

GENERAL NOTES

1. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES TO PROTECT EXISTING UTILITIES WHETHER SHOWN OR NOT.

2. THE CONTRACTOR SHALL NOTIFY THE OWNER IN ADVANCE OF MAKING ANY CONNECTION TO AN ACTIVE PIPELINE OR UTILITY SYSTEM.

3. ALL EXISTING UTILITIES SHALL BE MAINTAINED IN SERVICE DURING CONSTRUCTION UNLESS APPROVED OTHERWISE IN WRITING BY THE UTILITY OWNERS.

4. ALL DEVIATIONS FROM PLANS ARE TO BE APPROVED IN WRITING PRIOR TO CONSTRUCTION AND FOR ALL INSPECTIONS AND TESTING.

5. THE OWNER/ENGINEER MUST BE GIVEN A MINIMUM 48 HOURS NOTICE FOR ALL INSPECTIONS UNLESS OTHERWISE AGREED UPON.

6. EXISTING SECTION CORNERS AND OTHER LAND MARKERS OR MONUMENTS LOCATED WITHIN PROPOSED CONSTRUCTION ARE TO BE MAINTAINED BY THE CONTRACTOR AND/OR RESET AFTER CONSTRUCTION UNDER CERTIFICATION BY A FLORIDA REGISTERED SURVEYOR.

7. THE EXISTING ELEVATIONS SHOWN HEREIN ARE FOR THE PURPOSE OF INDICATING THE GROUND ELEVATION ONLY AT THE POSITION SHOWN AND IN NO WAY SHOULD INDICATE ELEVATION AT ANY OTHER POINT OTHER THAN THAT SHOWN.

8. THE CONTRACTOR SHALL PROVIDE MAINTENANCE OF TRAFFIC (M.O.T.) FOR ANY WORK PERFORMED ON PUBLIC RIGHT-OF-WAY. CONTRACTOR SHALL COORDINATE WITH APPLICABLE AGENCIES (MIAMI-DADE COUNTY, COUNTY, VILLAGE OF PALMETTO BAY, ETC.) PRIOR TO ANY WORK REQUIRING MOT. CONTRACTOR IS REQUIRED TO PREPARE ANY REQUIRED M.O.T. PLANS AND RECEIVE REGULATORY APPROVAL/PERMITS AS REQUIRED.

9. THE WORDS 'NEW,' 'PROPOSED,' 'INSTALL,' 'PROVIDE,' OR WORDS WITH SIMILAR MEANING, ON ANY PART OF THESE CONSTRUCTION DOCUMENTS, SHALL BE INTERPRETED, UNLESS OTHERWISE SPECIFICALLY STATED, TO MEAN 'FURNISHING AND INSTALL COMPLETE IN PLACE AND READY FOR SERVICE'.

10. EXISTING GRADES WERE TAKEN FROM THE BEST AVAILABLE DATA AND MAY NOT ACCURATELY REFLECT PRESENT CONDITIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH CURRENT SITE CONDITIONS, AND SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO STARTING WORK.

11. IT IS THE INTENT OF THESE PLANS TO BE IN ACCORDANCE WITH APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION ON ANY DISCREPANCIES BETWEEN THESE PLANS AND APPLICABLE CODES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.

12. THE CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS FOR ALL ITEMS FOR REVIEW BY THE ENGINEER AND APPLICABLE REGULATORY AGENCIES/PARTIES. CONTRACTOR SHALL FURNISH A SHOP DRAWING LOG AND ANTICIPATED SUBMITTAL SCHEDULE PRIOR TO COMMENCEMENT OF CONSTRUCTION. SHOP DRAWINGS SHALL BE PROVIDED AS COMPLETE PACKAGES (STORMWATER/DRAINAGE, SIGNING AND STRIPING, PAVING, ETC.) AND SHALL HAVE BEEN REVIEWED AND STAMPED BY CONTRACTOR PRIOR TO SUBMITTAL TO THE ENGINEER. ENGINEER WILL CONDUCT UP TO TWO (2) SHOP DRAWING REVIEWS. ADDITIONAL REVIEWS MAY BE CONDUCTED AT THE CONTRACTOR'S EXPENSE.

13. ALL EXCAVATED MATERIAL REMOVED FROM THIS PROJECT SHALL BE DISPOSED OF PROPERLY BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.

14. ALL GRASS AREAS AFFECTED BY CONSTRUCTION SHALL BE RE-SODDED AND MATCH EXISTING ADJACENT SOD UNLESS OTHERWISE SPECIFIED.

15. TEMPORARY PATCH MATERIAL MUST BE ON THE JOB SITE WHENEVER PAVEMENT IS CUT, OR THE INSPECTOR MAY SHUT THE JOB DOWN.

16. CONTRACTOR SHALL NOTIFY LAW ENFORCEMENT AND FIRE PROTECTION SERVICES TWENTY-FOUR (24) HOURS IN ADVANCE OF DETOUR, AS APPLICABLE, IN ACCORDANCE WITH SECTION 336.048 OF FLORIDA STATUTES. CONTRACTOR SHALL ENSURE FIRE PROTECTION SERVICES ACCESS TO CONSTRUCTION FACILITIES AND ADJACENT BUILDINGS AS NECESSARY AT ALL TIMES.

17. COMPLETE AS-BUILT INFORMATION RELATIVE TO LOCATION AND DEPTH OF PIPES, MANHOLES, ETC. SHALL BE ACCURATELY RECORDED BY THE CONTRACTOR AND PROVIDED TO THE ENGINEER, OWNER, AND UTILITY PRIOR TO FINAL ACCEPTANCE OF THE WORK. AS-BUILT SURVEYS SHALL BE SIGNED AND SEALED BY A STATE OF FLORIDA LICENSED PROFESSIONAL SURVEYOR AND MAPPER. AS-BUILTS SHALL ADDITIONALLY BE PROVIDED IN CAD FORMAT UPON COMPLETION OF THE PROPOSED PROJECT.

18. EXISTING CONDITIONS PRESENTED ARE BASED ON A TOPOGRAPHIC SURVEY PERFORMED BY LONGITUDE SURVEYORS, LLC, PROJECT NO. 22056.0.01, DATED 04/27/2022. ADDITIONAL INFORMATION WAS OBTAINED FROM AS-BUILTS AND RECORD DRAWINGS PROVIDED BY UTILITY COMPANIES, G.I.S. INFORMATION AND FIELD VISITS.

19. GEOTECHNICAL INFORMATION USED FOR THIS PROJECT WAS TAKEN FROM A REPORT OF GEOTECHNICAL EXPLORATION BY PANGEEO CONSULTANTS, LLC, PROJECT NO. GM40322, DATED 03/28/2022.

APPLICABLE CODES

1. GENERAL

ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS, VILLAGE OF PALMETTO BAY PUBLIC WORKS, DEPARTMENT OF ENVIRONMENTAL PROTECTION, FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT), SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD), AND ALL OTHER LOCAL AND NATIONAL CODES WHERE APPLICABLE.

2. CONSTRUCTION SAFETY

ALL CONSTRUCTION SHALL BE PERFORMED IN A SAFE MANNER, SPECIFICALLY, THE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SHALL BE STRICTLY OBSERVED.

3. TRENCH SAFETY ACT

A. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLIANCE WITH THE STATE OF FLORIDA TRENCH SAFETY ACT.

B. WHERE EXCAVATIONS TO A DEPTH IN EXCESS OF FIVE FEET (5') ARE REQUIRED, THE CONTRACTOR SHALL INCLUDE THE FOLLOWING INFORMATION IN THE BID:

1) A REFERENCE TO THE TRENCH SAFETY STANDARDS THAT WILL BE IN EFFECT DURING THE PERIOD OF CONSTRUCTION OF THE PROJECT.

2) WRITTEN ASSURANCES BY THE CONTRACTOR PERFORMING THE TRENCH EXCAVATION THAT SUCH CONTRACTOR WILL COMPLY WITH THE APPLICABLE TRENCH SAFETY STANDARDS.

3) A SEPARATE ITEM IDENTIFYING THE COST OF COMPLIANCE WITH THE APPLICABLE TRENCH SAFETY STANDARDS.

C. WHEN A BID IS NOT SUBMITTED, THE CONTRACTOR SHALL SUBMIT THE INFORMATION LISTED IN ITEM 2 TO THE ENGINEER PRIOR TO STARTING WORK.

4. SURVEY DATA

A. ALL ELEVATIONS ON THE PLANS AND REFERENCED IN THE SPECIFICATIONS ARE BASED ON NAD 1929 DATUM. ALL HORIZONTAL LOCATIONS ARE BASED ON FLORIDA STATE PLAN COORDINATES, EAST ZONE, NAD 1983 WITH 2011 ADJUSTMENT (NAD 83/11).

PRECONSTRUCTION RESPONSIBILITIES

1. UPON RECEIPT OF NOTICE OF AWARD AND AFTER OBTAINING AN ENGINEERING CONSTRUCTION PERMIT FROM THE VILLAGE, THE CONTRACTOR SHALL ARRANGE A PRECONSTRUCTION CONFERENCE TO INCLUDE THE OWNER AND THE ENGINEER OF RECORD.

2. THE CONTRACTOR SHALL OBTAIN A 'SUNSHINE ONE CALL' CERTIFICATION NUMBER AND NOTIFY THE UTILITIES DEPARTMENT AT LEAST 48 HOURS PRIOR TO BEGINNING ANY EXCAVATION.

3. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE SIZE, LOCATION, ELEVATION, AND MATERIAL OF ALL EXISTING UTILITIES WITHIN THE AREA OF CONSTRUCTION.

4. EXISTING UTILITY LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF EXISTING UTILITIES SHOWN OR FOR ANY EXISTING UTILITIES NOT SHOWN.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ANY EXISTING UTILITIES FOR WHICH IT FAILS TO REQUEST LOCATIONS FROM THE UTILITY OWNER. THE CONTRACTOR IS RESPONSIBLE AS WELL FOR DAMAGE TO ANY EXISTING UTILITIES WHICH ARE PROPERLY LOCATED.

6. IF UPON EXCAVATION, AN EXISTING UTILITY IS FOUND TO BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION OR TO BE OF A SIZE OR MATERIAL DIFFERENT FROM THAT SHOWN ON THE PLANS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER.

INSPECTIONS/TESTING

1. THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE ENGINEER OF RECORD AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION AND PRIOR TO THE INSPECTION/TESTING OF THE FOLLOWING ITEMS:

A. STORM DRAINAGE

B. SUB-GRADE

C. LIMEROCK BASE

D. ASPHALTIC CONCRETE/PAVING

E. SUBSTANTIAL COMPLETION

F. FINAL COMPLETION

2. CONTRACTOR SHALL COORDINATE ALL REQUIRED INSPECTIONS WITH APPLICABLE REGULATORY AGENCIES AND OWNER AS NECESSARY. THE ENGINEER OF RECORD WILL PROVIDE PERIODIC SITE VISITS TO OBSERVE CONSTRUCTION.

3. THE ENGINEER OF RECORD SHALL BE PRESENT FOR ALL REQUIRED TESTING. PRIOR TO ANY FINAL TESTING, THE CONTRACTOR SHALL HAVE PERFORMED PRELIMINARY TESTING TO CONFIRM THE CONSTRUCTION HAS BEEN COMPLETED TO MEET THE TESTING REQUIREMENTS. ADDITIONAL TESTING REQUIRED FOR ANY FAILED TESTS TO BE WITNESSED BY THE ENGINEER OF RECORD MAY BE CONDUCTED AT THE CONTRACTOR'S EXPENSE.

SHOP DRAWINGS

1. PRIOR TO CONSTRUCTION COMMENCEMENT, THE CONTRACTOR SHALL PROVIDE THE ENGINEER OF RECORD A SHOP DRAWING LOG AND SUBMITTAL SCHEDULE FOR REVIEW. SHOP DRAWINGS SHALL BE PROVIDED IN APPLICABLE PACKAGES FOR THE COMPLETE INSTALLATION/CONSTRUCTION (STORMWATER, PAVING, ETC.).

2. PRIOR TO THEIR CONSTRUCTION OR INSTALLATION, SHOP DRAWINGS SHALL BE SUBMITTED TO AND REVIEWED BY THE ENGINEER OF RECORD FOR MANHOLES, CATCH BASINS, AND OTHER STRUCTURES AND ACCESSORIES. CATALOGUE LITERATURE SHALL BE SUBMITTED FOR PIPES, FITTINGS, APPURTENANCES, SOILS, AND MIX DESIGNS.

3. PRIOR TO SUBMITTING SHOP DRAWINGS TO THE ENGINEER, THE CONTRACTOR SHALL REVIEW AND APPROVE THE DRAWINGS, AND SHALL NOTE IN RED ANY DEVIATIONS FROM THE ENGINEER'S PLANS OR SPECIFICATIONS. ENGINEER WILL CONDUCT UP TO TWO (2) SHOP DRAWING REVIEWS. ADDITIONAL REVIEWS MAY BE CONDUCTED AT THE CONTRACTOR'S EXPENSE.

4. INDIVIDUAL SHOP DRAWINGS FOR ALL PRECAST STRUCTURES ARE REQUIRED. CATALOGUE LITERATURE WILL NOT BE ACCEPTED FOR PRECAST STRUCTURES.

TEMPORARY FACILITIES

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR OR SUPPLY TEMPORARY UTILITIES INCLUDING BUT NOT LIMITED TO TEMPORARY WATER SERVICE, SANITARY FACILITIES AND ELECTRICITY TO ITS EMPLOYEES AND SUBCONTRACTORS FOR THEIR USE DURING CONSTRUCTION.

2. TRAFFIC REGULATION

A. MAINTENANCE OF TRAFFIC IN THE PUBLIC RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE MUTCD AND THE AUTHORITY HAVING JURISDICTION (FDOT, MIAMI-DADE COUNTY, VILLAGE OF PALMETTO BAY, ETC.)

B. ALL OPEN TRENCHES AND HOLES ADJACENT TO ROADWAYS OR WALKWAYS SHALL BE PROPERLY MARKED AND BARRICADED TO ASSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC.

C. NO TRENCHES OR HOLES NEAR WALKWAYS OR IN ROADWAYS OR THEIR SHOULDERS ARE TO BE LEFT OPEN DURING NIGHTTIME HOURS WITHOUT EXPRESS PERMISSION OF THE OWNER.

D. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR MAINTENANCE OF TRAFFIC AND SAFETY OF THE PROJECT SITE DURING CONSTRUCTION UNTIL FINAL COMPLETION AND ACCEPTANCE.

PROJECT CLOSEOUT

1. CLEANING UP

A. DURING CONSTRUCTION, THE PROJECT SITE AND ALL ADJACENT AREAS SHALL BE MAINTAINED IN A NEAT AND CLEAN MANNER. UPON FINAL CLEAN UP, THE PROJECT SITE SHALL BE LEFT CLEAR OF ALL SURPLUS MATERIAL OR TRASH. THE PAVED AREAS SHALL BE SWEEP BROOM CLEAN.

B. THE CONTRACTOR SHALL RESTORE OR REPLACE, WHEN AND AS DIRECTED BY THE ENGINEER OR THE OWNER, ANY PUBLIC OR PRIVATE PROPERTY DAMAGED BY ITS WORK, EQUIPMENT, EMPLOYEES OR THOSE OF ITS SUBCONTRACTORS TO A CONDITION AT LEAST EQUAL OR BETTER TO THE EXISTING CONDITION IMMEDIATELY PRIOR TO THE BEGINNING OF OPERATIONS. TO THIS END, THE CONTRACTOR SHALL DO ALL NECESSARY HIGHWAY OR DRIVEWAY, WALK AND LANDSCAPING WORK IN A NEAT AND CAREFUL MANNER WHEN TYING INTO EXISTING/ADJACENT AREAS. SUITABLE MATERIALS AND METHODS SHALL BE USED FOR SUCH RESTORATION.

C. WHERE MATERIAL OR DEBRIS HAS WASHED OR FLOWED INTO OR BEEN PLACED IN WATER COURSES, DITCHES, DRAINS, CATCH BASINS, OR ELSEWHERE AS A RESULT OF THE CONTRACTOR'S OPERATIONS, SUCH MATERIAL OR DEBRIS SHALL BE REMOVED AND SATISFACTORILY DISPOSED OF DURING PROGRESS OF THE WORK, AND THE AREA KEPT IN A CLEAN AND NEAT CONDITION.

2. PROJECT RECORD DOCUMENTS

A. THE CONTRACTOR SHALL MAINTAIN ACCURATE AND COMPLETE RECORDS OF WORK ITEMS COMPLETED.

B. ALL REQUIRED DENSITY AND LBR TEST RESULTS FOR SUB-GRADE SHALL BE PROVIDED TO THE ENGINEER PRIOR TO PLACING LIMEROCK BASE MATERIAL.

C. ALL REQUIRED DENSITY AND LBR TEST RESULTS FOR LIMEROCK SHALL BE PROVIDED TO THE ENGINEER PRIOR TO PLACING ASPHALT/PAVING.

D. ALL "AS-BUILT" INFORMATION SUBMITTED TO THE ENGINEER SHALL BE SUFFICIENTLY ACCURATE, CLEAR AND LEGIBLE TO SATISFY THE ENGINEER THAT THE INFORMATION PROVIDES A TRUE REPRESENTATION OF THE IMPROVEMENTS CONSTRUCTED.

E. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD COMPLETE SETS OF "AS-BUILT" CONSTRUCTION DRAWINGS AS REQUIRED FOR SUBMITTAL AND APPROVAL. THESE DRAWINGS SHALL BE MARKED TO SHOW "AS-BUILT" CONSTRUCTION CHANGES AND DIMENSIONED LOCATIONS AND ELEVATIONS OF ALL IMPROVEMENTS AND SHALL BE SIGNED AND SEALED BY A FLORIDA REGISTERED LAND SURVEYOR.

F. ALL "AS-BUILT" INFORMATION ON ELEVATIONS OF PAVING AND DRAINAGE SHALL BE CERTIFIED BY A FLORIDA REGISTERED LAND SURVEYOR.

DEMOLITION NOTES

1. DRAIN, PURGE, OR OTHERWISE REMOVE, COLLECT, AND DISPOSE OF CHEMICALS, GASES, EXPLOSIVES, ACIDS, FLAMMABLES, OR OTHER DANGEROUS MATERIALS BEFORE PROCEEDING WITH DEMOLITION OPERATIONS.

2. CONDUCT DEMOLITION OPERATIONS AND REMOVE DEBRIS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED AND USED FACILITIES. CONTRACTOR SHALL PREPARE AND COORDINATE WITH THE OWNER A CONSTRUCTION PHASING PLAN TO MINIMIZE IMPACT TO ADJACENT FACILITIES AND BUILDINGS PRIOR TO ANY DEMOLITION WORK.

3. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER ADJACENT OCCUPIED OR IN-USE FACILITIES WITHOUT PERMISSION FROM OWNER, THE CITY AND AUTHORITIES HAVING JURISDICTION. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS AS REQUIRED BY GOVERNING REGULATIONS.

4. CONDUCT DEMOLITION OPERATIONS TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDINGS AND FACILITIES TO REMAIN. ENSURE SAFE PASSAGE OF PEOPLE AROUND DEMOLITION AREA.

5. ERECT TEMPORARY PROTECTION, SUCH AS WALKS, FENCES, BARRIERS, RAILINGS, ETC. WHERE REQUIRED BY AUTHORITIES HAVING JURISDICTION.

6. PROTECT EXISTING SITE IMPROVEMENTS, APPURTENANCES, AND LANDSCAPING TO REMAIN.

7. ADJACENT IMPROVEMENTS SHALL BE CLEANED OF DUST, DIRT, AND DEBRIS CAUSED BY DEMOLITION OPERATIONS. ADJACENT AREAS SHALL BE REQUIRED TO BE RETURNED TO CONDITION EXISTING BEFORE START OF DEMOLITION AT NO ADDITIONAL COSTS.

8. FOR SELECTIVE DEMOLITION, USE CUTTING METHODS LEAST LIKELY TO DAMAGE CONSTRUCTION TO REMAIN OR ADJOINING CONSTRUCTION. TO MINIMIZE DISTURBANCE OF ADJACENT SURFACES, USE HAND OR SMALL POWER TOOLS DESIGNED FOR SAWING OR GRINDING, NOT HAMMERING OR CHOPPING. TEMPORARILY COVER OPENINGS TO REMAIN.

9. DEMOLISH CONCRETE IN SMALL SECTIONS. CUT CONCRETE AT JUNCTURES WITH CONSTRUCTION TO REMAIN, USING POWER-DRIVEN MASCONRY SAW OR HAND TOOLS. DO NOT USE POWER-DRIVEN IMPACT TOOLS.

10. INFORMATION SHOWN ON THE DRAWINGS AS TO THE LOCATION OF EXISTING UTILITIES HAS BEEN PREPARED FROM THE MOST RELIABLE DATA AVAILABLE TO THE ENGINEER. HOWEVER, THIS INFORMATION IS NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE LOCATION, CHARACTER, AND DEPTH OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL ASSIST THE UTILITY COMPANIES, BY EVERY MEANS POSSIBLE, TO DETERMINE SAE LOCATIONS AND THE LOCATIONS OF RECENT ADDITIONS TO THE SYSTEMS NOT SHOWN.

11. REMOVAL, DEMOLITION, HAULING, AND DISPOSAL SHALL COMPLY WITH REGULATIONS BY F.D.E.P., E.P.A., AND ANY OTHER AUTHORITY HAVING JURISDICTION.

12. ALL EXISTING UTILITY MANHOLE COVERS, ELECTRICAL BOXES, METER BOXES, METERS, DRAINAGE STRUCTURES, ETC. WITHIN PROPOSED AREAS OF IMPROVEMENTS SHALL BE ADJUSTED TO FINISHED GRADE ELEVATION, UNLESS OTHERWISE NOTED.

13. ALL EXISTING STREET LIGHTING WILL REMAIN IN PLACE AND REMAIN IN SERVICE DURING CONSTRUCTION OPERATIONS. CONTRACTOR SHALL USE CARE TO ENSURE EXISTING CONDUIT, PULLBOXES, AND CONTROL ARE NOT DAMAGED DURING DEMOLITION OPERATIONS.

EARTHWORK

1. THE CONTRACTOR'S BID FOR EARTHWORK SHALL INCLUDE THE EXCAVATION, REMOVAL AND DISPOSAL OF ALL MATERIALS, OF WHATEVER CHARACTER, WITHIN THE LIMITS OF CONSTRUCTION.

2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE UNSUITABLE MATERIAL PRESENT ON-SITE AND INCLUDE THE REMOVAL AND REPLACEMENT OF SAME IN HIS BID PRICE.

3. THE CONTRACTOR SHALL MAKE HIS OWN ESTIMATE ON THE VOLUME OF MATERIAL ACTUALLY REQUIRED TO OBTAIN THE CROSS SECTIONS OR GRADES AS SHOWN ON THE PLANS.

4. THE CONTRACTOR SHALL REMOVE ALL MUCK, YIELDING MATERIAL ROOTS, VEGETATION AND OTHER DEGRADABLE MATERIAL IN ITS ENTIRETY, WITHIN THE PAVEMENT UNITS AND BELOW ALL STRUCTURES AND UTILITIES TO FULL EXCAVATED TRENCH WIDTH. SAID MATERIAL SHALL BE REPLACED WITH CLEAN ORGANIC FREE MATERIAL WITH ROCKS SMALLER THAN ONE INCH IN DIAMETER COMPACTED TO NOT LESS THAN 98% MAXIMUM DENSITY AT OPTIMUM MOISTURE. AASHTO T-180 METHOD "D" WITH MAXIMUM LIFTS OF TWELVE INCHES COMPACTED THICKNESS.

5. TRENCH BACKFILL AND COMPACTION SHALL FOLLOW THE PROJECT GENERAL NOTES AND DETAILS.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING APPROPRIATE SAFETY PRECAUTIONS DURING EXCAVATION AND TRENCHING OPERATIONS AS REQUIRED BY THE "TRENCH SAFETY ACT".

7. THIS WORK SHALL INCLUDE THE EXCAVATION OF WHATEVER SUBSTANCES THAT SHALL BE ENCOUNTERED TO THE DEPTHS AS SHOWN ON THE PLANS. EXCAVATED MATERIALS NOT REQUIRED FOR FILL OR BACKFILL SHALL BE REMOVED FROM THE WORK SITE AS DIRECTED BY THE ENGINEER AND SHALL BE CONSIDERED TO BE PART OF THE BID PRICE OF THE UTILITY PIPE FOR WHICH EXCAVATION AND BACKFILL IS REQUIRED.

8. WATER SHALL NOT BE PERMITTED TO ACCUMULATE IN THE EXCAVATED AREA. IT SHALL BE REMOVED BY PUMPING OR OTHER MEANS AS APPROVED BY THE ENGINEER. THE REMOVAL OF WATER SHALL BE CONSIDERED TO BE A PART OF THE BID PRICE OF THE UTILITY PIPE FOR WHICH EXCAVATION AND BACKFILL IS REQUIRED. CONTRACTOR TO OBTAIN DEWATERING PERMITS FROM APPLICABLE JURISDICTIONAL AGENCIES (MIAMI-DADE COUNTY DERM, SFWMD, ETC.) IF REQUIRED.

9. IF THE BOTTOM OF THE TRENCH IS ROCK, THE EXCAVATION SHALL BE CARRIED EIGHT INCHES BELOW THE INVERT OF THE PIPE AND BACKFILLED WITH THOROUGHLY COMPACTED SAND, GRAVEL, OR OTHER SUITABLE MATERIAL APPROVED BY THE ENGINEER.

10. ROCK EXCAVATION SHALL INCLUDE ANY ROCK ENCOUNTERED WHICH CANNOT BE REMOVED WITH A 3/4 YARD BACK SHOVEL UNDER NORMAL OPERATING CONDITIONS. ROCK EXCAVATION SHALL BE INCIDENTAL TO CONSTRUCTION OF ALL PIPING SYSTEMS AND NO SEPARATE PAYMENT WILL BE MADE.

11. WHENEVER IT IS NECESSARY, IN THE INTEREST OF SAFETY, CONTRACTOR TO BRACE OR SHORE THE SIDES OF THE TRENCH, SUCH BRACING OR SHORING SHALL BE CONSIDERED TO BE PART OF THE BID PRICE OF UTILITY PIPE FOR WHICH EXCAVATION AND BACKFILL IS REQUIRED.

12. THE CONTRACTOR SHALL FURNISH, PUT IN PLACE AND MAINTAIN SUCH SHEETING, BRACING, AS MAY BE REQUIRED TO SUPPORT THE SIDE OF THE EXCAVATION, AND TO PREVENT ANY MOVEMENT WHICH CAN IN ANY WAY DAMAGE THE WORK OR ENDANGER ADJACENT STRUCTURES.

13. IF FIELD CONDITIONS, TYPE OF SHEETING OR CONSTRUCTION METHODS MAKE REMOVAL OF SHEETING IMPRACTICABLE, AT NO ADDITIONAL COST TO THE OWNER, THE CONTRACTOR MAY LEAVE THE SHEETING IN PLACE. THE ENGINEER MAY REQUIRE SHEETING TO BE CUT OFF AT ANY SPECIFIED ELEVATION BUT IN NO CASE WILL ANY SHEETING BE LEFT CLOSER THAN TWO (2) FEET BELOW THE NATURAL SURFACE, NOR CUT OFF BELOW THE ELEVATION OF THE TOP OF THE PIPE.

14. AFTER PIPES, STRUCTURES, AND OTHER APPURTENANCES HAVE BEEN INSTALLED, THE TRENCH OR OPENING SHALL BE BACKFILLED WITH MATERIAL IN CONFORMANCE WITH THE PROJECT GENERAL NOTES AND DETAILS.

15. IN AREAS WHERE NO PAVEMENT IS TO BE CONSTRUCTED, THE BACKFILL ABOVE THE TWELVE INCH LINE ABOVE THE PIPE SHALL BE COMPACTED TO A FIRMNESS APPROXIMATELY EQUAL TO THAT OF THE SOIL ADJACENT TO THE PIPE TRENCH.

16. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING REQUIRED SAFETY BARRIER AND PROTECTIVE STEEL PLATE COVERINGS FOR OPEN TRENCHES.

17. SUBSURFACE EXPLORATION INFORMATION PROVIDED IS FOR THE CONTRACTOR'S INFORMATION. THE ENGINEER DOES NOT MAKE ANY REPRESENTATION REGARDING EXISTING SUBSOIL CONDITIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PERFORM ADDITIONAL SOIL BORINGS TO VERIFY THE LIMITS OF UNSUITABLE MATERIAL ON-SITE.

STORM DRAINAGE

1. HIGH DENSITY POLYETHYLENE PIPE AND FITTINGS FOR STORM SEWERS SHALL MEET THE REQUIREMENTS OF ASTM D3508 CELL CLASSIFICATION 324420C, OR ASTM D248 TYPE II, CLASS C, CATEGORY 4, GRADE P33.

