING LOCATIONS AND FREQUENCIES:
    - PAVED AREAS: AT SUBGRADE AND AT EACH COMPACTED FILL AND BACKFILL LAYER, AT LEAST 1 TEST FOR EVERY 3,000 SQ. FT. OR LESS OF PAVED AREA OR BUILDING SLAB, BUT IN NO CASE FEWER THAN 3 TESTS.
  - WHEN CONTRACTOR'S TESTING AGENCY REPORTS THAT SUBGRADES, FILLS OR BACKFILLS HAVE NOT ACHIEVED THE DEGREE OF COMPACTION SPECIFIED, THE CONTRACTOR SHALL SCARIFY AND MOISTEN OR AERATE, OR REMOVE AND REPLACE SOIL TO DEPTH REQUIRED; RECOMPACT AND RETEST UNTIL SPECIFIED COMPACTION IS OBTAINED. RETESTING COST SHALL BE BY CONTRACTOR.

**DISPOSAL OF SURPLUS AND WASTE MATERIALS**

- DISPOSAL: REMOVE SURPLUS SATISFACTORY SOIL FROM SITE AND LEGALLY DISPOSE.
- DISPOSE OF UNSUITABLE EXCAVATED MATERIALS OFF SITE IN A LEGAL MANNER.
- REMOVAL OF WASTE MATERIALS, INCLUDING UNSATISFACTORY MATERIALS, TRASH AND DEBRIS SHALL BE LEGALLY TRANSPORTED AND DISPOSED OF OFF OWNER'S PROPERTY.

**TEMPORARY EROSION AND SEDIMENTATION CONTROL**

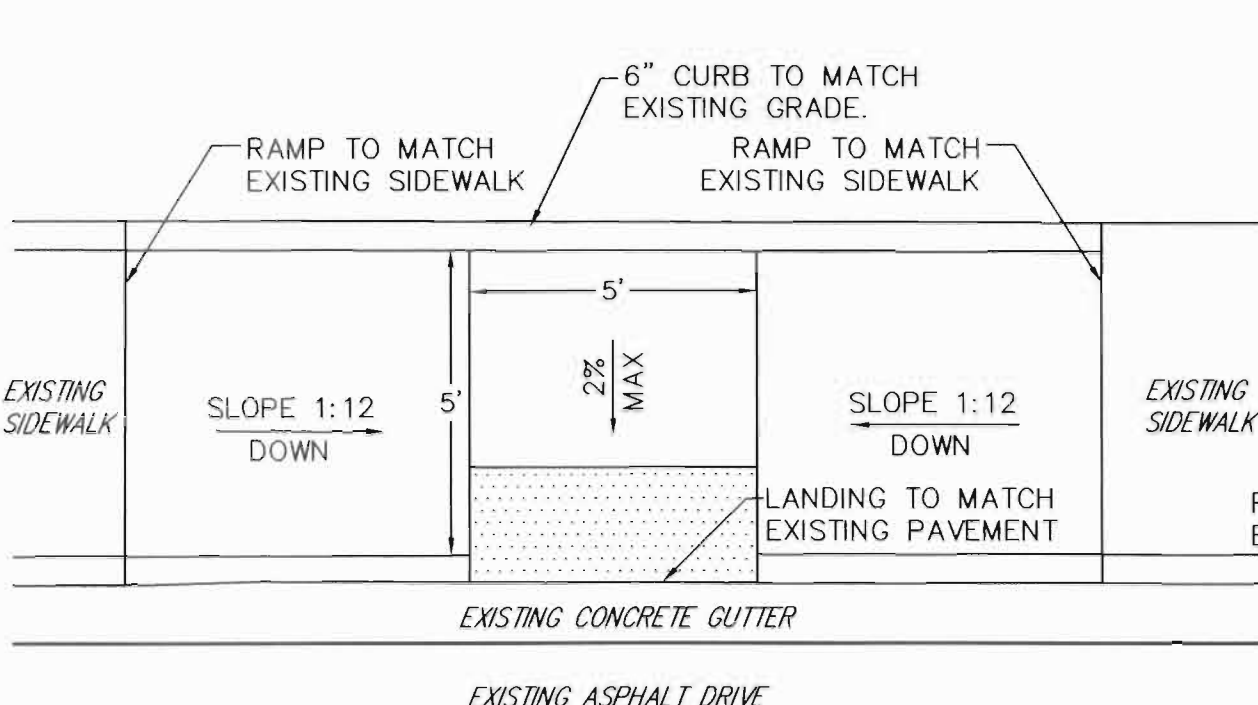
- PROVIDE TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES TO PREVENT SOIL EROSION AND DISCHARGE OF SOIL-BEARING WATER RUNOFF OR AIRBORNE DUST TO ADJACENT PROPERTIES ACCORDING TO THE SEDIMENT AND EROSION CONTROL PLAN, SPECIFIC TO THE SITE THAT COMPLIES WITH THE REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
- INSPECT, REPAIR AND MAINTAIN EROSION CONTROL PLAN, SPECIFIC TO THE SITE THAT COMPLIES WITH THE REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
- REMOVE EROSION AND SEDIMENTATION CONTROLS AND RESTORE AND STABILIZE AREAS DISTURBED DURING REMOVAL.

**TOPSOIL STRIPPING**

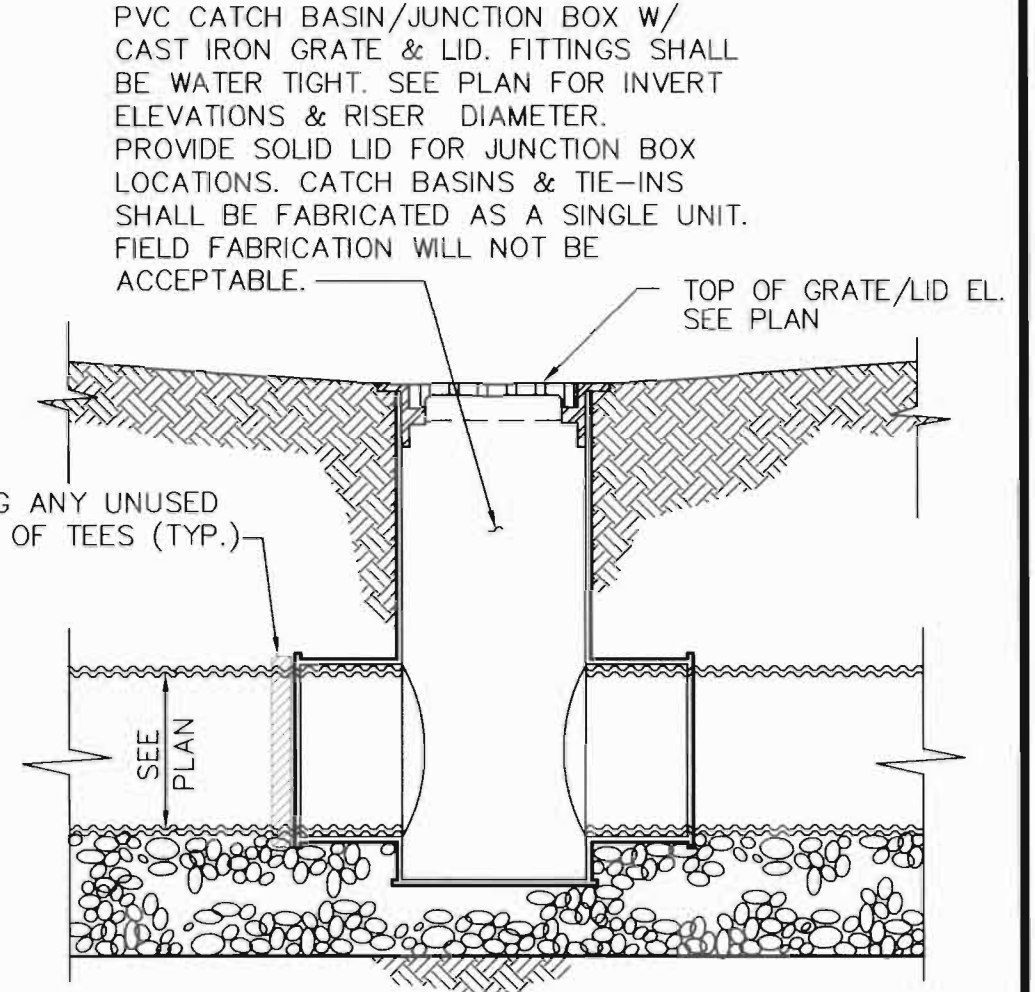
- REMOVE SOD AND GRASS BEFORE STRIPPING TOPSOIL.
- STRIP TOPSOIL TO WHATEVER DEPTHS ARE ENCOUNTERED IN A MANNER TO PREVENT INTERMINGLING WITH UNDERLYING SUBSOIL OR OTHER WASTE MATERIALS.
  - REMOVE SUBSOIL AND NON-SOIL MATERIALS FROM TOPSOIL, INCLUDING TRASH, DEBRIS, WEEDS, ROOTS AND OTHER WASTE MATERIALS.
  - STOCKPILE TOPSOIL MATERIALS AWAY FROM EDGE OF EXCAVATIONS WITHOUT INTERMINGLING WITH SUBSOIL. GRADE AND SHAPE STOCKPILES TO DRAIN SURFACE WATER. COVER TO PREVENT WINDBLOWN DUST.
    - LIMIT HEIGHT OF TOPSOIL STOCKPILES TO 72 INCHES.
    - DO NOT STOCKPILE TOPSOIL WITHIN TREE PROTECTION ZONES.
    - DISPOSE OF EXCESS TOPSOIL AS SPECIFIED FOR WASTE MATERIAL DISPOSAL.
    - STOCKPILE SURPLUS TOPSOIL TO ALLOW FOR RE-SPREADING DEEPER TOPSOIL.

