

DOUGLAS PARK CORRECTIVE ACTION PLAN

2795 SW 37TH AVENUE
MIAMI, FLORIDA 33133
DECEMBER 2015

PREPARED FOR:

CITY OF MIAMI
CAPITAL IMPROVEMENTS PROGRAM
444 SW 2ND AVENUE
MIAMI, FLORIDA 33130



COMMISSION:

TOMAS P. REGALADO - MAYOR
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FRANCIS SUAREZ - COMMISSIONER
DANIEL J. ALFONSO - CITY MANAGER



S:16 T:54 S R:41 E
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NTS



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I. GENERAL DESCRIPTION OF WORK

- A. THE WORK GENERALLY CONSISTS OF THE CORRECTIVE ACTIONS TO ADDRESS CONTAMINATION AT THE CITY OF MIAMI'S DOUGLAS PARK SITE. INCLUDED IN THE WORK IS THE FOLLOWING:
 - 1. SELECTIVE REMOVAL AND REPLACEMENT OF STRUCTURES AND OTHER PARK FEATURES AND THEIR FOUNDATIONS.
 - 2. REMOVAL AND REPLACEMENT OF EXISTING WALKWAYS WITHIN THE PARK.
 - 3. IMPROVEMENTS TO EXISTING PARKING LOT, WHICH INCLUDES BUT IS NOT LIMITED TO EXCAVATION AND REPLACEMENT OF THE EXISTING ASPHALT, BASE AND SUBGRADE MATERIAL.
 - 4. REMOVAL OF EXISTING BASEBALL FIELD, DUGOUTS, ASSOCIATED BLEACHER PADS AND EXISTING IRRIGATION SYSTEM.
 - 5. INSTALLATION OF BASEBALL MIXED USE FIELD, WHICH INCLUDES BUT NOT LIMITED TO ASSOCIATED BLEACHERS, DUGOUTS, FENCING AND IRRIGATION.
 - 6. EXCAVATION OF BETWEEN 12" - 14.5" OF POTENTIALLY CONTAMINATED SOIL FROM SPECIFIED AREAS OF THE PARK AND RELOCATING IT TO A SPECIFIED LOCATION WHERE IT WILL BE USED TO RE-GRADE THE AREA PRIOR TO ADDING A LINER AND ANY CLEAN FILL. EXCESS EXCAVATED MATERIAL SHALL BE HAULED OFF SITE TO A CLASS I LANDFILL.
 - 7. EXCAVATION OF POTENTIALLY CONTAMINATED SOIL AROUND TREES AND PRUNING ROOTS AS DIRECTED BY THE OWNER'S DESIGNATED ARBORIST.
 - 8. INSTALLATION OF A GSE BENTOLINER EC GEOSYNTHETIC CLAY LINER (GCL) OR EQUIVALENT MATERIAL BETWEEN EXISTING SOIL TO REMAIN AND CLEAN FILL WHERE SPECIFIED.
 - 9. INSTALLING 2.5" OF BONDED RUBBER MULCH OVER 12" OF CLEAN FILL AROUND SPECIFIED TREES.
 - 10. INSTALLING POURED IN PLACE RUBBER SURFACING FOR PROPOSED PLAYGROUND AND OUTDOOR GYM.
 - 11. INSTALLING SELECTED SOD OVER 12" MINIMUM OF CLEAN FILL IN REMAINING AREAS.
- B. REFER TO THE FULL SET OF CONSTRUCTION PLANS FOR CONSTRUCTION DETAILS AND SPECIFICATIONS.
- C. THE OWNER OF THE PROJECT IS THE CITY OF MIAMI.

II. APPLICABLE CODES

- A. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES APPLICABLE TO THE WORK, INCLUDING, BUT NOT LIMITED TO BUILDING AND CONSTRUCTION CODES, ENVIRONMENTAL CODES, AND HEALTH AND SAFETY CODES.
- B. THE CONTRACTOR SHALL NOTE THAT A PORTION OF THE PROPOSED CONSTRUCTION ACTIVITIES IS WITHIN CONTAMINATED AREAS OF THE SITE AND THE POTENTIAL FOR EXPOSURE TO HAZARDOUS MATERIALS EXISTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN AND REVIEW THE AVAILABLE INFORMATION ON THE EXISTING CONTAMINATION PRESENT AT THE SITE AND COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL HEALTH AND SAFETY REGULATIONS (E.G., OSHA, ETC.). DOCUMENTS RELEVANT TO THE CONTAMINATION AT THE SITE CAN BE OBTAINED VIA MIAMI-DADE COUNTY'S DEPARTMENT OF PERMITTING, ENVIRONMENT AND REGULATORY AFFAIRS PUBLIC RECORDS SECTION (DERM REFERENCE "HWR-773")
- B. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF MIAMI-DADE COUNTY, CITY OF MIAMI, AND FLORIDA DEPARTMENT OF TRANSPORTATION.
- C. ALL CONSTRUCTION SHALL BE ACCOMPLISHED IN A SAFE MANNER AND IN STRICT COMPLIANCE WITH ALL THE REQUIREMENTS OF THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, AND ALL STATE AND LOCAL SAFETY AND HEALTH REGULATIONS.
- D. ALL ELEVATIONS SHOWN ON THE CONSTRUCTION DRAWINGS ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (N.G.V.D.), UNLESS OTHERWISE NOTED. CONTRACTOR TO REFER TO MIAMI-DADE COUNTY DATUM ELEVATIONS AND ALL MIAMI-DADE COUNTY REFERENCE MONUMENTS LOCATED IN THE STREET RIGHT OF WAY.

III. SEQUENCE OF ACTIVITIES

- 1. SETUP TEMPORARY CONSTRUCTION FENCING AND STORMWATER POLLUTION PREVENTION DEVICES.
- 2. DEMOLISH AND REMOVE EXISTING SPECIFIED STRUCTURES.
- 3. EXCAVATE EXISTING CONTAMINATED SOILS AND REGRADE POTENTIALLY CONTAMINATED SOIL AS PER PLANS.
- 4. INSTALL UNDERGROUND UTILITIES GOING UNDER PROPOSED LINER.
- 5. REMOVE AND RECONSTRUCT PARKING LOT WITH FIRST LIFT OF ASPHALT.
- 6. INSTALL BENTOLINER EC GEOSYNTHETIC CLAY LINER WHERE SPECIFIED.
- 7. BACKFILL 12" OF CLEAN FILL ABOVE GEOTEXTILE AND 12" OF CLEAN FILL IN TREE PROTECTION AREA.
- 8. INSTALL ASPHALT WALKWAYS AND PEDESTRIAN AND PARKING LOT LIGHTING.
- 9. INSTALL PLAYGROUND AND OUTDOOR GYM EQUIPMENT AND BASEBALL FIELD BLEACHER PADS AND DUGOUTS.
- 10. INSTALLING 2.5" OF POURED IN PLACE RUBBERIZED PLAYGROUND SURFACING AND GYM SURFACING WITHIN THE ENTIRE LIMITS OF THE PROPOSED PLAYGROUND AND OUTDOOR GYM.
- 11. INSTALLING 2.5" OF BONDED RUBBER MULCH OVER 12" OF CLEAN FILL AROUND SPECIFIED TREES.
- 12. INSTALLING EITHER 2.5" OF BONDED RUBBER MULCH OR SELECTED SOD IN REMAINING AREAS WITHIN PROJECT BOUNDARY.

IV. DEMOLITION NOTES

- A. DRAIN, PURGE, OR OTHERWISE REMOVE, COLLECT, AND DISPOSE OF CHEMICALS, GASES, EXPLOSIVES, ACIDS, FLAMMABLES, OR OTHER DANGEROUS MATERIALS BEFORE PROCEEDING WITH DEMOLITION OPERATIONS.
- B. CONDUCT DEMOLITION OPERATIONS AND REMOVE DEBRIS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED AND USED FACILITIES.
- C. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER ADJACENT OCCUPIED OR IN-USE FACILITIES WITHOUT PERMISSION FROM OWNER, THE CITY AND AUTHORITIES HAVING JURISDICTION. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS AS REQUIRED BY GOVERNING REGULATIONS.
- D. CONDUCT DEMOLITION OPERATIONS TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDINGS AND FACILITIES TO REMAIN. ENSURE SAFE PASSAGE OF PEOPLE AROUND DEMOLITION AREA.
- E. ERECT TEMPORARY PROTECTION, SUCH AS WALKS, FENCES, BARRIERS, RAILINGS, ETC. WHERE REQUIRED BY AUTHORITIES HAVING JURISDICTION.
- F. PROTECT EXISTING SITE IMPROVEMENTS, APPURTENANCES, AND LANDSCAPING TO REMAIN.
- G. ADJACENT IMPROVEMENTS SHALL BE CLEANED OF DUST, DIRT, AND DEBRIS CAUSED BY DEMOLITION OPERATIONS. RETURN ADJACENT AREAS TO CONDITION EXISTING BEFORE START OF DEMOLITION.
- H. FOR SELECTIVE DEMOLITION, USE CUTTING METHODS LEAST LIKELY TO DAMAGE CONSTRUCTION TO REMAIN OR ADJOINING CONSTRUCTION. TO MINIMIZE DISTURBANCE OF ADJACENT SURFACES, USE HAND OR SMALL POWER TOOLS DESIGNED FOR SAWING OR GRINDING, NOT HAMMERING OR CHOPPING. TEMPORARILY COVER OPENINGS TO REMAIN.
- I. DEMOLISH CONCRETE IN SMALL SECTIONS. CUT CONCRETE AT JUNCTIONS WITH CONSTRUCTION TO REMAIN, USING POWER-DRIVEN MASONRY SAW OR HAND TOOLS; DO NOT USE POWER-DRIVEN IMPACT TOOLS.
- J. INFORMATION SHOWN ON THE DRAWINGS AS TO THE LOCATION OF EXISTING UTILITIES HAS BEEN PREPARED FROM THE MOST RELIABLE DATA AVAILABLE TO THE ENGINEER; HOWEVER, THIS INFORMATION IS NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE LOCATION, CHARACTER, AND DEPTH OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL ASSIST THE UTILITY COMPANIES, BY EVERY MEANS POSSIBLE, TO DETERMINE SAID LOCATIONS AND THE LOCATIONS OF RECENT ADDITIONS TO THE SYSTEMS NOT SHOWN.
- K. REMOVAL, DEMOLITION, HAULING, AND DISPOSAL SHALL COMPLY WITH REGULATIONS BY F.D.E.P., E.P.A., AND ANY OTHER AUTHORITY HAVING JURISDICTION.
- L. ALL EXISTING UTILITY MANHOLE COVERS, ELECTRICAL BOXES, METER BOXES, METERS, DRAINAGE STRUCTURES, ETC. WITHIN PROPOSED AREAS OF IMPROVEMENTS SHALL BE ADJUSTED TO GRADE ELEVATION, UNLESS OTHERWISE NOTED.

V. PRE-CONSTRUCTION RESPONSIBILITIES

- A. UPON THE RECEIPT OF THE "NOTICE TO PROCEED", THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD AND ARRANGE A PRE-CONSTRUCTION CONFERENCE TO INCLUDE ALL INVOLVED GOVERNMENTAL AGENCIES, UTILITY OWNERS, THE OWNER AND THE ENGINEER OF RECORD.
- B. FOLLOWING THE PRE-CONSTRUCTION CONFERENCE THE CONTRACTOR SHALL SUBMIT TO THE OWNER FOR APPROVAL A CONSTRUCTION SEQUENCING PLAN WHICH SHALL INCLUDE AT A MINIMUM THE FOLLOWING INFORMATION:
 - 1. REMOVAL OF STRUCTURES, PLAYGROUND EQUIPMENT AND FOUNDATIONS
 - 2. EXCAVATION, ON-SITE RELOCATION AND HAULING OF CONTAMINATED SOIL TO A CLASS I LANDFILL
 - 3. REPLACEMENT OF STRUCTURES, PLAYGROUND EQUIPMENT AND FOUNDATIONS
 - 4. PLACEMENT OF GEOSYNTHETIC CLAY LINER AND NON-WOVEN COLORED GEOTEXTILE
 - 5. HAULING AND STAGING OF IMPORTED CLEAN FILL
 - 6. A PLAN TO ENSURE THAT NO CONTAMINATED SOIL IS TRACKED OFFSITE VIA TRUCK OR OTHER EQUIPMENT AND FOR FINAL CLEANING OF ANY EQUIPMENT THAT HAS BEEN EXPOSED TO CONTAMINATED SOIL AND THE CONTAINMENT AND DISPOSAL OF THE RESULTING WASH-WATER.
- C. WITH THE CONTRACTOR'S BID PACKAGE SUBMITTAL THE CONTRACTOR SHALL PROVIDE TO THE OWNER A SITE SPECIFIC HEALTH AND SAFETY PLAN (HASP) FOR EMPLOYEES AND ANY SUBCONTRACTORS. THE OWNER AND/OR ENGINEER MAY COMMENT ON THE HASP AS A COURTESY; HOWEVER, IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DEVELOP AND IMPLEMENT A HASP TO COMPLY WITH ALL APPLICABLE HEALTH AND SAFETY REGULATIONS. A COPY OF THE HASP SHALL BE MAINTAINED AT ALL TIMES AT THE JOBSITE AND BE AVAILABLE FOR INSPECTION BY THE OWNER AND/OR ENGINEER.
- D. THE CONTRACTOR SHALL PROVIDE TO THE OWNER ALL APPLICABLE OSHA CERTIFICATIONS FOR ALL WORKERS THAT MAY BE EMPLOYED AT THE WORK SITE.
- E. THE CONTRACTOR SHALL OBTAIN A SUNSHINE STATE ONE CALL OF FLORIDA, INC. CERTIFICATION NUMBER AND FIELD MARKINGS AT LEAST 48 HOURS PRIOR TO BEGINNING ANY EXCAVATION. CALL 1-800-432-4770.
- F. LOCATION OF EXISTING FACILITIES AS SHOWN ON CONSTRUCTION DRAWINGS ARE DRAWN FROM AVAILABLE RECORDS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE FACILITIES SHOWN OR FOR ANY FACILITY THAT IS NOT SHOWN. THE CONTRACTOR SHALL VERIFY THROUGH VACUUM EXCAVATION & TEST HOLE METHODS, THE ELEVATIONS AND LOCATIONS OF EXISTING FACILITIES PRIOR TO CONSTRUCTION. IF AN EXISTING FACILITY IS FOUND TO CONFLICT WITH THE PROPOSED CONSTRUCTION UPON EXCAVATION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF RECORD SO THAT APPROPRIATE MEASURES CAN BE TAKEN TO RESOLVE THE CONFLICT.

VI. SPECIAL ENVIRONMENTAL REQUIREMENTS

- A. THE CONTRACTOR SHALL IMPLEMENT FEASIBLE ENGINEERING AND WORK PRACTICE CONTROLS TO MINIMIZE EMPLOYEE EXPOSURES TO CONTAMINANTS. A WRITTEN COMPLIANCE PROGRAM DETAILING HOW CONTAMINANT EXPOSURES WILL BE CONTROLLED SHALL BE SUBMITTED TO THE OWNER.
 - B. IN ORDER TO LIMIT THE FUGITIVE DUST FROM CONTAMINATED SOILS AND INCIDENTAL EXPOSURE THE CONTRACTOR SHALL SECURELY COVER AREAS OF EXPOSED CONTAMINATED SOIL (IN-SITU OR STOCKPILED) AT THE END OF EACH DAY WITH PLASTIC SHEETING.
 - C. A SOIL MANAGEMENT PLAN WHICH SHALL INCLUDE A HEALTH SAFETY PLAN AND DUST CONTROL / AIR MONITORING PLAN SHALL BE SUBMITTED TO DERM FOR REVIEW AND APPROVAL PRIOR TO START OF ACTIVITIES INVOLVING THE DISTURBANCE OF CONTAMINATED SOIL.
 - D. THE CONTRACTOR SHALL STOCKPILE CONTAMINATED SOIL IN DESIGNATED ON-SITE LOCATION(S) AND USE A MINIMUM 10 MIL IMPERMEABLE LINER FOR CONTAINMENT.
 - E. ANY EXCESS CONTAMINATED SOIL EXCAVATED SHALL NOT BE REUSED AND REQUIRES PROPER HANDLING AND DISPOSAL AT A CLASS I LANDFILL IN ACCORDANCE WITH THE LOCAL, STATE, AND FEDERAL REGULATIONS. CONTAMINATED SOIL DISPOSAL DOCUMENTATION (I.E. MANIFESTS) SHALL BE SUBMITTED TO THE OWNER.
 - F. GROUNDWATER MONITORING WELLS TO REMAIN SHALL BE PROTECTED AND REPLACED IF DAMAGED OR DESTROYED AT NO ADDITIONAL COST TO THE OWNER. ANY MONITORING WELLS TO BE DESTROYED SHALL BE PROPERLY ABANDONED WITH DOCUMENTATION SUBMITTED TO THE OWNER.
 - G. THE CONTRACTOR SHALL TAKE NECESSARY MEASURES TO ENSURE THAT FUGITIVE DUST DOES NOT MIGRATE OFFSITE DURING CONSTRUCTION ACTIVITIES. MATERIAL TO BE EXCAVATED OR REGRADED SHALL BE THOROUGHLY WETTED PRIOR TO EXCAVATION TO MINIMIZE DUST GENERATION.
 - H. THE OWNER MAY CHOOSE TO HAVE AN INDEPENDENT PARTY CONDUCT AIR MONITORING AT THE PROJECT/SITE BOUNDARIES TO ENSURE FUGITIVE DUST IS NOT MIGRATING OFFSITE DURING THE EXCAVATION/GRADING OF CONTAMINATED SOILS. IF AIR MONITORING RESULTS SHOW FUGITIVE DUST AT THE PROPERTY BOUNDARY THE CONTRACTOR SHALL IMMEDIATELY CEASE ALL CONSTRUCTION ACTIVITIES AND SUBMIT A WRITTEN CORRECTIVE ACTION PLAN FOR APPROVAL PRIOR TO COMMENCING WITH WORK.
- VII. EARTHWORK NOTES
- A. THE CONTRACTOR'S BID FOR EARTHWORK SHALL INCLUDE THE EXCAVATION, REMOVAL AND DISPOSAL OF ALL MATERIALS, OF WHATEVER CHARACTER, WITHIN THE LIMITS OF CONSTRUCTION.
 - B. WHERE MUCK, ROCK, CLAY, OR OTHER MATERIAL WITHIN THE LIMITS OF CONSTRUCTION IS UNSUITABLE IN ITS ORIGINAL POSITION THE CONTRACTOR SHALL EXCAVATE SUCH MATERIAL IN ITS ENTIRETY AND BACKFILL WITH SUITABLE MATERIAL WHICH SHALL BE COMPACTED IN PLACE TO CONFORM TO THE REQUIRED GRADES AND SECTIONS AS SHOWN ON THE PLANS.
 - C. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE UNSUITABLE MATERIAL PRESENT ON-SITE AND INCLUDE THE REMOVAL AND REPLACEMENT OF SAME IN HIS BID PRICE.
 - D. THE CONTRACTOR SHALL MAKE HIS OWN ESTIMATE ON THE VOLUME OF MATERIAL ACTUALLY REQUIRED TO OBTAIN THE CROSS SECTIONS OR GRADES AS SHOWN ON THE PLANS.
 - E. THE CONTRACTOR SHALL REMOVE ALL MUCK, YIELDING MATERIAL, ROOTS, VEGETATION AND OTHER DEGRADABLE MATERIAL IN ITS ENTIRETY, WITHIN THE PAVEMENT UNITS AND BELOW ALL STRUCTURES AND UTILITIES TO FULL EXCAVATED TRENCH WIDTH. SAID MATERIAL SHALL BE REPLACED WITH CLEAN ORGANIC FREE MATERIAL WITH ROCKS SMALLER THAN ONE INCH IN DIAMETER COMPACTED TO NOT LESS THAN 98% MAXIMUM DENSITY AT OPTIMUM MOISTURE. AASHTO T-180 METHOD "D" WITH MAXIMUM LIFTS OF TWELVE INCHES COMPACTED THICKNESS.
 - F. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING APPROPRIATE SAFETY PRECAUTIONS DURING EXCAVATION AND TRENCHING OPERATIONS AS REQUIRED BY THE "TRENCH SAFETY ACT".
 - G. THIS WORK SHALL INCLUDE THE EXCAVATION OF WHATEVER SUBSTANCES THAT SHALL BE ENCOUNTERED TO THE DEPTHS AS SHOWN ON THE PLANS. EXCAVATED MATERIALS NOT REQUIRED FOR FILL OR BACKFILL SHALL BE REMOVED FROM THE WORK SITE AS DIRECTED BY THE ENGINEER AND SHALL BE CONSIDERED TO BE A PART OF THE BID PRICE OF THE UTILITY PIPE FOR WHICH EXCAVATION AND BACKFILL IS REQUIRED.
 - H. WATER SHALL NOT BE PERMITTED TO ACCUMULATE IN THE EXCAVATED AREA. IT SHALL BE REMOVED BY PUMPING OR OTHER MEANS AS APPROVED BY THE ENGINEER. THE REMOVAL OF WATER SHALL BE CONSIDERED TO BE A PART OF THE BID PRICE OF THE UTILITY PIPE FOR WHICH EXCAVATION AND BACKFILL IS REQUIRED. CONTRACTOR TO OBTAIN DEWATERING PERMITS FROM APPLICABLE JURISDICTIONAL AGENCIES (MIAMI-DADE DERM, SFWMD, ETC.) IF REQUIRED.
 - I. IF THE BOTTOM OF THE TRENCH IS ROCK, THE EXCAVATION SHALL BE CARRIED EIGHT INCHES BELOW THE INVERT OF THE PIPE AND BACKFILLED WITH THOROUGHLY COMPACTED SAND, GRAVEL, OR OTHER SUITABLE MATERIAL APPROVED BY THE ENGINEER.
 - J. ROCK EXCAVATION SHALL INCLUDE ANY ROCK ENCOUNTERED WHICH CANNOT BE REMOVED WITH A 3/4 YARD BACKHOE UNDER NORMAL OPERATING CONDITIONS. ROCK EXCAVATION SHALL BE INCIDENTAL TO CONSTRUCTION OF ALL PIPING SYSTEMS AND NO SEPARATE PAYMENT WILL BE MADE.
 - K. WHENEVER IT IS NECESSARY, IN THE INTEREST OF SAFETY, TO BRACE OR SHORE THE SIDES OF THE TRENCH, SUCH BRACING OR SHORING SHALL BE CONSIDERED TO BE PART OF THE BID PRICE OF UTILITY PIPE FOR WHICH EXCAVATION AND BACKFILL IS REQUIRED.
 - L. THE CONTRACTOR SHALL FURNISH, PUT IN PLACE AND MAINTAIN SUCH SHEETING, BRACING, AS MAY BE REQUIRED TO SUPPORT THE SIDE OF THE EXCAVATION, AND TO PREVENT ANY MOVEMENT WHICH CAN IN ANY WAY DAMAGE THE WORK OR ENDANGER ADJACENT STRUCTURES.
 - M. IF FIELD CONDITIONS, TYPE OF SHEETING OR CONSTRUCTION METHODS MAKE REMOVAL OF SHEETING IMPRACTICABLE, AT NO ADDITIONAL COST TO THE OWNER, THE CONTRACTOR MAY LEAVE ALL SHEETING IN PLACE. THE ENGINEER MAY REQUIRE SHEETING TO BE CUT OFF AT ANY SPECIFIED ELEVATION BUT IN NO CASE WILL ANY SHEETING BE LEFT CLOSER THAN TWO (2) FEET BELOW THE NATURAL SURFACE, NOR CUT OFF BELOW THE ELEVATION OF THE TOP OF THE PIPE.

- N. AFTER PIPES, STRUCTURES, AND OTHER APPURTENANCES HAVE BEEN INSTALLED, THE TRENCH OR OPENING SHALL BE BACKFILLED WITH MATERIAL IN CONFORMANCE WITH THE SPECIFICATION.
- O. IN AREAS WHERE PAVEMENTS ARE TO BE CONSTRUCTED OVER THE PIPE, THE REMAINDER OF THE TRENCH SHALL BE PLACED IN SIX INCH LAYERS (COMPACTED THICKNESS) AND SHALL BE COMPACTED TO 98 PERCENT OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99. CONTRACTOR WILL BE RESPONSIBLE FOR CORRECTING DAMAGE FROM SETTLEMENT IN THE BACKFILLED AREAS WHETHER UNDER THE PAVEMENT OR OTHERWISE.
- P. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING REQUIRED SAFETY BARRIER AND PROTECTIVE STEEL PLATE COVERINGS FOR OPEN TRENCHES.
- Q. SOIL BORING INFORMATION WILL BE PROVIDED TO THE CONTRACTOR. THE SOIL BORING DATA PROVIDED IS FOR THE CONTRACTOR'S INFORMATION. THE ENGINEER DOES NOT MAKE ANY REPRESENTATION REGARDING EXISTING SUBSOIL CONDITIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PERFORM ADDITIONAL SOIL BORINGS TO VERIFY THE LIMITS OF UNSUITABLE MATERIAL ON-SITE.
- R. SEE SOILS EVALUATION OF THE PROJECT AREA ON GEOTECHNICAL INVESTIGATION REPORT TITLED "GEOTECHNICAL STUDY - PROPOSED DOUGLAS PARK IMPROVEMENTS, 2795 SW 37 AVENUE PERFORMED BY NV5 DECEMBER 2015. PROJECT No. 14774 (PHONE 305-666-3563)

VIII. PAVING AND GRADING NOTES

- A. UNDERGROUND UTILITIES SHALL BE COMPLETED OR SLEEVING PROVIDED BEFORE ANY PAVEMENT CONSTRUCTION BEGINS.
- B. ALL EXISTING PAVEMENT, CUT OR DAMAGED BY CONSTRUCTION, SHALL BE PROPERLY RESTORED AT THE CONTRACTOR'S EXPENSE.
- C. CLEAN FILL SHALL BE SOURCED FROM A NATIVE ROCK MINING QUARRY.
- D. ALL PAVEMENT SUBGRADE MATERIAL SHALL BE COMPACTED TO 98% MAXIMUM DENSITY AT OPTIMUM MOISTURE, AASHTO T-180, METHOD "D" AND SHALL CONFORM TO THE REQUIREMENTS OF F.D.O.T. SPECIFICATIONS, SECTION 120. THE TEST RESULTS SHALL BE ACCEPTED BY THE CITY AND ENGINEER PRIOR TO PLACEMENT OF BASE MATERIAL.
- E. IF THE PLANS INDICATE A LIMEROCK BASE, THE CONSTRUCTION AND THE MATERIAL FOR THE LIMEROCK BASE SHALL CONFORM TO THE REQUIREMENTS OF F.D.O.T. SPECIFICATIONS, SECTION 230. THE LIMEROCK BASE SHALL BE COMPACTED TO 98% MAXIMUM DENSITY AT OPTIMUM MOISTURE. AASHTO T-180, METHOD "D". THE ENGINEER SHALL SPECIFY THE LOCATION AND NUMBER OF DENSITY TESTS REQUIRED. CITY AND ENGINEER REQUIRE DENSITY TESTS AT 50' O.C. FOR TRENCH RESTORATIONS (MINIMUM ONE (1) TEST PER TRENCH). FOR THE REMAINING APPLICATIONS TESTING SHALL BE COMPLETED EVERY 10,000 SF OR AT MINIMUM TWO (2) TEST LOCATIONS, WHICH EVER IS GREATER, UNLESS NOTED DIFFERENTLY IN THE PLANS. THE TEST RESULTS SHALL BE ACCEPTED BY THE CITY AND ENGINEER PRIOR TO APPLICATION OF THE PRIME AND TACK COATS.
- F. THE PRIME AND TACK COAT CONSTRUCTION AND MATERIALS FOR THE PRIME AND TACK COATS SHALL CONFORM TO THE REQUIREMENTS OF F.D.O.T. STANDARD SPECIFICATIONS, SECTION 300. THE PRIME AND TACK COATS SHALL BE APPLIED PRIOR TO CONSTRUCTION OF THE ASPHALT SURFACE COURSE AND SHALL BE SANDED AND ROLLED IN ACCORDANCE WITH SECTION 300. APPLICATION RATES SHALL BE 0.15 GAL/SY FOR LIMEROCK BASE AND 0.25 GAL/SY FOR SHELL/ROCK BASE.
- G. ASPHALT CONCRETE SURFACE COURSE SHALL BE AS SHOWN ON THE PLANS. THE MATERIALS FOR THE ASPHALT CONCRETE SURFACE COURSE SHALL CONFORM TO THE REQUIREMENTS OF F.D.O.T. STANDARD SPECIFICATIONS, SECTION 331.
- H. AMOUNT OF RECLAIMED ASPHALT PAVEMENT (RAP) MATERIAL USED IN THE MIX SHALL BE LIMITED TO A MAXIMUM OF 20 PERCENT BY WEIGHT OF TOTAL AGGREGATE AND CONFORM TO ALL REQUIREMENTS OF THE LATEST EDITION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION".
- I. THE MATERIAL TO BE USED AS A STABILIZER SHALL BE SOIL OF HIGH BEARING VALUE SUCH AS, SAND-CLAY, GROUND LIMESTONE, CRUSHED LIMEROCK, OYSTER SHELL, COQUINA SHELL, ROCK SCREENINGS, OR ANY OTHER MATERIAL WHICH IS SUITABLE FOR STABILIZATION. MUCK SHALL NOT BE USED AS STABILIZING MATERIAL.
- J. ALL GRADES SHOWN REFER TO FINISHED ASPHALT PAVEMENT UNLESS OTHERWISE NOTED.
- K. MATERIAL HAVING A PLASTICITY INDEX AT MORE THAN 10 OR A LIQUID LIMIT GREATER THAN 40 SHALL NOT BE USED. ALL MATERIAL USED FOR STABILIZING THE ROADBED SHALL PASS A 3-1/2 INCH RING.
- L. WHERE THE BEARING VALUE OF THE EXISTING SUBGRADE IS ADEQUATE WITHOUT ADDITION OF STABILIZING MATERIAL, THE SUBGRADE SHALL BE SCARIFIED AND DICED, HARROWED, BLADED, OR TILLED FOR REMOVAL OF BOULDERS, ROOTS, ETC. TO ASSURE UNIFORMITY AND THOROUGH MIXING OF MATERIAL TO THE FULL WIDTH AND DEPTH OF REQUIRED STABILIZATION. THE COMPACTED SUBGRADE SHALL CONFORM TO THE LINES, GRADES AND CROSS-SECTION SHOWN ON THE PLANS.
- M. CONTRACTOR SHALL SAW CUT EXISTING PAVEMENT AT THE LIMITS OF REMOVAL OF EXISTING PAVEMENT AND WHEN NEW PAVEMENT CONSTRUCTION MEETS EXISTING PAVEMENT. MEET AND MATCH SHALL ALSO MEAN SAW CUT AND MATCH.
- N. THE SUBGRADE TO BE STABILIZED SHALL BE PROCESSED AS RECOMMENDED IN THE GEOTECHNICAL STUDY PROVIDED BY NV5 DATED DECEMBER 17, 2015.
- O. PRIOR TO THE BEGINNING OF STABILIZING OPERATIONS, THE AREA TO BE STABILIZED SHALL HAVE BEEN CONSTRUCTED TO AN ELEVATION SUCH THAT UPON COMPLETION OF STABILIZING OPERATIONS, THE COMPLETED STABILIZED SUBGRADE SHALL CONFORM TO THE LINES, GRADES AND CROSS-SECTION SHOWN IN THE PLANS. PRIOR TO THE SPREADING OF ANY ADDITIVE STABILIZING MATERIAL THE SURFACE OF THE ROADBED AND/OR ENGINEERING CONTROL SHALL BE BROUGHT TO A PLACE APPROXIMATELY PARALLEL TO THE PLANE OF THE PROPOSED FINISHED SURFACE.
- P. THE STABILIZING MATERIAL SHALL BE APPLIED IN SUCH QUANTITY AS IS NECESSARY TO PRODUCE THE REQUIRED BEARING VALUE. IT SHALL BE INCORPORATED WITH THE SUBGRADE BY FLOWING, DICING, HARROWING, BLADING OR MIXING WITH ROTARY TILLERS UNTIL THE MIXED MATERIALS ARE OF A UNIFORM BEARING VALUE FOR THE FULL WIDTH AND DEPTH OF THE COURSE BEFORE COMPACTION. REGARDLESS OF THE CHARACTER OR BEARING VALUE, ALL MATERIALS IN THE STABILIZING COURSE THAT WILL NOT PASS A 3-1/2" RING SHALL BE REMOVED OR BROKEN DOWN TO A SIZE NOT LARGER THAN 3-1/2 INCHES.

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STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC. 7700 N. KENDALL DRIVE, SUITE 900, MIAMI, FL 33156 PH. (305) 412-8185 FAX. (305) 412-8105 FL CERTIFICATE OF AUTHORIZATION NO. 00004892

SUBCONSULTANT:

PROFESSIONAL SEAL:

PETER J DUENO, P.E. FL LICENSE NO. 73781 SCS ENGINEERS

PROJECT NUMBER: 09213010.43

PROJECT NAME & ADDRESS:

DOUGLAS PARK CORRECTIVE ACTION PLAN 2795 SW 37 AVENUE MIAMI, FL

CLIENT NAME & ADDRESS:



CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM 444 SW 2ND AVENUE MIAMI, FLORIDA 33130

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FILE NAME: C-1 NOTES_SPEC.DWG

DRAWN BY: JDR

CHECKED BY: PJD

DATE: DECEMBER 2015

DRAWING TITLE:

NOTES AND SPECIFICATIONS

DRAWING NUMBER:

C-10

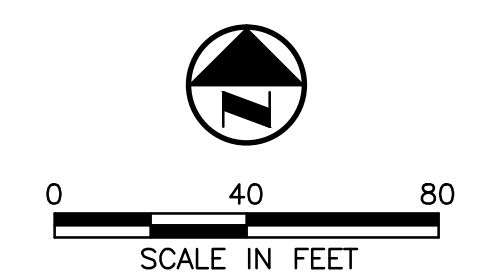
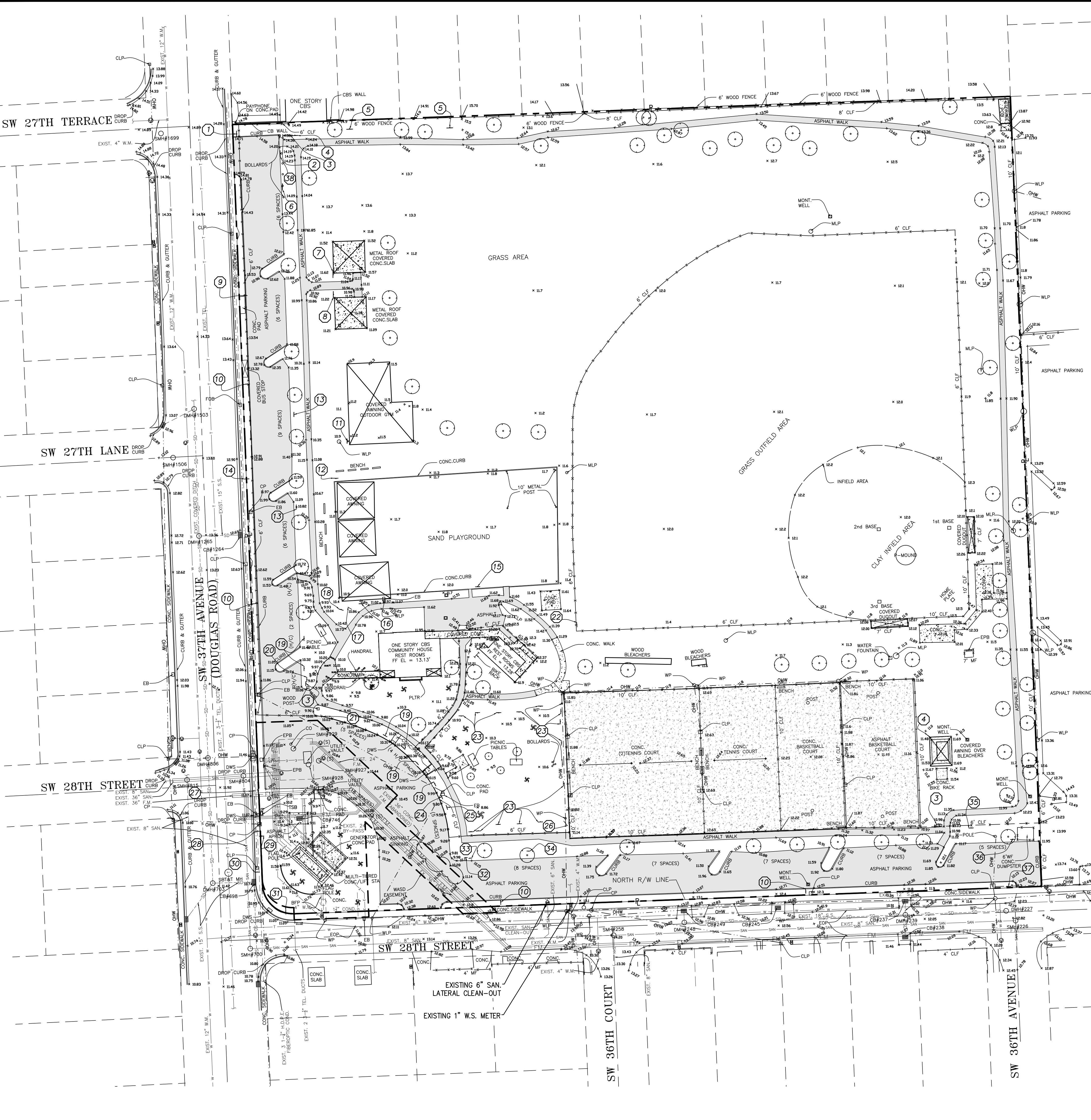
SHEET 2 of 17

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EXISTING SIGN LEGEND

- 1 R5-1 "DO NOT ENTER" & D1-3 "DOUGLAS RD SW 37 AV" & "SW 27 TR"
- 2 PETTICKUPS BOX
- 3 "ALL DOGS MUST BE ON LEASH... PURSUANT TO CITY CODE..."
- 4 "DEPT. OF PARKS & REC. PARKS RULES AND REGS. CITY CODE - CHAPTER 38/ORD. 7999"
- 5 "WARNING: DO NOT KICK THE BALL..."
- 6 "FOR NON-EMERGENCY ASST. PLEASE CALL..."
- 7 "NO ALCH. BEV. ALLOWED IN PARK"
- 8 "NO BAR.B.QUE ALLOWED"
- 9 OUTFRONT MEDIA ADVERTISEMENT BOARD
- 10 "CAUTION SPEED BUMP"
- 11 "NO CHILDREN ALLOWED..." & "OPEN GYM"
- 12 "NO PETS ALLOWED IN PARK"
- 13 "DOUGLAS PARK PARKING ONLY"
- 14 W11-2 CROSSWALK
- 15 "PLEASE DO NOT LEAVE CHILDREN UNATTENDED"
- 16 "NO DOGS ALLOWED IN THIS AREA"
- 17 "FRIENDSHIP PLAYGROUND..." DEDICATION SIGN
- 18 PLAYGROUND AGE REQUIREMENT SIGN
- 19 ADA ACCESSIBLE PARKING SIGN
- 20 SIGN 4 & "NO PARKING ANYTIME TOW AWAY ZONE"
- 21 "PARKING FOR PARK ACTIVITIES ONLY" & "5 MPH SLOW DOWN CHILDREN"
- 22 "SMALL WORLD SOCCER ACADEMY..." & "FIFA"
- 23 "HEALTH TRAIL"; VARIOUS TYPES
- 24 "PARKING FOR STAFF ONLY..."
- 25 "PARKING FOR PARKS AND REC. STAFF ONLY"
- 26 BULLETIN BOARD
- 27 "JUAN M. SORONDO M.D. AV DESIGNATED BY..."
- 28 S1-1 (FYG) SCHOOL CROSSING & W16-7P L (FYG) LEFT ARROW
- 29 R10-7 "DO NOT BLOCK INTERSECTION"
- 30 D9-2 HOSPITAL "H" SYMBOL & M6-3 ARROW
- 31 R1-1 "STOP" & D1-3 "DOUGLAS RD SW 37 AV" & "SW 28 ST"
- 32 "NO VEHICLES ALLOWED ON GRASS"
- 33 SIGN 3 & SIGN 4
- 34 "PET WASTE TRANSMITS DISEASE..." & SIGN 2
- 35 DOUGLAS PARK IMPROVEMENTS
- 36 "DO NOT BLOCK OR PARK NEXT TO GARBAGE DUMPSTER" & "NO PARKING ANYTIME POLICE..."
- 37 R5-1 "DO NOT ENTER"
- 38 "NO ENTRANCE"

LEGEND

- ASPHALT
 - CONCRETE
 - CENTER LINE
 - PROPERTY LINE
 - BENCH
 - FIRE HYDRANT
 - SIAMASE CONNECTOR
 - GATE VALVE (UNLESS NOTED OTHERWISE)
 - WATER METER
 - CATCH BASIN
 - GUYWIRE ANCHOR
 - TREE
 - PALM TREE
 - SIGN
 - SEWER VALVE
 - ELECTRICAL*
 - FORCE MAIN LINE*
 - TELEPHONE*
 - STORM SEWER*
 - SANITARY SEWER*
 - WATER MAIN*
 - SANITARY SEWER CLEAN-OUT
- *SIZE AND MATERIAL IDENTIFIED AS AVAILABLE

NOTES

- 1. EXISTING CONDITIONS PRESENTED ARE BASED ON THE BEST AVAILABLE INFORMATION OBTAINED FROM THE EXISTING UTILITY OWNER AND THE TOPOGRAPHIC SURVEY PROVIDED BY KEITH AND SCHNARS, P.A. 6500 NORTH ANDREWS AVENUE, FORT LAUDERDALE, FL. 33309 PHONE NO. (954) 776-1616, JOB NO.19004C.
- 2. ELEVATIONS SHOWN ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 1929).
- 3. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
- 4. CONTRACTOR IS TO PROTECT ALL EXISTING TREES, SIGNS, AND ABOVE GROUND UTILITIES LOCATED IN THE SITE AREA. CONTRACTOR IS TO COORDINATE WITH CITY OF MIAMI AND ENGINEER OF ANY CONFLICTS PRIOR TO CONSTRUCTION.
- 5. NEW LOCATIONS FOR THE IDENTIFIED EXISTING TREES TO BE RELOCATED SHALL BE COORDINATED BY THE CONTRACTOR WITH THE CITY OF MIAMI PRIOR TO ANY OF THE EXISTING TREES BEING REMOVED.

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 CERTIFICATE OF AUTHORIZATION NO. 00004892

SUBCONSULTANT:

PROFESSIONAL SEAL:
 PETER J DUENO, P.E.
 FL LICENSE NO. 73781
 SCS ENGINEERS

PROJECT NUMBER: 09213010.43

PROJECT NAME & ADDRESS:
DOUGLAS PARK
 CORRECTIVE ACTION PLAN
 2795 SW 37 AVE
 MIAMI, FL

CLIENT NAME & ADDRESS:

 CITY OF MIAMI
 CAPITAL IMPROVEMENTS PROGRAM
 444 SW 2ND AVENUE
 MIAMI, FLORIDA 33130

REV	DESCRIPTION	DATE

SCALE: AS NOTED

FILE NAME: C-2.0 EXIST_COND.DWG

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DATE: DECEMBER 2015

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EXISTING CONDITIONS

DRAWING NUMBER:

AS-BUILT TABLE

STRUCTURE ID	RIM EL.	PIPE INFORMATION	INVERT EL.
#746-CB	8.58'	SW, 15" CLAY	5.06'
		BOS	4.28'
#698-CB		UNABLE TO PULL COVER	
#248-DMH	13.29	E, 18" CMP-BAFFLED	8.92'
		BOS	2.25'
#249-CB	12.66'	S, 18" CMP	8.75'
		BOS	7.01'
#245-CB	11.84'	FULL OF DEBRIS	
		BOS	6.21'
#237-CB	10.80'	S, 15" CMP	6.18'
		BOS	5.28'
#239-CB	11.85'	E, BAFFLED	
		W, BAFFLED	6.21'
		S, 15" CMP	7.15'
		N, 15" CMP	6.03'
		BOS	1.97'
#238-CB	11.18'	N, 15" CMP	7.21'
		BOS	2.66'
#227-DMH	12.45'	W, BAFFLED	
		BOS FULL OF DEBRIS	
#928-SMH	10.96'	CLOSED-BOLTED SHUT	
#927-SMH	10.89'	INACCESSIBLE	
#929-SMH	11.03'	INACCESSIBLE	

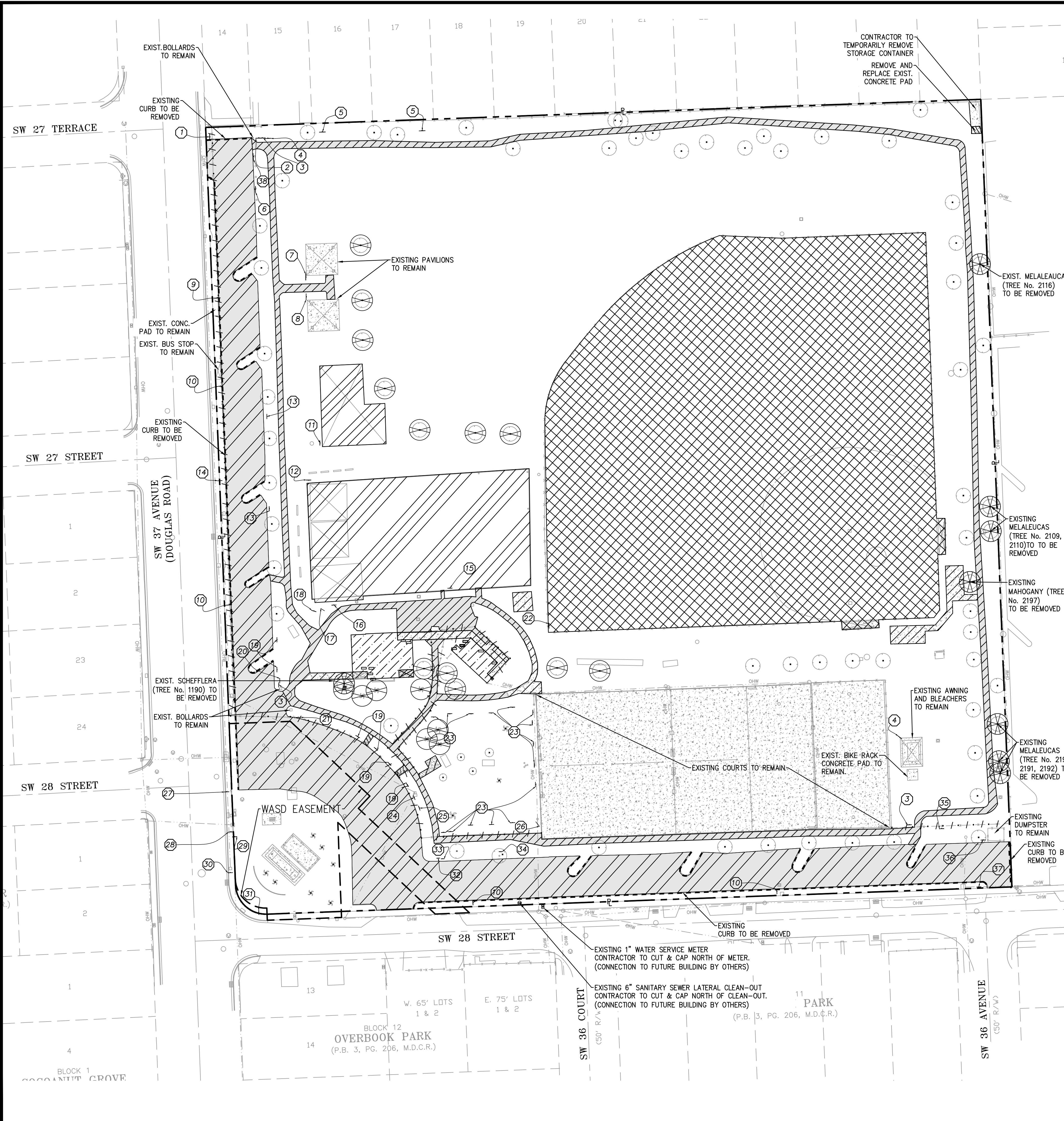
* PIPE SIZES, DIMENSIONS AND TYPES SHOULD BE VERIFIED PRIOR TO CONSTRUCTION DUE TO STANDING WATER, DEBRIS AND OTHER OBSTRUCTIONS WITHIN THE STRUCTURES.