2. HDPE PIPE SHALL HAVE A SMOOTH INTERIOR AND ANNULAR CORRUGATED EXTERIOR.

3. BEDDING AND INITIAL BACKFILL OVER DRAINAGE PIPE SHALL BE SAND WITH NO ROCK LARGER THAN 1" DIAMETER.

4. BACKFILL MATERIAL UNDER PAVED AREAS SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.

5. BACKFILL MATERIAL UNDER AREAS NOT TO BE PAVED SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.

6. DRAINAGE STRUCTURES TO BE CLEANED PRIOR TO OWNER ACCEPTANCE.

7. LIFT HOLES THROUGH PRECAST STRUCTURES ARE NOT PERMITTED.

8. ALL CEMENT USED ON DRAINAGE STRUCTURES SHALL BE A TYPE II PORTLAND CEMENT, CONFORMING TO ASTM SPECIFICATION C-150 AASHTO DESIGNATION M-55.

9. UNLESS OTHERWISE SPECIFIED ON THE PLANS, STRUCTURES SHALL BE PRECAST CONCRETE SECTIONS.

10. MORTAR FOR USE IN CONSTRUCTION AND PLASTERING STRUCTURES SHALL CONFORM TO ASTM C-270 SPECIFICATIONS FOR MORTAR FOR UNIT MASCONRY. A PORTLAND CEMENT HYDRATED LIME MIXTURE OR A MASCONRY CEMENT MAY BE USED PROVIDED THAT THE SAME MATERIALS ARE USED THROUGHOUT THE PROJECT.

11. MORTAR MATERIALS SHALL BE PROPORTIONED BY VOLUME AND SHALL CONSIST OF ONE PART TYPE II PORTLAND CEMENT TO TWO PARTS AGGREGATE (SAND), PORTLAND CEMENT SHALL CONFORM TO ASTM C-150, "SPECIFICATIONS FOR PORTLAND CEMENT", AGGREGATE SHALL CONFORM TO ASTM C-144 "SPECIFICATIONS FOR AGGREGATE FOR MASCONRY UNITS".

12. PRECAST MANHOLE SECTIONS SHALL CONFORM TO ASTM C-478, SPECIFICATIONS FOR PRECAST REINFORCED CONCRETE MANHOLE SECTIONS AS MODIFIED THERETO. CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS. MINIMUM WALL THICKNESS SHALL BE 8 INCHES AND MINIMUM INSIDE DIAMETER SHALL BE 48 INCHES. THE INSIDE OF ALL STRUCTURES SHALL BEAR THE APPROVAL OF A CERTIFIED TESTING LABORATORY WHEN DELIVERED TO THE JOB SITE.

13. ALL PIPE SHALL BE CAREFULLY LAID, TRUE TO THE LINES AND GRADES GIVEN, ANY PIPE THAT IS NOT IN TRUE ALIGNMENT OR WHICH SHOWS ANY SETTLEMENT AFTER INSTALLATION SHALL BE RE-INSTALLED AT NO ADDITIONAL COST TO OWNER.

14. THE BASE AND WALLS THAT COMPOSE THE BOTTOM SECTION OF THE PRECAST STRUCTURES SHALL BE OF MONOLITHIC CONSTRUCTION, 8 INCHES THICK AND THE EDGE OF THE BASE SLAB SHALL PROJECT A MINIMUM 1 INCHES BEYOND THE OUTSIDE DIAMETER OF THE WALL.

15. HOLES FOR PIPING SHALL BE MIN. 6 INCHES LARGER THAN THE OUTSIDE DIAMETER OF THE RESPECTIVE PIPES. AFTER THE PIPE IS SET, THE VOID SPACE BETWEEN THE PIPE AND THE HOLE PERIMETER SHALL BE COMPLETELY FILLED WITH NON-SHRINKING, QUICK-SETTING, WATERPROOF CEMENT MORTAR AND STRUCK SMOOTH.

16. THE MINIMUM HEIGHT OF PRECAST BASE SECTION SHALL BE 36 INCHES FROM THE BOTTOM OF THE BASE SLAB; HOWEVER, NO HOLES FOR PIPING SHALL BE CAST LESS THAN 8 INCHES FROM THE TOP OF THE BASE SECTION OR LESS THAN 2 INCHES ABOVE THE TOP OF THE BASE SLAB.

17. THE CONTRACTOR SHALL FURNISH THE ENGINEER SHOP DRAWINGS OF THE PRECAST STRUCTURES (AND CERTIFICATION FROM A TESTING LABORATORY) FOR APPROVAL. SHOP DRAWINGS SHOULD ILLUSTRATE ALL DIMENSIONS, REINFORCEMENT, AND SPECIFICATIONS FOR THE COMPLETE STRUCTURE.

18. ALL CASTING SHALL BE TRUE TO PATTERN AND DIMENSIONS, FREE FROM FAULTS OR DEFECTS AND WELL CLEANED.

19. BEARING SURFACES BETWEEN CAST FRAMES, COVERS AND GRATES SHALL BE MACHINED AND FITTED TOGETHER TO ASSURE A TRUE AND EVEN FIT. WITHIN AREAS OF VEHICULAR TRAFFIC THE FRAMES, COVERS AND GRATING SHALL BE MACHINE-GROUND SO THAT IRREGULARITY OF CONTACT WILL BE REDUCED TO A MINIMUM AND WILL BE RATTLE PROOF.

20. CONTRACTOR IS TO PREVENT INTRODUCTION OF DEBRIS OR DIRT INTO EXISTING STORM DRAINAGE AND/OR SANITARY SEWER SYSTEM AS A RESULT OF CONSTRUCTION ACTIVITIES. ALL LINES AND STRUCTURES SHALL BE CLEANED PRIOR TO FINAL INSPECTION AND ACCEPTANCE.

21. LOCATION OF DRAINAGE STRUCTURES GOVERN. ADJUST PIPE LENGTHS AS REQUIRED.

22. MORTAR USED TO SEAL THE PIPE INTO THE WALLS OF THE PRECAST STRUCTURES WILL BE OF SUCH A MIX THAT SHRINKAGE WILL NOT CAUSE LEAKAGE IN OR OUT OF THE STRUCTURES. THE MAXIMUM OPENING THROUGH WALLS FOR PIPE SHALL BE THE MAXIMUM REQUIRED OUTSIDE DIAMETER PLUS 6".

23. ALL STRUCTURES SHALL BE SET PLUMS TO LINE AND GRADE AND SHALL REST ON A FIRM CAREFULLY GRADED SUB GRADE WHICH SHALL PROVIDE UNIFORM BEARING UNDER BASE.

24. ALL MUCK OR OTHER UNSTABLE MATERIAL ENCOUNTERED IN TRENCH BOTTOM SHALL BE REMOVED AND BACKFILLED WITH GRANULAR MATERIAL COMPACTED TO 98% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180, METHOD "D". GRANULAR BACKFILL TO BE TYPE D (COURSE ROCK BACKFILL), CRUSHED ROCK OR GRAVEL, WITH 100% PASSING A 1-INCH SIEVE AND NOT MORE THAN 10% PASSING A NUMBER 4 SIEVE, OR BETTER.

25. PIPE BEDDING SHALL BE SAND, GRAVELLY SAND, OR 1-INCH MINUS CRUSHED LIMESTONE, NOT MORE THAN 10% OF WHICH PASSES A NO. 200 SIEVE.

26. CONTRACTOR TO WRAP ALL PIPE JOINTS AND PIPE CONNECTIONS TO STRUCTURES WITH FDOT APPROVED FILTER FABRIC.

27. SHOP DRAWINGS FOR ALL STRUCTURES AND MATERIALS TO BE USED ON THE PROJECT SHALL BE SUBMITTED TO THE RESPECTIVE ENGINEERING AND UTILITY DEPARTMENTS FOR APPROVAL PRIOR TO CONSTRUCTION OR INSTALLATION.

28. PROTECT COMPLETED DRAINAGE STRUCTURES FROM CONTAMINATION BY SILT AND CONSTRUCTION DEBRIS. PLACE FILTER FABRIC BETWEEN THE FRAME AND INLET GRATE UNTIL SITE CONSTRUCTION OPERATIONS ARE FINISHED.

29. CONTRACTOR SHALL INSPECT AND CLEAN ALL EXISTING STRUCTURES AND PIPES WITHIN THE PROJECT LIMITS. IF EXISTING STRUCTURES AND PIPES ARE DAMAGED, CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONNECTION WITH THE NEW PIPE OR STRUCTURE. CONTRACTOR TO ENSURE ALL STORM WATER PIPING AND STRUCTURES ARE CLEANED PRIOR TO PROJECT CLOSEOUT.

30. ALL DRAINAGE CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF DERM, MIAMI-DADE COUNTY PUBLIC WORKS MINIMUM STANDARDS AND VILLAGE OF PALMETTO BAY.

31. CATCH BASINS, SEEPAGE DRAINS, PAVEMENT RESTORATION AND PAVEMENT AROUND CATCH BASINS TO BE ACCORDING TO THE DETAILS AND APPLICABLE REQUIREMENTS OF FDOT, MIAMI-DADE COUNTY PUBLIC WORKS MINIMUM STANDARDS AND VILLAGE OF PALMETTO BAY.

PAVING

1. GENERAL

A. ALL UNDERGROUND UTILITIES SHALL BE COMPLETED PRIOR TO THE CONSTRUCTION OF THE LIMEROCK BASE AND PRIOR TO THE PLACEMENT OF THE PAVEMENT.

2. MATERIALS

A. STABILIZED SUB-GRADE FILL WITH A MINIMUM LBR OF 40.

B. LIMEROCK BASE MATERIAL SHALL HAVE A MINIMUM OF 60% CARBONATES (CALCIUM AND MAGNESIUM) WITH A MINIMUM LBR OF 100.

C. PRIME COAT SHALL BE APPLIED AT THE RATE OF 0.25 GAL/YD SQ. AND TACK COAT SHALL MEET FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARDS.

D. SURFACE COURSE SHALL BE EQUAL TO FDOT FC-9.5 ASPHALTIC CONCRETE (OR APPROVED SUBSTITUTE).

3. INSTALLATION

A. CONTRACTOR SHALL PREPARE PAVEMENT AREAS IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT PRIOR TO INSTALLATION OF STABILIZED SUB-GRADE FILL.

B. STABILIZED SUB-GRADE FILL SHALL BE 12" THICK AND COMPACTED TO 98% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (AASHTO T-180). SUB-GRADE FILL MATERIAL SHALL BE PLACED IN MAXIMUM 6" LIFTS. SUB-GRADE FILL MATERIAL GREATER THAN 6" SHALL BE PLACED IN TWO OR MORE EQUAL LIFTS.

C. LIMEROCK BASE MATERIAL SHALL BE 12" THICK AND COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.

D. LIMEROCK BASE MATERIAL SHALL BE PLACED IN MAXIMUM 6" LIFTS. BASES GREATER THAN 6" SHALL BE PLACED IN TWO OR MORE EQUAL LIFTS.

E. PRIME COAT SHALL BE PLACED ON ALL LIMEROCK BASES IN ACCORDANCE WITH FDOT STANDARDS.

F. TACK COAT SHALL BE PLACED AS REQUIRED IN ACCORDANCE WITH FDOT STANDARDS.

4. TESTING ALL SUB-GRADE, LIMEROCK AND ASPHALT TESTS REQUIRED SHALL BE TAKEN AT THE DIRECTION OF THE ENGINEER.

5. ALL ASPHALTIC CONCRETE SHALL HAVE A MAXIMUM OF 20% (BY WEIGHT) OF RECYCLED ASPHALT PRODUCTS (RAP).

SIGNING AND MARKING

1. ALL PAVEMENT MARKINGS SHALL BE HOT APPLIED THERMOPLASTIC MANUFACTURED AND APPLIED IN ACCORDANCE WITH FOOT STANDARD SPECIFICATION SECTION 971, LATEST EDITION.

2. ALL SIGNS SHALL BE MANUFACTURED AND INSTALLED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION AND MEET THE REQUIREMENTS OF MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS.

MIAMI-DADE COUNTY DEPARTMENT OF ENVIRONMENTAL RESOURCES MANAGEMENT (DERM) TREE REVIEW NOTES

1. ALL EXISTING TREES TO REMAIN.

2. ALL PLANTS PROHIBITED BY MIAMI-DADE COUNTY SHALL BE REMOVED FROM ALL PORTIONS WITHIN THE RIGHT-OF-WAY BOUNDARY PRIOR TO DEVELOPMENT. THE CONTRACTOR IS ADVISED DERM STAFF CAN ASSIST WITH INVASIVE SPECIES IDENTIFICATION ON SITE.

3. PROTECTIVE BARRIER/SILT FENCE TO BE INSPECTED BY DERM PRIOR TO COMMENCEMENT OF WORK AND TO REMAIN IN PLACE UNTIL COMPLETION OF PROJECT.

4. PROTECTIVE BARRIER/SILT FENCE SHALL BE 2.00 FT FROM EDGE OF PAVEMENT, EXCEPT FOR AREAS WHERE THIS WOULD CAUSE IT TO INTRUDE INTO PRIVATE LAND. PROTECTIVE BARRIER/SILT FENCE SHALL BE WITHIN PUBLIC RIGHT-OF-WAY AND SHALL NOT DISTURB NATURAL FOREST COMMUNITIES OR ENVIRONMENTALLY ENDANGERED LANDS.

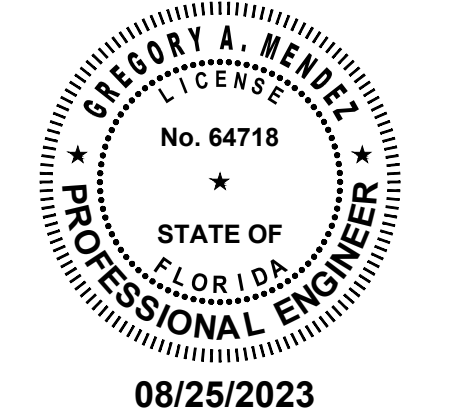
5. NO DEWATERING SHALL BE DISCHARGED INTO ENVIRONMENTALLY ENDANGERED LANDS (EEL) OR NATURAL FOREST COMMUNITIES (NFC).

6. NO SOD SHALL BE INSTALLED ADJACENT TO AN ENVIRONMENTALLY ENDANGERED LAND (EEL) OR A NATURAL FOREST COMMUNITY (NFC), THIS INCLUDES ALL AREAS BETWEEN THESE AND THEIR ADJACENT EDGE OF PAVEMENT.

REGISTRATION

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CLIENT



PROJECT INFORMATION

SUB-BASIN 44
DRAINAGE
IMPROVEMENTS

PALMETTO BAY, FL

PROJECT NUMBER

21-0513.00001

CLIENT PROJECT NUMBER

VERIFY SCALES

0 1"

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REVISIONS

DATE OF ISSUE

AUGUST 2023

DESIGNED BY

HP

DRAWN BY

HP

CHECKED BY

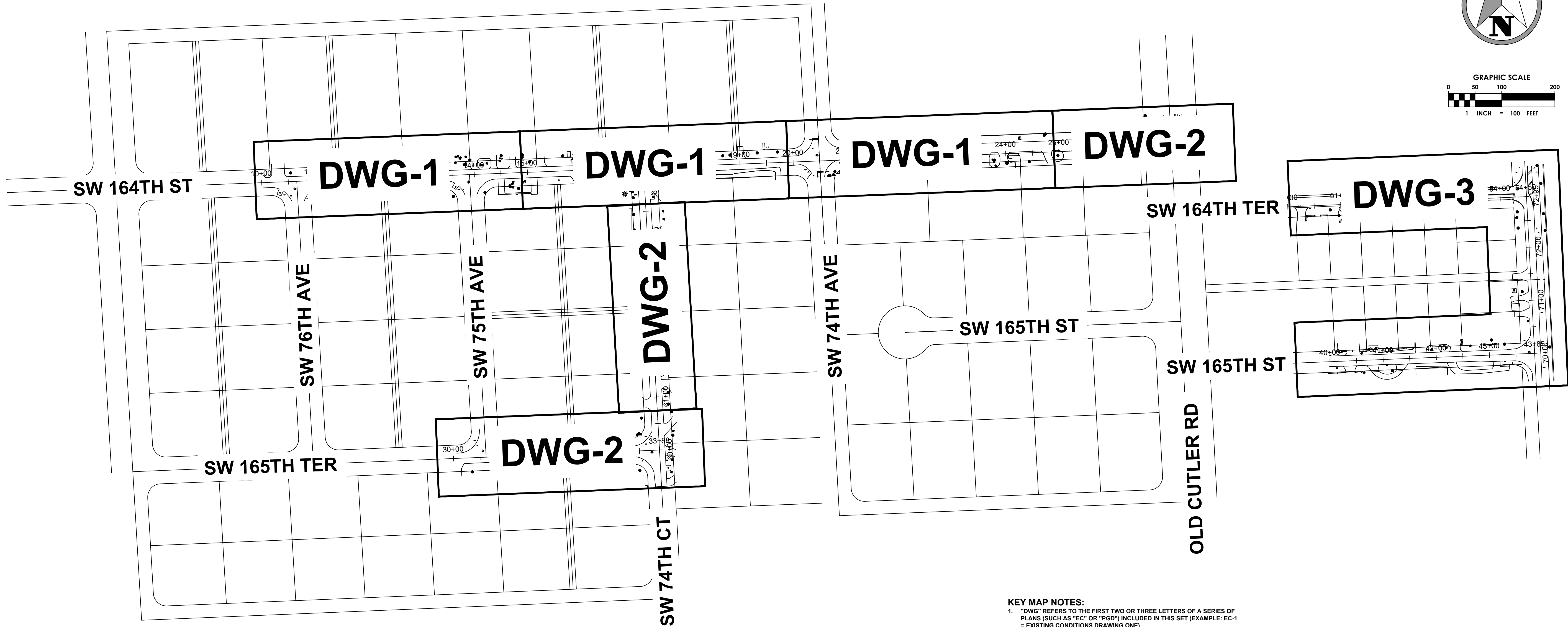
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GENERAL NOTES

DRAWING NUMBER

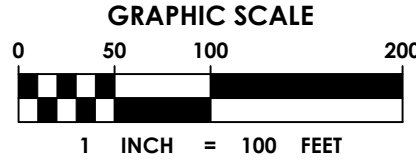
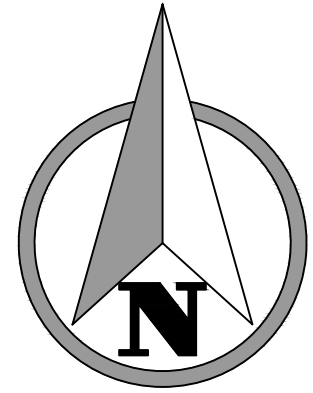
GEN-1
2 OF 22



KEY MAP NOTES:
1. "DWG" REFERS TO THE FIRST TWO OR THREE LETTERS OF A SERIES OF PLANS (SUCH AS "EC" OR "PGD") INCLUDED IN THIS SET (EXAMPLE: EC-1 = EXISTING CONDITIONS DRAWING ONE).

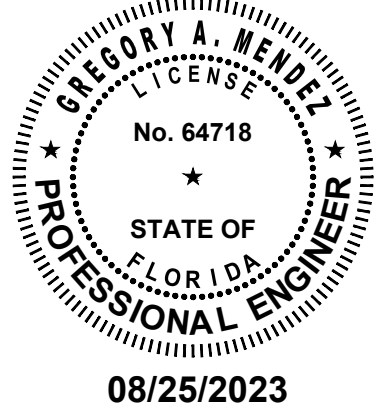
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 - NATIONAL GEODETIC SURVEY (NGS) BENCHMARK USED:
BENCHMARK 1
DESIGNATION = U-758
DESCRIPTION = SW 168 ST - 103' NORTH OF C/L, OLD CUTLER RD - 46' WEST OF C/L
ELEVATION = 12.33' NGVD 29
BENCHMARK 2
DESIGNATION = CD-26-1
DESCRIPTION = SW 168 ST - 14.5' NORTH OF C/L, SW 77 AVE - 350'+- WEST OF CUTLER DRAIN CANAL C-100-A
ELEVATION = 12.08' NGVD 29
 - CONTRACTOR IS TO PROTECT ALL EXISTING TREES, SIGNS, AND ABOVE GROUND UTILITIES NOT IMPACTED BY THIS PLAN.

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PROJECT INFORMATION

**SUB-BASIN 44
DRAINAGE
IMPROVEMENTS**

PALMETTO BAY, FL

PROJECT NUMBER
21-0513.00001

CLIENT PROJECT NUMBER

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DATE OF ISSUE
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HP

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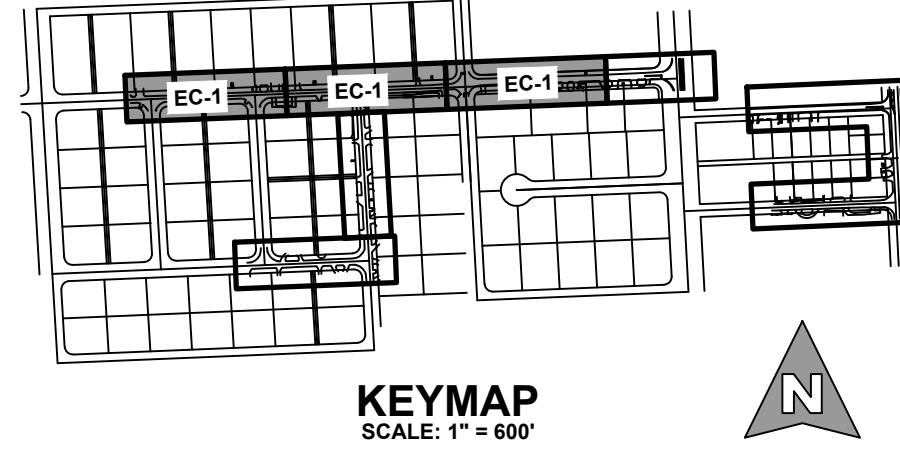
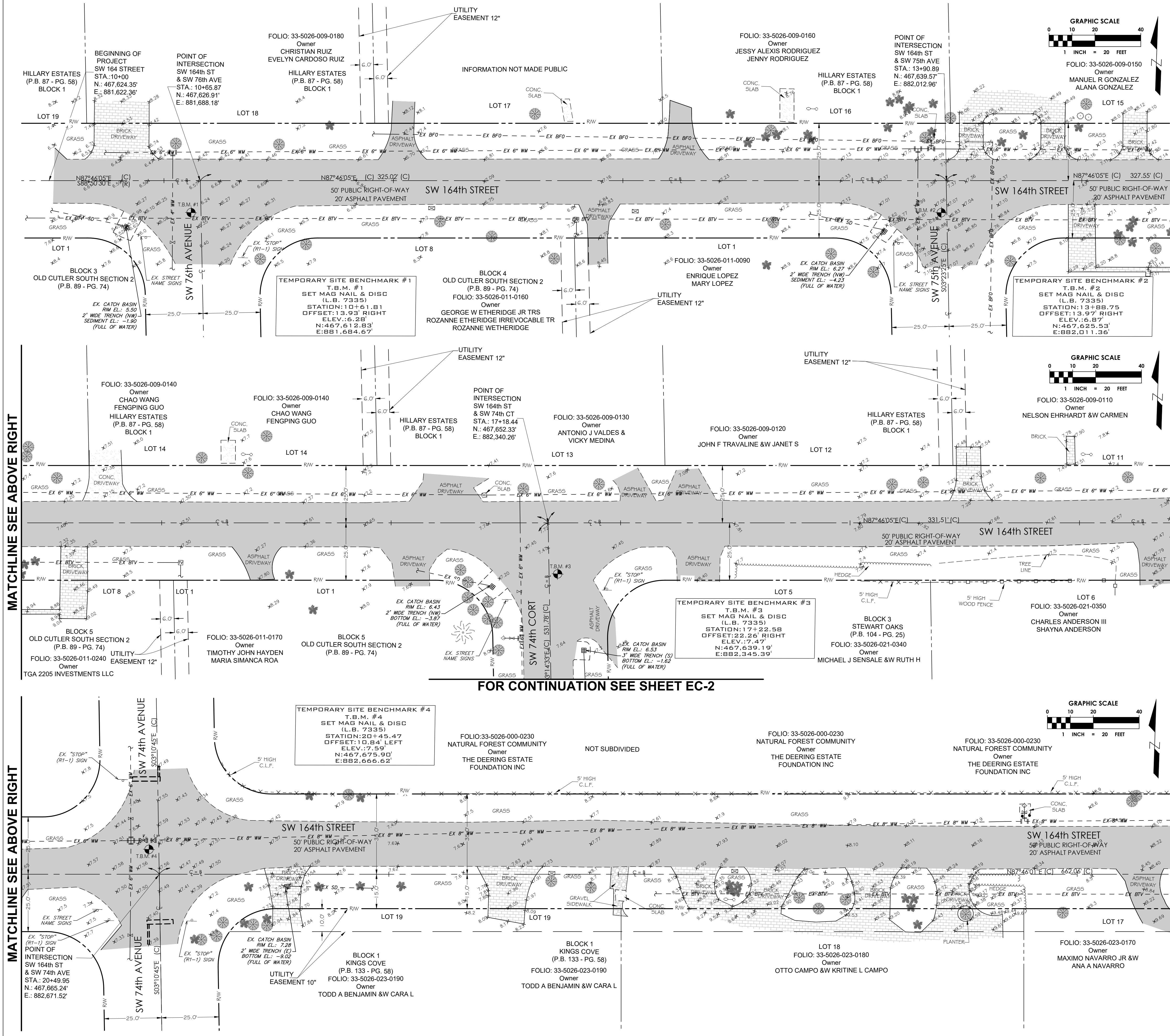
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GM

DRAWING TITLE

KEY SHEET

DRAWING NUMBER
KEY-1
3 OF 22

BID SET



LEGEND	
	RIGHT-OF-WAY LINE
	PARCEL BOUNDARY
	LOT OR PROPERTY LINE
	CENTER LINE
	EXISTING EDGE OF PAVEMENT
	EXISTING CHAIN OR WIRE FENCE
	EXISTING OVERHEAD ELECTRIC
	EXISTING WATER MAIN
	EXISTING GAS
	EXISTING BURIED COMMUNICATION
	EXISTING BURIED FIBER OPTIC
	EXISTING BURIED TELEVISION
	EXISTING OVERHEAD ELECTRIC
	EXISTING STORM DRAINAGE
	EXISTING CATCH BASIN
	EXISTING FIRE HYDRANT
	EXISTING GATE VALVE
	EXISTING SANITARY MANHOLE
	EXISTING CLEANOUT
	EXISTING GAS VALVE
	EXISTING ELEVATION
	EXISTING STREET SIGN POLE
	EXISTING HEDGE LINE
	EXISTING CANOPY TREE
	EXISTING INTERMEDIATE UTILITY POLE
	EXISTING GUY ANCHOR
	EXISTING MAILBOX
	EXISTING LIGHT POLE
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PALMETTO BAY, FL

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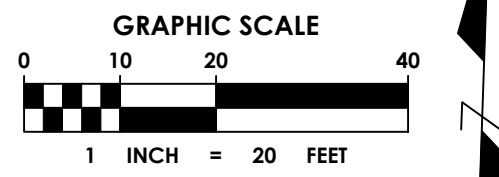
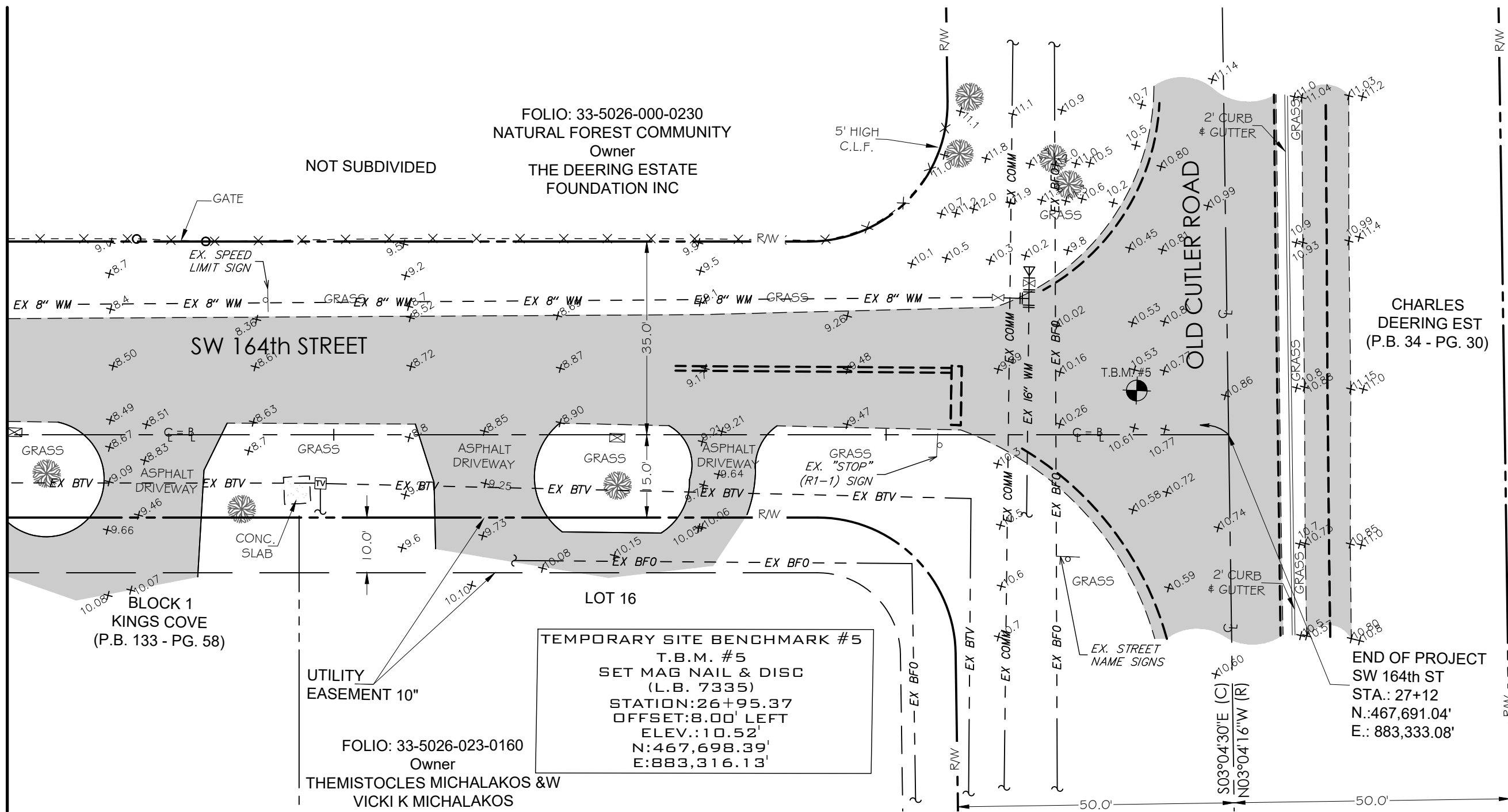
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REVISIONS

