

# CITY OF CORAL GABLES SEWER EXTENSION FOR

# ALEXAN CRAFTS SEWER EXTENSION AND PUMP STATION #6

INTERSECTION OF MALAGA AVENUE AND SALZEDO STREET, ALONG SALZEDO STREET TO CAMILO AVENUE UNTIL PONCE DE LEON BLVD

MAY 2023

# PROJECT TEAM:

OWNER/DEVELOPER
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LAND SURVEYORS AND MAPPERS
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CIVIL ENGINEER

KEVIN E. GERSZUNY, P.E.

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2 ALHAMBRA PLAZA, SUITE 500

CORAL GABLES, FLORIDA 33144

(205) 673 2025

# LIST OF CONTACTS:

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CITY OF CORAL GABLES
SEWER & STORMWATER UTILITIES
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CONTACT: LAZARO GUERRA

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MIAMI, FLORIDA 33146
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FIRE PREVENTION
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**ENGINEERING** 

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CONTACT: GUSTAVO PENA

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MIAMI-DADE COUNTY
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TELECOMMUNICATION PROVIDER

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BUILDING DIVISION
CITY OF CORAL GABLES
405 BILTMORE WAY 3RD
CORAL GABLES, FL 33134
305-460-5245

**CONTACT: RAMON TRIAS** 

# CATALONIA AV CATALONIA AV MALAGA AV SANTANDER AV SAN SEBASTIAN AV CAMILO AV ALEDO AV CADIMA AV CADIMA AV CADIMA AV

VICINITY MAP

GRAPHIC SCALE IN FEET

150 300 600

# CIVIL ENGINEER: Kimley >>> Horn © 2022 KIMLEY-HORN AND ASSOCIATES, INC.

2 ALHAMBRA CIRCLE, SUITE 500, CORAL GABLES, FL 33134
PHONE: 305-673-2025
WWW.KIMLEY-HORN.COM REGISTRY 35106

## PROJECT LOCATION

SHE	ET LIST TABLE
SHEET NUMBER	SHEET TITLE
CS	COVER SHEET
SS-01	GENERAL NOTES
SS-02	GENERAL SEWER NOTES
SS-03	SANITARY SEWER DETAILS
SS-04	EROSION CONTROL NOTES
SS-05	EROSION CONTROL DETAILS
SS-06	KEYMAP
C-01	SANITARY SEWER PLANSHEET
C-02	SANITARY SEWER PLANSHEET
C-03	SANITARY SEWER PLANSHEET
C-04	SANITARY SEWER PLANSHEET
C-05	SANITARY SEWER PLANSHEET
C-06	PUMP STATION SITE PLAN
M-01	DEMOLITION PLAN AND SECTION VIEW
M-02	PUMP STATION DEMOLITION DETAILS
M-03	PROPOSED LIFT STATION PLAN
M-04	PROPOSED SECTION VIEWS
M-05	PUMP DETAIL SHEET
E-1	ELECTRICAL GENERAL NOTES
E-2	ELECTRICAL SITE PLAN AND NOTES
E-3	POWER AND WIRING SCHEDULE
E-4	CONTROL PANEL ELEVATION AND MISC. EQUIPMENT
E-5	CONTROL WIRING DIAGRAM
E-6	S.C.A.D.A. MULTISMART WIRING DIAGRAM
L-100	TREE DISPOSITION PLAN
L-150	TREE DISPOSITION NOTES AND DETAILS

PERMIT SET

1 PERMIT SET KEG 5/19/2023

No. Revisions By Date

E 2023 KIMLEY-HORN AND ASSOCIATES, INC.

2 ALHAMBRA PLAZA SUITE 500, MIAMI, FL 33143

No 93169

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STATE OF

STAT

DATE
5/16/2023
SCALE: AS SHOWN
DESIGNED BY: KEG

CITY OF CORAL GABLES PUMP STATION CITY NO. IMPROVEMENTS

COVER SHEET

### **GENERAL NOTES AND SPECIFICATIONS**

(NOT A PART OF M-DWASD NOTES NOR APPROVAL)

OF UTILITY OWNERS, AS REQUIRED.

### I. APPLICABLE CODES

- 1. ALL WORK AND MATERIALS SHALL CONFORM TO CURRENT CITY OF CORAL GABLES, MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT (MDCPWD), MIAMI-DADE COUNTY DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES WATER CONTROL SECTION (DRER), MIAMI-DADE WATER AND SEWER DEPARTMENT (M-DWASD), AND THE FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS INDEX (FDOT) AND FDOT STANDARD SPECIFICATIONS, STANDARDS AND SPECIFICATIONS AS WELL AS ALL LOCAL, STATE, AND NATIONAL CODES AND REGULATORY REQUIREMENTS, AS APPLICABLE.
- 2. THE CONTRACTOR SHALL CONTACT THE ENGINEERING DIVISION OF THE CITY OF CORAL GABLES PUBLIC WORKS DEPARTMENT TO AQUIRE A SET OF THE CITY'S "STANDARD DETAILS" AND "TECHNICAL SPECIFICATIONS", AND BECOME FAMILIAR WITH THE DETAILS AND SPECIFICATIONS. IF ANY INFORMATION PROVIDED ON SHEETS SS-001 AND SS-002 PERTAINING TO THIS PROJECT CONTRADICTS THE CONTENT OF THTE CITY'S STANDARDS, THE CITY STANDARDS SHALL PREVAIL.
- 3. LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER SITE FEATURES SHOWN ON THE DRAWINGS WERE OBTAINED FROM THE BOUNDARY SURVEY BY:

  J. HERNANDEZ AND ASSOCIATES, INC. 10/12/2022.
- 4. ELEVATIONS SHOWN HEREON RELATE TO THE NATIONAL GEODETIC VERTICAL DATUM, 1929 (NGVD)
- 5. EXISTING UTILITIES TO BE ADJUSTED IN ACCORDANCE WITH PROPOSED GRADES AND REQUIREMENTS
- 6. EXISTING STRUCTURES, TREES, UTILITIES AND OTHER IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE SUCH AS BUILDING SEWERS, DRAINS, WATER OR GAS PIPES, CONDUITS, POLES, WALLS, COLUMNS, ETC., WHETHER OR NOT SHOWN ON THE PLANS, ARE TO BE CAREFULLY PROTECTED FROM DAMAGE. IF DAMAGE OCCURS FROM WORK PERFORMED UNDER THIS CONTRACT, THE CONTRACTOR SHALL PROMPTLY REPAIR THE DAMAGED ITEM(S) TO THE CONDITION OF THE ITEM(S) PRIOR TO THE DAMAGE. THIS WORK SHALL BE AT NO ADDITIONAL COST TO THE OWNER.
- 7. THE CONTRACTOR IS TO USE CAUTION WHEN WORKING IN OR AROUND AREAS OF OVERHEAD TRANSMISSION LINES AND UNDERGROUND UTILITIES.
- 8. CONTRACTOR SHALL PRESERVE ALL STREET SIGNS, PARKING METERS, BENCHES, TRAFFIC CONTROL SIGNS, ETC. WHEN DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL REINSTALL OR DELIVER SAID PUBLIC PROPERTY TO THE COUNTY YARD.
- 9. THE CONTRACTOR SHALL COORDINATE HIS/HER WORK WITH ANY OTHER UTILITY AND BUILDING TRADES WORKING ON THIS OR ADJACENT PROJECT.
- 10. ALL DITCH EXCAVATION SHALL BE PERFORMED IN FULL COMPLIANCE WITH THE PROVISIONS OF THE FLORIDA TRENCH SAFETY ACT.
- 11. THE CONTRACTOR SHALL TAKE SPECIAL NOTE OF SOIL CONDITIONS THROUGHOUT THIS PROJECT. ANY SPECIAL SHORING, SHEETING OR OTHER PROCEDURES NECESSARY TO PROTECT ADJACENT PROPERTY, EITHER PUBLIC OR PRIVATE, DURING EXCAVATION OF SUBSOIL MATERIAL OR DURING THE FILLING OF ANY AREA, OR FOR ANY OPERATION DURING CONSTRUCTION SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 12. THE CONTRACTOR AND SUBCONTRACTORS SHALL OBTAIN A COPY OF THE FDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (LATEST EDITION), M-DCPWD STANDARDS AND SPECIFICATIONS, MDWASD STANDARD DETAILS AND SPECIFICATIONS, CITY OF CORAL GABLES STANDARD DETAILS AND SPECIFICATIONS, AND ALL OTHER APPLICABLE STANDARD AND/OR SPECIFICATIONS PERTAINING TO THE PROPOSED WORK AND BECOME FAMILIAR WITH THE CONTENTS PRIOR TO COMMENCING WORK. UNLESS OTHERWISE NOTED, ALL WORK SHALL CONFORM AS APPLICABLE TO THESE STANDARDS AND SPECIFICATIONS.
- 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL MATERIAL AND LABOR TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE APPROVING AUTHORITIES, SPECIFICATIONS AND REQUIREMENTS. CONTRACTOR SHALL CLEAR AND GRUB ALL AREAS UNLESS OTHERWISE INDICATED, REMOVING TREES, STUMPS, ROOTS, MUCK, EXISTING PAVEMENT AND ALL OTHER DELETERIOUS MATERIAL.
- 14. EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF THE TOPOGRAPHIC SURVEY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ENTIRELY ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE DONE BEFORE COMMENCING ANY WORK IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.
- 15. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PROVIDE 48 HOURS MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION. AN APPROXIMATE LIST OF THE UTILITY COMPANIES WHICH THE CONTRACTOR MUST CALL BEFORE COMMENCING WORK IS PROVIDED ON THE COVER SHEET OF THESE CONSTRUCTION PLANS. THIS LIST SERVES AS A GUIDE ONLY AND IS NOT INTENDED TO LIMIT THE UTILITY COMPANIES WHICH THE CONTRACTOR MAY WISH TO NOTIFY.
- 16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED CONSTRUCTION PERMITS AND BONDS IF REQUIRED PRIOR TO CONSTRUCTION.
- 17. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF THE CONSTRUCTION DOCUMENTS INCLUDING PLANS, SPECIFICATIONS, GEOTECHNICAL REPORT AND SPECIAL CONDITIONS AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS.
- 18. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE
- 19. ALL COPIES OF COMPACTION, CONCRETE AND OTHER REQUIRED TEST RESULTS ARE TO BE SENT TO THE OWNER AND DESIGN ENGINEER OF RECORD DIRECTLY FROM THE TESTING AGENCY.
- 20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING TO THE ENGINEER A CERTIFIED RECORD SURVEY SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA DEPICTING THE ACTUAL FIELD LOCATION OF ALL CONSTRUCTED IMPROVEMENTS THAT ARE REQUIRED BY THE JURISDICTIONAL AGENCIES FOR THE CERTIFICATION PROCESS. ALL SURVEY COSTS WILL BE THE CONTRACTORS RESPONSIBILITY.
- 21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING AND MAINTAINING AS—BUILT INFORMATION WHICH SHALL BE RECORDED AS CONSTRUCTION PROGRESSES OR AT THE COMPLETION OF APPROPRIATE CONSTRUCTION INTERVALS AND SHALL BE RESPONSIBLE FOR PROVIDING AS—BUILT DRAWINGS TO THE OWNER FOR THE PURPOSE OF CERTIFICATION TO JURISDICTIONAL AGENCIES AS REQUIRED. ALL AS—BUILT DATA SHALL BE COLLECTED BY A STATE OF FLORIDA PROFESSIONAL LAND SURVEYOR WHOSE SERVICES ARE ENGAGED BY THE CONTRACTOR.
- 22. ANY WELL DISCOVERED DURING EARTH MOVING OR EXCAVATION SHALL BE REPORTED TO THE APPROPRIATE JURISDICTIONAL AGENCIES WITHIN 24 HOURS AFTER DISCOVERY IS MADE.
- 23. ANY WELL TO REMAIN SHALL BE ADJUSTED TO GRADE BY THE CONTRACTOR.
- 24. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK THAT WOULD BE AFFECTED. FAILURE TO NOTIFY OWNER OF AN IDENTIFIABLE CONFLICT PRIOR TO PROCEEDING WITH INSTALLATION RELIEVES OWNER OF ANY OBLIGATION TO PAY FOR A RELATED CHANGE ORDER.
- 25. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE MAINTENANCE OF TRAFFIC CIRCULATION FOR THE ADJACENT PROPERTIES DURING CONSTRUCTION.
- 26. IF IT SHOULD BECOME NECESSARY TO STOP WORK FOR INDEFINITE PERIODS, THE CONTRACTOR SHALL TAKE EVERY PRECAUTION TO PREVENT DAMAGE OR DETERIORATION OF THE WORK ALREADY

### II. PRECONSTRUCTION RESPONSIBILITIES

- 1. THE INFORMATION PROVIDED IN THESE PLANS IS TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF THE WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT ANY INVESTIGATIONS THEY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED AND UPON WHICH THEIR BIDS WILL BE BASED.
- 2. TWO (2) BUSINESS DAYS BEFORE BEGINNING CONSTRUCTION IN THE AREA, THE CONTRACTOR SHALL NOTIFY SUNSHINE STATE CALL ONE OF FLORIDA, INC. AT 811 AND ANY OTHER UTILITY COMPANIES WHICH MIGHT BE AFFECTED.
- 3. UPON THE RECEIPT OF THE "NOTICE TO PROCEED", THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD AND ARRANGE A PRECONSTRUCTION CONFERENCE TO INCLUDE ALL INVOLVED GOVERNMENTAL AGENCIES, UTILITY OWNERS, THE OWNER, AND THE ENGINEER OF RECORD
- 4. THE CONTRACTOR SHALL APPLY FOR AND PROCURE ALL PERMITS AND LICENSES, PAY ALL CHARGES, TAXES, ROYALTIES & FEES, AND GIVE ALL NOTICES NECESSARY TO COMPLETE THIS
- 5. THE CONTRACTORS SHALL COORDINATE WITH UTILITY COMPANIES TO ARRANGE FOR ANY REMOVAL, RELOCATION AND TEMPORARY SUPPORT OF UTILITY FEATURES, ETC. AS NECESSARY TO COMPLETE THE WORK, IF APPLICABLE.
- 6. THE LOCATIONS OF THE UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL LOCATE AND EXPOSE ALL EXISTING UTILITIES TO BE CONNECTED SUFFICIENTLY AHEAD OF CONSTRUCTION TO ALLOW REDESIGN BY THE ENGINEER IF SUCH UTILITIES ARE FOUND TO BE DIFFERENT THAN THOSE SHOWN ON PLANS.

### III. OBSERVATIONS AND TESTING

- 1. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD AT LEAST 2 BUSINESS DAYS IN ADVANCE OF PERFORMING ALL CIVIL RELATED TESTS. UNLESS AUTHORIZED BY THE ENGINEER OF RECORD, THE CONTRACTOR SHALL NOT PROCEED WITH TESTING UNLESS THE ENGINEER OR A DESIGNATED REPRESENTATIVE IS PRESENT TO WITNESS THE TESTS.
- 2. THE ENGINEER OF RECORD WILL REQUIRE THAT THE FOLLOWING TESTS BE PERFORMED WITH
- A. SANITARY SEWAGE COLLECTION SYSTEM:

  I. LAMPING TEST FROM MANHOLE TO MANHOLE, INCLUDING CONNECTING MANHOLE

  II. INFILTRATION/EXFILTRATION TEST UP TO THE CONNECTING MANHOLE
- III. PRESSURE TEST AS REQUIRED BY DRER

  B. SUBGRADE SUBMIT AND HAVE APPROVED DENSITIES PRIOR TO PLACEMENT OF ROCK.

  C. LIME ROCK BASE SUBMIT AND HAVE APPROVED DENSITIES AND AS—BUILTS PRIOR TO THE
- PLACEMENT OF ANY ASPHALT. (FLAT BOARDING ALSO REQUIRED.)
  D. ASPHALT PAVEMENT
- E. FINAL WALK—THROUGH INSPECTION IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL APPLICABLE REGULATORY AGENCIES FOR INSPECTION REQUIREMENTS.
- 3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD AT LEAST 2 BUSINESS DAYS IN ADVANCE OF THE FOLLOWING EVENTS:
- A. PRIOR TO BACKFILLING SANITARY SEWER MAINS AND SERVICES
- B. AFTER COMPACTION OF LIMEROCK BASE AND PRIOR TO PLACEMENT OF FIRST LIFT OF ASPHALT
- C. AFTER 2ND LIFT ASPHALT
- D. PUMP STATION CONCRETE BALLAST POUR E. PUMP START UP
- F. AT SUBSTANTIAL COMPLETION
- G. FINAL INSPECTION

  UNLESS AUTHORIZED BY THE ENGINEER OF RECORD, THE CONTRACTOR SHALL NOT PROCEED WITH

4. SHOULD THE CONTRACTOR FAIL TO GIVE THE ENGINEER OF RECORD ADVANCE NOTICE OF TESTING AND INSPECTIONS AS SPECIFIED ABOVE, THE ENGINEER SHALL RESERVE THE RIGHT TO REFUSE ISSUANCE OF ANY CERTIFICATIONS OF COMPLETION AND FINAL INSPECTIONS, AND RESERVES THE RIGHT TO RECOMMEND THAT ANY CONTRACT AMOUNTS STILL HELD IN RETAINAGE NOT BE RELEASED. CITY INSPECTOR REPORTS SHALL NOT BE ACCEPTED AS A SUBSTITUTE FOR THE ENGINEER'S PRESENCE AT THE TESTING AND INSPECTION INTERVALS SPECIFIED ABOVE.

THESE ACTIVITIES, UNLESS THE ENGINEER OR A DESIGNATED REPRESENTATIVE IS PRESENT TO PERFORM

### IV. SHOP DRAWINGS

1. PRIOR TO CONSTRUCTION OR INSTALLATION, SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE ENGINEER OF RECORD FOR THE FOLLOWING ITEMS:

- A. SANITARY STRUCTURES, INCLUDING MANHOLES FRAMES/GRATES, BAFFLES, ETC.
- B. ALL SANITARY SEWER SYSTEM COMPONENTS
  C. ASPHALT PAVEMENT MIX DESIGN
- D. LIMEROCK MATERIAL
- E. CONCRETE MIX FOR PAVEMENT F. MATERIAL SUBSTITUTION REQUESTS

2. ALL PRECAST STRUCTURAL DRAWINGS MUST BE SIGNED AND SEALED BY A STATE OF FLORIDA LICENSED ENGINEER OF RECORD STATING THAT THE STRUCTURE(S) MEETS THE H20 LOAD RATING REQUIREMENTS. STRUCTURAL SHOP DRAWINGS WILL BE REJECTED AND NOT REVIEWED IF NOT SEALED BY A FLORIDA LICENSED ENGINEER.

IN ADDITION, SOME CITIES, COUNTIES, STATE AND/OR NATIONAL REGULATORY AGENCIES REQUIRE THEIR OWN INDIVIDUAL REVIEW AND APPROVAL. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL OTHER AGENCY SHOP DRAWING APPROVALS AS REQUIRED.

### V. TEMPORARY FACILITIES

- 1. TEMPORARY FACILITIES
- A. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR OR SUPPLY TEMPORARY WATER SERVICE, SANITARY FACILITIES, AND ELECTRICITY, DURING CONSTRUCTION.
- B. THE CONTRACTOR SHALL MAINTAIN AT LEAST ONE ACCESS ENTRANCE TO COMMERCIAL PROPERTIES AT ALL TIMES, IF APPLICABLE.
- C. THE CONTRACTOR SHALL MAINTAIN A CLEAR PATH FOR ALL SURFACE WATER DRAINAGE STRUCTURES AND DITCHES DURING ALL PHASES OF CONSTRUCTION, IF APPLICABLE.
- 2. TRAFFIC REGULATION
- A. THE CONTRACTOR SHALL PROVIDE ALL WARNING SIGNALS, SIGNS, LIGHTS AND FLAG PERSONS
  AS NECESSARY FOR THE MAINTENANCE OF TRAFFIC WITHIN PUBLIC RIGHT—OF—WAYS IN
  ACCORDANCE WITH THE U.S. DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM TRAFFIC
  CONTROL DEVICES (M.U.T.C.D.), FDOT AND M—DCPWD.
- 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, IN ROADWAYS OR THEIR SHOULDERS ARE TO BE LEFT OPEN DURING NIGHTTIME HOURS WITHOUT THE EXPRESS PERMISSION OF THE CITY OF CORAL GABLES, THE MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT, AND/OR THE FLORIDA DEPARTMENT OF TRANSPORTATION.

### 3. TESTING A DEN

DENSITY TESTS SHALL BE TAKEN BY AN INDEPENDENT TESTING LABORATORY, CERTIFIED BY
THE STATE OF FLORIDA, WHERE DIRECTED BY THE CITY OF CORAL GABLES INSPECTOR OR THE
FNGINFFR.

### VI. PROJECT CLOSE OUT:

- 1. CLEANING UP
- A. DURING CONSTRUCTION, THE PROJECT SITE AND ALL ADJACENT AREAS SHALL BE MAINTAINED IN A NEAT AND CLEAN MANNER AND THE PAVED AREAS SHALL BE SWEPT BROOM CLEAN.

  UPON FINAL CLEANUP, THE PROJECT SITE SHALL BE LEFT CLEAR OF ALL SURPLUS MATERIAL OR TRASH, AND THE PAVED AREAS SHALL BE BROOMED AND PRESSURE CLEANED.
- B. THE CONTRACTOR SHALL RESTORE OR REPLACE, WHEN AND AS DIRECTED, ANY PUBLIC OR PRIVATE PROPERTY DAMAGED BY HIS/HER WORK, EQUIPMENT AND/OR EMPLOYEES TO A CONDITION AT LEAST EQUAL TO THAT EXISTING IMMEDIATELY PRIOR TO THE BEGINNING OF
- C. THE CONTRACTOR SHALL REPLACE ALL PAVING, STABILIZED EARTH, CURBS, DRIVEWAYS, SIDEWALKS, FENCES, MAILBOXES, SIGNS AND ANY OTHER IMPROVEMENTS REMOVED DURING CONSTRUCTION WITH THE SAME TYPE OF MATERIAL AND TO THE CONDITION WHICH EXISTED PRIOR TO THE BEGINNING OF OPERATIONS.
- D. WHERE MATERIAL OR DEBRIS HAVE WASHED OR FLOWED INTO, OR HAVE BEEN PLACED IN WATER COURSES, DITCHES, DRAINS, CATCH BASINS, OR ELSEWHERE AS A RESULT OF THE CONTRACTOR'S OPERATIONS, SUCH MATERIAL OR DEBRIS SHALL BE REMOVED AND SATISFACTORILY DISPOSED OF DURING THE PROGRESS OF THE WORK, AND THE AREA KEPT IN A CLEAN AND NEAT CONDITION.
- E. ALL DISPOSAL OF EXCESS AND UNSUITABLE EXCAVATED MATERIAL, DEMOLITION, VEGETATION, RUBBISH AND DEBRIS SHALL BE MADE OUTSIDE THE LIMITS OF CONSTRUCTION AT A LEGAL DISPOSAL SITE PROVIDED BY THE CONTRACTOR AT HIS/HER OWN EXPENSE, WITH THE PRIOR APPROVAL OF THE ENVIRONMENTAL ENGINEER. MATERIAL CLEARED FROM THE SITE SHALL NOT BE DEPOSITED ON ADJACENT AND/OR NEARBY PROPERTY.
- 2. ALL PROPERTY MONUMENTS OR PERMANENT REFERENCES, REMOVED OR DESTROYED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RESTORED BY A STATE OF FLORIDA REGISTERED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
- 3. PROJECT RECORD DOCUMENTS
- A. DURING THE DAILY PROGRESS OF THE JOB, THE CONTRACTOR SHALL RECORD ON HIS SET OF CONSTRUCTION DRAWINGS THE EXACT LOCATION, LENGTH AND ELEVATION OF ANY FACILITY NOT BUILT EXACTLY ACCORDING TO PLANS.
- B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING TO THE ENGINEER A CERTIFIED RECORD SURVEY SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA WHOSE SERVICES ARE ENGAGED BY THE CONTRACTOR. THE RECORD SURVEY SHALL DEPICT ACTUAL FIELD LOCATIONS OF ALL CONSTRUCTED IMPROVEMENTS THAT ARE REQUIRED BY THE JURISDICTIONAL AGENCIES FOR THE CERTIFICATION PROCESS. THE ASBUILT SURVEY SHALL ALSO INCLUDE AS—BUILT GRADES AND LOCATIONS OF FINISHED PAVEMENT, SIDEWALKS, CURBS, AND ALL PHYSICAL IMPROVEMENTS. ALL SURVEY COSTS WILL BE THE CONTRACTORS RESPONSIBILITIES.
- 4. CONTRACTOR TO REPLACE ALL FOUND PIPES WITH NAIL AND DISKS.