**SCHEDULE OF ALTERNATES**

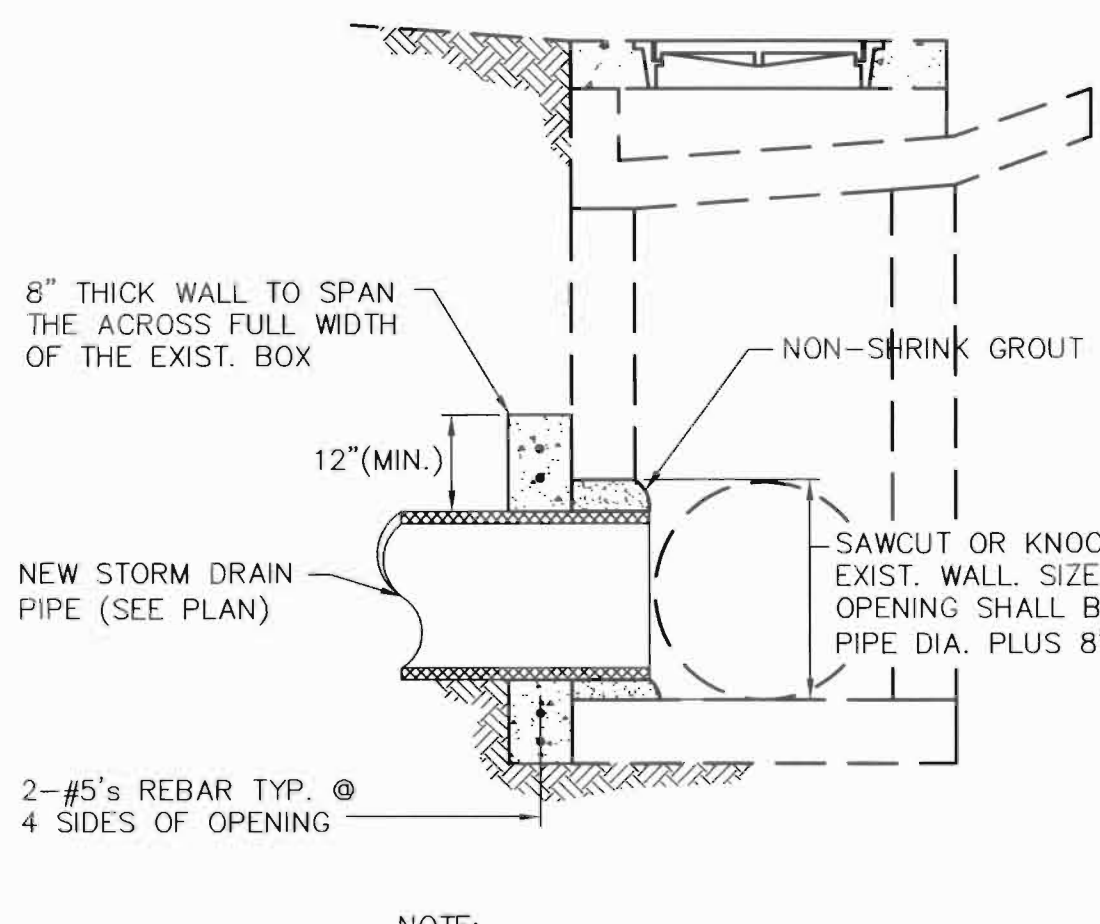
- ADD ALTERNATE No.1-ALL MATERIALS, COST, CONSTRUCTION, OVERHEAD AND PROFIT ASSOCIATED WITH THE COMPLETE CONSTRUCTION OF APPROXIMATELY 335LF OF NEW SIDEWALK ALONG THE WESTERN EDGE OF PARKING LOT. SEE SHEETS VD002 AND C102.
- ADD ALTERNATE No.2-ALL MATERIALS, COST, CONSTRUCTION, OVERHEAD AND PROFIT ASSOCIATED WITH THE COMPLETE CONSTRUCTION OF THE IMPROVEMENTS AT THE RUTH PATRICK SCIENCE CENTER. SEE SHEETS VD001 AND C101.



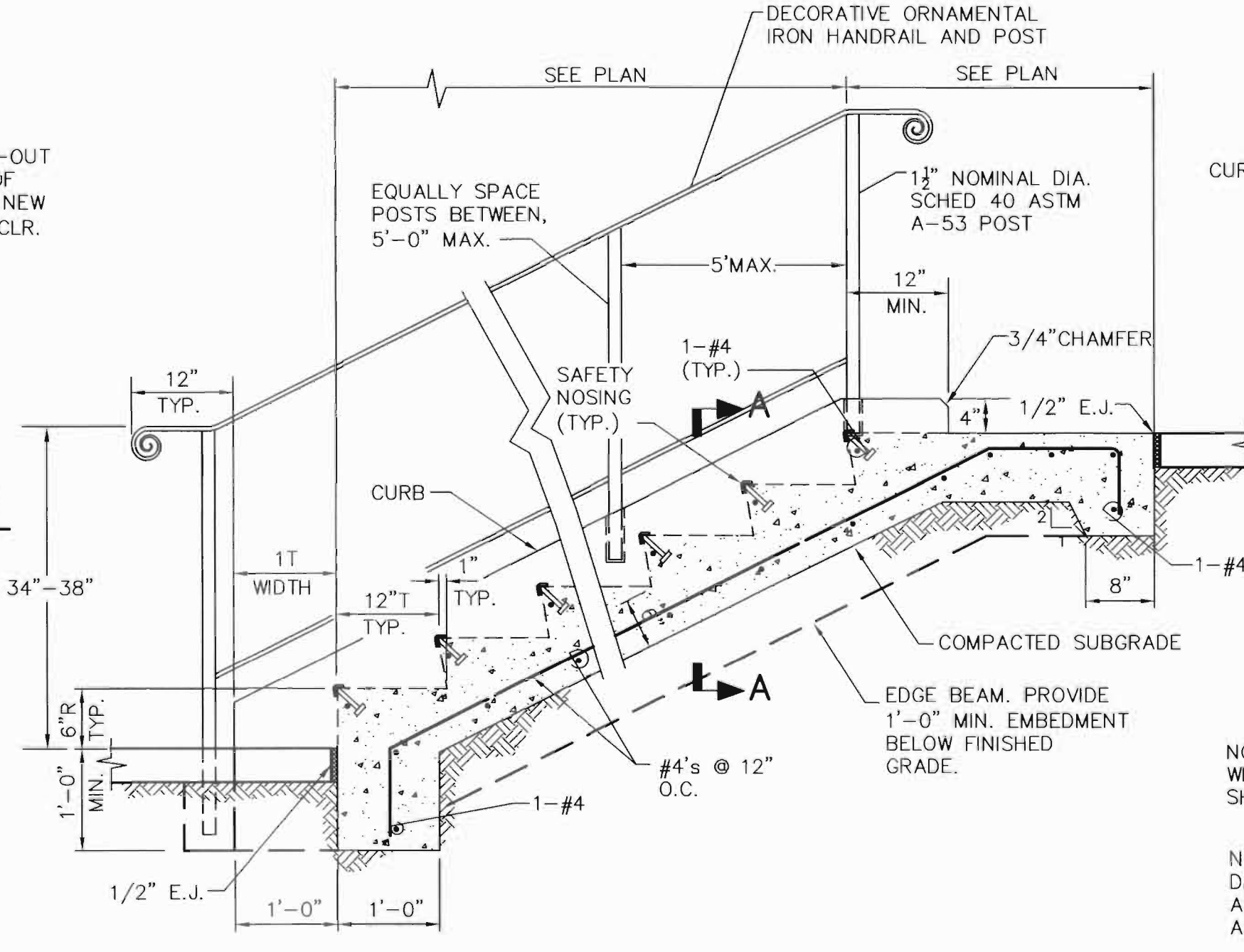
**1 HANDICAP RAMP**  
NO SCALE



**2 PVC JUNCTION BOX/GRATE DETAIL**  
NO SCALE



**3 STORM PIPE TIE-IN TO EXIST. BOX**  
NO SCALE



**4 EXTERIOR STAIR WITH CURB DETAIL**  
NO SCALE

**REFERENCE DRAWINGS:**

- G001 COVER SHEET
- VD001 EXISTING CONDITIONS AND DEMOLITION PLAN - 1 OF 2
- VD002 EXISTING CONDITIONS AND DEMOLITION PLAN - 2 OF 2
- C101 LAYOUT, STAKING, AND EROSION CONTROL PLAN - 1 OF 2
- C102 LAYOUT, STAKING, AND EROSION CONTROL PLAN - 2 OF 2
- C201 MISCELLANEOUS NOTES AND DETAILS - 1 OF 2
- E101 PARTIAL ELECTRICAL SITE PLAN - 1 OF 3
- E102 PARTIAL ELECTRICAL SITE PLAN - 2 OF 3
- E103 PARTIAL ELECTRICAL SITE PLAN - 3 OF 3
- E201 ELECTRICAL DETAILS
- E202 PANEL DETAILS AND RISER DIAGRAMS

**MISCELLANEOUS NOTES AND DETAILS - 2 OF 2**

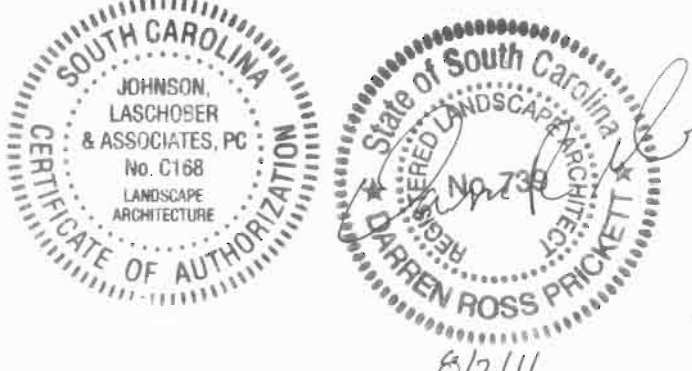
REV	DATE	BY	DESCRIPTION
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ZKD	7/8/10	DRP	3/24/11	

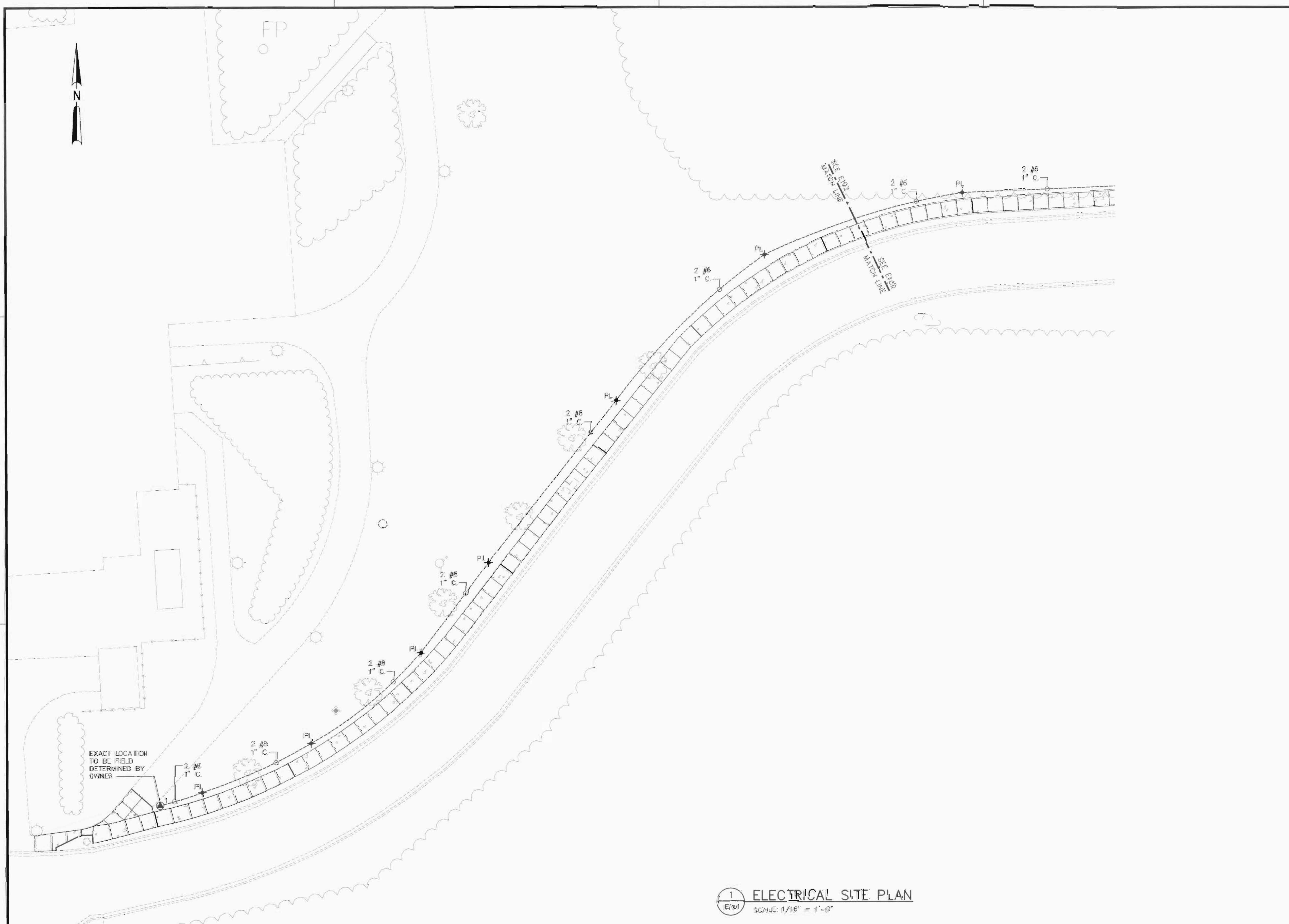
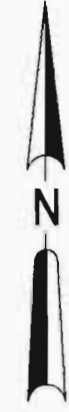