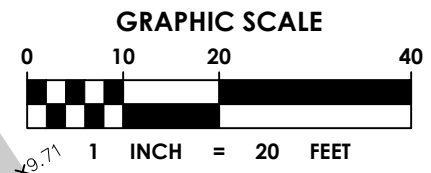
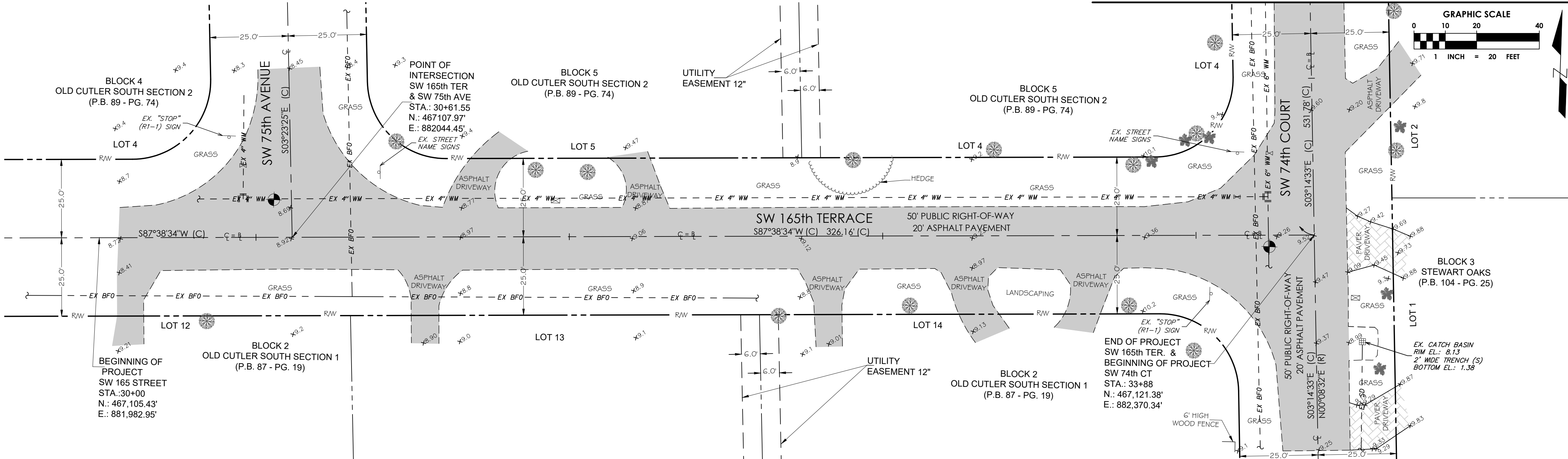
DATE OF ISSUE	AUGUST 2023
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DRAWN BY	HP
CHECKED BY	GM
DRAWING TITLE	EXISTING CONDITIONS PLAN
DRAWING NUMBER	EC-1

4 OF 22

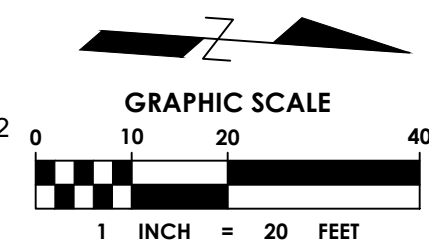
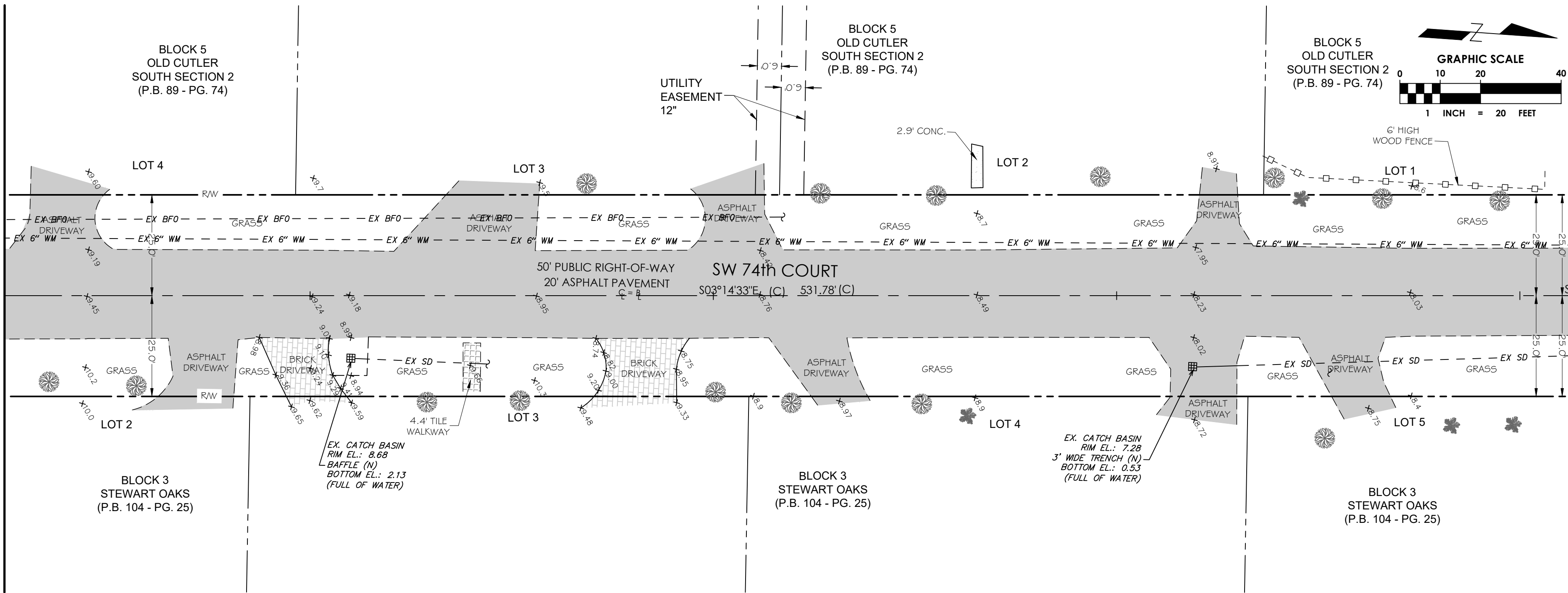
MATCHLINE SEE SHEET EC-1



MATCHLINE SEE BELOW LEFT



MATCHLINE SEE ABOVE RIGHT



MATCHLINE SEE SHEET EC-1

LEGEND

---	RIGHT-OF-WAY LINE
---	PARCEL BOUNDARY
---	LOT OR PROPERTY LINE
---	CENTER LINE
---	EXISTING EDGE OF PAVEMENT
---	EXISTING CHAIN OR WIRE FENCE
---	EXISTING OVERHEAD ELECTRIC
---	EXISTING WATER MAIN
---	EXISTING GAS
---	EXISTING BURIED COMMUNICATION
---	EXISTING BURIED FIBER OPTIC
---	EXISTING BURIED TELEVISION
---	EXISTING OVERHEAD ELECTRIC
---	EXISTING STORM DRAINAGE
---	EXISTING CATCH BASIN
---	EXISTING FIRE HYDRANT
---	EXISTING GATE VALVE
---	EXISTING SANITARY MANHOLE
---	EXISTING CLEANOUT
---	EXISTING GAS VALVE
---	EXISTING ELEVATION
---	EXISTING STREET SIGN POLE
---	EXISTING HEDGE LINE
---	EXISTING CANOPY TREE
---	EXISTING METEOROLOGICAL POLE
---	EXISTING GUY ANCHOR
---	EXISTING MAILBOX
---	EXISTING LIGHT POLE
---	EXISTING ASPHALT
---	EXISTING BRICK
---	EXISTING GRAVEL
---	EXISTING CONCRETE

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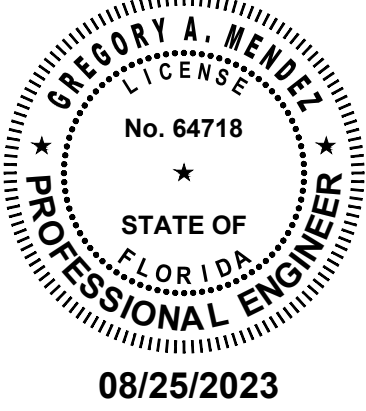
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PROJECT INFORMATION

**SUB-BASIN 44
DRAINAGE
IMPROVEMENTS**

PALMETTO BAY, FL

PROJECT NUMBER
21-0513.00001

CLIENT PROJECT NUMBER

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DATE OF ISSUE
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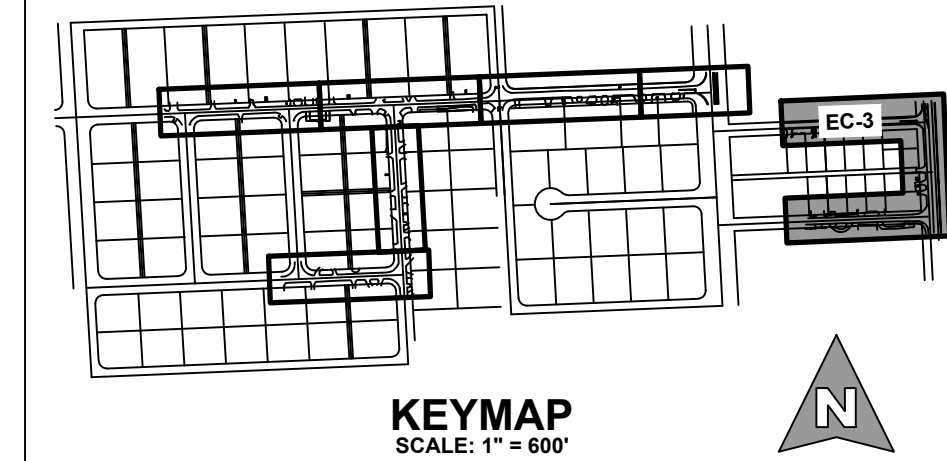
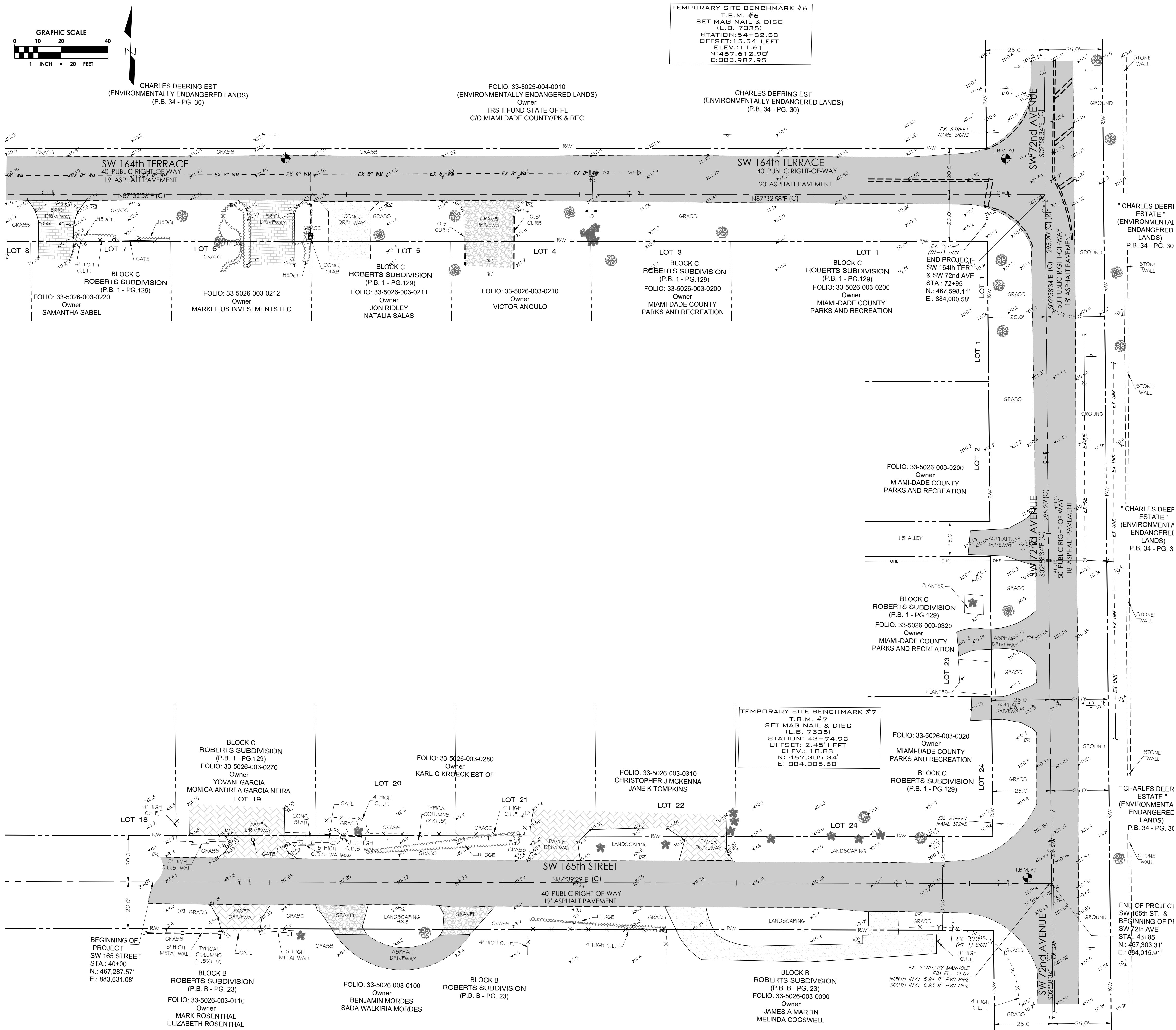
**EXISTING
CONDITIONS
PLAN**

DRAWING NUMBER

EC-2

5 OF 22

BID SET



LEGEND

	RIGHT-OF-WAY LINE
	PARCEL BOUNDARY
	LOT OR PROPERTY LINE
	CENTER LINE
	EXISTING EDGE OF PAVEMENT
	EXISTING CHAIN OR WIRE ELECTRIC
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	EXISTING SANITARY MANHOLE
	EXISTING CLEANOUT
	EXISTING GAS VALVE
	EXISTING ELEVATION
	EXISTING STREET SIGN POLE
	EXISTING HEDGE LINE
	EXISTING CANOPY TREE
	EXISTING METER/UTILITY POLE
	EXISTING GUY ANCHOR
	EXISTING MAILBOX
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GREGORY A. MENDEZ
No. 64718
STATE OF FLORIDA
PROFESSIONAL ENGINEER
08/25/2023

CLIENT

Palmetto Bay, FL

PROJECT INFORMATION

SUB-BASIN 44 DRAINAGE IMPROVEMENTS

PALMETTO BAY, FL
PROJECT NUMBER
21-0513.00001
CLIENT PROJECT NUMBER

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EXISTING CONDITIONS PLAN
DRAWING NUMBER
EC-3
6 OF 22

BID SET

GREGORY A. MENDEZ
LICENSE
No. 64718
★
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
08/25/2023

SUB-BASIN 44 DRAINAGE IMPROVEMENTS

PROJECT NUMBER
21-0513.00001

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DEMOLITION PLAN

DEM-1
7 OF 22



- | | |
|--|-------------------------------------|
| | RIGHT-OF-WAY LINE |
| | PARCEL BOUNDARY |
| | LOT OR PROPERTY LINE |
| | CENTER LINE |
| | <i>EXISTING EDGE OF PAVEMENT</i> |
| | <i>EXISTING CHAIN OR WIRE FENCE</i> |
| | <i>EXISTING OVERHEAD ELECTRIC</i> |
| | <i>EXISTING WATER MAIN</i> |
| | <i>EXISTING GAS</i> |
| | <i>EXISTING STORM DRAINAGE</i> |
| | <i>EXISTING CATCH BASIN</i> |
| | <i>EXISTING FIRE HYDRANT</i> |
| | <i>EXISTING GATE VALVE</i> |
| | <i>EXISTING SANITARY MANHOLE</i> |
| | <i>EXISTING CLEANOUT</i> |
| | <i>EXISTING GAS VALVE</i> |

- | | |
|--|--------------------------------------|
| | EXISTING ELEVATION |
| | EXISTING STREET SIGN POLE |
| | EXISTING HEDGE LINE |
| | EXISTING CANOPY TREE |
| | EXISTING PALM TREE |
| | EXISTING WOODEN UTILITY POLE |
| | EXISTING GUY ANCHOR |
| | EXISTING MAILBOX |
| | REMOVE ITEM |
| | REMOVE MATERIAL FROM AREA |
| | AREA TO BE MILLED (1" AVERAGE DEPTH) |
| | REMOVE ITEM |

DEMOLITION NOTES:

1. DO NOT START DEMOLITION WORK UNTIL UTILITY DISCONNECTING AND SEALING HAVE BEEN COMPLETED AND VERIFIED IN WRITING.
2. BEFORE PROCEEDING WITH DEMOLITION OPERATIONS, THE CONTRACTOR SHALL OBTAIN A PERMIT FROM THE CITY OF CHICAGO TO REMOVE AND DISPOSE OF CHIMNEYS, GASES, EXPLOSIVES, ACIDS, FLAMMABLES, OR OTHER DANGEROUS MATERIALS.
3. REMOVE ALL OBSTRUCTIONS AND REMOVE DEBRIS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED AND USED FACILITIES.
4. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER ADJACENT OCCUPIED OR IN-USE UTILITY RIGHTS-OF-WAY OR OTHER PUBLIC DOMAIN. THE TRIBE AND AUTHORITIES HAVING JURISDICTION, PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFICWAYS AS REQUIRED BY GOVERNMENT REGULATIONS.
5. CONDUCT DEMOLITION CAREFULLY TO AVOID PROPERTY INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDINGS AND FACILITIES TO REMAIN. ENSURE SAFE PASSAGE OF PEOPLE AROUND DEMOLITION AREA.
6. ERECT TEMPORARY BARRIERS, FENCING, AND LIGHTING, SIGNAGE, BARRIERS, RAILINGS, ETC., WHERE REQUIRED BY AUTHORITIES HAVING JURISDICTION.
7. PROTECT EXISTING SITE IMPROVEMENTS, APPURTENANCES, AND LANDSCAPING TO REMAIN.
8. ADJACENT IMPROVEMENTS SHALL BE CLEANED OF DUST, DIRT, AND DEBRIS CAUSED BY DEMOLITION OPERATIONS. RETURN ADJACENT AREAS TO THE CONDITION THEY WERE IN BEFORE DEMOLITION.
9. FOR EFFECTIVE DEMOLITION, USE CUTTING METHODS: AT LEAST LIKELY TO DAMAGE CONSTRUCTION TO REMAIN OR ADJOINING CONSTRUCTION, TO MINIMIZE DISTURBANCE OF ADJACENT SURFACES, USE HAND OR SMALL MACHINERY SUCH AS DISINTEGRATORS, JACKHAMMERS, OR CHIPPING OR CHIPPING, TEMPORARILY CROUCH OPENINGS TO REMAIN.
10. DEMOLISH CONCRETE IN SMALL SECTIONS, CUT CONCRETE AT JUNCTURES WITH CONSTRUCTION TO REMAIN, USING POWER-DRIVEN MASONRY SAW OR HAND TOOLS; DO NOT USE POWER-DRIVEN IMPACT TOOLS.
11. INFORMATION SHOWN ON THE DRAWINGS AS TO THE LOCATION OF EXISTING UTILITIES SHALL BE USED AS A GUIDE ONLY. THE CONTRACTOR SHALL OBTAIN ALL UTILITIES INFORMATION AVAILABLE TO THE ENGINEER; HOWEVER, THIS INFORMATION IS NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE LOCATION, CHARACTER, AND DEPTH OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS, BY EVERY MEANS POSSIBLE, TO DETERMINE SAID LOCATIONS AND THE LOCATIONS OF RECENT ADDITIONS TO THE SYSTEMS NOT SHOWN.
12. REMOVAL, DEMOLITION, HAULING, AND DISPOSAL SHALL COMPLY WITH REGULATIONS ISSUED BY D.E.P., E.P.A., AND ANY OTHER AUTHORITY HAVING JURISDICTION.
13. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
14. ALL EXISTING PATHWAY AND STREET LIGHTING WILL REMAIN IN PLACE AND REMAIN IN SERVICE DURING CONSTRUCTION OPERATIONS.

EXISTING CONDITIONS NOTES:

1. EXISTING CONDITIONS PRESENTED ARE BASED ON A TOPOGRAPHIC SURVEY PROVIDED BY LONGITUDE SURVEYORS LLC, PROJECT NO. 1056-01-01 AND DATUM 10/23/92. ADDITIONAL INFORMATION WAS OBTAINED FROM AS-BUILTS AND RECORD DRAWINGS PROVIDED BY UTILITY COMPANIES, G.I.S. INFORMATION AND FIELD VISITS.
2. ALL ELEVATIONS MONUMENTED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD '29).
3. NATIONAL GEODETIC SURVEY (NGS) BENCHMARK USED:
 - BENCHMARK 1
 - DESIGNATION = U-758
 - DESCRIPTION = SW 168 ST - 103' NORTH OF C/L, OLD CUTLER RD - 46' WEST OF C/L
 - ELEVATION = 12.33' NGVD 29
 - BENCHMARK 2
 - DESIGNATION = C-26-1
 - DESCRIPTION = SW 168 ST - 14.5' NORTH OF C/L, SW 77 AVE - 350'- WEST OF CUTLER DRAIN CANAL C-100-A
 - ELEVATION = 12.08' NGVD 29
4. CONTRACTOR IS TO PROTECT ALL EXISTING TREES, SIGNS, AND ABOVE GROUND UTILITIES NOT IMPACTED BY THIS PLAN.

Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

Check positive response codes before you dig!

BID SET

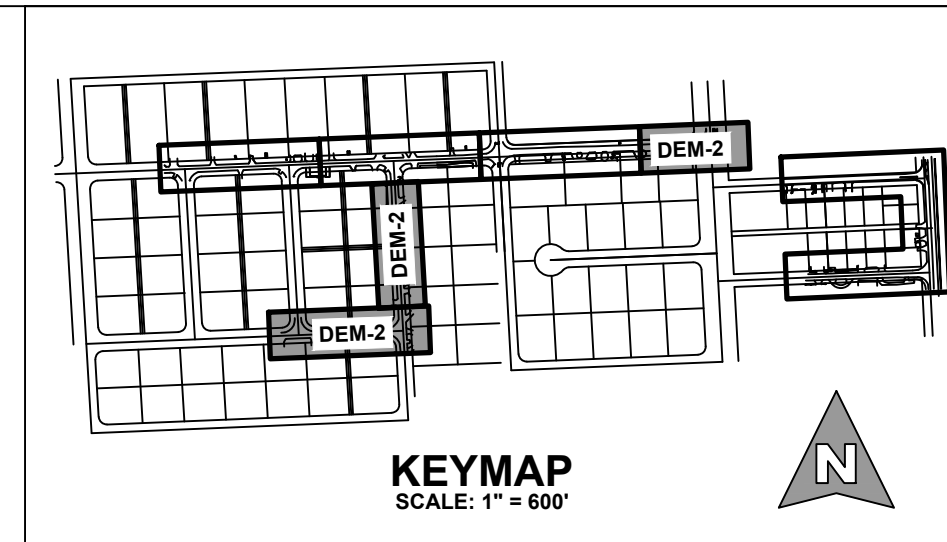
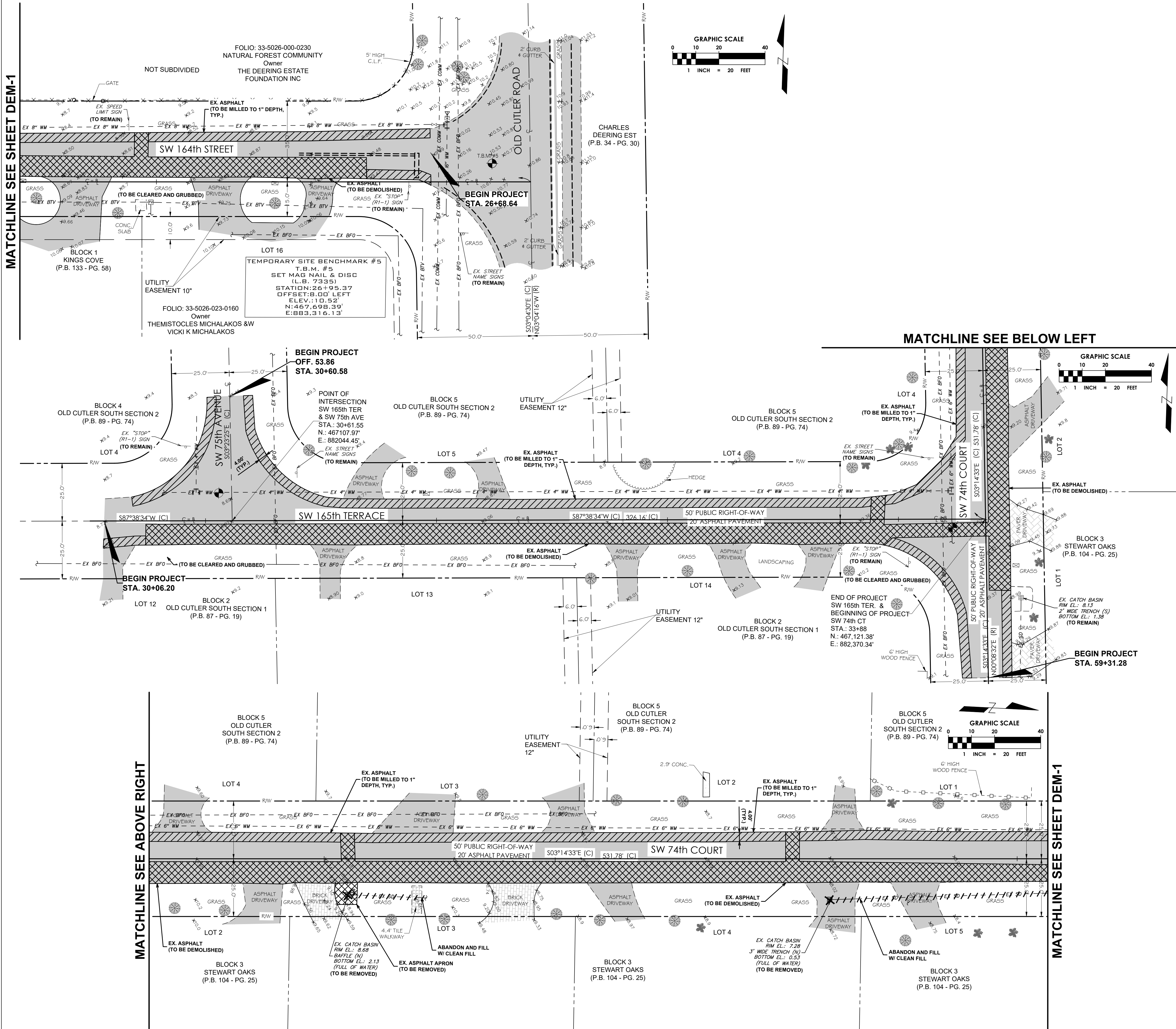


FOR CONTINUATION SEE SHEET DEM-2



Plot Date: 8/25/2023 4:16:29 PM Username: aroman Layout Name: DEM-1

Filename: 22-0513.00001 - Demolition Plan.dwg



LEGEND	
	RIGHT-OF-WAY LINE
	PARCEL BOUNDARY
	LOT OR PROPERTY LINE
	CENTER LINE
	EXISTING EDGE OF PAVEMENT
	EXISTING CHAIN OR WIRE FENCE
	EXISTING OVERHEAD ELECTRIC
	EXISTING WATER MAIN
	EXISTING GAS
	EXISTING STORM DRAINAGE
	EXISTING CATCH BASIN
	EXISTING FIRE HYDRANT
	EXISTING GATE VALVE
	EXISTING SANITARY MANHOLE
	EXISTING CLEANOUT
	EXISTING GAS VALVE
	EXISTING ELEVATION
	EXISTING STREET SIGN POLE
	EXISTING HEDGE LINE
	EXISTING CANOPY TREE
	EXISTING PALM TREE
	EXISTING WOODEN UTILITY POLE
	EXISTING GUY ANCHOR
	EXISTING MAILBOX
	EXISTING ASPHALT
	REMOVE MATERIAL FROM AREA
	AREA TO BE MILLED (1" AVERAGE DEPTH)
	REMOVE ITEM

