DOUGLAS PARK CORRECTIVE ACTION PLAN

PREPARED FOR:

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



COMMISSION:

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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 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892 WWW.SCSENGINEERS.COM

SCS PROJECT NO. 09213010.43

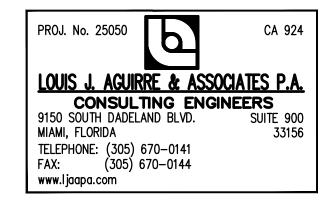
2795 SW 37TH AVENUE MIAMI, FLORIDA 33133 **DECEMBER 2015**



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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.
- THE CONTRACTOR SHALL NOTE THAT A PORTION OF THE PROPOSED Β. 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")
- ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE STANDARDS Β. AND SPECIFICATIONS OF MIAMI-DADE COUNTY, CITY OF MIAMI, AND FLORIDA DEPARTMENT OF TRANSPORTATION.
- 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.
- ALL ELEVATIONS SHOWN ON THE CONSTRUCTION DRAWINGS ARE BASED D. 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. REMOVE AND RECONSTRUCT PARKING LOT WITH FIRST LIFT OF 5.
- ASPHALT. 6. INSTALL BENTOLINER EC GEOSYNTHETIC CLAY LINER WHERE
- SPECIFIED. 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. 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.
- ERECT TEMPORARY PROTECTION, SUCH AS WALKS, FENCES, BARRIERS, RAILINGS, ETC. WHERE REQUIRED BY AUTHORITIES HAVING JURISDICTION.
- 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.
- DEMOLISH CONCRETE IN SMALL SECTIONS. CUT CONCRETE AT JUNCTURES 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.
- REMOVAL, DEMOLITION, HAULING, AND DISPOSAL SHALL COMPLY WITH REGULATIONS BY F.D.E.P., E.P.A., AND ANY OTHER AUTHORITY HAVING JURISDICTION.
- 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-CONSTRUCITON 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
 - 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.
- F 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.
- 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 A 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.
- THE CONTRACTOR SHALL STOCKPILE CONTAMINATED SOIL IN DESIGNATED ON-SITE LOCATION(S) AND USE A MINIMUM 10 MIL IMPERMEABLE LINER FOR CONTAINMENT.
- 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.
- 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.
- 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.
- 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.
- THE CONTRACTOR SHALL MAKE HIS OWN ESTIMATE ON THE VOLUME OF D. MATERIAL ACTUALLY REQUIRED TO OBTAIN THE CROSS SECTIONS OR GRADES AS SHOWN ON THE PLANS.
- 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.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING APPROPRIATE SAFETY PRECAUTIONS DURING EXCAVATION AND TRENCHING OPERATIONS AS REQUIRED BY THE "TRENCH SAFETY ACT".
- THIS WORK SHALL INCLUDE THE EXCAVATION OF WHATEVER SUBSTANCES G. 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.
- 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.
- 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.
- 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.
- 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.
- 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 APPURTEN INSTALLED. THE TRENCH OR OPENING SHALL BE MATERIAL IN CONFORMANCE WITH THE SPECIFICATION.
- O. IN AREAS WHERE PAVEMENTS ARE TO BE CONSTRUCT THE REMAINDER OF THE TRENCH SHALL BE PLACED (COMPACTED THICKNESS) AND SHALL BE COMPACTED MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99. BE RESPONSIBLE FOR CORRECTING DAMAGE FROM S BACKFILLED AREAS WHETHER UNDER THE PAVEMENT O
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING BARRIER AND PROTECTIVE STEEL PLATE COVER TRENCHES.
- Q. SOIL BORING INFORMATION WILL BE PROVIDED TO THE SOIL BORING DATA PROVIDED IS FOR THE CONTRACT THE ENGINEER DOES NOT MAKE ANY REPRESENT. EXISTING SUBSOIL CONDITIONS. IT IS THE CONTRACTO TO PERFORM ADDITIONAL SOIL BORINGS TO VERI UNSUITABLE MATERIAL ON-SITE.
- SEE SOILS EVALUATION OF THE PROJECT AREA R INVESTIGATION REPORT TITLED "GEOTECHNICAL ST DOUGLAS PARK IMPROVEMENTS, 2795 SW 37 AVENUE F DECEMBER 2015. PROJECT No. 14774 (PHONE 305-666-3

VIII. PAVING AND GRADING NOTES

- A. UNDERGROUND UTILITIES SHALL BE COMPLETED OR SL BEFORE ANY PAVEMENT CONSTRUCTION BEGINS.
- B. ALL EXISTING PAVEMENT, CUT OR DAMAGED BY CONST PROPERLY RESTORED AT THE CONTRACTOR'S EXPENSE
- C. CLEAN FILL SHALL BE SOURCED FROM A NATIVE ROCK M
- D. ALL PAVEMENT SUBGRADE MATERIAL SHALL BE CC MAXIMUM DENSITY AT OPTIMUM MOISTURE, AASHTO AND SHALL CONFORM TO THE REQUIREMENTS OF F.D.C SECTION 120. THE TEST RESULTS SHALL BE ACCEPTE ENGINEER PRIOR TO PLACEMENT OF BASE MATERIAL.
- IF THE PLANS INDICATE A LIMEROCK BASE, THE CONS MATERIAL FOR THE LIMEROCK BASE SHALL CO REQUIREMENTS OF F.D.O.T. SPECIFICATIONS, SECTION BASE SHALL BE COMPACTED TO 98% MAXIMUM DE MOISTURE. AASHTO T-180, METHOD "D", THE ENGINEER LOCATION AND NUMBER OF DENSITY TESTS REQI ENGINEER REQUIRE DENSITY TESTS AT 50' C RESTORATIONS (MINIMUM ONE (1) TEST PER TRENCH). APPLICATIONS TESTING SHALL BE COMPLETED EVER' MINIMUM TWO (2) TEST LOCATIONS, WHICH EVER IS NOTED DIFFERENTLY IN THE PLANS. THE TEST R ACCEPTED BY THE CITY AND ENGINEER PRIOR TO AF PRIME AND TACK COATS.
- THE PRIME AND TACK COAT CONSTRUCTION AND MA PRIME AND TACK COATS SHALL CONFORM TO THE F.D.O.T. STANDARD SPECIFICATIONS. SECTION 300. TH COATS SHALL BE APPLIED PRIOR TO CONSTRUCTION SURFACE COURSE AND SHALL BE SANDED AND ROLL WITH SECTION 300. APPLICATION RATES SHALL BE LIMEROCK BASE AND 0.25 GAL/SY FOR SHELLROCK BASE
- ASPHALTIC CONCRETE SURFACE COURSE SHALL BE G PLANS. THE MATERIALS FOR THE ASPHALT CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF F SPECIFICATIONS, SECTION 331.
- AMOUNT OF RECLAIMED ASPHALT PAVEMENT (RAP) MA Η. MIX SHALL BE LIMITED TO A MAXIMUM OF 20 PERCENT BY AGGREGATE AND CONFORM TOALL REQUIREMENTS EDITION OF THE FLORIDA DEPARTMENT OF TRANS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CC
- THE MATERIAL TO BE USED AS A STABILIZER SHALL BEARING VALUE SUCH AS, SAND-CLAY, GROUND LIM LIMEROCK, OYSTER SHELL, COQUINA SHELL, ROCK SC OTHER MATERIAL WHICH IS SUITABLE FOR STABILIZA NOT BE USED AS STABILIZING MATERIAL.
- ALL GRADES SHOWN REFER TO FINISHED ASPHALT OTHERWISE NOTED.
- MATERIAL HAVING A PLASTICITY INDEX AT MORE THAN GREATER THAN 40 SHALL NOT BE USED. ALL MA STABILIZING THE ROADBED SHALL PASS A 3-1/2 INCH RIN
- WHERE THE BEARING VALUE OF THE EXISTING SUBG WITHOUT ADDITION OF STABILIZING MATERIAL, THE SU SCARIFIED AND DICED, HARROWED, BLADED, OR TILLE BOULDERS, ROOTS, ETC, TO ASSURE UNIFORMITY AND OF MATERIAL TO THE FULL WIDTH AND DEP STABILIZATION. THE COMPACTED SUBGRADE SHALL LINES, GRADES AND CROSS-SECTION SHOWN ON THE PI
- M. CONTRACTOR SHALL SAW CUT EXISTING PAVEMENT REMOVAL OF EXISTING PAVEMENT AND WHEN CONSTRUCTION MEETS EXISTING PAVEMENT. MEET ALSO MEAN SAW CUT AND MATCH.
- N. THE SUBGRADE TO BE STABILIZED SHALL BE RECOMMENDED IN THE GEOTECHNICAL STUDY PROVID DECEMBER 17, 2015.
- O. PRIOR TO THE BEGINNING OF STABILIZING OPERATION STABILIZED SHALL HAVE BEEN CONSTRUCTED TO AN THAT UPON COMPLETION OF STABILIZING OPERATIONS STABILIZED SUBGRADE SHALL CONFORM TO THE LI CROSS-SECTION SHOWN IN THE PLANS. PRIOR TO THE ADDITIVE STABILIZING MATERIAL THE SURFACE OF THI ENGINEERING CONTROL SHALL BE BROUGHT TO A PLA PARALLEL TO THE PLANE OF THE PROPOSED FINISHED S
- P. THE STABILIZING MATERIAL SHALL BE APPLIED IN SU NECESSARY TO PRODUCE THE REQUIRED BEARING INCORPORATED WITH THE SUBGRADE BY FLOWING, D BLADING OR MIXING WITH ROTARY TILLERS UNTIL THE ARE OF A UNIFORM BEARING VALUE FOR THE FULL WI THE COURSE BEFORE COMPACTION, REGARDLESS OF BEARING VALUE. ALL MATERIALS IN THE STABILIZING NOT PASS A 3-1/2" RING SHALL BE REMOVED OR BROK NOT LARGER THAN 3-1/2 INCHES.

ANCES HAVE BEEN BACKFILLED WITH		SCS ENGINEER STEARNS, CONRAD AND SCHM CONSULTING ENGINEERS, IN 7700 N. KENDALL DRIVE, SUITE 300, MIAMI,	IDT C. FL 33156
ED OVER THE PIPE.		PH. (305) 412-8185 FAX. (305) 412-810 CERTIFICATE OF AUTHORIZATION NO. 00	5 FL
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563)		PROFESSIONAL SEAL:	
SLEEVING PROVIDED			
RUCTION, SHALL BE			
 /INING QUARRY.		PETER J DUENO, P.E. FL LICENSE NO. 73781	
DMPACTED TO 98% T-180, METHOD "D"		SCS ENGINEERS	
D.T. SPECIFICATIONS, D BY THE CITY AND		PROJECT NUMBER: 09213010.43	
TRUCTION AND THE ONFORM TO THE 230 THE LIMEROCK		PROJECT NAME & ADDRESS:	
230. THE LIMEROCK NSITY AT OPTIMUM SHALL SPECIFY THE			
UIRED. CITY AND).C. FOR TRENCH		DOUGLAS PAR	K
FOR THE REMAINING Y 10,000 SF OR AT		CORRECTIVE ACTION PL 2795 SW 37 AVE	AN
GREATER, UNLESS ESULTS SHALL BE PPLICATION OF THE		MIAMI, FL	
ATERIALS FOR THE REQUIREMENTS OF			
IE PRIME AND TACK N OF THE ASPHALT ED IN ACCORDANCE		CLIENT NAME & ADDRESS:	
E 0.15 GAL/SY FOR E. AS SHOWN ON THE E SURFACE COURSE F.D.O.T. STANDARD		CITY OF MIAMI	
TERIAL USED IN THE		CAPITAL IMPROVEMENTS PRO 444 SW 2ND AVENUE	
Y WEIGHT OF TOTAL S OF THE LATEST SPORTATION (FDOT) DNSTRUCTION".		MIAMI, FLORIDA 33130 REV DESCRIPTION	DATE
- BE SOIL OF HIGH IESTONE, CRUSHED CREENINGS, OR ANY ATION. MUCK SHALL		$\begin{array}{c c} & \\ \hline \\$	
PAVEMENT UNLESS		$\begin{array}{c} \bigtriangleup \\ \frown \\ \frown \\ \frown \end{array}$	
10 OR A LIQUID LIMIT TERIAL USED FOR			
NG. RADE IS ADEQUATE			
UBGRADE SHALL BE D FOR REMOVAL OF		SCALE: AS NOTED	
THOROUGH MIXING TH OF REQUIRED CONFORM TO THE		FILE NAME: C-1 NOTES_SPEC	C.DWG
LANS. AT THE LIMITS OF		DRAWN BY: JDR	
NEW PAVEMENT AND MATCH SHALL		CHECKED BY: PJD	
E PROCESSED AS DED BY NV5 DATED		DATE: DECEMBER 2	015
IS, THE AREA TO BE N ELEVATION SUCH		DRAWING TITLE:	
S, THE COMPLETED INES, GRADES AND SPREADING OF ANY			
E ROADBED AND/OR CE APPROXIMATELY SURFACE.		NOTES AND	
CH QUANTITY AS IS /ALUE. IT SHALL BE		SPECIFICATIONS	
ICING, HARROWING, E MIXED MATERIALS	BID SET		
DTH AND DEPTH OF THE CHARACTER OR COURSE THAT WILL	NOT FOR CONSTRUCTION	DRAWING NUMBER:	
EN DOWN TO A SIZE	Always call 811 two full business days before you dig	C-1.0	
	Sunshing		17
		SHEET Z of	17

- Q. COMPACTION SHALL BE ACCOMPLISHED AS RECOMMENDED IN THE GEOTECHNICAL STUDY PROVIDED BY NV5 DATED DECEMBER 17, 2015. COMPACTION TESTS SHALL BE PERFORMED FOR THE STABILIZED SUBGRADE 10,000 SF OR AT MINIMUM TWO (2) TEST LOCATIONS, WHICH EVER IS GREATER.
- R. THE LIMEROCK SHALL BE TRANSPORTED TO THE POINT WHERE IT IS TO BE USED OVER BASE PREVIOUSLY PLACED, IF PRACTICABLE, AND DUMPED ON THE END OF THE PROCEEDING SPREAD, HAULING OVER THE SUBGRADE AND DUMPING ON THE SUB GRADE WILL BE PERMITTED ONLY WHEN IN THE ENGINEERS' OPINION THESE OPERATIONS WILL NOT BE DETRIMENTAL TO THE BASE.
- S. THE LIMEROCK SHALL BE SPREAD UNIFORMLY, WITH EQUIPMENT ACCEPTABLE TO THE ENGINEER, ALL SEGREGATED OR OTHERWISE UNACCEPTABLE AREAS SHALL BE REMOVED AND REPLACED WITH PROPERLY GRADED ROCK, AFTER SPREADING IS COMPLETED, THE ENTIRE SURFACE SHALL BE SCARIFIED AND THEN SHAPED SO AS TO PRODUCE THE REQUIRED GRADE, THICKNESS AND CROSS-SECTION AFTER COMPACTION. LIFTS SHALL HAVE A MAXIMUM COMPACTED THICKNESS OF SIX INCHES.
- COMPACTION SHALL BE ACCOMPLISHED AT OPTIMUM MOISTURE. WHEN THE MATERIAL DOES NOT HAVE THE PROPER MOISTURE CONTENT TO INSURE THE REQUIRED DENSITY, WETTING OR DRYING WILL BE REQUIRED. ADDED WATER SHALL BE UNIFORMLY MIXED TO THE FULL DEPTH OF THE COURSE WHICH IS BEING COMPACTED.
- BEFORE ANY BITUMINOUS MATERIAL IS APPLIED, ALL LOOSE MATERIAL DUST. DIRT. CAKED SLAY AND FOREIGN MATERIAL WHICH MIGHT PREVENT PROPER BOND WITH EXISTING SURFACE SHALL BE REMOVED FOR THE FULL WIDTH OF THE APPLICATION. PARTICULAR CARE SHALL BE TAKEN TO CLEAN THE OUTER EDGE OF THE STRIP TO BE TREATED IN ORDER TO ENSURE THAT THE PRIMER WILL ADHERE, WHERE THE PRIMER IS APPLIED ADJACENT TO CURB & GUTTER OR VALLEY GUTTER, SUCH CONCRETE SURFACES ARE TO BE PROTECTED AND KEPT FREE OF BITUMINOUS MATERIAL.
- NO BITUMINOUS MATERIAL SHALL BE APPLIED WHEN THE TEMPERATURE OF V. THE AIR IS LESS THAN 40° F IN THE SHADE AND FALLING, OR WHEN THE WEATHER CONDITIONS OR THE CONDITION OF THE EXISTING SURFACE IS UNSUITABLE.
- W. THE SURFACE TO BE PRIMED SHALL BE CLEAN AND DRY FOR LIMEROCK BASES. THE GLAZED FINISH SHALL BE REMOVED BEFORE THE APPLICATION OF PRIME COAT.
- X. WHERE NEW PAVEMENT MEETS EXISTING, CONNECTION SHALL BE MADE IN A NEAT STRAIGHT LINE AND FLUSH WITH EXISTING PAVEMENT.
- Y. BONDED RUBBER MULCH (TREE PROTECTION AREA)
 - SOIL PLACED UNDER AREAS OF PROPOSED BONDED RUBBER MULCH SHALL BE PLANTING SOIL CONSISTING OF 80% SILICA SAND AND 20% EVERGLADES MUCK, OR OTHER SOIL APPROVED BY THE OWNERS DESIGNATED ARBORIST. THE CLEAN FILL MATERIAL SHALL BE SOURCED FROM A NATIVE ROCK MINING QUARRY.
 - CONTRACTOR SHALL SUPPLY 1 CY SOIL SAMPLE TO THE OWNERS DESIGNATED ARBORIST FOR APPROVAL PRIOR TO PLACEMENT.
- Z. BONDED RUBBER MULCH (NOT IN TREE PROTECTION AREA)
 - SUB-BASE SHALL CONSIST OF 4" OF COMPACTED STONE ($\frac{3}{4}$ " MINUS) OR LIMEROCK
 - SUB-BASE SHALL BE PART OF THE 12" THICK CLEAN FILL LAYER (I.E. 8" CLEAN FILL + 4" CLEAN SUB-BASE = 12" CLEAN FILL)
- AA. BASEBALL FIELD / MIXED USE FIELD
 - SITE PREPARATION FOR CONSTRUCTION SHOULD CONSIST OF REMOVAL OF EXISTING UTILITIES, PAVEMENT, FENCING, EXISTING CLAY MATERIAL, BASEBALL FIELD EQUIPMENT AND ANY ADDITIONAL ITEMS NOTED IN THE CONSTRUCTION DOCUMENTS TO BE REMOVED.
 - EXISTING IRRIGATION SYSTEM WITHIN THE BASEBALL FIELD SHALL BE 2. REMOVED AND DISPOSED BY THE CONTRACTOR.
 - BASE UNDER ENGINEERING CONTROL SHALL BE GRADED AND COMPACTED TO MEET THE PROPOSED FINAL ELEVATIONS MINUS THE ENGINEERING CONTROL ELEVATIONS. AS-BUILT TOPOGRAPHIC SURVEY SIGNED AND SEALED BY A REGISTERED PROFESSIONAL LAND SURVEYOR SHALL BE PROVIDED TO ENGINEER OF THE COMPLETED BASE FOR REVIEW PRIOR TO THE INSTALLATION OF THE ENGINEERING CONTROL.
 - CONTRACTOR MAY USE CONTAMINATED SOIL MATERIAL EXCAVATED WITHIN THE PROJECT LIMITS AS FILL UNDERNEATH THE PROPOSED ENGINEERING CONTROL.
 - FILL SOILS SHOULD BE PLACED WITH LOOSE LIFT THICKNESS OF NOT MORE THAN 12-INCHES MOISTURE CONDITIONS TO WITHIN TWO (2) PERCENT OF THE MOISTURE CONTENT BASED ON ASTM D-1557 AND COMPACTED TO MINIMUM 95 PERCENT RELATIVE COMPACTION. ONE COMPACTION TEST SHALL BE PERFORMED FOR EACH 2,500 SQUARE FEET OF FILL AREA PER LIFT OF SOILS.
 - CLEAN FILL MATERIAL SHALL CONSISTS OF SELECTED SOD, 6" THICK PLANTING SOIL CONSISTING OF 80% SILICA SAND AND 20% EVERGLADES MUCK, OR OTHER SOIL APPROVED BY THE OWNERS DESIGNATED ARBORIST AND MINIMUM 6" THICK LIMEROCK. REFER TO ENGINEERING CONTROL AND LANDSCAPE DRAWINGS FOR MORE INFORMATION. THE CLEAN FILL MATERIAL SHALL BE SOURCED FROM A NATIVE ROCK MINING QUARRY.
- AB. PERIMETER WALKWAY, BLEACHERS, AND MISCELLANEOUS STRUCTURES SHALL BE PREPARED, GRADED AND COMPACTED AS RECOMMENDED IN THE GEOTECHNICAL STUDY PROVIDED BY NV5 DATED DECEMBER 17, 2015.

AC. PROCTOR, DENSITY TESTS AND MATERIALS TESTING AS REQUIRED BY THE ENGINEER ARE TO BE PROVIDED BY AN INDEPENDENT MATERIALS TESTING LABORATORY AS APPROVED BY THE CITY AND/OR ENGINEER. REPORTS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER FROM THE APPROVED TESTING LABORATORY WILL BE SUBMITTED TO THE ENGINEER AND THE CITY INDICATING OBSERVATIONS AND RESULTS OF TESTS AND INDICATING COMPLIANCE OR NONCOMPLIANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOTIFY ENGINEER AND CITY 48 HOURS PRIOR TO THE EXPECTED TIME FOR OPERATIONS REQUIRING INSPECTION AND LABORATORY TESTING SERVICES. THE CONTRACTOR SHALL FURNISH SAMPLES OF MATERIALS, DESIGN MIX, EQUIPMENT, TOOLS, ETC AS REQUESTED. RETESTING REQUIRED BECAUSE OF NON-CONFORMANCE TO SPECIFIED REQUIREMENTS SHALL BE PERFORMED BY THE SAME INDEPENDENT FIRM ON INSTRUCTIONS FROM THE ENGINEER. THE COST OF SAMPLING AND TESTING, INCLUDING ANY NECESSARY RETESTING, CANCELLED TESTS AND/OR THE CONTRACTOR NOT BEING READY FOR THE REQUIRED TEST, SHALL BE INCLUDED IN THE CONTRACT PRICE PROVIDED BY THE CONTRACTOR.

IX. STORMWATER NOTES:

- A. DISTANCES AND LENGTHS SHOWN ON PLANS REFERANCED TO THE CENTER OF STRUCTURE UNLESS SPECIFIED OTHERWISE ON THE PLANS. B. LIFT HOLES THROUGH PRECAST STRUCTURES ARE NOT PERMITTED.
- C. ALL CEMENT USED ON DRAINAGE STRUCTURES SHALL BE TYPE II PORTLAND CEMENT CONFORMING TO ASTM SPECIFICATIONS C-150 AASHTO DESIGNATION M-85.
- D. UNLESS OTHERWISE NOTED ON THE PLANS, STRUCTURES SHALL BE PRECAST CONCRETE SECTIONS.
- E. MORTAR FOR USE IN CONSTRUCTION AND PLASTERING STRUCTURES SHALL CONFORM TO ASTM C-270 SPECIFICATIONS FOR MORTAR FOR UNIT MASONRY. A PORTLAND CEMENT HYDRATED LIME MIXTURE OR A MASONRY CEMENT MAY BE USED PROVIDED THAT THE SAME MATERIALS ARE USED THROUGHOUT THE PROJECT.
- F. MORTAR MATERIALS SHALL BE PROPORTIONED BY VOLUME AND SHALL CONSISTS OF ONE PART TYPE II PORTLAND CEMENT TO TO TWO PARTS AGGREGATE (SAND). PORTLAND CEMENT SHALL CONFORM TO ASTM C-150, "SPECIFICATIONS FOR PORTLAND CEMENT", AGGREGATE SHALL CONFORM TO ASTM C-144 "SPECIFICATIONS FOR AGGREGATE FOR MASONRY UNITS".
- G. PRECAST MANHOLE SECTIONS SHALL CONFORM TO ASTM C-478, SPECIFICATIONS FOR PRECAST REINFORCED CONCRETE MANHOLE SECTIONS AS MODIFIED THERETO. CONCRETE SHALL BE TYPE II ACID RESISTANT AND ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS. MINIMUM WALL THICKNESS SHALL BE 8 INCHES AND MINIMUM INSIDE DIAMETER SHALL BE 48 INCHES. THE INSIDE OF ALL STRUCTURES SHALL BEAR THE APPROVAL OF A CERTIFIED TESTING LABORATORY WHEN DELIVERED TO THE JOB SITE.
- H. REFER TO FDOT INDEX 200 FOR ADDITIONAL DETAILS AND SPECIFICATIONS. I. WALL REINFORCEMENT AND THICKNESS FOR PRECAST STRUCTURES SHALL BE IN ACCORDANCE WITH ASTM C-478.
- J. ALL REINFORCING BARS SHALL BE ASTM A615 GRADE 60, ALL COVER SHALL BE 3 INCHES MINIMUM.
- K. THE BASE AND WALLS THAT COMPOSE THE BOTTOM SECTION OF THE PRECAST STRUCTURES SHALL BE OF MONOLTHIC CONSTRUCTION, 8 INCHES THICK AND THE EDGE OF THE BASE SLAB SHALL PROJECT A MINIMUM OF 4 INCHES BEYOND THE OUTSIDE DIAMETER OF THE WALL
- L. HOLES FOR PIPING SHALL BE 6 INCHES LARGER THAN THE OUTSIDE DIAMETER OF THE RESPECTIVE PIPES. AFTER THE PIPE IS SET, THE VOID SPACE BETWEEN THE PIPE AND THE HOLE PERIMETER SHALL BE COMPLETELY FILLED WITH NON-SHRINK, QUICK SETTING, WATERPROOF CEMENT MORTAR AND STRUCK SMOOTH.
- M. THE MINIMUM HEIGHT OF PRECAST BASE SECTION SHALL BE 36 INCHES FROM THE BOTTOM OF THE BASE SLAB; HOWEVER, NO HOLES FOR PIPING SHALL BE CAST LESS THAN 8 INCHES FROM THE TOP OF THE BASE SECTION OR LESS THAN 2 INCHES ABOVE THE TOP OF THE BASE SLAB.
- N. ALL CASTING SHALL BE TRUE TO PATTERN AND DIMENSIONS, FREE FROM FAULTS OR DEFECTS AND WELL CLEANED.
- O. BEARING SURFACES BETWEEN CAST FRAMES, COVERS AND GRATES SHALL BE MACHINED AND FITTED TOGETHER TO ASSURE A TRUE AND EVEN FIT. WITHIN AREAS OF VEHICULAR TRAFFIC THE FRAMES, COVERS AND GRATING SHALL BE MACHINE-GROUND SO THAT IRREGULARITY OF CONTACT WILL BE REDUCED TO A MINIMUM AND WILL BE RATTLE PROOF.
- P. ALL STRUCTURES SHALL BE SET PLUMB TO LINE AND GRADE AND SHALL REST ON A FIRM CAREFULLY GRADED SUB-GRADE WHICH SHALL PROVIDE UNIFORM BEARING UNDER BASE.
- Q. LOCATION OF DRAINAGE STRUCTURES GOVERN. ADJUST PIPE LENGTHS AS REQUIRED.
- R. ALL PIPE SHALL BE CAREFULLY LAID, TRUE TO THE LINES AND GRADES GIVEN. ANY PIPE THAT IS NOT IN TRUE ALIGNMENT OR WHICH SHOWS ANY SETTLEMENT AFTER INSTALLATION SHALL BE RE-INSTALLED AT NO ADDITIONAL COST TO THE CITY.
- S. MORTAR USED TO SEAL THE PIPE INTO THE WALLS OF THE PRECAST STRUCTURES WILL BE OF SUCH A MIX THAT SHRINKAGE WILL NOT CAUSE LEAKAGE IN OR OUT OF THE STRUCTURES. THE OPENING THROUGH WALLS FOR PIPE SHALL BE THE OUTSIDE DIAMETER PLUS 6 INCHES.
- T. ALL MUCK OR OTHER UNSTABLE MATERIAL ENCOUNTERED IN TRENCH BOTTOM SHALL BE ADDRESSED AS SHOWN ON THE DETAILS. BACKFILL TRENCH WITH GRANULAR MATERIAL COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180, METHOD 'D'.
- U. UPON COMMENCEMENT OF CONSTRUCTION ACTIVITIES, CONTRACTOR SHALL INSPECT AND CLEAN ALL EXISTING STRUCTURES AND PIPES TO REMAIN IN SERVICE WITHIN THE PROJECT LIMITS. IF EXISTING STRUCTURES AND PIPES ARE DAMAGED, CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONNECTION WITH THE NEW PIPING AND/OR STRUCTURE(S).
- V. DURING CONSTRUCTION OPERATIONS, CONTRACTOR IS TO PREVENT INTRODUCTION OF DEBRIS OR DIRT INTO EXISTING STORM DRAINAGE AND/OR SANITARY SEWERS SYSTEMS AS A RESULT OF CONSTRUCTION ACTIVITIES, ALL EXISTING DRAINAGE PIPING AND STRUCTURES TO REMAIN IN SERVICE WITHIN THE PROJECT LIMITS SHALL BE CLEANED PRIOR TO FINAL INSPECTION AND ACCEPTANCE.
- W. DURING CONSTRUCTION OPERATIONS, CONTRACTOR SHALL PROTECT COMPLETED DRAINAGE SYSTEM FROM CONTAMINATION BY SILT AND CONSTRUCTION DEBRIS. PLACE PLYWOOD ON OR FILTER FABRIC BETWEEN THE FRAME AND INLET GRATE UNTIL SITE CONSTRUCTION OPERATIONS ARE FINISHED.
- X. THE CONTRACTOR SHALL FURNISH THE ENGINEER SHOP DRAWINGS OF THE PRECAST STRUCTURES (AND CERTIFICATIONS FROM A TESTING LABORATORY) FOR APPROVAL. SHOP DRAWINGS SHOULD ILLUSTRATE ALL DIMENSION. REINFORCEMENT AND SPECIFICATIONS FOR THE COMPLETE STRUCTURE.

- Y. PIPE BEDDING SHALL BE SAND, GRAVELLY SAND, OR 1-INCH MINUS CRUSHED LIMESTONE, NOT MORE THAN 10% OF WHICH PASSES A NO. 200 SIEVE.
- Z. CONTRACTOR TO WRAP ALL PIPE JOINTS AND PIPE CONNECTIONS TO STRUCTURES WITH APPROVED FILTER FABRIC.
- AA. ALL DRAINAGE STRUCTURES SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF CITY OF MIAMI PUBLIC WORKS DEPARTMENT, FDOT, MDC DERM AND THE MDC PUBLIC WORKS.
- AB. ON COMPLETION OF EACH SECTION OF DRAINAGE SYSTEM, THE SECTION OF THE SYSTEM IS TO BE CLEANED AND INSPECTED BY THE ENGINEER OR DESIGNATED REPRESENTATIVE. INSPECTION SHALL BE PERFORMED BY LAMPING EACH SECTION BETWEEN STRUCTURES. IN EXAMINATION FROM EITHER END, SHALL SHOW A FULL CIRCLE OF LIGHT. ALL REPAIRS SHOWN NECESSARY BY THE INSPECTION ARE TO BE MADE; COLLAPSED PIPE REPLACED, ALL DEPOSITS REMOVED AND DRAIN LINE LEFT TRUE TO LINE AND GRADE ENTIRELY CLEAN AND READY FOR USE. CONTRACTOR SHALL PROVIDE AS-BUILTS SIGNED AND SEALED BY A REGISTERED PROFESSIONAL LAND SURVEYOR PRIOR TO THE INSPECTION.

X. GEOSYNTHETIC CLAY LINER (GCL):

- A. GENERAL: GCL SHALL BE PROVIDED TO THE LIMITS SHOWN ON THE PLANS. ADDITIONAL GCL COVERAGE IS ACCEPTABLE FOR PRACTICAL CONSTRUCTABILITY PURPOSES, PROVIDED THAT A ONE-FOOT SOIL COVER IS PLACED OVER THE GCL, AT NO ADDITIONAL COST TO THE OWNER.
- B. MATERIALS: GCL SHALL BE "BENTOLINER EC GEOSYNTHETIC CLAY LINER" AS SUPPLIED BY GEOSYNTHETIC LINING SYSTEMS OR APPROVED EQUAL. C. INSTALLATION:
- 1. GCL SHALL BE INSTALLED BY THE MANUFACTURER CERTIFIED CONTRACTOR OR SUBCONTRACTOR IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS.
- 2. INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
- D. TESTING: TESTING SHALL BE IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.

XI. PAVEMENT MARKINGS AND SIGNAGE

- A. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC AND IN COMPLIANCE WITH FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 711 THERMOPLASTIC TRAFFIC STRIPES AND MARKINGS."
- ALL PAVEMENT MARKINGS SHALL CONFORM TO THE FLORIDA В. DEPARTMENT OF TRANSPORTATION (FDOT) "ROADWAY AND TRAFFIC DESIGN STANDARDS," LATEST EDITION, AND TO THE FDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION." LATEST EDITION.
- C. ALL EXISTING MARKINGS IN CONFLICT WITH THE PROPOSED DESIGN SHALL BE REMOVED.
- D. TRAFFIC / PARKING LOT SIGNS:
 - 1. MATERIALS: FOLLOW SECTION 700 OF THE FDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," LATEST EDITION; AND THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES"(MUTCD) BY THE U.S. DEPARTMENT OF TRANSPORTATION, LATEST EDITION.
 - 2. PLACEMENT: IN ACCORDANCE WITH PART 2 OF THE MUTCD.
- E. ALL TRAFFIC CONTROL SIGNAGE, EQUIPMENT AND MATERIALS TO BE APPROVED BY MIAMI-DADE PUBLIC WORKS DEPARTMENT TRAFFIC SIGNALS AND SIGNS DIVISION PRIOR TO INSTALLATION.

XII. INSPECTIONS

- A. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD, AND ANY OTHER GOVERNMENTAL AGENCIES HAVING JURISDICTION AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION AND PRIOR TO THE INSPECTION OF THE FOLLOWING ITEMS. WHERE APPLICABLE:
 - DEMOLITION
 - CLEARING AND EARTHWORK
 - SUBGRADE 8-OZ NON-WOVEN GEOTEXTILE
 - BENTOLINER EC GEOSYNTHETIC CLAY LINER
 - FINAL GRADING
 - CONCRETE BORDER BLEACHER PAD INSTALLATION
 - ASPHALT PAVING
 - 10. DRAINAGE INSTALLATION
 - 11. GRAVITY WELL WELL PUMP TEST 12. POURED IN PLACE/BONDED RUBBER MULCH/ARITIFICIAL TURF 13. FINAL

XIII. SHOP DRAWINGS

A. PRIOR TO THEIR CONSTRUCTION OR INSTALLATION, SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE ENGINEER OF RECORD FOR THE FOLLOWING: 80-20 SOIL MIX, CLEAN FILL, 8-0Z NON-WOVEN GEOTEXTILE, GSE BENTOLINER EC GEOSYNTHETIC CLAY LINER, POURED IN PLACE RUBBERIZED PLAYGROUND SURFACING, BONDED RUBBER MULCH, ARTIFICIAL TURF (IF USED), DRAINAGE STRUCTURES, WELL CASING, WELL SCREEN, HDPE SOLID PIPE, BAFFLES, LIMEROCK, FILTER FABRIC, ASPHALT, CONCRETE AND ALL REQUIRED ACCESSORIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL OTHER AGENCY APPROVALS IF REQUIRED.

XIV. TEMPORARY FACILITIES

A. GENERAL:

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR 1. OR SUPPLY TEMPORARY WATER SERVICE, SANITARY FACILITIES AND ELECTRICITY, AS NEEDED.

B. TRAFFIC REGULATIONS:

- MAINTENANCE OF TRAFFIC IN THE PUBLIC RIGHTS-OF-WAY SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICE (M.U.T.C.D.) AND THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARDS & SPECIFICATIONS.
- NO TRENCHES OR HOLES ARE TO BE LEFT OPEN DURING NIGHTTIME HOURS, UNLESS IN ACCORDANCE WITH METHODS APPROVED BY THE ENGINEER OF RECORD AND THE OWNER.

