

SITE UTILITY NOTES:

1. ALL FILL MATERIAL IS TO BE IN PLACE, AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
2. CONTRACTOR SHALL NOTIFY THE PROPER UTILITIES AUTHORITIES 48 HOURS PRIOR TO ANY UTILITIES CONSTRUCTION.
3. SANITARY SEWER GRAVITY PIPE SHALL BE AS FOLLOWS:
- 8" CLASS 150 SDR 18, FOR PIPES 0' TO 4' DEEP
 - 8" CLASS 150 SDR 26, FOR PIPES MORE THAN 4' DEEP
 - 6" PVC SDR 18 FOR DEPTHS BETWEEN 0-4 FEET AND SDR 26 FOR 4 FEET OR GREATER PER DSM 2.4.2.1.1.2 A.
4. WATER LINES SHALL BE AS FOLLOWS, UNLESS OTHERWISE DEPICTED ON PLANS:
- 3" AND SMALLER, PVC ASTM D 221, WITH SDR 21 RATING, CONTINUALLY MARKED WITH MFR'S NAME, PIPE SIZE, CELL CLASSIFICATION, SDR RATING, AND ASTM D1748 MAT, CLASS
 - 4" TO 16", PVC, AWWA C900, RATED DR18 (CLASS 150), CONTINUALLY MARKED AS REQD
 - 4" TO 16", DIP, AWWA C151, PRESSURE CLASS 350 (4-12"), PRESSURE CLASS 250 (14-16")
5. MINIMUM TRENCH WIDTH SHALL BE 2 FEET.
6. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 3'-0" COVER ON ALL WATERLINES AND 4'-0" COVER ON ALL SANITARY SEWER PER DSM 2.4.1.2.2.D.
7. LINES UNDERGROUND SHALL BE INSTALLED, INSPECTED AND APPROVED BY LOCAL PUBLIC WORKS/UTILITIES BEFORE BACKFILLING. CONTRACTOR TO PROVIDE A MINIMUM 48 HOURS NOTICE.
8. TOPS OF EXISTING MANHOLES SHALL BE RAISED AS NECESSARY TO BE FLUSH WITH PROPOSED PAVEMENT ELEVATIONS, AND TO BE SIX INCHES ABOVE UNPAVED GROUND ELEVATIONS WITH WATER TIGHT LIDS.
9. EXISTING UTILITIES HAVE BEEN FIELD VERIFIED, HOWEVER, EXISTING UTILITIES SHALL BE RE-VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW LINES. THE EXISTING SANITARY SEWER SIZE, LOCATION, AND ELEVATION SHALL BE VERIFIED PRIOR TO CONSTRUCTION AND DEPICTED ON THESE PLANS.
10. REFER TO INTERIOR PLUMBING DRAWINGS FOR TIE-IN OF ALL UTILITIES.
11. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICES.
12. CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS.
13. ALL WATER JOINTS ARE TO BE MECHANICAL RESTRAINED JOINTS.
14. IN THE EVENT OF A VERTICAL CONFLICT BETWEEN WATER LINES, SANITARY LINES, STORM LINES AND GAS LINES (EXISTING AND PROPOSED), THE SANITARY LINE SHALL BE DUCTILE IRON PIPE WITH MECHANICAL JOINTS AT LEAST 10 FEET ON BOTH SIDES OF CROSSING, THE WATER LINE SHALL HAVE MECHANICAL RESTRAINED JOINTS AS REQUIRED TO PROVIDE A MINIMUM OF 18" CLEARANCE. MEETING REQUIREMENTS OF ANSI A21.10 OR ANSI 21.11 (AWWA C-151) (CLASS 50).
15. ALL SANITARY LATERALS (LESS THAN 6" DIAMETER) SHALL BE SLOPED AT A MINIMUM OF 1.00%.
16. CONTRACTOR SHALL TURN OFF THE CORPORATION STOPS AT THE METERS FOR ALL WATER SERVICES THAT ARE TO BE REMOVED.
17. WHEN ANY ROOTS OF EXISTING TREES ARE ENCOUNTERED DURING LAND CLEARING AND/OR GRADING OF THE SITE THE ROOTS MUST BE CUT OFF EVENLY WITH CLEAN SHARP PRUNING TOOLS. CONTRACTOR SHALL MINIMIZE DAMAGE TO TREE ROOT SYSTEM.
18. A MINIMUM OF 5 FT SEPARATION SHALL BE PROVIDED BETWEEN THE UNDERGROUND UTILITIES AND ANY PROPOSED LARGE CANOPY TREES.
19. UNDERGROUND FIRE MAINS AND FIRE HYDRANTS WILL BE PUBLIC AND MUST BE INSTALLED BY A LICENSED FIRE CONTRACTOR CLASS I, II, III, IV. COMBINATION FIRE MAINS (SHARED DOMESTIC AND FIRE PROTECTION SERVICE) AND FIRE HYDRANTS UP TO THE DEDICATED FIRE PROTECTION SYSTEM "POINT OF SERVICE" CAN BE INSTALLED BY A LICENSED UNDERGROUND UTILITY/EXCAVATION CONTRACTOR, GENERAL CONTRACTOR, OR PLUMBING CONTRACTOR.
20. UNDERGROUND FIRE MAINS WILL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH NFPA 24-2007 EDITION. STANDARDS FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES.
21. IN PAVED AREAS, ALL CLEANOUT COVERS AND VALVE BOXES SHALL BE TRAFFIC RATED AND FLUSH WITH TOP OF PAVEMENT.
22. ALL SANITARY MANHOLES SHALL HAVE INCLUDE TROWEL-FINISHED CONCRETE BENCHING.

SITE PLAN NOTES:

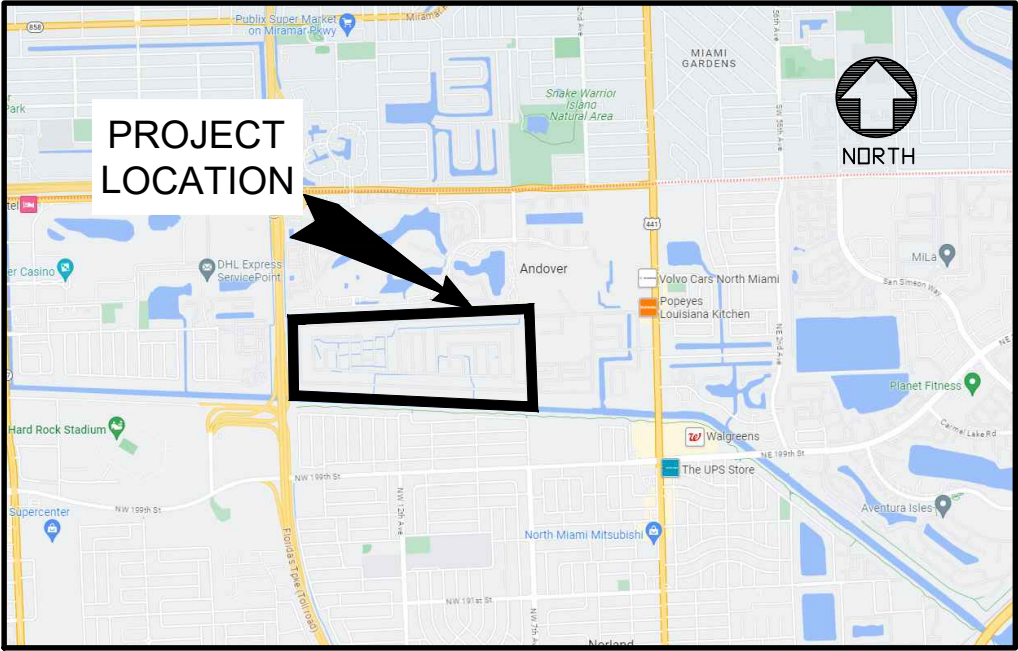
1. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL LOCAL REGULATIONS AND CODES AND O.S.H.A. STANDARDS.
2. CONTRACTORS MUST BE FDOT PREQUALIFIED IN THE WORK CLASSES OF GRADING, DRAINAGE, AND FLEXIBLE PAVING TO BE ELIGIBLE TO WORK WITHIN THE PUBLIC ROW OF THIS PROJECT. THE PAVING SUBCONTRACTOR, IF APPLICABLE, MUST ALSO BE FDOT PREQUALIFIED IN FLEXIBLE PAVING, ALL PAVEMENT SLOPES, SIDEWALKS SHALL BE PER THE APPROVED FINAL ENGINEERING PLANS. BUILDING ENTRANCE ELEVATIONS PER THE ARCHITECTURAL PLANS SHALL BE CHECK AGAINST THE FINAL ENGINEERING PLANS.
3. ALL DISTURBED AREAS ARE TO RECEIVE FOUR INCHES OF TOPSOIL, SEED, MULCH AND WATER UNTIL A HEALTHY STAND OF GRASS IS ESTABLISHED. SEE 02900 SPECIFICATION.
4. ALL ISLANDS WITH CURB & GUTTER SHALL BE LANDSCAPED, UNLESS OTHERWISE NOTED. THOSE ISLANDS ARE TO HAVE CONC. CURB.
5. ALL DIMENSIONS AND RADII ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
6. EXISTING STRUCTURES WITHIN CONSTRUCTION LIMITS ARE TO BE MODIFIED AS NECESSARY. ALL COST SHALL BE INCLUDED IN BASE BID.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, (UNLESS OTHERWISE NOTED ON PLANS) INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS & POLES, ETC. AS REQUIRED. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING AUTHORITIES REQUIREMENTS AND PROJECT SITE WORK SPECIFICATIONS AND SHALL BE APPROVED BY SUCH. ALL COST SHALL BE INCLUDED IN BASE BID.
8. THE SITE WORK FOR THE PROJECT SHALL MEET OR EXCEED THE "SITE SPECIFIC SPECIFICATIONS".
9. LIGHTING ELECTRICAL PLANS TO BE PROVIDED BY FPL. ALL SITE LIGHTING IS TO BE INSTALLED PRIOR TO SITE ACCEPTANCE. LOCAL APPROVAL OF THE FPL STREET LIGHTING PLAN IS REQUIRED PRIOR TO FINALIZATION AND WILL BE PART OF THE ENGINEERING SUBMITTAL. POLES AND FIXTURES ARE REQUIRED TO BE DECORATIVE.
10. ALL SIGNAGE AND STRIPING TO BE INSTALLED IN ACCORDANCE WITH MUTCD (LATEST EDITION) STANDARDS AND SPECIFICATIONS. ALL SIGNAGE IS TO BE DECORATIVE. ALL STRIPING TO BE THERMOPLASTIC.
11. ALL CONSTRUCTION DUMPSTERS TO BE WASTE PRO, NO EXCEPTIONS. DUMPSTERS ARE TO BE LOCATED A MIN. OF 100' FROM ANY SITE BOUNDARY.
12. NO ONSITE BURNING IS ALLOWED AT ANY TIME.
13. ALL ORGANIC OR OTHER UNSUITABLE MATERIALS MUST BE HAULED OFF THE SITE AND PROPERLY DISPOSED.
14. PAYMENT OF THE 1% SITE INSPECTION FEE IS DUE PRIOR TO BREAKING GROUND. FEE IS 1% OF THE TOTAL SITEWORK CONSTRUCTION COST, NOT INCLUDING ITEMS COVERED BY A BUILDING PERMIT.
15. PROVIDE A VIDEO INSPECTION OF ALL SANITARY SEWER MAINS, SANITARY SEWER LATERALS, AND ALL STORMWATER PIPES. PROVIDE TCU WITH A DVD COPY OF ALL VIDEO INSPECTIONS.
16. ALL WORK PERFORMED WITHIN THE FDOT RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH 2017 DESIGN STANDARDS, 2017 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND 2010 UTILITY ACCOMODATION MANUAL.
17. A 6' CHAIN LINK FENCE WITH EITHER GREEN OR BLACK OPAQUE PRIVACY SCREEN IS REQUIRED TO BE INSTALLED AROUND THE PROJECT PERIMETER PRIOR TO SITE WORK.
18. A REFUNDABLE STORMWATER POLLUTION PREVENTION PLAN CASH DEPOSIT OR LETTER OF CREDIT FOR THE LESSER OF 1% OF THE SITE CONSTRUCTION COST OR \$5,000 IS REQUIRED AT THE PRE-CONSTRUCTION MEETING
1. CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF EXISTING STRUCTURES INCLUDING REMOVAL OF ANY EXISTING UTILITIES SERVING THE STRUCTURE.
2. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
3. ALL CUT OR FILL SLOPES SHALL BE 4:1 OR FLATTER UNLESS OTHERWISE NOTED.
4. PRECAST STRUCTURES MAY BE USED AT CONTRACTORS OPTION.
5. EXISTING AND NEWLY INSTALLED PIPES TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.
6. STORM PIPE SHALL BE PER MASTER SITE SPECIFICATIONS (REINFORCED CONCRETE PIPE)
7. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
8. ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATERTIGHT
9. ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT, AND SHALL HAVE TRAFFIC BEARING RING & COVERS. MANHOLES IN UNPAVED AREAS SHALL BE 6" ABOVE FINISH GRADE. LIDS SHALL BE LABELED "STORM SEWER"
10. THE CONTRACTOR SHALL ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN THE GENERAL N.P.D.E.S. PERMIT FOR STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
11. CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
12. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED GROUND SURFACES.
13. ALL UNSURFACED AREAS DISTURBED BY GRADING OPERATION SHALL RECEIVE 4 INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES 3H:1V OR STEEPER. CONTRACTOR SHALL STABILIZE DISTURBED AREAS IN ACCORDANCE WITH GOVERNING SPECIFICATIONS UNTIL A HEALTHY STAND OF VEGETATION IS OBTAINED.
14. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME.
15. ALL STORM STRUCTURES SHALL HAVE A 2-FOOT SUMP BELOW THE LOWEST INVERT
16. TOPOGRAPHIC INFORMATION IS TAKEN FROM A TOPOGRAPHIC SURVEY BY LAND SURVEYOR CONSULTANT. IF THE CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THEN THE CONTRACTOR SHALL SUPPLY, AT THEIR EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR TO THE OWNER FOR REVIEW.
17. ALL EXISTING MANHOLE RIMS TO BE FLUSH WITH FINISHED GRADE. CONTRACTOR TO INSTALL MANHOLE RISERS OR ADJUST EXISTING FRAMES AS NECESSARY.
18. EXISTING GRATE ELEVATIONS TO REMAIN, WHERE PAVEMENT OVERLAY IS TO BE PLACED, FEATHER OVERLAY TO MATCH EXISTING GRATE ELEVATION TO FORM A SMOOTH TRANSITION.
19. SPOT ELEVATIONS ADJACENT TO CURBS REPRESENT EDGE OF PAVEMENT ELEVATIONS, TOP OF CURB SHOULD BE CONSIDERED 6" HIGHER.
20. CONTRACTOR TO MATCH EXISTING GRADE AT LIMITS OF DISTURBANCE, AS DEPICTED ON SWPPP SITE MAPS
21. STRIP THE SURFICIAL ORGANIC SANDS AND IMPORT A MINIMUM OF 2 FEET OF PRE-APPROVED ENGINEERED FILL WITHIN THE LIMITS OF PROPOSED BUILDING FOUNDATIONS AND PAVEMENT.
22. AFTER STRIPPING IS COMPLETE, THE EXPOSED SUBGRADE SHALL BE OBSERVED, TESTED AND PROOF-ROLLED WITH A MINIMUM OF 10 PASSES WITH A HEAVY VIBRATORY ROLLER IN PERPENDICULAR DIRECTIONS.
23. FILL SHALL BE COMPACTED IN LIFTS NO THICKER THAN 9 TO 12 INCHES IN LOOSE THICKNESS, WITH EACH LIFT COMPACTED TO AT LEAST 95 PERCENT OF THE SOILS MODIFIED PROCTOR DRY DENSITY, (ASTM D-1557), AT A DEPTH OF 1 FOOT BELOW THE COMPACTED SURFACE, AS DETERMINED BY IN-PLACE DENSITY TESTS.
24. FILL SHALL BE COMPACTED TO 95 PERCENT OF THE MATERIAL'S MAXIMUM MODIFIED PROCTOR DRY DENSITY
25. IMPORTED FILL OR BACKFILL SHOULD CONSIST OF FINE SAND WITH LESS THAN 15 PERCENT PASSING THE NO. 200 SIEVE, FREE OF RUBBLE, ORGANICS, CLAY, DEBRIS, AND OTHER UNSUITABLE MATERIAL.
26. MOISTURE CONTENT OF THE FILL SHALL BE WITH IN +/-2 PERCENT OF OPTIMUM MOISTURE CONTENT AS ESTABLISHED IN ASTM D-1557.
27. ONE FIELD DENSITY TEST SHALL BE CONDUCTED PER 2,500 SQUARE FEET (OR FRACTION THEREOF) PER LIFT, IN THE BUILDING AREA, 1 TEST PER 5,000 SQUARE FEET IN PAVEMENT AREAS.
28. ALTHOUGH THE EXPOSED SUBGRADE IS ANTICIPATED TO BE RELATIVELY STABLE UPON INITIAL EXPOSURE, UNSTABLE SUBGRADE CONDITIONS COULD DEVELOP DURING GENERAL CONSTRUCTION OPERATIONS IF THE SOILS ARE WETTED AND/OR SUBJECTED TO REPETITIVE CONSTRUCTION TRAFFIC.
29. LANDSCAPED AREAS BETWEEN RESIDENTIAL BUILDINGS AND SIDEWALKS ALONG PUBLIC ROADS SHALL BE SLOPED SUCH THAT THE EXPOSED FOOTER OF THE BUILDING IS A MINIMUM OF 1 FOOT AND MAXIMUM OF 2.5 FEET.

COCONUT CAY DRAINAGE REMEDIATION CONSTRUCTION PLANS

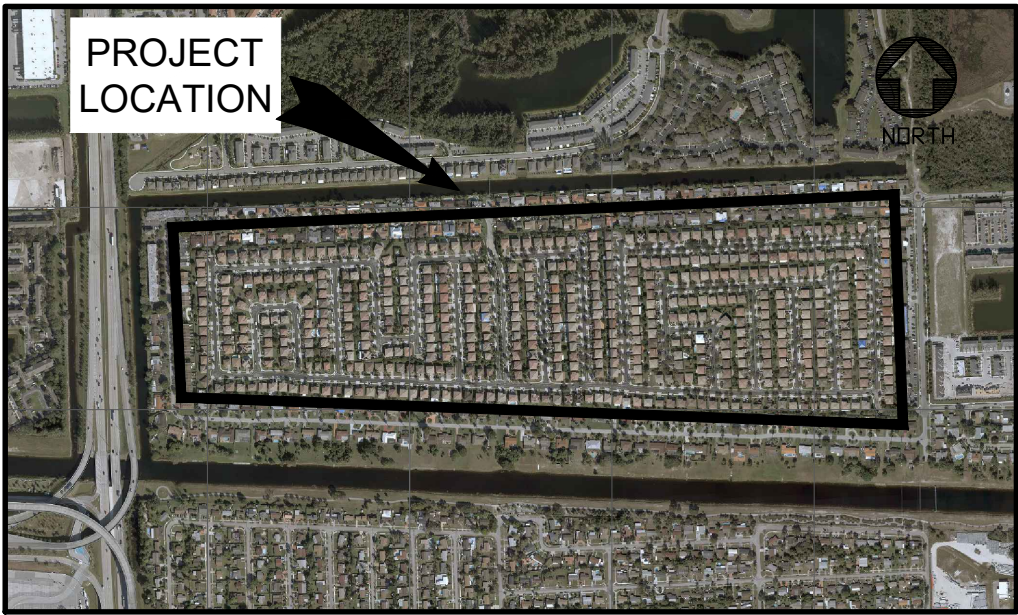
1131 NW 207TH STREET
MIAMI GARDENS, FL. 33169

OWNER / APPLICANT

COCONUT CAY COMMUNITY DEVELOPMENT DISTRICT
5385 NORTH NOB HILL ROAD
SUNRISE, FLORIDA 33351
850-661-9973
PAUL WINKELJOHN
PWINKELJOHN@GMSSF.COM



VICINITY MAP
NTS



AERIAL MAP
NTS

CIVIL ENGINEER:
NVS, INC.
6200 LEE VISTA BLVD., STE. 400
ORLANDO, FLORIDA 32822
JASON P. MAHONEY, P.E.
407-896-3317

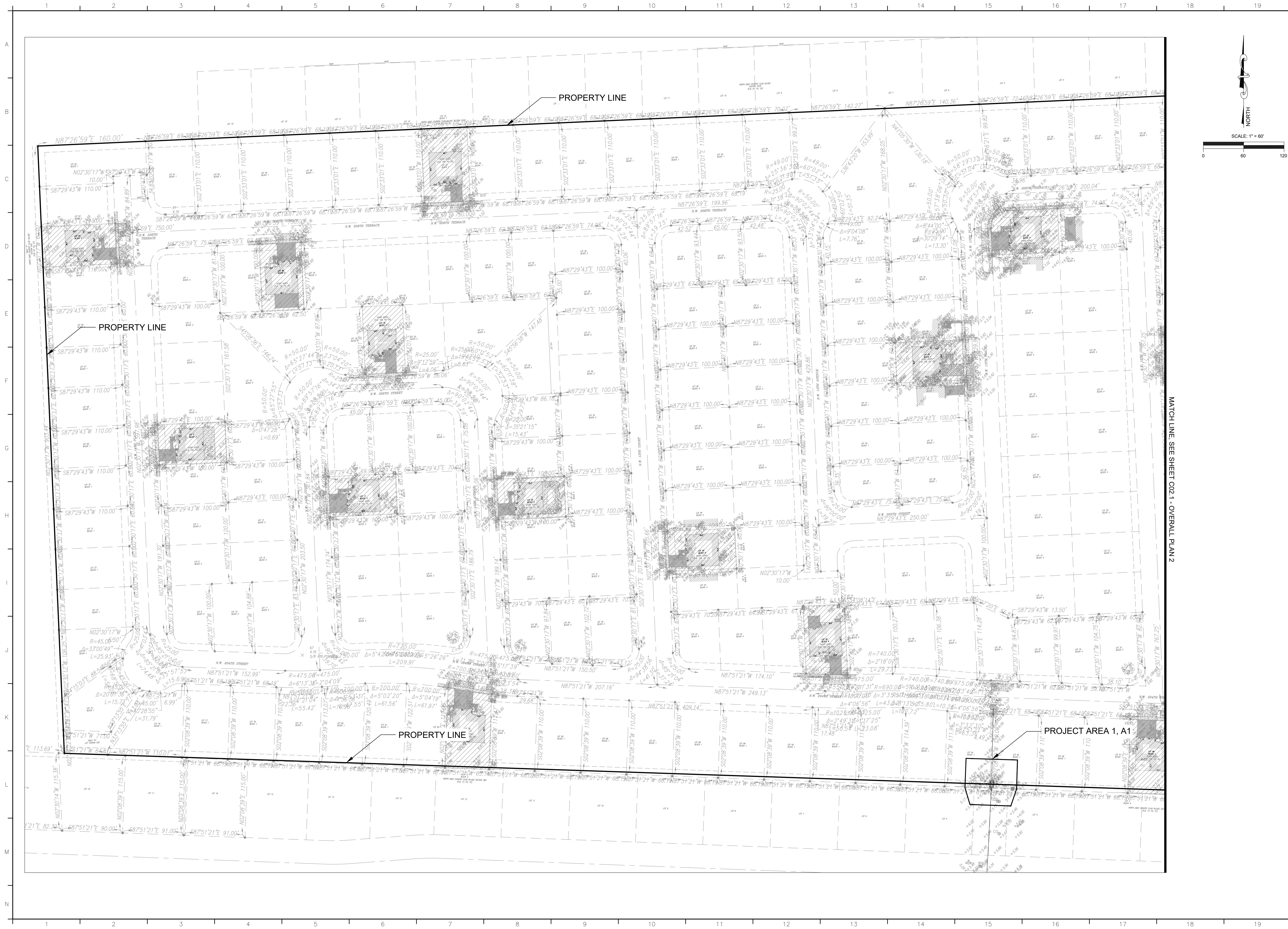
SURVEYOR:
SCHWELKE - SHISKIN & ASSOCIATES, INC.
3240 CORPORATE WAY
MIRAMAR, FLORIDA 33025
MARK STEVEN JOHNSON, PSM
954 -435-7010