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EXISTING SIGNS TO REMAIN

- 9 OUTFRONT MEDIA ADVERTISEMENT BOARD
- 27 "JUAN M. SORONDO M.D. AV DESIGNATED BY..."
- 28 S1-1 (FYG) SCHOOL CROSSING & W16-7P L (FYG) LEFT ARROW
- 30 D9-2 HOSPITAL "H" SYMBOL & M6-3 ARROW

EXISTING SIGNS TO BE REMOVED AND REINSTALLED

- 7 R5-1 "DO NOT ENTER" & D1-3 "DOUGLAS RD SW 37 AV" & "SW 27 TR"
- 14 W11-2 CROSSWALK
- 29 R10-7 "DO NOT BLOCK INTERSECTION"
- 31 R1-1 "STOP" & D1-3 "DOUGLAS RD SW 37 AV" & "SW 28 ST"
- 37 R5-1 "DO NOT ENTER"

* ALL SIGNS WITHIN DOUGLAS PARK ARE TO BE REMOVED UNLESS SPECIFIED DIFFERENTLY IN THE DRAWINGS. (REFER TO NOTE 4)

WASD EASEMENT NOTES

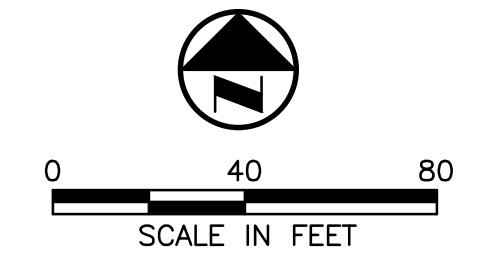
1. ALL WASD OWNED FACILITIES ARE TO REMAIN. ANY DAMAGE TO THE EXISTING FACILITY SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
2. CONTRACTOR IS TO USE EXTREME CAUTION WHEN WORKING WITHIN THE WASD EASEMENT. IN THE EVENT OF AN EMERGENCY REGARDING THE PUMP STATION PLEASE CALL THE WASD 24HR EMERGENCY LINE (305)274-9272.
3. ACCESS TO ALL WASD VALVES, MANHOLES AND VAULTS MUST BE MAINTAINED AT ALL TIME IN THE INTEREST OF PUBLIC HEALTH AND SAFETY.
4. ANY ALTERATION TO WASD'S EXISTING PUMP STATION MUST BE REVIEWED AND APPROVED BY WASD.
5. ALL VALVE, VAULT AND MANHOLE COVERS MUST BE ADJUSTED TO FINAL ELEVATION.

LEGEND

- CENTER LINE
- PROPERTY LINE
- BENCH
- FIRE HYDRANT
- SIAMESE CONNECTOR
- GATE VALVE (UNLESS NOTED OTHERWISE)
- WATER METER
- CATCH BASIN
- GUYWIRE ANCHOR
- TREE
- PALM TREE
- SIGN
- SEWER VALVE
- EXISTING CHAIN LINK FENCE TO BE REMOVED
- EXISTING ASPHALT, BASE, SUBGRADE TO BE REMOVED
- EXISTING ASPHALT PAVEMENT TO BE REMOVED
- EXISTING CONCRETE PAVEMENT TO BE REMOVED
- EXISTING OUTDOOR GYM AND PLAYGROUND TO BE REMOVED (REFER TO NOTE 11)
- EXISTING ONE-STORY BUILDINGS TO BE DEMOLISHED
- EXISTING BASEBALL FIELD, DUGOUTS, IRRIGATION AND CHAIN-LINK FENCE TO BE REMOVED
- EXISTING TREE OR PALM TO BE RELOCATED
- EXISTING TREE TO BE REMOVED
- EXISTING SIGN TO BE REMOVED (UNLESS SPECIFIED DIFFERENTLY IN THE PLANS)
- EXISTING BENCHES TO BE REMOVED (REFER TO NOTE 4)
- EXISTING PICNIC TABLES TO BE REMOVED (REFER TO NOTE 4)
- EXISTING CURB TO BE REMOVED

NOTES

1. EXISTING CONDITIONS PRESENTED ARE BASED THE BEST AVAILABLE INFORMATION OBTAINED FROM THE EXISTING UTILITY OWNER AND THE TOPOGRAPHIC SURVEY PROVIDED BY KEITH AND SOHNARS, P.A., 6500 NORTH ANDREWS AVENUE, FORT LAUDERDALE, FL 33309 PHONE NO. (954) 776-1616, JOB NO.19004C.
3. TREES NOT DESIGNATED FOR REMOVAL OR RELOCATION ARE TO BE PROTECTED AND REMAIN IN PLACE DURING CONSTRUCTION ACTIVITIES.
4. ALL EXISTING BENCHES, BLEACHERS, BIKE RACKS, TRASH RECEPTACLES, SIGNS, "HEALTH TRAIL" EQUIPMENT AND GYM/PLAYGROUND EQUIPMENT ARE TO BE REMOVED. CONTRACTOR TO MEET WITH THE CITY PRIOR TO ANY REMOVAL OF EQUIPMENT TO ESTABLISH MATERIAL TO BE SALVAGED OR DISPOSED OF.
5. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
6. CONTRACTOR IS TO PROTECT ALL EXISTING TREES, SIGNS, AND ANY EXISTING UTILITIES TO REMAIN IN THE SITE AREA. CONTRACTOR IS TO COORDINATE WITH CITY OF MIAMI AND ENGINEER OF ANY CONFLICTS PRIOR TO CONSTRUCTION.
7. CONTRACTOR TO REFER TO LANDSCAPE PLANS FOR NEW LOCATIONS FOR THE IDENTIFIED EXISTING TREES TO BE RELOCATED.
8. CONTRACTOR TO REFER TO ELECTRICAL DRAWINGS FOR ANY EXISTING ELECTRICAL COMPONENT DEMOLITION REQUIRED.
9. ALL EXISTING MONITORING WELLS ARE TO BE ABANDONED BY OTHERS PRIOR TO CONSTRUCTION. ANY ACTIVE WELLS FOUND BY CONTRACTOR TO BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY PRIOR TO ANY CONSTRUCTION AT THE LOCATION OF THE WELL.
10. EXISTING PAVILIONS, BASKETBALL COURTS AND TENNIS COURTS AND THEIR CORRESPONDING EQUIPMENT ARE TO REMAIN.
11. PLAYGROUND AND OUTDOOR GYM DEMOLITION SHALL INCLUDE REMOVAL AND DISPOSAL OF ALL EQUIPMENT, ACCESSORIES, CURBS AND ASSOCIATED FOUNDATIONS.



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 CERTIFICATE OF AUTHORIZATION NO. 00004892

SUBCONSULTANT:

PROFESSIONAL SEAL:

PETER J DUENO, P.E.
 FL LICENSE NO. 73781
 SCS ENGINEERS

PROJECT NUMBER: 09213010.43

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DOUGLAS PARK
 CORRECTIVE ACTION PLAN
 2795 SW 37 AVE
 MIAMI, FL

CLIENT NAME & ADDRESS:

CITY OF MIAMI
 CAPITAL IMPROVEMENTS PROGRAM
 444 SW 2ND AVENUE
 MIAMI, FLORIDA 33130

REV	DESCRIPTION	DATE

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DRAWN BY: JDR

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DATE: DECEMBER 2015

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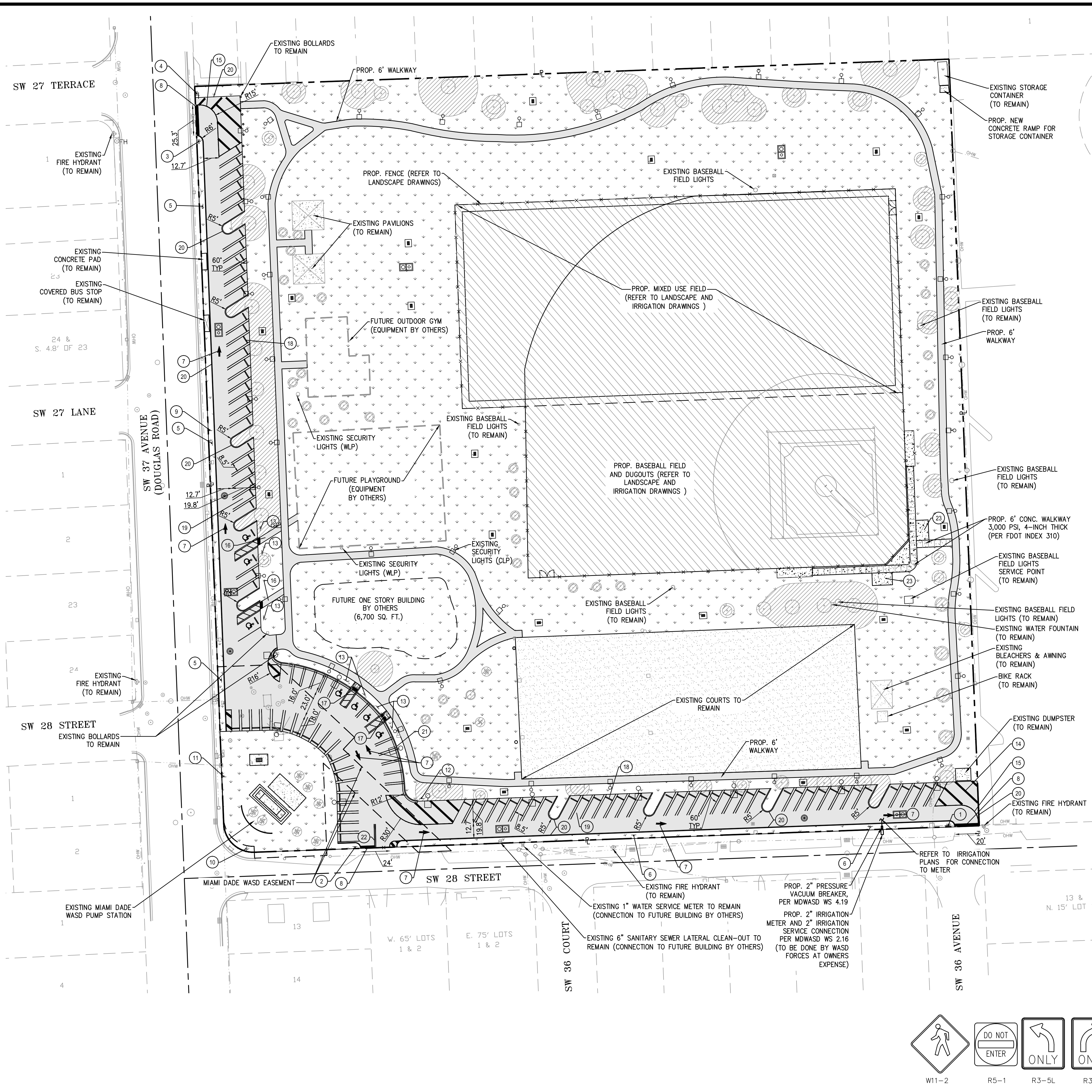
SITE DEMOLITION PLAN

DRAWING NUMBER:

C-3.0
 SHEET 6 of 17

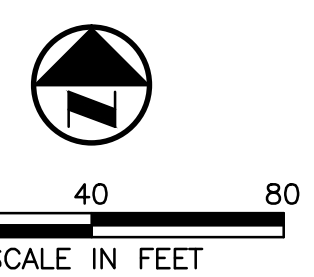
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LEGEND

- +—+— CENTER LINE
- +—+— PROPERTY LINE
- +—+— BENCH
- +—+— FIRE HYDRANT
- +—+— SIAMSESE CONNECTOR
- +—+— GATE VALVE (UNLESS NOTED OTHERWISE)
- +—+— WATER METER
- +—+— CATCH BASIN
- +—+— GUYWIRE ANCHOR
- +—+— TREE
- +—+— PALM TREE
- +—+— SIGN
- +—+— SEWER VALVE



NOTES

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3. CONTRACTOR IS TO PROTECT ALL EXISTING TREES, SIGNS, AND ABOVE GROUND UTILITIES LOCATED IN THE SITE AREA. CONTRACTOR IS TO COORDINATE WITH CITY OF MIAMI AND ENGINEER OF ANY CONFLICTS PRIOR TO CONSTRUCTION.

FOR FINAL MATERIAL AND COVER REFER TO ENGINEERING CONTROL PLAN SHEET C-5.0

PROPOSED CALL OUT LEGEND

- 1 PROP. R1-1 (FACING NORTH). REINSTALL R5-1 (FACING SOUTH)
- 2 PROP. R1-1 (FACING NORTH)
- 3 PROP. R1-1 (FACING EAST) AND R5-1 (FACING WEST)
- 4 RELOCATE AND REINSTALL EXISTING R5-1 (FACING EAST) AND EXISTING D1-3 "DOUGLAS RD SW 37 AV" & "SW 27 TR". PROP. R1-1 (FACING WEST)
- 5 PROP. R6-1R (FACING EAST)
- 6 PROP. R6-1L (FACING NORTH)
- 7 PROP. REFLECTIVE THERMOPLASTIC THROUGH LANE USE DIRECTIONAL ARROW PER FDOT INDEX 17346 (TYP.)
- 8 PROP. REFLECTIVE THERMOPLASTIC 24-INCH SOLID WHITE LINE (STOP BAR)
- 9 REINSTALL EXISTING W11-2 (FACING SOUTH)
- 10 REINSTALL EXISTING R1-1 (FACING EAST) AND D1-3 "DOUGLAS RD SW 37 AVE" AND "SW 28 ST"
- 11 REINSTALL EXISTING R10-7 (FACING SOUTH)
- 12 PROP. R6-1R (FACING SOUTH)
- 13 PROP. REFLECTIVE THERMOPLASTIC ADA PARKING SIGN AND MARKINGS; PER FDOT INDEX 17346
- 14 PROP. REFLECTIVE THERMOPLASTIC 18" SOLID WHITE, 45 DEGREE -10'C/C SPACING
- 15 PROP. REFLECTIVE THERMOPLASTIC 6" SOLID WHITE LINE
- 16 PROP. 6-FT WIDE ADA ACCESS; 1-INCH THICK S-III ASPHALT WITH 6-INCH LIMEROCK BASE; DETECTABLE WARNINGS PER FDOT INDEX 304
- 17 PROP. FDOT CR-E CURB RAMP WITH DETECTABLE WARNINGS PER FDOT INDEX 304
- 18 PROP. WHEEL STOP; AS PER CITY OF MIAMI ENGINEERING STANDARDS, 35-85-41.
- 19 PROP. PARKING PER CITY OF MIAMI ENGINEERING STANDARDS, 35-85-33.
- 20 PROP. D-CURB (TYP); PER CITY OF MIAMI ENGINEERING STANDARDS, 35-85-33.
- 21 PROP. F-CURB (TYP); PER FDOT INDEX 300
- 22 PROP. REFLECTIVE THERMOPLASTIC 6" DOUBLE YELLOW LINE; PER FDOT INDEX 17346
- 23 PROP. BLEACHERS; MODEL No. NB-0515ADA, NATIONAL RECREATION SYSTEMS, INC. OR APPROVED EQUAL (REFER TO STRUCTURAL DRAWINGS FOR BLEACHER PAD)

ZONING DATA		
MIAMI 21 ZONING	CIVIC SPACE ZONE	
LAND USE DESIGNATION	PR - PARKING AND RECREATION AND OPEN SPACE	
TOTAL SITE AREA	412,088 SQ FT (9.47 AC)	100%
FEMA FLOOD ELEVATION	ZONE "X" ELEVATION MAP NUMBER 12086C0457L	
MIAMI WATER TABLE	(OCTOBER): 2.80 FT-NGVD	

PARKING		
	SPACES REQUIRED/EXIST	SPACES PROVIDED
TOTAL ACCESSIBLE PARKING	7	7
TOTAL PARKING	89	96

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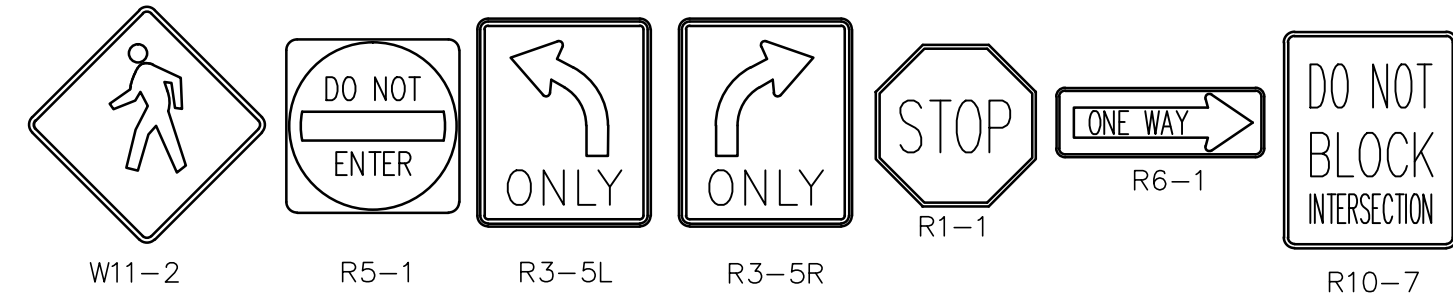
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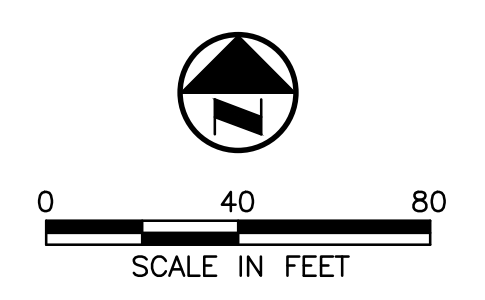
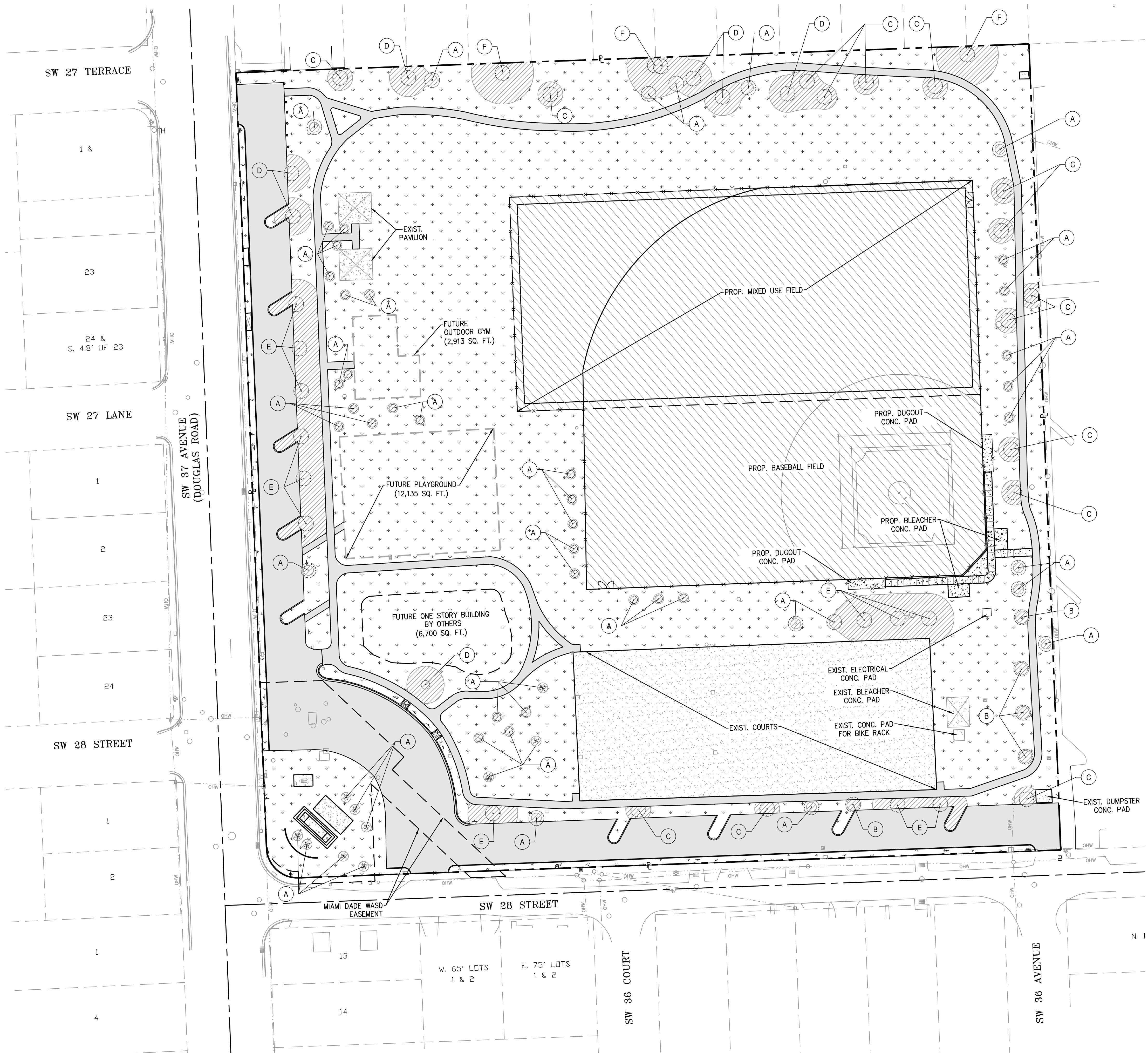
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 SHEET 7 of 17

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- LEGEND**
- +—+— CENTER LINE
 - +—+— PROPERTY LINE
 - +—+— BENCH
 - ⊕ FIRE HYDRANT
 - ⊕ SIAMESE CONNECTOR
 - ⊕ GATE VALVE (UNLESS NOTED OTHERWISE)
 - ⊕ WATER METER
 - ⊕ CATCH BASIN
 - ⊕ GUYWIRE ANCHOR
 - ⊕ TREE
 - ⊕ PALM TREE
 - ⊕ SIGN
 - ⊕(S) SEWER VALVE

- ENGINEERING CONTROLS**
- PROPOSED TREE TREATMENT AREA
12" CLEAN FILL, 2.5" BONDED RUBBER MULCH
 - PROPOSED BASEBALL FIELD/MIXED USE FIELD
GSE EC GCL, 12" CLEAN FILL AND SOD
 - PROPOSED FINAL SURFACE
GSE EC GCL, 12" CLEAN FILL AND SOD
 - PROPOSED ASPHALT PAVEMENT
 - PROPOSED CONCRETE PAVEMENT
 - EXIST. CONCRETE PAVEMENT

* REFER TO ENGINEERING CONTROL DETAIL IN DRAWING C-5.1

PROPOSED SUBGRADES AND FINAL GRADES TO BE FIELD ADJUSTED TO MEET REQUIREMENTS SET FORTH IN THIS ENGINEERING CONTROL PLAN.

TREE TREATMENT MIN. RADIUS
(FROM CENTER OF TREE/PALM)

- A = 4'
- B = 5'
- C = 10'
- D = 15'
- E = 20'
- F = 25'

NOTES

1. EXISTING CONDITIONS PRESENTED ARE BASED THE BEST AVAILABLE INFORMATION OBTAINED BY EXISTING UTILITY OWNER AND THE TOPOGRAPHIC SURVEY PROVIDED BY KEITH AND SCHNARS, P.A. 6500 NORTH ANDREWS AVENUE, FORT LAUDERDALE, FL. 33309 PHONE NO. (954) 776-1616, JOB NO.19004C.
2. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
3. CONTRACTOR IS TO PROTECT ALL EXISTING TREES, SIGNS, AND ABOVE GROUND UTILITIES LOCATED IN THE SITE AREA. CONTRACTOR IS TO COORDINATE WITH CITY OF MIAMI AND ENGINEER OF ANY CONFLICTS PRIOR TO CONSTRUCTION.
4. CONTRACTOR SHALL FURNISH WRITTEN AND DOCUMENTED VERIFICATION OF THE SOIL EXCAVATION DEPTH TO THE ENGINEER OF RECORD. IN ADDITION, CONTRACTOR SHALL PROVIDE SUFFICIENT TIME FOR THE CITY'S ON-SITE REPRESENTATIVES TO OBSERVE THE EXCAVATION DEPTHS PRIOR TO FILLING ACTIVITIES.
5. CONTRACTOR SHALL PROVIDE TO THE ENGINEER OF RECORD AS-BUILT DRAWINGS ILLUSTRATING SPOT ELEVATIONS OF THE FINAL GRADED SURFACE EVERY 50 FT. FOR REVIEW AND APPROVAL PRIOR TO THE INSTALLATION OF ANY ENGINEERING CONTROL.
6. UPON COMPLETION OF THE ENGINEERING CONTROLS CONTRACTOR SHALL FURNISH THE ENGINEER OF RECORD "AS-BUILT" PLANS ILLUSTRATING SPOT ELEVATIONS TAKEN EVERY 50 FT OF THE FINISHED GRADE. SPOT ELEVATIONS ARE TO INCLUDE HIGH AND LOW POINT ELEVATIONS.

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS, INC.
7700 N. KENDALL DRIVE, SUITE 300, MIAMI, FL 33156
PH. (305) 412-8185 FAX. (305) 412-8105 FL
CERTIFICATE OF AUTHORIZATION NO. 00004892

SUBCONSULTANT:

PROFESSIONAL SEAL:

PETER J DUENO, P.E.
FL LICENSE NO. 73781
SCS ENGINEERS

PROJECT NUMBER: 09213010.43

PROJECT NAME & ADDRESS:

DOUGLAS PARK
CORRECTIVE ACTION PLAN
2795 SW 37 AVE
MIAMI, FL

CLIENT NAME & ADDRESS:



CITY OF MIAMI
CAPITAL IMPROVEMENTS PROGRAM
444 SW 2ND AVENUE
MIAMI, FLORIDA 33130

REV	DESCRIPTION	DATE

SCALE: AS NOTED

FILE NAME: C-5.0 ENG_CTRL.DWG

DRAWN BY: JDR

CHECKED BY: PJD

DATE: DECEMBER 2015

DRAWING TITLE:

ENGINEERING CONTROL PLAN

DRAWING NUMBER:

C-5.0

SHEET 8 of 17

ANY EXCAVATED MATERIAL TO BE DISPOSED OF OFFSITE SHALL BE PROPERLY DISPOSED OF AT A PERMITTED LANDFILL. CONTRACTOR TO PROVIDE DISPOSAL MANIFESTS FOR CONTAMINATED SOIL AND TICKETS FOR IMPORTED CLEANFILL.

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SUBCONSULTANT:

PROFESSIONAL SEAL:

PETER J DUENO, P.E.
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 MIAMI, FLORIDA 33130

REV	DESCRIPTION	DATE
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SCALE: AS NOTED

FILE NAME: C-5.1 E_C_DETAILS.DWG

DRAWN BY: JDR

CHECKED BY: PJD

DATE: DECEMBER 2015

DRAWING TITLE:

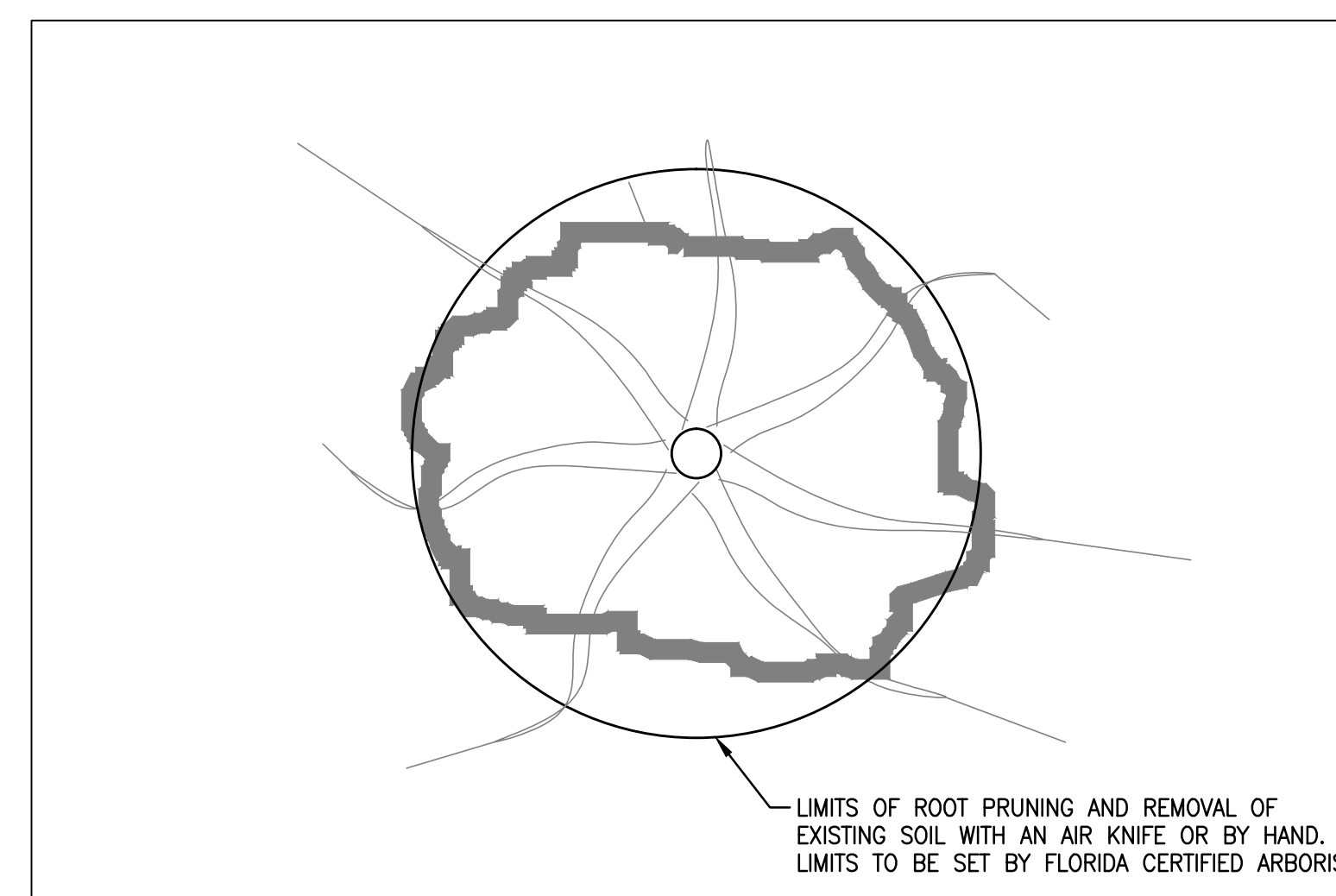
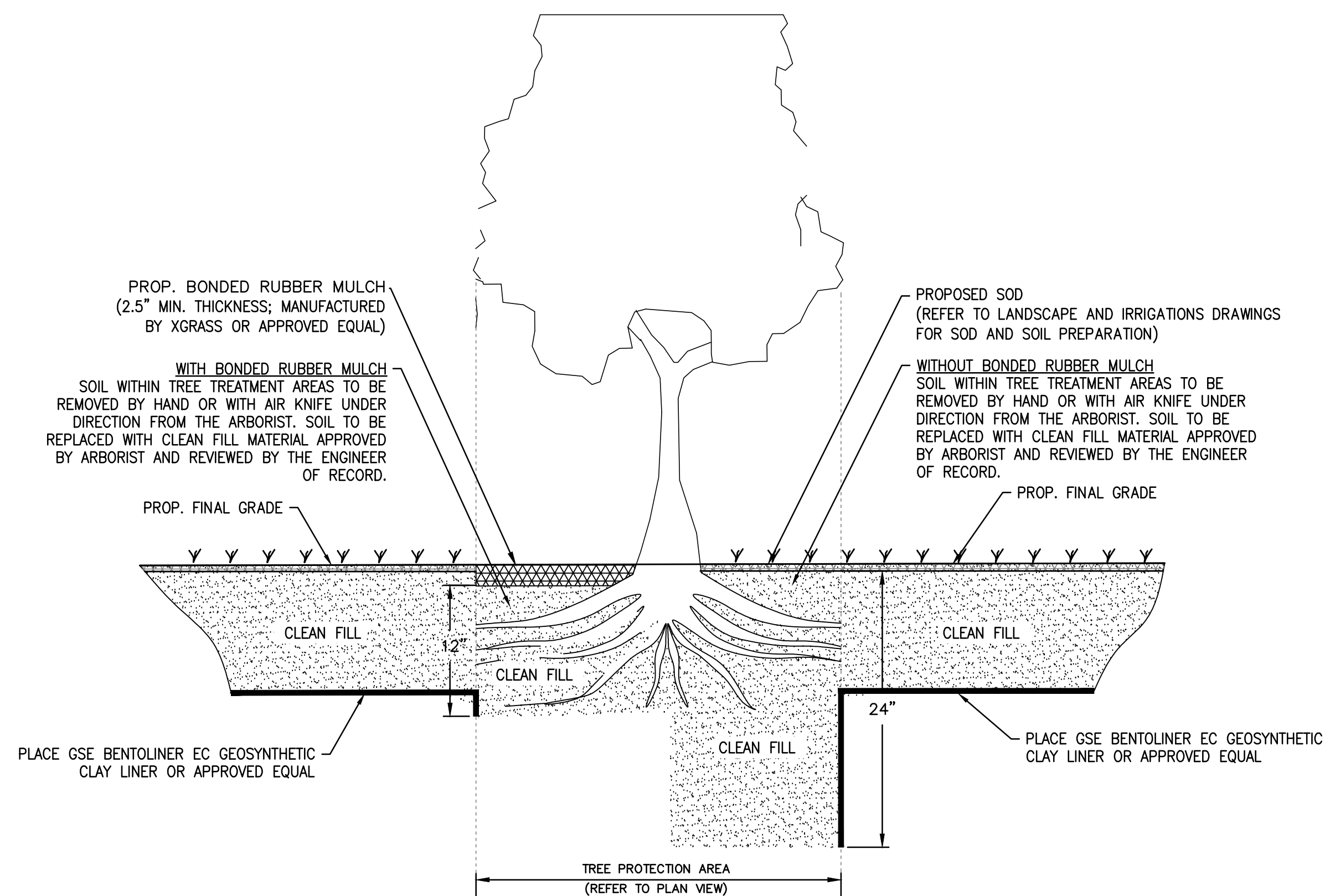
**ENGINEERING CONTROL
 DETAILS**

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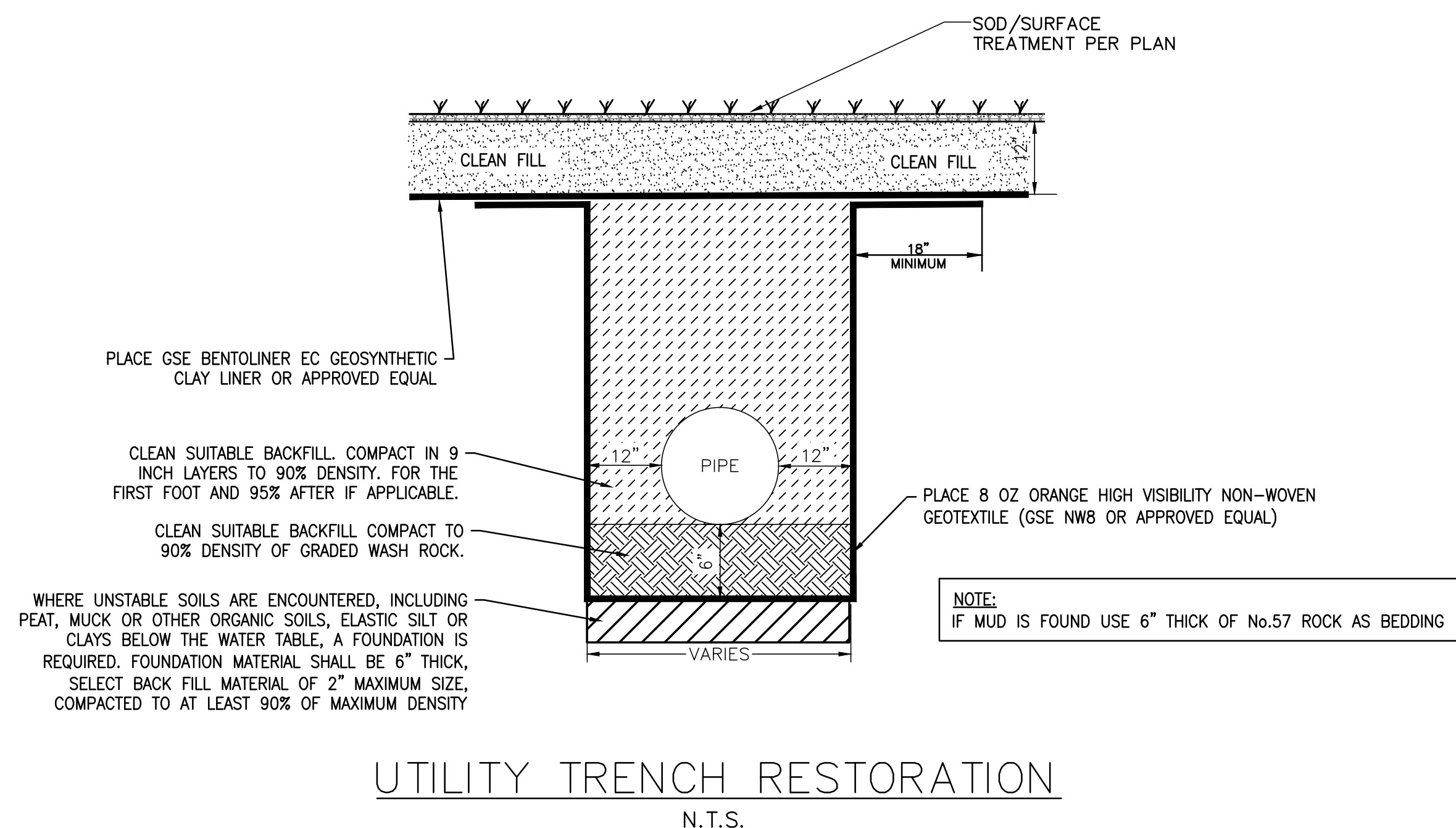
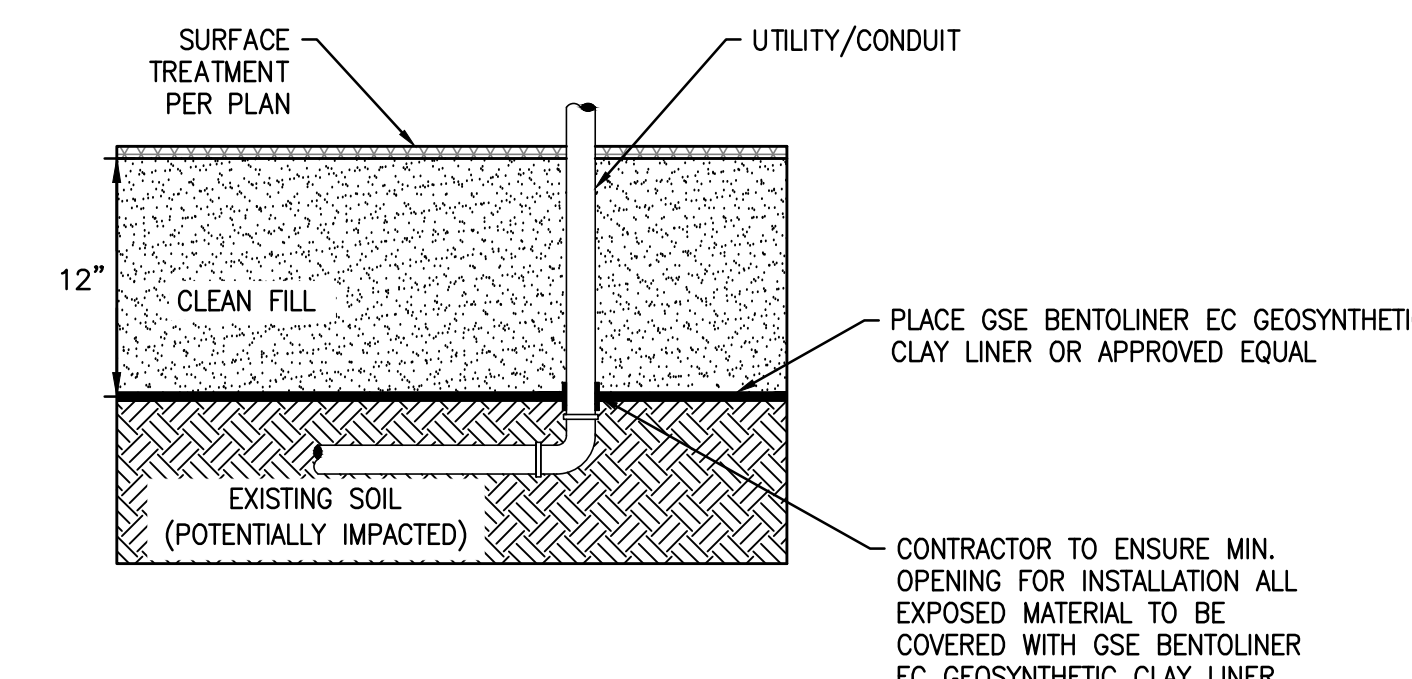
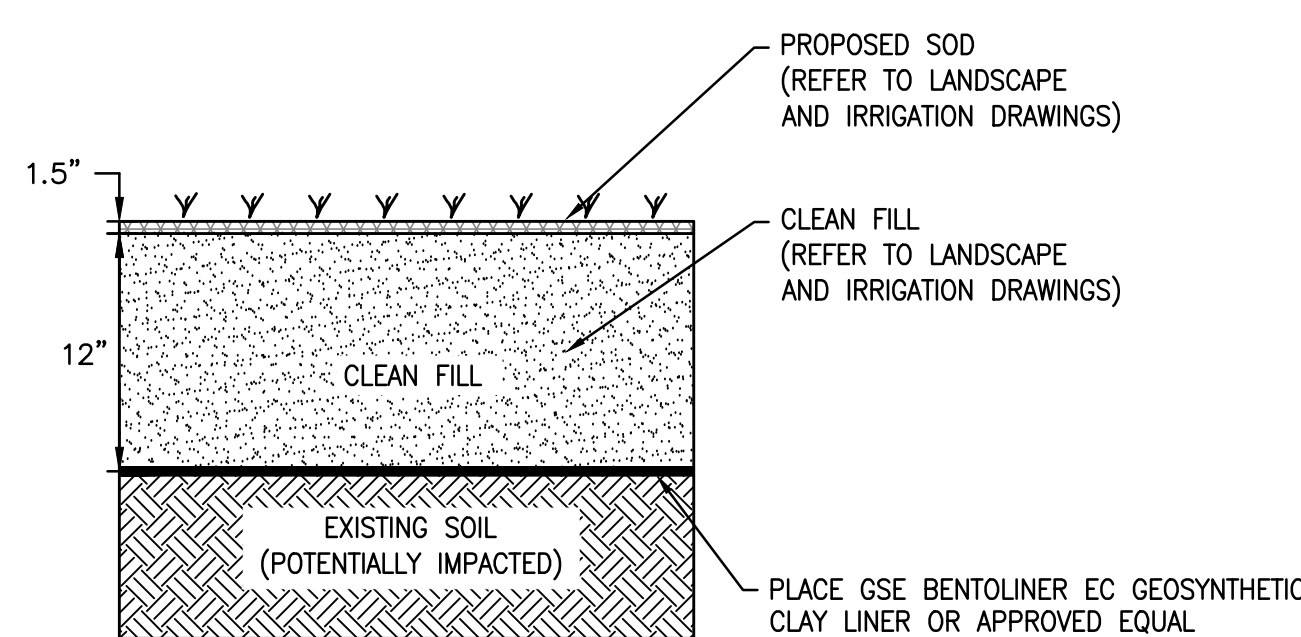
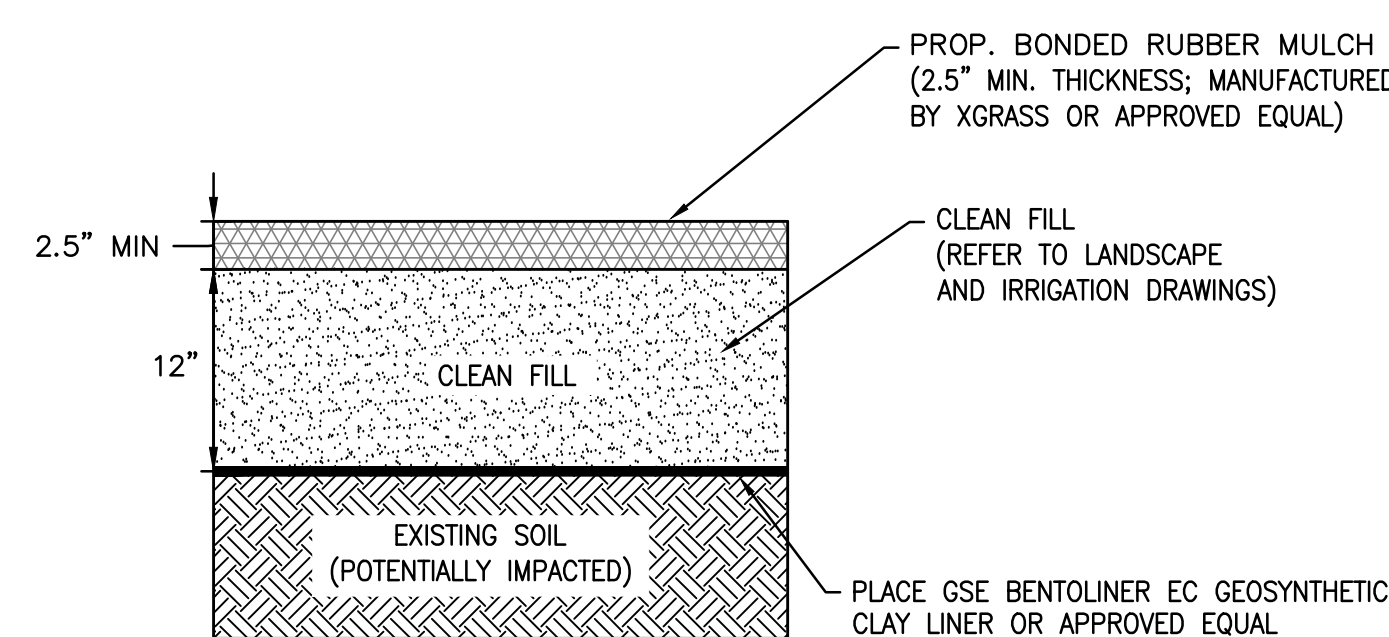
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SHEET 9 of 17

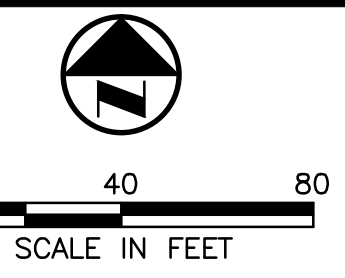
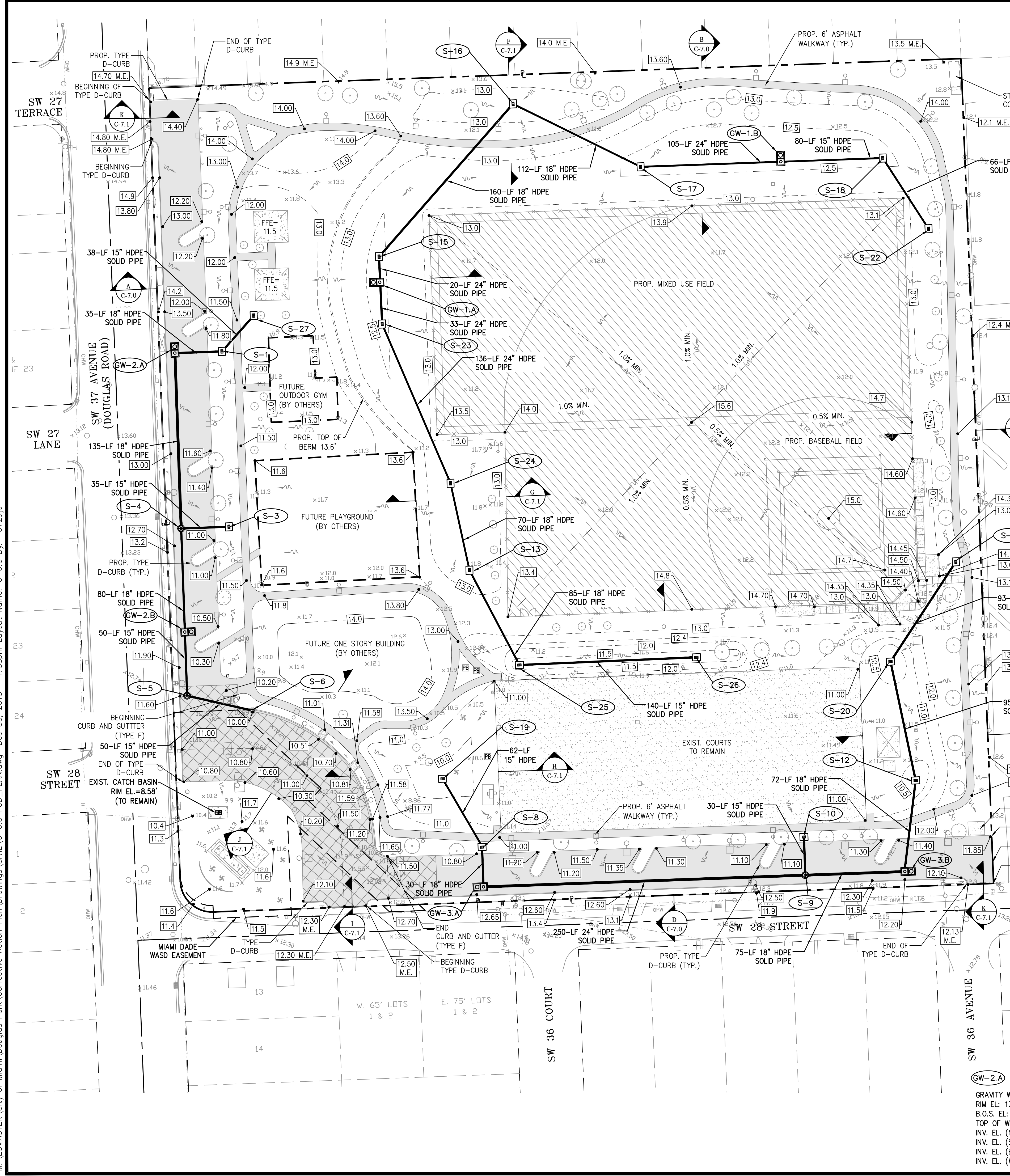
M:\ESMASTER\City of Miami\Drawings\Corrective Action Plan\Drawings\CIVIL\C-5.1 ENG_CTRL_DETAILS.dwg Dec 30, 2015 - 1:41pm Layout Name: C-5.1 By: 4072pjd



- NOTE:**
- CONTRACTOR IS TO ACQUIRE THE SERVICES OF A FLORIDA CERTIFIED ARBORIST TO ESTABLISH THE LIMITS OF ROOT PRUNING AND REMOVAL OF EXISTING SOIL WITH AN AIR KNIFE OR BY HAND. LIMITS ARE TO BE STAKED BY THE CERTIFIED ARBORIST.
 - CONTRACTOR TO NOTIFY ENGINEER OF ANY EXISTING DISCREPANCIES BETWEEN THE LIMITATIONS OF THE PROPOSED RUBBER MULCH AND LIMITS OF TREE TREATMENT SET BY THE ARBORIST.
 - COLOR OF RUBBER BONDED MULCH TO BE SELECTED AND APPROVED BY CITY OF MIAMI PRIOR TO INSTALLATION.