XV. PROJECT CLOSEOUT

- A. CLEANING UP:
 - 1. DURING CONSTRUCTION, THE PROJECT SITE AND ALL ADJACENT AREAS SHALL BE MAINTAINED IN A NEAT AND CLEAN MANNER, AND UPON FINAL CLEAN-UP, THE PROJECT SITE SHALL BE LEFT CLEAR OF ALL SURPLUS MATERIAL OR TRASH. THE PAVED AREAS SHALL BE BROOM SWEPT CLEAN.
 - 2. THE CONTRACTOR SHALL RESTORE OR REPLACE, WHEN AND AS DIRECTED BY THE ENGINEER OF RECORD, ANY PUBLIC OR PRIVATE PROPERTY DAMAGED BY HIS WORK, EQUIPMENT, OR EMPLOYEES, TO A CONDITION AT LEAST EQUAL TO THAT EXISTING IMMEDIATELY PRIOR TO THE BEGINNING OF OPERATIONS. TO THAT END, THE CONTRACTOR SHALL DO, AS REQUIRED, ALL NECESSARY HIGHWAY. DRIVEWAY, SIDEWALK AND LANDSCAPING WORK. SUITABLE MATERIALS AND METHODS SHALL BE USED FOR SUCH RESTORATION.
 - 3. WHERE MATERIAL OR DEBRIS HAS WASHED, FLOWED INTO OR HAS BEEN PLACED IN WATER COURSES, DITCHES, DRAINS, CATCH BASINS. OR ELSEWHERE AS A RESULT OF THE CONTRACTOR'S OPERATIONS. SUCH MATERIAL OR DEBRIS SHALL BE REMOVED AND SATISFACTORILY DISPOSED OF DURING THE PROGRESS OF THE WORK, AND THE AREA KEPT IN A CLEAN AND NEAT CONDITION.
- B. ALL PROPERTY MONUMENTS OR PERMANENT REFERENCES. REMOVED OR DESTROYED BY THE CONTRACTOR DURING CONSTRUCTION, SHALL BE RESTORED BY A STATE OF FLORIDA REGISTERED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
- C. ALL UNPAVED SURFACES DISTURBED AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THAT WHICH EXISTED BEFORE CONSTRUCTION.
- D. PROJECT RECORD DOCUMENTS:
 - DURING THE DAILY PROGRESS OF THE JOB, THE CONTRACTOR SHALL RECORD ON HIS SET OF CONSTRUCTION DRAWINGS THE EXACT LOCATION, LENGTH, MATERIAL AND ELEVATION OF ANY ITEM NOT BUILT EXACTLY ACCORDING TO PLANS.
 - CONTRACTOR SHALL FURNISH WRITTEN AND DOCUMENTED VERIFICATION OF THE 1-FT 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.
 - UPON COMPLETION OF CONTAMINATED SOIL EXCAVATION AND OFF-SITE HAULING, CONTRACTOR SHALL FURNISH THE ENGINEER OF RECORD "AS-BUILT" PLANS FOR BOTH THE SUBGRADE AND FINAL GRADE. THE "AS-BUILT" PLANS SHALL SHOW PERTINENT GRADES THROUGHOUT THE PROJECT AREA AT SUFFICIENT DETAILS TO SHOW CHANGES IN ELEVATION 6" OR GREATER AND AT LEAST EVERY 50-FT INCLUDING LOCATIONS AND ELEVATIONS OF ALL HIGH AND LOW POINTS.

XVI. REGULATORY STANDARDS

FDOT ENGINEERING STANDARDS

INDEX 200	STRUCTURE BOTTOMS - TYPE J &
INDEX 201	SUPPLEMENTARY DETAILS FOR I
INDEX 241	SKIMMERS FOR FRENCHDRAIN C
INDEX 280	MISCELLANEOUS DRAINAGE DET
INDEX 304	DETECTABLE WARNINGS AND SI
INDEX 17346	SPECIAL MARKING AREAS

MIAMI-DADE WATER AND SEWER DEPARTMENT STANDARDS SPECIFICATIONS

WS 2.16	TYPICAL 2" SERVICE INSTALLAT
WS 2.16	TYPICAL 2" SERVICE CONNECTION
WS 4.19	PRESSURE VACUUM BREAKER I

CITY OF MIAMI ENGINEERING STANDARDS

DETAIL NUMBER	DESCRIPTION
MISC. 35-85-22	CURB & GUTTER AND SIDEWALK
MISC. 35-85-22	TYPICAL CURB OR GUTTER AND
MISC .35-85-33	SIGNAGE FOR HANDICAP STALLS
MISC. 35-85-33	MINIMUM PARKING STANDARDS
MISC. 35-85-33	MINIMUM PARKING STANDARDS (
MISC. 35-85-33 MISC. 35-85-41 MISC. 35-86-2 MISC. 35-86-2 MISC. 35-86-8 MISC 35-86-8	REINFORCED, PRECAST, CONCRE
MISC. 35-86-2	TYPE "D" CATCH BASIN
MISC. 35-86-2	HINGED TYPE "D" CATCH BASIN F
MISC. 35-86-8	TYPE "A" MANHOLE (FOR STORM
MISC 35-86-8	TYPE "A" MANHOLE FRAME & CO\
MISC. 35-86-39	STANDARD BAFFLE DETAILS (SHE
MISC. 35-86-39 MISC. 35-88-7	STANDARD BAFFLE DETAILS (SHE
MISC. 35-88-7	BACKFILL AND PERMANENT PAVE
	TRENCHES GREATER THAN 6" IN
	RIGHT OF WAY
MISC. 35-88-8	BACKFILL AND PERMANENT PAVE
	TRENCHES 6" IN WIDTH IN THE PL
MISC. 35-89-6 MISC. 35-89-6	EROSION AND SEDIMENT CONTR SITES EXHIBIT #1
MISC. 35-89-6	EROSION AND SEDIMENT CONTR SITES EXHIBIT #2
MISC. 35-89-6 MISC. 35-89-6	EROSION AND SEDIMENT CONTR SITES EXHIBIT #3
	(FOR PROJECTS OF 1 ACRE OR M
MISC. 35-89-6	EROSION AND SEDIMENT CONTR SITES EXHIBIT #4

ABBREVIATIONS

BOS

CBS

CLF

CLP

CMP

CO

CP

CS

DIP

DMH

DWS

EOP

EPB

ESMT

EXIST.

FFE

FOB

FPL

GΑ

H/C

ICB

INV.

MH

MP

MF

MONT.

OHW

PLTR

PROP.

PVC

RCP

R/W

SAN.

SLB

SMH

S.S.

TEI

TBM

TSAB

TSB

ΤYΡ

U.E

UNK.

UTD

WΡ

W.M.

WP

W/

WF

MLP

EB

ЕC

C/S

DDCV

CONC

CB

1 & P MANHOLES & INLETS OUTLETS TAILS IDEWALK CURB RAMPS

ION WITH A 2" METER IONS (HDPE) **IRRIGATIONS BRAKER SYSTEM**

(DETAILS GUTTER REINFORCING

(HANDICAPPED) RETE WHEEL STOP

FRAME & COVER WATER DRAINAGE SYSTEMS) **OVFR** HEET 1 OF 2) HEET 2 OF 2)

'EMENT STANDARDS FOR WIDTH IN THE PUBLIC 'EMENT STANDARDS FOR

PUBLIC RIGHT OF WAY ROL FOR CONSTRUCTION

ROL FOR CONSTRUCTION

ROL FOR CONSTRUCTION EVENTION PRACTICES

MORE) ROL FOR CONSTRUCTION

BACKFLOW PREVENTOR BOTTOM OF STRUCTURE CATCH BASIN CONCRETE BLOCK STRUCTURE CURB INLET CHAIN LINK FENCE CONCRETE LIGHT POLE CORRIGATED METAL PIPE CLEANOUT CONCRETE CONCRETE POLE CONCRETE SLAB CROSSWALK SIGNAL DOUBLE DETECTOR CHECK VALVE DUCTILE IRON PIPE DRAINAGE MANHOLE (STORMWATER) DETECTABLE WARNING SURFACE ELECTRIC BOX ELECTRIC CABINET ELEVATION EDGE OF PAVEMENT ELECTRIC PANEL BOX EASEMENT EXISTING FINISHED FLOOR ELEVATIONS FIBER OPTIC BOX FLORIDA POWER AND LIGHT GUYWIRE ANCHOR HANDICAP IRRIGATION CONTROL BOX INVERT MANHOLE METAL LIGHT POLE METAL POLE METAL FENCE MONITORING OVERHEAD WIRES PLANTER PROPOSED POLYVINYL CHLORIDE PIPE REINFORCED CONCRETE PIPE RIGHT-OF-WAY SANITARY SEWER STREET LIGHT BOX SANITARY MANHOLE STORM SEWER TELEPHONE TEMPORARY BENCH MARK TRAFFIC SIGNAL ACCESS BOX TRAFFIC SIGNAL BOX TYPICAL UTILITY EASEMENT UNKNOWN UNABLE TO DETERMINE WOOD FENCE WOOD LIGHT POLE WATER MAIN WOOD POLE WITH



DRAWING TITLE:

DRAWING NUMBER:

SHEET

NOTES AND SPECIFICATIONS

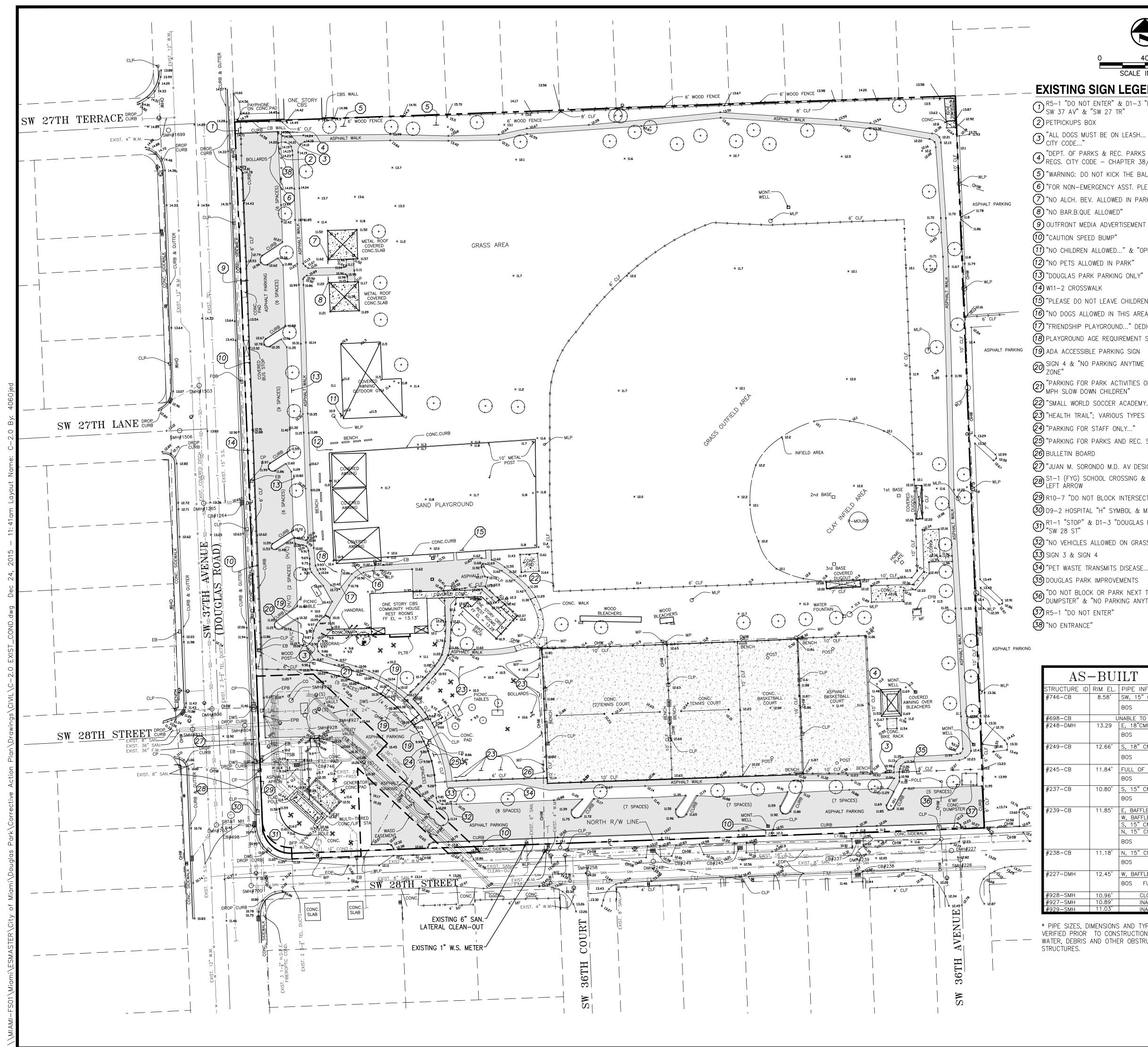
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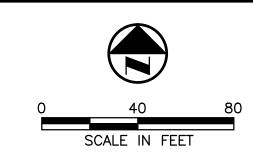
of **17**



ways call 811 two full business days before you dig

Sunshine





EXISTING SIGN LEGEND

1 R5-1 "DO NOT ENTER" & D1-3 "DOUGLAS RD SW 37 AV" & "SW 27 TR"

- (3) "ALL DOGS MUST BE ON LEASH ... PURSUANT TO CITY CODE..."
- 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"
- (9) OUTFRONT MEDIA ADVERTISEMENT BOARD
- (11) "NO CHILDREN ALLOWED ... " & "OPEN GYM"
- (13) "DOUGLAS PARK PARKING ONLY"
- (15) "PLEASE DO NOT LEAVE CHILDREN UNATTENDED"
- (16) "NO DOGS ALLOWED IN THIS AREA" (17) "FRIENDSHIP PLAYGROUND ... " DEDICATION SIGN
- (18) PLAYGROUND AGE REQUIREMENT SIGN
- SIGN 4 & "NO PARKING ANYTIME TOW AWAY ZONE"
- (2) "PARKING FOR PARK ACTIVITIES ONLY" & "5 MPH SLOW DOWN CHILDREN"
- (22) "SMALL WORLD SOCCER ACADEMY & "FIFA"
- (25) "PARKING FOR PARKS AND REC. STAFF ONLY"
- (27) "JUAN M. SORONDO M.D. AV DESIGNATED BY..."
- 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 (3) R1-1 "STOP" & D1-3 "DOUGLAS RD SW 37 AV" & "SW 28 ST"
- (32) "NO VEHICLES ALLOWED ON GRASS"
- (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..."

	-BU	ILT TABL	ĿΕ
E ID	RIM EL.	PIPE INFORMATION	INVERT EL.
	8.58'	SW, 15"CLAY	5.06'
		BOS	4.28'
		NABLE TO PULL COVE	
	13.29	E, 18"CMP-BAFFLED	8.92'
		BOS	2.25'
	12.66'	S, 18"CMP	8.75'
		BOS	7.01'
	11.84'	FULL OF DEBRIS	
		BOS	6.21'
	10.80'	S, 15" CMP	6.18'
		BOS	5.28'
	11.85'	E, BAFFLED	
		W, BAFFLED	
		S, 15" CMP	7.15'
		N, 15" CMP	6.03'
		BOS	1.97'
	11.18'	N, 15" CMP	7.21'
		BOS	2.66'
	12.45'	W, BAFFLED	
		BOS FULL OF DEB	RIS
	10.96'	CLOSED-BOLTE	D SHUT
	10.89'	INACCESABLE	

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

INACCESABLE

11.03'

LEGEND

- ASPHALT CONCRETE CENTER LINE ____ _P_ ___ PROPERTY LINE BENCH FIRE HYDRANT SIAMESE CONNECTOR GATE VALVE (UNLESS NOTED OTHERWISE) WATER METER CATCH BASIN GUYWIRE ANCHOR TREE PALM TREE SIGN Ø(S) SEWER VALVE ELECTRICAL* — E — E — E — FORCE MAIN LINE* ———— FM———— TELEPHONE* _____т ____ STORM SEWER* ----SD---SD-_____ SAN _____ SANITARY SEWER* WATER MAIN* _____ w _____ SANITARY SEWER CLEAN-OUT 0
- *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.



vays call 811 two full business days before you dig

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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

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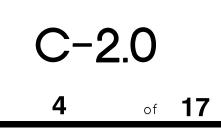
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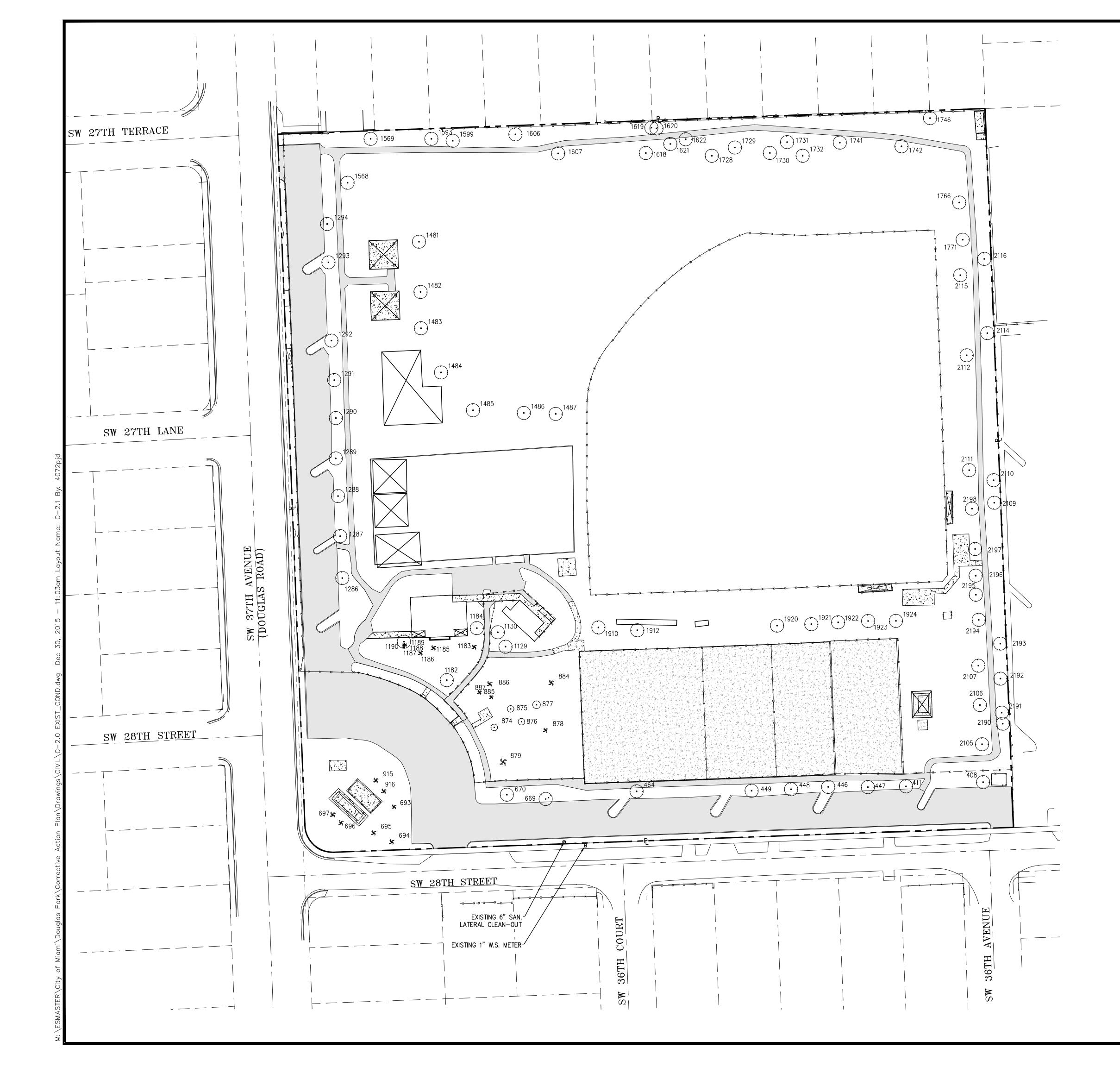
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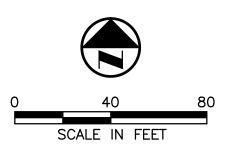
EXISTING CONDITIONS

DRAWING NUMBER:

HEET



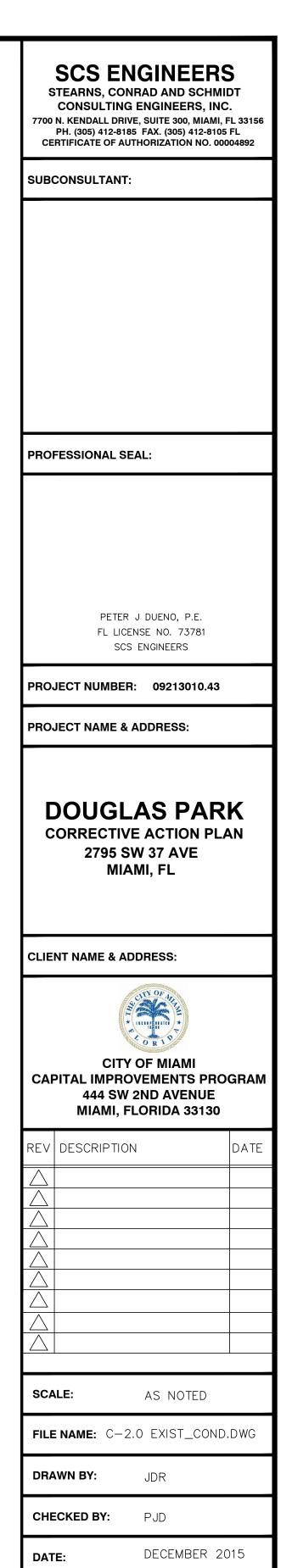




LEGEND

ASPHALT CONCRETE - − − CENTER LINE − ℝ − − − CENTER LINE PROPERTY LINE TREE PALM TREE

TREE TABLE TREE # SPECIES DIA. HEIGHT SPEAD 406 Medocanny 29" 54" 40" 4111 TERMINALIA 40" 60" 62" 4446 TERMINALIA 32" 54" 41" 447 TERMINALIA 32" 56" 34" 448 TERMINALIA 32" 56" 54" 449 TERMINALIA 32" 56" 54" 669 TERMINALIA 24" 45" 51" 670 CAPACADANALIB 24" 45" 15" 686 CABBRACE PALM 10" 20" 8" 697 CAPACADANALIB 7" 20" 10" 876 COCONUT PALM 9" 36" 19" 877 COCONUT PALM 9" 35" 17" 886 COCONUT PALM 9" 35" 17" 887 COCONUT PALM 9" 35" 15"		ਾ ਧਾਹ਼ਧਾ	וסאק	न	
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1187 ALEXANDRIA PALM 6" 20' 7' 1189 ALEXANDRIA PALM 6" 25' 7' 1189 ALEXANDRIA PALM 6" 25' 7' 1180 SCHEFFLERA 4" 27' 17' 1286 RE-POINCIANA 24" 23' 43' 1287 TERMINALIA 22" 43' 44' 1288 TERMINALIA 22" 43' 44' 1289 TERMINALIA 25" 50' 39' 1291 TERMINALIA 56" 66' 61' 1292 TERMINALIA 36" 75' 53' 1294 TERMINALIA 36" 75' 14' 1481 OAK 7" 14' 16' 1482 OAK 7" 14' 16' 1484 UNKNOWN 4" 16' 16' 1485 MAHOGANY 15" 25' 22' 1486 GUMBO LIMBO 6" </td <td>1185</td> <td>CABBAGE PALM</td> <td>10"</td> <td>19'</td> <td>11'</td>	1185	CABBAGE PALM	10"	19'	11'
1188 ALEXANDRIA PALM 6" 25' 7' 1189 ALEXANDRIA PALM 6" 27' 7' 1180 SCHEFFLERA 4" 27' 17' 1286 R-POINCIANA 24" 29' 50' 1287 TERMINALIA 22" 47' 45' 1289 TERMINALIA 25" 50' 39' 1290 TERMINALIA 25" 50' 39' 1291 TERMINALIA 25" 50' 55' 1292 TERMINALIA 56" 80' 74' 1293 TERMINALIA 36" 75' 53' 1284 DAK 6.5" 20' 14' 1481 OAK 6.5" 20' 14' 1482 OAK 7" 14' 16' 1483 OAK 8" 15' 18' 1484 UNKNOWN 4" 16' 16' 1485 OAK 8" 15' <td></td> <td></td> <td>10"</td> <td></td> <td></td>			10"		
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1294 TERMINALIA 34" 50' 55' 1481 OAK 6.5" 20' 14' 1482 OAK 7" 14' 16' 1483 OAK 8" 15' 18' 1484 UNKNOWN 4" 16' 16' 1485 MAHOGANY 15" 25' 22' 1486 GUMBO LIMBO 6" 12' 12' 1568 TERMINALIA 25" 37' 37' 1569 MAHOGANY 20" 34' 40' 1593 MAHOGANY 20" 34' 40' 1599 YELLOW TAB 12" 36' 14' 1606 STRANGLER FIG 16" 46' 28' 1618 MAHOGANY 17" 40' 28' 1619 UNKNOWN 34" 55' 50' 1621 YELLOW TAB 13" 46' 21' 1728 OAK 11" 34'			58"	80'	74'
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1620 UNKNOWN 34" 55' 50' 1621 YELLOW TAB 15" 46' 27' 1622 MAHOGANY 13" 46' 21' 1728 OAK 21" 34' 28' 1729 YELLOW TAB 13" 18' 7' 1730 OAK 19" 30' 29' 1731 OAK 17" 36' 22' 1732 OAK 17" 36' 22' 1742 MAHOGANY 2" 34' 32' 1742 MAHOGANY 9" 30' 19' 1746 STRANGLER FIG 25' 70' 77' 1766 MAHOGANY 22" 35' 25' 1771 MAHOGANY 50" 48' 63' 1910 OLIVE 4" 13' 14' 1920 YELLOW TAB 17" 23' 18' 1921 TAMARIND 43" 62'					
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2192 MELALEUCA 20" 30' 33' 2193 OAK 12" 33' 18'	2190		24"	28'	20'
2193 OAK 12" 33' 18'					
			12"	33'	18'
	2194	MAHOGANY	43"	52'	59'
2195MAHOGANY13"17'15'2196MAHOGANY23"33'25'			23"	33'	25'
2197 MAHOGANY 22" 38' 37'	2197	MAHOGANY	22"	38'	37'
2198 MAHOGANY 43" 52' 46'	2198		1 4J	52	40



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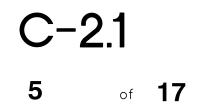
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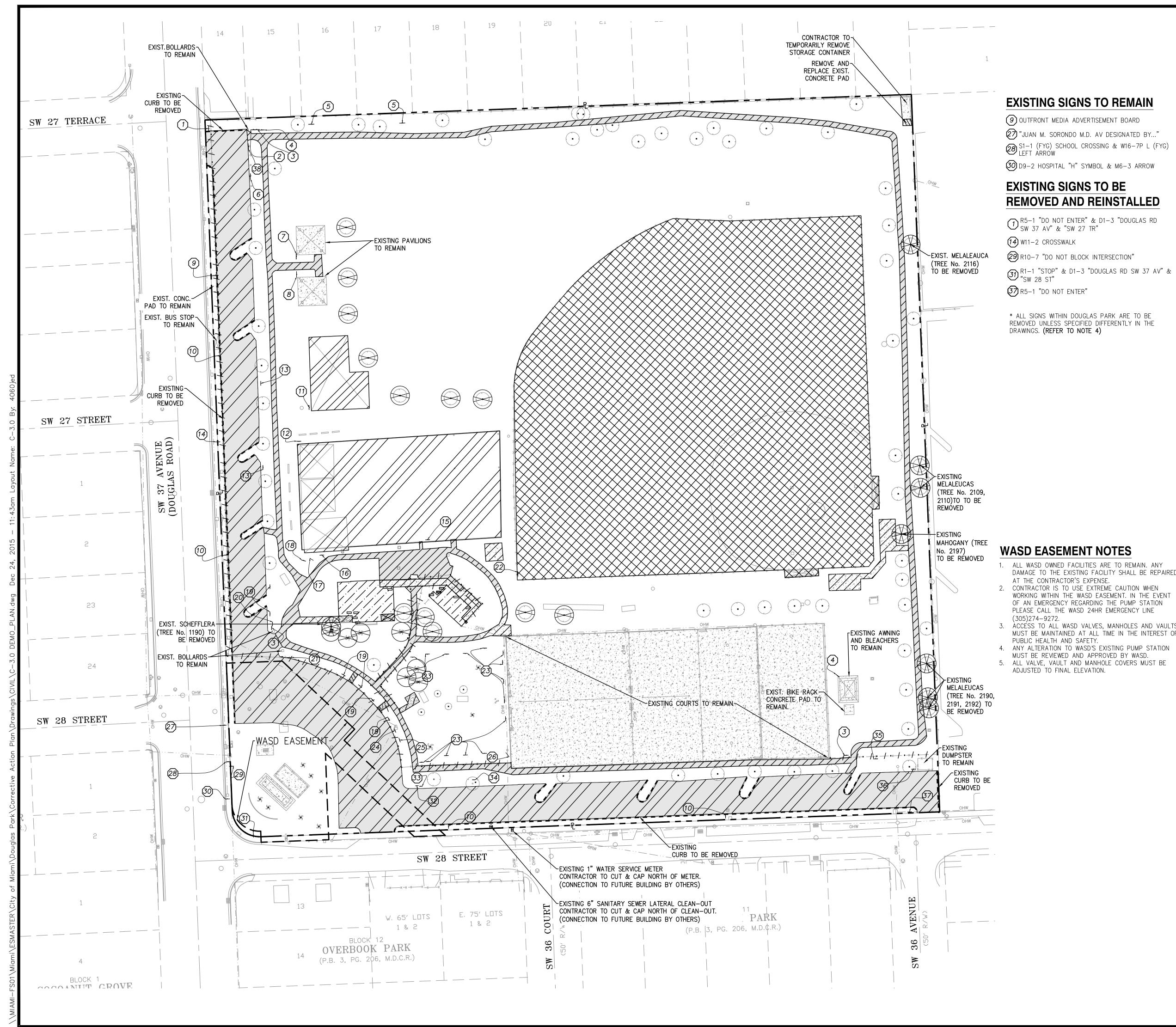
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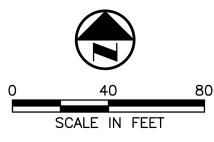
Sunshing





SHEET





LEGEND

SCS ENGINEERS

STEARNS, CONRAD AND SCHMIDT

EXISTING SIGNS TO REMAIN

9 OUTFRONT MEDIA ADVERTISEMENT BOARD (27) "JUAN M. SORONDO M.D. AV DESIGNATED BY ..." 81-1 (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

① R5-1 "DO NOT ENTER" & D1-3 "DOUGLAS RD SW 37 AV" & "SW 27 TR"

* ALL SIGNS WITHIN DOUGLAS PARK ARE TO BE REMOVED UNLESS SPECIFIED DIFFERENTLY IN THE

	CENTER LINE PROPERTY LINE BENCH FIRE HYDRANT SIAMESE CONNECTOR GATE VALVE (UNLESS NOTED OTH 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 REMOVED
	EXISTING CONCRETE PAVEMENT ⁻ BE REMOVED
	EXISTING OUTDOOR GYM AND PLAYGROUND TO BE REMOVED (REFER TO NOTE 11)
	EXISTING ONE-STORY BUILDINGS TO BE DEMOLISHED
	EXISTING BASEBALL FIELD, DUGO IRRIGATION AND CHAIN—LINK FEN BE REMOVED
\bigcirc	EXISTING TREE OR PALM TO BE RELOCATED
	EXISTING TREE TO BE REMOVED
	EXISTING SIGN TO BE REMOVED (UNLESS SPECIFIED DIFFERENTLY PLANS)
	EXISTING BENCHES TO BE REMOV (REFER TO NOTE 4)
	EXISTING PICNIC TABLES TO BE (REFER TO NOTE 4)

. EXISTING CURB TO BE REMOVED

NOTES

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

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0	40 8 SCALE IN FEET	30 9		N. KENDALL DRIVE, PH. (305) 412-8185 I RTIFICATE OF AUTH	SUITE 300, MIAMI, FAX. (305) 412-8105	FL 33156 5 FL
			SUB	CONSULTANT:		
D						
	CENTER LINE PROPERTY LINE BENCH FIRE HYDRANT SIAMESE CONNECTOR GATE VALVE (UNLESS WATER METER CATCH BASIN GUYWIRE ANCHOR TREE PALM TREE	NOTED OTHERWISE)				
⊷ <i> </i> •	SIGN SEWER VALVE EXISTING CHAIN LINK BE REMOVED	FENCE TO				
	EXISTING ASPHALT, B SUBGRADE TO BE RE		PRO	ESSIONAL SEA		
	EXISTING ASPHALT PAREMOVED					
	EXISTING CONCRETE F BE REMOVED	PAVEMENT TO				
	EXISTING OUTDOOR G PLAYGROUND TO BE (REFER TO NOTE 11)			FL LICENS	DUENO, P.E. E NO. 73781 NGINEERS	
	EXISTING ONE-STORY TO BE DEMOLISHED	BUILDINGS	PRO	JECT NUMBER:		
\bigotimes	EXISTING BASEBALL F IRRIGATION AND CHAI BE REMOVED		PRO	JECT NAME & AD	DRESS:	
)	EXISTING TREE OR PA RELOCATED	ALM TO BE				
)	EXISTING TREE TO BE	REMOVED		OUGLA ORRECTIVE 2795 SW	ACTION PL	
	EXISTING SIGN TO BE (UNLESS SPECIFIED D PLANS)			MIAM	-	
	EXISTING BENCHES TO (REFER TO NOTE 4)) BE REMOVED				
	EXISTING PICNIC TABL (REFER TO NOTE 4)	ES TO BE REMOVED	CLIE	NT NAME & ADD	RESS:	
	EXISTING CURB TO BE	BASED THE BEST		CITY O	F MIAMI	
OWNER ED BY K WS AVEN	ORMATION OBTAINED FR AND THE TOPOGRAPHIC EITH AND SCHNARS, P. UE, FORT LAUDERDALE, 4) 776–1616, JOB NO.	C SURVEY A. 6500 NORTH FL. 33309	CAF		EMENTS PRO ND AVENUE DRIDA 33130	GRAM
NOT DES) BE PRO RUCTION	SIGNATED FOR REMOVAL DTECTED AND REMAIN I ACTIVITIES. ENCHES, BLEACHERS, E	OR RELOCATION N PLACE DURING	REV	DESCRIPTION		DATE
RECEPT	ACLES, SIGNS, "HEALTH) GYM/PLAYGROUND EG	TRAIL" DUIPMENT ARE TO	\triangle			
TO ANY	CONTRÀCTOR TO MEET V REMOVAL OF EQUIPMEN E SALVAGED OR DISPO	IT TO ESTABLISH	\triangle			
	O FIELD VERIFY EXISTIN IGINEER OF ANY DISCRE		Δ			
ACTOR IS AND AN REA. COM MI AND	5 TO PROTECT ALL EXIS Y EXISTING UTILITIES TO NTRACTOR IS TO COORD ENGINEER OF ANY CON	D REMAIN IN THE DINATE WITH CITY				
	O REFER TO LANDSCAP 5 FOR THE IDENTIFIED E		SCA	LE:	AS NOTED	
KISTING E ED.	O REFER TO ELECTRICA ELECTRICAL COMPONENT	DEMOLITION	FILE	NAME: C-3.0	DEMO_PLA	N.DWG
ONED BY WELLS I	IONITORING WELLS ARE ' OTHERS PRIOR TO CO FOUND BY CONTRACTOF ER'S ATTENTION IMMEDI	NSTRUCTION. ANY TO BE BROUGHT	DRA	WN BY:	JDR	
ONSTRUC G PAVILI	TION AT THE LOCATION ONS, BASKETBALL COU	OF THE WELL. RTS AND TENNIS	СНЕ	CKED BY:	PJD	
1AIN. Round A	HEIR CORRESPONDING E ND OUTDOOR GYM DEM /AL AND DISPOSAL OF	OLITION SHALL	DAT	E:	DECEMBER 20	015
	CURBS AND ASSOCIATE		DRA	WING TITLE:		
			S	ITE DEMO	LITION PL	.AN
N	BID SE		DRA	WING NUMBER:		
wavs ca	ll 811 two full business o	lavs before vou dig				

