CONSTRUCTION PLANS FOR:



FIFTH THIRD BANK - COCONUT CREEK

4805 COCONUT CREEK PARKWAY COCONUT CREEK, FLORIDA 33063

PROJECT TEAM

PROPERTY OWNER/DEVELOPER: MD 10ATA1 CORP FAC 38 FOUNTAIN SQUARE PLZ CINCINNATI, OHIO 45202-3102 PH: (513) 579-5203

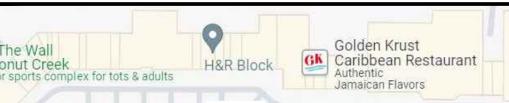
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GEOTECHNICAL:
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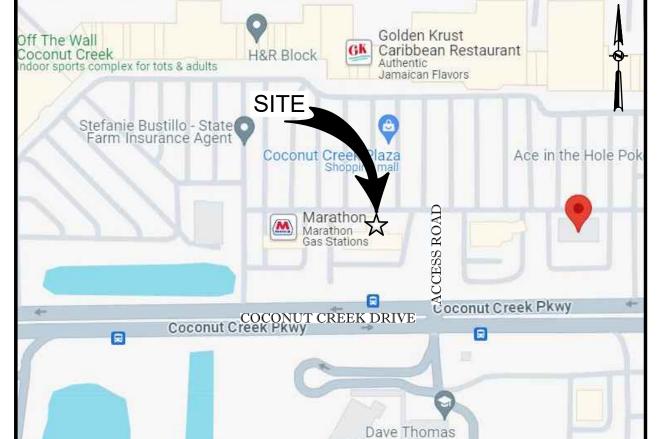
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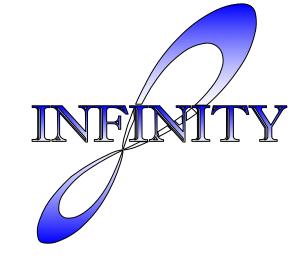


VICINITY MAP





PARCEL ID: 484230130015 BROWARD COUNTY, FLORIDA

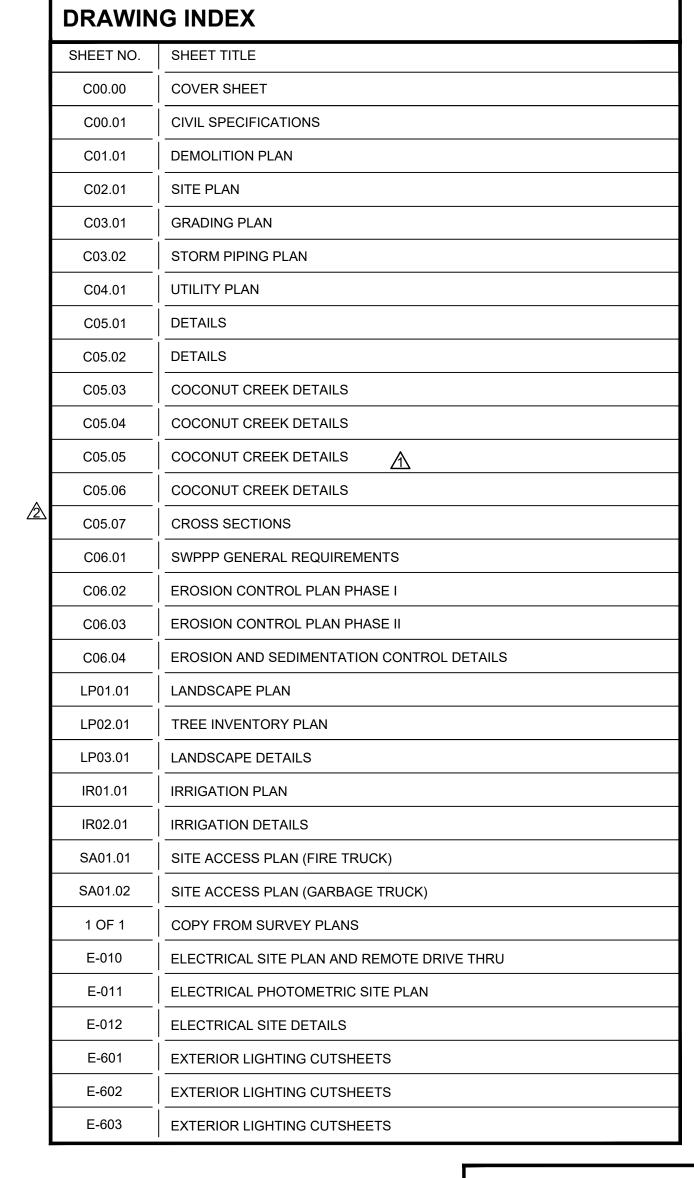


INFINITY ENGINEERING GROUP, LLC

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IEG JOB NO. 15-328.00





SHEET

C00.00



GENERAL NOTE

- ALL CONSTRUCTION SHALL BE EXECUTED AS SHOWN ON THESE PLANS. ANY REVISIONS AND/OR DEVIATIONS MUST BE APPROVED BY THE ENGINEER OF RECORD AND MAY RESULT IN ADDITIONAL PERMITTING EFFORTS THROUGH THE RELATED PERMITTING AGENCY. THE CONTRACTOR SHALL ACKNOWLEDGE THAT REVISIONS AND/OR DEVIATIONS MAY RESULT IN ADDITIONAL PERMITTING REQUIREMENTS AND POSSIBLY AFFECT SCHEDULING OF WORK
- UNLESS OTHERWISE NOTED ON PLANS, OR WITHIN THE PROJECT SPECIFICATIONS, ALL MATERIALS AND CONSTRUCTION ARE TO BE IN ACCORDANCE WITH DESIGN AND CONSTRUCTION STANDARDS OF THE PERMITTING AGENCY HAVING JURISDICTION; THE LOCALLY ADOPTED BUILDING CODE; AND ALL APPLICABLE LOCAL AND STATE CODES AND ORDINANCES.
- 3. PERMITS MAY BE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR IS TO ACKNOWLEDGE AND SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR WORK IN THE PUBLIC RIGHT-OF-WAY.
- THIS PARCEL OF LAND MAY BE SUBJECT TO ANY AND ALL RECORDED (AND POSSIBLY UNRECORDED) EASEMENTS, RESTRICTIONS, AND COVENANTS.
- 5. PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES FOR VERIFICATION OF UTILITIES WITHIN THE LIMITS OF CONSTRUCTION. CALL AREA ONE CALL SYSTEM 48 HOURS PRIOR TO ANY EXCAVATION.
- 6. THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER IN A TIMELY MANNER.
- 7. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING PERMANENT SURVEY MONUMENTS AND BENCHMARKS FROM DISTURBANCE. SURVEY MONUMENTS DISTURBED BY CONSTRUCTION ARE TO BE REPLACED AND ADJUSTED VIA A LAND SURVEYOR REGISTERED IN THE STATE FOR WHICH THE PROJECT IS LOCATED.
- 8. THE CONTRACTOR SHALL COORDINATE WORK EFFORTS WITH THE OWNER TO MINIMIZE TRAFFIC INTERFERENCE AND OPERATIONS OF THE FACILITIES.
- 9. NO BLASTING OR BURNING IS ALLOWED ON THE PROJECT, UNLESS OTHERWISE DIRECTED OR NOTED BY THE ENGINEER.
- 10. IT IS NOT EXPECTED THAT HAZARDOUS MATERIALS WILL BE ENCOUNTERED. HOWEVER IF MATERIALS SUSPECTED OF CONTAINING HAZARDOUS MATERIALS ARE ENCOUNTERED, DO NOT DISTURB; IMMEDIATELY NOTIFY ENGINEER AND OWNER. HAZARDOUS MATERIALS WILL BE REMOVED BY OWNER UNDER A SEPARATE CONTRACT.

REGULATORY STANDARDS AND REQUIREMENTS

- 1. COMPLY WITH HAULING AND DISPOSAL REGULATIONS OF AUTHORITIES HAVING JURISDICTION.
- 2. COMPLY WITH ANSI A10.6, "SAFETY REQUIREMENTS FOR CONSTRUCTION AND DEMOLITION.
- 3. COMPLY WITH NFPA 241, "SAFEGUARDING CONSTRUCTION, ALTERATION AND **DEMOLITION OPERATIONS."**

DEMOLITION AND CLEARING

- 1. DEMOLITION AND CLEARING OPERATIONS SHALL CONFORM TO APPLICABLE REGULATIONS RELATING TO ENVIRONMENTAL REQUIREMENTS DISPOSAL OF DEBRIS, BURNING OF DEBRIS ON SITE, AND USE OF HERBICIDES.
- 2. DEMOLITION WASTE SHALL BE DISPOSED OF IN A LEGAL MANNER. REMOVED DEMOLITION WASTE MATERIALS FROM PROJECT SITE AND DISPOSE OF WASTE IN AN EPA-APPROVED LANDFILL ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION. DO NOT BURY OR BURN DEMOLITION WASTE ON-SITE.
- HISTORIC ITEMS, RELICS, ANTIQUES, AND SIMILAR OBJECTS, INCLUDING, BUT NOT LIMITED TO CORNERSTONES AND THEIR CONTENTS, COMMEMORATIVE PLAQUES AND TABLETS, AND OTHER ITEMS OF INTEREST OF VALUE TO OWNER THAT MAY BE UNCOVERED DURING DEMOLITION REMAIN THE PROPERTY OF THE
- ARRANGE DEMOLITION SCHEDULE SO AS NOT TO INTERFERE WITH OWNER'S ON-SITE OPERATIONS OR OPERATIONS OF ADJACENT OCCUPIED BUILDINGS.
- 5. CONDUCT BUILDING DEMOLITION AND DEBRIS REMOVAL OPERATIONS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKWAYS, AND OTHER ADJACENT OCCUPIED AND USED FACILITIES. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, WALKWAYS, OR OTHER ADJACENT OCCUPIED OR USED FACILITIES WITHOUT PERMISSION FROM OWNER AND AUTHORITIES HAVING JURISDICTION
- 6. AUTHORITY FOR PERFORMING SITE CLEARING INDICATED ON PROPERTY ADJOINING OWNER'S PROPERTY MUST BE OBTAINED BY OWNER PRIOR TO COMMENCEMENT OF CLEARING. DO NOT PROCEED WITH WORK ON ADJOINING PROPERTY UNTIL DIRECTED BY ENGINEER.
- 7. PRIOR TO COMMENCEMENT OF DEMOLITION OPERATIONS: a. VERIFY THAT HAZARDOUS MATERIALS, IF PRESENT, HAVE BEEN REMEDIATED. b. REVIEW PROJECT RECORD DRAWINGS OF EXISTING BUILDING AND EXISTING
- SITE IMPROVEMENTS. c. INVENTORY AND RECORD THE CONDITION OF ITEMS TO BE REMOVED AND SALVAGED. TAKE DIGITAL PHOTOGRAPHS OR VIDEO OF PROJECT SITE AND SURROUNDING PROPERTIES, INCLUDING EXISTING ITEMS TO REMAIN DURING CONSTRUCTION OPERATIONS, RECORD CONDITIONS THAT MIGHT BE
- MISCONSTRUED AS DAMAGE CAUSED BY SALVAGE OPERATIONS. d. CLEAN, PACK, IDENTIFY, AND TRANSPORT SALVAGED ITEMS TO STORAGE
- AREA DESIGNATED BY OWNER. e. REMOVE REFRIGERANT FROM THE MECHANICAL EQUIPMENT ACCORDING TO 40 CFR 82 AND REGULATIONS OF AUTHORITIES HAVING JURISDICTION.
- f. COORDINATE ANY ADDITIONAL REQUIREMENTS FOR DEMOLISHING OR RELOCATING SITE MECHANICAL AND ELECTRICAL ITEMS WITH OWNER AND OTHER AUTHORITIES HAVING JURISDICTION.
- g. ASSURE THAT ANY REQUIRED INITIAL EROSION AND SEDIMENT CONTROL MEASURES ARE INSTALLED AND IN WORKING ORDER.
- h. LOCATE, IDENTIFY, DISCONNECT, AND SEAL OR CAP-OFF EXISTING UTILITIES SERVING BUILDINGS AND STRUCTURES TO BE DEMOLISHED. CUT AND REMOVE PIPE OR CONDUIT A MINIMUM OF 24 INCHES BELOW GRADE. CAP, VALVE, PLUG AND SEAL REMAINING PORTION OF PIPE OR CONDUIT. i. DO NOT START DEMOLITION WORK UNTIL UTILITY DISCONNECTION AND SEALING HAVE BEEN COMPLETED AND VERIFIED IN WRITING.
- 8. PRIOR TO COMMENCEMENT OF SITE CLEARING OPERATIONS, VERIFY THE FOLLOWING:
- a. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES ARE IN PLACE AND IN WORKING ORDER.
- b. UTILITY LOCATOR SERVICE HAS DETERMINED AND FLAGGED THE LOCATION OF UNDERGROUND UTILITIES.
- c. EXISTING SITE IMPROVEMENTS AND UTILITIES TO REMAIN HAVE BEEN
- PROTECTED.
- d. BENCHMARKS AND SURVEY CONTROL POINTS HAVE BEEN PROTECTED FROM DISTURBANCE.
- e. TREES AND VEGETATION TO REMAIN (OR TO BE RELOCATED) HAVE BEEN LOCATED AND CLEARLY FLAGGED IN ACCORDANCE WITH TREE PROTECTION AND TRIMMING REQUIREMENTS.
- 9. COORDINATE UTILITY DEMOLITION AND ABANDONMENT WITH UTILITY COMPANY OR AUTHORITY HAVING JURISDICTION.
- 10. IN THE EVENT BUILDINGS IMMEDIATELY ADJACENT TO THE DEMOLITION AREA WILL BE OCCUPIED, CONDUCT SITE DEMOLITION SO OPERATIONS OF OCCUPIED

- BUILDINGS WILL NOT BE DISRUPTED. MAINTAIN ACCESS TO AND FROM EXISTING WALKWAYS, EXITS, AND OTHER FACILITIES USED BY OCCUPANTS OF ADJACENT
- 11. PROTECT EXISTING FACILITIES AND ADJACENT WALKWAYS, LOADING DOCKS, BUILDING ENTRIES, AND OTHER BUILDING FACILITIES DURING DEMOLITION OPERATIONS. MAINTAIN EXITS FROM EXISTING BUILDINGS.
- 12. ERECT TEMPORARY PROTECTION, SUCH AS WALKS, FENCES, RAILINGS, CANOPIES, AND COVERED PASSAGEWAYS, AS NECESSARY, AND AS REQUIRED BY AUTHORITIES HAVING JURISDICTION. REMOVE TEMPORARY BARRIERS AND PROTECTIONS WHERE HAZARDS NO LONGER EXIST. WHERE OPEN EXCAVATIONS OR OTHER HAZARDOUS CONDITIONS REMAIN, LEAVE TEMPORARY BARRIERS AND PROTECTIONS IN PLACE.
- 13. PROTECT EXISTING UTILITIES FROM DAMAGE DURING DEMOLITION OPERATIONS. MAINTAIN OPERATION OF UTILITY SERVICES TO REMAIN. PROVIDE AT LEAST 72 HOURS' NOTICE TO OCCUPANTS OF AFFECTED BUILDINGS IF SHUTDOWN OF SERVICE IS REQUIRED.
- 14. IF REMOVAL, RELOCATION, OR ABANDONMENT OF UTILITY SERVICES WILL AFFECT ADJACENT OCCUPIED BUILDINGS, MAINTAIN CONTINUITY OF SERVICE TO ADJACENT BUILDINGS BY PROVIDING TEMPORARY UTILITIES THAT BYPASS BUILDINGS AND STRUCTURES TO BE DEMOLISHED. TEMPORARY BYPASS SERVICES SHALL BE PROVIDED IN ACCORDANCE WITH UTILITY COMPANY OR AUTHORITIES HAVING JURISDICTION.
- 15. TEMPORARY SHORING: PROVIDE AND MAINTAIN INTERIOR AND EXTERIOR SHORING, BRACING, OR STRUCTURAL SUPPORT TO PRESERVE STABILITY AND PREVENT UNEXPECTED MOVEMENT OR COLLAPSE OF EXISTING IMPROVEMENTS BEING DEMOLISHED. ALL SHORING OPERATIONS SHALL BE DESIGNED BY A LICENSED PROFESSIONAL AND INSTALLED PER OSHA REQUIREMENTS.
- 16. DEMOLITION OF STRUCTURAL FRAMING MEMBERS SHALL PROCEED SYSTEMATICALLY, FROM HIGHER TO LOWER LEVEL. COMPLETE BUILDING DEMOLITION OPERATIONS ABOVE EACH FLOOR OR TIER BEFORE DISTURBING SUPPORTING MEMBERS ON THE NEXT LOWER LEVEL. REMOVE DEBRIS FROM ELEVATED PORTIONS OF THE BUILDING BY CHUTE, HOIST, OR OTHER DEVICE THAT WILL CONVEY DEBRIS TO GRADE LEVEL IN A CONTROLLED DESCENT.
- CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF DUST, DIRT, AND DEBRIS CAUSED BY BUILDING DEMOLITION OPERATIONS. RETURN ADJACENT AREAS TO CONDITION EXISTING BEFORE BUILDING DEMOLITION OPERATIONS
- 18. CLEARING AND GRUBBING:
- a. REMOVE OBSTRUCTIONS, TREES, SHRUBS, GRASS, AND OTHER VEGETATION TO PERMIT INSTALLATION OF NEW CONSTRUCTION. DO NOT REMOVE TREES, SHRUBS, AND OTHER VEGETATION INDICATED TO REMAIN OR TO BE
- RELOCATED. b. CUT MINOR ROOTS AND BRANCHES OF TREES INDICATED TO REMAIN IN A CLEAN AND CAREFUL MANNER AND ONLY WHERE SUCH ROOTS AND BRANCHES OBSTRUCT INSTALLATION OF NEW CONSTRUCTION.
- c. CLEAR UNDERGROWTH AND DEADWOOD WITHOUT DISTURBING SUBSOIL. d. GRIND STUMPS AND REMOVE ROOTS, OBSTRUCTIONS, AND DEBRIS EXTENDING TO A DEPTH BELOW EXPOSED SUBGRADE AS FOLLOWS: • FOOTINGS, SLABS ON GRADE AND BOTTOM SLABS OF STRUCTURES: 36
- INCHES. ROADS AND PAVEMENT AREAS: 18 INCHES.

TO A DENSITY EQUAL TO ADJACENT ORIGINAL GROUND.

- AREAS TO BE GRASSED OR LANDSCAPED: 8 INCHES. AREAS TO BE FILLED: 12 INCHES.
- e. USE ONLY HAND METHODS FOR GRUBBING WITHIN TREE PROTECTION ZONES.
- f. CHIP REMOVED TREE BRANCHES AND DISPOSE OF OFF-SITE. UNLESS FURTHER EXCAVATION OF EARTHWORK IS INDICATED. FILL DEPRESSIONS CAUSED BY CLEARING AND GRUBBING OPERATIONS WITH SATISFACTORY SOIL MATERIAL. PLACE FILL MATERIAL IN HORIZONTAL LAYERS

NOT EXCEEDING A LOOSE DEPTH OF 8 INCHES, AND COMPACT EACH LAYER

- a. REMOVE SOD AND GRASS BEFORE STRIPPING TOPSOIL b. STRIP TOPSOIL TO WHATEVER DEPTHS ARE ENCOUNTERED IN A MANNER TO PREVENT INTERMINGLING WITH UNDERLYING SUBSOIL OR OTHER WASTE MATERIALS. REMOVE SUBSOIL AND NON-SOIL MATERIALS FROM TOPSOIL.
- INCLUDING TRASH, DEBRIS, WEEDS, ROOTS, AND OTHER WASTE MATERIALS. c. STOCKPILE TOPSOIL MATERIALS AWAY FROM EDGE OF EXCAVATIONS WITHOUT INTERMIXING WITH SUBSOIL. GRADE AND SHAPE STOCKPILES TO DRAIN SURFACE WATER. COVER TO PREVENT WINDBLOWN DUST. LIMIT HEIGHT OF TOPSOIL STOCKPILES TO 72 INCHES. DO NOT STOCKPILE TOPSOIL WITHIN TREE PROTECTION ZONES. STOCKPILE SURPLUS TOPSOIL TO ALLOW FOR RESPREADING DEEPER TOPSOIL.
- 20 SITE IMPROVEMENTS:
- a. REMOVE EXISTING ABOVE- AND BELOW-GRADE IMPROVEMENTS AS INDICATED AND AS NECESSARY TO FACILITATE NEW CONSTRUCTION. REMOVE SLABS,
- PAVING, CURBS, GUTTERS, AND AGGREGATE BASE AS INDICATED. b. UNLESS EXISTING FULL-DEPTH JOINTS COINCIDE WITH LINE OF DEMOLITION, NEATLY SAW-CUT LENGTH OF EXISTING PAVEMENT TO REMAIN BEFORE
- REMOVING EXISTING PAVEMENT. SAWCUT ALL FACES VERTICALLY. c. PAINT CUT ENDS OF STEEL REINFORCEMENT IN CONCRETE TO REMAIN TO PREVENT CORROSION

FACILITIES.

- a. REMOVE SURPLUS SOIL MATERIAL, UNSUITABLE TOPSOIL, OBSTRUCTIONS, DEMOLISHED MATERIALS, AND WASTE MATERIALS, INCLUDING TRASH AND
- DEBRIS, AND LEGALLY DISPOSE OF THEM OFF OWNER'S PROPERTY. b. REMOVE AND TRANSPORT DEBRIS AND RUBBISH IN A MANNER THAT WILL PREVENT SPILLAGE ON STREETS OR ADJACENT AREAS. CLEAN UP SPILLAGE
- FROM STREETS AND ADJACENT AREAS. c. COMPLY WITH FEDERAL, STATE AND LOCAL HAULING AND DISPOSAL
- REGULATIONS d. SEPARATE RECYCLABLE MATERIALS PRODUCED DURING SITE CLEARING FROM OTHER NON-RECYCLABLE STORE OR STOCKPILE WITHOUT INTERMIXING WITH OTHER MATERIALS AND TRANSPORT THEM TO RECYCLING

TREE PROTECTION AND TRIMMING

- INSTALL TEMPORARY FENCING AROUND TREE PROTECTION ZONES TO PROTECT TREES AND VEGETATION DESIGNATED TO REMAIN FROM CONSTRUCTION DAMAGE. MAINTAIN TEMPORARY FENCING AROUND TREE PROTECTION ZONES. AND REMOVE WHEN CONSTRUCTION IS COMPLETE.
- 2. KEEP TREE PROTECTION ZONES FREE OF WEEDS AND TRASH.
- 3. DO NOT STORE CONSTRUCTION MATERIALS, DEBRIS, OR EXCAVATED MATERIAL INSIDE TREE PROTECTION ZONE; OR PERMIT VEHICLES OR FOOT TRAFFIC WITHIN TREE PROTECTION ZONE, OR ALLOW FIRES WITHIN TREE PROTECTION
- 4. PROTECT TREE ROOT SYSTEMS FROM THE FOLLOWING:
- a. DAMAGE CAUSED BY RUNOFF OR SPILLAGE OF NOXIOUS MATERIALS WHILE MIXING, PLACING, OR STORING CONSTRUCTION MATERIALS; b. DAMAGE CAUSED BY PONDING, ERODING, OR EXCESSIVE WETTING FROM DEWATERING OPERATIONS.
- UNLESS OTHERWISE INDICATED, DO NOT EXCAVATE WITHIN TREE PROTECTION ZONES. WHERE EXCAVATION FOR NEW CONSTRUCTION IS UNAVOIDABLE, HAND CLEAR AND EXCAVATE TO MINIMIZE DAMAGE TO ROOT SYSTEMS.
- 6. WHERE UTILITY TRENCHES ARE UNAVOIDABLE WITHIN TREE PROTECTION ZONES, TUNNEL UNDER OR AROUND ROOTS BY DRILLING, AUGER BORING, PIPE JACKING, OR DIGGING BY HAND. DO NOT CUT MAIN LATERAL ROOTS OR TAPROOTS.
- PROMPTLY REPAIR TREES DAMAGED BY CONSTRUCTION OPERATIONS WITHIN 24 HOURS. TREAT DAMAGED TRUNKS, LIMBS, AND ROOTS ACCORDING TO

ARBORIST'S WRITTEN INSTRUCTIONS

TREE PRUNING: PRUNE TREES ACCORDING TO ANSI A300 (PART 1), 'TREE, SHRUB, AND OTHER WOODY PLANT MAINTENANCE - STANDARD PRACTICES

EROSION AND SEDIMENTATION

- PRIOR TO COMMENCEMENT OF ANY CLEARING AND EXCAVATION WITHIN A WORK AREA, ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AND IN WORKING ORDER
- PERFORM WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE STATE AND FIELD QUALITY CONTROL: FEDERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING EROSION AND SEDIMENT CONTROL FEATURES TO PREVENT AND CONTROL SEDIMENT-LADEN RUNOFF FROM LEAVING THE CONSTRUCTION AREAS AND ENTERING EXISTING STORMWATER FACILITIES AND SURFACE WATERS. ADDITIONAL MEASURES BEYOND THOSE SHOWN WITHIN THESE PLANS MAY BE NECESSARY DURING CONSTRUCTION, INCLUDING TEMPORARY VEGETATIVE MEASURES AND INSTALLATION OF OTHER SILT TRAPPING MEASURES.
- THE CONTRACTOR IS REQUIRED TO ADJUST THE EROSION AND SEDIMENT CONTROLS AS NECESSARY AND AS SHOWN ON THE DRAWINGS: AND ADD ADDITIONAL CONTROL MEASURES AS REQUIRED TO INSURE THE SITE MEETS ALL FEDERAL, STATE AND LOCAL EROSION AND SEDIMENT CONTROL
- ALL BEST MANAGEMENT EROSION AND SEDIMENT CONTROL PRACTICES WILL BE INSPECTED BY THE SUPERINTENDENT. THE PERSON RESPONSIBLE FOR THE DAY TO DAY OPERATIONS; OR SOMEONE APPOINTED BY THE SUPERINTENDENT, AT LEAST EVERY OTHER WEEK AND FOLLOWING A STORM EVENT OF 0.5 INCHES OR GREATER.
- ALL BEST MANAGEMENT CONTROL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT.

EARTHWORK

- IN THE EVENT OF ANY UNFORESEEN CONDITIONS THAT ARE ENCOUNTERED AND NOT COVERED BY THESE NOTES DURING GRADING OPERATIONS, THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTION.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL NECESSARY CUTS AND FILLS WITHIN THE LIMITS OF THIS PROJECT AND RELATED OFF-SITE WORK SO AS TO ESTABLISH THE DESIRED SUBGRADE, FINISH GRADES AND SLOPES SPECIFIED WITHIN THE PLANS.
- ADEQUATE SHORING IS TO BE DESIGNED AND PROVIDED BY THE CONTRACTOR TO PREVENT UNDERMINING OF ANY ADJACENT FEATURES OR FACILITIES AND/OR CAVING OF THE EXCAVATION. ALL SHORING AND ASSOCIATED TEMPORARY STRUCTURES SHALL BE DESIGNED BY A LICENSED PROFESSIONAL AND INSTALLED PURSUANT TO OSHA REQUIREMENTS.

- 1. UNSATISFACTORY SOILS CONSIST OF SOIL CLASSIFICATION GROUPS ML, OL, CH, MH. OH. AND PT. OR A COMBINATION OF THESE GROUPS. UNSATISFACTORY SOILS ALSO INCLUDE SATISFACTORY SOILS NOT MAINTAINED WITHIN 3 PERCENT OF OPTIMUM MOISTURE CONTENT AT TIME OF COMPACTION.
- SATISFACTORY SOILS: ASTM D 2487 SOIL CLASSIFICATION GROUPS AS IDENTIFIED ON THE DRAWINGS, OR A COMBINATION OF THESE GROUPS; FREE OF ROCK OR GRAVEL LARGER THAN 3 INCHES IN ANY DIMENSION. DEBRIS WASTE, FROZEN MATERIALS, VEGETATION, AND OTHER DELETERIOUS MATERIAL.

- PROOF-ROLL SUBGRADE BELOW THE BUILDING SLABS AND PAVEMENTS WITH HEAVY PNEUMATIC-TIRED EQUIPMENT TO IDENTIFY SOFT POCKETS AND AREAS OF EXCESS YIELDING. DO NOT PROOF-ROLL WET OR SATURATED SUBGRADES. a. COMPLETELY PROOF-ROLL SUBGRADE IN TWO DIRECTIONS, REPEATING PROOF ROLLING IN DIRECTION PERPENDICULAR TO FIRST DIRECTION. LIMIT
- VEHICLE SPEED TO 3 MPH, b. PROOF-ROLL WITH A LOADED 10-WHEEL, TANDEM-AXLE DUMP TRUCK WEIGHING NOT LESS THAN 15 TONS.
- c. EXCAVATE SOFT SPOTS, UNSATISFACTORY SOILS. AND AREAS OF EXCESSIVE PUMPING OR RUTTING, AS DETERMINED BY ENGINEER AND REPLACE WITH COMPACTED BACKFILL OR FILL AS DIRECTED.
- RECONSTRUCT SUBGRADES DAMAGED BY FREEZING TEMPERATURES, FROST, RAIN, ACCUMULATED WATER, OR CONSTRUCTION ACTIVITIES AS DIRECTED BY ENGINEER, WITHOUT ADDITIONAL COMPENSATION.

- THE CONTRACTOR SHALL PLACE AND COMPACT BACKFILL IN EXCAVATIONS PROMPTLY, BUT NOT BEFORE COMPLETING THE FOLLOWING: a. CONSTRUCTION BELOW FINISH GRADE INCLUDING, WHERE APPLICABLE, SUBDRAINAGE, DAMP PROOFING, WATERPROOFING, AND PERIMETER
- b. SURVEYING LOCATIONS OF UNDERGROUND UTILITIES FOR RECORD
- DRAWINGS c. TESTING AND INSPECTING UNDERGROUND UTILITIES.
- d. REMOVING CONCRETE FORMWORK
- e. REMOVING TRASH AND DEBRIS. f. REMOVING TEMPORARY SHORING AND BRACING, AND SHEETING.
- g. INSTALLING PERMANENT OR TEMPORARY HORIZONTAL BRACING ON HORIZONTALLY SUPPORTED WALLS.

COMPACTION OF SOIL BACKFILLS AND FILLS:

- CONTRACTOR SHALL PLACE BACKFILL AND FILL MATERIALS IN LAYERS NOT MORE THAN 8-INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HEAVY COMPACTION EQUIPMENT, AND NOT MORE THAN 4-INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HAND-OPERATED TAMPERS.
- 2. PLACE BACKFILL AND FILL SOIL MATERIALS EVENLY ON ALL SIDES OF STRUCTURES TO REQUIRED ELEVATIONS, AND UNIFORMLY ALONG THE FULL LENGTH OF EACH STRUCTURE.
- COMPACT SOIL MATERIALS TO NOT LESS THAN THE PLAN SPECIFIED PERCENTAGES OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D 698 OR ASTM D 1557. (SEE CIVIL DETAILS FOR SUMMARY OF TRENCH BACKFILL AND BEDDING MATERIALS AND PLACEMENT SPECIFICATIONS).

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

b. WALKS: PLUS OR MINUS ONE (1) INCH.

c. PAVEMENTS: PLUS OR MINUS ONE-HALF (1/2) INCH. d. GRADING INSIDE BUILDING LINES: FINISH SUBGRADE TO A TOLERANCE OF ONE-HALF (1/2) INCH WHEN TESTED WITH A 10-FOOT STRAIGHTEDGE.

SUBBASE AND BASE COURSES:

- a. PLACE SUBBASE AND BASE COURSE ON SUBGRADES FREE OF MUD, FROST, SNOW, OR ICE.
- b. PLACE SUBBASE AND BASE COURSE 6 INCHES OR LESS IN COMPACTED
- THICKNESS IN A SINGLE LAYER. c. PLACE SUBBASE AND BASE COURSE EXCEEDING 6 INCHES IN COMPACTED
- THICKNESS IN LAYERS OF EQUAL THICKNESS, WITH NO COMPACTED LAYER MORE THAN 6 INCHES THICK OR LESS THAN 3 INCHES.
- COMPACT SUBBASE AND BASE COURSE AT OPTIMUM MOISTURE CONTENT TO REQUIRED GRADES, LINES. CROSS SECTIONS. AND THICKNESS ACCORDING TO ASTM D 698 OR ASTM D 1557, AS INDICATED ON THE DRAWING DETAILS.

- THE TESTING AGENCY WILL INSPECT AND TEST SUBGRADES AND EACH FILL OR BACKFILL LAYER. CONTRACTOR SHALL PROCEED WITH SUBSEQUENT EARTHWORK ONLY AFTER TEST RESULTS FOR PREVIOUSLY COMPLETED WORK COMPLY WITH REQUIREMENTS.
- FOOTING SUBGRADE: AT FOOTING SUBGRADES, AT LEAST ONE TEST OF EACH SOIL STRATUM WILL BE PERFORMED TO VERIFY DESIGN BEARING CAPACITIES SUBSEQUENT VERIFICATION AND APPROVAL OF OTHER FOOTING SUBGRADES MAY BE BASED ON A VISUAL COMPARISON OF SUBGRADE WITH TESTED SUBGRADE WHEN APPROVED BY ENGINEER.
- THE TESTING AGENCY WILL TEST COMPACTION OF SOILS IN PLACE ACCORDING TO ASTM D 1556, ASTM D 2167, ASTM D 2922, AND ASTM D 2937, AS APPLICABLE. TESTS WILL BE PERFORMED AT THE FOLLOWING LOCATIONS AND FREQUENCIES: a. PAVED AND BUILDING SLAB AREAS: AT SUBGRADE AT EACH COMPACTED FILL AND BACKFILL LAYER, AT LEAST 1 TEST FOR EVERY 10,000 SQ. FT. OR LESS OF PAVED AREA OR BUILDING SLAB, BUT IN NO CASE FEWER THAN 3 TESTS.

b. FOUNDATION WALL BACKFILL: AT EACH COMPACTED BACKFILL LAYER, AT

c. TRENCH BACKFILL: AT EACH COMPACTED INITIAL AND FINAL BACKFILL LAYER, AT LEAST 1 TEST FOR EACH 150 FEET OR LESS OF TRENCH LENGTH, BUT NO FEWER THAN 2 TESTS.

LEAST 1 TEST FOR EACH 100 FEET OR LESS OF WALL LENGTH, BUT NO FEWER

- IF THE TESTING AGENCY REPORTS THAT SUBGRADES, FILLS, OR BACKFILLS HAVE NOT ACHIEVED DEGREE OF COMPACTION SPECIFIED, SCARIFY AND MOISTEN OR AERATE, OR REMOVE AND REPLACE SOIL TO DEPTH REQUIRED: RECOMPACT AND RETEST UNTIL SPECIFIED COMPACTION IS OBTAINED.
- ALL FIELD QUALITY CONTROL TESTS THAT FAIL TO MEET THE SPECIFIED COMPACTION DENSITY SHALL BE REPORTED TO THE ENGINEER.

GENERAL UTILITY NOTES

EXCAVATION.

- PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES FOR VERIFICATION OF UTILITIES WITHIN THE LIMITS OF CONSTRUCTION. CALL THE AREA ONE CALL SYSTEM 48 HOURS PRIOR TO ANY
- THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER.
- THE CONTRACTOR SHALL COORDINATE WORK EFFORTS WITH THE OWNER TO MINIMIZE TRAFFIC INTERFERENCE AND OPERATIONS OF THE FACILITIES.
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING PERMANENT SURVEYING MONUMENTS AND BENCHMARKS FROM DISTURBANCE. SURVEY MONUMENTS DISTURBED BY CONSTRUCTION ARE TO BE REPLACED AND ADJUSTED VIA A LAND SURVEYOR REGISTERED IN THE STATE FOR WHICH THE PROJECT IS LOCATED.
- EXISTING UTILITIES SHOWN HEREIN ARE BASED ON AVAILABLE RECORDS AND FIELD INVESTIGATIONS. THE CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF UTILITIES PRIOR TO EXCAVATION WITHIN WORK AREAS. THE ENGINEER SHALL BE NOTIFIED UPON DISCOVERY OF ANY DISCREPANCIES THAT WILL AFFECT INSTALLATION OF WORK OR DISCOVERY OF JNCHARTED UTILITIES WHICH MAY REQUIRE RELOCATION. NOTIFICATION SHALL BE DONE IN A TIMELY MANNER.
- WHERE APPLICABLE, THE CONTRACTOR SHALL MAINTAIN ALL FENCING, SIGNS, DETOURS, FLAGMEN, SIGNALS, ETC., FOR ANY OPEN TRENCHES, HOLES OR PITS. ALL TRENCHES, HOLES OR PITS SHALL BE CLOSED OR PROTECTED BY BARRICADES AT THE END OF THE DAY.
- CONTRACTOR IS TO ACKNOWLEDGE AND SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR WORK WITHIN PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS DURING
- INSTALLED. SEE "AS-BUILT" REQUIREMENTS FOR ADDITIONAL INFORMATION. 9. ALL VALVE BOXES, METER BOXES, VAULTS, CLEANOUTS, HOLE COVERS, FIRE HYDRANTS AND OTHER APPURTENANCES THAT ARE TO REMAIN IN SERVICE WITHIN THE PROJECT AREA SHALL BE ADJUSTED TO CONFORM TO FINISHED

CONSTRUCTION WHICH SHOW THE CONSTRUCTED CONDITIONS OF ALL WORK

- ALL UNDERGROUND UTILITIES MUST BE IN PLACE, TESTED AND INSPECTED AS
- REQUIRED PRIOR TO BASE AND SURFACE CONSTRUCTION. 11. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES TO DISCONNECT OR REMOVE THEIR FACILITIES PRIOR TO REMOVING OR
- DEMOLISHING ANY EXISTING STRUCTURES FROM THE SITE. ALL UTILITIES INCLUDING, BUT NOT NECESSARILY LIMITED TO, THE FOLLOWING SHOULD BE CONTACTED BY THE CONTRACTOR:
- GAS
- TELEPHONE CABLE
- POWER
- CITY/COUNTY WATER AND SEWER CITY/COUNTY/STATE TRAFFIC SIGNAL UTILITY (FIBER, HARDWIRE TRAFFIC SIGNAL INTERCONNECT)
- 13. THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THE PLANS HAVE BEEN DETERMINED THE ENGINEER ASSUMES NO RESPONSIBILITY FOR FROM THE BEST INFORMATION AVAILABLE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE VARIOUS ACCURACY. UTILITIES AND TO MAKE THE NECESSARY ARRANGEMENTS FOR ANY RELOCATIONS UTILITIES WITH THE OWNER OF THE UTILITY. THE CONTRACTOR SHALL EXERCISE OF THESE CAUTION WHEN CROSSING ANY UNDERGROUND UTILITY, WHETHER SHOWN ON THE PLANS OR LOCATED BY THE UTILITY COMPANY. ALL UTILITIES WHICH INTERFACE WITH THE PROPOSED CONSTRUCTION SHALL BE RELOCATED BY THE RESPECTIVE UTILITY COMPANIES AND THE CONTRACTOR SHALL COOPERATE WITH THE UTILITY COMPANIES DURING RELOCATION OPERATIONS. ANY DELAY OR INCONVENIENCE CAUSED TO THE CONTRACTOR BY THE VARIOUS UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED.
- 14. COLOR CODE FOR MARKING UNDERGROUND UTILITY LINES

WHITE - PROPOSED EXCAVACTION. PINK - TEMPORARY SURVEY MARKINGS. RED - ELECTRIC POWER LINES, CABLES, CONDUIT AND LIGHTING CABLES. YELLOW - GAS, OIL, STEAM, PETROLEUM, OR GASEOUS MATERIALS. ORANGE - COMMUNICATION, ALARM OR SIGNAL LINES, CABLES OR CONDUIT BLUE - POTABLE WATER. PURPLE - RECLAIMED WATER, IRRIGATION AND SLURRY LINES. GREEN - SEWERS AND DRAIN LINES.

WATER SYSTEM NOTES

- A VERTICAL CLEARANCE OF 18 INCHES SHALL BE MAINTAINED BETWEEN SANITARY SEWERS AND WATER MAINS. IF CLEARANCE CANNOT BE ACHIEVED BY ADJUSTING WATER MAINS THE SANITARY SEWER SHALL BE CONSTRUCTED PER SANITARY NOTE No. 1 BELOW.
- A HORIZONTAL SEPARATION OF 10 FEET SHALL BE MAINTAINED BETWEEN WATER MAINS AND SANITARY SEWER
- ALL WATER MAINS SHALL HAVE A MINIMUM OF 36 INCHES OF COVER.
- ALL WATER SYSTEM WORK SHALL CONFORM WITH LOCAL REGULATORY STANDARDS AND SPECIFICATIONS.
- CONFLICTS BETWEEN WATER AND STORM OR SANITARY SEWER TO BE RESOLVED BY ADJUSTING THE WATER LINES AS NECESSARY.
- ALL BURIED DUCTILE IRON PIPE SHALL BE CLASS 53 IN ACCORDANCE WITH ANSI A 21.50 (AWWA C150) AND ANSI A 21.51 (AWWA C151) AND PIPE SHALL RECEIVE EXTERIOR BITUMINOUS COATING IN ACCORDANCE WITH ANSI A 21.6, A 21.8 OR A 21.51 AND SHALL BE MORTAR LINED, STANDARD THICKNESS, AND BITUMINOUS SEALED IN ACCORDANCE WITH ANSI A (AWWA C 104-71).
- ALL BURIED FITTINGS LARGER THAN 2" SHALL BE DUCTILE IRON CLASS 53 IN ACCORDANCE WITH AWWA C-110 WITH A PRESSURE RATING OF 350 PSI. JOINTS SHALL BE MECHANICAL JOINTS IN ACCORDANCE WITH AWWA C-111. FITTINGS SHALL BE CEMENT MORTAR LINED AND COATED IN ACCORDANCE WITH AWWA
- CONTRACTOR TO INSTALL TEMPORARY BLOW-OFFS AT THE END OF WATER
- SERVICE LATERALS TO ASSURE ADEQUATE FLUSHING AND DISINFECTION. THRUST BLOCKING AND/OR RESTRAINED JOINTS SHALL BE PROVIDED AT ALL FITTINGS AND HYDRANTS IN ACCORDANCE WITH AWWA STANDARDS.
- ALL PVC WATER MAINS 4" THROUGH 12" SHALL BE IN ACCORDANCE WITH AWWA C-900. PIPE SHALL BE CLASS 150 AND MEET THE REQUIREMENTS OF SDR 18 IN
- ACCORDANCE WITH ASTM D-2241, AND COLOR CODED BLUE. 11. ALL FITTINGS 3" AND SMALLER SHALL BE CLASS 160 PVC WITH SOLVENT WELDED SLEEVE TYPE JOINTS.
- 12. ALL WATER MAINS AND WATER SERVICES TO BE INSTALLED UNDER ROAD UNDERDRAIN SHALL MAINTAIN 18" SEPARATION. 13. MATERIALS AND CONSTRUCTION METHODS FOR WATER DISTRIBUTION SYSTEM SHALL BE IN ACCORDANCE WITH THE LOCAL REGULATORY AGENCY CODES. PLANS, AND SPECIFICATIONS FOR CONSTRUCTION, LATEST REVISION THEREOF
- PUBLIC UTILITIES. ALL COMPONENTS OF THE WATER SYSTEM, INCLUDING FITTINGS, HYDRANTS, CONNECTIONS, AND VALVES SHALL REMAIN UNCOVERED UNTIL PROPERLY PRESSURE TESTED AND ACCEPTED BY THE OWNER'S ENGINEER. PRESSURE TESTS TO BE IN ACCORDANCE WITH WATER DEPARTMENT AND AWWA SPECIFICATIONS. CONTRACTOR TO NOTIFY OWNER'S ENGINEER AND WATER

COORDINATED THROUGH THE LOCAL REGULATORY AGENCY DEPARTMENT OF

CONTRACTOR TO PERFORM CHLORINATION AND BACTERIOLOGICAL SAMPLING REQUIRED TO OBTAIN CLEARANCE OF DOMESTIC WATER SYSTEM THROUGH LOCAL REGULATORY AGENCIES. COPIES OF ALL BACTERIOLOGICAL TESTS TO BE SUBMITTED TO OWNER'S ENGINEER.

DEPARTMENT INSPECTORS 48 HOURS IN ADVANCE OF PERFORMING TESTS.

SANITARY SEWER NOTES

- A HORIZONTAL SEPARATION OF 10 FEET SHALL BE MAINTAINED BETWEEN WATER MAINS AND SANITARY SEWER.
- ALL SANITARY SEWER MAINS & SERVICE LATERALS SHALL BE CONSTRUCTED OF POLYVINYL CHLORIDE PIPE, SDR 26 AND COLOR CODED GREEN.
- ALL SANITARY SEWER WORK SHALL CONFORM WITH LOCAL REGULATORY STANDARDS AND SPECIFICATIONS. PRIOR TO COMMENCING WORK WHICH REQUIRES CONNECTING NEW WORK TO
- LOCATION AND ELEVATION OF EXISTING CONNECTION POINT AND NOTIFY OWNER'S ENGINEER OF ANY CONFLICTS OR DISCREPANCIES. PVC PIPE AND FITTINGS SHALL CONFORM WITH A.S.T.M. SPECIFICATIONS PERMITS MAY BE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY. THE 5. DESIGNATION D-3034-77C, MA SDR 26. INSTALLATION OF SDR PIPE SHALL BE IN

STRICT ACCORDANCE WITH THE REQUIREMENTS OF A.S.T.M. SPECIFICATION

DESIGNATION D2321. ALL SANITARY SEWER PIPELINES SHALL BE SOLID GREEN IN

WIDE, PLACED 24" BELOW THE PROPOSED GRADE. THE PRINT ON THE MAGNETIC

EXISTING LINES OR APPURTENANCES, THE CONTRACTOR SHALL VERIFY

- ALL PVC FORCE MAINS WITHIN PUBLIC R/W SHALL BE CLASS 200, SDR 18, WITH MECHANICAL JOINTS, AND HAVE A GREEN MAGNETIC TAPE A MINIMUM OF 3"
- TAPE SHOULD READ "FORCE MAIN". ALL SANITARY SEWER GRAVITY MAINS OR SANITARY SEWER FORCE MAINS THAT
- REQUIRE D.I.P. ARE TO BE POLYLINED OR EPOXY LINED. ALL SANITARY SEWER COVERS SHALL BE TRAFFIC RATED FOR H-20 LOADING.
- BE INSTALLED ACCOMPANIED BY A METAL TAPE SIMILAR TO "TERRATAPE" COLORED GREEN AND LAID ONE FOOT ABOVE THE PIPE. ALL GRAVITY SEWER PIPING SHALL BE SUBJECT TO A VISUAL INSPECTION BY THE
- OWNER'S ENGINEER. CONTRACTOR TO NOTIFY THE ENGINEER 48 HOURS IN ADVANCE TO SCHEDULE INSPECTION. 11. THE CONTRACTOR SHALL PERFORM AN INFILTRATION/EXFILTRATION TEST ON ALL GRAVITY SEWERS IN ACCORDANCE WITH THE REGULATORY AGENCY HAVING

SUBMITTED TO THE REGULATORY AGENCY FOR APPROVAL. COORDINATION AND

SANITARY SEWERS SHALL HAVE A MINIMUM COVER OF THREE (3) FEET AND SHALL

ALL FORCE MAINS SHALL BE SUBJECT TO A HYDROSTATIC PRESSURE TEST IN ACCORDANCE WITH THE REGULATORY AGENCY HAVING JURISDICTION. SAID TESTS ARE TO BE CERTIFIED BY THE ENGINEER AND SUBMITTED TO THE REGULATORY AGENCY FOR APPROVAL COORDINATION AND NOTIFICATION OF ALL PARTIES IS CONTRACTOR'S RESPONSIBILITY.

JURISDICTION. SAID TESTS ARE TO BE CERTIFIED BY THE ENGINEER AND

NOTIFICATION OF ALL PARTIES IS THE CONTRACTOR'S RESPONSIBILITY.

GEOTECHNICAL NOTE

CONTRACTOR TO REVIEW AND FOLLOW CONSTRUCTION TECHNIQUES OUTLINED IN THE SITE GEOTECHNICAL REPORT

STORM DRAINAGE

USING ASTM F 477, ELASTOMERIC SEALS.

f. PIPE JOINTS SHALL BE WATER-TIGHT.