### VII. PAVING

- . GENERAL
  A. ALL UNDERGROUND UTILITIES SHALL BE COMPLETED PRIOR TO CONSTRUCTION OF LIMEROCK BASE.
- B. ALL EXISTING PAVEMENT, CUT OR DAMAGED BY CONSTRUCTION SHALL BE PROPERLY RESTORED AT THE CONTRACTOR'S EXPENSE.
- C. WHERE ANY PROPOSED PAVEMENT IS TO BE CONNECTED TO EXISTING PAVEMENT, THE EXISTING EDGE OF PAVEMENT SHALL BE SAW CUT.
- D. PROPOSED ASPHALT PAVEMENT SHALL BE CONNECTED TO EXISTING AS PER FDOT AND MIAMI-DADE COUNTY STANDARD DETAILS. CONTRACTOR SHALL MATCH EXISTING ELEVATIONS ON NEW SIDEWALK OR NEW PAVEMENT
- E. CONTRACTOR SHALL REMOVE AND DISPOSE OF THE EXISTING CONC. CURB, CURB & GUTTER, SIDEWALK AND ASPHALT WHERE NEW SIDEWALK, CURB & GUTTER AND MEDIAN IS PROPOSED TO BE
- F. NONE OF THE EXISTING LIMEROCK BASE THAT IS REMOVED IS TO BE INCORPORATED INTO THE PROPOSED LIMEROCK BASE.
- 2. MATERIALS AND INSTALLATION
  A. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CITY OF CORAL GABLES.
- B. SUBGRADE FOR THE DRIVEWAYS AND PARKING AREAS SHALL BE COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DENSITY PER AASHTO SPECIFICATION T-180-74. THE MINIMUM COMPACTED THICKNESS OF THE STABILIZED SUBGRADE SHALL BE 12".

C. THE MINIMUM COMPACTED THICKNESS OF THE LIMEROCK BASE SHALL BE 8" AND BE PLACED IN TWO

EQUAL LIFTS. LIMEROCK SHALL BE PRIMED AND COMPACTED TO 98% PER A.A.S.H.T.O. T-180-74.

### VIII. PAVEMENT MARKINGS AND TRAFFIC SIGNS

- 1. PAVEMENT MARKINGS
- A. INSTALLATION: ALL PAVEMENT MARKINGS DAMAGED SHALL BE REPLACED IN ACCORDANCE WITH FDOT STANDARD INDEX #711-001.
- B. MATERIALS:

  (1) ALL PAVEMENT SYMBOLS AND MARKINGS TO BE THERMOPLASTIC WITH THE
- EXCEPTION OF PARKING STRIPING. INSTALLATION AND MATERIALS SHALL MEET ALL REQUIREMENTS OF SECTION 711 OF FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- THE CONTRACTOR SHALL NOT ALLOW TRAFFIC ONTO NEWLY APPLIED PAVEMENT STRIPING/MARKINGS UNTIL THEY ARE SUFFICIENTLY DRY TO PERMIT VEHICLES TO CROSS THEM WITHOUT DAMAGE. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, REMOVE AND REPLACE ANY PORTION OF THE PAVEMENT STRIPING/MARKINGS DAMAGED BY PASSING TRAFFIC OR FROM ANY OTHER
- TRAFFIC SIGNS
- A. INSTALLATION: TRAFFIC SIGNS REMOVED DURING CONSTRUCTION SHALL BE INSTALLED IN ACCORDANCE WITH THE M.U.T.C.D. AND INSTALLED IN THE SAME LOCATION.

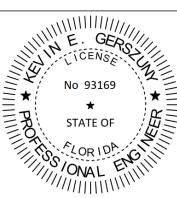
B. MATERIALS: FOLLOW SECTION NO. 700, HIGHWAY SIGNING, OF THE FDOT

STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND M.U.T.C.D.

1 PERMIT SET KEG 5/19/2023

No. Revisions By Date

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2 ALHAMBRA PLAZA SUITE 500, MIAMI, FL 33143
PHONE: 305-673-2025
WWW.KIMLEY-HORN.COM REGISTRY N.. 35106



4/6/2023 SCALE: AS SHOWN ESIGNED BY: KEG

OF CORAL GABLES
STATION CITY NO. 6
IMPROVEMENTS

CITY OF THE PROPERTY OF THE PR

ENERAL NOTES

(7)

1. THE CONTRACTOR SHALL MAKE EVERY REASONABLE EFFORT TO PERFORM THE WORK AND MAINTAIN SAFETY TO THE PUBLIC AND WORKERS, AND THE PROTECTION OF PROPERTY THROUGHOUT CONSTRUCTION. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH OSHA STANDARDS, AS APPLICABLE. CONTRACTOR MUST COMPLY WITH TRENCH SAFETY ACT.

2. ALL UTILITY CROSSING LINES IDENTIFIED ON PLANS AND PROFILES ARE BASED ON BEST AVAILABLE INFORMATION. CONTRACTOR SHALL VERIFY UTILITY INFORMATION WITH APPROPRIATE UTILITIES AND SUNSHINE STATE ONE CALL CENTER OF FLORIDA 811. CONTRACTOR TO INCLUDE ON RECORD DRAWINGSS ACCURATE ELEVATION AND LOCATION OF ALL UTILITY CONFLICTS.

- 3. ALL UTILITIES DAMAGED BY CONSTRUCTION MUST BE PROMPTLY REPAIRED TO THE CONDITION EXISTING PRIOR TO THE DAMAGING OF THE UTILITY. REPAIRS ARE INCIDENTAL TO THE INSTALLATION OF THE MAIN AND EXTENSIONS AND SHALL BE REPAIRED AT NO COST TO THE OWNER.
- 4. ALL EXISTING MANHOLES, ELECTRIC BOXES, METER BOXES, AND VALVE BOXES SHALL BE ADJUSTED TO THE PROPOSED GRADE.
- 5. PROPERTY DAMAGE RESULTING FROM WORK REQUIRED BY THIS CONTRACT SHALL BE CLEANED UP, REPAIRED OR REPLACED AT NO COST TO MDWASD.

6. CONTRACTOR SHALL PROVIDE ALL MAINS, ALL FITTINGS, ATTACHMENTS, AND EQUIPMENT REQUIRED TO PERFORM TESTING PER WASD STANDARDS.

- 7. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF ALL INSPECTIONS.
- 8. ALL TRENCHES TO BE OVER-EXCAVATED A MINIMUM OF 6" TO PROVIDE FOR INSTALLATION OF ROCK BEDDING IN ACCORDANCE WITH M-DWASD STANDARDS.
- 9. SURFACE RESTORATION, PAVEMENT REPLACEMENT, SIDEWALK REPLACEMENT, TRENCH BACKFILLING AND COMPACTION SHALL COMPLY WITH M-DWASD STANDARD DETAILS A1.0, A1.1, A4.0, AND THE APPLICABLE CURRENT CITY OF CORAL GABLED PUBLIC WORKS, M-DCPWD AND FDOT STANDARDS.
- 10. CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING SEWER LATERALS PRIOR TO THE CONSTRUCTION OF THE SANITARY SEWER CONNECTIONS. CONTRACTOR SHALL ADJUST THE ALIGNMENT OF THE SEWER CONNECTION AND PROVIDE THE REQUIRED FITTINGS AND CLEANOUTS AS NEEDED. ALL MODIFICATIONS TO ALIGNMENT SHALL BE CLEARLY RECORDED IN THE RECORD DRAWINGS DOCUMENTS.
- 11. THE APPROXIMATE LOCATION OF EXISTING UTILITIES SHOWN ON THE PLANS WERE PROVIDED BY THE RESPECTIVE UTILITY COMPANIES. THE EXACT HORIZONTAL AND VERTICAL LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. IN ADDITION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING IF "OTHER" UTILITIES (NOT SHOWN IN THE PLANS) EXIST WITHIN THE AREA OF CONSTRUCTION. SHOULD THERE BE UTILITY CONFLICTS THAT WERE NOT ANTICIPATED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.

12. THE PERMITTEE WILL ENSURE THAT NO UNSAFE AREA(S) FOR PEDESTRIAN WILL REMAIN DURING ANY TIME OF CONSTRUCTION. PEDESTRIAN CONTROL FOR CLOSURE OF ROADS AND SIDEWALKS SHALL BE IN ACCORDANCE WITH THE F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS INDEX SERIES 600.

13. ACCESS TO REMAIN OPEN AT ALL TIMES. THE PERMITTEE SHALL PROVIDE AND MAINTAIN SAFE TEMPORARY ACCESS TO ALL ADJACENT PROPERTY AT ALL TIMES AND SHALL MAINTAIN ACCOMMODATIONS FOR INTERSECTING AND CROSSING TRAFFIC WITHIN THE CONSTRUCTION ZONE. NO ROAD OR STREET CROSSING SHALL BE BLOCKED OR UNDULY RESTRICTED AS DETERMINED BY THE ENGINEER

(NOT A PART OF M-DWASD NOTES NOR APPROVAL)

### **RER-DERM WATER-SEWER GENERAL NOTES** 1. A horizontal distance of at least 6 feet, and preferably 10 feet (outside to outside), shall be maintained between gravity or pressure sewer pipes and water pipes. The minimum horizontal separation can be reduced to 3 feet for vacuum-type sewers or for gravity sewers where the top of the sewer pipe is at least 6 inches below the bottom of the water pipe. When the above specified horizontal The sewer pipes are designed and constructed equal to the water pipe and pressure tested at 150 psi. The sewer is encased in a watertight carrier pipe or concrete. c) The top of the sewer is at least 18 inches below the bottom of the water pipe. 2. A vertical distance of at least 12 inches (outside to outside) shall be maintained between any water and sewer mains with sewer pipes preferably crossing under water mains. The minimum vertical separation can be reduced to 6 inches for vacuum-type sewers or for gravity sewers where the sewer pipe is below the water main. The crossing shall be arranged so that all water main joints are at least 6 feet from all joints in gravity and pressure sewer pipes. This distance can be reduced to 3 feet for vacuum-type sewers. When the above specified vertical distance criteria cannot be met due to an existing underground facility conflict, smaller separations are allowed if one of the following is met: a) The sewer pipes are designed and constructed equal to the water pipe and pressure tested at 150 psi. b) The sewer is encased in a watertight carrier pipe or concrete. 3. Air release valves shall be provided at high points of new force main sanitary sewers. 4. Gravity sanitary sewers constructed within a public wellfield protection area shall be C-900 PVC or Ductile Iron Pipe. The maximum allowable exfiltration rate of gravity sanitary sewers constructed in a public wellfield protection area shall be: a) Residential Land Uses. Fifty (50) gallons per inch pipe diameter per mile per day, based on a minimum two (2) hour test having a minimum of two (2) feet of positive head above the crown of the pipe. Non-Residential Land Uses. Twenty (20) gallons per inch pipe diameter per mile per day, based on a minimum two (2) hour st having a minimum of two (2) feet of positive head above the crown of the pipe. c) Any observed leaks or any obviously defective joints or pipes shall be replaced even when the total leakage is below that allowed. The maximum allowable exfiltration rate of gravity sanitary sewers constructed outside a public wellfield protection area shall be one nundred (100) gallons per inch pipe diameter per mile per day, based on a minimum two (2) hour test having a minimum of two (2) feet of positive head above the crown of the pipe. Any observed leaks or any obviously defective joints or pipes shall be replaced even when the total leakage is below that allowed. 6. Forcemain sanitary sewers constructed within a public wellfield protection area shall be ductile iron, C-900 PVC, HDPE or reinforced concrete pressure sewer pipes. 7. The maximum allowable exfiltration/leakage rate of forcemain sanitary sewers shall be: a) Ductile Iron, C-900 PVC, HDPE and PVC Pipe. The allowable leakage rate specified in American Water Works Association Standard AWWAS) C600-82 at a test pressure of 100 psi for a duration of not less than two (2) hours. b) Reinforced Concrete Pressure Pipe. Half (1/2) the allowable leakage rate specified in AWWA C600-82 at a test pressure of 100 psi for a duration of not less than two (2) hours. c) Any observed leaks or any obviously defective joints or pipes shall be replaced even when the total leakage is below that allowed. 8. The contractor shall verify nature, depth, and character of existing underground utilities prior to start of construction. 9. In no case shall a contractor install utility pipes, conduits, cables, etc. in the same trench above an existing water or sewer pipe 10. If any area of the work site is found to contain buried solid waste and/or ground or ground water contamination, the following shall a) All work in the area shall follow all applicable safety requirements (e.g., OSHA, etc.) and notification must be provided to the appropriate agencies. b) Immediately notify the Environmental Monitoring and Restoration Division (EMRD). The EMRD can be contacted at (305) c) If contaminated soils and/or buried solid waste material is excavated during construction, then they require proper handling and disposal in accordance with the local, state and federal regulations. Be advised that the landfill owner/operator is the final authority on disposal and may have requirements beyond those provided by herein. If disposal within a Miami-Dade County owned landfill (Class I landfill) is appropriate and selected, please contact the Miami-Dade County Department of Solid Waste d) The reuse of contaminated soils that are not returned to the original excavation requires prior approval of a Soil Management Plan from the Environmental Monitoring and Restoration Division. The EMRD can be contacted at (305) 372-6700. 11. Pumps must comply with the National Electrical Code (NEC) requirements for Class I, Group D, Division 1 locations (Explosion Proof). 12. The contractor is advised that a Tree Removal/Relocation Permit may be required prior to the removal and/or relocation of tree resources. Prior to removing or relocating any trees, the Contractor shall notify the Tree and Forest Resources Section of DERM at (305) 372-6574 or via e-mail at: tfrs@miamidade.gov, or contact the municipality with tree ordinance jurisdiction to obtain any equired permits. Those trees not interfering with the construction shall be protected in place in accordance with the provisions of Section 24-49.5 of the Miami-Dade Code. 13. Please note that the demolition, removal, and/or disturbance of existing underground utilities that contain asbestos cement pipes (ACP) are subject to the provisions of 40 CFR-61 Subpart M. Therefore, pursuant to the provisions of 40 CFR-61-145, a NOTICE OF DEMOLITION OR ASBESTOS RENOVATION form must be filed with the Air Quality Management Division (AQMD) of DERM, at least ten (10) working days prior to starting of any work. Note that the backfilling and burial of crushed ACP would cause these locations to be considered active disposal sites and subject to 40 CFR-61.154, and 40 CFR-61.151 a year after project completion. Existing standard operating procedures, as well as applicable federal, state and local regulatory criteria, must be followed and implemented to minimize any potential release of fugitive emissions, especially during project construction activities. The AQMD can be contacted via email at <a href="mailto:asbestos@miamidade.gov">asbestos@miamidade.gov</a> or 305-372-6925.

p: pollution regulation delegated env permitting was conv. extensions sever extensions forms and package's application package's permit package package march-2017 ver-derm-notes official last one-revised to

NOT A PART OF MDWASD NOTES OR

APPROVAL

(NOT A PART OF M-DWASD REVIEW NOR APPROVAL)

REQUIREMENTS PER DEPARTMENT OF HEALTH

WATER MAIN HORIZONTAL SEPARATIONS

"RECORD DRAWINGS" FORMAT:

24"x36" PRINTS

EAST ZONE

STREET NOMENCLATURE.

THE WORDS "RECORD DRAWINGS" IN LARGE LETTERS.

SEPARATE RECORD DRAWINGS FOR WATER AND SEWER.

EASEMENTS, IF ANY, TIED TO PERMANENT REFERENCE POINT.

SEPARATE WATER AND SEWER PROFILE.

INFORMATION REFLECTED IN DRAWINGS.

SHALL BE CLEARLY IDENTIFIED AND LOCATED.

3. WATER "RECORD DRAWINGSS" MUST INCLUDE:

4. SEWER "RECORD DRAWINGSS" MUST INCLUDE:

MANHOLF

ON ALL RECORD DRAWING SUBMITTALS.

5. FORCE MAIN "RECORD DRAWING" SAME AS WATER MAIN.

IDENTIFIED AND LOCATED WITHIN THE PROJECT.

DEPARTMENT PRIOR TO PREPARATION OF DRAWINGS.

03/11/2009

07/20/2016

MIAMIDADE

WATER & SEWER DEPARTMENT

ISSUE DATE | APPROVED BY

\* OTHER SCALE MAY BE PERMITTED, BUT MUST BE APPROVED BY THE

V.F.C.

V.F.C.

PDF FILE

- 1. SEPARATIONS SHALL BE MEASURED OUTSIDE EDGE TO OUTSIDE EDGE. 2. BETWEEN WATER MAINS AND, STORM SEWERS, STORMWATER FORCE MAINS, OR RECLAIMED WATER LINES, SHALL BE 3 FT. MINIMUM.
- 3. BETWEEN WATER MAINS AND VACUUM TYPE SEWER PREFERABLY 10 FT. AND AT LEAST 3 FT. MINIMUM.
- 4. GRAVITY OR PRESSURE SANITARY SEWERS, WASTEWATER FORCE MAINS OR RECLAIMED WATER PREFERABLY 10 FT. AND AT LEAST 6

FT. MAY BE REDUCED TO 3 FT. WHERE BOTTOM OF WATER MAIN IS AT LEAST 6 INCHES ABOVE TOP OF SEWER. 5. 10 FT. OF ANY PART OF ON-SITE SEWER TREATMENT OR DISPOSAL SYSTEM.

1. AT THE COMPLETION OF ANY WATER AND SEWER JOB, EITHER DONATION OR CONTRACT, THE CONTRACTOR

TITLE BLOCK WITH DEPARTMENT DS, DW OR ER NUMBER AND PERTINENT INFORMATION.

PREFERRED SCALE TO BE 1"= 40' HORIZONTALLY AND 1"= 4' VERTICALLY.

DESIGN PERMIT PLANS, AND TO RUN CONTINUOUSLY TO END OF MAIN,

IDENTIFY ALL CONTROL LINES (I.E. BLDG. LINE, PROPERTY LINE, R/W, ETC).

A. RECORD DRAWINGS PRINTS WHICH HAVE BEEN SIGNED AND SEALED BY A FLORIDA LICENSED

PROFESSIONAL SURVEYOR AND MAPPER. (QTY. OF PRINTS, AS REQUIRED BY THE DEPARTMENT.)

CADD FILE (DWG OR DXF) ROTATED AND TRANSLATED TO STATE PLANE COORDINATES NAD 83 FLORIDA

STATIONING STARTING WITH 0+00 AT PERMANENT REFERENCE POINT (I.E., &, SL ETC.) OR AS SHOWN ON

ALL "PROPOSED" INFORMATION TO BE REMOVED FROM PRINTS, LEAVING ONLY RECORD DRAWING

PLANS SHOWING PIPE SIZE, MATERIAL AND OFFSET OF MAIN, DEFLECTIONS (IF ANY), STATION OF

SERVICES, HYDRANTS, VALVES, FITTINGS, IF ANY, ALL IN STATE PLANE COORDINATES. UTILITY CROSSINGS

PROFILE SHOWING TOP OF GROUND AND TOP OF PIPE ELEVATIONS AT EVERY 100' STATION AND AT ANY

CHANGE IN GRADE (WITH CORRESPONDING STATION), PIPE SIZE AND PIPE MATERIALS REFERENCED TO

THE NORTHERLY AND EASTERLY COORDINATES ON ALL FIELD OBTAINED MEASUREMENTS AND PROVIDED

PROFILE SHOWING MANHOLE NUMBER (AS PER PLAN), RIM AND INVERT ELEVATIONS (IF MORE THAN ONE

INVERT, LABEL NORTH, SOUTH, ETC), AND STATION STARTING AT EACH 0+00 AT DOWNSTREAM

6. EACH RECORD DRAWINGS SHALL SHOW THE FLORIDA STATE PLANE COORDINATES (CURRENT READJUSTMENT)

OF ALL THE MANHOLES AND VALVES AND OF AT LEAST TWO HORIZONTAL CONTROL POINTS PROPERLY

a. PLAN SHOWING MANHOLE NUMBER, PIPE SIZE AND PIPE MATERIAL OF PIPE, DEFLECTION, SLOPE OF

GRAVITY SEWER, LOCATION OF LATERALS WITH REFERENCE TO MANHOLE AND CLEANOUTS.

WATER MAIN VERTICAL SEPARATIONS

- 6. SEPARATIONS BETWEEN WATER MAINS AND GRAVITY SEWER, VACUUM TYPE SEWER, OR STORM SEWERS, TO BE PREFERABLY 12 INCHES, OR AT LEAST 6 INCHES ABOVE, OR AT LEAST 12 INCHES IF BELOW.\*
- 7. PRESSURE SANITARY SEWER, WASTEWATER OR STORM WATER FORCE MAIN, OR RECLAIMED WATER, AT LEAST 12 INCHES ABOVE OR BELOW.\*
- \* NOTE: CENTER 1 FULL LENGTH OF WATER MAIN PIPE AT CROSSINGS; ALTERNATIVELY ARRANGE PIPES SO JOINTS ARE AT LEAST 3 FEET FROM JOINTS IN VACUUM, STORM OR STORM FORCE MAINS. AT LEAST 6 FEET FROM JOINTS IN GRAVITY OF PRESSURE SEWERS, WASTEWATER FORCE MAINS OR RECLAIMED WATER.

### TRENCH PROTECTION

TRENCH EXCAVATION PROTECTION SHALL BE ACCOMPLISHED AS REQUIRED BY THE PROVISIONS OF, PART 1926, SUBPART P, EXCAVATIONS, TRENCHING AND SHORING OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATIONS STANDARDS AND INTERPRETATIONS.

