# GREEN COVE STORAGE OFFICE PROPOSED WAREHOUSE **409 PALMETTO AVENUE, GREEN COVE SPRINGS, FL**

## CIVIL ENGINEERING LEGEND

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DESCRIPTION PROPERTY LINE RIGHT-OF-WAY LINE CENTERLINE - FENCE RETAINING WALL BUILDING PAVEMENT LINE/SIDEWALK LINE CURB, CURB AND GUTTER SPOT ELEVATIONS CONTOURS SANITARY SEWER/CLEANOUT PROCESS WASTE ROOF DRAIN STORM SEWER DOMESTIC WATER FIRE MAIN GAS MAIN FORCE MAIN UNDERGROUND ELECTRIC OVERHEAD ELECTRIC UNDERGROUND TELEPHONE OVERHEAD TELEPHONE UNDERDRAIN FIRE HYDRANT DOUBLE CHECK VALVE ASSEMBLY RED. PRESSURE BACKFLOW PREVENTER POST INDICATOR VALVE - VALVE - VALVE & BOX MANHOLE SPRINKLER RISER WATER METER CATCH BASIN - CURB INLET FLARED END MITERED END CONCRETE FLUME ENDWALLS - CONTROL STRUCTURE CONCRETE POWER POLE WOOD POWER POLE LIGHT POLE TRANSFORMER VAULTS DRAINAGE STRUCTURE SANITARY SEWER STRUCTURE SECTION CUT DETAIL REFERENCE CURVE NUMBER \_\_\_\_\_ SILT FENCE HAYBALE BARRIER SOIL BORING LOCATION/NUMBER

LEGAL DESCRIPTION

THE SOUTH 48 FEET OF THE EAST 1/2 OF LOT 1, BLOCK 20, NORTH SUBURBS OF GREEN COVE SPRINGS, ACCORDING TO THE PLAT THEREOF RECORDED IN PLAT BOOK 1, PAGE 10, IN THE PUBLIC RECORDS OF CLAY COUNTY, FLORIDA.



LOCATION MAP (NOT TO SCALE)

### CIVIL DRAWING INDEX

C000 C050	COVER SHEET CIVIL NOTES AND SPECS
C100	CLEARING, DEMOLITION, AND EROSION CONTROL PLAN
C200	SITE GEOMETRY PLAN
C300	SITE GRADING PLAN
C400	SITE DRAINAGE AND UTILITIES PLAN
C500	CIVIL DETAILS I
C510	CIVIL DETAILS II
L—1	TREE REMOVAL / PROTECTION PLAN
L-2	LANDSCAPE / IRRIGATION PLAN
L-3	LANDSCAPE DETAILS

OWNER

SURVEY

LANDSC

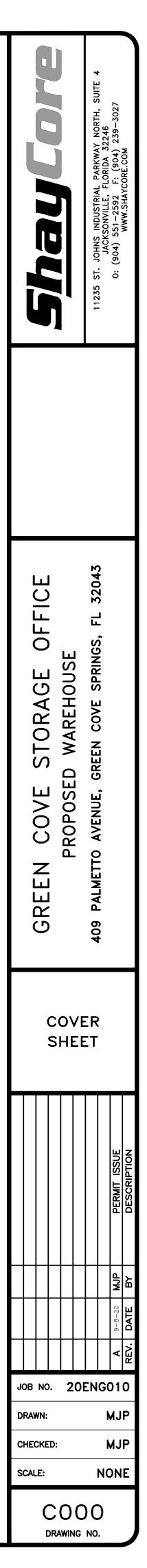
GEOTECH



PR	OJECT DESIGN TEAM
/DEVELOPER:	FUSILLI INVESTMENTS, LLC 2801 ST. JOHNS BLUFF ROAD, SUITE 201 JACKSONVILLE, FL 32246
YOR:	PERRET AND ASSOCIATES, INC. 1484 MONTICELLO ROAD JACKSONVILLE, FL 32207 (904) 805–0030
CAPE ARCHITECT:	A & K LAND PLANNING & DESIGN 416 TORTOISE TRACE SAINT JOHNS, FL 32259 (904) 476–9692
CHNICAL ENGINEER:	AGES OF JAX, INC. 9556 HISTORIC KINGS ROAD SOUTH, SUITE 201 JACKSONVILLE, FL 32257 (904) 886–0766



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# TERMITE PROTECTION SPECIFICATIONS:

- PERFORM ALL CHEMICAL TREATMENT SPECIFIED HEREIN IN ACCORDANCE WITH CURRENT REQUIREMENTS OF GOVERNING REGULATIONS. USE REGISTERED AND LICENSED APPLICATORS, WHERE SUCH IS REQUIRED BY FEDERAL, STATE, OR LOCAL AUTHORITY.
- A PERMANENT SIGN WHICH IDENTIFIES THE TERMITE TREATMENT PROVIDER AND NEED FOR RE-INSPECTION AND TREATMENT CONTRACT RENEWAL SHALL BE PROVIDED. THE SIGN SHALL BE POSTED NEAR THE WATER HEATER OR ELECTRIC PANEL.
- UPON COMPLETION OF THE WORK, GUARANTEE THE EFFECTIVENESS OF THE TREATMENT AGAINST TERMITE INFESTATION FOR A MINIMUM PERIOD OF ONE YEAR. IF INFESTATION SHOULD OCCUR WITHIN THE GUARANTEE PERIOD, RE-TREAT THE SOIL AND REPAIR ALL ASSOCIATED DAMAGES. OWNER SHALL HAVE THE RIGHT TO RENEW AT THE END OF THE GUARANTEE PERIOD.
- 4. A CERTIFICATE OF COMPLIANCE SHALL BE ISSUED BY A LICENSED PEST CONTROL COMPANY. THE CERTIFICATE OF COMPLIANCE SHALL STATE: "THE BUILDING HAS RECEIVED A COMPLETE TREATMENT FOR THE PREVENTION OF SUBTERRANEAN TERMITES. THE TREATMENT IS IN ACCORDANCE WITH THE RULES AND LAWS OF THE DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES."
- ONLY CHEMICALS APPROVED BY LOCAL, STATE, OR FEDERAL REGULATIONS SHALL BE USED. SUBCONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE INTENDED CHEMICAL TO BE USED IS NOT PROHIBITED BY APPLICABLE REGULATIONS.
- LOOSE WOOD AND FILL SHALL BE REMOVED FROM BELOW AND WITHIN ONE FOOT OF THE BUILDING. THIS INCLUDES ALL GRADE STAKES, FORMS, SHORING, OR OTHER CELLULOSE-CONTAINING MATERIAL.
- DO NO SOIL POISONING WORK UNTIL ALL SUB-GRADE WORK IS COMPLETE AND READY FOR CONCRETE PLACEMENT OR OTHER FINISHED WORK. DO NOT APPLY SOIL POISON WHEN SURFACE WATER IS PRESENT.
- IF WALLS ARE TO RECEIVE A MOISTURE-PROOFING COATING, APPLY CHEMICALS ONLY AFTER COATINGS ARE THOROUGHLY DRIED. 9. CONCRETE OVER-POUR AND MORTAR ALONG THE FOUNDATION PERIMETER MUST BE REMOVED BEFORE EXTERIOR
- SOIL TREATMENT. 10. AN EXTERIOR VERTICAL CHEMICAL BARRIER SHALL BE INSTALLED AFTER CONSTRUCTION IS COMPLETE, INCLUDING LANDSCAPING AND IRRIGATION. ANY SOIL DISTURBED AFTER THE VERTICAL BARRIER IS APPLIED SHALL BE
- APPLY SOIL TREATMENT BENEATH ALL SLAB AREAS AND A MINIMUM OF ONE FOOT BELOW THE FLOOR SLAB ALONG THE INTERIOR SIDE OF ABUTTING FOUNDATION WALLS. WHERE THE EXTERIOR OF THE WALL IS ABUTTED BY CONCRETE SLABS, ASPHALT PAVING, OR OTHER PERMANENT SURFACING, TREAT THE EXTERIOR SIDE OF FOUNDATION WALLS AS SPECIFIED FOR THE INTERIOR SIDE OF SUCH WALLS.
- 12. SOIL TREATMENT SHALL BE APPLIED UNDER ALL EXTERIOR CONCRETE OR GRADE WITHIN ONE FOOT OF THE STRUCTURE SIDE WALLS.
- 13. CONDENSATE AND ROOF DOWNSPOUTS SHALL DISCHARGE AT LEAST ONE FOOT AWAY FROM BUILDING SIDE WALLS. 14. IRRIGATION SYSTEMS, INCLUDING ALL RISERS AND SPRAY HEADS, SHALL NOT BE INSTALLED WITHIN ONE FOOT OF THE BUILDING SIDE WALLS.
- 15. SOIL DISTURBED AFTER THE INITIAL TREATMENT SHALL BE RETREATED, INCLUDING SPACES BOXED OR FORMED.
- 16. BOXED AREAS IN CONCRETE FLOORS FOR SUBSEQUENT INSTALLATION OF TRAPS, ETC., SHALL BE MADE WITH PERMANENT METAL OR PLASTIC FORMS. PERMANENT FORMS MUST BE OF A SIZE AND DEPTH THAT WILL ELIMINATE THE DISTURBANCE OF SOIL AFTER THE INITIAL TREATMENT.
- MINIMUM SIX MIL VAPOR RETARDER MUST BE INSTALLED TO PROTECT AGAINST RAINFALL DILUTION. IF RAINFALL 17. OCCURS BEFORE VAPOR RETARDER PLACEMENT, RE-TREATMENT IS REQUIRED.
- 18. NO WOOD, VEGETATION, STUMPS, CARDBOARD, TRASH, ETC. SHALL BE BURIED WITHIN 15 FEET OF ANY EXISTING OR PROPOSED BUILDING.

#### **GENERAL WATER SPECIFICATIONS:**

ALL LINED FITTINGS SHALL BE TESTED FOR DEFECTS, PRIOR TO INSTALLATION.