- UNLESS OTHERWISE SHOWN ON PLANS, ALL PVC PIPE AND FITTINGS SHALL CONFORM TO THE FOLLOWING:
- a. PVC SEWER PIPE AND FITTINGS. NPS 15-INCH AND SMALLER ASTM D 3034. SDR 35, WITH BELL-AND-SPIOT ENDS FOR GASKETED JOINTS USING ASTM F
- 477, ELASTOMERIC SEALS. b. PVC SEWER PIPE AND FITTINGS, NPS 18-INCH AND LARGER: ASTM F 679, T-1 WALL THICKNESS, WITH BELL-AND-SPIGOT ENDS FOR GASKETED JOINTS
- c. PIPE JOINTS SHALL BE WATER-TIGHT. 2. UNLESS OTHERWISE SHOWN ON THE PLANS, ALL REINFORCED CONCRETE PIPE
- (RCP) AND FITTINGS SHALL CONFORM TO THE FOLLOWING: a. ASTM C 76, WITH BELL-AND-SPIGOT OR GROOVE AND TONGUE ENDS AND GASKETED JOINTS WITH ASTM C 443 RUBBER GASKETS.
- b. RCP PIPE SHALL BE CLASS III, WALL B.
- c. WHEN LOCATED IN TRAFFIC AREAS WITH LESS THAN 2 FEET OF COVER, RCP PIPE SHALL BE CLASS IV. WALL B.

d. WHEN LOCATED UNDER AIRCRAFT RAMPS OR RAILROAD OPERATIONS, RCP

- PIPE SHALL BE CLASS V, WALL B WITH O-RING JOINTS. e. PIPE CLASS SHALL BE CLEARLY "STAMPED" ON EACH SEGMENT OF RCP PIPE DELIVERED TO THE PROJECT.
- CONTRACTOR SHALL HANDLE AND STORE PIPE, FITTINGS, GASKETS, AND RELATED APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS.
- COMPONENTS AND RELATED APPURTENANCES ACCORDING TO MANUFACTURER'S WRITTEN RIGGING INSTRUCTIONS.

5. PVC PLASTIC PIPE AND FITTINGS SHALL NOT BE STORED IN DIRECT SUNLIGHT.

4. CONTRACTOR SHALL HANDLE MANHOLES. DROP INLETS, CURB INLETS, PIPE END

- 6. ALL PIPE. FITTINGS, GASKETS, AND SEALS SHALL BE PROTECTED FROM DIRT
- ALL STORM SEWER LINES SHALL BE TELEVISED AND THE VIDEO REPORTS
- SUBMITTED TO THE ENGINEER FOR REVIEW. a. VIDEO REPORTS ARE TO BE SUBMITTED ON CD-ROM OR DVD COMPACT DISKS.
- b. ALL LINES MUST BE FLUSHED AND CLEANED WITH POTABLE WATER PRIOR TO c. FOR SUBMERGED SYSTEMS, POND WATER LEVELS SHALL BE LOWERED

(PUMPED DOWN) BELOW THE LOWEST PIPE ENTRANCE INVERT.

d. VIDEO REPORTS WILL BE USED TO VIEW THE CONDITION OF THE STORM

SEWER PIPE PRIOR TO ACCEPTANCE. WORKMANSHIP AND CLEANLINESS OF

OF THE STORM SEWER SYSTEM PIPING AND STRUCTURES. DATUM ELEVATION

- THE INSTALLATION WILL BE CHECKED. AND SUPPLEMENTAL SPECIFICATIONS THERETO. APPROVAL AND CONSTRUCTION AS-BUILT SURVEY: THE CONTRACTOR SHALL VERIFY STORM SEWER OF ALL POTABLE WATER SERVICE MAIN EXTENSIONS AND CONNECTIONS MUST BE IMPROVEMENTS ALIGNMENT BY PROVIDING AN "AS-BUILT" SURVEY OF CONSTRUCTED CONDITIONS FROM A LICENSED SURVEYOR REGISTERED IN THE STATE OF PROJECT LOCATION. THE "AS-BUILT" SURVEY SHALL INCLUDE VERTICAL AND HORIZONTAL INFORMATION PERTAINING TO THE INSTALLATION
 - **INCLUDED IS AS FOLLOWS:** a. PIPE TYPE, SIZE. AND INVERT ELEVATIONS. b. MANHOLE, DROP INLET, CURB INLET, YARD DRAIN, AND POND CONTROL

AND BENCHMARK LOCATIONS SHALL BE INDICATED. INFORMATION TO BE

STRUCTURE LOCATIONS WITH ELEVATIONS OF BOTTOM, RIM OR GRATE ELEVATION SHOWN. c. POND CONTROL STRUCTURES: SHOW INFORMATION ON ALL FLOW CONTROL

ASPHALT PAVING

APPURTENANCES AND OUTLET PIPING.

CONSTRUCTION SPECIFICATIONS.

- 1. THE CONTRACTOR IS TO PROVIDE BARRICADES, SIGNS, FLASHERS, AND FLAG PERSONNEL AS NECESSARY TO INSURE THE SAFETY OF WORKERS AND VISITORS. ALL CONSTRUCTION SIGNING, BARRICADING, AND TRAFFIC DELINEATION IS TO CONFORM TO THE "MANUAL OF UNIFORM TRAFFIC CONTROL
- DEVICES": LATEST EDITION. 2. ALL ASPHALT PAVING MATERIALS, WORKMANSHIP, AND INSTALLATION REQUIREMENTS SHALL COMPLY WITH THE STANDARD SPECIFICATIONS OF THE STATE DEPARTMENT OF TRANSPORTATION (D.O.T.) FOR THE STATE IN WHICH
- AND SAFETY REQUIREMENTS SHALL GENERALLY NOT APPLY. a. COARSE AGGREGATE. FINE AGGREGATE AND MINERAL FILLERS: IN ACCORDANCE WITH D.O.T. MATERIAL STANDARDS AND ASSOCIATED

THE WORK OCCURS WITH SOME EXCLUSIONS. THE DOT PAYMENT PROCEDURES

b. ASPHALT BINDER, ASPHALT CEMENT, PRIME COAT, AND TACK COAT: IN ACCORDANCE WITH D.O.T. MATERIAL STANDARDS AND ASSOCIATED CONSTRUCTION SPECIFICATIONS. c. JOINT SEALANT: ASTM 0 6690 OR AASHTO M 324. TYPE II OR III, HOT APPLIED,

SINGLE COMPONENT, POLYMER-MODIFIED BITUMINOUS SEALANT.

d. PAVEMENT-MARKING PAINT: IN ACCORDANCE WITH D.O.T. MATERIAL

- STANDARDS AND ASSOCIATED CONSTRUCTION SPECIFICATIONS. COLORS AS 3. DO NOT APPLY ASPHALT MATERIALS IF SUBGRADE IS FROZEN, WET, OR EXCESSIVELY DAMP; OR IF RAIN IS IMMINENT OR EXPECTED BEFORE TIME
- REQUIRED FOR ADEQUATE CURE. APPLY ONLY AT D.O.T. RECOMMENDED
- 4. INSTALLATION TOLERANCES: a. PAVEMENT THICKNESS: THE AVERAGE OF THE MEASURED THICKNESS OF THE

PAVEMENT LAYERS SHALL MEET OR EXCEED THE REQUIRED THICKNESS FOR

- THOSE LAYERS, AND THE MINIMUM THICKNESS IN ANY ONE AREA SHALL NOT BE LESS THAN 0.25 INCHES BELOW THE REQUIRED THICKNESS. b. PAVEMENT SURFACE SMOOTHNESS: COMPACT EACH COURSE TO PRODUCE A SURFACE SMOOTHNESS WITHIN THE FOLLOWING TOLERANCES AS DETERMINED BY USING A 10-FOOT STRAIGHTEDGE APPLIED TRANSVERSELY
- OR LONGITUDINALLY TO PAVED AREAS: BASE COURSE: 1/4 -INCH SURFACE COURSE: 1/4 -INCH c. CROWNED SURFACES: TEST WITH CROWNED TEMPLATE CENTERED AND AT

RIGHT ANGLE TO CROWN. MAXIMUM ALLOWABLE VARIANCE FROM TEMPLATE

5. PAVEMENT MARKINGS SHALL BE MADE WITH NON-THERMOPLASTIC ACRYLIC MARKING PAINT MEETING THE DOT MATERIAL REQUIREMENTS. ALLOW PAVING TO AGE FOR 30 DAYS BEFORE STARTING PAVEMENT MARKING. PROCEED WITH PAVEMENT MARKING ONLY ON CLEAN, DRY SURFACES. SWEEP AND CLEAN SURFACE TO ELIMINATE LOOSE MATERIAL AND DUST. APPLY PAINT WITH MECHANICAL EQUIPMENT TO PRODUCE PAVEMENT MARKINGS, OF DIMENSIONS AND COLORS INDICATED. WITH UNIFORM, STRAIGHT EDGES, APPLY AT MANUFACTURER'S RECOMMENDED RATES TO PROVIDE A MINIMUM WET FILM

THICKNESS OF 15 MILS AND ONLY AT MANUFACTURER'S RECOMMENDED

AMBIENT AND SURFACE TEMPERATURES.

AS-BUILT SURVEY UPON COMPLETION OF THE WORK, THE SITEWORK SUB-CONTRACTOR SHALL RETAIN THE SERVICES OF A PROFESSIONAL LAND SURVEYOR TO PERFORM AN "AS-BUILT" SURVEY. THE "AS-BUILT" SURVEY SHALL INCLUDE LOCATION AND ELEVATION DATA FOR ALL CONSTRUCTED IMPROVEMENTS. SPECIFIC

a. ALL PAVEMENT SURFACES INCLUDING CURBS, WALKS, RAMPS, PADS, ETC.

d. ALL STORM DETENTION, RETENTION, AND WATER QUALITY POND GRADING

- b. ALL SANITARY SEWER c. ALL STORM SEWER
- e. EMBANKMENT AND LAWN AREA GRADING f. BUILDING FINISH FLOOR ELEVATION

INFORMATION INCLUDED IN THE SURVEY SHALL BE AS FOLLOWS:

h. OUT BUILDINGS, IF APPLICABLE i. WATER, GAS, BURIED ELECTRIC AND BURIED TELECOM LINES j. LIGHT POLE LOCATIONS

g. BUILDING CORNER LOCATIONS

k. STRIPING AND PAVEMENT MARKINGS I. TREE LOCATIONS WITH SIZE AND SPECIES



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NISIT SAPPARKHAO, P.E.

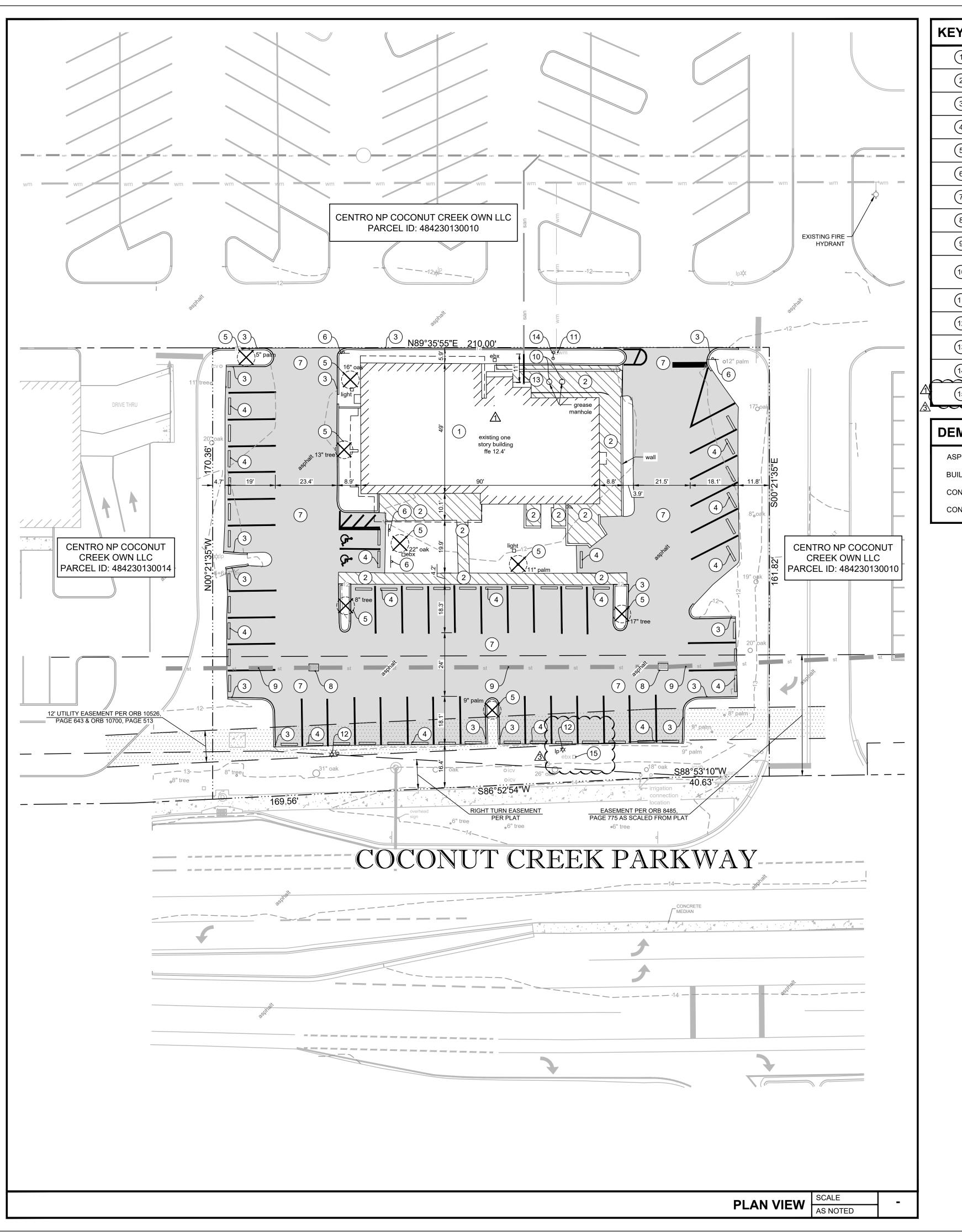
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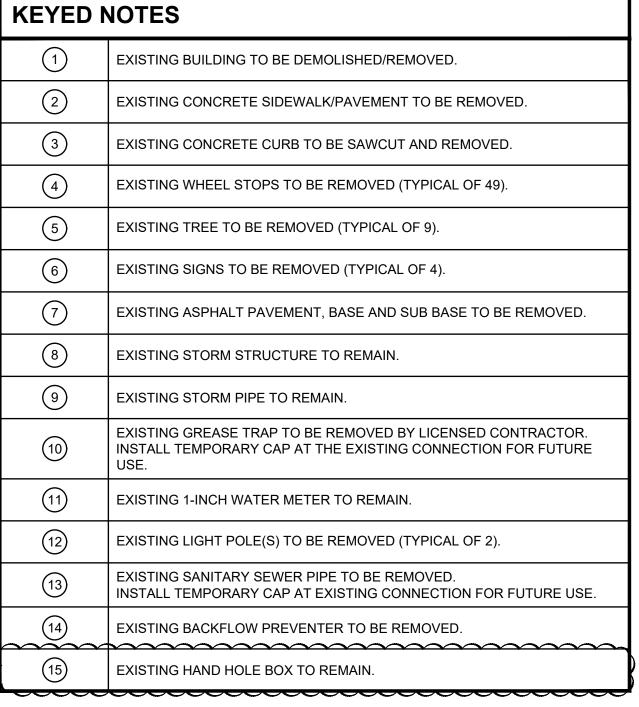
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PROJECT INFORMATION BLOCK JOB# 230649 DATE: 09/05/24 DRAWN BY: CHECKED BY:

CIVIL SPECIFICATIONS

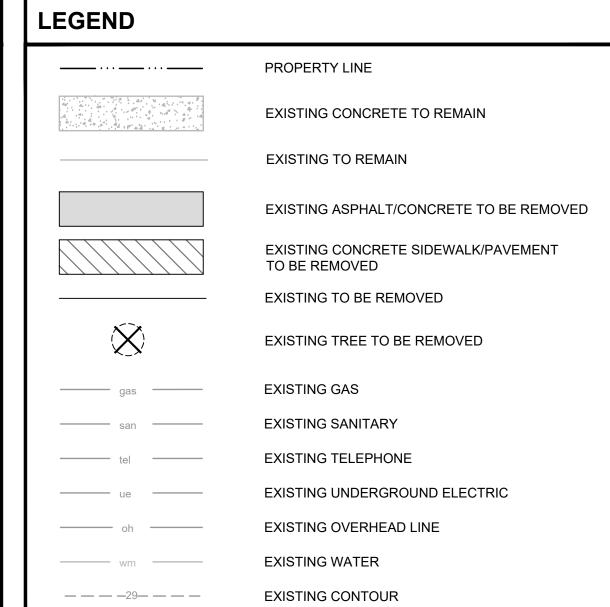
SHEET TITLE





DEMOLITION QUANTITIES

ASPHALT PAVEMENT	= 18,245 SF
BUILDING	= 4,500 SF
CONCRETE	= 2,002 SF
CONCRETE CURB	= 641 LF



DEMOLITION NOTES

- CONTRACTOR TO ESTABLISH AND PROPERLY FLAG PROPERTY LINES PRIOR TO DEMOLITION.
- ALL ABOVE AND BELOW GROUND HARDWARE, EQUIPMENT AND MATERIALS TO BE DISPOSED OF IN ACCORDANCE WITH LOCAL MUNICIPALITY REQUIREMENTS.
- ANY AFFECTED WATER AND SANITARY UTILITIES TO BE PLUGGED SHALL BE FILLED WITH A MINIMUM 1.0 CUBIC FT. OF NON SHRINK GROUT OR AS OTHERWISE APPROVED BY ENGINEER. ANY UTILITIES THAT ARE EXPECTED TO BE ABANDONED, MUST BE FULLY REMOVED FROM THE SITE.
- TREES SHOWN TO REMAIN SHALL MAINTAIN PROTECTIVE BARRIERS DURING DEMOLITION. THESE BARRIERS SHALL BE IN ACCORDANCE WITH CURRENT LOCAL MUNICIPALITY STANDARDS.
- THE CONTRACTOR SHALL COORDINATE THE REMOVAL OF EXISTING UTILITIES WITH THE OWNER OF SAID UTILITY. THIS SHALL INCLUDE BUT NOT BE LIMITED TO WATER, SEWER, GAS, CABLE TV, POWER AND TELEPHONE.
- 6. THE CONTRACTOR SHALL UTILIZE SUITABLE EROSION CONTROL DURING DEMOLITION, SEE "EROSION & SEDIMENT CONTROL DETAILS".
- THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES PRIOR TO DEMOLITION AND WILL BE RESPONSIBLE FOR THE DAMAGE OF ANY ON-SITE OR OFF-SITE UTILITIES THAT ARE NOT A PART OF THIS PROJECT OR ARE NOT IDENTIFIED TO BE REMOVED.
- ALL DISTURBED AREA WITH THE RIGHT OF WAY WILL BE RESTORED TO ORIGINAL OR BETTER CONDITION BY GRADING AND SODDING THE AREA DISTURBED.
- THE DEMOLITION SHALL MEET THE REQUIREMENTS OF NFPA 241 STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATION AND DEMOLITION OPERATIONS.

TREE NOTE:

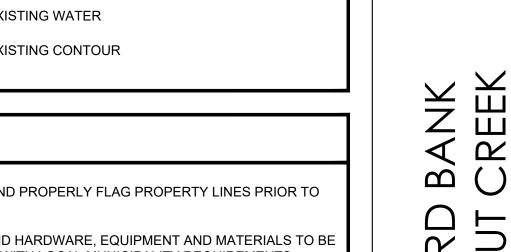
CONTRACTOR TO INSTALL TREE BARRICADES SURROUNDING ALL TREES TO REMAIN. IRRIGATE ALL LANDSCAPING AS NEEDED.

SCALE

20'

40 '

60



architects

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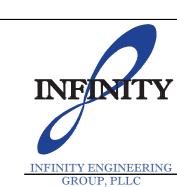
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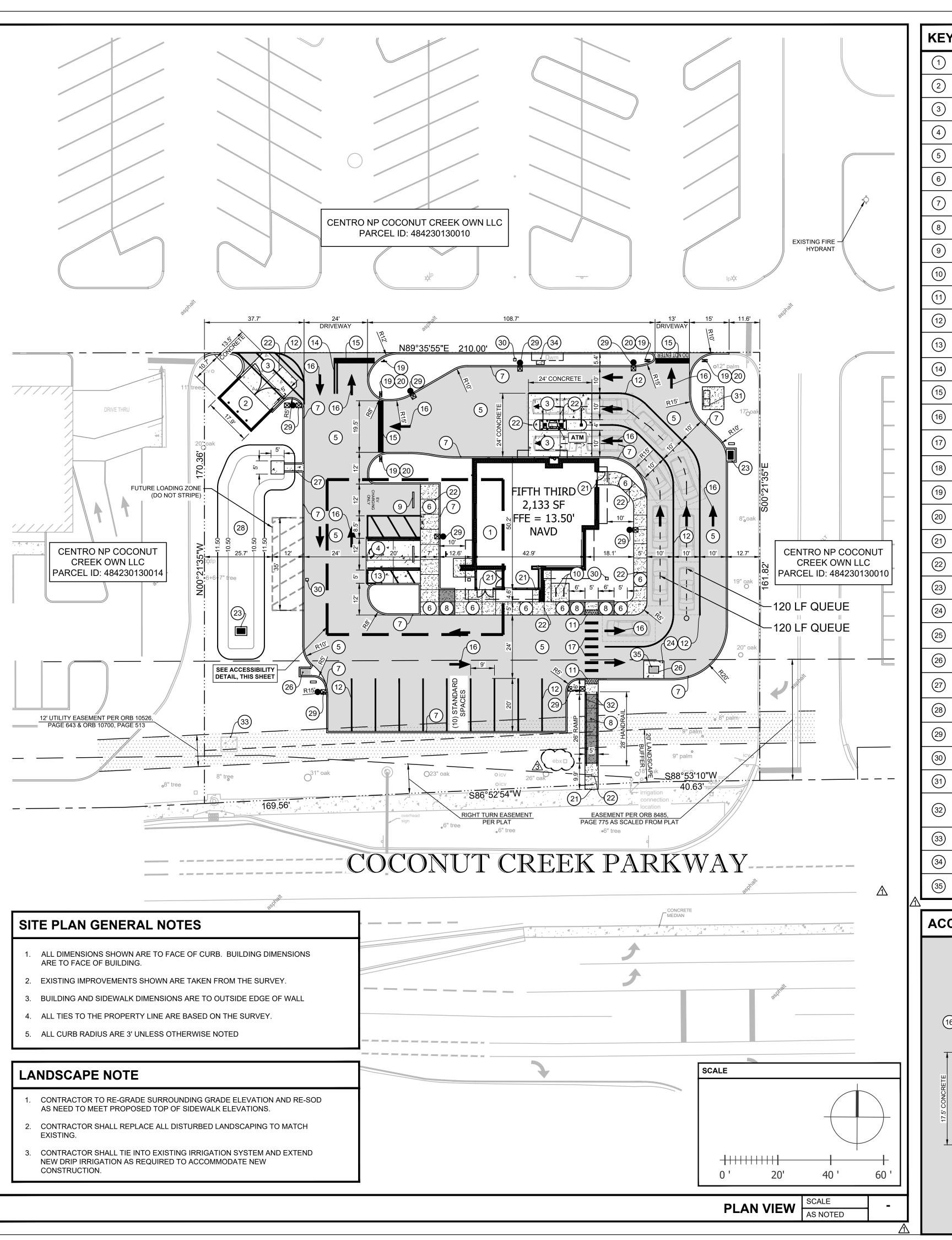
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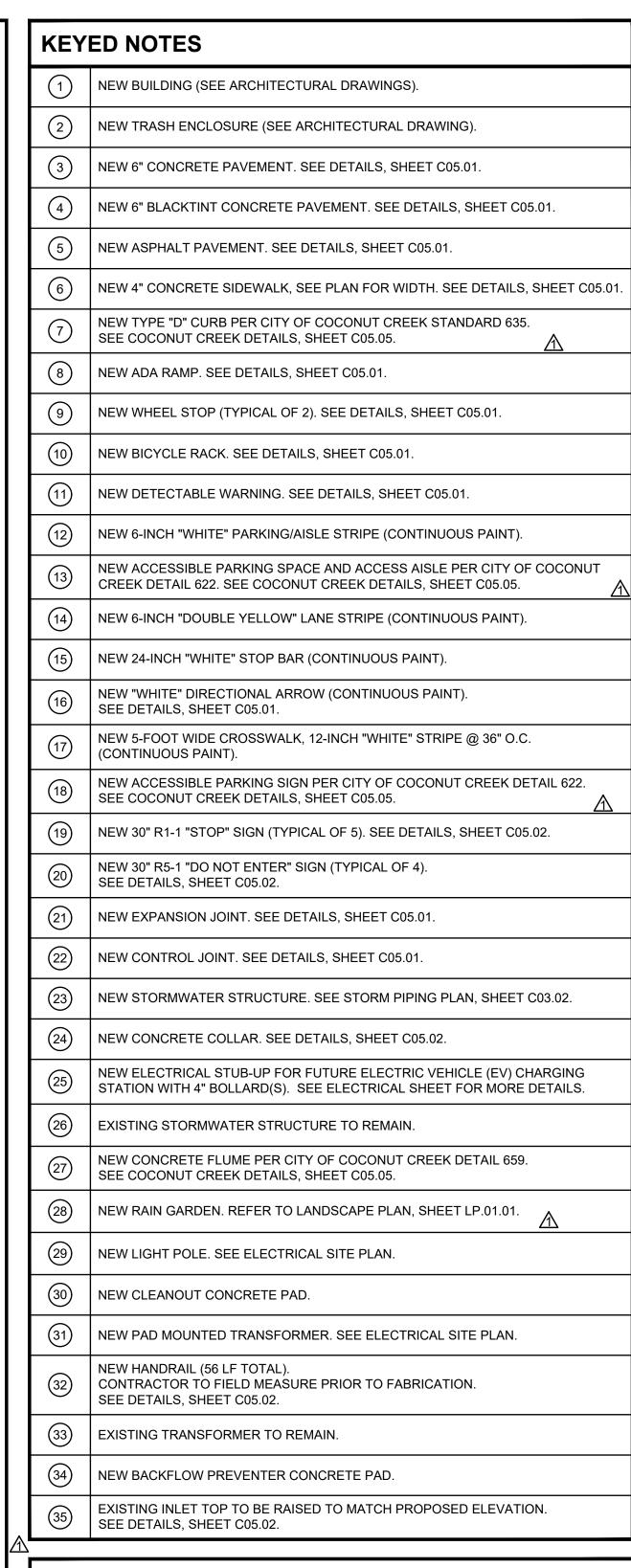
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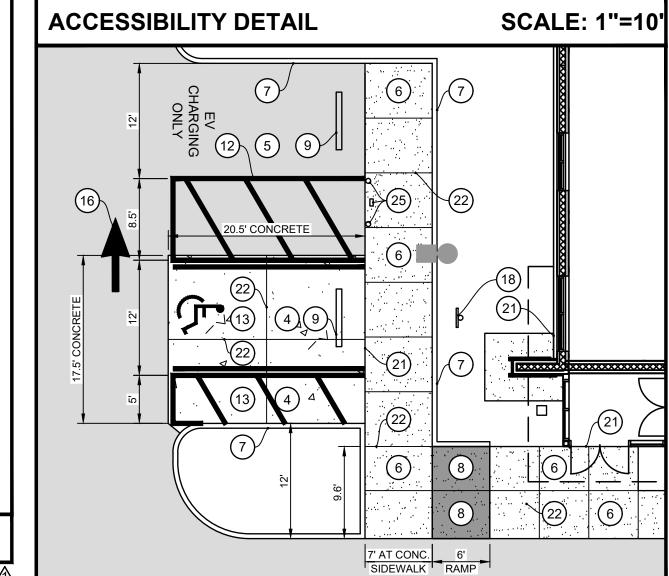
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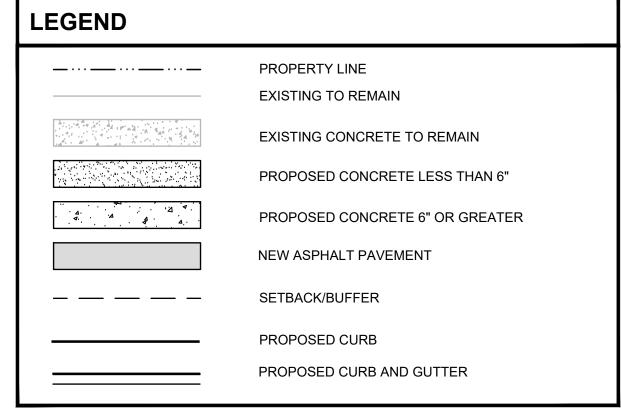
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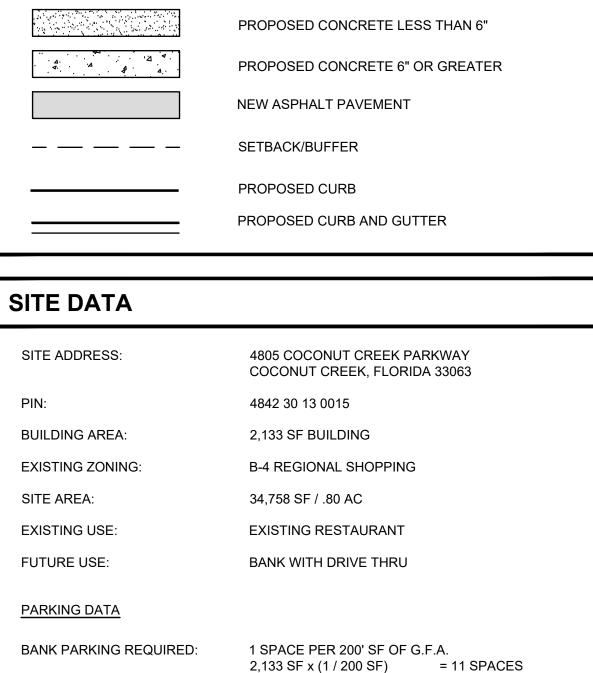
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PARKING SPACE SIZE:	10' x 20' MINIMUM
DRIVE THROUGH QUEUE:	6 SPACES PER ATM LANE 6 SPACES PER TELLER LANE 10' x 18' QUEUE SIZE
LOADING ZONE:	*NOTE-FINANCIAL INSTITUTIONS DO NOT US LOADING ZONES FOR SECURITY PURPOSES DELIVERY TRUCK WILL PARK DIRECTLY IN F

STANDARD PARKING

ADA PARKING

EV PARKING

FRONT OF MAIN ENTRANCE

TOTAL PARKING PROVIDED = 12 SPACES

= 9 SPACES

= 2 SPACES

REQUIRED

= 1 SPACE

LANDSCAPE BUFFER - FRONT (COCONUT CREEK PARKWAY)	= 20'
LANDSCAPE BUFFER - SIDE (EAST)	= 10'
LANDSCAPE BUFFER - REAR	= 10'
	<u> </u>

BUILDING REQUIREMENTS:	REQUIRED
BUILDING SETBACK - FRONT (COCONUT CREEK PARKWAY) BUILDING SETBACK - REAR BUILDING SETBACK - SIDE	= 150 = 100' = 100'

MAXIMUM BUILDING HEIGHT

FLOOD ZONE:

TOTAL PARKING PROVIDED:

LANDSCAPE REQUIREMENTS:

THE PROPERTY SHOWN HEREON APPEARS TO LIE IN FLOOD ZONE "X", AND X "SHADED" ACCORDING TO THE FLOOD INSURANCE RATE MAP, COMMUNITY NUMBER 120031, PANEL NUMBER 0355, SUFFIX H, EFFECTIVE AUGUST 18, 2014, FOR COCONUT CREEK, FLORIDA.

	MATERIAL QUA	NTITIES	
ſ	ASPHALT PAVEMENT	= 13,770 SF	
	CONCRETE SIDEWALK	= 1,380 SF	
١	CONCRETE	= 1,120 SF	
	BLACKTINT CONCRETE	= 361 SF	
	CONCRETE CURB	= 990 LF	Δ

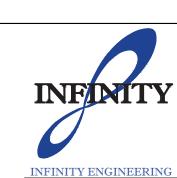
REAS	SQUARE FEET (SF)	ACRE (AC)	PERCENT %
BROSS SITE	34,758	0.80	100%
BUILDING	4,130	0.09	12%
	1,122		
OTAL IMPERVIOUS (INCLUDES BUILDING)	25,183	0.58	72%

AREAS	SQUARE FEET (SF)	ACRE (AC)	PERCENT %
GROSS SITE	34,758	0.80	100%
BUILDING	2,133	0.05	6%
TOTAL IMPERVIOUS (INCLUDES BUILDING)	19,704	0.45	57%
TOTAL PERVIOUS (LS + DRY POND AREA)	15,054	0.35	43%



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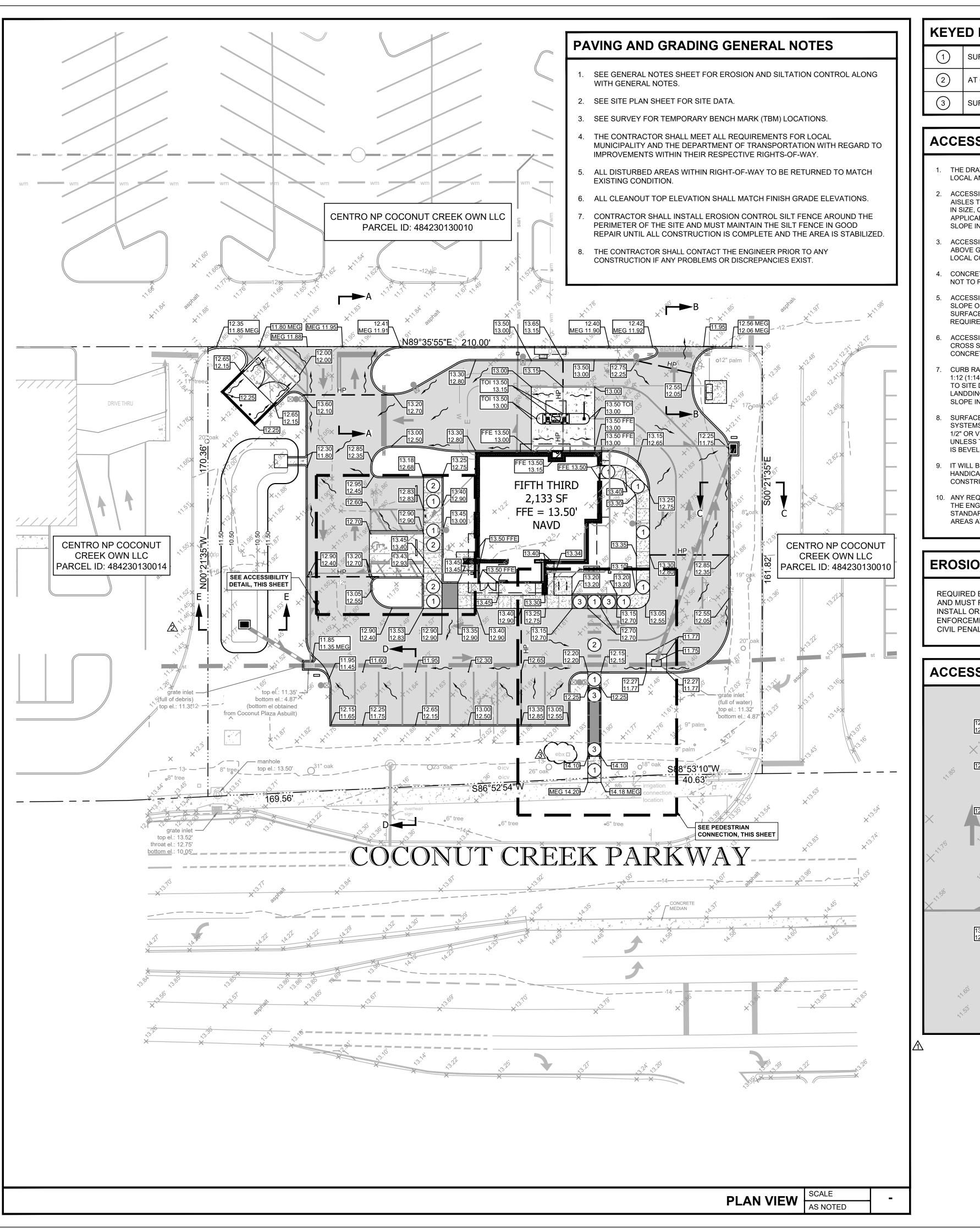
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SHEET TITLE

SITE PLAN



KEYED NOTES:

SURFACE SLOPES NOT TO EXCEED 1:48 IN ALL DIRECTIONS.

AT GRADE SIDEWALK 1:48 MAXIMUM SLOPE ALL DIRECTIONS.

SURFACE SLOPES NOT TO EXCEED 1:48 CROSS SLOPES AND 1:12 RUNNING.

ACCESSIBILITY NOTES

THE DRAWINGS ARE DESIGNED TO MEET ACCESSIBILITY STANDARDS AT MINIMUM. LOCAL AND STATE REQUIREMENTS OR CODES MAY HAVE ADDITIONAL STANDARDS.

- ACCESSIBLE PARKING SPACES, SIGNAGE, LOGOS, WHEEL STOPS AND ACCESSIBLE AISLES TO MEET ALL OF THE 2010 ADA STANDARDS REQUIREMENTS - PROVIDE SPACES IN SIZE, QUANTITY AND LOCATIONS REQUIRED BY THE ADA STANDARDS AND APPLICABLE CODES AS DETERMINED BY LOCAL JURISDICTION. PROVIDE A MAXIMUM SLOPE IN EITHER DIRECTION OF 1:48 (1:64 RECOMMENDED).
- ACCESSIBLE PARKING SIGNAGE ON POST. BOTTOM OF SIGNAGE TO BE MINIMUM 60" ABOVE GRADE. VERIFY ALL REQUIREMENTS WITH ACCESSIBILITY REQUIREMENTS AND
- CONCRETE WHEEL STOP. ALL ACCESSIBLE SPACES- LOCATE FIXED WHEEL STOP SO AS NOT TO REDUCE THE WIDTH OF THE ADJOINING ACCESSIBLE ROUTE.
- ACCESSIBLE ROUTE TO PUBLIC RIGHT OF WAY (1 REQUIRED). MAXIMUM RUNNING SLOPE OF 1:20 AND MAXIMUM CROSS SLOPE OF 1:48 (1:64 RECOMMENDED). ALL PAVED SURFACES, CURB RAMPS AND TRANSITIONS ALONG PATH TO MEET ACCESSIBILITY
- ACCESSIBLE PATH/WALKWAY TO BE 5'-0" MINIMUM, RUNNING SLOPE 1:20 MAXIMUM, CROSS SLOPE 1:48 MAXIMUM, SLOPE AWAY FROM BUILDING - BROOM FINISH
- 1:12 (1:14 RECOMMENDED), MAXIMUM CRISS SLOPE 1:48 (1:64 RECOMMENDED). REFER TO SITE DETAILS SHEET FOR ADDITIONAL INFORMATION, PROVIDE 36" LONG MINIMUM LANDDING AT TOP AND 60: MINIMUM LANDING AT BOTTOM OF RAMP WITH MAXIMUM SLOPE IN EITHER DIRECTION OF LANDING TO BE 1:48 (1:64 RECOMMENDED)
- SURFACE CONDITIONS AT ACCESSIBLE WALKWAYS AND ACCESSIBLE AREAS (PAVERS SYSTEMS AND/OR CONCRETE SURFACES) SHALL NOT INCLUDE GAPS GREATER THAT 1/2" OR VERTICAL CHANGES AT JOINTS OR BETWEEN UNITS GREATER THAN 1/4" -UNLESS THE OVERALL LEVEL CHANGE DOES NOT EXCEED 1/2" AND THE LEVEL CHANGE
- IT WILL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO ENSURE THAT THE HANDICAP PARKING SPACES, ACCESSIBLE ROUTES, AND SIDEWALK/CROSSWALKS ARE CONSTRUCTED TO MEET ADA REQUIREMENTS.
- IO. ANY REQUIREMENTS LISTED ABOVE THAT CAN NOT BE MET SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY. ANYTHING NOT BUILT TO THE ABOVE STANDARDS WILL REQUIRE REMOVAL AND REPLACEMENT OF THE NON COMPLIANT AREAS AT THE GENERAL CONTRACTORS COST.

EROSION CONTROL MEASURE NOTE

REQUIRED EROSION CONTROL MEASURES SHALL BE INSTALLED AS NEEDED AND MUST REMAIN INTACT THROUGHOUT CONSTRUCTION. FAILURE TO INSTALL OR PROPERLY MAINTAIN THESE BARRICADES WILL RESULT IN ENFORCEMENT ACTION WHICH MAY INCLUDE CITATIONS, AND INITIATION OF CIVIL PENALTY PROCEDURES.

ACCESSIBILITY DETAIL SCALE: 1"=10"

LEGEND

EXISTING ELEVATION ×49.58 PROPOSED PAVEMENT ELEVATION TOP OF SIDEWALK/CURB EDGE OF PAVEMENT DITCH BOTTOM INLET

FINISH FLOOR ELEVATION

HIGH POINT MATCH EXISTING GRADE

TOP OF ISLAND 12" OR GREATER STORMWATER PIPE LESS THAN 12" STORMWATER PIPE

PROPOSED SURFACE STORMWATER FLOW

PROPOSED SWALE STORMWATER FLOW

— −29— EXISTING CONTOUR ——29— PROPOSED CONTOUR

CONTROL BENCHMARKS

BENCHMARKS:

CONTROL BENCHMARK: S.B.C STAMPED BM#40 AT SOUTHEAST CORNER OF CONCRETE PAD AROUND CONCRETE TRAFFIC LIGHT SUPPORT POLE, SOUTHEAST QUADRANT OF

12.95' (NGVD29) - 1.562' = EL.: 11.39' (NAVD88)

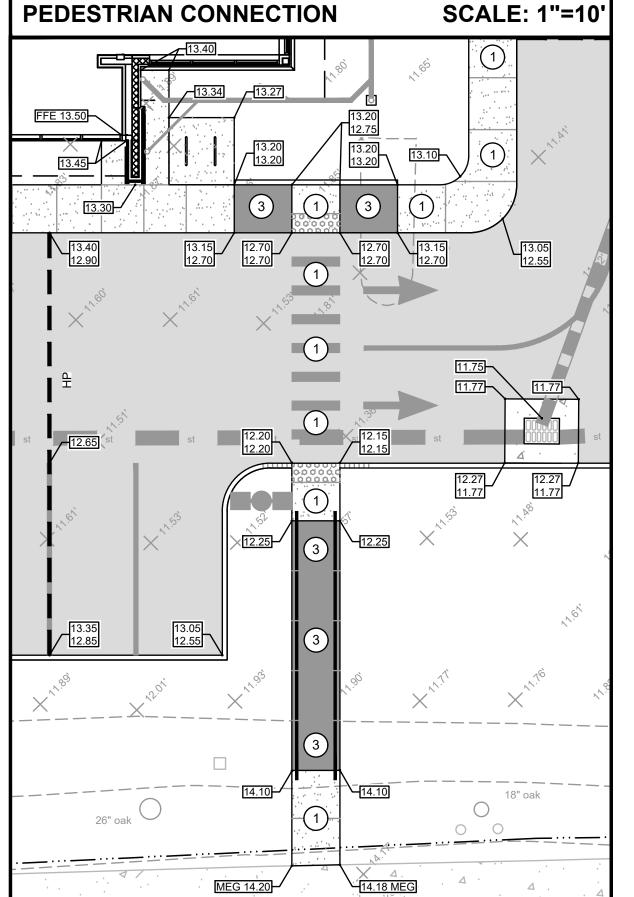
LYONS ROAD AND HAMMOKS BOULEVARD.

STATION IS A NAIL AND DISK STAMPED "EBI LB-7652" LOCATED 51.4' SOUTHWEST OF THE SOUTHEAST CORNER OF SUBJECT PARCEL.

EL.: 14.32' (NAVD88)

STATION IS A NAIL AND DISK STAMPED "EBI LB-7652" LOCATED 3.1' NORTHEAST OF THE SOUTHWEST CORNER OF SUBJECT PARCEL.

EL.: 13.55' (NAVD88)



SCALE

20'

40 '

60

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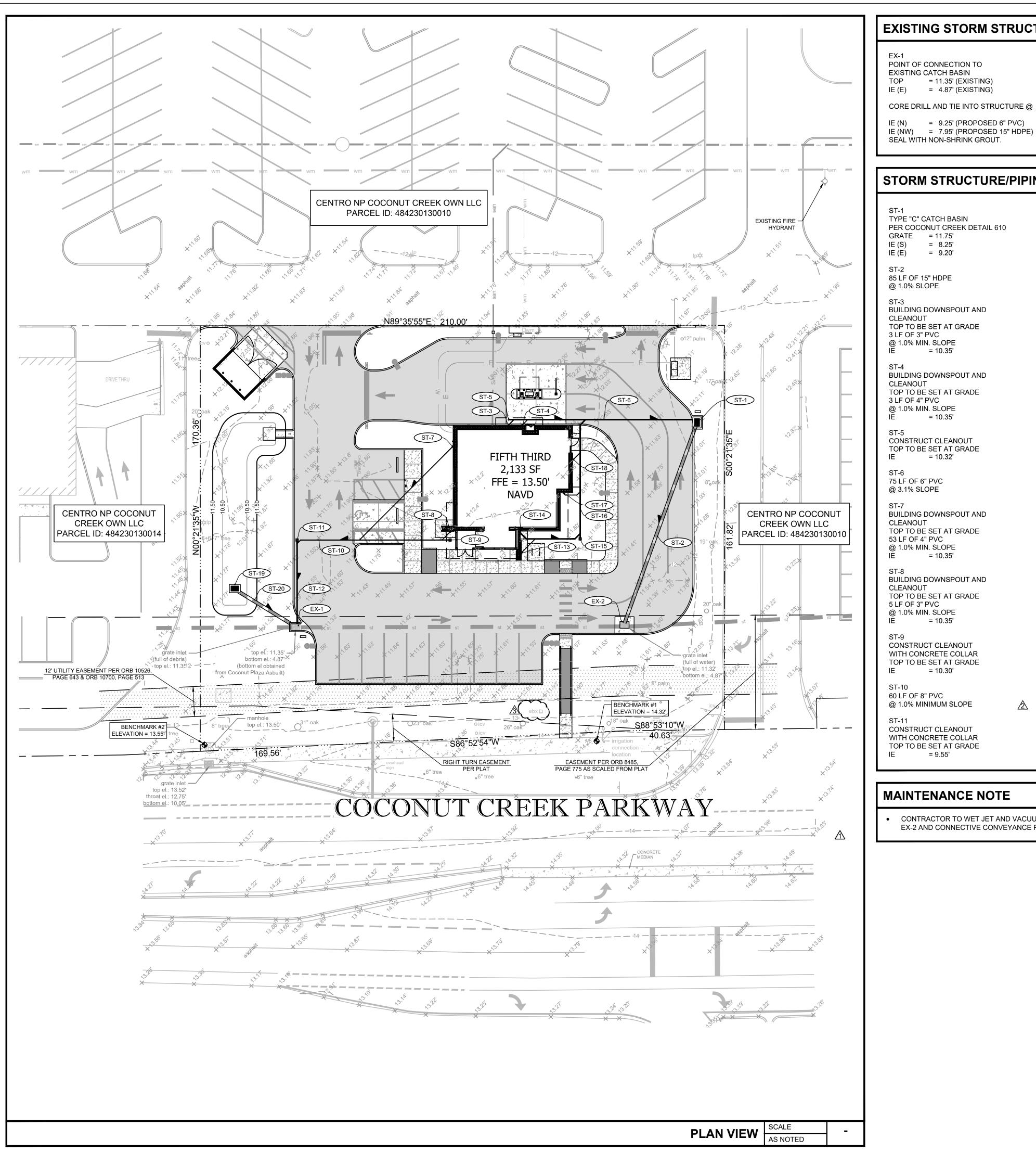
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GRADING PLAN

SHEET NUMBER

C03.01



EXISTING STORM STRUCTURE/PIPING DATA

POINT OF CONNECTION TO **EXISTING CATCH BASIN** = 11.35' (EXISTING) = 4.87' (EXISTING)

EXISTING CATCH BASIN EXISTING INLET TOP TO BE RAISED TO MATCH PROPOSED ELEVATION TOP IE (E) = 4.87' (EXISTING) = 4.87' (EXISTING)

= 9.25' (PROPOSED 6" PVC) CORE DRILL AND TIE INTO STRUCTURE @ IE (NW) = 7.95' (PROPOSED 15" HDPE)SEAL WITH NON-SHRINK GROUT. = 7.40' (PROPOSED 15" HDPE) SEAL WITH NON-SHRINK GROUT.