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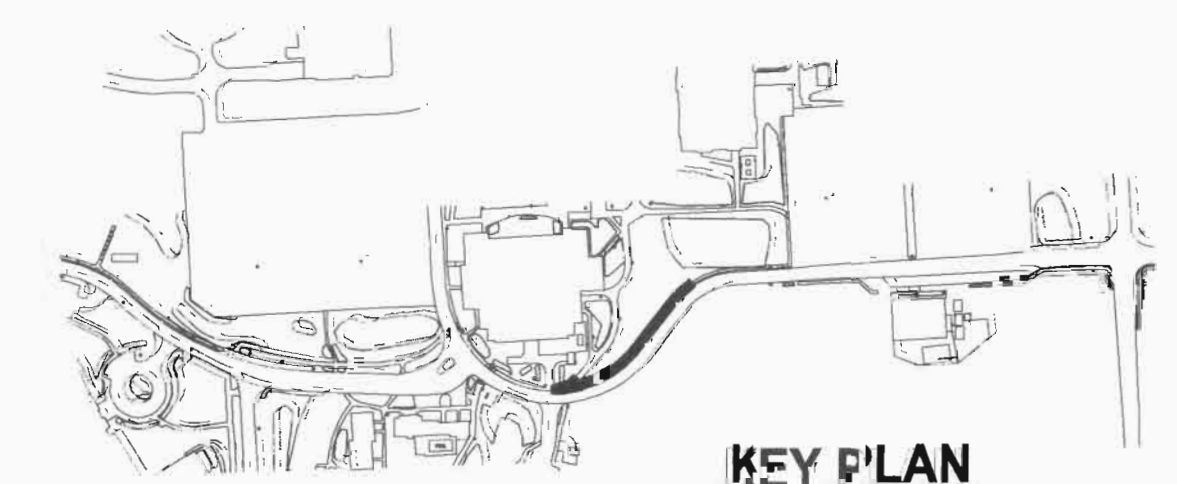


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Project Number H29-1332  
**MISCELLANEOUS NOTES AND DETAILS**  
2 OF 2  
**JOHNSON, LASCHOBER & ASSOCIATES, P.C.**  
1296 BROAD STREET, AUGUSTA, GEORGIA 30901  
TEL (706) 724-5756 FAX (706) 724-3955  
SCALE: N.T.S. DATE: 7/8/10 PROJECT NO. 6930.1002 DRAWING NO. **C202** REV. **0**



1 ELECTRICAL SITE PLAN  
E101



- REFERENCE DRAWINGS**
- 0000 COVER SHEET
  - 0001 EXISTING CONDITIONS AND DEMOLITION PLAN - 1 OF 3
  - 0002 EXISTING CONDITIONS AND DEMOLITION PLAN - 2 OF 3
  - 0003 EXISTING CONDITIONS AND DEMOLITION PLAN - 3 OF 3
  - 0101 LAYOUT, STAKING, AND EROSION CONTROL PLAN - 1 OF 3
  - 0102 LAYOUT, STAKING, AND EROSION CONTROL PLAN - 2 OF 3
  - 0103 LAYOUT, STAKING, AND EROSION CONTROL PLAN - 3 OF 3
  - 0201 MISCELLANEOUS NOTES AND DETAILS - 1 OF 2
  - 0202 MISCELLANEOUS NOTES AND DETAILS - 2 OF 2
  - 0301 PARTIAL ELECTRICAL SITE PLAN - 1 OF 3
  - 0302 PARTIAL ELECTRICAL SITE PLAN - 2 OF 3
  - 0303 PARTIAL ELECTRICAL SITE PLAN - 3 OF 3
  - E201 ELECTRICAL DETAILS
  - E202 PANEL DETAILS AND RISER DIAGRAMS

REV	DATE	BY	DESCRIPTION

ISSUED FOR BID	

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



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 Project Number: 29-138

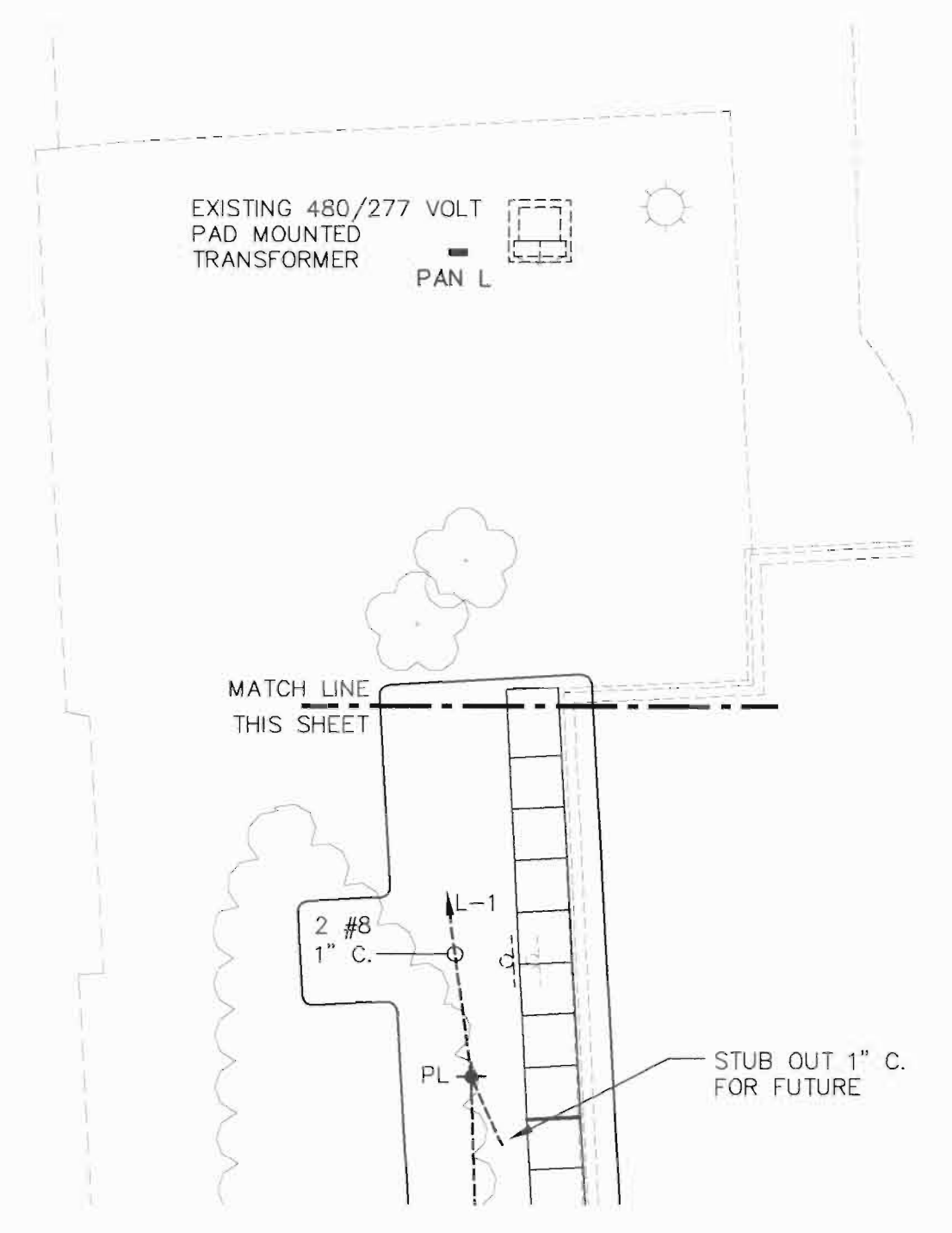
**PARTIAL ELECTRICAL  
 SITE PLAN - 1 OF 3**

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Scale	Date	PROJECT NO.	DRAWING NO.	REV.
As Noted	02/11/10	6930.1002	<b>E101</b>	0

**NOTES (THIS SHEET)**

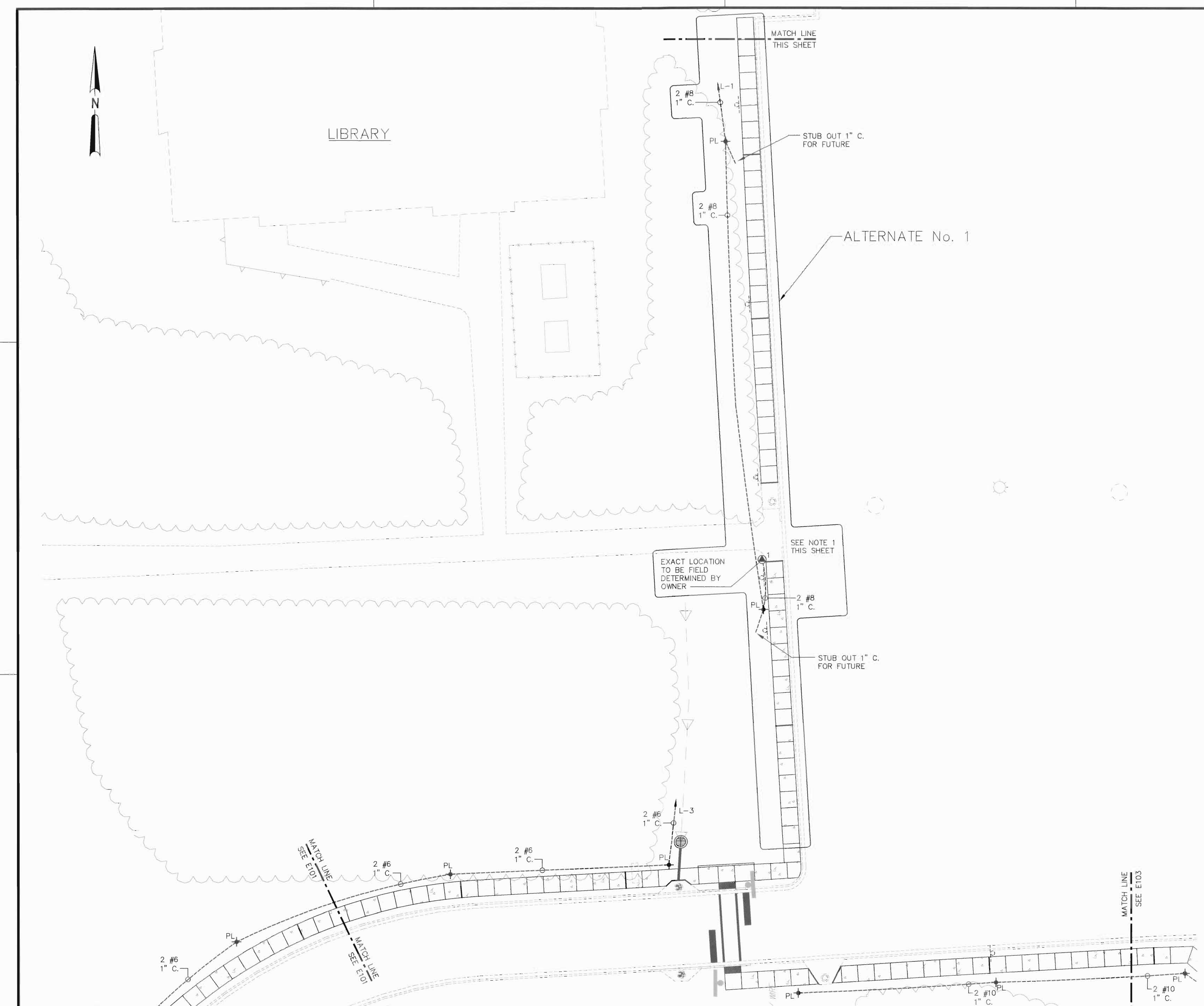
- TUNNEL UNDER EXISTING SIDEWALK.