RETREATED

- MAINTAIN A MINIMUM OF 36" COVER IN PAVED AREAS AND 30" COVER IN NON-PAVED AREAS OVER ALL WATER MAINS UNLESS OTHERWISE NOTED. WATER LINES ARE DESIGNED TO FINISHED GRADE ELEVATIONS, AND SHALL BE PROTECTED FROM DAMAGE UNTIL ALL SITE-WORK HAS BEEN COMPLETED.
- WATER MAINS SHALL BE DR-18 PVC. UNLESS OTHERWISE NOTED. WATER SERVICES SHALL BE SCHEDULE 40 PVC. AND BE NSF APPROVED. THE DESIGN, MANUFACTURE, TESTING, AND METHOD OF INSTALLATION OF UNDERGROUND MAINS SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF NFPA STANDARD 24.
- 4. THE UTILITIES CONTRACTOR SHALL INDICATE THE LOCATION OF THE TERMINATION OF EACH WATER SERVICE WITH STAKES OR MARKERS.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL MATERIALS TO BE USED FOR CONSTRUCTION TO THE ENGINEER
- 6. IF GASOLINE FUMES OR OTHER CONTAMINATION IS ENCOUNTERED DURING EXCAVATION, THE CONTRACTOR, IN ACCORDANCE WITH HRS AND DEP REQUIREMENTS. AS SPECIFIED IN 62-555.3A(4), FAC. SHALL IDENTIFY THE CONTAMINATION AND DOCUMENT SUCH TO THE ENGINEER AND HRS IN WRITING. SPECIAL PIPE AND JOINT GASKETS MAY BE REQUIRED IN THIS INSTANCE. IF CONTAMINATION IS ENCOUNTERED, CONSTRUCTION SHALL STOP, UNTIL THE CONTRACTOR RECEIVES FURTHER DIRECTION FROM HRS AND THE ENGINEER.
- IF SOLVENT CONTAMINATION IS FOUND IN THE PIPE TRENCH, WORK SHALL BE STOPPED AND THE PROPER AUTHORITIES NOTIFIED. WITH APPROVAL OF THE PERMITTING AGENCY, DUCTILE IRON PIPE, FITTINGS AND SOLVENT RESISTANT GASKET MATERIAL SHALL BE USED IN THE CONTAMINATED AREA. THE DUCTILE IRON PIPE SHALL EXTEND AT LEAST 100 FEET BEYOND ANY SOLVENT NOTED.
- 8. A MINIMUM DISTANCE OF 10 FEET, OR 2 TIMES THE DEPTH OVER THE MAIN, WHICHEVER IS GREATER, MUST BE MAINTAINED FROM ALL BUILDINGS, FOUNDATIONS, AND THE TOP OF BANK OF ALL PONDS.
- 9. ALL PIPE CONSTRUCTION AND TESTING SHALL CONFORM TO THE APPROPRIATE AWWA STANDARDS.
- 10. ALL PIPES, VALVES, AND FITTINGS SHALL BE SUBJECT TO INSPECTION AT TIME OF DELIVERY AND ALSO IN THE FIELD JUST PRIOR TO INSTALLATION. ALL PIPES, VALVES, OR FITTINGS THAT, IN THE OPINION OF THE ENGINEER. DO NOT CONFORM TO THE PROJECT DRAWINGS AND SPECIFICATIONS, WILL BE REJECTED, AND SHALL BE REMOVED BY THE CONTRACTOR AT HIS EXPENSE.
- THE UTILITIES CONTRACTOR SHALL PREPARE ALL DOCUMENTS AND OBTAIN REQUIRED CERTIFICATES OF INSPECTION FOR HIS WORK AND DELIVER SAME TO THE ENGINEER.
- 12. PVC PIPE FOUR INCHES AND LARGER MUST MEET THE REQUIREMENTS AS SET FORTH IN COMMERCIAL STANDARD CS256-63, FOR CONTRACTION AND EXPANSION AT EACH JOINT. PIPE AND FITTING MUST BE ASSEMBLED WITH A NON-TOXIC LUBRICANT.
- 13. DUCTILE IRON PIPE SHALL CONFORM TO ANSI SPECIFICATION A21.50 (AWWA C150) LATEST, "THICKNESS DESIGN OF DUCTILE IRON PIPE," TABLE 50.5, LAYING CONDITION TYPE 2, INTERNAL OPERATING PRESSURE 250 PSI FOR AN EIGHT-FOOT DEPTH OF COVER, CLASS 51 MINIMUM, AND SHALL BE ANSI A21.51 (AWWA C151), LATEST, CENTRIFUGALLY CAST PIPE. EACH LENGTH SHALL BE CLEARLY MARKED WITH PRESSURE RATINGS, THICKNESS CLASS, WEIGHT OF PIPE WITHOUT LINING, LENGTH, AND MANUFACTURER.
- 14. ALL JOINTING MATERIALS FOR MECHANICAL JOINTS SHALL BE PROVIDED BY THE PIPE AND FITTING MANUFACTURER. MATERIAL ASSEMBLY AND BOLTING SHALL BE IN STRICT ACCORDANCE WITH THE LATEST REVISION OF ANSI SPECIFICATION A21.11 (AWWA C111).
- 15. PIPE USING ROLL-ON OR SLIP JOINTS SHALL BE IN STRICT ACCORDANCE WITH THE LATEST REVISION OF ANSI SPECIFICATION A21.11 (AWWA C111). ALL JOINT MATERIAL SHALL BE PROVIDED BY THE PIPE MANUFACTURER, AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED PRACTICE.
- 16. ALL EXISTING WATER MAINS AND SERVICE LINES SHALL BE KEPT IN OPERATION DURING CONSTRUCTION. WHERE DISRUPTION CANNOT BE AVOIDED. INTERRUPTION OF WATER SERVICE DURING CONSTRUCTION SHALL BE MINIMIZED.
- 17. ALL WATER LINES AND APPURTENANCES SHALL BE THOROUGHLY CLEANED OF ALL FOREIGN MATTER BEFORE BEING LOWERED INTO THE TRENCH AND SHALL BE KEPT CLEAN DURING LAYING OPERATIONS BY MEANS OF PLUGS OR OTHER APPROVED METHODS. ALL PIPES SHALL BE CHECKED FOR DEFECTS BEFORE BEING LOWERED INTO THE TRENCH. DEFECTIVE PIPE SHALL NOT BE USED. PIPE FOUND TO BE DEFECTIVE, AFTER INSTALLATION, SHALL BE REMOVED WITH SOUND PIPE AT THE EXPENSE OF THE CONTRACTOR. THE FULL LENGTH OF EACH SECTION SHALL REST SOLIDLY UPON THE PIPE BED, WITH RECESS EXCAVATED TO ACCOMMODATE THE BELLS AND JOINTS. ANY PIPE THAT HAS THE GRADE OR JOINT DISTURBED AFTER LAYING SHALL BE TAKEN UP AND RE-LAID. THE PIPE SHALL NOT BE LAID IN WATER, OR WHEN TRENCH OR WEATHER CONDITIONS ARE UNSUITABLE FOR THE WORK. ALL JOINTS SHALL BE CLEANED OF ALL MATTER OF EVERY DESCRIPTION BEFORE MAKING THE JOINT.
- 18. UNDERGROUND SYSTEM SHALL BE THOROUGHLY FLUSHED UNDER HYDROSTATIC PRESSURE IN ACCORDANCE WITH AWWA STANDARD C605 FOR PVC PIPE, AND IN ACCORDANCE WITH AWWA STANDARD C600 FOR OTHER PIPE MATERIALS. THIS PRESSURE SHALL BE NO LESS THAN 200 PSI AND SHALL BE MAINTAINED FOR TWO HOURS, OR AS REQUIRED BY THE APPROPRIATE AWWA STANDARD.
- THE LEAKAGE IN THE UNDERGROUND LINES SHALL NOT EXCEED THE LIMITS AS SPECIFIED BY THE APPROPRIATE AWWA STANDARD. IF SUCH LEAKAGE OCCURS AT ANY JOINTS, REPAIRS SHALL BE MADE. LEAKAGE SHALL BE MEASURED AT THE SPECIFIED PRESSURE BY PUMPING FROM A CALIBRATED CONTAINER.

#### STORM DRAINAGE SPECIFICATIONS:

- ORDERED UNTIL FABRICATION DRAWINGS HAVE BEEN APPROVED BY THE ENGINEER.
- JOINTS SHALL BE PROVIDED WITH O-RING GASKETS, AND SHALL BE WATERTIGHT.
- PVC PIPE AND FITTINGS SHALL HAVE A SMOOTH INTERIOR WALL AND SHALL CONFORM WITH ASTM D3034. ALL WATERTIGHT.
- COMPLETELY WRAPPED IN GEOTEXTILE FABRIC TO CREATE A WATERTIGHT JOINT.
- JOINTS WATERTIGHT.
- PRIOR TO FINAL ACCEPTANCE OF THE SUBCONTRACTOR'S WORK BY THE CONTRACTOR.

- INSPECTION.
- ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CLEARING.
- 3. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- SHALL SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND APPROVAL BY THE PLAN APPROVING AUTHORITY.
- AUTHORITY.
- ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.

- STATE REQUIREMENTS.
- CONSTRUCTION WHEN DISTURBED AREAS HAVE BEEN STABILIZED.
- PERMANENT SEEDING IN ACCORDANCE WITH LOCAL REGULATIONS.
- SUPPORTED BY THE INLET GRATE, OR AN APPROVED ALTERNATIVE FILTRATION DEVICE.
- PERMANENT DRIVEWAY

SUBCONTRACTOR SHALL SUBMIT MANUFACTURER'S DATA SHEETS FOR ALL PIPE AND FITTINGS TO BE USED ON THE PROJECT. SUBCONTRACTOR SHALL SUBMIT FABRICATION DRAWINGS, SHOWING ALL INVERT ELEVATIONS, GRATE AND WEIR ELEVATIONS, WEIR AND ORIFICE DIMENSIONS, AND SIZE OF PIPE OPENINGS. STRUCTURES SHALL NOT BE

REINFORCED CONCRETE PIPE SHALL COMPLY WITH THE REQUIREMENTS OF ASTM DESIGNATION C76. CLASS III.

PVC PIPE SHALL HAVE BELL AND SPIGOT ENDS, AND BE JOINED WITH A GASKET JOINT. ALL JOINTS SHALL BE

HIGH DENSITY POLYETHYLENE (HDPE) PIPE SHALL HAVE A SMOOTH INTERIOR WALL AND SHALL CONFORM TO ASTM D3350. ALL HDPE PIPE SHALL HAVE BELL AND SPIGOT ENDS, AND BE JOINTED WITH A GASKET JOINT. ALL JOINTS SHALL BE WATERTIGHT. SOIL-TIGHT JOINTS WITH BANDED COUPLINGS ARE NOT ACCEPTABLE, UNLESS

PIPE SHALL BE INSTALLED ACCURATELY TO THE GRADES AND ALIGNMENT SHOWN ON THE DRAWINGS. LAY PIPE WITH BELL ENDS UPSTREAM AND ADJUST SPIGOTS IN BELLS TO PROVIDE UNIFORM SPACE ALL AROUND. MAKE ALL

PRIOR TO DEMOBILIZING, SUBCONTRACTOR SHALL INSPECT ALL STRUCTURES, AND REMOVE ALL ACCUMULATED SEDIMENT OR TRASH FROM WITHIN STRUCTURES. SUBCONTRACTOR SHALL ENSURE THAT ALL PIPE OUTLETS ARE CLEAR AND FREE-FLOWING. ALL PIPE OUTLETS SHALL BE INSPECTED FOR EROSION, AND PROPERLY STABILIZED,

#### EROSION AND SEDIMENT CONTROL SPECIFICATIONS:

THE PLAN APPROVING AUTHORITY MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITY, AND ONE WEEK PRIOR TO THE FINAL

PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO, OFF-SITE BORROW OR WASTE AREAS), THE SITE-WORK SUBCONTRACTOR

THE SITE-WORK SUBCONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE PLAN APPROVING

ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL AT ALL TIMES DURING LAND DISTURBING

DURING DE-WATERING OPERATIONS, WATER SHALL BE PUMPED INTO AN APPROVED FILTERING DEVICE.

THE SITE-WORK SUBCONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.

THE SITE-WORK SUBCONTRACTOR WILL BE REQUIRED TO INCORPORATE ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES INTO THE PROJECT AT THE EARLIEST PRACTICAL TIME DURING CONSTRUCTION. THE EROSION CONTROL MEASURE DETAILED HEREIN SHALL BE CONTINUED UNTIL THE PERMANENT DRAINAGE FACILITIES HAVE BEEN CONSTRUCTED AND UNTIL ALL DISTURBED AREAS HAVE BEEN REESTABLISHED SO AS TO ESTABLISH AN EFFECTIVE EROSION DETERRENT. ALL COLLECTED SEDIMENT REMOVED FROM IMPOUNDMENT AREAS SHALL BE EVENLY DISTRIBUTED AND PERMANENTLY ESTABLISHED.