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NOTES

- EXISTING CONDITIONS PRESENTED ARE BASED THE BEST AVAILABLE INFORMATION OBTAINED BY EXISTING UTILITY OWNER AND THE TOPOGRAPHIC SURVEY PROVIDED BY KEITH AND SCHNARS, P.A. PHONE NO. (954) 776-1616, JOB NO.1900404.
- CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
- ALL PROPOSED SURFACES SHALL BE GRADED TOWARDS THE EXISTING OR PROPOSED DRAINAGE INLETS.
- CONTRACTOR IS TO PROTECT ALL EXISTING TREES, SIGNS, AND ABOVE GROUND UTILITIES LOCATED IN THE SITE AREA, AND IS TO COORDINATE WITH CITY OF MIAMI AND ENGINEER OF ANY CONFLICTS PRIOR TO CONSTRUCTION.
- ALL PROPOSED CATCH BASIN RIM ELEVATIONS SHALL BE SET TO A MINIMUM OF FOUR (4) INCHES LOWER THAN THE LOWEST EDGE OF PAVEMENT, SIDEWALK, OR DRIVEWAY (WHICHEVER IS LOWER) LOCATED ADJACENT TO INLET.
- ALL DISTURBED SWALE AREAS SHALL BE RESTORED TO EXISTING CONDITIONS OR BETTER.
- ALL INLETS ARE TO RECEIVE 3,000 PSI CONCRETE APRONS REINFORCED WITH FIBER MESH.
- PAVEMENT AND DRIVEWAY RESTORATION ARE TO MATCH EXISTING GRADE UNLESS OTHERWISE NOTED.
- ANY EXISTING UTILITIES DAMAGED BY THE ON-GOING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR IN KIND.
- CONTRACTOR TO PROVIDE DETAILED AS-BUILTS SURVEYS THAT CLEARLY DEFINE AREAS OF WORK COMPLETED UNDER THIS CONTRACT INCLUDING BUT NOT LIMITED TO ALL RIM ELEVATIONS (EXISTING AND PROPOSED STRUCTURES), ALL INVERTS, BOTTOM OF STRUCTURE, SUFFICIENT SWALE ELEVATIONS TO DEMONSTRATE THAT SWALES DRAIN TO INLETS, LOCATION OF EXFILTRATION TRENCH, LOCATION OF DRIVEWAY RESTORATION, AND RESTORED ASPHALT PAVEMENT.
- CONTRACTOR TO BE CAUTIOUS OF THE EXISTING WAST UTILITIES LOCATED WITHIN THE SPECIALIZED PREPARATION AREA. SPECIALIZED PREPARATION SHALL CONSIST OF S-II ASPHALT SURFACE COURSE (2\"/>
- SITE PREPARATION AND GRADING SHALL BE PERFORMED AT PAVEMENT AREAS, PLAYGROUND, OUT DOOR GYM, BLEACHER PADS, WALKWAYS, PARKING LOT AND BASEBALL/ MIXED USED FIELD AS SPECIFIED UNDER THE RECOMMENDATIONS NOTED IN THE GEOTECHNICAL REPORT PROVIDED BY NV5 TITLED "GEOTECHNICAL STUDY - PROPOSED DOUGLAS PARK IMPROVEMENTS, 2795 SW 37TH AVENUE" AND DATED DECEMBER 17, 2015. CONTRACTOR IS TO HAVE THIS REPORT ON-SITE AT ALL TIMES DURING CONSTRUCTION.

LEGEND

- - - CENTER LINE
- - - PROPERTY LINE
- [] PROP. CATCH BASIN *
- - - PROP. STORMWATER LINE *
- (M) PROP. MANHOLE *
- (G) GRAVITY WELL BOX *
- X.XX M.E. MATCH EXISTING ELEVATION, FT NGVD
- X.XX PROPOSED FINAL PAVEMENT ELEVATION, FT NGVD
- X.XX PROPOSED FINAL SOD ELEVATION, FT NGVD
- S-1 PROPOSED DRAINAGE STRUCTURE DESIGNATION
- SECTION I.D. SHEET WHERE SECTION IS SHOWN
- [] SPECIALIZED PREPARATION AREA (REFER TO NOTE 11)

* REFER TO PLANS FOR SIZE AND MATERIAL.

S-1 CATCH BASIN FDOT TYPE P (42") RIM EL: 11.30' B.O.S. EL: 2.90' INV. EL. (N): N/A INV. EL. (S): N/A INV. EL. (E): 6.40' INV. EL. (W): 6.40' W/BAFFLE	S-3 CATCH BASIN D-3 (MDWP SD 2.2) RIM EL: 10.70' B.O.S. EL: 3.30' INV. EL. (N): N/A INV. EL. (S): N/A INV. EL. (E): N/A INV. EL. (W): 6.70' W/ BAFFLE	S-4 MANHOLE FDOT TYPE P (48") TYPE A FRAME AND COVER RIM EL: 12.40' B.O.S. EL: 3.90' INV. EL. (N): 5.90' INV. EL. (S): 5.90' INV. EL. (E): 6.60' INV. EL. (W): N/A	S-5 MANHOLE FDOT TYPE P (48") TYPE A FRAME AND COVER RIM EL: 11.40' B.O.S. EL: 2.60' INV. EL. (N): 6.10' W/ BAFFLE INV. EL. (S): N/A INV. EL. (E): 6.10' INV. EL. (W): N/A	S-6 CURB INLET FDOT TYP P (42") USF 5129-6176 RIM EL: 10.00' B.O.S. EL: 4.00' INV. EL. (N): N/A INV. EL. (S): N/A INV. EL. (E): N/A INV. EL. (W): 6.00'
S-8 CATCH BASIN FDOT TYPE P (42") RIM EL: 10.30' B.O.S. EL: 2.20' INV. EL. (N): 5.70' INV. EL. (S): 5.70' INV. EL. (E): N/A INV. EL. (W): N/A	S-9 MANHOLE FDOT TYPE P (48") TYPE A FRAME AND COVER RIM EL: 12.10' B.O.S. EL: 3.40' INV. EL. (N): 6.00' INV. EL. (S): N/A INV. EL. (E): 5.40' INV. EL. (W): 5.40'	S-10 CATCH BASIN D-3 (MDWP SD 2.2) RIM EL: 10.60' B.O.S. EL: 2.60' INV. EL. (N): N/A INV. EL. (S): 6.10' W/ BAFFLE INV. EL. (E): N/A INV. EL. (W): N/A	S-12 NYLOPLAST 24" DRAIN BASIN RIM EL: 12.30' B.O.S. EL: 2.50' INV. EL. (N): 5.50' INV. EL. (S): 5.40' INV. EL. (E): N/A INV. EL. (W): N/A	S-13 NYLOPLAST 24" DRAIN BASIN RIM EL: 10.20' B.O.S. EL: 4.00' INV. EL. (N): 6.00' INV. EL. (S): 6.00' INV. EL. (E): N/A INV. EL. (W): N/A
S-15 NYLOPLAST 24" DRAIN BASIN RIM EL: 12.30' B.O.S. EL: 5.00' INV. EL. (N): N/A INV. EL. (S): 7.00' INV. EL. (E): 7.00' INV. EL. (W): N/A	S-16 NYLOPLAST 24" DRAIN BASIN RIM EL: 12.30' B.O.S. EL: 5.30' INV. EL. (N): N/A INV. EL. (S): N/A INV. EL. (E): 7.30' INV. EL. (W): 7.30'	S-17 NYLOPLAST 24" DRAIN BASIN RIM EL: 12.50' B.O.S. EL: 5.10' INV. EL. (N): N/A INV. EL. (S): N/A INV. EL. (E): 7.10' INV. EL. (W): 7.10'	S-18 NYLOPLAST 24" DRAIN BASIN RIM EL: 12.30' B.O.S. EL: 5.70' INV. EL. (N): N/A INV. EL. (S): 7.70' INV. EL. (E): N/A INV. EL. (W): 7.70'	S-19 NYLOPLAST 15" INLINE DRAIN RIM EL: 9.80' B.O.S. EL: 5.80' INV. EL. (N): N/A INV. EL. (S): 5.80' INV. EL. (E): N/A INV. EL. (W): N/A
S-20 NYLOPLAST 24" DRAIN BASIN RIM EL: 10.20' B.O.S. EL: 3.70' INV. EL. (N): 5.70' INV. EL. (S): 5.70' INV. EL. (E): N/A INV. EL. (W): N/A	S-21 NYLOPLAST 15" INLINE DRAIN RIM EL: 12.50' B.O.S. EL: 8.00' INV. EL. (N): N/A INV. EL. (S): 8.00' INV. EL. (E): N/A INV. EL. (W): N/A	S-22 NYLOPLAST 15" INLINE DRAIN RIM EL: 12.50' B.O.S. EL: 8.00' INV. EL. (N): 8.00' INV. EL. (S): N/A INV. EL. (E): N/A INV. EL. (W): N/A	S-23 NYLOPLAST 24" DRAIN BASIN RIM EL: 12.30' B.O.S. EL: 3.50' INV. EL. (N): 5.50' INV. EL. (S): 5.50' INV. EL. (E): N/A INV. EL. (W): N/A	S-24 NYLOPLAST 24" DRAIN BASIN RIM EL: 12.30' B.O.S. EL: 3.80' INV. EL. (N): 5.80' INV. EL. (S): 5.80' INV. EL. (E): N/A INV. EL. (W): N/A
S-25 NYLOPLAST 24" DRAIN BASIN RIM EL: 11.00' B.O.S. EL: 4.20' INV. EL. (N): 6.20' INV. EL. (S): N/A INV. EL. (E): 6.20' INV. EL. (W): N/A	S-26 NYLOPLAST 15" INLINE DRAIN RIM EL: 11.00' B.O.S. EL: 6.50' INV. EL. (N): N/A INV. EL. (S): N/A INV. EL. (E): N/A INV. EL. (W): 6.50'	S-27 NYLOPLAST 15" INLINE DRAIN RIM EL: 12.50' B.O.S. EL: 6.50' INV. EL. (N): N/A INV. EL. (S): N/A INV. EL. (E): 6.50' INV. EL. (W): 6.50'	GW-1.A GRAVITY WELL (5'X10') RIM EL: 12.50' B.O.S. EL: 1.40' TOP OF WELL EL.: 4.90' INV. EL. (N): 7.00' INV. EL. (S): 5.40' INV. EL. (E): N/A INV. EL. (W): N/A	GW-1.B GRAVITY WELL (5'X10') RIM EL: 12.50' B.O.S. EL: 2.50' TOP OF WELL EL.: 6.00' INV. EL. (N): N/A INV. EL. (S): N/A INV. EL. (E): 7.50' INV. EL. (W): 6.50'
GW-2.A GRAVITY WELL (5'X10') RIM EL: 13.10' B.O.S. EL: 1.70' TOP OF WELL EL.: 5.20' INV. EL. (N): N/A INV. EL. (S): 5.70' INV. EL. (E): 6.30' INV. EL. (W): N/A	GW-2.B GRAVITY WELL (5'X10') RIM EL: 12.00' B.O.S. EL: 2.00' TOP OF WELL EL.: 5.50' INV. EL. (N): 6.00' INV. EL. (S): 6.00' INV. EL. (E): N/A INV. EL. (W): N/A	GW-3.A GRAVITY WELL (5'X10') RIM EL: 12.00' B.O.S. EL: 1.20' TOP OF WELL EL.: 4.70' INV. EL. (N): 5.60' INV. EL. (S): N/A INV. EL. (E): 5.20' INV. EL. (W): N/A	GW-3.B GRAVITY WELL (5'X10') RIM EL: 12.50' B.O.S. EL: 1.20' TOP OF WELL EL.: 4.70' INV. EL. (N): 5.20' INV. EL. (S): N/A INV. EL. (E): N/A INV. EL. (W): 5.20'	

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CERTIFICATE OF AUTHORIZATION NO. 00004892

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CITY OF MIAMI
CAPITAL IMPROVEMENTS PROGRAM
444 SW 2ND AVENUE
MIAMI, FLORIDA 33130

REV	DESCRIPTION	DATE

SCALE: AS NOTED

FILE NAME: C-6.0 PGD_PLAN.DWG

DRAWN BY: JDR

CHECKED BY: PJD

DATE: DECEMBER 2015


DRAWING TITLE:

PAVING, GRADING AND DRAINAGE PLAN

DRAWING NUMBER:

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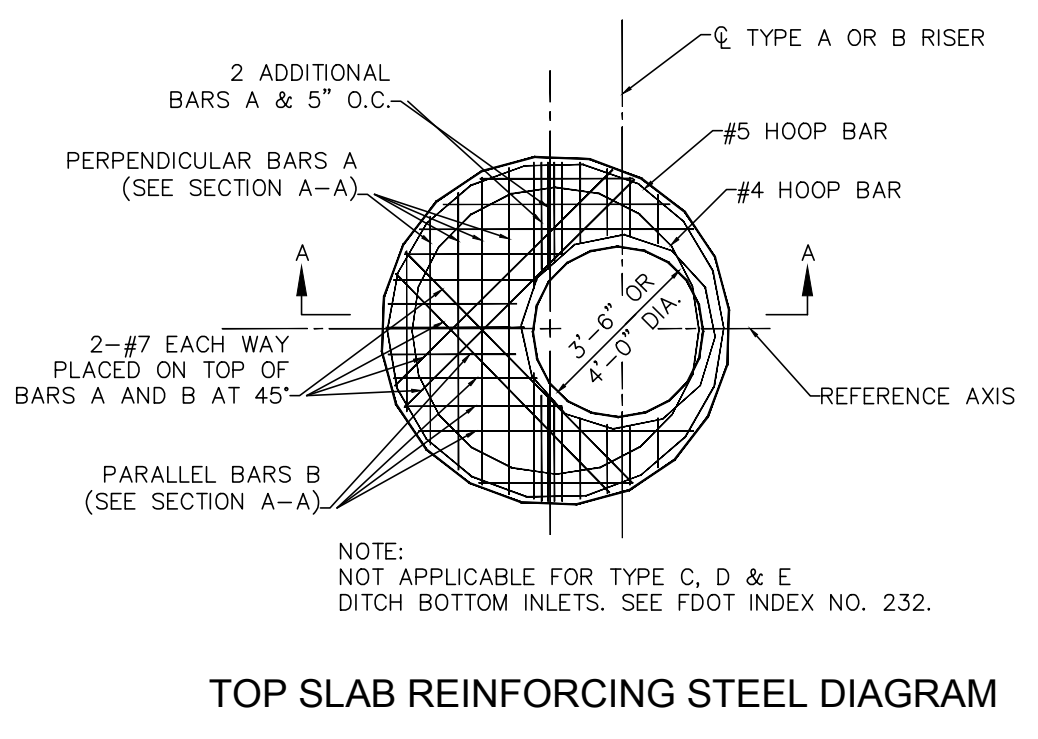
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C-6.0

DRAWING NUMBER: SHEET **10** of **17**

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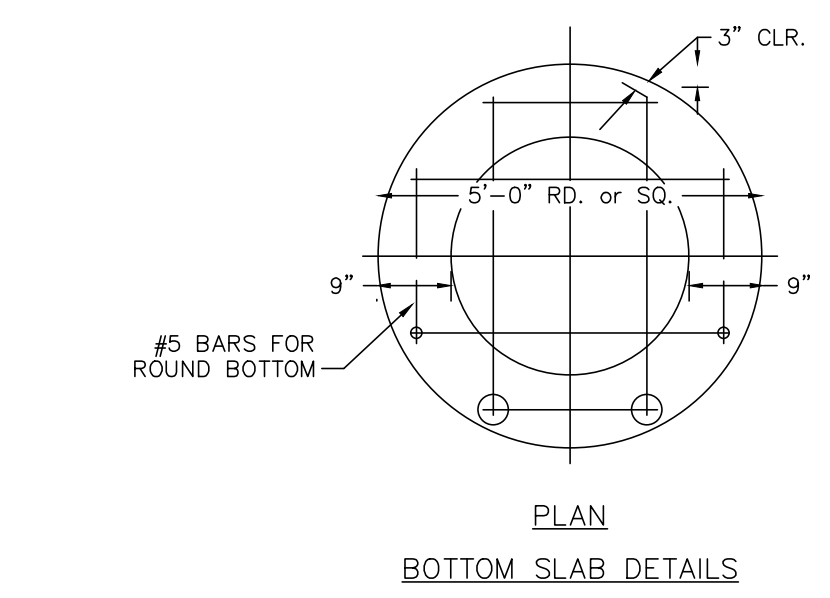
TOP SLAB REINFORCING STEEL DIAGRAM

NOTES:

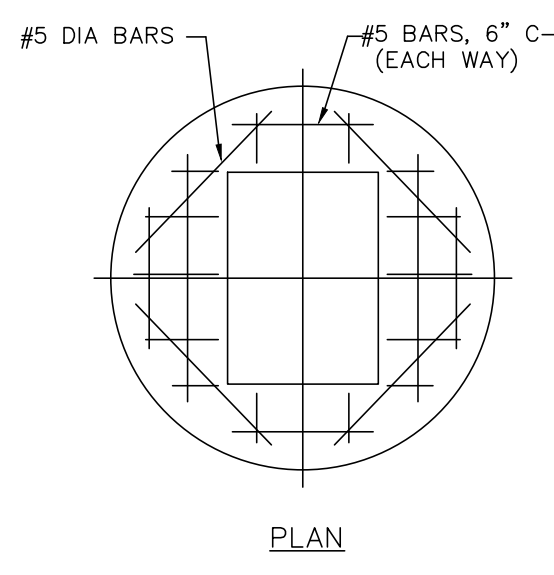
- CIRCULAR STRUCTURES (ALTERNATE 'A') CONSTRUCTED OF CONCRETE. THE CONCRETE SHALL BE PRECAST.
- WALL REINFORCEMENTS AND THICKNESS ARE FOR PRECAST CONCRETE. PRECAST CIRCULAR UNITS IN ACCORDANCE WITH ASTM SPECIFICATION C-478 WILL BE ACCEPTABLE. TOP AND FLOOR SLAB THICKNESS AND REINFORCEMENT ARE FOR ALL TYPES OF CONSTRUCTION.
- PRECAST TOP AND/OR FLOOR SLABS MAY BE OF THE SAME CONCRETE AS SPECIFIED IN ASTM SPECIFICATIONS C-478 FOR PRECAST CIRCULAR UNITS.
- CORNER FILLETS SHOWN FOR RECTANGULAR STRUCTURES ARE NECESSARY ONLY WHEN STRUCTURES ARE USED IN CONJUNCTION WITH CIRCULAR TOPS.
- STRUCTURES SHALL BE SECURED TO INLET THROATS, RISERS OR MANHOLE TOPS WITH A MINIMUM OF 6-NO 4 BARS 12\"/>

STRUCTURE BOTTOMS (TYPES P AND J)

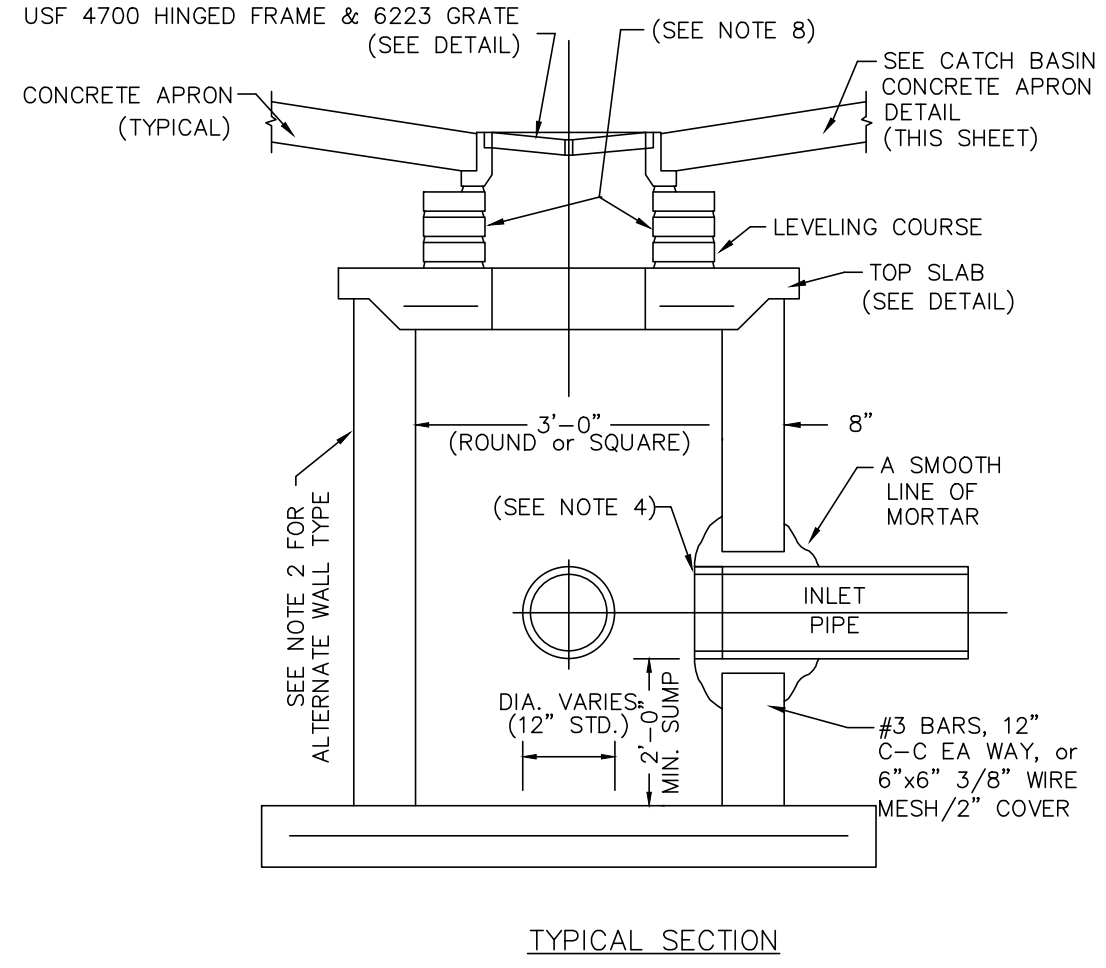
SCALE: N.T.S.
REFER TO FDOT STD.
INDEX 200 & 201



PLAN
BOTTOM SLAB DETAILS



PLAN
TOP SLAB DETAILS

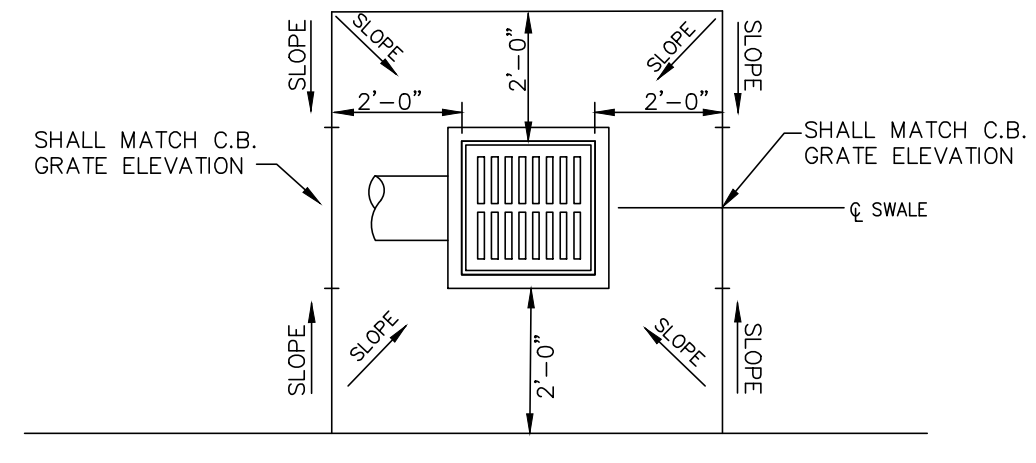


PRECAST CATCH BASIN (D-3)

SCALE: N.T.S.
REFER TO MIAMI DADE PUBLIC WORKS STANDARD DETAIL SD 2.2

NOTES:

- CAST TOP SLAB TO FIT WALL USED.
- TONGUE & GROOVE REINFORCED CONCRETE PIPE A.S.T.M. DESIGNATION C-76 CLASS III.
- PIPES MAY EXTEND INTO CATCH BASIN A MAXIMUM OF 3\"/>

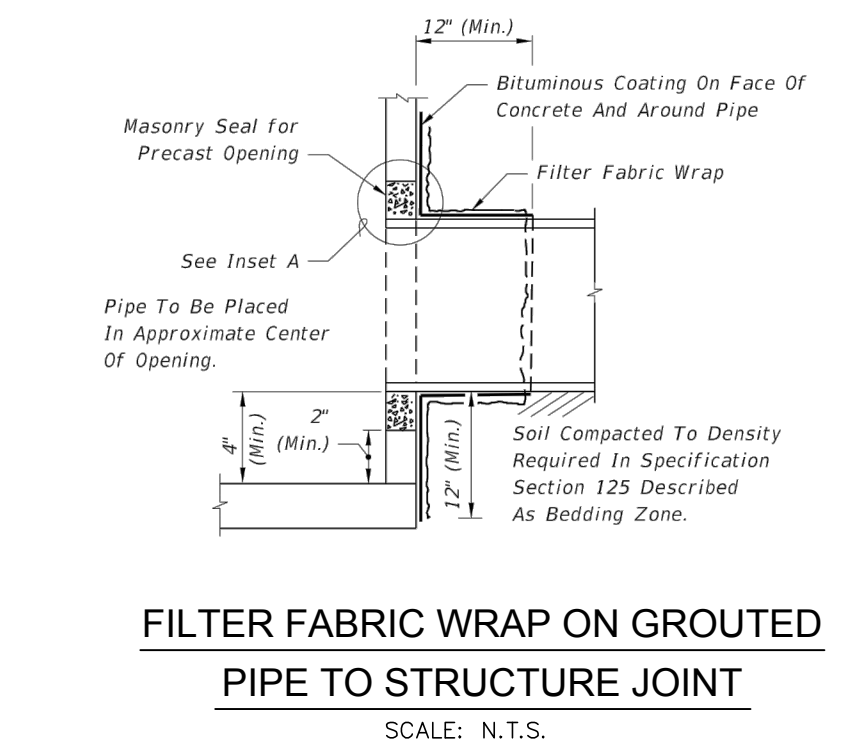


CATCH BASIN CONCRETE APRON DETAIL

SCALE: N.T.S.

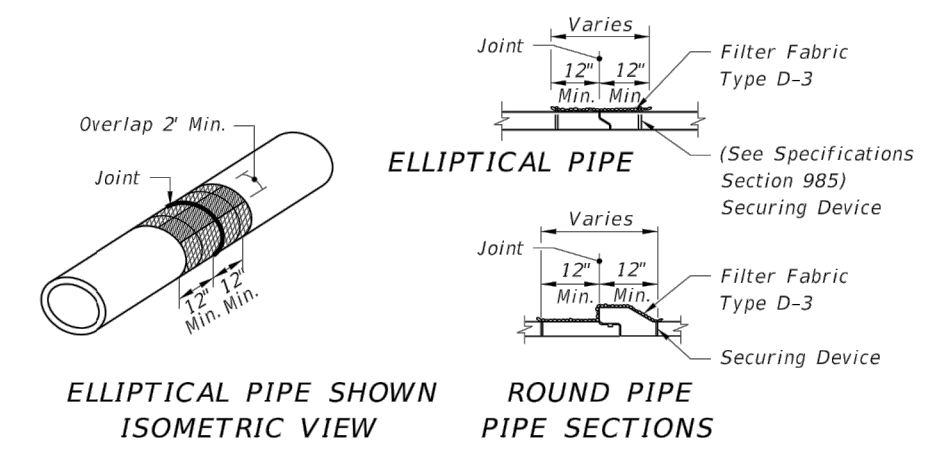
NOTES:

- CONCRETE AROUND CATCH BASIN TO BE 8\"/>



FILTER FABRIC WRAP ON GROUTED PIPE TO STRUCTURE JOINT

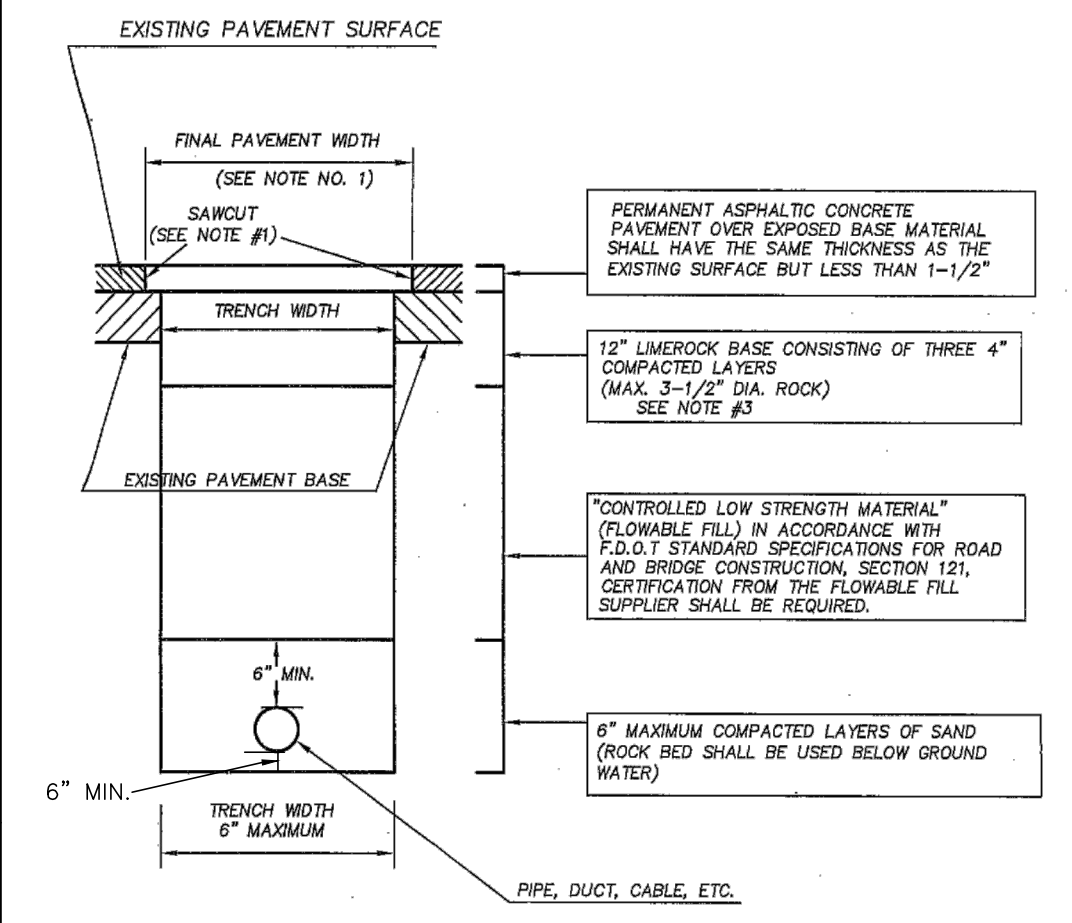
SCALE: N.T.S.
REFER TO FDOT STD.
INDEX 201



FOR ALL PIPE TYPES - CONCRETE PIPE SHOWN

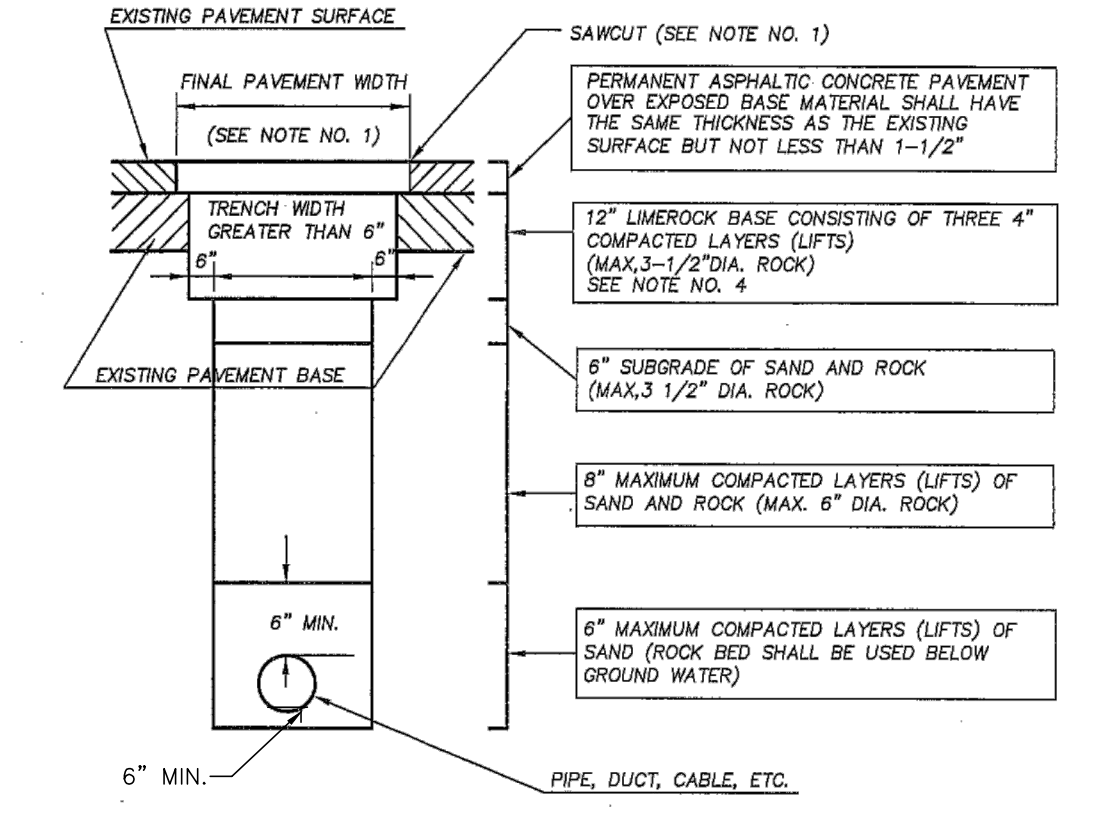
FILTER FABRIC JACKET

SCALE: N.T.S.
REFER TO FDOT STD.
INDEX 280



FOR TRENCHES 6\"/>

SCALE: N.T.S.
REFER TO DEPARTMENT OF PUBLIC WORKS
CITY OF MIAMI, FLORIDA
STANDARD DETAIL R-5 MISC. 35-88-8

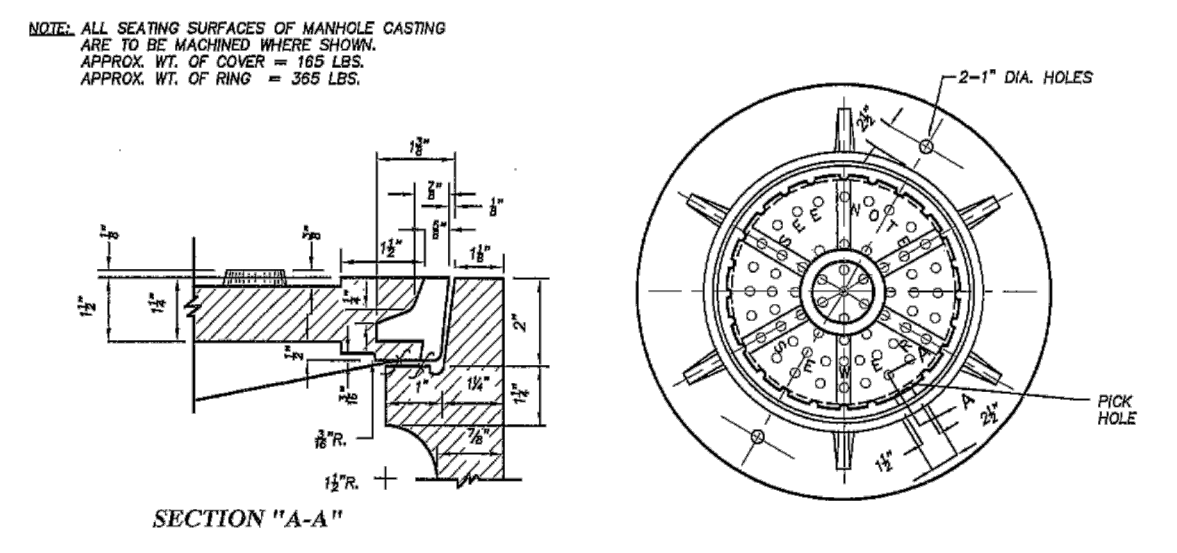


FOR TRENCHES GREATER THEN 6\"/>

SCALE: N.T.S.
REFER TO DEPARTMENT OF PUBLIC WORKS
CITY OF MIAMI, FLORIDA
STANDARD DETAIL R-3 MISC. 35-88-7

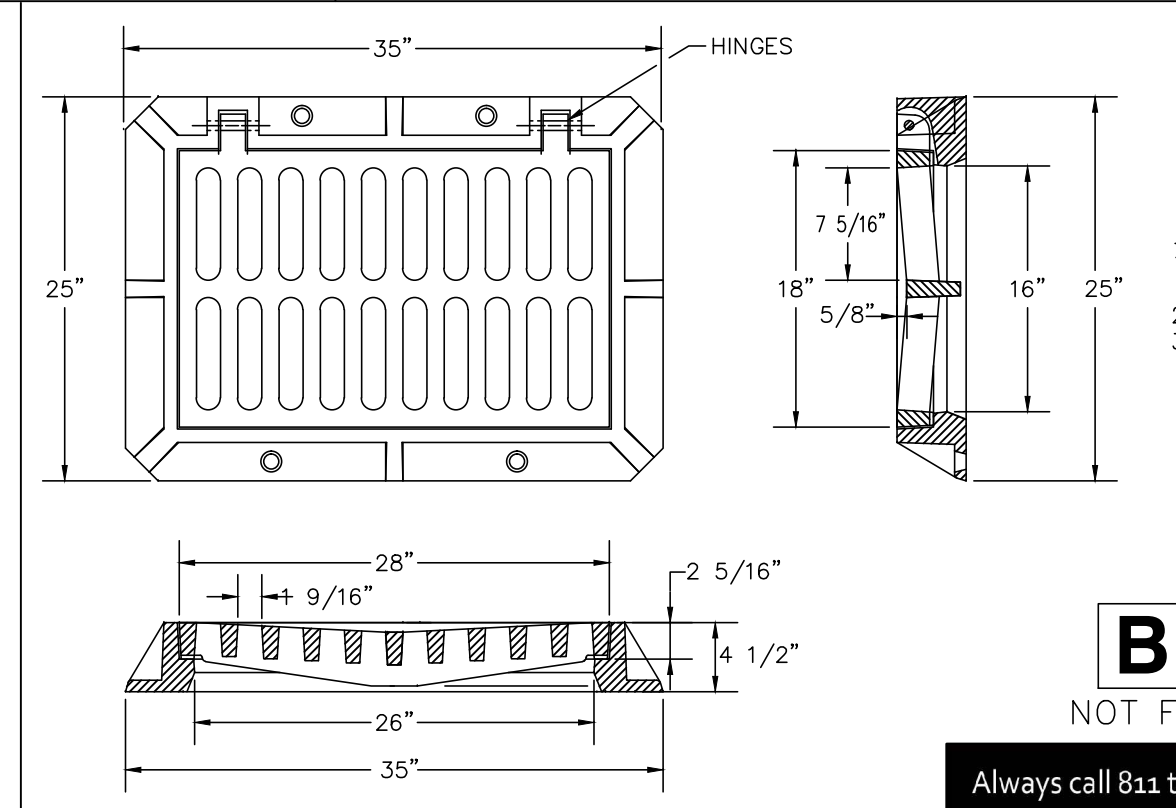
- FINAL PAVEMENT RESTORATION WIDTH SHALL BE IN ACCORDANCE WITH DEPARTMENT OF PUBLIC WORKS BULLETIN NO. 27.
- EXISTING CONCRETE PAVEMENT OR CONCRETE BASE SHALL BE REPLACED WITH CONTROLLED LOW STRENGTH MATERIAL (CLSM) OF ASHTEO T-180 (MODIFIED PROCTOR) 6\"/>

NOTE: LETTERS DESIGNATING TYPE OF SEWER, SANITARY OR STORM TO BE ARRANGED ON AN ARC OF 6-1/2\"/>



TYPE "A" MANHOLE FRAME & COVER

SCALE: N.T.S.
REFER TO DEPARTMENT OF PUBLIC WORKS
CITY OF MIAMI, FLORIDA
STANDARD DETAIL R-2 MISC. 35-86-8



CATCH BASIN FRAME AND HINGED GRATE

SCALE: N.T.S.
USF 4700 FRAME & 6223 GRATE OR APPROVED EQUAL

- NOTES:
- MATERIAL: ASTM-A48 CLASS 30B GRAY IRON
 - GRATE WT. IS 155 LBS APP.
 - FRAME WT. IS 210 LBS. APP.

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SUBCONSULTANT:

PROFESSIONAL SEAL:

PETER J DUENO, P.E.
FL LICENSE NO. 73781
SCS ENGINEERS

PROJECT NUMBER: 09213010.43

PROJECT NAME & ADDRESS:

DOUGLAS PARK
CORRECTIVE ACTION PLAN
2795 SW 37 AVE
MIAMI, FL

CLIENT NAME & ADDRESS:



CITY OF MIAMI
CAPITAL IMPROVEMENTS PROGRAM
444 SW 2ND AVENUE
MIAMI, FLORIDA 33130

REV	DESCRIPTION	DATE

SCALE: AS NOTED

FILE NAME: C-6.1 TYP_DETAILS.DWG

DRAWN BY: JDR

CHECKED BY: PJD

DATE: DECEMBER 2015

DRAWING TITLE:

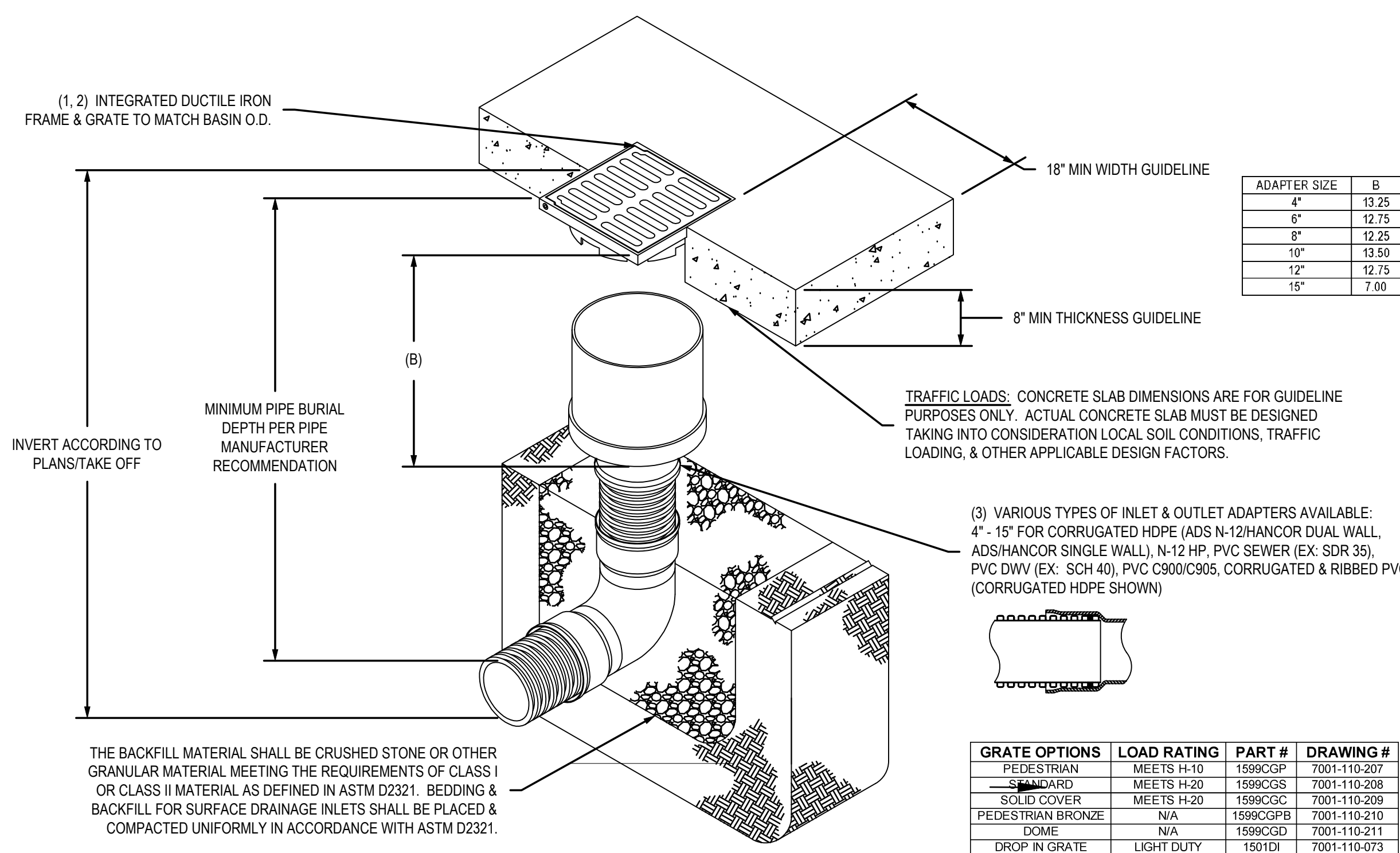
PAVING, GRADING AND DRAINAGE DETAILS

DRAWING NUMBER:

C-6.1

SHEET 11 of 17

NYLOPLAST 15" INLINE DRAIN: 2715AG __ X



ADAPTER SIZE	B
4"	13.25
6"	12.75
8"	12.25
10"	13.50
12"	12.75
15"	7.00

(3) VARIOUS TYPES OF INLET & OUTLET ADAPTERS AVAILABLE:
 4" - 15" FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL, ADS/HANCOR SINGLE WALL), N-12 HP, PVC SEWER (EX. SDR 35), PVC DWV (EX. SCH 40), PVC C900/C905, CORRUGATED & RIBBED PVC (CORRUGATED HDPE SHOWN)

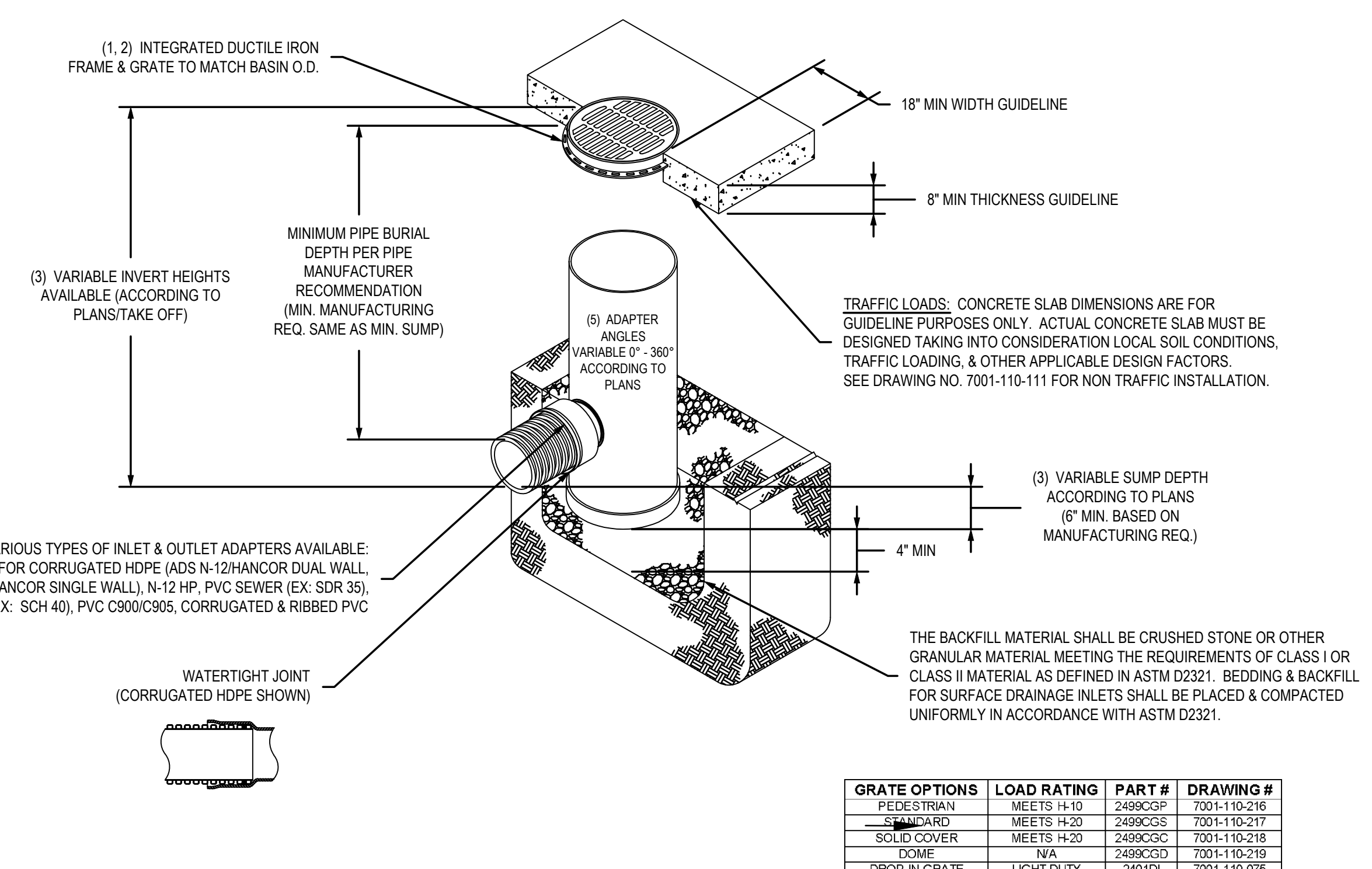
GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
PEDESTRIAN	MEETS H-10	1599CGP	7001-110-207
STAIRLAND	MEETS H-20	1599CGS	7001-110-208
SOLID COVER	MEETS H-20	1599CGC	7001-110-209
PEDESTRIAN BRONZE	N/A	1599CGPB	7001-110-210
DOME	N/A	1599CGD	7001-110-211
DROP IN GRATE	LIGHT DUTY	1501DI	7001-110-073

- GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05, WITH THE EXCEPTION OF THE BRONZE GRATE.
- FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER.
- DIMENSIONS ARE FOR REFERENCE ONLY. ACTUAL DIMENSIONS MAY VARY.
- DIMENSIONS ARE IN INCHES.
- SEE DRAWING NO. 7001-110-275 FOR ADS N-12 & HANCOR DUAL WALL BELL INFORMATION & DRAWING NO. 7001-110-364 FOR N-12 HP BELL INFORMATION.