CONSULTANTS

SHEET LIST TABLE

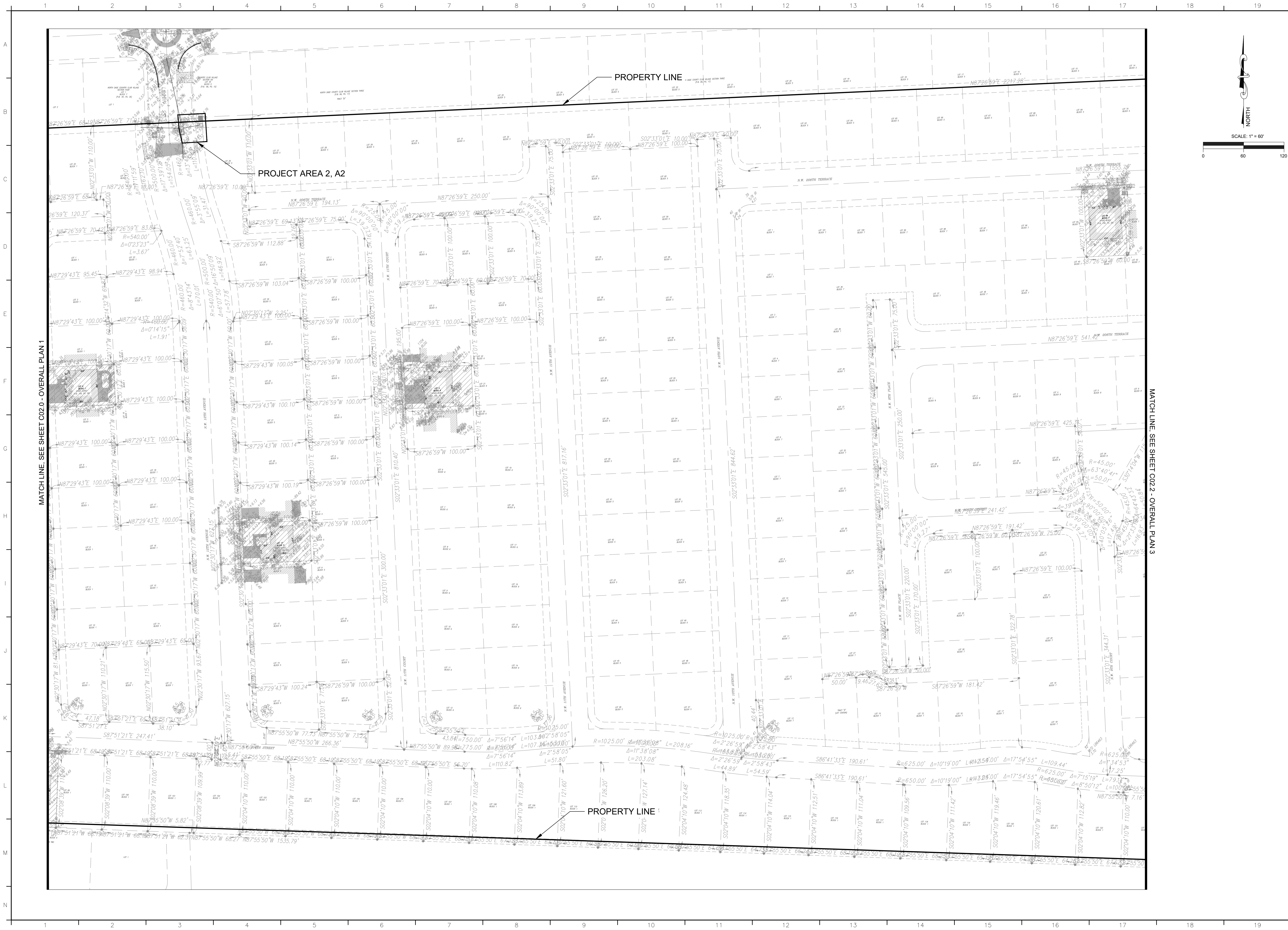
SHEET NUMBER	SHEET TITLE
C01.0	COVER SHEET
C02.0	OVERALL PLAN 1
C02.1	OVERALL PLAN 2
C02.2	OVERALL PLAN 3
C03.0	SWPPP PLAN A-1
C03.1	SWPPP PLAN A-2
C03.2	SWPPP PLAN A-3
C04.0	SWPPP DETAILS
C05.0	A-1 DEMO PLAN
C05.1	A-1 TEMPORARY SITE PLAN
C05.2	A-1 FINAL SITE PLAN
C05.3	A-1 GRADING PLAN
C06.0	A-2 DEMO PLAN
C06.1	A-2 FINAL SITE PLAN
C06.2	A-2 GRADING PLAN
C07.0	A-3 DEMO PLAN
C07.1	A-3 FINAL SITE PLAN
C07.2	A-3 GRADING PLAN
C08.0	DETAIL SHEET
C08.1	MOT DETAIL SHEET
C09.0	LIFTSTATION PLAN A-1
C09.1	LIFTSTATION PLAN A-2
C09.2	LIFTSTATION PLAN A-3

SHEET		C01.0	
6200 LEE VISTA BLVD. SUITE 400 ORLANDO, FL (407) 896-3317 WWW.NVS.COM		COVER SHEET	
COCONUT CAY DRAINAGE REMEDIATION AT 5385 NORTH NOB HILL ROAD SUNRISE, FLORIDA 33351 FOR COCONUT CAY COMMUNITY DEVELOPMENT DISTRICT		COCONUT CAY DRAINAGE REMEDIATION	
NVS		△	△
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		△	△
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CERTIFICATE OF AUTHORIZATION # 29065		ENGINEER JASON P. MAHONEY, P.E. FL LIC. #63183	
		PRJ MGR: FP	
		DESIGNER: GCR	
		CHECKED: FP	
		DATE: Mar. 18, 2025	
		CITY COMMENTS	
		NO.	DATE
		REVISIONS	

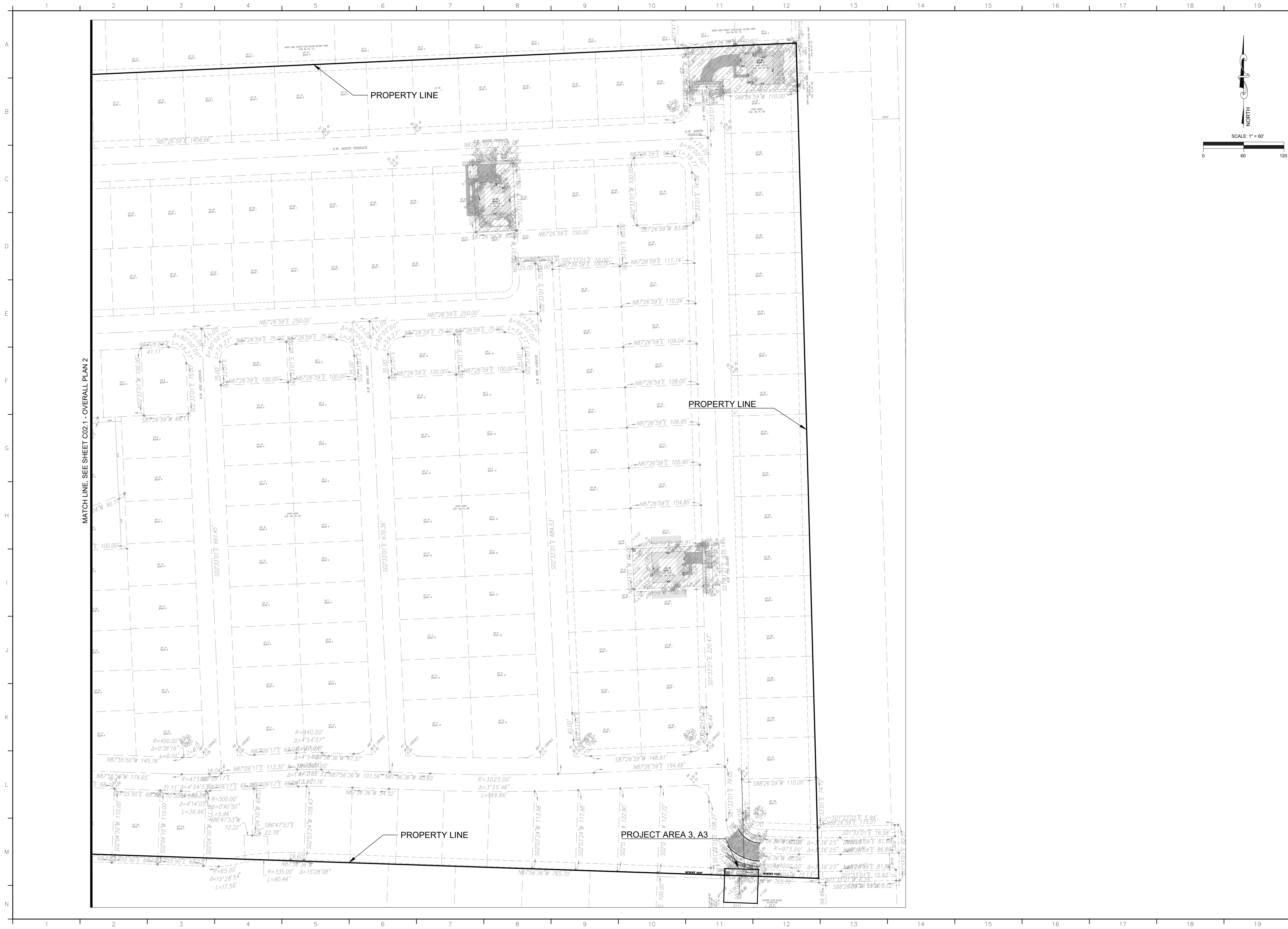


MATCH LINE, SEE SHEET 002.1 - OVERALL PLAN 2

6200 LEE VISTA BLVD. SUITE 400 ORLANDO, FL (407) 896-3377 WWW.NV5.COM	OVERALL PLAN 1	COCONUT CAY DRAINAGE REMEDIATION AT 5385 NORTH NOB HILL ROAD SUNRISE, FLORIDA 33351 FOR COCONUT CAY COMMUNITY DEVELOPMENT DISTRICT	ENGINEER JASON P. MAHONEY, P.E. FL LIC #51853	JOB #: 22037.20 PRJ MGR: FP DESIGNER: GGR CHECKED: FP	DATE: Mar. 18, 2025
SHEET C02.0	03/22037.20/CONST/22037.20 C03.0 OVERALL PLAN.dwg - Mar 18, 2025 - 3:07pm				



SHEET	C02.1			
	C02.1			
6200 LEE VISTA BLVD. SUITE 400 ORLANDO, FL (407) 896-3377 WWW.NVS.COM	CERTIFICATE OF AUTHORIZATION # 29685			
	OVERALL PLAN 2			
COCOA BEACH COMMUNITY DEVELOPMENT DISTRICT		5385 NORTH NOB HILL ROAD SUNRISE, FLORIDA 33351		
NO		DATE		
REVISIONS		DATE: Mar. 18, 2025		
ENGINEER		DESIGNER: GCR		
JASON P. MAHONEY, P.E.		PRJ MGR: FP		
FL LIC #5185		JOB #: 22037.20		
COCOA BEACH COMMUNITY DEVELOPMENT DISTRICT		CHECKED: FP		



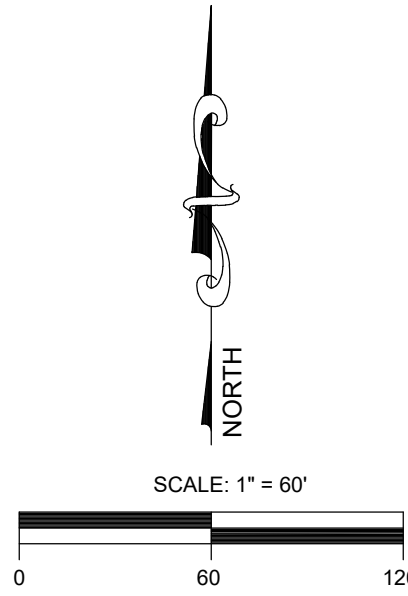
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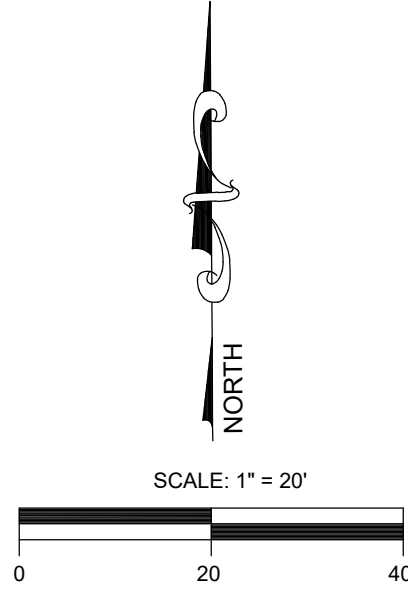
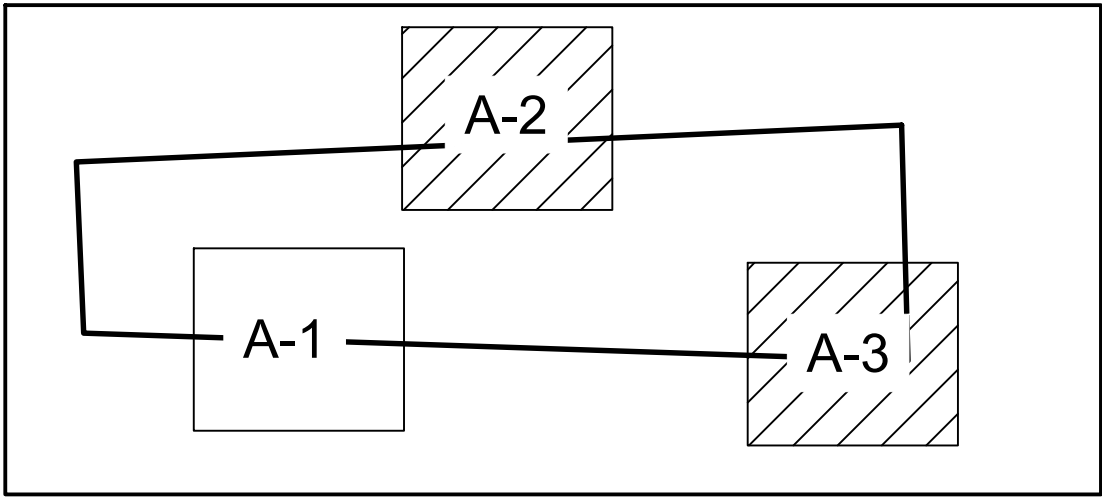
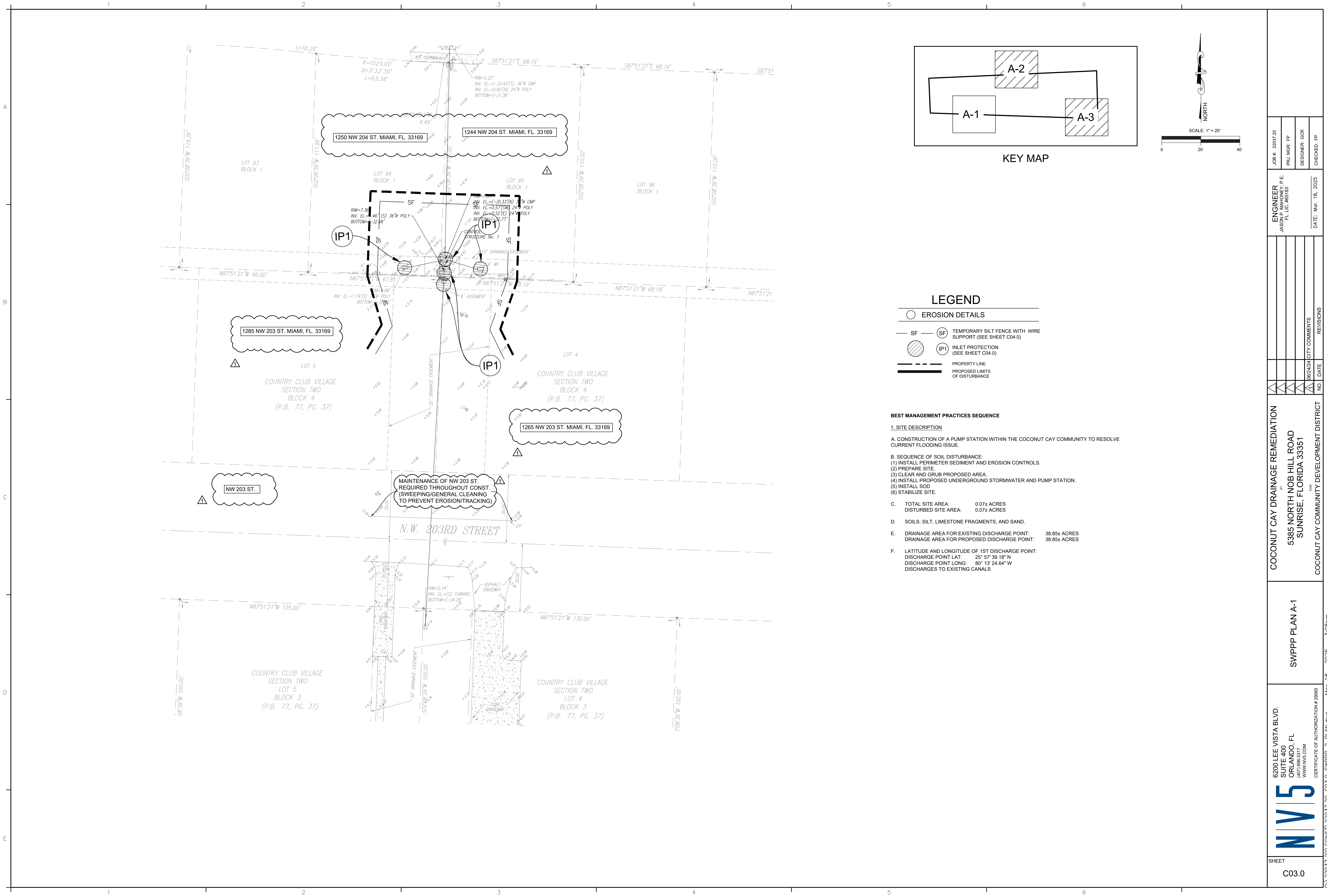
PROPERTY LINE

PROPERTY LINE

PROJECT AREA 3, A3

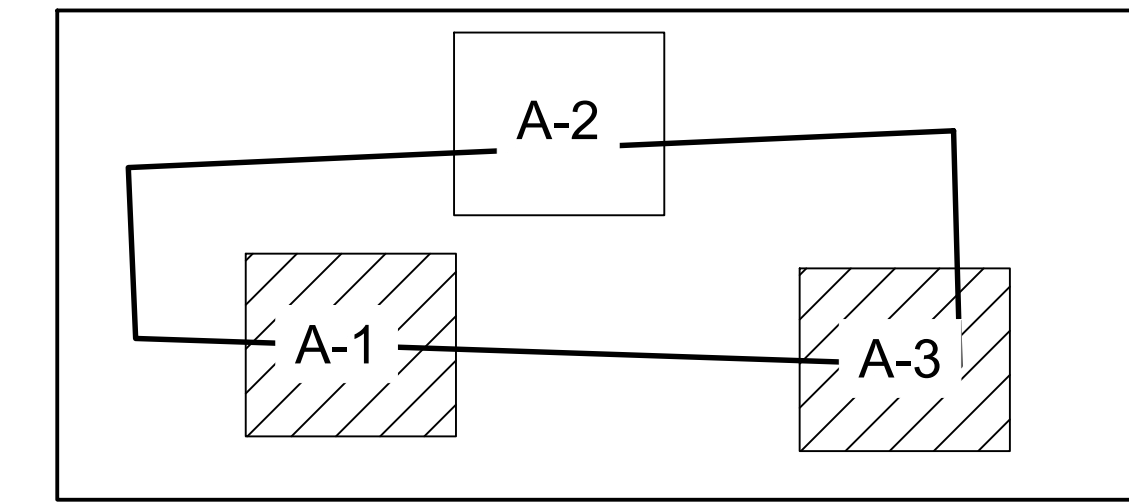


SHEET		C02.2	
NV5 6200 LEE VISTA BLVD. SUITE 400 ORLANDO, FL (407) 896-3317 WWW.NV5.COM		OVERALL PLAN 3	
COCONUT CAY DRAINAGE REMEDIATION AT 5385 NORTH NOB HILL ROAD SUNRISE, FLORIDA 33351 FOR COCONUT CAY COMMUNITY DEVELOPMENT DISTRICT		ENGINEER JASON P. MAHONEY, P.E. FL LIC. #51563	
6200 LEE VISTA BLVD. SUITE 400 ORLANDO, FL (407) 896-3317 WWW.NV5.COM		JOB # - 22037.20	
CERTIFICATE OF AUTHORIZATION # 25065		PRJ MGR: FP	
		DESIGNER: GCR	
		CHECKED: FP	
		DATE: Mar. 18, 2025	
		REVISIONS	
		NO. DATE	



- LEGEND**
- EROSION DETAILS
 - SF — TEMPORARY SILT FENCE WITH WIRE SUPPORT (SEE SHEET C04.0)
 - ⊗ INLET PROTECTION (SEE SHEET C04.0)
 - PROPERTY LINE
 - - - PROPOSED LIMITS OF DISTURBANCE

- BEST MANAGEMENT PRACTICES SEQUENCE**
- 1. SITE DESCRIPTION**
- A. CONSTRUCTION OF A PUMP STATION WITHIN THE COCONUT CAY COMMUNITY TO RESOLVE CURRENT FLOODING ISSUE.
- B. SEQUENCE OF SOIL DISTURBANCE:
- (1) INSTALL PERIMETER SEDIMENT AND EROSION CONTROLS.
 - (2) PREPARE SITE.
 - (3) CLEAR AND GRUB PROPOSED AREA.
 - (4) INSTALL PROPOSED UNDERGROUND STORMWATER AND PUMP STATION.
 - (5) INSTALL SOD
 - (6) STABILIZE SITE.
- C. TOTAL SITE AREA: 0.07± ACRES
DISTURBED SITE AREA: 0.07± ACRES
- D. SOILS: SILT, LIMESTONE FRAGMENTS, AND SAND.
- E. DRAINAGE AREA FOR EXISTING DISCHARGE POINT: 38.85± ACRES
DRAINAGE AREA FOR PROPOSED DISCHARGE POINT: 38.85± ACRES
- F. LATITUDE AND LONGITUDE OF 1ST DISCHARGE POINT:
DISCHARGE POINT LAT: 25° 57' 39.18" N
DISCHARGE POINT LONG: 80° 13' 24.64" W
DISCHARGES TO EXISTING CANALS



EROSION DETAILS

— SF — (SF) TEMPORARY SILT FENCE WITH WIRE SUPPORT (SEE SHEET C04.0)

(IP1) INLET PROTECTION (SEE SHEET C04.0)

--- PROPERTY LINE

— PROPOSED LIMITS OF DISTURBANCE

1. SITE DESCRIPTION

A. CONSTRUCTION OF A PUMP STATION WITHIN THE COCONUT CAY COMMUNITY TO RESOLVE CURRENT FLOODING ISSUE.

B. SEQUENCE OF SOIL DISTURBANCE:

- B. SEQUENCE OF SOIL DISTURBANCE:**
 (1) INSTALL PERIMETER SEDIMENT AND EROSION CONTROLS.
 (2) PREPARE SITE.
 (3) CLEAR AND GRUB PROPOSED AREA.
 (4) INSTALL PROPOSED UNDERGROUND STORMWATER AND PUMP STATION.
 (5) INSTALL SOD
 (6) STABILIZE SITE.