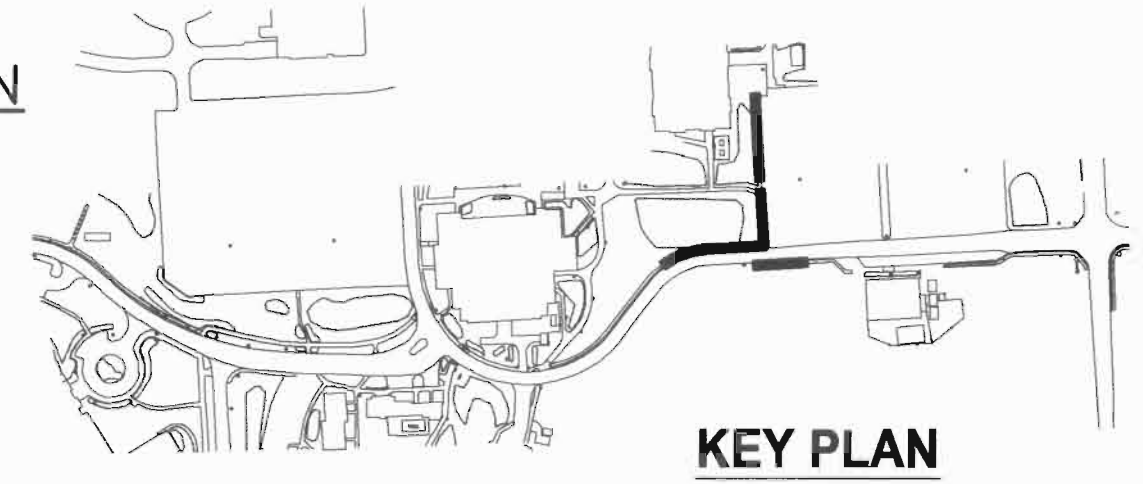
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ALTERNATE No. 1



**1 ELECTRICAL SITE PLAN**  
SCALE: 1/16" = 1'-0"



**REFERENCE DRAWINGS:**

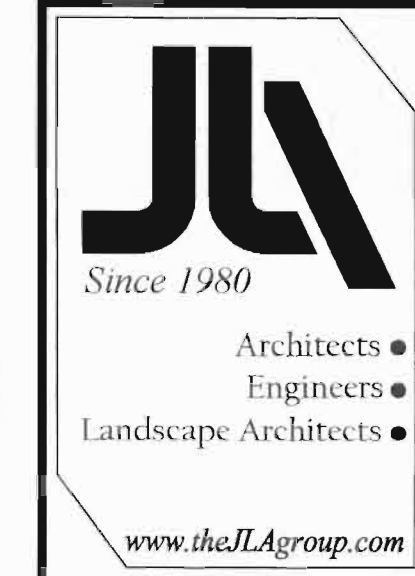
- G001 COVER SHEET
- VD001 EXISTING CONDITIONS AND DEMOLITION PLAN - 1 OF 3
- VD002 EXISTING CONDITIONS AND DEMOLITION PLAN - 2 OF 3
- VD003 EXISTING CONDITIONS AND DEMOLITION PLAN - 3 OF 3
- C101 LAYOUT, STAKING, AND EROSION CONTROL PLAN - 1 OF 3
- C102 LAYOUT, STAKING, AND EROSION CONTROL PLAN - 2 OF 3
- C103 LAYOUT, STAKING, AND EROSION CONTROL PLAN - 3 OF 3
- L101 LANDSCAPE PLAN
- MISCELLANEOUS NOTES AND DETAILS - 1 OF 2
- E101 PARTIAL ELECTRICAL SITE PLAN - 1 OF 3
- E103 PARTIAL ELECTRICAL SITE PLAN - 3 OF 3
- E201 ELECTRICAL DETAILS
- E202 PANEL DETAILS AND RISER DIAGRAMS

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

REV	DATE	BY	DESCRIPTION
0	8/2/11	RBS	ISSUED FOR BID

REV	DATE	BY	DESCRIPTION



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USC AIKEN PEDESTRIAN SAFETY IMPROVEMENTS  
Project Number H29-1332

**PARTIAL ELECTRICAL**  
**SITE PLAN - 2 OF 3**

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SCALE	DATE	PROJECT NO.	DRAWING NO.	REV.
AS NOTED	8/25/10	6930.1002	<b>E102</b>	<b>0</b>

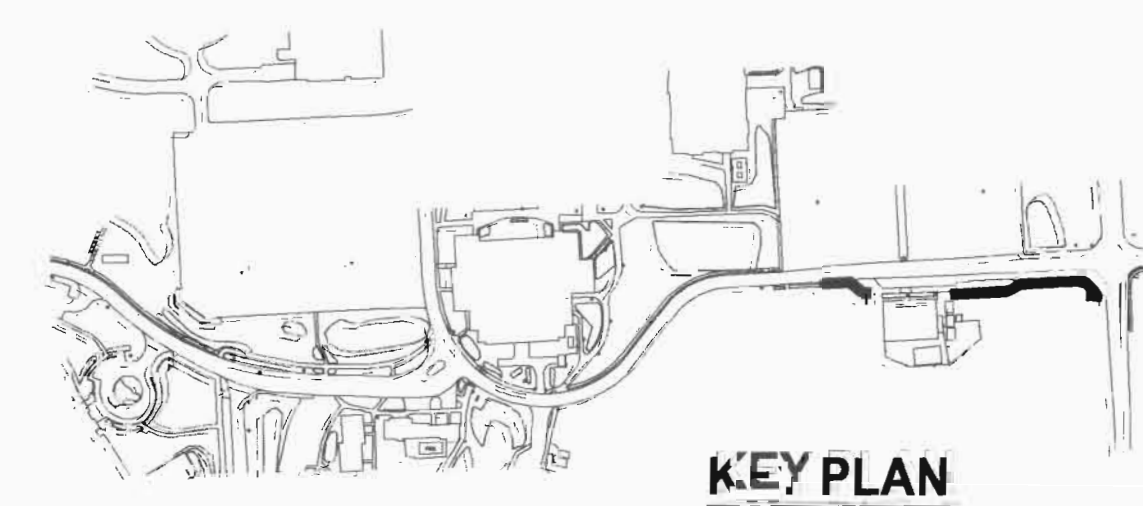
NOTES (THIS SHEET)  
 1. TUNNEL UNDER EXISTING SIDEWALK.



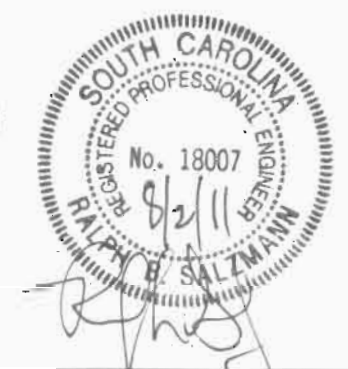
**ELECTRICAL SITE PLAN**  
 SCALE: 1/16" = 1'-0"

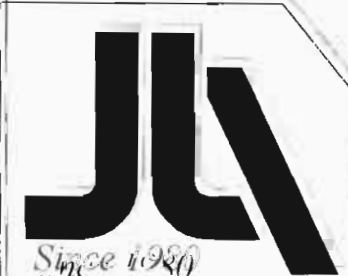
- REFERENCE DRAWINGS:**
- G001 COVER SHEET
  - 0001 EXISTING CONDITIONS AND DEMOLITION PLAN - 1 OF 3
  - V001 EXISTING CONDITIONS AND DEMOLITION PLAN - 2 OF 3
  - Y003 EXISTING CONDITIONS AND DEMOLITION PLAN - 3 OF 3
  - C101 LAYOUT, STAKING, AND EROSION CONTROL PLAN - 1 OF 3
  - C102 LAYOUT, STAKING, AND EROSION CONTROL PLAN - 2 OF 3
  - C103 LAYOUT, STAKING, AND EROSION CONTROL PLAN - 3 OF 3
  - C201 MISCELLANEOUS NOTES AND DETAILS - 1 OF 2
  - L101 LANDSCAPE PLAN
  - E101 PARTIAL ELECTRICAL SITE PLAN - 1 OF 3
  - E102 PARTIAL ELECTRICAL SITE PLAN - 2 OF 3
  - E201 ELECTRICAL DETAILS
  - E202 PANEL DETAILS AND RISER DIAGRAMS

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



REV	DATE	BY	ISSUED FOR	DESCRIPTION
REVISIONS				
DRAWN BY:	JHW	DATE:	11/03/10	CHECKED BY:
				RBS DATE: 11/05/10



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	<b>JOHNSON LASCHOBER &amp; ASSOCIATES, P.C.</b> 1206 BROAD STREET Aiken, South Carolina 29801 TEL: (803) 724-2255 FAX: (803) 724-3255			
	SCALE	DATE	PROJECT NO.	DRAWING NO.
AS NOTED	8/25/10	6930-1002	<b>E103</b>	
			REV. <b>0</b>	



LIGHTING FIXTURE SCHEDULE							
ID	MANUFACTURER	MODEL NO.	VOLTAGE	REQUIRED LAMPS		MOUNTING	REMARKS
				NUM.	TYPE		
PL	Sternberg	6ARC45T5 508 PEC1	120	1	LED	Post	MOUNT FIXTURE ON 4212-FP5 POLE ON CONCRETE BASE. SEE DETAIL 2/E201 INTEGRAL PHOTO CELL REQUIRED. ALL FINISHES SHALL BE BLACK. FIXTURES SHALL MATCH EXISTING FIXTURES INSTALLED UNDER PHASE 1 SIDEWALK CONTRACT.

SPECIAL OUTLET SCHEDULE				
ID	WATTS	VOLTS	PHASE	DESCRIPTION
1	400	120	1	EMERGENCY CALL STATION. SEE DETAIL 1/E201. PROVIDE 2 - 3/4" E.C. STUB OUTS FOR OWNER FURNISHED AND INSTALLED CAT5E CABLES.

### GENERAL NOTES

- COORDINATE OUTLET LOCATIONS WITH LANDSCAPE PLANS, ELEVATIONS AND DETAILS.
- COORDINATE EMERGENCY CALL STATION LOCATIONS WITH LANDSCAPE PLANS, ELEVATIONS AND DETAILS.
- COORDINATE SITE LIGHTING AND SITE UTILITIES WITH LANDSCAPING PLANS AND DETAILS AND EXISTING CONDITIONS.
- COORDINATE ELECTRICAL SERVICE REQUIREMENTS WITH SERVING UTILITY.
- COORDINATE SIGNAL SERVICE REQUIREMENTS WITH SERVING UTILITY.
- DO NOT SCALE DRAWINGS. DEVICE LOCATIONS ARE APPROXIMATE UNLESS DIMENSIONED. ACTUAL DEVICE LOCATIONS SHALL BE FIELD COORDINATED WITH ALL OTHER TRADES AND APPLICABLE CODES.
- CONTRACTOR SHALL "STAKE" LOCATION OF POLES FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
- LOCATION OF POLES MAY BE MOVED UP TO 10'-0" AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL "STAKE" LOCATION OF PANELS FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
- LOCATION OF PANELS MAY BE MOVED UP TO 25'-0" AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL "STAKE" LOCATION OF EMERGENCY CALL STATIONS FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
- LOCATION OF EMERGENCY CALL STATIONS MAY BE MOVED UP TO 10'-0" AT NO ADDITIONAL COST TO THE OWNER.

