PASCO COUNTY FLORIDA
OPEN SPACES. VIBRANT PLACES.
AUTHORIZED
RESSUB-2023-00081 5/10/2024
These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations

NOTICE:
EROSION AND SEDIMENT BEST MANAGEMENT PRACTICES SHALL BE INSPECTED BY PUBLIC WORKS BEFORE COMMENCING ANY SITE PREPARATIONS.
TO REQUEST AN INSPECTION, PLEASE CONTACT PUBLIC WORKS AT LEAST TWO WORKING DAYS IN ADVANCE.
TELEPHONE: (727) 834-3611

NOTICE:
EMAIL INSPECTION REQUESTS TO THE ENGINEERING INSPECTIONS DEPARTMENT FOR FINAL SITE INSPECTION PRIOR TO C/O ISSUANCE AT
EngineeringInspectionsStaff@pascocountyfl.net

PRELIMINARY DEVELOPMENT PLAN, CONSTRUCTION PLAN, AND STORMWATER MANAGEMENT PLAN

for

VILLA RICHEY

4206/4210 MADISON STREET
NEW PORT RICHEY, FL

GENERAL CONSTRUCTION NOTES

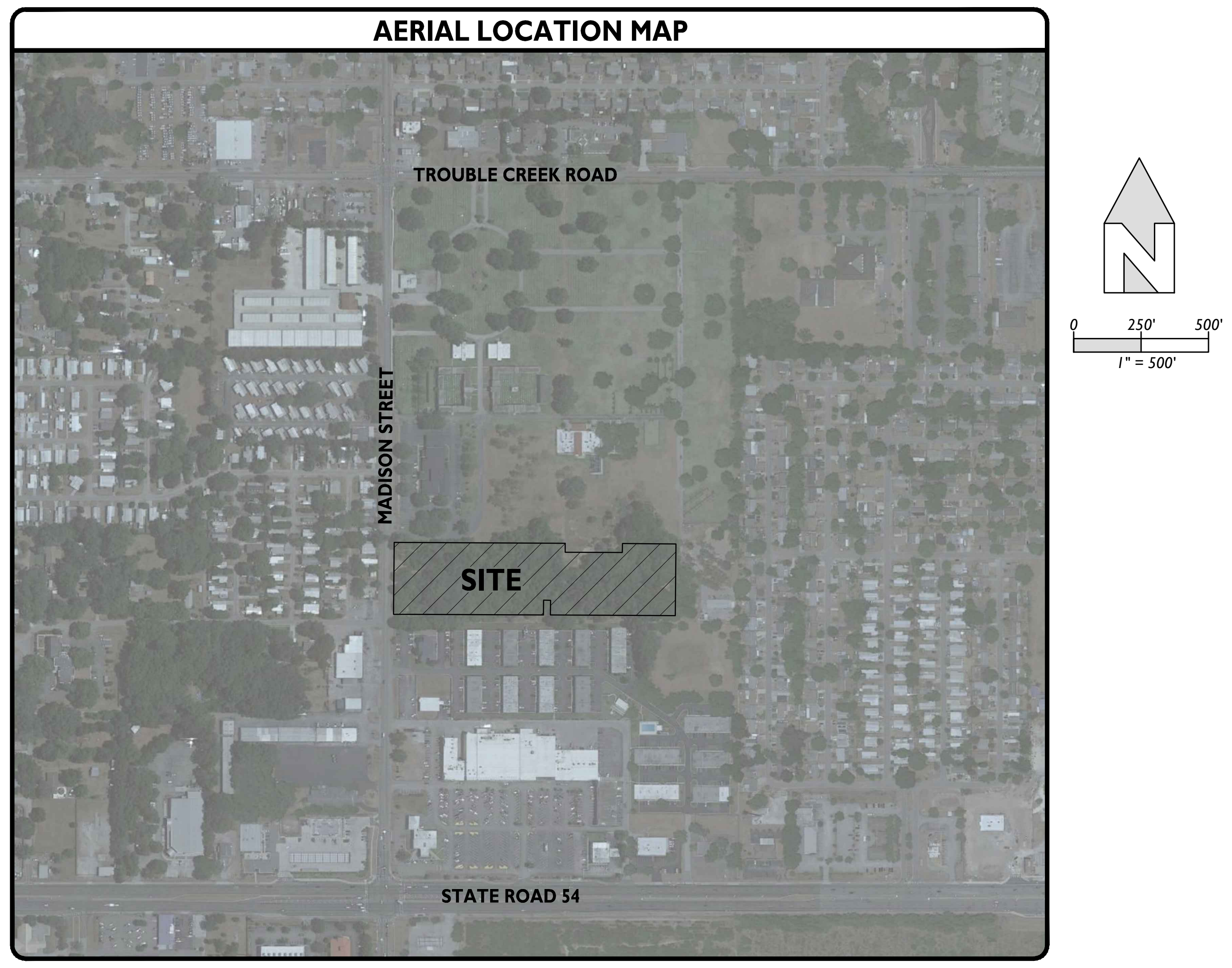
THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH THE NOTES AND SPECIFICATIONS CONTAINED HEREIN.

1. NOTED REFERENCE DOCUMENTS ARE SPECIFICALLY INCORPORATED AS PART OF THIS PLAN SET. THE CONTRACTOR SHALL OBTAIN COPIES OF AND FAMILIARIZE THEMSELVES WITH ALL DOCUMENTS SPECIFICALLY REFERENCED ANYWHERE WITHIN THIS PLAN SET
2. ALL ACCESSIBLE SITE FEATURES (PATHS, PARKING SPACES, AISLES, LANDINGS, RAMPS, SIGNAGE, ETC.) SHALL BE CONSTRUCTED IN COMPLIANCE WITH THE "AMERICANS WITH DISABILITIES ACT" (ADA) CODE (42 U.S.C. § 12101 ET SEQ. AND 42 U.S.C. § 4151 ET SEQ.). THE CONTRACTOR SHALL CONFIRM ACHIEVABLE COMPLIANCE PRIOR TO INSTALLING ANY FINISHED SURFACES IN ACCESSIBLE AREAS
3. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL AFTER THE CONTRACTOR HAS FAMILIARIZED THEMSELVES WITH ALL ENTITLEMENT DOCUMENTS, CONSTRUCTION PERMIT DOCUMENTS, AND ASSOCIATED CONDITIONS OF APPROVAL
4. THE CONTRACTOR SHALL MAINTAIN COPIES OF ALL CONSTRUCTION PERMITS AND APPROVALS AT THE PROJECT SITE, THROUGHOUT CONSTRUCTION
5. THE CONTRACTOR SHALL BE FAMILIAR WITH AND RESPONSIBLE FOR THE PROCUREMENT OF THE CERTIFICATE OF OCCUPANCY
6. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND ALL APPLICABLE REQUIREMENTS AND STANDARDS OF THE APPROPRIATE GOVERNMENTAL AUTHORITIES FOR THIS PROJECT
7. THE ENGINEER IS NOT RESPONSIBLE FOR CONSTRUCTION METHODS / MEANS FOR COMPLETION OF THE WORK DEPICTED NEITHER ON THESE PLANS, NOR FOR ANY CONFLICTS/SCOPE REVISIONS WHICH RESULT FROM SAME.
8. AS PART OF THEIR CONTRACT WITH THE OWNER, THE CONTRACTOR IS RESPONSIBLE TO ESTABLISH CONSTRUCTION MEANS AND METHODS FOR COMPLETING THE WORK DETAILED IN THIS PLAN SET
9. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND NOTIFY BARDEZ, LLC OF ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS, AND/OR WHICH HAS POTENTIAL TO IMPACT THE CONSTRUCTION COST OR SCHEDULE
10. ALL WRITTEN INFORMATION (TEXT, GRADES, DIMENSIONS, NOTES, ETC.) SHOWN WITHIN THE PLAN SET SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY BARDEZ, LLC OF ANY DISCREPANCIES AND/OR SHALL REQUEST CLARIFICATION FROM BARDEZ, LLC IN WRITING BEFORE BEGINNING CONSTRUCTION.
11. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL REVIEW ALL OTHER CONSTRUCTION PLANS/DOCUMENTS FOR CONSISTENCY BETWEEN THE INFORMATION SHOWN WITHIN THIS PLAN SET. CONTRACTOR SHALL NOTIFY BARDEZ, LLC OF ANY DISCREPANCIES AND/OR SHALL REQUEST CLARIFICATION FROM THE PLAN(S) PREPAROR(S) IN WRITING BEFORE BEGINNING CONSTRUCTION.
12. DEBRIS SHALL NOT BE BURIED ON THE SUBJECT SITE AND ALL UNSUITABLE EXCAVATED MATERIAL AND DEBRIS SHALL BE DISPOSED OF IN ACCORDANCE WITH THE REQUIREMENTS AND STANDARDS OF THE APPROPRIATE GOVERNMENTAL AUTHORITIES FOR THIS PROJECT
13. THE CONTRACTOR IS RESPONSIBLE FOR ALL SHORING REQUIRED DURING EXCAVATION (TO BE PERFORMED IN ACCORDANCE WITH CURRENT OSHA STANDARDS) AND ANY ADDITIONAL PRECAUTIONS TO BE TAKEN TO ENSURE THE STABILITY OF STRUCTURES
14. THROUGHOUT CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING STRUCTURES, VEGETATION, FEATURES, INFRASTRUCTURE, ETC., WHICH IS NOT SPECIFICALLY IDENTIFIED FOR REMOVAL WITHIN THIS PLAN SET
15. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE DONE TO ANY NEW OR EXISTING CONSTRUCTION OR PROPERTY DURING THE COURSE OF CONSTRUCTION, INCLUDING BUT NOT LIMITED TO DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURB, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL REPLACE ALL SIGNAL INTERCONNECTION CABLE, WIRING CONDUITS, AND ANY UNDERGROUND ACCESSORY EQUIPMENT DAMAGED DURING CONSTRUCTION. THE REPAIR OF ANY SUCH NEW OR EXISTING CONSTRUCTION OR PROPERTY SHALL RESTORE SUCH CONSTRUCTION OR PROPERTY TO A CONDITION EQUIVALENT TO OR BETTER THAN THE EXISTING CONDITIONS, AND IN CONFORMANCE WITH APPLICABLE CODES. CONTRACTOR IS RESPONSIBLE TO DOCUMENT ALL EXISTING DAMAGE AND NOTIFY THE APPROPRIATE PARTIES BEFORE BEGINNING ANY CONSTRUCTION ACTIVITIES
16. BARDEZ, LLC IS NOT RESPONSIBLE FOR CONSTRUCTION JOB SITE SAFETY
17. ALL CONTRACTORS MUST CARRY THE SPECIFIED STATUTORY WORKER'S COMPENSATION INSURANCE, EMPLOYER'S LIABILITY INSURANCE AND LIMITS OF COMMERCIAL GENERAL LIABILITY INSURANCE (CGL). ALL CONTRACTORS MUST HAVE THEIR CGL POLICIES ENDORSED TO NAME BARDEZ, LLC, AND THEIR SUB-CONSULTANTS AS ADDITIONAL NAMED INSURERS AND TO PROVIDE CONTRACTUAL LIABILITY COVERAGE SUFFICIENT TO ENSURE THE HOLD HARMLESS AND INDEMNITY OBLIGATIONS ASSUMED BY THE CONTRACTORS. ALL CONTRACTORS MUST FURNISH BARDEZ, LLC WITH EVIDENCE OF THE REQUIRED INSURANCE PRIOR TO COMMENCING WORK AND UPON RENEWAL OF EACH POLICY DURING THE ENTIRE PERIOD OF CONSTRUCTION. IN ADDITION, ALL CONTRACTORS WILL, TO THE FULLEST EXTENT PERMITTED BY LAW, INDEMNIFY AND HOLD HARMLESS BARDEZ, LLC AND ITS SUB-CONSULTANTS FROM AND AGAINST ANY DAMAGES, LIABILITIES OR COSTS, INCLUDING REASONABLE ATTORNEYS' FEES AND DEFENSE COSTS, ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE PROJECT, INCLUDING ALL CLAIMS BY EMPLOYEES OF THE CONTRACTORS
18. WHEN ENGAGED BY THE OWNER, OR OTHER APPROPRIATE PARTY, BARDEZ, LLC WILL REVIEW CONTRACTOR SUBMITTALS, SUCH AS SHOP DRAWINGS, PRODUCT DATA, SAMPLES, AND OTHER DATA, BUT ONLY FOR THE LIMITED PURPOSE OF CHECKING FOR CONFORMANCE WITH THE DESIGN INTENT AND THE INFORMATION SHOWN IN CONSTRUCTION CONTRACT DOCUMENTS PREPARED BY BARDEZ, LLC AND ITS SUB-CONSULTANTS
19. WHEN ENGAGED BY THE OWNER, OR OTHER APPROPRIATE PARTY, BARDEZ, LLC WILL CONDUCT REVIEW OF CONTRACTOR SUBMITTALS WITH REASONABLE PROMPTNESS. BARDEZ, LLC IS NOT BE RESPONSIBLE FOR ANY DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS NOT BROUGHT TO ATTENTION, IN WRITING, BY THE CONTRACTOR
20. NEITHER THE PROFESSIONAL ACTIVITIES OF BARDEZ, LLC, NOR THE PRESENCE OF BARDEZ, LLC EMPLOYEES OR SUB-CONSULTANTS AT A CONSTRUCTION / PROJECT SITE, SHALL RELIEVE THE GENERAL CONTRACTOR OF THEIR OBLIGATIONS, DUTIES, AND RESPONSIBILITIES INCLUDING, BUT NOT LIMITED TO: CONSTRUCTION MEANS AND METHODS, SEQUENCE, SCHEDULE, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING, SUPERINTENDING AND COORDINATING THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES. BARDEZ, LLC AND ITS PERSONNEL HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OVER ANY CONSTRUCTION CONTRACTOR OR ITS EMPLOYEES IN CONNECTION WITH THEIR WORK OR ANY HEALTH OR SAFETY PROGRAMS OR PROCEDURES
21. IF THE CONTRACTOR DEVIATES FROM THE PLANS AND SPECIFICATIONS, INCLUDING THE NOTES CONTAINED HEREIN, WITHOUT FIRST OBTAINING THE PRIOR WRITTEN AUTHORIZATION OF BARDEZ, LLC FOR SUCH DEVIATIONS, CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE PAYMENT OF ALL COSTS INCURRED IN CORRECTING ANY WORK DONE WHICH DEVIATES FROM THE PLANS, ALL FINES AND/OR PENALTIES ASSESSED WITH RESPECT THERETO AND ALL COMPENSATORY OR PUNITIVE DAMAGES RESULTING THEREFROM. THE CONTRACTOR SHALL INDEMNIFY AND HOLD THE OWNER AND BARDEZ, LLC HARMLESS FROM ALL SUCH RELATED COSTS
22. CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE AND PROTECTION OF TRAFFIC PLAN FOR ALL WORK THAT AFFECTS PUBLIC TRAVEL EITHER IN A PUBLIC RIGHT-OF-WAY OR PRIVATE PROPERTY. THE COST FOR SUCH ACTIVITIES SHOULD BE CONSIDERED AS PART OF THE CONSTRUCTION CONTRACT
23. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH CONSTRUCTION PERMIT CONDITIONS, INCLUDING, BUT NOT LIMITED TO PRE-CONSTRUCTION REQUIREMENTS, AND PERMIT CLOSE-OUT
24. NECESSARY EASEMENTS SHALL BE SECURED, RECORDED, AND PAID FOR BY THE CONTRACTOR
25. WHEN ENGAGED BY THE OWNER, OR OTHER APPROPRIATE PARTY, BARDEZ, LLC REQUIRES A MINIMUM 48 HOUR NOTICE IN ADVANCE OF SCHEDULED INSPECTIONS OR MEETINGS
26. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE AMENTIES DURING CONSTRUCTION, INCLUDING, BUT NOT LIMITED TO WATER SERVICES, SANITATION FACILITIES, ELECTRIC SERVICES, ETC
27. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR FOR ANY NECESSARY CONSTRUCTION, PAVEMENT MARKINGS, SIGNAGE, OR SIGNAL MODIFICATIONS NECESSARY FOR CONTINUITY OF PEDESTRIAN SAFETY THROUGHOUT CONSTRUCTION. ANY TRAFFIC CONTROL DEVICES, MODIFIED FOR THE PURPOSE OF CONSTRUCTION, SHALL BE RESTORED TO THE SATISFACTION OF THE GOVERNING TRAFFIC AUTHORITY
28. THE CONTRACTOR SHALL INDEPENDENTLY DETERMINE THE TRUE VERTICAL AND HORIZONTAL LOCATION AND SIZE OF ALL UTILITIES, PIPES, AND/OR STRUCTURES AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO PUBLIC OR PRIVATE UTILITIES, SHOWN OR NOT SHOWN WITHIN THIS PLAN SET

PROJECT CLOSEOUT NOTES

1. DURING CONSTRUCTION, THE PROJECT SITE AND ALL ADJACENT AREAS SHALL BE MAINTAINED IN A NEAT AND CLEAN MANNER, AND UPON FINAL CLEAN-UP, THE PROJECT SITE SHALL BE LEFT CLEAR OF ALL SURPLUS MATERIAL OR TRASH. THE PAVED AREAS SHALL BE SWEPT BROOM CLEAN
2. THE CONTRACTOR SHALL RESTORE OR REPLACE, WHEN AND AS DIRECTED, ANY PUBLIC OR PRIVATE PROPERTY DAMAGED BY HIS WORK, EQUIPMENT, OR EMPLOYEES, TO A CONDITION AT LEAST EQUAL TO THAT EXISTING IMMEDIATELY PRIOR TO THE BEGINNING OF OPERATIONS. TO THAT END, THE CONTRACTOR SHALL DO, AS REQUIRED, ALL NECESSARY HIGHWAY, DRIVEWAY, WALK AND LANDSCAPING WORK. SUITABLE MATERIALS AND METHODS SHALL BE USED FOR SUCH RESTORATION
3. WHERE MATERIAL OR DEBRIS HAS WASHED OR FLOWED INTO OR HAS 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
4. 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 AND MAPPER AT THE CONTRACTOR'S EXPENSE
5. ALL PAVED & UNPAVED SURFACES DISTURBED OR DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THAT WHICH EXISTED BEFORE THE CONSTRUCTION

AERIAL LOCATION MAP



REFERENCE DOCUMENTS

DOCUMENT: BOUNDARY AND TOPOGRAPHIC SURVEY
DATE: 10-12-2021
PREPARED BY: PRECISION SURVEYING & MAPPING, INC.
7710 MASSACHUSETTS AVENUE
NEW PORT RICHEY, FL 34653
TEL. (727) 841-8414

PROJECT TEAM

OWNER/DEVELOPER:
VILLA RICHEY, LLC
4017 ORIOLE AVENUE
PORT ORANGE, FL 32127
TEL. (386) 527-5089
EMAIL: URSULA.AMON@GMAIL.COM

CIVIL ENGINEER:
BARDEZ, LLC
5048 POINTE EMERALD LANE
BOCA RATON, FL 33486
TEL. (561) 465-5949
EMAIL: NBARNETT@BARDEZCO.COM

SURVEYOR:
PRECISION SURVEYING & MAPPING, INC.
7710 MASSACHUSETTS AVENUE
NEW PORT RICHEY, FL 34653
TEL. (727) 841-8414
EMAIL: JSR@PSMFLA.COM

LANDSCAPE ARCHITECT:
IVY LEAGUE LANDSCAPE ARCHITECTS, INC.
4180 TREADWAY ROAD
NEW SMYRNA BEACH, FL 32168
TEL. (386) 846-0901
EMAIL: NICK@IVYLEAGUELA.COM

PROJECT/PARCEL AREA

EXISTING: 269,969 SF, 6.20 AC
PROPOSED: 264,643 SF, 6.08 AC **(*)**

(*) - ACCOUNTS FOR MADISON ST. R/W DEDICATION (5,326 SF, 0.12 AC)

PROPOSED LOTS

73 PROPOSED RESIDENTIAL LOTS

Know what's **below.**
Call before you dig.

UTILITY PURVEYORS

GAS:
CLEARWATER GAS SYSTEM
711 MAPLE STREET
CLEARWATER, FL 33755
PH: (727) 638-0763

TELEPHONE:
SPECTRUM
30432 STATE ROAD 54
WESLEY CHAPEL, FLORIDA 33543
PH: (813) 862-0522

CABLE:
SPECTRUM
30432 STATE ROAD 54
WESLEY CHAPEL, FLORIDA 33543
PH: (813) 862-0522

ELECTRIC:
DUKE ENERGY
4121 ST. LAWRENCE DRIVE
NEW PORT RICHEY, FL 34653
PH: (727) 372-5148

WATER/SEWER:
PASCO COUNTY UTILITIES
19420 CENTRAL BOULEVARD
LAND O' LAKES, FL 34637
PH: (813) 235-6012

SHEET INDEX

ID	TITLE
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C-2.0	SEDIMENT AND EROSION CONTROL PLAN
C-3.0	SITE PLAN
C-3.1	CONCEPTUAL LOT PLAN
C-4.0	ENGINEERING PLAN
C-4.1	GRADING CROSS SECTIONS
C-4.2	STORM DRAIN PROFILES
C-4.3	ENGINEERING DETAILS
C-4.4	ENGINEERING DETAILS
C-4.5	ADS STORM CHAMBER DETAILS
C-4.6	ADS STORM CHAMBER DETAILS
C-4.7	ADS STORM CHAMBER DETAILS
C-5.0	SANITARY SEWER PLAN
C-5.1	SANITARY PUMP STATION DETAILS
C-5.2	SANITARY SEWER DETAILS
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LA1-2	LANDSCAPE PLAN AND DETAILS

BARDEZ

5048 POINTE EMERALD LANE; BOCA RATON, FL 33486
(0) 561-465-5949 | (e) nbarnett@bardezco.com

SANITARY SEWER CONSTRUCTION NOTES

1) **GENERAL**
   a. DISTANCE AND LENGTHS SHOWN ON PLANS BEAR REFERENCE TO THE INSIDE WALL OF STRUCTURES
   b. IN THE CASE OF A CONFLICT, THE SANITARY SEWER CONSTRUCTION NOTES ARE SUPERCEDED BY THE CITY OF PORT ORANGE RULES, REGULATIONS, AND STANDARD CONSTRUCTION DETAILS
2) **MATERIALS**
   a. ALL PVC SEWER PIPE AND FITTINGS SHALL BE NON-PRESSURE POLYVINYL CHLORIDE (PVC) PIPE CONFORMING TO ASTM D 3034, SDR 26, WITH PUSH-ON RUBBER GASKET JOINTS
   b. DUCTILE IRON PIPE (DIP) SHALL BE CEMENT OR POLYLINED INSIDE AND SHALL HAVE A COAL TAR EPOXY COATING, MANUFACTURED IN ACCORDANCE WITH ANSI/AWWA C151/A21.51-86 OR LATEST REVISION, MINIMUM WALL THICKNESS CLASS 52 (4"-12") & CLASS 51 (14"-20")
   c. ALL FITTINGS AND ACCESSORIES SHALL BE AS MANUFACTURED AND SUPPLIED BY THE PIPE MANUFACTURER, OR APPROVED EQUIVALENT
3) **INSTALLATION**
   a. PIPE AND FITTINGS
      - SEWER PIPE SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, AND THE UNI-BELL PLASTICS PIPE ASSOCIATION'S 'RECOMMENDED PRACTICE FOR THE INSTALLATION OF PVC SEWER PIPE"
      - DUCTILE IRON PIPE (D.I.P.) SHALL BE INSTALLED IN ACCORDANCE WITH ANSI/AWWA C600-93 OR LATEST REVISION
      - BEDDING AND INITIAL BACKFILL (12 INCHES) OVER SEWER MAINS AND SERVICES SHALL BE SAND WITH NO ROCK LARGER THAN 1" IN DIAMETER. PEA ROCK OR 3/4 " WASHED ROCK WILL BE USED IN WATER OR WHERE UNSUITABLE BEDDING EXISTS AT THE DISCRETION OF THE INSPECTOR
   b. SERVICE:
      - MINIMUM SLOPE OF ALL SANITARY SERVICE LATERALS SHALL BE PER PLAN, AND NO LESS THAN THE MINIMUM PERMISSIBLE SLOPES NOTED IN THE LATEST EDITION OF THE FLORIDA BUILDING CODE
      - SERVICE LATERALS SHALL TERMINATE AT A MINIMUM DEPTH OF 30" BELOW FINISHED GRADE
      - SERVICE CONNECTIONS SHALL BE FITTED WITH AN APPROVED/WATER-TIGHT PLUG PRIOR TO CONNECTION
      - THE END OF EACH SERVICE CONNECTION SHALL BE MARKED WITH A SURVEY STAKE, PAINTED RED AND EXTENDING 18"(MIN) ABOVE GRADE
      - CONTRACTOR SHALL ROUGH IN RISER TO 1 FOOT ABOVE FINISHED GRADE AND PLUG. AT PROJECT COMPLETION, CUT BACK TO FINISHED GRADE
      - CONNECTION OF SERVICES TO BUILDING'S PLUMBING SHALL BE IN COMPLIANCE WITH THE PLUMBING AUTHORITY
5) **TESTING**
   a. UPON CONSTRUCTION OF THE SEWER SYSTEM, THE ENGINEER MAY REQUIRE A LEAKAGE TEST TO BE PERFORMED AT THEIR DISCRETION
   b. MANHOLE LEAKAGE TEST SHALL NOT EXCEED FOUR GALLONS PER DAY PER UNIT. NO VISIBILE LEAKAGE IS PERMITTED
   c. SEWER PIPE LEAKAGE ALLOWABLE SHALL NOT EXCEED 150 GALLONS/DAY/INCH DIAMETER/MILE, WITHIIN A TWO HOUR TEST PERIOD FOR ANY SECTION TESTED. NO VISIBLE LEAKAGE SHALL BE ALLOWED AND ALL LINES SHALL BE TELEVISED
   d. SANITARY SEWER SHALL BE TELEVISED AND LAMPED AT DEVELOPER'S EXPENSE, PRIOR TO FINAL ACCEPTANCE. OWNER / CONTRACTOR IS RESPONSIBLE FOR CORRECTING ANY DEFICIENCIES IN ADVANCE OF AGENCY CERTIFICATION
   e. VISIBLE LEAKAGE INTO EXISTING OR CONSTRUCTED SEWER FACILITIES IS NOT PERMITTED

MANDATORY WATER/SEWER SEPARATION NOTES

1) **VERTICAL CROSSINGS**
SANITARY SEWER SYSTEMS AND/OR RECLAIMED WATER MAINS SHALL CROSS UNDER POTABLE WATER MAINS WHENEVER PHYSICALLY POSSIBLE. SANITARY SEWER SYSTEMS AND/OR RECLAIMED WATER MAINS CROSSING BELOW POTABLE WATER MAINS SHALL BE LAID TO PROVIDE A PREFERRED VERTICAL SEPARATION DISTANCE OF 12 INCHES (MINIMUM 6" FOR GRAVITY/RECLAIMED MAIN) BETWEEN THE INVERT OF THE POTABLE WATER MAIN AND THE CROWN OF THE LOWER PIPE

2) **HORIZONTAL SEPARATIONS**
WHEREVER IT IS PHYSICALLY POSSIBLE:
   a. SANITARY SEWER SYSTEMS REQUIRE A PREFERRED 10-FOOT HORIZONTAL SEPARATION DISTANCE (MINIMUM 6-FOOT) OUTSIDE TO OUTSIDE OF PIPE BETWEEN ANY POTABLE WATER MAIN PARALLEL INSTALLATIONS.
   b. RECLAIMED WATER MAINS REQUIRE A MINIMUM OF A 3 FOOT OUTSIDE TO OUTSIDE OF PIPE HORIZONTAL SEPARATION DISTANCE BETWEEN ANY POTABLE WATER MAIN AND/OR A SANITARY SEWER SYSTEM PARALLEL INSTALLATIONS.
   c. WHEREVER EITHER ARE NOT PHYSICALLY POSSIBLE, THEN THE POTABLE WATER MAIN SHALL BE LAID AT THE MAXIMUM PHYSICAL HORIZONTAL SEPARATION DISTANCE POSSIBLE, AND EITHER LAID: A) IN A SEPARATE TRENCH; B) ON AN UNDISTURBED EARTH SHELF; AND CONFORMING TO THE MINIMUM VERTICAL CROSSINGS IN PARAGRAPH 1)

3) **CONFLICTS**
WHEREVER IT IS NOT POSSIBLE TO MAINTAIN THE MINIMUM STANDARDS IN 1) AND 2), THEN ALL PIPING MATERIAL SHALL BE DUCTILE IRON PIPE (DIP). ALL DIP SHALL BE CLASS 50 OR HIGHER. ADEQUATE PROTECTIVE MEASURES AGAINST CORROSION SHALL BE USED AS DETERMINED BY THE DESIGN AND SITE CONDITIONS. ADDITIONALLY, THE POTABLE WATER MAIN SHALL A FULL JOINT CENTERED ON THE CONFLICT AND MECHANICALLY RESTRAINED. AN ABSOLUTE MINIMUM VERTICAL SEPARATION DISTANCE OF 6 INCHES SHALL BE PROVIDED BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE

RECORD DOCUMENTATION NOTES

1. THROUGHOUT DURATION OF THE PROJECT, THE CONTRACTOR SHALL KEEP APPROPRIATE RECORDS FOR ANY CONSTRUCTION ACTIVITIES WHICH DEVIATE FROM THIS PLAN SET
2. THE CONTRACTOR SHALL FURNISH 'AS-BUILT' PLANS OF THE PAVEMENT BASE ('ROCK') AND DRAINAGE INSTALLATIONS TO BARDEZ, LLC FOR REVIEW/APPROVAL BEFORE PLACING THE FIRST LIFT OF ASPHALT
3. PRESSURE PIPE SYSTEMS (WATER DISTRIBUTION, SANITARY SEWER FORCE MAIN, RECLAIMED WATER) 'AS-BUILTS' MUST CONTAIN LOCATION AND ELEVATION OF ALL APPURTENANCES, FITTINGS, AND SERVICES. TOP OF PIPE ELEVATIONS SHALL BE DETAILED ALONG PIPE INSTALLATIONS @ MAXIMUM 50 FT INTERVALS
4. ALL CONSTRUCTION 'AS-BUILTS' SHALL BE CERTIFIED BY A PROFESSIONAL LAND SURVEYOR, LICENSED TO DO BUSINESS IN THE STATE OF FLORIDA.
5. CONSTRUCTION 'AS-BUILTS' FOR GRAVITY SEWER INSTALLATIONS SHALL INCLUDE THE FOLLOWING INFORMATION, AT A MINIMUM:
   a. KEY ELEVATIONS/LOCATIONS OF ALL SANITARY SEWER STRUCTURES, INCLUDING, BUT NOT LIMITED TO MANHOLE RIMS, CONNECTING PIPE INVERTS, BOTTOM/TOP OF WET WELL, COMPOUND AREA, ETC
   b. SANITARY SEWER PIPE SIZE, MATERIALS, LOCATIONS, ELEVATIONS, LENGTHS, AND SLOPES
   c. SANITARY SEWER SERVICE LATERALS PIPE SIZE, MATERIALS, LOCATIONS, ELEVATIONS, LENGTHS, AND SLOPES
   d. CLEANOUT PIPE SIZE, LOCATIONS, AND ELEVATIONS
7. CONSTRUCTION 'AS-BUILTS' FOR DRAINAGE INSTALLATIONS SHALL INCLUDE THE FOLLOWING INFORMATION, AT A MINIMUM:
   a. KEY ELEVATIONS/LOCATIONS OF ALL DRAINAGE STRUCTURES, INCLUDING, BUT NOT LIMITED TO INLET GRATES, MANHOLE RIMS, CONNECTING PIPE INVERTS, BOTTOM/TOP OF STRUCTURE, ETC
   b. KEY ELEVATIONS/LOCATIONS/MATERIALS OF ALL STORMWATER MANAGEMENT DEVICES, INCLUDING, BUT NOT LIMITED TO EXFILTRATION TRENCH, POLLUTION RETARDANT BAFFLES, WEIRS, WELL BAFFLE WALLS, WELL TOP OF CASING, RETENTION PONDS, DETENTION PONDS, BERMS, SWALES, DITCHES, FLUMES, ETC
   c. DRAINAGE PIPE SIZE, MATERIALS, LOCATIONS, ELEVATIONS, LENGTHS, AND SLOPES
8. CONSTRUCTION 'AS-BUILTS' FOR PAVEMENT BASE MATERIAL INSTALLATIONS ('ROCK') SHALL INCLUDE THE FOLLOWING INFORMATION, AT A MINIMUM:
   a. ELEVATIONS SUFFICIENT TO DETERMINE SLOPES
   b. ELEVATIONS AT ALL HIGH POINTS, LOW POINTS, CORNER POINTS, CONCRETE TRANSITIONS, AT ENOUGH INTERMEDIATE POINTS TO CONFIRM SLOPE CONSISTENCY.
   c. SURFACE ELEVATIONS/LOCATIONS OF ALL DRAINAGE STRUCTURES, INCLUDING, BUT NOT LIMITED TO INLET GRATES AND MANHOLE RIMS
9. UPON COMPLETION OF CONSTRUCTION, AND PRIOR TO FINAL PAYMENT, THE CONTRACTOR SHALL SUBMIT TO BARDEZ, LLC AN 'AS-BUILT' COPY OF THE CONTRACT DRAWINGS ACCEPTED/APPROVED FOR OPERATIONS BY THE APPROPRIATE PERMITTING AUTHORITY FOR OPERATIONS. IN ADDITION, THE CONTRACTOR SHALL PROVIDE BARDEZ, LLC WITH A COPY OF THE ELECTRONIC FILES USED TO PRODUCE THE ACCEPTED/APPROVED 'AS-BUILT' DRAWINGS, IN A FORMAT COMPATIBLE FOR USE WITH THE MOST CURRENT VERSION OF AUTODESK AUTOCAD/CIVIL3D

REVISIONS

REV	DATE	DESCRIPTION
1	---	--- ---
2	---	--- ---
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4	---	--- ---
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7	---	--- ---
8	---	--- ---
9	---	--- ---
10	---	--- ---

BARDEZ
5048 POINTE EMERALD LANE; BOCA RATON, FL 33486
(0) 561-465-5949 | (e) nbarnett@bardezco.com

PROJECT DESCRIPTION

VILLA RICHEY

SITE ADDRESS: 4206/4210 MADISON ST.
NEW PORT RICHEY, FL
PROPERTY ID: 16-26-16-0010-06100-0010
PREPARED FOR: VILLA RICHEY, LLC

E-CERTIFICATION

No. 72006

Digitally signed by NOEL BARNETT
Date: 2024.03.26 16:39:43 -04'00'

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY NOEL A. BARNETT, PE ON THE DATE ADJACENT TO THE SEAL.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

CERTIFICATION

DATE: 03-26-2024

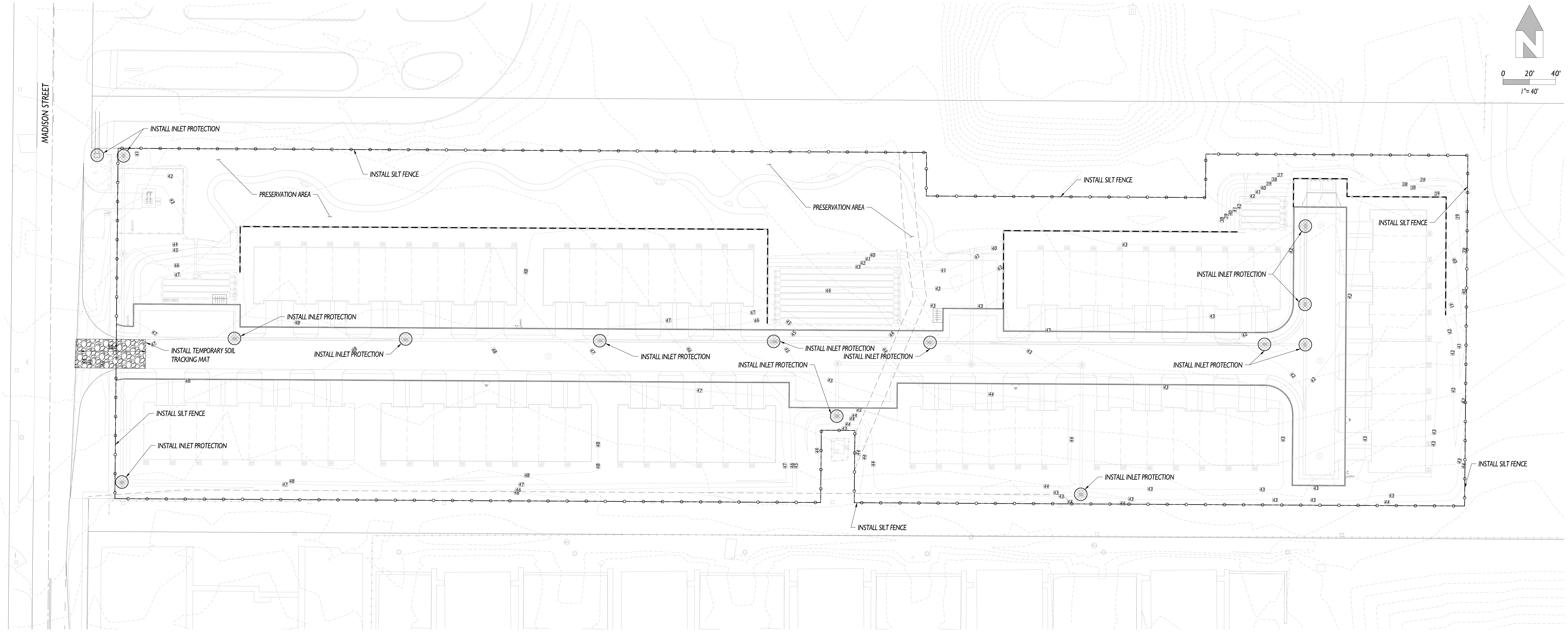
NOEL BARNETT
PROFESSIONAL ENGINEER
FL LICENSE NO. 72006
FL BUSINESS C.A. NO.: 32223

SHEET TITLE

COVER SHEET

SHEET ID

C-1.0



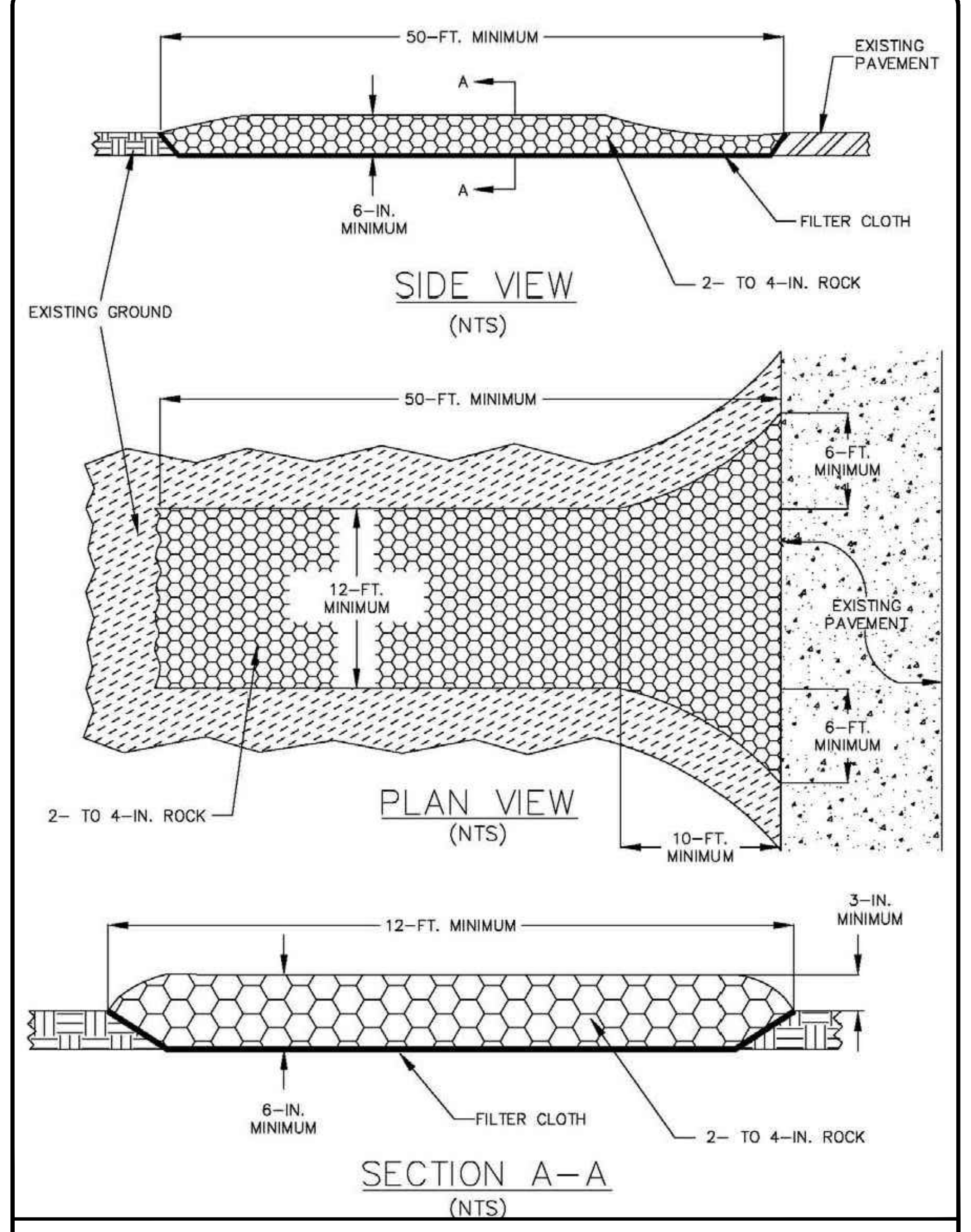
CONSTRUCTION SCHEDULING

PHASE	BEST MANAGEMENT PRACTICE
PRE-DISTURBANCE & SITE ACCESS	• INSTALL SEDIMENT CONTROLS DOWNGRADIENT OF ACCESS POINT (ON PAVED STREETS THIS MAY CONSIST OF INLET PROTECTION). • ESTABLISH VEHICLE TRACKING CONTROL AT ENTRANCES TO PAVED STREETS. FENCE AS NEEDED. • USE CONSTRUCTION FENCING TO DEFINE THE BOUNDARIES OF THE PROJECT AND LIMIT ACCESS TO AREAS OF THE SITE THAT ARE NOT TO BE DISTURBED.
SITE CLEARING & GRUBBING	• INSTALL PERIMETER CONTROLS AS NEEDED ON DOWNGRADIENT PERIMETER OF SITE (SILT FENCE, WATTLES, ETC). • LIMIT DISTURBANCE TO THOSE AREAS PLANNED FOR DISTURBANCE AND PROTECT UNDISTURBED AREAS WITHIN THE SITE (CONSTRUCTION FENCE, FLAGGING, ETC). • CREATE STABILIZED STAGING AREA. • LOCATE PORTABLE TOILETS ON FLAT SURFACES AWAY FROM DRAINAGE PATHS. STAKE IN AREAS SUSCEPTIBLE TO HIGH WINDS. • CONSTRUCT CONCRETE WASHOUT AREA AND PROVIDE SIGNAGE. • ESTABLISH WASTE DISPOSAL AREAS. • CREATE DIRT PERIMETER BERMS AND/OR BRUSH BARRIERS DURING GRUBBING AND CLEARING. • SEPARATE AND STOCKPILE TOPSOIL, LEAVE ROUGHENED AND/OR COVER. • PROTECT STOCKPILES WITH PERIMETER CONTROL BMPS. STOCKPILES SHOULD BE LOCATED AWAY FROM DRAINAGE PATHS AND SHOULD BE ACCESSED FROM THE UPGRADIENT SIDE SO THAT PERIMETER CONTROLS CAN REMAIN IN PLACE ON THE DOWNGRADIENT SIDE. USE EROSION CONTROL BLANKETS, TEMPORARY SEEDING, AND/OR MULCH FOR STOCKPILES THAT WILL BE INACTIVE FOR AN EXTENDED PERIOD. • LEAVE DISTURBED AREA OF SITE IN A ROUGHENED CONDITION TO LIMIT EROSION. CONSIDER TEMPORARY REVEGETATION FOR AREAS OF THE SITE THAT HAVE BEEN DISTURBED BUT THAT WILL BE INACTIVE FOR AN EXTENDED PERIOD. • WATER TO MINIMIZE DUST BUT NOT TO THE POINT THAT WATERING CREATES RUNOFF.
UTILITY/STORM INSTALLATION	• CLOSE TRENCH AS SOON AS POSSIBLE (GENERALLY AT THE END OF THE DAY). • USE ROUGH-CUT STREET CONTROL OR APPLY ROAD BASE FOR STREETS THAT WILL NOT BE PROMPTLY PAVED. • PROVIDE INLET PROTECTION AS STREETS ARE PAVED AND INLETS ARE CONSTRUCTED. • PROTECT AND REPAIR BMPS, AS NECESSARY. • PERFORM STREET SWEEPING AS NEEDED.
FINAL GRADING	• REMOVE EXCESS OR WASTE MATERIALS. • REMOVE STORED MATERIALS.
FINAL STABILIZATION	• SEED AND MULCH/TACKIFY. • SEED AND INSTALL BLANKETS ON STEEP SLOPES. • REMOVE ALL TEMPORARY BMPS WHEN SITE HAS REACHED FINAL STABILIZATION.