STORM STRUCTURE/PIPING DATA

TYPE "C" CATCH BASIN PER COCONUT CREEK DETAIL 610 GRATE = 11.75' IE (S) = 8.25' IE (E) = 9.20' 85 LF OF 15" HDPE @ 1.0% SLOPE

BUILDING DOWNSPOUT AND CLEANOUT TOP TO BE SET AT GRADE 3 LF OF 3" PVC @ 1.0% MIN. SLOPE = 10.35'

BUILDING DOWNSPOUT AND CLEANOUT TOP TO BE SET AT GRADE 3 LF OF 4" PVC @ 1.0% MIN. SLOPE = 10.35'

CONSTRUCT CLEANOUT TOP TO BE SET AT GRADE = 10.32'

75 LF OF 6" PVC @ 3.1% SLOPE

BUILDING DOWNSPOUT AND **CLEANOUT** TOP TO BE SET AT GRADE 53 LF OF 4" PVC @ 1.0% MIN. SLOPE

= 10.35'

BUILDING DOWNSPOUT AND CLEANOUT TOP TO BE SET AT GRADE 5 LF OF 3" PVC @ 1.0% MIN. SLOPE = 10.35'

CONSTRUCT CLEANOUT WITH CONCRETE COLLAR TOP TO BE SET AT GRADE = 10.30'

60 LF OF 8" PVC @ 1.0% MINIMUM SLOPE

CONSTRUCT CLEANOUT WITH CONCRETE COLLAR TOP TO BE SET AT GRADE = 9.55'

ST-12 29 LF OF 8" PVC @ 2.0% SLOPE

ST-13 **BUILDING DOWNSPOUT AND** CLEANOUT TOP TO BE SET AT GRADE 8 LF OF 3" PVC @ 1.0% MIN. SLOPE = 10.35'

ST-14 **BUILDING DOWNSPOUT AND** CLEANOUT TOP TO BE SET AT GRADE 24 LF OF 6" PVC @ 1.0% MIN. SLOPE

= 10.35'

ST-15 CONSTRUCT CLEANOUT WITH CONCRETE COLLAR TOP TO BE SET AT GRADE = 10.15'

46 LF OF 8" PVC @ 1.0% MINIMUM SLOPE

BUILDING DOWNSPOUT AND CLEANOUT TOP TO BE SET AT GRADE 8 LF OF 3" PVC @ 1.0% MIN. SLOPE = 10.35'

ST-18 BUILDING DOWNSPOUT AND CLEANOUT TOP TO BE SET AT GRADE 5 LF OF 3" PVC @ 1.0% MIN. SLOPE = 10.35'

ST-19 ST-19 **BIO-RETENTION AREA OUTFALL CONTROL** STRUCTURE MODIFIED FDOT TYPE "C" CATCH BASIN PER COCONUT CREEK DETAIL 610 GRATE = 11.00' (HORIZONTAL WEIR) IE (SE) = 8.25'

SEE OCS DETAIL ON SHEET C05.06

ST-20 28 LF OF 15" HDPE @ 1.07% SLOPE

MAINTENANCE NOTE

CONTRACTOR TO WET JET AND VACUUM EXISTING STRUCTURES EX-1 AND EX-2 AND CONNECTIVE CONVEYANCE PIPING.

LEGEND

ELEVATION TYPICAL CLEANOUT INVERT ELEVATION SUMP ELEVATION **EXISTING ELEVATION** DITCH BOTTOM INLET **CURB INLET** FINISH FLOOR ELEVATION REINFORCED CONCRETE PIPE STORM SEWER STRUCTURE NUMBER **BUILDING DOWN SPOUT** 12" OR GREATER STORMWATER PIPE

LESS THAN 12" STORMWATER PIPE

DIRECTION OF PIPE FLOW

— −29— EXISTING CONTOUR

----29------ PROPOSED CONTOUR

CONTROL BENCHMARKS

BENCHMARKS: CONTROL BENCHMARK:

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EL.: 13.55' (NAVD88)

EROSION CONTROL MEASURE NOTE

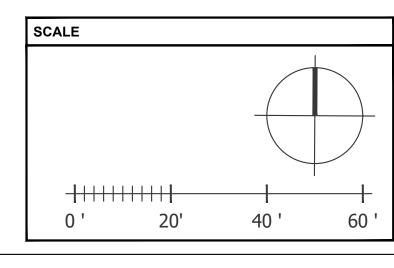
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PAVING AND GRADING GENERAL NOTES

- 1. SEE GENERAL NOTES SHEET FOR EROSION AND SILTATION CONTROL ALONG WITH GENERAL NOTES.
- 2. SEE SITE PLAN SHEET FOR SITE DATA.
- 3. SEE SURVEY FOR TEMPORARY BENCH MARK (TBM) LOCATIONS.
- 4. THE CONTRACTOR SHALL MEET ALL REQUIREMENTS FOR LOCAL MUNICIPALITY AND THE DEPARTMENT OF TRANSPORTATION WITH REGARD TO IMPROVEMENTS WITHIN THEIR RESPECTIVE RIGHTS-OF-WAY.
- 5. ALL DISTURBED AREAS WITHIN RIGHTS-OF-WAY TO BE RETURNED TO MATCH EXISTING CONDITION.
- 6. ALL CLEANOUT TOP ELEVATION SHALL MATCH FINISH GRADE ELEVATIONS.
- 7. CONTRACTOR SHALL INSTALL EROSION CONTROL SILT FENCE AROUND THE PERIMETER OF THE SITE AND MUST MAINTAIN THE SILT FENCE IN GOOD REPAIR UNTIL ALL CONSTRUCTION IS COMPLETE AND THE AREA IS STABILIZED.
- 8. THE CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO ANY CONSTRUCTION IF ANY PROBLEMS OR DISCREPANCIES EXIST.





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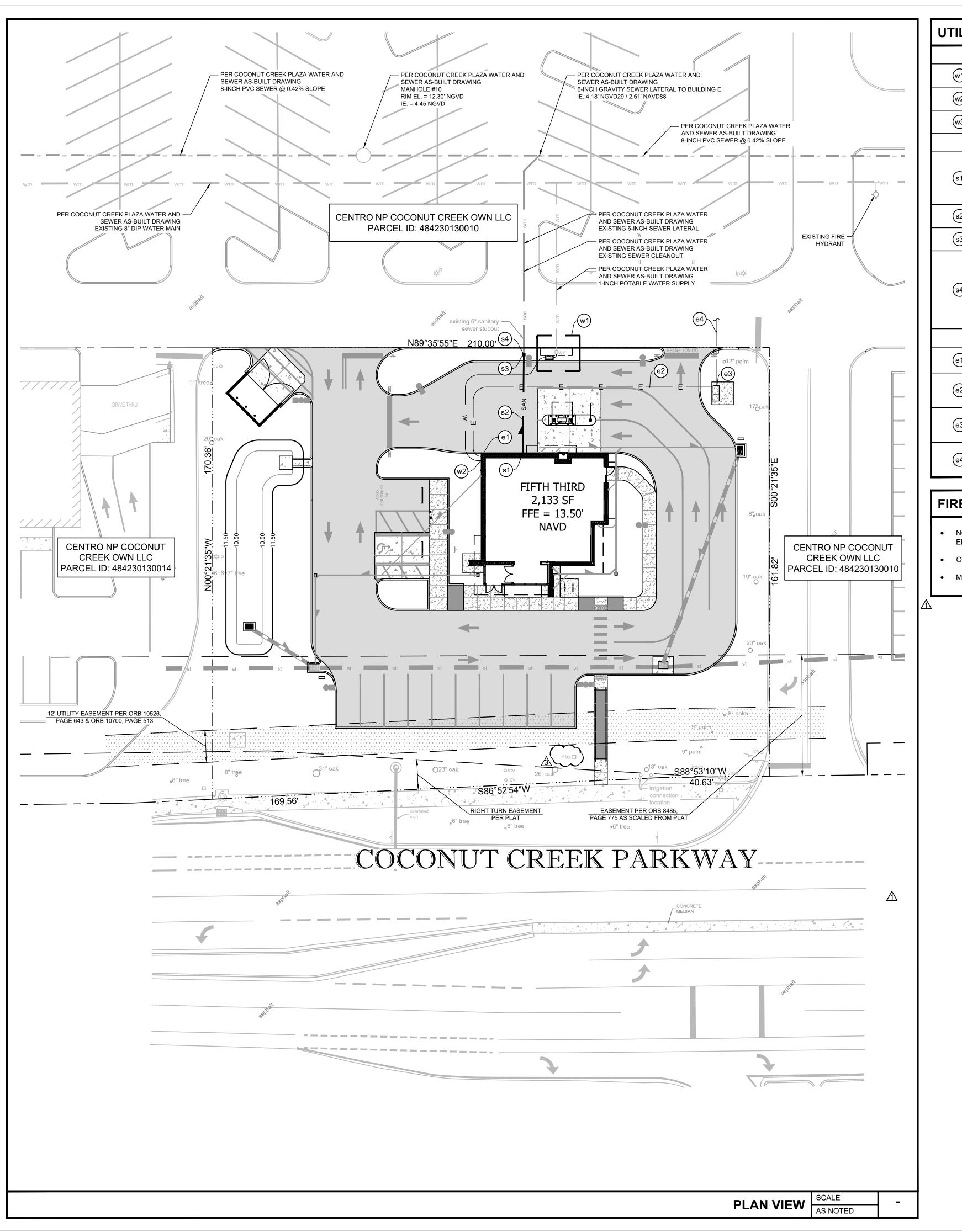
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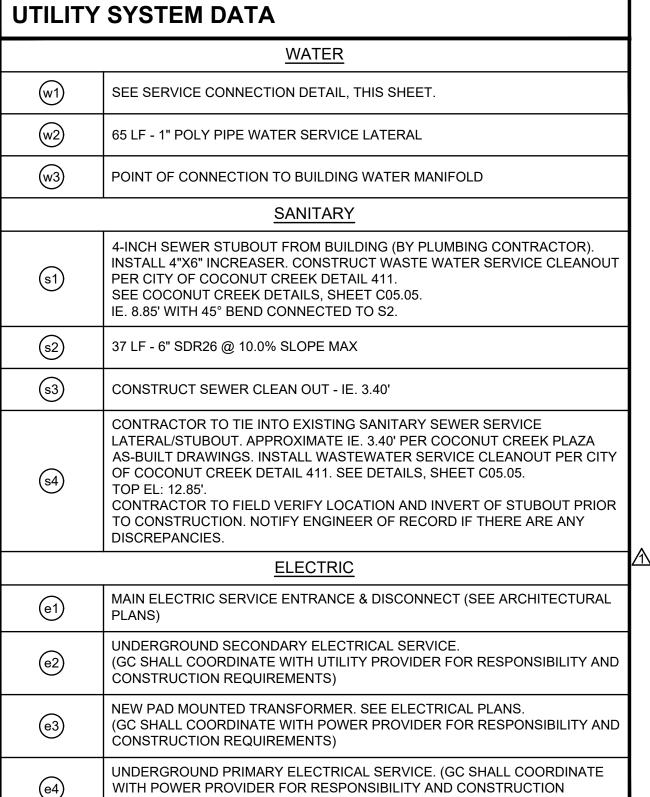
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STORM PIPING PLAN

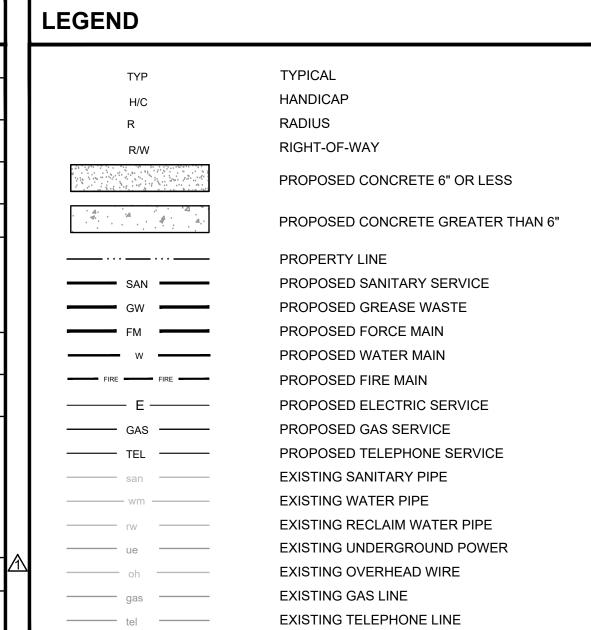




FIRE FLOW CALCULATIONS

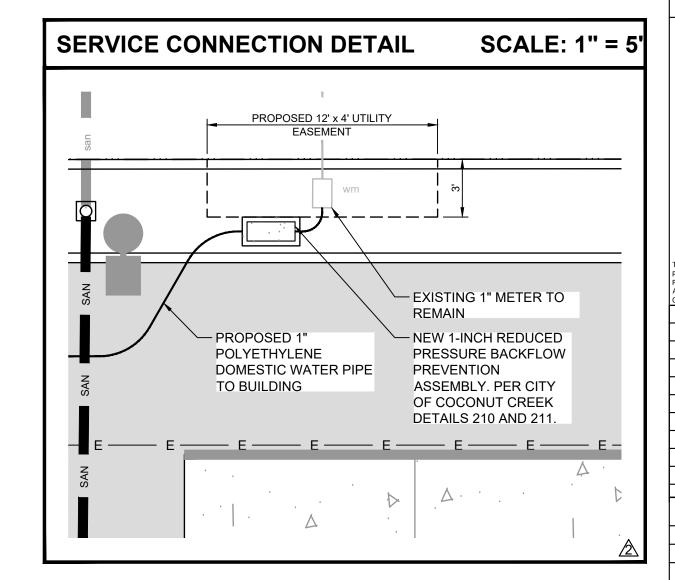
REQUIREMENTS)

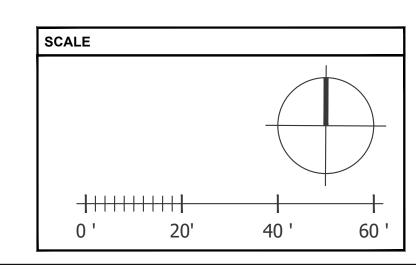
- NOTE: PLAN HAS BEEN PROVIDED PER THE FLORIDA FIRE PREVENTION CODE, 8TH EDITION.
- CONSTRUCTION TYPE: VB (PER FBC 7TH EDITION (2020) TABLE 601)
- MAXIMUM FIRE FLOW REQUIRED: 1,500 GPM FOR 2 HOURS



UTILITY NOTES

- CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES WITHIN THE LIMITS OF CONSTRUCTION AND ADVISE THE ENGINEER OF RECORD OF ANY CONFLICTS IMMEDIATELY.
- 2. CONTRACTOR SHALL NOTIFY AND COORDINATE WATER SERVICE WITH LOCAL MUNICIPALITIES UTILITIES DEPARTMENT.
- . CONTRACTOR SHALL NOTIFY AND COORDINATE SEWER SERVICE WITH LOCAL MUNICIPALITIES UTILITIES DEPARTMENT.
- 4. CONTRACTOR TO COORDINATE INSTALLATION OF ELECTRICAL POWER SERVICE WITH LOCAL ELECTRIC COMPANY.
- 5. CONTRACTOR TO INSTALL PVC CONDUIT FOR TELEPHONE SERVICE (TO PROPERTY LINE) AND COORDINATE INSTALLATION OF SERVICE WITH TELEPHONE OPERATIONS.
- 6. SEE SURVEY FOR LOCATION OF OTHER EXISTING UTILITIES.
- SEE CIVIL SPECIFICATIONS AND REFERENCE DRAWING SHEETS FOR ADDITIONAL UTILITY NOTES.
- 8. ALL ON-SITE PVC WATER SERVICE AFTER METER SHALL BE SCHEDULE 80 OR PRESSURE RATED HDPE (POLY PIPE).
- 9. ALL CROSSINGS OF WATER AND SEWER LINES MUST MAINTAIN PROPER CLEARANCE (SEE CIVIL SPECIFICATIONS AND REFERENCE DRAWING SHEETS).
- 10. CONTRACTOR IS RESPONSIBLE FOR COMPLYING TO THE SPECIFICATIONS OF THE CITY/TOWNS STANDARD CONSTRUCTION AND UTILITY REQUIREMENTS.
- 11. TREES SHALL NOT BE PLANTED WITHIN 10 FEET FROM THE WATER MAIN.
- 12. ALL CLEANOUT TOP ELEVATION SHALL MATCH FINISH GRADE ELEVATIONS.





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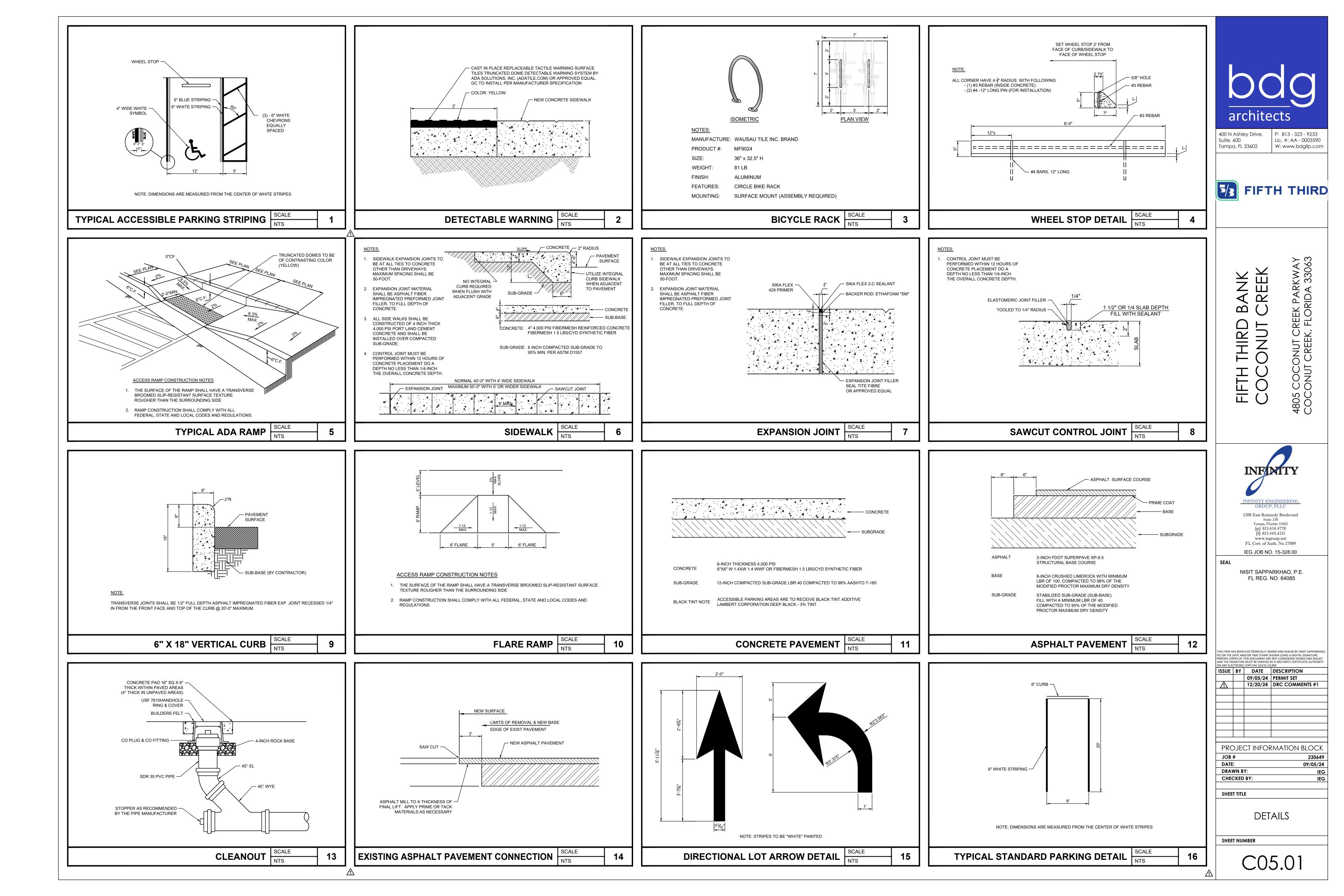
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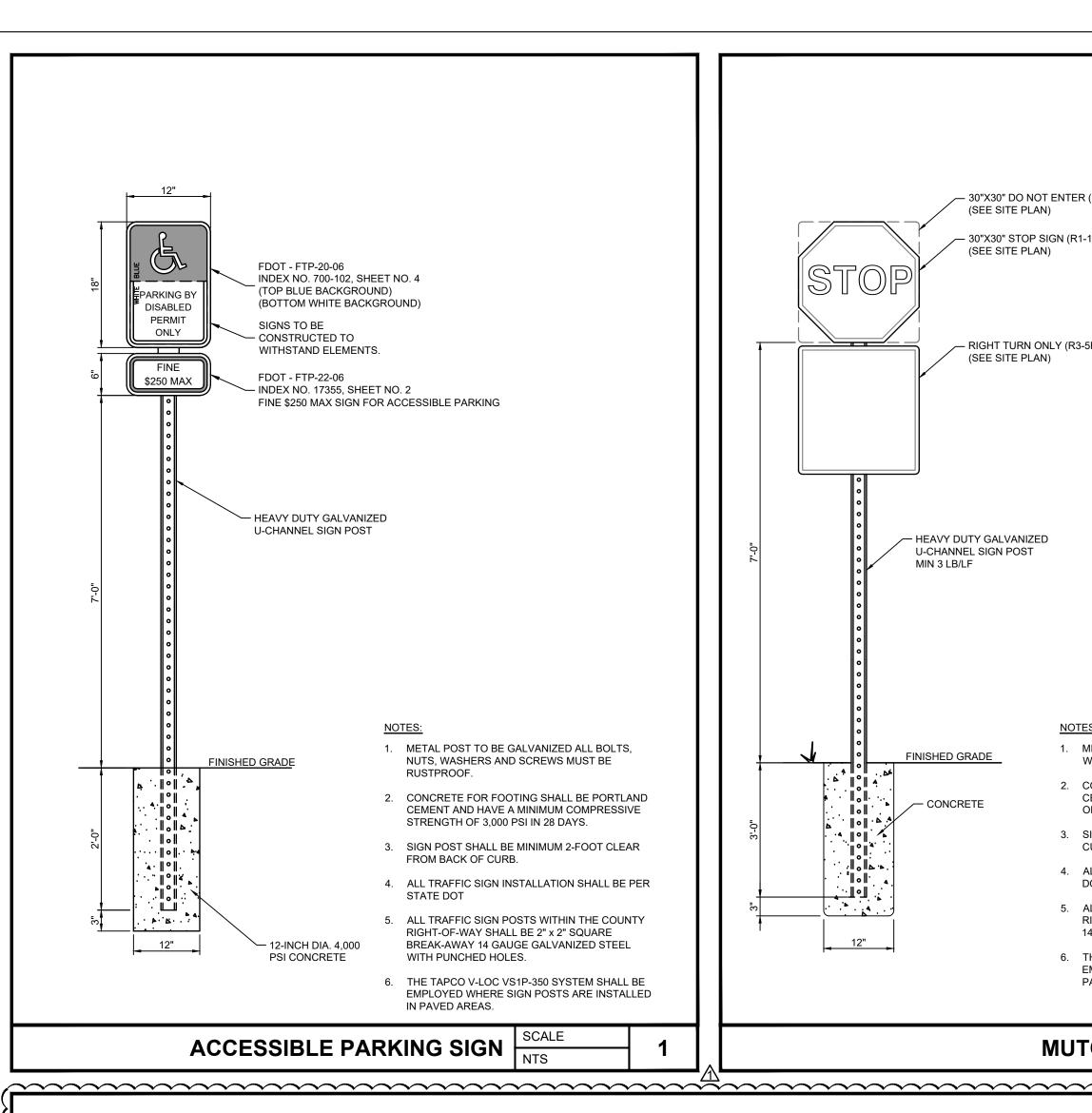
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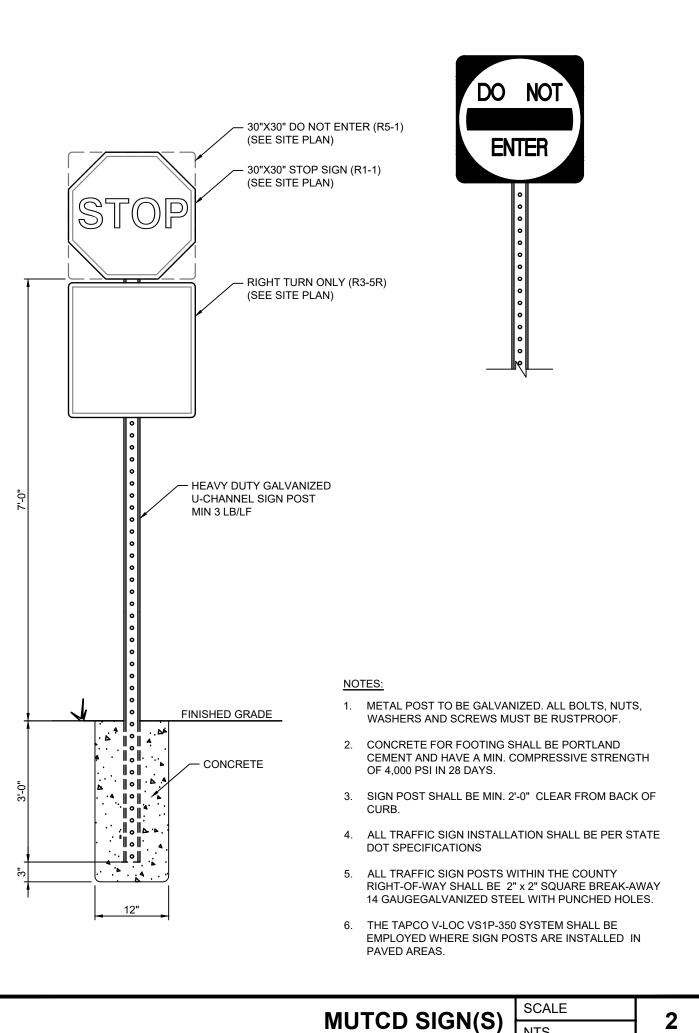
UTILITY PLAN

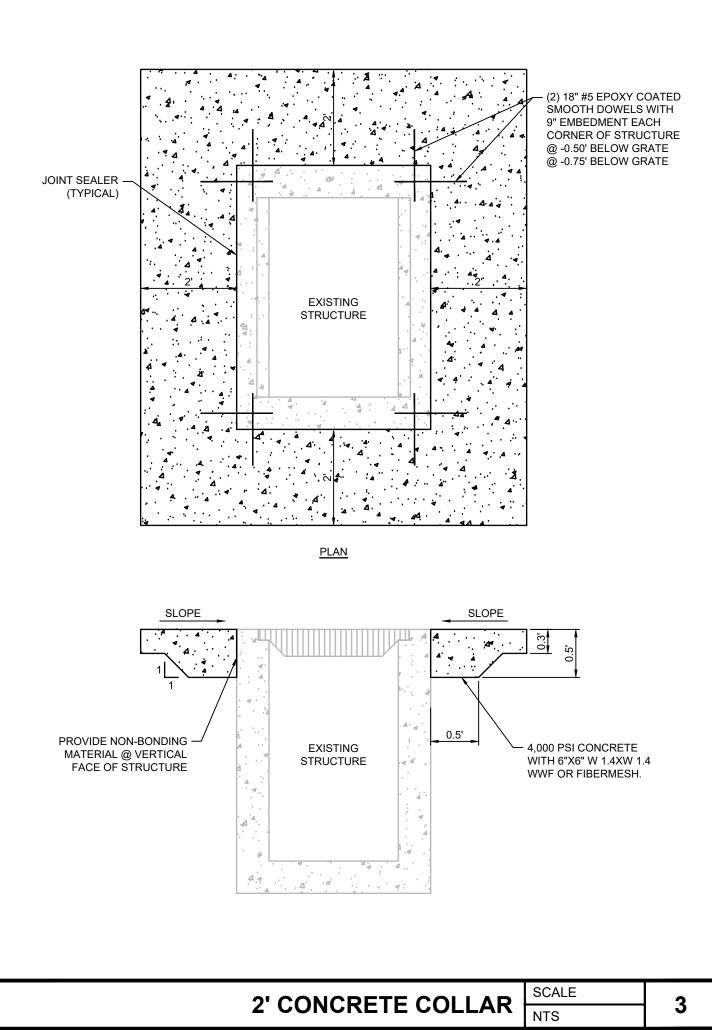
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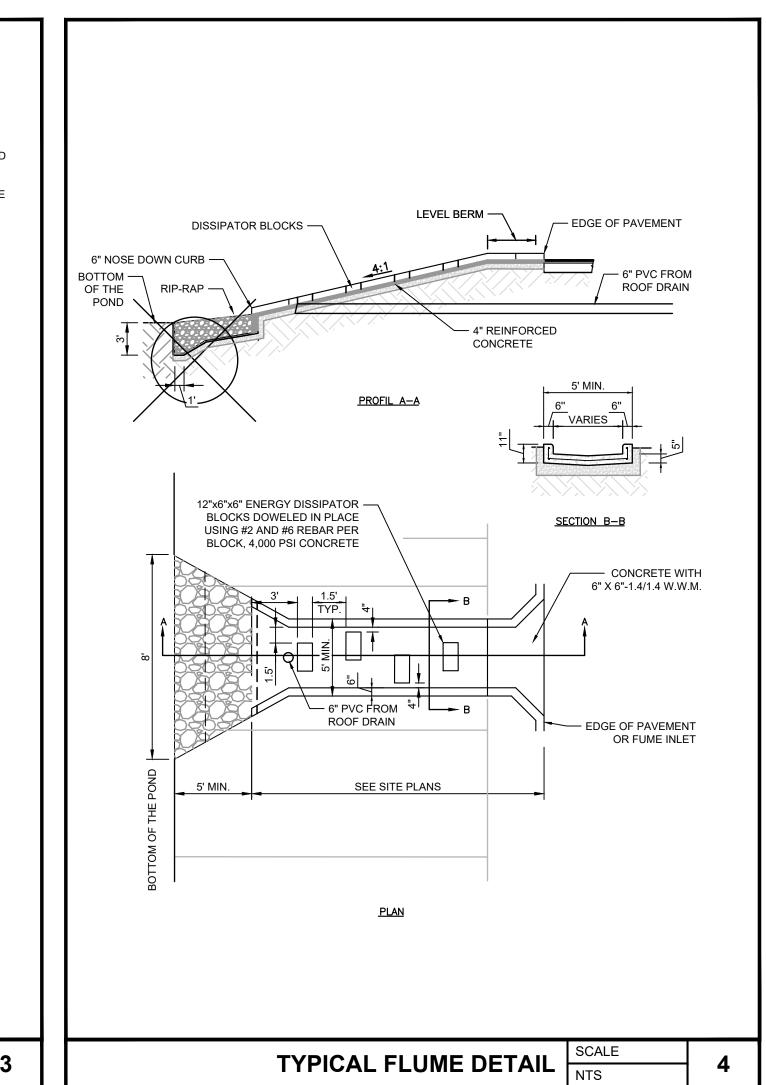
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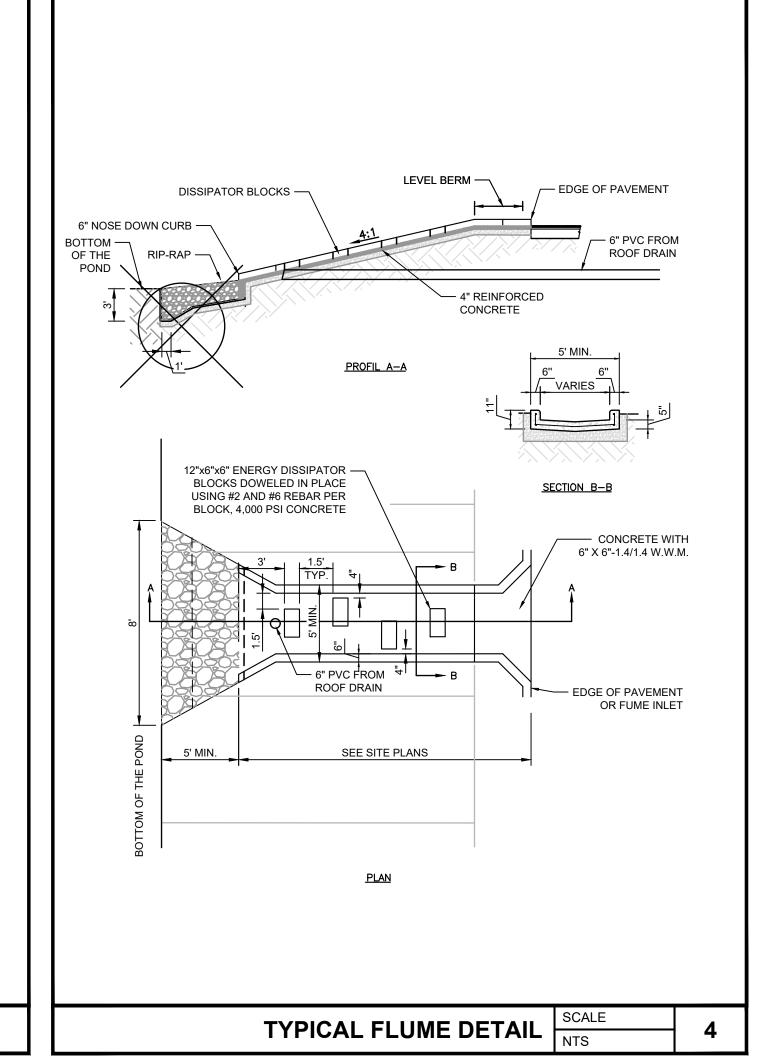


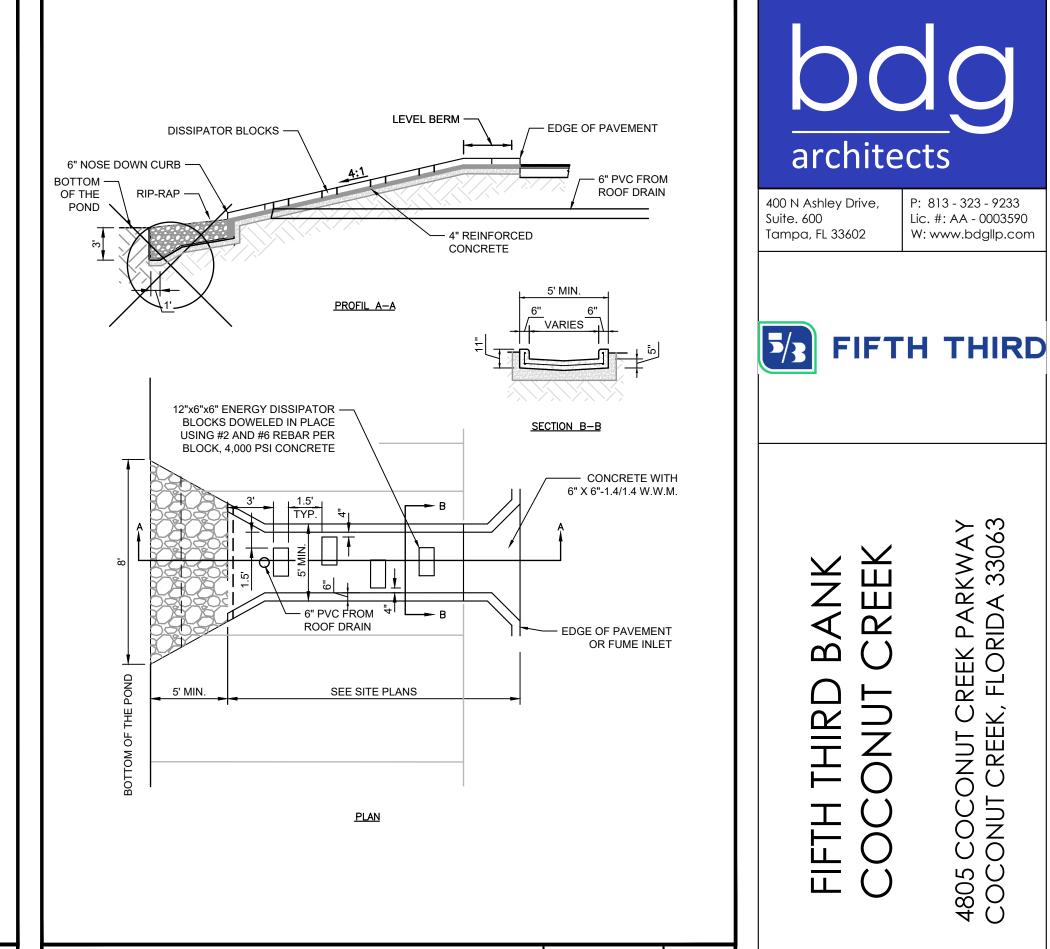


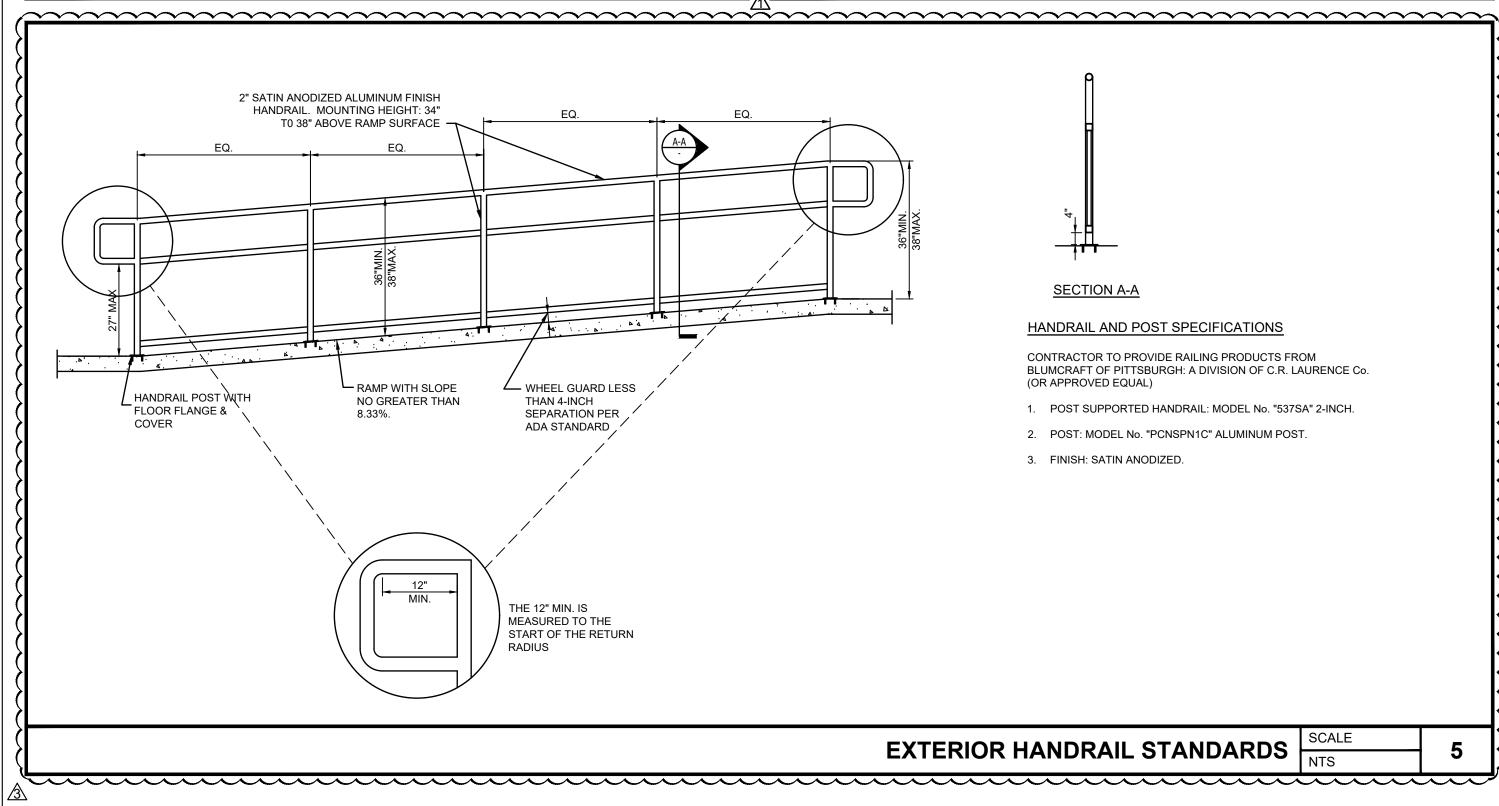


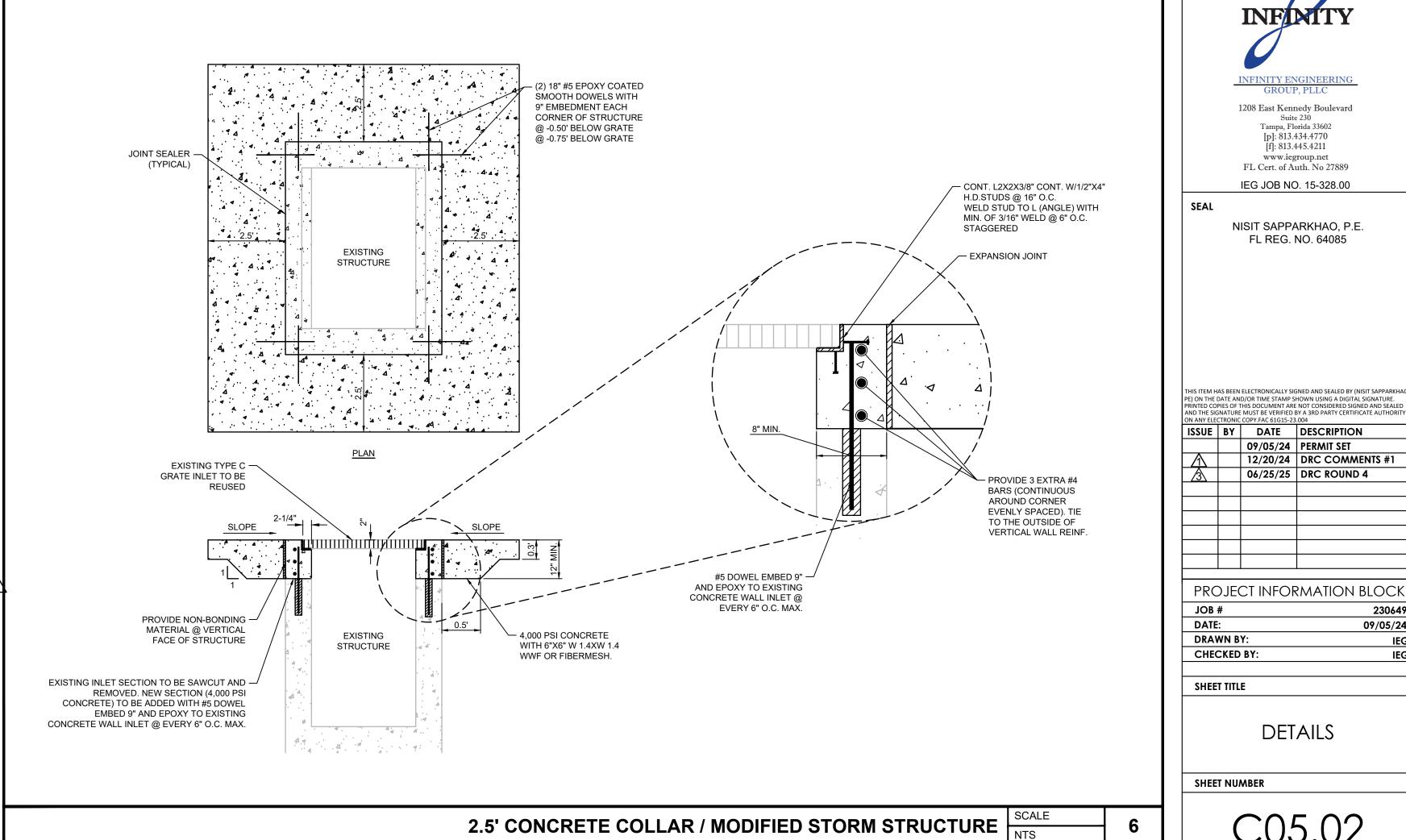


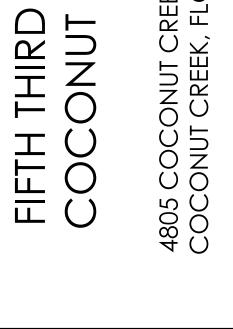












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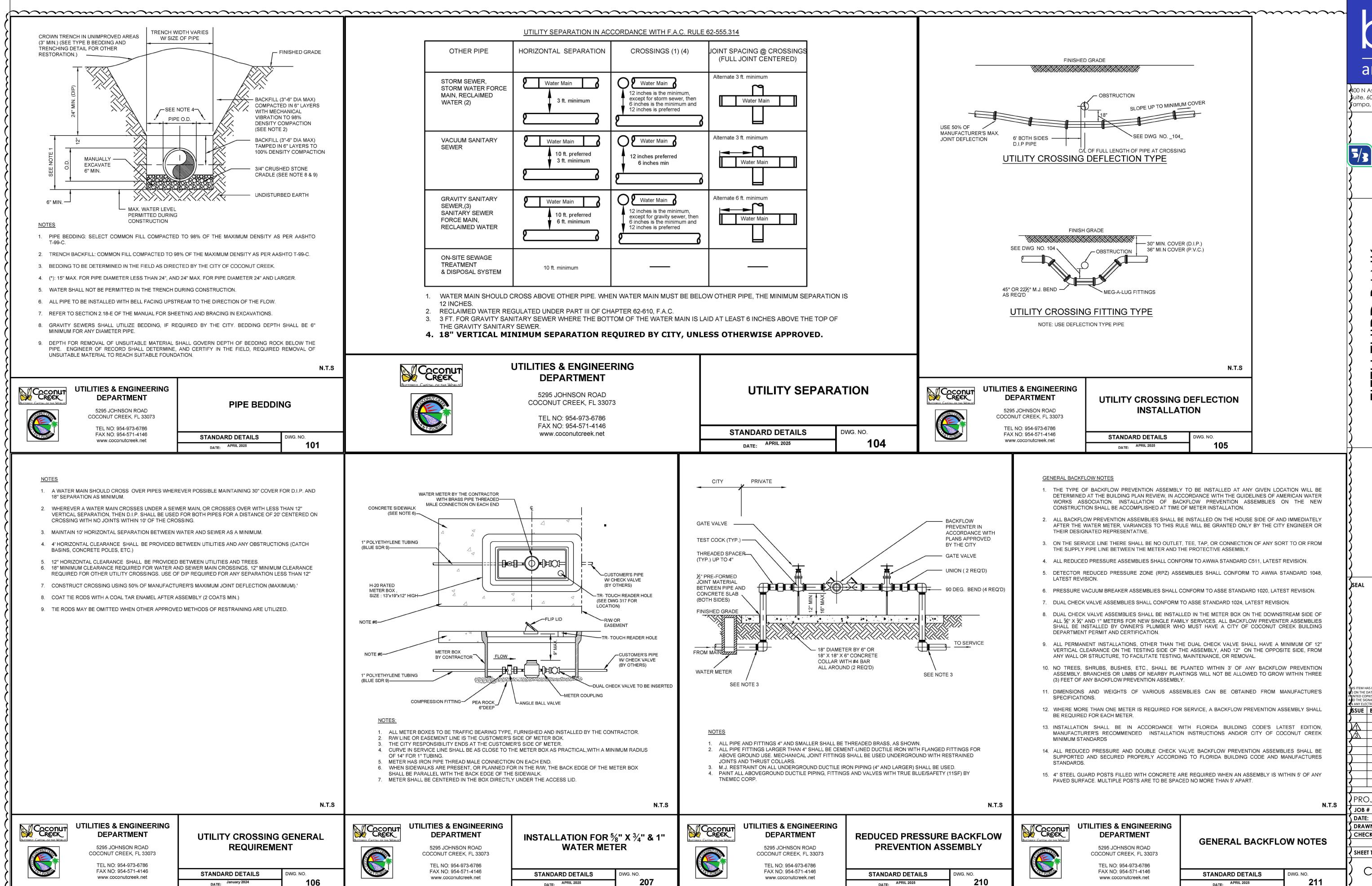
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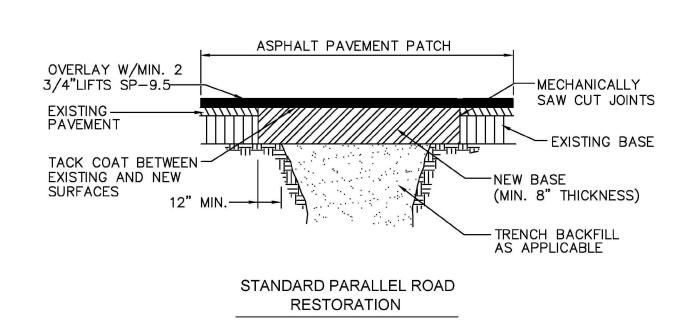
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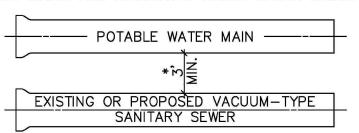
COCONUT CREEK



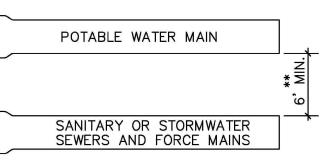
SURFACE RESTORATION

POTABLE WATER MAIN REUSE WATER MAIN OR STORMWATER **SEWERS**

A MINIMUM HORIZONTAL SEPARATION 3' (OUTSIDE TO OUTSIDE). SHALL BE MAINTAINED BETWEEN POTABLE WATER MAINS AND STORMWATER SEWERS, STORMWATER FORCE MAINS AND REGULATED REUSE WATER MAINS.



A MINIMUM HORIZONTAL SEPARATION 3' (OUTSIDE TO OUTSIDE), SHALL BE MAINTAINED BETWEEN EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER. *SEE NOTE D(1)(B) ON DWG



A MINIMUM HORIZONTAL SEPARATION OF 6' (OUTSIDE TO OUTSIDE), SHALL BE MAINTAINED BETWEEN POTABLE WATER MAINS AND EXISTING OR PROPOSED GRAVITY-OR PRESSURE TYPE SANITARY SEWER, WASTEWATER FORCE MAIN OR NOT REGULATED REUSE WATER MAIN. ** SEE NOTE D(1)(C) ON DWG 318.

MINIMUM HORIZONTAL SEPERATION REQUIREMENTS FOR POTABLE WATER REUSE, STORMWATER AND SEWER LINES

N.T.S

PROTECTION OF POTABLE WATER SUPPLY NOTES

A. GENERAL

IN ADDITION TO THESE REQUIREMENTS, ALL POTABLE WATER MAINS CONSTRUCTED IN THE VICINITY OF STORM SEWERS, SANITARY SEWERS OR FORCE MAINS SHALL COMPLY WITH THE APPLICABLE PROVISIONS OF FLORIDA ADMINISTRATIVE CODE CHAPTER 62-555, GREAT LAKES-UPPER MISSISSIPPI RIVER BOARD OF STATE SANITARY ENGINEERS (GLUMRB) "RECOMMENDED STANDARDS FOR WATER WORKS", AND GLUMRB "RECOMMENDED STANDARDS FOR WASTEWATER FACILITIES".