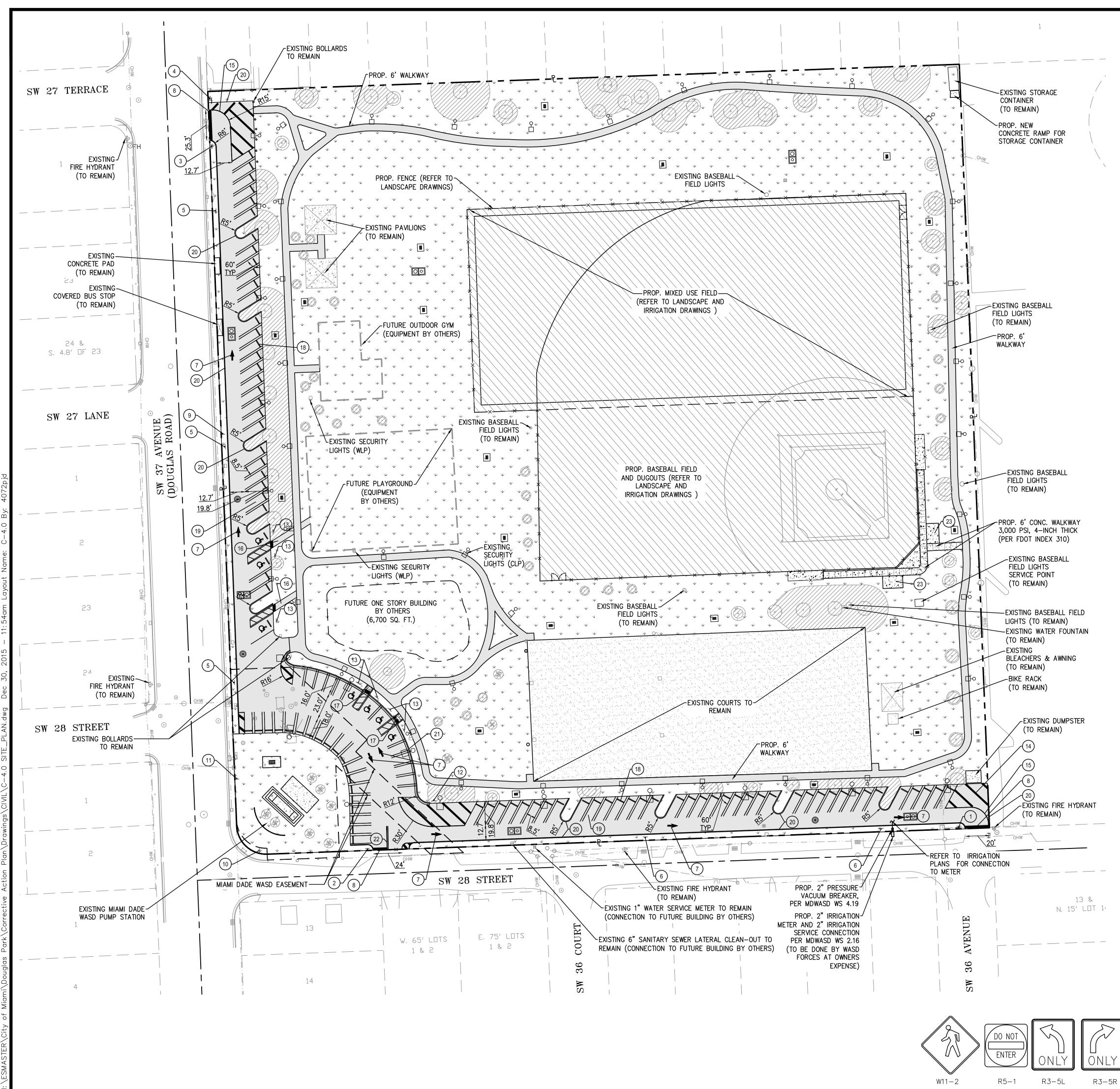


- ALL WASD OWNED FACILITIES ARE TO REMAIN. ANY DAMAGE TO THE EXISTING FACILITY SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR IS TO USE EXTREME CAUTION WHEN WORKING WITHIN THE WASD EASEMENT. IN THE EVENT OF AN EMERGENCY REGARDING THE PUMP STATION PLEASE CALL THE WASD 24HR EMERGENCY LINE

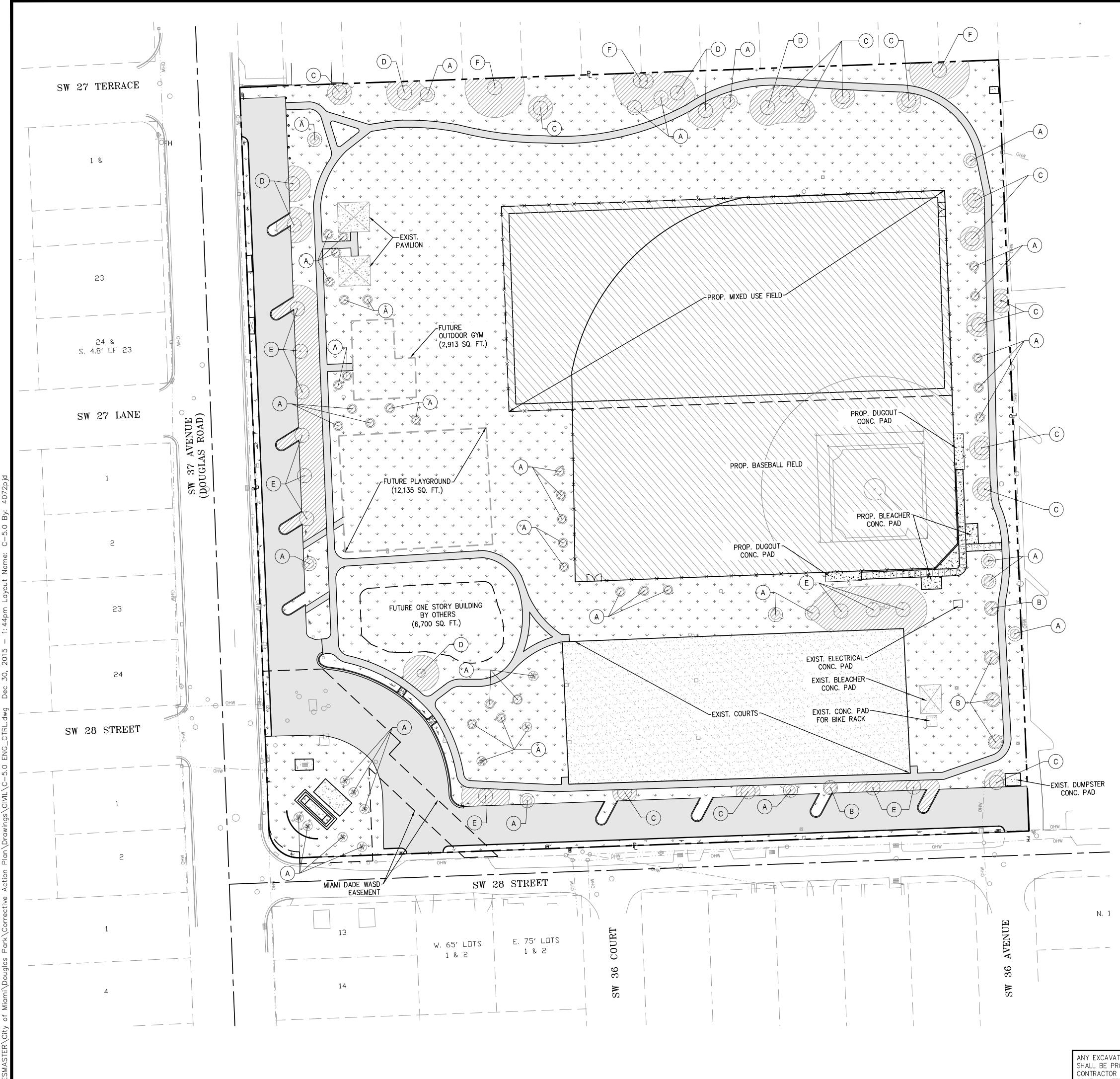
3. ACCESS TO ALL WASD VALVES, MANHOLES AND VAULTS MUST BE MAINTAINED AT ALL TIME IN THE INTEREST OF

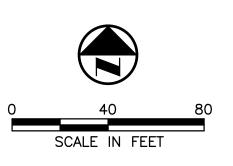
4. ANY ALTERATION TO WASD'S EXISTING PUMP STATION MUST BE REVIEWED AND APPROVED BY WASD. 5. ALL VALVE, VAULT AND MANHOLE COVERS MUST BE ADJUSTED TO FINAL ELEVATION.

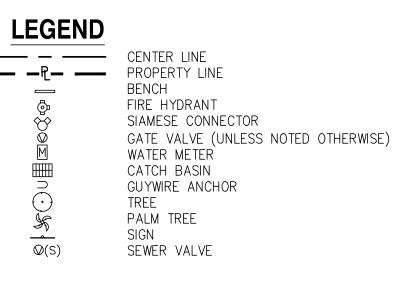




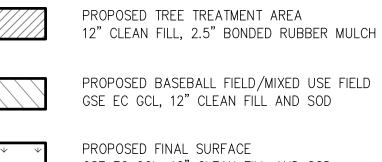
LEGEND				SCS ENGINE	EDC
	CENTER LINE			SCS ENGINE STEARNS, CONRAD AND CONSULTING ENGINEE	SCHMIDT
ନ୍ ୍ଲ୍	PROPERTY LINE BENCH FIRE HYDRANT		80	7700 N. KENDALL DRIVE, SUITE 300 PH. (305) 412-8185 FAX. (305) CERTIFICATE OF AUTHORIZATIO	412-8105 FL
谷 〇 〇 一 一 一 一 一 一 一 一 一 一 一 一 一	SIAMESE CONNECTOR GATE VALVE (UNLESS NO	SCALE IN FEE	. I	SUBCONSULTANT:	
	WATER METER CATCH BASIN GUYWIRE ANCHOR				
	TREE PALM TREE SIGN				
	SEWER VALVE				
1. EXISTING CONDIT	IONS PRESENTED ARE BASED RMATION OBTAINED BY EXIST				
OWNER AND THE	TOPOGRAPHIC SURVEY PRO P.A. 6500 NORTH ANDREWS	VIDED BY KEITH			
NO.19004C.	533309 PHONE NO. (954) FIELD VERIFY EXISTING CON				
NOTIFY ENGINEEF CONSTRUCTION.	R OF ANY DISCREPANCIES PR	RIOR TO			
AND ABOVE GRC	TO PROTECT ALL EXISTING TO UTILITIES LOCATED IN TO COORDINATE WITH CITY	HE SITE AREA.		PROFESSIONAL SEAL:	
	Y CONFLICTS PRIOR TO CON	7			
ENGINEERING CC	NTROL PLAN SHEET C-5.0				
PROPOSED	CALL OUT LEGE	ND			
1 PROP. R1-1 (FACING NORTH). REINSTALL	R5—1 (FACING SOUTH)		PETER J DUENO, I	PF
	FACING NORTH)	· · · · · · · · · · · · · · · · · · ·		FL LICENSE NO. 7 SCS ENGINEERS	3781
RELOCATE ANI	FACING EAST) AND R5-1 (F.	ACING WEST) (FACING EAST) AND EXISTING D1-3 '	'DOUGLAS	PROJECT NUMBER: 09213	010.43
$\begin{pmatrix} 4 \\ \end{pmatrix}$ RD SW 37 AV	'& "SW 27 TR". PROP. R1-			PROJECT NAME & ADDRESS	
\bigcirc	(FACING EAST) (FACING NORTH)				
\bigcirc	TIVE THERMOPLASTIC THROU	GH LANE USE DIRECTIONAL ARROW PE	ER FDOT		
	, ,	CH SOLID WHITE LINE (STOP BAR)		DOUGLAS P CORRECTIVE ACTIC	
9 REINSTALL EXI	STING W11-2 (FACING SOUTI	1)		2795 SW 37 AV MIAMI, FL	
(10) REINSTALL EXI "SW 28 ST"	STING R1–1 (FACING EAST)	AND D1-3 "DOUGLAS RD SW 37 AVE"	"AND	,,	
(11) REINSTALL EXI	STING R10-7 (FACING SOUT	+)			
	(FACING SOUTH)		OT	CLIENT NAME & ADDRESS:	
INDEX 17346	IIVE IHERMOPLASIIC ADA P	ARKING SIGN AND MARKINGS; PER FD		SUCCESSION OF ALL ALL ALL ALL ALL ALL ALL ALL ALL AL	
	TIVE THERMOPLASTIC 18"SOL	ID WHITE, 45 DEGREE -10'C/C SPAC	ING		
(16) PROP. 6-FT V	VIDE ADA ACCESS; 1-INCH 1	HICK S-III ASPHALT WITH 6-INCH		CITY OF MIAN CAPITAL IMPROVEMENT	
	E; DETECTABLE WARNINGS F R-E CURB RAMP WITH DETE	'ER FDOT INDEX 304 CTABLE WARNINGS PER FDOT INDEX (304	444 SW 2ND AVE MIAMI, FLORIDA (
18 PROP. WHEEL	STOP; AS PER CITY OF MIA	MI ENGINEERING STANDARDS, 35–85–	41.	REV DESCRIPTION	DATE
$\tilde{\mathbf{O}}$		EERING STANDARDS, 35-85-33.		\triangle	
	3 (TYP); PER CITY OF MIAM 3 (TYP); PER FDOT INDEX 3	ENGINEERING STANDARDS, 35-85-3	3.		
$\widetilde{\mathbf{O}}$		BLE YELLOW LINE; PER FDOT INDEX 1	7346	$ \land $	
		DA, NATIONAL RECREATION SYSTEMS, IRAL DRAWINGS FOR BLEACHER PAD)	INC.		
	ZONING DATA			SCALE: AS NO	TED
MIAMI 21 ZONING		CIVIC SPACE ZONE		FILE NAME: C-4.0 SITE	_PLAN
LAND USE DESIGNATIO		AND RECREATION AND OPEN SPACE 8 SQ FT (9.47 AC) 1009	7.	DRAWN BY: JDR	
FEMA FLOOD ELEVATIO	MAP NU	E "X" ELEVATION IMBER 12086C0457L		CHECKED BY: PJD	
MIAMI WATER TABLE	OCTOB	ER): 2.80 FT-NGVD			BER 2015
	SPACES REQUIRED/EXIST	SPACES PROVIDED		DRAWING TITLE:	
TOTAL ACCESSIBLE PARKING	7	7			
TOTAL PARKING	89	96			
				SITE PLAI	N
		BID SET			
	DO NOT	NOT FOR CONSTRUCTION		DRAWING NUMBER:	
STOP CONE WAY	\geq BLOCK	lways call 811 two full business days b	etore you dig	C-4.(า
R0-1	INTERSECTION	Sunshing EII.	com		
	R10-7			SHEET 7	of 17







ENGINEERING CONTROLS



GSE EC GCL, 12" CLEAN FILL AND SOD

PROPOSED ASPHALT PAVEMENT PROPOSED CONCRETE PAVEMENT

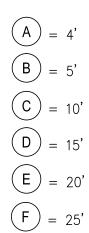
EXIST. CONCRETE PAVEMENT

* 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.

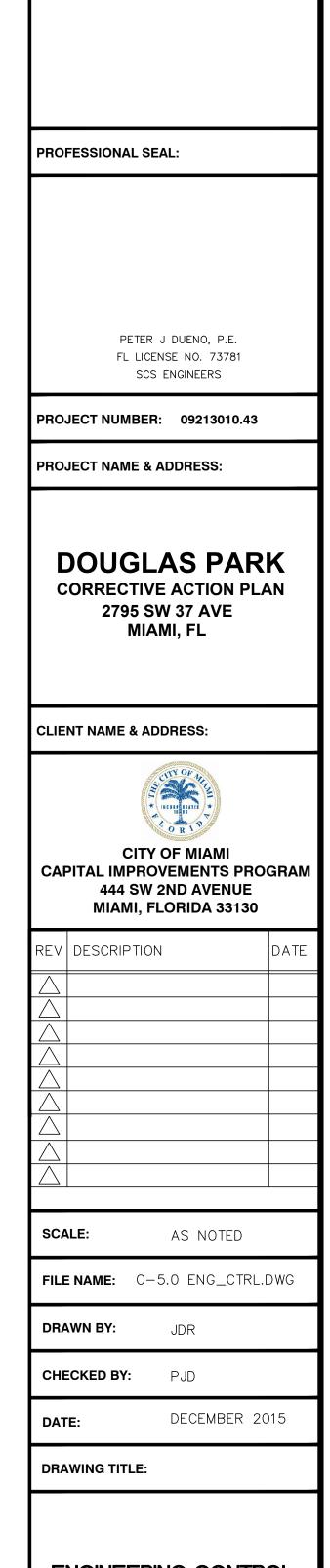
TREE TREATMENT MIN. RADIUS

(FROM CENTER OF TREE/PALM)



NOTES

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- 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 SCHMID CONSULTING ENGINEERS, INC. 7700 N. KENDALL DRIVE, SUITE 300, MIAMI, FL 3315 PH. (305) 412-8185 FAX. (305) 412-8105 FL **CERTIFICATE OF AUTHORIZATION NO. 00004892**

SUBCONSULTANT:



C - 5.0

of **17**

8

DRAWING NUMBER:

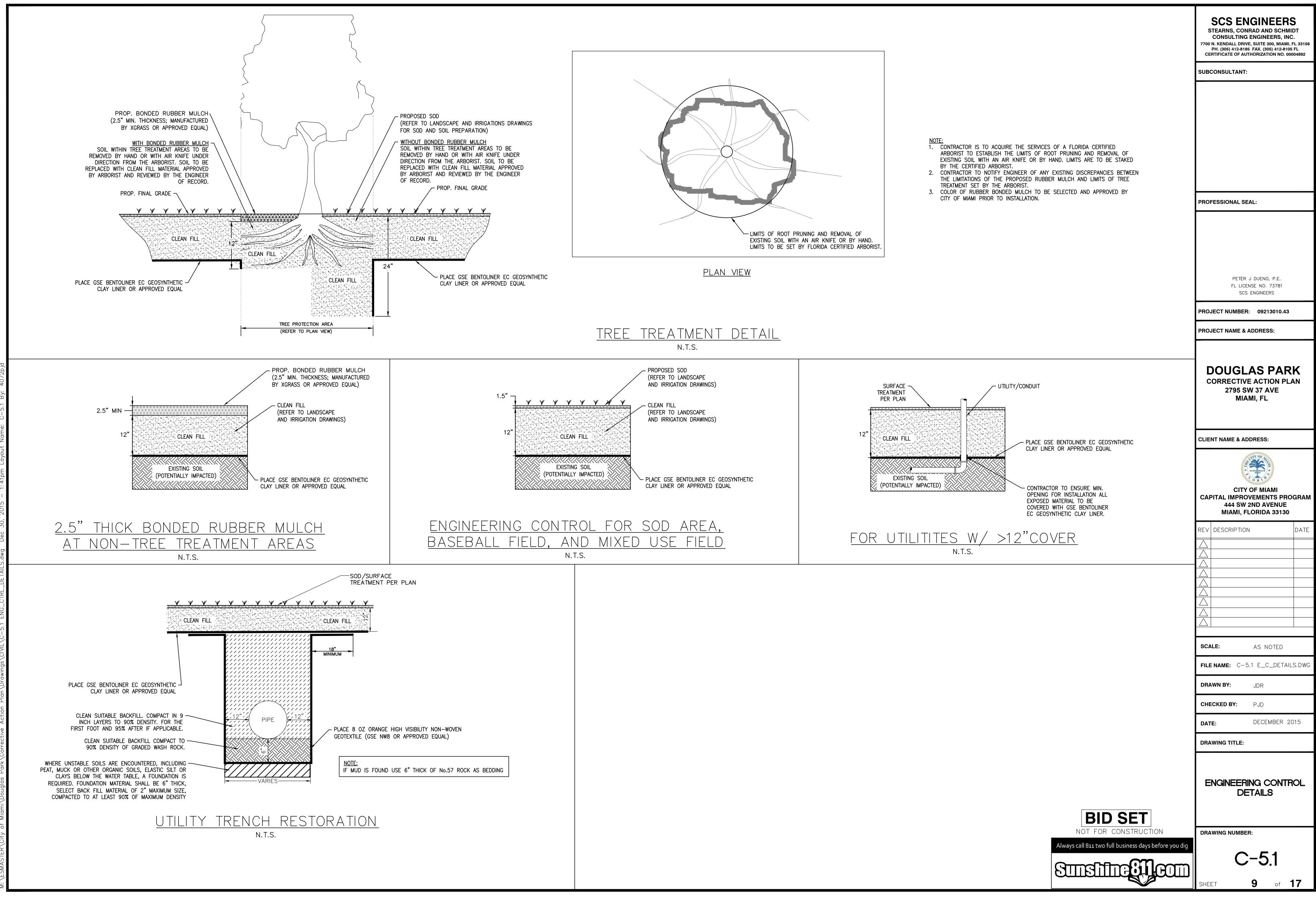
HEET

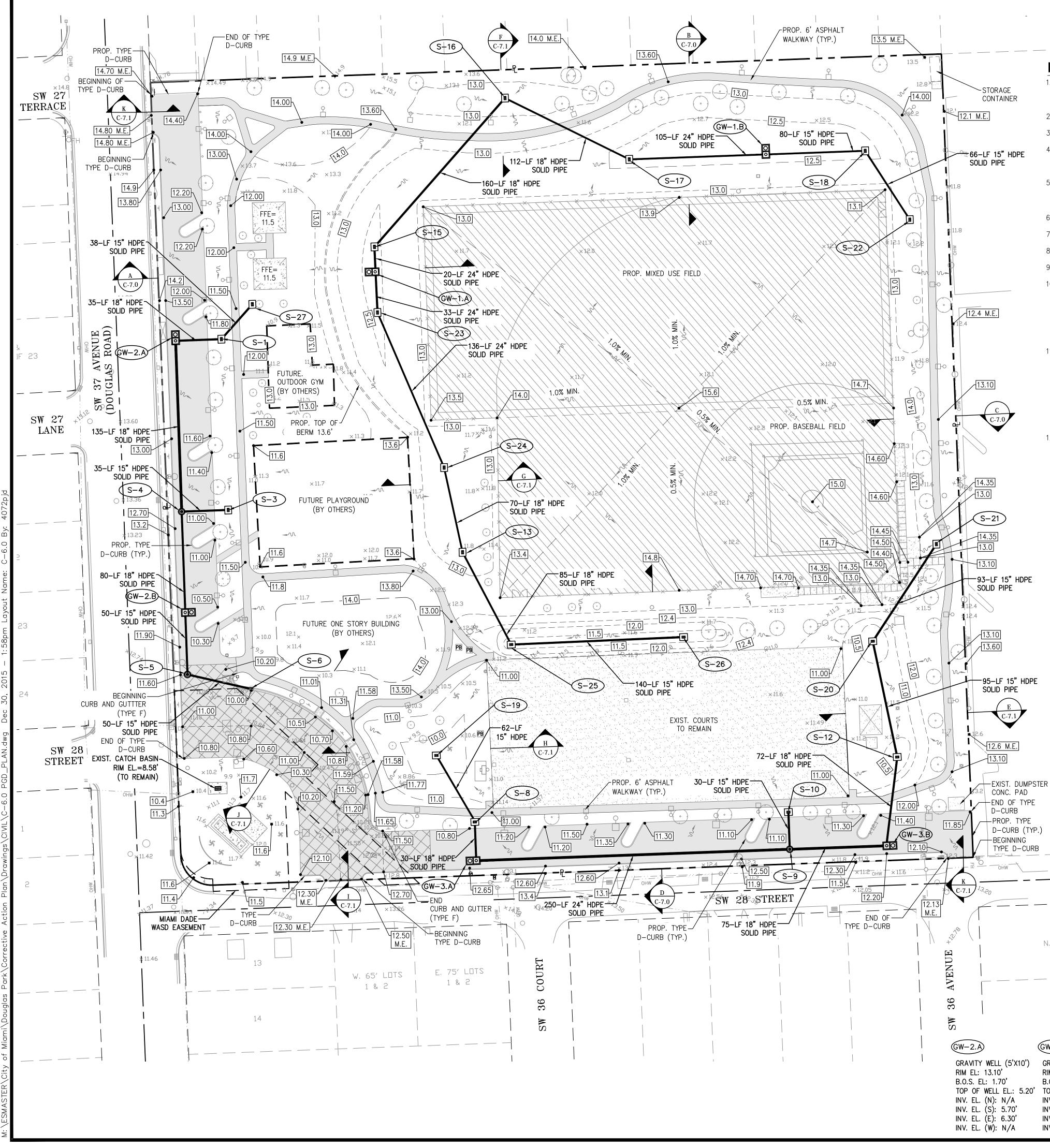
BID SET NOT FOR CONSTRUCTION

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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.





NOTES

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- 2. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
- EXISTING OR PROPOSED DRAINAGE INLETS. 4. 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 5. 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. 6. ALL DISTURBED SWALE AREAS SHALL BE RESTORED TO EXISTING CONDITIONS OR BETTER.
- 7. ALL INLETS ARE TO RECEIVE 3,000 PSI CONCRETE APRONS REINFORCED WITH FIBER MESH.
- GRADE UNLESS OTHERWISE NOTED. 9. ANY EXISTING UTILITIES DAMAGED BY THE ON-GOING
- CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR IN KIND. 10. 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.
- 11. CONTRACTOR TO BE CAUTIOUS OF THE EXISTING WASD UTILITIES LOCATED WITHIN THE SPECIALIZED PREPARATION AREA. SPECIALIZED PREPARATION SHALL CONSIST OF S-III ASPHALT SURFACE COURSE (2"THICK; 2 LIFTS); LIMEROCK BASE (8"THICK; LBR 100: 98% COMPACTION) OR ASPHALTIC MATERIAL FDOT SPECIFIED ABC-3 OR EQUIVALENT WITH A MIN. MARSHALL STABILITY OF 1,000 LBS; TYPE B STABILIZED (24" THICK; LBR 40; 95% COMPACTION) AS SPECIFIED BY FDOT REQUIREMENTS. COMPACTION PERFORMED WITHIN THIS AREA SHALL BE WITH 5 TON ROLLER.
- 12. 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.

S-1	\langle
CATCH BASIN	CA
FDOT TYPE P (42"ø)	D-
RIM EL: 11.30'	RI
B.O.S. EL: 2.90'	В.
INV. EL. (N): N/A	IN
INV. EL. (S): N/A	IN
INV. EL. (Ė): 6.40'	IN

S-8	S-9
CATCH BASIN	MANHOLE
FDOT TYPE P (42"ø)	FDOT TYP
RIM EL: 10.30'	TYPE A F
B.O.S. EL: 2.20'	RIM EL: 1
INV. EL. (N): 5.70'	B.O.S. EL:
INV. EL. (S): 5.70'	INV. EL. (
W/ BAFFLE	INV. EL. (
INV. EL. (E): N/A	INV. EL. (
INV. EL. (W): N/A	INV. EL. (

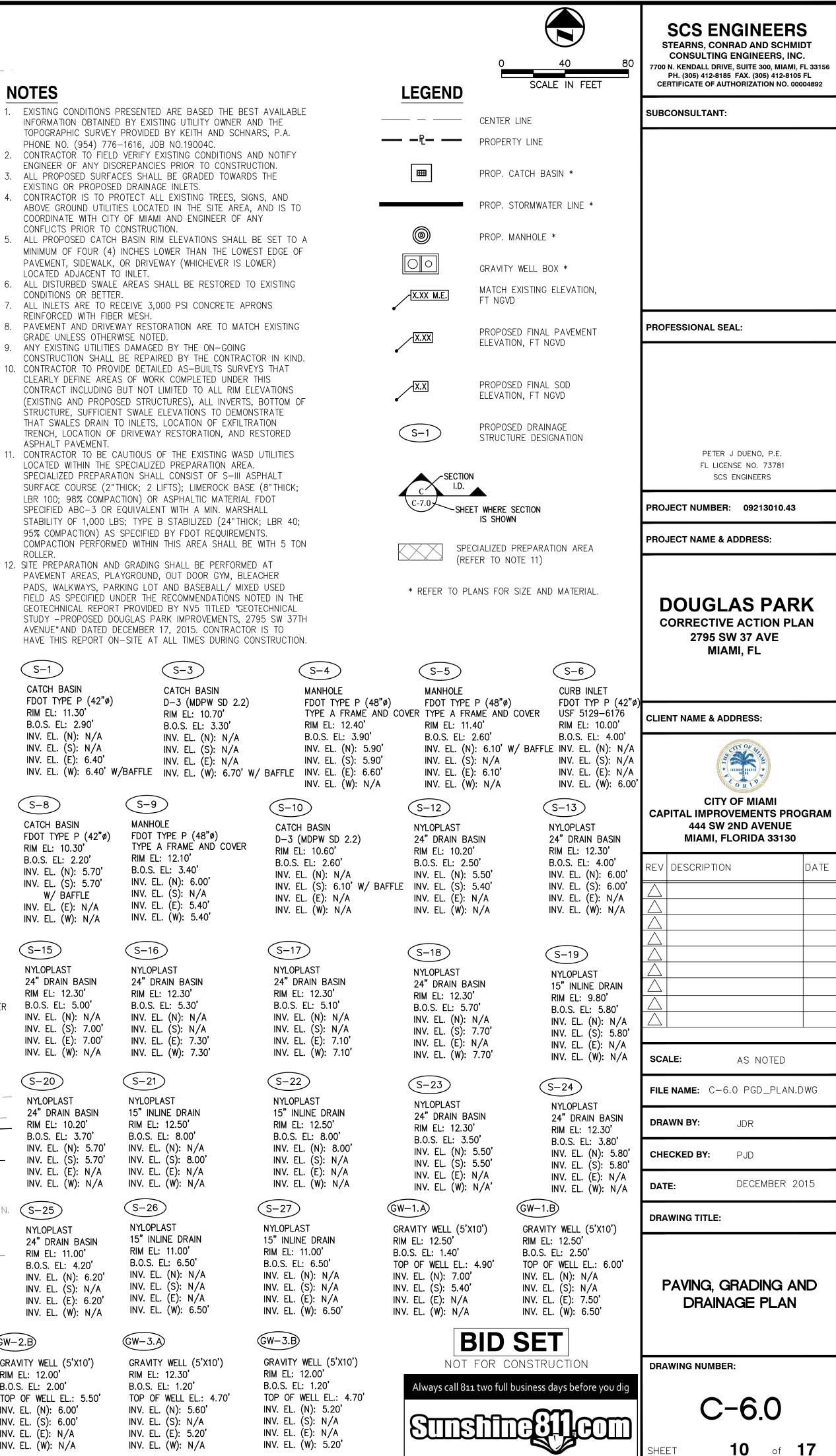
S-15	S-16
NYLOPLAST	NYLOPLAS
24" DRAIN BASIN	24" DRAII
RIM EL: 12.30'	RIM EL: 1
B.O.S. EL: 5.00'	B.O.S. EL:
INV. EL. (N): N/A	INV. EL. (
INV. EL. (S): 7.00'	INV. EL. (
INV. EL. (E): 7.00'	INV. EL. (
INV. EL. (W): N/A	INV. EL. (

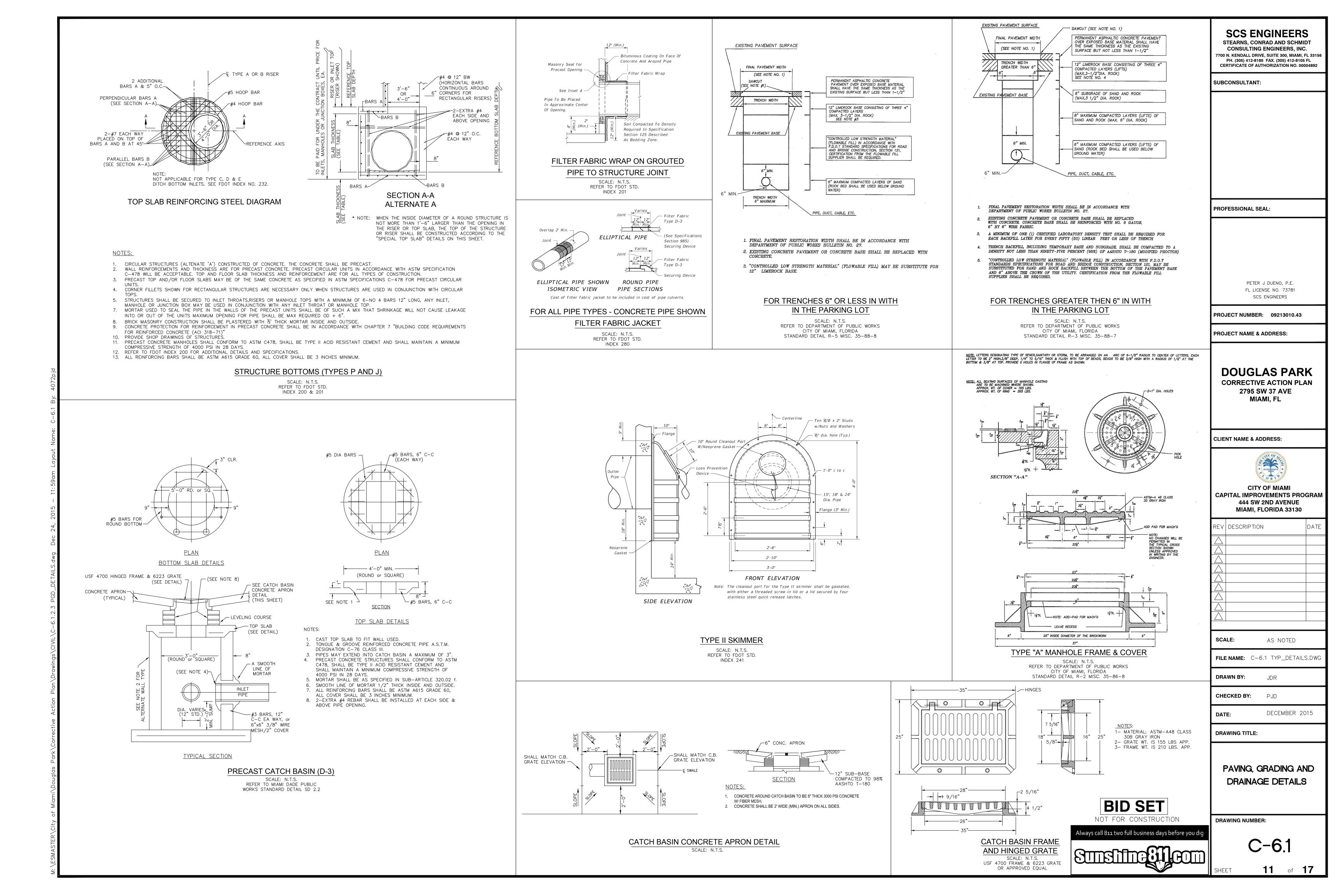
S-20	S-21
NYLOPLAST	NYLOPLAS
24" DRAIN BASIN	15" INLINE
RIM EL: 10.20'	RIM EL: 12
B.O.S. EL: 3.70'	B.O.S. EL:
	INV. EL. (1
	INV. EL. (S
INV. EL. (E): N/A	INV. EL. (E
INV. EL. (W): N/A	INV. EL. (V
(S-25)	S-26
	NYLOPLAST 24" DRAIN BASIN RIM EL: 10.20' B.O.S. EL: 3.70' INV. EL. (N): 5.70' INV. EL. (S): 5.70' INV. EL. (E): N/A INV. EL. (W): N/A