- DEMOLITION NOTES:**
- DO NOT START DEMOLITION WORK UNTIL UTILITY DISCONNECTING AND SEALING HAVE BEEN COMPLETED AND VERIFIED IN WRITING.
 - BEFORE PROCEEDING WITH DEMOLITION OPERATIONS THE CONTRACTOR IS TO DRAIN, PURGE, OR OTHERWISE REMOVE, COLLECT, AND DISPOSE OF CHEMICALS, GASES, EXPLOSIVES, ACIDS, FLAMMABLES, OR OTHER DANGEROUS MATERIALS.
 - CONDUCT DEMOLITION OPERATIONS AND REMOVE DEBRIS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED AREAS AND FACILITIES.
 - DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER ADJACENT OCCUPIED OR IN-USE FACILITIES WITHOUT PERMISSION FROM OWNER, THE TRIBE AND AUTHORITIES HAVING JURISDICTION. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS AS REQUIRED BY GOVERNING REGULATIONS.
 - CONDUCT DEMOLITION OPERATIONS TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDINGS AND FACILITIES TO REMAIN. ENSURE SAFE PASSAGE OF PEOPLE AROUND DEMOLITION AREA.
 - ERECT TEMPORARY PROTECTION, SUCH AS WALKS, FENCES, BARRIERS, RAILINGS, ETC. WHERE REQUIRED BY AUTHORITIES HAVING JURISDICTION.
 - PROTECT EXISTING SITE IMPROVEMENTS, APPURTENANCES, AND LANDSCAPING TO REMAIN.
 - ADJACENT IMPROVEMENTS SHALL BE CLEANED OF DUST, DIRT, AND DEBRIS CAUSED BY DEMOLITION OPERATIONS. RETURN ADJACENT AREAS TO CONDITION EXISTING BEFORE START OF DEMOLITION.
 - FOR SELECTIVE DEMOLITION, USE CUTTING METHODS LEAST LIKELY TO DAMAGE CONSTRUCTION TO REMAIN OR ADJOINING CONSTRUCTION TO MINIMIZE DISTURBANCE OF ADJACENT SURFACES. USE HAND OR SMALL POWER TOOLS DESIGNED FOR SAWING OR GRINDING, NOT HAMMERING OR CHOPPING. TEMPORARILY COVER OPENINGS TO REMAIN.
 - DEMOLISH CONCRETE IN SMALL SECTIONS. CUT CONCRETE AT JUNCTURES WITH CONSTRUCTION TO REMAIN, USING POWER-DRIVEN MASONRY SAW OR HAND TOOLS; DO NOT USE POWER-DRIVEN IMPACT TOOLS.
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DESIGNATION = U-758
DESCRIPTION = SW 168 ST - 103' NORTH OF C/L, OLD CUTLER RD - 46' WEST OF C/L
ELEVATION = 12.33' NGVD 29
BENCHMARK 2
DESIGNATION = CD-26-1
DESCRIPTION = SW 168 ST - 14.5' NORTH OF C/L, SW 77 AVE - 350' + - WEST OF CUTLER DRAIN CANAL C-100-A
ELEVATION = 12.08' NGVD 29
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Sunshine811
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Check positive response codes before you dig!

cma
chen moore and associates

3150 SW 38th Avenue
Suite 950
Miami, FL 33146
786.497.1500
www.chenmoore.com

REGISTRATION
This item has been digitally signed and sealed by **GREGORY A. MENDEZ, PE**, on the date adjacent to the seal.
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

GREGORY A. MENDEZ
LICENSE
No. 64718
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
08/25/2023

CLIENT

**VILLAGE OF
Palmetto Bay
FLORIDA**
Est. 2003

PROJECT INFORMATION

**SUB-BASIN 44
DRAINAGE
IMPROVEMENTS**

PALMETTO BAY, FL

PROJECT NUMBER
21-0513.00001

CLIENT PROJECT NUMBER

VERIFY SCALES
0 1"
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

REVISIONS

DATE OF ISSUE
AUGUST 2023

DESIGNED BY
HP

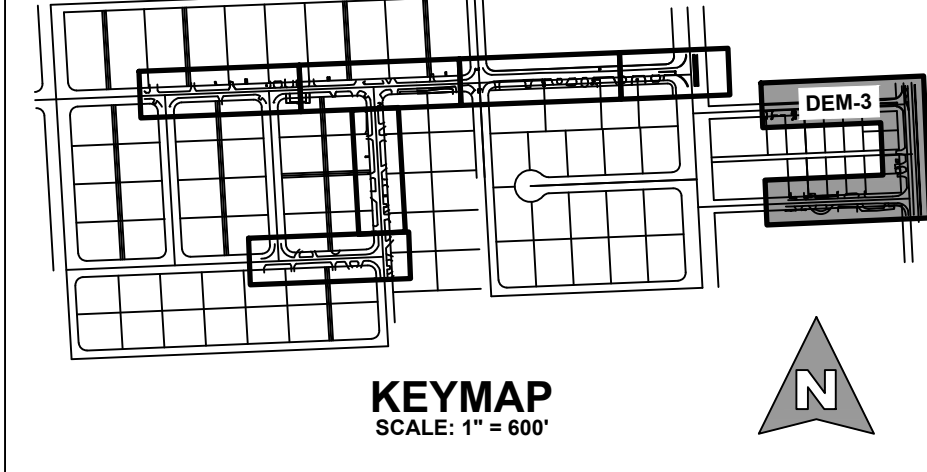
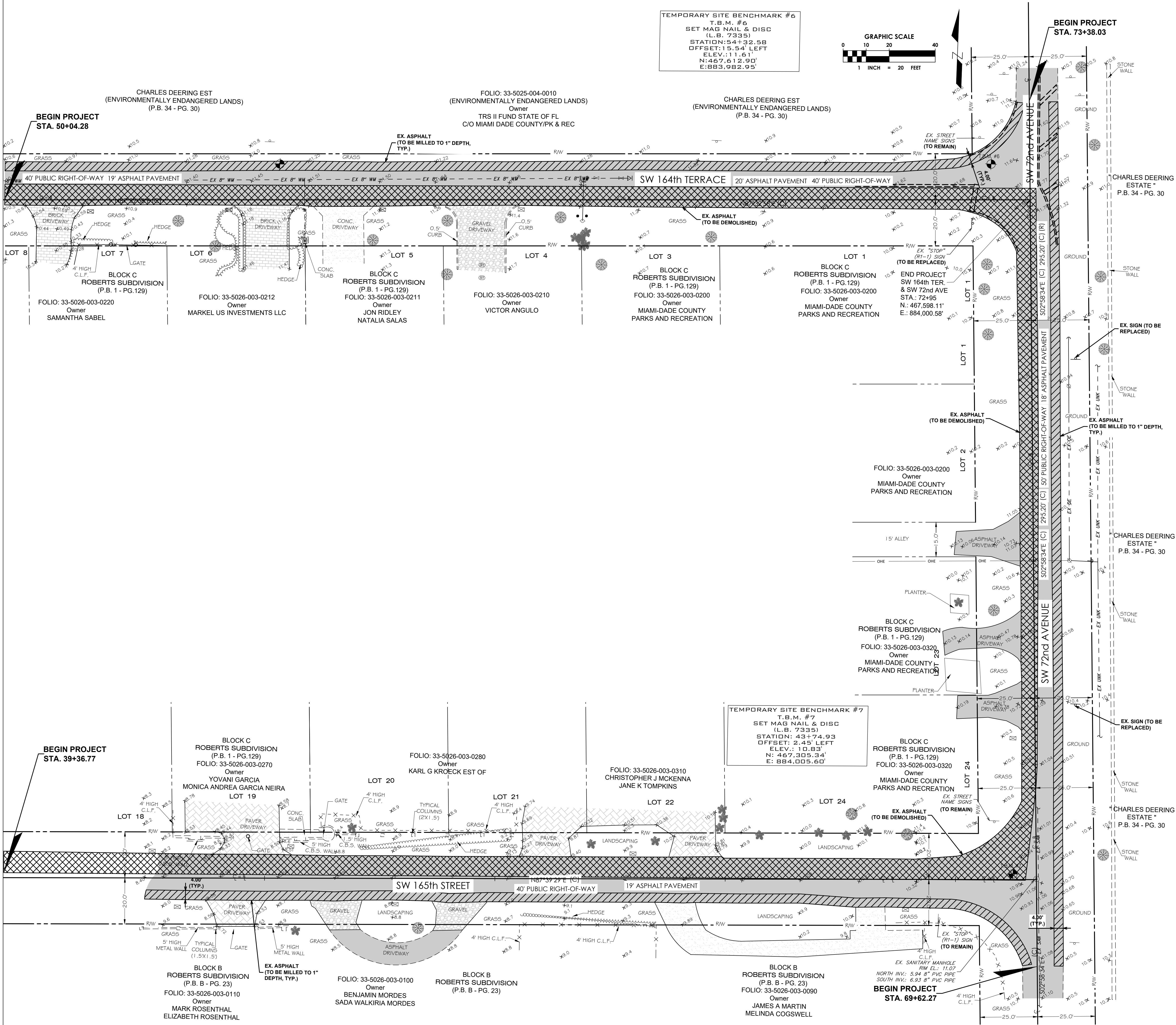
DRAWN BY
HP

CHECKED BY
GM

DRAWING TITLE
**DEMOLITION
PLAN**

DRAWING NUMBER
DEM-2
8 OF 22

BID SET



LEGEND	
	RIGHT-OF-WAY LINE
	PARCEL BOUNDARY
	LOT OR PROPERTY LINE
	CENTER LINE
	EXISTING EDGE OF PAVEMENT
	EXISTING CHAIN OR WIRE FENCE
	EXISTING OVERHEAD ELECTRIC
	EXISTING WATER MAIN
	EXISTING GAS
	EXISTING STORM DRAINAGE
	EXISTING CATCH BASIN
	EXISTING FIRE HYDRANT
	EXISTING GATE VALVE
	EXISTING SANITARY MANHOLE
	EXISTING CLEANOUT
	EXISTING GAS VALVE
	EXISTING ELEVATION
	EXISTING STREET SIGN POLE
	EXISTING HEDGE LINE
	EXISTING CANOPY TREE
	EXISTING PALM TREE
	EXISTING WOODEN UTILITY POLE
	EXISTING GUY ANCHOR
	EXISTING MAILBOX
	EXISTING ASPHALT
	REMOVE MATERIAL FROM AREA
	AREA TO BE MILLED (1" AVERAGE DEPTH)
	REMOVE ITEM

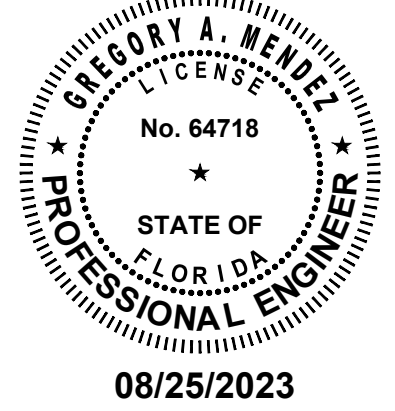
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- EXISTING CONDITIONS NOTES:**
- EXISTING CONDITIONS PRESENTED ARE BASED ON A TOPOGRAPHIC SURVEY PROVIDED BY LONGITUDE SURVEYORS LLC, PROJECT NO. 22096.0.01 AND DATED 03/30/2022. ADDITIONAL INFORMATION WAS OBTAINED FROM AS-BUILTS AND RECORD DRAWINGS PROVIDED BY UTILITY COMPANIES. ALL INFORMATION AND FIELD VISITS.
 - ALL ELEVATIONS ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).
 - NATIONAL GEODETIC SURVEY (NGS) BENCHMARK USED:
BENCHMARK 1
DESIGNATION = U-768
DESCRIPTION = SW 168 ST - 103' NORTH OF C/L, OLD CUTLER RD - 46' WEST OF C/L
ELEVATION = 12.33' NGVD 29
BENCHMARK 2
DESIGNATION = CD-26-1
DESCRIPTION = SW 168 ST - 14.5' NORTH OF C/L, SW 77 AVE - 350' +/- WEST OF CUTLER DRAIN CANAL C-100-A
ELEVATION = 12.08' NGVD 29
CONTRACTOR IS TO PROTECT ALL EXISTING TREES, SIGNS, AND ABOVE GROUND UTILITIES NOT IMPACTED BY THIS PLAN.

Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

Check positive response codes before you dig!

REGISTRATION
This item has been digitally signed and sealed by **GREGORY A. MENDEZ, PE**, on the date adjacent to the seal.
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.



CLIENT



PROJECT INFORMATION

**SUB-BASIN 44
DRAINAGE
IMPROVEMENTS**

PALMETTO BAY, FL

PROJECT NUMBER
21-0513.00001

CLIENT PROJECT NUMBER

VERIFY SCALES

0 1" = 100' (TYP.)
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

REVISIONS

DATE OF ISSUE

AUGUST 2023

DESIGNED BY

HP

DRAWN BY

HP

CHECKED BY

GM

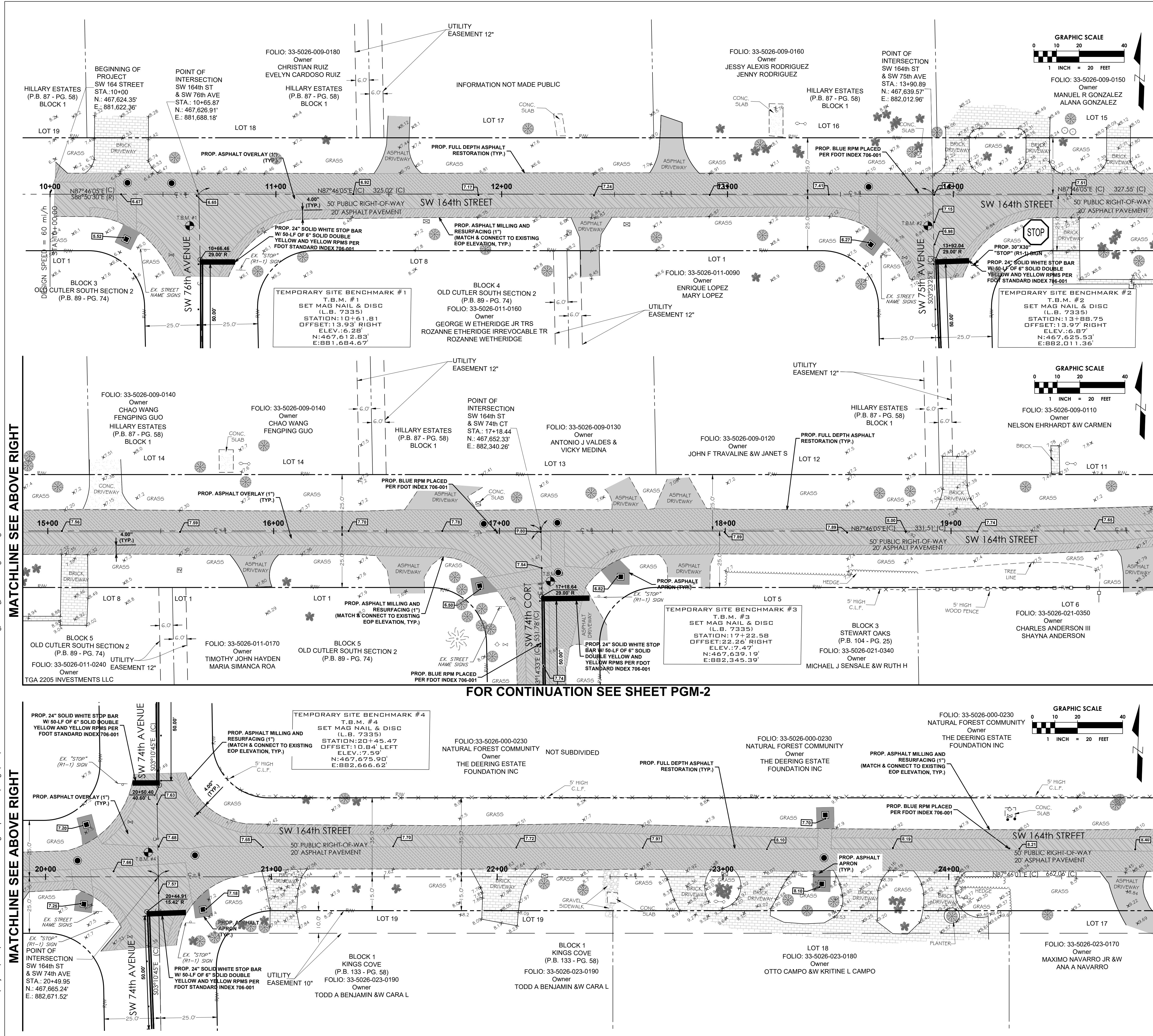
DRAWING TITLE

**DEMOLITION
PLAN**

DRAWING NUMBER

DEM-3
9 OF 22

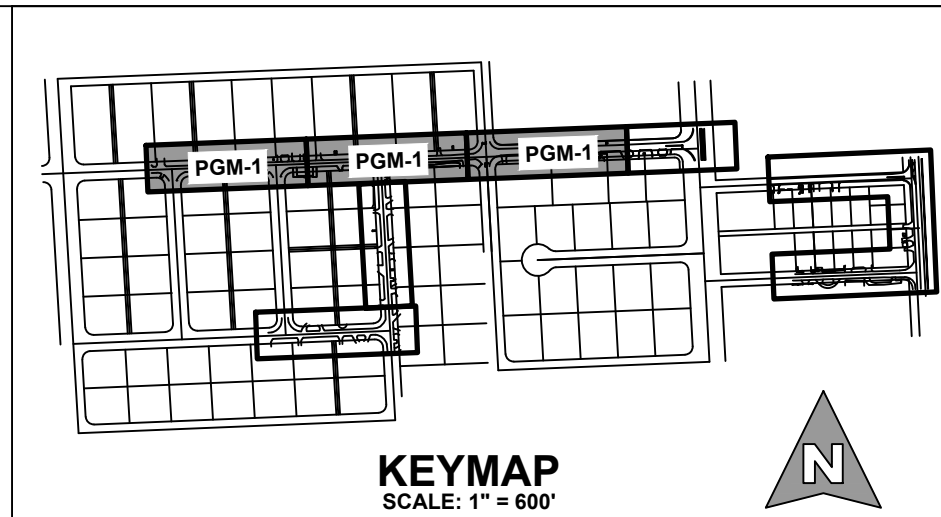
BID SET



MATCHLINE SEE BELOW LEFT

MATCHLINE SEE BELOW LEFT

FOR CONTINUATION SEE SHEET PGM-2



LEGEND

- RIGHT-OF-WAY LINE
- PARCEL BOUNDARY
- LOT OR PROPERTY LINE
- CENTER LINE
- EXISTING EDGE OF PAVEMENT
- EXISTING CHAIN OR WIRE FENCE
- EXISTING OVERHEAD ELECTRIC
- EXISTING WATER MAIN
- EXISTING GAS
- EXISTING BURIED COMMUNICATION
- EXISTING BURIED FIBER OPTIC
- EXISTING BURIED TELEVISION
- EXISTING OVERHEAD ELECTRIC
- EXISTING STORM DRAINAGE
- EXISTING CATCH BASIN
- EXISTING FIRE HYDRANT
- EXISTING GATE VALVE
- EXISTING SANITARY MANHOLE
- EXISTING CLEANOUT
- EXISTING GAS VALVE
- EXISTING ELEVATION
- EXISTING STREET SIGN POLE
- EXISTING HEDGE LINE
- EXISTING CANOPY TREE
- EXISTING PALM TREE
- EXISTING WOODEN UTILITY POLE
- EXISTING GUY ANCHOR
- EXISTING MAILBOX
- PROPOSED ELEVATION
- PROPOSED SURFACE FLOW ARROW
- PROPOSED CATCH BASIN OR INLET
- PROPOSED STORM MANHOLE
- PROPOSED MILL AND RESURFACE
- PROPOSED ASPHALT OVERLAY
- PROPOSED FULL DEPTH ASPHALT RECONSTRUCTION

PAVING AND GRADING NOTES:

- BEDDING AND INITIAL BACKFILL OVER DRAINAGE PIPE SHALL BE SAND WITH NO ROCK LARGER THAN 1" DIAMETER.
- BACKFILL MATERIAL UNDER PAVED AREAS SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
- BACKFILL MATERIAL UNDER AREAS NOT TO BE PAVED SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
- CONTRACTOR TO PROVIDE DETAILED AS-BUILTS SURVEYS THAT CLEARLY DEFINE THE AREAS OF WORK COMPLETED UNDER THIS CONTRACT INCLUDING BUT NOT LIMITED TO ALL RIM ELEVATIONS (EXISTING AND PROPOSED STRUCTURES), ALL INVERTS, BOTTOM OF STRUCTURE, SUFFICIENT SWALE ELEVATIONS TO DEMONSTRATE THAT SWALES DRAIN TO INLETS, LOCATION OF EXFILTRATION TRENCH, LOCATION OF DRIVEWAY RESTORATION, AND RESTORED ASPHALT PAVEMENT.

EXISTING CONDITIONS NOTES:

- EXISTING CONDITIONS PRESENTED ARE BASED ON A TOPOGRAPHIC SURVEY PROVIDED BY LONGITUDE SURVEYORS LLC, PROJECT NO. 22066.0.01 AND DATED 03/30/2022. ADDITIONAL INFORMATION WAS OBTAINED FROM AS-BUILTS AND RECORD DRAWINGS PROVIDED BY UTILITY COMPANIES, G.I.S. INFORMATION AND FIELD VISITS.
- ALL ELEVATIONS ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).
- NATIONAL GEODETIC SURVEY (NGS) BENCHMARK USED:
BENCHMARK 1
DESIGNATION = U-768
DESCRIPTION = SW 168 ST - 103' NORTH OF C.I.L. OLD CUTLER RD - 46' WEST OF C.I.L.
ELEVATION = 12.33' NGVD 29
BENCHMARK 2
DESIGNATION = CD-26-1
DESCRIPTION = SW 168 ST - 14.5' NORTH OF C.I.L. SW 77 AVE - 350'+ WEST OF CUTLER DRAIN CANAL C-100-A
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cma
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786.497.1500
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08/25/2023

CLIENT

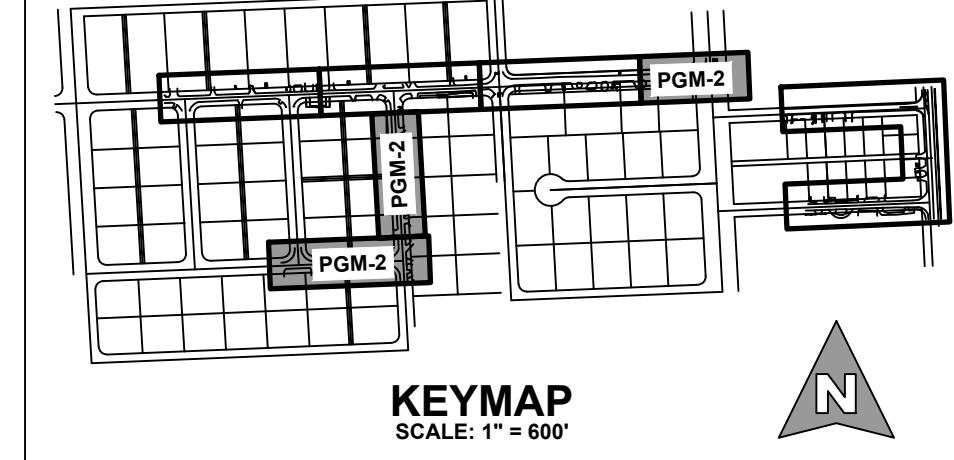
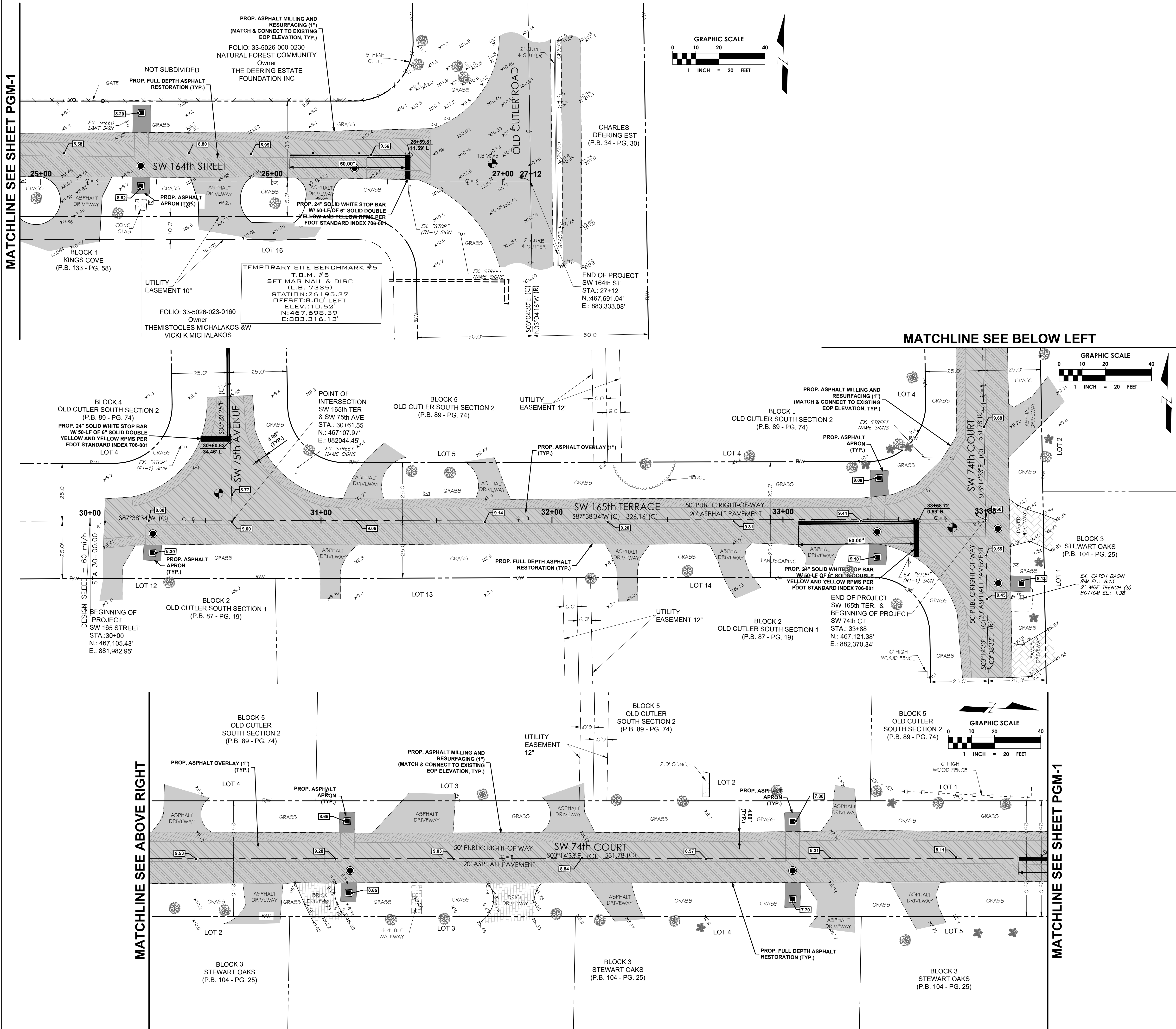
PALMETTO BAY, FL

PROJECT INFORMATION
SUB-BASIN 44 DRAINAGE IMPROVEMENTS
PROJECT NUMBER
21-0513.00001
CLIENT PROJECT NUMBER

VERIFY SCALES
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

REVISIONS
DATE OF ISSUE
AUGUST 2023
DESIGNED BY
HP
DRAWN BY
HP
CHECKED BY
GM
DRAWING TITLE
PAVING, GRADING, MARKING PLAN
DRAWING NUMBER
PGM-1
10 OF 22

BID SET



LEGEND	
	RIGHT-OF-WAY LINE
	PARCEL BOUNDARY
	LOT OR PROPERTY LINE
	CENTER LINE
	EXISTING EDGE OF PAVEMENT
	EXISTING CHAIN OR WIRE FENCE
	EXISTING OVERHEAD ELECTRIC
	EXISTING WATER MAIN
	EXISTING GAS
	EXISTING BURIED COMMUNICATION
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	EXISTING STORM DRAINAGE
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	EXISTING GATE VALVE
	EXISTING SANITARY MANHOLE
	EXISTING CLEANOUT
	EXISTING GAS VALVE
	EXISTING ELEVATION
	EXISTING STREET SIGN POLE
	EXISTING HEDGE LINE
	EXISTING CANOPY TREE
	EXISTING PALM TREE
	EXISTING WOODEN UTILITY POLE
	EXISTING GUY ANCHOR
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	PROPOSED ELEVATION
	PROPOSED SURFACE FLOW ARROW
	PROPOSED CATCH BASIN OR INLET
	PROPOSED STORM MANHOLE
	PROPOSED MILL AND RESURFACE
	PROPOSED ASPHALT OVERLAY
	PROPOSED FULL DEPTH ASPHALT RECONSTRUCTION

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EXISTING CONDITIONS NOTES:

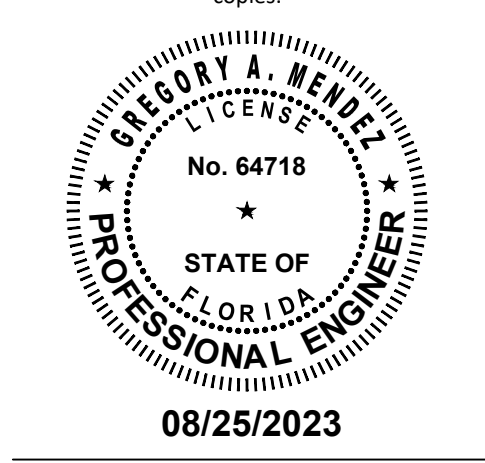
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- NATIONAL GEODETIC SURVEY (NGS) BENCHMARK USED:
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DESIGNATION = U-768
DESCRIPTION = SW 168 ST - 103' NORTH OF C/L OLD CUTLER RD - 46' WEST OF C/L
ELEVATION = 12.33' NGVD 29
BENCHMARK 2
DESIGNATION = CD-26-1
DESCRIPTION = SW 168 ST - 14.5' NORTH OF C/L SW 77 AVE - 350'+ WEST OF CUTLER DRAIN CANAL C-100-A
ELEVATION = 12.08' NGVD 29
- CONTRACTOR IS TO PROTECT ALL EXISTING TREES, SIGNS, AND ABOVE GROUND UTILITIES NOT IMPACTED BY THIS PLAN.