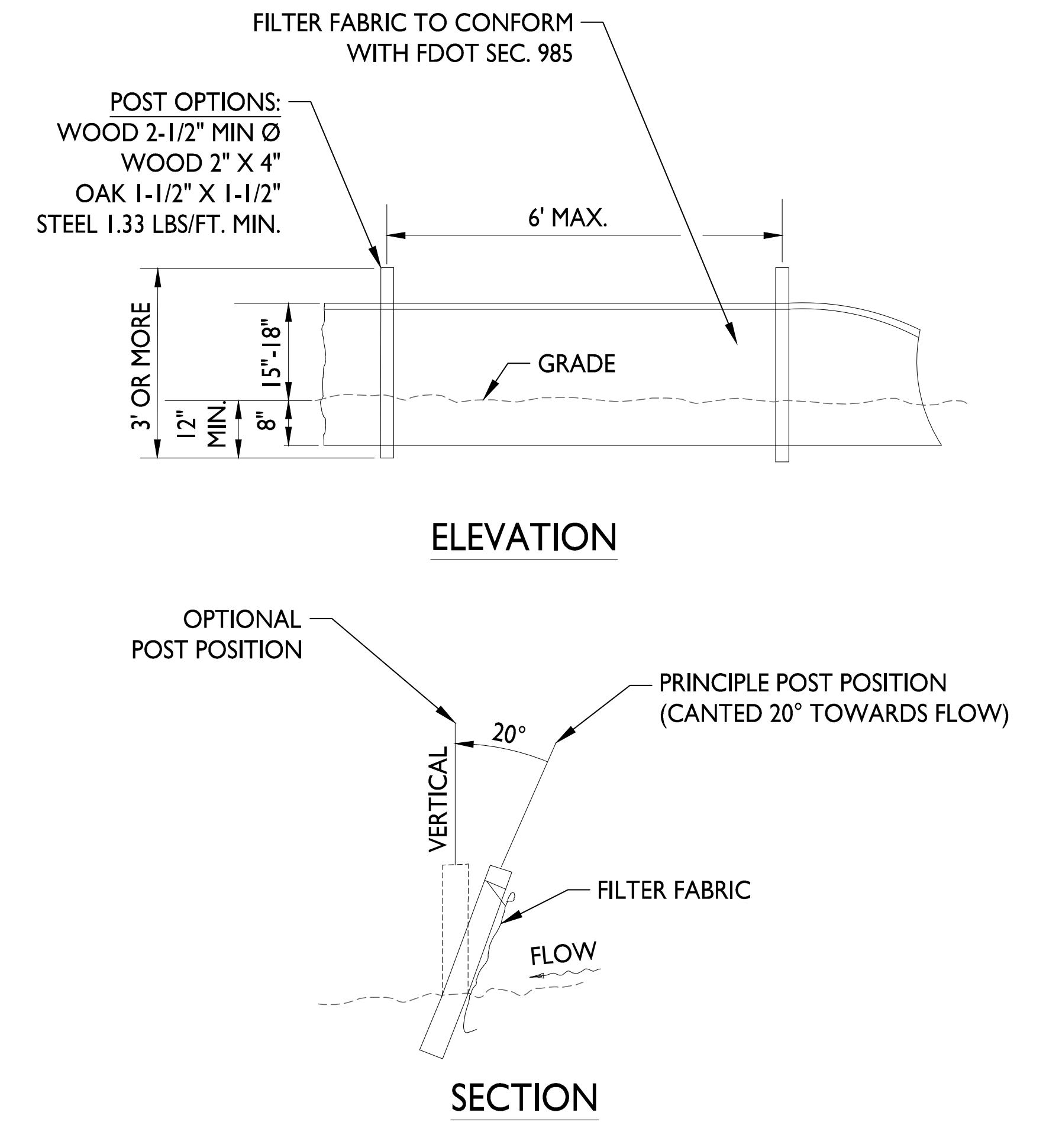
WATER CONSERVATION PRACTICES

BEST MANAGEMENT PRACTICE

- KEEP WATER EQUIPMENT IN GOOD WORKING CONDITION.
- STABILIZE WATER TRUCK FILLING AREA.
- REPAIR WATER LEAKS PROMPTLY.
- WASHING OF VEHICLES AND EQUIPMENT ON THE CONSTRUCTION SITE IS DISCOURAGED.
- AVOID USING WATER TO CLEAN CONSTRUCTION AREAS. IF WATER MUST BE USED FOR CLEANING OR SURFACE PREPARATION, SURFACE SHOULD BE SWEPT AND VACUUMED FIRST TO REMOVE DIRT. THIS WILL MINIMIZE AMOUNT OF WATER REQUIRED.
- DIRECT CONSTRUCTION WATER RUNOFF TO AREAS WHERE IT CAN SOAK INTO THE GROUND OR BE COLLECTED AND REUSED.
- AUTHORIZED NON-STORMWATER DISCHARGES TO THE STORM DRAIN SYSTEM, CHANNELS, OR RECEIVING WATERS ARE ACCEPTABLE WITH THE IMPLEMENTATION OF APPROPRIATE BMPS.
- LOCK WATER TANK VALVES TO PREVENT UNAUTHORIZED USE



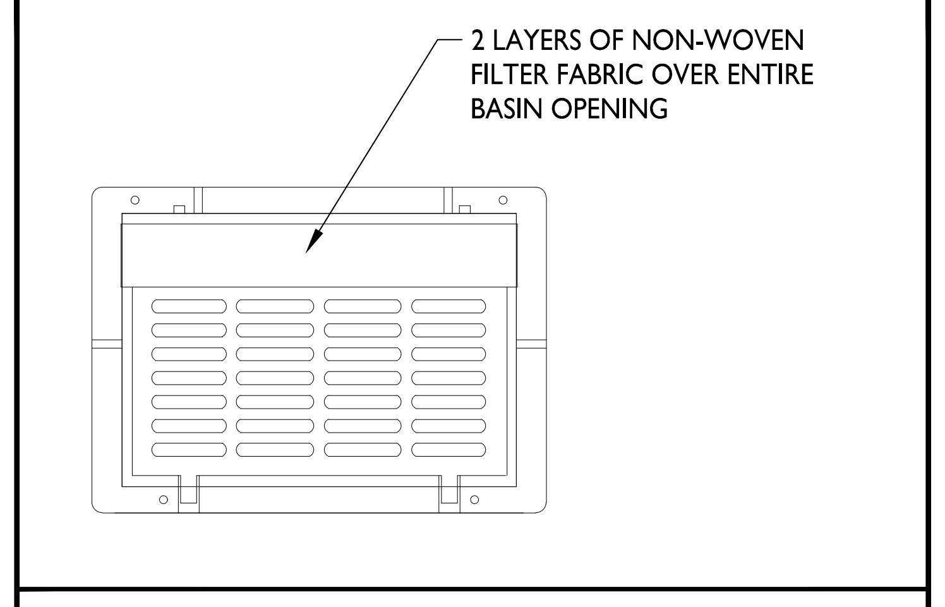
TEMPORARY SOIL TRACKING MAT DETAIL (NTS)



SILT FENCE DETAIL (NTS)

SYMBOL LEGEND

—o—o—	INSTALL SILT FENCE (SEE DETAIL)
○○○○	GRAVEL CHECK DAM
▨	SOIL TRACKING MAT
◎	INLET PROTECTION


2 LAYERS OF NON-WOVEN FILTER FABRIC OVER ENTIRE BASIN OPENING

INLET PROTECTION DETAIL (NTS)

VERTICAL DATUM CONVERSION NOTE

ELEVATIONS SHOWN ON THIS PLAN REFERENCE THE NAVD-88 VERTICAL DATUM (UNLESS OTHERWISE NOTED). THE FOLLOWING CONVERSION FACTOR SHOULD BE USED TO CONVERT ELEVATIONS SHOWN ON THIS PLAN FROM THE NAVD-88 DATUM TO THE NGVD-29 DATUM:

ADJUSTED PLAN ELEVATION (NGVD-29) = PLAN ELEVATION (NAVD-88) + 0.843

FOR EXAMPLE, A FINISHED FLOOR ELEVATION OF 12.50 NAVD-88, AS SHOWN ON THIS PLAN, SHOULD BE CONVERTED AS FOLLOWS:

ADJUSTED PLAN ELEVATION (NGVD-29) = PLAN ELEVATION (NAVD-88) + 0.843
ADJUSTED PLAN ELEVATION (NGVD-29) = 12.50 + 0.843
ADJUSTED PLAN ELEVATION (NGVD-29) = 13.343 NAVD-29

GENERAL NOTES

1. PRIOR TO THE START OF THE CLEARING AND GRUBBING, OR ANY SOIL DISTURBANCE CONTACT PASCO COUNTY STORMWATER MANAGEMENT AT (727) 834-3611 FOR A SOIL EROSION AND SEDIMENT CONTROL, PRE-INSPECTION MEETING.
2. THE CONTRACTOR MUST PROVIDE A DEWATERING PLAN, IF APPLICABLE, TO PASCO COUNTY ENGINEERING INSPECTIONS DEPARTMENT AT (727) 834-3670 FOR REVIEW PRIOR TO THE EROSION CONTROL MEASURES PRE-INSPECTION MEETING.

REVISIONS

REV	DATE	DESCRIPTION
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BARDEZ

5048 POINTE EMERALD LANE; BOCA RATON, FL 33486
(0) 561-465-5949 | (e) nbarnett@bardezco.com

PROJECT DESCRIPTION

VILLA RICHEY

SITE ADDRESS: 4206/4210 MADISON ST.
NEW PORT RICHEY, FL
PROPERTY ID: 16-26-16-0010-06100-0010
PREPARED FOR: VILLA RICHEY, LLC

E-CERTIFICATION

NOEL A. BARNETT
No. 72006

Digitally signed by NOEL BARNETT
Date: 2024.03.26 16:40:01 -04'00'

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY NOEL A. BARNETT, PE ON THE DATE ADJACENT TO THE SEAL.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

CERTIFICATION

DATE: 03-26-2024

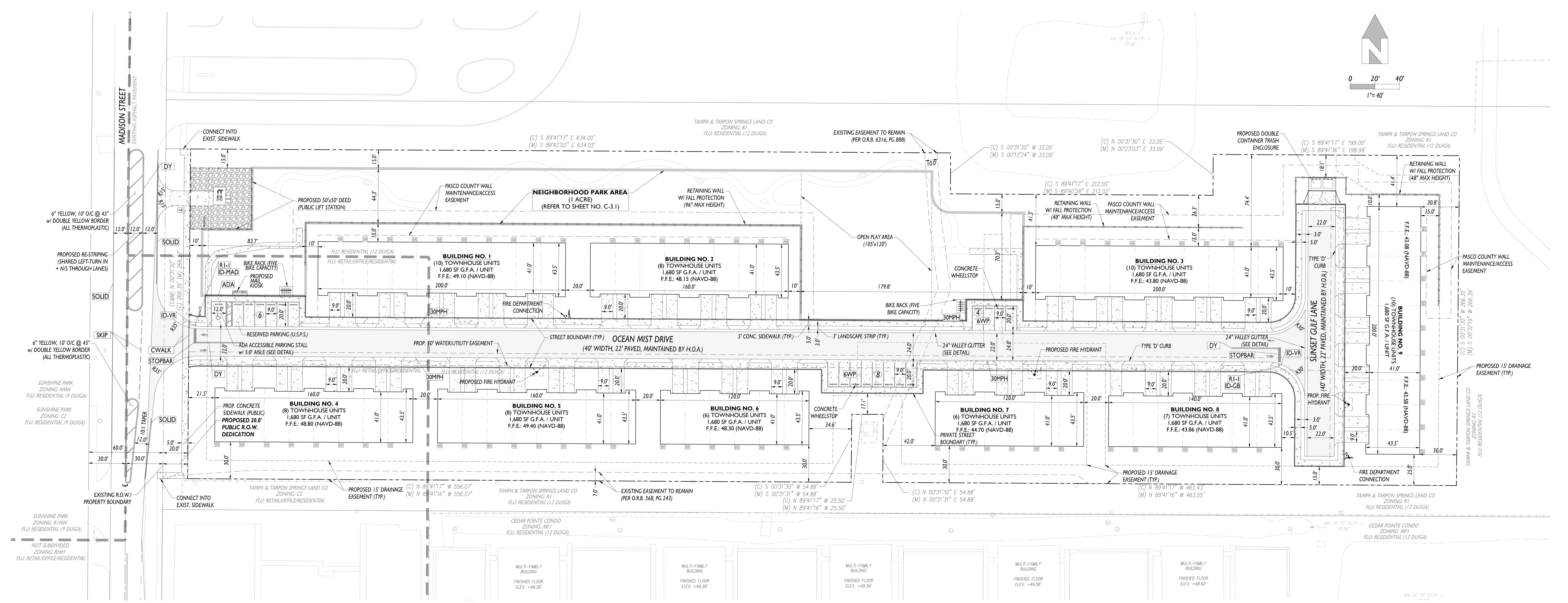
NOEL BARNETT
PROFESSIONAL ENGINEER
FL LICENSE NO. 72006
FL BUSINESS C.A. NO.: 32223

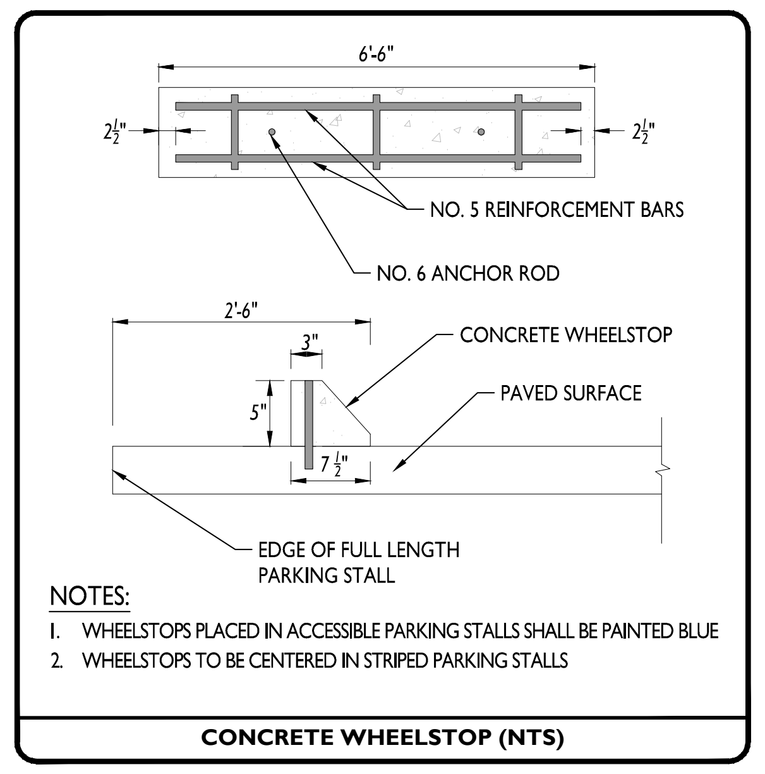
SHEET TITLE

SEDIMENT AND EROSION CONTROL PLAN

SHEET ID

C-2.0

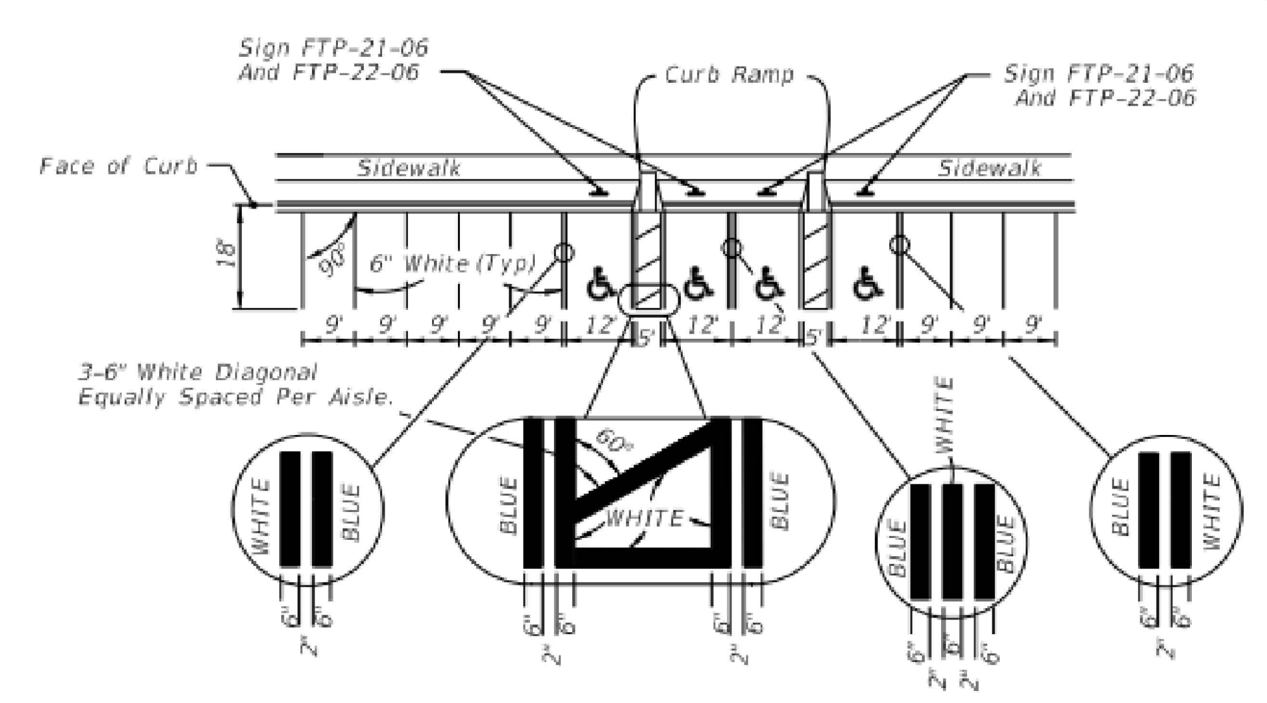

MADISON STREET
EXISTING ASPHALT PAVEMENT
CONNECT INTO EXIST. SIDEWALK
PROPOSED 50'x50' DEED (PUBLIC LIFT STATION)
PASCO COUNTY WALL MAINTENANCE/ACCESS EASEMENT
NEIGHBORHOOD PARK AREA (1 ACRE) (REFER TO SHEET NO. C-3.1)
RETAINING WALL W/ FALL PROTECTION (96" MAX HEIGHT)
OPEN PLAY AREA (105'x120')
EXISTING EASEMENT TO REMAIN (PER O.R.B. 6316, PG 888)
PROPOSED DOUBLE CONTAINER TRASH ENCLOSURE
RETAINING WALL W/ FALL PROTECTION (48" MAX HEIGHT)
TAMPA & TARPON SPRINGS LAND CO ZONING: R1 FLU: RESIDENTIAL (12 DU/GA)
(C) S 89°41'17" E 634.00'
(M) S 89°42'02" E 634.02'
BUILDING NO. 1 (10) TOWNHOUSE UNITS 1,680 SF G.F.A. / UNIT F.F.E.: 49.10 (NAVD-88)
BUILDING NO. 2 (8) TOWNHOUSE UNITS 1,680 SF G.F.A. / UNIT F.F.E.: 48.15 (NAVD-88)
BUILDING NO. 3 (10) TOWNHOUSE UNITS 1,680 SF G.F.A. / UNIT F.F.E.: 43.80 (NAVD-88)
BUILDING NO. 4 (8) TOWNHOUSE UNITS 1,680 SF G.F.A. / UNIT F.F.E.: 48.80 (NAVD-88)
BUILDING NO. 5 (8) TOWNHOUSE UNITS 1,680 SF G.F.A. / UNIT F.F.E.: 49.40 (NAVD-88)
BUILDING NO. 6 (6) TOWNHOUSE UNITS 1,680 SF G.F.A. / UNIT F.F.E.: 48.30 (NAVD-88)
BUILDING NO. 7 (6) TOWNHOUSE UNITS 1,680 SF G.F.A. / UNIT F.F.E.: 44.70 (NAVD-88)
BUILDING NO. 8 (7) TOWNHOUSE UNITS 1,680 SF G.F.A. / UNIT F.F.E.: 43.86 (NAVD-88)
BUILDING NO. 9 (10) TOWNHOUSE UNITS 1,680 SF G.F.A. / UNIT
OCEAN MIST DRIVE (40' WIDTH, 22' PAVED, MAINTAINED BY H.O.A.)
SUNSET GULF LANE (40' WIDTH, 22' PAVED, MAINTAINED BY H.O.A.)
BIKE RACK (FIVE BIKE CAPACITY)
PROPOSED MAIL KIOSK
RESERVED PARKING (U.S.P.S.)
ADA ACCESSIBLE PARKING STALL w/ 5.0' AISLE (SEE DETAIL)
FIRE DEPARTMENT CONNECTION
STREET BOUNDARY (TYP.)
PROP. 10' WATER/UTILITY EASEMENT
5' CONC. SIDEWALK (TYP.)
3' LANDSCAPE STRIP (TYP.)
24" VALLEY GUTTER (SEE DETAIL)
TYPE 'D' CURB
PROPOSED FIRE HYDRANT
CONCRETE WHEELSTOP
PROP. CONCRETE SIDEWALK (PUBLIC)
PROPOSED 20.0' PUBLIC R.O.W. DEDICATION
PROPOSED 15' DRAINAGE EASEMENT (TYP.)
EXISTING EASEMENT TO REMAIN (PER O.R.B. 368, PG 243)
PRIVATE STREET BOUNDARY (TYP.)
PASCO COUNTY WALL MAINTENANCE/ACCESS EASEMENT
6" YELLOW, 10' O/C @ 45° w/ DOUBLE YELLOW BORDER (ALL THERMOPLASTIC)
PROPOSED RE-STRIPING (SHARED LEFT-TURN IN + N/S THROUGH LANES)
EXISTING R.O.W./ PROPERTY BOUNDARY
SUNSHINE PARK ZONING: RMH FLU: RESIDENTIAL (9 DU/GA)
CEDAR POINTE CONDO ZONING: MF1 FLU: RESIDENTIAL (12 DU/GA)
MULTI-FAMILY BUILDING FINISHED FLOOR ELEV. =49.39'
MULTI-FAMILY BUILDING FINISHED FLOOR ELEV. =48.62'
DY
SOLID
SKIP
CWALK
STOPBAR
ID-VR
ID-MAD
ID-GB
R1-1
ADA
30MPH
6WP
N
0 20' 40'
1"=40'



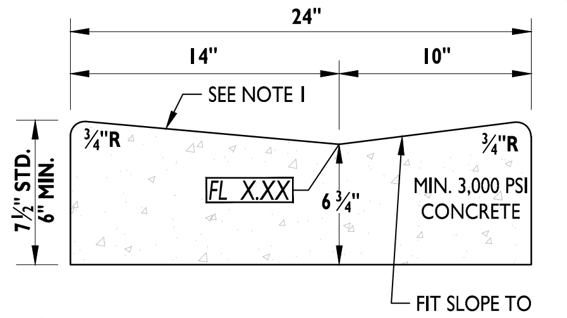
NOTES:

1. WHEELSTOPS PLACED IN ACCESSIBLE PARKING STALLS SHALL BE PAINTED BLUE
2. WHEELSTOPS TO BE CENTERED IN STRIPED PARKING STALLS

CONCRETE WHEELSTOP (NTS)


Sign FTP-21-06 And FTP-22-06
Curb Ramp
Sign FTP-21-06 And FTP-22-06
Face of Curb
Sidewalk
Sidewalk
6" White (Typ)
3'-6" White Diagonal Equally Spaced Per Aisle
WHITE
BLUE
WHITE
BLUE

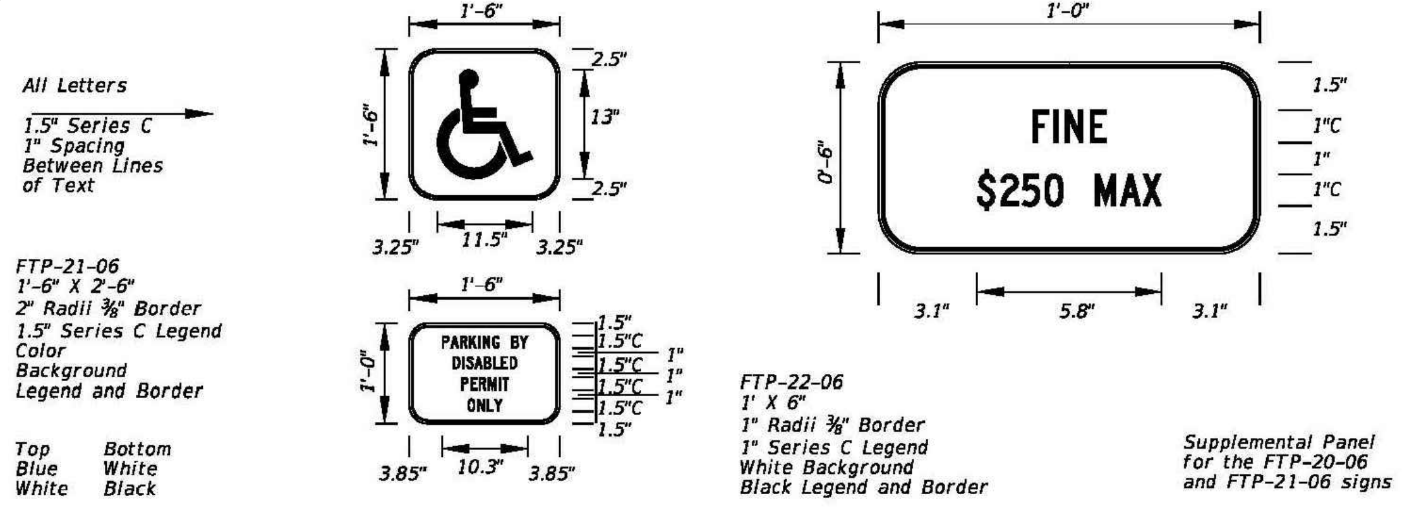
ACCESSIBLE PARKING STALL AND AISLE STRIPING DETAIL (NTS)



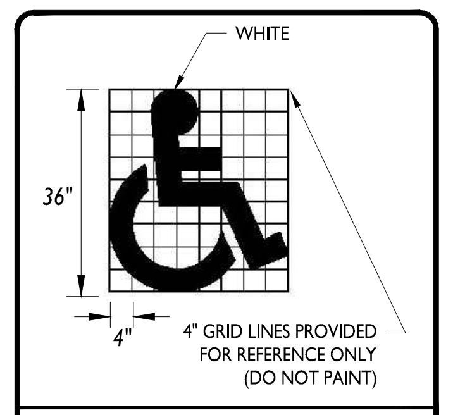
NOTES:

1. WHEN USED ON THE HIGH SIDE OF ROADWAYS, MATCH THE CROSS SLOPE OF THE GUTTER TO THE CROSS SLOPE OF ADJACENT PAVEMENT. THE THICKNESS OF THE LIP IS 6", UNLESS OTHERWISE SHOWN ON PLANS.

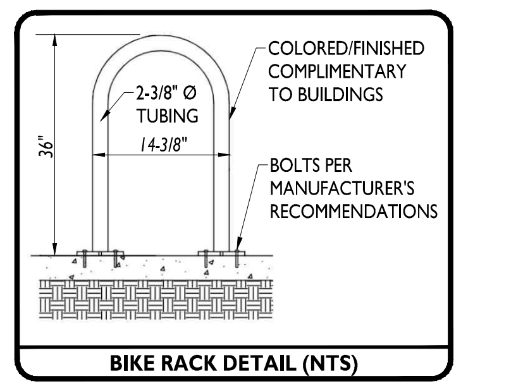
24" VALLEY GUTTER (NTS)



FTP-21-06 W/ FTP-22-06 ACCESSIBLE PARKING SIGNS (NTS)



ADA SYMBOL (NTS)


COLORED/FINISHED COMPLIMENTARY TO BUILDINGS
2-3/8" Ø TUBING
14-3/8"
BOLTS PER MANUFACTURER'S RECOMMENDATIONS

BIKE RACK DETAIL (NTS)

LEGAL DESCRIPTION

THE NORTH 266.35 FEET OF THE SOUTH 291.35 FEET OF THE WEST 1,075.00 FEET OF TRACT 61 IN SECTION 16, TOWNSHIP 26 SOUTH, RANGE 16 EAST, TAMPA - TARPON SPRINGS LAND COMPANY, ACCORDING TO THE MAP OR PLAT THEREOF AS RECORDED IN PLAT BOOK 1, PAGES 68 - 70, INCLUSIVE, OF THE PUBLIC RECORDS OF PASCO COUNTY, FLORIDA; LESS AND EXCEPT RIGHT-OF-WAY FOR MADISON AVENUE; ALSO LESS THE NORTH 54.88 FEET OF THE SOUTH 79.88 FEET OF THE EAST 25.50 FEET OF THE WEST 611.57 FEET AND THE NORTH 33.05 FEET OF THE SOUTH 291.35 FEET OF THE EAST 212.00 FEET OF THE WEST 876.00 FEET OF SAID TRACT 61.

RECORDED IN OFFICIAL RECORDS BOOK 10020, PAGE 1688 OF THE PUBLIC RECORDS OF PASCO COUNTY, FLORIDA.

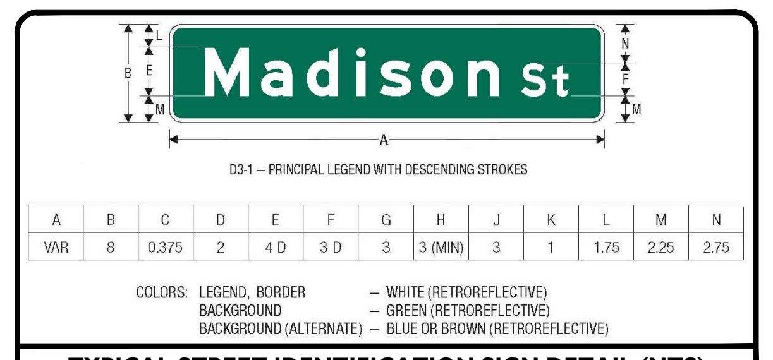
TOTAL EXISTING LAND AREA: 269,969 SF, 6.20 AC

STANDARD FIRE PROTECTION NOTES

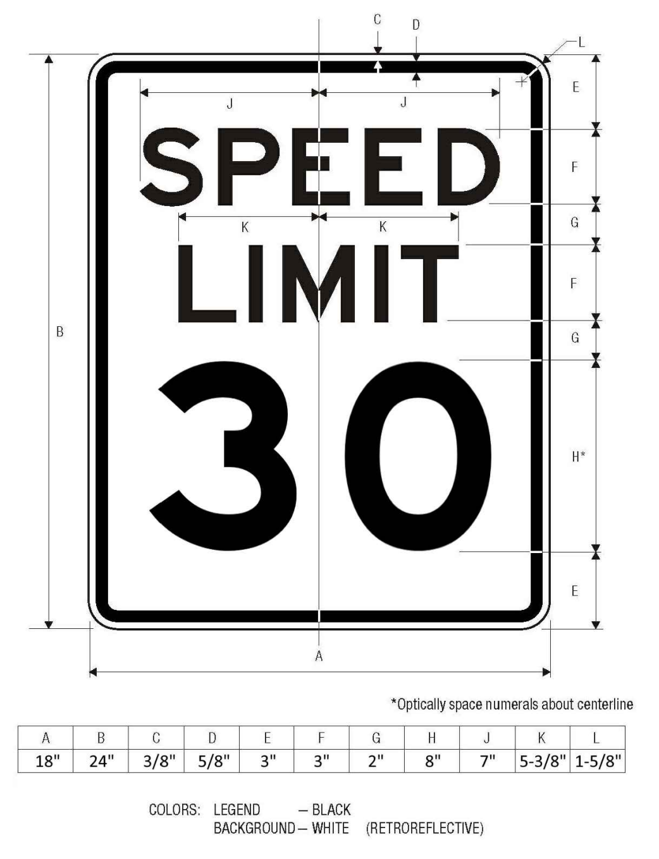
1. ALL PROJECTS MUST COMPLY WITH PASCO COUNTY FIRE HYDRANT ORDINANCE NO. 46-51.
2. FIRE HYDRANTS SHALL BE INSTALLED AND IN SERVICE PRIOR TO THE ACCUMULATION OF COMBUSTIBLES.
3. PER THE NATIONAL FIRE PROTECTION ASSOCIATION, NFPA-1, 16.4.3.1.3: WHERE UNDERGROUND WATER MAINS AND HYDRANTS ARE TO BE PROVIDED, THEY SHALL BE INSTALLED, COMPLETED, AND IN SERVICE PRIOR TO CONSTRUCTION WORK.
4. PER NFPA-1, 18.3.4.1: CLEARANCES OF 7½ FEET IN FRONT OF AND TO THE SIDES OF THE FIRE HYDRANT WITH A 4-FOOT CLEARANCE TO THE REAR MUST BE MAINTAINED AT ALL TIMES.
5. GATED ENTRIES REQUIRE A SIREN OPERATING SYSTEM OR A 3M OPTICOM SYSTEM FOR EMERGENCY ACCESS.

GENERAL NOTES

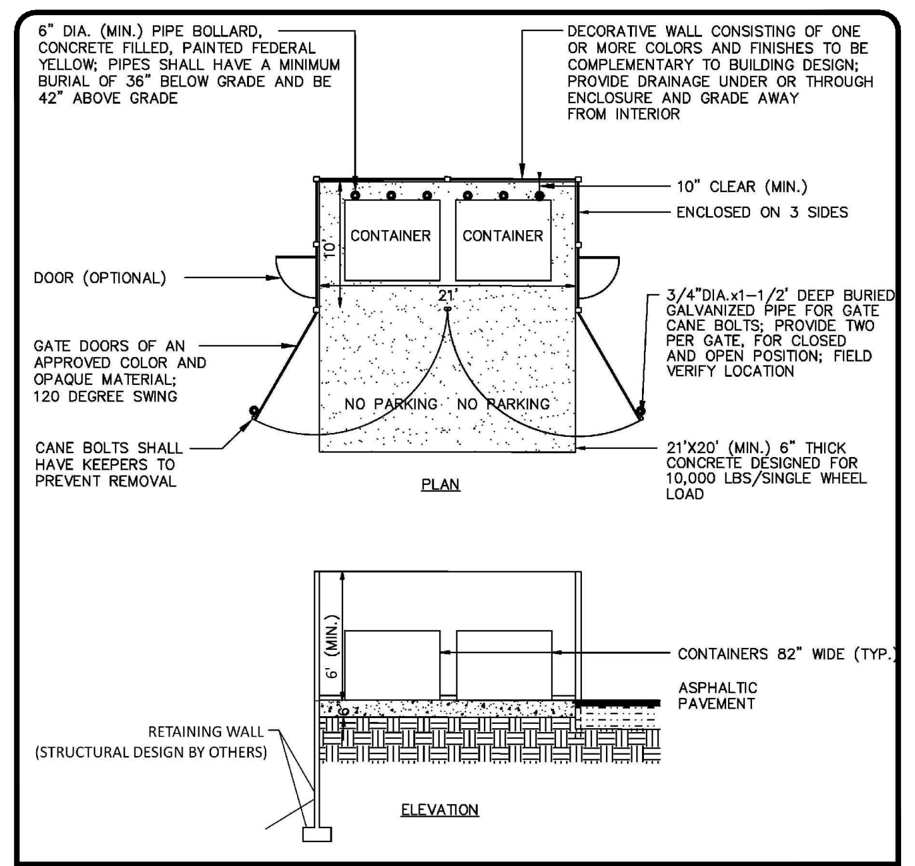
1. IF DURING CONSTRUCTION ACTIVITIES ANY EVIDENCE OF THE PRESENCE OF STATE OR FEDERALLY PROTECTED PLANT AND/OR ANIMAL SPECIES IS DISCOVERED, PASCO COUNTY AND APPLICABLE AGENCIES SHALL BE NOTIFIED WITHIN TWO WORKING DAYS OF THE PLANT AND/OR ANIMAL SPECIES FOUND ON THE SITE. ALL WORK IN THE AFFECTED AREA SHALL COME TO AN IMMEDIATE STOP UNTIL ALL PERTINENT PERMITS HAVE BEEN OBTAINED, AGENCY WRITTEN AUTHORIZATION TO COMMENCE ACTIVITIES HAS BEEN GIVEN, OR UNLESS COMPLIANCE WITH STATE AND FEDERAL GUIDELINES CAN BE DEMONSTRATED.
2. IF DURING CONSTRUCTION ACTIVITIES ANY EVIDENCE OF HISTORIC RESOURCES, INCLUDING BUT NOT LIMITED TO ABORIGINAL OR HISTORIC POTTERY, PREHISTORIC STONE TOOLS, BONE OR SHELL TOOLS, HISTORIC TRASH PITS, OR HISTORIC BUILDING FOUNDATION, ARE DISCOVERED, WORK SHALL COME TO AN IMMEDIATE STOP AND THE FLORIDA DEPARTMENT OF HISTORIC RESOURCES (STATE HISTORIC PRESERVATION OFFICER) AND PASCO COUNTY SHALL BE NOTIFIED WITHIN TWO WORKING DAYS OF THE RESOURCES FOUND ON THE SITE.
3. THIS SITE CONTAINS NO REGISTERED CULTURAL RESOURCES.
4. NO SIDE ENTRANCES ARE ALLOWED ON END UNITS


Madison St
D3-1 – PRINCIPAL LEGEND WITH DESCENDING STROKES
COLORS: LEGEND, BORDER – WHITE (RETROREFLECTIVE)
BACKGROUND – GREEN (RETROREFLECTIVE)
BACKGROUND (ALTERNATE) – BLUE OR BROWN (RETROREFLECTIVE)

TYPICAL STREET IDENTIFICATION SIGN DETAIL (NTS)


SPEED LIMIT 30
*Optically space numerals about centerline
COLORS: LEGEND – BLACK
BACKGROUND – WHITE (RETROREFLECTIVE)

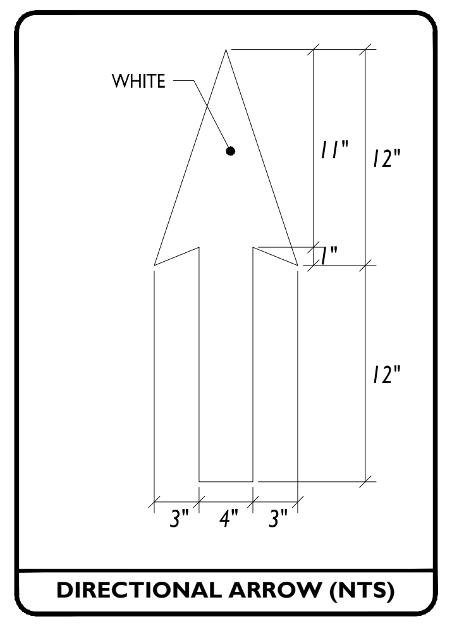
R2-3 '30 MPH' SIGN DETAIL (NTS)


6" DIA. (MIN.) PIPE BOLLARD, CONCRETE FILLED, PAINTED FEDERAL YELLOW. PIPES SHALL HAVE A MINIMUM BURIAL OF 36" BELOW GRADE AND BE 42" ABOVE GRADE
DECORATIVE WALL CONSISTING OF ONE OR MORE COLORS AND FINISHES TO BE COMPLEMENTARY TO BUILDING DESIGN. PROVIDE DRAINAGE UNDER OR THROUGH ENCLOSURE AND GRADE AWAY FROM INTERIOR
10' CLEAR (MIN.) ENCLOSED ON 3 SIDES
DOOR (OPTIONAL)
GATE DOORS OF AN APPROVED COLOR AND OPAQUE MATERIAL; 120 DEGREE SWING
CANE BOLTS SHALL HAVE KEEPERS TO PREVENT REMOVAL
CONTAINER
CONTAINER
NO PARKING
NO PARKING
3/4"DIA.x1-1/2" DEEP BURIED GALVANIZED PIPE FOR GATE CANE BOLTS; PROVIDE TWO PER GATE, FOR CLOSED AND OPEN POSITION; FIELD VERIFY LOCATION
21'X20' (MIN.) 6" THICK CONCRETE DESIGNED FOR 10,000 LBS/SINGLE WHEEL LOAD
PLAN
CONTAINERS 82" WIDE (TYP.)
ASPHALTIC PAVEMENT
RETAINING WALL (STRUCTURAL DESIGN BY OTHERS)
ELEVATION

TRASH ENCLOSURE DETAIL (NTS)

SYMBOL LEGEND

═	PROPOSED FDOT TYPE 'D' CURB
▨	PROPOSED CONCRETE (6" THICKNESS IN VEHICULAR AREAS, 4" THICKNESS IN NON-VEHICULAR AREAS)
▨	PROPOSED ASPHALT PAVEMENT
←	PROPOSED PAINTED DIRECTIONAL ARROW
▭	PROPOSED CONCRETE WHEELSTOP
⊥	PROPOSED TRAFFIC SIGN POST
⑤	PARKING STALL COUNTER
DY	(2) 6" YELLOW REFLECTIVE THERMO STRIPES w/ 4" GAP BETWEEN STRIPES
STOPBAR	24" WHITE REFLECTIVE THERMO STOP BAR
CWALK	CROSSWALK - 12" WHITE REFLECTIVE THERMO STRIPES @ 6 FT O/C
6WP	STANDARD PARKING STALL STRIPING 6" WHITE PAINT (20' DEPTH, 9' O/C)
SOLID	6" SOLID WHITE REFLECTIVE THERMO EDGE LINE
SKIP	6" YELLOW REFLECTIVE THERMO SKIP LINE (6' SOLID - SKIP 15')
30MPH	R2-3, '30 MPH' SIGN (SEE DETAIL, THIS SHEET)
R1-1	R1-1, 'STOP' SIGN (SEE DETAIL, THIS SHEET)
ADA	FTP-21-06 W/ FTP-22-06 ACCESSIBLE PARKING SIGNS (SEE DETAIL, THIS SHEET)
ID-MAD	'MADISON ST' STREET ID SIGNS - DOUBLE SIDED (SEE DETAIL, THIS SHEET)
ID-VR	'VILLA RICHEY WAY' STREET ID SIGNS - DOUBLE SIDED (SEE DETAIL, THIS SHEET)
ID-GB	'GULF BREEZE TERRACE' ID SIGNS - DOUBLE SIDED (SEE DETAIL, THIS SHEET)
♿	ADA SYMBOL (SEE DETAIL, THIS SHEET)
▾	PROPOSED FIRE HYDRANT



DIRECTIONAL ARROW (NTS)

PROPERTY INFORMATION

OWNER:	VILLA RICHEY LLC 4017 ORIOLE AVENUE PORT ORANGE, FL 32127
SITE ADDRESS:	4206/4210 MADISON STREET NEW PORT RICHEY, FL 34652
PARCEL ID:	16-26-0010-06100-0010
PRIOR APPLICATIONS:	RZ6376, 7/12/2005 CU14-30, 10/8/2014 SITEPLAN-2020-00159 PREAPP-2021-00408
JURISDICTION:	UNINCORPORATED PASCO COUNTY
CURRENT USE:	VACANT
PROPOSED USE:	MULTI-FAMILY RESIDENTIAL (73 UNITS)
ZONING:	MF-1(MULTIPLE-FAMILY MEDIUM DENSITY)
FLU:	RESIDENTIAL (12 DU/GA)
PROPERTY AREA:	CURRENT: 269,969 SF, 6.20 AC GROSS: 264,643 SF, 6.08 AC (*)
FLOOD ZONE:	FEMA FLOOD ZONE 'X' F.I.R.M. PANEL NO. 12101C0352G (06/05/2020)
EVACUATION ZONE:	ZONE 'D'

(*) - ACCOUNTS FOR MADISON ST. R/W DEDICATION (5,326 SF, 0.12 AC)

'MF-1' DEVELOPMENT REGULATIONS

STANDARD	REQUIRED	PROVIDED
MINIMUM LOT AREA	N/A	1,520 SF (***)
MINIMUM LOT WIDTH	N/A	20.0 FT (***)
MINIMUM LOT DEPTH	N/A	76.0 FT (***)
MAXIMUM GROSS DENSITY	12.0 UNITS / AC	12.0 UNITS / AC (*)
MAXIMUM BUILDING COVERAGE	40.0 %	23.1 % (**)
FRONT YARD SETBACK	20.0 FT	20.0 FT (***)
SIDE YARD SETBACK	10.0 FT	10.0 FT, MIN. (***)
REAR YARD SETBACK	15.0 FT	15.0 FT (***)
MINIMUM STRUCTURE SEPARATION	15.0 FT	20.0 FT
MAXIMUM BUILDING HEIGHT	3 STORIES | 45.0 FT	2/3 STORIES | ≤ 45.0 FT

(*) = NUMBER OF UNITS / SITE AREA = (73 UNITS / [264,969 SF x (1 AC / 43,560 SF)]
(**) = (ROOF AREA / SITE AREA) x 100% = (61,320 SF / 264,969 SF) x 100%
(***) = SEE 'CONCEPTUAL LOT PLAN', SHEET NO. C-3.1 FOR ADDITIONAL INFORMATION

OFF-STREET PARKING SUMMARY TABLE

OFFSTREET PARKING - SECTION 907.1.E.	REQUIRED	PROVIDED
1-3 BR: 2.0 PARKING SPACES / UNIT VISITOR PARKING: 0.25 PARKING SPACES / UNIT	RESIDENT PARKING: (73) 2/3-BR DWELLING UNITS = 73 UNITS x (2 SPACES / UNIT) = 146 PARKING SPACES GUEST PARKING: (73) DWELLING UNITS = 73 UNITS x (0.25 SPACES/UNIT) = 18 PARKING SPACES	RESIDENT PARKING: 1 GARAGE + 1 DRIVEWAY PARKING SPACE PROVIDED FOR EACH UNIT = 2 SPACES PER UNIT (TANDEM) = 73 UNITS x (2 SPACES / UNIT) = 146 SPACES PROVIDED GUEST PARKING: = 18 SURFACE PARKING SPACES

REVISIONS

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BARDEZ
5048 POINTE EMERALD LANE; BOCA RATON, FL 33486
(0) 561-465-5949 | (e) nbarnett@bardezco.com

PROJECT DESCRIPTION
VILLA RICHEY
SITE ADDRESS: 4206/4210 MADISON ST.
NEW PORT RICHEY, FL
PROPERTY ID: 16-26-0010-06100-0010
PREPARED FOR: VILLA RICHEY, LLC

E-CERTIFICATION

No. 72006

Digitally signed by NOEL BARNETT
Date: 2024.03.26 16:40:17 -04'00'