TOTAL SITE AREA: 0.025± ACRES

- D. SOILS: SILT, LIMESTONE FRAGMENTS, AND SAND.
- E. DRAINAGE AREA FOR EXISTING DISCHARGE POINT: 20.65± ACRES
DRAINAGE AREA FOR PROPOSED DISCHARGE POINT: 20.65± ACRES
- F. LATITUDE AND LONGITUDE OF 2ND DISCHARGE POINT:
DISCHARGE POINT LAT: 25° 57' 54.96" N
DISCHARGE POINT LONG: 80° 13' 19.59" W
DISCHARGES TO EXISTING CANALS

6200 LEE VISTA BLVD.
SUITE 400
ORLANDO, FL
(407) 896-3317
WWW.NV5.COM

NV5

SHEET

C03.1

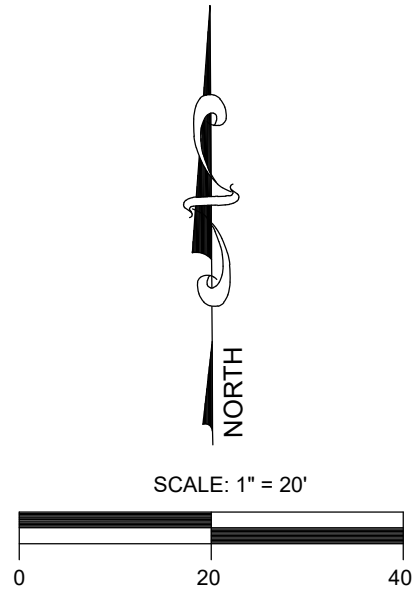
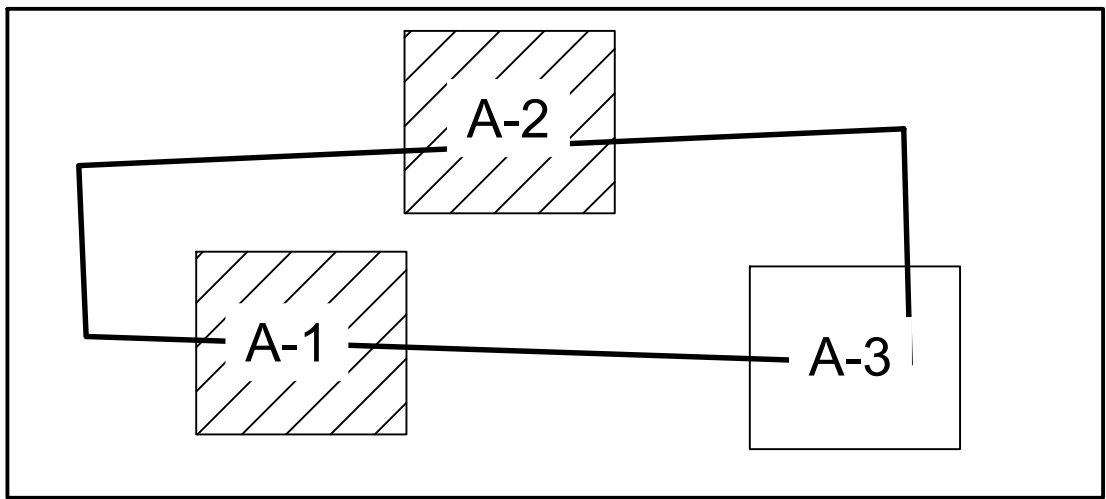
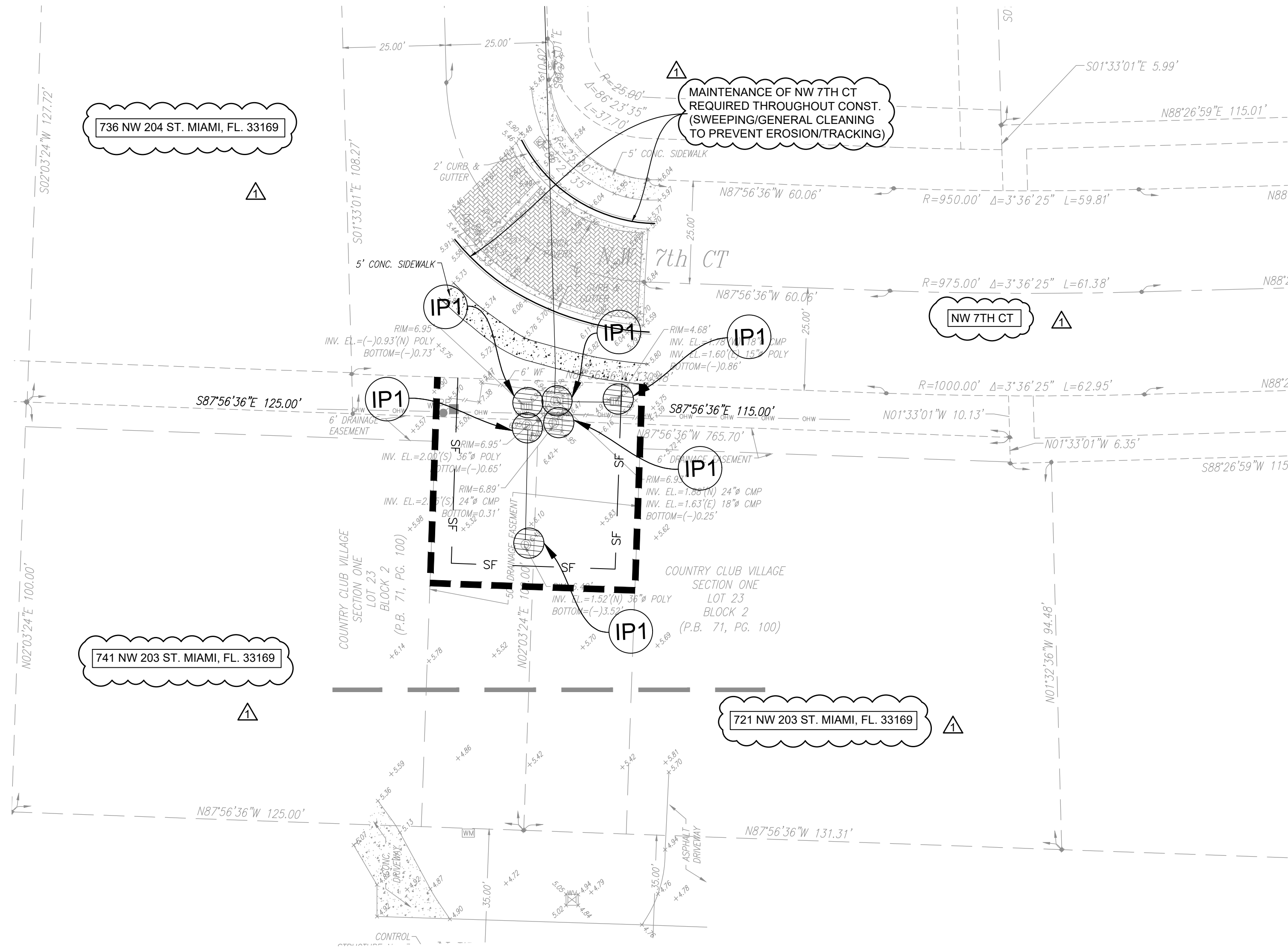
SWPPP PLAN A-2

COCONUT CAY DRAINAGE REMEDIATION
AT
5385 NORTH NOB HILL ROAD
SUNRISE, FLORIDA 33351
FOR

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△		
△		
△		
△		
1	06/24/24	CITY COMMENTS

ENGINEER
SON P. MAHONEY, P.E.
FL. LIC. #65183

JOB #:	22037.20
PRJ. MGR:	FP
DESIGNER:	GCR



- LEGEND**
- EROSION DETAILS
 - SF — (SF) TEMPORARY SILT FENCE WITH WIRE SUPPORT (SEE SHEET C04.0)
 - ⊙ (IP1) INLET PROTECTION (SEE SHEET C04.0)
 - PROPERTY LINE
 - PROPOSED LIMITS OF DISTURBANCE

BEST MANAGEMENT PRACTICES SEQUENCE

1. SITE DESCRIPTION

- A. CONSTRUCTION OF A PUMP STATION WITHIN THE COCONUT CAY COMMUNITY TO RESOLVE CURRENT FLOODING ISSUE.
- B. SEQUENCE OF SOIL DISTURBANCE:
(1) INSTALL PERIMETER SEDIMENT AND EROSION CONTROLS.
(2) PREPARE SITE.
(3) CLEAR AND GRUB PROPOSED AREA.
(4) INSTALL PROPOSED UNDERGROUND STORMWATER AND PUMP STATION.
(5) INSTALL SOD
(6) STABILIZE SITE.
- TOTAL SITE AREA: 0.036± ACRES
- D. SOILS: SILT, LIMESTONE FRAGMENTS, AND SAND.
- E. DRAINAGE AREA FOR EXISTING DISCHARGE POINT: 19.35± ACRES
DRAINAGE AREA FOR PROPOSED DISCHARGE POINT: 19.35± ACRES
- F. LATITUDE AND LONGITUDE OF 3RD DISCHARGE POINT:
DISCHARGE POINT LAT: 25° 57' 39.54" N
DISCHARGE POINT LONG: 80° 12' 53.16" W
DISCHARGES TO EXISTING CANALS

1. CONTROLS

(1) STABILIZATION PRACTICES

- (1) STABILIZATION PRACTICES:
 1. TEMPORARY SEEDING SHALL BE RYE GRASS APPLIED AT MANUFACTURER'S RECOMMENDATIONS TO ANY DISTURBED AREAS THAT ARE INACTIVE FOR SEVEN DAYS.
 2. MULCHING PRACTICES AND SOD SHALL BE APPLIED TO PARKING LOT ISLANDS.
- (2) STRUCTURAL PRACTICES:
 1. PRIOR TO CLEARING, A SILT FENCE SHALL BE INSTALLED AROUND THE PERIMETER OF THE SITE, AS SHOWN HEREIN.
 2. DURING THE CLEARING, GRUBBING, AND SITE GRADING STAGES, AREAS TO BE LEFT DISTURBED MORE THAN 14 DAYS SHALL BE STABILIZED WITH RYE GRASS APPLIED PER THE MANUFACTURER'S SPECIFICATIONS. AFTER SEEDING, EACH AREA SHALL BE MULCHED WITH 4,000 POUNDS OF STRAW PER ACRE.
 3. AFTER ALL INITIAL SITE GRADING WORK, ALL PROPOSED INLETS/OUTFALLS, ONCE INSTALLED SHALL BE PROTECTED FROM EROSION AND SEDIMENT RUNOFF BY THE USE OF THE INLET PROTECTION AND DRAINAGE CONTROL ON THE SITE MAP. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE PERMANENTLY CEASED SHALL BE STABILIZED WITH SEED OR SOD AS INDICATED ON THE SITE MAP NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY. SEEDING SHALL BE THE SAME AS IN TEMPORARY SEEDING.
 4. ALL INSTALLATION SHALL BE COMMENCED AS DEPICTED ON THE SITE MAPS AND EROSION CONTROL SHEET.
 5. IF SEDIMENT AND EROSION CONTROL MEASURES DEVIATE FROM THE PLANS THE CITY OF MIAMI GARDENS SHALL BE NOTIFIED.

1. CATCH BASINS AND STORM SEWER SYSTEM ON-SITE TO PROVIDE POSITIVE DRAINAGE OF THE ENTIRE SITE TO THE DISCHARGE POINT.

1. WASTE DISPOSAL: ALL WASTE WILL BE DISPOSED OF IN AN APPROPRIATE LEGAL MANOR, AND COMPLY WITH CITY OF MIAMI GARDENS ORDINANCES FOR WASTE DISPOSAL AND COMMERCIAL SITE DEVELOPMENT.

2. VEHICLE TRACKING: OFF SITE VEHICLE TRACKING OF SEDIMENTS AND DUST GENERATION WILL BE MINIMIZED VIA BEST POSSIBLE PRACTICES, DAILY SWEEPING AND THE USE OF WATER TO KEEP DUST DOWN.
3. FERTILIZERS, HERBICIDES, AND PESTICIDES: FERTILIZERS AND PESTICIDES WILL BE USED AT A MINIMUM AND IN ACCORDANCE WITH THE MANUFACTURERS' SUGGESTED APPLICATION APPLICATION RATES. THE FERTILIZERS AND PESTICIDES SHALL BE STORED IN A COVERED SHED.

4. TOXIC SUBSTANCES: ALL PAINTS AND OTHER CHEMICALS WILL BE STORED IN A LOCKED COVERED SHED.

5. OTHER: PORT-O-LET'S WILL BE PLACED AWAY FROM THE STORM SEWER SYSTEMS AND STORM INLETS. NO VEHICLE MAINTENANCE SHALL BE CONDUCTED ON-SITE. A WASHDOWN AREA SHALL BE DESIGNATED AT ALL TIMES AND WILL NOT BE LOCATED IN ANY AREA THAT WILL ALLOW FOR THE DISCHARGE OF POLLUTED RUNOFF. A SMALL VEGETATED BERM SHALL BE PLACED AROUND THE WASHDOWN AREA.

1. SILT FENCE SHALL BE INSPECTED AT LEAST WEEKLY. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY. SEDIMENT DEPOSITS SHALL BE REMOVED WHEN THEY REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
2. DRAINAGE SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAIN EVENT AND ANY REPAIRS SHALL BE PERFORMED IMMEDIATELY.
3. BARE AREAS OF THE SITE THAT WERE PREVIOUSLY SEEDED SHALL BE RE-SEEDED PER MANUFACTURER'S INSTRUCTIONS.
4. ALL MATERIALS THAT HAVE BEEN WASHED OUT SHALL BE REPLACED IMMEDIATELY.
5. DEWATERING ACTIVITIES SHALL NOT RESULT IN ANY DISCHARGE OF WATER WITH TURBIDITY GREATER THAN 25 NTUS FROM THE SITE. IF ANALYTICAL RESULTS FROM GROUNDWATER SAMPLES DETERMINE THAT THE SITE IS CONTAMINATED, A CITY WASTEWATER INDUSTRIAL WASTE TREATMENT AND DISPOSAL PERMIT MUST BE OBTAINED FOR PROPER DISPOSAL INTO CITY SANITARY SYSTEM.

ALL MEASURES ON THIS SITE MAP, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. CONTROLS ARE TO BE REPLACED OR REPAIRED IF IN A SUBSTANDARD CONDITION. ALL MAINTENANCE MODIFICATIONS ARE TO BE NOTED, ON PLANS, AS THEY OCCUR.

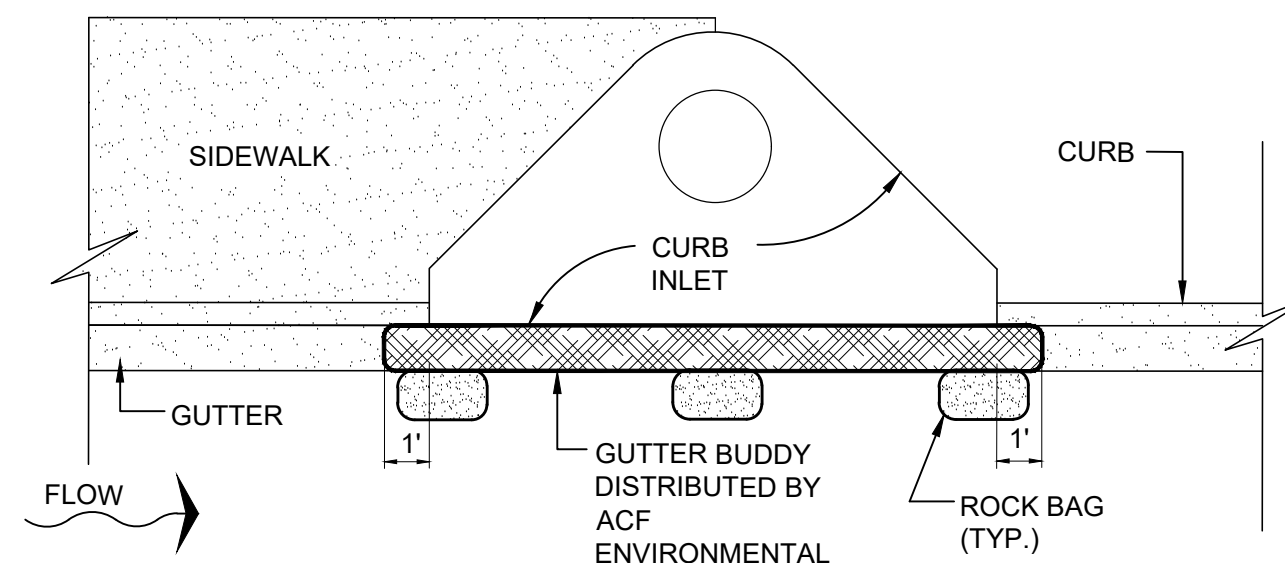
- 1.1. A QUALIFIED INSPECTOR SHALL INSPECT ALL POINTS OF DISCHARGE INTO SURFACE WATERS OF THE STATE AND MS4 (CITY OF MIAMI GARDENS); DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED; AREAS USED FOR STORAGE OF MATERIALS THAT ARE NOT PROPERLY COVERED; EROSION CONTROL MEASURES, CONTROLS; AND, LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE, AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.50 INCHES OR GREATER. A REPORT SUMMARIZING THE SCOPE OF THE INSPECTION SHALL BE SUBMITTED TO THE CONTRACTOR AND THE CONSTRUCTION TRAILER AS PART OF THE STORMWATER POLLUTION PREVENTION.
- 1.2. INSPECTIONS BY THE CONTRACTOR TO DETERMINE THE EFFECTIVENESS OF EROSION/SEDIMENT CONTROL EFFORTS SHALL BE CONDUCTED DAILY AND WITHIN 24 HOURS AFTER EACH 0.50 INCH OR GREATER RAINFALL EVENT. ANY NECESSARY REMEDIES SHALL BE PERFORMED IMMEDIATELY.

IT IS ANTICIPATED THAT THE FOLLOWING NON-STORMWATER DISCHARGES MAY OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD:

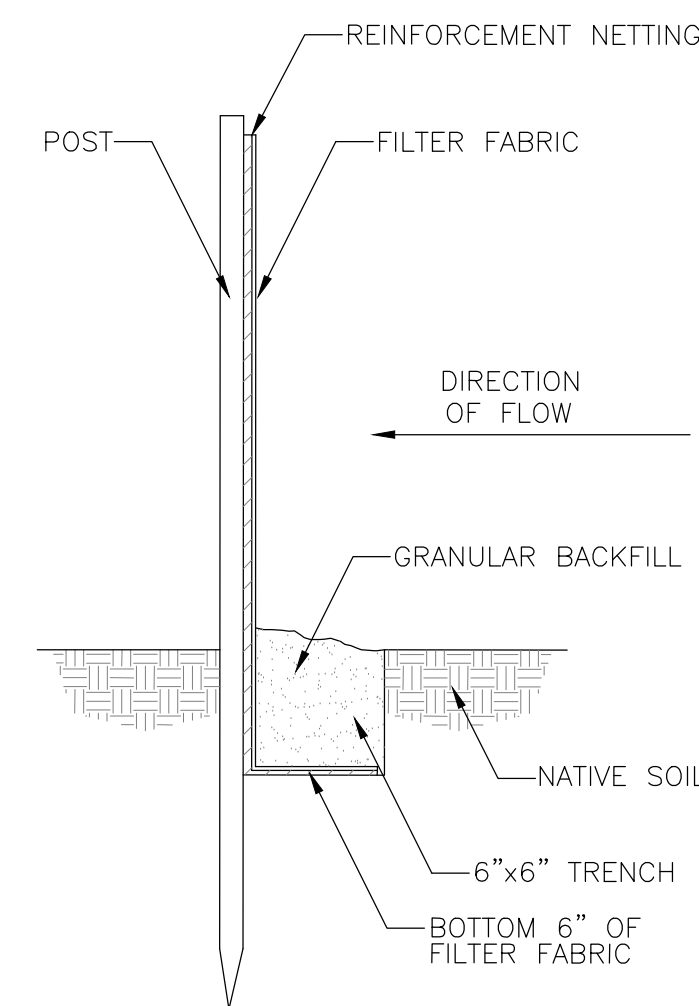
2. PAVEMENT WASH WATER (WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE OCCURRED)
4. SITE WATERING, TO ALLEVIATE FUGATIVE DUST
5. ROUTINE EXTERNAL BUILDING WASHDOWN WHICH DOES NOT USE DETERGENTS
6. IRRIGATION DRAINAGE

IF SAID DISCHARGES DO OCCUR, THEY WILL BE DIRECTED TO THE TEMPORARY EROSION CONTROL MEASURES PRIOR TO DISCHARGE

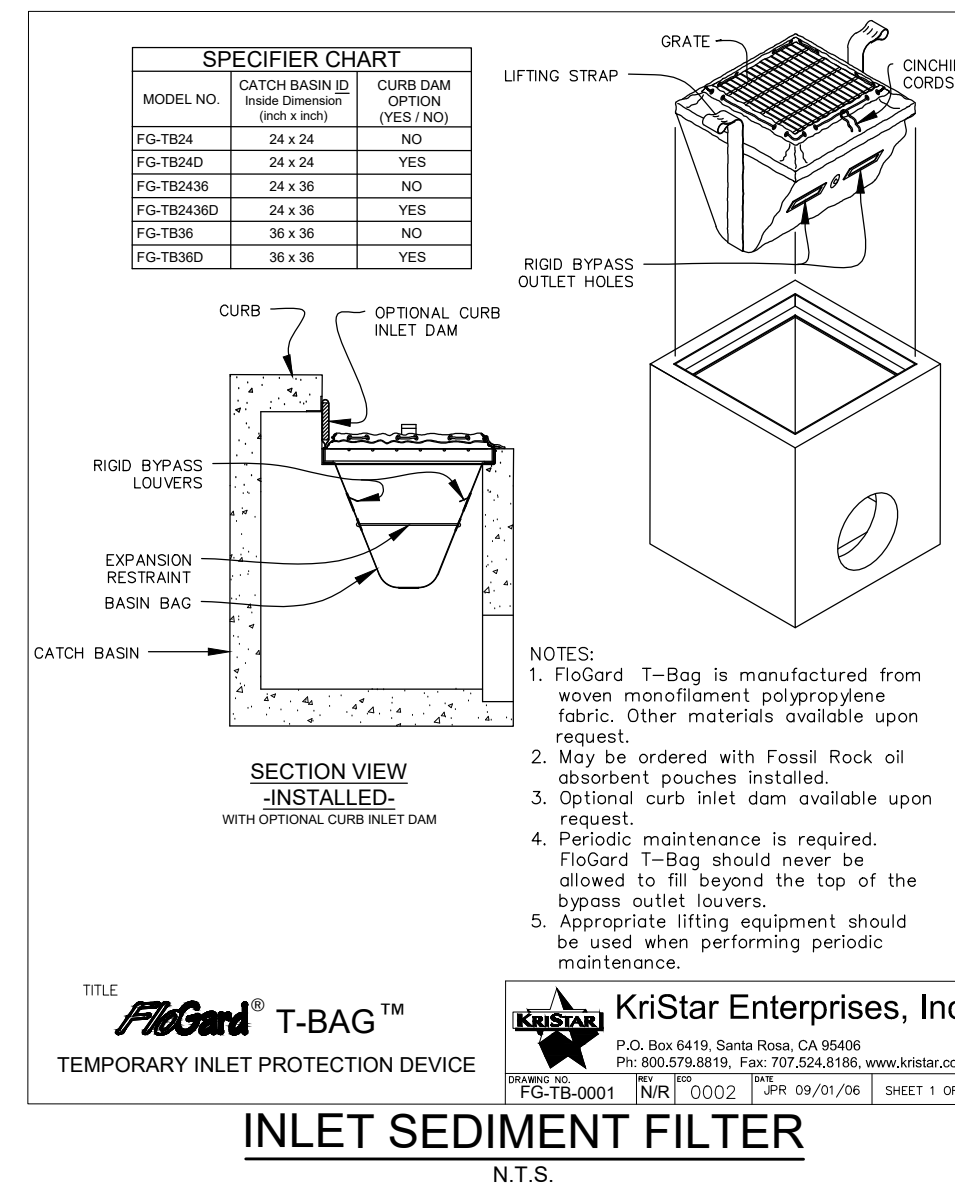
ALL CONTRACTOR(S) AND SUBCONTRACTOR(S) IDENTIFIED ABOVE MUST SIGN THE FOLLOWING CERTIFICATION: "I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND, AND SHALL COMPLY WITH, THE TERMS AND CONDITIONS OF THE STATE OF FLORIDA GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES AND THIS STORMWATER POLLUTION PREVENTION PLAN PREPARED THERE UNDER."