10. TEMPORARY AND PERMANENT VEGETATIVE COVER SHALL BE INSTALLED IN ACCORDANCE WITH ALL LOCAL AND

11. SITE-WORK SUBCONTRACTOR SHALL CLEAN OUT ALL ACCUMULATED SILT IN DETENTION PONDS AT END OF

12. ALL DISTURBED AREAS OUTSIDE OF EXISTING AND PROPOSED PAVEMENT SHALL RECEIVE TEMPORARY AND

13. PROVIDE SILT INLET PROTECTION AT ALL PROPOSED INLETS SHOWN ON THESE PLANS. USING A SILT SACK INSERT

14. PROVIDE TEMPORARY STONE CONSTRUCTION ENTRANCE AS DETAILED HEREIN, AT THE LOCATION OF THE

#### EARTHWORK SPECIFICATIONS:

- THE REPORT OF PRELIMINARY GEOTECHNICAL EXPLORATION & ENGINEERING EVALUATION, PROPOSED NARDUCCI DENTAL WAREHOUSE, PREPARED BY AGES OF JAX, JOB NO. J19348, REPORT NO. 001, DATED JULY 13, 2020, SHALL BE CONSIDERED PART OF THESE CONSTRUCTION DOCUMENTS AS IF FULLY REPEATED HEREIN. CONTRACTOR SHALL REVIEW THIS REPORT FOR FULL EARTHWORK SPECIFICATIONS AND RECOMMENDATIONS.
- A MOISTURE DENSITY RELATIONSHIP DETERMINATION TEST SHALL BE OBTAINED FOR EACH TYPE OF FILL MATERIAL USED, IN ACCORDANCE WITH ASTM STANDARDS.
- IN-PLACE DENSITY TESTS ARE REQUIRED FOR ALL STRIPPED OR CUT SUB-GRADE AREAS THAT ARE SPECIFIED TO BE COMPACTED, FOR FOR EACH LAYER OF FILL. A MINIMUM OF TWO TESTS OR ONE TEST FOR EVERY 10,000 SF ARE REQUIRED FOR BOTH THE BUILDING AND PAVEMENT AREAS, OR AS REQUIRED BY THE GEOTECHNICAL REPORT. RE-TESTS WILL BE REQUIRED IN RE-COMPACTED AREAS.
- TAKE RESPONSIBILITY FOR THE REPAIR OR REPLACEMENT OF ANY UTILITY LINES OR SERVICES DAMAGED DURING THE COURSE OF THIS WORK.
- TAKE RESPONSIBILITY FOR FURNISHING, PLACING, AND MAINTAINING ALL SUPPORT, SHORING, AND SHEET PILING WHICH MAY BE REQUIRED FOR THE PROTECTION OF SITE PERSONNEL AND ADJACENT EXISTING IMPROVEMENTS.
- MAINTAIN ALL BENCHMARKS, MONUMENTS, AND OTHER REFERENCE POINTS FURNISHED BY OTHERS, AND REPLACE ANY THAT ARE DISTURBED OR DESTROYED DURING THE COURSE OF THIS WORK.
- DO NOT DAMAGE ANY TREES NOT INDICATED FOR REMOVAL. PROTECT TREES NEAR THIS WORK SO AS TO PREVENT DAMAGE TO THE BRANCHES, BARK, AND SOIL AROUND THE ROOT SYSTEM. PROTECTION DEVICES SHALL BE IN ACCORDANCE WITH LOCAL STANDARDS.
- REMOVE AND DISPOSE OF ALL TREES, BRUSH, VEGETATION, DEBRIS, AND ANY OTHER ORGANIC OR WASTE MATERIAL FROM ALL AREAS DESIGNATED TO BE CLEARED. REMOVE ALL MATERIAL TO ITS FULL DEPTH OR EXTENT UNLESS OTHERWISE INDICATED OR DIRECTED BY THE ENGINEER. IF PERMITTED BY LOCAL AUTHORITIES, ON SITE BURNING WILL BE ALLOWED.
- STAGE CLEARING AND SEEDING SO THAT NO AREAS ARE LEFT DEFOLIATED FOR MORE THAN 30 DAYS, OR AS ALLOWED BY LOCAL AND STATE CODES, PRIOR TO BEGINNING FINAL CONSTRUCTION OR PAVING, UNLESS OTHERWISE AUTHORIZED.
- 10. WHERE EXISTING PAVEMENT IS ENCOUNTERED ON THE SITE, IT MAY BE RETAINED IN CERTAIN AREAS AT THE DISCRETION OF THE ENGINEER. RETAINING THIS MATERIAL WILL ONLY BE PERMITTED WHEN THE MATERIAL IS PROPERLY PULVERIZED AND THOROUGHLY RE-COMPACTED TO THE SATISFACTION OF THE ENGINEER. RETAINING EXISTING PAVING MATERIAL WILL NOT BE PERMITTED IN AREAS TO BE LANDSCAPED OR GRASSED.
- STRIP ALL TOPSOIL FROM THE BUILDING AND PAVEMENT AREAS. ALL EXCESS STRIPPED MATERIAL SHALL BE 11. HAULED OFF SITE.
- 12. DO NOT INCLUDE CLAY, STONES LARGER THAN 3/4 INCHES IN DIAMETER, WEEDS, ROOTS, RUBBISH, OR ANY OTHER FOREIGN MATTER IN THE TOPSOIL MATERIAL TO BE USED IN THE ON SITE LANDSCAPE AREAS.
- 13. PROOF-ROLL STRIPPED OR CUT SUB-GRADE IN BUILDING AND PAVEMENT AREAS PRIOR TO COMPACTION OF EXISTING SUB-GRADE, OR PLACEMENT OF FILL, USING A LOADED DUMP TRUCK OR OTHER HEAVY, LARGE-TIRE VEHICLE. DETERMINE ZONES OF LOOSE, WET, OR SOFT ORGANIC MATERIAL. IF A PUMPING CONDITION OCCURS, IMMEDIATELY STOP PROOF-ROLLING OPERATIONS TO AVOID FURTHER SUBSURFACE DISTURBANCE. PROOF-ROLLING SHALL BE PERFORMED IN THE PRESENCE OF THE GEOTECHNICAL ENGINEER IN ORDER TO AID IN EVALUATING UNSTABLE SUB-GRADE AREAS.
- WHERE SOFT MATERIALS OR ORGANIC SOILS OCCUR AT SUB-GRADE ELEVATIONS BENEATH THE BUILDING OR PAVEMENT, NOTIFY THE ENGINEER WITH AN ESTIMATE OF THE AMOUNT OF UNSUITABLE MATERIAL, AND THE COST FOR UNDERCUTTING AND REPLACEMENT FILL. ENGINEER SHALL OBTAIN OWNER'S AUTHORIZATION OF UNDERCUTTING AND REPLACEMENT FILL COSTS PRIOR TO SITE-WORK CONTRACTOR PROCEEDING WITH ANY UNDERCUTTING OF UNSUITABLE MATERIAL. FOLLOWING OWNER AUTHORIZATION, EXCAVATE DOWN TO SUITABLE SUB-GRADE, AS DETERMINED BY THE GEOTECHNICAL ENGINEER, AND BACKFILL WITH STRUCTURAL FILL. PLACE AND COMPACT STRUCTURAL FILL IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.
- 15. GRADE AREAS TO RECEIVE TOPSOIL TO ALLOW FOR SUCH MATERIAL. LEAVE FINISHED SURFACES AND SURFACES TO RECEIVE PAVING SMOOTH, COMPACTED, AND FREE FROM IRREGULAR SURFACE DRAINAGE.
- 16. SURFACES SHALL NOT VARY FROM THE DESIGN GRADES BY MORE THAN 0.05 FEET UNDER PAVING AND CONCRETE SLABS, AND BY NOT MORE THAN 0.10 FEET UNDER OTHER FINISHED SURFACES.
- 17. PLACE FILL AND BACKFILL IN SUCCESSIVE LAYERS NOT TO EXCEED THE MAXIMUM LIFT THICKNESS' LISTED IN THE GEOTECHNICAL REPORT. COMPACT EACH LAYER TO THE MINIMUM RELATIVE DENSITIES SPECIFIED IN THE GEOTECHNICAL REPORT ARE ACHIEVED. RE-COMPACT AREAS WHICH FAIL TO MEET THE COMPACTION REQUIREMENTS UNTIL PASSING RESULTS ARE ACHIEVED.
- 18. COMPACT AND STABILIZE THE PAVEMENT SUB-GRADES TO THE DEPTH SPECIFIED IN THE GEOTECHNICAL REPORT, MEETING THE MINIMUM LIMEROCK BEARING RATIOS SPECIFIED THEREIN.
- 19. DURING ALL SITE CLEARING AND GRADING OPERATIONS, PROVIDE PROPER TEMPORARY DRAINAGE, COMPLETE WITH REQUIRED TRENCHING AND PUMPING EQUIPMENT. TO ADEQUATELY DISPENSE SURFACE AND/OR SUBSURFACE WATER, AND TO ENSURE THAT THE SITE IS KEPT IN AN ACCESSIBLE AND WORKABLE CONDITION AT ALL TIMES. PROVIDE DE-WATERING AS NECESSARY TO MAINTAIN A SEPARATION OF AT LEAST TWO FEET BETWEEN THE GROUNDWATER AND ALL COMPACTION SURFACES. PERFORM TEMPORARY DRAINAGE WORK IN CONFORMANCE WITH ALL GOVERNING REGULATIONS, INCLUDING PROTECTIVE MEASURES SUCH AS SILT SCREENS, HAY BALES, SETTLING PONDS, AND SIMILAR DEVICES AS REQUIRED BY SUCH REGULATIONS. AT THE CONCLUSION OF THE PROJECT, PRIOR TO SPREADING THE TOPSOIL, RESTORE ALL AREAS USED FOR TEMPORARY DRAINAGE TO THE GRADES AND ELEVATIONS SHOWN ON THE DRAWINGS.
- 20. COMPACT THE BUILDING AREA, PAVING AREA, AND AN AREA FIVE FEET BEYOND THE EDGE OF ALL BUILDING AND PAVING LINES, IN ACCORDANCE WITH THE GEOTECHNICAL REPORT. DO NOT USE HEAVY VIBRATORY EQUIPMENT WITHIN 60 FEET OF EXISTING BUILDINGS.
- 21. ALL FILL AND BACKFILL MATERIAL. WHETHER FROM ON SITE OR IMPORTED, MUST BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING IT ON THE SITE. IMPORT FILL SHALL CONSIST OF A GRANULAR MATERIAL FREE OF CLAY, SILT, OR ORGANIC MATERIAL, AND SHALL MEET THE REQUIREMENTS SPECIFIED IN THE GEOTECHNICAL REPORT. IMPORT FILL SHALL BE FREE OF MATERIAL THAT WOULD DEEM THE FILL HAZARDOUS, AS DEFINED BY THE STANDARDS OF THE ENVIRONMENTAL AUTHORITIES HAVING JURISDICTION.
- 22. MINIMIZE THE TRANSMISSION OF DIRT OR DEBRIS BY EQUIPMENT OR PERSONNEL TO ANY PROPERTY. PUBLIC OR PRIVATE, OUTSIDE THE PROJECT SITE. IMMEDIATELY REMOVE ANY SUCH DEBRIS OR DIRT TRANSMITTED.
- 23. WORK SPECIFIED HEREIN SHALL BE SUBJECT TO INSPECTION AND TESTING BY AN INDEPENDENT TESTING LABORATORY SELECTED BY THE GENERAL CONTRACTOR.
- 24. FOOTING BEARING SOILS SHALL BE DENSITY TESTED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT. IN THE ABSENCE OF ANY SUCH RECOMMENDATIONS, ONE DENSITY TEST IS REQUIRED IN THE BOTTOM OF 25 PERCENT OF THE ISOLATED FOOTINGS AND AT 100-FOOT INTERVALS IN THE CONTINUOUS FOOTINGS.
- 25. MAKE EXCAVATIONS TO THE DIMENSION AND ELEVATION INDICATED ON THE DRAWINGS. EXTRA PAYMENT WILL NOT BE MADE FOR EXCAVATIONS CARRIED BELOW INDICATED GRADES. WHERE UNAUTHORIZED EXCAVATIONS ARE MADE BELOW INDICATED ELEVATIONS UNDER SLABS, RESTORE TO PROPER ELEVATION AS SPECIFIED FOR COMPACTED BACKFILLING. IF UNDER FOOTINGS, PAY FOR THE COST OF THE EXTRA CONCRETE REQUIRED FOR THE EXTRA WALL OR FOOTING DEPTH.
- 26. CONCRETE MAY BE CAST AGAINST VERTICAL EXCAVATED SURFACES PROVIDED THE MATERIAL WILL STAND WITHOUT CAVING. THEREFORE, TAKE CARE TO MAINTAIN THE CROSS SECTION AS SHOWN ON THE DRAWINGS. ALLOW SUFFICIENT WIDTH WHEN EXCAVATING FOR FORMED CONCRETE TO ALLOW FOR CONSTRUCTION AND REMOVAL OF FORMS. ALLOW SUFFICIENT WIDTH WHEN EXCAVATING FOR BELOW-GRADE WALLS TO ALLOW FOR APPLICATION OF WATERPROOFING AND DRAINAGE MATERIALS AS SPECIFIED AND SHOWN ON THE DRAWINGS.
- 27. DEPOSIT EXCESS EXCAVATED MATERIAL AND MATERIAL DETERMINED UNSUITABLE FOR USE AS FILL OR TOPSOIL OFF SITE, OR AS DIRECTED BY THE GENERAL CONTRACTOR.
- 28. WHERE SOFT, ORGANIC, OR WET MATERIALS ARE PRESENT IN THE BOTTOM OF FOOTING OR UTILITY EXCAVATIONS, NOTIFY THE ENGINEER. FOLLOWING OWNER AUTHORIZATION OF UNDERCUTTING FOOTING OR UTILITY TRENCH SUB-GRADE, EXTEND THE EXCAVATE DEEPER TO SUITABLE SOILS. THE FOOTING MAY BEAR DIRECTLY ON THESE SOILS AT THE LOWER LEVEL OR ON LEAN CONCRETE BACKFILL PLACED IN THE EXCAVATIONS. AS AN ALTERNATIVE, FOOTINGS MAY ALSO BEAR ON PROPERLY COMPACTED BACKFILL EXTENDING DOWN TO THE SUITABLE SOILS. OVER-EXCAVATION FOR COMPACTED BACKFILL PLACEMENT BELOW FOOTINGS SHALL EXTEND LATERALLY BEYOND ALL EDGES OF THE FOOTINGS AT LEAST EIGHT INCHES PER FOOT OF OVER-EXCAVATION DEPTH BELOW FOOTING BASE FLEVATION.
- 29. DO NOT PLACE BACKFILL AROUND, AGAINST, OR UPON ANY CONCRETE OR MASONRY STRUCTURE UNTIL STRUCTURE HAS OBTAINED SUFFICIENT STRENGTH TO WITHSTAND THE LOADS IMPOSED, AS DETERMINED BY THE ENGINEER. OR WHEN PROPERLY BRACED OR SHORED.