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DRAWN BY	EBC	MATERIAL	3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com
DATE	04-03-06	PROJECT NO./NAME	
REVISED BY	CCA	TITLE	15 IN INLINE DRAIN QUICK SPEC INSTALLATION DETAIL
DATE	08-19-13	DWG NO.	7003-110-026
DWG SIZE	A	SCALE	1:20
SHEET	1 OF 1	REV	D

NYLOPLAST 24" DRAIN BASIN: 2824AG __ X



(4) VARIOUS TYPES OF INLET & OUTLET ADAPTERS AVAILABLE:
 4" - 24" FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL, ADS/HANCOR SINGLE WALL), N-12 HP, PVC SEWER (EX. SDR 35), PVC DWV (EX. SCH 40), PVC C900/C905, CORRUGATED & RIBBED PVC

GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
PEDESTRIAN	MEETS H-10	2499CGP	7001-110-216
STAIRLAND	MEETS H-20	2499CGS	7001-110-217
SOLID COVER	MEETS H-20	2499CGC	7001-110-218
DOME	N/A	2499CGD	7001-110-219
DROP IN GRATE	LIGHT DUTY	2401DI	7001-110-075

- GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065.
- DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP & PVC SEWER.
- ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360° TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.

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DATE	04-03-06	PROJECT NO./NAME	
REVISED BY	CCA	TITLE	24 IN DRAIN BASIN QUICK SPEC INSTALLATION DETAIL
DATE	08-27-13	DWG NO.	7001-110-192
DWG SIZE	A	SCALE	1:40
SHEET	1 OF 1	REV	D

Section 2722
Engineered Surface Drainage Products

GENERAL
 PVC surface drainage inlets shall be of the inline drain type as indicated on the contract drawing and referenced within the contract specifications. The ductile iron grates for each of these fittings are to be considered an integral part of the surface drainage inlet and shall be furnished by the same manufacturer. The surface drainage inlets shall be as manufactured by Nyloplast a division of Advanced Drainage Systems, Inc., or prior approved equal.

MATERIALS
 The inline drain required for this contract shall be manufactured from PVC pipe stock, utilizing a thermo-molding process to reform the pipe stock to the furnished configuration. The drainage pipe connection stubs shall be manufactured from PVC pipe stock and formed to provide a watertight connection with the specified pipe system. This joint tightness shall conform to ASTM D3212 for joints for drain and sewer plastic pipe using flexible elastomeric seals. The flexible elastomeric seals shall conform to ASTM F477. The pipe bell spigot shall be joined to the inline drain body by use of a swage mechanical joint. The raw material used to manufacture the pipe stock that is used to manufacture the inline drain body and pipe stubs of the surface drainage inlets shall conform to ASTM D1784 cell class 12454.

The grates furnished for all surface drainage inlets shall be ductile iron grates for sizes 8", 10", 12", 15", 18", 24" and 30" shall be made specifically for each fitting so as to provide a round bottom flange that closely matches the diameter of the surface drainage inlet. Grates for inline drains shall be capable of supporting H-20 wheel loading for traffic areas or H-10 loading for pedestrian areas. 12" and 15" square grates will be hinged to the frame using pins. Metal used in the manufacture of the castings shall conform to ASTM A536 grade 70-50-05 for ductile iron. Grates shall be provided painted black.

INSTALLATION
 The specified PVC surface drainage inlet shall be installed using conventional flexible pipe backfill materials and procedures. The backfill material shall be crushed stone or other granular material meeting the requirements of class 1 or class 2 material as defined in ASTM D2321. Bedding and backfill for surface drainage inlets shall be well placed and compacted uniformly in accordance with ASTM D2321. The drain basin body will be cut at the time of the final grade. No brick, stone or concrete block will be required to set the grate to the final grade height. For H-20 load rated installations, a concrete ring will be poured under and around the grate and frame. The concrete slab must be designed taking into consideration local soil conditions, traffic loading, and other applicable design factors. For other installation considerations such as migration of fines, ground water, and soft foundations refer to ASTM D2321 guidelines.

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DRAWN BY	CJA	MATERIAL	3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com
DATE	03-10-00	PROJECT NO./NAME	
REVISED BY	CCA	TITLE	8 IN - 30 IN INLINE DRAIN SPECIFICATIONS
DATE	09-09-13	DWG NO.	7003-110-009
DWG SIZE	A	SCALE	1:1
SHEET	1 OF 1	REV	G

Section 2721
Engineered Surface Drainage Products

GENERAL
 PVC surface drainage inlets shall include the drain basin type as indicated on the contract drawing and referenced within the contract specifications. The ductile iron grates for each of these fittings are to be considered an integral part of the surface drainage inlet and shall be furnished by the same manufacturer. The surface drainage inlets shall be as manufactured by Nyloplast a division of Advanced Drainage Systems, Inc., or prior approved equal.

MATERIALS
 The drain basins required for this contract shall be manufactured from PVC pipe stock, utilizing a thermoforming process to reform the pipe stock to the specified configuration. The drainage pipe connection stubs shall be manufactured from PVC pipe stock and formed to provide a watertight connection with the specified pipe system. This joint tightness shall conform to ASTM D3212 for joints for drain and sewer plastic pipe using flexible elastomeric seals. The flexible elastomeric seals shall conform to ASTM F477. The pipe bell spigot shall be joined to the main body of the drain basin or catch basin. The raw material used to manufacture the pipe stock that is used to manufacture the main body and pipe stubs of the surface drainage inlets shall conform to ASTM D1784 cell class 12454.

The grates and frames furnished for all surface drainage inlets shall be ductile iron for sizes 8", 10", 12", 15", 18", 24" and 30" and shall be made specifically for each basin so as to provide a round bottom flange that closely matches the diameter of the surface drainage inlet. Grates for drain basins shall be capable of supporting various wheel loads as specified by Nyloplast. 12" and 15" square grates will be hinged to the frame using pins. Ductile iron used in the manufacture of the castings shall conform to ASTM A536 grade 70-50-05. Grates and covers shall be provided painted black.

INSTALLATION
 The specified PVC surface drainage inlet shall be installed using conventional flexible pipe backfill materials and procedures. The backfill material shall be crushed stone or other granular material meeting the requirements of class 1 or class 2 material as defined in ASTM D2321. Bedding and backfill for surface drainage inlets shall be well placed and compacted uniformly in accordance with ASTM D2321. The drain basin body will be cut at the time of the final grade. No brick, stone or concrete block will be required to set the grate to the final grade height. For load rated installations, a concrete slab must be poured under and around the grate and frame. The concrete slab must be designed taking into consideration local soil conditions, traffic loading, and other applicable design factors. For other installation considerations such as migration of fines, ground water, and soft foundations refer to ASTM D2321 guidelines.

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DRAWN BY	CJA	MATERIAL	3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com
DATE	3-10-00	PROJECT NO./NAME	
REVISED BY	JJC	TITLE	8 IN - 30 IN DRAIN BASIN SPECIFICATIONS
DATE	4-25-13	DWG NO.	7001-110-011
DWG SIZE	A	SCALE	1:1
SHEET	1 OF 1	REV	G

SCS ENGINEERS
 STEARNS, CONRAD AND SCHMIDT
 CONSULTING ENGINEERS, INC.
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 PH. (305) 412-8185 FAX. (305) 412-8105 FL
 CERTIFICATE OF AUTHORIZATION NO. 00004892

SUBCONSULTANT:

PROFESSIONAL SEAL:

PETER J DUENO, P.E.
 FL LICENSE NO. 73781
 SCS ENGINEERS

PROJECT NUMBER: 09213010.43

PROJECT NAME & ADDRESS:

DOUGLAS PARK
 CORRECTIVE ACTION PLAN
 2795 SW 37 AVE
 MIAMI, FL

CLIENT NAME & ADDRESS:

CITY OF MIAMI
 CAPITAL IMPROVEMENTS PROGRAM
 444 SW 2ND AVENUE
 MIAMI, FLORIDA 33130

REV	DESCRIPTION	DATE

SCALE: AS NOTED

FILE NAME: C-6.1 TYP_DETAILS.DWG

DRAWN BY: JDR

CHECKED BY: PJD

DATE: DECEMBER 2015

DRAWING TITLE:

PAVING, GRADING AND DRAINAGE DETAILS

DRAWING NUMBER:

C-6.2

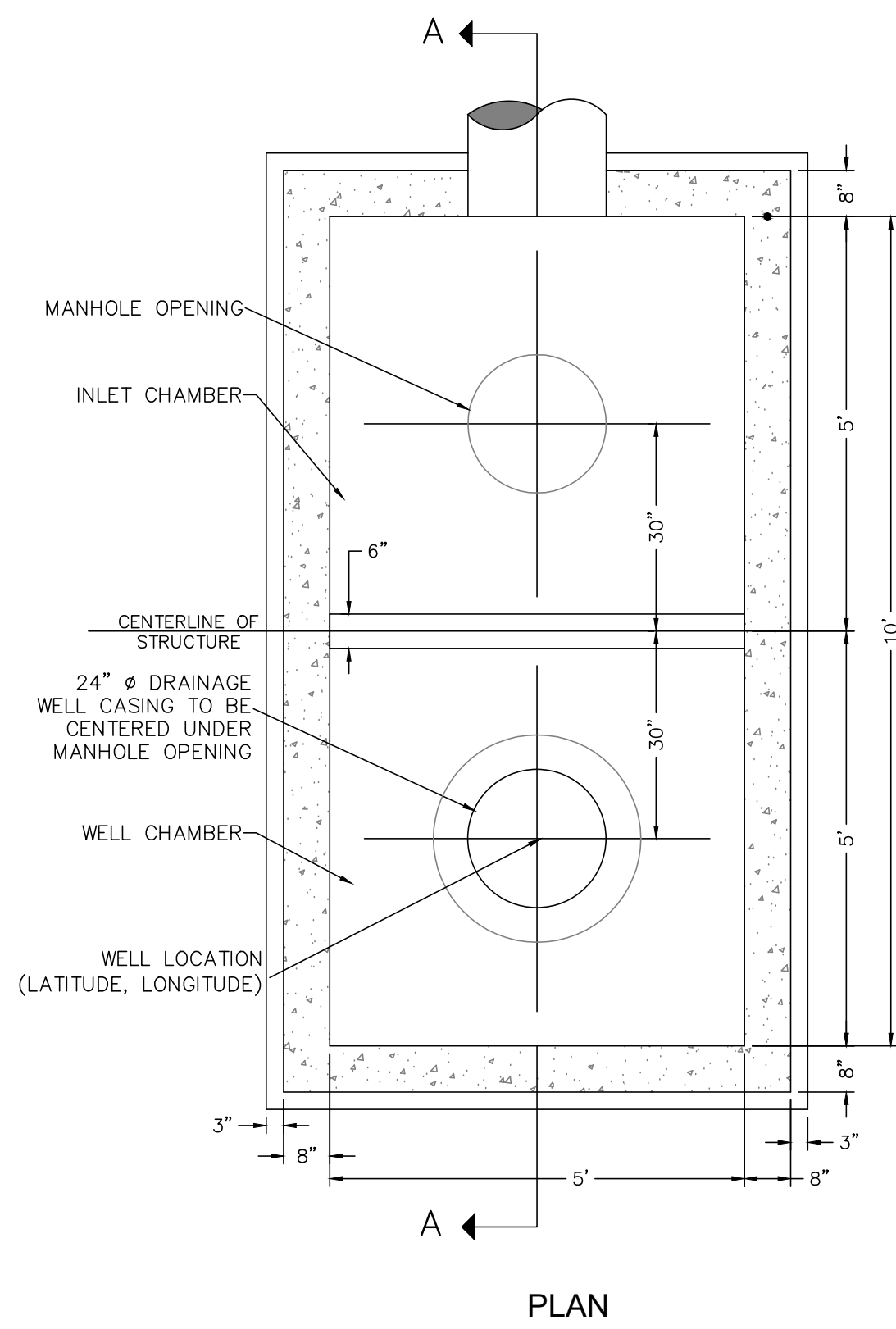
SHEET 12 of 17

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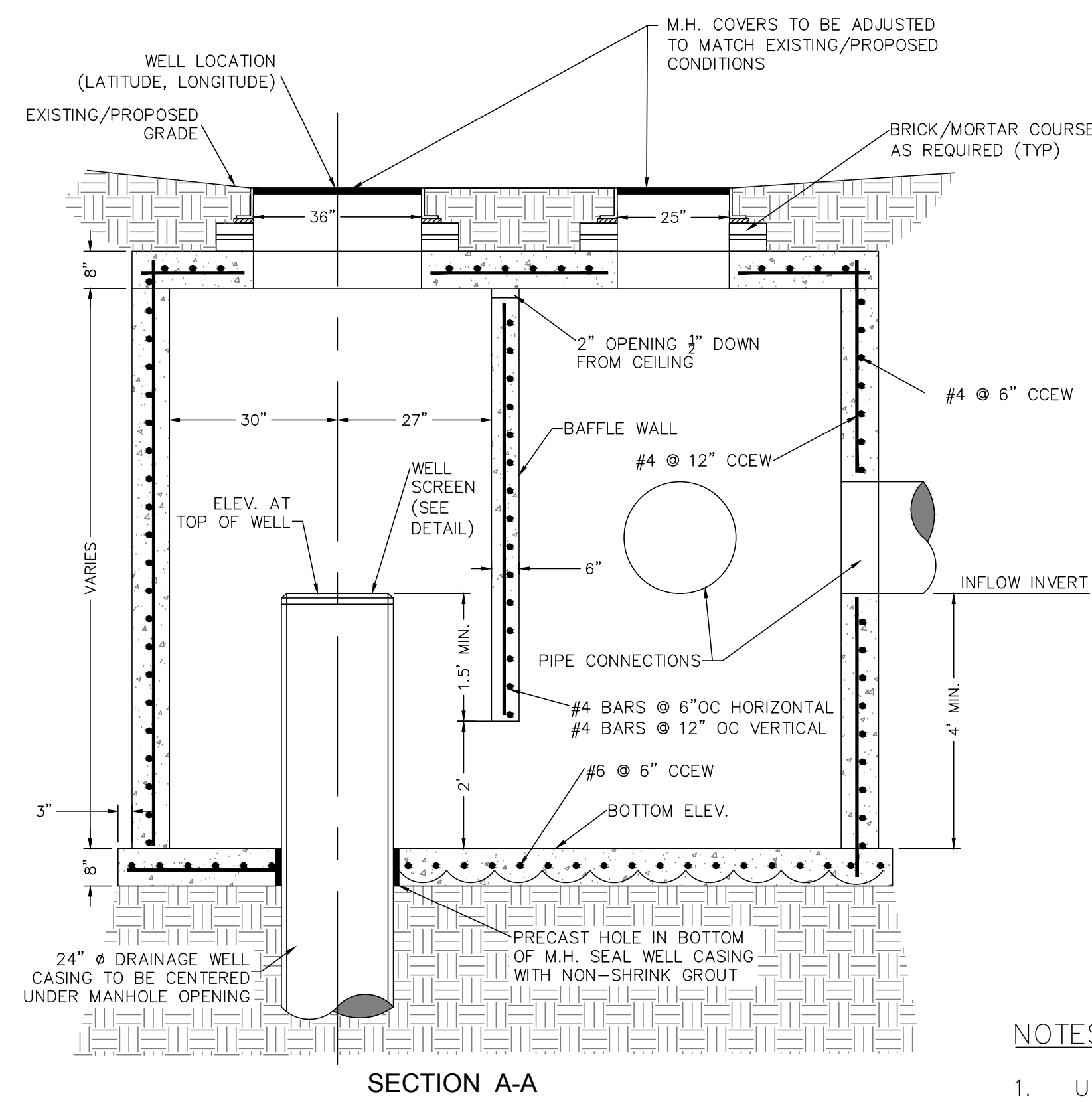
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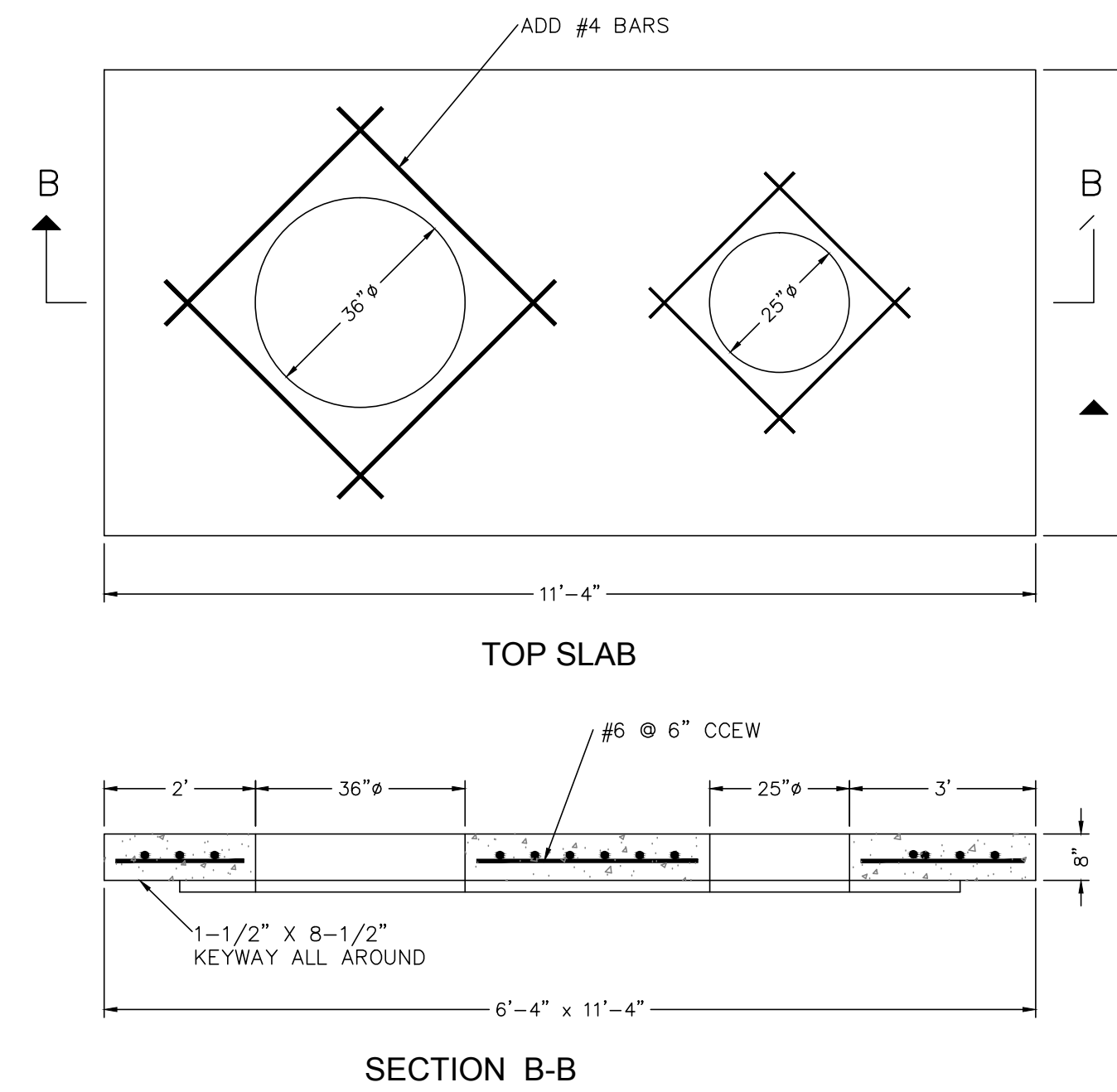
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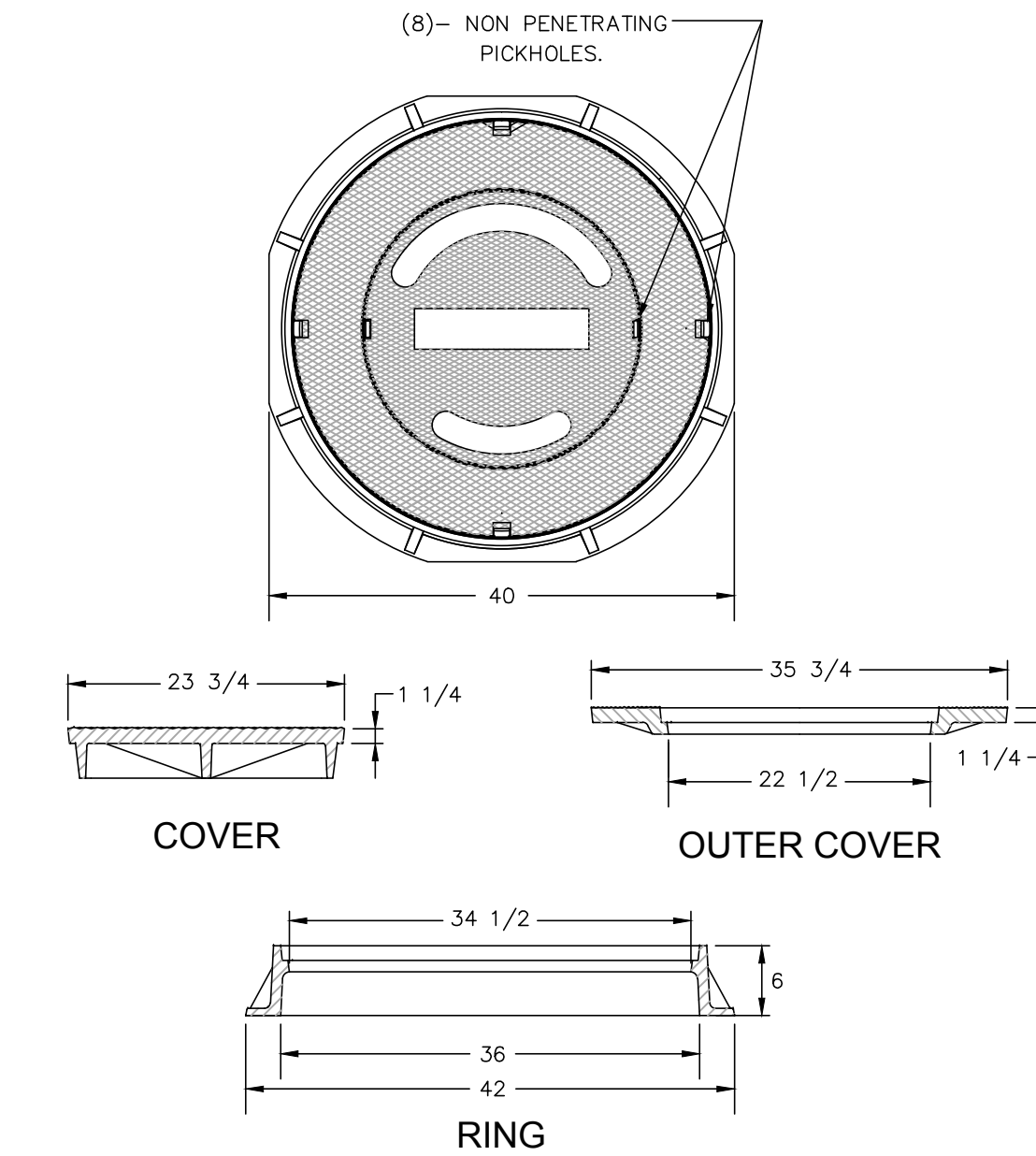
PLAN



SECTION A-A



SECTION B-B



COVER

OUTER COVER

RING

- NOTES:
- MATERIAL: ASTM-A48 CLASS 30B GRAY IRON.
 - RING WT: 220 LBS. APP.
 - OUTER COVER WT: 220 LBS. APP.
 - INNER COVER WT: 190 LBS. APP.
 - LETTERS SHALL STATE "WELL"

MANHOLE RING & COVER
USF 667 CR-OD
N.T.S.

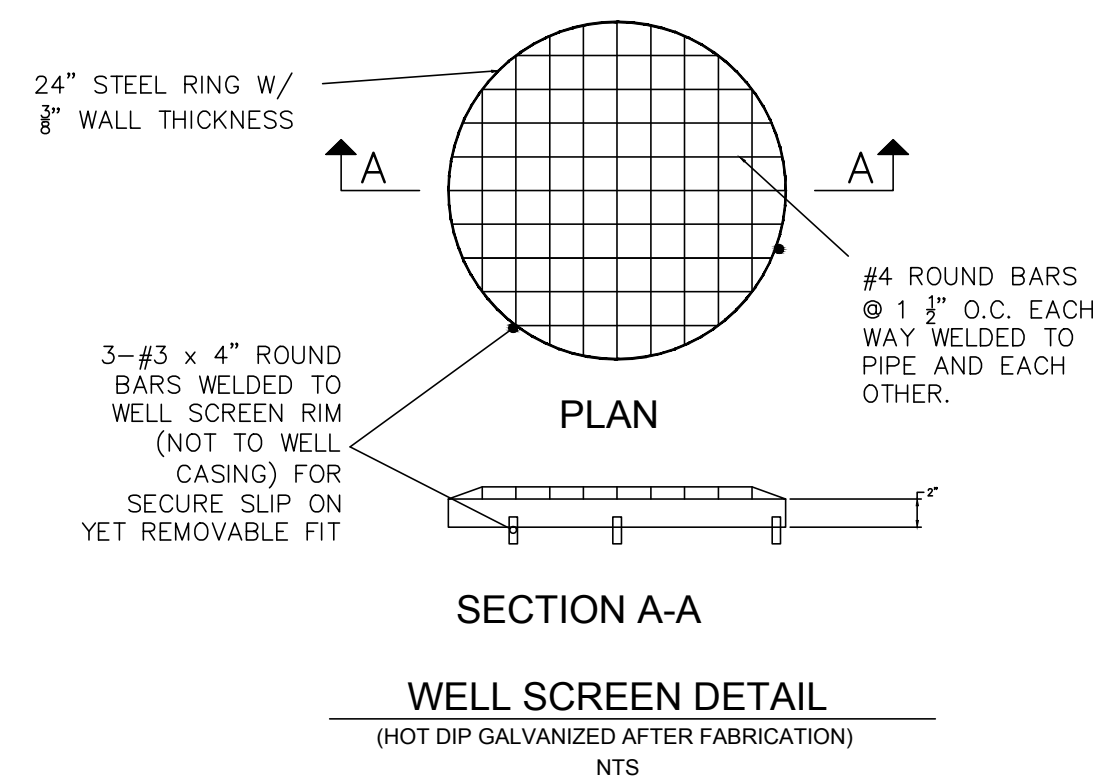
NOTES

- USP POLLUTION RETARDANT BASINS: BAFFLE TYPE, LARGE RECTANGULAR TYPE "C" STRUCTURE W/ TOP SLAB INNER DIMENSION IS 5' X 10'.
- 36" OPENING WILL REQUIRE USF 667 CR-OD.
- 25" OPENING WILL REQUIRE TYPE "A" MANHOLE FRAME AND COVER.
- NO WELDS ARE ALLOWED ON THE TOP 15 FEET OF THE WELL CASING; DEPTH OF WELL TO BE TO THE DEPTH OF THE DESIGN DEVELOPMENT WELL RATE; GRATE ON WELL HEAD TO BE CORROSION RESISTANT IN A SALT WATER ENVIRONMENT.
- USE CASING CONSTRUCTED OF 0.375 INCH WALL BLACKSTEEL PIPE MEETING EXTERNAL DIAMETER SHOWN IN THE DRAWINGS.
- CAP AND SEAL THE COMPLETED DRAINAGE WELLS IMMEDIATELY FOLLOWING CONSTRUCTION AND TESTING OF THE WELLS. CAP MAY BE REMOVED SOON AFTER COORDINATING AND RECEIVING AUTHORIZATION TO USE OF THE WELLS FROM THE F.D.E.P.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE NECESSARY F.D.E.P. WELL DRILLING PERMITS AND COMPLY WITH ALL THE PROVISIONS THEREOF.
- CONTRACTOR TO PERFORM PUMPING TEST IN ACCORDANCE WITH REGULATORY CRITERIA TO DEMONSTRATE WELL CAPACITY. WELL SHOULD DEVELOP A MINIMUM DISCHARGE RATE OF 550 GPM/ FT. HEAD.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY EQUIPMENT FOR CONDUCTION THE WELL TEST. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 48 HRS. NOTICE TO THE CITY AND ENGINEER OF RECORD PRIOR TO STARTING WORK.
- CERTIFIED WELL PUMP TEST SHALL BE DELIVERED TO THE ENGINEER FOR REVIEW.
- SHOP DRAWINGS ARE REQUIRED FOR ALL STRUCTURES, FITTINGS, AND COVERS.

THE DISCHARGE ZONE FOR THE PROPOSED GRAVITY WELLS SHALL BE BELOW ANY GROUND WATER CONTAMINATION.

DEPTH OF THE GRAVITY WELL CASING SHALL MEET THE MINIMUM CASING SETTING DEPTH OF 90 FEET BLS (-79 FT NAVD) AS NOTED IN THE REASONABLE ASSURANCE REPORT DATED SEPTEMBER 10, 2015, PROVIDED BY TERRA CONSULTING GROUP, INC.

TYPICAL GRAVITY WELL STRUCTURE
N.T.S.



WELL SCREEN DETAIL
(HOT DIP GALVANIZED AFTER FABRICATION)
N.T.S.

GRAVITY WELL SCHEDULE

STRUCTURE NAME	LATITUDE	LONGITUDE	NORTHING	EASTING	INSIDE DIMENSION	RIM ELEVATION	TOP OF WELL ELEVATION	BOTTOM OF STRUCTURE	INVERT ELEVATION
GW-1.A	N25°44'24.73"	W80°15'12.89"	511963.0536	901869.2358	5'x10'	12.50'	4.90'	1.40'	7.00'(N) 5.40'(S)
GW-1.B	N25°44'25.70"	W80°15'09.39"	512062.6720	902188.4581	5'x10'	12.50'	6.00'	2.50'	7.50'(E) 6.50'(W)
GW-2.A	N25°44'24.24"	W80°15'14.60"	511912.6440	901713.3875	5'x10'	13.10'	5.20'	1.70'	5.70'(S) 6.30'(E)
GW-2.B	N25°44'22.03"	W80°15'14.47"	511689.1034	901726.3657	5'x10'	12.00'	5.50'	2.00'	6.00'(N) 6.00'(S)
GW-3.A	N25°44'20.03"	W80°15'12.03"	511488.9987	901950.5261	5'x10'	12.30'	4.70'	1.20'	5.60'(N) 5.20'(E)
GW-3.B	N25°44'20.14"	W80°15'08.31"	511501.3753	902290.9149	5'x10'	12.00'	4.20'	1.20'	5.20'(N) 5.20'(E)

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
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PH. (305) 412-8185 FAX. (305) 412-8105 FL
CERTIFICATE OF AUTHORIZATION NO. 00004892

SUBCONSULTANT:

PROFESSIONAL SEAL:

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FL LICENSE NO. 73781
SCS ENGINEERS

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MIAMI, FL

CLIENT NAME & ADDRESS:



CITY OF MIAMI
CAPITAL IMPROVEMENTS PROGRAM
444 SW 2ND AVENUE
MIAMI, FLORIDA 33130

REV	DESCRIPTION	DATE

SCALE: AS NOTED

FILE NAME: C-6.1 TYP_DETAILS.DWG

DRAWN BY: JDR

CHECKED BY: PJD

DATE: DECEMBER 2015

DRAWING TITLE:

PAVING, GRADING AND DRAINAGE DETAILS

DRAWING NUMBER:

C-6.3

SHEET 13 of 17

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PROFESSIONAL SEAL:

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 SCS ENGINEERS

PROJECT NUMBER: 09213010.43

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 2795 SW 37 AVE
 MIAMI, FL

CLIENT NAME & ADDRESS:



CITY OF MIAMI
 CAPITAL IMPROVEMENTS PROGRAM
 444 SW 2ND AVENUE
 MIAMI, FLORIDA 33130

REV	DESCRIPTION	DATE

SCALE: AS NOTED

FILE NAME: C-7.0 SECTIONS.DWG

DRAWN BY: JDR

CHECKED BY: PJD

DATE: DECEMBER 2015

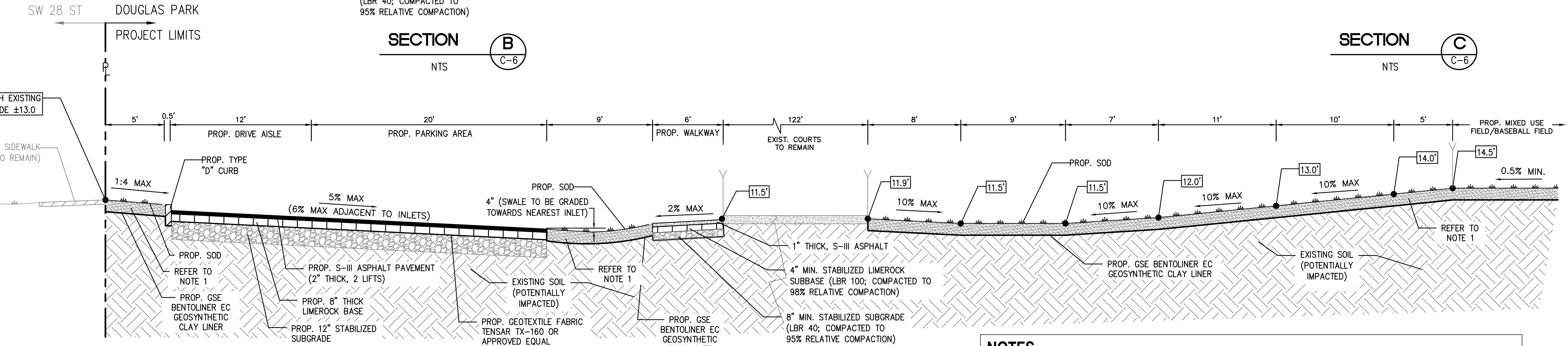
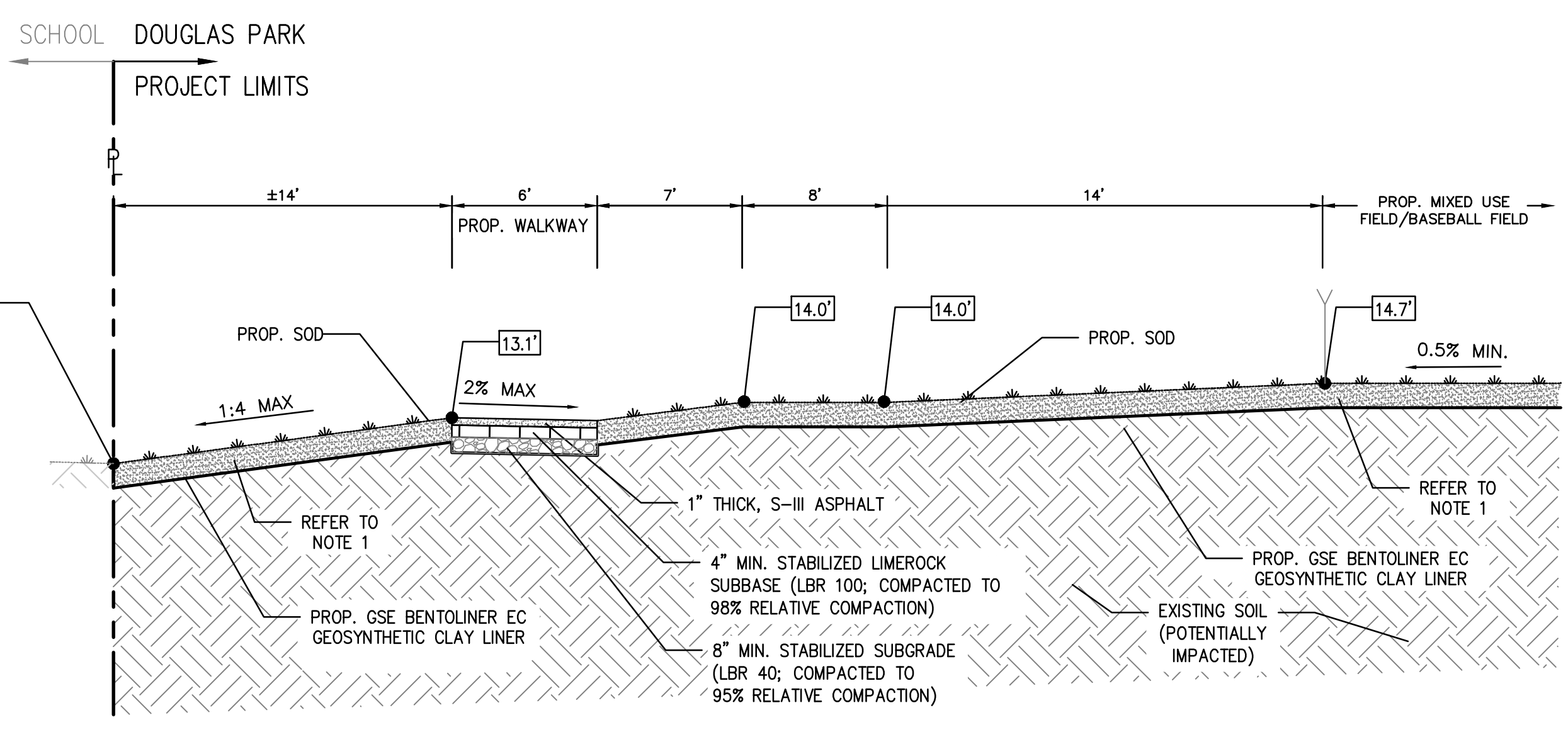
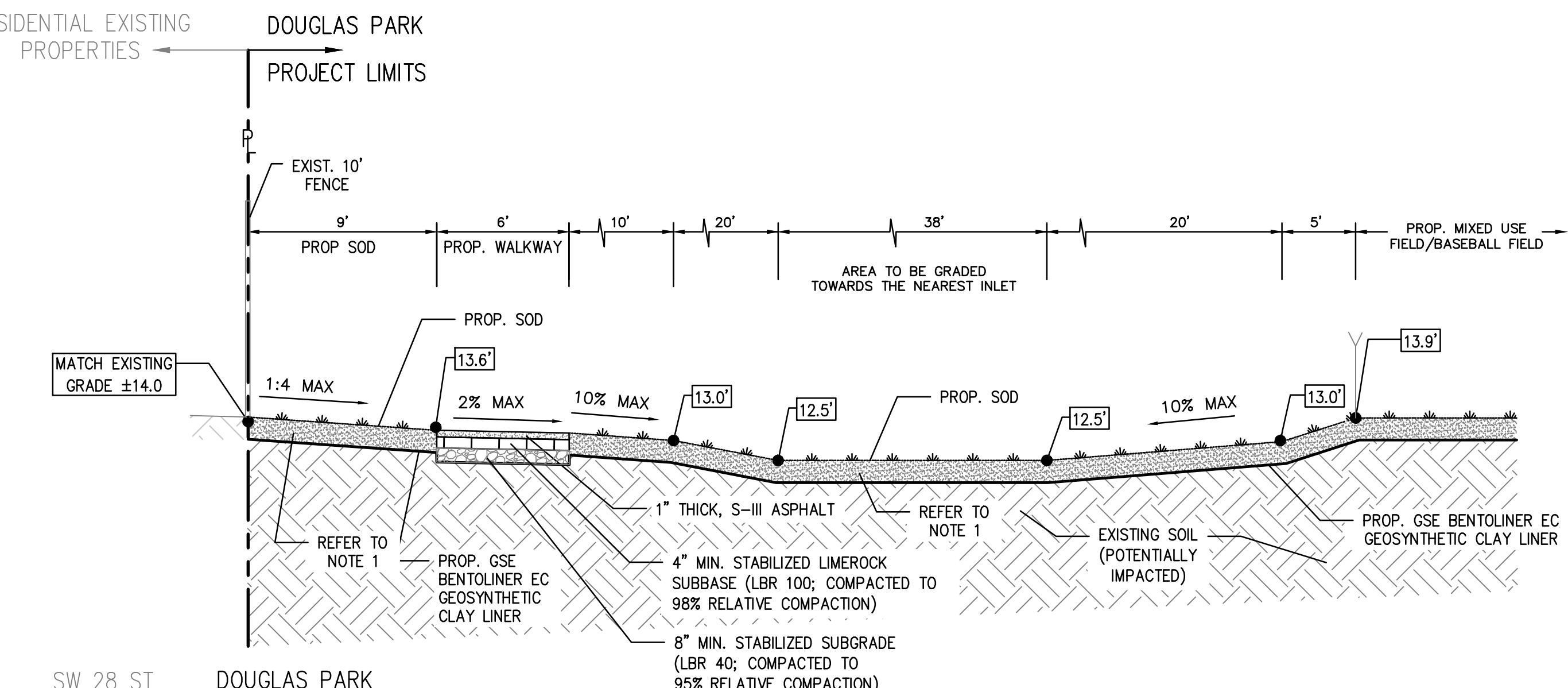
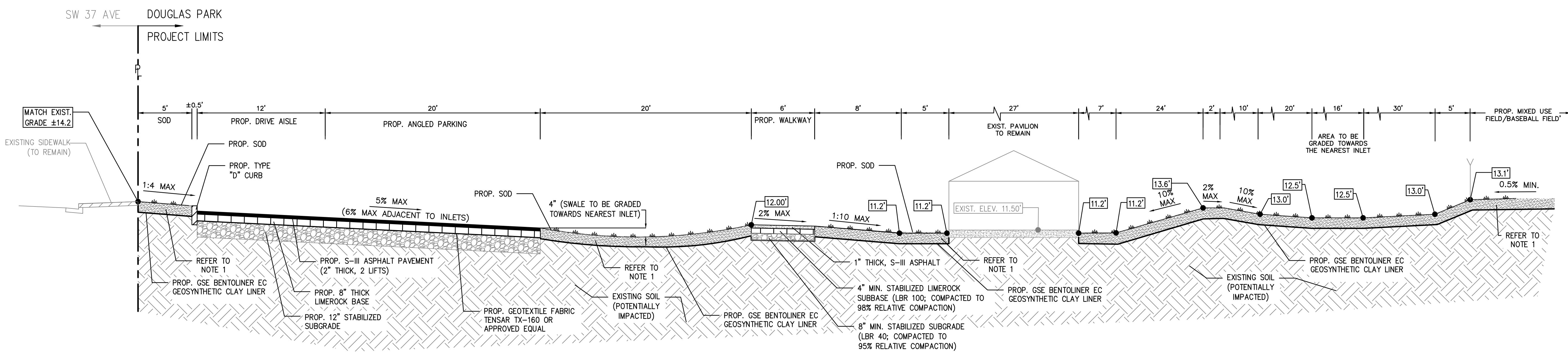
DRAWING TITLE:

SECTIONS

DRAWING NUMBER:

C-7.0

SHEET 14 of 17



- NOTES**
- FOR FINAL MATERIAL AND COVER REFER TO ENGINEERING CONTROL PLAN SHEET C-5.
 - CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
 - ELEVATIONS SHOWN ARE SUBJECT TO SPOT ELEVATIONS PER SECTION SHOWN. CONTRACTOR TO REFER TO PAVING, GRADING, AND DRAINAGE PLAN FOR PROPOSED FINAL ELEVATIONS THROUGHOUT THE PROJECT SITE.
 - INSTALLATION AND ANCHORING OF THE GCL AND GEOTEXTILE FABRIC SHALL BE PERFORMED BY A MANUFACTURER CERTIFIED CONTRACTOR OR SUBCONTRACTOR IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS.
 - SITE PREPARATION AND GRADING SHALL BE PERFORMED AT PAVEMENT AREAS, PLAYGROUND, OUT DOOR GYM, BLEACHER PADS, WALKWAYS, PARKING LOT AND BASEBALL / MIXED USED FIELD AS SPECIFIED UNDER THE RECOMMENDATIONS NOTED IN THE GEOTECHNICAL REPORT PROVIDED BY NV5 TITLED "GEOTECHNICAL STUDY - PROPOSED DOUGLAS PARK IMPROVEMENTS, 2795 SW 37TH AVENUE" AND DATED DECEMBER 17, 2015. CONTRACTOR IS TO HAVE THIS REPORT ON-SITE AT ALL TIMES DURING CONSTRUCTION.

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SUBCONSULTANT:

PROFESSIONAL SEAL:

PETER J DUENO, P.E.
 FL LICENSE NO. 73781
 SCS ENGINEERS

PROJECT NUMBER: 09213010.43

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DOUGLAS PARK
 CORRECTIVE ACTION PLAN
 2795 SW 37 AVENUE
 MIAMI, FL

CLIENT NAME & ADDRESS:



CITY OF MIAMI
 CAPITAL IMPROVEMENTS PROGRAM
 444 SW 2ND AVENUE
 MIAMI, FLORIDA 33130

REV	DESCRIPTION	DATE

SCALE: AS NOTED

FILE NAME: C-7.0 SECTIONS.DWG

DRAWN BY: JDR

CHECKED BY: PJD

DATE: DECEMBER 2015

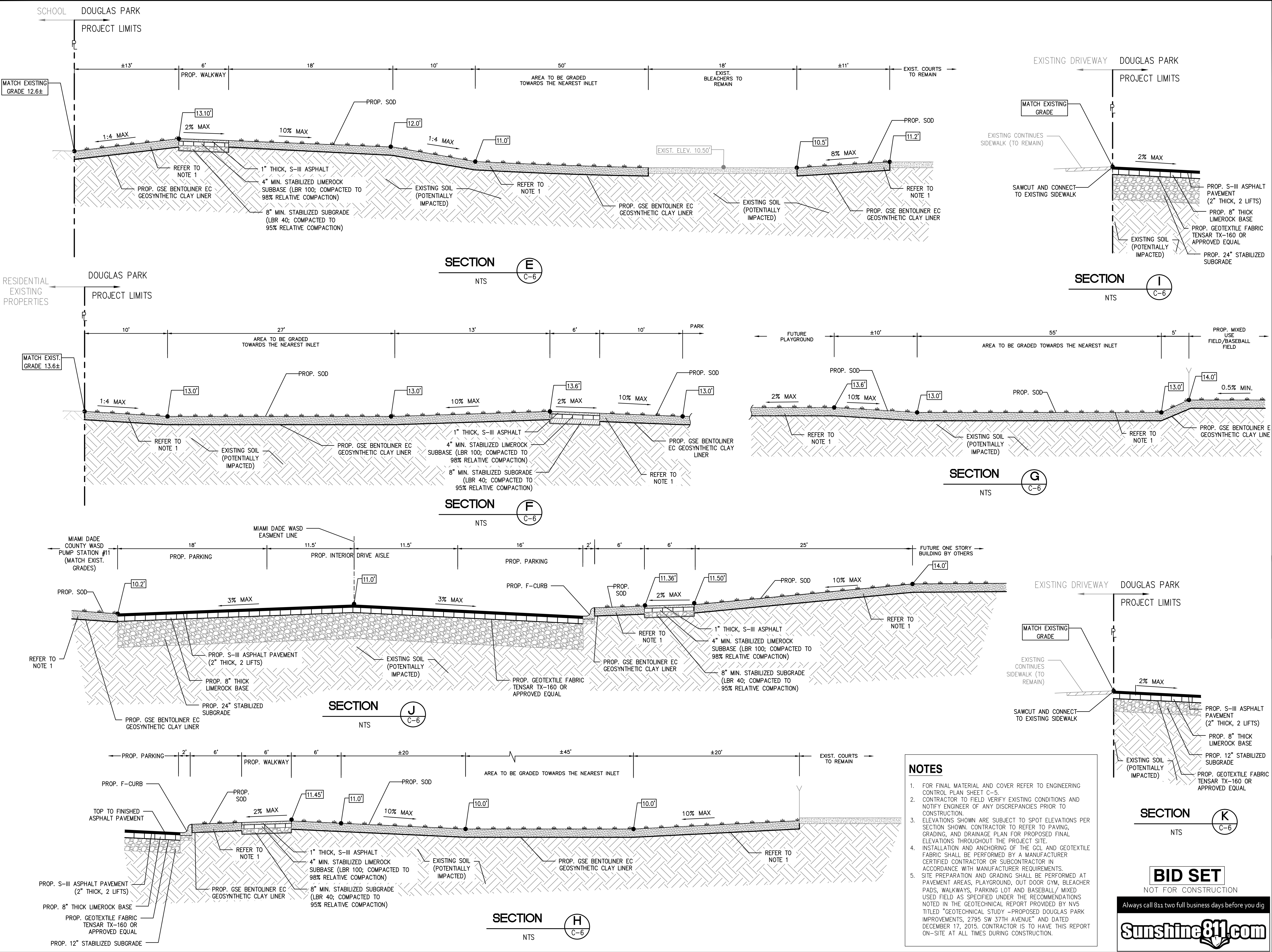
DRAWING TITLE:

SECTIONS

DRAWING NUMBER:

C-7.1

SHEET 15 of 17



NOTES

- FOR FINAL MATERIAL AND COVER REFER TO ENGINEERING CONTROL PLAN SHEET C-5.
- CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
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- INSTALLATION AND ANCHORING OF THE GCL AND GEOTEXTILE FABRIC SHALL BE PERFORMED BY A MANUFACTURER CERTIFIED CONTRACTOR OR SUBCONTRACTOR IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS.
- SITE PREPARATION AND GRADING SHALL BE PERFORMED AT PAVEMENT AREAS, PLAYGROUND, OUT DOOR GYM, BLEACHER PADS, WALKWAYS, PARKING LOT AND BASEBALL/ MIXED USED FIELD AS SPECIFIED UNDER THE RECOMMENDATIONS NOTED IN THE GEOTECHNICAL REPORT PROVIDED BY NVS TITLED "GEOTECHNICAL STUDY - PROPOSED DOUGLAS PARK IMPROVEMENTS, 2795 SW 37TH AVENUE" AND DATED DECEMBER 17, 2015. CONTRACTOR IS TO HAVE THIS REPORT ON-SITE AT ALL TIMES DURING CONSTRUCTION.