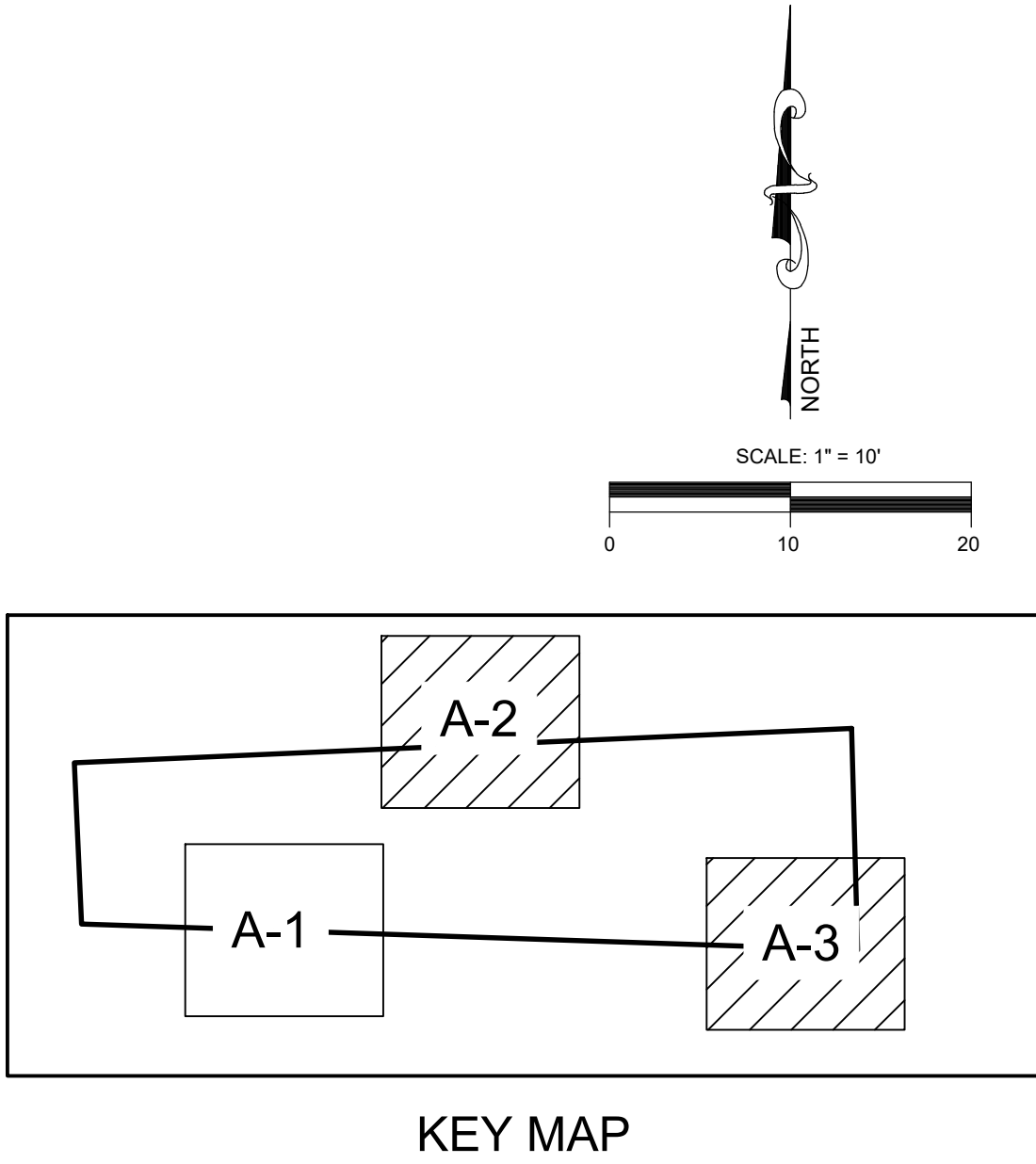
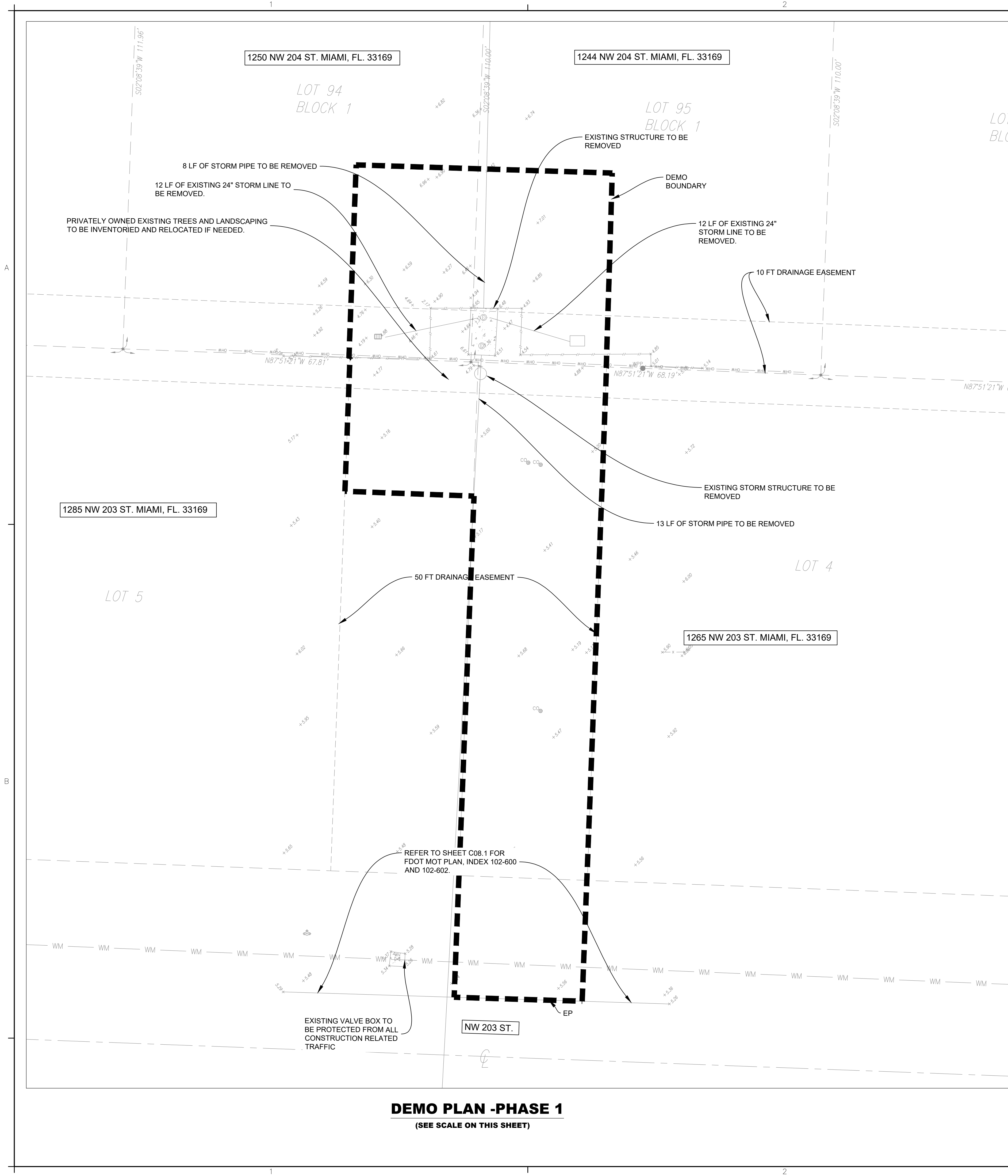
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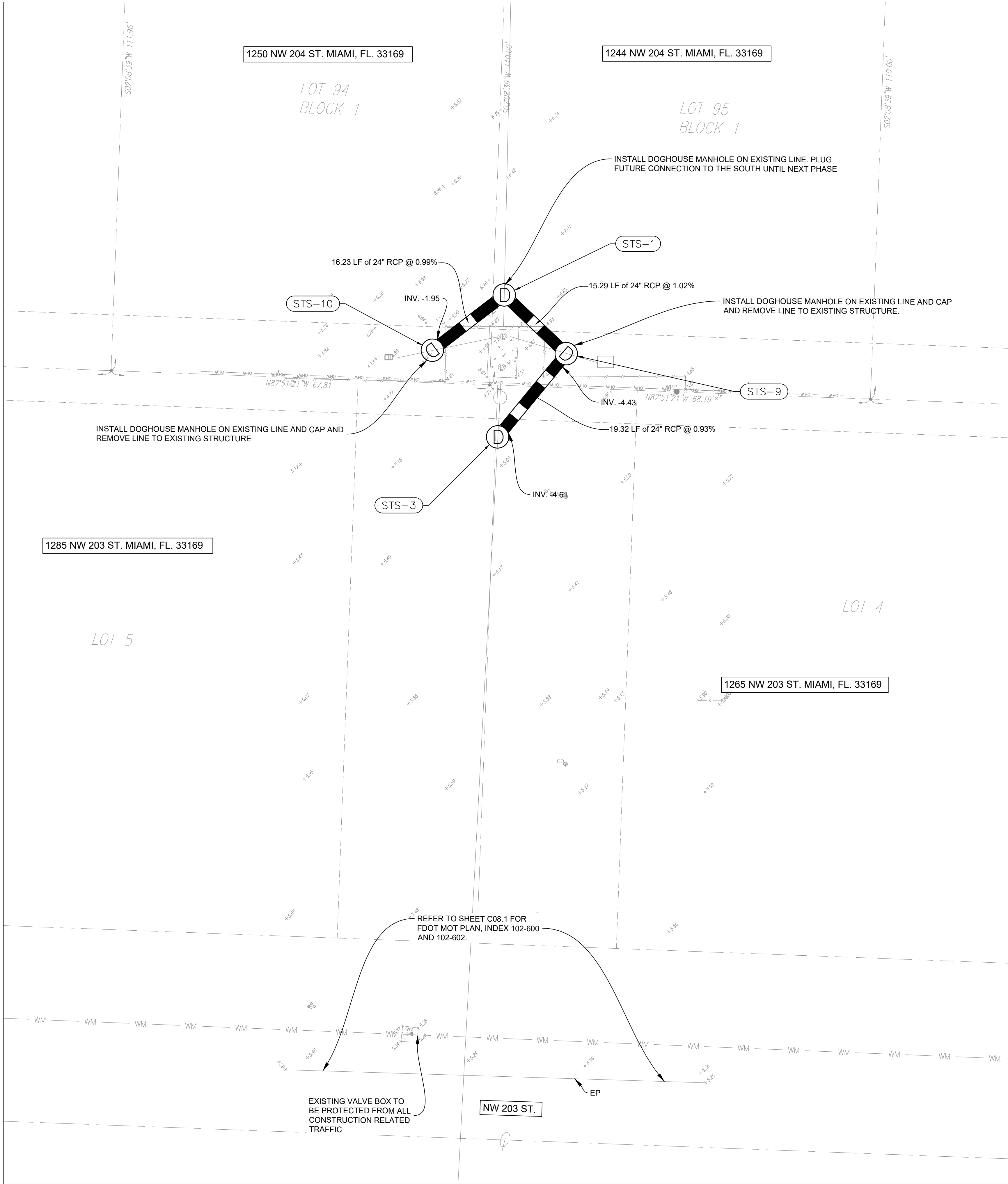
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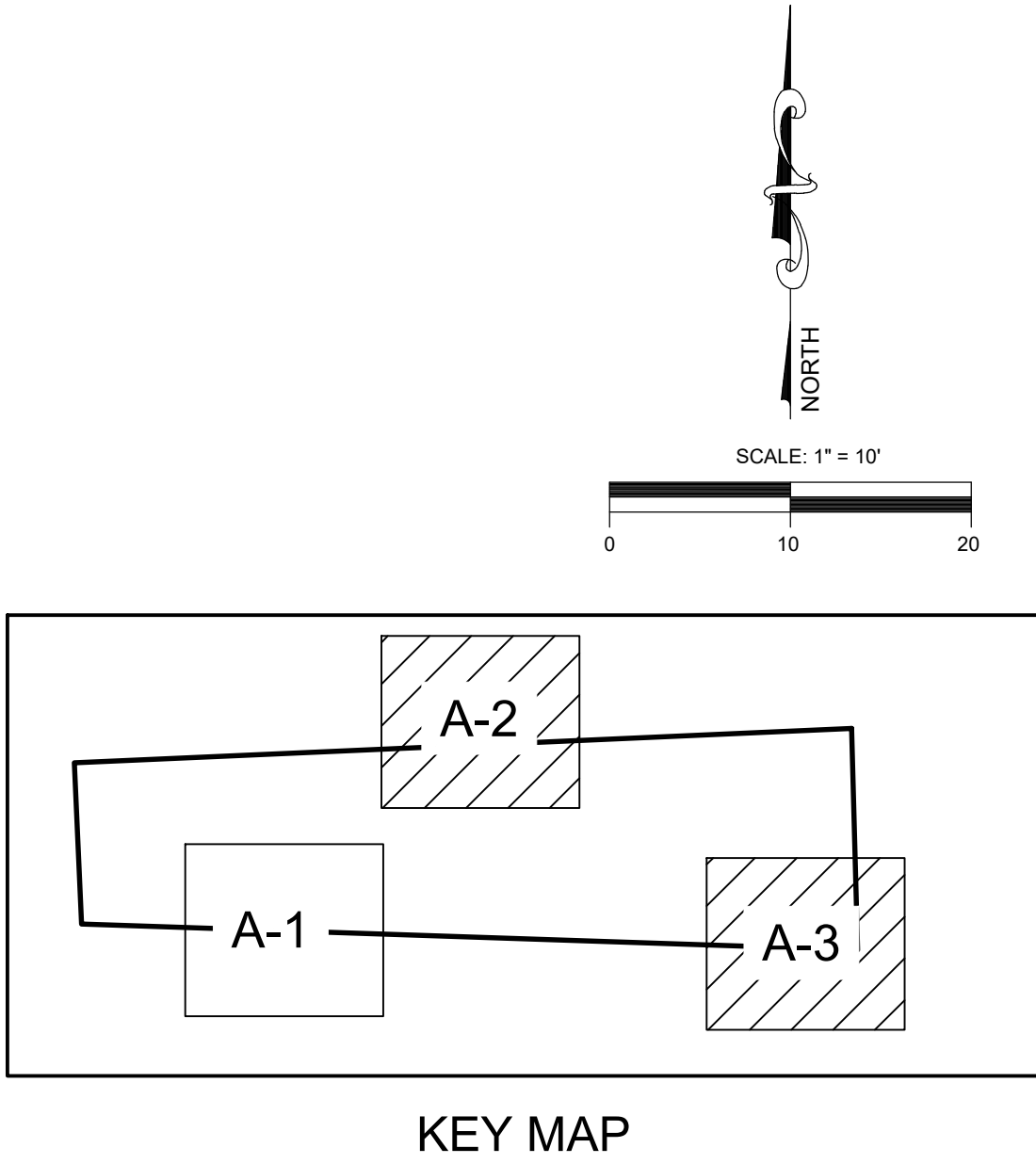
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NV5 6200 LEE VISTA BLVD. SUITE 400 ORLANDO, FL (407) 896-3317 WWW.NV5.COM CERTIFICATE OF AUTHORIZATION # 29065	A-1 DEMO PLAN	COCONUT CAY DRAINAGE REMEDIATION AT 5385 NORTH NOB HILL ROAD SUNRISE, FLORIDA 33351 FOR COCONUT CAY COMMUNITY DEVELOPMENT DISTRICT	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△
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TEMPORARY SITE PLAN -PHASE 1
(SEE SCALE ON THIS SHEET)



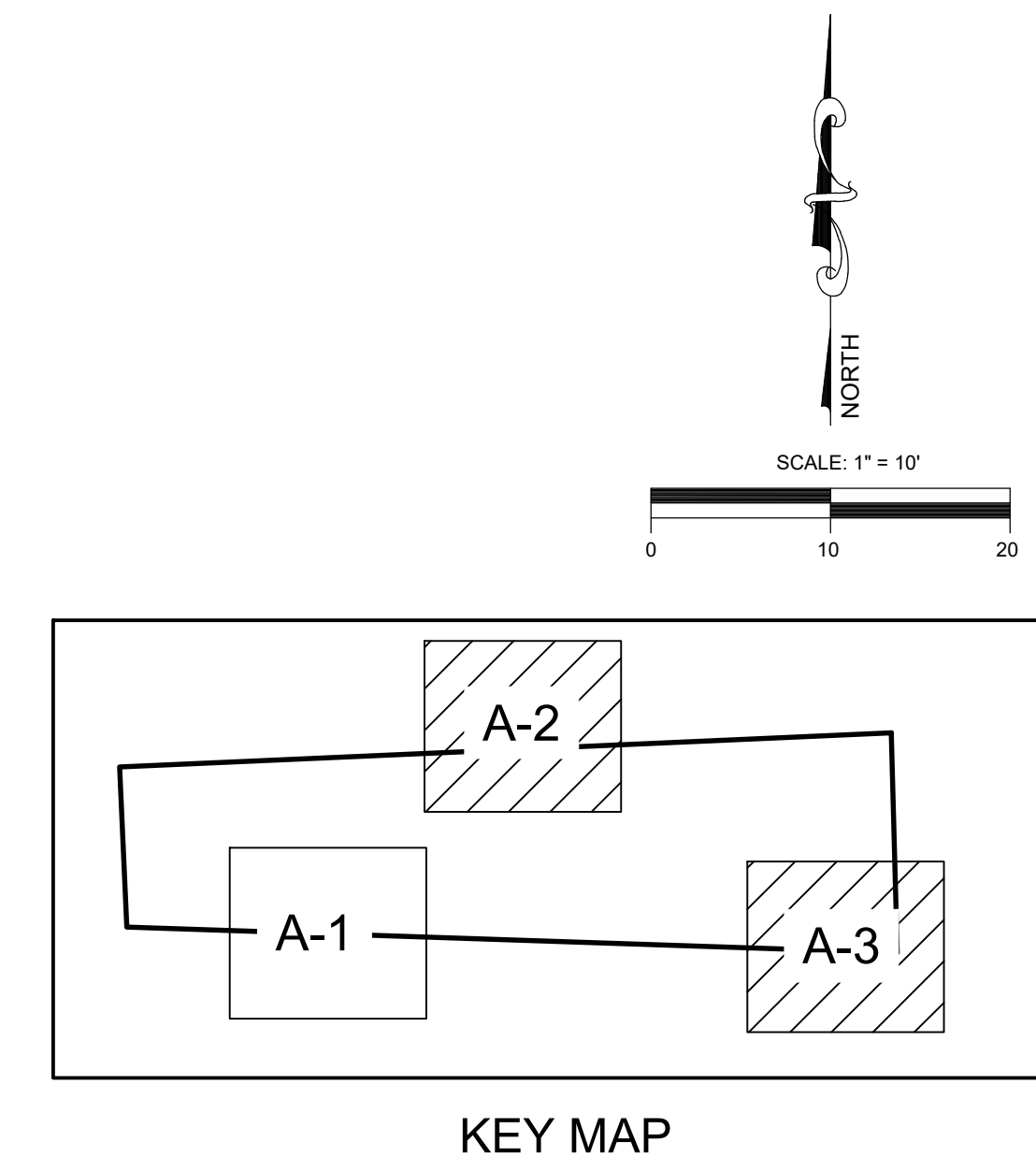
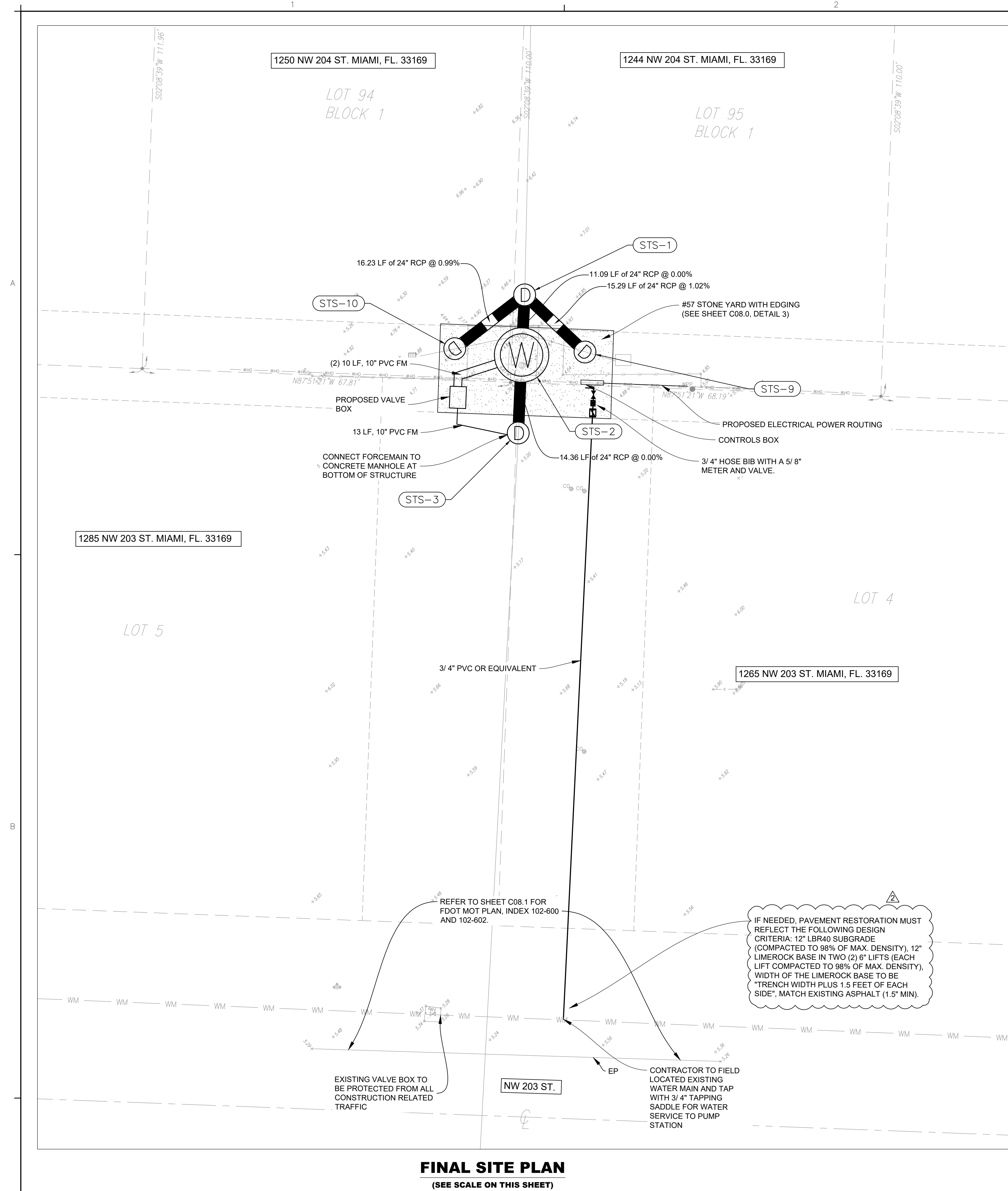
STORM SEWER SCHEDULE								
STR NO.	STR TYPE	GRATE/ RIM/EOP ELEV	DOWNSREAM STR NO.	INVERTS IN	INVERTS OUT	DS PIPE LENGTH	PIPE SIZE/ MATERIAL	SLOPE
STS-1	PROPOSED DOGHOUSE MH OVER EXIST. 24" PIPE	5.66	STS-2 STS-9		-1.86' S -4.17' SW -4.17' SE	11' 16' 15'	24" RCP 24" RCP 24" RCP	0.00% 0.99% 1.02%
STS-2	PROPOSED WET WELL. SEE PUMP DESIGN SHEET C07.0 FOR MORE DETAIL.	6.00		-1.86' N -1.15' S				
STS-3	PROPOSED DOGHOUSE MH	5.00	STS-2	-4.61' NE	-1.15' N	14'	24" RCP	0.00%
STS-9	PROPOSED DOGHOUSE MH	5.00	STS-3	-4.32' NW	-4.43' SW	19'	24" RCP	0.93%
STS-10	PROPOSED DOGHOUSE MH	3.05		-4.33' NE				

NO.	DATE	CITY COMMENTS	REVISIONS

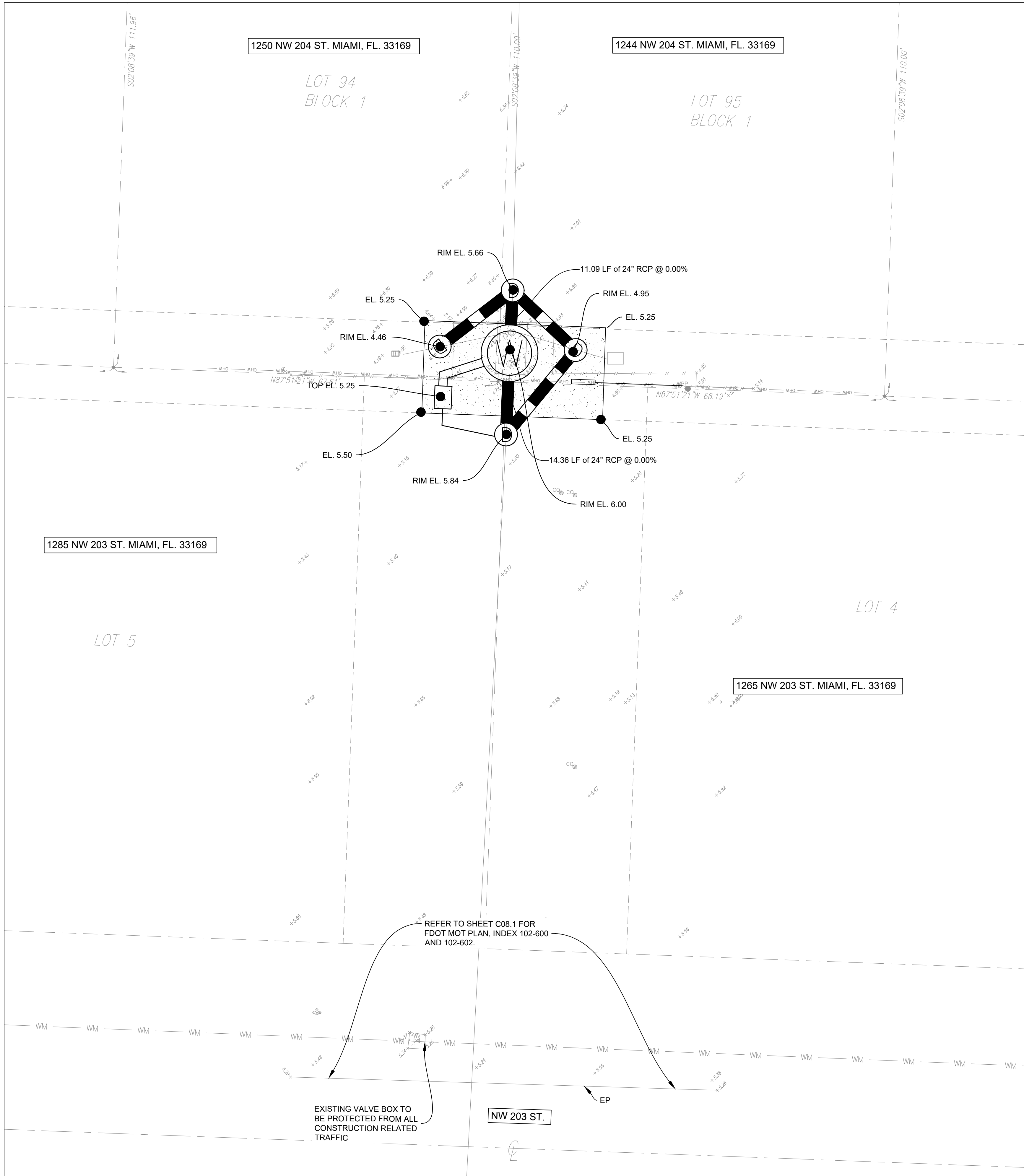
ENGINEER
JASON P. MAHONEY, P.E.
FL LIC. #51563