#### PADS, SIDEWALKS, CURBS, RAMPS, AND BUMPER SPECIFICATIONS:

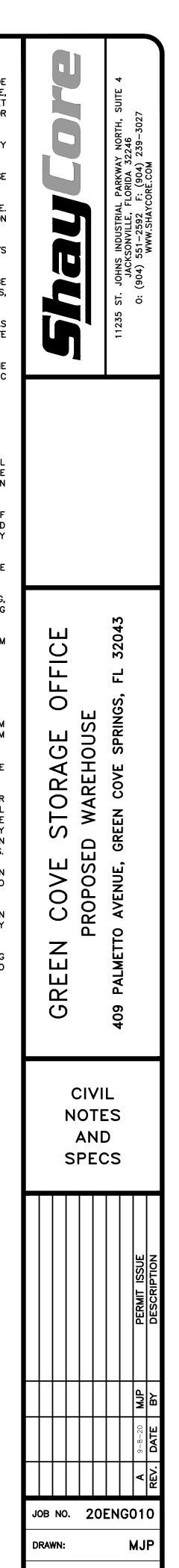
- FINE GRADE THE AREA TO BE IMPROVED TO WITHIN PLUS OR MINUS 0.05 FEET OF THE DESIGNED SUB-GRADE ELEVATIONS, AND REMOVE ALL EXCESS MATERIAL FROM THE SITE. CONSTRUCT THE SUB-GRADE TRUE TO GRADE, HARD, UNIFORM, AND SMOOTH, USING METHODS AND EQUIPMENT AS REQUIRED. FINAL COMPACTION SHALL MEET THE REQUIREMENTS OF THE GEOTECHNICAL REPORT. PROPERLY MOISTURIZE DRY SUB-GRADES WITH WATER PRIOR TO PLACING THE CONCRETE.
- 2. SURFACES SHALL BE CLEAN AND DRY BEFORE RECEIVING PAINT. METAL SURFACES SHALL BE FREE OF HEAVY
- PLACE THE CONCRETE ON MOIST SUB-GRADE FOR THE FULL DEPTH CALLED FOR ON THE PLANS. USE MECHANICAL VIBRATING EQUIPMENT FOR CONSOLIDATION TO ELIMINATE AIR BUBBLES OR STONE POCKETS.
- 4. BRING CONCRETE TO REQUIRED CROSS SECTION BY MEANS OF SCREEDS, FORMS, OR TEMPLATES AS APPROPRIATE. FINISH CONCRETE BY FLOATING AND TROWELING UNTIL SURFACE IS DENSE AND SMOOTH, TRUE TO CROSS SECTION AND GRADE, AND FREE FROM HUMPS OF DEPRESSIONS.
- PROVIDE THE FINAL FINISH BY LIGHTLY BROOMING THE SURFACE IMMEDIATELY BEFORE THE CONCRETE TAKES ITS 5. FINAL SET AS DIRECTED.
- SURFACE OF ALL HANDICAPPED ACCESSIBLE ROUTES INCLUDING WALKS, RAMPS, AND CURB RAMPS, SHALL BE FINISHED STABLE, FIRM, AND SLIP RESISTANT. TRANSITIONS FROM RAMPS AND CURB RAMPS, LANDINGS, WALKS, GUTTERS, OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES.
- CUT THE CAST-IN-PLACE CONCRETE INTO SECTIONS BY EXPANSION, CONSTRUCTION, OR CONTROL JOINTS, AS SHOWN ON THE DRAWINGS. PROVIDE EXPANSION JOINTS IN CURBS NO MORE THAT 50 FEET APART AND LOCATE CONTROL OR CONSTRUCTION JOINTS AT 10-FOOT INTERVALS.
- AS SOON AS FINISHING HAS BEEN COMPLETED, COVER THE CONCRETE WITH A CURING COMPOUND. APPLY THE CURING COMPOUND UNIFORMLY AT THE RATE RECOMMENDED BY THE MANUFACTURER. DO NOT ALLOW TRAFFIC ON THE SURFACE FOR A PERIOD OF 72 HOURS.

#### **GENERAL UTILITY NOTES:**

- EXISTING UTILITY LOCATIONS HAVE BEEN APPROXIMATED FROM THE AS-BUILT RECORDS PROVIDED BY THE LOCAL UTILITY AUTHORITY, AND HAVE NOT BEEN INDEPENDENTLY EVALUATED OR VERIFIED. THEREFORE, SHAYCORE ASSUMES NO RESPONSIBILITY FOR THE INACCURACY OF ANY UTILITY LOCATION OR SERVICE CONNECTION PORTRAYED ON THESE PLANS.
- 2. IT IS THE SOLE AND EXCLUSIVE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXACT LOCATION OF UTILITIES, AND THE SUITABILITY AND ACCURACY FOR A PARTICULAR USE OF THE UTILITY INFORMATION CONTAINED IN THESE DRAWINGS. CONTRACTORS SHALL FIELD VERIFY ALL DEPICTED UTILITY CONDITIONS PRIOR TO ANY CONSTRUCTION, TO ENSURE CONNECTION AVAILABILITY.
- PROVIDE HORIZONTAL SEPARATION BETWEEN UTILITIES AND TREES TO PROTECT BOTH THE UTILITIES AND THE
- WATER AND SEWER LINES SHALL BE CONSTRUCTED TO WITHIN FIVE FEET OF THE OUTSIDE FACE OF THE BUILDING AND IN THE CASE OF FIRE RISERS, THE FIRE MAIN SHALL BE CONSTRUCTED INTO THE BUILDING AND TERMINATING AT A FLANGE LOCATED 12 INCHES ABOVE FINISHED FLOOR ELEVATION.
- 5. THE CONTRACTOR SHALL GUARANTEE THE WORK INCLUDED IN THIS SECTION FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE.

#### **ON-SITE SEWER SPECIFICATIONS:**

- PVC PIPE AND FITTINGS SHALL CONFORM TO THE REQUIREMENTS OF ASTM SPECIFICATION D-2729 AND ASTM SPECIFICATION D-3034, AS APPLICABLE. SOLVENT JOINT CEMENT SHALL MEET THE REQUIREMENTS OF ASTM SPECIFICATION D-2564.
- MACHINE EXCAVATION SHALL BE TO A DEPTH OF 1/3 OF EACH PIPE. EACH SECTION OF PIPE SHALL BE INSPECTED FOR DEFECTS PRIOR TO BEING LOWERED INTO THE TRENCH.
- THE INSIDE OF EACH BELL AND THE OUTSIDE OF EACH SPIGOT SHALL BE THOROUGHLY CLEANED OF ALL MATTER OF EVERY DESCRIPTION PRIOR TO LOWERING PIPE INTO THE TRENCH AND PRIOR TO MAKING THE JOINT. ALL SEWER LINES SHALL BE CONSTRUCTED WITH THE SPIGOT ENDS POINTING IN THE DIRECTION OF FLOW. BOTH THE BELL AND THE SPIGOT OF EACH JOINT SHALL BE LUBRICATED WITH THE LUBRICANT ADHESIVE RECOMMENDED BY THE PIPE MANUFACTURER. ALL SEWER LINES SHALL BE CLEANED OF ALL FOREIGN MATTER AS CONSTRUCTION PROGRESSES, AND SHALL BE LEFT IN A CLEAN CONDITION UPON COMPLETION OF ALL CONSTRUCTION OPERATIONS.
- EACH SECTION OF THE COMPLETED SEWER SYSTEM SHALL BE INSPECTED FOR PROPER ALIGNMENT. ANY SECTION OF THE SEWER SYSTEM THAT DOES NOT DISPLAY TRUE, CONCENTRIC ALIGNMENT SHALL BE RE-LAID AT NO ADDITIONAL EXPENSE.
- 5. EACH SECTION OF THE COMPLETED SEWER MAIN SYSTEM SHALL BE TESTED FOR INFILTRATION. INFILTRATION SHALL NOT EXCEED 200 GALLONS PER INCH DIAMETER PER MILE OF SEWER PER 24 HOURS. UNSATISFACTORY SECTIONS SHALL BE REPAIRED OR REBUILT AS DIRECTED AT THE EXPENSE OF THE CONTRACTOR.
- FOLLOWING INSTALLATION AND TESTING, THE SEWER MAIN SHALL BE PRESSURE FLUSHED. FLUSHING CERTIFICATION AND RESULTS OF THE PRESSURE TESTS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO REQUEST FOR FINAL PAYMENT.