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SCALE IN FEET

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS, INC.
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PH. (305) 412-8185 FAX. (305) 412-8105 FL
CERTIFICATE OF AUTHORIZATION NO. 00004892

GENERAL NOTES:

THE CONTRACTOR SHALL COMPLY WITH ALL TERMS AND CONDITIONS OF THE U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA) NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT AND THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) NPDES PERMIT. IN PARTICULAR, SEDIMENT AND EROSION CONTROLS AND STORM WATER MANAGEMENT MEASURES SHALL BE STRICTLY FOLLOWED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION, SEDIMENTATION AND STORM WATER MANAGEMENT MEASURES FOR THE DURATION OF THE PROJECT. ONCE THE PROJECT HAS BEEN COMPLETED, THE CONTRACTOR SHALL REMOVE ALL TEMPORARY STORM WATER MANAGEMENT MEASURES AND SHALL DISPOSE OF THEM ACCORDING TO CODE.

EROSION CONTROL AND GRASSING/SODDING NOTES:

1. THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN EROSION CONTROL MEASURES AS NECESSARY TO COMPLY WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS AND COMPLY WITH STATE WATER QUALITY CRITERIA FOR STORMWATER DISCHARGE. EROSION CONTROL MEASURES INCLUDE BUT ARE NOT LIMITED TO TURBIDITY SCREENS, MULCHING, HAY BALES, AND SILT FENCE. IF A WATER QUALITY VIOLATION OCCURS, THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ALL DAMAGE AND ALL COSTS WHICH MAY RESULT INCLUDING LEGAL FEES, CONSTRUCTION COSTS, AND FINES.
2. DISTURBED AREAS SHALL BE SEEDED/GRASSED, FERTILIZED, MULCHED, AND MAINTAINED IN ACCORDANCE WITH CITY, COUNTY, STATE, AND FEDERAL REQUIREMENTS UNTIL A PERMANENT VEGETATIVE COVER IS ESTABLISHED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING THE NPDES FINAL STABILIZATION REQUIREMENTS.
3. EROSION CONTROL MEASURES SHALL BE MAINTAINED FOR THE ENTIRE DURATION OF THE PROJECT OR UNTIL SODDING AND/OR GRASS IS ESTABLISHED.
4. EROSION CONTROL MEASURES SHALL BE PLACED TO CONTAIN ALL POINTS OF DISCHARGE TO SURFACE WATERS OR WETLANDS INCLUDING CURB INLETS, DITCH BOTTOM INLETS, DITCHES, AND DOWNSTREAM PORTIONS OF STREAMS AND TIDAL WATERS ADJACENT TO CONSTRUCTION.
5. 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT A "NOTICE OF INTENT" TO FDEP IN ACCORDANCE WITH NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM RULES AND REGULATIONS.
6. THE CONTRACTOR SHALL WRAP STORM GRATES IN FILTER FABRIC TO PREVENT SEDIMENTATION OF THE STORM SEWER SYSTEM. CONTRACTOR SHALL MAINTAIN THE FILTER FABRIC UNTIL THE ASPHALT/CONCRETE PAVEMENT IS PLACED.
7. THE SITE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABILIZED.
8. SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
9. CONTROL MEASURES IMPLEMENTED ON SITE SHALL COMPLY WITH FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) 2015 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL AND FDEP FLORIDA STORMWATER EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL.

EROSION AND SEDIMENTATION CONTROLS

1. CONTRACTOR SHALL INSTALL A TYPE III SILT FENCE, AS PER FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL AROUND THE LIMITS OF CONSTRUCTION PRIOR TO ANY DEMOLITION, FILLING OR GRADING OF ANY PORTIONS OF THE SITE.
2. A GRAVEL ACCESS ROAD SHALL BE CONSTRUCTED TO MINIMIZE THE EFFECTS OF TRUCK TRAFFIC AND SEDIMENTATION TRACKING BOTH ON AND OFF THE SITE.
3. TOP OF SOIL PILES AND DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR AT LEAST 21 DAYS SHALL BE STABILIZED WITH SEED AND MULCH NO LATER THAN 14 DAYS FROM THE LAST CONSTRUCTION ACTIVITY IN THAT AREA.
4. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY PERMANENTLY CEASES SHALL BE STABILIZED WITH PERMANENT SEED, SOD AND PLANTINGS NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY.

OTHER CONTROLS

1. DUMP TRUCKS IMPORTING FILL MATERIALS TO THE SITE SHALL COVER THEIR LOADS WITH A TARPULIN TO AVOID UNNECESSARY GENERATION OF DUST.
2. ALL HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF AS PER LOCAL AND/OR STATE REGULATIONS OR AS RECOMMENDED BY THE MANUFACTURER. SITE PERSONNEL SHALL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.
3. A STABILIZED CONSTRUCTION ENTRANCE/EXIT HAS BEEN PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREET ADJACENT TO THE SITE ENTRANCE SHALL BE SWEEPED DAILY TO REMOVE ANY EXCESS OF MUD, DIRT, OR ROCK TRACKED FROM THE SITE.
4. PROTECTIVE BARRIERS WILL BE INSTALLED AT THE PERIMETER OF PRESERVED VEGETATION AT THE COMMENCEMENT OF ANY SITE ACTIVITIES AND WILL REMAIN IN PLACE UNTIL COMPLETION OF CONSTRUCTION. TEMPORARY SIGNS IDENTIFYING THE PRESERVE SHALL BE PLACED AROUND THE PERIMETER DURING CONSTRUCTION.

MAINTENANCE AND INSPECTION PROCEDURES

1. THE GENERAL CONTRACTOR'S SITE SUPERINTENDENT SHALL SELECT THREE INDIVIDUALS WHO WILL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, AND FILING OUT THE INSPECTION MAINTENANCE REPORT. PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES SHALL RECEIVE PROPER TRAINING IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING EROSION AND SEDIMENT CONTROLS USED ON SITE IN GOOD WORKING ORDER.
2. ALL EROSION AND SEDIMENTATION CONTROLS SHALL BE INSPECTED EVERY 7 DAYS OR WITHIN 24 HOURS OF A STORM OF 0.5 INCHES OR MORE IN DEPTH. ALL CONTROLS MUST BE IN GOOD OPERATING CONDITION UNTIL THE AREA THEY PROTECT HAS BEEN COMPLETELY STABILIZED AND THE CONSTRUCTION IS COMPLETED.
3. BUILT UP SEDIMENT WILL BE REMOVED FROM THE SILT FENCE WHEN IT HAS REACHED ONE THIRD OF THE HEIGHT OF THE FENCE. SILT FENCE SHALL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, IF FABRIC IS SECURELY ATTACHED TO THE FENCE POST, AND IF FENCE POST IS FIRMLY IN THE GROUND.
5. TEMPORARY AND PERMANENT SEEDING AND PLANTING SHALL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
6. THE INSPECTOR SHALL RECORD ANY DAMAGES OR DEFICIENCIES IN THE CONTROL MEASURES ON AN INSPECTION REPORT FORM PROVIDED FOR THIS PURPOSE. THESE REPORTS SHALL DOCUMENT THE INSPECTION OF ALL POLLUTION PREVENTION MEASURES AND SHALL ALSO BE USED TO REQUEST MAINTENANCE AND REPAIR. THE CONTRACTOR SHALL CORRECT DAMAGE OR PROVIDE MAINTENANCE AS RECOMMENDED BY REPORTS AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN 7 DAYS AFTER THE INSPECTION. FAILURE TO DO SO SHALL BE REPORTED TO THE FDEP.

SEQUENCE OF MAJOR ACTIVITIES

1. INSTALL TYPE III SILT FENCE AT BOUNDARIES OF PROPOSED CONSTRUCTION AND AROUND EXISTING DITCH BOTTOM INLETS ON SITE.
2. INSTALL STABILIZED CONSTRUCTION ENTRANCE/EXIT WITH DECONTAMINATION WASH-WATER CONTAINER SYSTEM.
3. COMMENCE SITE CONSTRUCTION ACTIVITIES.
4. AS PROPOSED INLETS ARE CONSTRUCTED, INSTALL APPROPRIATE INLET PROTECTION AROUND EACH.
5. INSTALL TEMPORARY SEED AND MULCH IN AREAS WHERE CONSTRUCTION TEMPORARILY CEASES FOR AT LEAST 21 DAYS, NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITIES IN THAT AREA.
6. INSTALL PERMANENT SEEDING, SOD AND PLANTING IN AREAS WHERE CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITIES.
7. REMOVE ACCUMULATED SEDIMENT.
8. REMOVE TEMPORARY POLLUTION PREVENTION MEASURES AFTER ALL CONSTRUCTION ON SITE HAS BEEN COMPLETED AND DISPOSE OF MATERIALS ACCORDING TO APPLICABLE FDEP REGULATIONS AND/OR LOCAL GOVERNMENTAL CODES, ETC.

APPROXIMATE AREA INFORMATION

TOTAL SITE AREA = 49.47 ACRES
AREA TO BE DISTURBED = 48.64 ACRES

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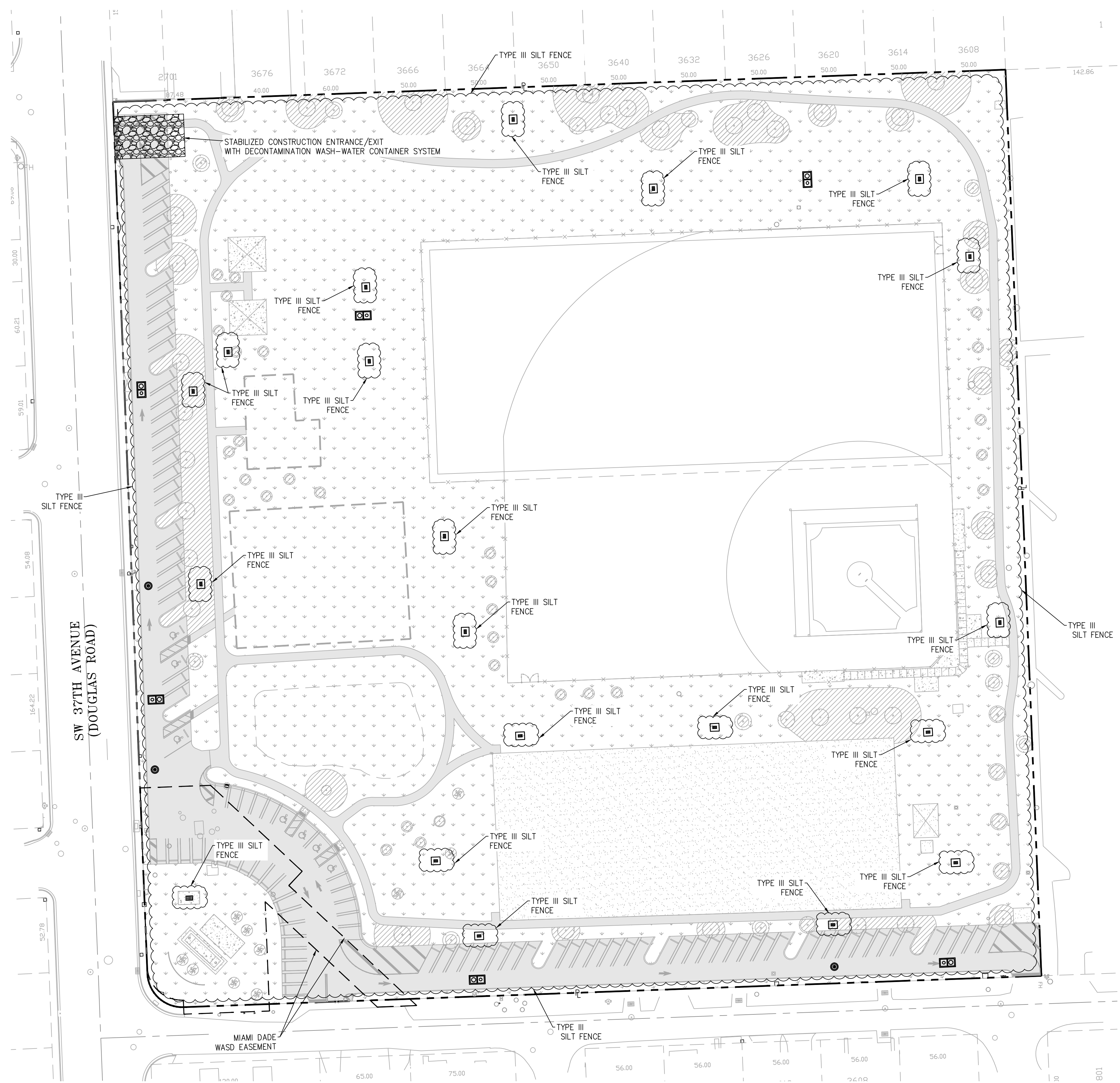
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DRAWING NUMBER:

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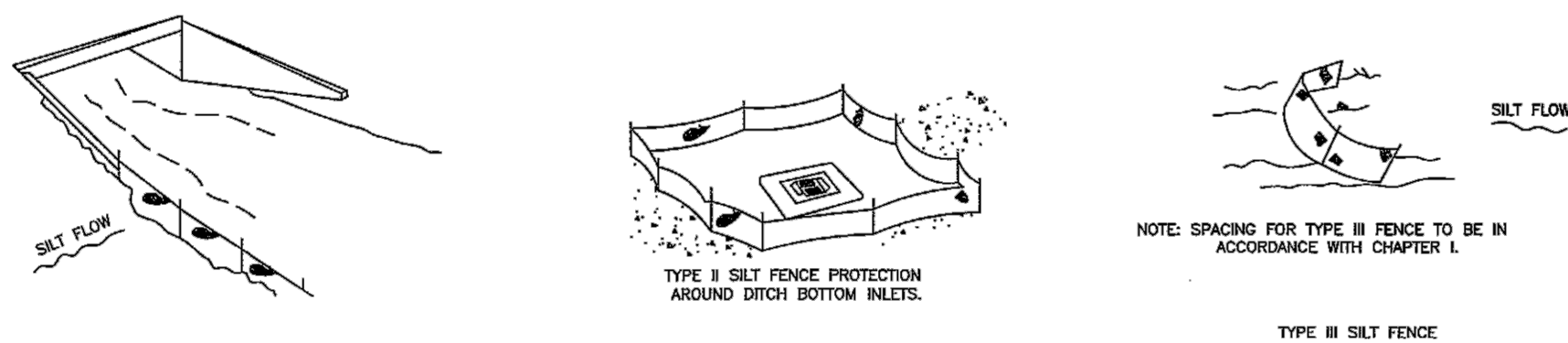
SHEET **16** of **17**

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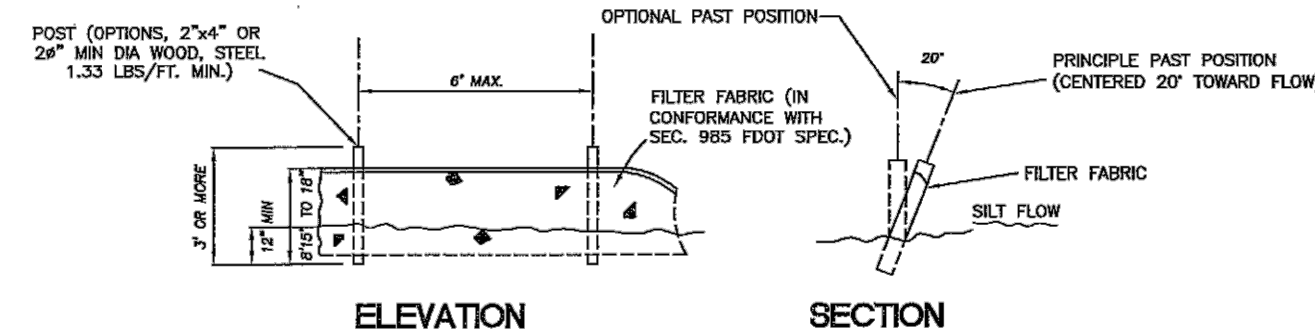
LEGEND:

- STABILIZED CONSTRUCTION ENTRANCE/EXIT
- CENTER LINE
- PROPERTY LINE
- TYPE III SILT FENCE BARRIER



DO NOT DISPLAY IN A SCANNER THAT SILT FENCES WILL ACT AS A DOWN ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND HUMINTY BARRIERS USED OF PERMANENT BODIES OF WATER.

SILT FENCE APPLICATIONS



NOTE: SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED SILT FENCE (L/F)

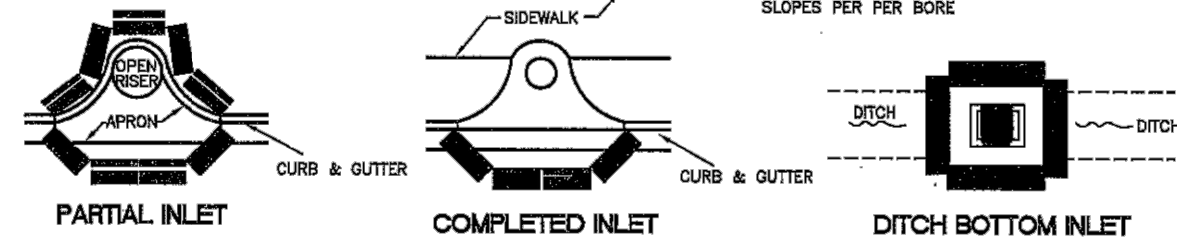
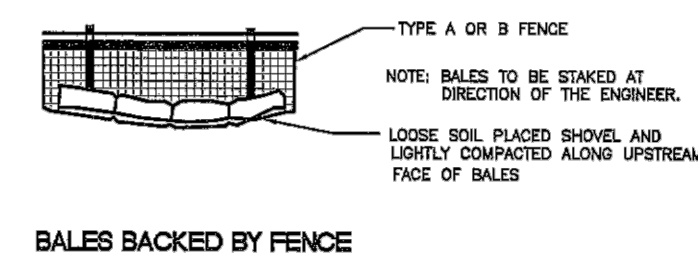
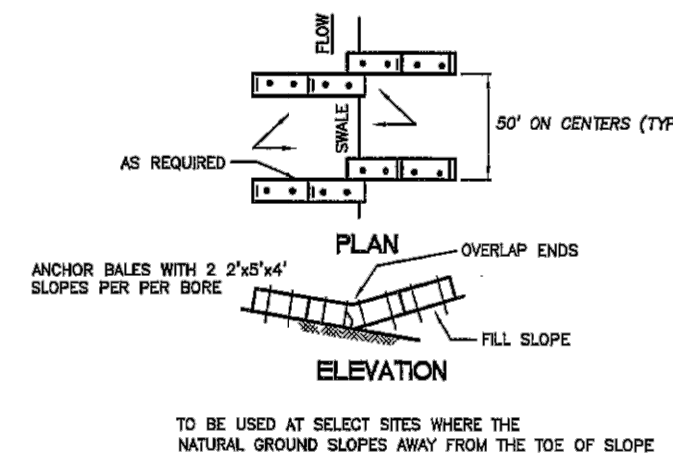
TYPE III SILT FENCE

INFORMATION ADAPTED FROM THE FLORIDA DEPARTMENT OF TRANSPORTATIONS STATE DRAINAGE MANUAL.

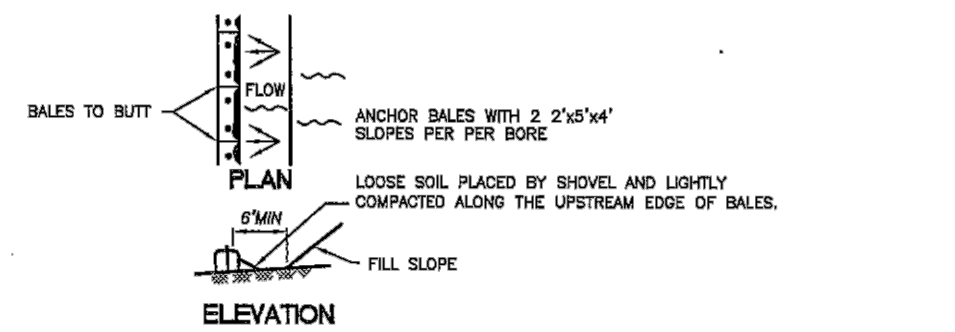
EROSION AND SEDIMENT CONTROL FOR CONSTRUCTION SITES

EXHIBIT 1

SCALE: N.T.S.
REFER TO DEPARTMENT OF PUBLIC WORKS
CITY OF MIAMI, FLORIDA
STANDARD DETAIL MISC. 35-89-6



PROTECTION AROUND INLETS OR SIMILAR STRUCTURES



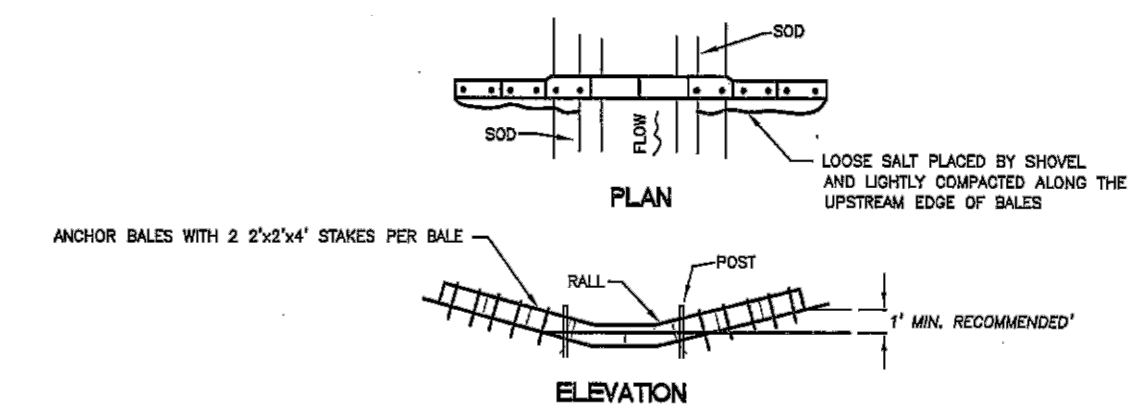
BARRIER FOR FILL SLOPE

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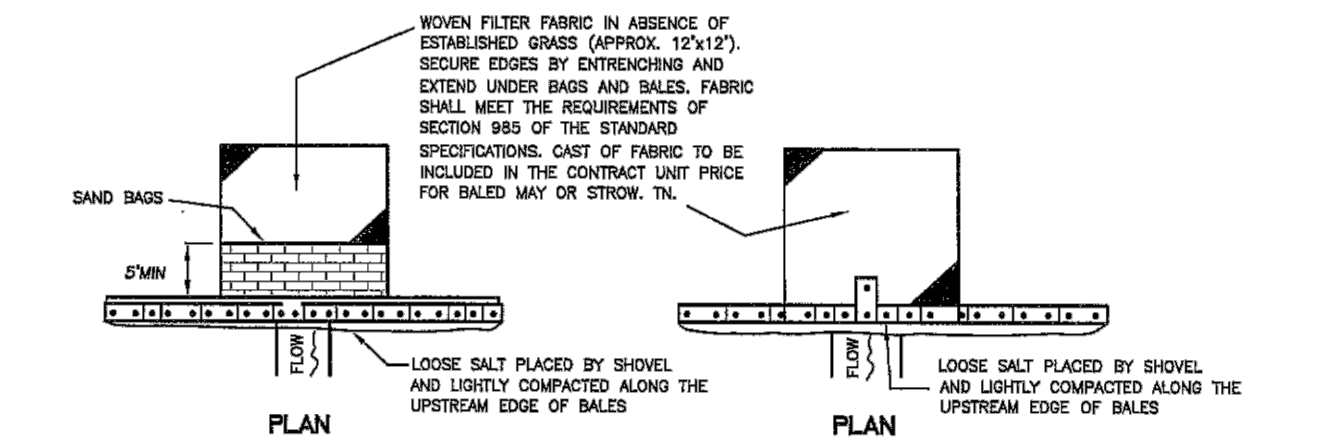
EROSION AND SEDIMENT CONTROL FOR CONSTRUCTION SITES

EXHIBIT 2

SCALE: N.T.S.
REFER TO DEPARTMENT OF PUBLIC WORKS
CITY OF MIAMI, FLORIDA
STANDARD DETAIL MISC. 35-89-6



BARRIER FOR PAVED DITCHES



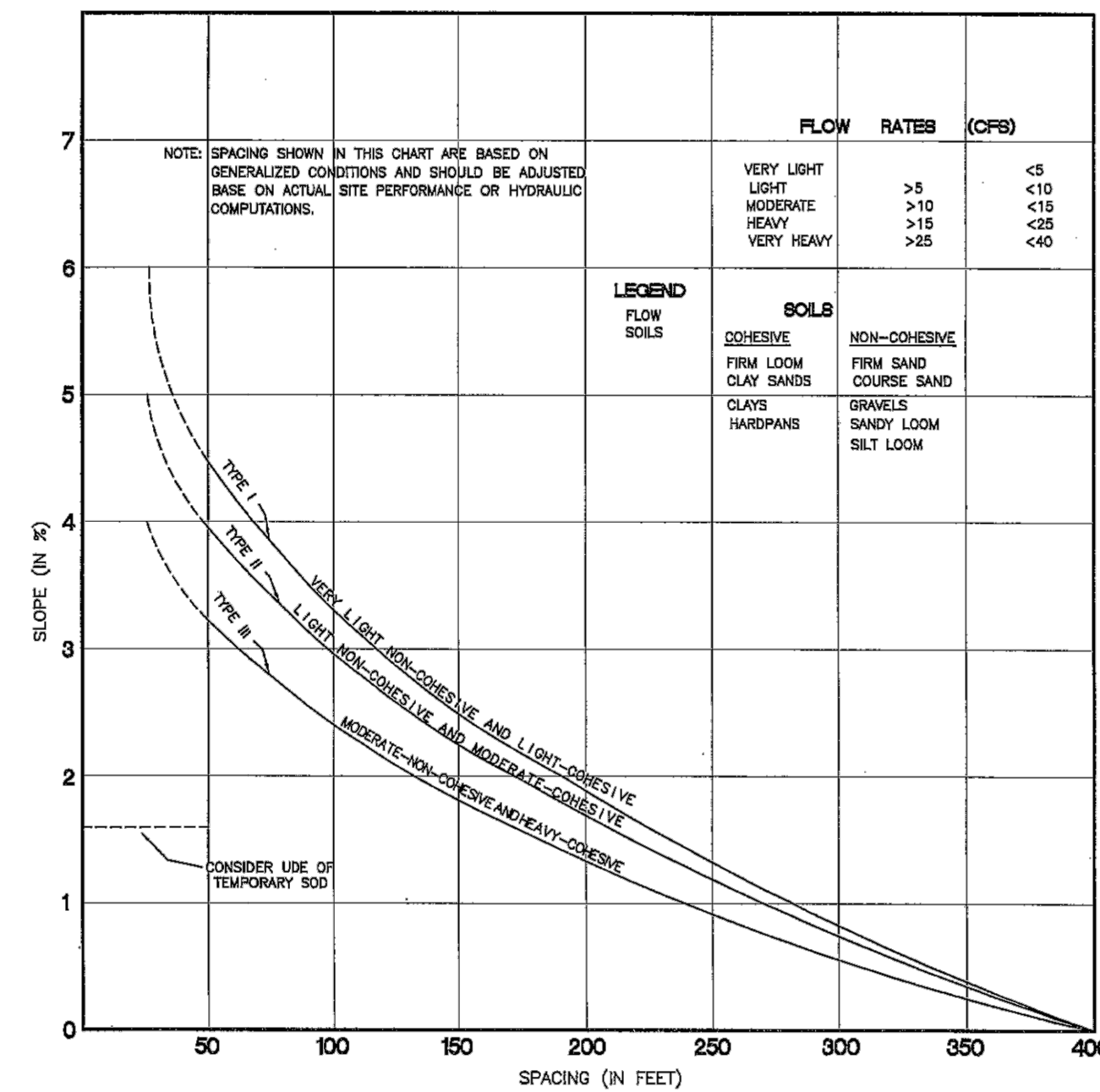
BARRIER FOR UNPAVED DITCHES

INFORMATION ADAPTED FROM THE FLORIDA DEPARTMENT OF TRANSPORTATIONS STATE DRAINAGE MANUAL.

EROSION AND SEDIMENT CONTROL FOR CONSTRUCTION SITES

EXHIBIT 3

SCALE: N.T.S.
REFER TO DEPARTMENT OF PUBLIC WORKS
CITY OF MIAMI, FLORIDA
STANDARD DETAIL MISC. 35-89-6



RECOMMENDED SPACING FOR TYPE I AND TYPE II HAY BALE BARRIERS, AND TYPE III SILT FENCES

INFORMATION ADAPTED FROM THE FLORIDA DEPARTMENT OF TRANSPORTATIONS STATE DRAINAGE MANUAL.

EROSION AND SEDIMENT CONTROL FOR CONSTRUCTION SITES

EXHIBIT 4

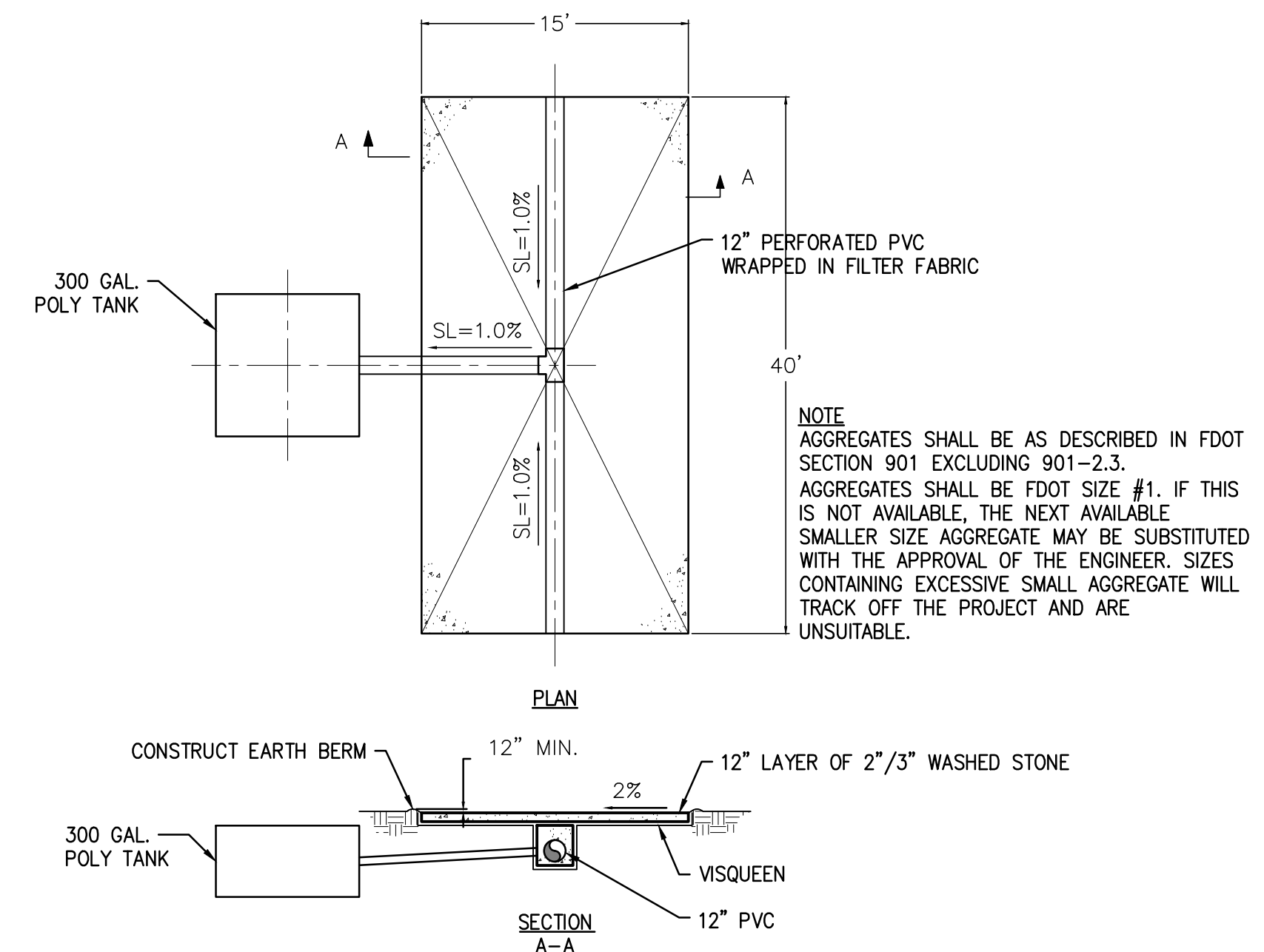
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REFER TO DEPARTMENT OF PUBLIC WORKS
CITY OF MIAMI, FLORIDA
STANDARD DETAIL MISC. 35-89-6

- 1) Tree protection and pruning shall be accomplished as detailed in special provisions, the construction plans, and or per tree ordinance 12636.
- 2) The Storm Water Pollution Prevention Plan, SWPPP, submitted to Public Works, shall describe in detail how the construction effort will be phased with regards to minimizing erosion problems by the use of temporary and permanent erosion control measures, for the various sequences of construction operations. Any modifications must be approved by the City of Miami - NPDES Section, Department of Public Works.
- 3) Environmental control features as provided in the SWPPP, are to be installed at all areas of excavation or fill for drainage system, or structure construction prior to such excavation or fill. Inlet entrances are also to be protected from siltation as detailed on sheet 2 of 4 of Misc. 35-89-6.
- 4) All environmental control features are to be maintained throughout the life of the project in accordance with N.P.D.E.S. requirements. The contractor must insure that all erosion control features function properly at all times.
- 5) All erosion and material deposits must be contained within the project limits.
- 6) Any damaged or ineffective rock bags are to be replaced with new ones. The location of rock bags installation is as mentioned in the SWPPP plans. The project engineer may specify other areas as necessary.
- 7) Ditch bottom inlets shall be protected from sediment intake until project is complete. Elevation of ground outside inlet top shall not be higher than inlet top. Rock bags shall be installed around inlet top. Completed inlets in paved areas shall also be protected with rock bags to prevent sediment intake.
- 8) Curb inlets also shall be protected from sediment intake until the project is complete. All exposed sloped material adjacent to inlet, shall be covered with erosion control matting with outer limits protected by rock bags.
- 9) Stockpiled material shall not be left in erosion prone areas unless protected by cover or rock bags.
- 10) Inspection of erosion control measures and condition of adjacent properties, shall be performed daily by the contractor's representative and the project engineer. Deficiencies shall be noted and corrected.
- 11) Any offsite sediment discharge to a municipal separate storm water system arising from the contractor's activities is not allowed. Refer to Public Works Department Bulletin No. 25.
- 12) The use of sanitary sewers, french drains, cover ditches and/ or rock drains for the disposal of wastewater is expressly prohibited. Refer to Public Works Department Bulletin No. 25.

* NPDES - National Pollution Discharge Elimination System

STROM WATER POLLUTION PREVENTION PRACTICES

SCALE: N.T.S.
REFER TO DEPARTMENT OF PUBLIC WORKS
CITY OF MIAMI, FLORIDA
STANDARD DETAIL MISC. 35-89-6



DECONTAMINATION WASH-WATER CONTAINER SYSTEM DETAIL

SCALE: N.T.S.

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CERTIFICATE OF AUTHORIZATION NO. 00004892

SUBCONSULTANT:

PROFESSIONAL SEAL:

PETER J DUENO, P.E.
FL LICENSE NO. 73781
SCS ENGINEERS

PROJECT NUMBER: 09213010.43

PROJECT NAME & ADDRESS:

DOUGLAS PARK
CORRECTIVE ACTION PLAN
2795 SW 37 AVE
MIAMI, FL

CLIENT NAME & ADDRESS:



CITY OF MIAMI
CAPITAL IMPROVEMENTS PROGRAM
444 SW 2ND AVENUE
MIAMI, FLORIDA 33130

REV	DESCRIPTION	DATE

SCALE: AS NOTED

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DRAWN BY: JDR

CHECKED BY: PJD

DATE: DECEMBER 2015

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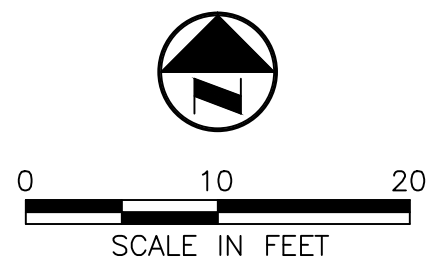
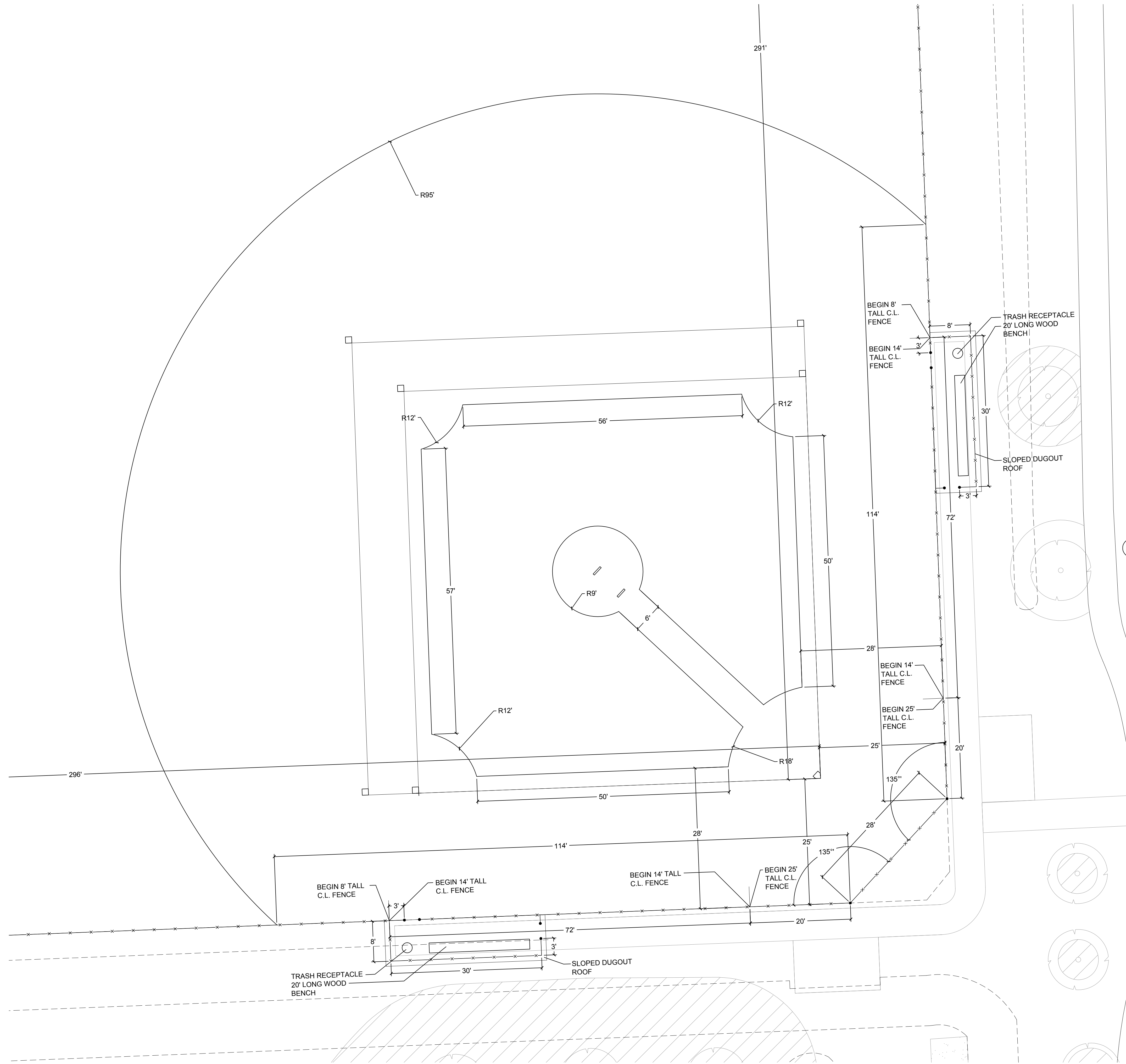
STORMWATER POLLUTION PREVENTION PLAN DETAILS

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C-8.1

SHEET 17 of 17

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NOTES:

- ALL CHAINLINK FENCE SHALL BE BLACK VINYL COATED WITH A TOP AND BOTTOM RAIL
- 20' LONG WOOD BENCH SHALL BE EMBEDDED INTO THE CONCRETE. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS.
- TRASH RECEPTACLES SHALL BE IN CONFORMANCE WITH CITY OF MIAMI STANDARDS.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR DUGOUT ROOF.

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SUBCONSULTANT:



PROFESSIONAL SEAL:

KEN GARDNER, ASLA.
 FL LICENSE NO. 1569
 ROSENBERG GARDNER DESIGN

PROJECT NUMBER: 09213010.43

PROJECT NAME & ADDRESS:

DOUGLAS PARK
 CORRECTIVE ACTION PLAN
 2795 SW 37 AVE
 MIAMI, FL

CLIENT NAME & ADDRESS:



CITY OF MIAMI
 CAPITAL IMPROVEMENTS PROGRAM
 444 SW 2ND AVENUE
 MIAMI, FLORIDA 33130

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DATE: DECEMBER, 2015

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BALLFIELD LAYOUT PLAN

DRAWING NUMBER:

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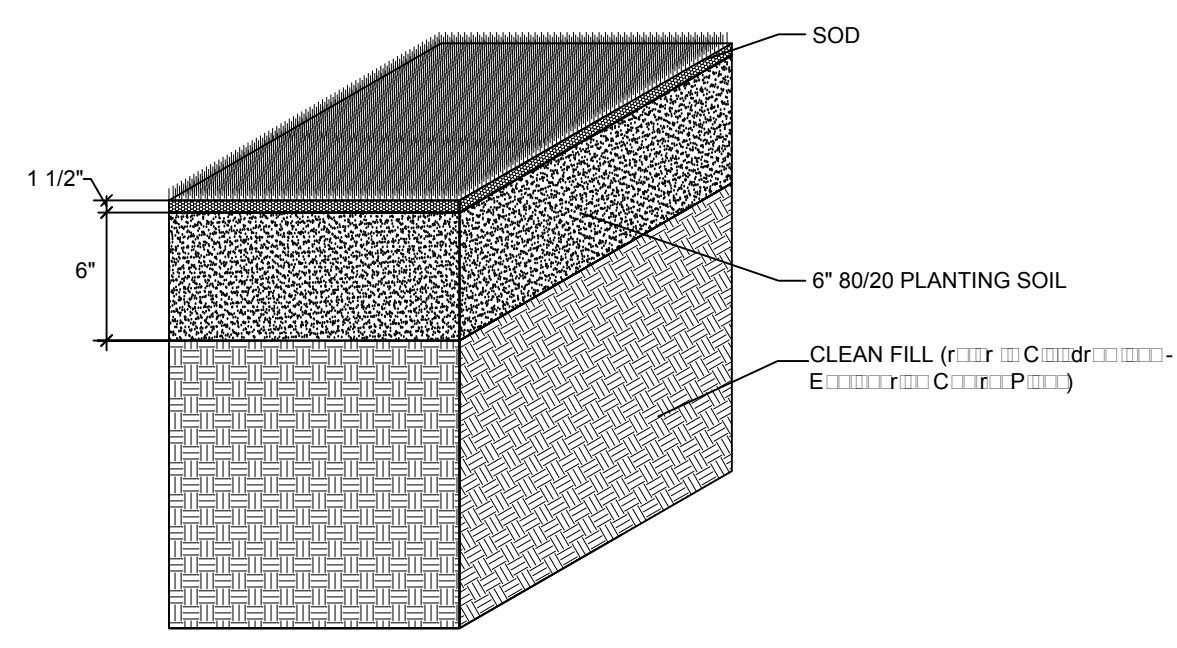
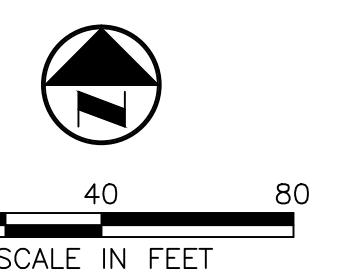
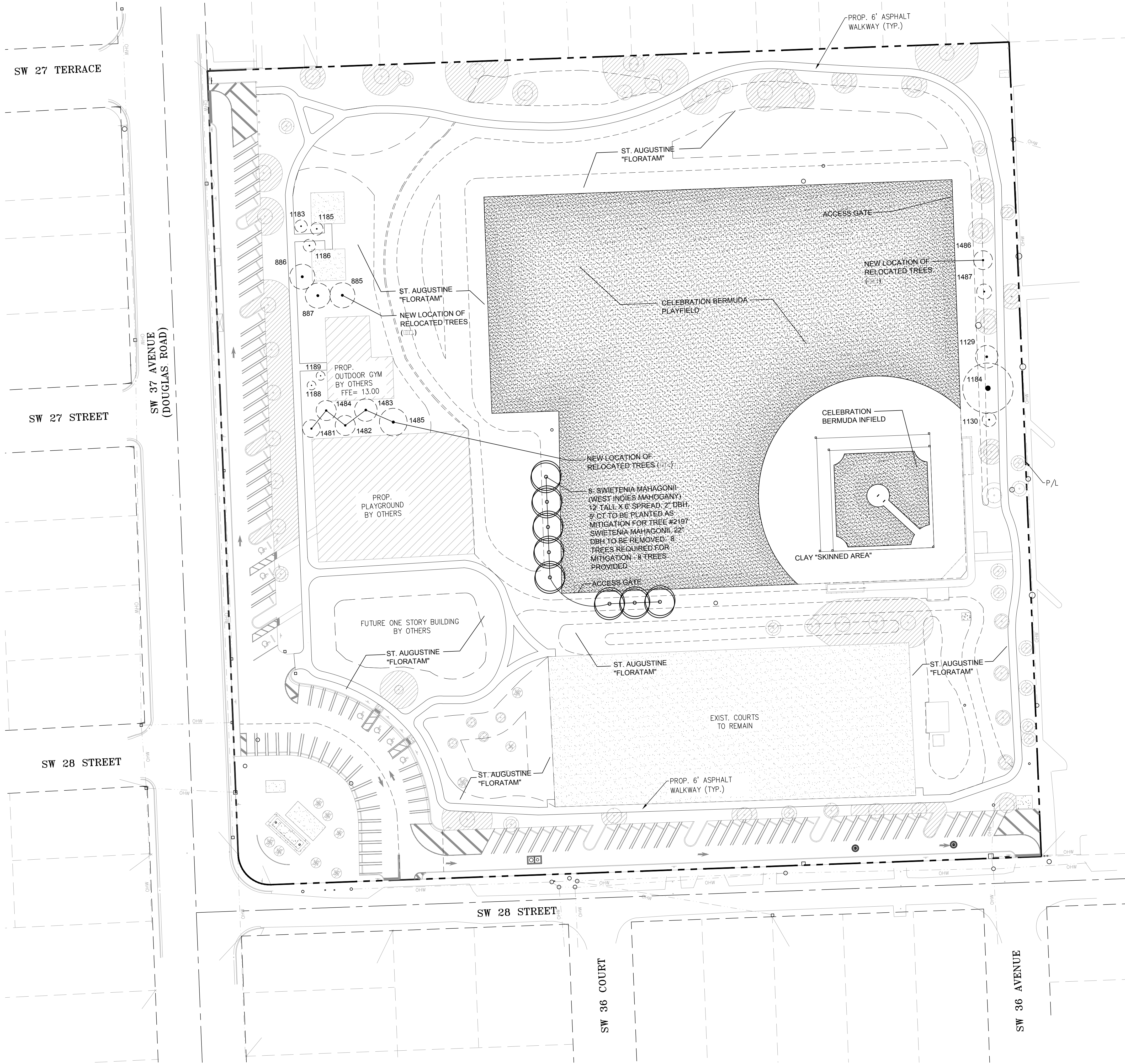
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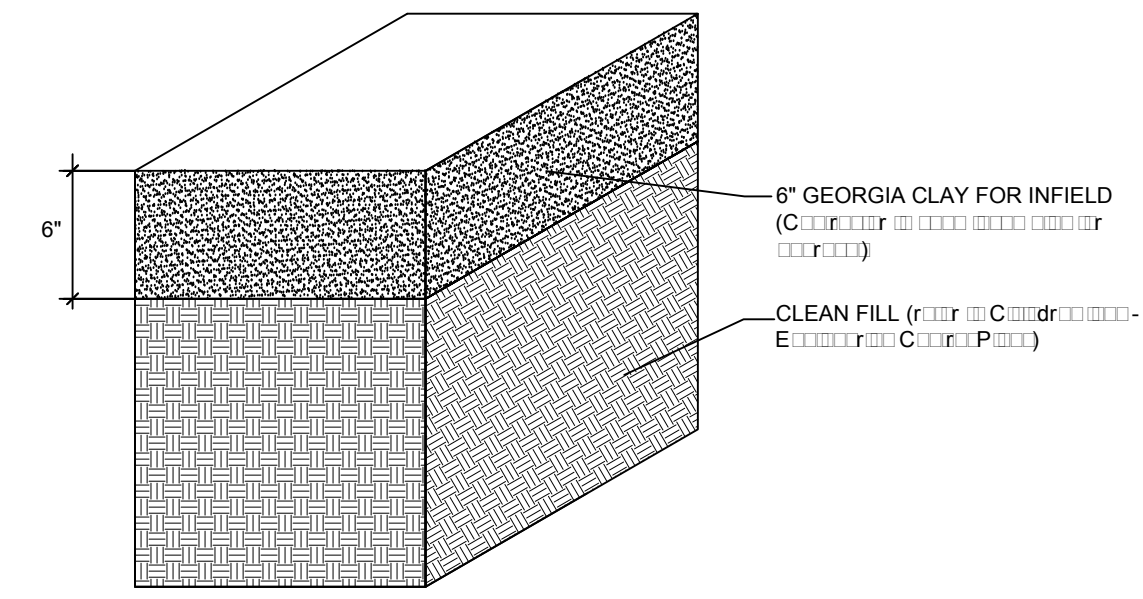


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SOIL PREPARATION IN SOD AREAS

N.T.S.