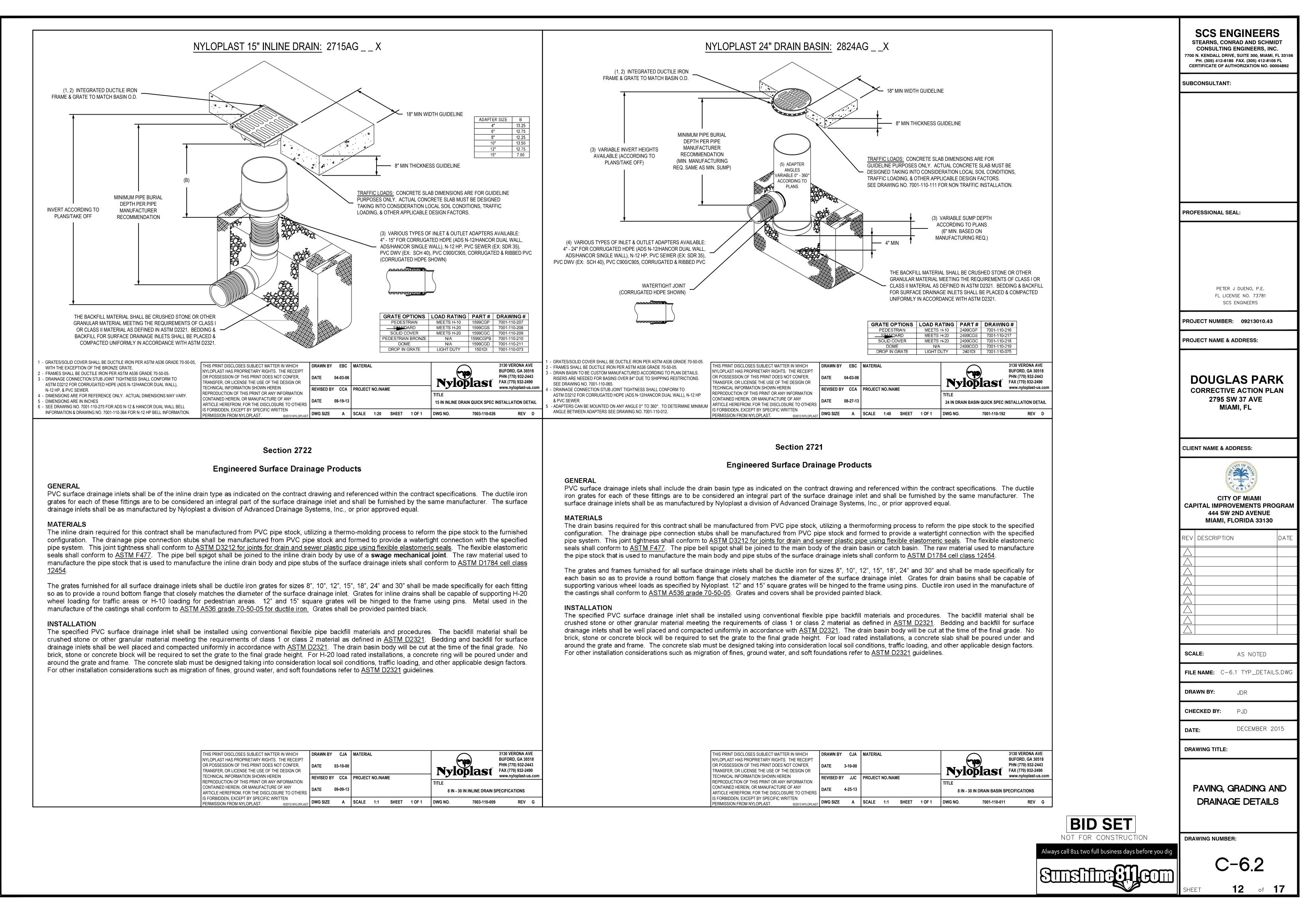
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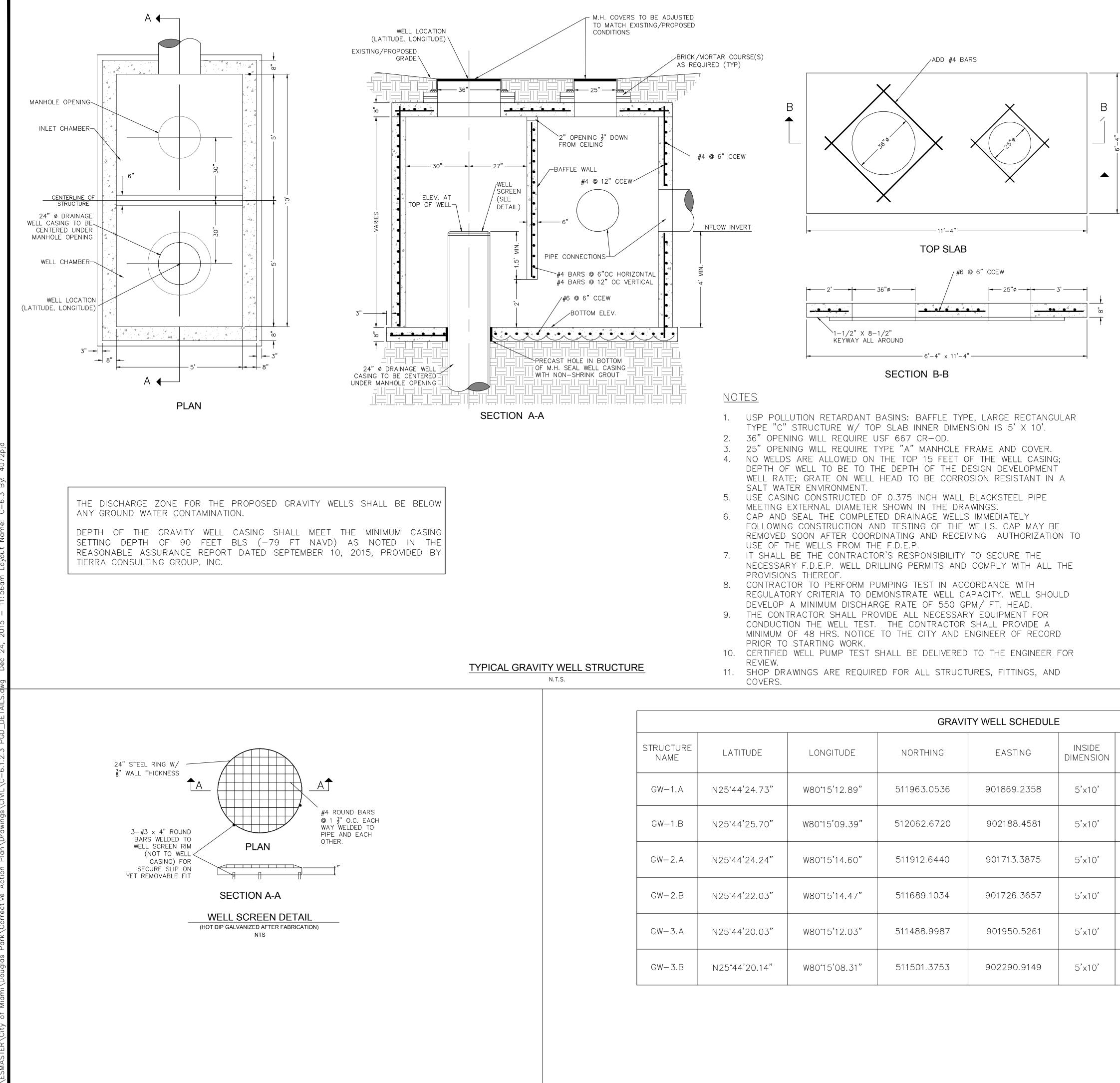
	\smile
(5 ' X10')	GRAVITY WELL (5'X10')
	RIM EL: 12.00'
•	B.O.S. EL: 2.00'
L.: 5.20'	TOP OF WELL EL.: 5.50'
/A	INV. EL. (N): 6.00'
70'	INV. EL. (S): 6.00'
30'	INV. EL. (E): N/A
/A	INV. EL. (Ŵ): N/A

GW-3.A) RIM EL: 12.30' B.O.S. EL: 1.20' INV. EL. (N): 5.60' INV. EL. (S): N/A

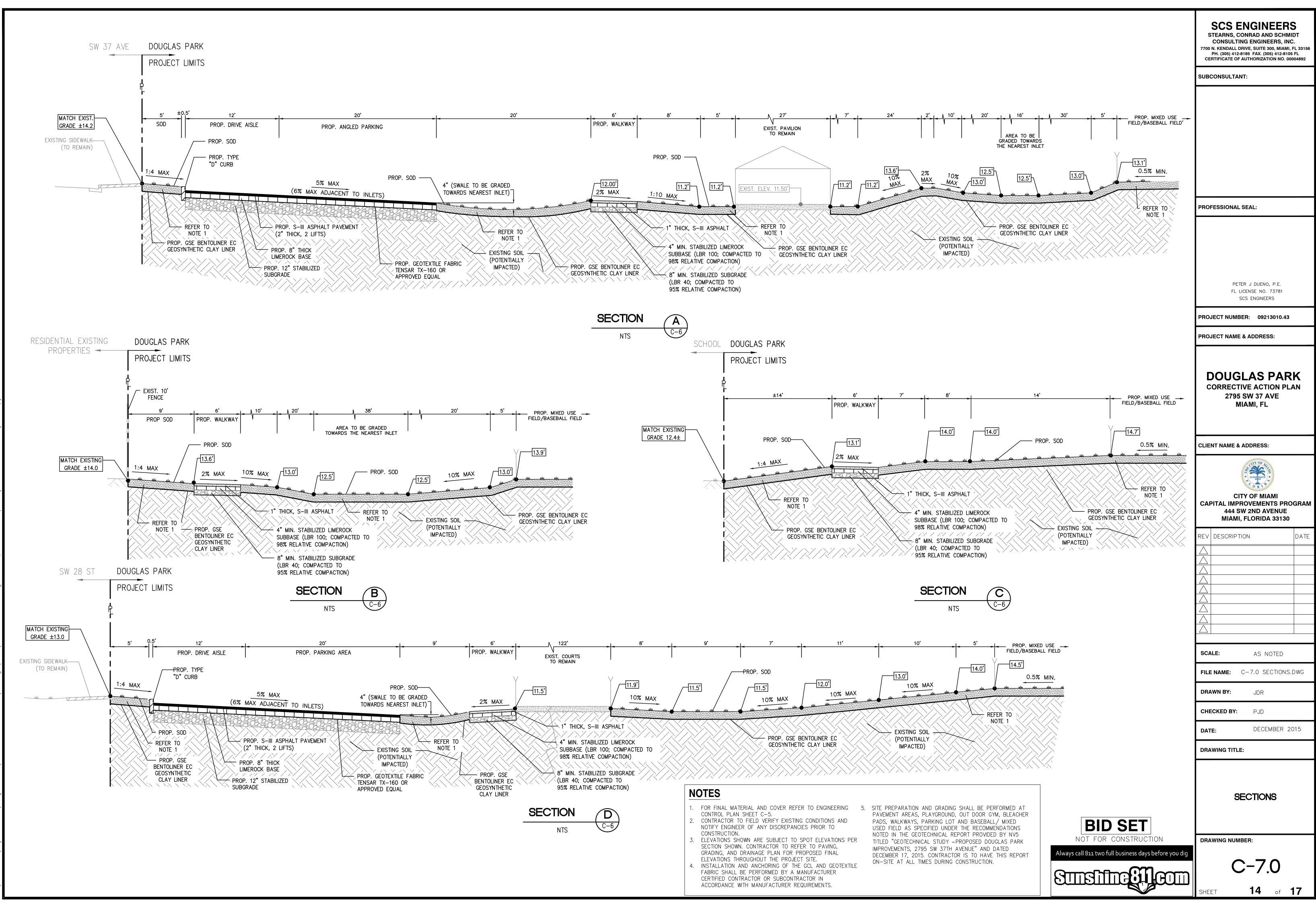


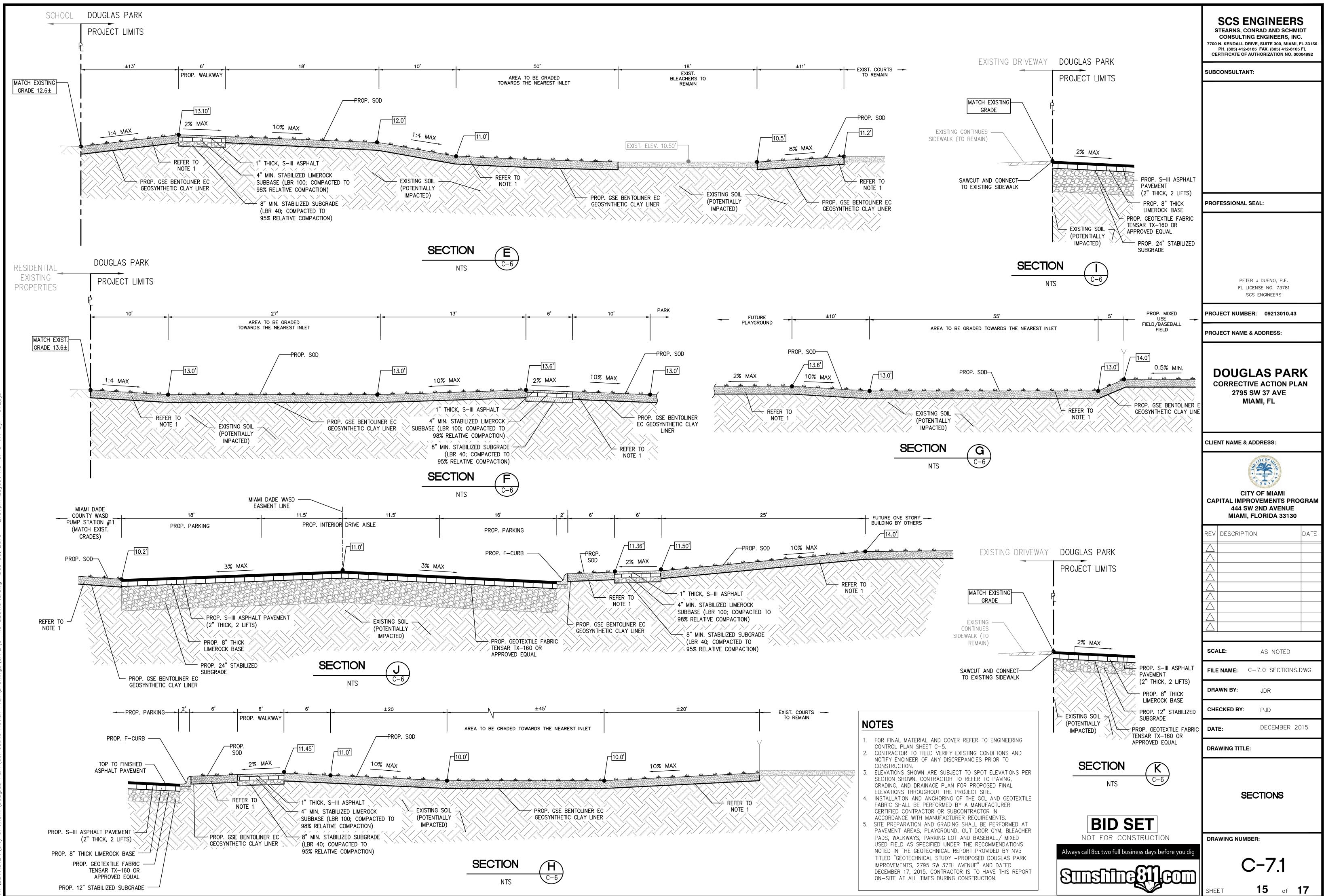


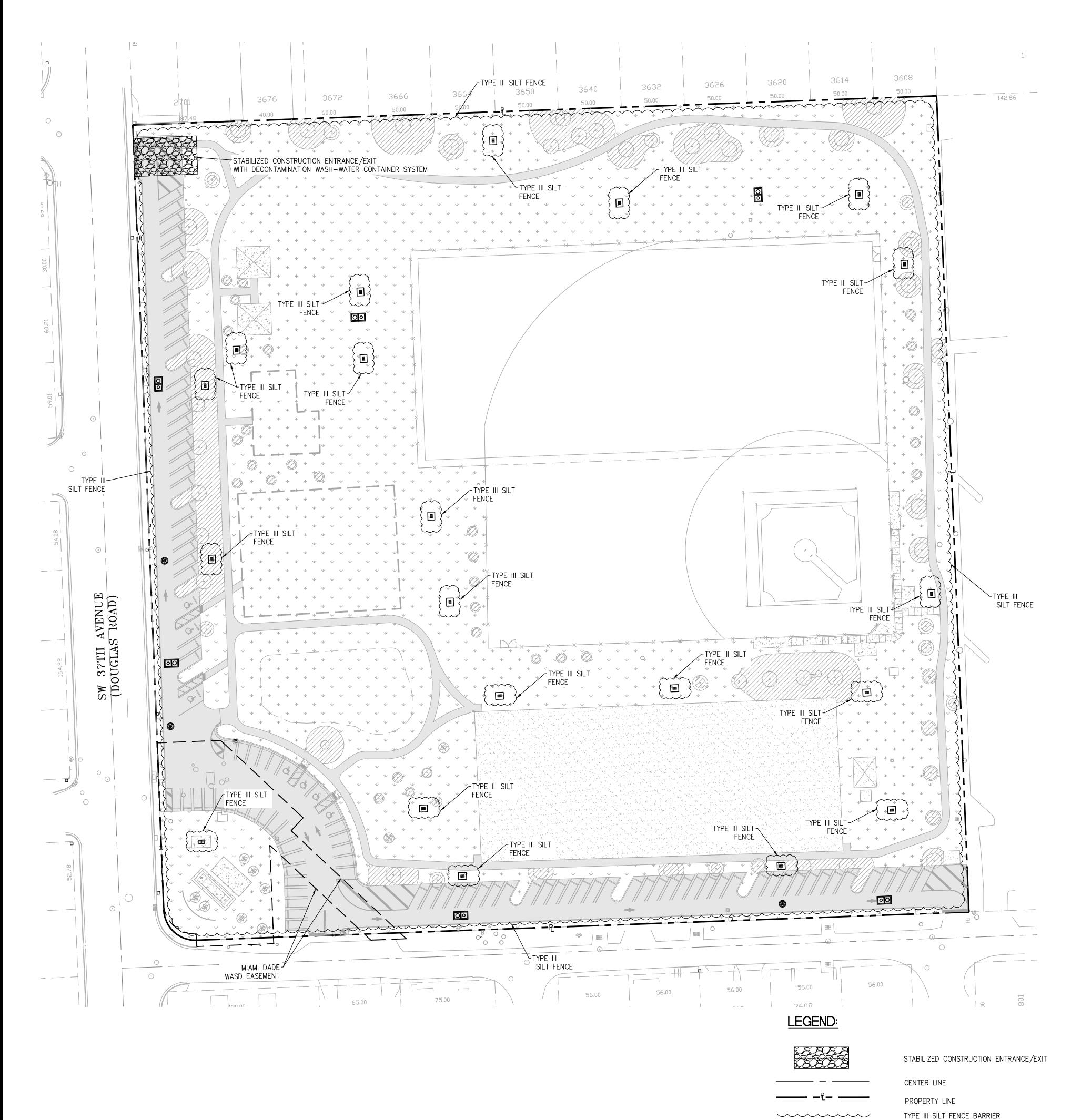




OVERS TO BE ADJUSTED TCH EXISTING/PROPOSED IONS											SCS ENGINEE STEARNS, CONRAD AND SCH CONSULTING ENGINEERS,	IMIDT INC.
	MORTAR COURSE(S)		/ADD #4 BA	RS							7700 N. KENDALL DRIVE, SUITE 300, MIA PH. (305) 412-8185 FAX. (305) 412-8 CERTIFICATE OF AUTHORIZATION NO.	3105 FL
	INFLOW INVERT #4 @ 6" CCEW INFLOW INVERT NOTES 1. USP POLI TYPE "C" 2. 36" OPEN 3. 25" OPEN 4. NO WELDS DEPTH OF	STRUCTURE W/ TO NING WILL REQUIRE T NING WILL REQUIRE T S ARE ALLOWED ON F WELL TO BE TO TH	TOP SLAB 1/2" AROUND 6'-4" x 11'-4' SECTION B-B BASINS: BAFFLE TYP P SLAB INNER DIMEN	© 6" CCEW = 25"ø E, LARGE RECTANG ISION IS 5' X 10'. RAME AND COVER. OF THE WELL CASIN ESIGN DEVELOPMEN	G; T		2. RI 3. OI 4. IN	ATERIAL: ASTM-A48 CL MG WT: 220 LBS. APP. UTER COVER WT: 220 L INER COVER WT: 220 L INER COVER WT: 190 L INER COVE	OLES.	/2 1 1/4		. 00004892
<u>STURE</u>	 USE CASI MEETING CAP AND FOLLOWIN REMOVED USE OF 1 IT SHALL NECESSAF PROVISION CONTRAC REGULATO DEVELOP THE CON CONDUCT MINIMUM PRIOR TO CERTIFIED REVIEW. 	EXTERNAL DIAMETER SEAL THE COMPLET G CONSTRUCTION AN SOON AFTER COOR THE WELLS FROM TH BE THE CONTRACTO RY F.D.E.P. WELL DR NS THEREOF. TOR TO PERFORM PU DRY CRITERIA TO DE A MINIMUM DISCHAR TRACTOR SHALL PRO ION THE WELL TEST. OF 48 HRS. NOTICE STARTING WORK.	F 0.375 INCH WALL SHOWN IN THE DRA TED DRAINAGE WELLS ND TESTING OF THE DINATING AND RECEI E F.D.E.P. OR'S RESPONSIBILITY ILLING PERMITS AND JMPING TEST IN ACC MONSTRATE WELL CA RGE RATE OF 550 GF OVIDE ALL NECESSAR THE CONTRACTOR TO THE CITY AND E SHALL BE DELIVERED ED FOR ALL STRUCT	WINGS. MMEDIATELY WELLS. CAP MAY E VING AUTHORIZATI TO SECURE THE COMPLY WITH ALL CORDANCE WITH APACITY. WELL SHO PM/ FT. HEAD. Y EQUIPMENT FOR SHALL PROVIDE A SHALL PROVIDE A INGINEER OF RECOF	ON TO THE ULD RD FOR						MIAMI, FL CLIENT NAME & ADDRESS: CITY OF MIAMI CAPITAL IMPROVEMENTS PI 444 SW 2ND AVENUE MIAMI, FLORIDA 3313 REV DESCRIPTION	E
											$\begin{array}{c} \underline{\frown} \\ \underline{\frown} \\ \underline{\frown} \\ \underline{\frown} \\ \underline{\frown} \end{array}$	
STRUCTURE NAME	LATITUDE	LONGITUDE	NORTHING	EASTING	INSIDE DIMENSION	RIM ELEVATION	TOP OF WELL ELEVATION	BOTTOM OF STRUCTURE	INVERT ELEVATION		$\begin{array}{c c} & \\ \hline \\$	
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)		SCALE: AS NOTED	
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)		FILE NAME: C-6.1 TYP_DET	AILS.DWG
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) 6.00'(N)		CHECKED BY: PJD DATE: DECEMBER	2015
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'(S)		DRAWING TITLE:	
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)		PAVING, GRADING DRAINAGE DETAI	
									BI	D SET		
									Always call 811 two	CONSTRUCTION	C-6.3	17
									L			







GENERAL NOTES

EROSION CON

- 1. THE CONTRACTOR SHALL IN REGULATIONS AND COMPLY LIMITED TO TURBIDITY SCRE RESPONSIBLE FOR ALL DAMA
- 2. DISTURBED AREAS SHALL REQUIREMENTS UNTIL A PEI STABILIZATION REQUIREMEN
- 4. EROSION CONTROL MEASUR DITCH BOTTOM INLETS, DITC
- 5. 48 HOURS PRIOR TO COMM NATIONAL POLLUTION DISCH
- 6. THE CONTRACTOR SHALL W MAINTAIN THE FILTER FABRIC
- 7. THE SITE CONTRACTOR IS CONSTRUCTION AND ONLY W
- 8. SILT FENCES AND FILTER BA REQUIRED REPAIRS SHALL
- 9. CONTROL MEASURES IMPLEN FOR ROAD AND BRIDGE CON STORMWATER EROSION AND

EROSION AND SI

- 1. CONTRACTOR SHALL INSTALL LIMITS OF CONSTRUCTION PF
- 2. A GRAVEL ACCESS ROAD SH SITE.
- 3. TOP OF SOIL PILES AND DIST STABILIZED WITH SEED AND
- 4. DISTURBED PORTIONS OF TH PLANTINGS NO LATER THAN

OTHER CONTRO

- 1. DUMP TRUCKS IMPORTING F
- 2. ALL HAZARDOUS WASTE MAT SITE PERSONNEL SHALL BE F
- 3. A STABILIZED CONSTRUCTIO TO THE SITE ENTRANCE SHA
- 4. PROTECTIVE BARRIERS WILL REMAIN IN PLACE UNTIL COM DURING CONSTRUCTION.

MAINTENANCE A

- 1. THE GENERAL CONTRACTOR' AND REPAIR ACTIVITIES, AND RESPONSIBILITIES SHALL RE SEDIMENT CONTROLS USED
- 2. ALL EROSION AND SEDIMENT ALL CONTROLS MUST BE IN C COMPLETED.
- 3. BUILT UP SEDIMENT WILL BE I INSPECTED FOR DEPTH OF SE
- 5. TEMPORARY AND PERMANEN 6. THE INSPECTOR SHALL RECO PURPOSE. THESE REPORTS

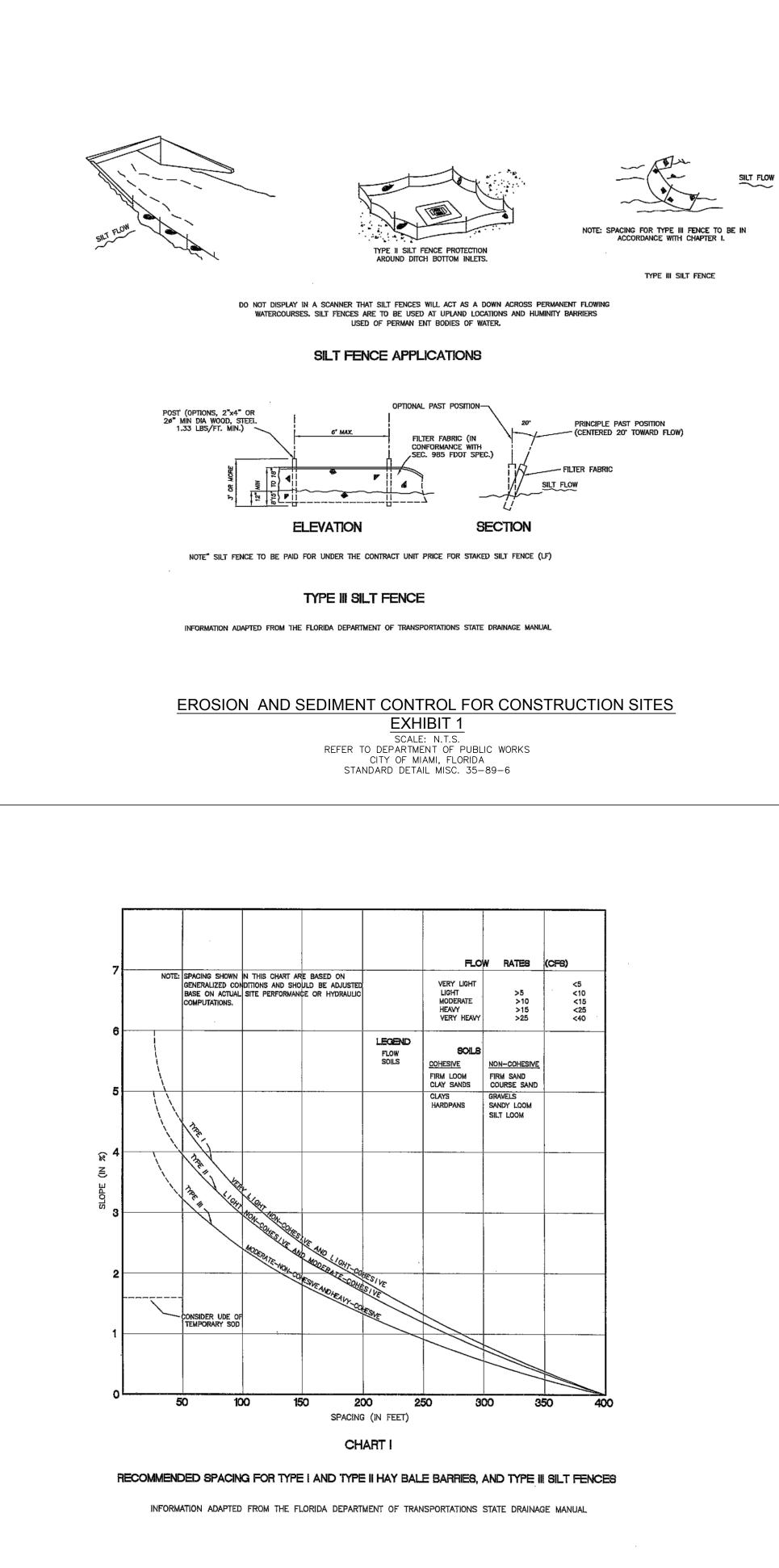
PRACTICAL BUT IN NO CASE SEQUENCE OF N

- 1. INSTALL TYPE III SILT FENCE
- 2. INSTALL STABILIZED CONSTR
- 3. COMMENCE SITE CONSTRUC
- 4. AS PROPOSED INLETS ARE C
- 5. INSTALL TEMPORARY SEED A THE LAST CONSTRUCTION A
- 6. INSTALL PERMANENT SEEDIN
- THE LAST CONSTRUCTION A 7. REMOVE ACCUMULATED SED
- 8. REMOVE TEMPORARY POLLU ACCORDING TO APPLICABLE

				SCS ENG	AND SCHMID	т
C	ENERAL NOTES:	0 40 80		CONSULTING ENO N. KENDALL DRIVE, SU PH. (305) 412-8185 FAX RTIFICATE OF AUTHOR	IITE 300, MIAMI, FI X. (305) 412-8105 F	L 33156 FL
DIS	CONTRACTOR SHALL COMPLY WITH ALL TERMS AND CONDITIONS OF THE U.S. ENVIRONMENTAL PR CHARGE ELIMINATION SYSTEM (NPDES) PERMIT AND THE FLORIDA DEPARTMENT OF ENVIRONMENTA IMENT AND EROSION CONTROLS AND STORM WATER MANAGEMENT MEASURES SHALL BE STRICTLY	ROTECTION AGENCY (EPA) NATIONAL POLLUTANT AL PROTECTION (FDEP) NPDES PERMIT. IN PARTICULAR,	SUB	CONSULTANT:		
THE ME	CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSIC ASURES FOR THE DURATION OF THE PROJECT. ONCE THE PROJECT HAS BEEN COMPLETED, THE CO FER MANAGEMENT MEASURES AND SHALL DISPOSE OF THEM ACCORDING TO CODE.	ON, SEDIMENTATION AND STORM WATER MANAGEMENT				
	ROSION CONTROL AND GRASSING/SODDING	G NOTES:				
1.	THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN EROSION CONTROL MEASURES AS NECES REGULATIONS AND COMPLY WITH STATE WATER QUALITY CRITERIA FOR STORMWATER DISCHAR LIMITED TO TURBIDITY SCREENS, MULCHING, HAY BALES, AND SILT FENCE. IF A WATER QUALITY RESPONSIBLE FOR ALL DAMAGE AND ALL COSTS WHICH MAY RESULT INCLUDING LEGAL FEES, CO	GE. EROSION CONTROL MEASURES INCLUDE BUT ARE NOT VIOLATION OCCURS, THE CONTRACTOR SHALL BE WHOLLY				
2.	DISTURBED AREAS SHALL BE SEEDED/GRASSED, FERTILIZED, MULCHED, AND MAINTAINED IN A REQUIREMENTS UNTIL A PERMANENT VEGETATIVE COVER IS ESTABLISHED. THE CONTRACTOR STABILIZATION REQUIREMENTS.	ACCORDANCE WITH CITY, COUNTY, STATE, AND FEDERAL				
3. 4.	EROSION CONTROL MEASURES SHALL BE MAINTAINED FOR THE ENTIRE DURATION OF THE PROJECT		PRO	FESSIONAL SEAL:		
5.	DITCH BOTTOM INLETS, DITCHES, AND DOWNSTREAM PORTIONS OF STREAMS AND TIDAL WATERS 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM RULES AND REGULATIONS.	ADJACENT TO CONSTRUCTION.				
6.	THE CONTRACTOR SHALL WRAP STORM GRATES IN FILTER FABRIC TO PREVENT SEDIMENTATION MAINTAIN THE FILTER FABRIC UNTIL THE ASPHALT/CONCRETE PAVEMENT IS PLACED.	ON OF THE STORM SEWER SYSTEM. CONTRACTOR SHALL				
7.	THE SITE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION AND CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABILIZED.	SEDIMENT CONTROL DEVICES AFTER COMPLETION OF		PETER J DU	JENO, P.E.	
8.	SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL . REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.	AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY		FL LICENSE SCS ENG		
9.	CONTROL MEASURES IMPLEMENTED ON SITE SHALL COMPLY WITH FLORIDA DEPARTMENT OF TI FOR ROAD AND BRIDGE CONSTRUCTION, STATE OF FLORIDA EROSION AND SEDIMENT CONTRO		PRO	JECT NUMBER: (09213010.43	
F	STORMWATER EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL		PRO	JECT NAME & ADD	RESS:	
	CONTRACTOR SHALL INSTALL A TYPE III SILT FENCE, AS PER FLORIDA EROSION AND SEDIMENT CC	ONTROL DESIGNER AND REVIEWER MANUAL AROUND THE				
2.	LIMITS OF CONSTRUCTION PRIOR TO ANY DEMOLITION, FILLING OR GRADING OF ANY PORTIONS OF A GRAVEL ACCESS ROAD SHALL BE CONSTRUCTED TO MINIMIZE THE EFFECTS OF TRUCK TRAFFIC SITE.				-	
3.	TOP OF SOIL PILES AND DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY TEN STABILIZED WITH SEED AND MULCH NO LATER THAN 14 DAYS FROM THE LAST CONSTRUCTION ACTIVITY ACTIVITY ACTIVITY AND A			2795 SW 3 MIAMI,	7 AVE	
4.	DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY PERMANENTLY CEASES SHAPLANTINGS NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY.	ALL BE STABILIZED WITH PERMANENT SEED, SOD AND				
(OTHER CONTROLS					
1.	DUMP TRUCKS IMPORTING FILL MATERIALS TO THE SITE SHALL COVER THEIR LOADS WITH A TARPA	AULIN TO AVOID UNNECESSARY GENERATION OF DUST.	CLIE	NT NAME & ADDRE	-55:	
2.	ALL HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF AS PER LOCAL AND/OR STATE REGUL 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 TO THE SITE ENTRANCE SHALL BE SWEPT DAILY TO REMOVE ANY EXCESS OF MUD, DIRT, OR ROCK			CITY OF	MIAMI	
4.	PROTECTIVE BARRIERS WILL BE INSTALLED AT THE PERIMETER OF PRESERVED VEGETATION AT T REMAIN IN PLACE UNTIL COMPLETION OF CONSTRUCTION. TEMPORARY SIGNS IDENTIFYING THE P DURING CONSTRUCTION.		CA	PITAL IMPROVEN 444 SW 2ND MIAMI, FLOR	AVENUE	GRAM
N	IAINTENANCE AND INSPECTION PROCEDURES		REV	DESCRIPTION		DATE
1.	THE GENERAL CONTRACTOR'S SITE SUPERINTENDENT SHALL SELECT THREE INDIVIDUALS WHO W AND REPAIR ACTIVITIES, AND FILLING OUT THE INSPECTION MAINTENANCE REPORT. PERSONNELS RESPONSIBILITIES SHALL RECEIVE PROPER TRAINING IN ALL THE INSPECTION AND MAINTENANCE SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER.	SELECTED FOR INSPECTION AND MAINTENANCE	\square			
2.	ALL EROSION AND SEDIMENTATION CONTROLS SHALL BE INSPECTED EVERY 7 DAYS OR WITHIN 24 ALL CONTROLS MUST BE IN GOOD OPERATING CONDITION UNTIL THE AREA THEY PROTECT HAS BI COMPLETED.					
3.	BUILT UP SEDIMENT WILL BE REMOVED FROM THE SILT FENCE WHEN IT HAS REACHED ONE THIRD INSPECTED FOR DEPTH OF SEDIMENT, TEARS, IF FABRIC IS SECURELY ATTACHED TO THE FENCE F		\square			
5. 6.	TEMPORARY AND PERMANENT SEEDING AND PLANTING SHALL BE INSPECTED FOR BARE SPOTS, V THE INSPECTOR SHALL RECORD ANY DAMAGES OR DEFICIENCIES IN THE CONTROL MEASURES ON		\square			
	PURPOSE. THESE REPORTS SHALL DOCUMENT THE INSPECTION OF ALL POLLUTION PREVENTION I MAINTENANCE AND REPAIR. THE CONTRACTOR SHALL CORRECT DAMAGE OR PROVIDE MAINTENAL PRACTICAL BUT IN NO CASE LATER THAN 7 DAYS AFTER THE INSPECTION. FAILURE TO DO SO SHAL	MEASURES AND SHALL ALSO BE USED TO REQUEST NCE AS RECOMMENDED BY REPORTS AS SOON AS	SC	ALE: AS	S NOTED	
c	EQUENCE OF MAJOR ACTIVITIES		FILI	ENAME: C-S	9 SPPP.DWG	
1.	INSTALL TYPE III SILT FENCE AT BOUNDARIES OF PROPOSED CONSTRUCTION AND AROUND EXISTI	NG DITCH BOTTOM INLETS ONSITE.	DR	AWN BY: JC)R	
2.	INSTALL STABILIZED CONSTRUCTION EMTRANCE/EXIT WITH DECONTAMINATION WASH-WATER CON	NTAINER SYSTEM.	СН	ECKED BY: P	ID	
3. 4	COMMENCE SITE CONSTRUCTION ACTIVITIES. AS PROPOSED INLETS ARE CONSTRUCTED, INSTALL APPROPRIATE INLET PROTECTION AROUND EA	ACH				15
5.	INSTALL TEMPORARY SEED AND MULCH IN AREAS WHERE CONSTRUCTION TEMPORARILY CEASES		DA	DE: DE	ECEMBER 20	
6.	THE LAST CONSTRUCTION ACTIVITIES IN THAT AREA. INSTALL PERMANENT SEEDING, SOD AND PLANTING IN AREAS WHERE CONSTRUCTION ACTIVITIES	HAVE BEEN COMPLETED NO LATER THAN 14 DAYS AFTER	DR/	WING TITLE:		
7.	THE LAST CONSTRUCTION ACTIVITIES. REMOVE ACCUMULATED SEDIMENT.					
8.	REMOVE TEMPORARY POLLUTION PREVENTION MEASURES AFTER ALL CONSTRUCTION ON SITE H/ ACCORDING TO APPLICABLE FDEP REGULATIONS AND/OR LOCAL GOVERNMENTAL CODES, ETC.	AS BEEN COMPLETED AND DISPOSE OF MATERIALS	SI	ORMWATER	POLLUT	10N
API	ROXIMATE AREA INFORMATION			PREVENTK	ON PLAN	
	AL SITE AREA = ±9.47 ACRES A TO BE DISTURBED = ±8.64 ACRES	BID SET				
		NOT FOR CONSTRUCTION	DRA	WING NUMBER:		
	Alv	ways call 811 two full business days before you dig		\sim		
	8			C-8	D.U	-