### SYMBOLS



### SPECIFICATIONS

**GENERAL** - ALL WORK SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE (NFPA 70-2008) AND ALL APPLICABLE STATE AND LOCAL CODES. ALL MATERIALS SHALL BE NEW AND UNLISTED/LABELED AS APPROPRIATE. FINAL LOCATIONS FOR ROUGH-INS SHALL BE VERIFIED WITH ACTUAL EQUIPMENT BEING CONNECTED. 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. CONDUCTORS #10 AND SMALLER SHALL BE SOLID.

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

**COLOR CODING (480/277 V, 3φ):** A-YELLOW, B-BROWN, C-ORANGE, N-WHITE, G-GREEN  
**COLOR CODING (120/240 V, 1φ):** A-BLACK, B-RED, N-WHITE, G-GREEN

**RACEWAYS** - CONDUIT BODIES AND FITTINGS FOR RIGID METAL CONDUIT SHALL BE CAST THREADED TYPE. CONDUIT FITTINGS FOR ELECTRICAL METALLIC TUBING SHALL BE COMPRESSION TYPE. INSTALL 200 lb NYLON PULL CORD IN ALL EMPTY RACEWAYS FOR FUTURE USE. APPLY FIRESTOPPING TO ELECTRICAL PENETRATIONS OF FIRE-RATED FLOOR AND WALL ASSEMBLIES TO RESTORE ORIGINAL FIRE-RESISTANCE RATING OF ASSEMBLY.

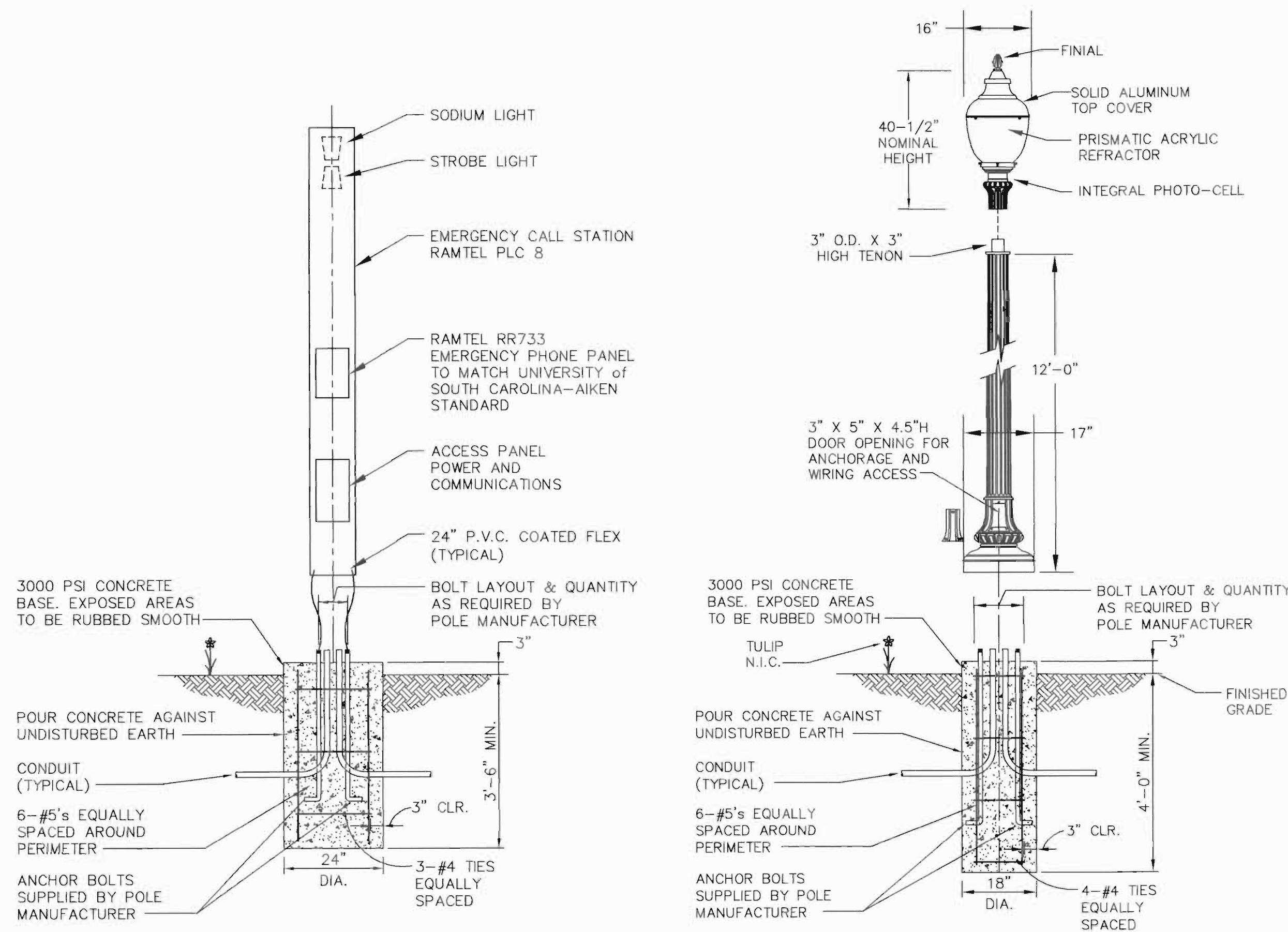
**OUTDOORS EXPOSED:** RIGID GALVANIZED STEEL CONFORMING TO ANSI C80.5  
**OUTDOORS UNDERGROUND:** RIGID NONMETALLIC CONDUIT (SCHEDULE 40 PVC) CONFORMING TO NEMA TC 2

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

**ELECTRICAL IDENTIFICATION** - IN ADDITION TO CODE-REQUIRED LABELING, ALL PANELBOARDS, ELECTRICAL ENCLOSURES, TRANSFORMERS, AND DISCONNECT SWITCHES SHALL BE IDENTIFIED WITH AN ENGRAVED PLASTIC LAMINATED NAMEPLATE. LETTERING SHALL BE 1/2" INCHES HIGH AND SHALL BE WHITE ON A BLACK BACKGROUND. NAMEPLATES SHALL BE ATTACHED TO EQUIPMENT WITH STAINLESS STEEL SELF-TAPPING SCREWS.

**GROUNDING** - GROUNDING AND BONDING COMPONENTS SHALL COMPLY WITH UL 467. AN INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED WITH CIRCUIT CONDUCTORS FOR ALL FEEDER AND 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.

**PANELBOARD** - PANELBOARD SHALL COMPLY WITH NEMA PB 1. SHOP DRAWINGS FOR EACH PANELBOARD SHALL BE SUBMITTED AND SHALL INCLUDE BUS CONFIGURATION AND CURRENT RATINGS, OVERCURRENT DEVICE ARRANGEMENT AND SETTINGS, AND PANELBOARD SHORT CIRCUIT RATING. AN EQUIPMENT GROUND BUS SHALL BE PROVIDED AND SHALL BE BONDED TO THE PANEL BOX. PANELBOARDS WITH A MAIN SERVICE DISCONNECT SHALL BE LISTED FOR USE AS SERVICE EQUIPMENT. CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE. CIRCUIT BREAKERS SHALL BE LISTED FOR SWD, HID OR HACR USE AS APPROPRIATE. MULTIPOLAR CIRCUIT BREAKERS SHALL HAVE A COMMON TRIP. TANDEM CIRCUIT BREAKERS SHALL NOT BE USED. FILLER PLATES SHALL BE INSTALLED IN UNUSED SPACES. A TYPED CIRCUIT DIRECTORY SHALL BE INSTALLED ON THE INSIDE OF THE PANELBOARD DOOR.



**1** DETAIL  
**E201** EMERGENCY CALL STATION  
 SCALE: 1/2" = 1'-0"

**2** DETAIL  
**E201** FIXTURE TYPES PL  
 SCALE: 1/2" = 1'-0"

### REFERENCE DRAWINGS:

- G001 COVER SHEET
- VD001 EXISTING CONDITIONS AND DEMOLITION PLAN - 1 OF 3
- VD002 EXISTING CONDITIONS AND DEMOLITION PLAN - 2 OF 3
- VD003 EXISTING CONDITIONS AND DEMOLITION PLAN - 3 OF 3
- C101 LAYOUT, STAKING, AND EROSION CONTROL PLAN - 1 OF 3
- C102 LAYOUT, STAKING, AND EROSION CONTROL PLAN - 2 OF 3
- C103 LAYOUT, STAKING, AND EROSION CONTROL PLAN - 3 OF 3
- C201 MISCELLANEOUS NOTES AND DETAILS - 1 OF 2
- L101 LANDSCAPE PLAN
- E101 PARTIAL ELECTRICAL SITE PLAN - 1 OF 3
- E102 PARTIAL ELECTRICAL SITE PLAN - 2 OF 3
- E103 PARTIAL ELECTRICAL SITE PLAN - 3 OF 3
- E202 PANEL DETAILS AND RISER DIAGRAMS

REV	DATE	BY	DESCRIPTION
0	8/27/11	RBS	ISSUED FOR BID

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JHW	11/01/10	RBS	11/05/10	



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Project Number H29-1332  
**ELECTRICAL DETAILS**

**JOHNSON, LASCHOBEN & ASSOCIATES, P.C.**  
1296 BROAD STREET, AUGUSTA, GEORGIA 30901  
TEL (706) 724-5756 FAX (706) 724-3955