SECTION THRU CLAY INFIELD

N.T.S.

SOD TO BE USED FOR PLAYFIELD IS CELEBRATION BERMUDA. ALL CELEBRATION BERMUDA SOD SHALL BE IN ROLLS RATHER THAN PALLETS. ROLLS SHALL BE A MINIMUM OF 3' WIDE (5' IS PREFERABLE)

SOD FOR ALL OTHER AREAS OF THE PARK TO BE ST. AUGUSTINE "FLORATAM".

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 www.ROSENBERGGARDNER.com

PROFESSIONAL SEAL:

KEN GARDNER, ASLA
 FL LICENSE NO. 1569
 ROSENBERG GARDNER DESIGN

PROJECT NUMBER: 09213010.43

PROJECT NAME & ADDRESS:

DOUGLAS PARK
 CORRECTIVE ACTION PLAN
 2795 SW 37 AVE
 MIAMI, FL

CLIENT NAME & ADDRESS:


 CITY OF MIAMI
 CAPITAL IMPROVEMENTS PROGRAM
 444 SW 2ND AVENUE
 MIAMI, FLORIDA 33130

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DATE: DECEMBER, 2015

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PLANTING PLAN

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L-02

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LANDSCAPE SPECIFICATIONS
PART 1 - GENERAL

1.1 SCOPE
A. Complete site preparation, including site clearance, site grading, utility relocation, and installation of all site improvements and landscape features as shown on the plans and specified in the notes.

1.2 CONTRACTOR QUALIFICATIONS
A. Landscaping Contractor (C) shall be a Florida-licensed landscape contractor (FLGLA) or a Florida-licensed contractor (FLC) with a minimum of five (5) years experience in the State of Florida. B. Irrigation Contractor shall be a Florida-licensed irrigation contractor (FLIC) or a Florida-licensed contractor (FLC) with a minimum of five (5) years experience in the State of Florida.

1.3 INVESTIGATION OF UTILITIES
A. Prior to installation of any landscape features, the Contractor shall locate and mark all existing utilities, including but not limited to, water, gas, electrical, and telecommunications lines.

1.4 SUBSTITUTIONS
A. Obtain approval from the Architect prior to substituting any material or equipment.

1.5 PLANT SIZES
A. All plants shall be as specified in the schedule. Plants shall be minimum of 18" height for container-grown plants and minimum of 1/2" caliper for balled and burlapped plants.

1.6 PLANT QUALITY
A. All plants shall be of the highest quality and shall be grown in compliance with the Florida Department of Agriculture and Consumer Services, Florida Division of Plant Industry, "Grades and Standards for Nursery Plants" by the Division of Plant Industry, Florida Department of Agriculture and Consumer Services, Florida Division of Plant Industry.

1.7 PLANT QUANTITY
A. The Contractor shall provide the quantity of plants as specified in the schedule.

1.8 UNIT PRICES
A. The Contractor shall provide unit prices for all plants and materials as specified in the schedule.

1.9 SUBMITTALS
A. Furnish to the Architect for review and approval: 1. Schedule of Plants and Materials; 2. Fertilizer; 3. Irrigation Schedule; 4. Planting Schedule; 5. Maintenance Schedule.

1.10 CLEAN-UP / MAINTENANCE OF TRAFFIC
A. Provide a minimum 4' x 6' foot clearances at all plant locations.

1.11 MAINTENANCE PRIOR TO ACCEPTANCE
A. The Contractor shall maintain the site for a period of 12 months after completion of installation, during which time the Contractor shall be responsible for watering, fertilizing, and general maintenance of the landscape.

1.12 ACCEPTANCE OF INSTALLATION
A. The Contractor shall submit a written report of acceptance to the Architect upon completion of installation.

1.13 GUARANTEE
A. The Contractor shall warrant the plants and materials for a period of 12 months after completion of installation.

1.14 REPLACEMENT
A. The Contractor shall be responsible for the replacement of any plants or materials that die or become damaged within the warranty period.

PART 2 - MATERIALS

2.1 PLANTING SOIL
A. Planting soil shall be a minimum of 18" depth and shall be amended with a minimum of 2% fertilizer.

2.2 FERTILIZER
A. Fertilizer shall be a minimum of 10-10-10 or equivalent.

2.3 WATER
A. The Contractor shall provide a minimum of 1/2" depth of water to all plants during the warranty period.

2.4 MULCH
A. Mulch shall be a minimum of 2" depth and shall be made of wood chips or similar material.

2.5 ROOT BARRIER MATERIAL
A. Root barrier material shall be a minimum of 30 mil thickness and shall be installed around all plants.

PART 3 - INSTALLATION PROCEDURES

3.1 LAYOUT
A. The Contractor shall stake out all plant locations and shall be responsible for maintaining the stakes throughout the installation process.

3.2 HERBICIDE TREATMENT
A. The Contractor shall apply herbicide to all existing vegetation within the landscape area to prevent competition.

3.3 PLANT PIT EXCAVATION AND BACKFILLING
A. The Contractor shall excavate a minimum of 18" deep planting pits and shall backfill with a minimum of 18" of planting soil.

3.4 WATERING
A. The Contractor shall water all plants immediately after installation and shall continue to water the plants throughout the warranty period.

AMOUNT OF WATER PER APPLICATION
For 5" diameter - 5 gallons
For 6" diameter - 25 gallons
For 8" diameter - 50 gallons

FREQUENCY OF WATER
1. 2 times per week (Days 1-2)
2. 2 times per week (Days 3-4)
3. 2 times per week (Days 5-6)
4. 2 times per week (Days 7-8)

3.5 FERTILIZING
A. Add fertilizer to all planting pits at the time of installation and shall be responsible for fertilizing the plants throughout the warranty period.

3.6 MULCHING
A. Apply mulch to all planting pits and shall be responsible for maintaining the mulch throughout the warranty period.

3.7 GUYING AND BRACING
A. The Contractor shall install guying and bracing for all trees with a caliper greater than 1 1/2".

3.8 SODDING
A. Sod shall be a minimum of 1/2" thickness and shall be installed in accordance with the manufacturer's instructions.

3.9 WATER
A. The Contractor shall provide a minimum of 1/2" depth of water to all sod areas during the warranty period.

3.10 FERTILIZER
A. The Contractor shall apply fertilizer to all sod areas at the time of installation and shall be responsible for fertilizing the sod throughout the warranty period.

SODDING SPECIFICATIONS
PART 1 - GENERAL

1.01 SCOPE OF WORK
A. The Contractor shall provide sod for the entire site as shown on the plans and shall be responsible for installing and maintaining the sod throughout the warranty period.

1.02 QUALITY ASSURANCE
A. The Contractor shall provide sod that is a minimum of 1/2" thickness and shall be grown in compliance with the Florida Department of Agriculture and Consumer Services, Florida Division of Plant Industry.

1.03 CUTTING, DELIVERY AND HANDLING
A. The Contractor shall cut sod to the correct size and shall be responsible for handling the sod during transportation and installation.

PART 2 - MATERIALS

2.01 SOD
A. Sod shall be a minimum of 1/2" thickness and shall be made of a minimum of 80% Bermuda grass and 20% St. Augustine grass.

2.02 BACKFILL/PLANTING SOIL
A. Backfill soil shall be a minimum of 18" depth and shall be amended with a minimum of 2% fertilizer.

2.03 WATER
A. The Contractor shall provide a minimum of 1/2" depth of water to all sod areas during the warranty period.

2.04 FERTILIZER
A. The Contractor shall apply fertilizer to all sod areas at the time of installation and shall be responsible for fertilizing the sod throughout the warranty period.

A. The Contractor shall provide a minimum of 1/2" depth of water to all sod areas during the warranty period.

2.05 Sod shall be a minimum of 1/2" thickness and shall be made of a minimum of 80% Bermuda grass and 20% St. Augustine grass.

2.06 Sod shall be a minimum of 1/2" thickness and shall be made of a minimum of 80% Bermuda grass and 20% St. Augustine grass.

PART 3 - EXECUTION

3.01 INSPECTION
A. The Contractor shall submit a written report of inspection to the Architect upon completion of sod installation.

3.02 PREPARATION
A. The Contractor shall prepare the site for sod installation by removing all existing vegetation and by grading the site to the correct elevation.

3.03 INSTALLATION
A. The Contractor shall install sod in a staggered pattern and shall be responsible for filling all joints between sod pieces.

B. The Contractor shall water the sod immediately after installation and shall continue to water the sod throughout the warranty period.

C. The Contractor shall apply fertilizer to the sod at the time of installation and shall be responsible for fertilizing the sod throughout the warranty period.

D. The Contractor shall maintain the site for a period of 12 months after completion of sod installation, during which time the Contractor shall be responsible for watering, fertilizing, and general maintenance of the sod.

E. The Contractor shall submit a written report of acceptance to the Architect upon completion of sod installation.

F. The Contractor shall be responsible for the replacement of any sod that dies or becomes damaged within the warranty period.

G. The Contractor shall be responsible for the replacement of any sod that becomes damaged by animals or other means within the warranty period.

H. The Contractor shall be responsible for the replacement of any sod that becomes damaged by drought or other environmental factors within the warranty period.

I. The Contractor shall be responsible for the replacement of any sod that becomes damaged by disease or other environmental factors within the warranty period.

J. The Contractor shall be responsible for the replacement of any sod that becomes damaged by insects or other environmental factors within the warranty period.

K. The Contractor shall be responsible for the replacement of any sod that becomes damaged by fire or other environmental factors within the warranty period.

L. The Contractor shall be responsible for the replacement of any sod that becomes damaged by theft or other environmental factors within the warranty period.

M. The Contractor shall be responsible for the replacement of any sod that becomes damaged by vandalism or other environmental factors within the warranty period.

N. The Contractor shall be responsible for the replacement of any sod that becomes damaged by any other means within the warranty period.

O. The Contractor shall be responsible for the replacement of any sod that becomes damaged by any other means within the warranty period.

P. The Contractor shall be responsible for the replacement of any sod that becomes damaged by any other means within the warranty period.

Q. The Contractor shall be responsible for the replacement of any sod that becomes damaged by any other means within the warranty period.

R. The Contractor shall be responsible for the replacement of any sod that becomes damaged by any other means within the warranty period.

S. The Contractor shall be responsible for the replacement of any sod that becomes damaged by any other means within the warranty period.

T. The Contractor shall be responsible for the replacement of any sod that becomes damaged by any other means within the warranty period.

U. The Contractor shall be responsible for the replacement of any sod that becomes damaged by any other means within the warranty period.

V. The Contractor shall be responsible for the replacement of any sod that becomes damaged by any other means within the warranty period.

W. The Contractor shall be responsible for the replacement of any sod that becomes damaged by any other means within the warranty period.

X. The Contractor shall be responsible for the replacement of any sod that becomes damaged by any other means within the warranty period.

Y. The Contractor shall be responsible for the replacement of any sod that becomes damaged by any other means within the warranty period.

Z. The Contractor shall be responsible for the replacement of any sod that becomes damaged by any other means within the warranty period.

PLANTING & BRACING DETAIL UNDER 3 1/2" CALIPER
N.T.S.

SET ROOTBALL SO TRUNK FLARE OR TOP ROOT IS 2" ABOVE SURROUNDING GRADE.

INSTALL 2" OF MULCH OVER 3" DIAMETER CIRCLE AROUND THE TRUNK DO NOT PLACE MULCH WITHIN 3" OF THE TRUNK.

REMOVE ANY PORTION OF WIRE BASKETS ABOVE THE TOP HALF OF THE ROOTBALL. REMOVE BURLAP COVERINGS BELOW THE TOP HALF OF THE ROOTBALL. COMPLETELY REMOVE ALL SYNTHETIC ROOTBALL COVERING MATERIALS.

6" HIGH TEMPORARY RETENTION RING OF SOIL TO ASSIST IN IRRIGATION OF THE TREE. REMOVE RING 3 MONTHS AFTER INSTALLATION.

HOLES TO ACCOMMODATE PLANTS SHALL BE A MINIMUM OF THREE TIMES THE SIZE OF THE PLANT BALL.

ALL BACKFILL FOR TREES SHALL BE AS EXISTING SOIL WITH ALL ROCKS 2" OR LARGER REMOVED.

FERTILIZER SHALL BE INSTALLED AS PER THE WRITTEN SPECIFICATIONS.

Top Soil	12%
Dried Peat Sphagnum	75%
Compost	0.00%
Water	10.25%
Wet Soil	1.00%
Pine Straw	6%
Dried Peat Sphagnum	8%
Pine Mulch	77%
Nitrogen (N)	.02%
Phosphorus (P)	.07%
Potassium (K)	.07%
Water	.06%
Dried Peat Sphagnum	2.41%
Water	2.41%
Pine Straw	77%
Dried Peat Sphagnum	.02%
Pine Mulch	.02%
Nitrogen (N)	.07%
Phosphorus (P)	.07%
Potassium (K)	.07%
Water	.06%
Dried Peat Sphagnum	2.41%
Water	2.41%
Pine Straw	77%
Dried Peat Sphagnum	2.00%

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS, INC.
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PHONE: 305-896-9816 FAX: 305-896-9815 CORPORATE: 305-206-0056
WWW.ROSENBERGGARDNER.COM

KEN GARDNER, ASLA
FL LICENSE NO. 1569
ROSENBERG GARDNER DESIGN

PROJECT NUMBER: 09213010.43

PROJECT NAME & ADDRESS:

DOUGLAS PARK
CORRECTIVE ACTION PLAN
2795 SW 37 AVE
MIAMI, FL

CLIENT NAME & ADDRESS:

CITY OF MIAMI
CAPITAL IMPROVEMENTS PROGRAM
444 SW 2ND AVENUE
MIAMI, FLORIDA 33130

REV	DESCRIPTION	DATE
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SCALE: AS NOTED

FILE NAME: LA--sheets.dwg

DRAWN BY: KEG

CHECKED BY: KEG

DATE: DECEMBER, 2015

DRAWING TITLE:

LANDSCAPE SPECIFICATIONS AND TREE PLANTING DETAIL

DRAWING NUMBER:

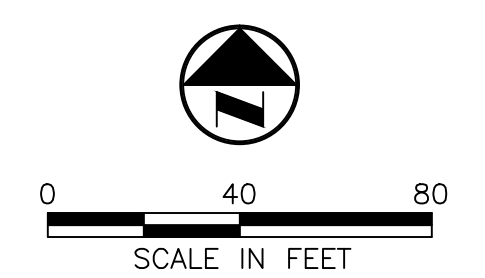
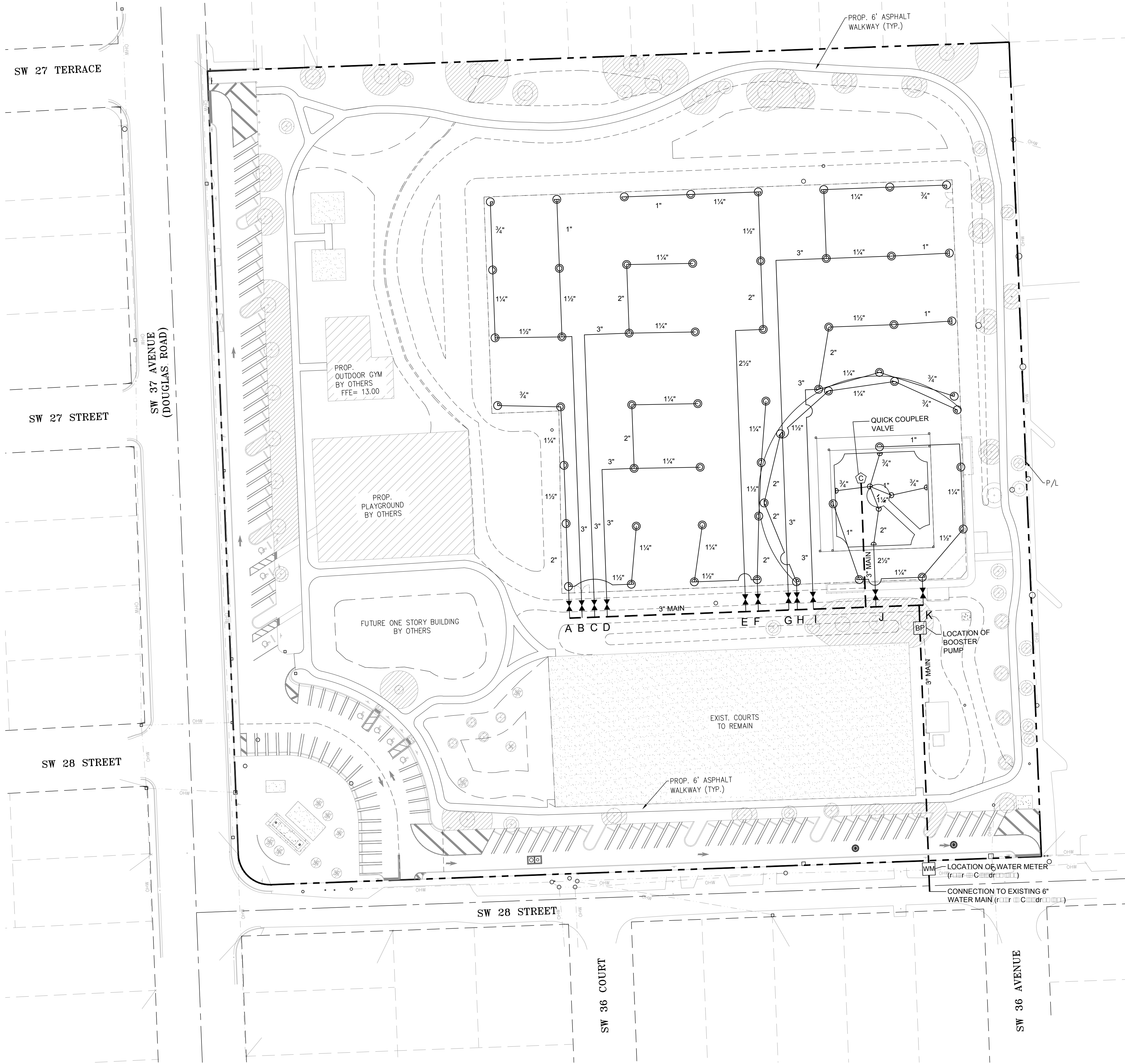
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Z:\Douglas Park\2015-12-11\LA-sheets.dwg Jan 05, 2016 - 4:07pm Layout Name: LA-04 By: Ken



IRRIGATION MATERIALS LIST

KEY	ITEM	QTY.
---	PVC	00000000
---	40 PVC	00000000
---	PVC	00000000
---	40 PVC	00000000
---	Fix PVC	00000000
M	MINI-C	1
MINI-C	MINI-C	1
R	RAINBIRD 200-PESP 2" E	11
Irr	Irr	00000000
R	RAINBIRD 5000 S	00000000
R	RAINBIRD 6504 (F)	00000000

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PROFESSIONAL SEAL:

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REV	DESCRIPTION	DATE

SCALE: AS NOTED

FILE NAME: LA-sheets.dwg

DRAWN BY: KEG

CHECKED BY: KEG

DATE: DECEMBER, 2015

DRAWING TITLE:

IRRIGATION PLAN

DRAWING NUMBER:

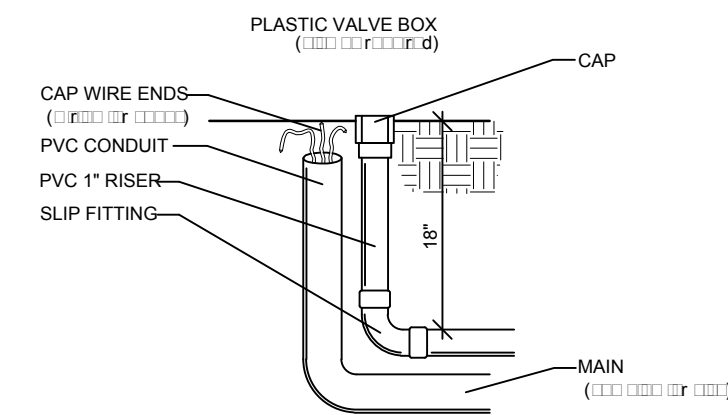
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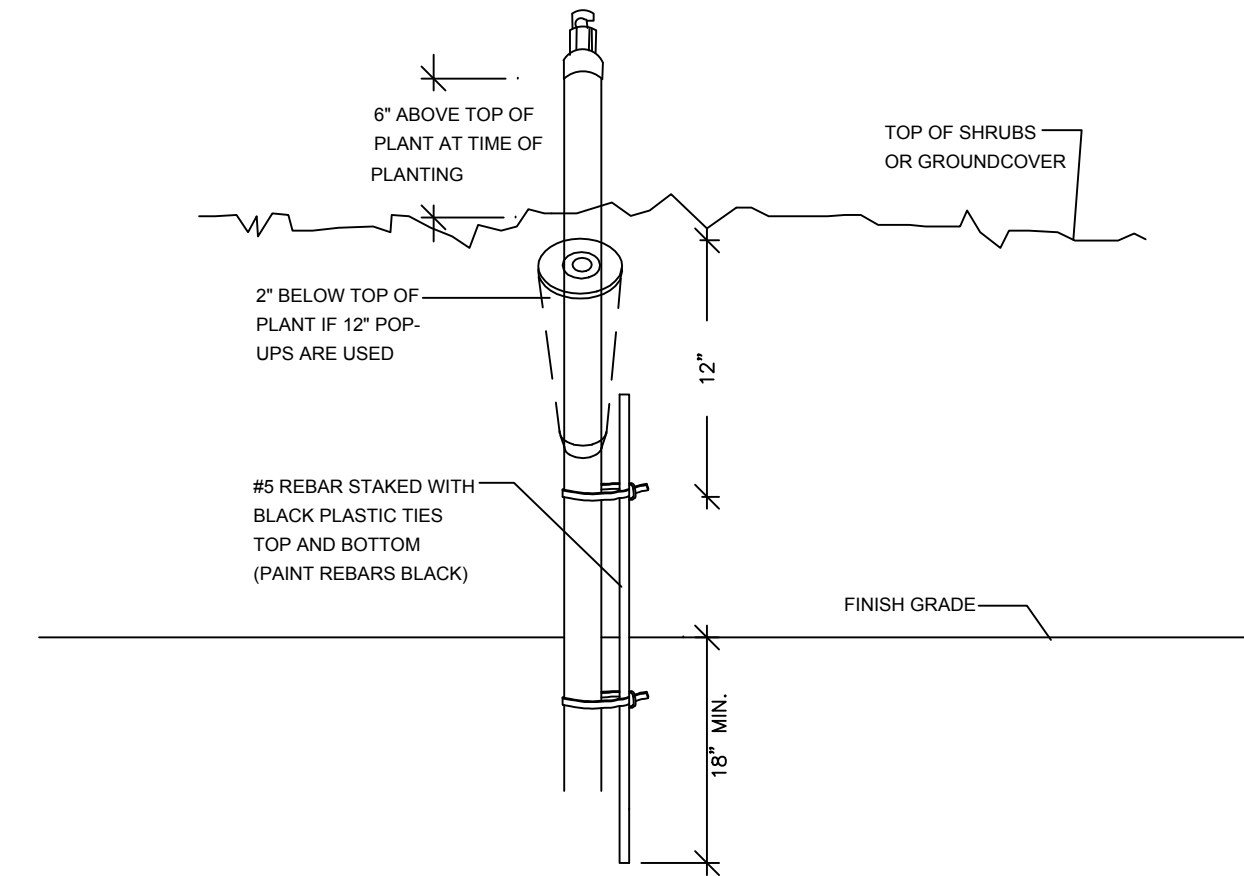


GENERAL NOTES:

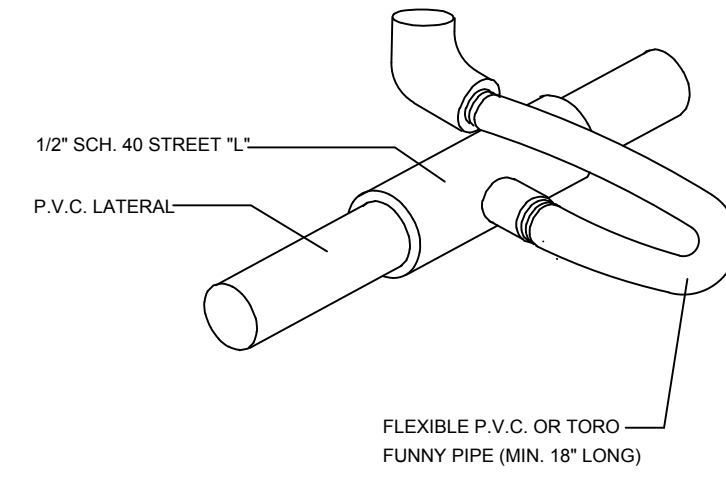
- SCOPE OF WORK:** This contract includes the design and construction of the irrigation system for Douglas Park. The contractor shall be responsible for all materials, labor, and equipment required to complete the project. The contractor shall also be responsible for obtaining all necessary permits and approvals from the City of Miami.
- CONSTRUCTION:** The contractor shall install the irrigation system in accordance with the specifications and drawings provided. The contractor shall also be responsible for coordinating with the City of Miami to ensure that the system is installed in accordance with all applicable codes and ordinances.
- GUARANTEE:** The contractor shall warrant the workmanship and materials for a period of one year from the date of completion of the project. The contractor shall be responsible for repairing or replacing any work that is found to be defective within this period.
- REPAIR UTILITIES:** The contractor shall be responsible for locating and marking all existing utilities before any excavation or construction begins. The contractor shall also be responsible for protecting all existing utilities during the construction process.
- AS-BUILT DRAWINGS:** The contractor shall provide a set of as-built drawings to the City of Miami upon completion of the project. These drawings shall show the actual location and depth of all installed components.
- TESTING:** The contractor shall test the irrigation system at a minimum of 5 PSI and 100 PSI before final acceptance. The contractor shall also be responsible for providing a written report of the test results.
- MAINTENANCE PERIOD:** The contractor shall provide a minimum of 90 days of maintenance to the City of Miami after the completion of the project. During this period, the contractor shall be responsible for repairing or replacing any components that may become damaged or worn.
- UNIT PRICES:** The contractor shall provide a detailed schedule of values for all materials and labor. The contractor shall also be responsible for providing a breakdown of the unit prices for each component of the system.
- CONSTRUCTION SCHEDULE:** The contractor shall provide a construction schedule to the City of Miami at the start of the project. The contractor shall be responsible for updating this schedule as the project progresses.
- CONSTRUCTION SAFETY:** The contractor shall be responsible for implementing all necessary safety measures during the construction process. The contractor shall also be responsible for providing all necessary safety training to all workers.
- CONSTRUCTION ACCESS:** The contractor shall be responsible for ensuring that the City of Miami has unrestricted access to the project site at all times. The contractor shall also be responsible for providing all necessary signage and barriers to protect the site.
- CONSTRUCTION CLEANUP:** The contractor shall be responsible for keeping the project site clean and free of debris at all times. The contractor shall also be responsible for removing all materials and equipment from the site upon completion of the project.
- CONSTRUCTION DELAYS:** The contractor shall be responsible for notifying the City of Miami of any delays to the project. The contractor shall also be responsible for providing a detailed explanation of the cause of the delay.
- CONSTRUCTION COSTS:** The contractor shall be responsible for providing a detailed breakdown of all costs associated with the project. The contractor shall also be responsible for providing a copy of the contractor's license and insurance information.
- CONSTRUCTION PERMITS:** The contractor shall be responsible for obtaining all necessary permits and approvals from the City of Miami. The contractor shall also be responsible for providing a copy of all permits and approvals to the City of Miami.
- CONSTRUCTION INSURANCE:** The contractor shall be responsible for providing all necessary insurance coverage for the project. The contractor shall also be responsible for providing a copy of all insurance policies to the City of Miami.
- CONSTRUCTION BONDS:** The contractor shall be responsible for providing all necessary bonds for the project. The contractor shall also be responsible for providing a copy of all bonds to the City of Miami.
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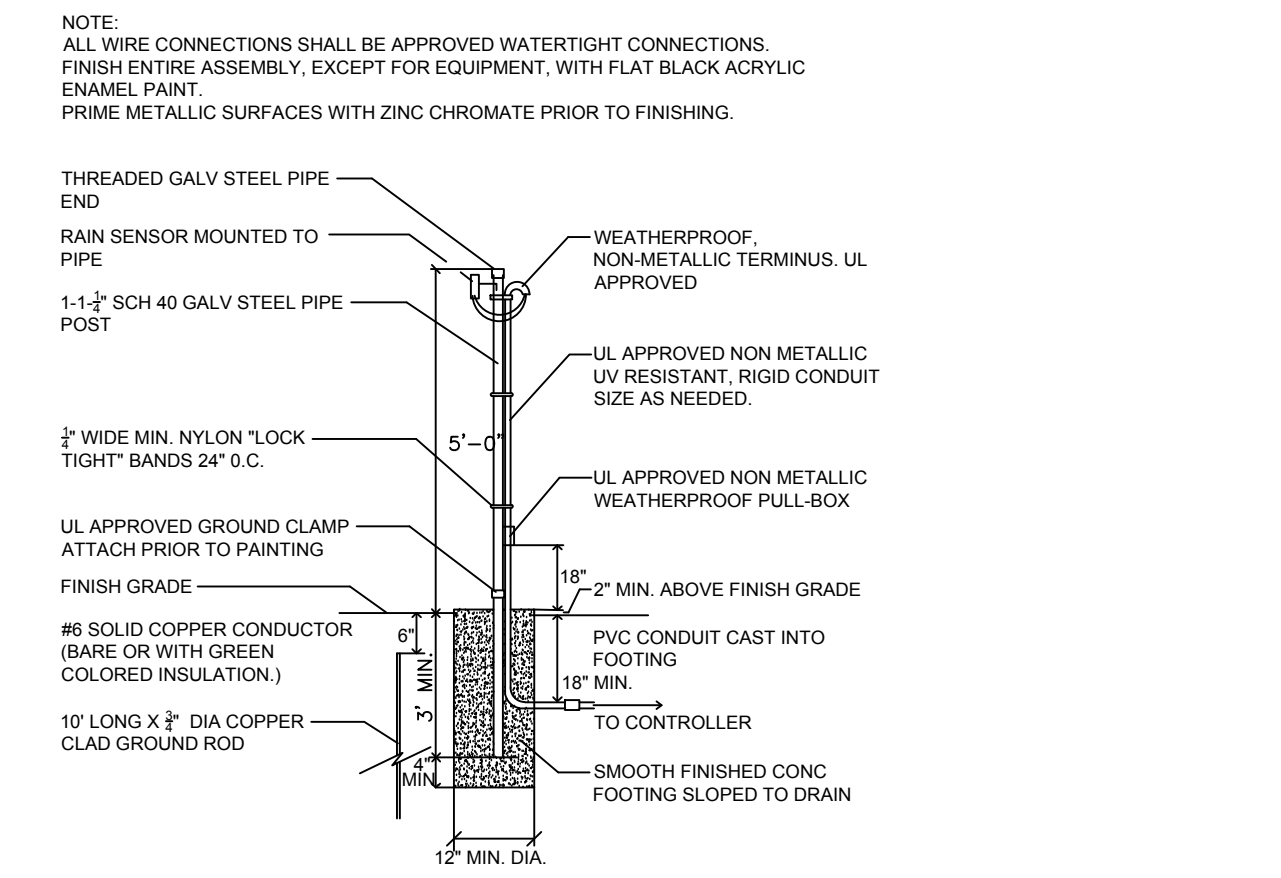
DETAIL OF STUB-OUT FOR FUTURE USE
N.T.S.



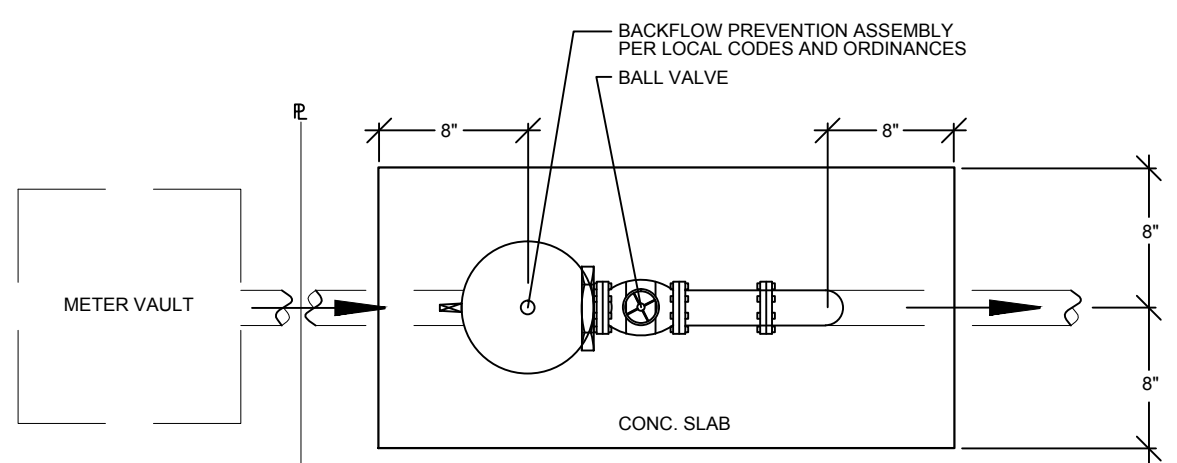
SPRINKLER ON RISER DETAIL FOR SHRUB AREAS
N.T.S.



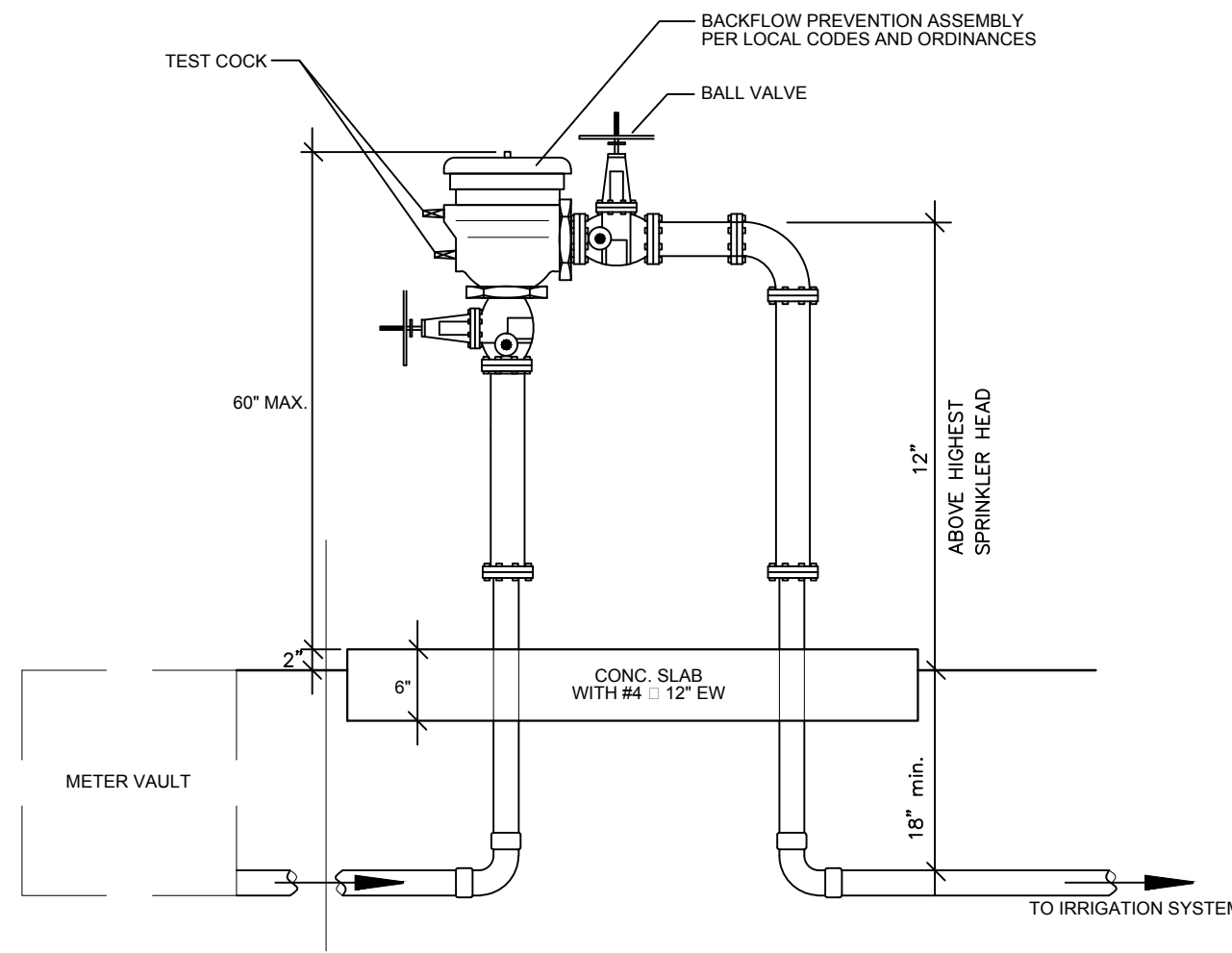
FLEXIBLE SWING JOINT DETAIL
N.T.S.



RAIN SENSOR DETAIL
N.T.S.

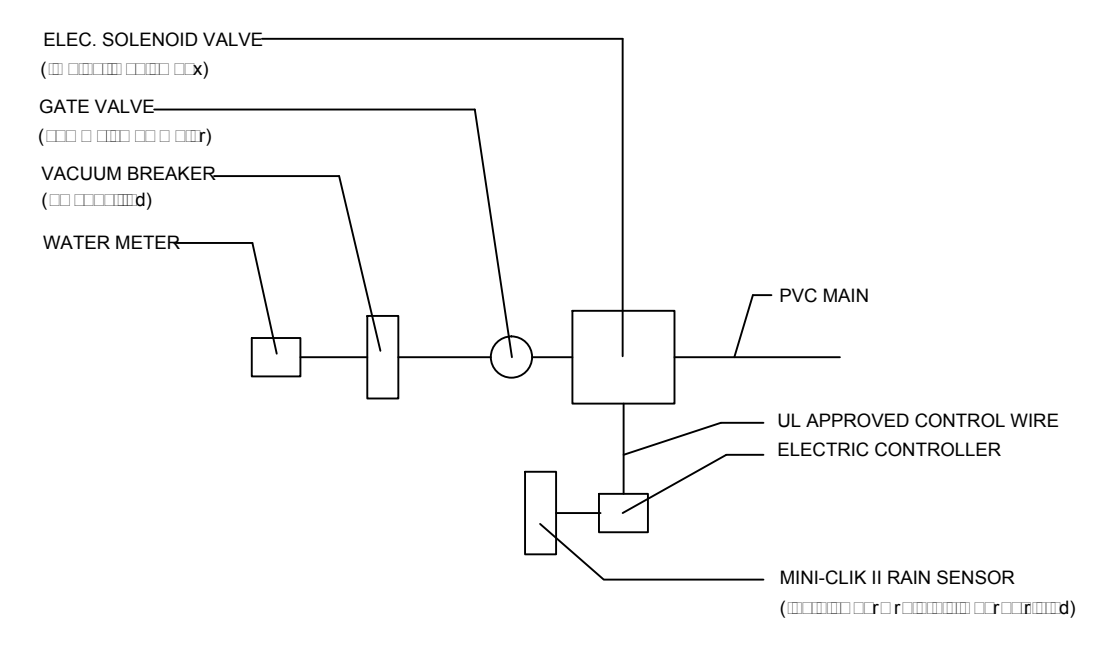


PLAN VIEW
N.T.S.

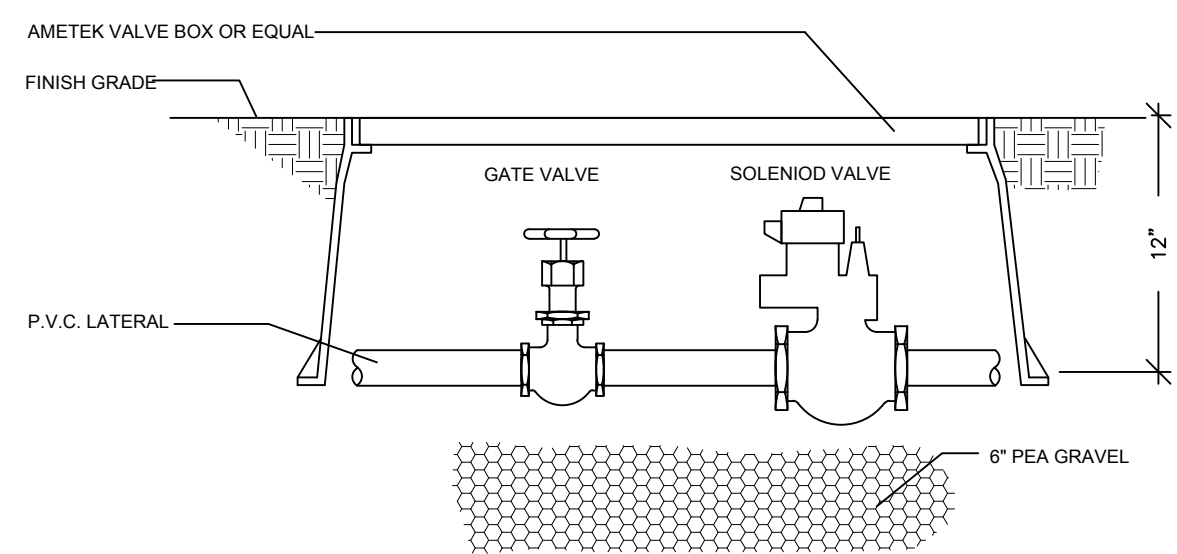


ELEVATION VIEW
N.T.S.

MDC WSA - PRESSURE VACUUM BREAKER DETAIL IRRIGATION SYSTEM ONLY (WS 4.19)
N.T.S.



CONNECTION TO METER DETAIL
N.T.S.



TYPICAL SOLENOID VALVE ASSEMBLY
N.T.S.

NOTES:
 -MATERIALS: PIPES AND FITTINGS SHALL BE APPROVED BY ASAE STANDARDS APPENDIX F.
 -THE ASSEMBLY SHALL BE INSTALLED WITH MINIMUM HORIZONTAL CLEARANCES OF 30 INCHES FREE FROM OBSTRUCTIONS IN ALL DIRECTIONS.
 -GUARD POSTS SHALL BE INSTALLED IF THE ASSEMBLY IS EXPOSED TO POSSIBLE DAMAGE FROM VEHICULAR TRAFFIC, AS DETERMINED BY THE DEPARTMENT.
 -THE ASSEMBLY SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION, APPROVED BY THE DEPARTMENT.
 -PIPING SHALL BE SCHEDULE 40 BRASS OR TYPE K COPPER PIPE WITH THREADED FITTINGS IN ACCORDANCE WITH WASH CONSTRUCTION SPECIFICATIONS FOR DONATION WATER MAINS. PVC PIPING IS NOT ACCEPTED BY WASH.
 -THE DEPARTMENT SHALL HAVE UNRESTRICTED AND CONTINUOUS ACCESS TO THE VACUUM BREAKER ASSEMBLY.
 -SEE SPECIFICATIONS AND CONTACT DEPARTMENT FOR CURRENTLY APPROVED TYPES OF BACKFLOW PREVENTION ASSEMBLIES AND PRESSURE VACUUM BREAKERS (SEE WS 4.18 SHEET 4 OF 4 OR ON THIS SHEET)

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CHECKED BY: KEG

DATE: DECEMBER, 2015

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IRRIGATION NOTES AND DETAILS

DRAWING NUMBER:

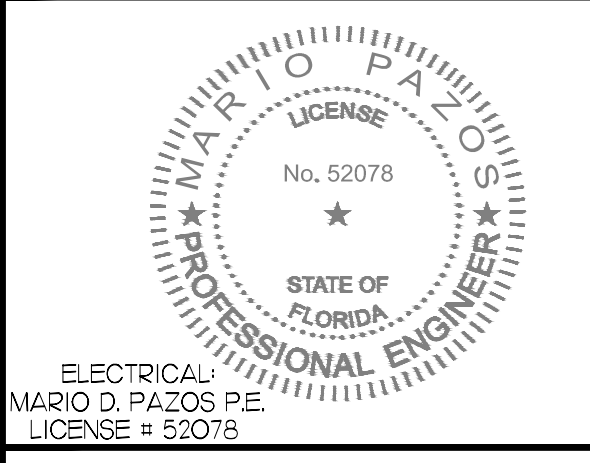
L-05

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SUBCONSULTANT:

PROJ. No. 2650.001 CA 924
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 9195 SOUTH DADELAND BLVD. SUITE 900
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 FAX (305) 670-0444
 www.ljagpa.com

PROFESSIONAL SEAL:



ELECTRICAL:
 MARIO D. PAZOS P.E.
 LICENSE # 52078

PROJECT NUMBER: 09213010.43

PROJECT NAME & ADDRESS:

DOUGLAS PARK
 CORRECTIVE ACTION PLAN
 2795 SW 37 AVENUE
 MIAMI, FL

CLIENT NAME & ADDRESS:

CITY OF MIAMI
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SCALE: AS NOTED

FILE NAME:

DRAWN BY: A.P.

CHECKED BY: A.G.