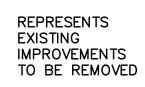
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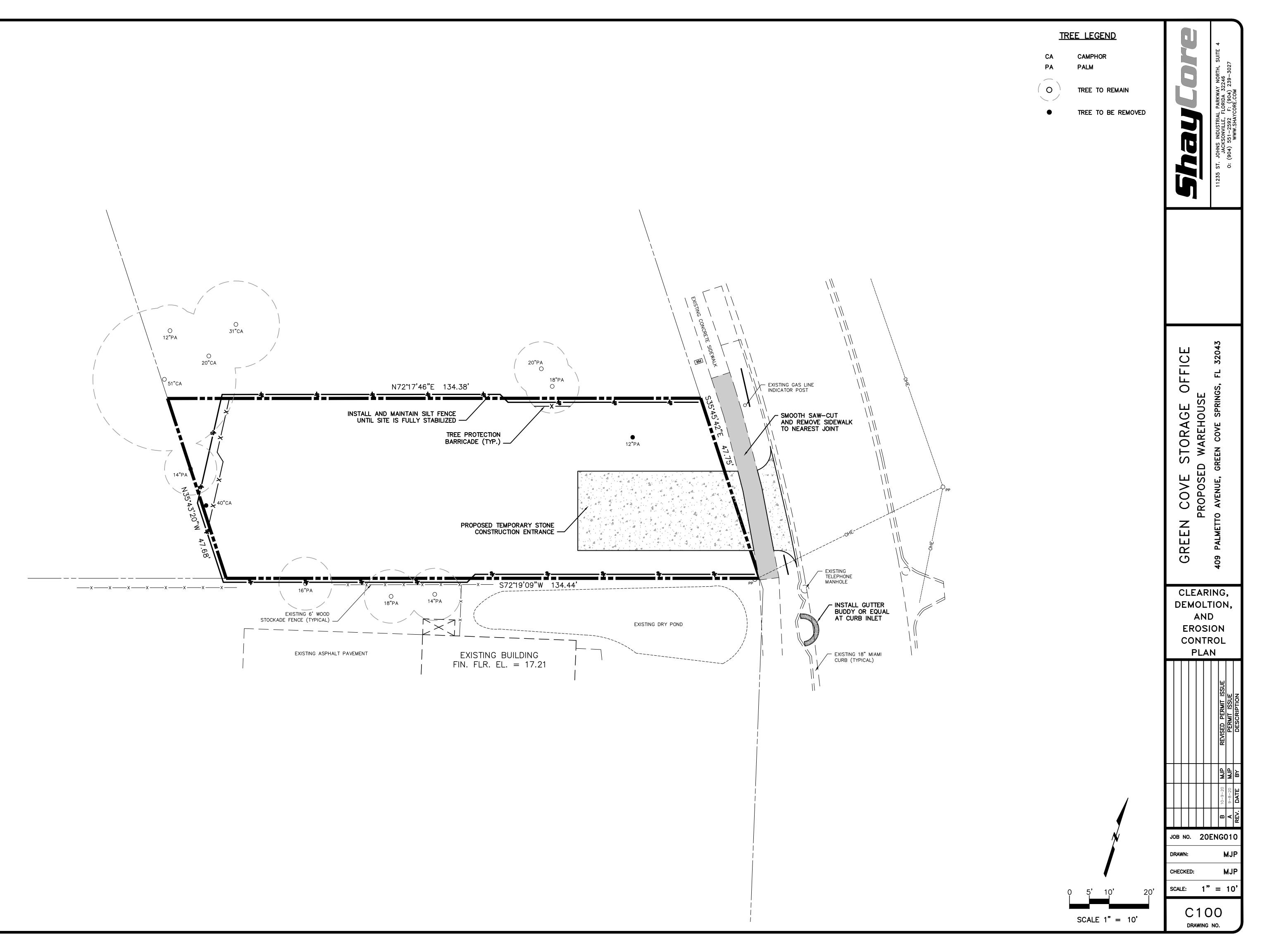
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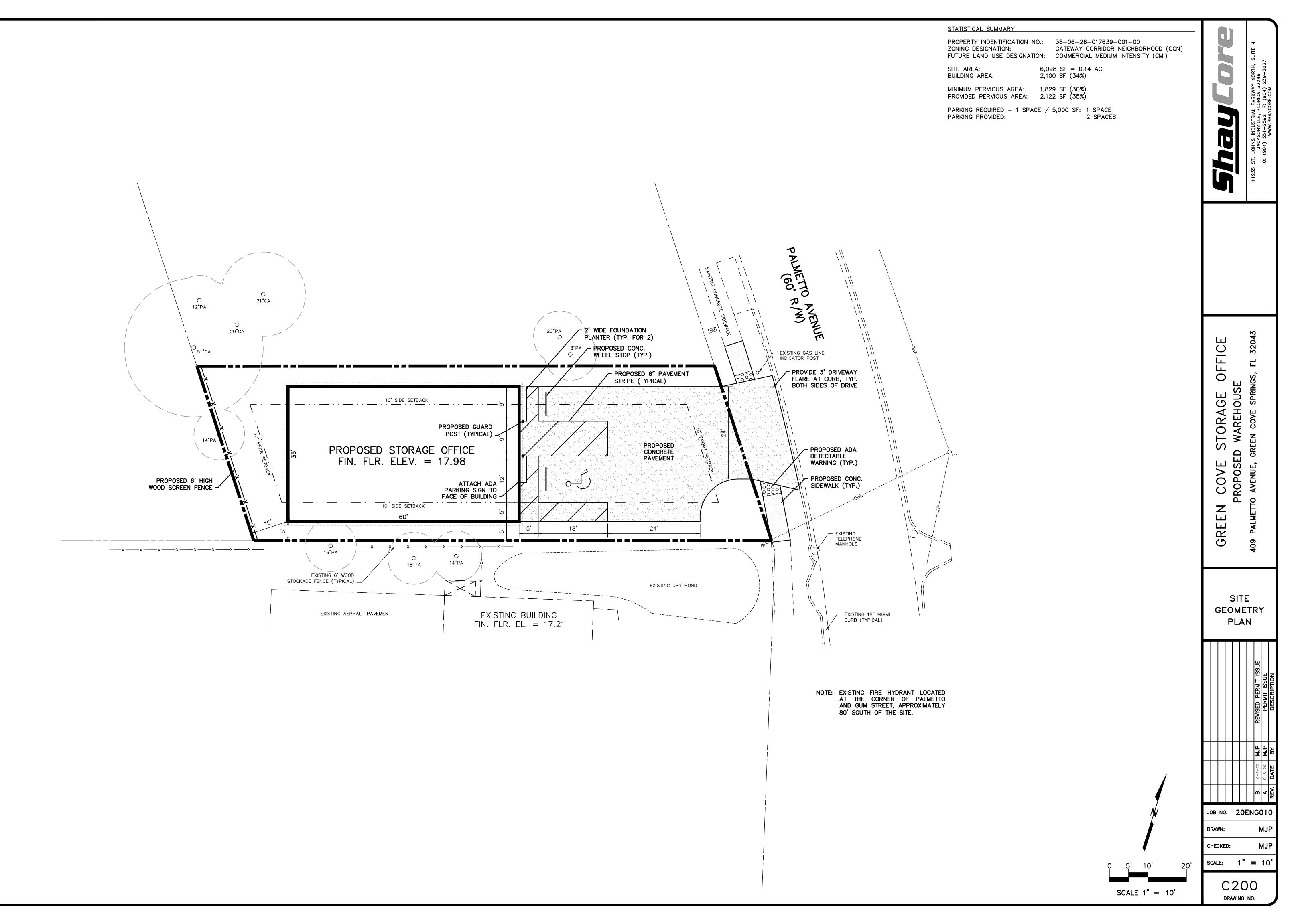