SCALE	DATE	PROJECT NO.	DRAWING NO.	REV.
AS NOTED	8/25/10	6930.1002	<b>E201</b>	<b>0</b>

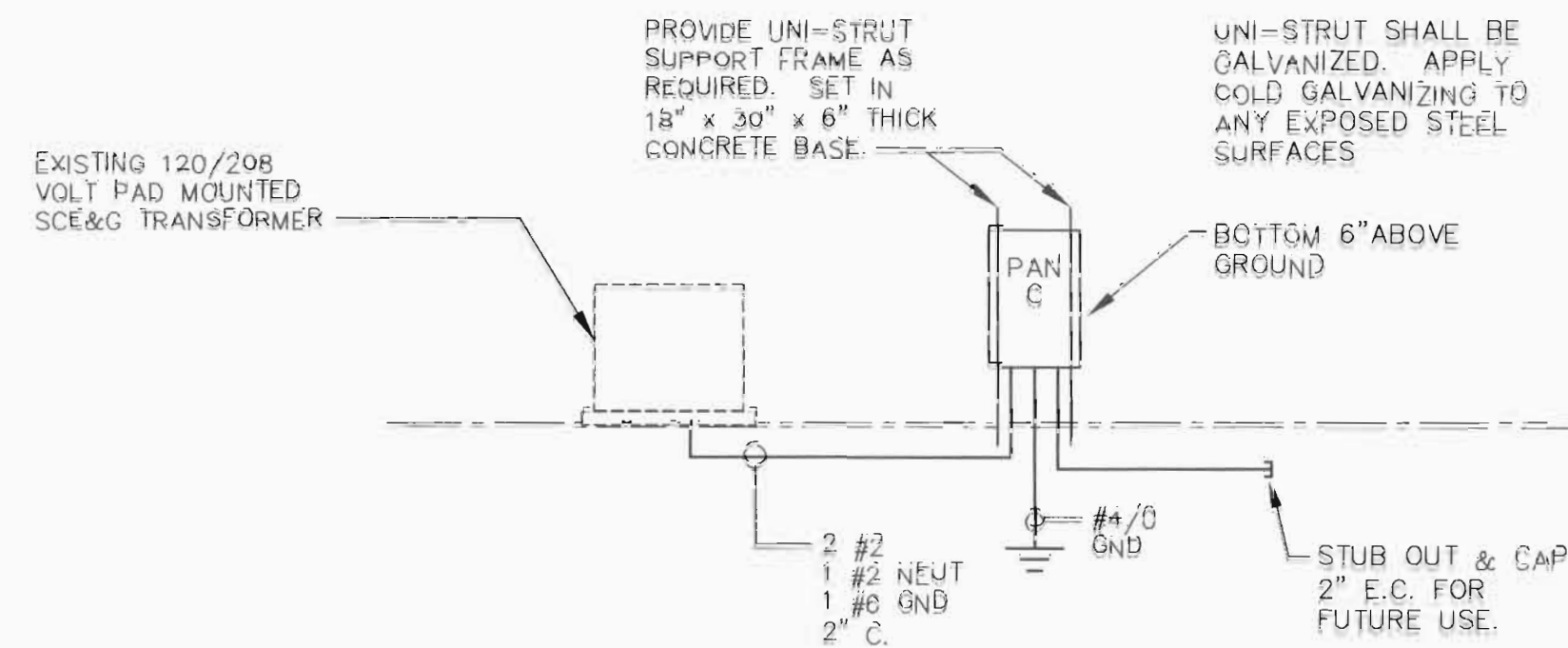
PANEL C SCHEDULE

VOLTAGE (L-N):		120	VOLTAGE (L-L):		240V	TYPE NEMA 3R SURFACE MOUNTING				
PHASES, WIRES:		1 φ 3 W		MIN SCC: 10000 A.I.C.		FED FROM ----				
MINIMUM BUS CAPACITY (A):		100 A	MAIN SIZE (A):		100 A	MAIN TYPE: MCB				
CKT NO	TRIP AMPS	POLES	DESCRIPTION	PHASE LOADS (VA)		DESCRIPTION	POLES	TRIP AMPS	CKT NO	
				A	B					
1	20	1	POST LIGHTS	688						
3	20	1	POST LIGHTS	0	288	SPARE BREAKER	1	20	2	
5	20	1	SPARE BREAKER	0	0	SPARE BREAKER	1	20	4	
7	20	1	SPACE ONLY	0	0	SPARE BREAKER	1	20	6	
9	20	1	SPACE ONLY	0	0	SPACE ONLY	1	20	8	
11	20	1	SPACE ONLY	0	0	SPACE ONLY	1	20	10	
CONNECTED LOAD PHASE TOTALS (VA)				688	288	= 976				
CONNECTED LOAD PHASE TOTALS (AMPS)				6	2					

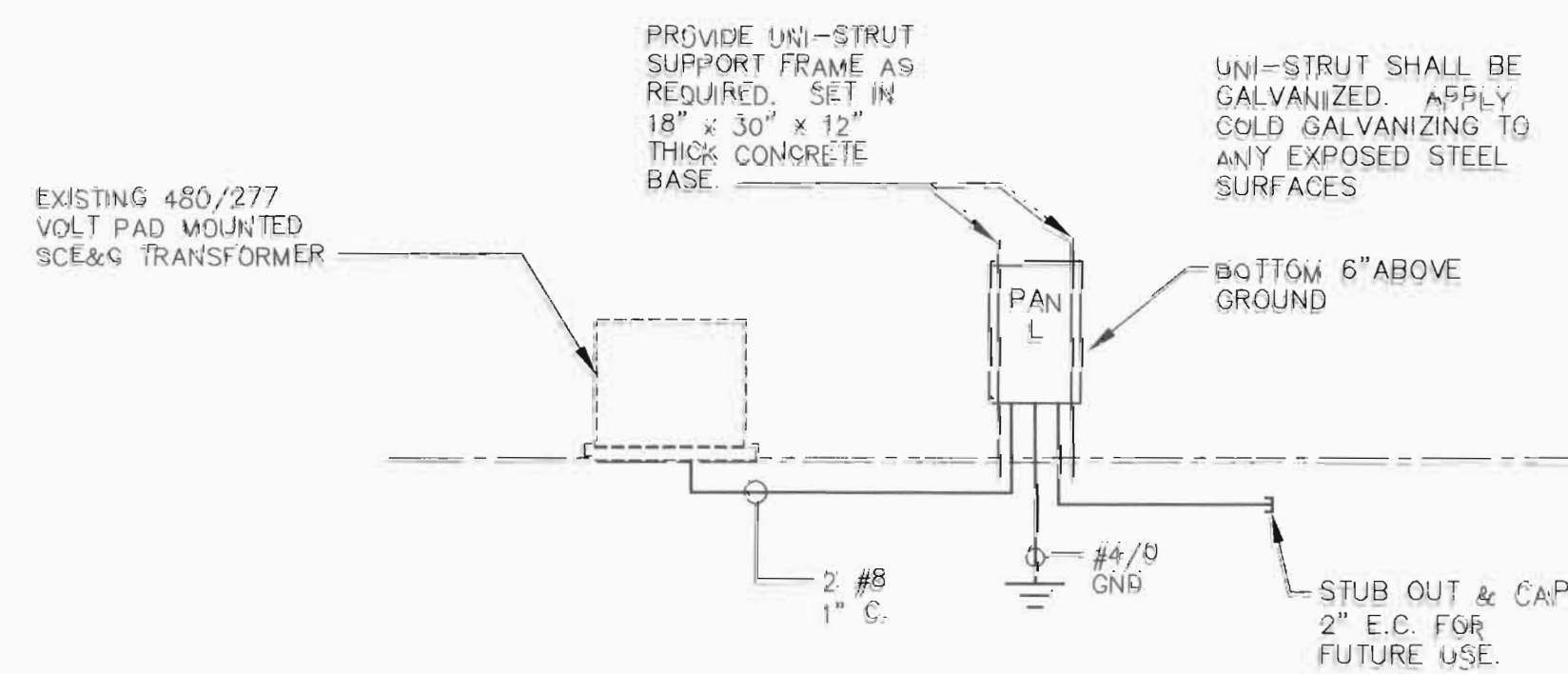
PANEL L SCHEDULE

VOLTAGE (L-N):		120	VOLTAGE (L-L):		240V	TYPE NEMA 3R SURFACE MOUNTING				
PHASES, WIRES:		1 φ 3 W		MIN SCC: 10000 A.I.C.		FED FROM ----				
MINIMUM BUS CAPACITY (A):		100 A	MAIN SIZE (A):		60 A	MAIN TYPE: MCB				
CKT NO	TRIP AMPS	POLES	DESCRIPTION	PHASE LOADS (VA)		DESCRIPTION	POLES	TRIP AMPS	CKT NO	
				A	B					
1	20	1	POST LIGHTS	592						
3	20	1	POST LIGHTS	0	1168	SPARE BREAKER	1	20	2	
5	20	1	SPARE BREAKER	0	0	SPARE BREAKER	1	20	4	
7	20	1	SPACE ONLY	0	0	SPACE ONLY	1	20	6	
9	20	1	SPACE ONLY	0	0	SPACE ONLY	1	20	8	
11	20	1	SPACE ONLY	0	0	SPACE ONLY	1	20	10	
CONNECTED LOAD PHASE TOTALS (VA)				592	1168	= 1760				
CONNECTED LOAD PHASE TOTALS (AMPS)				5	10					

PANEL L SHALL BE COMBINATION TRANSFORMER PANELBOARD EQUAL TO SQUARE D MPZ10S40F



1 POWER RISER DIAGRAM  
SCALE: NONE



2 POWER RISER DIAGRAM  
SCALE: NONE

Standard Square D brand QO plug-on branch circuit breakers or Qwik-Gard ground fault circuit breakers may be ordered from any Schneider Electric distributor as required.

Shunt trip capability on the primary circuit breaker is available by special order if your local fire department requires remote tripping provisions where used as service equipment.

UL Listed, electrostatically shielded Mini Power-Zone units are also available by special order.

Labels in the diagram include: Mounting brackets, Lifting eyes, Transformer, Durable, permanently legible nameplate, Hinged cover - weather-protective with horizontal locking feature, Ample knockouts accessible through bottom of enclosure, Primary main circuit breaker, Secondary main circuit breaker, Neutral assembly, Wiring space, Ground bar, Service ground conductor, Back plate.

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REFERENCE DRAWINGS:

- SD01 COVER SHEET
- WD001 EXISTING CONDITIONS AND DEMOLITION PLAN - 1 OF 3
- VD002 EXISTING CONDITIONS AND DEMOLITION PLAN - 2 OF 3
- VD003 EXISTING CONDITIONS AND DEMOLITION PLAN - 3 OF 3
- C101 LAYOUT, STAKING, AND EROSION CONTROL PLAN - 1 OF 3
- C102 LAYOUT, STAKING, AND EROSION CONTROL PLAN - 2 OF 3
- C103 LAYOUT, STAKING, AND EROSION CONTROL PLAN - 3 OF 3
- C201 MISCELLANEOUS NOTES AND DETAILS - 1 OF 2
- LD01 LANDSCAPE PLAN
- E101 PARTIAL ELECTRICAL SITE PLAN - 1 OF 3
- E102 PARTIAL ELECTRICAL SITE PLAN - 2 OF 3
- E103 PARTIAL ELECTRICAL SITE PLAN - 3 OF 3
- E201 ELECTRICAL DETAILS

REV	DATE	BY	DESCRIPTION
0	9/2/11	RBS	ISSUE FOR RFB

REVISIONS:

DRAWN BY:	JHW	DATE:	11/07/10	CHECKED BY:	RBS	DATE:	11/05/10
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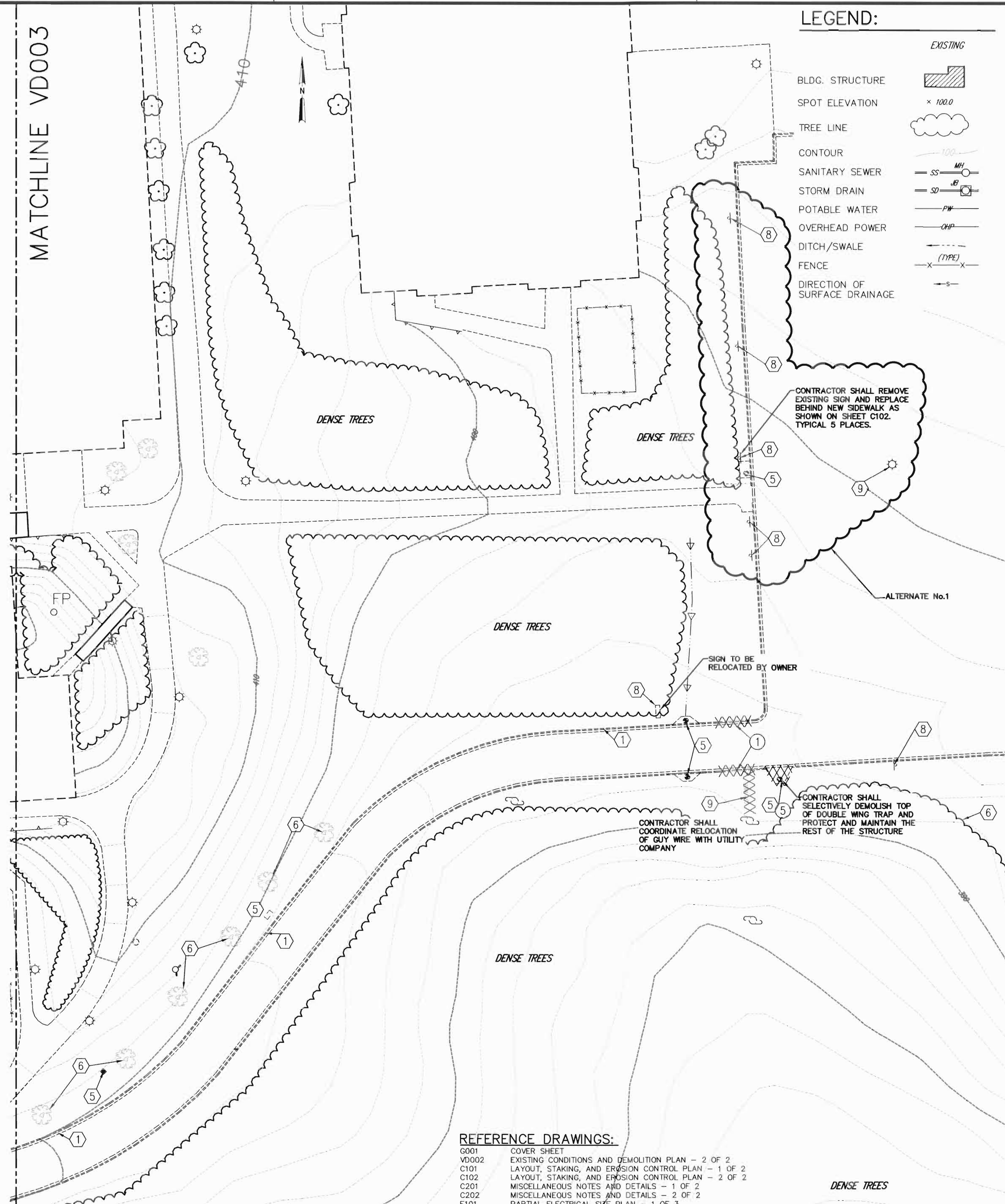
USC AIKEN PEDESTRIAN SAFETY IMPROVEMENTS  
Project Number H29-1332

**PANEL DETAILS AND RISER DIAGRAMS**

JOHNSON, LASCHOBER & ASSOCIATES, P.C.  
1300 BROAD STREET  
TEL: (706) 724-9256  
AUGUSTA, GEORGIA 30901  
FAX: (706) 724-3955

SCALE	DATE	PROJECT NO.	DRAWING NO.	REV.
AS NOTED	8/23/10	6306 1002	<b>E202</b>	<b>0</b>

MATCHLINE VD003



**LEGEND:**

- EXISTING
- BLDG. STRUCTURE
- SPOT ELEVATION  $\times 100.0$
- TREE LINE
- CONTOUR
- SANITARY SEWER
- STORM DRAIN
- POTABLE WATER
- OVERHEAD POWER
- DITCH/SWALE
- FENCE
- DIRECTION OF SURFACE DRAINAGE

**DEMOLITION LEGEND:**

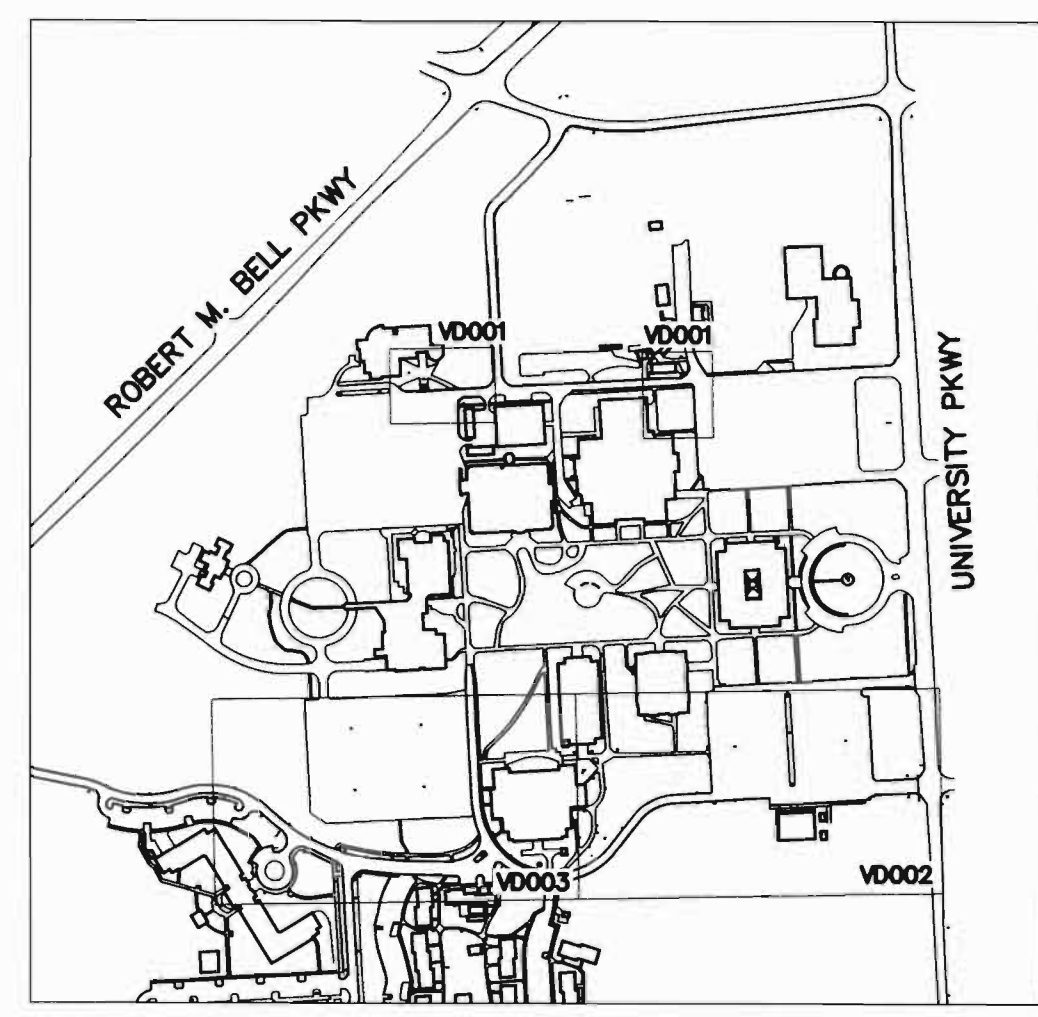
- XXXXXX (1) TO BE REMOVED
- (#) PROTECT & MAINTAIN
- /////// (1) TO BE MILLED
- 1 CONC. PAVEMENT/PAD/SIDEWALK (SAWCUT OR REMOVE FROM NEAREST JOINT)
- 2 ASPHALT PAVEMENT (REMOVAL OR REPLACEMENT, SEE LAYOUT PLAN)
- 3 PAVEMENT MARKINGS
- 4 FENCE/GATE
- 5 UTILITY STRUCTURE/PIPE
- 6 TREES/VEGETATION
- 7 BUILDINGS/STRUCTURES
- 8 SIGNS
- 9 LIGHTING/POWER

**DEMOLITION NOTES:**

1. ALL ITEMS TO BE DEMOLISHED ARE DOUBLE HATCHED; ITEMS TO BE ABANDONED (IF ANY) ARE SINGLE HATCHED.
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 DIRECTION.
5. CONTRACTOR SHALL MAINTAIN AND PROVIDE SAFE INGRESS/EGRESS TO BUILDING DURING HOURS OF OPERATION. CONTRACTOR SHALL COORDINATE THIS WORK WITH PROGRAM DIRECTOR AND/OR BUILDING MANAGER.

**BASE BID AND ALTERNATE ITEM:**

SCOPE OF BASE BID INCLUDES ALL PROPOSED WORK ALONG THE PACER DOWNS CORRIDOR SHOWN ON SHEETS VD001, VD002, C101, C102, E101, E102 AND E103 UP TO THE SCDOT RIGHT-OF-WAY. PLEASE NOTE THAT THIS EXCLUDES PROPOSED WORK IN THE ADJACENT PARKING LOT ON SHEETS C101 AND E102 THAT IS DESIGNATED AS ALTERNATE No.1.



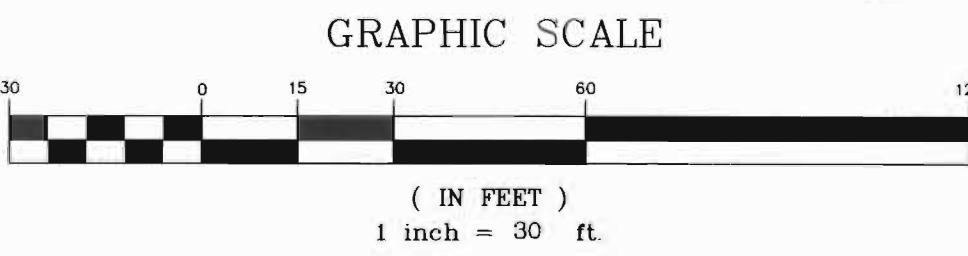
**KEY PLAN**

SCALE: 1"=500'

**REFERENCE DRAWINGS:**

- G001 COVER SHEET
- VD002 EXISTING CONDITIONS AND DEMOLITION PLAN - 2 OF 2
- C101 LAYOUT, STAKING, AND EROSION CONTROL PLAN - 1 OF 2
- C102 LAYOUT, STAKING, AND EROSION CONTROL PLAN - 2 OF 2
- C201 MISCELLANEOUS NOTES AND DETAILS - 1 OF 2
- C202 MISCELLANEOUS NOTES AND DETAILS - 2 OF 2
- E101 PARTIAL ELECTRICAL SITE PLAN - 1 OF 3
- E102 PARTIAL ELECTRICAL SITE PLAN - 2 OF 3
- E103 PARTIAL ELECTRICAL SITE PLAN - 3 OF 3
- E201 ELECTRICAL DETAILS
- E202 PANEL DETAILS AND RISER DIAGRAMS