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www.chenmoore.com

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CLIENT

Palmetto Bay, FL

PROJECT INFORMATION

SUB-BASIN 44 DRAINAGE IMPROVEMENTS

PALMETTO BAY, FL

PROJECT NUMBER
21-0513.00001

CLIENT PROJECT NUMBER

VERIFY SCALES

0 1" = 20 FEET

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REVISIONS

DATE OF ISSUE
AUGUST 2023

DESIGNED BY
HP

DRAWN BY
HP

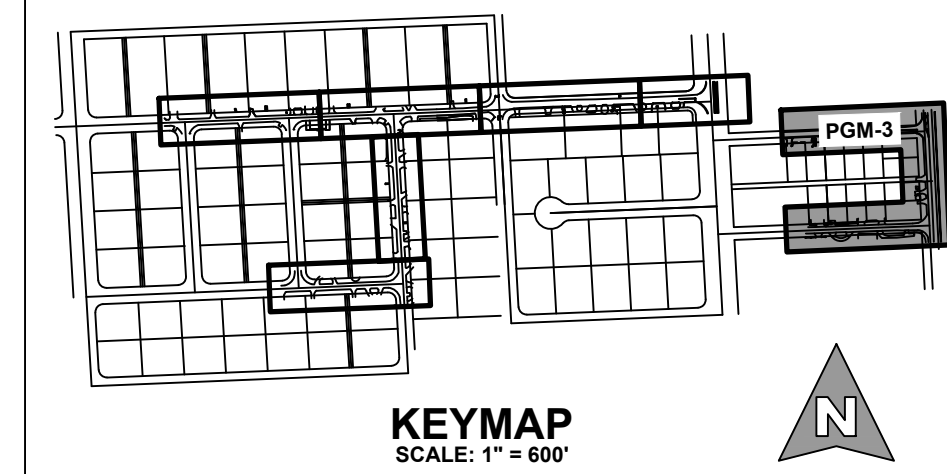
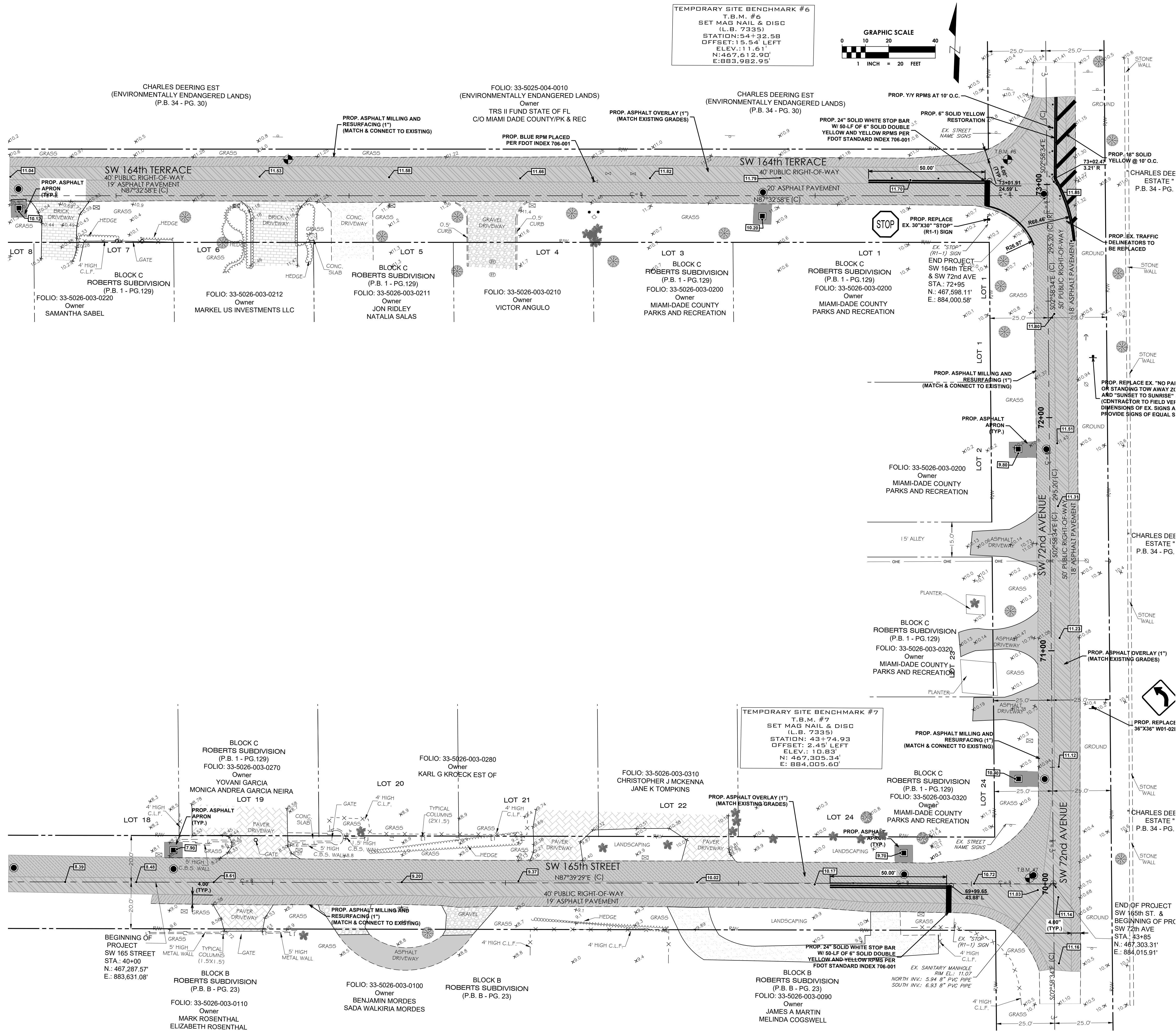
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GM

DRAWING TITLE

PAVING, GRADING, MARKING PLAN

DRAWING NUMBER
PGM-2
11 OF 22

BID SET



LEGEND

---	RIGHT-OF-WAY LINE
---	PARCEL BOUNDARY
---	LOT OR PROPERTY LINE
---	CENTER LINE
---	EXISTING EDGE OF PAVEMENT
---	EXISTING CHAIN OR WIRE FENCE
---	EXISTING OVERHEAD ELECTRIC
---	EXISTING WATER MAIN
---	EXISTING GAS
---	EXISTING BURIED COMMUNICATION
---	EXISTING BURIED FIBER OPTIC
---	EXISTING BURIED TELEVISION
---	EXISTING OVERHEAD ELECTRIC
---	EXISTING STORM DRAINAGE
---	EXISTING CATCH BASIN
---	EXISTING FIRE HYDRANT
---	EXISTING GATE VALVE
---	EXISTING SANITARY MANHOLE
---	EXISTING CLEANOUT
---	EXISTING GAS VALVE
---	EXISTING ELEVATION
---	EXISTING STREET SIGN POLE
---	EXISTING HEDGE LINE
---	EXISTING CANOPY TREE
---	EXISTING PALM TREE
---	EXISTING WOODEN UTILITY POLE
---	EXISTING GUY ANCHOR
---	EXISTING MAILBOX
---	PROPOSED ELEVATION
---	PROPOSED SURFACE FLOW ARROW
---	PROPOSED CATCH BASIN OR INLET
---	PROPOSED STORM MANHOLE
---	PROPOSED MILL AND RESURFACE
---	PROPOSED ASPHALT OVERLAY
---	PROPOSED FULL DEPTH ASPHALT RECONSTRUCTION

PAVING AND GRADING NOTES:

- BEDDING AND INITIAL BACKFILL OVER DRAINAGE PIPE SHALL BE SAND WITH NO ROCK LARGER THAN 1" DIAMETER.
- BACKFILL MATERIAL UNDER PAVED AREAS SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
- BACKFILL MATERIAL UNDER AREAS NOT TO BE PAVED SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
- CONTRACTOR TO PROVIDE DETAILED AS-BUILTS SURVEYS THAT CLEARLY DEFINE THE AREAS OF WORK COMPLETED UNDER THIS CONTRACT INCLUDING BUT NOT LIMITED TO ALL RIM ELEVATIONS (EXISTING AND PROPOSED STRUCTURES), ALL INVERTS, BOTTOM OF STRUCTURE, SUFFICIENT SWALE ELEVATIONS TO DEMONSTRATE THAT SWALES DRAIN TO INLETS, LOCATION OF EXFILTRATION TRENCH, LOCATION OF DRIVEWAY RESTORATION, AND RESTORED ASPHALT PAVEMENT.

EXISTING CONDITIONS NOTES:

- EXISTING CONDITIONS PRESENTED ARE BASED ON A TOPOGRAPHIC SURVEY PROVIDED BY LONGITUDE SURVEYORS LLC, PROJECT NO. 22056.0.01 AND DATED 03/30/2022. ADDITIONAL INFORMATION WAS OBTAINED FROM AS-BUILTS AND RECORD DRAWINGS PROVIDED BY UTILITY COMPANIES, G.I.S. INFORMATION AND FIELD VISITS.
- ALL ELEVATIONS ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).
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BENCHMARK 1
DESIGNATION = U-768
DESCRIPTION = SW 168 ST - 103' NORTH OF C/L OLD CUTLER RD - 46' WEST OF C/L
ELEVATION = 12.33' NGVD 29
BENCHMARK 2
DESIGNATION = CD-26-1
DESCRIPTION = SW 168 ST - 14.5' NORTH OF C/L SW 77 AVE - 350'+ WEST OF CUTLER DRAIN CANAL C-100-A
ELEVATION = 12.08' NGVD 29
- CONTRACTOR IS TO PROTECT ALL EXISTING TREES, SIGNS, AND ABOVE GROUND UTILITIES NOT IMPACTED BY THIS PLAN.



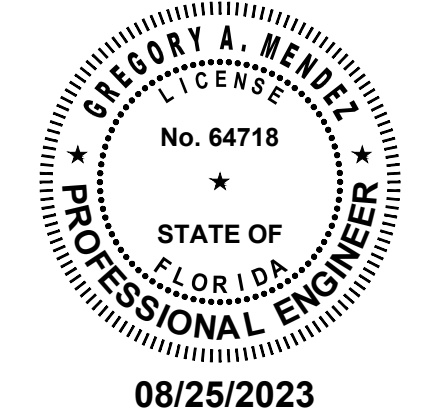
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CLIENT



PROJECT INFORMATION

SUB-BASIN 44 DRAINAGE IMPROVEMENTS

PALMETTO BAY, FL

PROJECT NUMBER

21-0513.00001

CLIENT PROJECT NUMBER

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DATE OF ISSUE

AUGUST 2023

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HP

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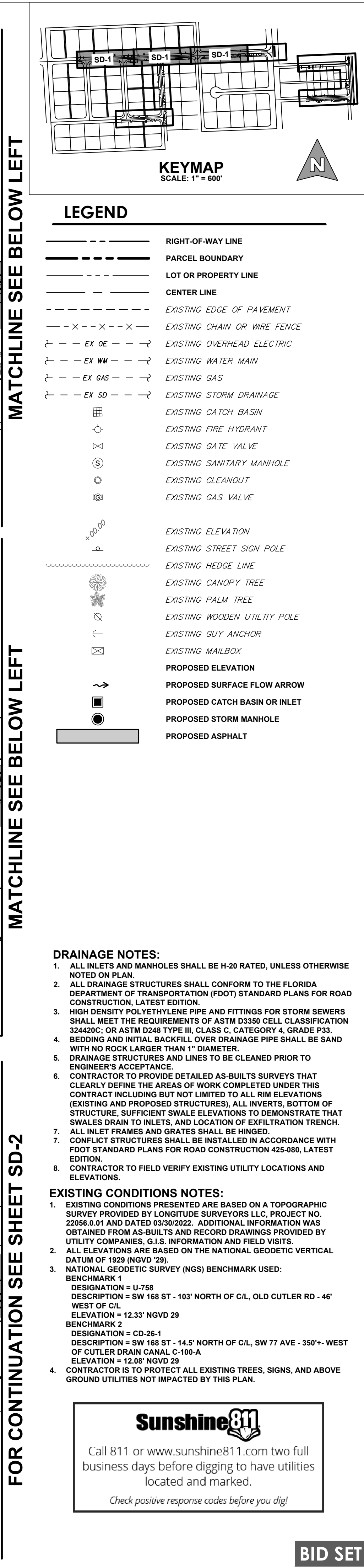
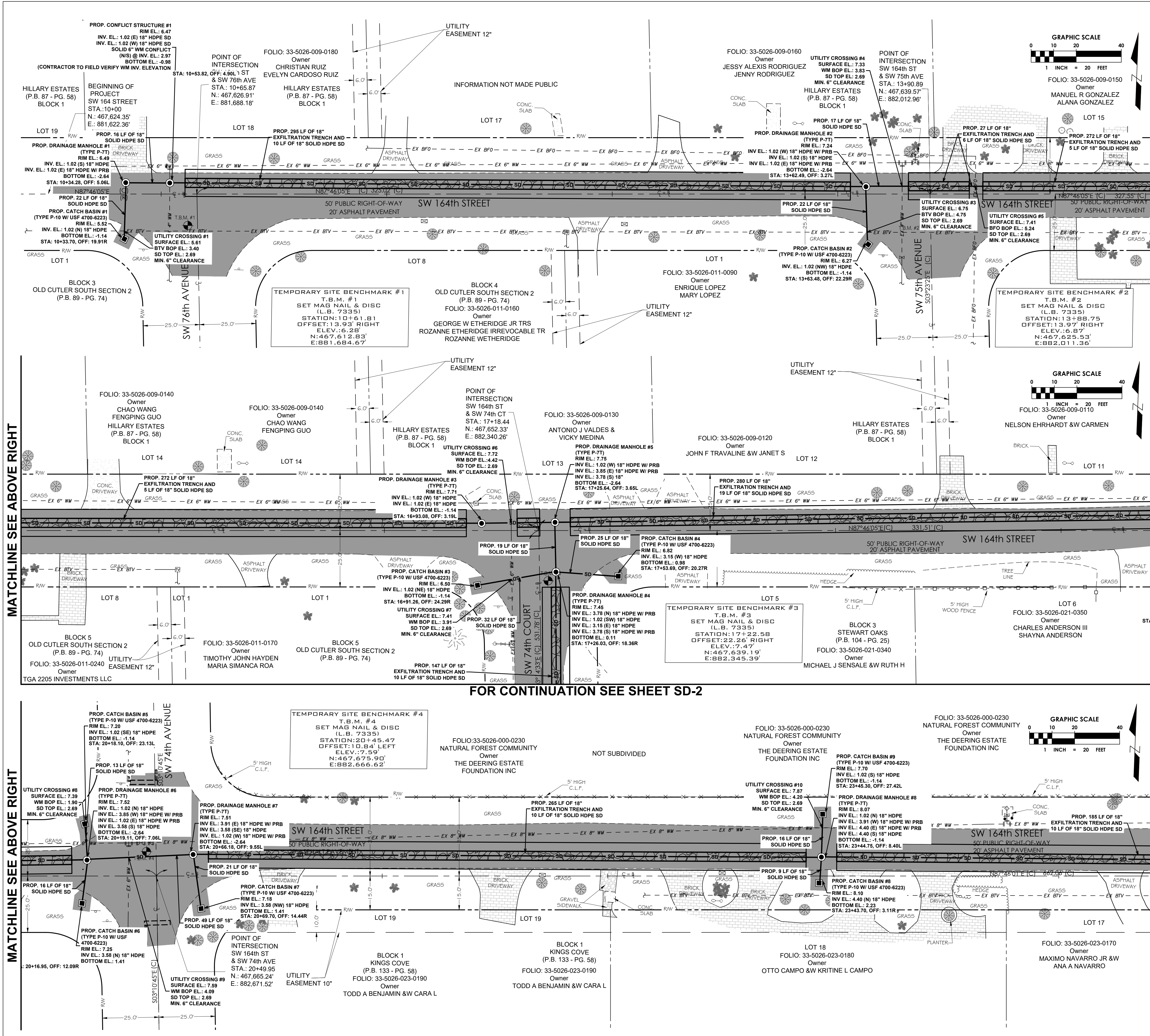
DRAWING TITLE

PAVING,
GRADING,
MARKING PLAN

DRAWING NUMBER

PGM-3
12 OF 22

BID SET



cma
chen moore and associates

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GREGORY A. MENDEZ
LICENSE
No. 64718
STATE OF FLORIDA
PROFESSIONAL ENGINEER
08/25/2023

CLIENT
PALMETTO BAY, FL

PROJECT INFORMATION
SUB-BASIN 44
DRAINAGE IMPROVEMENTS

PROJECT NUMBER
21-0513.00001

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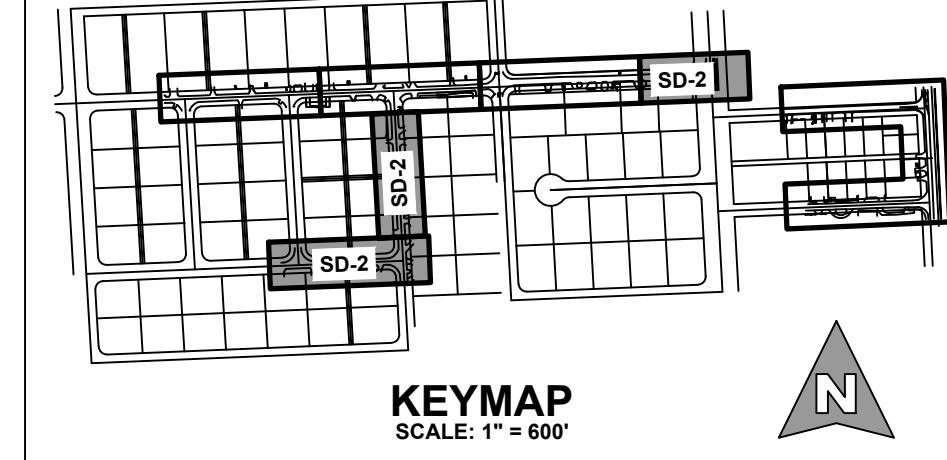
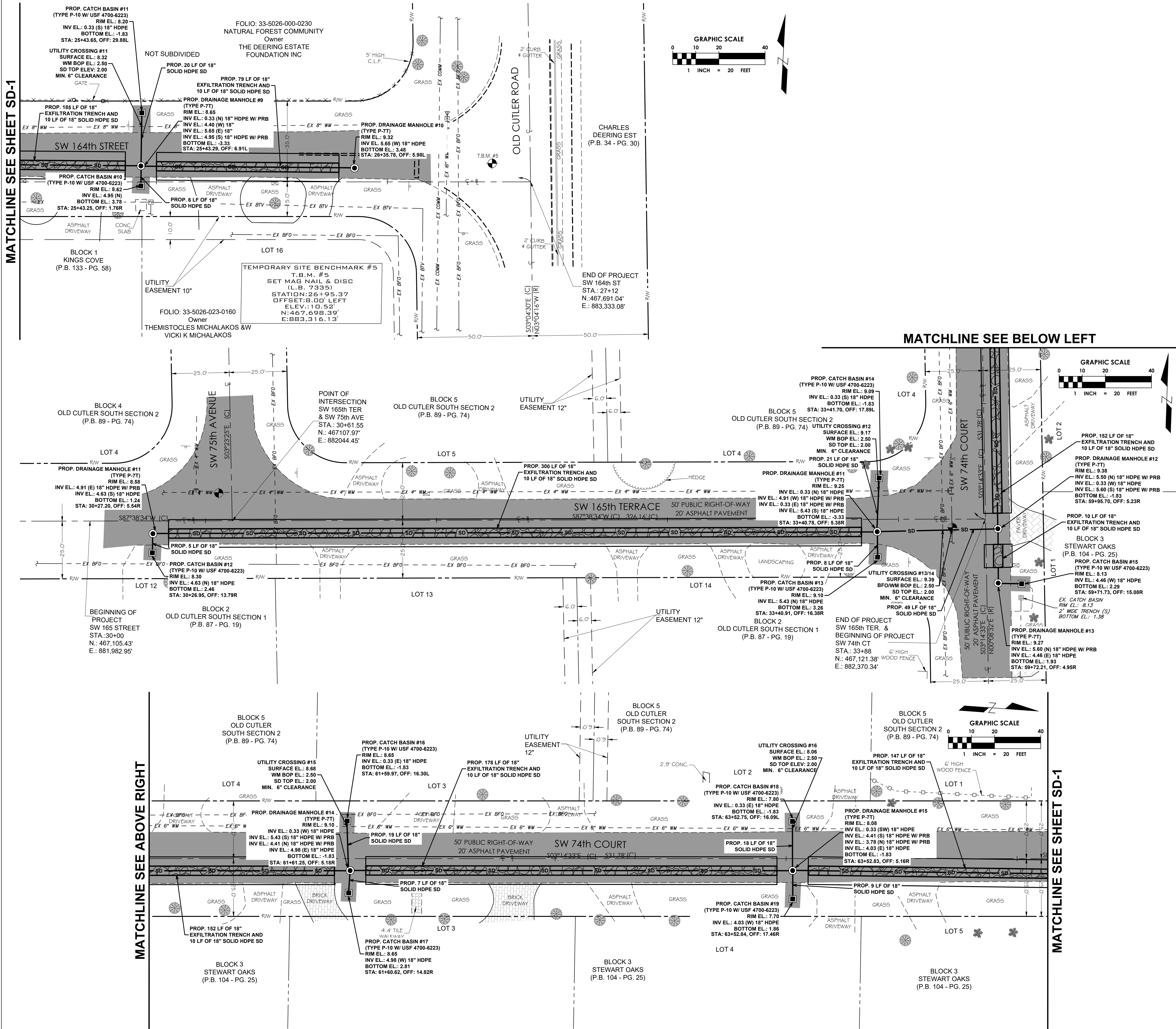
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- CONTRACTOR IS TO PROTECT ALL EXISTING TREES, SIGNS, AND ABOVE GROUND UTILITIES NOT IMPACTED BY THIS PLAN.

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STORM DRAINAGE PLAN

DRAWING NUMBER
SD-1
13 OF 22



LEGEND	
	RIGHT-OF-WAY LINE
	PARCEL BOUNDARY
	LOT OR PROPERTY LINE
	CENTER LINE
	EXISTING EDGE OF PAVEMENT
	EXISTING CHAIN OR WIRE FENCE
	EXISTING OVERHEAD ELECTRIC
	EXISTING WATER MAIN
	EXISTING GAS
	EXISTING STORM DRAINAGE
	EXISTING CATCH BASIN
	EXISTING FIRE HYDRANT
	EXISTING GATE VALVE
	EXISTING SANITARY MANHOLE
	EXISTING CLEANOUT
	EXISTING GAS VALVE
	PROPOSED ELEVATION
	PROPOSED SURFACE FLOW ARROW
	PROPOSED CATCH BASIN OR INLET
	PROPOSED STORM MANHOLE
	PROPOSED ASPHALT

- DRAINAGE NOTES:**
- ALL INLETS AND MANHOLES SHALL BE H-20 RATED, UNLESS OTHERWISE NOTED ON PLAN.
 - ALL DRAINAGE STRUCTURES SHALL CONFORM TO THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD PLANS FOR ROAD CONSTRUCTION, LATEST EDITION.
 - HIGH DENSITY POLYETHYLENE PIPE AND FITTINGS FOR STORM SEWERS SHALL MEET THE REQUIREMENTS OF ASTM D3336 CELL CLASSIFICATION 3242BC, OR ASTM D2412 TYPE III, CLASS C, CATEGORY 4, GRADE P33.
 - BEDDING AND INITIAL BACKFILL OVER DRAINAGE PIPE SHALL BE SAND WITH NO ROCK LARGER THAN 1" DIAMETER.
 - DRAINAGE STRUCTURES AND LINES TO BE CLEANED PRIOR TO ENGINEER'S ACCEPTANCE.
 - CONTRACTOR TO PROVIDE DETAILED AS-BUILTS SURVEYS THAT CLEARLY DEFINE THE AREAS OF WORK COMPLETED UNDER THIS CONTRACT INCLUDING BUT NOT LIMITED TO ALL RIM ELEVATIONS (EXISTING AND PROPOSED STRUCTURES), ALL INVERTS, BOTTOM OF STRUCTURE, SUFFICIENT SWALE ELEVATIONS TO DEMONSTRATE THAT SWALES DRAIN TO INLETS, AND LOCATION OF EXFILTRATION TRENCH.
 - ALL INLET FRAMES AND GRATES SHALL BE HINGED.
 - CONFLICT STRUCTURES SHALL BE INSTALLED IN ACCORDANCE WITH FDOT STANDARD PLANS FOR ROAD CONSTRUCTION 425-080, LATEST EDITION.
 - CONTRACTOR TO FIELD VERIFY EXISTING UTILITY LOCATIONS AND ELEVATIONS.
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DESIGNATION = U-758
DESCRIPTION = SW 168 ST - 103' NORTH OF C/L, OLD CUTLER RD - 46' WEST OF C/L
ELEVATION = 12.33' NGVD 29
BENCHMARK 2
DESIGNATION = CD-26-1
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08/25/2023