DATE: Mar. 18, 2025

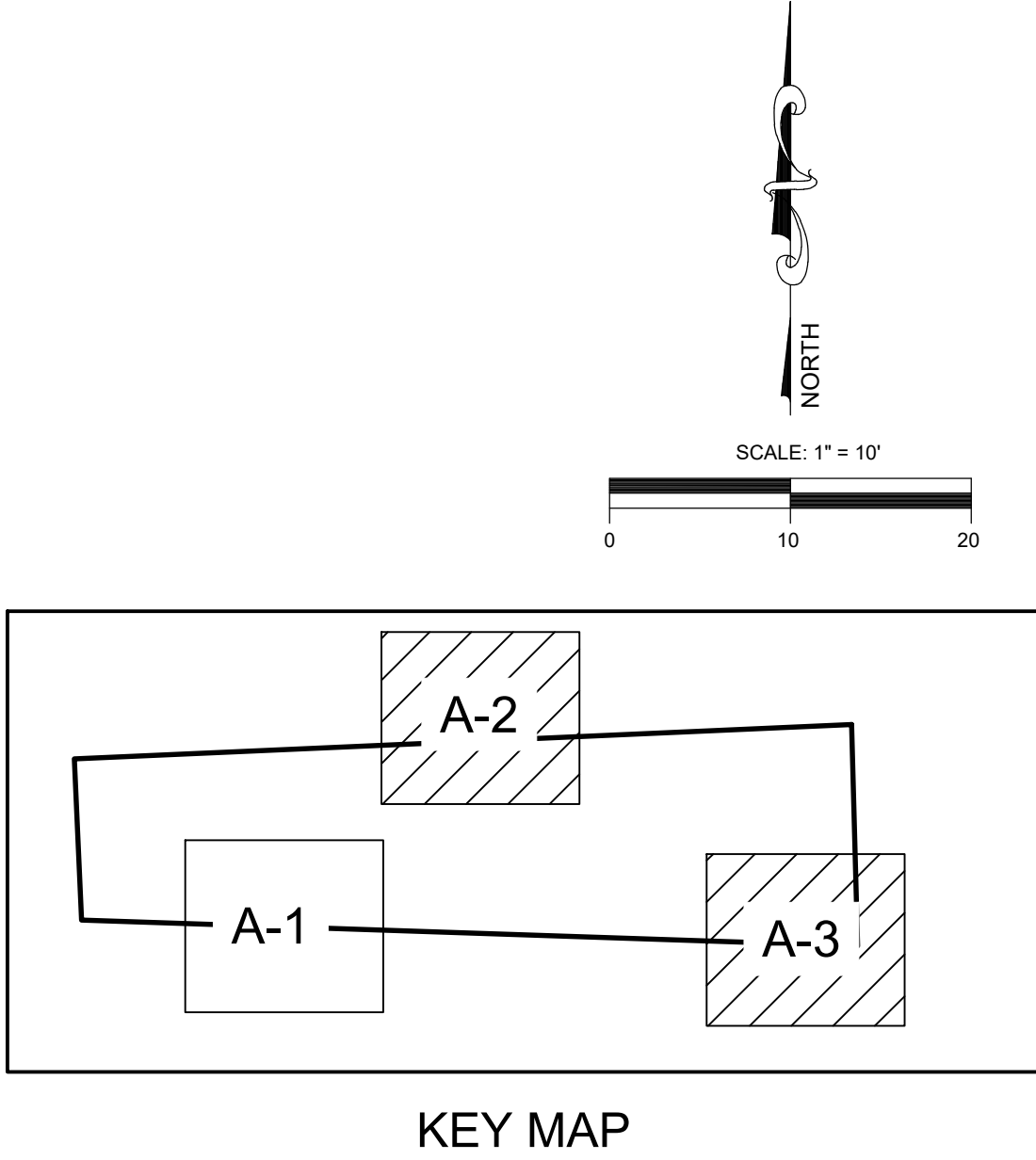
JOB # : 22037.20
PRJ. MGR: FP
DESIGNER: GCR
CHECKED: FP



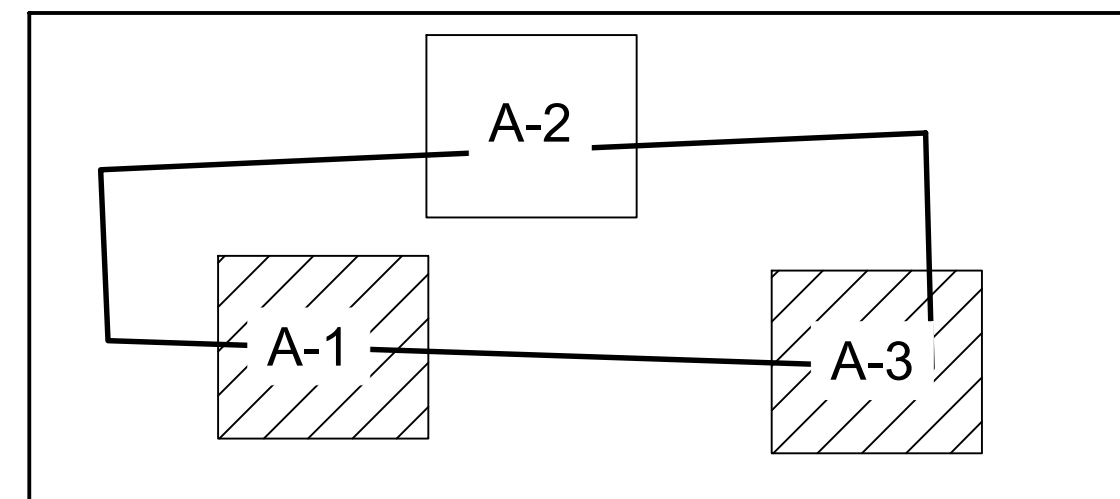
STORM SEWER SCHEDULE								
STR NO.	STR TYPE	GRATE/ RIM/EOP ELEV	DOWNSTREAM STR NO.	INVERTS IN	INVERTS OUT	DS PIPE LENGTH	PIPE SIZE/ MATERIAL	SLOPE
STS-1	PROPOSED DOGHOUSE MH OVER EXIST. 24" PIPE	5.66	STS-2 STS-10 STS-9		-1.86' S -4.17' SW -4.17' SE	11' 16' 15'	24" RCP 24" RCP 24" RCP	0.00% 0.99% 1.02%
STS-2	PROPOSED WET WELL. SEE PUMP DESIGN SHEET C07.0 FOR MORE DETAIL.	6.00		-1.86' N -1.15' S				
STS-3	PROPOSED DOGHOUSE MH	5.00	STS-2	-4.61' NE	-1.15' N	14'	24" RCP	0.00%
STS-9	PROPOSED DOGHOUSE MH	5.00	STS-3	-4.32' NW	-4.43' SW	19'	24" RCP	0.93%
STS-10	PROPOSED DOGHOUSE MH	3.05		-4.33' NE				



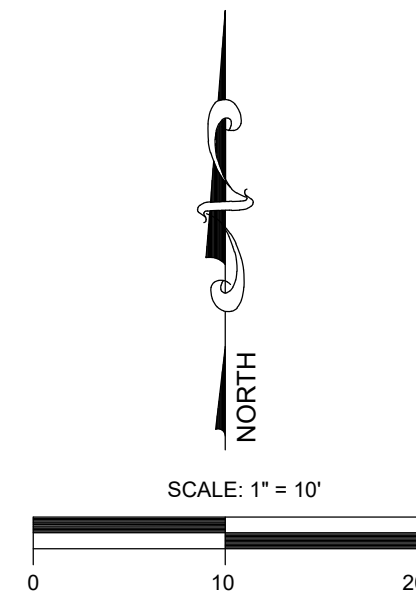
GRADING PLAN
(SEE SCALE ON THIS SHEET)



JOB #: 22037.20		ENGINEER JASON P. MAHONEY, P.E. FL LIC. #51563	
PRJ. MGR. FP	DESIGNER: GCR	DATE: Mar. 18, 2025	
CHECKED: FP		NO. DATE	
CITY COMMENTS		REVISIONS	
COCOONUT CAY DRAINAGE REMEDIATION		AT 5385 NORTH NOB HILL ROAD SUNRISE, FLORIDA 33351	
FOR COCOONUT CAY COMMUNITY DEVELOPMENT DISTRICT		A-1 GRADING PLAN	
6200 LEE VISTA BLVD. SUITE 400 ORLANDO, FL (407) 896-3317 WWW.NVIS.COM		CERTIFICATE OF AUTHORIZATION # 25065	
SHEET		C05.3	



KEY MAP



SHEET

C06.0

6200 LEE VISTA BLVD.
SUITE 400
ORLANDO, FL
(407) 886-3317
WWW.NVS.COM

22037.20\CONSTR\22037.20 C05.0 SITE PLAN.dwg Mar 18, 2006

CERTIFICATE OF AUTHORIZATION # 29065

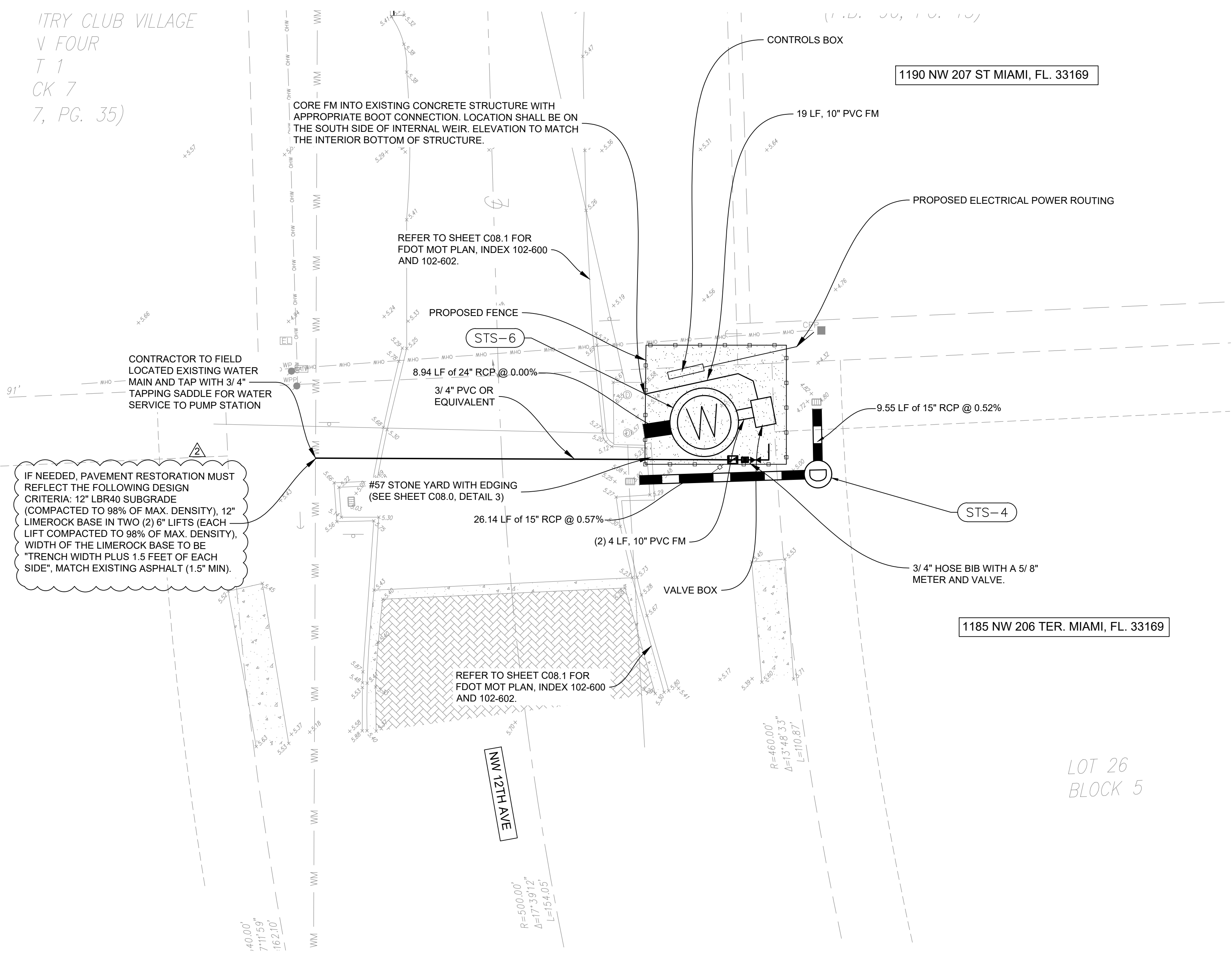
A-2 DEMO PLAN

COCONUT CAY DRAINAGE REMEDIATION
AT
5385 NORTH NOB HILL ROAD
SUNRISE, FLORIDA 33351
FOR
COCONUT CAY COMMUNITY DEVELOPMENT DISTRICT

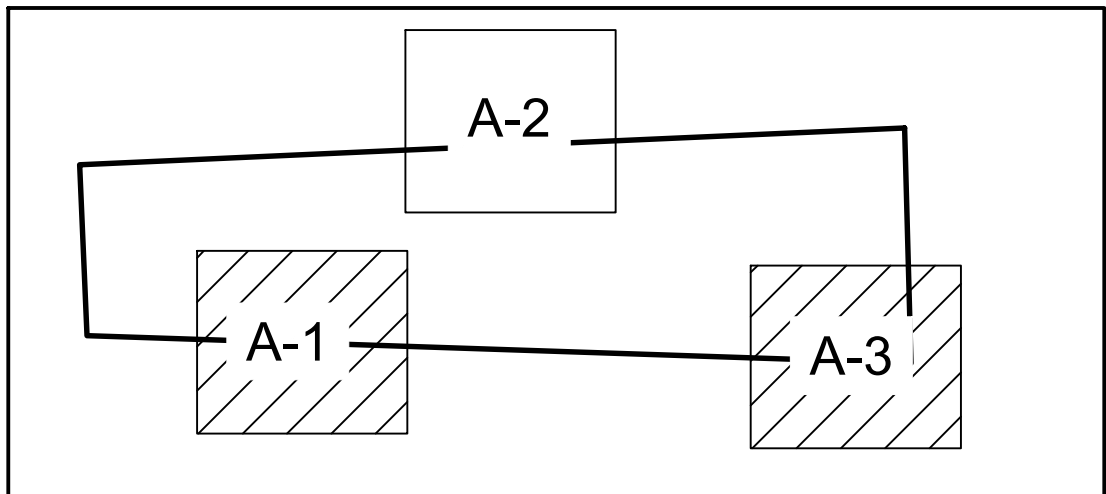
△			
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△			
△			
△	06/24/24	CITY COMMENTS	
NO.	DATE	REVISIONS	

DATE: Mar. 18, 2025

JOB #: 22037.20
PRJ. MGR: FP
DESIGNER: GCR
CHECKED: FP

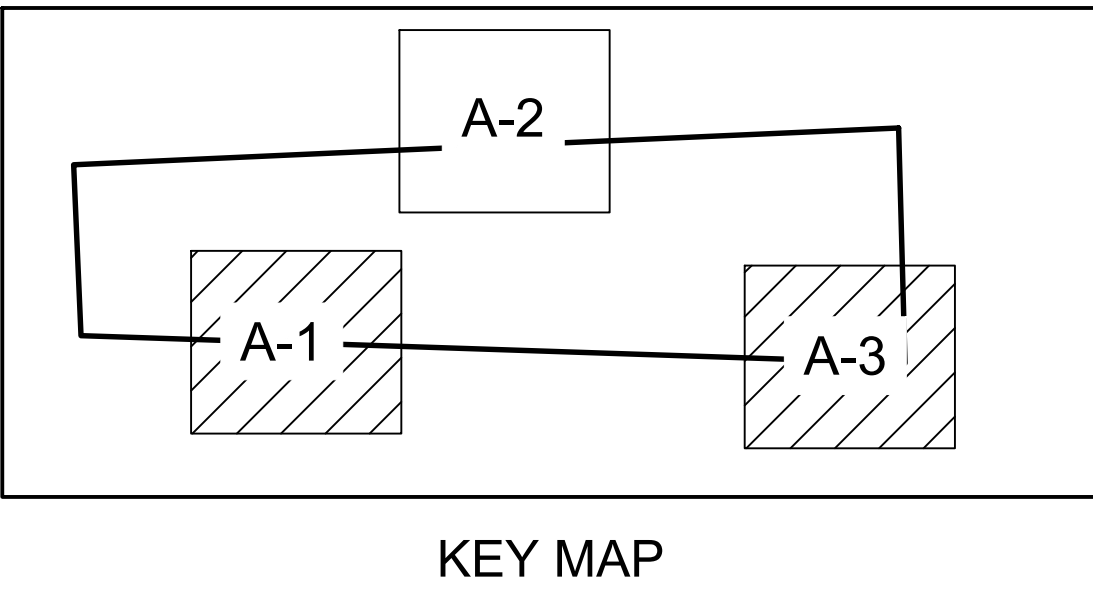
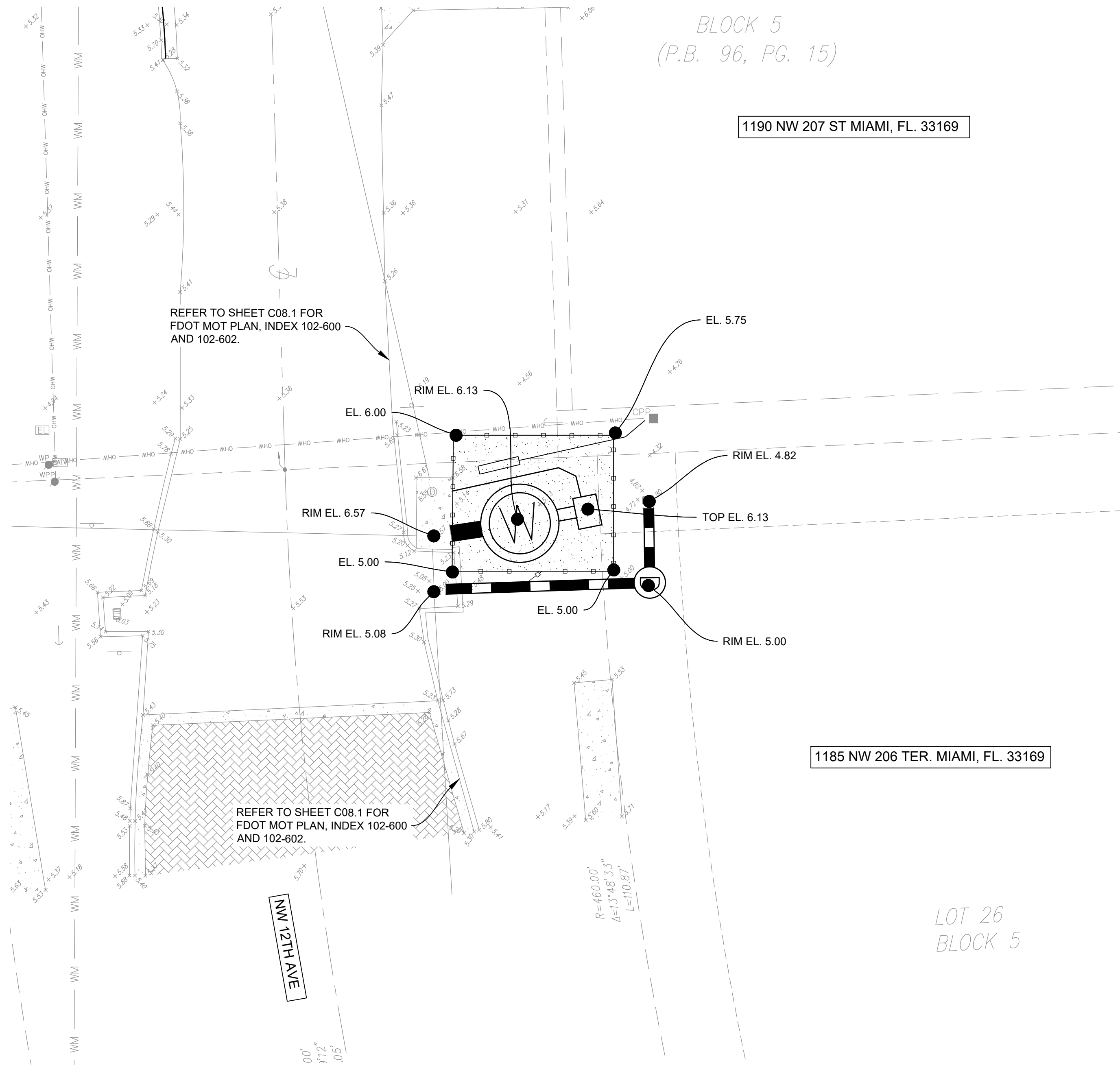


FINAL SITE PLAN
(SEE SCALE ON THIS SHEET)



KEY MAP

STORM SEWER SCHEDULE							
STR NO.	STR TYPE	GRATE/ RIM/EOP ELEV	DOWNSTREAM STR NO.	INVERTS IN	INVERTS OUT	DS PIPE LENGTH	PIPE SIZE/ MATERIAL
STS-4	PROPOSED MH	5.00		1.65' N	1.60' W	26'	15" RCP
STS-6	PROPOSED WET WELL. SEE PUMP DESIGN SHEET C07.1 FOR MORE DETAIL.	6.13		2.50' W			



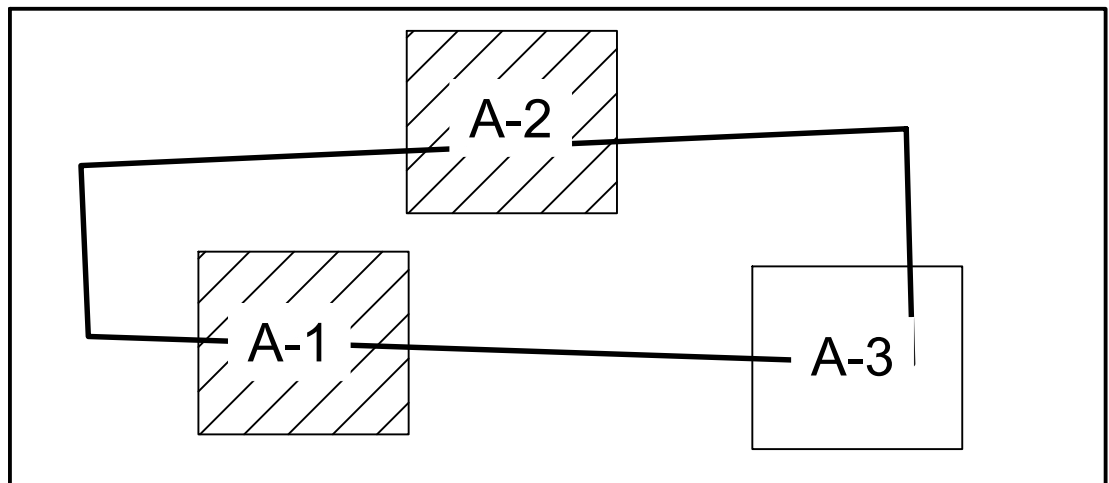
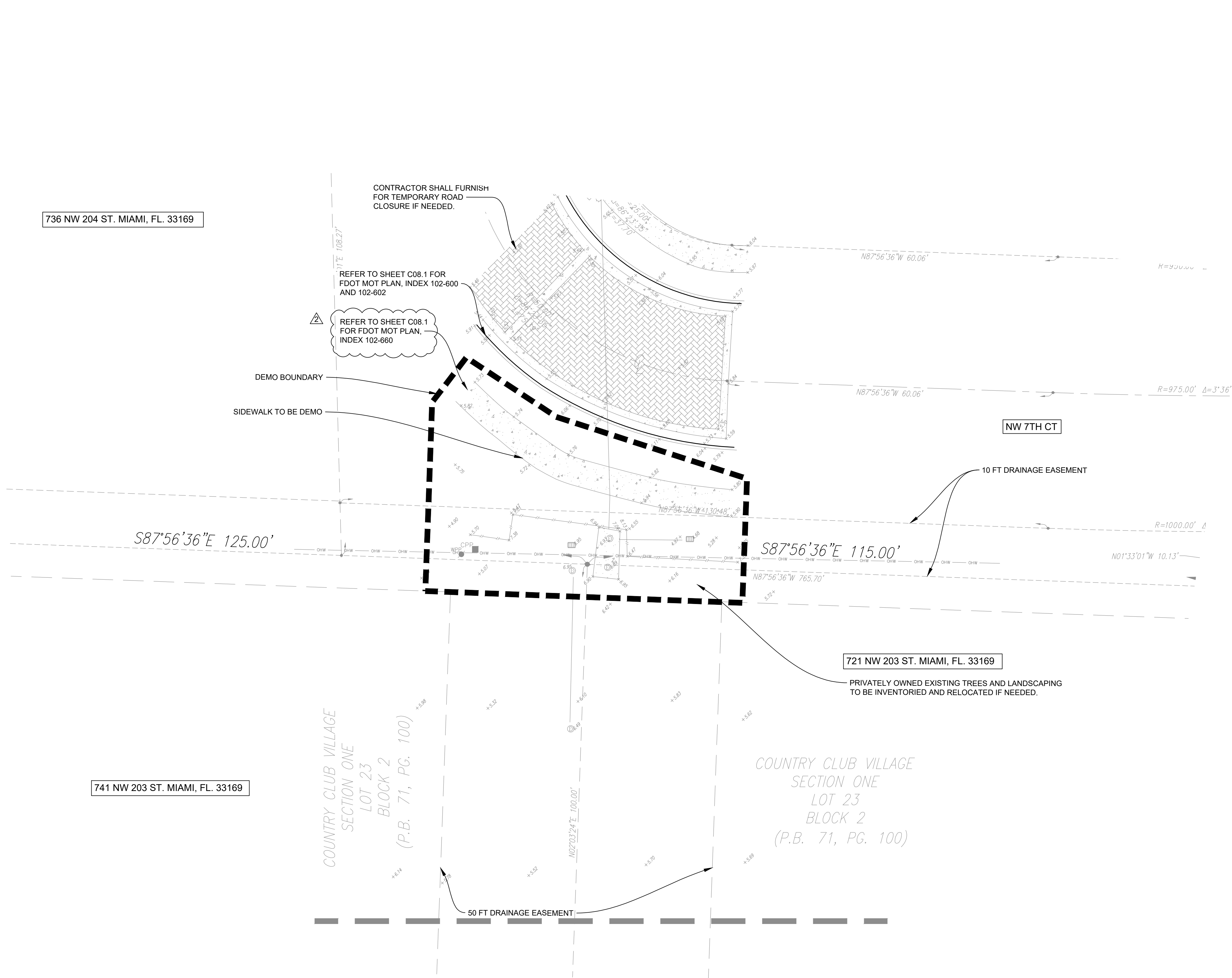
GRADING PLAN
(SEE SCALE ON THIS SHEET)