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CERTIFICATION

DATE: 03-26-2024

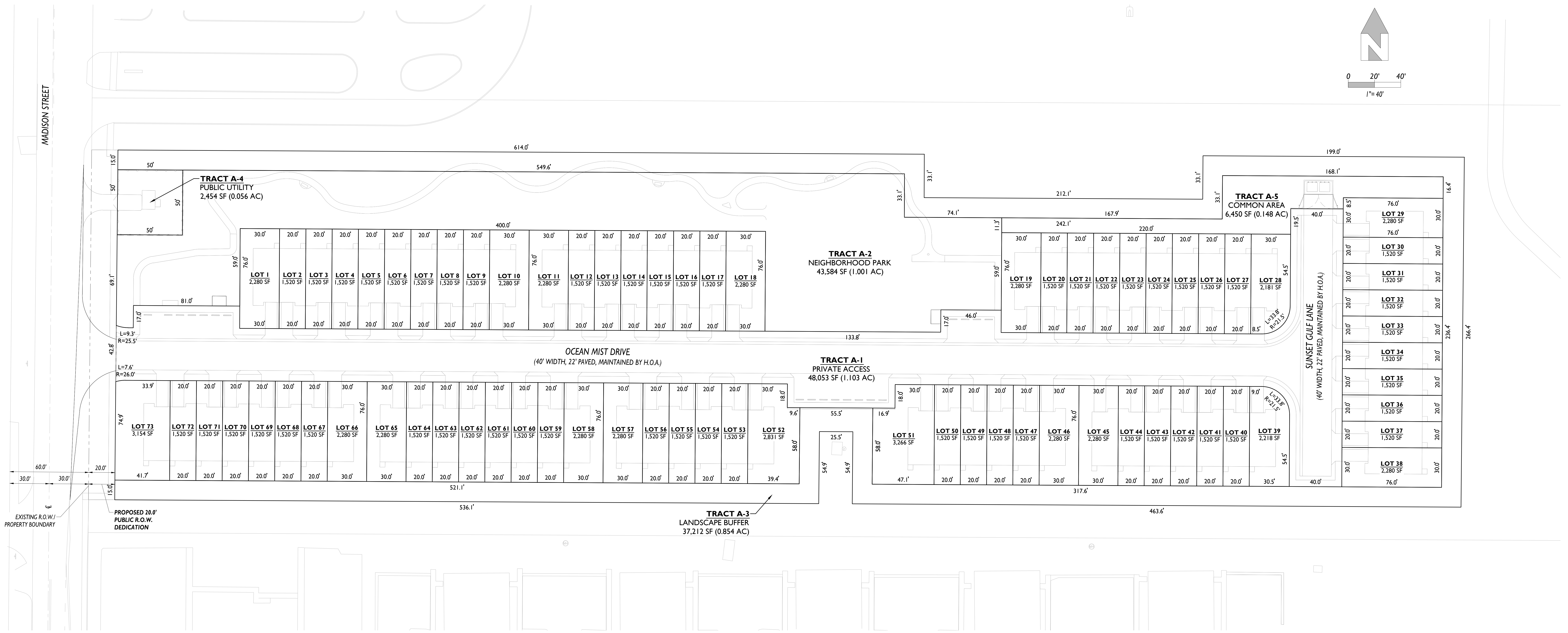
NOEL BARNETT
PROFESSIONAL ENGINEER
FL LICENSE NO. 72006
FL BUSINESS C.A. NO.: 32223

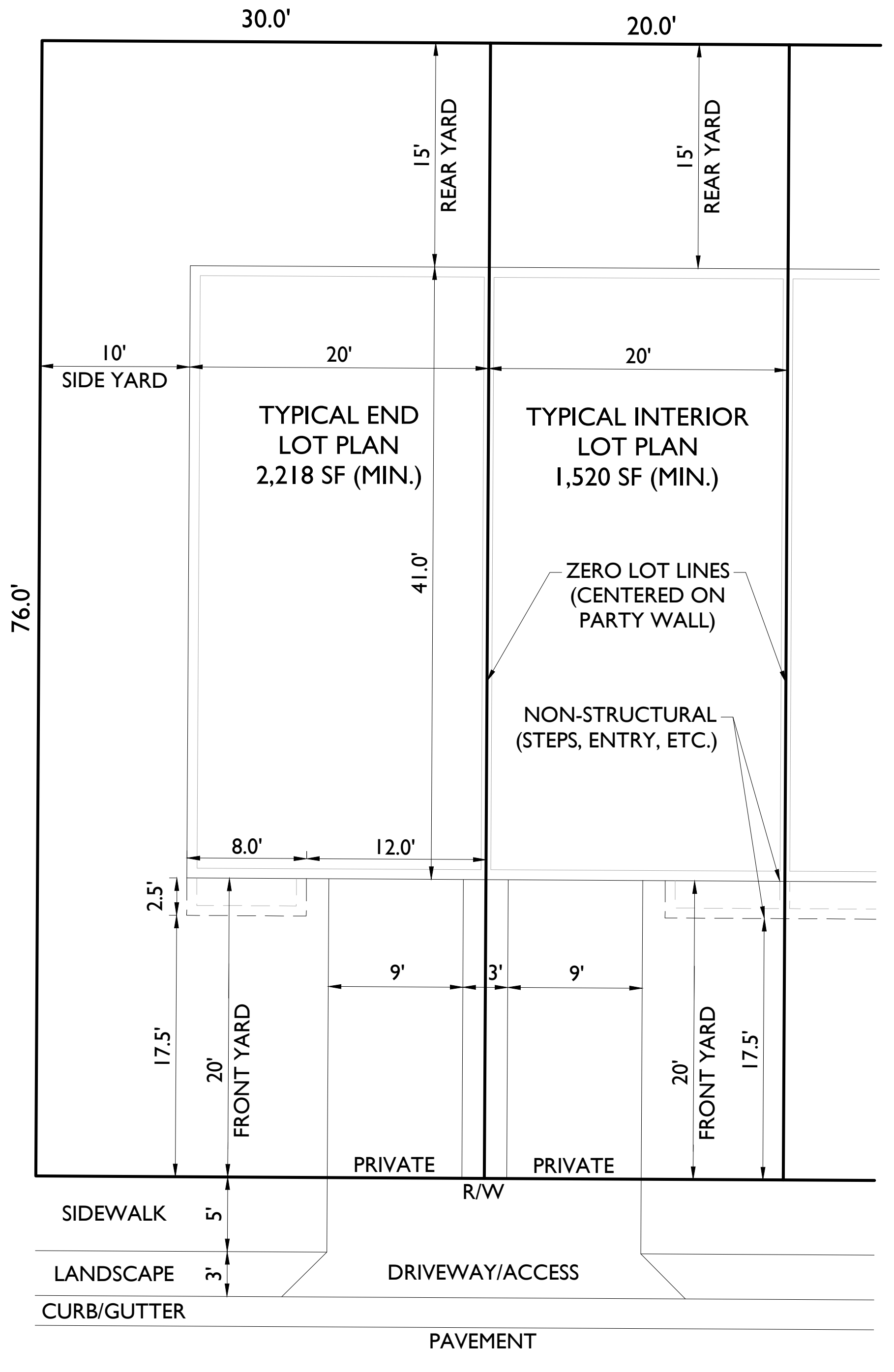
SHEET TITLE

SITE PLAN

SHEET ID

C-3.0





TYPICAL LOT PLANS (1"=10')

LOT AREA TABLE	
LOT NO.	AREA
1	*2,280 SF (0.052 AC)*
2	*1,520 SF (0.035 AC)*
3	*1,520 SF (0.035 AC)*
4	*1,520 SF (0.035 AC)*
5	*1,520 SF (0.035 AC)*
6	*1,520 SF (0.035 AC)*
7	*1,520 SF (0.035 AC)*
8	*1,520 SF (0.035 AC)*
9	*1,520 SF (0.035 AC)*
10	*2,280 SF (0.052 AC)*
11	*2,280 SF (0.052 AC)*
12	*1,520 SF (0.035 AC)*
13	*1,520 SF (0.035 AC)*
14	*1,520 SF (0.035 AC)*
15	*1,520 SF (0.035 AC)*
16	*1,520 SF (0.035 AC)*
17	*1,520 SF (0.035 AC)*
18	*2,280 SF (0.052 AC)*
19	*2,280 SF (0.052 AC)*
20	*1,520 SF (0.035 AC)*

LOT AREA TABLE	
LOT NO.	AREA
21	*1,520 SF (0.035 AC)*
22	*1,520 SF (0.035 AC)*
23	*1,520 SF (0.035 AC)*
24	*1,520 SF (0.035 AC)*
25	*1,520 SF (0.035 AC)*
26	*1,520 SF (0.035 AC)*
27	*1,520 SF (0.035 AC)*
28	*2,181 SF (0.050 AC)*
29	*2,280 SF (0.052 AC)*
30	*1,520 SF (0.035 AC)*
31	*1,520 SF (0.035 AC)*
32	*1,520 SF (0.035 AC)*
33	*1,520 SF (0.035 AC)*
34	*1,520 SF (0.035 AC)*
35	*1,520 SF (0.035 AC)*
36	*1,520 SF (0.035 AC)*
37	*1,520 SF (0.035 AC)*
38	*2,280 SF (0.052 AC)*
39	*2,218 SF (0.051 AC)*
40	*1,520 SF (0.035 AC)*

LOT AREA TABLE	
LOT NO.	AREA
41	*1,520 SF (0.035 AC)*
42	*1,520 SF (0.035 AC)*
43	*1,520 SF (0.035 AC)*
44	*1,520 SF (0.035 AC)*
45	*2,280 SF (0.052 AC)*
46	*2,280 SF (0.052 AC)*
47	*1,520 SF (0.035 AC)*
48	*1,520 SF (0.035 AC)*
49	*1,520 SF (0.035 AC)*
50	*1,520 SF (0.035 AC)*
51	*3,266 SF (0.075 AC)*
52	*2,831 SF (0.065 AC)*
53	*1,520 SF (0.035 AC)*
54	*1,520 SF (0.035 AC)*
55	*1,520 SF (0.035 AC)*
56	*1,520 SF (0.035 AC)*
57	*2,280 SF (0.052 AC)*
58	*2,280 SF (0.052 AC)*
59	*1,520 SF (0.035 AC)*
60	*1,520 SF (0.035 AC)*

LOT AREA TABLE	
LOT NO.	AREA
61	*1,520 SF (0.035 AC)*
62	*1,520 SF (0.035 AC)*
63	*1,520 SF (0.035 AC)*
64	*1,520 SF (0.035 AC)*
65	*2,280 SF (0.052 AC)*
66	*2,280 SF (0.052 AC)*
67	*1,520 SF (0.035 AC)*
68	*1,520 SF (0.035 AC)*
69	*1,520 SF (0.035 AC)*
70	*1,520 SF (0.035 AC)*
71	*1,520 SF (0.035 AC)*
72	*1,520 SF (0.035 AC)*
73	*3,154 SF (0.072 AC)*

H.O.A. TRACT DESIGNATION TABLE		
TRACT NO.	DESCRIPTION	AREA
A-1	*PRIVATE ACCESS*	*48,053 SF (1.103 AC)*
A-2	*NEIGHBORHOOD PARK*	*43,584 SF (1.001 AC)*
A-3	*LANDSCAPE BUFFER*	*37,212 SF (0.854 AC)*
A-4	*PUBLIC UTILITY*	*2,454 SF (0.056 AC)*
A-5	*COMMON AREA*	*6,450 SF (0.148 AC)*

REVISIONS

REV	DATE	DESCRIPTION
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BARDEZ
5048 POINTE EMERALD LANE; BOCA RATON, FL 33486
(0) 561-465-5949 | (e) nbarnett@bardezco.com

PROJECT DESCRIPTION

VILLA RICHEY

SITE ADDRESS: 4206/4210 MADISON ST.
NEW PORT RICHEY, FL
PROPERTY ID: 16-26-16-0010-06100-0010
PREPARED FOR: VILLA RICHEY, LLC

E-CERTIFICATION

No. 72006

Digitally signed by NOEL BARNETT
Date: 2024.03.26 16:40:30 -04'00'

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CERTIFICATION

DATE: 03-26-2024

NOEL BARNETT
PROFESSIONAL ENGINEER
FL LICENSE NO. 72006
FL BUSINESS C.A. NO.: 32223

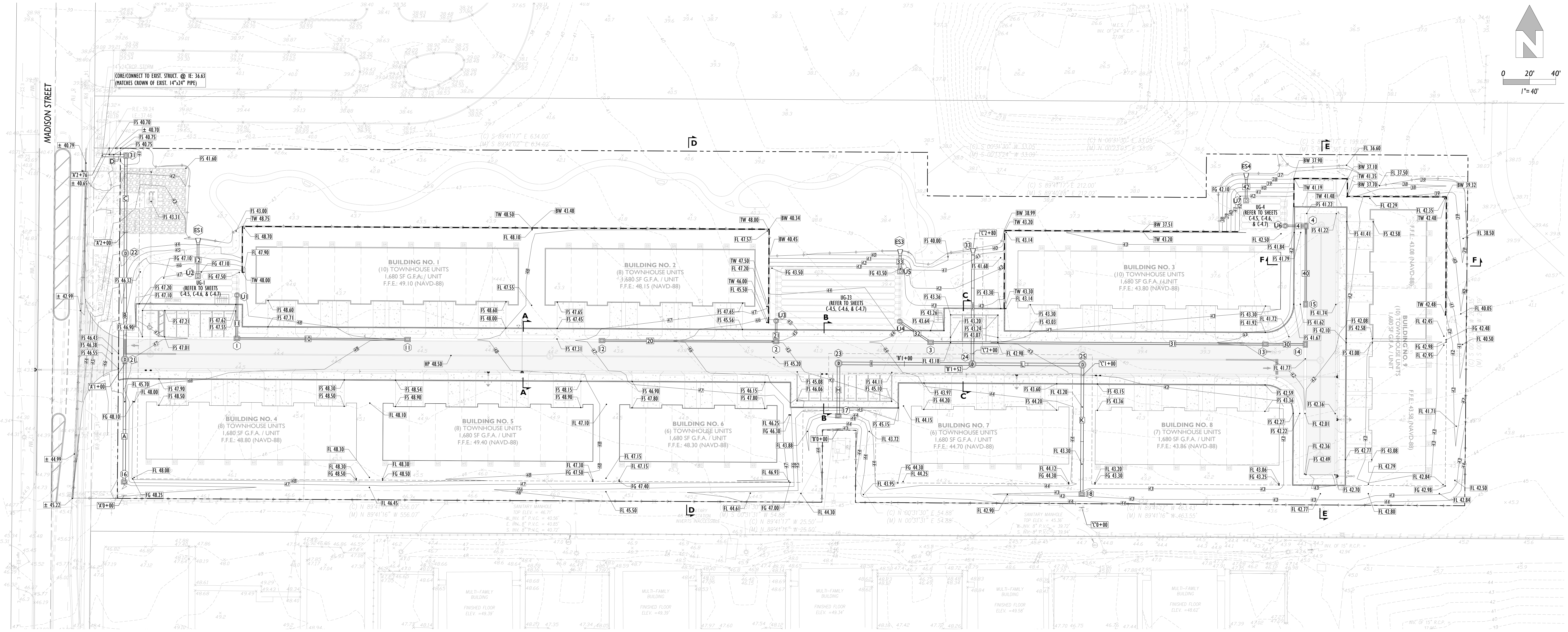
SHEET TITLE

CONCEPTUAL
LOT PLAN

SHEET ID

C-3.1

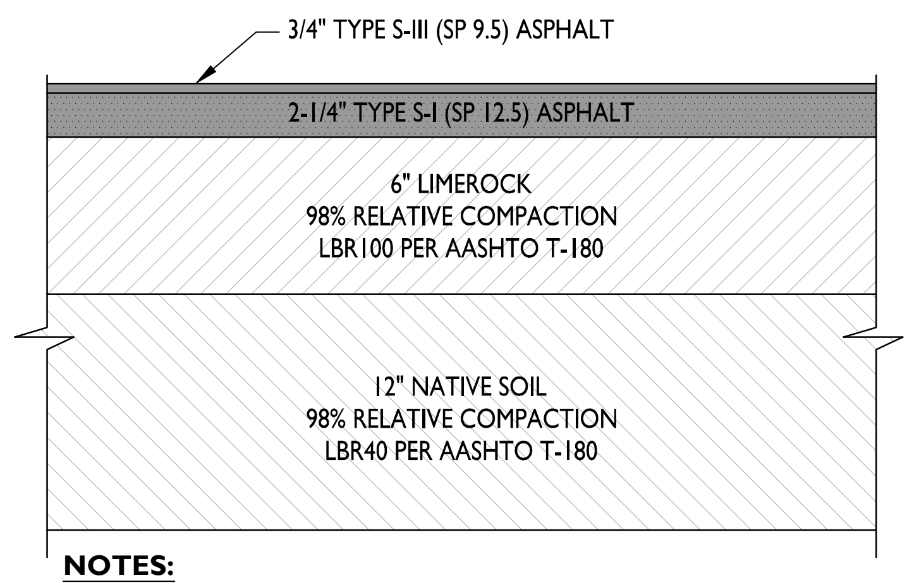
These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.
AUTHORIZED
PASCO COUNTY



DRAINAGE STRUCTURE TABLE			
ID	**TYPE**	**RIM ELEV.**	**CONNECTIONS**
1	DRAIN INLET (TYPE 'C')	47.26'	PIPE NO. 10 (I.E.: 42.00) PIPE NO. 11 (I.E.: 43.00)
2	DRAIN INLET (TYPE 'C')	44.85'	PIPE NO. 21 (I.E.: 41.00) PIPE NO. 20 (I.E.: 41.00)
3	DRAIN INLET (TYPE 'C')	43.37'	PIPE NO. 32 (I.E.: 38.25) PIPE NO. 31 (I.E.: 36.50)
4	DRAIN INLET (TYPE 'C')	40.95'	PIPE NO. 40 (I.E.: 36.50) PIPE NO. 41 (I.E.: 38.00)
11	DRAIN INLET (TYPE 'C')	48.06'	PIPE NO. 10 (I.E.: 42.00)
12	DRAIN INLET (TYPE 'C')	46.73'	PIPE NO. 20 (I.E.: 41.00)
13	DRAIN INLET (TYPE 'C')	41.79'	PIPE NO. 31 (I.E.: 36.50) PIPE NO. 30 (I.E.: 37.80)
14	DRAIN INLET (TYPE 'C')	41.70'	PIPE NO. 30 (I.E.: 38.10)
15	DRAIN INLET (TYPE 'C')	41.39'	PIPE NO. 40 (I.E.: 36.50)
16	DRAIN INLET (TYPE 'C')	44.68'	PIPE NO. A (I.E.: 40.31)
17	DRAIN INLET (TYPE 'C')	43.63'	PIPE NO. H (I.E.: 40.21)
18	DRAIN INLET (TYPE 'C')	42.62'	PIPE NO. K (I.E.: 39.00)
21	48"Ø MANHOLE	46.72'	PIPE NO. A (I.E.: 40.02) PIPE NO. B (I.E.: 40.02)
22	48"Ø MANHOLE	44.00'	PIPE NO. B (I.E.: 39.77) PIPE NO. C (I.E.: 39.77)
23	48"Ø MANHOLE	44.59'	PIPE NO. H (I.E.: 39.75) PIPE NO. I (I.E.: 39.75)

DRAINAGE STRUCTURE TABLE			
ID	**TYPE**	**RIM ELEV.**	**CONNECTIONS**
24	48"Ø MANHOLE	43.36'	PIPE NO. L (I.E.: 38.56) PIPE NO. J (I.E.: 38.56) PIPE NO. I (I.E.: 38.56)
25	48"Ø MANHOLE	42.88'	PIPE NO. K (I.E.: 38.76) PIPE NO. L (I.E.: 38.76)
31	DRAIN INLET (TYPE 'C')	40.50'	PIPE NO. C (I.E.: 36.81) PIPE NO. D (I.E.: 36.81)
33	24" MITERED END SECTION		PIPE NO. J (I.E.: 38.35)
ES1	15" MITERED END SECTION		PIPE NO. 12 (I.E.: 42.80)
ES3	18" MITERED END SECTION		PIPE NO. 33 (I.E.: 38.50)
ES4	15" MITERED END SECTION		PIPE NO. 42 (I.E.: 36.90)
U1	UG-1 INLET CONTROL STRUCTURE	47.50'	REFER TO DETAIL
U2	UG-1 OUTLET CONTROL STRUCTURE	47.00'	REFER TO DETAIL
U3	UG-23 INLET CONTROL STRUCTURE	45.04'	REFER TO DETAIL
U4	UG-23 INLET CONTROL STRUCTURE	43.89'	REFER TO DETAIL
U5	UG-23 OUTLET CONTROL STRUCTURE	43.50'	REFER TO DETAIL
U6	UG-4 INLET CONTROL STRUCTURE	42.25'	REFER TO DETAIL
U7	UG-4 OUTLET CONTROL STRUCTURE	42.00'	REFER TO DETAIL

STORM PIPE TABLE			
ID	**SIZE / MATERIAL**	**LENGTH**	**SLOPE**
A	24" R.C.P.	93.2'	0.31%
B	24" R.C.P.	80.7'	0.31%
C	24" R.C.P.	74.3'	3.99%
D	24" R.C.P.	18.0'	1.00%
H	24" R.C.P.	39.9'	1.16%
I	24" R.C.P.	101.8'	1.16%
J	24" R.C.P.	87.8'	0.24%
K	24" R.C.P.	98.5'	0.24%
L	24" R.C.P.	83.7'	0.24%
10	12" HDPE w/ 77 LF EXFILTRATION TRENCH (DETAIL 'A')	129.9'	0.00%
11	15" ADS N-12	32.8'	1.01%
12	15" ADS N-12	28.8'	0.70%
20	12" HDPE w/ 85 LF EXFILTRATION TRENCH (DETAIL 'B')	132.5'	0.00%
21	15" ADS N-12	15.8'	5.02%
30	15" ADS N-12	30.5'	0.98%
31	15" HDPE w/ 216 LF EXFILTRATION TRENCH (DETAIL 'C')	254.7'	0.00%
32	15" ADS N-12	28.3'	1.77%
33	18" ADS N-12	16.6'	1.50%
40	12" HDPE w/ 44 LF EXFILTRATION TRENCH (DETAIL 'D')	59.5'	0.00%
41	15" ADS N-12	15.7'	1.27%
42	15" ADS N-12	20.8'	5.28%



NOTES:

1. ENGINEER'S APPROVAL REQUIRED TO UTILIZE AN ALTERNATIVE PAVEMENT SECTION ONSITE.
2. COUNTY'S APPROVAL REQUIRED TO UTILIZE AN ALTERNATIVE PAVEMENT SECTION WITHIN MADISON STREET.

ASPHALT PAVEMENT SECTION (NTS)

VERTICAL DATUM CONVERSION NOTE

ELEVATIONS SHOWN ON THIS PLAN REFERENCE THE NAVD-88 VERTICAL DATUM (UNLESS OTHERWISE NOTED). THE FOLLOWING CONVERSION FACTOR SHOULD BE USED TO CONVERT ELEVATIONS SHOWN ON THIS PLAN FROM THE NAVD-88 DATUM TO THE NGVD-29 DATUM:

ADJUSTED PLAN ELEVATION (NGVD-29) = PLAN ELEVATION (NAVD-88) + 0.843

FOR EXAMPLE, A FINISHED FLOOR ELEVATION OF 12.50 NAVD-88, AS SHOWN ON THIS PLAN, SHOULD BE CONVERTED AS FOLLOWS:

ADJUSTED PLAN ELEVATION (NGVD-29) = PLAN ELEVATION (NAVD-88) + 0.843
ADJUSTED PLAN ELEVATION (NGVD-29) = 12.50 + 0.843
ADJUSTED PLAN ELEVATION (NGVD-29) = 13.343 NAVD-29

GENERAL NOTES

1. THE SERVICE ROAD AND MASTER SURFACE WATER MANAGEMENT SYSTEM WILL BE OWNED, OPERATED, AND MAINTAINED BY THE PROPERTY OWNER'S ASSOCIATION.

SYMBOL LEGEND	
▨	PROPOSED ASPHALT PAVEMENT (MIN. 3.70 SN - REFER TO DETAIL)
△	PROPOSED CONCRETE PAVEMENT
FS x.xx	FINISHED SURFACE ELEVATION
± x.xx	MATCH ELEVATION (APPROXIMATE)
FL x.xx	FLOW LINE ELEVATION
FG x.xx	FINISHED GRADE ELEVATION
TW x.xx	TOP OF WALL ELEVATION
BW x.xx	BOTTOM OF WALL ELEVATION
HP x.xx	HIGH POINT ELEVATION
═	PROPOSED FDOT TYPE 'D' CURB
4.44	EXISTING SPOT ELEVATION
□	EXISTING DRAINAGE INLET
Ⓓ	PROPOSED DRAINAGE MANHOLE
▣	PROPOSED DRAINAGE INLET
◁	PROPOSED MITERED END SECTION
═	PROPOSED DRAINAGE PIPE
'A'0+00	'A' - PROPOSED ALIGNMENT/PROFILE ID 0+00 - ALIGNMENT/PROFILE STATION NO. (SEE 'STORM DRAIN PROFILES', SHEET C-4.2)
ⓧ	PROPOSED DRAINAGE STRUCTURE ID (SEE DRAINAGE STRUCTURE TABLE, THIS SHEET)
☒	PROPOSED DRAINAGE PIPE ID (SEE STORM PIPE TABLE, THIS SHEET)
X X	LOCATION OF DETAILED GRADING CROSS SECTION (SHEET C-4.1)

REVISIONS

REV	DATE	DESCRIPTION
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BARDEZ
5048 POINTE EMERALD LANE; BOCA RATON, FL 33486
(0) 561-465-5949 | (e) nbarnett@bardezco.com

PROJECT DESCRIPTION

VILLA RICHEY

SITE ADDRESS: 4206/4210 MADISON ST.
NEW PORT RICHEY, FL
PROPERTY ID: 16-26-16-0010-06100-0010
PREPARED FOR: VILLA RICHEY, LLC

E-CERTIFICATION

NOEL A. BARNETT
No. 72006

Digitally signed by NOEL BARNETT
Date: 2024.03.26 16:40:45 -04'00'

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CERTIFICATION

DATE: 03-26-2024

NOEL BARNETT
PROFESSIONAL ENGINEER
FL LICENSE NO. 72006
FL BUSINESS C.A. NO.: 32223

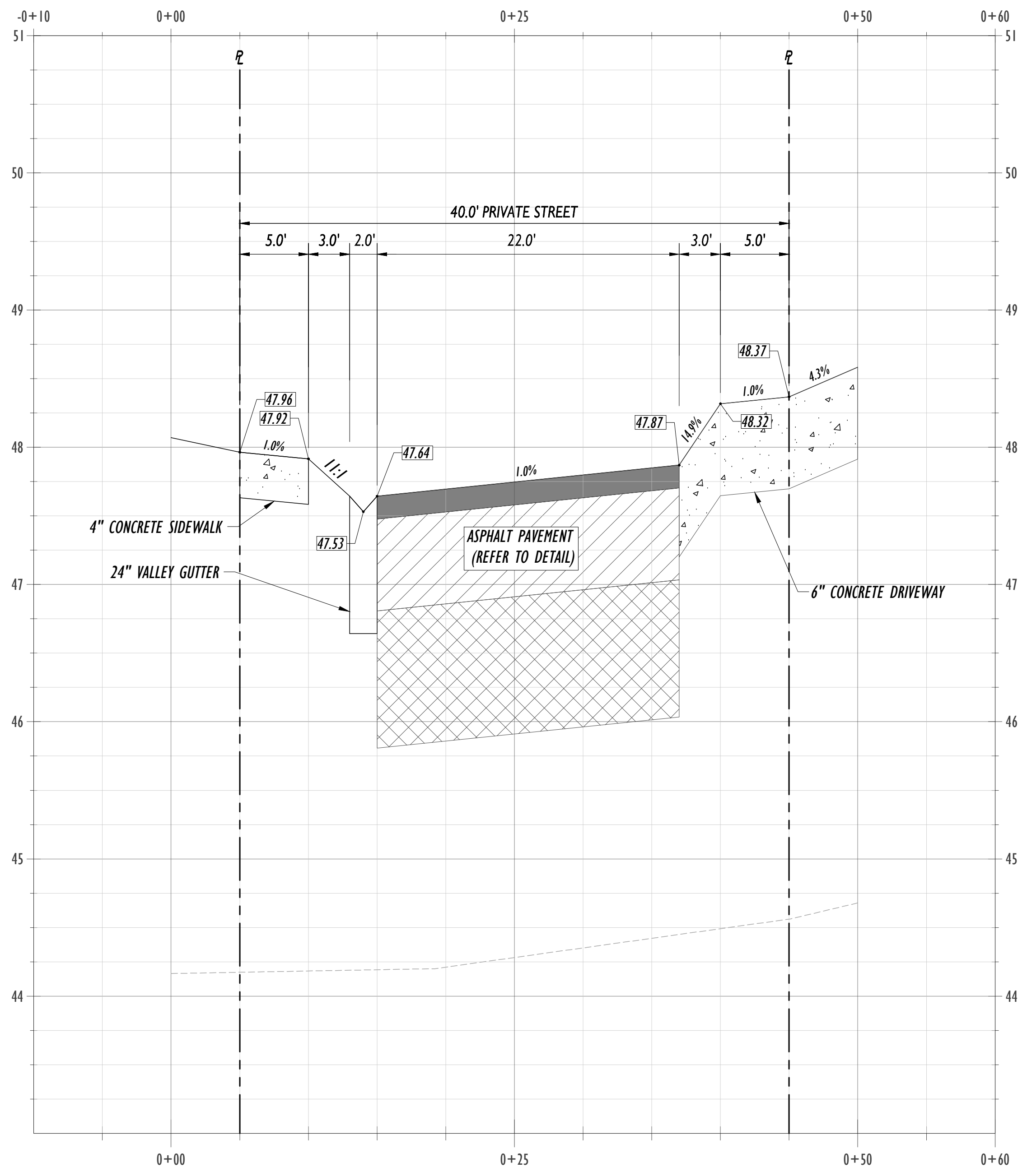
SHEET TITLE

ENGINEERING PLAN

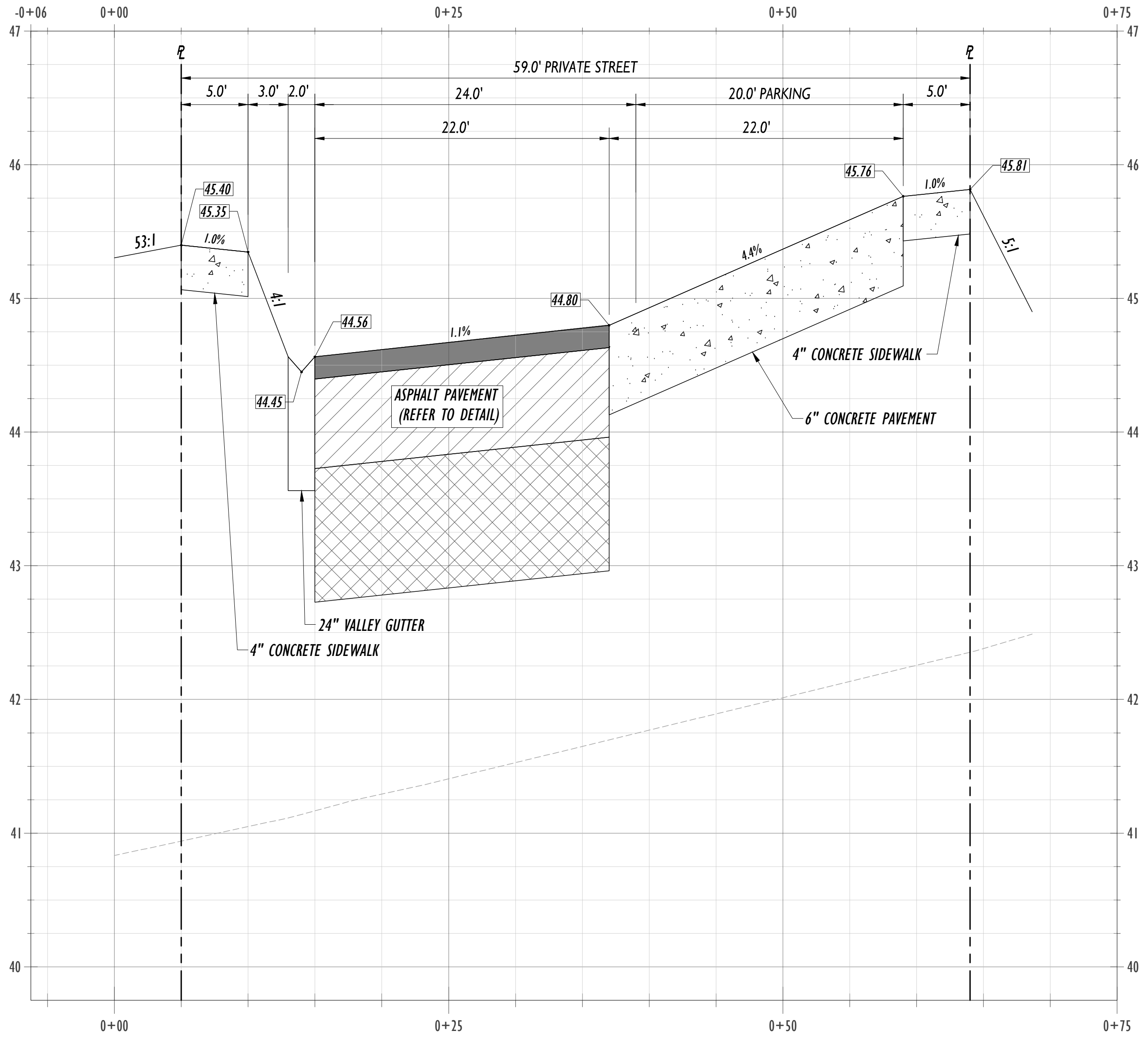
SHEET ID

C-4.0

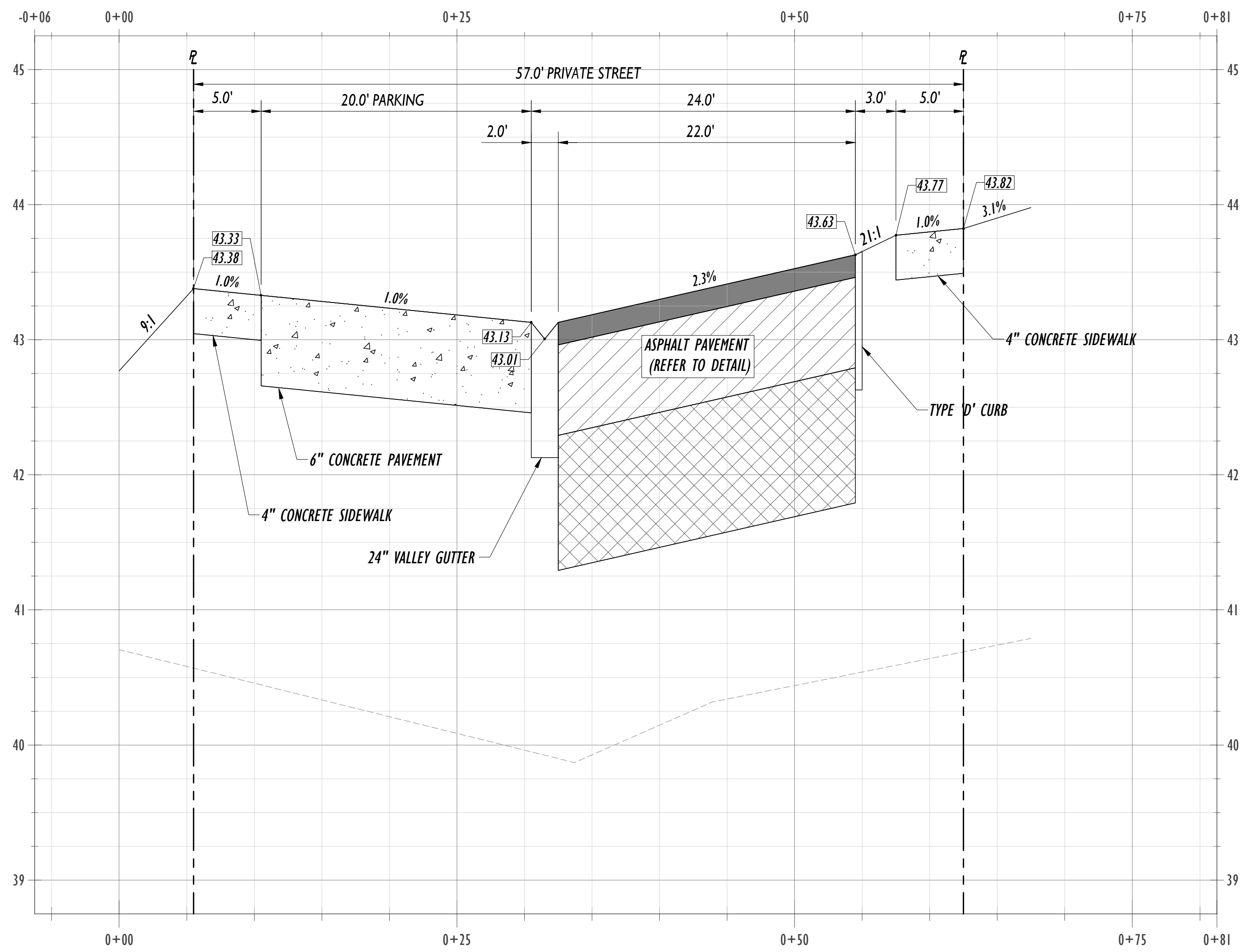
PASCO
AUTHORIZED
SUB-2023-00
These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.



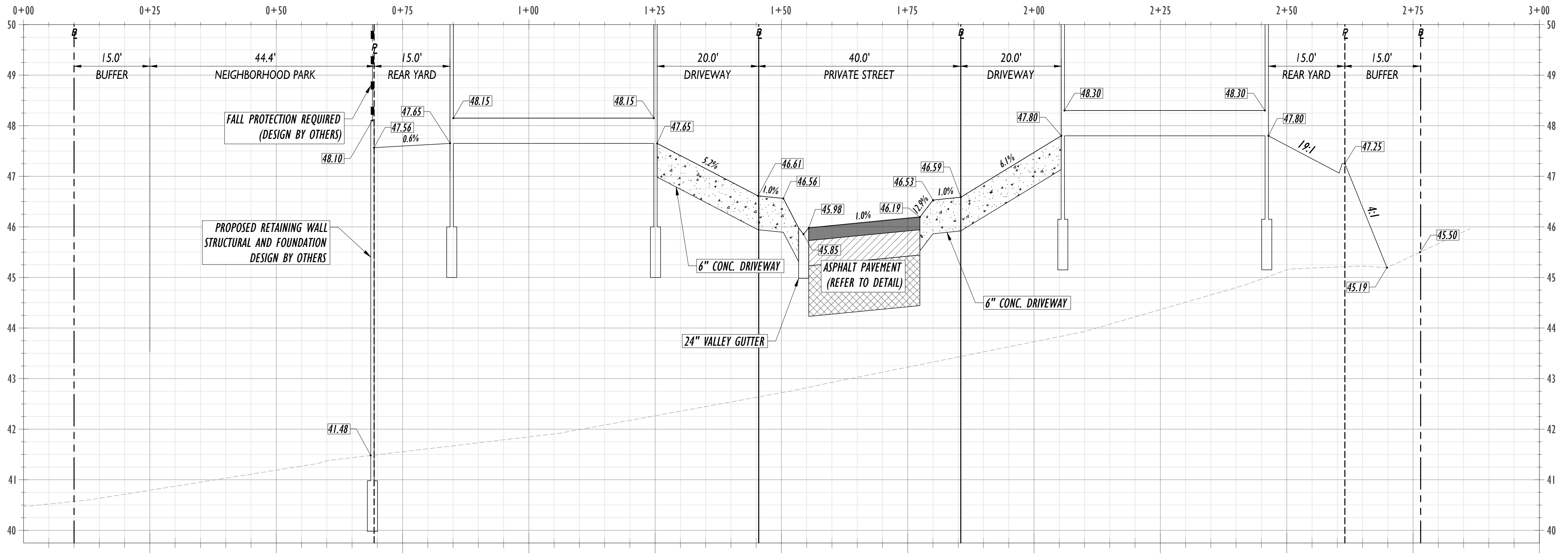
TYPICAL ROADWAY SECTION A-A
SCALE: 1"=10' (HORIZ) | 1"=1' (VERT)



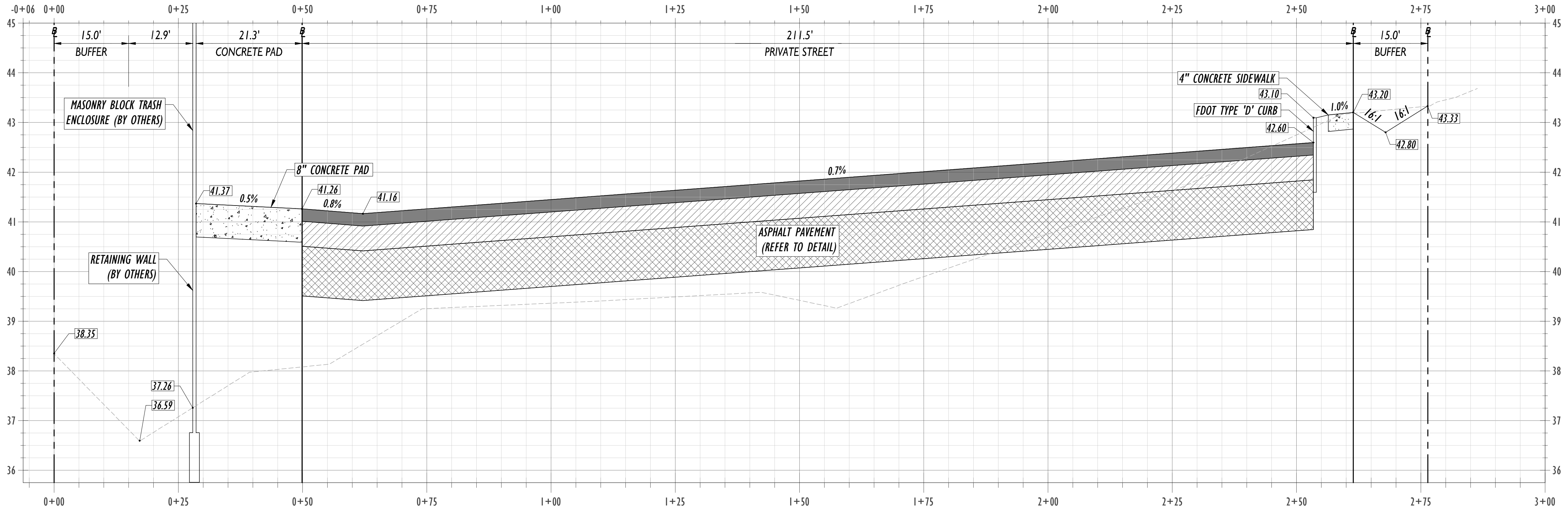
TYPICAL ROADWAY SECTION B-B
SCALE: 1"=10' (HORIZ) | 1"=1' (VERT)



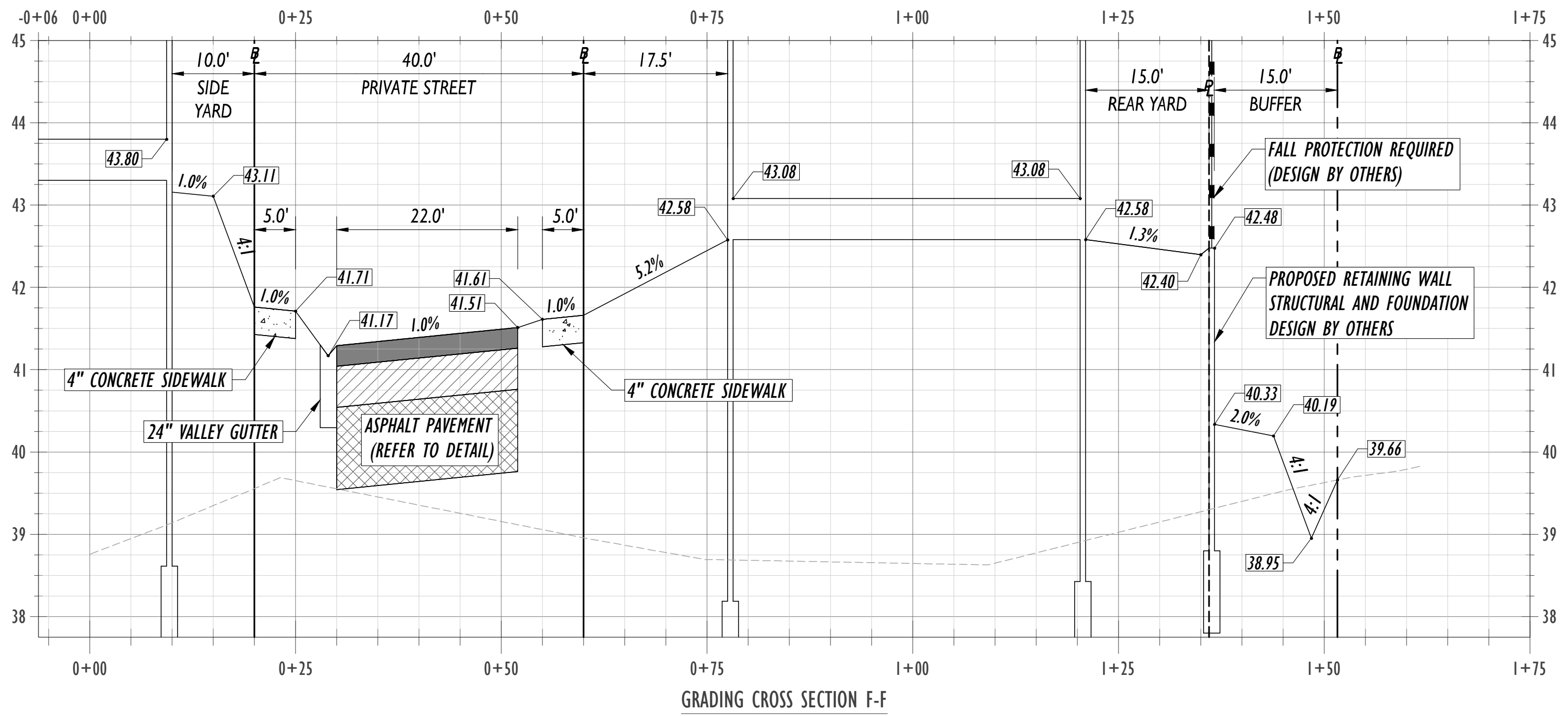
TYPICAL ROADWAY SECTION C-C
SCALE: 1"=10' (HORIZ) | 1"=1' (VERT)



GRADING CROSS SECTION D-D
SCALE: 1"=20' (HORIZ) | 1"=2' (VERT)



GRADING CROSS SECTION E-E
SCALE: 1"=20' (HORIZ) | 1"=2' (VERT)