> ALL MATERIALS AND LABOR UNDER THIS PROJECT SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE MIAMI-DADE WATER AND SEWER DEPARTMENT AND SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS AVAILABLE AND ON FILE WITH THE DEPARTMENT. SUBMIT SHOP DRAWINGS FOR ALL MATERIALS.

2. COVER OVER WATER OR SEWER FORCE MAINS SHALL BE 4'-0" MIN.

NOT A PART OF

APPROVAL

MDWASD NOTES OR -

- 3. ALL MAIN LINE VALVES SHALL BE INSTALLED COMPLETE WITH 10" RISER PIPES AND NO. 3 OR 53 VALVE BOXES FIRE HYDRANTS AND SERVICE VALVES SHALL BE INSTALLED COMPLETE WITH 6" RISER PIPES AND NO. 2 VALVE BOXES.
- 4. ALL FORCE MAIN SERVICE CONNECTIONS INTO PRESSURE TRANSMISSION MAINS SHALL HAVE A SHUT OFF VALVE AND CHECK VALVE AT
- 5. ALL GRAVITY SYSTEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH DEPARTMENT STANDARDS.
- 6. ALL WATER METERS WILL BE INSTALLED BY THE MIAMI-DADE WATER AND SEWER DEPARTMENT PROVIDING THE APPROPRIATE CHARGES HAVE BEEN PREPAID.
- FIRE HYDRANT REQUIREMENTS (NUMBER AND LOCATION) SHALL BE AS REQUIRED BY THE MIAMI-DADE COUNTY FIRE DEPARTMENT OR THE APPROPRIATE FIRE AGENCY WITH INSTALLATION IN ACCORDANCE WITH DEPARTMENT STANDARDS.
- CONTRACTOR MUST CALL M-DWASD INSPECTION DIVISION TO ARRANGE FOR A PRECONSTRUCTION MEETING 2 FULL BUSINESS DAYS PRIOR TO PROPOSED START OF CONSTRUCTION. CONTACT ONE CALL CENTER 48 HRS PRIOR TO EXCAVATION.
- 9. CONTRACT INSPECTOR WILL INSPECT ANY FACILITIES APPROVED BY THE DEPARTMENT. ALL OTHER REQUIREMENTS OF THE PERMITTING AGENCY SHALL BE IN ACCORDANCE WITH THEIR STANDARDS AND REQUIREMENTS.
- 10. WORK PERFORMED UNDER THIS PROJECT WILL NOT BE CONSIDERED AS COMPLETE UNTIL FINAL ACCEPTANCE OF THE SYSTEM BY THE DEPARTMENT AND UNTIL THE FOLLOWING DOCUMENTS ARE RECEIVED AND APPROVED BY THE DEPARTMENT:
- EASEMENTS, IF REQUIRED.

SUPERVISION OF THE INSPECTOR.

- CONTRACTOR'S WAVER AND RELEASE OF LIEN.
- ABSOLUTE BILL OF SALE. i. CONTRACTOR'S LETTER OF WARRANTY (I.E., LETTER AGREEMENT).
- ii. DEVELOPER'S CONTRACT BOND (I.E., CONTRACT AGREEMENT). "RECORD DRAWING" PRINTS 24"x36" SHOWING SPECIFIC LOCATIONS, DEPTH, ETC. OF ALL WATER AND SEWER FACILITIES AS LOCATED BY A LICENSED FLORIDA SURVEYOR & MAPPER, ALONG WITH PRINTS OF "RECORD DRAWINGS" WHICH HAVE BEEN SIGNED AND SEALED BY A REGISTERED SURVEYOR & MAPPER. (No. OF PRINTS: 3-FOR WATER, 4-FOR GRAVITY SEWER AND 5-FOR FORCE MAIN OR PUMP STATION PROJECTS). Submittal of CAD Files required.
- H.R.S. LETTER OF RELEASE REQUIRED FOR ALL WATER PROJECTS. BILL OF SALE SKETCH (8h"x11) FOR WATER AND SEWER, SEPARATELY.
- 11. ALL NEW CONNECTIONS FROM EXISTING DEPARTMENT MAINS TO BE MADE BY DEPARTMENT FORCES ONLY. THE CONTRACTOR TO

EXCAVATE AT REQUIRED LOCATIONS, PROVIDE AND INSTALL MATERIAL WITH FITTINGS, PRIOR TO TAP.

- 12. AN APPROVED PAVING AND DRAINAGE PLAN MUST BE SUBMITTED TO MDWASD FOR ALL NEW SUBDIVISIONS PRIOR TO APPROVAL OF WATER AND SEWER PERMIT PLANS, UPON REQUEST.
- 13. UNLESS OTHERWISE SPECIFIED, ALL TAPS 20 INCHES AND SMALLER FOR CONNECTIONS TO EXISTING MAINS WILL BE DONE BY DEPARTMENT FORCES. UNDER NO CIRCUMSTANCES WILL THE CONTRACTOR BE PERMITTED TO TAP EXISTING MAINS IN THE SIZE RANGE SPECIFIED ABOVE. THE TAPPING SLEEVE AND TAPPING VALVE ARE FURNISHED AND INSTALLED BY THE CONTRACTOR UNDER THE

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				ITEM	CROSS REF.	SPEC. REF.	
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WATER & SEWER DEPARTMENT				3311311	Jaile 1	1 01 2	

### FOR ALL PROJECTS WHERE REMOVAL OF UTILITY LINES IS PROPOSED

ITEM

STANDARD DETAIL

"ASBUILT" REQUIREMENTS

CROSS | SPEC

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SHEET 2 OF 2

1. ALL EXISTING UTILITIES BEING REMOVED AND/OR RELOCATED MUST REMAIN ACTIVE AND IN SERVICE, UNTIL SUCH TIME WHEN NEW REPLACING UTILITIES HAVE BEEN INSTALLED, IN SERVICE, ACCEPTED BY THE CITY OF CORAL GABLES AND ALL RELATED SERVICES FROM THE EXISTING MAINS HAVE BEEN TRANSFERRED TO THE NEW ONES.

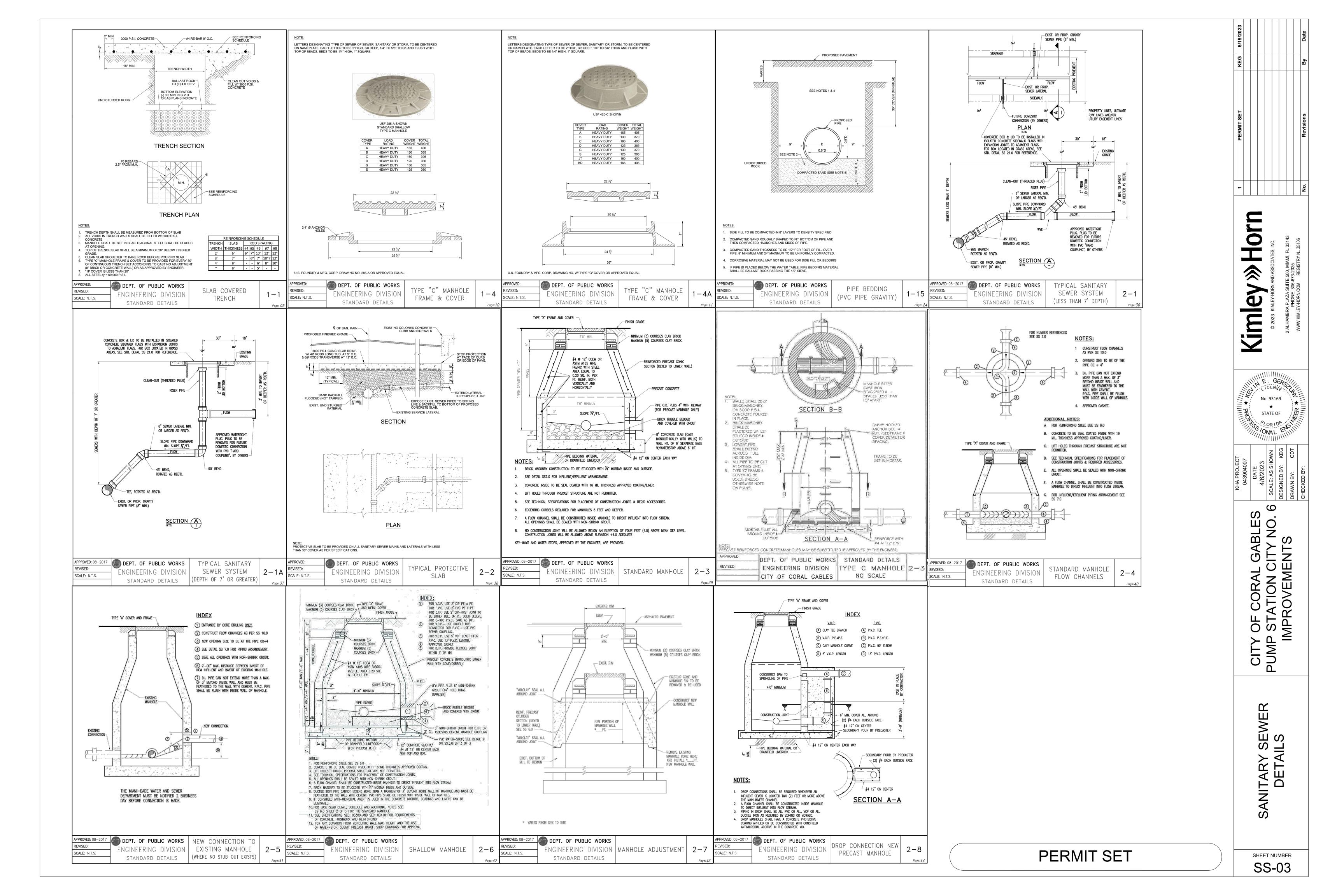
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SHEET NUMBER **SS-02** 



### SITE DESCRIPTION

### SITE LOCATION & DESCRIPTION:

AREA BOUNDED BY MALAGA AVENUE TO SALZEDO STREET, ALONG SALZEDO STREET TO CAMILO AVENUE, CAMILO AVENUE TO PONCE DE LEON BOULEVARD.

TOTAL SITE AREA:

3.74 AC.

TOTAL DISTURBED AREA:

SITE AREA 3.74 AC.

SEQUENCE OF CONSTRUCTION AND SOIL DISTURBING ACTIVITIES:

IMPLEMENTATION OF PERIMETER CONTROLS AND SEDIMENT TRAPS. EXCAVATION, INSTALLATION AND TESTING OF UNDERGROUND SEWER PIPING, SERVICES, AND RESTORATION OF PAVEMENT/SIDEWALK/SWALE AREAS.

### POTENTIAL POLLUTANTS ONSITE:

SAND & SEDIMENTATION

CLEANING SOLVENTS

ROCK ASPHALT

GASOLINE

GREASE

PAINT CEMENT

CARDBOARD

PAPER DOMESTIC GARBAGE

OILS

### EXISTING SOIL DATA

AS INDICATED IN THE MIAMI DADE COUNTY SOIL SURVEY MAP, THE SERIES WHERE THE PROJECT IS LOCATED IS THE DUETTE LAND COMPLEX.

### DISCHARGE AND RECEIVING WATER BODY

EXISTING DRY DETENTION AREAS (SWALES) AND EXFILTRATION. RECEIVING WATER BODY IS THE LOCAL GROUND WATER TABLE.

### POLLUTION SOURCE CONTROLS

### EROSION AND SEDIMENT CONTROLS

### STABILIZATION PRACTICES:

ACCEPTABLE PRACTICES INCLUDE TEMPORARY SEEDING, PERMANENT SEEDING, MULCHING, GEOTEXTILES, SOD STABILIZATION, VEGETATIVE BUFFER STRIPS, FENCE PROTECTION OF TREES, PRESERVATION OF MATURE VEGETATION. STABILIZATION SHALL BE INITIATED NO MORE THAN 14 DAYS IN AREAS WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED.

CONTRACTOR SHALL MAINTAIN A RECORD OF DATES WHEN MAJOR GRADING ACTIVITIES OCCUR. WHEN CONSTRUCTION TEMPORARILY OR PERMANENTLY CEASES AND WHEN STABILIZATION IS INITIATED AND COMPLETED

### STRUCTURAL PRACTICES:

ACCEPTABLE STRUCTURAL PRACTICES INCLUDE SILT FENCES, HAY BALES, EARTH DIKES, DRAINAGE SWALES, SEDIMENT TRAPS, CHECK DAMS, TURBIDITY BARRIERS. SUBSURFACE DRAINS, PIPE SLOPE DRAINS, LEVEL SPREADERS, STORM DRAIN INLET GUARANTEED ANALYSIS LABEL SHALL NOT BE APPLIED THROUGH AN IRRIGATION SYSTEM WITHIN 10 PROTECTION, ROCK OUTLET PROTECTION, REINFORCED SOIL RETAINING SYSTEMS, GABIONS, AND TEMPORARY OR PERMANENT SEDIMENT BASINS.

STRUCTURAL PRACTICES SHOULD BE PLACED ON UPLAND SOILS UNLESS SPECIFIED OTHERWISE BY THE FLORIDA WETLAND RESOURCE OR ENVIRONMENTAL RESOURCE PERMIT. FOR DRAINAGE LOCATIONS SERVING MORE THAN 5 ACRES OF DISTURBED LAND AT ONE TIME, A SEDIMENT BASIN PROVIDING 3,600 CUBIC FEET OF STORAGE PER ACRE DRAINED OR EQUIVALENT MEASURE MUST BE PROVIDED UNTIL FINAL STABILIZATION OF THE SITE. FOR DRAINAGE LOCATIONS SERVING LESS THAN 5 ACRES OF DISTURBED LAND AT ONE TIME, SEDIMENT BASINS OR TRAPS SHOULD

SEDIMENT BASINS SHALL BE INSTALLED IN LOCATION OF PERMANENT STORM WATER RETENTION FACILITIES IF POSSIBLE. WHEN PERMANENT STORM WATER RETENTION PONDS ARE TO BE USED AS TEMPORARY SEDIMENT BASINS ACCUMULATED SEDIMENTS MUST BE COMPLETELY REMOVED AND EXCAVATION FOR TEMPORARY SEDIMENT BASIN SHALL NOT EXCEED INCHES ABOVE THE BOTTOM

ELEVATION OF THE PERMANENT STORM WATER POND. SILT FENCES OR EQUIVALENT SEDIMENT CONTROLS ARE REQUIRED FOR ALL SIDE SLOPE AND DOWN SLOPE BOUNDARIES OF THE CONSTRUCTION AREA.

STORM DRAIN INLETS SHALL BE PROTECTED FROM SEDIMENT LOADING DURING THE COURSE OF CONSTRUCTION BY THE USE OF SEDIMENT FILTERS OR AN EXCAVATED IMPOUNDING AREA PROPERLY INSTALLED AND MAINTAINED AROUND THE STORM DRAIN DROP OR CURB INLET. INLET PROTECTION SHALL REMAIN IN PLACE UNTIL PERMANENT STABILIZATION OF DISTURBED AREA TO KEEP POLLUTANTS FORM ENTERING THE CONVEYANCE SYSTEM.

EROSION CONTROL DEVICES TO BE INSTALLED IN ACCORDANCE WITH FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND TRAFFIC DESIGN STANDARDS (LATEST EDITION).

### WASTE, SANITARY, AND SEPTIC TANK DISPOSAL CONTROLS

SOLID WASTE PRODUCED ON-SITE SHALL BE PROPERLY DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS. SOLID WASTE IS TO BE HAULED OFF-SITE AND DISPOSED OF AT A LICENSED LAND FILL. NO SOLID MATERIALS INCLUDING BUILDING MATERIALS SHALL BE DISCARDED INTO SURFACE WATERS. SPECIFIC LOCATIONS ONSITE SHALL BE DESIGNATED FOR WASTE RECEPTACLES AND A COLLECTION SCHEDULE MUST BE ESTABLISHED SPECIAL PROVISIONS SHALL BE MADE FOR THE COLLECTION, STORAGE, AND DISPOSAL OF TOXIC AND HAZARDOUS SUBSTANCES IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL HEALTH AND SAFETY REGULATIONS. WASTE COLLECTION AREAS ARE TO BE MAINTAINED AND ARE TO BE LOCATED IN LOCATIONS LEAST LIKELY TO BE AFFECTED BY CONCENTRATED STORMWATER RUNOFF.

CONTRACTOR SHALL ENSURE AND DEMONSTRATE COMPLIANCE WITH ALL APPLICABLE STATE AND LOCAL REGULATIONS DURING WASTE, SANITARY, AND SEPTIC TANK DISPOSAL. ADEQUATE SANITARY FACILITIES SHALL BE PROVIDED ON SITE FOR WORKERS IN ACCORDANCE WITH APPLICABLE HEALTH REGULATIONS.

### OFF-SITE VEHICLE TRACKING OF SEDIMENTS CONTROLS

OFF-SITE VEHICLE TRACKING OF SEDIMENTS AND GENERATION OF DUST SHALL BE MINIMIZED. CALCIUM CHLORIDE, OILS OR OTHER CHEMICAL DUST CONTROL AGENTS SHOULD NOT BE USED ON CONSTRUCTION ROADS. AREAS SHALL BE PERIODICALLY WATERED TO MINIMIZE DUST. A STONE STABILIZED PAD SHALL BE LOCATED AT POINTS OF VEHICULAR INGRESS AND EGRESS ON THE

CONSTRUCTION SITE TO AVOID TRANSPORTING SEDIMENTS TO OFF-SITE ROADS. SPECIALLY DESIGNATED WASH AREAS FOR WASHING OF VEHICLES SHALL BE LOCATED WHERE WASH WATER WILL NOT DISCHARGE DIRECTLY TO SURFACE WATERS OR STORM WATER CONVEYANCE SYSTEMS. WASH AREAS SHALL BE LOCATED WHERE WASH WATER CAN SPREAD OUT AND EVAPORATE OR INFILTRATE DIRECTLY INTO THE GROUND OR WHERE RUNOFF CAN BE COLLECTED IN TEMPORARY HOLDING OR SEEPAGE BASIN. WASH AREAS SHALL HAVE GRAVEL BASES TO MINIMIZE MUD GENERATION.

### **DEMOLITION CONTROLS**

CALCIUM CHLORIDE, OILS OR OTHER CHEMICAL DUST CONTROL AGENTS SHOULD NOT BE USED TO CONTROL DUST. AREAS SHALL BE PERIODICALLY WATERED TO MINIMIZE THE TRANSPORT OF AIRBORNE POLLUTANTS. WATER OR SLURRY USED TO CONTROL DUST MUST BE RETAINED ONSITE AND NOT ALLOWED TO RUN INTO SURFACE WATERS OR STORM WATER CONVEYANCE SYSTEMS.

### FERTILIZER AND PESTICIDE CONTROLS

### A. ALL FERTILIZERS SHALL BE STORED IN A DRY STORAGE AREA PROTECTED FROM RAINFALL AND PONDING.

B. NO FERTILIZER CONTAINING IN EXCESS OF 2% PHOSPHATE/PHOSPHORUS (P205) PER GUARANTEED ANALYSIS LABEL (AS DEFINED BY CHAPTER 576, FLORIDA STATUTES) SHALL BE APPLIED TO TURFGRASS, PASTURES, PADDOCKS, OR USED IN NURSERIES UNLESS JUSTIFIED BY A SOIL TEST. C. FERTILIZER CONTAINING IN EXCESS OF 2% PHOSPHATE/PHOSPHORUS (P205) PER GUARANTEED ANALYSIS LABEL SHALL NOT BE APPLIED WITHIN 5 FEET OF THE EDGE OF WATER OR WITHIN 5 FEET OF A DRAINAGE FACILITY.

D. ALL FERTILIZER SHALL BE APPLIED SUCH THAT SPREADING OF FERTILIZER ON ALL IMPERVIOUS SURFACES IS MINIMIZED. E. LIQUID FERTILIZERS CONTAINING IN EXCESS OF 2% PHOSPHATE/PHOSPHORUS (P205) PER

FEET OF THE EDGE OF WATER OR WITHIN 10 FEET OF A DRAINAGE FACILITY. F. LIQUID FERTILIZERS CONTAINING IN EXCESS OF 2% PHOSPHATE/PHOSPHORUS (P205) PER GUARANTEED ANALYSIS LABEL SHALL NOT BE APPLIED THROUGH HIGH OR MEDIUM MIST APPLICATION OR DIRECTED SPRAY APPLICATION WITHIN 10 FEET OF THE EDGE OF WATER OR WITHIN 10 FEET OF A DRAINAGE FACILITY.

THE USE OF PESTICIDES, FUNGICIDES, OR HERBICIDES IS LIMITED TO PRODUCTS THAT MEET THE FOLLOWING CRITERIA:

- A. MUST BE CONSISTENT WITH THE USDA-NRCS SOIL RATING FOR SELECTING PESTICIDES. MUST HAVE THE MINIMUM POTENTIAL FOR LEACHING INTO GROUNDWATER OR LOSS FROM RUNOFF.
- C. PRODUCTS MUST BE EPA APPROVED. D. THE HALF-LIFE OF PRODUCTS USED SHALL NOT EXCEED SEVENTY (70) DAYS

WATERS USED TO SPRAY OFF LOOSE SOLIDS FROM VEHICLES OR CONTROL DUST

### NON-STORMWATER DISCHARGES

IRRIGATION DRAINAGE

NON-STORMWATER DISCHARGES WHICH MUST BE IDENTIFIED ON THE POLLUTION PREVENTION PLAN

ROUTINE EXTERNAL BUILDING WASHDOWN WHICH DOES NOT USE DETERGENTS PAVEMENT WASHWATERS WHERE SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE NOT OCCURRED AND WHERE DETERGENTS ARE NOT USED. AIR CONDITIONING CONDENSATE

FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH PROCESS MATERIALS SUCH AS SOLVENTS.

### APPROVED STATE OR LOCAL PLANS

ALL REQUIREMENTS APPLICABLE TO PROTECTION OF SURFACE WATER QUALITY, SEDIMENT, AND EROSION CONTROL STATED AS GENERAL AND/OR SPECIFIC PROJECT CONDITIONS OF STATE, REGIONAL AND/OR LOCAL ENVIRONMENTAL RESOURCE PERMITS FOR THE PROJECT ARE INCLUDED AS PART OF THIS PLAN. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS STIPULATED IN THE STATE, REGIONAL, AND/OR LOCAL PERMITS.