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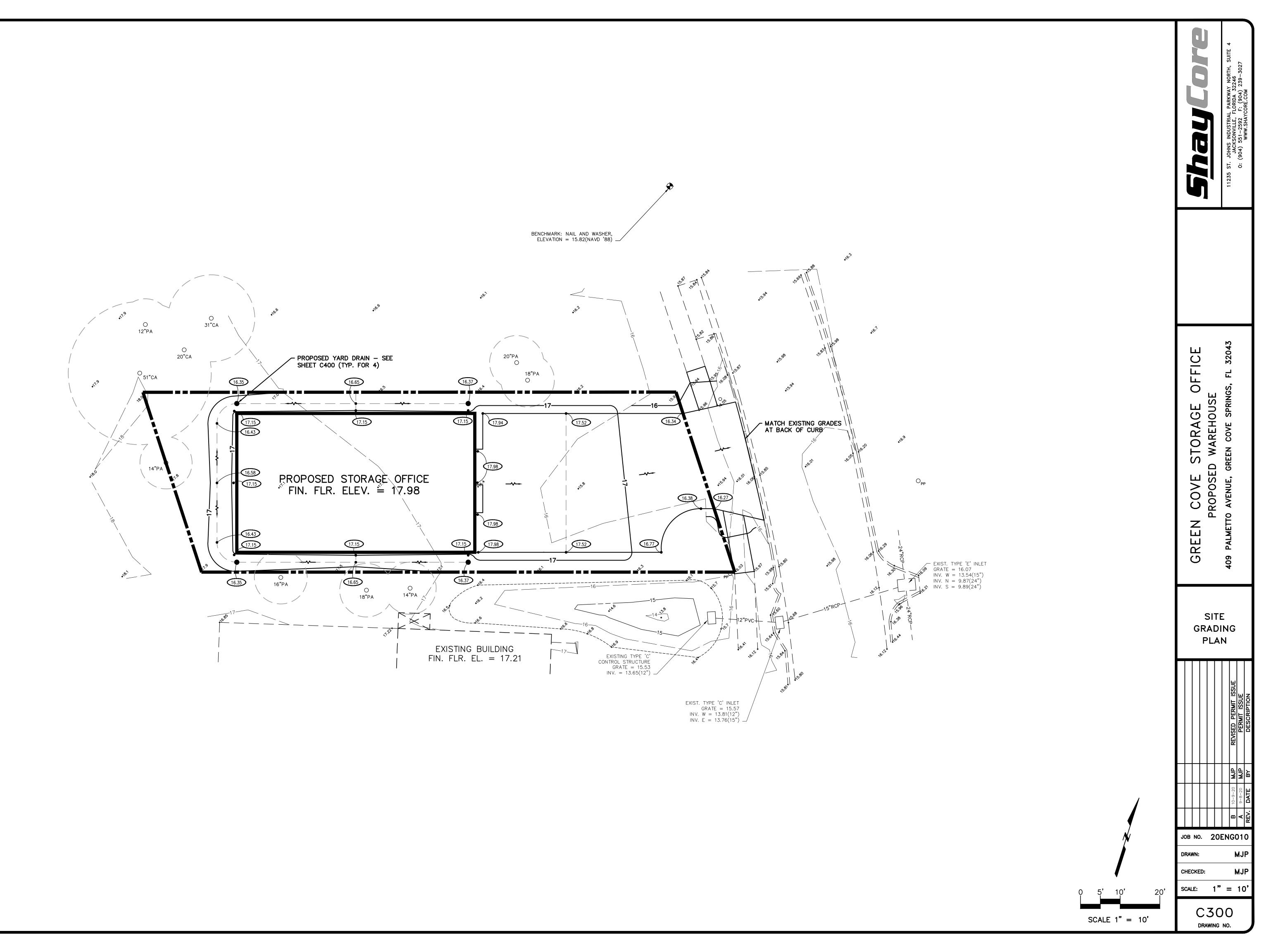
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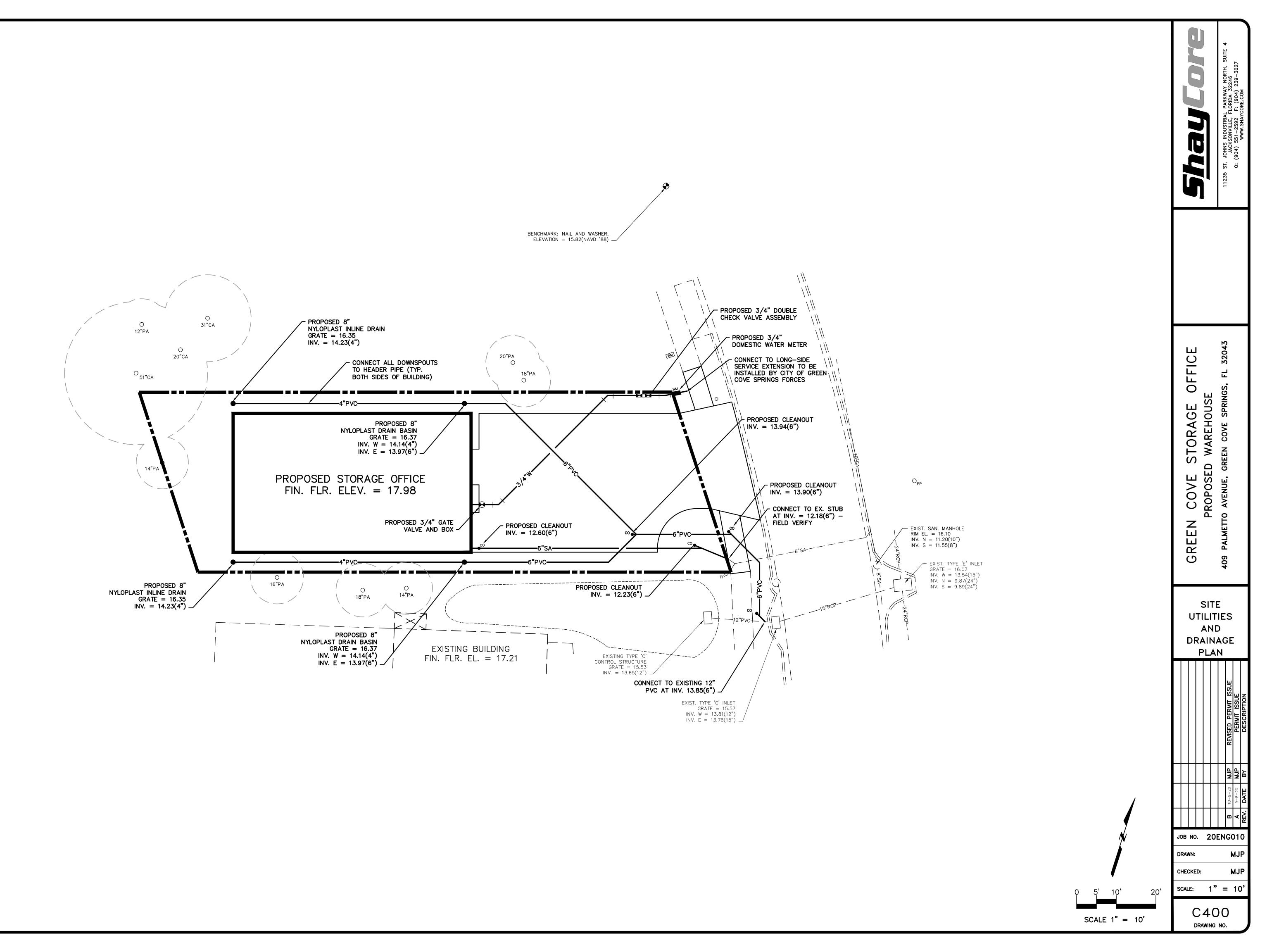
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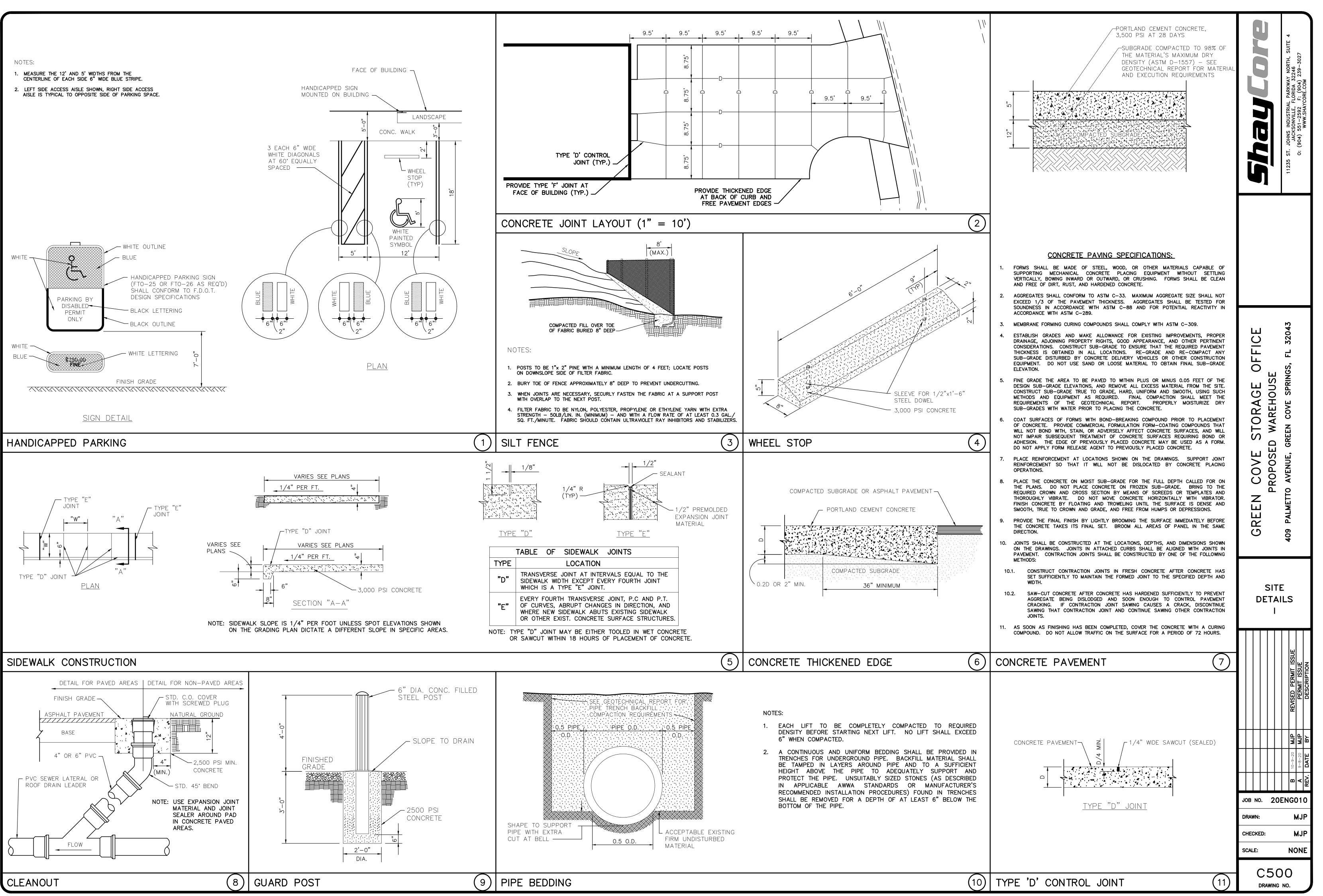