GRADING CROSS SECTION F-F
SCALE: 1"=20' (HORIZ) | 1"=2' (VERT)

REVISIONS

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BARDEZ

5048 POINTE EMERALD LANE; BOCA RATON, FL 33486
(0) 561-465-5949 | (e) nbarnett@bardezco.com

PROJECT DESCRIPTION

VILLA RICHEY

SITE ADDRESS: 4206/4210 MADISON ST.
NEW PORT RICHEY, FL
PROPERTY ID: 16-26-16-0010-06100-0010
PREPARED FOR: VILLA RICHEY, LLC

E-CERTIFICATION

Digitally signed by NOEL BARNETT
Date: 2024.03.26 16:40:58 -04'00'

No. 72006

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CERTIFICATION

DATE: 03-26-2024

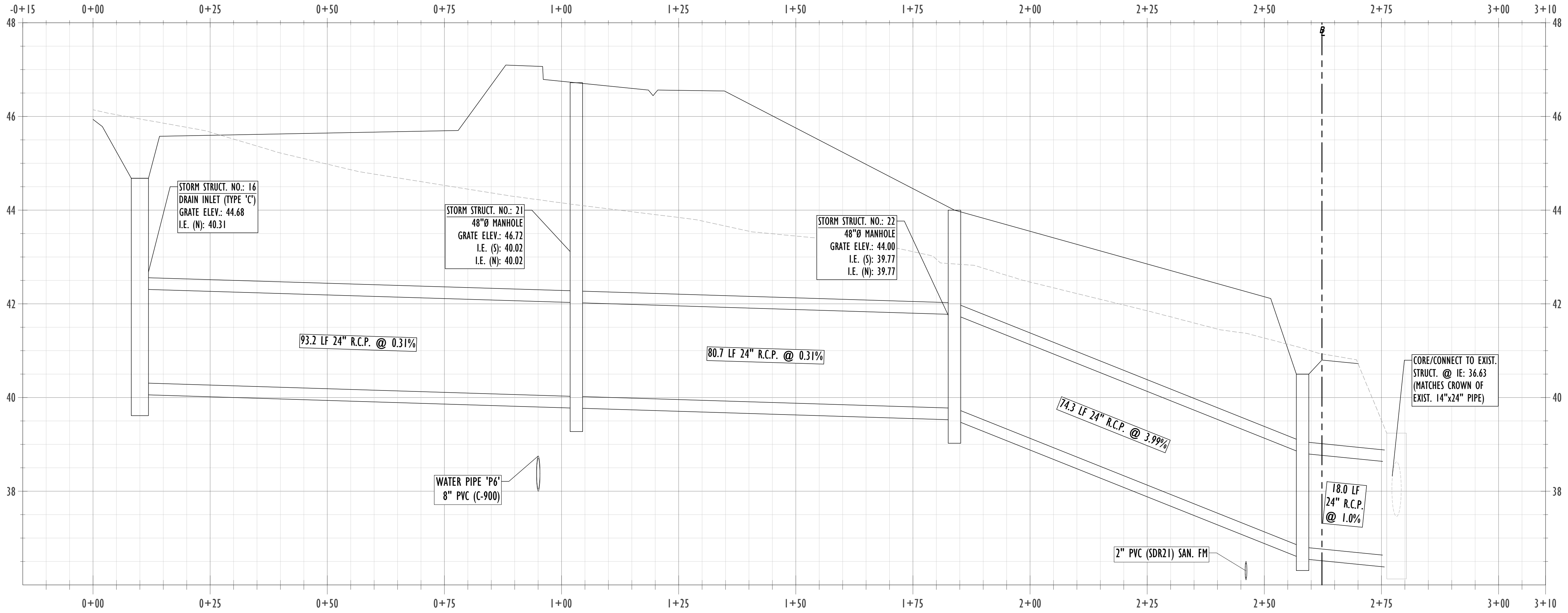
NOEL BARNETT
PROFESSIONAL ENGINEER
FL LICENSE NO. 72006
FL BUSINESS C.A. NO.: 32223

SHEET TITLE

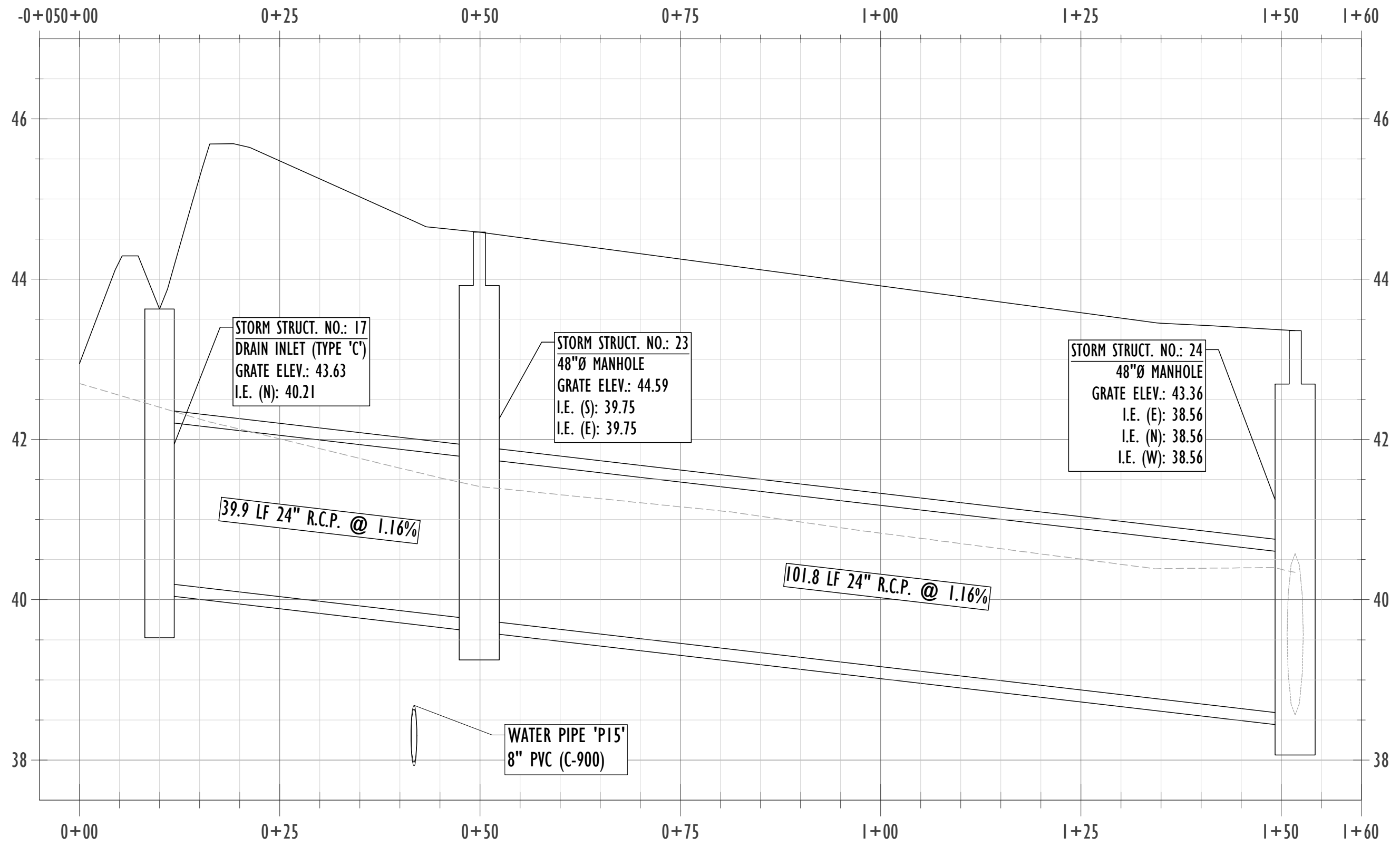
GRADING
CROSS
SECTIONS

SHEET ID

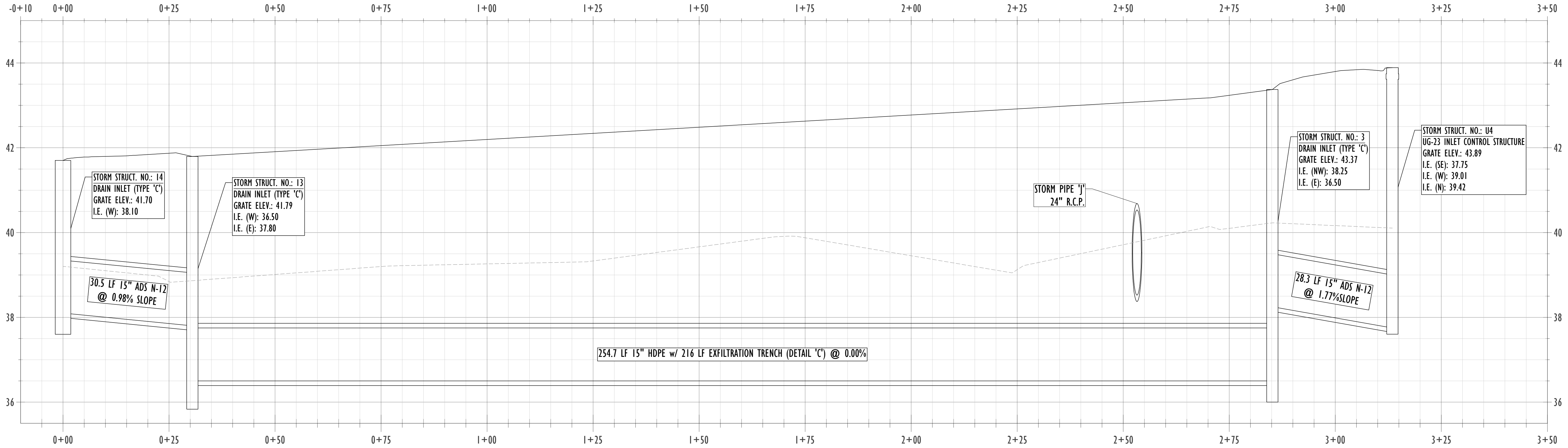
C-4.1



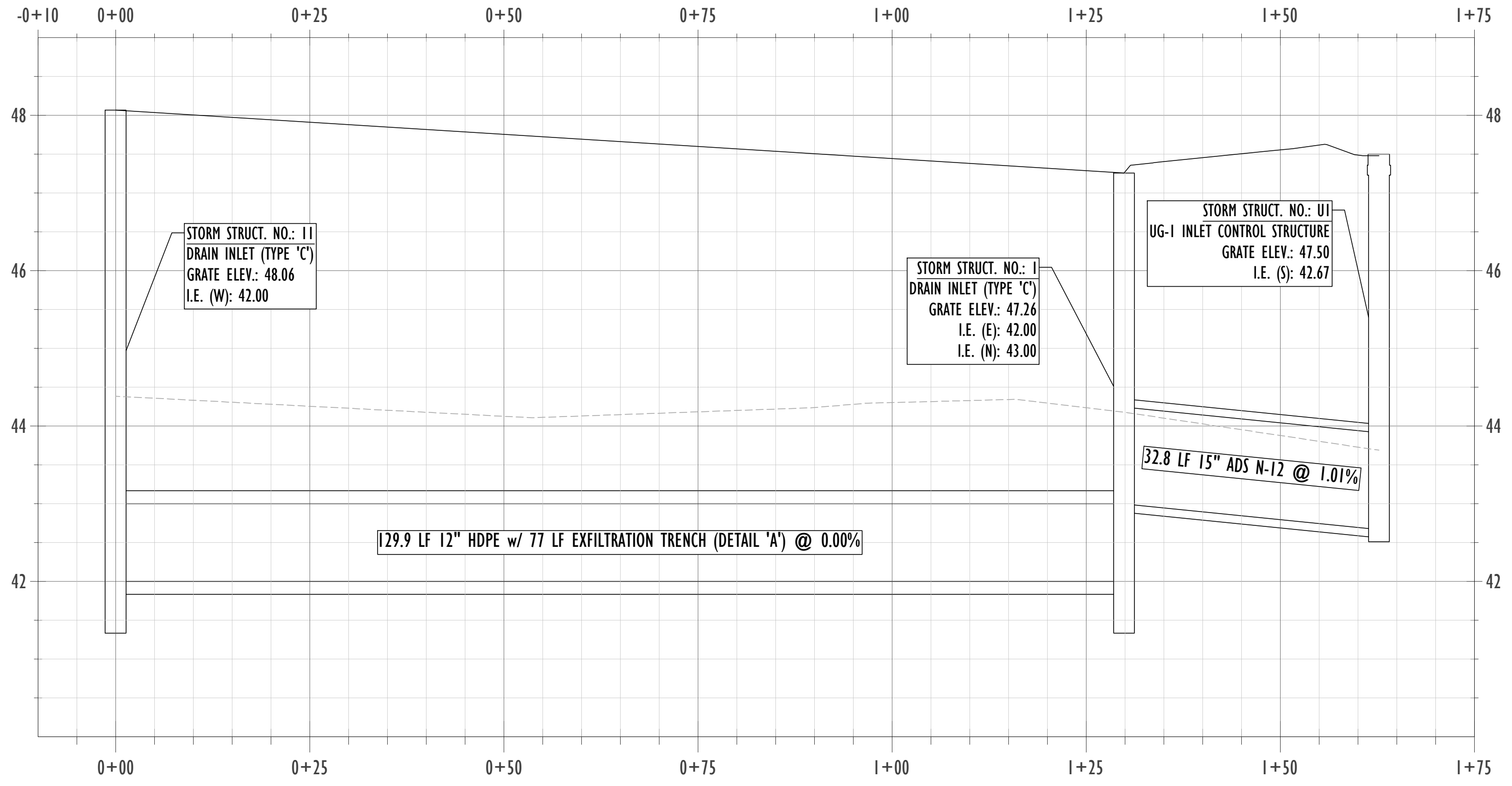
ALIGNMENT 'A' - 24" RCP STORM DRAIN
SCALE: 1"=40' (HORIZ) | 1"=4' (VERT)



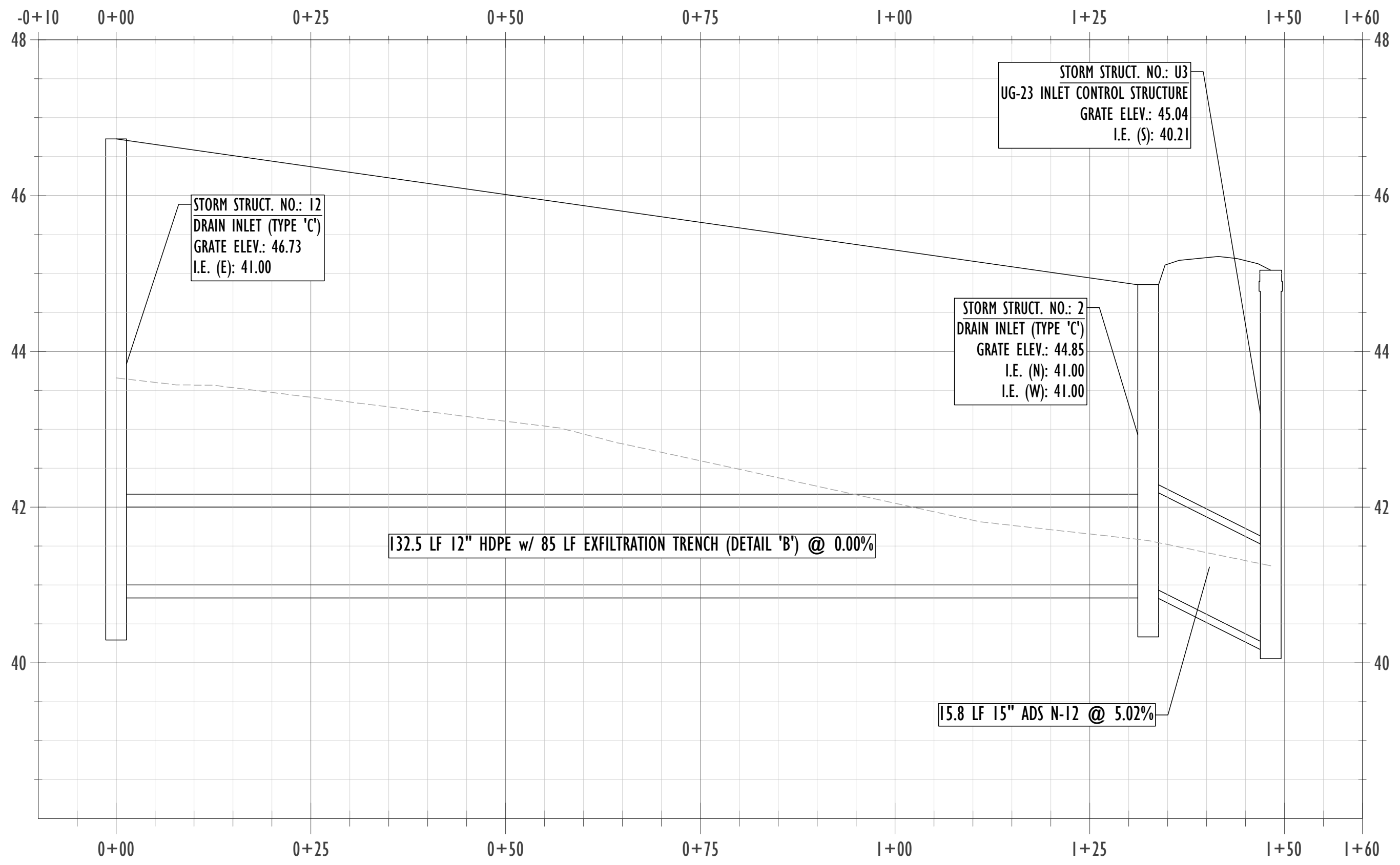
ALIGNMENT 'B' - 24" RCP STORM DRAIN
SCALE: 1"=40' (HORIZ) | 1"=4' (VERT)



EXFILTRATION RUN 'C' TO UG-23
SCALE: 1"=40' (HORIZ) | 1"=4' (VERT)



EXFILTRATION RUN 'A' TO UG-1
SCALE: 1"=40' (HORIZ) | 1"=4' (VERT)



EXFILTRATION RUN 'B' TO UG-23
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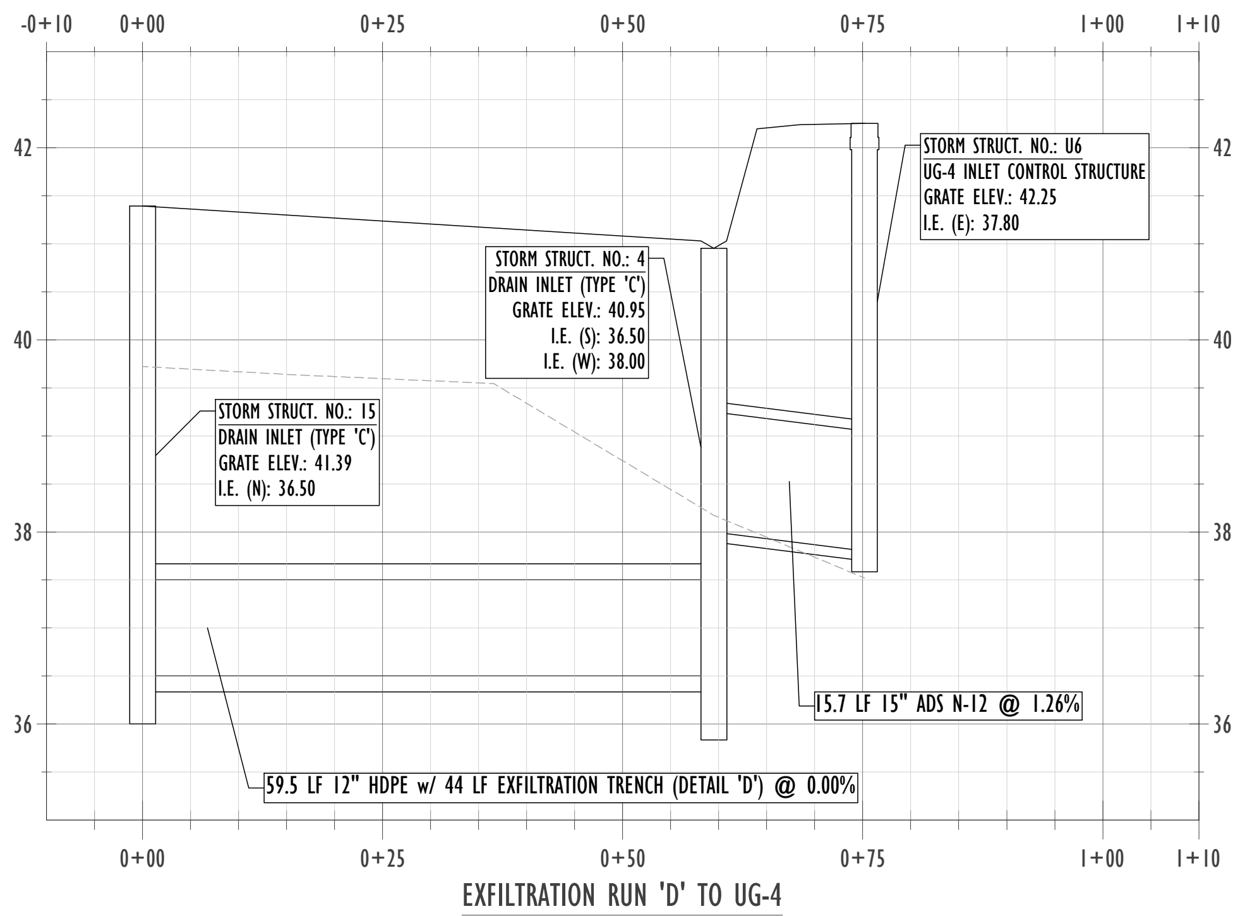
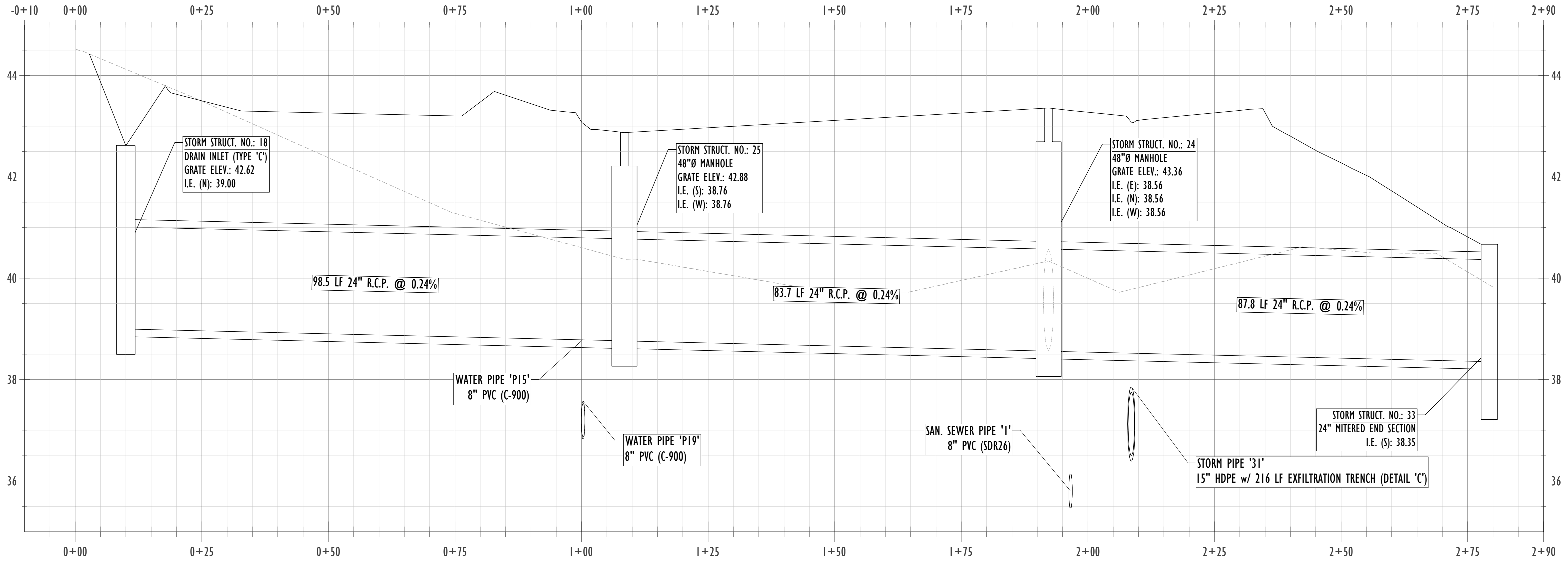


EXFILTRATION RUN 'D' TO UG-4
SCALE: 1"=40' (HORIZ) | 1"=4' (VERT)



ALIGNMENT 'C' - 24" RCP STORM DRAIN
SCALE: 1"=40' (HORIZ) | 1"=4' (VERT)

REVISIONS

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PROJECT DESCRIPTION

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NEW PORT RICHEY, FL
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PREPARED FOR: VILLA RICHEY, LLC

E-CERTIFICATION

No. 72006

Digitally signed by NOEL BARNETT
Date: 2024.03.26 16:41:12 -04'00'

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY NOEL A. BARNETT, PE ON THE DATE ADJACENT TO THE SEAL.

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CERTIFICATION

DATE: 03-26-2024

NOEL BARNETT
PROFESSIONAL ENGINEER
FL LICENSE NO. 72006
FL BUSINESS C.A. NO.: 32223

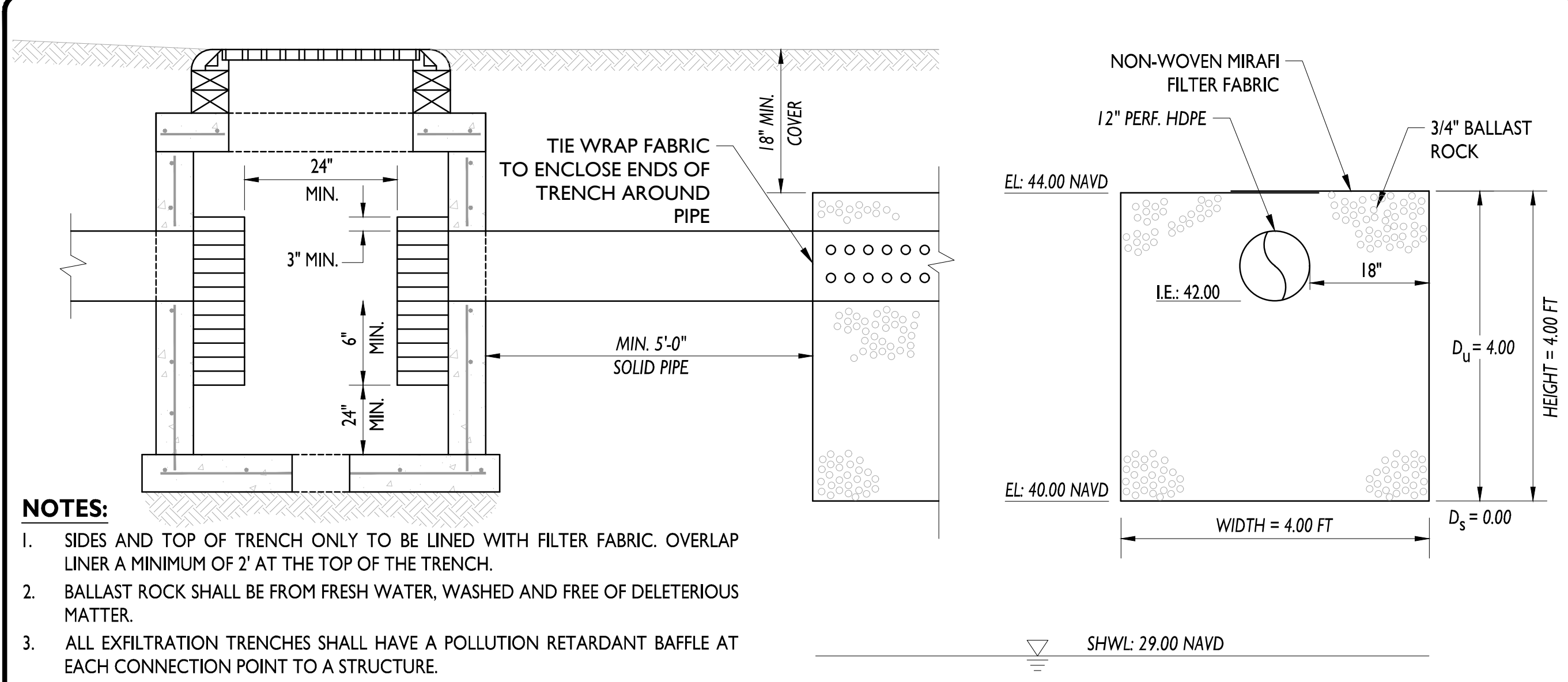
SHEET TITLE

STORM DRAIN PROFILES

SHEET ID

C-4.2

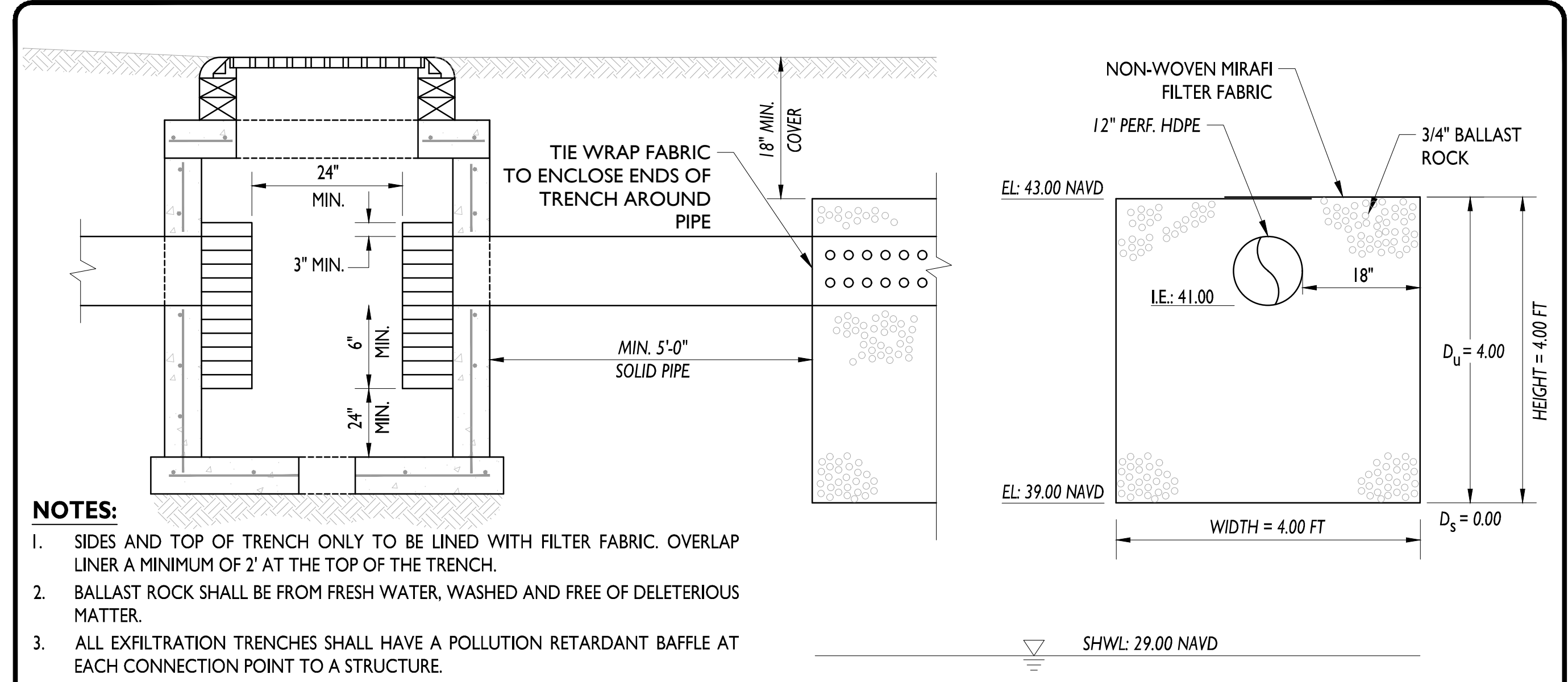
These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.
AUTHORIZED
PASCO



NOTES:

1. SIDES AND TOP OF TRENCH ONLY TO BE LINED WITH FILTER FABRIC. OVERLAP LINER A MINIMUM OF 2' AT THE TOP OF THE TRENCH.
2. BALLAST ROCK SHALL BE FROM FRESH WATER, WASHED AND FREE OF DELETERIOUS MATTER.
3. ALL EXFILTRATION TRENCHES SHALL HAVE A POLLUTION RETARDANT BAFFLE AT EACH CONNECTION POINT TO A STRUCTURE.
4. GASKETS SHALL BE USED WITH RCP IN EXFILTRATION TRENCH.
5. PROVIDE 6"x6" WEEP HOLE CUTOUT IN BOTTOM SLAB

EXFILTRATION TRENCH TYPE 'A' DETAIL (NTS)



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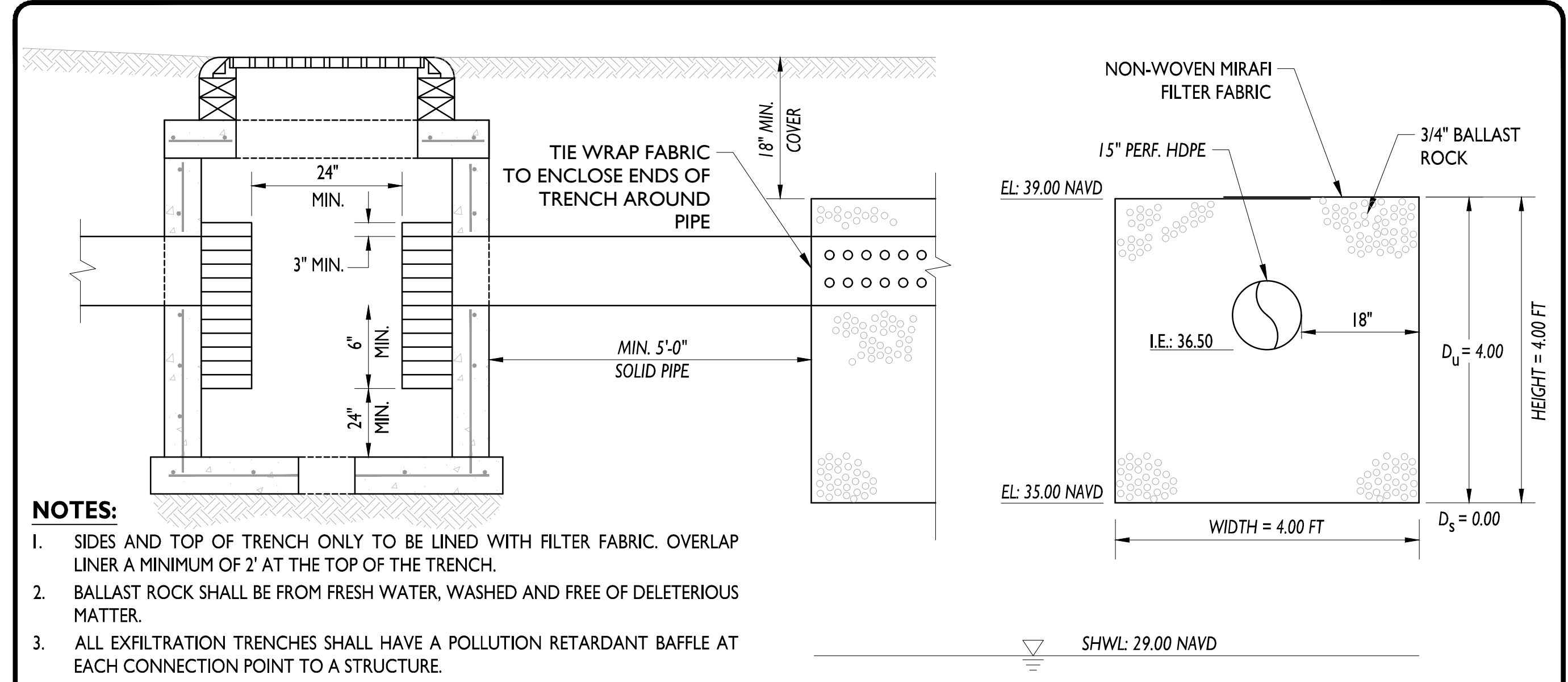
EXFILTRATION TRENCH TYPE 'B' DETAIL (NTS)



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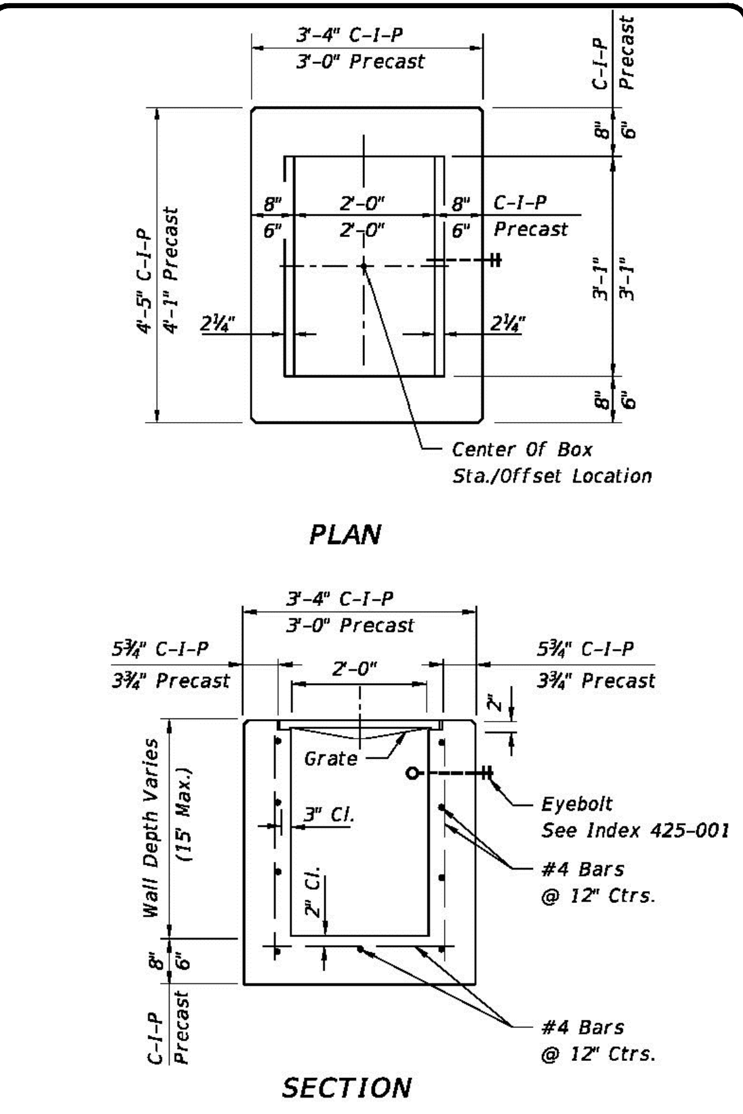
3. ALL EXFILTRATION TRENCHES SHALL HAVE A POLLUTION RETARDANT BAFFLE AT EACH CONNECTION POINT TO A STRUCTURE.
4. GASKETS SHALL BE USED WITH RCP IN EXFILTRATION TRENCH.
5. PROVIDE 6"x6" WEEP HOLE CUTOUT IN BOTTOM SLAB

EXFILTRATION TRENCH TYPE 'C' DETAIL (NTS)



HORIZONTAL WALL REINFORCING SCHEDULES (TABLE 1)

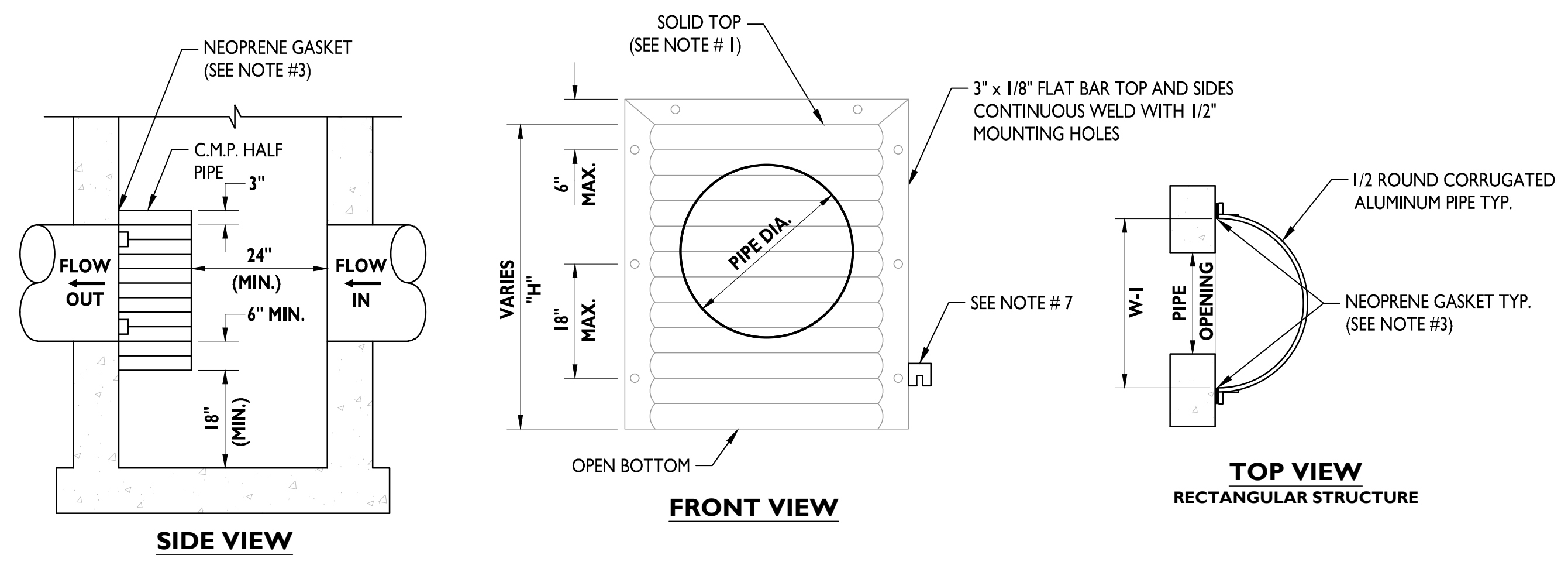
WALL DEPTH	SCHEDULE	AREA (in.²/ft.)	MAX. SPACING	
			BARS	WWF
0'-15'	A12	0.20	12"	8"

TYPE C

Recommended Maximum Pipe Size:

2'-0" Wall - 18" Pipe
3'-1" Wall - 24" Pipe (18" where an 18" pipe enters a 2'-0" wall)

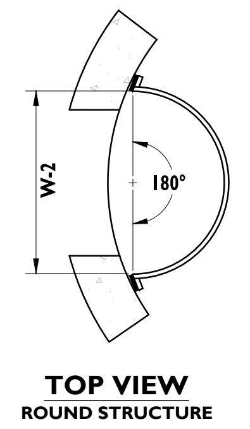
DRAIN INLET (TYPE 'C')



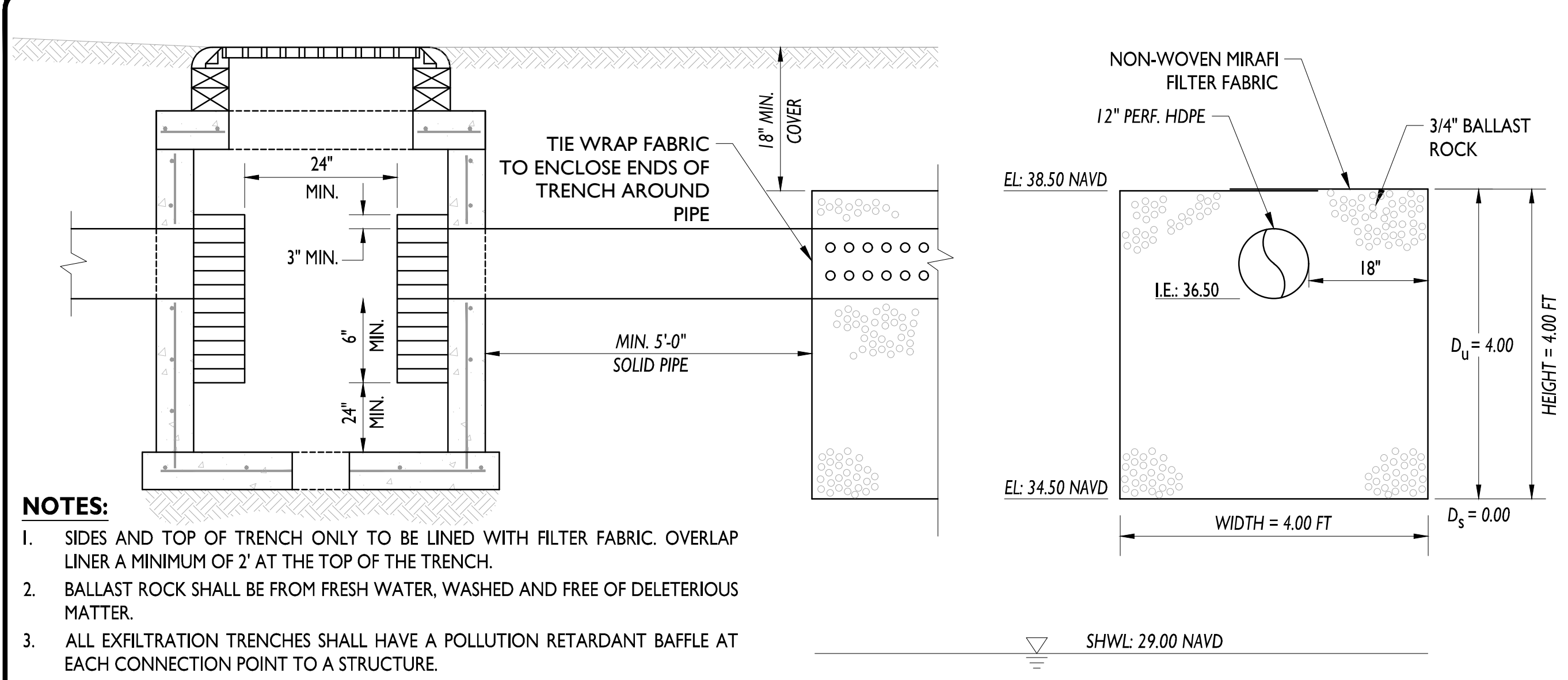
PIPE DIA.	W-1 (IN)	W-2 (IN)	T (GAUGE)	H (IN)
15"	21"	21"	16	VARIES
18"	24"	24"	16	VARIES
21"	30"	30"	16	VARIES
24"	30"	36"	16	VARIES
30"	36"	42"	14	VARIES
36"	42"	48"	14	VARIES
42"	48"	54"	14	VARIES
48"	54"	60"	14	VARIES
54"	60"	66"	14	VARIES

NOTES:

1. ALUMINUM SHEET OF SAME THICKNESS (GAUGE) AS PIPE SHALL BE WELDED TO CLOSE OPENING AT THE TOP.
2. NEOPRENE ADHESIVE BACKED GASKET, OR APPROVED EQUAL (1" x 3") SHALL BE INSTALLED ON THE SIDES AND TOP OF ALL BAFFLES.
3. POLLUTION RETARDANT BAFFLE TO BE FASTENED IN PLACE WITH 3/8"x4" STAINLESS STEEL "RED HEADS", OR APPROVED EQUAL.
4. ALL EXFILTRATION TRENCHES SHALL HAVE A POLLUTION RETARDANT BAFFLE AT EACH CONNECTION POINT TO A STRUCTURE (SEE EXFILTRATION TRENCH DETAIL). THE BOTTOM OF THE BAFFLE SHALL BE A MIN. OF 12" BELOW C.W.E.
5. FIBERGLASS BAFFLES ARE NOT PERMITTED.
6. MOUNTING BRACKETS MAY BE ADDED TO FLAT BARS TO EASE INSTALLATION IN ROUND STRUCTURES. SPACING TO MATCH HOLES IN FLAT BARS.
7. FOR POLLUTION RETARDANT BASINS THE BOTTOM ELEVATION OF THE BAFFLE MUST BE A MINIMUM OF 2' BELOW THE CONTROL WATER ELEVATION.