B. DEFINITIONS

FOR THE PURPOSES OF THIS SPECIFICATION, THE WORDS "OTHER PIPE" OR "OTHER PIPES" SHALL MEAN SANITARY SEWER MAIN, SEWAGE FORCE MAIN, STORMWATER MAIN OR ANY COMBINATION

C. CROSS CONNECTIONS PROHIBITED

THERE SHALL BE NO PHYSICAL CONNECTIONS BETWEEN A PUBLIC OR PRIVATE POTABLE WATER SUPPLY SYSTEM AND ANY OTHER PIPE OR APPURTENANCE THERETO WHICH WOULD PERMIT THE PASSAGE OF ANY WASTEWATER, POLLUTED WATER, OR ANY OTHER WATER INTO THE POTABLE SUPPLY. NO WATER PIPE SHALL PASS THROUGH OR COME INTO CONTACT WITH ANY PART OF A SANITARY SEWER M.A.S. (Maintenance Access Structure) OR STORMWATER MAS

D. RELATION OF OTHER PIPES TO POTABLE WATER M.A.S.

1. HORIZONTAL SEPARATION

- A. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED STORM WATER, OR PIPELINE CONVEYING REUSE WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C
- B. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY
- C. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SIX FEET, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY-OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING REUSE WATER NOT REGULATED UNDER CHAPTER 62-610, F.A.C. THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND GRAVITY TYPE SEWERS SHALL BE REDUCED TO THREE FEET WHERE THE BOTTOM OF THE WATER IS LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER.

N.T.S

UTILITIES & ENGINEERING DEPARTMENT

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FAX NO: 954-571-4146

www.coconutcreek.net

SURFACE RESTORATION

STANDARD DETAILS

N.T.S

308

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MINIMUM HORIZONTAL SEPARATION REQUIREMENTS FOR POTABLE WATER, REUSE, STORMWATER AND COCONUT CREEK, FL 33073 **SEWER LINES** TEL NO: 954-973-6786

STANDARD DETAILS



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UTILITY CROSSINGS

STANDARD DETAILS 317

-CENTER A FULL 20' LENGTH OF

PIPE AT POINT OF CROSSING

SLOPE TO MIN. COVER

SPECIAL UTILITY CROSSING - FITTING TYPE

* 12" MINIMUM CLEARANCE REQUIRED FOR PRESSURE TYPE SANITARY SEWER

CANNOT BE OBTAINED. REFER TO "PROTECTION OF POTABLE WATER

SEWER MAIN CROSSINGS. SEE NOTE 2(A), ON DWG NO. 319

SUPPLY" FOR WATER MAIN CROSSINGS.

SEE NOTE 2(B), ON DWG NO. 319

SEE NOTE NO. 2(C

ON DWG NO. 319

WASTEWATER OR REUSE WATER MAIN CROSSINGS. IF MINIMUM CLEARANCE

6" MINIMUM CLEARANCE REQUIRED FOR WATER AND STORMWATER, GRAVITY

STANDARD UTILITY CROSSING - DEFLECTION TYPE

POSSIBLE. ONLY UNDER SPECIFIC ORDERS BY THE

OF MANUFACTURERS' MAXIMUM JOINT DEFLECTION.

UTILITY CROSSINGS

3. FOR POTABLE WATER MAINS, REFER TO "PROTECTION

OF POTABLE WATER SUPPLY".

THE DEFLECTION TYPE CROSSING SHALL BE USED WHEREVER

ENGINEER SHALL THE FITTING TYPE CROSSIING BE ALLOWED.

2. CONSTRUCT STANDARD CROSSING USING NO MORE THAN 50%

Coconut CREEK

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PROTECTION OF POTABLE WATER **SUPPLY NOTES**

STANDARD DETAILS 318

INFINITY

INFINITY ENGINEERING GROUP, PLLC

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If1: 813.445.4211

www.iegroup.net

FL Cert. of Auth. No 27889

IEG JOB NO. 15-328.00

NISIT SAPPARKHAO, P.E.

FL REG. NO. 64085

S ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY (NISIT SAPPARKH) ON THE DATE AND/OR TIME STAMP SHOWN USING A DIGITAL SIGNATURE.

THE SIGNATURE MUST BE VERIFIED BY A 3RD PARTY CERTIFICATE AUTHORIT

09/05/24 | PERMIT SET

12/20/24 DRC COMMENTS #1

06/25/25 DRC ROUND 4

SSUE BY DATE DESCRIPTION

4805 COC

architects

P: 813 - 323 - 9233

Lic. #: AA - 0003590

W: www.bdgllp.com

FIFTH THIRD

00 N Ashley Drive,

ampa, FL 33602

uite. 600

ALL PARTS OF ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM".

VERTICAL SEPARATION A. NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY-OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES, PREFERABLY 12 INCHES, ABOVE OR AT LEAST 12 INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.

HORIZONTAL DISTANCE OF AT LEAST TEN FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND

D. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A

NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER, OR PIPELINE CONVEYING REUSE WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES, ABOVE OR BELOW, THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.

C. AT THE UTILITY CROSSINGS DESCRIBED IN PARAGRAPHS (A) AND (B) ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, OR PIPELINES CONVEYING REUSE WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY- OR PRESSURE- TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING REUSE WATER NOT REGULATED UNDER PART III OR CHAPTER 62-610, F.A.C.

WHERE THE HORIZONTAL CAN BEING LOCATED LESS THAT THE REQUIRED MINIMUM DISTANCES FROM JOINTS IN THE OTHER PIPELINE OR THE HORIZONTAL IS LESS THAN THREE FEET FROM ANOTHER PIPELINE OR THE UNDER GROUND WATER MAIN IS CROSSING ANOTHER PIPELINE AND IS LESS THAN THE REQUIRED MINIMUM VERTICAL DISTANCE FROM THE OTHER PIPELINE, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY FOR RECOMMENDED SOLUTIONS TO MEET THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION REQUIREMENTS PER CHAPTER 62-555, F.A.C.

APPROVED PRODUCT LIST

Valve Boxes Valve boxes shall either be a Tyler or Turnbull riser specified or an & Risers: approved equal which shall meet the following standards:

- The gap between the cover/lid and the ring that is visible when installed must be no greater than 0.11 inches.
- The wall thickness of the ring that encircles the cover/lid shall have a wall thickness of no less than 0.65 inches.
- The valve box top section shall weigh no less than 22 pounds.
- The valve box bottom section shall weigh no less than 27 pounds.
- The valve box lid shall weigh no less than 11 pounds.
- The 1" riser shall weight 6 pounds, 2" 9.5 pound, 3" 14 pounds and 4" 20 pounds.
- The valve box lid shall be a locking design with two indentations to allow for easy removal.
- The brand of valve box bid shall have an option extension kit. The weight of the extension kits shall be +/- 29 lbs for 14 inches, +/ 30 lbs for 18 inches and +/- 37 lbs for 24 inches.
- Recognizing that some manufacturers may make conforming and non-conforming boxes, or risers. Vendors bidding such a manufacturer are advised to avoid shipping the incorrect part. The City reserves the right to return *at any time* any box delivered that is non-conforming. If the non-conforming box was installed, the vendor will be responsible for the cost of removal and installation of the conforming box. Depending on the severity and frequency of this type of oversight bidders may be restricted from future bids.

DIP Fittings: Mega lugs and their accessory kits shall be as manufactured by EBAA Iron, Inc. or an approved equal which shall meet the following

- Each gland shall include one mechanical restraining gland as manufactured by EBAA Iron, Inc, Series 1100, or equal, sacrificial zinc anode hex head caps of one - half of the number of T- head bolts in each gland pack, one rubber gasket and the proper number of T - head bolts and nuts for the mechanical joint sizes shown
- For sizes 4 to 12 inches, package all gland materials to make one joint and mark each package to specify its weight and contents.
- Each gland shall be clearly marked with a "batch serial number". The "batch serial number" will allow the utility to identify the date of manufacture, plant and identify what ladle of metal was used to cast the gland. The vendor must be able to provide metallurgical reports for any specific gland based on the "batch serial number" that must be cast into the gland. The "batch serial number" must not be encoded and easily converted using common methods, such as the Julian Day.
- Each restraining gland shall have the following weights and have no less than the number wedges listed below. All wedges will be "auto - torquing" or designed such that the nut on the actuating bolt will separate at the manufacturers intended torque for to properly set the wedge. After being set, the actuating bolts will have a smaller remaining head that will allow for the disassembly of the joint.

Size	Minimum Weight	Number of Wedges	3/4" Bolt Length
4	7	2	4
6	12	3	4
8	16	3	4.5
10	24	6	4.5
12	33	8	4.5

• The restraining gland shall be properly prepared and coated with a TGIC polyester - based coating. The gripping wedges and actuating bolts shall be properly prepared and coated with a Xylan Flourpolymer coating.

Offsets, Couplings etcetera shall be as manufactured by **Tyler Products** or an approved equal which shall meet the following standards:

The equivalent to the ELLS, 45, offsets, couplings, etcetra that are called for in various bids shall be the Tyler Product line. Equivalents shall have the same dimensions, bolt counts and certifications as the Tyler product line.

Flange Adapters shall be as manufactured by Uniflang or EZ Flange or an approved equal which shall meet the following standards:

- Each fitting shall be clearly marked with a "batch serial number. The "batch serial number" will allow the utility to identify the date of manufacture, plant and identify what ladle of metal was used to cast the gland. The vendor must be able to provide metallurgical reports for any specific fitting based on the "batch serial number" that must be cast into the gland. The "batch serial number" must not be encoded and easily converted using common methods, such as the Julian Day.
- Each restraining fitting shall have the weights listed below.
- Set bolts will be "auto torquing" or designed such that the nut on the actuating bolt will separate at the manufacturers intended torque for to properly set the wedge. After being set, the actuating bolts will have a smaller remaining head that will allow for the disassembly of the joint.

Size	Minimum Weight
4	6.3
6	8.8
8	12.9
10	23.1
12	29.5

• The fitting shall be properly prepared and coated with a TGIC polyester - based coating. The gripping wedges and actuating bolts shall be properly prepared and coated with a Xylan Flourpolymer coating.

N.T.S

333

PROJECT INFORMATION BLOCK

JOB# 230649 DATE: 09/05/24 DRAWN BY: CHECKED BY:

SHEET TITLE **COCONUT CREEK**

SHEET NUMBER

COCONUT CREEK

UTILITIES & ENGINEERING DEPARTMENT

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PROTECTION OF POTABLE WATER **SUPPLY NOTES**

STANDARD DETAILS DWG. NO. 319

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APPROVED PRODUCT LIST

STANDARD DETAILS

331

N.T.S

DWG. NO.

UTILITIES & ENGINEERING COCONUT CREEK **DEPARTMENT** 5295 JOHNSON ROAD

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APPROVED PRODUCT LIST

STANDARD DETAILS

DWG. NO. 332

N.T.S

UTILITIES & ENGINEERING COCONUT CREEK DEPARTMENT 5295 JOHNSON ROAD

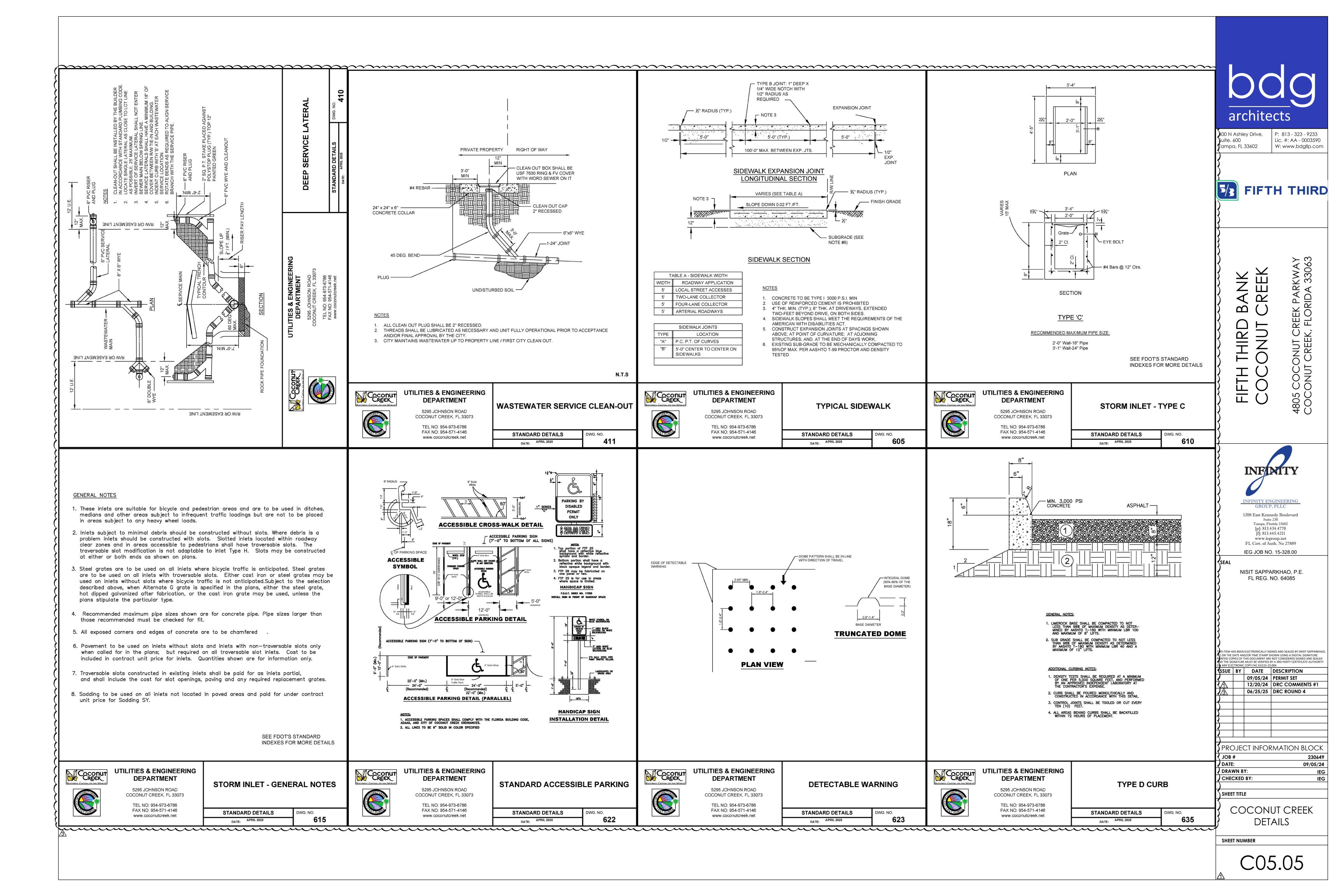
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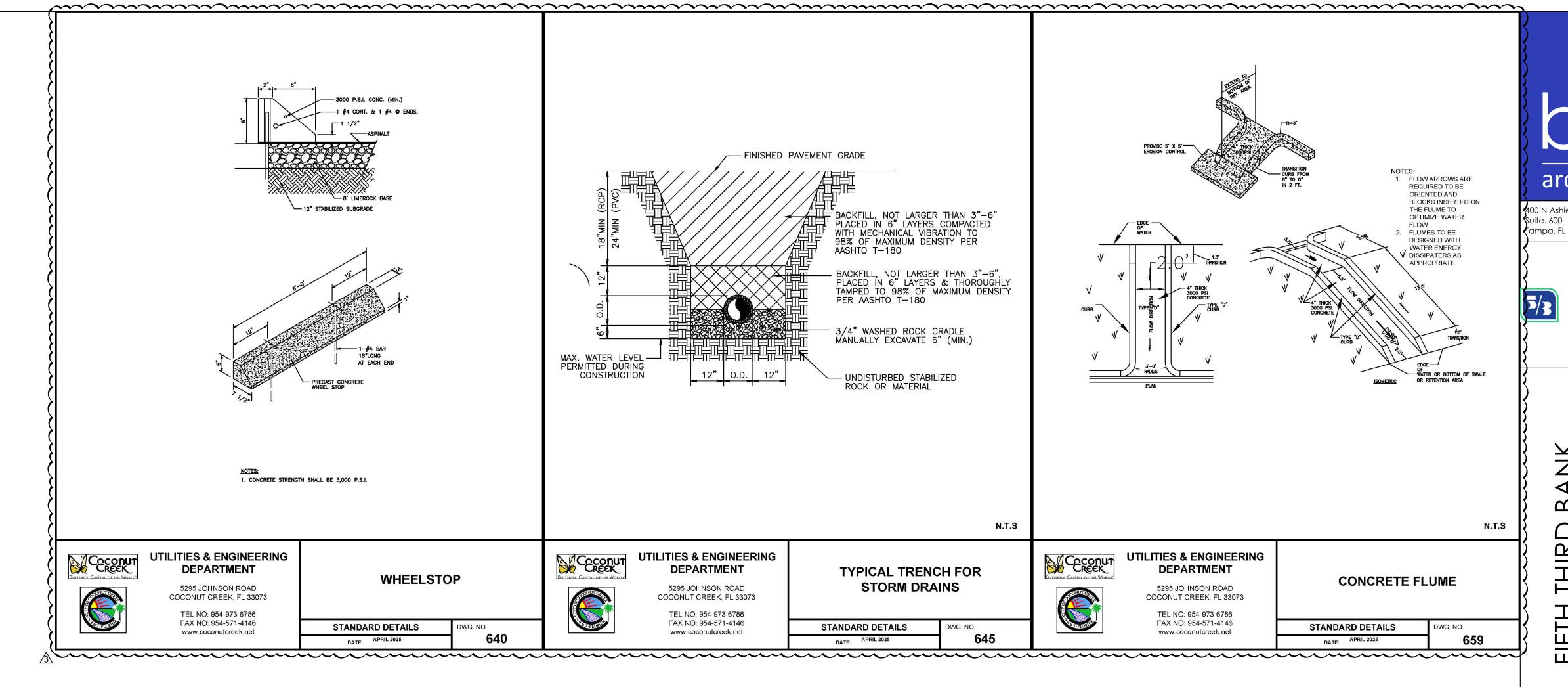
APPROVED PRODUCT LIST

STANDARD DETAILS DWG. NO.

C05.04

DETAILS







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IEG JOB NO. 15-328.00

NISIT SAPPARKHAO, P.E. FL REG. NO. 64085

ISSUE	BY	DATE	DESCRIPTION
		09/05/24	PERMIT SET
Λ		12/20/24	DRC COMMENTS #1
2		04/28/25	DRC ROUND 3
3		06/25/25	DRC ROUND 4
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JOB	#		230649
			00/05/04

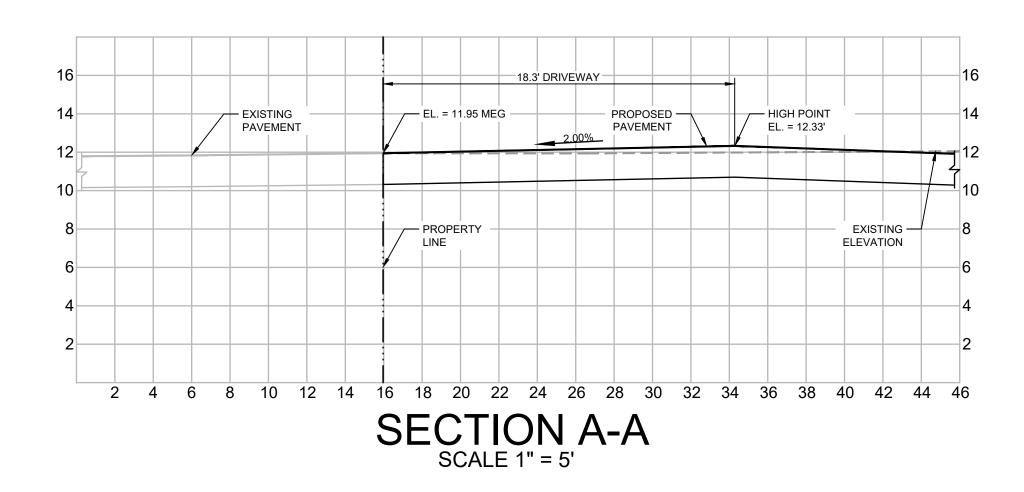
09/05/24 DATE: DRAWN BY: CHECKED BY:

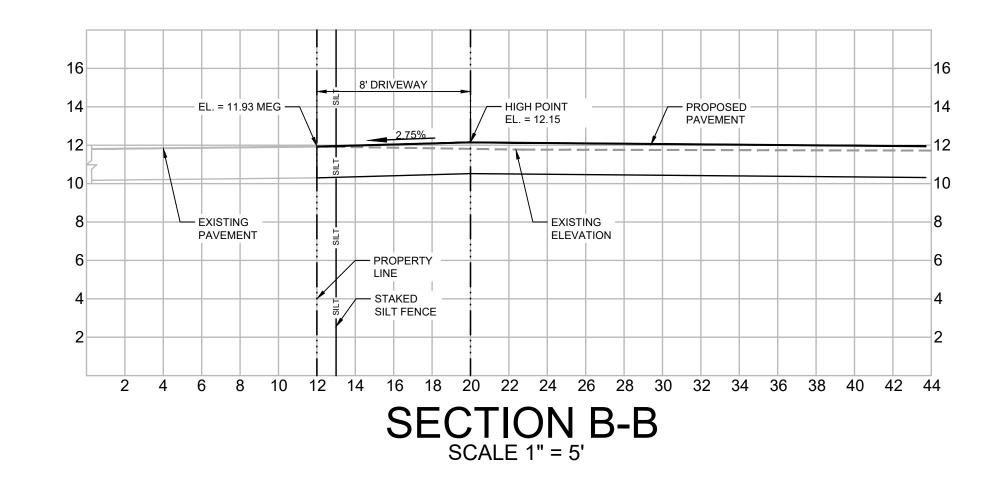
SHEET TITLE

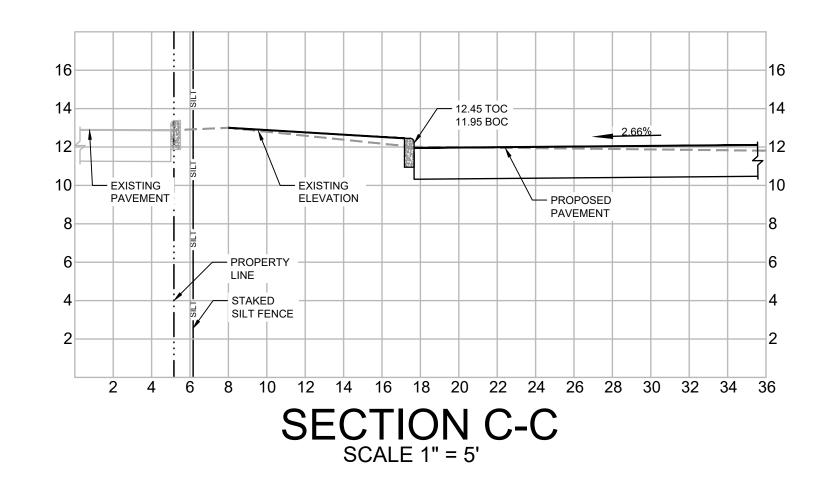
COCONUT CREEK DETAILS

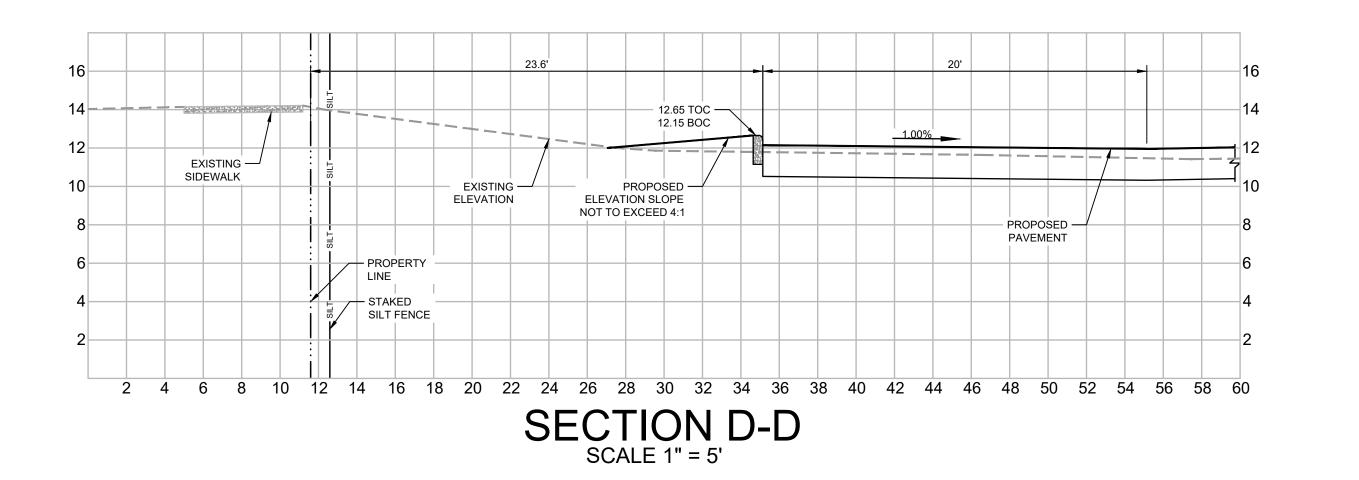
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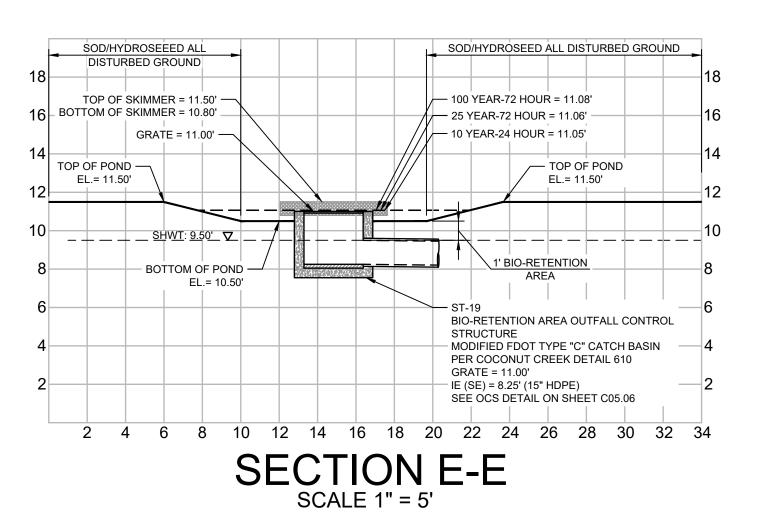
C05.06













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PROJECT INFORMATION BLOCK JOB#

DATE: DRAWN BY: CHECKED BY:

SHEET TITLE

CROSS SECTIONS

SHEET NUMBER

C05.07

230649

09/05/24

THIS PLAN UTILIZES BEST MANAGEMENT PRACTICES TO CONTROL EROSION AND TURBIDITY CAUSED BY STORMWATER RUN OFF. AN EROSION AND TURBIDITY PLAN HAS BEEN PREPARED TO INSTRUCT THE CONTRACTOR ON PLACEMENT OF THESE CONTROLS. IT IS THE CONTRACTORS RESPONSIBILITY TO INSTALL AND MAINTAIN THE CONTROLS PER PLAN AS WELL AS ENSURING THE PLAN IS PROVIDING THE PROPER PROTECTION AS REQUIRED BY FEDERAL, STATE AND LOCAL LAWS. REFEI TO "CONTRACTORS RESPONSIBILITY" FOR A VERBAL DESCRIPTION OF THE CONTROLS THAT MAY BE IMPLEMENTED.

STORMWATER MANAGEMENT

STORMWATER DRAINAGE WILL BE PROVIDED BY (DESCRIPTION:)

MODIFIED COLLECTION, CONVEYANCE, TREATMENT & ATTENUATION SYSTEM FOR THE PROJECT. AREAS WHICH ARE NOT TO BE CONSTRUCTED ON, BUT WILL BE REGRADED SHALL BE STABILIZED IMMEDIATELY AFTER GRADING IS COMPLETE. WHEN CONSTRUCTION IS COMPLETE. THE SITE DISCHARGES TO AN UNDERGROUND DETENTION SYSTEM, WHERE PRACTICAL, TEMPORARY SEDIMENT BASINS WILL BE USED TO INTERCEPT SEDIMENT BEFORE ENTERING THE PERMANENT DETENTION BASIN. THE DRY DETENTION SYSTEM IS DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION FOR THIS TYPE OF DEVELOPMENT AT THE TIME IT WAS CONSTRUCTED.

TIMING OF CONTROLS/MEASURES

REFER TO "CONTRACTORS RESPONSIBILITY" FOR THE TIMING OF CONTROL/MEASURES.

CONTROLS

THE EROSION & TURBIDITY CONTROL PLAN.

STABILIZED. THE ACCUMULATED SEDIMENT WILL BE REMOVED

FROM THE SEDIMENT TRAPS AND THE EARTH DIKE/SWALES WILL

BE REGRADED/REMOVED AND STABILIZED IN ACCORDANCE WITH

IT IS THE CONTRACTORS RESPONSIBILITY TO IMPLEMENT THE EROSION AND TURBIDITY CONTROLS AS SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN. IT IS ALSO THE CONTRACTORS RESPONSIBILITY TO ENSURE THESE CONTROLS ARE PROPERLY INSTALLED, MAINTAINED AND FUNCTIONING PROPERLY TO PREVENT TURBID OR POLLUTED WATER FROM LEAVING THE PROJECT SITE. THE CONTRACTOR WILL ADJUST THE EROSION AND TURBIDITY CONTROLS SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN AND ADD ADDITIONAL CONTROL MEASURES, AS REQUIRED, TO ENSURE THE SITE MEETS ALL FEDERAL, STATE AND LOCAL EROSION AND TURBIDITY CONTROL REQUIREMENTS. THE FOLLOWING BEST MANAGEMENT PRACTICES WILL BE IMPLEMENTED BY THE CONTRACTOR AS REQUIRED BY THE EROSION AND TURBIDITY CONTROL PLAN AND AS REQUIRED TO MEET THE EROSION AND TURBIDITY REQUIREMENTS IMPOSED ON THE PROJECT SITE BY THE REGULATORY AGENCIES.

SPILL PREVENTION

MATERIAL MANAGEMENT PRACTICES

THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORMWATER RUNOFF.

GOOD HOUSEKEEPING

THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ONSITE DURING THE CONSTRUCTION PROJECT.

* AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.

* ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS

AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.

* PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS THE ORIGINAL MANUFACTURER'S LABEL.

* SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS

RECOMMENDED BY THE MANUFACTURER. * WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP

BEFORE DISPOSING OF THE CONTAINER. * MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND

THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE MATERIALS ONSITE RECEIVE PROPER USE AND DISPOSAL.

DISPOSAL WILL BE FOLLOWED.

- PLAN WHICH DEMONSTRATES THAT OPENING OF ADDITIONAL AREAS WILL NOT SIGNIFICANTLY AFFECT OFF-SITE DEPOSIT OF SEDIMENTS.
- INLET PROTECTION: INLETS AND CATCH BASINS WHICH DISCHARGE DIRECTLY OFF-SITE SHALL BE PROTECTED FROM SEDIMENT-LADEN STORM RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SEDIMENT TO THE INLET.
- TEMPORARY SEEDING: AREAS OPENED BY CONSTRUCTION OPERATIONS AND THAT ARE NOT ANTICIPATED TO BE RE-EXCAVATED OR DRESSED AND RECEIVE FINAL GRASSING TREATMENT WITHIN 30 DAYS SHALL BE SEEDED WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED AND WILL NOT LATER COMPETE WITH THE PERMANENT GRASSING.
- TEMPORARY SEEDING AND MULCHING: SLOPES STEEPER THAN 6:1 THAT FALL WITHIN THE CATEGORY ESTABLISHED IN PARAGRAPH 8 ABOVE SHALL ADDITIONALLY RECEIVE MULCHING OF APPROXIMATELY 2 INCHES LOOSE MEASURE OF MULCH MATERIAL CUT INTO THE SOIL OF THE SEEDED AREA ADEQUATE TO PREVENT MOVEMENT OF SEED AND MULCH.
- 10. TEMPORARY GRASSING: THE SEEDED OR SEEDED AND MULCHED AREA(S) SHALL BE ROLLED AND WATERED OR HYDROMULCHED OR OTHER SUITABLE METHODS IF REQUIRED TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER. TEMPORARY GRASSING SHALL BE THE SAME MIX & AMOUNT REQUIRED FOR PERMANENT GRASSING IN THE CONTRACT SPECIFICATIONS.
- TEMPORARY REGRASSING: IF, AFTER 14 DAYS FROM SEEDING, THE TEMPORARY GRASSED AREAS HAVE NOT ATTAINED A MINIMUM OF 75 PERCENT GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED VEGETATIVE COVER.
- MAINTENANCE: ALL FEATURES OF THE PROJECT DESIGNED AND CONSTRUCTED TO PREVENT EROSION AND SEDIMENT SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION AS THEY WERE ORIGINALLY DESIGNED AND CONSTRUCTED.
- PERMANENT EROSION CONTROL: THE EROSION CONTROL FACILITIES OF THE PROJECT SHOULD BE DESIGNED TO MINIMIZE THE IMPACT ON THE OFFSITE FACILITIES.
- PERMANENT SEEDING: ALL AREAS WHICH HAVE BEEN DISTURBED BY CONSTRUCTION WILL, AS A MINIMUM, BE SEEDED. THE SEEDING MIX MUST PROVIDE BOTH LONG-TERM VEGETATION AND RAPID GROWTH SEASONAL VEGETATION. SLOPES STEEPER THAN 4:1 SHALL BE SEEDED AND MULCHED OR SODDED.

WASTE MATERIALS ALL WASTE MATERIALS EXCEPT LAND CLEARING DEBRIS SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS. THE DUMPSTER WILL BE EMPTIED AS NEEDED AND THE TRASH WILL BE HAULED TO A STATE APPROVED LANDFILL. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED AT THE CONSTRUCTION SITE BY THE CONSTRUCTION SUPERINTENDENT. THE INDIVIDUAL WHO MANAGES THE DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES AND THE SITE SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE

ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NEEDED TO PREVENT POSSIBLE SPILLAGE. THE WASTE WILL BE COLLECTED AND DEPOSED OF IN ACCORDANCE WITH STATE AND LOCAL WASTE DISPOSAL REGULATIONS FOR SANITARY SEWER OR SEPTIC SYSTEMS.

A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEPT DAILY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPAULIN.

INVENTORY FOR POLLUTION PREVENTION PLAN

SITE. THE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED TO SPILL CONTROL PRACTICES

	Wood
oducts	Masonry Blocks
	Roofing Materials
	Metal Studs

STRUCTURAL PRACTICES

- TEMPORARY DIVERSION DIKE: TEMPORARY DIVERSION DIKES MA BE USED TO DIVERT RUNOFF THROUGH A SEDIMENT-TRAPPING
- TEMPORARY SEDIMENT TRAP: A SEDIMENT TRAP SHALL BE INSTALLED IN AN DRAINAGEWAY AT A STORM DRAIN INLET OR AT OTHER POINTS OF DISCHARGE FROM A DISTURBED AREA. THE FOLLOWING SEDIMENT TRAPS MAY BE CONSTRUCTED EITHER INDEPENDENTLY OR IN CONJUNCTION WITH A TEMPORARY DIVERSION

DIKE:

- **BLOCK & GRAVEL SEDIMENT FILTER THIS PROTECTION IS** APPLICABLE WHERE HEAVY FLOWS AND/OR WHERE AN OVERFLO CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE.
- GRAVEL SEDIMENT TRAP THIS PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES & UNPROTECTED AREAS.
- DROP INLET SEDIMENT TRAP THIS PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (S < 5%) AND WHERE SHEET OR OVERLAND FLOWS (Q < 0.5 CFS) ARE TYPICAL. THIS METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS SUCH AS IN STREET OR HIGHWAY MEDIANS.
- OUTLET PROTECTION: APPLICABLE TO THE OUTLETS OF ALL PIPES AND PAVED CHANNEL SECTIONS WHERE THE FLOW COULD CAUSE EROSION & SEDIMENT PROBLEM TO THE RECEIVING WATER BODY. SILT FENCES & HAY BALES ARE TO BE INSTALLED IMMEDIATELY DOWNSTREAM OF THE DISCHARGING STRUCTURE AS SHOWN ON THE OUTLET PROTECTION DETAIL.
- SEDIMENT BASIN: WILL BE CONSTRUCTED AT THE COMMON DRAINAGE LOCATIONS THAT SERVE AN AREA WITH 10 OR MORE DISTURBED ACRES AT ONE TIME, THE PROPOSED STORMWATER PONDS (OR TEMPORARY PONDS) WILL BE CONSTRUCTED FOR US AS SEDIMENT BASINS. THESE SEDIMENT BASINS MUST PROVIDE A MINIMUM OF 3,600 CUBIC FEET OF STORAGE PER ACRE DRAINED UNTIL FINAL STABILIZATION OF THE SITE. THE 3,600 CUBIC FEET O STORAGE AREA PER ACRE DRAINED DOES NOT APPLY TO FLOWS FROM OFFSITE AREAS AND FLOWS FROM ONSITE AREAS THAT AR EITHER UNDISTURBED OR HAVE UNDERGONE FINAL STABILIZATION WHERE SUCH FLOWS ARE DIVERTED AROUND BOTH THE DISTURBED AREA AND THE SEDIMENT BASIN. ANY TEMPORARY SEDIMENT BASINS CONSTRUCTED MUST BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS FOR STRUCTURAL FILL ALL SEDIMENT COLLECTED IN PERMANENT OR TEMPORARY SEDIMENT TRAPS MUST BE REMOVED UPON FINAL STABILIZATION.

MAINTENANCE/INSPECTION PROCEDURES

THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED THE SEDIMENT BASINS WILL BE INSPECTED FOR THE DEPTH OF SEDIMENT AND BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 10 PERCENT OF THE DESIGN CAPACITY OR AT THE END OF THE JOB, WHICHEVER COMES FIRST. PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY

> TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.

> > * A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION. A COPY OF THE REPORT FORM TO BE COMPLETED BY THE INSPECTOR IS ATTACHED. THE REPORTS WILL BE KEPT ON SITE DURING CONSTRUCTION AND AVAILABLE UPON REQUEST TO THE OWNER, ENGINEER OR ANY FEDERAL, STATE OR LOCAL AGENCY APPROVING SEDIMENT AND AND EROSION PLANS, OR STORMWATER MANAGEMENT PLANS. THE REPORTS SHALL BE MADE AND RETAINED AS PART OF THE WATER POLLUTION PREVENTION PLAN FOR AT LEAST THREE YEARS FROM THE DATE THAT THE SITE IS FINALLY STABILIZED AND THE NOTICE OF TERMINATION IS SUBMITTED THE REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE.

* THE SITE SUPERINTENDENT WILL SELECT UP TO THREE INDIVIDUALS WHO WILL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT.

PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES WILL RECEIVE TRAINING FROM THE SITE. SUPERINTENDENT. THEY WILL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING

NON-STORMWATER DISCHARGES

IT IS EXPECTED THAT THE FOLLOWING NON-STORMWATER CONSTRUCTION PERIOD:

WATER FROM WATER LINE FLUSHING

*PAVEMENT WASH WATERS (WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE OCCURRED).

UNCONTAMINATED GROUNDWATER (FROM DEWATERING

ALL NON-STORMWATER DISCHARGE WILL BE DIRECTED TO THE

AND THAT AUTHORIZES THE STORM CONDITIONS OF THE DEP ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP
WILL BE CLEARLY POSTED ON SITE AND SITE PERSONNEL WILL BE
MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE
INFORMATION AND CLEANUP SUPPLIES.
MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL

HAZARDOUS PRODUCTS

ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE

RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.

OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER

PRODUCT SPECIFIC PRACTICES THE FOLLOWING PRODUCT

ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND

FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM

AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT

AREA. THE CONTENTS OF ANY PARTIALLY USED BAGS OF

EXPOSURE TO STORMWATER. STORAGE WILL BE IN A COVERED

FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO

CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT

REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO

THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF

ACCORDING TO MANUFACTURERS' INSTRUCTIONS OR STATE AND

CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL

FOR SPILL PREVENTION AND CLEANUP:

DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE

MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS

OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED

RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE

CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN

TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY

ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING

SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE:

TO THE MANUFACTURER'S RECOMMENDATIONS.

* IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S

WITH HAZARDOUS MATERIALS.

DISPOSAL WILL BE FOLLOWED.

PETROLEUM PRODUCTS

FERTILIZERS

AVOID SPILLS.

LOCAL REGULATIONS.

CONCRETE TRUCKS

PAINTS

ARE NOT RESEALABLE.

BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, LIQUID ABSORBENT (i.e. KITTY LITTER OR EQUAL), SAND, SAWDUST, PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.

ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY. THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.

SPILL OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE OF THE SPILL.

THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED. THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE/SHE WILL DESIGNATE AT LEAST ONE OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IF APPLICABLE, IN THE OFFICE TRAILER ONSITE.

MAINTENANCE/INSPECTION PROCEDURES

EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE

THE FOLLOWING ARE INSPECTION AND MAINTENANCE PRACTICES THAT WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS.

* NO MORE THAN 10 ACRES OF THE SITE WILL BE DENUDED AT ONE TIME WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.

* ALL CONTROL MEASURES WILL BE INSPECTED BY THE SUPERINTENDENT, THE PERSON RESPONSIBLE FOR THE DAY TO DAY SITE OPERATION OR SOMEONE APPOINTED BY THE SUPERINTENDENT, AT LEAST ONCE A WEEK AND FOLLOWING ANY STORM EVENT OF 0.25 INCHES OR GREATER.

ALL TURBIDITY CONTROL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT.

* BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE.

SILT FENCE WILL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS. TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE FIRMLY IN

* DIVERSION DIKES/SWALES WILL BE INSPECTED AND ANY BREACHES PROMPTLY REPAIRED.

400 N Ashley Drive,

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Tampa, FL 33602

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DISCHARGES WILL OCCUR FROM THE SITE DURING THE

SEDIMENT BASIN PRIOR TO DISCHARGE.

CONTRACTOR'S CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS GENERIC PERMIT WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL

SIGNATURE	BUSINESS NAME AND ADDRESS OF CONTRACTOR & ALL SUBS	RESPONSIBLE FOR/DUTIES
		GENERAL CONTRACTOR
		SUB-CONTRACTOR



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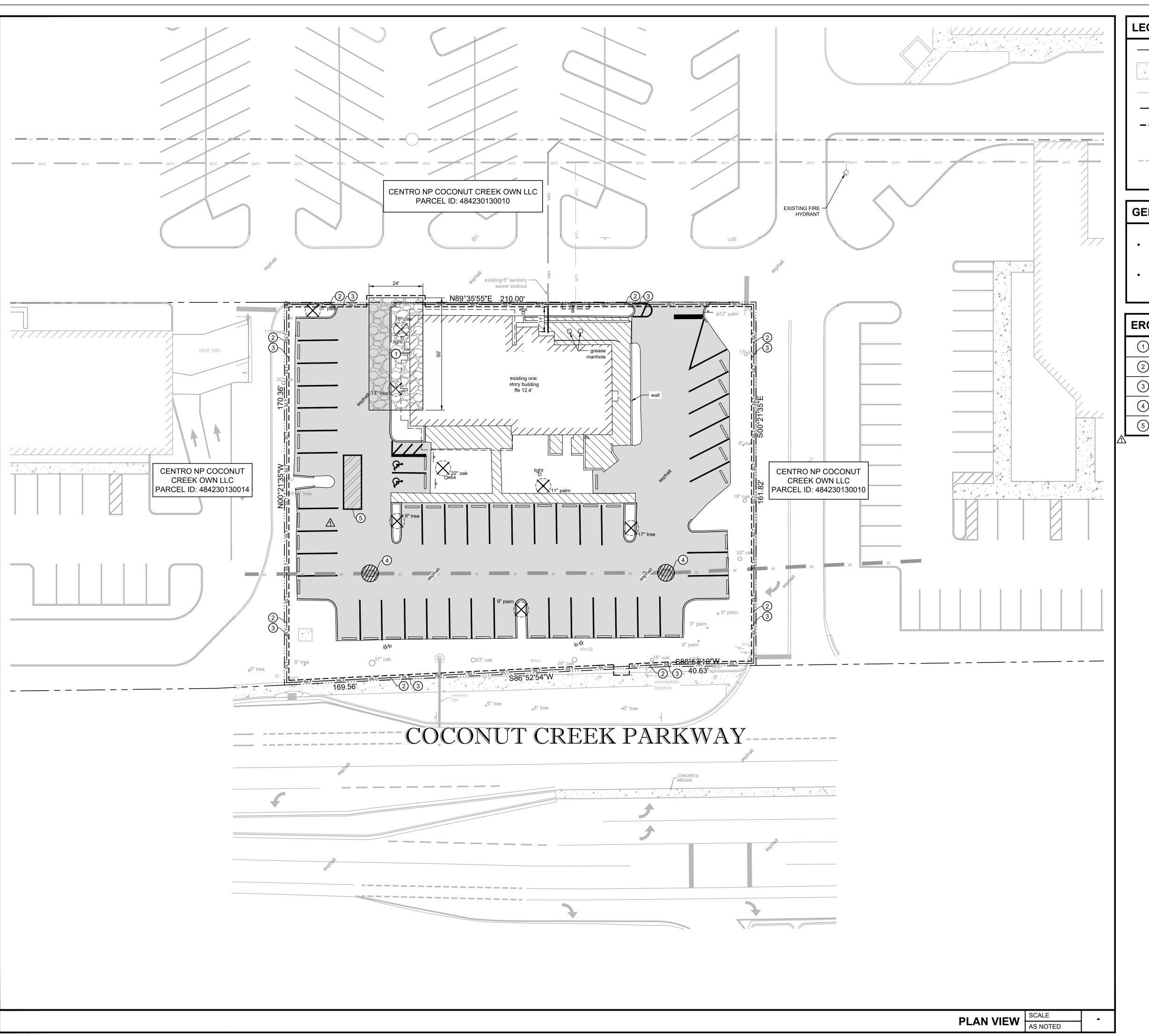
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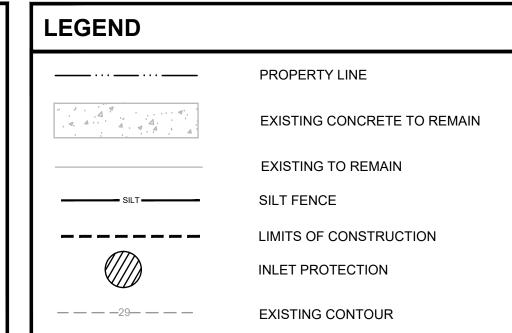
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•		09/05/24	PERMIT SET

PROJECT INFORMATION BLOCK JOB# 230649 DATE: 09/05/24 DRAWN BY: CHECKED BY:

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SWPPP GENERAL REQUIREMENTS





architects 400 N Ashley Drive,

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GENERAL NOTES

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ALL MATERIALS INCLUDING FILL STOCKPILES SHALL NOT BE PERMANENTLY LOCATED ON THE UNDEVELOPED AREA OF PROPOSED DEVELOPMENT.

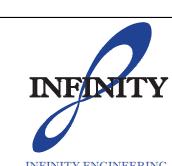
EXISTING GRADE ELEVATION

ALL DISTURBED AREAS OF UNDEVELOPED PROPERTY SHALL BE HYDROMULCHED WITH SEED TO ESTABLISH TURN AND PREVENT SILT RUNOFF INTO THE STREETS.

EROSION CONTROL KEYED NOTES

1	CRUSHED STONE CONSTRUCTION ENTRANCE AND CONCRETE TRUCK WASHOUT AREA.
2	SILT FENCE
3	LIMITS OF CONSTRUCTION (0.77 AC)
4	INLET PROTECTION
5	TEMPORARY CONSTRUCTION TRAILER.