16 of **17**

SHEET

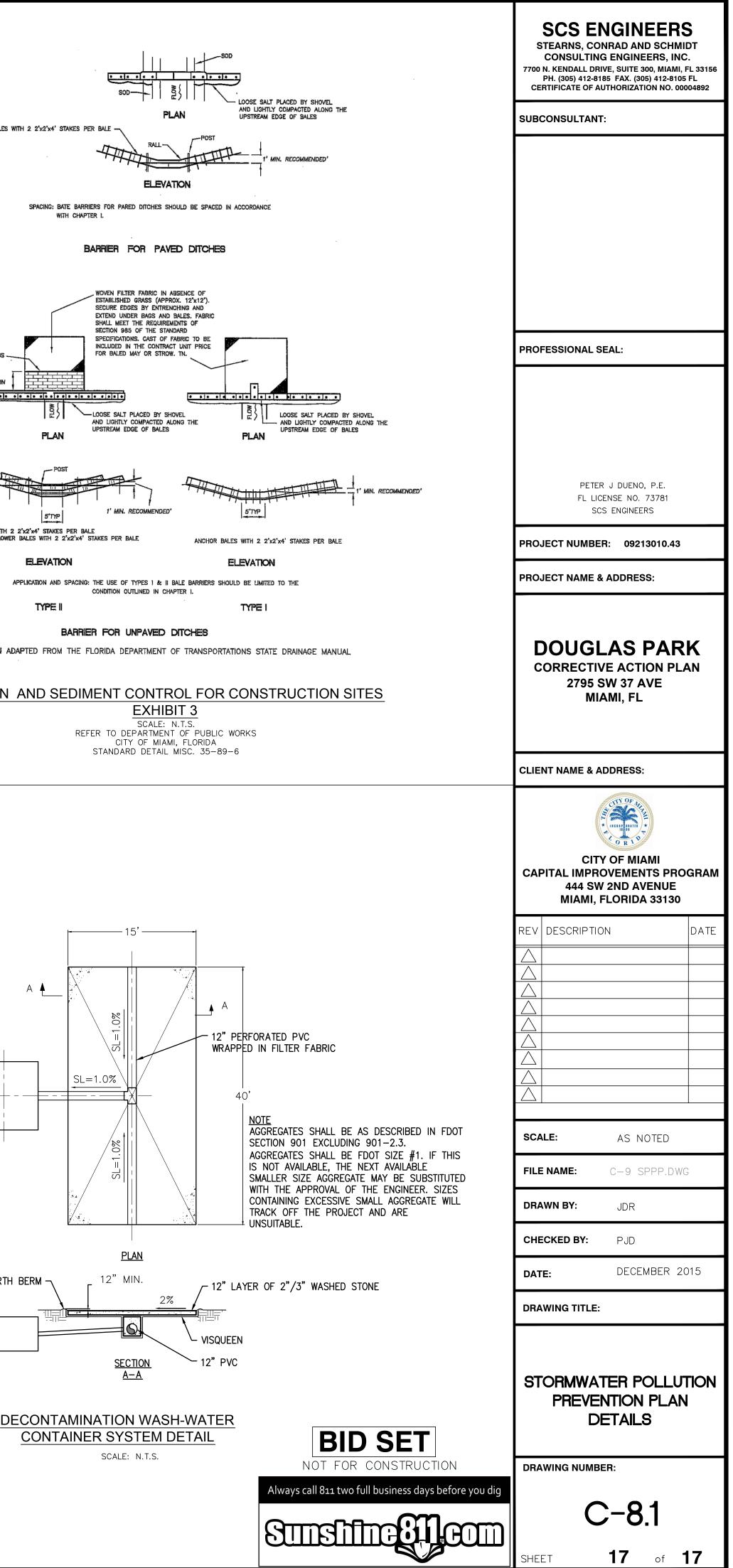


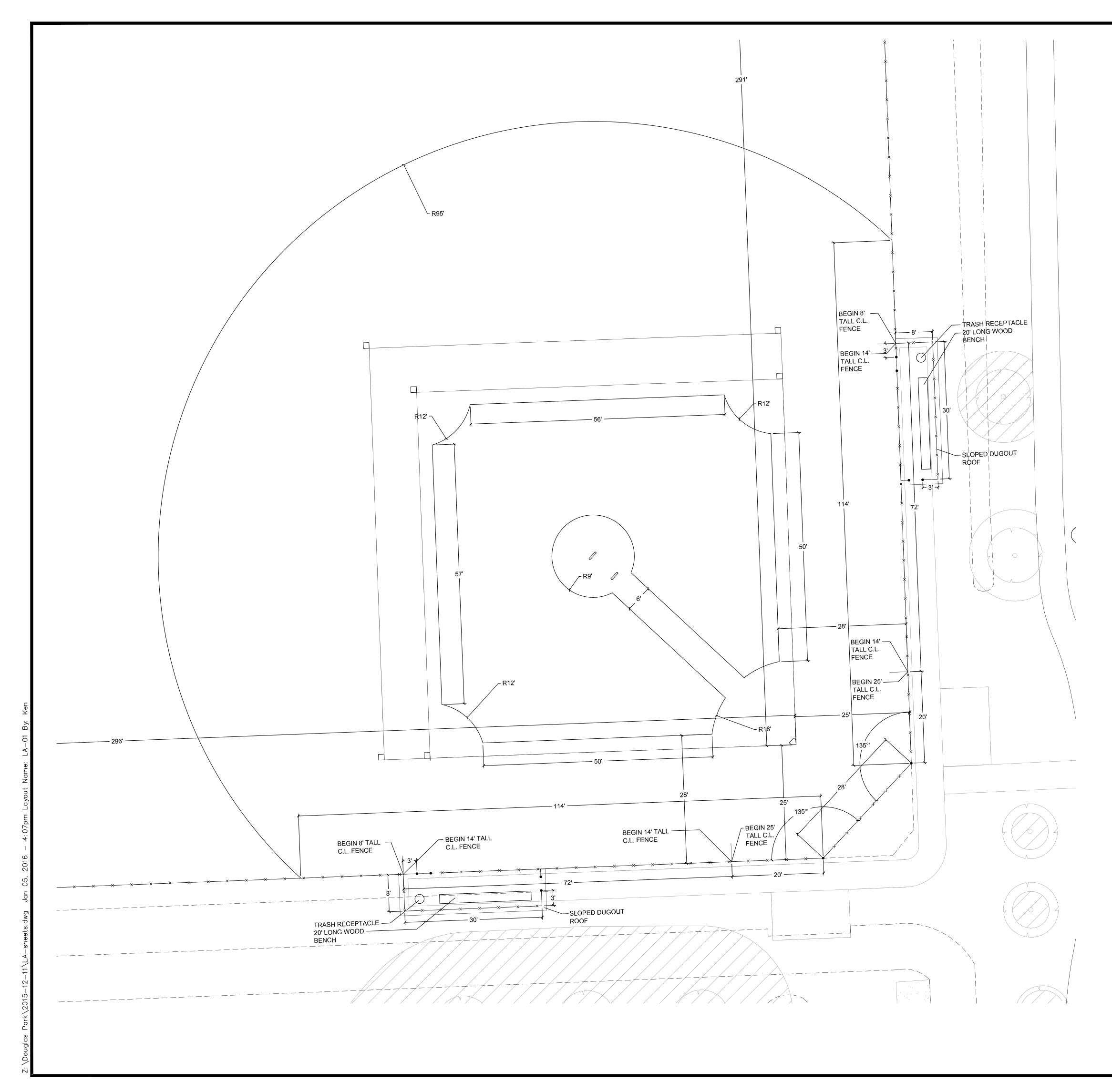
EROSION AND SEDIMENT CONTROL FOR CONSTRUCTION SITES
EXHIBIT 4
SCALE: N.T.S.

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

AS REQUIRED AS REQUIRED AS REQUIRED ANCHOR BALES WITH 2 2'x5'x4' ANCHOR BALES WITH 2 2'x5'x4' FILL SLOPE ELEVATION TO BE USED AT SELECT SITES WHERE THE	ANCHOR BALES W
NATURAL GROUND SLOPES AWAY FROM THE TOE OF SLOPE	
TYPE A OR B FENCE NOTE: BALES TO BE STAKED AT DIRECTION OF THE ENGINEER. LOOSE SOIL PLACED SHOVEL AND LIGHTLY COMPACTED ALONG UPSTREAM FACE OF BALES	
BALES BACKED BY FENCE	
ANCHOR BALES WITH 2 2'x5'x4' SLOPES PER PER BORE DITCH DITCH BOTTOM INLET	SAND BAGS
PROTECTION AROUND INLETS OR SIMILAR STRUCTURES	RALL
BALES TO BUTT - ANCHOR BALES WITH 2 2'x5'x4'	
SLOPES PER PER BORE PLAN LOOSE SOIL PLACED BY SHOVEL AND LIGHTLY COMPACTED ALONG THE UPSTREAM EDGE OF BALES,	ANCHOR LOWER BALES WITH 2 ANCHOR TOP BALES TO LOWER
ELEVATION TO BE USED AT SELECT SITES WHERE THE	
NATURAL GROUND SLOPES AWAY FROM THE TOE OF SLOPE	
INFORMATION ADAPTED FROM THE FLORIDA DEPARTMENT OF TRANSPORTATIONS STATE DRAINAGE MANUAL	INFORMATION AD.
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	
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 SWPP, 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	300 GAL. —
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 oreas 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.	CONSTRUCT EARTH
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.	300 GAL. —
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.	POLY TANK
* NPDES — National Pollution Discharge Elimination System	
	DE
STROM WATER POLLUTION PREVENTION PRACTICES	
SCALE: N.T.S. REFER TO DEPARTMENT OF PUBLIC WORKS	

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





SCS ENGINEERS STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC.

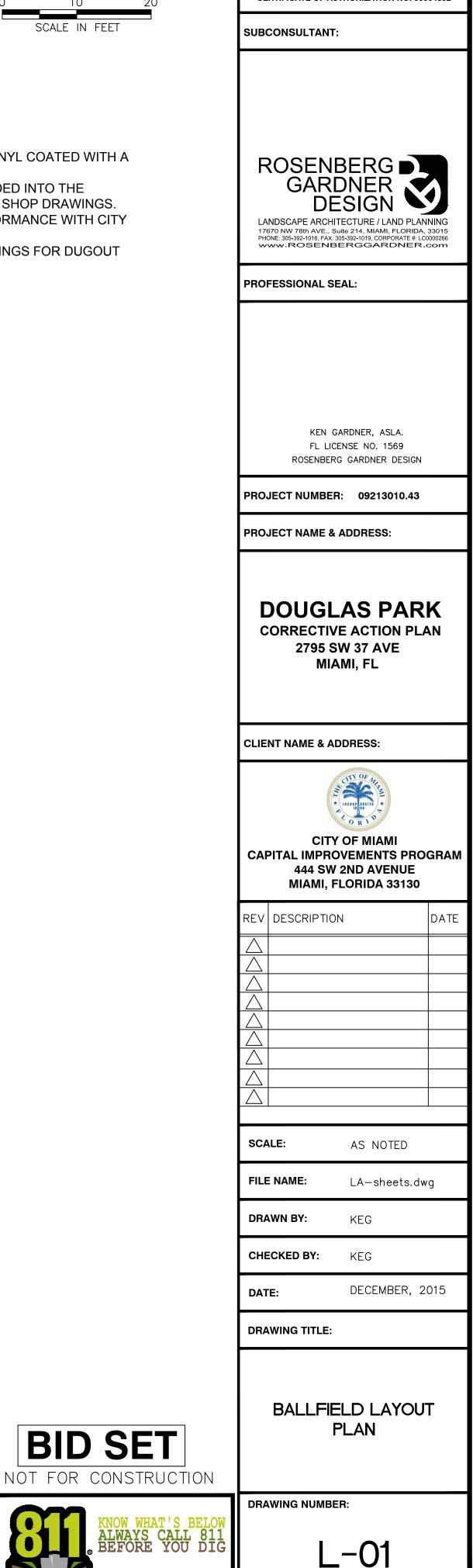
7700 N. KENDALL DRIVE, SUITE 300, MIAMI, FL 33156 PH. (305) 412-8185 FAX. (305) 412-8105 FL CERTIFICATE OF AUTHORIZATION NO. 00004892



• ALL CHAINLINK FENCE SHALL BE BLACK VINYL COATED WITH A TOP AND BOTTOM RAIL

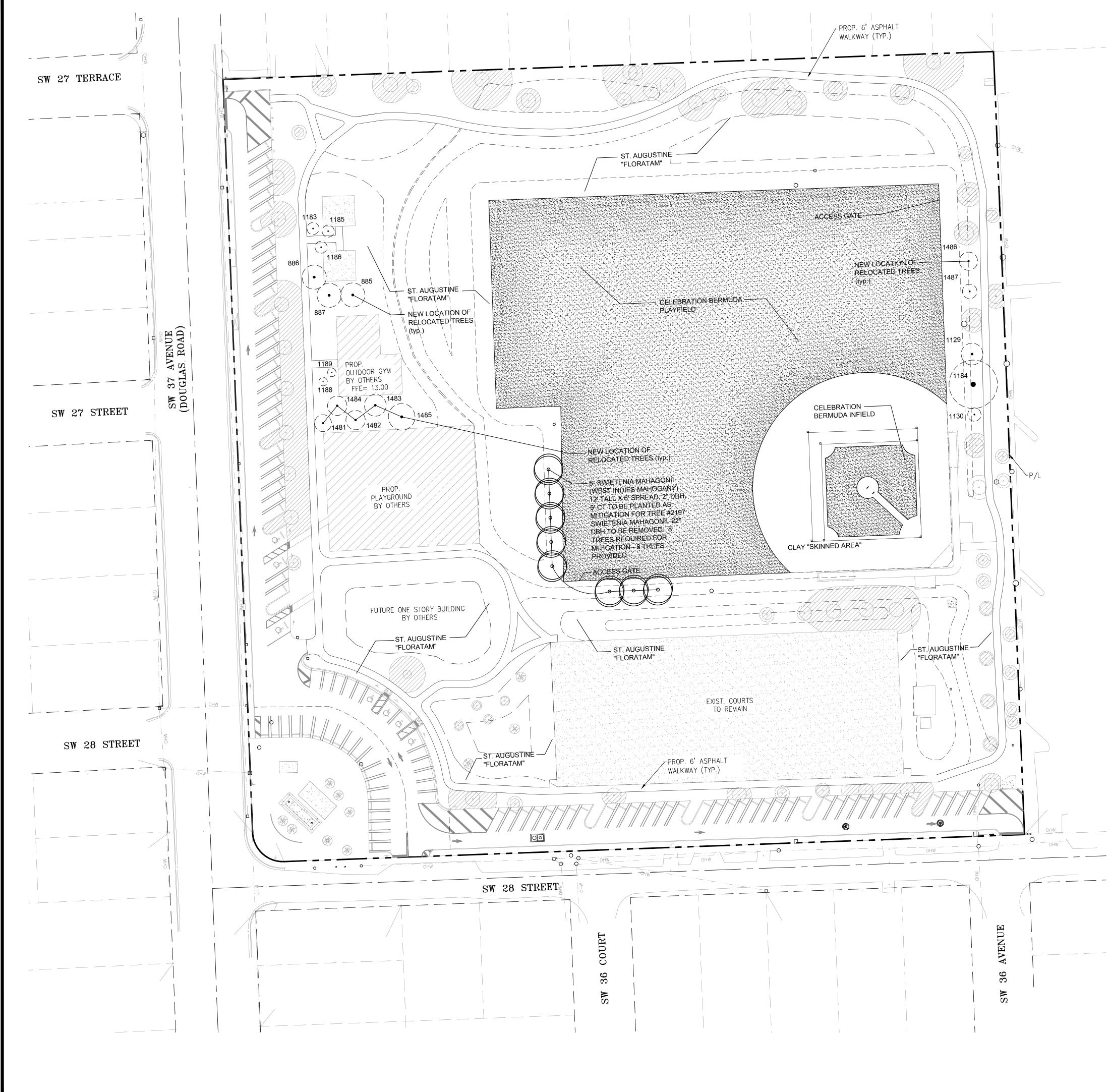
SCALE IN FEET

- 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.

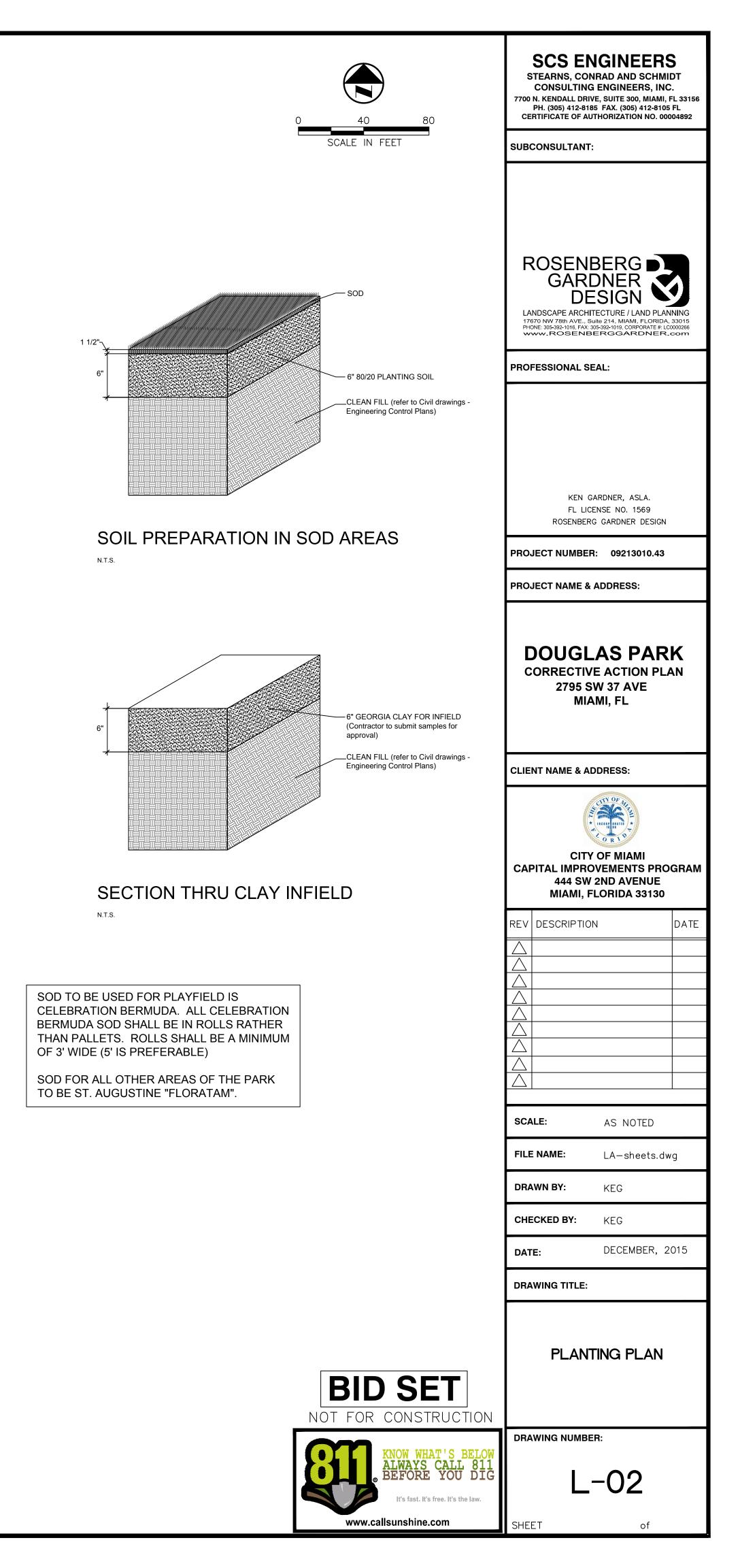


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1.1 SCOPE

A. Contractor shall provide all labor, materials, equipment, supervision, and related work necessary to complete the landscape work in accordance with the intent of the landscape plans, schedules and these specifications. The extent of work is shown on the drawings which are a part of this document.

1.2 CONTRACTOR QUALIFICATIONS A. Landscape installation work to be performed by a Contractor Certified by the Florida Nurserymen, Growers and Landscape Association (FNGLA) as a Certified Landscape Contractor. Any pruning to be supervised by an Arborist, certified by the International Society of Arboriculture (ISA) and licensed in Miami-Dade County.

1.3 INVESTIGATION OF UTILITIES A. Prior to beginning work, the Contractor shall be responsible to locate existing underground utilities. Check with all utility companies and Sunshine

State, call (811). 1.4 SUBSTITUTIONS

A. Only materials specified will be accepted, unless approved in writing by the Landscape Architect in advance.

1.5 PLANT SIZES A. All plant sizes shall equal or exceed the minimum sizes as specified in the plant list. When plant sizes are specified as a range of size, installed materials shall average the mean of the range specified. Plants shall be measured

following pruning, with branches in normal position. All necessary pruning shall be done at the time of planting. 1.6 PLANT QUALITY

A. All plant material shall be equal to or better than Florida No. 1 as classified by "Grades and Standards for Nursery Plants" by the Division of Plant Industry, Florida Department of Agriculture. They shall have a growth habit that is normal for the species; healthy, vigorous, free from insects, disease and injury.

B. The Owner or Landscape Architect reserves the right to refuse any plant material which does not conform to the intent of the written specifications or

C. CIRCLING ROOTS FOUND ON CONTAINER-GROWN MATERIAL WILL NOT BE ACCEPTED UNLESS REMEDIAL ROOT PRUNING, APPROVED BY THE LANDSCAPE ARCHITECT IS DONE BEFORE PLANTING.

1.7 PLANT QUANTITY A. The plant quantities shown on the plant list are to be used only as an aid to bidders. In the case of discrepancy between the plant list and the plan, the

quantity on the plan shall override the plant list. 1.8 UNIT PRICES

A. The successful bidder shall furnish to the Owner and the Landscape Architect, a unit price breakdown for all materials. The Owner may, at his discretion, add to or delete from the materials utilizing the unit price breakdown submitted to and accepted by the Owner.

1.9 SUBMITTALS A. Fertilizer: The Contractor shall submit to the Owner and Landscape Architect documentation that all the fertilizer used for the project is of the analysis specified and placed at the rates specified in section 2.2 FERTILIZER.

B. Planting soil: The Contractor shall submit a sample of the planting soil (approximately 1 cu. Ft.) for approval by the Landscape Architect prior to delivery to the site.

1.10 CLEAN-UP & MAINTENANCE OF TRAFFIC A. Follow procedures in FDOT Index 600 for maintenance of traffic during

construction.

B. At the end of each work day, the Contractor shall remove debris and shall barricade the un-filled holes in a manner appropriate in the path of pedestrians and motorists.

C. Upon completion of the work or any major portion of the work or as directed by the Landscape Architect, all debris and surplus material from his work shall be removed from the job site.

1.11 MAINTENANCE PRIOR TO ACCEPTANCE

A. The Contractor is responsible to maintain the plantings until they are accepted under the provisions of 1.12 "ACCEPTANCE OF INSTALLATION".

1. Plants: Begin maintenance immediately following the final plant installation operation for each plant and continue until all plant installation is complete and accepted. Maintenance shall include watering all plants, weeding, mulching, pest and disease control, tightening and repairing of guys, repair of braces, removal of dead growth, resetting of plants to proper grade or up-right position. restoration of plant saucer. litter pick-up in plant beds and other necessary operations to assure specified minimum grade of Florida No. 1.

2. Turf Areas: Begin maintenance of turf immediately following the placement of sod and continue until sod installation is complete and accepted. Maintenance shall include but not be limited to, watering, leveling, mowing, weed and pest control, fungus and disease control and other necessary operations as determined by the Landscape Architect and good nursery practice.

3. Re-setting or straightening trees and palms: The Contractor shall re-set and/or straighten trees and palms as required at no additional cost to the Owner unless caused by sustained winds of 75 mph or more. Then, the costs of the operations may be charged to the owner. Re-set trees within 48 hours.

1.12 ACCEPTANCE OF INSTALLATION

A. Inspection: Inspection of the work, to determine completion of contract work, exclusive of the possible replacement of plants and turf. will be made by the Landscape Architect at the conclusion of the maintenance period. Written notice requesting such an inspection and submitted by the Contractor at least ten (10) days prior to the anticipated date.

1.13 GUARANTEE

A. Guarantee all plants for a period of one year (CCD). Guarantee shall commence from the date of written acceptance. Plant material which is on the site and scheduled to be relocated is not covered by the guarantee except in the case of Contractor's negligence or work that has been done in an unworkman-like manner. The Contractor is not responsible for loss due to acts of god, (i.e.) sustained winds of 75 mph or more, floods, frost, lightning, vandalism or theft.

1.14 REPLACEMENT

A. Replacement shall be made during the guarantee period as directed by the Landscape Architect within ten (10) days from time of notification. For all replacement plant material, the guarantee period shall extend for an additional forty-five (45) days beyond the original guarantee period. The Contractor shall be responsible to provide water to the replacement plants in sufficient quantity to aid in their establishment. At the end of the guarantee period, inspection will be made by the Landscape Architect, upon written notice requesting such inspection and submitted by the Contractor at least five (5) days before the anticipated date. Replacement plants must meet the requirements of Florida No. 1 at time of inspection. Remove from the site all plants that are dead or in a state of unsatisfactory growth, as determined by the Landscape Architect. Replace these and any plants missing due to the Contractor's negligence as soon as conditions permit.

1. Materials and Operations: All replacement plants shall be of the same kind and size as indicated on the plant list. The Contractor shall supply and plant the plants as specified under planting operations.

2. Cost of Replacements: A sum sufficient to cover the estimated cost of possible replacements, including material and labor will be retained by the Owner and paid to the Contractor after all replacements have been satisfactorily made and approved by the Landscape Architect.

PART 2 - MATERIALS

2.1 PLANTING SOIL A. Planting soil for trees, shrubs and ground covers shall be of the composition

noted on the plans, measured by volume.

B. Soil for Sodded Areas: shall be coarse lawn sand.

2.2 FERTILIZER

A. Fertilizer for trees, palms, shrubs, and groundcovers shall be as follows: LESCO Palm Special 13-3-13 or equal, Sulfur coated with iron and other minor elements and maximum of 2% chlorine, or brand with equal analysis. The fertilizer shall be uniform in composition, dry and free flowing and shall be delivered to the site in the original unopened containers, bearing the manufacturer's guaranteed analysis. Fertilizer for sod and seeded areas shall be 6-8-6, 50% organically derived nitrogen, or equal.

2.3 WATER

A. The Contractor shall provide potable water on site, available from the start of planting. The Contractor is responsible to ascertain the location and accessibility of the water source. The Contractor is responsible to provide the means of distribution (i.e. water truck, hoses, etc.) for distribution of water to the planting areas.

2.4 MULCH

A. Mulch shall be shredded Melaleuca mulch (Florimulch) as manufactured by Forestry Resources, Inc., or equal.

2.5 ROOT BARRIER MATERIAL A. When specified in the plans, root barrier material shall be Biobarrier (19.5 inch width) Reemay or approved equal.

B. Install per details in the plans.

PART 3 - INSTALLATION PROCEDURES

3.1 LAYOUT

A. Verify location of all underground utilities and obstructions prior to

excavation.

3.2 HERBICIDE TREATMENT A. In all areas infected with weed and/or grass growth, a systemic herbicide, such as Roundup, shall be applied per manufacturer's rates. When it has been established where work will be done, the systemic herbicide shall be applied in accordance with manufacturer's labeling to kill all noxious growth. Contractor shall schedule his work to allow more than one application to obtain at least 95% kill of undesirable growth. If necessary, Contractor shall conduct a test to establish suitability of product and applicator to be used on this project, prior to execution of the full application.

3.3 PLANT PIT EXCAVATION AND BACKFILLING A. Trees: See the Planting and Bracing Details and notes.

B. All planting holes shall be hand dug where machine dug holes may adversely affect utilities or improvements.

C. Shrubs and Groundcover: Shrubs and groundcover shall be planted in a soil bed as described in the notes and details. Space shrubs and provide setback from curb and pavements as shown in the plans.

D. Watering of field-grown plants: Thoroughly puddle in water to remove any air pockets in the plant hole.

3.4 WATERING

A. The Contractor is responsible to provide the water for all new plants and transplants and means of distribution (i.e. hand watering or water truck) during the maintenance period and extending into the period after acceptance until the full schedule as listed below is complete. Water for trees and other large field grown plants shall be supplemented by hand or water truck, in addition to the irrigation system, (if one is provided). Contractor can adjust watering schedule during heavy rain season upon approval of the Landscape Architect.

AMOUNT OF WATER PER APPLICATION For trees up to 5 inch caliper - 5 gallons

From 5 to 8 inch caliper - 25 gallons 9 inch and up caliper - 50 gallons

FREQUENCY OF WATER

Daily for the first week 3 times per week for weeks 2 - 5

2 times per week for weeks 6 - 8 1 time per week for weeks 9 - 12

B. Water in plants by thoroughly soaking of the entire root ball immediately after planting. For large trees and shrubs, add water while backfilling hole to eliminate any air pockets in the soil around the root ball.

C. Water shrubs, sod and groundcover a minimum of once daily for a week or until an irrigation system is fully operational. If no irrigation system is to be installed, the Contractor shall be responsible for watering the shrub, sod, and groundcover for the time specified above, after installation of each section of the planting installed. 3.5 FERTILIZING

A. Add fertilizer on top of the surface of shrubs beds and tree and palms root balls two (2) months after installation. Fertilize sod within two (2) days after installing after planting of each segment of the job. Fertilizer shall be applied after soil has been well moistened. Fertilizer shall be washed off of plant leaves

and stems immediately after application. Apply at the following rates: Trees and Large Shrubs: One (1) pound per inch of trunk diameter, spread evenly over the root ball area.

2. Shrubs: One half (1/2) handful per shrub, spread evenly over the root ball

3. Groundcover: Twelve (12) pounds per 100 sq. ft. of bed area.

4. Sod: Twelve (12) pounds per 1,000 sq. ft. Wash fertilizer off blades

immediately after spreading.

3.6 MULCHING

A. Spread mulch two (2) inches thick uniformly over the entire surface of shrubs and groundcover beds, depth measured after settling, unless otherwise specified in the plans. Provide 36" diameter bed of mulch, measured from outer edge of the trunk, for all trees and palms planted in sod areas. Keep mulch away from contact with the trunk. Create a 6" high ring of mulch at the outer edge of tree and palm holes.

3.7 GUYING AND BRACING A. See the details bound herewith or made part of the plans.

3.8 SODDING

A. Provide a blanket of lawn sand as described in the notes in these plans. Prior to planting, remove stones, sticks, etc. from the sub-soil surface. Excavate existing non-conforming soil as required so that the finish grade of sod is flush with adjacent pavement or top of curb as well as adjacent sod in the case of sod patching.

B. Place sod on moistened soil, from minimum 3' wide rolls (preferably 5' wide) with edges tightly butted. Sod shall be watered immediately after installation to uniformly wet the soil to at least two inches below the bottom of sod strips. Immediately after soaking, the sod shall be rolled with a 500 pound hand roller mmediately after placing.

C. Keep edge of sod bed a minimum of 18" away from groundcover beds and 24" away from edge of shrub beds and 36" from trees, measured from the edge of plant or tree trunk

D. Apply fertilizer to the sod as specified in Section 3.5.

E. Excavate and remove excess soil so top of sod is flush w/top of curb or adjacent pavement, or adjacent existing sod

SODDING SPECIFICATIONS

PART I _GENERAL

1.01 SCOPE OF WORK

A. This Section specifies the furnishing and placing of sod and the

required for placing of sod.

maintenance and guarantee.

1.02 QUALITY ASSURANCE A. The Landscape Architect shall have the right, during any phase of the work operations, to reject any and all work and materials which do not meet the requirements of the Plans or Specifications. Rejected work and materials shall be immediately removed from the project area and replaced with acceptable work and material within seven (7) calendar

days or as approved by the Landscape Architect. B. Standards:

industry.

2. Grade Standards:

the Florida Department of Agriculture.

1.03 CUTTING, DELIVERY AND HANDLING

to withstand handling.

B. Delivery: Deliver sod on pallets with root system protected from

1.4. GUARANTEE: The Contractor shall maintain the sodded areas in a

inches in height. PART 2 _ MATERIALS

2.01 SOD

compact top growth and heavy root development. The allowable weed grades are provided for reference only.)

sod specified.

Premium or Standard.

being cut for placement.

2.02 BACKFILL/PLANTING SOIL

existing sod on site.

from the following sources:

Total Nitrogen 12%

Water insoluble 1.00%

Nitrate, sulphate of Potash,

and activated sludge

Potash Magnesium

Total Zinc

Total Iron

Ferrous Sulphate

Total Chlorine 2.00%

Nitrate.