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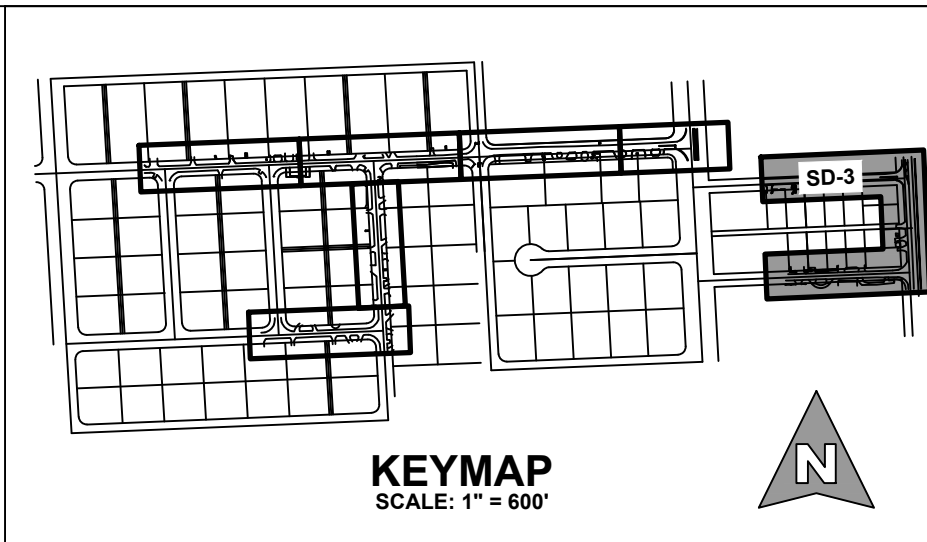
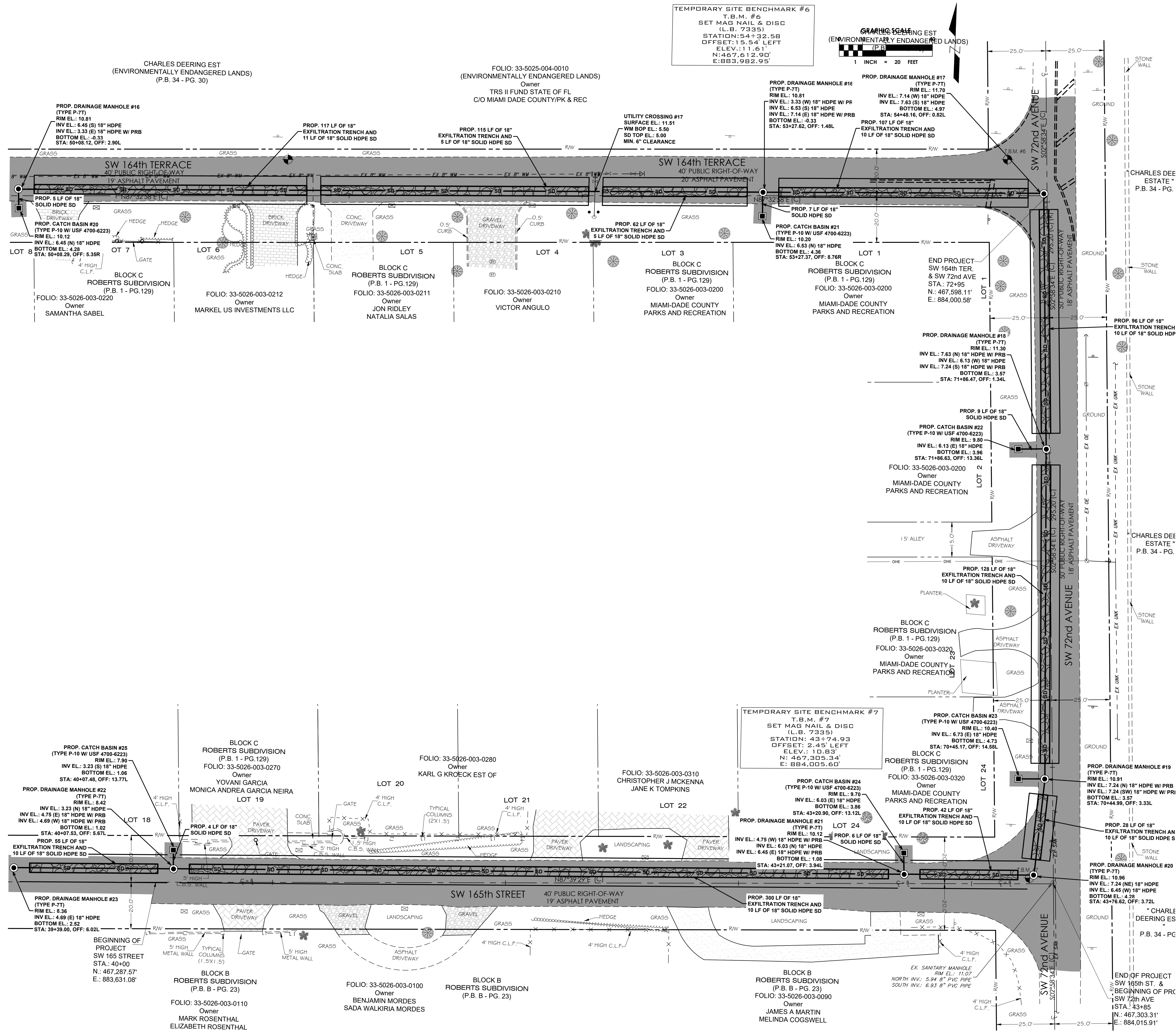
VILLAGE OF
Palmetto Bay
FLORIDA
Est. 2003

PROJECT INFORMATION
**SUB-BASIN 44
DRAINAGE
IMPROVEMENTS**
PALMETTO BAY, FL
**PROJECT NUMBER
21-0513.00001**

CLIENT PROJECT NUMBER
VERIFY SCALES
0 1"
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ADJUST SCALES ACCORDINGLY
REVISIONS

DATE OF ISSUE
AUGUST 2023
DESIGNED BY
HP
DRAWN BY
HP
CHECKED BY
GM
DRAWING TITLE

**STORM
DRAINAGE PLAN**
DRAWING NUMBER
SD-2
14 OF 22



LEGEND	
	RIGHT-OF-WAY LINE
	PARCEL BOUNDARY
	LOT OR PROPERTY LINE
	CENTER LINE
	EXISTING EDGE OF PAVEMENT
	EXISTING CHAIN OR WIRE FENCE
	EXISTING OVERHEAD ELECTRIC
	EXISTING WATER MAIN
	EXISTING GAS
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 - DRAINAGE STRUCTURES AND LINES TO BE CLEANED PRIOR TO ENGINEER'S ACCEPTANCE.
 - CONTRACTOR TO PROVIDE DETAILED AS-BUILTS SURVEYS THAT CLEARLY DEFINE THE AREAS OF WORK COMPLETED UNDER THIS CONTRACT INCLUDING BUT NOT LIMITED TO ALL RIM ELEVATIONS (EXISTING AND PROPOSED STRUCTURES), ALL INVERTS, BOTTOM OF STRUCTURE, SUFFICIENT SWALE ELEVATIONS TO DEMONSTRATE THAT SWALES DRAIN TO INLETS, AND LOCATION OF EXFILTRATION TRENCH.
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DESIGNATION = CD-26-1
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PROJECT INFORMATION

SUB-BASIN 44 DRAINAGE IMPROVEMENTS

PALMETTO BAY, FL

PROJECT NUMBER
21-0513.00001

CLIENT PROJECT NUMBER

VERIFY SCALES
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REVISIONS

DATE OF ISSUE
AUGUST 2023

DESIGNED BY
HP

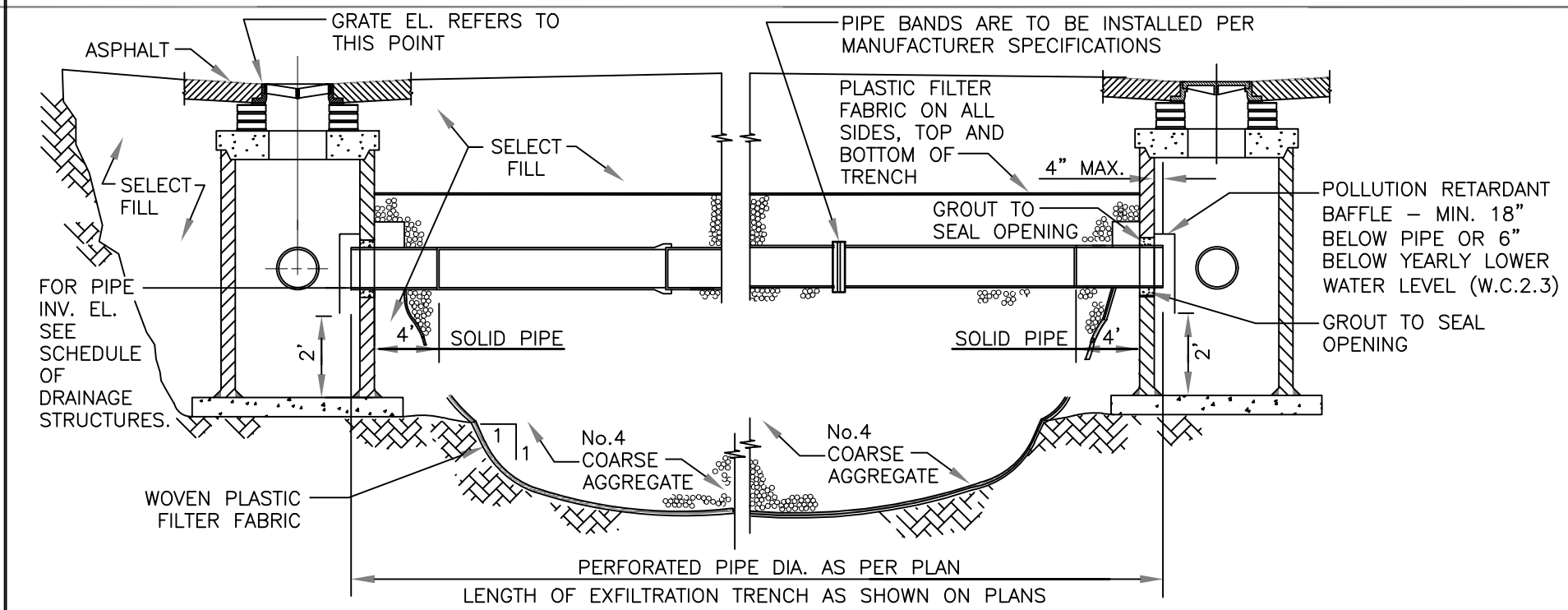
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GM

DRAWING TITLE
STORM DRAINAGE PLAN

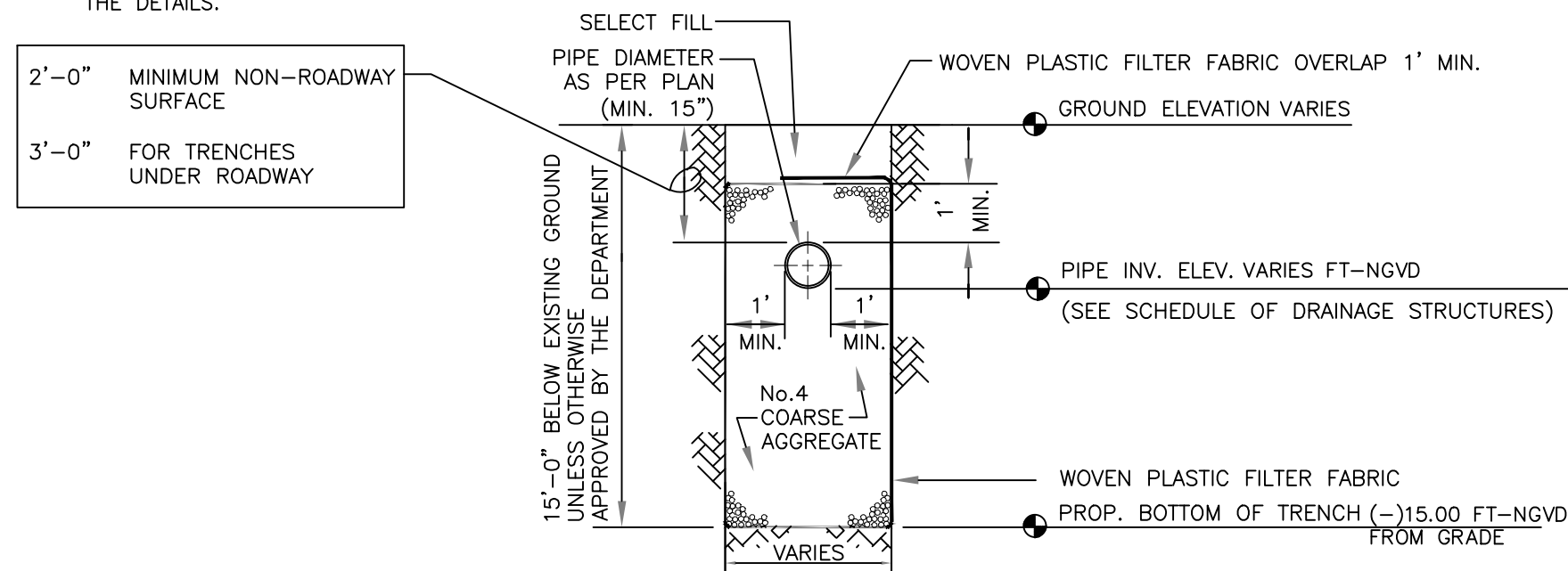
DRAWING NUMBER
SD-3

15 OF 22



NOTE

1-AFTER THE COARSE AGGREGATE HAS BEEN PLACED TO THE PROPER ELEVATION IT SHALL BE CAREFULLY WASHED DOWN WITH CLEAN WATER, OR TAMPERED, TO ALLOW FOR INITIAL SETTLEMENT THAT MAY OCCUR. IF SETTLEMENT DOES TAKE PLACE, ADDITIONAL No.4 COARSE AGGREGATE SHALL BE ADDED TO RESTORE THE PROPER ELEVATION SO THAT THE EXFILTRATION TRENCH IS COMPLETED IN ACCORDANCE WITH THE DETAILS.



ALT. TRANS. SECTION*

* MAY BE USED IN AREAS WHERE TRENCH WALLS WILL NOT STAND VERTICAL, OR WHERE CAVE-IN BELOW THE WATER TABLE IS LIKELY TO OCCUR. TO BE USED AT THE ENGINEER'S DISCRETION.

NOTES (CONTINUED ON NEXT PAGE)

1. PLASTIC FILTER FABRIC SHALL BE WOVEN MONOFILAMENT POLYPROPYLENE GEOTEXTILE. PERMITTIVITY SHALL BE GREATER THAN 0.50 SEC AND FLOW RATE GREATER OR EQUAL TO 50 gal/min.
2. MAXIMUM EXFILTRATION RATE WHICH CAN BE USED IN CALCULATING FRENCH DRAIN LENGTH IS 0.1 cfs/ft.

MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	APPROVED 04/16/2015	REVISED 02/08/2011 09/26/2012 10/19/2012	STANDARD STORM DRAINAGE DETAIL EXFILTRATION TRENCH (FRENCH DRAIN)	SD 1.1 SHEET 1 OF 2
--	------------------------	---	--	---------------------------

NOTES CONTINUED

3. THE MINIMUM PIPE DIAMETER FOR DRAINAGE SYSTEM WITHIN THE ROADWAY RIGHT-OF-WAY SHALL BE 18 INCHES. 15 INCH PIPE MAY BE USED IN PRIVATE ROADWAYS.
4. NO TREES TO BE PLANTED WITHIN 5 FEET OF THE EDGE OF THE TRENCH.
5. TYPE "P" S.D. 2.6 STRUCTURE IS RECOMMENDED FOR SMALL DRAINAGE AREAS LESS THAN 0.2 ACRE PER CATCH BASIN.
6. TYPE "L" S.D. 2.6 STRUCTURE IS RECOMMENDED FOR AREAS LARGER THAN 0.2 ACRE.
7. ALL INVERTS OF PERFORATED PIPES TO BE AT MEAN HIGH OCTOBER WATER TABLE W.C. 2.2.
8. PIPES CAN BE ALLOWED BELOW MEAN HIGH OCTOBER WATER TABLE DUE TO UTILITY CONFLICTS OR IN ORDER TO PROVIDE THE REQUIRED MINIMUM COVER.
9. NEOPRENE GASKET REQUIRED FOR BAFFLES ON ALL CONTACT EDGES MOUNTED ON WALL.
10. OIL AND GREASE BAFFLE IS REQUIRED FOR ALL DRAINAGE STRUCTURES PRECEDING AN OUTFALL OR EXFILTRATION TRENCHES, IN PROJECTS LOCATED IN WELLFIELD PROTECTION AREAS, ROAD INTERSECTIONS WITH TRAFFIC LIGHTS, AND LARGE PARKING LOTS WHICH INCLUDE 15 PARKING SPACES OR MORE.
11. OIL AND GREASE BAFFLE MAY BE WAIVED IN SUBURBAN RESIDENTIAL AREAS.

GENERAL NOTES FOR PIPE CULVERTS

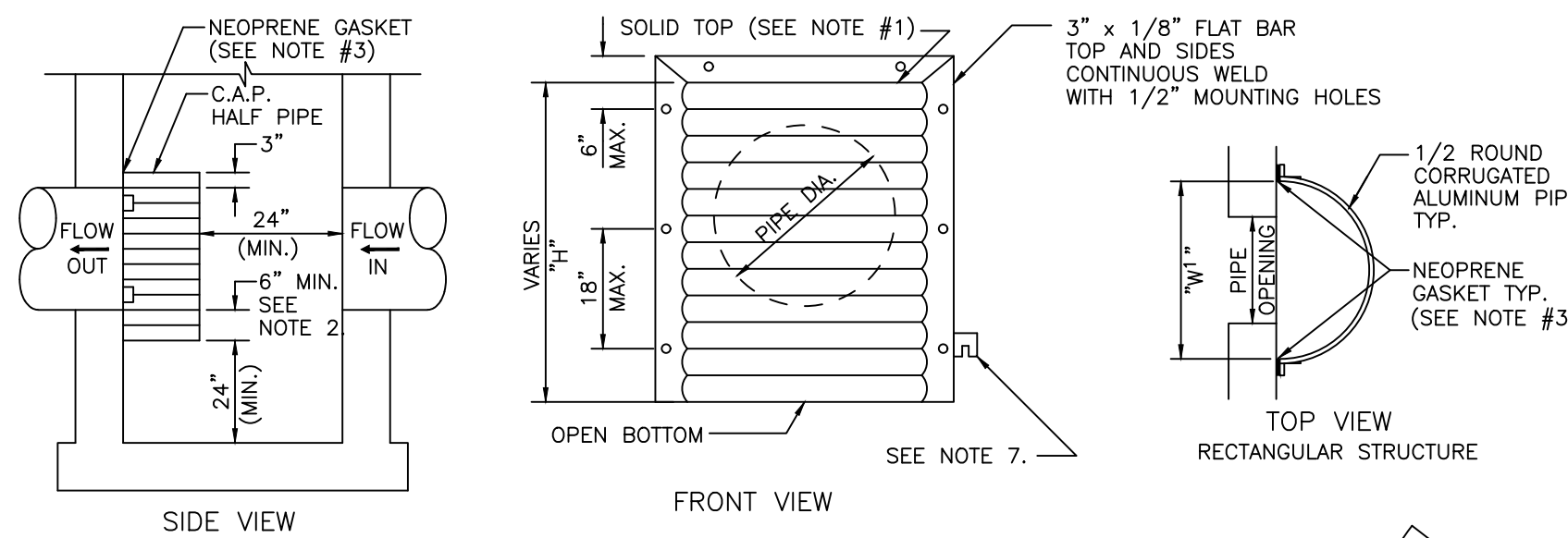
CONTRACTOR HAS THE OPTION OF INSTALLING ANY PIPE MEETING THE REQUIREMENTS OF SECTION 443-2 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AS LONG AS THE MANUFACTURER IS LISTED, AT THE TIME OF PIPE INSTALLATION, IN FDOT'S LIST OF PRODUCERS WITH ACCEPTED QUALITY CONTROL PROGRAMS. PIPES WITH LESS THAN A 100-YEAR CERTIFICATION CANNOT BE USED ON SECTION LINE, HALF SECTION LINE, COLLECTOR ROADWAYS, AND ARTERIALS. 50-YEAR PIPE CERTIFICATION REQUIRED FOR ALL OTHER MINOR/LOCAL ROADWAYS.

MINIMUM NUMBER OF PERFORATION IN PIPE CULVERTS		
PIPE DIAMETER (inches)	OUTER SHELL	LINER
	No. of 3/8" Dia. Holes (PER LIN. FT. OF PIPE)	No. of 3/8" Dia. Holes (PER LIN. FT. OF PIPE)
15	100	50

NOTE:

PERFORATIONS SHALL BE UNIFORMLY SPACED AROUND THE FULL PERIPHERY OF THE PIPE TO WITHIN 4" OF EACH END OF EACH LENGTH OF PIPE. THE NUMBER OF PERFORATIONS PER LINEAR FOOT OF PIPE AND THE DIAMETER OF THE PERFORATIONS SHALL BE AS SHOWN ON THE ABOVE TABLE.

MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	APPROVED 04/16/2015	REVISED 06-04-86 10-22-13 05-02-81	STANDARD STORM DRAINAGE DETAIL EXFILTRATION TRENCH (PIPE CULVERT NOTES)	SD 1.1 SHEET 2 OF 2
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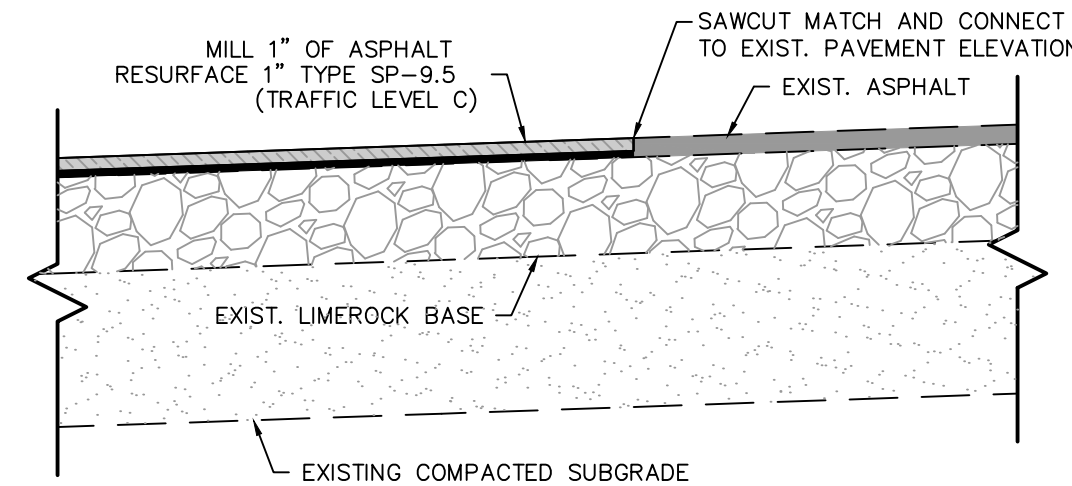
NOTES:

1. ALUMINUM SHEET OF SAME THICKNESS (GAUGE) AS PIPE SHALL BE WELDED TO CLOSE OPENING AT THE TOP.
2. THE BOTTOM ELEVATION OF THE POLLUTION RETARDANT BAFFLE MUST BE AT LEAST 2' BELOW CONTROL ELEVATION.
3. NEOPRENE ADHESIVE BACKED GASKET, OR APPROVED EQUAL (1" x 2") SHALL BE INSTALLED ON THE SIDES AND TOP OF ALL BAFFLES.
4. POLLUTION RETARDANT BAFFLE TO BE FASTENED IN PLACE WITH 3/8"x4" STAINLESS STEEL "RED HEADS", OR APPROVED EQUAL.
5. ALL EXFILTRATION TRENCHES SHALL HAVE A POLLUTION RETARDANT BAFFLE AT EACH CONNECTION POINT TO A STRUCTURE (SEE EXFILTRATION TRENCH DETAIL).
6. FIBERGLASS BAFFLES ARE NOT PERMITTED.
7. MOUNTING BRACKETS MAY BE ADDED TO FLAT BARS TO EASE INSTALLATION IN ROUND STRUCTURES. SPACING TO MATCH HOLES IN FLAT BARS.

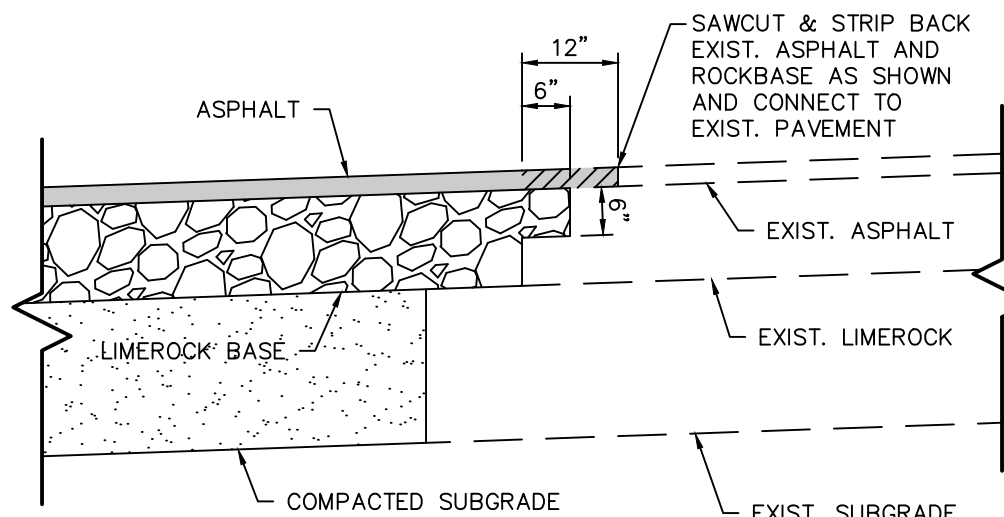
PIPE DIA.	W ¹ (IN)	W ² (IN)	T (GAUGE)	H (IN)
15"	21"	21"	16	VARIES
18"	24"	24"	16	VARIES
21"	30"	30"	16	VARIES
24"	30"	36"	16	VARIES
30"	36"	42"	14	VARIES
36"	42"	48"	14	VARIES
42"	48"	54"	14	VARIES
48"	54"	60"	14	VARIES
54"	60"	66"	14	VARIES

1. RECTANGULAR STRUCTURE
2. ROUND STRUCTURE

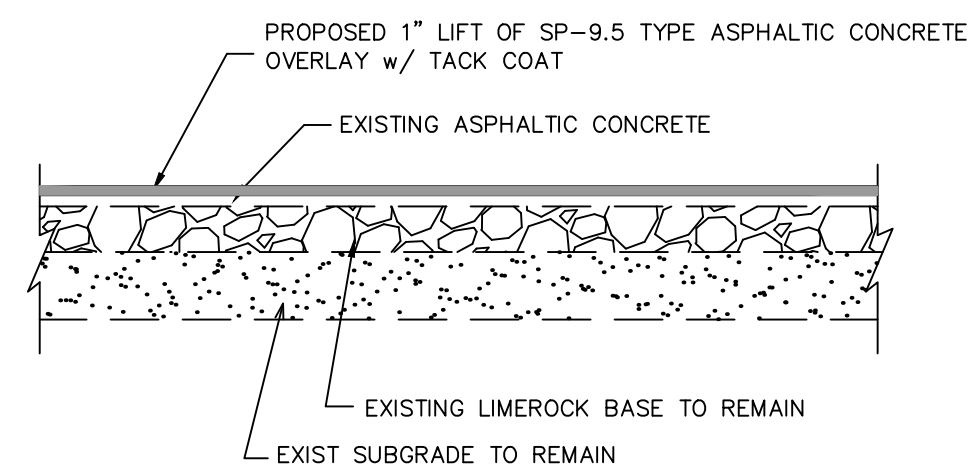
POLLUTION RETARDANT BAFFLE
N.T.S.



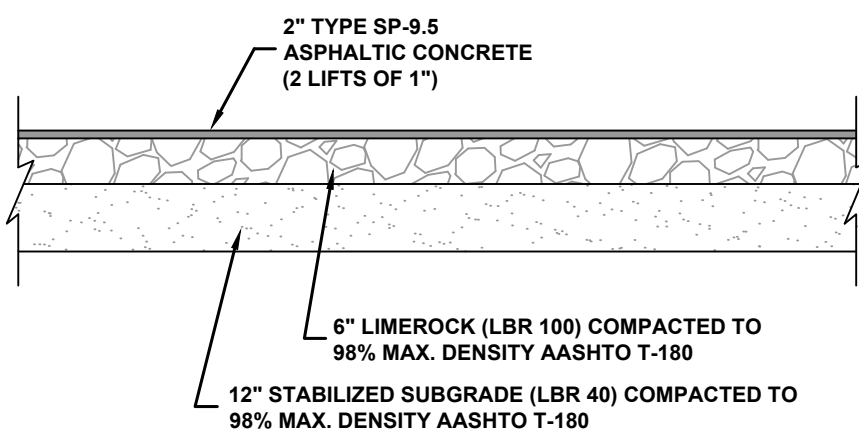
MILLING AND RESURFACING DETAIL
N.T.S.



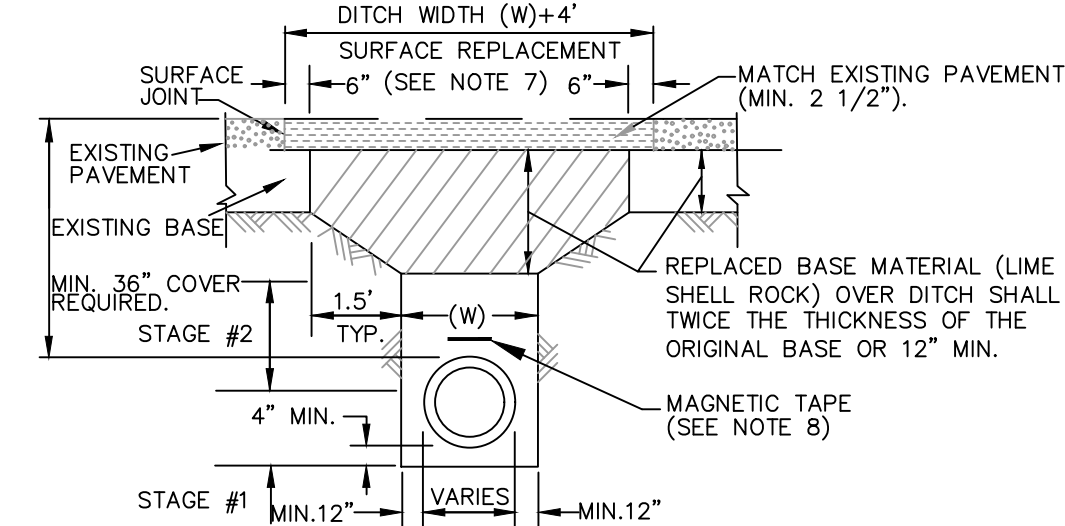
CONNECTION TO EXISTING PAVEMENT DETAIL
N.T.S.



OVERLAY PAVEMENT SECTION
N.T.S.



FULL DEPTH PAVEMENT SECTION
N.T.S.