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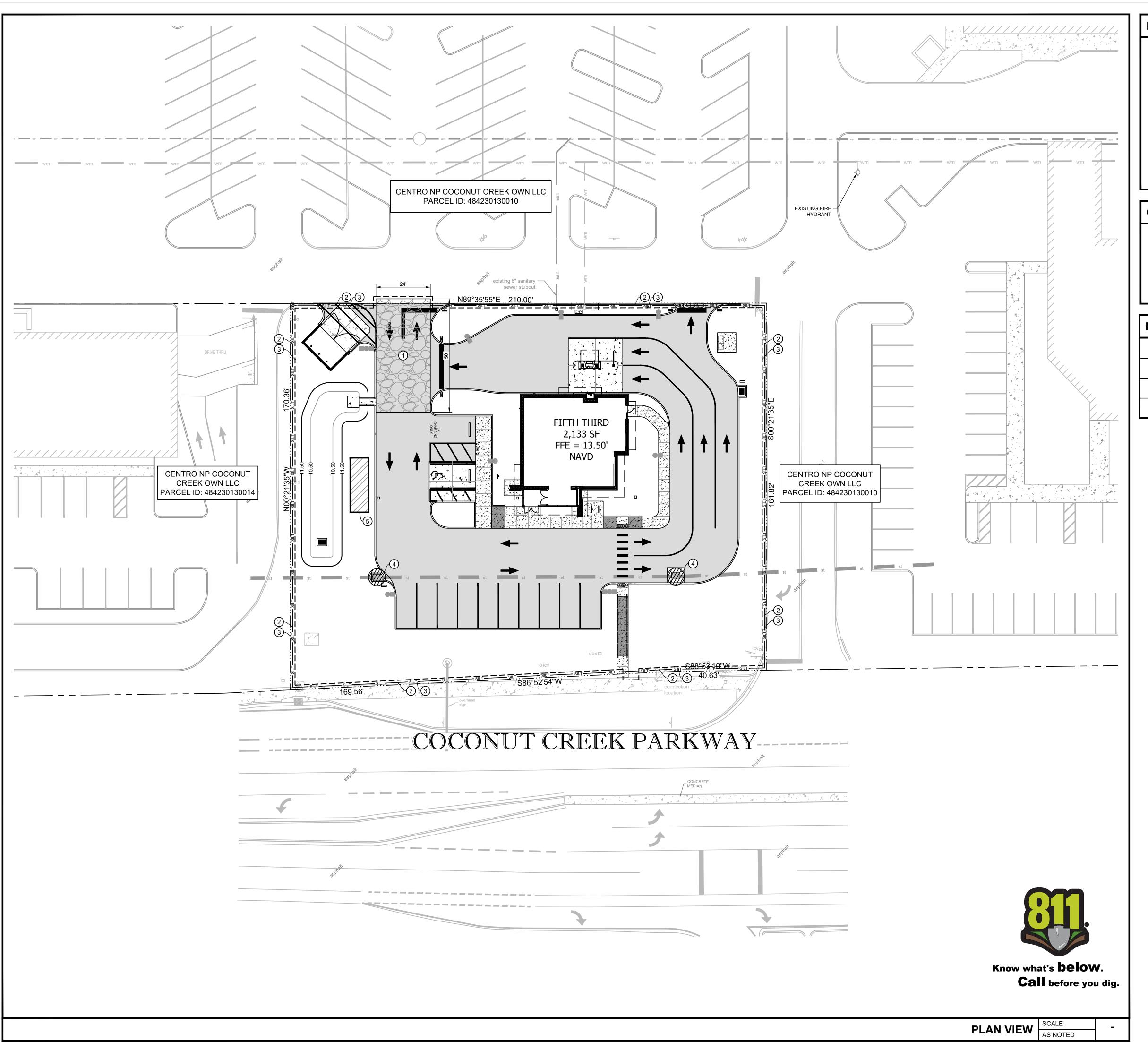
EROSION CONTROL PLAN PHASE I

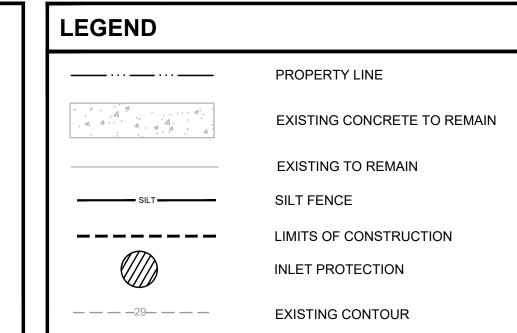
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Know what's **below**.

Call before you dig.

C06.02





GENERAL NOTES

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ALL MATERIALS INCLUDING FILL STOCKPILES SHALL NOT BE PERMANENTLY LOCATED ON THE UNDEVELOPED AREA OF PROPOSED DEVELOPMENT.

EXISTING GRADE ELEVATION

 ALL DISTURBED AREAS OF UNDEVELOPED PROPERTY SHALL BE HYDROMULCHED WITH SEED TO ESTABLISH TURN AND PREVENT SILT RUNOFF INTO THE STREETS.

EROSION CONTROL KEYED NOTES

1	CRUSHED STONE CONSTRUCTION ENTRANCE AND CONCRETE TRUCK WASHOUT AREA
2	SILT FENCE
3	LIMITS OF CONSTRUCTION (0.77 AC)
4	INLET PROTECTION



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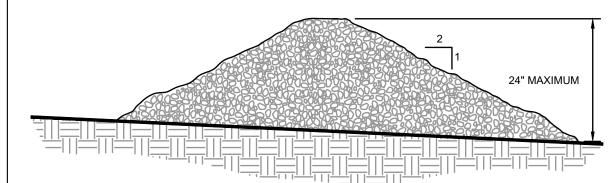
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EROSION CONTROL PLAN PHASE II

SHEET NUMBER

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CROSS SECTION

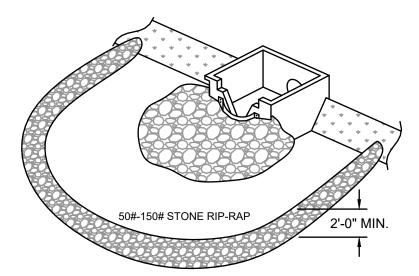


PROFILE VIEW

. CHECK DAMS ARE TO BE USED ONLY IN SMALL OPEN CHANNELS (THEY ARE NOT

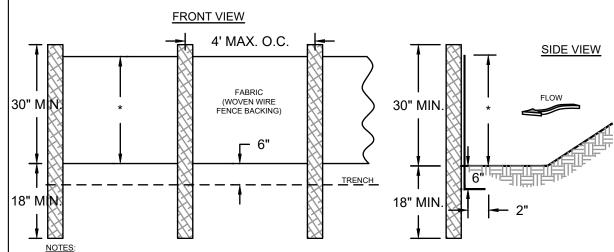
- TO BE USED IN LIVE STREAMS).
 THE DRAINAGE AREA FOR STONE CHECK DAMS SHALL NOT EXCEED TWO ACRES. 3. THE CENTER OF THE CHECK DAM MUST BE AT LEAST 9 INCHES LOWER THAN THE
- 4. THE DAM HEIGHT SHOULD BE A MAXIMUM OF 2 FEET FROM CENTER TO RIM EDGE 5. THE SIDE SLOPES OF THE CHECK DAM SHALL NOT EXCEED A 2:1 SLOPE.
- 6. GEOTEXTILE SHALL BE USED TO PREVENT THE MITIGATION OF SUBGRADE SOIL PARTICLES INTO THE STONES (REFER TO AASHTO M288-96, SECTION 7.3, TABLE 3).

STONE CHECK DAM



A TEMPORARY STONE BARRIER CONSTRUCTED AT STORM DRAIN INLETS AND POND OUTLETS TO REDUCE FLOW VELOCITIES, PREVENT FAILURE OF OTHER SEDIMENT CONTROL DEVICES AND TO PREVENT SEDIMENT FROM LEAVING THE SITE OR ENTERING DRAINAGE SYSTEMS.

STONE FILTER RING



NOTES:

1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN. 2. HEIGHT (*) IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

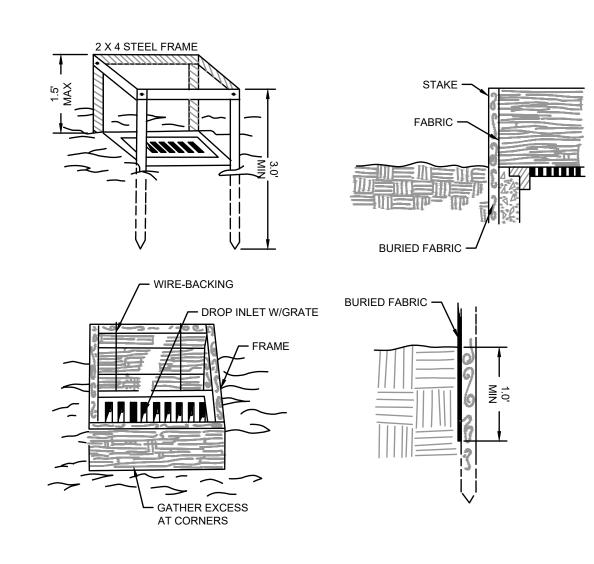
Sd1-S SILT FENCE - TYPE SENSITIVE

EXIT DIAGRAM HARD SURFACE PUBLIC ROAD (SEE NOTE 8) CULVERT UNDER-ENTRANCE (IF NEEDED) DIVERSION RIDGE -(SEE NOTE 6) N.S.A R-2 (1.5" - 3.5")— COARSE AGGREGATE GEOTEXTILE UNDERLINER -TIRE WASHRACK -AREA/TIRE WASHERS SUPPLY WATER TO WASH-WHEELS IF NECESSARY COARSE AGGREGATE ENTRANCE ELEVATION (N.S.A. R-2) GEOTEXTILE UNDERLINER -GRADE

AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS. 2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE

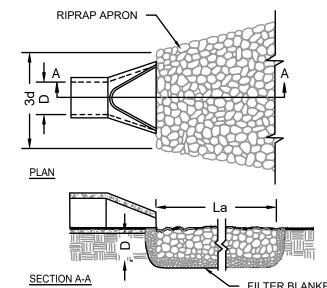
- FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE. 3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
- 4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6". 5. PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'. 6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA
- IS GREATER THAN 2% INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES. 8. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT
- BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE). 9. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY
- MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT. 10. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

CRUSHED STONE CONSTRUCTION EXIT



INLET SEDIMENT TRAP-FILTER FABRIC

PIPE OUTLET TO FLAT AREA -- NO WELL DEFINED CHANNEL



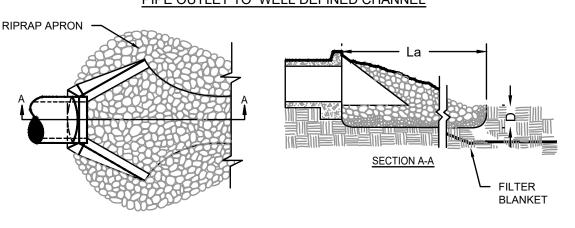
<u>PLAN</u>

2. D = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6" 3. IN A WELL-DEFINED CHANNEL, EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK (WHICHEVER IS LESS). A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE

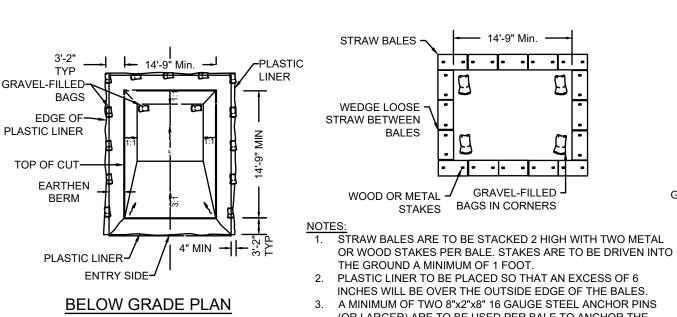
RIPRAP AND THE SOIL FOUNDATION.

1. La IS THE LENGTH OF THE RIPRAP

PIPE OUTLET TO WELL DEFINED CHANNE



STORM OUTLET PROTECTION

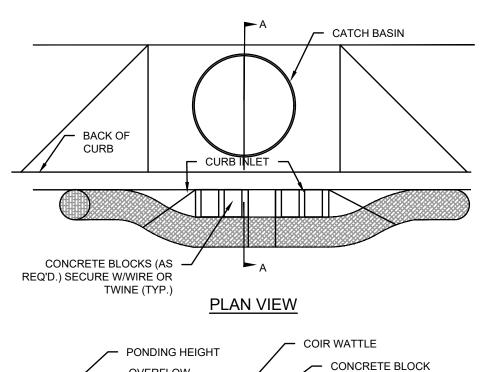


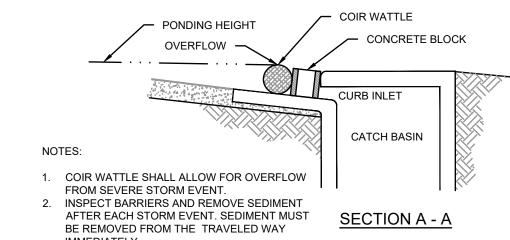
(OR LARGER) ARE TO BE USED PER BALE TO ANCHOR THE PLASTIC LINER IN PLACE. GRAVEL-FILLED BAG ON GRADE PLAN EARTHEN BERM -PLASTIC LINER PLACED UNDER BERM (ENTRY SIDE ONLY) -ORIGINAL GROUND ORIGINAL GROUND-PLASTIC LINER-SECTION A-A EARTHEN BERM SECTION

WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITI

- A SUITABLE WASHOUT FACILITY MUST BE PROVIDED FOR THE CLEANING OF CHUTES, MIXERS, AND HOPPERS OF THE DELIVERY VEHICLES UNLESS SUCH A FACILITY WILL BE USED AT THE SOURCE OF THE CONCRETE.UNDER NO CIRCUMSTANCES MAY WASH WATER FROM THESE VEHICLES BE ALLOWED TO ENTER ANY SURFACE WATERS.
- 3. A 4'X2' WHITE SIGN WITH 6" BLACK LETTERS STATING "CONCRETE WASHOUT" IS TO BE PROVIDED SO DRIVERS ARE AWARE OF THE PRESENCE OF WASHOUT
- 4. WASHOUT FACILITIES SHOULD NOT BE PLACED WITHIN 50 FEET OF STORM DRAINS, OPEN DITCHES OR SURFACE WATERS. THEY SHOULD BE IN A CONVENIENT LOCATION FOR THE TRUCKS, PREFERABLY NEAR THE PLACE WHERE THE CONCRETE IS BEING POURED, BUT FAR ENOUGH FROM OTHER VEHICULAR TRAFFIC
- TO MINIMIZE THE POTENTIAL FOR ACCIDENTAL DAMAGE OR SPILLS. 5. THE CONTRACTOR SHALL INSPECT THE WASH DOWN AREA INTERMITTENTLY TO ENSURE PROPER CONTAINMENT IS ACCOMPLISHED.
- 6. IN THE EVENT OF A SPILL OR LEAK THE CONTRACTOR SHALL IMMEDIATELY REPORT & REMEDIATE SAME IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL LAWS.

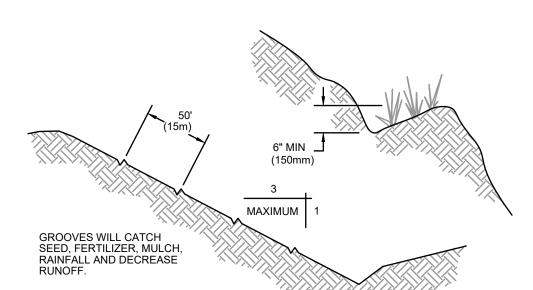
TEMPORARY CONCRETE WASHOUT FACILITY





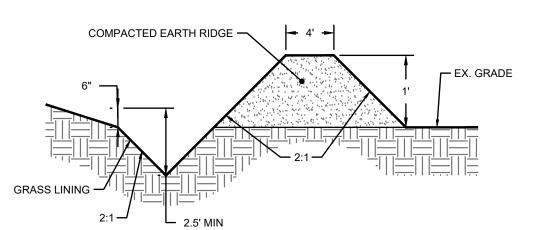
CURB INLET SEDIMENT BARRIER (COIR WATTLE)

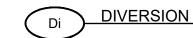


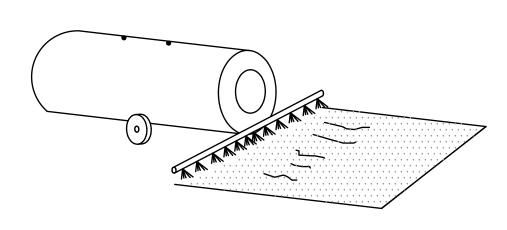




CONTOUR FURROWS







TEMPORARY METHODS
- MULCHES - TEMPORARY VEGETATIVE COVER - SPRAY ON ADHESIVES - IRRIGATION - BARRIFRS

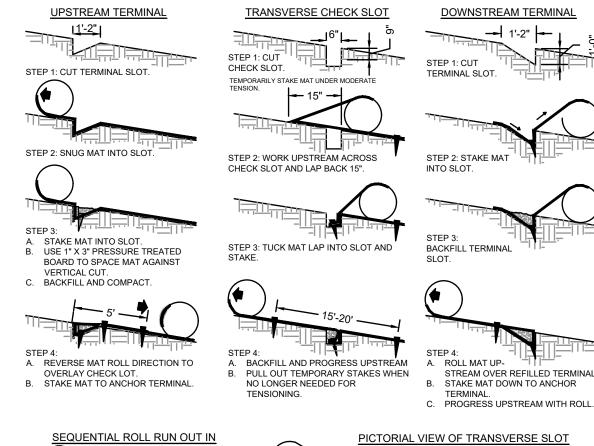
- CALCIUM CHLORIDE

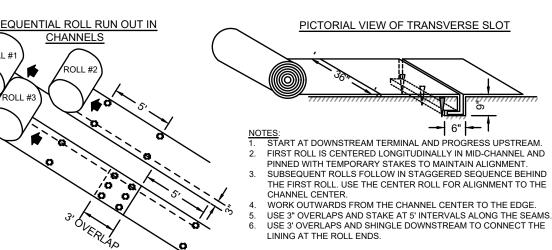
PERMANENT VEGETATION TOPSOILING STONE COVER

CHEMICAL CONTROL

CHEMICAL CONTROL						
ADHESIVE	WATER DILUTION	TYPE OF NOZZLE	APPLICATION RATE (GAL/AC)			
ANIOIC ASPHALT 7.1* EMULSION		SPRAY	1200			
LATEX EMULSION	12 1/2:1*	FINE SPRAY	235			
RESIN-IN- WATER EMULSION	4:1*	FINE SPRAY	300			
*USE MANUFACTURER'S RECOMMENDATIONS WHEN AVAILABLE						

Du DUST CONTROL ON DISTURBED AREAS





RECP- ROLLED EROSION CONTROL PRODUCT EROSION BLANKETS & TURF REINFORCEMENT MATS

GENERAL NOTES:

- 1. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING SILT FROM SITE IF NOT REUSABLE ON-SITE AND ASSURING PLAN ALIGNMENT AND GRADE IN ALL DITCHES AND SWALES AT COMPLETION OF CONSTRUCTION.
- 2. THE SITE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABILIZED.
- 3. ADDTIONAL PROTECTION ON-SITE PROTECTION IN ADDITION TO THE ABOVE MUST BE PROVIDED THAT WILL NOT PERMIT SILT TO LEAVE THE PROJECT CONFINES DUE TO UNSEEN CONDITIONS OR ACCIDENTS.
- 4. CONTRACTOR SHALL INSURE THAT ALL DRAINAGE STRUCTURES, PIPES. ETC. ARE CLEANED OUT AND WORKING PROPERLY AT TIME OF ACCEPTANCE.
- 5. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE BEST MANAGEMENT PRACTICES (BMP) AND MOST CURRENT EROSION AND SEDIMENT CONTROL PRACTICES. THIS PLAN INDICATES THE MINIMUM EROSION AND SEDIMENT MEASURES REQUIRED FOR THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL APPLICABLE RULES, REGULATIONS AND WATER QUALITY GUIDELINES AND MAY NEED TO INSTALL ADDITIONAL CONTROLS.

PRE-Construction SITE PROTECTION:

- 8. EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WETLAND AREAS WHERE THERE IS POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION. SEE DETAIL SHEET FOR TYPICAL CONSTRUCTION.
- 9. ANY DISCHARGE FROM DEWATERING ACTIVITY SHALL BE FILTERED AND CONVEYED TO THE OUTFALL IN A MANNER WHICH PREVENTS EROSION AND TRANSPORTATION OF SUSPENDED SOLIDS TO THE RECEIVING OUTFALL.
- 10. DEWATERING PUMPS SHALL NOT EXCEED THE CAPACITY OF THAT WHICH REQUIRES A CONSUMPTIVE USE PERMIT FROM THE DEPARTMENT OF ENVIRONMENTAL PROTECTION
- 11. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-THIRD (1/3) THE HEIGHT OF THE BARRIER OR INLET. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
- 12. ALL DISTURBED AREAS ARE TO BE STABILIZED THROUGH COMPACTION. SILT SCREENS, SYNTHETIC BALES, AND GRASSING. ALL FILL SLOPES 3:1 OR STEEPER TO RECEIVE STAKED SOLID SOD.

SITE PROTECTION:

- 13. THE FILTER BARRIER SHALL BE ENTRENCHED AND BACKFILLED PROPERLY. A TRENCH SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 6 INCHES. BARRIER IS STAKED, THE EXCAVATED SOIL OR GRAVEL SHALL BE BACKFILLED AND COMPACTED AGAINST THE FILTER BARRIER. USING WIRE BACKING FOR SUPPORT IS DISCOURAGED DUE TO DISPOSAL PROBLEMS.
- 14. WATER OR SLURRY USED TO CONTROL DUST SHALL BE RETAINED ON THE SITE AND NOT ALLOWED TO RUN DIRECTLY INTO WATERCOURSE OR STORMWATER CONVEYANCE
- 15. SPECIAL AREAS SHALL BE DESIGNATED AS VEHICLE AND EQUIPMENT WASHING AREAS AND SUCH AREAS SHALL NOT ALLOW RUNOFF TO FLOW DIRECTLY INTO
- 16. SILT FENCE BARRIERS ARE NOT TO BE USED WHERE CONCENTRATED FLOWS OF WATER ARE ANTICIPATED SUCH AS DRAINAGE DITCHES. AROUND INLETS OR ABOVE/
- BELOW WHERE CULVERTS DISCHARGE. 17. SYNTHETIC BALES, SANDBAGS OR OTHER APPROVED DEVICE FACED WITH FILTER FABRIC SHALL BE USED IN HIGH VOLUME AREAS TO DECREASE THE RUNOFF
- VELOCITY AND SHALL BE SECURELY ANCHORED 18. ALL DEVICES INCLUDING SILT FENCE. FILTER BARRIERS. SYNTHETIC BALES AND/OR SANDBAGS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST
- DAILY DURING PROLONGED RAINFALL. CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED BARRIERS. END RUNS AND UNDERCUTTING BENEATH BARRIERS.
- 19. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

WATERCOURSE OR STORMWATER CONVEYANCE SYSTEMS.

20, SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.

STORM DRAIN INLET PROTECTION:

- 21. FILTER FABRIC SHALL BE LAID OVER INLETS SO THAT THE FABRIC EXTEND A MINIMUM OF 1 FOOT BEYOND EAST SIDE OF THE INLET STRUCTURE. IF MORE THAN ONE STRIP OF FABRIC IS NECESSARY, THE STRIPS SHALL BE OVERLAPPED.
- 22. 2 INCH 3 INCH COARSE AGGREGATE SHALL BE PLACED OVER THE FILTER FABRIC. THE DEPTH OF STONE SHALL BE AT LEAST 6 INCHES OVER THE ENTIRE INLET OPENING. THE STONE SHALL EXTEND BEYOND THE INLET OPENING AT LEAST 18 INCHES ON ALL SIDES.
- 23. IF STONE FILTERS BECOME CLOGGED WITH SEDIMENT SO THAT THEY NO LONGER ADEQUATELY PERFORM THEIR FUNCTION, THE STONES MUST BE PULLED AWAY FROM THE INLET, CLEANED AND REPLACED.
- POST-CONSTRUCTION SITE PROTECTION:
- 24. ALL DEWATERING, EROSION AND SEDIMENT CONTROL TO REMAIN IN PLACE AFTER COMPLETION OF CONSTRUCTION AND REMOVED ONLY WHEN AREAS HAVE STABILIZED.
- 25. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER TEMPORARY BARRIERS ARE. NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA IN SUCH A MANNER THAT IT WILL NOT ERODE.
- 26. ALL DISTURBED AREAS SHALL BE GRASSED, FERTILIZED, MULCHED AND MAINTAINED UNTIL A PERMANENT VEGETATIVE COVER IS ESTABLISHED.
- 27. SOD SHALL BE PLACED IN AREAS WHICH MAY REQUIRE IMMEDIATE EROSION PROTECTION TO ENSURE WATER QUALITY STANDARDS ARE MAINTAINED.

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NISIT SAPPARKHAO, P.E.

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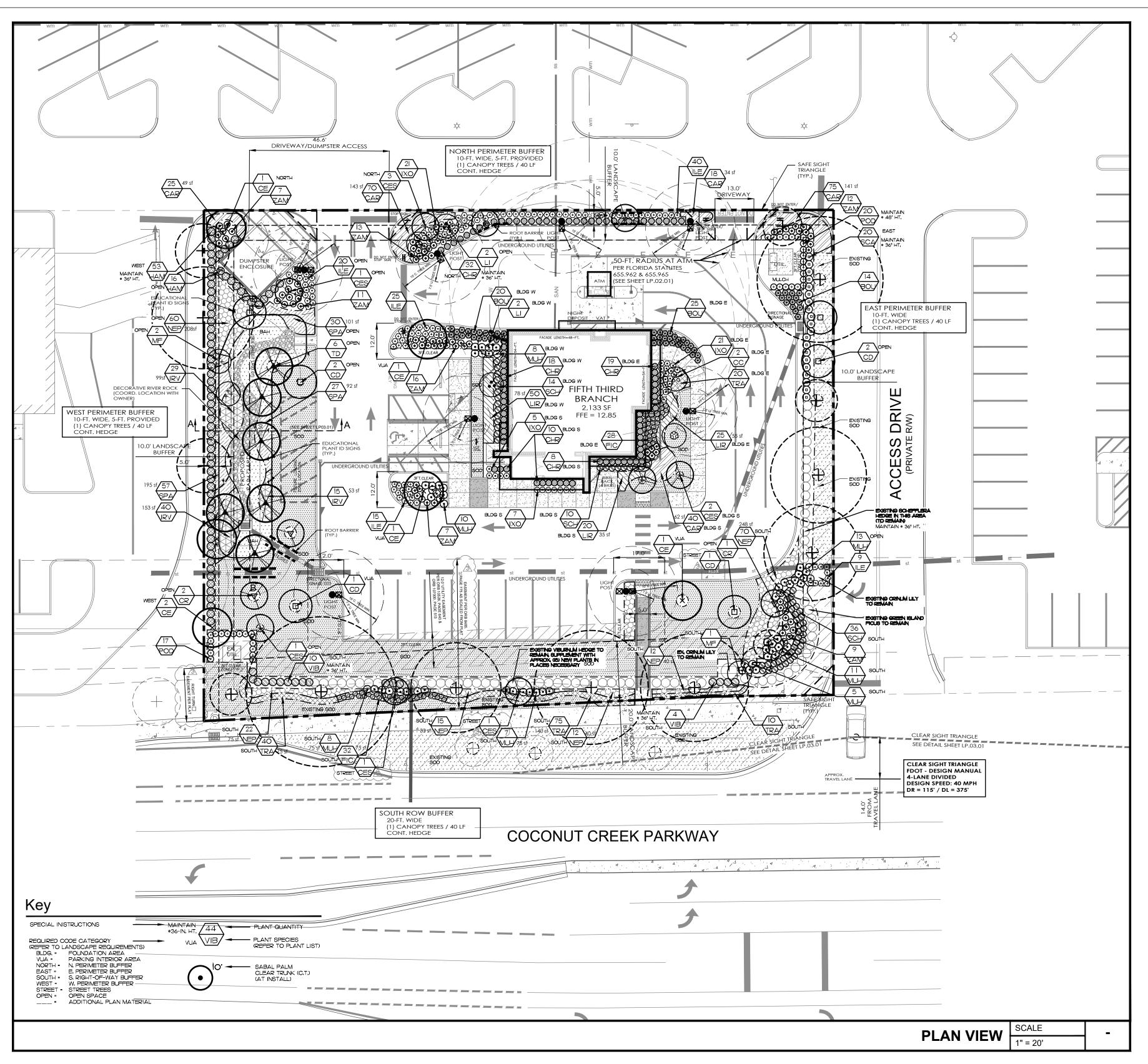
PROJECT INFORMATION BLOCK JOB# DATE: 09/05/24 DRAWN BY:

CHECKED BY: SHEET TITLE

EROSION AND SEDIMENTATION CONTROL DETAILS

SHEET NUMBER

C06.04



City of Coconut Creek Standard Landscape Notes

CITY OF COCONUT CREEK STANDARD LANDSCAPE NOTES

- I. ALL LANDSCAPE AND SPECIFICATIONS SHALL MEET OR EXCEED THE MINIMUM REQUIREMENTS AS PROVIDED IN THE CITY OF COCONUT CREEK LAND DEVELOPMENT CODE, PLANS ARE INCOMPLETE WITHOUT WRITTEN NOTES AND SPECIFICATIONS.
- 2. ALL PLANTING MATERIAL SHALL MEET OR EXCEED FLORIDA GRADE #I AS SPECIFIED IN GRADES AND STANDARDS FOR NURSERY PLANTS, CURRENT EDITION, TREES SHALL NOT BE TIPPED, TOPPED, OR SHAPED PRIOR TO INSTALLATION,
- 3. LANDSCAPE SHALL BE PLACED TO EDGE OF ABUTTING STREETS, CANALS, LAKES OR OTHER LANDS.
- 4. ALL MECHANICAL EQUIPMENT, AIR CONDITIONING, IRRIGATION PUMP STATIONS AND EQUIPMENT, FPL TRANSFORMERS, POOL PUMPS, ETC., MUST BE SCREENED ON THREE (3) SIDES BY LANDSCAPE SHRUBS. NOTE: THE QUANTITY OF SCREENING SHRUBS IS IN ADDITION TO THE REQUIRED NUMBER OF SHRUBS AS PROVIDED IN THE CODE CALCULATION TABLE, ALL SCREENING SHRUBS SHALL BE PLANTED FOR PROPER OPERATION OF EQUIPMENT BEING SCREENED AND/OR PER THE REQUIREMENTS OF THE UTILITY AS NECESSARY, ALL HEDGE MATERIAL REQUIRED FOR SCREENING PURPOSES SHALL BE PLANTED WITH BRANCHES TOUCHING, ADJUST ON-CENTER SPACING AS NECESSARY AND/OR PROVIDE ADDITIONAL PLANTS TO PROVIDE AN ADEQUATE
- 5. SIGHT DISTANCE CONCERNS MUST BE MAINTAINED FOR CLEAR SIGHT VISIBILITY FROM THIRTY (30) INCHES TO SEVENTY-TWO INCHES, TREE TRUNKS EXCLUDED, MEASUREMENT SHALL BE MADE FROM TOP OF ROOT BALL PLANTED AT PROPER ELEVATION.
- 6. ALL TREES AND PALMS PLANTED AS TREES SHALL BE SECURELY GUYED, BRACED, AND/OR STAKED WITH SISAL ROPE OR OTHER ORGANIC MATERIAL AT THE TIME OF PLANTING UNTIL ESTABLISHMENT, NO SYNTHETIC MATERIAL MAY BE USED AROUND THE TREE TRUNK, GUYING/STAKING PRACTICES SHALL NOT PERMIT NAILS, SCREWS, WIRES, ETC., TO PENETRATE OUTER SURFACES OF TREES, PALMS OR OTHER PLANT MATERIAL.

TREES, PALMS AND PLANT MATERIAL REJECTED DUE TO THIS PRACTICE SHALL BE REPLACED WITH THE INSPECTOR ON SITE.

- 7. BURLAP MATERIAL, WIRE CAGES, CANVAS STRAPS, ETC., MUST BE CUT AND REMOVED FOR THE TOP ONE-HALF (1/2) DEPTH OF THE ROOT BALL, TREES AND SHRUBS GROWN IN GROW BAGS OR WITH ANY SYNTHETIC MATERIAL MUST HAVE SUCH MATERIAL REMOVED ENTIRELY PRIOR TO
- 8. ALL PLANT MATERIAL SHALL BE FREE OF PESTS, INSECTS, DISEASE, WEEDS, ETC.
- 9. ALL REQUIRED LANDSCAPE MATERIAL SHALL BE INSTALLED USING A PLANTING SOIL MIX COMPRISED OF A TYPE APPROPRIATE TO THE INDIVIDUAL PROPOSED PLANT MATERIAL AND THE NATIVE SOIL FOUND ON THE SITE.
- IO, ALL PLANT MATERIAL SHALL BE PLANTED AT THE PROPER DEPTH SO THE TOP OF THE ROOT BALL IS FLUSH OR SLIGHTLY ABOVE FINISHED GRADE IMMEDIATELY AFTER PLANTING, ALL TREES SHOULD PROVIDE TRUNK TAPER WHEN PROPERLY PLANTED AT THE CORRECT PLANTING DEPTH.

- II. ALL PLANT MATERIAL SHALL BE WATERED IN AT TIME OF PLANTING TO ELIMINATE AIR POCKETS IN THE ROOT ZONE AREA.
- 12. UPON COMPLETION OF WORK, THE SITE SHALL BE CLEARED OF ALL DEBRIS, SUPERFLUOUS MATERIALS, AND EQUIPMENT CAUSED BY THIS PERMIT TO THE SATISFACTION OF THE INSPECTOR.
- 13. REFER TO COCONUT CREEK FIRE EQUIPMENT CLEAR ZONE DIAGRAM TO MAINTAIN A SAFE ZONE AROUND FIRE HYDRANTS. 14. DO NOT PLANT TREES, SHRUBS OR GROUNDCOVER WITHIN ELECTRIC METER CLEAR ZONE. PROVIDE A SAFE ZONE AS DESCRIBED BY THE
- ALL LANDSCAPED AREAS SHALL BE PROVIDED WITH AN UNDERGROUND FULLY AUTOMATIC IRRIGATION SYSTEM, SYSTEM SHALL PROVIDE 100% COVERAGE WITH 50% OVERLAP (MINIMUM) USING RUST FREE WATER, EXCEPT PRESERVED AREAS REMAINING IN NATURAL STATE. A RAIN SENSOR DEVICE OR SWITCH SHALL BE INSTALLED THAT WILL OVERRIDE THE IRRIGATION SYSTEM WHEN ADEQUATE RAINFALL HAS OCCURRED. WATER SHALL NOT BE DIRECTED AND/OR PROVIDED ONTO IMPERVIOUS SURFACES AND/OR BE DESIGNED OR INSTALLED TO THROW WATER OVER AN IMPERVIOUS SURFACE SUCH AS A SIDEWALK, ETC. HOURS OF OPERATION FOR ALL IRRIGATION SYSTEMS SHALL BE SET FORTH BY SOUTH FLORIDA
- WATER MANAGEMENT DISTRICT OR OTHER JURISDICTIONAL AGENCY, 16. IRRIGATION PERMITS AND PLANS SHALL BE SUBMITTED FOR APPROVAL AT TIME OF BUILDING PERMITS.
- 17. ALL NON-SINGLE FAMILY OR DUPLEX IRRIGATION SYSTEMS OTHER THAN CITY WATER SYSTEMS SHALL REQUIRE A SOUTH FLORIDA WATER MANAGEMENT DISTRICT WATER USE PERMIT PRIOR TO ISSUANCE OF AN IRRIGATION PERMIT AND INSTALLATION OF THE IRRIGATION SYSTEM AS
- 18. ALL SITE AMENITIES TO INCLUDE SITE STREET LIGHTS, LANDSCAPE COMMON OPEN SPACE, IRRIGATION COMMON OPEN SPACE, BUFFERS, BERMS, LANDSCAPE ENTRY FEATURES, ETC. LEADING UP TO AND INCLUDING THE MODEL CENTER AND/OR FIRST CERTIFICATE OF OCCUPANCY MUST BE COMPLETED AND FUNCTIONAL PRIOR TO ISSUANCE OF THE FIRST REQUESTED CERTIFICATE OF OCCUPANCY.
- 19. THE HEIGHT OF ALL REQUIRED, DESIGNED AND INSTALLED BERMS SHALL BE FROM THE HIGHEST ADJACENT POINT WHETHER IT IS THE SIDEWALK, PARKING AREA, VEHICULAR USE AREA, SURROUNDING GROUND, ETC. WHERE A BERM ABUTS A SIDEWALK, THERE SHALL BE A ONE (1) FOOT LEVEL SOD AREA ADJACENT TO THE SIDEWALK PRIOR TO THE START OF INCLINE FOR THE BERM.
- 20, AN INSPECTION IS REQUIRED PRIOR TO THE BACKFILLING OF TREES/PALMS IN ALL PARKING MEDIANS AND ISLANDS, 21. A TREE REMOVAL PERMIT IS REQUIRED PRIOR TO THE REMOVAL OR TRANSPLANTATION OF ANY TREE AND/OR PALM.
- NOTE: THIS COMMENT SHEET IS TO BE PLACED ON ALL LANDSCAPE PLANS "AS IS".

	SYM	BOTANICAL NAME/ COMMON NAME	HEIGHT/ SPREAD (MINIMUMS)	SPECIFICATION (MINIMUMS)	NATIVE	DROUGHT TOLERAN		MAX. PERENTAG
SH	CE	CONOCARPUS ERECTUS GREEN BUTTONWOOD	12' HT, 5' SPR,	FIELD GROWN, B&B 2" CAL., 4' C.T. MIN.	Υ	Н	6	
C TREES	TD	TAXODIUM DISTICHUM BALD CYPRESS	12' HT, 5' SPR,	FIELD GROWN, B8B 2" CAL., 4' C.T. MIN.	Υ	М	6	
၂	CES	CONOCARPUS ERECTUS SERICEUS SILVER BUTTONWOOD	IO' HT. 4' SPR.	FIELD GROWN,B &B 2" CAL,	Υ	н	<u>\$ 9</u>	23%
- 11.1	CD	COCOLOBA DIVERSIFOLIA PIDGEON PLUM	IO' HT. 4' SPR.	FIELD GROWN, B&B 2" CAL,	Υ	н	₫ 6	
ι	CR	CLUSIA ROSEA PITCH APPLE	IO' HT, 4' SPR,	FIELD GROWN, B&B 2" CAL.	Υ	н	<u>\$</u> 3	
- M	7 CC	CAPPARIS CYNOPHALLOPHARA JAMAICA CAPER	8' HT 4' SPR,	FIELD GROMN, B&B 1.5" CAL,	Υ	Н	2	
SM. TREES	7 ∟I	LAGERSTROEMIA INDICA CRAPE MYRTLE	8' HT 4' SPR,	FIELD GROMN, MULTI TRUNK 1-1/2" CAL, FOR (1) TRUNK MIN	l. N	н	4	
· ν	y M⊨	MYRICANTHES FRAGRANS SIMPSON STOPPER	8' HT 4' SPR,	FIELD GROMN, MULTI TRUNK 1-1/2" CAL, FOR (1) TRUNK MIN	Y L	н	3	
				TOTAL PROPOSED TREES			3 9	100 %
	CHR	CHRYSOBALANUS ICACO COCOPLUM	24" X 18"	24" - 30" O.C. AS SHOWN FULL TO BASE	Υ	Н	87	22%
	НАМ	HAMELIA PATENS FIREBUSH	24" X 18"	30" O.C. FULL TO BASE	Υ	Н	69	
	IXO	IXORA 'NORA GRANT' IXORA	24" X 18"	24" O.C. FULL TO BASE	Ν	н	5 4	
	MUH	MUHLENBERGIA CAPILLARIS PINK MUHLYGRASS	24" X 18"	24" O.C. FULL TO BASE	Υ	н	6 2	
	POD	PODOCARPUS MACROPHYLLUS PODOCARPUS	4' HT, X 18"	24" O.C. FULL TO BASE	Ν	н	3 7	
•	SCA	SCHEFFLERA ARBORICOLA GREEN SCHEFFLERA	24" X 18"	36" O.C. FULL TO BASE	Ν	н	2 0	
	SCH	SCHEFFLERA ARBORICOLA 'TRINETTE' VARIEGATTED SCHEFFLERA	24" X 18"	36" O.C. FULL TO BASE	N	н	60	
	VIB	VIBURNUM SUSPENSUM SANDANKWA VIBURNUM	24" X 18"	36" O.C. FULL TO BASE	Ν	н	14	
				TOTAL PROPOSED SHRUBS			403	100 %
	BOU	BOUGAINVILLEA SSP BOUGAINVILLEA BUSH	12" X 18"	24" O,C,	Ν	н	5 9	
	CAR	CARISSA MACROCARPA "GREEN ISLAND" GREEN ISLAND FICUS'	12" X 18"	18" O.C. FULL TO BASE	Ν	н	60	
	FIC	FICUS MICROCARPA 'EVERGREEN BLANKET'	12" X 18"	18" O.C. FULL TO BASE	Ν	н	228	20%
SMALL SHRUBS GROUNDCOVERS	ILE	ILEX VOMITORIA 'SHILLINGS' DWARF YAUPON HOLLY	12' X 18"	24" O.C. FULL TO BASE	Υ	н	109	
NDOX-	IRV	IRIS VIRGINICA BLUE FLAG IRIS	12" X 18"	24° O.C. FULL TO BASE	Υ	н	8 4	
<u>O</u> හි ගි	LIR	LIRIOPE MUSCARI LIRIOPE	12" X 18"	I GAL., 18" O.C. FULL	Ν	М	95	
	NEP	NEPHROLEPIS EXALTATA SWORD FERN	18' X 18"	24° O.C. FULL TO BASE	Υ	н	191	
	SPA	SPARTINA BAKERII SAND CORDGRASS	12' X 18"	24° O.C. FULL TO BASE	Υ	н	114	
	TRA	TRACHELOSPERMUM ASIATICUM 'MINIMA' DWARF ASIATIC JASMINE	12' X 18"	18" O.C. FULL TO BASE	Ν	н	145	
	ZAM	ZAMIA PUMILA COONTIE	12" X 18"	24° O.C. FULL TO BASE	Υ	Н	7 5	
			TOTAL PRO	POSED SMALL SHRUBS/GROUND	COVERS	;	1,160	100%
GRASS	ВАН	PASPALUM NOTATUM 'FLUGGE' ARGENTINE BAHIA SOD		DISEASE FREE, LAID TIGHTLY, EVEN UNIFORM	Ν	М	T.B.D.	

- ALL PROPOSED TREES ARE ON THE CITY'S APPROVED LIST # NOTE FOR ALL PLANTS: INCREASE THE HEIGHT TO OBTAIN THE MINIMUM SPREAD (AS NECESSARY)
- CATEGORY I REPLACEMENT TREES = 3,600 SF ☐ CATEGORY 2 REPLACEMENT TREES = 2,700 SF.

 $oldsymbol{
abla}$ CATEGORY 3 REPLACEMENT TREES = 900 SF.

Landscape Requirements

	REQUIRED/ PERMITTED	PROVIDED
ZONING DISTRICT: TOTAL SITE:		B-4 34,759 SF (0.8 AC
IMPERVIOUS AREA PERVIOUS AREA (OPEN SPACE)		19,688 SF (57%) 15,071 SF (43%)
MINIMUM LANDSCAPE REQUIREMENTS: SEC. 13-443 (3)		
(34,759 SF LOT LESS 15,354 VUA, LESS 2,156 SF BLDG = 1 (1) TREE/1,000 SF INCLUDES (17) PROPOSED TREES	17,249 SF) 18 TREES	18 TREES
(3) EXISTING PALMS = 1 TREE (5) SHRUBS/1,000 SF	86 SHRUBS	126 SHRUBS
FOUNDATION PLANTINGS		
SEC. 13-443(5) F. MIN 10-FT. WIDE		
WEST FACADE LENGTH:	0.10550	54 LF
(1) TREE/40 LF (20) SHRUBS/40 LF	2 TREES 27 SHRUBS	2 TREES 40 SHRUBS
(30) GROUNDCOVERS/40 LF	41 GC	70 GC
SOUTH FACADE LENGTH:		48 LF
(1) TREE/40 LF	2 TREES	2 TREES
(20) Shrubs/40 lf (30) Groundcovers/40 lf	24 SHRUBS 36 GC	40 SHRUBS 60 GC
EAST FACADE LENGTH:	0.10550	54 LF
(1) TREE/40 LF (20) SHRUBS/40 LF	2 TREES 27 SHRUBS	2 TREES 40 SHRUBS
(30) GROUNDCOVERS/40 LF	27 SHRUBS 41 GC	40 SHRUBS 98 GC
LANDSCAPE BUFFERS		
SEC. 13-443(7) ADJ. TO R.O.W MIN 20-FT. WIDE		
SOUTH - (COCONUT CREEK PARKWAY)		210 LF
(1) TREE/40 LF INCLUDES (5) EXISTING TREES	6 TREES	6 TREES
(1) PROPOSED TREES CONT. HEDGE		29 SHRUBS*
*PLUS EXISTING HEDGE SHRUBS (40/2000SF OF O.S)		
(4,310 SF /2,000 X 40)	87 SHRUBS	117 SHRUBS
GROUNDCOVERS		157 PLANTS
PERIMETER BUFFER MIN 10-FT. WIDE SEC. 13-443(8)		
WEST - 5' WIDE PROVIDED		170 LF
(1) TREE/40 LF INCLUDES (3) EXISTING TREES	5 TREES	5 TREES
(2) PROPOSED TREES CONT. HEDGE		53 SHRUBS
NORTH - 5' WIDE PROVIDED		150 LF
(210 LF LESS 60' ACCESSWAY) (1) TREE/40 LF	4 TREES	4 TREES
INCLUDES (4) PROPOSED TREES	4 INCES	
CONT. HEDGE		32 SHRUBS
EAST - (1) TREE/40 LF	4 TREES	162 LF 4 TREES
INCLUDES (4) EXISTING TREES		
INCEODES (4) EXISTING TREES		20 SHRUBS*

4 TREES

118 SF

6 TREES

4 TREES

934 SF.

6 TREES

15,354 SF. (44.2%)

(1) TREE / PARKING ISLAND

SOUTH - (COCONUT CREEK PARKWAY)

(1) TREE/40 LF
AINCLUDES (3) EXISTING FREES (WITHIN R.O.W.)

(3) PROPOSED TREES (ON-SITE)

OTHER VUA: (TOTAL VUA - (# SPACES X 300)

TOTAL VEHICULAR USE AREA:

(1 SF/ 100 SF OTHER VUA)

15,354 SF - (12 X 300) = 11,754 SF ADDITIONAL VUA LANDSCAPE AREA

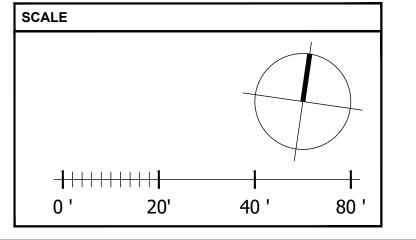
Existing Tree Replacement

TOTAL CANOPY REM	OVED:	3,940 SF
MITIGATION:	(12) CAT. 1 TREES @ 300 SF = 3, (18) CAT. 2 TREES @ 150 SF = 2, (9) CAT. 3 TREE @ 100 SF = 90	700 SF
TOTAL MITIGATION PR	ROVIDED:	7,200 SF

PLEASE NOTE: A TREE REMOVAL PERMIT MUST BE PRIOR TO ANY CONSTRUCTION.