Ammoniacal

Water soluble

Derived from triple

super phosphate

2.03 WATER

2.04 FERTILIZER

thickness shall exclude top growth and thatch.

canopy.

furnishing and placing of the fertilizer, water, staples and stakes

B. The work shall include, but not be limited to, delivery, storage, protection to the public, inspections, excavation, installation, grading, backfilling, fertilizing, sod installation, rolling, sanding, watering, mowing, cleanup,

1. Nomenclature: Botanical and common names for sod, including varieties, have been derived from accepted names of the landscape

a. Sod shall be nursery grown and shall comply with required inspections, grading standards and plant regulations as set forth by

b. Quality grade shall be based on the standards of sod quality grades of Premium, Standard or Commercial as established by the Turforass Producers Association of Florida, Inc.

A. Cutting Sod: Sod shall be cut with a root/soil mat of sufficient thickness

exposure to wind and sun. Deliver sod in guantities not in excess of that required for subsequent placement with in 48 hours of cutting.

healthy, vigorous, undamaged condition for a period of 90 days beginning on the date of acceptance of the sodding. Guarantee shall include the filling, leveling and repairing of eroded areas, re-sodding areas exhibiting lack of healthy growth and mowing the grass each time it reaches three

A. Sod shall be Argentine Bahia or St. Augustine 'Floratam', where indicated in the plans. The quality grade shall be STANDARD GRADE. Based upon the standards of sod quality as established by the TURFGRASS PRODUCERS ASSOCIATION OF FLORIDA, INC. The sod shall be well matted with roots and of firm, tough texture having a

content shall be as follows: (Standards for Premium and Commercial Premium _ no weeds or any other grass allowed. Only the species of

Standard no casually visible broadleaf weeds, no obvious patches of weeds and no more than 2% of any other grass or weed in the total

Commercial -any sod which does not meet the weed restrictions of

Sod sections shall be strong enough to support their own weight and retain their size and shape when suspended vertically from a firm grasp on the upper 10% of the section. Sod shall be moist and relatively free of thatch, up to one half inch allowable (uncompressed). The soil embedded in the sod shall be a clean earth, free of stones and debris

B. Mowing: The sod shall have been mowed at least three times with a lawn mower with final mowing not more than seven days prior to the sod

C.Cutting: Sod shall not be harvested when moisture content (excessively dry or wet) may adversely affect its survival and shall be live, fresh and uninjured at the time of placement. After approval of source, mow and rake as necessary to remove excessive top growth and debris. Cut sod with mechanical sod cutters, retaining native soil mat of sufficient thickness to withstand handling. The sod shall be provided in commercial pad sizes measuring not less than 12" by 24" with a uniform thickness of 1 inch to 3/4 inches at time of cutting. Measurement for

A.Backfill: Comprised of sandy loam taken from the top 8 inches of

A. The Landscape Contractor is responsible for ascertaining the location and accessibility of a potable water source for distribution to the newly sodded areas. If there is no approved source of potable water available at the job site, or the irrigation system is not operating or providing sufficient coverage, then the Landscape Contractor shall be responsible for bringing in a water truck or tank for hand watering.

A.If requested by the Landscape Architect, submit for approval, copies of the manufacturer's specifications or analysis of fertilizer intended for use.

B. Fertilizer shall be granular type having an analysis of 12_6_8, derived

Derived from activated sludge urea form, sulphur coated urea & potassium nitrate 75.00%

Phosphoric Acid 6% Water Soluble Potash 8% Derived from Sulphate of Potash Magnesium, Potassium

0.00%

10.25%

Total Magnesium 2.41% Water Soluble 2.41% Derived from Sulphate of Total Manganese .77% Derived from Manganous Oxide Total Boron .02% Derived from Sodium Borate Total Copper .07%

Derived from Copper Oxide .08% Derived from Zinc Oxide 1 00% Derived from Iron Oxide and

A.Composition and Quality: Granular, uniform in composition, dry and free flowing, suitable for application by equipment intended for the purpose. Deliver in unopened bags fully labeled with the manufacturer's analysis. B. Comply with the State of Florida fertilizer laws.

2.05 Stakes: Softwood, 3/4 inch by 3/4 inch by eight inches, unpainted and

2.06 Staples: Metal, 11 gage, 10 inches long, 1 inch wide.

PART 3 _ EXECUTION 3.01 INSPECTION: Inspect surfaces indicated to receive sod and verify that related preceding work has been completed. Do not proceed with

placement until conditions are satisfactory. 3.02 PREPARATION: Remove stones, sticks, rubbish and other extraneous matter from areas to be sodded. Eliminate voids and rough areas and produce a smooth, evenly graded surface. If weed growth is present in the area to be sodded, remove the top three (3) inches of existing soil material

3.03 INSTALLATION

and weed growth

- A. Planting soil: Spread planting soil over the area to be sodded to a uniform depth of two (2) inches.
- B. Fertilizer: Spread fertilizer over the planting soil at the rate of 12 pounds per 1000 square feet of lawn area or as recommended by the manufacturer. Use a Mechanical spreader capable of uniformly distributing the fertilizer at the specified rate. Disc the spread fertilizer into the planting soil to a depth of two inches.
- C.Placement of sod: Place sod on a moist bed of planting soil. Sod shall be carefully placed by hand, edge to edge in rows at right angles to slopes, commencing at the base of sloped areas to be sodded and working upward. The sod shall be immediately pressed firmly into contact with a 500 pound hand roller or other suitable equipment, approved by the Landscape Architect, that will produce a 90 pound per square inch compression grading. The rolling operation shall provide a true and even surface and ensure knitting without displacement of sod or deformation of the surfaces of the sodded area. Hand tamp those areas inaccessible to the roller. The edges of the sodded area shall be staggered in a corresponding manner providing the offset along the edge does not exceed 6 inches. All vertical edging adjacent to sodded areas shall be tamped so as to produce a feathered edge.
- D.Sanding: If, after installation, the sod bed is in need of an application of sandy top dressing, in the opinion of the Landscape Architect, to correct irregularities, gaps or shrinking joints, the Contractor shall perform this task at no additional cost.

E. Watering:

- 1. Water the sod initially to develop uniform coverage and deep water penetration of at least six inches. Avoid puddling and erosion of soil.
- 2. Provide continuous watering of sod in order to achieve optimum growth conditions for establishment. Water shall be applied as necessary. The amount of water and frequency of watering shall be based on the specific needs of the sod, the time of year, amount of rainfall and other environmental conditions present at the time. This watering shall begin after placement of the sod and continue until final acceptance or for a minimum of sixty (60) consecutive days, whichever is greater in time.
- 3. If there is no source for water available at the project, such as a hose bib(s) or fire hydrant(s) if approved for use, then the Contractor shall be responsible for supplying water for hand watering by means of a truck or tank.
- F. On slopes having a ratio of 1 in 3 or greater, peg the installed sod into place with not less than two stakes per square yard.

3.04 CLEANUP

A.Remove fertilizer containers, sod pallets and sodding debris from the site and dispose of properly. Sweep sod waste, soil and fertilizer from paved areas, curbs and walks.

- 3.05 MAINTENANCE PRIOR TO FINAL ACCEPTANCE
- A.Maintenance Prior to Final Acceptance
- 1. Maintenance shall begin immediately after sod is installed and continue until final acceptance except for the watering indicated in the paragraph below. This watering shall begin as indicated and shall continue until completed, even if the indicated period goes beyond the time of final acceptance.
- 2. Sod maintenance shall include watering, repair of erosion, litter removal, and all other care needed for proper growth of the sod. Mowing and edging shall be performed at least once every fourteen (14) days.

3. Insecticides:

- a. Contractor shall apply all insecticides as needed, for complete control of pests and diseases. The materials and methods shall be in accordance with highest standard horticultural practices and as recommended by the County Agent, and approved by the Landscape Architect, prior to implementation
- b. When a chemical is being applied, the person using it shall have in their possession all labeling associated with the chemical. Also, the chemical shall be applied as indicated on the said labeling.
- c. The spraying of insecticides and other such chemicals are to be confined to the infected area. Spraving techniques, which may introduce the material being sprayed beyond the immediate area of the individual plant, are strictly prohibited.
- d. The implementation of control measures for pests and disease infestations shall be in strict compliance with all federal and local regulations. Upon request, the Contractor shall furnish documentation of such compliance
- e. All insecticides shall be applied by a licensed/certified operator only. The operator shall have the license/certification in their possession when insecticides are being applied.
- 4. After sod has been laid, tamped and top dressed, areas which fail to show uniform growth and health, shall be re-sodded, as often as necessary, until all sodded areas are covered with a satisfactory lawn. Damage resulting from erosion, gullies, washouts, or other causes shall be repaired by filling with topsoil, tamping, re-fertilizing, and re-sodding by the Contractor at his or her expense.
- 5. Protection: Sodded areas shall be protected against trespassing and damage. Sod that has been damaged or injured shall be treated or replaced as directed, in compliance with the Specifications, at no additional cost to the DCAD.
- 6. Keep sidewalks, curbs and gutters, drainage structures, driveways, parking areas, streets, terraces, decks and pavers free of grass cuttinas
- 7. Material rejected during the course of construction shall be removed with ten (10) working days and replaced before an inspection for completion will be scheduled.
- B. Survival and Conditions: The Contractor shall be responsible for the proper maintenance and the survival and condition of the sod from the time a landscape item is installed until final acceptance.
- C.Replacement: Replacement of sod shall be the responsibility of the Contractor including the possible replacement of sod resulting from removal by theft or vandalism or acts of negligence on the part of others. Sod shall be alive and in good growing condition at the time of final acceptance.

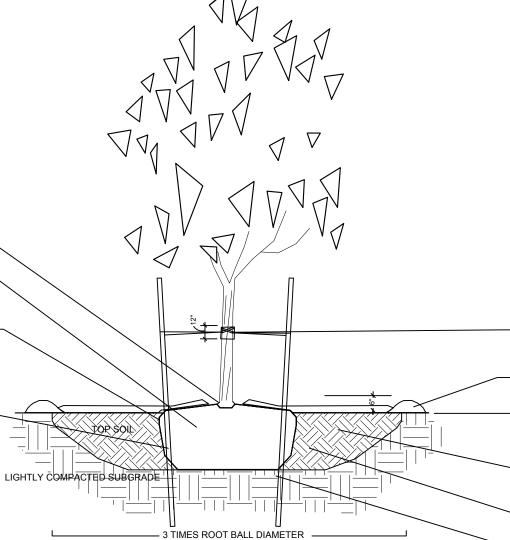
TRUNK FLARE OR TOP ROOT IS 2" ABOVE SURROUNDING GRADE INSTALL 2" OF MULCH OVER 3" DIAMETER CIRCLE AROUND THE TRUNK. DO NOT PLACE MULCH WITHIN 3" OF THE REMOVE ANY PORTION OF WIRE BASKETS ABOVE THE TOP HALF OF

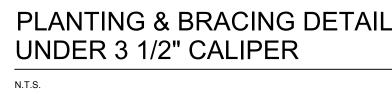
TOP HALF OF THE ROOTBALL. COMPLETE REMOVE ALL SYNTHETIC ROOTBALL COVERING MATERIALS (2)2" DIA. 8' LONG WOOD DOWELS 20°APART DRIVEN THROUGH BOTTOM OF PLANTING PIT

BURLAP COVERINGS BELOW THE

THE ROOTBALL. REMOVE

SET ROOTBALL SO —





	7700	SCS ENGINEERS TEARNS, CONRAD AND SCHMIE CONSULTING ENGINEERS, INC N. KENDALL DRIVE, SUITE 300, MIAMI, F PH. (305) 412-8185 FAX. (305) 412-8105 ERTIFICATE OF AUTHORIZATION NO. 000	DT [:] L 33156 FL
	SUB	CONSULTANT:	
	LA 176 PH0	ROSENBERG GARDNER DESIGN NDSCAPE ARCHITECTURE / LAND PLAN 670 NW 78th AVE., Suite 214, MIAMI, FLORIDA, ONE: 305-392-1016, FAX: 305-392-1019, CORPORATE #: LCC WW.ROSENBERGGARDNER.	33015 0000266
	PRO	FESSIONAL SEAL:	
		KEN GARDNER, ASLA. FL LICENSE NO. 1569 ROSENBERG GARDNER DESIGN	
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SHALL HAVE A SIMILAR STAKING PATTERN A SINGLE TRUNKED TREES. STAKES NEED NOT ALL BE ATTACHED TO EVERY STEM ALL SUPPORT MATERIALS ARE TO BE REMOVED FROM THE TREES ONCE THE TREES HAVE BECOME ESTABLISHED(NOT TO EXCEED 12 MONTHS FROM THE COMPLETION OF THE PROJECT). ***TREE STAKING SHALL NOT** PROTRUDE INTO SIDEWALK AREA OR CONFLICT WITH ADA ACCESS.

NOTE - IRREGULAR OR MULTI-STEMED TREES

5/8" DIAMETER NYLON STRAPS WRAPPED AROUND TRUNK & PULLED TAUT, TIED TO WOOD DOWELS.

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

HOLES TO ACCOMMODATE PLANTS SHALL BE A MINIMUM OF THREE TIMES THE SIZED OF

THE PLANT BALL.

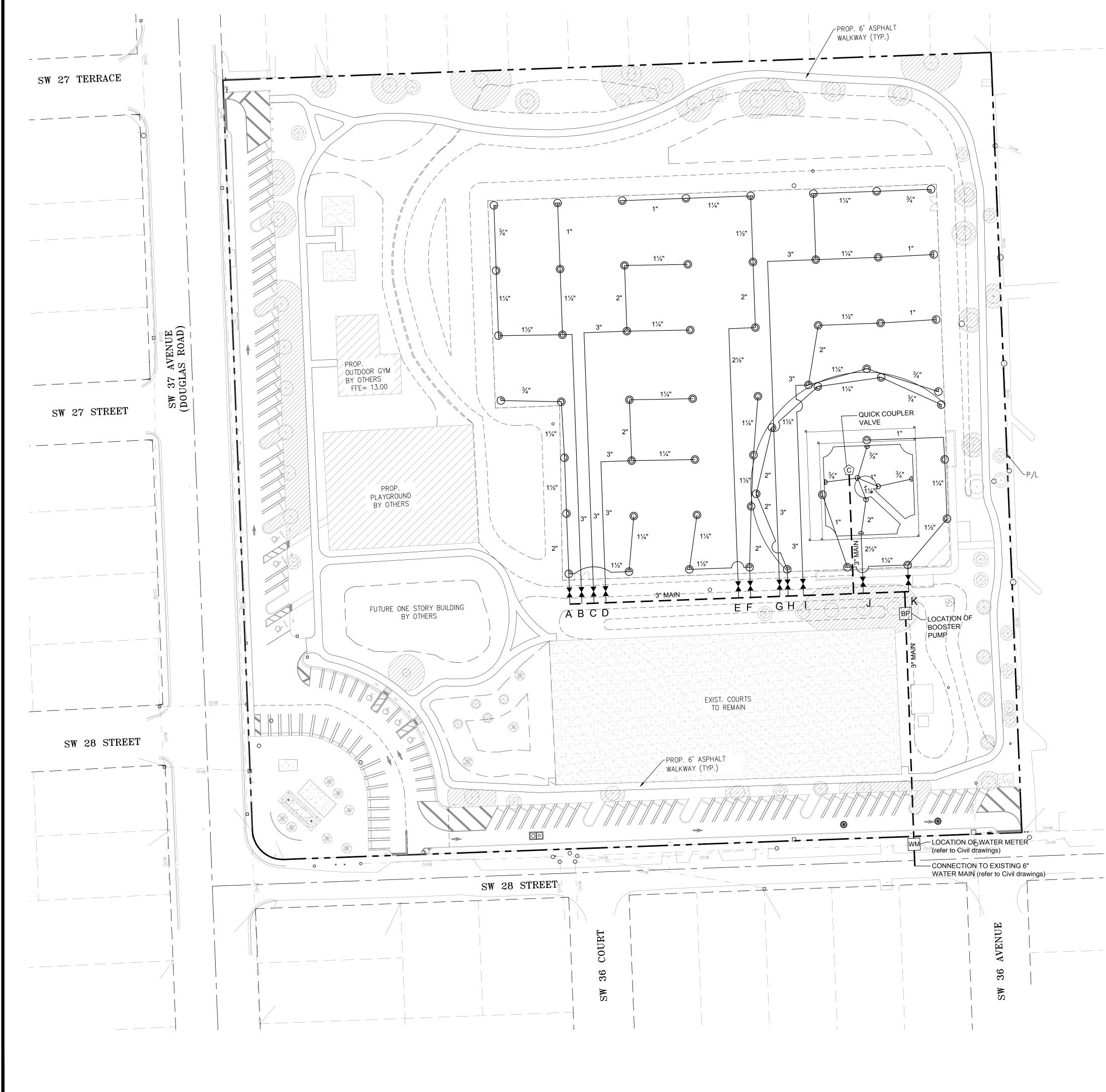
ALL BACKFILL FOR TREES SHALL BE AS EXISTING SOIL WITH ALL ROCKS 2" OR LARGER REMOVED FERTILIZER SHALL BE INSTALLED AS PER THE WRITTEN SPECIFICATIONS

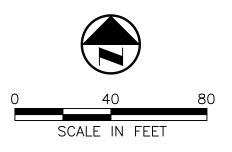


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IRRIGATION MATERIALS LIST KEY ITEM

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	PVC laterals & mains shall be schedule 40 PVC (sized as shown on plans)
	PVC sleeves shall be Schedule 40 PVC (sized 2 sizes larger than the pipe running through it)
	Flexible PVC or Polypipe (for swing joints)
	Multi-station Controller (controller to be installed on wall next to Water Source)
	MINI-Clik II Rain Sensor (locate in area of free rainfall)
\mathbf{M}	RAINBIRD 200-PESP 2" Electromechanical Solenoid Control Valve
	Irrigation Control Wire
۵	RAINBIRD 5000 Series Rotor Heads (Set at 35 PSI) 2.0 nozzles for 90° (1.81 GPM)
	4.0 nozzles for 180° (3.50 GPM)
G	6.0 nozzles for 270° (5.23 GPM)
O	8.0 nozzles for 360° (7.06 GPM)
	RAINBIRD 6504 (Falcon) Series Rotor Heads (Set at 40 PSI)
þ	6 nozzles for 90° (4.90 GPM) 10 nozzles for 180° (8.10 GPM)
	14 nozzles for 270° (11.30 GPM)
le l	$19 \text{ pozzlob for } 260^{\circ} (12.7 \text{ CDM})$

18 nozzles for 360° (13.7 GPM)

QTY. as required as required as required

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as required



SCS ENGINEERS

STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC.



BID SET

GENERAL NOTES:

1. SCOPE OF WORK: The Contractor shall furnish all labor, machinery, tools, supplies, and equipment as necessary to construct and provide an operating system, as indicated in the Plans. The work shall include, but not be limited to, furnishing materials (pipe, valves, sprinkler heads, fittings, controllers, electrical, wire and fittings, primer, glue, etc.), layout, protection to the public, excavation, assembly, installation, backfilling, compaction, repair of road or pavement surfaces, controller and low voltage feed to the valves, clean-up, maintenance and guarantee, and as-built plans.

2. Contractor shall coordinate with General Contractor or other pertinent Contractors on the job to insure that sleeves are provided and installed under hard surfaces to allow access to all areas to be irrigated. All sleeves shall be constructed of Schedule 40 PVC. Bury all sleeves a minimum of 24" below the surface. Sleeve to be 2 times the size if the pipe running through it. Sleeve shall extend 24" past the edge of pavement into the area to be irrigated.

3. GUARANTEE: The irrigation system shall be guaranteed for a minimum of one calendar year from the time of final acceptance.

4. REPAIR UTILITIES: The Contractor shall be responsible to verify the location of all utilities by hand excavation or other appropriate measures before performing any work that may result in damage to utilities structures, or property. The Contractor shall take immediate steps to repair, replace, or restore all services to any utilities which are disrupted due to his operations. All costs involved in disruption of service and repairs due to negligence on part of the Contractor shall be his responsibility.

5. AS-BUILT DRAWINGS: Prints of the plans will be supplied to the Contractor for recording "as-built" information. Immediately upon installation of any work which deviates from what is shown on the Plans, the Contractor shall clearly indicate such changes in red pencil on the prints. Such changes shall include, but not be limited to, changes in (1) materials; (2) sizes of material; (3) location; and (4) quantities.

6. The entire installation shall fully comply with all applicable local and state codes and ordinances. The Contractor shall take out all required plumbing and electrical applications and permits, arrange for all necessary inspections and shall pay all fees and expenses in connection with same as part of work under the contract.

7. UNIT PRICES: The successful bidder shall furnish, to the Owner, a unit price breakdown for all materials. The Owner may at his own discretion, add to or delete from the materials, using the unit price breakdown submitted to and accepted by the Owner.

8. MAINTENANCE PERIOD: The irrigation system shall be maintained for a period of 90 days after final acceptance of installation. Maintenance shall include checking of the system 2 times per week. Contractor shall be responsible to replace/repair any broken or malfunctioning parts of the system including those damaged by accidents or vandalism. Repairs shall be made immediately at the time of inspection or when notified by the Landscape Architect.

9. The irrigation system shall provide 100% coverage with a minimum of 90% overlap of water spray.

10. The system is design to provide sprinkler precipitation rates that are nearly equal in each zone. Mixing of sprinklers with widely varying precipitation rates in a zone will not be accepted.

11. All pipe shall be made of Schedule 40 PVC, except flexible PVC (or Toro funny pipe) for flexible swing joint and Schedule 80 galvanized steel pipe for all above ground fittings. Pipe locations shall be adjusted in the field. When laying out mains and laterals, locate pipe near edges of pavement or against buildings wherever possible, to allow space for plant rootballs. Coordinate pipe locations with plantings. Bury all mains 18" below surface and laterals 12". Depth shall be measured to top of pipe.

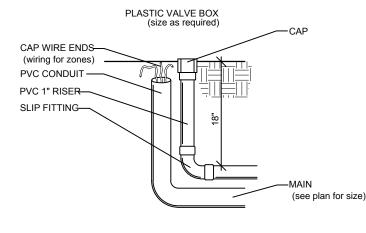
12. Keep pop-up sprinkler heads a minimum of 8" from edges of pavement and curbing, and heads on risers a minimum of 18", or as indicated in the pans.

13. All heads located in shrub or groundcover beds shall be installed on a riser as per details in the plans. All other heads shall be installed on a swing joint as per details in the plans.

14. Place irrigation control wire in conduit in the same trench as mains and under the main. ASI wire shall be #14 or larger solid copper U.L. approved underground direct burial cable and shall be continuous with no splices from controller to solenoid valve.

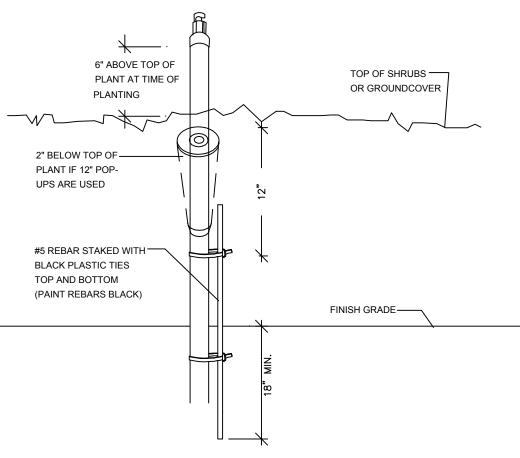
15. Valve locations are schematic and shall be adjusted in the field. Each valve shall be in a separate valve box (10" x 16") min.). When grouping valve boxes in grass or groundcover areas, set boxes a minimum of 12" apart to allow grass or groundcover to grow between them. When possible, hide valve boxes in shrub beds, a minimum of 12" from edge of beds. Set all valve boxes, concrete or plastic, in ground with cover flush with finish grade, and level, with a minimum of 6" of pea gravel at the bottom of the box, with at least 2" of clearance from the bottom of the valve to the top of the gravel.

16. TESTING: Notify the Landscape Architect in writing when testing will be conducted. Conduct test in the presence of the Landscape Architect. After all PVC assembly is completed the lines shall be flushed to insure that no rocks, sand, or other foreign debris remains in the lines. The mains shall be filled with water and all outlets shall be capped and plugged. The main shall be pressurized to 100 PSI for a minimum of one hour. No section of the main will be approved if the pressure drops more than 5 PSI at the end of the one hour period. Leaks shall be repaired immediately and the system shall be re-tested until found satisfactory by the Landscape Architect.



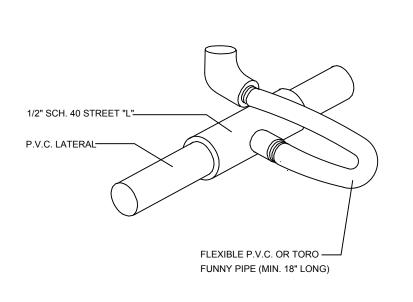
DETAIL OF STUB-OUT FOR FUTURE USE



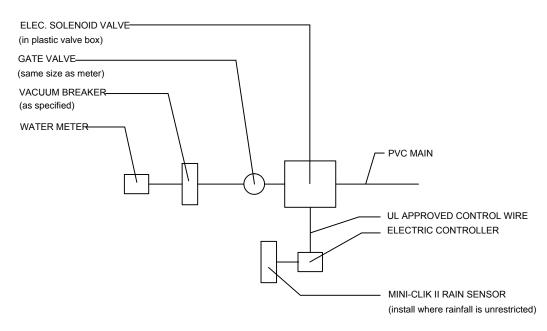




N.T.S.

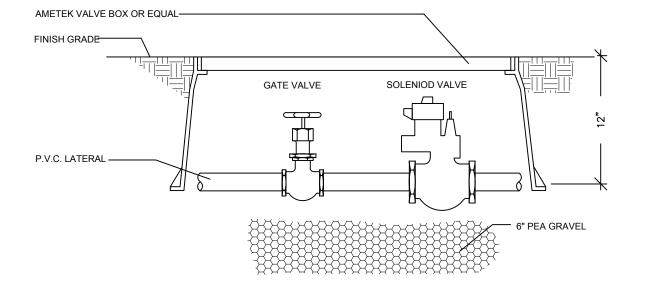


FLEXIBLE SWING JOINT DETAIL N.T.S.



CONNECTION TO METER DETAIL

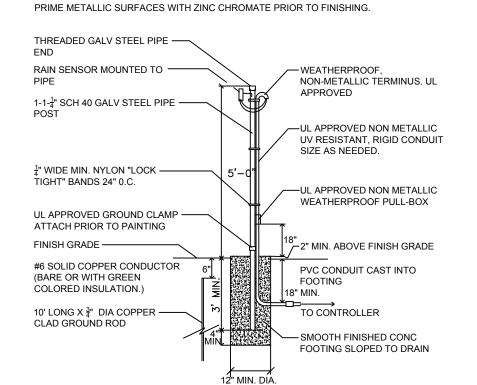
N.T.S.



N.T.S.

SPRINKLER ON RISER DETAIL FOR SHRUB AREAS

TYPICAL SOLENOID VALVE ASSEMBLY



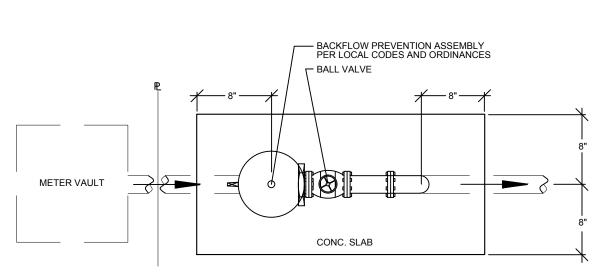
RAIN SENSOR DETAIL

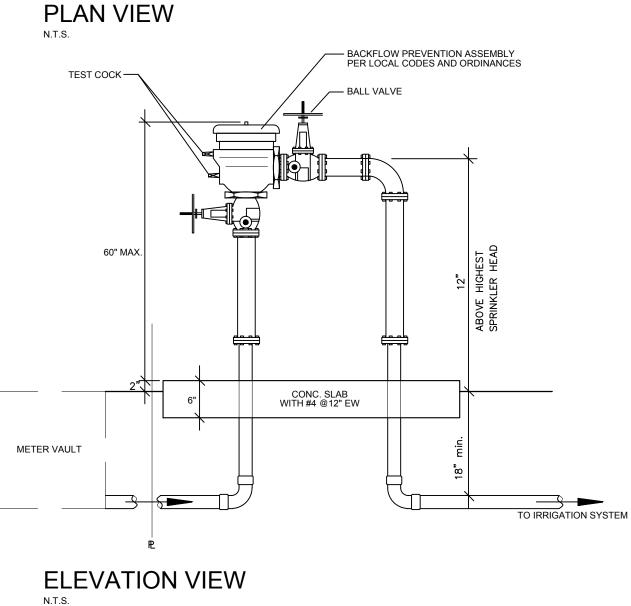
N.T.S.

ALL WIRE CONNECTIONS SHALL BE APPROVED WATERTIGHT CONNECTIONS.

ENAMEL PAINT

FINISH ENTIRE ASSEMBLY, EXCEPT FOR EQUIPMENT, WITH FLAT BLACK ACRYLIC

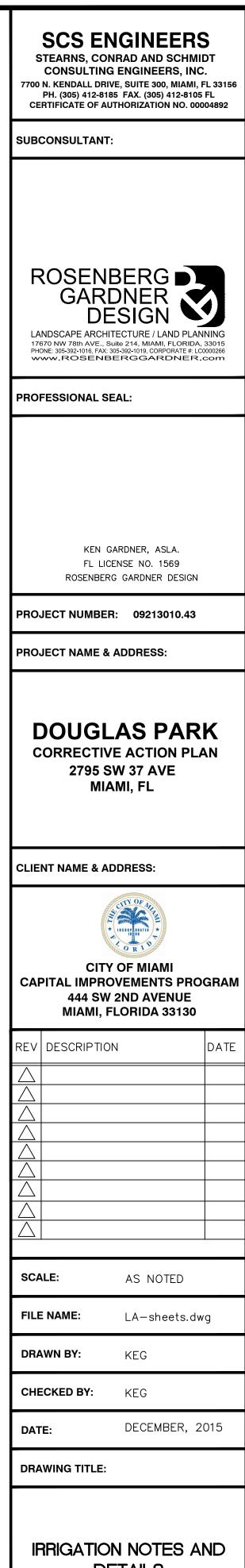




MDC WASA - PRESSURE VACUUM BREAKER DETAIL IRRIGATION SYSTEM ONLY (WS 4.19) N.T.S.

NOTES: -MATERIALS: PIPES AND FITTINGS SHALL BE APPROVED BY ASAE STANDARDS APPENDIX F . -THE ASSEMBLY SHALL BE INSTALLED WITH MINIMIUM 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 WASD CONSTRUCTION SPECIFICATIONS FOR DONATION WATER MAINS. PVC PIPING IS NOT ACCEPTED BY WASD. -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)