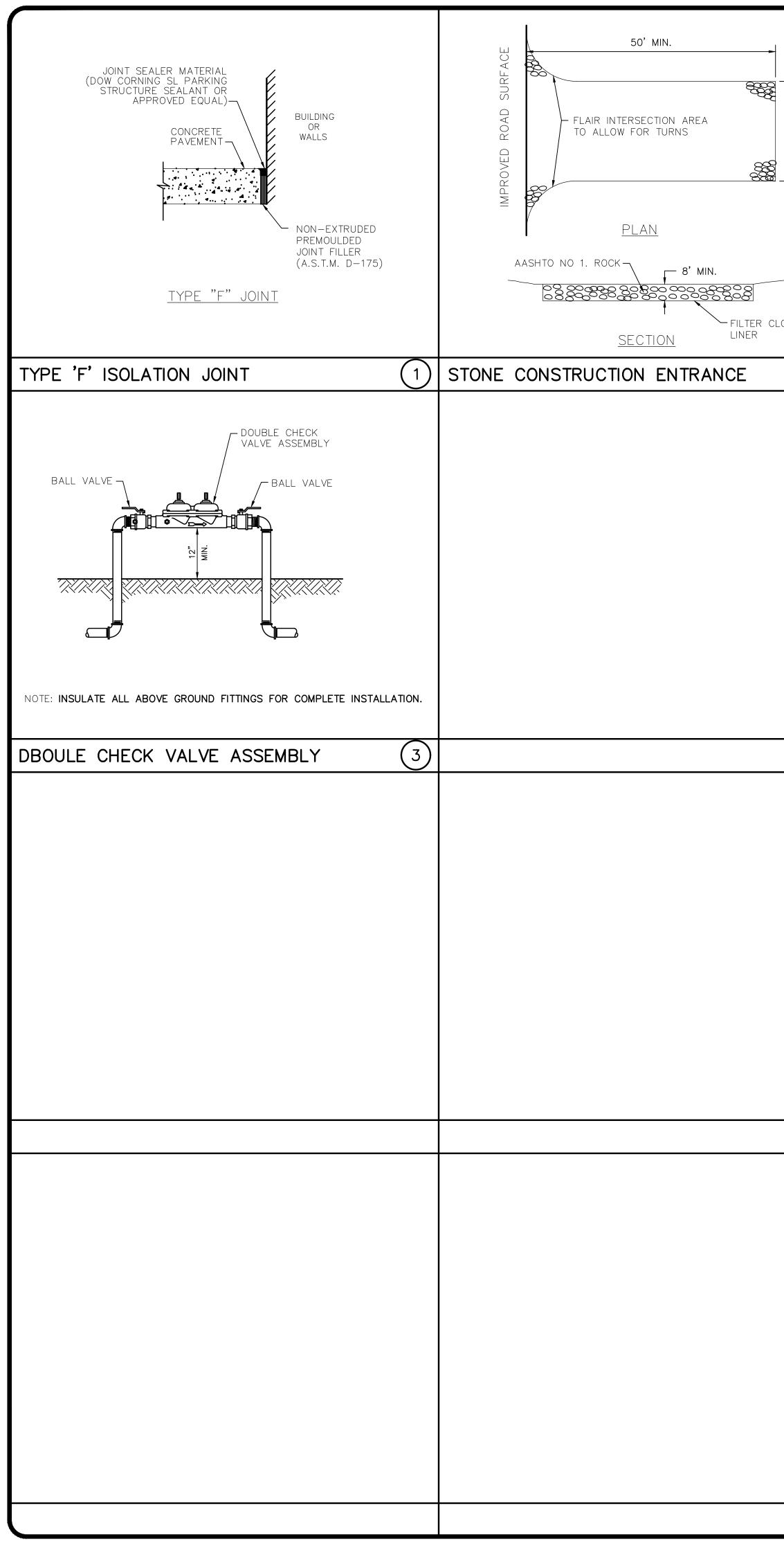




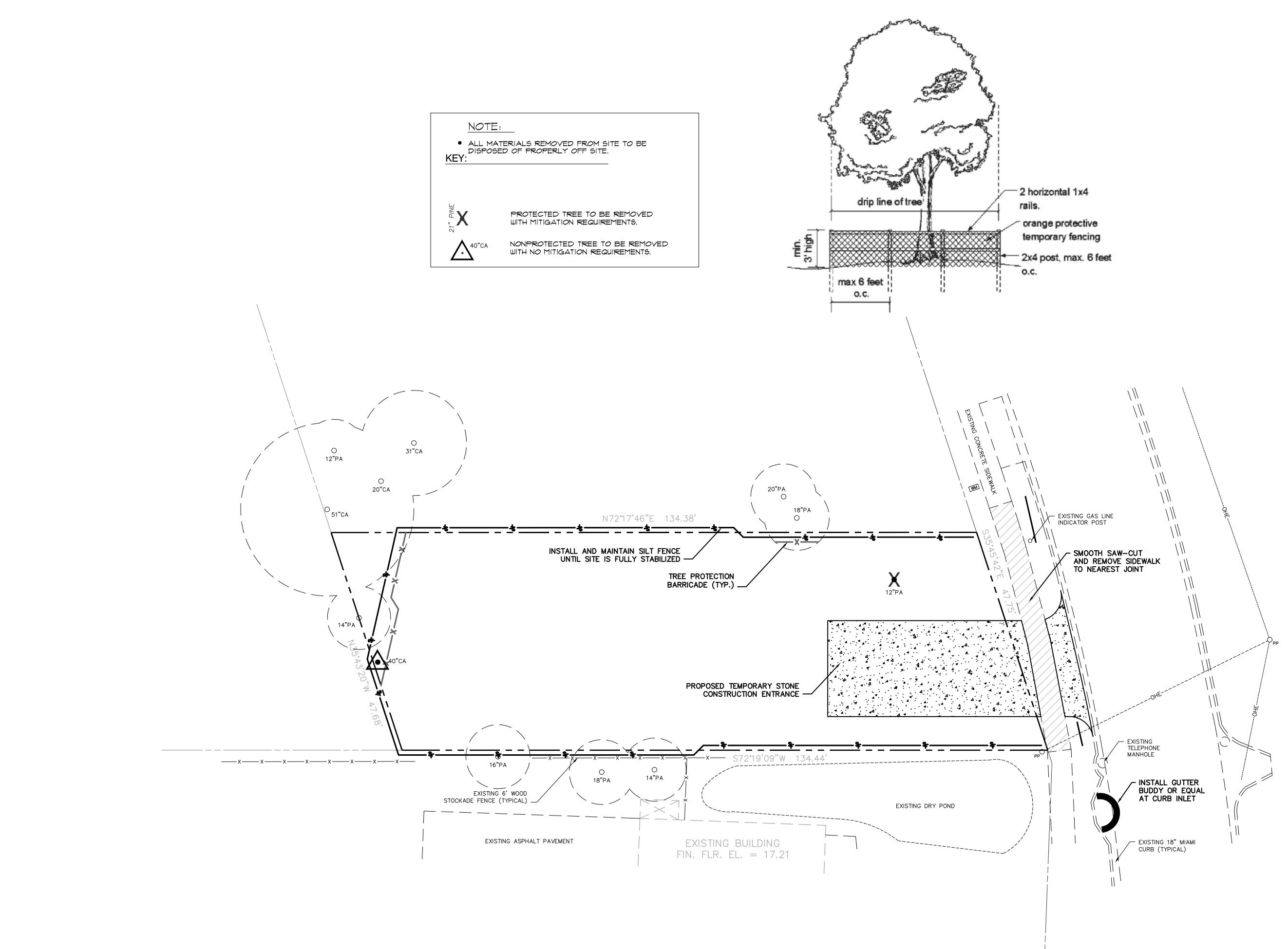


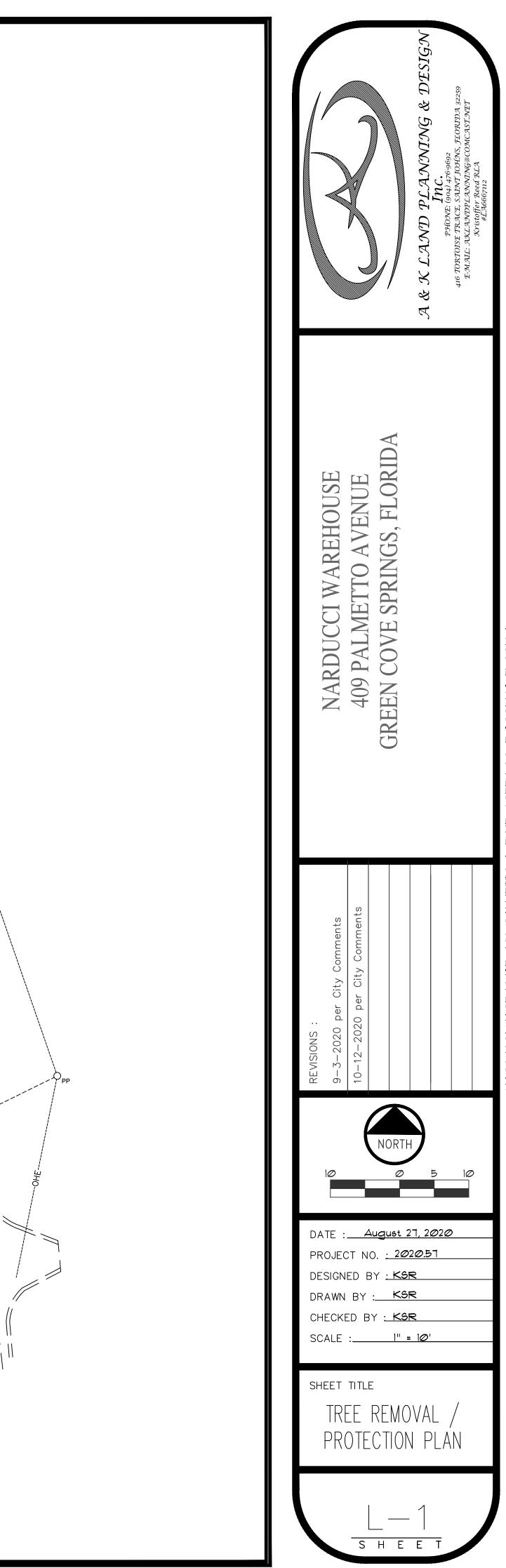


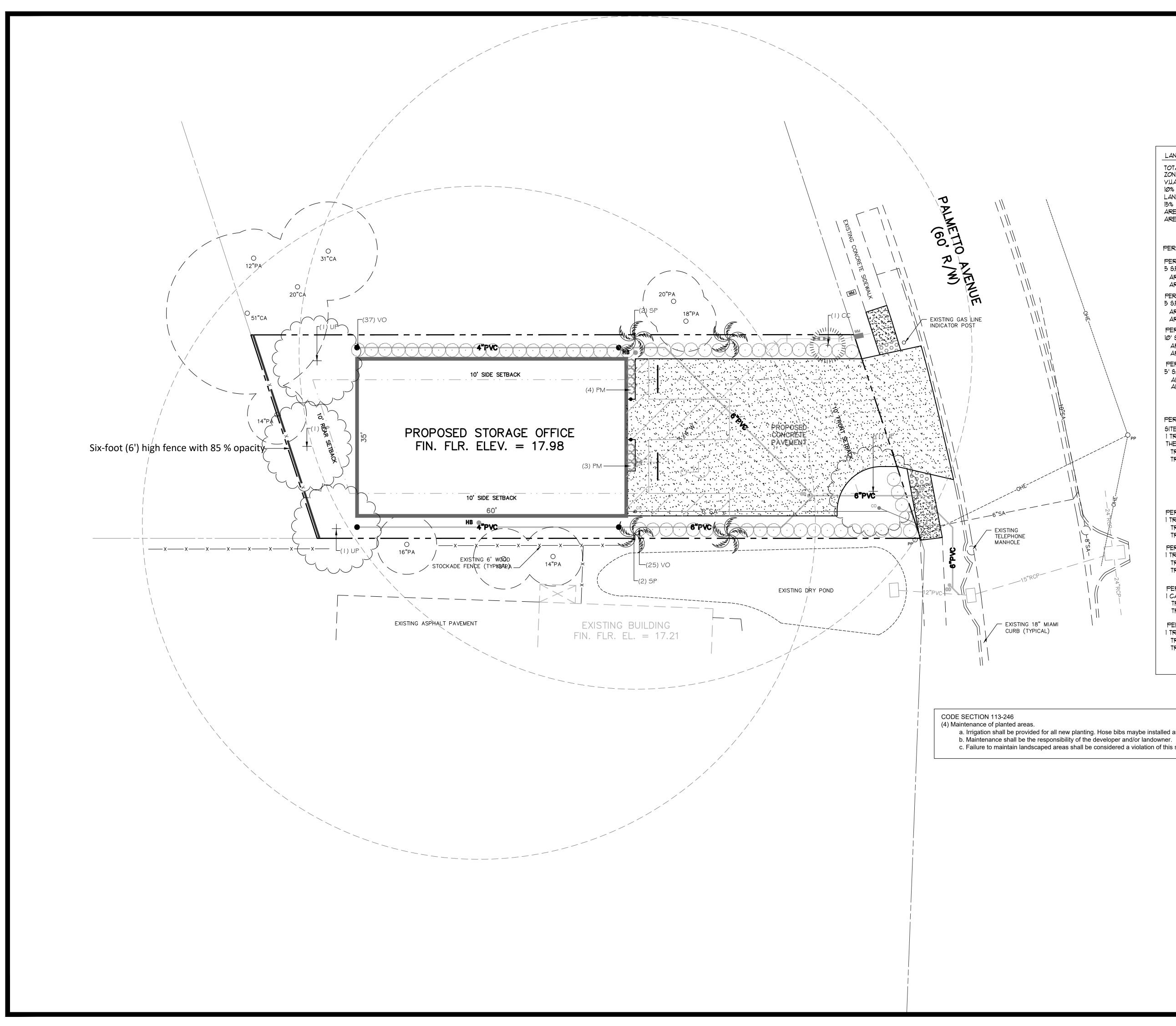




DF ROADWAY		<b>Solution of the second of the</b>
2		
		GREEN COVE STORAGE OFFICE PROPOSED WAREHOUSE 409 PALMETTO AVENUE, GREEN COVE SPRINGS, FL 32043
		SITE DETAILS II
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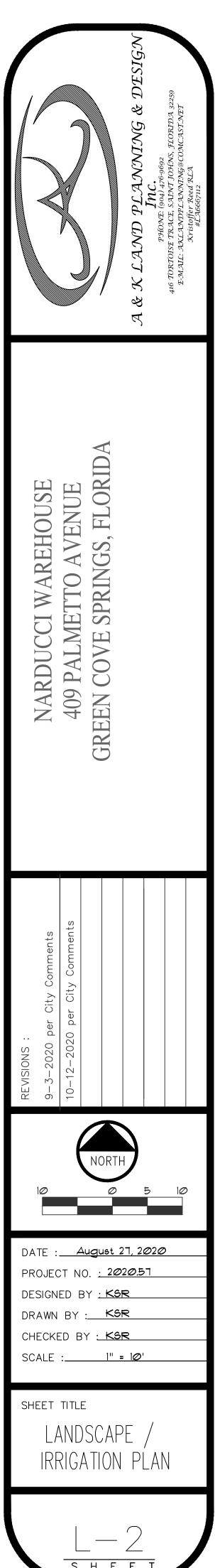






TOTAL AREAS:	
ZONING: V.U.A. PUBLIC AREA: 10% VUA REQ. LANDSCAPE AREA LANDSCAPE AREA PROVIDED: 15% TOTAL SITE LANDSCAPE AREA AREA REQUIRED: AREA PROVIDED:	6,091 S.F. Commercial 1,892 S.F. 189 S.F. 189 S.F. 915 S.F. 2,131 S.F.
PERIMETER AREA REQUIREMENT BREAKDON	JN
PERIMETER AREA NORTH SIDE:	134 L.F.
5 S.F. / L.F. = 5' × 134 L.F. AREA REQUIRED:	670 S.F.
AREA PROVIDED: PERIMETER AREA SOUTH SIDE:	670 S.F. 134 L.F.
5 SF. / LF. = 5' x 134 LF.	670 S.F.
AREA REQUIRED: AREA PROVIDED:	670 S.F.
PERIMETER AREA EAST SIDE: 10' S.F. / L.F. = 10' x 22.5 L.F.	22.5 L.F.
AREA REQUIRED: AREA PROVIDED:	225 S.F. 225 S.F.
PERIMETER AREA WEST SIDE:	48 L.F.
5' SF. / LF. = 5' x 48 LF. AREA REQUIRED: AREA PROVIDED:	24Ø S.F. 24Ø+ S.F.
PERIMETER AND INTERIOR TREE/SHRUB REG SITE AREA: 1 TREE / 1,500 S.F. FOR 1st 10,500 = 6,091 S THEN 1 TREE / 4,000 S.F. = 0 S.F. / 4,000 S	
TREES REQUIRED: TREES PROVIDED: (50% Understory)	
TREES REQUIRED:	F. 1 1
TREES REQUIRED: TREES PROVIDED: (50% Understory) PERIMETER TREES / SHRUBS NORTH SIDE: I TREE / 50 L.F. + 9 SHRUBS / 100 L.F. TREES / SHRUBS REQUIRED: TREES / SHRUBS PROVIDED: PERIMETER TREES / SHRUBS SOUTH SIDE:	F. 1 1 134 L.F. 3T + 136
TREES REQUIRED: TREES PROVIDED: (50% Understory) PERIMETER TREES / SHRUBS NORTH SIDE: I TREE / 50 L.F. + 9 SHRUBS / 100 L.F. TREES / SHRUBS REQUIRED: TREES / SHRUBS PROVIDED:	F. 1 134 L.F. 3T + 136 3T + 136
TREES REQUIRED: TREES PROVIDED: (50% Understory) PERIMETER TREES / SHRUBS NORTH SIDE: I TREE / 50 L.F. + 9 SHRUBS / 100 L.F. TREES / SHRUBS REQUIRED: TREES / SHRUBS PROVIDED: PERIMETER TREES / SHRUBS SOUTH SIDE: I TREE / 50 L.F. + 9 SHRUBS / 100 L.F. TREES / SHRUBS REQUIRED:	F. 1 1 1 1 1 1 1 1 1 1 1 1 1

a. Irrigation shall be provided for all new planting. Hose bibs maybe installed as an alternative, one hose bib within 75 feet of all landscaped areas. c. Failure to maintain landscaped areas shall be considered a violation of this subpart and subject to code enforcement.