BCEPD SWM LICENSE NO. \_\_\_\_\_ APPROVAL DATE: \_\_\_\_ EXPIRATION DATE: \_\_\_\_\_ FDOT DRAINAGE PERMIT NO. \_\_\_\_\_ APPROVAL DATE: \_\_\_\_ EXPIRATION DATE: \_\_\_\_

### MAINTENANCE

A REGULAR MAINTENANCE PROGRAM SHOULD INSURE INSPECTION AND MAINTENANCE OF BMPS BY THE CONTRACTOR WEEKLY AND/OR AFTER SIGNIFICANT RAIN EVENTS. ANY FAILURES SHOULD BE ANALYZED TO PREVENT RECURRENCE. SUBSTANTIAL CHANGES TO THE APPROVED PLAN MUST BE MADE OR REVIEWED BY THE DESIGNER AND APPROVED BY THE APPROPRIATE REGULATORY AGENCY. POLLUTION PREVENTION CONTROLS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS SHALL BE MADE IMMEDIATELY. SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH STORM EVENT AND WHEN SEDIMENT HAS OVER ACCUMULATED. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA IN SUCH A MANNER THAT IT WILL NOT

### EXAMPLE MAINTENANCE ROUTINES INCLUDE:

SILT BARRIERS: SEDIMENT MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY  $1\!\!\!/_2$  THE HEIGHT OF THE BARRIER. STORM DRAIN INLET PROTECTION:

SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ½ OF THE DESIGN DEPTH OF THE TRAP. STRUCTURES SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE REMAINING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ½ THE DESIGN VOLUME OF THE TRAP. THE STRUCTURE SHOULD BE CHECKED REGULARLY TO INSURE THAT IT IS STRUCTURALLY SOUND AND HAS NOT BEEN DAMAGED BY EROSION OR CONSTRUCTION EQUIPMENT. THE HEIGHT OF THE OUTLET SHOULD BE CHECKED TO ENSURE THAT ITS CENTER IS AT LEAST ONE FOOT (30 CM) BELOW THE TOP OF THE EMBANKMENT.

**TURBIDITY BARRIERS:** THE DEVELOPER/OWNER SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE FILTER CURTAIN FOR THE DURATION OF THE PROJECT TO ENSURE THE CONTINUOUS PROTECTION OF THE WATERCOURSE. SHOULD REPAIRS TO THE GEOTEXTILE FABRIC BECOME NECESSARY, THERE ARE NORMALLY REPAIR KITS AVAILABLE FROM THE MANUFACTURERS; MANUFACTURER'S INSTRUCTIONS MUST BE FOLLOWED TO ENSURE THE ADEQUACY OF THE REPAIR. WHEN THE CURTAIN IS NO LONGER REQUIRED AS DETERMINED BY THE INSPECTOR, THE CURTAIN AND RELATED COMPONENTS SHALL BE REMOVED IN SUCH A MANNER AS TO MINIMIZE TURBIDITY. SEDIMENT SHALL BE REMOVED AND THE ORIGINAL DEPTH (OR PLAN ELEVATION) RESTORED BEFORE REMOVING THE CURTAIN. REMAINING SEDIMENT SHALL BE SUFFICIENTLY SETTLED BEFORE REMOVING THE CURTAIN. ANY SPOILS MUST BE TAKEN TO AN UPLAND AREA AND STABILIZED.

### INSPECTIONS

SEDIMENT TRAPS:

QUALIFIED PERSONNEL (PROVIDED BY THE DISCHARGER) SHALL INSPECT ALL POINTS OF DISCHARGE INTO WATERS OF THE U.S. OR TO A MUNICIPAL SEPARATE STORM SEWER SYSTEM AND ALL DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED, AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION, STRUCTURAL CONTROL MEASURES, 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 0.25 INCHES OR GREATER. WHERE SITES HAVE BEEN FINALLY STABILIZED, SAID INSPECTION SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH UNTIL THE NOTICE OF TERMINATION (NOT) IS FILED.

	SITE	OPERATOR'S	NPDES	INSPECTION	REPORT	FORM
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		DATE/TIME:
DATE OF LAST RAI	NFALL:	RAINFALL AMOUNT:
SITE DESCRIPTION PROJECT NAME AN	ID LOCATION:	
DISCHARGE LOCATI MEASURES ARE EF	ONS: WHERE ACCESSIBLE, INSPECT TO ASCER	TAIN WHETHER EROSION CONTROL
FINDING:		
	INSPECT FOR EVIDENCE OF, OR POTENTIAL FO	

MATERIALS STORAGE AREAS: THE STORM WATER SYSTEM.	INSPECT FOR	EVIDENCE	OF, OR	POTENTIAL F	OR, POLLUTANTS	ENTERING
FINDING:						

TRUCTURAL	CONTROL	DEVICES:	INSPECT	то	ENSURE	PROPER	OPERATION.	 	
NDING:									

VEHICLE INGRESS/EGRESS LOCATION	S: INSPECT FOR EVIDENCE	OF OFFSITE SEDIMENT TRACKING.
ENIBALO		
FINDING:		

STORM	WATER	MANAGEMENT	FACILITIES:	INSPECT	TO	<b>ENSURE</b>	PROPER	INSTALLATION.	
	<b>.</b> .								

RECOMMENDED	REVISIONS	TO PP	P BASED	ON	THIS	REPORT:			

EVISIONS TO BE COMPLETED ON OR BEFORE:	RY.
EVISIONS TO BE SOME ELIES ON SIX BEIONE.	
BX:	

CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY

ESPONS	SIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED 15, TO THE BEST (
NOWLED	DGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE
<b>IGNIFICA</b>	ANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE
//PRISON	MENT FOR KNOWING VIOLATIONS.
IGNED:	
ATE:	

### OWNER/OPERATOR'S CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION. THE INFORMATION SUBMITTED IS. TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

SIGNED:	DATE:
PRINTED NAME/TITLE:	
,	(OWNER/OPERATOR OR AUTHORIZED AGENT)
CONTRACTOR /SUBCONTRACTOR CERTIFICATION	

CONTRACTOR/

ANY AND ALL CONTRACTORS AND SUBCONTRACTORS LISTED IN THE POLLUTION PREVENTION PLAN MUST COMPLETE THE FOLLOWING CERTIFICATION TO BE KEPT WITH THE PLAN.

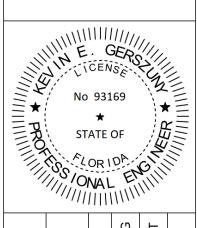
SITE LOCATION:
CONTRACTING FIRM INFORMATION:
NAME:
ADDRESS:

PHONE NO.: (\_\_\_\_) \_\_\_\_\_ I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE FINAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT FOR STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES, PUBLISHED IN THE FEDERAL REGISTER ON MARCH 31, 1998, THAT AUTHORIZES THE STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

SIGNED:	DATE:
PRINTED NAME/TITLE:	

**AUTHORIZED** 

SUB-CONTRACTOR COMPANY NAME	REPRESENTATIVE (PRINT NAME/TITLE)	SIGNATURE	DATE	PHONE NO.



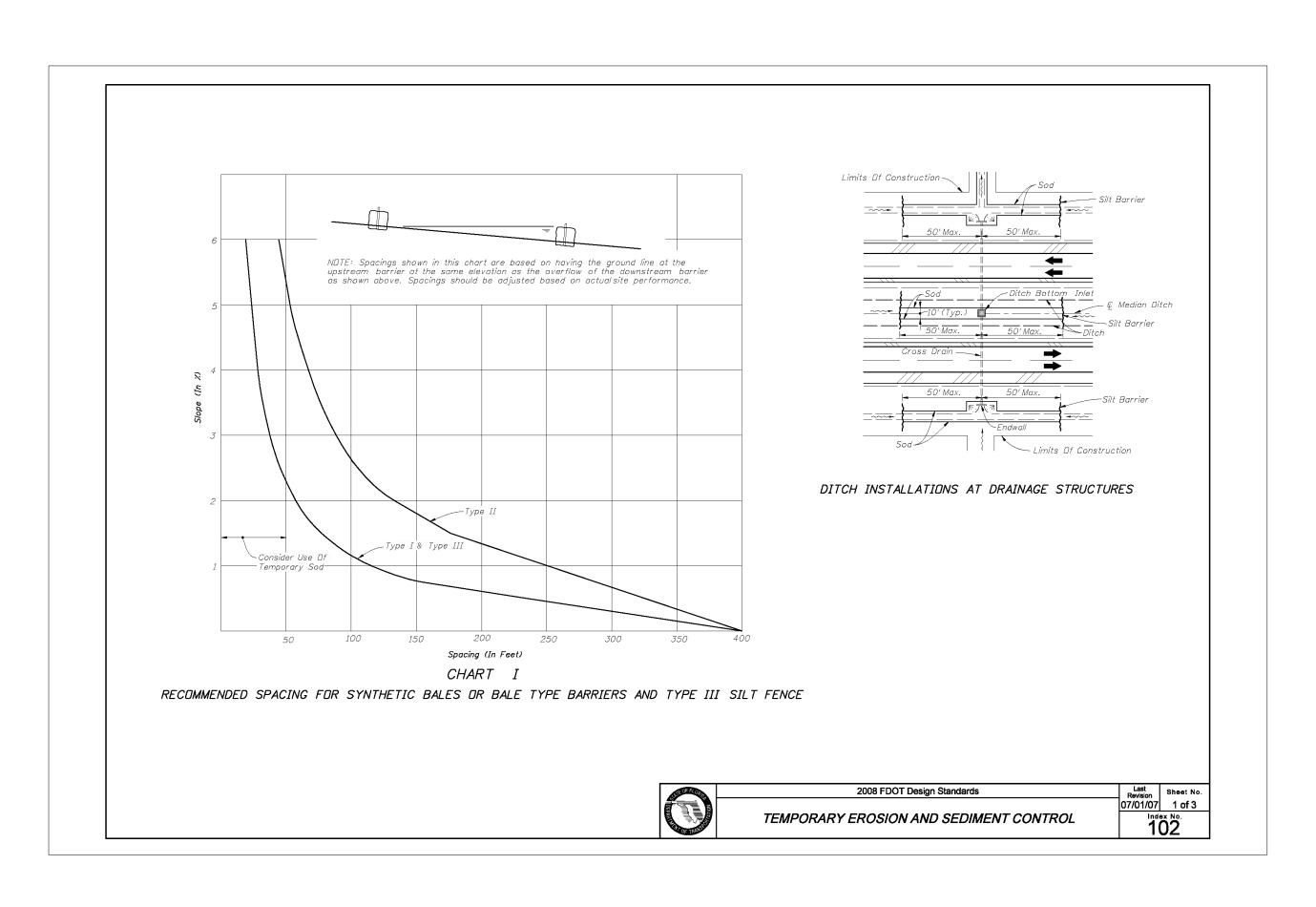
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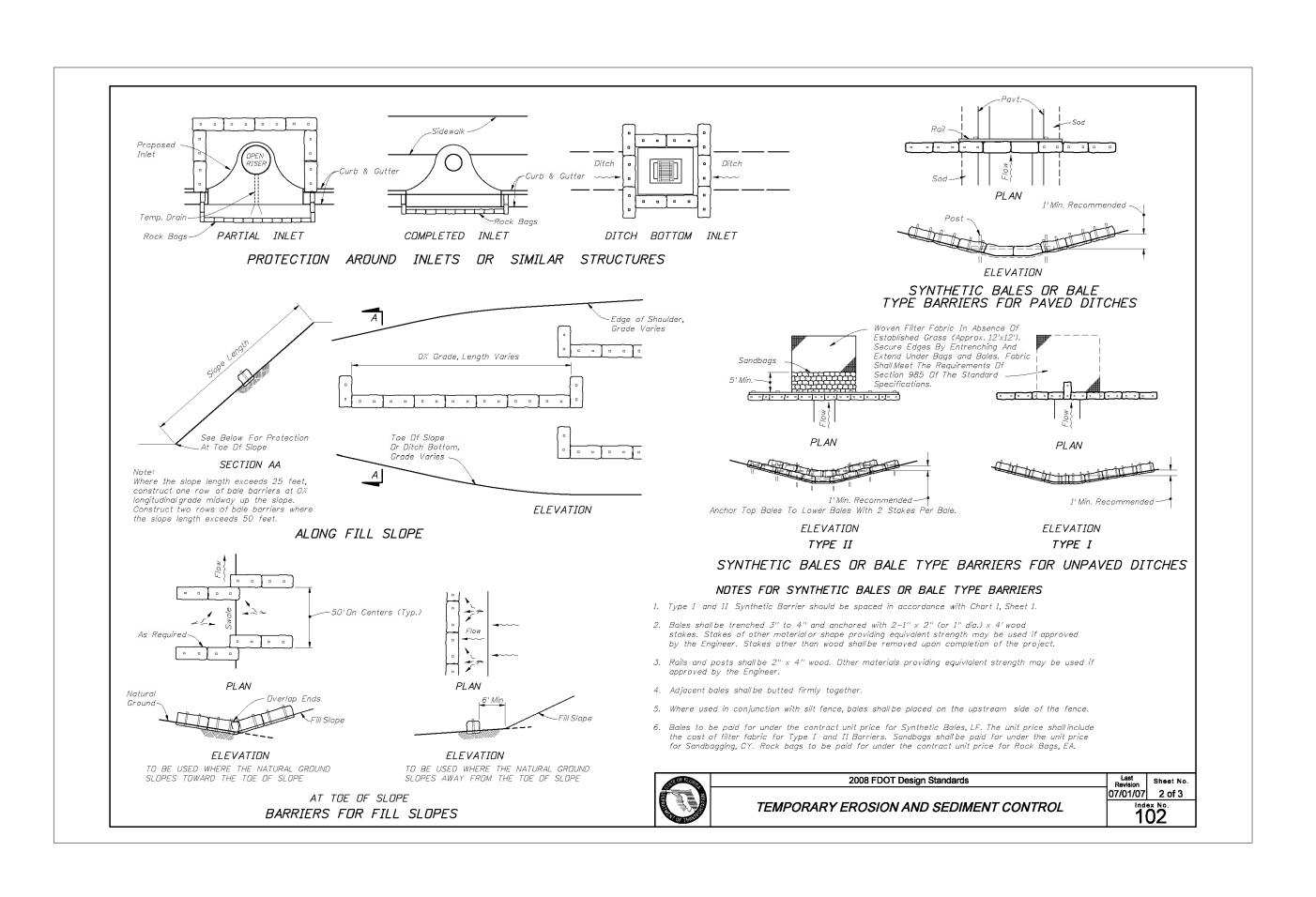
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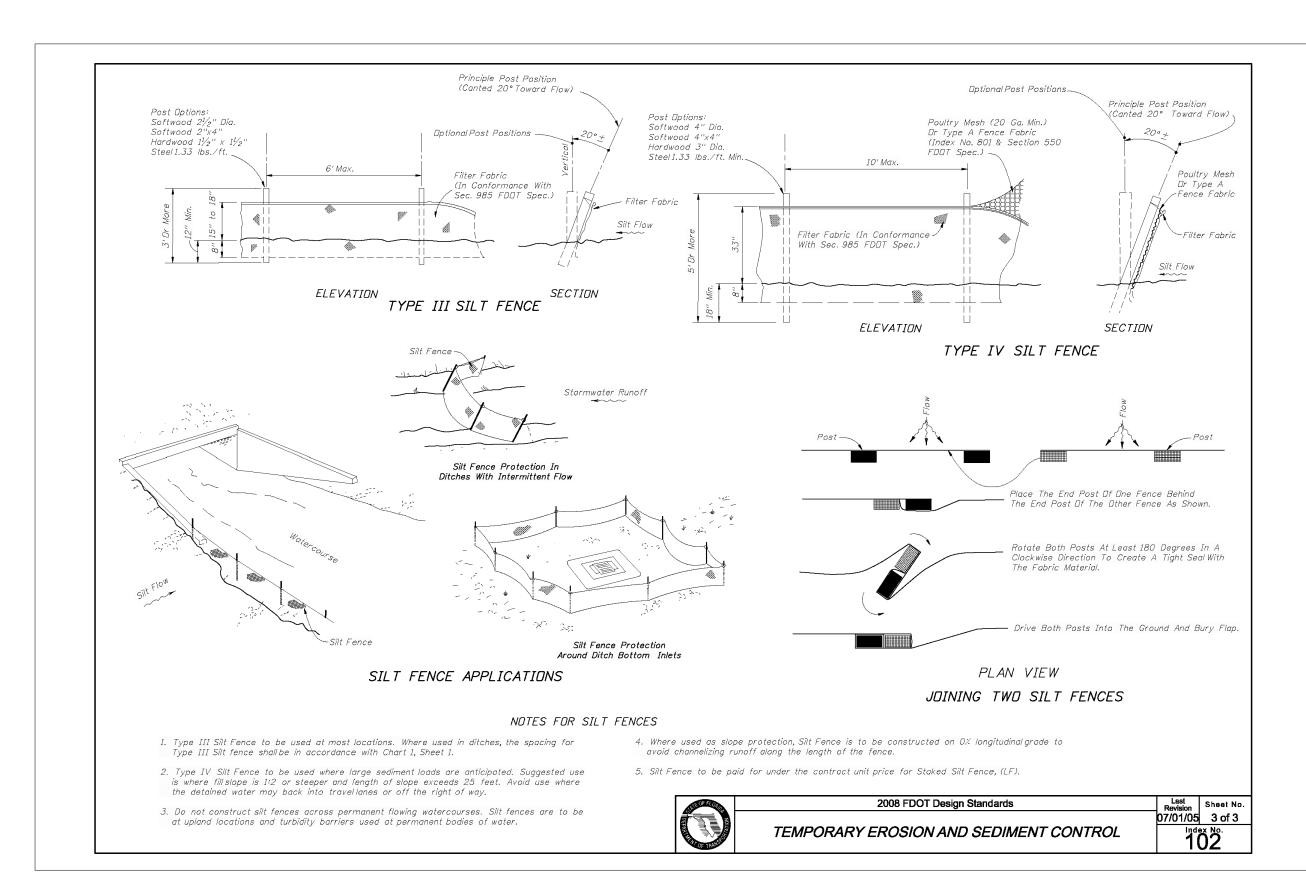
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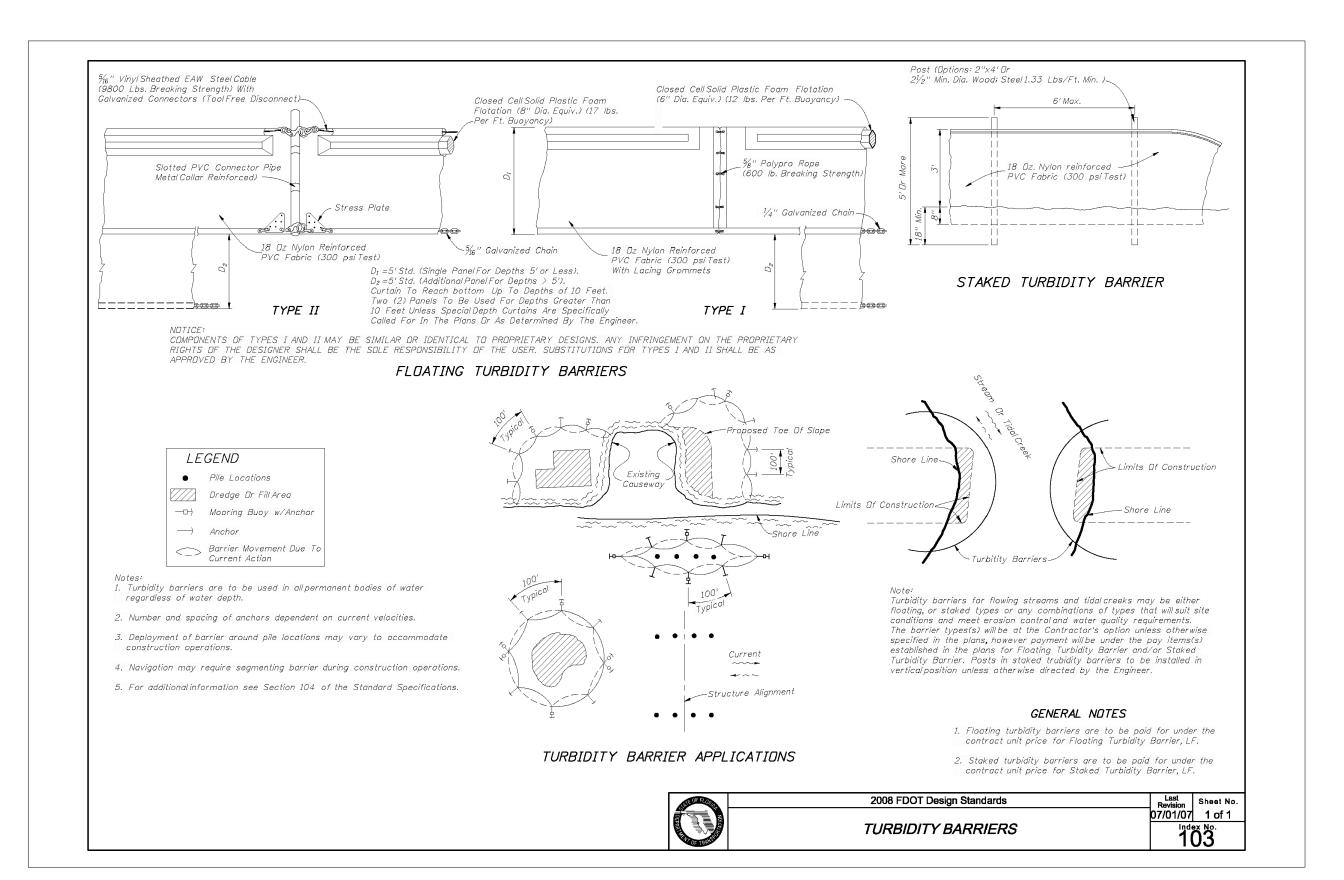
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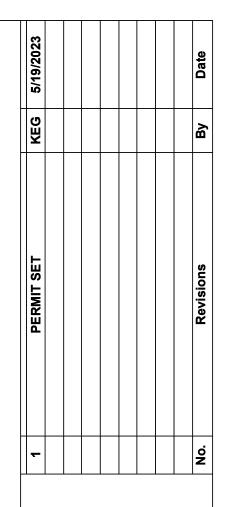
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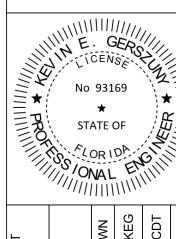