ALE.K A.F.F. A.F.G. AWG BD. C. CAB. C. CAB. C. CAB. C. CAB. C. CAB. C. CAB. C. CAB. C. CAB. C. CAB. C. CAB. C. C. CAB. C. CAB. C. CAB. C. CAB. C. CAB. C. CAB. C. CAB. C. CAB. C. CAB. C. CAB. C. CAB. C. CAB. C. CAB. C. CAB. C. CAB. C. CAB. C. CAB. C. CAB. C. CAB. C. CAB. C. C. CAB. C. C. CAB. C. C. C. CO-THW E.A. E. W.C. E ER EMT EPO F.A. G.F.I. GND. HID HPS I.G. LT. LTG. MCB MLO MT. N.F.C. N.I.C. N.I.C. N.F.A. C. C. CAB. C. C. C. C. T. C. C. T. C. C. C. C. C. C. C. C. C. C. C. C. C.	ADVIDE ADVICES. DEVICES. ABOVE FINISHED FLOOR ABOVE FINISHED GRADE AMERICAN WIRE GAUGE BOARD CONDUIT CABINET CIRCUIT BREAKER CIRCUIT BREAKER CIRCUIT TELEVISION COPPER WIRE WITH THERMOPLASTIC, HEAT RESISTANT, MOISTURE RESISTANT CHARACTERISTICS EMPTY CONDUIT ELECTRIC WATER COOLER EXISTING TO BE RELOCATED OR REMOVED ELECTRICAL METALLIC TUBING EMERGENCY POWER OFF FIRE ALARM GROUND FAULT INTERRUPTER GROUND FAULT INTERRUPTER GROUND HIGH INTENSIVE DISCHARGE HIGH PRESSURE SODIUM ISOLATED GROUND LIGHT LIGHT NATIONAL ELECTRICAL CODE NOT IN CONTRACT NATIONAL FIRE PROTECTION ASSOCIATION NATIONAL FIRE PROTECTION ASSO		EQUIPMEN HIGH VOLTAG LOW VOLTAG HIGH VOLTAG LOW VOLTAG HD FUSIBLE E 3=NO. 0F POL *=FUSE SIZE / MOTOR STAF LIGHT. NEM/ OUTDOORS COMBINATION ENCLOSURE / CONTACTOR. FAN MOTOR "2" W TRANSFORME DEVICES DUPLEX RECE JUPLEX RECE (44" A.F.F.) U.C
A.F.G. AWG BD. C. CAB. C.B. CKT. CCTV CO-THW E.A. E.W.C. E ER EMT EPO F.A. G.F.I. GND. HID HPS I.G. LT. LTG. MCB MLO MT. MTG. HT. N.E.C. N.I.C. NL NFPA NEMA LFMC P.A. PNL. PTZ RECEPT. RMC	ABOVE FINISHED GRADE AMERICAN WIRE GAUGE BOARD CONDUIT CABINET CIRCUIT CABINET CIRCUIT TELEVISION COPPER WIRE WITH THERMOPLASTIC, HEAT RESISTANT, MOISTURE RESISTANT CHARACTERISTICS EMPTY CONDUIT ELECTRIC WATER COOLER EXISTING TO BE RELOCATED OR REMOVED ELECTRICAL METALLIC TUBING EMERGENCY POWER OFF FIRE ALARM GROUND FAULT INTERRUPTER GROUND FAULT INTERRUPTER GROUND HIGH INTENSIVE DISCHARGE HIGH PRESSURE SODIUM ISOLATED GROUND LIGHT LIGHTING MAIN CIRCUIT BREAKER MAIN LUGS ONLY MOUNT MOUNTING HEIGHT NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION. LIQUID TIGHT FLEXIBLE METAL CONDUIT PUBLIC ADDRESS PANEL PANTILT-ZOOM CAMERA RECEPTACLE RIGID METAL CONDUIT	□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□	LOW VOLTAG HIGH VOLTAG LOW VOLTAG HD FUSIBLE D 3=NO. OF POL *=FUSE SIZE A MOTOR STAF LIGHT. NEMA OUTDOORS COMBINATION ENCLOSURE A CONTACTOR. FAN MOTOR "2" W TRANSFORME DEVICES DUPLEX RECE SINGLE RECE DUPLEX RECE (44" A.F.F.) U.O
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CKT. CCTV CO-THW E.A. E.W.C. E ER EMT EPO F.A. G.F.I. GND. HID HPS I.G. LT. LTG. MCB MLO MT. MTG. HT. N.E.C. N.I.C. NL NFPA NEMA LFMC P.A. PNL. PTZ RECEPT. RMC	CIRCUIT CLOSED CIRCUIT TELEVISION COPPER WIRE WITH THERMOPLASTIC, HEAT RESISTANT, MOISTURE RESISTANT CHARACTERISTICS EMPTY CONDUIT ELECTRIC WATER COOLER EXISTING TO BE RELOCATED OR REMOVED ELECTRICAL METALLIC TUBING EMERGENCY POWER OFF FIRE ALARM GROUND FAULT INTERRUPTER GROUND FAULT INTERRUPTER GROUND HIGH INTENSIVE DISCHARGE HIGH PRESSURE SODIUM ISOLATED GROUND LIGHT LIGHTT LIGHTING MAIN CIRCUIT BREAKER MAIN LUGS ONLY MOUNTING HEIGHT NATIONAL ELECTRICAL CODE NOT IN CONTRACT NIGHT LIGHT NATIONAL FIRE PROTECTION ASSOCIATION NATIONAL FIRE PROTECTION ASSOCIATION NATIONAL FLECTRICAL CONDUIT PUBLIC ADDRESS PANEL PAN-TILT-ZOOM CAMERA RECEPTACLE RIGID METAL CONDUIT	– ₃♡ ▼ ▼ ▼ ▼ ■ ▼ ■ ■ ■ ■	HD FUSIBLE D 3=NO. 0F POL *=FUSE SIZE / MOTOR STAF LIGHT. NEM/ OUTDOORS COMBINATION ENCLOSURE / CONTACTOR. FAN MOTOR "2" W TRANSFORME DEVICES DUPLEX RECE SINGLE RECE UPLEX RECE (44" A.F.F.) U.C
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ER EMT EPO F.A. G.F.I. GND. HID HPS I.G. LT. LTG. MCB MLO MT. MTG. HT. N.E.C. N.I.C. NL NFPA NEMA LFMC P.A. PNL. PTZ RECEPT. RMC	EXISTING TO BE RELOCATED OR REMOVED ELECTRICAL METALLIC TUBING EMERGENCY POWER OFF FIRE ALARM GROUND FAULT INTERRUPTER GROUND HIGH INTENSIVE DISCHARGE HIGH PRESSURE SODIUM ISOLATED GROUND LIGHT LIGHTING MAIN CIRCUIT BREAKER MAIN LUGS ONLY MOUNT MOUNTING HEIGHT NATIONAL ELECTRICAL CODE NOT IN CONTRACT NIGHT LIGHT NATIONAL FIRE PROTECTION ASSOCIATION NATIONAL FIRE PROTECTION ASSOCIATION NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION. LIQUID TIGHT FLEXIBLE METAL CONDUIT PUBLIC ADDRESS PANEL PAN-TILT-ZOOM CAMERA RECEPTACLE RIGID METAL CONDUIT	ŢX □ ¢ □ POWER	LIGHT. NEMA OUTDOORS COMBINATION ENCLOSURE A CONTACTOR. FAN MOTOR "2" W TRANSFORME DEVICES DUPLEX RECE SINGLE RECE DUPLEX RECE (44" A.F.F.) U.C
EPO F.A. G.F.I. GND. HID HPS I.G. LT. LTG. MCB MLO MT. MTG. HT. N.E.C. N.I.C. NL NFPA NEMA LFMC P.A. PNL. PTZ RECEPT. RMC	EMERGENCY POWER OFF FIRE ALARM GROUND FAULT INTERRUPTER GROUND HIGH INTENSIVE DISCHARGE HIGH PRESSURE SODIUM ISOLATED GROUND LIGHT LIGHTING MAIN CIRCUIT BREAKER MAIN LUGS ONLY MOUNT MOUNT MOUNTING HEIGHT NATIONAL ELECTRICAL CODE NOT IN CONTRACT NIGHT LIGHT NATIONAL FIRE PROTECTION ASSOCIATION NATIONAL FLECTRICAL MANUFACTURERS ASSOCIATION. LIQUID TIGHT FLEXIBLE METAL CONDUIT PUBLIC ADDRESS PANEL PAN-TILT-ZOOM CAMERA RECEPTACLE RIGID METAL CONDUIT	© \$∲ ₽ ₩ ₩ ₩ ₩	COMBINATION ENCLOSURE CONTACTOR FAN MOTOR "2" W TRANSFORM DEVICES DUPLEX REC SINGLE RECE DUPLEX RECE (44" A.F.F.) U.G
G.F.I. GND. HID HPS I.G. LT. LTG. MCB MLO MT. MTG. HT. N.E.C. N.I.C. NL NFPA NEMA LFMC P.A. PNL. PTZ RECEPT. RMC	GROUND FAULT INTERRUPTER GROUND HIGH INTENSIVE DISCHARGE HIGH PRESSURE SODIUM ISOLATED GROUND LIGHT LIGHT UGHT UGST MAIN CIRCUIT BREAKER MAIN CIRCUIT BREAKER MAIN LUGS ONLY MOUNT MOUNT MOUNT MOUNT MOUNT MOUNTING HEIGHT NATIONAL ELECTRICAL CODE NOT IN CONTRACT NIGHT LIGHT NATIONAL FIRE PROTECTION ASSOCIATION NATIONAL FIRE PROTECTION ASSOCIATION NATIONAL FIRE PROTECTION ASSOCIATION NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION. LIQUID TIGHT FLEXIBLE METAL CONDUIT PUBLIC ADDRESS PANEL PAN-TILT-ZOOM CAMERA RECEPTACLE RIGID METAL CONDUIT	© \$∲ ₽ ₩ ₩ ₩ ₩	CONTACTOR FAN MOTOR "2" W TRANSFORM DEVICES DUPLEX REC SINGLE RECE DUPLEX RECE (44" A.F.F.) U.G
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I.G. LT. LTG. MCB MLO MT. MTG. HT. N.E.C. N.I.C. NL NFPA NEMA LFMC P.A. PNL. PTZ RECEPT. RMC	ISOLATED GROUND LIGHT LIGHT MAIN CIRCUIT BREAKER MAIN CIRCUIT BREAKER MAIN LUGS ONLY MOUNT MOUNT MOUNTING HEIGHT NATIONAL ELECTRICAL CODE NOT IN CONTRACT NIGHT LIGHT NATIONAL FIRE PROTECTION ASSOCIATION NATIONAL FIRE PROTECTION ASSOCIATION NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION. LIQUID TIGHT FLEXIBLE METAL CONDUIT PUBLIC ADDRESS PANEL PAN-TILT-ZOOM CAMERA RECEPTACLE RIGID METAL CONDUIT	② POWER ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩	MOTOR "2" W TRANSFORM DEVICES DUPLEX REC SINGLE RECE DUPLEX RECI (44" A.F.F.) U.(
LTG. MCB MLO MT. MTG. HT. N.E.C. N.I.C. NL NFPA NEMA LFMC P.A. PNL. PTZ RECEPT. RMC	LIGHTING MAIN CIRCUIT BREAKER MAIN LUGS ONLY MOUNT MOUNT MOUNTING HEIGHT NATIONAL ELECTRICAL CODE NOT IN CONTRACT NIGHT LIGHT NATIONAL FIRE PROTECTION ASSOCIATION NATIONAL FIRE PROTECTION ASSOCIATION NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION. LIQUID TIGHT FLEXIBLE METAL CONDUIT PUBLIC ADDRESS PANEL PAN-TILT-ZOOM CAMERA RECEPTACLE RIGID METAL CONDUIT	POWER 어 어 아 북	DEVICES DUPLEX REC SINGLE RECE DUPLEX RECE (44" A.F.F.) U.G
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P.A. PNL. PTZ RECEPT. RMC	PUBLIC ADDRESS PANEL PAN-TILT-ZOOM CAMERA RECEPTACLE RIGID METAL CONDUIT		D
PTZ RECEPT. RMC	PAN-TILT-ZOOM CAMERA RECEPTACLE RIGID METAL CONDUIT		DUPLEX REC
RMC	RIGID METAL CONDUIT	€	QUAD - PLEX
5 D B C		Ø	DUPLEX REC
SW.	SOFT DRAWN BARE COPPER SWITCH	0	DUPLEX REC
TVSS U.O.N. V.P.	TRANSIENT VOLTAGE SURGE SUPPRESSION PANEL UNLESS OTHERWISE NOTED VAPOR PROOF	●○	SPECIAL PUF
V.F. VOC WAP	VAFOR FROOF VOLATILE ORGANIC COMPOUND WIRELESS ACCESS POINT	OH	WALL MOUN
W.G. W.P.	WIRE GUARD. WEATHER PROOF (NEMA 3R ENCLOSURE)		FLOOR MOUNTO WIREMO
X.P.	EXPLOSION PROOF (CLASS TO MEET N.E.C.)	PB	HARDWIRE F
LIGHTIN	<u>G FIXTURES</u>		I OLL DOX
\bigcirc	LIGHTING FIXTURE IDENTIFICATION. SEE SCHEDULE	WIRING	
	HID OR FLUORESCENT DOWN LIGHT ACCENT TYPE LIGHT FIXTURE	\frown	BRANCH CIR 12 CONDUCT
	HID OR FLUORESCENT WALL MOUNTED LIGHT FIXTURE		SHOWN, INDI (↓) INDICATE
	RECESSED / LAY-IN MOUNTED FLUORESCENT LIGHT FIXTURE		LARGER THA
	SURFACE OR PENDANT MOUNTED FLUORESCENT LIGHT FIXTURE	A-1,3,5	HOME RUN T U.O.N. MINIM HOMERUN. (D
<u> </u>	WALL MOUNTED FLUORESCENT LIGHT FIXTURE	\sim	FLEXIBLE CC
<u>—</u> —	SURFACE OR PENDANT MOUNTED FLUORESCENT STRIP		CONDUIT RU
•	HID DOWN LIGHT ON NIGHT LIGHT CIRCUIT & EQUIPPED WITH RESTRIKE SYSTEM	—	
• 1	HID WALL MOUNTED LIGHT FIXTURE ON NIGHT LIGHT CIRCUIT RECESSED/FLUORESCENT LIGHT FIXTURE ON EMERGENCY CIRCUIT OR	 C	CONDUIT RU CAPPED CON
	EMERGENCY BATTERY PACK.		SYSTEM AND
	SURFACE MOUNTED FLUORESCENT LIGHT FIXTURE ON LIGHT CIRCUIT OR EMERGENCY BATTERY PACK.	<mark> </mark> − × ^S	GROUNDING
	EXIT LIGHT WALL MOUNTED EXIT LIGHT SHADED QUADRANT INDICATES NUMBER OF FACES.		CABLE TRAY
	ARROWS AS SHOWN OR REQUIRED.		
	UNIT EQUIPMENT BATTERY BACKUP EMERGENCY LIGHT		TELEPHONE
-0	COMBINATION EXIT / EMERGENCY LIGHT WITH BATTERY BACKUP. LANDSCAPE LIGHT FIXTURE		TELEPHONE
-	POLE MOUNTED SINGLE SITE LIGHTING FIXTURE	\bigtriangledown	DATA OUTLE TELEPHONE
다	POLE MOUNTED DOUBLE SITE LIGHTING FIXTURE	T	TELEPHONE
0HS	DAYLIGHT HARVESTING SENSOR TO INCLUDE POWER PACK AND RELAY AS REQUIRED.	W	WALL MOUN
0	CEILING MOUNTED OCCUPANCY SENSOR. INCLUDE POWER PACK AS REQUIRED.		TERMINAL C
	OCCUPANCY SENSOR POWER PACK.	WIFI	WIRELESS A
	LTG. TRANSFER RELAY. SINGLE POLE SWITCH - 20 AMP (48" A.F.F.)	R	RADIO REMO
- ·	THREE WAY SWITCH - 20 AMP (48" A.F.F.)		
	FOUR WAY SWITCH - 20 AMP (48" A.F.F.) DIMMER SWITCH 2000 WATTS 48" A.F.F.)	H M M	MICROPHON AUDITORIUM
SF	FAN SPEED CONTROL (48" A.F.F.)	RRS	ROOM RESE
- · · ·	KEY OPERATED SWITCH - 20 AMP (48" A.F.F.) SINGLE POLE SWITCH WITH PILOT LIGHT - 20 AMP(48" A.F.F.)	TB	RECESSED T
	MOTOR RATED SWITCH (ONE, TWO OR THREE POLE AS REQUIRED)		AV. TOUCH F
•			INTERCOM (
	OCCUPANCY SENSOR SINGLE POLE SWITCH - 20 AMP. (42" AFF). OCCUPANCY SENSOR 2 RELAY DUAL TECH SWITCH - 20 AMP. (42" AFF).		INTERCOM @
_	OVERRIDE SWITCH - 20 AMP. (42" AFF).		CATV STATIC
FIRE AI	ARM DEVICES	H <u>av</u> Htv	WALL MOUN
<u></u> F	FIRE ALARM PULL STATION (48" A.F.F.) SEMI FLUSH MOUNTED,	डाटा	CLOCK (8'-0"
E	PROVIDE BREAKABLE GLASS COVER. FIRE ALARM HORN WITH STROBE LIGHT (80"A.F.F.) ADA	E •	CLOCK/ INTE NORMAL/ EM
	FIRE ALARM SPEAKER WITH STROBE LIGHT (80 A.F.F.) ADA	SECURI	TY SYSTEM
S S	FIRE ALARM SPEAKER WITH STROBE LIGHT. CEILING MOUNTED	CCTV RACK	CLOSE CIRC
S	FIRE ALARM MASS NOTIFICATION SPEAKER. CEILING MOUNTED	HOCTVR	CCTV CAME
Ă	FIRE ALARM STROBE LIGHT - 75 CANDELA MIN (80 " A.F.F.) OR 6" BELOW	£	SECURITY D
X	CEILING WHISHEVER IS LOWER, INSTALLATION SHALL COMPLY WITH A.D.A., FIRE ALARM STROBE LIGHT. CEILING MOUNTED	B	SECURITY DO
SD	24V SMOKE DETECTOR (PHOTOELECTRIC TYPE).	KP	SECURITY S
© _н	SMOKE AND HEAT DETECTOR	CR ®	SECURITY S
Θ	24V FIXED TEMPERATURE 135° F THERMAL DETECTOR.		SECURITY S
Ō	24V PHOTOELECTRIC DUCT DETECTOR.	GB	SECURITY S
DH	FIRE ALARM DOOR HOLDER	DS	SECURITY SY
FS	FIRE ALARM FLOW SWITCH	© ML	SECURITY SY
TS	FIRE ALARM TAMPER SWITCH	RX- PS	SECURITY SY POWER SUPP

RIBUTION PANELBOARD 277/480V RIBUTION PANELBOARD 120/208V

ELBOARD 277/480V.

- ELBOARD 120/208V. NNECT OR CIRCUIT BREAKER. NEMA 3R WHEN OUTDOORS
- =SWITCH SIZE, 50=FUSE, NF=NON-FUSED, QUIRED BY LOAD.
- V/CONTROL XMFR, HOA SELECTOR SW. AND RED PILOT BY MOTOR. PROVIDE NEMA 4 ENCLOSURE WHEN
- OR STARTER WITH DISCONNECT SWITCH OR CB. SAME CCESSORIES AS INDICATED ABOVE
- ENCLOSURE AND ACCESSORIES AS STARTERS

HOWN INDICATES HORSEPOWER

20 AMP NEMA 5-20R (18" A.F.F.) U.O.N.) AMP NEMA 5-20R (18" A.F.F.) U.O.N. OUNTED ABOVE COUNTER - 20 AMP NEMA 5-20R

- JPS CONNECTION) 20 AMP NEMA 5-20R (18" A.F.F.) VIST LOCK - 20 AMP NEMA L5-20R (18" A.F.F.)
- PT 20 AMP NEMA 5-20R (18" A.F.F.) USH FLOOR MOUNTED - 20 AMP NEMA 5-20R LUSH CEILING MOUNTED - 20 AMP NEMA 5-20R
- RECEPT (18" A.F.F.)

NCTION BOX

JNCTION BOX UNDER RAISED FLOOR FOR CONNECTION STRIP MOUNTED AT RACKS AND FURNITURE BY A CONNECTION BY ELECTRICAL CONTRACTOR.

- R FEEDER WIRING IN CONDUIT. NO TICKS INDICATES 2 # 1 # 12 GROUND IN 3/4" CONDUIT. TICK MARKS WHEN NUMBER OF # 12 CONDUCTORS IF OTHER THAN THREE, OUND. CONDUIT LARGER THAN 3/4" & CONDUCTOR SHALL BE AS INDICATED.
- IEL "A" = PANEL DESIGNATION, 1,3,5 = CIRCUIT NUMBERS. ZE OF 3/4"C AND MAXIMUM OF THREE CIRCUITS PER ED NEUTRAL FOR EACH HOT WIRES MUST BE PROVIDED)
- ICEALED IN CEILING OR WALLS ERGROUND OR IN SLAB
- SFD
- QUIPMENT GROUNDING CONDUCTOR RODE AND CONDUCTOR SYSTEM

TIONS

- A OUTLET (4"x 4"x 2 1/2" OUTLET BOX) (18" A.F.F.) A OUTLET FLUSH FLOOR MOUNTED 4"x 2 1/2" OUTLET BOX) (18" A.F.F.) T FLUSH FLOOR MOUNTED
- (4"x 4"x 2 1/2" OUTLET BOX)(18" A.F.F.)
- LEPHONE OUTLET (60"A.F.F.)
- TYPE INDICATED
- NAL BACK BOARD POINT

LET (18" AFF) SYSTEM MONITOR SPEAKER (7'-0"AFF) N SYSTEM. POWERED OVER ETHERNET

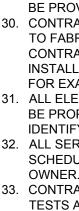
BOX, 2 CATEGORY 6 CABLE, 1VGAW / TV, 1 HDMI, AL OUTLET (EXTRON 300S CABLE CUBBY)

I (WALL MTD)-3GANG BOX @ 4'-0" STATION) SAME AS WALL MTD \.F.F.

- 2'-6" A.F.F. (U.N.O.) JDIO VISUAL OUTLET. OUTLET.
- SPEAKER.
- NCY CALL-IN PUSH BUTTON. ICES
- MONITORS
- ELEASE BUTTON ELL CHIME KEYPAD
- CARD READER
- UHF CARD READER MOTION DETECTOR
- GLASS BREAKER SENSOR
- DOOR STRIKE
- DOOR CONTACT
- MAGNETIC LOCK
- REQUEST TO EXIT. (CEILING MOUNTED)

GENERAL NOTES:

- 1. SITE INVESTIGATION: PRIOR TO BIDDING THE CONTRACTOR SHALL VISIT THE JOBSITE AND BECOME ACQUAINTED WITH ALL OF THE EXISTING CONDITIONS WHICH WILL AFFECT HIS WORK. FAILURE TO DO SO WILL NOT BE ACCEPTED AS A REASON FOR REQUESTING EXTRA PAY WHERE THE EXISTING CONDITION RESULTS IN EXTRA MATERIAL OR LABOR. THE CONTRACTOR SHALL SUBMIT IN HIS BID AN AMOUNT THAT
- WOULD BE SET ASIDE FOR UNIDENTIFIED ITEMS 2. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS MANNER AND SHALL BE A COMPLETED AND FULLY OPERATIVE TO THE ACCEPTANCE OF THE OWNER, GENERAL CONTRACTOR AND ENGINEER.
- 3. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY FOR THE COMPLETE INSTALLATION OF THE ELECTRICAL SYSTEMS, ALL IN ACCORDANCE WITH THESE CONSTRUCTION DOCUMENTS. ALL WORK PERFORMED UNDER THIS CONTRACT SHALL COMPLY WITH THE FLORIDA BUILDING CODE 2014 AND NFPA CODES INCLUDING, BUT NOT LIMITED TO NFPA 70 - (2011 N.E.C.), NFPA 72 (2010) -(FIRE ALARM) AND NFPA 101 - LIFE SAFETY CODE (2012).
- 4. THIS CONTRACTOR SHALL PAY FOR ALL FEES, INSPECTIONS, TESTS, FINES, ETC., AS REQUIRED.
- 5. MINIMUM STANDARDS: THE MATERIAL, EQUIPMENT, INSTALLATIONS, AND WORKMANSHIP FURNISHED UNDER THIS SECTION SHALL CONFORM AT LEAST TO THE REQUIREMENTS OF THE REGULATING AGENCIES AS LISTED IN ITEM (3) ABOVE.
- 6. RESPONSIBILITIES: CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A COMPLETE INSTALLATION OF THE RACEWAY SYSTEM, EQUIPMENT AND WIRING IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 7. GUARANTEE: THE CONTRACTOR/SUB-CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE THAT ALL WORK EXECUTED UNDER THIS CONTRACT SHALL BE FREE FROM DEFECTS OF WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE AND THAT HE, AT HIS OWN EXPENSE, WILL REPAIR OR REPLACE ALL WORK WHICH BECOMES DEFECTIVE DURING THE TIME OF THE GUARANTEE.
- 8. ALL EQUIPMENT, SYSTEMS AND SYSTEM COMPONENTS SHALL BE FROM THE SAME MANUFACTURER AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS AND SPECIFICATIONS.
- 9. VERIFY ALL DIMENSIONS PRIOR TO FABRICATIONS OR INSTALLATION. 10. OBTAIN FULL INFORMATION REGARDING PECULIARITIES AND LIMITATIONS OF SPACE AVAILABLE FOR INSTALLATION OF THE EQUIPMENT AND MATERIALS UNDER CONTRACT. AND PROVIDE READY ACCESSIBILITY TO ELECTRICAL EQUIPMENT, INCLUDING ANY
- PART OF SYSTEM REQUIRED TO BE REACHED FOR MAINTENANCE AND OPERATIONS. 11. PROVIDE ACCURATE LAYOUT, GRADES AND ELEVATIONS. TAKE PROPER PRECAUTIONS TO PROTECT WORK AND EQUIPMENT FROM DAMAGE. 12. PROVIDE CODE APPROVED FIRE STOPPING AT ALL CONDUIT PENETRATIONS
- THROUGHOUT BUILDING CONSTRUCTION TO MAINTAIN FIRE, SMOKE AND SOUND RATING. FIRE SEAL ALL PENETRATIONS. SEAL TELECOMMUNICATION SLEEVES AFTER CABLES HAVE BEEN INSTALLED.
- 13. RACEWAYS AND FITTINGS: CONDUIT RUNS SHALL BE CONCEALED IN CEILING SPACES AND WALL PARTITIONS. NO CONDUIT SHALL BE EXPOSED IN INTERIOR SPACES EXCEPT FLEXIBLE CONNECTION TO WIRE MOLDS. CONCEALED CONDUITS ARE TO BE EMT. SURFACE MOUNTED RACEWAYS (WIRE MOLD) ARE TO BE INSTALLED IN SOLID WALLS ONLY. THE MINIMUM CONDUIT SIZE IS TO BE 1/2". ALL CONDUITS AND RACEWAYS SHALL BE METAL.
- 14. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH OTHERS AS WELL AS PROVIDING TEMPORARY POWER.
- 15. VERIFY EQUIPMENT SIZES, VOLTAGE AND CURRENT CHARACTERISTICS, ETC., BEFORE THE ORDERING OF ANY EQUIPMENT AND PRIOR TO ROUGHING-IN FOR EQUIPMENT TO BE SUPPLIED TO OTHERS. NOTIFY ENGINEER OF ANY CONFLICT.
- 16. PROVIDE COMPLETE POWER CIRCUIT WIRING AND CONNECTIONS FOR EACH AND EVERY ITEM OF PERMANENT MECHANICAL EQUIPMENT. PRIOR TO ANY ROUGH-IN, COORDINATE WITH HVAC AND PLUMBING EQUIPMENT NAME PLATE TO OBTAIN CORRECT WIRE SIZE AND OVERCURRENT PROTECTION RATING. IF THE NAME PLATE LABEL REQUIRES THE OVERCURRENT PROTECTION DEVICE TO BE FUSES, PROVIDE A FUSED SWITCH WITH PROPER SIZE FUSES AT THE EQUIPMENT LOCATION.
- 17. CONDUCTOR: ALL CONDUCTOR WIRE AND CABLE SHALL CONSIST OF 98% CONDUCTIVITY COPPER. ALL CABLES SHALL BE SINGLE CONDUCTOR, 600 VOLT, THERMOPLASTIC INSULATION. SUITABLE FOR CONTINUOUS OPERATION AT 75 DEGREES C. CONDUCTOR TEMPERATURE IN BOTH WET AND DRY LOCATIONS. THESE CABLES SHALL BE N.E.C. INSULATION CLASSIFICATION TYPE THWN/THHN. MINIMUM SIZE SHALL BE #12. ALL CONDUCTOR INSULATION SHALL BE COLOR CODED MAINTAINING THE INTEGRITY OF THE EXISTING INSTALLATION. COLORED INSULATION SHALL BE USED FOR AWG SIZES #10 AND SMALLER AND APPROVED COLOR TAPES SHALL BE USED FOR AWG SIZES #8 AND LARGER. ALL POWER AND CONTROL CIRCUITS SHALL CARRY EQUIPMENT GROUNDING CONDUCTOR SIZED PER NEC 250-122.
- 18. THE NATURE OF THIS TYPE OF CONSTRUCTION POSES SPECIAL PROBLEMS FOR THE DESIGN ENGINEER AS WELL AS THE CONTRACTOR. EVERY EFFORT HAS BEEN MADE BY THE ENGINEER TO SHOW AND VERIFY WHERE POSSIBLE THE LOCATION OF THE EXISTING ELECTRICAL SYSTEM. THE MAJOR PORTION OF THE ELECTRICAL SYSTEMS ARE AS SHOWN ON THE DRAWINGS. HOWEVER, MINOR DEVIATIONS MAY BECOME EVIDENT AS THE JOB PROGRESSES. NO ADVANTAGE IS TO BE TAKEN BY THE CONTRACTOR BECAUSE OF THESE MINOR DIFFERENCES.
- 19. CORRECTION OF ANY DEFECTS, REPAIRS OR DAMAGE DURING CONSTRUCTION AS WELL AS ANY MINOR CHANGES IN OUTLET LOCATIONS SHALL BE MADE WITHOUT ADDITIONAL COST.
- 20. GUTTERS, PULL BOXES, ETC., SHALL BE GALVANIZED STEEL SIZED PER NATIONAL ELECTRICAL CODE, ARTICLE 312, 314 AND 376 MADE OF MATERIAL SUITABLE FOR THE ENVIRONMENTAL CONDITIONS PRESENT.
- 21. ALL FLOORS, WALLS AND ROOF PENETRATIONS SHALL BE PROPERLY SEALED-OFF. IF FIRE RATED, AN APPROVED FIRE RETARDANT SEAL SHALL BE USED.
- 22. ALL WIRING SHALL BE IN RACEWAY A. INDOORS - USE THE FOLLOWING WIRE METHODS:
 - EXPOSED: EMT
 - CONCEALED: EMT CONNECTION TO VIBRATION EQUIPMENT (INCLUDING TRANSFORMERS AND HYDRAULIC, PNEUMATIC, ELECTRIC SOLENOID, OR MOTOR - DRIVEN EQUIPMENT); FMC, EXCEPT IN WET OR DAMP LOCATIONS USE LFMC.
 - DAMP OR WET LOCATIONS: RIGID STEEL CONDUIT.
 - BOXES AND ENCLOSURES: NEMA 250, TYPE I, EXCEPT AS FOLLOWS: DAMP OR WET LOCATIONS: NEMA 250, TYPE 3R STEEL.
 - DAMP OR WET LOCATIONS: 250, TYPE 4, NONMETALLIC.
 - UNDERGROUND RNC (SINGLE RUN OR GROUPED).
- D. SEALING FITTINGS SHALL BE INSTALLED AT FOLLOWING POINTS, AND ELSEWHERE AS SHOWN.
- WHERE REQUIRED BY THE NEC.
- 23. THESE DRAWINGS ARE A GUIDE FOR THE INSTALLATION OF THE RACEWAY SYSTEM AND EQUIPMENT. THEY ARE INTENDED TO SHOW THE GENERAL ARRANGEMENT, DESIGN AND EXTENT OF THE WORK AND ARE PARTLY DIAGRAMMATIC. THE CONTRACTOR IS
- RESPONSIBLE FOR PROVIDING A COMPLETE AND FUNCTIONAL INSTALLATION. 24. CIRCUIT NUMBERS ARE FOR IDENTIFICATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR CORRECTLY PHASING THE CIRCUITS IN THE PANEL AND SHALL BALANCE THE LOAD ON THE PHASES UNDER NORMAL OPERATING CONDITIONS. PROVIDE TYPE WRITTEN PANEL BOARD DIRECTORIES IN EXISTING PANEL BOARD
- DIRECTORIES. UPDATE ALL DIRECTORIES IN EXISTING PANEL BOARDS AFFECTED BY THIS PROJECT ELECTRONICALLY TRACING ALL CIRCUITS. 25. ANY DEVIATION FROM THESE DRAWINGS AND SPECIFICATIONS MUST BE AUTHORIZED IN WRITING FROM THE ENGINEERS OFFICE. THE CONTRACTOR SHOULD BE HELD LIABLE
- FOR ANY DEVIATIONS WITHOUT SUCH AUTHORIZATION. 26. ALL POWER AND LIGHTING CIRCUITS SHALL HAVE A GREEN EQUIPMENT GROUNDING



CONDUCTOR SIZED AS PER NEC 250-122. NEUTRAL CONDUCTOR SHALL BE 10 AWG (MINIMUM CU-THW) IN ALL MULTICIRCUIT BRANCH CIRCUITS. 27. PROVIDE NYLON PULL STRINGS IN ALL EMPTY CONDUITS FOR FUTURE USE. 28. COLOR CODING FOR CONDUCTORS:

 WIRING FOR 120/240 VOLT SYSTEM SHALL BE AS FOLLOWS: PHASE A - BLACK PHASE B (HIGH LEG) - ORANGE

PHASE C - RED

NEUTRAL - WHITE GROUND - GREEN

 COLORS ON CONDUCTOR 6 AWG AND SMALLER SHALL BE AN INTEGRAL PART OF INSULATION. ON CONDUCTOR 4 AWG AND LARGER CONDUCTORS, EITHER COLOR CODING TAPE OR PAINTED WITH TWO COATS OF CORRECT COLOR PAINT AT ALL TERMINALS AND CONNECTION POINTS.

* UNLESS OTHERWISE REQUIRED BY APPLICABLE CODE.

29. ANY WORK NOT SHOWN OR SPECIFICALLY MENTIONED ON THESE PLANS BUT CONSIDERED NECESSARY FOR COMPLETION OF WORK IN THE PROPER MANNER SHALL BE PROVIDED BY THE CONTRACTOR WITHOUT ADDITIONAL CHARGE. 30. CONTRACTOR SHALL VERIFY SPACE CONDITIONS AND DIMENSIONS AT JOB SITE PRIOR TO FABRICATION AND INSTALLATION OF MATERIALS AND EQUIPMENT. ELECTRICAL CONTRACTOR IS TO COORDINATE HIS WORK WITH THE ARCHITECT BEFORE ROUGH INSTALLATION OF ALL OUTLETS (LIGHTS, RECEPTACLES, SWITCHES, PULL BOXES, ETC.)

FOR EXACT LOCATION. 31. ALL ELECTRICAL EQUIPMENT SUCH AS PANELS, PULL/J-BOXES, FEEDERS, ETC. SHALL BE PROPERLY IDENTIFIED WITH A PERMANENT LABEL AFFIXED TO THE EQUIPMENT. IDENTIFY CIRCUIT IN PANELS BY MEANS OF A TYPED, PLASTIC COVERED DIRECTORY. 32. ALL SERVICE INTERRUPTIONS AND ALL REMOVAL AND DISPOSAL WORK SHALL BE SCHEDULED AND COORDINATED WITH THE AUTHORIZED REPRESENTATIVE OF THE

33. CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, TAXES, INSPECTIONS, TESTS AND OTHER ITEMS AS REQUIRED INSURANCE FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK. 34. CONTRACTOR SHALL MAINTAIN A COMPLETE SET OF PRINTS FOR INDICATING ALL CHANGES AS THE CONTRACTOR PROGRESSES. AT THE COMPLETION OF THE WORK,

THE CONTRACTOR SHALL DELIVER A SET OF AS-BUILT DRAWINGS TO THE OWNER IN REPRODUCIBLE MATERIAL. CONTRACTOR SHALL STAMP AS-BUILT ON THE PLANS (EACH SHEET), PRINT, DATE, AND SIGN WITH INK.

35. ELECTRICAL EQUIPMENT TO BE PROVIDED WITH A WARNING LABEL FOR ARC FLASH HAZARDS IN COMPLIANCE WITH NEC 110.16.

36. PROJECT TO COMPLY WITH THE REQUIREMENT OF CURRENT EDITION OF NFPA 241 STANDARDS FOR SAFE GUARDING CONSTRUCTION, ALTERATION, AND DEMOLITION OPERATIONS.

37. CONTRACTOR SHALL PROVIDE THE REQUIRED MEASURES FOR THE SAFEGUARDING OF THE EXISTING FACILITY AND SYSTEMS THEREIN DURING THE PERFORMANCE OF THE CONSTRUCTION, DEMOLITION AND ALTERATION OPERATIONS UNDER THIS PROJECT IN ACCORDANCE WITH NFPA 241 2009 EDITION.

38. ALL LAMPS SPECIFIED AND PURCHASED PER BUILDING NOT TO EXCEED AN OVERAGE OVERALL MERCURY-CONTENT OF 90 PICOGRAMS OF MERCURY PER LUMEN-HOUR. CONTRACTOR TO SUBMIT LAMP DATA SHEETS TO LEED CONSULTANT SHOWING COMPLIANCE PRIOR TO PURCHASE AND INSTALLATION, AND SHALL TRACK MERCURY CONTENT OF ALL LAMP TYPES.