NO.	DATE	CITY COMMENTS	REVISIONS
1	06/24/24		

ENGINEER
JASON P. MAHONEY, P.E.
FL LIC. #51563

JOB #: 22037.20
PRJ. MGR: FP
DESIGNER: GCR
CHECKED: FP

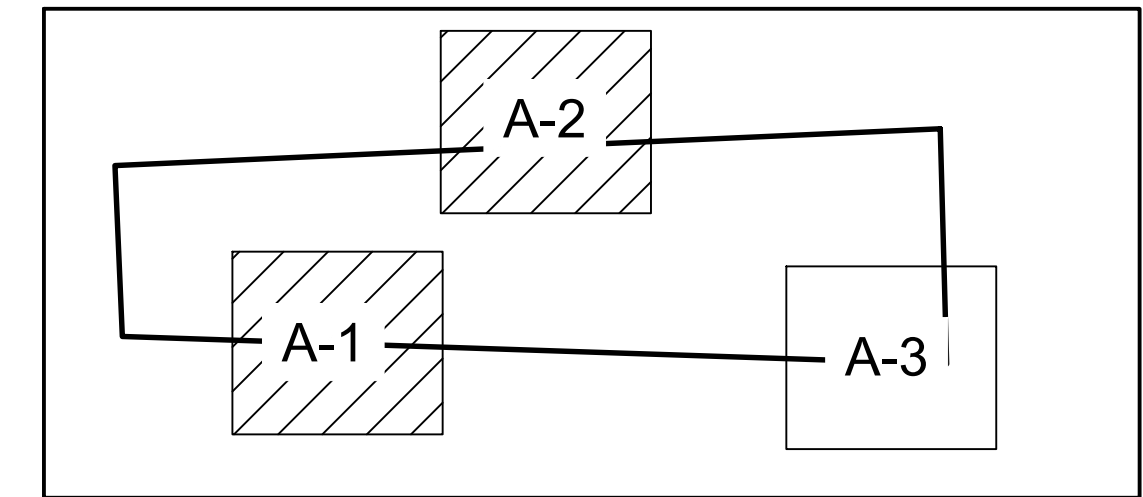
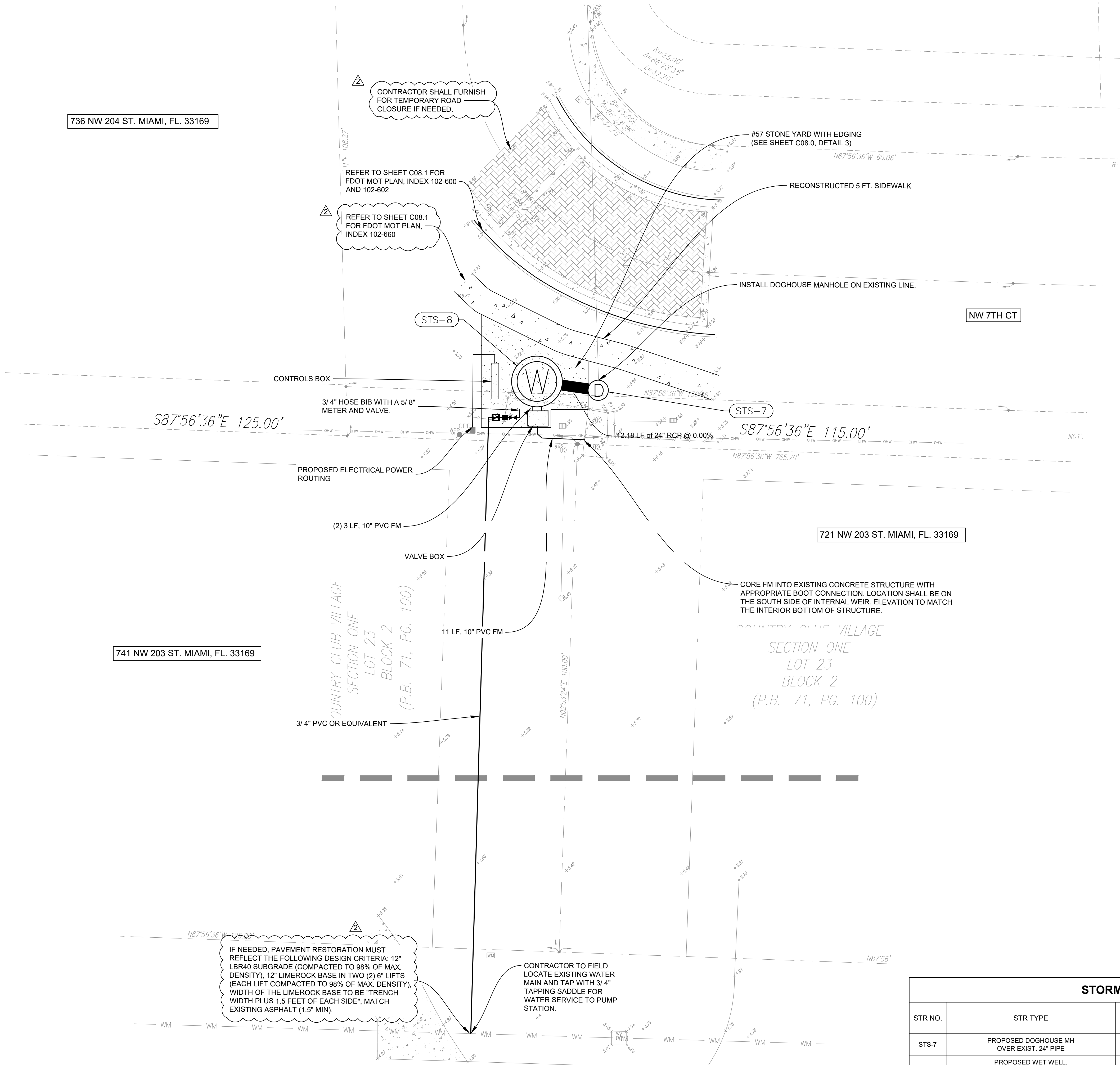
DATE: Mar. 18, 2025



KEY MAP

DEMO PLAN -PHASE 1
(SEE SCALE ON THIS SHEET)

NV5 6200 LEE VISTA BLVD. SUITE 400 ORLANDO, FL (407) 896-3317 WWW.NV5.COM	SHEET C07.0	COCONUT CAY DRAINAGE REMEDIATION AT 5385 NORTH NOB HILL ROAD SUNRISE, FLORIDA 33351 FOR COCONUT CAY COMMUNITY DEVELOPMENT DISTRICT	A-3 DEMO PLAN	ENGINEER JASON P. MAHONEY, P.E. FL LIC. #51563	JOB #: 22037.20
					PRJ. MGR: FP
CERTIFICATE OF AUTHORIZATION # 25065 O:\22037.20\CONST\22037.20_C05.0_SITE_PLAN.dwg - Mar 18, 2025 - 3:09pm	DATE: Mar 18, 2025	DESIGNER: GCR	CHECKED: FP	DATE: Mar 18, 2025	REVISIONS
					NO.



KEY MAP

STORM SEWER SCHEDULE								
STR NO.	STR TYPE	GRATE/ RIM/EOP ELEV	DOWNSTREAM STR NO.	INVERTS IN	INVERTS OUT	DS PIPE LENGTH	PIPE SIZE/ MATERIAL	SLOPE
STS-7	PROPOSED DOGHOUSE MH OVER EXIST. 24" PIPE	7.20	STS-8		2.50' W	12'	24" RCP	0.00%
STS-8	PROPOSED WET WELL SEE PUMP DESIGN SHEET C07.2 FOR MORE DETAIL.	6.75		2.50' E				

FINAL SITE PLAN
(SEE SCALE ON THIS SHEET)

6200 LEE VISTA BLVD.
SUITE 400
ORLANDO, FL
(407) 896-5317
WWW.NV5.COM

NV5

CERTIFICATE OF AUTHORIZATION # 29065

COCONUT CAY DRAINAGE REMEDIATION
AT
5385 NORTH NOB HILL ROAD
SUNRISE, FLORIDA 33351
FOR
COCONUT CAY COMMUNITY DEVELOPMENT DISTRICT

A-3 FINAL SITE PLAN

SHEET
C07.1

JOB #: 22037.20
PRJ. MGR: FP
DESIGNER: GCR
CHECKED: FP

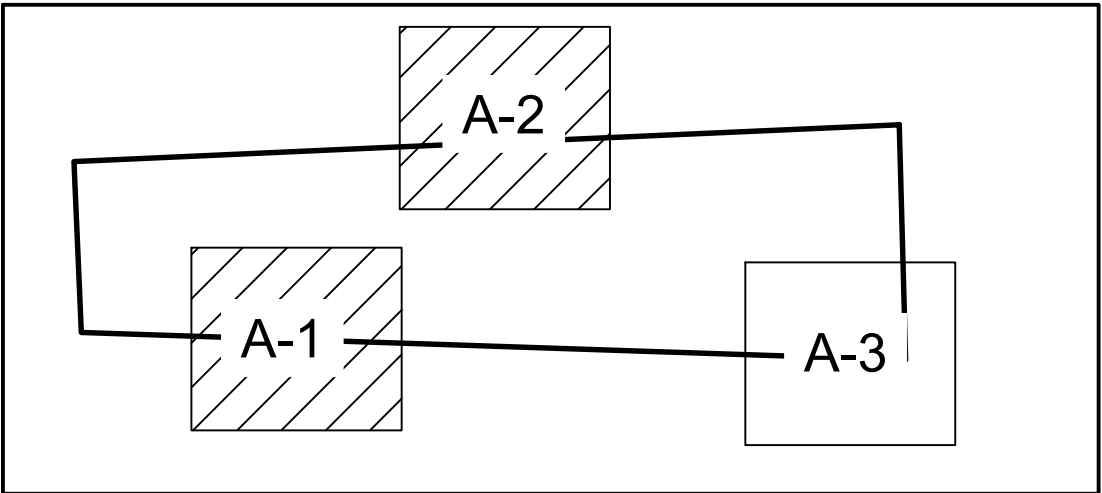
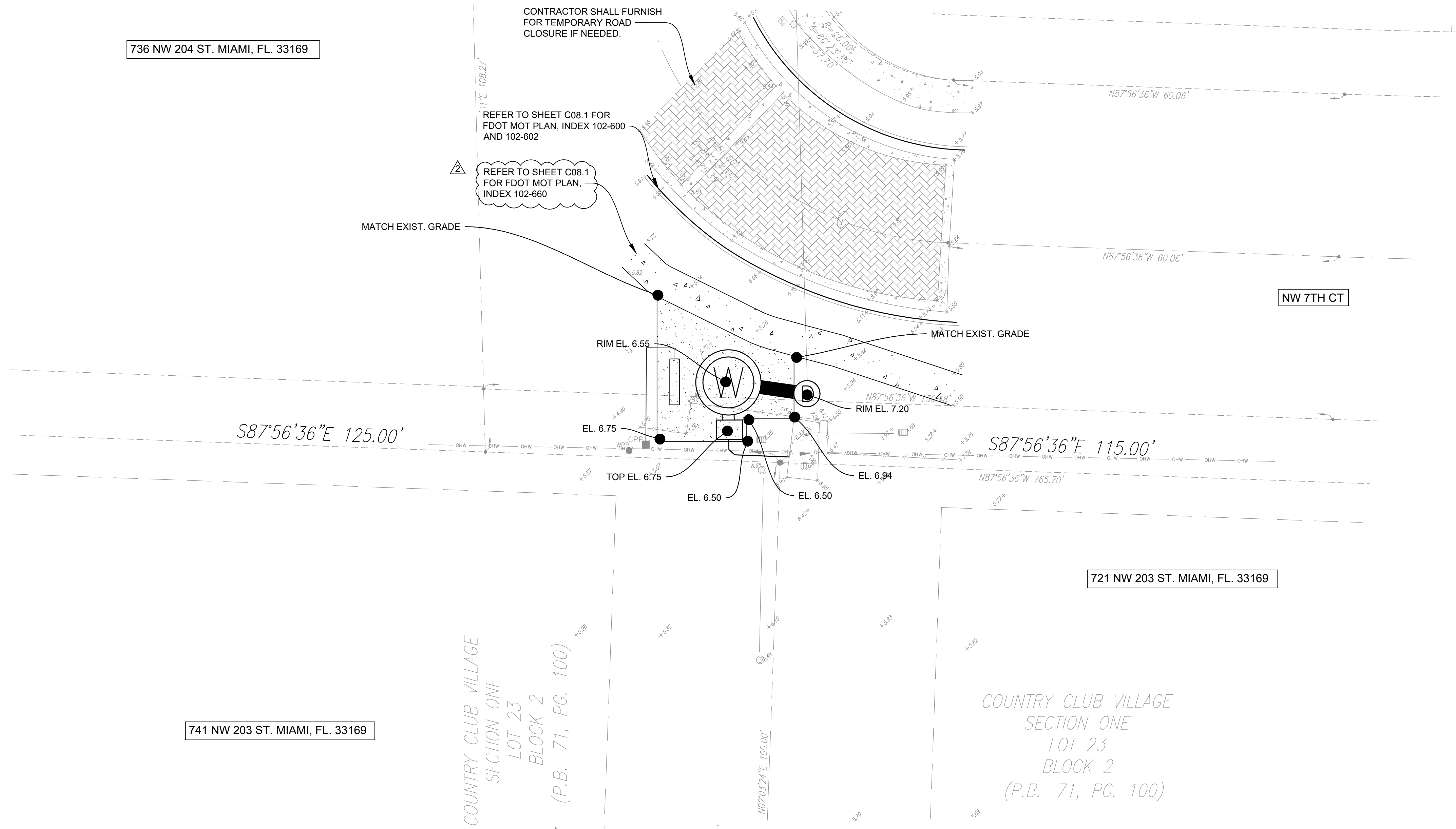
ENGINEER
JASON P. MAHONEY, P.E.
FL LIC. #51563

DATE: Mar. 18, 2025

NO. DATE

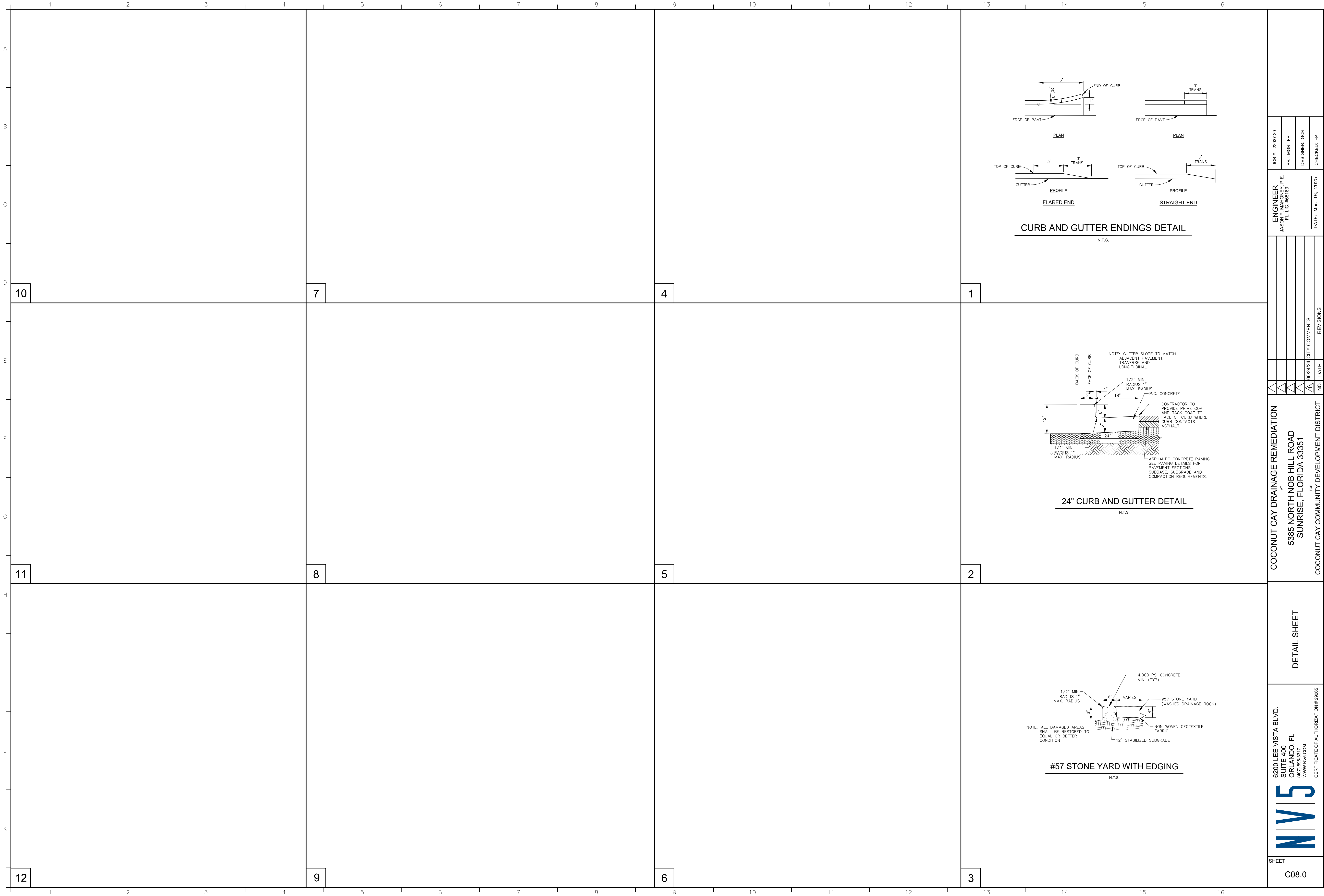
REVISIONS

0:\22037.20\CONST\22037.20_C05.0_SITE_PLAN.dwg - Mar 18, 2025 - 3:09pm



KEY MAP

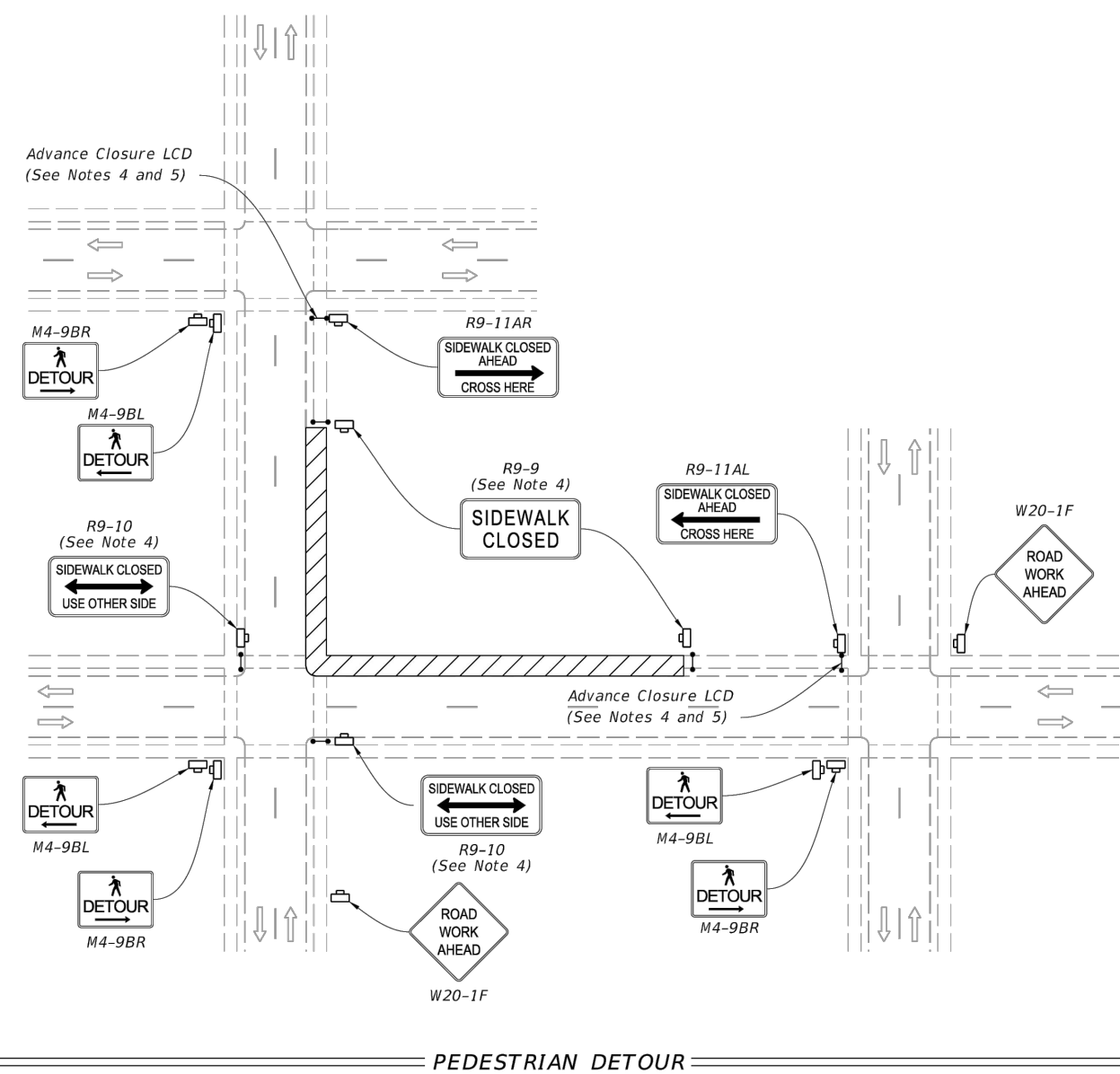
GRADING PLAN
(SEE SCALE ON THIS SHEET)



1. THE INTENT OF THE TTPC IS FOR THE CONTRACTOR TO SET UP ACCESSSES TO THE WORK SITES NO ALERT MOTORISTS IN THE AREAS THAT THEY MAY ENCOUNTER WORK TRUCKS/WORKERS IN THE VICINITIES.
2. UTILIZE INDEX 102-600 AND 102-602 AS NECESSARY.
3. USE MIN WORK ZONE SIGN SPACING, $X = 200$ FT AND $L/3 = 30$ FT.
4. THE WORK AREAS ARE TO BE CENTERED AT THE POINTS OF ACCESS.

1. Cover or deactivate pedestrian traffic signal display(s) controlling closed crosswalks.
2. Place pedestrian LCDs across the full width of the closed sidewalk.
3. For post mounted signs located near or adjacent to a sidewalk, maintain a minimum 7" clearance from the bottom of the sign panel to the surface of the sidewalk.
4. "Sidewalk Closed" signs (R9-XX) may be mounted on pedestrian LCDs in accordance with the manufacturer's instructions.
5. Omit the Advance Closure LCD if it blocks access to other pedestrian facilities (e.g., transit stops, residences, or business entrances).

 Work Area
 Work Zone Sign
 Pedestrian Longitudinal Channelizing Device (LCD)
 Lane Identification and Direction of Traffic



LAST REVISION 11/01/20	DESCRIPTION:	FY 2023-24  STANDARD PLANS	SIDEWALK CLOSURE	INDEX 102-660	SHEET 1 of 2
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SHEET	TABLE OF CONTENTS
1	General Notes, TTC Tables
	Definitions
	Temporary Traffic Control Devices
2	Overhead Work
	Railroads
	Sight Distance
	Above Ground Hazard
	Clear Zone Widths For Work Zones
	Superelevation
	Length of Lane Closures
3	Overweight/Oversize Vehicles
	Lane Widths
	High-Visibility Safety Apparel
	Speed Reduction Signing
	Flagger Control
4	Survey Work Zones
	Signs
5	Work Zone Sign Supports
6	Commonly Used Warning and Regulatory Signs In Work Zones
	Manholes/Crosswalks/Joints
	Truck Mounted Attenuators
7	Signals
	Channelizing Devices
	Channelizing Devices Consistency
	Advanced Warning Arrow Boards
8	Drop-Offs In Work Zones
	Business Entrance
9	Temporary Asphalt Separator
10	Channelizing Devices Notes
	Temporary Barrier Notes
11	Pavement Markings

1. This Index contains information specific to the Federal and State guidelines and standards for the preparation of traffic control plans and for the execution of traffic control in work zones, for construction and maintenance operations on the Interstate and State Highways and on State Highways. Certain requirements in this Index are based on the high volume nature of State Highways. For highways, roads and streets off the State Highway System, the local agency (City/County) having jurisdiction may adopt requirements based on the minimum requirements provided in the MUTCD.
2. Use this Index in accordance with the Plans and Indexes 102-601 through 102-680. Indexes 102-601 through 102-680 are Department-specific typical applications of commonly encountered situations. The location of each device is determined as recommended by the Worksite Traffic Supervisor and approved by the Engineer. Devices include, but are not limited to, flaggers, portable temporary signals, signs, pavement markings, and channelizing devices. Comply with MUTCD or applicable Department criteria for any changes and document the reason for the change.
3. Except for emergencies, any road closure on State Highway System must comply with Section 335.15, F.S.

Work Zone Speed (mph)	Max. Spacing (feet)			
	Cones or Temporary Tubular Markers		Type I Barricades, Type II Barricades, Vertical Panels, or Drums	
	Taper	Tangent	Taper	Tangent
	≤ 45	25 50	25 50	
	≥ 50	25 50	50 100	

Work Zone Speed (mph)	Min. Length (feet)
≤ 40	$L = \frac{WS^2}{60}$
≥ 45	$L = WS$

Where: W = width of offset
in feet
S = speed in mph

Road Type	Min. Spacing (feet)
Arterials and Collectors with Work Zone Speed ≤ 40 mph	200
Arterials and Collectors with Work Zone Speed ≥ 45 mph	500
Limited Access Roadways *	1,500

* For Limited access roadways with work zone speed ≤ 55 mph, the minimum spacing may be reduced in accordance with the MUTCD and as approved by the Engineer.