POLLUTION RETARDANT BAFFLE (NTS)



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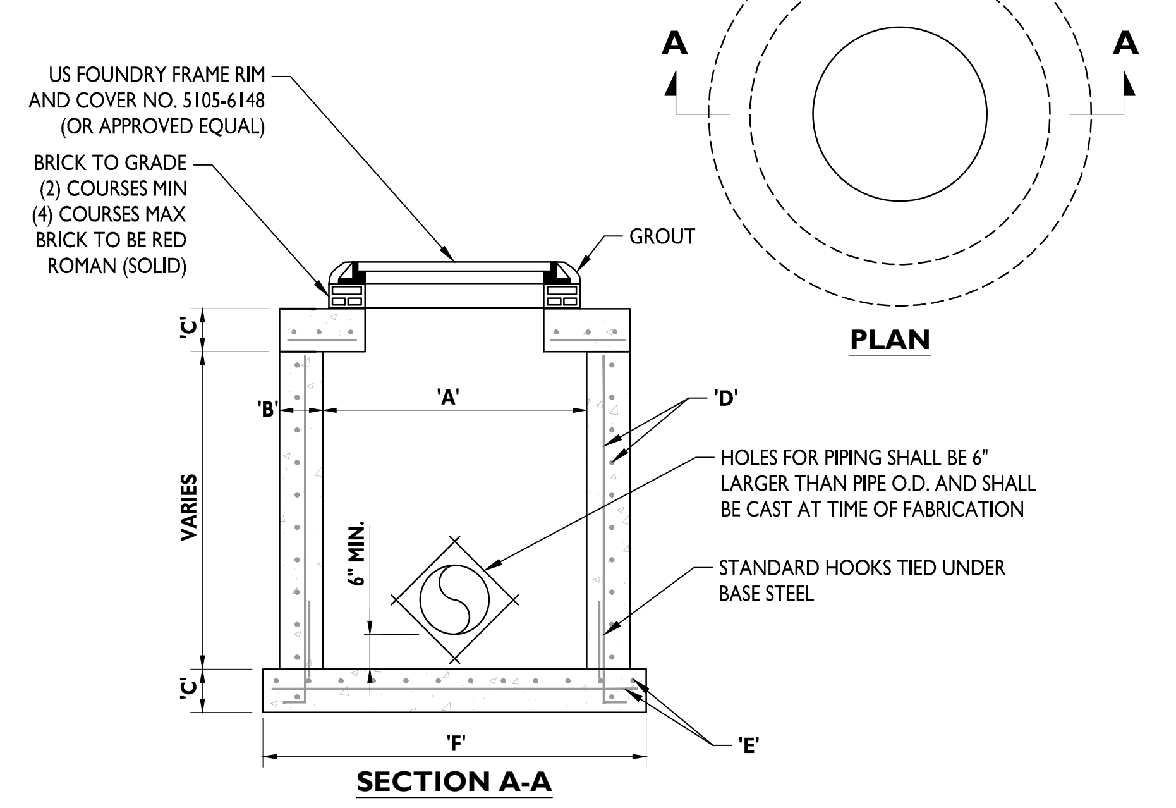
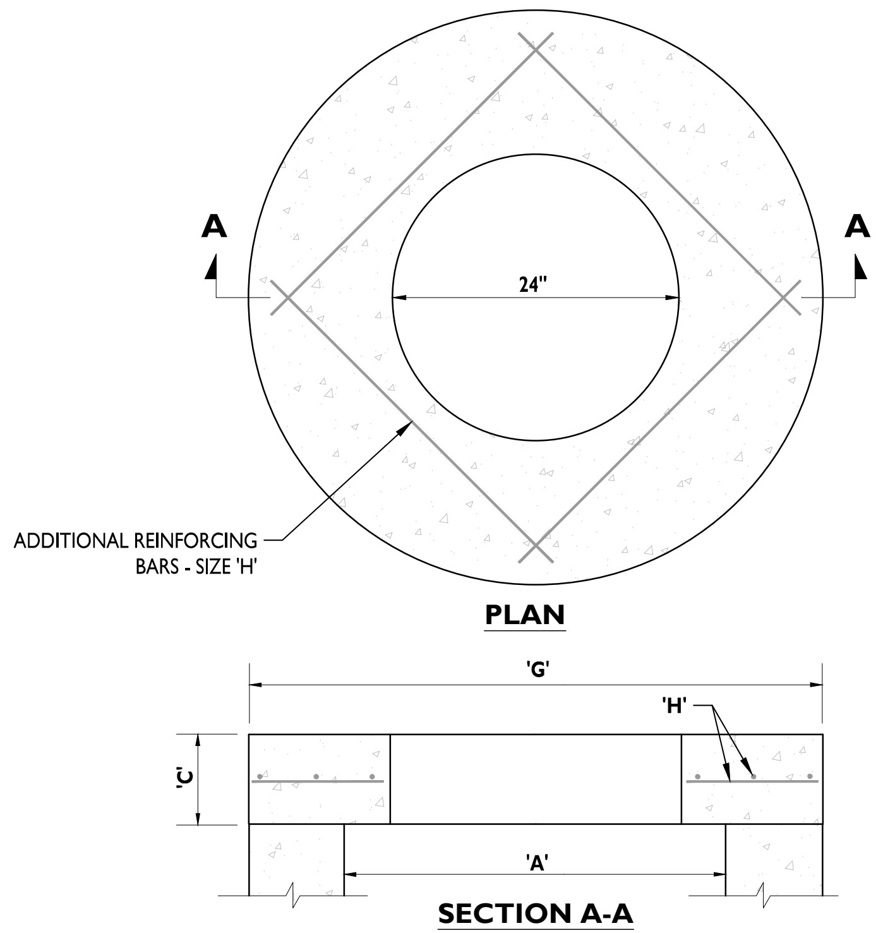
EXFILTRATION TRENCH TYPE 'D' DETAIL (NTS)


US FOUNDRY FRAME RIM AND COVER NO. 5105-6148 (OR APPROVED EQUAL)
BRICK TO GRADE (2) COURSES MIN (4) COURSES MAX BRICK TO BE RED ROMAN (SOLID)
GROUT
'C'
'B'
'A'
'D'
VARIES
6" MIN.
HOLES FOR PIPING SHALL BE 6" LARGER THAN PIPE O.D. AND SHALL BE CAST AT TIME OF FABRICATION
STANDARD HOOKS TIED UNDER BASE STEEL
'C'
'F'
'E'
SECTION A-A
A
A
PLAN

TYPE	'A'	'B'	'C'	'D'	'E'	'F'
C-3	3'-0" Ø	6"	6"	# 4 @ 12" O.C.E.W.	# 4 @ 12" O.C.E.W.	5'-0" Ø
C-4	4'-0" Ø	8"	8"	# 4 @ 12" O.C.E.W.	# 4 @ 12" O.C.E.W.	6'-4" Ø
C-5	5'-0" Ø	8"	8"	# 5 @ 12" O.C.E.W.	# 5 @ 12" O.C.E.W.	7'-4" Ø
C-6	6'-0" Ø	8"	8"	# 5 @ 12" O.C.E.W.	# 5 @ 6" O.C.E.W.	8'-4" Ø
C-7	7'-0" Ø	8"	8"	# 5 @ 12" O.C.E.W.	# 5 @ 6" O.C.E.W.	9'-4" Ø
C-8	8'-0" Ø	10"	10"	2-W.W.M. w/ # 4 @ 12" C.C. VERT	# 5 @ 6" O.C.E.W.	10'-8" Ø

PRECAST CIRCULAR DRAINAGE MANHOLE (NTS)



TYPE	'A'	'C'	'G'	'H'
C-3	3'-0" Ø	6"	4'-0" Ø	# 4 @ 6" O.C.E.W.
C-4	4'-0" Ø	8"	5'-4" Ø	# 4 @ 6" O.C.E.W.
C-5	5'-0" Ø	8"	6'-4" Ø	# 5 @ 8" O.C.E.W.
C-6	6'-0" Ø	8"	7'-4" Ø	# 5 @ 6" O.C.E.W.
C-7	7'-0" Ø	8"	8'-4" Ø	# 5 @ 6" O.C.E.W.
C-8	8'-0" Ø	10"	9'-8" Ø	# 5 @ 6" O.C.E.W.

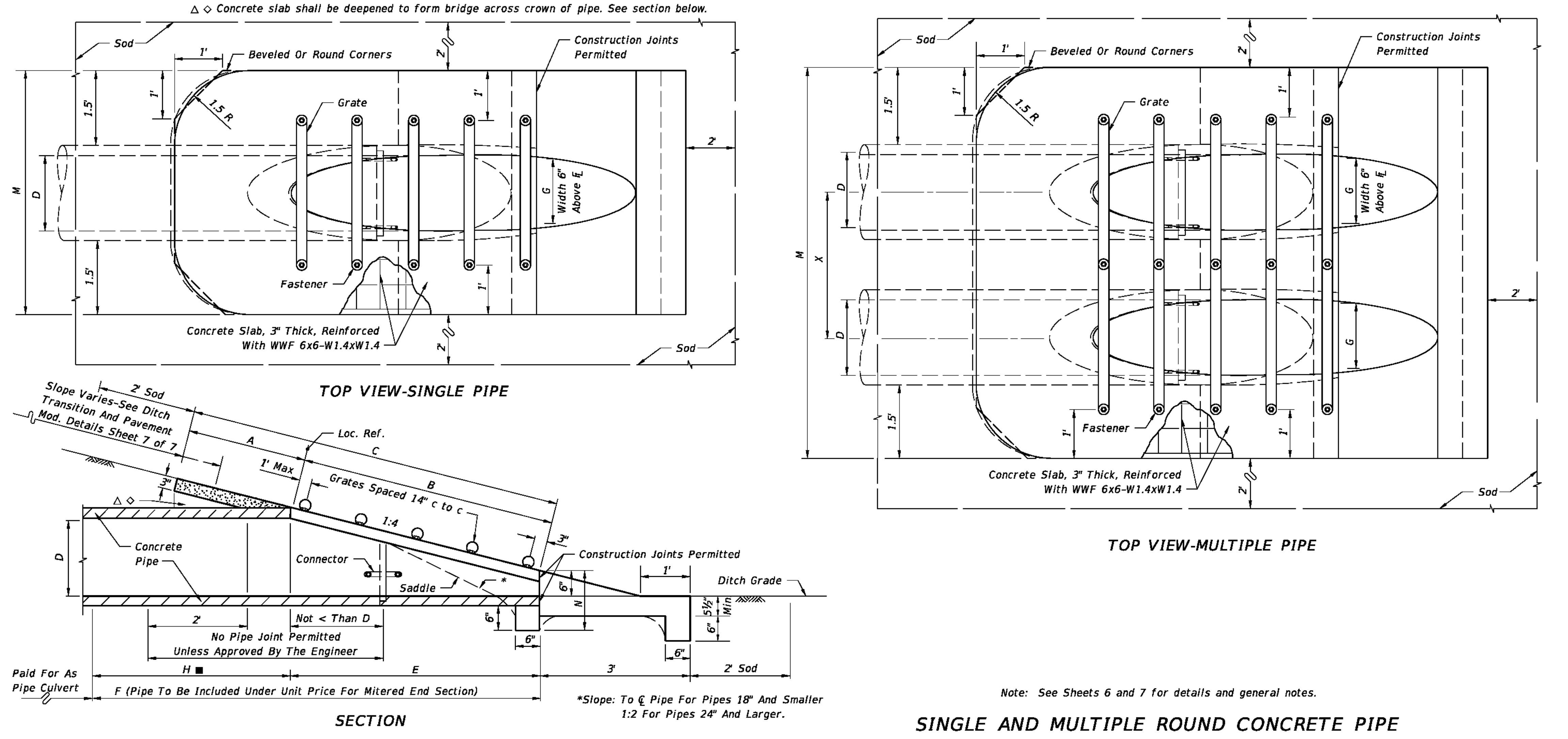
PRECAST TOP SLAB FOR CIRCULAR MANHOLE (NTS)

DIMENSIONS & QUANTITIES

D	X	A	B	C	E	F	G	H ■	M				N	GRATE SIZES		CONCRETE (Cu. Yds.)				SODDING (Sq. Yds.)			
									Single Pipe	Double Pipe	Triple Pipe	Quad Pipe		Standard Weight Pipe	Extra Strong Pipe	Single Pipe	Double Pipe	Triple Pipe	Quad Pipe	Single Pipe	Double Pipe	Triple Pipe	Quad Pipe
15"	2'-7"	2.27'	4.09'	6.36'	4.03'	8'	1.22'	4.0'	4.63'	7.21'	9.79'	12.37'	1.19'			0.76	1.16	1.54	1.94	8	10	11	12
18"	2'-10"	2.36'	5.12'	7.48'	5.03'	9'	1.41'	4.0'	4.92'	7.75'	10.58'	13.42'	1.21'			0.85	1.28	1.71	2.17	9	10	12	13
24"	3'-5"	2.53'	7.18' △	9.71'	7.03' △	11'	1.73'	4.0'	5.50'	8.92'	12.33'	15.75'	1.25'			1.02	1.58	2.15	2.75	10	12	13	15
30"	4'-3"	2.70'	9.25'	11.95'	9.03'	13'	2.00'	4.0'	6.08'	10.33'	14.58'	18.83'	1.29'	2½"	3"	1.23	1.98	2.74	3.50	12	14	15	17
36"	5'-1"	2.87'	11.31' ◇	14.18'	11.03' ◇	15'	2.24'	4.0'	6.67'	11.75'	16.83'	21.92'	1.33'	2½"	3"	1.40	2.38	3.33	4.24	13	15	17	20
42"	6'-0"	3.05'	13.37'	16.42'	13.03'	17'	2.45'	4.0'	7.25'	13.25'	19.25'	25.25'	1.38'	2½"	3½"	1.60	2.83	4.04	5.26	14	17	19	22
48"	6'-9"	3.22'	15.43'	18.65'	15.03'	19'	2.65'	4.0'	7.83'	14.58'	21.33'	28.08'	1.42'	2½"	3½"	1.81	3.26	4.70	6.14	15	18	21	24
54"	7'-8"	3.39'	17.49'	20.88'	17.03'	21'	2.83'	4.0'	8.42'	16.08'	23.75'	31.42'	1.46'	3"	4"	2.03	3.78	5.54	7.28	17	20	23	27
60"	8'-6"	3.56'	19.55'	23.11'	19.03'	23'	3.00'	4.0'	9.00'	17.50'	26.00'	34.50'	1.50'	3"	4"	2.28	4.36	6.43	8.50	18	22	25	29

△ 6.42' △ 6.25' Dimensions permitted to allow use of 8' standard pipe lengths.
◇ 10.40' ◇10.10' Dimensions permitted to allow use of 12' standard pipe lengths.
△ ◇ Concrete slab shall be deepened to form bridge across crown of pipe. See section below.

■ Values shown for estimating pipe quantities and are for information only.



*Slope: To ℄ Pipe For Pipes 18" And Smaller 1:2 For Pipes 24" And Larger.

Note: See Sheets 6 and 7 for details and general notes.

SINGLE AND MULTIPLE ROUND CONCRETE PIPE

LAST REVISION	REVISION	DESCRIPTION:	FDOT DESIGN STANDARDS FY 2012/2013	SIDE DRAIN MITERED END SECTION	INDEX NO.	SHEET NO.
02					273	1

12/30/2011 11:40:02 AM rd960rh

REVISIONS

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BARDEZ
5048 POINTE EMERALD LANE; BOCA RATON, FL 33486
(0) 561-465-5949 | (e) nbarnett@bardezco.com

PROJECT DESCRIPTION
VILLA RICHEY
SITE ADDRESS: 4206/4210 MADISON ST.
NEW PORT RICHEY, FL
PROPERTY ID: 16-26-16-0010-06100-0010
PREPARED FOR: VILLA RICHEY, LLC

E-CERTIFICATION

No. 72006

Digitally signed by NOEL BARNETT
Date: 2024.03.26 16:41:25 -04'00'

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PROFESSIONAL ENGINEER
FL LICENSE NO. 72006
FL BUSINESS C.A. NO.: 32223

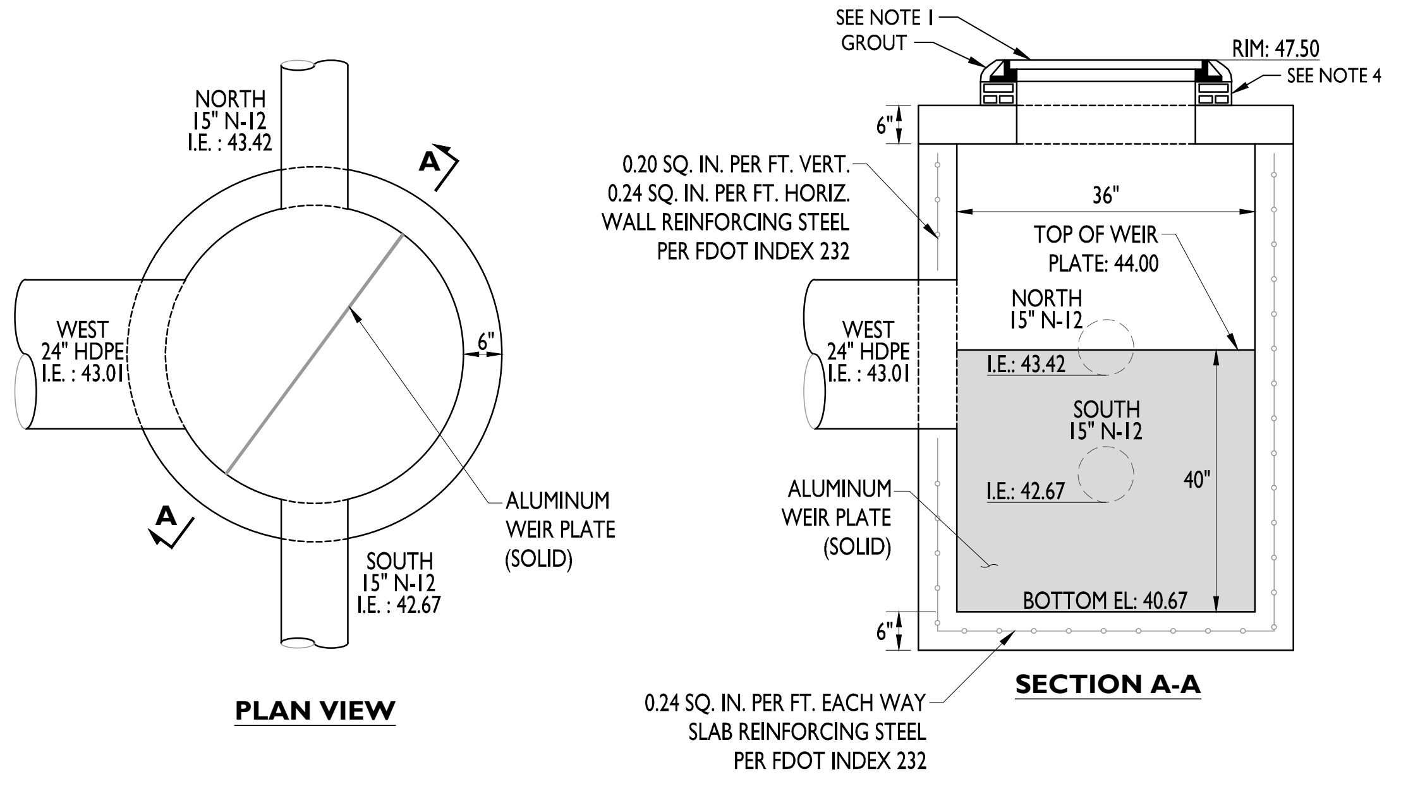
SHEET TITLE

ENGINEERING DETAILS

SHEET ID

C-4.3

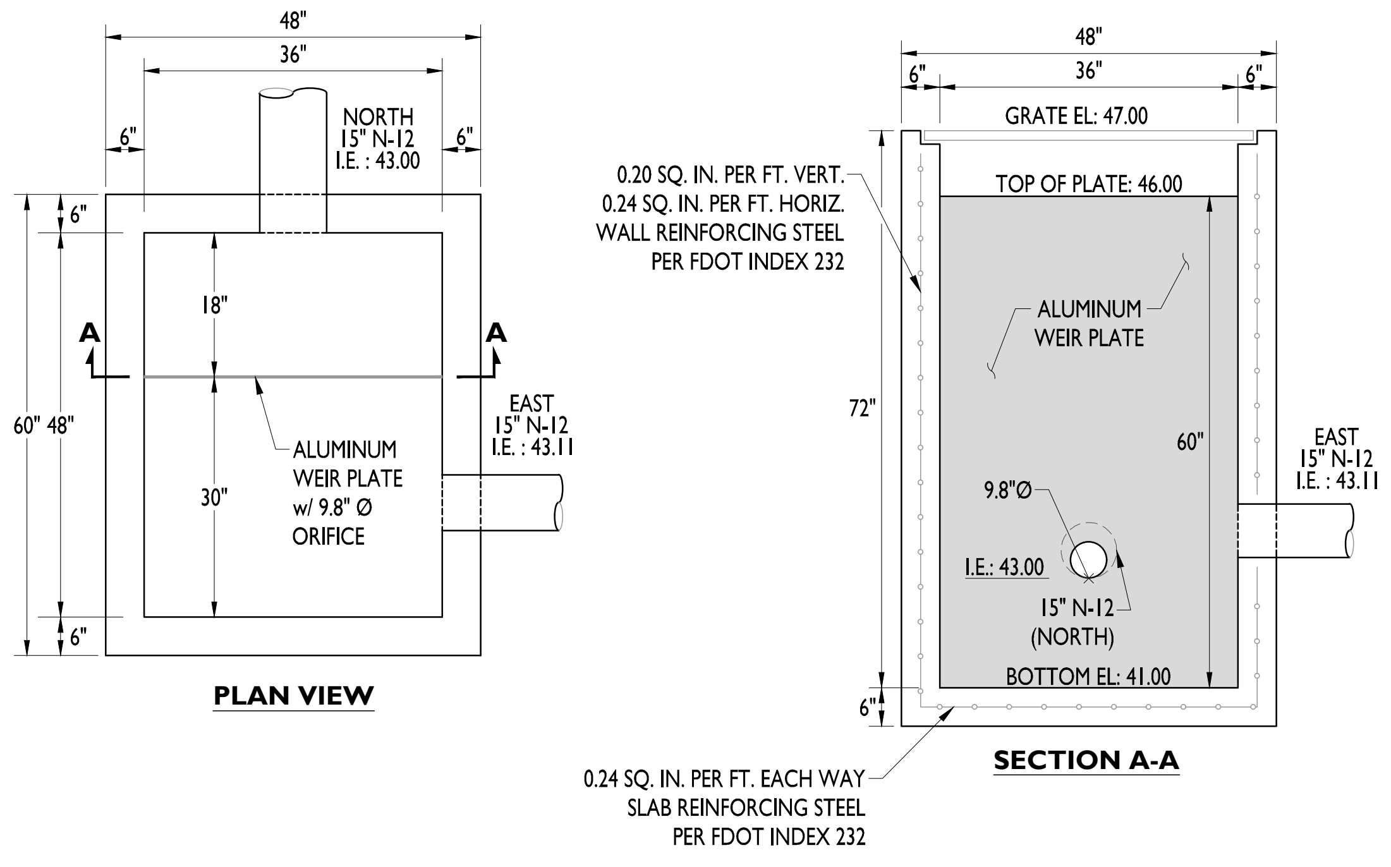
PASCO COUNTY AUTHORIZED
These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.



NOTES:

1. US FOUNDRY FRAME RIM AND COVER NO. 5105-6148 (OR APPROVED EQUAL)
2. ELEVATIONS NOTED WITHIN THIS DETAIL REFERENCE TO THE NAVD-88 VERTICAL DATUM
3. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE = 4,000 PSI @28 DAYS
4. BRICK TO GRADE (2) COURSES MIN (4) COURSES MAX. BRICK TO BE RED ROMAN (SOLID)

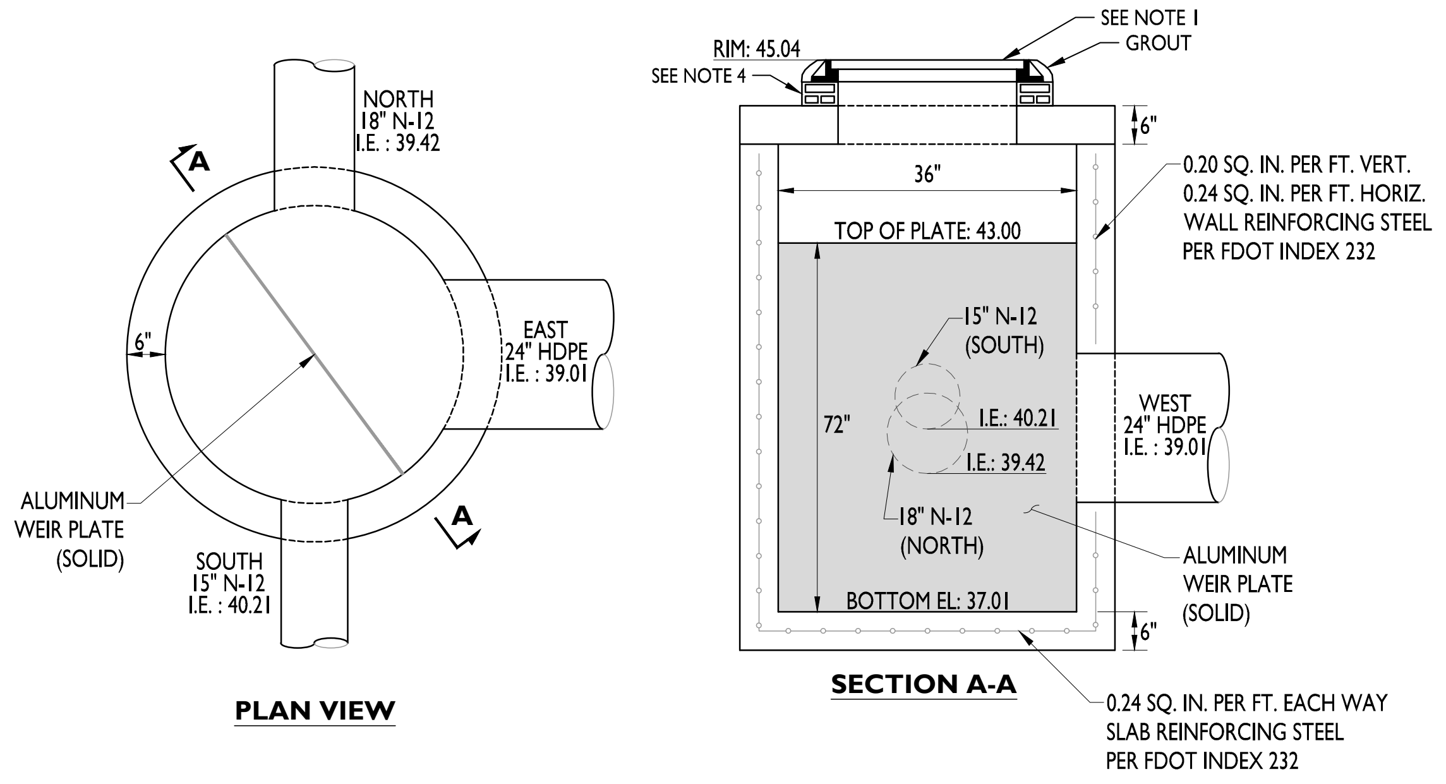
STRUCTURE NO. U1 DETAIL (NTS)



NOTES:

1. STRUCTURE GRATE TO BE TYPE 'D' STEEL GRADE PER FDOT INDEX 232, OR APPROVED EQUAL
2. ELEVATIONS NOTED WITHIN THIS DETAIL REFERENCE TO THE NAVD-88 VERTICAL DATUM
3. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE = 4,000 PSI @28 DAYS

STRUCTURE NO. U2 DETAIL (NTS)



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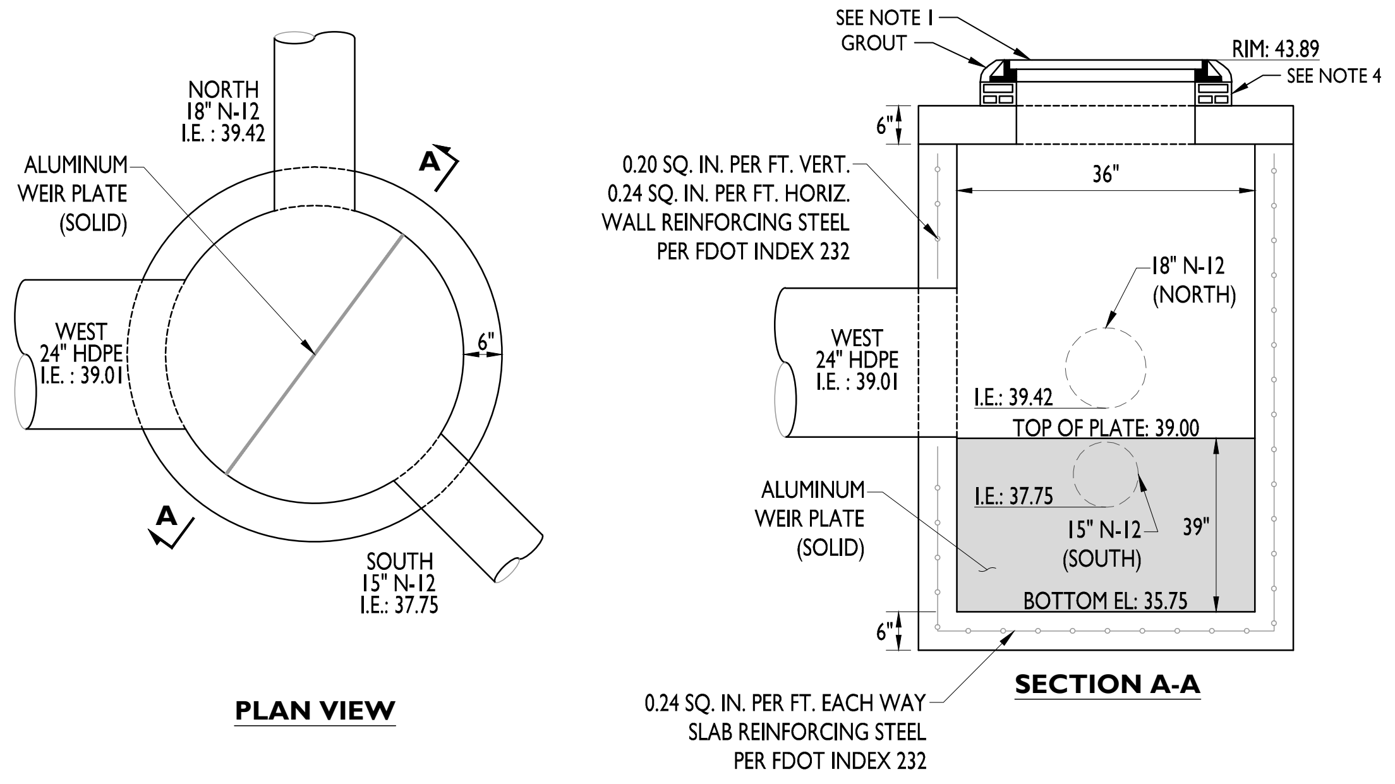
STRUCTURE NO. U3 DETAIL (NTS)



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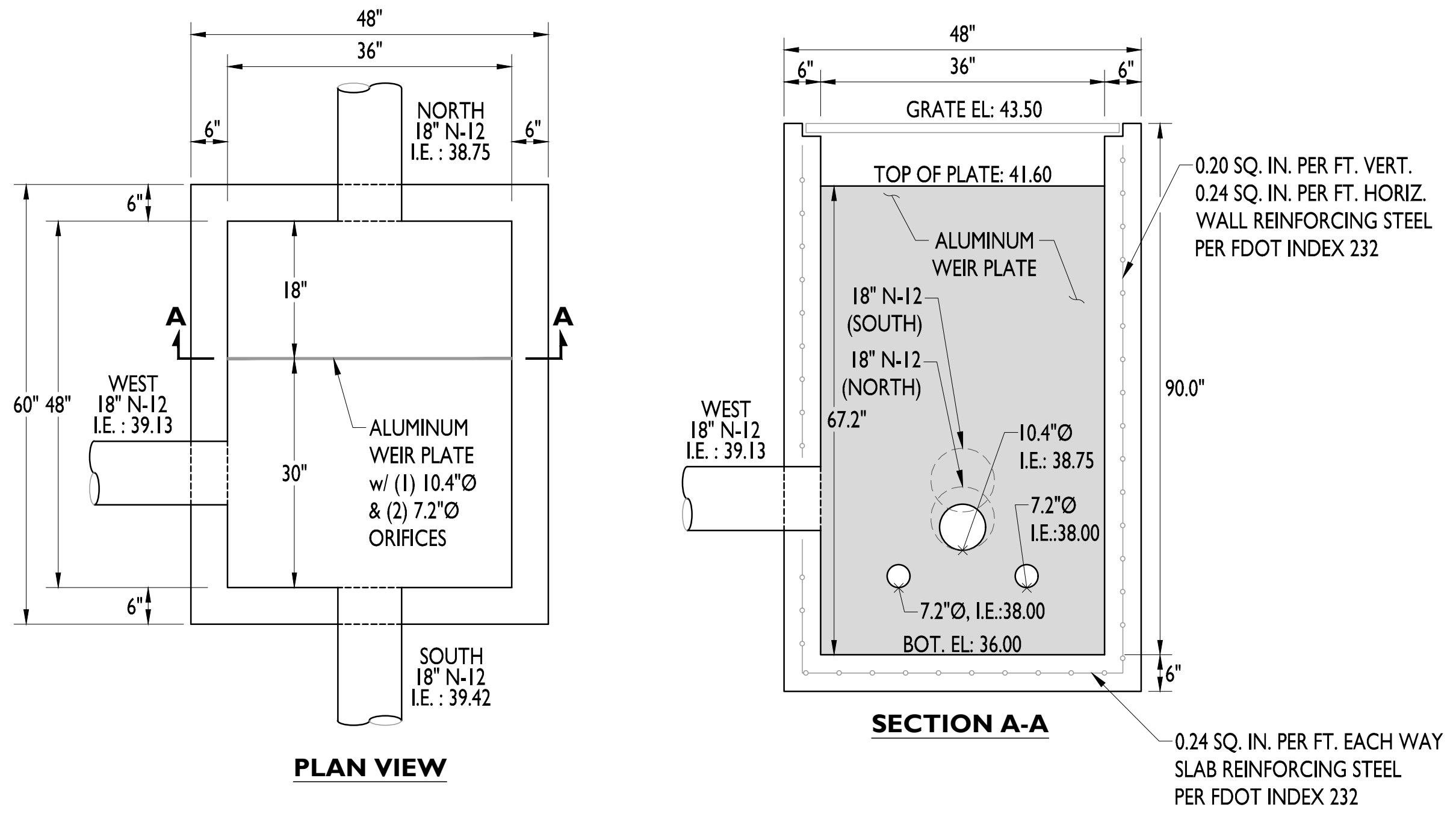
STRUCTURE NO. U4 DETAIL (NTS)



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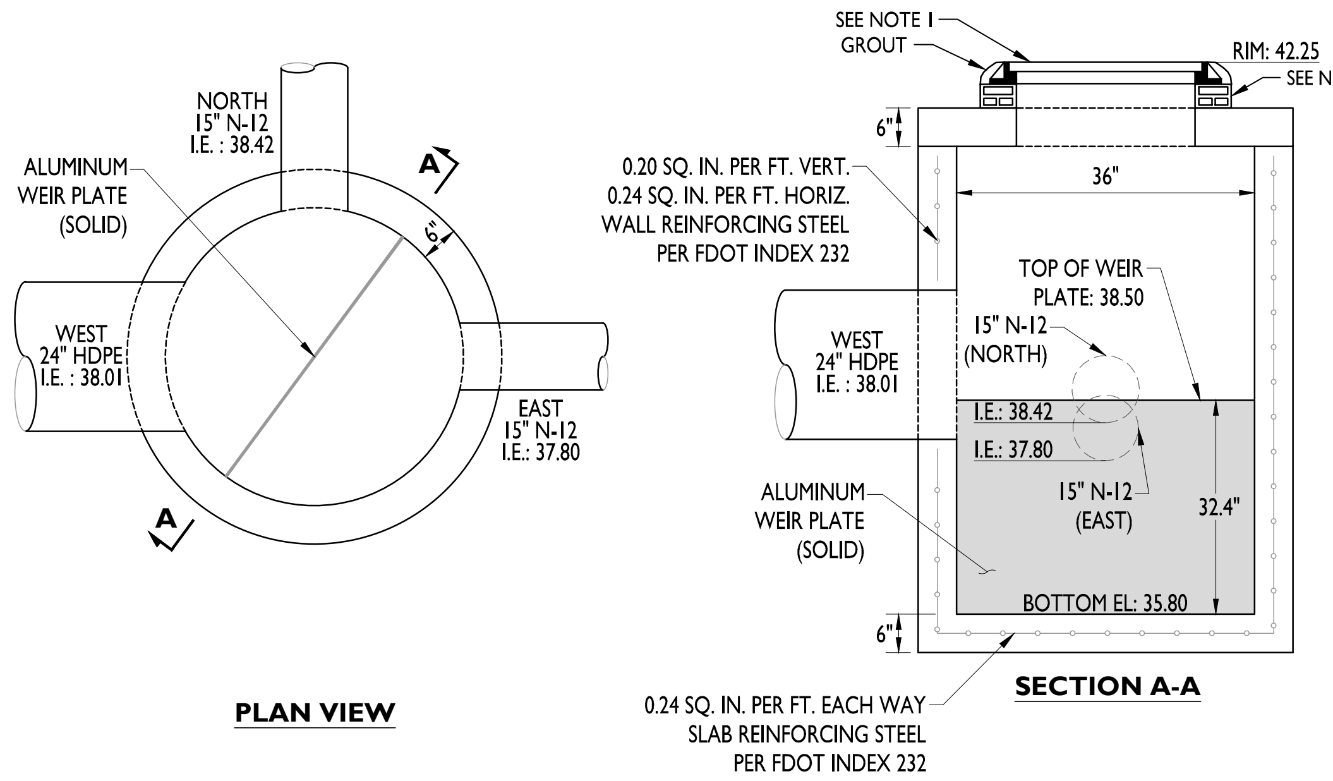
STRUCTURE NO. U5 DETAIL (NTS)



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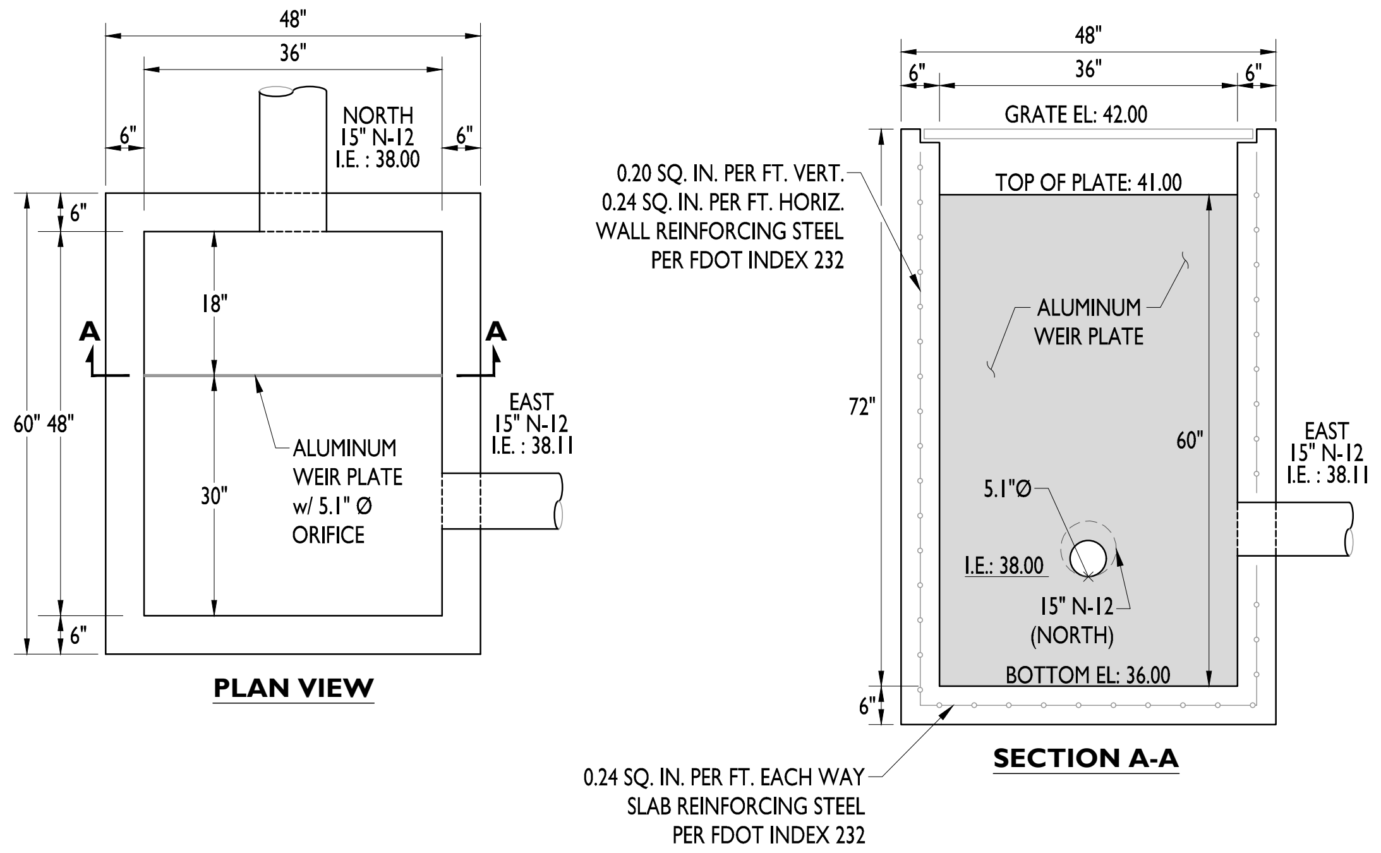
STRUCTURE NO. U6 DETAIL (NTS)



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STRUCTURE NO. U7 DETAIL (NTS)

REVISIONS

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BARDEZ

5048 POINTE EMERALD LANE; BOCA RATON, FL 33486
(O) 561-465-5949 | (e) nbarnett@bardezco.com

PROJECT DESCRIPTION

VILLA RICHEY

SITE ADDRESS: 4206/4210 MADISON ST.
NEW PORT RICHEY, FL

PROPERTY ID: 16-26-16-0010-06100-0010

PREPARED FOR: VILLA RICHEY, LLC

E-CERTIFICATION

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FL LICENSE NO. 72006
FL BUSINESS C.A. NO.: 32223

SHEET TITLE

ENGINEERING DETAILS

SHEET ID

C-4.4

PROJECT INFORMATION

ENGINEERED PRODUCT MANAGER:	EVAN CRALL 863-221-8375 EVAN.CRALL@ADSPIPE.COM
ADS SALES REP:	JOHN TRIVENTO 407-751-9389 JOHNL.TRIVENTO@ADSPIPE.COM
PROJECT NO:	S357624

Advanced Drainage Systems, Inc.