DATE: OCTOBER 2015

DRAWING TITLE:

SITE PLAN - ELECTRICAL

DRAWING NUMBER:

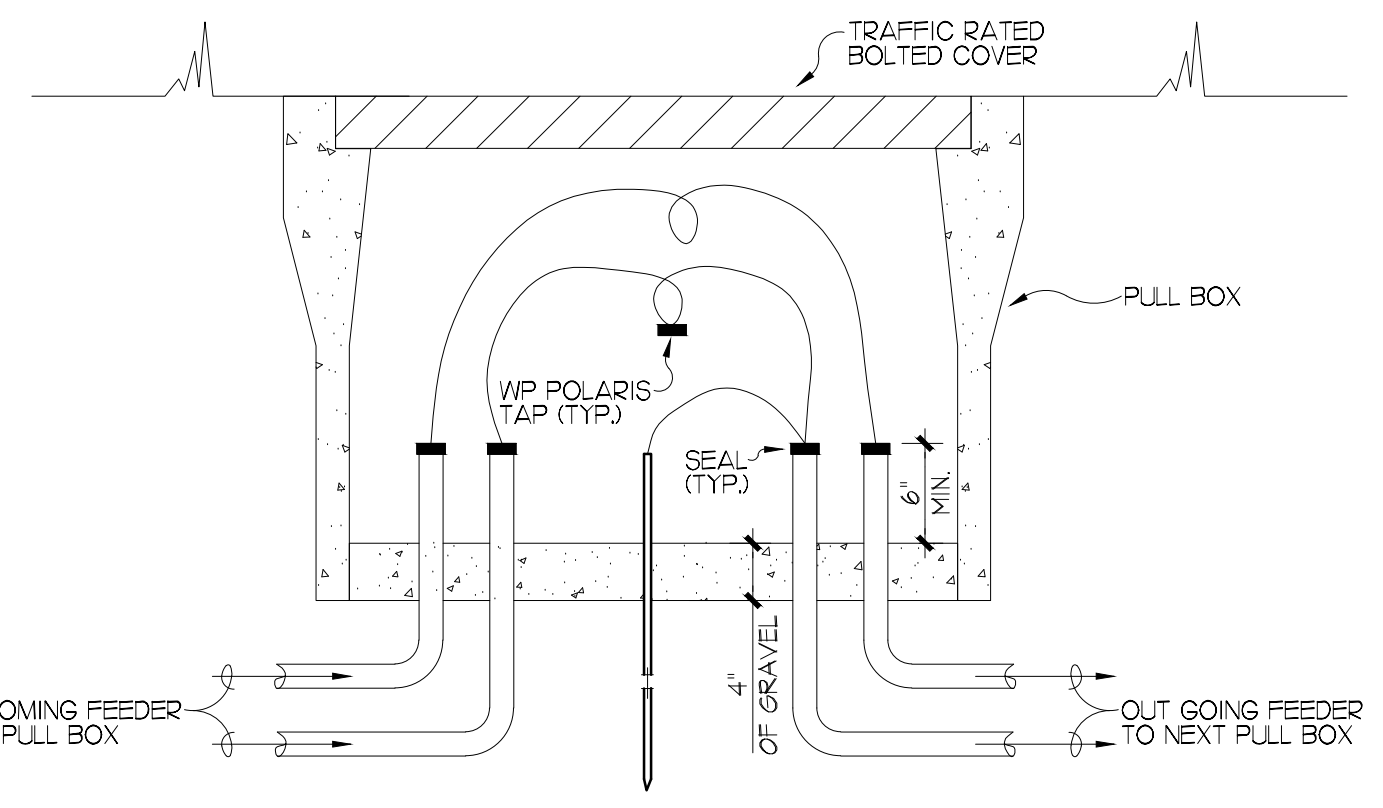
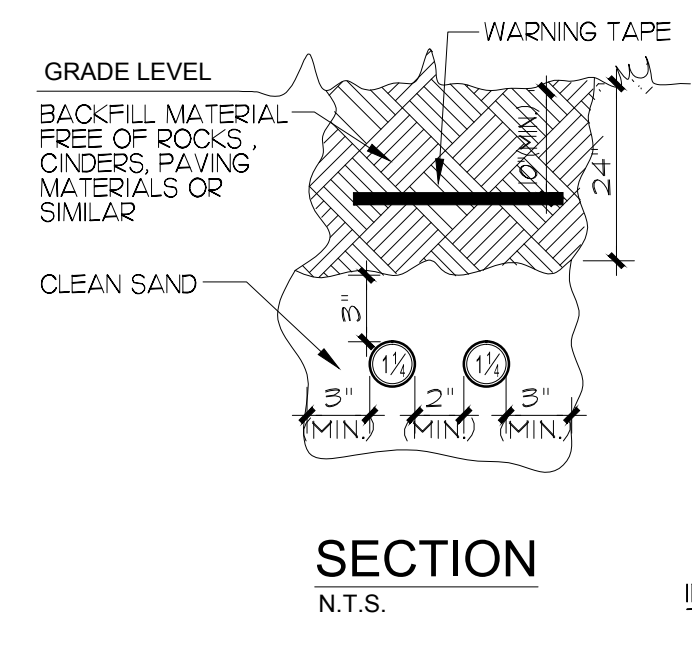
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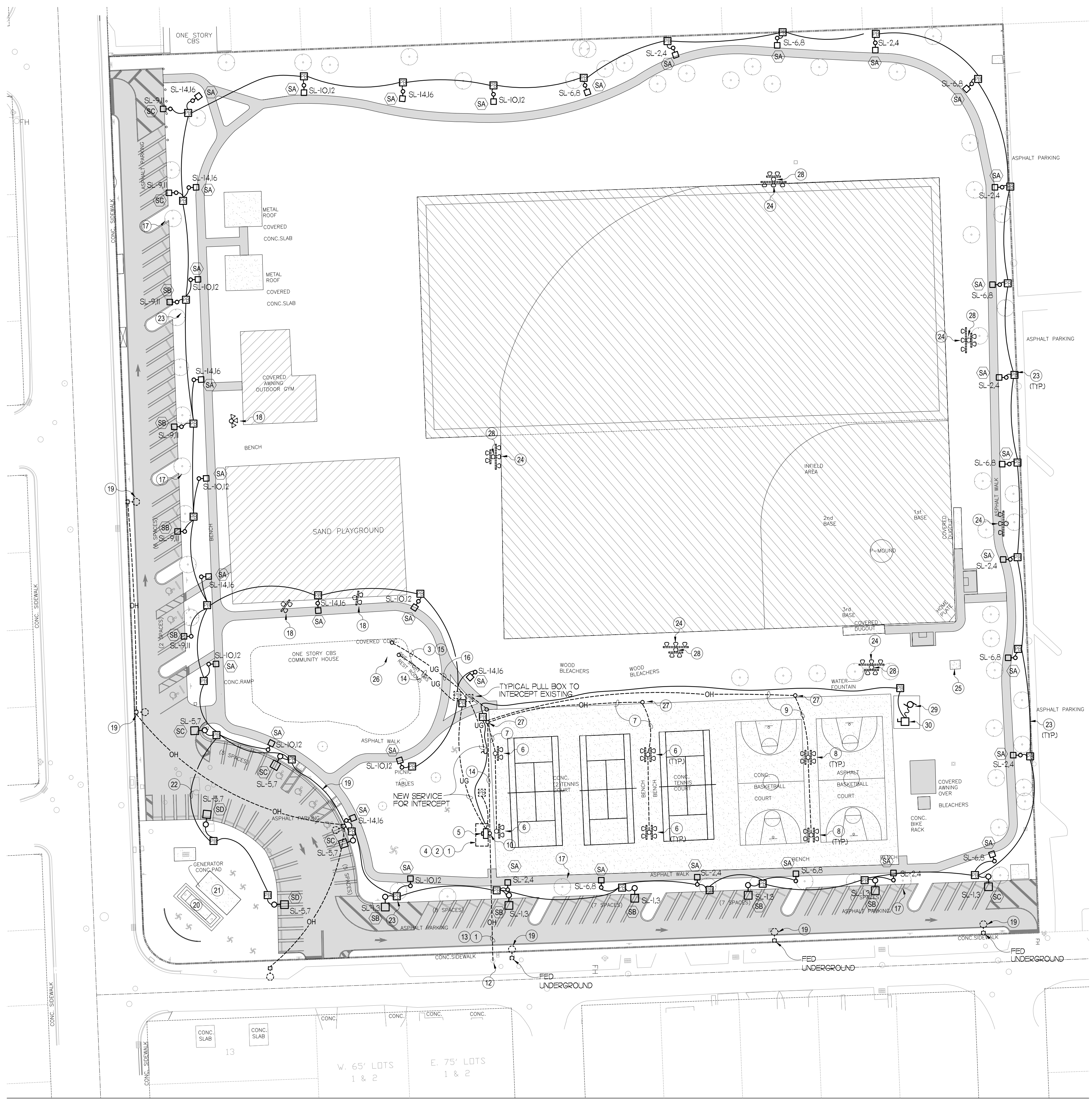
TYPE	MANUFACTURER & CATALOG NO. (OR APPROVED EQUIVALENT)	MOUNTING	LAMPS			FIXTURE		REMARKS
			NO.	TYPE	WATTS	SERVICE VOLTS	TOTAL WATTS	
SA	PHILLIPS HADCO RL32-N64-12 POLE	12' POLE (A.F.G.)	-	LED	69	240	69	12' MOUNTING HEIGHT AFF MTD ON CONCRETE POLE. SEE STRUCTURAL ENGINEERS DWGS
SB	PHILLIPS GARDCO ECF-3-215 LA-641A-NW	16' POLE (A.F.G.)	-	LED	211	240	211	16' MOUNTING HEIGHT AFF ON 20' O.A. CONCRETE POLE DIRECT BURIED 4' BELOW GRADE
SC	PHILLIPS GARDCO ECF-4-215 LA-641A-NW	16' POLE (A.F.G.)	-	LED	211	240	211	16' MOUNTING HEIGHT AFF ON 20' O.A. CONCRETE POLE DIRECT BURIED 4' BELOW GRADE
SD	PHILLIPS GARDCO ECF-5-215 LA-641A-NW	16' POLE (A.F.G.)	-	LED	211	240	211	16' MOUNTING HEIGHT AFF ON 20' O.A. CONCRETE POLE DIRECT BURIED 4' BELOW GRADE

REMARKS:
 1. PROVIDE IN-LINE FUSE TO ALL FIXTURES IN PULL BOX AT BASE.
 2. PROVIDE WP CONNECTIONS AT PULL BOX.

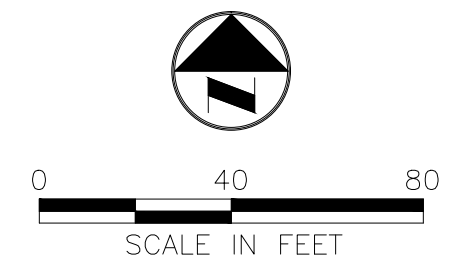
- ELECTRICAL KEY NOTES:**
- ELECTRICAL CONTRACTOR IS TO VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE CURRENT ELECTRICAL INSTALLATION SERVING THE TENNIS, BASKETBALL AND SECURITY LIGHTING SYSTEM ALL CURRENTLY BEING SERVED VIA UNDERGROUND CONDUITS WHICH ARE TO BE INTERCEPTED AND RECONNECTED TO NEW DISTRIBUTION.
 - ALL NEW ELECTRICAL EQUIPMENT SHALL BE NEMA 3R TYPE.
 - ELECTRICAL CONTRACTOR IS TO MATCH EXISTING INSTALLATION CONDUITS AND WIRE SIZE.
 - NEW EXTERIOR INSTALLATION IS TO BE A TEMPORARY SOLUTION TO DEMOLITION OF EXISTING RESTROOM FACILITY BUILDING WHERE CURRENT ELECTRICAL SERVICE DISTRIBUTION IS FOUND AND UNTIL A NEW BUILDING IS BUILT.
 - EXISTING DAMAGED FPL METER CAN TO BE REMOVED AND RELOCATED INSIDE NEW CAGED DISTRIBUTION FOR LIMITED ACCESS TO UNAUTHORIZED PERSONNEL.
 - EXISTING TENNIS COURT LIGHT POLES AND 1000W FIXTURES TO REMAIN.
 - EXISTING AERIAL TENNIS COURTS LIGHTING SERVICE TO REMAIN.
 - EXISTING BASKETBALL COURT LIGHT POLES AND 1000W FIXTURES TO REMAIN.
 - EXISTING AERIAL BASKETBALL COURTS LIGHTING SERVICE TO REMAIN.
 - EXISTING FPL SERVICE POLE. 120 / 240 - 3 PHASE.
 - EXISTING ELECTRICAL DISTRIBUTION SERVING BASEBALL FIELD.
 - EXISTING FPL 120/240-3W, 1-PHASE TERMINAL POLE INSTALLATION TO REMAIN.
 - EXISTING FPL OVERHEAD SERVICE TO REMAIN.
 - EXISTING SECTION OF FPL SERVICE COMING FROM OVERHEAD TO UNDERGROUND INTO EXISTING ELECTRICAL ROOM TO BE DEMOLISHED VIA WEATHERHEAD AND RISER ON POLE TO BE REMOVED ONCE NEW INSTALLATION IS COMPLETED.
 - EXISTING TENNIS COURT ELECTRICAL SERVICE FROM EXISTING ELECTRICAL ROOM (TO BE REMOVED), PROVIDE A NEW PULL BOX TO INTERCEPT ELECTRICAL SERVICE AND EXTEND OVER TO NEW OUTDOOR DISTRIBUTION.
 - EXISTING BASKETBALL COURT ELECTRICAL SERVICE FROM EXISTING ELECTRICAL ROOM (TO BE REMOVED), PROVIDE A NEW PULL BOX TO INTERCEPT ELECTRICAL SERVICE AND EXTEND OVER TO NEW OUTDOOR DISTRIBUTION.
 - EXISTING TREE CANOPY TO BE TRIMMED TO ALLOW FOR PROPER LIGHT DISTRIBUTION.
 - EXISTING POLE MOUNTED SECURITY LIGHTING TO REMAIN. INTERCEPT EXISTING ELECTRICAL SERVICE WITH A NEW PULL BOX FROM WHERE TO EXTEND FEEDER OVER TO NEW ELECTRICAL DISTRIBUTION.
 - EXISTING FPL COBRA HEAD FIXTURES, WIRING AND POLES TO BE REMOVED.
 - EXISTING LIFT STATION GENERATOR AND SUB-BASE TANK TO REMAIN.
 - EXISTING LIFT STATION TO REMAIN.
 - TRENCH EXISTING ASPHALT PARKING TO CROSS CONDUIT AS REQUIRED AND RESTORE TO MATCH CURRENT CONDITIONS. COMPACT SOIL AS NEEDED.
 - NEW PULL-BOX TO SERVE NEW WALKWAY AND PARKING LIGHTS. SET PULL BOX IN A STABLE, COMPACTED BED WITH COVER FLUSH WITH ADJACENT GRADE. (TYPICAL)
 - EXISTING BASEBALL FIELD MUSCO LIGHTING TO REMAIN.
 - EXISTING BASEBALL FIELD LIGHTING AND ASSOCIATED SECURITY LIGHTING TO REMAIN. 277/480V, 3-PHASE, 4-WIRE SERVICE IN A FENCED ENCLOSURE. (MUSCO LIGHTING DISTRIBUTION.)
 - EXISTING ELECTRICAL ROOM IN BUILDING TO BE REMOVED. 120/240V, 1-PHASE, 3-WIRE.
 - EXISTING WOOD POLE TO REMAIN.
 - FED FROM MUSCO LIGHTING DISTRIBUTION.
 - IRRIGATION BOOSTER PUMP IN A CHAIN LINK ENCLOSURE. SEE CIVIL DRAWINGS FOR DETAILS.
 - 3P-60A WEATHER-PROOF PUMP PANEL SERVICE DISCONNECT NEMA 4-X. FITTINGS AND INSTALLATION TO BE RATED NEMA 4X.



TYPICAL PULL BOX DETAIL
 SCALE: NTS



BID SET
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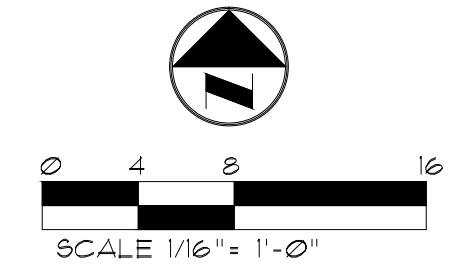
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v:\25050.001\EL\E1.01.dwg - Jan 06, 2016 - 2:08pm Layout Name: By: aprl



MATCH LINE. SEE SHEET E1.02

MATCH LINE. SEE SHEET E1.04



WALKWAY ILLUMINATION SCHEDULE

Symbol	Qty	Label	Description	Lumens /Lamp	LLD	LDD	BF	LLF	Lim. Watts	Total Watts
⊙	35	SA	PHILIPS RADCO RL32-N64 POLE MOUNT 12' A.F.G.	N.A.	0.900	0.900	1.000	0.810	68.1	2383.5

Label	Avg	Max	Min	Avg/Min	Max/Min
WALKWAY	1.18	2.2	0.5	2.36	4.40

PARKING ILLUMINATION SCHEDULE

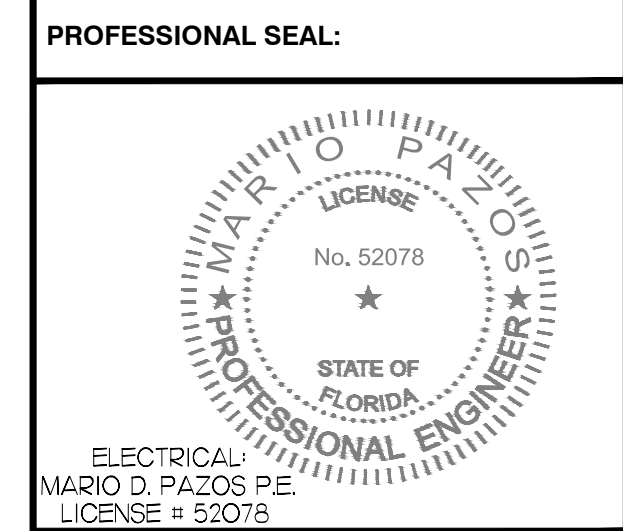
Symbol	Qty	Label	Description	Lumens /Lamp	LLD	LDD	BF	LLF	Lim. Watts	Total Watts
⊞	9	SB	PHILIPS RADCO ECF-3-215LA-641A-NW POLE MOUNT 16' A.F.G.	N.A.	0.9000	0.900	1.0000	0.810	210	1890
⊞	6	SC	PHILIPS RADCO ECF-4-215LA-641A-NW POLE MOUNT 16' A.F.G.	N.A.	0.9000	0.900	1.0000	0.810	210.2	1261.2
⊞	2	SD	PHILIPS RADCO ECF-5-215LA-641A-NW POLE MOUNT 16' A.F.G.	N.A.	0.9000	0.900	1.0000	0.810	210.3	420.6

Label	Avg	Max	Min	Avg/Min	Max/Min
PARK & DRIVE	3.54	8.8	1.0	3.54	8.80

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS, INC.
7700 N. KENDALL DRIVE, SUITE 300, MIAMI, FL 33156
PH. (305) 412-8185 FAX. (305) 412-8105 FL
CERTIFICATE OF AUTHORIZATION NO. 00004892

SUBCONSULTANT:

PROJ. No. 25050.001 CA 924
LOUIS J. AGUIRRE & ASSOCIATES P.A.
CONSULTING ENGINEERS
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MIAMI, FLORIDA 33156
TELEPHONE: (305) 670-0141
FAX: (305) 670-0144
www.ljagpa.com



PROJECT NUMBER: 09213010.43
PROJECT NAME & ADDRESS:

DOUGLAS PARK
CORRECTIVE ACTION PLAN
2795 SW 37 AVE
MIAMI, FL

CLIENT NAME & ADDRESS:

CITY OF MIAMI
CAPITAL IMPROVEMENTS PROGRAM
444 SW 2ND AVENUE
MIAMI, FLORIDA 33130

REV	DESCRIPTION	DATE
△	OWNER REVISION	11/23/15
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SCALE: AS NOTED

FILE NAME:

DRAWN BY: A.P.

CHECKED BY: A.G.

DATE: OCTOBER 2015

DRAWING TITLE:

SITE PLAN
PHOTOMETRIC
- ELECTRICAL

DRAWING NUMBER:

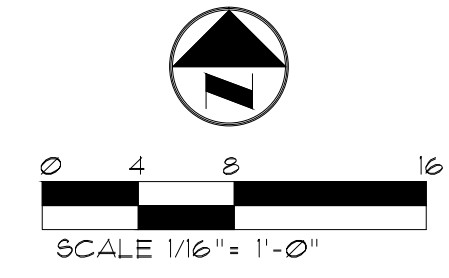
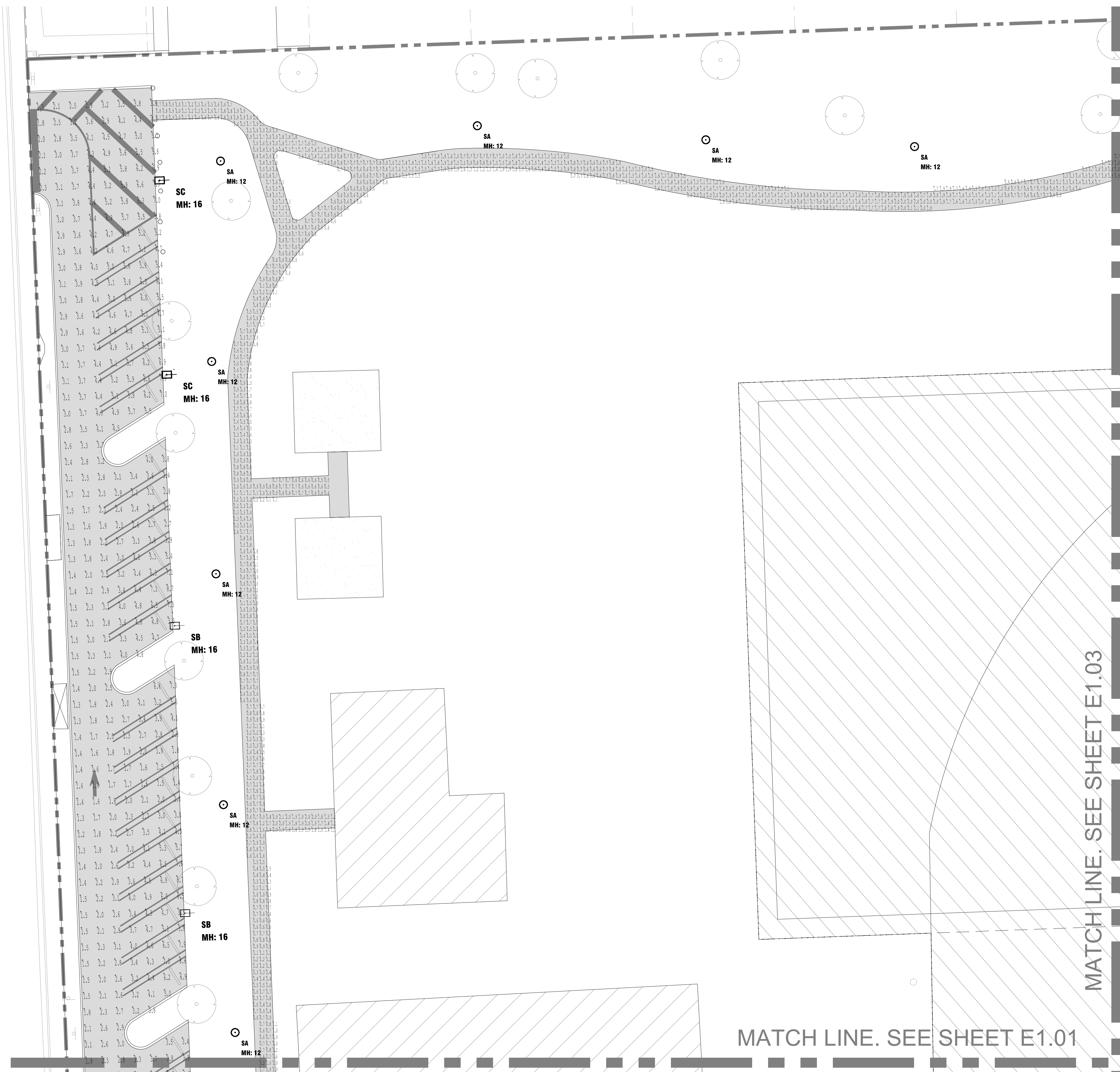
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SHEET

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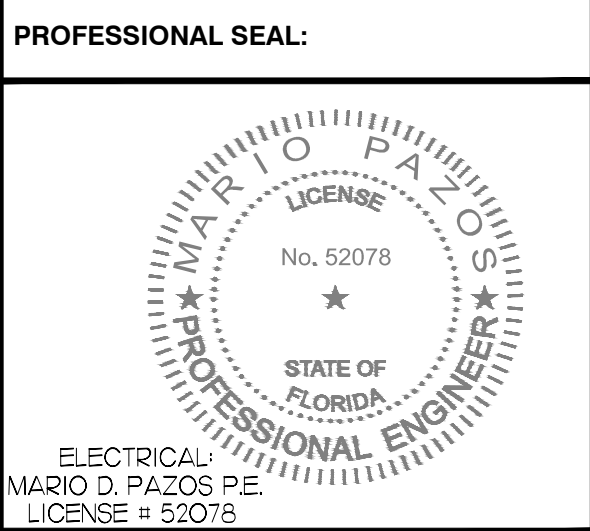


MATCH LINE. SEE SHEET E1.03

MATCH LINE. SEE SHEET E1.01

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DATE: OCTOBER 2015

DRAWING TITLE:

SITE PLAN
 PHOTOMETRIC
 - ELECTRICAL

DRAWING NUMBER:

E1.02

SHEET

WALKWAY ILLUMINATION SCHEDULE

Luminaire Schedule										
Symbol	Qty	Label	Description	Lumens /Lamp	LLD	LDD	BF	LLF	Lim. Watts	Total Watts
⊙	35	SA	PHILIPS RADCO RL32-N64 POLE MOUNT 12' A.F.G.	N.A.	0.900	0.900	1.000	0.810	68.1	2383.5

Calculation Summary					
Label	Avg	Max	Min	Avg/Min	Max/Min
WALKWAY	1.18	2.2	0.5	2.36	4.40

PARKING ILLUMINATION SCHEDULE

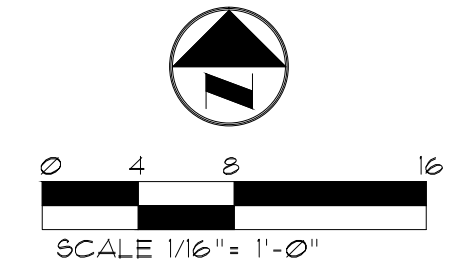
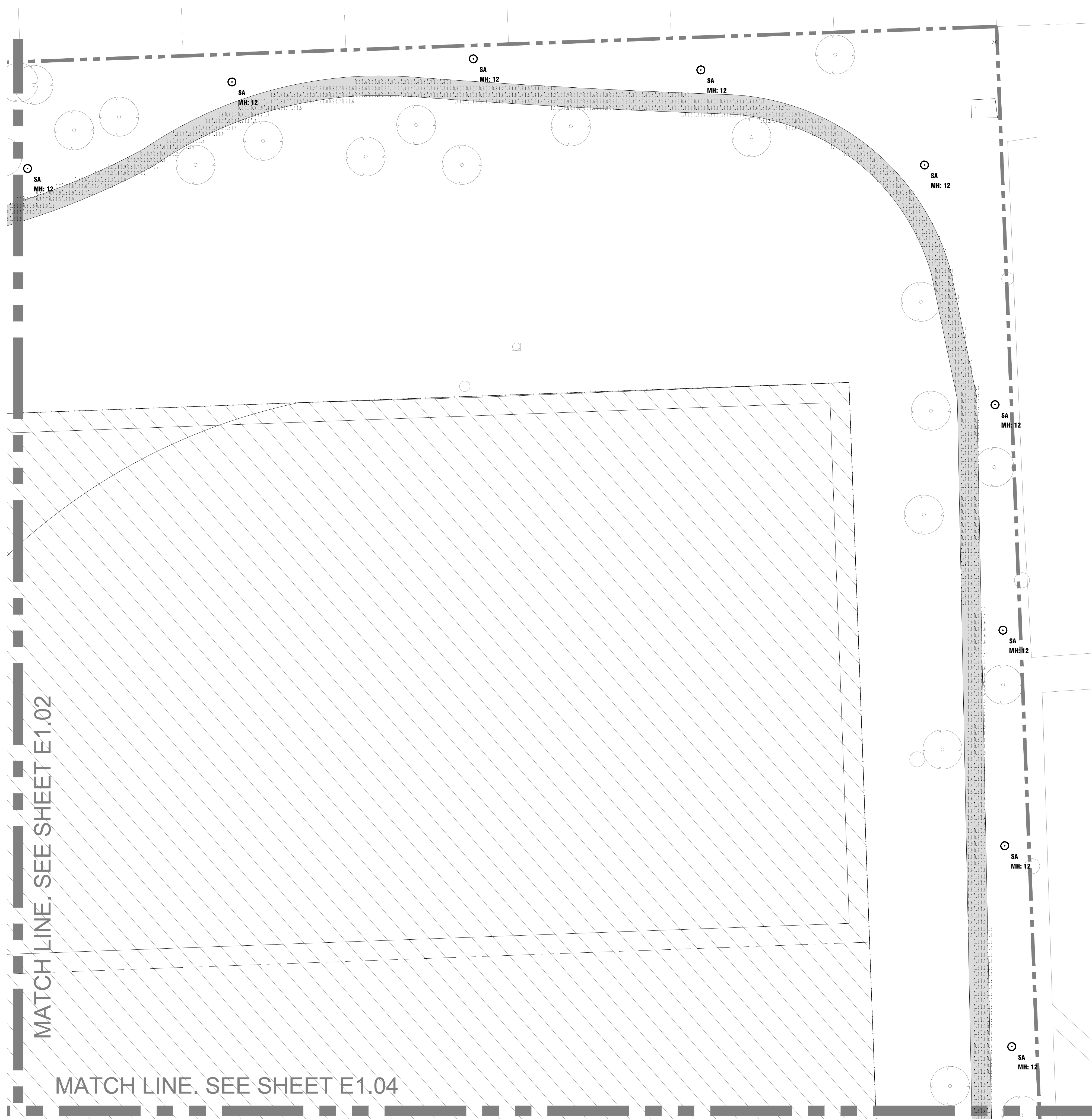
Luminaire Schedule										
Symbol	Qty	Label	Description	Lumens /Lamp	LLD	LDD	BF	LLF	Lim. Watts	Total Watts
⊞	9	SB	PHILIPS RADCO ECF-3-215LA-641A-NW POLE MOUNT 16' A.F.G.	N.A.	0.900	0.900	1.000	0.810	210	1890
⊞	6	SC	PHILIPS RADCO ECF-4-215LA-641A-NW POLE MOUNT 16' A.F.G.	N.A.	0.900	0.900	1.000	0.810	210.2	1261.2
⊞	2	SD	PHILIPS RADCO ECF-5-215LA-641A-NW POLE MOUNT 16' A.F.G.	N.A.	0.900	0.900	1.000	0.810	210.3	420.6

Calculation Summary					
Label	Avg	Max	Min	Avg/Min	Max/Min
PARK & DRIVE	3.54	8.8	1.0	3.54	8.80

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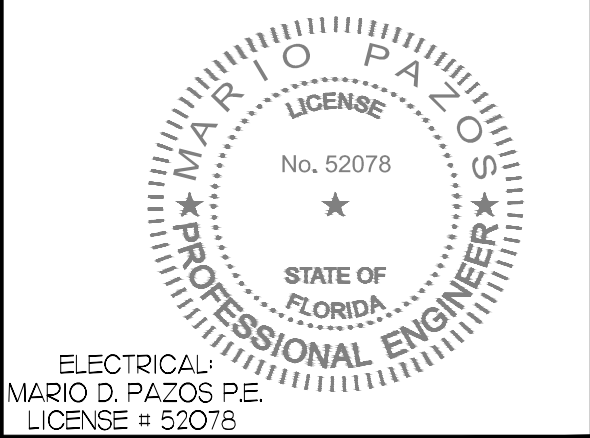
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PROFESSIONAL SEAL:



PROJECT NUMBER: 09213010.43

PROJECT NAME & ADDRESS:

DOUGLAS PARK
 CORRECTIVE ACTION PLAN
 2795 SW 37 AVE
 MIAMI, FL

CLIENT NAME & ADDRESS:



REV	DESCRIPTION	DATE
△	OWNER REVISION	11/23/15
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SCALE: AS NOTED

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DATE: OCTOBER 2015

DRAWING TITLE:

SITE PLAN
 PHOTOMETRIC
 - ELECTRICAL

DRAWING NUMBER:

E1.03

SHEET

WALKWAY ILLUMINATION SCHEDULE

Symbol	Qty	Label	Description	Lumens /Lamp	LLD	LDD	BF	LLF	Lum. Watts	Total Watts
⊙	35	SA	PHILIPS RADCO RL32-N64 POLE MOUNT 12' A.F.G.	N.A.	0.900	0.900	1.000	0.810	68.1	2383.5

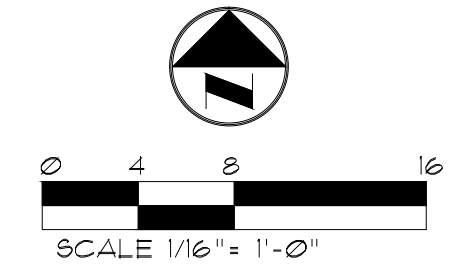
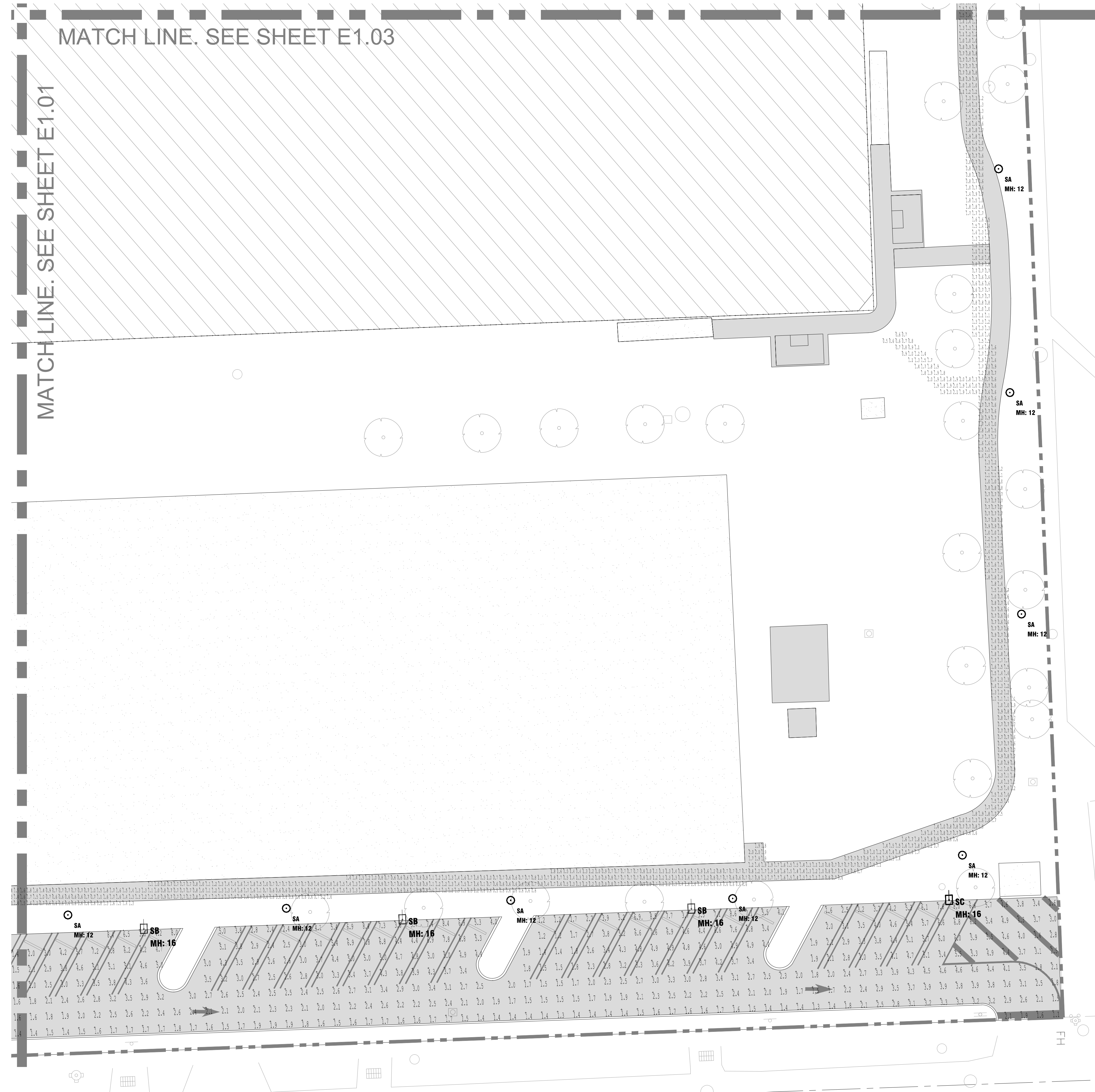
Label	Avg	Max	Min	Avg/Min	Max/Min
WALKWAY	1.18	2.2	0.5	2.36	4.40

BID SET


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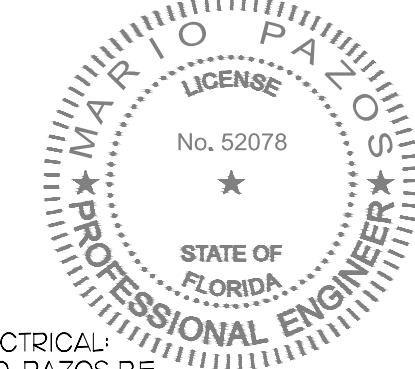


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 STEARNS, CONRAD AND SCHMIDT
 CONSULTING ENGINEERS, INC.
 7700 N. KENDALL DRIVE, SUITE 300, MIAMI, FL 33156
 PH. (305) 412-8185 FAX. (305) 412-8105 FL
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SUBCONSULTANT:
 PROJ. No. 25050.001 CA 924

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 9150 SOUTH DADELAND BLVD. SUITE 600
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 TELEPHONE: (305) 670-0141
 FAX: (305) 670-0144
 www.ljagpa.com

PROFESSIONAL SEAL:

 ELECTRICIAN
 MARIO D. PAZOS P.E.
 LICENSE # 52078

PROJECT NUMBER: 09213010.43
 PROJECT NAME & ADDRESS:

DOUGLAS PARK
 CORRECTIVE ACTION PLAN
 2795 SW 37 AVE
 MIAMI, FL

CLIENT NAME & ADDRESS:

CITY OF MIAMI
 CAPITAL IMPROVEMENTS PROGRAM
 444 SW 2ND AVENUE
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REV	DESCRIPTION	DATE
△	OWNER REVISION	11/23/15
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SCALE: AS NOTED

FILE NAME:

DRAWN BY: A.P.

CHECKED BY: A.G.

DATE: OCTOBER 2015

DRAWING TITLE:

**SITE PLAN
 PHOTOMETRIC
 - ELECTRICAL**

DRAWING NUMBER:

E1.04

SHEET

WALKWAY ILLUMINATION SCHEDULE

Symbol	Qty	Label	Description	Lumens /Lamp	LLD	LDD	BF	LLF	Lim. Watts	Total Watts
☉	35	SA	PHILIPS RADCO RL32-N64 POLE MOUNT 12' A.F.G.	N.A.	0.900	0.900	1.000	0.810	68.1	2383.5

Label	Avg	Max	Min	Avg/Min	Max/Min
WALKWAY	1.18	2.2	0.5	2.36	4.40

PARKING ILLUMINATION SCHEDULE

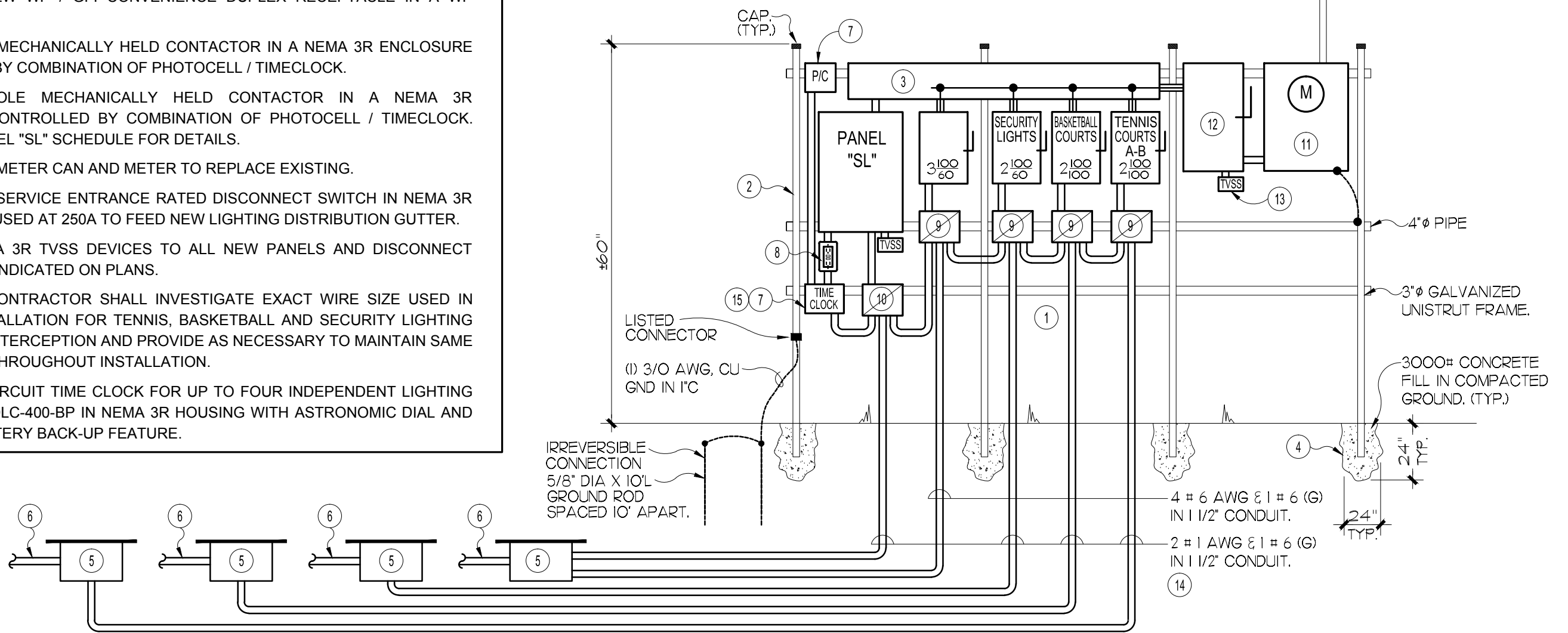
Symbol	Qty	Label	Description	Lumens /Lamp	LLD	LDD	BF	LLF	Lim. Watts	Total Watts
☐	9	SB	PHILIPS GARCO ECF-3-215LA-641A-NW POLE MOUNT 16' A.F.G.	N.A.	0.9000	0.9000	1.0000	0.810	210	1890
☐	6	SC	PHILIPS GARCO ECF-4-215LA-641A-NW POLE MOUNT 16' A.F.G.	N.A.	0.9000	0.9000	1.0000	0.810	210.2	1261.2
☐	2	SD	PHILIPS GARCO ECF-5-215LA-641A-NW POLE MOUNT 16' A.F.G.	N.A.	0.9000	0.9000	1.0000	0.810	210.3	420.6

Label	Avg	Max	Min	Avg/Min	Max/Min
PARK & DRIVE	3.54	8.8	1.0	3.54	8.80

BID SET
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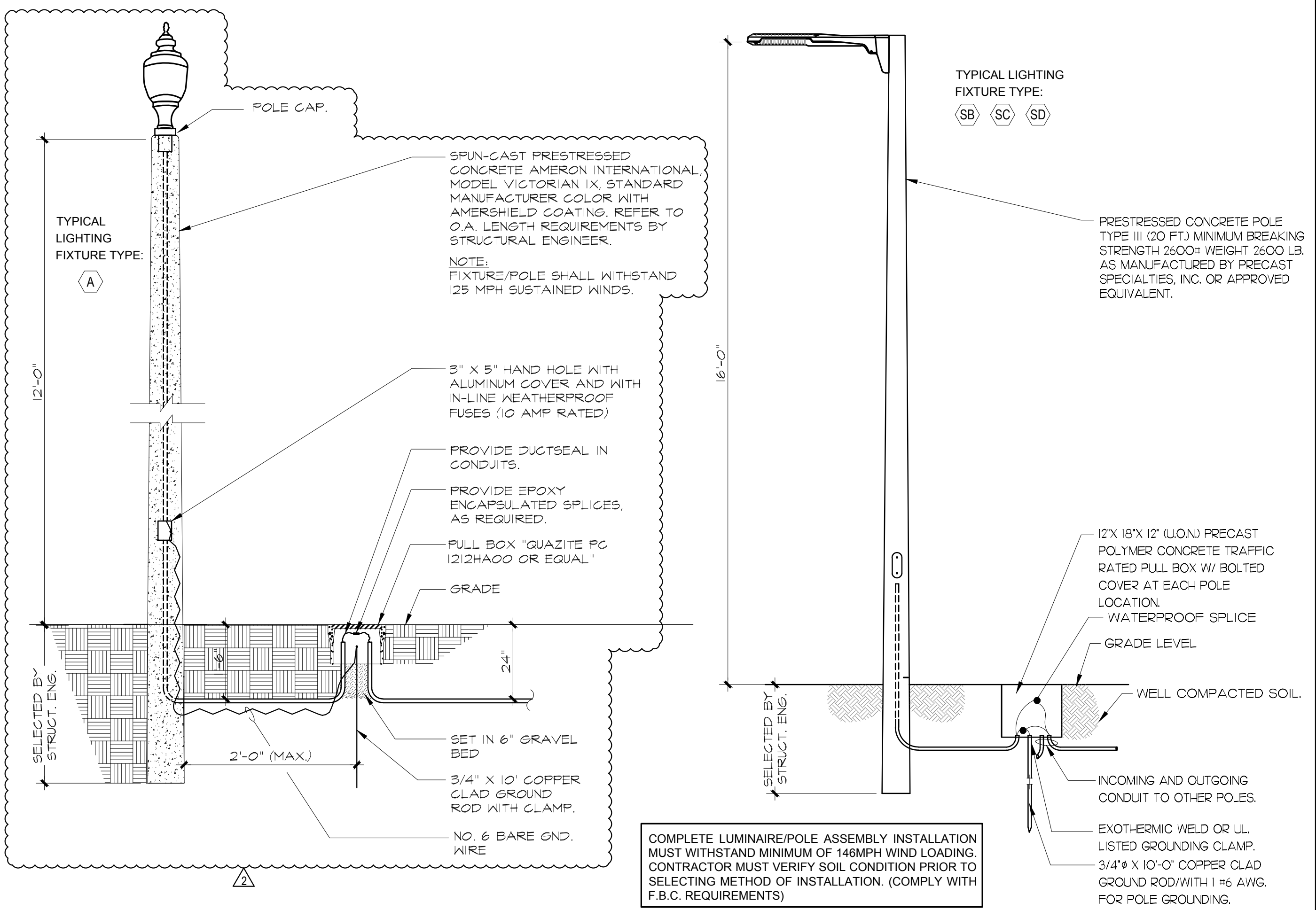


- ELECTRICAL RISER DIAGRAM NOTES:**
- ALL NEW EQUIPMENT LOCATED IN EXPOSED ELECTRICAL DISTRIBUTION SHALL BE NEMA TYPE 3R. FENCED ENCLOSURE IS TO BE 7' DEEP BY 10' WIDE WITH A MINIMUM OF 48" BETWEEN FACE OF ELECTRICAL EQUIPMENT AND CHAIN LINK FENCE. INSTALLATION, ACCESS AND EQUIPMENT CLEARANCES SHALL BE IN STRICT COMPLIANCE WITH NEC.
 - PROVIDE A GALVANIZED STRUCTURE TO MOUNT ALL NEW ELECTRICAL EQUIPMENT ON AS INDICATED. NEW DISTRIBUTION SHALL BE LOCATED BEHIND A 6' HIGH CHAIN-LINK ENCLOSURE WITH A LOCKED GATE.
 - NEW 8" x 8" x 60" LONG NEMA 3R GUTTER.
 - 24" DIAMETER BY 24" DEEP CONCRETE FILLED ELECTRICAL STRUCTURE SUPPORT POST.
 - NEW PULL BOX TO INTERCEPT EXISTING ELECTRICAL SERVICES RUNNING OUT FROM EXISTING ELECTRICAL ROOM DISTRIBUTION (TO BE REMOVED) TO TENNIS COURTS, BASKETBALL COURTS, SECURITY LIGHTS AND EXTENDED OVER TO NEW ELECTRICAL DISTRIBUTION. PROVIDE PULL BOXES WITH TRAFFIC RATED BOLTED COVERS ON A WELL COMPACTED BASE FLUSH WITH ADJACENT SURFACES TO AVOID TRIPPING HAZARDS.
 - EXISTING UNDERGROUND ELECTRICAL SERVICES TO BE INTERCEPTED AND EXTENDED OVER TO NEW ELECTRICAL DISTRIBUTION.
 - PROVIDE A NEW PHOTO CELL AND TIMECLOCK TO PROVIDE FLEXIBILITY IN THE PROGRAMMING OF PARK SECURITY AND SPORTS FIELD LIGHTING.
 - PROVIDE A NEW WP / GFI CONVENIENCE DUPLEX RECEPTACLE IN A WP HOUSING.
 - NEW 2P, 100A MECHANICALLY HELD CONTACTOR IN A NEMA 3R ENCLOSURE CONTROLLED BY COMBINATION OF PHOTOCELL / TIMECLOCK.
 - NEW MULTI-POLE MECHANICALLY HELD CONTACTOR IN A NEMA 3R ENCLOSURE CONTROLLED BY COMBINATION OF PHOTOCELL / TIMECLOCK. REFER TO PANEL "SL" SCHEDULE FOR DETAILS.
 - NEW 400A FPL METER CAN AND METER TO REPLACE EXISTING.
 - NEW 3P, 400A SERVICE ENTRANCE RATED DISCONNECT SWITCH IN NEMA 3R ENCLOSURE FUSED AT 250A TO FEED NEW LIGHTING DISTRIBUTION GUTTER.
 - PROVIDE NEMA 3R TVSS DEVICES TO ALL NEW PANELS AND DISCONNECT SWITCHES AS INDICATED ON PLANS.
 - ELECTRICAL CONTRACTOR SHALL INVESTIGATE EXACT WIRE SIZE USED IN EXISTING INSTALLATION FOR TENNIS, BASKETBALL AND SECURITY LIGHTING AT POINT OF INTERCEPTION AND PROVIDE AS NECESSARY TO MAINTAIN SAME WIRE GAUGE THROUGHOUT INSTALLATION.
 - TORK MULTI-CIRCUIT TIME CLOCK FOR UP TO FOUR INDEPENDENT LIGHTING SEQUENCES. DLC-400-BP IN NEMA 3R HOUSING WITH ASTRONOMIC DIAL AND INTERNAL BATTERY BACK-UP FEATURE.



ELECTRICAL DISTRIBUTION ELEVATION

N.T.S.



TYPICAL POLE DETAIL OF LIGHTING FIXTURES

N.T.S.