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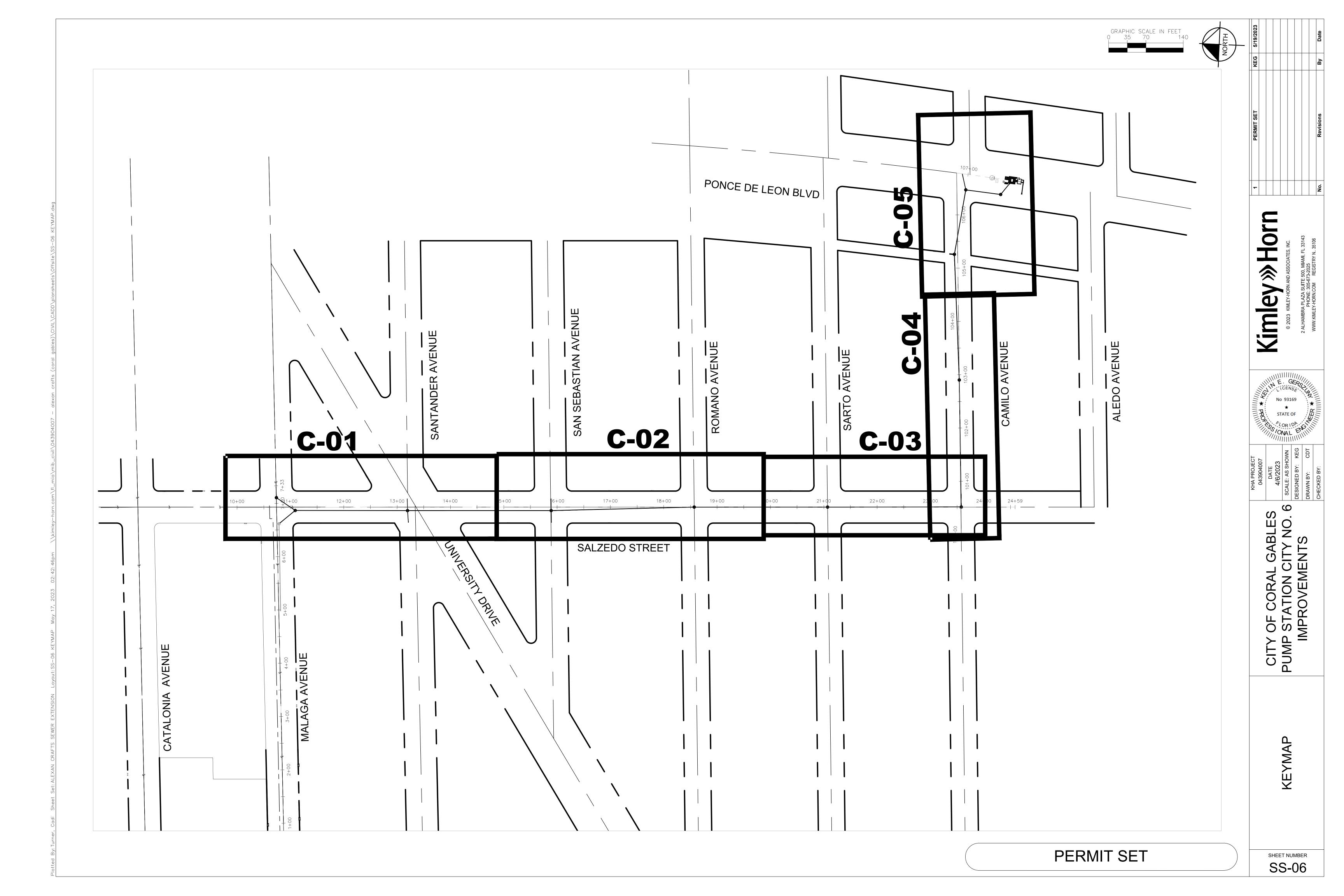
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PHONE: 305-673-2025
WWW.KIMLEY-HORN.COM REGISTRY N.. 35106

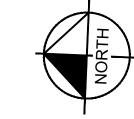


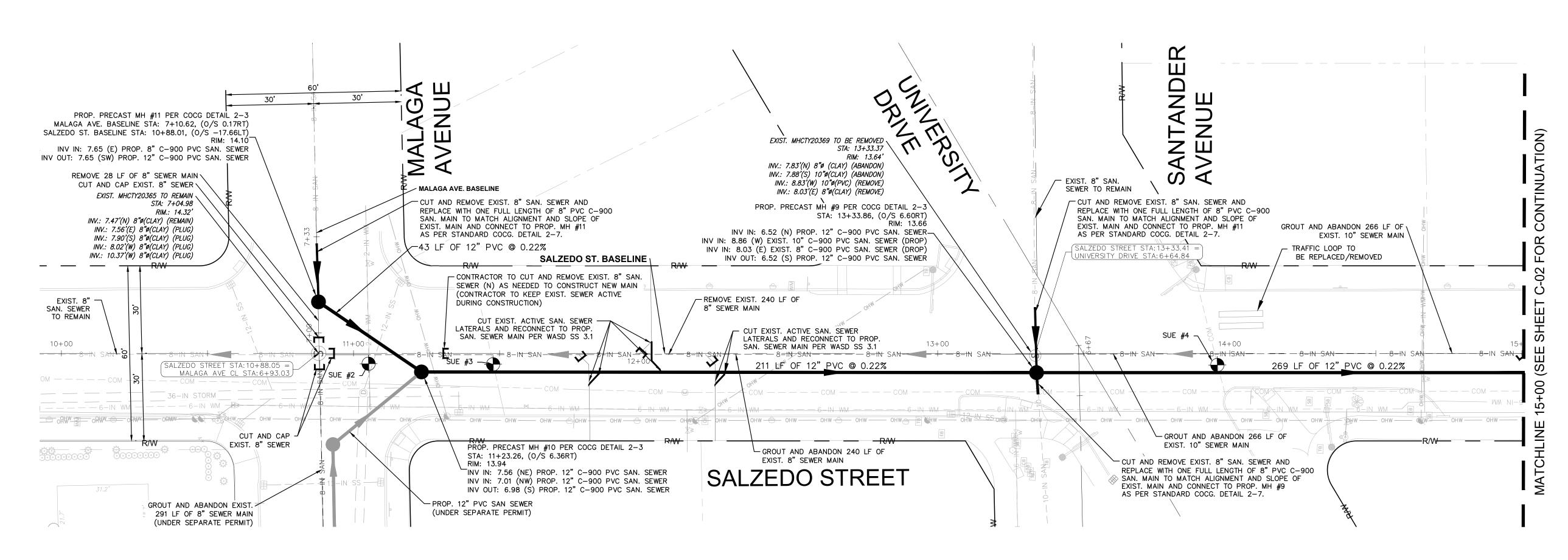
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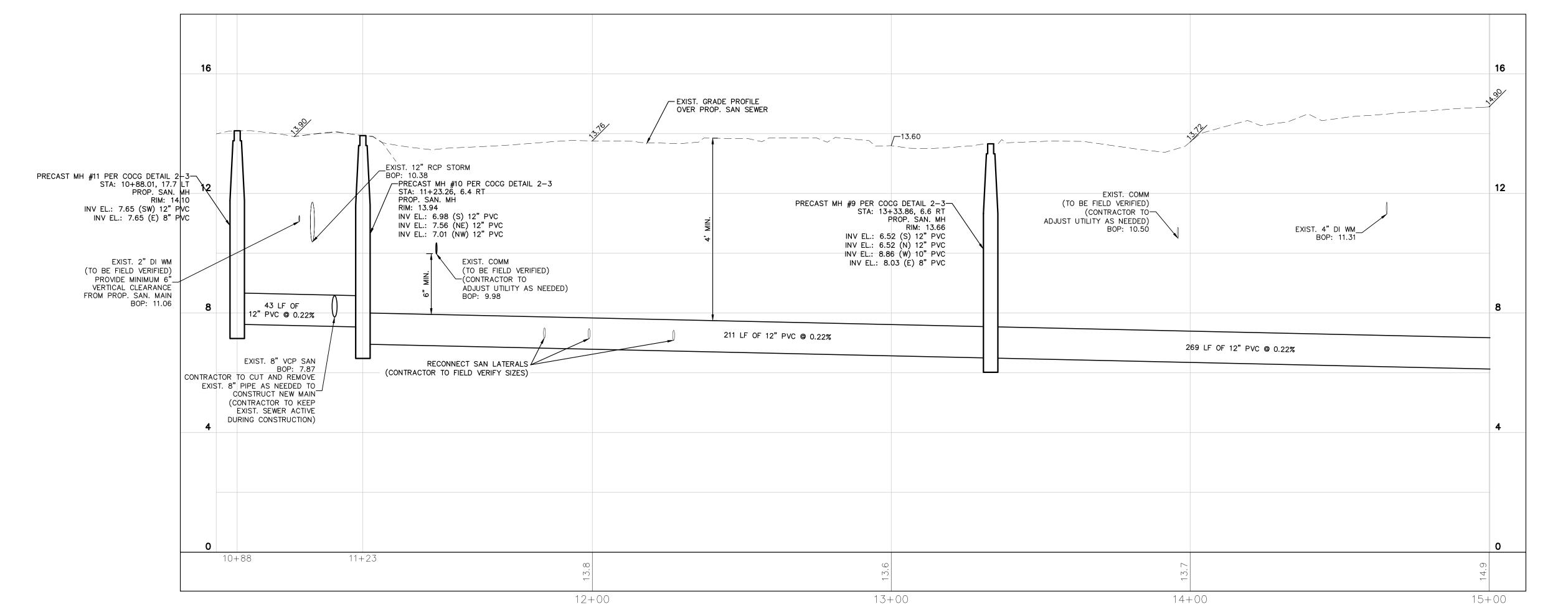
CITY OF CORAL GABLES
OUMP STATION CITY NO.
IMPROVEMENTS

EROSION CONTROL DETAILS









PROPOSED SANITARY
SEWER MAIN AND MANHOLE

EXISTING SANITARY
LATERAL

EXISTING 12" STORM SEWER

EXISTING 6' WATER MAIN

RIGHT OF WAY

CENTER LINE OF ROADWAY

— — — — 12-IN SS — EXISTING 12 STORM SEWE

— — — — 6-IN WM — EXISTING 6' WATER MAIN

— — — — COM — EXISTING COMMUNICATION LINE

— FOC — EXISTING HOTWIRE COMMUNICATION LINE

— OHW — OHW — OHW — EXISTING OVERHEAD UTILITY

EXISTING OVERHEAD UTILITY LINE

ALL EXISTING MAINS BEING IMPACTED BY THIS PROJECT AND ALL PROP. WATER & FORCE MAINS AND FITTINGS TO BE RESTRAINED PER MDWASD GS 2.0.

### SEWER NOTES:

- 1. ALL SANITARY SEWER IMPROVEMENTS SHALL ADHERE TO THE LATEST CITY OF CORAL GABLES PUBLIC WORKS STANDARDS AND SPECIFICATIONS.
- 2. CONTRACTOR SHOULD BE AWARE OF THE PRESENCE OF EXISTING SANITARY SEWER SERVICE LATERALS (SAN. LATERALS) RUNNING FROM ADJACENT PROPERTIES AND CONNECTING TO THE EXISTING SEWER MAIN. PLANS SHOW THE BEST AVAILABLE LOCATION OF KNOWN SAN. LATERALS. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL LOCATE ALL EXISTING SAN. LATERALS AND ACCOUNT FOR THE RECONNECTION OF ANY UNDOCUMENTED SAN. LATERALS DISCOVERED DURING
- 3. ALL EXISTING UTILITIES ARE TO REMAIN UNLESS SPECIFIED OTHERWISE.4. ALL EXISTING SAN. MANHOLES TO REMAIN SHALL BE
- ADJUSTED FLUSH WITH GRADE.

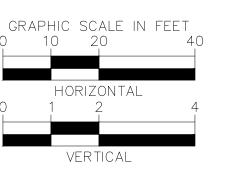
  5. CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL AREAS AFFECTED BY WORK TO A CONDITION AS GOOD AS EXISTING OR BETTER. CONTRACTOR SHALL ADHERE TO THE LATEST CITY OF CORAL GABLES PUBLIC WORKS STANDARDS AND SPECIFICATIONS.
- 6. DRAINAGE CONFLICT STRUCTURES SHALL BE PER FDOT STANDARD PLANS INDEX 425—080. ALL EXISTING INVERTS SHALL BE FIELD VERIFIED BY CONTRACTOR AND FIELD SURVEY INFORMATION PROVIDED TO THE ENGINEER PRIOR TO SHOP DRAWING SUBMITTAL AND REVIEW. SEWER PIPE SHALL HAVE NO JOINTS WITHIN CONFLICT STRUCTURE.
- 7. SANITARY SEWER SERVICE SHALL NOT BE DISRUPTED AT ANY TIME WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE CITY OF CORAL GABLES. PRIOR TO CONDUCTING AN AUTHORIZED TEMPORARY SHUT—DOWN, THE CONTRACTOR MAY BE REQUIRED TO NOTIFY ALL AFFECTED SEWER COSTUMERS AS REQUIRED BY THE CITY.
- 8. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL PREPARE AND OBTAIN WRITTEN APPROVAL FROM THE CITY OF CORAL GABLES FOR A TEMPORARY SEWAGE BY—PASS SYSTEM THAT WILL MAINTAIN UNINTERRUPTED SANITARY SERVICE DURING CONSTRUCTION. NO EXISTING SANITARY MANHOLES, MAINS, OR LATERALS SHALL BE CUT, PLUGGED OR REMOVED PRIOR TO THE APPROVED BY—PASS BEING OPERATIONAL. THE BY—PASS SYSTEM SHALL REMAIN IN SERVICE UNTIL THE PROPOSED SANITARY SEWER MAINS ARE CLEARED BY MIAMI—DADE DERM TO BE PLACED INTO SERVICE, AND ALL EXISTING MAINS AND SERVICES ARE RECONNECTED TO THE PROPOSED MAINS. BY—PASS SYSTEMS MAY INCLUDE, BUT ARE NOT LIMITED TO:

  a.RIGHT—OF—WAY (R/W) PERMITS
  - b.PORTABLE RUN-DRY PUMPS
    c.BY-PASS PIPING, FITTINGS AND VALVES
    d.TEMPORARY TRENCHING, BACKFILLING, COMPACTION
    AND PAVEMENT RESTORATION
    e.MAINTENANCE OF TRAFFIC
- 9. CONTRACTOR SHALL FIELD—VERIFY THE LOCATIONS, INVERTS, DIAMETERS, MATERIALS, AND OPERATIONAL STATUS (ACTIVE/INACTIVE) OF ALL EXISTING SERVICE LATERALS THAT ARE TO BE RE—CONNECTED TO
- PROPOSED SANITARY SEWER MAINS.

  10. EXISTING LATERALS THAT ARE TO BE RECONNECTED TO THE PROPOSED MAIN SHALL BE CUT AS REQUIRED TO REPLACE 20 LF OF EXISTING SANITARY LATERAL WITH ONE FULL LENGTH OF PVC C-900 PIPE INCLUDING FITTINGS. PROPOSED SANITARY LATERALS TO MATCH PIPE DIAMETER, ALIGNMENT AND SLOPE OF EXISTING SANITARY LATERALS. CONNECT PROPOSED SANITARY LATERALS TO EXISTING SANITARY LATERALS WITH PVC FITTINGS AND
- COUPLINGS, AS NEEDED.

  11. ALL EXISTING INACTIVE SANITARY LATERALS FRONTING
  THE SUBJECT PROPERTY SHALL BE CUT AT THE MAIN,
  CAPPED AND ABANDONED IN PLACE, OR REMOVED IF IN
  CONFLICT WITH PROPOSED IMPROVEMENTS.
- 12. FOR INTER—CONNECTIONS WITH EXISTING VCP SANITARY SEWERS, THE CONTRACTOR SHALL PERFORM A VIDEO INSPECTION OF THE VCP PIPE BEFORE AND AFTER INSTALLATION AND PROVIDE COPIES OF THE VIDEO TO THE CITY OF CORAL GABLES AND THE ENGINEER OF RECORD.
- 13. THE RIM ELEVATIONS OF ALL EXISTING MANHOLES AND CLEAN—OUTS TO REMAIN SHALL BE ADJUSTED MATCH PROPOSED GRADE ELEVATIONS AS PER CITY OF CORAL GABLES STANDARD DETAILS.
- GABLES STANDARD DETAILS.

  14. PRIOR TO INSTALLATION OF PROPOSED SANITARY SEWER, EXISTING UTILITIES THAT ARE IN CONFLICT SHALL BE ADJUSTED/RELOCATED TO MAINTAIN 3-FOOT MINIMUM EDGE-TO-EDGE HORIZONTAL SEPARATION AND 6-INCH MINIMUM VERTICAL CLEARANCE.

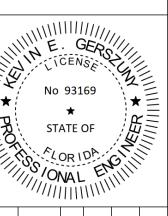


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HORN AND ASSOCIATES, INC.

A SUITE 500, MIAMI, FL 33143
E: 305-673-2025
N.COM REGISTRY N.. 35106

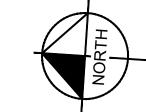


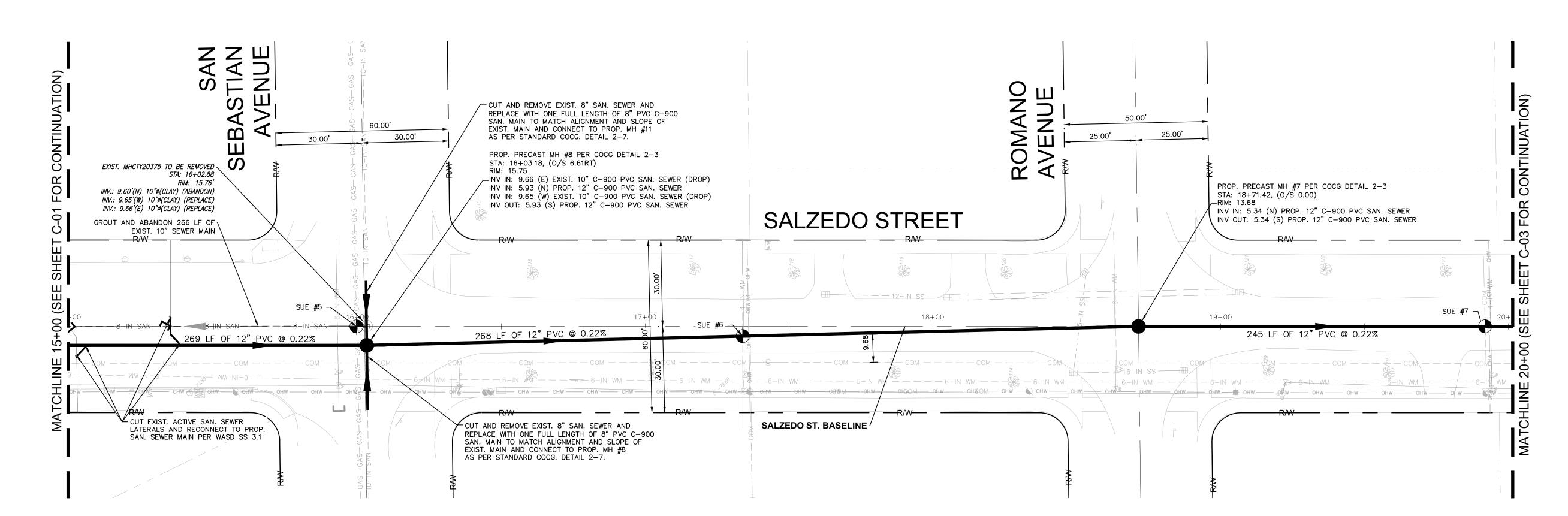
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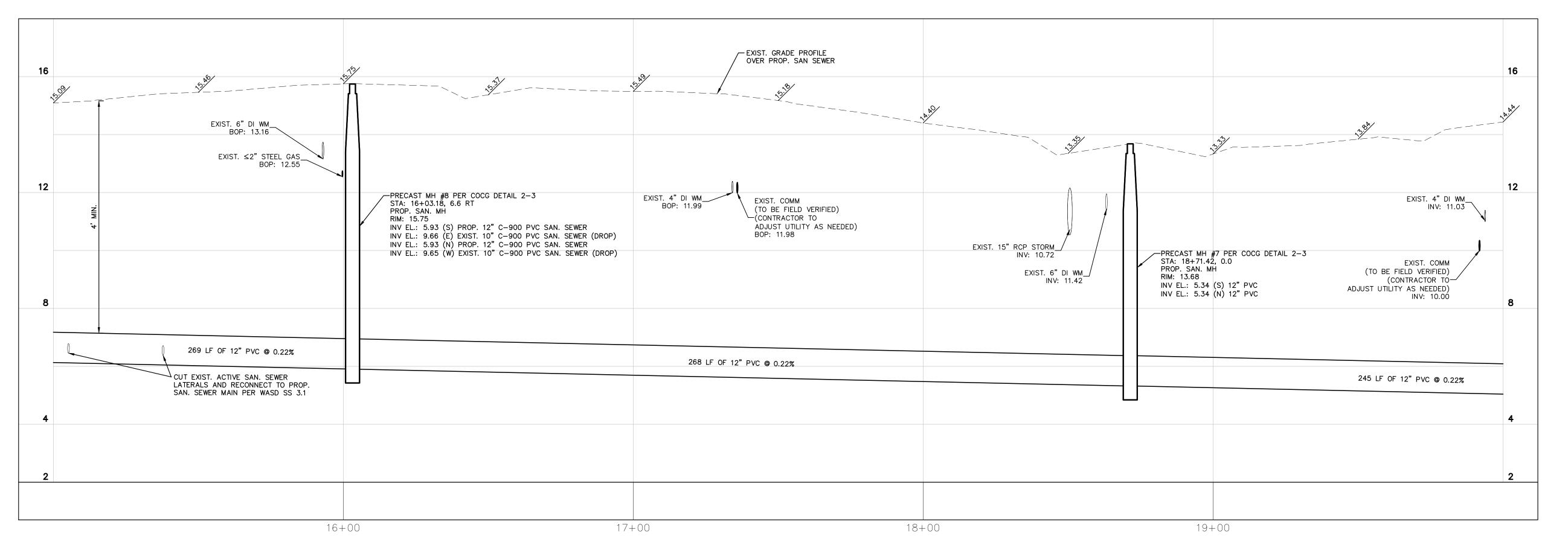
Y OF CORAL GABLES
IP STATION CITY NO.
IMPROVEMENTS

CITY

SANITARY SEWER PLANSHEET







PROPOSED SANITARY SEWER MAIN AND MANHOLE EXISTING SANITARY LATERAL EXISTING 12" STORM SEWER \_\_\_\_ \_ \_ \_ \_ 6-IN WM \_\_\_ EXISTING 6' WATER MAIN

RIGHT OF WAY CENTER LINE OF ROADWAY

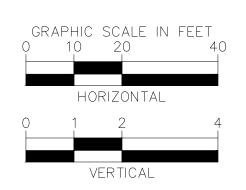
EXISTING COMMUNICATION EXISTING HOTWIRE COMMUNICATION LINE

— FOC — — — OHW — OHW — OHW — EXISTING OVERHEAD UTILITY

ALL EXISTING MAINS BEING IMPACTED B' THIS PROJECT AND ALL PROP. WATER 8 FORCE MAINS AND FITTINGS TO BE RESTRAINED PER MDWASD GS 2.0.