ADS SiteAssist™
FOR STORMTECH
INSTALLATION INSTRUCTIONS
VISIT OUR WEBSITE

VILLA RICHEY

NEW PORT RICHEY, FL

SC-740 STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH SC-740.
2. CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
3. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
4. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
5. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
6. CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
7. REQUIREMENTS FOR HANDLING AND INSTALLATION:
    - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
    - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
    - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 550 LBS/FT/%. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
8. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
    - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
    - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
    - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-740 SYSTEM

1. STORMTECH SC-740 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTECH SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
    - STONESHOOTER LOCATED OFF THE CHAMBER BED.
    - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
    - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
6. MAINTAIN MINIMUM - 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
7. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4-2" (20-50 mm).
8. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
9. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

1. STORMTECH SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
2. THE USE OF CONSTRUCTION EQUIPMENT OVER SC-740 CHAMBERS IS LIMITED:
    - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
    - NO RUBBER TIRED LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
    - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

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PROPOSED SYSTEM UG-1 LAYOUT

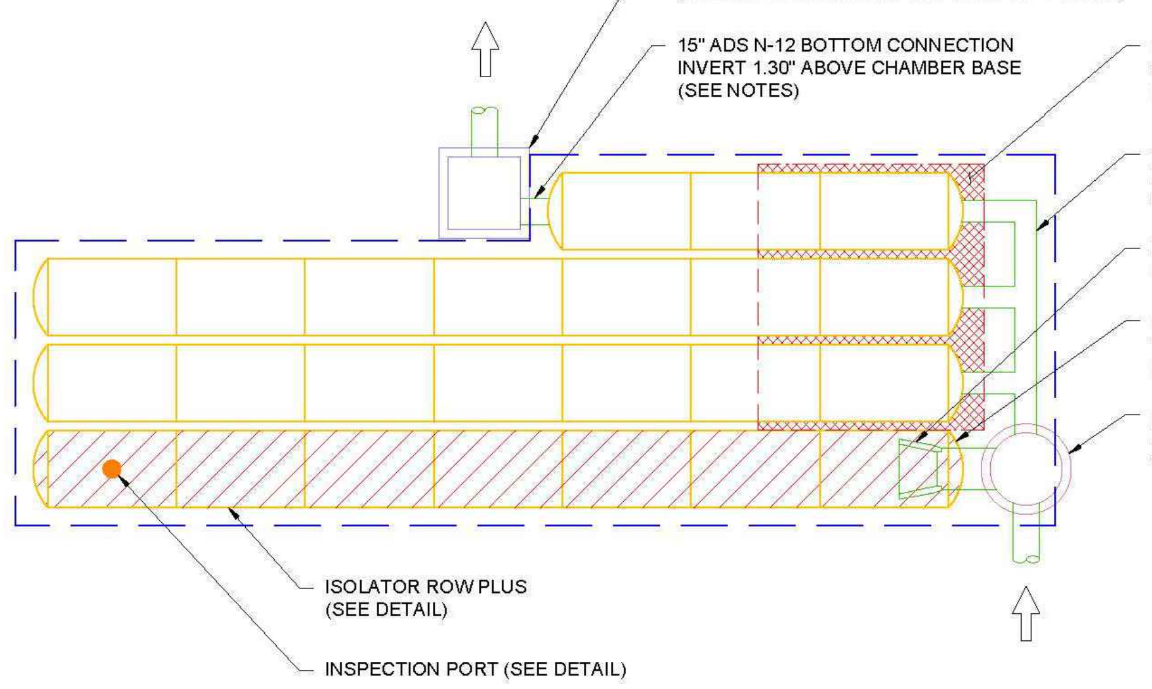
24	STORMTECH SC-740 CHAMBERS
8	STORMTECH SC-740 END CAPS
6	STONE ABOVE (in)
6	STONE BELOW (in)
40	% STONE VOID
1044	SYSTEM AREA (ft²)
156	SYSTEM PERIMETER (ft)

PROPOSED SYSTEM UG-1 ELEVATIONS

53.50	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)
47.50	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)
47.00	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC)
47.00	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)
47.00	MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT)
46.00	TOP OF STONE
45.50	TOP OF SC-740 CHAMBER
44.04	12" TOP MANIFOLD INVERT
43.11	15" BOTTOM CONNECTION INVERT
43.01	24" ISOLATOR ROW PLUS CONNECTION INVERT
43.00	BOTTOM OF SC-740 CHAMBER
42.50	BOTTOM OF STONE

NOTES

- MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECHNICAL NOTE 6.32 FOR MANIFOLD SIZING GUIDANCE.
- DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
- THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.
- THIS CHAMBER SYSTEM WAS DESIGNED WITHOUT SITE-SPECIFIC INFORMATION ON SOIL CONDITIONS OR BEARING CAPACITY. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE SOIL AND PROVIDING THE BEARING CAPACITY OF THE INSITU SOILS. THE BASE STONE DEPTH MAY BE INCREASED OR DECREASED ONCE THIS INFORMATION IS PROVIDED.
- THE SITE DESIGN ENGINEER MUST REVIEW THE PROXIMITY OF THE CHAMBERS TO THE RETAINING WALL AND CONSIDER EFFECTS OF POSSIBLE SATURATED SOILS ON THE RETAINING WALL'S INTEGRITY.
- THE SITE DESIGN ENGINEER MUST REVIEW THE PROXIMITY OF THE CHAMBERS TO THE SLOPE AND CONSIDER EFFECTS OF POSSIBLE SATURATED SOILS ON THE SLOPE'S INTEGRITY.



OUTLET STRUCTURE U2 PER PLAN
MAXIMUM OUTLET FLOW 2.7 CFS
(DESIGN BY ENGINEER / PROVIDED BY OTHERS)
15" ADS N-12 BOTTOM CONNECTION
INVERT 1.30" ABOVE CHAMBER BASE
(SEE NOTES)
PLACE MINIMUM 12.5' OF ADSPLUS125 WOVEN GEOTEXTILE
OVER BEDDING STONE AND UNDERNEATH CHAMBER FEET
FOR SCOUR PROTECTION AT ALL CHAMBER INLET ROWS
12" X 12" ADS N-12 TOP MANIFOLD
INVERT 12.50" ABOVE CHAMBER BASE
(SEE NOTES)
INSTALL FLAMP ON 24" ACCESS PIPE
PART#SC74024RAMP
24" EZ END CAP, PART# SC740ECEZ
TYP OF ALL SC-740 24" CONNECTIONS &
24" ISOLATOR ROW PLUS CONNECTIONS
STRUCTURE U1 PER PLAN W/ELEVATED BYPASS MANIFOLD
MAXIMUM INLET FLOW 5.7 CFS
(DESIGN BY ENGINEER / PROVIDED BY OTHERS)
ISOLATOR ROW PLUS
(SEE DETAIL)
INSPECTION PORT (SEE DETAIL)

VILLA RICHEY
NEW PORT RICHEY, FL

DATE:	09/10/23	DRAWN:	HAK
PROJECT #:	S357624	CHECKED:	RWD

DATE	DRWN	CHKD	DESCRIPTION
09-29-23	SLS	SLS	REVISED PER UPDATED PLAN

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4640 TRUEMAN BLVD
HILLIARD, OH 43026

0 10' 20'

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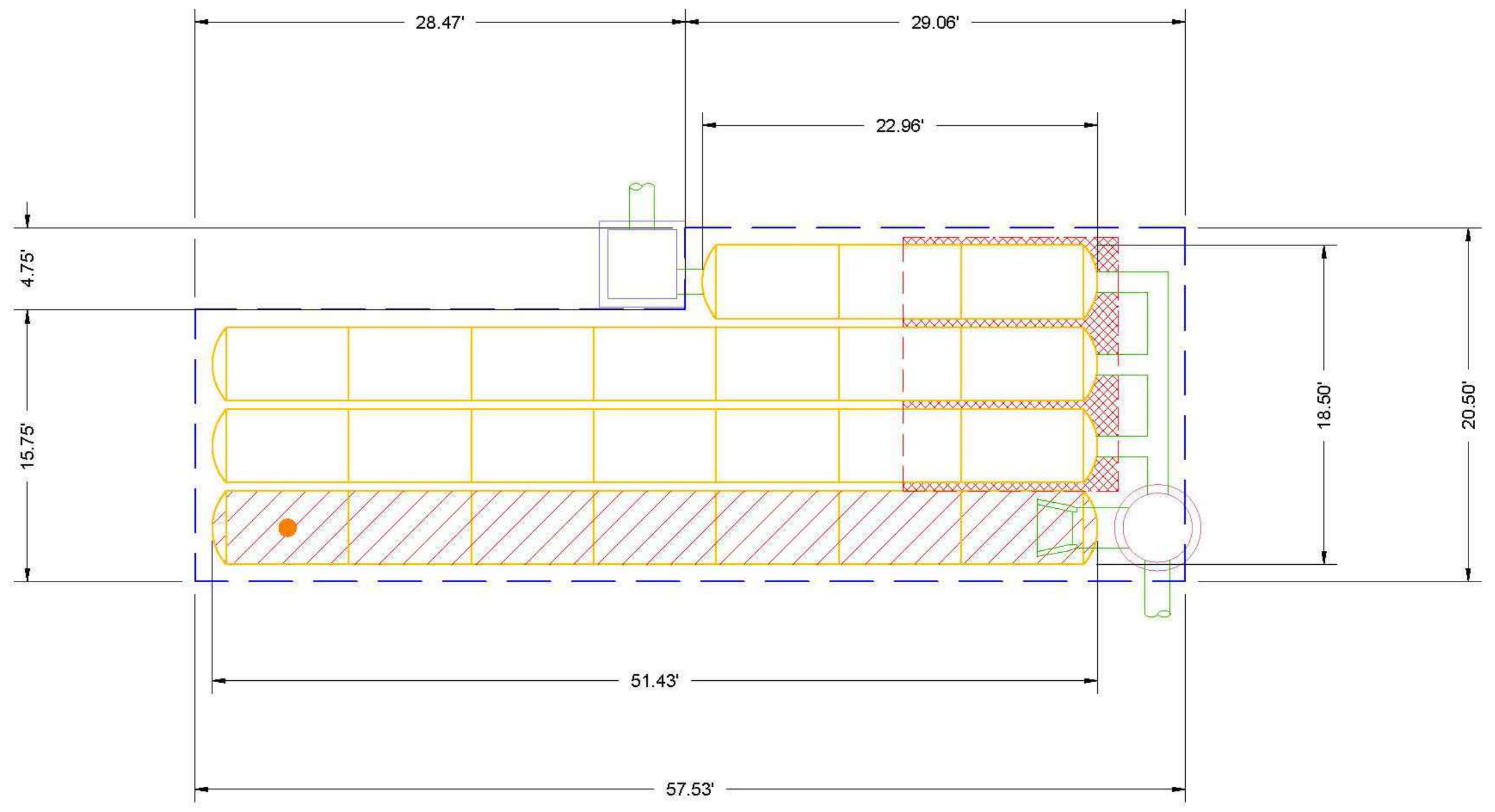
SHEET 2 OF 10



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SHEET 3 OF 10

PROPOSED SYSTEM UG-23 LAYOUT

108	STORMTECH SC-740 CHAMBERS
18	STORMTECH SC-740 END CAPS
6	STONE ABOVE (in)
12	STONE BELOW (in)
40	% STONE VOID
4326	SYSTEM AREA (ft²)
284	SYSTEM PERIMETER (ft)

PROPOSED SYSTEM UG-23 ELEVATIONS

49.50	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)
43.50	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)
43.00	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC)
43.00	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)
43.00	MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT)
42.00	TOP OF STONE
41.50	TOP OF SC-740 CHAMBER
39.42	18" TOP MANIFOLD INVERT
39.13	18" BOTTOM CONNECTION INVERT
39.01	24" ISOLATOR ROW PLUS CONNECTION INVERT
39.00	BOTTOM OF SC-740 CHAMBER
38.00	BOTTOM OF STONE

NOTES

- MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECHNICAL NOTE 6.32 FOR MANIFOLD SIZING GUIDANCE.
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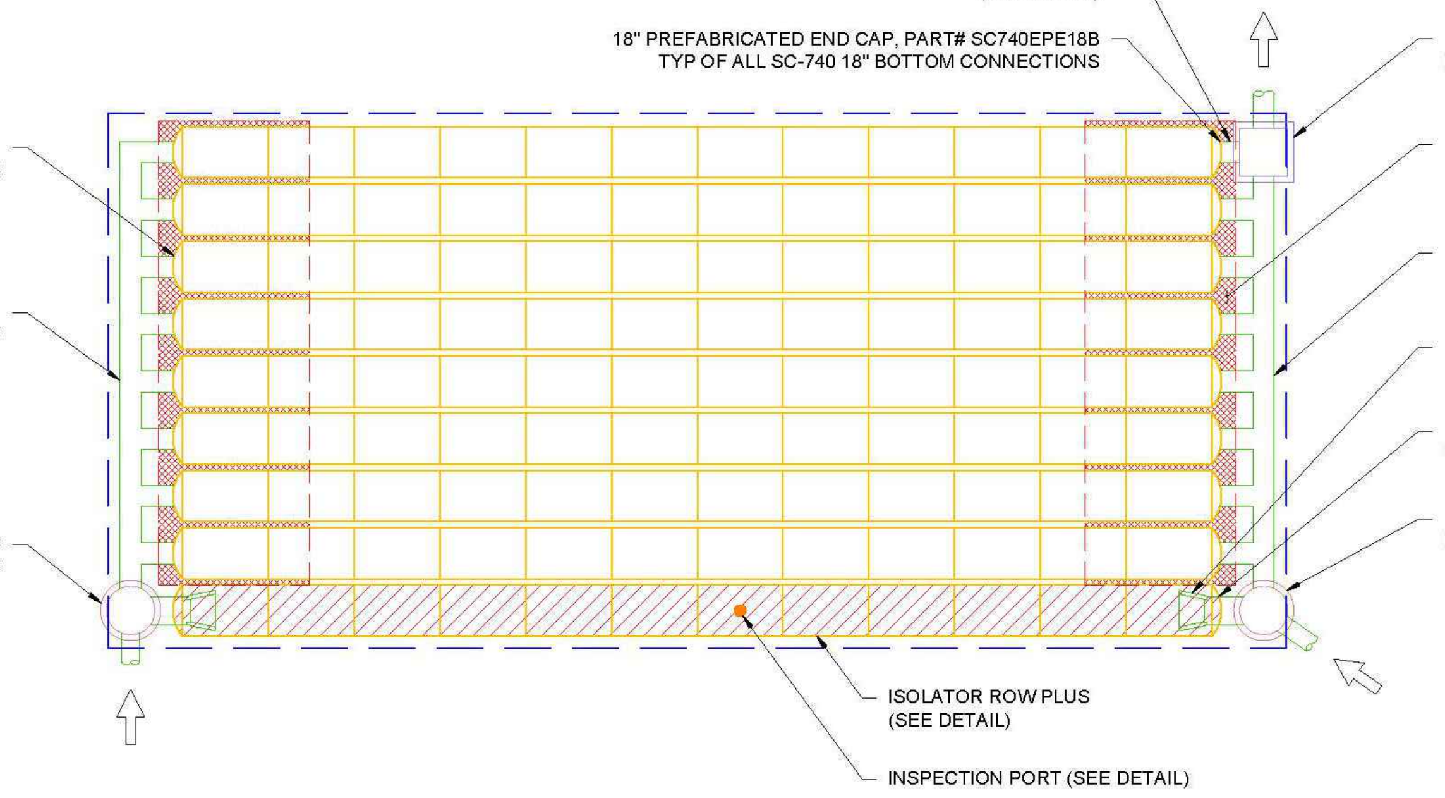

18" ADS N-12 BOTTOM CONNECTION
INVERT 1.60" ABOVE CHAMBER BASE
(SEE NOTES)
18" PREFABRICATED END CAP, PART# SC740EPE18B
TYP OF ALL SC-740 18" BOTTOM CONNECTIONS
18" PREFABRICATED END CAP, PART# SC740EPE18T
TYP OF ALL SC-740 18" TOP CONNECTIONS
18" X 18" ADS N-12 TOP MANIFOLD
INVERT 5.00" ABOVE CHAMBER BASE
(SEE NOTES)
STRUCTURE U3 PER PLAN W/ELEVATED BYPASS MANIFOLD
MAXIMUM INLET FLOW 14.4 CFS
(DESIGN BY ENGINEER / PROVIDED BY OTHERS)
OUTLET STRUCTURE U5 PER PLAN
MAXIMUM OUTLET FLOW 8.0 CFS
(DESIGN BY ENGINEER / PROVIDED BY OTHERS)
PLACE MINIMUM 12.5' OF ADSPLUS125 WOVEN GEOTEXTILE
OVER BEDDING STONE AND UNDERNEATH CHAMBER FEET
FOR SCOUR PROTECTION AT ALL CHAMBER INLET ROWS
18" X 18" ADS N-12 TOP MANIFOLD
INVERT 5.00" ABOVE CHAMBER BASE
(SEE NOTES)
INSTALL FLAMP ON 24" ACCESS PIPE
PART#SC74024RAMP
(TYP 2 PLACES)
24" EZ END CAP, PART# SC740ECEZ
TYP OF ALL SC-740 24" CONNECTIONS &
24" ISOLATOR ROW PLUS CONNECTIONS
STRUCTURE U4 PER PLAN W/ELEVATED BYPASS MANIFOLD
MAXIMUM INLET FLOW 14.0 CFS
(DESIGN BY ENGINEER / PROVIDED BY OTHERS)
ISOLATOR ROW PLUS
(SEE DETAIL)
INSPECTION PORT (SEE DETAIL)

VILLA RICHEY
NEW PORT RICHEY, FL

DATE:	09/10/23	DRAWN:	HAK
PROJECT #:	S357624	CHECKED:	RWD

DATE	DRWN	CHKD	DESCRIPTION
09-29-23	SLS	SLS	REVISED PER UPDATED PLAN

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SHEET 4 OF 10

REVISIONS

REV	DATE	DESCRIPTION
1	---	--- ---
2	---	--- ---
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9	---	--- ---
10	---	--- ---

BARDEZ
5048 POINTE EMERALD LANE; BOCA RATON, FL 33486
(0) 561-465-5949 | (e) nbarnett@bardezco.com

PROJECT DESCRIPTION

VILLA RICHEY

SITE ADDRESS: 4206/4210 MADISON ST.
NEW PORT RICHEY, FL
PROPERTY ID: 16-26-16-0010-06100-0010
PREPARED FOR: VILLA RICHEY, LLC

E-CERTIFICATION

NOEL A. BARNETT
LICENSE No. 72006
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Digitally signed by NOEL BARNETT
Date: 2024.03.26 16:41:55 -04'00'

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY NOEL A. BARNETT, PE ON THE DATE ADJACENT TO THE SEAL.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

CERTIFICATION

DATE: 03-26-2024

NOEL BARNETT
PROFESSIONAL ENGINEER
FL LICENSE NO. 72006
FL BUSINESS C.A. NO.: 32223

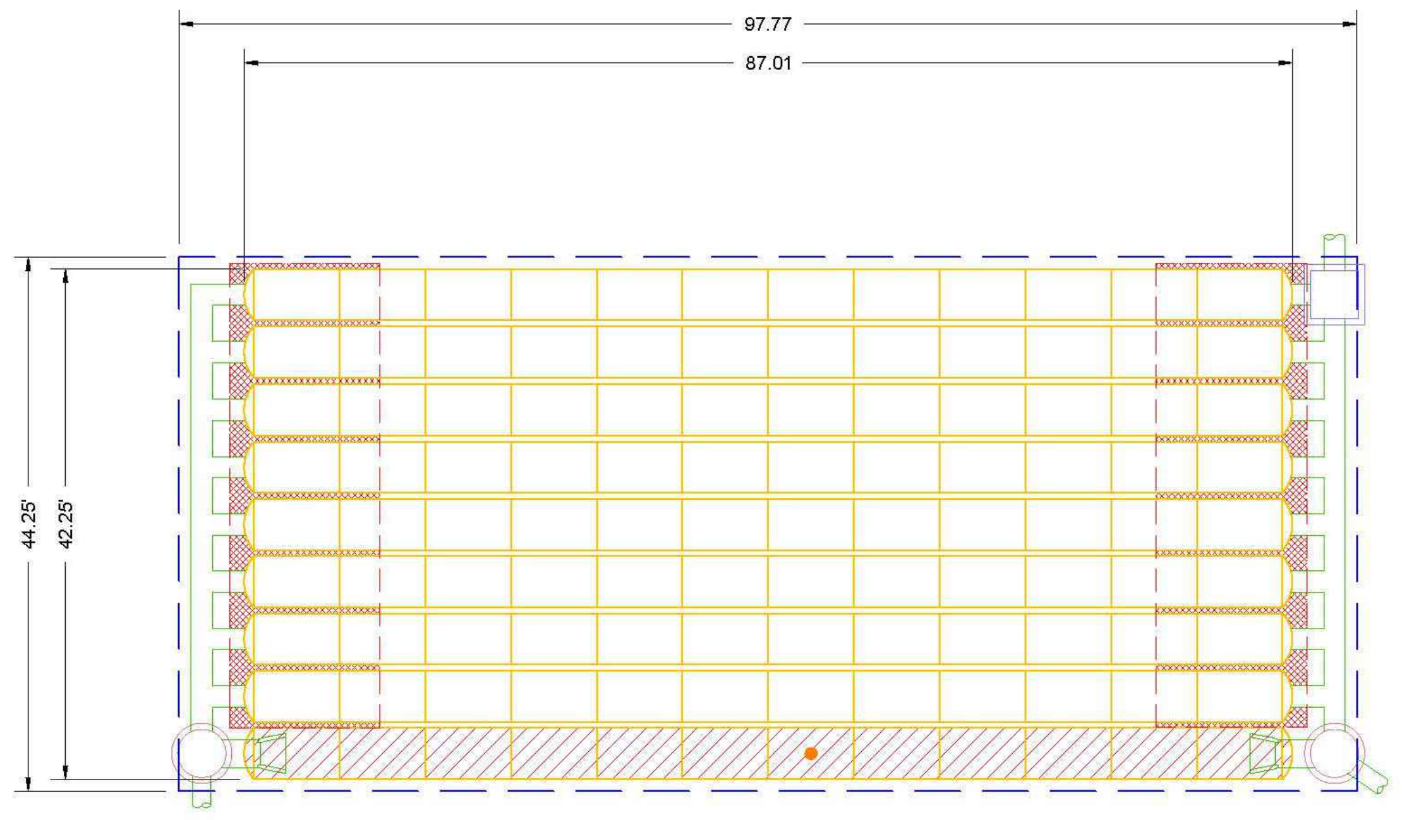
SHEET TITLE

ADS STORM CHAMBER DETAILS

SHEET ID

C-4.5

These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.
AUTHORIZED
PASCO COUNTY FLORIDA



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SHEET 5 OF 10

PROPOSED SYSTEM UG-4 LAYOUT

19	STORMTECH SC-740 CHAMBERS
10	STORMTECH SC-740 END CAPS
6	STONE ABOVE (in)
6	STONE BELOW (in)
40	% STONE VOID
887	SYSTEM AREA (ft²)
123	SYSTEM PERIMETER (ft)

PROPOSED SYSTEM UG-4 ELEVATIONS

48.50	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)
42.50	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)
42.00	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC)
42.00	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)
42.00	MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT)
41.00	TOP OF STONE
40.50	TOP OF SC-740 CHAMBER
38.42	18" TOP MANIFOLD INVERT
38.11	15" BOTTOM CONNECTION INVERT
38.01	24" ISOLATOR ROW PLUS CONNECTION INVERT
38.00	BOTTOM OF SC-740 CHAMBER
37.50	BOTTOM OF STONE

NOTES

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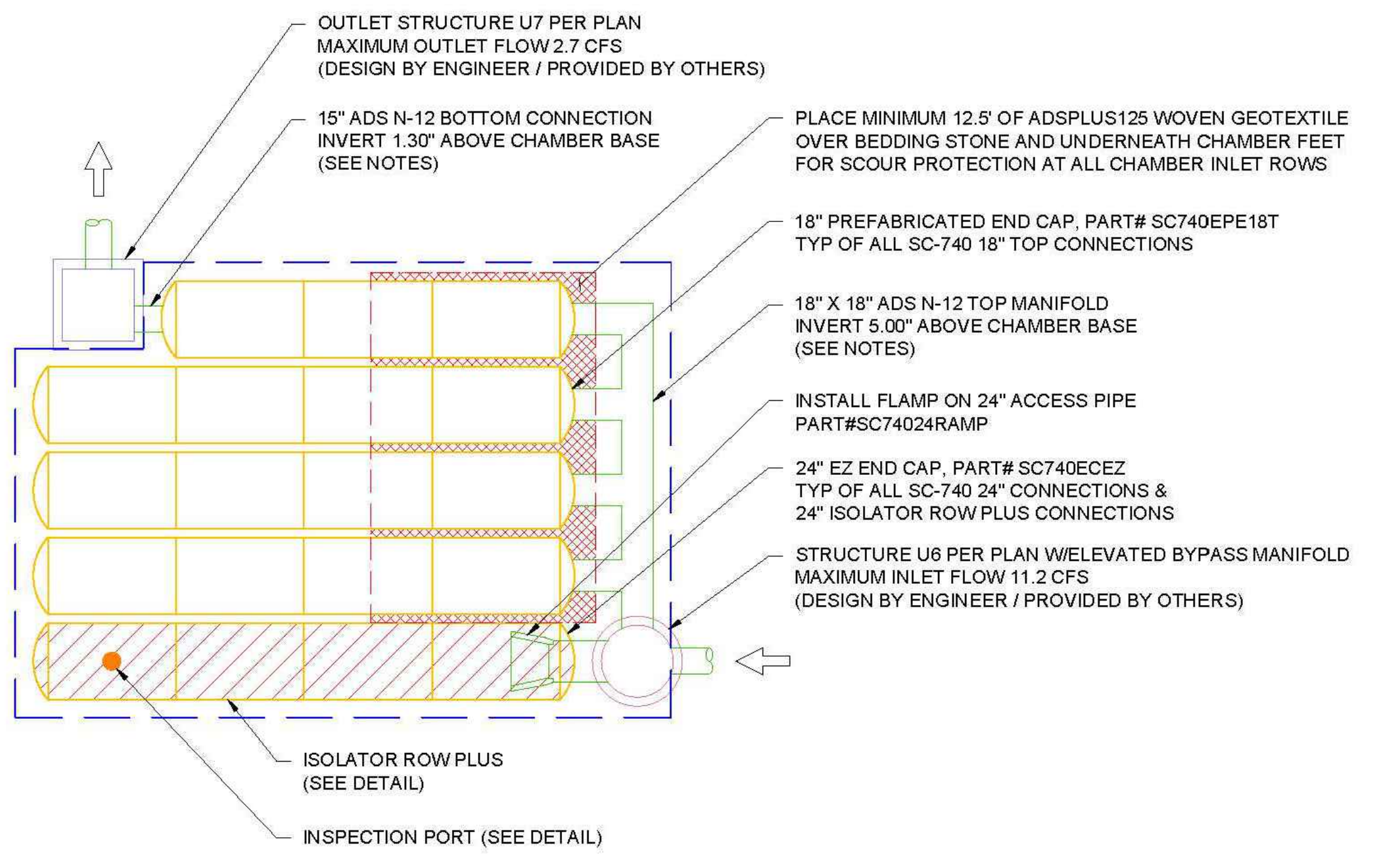
OUTLET STRUCTURE U7 PER PLAN
MAXIMUM OUTLET FLOW 2.7 CFS
(DESIGN BY ENGINEER / PROVIDED BY OTHERS)

15" ADS N-12 BOTTOM CONNECTION
INVERT 1.30" ABOVE CHAMBER BASE
(SEE NOTES)

PLACE MINIMUM 12.5' OF ADSPLUS125 WOVEN GEOTEXTILE
OVER BEDDING STONE AND UNDERNEATH CHAMBER FEET
FOR SCOUR PROTECTION AT ALL CHAMBER INLET ROWS

18" PREFABRICATED END CAP, PART# SC740EPE18T
TYP OF ALL SC-740 18" TOP CONNECTIONS

18" X 18" ADS N-12 TOP MANIFOLD
INVERT 5.00" ABOVE CHAMBER BASE
(SEE NOTES)

INSTALL FLAMP ON 24" ACCESS PIPE
PART#SC74024RAMP

24" EZ END CAP, PART# SC740ECEZ
TYP OF ALL SC-740 24" CONNECTIONS &
24" ISOLATOR ROW PLUS CONNECTIONS

STRUCTURE U6 PER PLAN W/ELEVATED BYPASS MANIFOLD
MAXIMUM INLET FLOW 11.2 CFS
(DESIGN BY ENGINEER / PROVIDED BY OTHERS)

ISOLATOR ROW PLUS
(SEE DETAIL)

INSPECTION PORT (SEE DETAIL)

VILLA RICHEY
NEW PORT RICHEY, FL
DATE: 09/10/23 DRAWN: HAK
PROJECT #: S357624 CHECKED: RWD

DATE	DRWN	CHKD	DESCRIPTION
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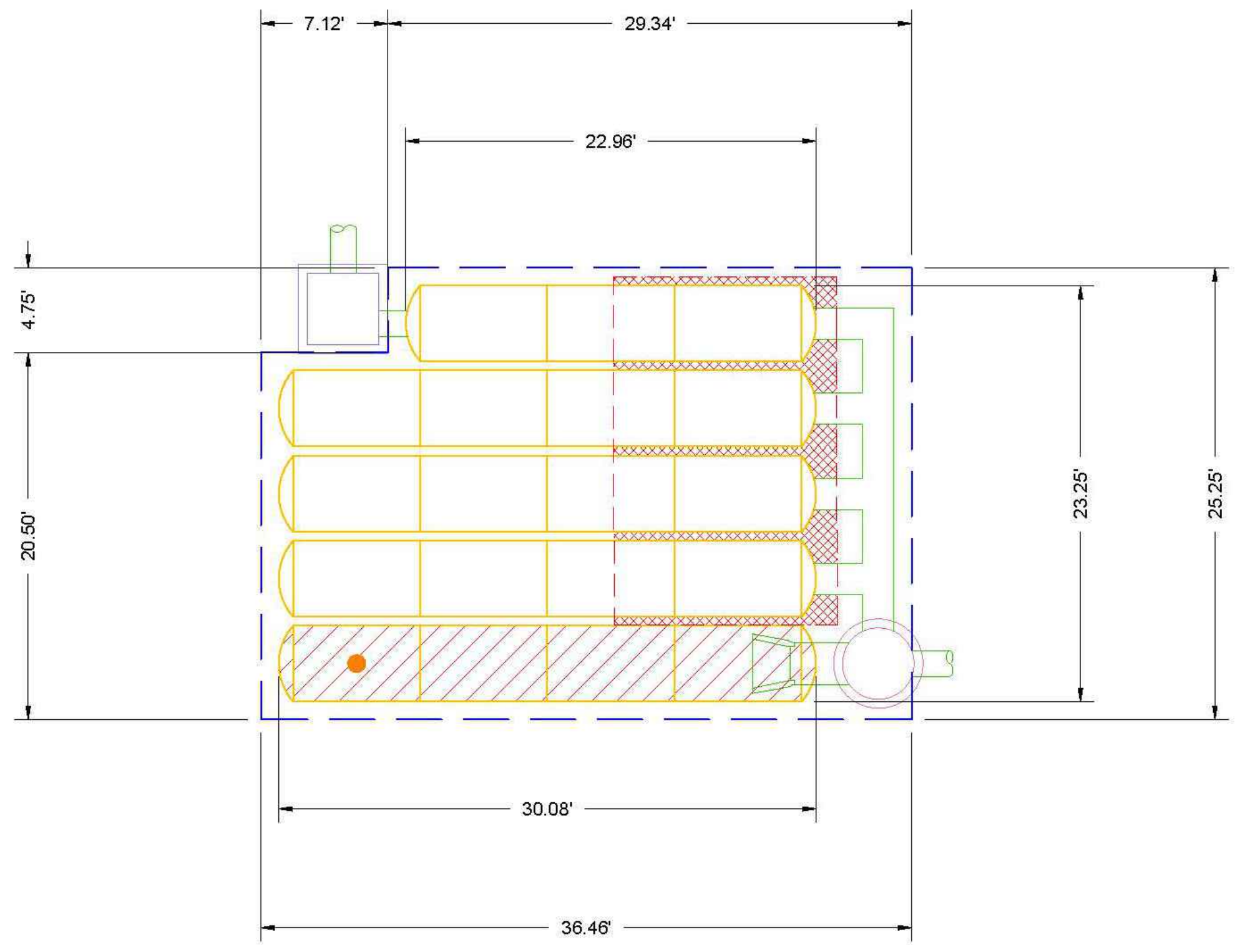
SHEET 6 OF 10



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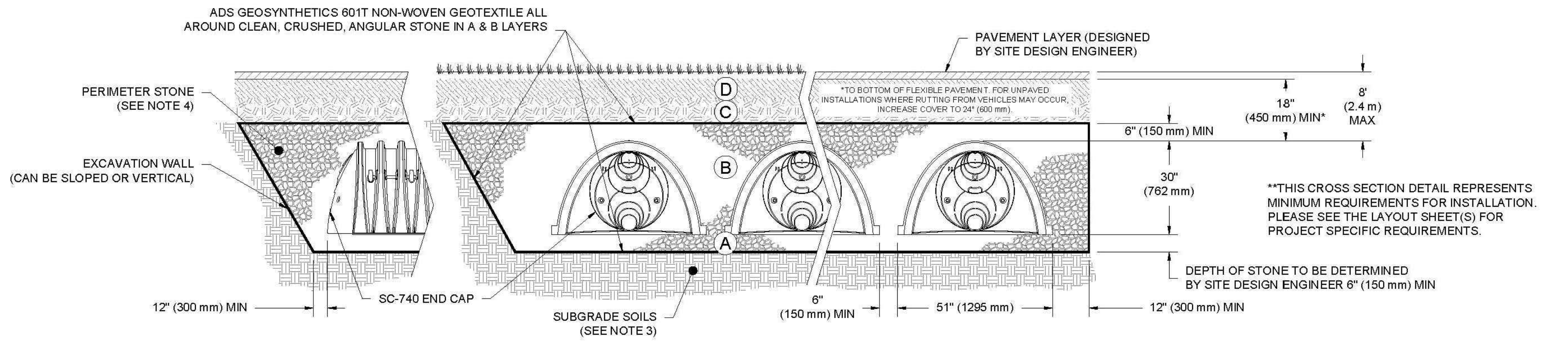
SHEET 7 OF 10

ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

MATERIAL LOCATION		DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	**FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145[1] A-1, A-2-4, A-3 OR AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3]

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.


ADS GEOSYNTHETICS 601T NON-WOVEN GEOTEXTILE ALL AROUND CLEAN, CRUSHED, ANGULAR STONE IN A & B LAYERS
PAVEMENT LAYER (DESIGNED BY SITE DESIGN ENGINEER)
PERIMETER STONE (SEE NOTE 4)
D
C
B
A
*TO BOTTOM OF FLEXIBLE PAVEMENT. FOR UNPAVED INSTALLATIONS WHERE RUTTING FROM VEHICLES MAY OCCUR, INCREASE COVER TO 24" (600 mm).
18" (450 mm) MIN*
8' (2.4 m) MAX
6" (150 mm) MIN
30" (762 mm)
EXCAVATION WALL (CAN BE SLOPED OR VERTICAL)
DEPTH OF STONE TO BE DETERMINED BY SITE DESIGN ENGINEER 6" (150 mm) MIN
12" (300 mm) MIN
SC-740 END CAP
SUBGRADE SOILS (SEE NOTE 3)
6" (150 mm) MIN
51" (1295 mm)
12" (300 mm) MIN

**THIS CROSS SECTION DETAIL REPRESENTS MINIMUM REQUIREMENTS FOR INSTALLATION. PLEASE SEE THE LAYOUT SHEET(S) FOR PROJECT SPECIFIC REQUIREMENTS.

NOTES:

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
2. SC-740 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 550 LBS/FT/%. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

VILLA RICHEY
NEW PORT RICHEY, FL
DATE: 09/10/23 DRAWN: HAK
PROJECT #: S357624 CHECKED: RWD

DATE	DRWN	CHKD	DESCRIPTION
09-29-23	SLS	SLS	REVISED PER UPDATED PLAN

StormTech®
Chamber System
888-892-2694 | WWW.STORMTECH.COM

ADS
4640 TRUEMAN BLVD
HILLIARD, OH 43026

THIS DRAWING HAS BEEN PREPARED BASED ON INFORMATION PROVIDED TO ADS UNDER THE DIRECTION OF THE SITE DESIGN ENGINEER OR OTHER PROJECT REPRESENTATIVE. THE SITE DESIGN ENGINEER SHALL REVIEW THIS DRAWING PRIOR TO CONSTRUCTION. IT IS THE ULTIMATE RESPONSIBILITY OF THE SITE DESIGN ENGINEER TO ENSURE THAT THE PRODUCT(S) DEPICTED AND ALL ASSOCIATED DETAILS MEET ALL APPLICABLE LAWS, REGULATIONS, AND PROJECT REQUIREMENTS.

SHEET 8 OF 10

REVISIONS

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BARDEZ
5048 POINTE EMERALD LANE; BOCA RATON, FL 33486
(0) 561-465-5949 | (e) nbarnett@bardezco.com

PROJECT DESCRIPTION

VILLA RICHEY

SITE ADDRESS: 4206/4210 MADISON ST.
NEW PORT RICHEY, FL
PROPERTY ID: 16-26-16-0010-06100-0010
PREPARED FOR: VILLA RICHEY, LLC

E-CERTIFICATION

No. 72006

Digitally signed by NOEL BARNETT
Date: 2024.03.26 16:42:10 -04'00'

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY NOEL A. BARNETT, PE ON THE DATE ADJACENT TO THE SEAL.

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CERTIFICATION

DATE: 03-26-2024

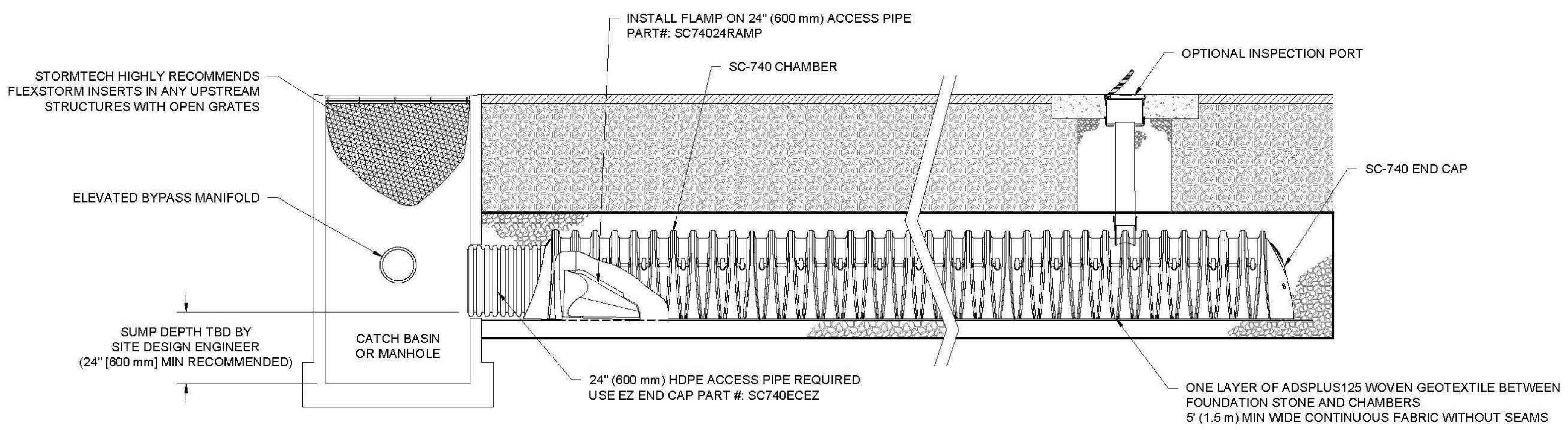
NOEL BARNETT
PROFESSIONAL ENGINEER
FL LICENSE NO. 72006
FL BUSINESS C.A. NO.: 32223

SHEET TITLE

ADS STORM CHAMBER DETAILS

SHEET ID

C-4.6


STORMTECH HIGHLY RECOMMENDS
FLEXSTORM INSERTS IN ANY UPSTREAM
STRUCTURES WITH OPEN GRATES
INSTALL FLAMP ON 24" (600 mm) ACCESS PIPE
PART#: SC74024RAMP
SC-740 CHAMBER
OPTIONAL INSPECTION PORT
SC-740 END CAP
ELEVATED BYPASS MANIFOLD
SUMP DEPTH TBD BY
SITE DESIGN ENGINEER
(24" [600 mm] MIN RECOMMENDED)
CATCH BASIN
OR MANHOLE
24" (600 mm) HDPE ACCESS PIPE REQUIRED
USE EZ END CAP PART #: SC740ECEZ
ONE LAYER OF ADSPLUS125 WOVEN GEOTEXTILE BETWEEN
FOUNDATION STONE AND CHAMBERS
5' (1.5 m) MIN WIDE CONTINUOUS FABRIC WITHOUT SEAMS

SC-740 ISOLATOR ROW PLUS DETAIL

NTS

INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
  - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR PLUS ROWS
  - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
  - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
    - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
    - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

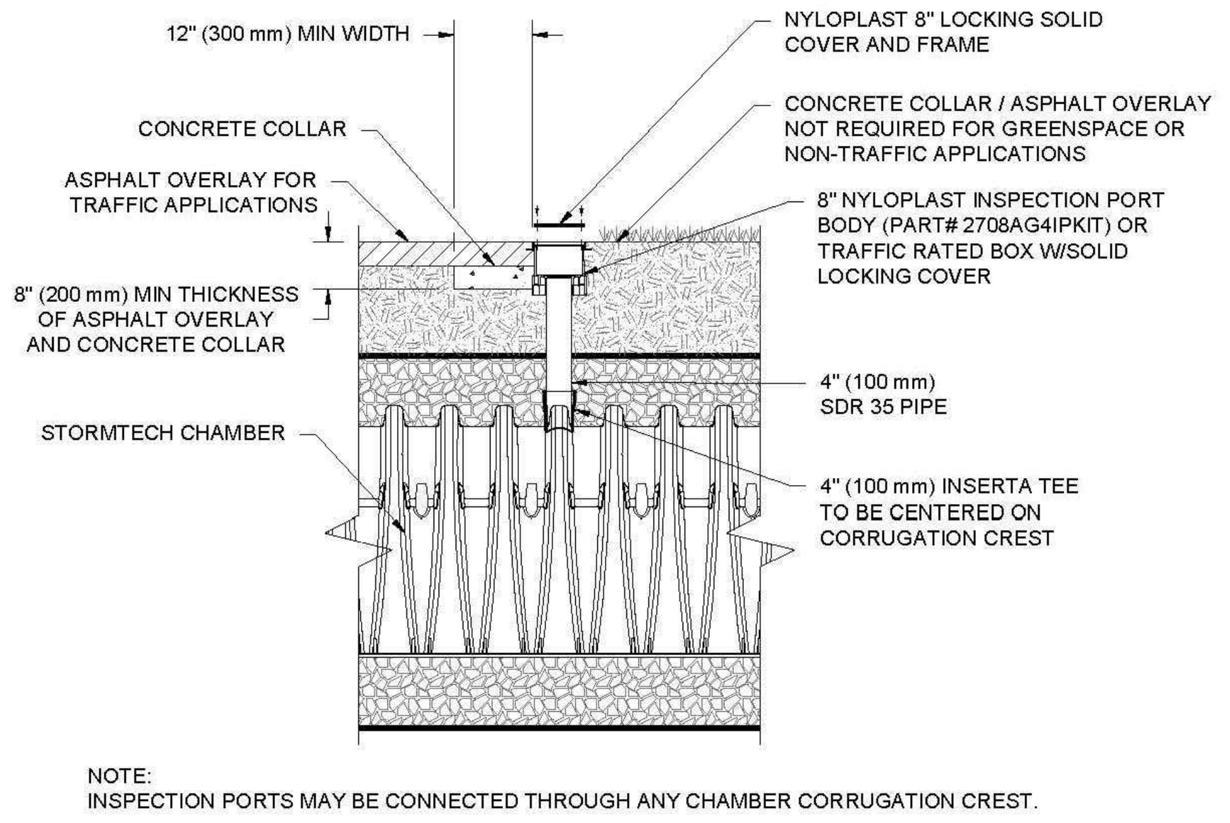
STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.



NOTE:
INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION CREST.