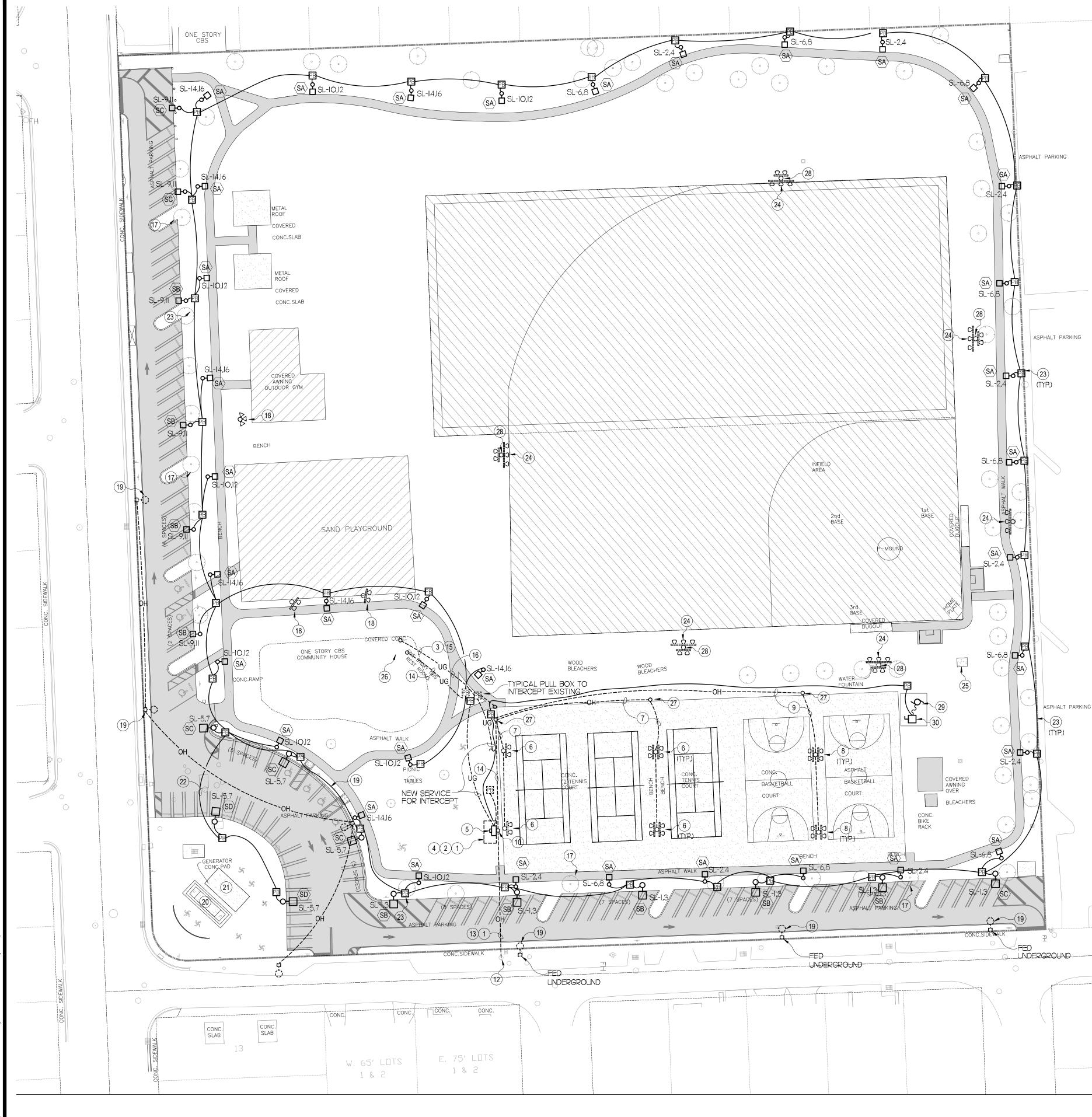
LEGEND AND GENERAL NOTES - ELECTRICAL

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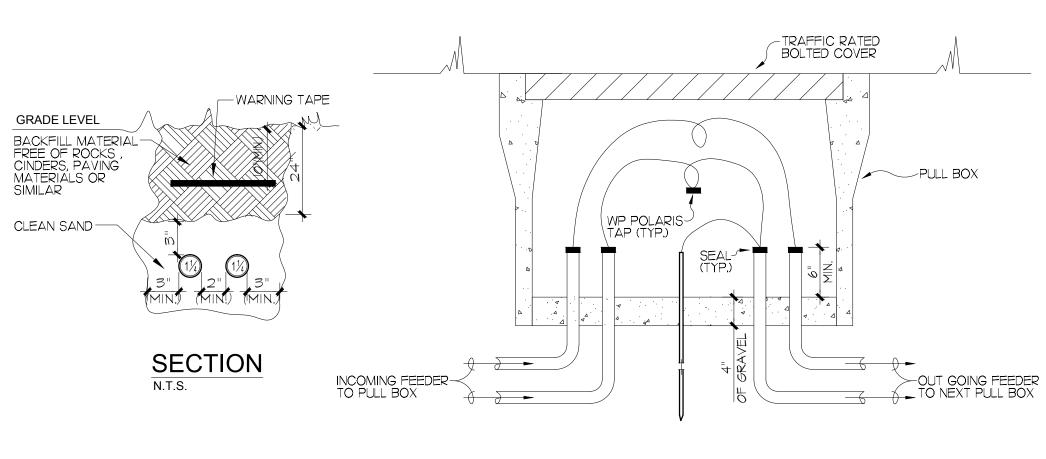
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		LIGH	ΤΙΝΟ	G FIXTURE S	СНЕ	DULE						
	MANUFACTURER & CATALOG No.			LAMPS		FIXT	URE	2514.01/0				
TYPE	(OR APPROVED EQUIVALENT)	MOUNTING	NO.	TYPE	WATTS	SERVICE VOLTS	TOTAL WATTS	REMARKS				
SA	PHILLIPS HADCO RL32-N64-12' POLE	12' POLE (A.F.G.)	_	LED	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				
REMAR	(S:											
	1. PROVIDE IN-LINE FUSE TO ALL FIXTUR		X AT BA	ASE.								
	2. PROVIDE WP CONNECTIONS AT PULL	BOX										

ELECTRICAL KEY NOTES:

- (1.) 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.
- (2.) ALL NEW ELECTRICAL EQUIPMENT SHALL BE NEMA 3R TYPE.
- (3.) ELECTRICAL CONTRACTOR IS TO MATCH EXISTING INSTALLATION CONDUITS AND WIRE SIZE.
- (4.) 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.
- (5.) EXISTING DAMAGED FPL METER CAN TO BE REMOVED AND RELOCATED INSIDE NEW CAGED DISTRIBUTION FOR LIMITED ACCESS TO UNAUTHORIZED PERSONNEL.
- (6.) EXISTING TENNIS COURT LIGHT POLES AND 1000W FIXTURES TO REMAIN.
- (7.) EXISTING AERIAL TENNIS COURTS LIGHTING SERVICE TO REMAIN.
- (8.) EXISTING BASKETBALL COURT LIGHT POLES AND 1000W FIXTURES TO REMAIN.
- (9.) EXISTING AERIAL BASKETBALL COURTS LIGHTING SERVICE TO REMAIN.
- (10.) EXISTING FPL SERVICE POLE. 120 / 240 3 PHASE.
- (11.) EXISTING ELECTRICAL DISTRIBUTION SERVING BASEBALL FIELD.
- (12) EXISTING FPL 120/240-3W, 1-PHASE TERMINAL POLE INSTALLATION TO REMAIN.
- (13) EXISTING FPL OVERHEAD SERVICE TO REMAIN.
- (14) 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.
- (15) 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.

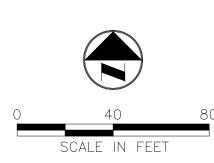




- (16) EXISTING BASKETBALL COURT ELECTRICAL SERVICE FROM EXISTING ELECTRICAL ROOM (TO BE REMOVED), PROVIDE A NEW PULL BOX TO INTERCEPT ELECTRICAL SERVICE AND EXTEND OVER TO NEW OUTDOOR DISTRIBUTION.
- (17) EXISTING TREE CANOPY TO BE TRIMMED TO ALLOW FOR PROPER LIGHT DISTRIBUTION.
- (18) EXISTING POLE MOUNTED SECURITY LIGHTING TO REMAIN. INTERCEPT EXISTING ELECTRICAL SERVICE WITH A NEW PULL BOX FROM WHERE TO EXTEND FEEDER OVER TO NEW ELECTRICAL DISTRIBUTION.
- (19) EXISTING FPL COBRA HEAD FIXTURES, WIRING AND POLES TO BE REMOVED.
- 20) EXISTING LIFT STATION GENERATOR AND SUB-BASE TANK TO REMAIN.
- (21) EXISTING LIFT STATION TO REMAIN.
- (22) TRENCH EXISTING ASPHALT PARKING TO CROSS CONDUIT AS REQUIRED AND RESTORE TO MATCH CURRENT CONDITIONS. COMPACT SOIL AS NEEDED.
- (23) 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)
- (24) EXISTING BASEBALL FIELD MUSCO LIGHTING TO REMAIN.
- (25) EXISTING BASEBALL FIELD LIGHTING AND ASSOCIATED SECURITY LIGHTING TO REMAIN. 277//480V, 3-PHASE, 4-WIRE SERVICE IN A FENCED ENCLOSURE. (MUSCO LIGHTING DISTRIBUTION.)
- (26) EXISTING ELECTRICAL ROOM IN BUILDING TO BE REMOVED. 120/240V, 1-PHASE, 3-WIRE.
- (27) EXISTING WOOD POLE TO REMAIN.
- FED FROM MUSCO LIGHTING DISTRIBUTION. (28)
- (29) IRRIGATION BOOSTER PUMP IN A CHAIN LINK ENCLOSURE. SEE CIVIL DRAWINGS FOR DETAILS.
- (30) 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

NOT FOR CONSTRUCTION

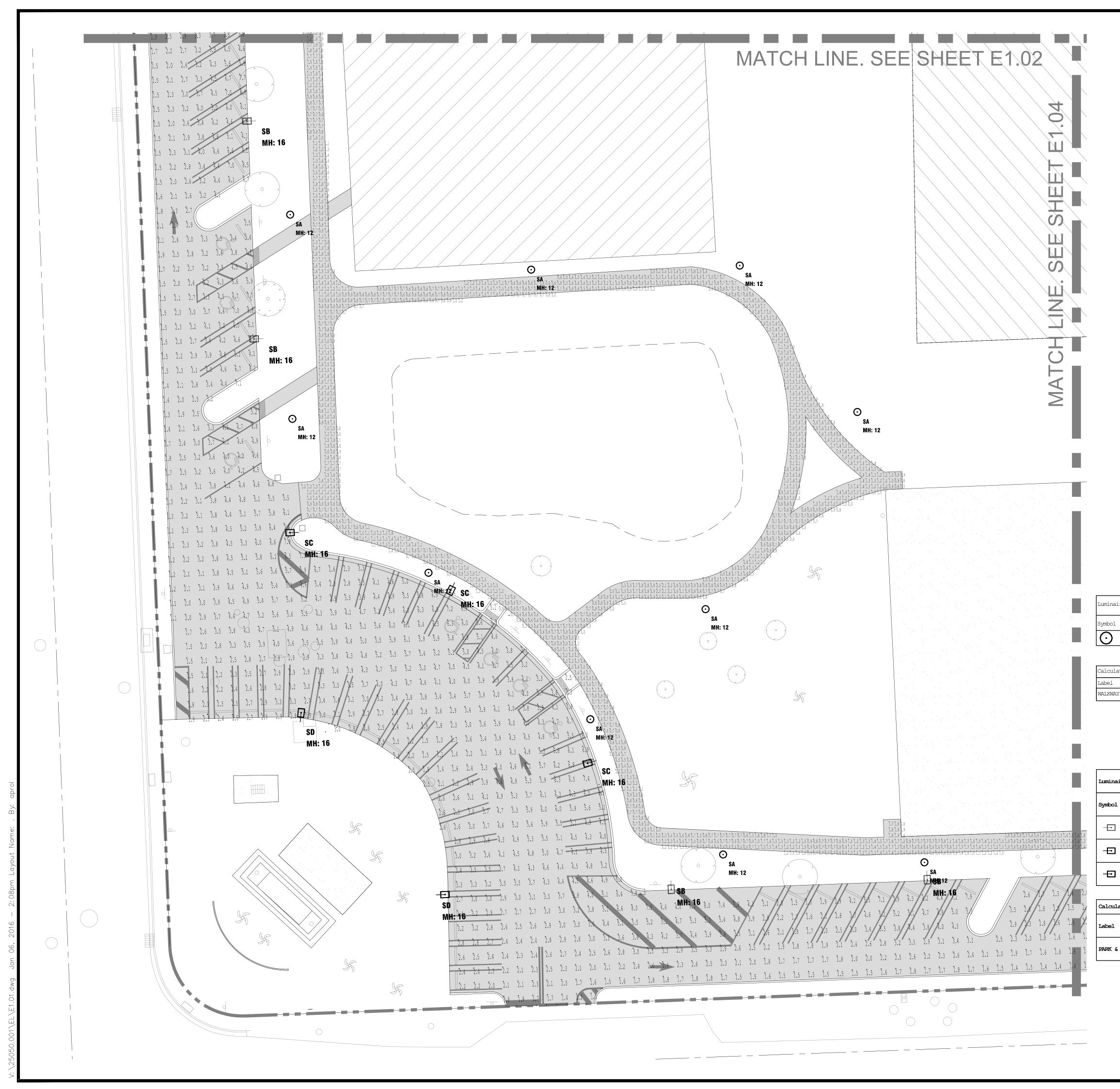




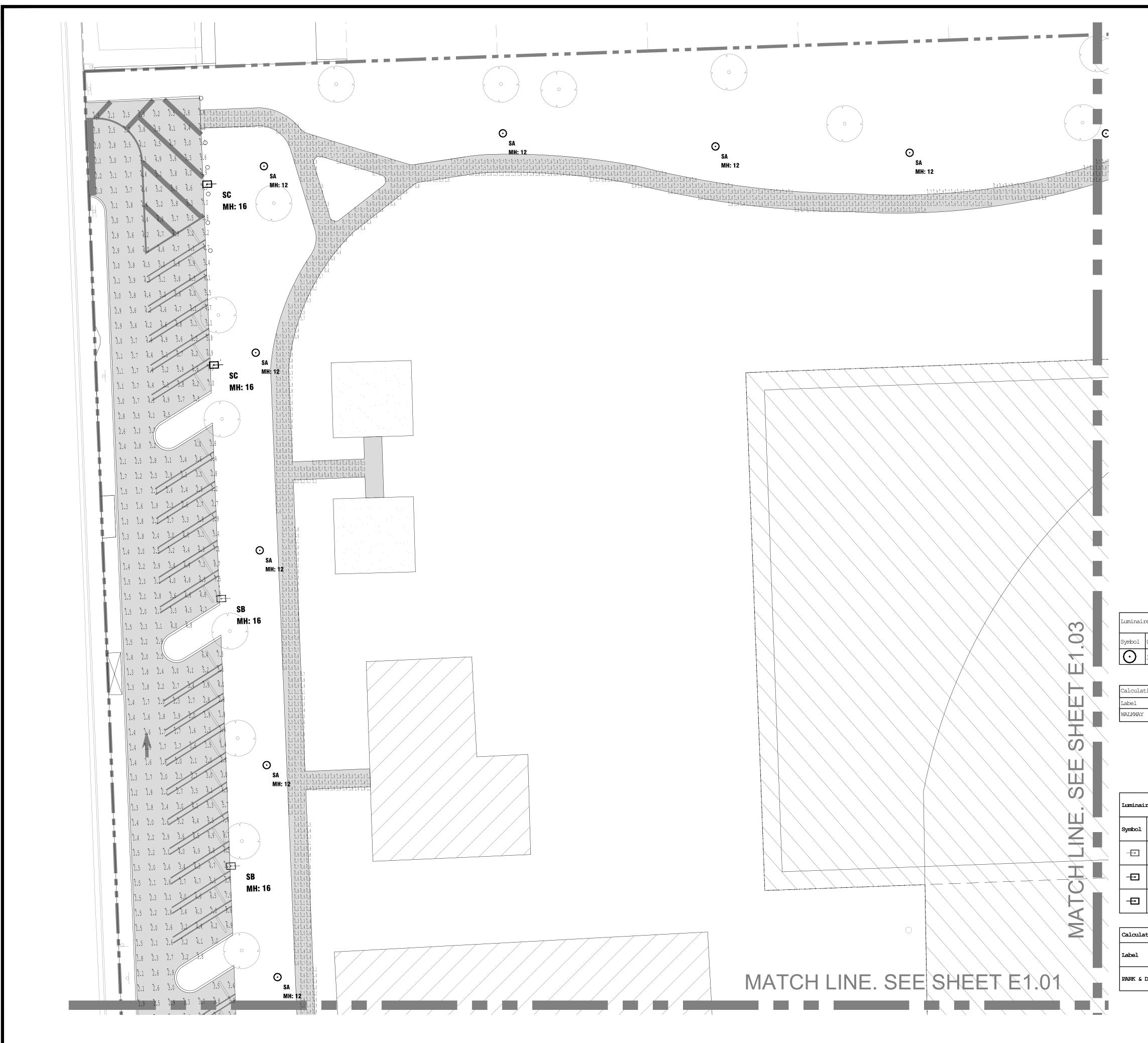
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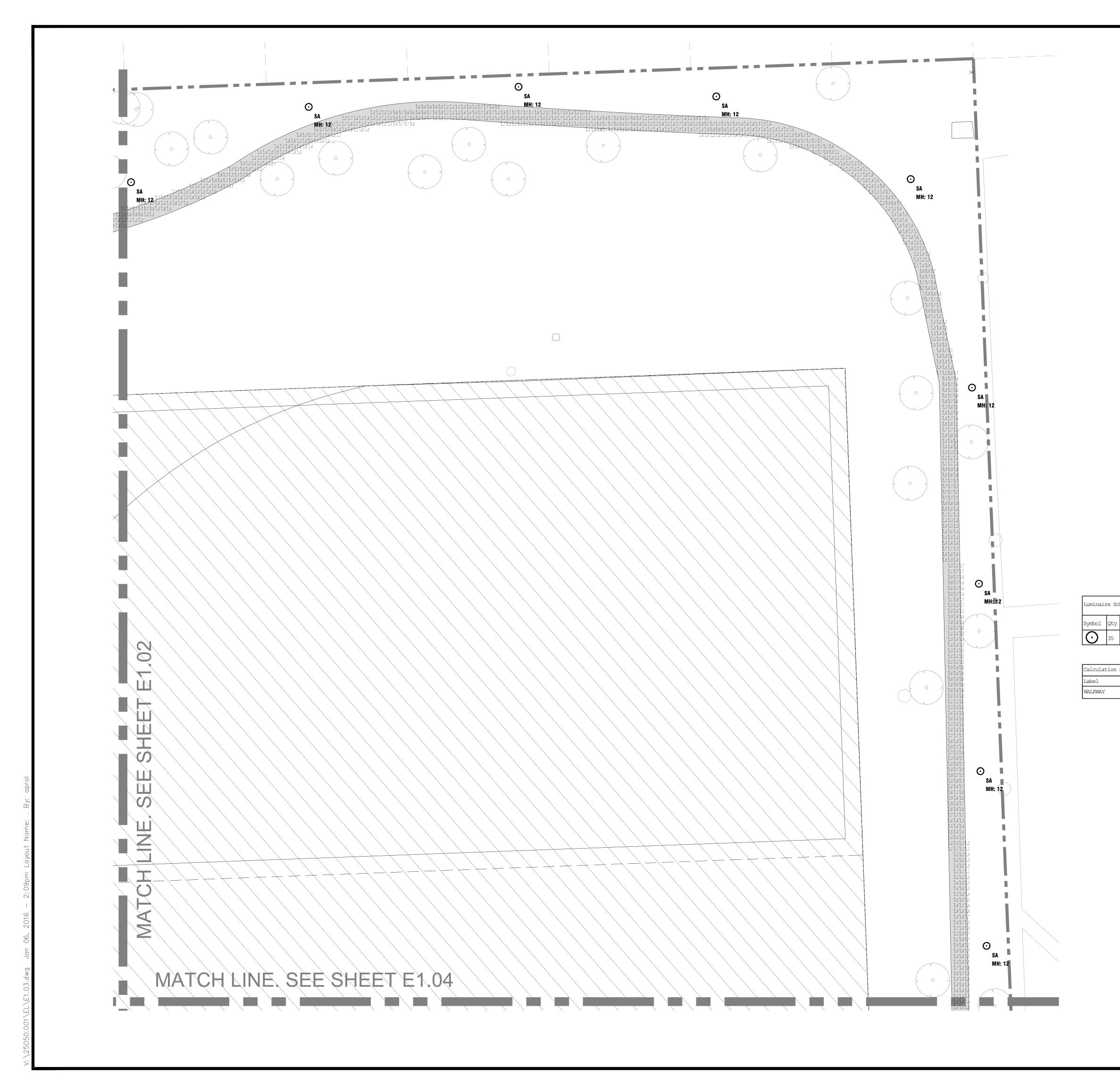
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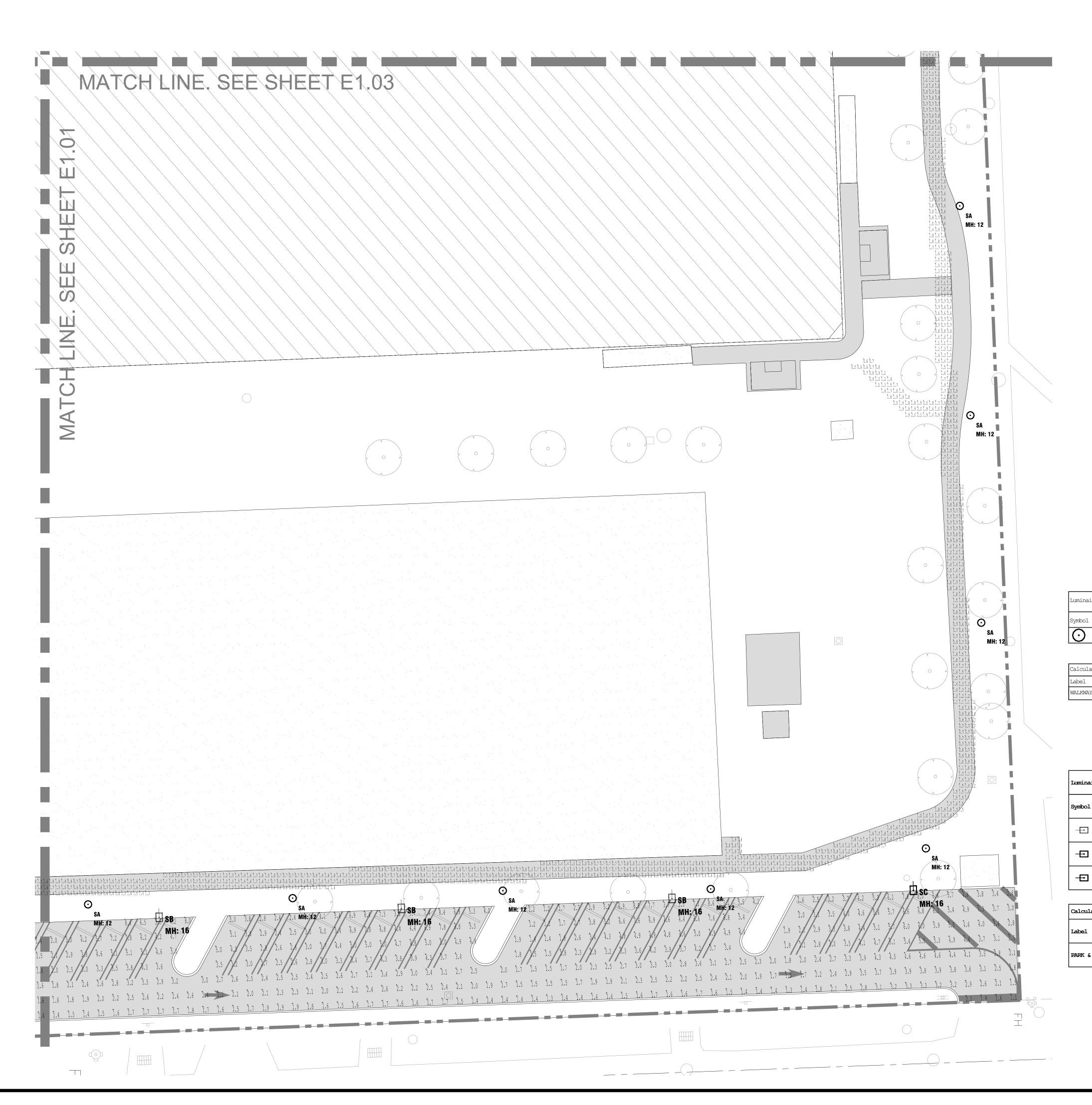
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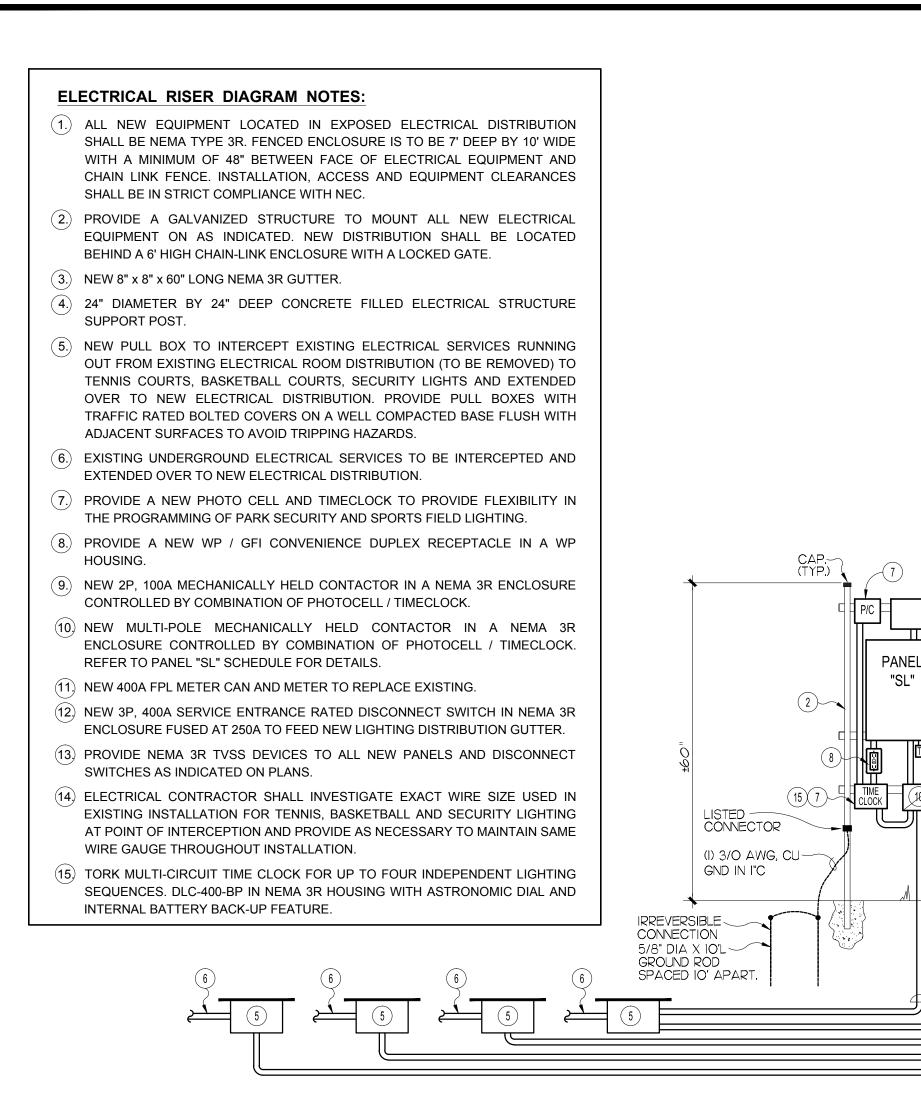


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0 4 8 16 SCALE 1/16"= 1'-0"	SUBCONSULTANT:
	PROJ. No. 25050.001 CA 924 LOUIS J. AGUIRRE & ASSOCIATES P.A. CONSULTING ENGINEERS 9150 SOUTH DADELAND BLVD. SUITE 900 MIAMI, FLORIDA 33156 TELEPHONE: (305) 670-0141 FAX: (305) 670-0144 www.ljaapa.com
	PROFESSIONAL SEAL:
	ELECTRICAL: MARIO D. PAZOS P.E. LICENSE # 52078
	PROJECT NUMBER: 09213010.43
	PROJECT NAME & ADDRESS:
	DOUGLAS PARK CORRECTIVE ACTION PLAN 2795 SW 37 AVE MIAMI, FL
	CLIENT NAME & ADDRESS:
WALKWAY ILLUMINATION SCHEDULE Schedule Schedule Sy Label Description Lumens /Lamp LLD BF LLF Watts Total Watts	CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM 444 SW 2ND AVENUE MIAMI, FLORIDA 33130
SA PHILIPS HADCO POLE MOUNT 12' A.F.G. N.A. 0.900 0.900 1.000 0.810 68.1 2383.5	REV DESCRIPTION DATE
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NOT FOR CONSTRUCTION NOT FOR CONSTRUCTION KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG It's fast. It's free. It's the law. www.callsunshine.com	DRAWING NUMBER: E1.03



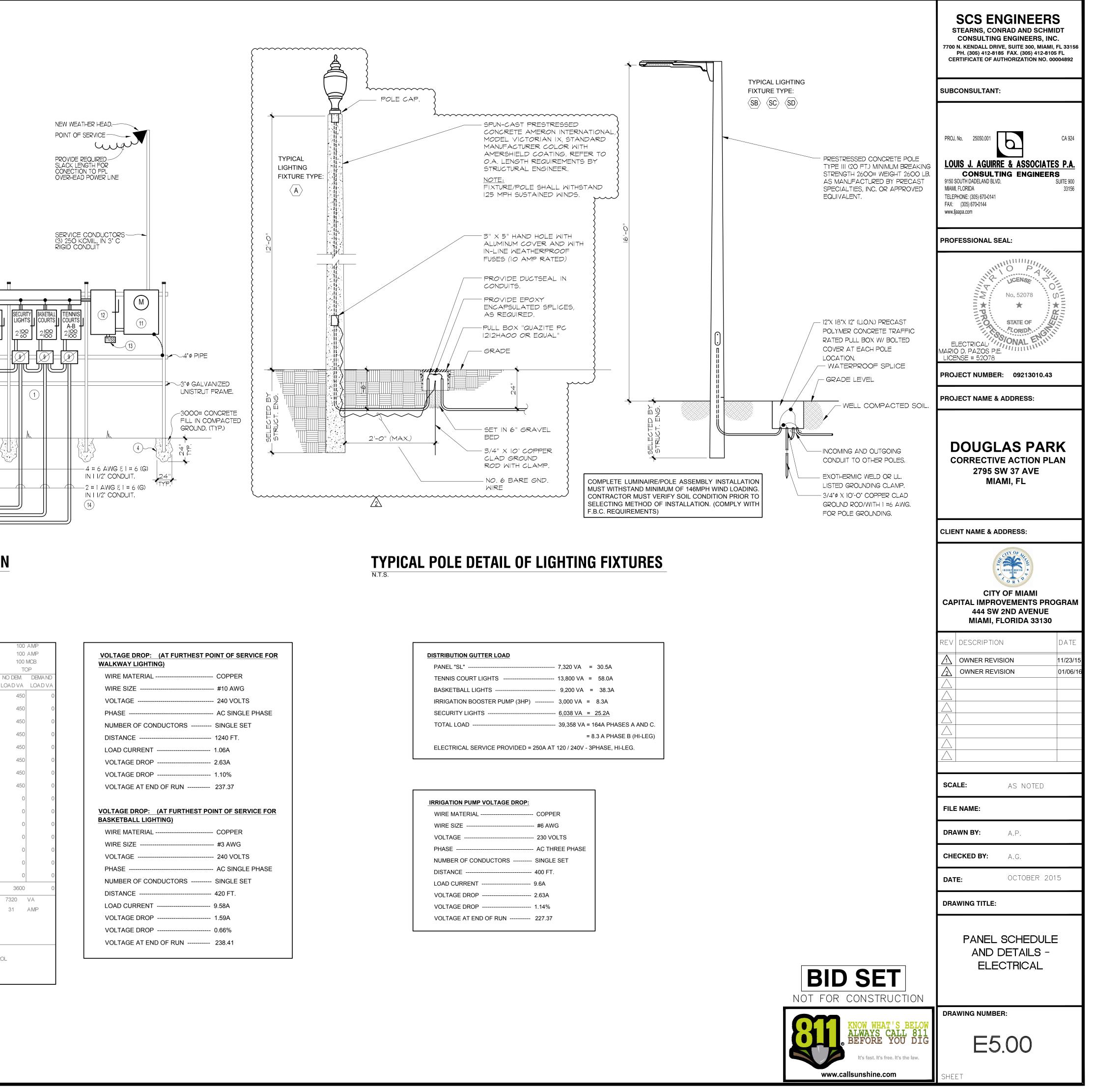
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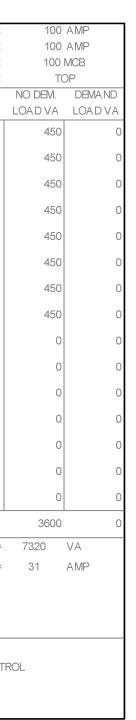


ELECTRICAL DISTRIBUTION ELEVATION N.T.S.

SQUARE D NEW PANEL "SL " MAIN BUS: SERVICE: 1PH, 3W, 60HZ NEUTRAL: VOLTAGE: 120 / 240 FULLY RATED EQUIPMENT SHORT CIRCUIT RATING: MAINS: MOUNTING: SURFACE NEWA 3R 22000 AMPS SYMMS. @ 240 V. (U.L. LISTED) LOCATION: DEVIAND NO DEM. CONDUIT WIRE TRIP POLES LOAD DESCRIPTION CKT PHASE CKT LOAD DESCRIPTION POLES TRIP WRE CONDUIT NO DEM. DEMANI LOADVA LOADVA SIZE AMP AND REVARKS NO. A B C NO. A ND REMARKS AMP SIZE 500 3/4 10 20 2- PARK LIGHTS 1 --*----- 2- WALKWAY LIGHTS -2 20 10 1-1/4 500 ------- 4 -| --*--|-- | 6-| WALKWAY LIGHTS 20 10 1-1/4 10 20 2- PARK LIGHTS 500 3/4 500 --|---*-- | 8 2- PARK LIGHTS 9 --*----- 10- WALKWAY LIGHTS 20 10 1-1/4 500 3/4 10 20 ---------*---500 20 10 1-1/4 360 3/4 12 20 1- GFI RECEPT -13 --*---|-- 14- WALKWAY LIGHTS 3/4 12 20 TC CONTROL -15 ----*-- 16-360 -17 --*---- 18- SPARE 20 SPARE 20 -----20 20 - SPARE -19 ----*-- 20------20 20 SPARE --*---|-- 22-- SPARE -23 ----*-- 24-20 20 SPACES 25 --*---- 26- SPACES ------ SPACES -----*-- 28- TVSS 30 10 3/4 SPA CES -29 --*---- 30-0 3720 = SUB - TOTALS SUB - TOTALS = 3600 PANELBOARD TOTAL LOAD = 7320 VA It = VOLTAMPERE/VOLT = 31 AMP 0 VA: DEMAND LOAD 7320 VA : NO DEVAND LOAD FEEDER: (4) 3 AWG (1) 4 AWG (G) IN 2" C 7320 VA : TOTAL LOAD 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 NEWA 1 ENCLOSURE TO BE CONTROLLED BY TC AND PC TO CONTROL WALKWAY LIGHTS AND PARKING LIGHTS. 3. SEQUENCE OF OEPRATION TO BE PROVIDED BASED ON CITY OF MIAMI PARKS CRITERIA



TVSS



/OLTAGE DROP: (AT FURTHE VALKWAY LIGHTING)	ST POINT OF SERVICE FO
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
· · · · ·	ST POINT OF SERVICE FO
OLTAGE DROP: (AT FURTHES	ST POINT OF SERVICE FO
· · · · ·	
ASKETBALL LIGHTING)	COPPER
ASKETBALL LIGHTING) WIRE MATERIAL	COPPER #3 AWG
ASKETBALL LIGHTING) WIRE MATERIAL	COPPER #3 AWG 240 VOLTS
ASKETBALL LIGHTING) WIRE MATERIAL WIRE SIZE VOLTAGE	COPPER #3 AWG 240 VOLTS AC SINGLE PHASE
ASKETBALL LIGHTING) WIRE MATERIAL WIRE SIZE VOLTAGE PHASE	COPPER #3 AWG 240 VOLTS AC SINGLE PHASE SINGLE SET
ASKETBALL LIGHTING) WIRE MATERIAL WIRE SIZE VOLTAGE PHASE NUMBER OF CONDUCTORS	COPPER #3 AWG 240 VOLTS AC SINGLE PHASE SINGLE SET 420 FT.
ASKETBALL LIGHTING) WIRE MATERIAL WIRE SIZE VOLTAGE PHASE NUMBER OF CONDUCTORS DISTANCE	COPPER #3 AWG 240 VOLTS AC SINGLE PHASE SINGLE SET 420 FT. 9.58A
ASKETBALL LIGHTING) WIRE MATERIAL WIRE SIZE VOLTAGE PHASE NUMBER OF CONDUCTORS DISTANCE LOAD CURRENT	COPPER #3 AWG 240 VOLTS AC SINGLE PHASE SINGLE SET 420 FT. 9.58A 1.59A

DISTRIBUTION GUTTER LOAD	
PANEL "SL"	7,320 VA
TENNIS COURT LIGHTS	13,800 VA :
BASKETBALL LIGHTS	9,200 VA
IRRIGATION BOOSTER PUMP (3HP)	3,000 VA =
SECURITY LIGHTS	<u>6,038 VA</u> =
TOTAL LOAD	39,358 VA =
	=
ELECTRICAL SERVICE PROVIDED = 250A	AT 120 / 240V - 3

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

GENERAL STRUCTURAL NOTES -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 ROLLERICOMPACTOR 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. REQUIREMENTS, THE CONTRACTOR IS STILL RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE CODES AND ORDINANCES OF -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 CLASIFICATION 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:..... FORMED CONCRETE IN CONTACT WITH THE GROUND:..... **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'-O" 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

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 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.

	DESIG	N LOAD	&						
DESIGN CODES	BUILDING CC	DES		FLORIDA BUILDING CODE (2014 EDITION) ASCE 7–10					
	CONCRETE	REMENTS FOR							
WIND	RISK CATEGORY								
	BASIC WIND SPI	EED (3 SECOND (GUST)	V = 175 M.P.H.					
	EXPOSURE CATE	GORY		"C"					
	DIRECTIONALITY	FACTOR		Kd = 0.85					
	TOPOGRAPHIC F	ACTOR		Kzt = 1.0					
GRAVITY	LOCATION	LIVE LOAD			SUPERIMPOS	SED DEAD LOAD			
		UNIFORM		CONCENTRATED	UNIFORM	CONCENTRATED			
	BLEACHER	120 PSF			30 PSF				
		REDUCTION HAS E REASE HAS BEEN		SED. DEAD LOAD IN	ADDITION TO	FLOOR SYSTEM LOADS.			

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 OFFICIALHAS 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 AASHTO 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. 4" & 5" SLABS:.. 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 DEVELOPMEN 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.

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.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 KEYED 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