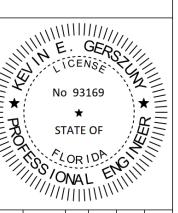
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- 8. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL PREPARE AND OBTAIN WRITTEN APPROVAL FROM THE CITY OF CORAL GABLES FOR A TEMPORARY SEWAGE BY-PASS SYSTEM THAT WILL MAINTAIN UNINTERRUPTED SANITARY SERVICE DURING CONSTRUCTION, NO EXISTING SANITARY MANHOLES, MAINS, OR LATERALS SHALL BE CUT, PLUGGED OR REMOVED PRIOR TO THE APPROVED BY-PASS BEING OPERATIONAL. THE BY-PASS SYSTEM SHALL REMAIN IN SERVICE UNTIL THE PROPOSED SANITARY SEWER MAINS ARE CLEARED BY MIAMI-DADE DERM TO BE PLACED INTO SERVICE, AND ALL EXISTING MAINS AND SERVICES ARE RECONNECTED TO THE PROPOSED MAINS. BY-PASS SYSTEMS MAY INCLUDE, BUT ARE NOT LIMITED TO: a.RIGHT-OF-WAY (R/W) PERMITS
  - b.PORTABLE RUN-DRY PUMPS c.BY-PASS PIPING, FITTINGS AND VALVES d. TEMPORARY TRENCHING, BACKFILLING, COMPACTION AND PAVEMENT RESTORATION e.MAINTENANCE OF TRAFFIC
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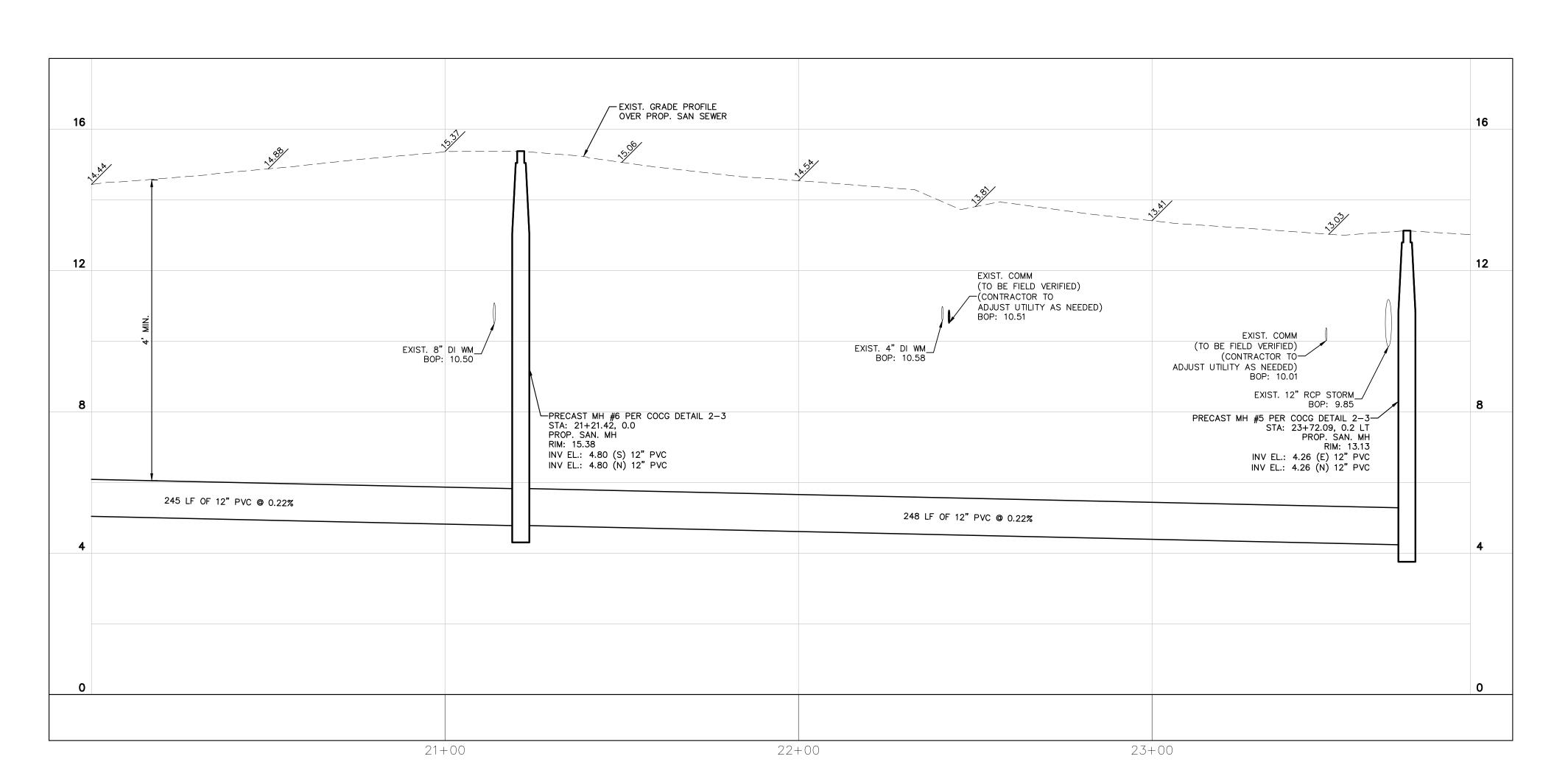
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SANITARY SEWE PLANSHEET





\_\_\_\_ \_ \_ \_ \_ 6-IN WM \_\_\_ EXISTING 6' WATER MAIN

EXISTING COMMUNICATION \_\_\_\_\_ \_ \_ \_ \_ COM \_\_\_\_ EXISTING HOTWIRE

LATERAL

COMMUNICATION LINE — OHW — OHW — OHW — EXISTING OVERHEAD UTILITY

RIGHT OF WAY CENTER LINE OF ROADWAY

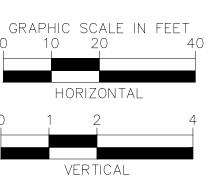
PROPOSED SANITARY

EXISTING SANITARY

ALL EXISTING MAINS BEING IMPACTED B' THIS PROJECT AND ALL PROP. WATER & FORCE MAINS AND FITTINGS TO BE RESTRAINED PER MDWASD GS 2.0.

### SEWER NOTES:

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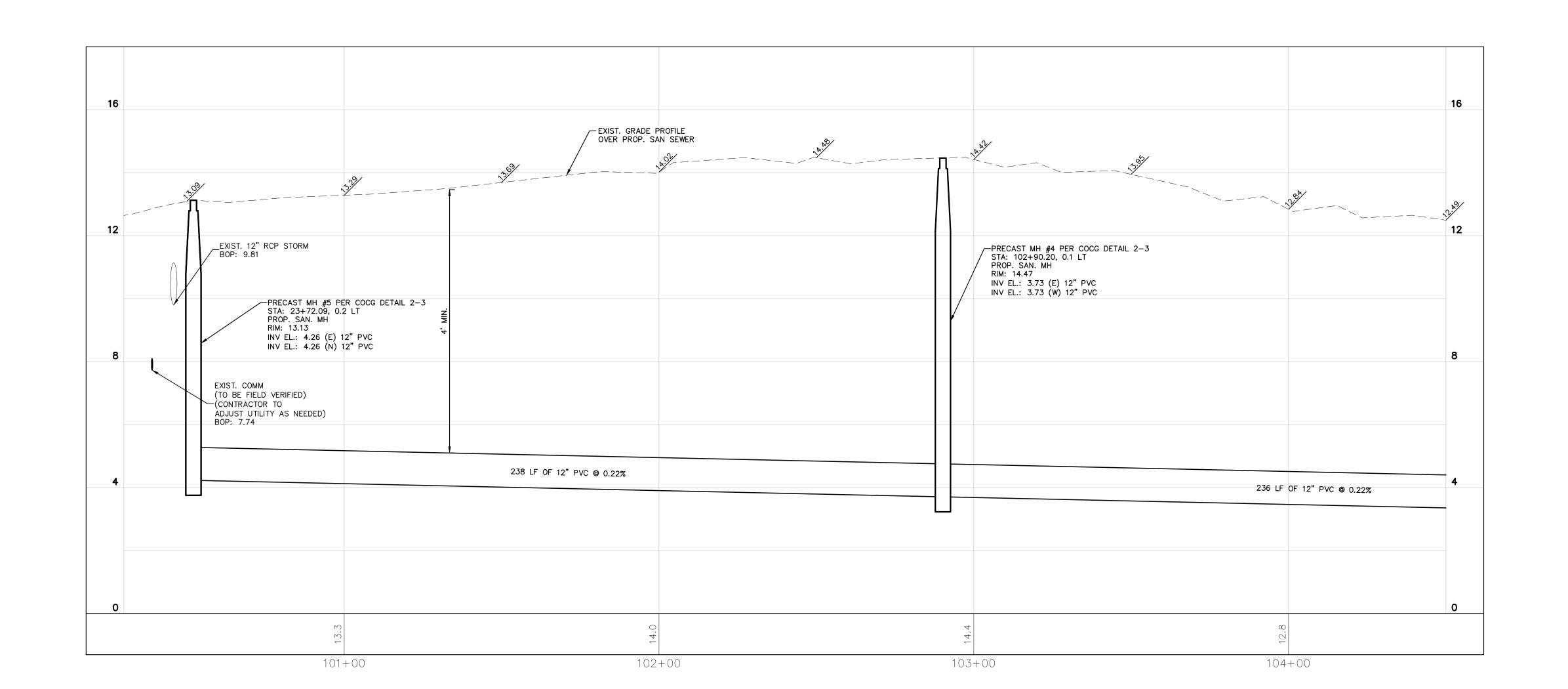
SEWER MAIN AND MANHOLE EXISTING 12" STORM SEWER

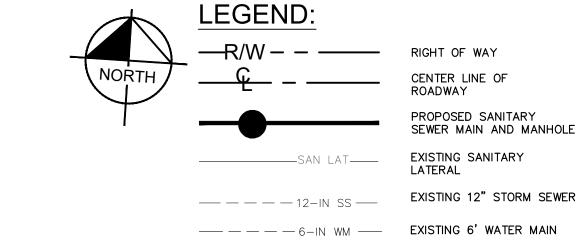
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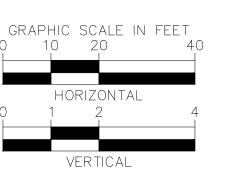
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EXISTING COMMUNICATION

EXISTING HOTWIRE COMMUNICATION LINE

### **SEWER NOTES:**

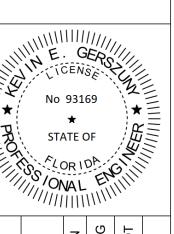
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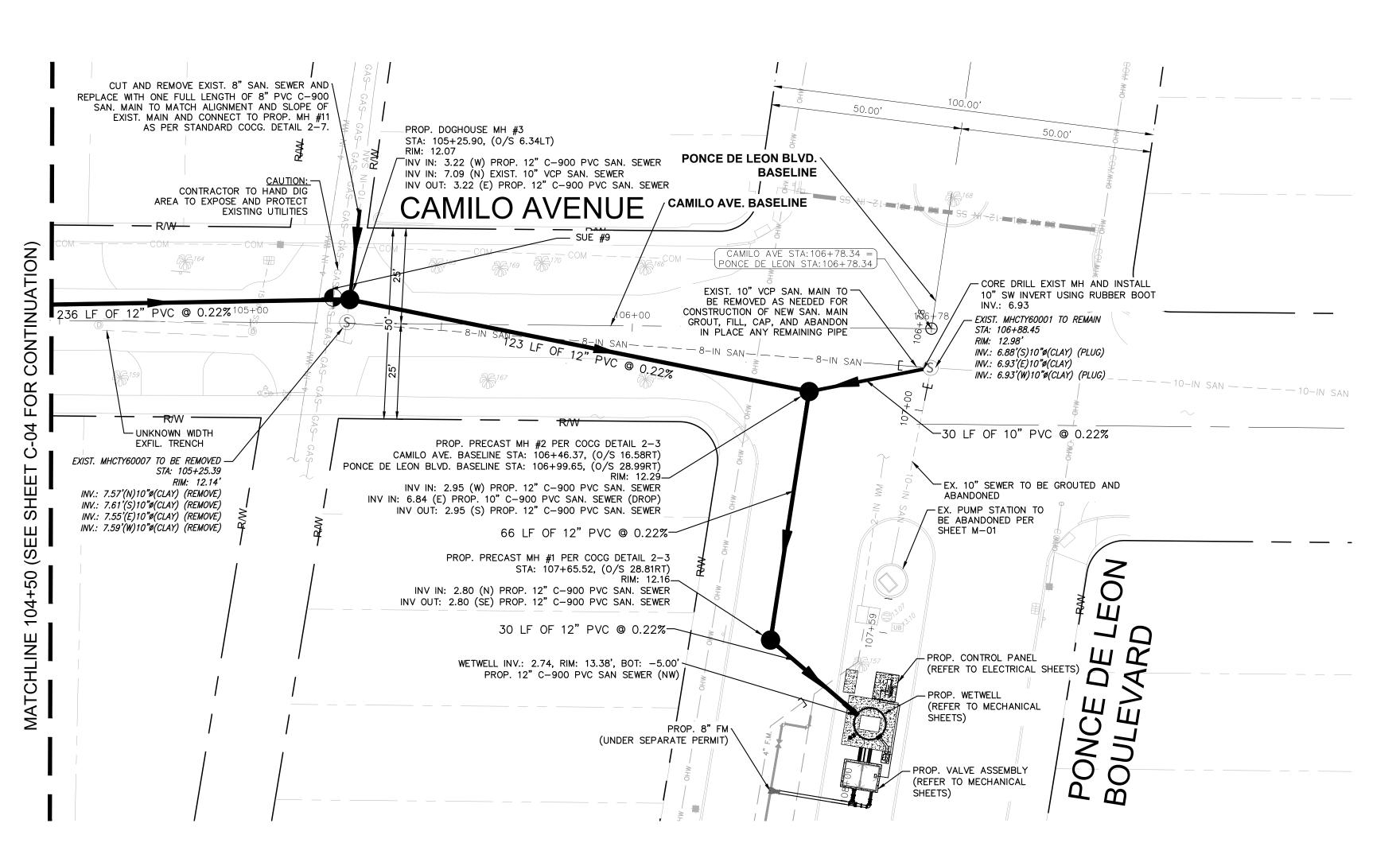
— OHW — OHW — OHW — EXISTING OVERHEAD UTILITY

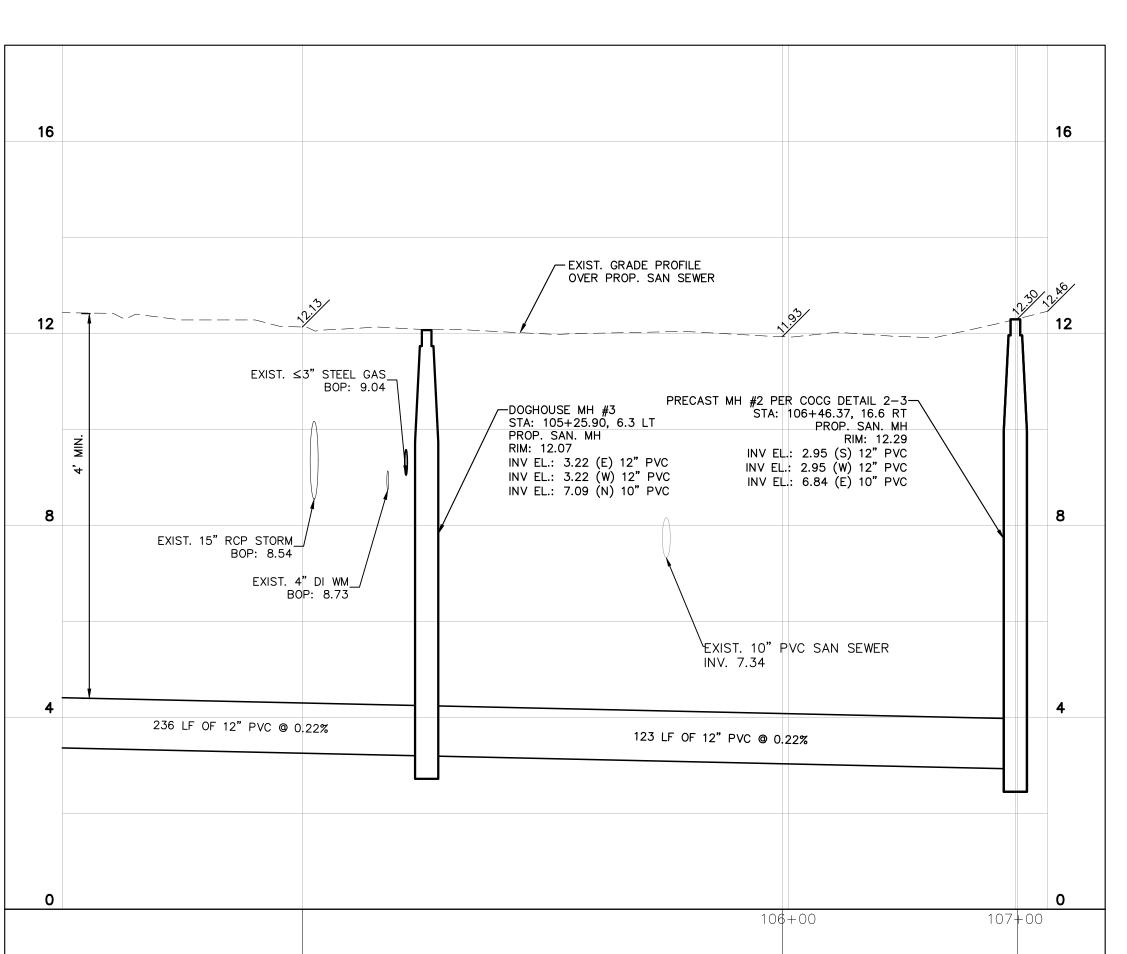
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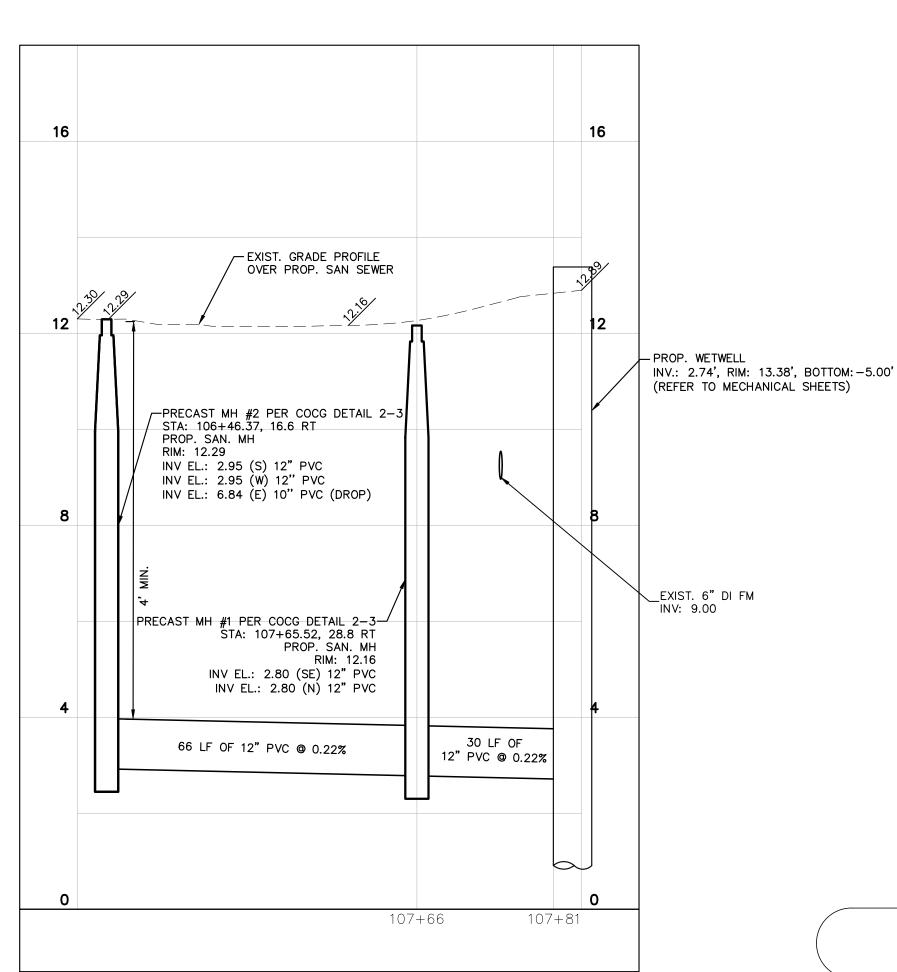


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SANITARY SEWE PLANSHEET







RIGHT OF WAY CENTER LINE OF ROADWAY PROPOSED SANITARY SEWER MAIN AND MANHOLE — — — — 12-IN SS —

EXISTING SANITARY LATERAL EXISTING 12" STORM SEWER 

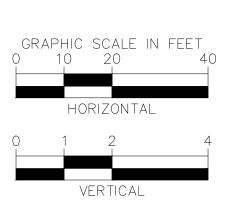
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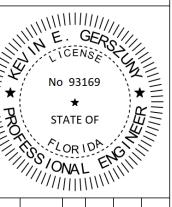
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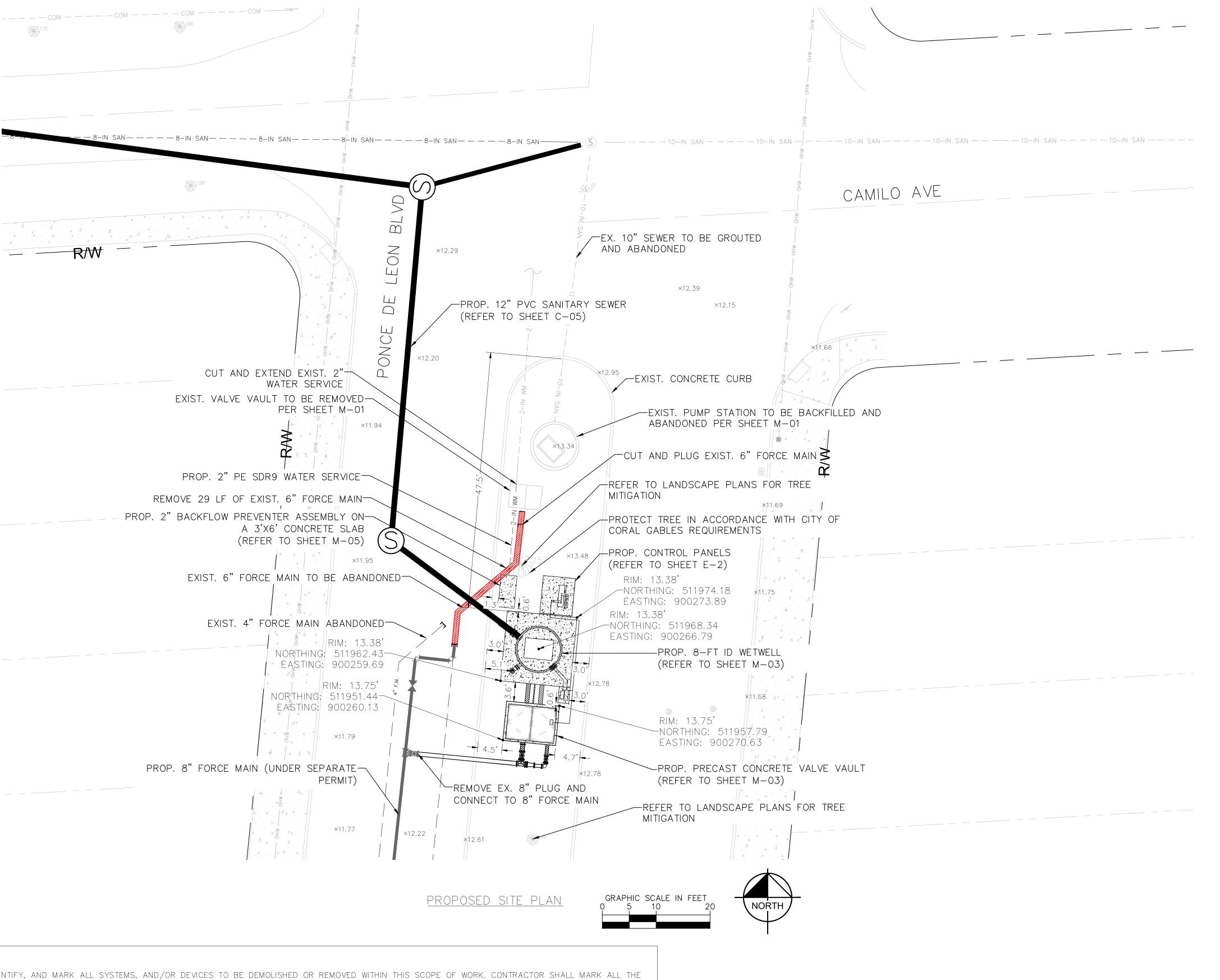
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CITY