4" PVC INSPECTION PORT DETAIL
(SC SERIES CHAMBER)

NTS

VILLA RICHEY
NEW PORT RICHEY, FL
DATE: 09/10/23 DRAWN: HAK
PROJECT #: S357624 CHECKED: RWD

DATE	DRWN	CHKD	DESCRIPTION
09-29-23	SLS	SLS	REVISED PER UPDATED PLAN

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Chamber System
888-892-2694 | WWW.STORMTECH.COM

ADS
4640 TRUEMAN BLVD
HILLIARD, OH 43026

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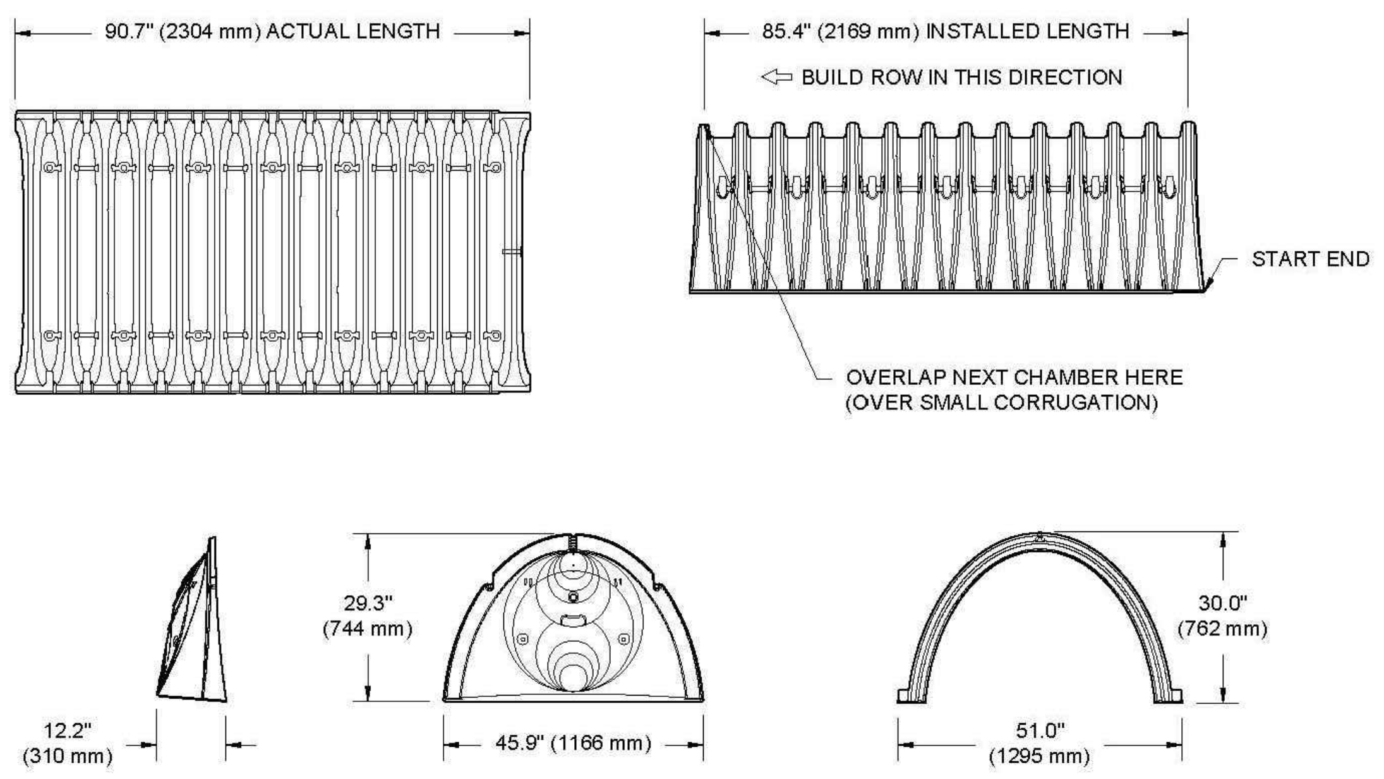
9 SHEET OF 10

SC-740 TECHNICAL SPECIFICATION

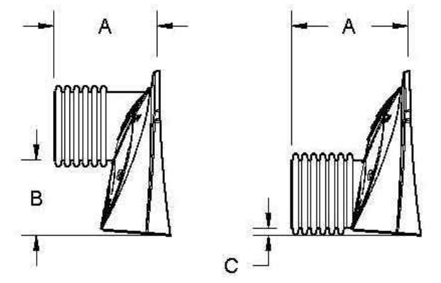
NTS


90.7" (2304 mm) ACTUAL LENGTH
85.4" (2169 mm) INSTALLED LENGTH
BUILD ROW IN THIS DIRECTION
START END
OVERLAP NEXT CHAMBER HERE
(OVER SMALL CORRUGATION)
29.3"
(744 mm)
30.0"
(762 mm)
12.2"
(310 mm)
45.9" (1166 mm)
51.0"
(1295 mm)

NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	51.0" X 30.0" X 85.4"	(1295 mm X 762 mm X 2169 mm)
CHAMBER STORAGE	45.9 CUBIC FEET	(1.30 m³)
MINIMUM INSTALLED STORAGE*	74.9 CUBIC FEET	(2.12 m³)
WEIGHT	75.0 lbs.	(33.6 kg)

*ASSUMES 6" (152 mm) STONE ABOVE, BELOW, AND BETWEEN CHAMBERS



PRE-FAB STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
PRE-FAB STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
PRE-CORED END CAPS END WITH "PC"

PART #	STUB	A	B	C
SC740EPE06T / SC740EPE06TPC	6" (150 mm)	10.9" (277 mm)	18.5" (470 mm)	---
SC740EPE06B / SC740EPE06BPC			---	0.5" (13 mm)
SC740EPE08T /SC740EPE08TPC	8" (200 mm)	12.2" (310 mm)	16.5" (419 mm)	---
SC740EPE08B / SC740EPE08BPC			---	0.6" (15 mm)
SC740EPE10T / SC740EPE10TPC	10" (250 mm)	13.4" (340 mm)	14.5" (368 mm)	---
SC740EPE10B / SC740EPE10BPC			---	0.7" (18 mm)
SC740EPE12T / SC740EPE12TPC	12" (300 mm)	14.7" (373 mm)	12.5" (318 mm)	---
SC740EPE12B / SC740EPE12BPC			---	1.2" (30 mm)
SC740EPE15T / SC740EPE15TPC	15" (375 mm)	18.4" (467 mm)	9.0" (229 mm)	---
SC740EPE15B / SC740EPE15BPC			---	1.3" (33 mm)
SC740EPE18T / SC740EPE18TPC	18" (450 mm)	19.7" (500 mm)	5.0" (127 mm)	---
SC740EPE18B / SC740EPE18BPC			---	1.6" (41 mm)
SC740ECEZ*	24" (600 mm)	18.5" (470 mm)	---	0.1" (3 mm)

ALL STUBS, EXCEPT FOR THE SC740ECEZ ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

* FOR THE SC740ECEZ THE 24" (600 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.75" (44 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL

VILLA RICHEY
NEW PORT RICHEY, FL
DATE: 09/10/23 DRAWN: HAK
PROJECT #: S357624 CHECKED: RWD

09-29-23 SLS SLS REVISED PER UPDATED PLAN
DATE DRWN CHKD DESCRIPTION

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Chamber System
888-892-2694 | WWW.STORMTECH.COM

ADS
4640 TRUEMAN BLVD
HILLIARD, OH 43026

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10 SHEET OF 10

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BARDEZ

5048 POINTE EMERALD LANE; BOCA RATON, FL 33486
(0) 561-465-5949 | (e) nbarnett@bardezco.com

PROJECT DESCRIPTION

VILLA RICHEY

SITE ADDRESS: 4206/4210 MADISON ST.
NEW PORT RICHEY, FL
PROPERTY ID: 16-26-16-0010-06100-0010
PREPARED FOR: VILLA RICHEY, LLC

E-CERTIFICATION

NOEL A. BARNETT No. 72006

Digitally signed by NOEL BARNETT
Date: 2024.03.26 16:42:24 -04'00'

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY NOEL A. BARNETT, PE ON THE DATE ADJACENT TO THE SEAL.

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CERTIFICATION

DATE: 03-26-2024

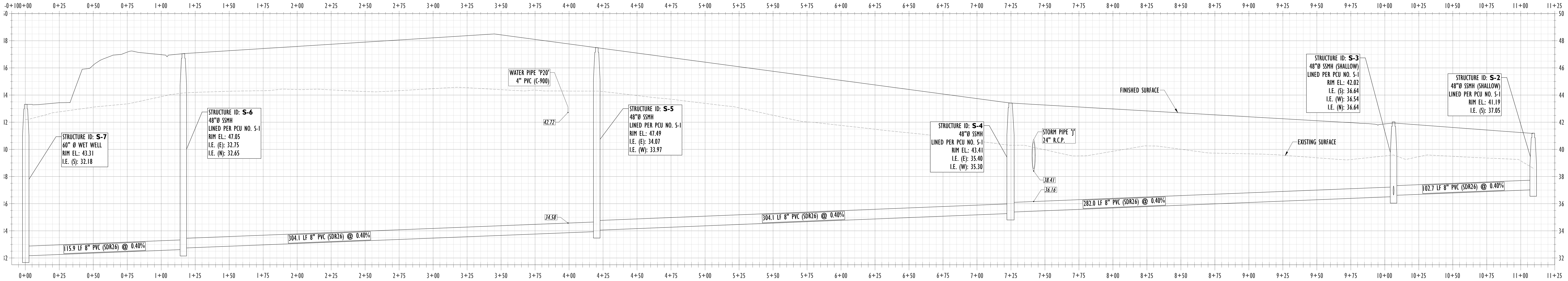
NOEL BARNETT
PROFESSIONAL ENGINEER
FL LICENSE NO. 72006
FL BUSINESS C.A. NO.: 32223

SHEET TITLE

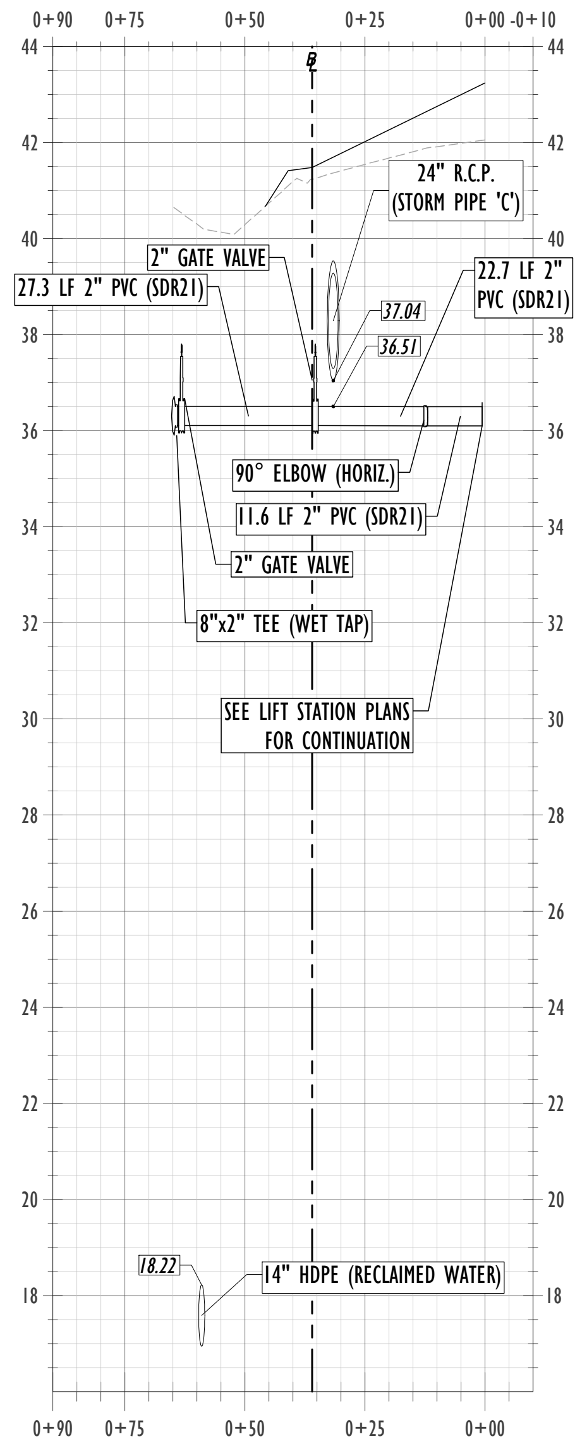
ADS STORM CHAMBER DETAILS

SHEET ID

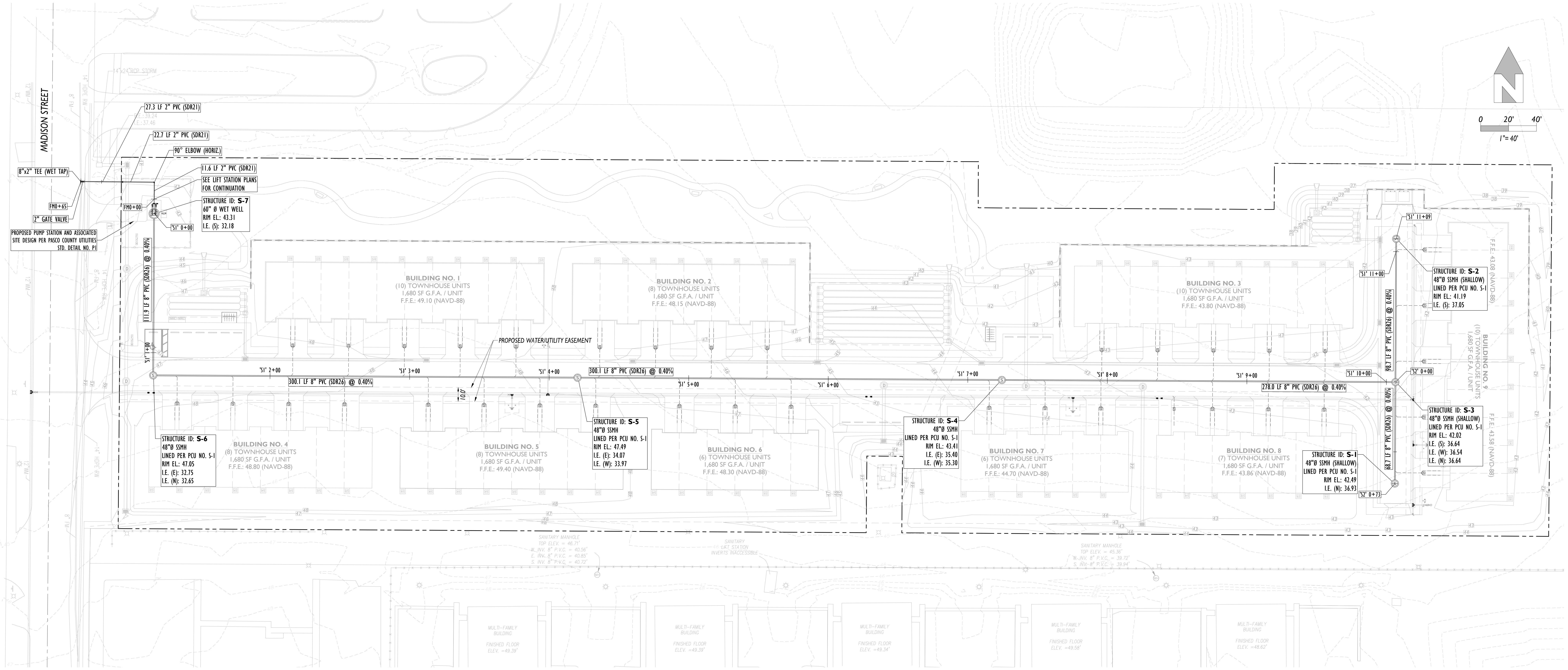
C-4.7



ALIGNMENT 'S1' - 8" PVC (SDR26) SANITARY SEWER
SCALE: 1"=40' (HORIZ) | 1"=4' (VERT)



ALIGNMENT 'FM' - 2" PVC (SDR21) SANITARY FORCEMAIN
SCALE: 1"=40' (HORIZ) | 1"=4' (VERT)

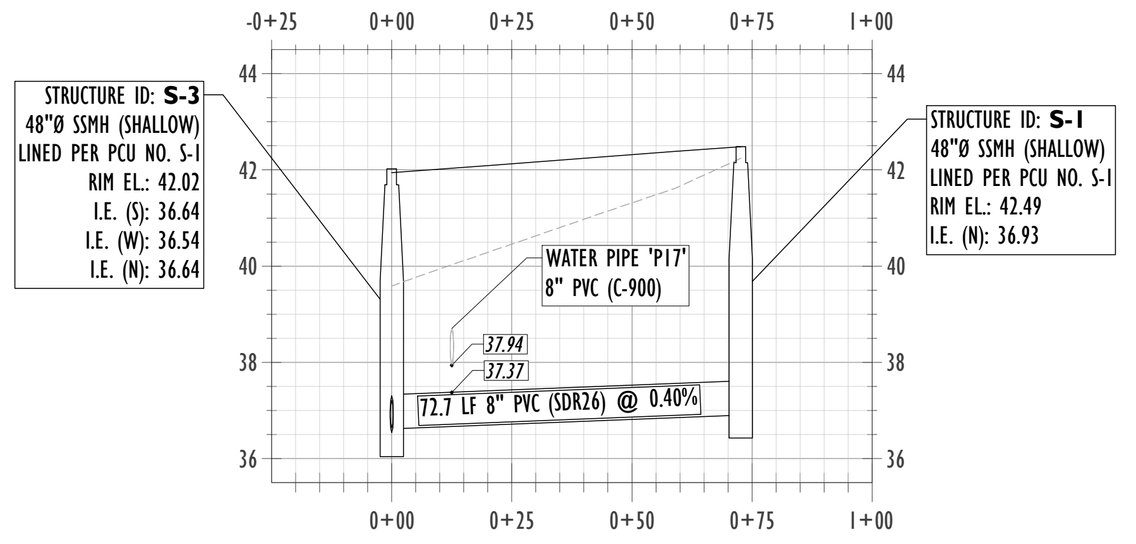


UTILITY CONSTRUCTION NOTES

1. ALL PROPOSED SANITARY SEWER MANHOLES TO BE LINED. REFER TO PASCO COUNTY UTILITIES DETAIL NO. S1 FOR ADDITIONAL INFORMATION.
2. ALL MATERIALS AND LABOR SHALL MEET THE SPECIFICATIONS REQUIRED BY THE COUNTY. ALL CONSTRUCTION SHALL BE PERFORMED UNDER THE INSPECTION OF THE COUNTY AND IN STRICT COMPLIANCE WITH THE STANDARDS OF THE COUNTY DESIGN STANDARDS.
3. ALL NEWLY INSTALLED WATER DISTRIBUTION MAINS AND SERVICE LATERALS SHALL BE COLOR CODED BLUE.
4. ALL NEWLY INSTALLED FORCE MAINS AND GRAVITY LINES SHALL BE COLOR CODED GREEN.
5. FIRE HYDRANTS SHALL BE FLOW-TESTED AND COLOR-CODED BASED ON FLOW RESULTS.
6. CONNECTIONS TO THE COUNTY'S SYSTEM SHALL BE MADE BY WET TAP. WET TAPS SHALL BE PERFORMED EXCLUSIVELY BY PASCO COUNTY UTILITIES AT THE DEVELOPER'S EXPENSE. EXCAVATION, BACKFILL, AND SURFACE RESTORATION SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
7. CONTRACTOR'S RESPONSIBILITIES REGARDING WET TAPS TWO INCHES AND LARGER SHALL BE AS FOLLOWS:
    a. 2" ONLY: THE EXCAVATED TRENCH MUST BE DRY OR THE TRENCH WILL REQUIRE ROCK AND A PUMP TO BE IN PLACE. THE MINIMUM DISTANCE FROM THE FACE OF THE VALVE TO THE WALL OF THE TRENCH IS TO BE SIX FEET. THE COUNTY WILL PROVIDE THE TAPPING SADDLE, CORPORATION STOP, STAINLESS STEEL NIPPLE, AND IRON BODY VALVE.
    b. 3" AND LARGER: THE CONTRACTOR WILL SUPPLY A TAPPING SADDLE BEING EPOXY COATED, A TAPPING VALVE WITH MECHANICAL JOINT AND THE EQUIPMENT TO PROVIDE, AND CONDUCT A PRESSURE TEST. COUNTY PERSONNEL WILL WITNESS THE PRESSURE TEST WHICH MUST BE AT 150 PSI FOR DURATION OF THIRTY MINUTES.
    c. THE CONTRACTOR IS RESPONSIBLE FOR THE EXCAVATION BEFORE ANY COUNTY PERSONNEL WILL ENTER AN EXCAVATED AREA. IF THE TRENCH IS FOUR FEET IN DEPTH OR DEEPER, IT WILL REQUIRE A TRENCH BOX OR SLOPING, AND A LADDER ACCORDING TO OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS.

SYMBOL LEGEND

S	PROPOSED SANITARY SEWER CLEANOUT
Ⓢ	PROPOSED SANITARY SEWER STRUCTURE
═	PROPOSED SANITARY SEWER MAIN
S	SINGLE SANITARY SEWER SERVICE
S	DUAL SANITARY SEWER SERVICE



ALIGNMENT 'S2' - 8" PVC (SDR26) SANITARY SEWER
SCALE: 1"=40' (HORIZ) | 1"=4' (VERT)

REVISIONS

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BARDEZ
5048 POINTE EMERALD LANE; BOCA RATON, FL 33486
(O) 561-465-5949 | (e) nbarnett@bardezco.com

PROJECT DESCRIPTION

VILLA RICHEY

SITE ADDRESS: 4206/4210 MADISON ST.
NEW PORT RICHEY, FL
PROPERTY ID: 16-26-16-0010-06100-0010
PREPARED FOR: VILLA RICHEY, LLC

E-CERTIFICATION

Digitally signed by NOEL BARNETT
Date: 2024.03.26 16:42:54 -04'00'

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CERTIFICATION

DATE: 03-26-2024

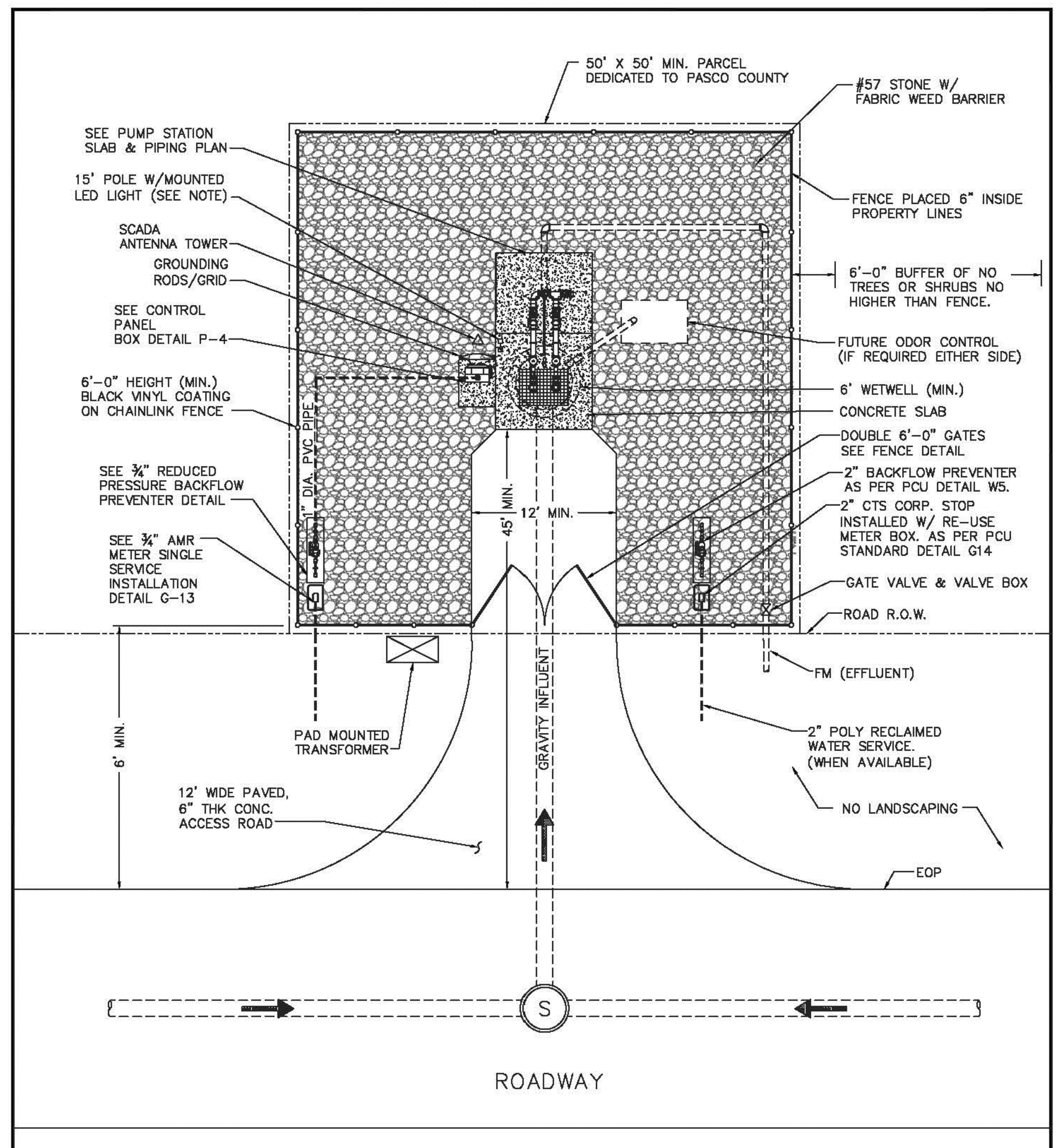
NOEL BARNETT
PROFESSIONAL ENGINEER
FL LICENSE NO. 72006
FL BUSINESS C.A. NO.: 32223

SHEET TITLE

SANITARY SEWER PLAN

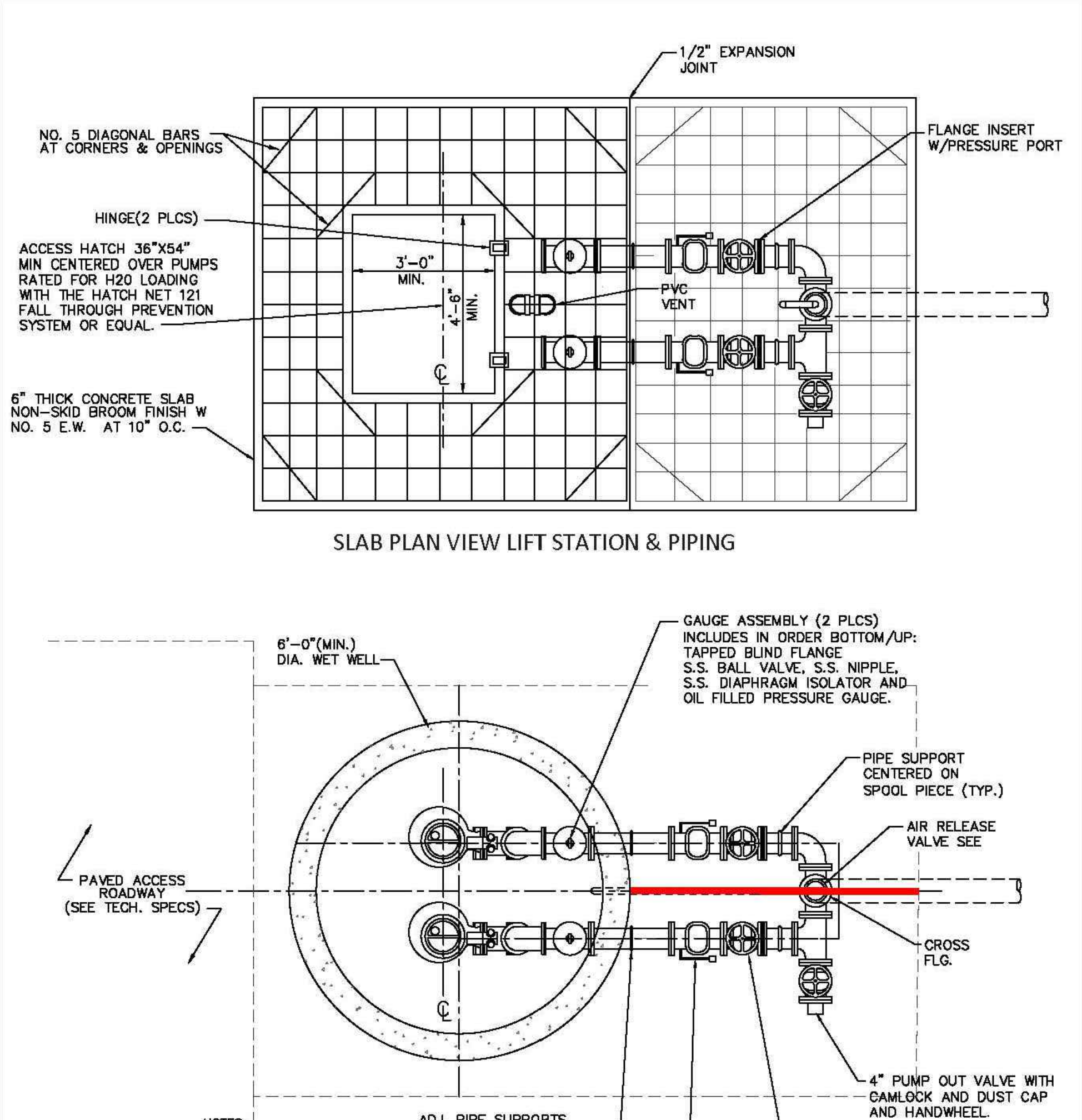
SHEET ID

C-5.0


50' x 50' MIN. PARCEL DEDICATED TO PASCO COUNTY
#57 STONE W/ FABRIC WEED BARRIER
SEE PUMP STATION SLAB & PIPING PLAN
15' POLE W/MOUNTED LED LIGHT (SEE NOTE)
SCADA ANTENNA TOWER
GROUNDING RODS/GRID
SEE CONTROL PANEL BOX DETAIL P-4
FENCE PLACED 6" INSIDE PROPERTY LINES
8'-0" BUFFER OF NO TREES OR SHRUBS NO HIGHER THAN FENCE.
FUTURE DOOR CONTROL (IF REQUIRED EITHER SIDE)
6'-0" HEIGHT (MIN.) BLACK VINYL COATING ON CHAINLINK FENCE
8' WETWELL (MIN.)
CONCRETE SLAB
DOUBLE 6'-0" GATES SEE FENCE DETAIL
SEE ¾" REDUCED PRESSURE BACKFLOW PREVENTER DETAIL
2" BACKFLOW PREVENTER AS PER PCU DETAIL W5.
2" CTS CORP. STOP INSTALLED W/ RE-USE METER BOX. AS PER PCU STANDARD DETAIL G14
SEE ¾" AMR METER SINGLE SERVICE INSTALLATION DETAIL G-13
GATE VALVE & VALVE BOX
ROAD R.O.W.
FM (EFFLUENT)
PAD MOUNTED TRANSFORMER
2" POLY RECLAIMED WATER SERVICE. (WHEN AVAILABLE)
12' MIN.
12' WIDE PAVED, 6" THK CONC. ACCESS ROAD
NO LANDSCAPING
GRAVITY INFLUENT
EOP
ROADWAY

NOTE: LIGHT AND POLE RAB 15FOOT P/N/11-1502
AND RAB 52 WATT LED P/N ALEDFC52

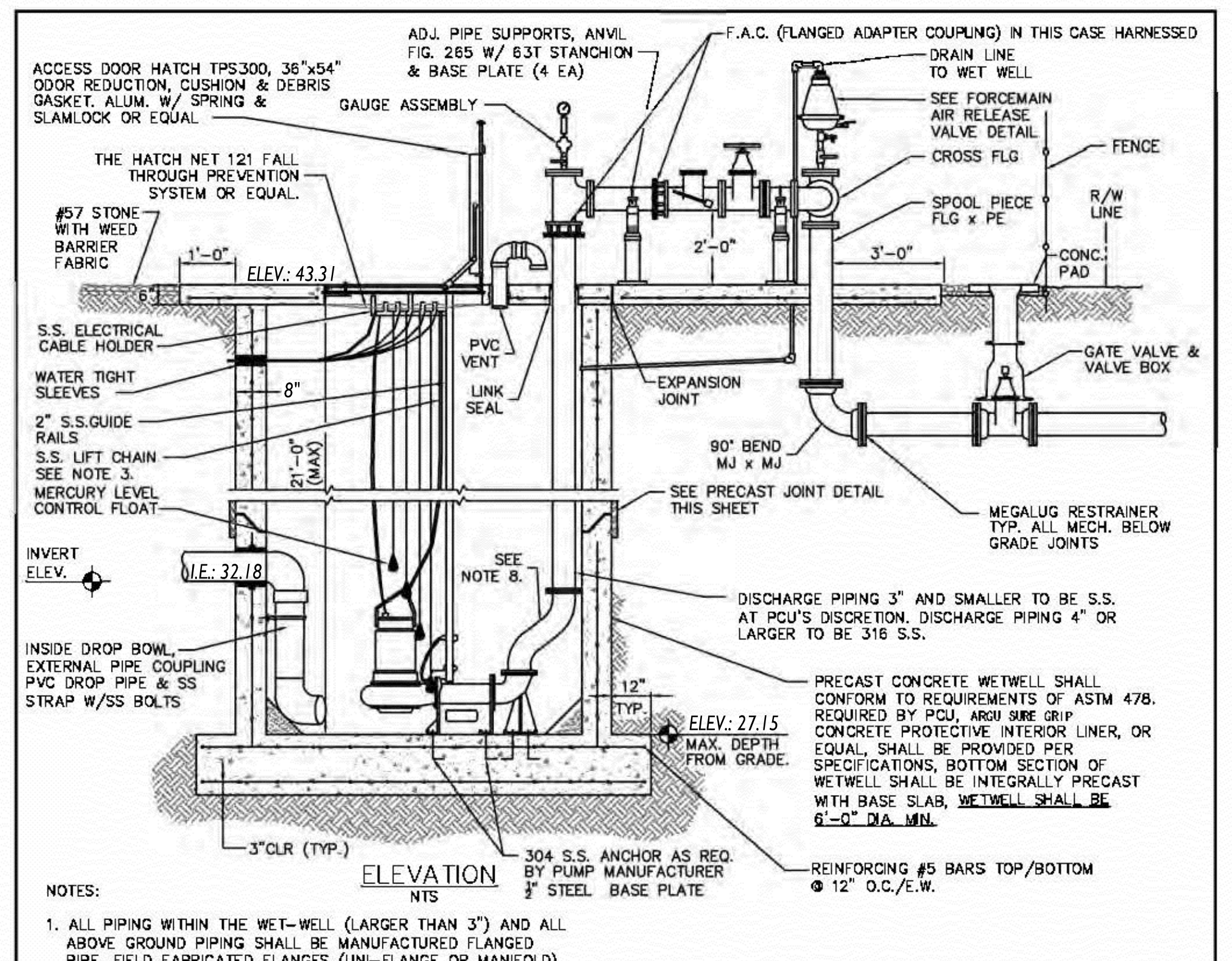
CREATED FEB 2003 REVISED JAN 2014 MAY 2015 JAN 2020	PUMP STATION (DUPLEX) SITE PLAN & ACCESS	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL	
	PASCO COUNTY UTILITIES	DETAIL P1	


1/2" EXPANSION JOINT
NO. 5 DIAGONAL BARS AT CORNERS & OPENINGS
FLANGE INSERT W/PRESSURE PORT
HINGE(2 PLCS)
ACCESS HATCH 36"x54" MIN CENTERED OVER PUMPS RATED FOR H20 LOADING WITH THE HATCH NET 121 FALL THROUGH PREVENTION SYSTEM OR EQUAL
3'-0" MIN.
PVC VENT
6" THICK CONCRETE SLAB NON-SKID BROOM FINISH W NO. 5 E.W. AT 10" O.C.
SLAB PLAN VIEW LIFT STATION & PIPING
6'-0"(MIN.) DIA. WET WELL
GAUGE ASSEMBLY (2 PLCS) INCLUDES IN ORDER BOTTOM/UP: TAPPED BLIND FLANGE S.S. BALL VALVE, S.S. NIPPLE, S.S. DIAPHRAGM ISOLATOR AND OIL FILLED PRESSURE GAUGE.
PIPE SUPPORT CENTERED ON SPOOL PIECE (TYP.)
AIR RELEASE VALVE SEE
PAVED ACCESS ROADWAY (SEE TECH. SPECS)
CROSS FLG.
4" PUMP OUT VALVE WITH CAMLOCK AND DUST CAP AND HANDWHEEL.
ADJ. PIPE SUPPORTS, ANVIL W/ 63T STANCHION & BASE PLATE (4 PLCS.)
SWING CHECK VALVES W/ OUTSIDE LEVER AND WEIGHT – FLG x FLG
RESILIENT WEDGE GATE VALVE (FLG x FLG) W/ HANDWHEEL (3 EA) (TYPICAL) KENNEDY OR EQUAL

NOTES:

1. WHEN NEW PUMP STATIONS ARE ADDED TO PCU SYSTEM, MANIFOLD, MH OR ADDED WET WELLS, THEN NEW STATION SHALL HAVE AN STAND-BY ELECTRICAL BACKUP GENERATOR.
2. PUMP OUT ASSEMBLY CAN BE PLACED ON EITHER SIDE TO BEST ACCOMMODATE PROPOSED LAYOUT FACING TOWARD DRIVEWAY w/ 90° OR 45°

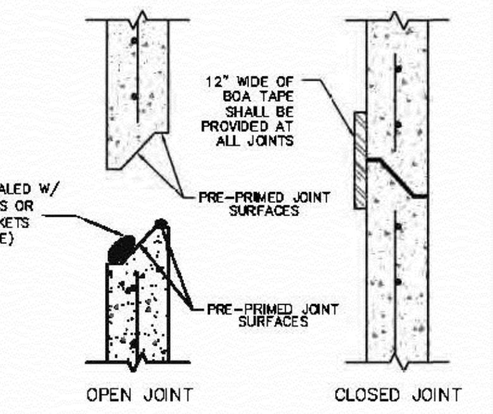
CREATED FEB 2003 REVISED JAN 2014 MAY 2015 JUNE 2019	PUMP STATION (DUPLEX) SLAB & PIPING PLAN	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL
	PASCO COUNTY UTILITIES	DETAIL P2


ACCESS DOOR HATCH TPS300, 36"x54" DOOR REDUCTION, CUSHION & DEBRIS GASKET, ALUM. W/ SPRING & SLAMLOCK OR EQUAL
ADJ. PIPE SUPPORTS, ANVIL FIG. 265 W/ 63T STANCHION & BASE PLATE (4 EA)
F.A.C. (FLANGED ADAPTER COUPLING) IN THIS CASE HARNESSED
DRAIN LINE TO WET WELL
GAUGE ASSEMBLY
SEE FORCEMAIN AIR RELEASE VALVE DETAIL
CROSS FLG
FENCE
THE HATCH NET 121 FALL THROUGH PREVENTION SYSTEM OR EQUAL
SPOOL PIECE FLG x PE
R/W LINE
#57 STONE WITH WEED BARRIER FABRIC
ELEV: 43.31
CONC. PAD
S.S. ELECTRICAL CABLE HOLDER
PVC VENT
GATE VALVE & VALVE BOX
WATER TIGHT SLEEVES
LINK SEAL
EXPANSION JOINT
2" S.S.GUIDE RAILS
S.S. LIFT CHAIN SEE NOTE 3.
90° BEND MJ x MJ
MERCURY LEVEL CONTROL FLOAT
SEE PRECAST JOINT DETAIL THIS SHEET
MEGALUG RESTRAINER TYP. ALL MECH. BELOW GRADE JOINTS
INVERT ELEV.
ELE.: 32.18
SEE NOTE 8.
DISCHARGE PIPING 3" AND SMALLER TO BE S.S. AT PCU'S DISCRETION. DISCHARGE PIPING 4" OR LARGER TO BE 316 S.S.
INSIDE DROP BOWL, EXTERNAL PIPE COUPLING PVC DROP PIPE & SS STRAP W/SS BOLTS
PRECAST CONCRETE WETWELL SHALL CONFORM TO REQUIREMENTS OF ASTM 478. REQUIRED BY PCU. ANY WET WELL CONCRETE PROTECTIVE INTERIOR LINER, OR EQUAL, SHALL BE PROVIDED PER SPECIFICATIONS. BOTTOM SECTION OF WETWELL SHALL BE INTEGRALLY PRECAST WITH BASE SLAB. WETWELL SHALL BE 6'-0" DIA. MIN.
12" TYP.
ELEV.: 27.15
MAX. DEPTH FROM GRADE.
3"CLR (TYP.)
304 S.S. ANCHOR AS REQ. BY PUMP MANUFACTURER ½" STEEL BASE PLATE
REINFORCING #5 BARS TOP/BOTTOM @ 12" O.C./E.W.

ELEVATION
NTS

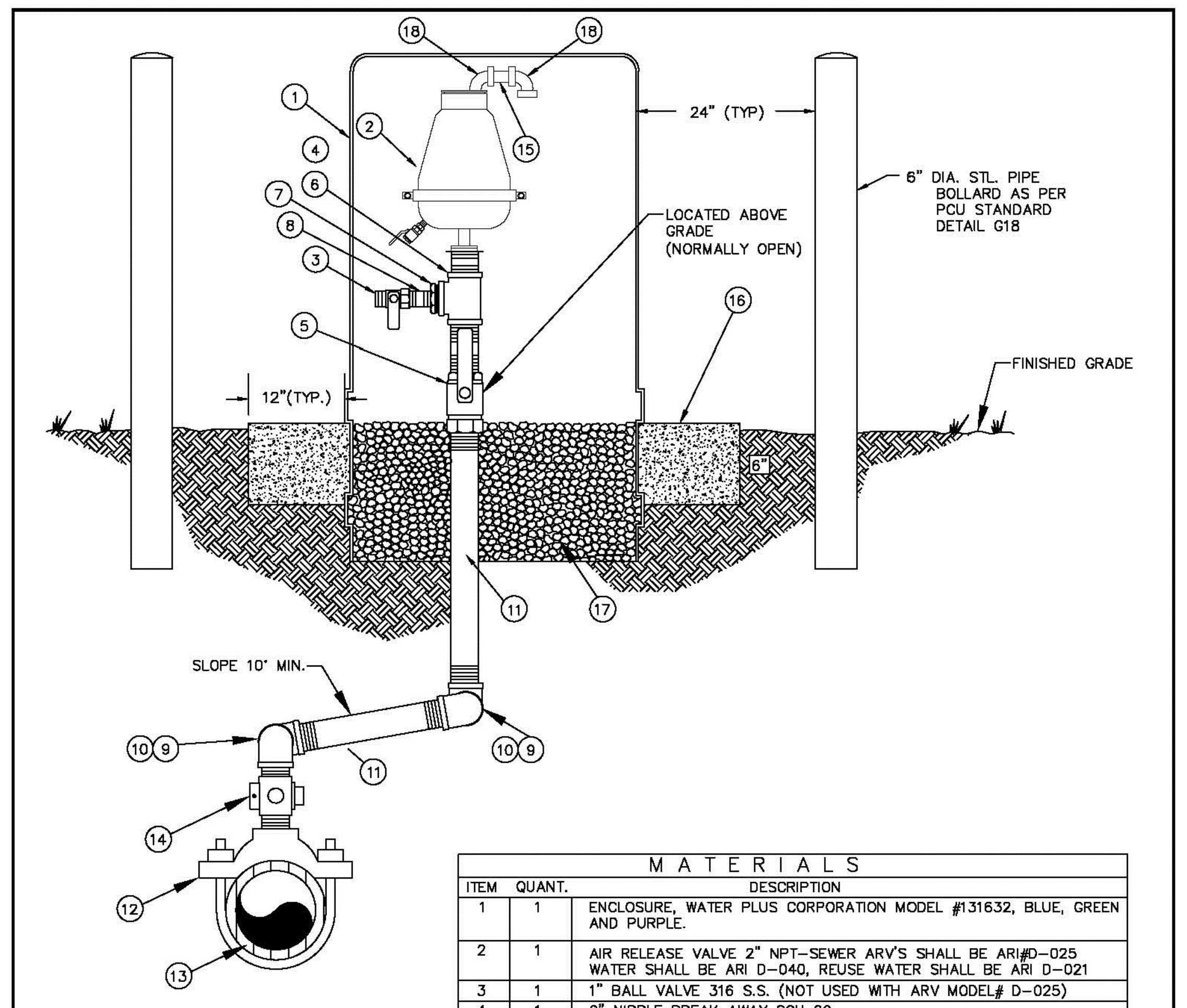
NOTES:

1. ALL PIPING WITHIN THE WET-WELL (LARGER THAN 3") AND ALL ABOVE GROUND PIPING SHALL BE MANUFACTURED FLANGED PIPE. FIELD FABRICATED FLANGES (UNI-FLANGE OR MANIFOLD) WILL NOT BE PERMITTED UNLESS SPECIFIED HEREIN.
2. ALL UNDERGROUND FITTINGS SHALL BE RESTRAINED MECHANICAL JOINT AND SHALL BE PROVIDED WITH PROTECTO 401 INTERIOR LINING.
3. 5/16" S.S. LIFTING CHAIN.
4. INDIVIDUAL WALL PENETRATION SLEEVES SHALL BE PROVIDED FOR EACH PUMP CABLE.
5. ALL HARDWARE (INCLUDING FLANGE BOLTS & NUTS) SHALL BE STAINLESS STEEL.
6. ALL ABOVE GROUND PIPING TO BE PAINTED SAFETY FOREST GREEN.
7. SLAB ELEVATION TO BE 12 IN. ABOVE C/L OF ROADWAY OR 12 IN. ABOVE 100 YEAR FLOOD PLAIN – WHICHEVER IS HIGHER.
8. OFFSET FLG X FLG OR (2) 45° FITTINGS FLANGED W/ PROTECTO 401 COATING.