#### General Notes and Specifications

- 1. Prior to construction the landscape contractor shall be responsible for locating all underground utilities and shall avoid damage to all utilities during the course of the work. The landscape contractor is responsible for repairing any and all damage to utilities, structures, site appurtenances, etc., which occurs as a result of the landscape construction.
- When conditions detrimental to plant growth are encountered, such as rubble fill, adverse drainage conditions or obstructions, notify owner's representative before planting.
- 3. All plants must be healthy, vigorous material, free of pests and disease. 4. All trees, palms, and shrubs shall be grade "Florida Fancy" per Grades and Standards For Nursery Plants (parts one and two), available through Florida Dept. of Agriculture and Consumer Services.
- 5. All plant material must be approved by the Landscape Architect before the plant material is installed.
- 6. Any changes to the plant material (size, type, etc..), irrigation or any other deviations from the plans must be approved by the Landscape Architect prior to the change being implemented by the contractor. The contractor
- must provide written proof of authorization for any changes. 7. All plants to be field grown or container grown as indicated on plant list. Store plants in shade and protect from weather. If plants cannot be planted immediately upon delivery, properly protect them with soil, wet peat moss, or, in a manner acceptable to owner's rep. Do not remove container grown stock from containers until planting time. Protect roots of plant from drying or other possible injury. Keep plant ball moist at all times. 8. All plants shall be triangular spaced.
- 9. Obtain agronomic soils test for all planting areas and tree pits prior to excavation of tree pits. Tests shall be performed by an approved soils testing laboratory and shall include fertility and suitability analysis with written recommendations for soil amendments, fertilizer and chemical conditioner application rates for soil preparation, planting backfill mix, and post maintenance fertilization program. Submit a copy of soils report to owner's rep. and landscape architect.
- 10. Add soil amendments as recommended by soil test in quantities necessary to bring soil mixture to pH rating of between 5.5 and 6.0. Minerals used for pH correction shall be commercially produced for this purpose.
- 11. All plants and planting areas must be completely mulched as specified with three (3) inches of organic mulch. Provide 4" minimum clearance of mulch from all shrub trunks and 6" minimum clearance from all tree trunks.
- 12. The landscape contractor is responsible for verifying all quantities shown on these plans, before pricing the work. 13. The planting shall be done in accordance with acceptable horticultural practices.
- This is to include proper planting mix, plant and tree pit preparation, pruning, staking or guying, wrapping, spraying, fertilization, planting, and adequate maintenance throughout the required maintenance period.
- 14. The landscape contractor is responsible for fully maintaining all planting (including but not limited to: pruning, watering, fertilizing, cultivating, weeding, mowing, mulching, tightening and repairing of guys, resetting plants to proper grade or upright position, restoration of plant saucer, and furnishing and applying such sprays as necessary to keep free of insects and diseases. The landscape contractor's responsibility for maintenance (exclusive of replacement within the guarantee period) shall terminate one year from the date of final acceptance by owner and landscape architect.
- 15. All trees, palms, shrubs and plant material shall be warranted for a period of one year after date of completion and acceptance of the entire project Final acceptance of all landscaping under this contract shall constitute the beginning of the guarantee period. Replace, in accordance with the drawings and specifications, all plants that are dead or, as determined by the owner's representative, are in an unhealthy or unsightly condition, and have lost their natural shape due to dead branches, or other causes due to the contractor's negligence. Furnish and plant replacements which comply with requirements shown and specified. Warrant all replacement plants for one year after installation. The cost of such replacement(s) is at the contractor's expense. 16. All plants are subject to approval by the owner's representative. Prior to planting,
- all trees and palms must be approved by the owner or owner's rep. 17. Standards set forth in "American Standard for Nursery Stock" represent guideline
- specifications only and shall constitute minimum quality requirements for plant material. 18. At the conclusion of this planting, if the owner's rep. or owner has reason to
- believe that the plants are not of the specified grade, he will request a re-grading or inspection, and such evidence will be the basis for requesting replacement of plants and for legal or other action according to law, should this become necessary.

LAWN AREA

SOIL AND ROOT LAYER -----

FINISHED GRADE

CULTIVATED SOIL

UNDISTURBED SOIL

NOTE:

SOD DETAIL

ROUGH GRADE

- 19. All planting beds to be treated with pre-emergent weed control prior to planting.
- 20. Contractor is to check the site weekly to insure all plant material is healthy and well watered.

TOPSOIL AS SPECIFIED -----

Ξ N N N

21. All disturbed areas to be sodded or seeded with Paspalum notatum as noted.

PLANT SCHEDULE				
TREES	QTY	COMMON / BOTANICAL NAME	SPACING	SPECIFICATIONS
00	1	Bottlebrush / Callistemon citrinus	AS SHOWN	10'-12'height x 5'-6' Spread minimum, 2.5" caliper
SP	4	Cabbage Palmetto / Sabal palmetto	AS SHOWN	10'-12' clear trunk, x 5'-6' Spread minimum
qu	4	Drake Elm / Ulmus parvifolia 'Drake'	AS SHOWN	10'-12'height x 5'-6' Spread minimum, 2.5" caliper
SHRUBS	QTY	COMMON / BOTANICAL NAME	SPACING	
PM	7	Podocarpus / Podocarpus macrophyllus	24" <i>o</i> .c.	36" ht. x 24" spd. minimum full ∉ dense
$\vee o$	62	Dwarf Walter's Viburnum / Viburnum obovatum 'Dwarf Walter's'	36" o.c.	36" ht. x 24" spd. minimum full \$ dense

# NOTES:

3. ALL PLANT MATERIAL TO BE FLORIDA NO. 1 QUALITY OR BETTER. 4. NO SUBSTITUTIONS WITHOUT PRIOR WRITTEN CONSENT OF THE LANDSCAPE ARCHITECT 6. CONTRACTOR TO VERIFY ALL QUANTITIES 7. CALIPER TO BE MEASURED AT D.B.H.

GUY WIRE 12 GA. ANNEALED GALV. STEEL

		TURNBUCKLE (GALV.) —
		MULCH (3" MIN. <del>)</del> EARTH SAUCER
PAVEMENT		2, - - -
	1/2" "EDGER" SMOOTH, CLEAN & PARALLEL TO PAVEMENT	6, MIN.
		GUY WIRE
		RUBBER HOSE-
		LIMIT OF MULCH-
E: INSTALL SOD SU SOIL & ROOT LA WITH TOP OF PA		A

1. MULCH ALL PLANTING BEDS WITH 3" ORGANIC MULCH

2. ALL DISTURBED AREAS NOT OTHERWISE LANDSCAPED SHALL BE SODDED WITH BAHIA SOD.

5. ALL TREES AND PLANTS SHALL MEET MINIMUM SPECIFIED SIZES IN INCHES AND FEET, REGARDLESS OF CONTAINER SIZE INDICATED. WHERE DIFFERRENCES OCCUR, THE LARGER SPECIFICATION SHALL PREVAIL

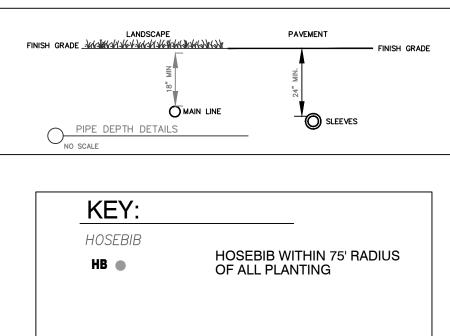
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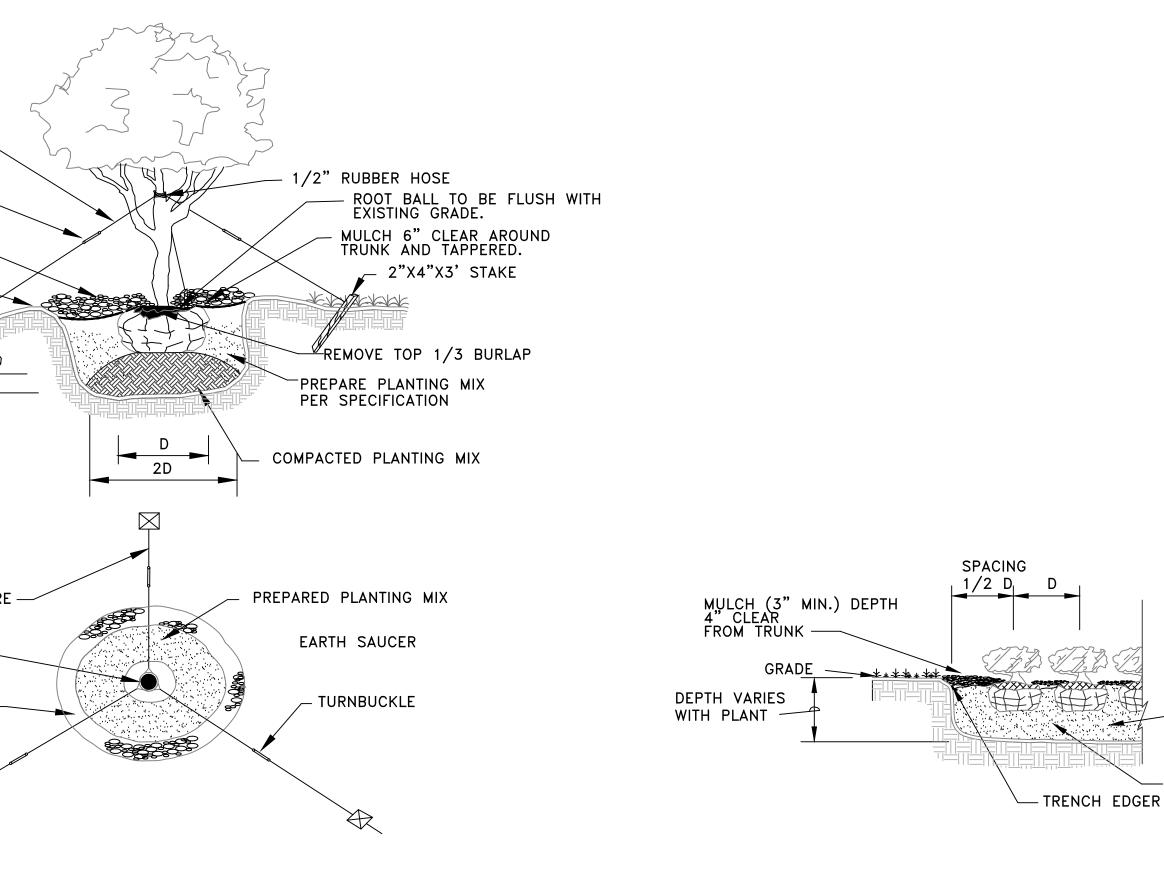
**ORDINANCE CHAPTER 366 SCHEDULE AND IRRIGATION REQUIREMENTS:** 

MARCH-NOVEMBER (DAYLIGHT SAVINGS TIME)

- NO WATERING FROM 10AM TO 4 PM ODD NUMBER ADDRESSES OR THOSE ENDING WITH N-Z OR NO ADDRESS MAY WATER ON WEDNESDAY AND SATURDAY
- EVEN NUMBER ADDRESSES OR THOSE ENDING -WITH A-M MAY WATER ON THURS, AND SUNDAY NON-RESIDENTIAL ADDRESSES MAY WATER
- ON TUESDAY AND FRIDAY APPLY UP TO  $\frac{3}{4}$  - INCH OR LESS OF WATER EACH CYCLE
- NOVEMBER MARCH (STANDARD TIME)
  - NO WATERING FROM 10 AM TO 4 PM ODD NUMBER ADDRESSES, OR THOSE ENDING WITH N-Z OR NO ADDRESS MAY WATER ON SATURDAY
  - EVEN NUMBER ADDRESSES OR THOSE ENDING WITH A-M MAY WATER ON SUNDAY NON-RESIDENTIAL ADDRESSES MAY WATER
- ON ONLY ON TUESDAY - APPLY UP TO  $\frac{3}{4}$  - INCH OR LESS OF WATER ONE TIME PER WEEK.

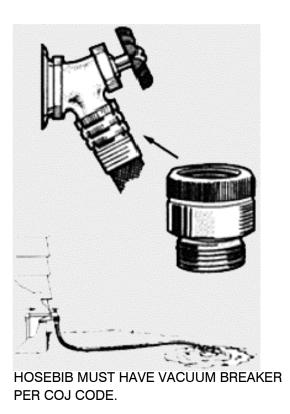


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TREE PLANTING DETAIL

SHRUB & GROUNDCOVER PLANTING DETAIL



PREPARE PLANTIN PER SPECIFICATIO	>

EXCAVATE AND PREPARE ENTIRE PLANTING BED