SANITARY SEWE PLANSHEET

SHEET NUMBER

C-05



### DEMOLITION NOTES:

- . CONTRACTOR SHALL CONDUCT SITE VISIT, IDENTIFY, AND MARK ALL SYSTEMS, AND/OR DEVICES TO BE DEMOLISHED OR REMOVED WITHIN THIS SCOPE OF WORK. CONTRACTOR SHALL MARK ALL THE EXISTING DEVICES AND/OR SYSTEMS THAT REMAIN AND TO BE REUSED. CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES.
- 2. CONTRACTOR SHALL PROTECT ALL EXISTING SYSTEMS TO REMAIN AGAINST PHYSICAL DAMAGE DURING THE DEMOLITION, AND ENSURE THE EXISTING UTILITIES/STRUCTURES REMAIN IN THE CONDITION PRIOR TO DEMOLITION WORK.
- 3. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER DISPOSAL OF THE CONSTRUCTION DEBRIS FROM SYSTEMS TO BE REMOVED INCLUDING MASONRY, EXISTING SUPPORTIVE ELEMENTS SUCH AS POST, PIPE SUPPORT, CONDUIT AND WIRES ETC.
- 4. CONTRACTOR SHALL SETUP STAGE AREA AND SECURE THE AREA FOR BOTH DEMOLITION AND NEW WORK. THE STAGING AREA IS THE RESPONSIBILITY OF THE CONTRACTOR. THE STAGING AREA SHOULD BE MAINTAINED, CLEANED AND SAFE TO WORKERS, MOTORISTS AND THE COMMUNITY.
- 5. CONTRACTOR SHALL PERFORM ALL WORK WITHIN LEGAL PROPERTY AND EASEMENT, AND SHALL NOT DISTURB ADJACENT PROPERTY.
- 6. FIELD VERIFY ALL UTILITY ELEVATIONS PRIOR TO COMMENCING THE WORK.
- 7. CONTRACTOR SHALL VERIFY EXISTING ITEMS TO REMAIN BEFORE ORDERING PROPOSED PIPING/FITTINGS CONNECTING TO IT.
- 8. CONTRACTOR SHALL VERIFY EXISTING UNDERGROUND UTILITIES IN APPLICATIONS, ELEVATIONS, AND QUALITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL VERIFY EXISTING PIPING TO REMAIN BEFORE ORDERING NEW PIPE AND FITTINGS FOR CONNECTIONS., THE CONTRACTOR SHALL INSPECT AND VERIFY ALL SITE CONDITIONS, DIMENSIONS, ELEVATIONS ETC., AND COORDINATE WITH OTHER TRADES PRIOR TO CONSTRUCTION.
- ). CONTRACTOR SHALL MAINTAIN ACCESS TO FACILITY AT ALL TIMES AND SHALL NOT DISRUPT FACILITY OPERATION THROUGHOUT CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH CLIENT'S PROJECT MANAGER TO ENSURE SITE AND PROTECTION OF LIFE IS ENSURED DURING CONSTRUCTION.

### GENERAL VALVE VAULT AND WETWELL REMOVE / INSTALL NOTES:

- 1. REMOVE EXISTING PUMP, PIPING, FITTINGS AND CHECK VALVES WITHIN VALVE VAULT AND WET WELL.
- 2. REMOVE EQUIPMENT (PUMP, BASES, VALVES, FITTINGS AND HATCHES) SHALL BE RETURNED TO THE OWNER.
- 3. INSTALLATION OF PROPOSED WET WELL WITH TWO (2) NEW SUBMERSIBLE PUMPS WITH ASSOCIATED PIPING AND HARDWARE.
- 4. INSTALLATION OF PROPOSED VALVE VAULT WITH NEW PIPING AND VALVES.
- 5. RESTORE SOD AND CURB AS NEEDED.

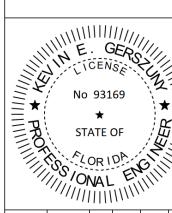
### LEGEND

— OHW — OHW — OHW — EXIST. OVERHEAD UTIL. EXIST. 2" WM EXIST. CONCRETE PROP. CONCRETE

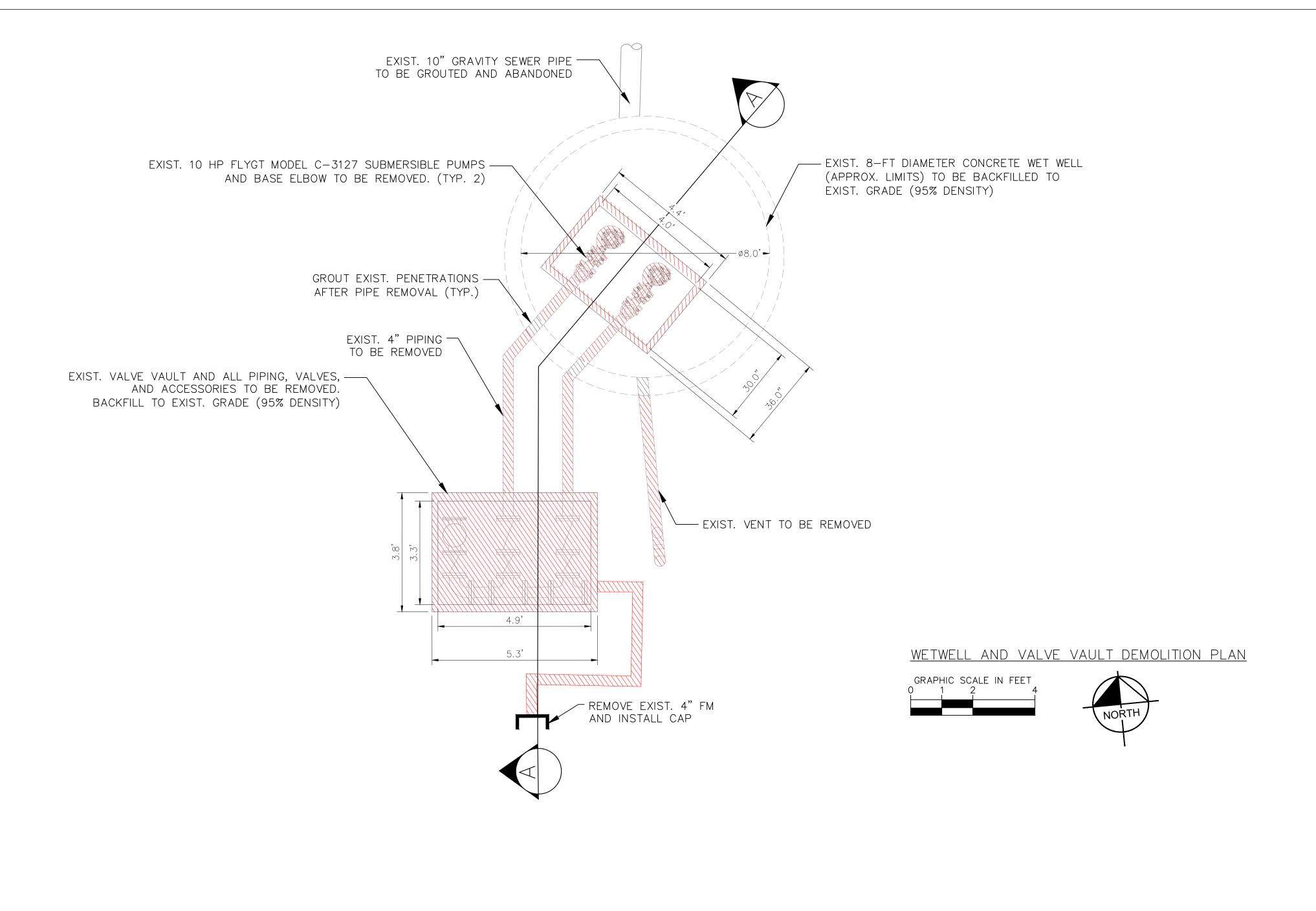
PROP. 12" SAN.

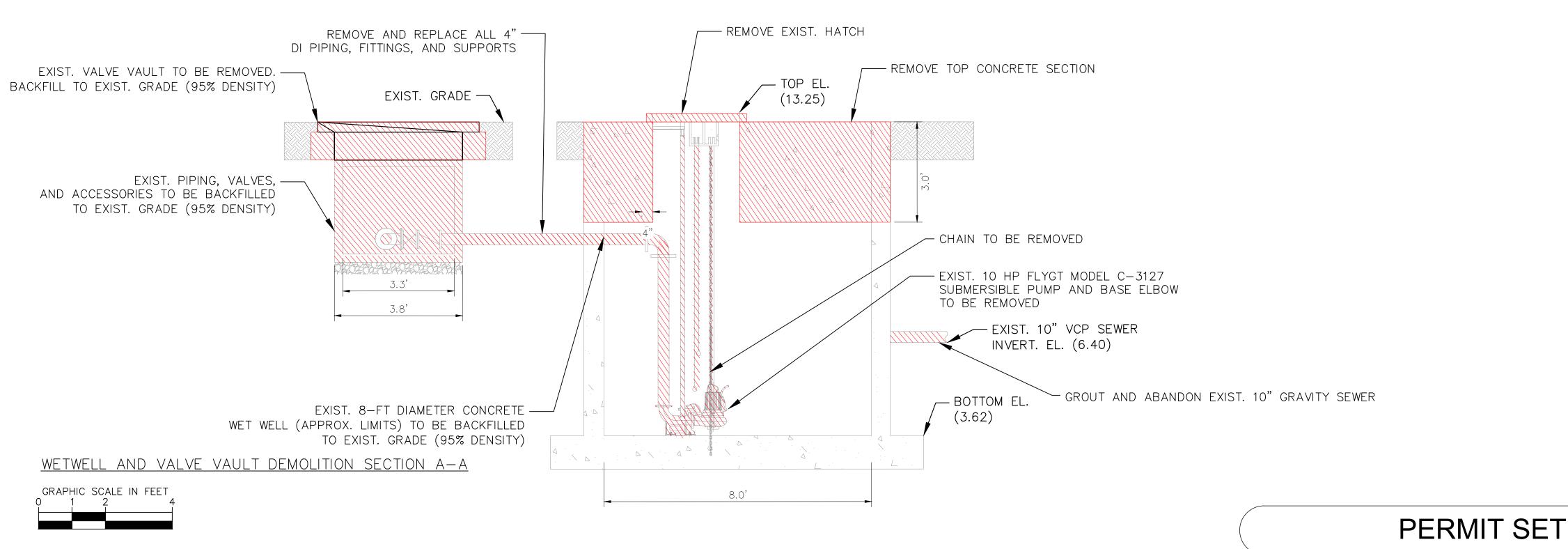
EXIST. 10" SAN.

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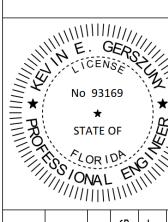


STATION PLAN





Horn Kimley»



CITY OF CORAL GABLES
PUMP STATION CITY NO. 6
IMPROVEMENTS

DEMOLITION PLAN AND SECTION VIEW

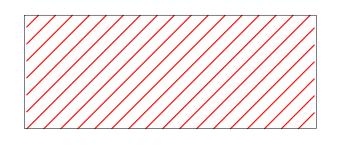
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EXISTING 4" VALVE VAULT ASSEMBLY

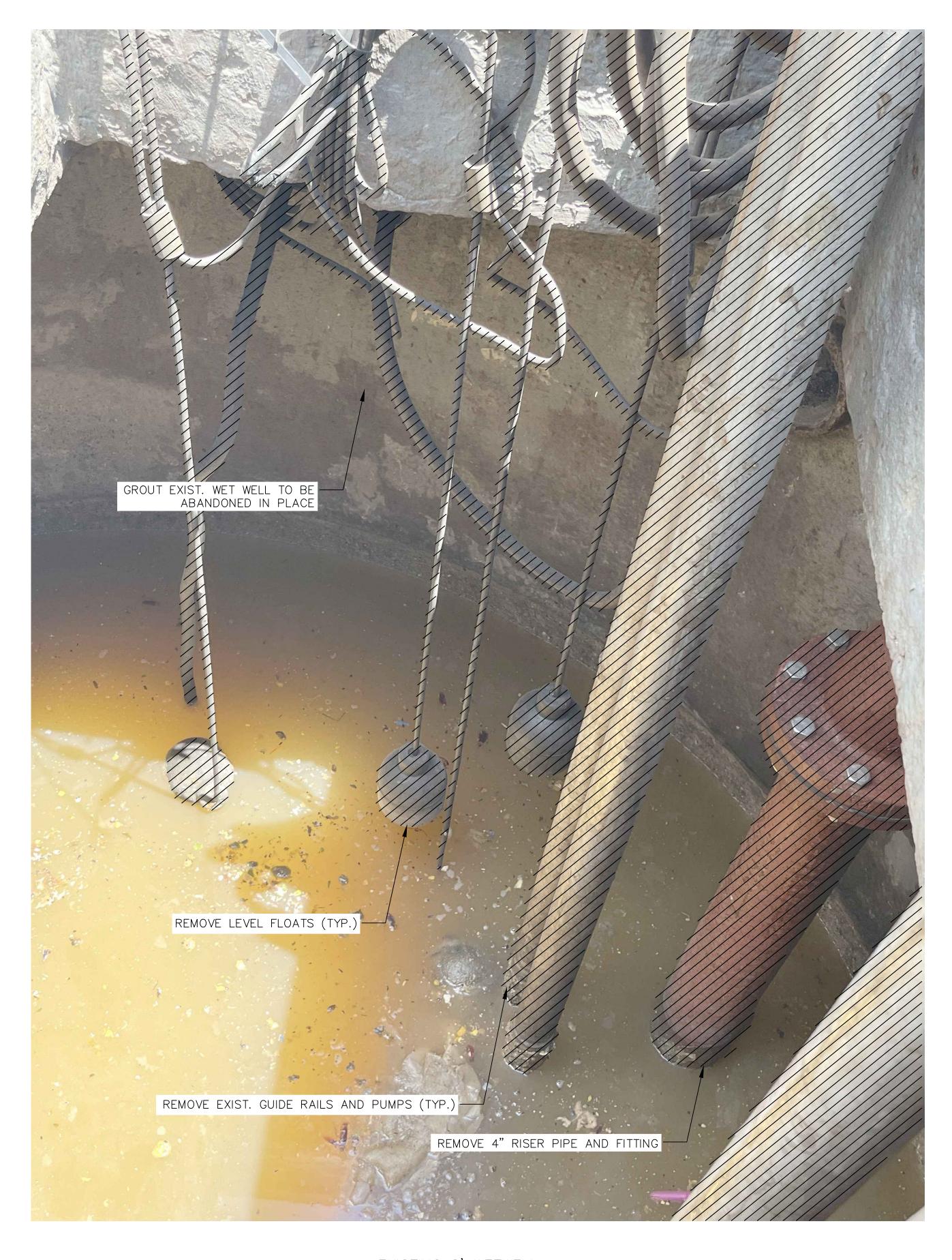
### GENERAL NOTES:

1. CONTRACTOR SHALL MAINTAIN WASTEWATER FLOWS IN OPERATION VIA BY-PASS PUMP OPERATION AT ALL TIMES DURING CONSTRCUTION. CONTRACTOR SHALL PROVIDE A BYPASS PUMPING PLAN TO ENGINEER FOR REVIEW PRIOR TO INITIATING CONSTRUCTION.

### <u>LEGEND</u>



EQUIPMENT TO BE REMOVED



EXISTING 8' WETWELL

PERMIT SET

1 PERMIT SET KEG 5/19/2023

© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
2 ALHAMBRA PLAZA SUITE 500, MIAMI, FL 33143
PHONE: 305-873-2075



DATE
4/20/2023
SCALE: AS SHOWN
DESIGNED BY: KEG

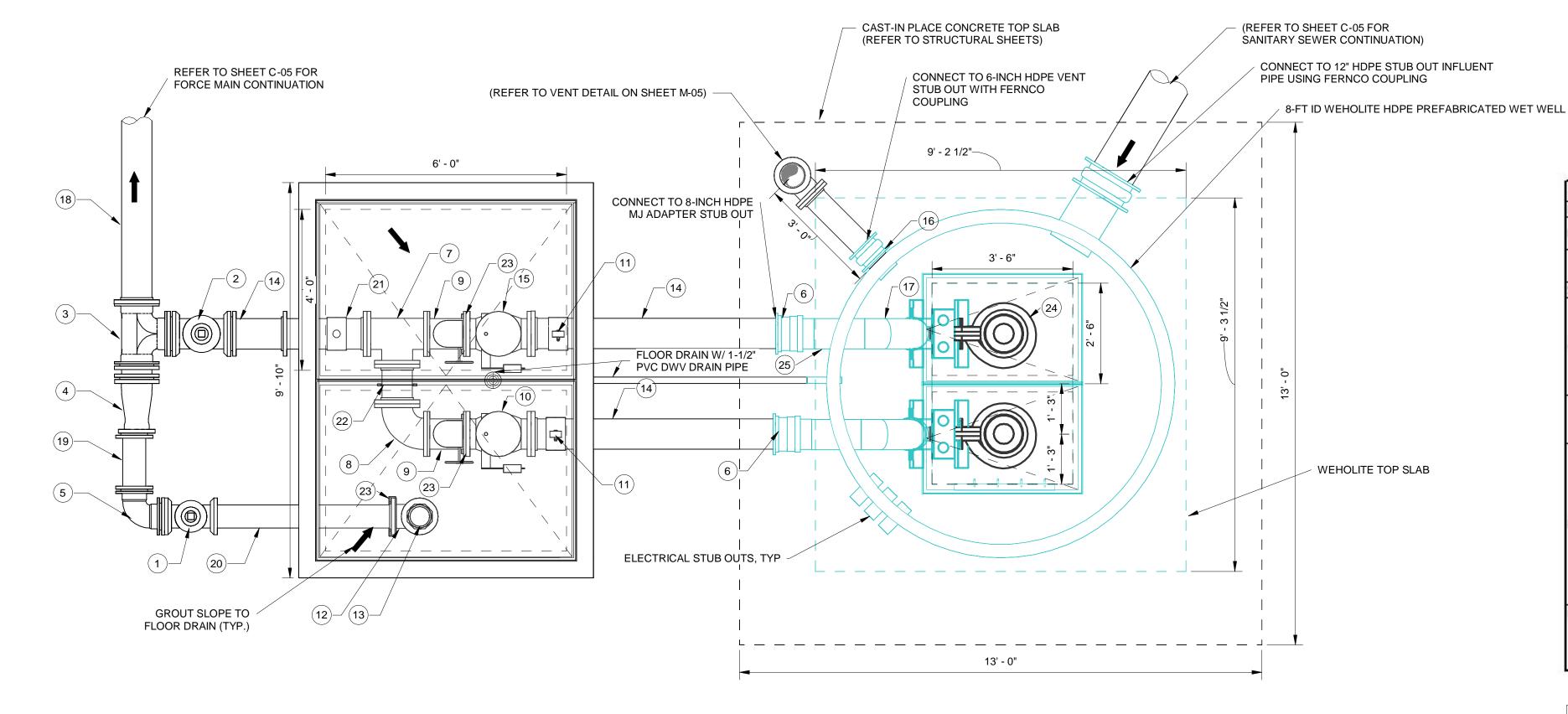
F CORAL GABLES
TATION CITY NO. 6
PROVEMENTS

PUMP STATION DEMOLITION DETAILS

M-02



COLOR SHADING IDENTIFIES EQUIPMENT SUPPLIED BY WEHOLITE PREFABRICATED WETWELL MANUFACTURER



MECHANICAL TOP PLAN VIEW
M03 1/2" = 1'-0"

### MECHANICAL NOTES:

1. CONTRACTOR SHALL VERIFY EXISTING UNDERGROUND UTILITIES IN APPLICATIONS, ELEVATIONS, AND QUALITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL VERIFY EXISTING PIPING TO REMAIN BEFORE ORDERING NEW PIPE AND FITTINGS FOR CONNECTIONS. THE CONTRACTOR SHALL INSPECT AND VERIFY ALL SITE CONDITIONS, DIMENSIONS, ELEVATIONS ETC. AND COORDINATE WITH OTHER TRADES PRIOR TO CONSTRUCTION. WORK SHALL BE SCHEDULED ACCORDING TO SPECIFIED CONSTRUCTION SEQUENCE.

2. PAY ATTENTION TO AVOID DISTURBING EXISTING ELECTRICAL SERVICE IN THE AREA UNDER CONSTRUCTION (FOR EXISTING FACILITIES ONLY).

3. ALL PIPINGS, UNLESS SPECIFIED, TO USE DUCTILE IRON WITH LINING OF SEWER APPLICATION. FITTINGS AND CONNECTIONS UNDERGROUND TO USE MECHANICAL JOINT WITH RESTRAINTS; FITTINGS ABOVE GROUND OR IN VAULT TO USE FLANGE JOINT.

4. PROTECT ALL UNDERGROUND FITTINGS WITH BOLT CONNECTIONS IN DIRECT CONTACT WITH SOIL WITH TWO COATS OF BITUMASTIC MATERIAL OR APPROVED EQUAL. PROVIDE DIELECTRIC FITTINGS BETWEEN TWO DIFFERENT PIPING MATERIALS.