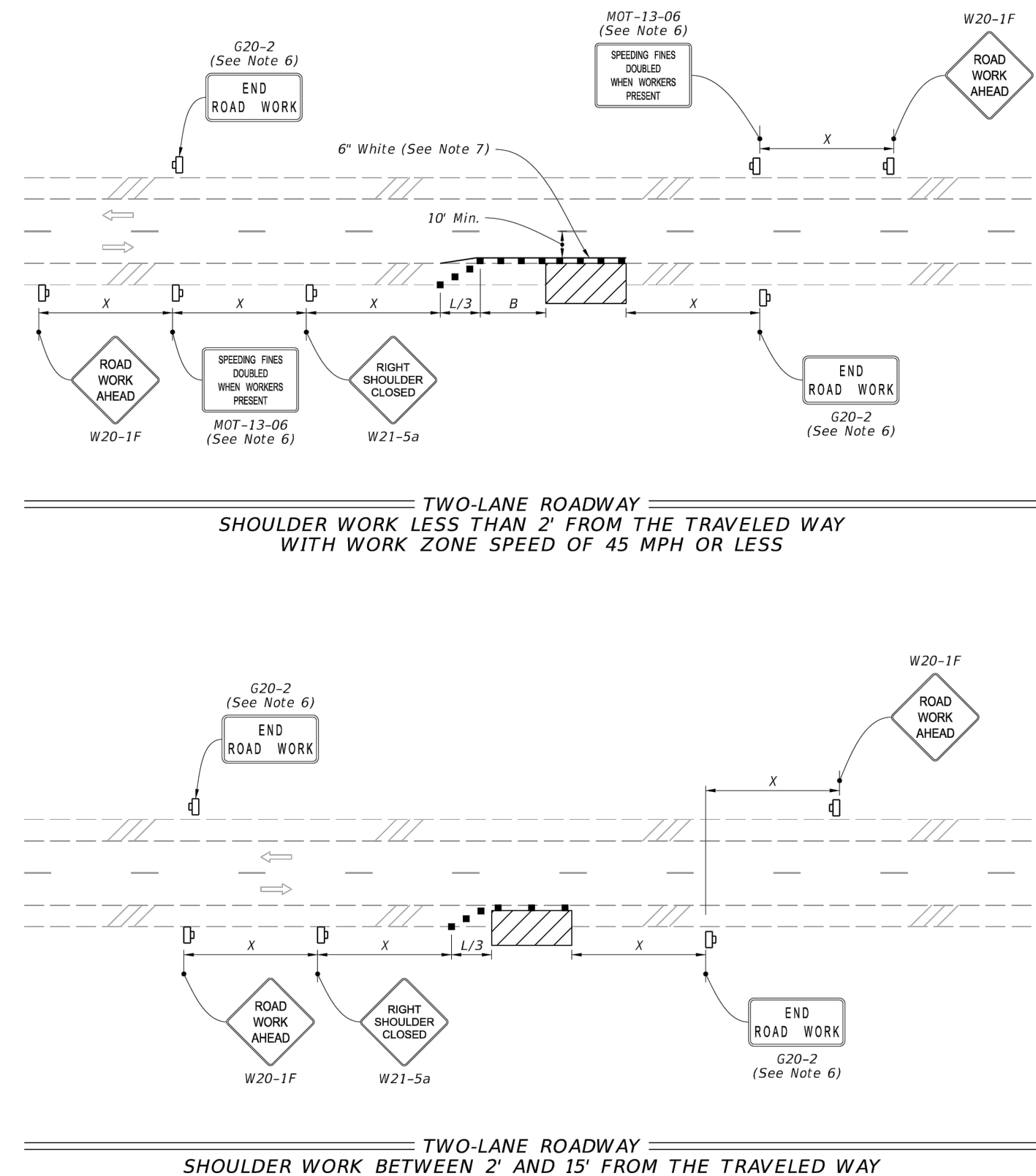
Work Zone Speed (mph)	Min. Length (feet)
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645
70	730

- Work Area
- Channelizing Device
- Work Zone Sign
- Type III Barricade
- Lane Identification and Direction of Traffic

LAST REVISION 11/01/23	DESCRIPTION:  FY 2024-25 STANDARD PLANS	GENERAL INFORMATION FOR TRAFFIC CONTROL THROUGH WORK ZONES	INDEX 102-600	SHEET 1 of 11
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1. This Index applies to Two-Lane, Two-Way and Multilane Roadways, including Medians of divided roadways, with work on the shoulder.

- SYMBOLS:**
-  Work Area
 - Channelizing Device (See Index 102-600)
 -  Work Zone Sign
 -  Lane Identification and Direction of Traffic



LAST REVISION 11/01/21	DESCRIPTION:	 FY 2024-25 STANDARD PLANS	TWO-LANE AND MULTILANE, WORK ON SHOULDER	INDEX 102-602	SHEET 1 of 2
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COCONUT CAY DRAINAGE REMEDIATION
AT
5385 NORTH NOB HILL ROAD
SUNRISE, FLORIDA 33351

MOT DETAIL SHEET

3200 LEE VISTA BLVD.
SUITE 400
ORLANDO, FL
407) 896-3317
WWW.NV5.COM

GSVN

SHEET

C08.1

BARNEY'S PUMPS, INC.

PO BOX 3529, LAKELAND, FL 33802
PHONE: (863) 665-8500 FAX: (863) 666-3858

DUPLEX FIBERGLASS NON-CLOG LIFT STATION

GENERAL NOTES

PUMPS SHALL BE OF THE SUBMERSIBLE TYPE (MANUFACTURED BY HYDROMATIC OR HOMA). EACH PUMP SHALL BE MOUNTED ON A Ø4" RAIL SYSTEM. THE RAIL SYSTEM SHALL BE SELF ENGAGING RESULTING IN A LEAKPROOF COUPLING. THE RAIL SYSTEM SHALL INCLUDE THE BASE ELBOW, DISCHARGE FLANGE ASSEMBLY, 316SS GUIDE RAILS, 316SS UPPER GUIDE BRACKET, 316SS LIFTING BAIL AND CABLE, AND A SIX-HOOK 316SS CABLE HOLDER. THE RAIL SYSTEM SHALL BE MOUNTED AND PRE-PIPED BY THE PUMP SUPPLIER.

PUMP CONSTRUCTION

THE PUMP VOLUTE, MOTOR AND SEAL HOUSING SHALL BE CONSTRUCTED OF CAST IRON. ALL EXTERNAL FASTENERS SHALL BE SERIES 300 STAINLESS STEEL. THE PUMP SHAFT SHALL BE CONSTRUCTED OF SERIES 416 STAINLESS STEEL.

IMPELLER

THE IMPELLER SHALL BE OF NON-CLOG CONSTRUCTION. THE IMPELLER SHALL BE STATICALLY AND HYDRAULICALLY BALANCED.

MOTOR

THE MOTOR SHALL BE MOUNTED IN A SEALED, SUBMERSIBLE TYPE HOUSING. THE MOTOR WILL HAVE TWO HEAVY-DUTY BALL BEARINGS; ONE UPPER (RADIAL) AND ONE LOWER (THRUST), TO SUPPORT THE SHAFT. THE MOTOR SHALL BE EQUIPPED WITH A WINDING THERMOSTAT THAT IS WIRED TO SHUT THE MOTOR OFF IN CASE OF MOTOR OVERHEATING.

SEAL CHAMBER

THE PUMP SUPPLIER SHALL PROVIDE THE WET WELL. THIS GLASS FIBER-REINFORCED POLYESTER BASIN SHALL BE CONSTRUCTED OF A COMMERCIAL GRADE OF GLASS FIBER AND SHALL BE PROVIDED WITH FILLET AND AN ANTI-FLOTATION RING WITH A MINIMUM DIAMETER OF THREE INCHES LARGER THAN THE BASIN DIAMETER. THE RAIL SYSTEM, INTERNAL PIPING AND DISCHARGE CONNECTIONS SHALL BE PRE-INSTALLED BY THE PUMP SUPPLIER.

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HATCH COVER

THE HATCH COVER SHALL BE 2/3 HINGED TO ALLOW FOR MAXIMUM ACCESS TO THE WET WELL. THE HATCH COVER SHALL BE ALUMINUM WITH STAINLESS STEEL HARDWARE, RATED FOR 300 PSF OR GREATER. THE HATCH COVER SHALL INCLUDE A SINGLE OR DUAL DOOR OF DIMENSIONS SPECIFIED BY THE PUMP MANUFACTURER FOR PROPER PUMP CLEARANCE. THE COVER SHALL BE MANUFACTURED BY US FABRICATION, OR EQUAL.

VALVE BOX

THE VALVE BOX IS FIBERGLASS WITH ALUMINUM LOCKABLE COVER.

VALVES

VALVES SHALL BE SEWAGE SWING CHECK WITH CLEAN-OUT PORTS AND BRASS GATE VALVES.

FLOATS

FLOATS SHALL BE ANCHOR SCIENTIFIC ROTO-FLOATS OR EQUAL.

CONTROLS

THE CONTROL PANEL SHALL BE UL508 LISTED. ENCLOSURE SHALL BE PROVIDED IN 4X POLYCARBONATE. THE PANEL SHALL INCLUDE AN ALTERNATING CONTROL SCHEME (DUPLEX AND ABOVE), MAIN CIRCUIT BREAKER, GENERATOR RECEPTACLE, HIGH LEVEL ALARM LIGHT AND HORN, ELAPSED TIME METERS, VOLTAGE OR PHASE MONITOR, SEAL FAILURE AND OVERLOAD SENSORS. THE LIGHTNING ARRESTOR SHALL BE PROVIDED BY BARNEY'S PUMPS AND INSTALLED BY CONTRACTOR.

ELECTRICAL

ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES.

SUPPLIER

PUMP SUPPLIER SHALL PROVIDE SUBMERSIBLE PUMPS, SLIDE RAIL ASSEMBLIES, FIBERGLASS BASIN AND VALVE BOX, CONTROL PANEL, FLOAT SWITCHES, ALUMINUM HATCHES AND ACCESSORIES TO INSURE PROPER OPERATIONS AND WARRANTY. THE COMPLETE PACKAGE PUMPING STATION SHALL HAVE PUMP BASES, RAIL ASSEMBLIES, AND DISCHARGE PIPING ASSEMBLED BY BARNEY'S PUMPS INC. READY FOR FIELD INSTALLATION.

PUMP PACKAGE SHALL BE SUPPLIED BY BARNEY'S PUMPS INC. IN LAKELAND (863-665-8500), CORAL SPRINGS (954-346-0669), OR JACKSONVILLE (904-260-0669), FL.

EMERGENCY NOTICE SIGN

CONTRACTOR IS TO PROVIDE AND POST AN UNOBSTRUCTED SIGN (12"x12" WITH 2" LETTERING) MADE OF DURABLE WEATHER RESISTANT MATERIAL AT A LOCATION VISIBLE TO THE PUBLIC WITH A TELEPHONE NUMBER FOR A POINT OF CONTACT IN CASE OF EMERGENCY AS SHOWN ABOVE.

PUMP DATA TABLE

PUMP MODEL	KRT D 250-400
IMPELLER DIAMETER	14.6 "
PUMP DESIGN CAPACITY	2,710 GPM
PUMP DESIGN TDH	7.49 FT
SECONDARY CAPACITY	- GPM
SECONDARY TDH	- FT
HORSEPOWER	8.03 HP
VOLTAGE	230 V
PHASE	- PH
DISCHARGE SIZE	10 "
NOTES:	

ELEVATIONS

(A)	TOP OF WET WELL	6.00'
(B)	INLET INVERT	-1.86'
(C)	HIGH WATER ALARM	-2.01'
(D)	LAG PUMP ON	-3.01'
(E)	LEAD PUMP ON	-4.01'
(F)	PUMP OFF	-14.01'
(G)	BOTTOM OF WET WELL	-15.00'
(H)	FEMA 100YR FLOOD EL.	7.00'

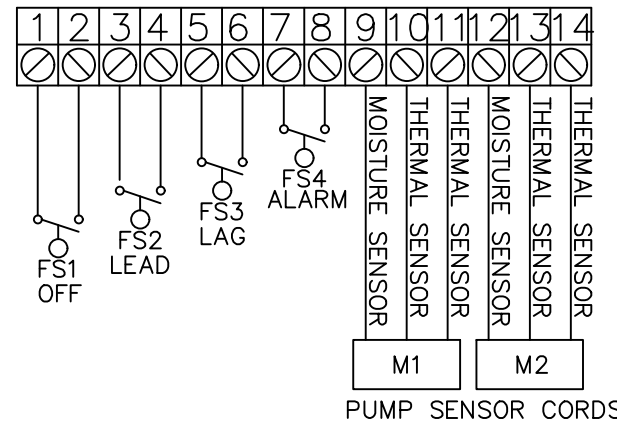
FDEP REQUIREMENTS

PROVIDE 3/4" WATER LINE WITH A 3/4" RPZ.
ALL ELECTRICAL PANELS SHALL BE ABOVE THE 100 YEAR FLOOD ELEVATION.

ELECTRICAL

INCOMING POWER: _____ V _____ Ø
(CONTRACTOR TO VERIFY)

FIELD TERMINALS



LEGEND

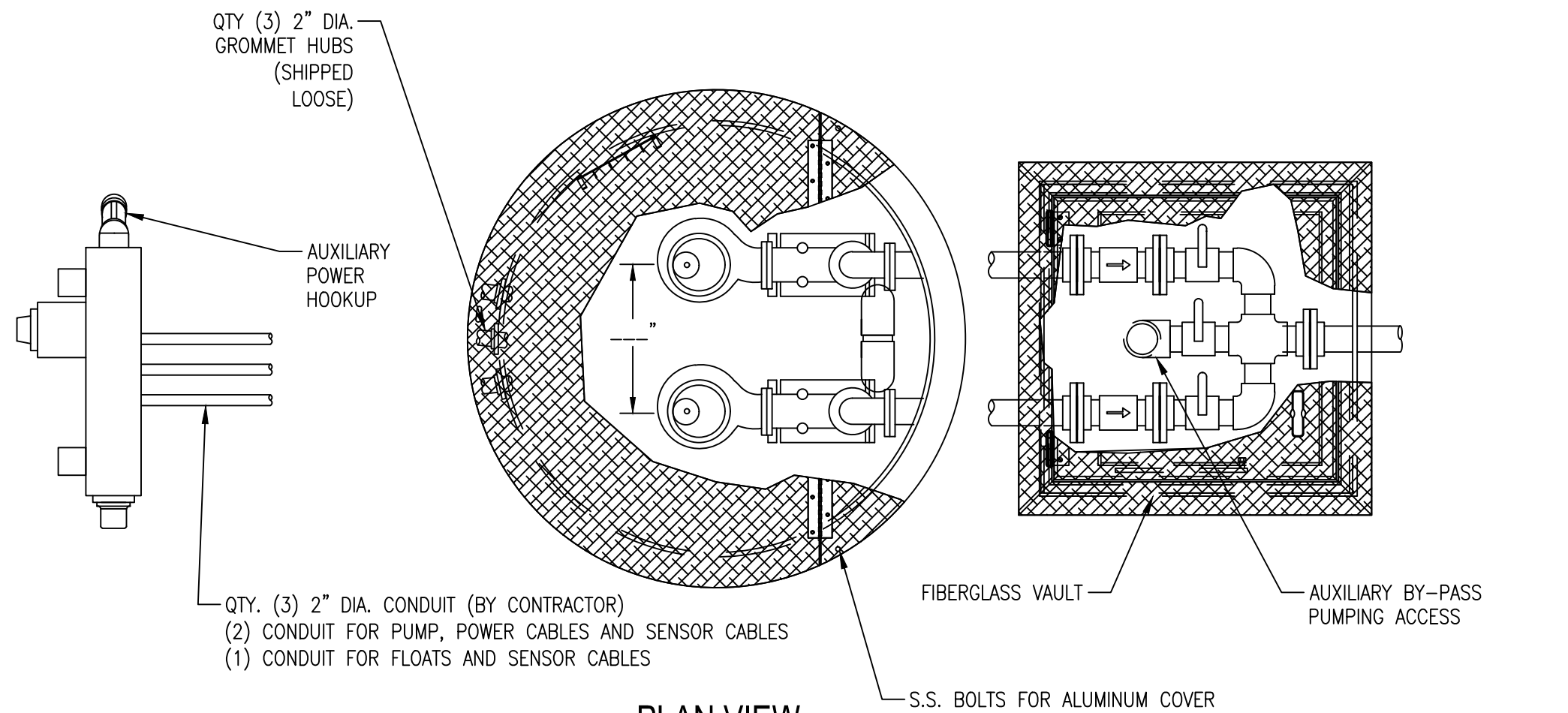
ABBR.	DESCRIPTION
ENC	ENCLOSURE, POLYCARBONATE, NEMA 4X
MCB	MAIN CIRCUIT BREAKER
ECB	EMERGENCY CIRCUIT BREAKER
PCB1,2	PUMP CIRCUIT BREAKER
CCB	CONTROL CIRCUIT BREAKER
GFICB	GFI CIRCUIT BREAKER
GR	GENERATOR RECEPTACLE
GFI	GFI RECEPTACLE
AL	ALARM LIGHT
AH	ALARM HORN
ASB	ALARM SILENCE BUTTON
SFM	SEAL FAIL MODULE
HOA	HAND OFF AUTO SWITCH
RL	RUN LIGHT, GREEN
ETM	ELAPSED TIME METER

PANEL NOTES

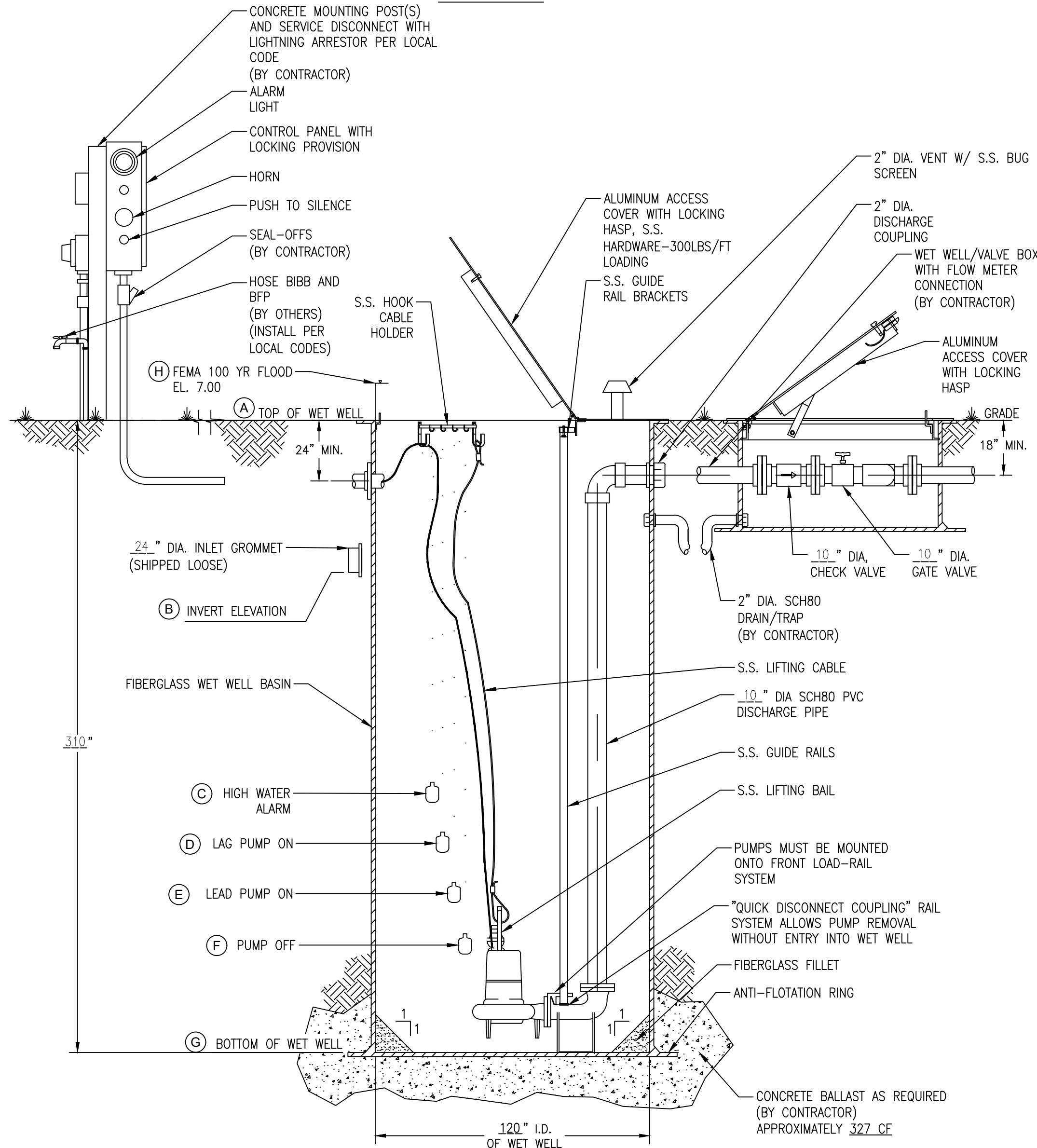
ALL PANELS SHALL BE UL LISTED AND CONFORM TO FLORIDA DEP 62-604

- GENERATOR RECEPTACLE WITH INTERLOCK FOR EMERGENCY POWER CONNECTION.
- SURGE AND LIGHTNING PROTECTION SHALL BE PROVIDED BY CONTRACTOR AND MOUNTED EXTERNAL TO THE CONTROL PANEL.
- PHASE OR VOLTAGE MONITOR SHALL BE PROVIDED IN CONTROL PANEL.
- ALL PANELS, WET WELL, VALVE BOX, AND ACCESS DOORS SHALL HAVE LOCKABLE MECHANISMS. CONTRACTOR TO PROVIDE KEYED LOCKS.
- POST UNOBSTRUCTED SIGN MADE OF DURABLE WEATHER RESISTANT MATERIAL WITH THE FOLLOWING:
PUBLIC NOTICE:
IN CASE OF EMERGENCY CONTACT:
6) THE CONTROL PANEL SHALL BE SUITABLY INSTALLED TO PREVENT SETTLING OR TIPPING.
7) FLOAT SWITCHES SHALL BE UL LISTED.
8) SHAFT SEAL FAIL DETECTION

WET WELL/VALVE BOX LAYOUT



PLAN VIEW



SECTION VIEW

BARNEY’S PUMPS, INC.

PO BOX 3529, LAKELAND, FL 33802

PHONE: (863) 665-8500 FAX: (863) 666-3858

DUPLEX FIBERGLASS NON-CLOG LIFT STATION

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THE PUMP SHALL HAVE TWO MECHANICAL SEALS, MOUNTED IN TANDEM WITH AN OIL CHAMBER BETWEEN THE SEALS. THE PUMP SHALL BE EQUIPPED WITH A SEAL LEAK DETECTION PROBE AND WARNING SYSTEM BY USING A SEAL FAILURE SENSOR INSTALLED IN THE SEAL CHAMBER.

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PUMP DESIGN TDH	7.49 FT
SECONDARY CAPACITY	- GPM
SECONDARY TDH	- FT
HORSEPOWER	8.03 HP
VOLTAGE	230 V
PHASE	- PH
DISCHARGE SIZE	10 "

NOTES:

ELEVATIONS

(A)	TOP OF WET WELL	6.13'
(B)	INLET INVERT	2.50'
(C)	HIGH WATER ALARM	2.00'
(D)	LAG PUMP ON	0.99'
(E)	LEAD PUMP ON	-0.01'
(F)	PUMP OFF	-10.01'
(G)	BOTTOM OF WET WELL	-11.00'
(H)	FEMA 100YR FLOOD EL,	7.00'

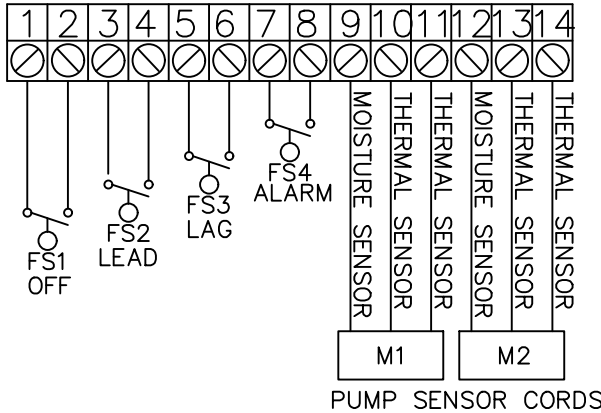
FDEP REQUIREMENTS

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ALL ELECTRICAL PANELS SHALL BE ABOVE THE 100 YEAR FLOOD ELEVATION.