Addtional Requirements

l l		
	REQUIRED/	DDO) (IDED
	PERMITTED	PROVIDED
TOTAL TREES REQUIRED:	55 TREES	55 TREES
INCLUDES (16) EXISTING TREES (39) PROPOSED TREES		
CATEGORY 1 TREES (MIN. 40%)	22 TREES	25 TREES (45%)
INCLUDES (13) EXISTING TREES (12) PROPOSED TREES		
CATEGORY 2 TREES (MIN. 30%)	16 TREES	20 TREES (36%)
INCLUDES (2) EXISTING TREES (18) PROPOSED TREES		
CATEGORY 3 TREES (MAX. 30%)	16 TREES (MAX) 10 TREES (18%)
INCLUDES (1) EXISTING TREES (4 PALMS (9) PROPOSED TREES	S)	
(7) I NOI OSED INCES		
NATIVE: 50% OF EACH CATEGORY		10 TREES (1000)
LG. TREES: (12 PLANTS) MD. TREES: (18 PLANTS)	6 TREES 9 TREES	12 TREES (100%) 15 TREES (83%)
SM. TREES: (9 PLANTS)	5 TREES	5 TREES (55%)
SHRUBS: (403 PLANTS)	202 PLANTS	218 PLANTS (54%)
SM. SHRUBS/		
GROUNDCOVERS (1,146 PLANTS)	573 PLANTS	573 PLANTS (50%)
40% TREE CANOPY:	13,904 SF	17,425 SF (50%)
SITE AREA= 34,759 SF X 0.40 =		
CANOPY REMAINING = 10,375 SF CANOPY REPLACED = 7.050 SF		
CANOLI KLI LACED - 7,030 3F		





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SEAL PATRICK D. CUNNINGHAM FL REG. NO. LA0001669

ISSUE BY DATE DESCRIPTION | PDC | 09/05/24 | PERMIT SET | PDC | 12/20/24 | DRC COMMENTS #1 | PDC | 04/28/25 | DRC ROUND 3 ⚠ | PDC | 06/25/25 | DRC ROUND 4

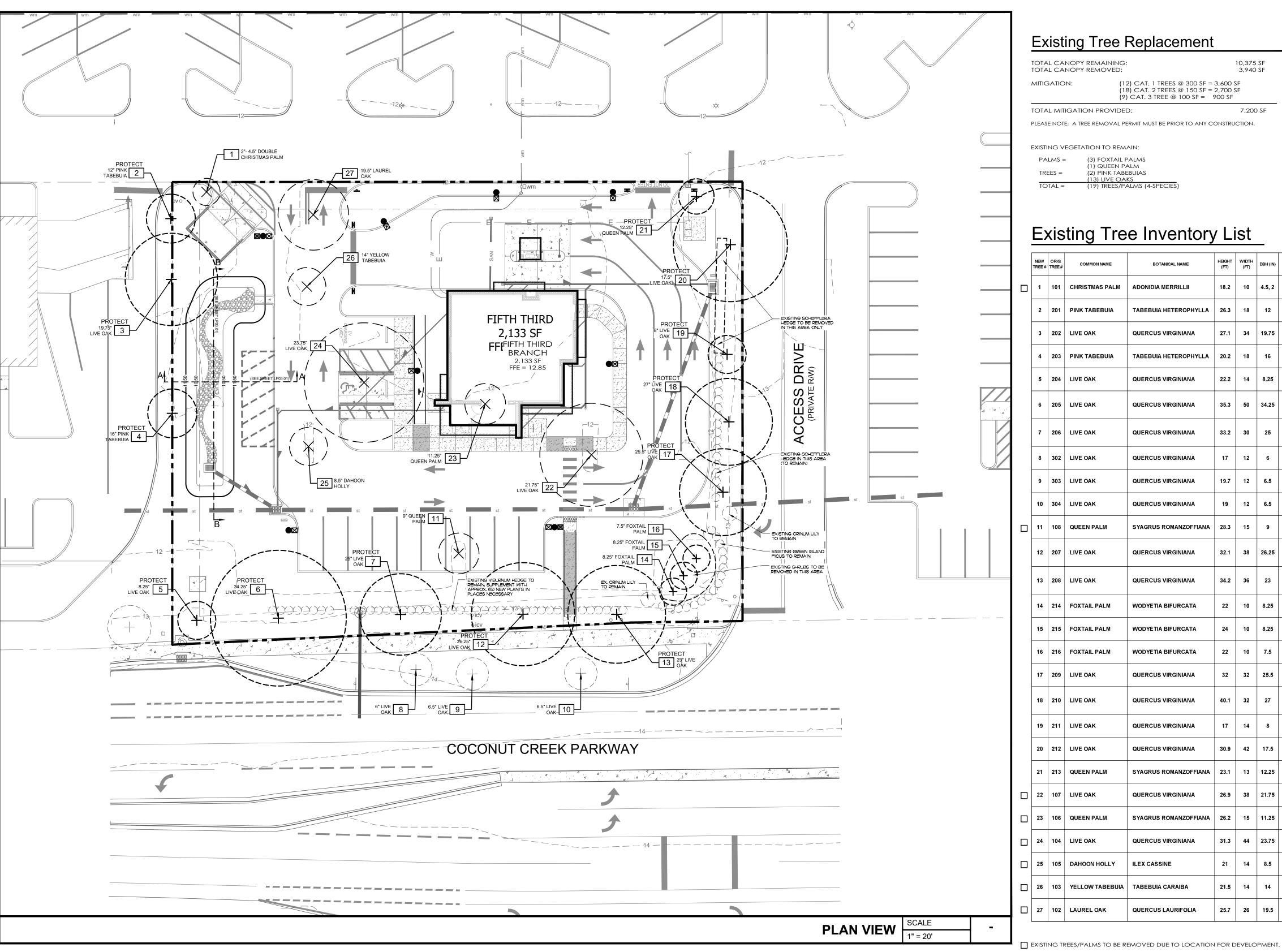
PROJECT INFORMATION BLOCK JOB# DATE: 09/05/2024 DRAWN BY:

PDC

CHECKED BY:

SHEET TITLE

LANDSCAPE PLAN



Existing Tree Replacement

TOTAL CANOPY REMAINING: TOTAL CANOPY REMOVED:

> (12) CAT. 1 TREES @ 300 SF = 3,600 SF (18) CAT. 2 TREES @ 150 SF = 2,700 SF

(9) CAT. 3 TREE @ 100 SF = 900 SF TOTAL MITIGATION PROVIDED:

ADONIDIA MERRILLII

QUERCUS VIRGINIANA

QUERCUS VIRGINIANA

QUERCUS VIRGINIANA

QUERCUS VIRGINIANA

QUERCUS VIRGINIANA

QUERCUS VIRGINIANA

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WODYETIA BIFURCATA

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QUERCUS LAURIFOLIA

ILEX CASSINE

SYAGRUS ROMANZOFFIANA

SYAGRUS ROMANZOFFIANA 23.1

SYAGRUS ROMANZOFFIANA

TABEBUIA HETEROPHYLLA

TABEBUIA HETEROPHYLLA

22.2

33.2 30

PLEASE NOTE: A TREE REMOVAL PERMIT MUST BE PRIOR TO ANY CONSTRUCTION.

(13) LIVE OAKS (19) TREES/PALMS (4-SPECIES)

EXISTING VEGETATION TO REMAIN: PALMS = (3) FOXTAIL PALMS (1) QUEEN PALM (2) PINK TABEBUIAS

PINK TABEBUIA

203 PINK TABEBUIA

206 LIVE OAK

302 LIVE OAK

303 LIVE OAK

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land planning

(561) 352-7687

DISPOSITION

REMOVE

REMAIN

REMAIN

REMAIN

REMAIN

REMAIN

REMAIN

REMOVE

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REMOVE

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REMOVE

REMOVE

1,120

POOR STRUCTURE, CANOPY CROWDING, CONFINED ROOT

POOR STRUCTURE, CONFINED ROOT SPACE, WATER

SPROUTS, MINOR DEADWOOD, OVER LIFTED CANOPY,

POOR STRUCTURE, CANOPY DIEBACK, DEADWOOD.

POOR STRUCTURE, CANOPY CROWDING, TRUNK LEAN

POOR STRUCTURE, CANOPY CROWDING, CONFINED ROOT SPACE, DIRECTIONAL PRUNING AWAY FROM LIGHT POLE,

OVER LIFTED CANOPY, INSUFFICIENT ROOTBALL FOR

POOR STRUCTURE, CONFINED ROOT SPACE, HEADING CUTS, MINOR DEADWOOD, OVER LIFTED CANOPY,

CANOPY CROWDING, TRUNK LEAN, GIRDLING ROOTS, POOR

CANOPY CROWDING, TRUNK LEAN, BURIED ROOT COLLAR.

CANOPY CROWDING, TRUNK LEAN, BURIED ROOT COLLAR

POOR STRUCTURE, CANOPY CROWDING, CONFINED ROOT SPACE, DIRECTIONAL PRUNING AWAY FROM LIGHT POLE,

POOR STRUCTURE, CANOPY CROWDING, CONFINED ROOT SPACE, CANOPY DIEBACK, TRUNK LEAN, DEADWOOD,

DIEBACK, DEADWOOD, WATER SPROUTS, OVER LIFTED

POOR STRUCTURE, CANOPY CROWDING, CONFINED ROOT SPACE, CANOPY DIEBACK, TRUNK LEAN, DEADWOOD, OVER LIFTED CANOPY, LARGE TRUNK WOUND

POOR STRUCTURE, POOR VIGOR, DEADWOOD, BURIED

POOR STRUCTURE, DEADWOOD, CANOPY DIEBACK, LARGE

POOR STRUCTURE, TRUNK LEAN, SIGNIFICANT CONFINED

ROOT SPACE, CANOPY DIEBACK, OVER LIFTED CANOPY

POOR STRUCTURE, OVER LIFTED CANOPY, CONFINED ROOT SPACE, MINOR CANOPY DIEBACK, WATER SPROUTS, INSUFFICIENT ROOTBALL FOR RELOCATION

TRUNK LEAN, CONFINED ROOT SPACE, MINOR CANOPY DIEBACK, INSUFFICIENT ROOTBALL FOR RELOCATION

POOR STRUCTURE, CANOPY DIEBACK, BURIED ROOT

POOR STRUCTURE, CANOPY DIEBACK, CONFINED ROOT

SPACE, VISUAL EVIDENCE OF DECAY, UNBALANCED

FLORIDA INVASIVE SPECIES COUNCIL CATEGORY II

OVER LIFTED CANOPY, INSUFFICIENT ROOTBALL FOR

FLORIDA INVASIVE SPECIES COUNCIL CATEGORY II

INVASIVE, TRUNK WOUND, VERTICAL CRACK

RELOCATION

TRUNK WOUND

INVASIVE, NUTRIENT DEFICIENCY

INVASIVE, NUTRIENT DEFICIENCY

COLLAR, TRUNK LEAN

POOR STRUCTURE, LARGE TRUNK WOUND

DIRECTIONAL PRUNING AWAY FROM MAST ARM. NSUFFICIENT ROOTBALL FOR RELOCATION

INSUFFICIENT ROOTBALL FOR RELOCATION

SPACE, CANOPY DIEBACK

CANOPY (SQ. FT.)

CTLA 10TH EDITION

APPRAISAL (\$)

N/A

\$17,200.00

\$9,200,00

N/A

N/A

\$10,100.00

N/A

N/A

N/A

N/A

\$8,500.00

RELOCATABLE

HEALTH CONDITION

FAIR

GOOD

FAIR

FAIR

FAIR

FAIR

FAIR

FAIR

FAIR

FAIR

FAIR

POOR

POOR

FAIR

FAIR

13 | 12.25 | 17.10

15 | 11.25 | 20.20

25.7 26 19.5

22.30

HEALTH

53%

54%

64%

53%

62%

61%

47%

53%

44%

47%

61%

47%

53%

53%

62%

57%

55%

architects CUNNINGHAM, LLC 400 N Ashley Drive, Suite. 600 landscape architecture Tampa, FL 33602 519 Sapphire Drive Sarasota, FL 34234

P: 813 - 323 - 9233 Lic. #: AA - 0003590 W: www.bdgllp.com

ESTIMATED

FIFTH THIRD

REEK

INFINITY

INFINITY ENGINEERING GROUP, LLC 1208 East Kennedy Boulevard Tampa, Florida 33602 [p]: 813.434.4770 [f]: 813.445.4211 www.iegroup.net FL Cert. of Auth. No 27889

IEG JOB NO. 15-328.00 **SEAL** PATRICK D. CUNNINGHAM FL REG. NO. LA0001669

DATE

ISSUE BY DATE DESCRIPTION | PDC | 09/05/24 | PERMIT SET | PDC | 12/20/24 | DRC COMMENTS #1 | PDC | 04/28/25 | DRC ROUND 3

PROJECT INFORMATION BLOCK JOB# DATE: 09/05/2024 DRAWN BY: CHECKED BY: PDC

SHEET TITLE

TREE INVENTORY PLAN

SHEET NUMBER

EXISTING TREE TO BE REMOVED

AND/OR RELOCATED

EXISTING TREE/PALM TO REMAIN

EXISTING TREE/PALM I.D. TAG

EXISTING OFF-SITE TREE/PALM

TPZ - TREE PROTECTION ZONE

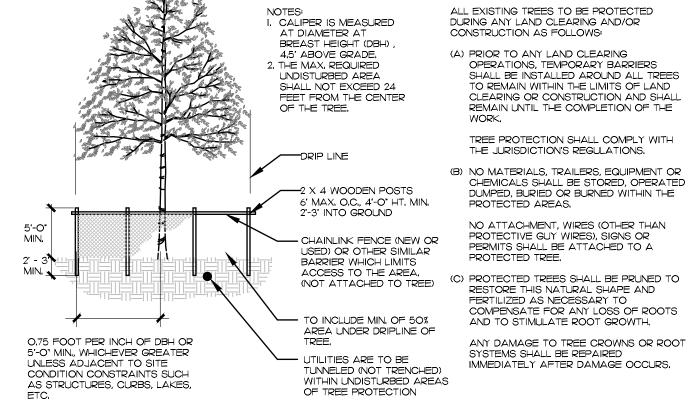
DBH & COMMON NAME

I, THE EXISTING TREE LOCATIONS AND SIZES (DBH) DEPICTED WITHIN THE LANDSCAPE PLAN SET ARE TAKEN FROM THE CERTIFIED SURVEY DATED JUNE 27, 2024, PREPARED

- TREE PER TREE (| ; 1) RATIO,
- 5. A CERTIFIED ARBORIST, NOT THE LANDSCAPE ARCHITECT IS RESPONSIBLE FOR ANY
- 6. THE AREA WITHIN THE DRIP LINE OF EXISTING TREES AND/OR PALMS SCHEDULED TO

STORAGE OR CONSTRUCTION MATERIALS.

- 7. THE FOLLOWING ACTIVITIES ARE PROHIBITED WITHIN THE DRIP LINE OF PRESERVED A. IMPROVEMENTS, FILL, MACHINERY AND VEHICLE TRAVEL OR PARKING
- BASE OF THE TREES AND/OR PALMS TO BE PRESERVED AS FOLLOWS: A, TREES/PALMS IO-IN, OR LESS DBH, = 5-FT, MIN, FROM BASE OF TREE TO BE



OPERATIONS, TEMPORARY BARRIERS

SHALL BE INSTALLED AROUND ALL TREES

O REMAIN WITHIN THE LIMITS OF LAND CLEARING OR CONSTRUCTION AND SHALL

REMAIN UNTIL THE COMPLETION OF THE

TREE PROTECTION SHALL COMPLY WITH

NO ATTACHMENT, WIRES (OTHER THAN

COMPENSATE FOR ANY LOSS OF ROOTS

ANY DAMAGE TO TREE CROWNS OR ROOT

IMMEDIATELY AFTER DAMAGE OCCURS.

AND TO STIMULATE ROOT GROWTH,

PROTECTIVE GUY WIRES), SIGNS OR

PERMITS SHALL BE ATTACHED TO A

FERTILIZED AS NECESSARY TO

SYSTEMS SHALL BE REPAIRED

PROTECTED TREE.

THE JURISDICTION'S REGULATIONS.

EXISTING TREE INFORMATION IS TAKEN FROM A VARIETY OF SOURCES TO INCLUDE THE CERTIFIED SURVEY, CERTIFIED ARBORIST REPORT, SITE OBSERVATIONS, AND SITE PHOTOGRAPHS, AND RELIED ON BY THE LANDSCAPE ARCHITECT.

EXISTING TREES THAT ARE IN CONFLICT WITH ANY EXISTING ELEMENT SUCH AS OVERHEAD AND/OR UNDERGROUND UTILITIES, LIGHTING, SIDEWALKS, BUILDING AND/OR CANOPIES, AS WELL AS ANY FLORIDA STATE STATUTES REFERENCED ON SHEET LP03.01 ARE NOT THE RESPONSIBILITY OF THE LANDSCAPE ARCHITECT.

> SCALE 40 ' 80 20'



BY EBI SURVEYING, (813) 886-6080,

2, THE CANOPY SHOWN ON THE PLANS ARE GRAPHIC AND DO NOT ACCURATELY REPRESENT EXISTING CANOPY. 3. PROPOSED MITIGATION: EXISTING TREES TO BE REMOVED ARE TO BE REPLACED AT A

4. A TREE REMOVAL PERMIT IS REQUIRED PRIOR COMMENCEMENT OF DEVELOPMENT

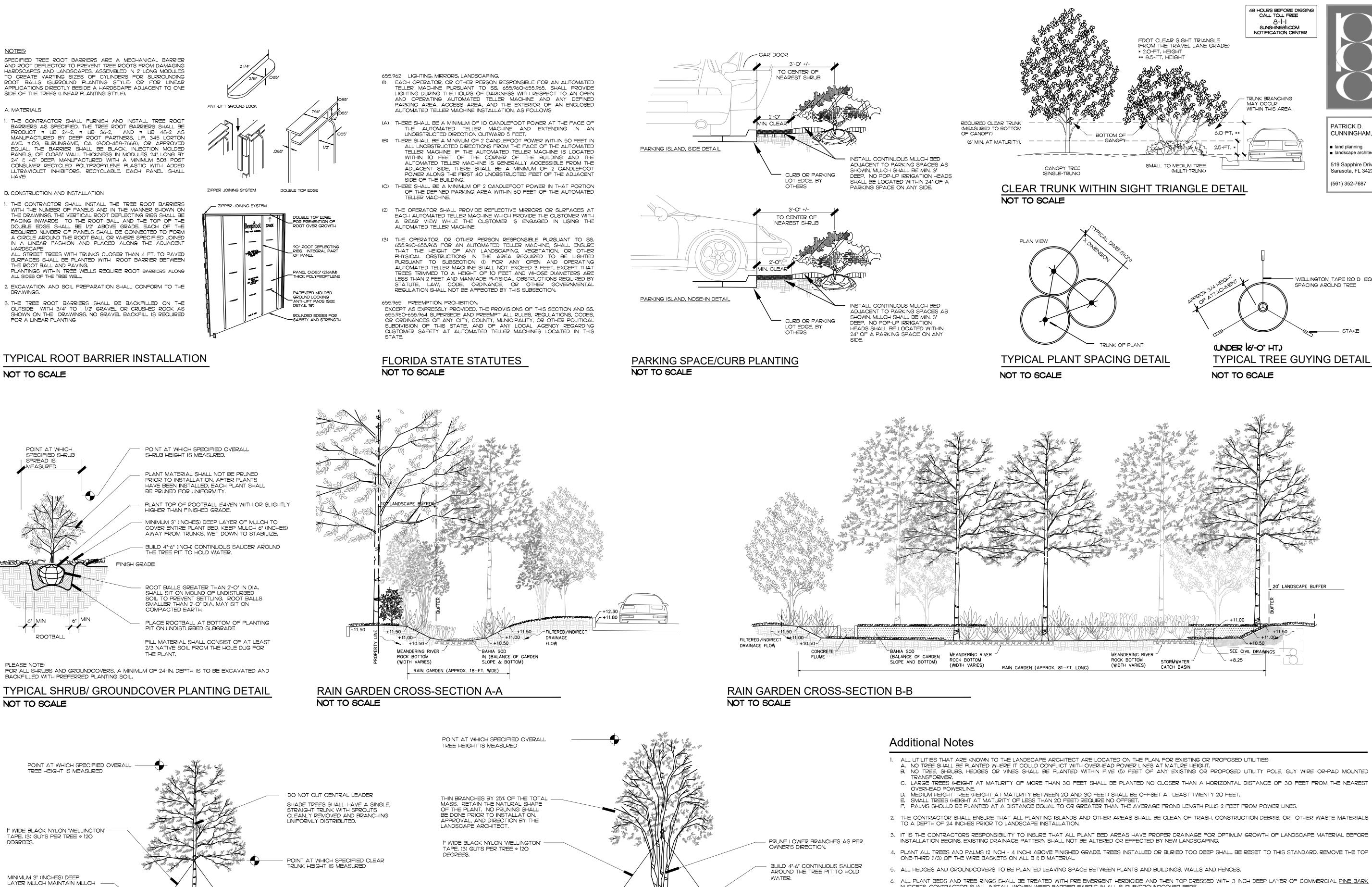
TREE EVALUATION IF REQUIRED BY THE COUNTY.

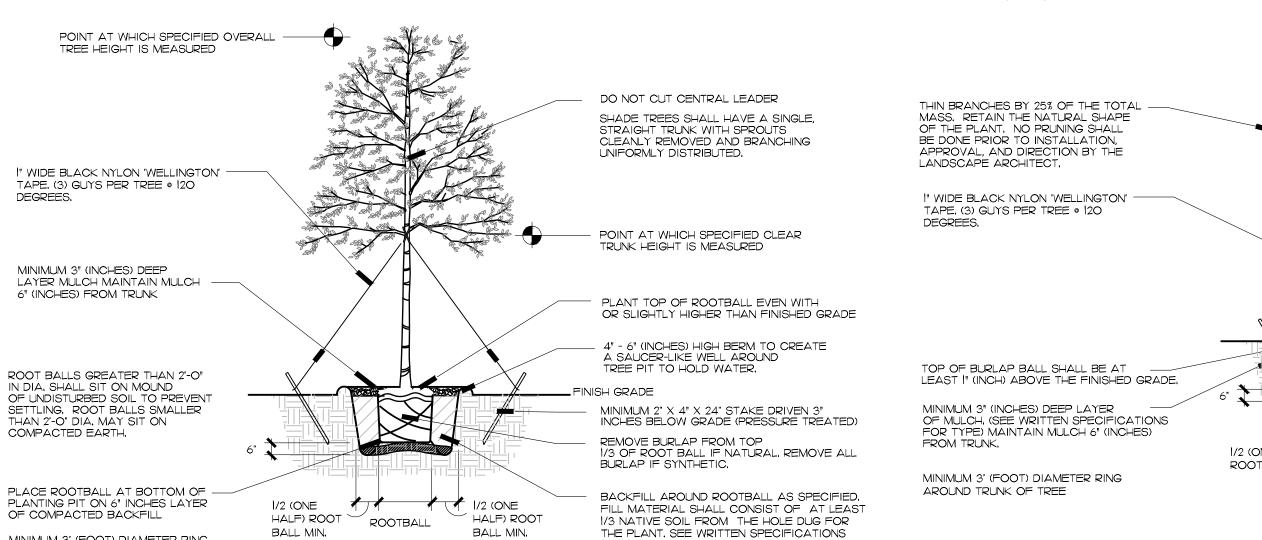
REMAIN AND BE PROTECTED, SHALL BE UNDISTURBED. 3, UNDERGROUND UTILITIES C. GRADE CHANGES, COMPACTION OF SOIL, OR EXCAVATION

8, THE TREE PROTECTION BARRICADES SHALL CONSIST OF A CHAINLINK FENCE OR ORANGE SAFETY FENCE PER THE DETAIL UNLESS OTHERWISE APPROVED BY THE

9. IF POSSIBLE, BARRICADES SHALL BE ERECTED AT A MINIMUM DISTANCE FROM THE B. TREES/PALMS GREATER THAN 10-IN, DBH. = 10-FT., PLUS 1-FT. FOR EACH ADDITIONAL INCH DBH GREATER THAN 10-IN, FROM BASE OF TREE TO BE

TYPICAL TREE PROTECTION DETAIL NOT TO SCALE





THE PLANT, SEE WRITTEN SPECIFICATIONS

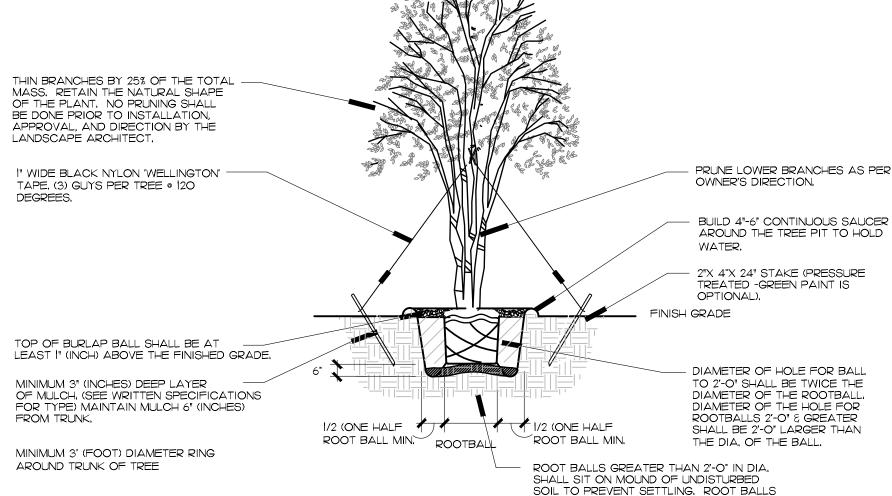
FOR BACKFILL MIXTURE,

TYPICAL TREE PLANTING DETAIL NOT TO SCALE

BALL MIN.

MINIMUM 3' (FOOT) DIAMETER RING

AROUND TRUNK OF TREE



TYPICAL IRREGULAR/MULTI-TRUNK TREE PLANTING DETAIL NOT TO SCALE

SMALLER THAN 2'-O" DIA. MAY SIT ON

COMPACTED EARTH,

- F. PALMS SHOULD BE PLANTED AT A DISTANCE EQUAL TO OR GREATER THAN THE AVERAGE FROND LENGTH PLUS 2 FEET FROM POWER LINES,
- 2. THE CONTRACTOR SHALL ENSURE THAT ALL PLANTING ISLANDS AND OTHER AREAS SHALL BE CLEAN OF TRASH, CONSTRUCTION DEBRIS, OR OTHER WASTE MATERIALS
- 3, IT IS THE CONTRACTORS RESPONSIBILITY TO INSURE THAT ALL PLANT BED AREAS HAVE PROPER DRAINAGE FOR OPTIMUM GROWTH OF LANDSCAPE MATERIAL BEFORE

- NUGGETS, CONTRACTOR SHALL INSTALL WOVEN WEED BARRIER FABRIC IN ALL SHRUB/GROUNDCOVER BEDS.
- 7. HAND DIGGING HOLES FOR INSTALLING PROPOSED TREES IN CLOSE PROXIMITY TO UTILITIES IS REQUIRED TO AVOID CONFLICTS.
- 8. ALL EXOTIC VEGETATION TO BE REMOVED FROM THE SITE PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
- 9. NEW SOD SHALL BE ST, AUGUSTINE SOD AND ARGENTINE BAHIA GRASS AS SHOWN ON THE PLAN, THE QUANTITY SHOWN ON THE PLANT LIST IS AN ESTIMATE AND CONTRACTOR SHALL DETERMINE EXACT QUANTITIES IN THE FIELD, SOD AREAS TO BE MAINTAINED BY THE CONTRACTOR FROM THE TIME OF INSTALLATION TO THE TIME
- 10. THE LANDSCAPE ARCHITECT MAY INSPECT TREES AND SHRUBS WHETHER AT PLACE OF GROWTH OR AT SITE BEFORE PLANTING, FOR COMPLIANCE WITH THE REQUIREMENTS FOR GENUS, SPECIES, VARIETY, SIZE AND QUALITY, LANDSCAPE ARCHITECT RETAINS RIGHT TO FURTHER INSPECT TREES AND SHRUBS FOR SIZE AND CONDITION OF BALLY REPORTED TO REJECT UNSATISFACTORY OR DEFECTIVE MATERIAL AT ANY TIME DURING PROGRESS OF WORK, REMOVE REJECTED TREES OR SHRUBS IMMEDIATELY FROM PROJECT SITE.
- II. ALL MINIMUMS FOR EACH PLANT SPECIFIED WITHIN THE PLANT LIST ARE REQUIRED TO BE MET.
- A. THE HEIGHT AND SPREAD WILL PREVAIL OVER CALIPER AND CONTAINER SIZE,

 B. PERIMETER HEDGES ARE REQUIRED TO BE INSTALLED AT 24-IN, HEIGHT, AND CALCULATED AT A 30-IN, ON-CENTER (O.C.) EQUIVALENT. IF ANY OF THE MINIMUMS ARE NOT MET, THE INSTALLED MATERIAL MAY OR MAY NOT BE REJECTED ON A CASE BY CASE BASIS BY THE LANDSCAPE ARCHITECT, OWNER,
- OR JURISDICTION, FOR EXAMPLE, ALL TREE CALIPER AND CONTAINER SIZES NOTED ON THE PLANT LIST ARE A MINIMUM, CONTRACTOR TO INCREASE THE SIZE IF NECESSARY TO CONFORM TO THE PLANT SIZES AND SPECIFICATIONS.
- 12. NO SUBSTITUTIONS WILL BE ACCEPTABLE, IF SPECIFIED LANDSCAPE MATERIAL IS NOT OBTAINABLE, SUBMIT PROOF OF NON-AVAILABILITY TO LANDSCAPE ARCHITECT AND JURISDICTION TOGETHER WITH THE PROPOSAL FOR USE OF EQUIVALENT MATERIAL
- 13. IN EVENT OF DISCREPANCY, THE PLANTING PLAN SHALL TAKE PRECEDENCE OVER THE PLANT LIST.



PATRICK D.

land planning

CUNNINGHAM, LLC

landscape architecture

519 Sapphire Drive

Sarasota, FL 34234

(561) 352-7687

- WELLINGTON' TAPE 120 D EQUAL

SPACING AROUND TREE

20' LANDSCAPE BUFFER

400 N Ashley Drive, P: 813 - 323 - 9233 Suite. 600 Lic. #: AA - 0003590 Tampa, FL 33602 W: www.bdgllp.com

FIFTH THIRD

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FL Cert. of Auth. No 27889

IEG JOB NO. 15-328.00

SEAL PATRICK D. CUNNINGHAM FL REG. NO. LA0001669

DATE

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| PDC | 09/05/24 | PERMIT SET | PDC | 12/20/24 | DRC COMMENTS #1 | PDC | 04/28/25 | DRC ROUND 3

PROJECT INFORMATION BLOCK JOB#

DRAWN BY **CHECKED BY:**

SHEET TITLE

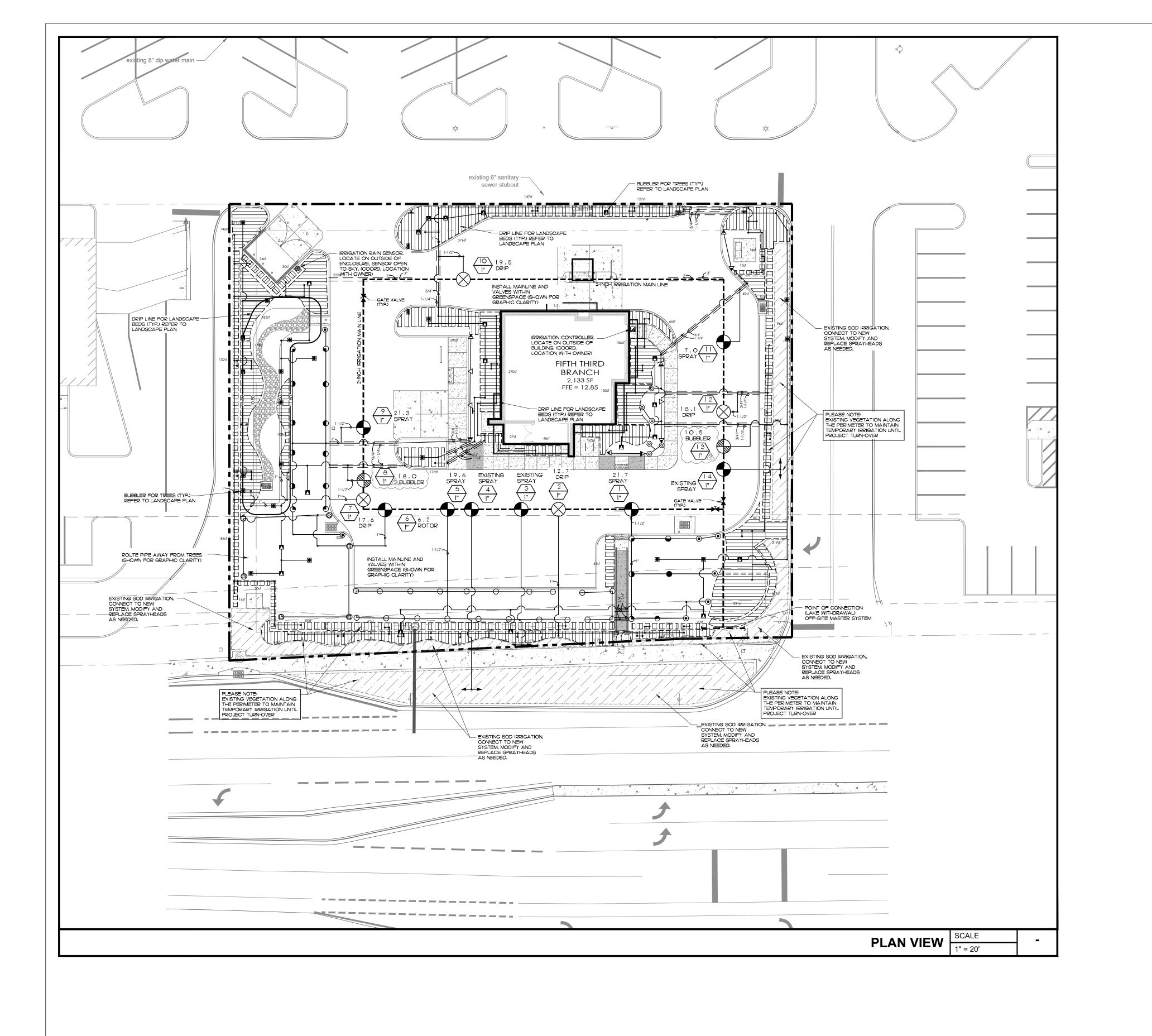
LANDSCAPE **DETAILS**

09/05/2024

PDC

SHEET NUMBER

LP03.01



48 HOURS BEFORE DIGGING 8-1-1 SUNSHINEBILCOM NOTIFICATION CENTER



PATRICK D. CUNNINGHAM, LLC land planning landscape architecture

519 Sapphire Drive Sarasota, FL 34234

(561) 352-7687



400 N Ashley Drive, Suite. 600

P: 813 - 323 - 9233 Lic. #: AA - 0003590 Tampa, FL 33602 W: www.bdgllp.com

Irrigation Legend

PLEASE NOTE: ALL IRRIGATION SPRAY HEADS TO BE 30 PSI REGULATED 6" POP-UP, CO-MOLDED WIPER SEAL WITH UV RESISTANT MATERIAL.

HUNTER PROS-06-PRS30-R 5` STRIP SPRAY ▲ LCS @ 0.65 GPM ▲ RCS @ 0.65 GPM

HUNTER PROS-06-PRS30-R 4` RADIUS

HUNTER PROS-06-PRS30-R 6' RADIUS ■ Q @ 0.51 GPM

H @ 0.98 GPM HUNTER PROS-06-PRS30-R 8' RADIUS

♠ Q @ 0.24 GPM → H @ 0.47 GPM

HUNTER PROS-06-PRS30-R 10' RADIUS

⟨► Q @ 0.42 GPM → H @ 0.88 GPM F @ 1.59 GPM

HUNTER PROS-06-PRS30-R 12` RADIUS (h) Q @ 0.67 GPM

→ H @ 1.30 GPM ○ F @ 2.70 GPM

HUNTER PROS-06-PRS30-R 15' RADIUS

Q @ 0.97 GPM ● H @ 1.69 GPM ■ F @ 3.75 GPM

HUNTER PROS-06-PRS30-R 17` RADIUS

Q @ 1.15 GPM → H @ 2.37 GPM

HUNTER PROS-06-PRS30-R ADJ

8 @ 1.76 GPM 10 @ 2.00 GPM (a) 12 (a) 2.52 GPM

• 15 @ 3.72 GPM 17 @ 4.60 GPM

HUNTER PCB:-R FLOOD BUBBLER, 1/2" FIPT.

50 @ 0.50 GPM10 @ 1.00 GPM

HUNTER MP2000: ROTATOR 13' - 21' RADIUS

Q 17 @ 0.38 GPM H 17 @ 0.64 GPM

T 17 @ 0.98 GPM

F 17 @ 1.28 GPM

HUNTER MP3000: ROTATOR 22' - 30' RADIUS Q 27 @ 0.76 GPM

H 27 @ 1.58 GPM T 27 @ 1.84 GPM

F 27 @ 3.15 GPM

Q 34 @ 1.13 GPM (d) H 34 @ 2.24 GPM

T 34 @ 2.84 GPM

NON-POTABLE IRRIGATION,

ALL IRRIGATION FIXTURES/ EQUIPMENT SPECIFIED TO BE FOR RECLAIMED, RE-USE,

HUNTER MP3500: ROTATOR 31' - 35' RADIUS

AREA TO RECEIVE DRIPLINE

PATTERN. UV RESISTANT.

HUNTER PLD-10-12 (18) IN-LINE PRESSURE COMPENSATING LANDSCAPE DRIPLINE WITH BUILT-IN CHECK VALVE. 1.0 GPH EMITTERS AT 12.0" O.C. DRIPLINE LATERALS SPACED AT 18.0" APART, WITH EMITTERS OFFSET FOR TRIANGULAR

HUNTER PCZ-101-25 DRIP CONTROL VALVE KIT. 1" PGV GLOBE VALVE WITH 1" HY100 FILTER SYSTEM. PRESSURE REGULATION: 25PSI. FLOW RANGE: 0.5 GPM TO 15 GPM. 150 MESH STAINLESS STEEL

HUNTER PGV-101G 1" PLASTIC ELECTRIC REMOTE CONTROL VALVE, FOR RESIDENTIAL/LIGHT COMMERCIAL

AS MAINLINE PIPE.

CONFIGURATION, WITH FLOW CONTROL. 1/2"-4" BRASS GATE VALVE, FULL PORT, WITH SOLID WEDGE. IPS. CROSS HANDLE. SAME SIZE

USE. FEMALE NPT INLET/OUTLET. GLOBE

WEATHERMATIC SL1600 SMARTLINE CONTROLLER W/ SMARTLINK AIRCARD

A ORDERING INFO: MODEL # - SESSLV1600-3YR DESCRIPTION - SL1600 SMARTLINK CONTROLLER (16-ZONE), AIRCARD, SLW5 WEATHER STATION, SOFTWARE AND 3-YEAR SERVICE PLAN WITH WARRANTY AND MONITORING.

WEATHERMATIC SLW5 WIRELESS ON-SITE WEATHER SENSOR

IRRIGATION LATERAL LINE: PVC CLASS 160 SDR 26 PVC CLASS 315 FOR 1/2" PIPE, PVC CLASS 200 FOR 3/4" PIPE

PLEASE NOTE: ONLY LATERAL TRANSITION PIPE SIZES 1" AND ABOVE ARE INDICATED ON THE PLAN, WITH ALL OTHERS BEING 3/4" IN SIZE.

PVC CLASS 160 SDR 26 FOR 1" AND ABOVE.

PVC SCHEDULE 40 IRRIGATION PIPE.

PIPE SLEEVE: PVC SCHEDULE 40

VALVE NUMBER VALVE SIZE VALVE CALL OUT

Sleeve Size Schedule

PIPE SIZE	SLEEVE SIZE
3/4"	1-1/4"
1"	2"
1-1/4"	2-1/2"
1-1/2"	2-1/2"
2"	3"
2-1/4"	4''
3" - 4"	6"

5/3 FIFTH THIRD

THIRD



INFINITY ENGINEERING GROUP, LLC

1208 East Kennedy Boulevard Tampa, Florida 33602 [p]: 813.434.4770 [f]: 813.445.4211 www.iegroup.net

FL Cert. of Auth. No 27889 IEG JOB NO. 15-328.00 **SEAL** PATRICK D. CUNNINGHAM

FL REG. NO. LA0001669

DATE

ISSUE BY DATE DESCRIPTION - | PDC | 09/05/24 | PERMIT SET

↑ PDC 12/20/24 DRC COMMENTS #1 ⚠ | PDC | 06/25/25 | DRC ROUND 4

PROJECT INFORMATION BLOCK JOB# 230649 DATE: 09/05/2024

PDC

DRAWN BY: CHECKED BY:

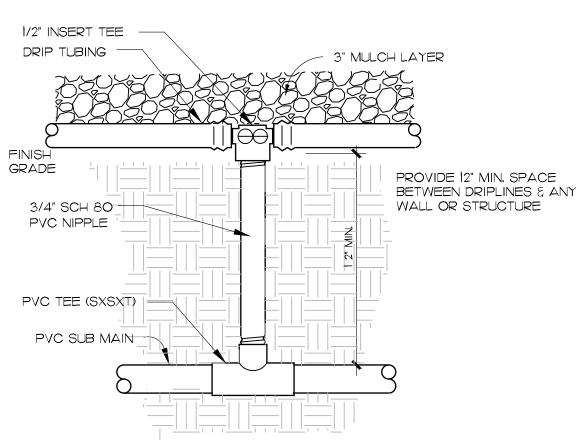
SHEET TITLE

IRRIGATION PLAN

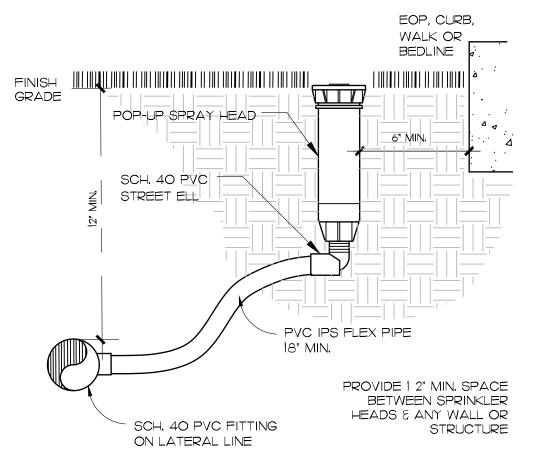
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IR01.01

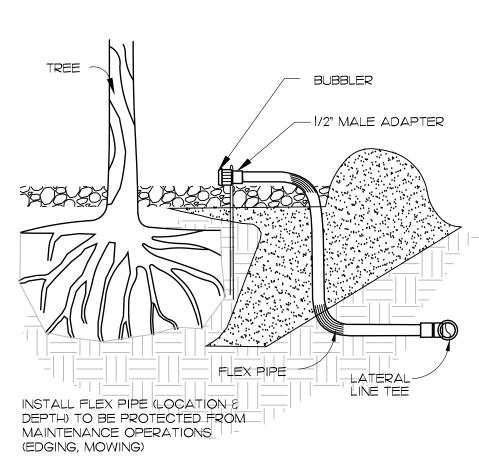
SCALE 20' 40 ' 80 '



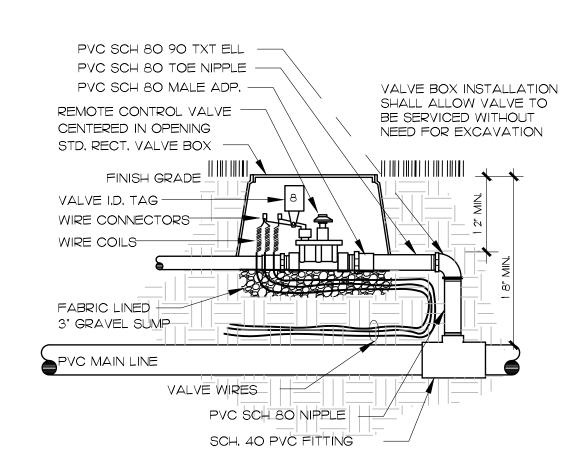
PVC - DRIP CONNECTION NOT TO SCALE



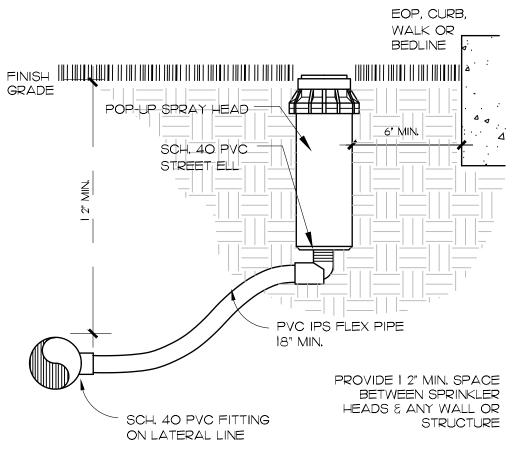
TURF SPRAY HEAD NOT TO SCALE



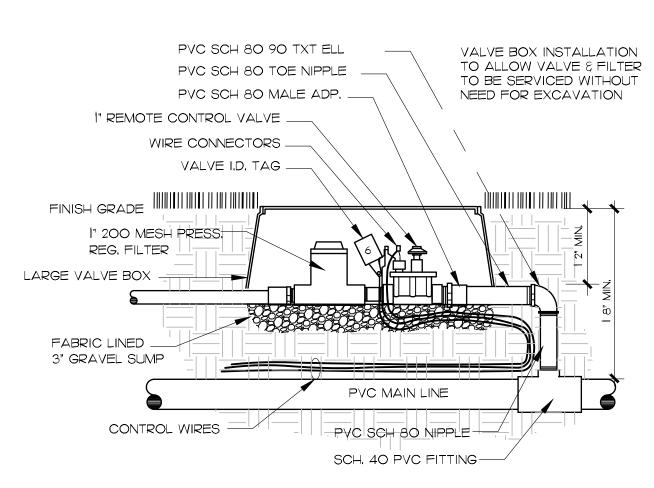
TREE BUBBLER NOT TO SCALE



REMOTE CONTROL VALVE NOT TO SCALE



TURF ROTOR HEAD NOT TO SCALE



20 gpm DRIP ZONE CONTROL VALVE NOT TO SCALE

General Notes

- I. IRRIGATION SYSTEM DESIGN REQUIREMENTS: 28 GPM A 55 PSI AT THE POINT OF CONNECTION, THE IRRIGATION CONTRACTOR SHALL VERIFY THE AVAILABLE GPM AND PSI PRIOR TO INSTALLATION OF THE
- 2. DO NOT INSTALL THE IRRIGATION SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT CONDITIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE DESIGN PROCESS, SUCH AS OBSTRUCTIONS, GRADE DIFFERENCES, WATER LEVELS, DIMENSIONAL DIFFERENCES, ETC. REFER TO THE LANDSCAPE PLAN TO AVOID CONFLICTS WITH PROPOSED TREES OR SHRUBS.
- 3. PIPING MAY SOMETIMES BE INDICATED AS BEING LOCATED IN UNLIKELY AREAS: I.E., UNDER BUILDINGS OR PAVEMENT, OUTSIDE OF PROPERTY LINES, IN LAKES OR DITCHES, ETC. THIS IS DONE FOR GRAPHIC CLARITY ONLY, WHENEVER POSSIBLE, PIPING IS TO BE INSTALLED IN PERVIOUS AREAS,
- 4. ALL COMPONENTS ARE SHOWN AND/OR DEPICTED ON THE PLAN SHEETS REPRESENT APPROXIMATE LOCATION(S) ONLY, AND ARE FOR CLARIFICATION PURPOSES, THE FINAL LOCATION OF ALL COMPONENTS SHALL BE SUBJECT TO APPROVAL BY THE OWNER AND/OR OWNER'S REPRESENTATIVE.
- 5, DO NOT SCALE PLAN FOR EXACT HEAD LOCATION, LOCATION OF ALL SPRINKLER HEADS SHALL BE SITE ADJUSTED TO MINIMIZE WATER OVERTHROW ONTO BUILDING SURFACES AND WALKWAYS, THROTTLE VALVES ON SPRAY ZONES AS REQUIRED TO PREVENT FOGGING.
- 6. PIPE SIZES SHALL CONFORM TO THOSE ON THE DRAWINGS, SUBSTITUTING WITH SMALLER PIPE SIZES WILL NOT BE PERMITTED.
- 7. ALL POP-UP SPRINKLER HEADS SHALL BE INSTALLED LEVEL AND FLUSH TO GRADE.
- 8, MAIN LINE: FITTINGS SHALL BE PVC SCH, 40 JOINT FITTINGS, PIPES PLACED IN SLEEVES SHALL BE SCH, 40 SOLVENT WELD PIPE WITH ADEQUATE RESTRAINTS, SLEEVE LOCATION ARE ACCOMPANIED WITH A 2" ELECTRICAL CHASE FOR THE CONTROL WIRING.
- 9, MAINLINE IS TO BE INSTALLED WITH A MINIMUM OF 18-IN, DEPTH OF COVER, LATERAL LINES ARE TO BE INSTALLED WITH A MINIMUM OF 12" DEPTH OF COVER.
- 10. UNLESS OTHERWISE INDICATED, ALL SLEEVES ARE TO BE PVC SCH 40 AND TWO (2) NOMINAL SIZES LARGER THAN THE PIPE TO BE SLEEVED, FOR EXAMPLE: THE SLEEVE FOR A 2-IN, PIPE SHALL BE 3-IN,
- II. INSTALL VALVES IN MULCHED BEDS AND/OR IN LOW TRAFFIC AREAS, ALL VALVES , FLUSH VALVES AND WIRE SPLICES SHALL BE INSTALLED IN RAIN BIRD WIDE FLANGED, STRUCTURAL FOAM "PLASTIC" VALVES BOXES
- 12. THE BOTTOM AND SIDES OF THE VALVE BOXES SHALL BE LINED WITH LANDSCAPE FABRIC, INSTALL A 3-IN. DEEP BED OF GRAVEL ON THE LANDSCAPE FABRIC TO CREATE A DRAINAGE SUMP.
- 13, INSTALL DRIP TUBING AT GRADE AND COVER WITH MULCH, TYPICAL SPACING FOR DRIP TUBING IS 18-IN, TO 24-IN, ON CENTER, SPACING TO BE DETERMINED BY PLANT LAYOUT, REFER TO LANDSCAPE PLAN, ANCHOR TUBING EVERY 7-FT, WITH 8-IN, LONG WIRE TUBING STAKES, INSTALL FLUSH VALVE ASSEMBLIES AT ALL TUBING "DEAD ENDS",
- 14. EXACT CONTROLLER LOCATION(S) SHALL BE COORDINATED WITH AN OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION, THE IRRIGATION CONTRACTOR IS RESPONSIBLE FOR THE CONNECTION FROM THE POWER SOURCE TO THE CONTROLLER(S), PER MANUFACTURER'S SPECIFICATIONS.
- 15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HARD WIRING ALL ELECTRICAL SERVICE CONNECTIONS, AND SHALL RUN TWO (2) ADDITIONAL SETS OF WIRES IN EACH DIRECTION TO EACH END OF THE MAIN FOR FUTURE
- 16. AT EACH IRRIGATION CONTROLLER, INSTALL A "SECONDARY SURGE ARRESTER" TO THE INCOMING (120 VOLT) POWER SUPPLY (INTERMATIC #AG2401 OR EQUAL).
- 17. A WEATHER BASED SENSOR WITH INTERFACE SHALL BE CONNECTED TO IRRIGATION CONTROLLER, THE SENSOR/ SHALL ADJUST IRRIGATION PROGRAM BASED ON DAILY WEATHER READINGS, SENSOR SHALL BE INSTALLED TO MEET LOCAL CODES AND/OR MINIMUM MANUFACTURER'S RECOMMENDATIONS, OBSTRUCTIONS, VANDALISM AND EASE OF SERVICE SHALL BE CONSIDERED IN LOCATING THE DEVICE.
- 18, IRRIGATION CONTRACTOR SHALL PREPARE AN AS-BUILT DRAWING ON REPRODUCIBLE PAPER DETAILING THE ACTUAL INSTALLATION OF THE IRRIGATION SYSTEM. THE AS-BUILT DRAWINGS SHALL LOCATE ALL MAIN LINE PIPING, CONTROL WIRES, WIRE SPLICES, SLEEVES AND VALVES BY SHOWING EXACT MEASUREMENTS FROM PERMANENT FEATURES (BUILDINGS, EDGE OF PAVEMENT, POWER POLES, FIRE HYDRANTS, ETC.). INCLUDE DEPTH OF COVER ON MAINLINE AND SLEEVES.
- 19. NO PRODUCT SUBSTITUTIONS WILL BE PERMITTED WITHOUT THE WRITTEN PERMISSION OF THE OWNER'S REPRESENTATIVE, IRRIGATION CONTRACTOR TO PROVIDE SUBMITTALS TO THE OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO INSTALLATION.
- 20. ANY OTHER EQUIPMENT REQUIRED THAT IS NOT OTHERWISE DETAILED OR SPECIFIED SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS AND LOCAL CODE.
- 21. THE PROPOSED IRRIGATION IS TO TIE INTO THE EXISTING SYSTEM, WHICH WILL BE RETROFITTED TO PROVIDE 100% COVERAGE.
- 22. IF RE-USE WATER IS USED FOR IRRIGATION, ALL EQUIPMENT IS TO BE SPECIFIED / MARKED AS SUCH IF REQUIRED BY THE JURISDICTION. (PURPLE LATERALS, HEADS, ETC.)
- 23, AN AUTOMATIC IRRIGATION SYSTEM TO BE PROVIDED THAT MEETS OR EXCEEDS THE FULL REQUIREMENTS OF THE LAND DEVELOPMENT REGULATIONS.
- 24. THE OWNER WILL SUPPLY ALL PROPOSED PLANT MATERIAL WITH 100% IRRIGATION (AUTOMATIC) COVERAGE (WITH 50% OVERLAP MINIMUM) WITHIN TEN DAYS OF INITIAL INSTALLATION. THE CONTRACTOR SHALL MAKE ALL ADJUSTMENTS TO THE IRRIGATION SYSTEM TO INSURE 100% COVERAGE.