5. PIPE SUPPORTS SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.

6. PROVIDE SPARK-PROOF CONTACT BETWEEN PUMPS AND GUIDE RAIL SYSTEM.

7. ALL PUMP CONTROLS SHALL BE SET AS PER DESIGN REQUIREMENTS.

8. INSTALL NEW PRESSURE TRANSDUCER.

### FLOODPLAIN NOTES:

1. PUMP STATION CITY 6 IS LOCATED WITHIN ZONE X AS DEFINED BY FEMA FIRM RATE MAP NUMBER 12086C0457L PUMP DATA: PS City 6 RAW SEWAGE 3400 PONCE DE LEON BLVD., CORAL INSTALLATION LOCATION GABLES (CORAL GABLES ATLAS K-16 PUMP TYPE SUBMERSIBLE PUMP SHUT OFF HEAD, FT 99 MAXIMUM TDH, FT 60.4 CAPACITY, GPM 580 MINIMUM TDH, FT 43.8 CONTINUOUS OPERATING RANGE CAPACITY, GPM 790 NPSHR, FT PUMP EFFICIENCY, % 63 IMPELLER HARD-IRON SUCTION, INCHES PUMP CONSTRUCTION 6 DISCHARGE, INCHES RATED HP 20 1755 VOLTS/PHASE/Hz/S.F. 200/3/60/4 AMBIENT TEMP. FOR MOTOR 40 RATING, °C ELECTRIC MOTOR MAXIMUM TEMP. RISE, °C NEMA DESIGN CODE LETTER INSULATION CLASS MOTOR RATED HP NOT OVERLOADED AT ANY POINT IN THE OPERATING RANGE FLYGT NP 3153 HT 3 ~464 IMPELLER 253 (150mm); WITH MANUFACTURERS EXPLOSION PROOF MOTOR (COMPLIANT WITH THE NEC CLASS 1, DIVISION 1 GROUP D). THE SELECTED PUMPS ARE IN-TECHNOLOGY WITH SELF-CLEANING NON-CLOG IMPELLERS CAPABLE OF HANDLENG RAGS AND WIPES

	SHEET KEYNOTE LEGEND
KEYNOTE	DESCRIPTION
1	6" PLUG VALVE, MJ
2	8" PLUG VALVE, MJ
3	8" DI TEE, MJ
4	8"X6" DI REDUCER, MJ
5	8" DI 90 DEG BEND, MJ
3	8" HDPE MJ ADAPTER
7	8" DI TEE, FL
3	8" DI 90 DEG BEND, FL
9	8" PLUG VALVE, FL
10	4" SWING CHECK VALVE, FL
11	1/2" PRESSURE GAUGE ASSEMBLY (REFER TO DETAIL ON SHEET M-05)
12	6" DI 90 DEG BEND, FL
13	4" 304 SS CAMLOCK W/ DUST CAP
14	8" DI PIPE, FL X PE
15	8" SWING CHECK VALVE, FL
16	6" FERNCO COUPLING
17	8" HDPE DIPS FABRICATED DEG 90 BEND
18	8" PVC C900 DR 18 PIPE
19	6" PVC C900 DR 18 PIPE
20	6" DI PIPE, FL X PE
21	8" 304 SS STRAP ON SADDLE W/ PRESSURE TRANSMITTER
22	STANCHION SADDLE PIPE SUPPORT
23	STANCHION FLANGE PIPE SUPPORT
24	FLYGT FP 3153 HT 3-464 SUBMERSIBLE PUMP
25	8" HDPE DR 11(DIPS) PIPE

PERMIT SET

SSOCIATES, INC.
0, MIAMI, FL 33143
-2025
FEGSTEV M. 35106

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2 ALHAMBRA PLAZA SUITE 500, MIAMI, FL 33143
PHONE: 305-673-2025
WWW.KIMLEY-HORN.COM REGISTRY N.. 35106

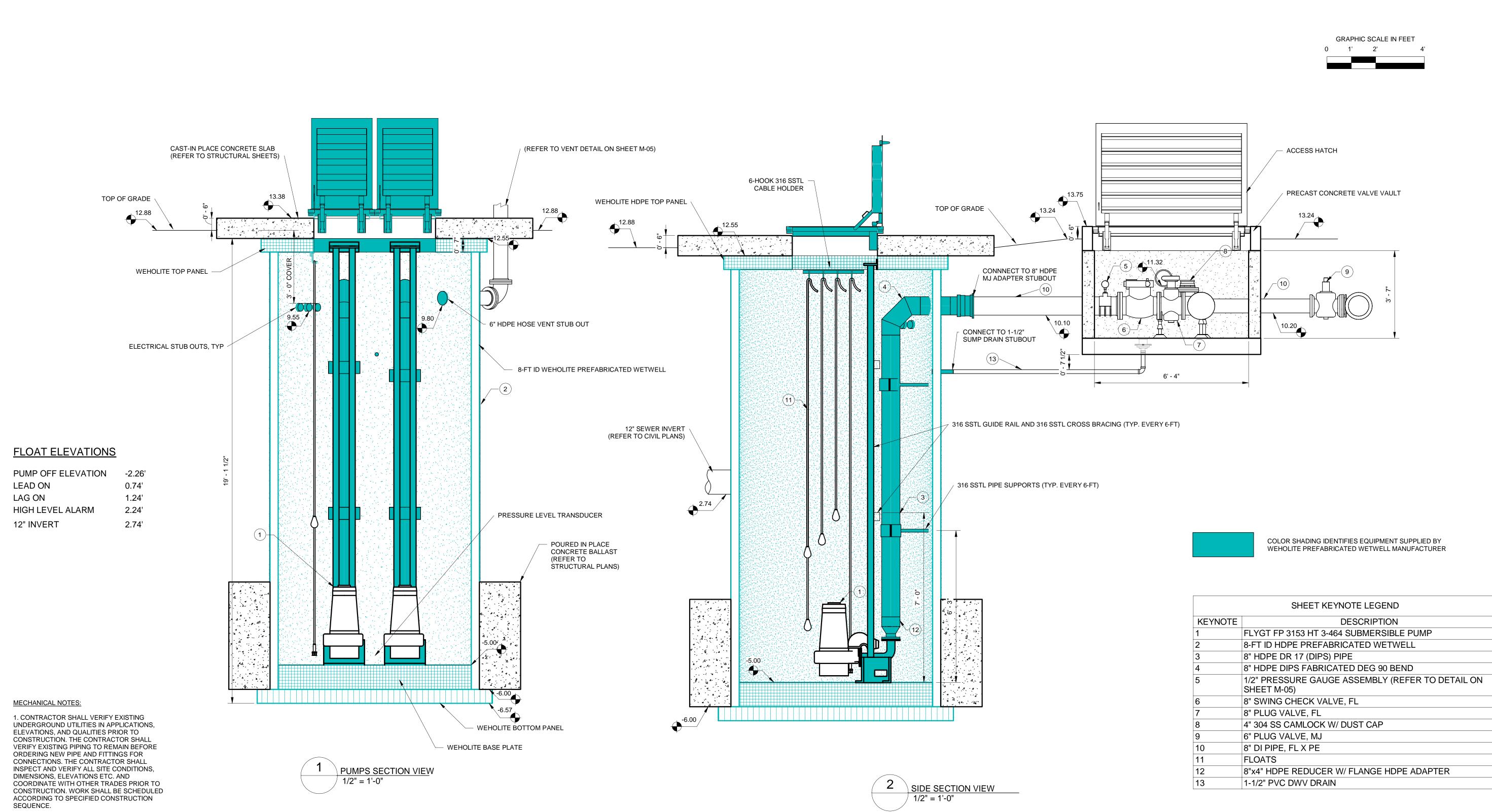


SCALE: AS SHOWN
DESIGNED BY: KEG

CITY OF CORAL GABLES PUMP STATION CITY NO. 6 IMPROVEMENTS

> PROPOSED PUMP STATION PLAN VIEW

PERMIT SET



### 5. PIPE SUPPORTS SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.

IN VAULT TO USE FLANGE JOINT.

- 6. PROVIDE SPARK-PROOF CONTACT BETWEEN PUMPS AND GUIDE RAIL SYSTEM.
- 7. ALL PUMP CONTROLS SHALL BE SET AS PER DESIGN REQUIREMENTS.

2. PAY ATTENTION TO AVOID DISTURBING EXISTING ELECTRICAL SERVICE IN THE AREA UNDER CONSTRUCTION (FOR EXISTING

3. ALL PIPINGS, UNLESS SPECIFIED, TO USE DUCTILE IRON WITH LINING OF SEWER APPLICATION. FITTINGS AND CONNECTIONS UNDERGROUND TO USE MECHANICAL JOINT WITH RESTRAINTS; FITTINGS ABOVE GROUND OR

4. PROTECT ALL UNDERGROUND FITTINGS WITH

BOLT CONNECTIONS IN DIRECT CONTACT WITH SOIL WITH TWO COATS OF BITUMASTIC MATERIAL OR APPROVED EQUAL. PROVIDE DIELECTRIC FITTINGS BETWEEN TWO DIFFERENT PIPING

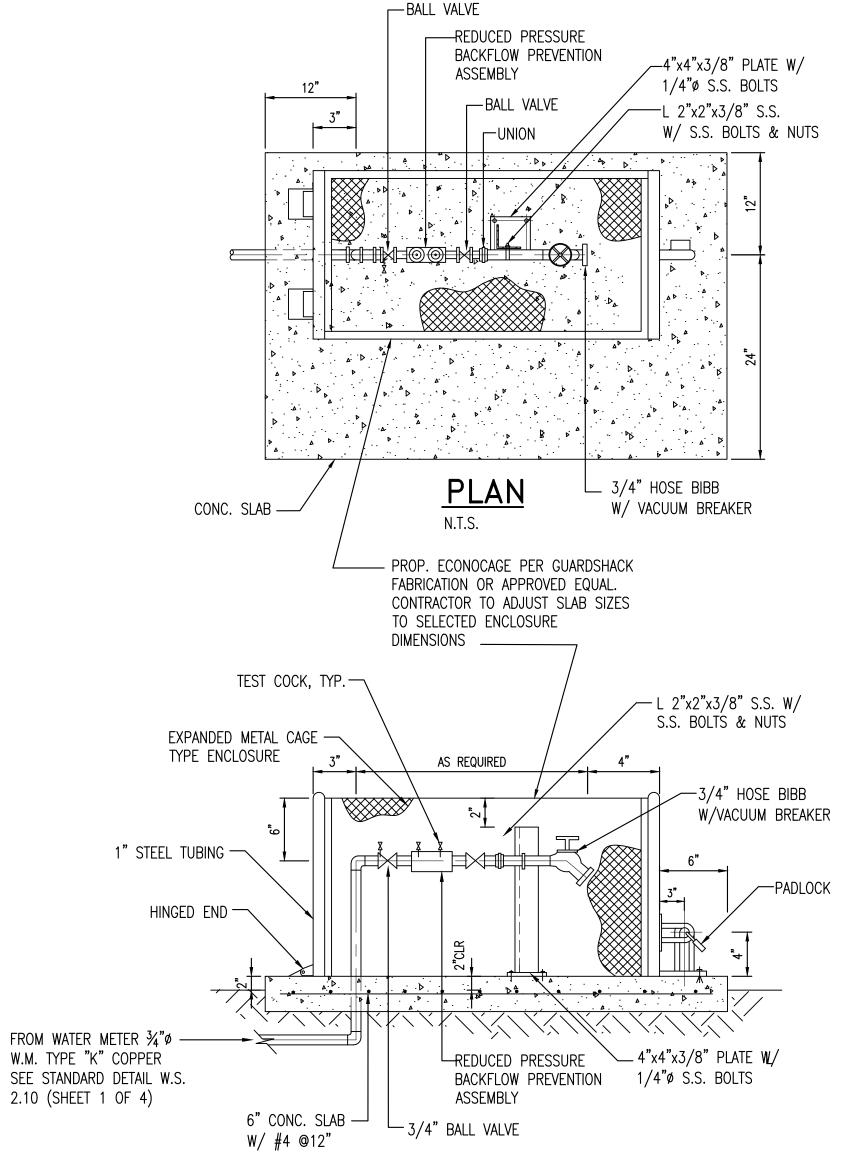
FACILITIES ONLY).

MATERIALS.

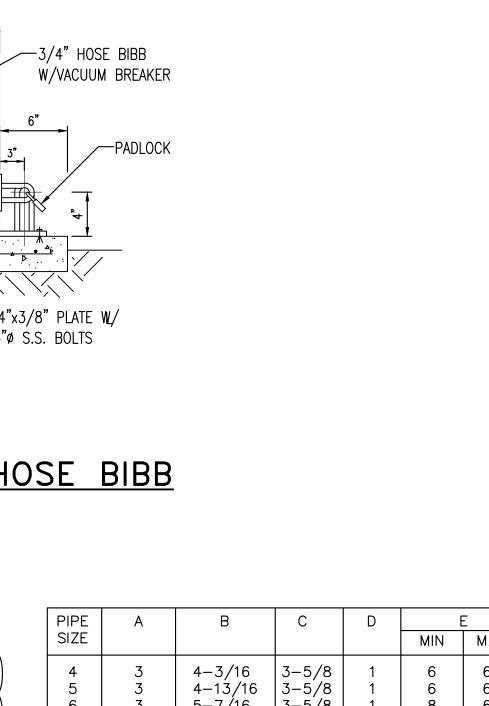
8. INSTALL NEW PRESSURE TRANSDUCER.

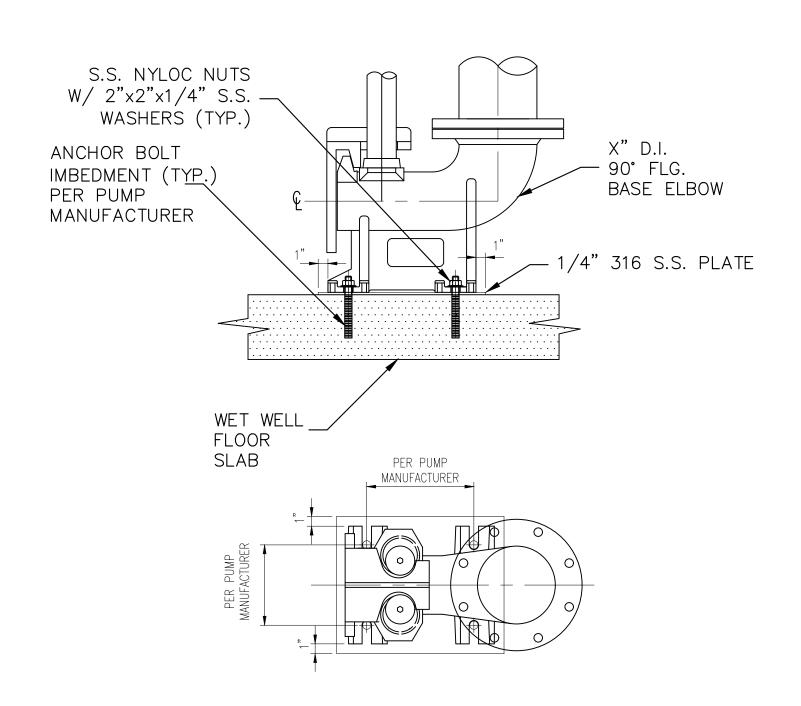
### FLOODPLAIN NOTES:

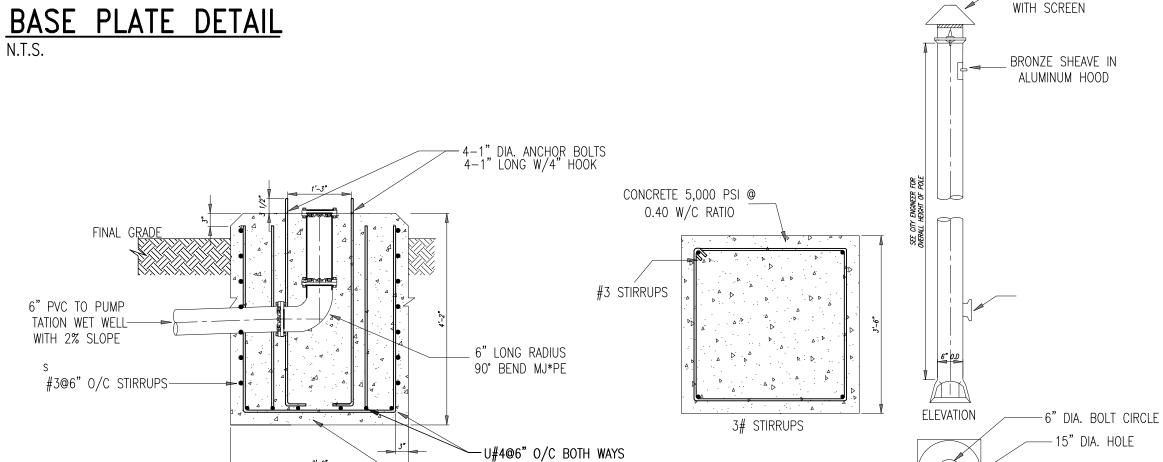
1. PUMP STATION CITY 6 IS LOCATED WITHIN ZONE X AS DEFINED BY FEMA FIRM RATE MAP NUMBER 12086C0457L



# BACKFLOW PREVENTER WITH HOSE BIBB

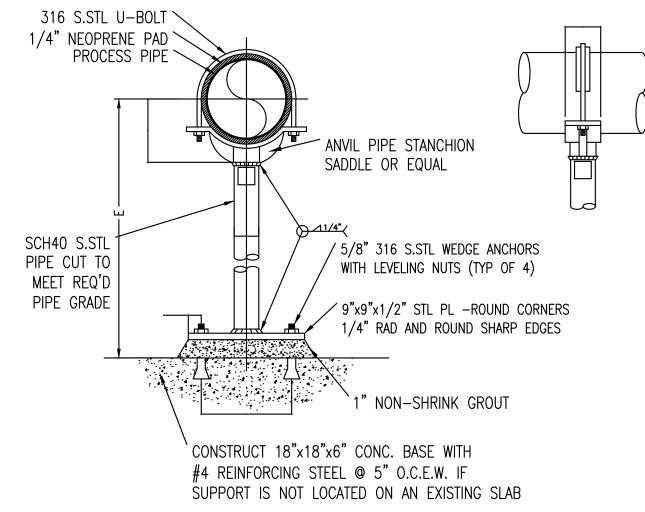






# FLAG POLE FOUNDATION AND VENT DETAIL

CONCRETE 5,000 PSI @ 0.40 W/C RATIO



PIPE	Α	В	С	D	E	
SIZE					MIN	MAX
4 5 6 8 10 12 14 16 18	3 3 3 3 3 3 3 4	4-3/16 4-13/16 5-7/16 6-15/16 8-7/16 9-15/16 10-1/2 11-1/2 13-1/2	3-5/8 3-5/8 3-5/8 3-5/8 3-5/8 3-5/8 6 6	1 1 1 1 1 1 1	6 8 8 10 12 6 8	60 60 60 60 60 60 60
20 24 26 30	4 4 4 4	14-1/2 17-1/2 18-1/2 20-5/8	6 6 6 6	1 1 1	10 12 6 8	60 60 60
32 36	4 4 4	20-3/8 21-5/8 23-5/8	6 6	1 1	8 10	60 60
* ALL DIMENSIONS IN INCHES						

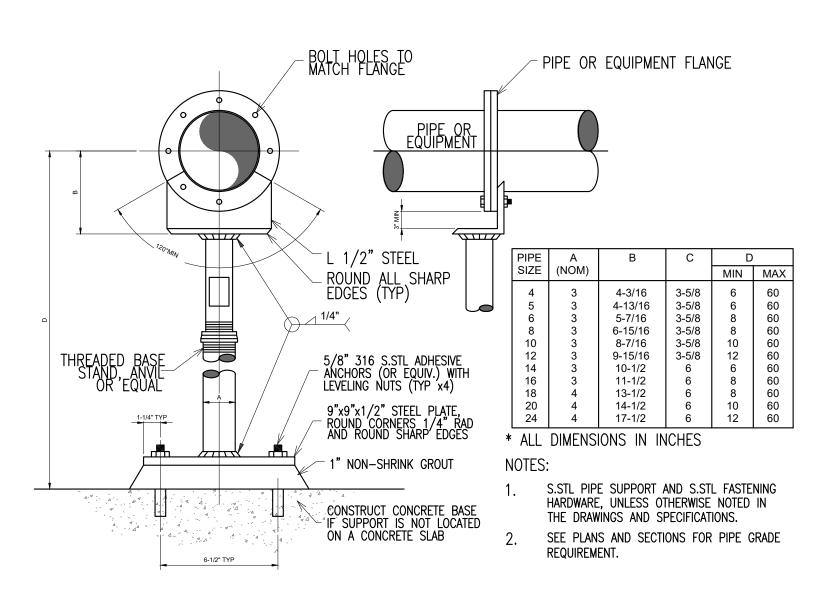
NOTES:

1. HOT-DIP GALVANIZE ENTIRE PIPE SUPPORT AFTER FABRICATION (EXCEPT FOR STAINLESS STEEL FASTENING HARDWARE).

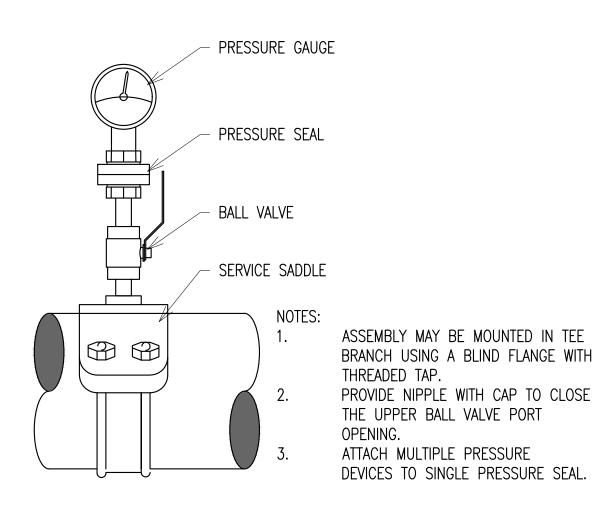
SEE PLANS AND SECTIONS FOR PIPE GRADE REQUIREMENT (DIMENSION "E").
 PIPE SUPPORT SHALL BE HOT DIPPED GALVANIZED, STAINLESS STEEL, OR

UNLESS OTHERWISE NOTED ON THE DRAWINGS AND SPECIFICATIONS.

PIPE SUPPORT-STANCHION SADDLE
N.T.S.



PIPE SUPPORT-STANCHION FLANGE



PRESSURE GAUGE WITH SEAL

PERMIT SET

1 PERMIT SET KEG 5/19/2023

No. Revisions By Date

S.S. VERTICAL

OR APPROVED

EQUAL

AS REQ'D AS REQ'D

VERTICAL PIPE SUPPORT DETAIL

STAINLESS STEEL TO AS 2837-1986: WROUGHT ALLOY

STEELS-STAINLESS STEEL BARS AND SEMI-FINISHED

PRODUCT GRADE 316 (316 IF WELDED) UNLESS

2. DIM "X" TO BE MEASURED AND CONFIRMED ON SITE

OTHERWISE NOTED.

- 5" CONE TOP CHIMNEY CAP

S.S. BAR (SEE NOTE 1)

"X"ø SS EXP.-

& NUT

ANCHOR, WASHER

SUPPORT HANGER.

ANVIL FIG. 261SS

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2 ALHAMBRA PLAZA SUITE 500, MIAMI, FL 33143
PHONE: 305-673-2025



4/20/2023
SCALE: AS SHOWN
DESIGNED BY: KEG
DRAWN BY: CDT

CITY OF CORAL GABLES
PUMP STATION CITY NO. 6
IMPROVEMENTS

PUMP DETAILS

M-05