**EXISTING CONDITIONS AND DEMOLITION PLAN - 1 OF 2**



**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.



REV	DATE	BY	DESCRIPTION
0	8/02/11	DRP	ISSUED FOR BID

REV	DATE	BY	DESCRIPTION

DRAWN BY: ZKD DATE: 8/25/10 CHECKED BY: DRP DATE: 6/13/11



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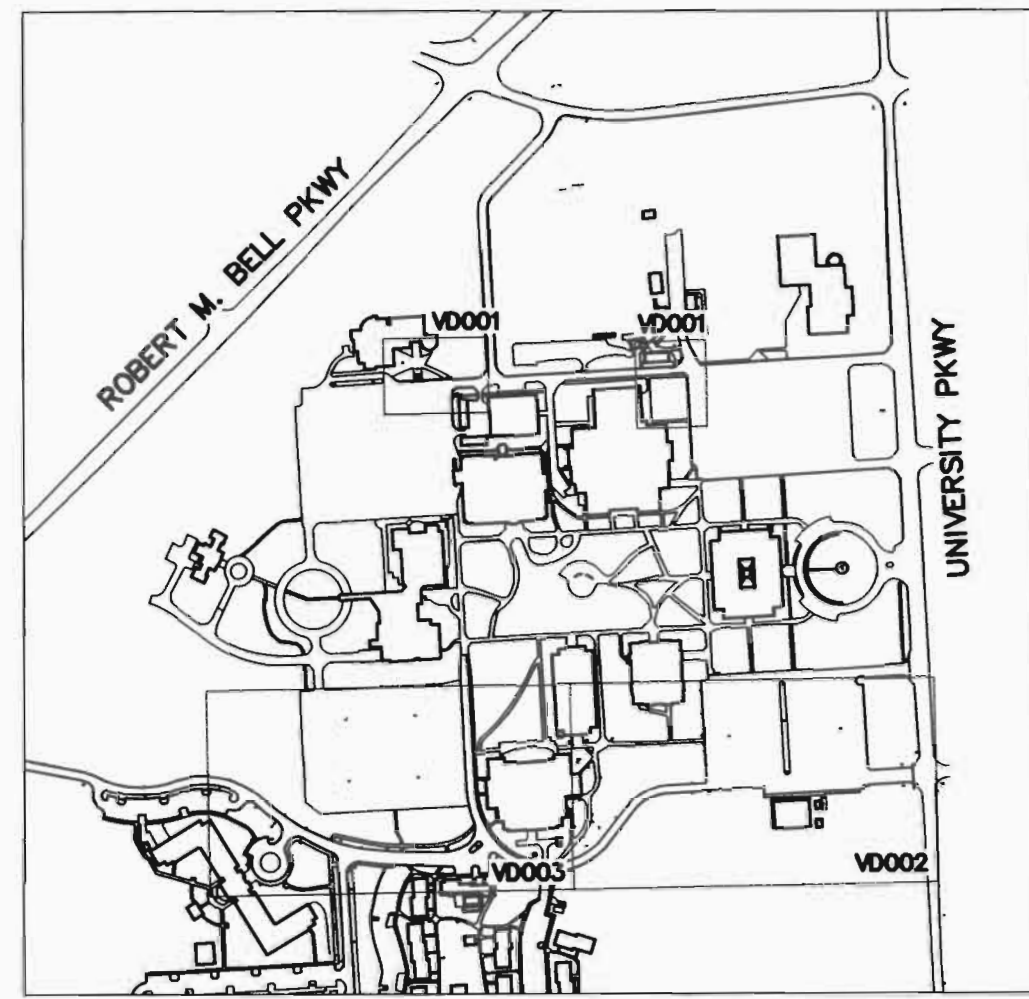
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Project Number H29-1332

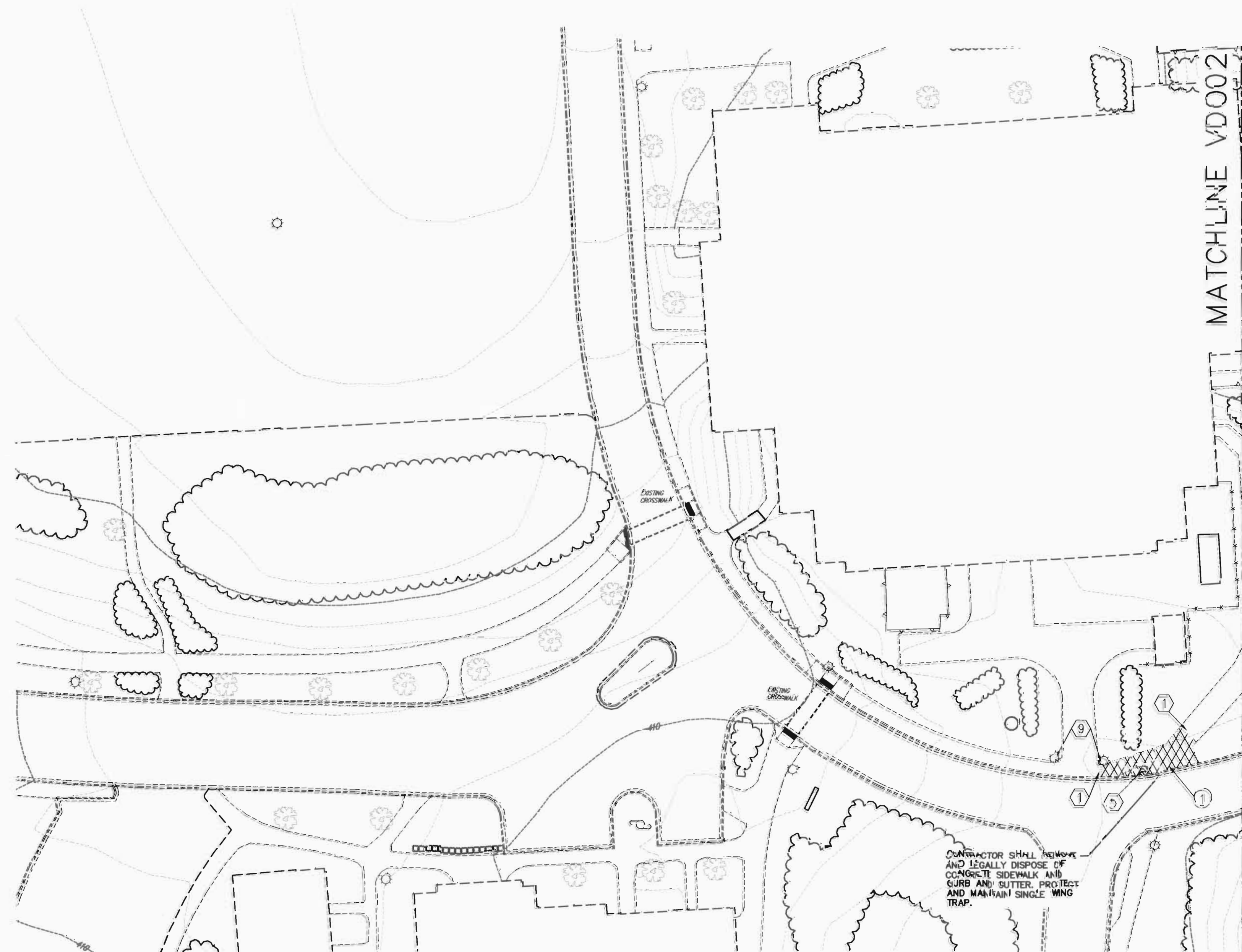
**EXISTING CONDITIONS AND DEMOLITION PLAN - 1 OF 2**

JOHNSON, LASCHOBER & ASSOCIATES, P.C.  
1296 BROAD STREET AUGUSTA, GEORGIA 30901  
TEL (706) 724-3756 FAX (706) 724-3953

SCALE	DATE	PROJECT NO.	DRAWING NO.	REV.
1"=30'	8/25/10	6930.1002	VD001	0



**KEY PLAN**  
SCALE: 1"=500'



**DEMOLITION NOTES:**

1. ALL ITEMS TO BE DEMOLISHED ARE DOUBLE HATCHED, ITEMS TO BE ABANDONED (IF ANY) ARE SINGLE HATCHED.
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4. ALL DEMOLISHED ITEMS TO BE REMOVED FROM SITE & DISPOSED OF IN LEGAL MANNER OR UPON OWNER'S DIRECTION.

**DEMOLITION LEGEND:**

- XXXXXX # TO BE REMOVED
  - ◊ # PROTECT & MAINTAIN
  - /////// # TO BE MILLED
- 1 CONC. PAVEMENT/PAD/SIDEWALK (SAWCUT OR REMOVE FROM NEAREST JOINT)
  - 2 ASPHALT PAVEMENT (REMOVAL OR REPLACEMENT, SEE LAYOUT PLAN)
  - 3 PAVEMENT MARKINGS
  - 4 FENCE/GATE
  - 5 UTILITY STRUCTURE/PIPE
  - 6 TREES/VEGETATION (NOT HATCHED FOR CLARITY, SEE CLEARING LIMITS)
  - 7 BUILDINGS/STRUCTURES
  - 8 SIGNS
  - 9 LIGHTING/POWER

**LEGEND:**

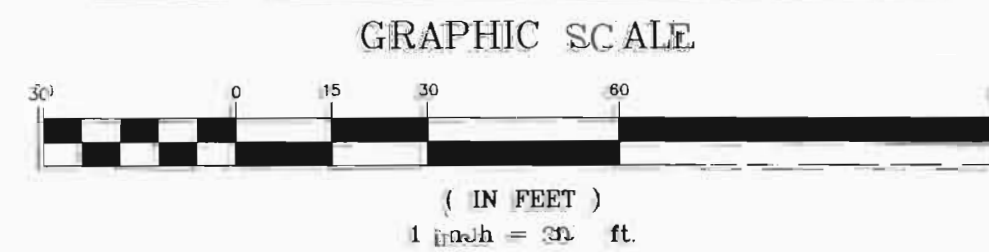
- EXISTING**
- BLDG. STRUCTURE
  - SPOT ELEVATION  $\times 100.0$
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  - DIRECTION OF SURFACE DRAINAGE

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**REFERENCE DRAWINGS:**

- G001 COVER SHEET
- VD001 EXISTING CONDITIONS AND DEMOLITION PLAN - 1 OF 2
- C101 LAYOUT, STAKING, AND EROSION CONTROL PLAN - 1 OF 2
- C102 LAYOUT, STAKING, AND EROSION CONTROL PLAN - 2 OF 2
- C201 MISCELLANEOUS NOTES AND DETAILS - 1 OF 2
- C202 MISCELLANEOUS NOTES AND DETAILS - 2 OF 2
- E101 PARTIAL ELECTRICAL SITE PLAN - 1 OF 3
- E102 PARTIAL ELECTRICAL SITE PLAN - 2 OF 3
- E103 PARTIAL ELECTRICAL SITE PLAN - 3 OF 3
- E201 ELECTRICAL DETAILS
- E202 PANEL DETAILS AND RISER DIAGRAMS

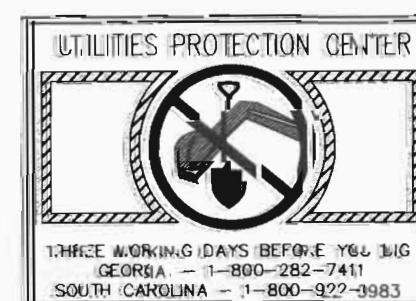
**EXISTING CONDITIONS AND DEMOLITION PLAN - 2 OF 2**



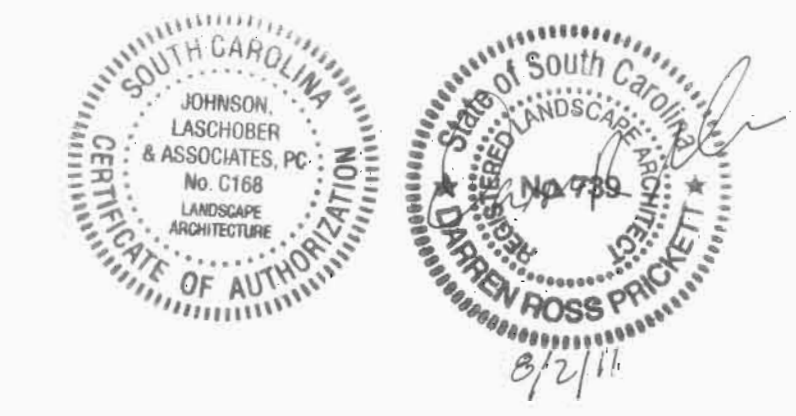
REV	DATE	BY	DESCRIPTION
01	8/02/11	DRP	ISSUED FOR BID

REVISIONS			
DATE	BY	DESCRIPTION	DATE
8/25/10	DRP		6/13/11



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USC AIKEN  
AIKEN, SOUTH CAROLINA

USC AIKEN PEDESTRIAN SAFETY IMPROVEMENTS  
Project Number H29-1332

**EXISTING CONDITIONS AND DEMOLITION PLAN - 2 OF 2**

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SCALE	DATE	PROJECT NO.	DRAWING NO.	REV.
1"=30'	8/25/10	6930.1062	VD002	0