ALL IRRIGATION FIXTURES/ EQUIPMENT SPECIFIED TO BE FOR RECLAIMED, RE-USE, NON-POTABLE IRRIGATION,

Additional Notes

* * *

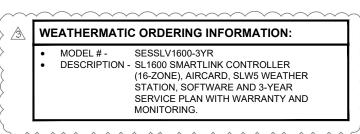
- I. IRRIGATION CONTROLLER IS TO HAVE AN EXTERIOR MOUNTING LOCATION.
- 2. ELECTRICAL IS TO BE HARD-WIRED TO THE CONTROLLER, NOT AN ELECTRICAL OUTLET.
- 3. WEATHERMATIC SL 1600 SMARTLINE CONTROLLER (SEE PHOTO) A, INSTALLS LIKE A NORMAL CONTROLLER--THE EXTERIOR OF THE BUILDING, PREFERABLY NEAR THE UTILITY B. INSTALL INSTRUCTIONS: <u>SLI600 CONTROLLER INSTALLATION INSTRUCTIONS - WEATHERMATIC</u>
- 4. WEATHERMATIC SMART LINK AIRCARD (SEE PHOTO) A, MOUNT NEAR CONTROLLER

OBSTRUCTION SUCH AS TREES, ROOFS, ETC.).

- B, INSTALL INSTRUCTIONS: HTTPS://WWW.WEATHERMATIC.COM/DOWNLOAD/SMARTLINK-AIRCARD-INSTALLATION-QUICK-START/? WPDMDL=19376&REFRESH=628F6EE2B567616535672O2
- 5. WEATHERMATIC SLW5 WIRELESS ON-SITE WEATHER SENSOR (SEE PHOTO)
- , MOUNT IN AN AREA WITH UNOBSTRUCTED AIRFLOW. MOUNTING IS PREFERRED IN DIRECT SUNLIGHT WITH GOOD AIRFLOW. C. THE LOCATION MUST HAVE OPEN ACCESS TO RAINFALL (CANNOT BE COVERED BY ANY OVERHEAD
- D. MOUNT THE SLW5 AS CLOSE AS POSSIBLE TO THE CONTROLLER. E. INSTALL INSTRUCTIONS: <u>SLW5 WIRELESS WEATHER STATION INSTALLATION GUIDE - WEATHERMATIC</u>
- 6, DESIGN DRAWING SPECIFICATION -
- A. WEATHERMATIC SLI600 SMARTLINE CONTROLER W/ SMARTLINK AIRCARD B. WEATHERMATIC SLW5 WIRELESS ON-SITE WEATHER SENSOR

(KELSI, VAQUERA • WEATHERMATIC, COM OR 316.516.3625).

- 7. TO COMMISSION THE WEATHERMATIC SMART IRRIGATION CONTROLLER PLEASE DO THE FOLLOWING: A. FIRST, PLEASE CONFIRM THAT ALL THREE PIECES OF EQUIPMENT (CONTROLLER, WEATHER STATION, AND
- AIRCARD) ARE PROPERLY INSTALLED. B. NEXT, WEATHERMATIC NEEDS THE AIRCARD NUMBER THAT IS ON THE SIDE OF THE AIRCARD (20-DIGIT LONG NUMBER), 1) CONTACT FOR WEATHERMATIC IS CALL OR EMAIL KELSI VAQUERA WITH ANY QUESTIONS
- WHEN SHARING THIS INFORMATION WITH WEATHERMATIC, YOU SHOULD ALSO NOTE THAT THIS IS A FIFTH THIRD BANK CORPORATE LOCATION AND PROVIDE THE SITE ID NUMBER AND ADDRESS, 2.







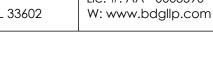
PATRICK D.

CUNNINGHAM, LLC



architects







 $\mathbf{\Omega}$ H H



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IEG JOB NO. 15-328.00 **SEAL** PATRICK D. CUNNINGHAM FL REG. NO. LA0001669

DATE

ISSUE BY DATE DESCRIPTION | PDC | 09/05/24 | PERMIT SET PDC | 04/28/25 | DRC ROUND 3

PROJECT INFORMATION BLOCK

PDC

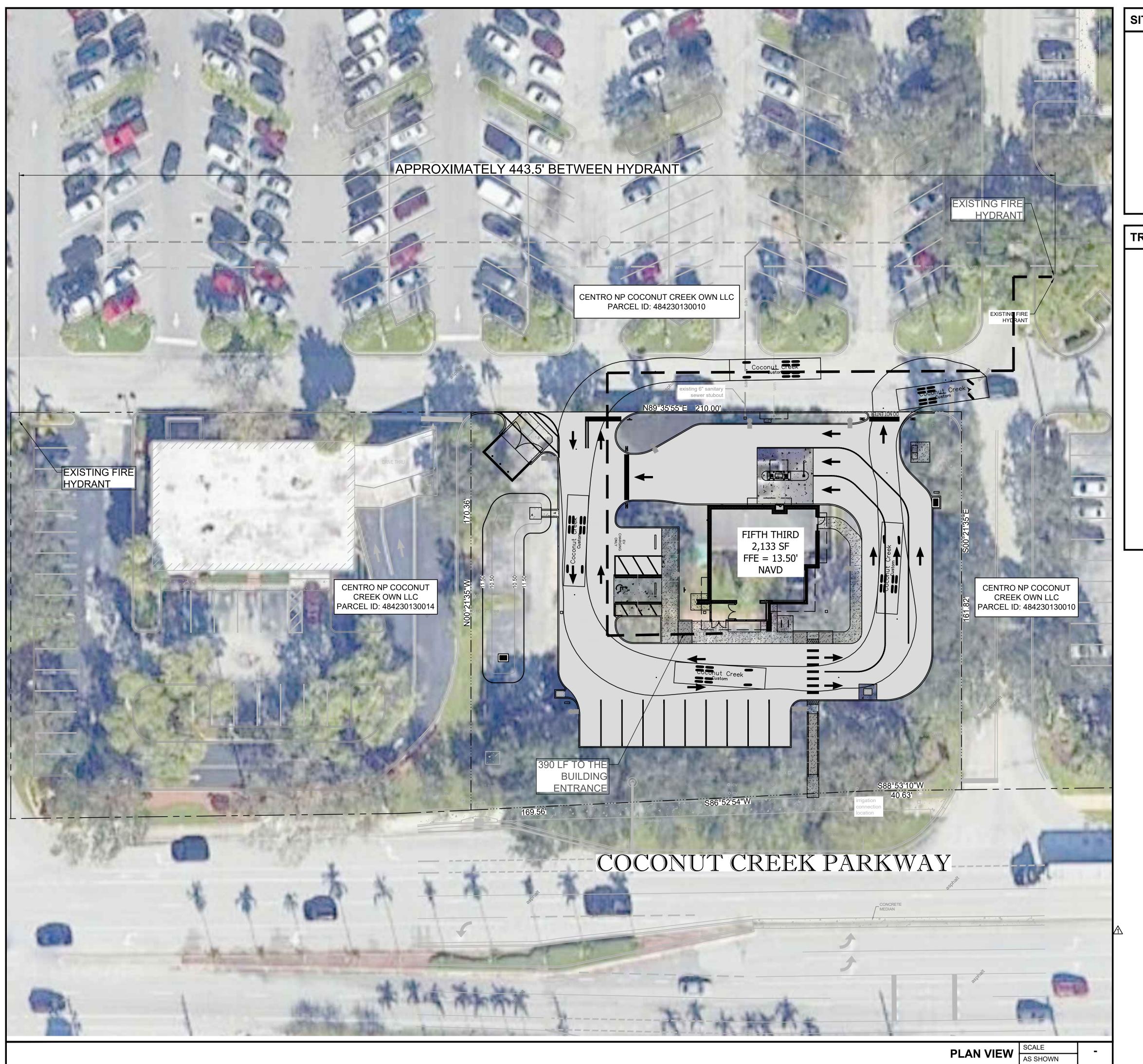
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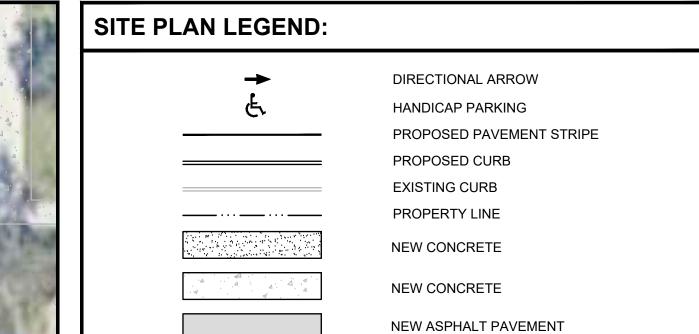
SHEET TITLE

IRRIGATION **DETAILS**

SHEET NUMBER

IR02.01



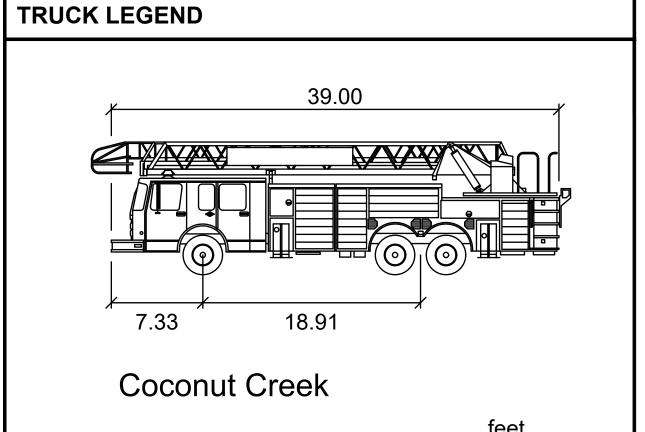




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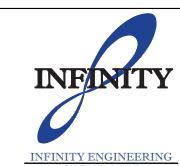
Lock to Lock Time

Steering Angle

EXISTING CONCRETE

CONUT CREEK PARKWAY

FIFTH THIRD



GROUP, PLLC

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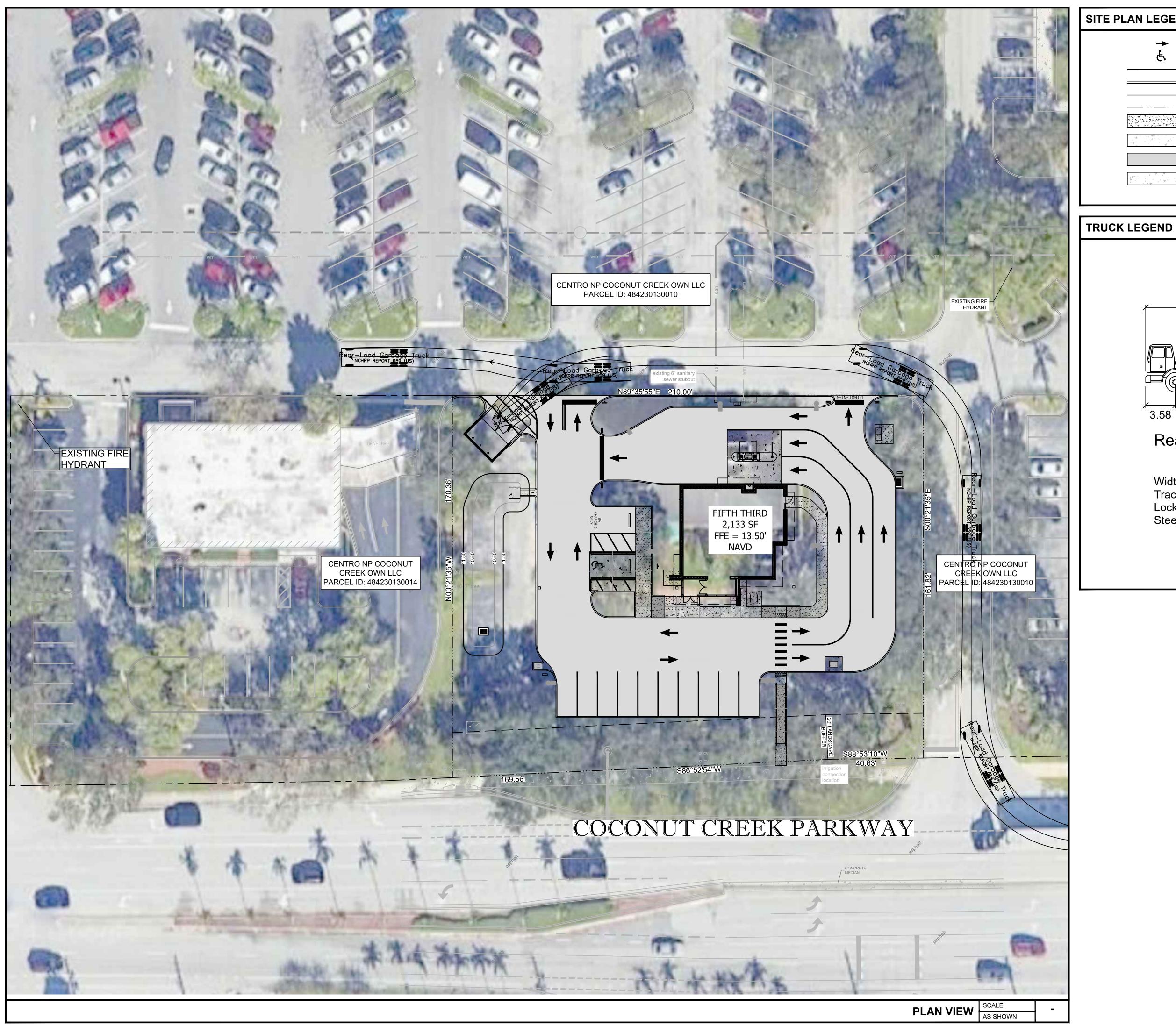
NISIT SAPPARKHAO, P.E. FL REG. NO. 64085

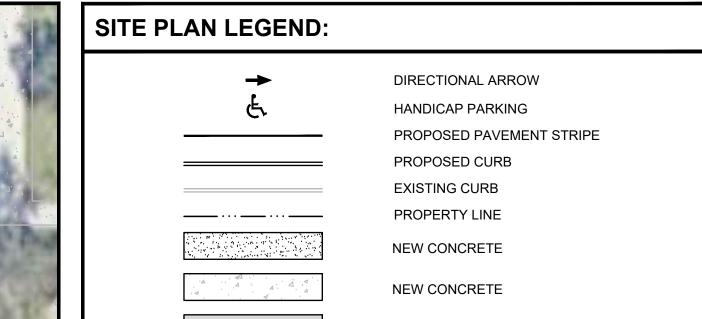
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ISSUE	BY	DATE	DESCRIPTION
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Λ		12/20/24	DRC COMMENTS #1
PRC)JE(CT INFOR	RMATION BLOCK
JOB	#		230649
DATE	:		09/05/24
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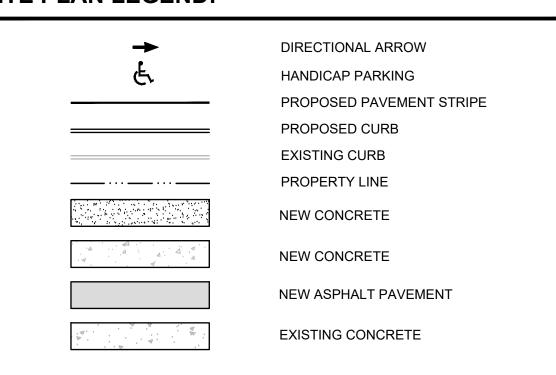
SHEET NUMBER

SA01.01

(FIRE TRUCK)







38.08

22.00

Rear-Load Garbage Truck

: 8.00 : 8.00

: 6.0 : 27.4

¹ 3.58 ¹

Width

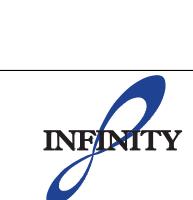
Track

Lock to Lock Time

Steering Angle







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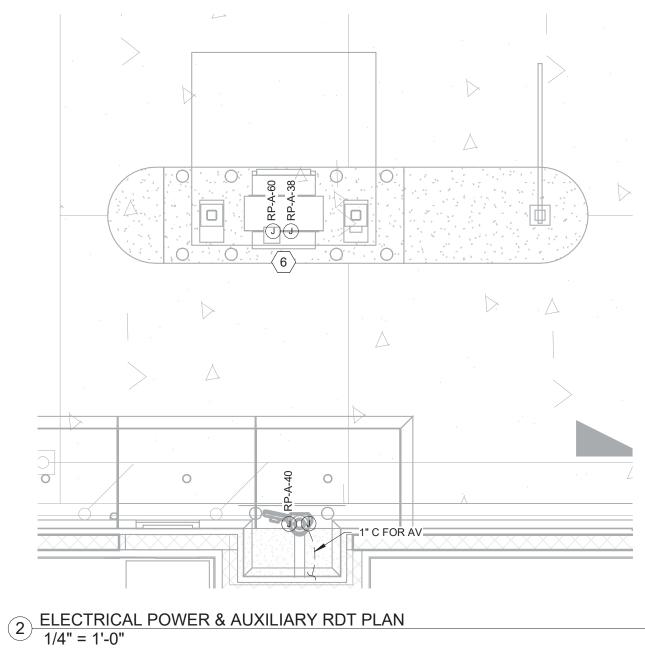
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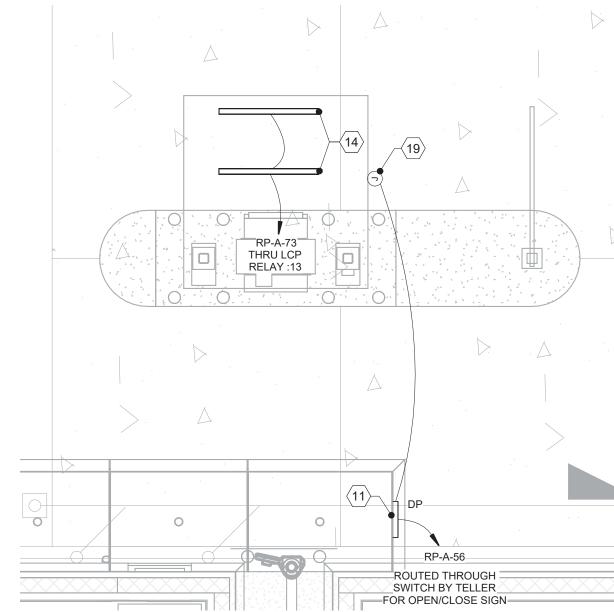
SHEET TITLE SITE ACCESS PLAN (GARBAGE TRUCK)

SHEET NUMBER

SA01.02







3 ELECTRICAL LIGHTING PLAN - RDT PLAN 1/4" = 1'-0"

LIGHTING COMPL	_IAN	CE CHART	
LAMP DESCRIPTIONS	QTY	LUMINAIRE LUMENS	TOTAL
FIXTURE 1P4F	3	15000	45000
FIXTURE 1P4F-2	1	15000	15000
FIXTURE 1P5D	2	10000	20000
FIXTURE 2P4F	2	30000	60000
FIXTURE WM3	2	2000	4000
	144000		
TOTAL PROJE	34758		
**SITE ALLOWED TOTAL (LL		NS PER SEC.13-374(2)d. PER SF X HARDSCAPE)	173790

PROJECT IS COMPLIANT?

YES

			LIGHTING FIXTURE SCHE	DULE (EXTERI	OR)				
LABEL	DESCRIPTION	MFG.	MODEL NUMBER	MOUNTING	LAMP QTY AND TYPE	DIMMING	VOLTS	TOTAL FIXTURE WATTS	NOTES (REFER TO GENERAL AND LAMP AND BALLAST NOTES BELOW)
1P4F	LED FULL CUTOFF AREA LUMINAIRE, 15000 LUMENS, FORWARD DISTRIBUTION, ALUMINUM HOUSING, UL LISTED FOR WET LOCATION. 1-HEAD	GE	FIXTURE: EALS 03 2 F4 AF 7 40 X D D1 DKBZ	POLE MOUNT, **SEE DETAIL FOR POLE HEIGHT	LED	-	208 V	116 VA	
	LED FULL CUTOFF AREA LUMINAIRE, 15000 LUMENS, FORWARD DISTRIBUTION, ALUMINUM HOUSING, DIMMING WITH MOTION SENSOR, UL LISTED FOR WET LOCATION. 1-HEAD	GE	FIXTURE: EALS 03 2 F4 AF 7 40 N D D1 DKBZ H1	POLE MOUNT, **SEE DETAIL FOR POLE HEIGHT	LED	-	208 V	116 VA	DIMMING WITH MOTION SENSOR
1P5D	LED FULL CUTOFF AREA LUMINAIRE, 10000 LUMENS, TYPE 5 DISTRIBUTION, ALUMINUM HOUSING, UL LISTED FOR WET LOCATION. 1-HEAD	GE	FIXTURE: EALS 03 2 D5 SW 7 40 X D D1 DKBZ	POLE MOUNT, **SEE DETAIL FOR POLE HEIGHT	LED	-	208 V	64 VA	
	LED FULL CUTOFF AREA LUMINAIRE, 15000 LUMENS, FORWARD DISTRIBUTION, ALUMINUM HOUSING, DIMMING WITH MOTION SENSOR, UL LISTED FOR WET LOCATION. 2-HEAD, 180° CONFIGURATION	GE	FIXTURE: EALS 03 2 F4 AF 7 40 X D D1 DKBZ H1	POLE MOUNT, **SEE DETAIL FOR POLE HEIGHT	LED	-	208 V	232 VA	DIMMING WITH MOTION SENSOR
DP	DRIVE-THRU CANOPY OPEN/CLOSE LED SIGN	DIRECTIONAL SYSTEMS	5887 (TCL718GR-100/120-277VAC)	SURFACE	LED	-	120 V	20 VA	REFER TO THE ARCHITECTURAL DRAWING FOR MOUNTING HEIGHT
	WALL BRACKET LED LUMINAIRE, DIE CAST ALUMINUM HOUSING, TYPE 3 DISTRIBUTION, DARK BRONZE FINISH. FULL CUTOFF	LSI	XWM 3 LED 2L 40 UE BRZ	WALL MOUNTED AT 10'-6' ABOVE FINISHED GRADE TO CENTERLINE OF FIXTURE		-	120 V	23 VA	CUSTOM 2000 LUMEN OUTPUT. SEE E-130 FOR CONNECTION

PP-20,22 15

→ RP-A-34.36

1P5D LIGHTING

THRU CRITICAL

CONTACTOR

PP-16,18

PROPERTY LINE

1 ELECTRICAL SITE PLAN
1" = 20' 0"

1" = 20'-0"

LIGHTING FIXTURE SCHEDULE NOTES:

MANUFACTURER CATALOG NUMBERS ARE SHOWN FOR GENERAL DESCRIPTIVE PURPOSES AND TO ESTABLISH STANDARD OF QUALITY ONLY. CONTACT CHRIS YOUNG (cyoung@southernlightingsource.com) OR ADAM MAGGIO (amaggio@southernlightingsource.com) (770-242-4000) (53lights@southernlightingsource.com) SOUTHERN LIGHTING SOURCE ON LIGHTING AND LIGHTING CONTROLS. GC/EC SHALL PROVIDE LUMINAIRES COMPLETE WITH ALL OPTIONS AND ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION. ALL PRODUCTS SHALL BE UL LISTED. POLE MOUNTED LIGHT FIXTURES SHALL MATCH

EXISTING DEVELOPMENT AS SPECIFIED. NO EQUALS FOR POLE MOUNTED FIXTURES. POLE MANUFACTURER SHALL COORDINATE WITH LUMINAIRE MANUFACTURER TO PROVIDE ADEQUATE STRENGTH TO SUPPORT THE FIXTURE. PROVIDE APPROPRIATE MOUNTING HARDWARE, ANCHOR BOLTS, BOLT/BASEPLATE COVERS AND GROUNGING LUG. MANUFACTURER SHALL FURNISH AN ANCHOR BOLT TEMPLATE TO ENSURE PROPER MOUNTING AND LUMINAIRE ORIENTATION FOR CORRECT LIGHT DISTRIBUTION. APPROVED EQUAL POLE MANUFACTURERS: DURAGUARD AND VALMONT.

REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS WHICH MAY NOT NECESSARILY BE REFLECTED IN CATALOG NUMBER AND/OR DESCRIPTION IN THIS SCHEDULE

SHEET NOTES:

9

RP-A-77

THRU LIGHTING

CONTACTOR

RP-A-65,67

THRU CRITICAL LIGHTING

CONTACTOR

- COORDINATE ALL SITE CONDUIT ROUTINGS WITH GENERAL CONTRACTOR.
- REFER TO CIVIL PLANS FOR FINAL LOCATION AND ELECTRICAL REQUIREMENTS OF ALL SIGNAGE, UTILITY CONNECTION POINTS, AND SITE UTILITIES/EQUIPMENT SUCH AS LIFT STATIONS, IRRIGATION PUMPS/CONTROLLERS, HOT BOXES, ETC.

ALL UNDERGROUND WIRING SHALL BE LOCATED WITHIN 12" OF BACK OF CURB IN ALL LOCATIONS.

- BACKFILL, TAMP, AND RESURFACE ALL EXISTING PAVEMENT/ASPHALT AND RESTORE ALL EXISTING LANDSCAPING DISTURBED AS A RESULT OF TRENCHING AND/OR DIRECTIONAL BORING TO ITS ORIGINAL CONDITION.
- ALL UTILITY SERVICE SHALL BE VERIFIED WITH THE UTILITY COMPANIES PRIOR TO BIDDING AND ALL RESULTING COSTS SHALL BE INCLUDED IN
- ACTUAL INSTALLATION OF ALL UTILITY SERVICES SHALL BE ACCORDING TO FINAL UTILITY COMPANY PLANS.

PROVIDE PULLWIRE IN ALL EMPTY CONDUITS. USE JOINT TRENCHING WHEREVER POSSIBLE.

ELECTRICAL UTILITY CONTACT:

TELEPHONE UTILITY CONTACT:

KEYED NOTES:

- ROUTE (2)-4"C TO MAIN TELEPHONE SERVICE ENTRANCE. ROUTE TO CLEAR STRUCTURAL FOOTING. CONDUITS SHALL BE STUBBED UP AND CAPPED 12" A.F.F. IN BUILDING. AS-BUILT DRAWINGS MUST SHOW CONDUIT LENGTH AND
- IRRIGATION BACKFLOW. VERIFY LOCATION DISCONNECT SHALL BE NEMA 3R.
- ELECTRIC UTILITY METER. PROVIDE ELECTRIC UTILITY METER PER POWER COMPANY REQUIREMENTS. REFER TO ELECTRICAL RISER DIAGRAM FOR ADDITIONAL INFORMATION. EXACT LOCATION TO BE DETERMINED BY UTILITY COMPANY REPRESENTATIVE IN FIELD.
- SERVICE DISCONNECT. PROPOSED ELECTRICAL SERVICE DISCONNECT MOUNTED ON BUILDING EXTERIOR. REFER TO ELECTRICAL RISER DIAGRAM FOR ADDITIONAL INFORMATION.
- DRIVE-THRU ATM: PROVIDE CONDUIT AND WIRING FOR ATM. REFER TO ELECTRICAL FLOOR PLAN ON SHEET E-500 FOR ADDITIONAL INFORMATION.
- STUB-OUT AND TERMINATE PER UTILITY COMPANY REQUIREMENTS. VERIFY LOCATION OF HIGH VOLTAGE SERVICE POINT PRIOR TO BIDDING AND INCLUDE
- (2)-5"C FOR HIGH VOLTAGE SERVICE FROM PROPERTY LINE TO TRANSFORMER SLABS - VERIFY LOCATION AND ROUTING. HIGH VOLTAGE CONDUIT SHALL BE 48" DEEP. TERMINATE IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS INCLUDING TRENCHING AND BACKFILL TO 90% COMPACTION.
- TRANSFORMER SLAB-BOX WITH TRAFFIC GUARDS PER UTILITY COMPANY REQUIREMENTS. VERIFY SIZE, LOCATION AND ORIENTATION WITH UTILITY COMPANY. CONTRACTOR WILL PROVIDE TRANSFORMER SLABS INSTALLED COMPLETE IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS. PROVIDE ADEQUATE GUARD RAILING AROUND POWER TRANSFORMERS IN PARKING AREAS.
- SECONDARY FROM TRANSFORMER TO MAIN DISCONNECT. VERIFY ROUTING WITH UTILITY COMPANY AND ROUTE TO CLEAR STRUCTURAL FOOTING. SEE RISER DIAGRAM. TERMINATE IN ACCORDANCE WITH PLANS AND SPECIFICATIONS.
- DRIVE THROUGH LANE OPEN/CLOSE GANG SWITCHES. PROVIDE CONSTANT HOT & NEUTRAL. LCP SHALL NOT CONTROL OPEN/CLOSE/ATM SIGNS. SEE DETAIL 3 ON E-501, COORDINATE PLACEMENT WITH ARCHITECT PRIOR TO
- MAINTENANCE RECEPTACLE: PROVIDE 120V, 20A, GFCI WEATHER-RESISTANT DUPLEX RECEPTACLE IN WEATHERPROOF SURFACE MOUNTED BELL BOX
- WITH "EXTRA DUTY WHILE-IN-USE" METALLIC COVER. MONUMENT SIGN POWER: COORDINATE EXACT LOCATION OF SIGNAGE STUB-UP WITH SIGN VENDOR AND MAKE FINAL ELECTRICAL CONNECTIONS. PROVIDE 120V, 20A, TOGGLE SWITCH IN METALLIC BELL BOX WITH METALLIC WEATHERPROOF COVER IF DISCONNECT IS NOT FURNISHED WITH MONUMENT SIGN. COORDINATE EXACT LOCATION WITH CIVIL DRAWINGS.
- CANOPY LIGHT FIXTURE: FACTORY INSTALLED CANOPY LIGHT PROVIDED BY KIOSK MANUFACTURER. EC TO COORDINATE WITH THE MANUFACTURER AND MAKE FINAL CONNECTION.
- FOR FUTURE EV CHARGING STATIONS. PROVIDE FLUSH, IN GRADE QUAZITE, STRAIGHT WALL, FRP 11"X18"X12" BOX WITH A BOLT ON COVER. PROVIDE 2" CONDUIT WITH PULL STRING FROM THE BOX AND STUB UP INTO PANELBOARD. CAP AND SEAL SPARE CONDUIT. COORDINATE WITH CIVIL PLANS PRIOR TO ROUGH-IN.
- SOLAR SYSTEM EQUIPMENT: REFER TO GRID-INTERACTIVE PHOTOVOLTAIC SYSTEM DRAWING FOR RESPONSIBILITY.
 - LIGHT FIXTURE WITH DIMMING CAPABILITY: LIGHT FIXTURE IS PROVIDED WITH DIMMING CAPABILITY WITH MOTION SENSOR. THE FIXTURE SHALL BE PROGRAMMED TO DECREASE LUMEN OUTPUT TO 10% WHEN UNOCCUPIED AND 100% WHEN UNOCCUPIED OR MOTION IS DETECTED.
 - EXISTING LIGHT POLE TO REMAIN: EC TO VERIFY THE CONNECTION OF THIS LIGHT POLE. IF THE WIRING IS FROM FIFTH THIRD'S SIDE, EC SHALL EXTEND THE NEW CIRCUIT AND CONTROL AND CONNECT IT TO THIS LIGHT POLE. IF THE CONNECTION IS FROM THE OTHER SIDE, THIS LIGHT POLE SHALL REMAIN AS IS AND BE PROTECTED DURING CONSTRUCTION.
 - OPEN/CLOSE SIGN FOR REMOTE DRIVE-UP CANOPY. PROVIDE CONSTANT HOT & NEUTRAL. LCP SHALL NOT CONTROL OPEN/CLOSE/ATM SIGNS. SEE DETAIL 9 ON E-500. COORDINATE PLACEMENT WITH ARCHITECT PRIOR TO ROUGH-IN. REMOVE IF IT IS NOT REQUIRED BY THE MANUFACTURER.

architects

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> ANDREW MOHR FL PE# 73077

SEAL

SUBCONTRACTORS OR OTHER TRADES WITH THE DESIGN DOCUMENTS

This item has been electronically signed and sealed by Andrew Mohr, P.E. on the date and/or time stamp shown using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified by a 3rd Party Certificate Authority on any electronic copy. FAC 61G15-23.004



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2 K 04/28/25 DRC Round 3

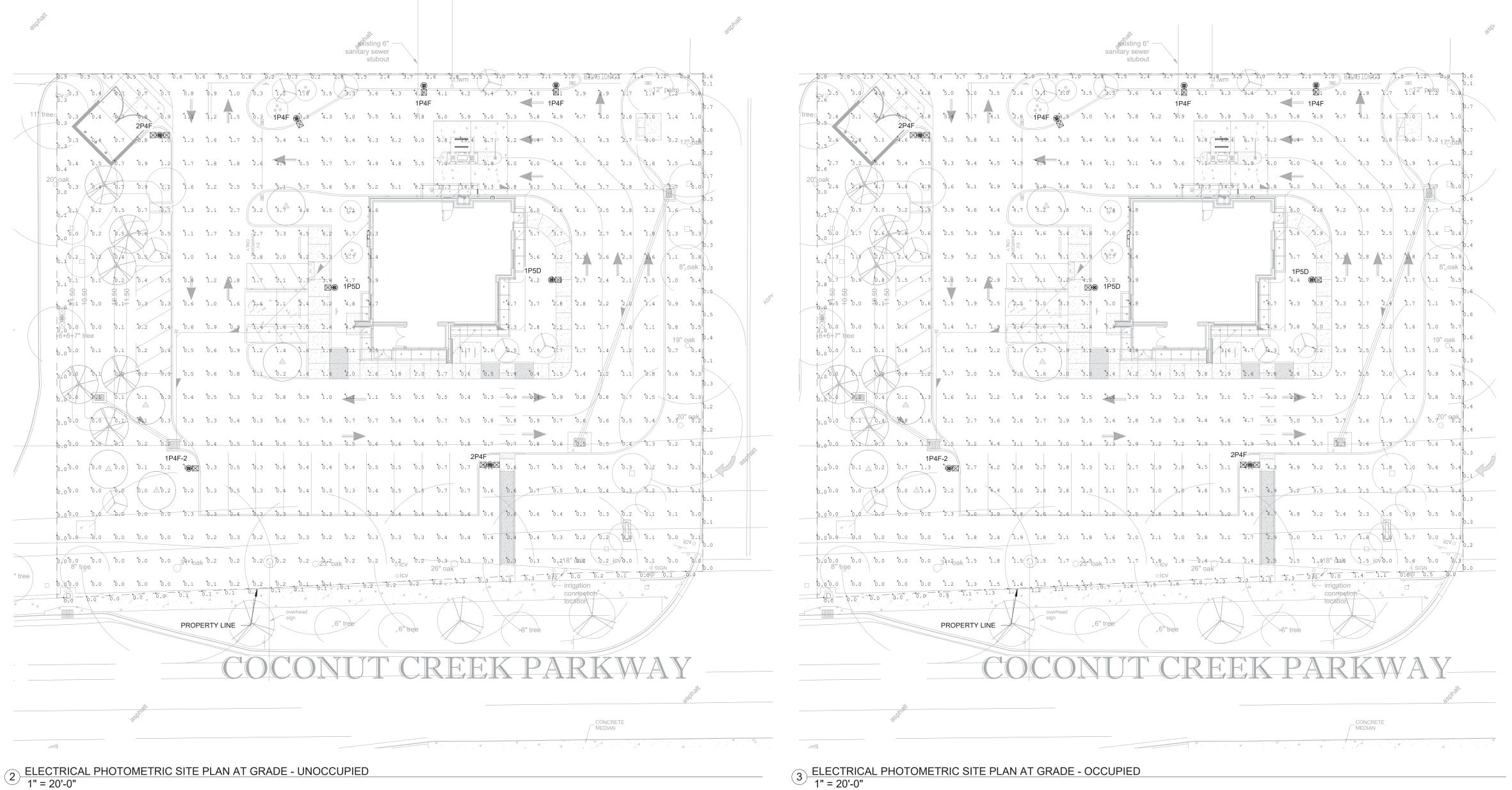
PROJECT INFORMATION BLOCK JOB# 230649/15-328.00

AM

DATE: 04/28/2024 **DRAWN BY:** CHECKED BY:

SHEET TITLE

ELECTRICAL SITE PLAN AND REMOTE DRIVE



CALCULATION SUMMARY AT GRADE(OCCUPIED)							
LABEL	CALCTYPE	UNIT	AVG	MAX	MIN	AVG/MIN	MAX/MIN
PARKING LOTS(OCCUPIED)	ILLUMINANCE	FC	3.23	5.5	2.0	1.62	2.75
DRIVEWAY/PARKING LOTS(OCCUPIED)	ILLUMINANCE	FC	3.84	14.9	1.2	3.20	12.42
5FT TRASH ENCLOSURE(OCCUPIED)	ILLUMINANCE	FC	3.97	5.4	2.4	1.65	2.25
PROPERTY LINE	ILLUMINANCE	FC	1.18	3.7	0.0	N.A.	N.A.

SHEET NOTES:

RS. AS A RESULT, PHOTOMETRIC VALUES MAY VARY FROM



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SEAL ANDREW MOHR FL PE# 73077

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1	K,V	12/20/24	DRC Comment #1
2	Κ	04/28/25	DRC Round 3

PROJECT INFORMATION BLOCK JOB# 230649/15-328.00 DATE: 04/28/2024

AM

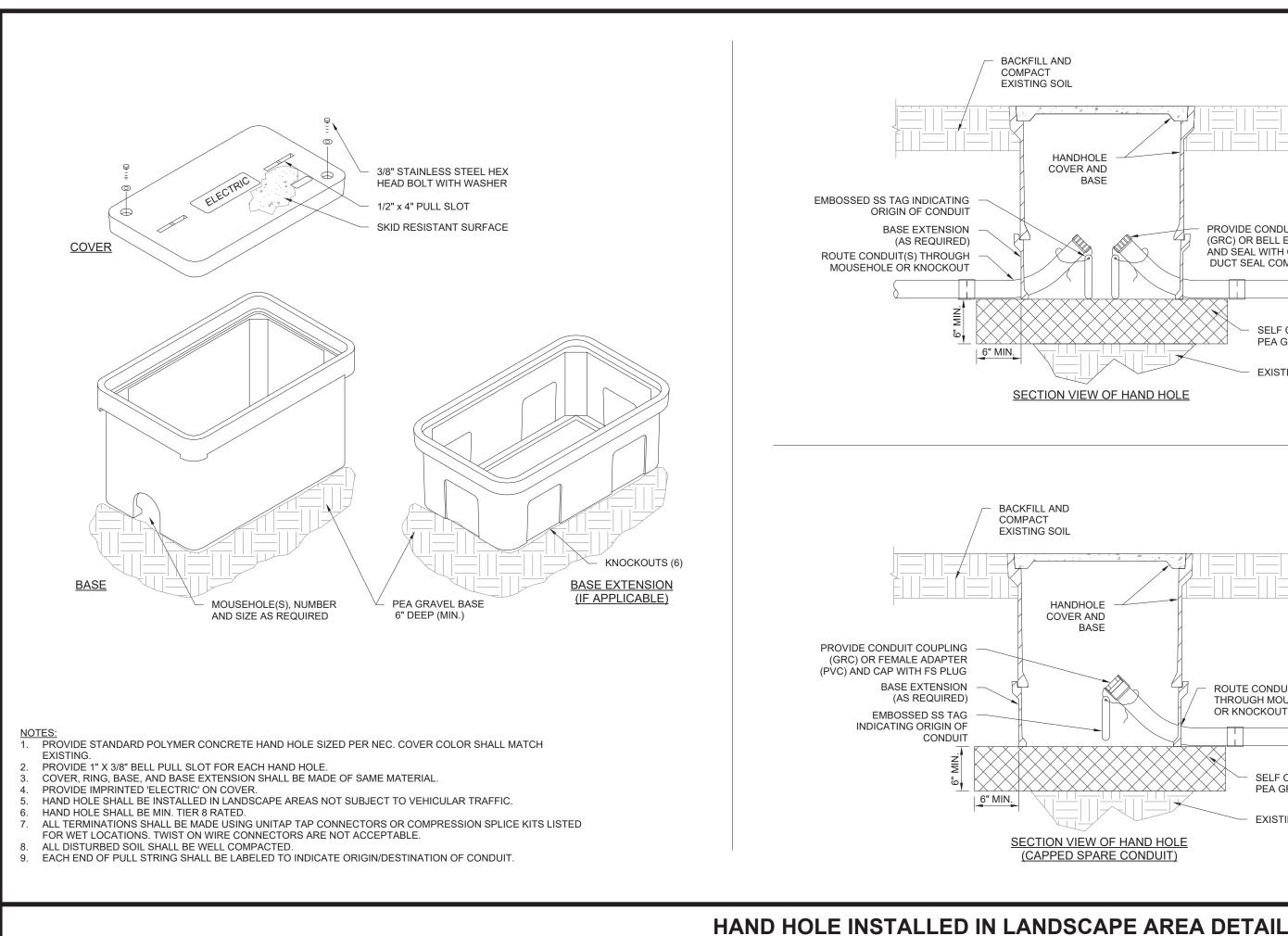
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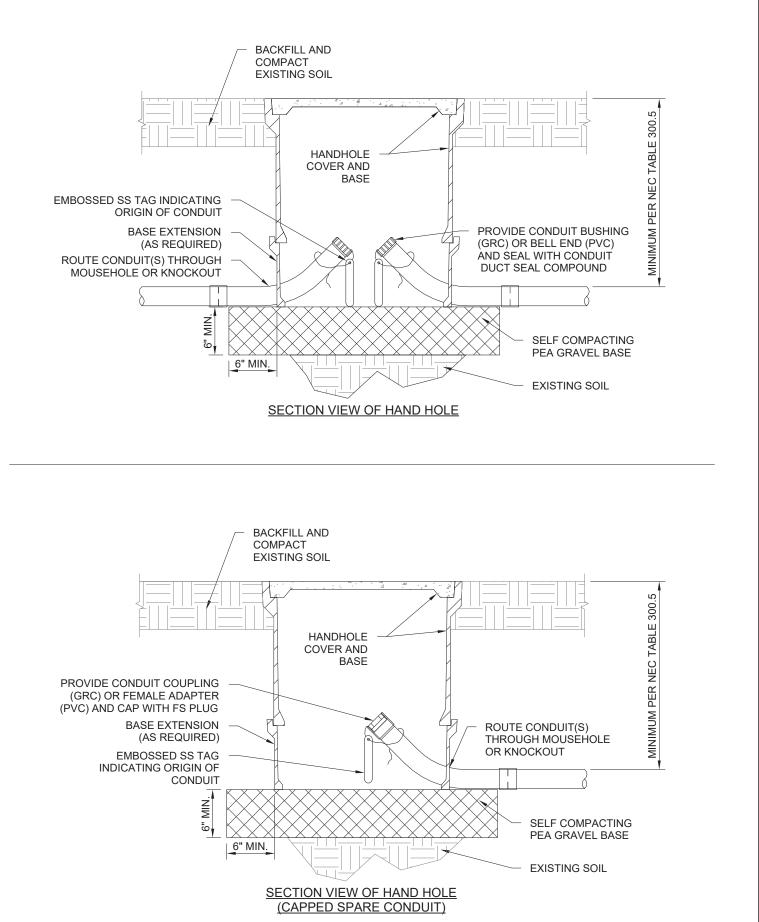
ELECTRICAL PHOTOMETRIC SITE PLAN

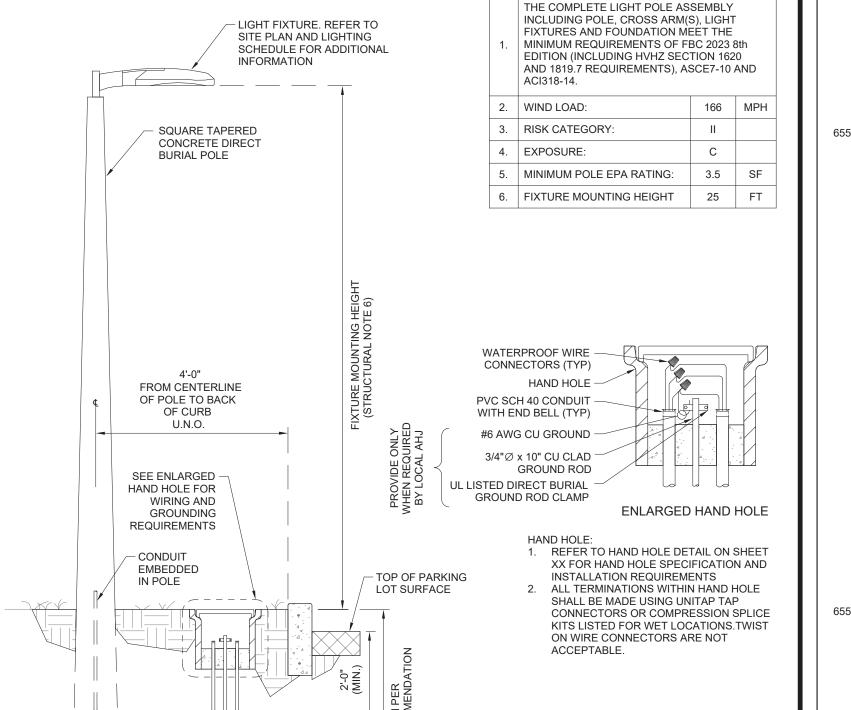
SHEET NUMBER

E-011



STRUCTURAL NOTES





SITE POLE LIGHT DETAIL SCALE

DIRECT BURIAL - CONCRETE N.T.S.

BRANCH CIRCUIT

IN PVC SCH 40CONDUIT

The following lines are excerpts from the Florida Statutes and are shown on this drawing for informational purposes only: **FLORIDA STATUTES**

> 2019 FLORIDA STATUTES TITLE XXXVIII. BANKS AND BANKING CHAPTER 655. FINANCIAL INSTITUTIONS GENERALLY

655.960 Definitions; ss. <u>655.960-655.965.</u> -

As used in this section and ss. 655.961-655.965, unless the context otherwise requires: "Access area" means any paved walkway or sidewalk which is within 50 feet of any automated teller machine. The term does not include any street or highway open to the use of the public, as defined in s. 316.003(83)(a) or (b), including any adjacent sidewalk, as defined in s.

"Access device" has the same meaning as set forth in Federal Reserve Board Regulation E, 12 C.F.R. part 205, promulgated pursuant to the Electronic Fund Transfer Act, 15 U.S.C. ss. 1601 et seq. "Automated teller machine" means any electronic information processing device located in this state which accepts or dispenses cash in connection with a credit, deposit, checking, or convenience account. The term does not include devices used solely to facilitate check guarantees or check authorizations or which are used in connection with the acceptance or dispensing of cash on a person-to-person basis, such as by a store cashier.

"Candlefoot power" means the light intensity of candles on a horizontal plane at 36 inches above ground level and 5 feet in front of the area to be measured. "Control," with respect to an access area or defined parking area, means to have the present legal authority to determine how, when, and by whom such area is to be used, and how such area is to be maintained, lighted, and landscaped. If an operator leases an access area or defined parking area as lessee, such lessee shall not be considered to have control for the purposes of ss. 655,960-655,965.