ELECTRICAL

INCOMING POWER: ____V ____Ø
(CONTRACTOR TO VERIFY)

FIELD TERMINALS



LEGEND

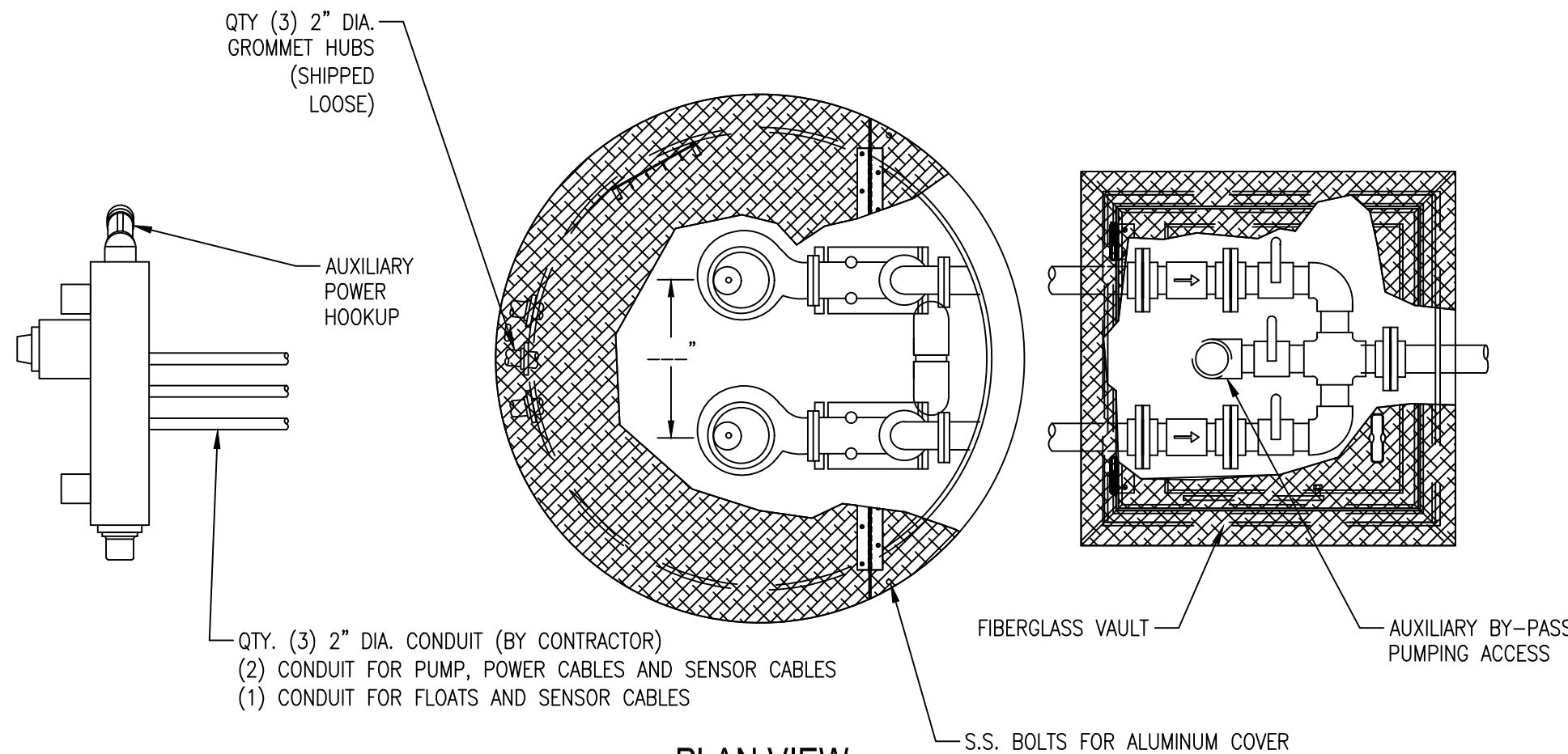
ABBR.	DESCRIPTION
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GFI	GFI RECEPTACLE
AL	ALARM LIGHT
AH	ALARM HORN
ASB	ALARM SILENCE BUTTON
SFM	SEAL FAIL MODULE
HOA	HAND OFF AUTO SWITCH
RL	RUN LIGHT, GREEN
ETM	ELAPSED TIME METER

PANEL NOTES

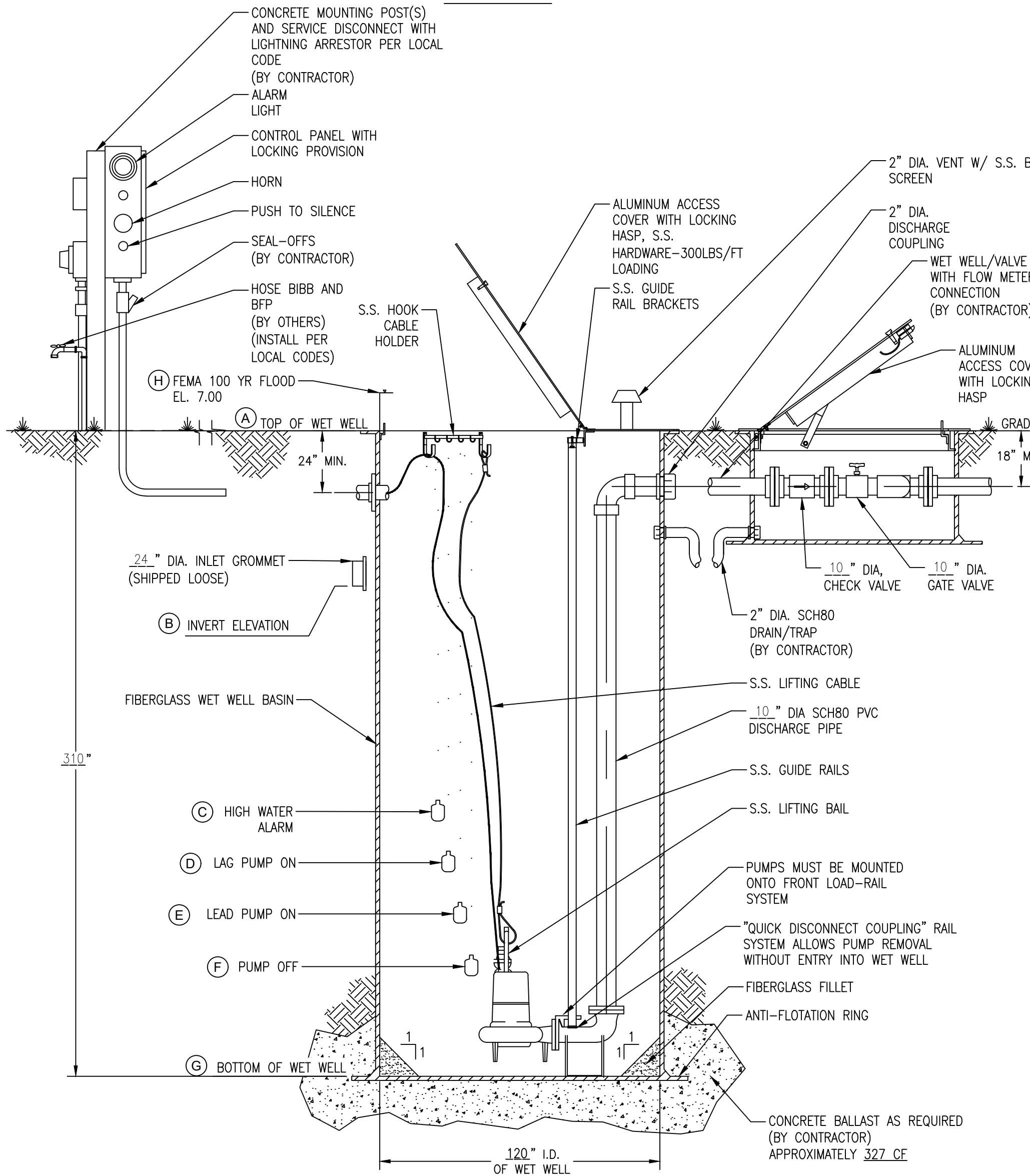
ALL PANELS SHALL BE UL LISTED AND CONFORM TO FLORIDA DEP 62-604

- 1) GENERATOR RECEPTACLE WITH INTERLOCK FOR EMERGENCY POWER CONNECTION.
- 2) SURGE AND LIGHTNING PROTECTION SHALL BE PROVIDED BY CONTRACTOR AND MOUNTED EXTERNAL TO THE CONTROL PANEL.
- 3) PHASE OR VOLTAGE MONITOR SHALL BE PROVIDED IN CONTROL PANEL.
- 4) ALL PANELS, WET WELL, VALVE BOX, AND ACCESS DOORS SHALL HAVE LOCKABLE MECHANISMS. CONTRACTOR TO PROVIDE KEYED LOCKS.
- 5) POST UNOBSTRUCTED SIGN MADE OF DURABLE WEATHER RESISTANT MATERIAL WITH THE FOLLOWING:
PUBLIC NOTICE:
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6) THE CONTROL PANEL SHALL BE SUITABLY INSTALLED TO PREVENT SETTLING OR TIPPING.
- 7) FLOAT SWITCHES SHALL BE UL LISTED.
- 8) SHAFT SEAL FAIL DETECTION

WET WELL/VALVE BOX LAYOUT



PLAN VIEW



SECTION VIEW

JOB #:	22037.20
PRJ. MGR:	FP
DESIGNER:	GCR
CHECKED:	FP

ENGINEER	JASON P. MAHONEY, P.E. FL LIC. #65163
DATE:	Mar. 18, 2025

NO.	DATE	REVISIONS

COCONUT CAY DRAINAGE REMEDIATION AT 5385 NORTH NOB HILL ROAD SUNRISE, FLORIDA 33351	FOR COCONUT CAY COMMUNITY DEVELOPMENT DISTRICT
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LIFTSTATION PLAN A-2

6200 LEE VISTA BLVD. SUITE 400 ORLANDO, FL (407) 886-5317 WWW.NVS.COM	CERTIFICATE OF AUTHORIZATION # 29065 0:\22037.20\CONST\22037.20 C08.0 LIFTSTATION PLAN.dwg — Mar 18, 2025 — 3:10pm
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SHEET	C09.1
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BARNEY'S PUMPS, INC.

PO BOX 3529, LAKELAND, FL 33802
PHONE: (863) 665-8500 FAX: (863) 666-3858

DUPLEX FIBERGLASS NON-CLOG LIFT STATION

GENERAL NOTES

PUMPS SHALL BE OF THE SUBMERSIBLE TYPE (MANUFACTURED BY HYDRAMATIC OR HOMA). EACH PUMP SHALL BE MOUNTED ON A Ø4" RAIL SYSTEM. THE RAIL SYSTEM SHALL BE SELF ENGAGING RESULTING IN A LEAKPROOF COUPLING. THE RAIL SYSTEM SHALL INCLUDE THE BASE ELBOW, DISCHARGE FLANGE ASSEMBLY, 316SS GUIDE RAILS, 316SS UPPER GUIDE BRACKET, 316SS LIFTING BAIL AND CABLE, AND A SIX-HOOK 316SS CABLE HOLDER. THE RAIL SYSTEM SHALL BE MOUNTED AND PRE-PIPED BY THE PUMP SUPPLIER.

PUMP CONSTRUCTION

THE PUMP VOLUTE, MOTOR AND SEAL HOUSING SHALL BE CONSTRUCTED OF CAST IRON. ALL EXTERNAL FASTENERS SHALL BE SERIES 300 STAINLESS STEEL. THE PUMP SHAFT SHALL BE CONSTRUCTED OF SERIES 416 STAINLESS STEEL.

IMPELLER

THE IMPELLER SHALL BE OF NON-CLOG CONSTRUCTION. THE IMPELLER SHALL BE STATICALLY AND HYDRAULICALLY BALANCED.

MOTOR

THE MOTOR SHALL BE MOUNTED IN A SEALED, SUBMERSIBLE TYPE HOUSING. THE MOTOR WILL HAVE TWO HEAVY-DUTY BALL BEARINGS; ONE UPPER (RADIAL) AND ONE LOWER (THRUST), TO SUPPORT THE SHAFT. THE MOTOR SHALL BE EQUIPPED WITH A WINDING THERMOSTAT THAT IS WIRED TO SHUT THE MOTOR OFF IN CASE OF MOTOR OVERHEATING.

SEAL CHAMBER

THE PUMP SHALL HAVE TWO MECHANICAL SEALS, MOUNTED IN TANDEM WITH AN OIL CHAMBER BETWEEN THE SEALS. THE PUMP SHALL BE EQUIPPED WITH A SEAL LEAK DETECTION PROBE AND WARNING SYSTEM BY USING A SEAL FAILURE SENSOR INSTALLED IN THE SEAL CHAMBER.

WET WELL

THE PUMP SUPPLIER SHALL PROVIDE THE WET WELL. THIS GLASS FIBER-REINFORCED POLYESTER BASIN SHALL BE CONSTRUCTED OF A COMMERCIAL GRADE OF GLASS FIBER AND SHALL BE PROVIDED WITH FILLET AND AN ANTI-FLOTATION RING WITH A MINIMUM DIAMETER OF THREE INCHES LARGER THAN THE BASIN DIAMETER. THE RAIL SYSTEM, INTERNAL PIPING AND DISCHARGE CONNECTIONS SHALL BE PRE-INSTALLED BY THE PUMP SUPPLIER.

HATCH COVER

THE HATCH COVER SHALL BE 2/3 HINGED TO ALLOW FOR MAXIMUM ACCESS TO THE WET WELL. THE HATCH COVER SHALL BE ALUMINUM WITH STAINLESS STEEL HARDWARE, RATED FOR 300 PSF OR GREATER. THE HATCH COVER SHALL INCLUDE A SINGLE OR DUAL DOOR OF DIMENSIONS SPECIFIED BY THE PUMP MANUFACTURER FOR PROPER PUMP CLEARANCE. THE COVER SHALL BE MANUFACTURED BY US FABRICATION, OR EQUAL.

VALVE BOX

THE VALVE BOX IS FIBERGLASS WITH ALUMINUM LOCKABLE COVER.

VALVES

VALVES SHALL BE SEWAGE SWING CHECK WITH CLEAN-OUT PORTS AND BRASS GATE VALVES.

FLOATS

FLOATS SHALL BE ANCHOR SCIENTIFIC ROTO-FLOATS OR EQUAL.

CONTROLS

THE CONTROL PANEL SHALL BE UL508 LISTED. ENCLOSURE SHALL BE PROVIDED IN 4X POLYCARBONATE. THE PANEL SHALL INCLUDE AN ALTERNATING CONTROL SCHEME (DUPLEX AND ABOVE), MAIN CIRCUIT BREAKER, GENERATOR RECEPTACLE, HIGH LEVEL ALARM LIGHT AND HORN, ELAPSED TIME METERS, VOLTAGE OR PHASE MONITOR, SEAL FAILURE AND OVERLOAD SENSORS. THE LIGHTNING ARRESTOR SHALL BE PROVIDED BY BARNEY'S PUMPS AND INSTALLED BY CONTRACTOR.

ELECTRICAL

ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES.

SUPPLIER

PUMP SUPPLIER SHALL PROVIDE SUBMERSIBLE PUMPS, SLIDE RAIL ASSEMBLIES, FIBERGLASS BASIN AND VALVE BOX, CONTROL PANEL, FLOAT SWITCHES, ALUMINUM HATCHES AND ACCESSORIES TO INSURE PROPER OPERATIONS AND WARRANTY. THE COMPLETE PACKAGE PUMPING STATION SHALL HAVE PUMP BASES, RAIL ASSEMBLIES, AND DISCHARGE PIPING ASSEMBLED BY BARNEY'S PUMPS INC. READY FOR FIELD INSTALLATION.

PUMP PACKAGE SHALL BE SUPPLIED BY BARNEY'S PUMPS INC. IN LAKELAND (863-665-8500), CORAL SPRINGS (954-346-0669), OR JACKSONVILLE (904-260-0669), FL.

EMERGENCY NOTICE SIGN

CONTRACTOR IS TO PROVIDE AND POST AN UNOBSTRUCTED SIGN (12"x12" WITH 2" LETTERING) MADE OF DURABLE WEATHER RESISTANT MATERIAL AT A LOCATION VISIBLE TO THE PUBLIC WITH A TELEPHONE NUMBER FOR A POINT OF CONTACT IN CASE OF EMERGENCY AS SHOWN ABOVE

PUMP DATA TABLE	
PUMP MODEL	KRT D 250-400
IMPELLER DIAMETER	14.6 "
PUMP DESIGN CAPACITY	2,710 GPM
PUMP DESIGN TDH	7.49 FT
SECONDARY CAPACITY	- GPM
SECONDARY TDH	- FT
HORSEPOWER	8.03 HP
VOLTAGE	230 V
PHASE	- PH
DISCHARGE SIZE	10 "
NOTES:	

ELEVATIONS		
(A)	TOP OF WET WELL	6.55'
(B)	INLET INVERT	2.50'
(C)	HIGH WATER ALARM	2.00'
(D)	LAG PUMP ON	0.99'
(E)	LEAD PUMP ON	-0.01'
(F)	PUMP OFF	-10.01'
(G)	BOTTOM OF WET WELL	-11.00'
(H)	FEMA 100YR FLOOD EL.	7.00'

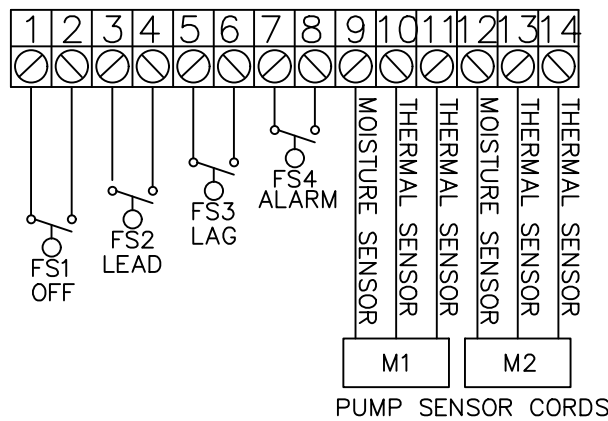
FDEP REQUIREMENTS

PROVIDE 3/4" WATER LINE WITH A 3/4" RPZ.
ALL ELECTRICAL PANELS SHALL BE ABOVE THE 100 YEAR FLOOD ELEVATION.

ELECTRICAL

INCOMING POWER: ____ V ____ Ø
(CONTRACTOR TO VERIFY)

FIELD TERMINALS



LEGEND

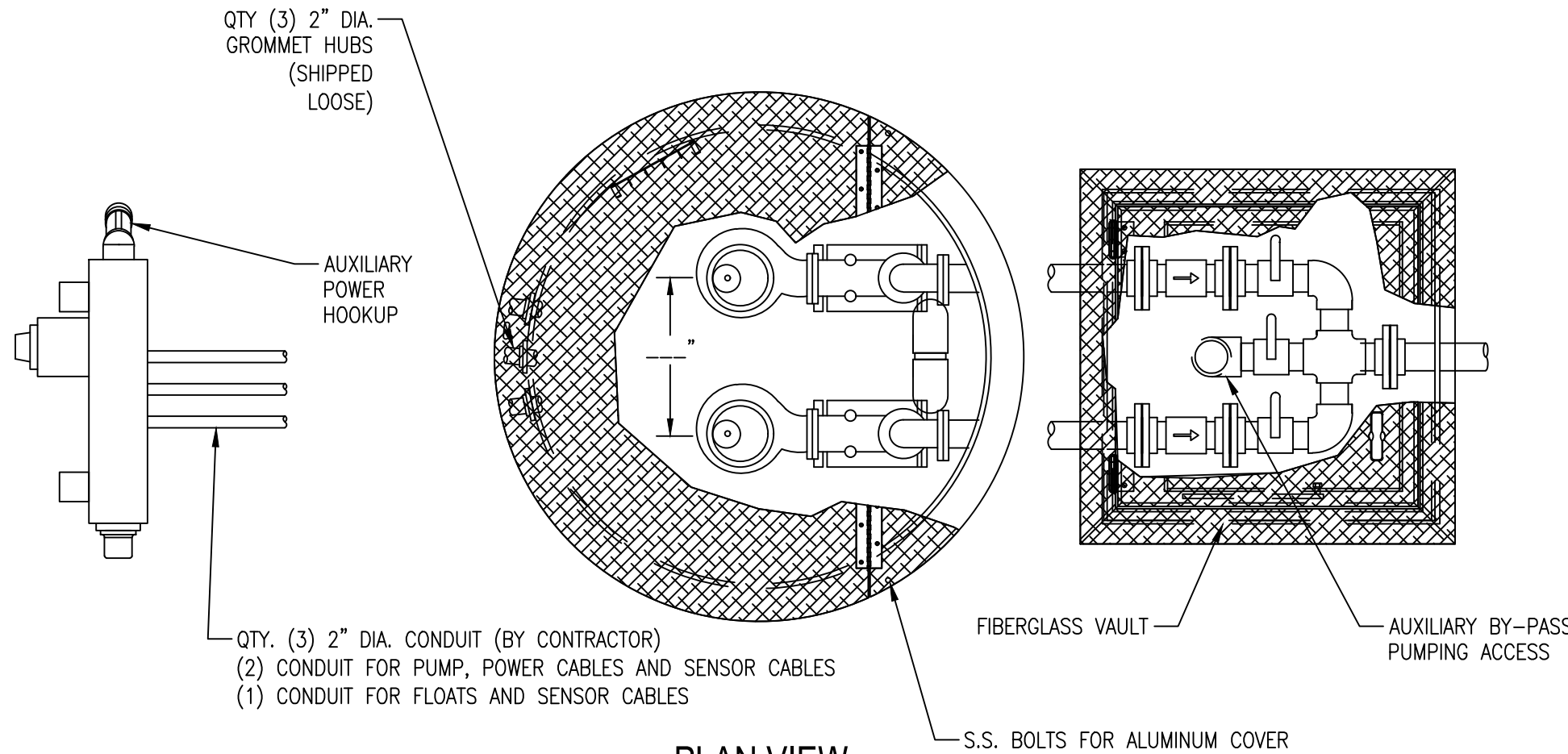
ABBR.	DESCRIPTION
ENC	ENCLOSURE, POLYCARBONATE, NEMA 4X
MCB	MAIN CIRCUIT BREAKER
ECB	EMERGENCY CIRCUIT BREAKER
PCB1,2	PUMP CIRCUIT BREAKER
CCB	CONTROL CIRCUIT BREAKER
GFICB	GFI CIRCUIT BREAKER
GR	GENERATOR RECEPTACLE
GFI	GFI RECEPTACLE
AL	ALARM LIGHT
AH	ALARM HORN
ASB	ALARM SILENCE BUTTON
SFM	SEAL FAIL MODULE
HOA	HAND OFF AUTO SWITCH
RL	RUN LIGHT, GREEN
ETM	ELAPSED TIME METER

PANEL NOTES

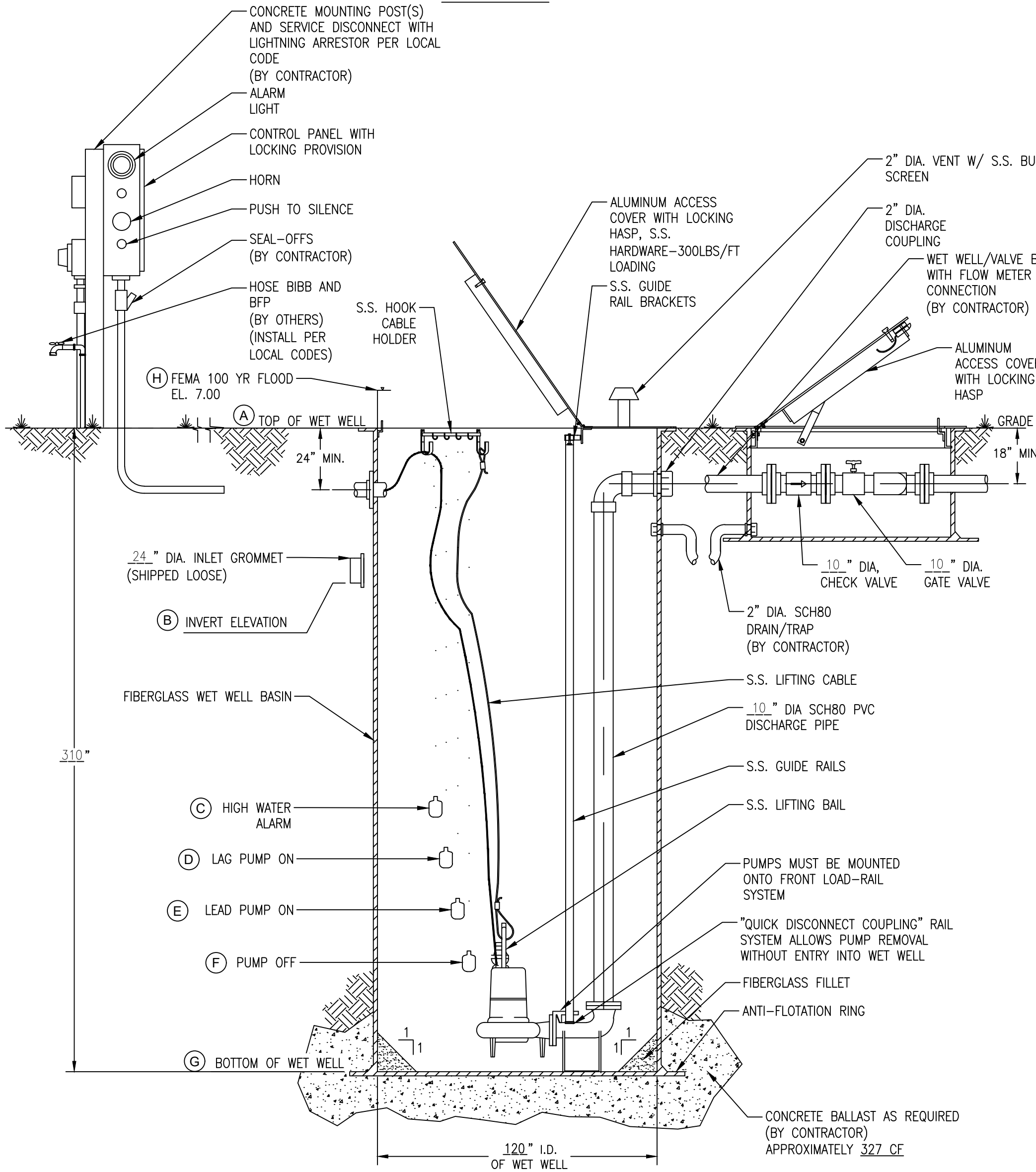
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PLAN VIEW



SECTION VIEW

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NVS

SHEET

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COCONUT CAY DRAINAGE REMEDIATION

AT

5385 NORTH NOB HILL ROAD
SUNRISE, FLORIDA 33351

FOR

COCONUT CAY COMMUNITY DEVELOPMENT DISTRICT

LIFTSTATION PLAN
A-3

0:\22037.20\CONST\22037.20 C08.0 LIFTSTATION PLAN.dwg - Mar 18, 2025 - 3:10pm

JOB #: 22037.20

PRJ. MGR: FP

DESIGNER: GCR

CHECKED: FP

ENGINEER
JASON P. MAHONEY, P.E.
FL LIC #85163

DATE: Mar 18, 2025

REVISIONS

NO.

DATE