GENERAL NOTES:

1. SEE NOTES FOR TYPICAL TRENCH DETAIL FOR BACKFILL AND BEDDING MATERIAL SPECIFICATIONS.
2. BASE MATERIAL SHALL BE PLACED IN 6" LAYERS AND EACH LAYER COMPACTED TO 98% OF MAXIMUM DENSITY PER AASHTO T-180.
3. ASPHALT CONCRETE PAVEMENT JOINTS SHALL BE MECHANICALLY SAWED (BUTT JOINTS ONLY).
4. SURFACE MATERIAL WILL BE CONSISTENT WITH THE EXISTING SURFACE. THE AFFECTED AREA SHALL BE RESTORED TO EQUAL OR BETTER CONDITION.
5. RESPONSIBILITY FOR COMPLIANCE REGARDING ANY ADDITIONAL SPECIFICATIONS AS REQUIRED BY THE PROPERTY OWNER (AGENCIES, CITY, ETC.....) SHALL BE ASSUMED.
6. EXCAVATABLE "FLOWABLE FILL" WITH ULTIMATE COMPRESSIVE STRENGTH BETWEEN 50 AND 150 PSI MAY BE USED TO SUBSTITUTE FOR THE BACKFILL AND BASE MATERIALS.
7. PAVEMENT OVERLAY ON BOTH SIDES OF THE CUT MAYBE REQUIRED PER OWNER SPECIFICATION.
8. COMPLIANCE WITH APPLICABLE TRENCH SAFETY REGULATIONS (OSHA, ETC.) SHALL BE PRACTICED.

DENSITY PROCEDURES:

THE BACKFILL FOR THE FIRST AND SECOND STAGES SHALL BE PLACED IN 6" LAYERS (COMPACTED THICKNESS) AND SHALL BE COMPACTED TO 100% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99.

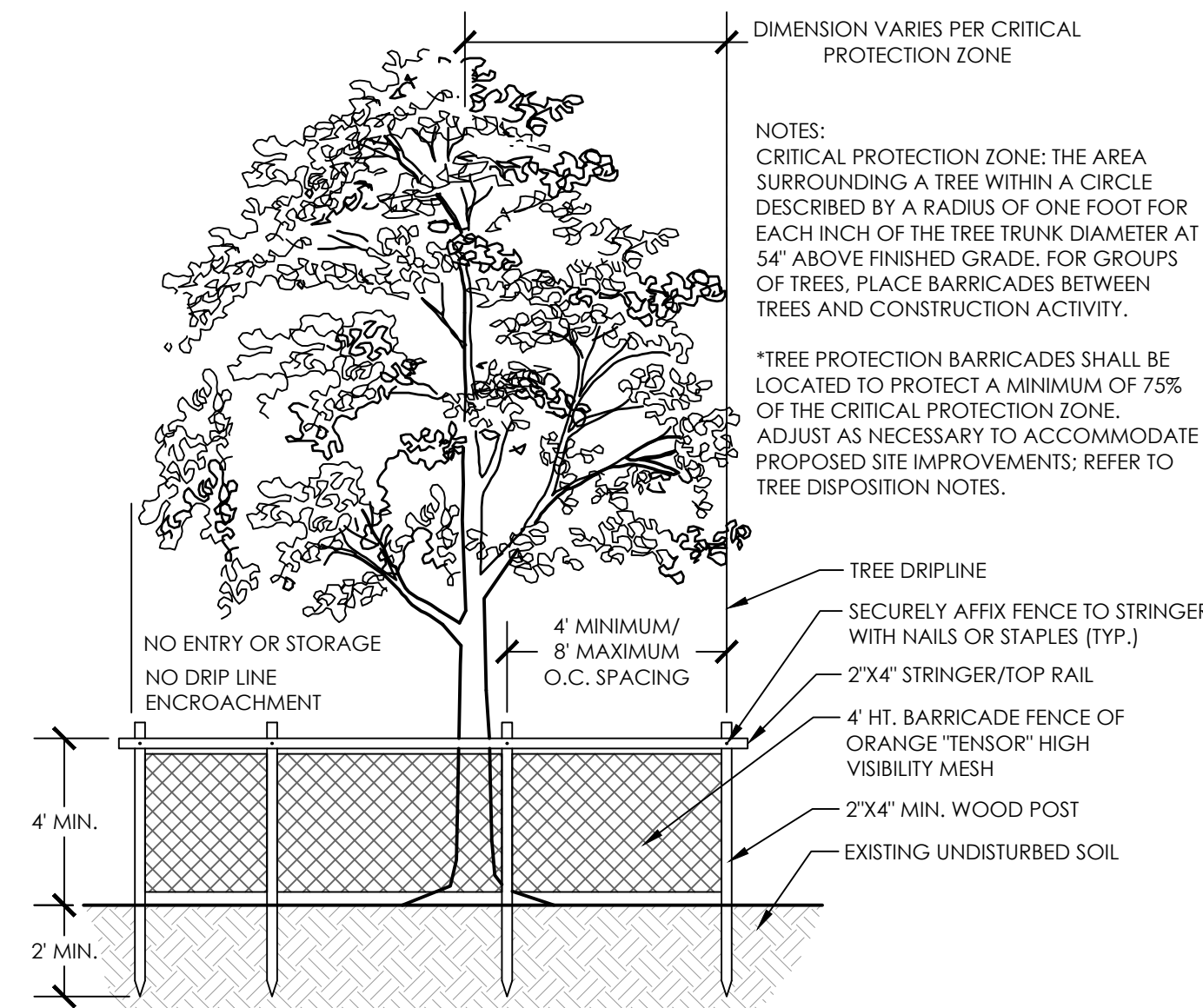
STAGE #1

ADEQUATE COMPACTED FILL BENEATH THE HAUNCHES OF THE PIPE SHALL BE PROVIDED, USING MECHANICAL TAMPERS SUITABLE FOR THIS PURPOSE. THIS COMPACTION APPLIES TO THE MATERIAL PLACED BENEATH THE HAUNCHES OF THE PIPE AND ABOVE ANY BEDDING REQUIRED.

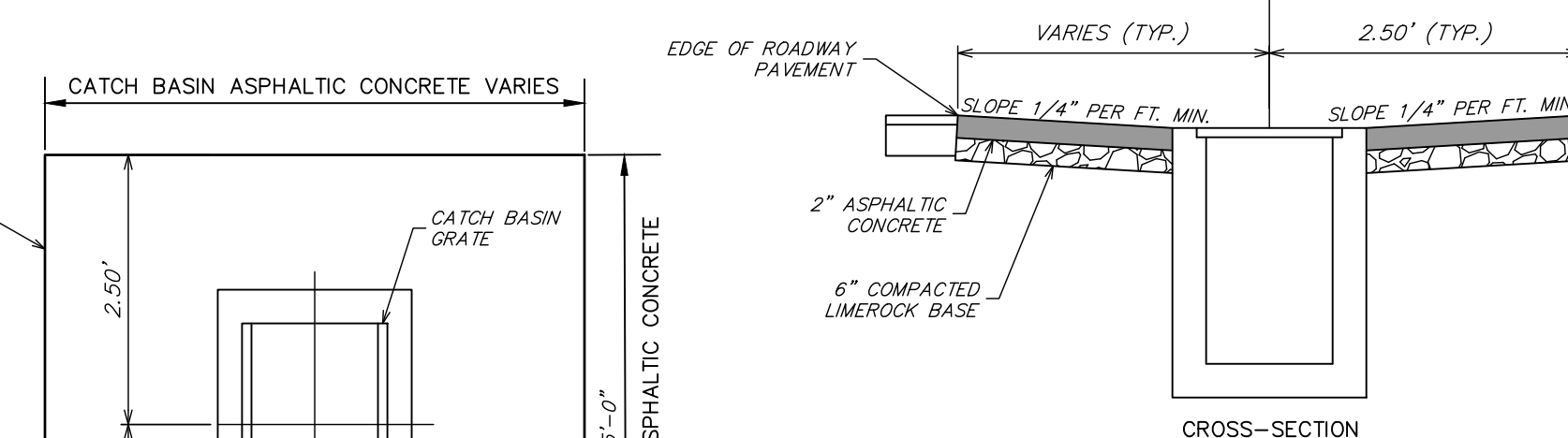
STAGE #2

A WELL COMPACTED BED AND FILL ALONG THE SIDES OF THE PIPE WILL BE OBTAINED TO A POINT INDICATING THE TOP OF SUB-GRADE MATERIAL.

TRENCH UNDER EXIST PAVEMENT
(OPEN CUT PAVEMENT REPLACEMENT)
N.T.S.



TREE PRESERVATION FENCING
1/4" = 1'-0"



NOTES:

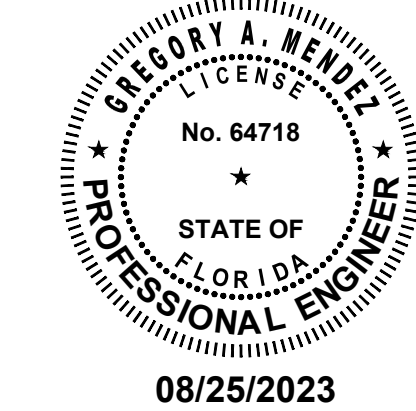
1. FRAME ELEVATIONS SHALL BE AT LEAST 3" BELOW SWALE ELEVATIONS.
2. FRAME ELEVATION SHALL BE AT LOW POINT OF CATCH BASIN APRON.
3. INSTALL CATCH BASIN APRON AROUND EACH PROPOSED CATCH BASIN AND ANY EXISTING CATCH BASIN THAT IS SHOWN TO REMAIN.
4. LIMEROCK BASE TO BE COMPACTED TO 98% WITH A MIN. LBR OF 100.

ASPHALTIC CONCRETE CATCH BASIN APRON DETAIL
N.T.S.

REGISTRATION

This item has been digitally signed and sealed by GREGORY A. MENDEZ, PE, on the date adjacent to the seal.

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CLIENT



PROJECT INFORMATION

SUB-BASIN 44
DRAINAGE
IMPROVEMENTS

PALMETTO BAY, FL

PROJECT NUMBER
21-0513.00001

CLIENT PROJECT NUMBER

VERIFY SCALES

0 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

REVISIONS

DATE OF ISSUE

AUGUST 2023

DESIGNED BY

HP

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HP

CHECKED BY

GM

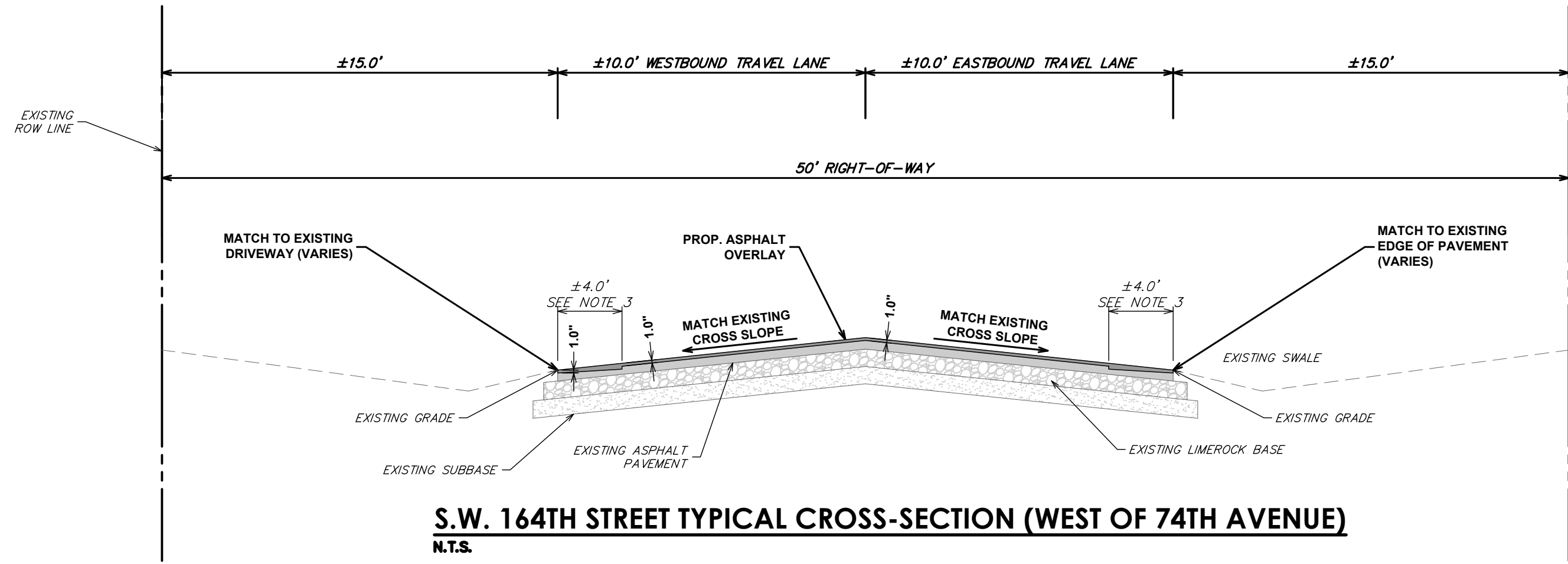
DRAWING TITLE

PAVING AND
DRAINAGE
DETAILS

DRAWING NUMBER

PDD-1
16 OF 22

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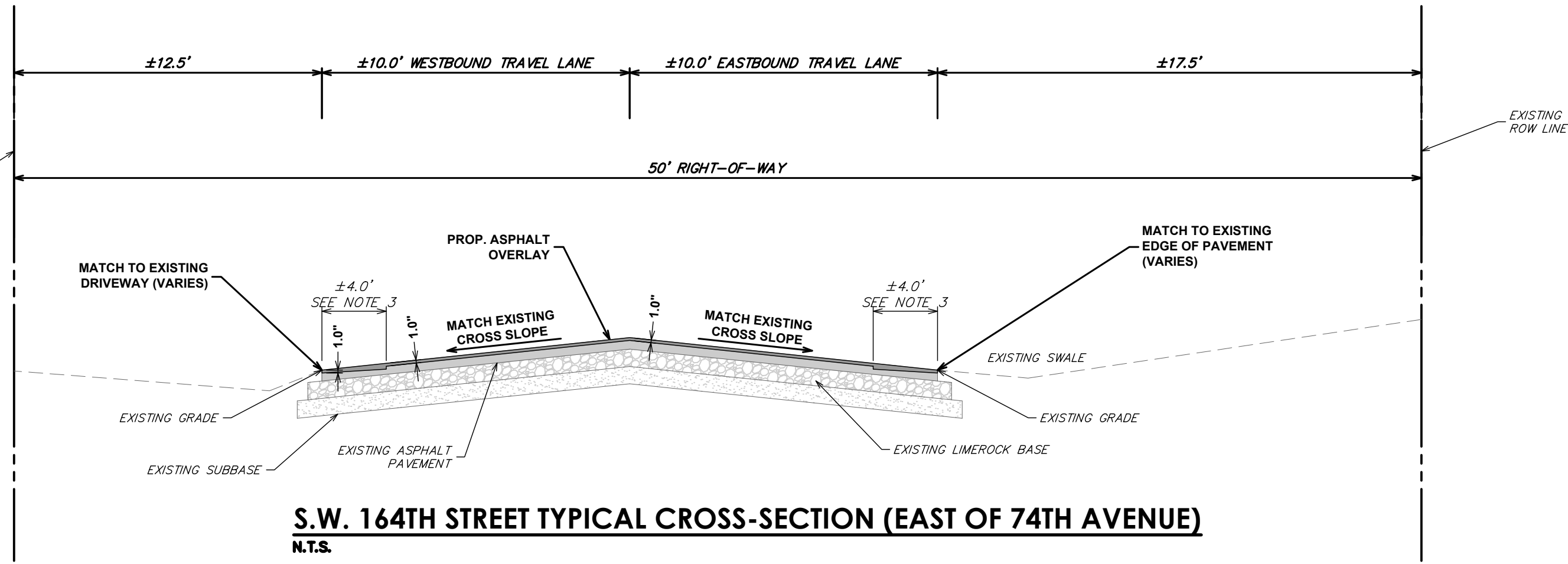


S.W. 164TH STREET TYPICAL CROSS-SECTION (WEST OF 74TH AVENUE)

N.T.S.

OVERLAY:

1. OVERLAY WITH FDOT TYPE SP-9.5 (FINE MIX) ASPHALTIC CONCRETE COURSE (1" MIN. THICKNESS).
2. PLEASE REFER TO GENERAL NOTES, APPLICABLE CODES, AND GEOTECHNICAL REQUIREMENTS PRIOR TO PAVEMENT CONSTRUCTION.
3. $\pm 4.0'$ OF EXISTING ASPHALT EDGE TO BE MILLED PRIOR TO OVERLAY. OVERLAY ASPHALT TO BE TAPERED TO MATCH EXISTING ASPHALT GRADES AT EDGES.
4. SEE PAVING AND DRAINAGE DETAILS FOR EXFILTRATION TRENCH, PAVEMENT RESTORATION, AND ASPHALT OVERLAY DETAILS.

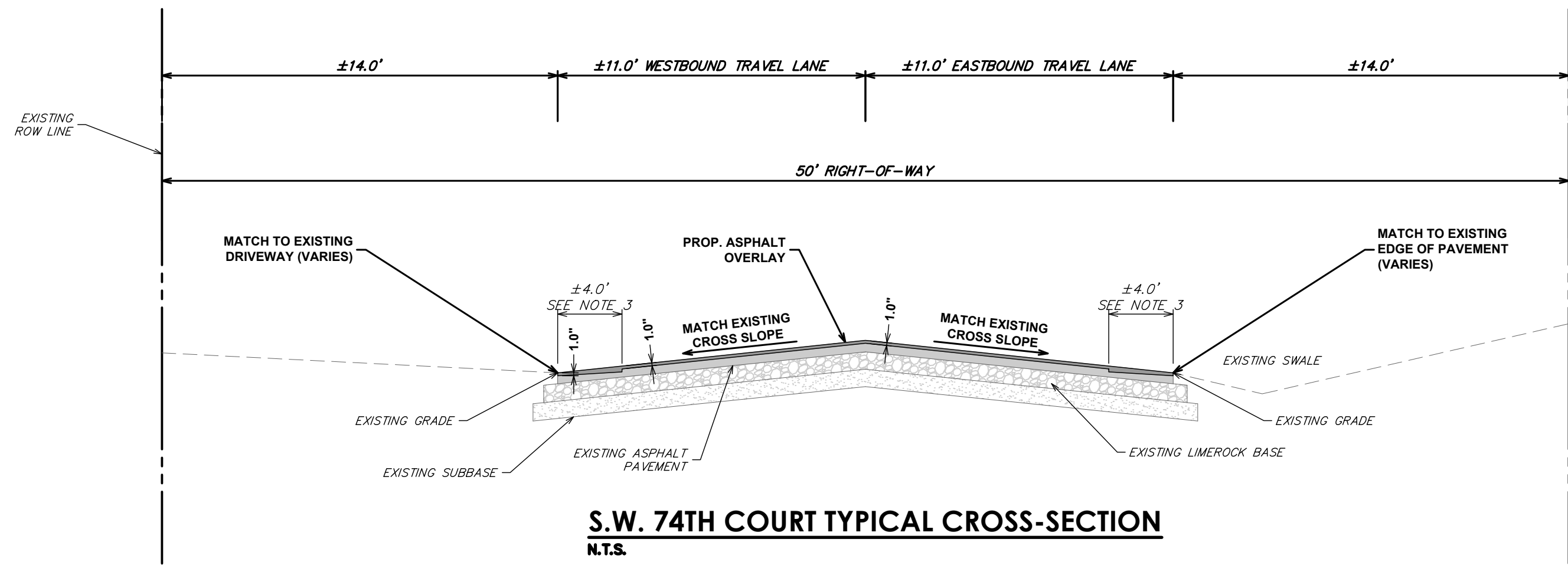


S.W. 164TH STREET TYPICAL CROSS-SECTION (EAST OF 74TH AVENUE)

N.T.S.

OVERLAY:

1. OVERLAY WITH FDOT TYPE SP-9.5 (FINE MIX) ASPHALTIC CONCRETE COURSE (1" MIN. THICKNESS).
2. PLEASE REFER TO GENERAL NOTES, APPLICABLE CODES, AND GEOTECHNICAL REQUIREMENTS PRIOR TO PAVEMENT CONSTRUCTION.
3. SEE PAVING AND DRAINAGE DETAILS FOR EXFILTRATION TRENCH, PAVEMENT RESTORATION, AND ASPHALT OVERLAY DETAILS.

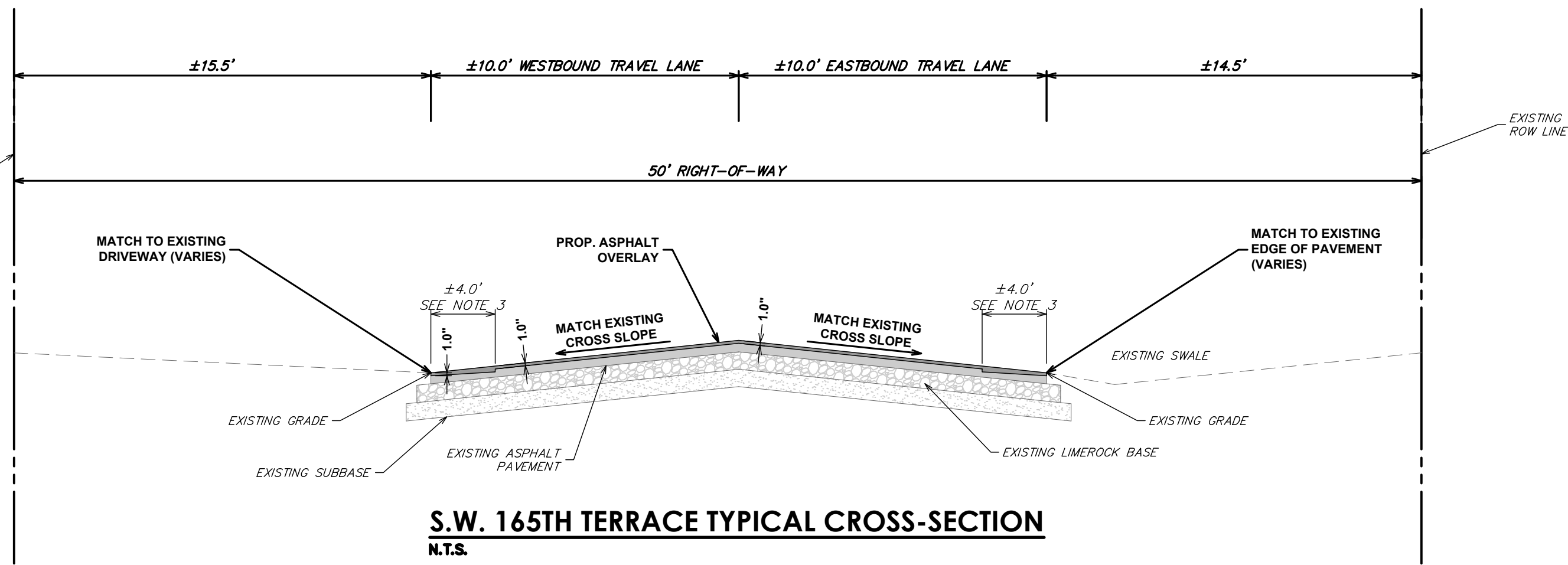


S.W. 74TH COURT TYPICAL CROSS-SECTION

N.T.S.

OVERLAY:

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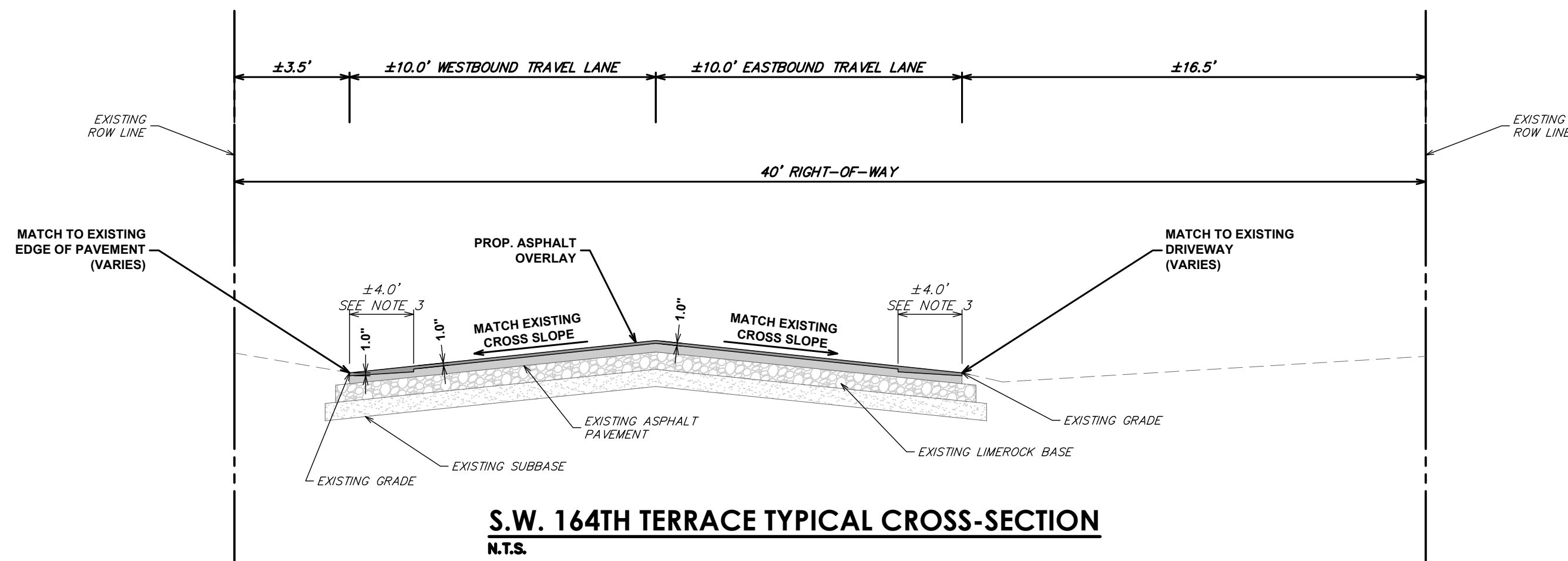


S.W. 165TH TERRACE TYPICAL CROSS-SECTION

N.T.S.

OVERLAY:

1. OVERLAY WITH FDOT TYPE SP-9.5 (FINE MIX) ASPHALTIC CONCRETE COURSE (1" MIN. THICKNESS).
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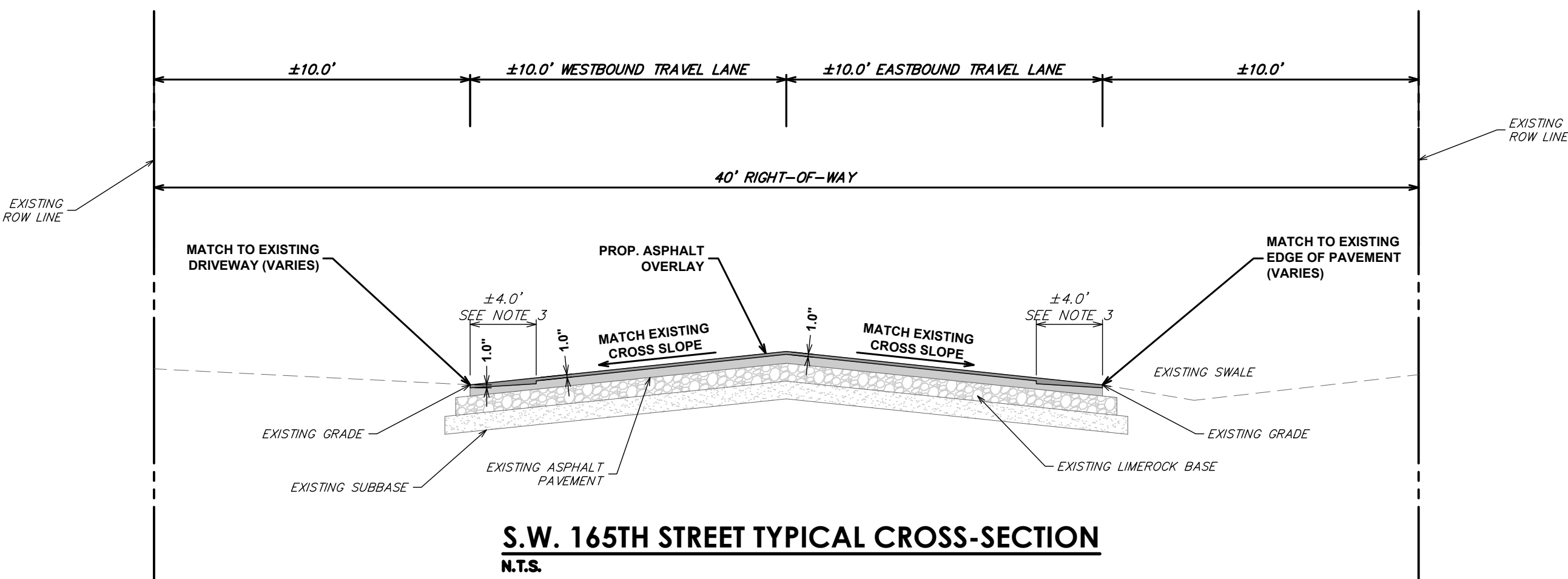


S.W. 164TH TERRACE TYPICAL CROSS-SECTION

N.T.S.

OVERLAY:

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S.W. 165TH STREET TYPICAL CROSS-SECTION

N.T.S.