"Customer" means a natural person to whom an access device has been issued for personal, family, or household use. "Defined parking area" means that portion of any parking area open for customer parking which is contiguous to an access area with respect to an automated teller machine, is regularly, principally, and lawfully used for parking by users of the automated teller machine while conducting automated teller machine transactions during the hours of darkness, and is owned or leased by the operator of the automated teller machine or owned or controlled by the party leasing the automated teller machine site to the operator. The term does not include any parking area which is not open or regularly used for parking by users of the automated teller machine who are conducting automated teller machine transactions during the hours of darkness. A parking area is not open if it is physically closed to access or if conspicuous signs indicate that it is closed. If a multiple level parking area satisfies the conditions of this subsection and would therefore otherwise be a defined parking area, only the single parking level deemed by the operator of the automated teller machine to be the most directly accessible to the users of the automated teller machine shall be considered a parking area. "Financial institution office" means a main office or principal office, as defined in s. 655.005, and a branch or branch office as defined in s. 658.12(4).

"Hours of darkness" means the period that commences 30 minutes after sunset and ends 30 minutes before sunrise. "Operator" means any financial institution, as defined in s. 655.005, other business entity, or any person who controls the use or operation by a customer or other member of the general public of an automated teller machine. An operator controls the use or operation of an automated teller machine for the purposes of ss. 655.960-655.965 if such person or entity has the present legal authority to determine when and by whom the automated teller machine may be used or operated and how it is to be maintained in compliance with the provisions of ss. 655.960-655.965. An operator does not include any person or entity which is not a financial institution, if the primary function of such person or entity is to provide data processing services for automated teller machine transactions or to provide for the exchange, transfer, or

Terms which are defined in the financial institution codes, unless the context otherwise requires, have the meanings ascribed to them therein for purposes of ss. 655.960-655.965.

655.962 Lighting; mirrors; landscaping. --Each operator, or other person responsible for an automated teller machine pursuant to ss. 655.960-655.965, shall provide lighting during the hours of darkness with respect to an open and operating automated teller machine and any defined parking area, access area, and the exterior of an enclosed automated teller machine installation, as follows: There shall be a minimum of 10 candlefoot power at the face of the automated teller machine and extending in an unobstructed direction

dissemination of electronic funds transfer data.

outward 5 feet. There shall be a minimum of 2 candlefoot power within 50 feet in all unobstructed directions from the face of the automated teller machine. If the automated teller machine is located within 10 feet of the corner of the building and the automated teller machine is generally accessible from the adjacent side, there shall be a minimum of 2 candlefoot power along the first 40 unobstructed feet of the adjacent side of the building There shall be a minimum of 2 candlefoot power in that portion of the defined parking area within 60 feet of the automated teller

The operator shall provide reflective mirrors or surfaces at each automated teller machine which provide the customer with a rear view while the customer is engaged in using the automated teller machine. The operator, or other person responsible pursuant to ss. 655.960-655.965 for an automated teller machine, shall ensure that the height of

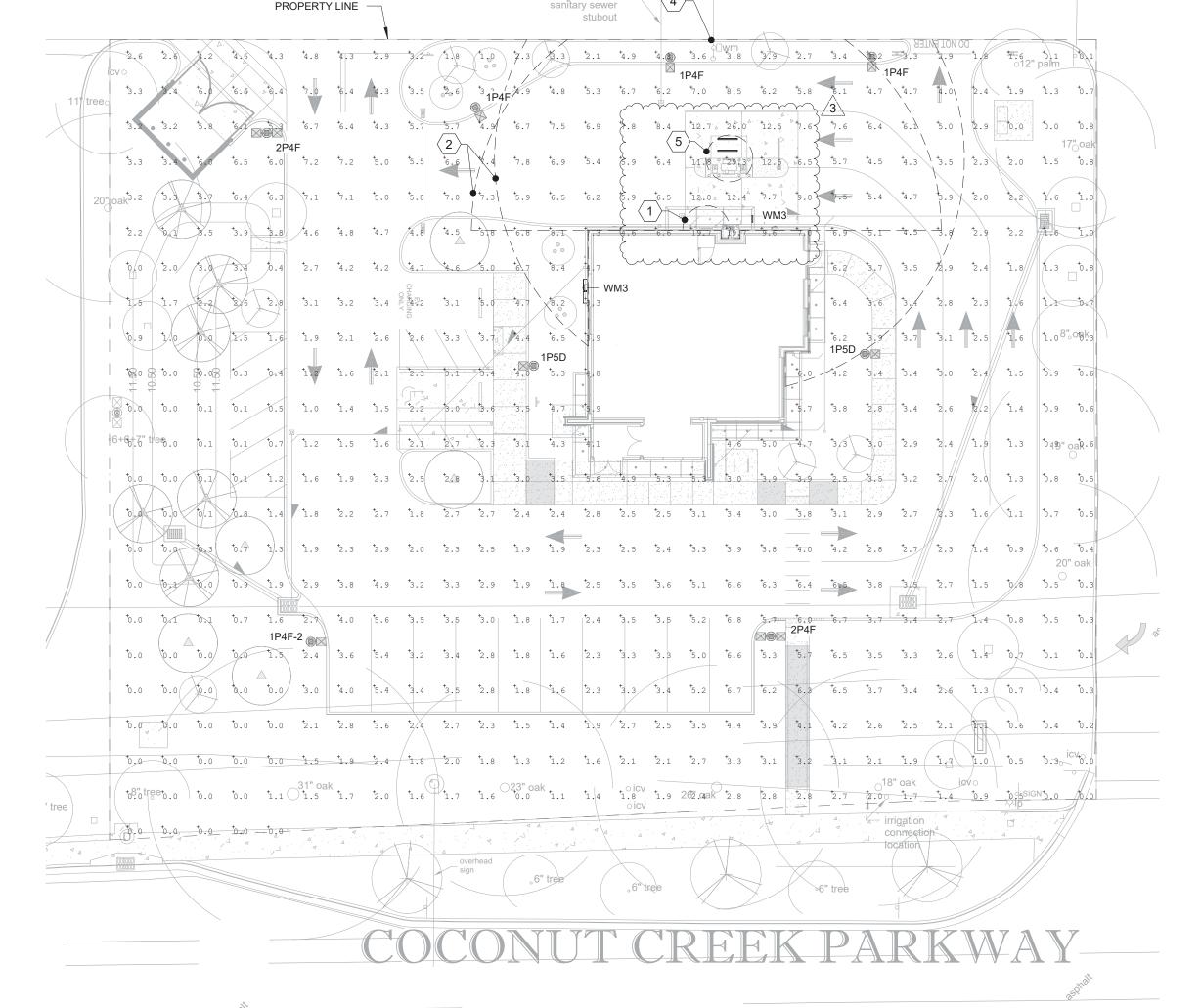
any landscaping, vegetation, or other physical obstructions in the area required to be lighted pursuant to subsection (1) for any open and operating automated teller machine shall not exceed 3 feet, except that trees trimmed to a height of 10 feet and whose diameters are less than 2 feet and manmade physical obstructions required by statute, law, code, ordinance, or other governmental regulation shall not be affected by this subsection

655.964 Application .--

The provisions of ss. 655.961 and 655.962 do not apply to any automated teller machine which is: Located inside of a building, unless it is a freestanding installation which exists for the sole purpose of providing an enclosure for the automated teller machine Located inside a building, except to the extent a transaction can be conducted from outside the building.

Located in any area, including any access area, building, enclosed space, or parking area which is not controlled by the operator. The provisions of ss. 655.960-655.965 shall not be construed to create any duty, responsibility, or obligation for any person or entity whose primary function is to provide for the exchange, transfer, or dissemination of electronic funds transfer data and is not otherwise a financial institution, as defined in s. 655.005, or an operator.

Except as expressly provided, the provisions of this section and ss. 655.960-655.964 supersede and preempt all rules, regulations, codes, or ordinances of any city, county, municipality, or other political subdivision of this state, and of any local agency regarding customer safety at automated teller machines located in this state.



 $_{\wedge}$ ELECTRICAL PHOTOMETRIC SITE PLAN AT 3'-0"

KEYED NOTES:

- AFTER-HOUR DEPOSITORY FIVE FOOT COMPLIANCE AREA: A MINIMUM OF TEN (10) FOOT CANDLE POWER AT THE FACE OF THE ATM/AFTER-HOUR DEPOSITORY EXTENDING OUTWARD FIVE (5) FEET IN ALL UNOBSTRUCTED
- ATM/AFTER-HOUR DEPOSITORY FIFTY FOOT COMPLIANCE AREA: A MINIMUM OF TWO (2) FOOT CANDLE POWER EXTENDING OUTWARD IN ALL UNOBSTRUCTED DIRECTIONS FIFTY (50) FEET FROM THE FACE OF THE ATM AND AFTER-HOUR DEPOSITORY.
- NOT USED.
- BANK CONTROLLED PROPERTY LINES: THE MINIMUM FOOT CANDLE READING WILLBELIMTED TO BANK CONTROLLED PROPERTY LINES
- ATM/VTM FIVE FOOT COMPLIANCE AREA: A MINIMUM OF TEN (10) FOOT CANDLE POWER AT THE FACE OF THE ATM/AFTER-HOUR DEPOSITORY EXTENDING OUTWARD FIVE (5) FEET IN ALL UNOBSTRUCTED DIRECTIONS TO BE PROVIDED BY OWNER'S PREMANUFACTURED ATM CANOPY. THE NUMBER SHOWING IS ESTIMATED NUMBER AND WE ANTICIPATE THE LIGHT LEVEL TO

CALCULATION SUMMARY AT 36" AFG(OCCUPIED)

				•		,	
LABEL	CALCTYPE	UNIT	AVG	MAX	MIN	AVG/MIN	MAX/MIN
DRIVE-UP ATM - 5FT COMPLIANCE	ILLUMINANCE	FC	PRO\	/IDED BY	CANOP'	Y MANUFA	CTURER
DRIVE-UP ATM - 50FT COMPLIANCE	ILLUMINANCE	FC	5.95	25.1	2.2	2.70	11.41
NIGHT DEPOSITORY - 5FT COMPLIANCE	ILLUMINANCE	FC	21.62	25.1	19.5	1.11	1.29
NIGHT DEPOSITORY - 50FT COMPLIANCE	ILLUMINANCE	FC	6.39	25.1	2.2	2.90	11.41

LIGHTING STANDARDS:

MINIMUM STANDARD

REGULATED STATES: ALABAMA, CALIFORNIA, CONNECTICUT, DISTRICT OF COLUMBIA, FLORIDA, GEORGIA, ILLINOIS, KANSAS, KENTUCKY, LOUISIANA, MARYLAND, MASSACHUSETTS, MISSOURI, MONTANA, NEVADA, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, OREGON, RHODE ISLAND, TEXAS,

VIRGINIA, WASHINGTON, VIRGINIA**

A MINIMUM OF TEN (10) FOOT CANDLE POWER AT THE FACE OF THE ATM

OR AFTER-HOUR DEPOSITORY EXTENDING OUTWARD FIVE (5) FEET IN ALL UNOBSTRUCTED DIRECTIONS.

IN ALL UNOBSTRUCTED DIRECTIONS FIFTY (50) FEET FROM THE FACE OF THE ATM AND AFTER-HOUR DEPOSITORY A MINIMUM OF TWO (2) FOOT CANDLE POWER IN DEFINED PARKING

AREAS WITHIN SIXTY (60) FEET OF THE ATM AND AFTER-HOUR DEPOSITORY. IN THE EVENT THE ATM OR AFTER-HOUR DEPOSITORY IS LOCATED WITHIN TEN (10) FEET OF THE CORNER OF THE BUILDING AND IS GENERALLY ACCESSIBLE FROM THE ADJACENT SIDE, THERE SHALL BE A MINIMUM OF TWO (2) FOOT CANDLE POWER ALONG THE FIRST FORTY (40) UNOBSTRUCTED FEET OF THE ADJACENT SIDE OF THE BUILDING.

DEPOSITORY EXTENDING OUTWARD FIVE (5) FEET IN ALL UNOBSTRUCTED DIRECTIONS. THERE WILL BE A MINIMUM OF TWO (2) FOOT CANDLE POWER AT THE INSIDE OF THE VESTIBULE ENTRY/EXIT DOOR(S). A MINIMUM OF TWO (2) FOOT CANDLE POWER EXTENDING THE VESTIBULE ENTRY/EXIT DOOR. A MINIMUM OF TWO (2) FOOT THE VESTIBULE ENTRY/EXIT DOOR. IN THE EVENT THE VESTIBULE ENTRY/EXIT DOOR IS LOCATED WITHIN TEN (10) FEET OF THE CORNER SIDE, THERE SHALL BE A MINIMUM OF TWO (2) FOOT CANDLE POWER SIDE OF THE BUILDING. IN URBAN SETTINGS FOR WHICH THERE IS NO DEFINED BANK PARKING AND THE ONLY ACCESS AREA IS A PUBLIC SIDEWALK, A MINIMUM 2 FOOT CANDLE POWER SHALL BE FOR THE FIRST 5 UNOBSTRUCTED FEET FROM THE DOOR. THE MINIMUM FOOT

PROPERTY LINES. A MINIMUM OF TWO (2) FOOT CANDLE POWER IN THE IMMEDIATE AREA OF THE DESIGNATED ASSOCIATE ENTRANCE/EXIT TO THE FACILITY. ALL LIGHTING MEASUREMENTS ARE TO BE TAKEN AT 36 INCHES ABOVE

BY STATE LAW OR REGULATION (3/07). IS REQUIRED BY AN APPLICABLE LAW FOR A PARTICULAR FACILITY LOCATION.

_ CONCRETE MEDIAN

BANKING CENTERS IN VIRGINIA MUST COMPLY WITH ALL HOME STATE LAWS AND IS CONSIDERED REGULATED IF THE BANK HEADQUARTERS ARE LOCATED IN A REGULATED STATE.

A MINIMUM OF TWO (2) FOOT CANDLE POWER EXTENDING OUTWARDS

IF THE ATM OR AFTER-HOUR DEPOSITORY IS LOCATED INSIDE A ACCESSIBLE VESTIBULE DURING ANY HOURS OF DARKNESS, A MINIMUM OF 10 FOOT CANDLE POWER AT THE FACE OF THE ATM OR AFTER-HOUR OUTWARDS IN ALL UNOBSTRUCTED DIRECTIONS FIFTY (50) FEET FROM CANDLE POWER IN DEFINED PARKING AREAS WITHIN SIXTY (60) FEET OF OF THE BUILDING AND IS GENERALLY ACCESSIBLE FROM THE ADJACENT ALONG THE FIRST FORTY (40) UNOBSTRUCTED FEET OF THE ADJACENT CANDLE READING WILL ALSO BE LIMITED TO BANK CONTROLLED

THE GROUND ON A HORIZONTAL PLANE, UNLESS OTHERWISE SPECIFIED

THE MINIMUM STANDARD SHALL APPLY UNLESS A GREATER STANDARD

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> ANDREW MOHR FL PE# 73077

ERFORMING WORK SHALL RESULT IN THE WAIVER OF ANY CLAIMS OR

MAGES ASSOCIATED WITH THE DISCREPANCIES OR CONFLICTS. THE

nmages associated with the discrepancies or conflicts, in Dnitractor is responsible for the coordination, schedulin Id conformance of its work and all work performed by

JBCONTRACTORS OR OTHER TRADES WITH THE DESIGN DOCUMEN

SEAL

This item has been electronically signed and sealed by Andrew Mohr, P.E. on the date and/or time stamp shown using a digital signature. Printed copies of this document



Phone: 813.434.4770 GROUP, LLC FL Cert. of Auth# 27889 ISSUE BY DATE DESCRIPTION K,V | 08/26/24 | Permit Set K | 04/28/25| DRC Round 3 3 K 06/25/25 DRC round 4

AM

PROJECT INFORMATION BLOCK JOB# 230649/15-328.00 04/28/2024 **DRAWN BY:**

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ELECTRICAL PHOTOMETRIC PLAN AND SITE DETAILS



CUSTOMER NAME _ PROJECT NAME _____ DATE ______TYPE ____ CATALOG NUMBER __

EALS Series

LED Outdoor Area Light

The EALS Area Light luminaire offers a wide range of optical patterns, color temperatures, lumen packages and mounting configurations to optimize area light applications, as well as provide versatility in lighting design within the same formfactor. They are ideal for commercial property site-lighting applications such as retail and commercial exteriors.

Lumen Maintenance

Housing:	Aluminum die cast enclosure. Integral heat sink for maximum heat transfer
Lens:	Impact resistant tempered glass
Paint:	Corrosion resistant polyester powder paint, minimum 2.0 mil thickness Standard = Black, Dark Bronze Gray, White (RAL & custom colors available) Optional = Coastal Finish
Weight:	27 lbs

Optical System

	7,000 - 30,300 Type II, III, IV & V
	126 - 160 LPW 3000K, 4000K, 5000K
CRI:	≥70
Upward Light Output Ration (ULOR):	0 Horizontal Orientation

Electrical

Input Voltage:	120-277V, 277-480V & 347-480V
Input Frequency:	50/60 Hz
Power Factor (PH):	> 90% at rated watts
Total Harmonic Distortion (THD):	< 20% at rated watts

Surge Protection

-	6kV/3kA*	10kV/5kA*	20kV/10kA*
---	----------	-----------	------------

Current @

Projected Lxx per IES TM-21-11 at 25°C

OPTICS	LXX(10K) @ HOURS						
OFTIGS	25,000 HR	50,000 HR	60,000 HR				
C2, C3, C4, C5, D2, D3, D4, D5	L96	L92	L91				
F5, H2, H3, H4, H5	L95	L93	L92				
F2, F3, F4, J3, J3, J4, J5	L95	L93	L92				
K2, K3, K4, K5	L95	L93	L92				
ote: Projected Lxx based on LM80 (= 10 oply to initial luminous flux and lumen n			stry tolerance				
Luminaire Ambie			ctor				

1.02

Operating Temperature:	-40° C to 40° C
Vibration:	3G per ANSI C136.31-2010
LM-79:	Testing in accordance with IESNA Standards

1.01 40 0.98

Controls

Dimming:	Standard - 0-10V
	Optional - DALI (Option U)
Sensors:	Photo Electric Sensors (PE) available
	LightGrid and Daintree Compatible

Warranty



LED.com	Page 1 of 9
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without notice. All values are design or typical values when measured under laboratory conditions.	OLP3111_R04

EVOLVE

CUSTOMER NAME PROJECT NAME DATE ____ CATALOG NUMBER

U 7 = DALI Programmable

V = 3 Position Terminal Block

(Rev 06/26/23)

OLP3111_R04

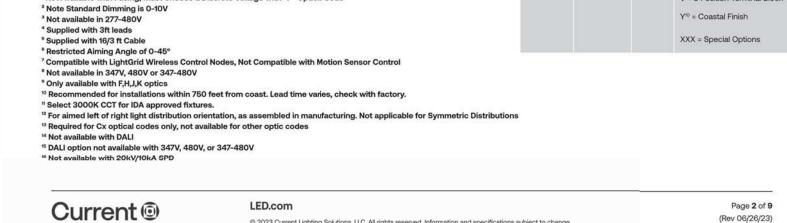
Ordering Information

¹ Not Available with Fusing, Must Choose a Discrete Voltage with "F" Option Code

LED Outdoor Area Light

EALS Series

EALS	03				7						
		70-0			_		_	-			
PRODUCT ID	GENERATION	VOLTAGE	OPTICAL CODE	DISTRIBUTION	CRI	сст	DIMMING ²	CONTROLS	MOUNTING ARM	COLOR	OPTIONS
E= Evolve	03	0'=120-277V	Cx =7500 ¹⁴	SM = Symmetric Medium	7 = 70 (min)	30" = 3000K	N = Dimming thru PE receptacle	A = ANSI C136.41 7-Pin Receptacle (No Control)	C1 ⁴ = Integral Slipfitter: Standard	BLCK = Black	F= Fusing
AL= Area Light		H1 = 347-480V	Dx = 10000 lm ¹⁵	SW = Symmetric Wide		40 = 4000K	D = External Dimming 18/2 3 ft Cable	D = ANSI C136.417- Pin Receptacle with Shorting Cap	D1 ⁵ = Universal Mounting Arm: Fitted for round or square pole mounting	DKBZ = Dark Bronze	H = Motion Sensor ^{3, 14, 16} (Sensor Switch)
S = Standard		E ¹⁹ = 277-480V	Fx = 15000 lm	SH = Symmetric High Angle		50 = 5000K	X = Non dimming, no external dimming leads ¹³	E ³ = ANSI C136.41 7-pin with Non- Dimming PE Control	K1 ^{4,6} = Knuckle Slipfitter: For 1.9 in 2.3 in OD Tenon	GRAY = Gray	H1 = LightGrid w/ WattStopper ¹⁴
			Hx = 20000 lm	AF = Asymmetric Forward					St ^{4, 6} = Knuckle Slipfitter: For 2.3 in, - 3.0 in OD Tenon	WHTE = White	H2 = Daintree enabled motion sensor ^{14, 16}
		1 = 120V	Jx = 25000 lm	AH = Asymmetric High Angle					V1 ^{4, 6} = Knuckle Wall Mount		H4 = Motion Sensor (WattStopper) ¹⁴
		2 = 208V	Kx = 30000 lm	AW = Asymmetric Wide							J = cUL/Canada
		3 = 240V		AN = Asymmetric Narrow/Auto							L = Tool-Less Entry
		4 =277V									R = Enhanced Surge Protection (10kV/5kA)
		D = 347V									St ¹² = Rotated Left
		5 = 480V									S2 ¹² = Rotated Right
											T = Extreme Surge Protection (20kV/10kA)

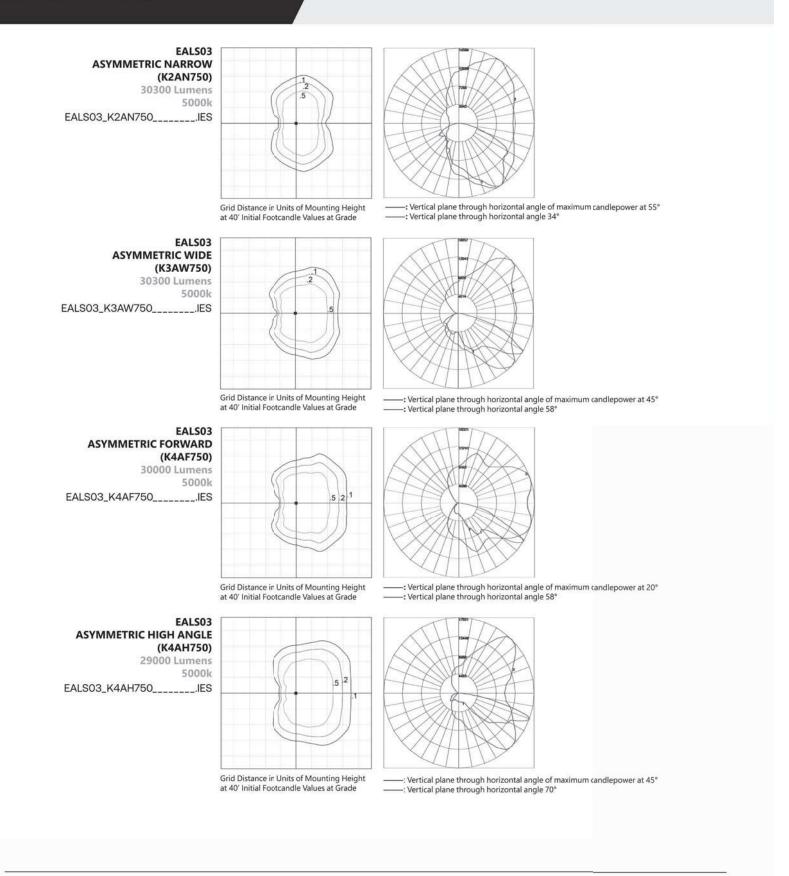


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Current @

CUSTOMER NAME PROJECT NAME DATE ____ CATALOG NUMBER



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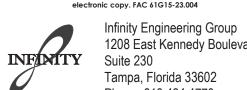
Page 4 of 9

(Rev 06/26/23)

OLP3111_R04

A 1	
AL	ANDREW MOHR
	FL PE# 73077

This item has been electronically signed and sealed by Andrew Mohr, P.E. on the date and/or time stamp shown using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified by a 3rd Party Certificate Authority on any electronic copy. FAC 61G15-23.004



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ISSUE	BY	DATE	DESCRIPTION
	K,V	08/26/24	Permit Set

PROJECT INFORMATION BLOCK JOB# 230649/15-328.00 DATE: 04/28/2024 DRAWN BY:

AM

SHEET TITLE

CHECKED BY:

EXTERIOR LIGHTING CUTSHEETS

SHEET NUMBER

E-601

XSPS

XSPS LED Soffit Light

ORDERING GUIDE TYPICAL ORDER EXAMPLE: XSPS S LED SS CW 120 GWT DFL

	7.01	J U LL	.5 00 011 11	LO GIVI DIL				
Prefix	Distribution	Light Source	Drive Current	Color Temperature	Input Voltage	Finish	Lens	Options
XSPS - LED Soffit	S - Symmetric	LED	SS - 4,000 Lumens HO - 5,000 Lumens VHO - 6,000 Lumens	CW - 5000K 80 CRI NW - 4000K 80 CRI WW - 3000K 80 CRI	120 - 120V 208 - 208V 240 - 240V 277 - 277V 347 - 347V	GWT - Gloss White	DFL - Diffused Acrylic Lens	CMT - Channel Bar Mounting Kit BB - Emergency Battery Pack ¹

1 - Emergency Battery Pack only available on the SS - 4000 lumen version (120, 208, 240 & 277V versions).

PERFORMANCE

LEDs are frequently updated therefore values are nominal.

67

*Electrical data at 25C (77F). Actual wattage may differ by +/-10%.

		Lane			3000K CCT			4000K CCT		5000K CCT			
Package	Lumen ackage Distribution Type	CRI	Delivered Lumens	Efficacy	Bug Rating	Delivered Lumens	Efficacy	Bug Rating	Delivered Lumens	Efficacy	Bug Rating	Wattage	
SS	S	DFL	80	3816	123	B2-U0-G1	4022	129	B2-U0-G1	3966	128	B2-U0-G1	31
НО	S	DFL	80	4756	120	B2-U0-G1	5011	127	B2-U0-G1	4941	125	B2-U0-G1	40
VHO	S	DFL	80	5733	118	B2-U0-G1	6041	124	B2-U0-G1	5957	122	B2-U0-G1	49
SHO	S	DFL	80	7559	113	B3-U0-G1	7965	119	B3-U0-G1	7853	118	B3-U0-G1	67

277V

0.14

0.18

0.24

Lumen Package

4L - 4.000

6L - 6,000

8L - 8,000

12L - 12,000 **15L** - 15,000

18L - 18,000 21L - 21,000

Custom Lumen Packages¹

0.11

0.14

0.16

0.28

0.23

0.32

FEATURES & SPECIFICATIONS

Construction

Lumen Package

Wattage Range

Weight lbs (kg)

Efficacy Range (LPW)

· Housing is die-formed aluminum with diffuse acrylic lens providing a waterresistant seal. Enclosure contains factory prewired driver and optical unit containing

4000 - 8000

43 -59

96 -104

7.6 (3.5)

- Recess mount into an enclosed soffit with screws through the mounting frame. 8" clearance required for ease of installation.
- Finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling, and is guaranteed for five full years. Standard
- Shipping weight: 7.6 lbs in carton.
- Suitable for wet locations.

Optical System

color is gloss white.

- Symmetric distribution with excellent uniformity and a BUG rating of B2-UO-G1. Diffuse lens is standard to minimizing visibility of LEDs.
- Select high-brightness LEDs.
- Available in 5000K, 4000K and 3000K
- Color temperatures per ANSI C78.377. Minimum CRI of 80.

Electrical

QUICK LINKS

120-347VAC 50/60Hz

Lumen Maintenance chart)

(-40°F to 95°F) for SHO

Power factor: >0.90

Total harmonic distortion: <20%

• L80 Calculated Life: >100k Hours (See

• Operating temperature: -40°C to 40°C

· Input power stays constant over life.

· High-efficacy LEDs with integrated circuit

board mount to the housing to maximize

heat dissipation and promote long life.

· Driver components are fully encased in

Driver complies with FCC standards.

potting material for moisture resistance.

lumen versions.

- High-performance factory programmable LSI luminaires carry a 5-year limited warranty. Refer to https://www.lsicorp.com/ driver features over-voltage, under voltage, short-circuit and over temperature resources/terms-conditions-warranty/ for protection with integral surge protection that meets IEEE C62.41.2 and ANSI C82.77.
- -5 Location Category C Low standards. Listed to UL 1598 and UL 8750 0-10 volt dimming (10% - 100%) standard. • Suitable For Damp Locations

Ordering Guide Performance Photometrics Dimensions

- Meets Bu Thermal protector standard on 5000-8000
 - DesignLi product may be D org/QPL to confirm which versions are qualified.
- (-40°F to 104°F) for HO and VHO. -40°C to IDA compliant with 3000K or lower color 45°C (-40°F to 113°F) for SS. -40°C to 35°C temperature.

Buy American Act requirements.						
ights Consortium® (DLC) qualified	RECOMMEND	ED LUMEN M	AINTENANCE			
t. Not all versions of this product DLC qualified. Please check the DLC	Ambient Temp C	Initial ¹	25K hrs.1	50K hrs.1	75K hrs. ²	
d Products List at www.designlights.	25 C	100%	95%	91%	86%	İ

HO

Electrical Data (Amps)

1 - In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times the IESNA LM-80-08 total test duration for the device under

TYPICAL ORDER EXAMPLE: XWM 2 LED 03L 30 UE BRZ ALSC

2 - Type 2

3 - Type 3

4 - Type 4

BLK - Black

BRZ - Dark Bronze

GMG - Gun Metal Gray

MSV - Metallic Silver

PLP - Platinum Plus

SVG - Satin Verde Green

FT - Type 4 Forward Throw

0.33

0.56

2 - In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times the IESNA LM-80-08 total test duration for the device under testing.

A Have questions? Call us at (800) 436-7800

ORDERING GUIDE

XWM - Mirada Medium Wall Sconce

UE - Universal Voltage (120-277V)

具続 Need more information?

FK120 - Single Fusing

FK277 - Single Fusing

FK347 - Single Fusing

DFK - Double Fusing

DFK - Double Fusing (240V)

DFK - Double Fusing (480V)

FUSING ACCESSORY ORDERING INFORMATION⁶

Click here for our glossary

FK1207

FK3477

DFK2087

HV - High Voltage (347-480V)



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Mirada Medium Wall Sconce (XWM) Outdoor Wall Sconce

Wireless Controls

Standalone Controls

Button Type Photocells

PCI208-277 - 208 -277V

PCI120 - 120V

PCI347 - 347V

ALSC - Airlink Synapse Control System

ALSCSO1 - AirLink Synapse Control System with 8-12' Motion Sensor

DIM - 0-10v Dimming leads extended to housing exterior

ALSCSO2 - AirLink Synapse Control System with 12-20' Motion Sensor

IMSBT1 -Integral Bluetooth™ Motion and Photocell Sensor (8-24' MH)^{3,4}

IMSBT2 - Integral Bluetooth™ Motion and Photocell Sensor (25-40' MH)3,4

ALBCS1 - AirLink Blue Wireless Motion & Photo Sensor Controller (8-24' MH)³

ALBCS2 - AirLink Blue Wireless Motion & Photo Sensor Controller (25-40' MH)³

SPEC.2036.A.0320

Back to Quick Links

Color Temperature

AMB - Phosphor Converted Amber²

BB - Battery Back-up (0°C)5

XPMA - Pole Mounting Bracket

SP1 - 10kV Surge Protection

Have additional questions?

Call us at (800) 436-7800

MOUNTING ACCESSORY ORDERING INFORMATION⁶

XWM Wet Location Surface Conduit/Wiring Box

10' Linear Bird Spike Kit (2' Recommended per Luminaire)

TB - Terminal Block

CWBB - Cold Weather Battery Backup (-20°C)5

30 - 3000K

40 - 4000K

50 - 5000K

Back to Quick Links

Mirada Medium Wall Sconce (XWM)

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Outdoor Wall Sconce







Control Options IMSBT, ALB, ALS, PCI

QUICK LINKS

Ordering Guide Performance Photometrics Dimensions

FEATURES & SPECIFICATIONS

Construction Rugged die-cast aluminum housing contains

- factory prewired driver and optical unit. Hinged die-cast aluminum wiring access door located underneath. Galvanized-steel universal wall mount bracket
- comes standard with hinging mechanism to easily access the junction box wire connections without removing the luminaire.
- Optional pole-mounting bracket (XPMA) permits mounting to standard poles. Fixtures are finished with LSI's DuraGrip*
- polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling. Other standard LSI finishes available. Consult
- Max shipping weight: 30lbs in carton
- **Optical System** • State-of-the-Art one piece silicone optic provides industry leading optical control while also acting as an integrated gasket reducing system complexity and improving
- fixture reliability. • Proprietary silicone refractor optics provide exceptional coverage and uniformity in Types 2, 3, 4, and FT distributions.
- · Silicone optical material does not yellow or crack with age and provides a typical light transmittance of 93-95%. · Zero uplight.

Available in 5000K, 4000K and 3000K

color temperatures per ANSI C78.377. Also Available in Phosphor Converted Amber with Peak intensity at 610nm. Minimum CRI of 70.

Electrical

· High-performance programmable driver features over-voltage, under-voltage, shortcircuit and over temperature protection. Custom lumen and wattage packages available.

- 0-10V dimming (10% 100%) standard. Standard Universal Voltage (120-277 Vac) Input 50/60 Hz or optional High Voltage (347-480 Vac).
- L80 Calculated Life: >100k Hours Total harmonic distortion (THD): <20%
- 3L to 12L operating temperature: -40°C to +50°C (-40°F to +122°F) 15L operating temperature: -40°C to +45°C
- 18L operating temperature: -40°C to +40°C (-40°F to +104°F). 21L operating temperature: -40°C to +35°C (-40°F to + 95°F).
- Power factor (PF): >.90 Input power stays constant over life. Optional 10kV surge protection device meets a minimum Category C Low operation (per
- ANSI/IEEE C62.41.2). · High-efficacy LEDs mounted to metal-core circuit board to maximize heat dissipation Components are fully encased in potting material for moisture resistance. Driver

complies with FCC standards. Driver and

- key electronic components can easily be accessed via hinged door. Optional integral emergency battery pack provides 90-minutes of constant power to the LED system, ensuring code compliance. A test switch/indicator button is installed on the housing for ease of maintenance.
- The fixture delivers 1500 lumens during emergency mode. Controls Integral passive infrared Bluetooth™ motion sensor options. Fixtures operate independently and can be commissioned via an iOS or Android configuration app. Updates and modifications to the control strategy are easily implemented via an

intuitive app.

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 LSI's AirLink™ Blue lighting control system is a simple feature rich wireless Bluetooth

mesh network. The integrated fixture sensor module provides wireless control of grouped fixtures based on motion sensors, daylight or a fully customizable schedule.

Installation Universal wall mounting plate easily mounts directly to 4" octagonal or square junction

2 fasteners secure the hinged door

- underneath the housing and provide quick & easy access to the electrical compartment for installing/servicing.
- Optional terminal block accepts up to 12 ga Warranty

LSI luminaires carry a 5-year limited warranty. Refer to https://www.lsicorp.com/resources/

terms-conditions-warranty/ for more · 1 Year warranty on Battery Back-up option.

Listed to UL 1598 and UL 8750. Meets Buy American Act requirements.

- IDA compliant, with 3000K or lower color temperature selection. Title 24 Compliant; see local ordinance for qualification information.
- · Suitable for wet Locations. · IP65 rated luminaire per IEC 60598. • 3G rated for ANSI C136.31 high vibration applications when pole mounted (using
- optional XPMA bracket) or wall mounted. IKO8 rated luminiare per IEC 66262 mechanical impact code DesignLights Consortium® (DLC) Premium qualified product. Not all versions of this
- product may be DLC Premium qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.
- Custom lumen and wattage packages available consult factory. Values are within industry standard tolerances but not DLC listed. Only available in 6L Lumen Package, Consult factory for lead time and availability. IMSBT and ALBCS control options are not available in 3L or 4L lumen packages when high voltage (HV) is specified. IMSBTxL is field configurable via the Leviton app that can be downloaded from your smartphone's app store.

5 Not available in HV. 6 Accessories are shipped separately and field installed. Fusing must be located in a hand hole for pole or in the junction box 8 "CLR" to be replaced by paint finish selection. See Finish options for paint color selections.

Page 1/7 Rev. 08/03/23 SPEC.1024.C.0823

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Page 2/7 Rev. 08/03/23

SPEC.1024.C.0823



Warm Dim (98 CRI, R9>90)

2700K (90CRI)

3000K (90CRI)

3500K (90CRI)

4000K (90CRI)

2700K (90CRI)

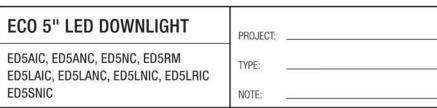
3000K (90CRI)

3500K (90CRI)

4000K (90CRI)

SPEC-00273 NEW ECO, 5", V-8.0, UPDATED 05/19/2023

ED5AIC, ED5ANC, ED5NC, ED5RM ED5LAIC, ED5LANC, ED5LNIC, ED5LRIC **ED5SNIC**





	Carrie	ED5ANC,	ED5LANC		ED5RM, ED5	ED5SNIC			
LED LIGHT ENGINE					SILENT VU™ OPTICS T				
RATED WATTAGE	29.5W, 24W,	, 15.3W			OPTICS	50° Installed, 10°, 3	0°, 80° available		
DELIVERED LUMENS	Up to 2657 In	n			ADJUSTABLE	0° to 45° tilt (Adjusta	able housings only)		
EFFICACY	Up to 104 LP	W			MEDIA	Clear, Solite, Frosted	, Linear Spread		
CCT @ 90CRI	2700K, 3000	K, 3500K, 400	0K, Warm Dim		DOWED OUDDIN				
COLOR QUALITY	90+ CRI, 2-S	tep SDCM			POWER SUPPLY				
LED LIFETIME	55,000 hours	s @ L90			INPUT VOLTAGE	120/277V, 50/60Hz			
					DIMMING	TRIAC, ELV, 0-10V, d	ims to 1%		
DELIVERED LUMENS	MATRIX				SERVICABILITY	Below Ceiling Access	S		
ED5 (29.5W)	10° Optic	30° Optic	50° Optic	80° Optic					
2700K (90CRI)	2275 lm	2403 lm	2139 lm	1624 lm	TRIM OPTIONS	TRIM COLORS			
3000K (90CRI)	2458 lm	2597 lm	2311 lm	1755 lm	 Fixed or Adjustable 	 White 	 Black w/ White Flange 		
3500K (90CRI)	2516 lm	2657 lm	2366 lm	1796 lm	Round or Square Standard or Triangles	 Black 	 Silver w/ White Flange 		
4000K (90CRI)	2590 lm	2735 lm	2435 lm	1849 lm	Standard or TrimlessWall Wash	 Champagne 			
ED5 NIC, RIC (15.3W)	10° Optic	30° Optic	50° Optic	80° Optic	Wet Location	Champagne w/ W	Champagne w/ White Flange		

 New Construction includes (2) galvanized steel adjustable hanger bars Remodel option available 5/8" ~ 2" ceiling thickness Min Plenum Height: 2½" Shallow

HOUSING INSTALLATION

1268 lm 963 lm · Ceiling Material: Drywall, T-bar grid • Steel junction box with up to (4) 1/2" knockouts AIC, NIC, RIC, SNIC models are Air Tight 1621 lm 1443 lm 814 lm · AIC, SNIC models are CCEA compliant. (Note: polycell spray-in foam insulation must be kept 3" from housing)

1587 lm

cULus Listed

ASTM E283 Certified Airtight (AIC, NIC, RIC, SNIC Models) IC Rated and Non IC Rated Available CCEA (Chicago Plenum) Approved (AIC, SNIC Models) Five (5) years limited warranty CA Title 24-JA8 Compliant (AIC, NIC, RIC, SNIC Models)

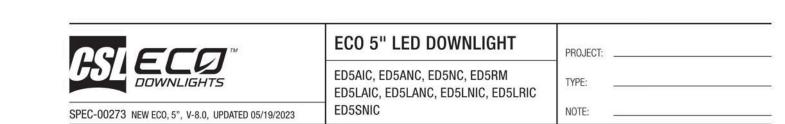
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Warm Dim (98 CRI, R9>90) 1472 lm 1545 lm 1418 lm 1033 lm

2223 lm 2348 lm 2090 lm

Warm Dim (98 CRI, R9>90) 1030 lm 1081 lm 992 lm





ORDER MATRIX

ECO 5" HOUSING + LIGHT ENGINE ORDER MATRIX (Example: ED5AIC-309050-30S)

HOUSING BASE		LED PERFORMANCE			DRIVER ASSEMBLY	
FAMILY APERTURE	INSTALLATION TYPE	ССТ	CRI	OPTIC	WATTAGE	LED DIMMING DRIVER
ED5 ECO 5"	AIC (Adjustable New Construction, IC, CCEA) ANC (Adj New Construction) NC (New Construction) RM (Remodel)	-27 (2700K) -30 (3000K) -35 (3500K) -40 (4000K)	90 (90 CRI)	50 (50° Flood) Installed 10°, 30°, 80° optics available from the Additional Optics Accessories table below	-30 (29.5W)	S Universal Dimming Driver (1%-100% 0-10V, TRIAC, ELV, 120V/277V)
ED5 ECO 5" Warm Dim	AIC¹ (Adjustable New Construction, IC, CCEA) ANC¹ (Adj New Construction) NIC¹ (New Construction IC) RIC¹ (Remodel IC)	-WD² (1800K~3000K) Warm Dim	98 (98 CRI) Warm Dim	50 (50° Flood) Installed 10°, 30°, 80° optics available from the Additional Optics Accessories table below	-16¹ (15.3W) NIC or RIC Installation Type only -25¹² (24W) AIC or ANC Installation Type only	S Universal Dimming Driver (1%-100% 0-10V, TRIAC, ELV, 120V/277V)

ED5L

ECO 5" HOUSING + LIGHT ENGINE ORDER MATRIX	((Example: ED5LAIC-309050-16S2)

	LED PERFURMANCE			DRIVER ASSEMBLY		
FAMILY APERTURE	MILY APERTURE INSTALLATION TYPE		CRI	OPTIC	WATTAGE	LED DIMMING DRIVER
ED5L EC0 5" LPD	AIC (Adjustable New Construction, IC, CCEA) ANC (Adj New Construction) NIC (New Construction IC) RIC (Remodel IC)	-27 (2700K) -30 (3000K) -35 (3500K) -40 (4000K)	90 (90 CRI)	50 (50° Flood) Installed 10°, 30°, 80° optics available from the Additional Optics Accessories table below	100	S2 Phase Control Dimming Driver (1%-100% TRIAC, ELV, 120V/277V)

ECO 5" HOUSING + LIGHT ENGINE ORDER MATRIX (Example: ED5SNIC-309050-25S)

	LED PERFORMANCE			DRIVER ASSEMBLY			
FAMILY APERTURE INSTALLATION TYPE		ССТ	CRI	OPTIC	WATTAGE	LED DIMMING DRIVER	
ED5S EC0 5" Shallow	NIC (Shallow Plenum New Construction, IC, CCEA)	-27 (2700K) -30 (3000K) -35 (3500K) -40 (4000K)	90 (90 CRI)	50 (50° Flood) Installed 10°, 30°, 80° optics available from the Additional Optics Accessories table	-25 (24W)	S Universal Dimming Driver (1%-100% 0-10V, TRIAC ELV, 120V/277V)	

ED5S EC0 5" Shallow NIC (Shallow Plenum New Construction, IC, CCEA) -WD (1800K~3000K) 98 (98 CRI) 50 (50° Flood) -25 (24W) S Universal Dimming Driver

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PROJECT INFORMATION BLOCK JOB# 230649/15-328.00 DATE: 04/28/2024

AM

CHECKED BY: SHEET TITLE

DRAWN BY:

EXTERIOR LIGHTING CUTSHEETS

Specification Sheet

lumenfacade

WHITE AND STATIC COLORS

Front and side views

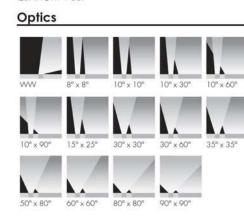
The Lumenfacade Inground is an LED luminaire designed for ground-recessed lighting applications, including asymmetric wall washing, grazing, and linear wayfinding. An innovative, plug and play design simplifies installation, protecting the system from water infiltration and ensuring long-lasting performance. Featuring second generation LED technology, the Lumenfacade Inground is available in four different sizes

ect Name _		Qty	
e	Catalog / Part Number		
		25" Width of glass lens	
			Top view
10		13 ¹ / ₁₆ , 25 ¹ / ₁₆ , 37 ¹ / ₁₆ , 49 ¹ / ₁₆	

	Delivered output (lm)	Intensity (peak cd
ww	3,634	10,795
8°x8°	4,512	59,238
10°x10°	4,410	33,872
10°x30°	4,586	25,296
10°x60°	3,876	12,062
10°x90°	4,077	6,927
15°x25°	4,346	19,773
30°x30°	4,730	16,886
30°x60°	4,035	5,317
35°x35°	4,612	11,616
50°x80°	4,656	3,904
60°x60°	3,868	3,368
80°x80°	4,548	2,992
		10 12 VOVOVON

DMX/RDM configuration. 2.5° factory-set tilt setting for WW optic, 0° tilt setting for all other optics.

Photometric performance is measured in compliance with IESNA LM-79-08.



	(12 in, 24 in, 36 in or 48 in), with a wide choice of outputs, color temperatures, color-mixing systems, optics and controls. A unique asymmetric wallwash distribution is also available, providing exceptional uniformity and brightness for walls and signage.
<u>Features</u>	
Construction	Walk over compliant up to 500 kg in any type of ground, Walk over compliant up to 1000 kg in concrete
Color and Color Temperature	2200K, 2700K, 3000K, 3500K, 4000K, Red, Green, Blue
Length (nominal)	12 in, 24 in, 36 in, 48 in
Optics	Asymmetric wallwash, 8° x 8°, 10° x 10°, 10° x 30°, 10° x 60°, 10° x 90°, 15° x 25°, 30° x 30°, 30° x 60°, 35° x 35°, 50° x 80°, 60° x 60°, 80° x 80°, 90° x 90°
Tilt Setting (factory set)	0 degrees, 2.5 degrees, 5 degrees, 20 degrees
Optical Option	Internal louver
Options	Anti-slip lens, CE (certification covers European Economic Area)
Power Consumption	5 W/ft (meets ASHRAE standards for linear lighting on building facades - not available for 12 in fixture lengths), 8.5 W/ft (RO version), 15.25 W/ft (HO version), Typically 20% higher for 12 in fixture lengths
Warranty	5-year limited warranty

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EM - R24 1 / 11

Specification Sheet

lumenfacade WHITE AND STATIC COLORS

Colors and Color Temperatures 2200K 2700K 3000K 3500K 4000K

ON/OFF 0-10V DALI



Certifications

IP68 IK10

Performance Maximum Delivered Output 4,730 lm (48 in fixture, 4000K, 30° x 30°, 0° tilt setting, DMX/RDM) Maximum Delivered Intensity 59,238 cd at nadir (48 in fixture, 4000K, 8° x 8°, 0° tilt setting, DMX/RDM) Illuminance at Distance Minimum 1 fc at 243 ft (48 in fixture, 4000K, 8° x 8°, 0° tilt setting, DMX/RDM) Color Consistency 2 SDCM, 3 SDCM (2200K) Color Rendering Minimum CRI 80 L70 280,000 hrs, L95 35,000 hrs Physical **Optical Chamber Material** Aluminum **Blockout Material** Polymer recycled PVC reinforced with a stainless steel frame Trim Material Anodized aluminum Lens Material Tempered glass **End Cap Material** Die cast aluminum **Hardware Material** Stainless steel Weight 12 in: 7.5 lbs, 24 in: 15.3 lbs, 36 in: 21.4 lbs, 48 in: 27 lbs Electrical and control Voltage 120 to 277 volts Fixture Cable Power and data in one cable Leader Cable Conductor Connectors IP68 push-lock Control On/Off control, Lumentalk, 0-10V dimming, DALI dimming, Lutron® EcoSystem® Enabled dimming, DMX/RDM enabled Resolution (DMX/RDM) Per foot or per fixture (configured with LumenID V3 software), 8bit or 16-bit Environmental Storage Temperature -40 °F to 185 °F (device must reach start-up temperature value before operating) Start-up Temperature -13 °F to 122 °F Operating Temperature -40 °F to 122 °F Ingress Protection Rating IP68 rated for up to 1 ft, not suitable for permanent immersion applications Impact Resistance Rating IK10 Accessories (order separately) Lumenfacade Inground Leader Cable, Lumenfacade Inground Jumper Cable

Lumenfacade Inground Junction Box

lumenpulse"	1220 Marie-Victorin Blvd., Longueuil, QC, J4G 2H9, CA info@lumenpulse.com www.lumenpulse.com	T United States 617.307.5700 Canada 1.877.937.3003 514.937.3003 www.lumenpuke.com/products/2556	F 514.937.6289
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Electrical Accessories



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Infinity Engineering Group

	K,V	08/26/24	Permit Set

PROJECT INFORMATION BLOCK JOB# 230649/15-328.00 DATE: 04/28/2024 **DRAWN BY:** CHECKED BY: AM

SHEET TITLE

EXTERIOR LIGHTING CUTSHEETS