TYPE		SQUARE D		NEW PANEL "SL"		MAIN BUS		100 AMP								
SERVICE		1PH, 3W, 60HZ		FULLY RATED EQUIPMENT SHORT CIRCUIT RATING		NEUTRAL:		100 AMP								
VOLTAGE		120 / 240		22000 AMPS SYMM. @ 240 V. (U.L. LISTED)		MAINS:		100 MCB								
MOUNTING:		SURFACE NEMA 3R		LOCATION:		TOP										
DEMAND LOAD VA	NO DEMB LOAD VA	CONDUIT	WIRE SIZE	TRIP AMP	POLES	LOAD DESCRIPTION AND REMARKS	PHASE NO.	OCT A B C	LOAD DESCRIPTION AND REMARKS	POLES	TRIP AMP	WIRE SIZE	CONDUIT	NO DEMB LOAD VA	DEMAND LOAD VA	
0	500	3/4	10	20	2-	PARK LIGHTS	-1	---	2-	WALKWAY LIGHTS	-2	10	1-1/4	450	0	
0	500	3/4	10	20	2-	PARK LIGHTS	-3	---	4-	WALKWAY LIGHTS	-2	10	1-1/4	450	0	
0	500	3/4	10	20	2-	PARK LIGHTS	-5	---	6-	WALKWAY LIGHTS	-2	10	1-1/4	450	0	
0	500	3/4	10	20	2-	PARK LIGHTS	-7	---	8-	WALKWAY LIGHTS	-2	10	1-1/4	450	0	
0	500	3/4	10	20	2-	PARK LIGHTS	-9	---	10-	WALKWAY LIGHTS	-2	10	1-1/4	450	0	
0	500	3/4	10	20	2-	PARK LIGHTS	-11	---	12-	WALKWAY LIGHTS	-2	10	1-1/4	450	0	
0	360	3/4	12	20	1-	GFI RECEPT	-13	---	14-	WALKWAY LIGHTS	-2	10	1-1/4	450	0	
0	360	3/4	12	20	1-	TC CONTROL	-15	---	16-	SPARE	-1	20		0	0	
0	0				1-	SPARE	-17	---	18-	SPARE	-1	20		0	0	
0	0				1-	SPARE	-19	---	20-		-1	20		0	0	
0	0				1-	SPARE	-21	---	22-		-1	20		0	0	
0	0				1-	SPARE	-23	---	24-		-1	20		0	0	
0	0				1-	SPACES	-25	---	26-	SPACES	-1	20		0	0	
0	0				1-	SPACES	-27	---	28-	TVSS	-2	30	10	3/4	0	0
0	0				1-	SPACES	-29	---	30-		-2	30	10	3/4	0	0
0 3720 = SUB - TOTALS																
SUB - TOTALS = 3600																
PANELBOARD TOTAL LOAD = 7320 VA																
I = VOLT/AMPERE / VOLT = 31 AMP																
FEEDER: (4) 3 AWG (1) 4 AWG (6) IN 2" C																
FED FROM: DISTRIBUTION GUTTER																
REMARKS: 1. PROVIDE GROUNDING BAR KIT																
2. PROVIDE 8 SETS OF 2P/20A, 240 VOLTS ELECTRICALLY HELD LIGHTING CONTACTORS WITH AN HOA SWITCH IN NEMA 1 ENCLOSURE TO BE CONTROLLED BY TC AND PC TO CONTROL WALKWAY LIGHTS AND PARKING LIGHTS.																
3. SEQUENCE OF OPERATION TO BE PROVIDED BASED ON CITY OF MIAMI PARKS CRITERIA.																

VOLTAGE DROP: (AT FURTHEST POINT OF SERVICE FOR WALKWAY LIGHTING)

WIRE MATERIAL COPPER
 WIRE SIZE #10 AWG
 VOLTAGE 240 VOLTS
 PHASE AC SINGLE PHASE
 NUMBER OF CONDUCTORS SINGLE SET
 DISTANCE 1240 FT.
 LOAD CURRENT 1.06A
 VOLTAGE DROP 2.63A
 VOLTAGE DROP 1.10%
 VOLTAGE AT END OF RUN 237.37

VOLTAGE DROP: (AT FURTHEST POINT OF SERVICE FOR BASKETBALL LIGHTING)

WIRE MATERIAL COPPER
 WIRE SIZE #3 AWG
 VOLTAGE 240 VOLTS
 PHASE AC SINGLE PHASE
 NUMBER OF CONDUCTORS SINGLE SET
 DISTANCE 420 FT.
 LOAD CURRENT 9.58A
 VOLTAGE DROP 1.59A
 VOLTAGE DROP 0.66%
 VOLTAGE AT END OF RUN 238.41

DISTRIBUTION GUTTER LOAD

PANEL "SL" 7,320 VA = 30.5A
 TENNIS COURT LIGHTS 13,800 VA = 58.0A
 BASKETBALL LIGHTS 9,200 VA = 38.3A
 IRRIGATION BOOSTER PUMP (GHP) 3,000 VA = 8.3A
 SECURITY LIGHTS 6,038 VA = 25.2A
 TOTAL LOAD 39,358 VA = 164A PHASES A AND C.
 = 8.3 A PHASE B (HI-LEG)
 ELECTRICAL SERVICE PROVIDED = 250A AT 120 / 240V - 3PHASE, HI-LEG.

IRRIGATION PUMP VOLTAGE DROP:

WIRE MATERIAL COPPER
 WIRE SIZE #6 AWG
 VOLTAGE 230 VOLTS
 PHASE AC THREE PHASE
 NUMBER OF CONDUCTORS SINGLE SET
 DISTANCE 400 FT.
 LOAD CURRENT 9.6A
 VOLTAGE DROP 2.63A
 VOLTAGE DROP 1.14%
 VOLTAGE AT END OF RUN 227.37

BID SET
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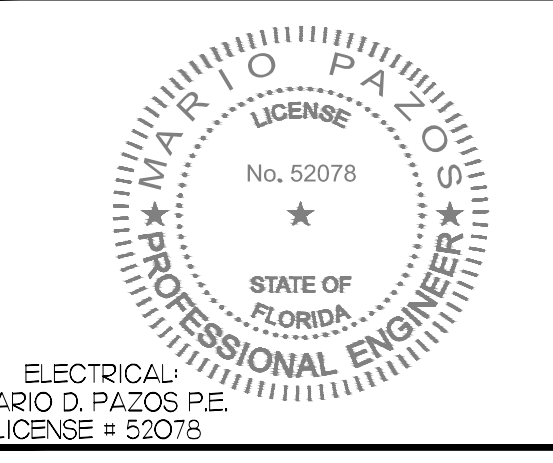


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 MARIO D. PAZOS P.E.
 LICENSE # 52078

PROJECT NUMBER: 09213010.43

PROJECT NAME & ADDRESS:

DOUGLAS PARK
 CORRECTIVE ACTION PLAN
 2795 SW 37 AVENUE
 MIAMI, FL

CLIENT NAME & ADDRESS:

CITY OF MIAMI
 CAPITAL IMPROVEMENTS PROGRAM
 444 SW 2ND AVENUE
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REV	DESCRIPTION	DATE
△	OWNER REVISION	11/23/15
△	OWNER REVISION	01/06/16
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SCALE: AS NOTED

FILE NAME:

DRAWN BY: A.P.

CHECKED BY: A.G.

DATE: OCTOBER 2015

DRAWING TITLE:

PANEL SCHEDULE
 AND DETAILS -
 ELECTRICAL

DRAWING NUMBER:

E5.00

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GENERAL STRUCTURAL NOTES

COORDINATION:

-COORDINATE ALL DIMENSIONS, ELEVATIONS & OPENINGS WITH ARCHITECTURAL DRAWINGS. REPORT ANY DISCREPANCIES TO OUR OFFICE.

-SEE ARCHITECTURAL DRAWINGS FOR SLAB FINISHES, DETAILS, AND EXACT LOCATION OF DEPRESSED SLAB AREAS AND FLOOR DRAINS.

OWNER, ARCHITECT, AND CONTRACTOR NOTE:

-IF OUR OFFICE WERE TO BE HELD RESPONSIBLE FOR THE STRUCTURAL ADEQUACY OF THE CONSTRUCTED BUILDING, WE WOULD NEED TO PERFORM A REVISION OF THE SHOP DRAWINGS AS WELL AS SITE INSPECTIONS FOR REINFORCEMENT.

APPLICABLE CODES:

-ALTHOUGH THE ENGINEER OF RECORD HAS STRIVED TO MEET ALL APPLICABLE CODES AND LOCAL ORDINANCE REQUIREMENTS, THE CONTRACTOR IS STILL RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE CODES AND ORDINANCES. IN THE EVENT OF CONFLICT OR OVERSIGHT IN THE DRAWINGS THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE ARCHITECT OR ENGINEER OF ANY CONFLICT OF DISCREPANCY ENCOUNTERED SO THAT APPROPRIATE REMEDIES MAY BE UNDERTAKEN.

DESIGN LOAD & CRITERIA					
DESIGN CODES	BUILDING CODES	FLORIDA BUILDING CODE (2014 EDITION) ASCE 7-10			
	CONCRETE	ACI 318 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.			
WIND	RISK CATEGORY	II			
	BASIC WIND SPEED (3 SECOND GUST)	V = 175 M.P.H.			
	EXPOSURE CATEGORY	"C"			
	DIRECTIONALITY FACTOR	Kd = 0.85			
GRAVITY	LOCATION	LIVE LOAD UNIFORM	CONCENTRATED	LIVE LOAD UNIFORM	CONCENTRATED
	BLEACHER	120 PSF		30 PSF	
	NO LIVE LOAD REDUCTION HAS BEEN USED. DEAD LOAD IN ADDITION TO FLOOR SYSTEM LOADS. NO STRESS INCREASE HAS BEEN USED.				

TERMITE PROTECTION:

-AS PER F.B.C. 105.11 BUILDING COMPONENTS AND BUILDING SURROUNDINGS REQUIRED TO BE PROTECTED FROM TERMITE DAMAGE IN ACCORDANCE WITH 1503.6, 2304.11, 2603.9, OR REQUIRED TO HAVE CHEMICAL SOIL TREATMENT IN ACCORDANCE WITH 1816 SHALL NOT BE COVERED OR CONCEALED UNTIL THE RELEASE FROM THE BUILDING OFFICIAL HAS BEEN RECEIVED.

-ALL BUILDINGS SHALL HAVE PRE-CONSTRUCTION TREATMENT PROTECTION AGAINST SUBTERRANEAN TERMITES AS PER F.B.C. 1816 A CERTIFICATE OF COMPLIANCE SHALL BE ISSUED TO THE BUILDING DEPARTMENT BY THE LICENSED PEST CONTROL COMPANY THAT CONTAINS THE FOLLOWING STATEMENT: "THE BUILDING HAS RECEIVED A COMPLETE TREATMENT FOR THE PREVENTION OF SUBTERRANEAN TERMITES. TREATMENT IS IN ACCORDANCE WITH THE RULES AND LAWS ESTABLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES".

FOUNDATIONS:

-CONTRACTOR MUST VERIFY THE ACCURACY OF ALL EXISTING CONDITIONS WHICH MAY IMPACT THE AMOUNT AN SEQUENCE OF THE WORK. -THE GEOTECHNICAL REPORT HAS BEEN PREPARED BY NV5 (KACO), DATED JULY 15, 2015.

-ALL FOUNDATIONS SHALL BE INSPECTED TO CONFIRM THE ALLOWABLE SOIL BEARING PRESSURE. THE SOILS ENGINEER PRIOR TO CONSTRUCTING CONCRETE FORMS AND/OR PLACING REINFORCING STEEL. ANY EXCESS OR SOFT MATERIAL AS DETERMINED BY THE SOILS ENGINEER SHALL BE REMOVED AND REPLACED WITH CLEAN GRAVEL COMPACTED TO 95% (ASTM D-1557 OR ASHTO T-180) OR A FOUR SACK PORTLAND CEMENT LEAN CONCRETE MIX.

-THE CONTRACTOR SHALL, PRIOR TO BEGINNING GRADING AND FOUNDATION EXCAVATION WORK, READ THE SOILS REPORTS. IF THE CONTRACTOR, DURING THE COURSE OF THIS SITE WORK, DISCOVERS ANY SOIL CONDITION WHICH IS NOT CONSISTENT WITH THE SOILS REPORT, HE SHALL NOTIFY THE ARCHITECT/ENGINEER.

-ALL FOUNDATIONS SHALL BE 1'-6" BELOW THE LOWEST EXISTING GRADE.

PAD PREPARATION:

-GEOTECHNICAL SITE PREPARATION FOR CONSTRUCTION SHOULD CONSIST OF REMOVAL OF ALL EXISTING STRUCTURES, FOUNDATIONS, PAVEMENTS, UNDERGROUND UTILITIES, AND OTHER DELETERIOUS MATERIALS WITHIN PROPOSED FOUNDATION FOOTPRINTS PLUS A FIVE-FOOT PERIMETER WHERE POSSIBLE. ANY VOIDS CREATED BY THE REMOVAL OF THESE DELETERIOUS MATERIALS SHOULD BE PROPERLY BACKFILLED AS DESCRIBED IN THE PARAGRAPHS BELOW.

-AFTER SITE PREPARATION AS DESCRIBED ABOVE, AREAS FOR STRUCTURES THAT WILL HAVE SLABS ON GRADE OR PAVEMENTS (INCLUDING THE WALKWAYS) SHOULD BE PROOF ROLLED WITH AT LEAST 5 OVERLAPPING PASSES OF A 20-TON ROLLER AS IT OPERATES AT ITS MAXIMUM VIBRATIONAL FREQUENCY. THE PROOF ROLLING SHOULD BE OBSERVED BY NV5 TO IDENTIFY AND MITIGATE ANY WEAK SUBGRADE CONDITIONS EVIDENCED BY YIELDING OR RUTTING AT THE WHEELS OF THE ROLLER. PROOF-ROLLING SHOULD INCLUDE PLANNED DEVELOPEMENT FOOTPRINTS PLUS A FIVE-FOOT PERIMETER.

-WE DO NOT ANTICIPATE SIGNIFICANT FILLING FOR THIS PROJECT. NONETHELESS, IF REQUIRED FILL SOILS SHOULD CONSIST OF EITHER INORGANIC, NON-PLASTIC SAND HAVING LESS THAN 10 PERCENT MATERIAL PASSING THE NO. 200 SIEVE, OR CRUSHED LIMESTONE WITH A MAXIMUM ROCK SIZE OF SIX (6) INCHES. IN PARTICULAR, FILL SOILS PLACED WITHIN THE UPPER 12 INCHES OF THE SUBGRADE OF BUILDING SLABS ON GRADE SHOULD CONSIST OF EITHER SAND WITH LESS THAN 10 PERCENT PASSING THE NUMBER 200 SIEVE, OR CRUSHED LIMESTONE WITH A MAXIMUM PARTICLE SIZE OF THREE INCHES BASED ON OUR BORING DATA. THE NEAR-SURFACE SANDY MATERIALS SHOULD SATISFY THE FILL CRITERIA. HOWEVER GIVEN THE DEBRIS FOUND IN THE LAYER 1 SOILS, WE ANTICIPATE THAT SIGNIFICANT SORTING AND POSSIBLY MOISTURE-CONDITIONING WILL BE REQUIRED PRIOR TO REUSE. IN ANY EVENT, REPRESENTATIVE SAMPLES OF THE FILL SOILS SHOULD BE COLLECTED FOR CLASSIFICATION AND COMPACTION TESTING. THE MAXIMUM DRY DENSITY, OPTIMUM MOISTURE CONTENT, GRADATION, AND PLASTICITY SHOULD BE DETERMINED. THESE TESTS ARE NEEDED FOR QUALITY CONTROL OF THE COMPACTED FILL.

-FILL SOILS SHOULD BE PLACED WITH LOOSE LIFT THICKNESSES OF NOT MORE THAN 12-INCHES. MOISTURE-CONDITIONED TO WITHIN TWO (2) PERCENT OF THE OPTIMUM MOISTURE CONTENT BASED ON ASTM 0-1557, AND COMPACTED TO A MINIMUM 95 PERCENT RELATIVE COMPACTION. ONE TEST SHOULD BE PERFORMED FOR EACH 2,500 SQUARE FEET OF FILL AREA PER LIFT OF FILL SOILS. IF DURING THE COMPACTION PROCESS FILL SHOWS EVIDENCE OF YIELDING UNDER THE WEIGHT OF THE ROLLER, IT SHOULD BE REMOVED AND REPLACED WITH PROPERLY COMPACTED GRANULAR FILL AS DESCRIBED HEREIN. FILL PARTICLES EXCEEDING ONE (1) INCH IN SIZE SHOULD NOT BE ALLOWED TO NEST WITHIN THE FILL.

-THE VIBRATIONS PRODUCED BY THE OPERATION OF THE ROLLER/COMPACTOR SHOULD BE MONITORED FOR POTENTIAL ADVERSE EFFECT ON ADJACENT EXISTING STRUCTURES, PAVEMENTS, AND UTILITIES. IF EXISTING FOOTING AND NEARBY STRUCTURES WILL BE AFFECTED BY THE VIBRATION OF THE COMPACTOR, THE COMPACTION PROCEDURE MAY REQUIRE MODIFICATION AS APPROVED BY THE GEOTECHNICAL ENGINEER.

-COMPACTION TESTS SHALL BE PERFORMED EVERY 2,500 SF. SAMPLES OF THE SITE AND PROPOSED FILL MATERIAL SHALL BE COLLECTED AND TESTED TO DETERMINE THE CLASSIFICATION AND COMPACTION CHARACTERISTICS.

CONCRETE:

-ALL STRUCTURAL CONCRETE HAS BEEN DESIGNED IN ACCORDANCE WITH THE ACI 318 LATEST EDITION AND THE BUILDING CODE.

-THE CONCRETE REQUIREMENTS ARE:
A. CEMENT SHALL BE TYPE I OR II CONFORMING TO ASTM C150.
B. FINE AND COURSE AGGREGATES SHALL CONFORM TO ASTM C33.

-COMPRESSIVE STRENGTH AT 28 DAYS:

FOOTINGS: 3000 PSI

-TEST: A MIN. OF 5 CONCRETE SPECIMENS SHALL BE TAKEN FROM EACH 50 CU. YD. OR PORTION THEREOF SPECIMENS SHALL BE TESTED ACCORDING TO A.S.T.M. C-39, ONE AT 3, ONE AT 7, AND 3 AT 28 DAYS.

-COVER:

CONCRETE DEPOSITED AGAINST THE GROUND:..... 3"
FORMED CONCRETE IN CONTACT WITH THE GROUND:..... 2"

REINFORCING STEEL:

-REINFORCING BARS CONFORMING TO A.S.T.M. A-615 GRADE 60, INCLUDING COLUMN AND BEAM TIES.

-WELDED FIRE FABRIC CONFORMING TO A.S.T.M. A-185 AND SUPPORTED ON SLAB BOLSTERS SPACED AT 3'-0" O/C.

-REINFORCING BARS REQUIRED TO BE WELDED SHALL CONFORM TO THE REQUIREMENTS OF ASTM A706 GRADE 60. WELDING OF REINFORCING OTHER THAN SPECIFIED IS PROHIBITED.

-MECHANICAL CONNECTORS SHALL BE IN ACCORD WITH ACI 439-3R-83.

-FABRICATION AND DETAILING ACCORDING TO A.C.I.-315.

-ALL ACCESSORIES TO HAVE UPTURNED LEGS AND BE PLASTIC DIPPED AFTER FABRICATION. THE CONTRACTOR SHALL INCLUDE IN HIS BASE BID THE COST

-EXTRA STOCK: OF 5000 LBS. OF ADDITIONAL REINFORCING STEEL, INCLUDING FABRICATION, BENDING, FURNISHING AND PLACING. THIS EXTRA STOCK SHALL BE FURNISHED AND USED FOR SPECIAL CONDITIONS AS DIRECTED BY THE ARCHITECT, THE ARCHITECTS AGENT, OR THE OWNERS CONSTRUCTION SUPERVISOR. THE PRICE OF ALL UN-USED EXTRA STOCK SHALL BE CREDITED TO THE OWNERS ACCOUNT.

SLAB ON FILL (PLACED ACCORDING TO ACI 302)

-JOINTS:

-ISOLATION JOINTS MUST BE USED AT JUNCTIONS WITH WALLS AND COLUMNS. USE 1/2" THICK PREMOLDED JOINTS FULL DEPTH OF SLAB. CONTROL JOINTS PLACED AT CENTERLINE OF COLUMN LINES PROVIDE INTERMEDIATE JOINTS IF COLUMN SPACING IS GREATER THAN 30'. IN SIDEWALKS PROVIDE TOOLED JOINTS SPACED AT INTERVALS EQUAL TO THE WIDTH OF THE SLAB.

4' & 5' SLABS:.....1" DEEP TOOLED

-JOINTS MUST BE SAWED BEFORE 24 HOURS AFTER CONCRETING. CONSTRUCTION JOINTS MUST BE PLACED IN THE SLAB WHERE BUILDING EXPANSION JOINTS ARE SHOWN AND WHERE CONTROL JOINTS ARE SHOWN OR AS PER FOLLOWING:

WHEN CONCRETING AND OPERATING ARE CONCLUDED FOR THE DAY, CONSTRUCTION JOINTS SHALL BE FORMED WITH BURKE KEVED KOLD METAL JOINT FORM OR APPROVED EQUAL.

-VAPOR BARRIERS:

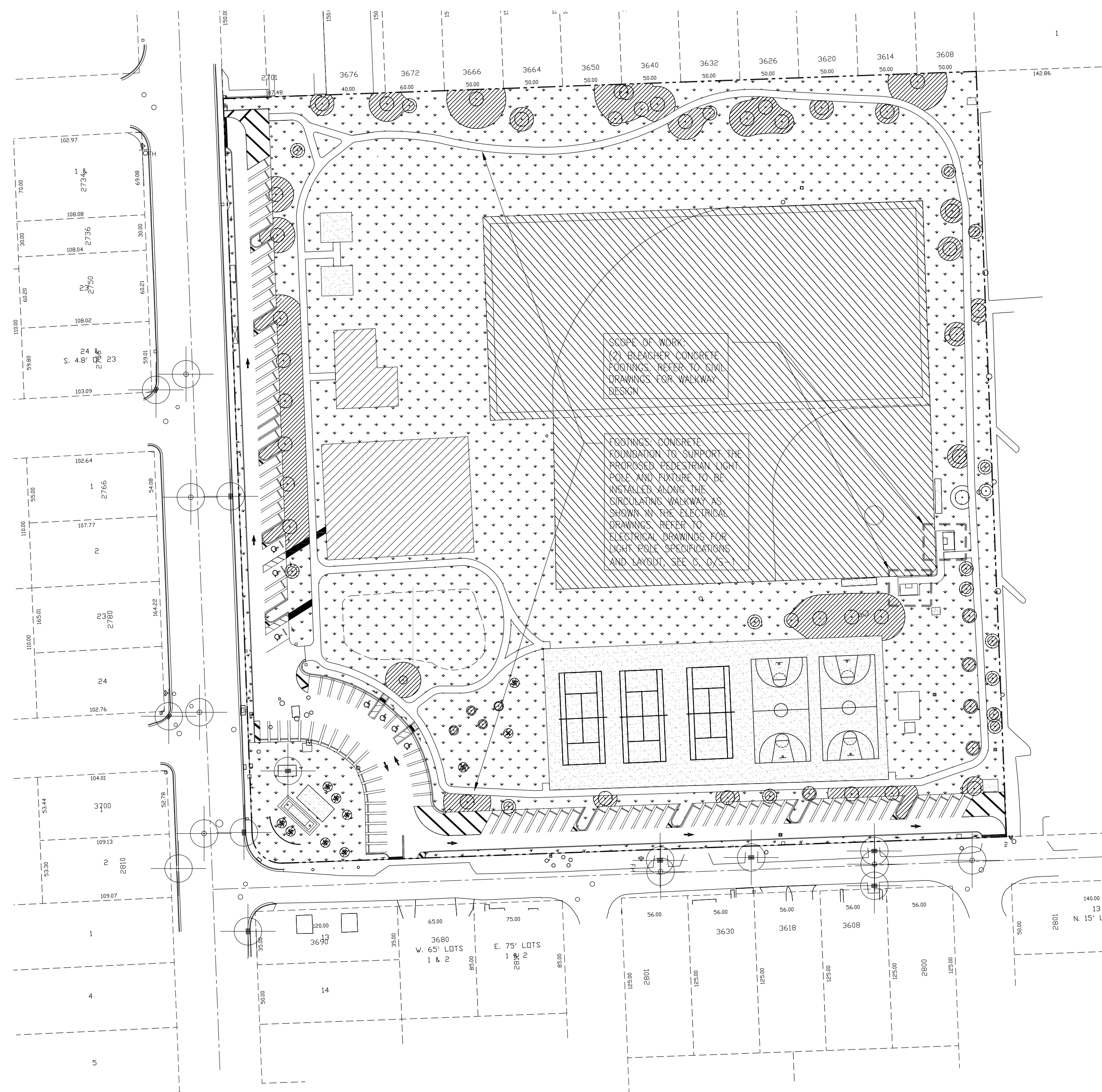
WATERPROOF MEMBRANES NOT LESS THAN 6-MIL POLYVINYL CHLORIDE(OVERLAPPED 6" AT JOINTS) WITH A PERMEANCE OF LESS THAN 0.3% PERMS IN ACCORDANCE WITH A.S.T.M. E-98 SHALL BE PROVIDED UNDER INTERIOR SLAB, WHERE NO VAPOR BARRIER IS USED THE SUBGRADE MUST BE DAMPENED WITH WATER IN ADVANCE OF CONCRETING NO FREE WATER STANDING ON THE SUBGRADE NOR ANY MUDDY OR SOFT SPOT IS PERMITTED.

-ANY STRUCTURAL MEMBER PENETRATING SLAB ON FILL IS TO BE 1/2" PRE-MOLDED JOINT FILLER COMPLYING WITH A.S.T.M. D-1752, TYPE I.

-FINISHING:

NO PREMATURE FINISHING SHALL BE ALLOWED. IMMEDIATE FOLLOWING FLOATING TROWELING WITH STEEL TROWELS SHOULD BE COMMENCED IF REQUIRED BROOMING SHALL BE AFTER THE STEEL TROWELING OPERATION.

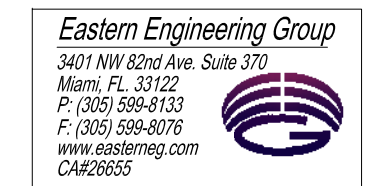
-SLAB FINISHES: (UNLESS OTHERWISE NOTED BY THE ARCHITECT)
OUTSIDE SLAB:.....BROOMED



A KEY PLAN AND SCOPE OF WORK
S-0 SCALE: 3/16"=1'-0"

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SUBCONSULTANT:



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GONZALO PAZ, P.E.
FL LICENSE NO. 60734
EASTERN ENGINEERING GROUP

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CITY OF MIAMI
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REV	DESCRIPTION	DATE

SCALE: AS NOTED

FILE NAME:

DRAWN BY: H.P.

CHECKED BY: G.P.

DATE: OCTOBER 2015

DRAWING TITLE:

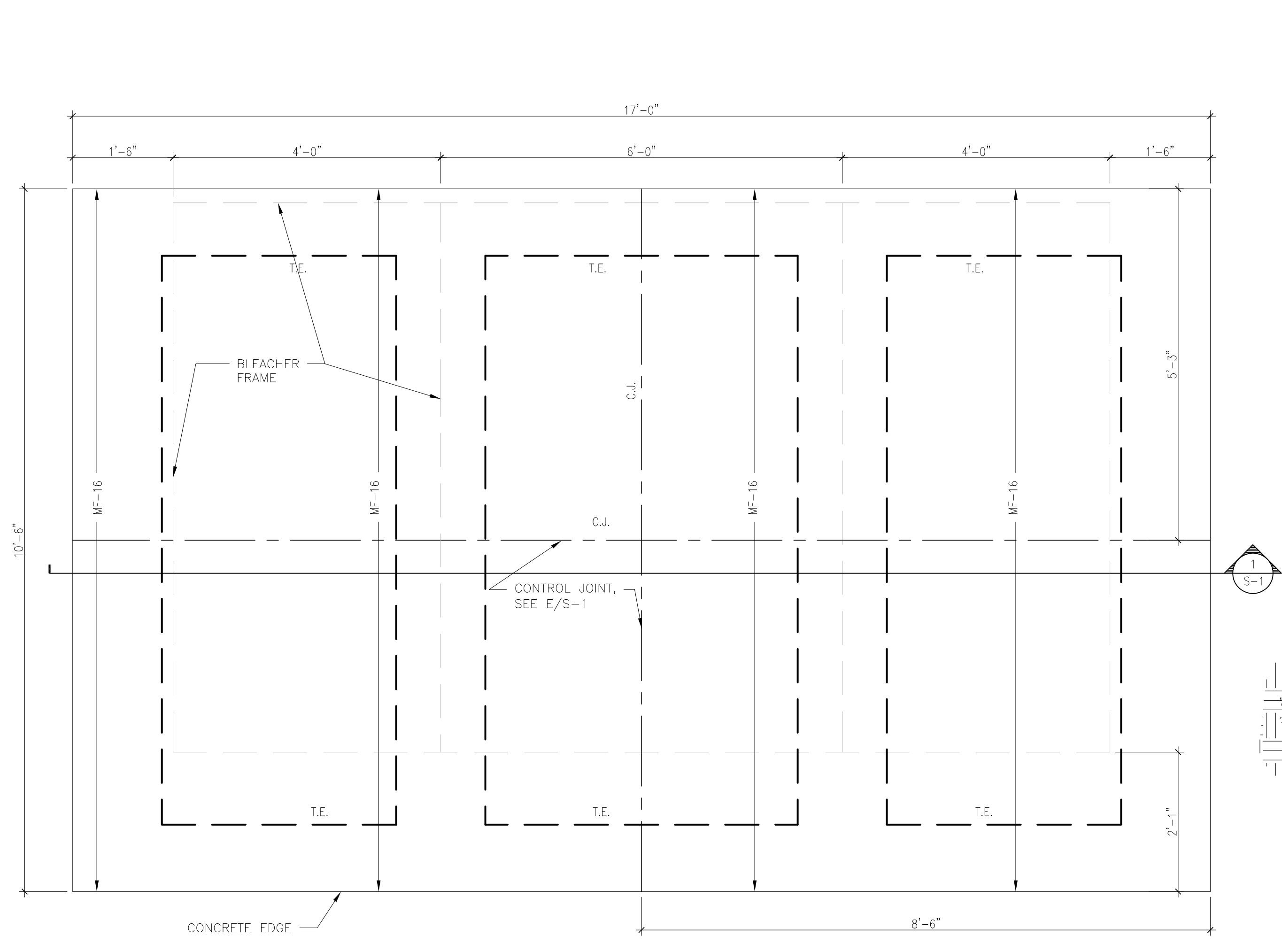
KEY PLAN AND GENERAL NOTES

DRAWING NUMBER: **S-0**

SHEET 1 of 2

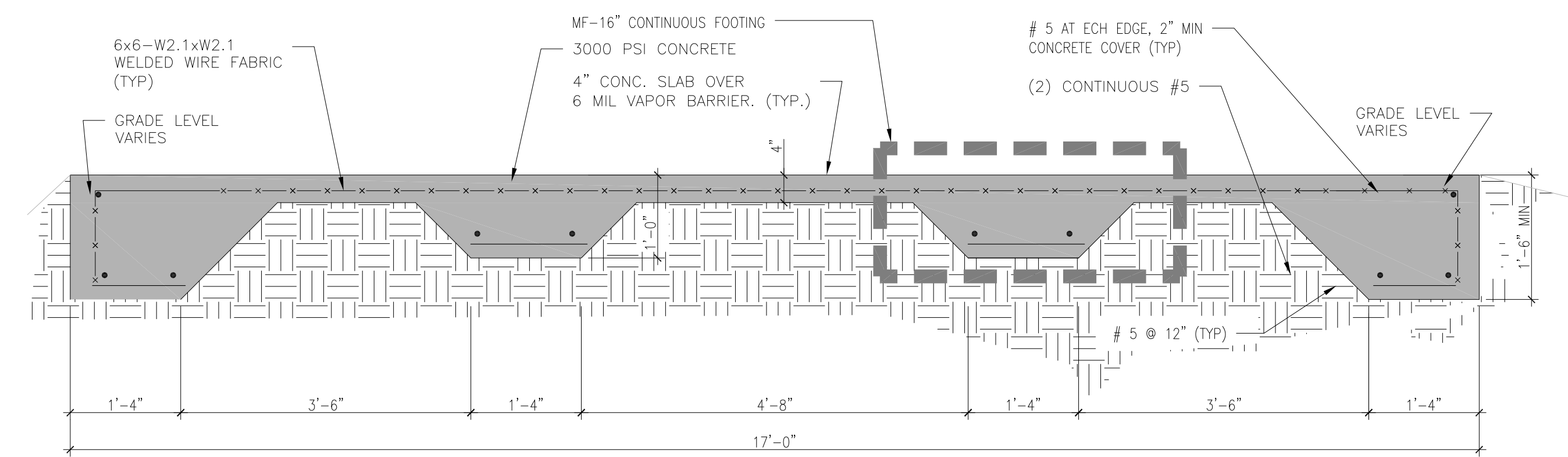
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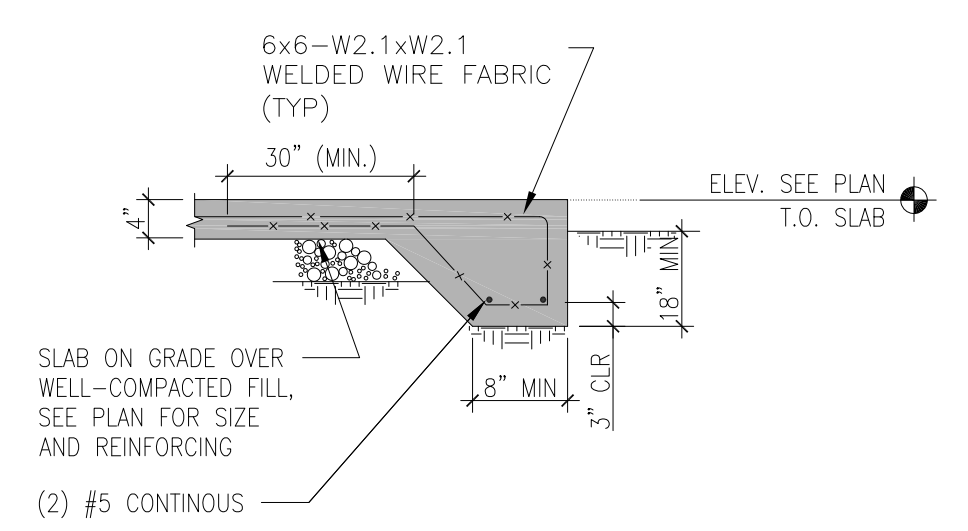


A BLEACHER FOOTING PLAN VIEW
S-1 SCALE: 3/4"=1'-0"

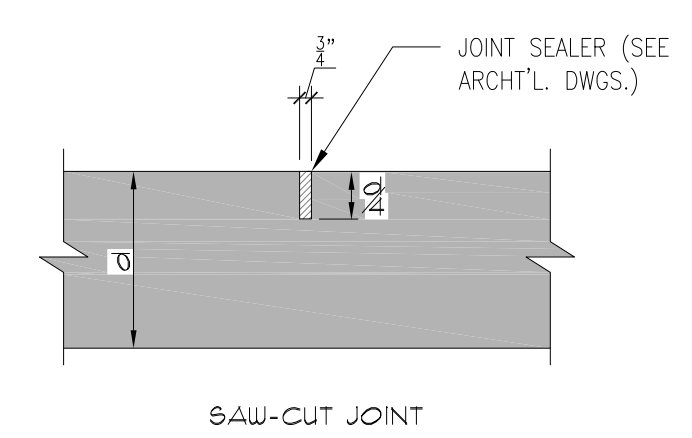
NOTE: G.C. MUST VERIFY ALL DIMENSIONS ON FIELD BEFORE BEGINNING ANY WORK



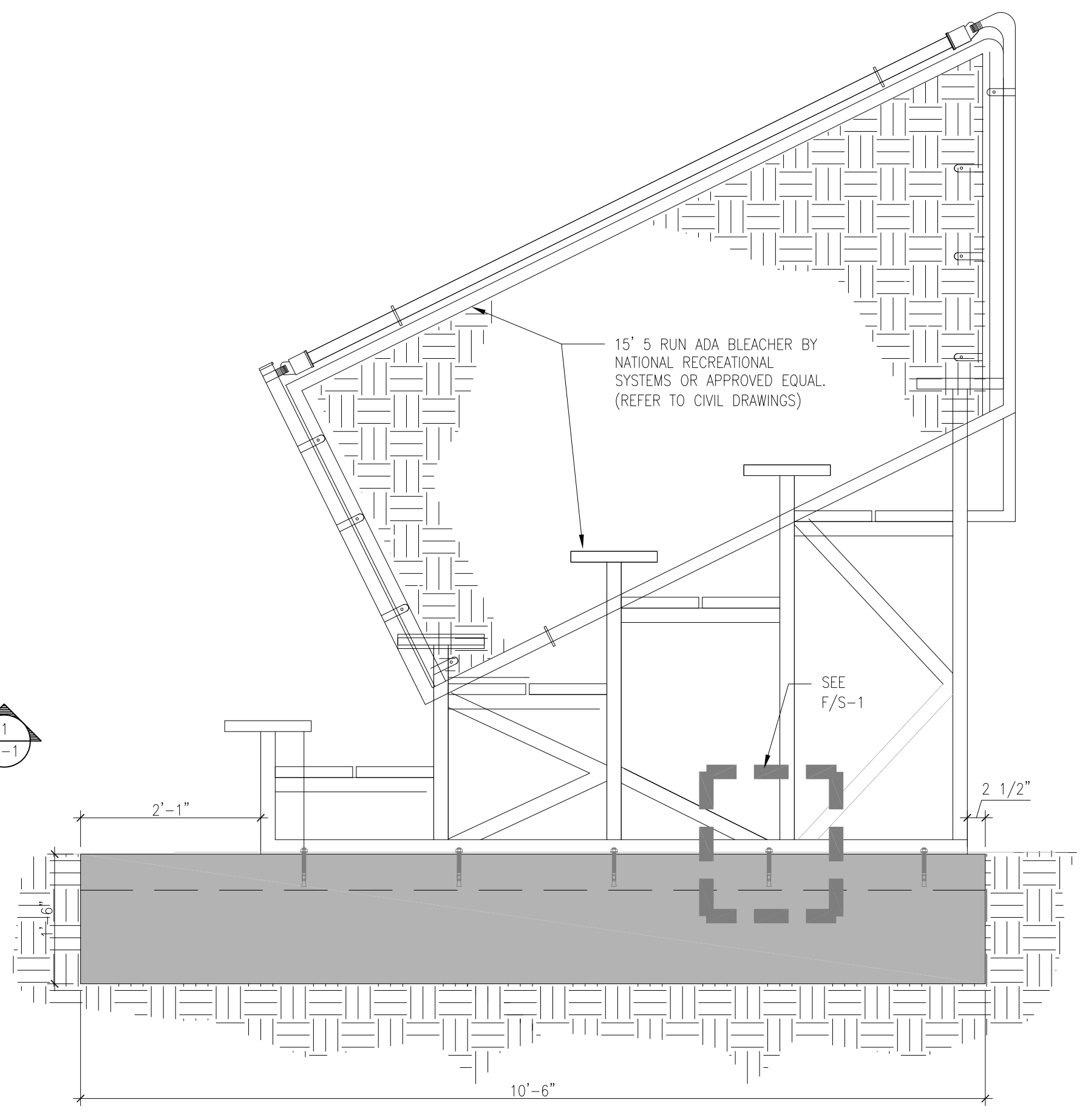
1 SECTION
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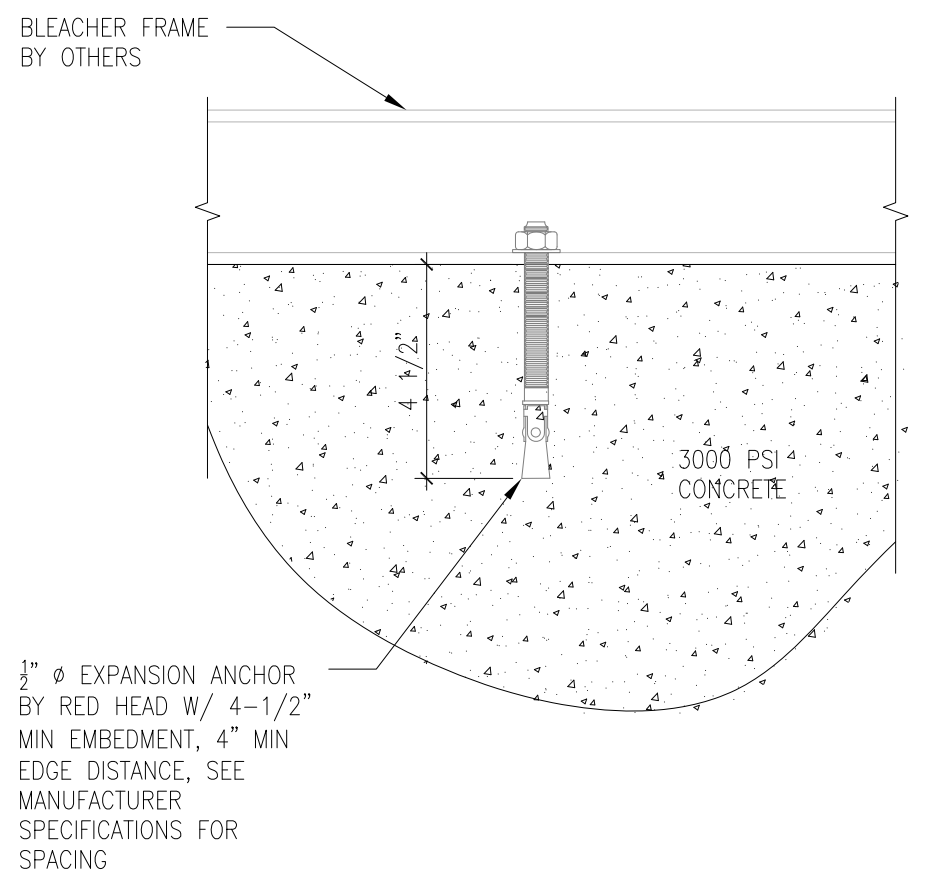
D TYP. THICKENED EDGE DETAIL
S-1 SCALE: 1/2"=1'-0"



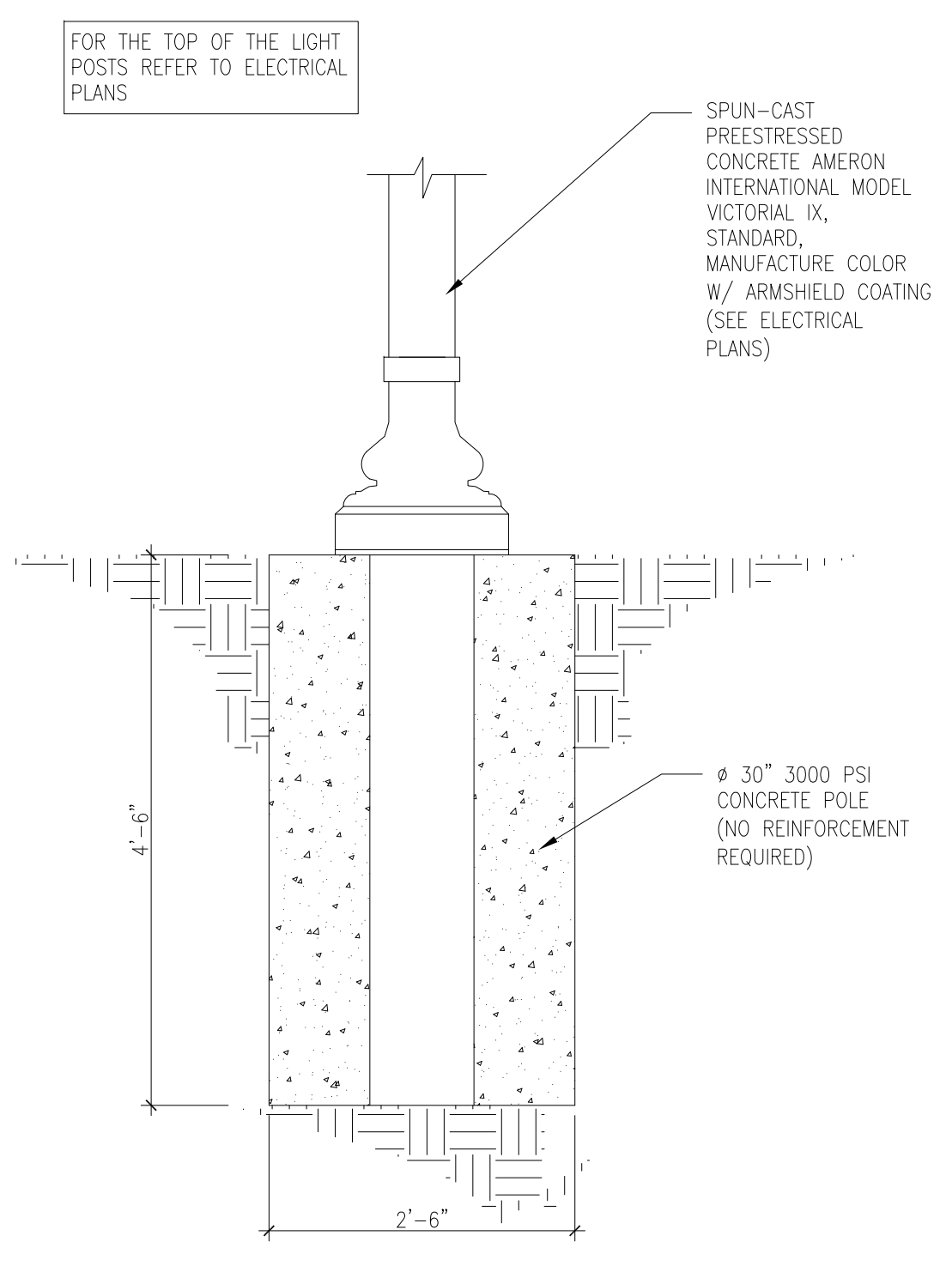
E CONTROL JOINT DETAIL
S-1 SCALE: 3/4"=1'-0"



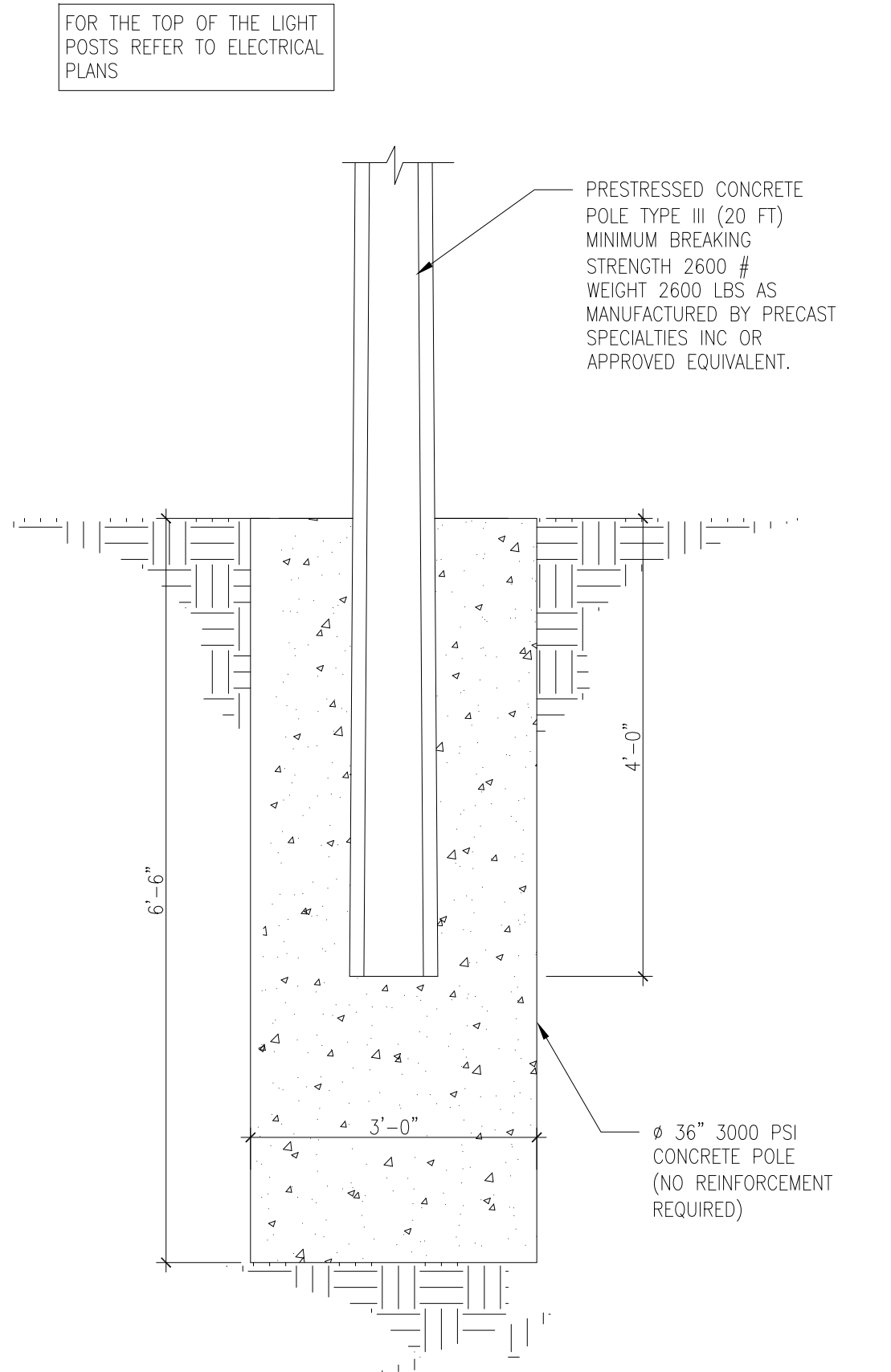
B ELEVATION
S-1 SCALE: 3/4"=1'-0"



F DETAILS
S-1 SCALE: 3"=1'-0"



C CONCRETE PEDESTRIAN LIGHTING FOUNDATION
S-1 SCALE: 3/4"=1'-0"



G SQUARE CONCRETE LIGHTING FOUNDATION
S-1 SCALE: 3/4"=1'-0"

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DATE: OCTOBER 2015

DRAWING TITLE:

PLAN VIEW, SECTION AND DETAILS

DRAWING NUMBER: S-1

SHEET 1 of 2