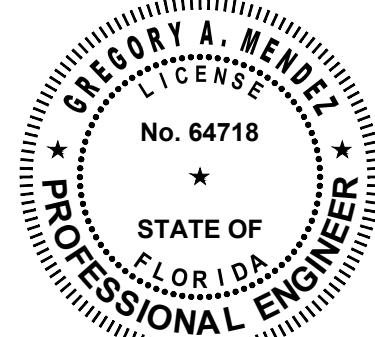
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REGISTRATION

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08/25/2023

CLIENT



PROJECT INFORMATION

**SUB-BASIN 44
DRAINAGE
IMPROVEMENTS**

PALMETTO BAY, FL

PROJECT NUMBER
21-0513.00001

CLIENT PROJECT NUMBER

VERIFY SCALES

0 1"

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REVISIONS

DATE OF ISSUE

AUGUST 2023

DESIGNED BY

HP

DRAWN BY

HP

CHECKED BY

GM

DRAWING TITLE

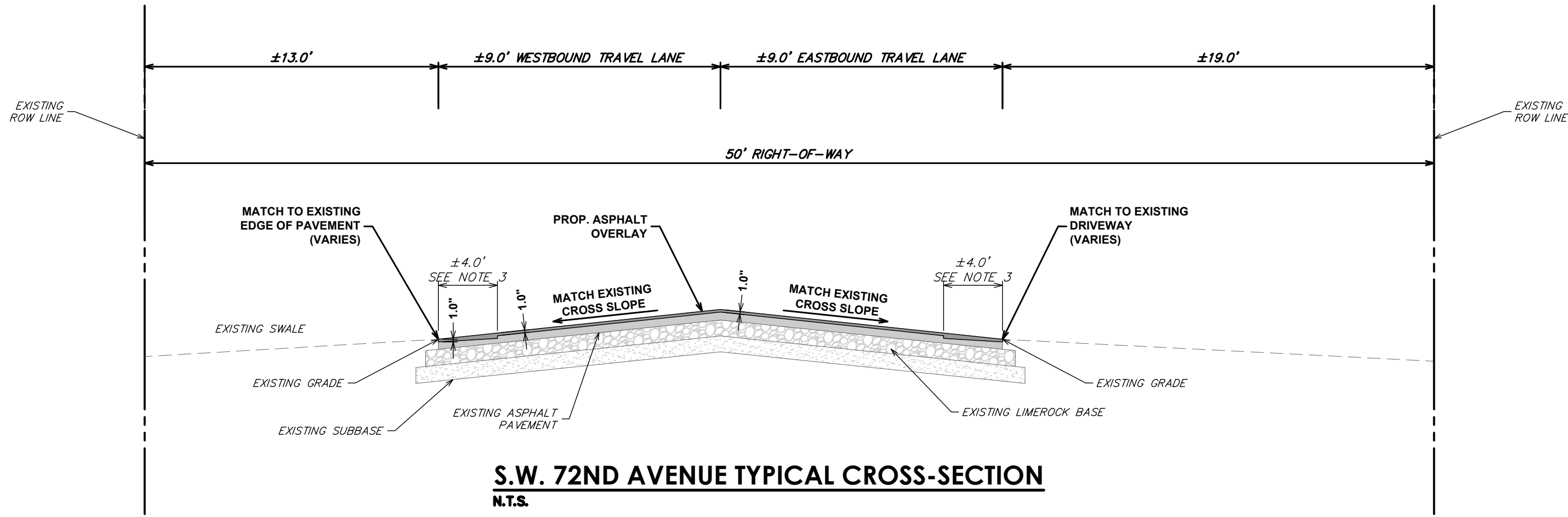
**PAVING AND
DRAINAGE
DETAILS**

DRAWING NUMBER

PDD-2

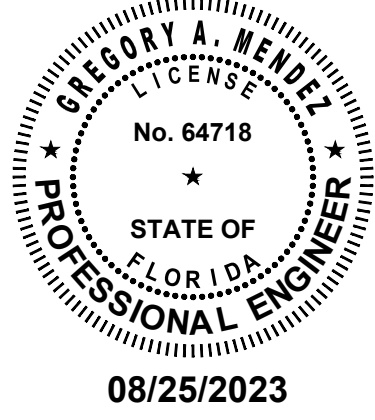
17 OF 22

BID SET



- OVERLAY:
1. OVERLAY WITH FDOT TYPE SP-9.5 (FINE MIX) ASPHALTIC CONCRETE COURSE (1" MIN. THICKNESS).
 2. PLEASE REFER TO GENERAL NOTES, APPLICABLE CODES, AND GEOTECHNICAL REQUIREMENTS PRIOR TO PAVEMENT CONSTRUCTION.
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PROJECT INFORMATION

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IMPROVEMENTS**

PALMETTO BAY, FL

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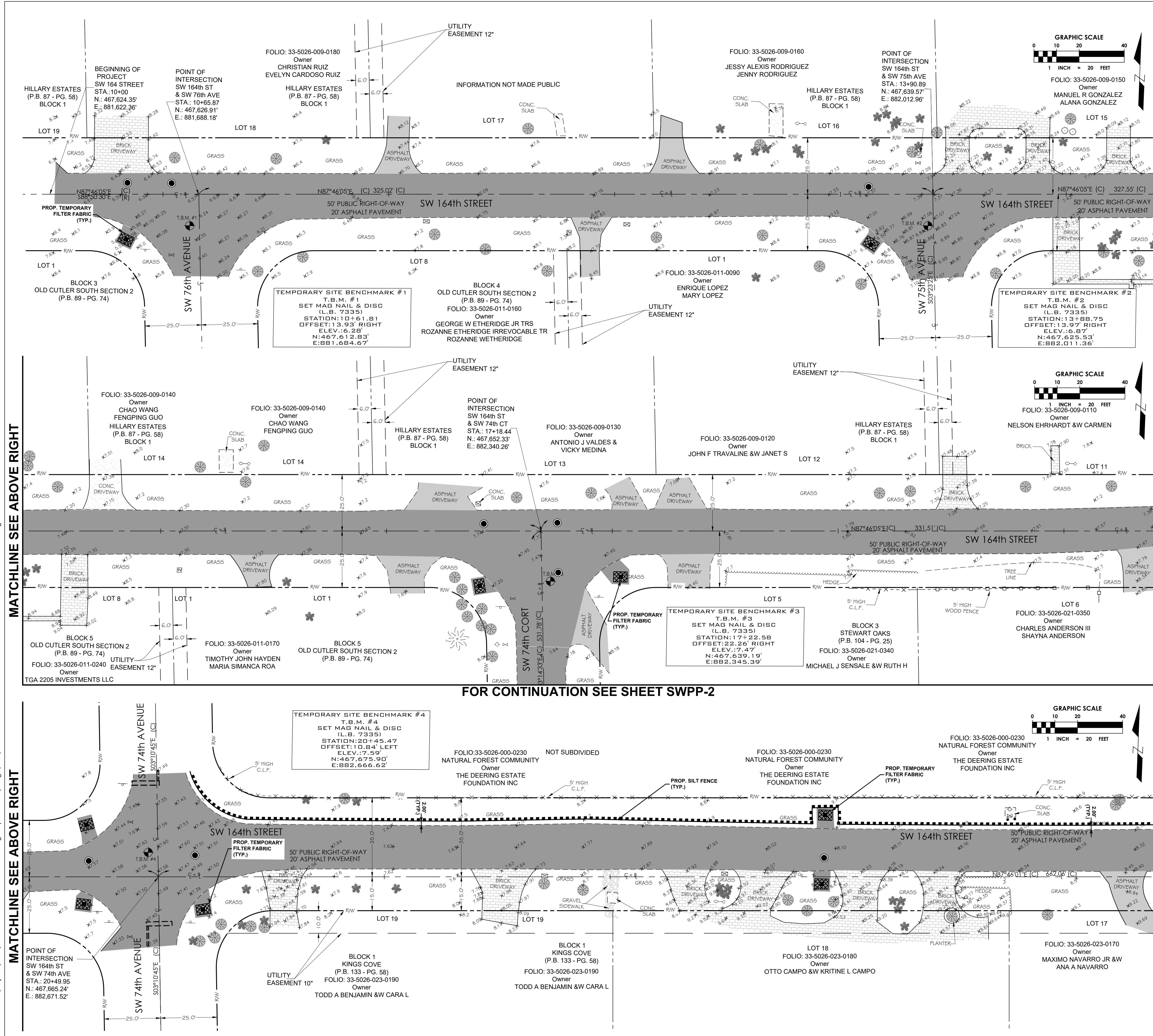
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**PAVING AND
DRAINAGE
DETAILS**

DRAWING NUMBER

PDD-3
18 OF 22

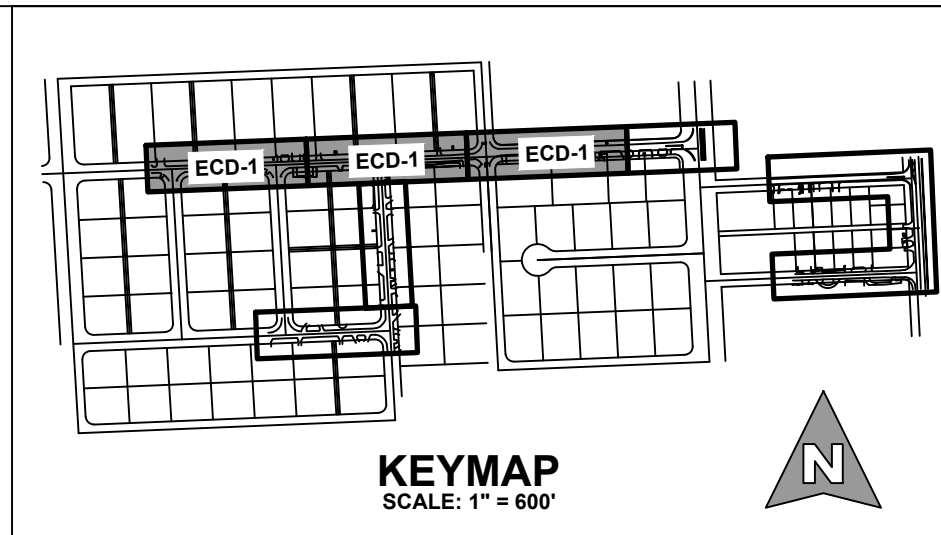
BID SET



MATCHLINE SEE BELOW LEFT

MATCHLINE SEE BELOW LEFT

FOR CONTINUATION SEE SHEET SWPP-2



LEGEND

- RIGHT-OF-WAY LINE
- PARCEL BOUNDARY
- LOT OR PROPERTY LINE
- CENTER LINE
- EXISTING EDGE OF PAVEMENT
- EXISTING CHAIN OR WIRE FENCE
- EXISTING OVERHEAD ELECTRIC
- EXISTING WATER MAIN
- EXISTING GAS
- EXISTING STORM DRAINAGE
- EXISTING CATCH BASIN
- EXISTING FIRE HYDRANT
- EXISTING GATE VALVE
- EXISTING SANITARY MANHOLE
- EXISTING CLEANOUT
- EXISTING GAS VALVE
- EXISTING ELEVATION
- EXISTING STREET SIGN POLE
- EXISTING HEDGE LINE
- EXISTING CANOPY TREE
- EXISTING PALM TREE
- EXISTING WOODEN UTILITY POLE
- EXISTING GUY ANCHOR
- EXISTING MAILBOX
- PROPOSED CATCH BASIN OR INLET
- PROPOSED STORM MANHOLE
- PROPOSED ASPHALT
- PROPOSED CONCRETE
- TEMPORARY FILTER FABRIC
- INLET PROTECTION

FOR CONTINUATION SEE SHEET SWPP-2

- EXISTING CONDITIONS NOTES:**
- EXISTING CONDITIONS PRESENTED ARE BASED ON A TOPOGRAPHIC SURVEY PROVIDED BY LONGITUDE SURVEYORS LLC, PROJECT NO. 22056.0.01 AND DATED 03/30/2022. ADDITIONAL INFORMATION WAS OBTAINED FROM AS-BUILTS AND RECORD DRAWINGS PROVIDED BY UTILITY COMPANIES, G.I.S. INFORMATION AND FIELD VISITS.
 - ALL ELEVATIONS ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD '29).
 - NATIONAL GEODETIC SURVEY (NGS) BENCHMARK USED:
BENCHMARK 1
DESIGNATION = U-768
DESCRIPTION = SW 168 ST - 103' NORTH OF C/L, OLD CUTLER RD - 46' WEST OF C/L
ELEVATION = 12.33' NGVD 29
BENCHMARK 2
DESIGNATION = CD-26-1
DESCRIPTION = SW 168 ST - 14.5' NORTH OF C/L, SW 77 AVE - 350'+ WEST OF CUTLER DRAIN CANAL C-100-A
ELEVATION = 12.08' NGVD 29
 - CONTRACTOR IS TO PROTECT ALL EXISTING TREES, SIGNS, AND ABOVE GROUND UTILITIES NOT IMPACTED BY THIS PLAN.

Sunshine811
Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.
Check positive response codes before you dig!

cma
chen moore and associates
3150 SW 38th Avenue
Suite 950
Miami, FL 33146
786.497.1500
www.chenmoore.com

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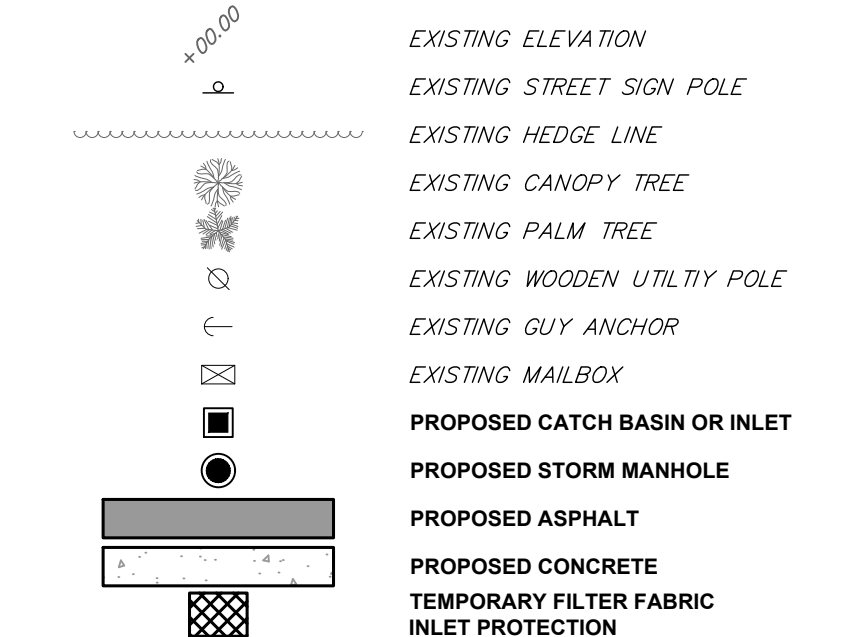
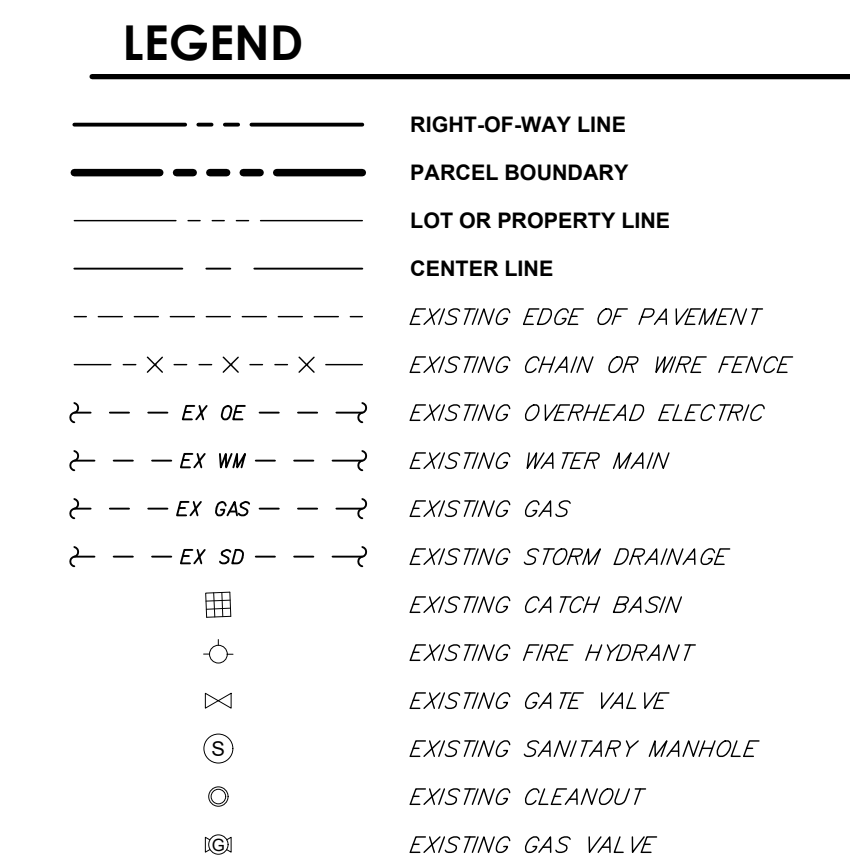
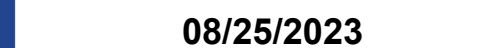
GREGORY A. MENDEZ, PE
No. 64718
STATE OF FLORIDA
PROFESSIONAL ENGINEER
08/25/2023

CLIENT
VILLAGE OF Palmetto Bay
FLORIDA
Est. 2003

PROJECT INFORMATION
SUB-BASIN 44 DRAINAGE IMPROVEMENTS
PALMETTO BAY, FL
PROJECT NUMBER 21-0513.00001
CLIENT PROJECT NUMBER
VERIFY SCALES 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
REVISIONS

DATE OF ISSUE
AUGUST 2023
DESIGNED BY
HP
DRAWN BY
HP
CHECKED BY
GM
DRAWING TITLE
STORMWATER POLLUTION PREVENTION PLAN
DRAWING NUMBER
SWPP-1
19 OF 22

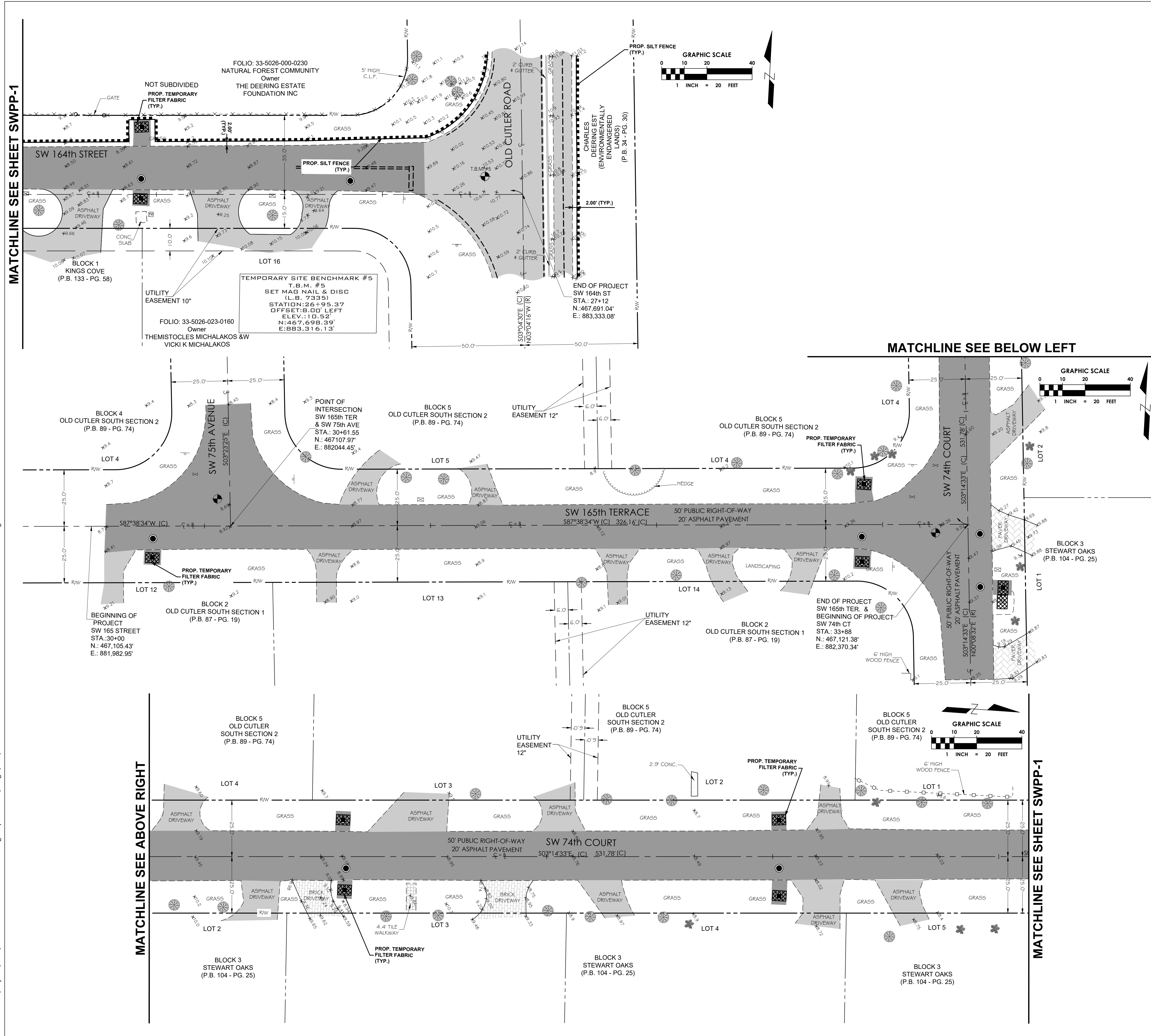
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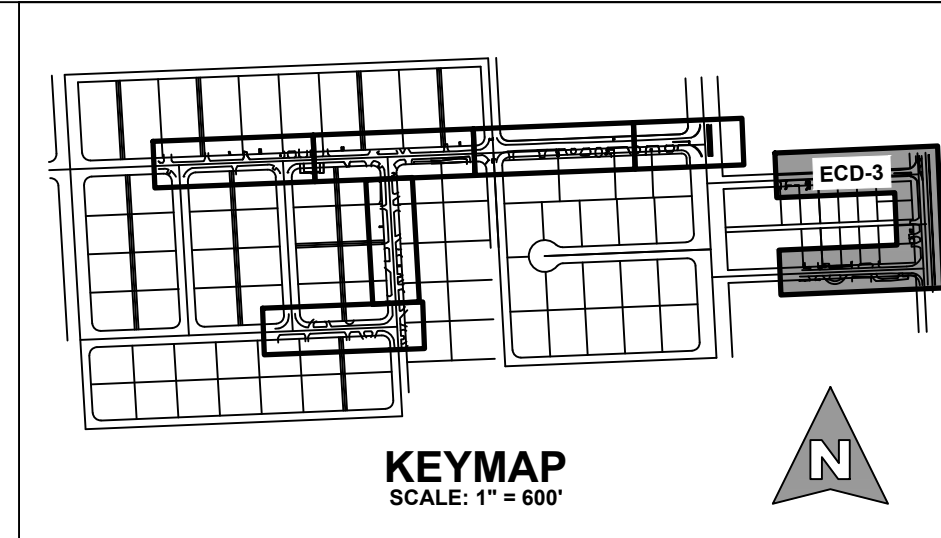
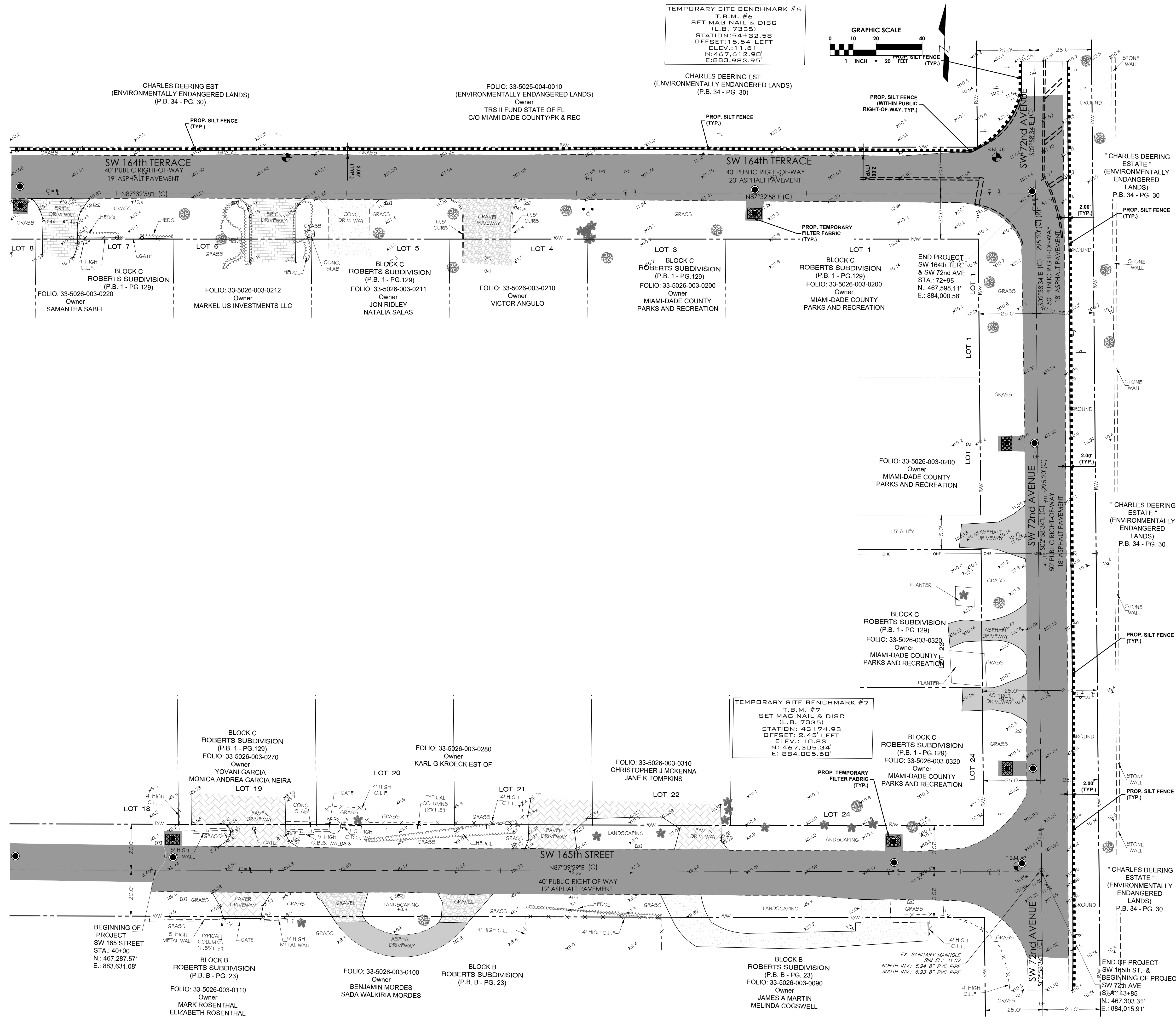


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2. ALL ELEVATIONS ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1928 (NGVD '29).
3. NATIONAL GEODETIC SURVEY (NGS) BENCHMARK USED: BENCHMARK 1
 DESIGNATION = U-768
 DESCRIPTION = SW 168 ST - 103' NORTH OF C/L, OLD CULTER RD - 46' WEST OF C/L
 ELEVATION = 12.33' NGVD 29
- BENCHMARK 2
 DESIGNATION = CD-361
 DESCRIPTION = SW 168 ST - 145' NORTH OF C/L, SW 77 AVE - 350' W. WEST OF CUTLER DRAIN CANAL C-100-A
 ELEVATION = 12.08' NGVD 29
4. CONTRACTOR IS TO PROTECT ALL EXISTING TREES, SIGNS, AND ABOVE GROUND UTILITIES NOT IMPACTED BY THIS PLAN.

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LEGEND	
	RIGHT-OF-WAY LINE
	PARCEL BOUNDARY
	LOT OR PROPERTY LINE
	CENTER LINE
	EXISTING EDGE OF PAVEMENT
	EXISTING CHAIN OR WIRE FENCE
	EXISTING OVERHEAD ELECTRIC
	EXISTING WATER MAIN
	EXISTING GAS
	EXISTING STORM DRAINAGE
	EXISTING CATCH BASIN
	EXISTING FIRE HYDRANT
	EXISTING GATE VALVE
	EXISTING SANITARY MANHOLE
	EXISTING CLEANOUT
	EXISTING GAS VALVE
	EXISTING ELEVATION
	EXISTING STREET SIGN POLE
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	EXISTING PALM TREE
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	EXISTING GUY ANCHOR
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DESIGNATION = CD-26-1
DESCRIPTION = SW 168 ST - 14.5' NORTH OF C/L, SW 77 AVE - 350'+- WEST OF CUTLER DRAIN CANAL C-100-A
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CLIENT

Palmetto Bay, FL

PROJECT INFORMATION

SUB-BASIN 44 DRAINAGE IMPROVEMENTS

PALMETTO BAY, FL

PROJECT NUMBER
21-0513.00001

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DESIGNED BY
HP

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HP

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GM

DRAWING TITLE
STORMWATER POLLUTION PREVENTION PLAN

DRAWING NUMBER
SWPP-3

21 OF 22

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