12" WIDE OF BOX TAPE SHALL BE PROVIDED AT ALL JOINTS
JOINTS TO BE SEALED W/ (2) O-RING SEALS OR (2) RAMNEK GASKETS (INSIDE & OUTSIDE) (ASTM C443)
PRE-PRIMED JOINT SURFACES
OPEN JOINT
CLOSED JOINT

PRECAST JOINT DETAIL

CREATED FEB 2003 REVISED JAN 2014 MAY 2015 FEB 2020	DUPLEX PUMP STATION ELEVATION & PIPING PROFILE	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL
	PASCO COUNTY UTILITIES	DETAIL P3


18
24" (TYP)
15
6" DIA. STL. PIPE BOLLARD AS PER PCU STANDARD DETAIL G18
1
2
LOCATED ABOVE GRADE (NORMALLY OPEN)
8
7
6
3
4
16
5
FINISHED GRADE
12"(TYP.)
11
17
SLOPE 10" MIN.
10 9
14
12
13

ARI ARV MODEL#
D-040 W=WATERMAIN
D-021 RW= REUSE WATER
D-025 FM=FORCEMAIN

MATERIALS			
	ITEM	QUANT.	DESCRIPTION
	1	1	ENCLOSURE, WATER PLUS CORPORATION MODEL #131632, BLUE, GREEN AND PURPLE.
	2	1	AIR RELEASE VALVE 2" NPT-SEWER ARV'S SHALL BE ARI#D-025 WATER SHALL BE ARI D-040, REUSE WATER SHALL BE ARI D-021
	3	1	1" BALL VALVE 316 S.S. (NOT USED WITH ARV MODEL# D-025)
	4	1	2" NIPPLE BREAK AWAY SCH 80
	5	1	2" CLOSED BALL VALVE, S.S. ABOVE GRADE (NORMALLY OPEN)
	6	1	2" TEE, S.S.
	7	1	2" X 1" REDUCER, S.S.
	8	1	1" SHORT NIPPLE, S.S.
	9	4	2" x 90° ELBOW, S.S.
	10	2	2" SHORT NIPPLE, S.S.
	11	2	2" PIPE, S.S. LENGTH AS REQUIRED
	12	1	2" DOUBLE STRAP TAPPING SADDLE, S.S.
	13	1	4" & LARGER PIPE, D.I. OR PVC (DR-18)
	14	1	2" CORPORATION BRASS
**	15	3	1/2" PIPE, PVC, LENGTH AS REQUIRED
	16	1	CONCRETE SLAB AROUND ENCLOSURE
	17	*	#57 WHITE ROCK
**	18	2	1/2" 90° ELBOW, PVC

** = NOT REQUIRED FOR ARI MODELS D-021 OR D-025

W, RW, FM

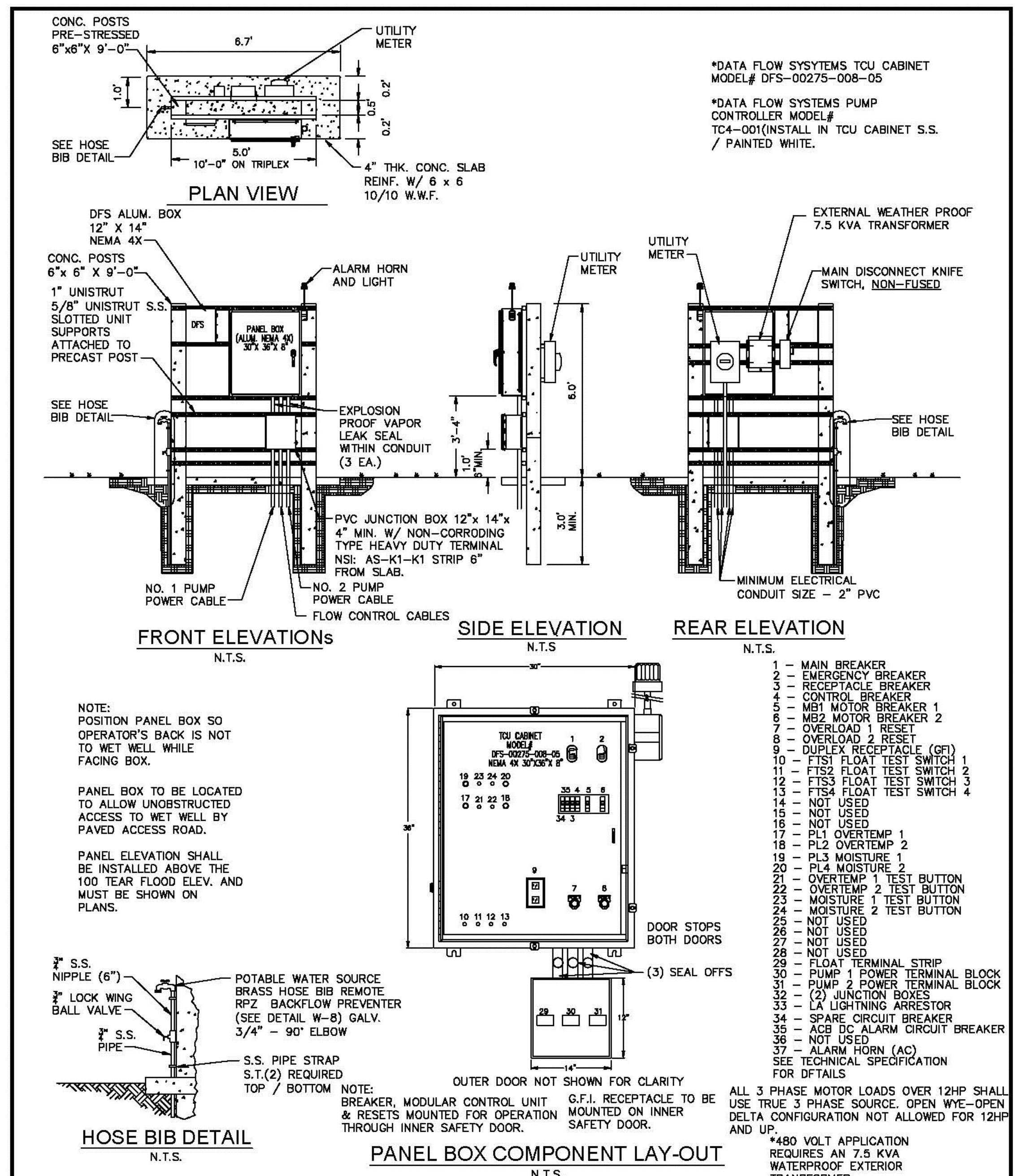
CREATED FEB 2003 REVISED JAN 2014 AUG 2015 NOV 2019	W, RW, FM AIR RELEASE VALVE ASSEMBLY (ABOVE GROUND OFFSET)	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL
	PASCO COUNTY UTILITIES	DETAIL G17

WET WELL DATA

	PROPOSED	AS-BUILT
DIAMETER	6'-0"	
TOP SLAB ELEV.	43.31	
BASE SLAB ELEV.	27.15	
INFLUENT ELEV.	32.18	
HIGH WATER ALARM	32.15	
BOTH PUMPS ON	31.65	
DUTY PUMP ON	31.15	
BOTH PUMPS OFF	29.15	

PUMP DATA

PUMP NUMBER	1 (DUTY)	2 (SECONDARY)
MAX./MIN. G.P.M.	59.8 / 22.5	59.8 / 22.5
MIN./MAX. T.D.H	23.2 / 34.5	23.2 / 34.5
MANUFACTURER	BARNES	BARNES
MODEL	2SEV1022DS	2SEV1022DS
R.P.M.	3,450	3,450
H.P.	1.0	1.0
PHASE	SINGLE	SINGLE
VOLTS	240	240


CONC. POSTS PRE-STRESSED 6"x8"x 9'-0"
UTILITY METER
SEE HOSE BIB DETAIL
4" THK. CONC. SLAB REINF. W/ 6 x 6 W/10 W.W.F.
PLAN VIEW
*DATA FLOW SYSYTEMS TCU CABINET MODEL# DFS-00275-008-05
*DATA FLOW SYSTEMS PUMP CONTROLLER MODEL# TC4-001(INSTALL IN TCU CABINET S.S. / PAINTED WHITE.
DFS ALUM. BOX 12" X 14" NEMA 4X
EXTERNAL WEATHER PROOF 7.5 KVA TRANSFORMER
CONC. POSTS 6"x 6" x 9'-0"
ALARM HORN AND LIGHT
UTILITY METER
MAIN DISCONNECT KNIFE SWITCH, NON-FUSED
1" UNISTRUT 5/8" UNISTRUT S.S. SLOTTED UNIT SUPPORTS ATTACHED TO PRECAST POST
SEE HOSE BIB DETAIL
EXPLOSION PROOF VAPOR LEAK SEAL WITHIN CONDUIT (3 EA.)
PVC JUNCTION BOX 12"x 14"x 4" MIN. W/ NON-CORRODING TYPE HEAVY DUTY TERMINAL NSI: AS-K1-K1 STRIP 6" FROM SLAB.
NO. 1 PUMP POWER CABLE
NO. 2 PUMP POWER CABLE
FLOW CONTROL CABLES
MINIMUM ELECTRICAL CONDUIT SIZE – 2" PVC
FRONT ELEVATIONs
SIDE ELEVATION
REAR ELEVATION
TCU CABINET MODEL# DFS-00275-008-05 NEMA 4X 30"X36"X 8"
DOOR STOPS BOTH DOORS
(3) SEAL OFFS
OUTER DOOR NOT SHOWN FOR CLARITY
¾" S.S. NIPPLE (6")
¾" LOCK WING BALL VALVE
¾" S.S. PIPE
POTABLE WATER SOURCE BRASS HOSE BIB REMOTE RPZ BACKFLOW PREVENTER (SEE DETAIL W-8) GALV. 3/4" – 90° ELBOW
S.S. PIPE STRAP S.T.(2) REQUIRED TOP / BOTTOM
HOSE BIB DETAIL
PANEL BOX COMPONENT LAY-OUT

NOTE:
POSITION PANEL BOX SO OPERATOR'S BACK IS NOT TO WET WELL WHILE FACING BOX.

PANEL BOX TO BE LOCATED TO ALLOW UNOBSTRUCTED ACCESS TO WET WELL BY PAVED ACCESS ROAD.

PANEL ELEVATION SHALL BE INSTALLED ABOVE THE 100 TEAR FLOOD ELEV. AND MUST BE SHOWN ON PLANS.

NOTE:
BREAKER, MODULAR CONTROL UNIT & RESETS MOUNTED FOR OPERATION THROUGH INNER SAFETY DOOR.

G.F.I. RECEPTACLE TO BE MOUNTED ON INNER SAFETY DOOR.

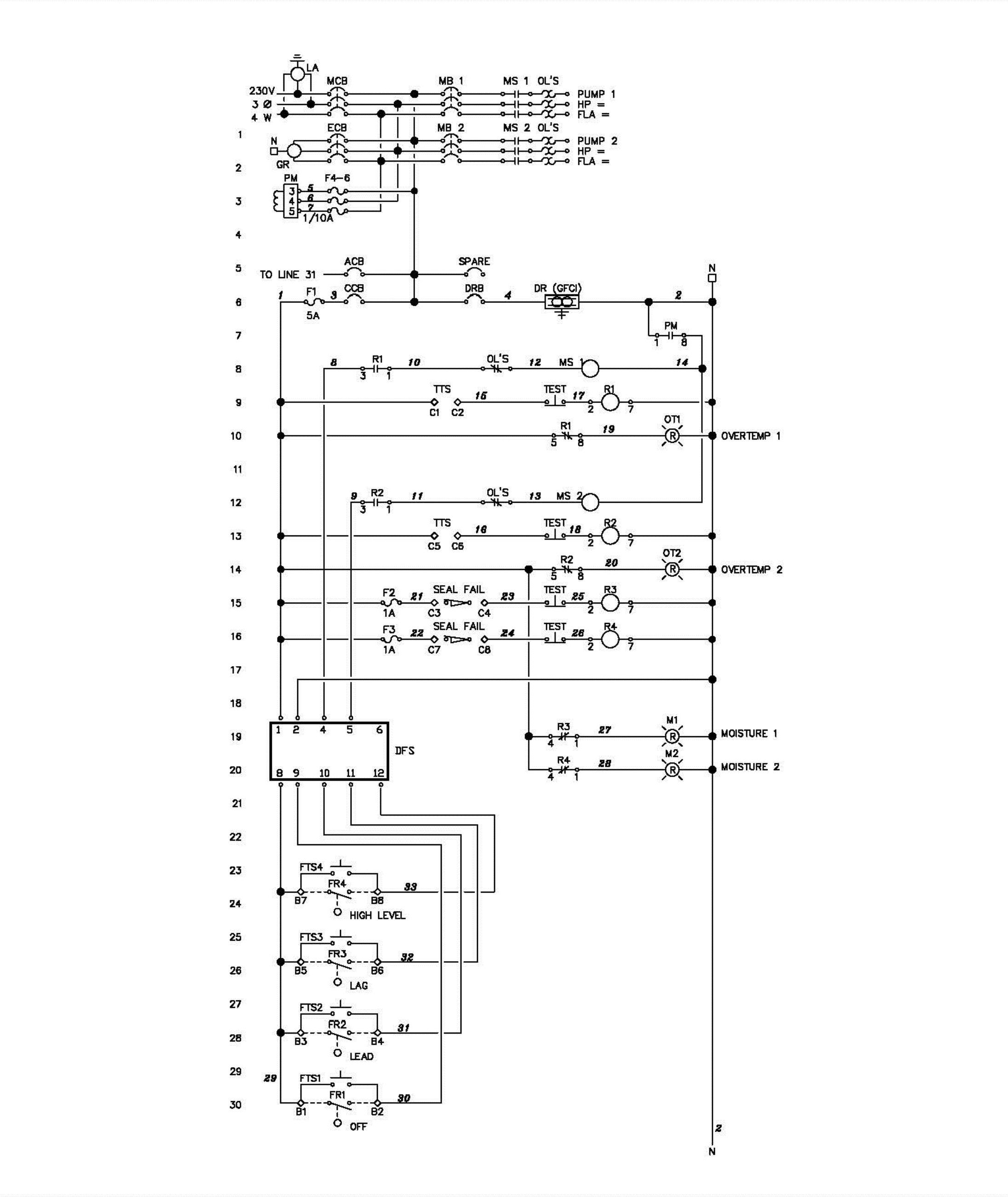
1 – MAIN BREAKER
2 – EMERGENCY BREAKER
3 – RECEPTACLE BREAKER
4 – CONTROL BREAKER
5 – MB1 MOTOR BREAKER 1
6 – MB2 MOTOR BREAKER 2
7 – OVERLOAD 1 RESET
8 – OVERLOAD 2 RESET
9 – DUPLEX RECEPTACLE (GFI)
10 – FTS1 FLOAT TEST SWITCH 1
11 – FTS2 FLOAT TEST SWITCH 2
12 – FTS3 FLOAT TEST SWITCH 3
13 – FTS4 FLOAT TEST SWITCH 4
14 – NOT USED
15 – NOT USED
16 – NOT USED
17 – PL1 OVERTEMP 1
18 – PL2 OVERTEMP 2
19 – PL3 MOISTURE 1
20 – PL4 MOISTURE 2
21 – OVERTEMP 1 TEST BUTTON
22 – OVERTEMP 2 TEST BUTTON
23 – MOISTURE 1 TEST BUTTON
24 – MOISTURE 2 TEST BUTTON
25 – NOT USED
26 – NOT USED
27 – NOT USED
28 – NOT USED
29 – FLOAT TERMINAL STRIP
30 – PUMP 1 POWER TERMINAL BLOCK
31 – PUMP 2 POWER TERMINAL BLOCK
32 – (2) JUNCTION BOXES
33 – LA LIGHTNING ARRESTOR
34 – SPARE CIRCUIT BREAKER
35 – ACB DC ALARM CIRCUIT BREAKER
36 – NOT USED
37 – ALARM HORN (AC)

SEE TECHNICAL SPECIFICATION FOR DFTAILS

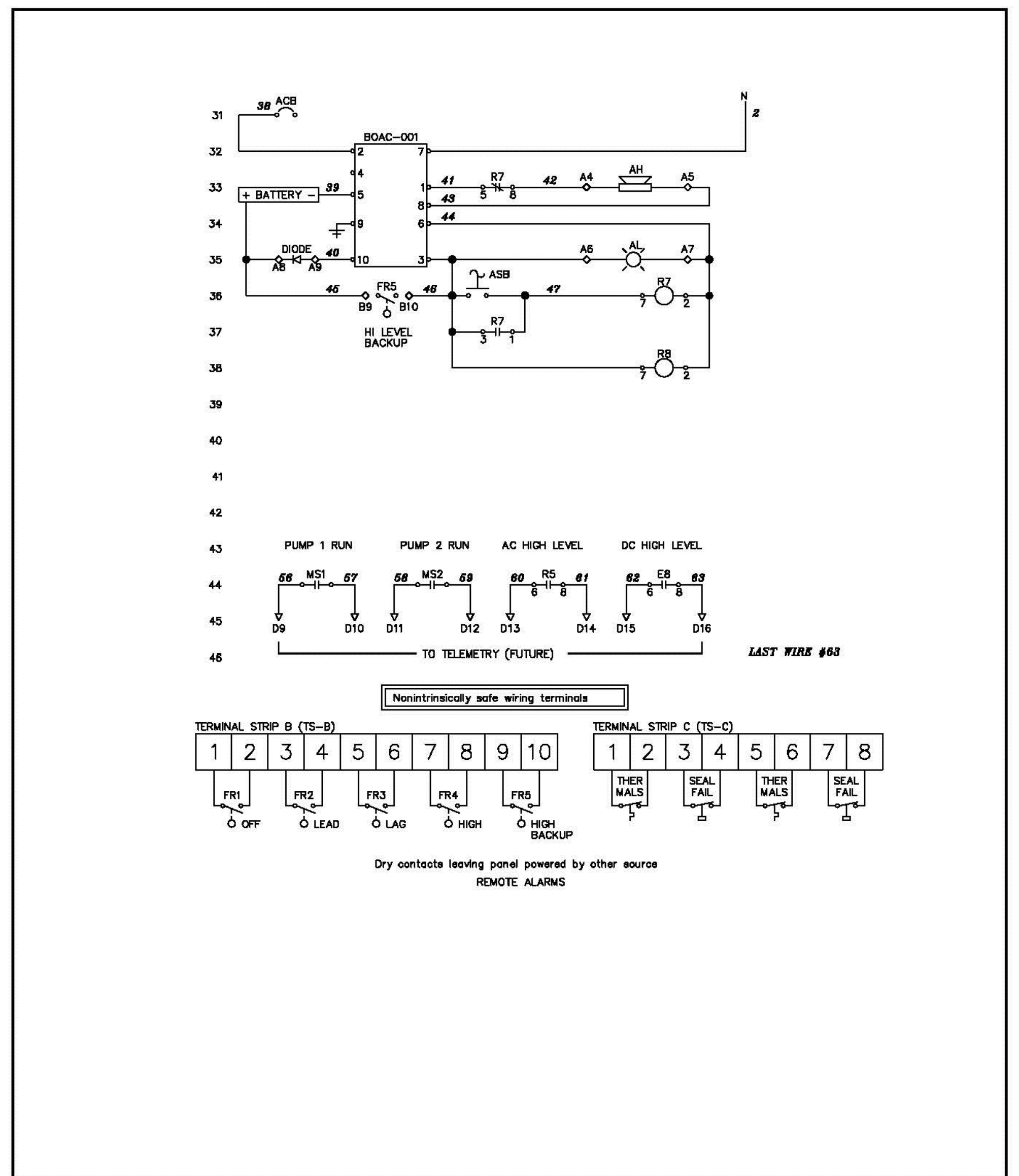
ALL 3 PHASE MOTOR LOADS OVER 12HP SHALL USE TRUE 3 PHASE SOURCE. OPEN WYE-OPEN DELTA CONFIGURATION NOT ALLOWED FOR 12HP AND UP.

*480 VOLT APPLICATION REQUIRES AN 7.5 KVA WATERPROOF EXTERIOR TRANSFORMER

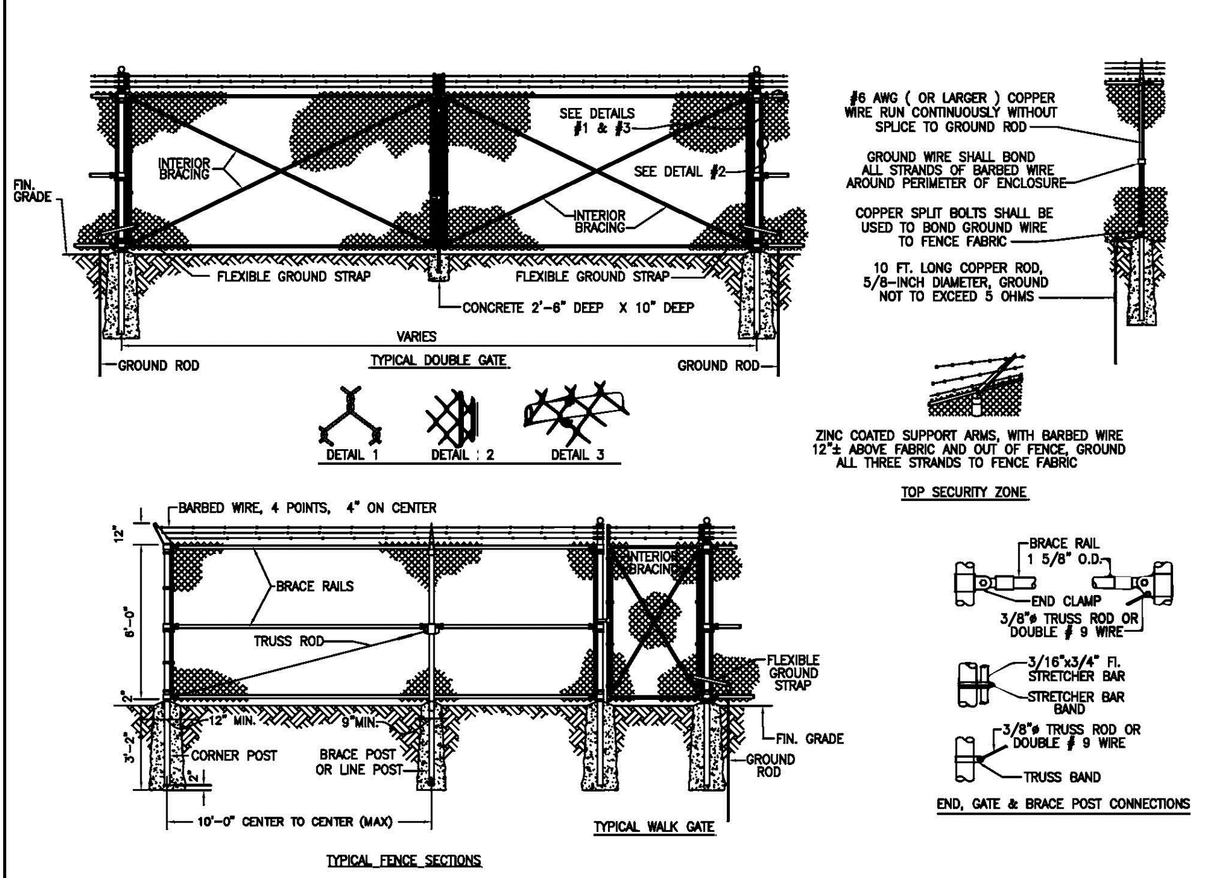
CREATED APRIL 2018 REVISED NOV 2019	STANDARD PUMP STATION CONTROL PANEL BOX & COMPONENT LAY-OUT	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL
	PASCO COUNTY UTILITIES	DETAIL P4



CREATED FEB 2003 REVISED JAN 2014 MAY 2015 JUNE 2019	STANDARD PUMP STATION DUPLEX WIRING DIAGRAM (1 OF 2)	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL
	PASCO COUNTY UTILITIES	DETAIL P5



CREATED FEB 2003 REVISED JAN 2014 MAY 2015 JUNE 2019	STANDARD PUMP STATION DUPLEX WIRING DIAGRAM (2 OF 2)	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL
	PASCO COUNTY UTILITIES	DETAIL P6


#6 AWG (OR LARGER) COPPER WIRE RUN CONTINUOUSLY WITHOUT SPLICE TO GROUND ROD
INTERIOR BRACING
SEE DETAILS #1 & 2
SEE DETAIL #3
FIN. GRADE
COPPER SPLIT BOLTS SHALL BE USED TO BOND GROUND WIRE TO FENCE FABRIC
10 FT. LONG COPPER ROD, 5/8-INCH DIAMETER, GROUND NOT TO EXCEED 5 OHMS
FLEXIBLE GROUND STRAP
CONCRETE 2'-6" DEEP x 10" DEEP
GROUND ROD
TYPICAL DOUBLE GATE
DETAIL 1
DETAIL 2
DETAIL 3
ZINC COATED SUPPORT ARMS, WITH BARBED WIRE 12" ABOVE FABRIC AND OUT OF FENCE, GROUND ALL THREE STRANDS TO FENCE FABRIC
TOP SECURITY ZONE
BARBED WIRE, 4 POINTS, 4" ON CENTER
BRACE RAILS
TRUSS ROD
FLEXIBLE GROUND STRAP
12" MIN.
9" MIN.
CORNER POST
BRACE POST OR LINE POST
FIN. GRADE
GROUND ROD
10'-0" CENTER TO CENTER (MAX)
TYPICAL WALK GATE
3/16"x3/4" FI. STRETCHER BAR
STRETCHER BAR BAND
3/8"ø TRUSS ROD OR DOUBLE # 9 WIRE
TRUSS BAND
END, GATE & BRACE POST CONNECTIONS

TYPICAL FENCE SECTIONS

FENCING NOTES :

1. END, CORNER, AND PULL POSTS TO BE TUBULAR, 3-INCH ASA SCH. 40 LINE POSTS TO BE TUBULAR, 2-1/2-INCH ASA SCH. 40.
2. LINE AND CORNER POSTS MAY BE OF A SECTION OF EQUIVALENT STRUCTURAL STRENGTH AS TUBULAR SECTIONS.
3. CHAIN LINK FABRIC SHALL BE 9 GAUGE GALVANIZED WIRE, WITH 2-INCH MESH FABRIC TO BE TWISTED AND BARBED BOTH TOP AND BOTTOM.
4. FABRIC TO BE TIED TO SUPPORT RAILS, 24" O.C. USING STANDARD NO. 13 GAUGE ALUMINUM
5. SUPPORT ARMS FOR BARBED WIRE APPLICATION SHALL BE POINTED OUTWARDLY. BARBED WIRE SHALL EXTEND 12 IN. ± ABOVE FENCE.
6. FENCING FOR WASTEWATER PLANTS, WATER PLANTS, AND OTHER SITES REQUIRING SECURE FENCING AS DIRECTED BY PCU SHALL CONFORM TO "FENCE TYPE 'A'" IN THE LATEST EDITION OF FDOT STANDARD PLANS, INDEX 550-001. FOR PUMP STATION SITES, FENCING SHALL BE FDOT "FENCE TYPE 'B'" AS DETAILED IN INDEX 550-002.
7. ALL FENCE COMPONENTS (I.E. RAILS, FITTINGS, POSTS, GATES, FABRIC, ETC...) SHALL BE GALVANIZED COATED.
8. ALL FENCING SHALL HAVE A #7 GAUGE GALVANIZED BOTTOM TENSION WIRE OR APPROVED EQUAL WOVEN ALONG THE BOTTOM EDGE OF THE CHAIN LINK FABRIC.
9. TENSION WIRE SHALL BE LOOPED AROUND THE BOTTOM OF ALL LINE OR BRACE POSTS AND SECURED WITH A STRETCHER BAR BAND TO ALL CORNER POSTS.
10. ALL BARBED FENCE WIRE SHALL BE BOND-GROUNDED TO THE FENCE FABRIC.
11. FENCE GROUNDING SHALL BE BONDED BACK TO THE ELECTRIC SERVICE GROUND..
12. GATES SHALL BE GROUNDED ON EACH SIDE, TO THE ENCLOSURE FENCE, USING A HEAVY DUTY FLEXIBLE GROUND STRAP TO PERMIT THE OPENING AND CLOSING OF THE GATES.
13. FENCE GROUND RESISTANCE SHALL NOT EXCEED 5 OHMS.
14. FORK TYPE-PADLOCK COMPATIBLE HANDLE GATE STOPPER ROD REQUIRED BOTH GATES.

CREATED FEB 2003 REVISED JAN 2014 MAY 2016 JAN 2020	FENCE SPECIFICATIONS	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL
	PASCO COUNTY UTILITIES	DETAIL G4

REVISIONS

REV	DATE	DESCRIPTION
1	---	--- ---
2	---	--- ---
3	---	--- ---
4	---	--- ---
5	---	--- ---
6	---	--- ---
7	---	--- ---
8	---	--- ---
9	---	--- ---
10	---	--- ---

BARDEZ

5048 POINTE EMERALD LANE; BOCA RATON, FL 33486
(0) 561-465-5949 | (e) nbarnett@bardezco.com

PROJECT DESCRIPTION

VILLA RICHEY

SITE ADDRESS: 4206/4210 MADISON ST.
NEW PORT RICHEY, FL

PROPERTY ID: 16-26-16-0010-06100-0010

PREPARED FOR: VILLA RICHEY, LLC

E-CERTIFICATION

NOEL A. BARNETT No. 72006

Digitally signed by NOEL BARNETT
Date: 2024.03.26 16:43:11 -04'00'

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY NOEL A. BARNETT, PE ON THE DATE ADJACENT TO THE SEAL.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

CERTIFICATION

DATE: 03-26-2024

NOEL BARNETT
PROFESSIONAL ENGINEER
FL LICENSE NO. 72006
FL BUSINESS C.A. NO.: 32223

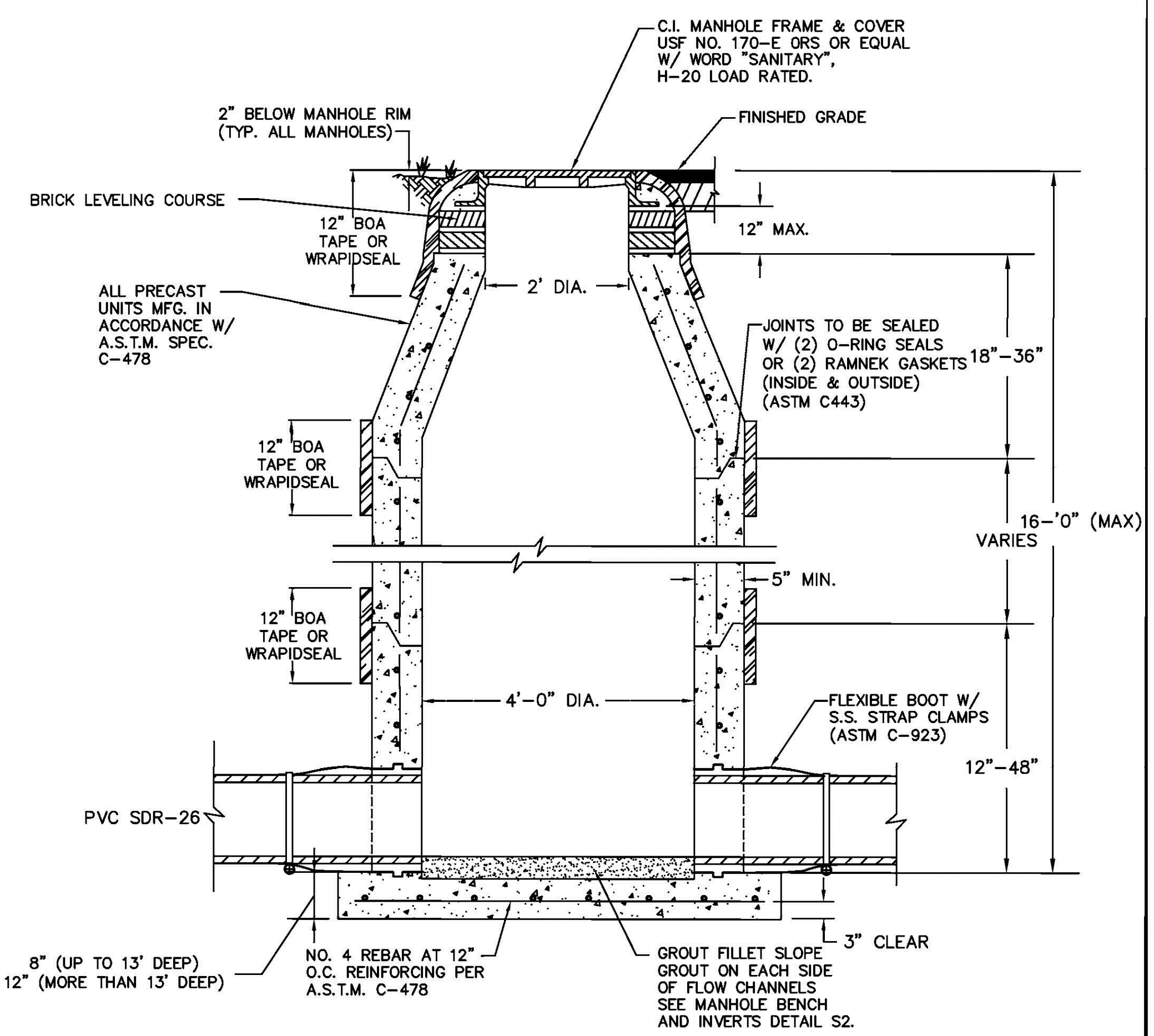
SHEET TITLE

SANITARY PUMP STATION DETAILS

SHEET ID

C-5.1

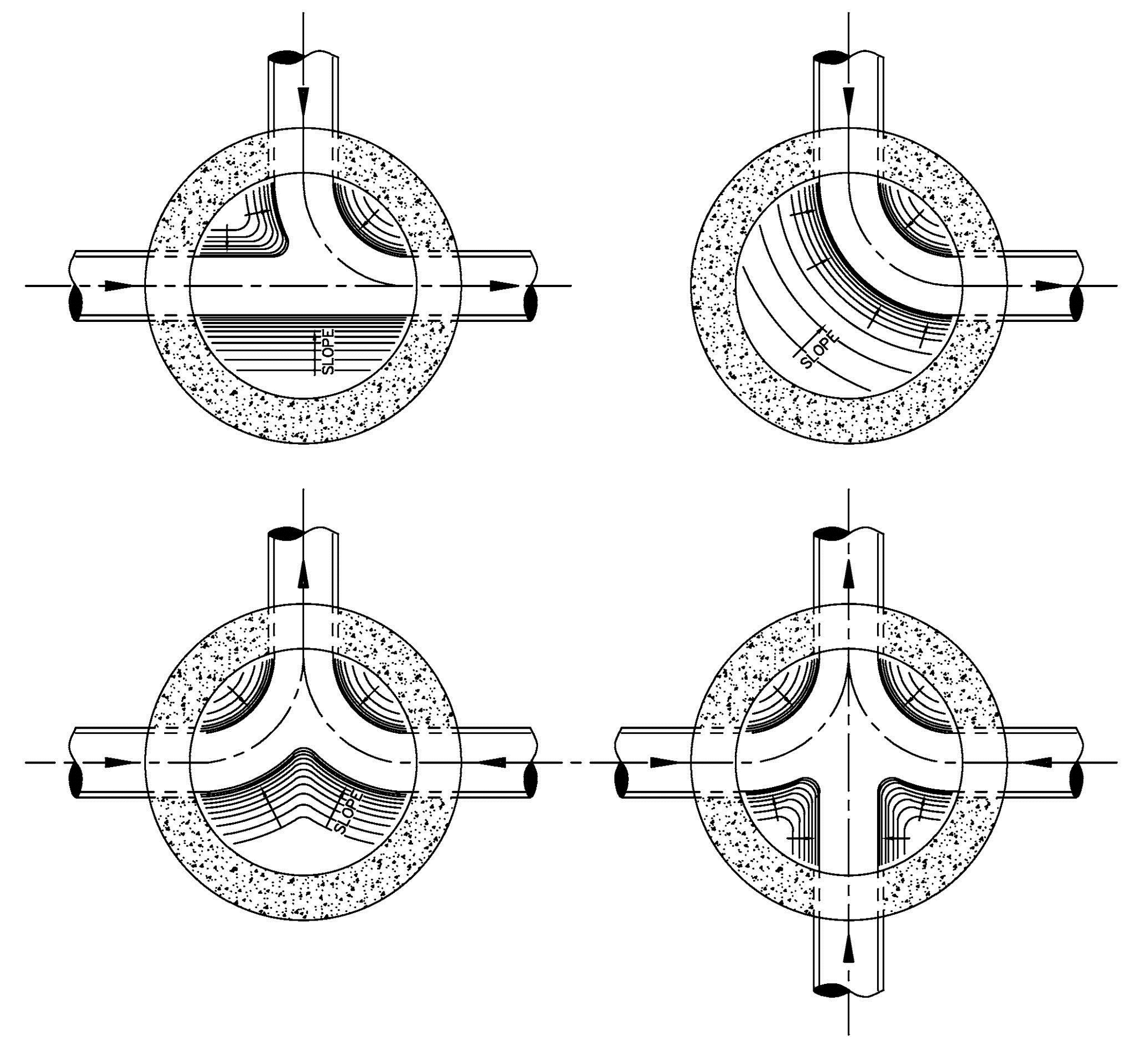
These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.
AUTHORIZED
PASCO


C.I. MANHOLE FRAME & COVER USF NO. 170-E ORS OR EQUAL W/ WORD "SANITARY", H-20 LOAD RATED.
2" BELOW MANHOLE RIM (TYP. ALL MANHOLES)
FINISHED GRADE
BRICK LEVELING COURSE
12" BOA TAPE OR WRAPIDSEAL
12" MAX.
ALL PRECAST UNITS MFG. IN ACCORDANCE W/ A.S.T.M. SPEC. C-478
2' DIA.
JOINTS TO BE SEALED W/ (2) O-RING SEALS OR (2) RAMNEK GASKETS (INSIDE & OUTSIDE) (ASTM C443)
18"-36"
12" BOA TAPE OR WRAPIDSEAL
16-'0" (MAX) VARIES
5" MIN.
12" BOA TAPE OR WRAPIDSEAL
4'-0" DIA.
FLEXIBLE BOOT W/ S.S. STRAP CLAMPS (ASTM C-923)
12"-48"
PVC SDR-26
3" CLEAR
8" (UP TO 13' DEEP) 12" (MORE THAN 13' DEEP)
NO. 4 REBAR AT 12" O.C. REINFORCING PER A.S.T.M. C-478
GROUT FILLET SLOPE GROUT ON EACH SIDE OF FLOW CHANNELS SEE MANHOLE BENCH AND INVERTS DETAIL S2.

NOTES:

1. BOA TAPE OR WRAPIDSEAL MUST BE USED ON ALL JOINTS, CASTINGS AND RISER RINGS: ON ALL JOINTS ON AIR RELEASES, MANHOLES, GREASE/WATER, OIL/WATER SEPARATORS.
2. BOA TAPE OR WARAPIDSEAL MUST BE USED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
3. THE TYPE OF INTERIOR LINING USED SHALL BE QUADEX GEOKRETE ON ALL STRUCTURES TO BE LINED.
4. A FORCEMAIN CONNECTION REQUIRES THE RECEIVING MANHOLE AND THE FOUR DOWNSTREAM & FOUR UPSTREAM MANHOLES TO BE LINED.
5. PASCO COUNTY MAY REQUIRE ADDITIONAL MANHOLES TO BE LINED BASED ON MANHOLE SPACING.
6. PASCO COUNTY SHALL HAVE THE OPTION OF REQUIRING A NEGATIVE PRESSURE TEST PER ASTM C-1244.
7. LIFT HOLES MUST NOT PENETRATE THE WALLS.
8. PRECAST CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS.
9. USE OF ECCENTRIC CONES REQUIRES SPECIAL APPROVAL.
10. EXTERIOR AND INTERIOR COATING, COAL TAR EPOXY, 2 COATS.
11. MANHOLE W/ CONNECTION SHALL HAVE 24 HR HYDROSTATIC LEAK TEST.
12. ALL LINED MANHOLES SHALL HAVE COMPOSITE FRAME AND COVER AS MANUFACTURED BY EAST JORDAN OR EQUAL.

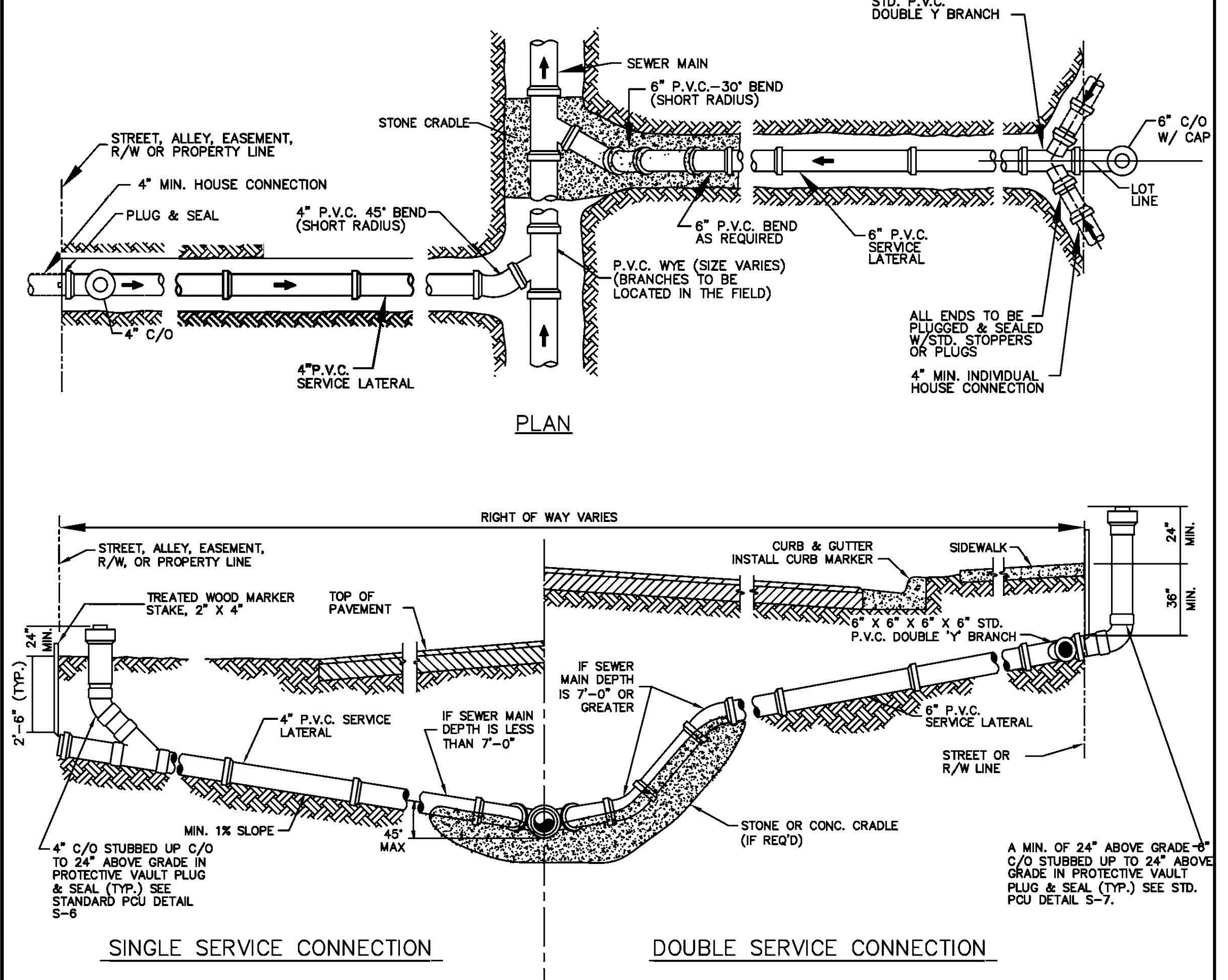
CREATED FEB 2003 REVISED JAN 2014 AUG 2015 FEB 2020	STANDARD MANHOLE	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL
	PASCO COUNTY UTILITIES	DETAIL S1



NOTES

- MANHOLE BENCH SHALL HAVE A STEEL TROWEL FINISH.
- MINIMUM DROP FROM INLET INVERT TO OUTLET INVERT SHALL BE NO LESS THAN 0.10 FEET.
- DEPTH OF CHANNELIZATION SHALL BE EQUAL TO 80% OF PIPE DIA. (MIN.)
- MINIMUM SHELF SLOPE TO BE 1"/FT FROM WALL TO CHANNEL.
- TYPE II CONCRETE FILL SHALL BE USED FOR MANHOLE BENCH.
- BENCHES AND INVERTS SHALL RECEIVE TWO COATS OF COAL TAR EPOXY APPLIED AT 120 SQ FT. PER GALLON PER COAT.

CREATED FEB 2003 REVISED JAN 2014 AUG 2015 FEB 2020	STANDARD MANHOLE BENCH AND INVERTS	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL
	PASCO COUNTY UTILITIES	DETAIL S2

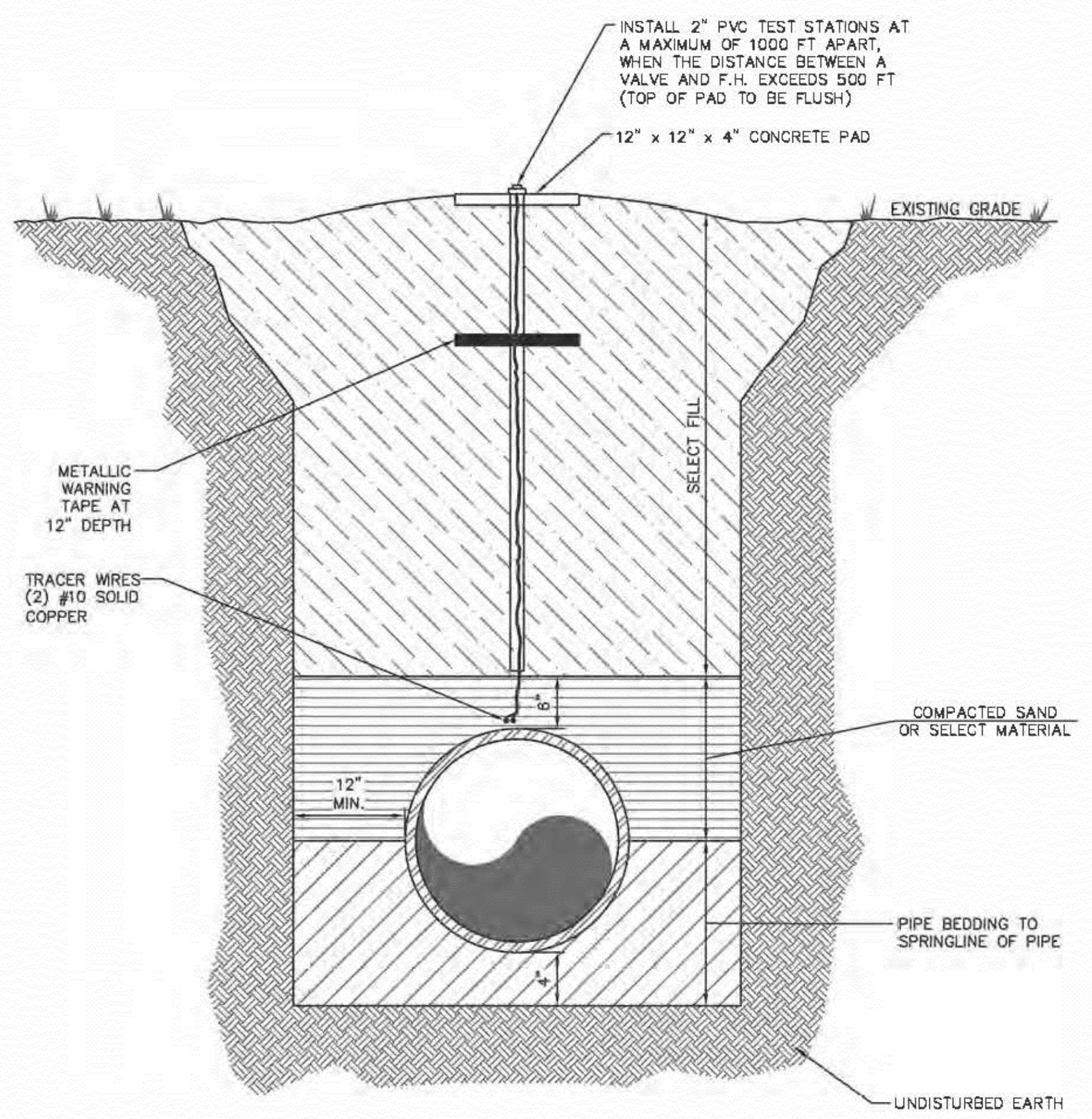

6" X 6" X 6" X 6" STD. P.V.C. DOUBLE Y BRANCH
SEWER MAIN
6" P.V.C.-30° BEND (SHORT RADIUS)
STONE CRADLE
STREET, ALLEY, EASEMENT, R/W OR PROPERTY LINE
4" MIN. HOUSE CONNECTION
PLUG & SEAL
4" P.V.C. 45° BEND (SHORT RADIUS)
6" C/O W/ CAP
LOT LINE
6" P.V.C. BEND AS REQUIRED
6" P.V.C. SERVICE LATERAL
P.V.C. WYE (SIZE VARIES) (BRANCHES TO BE LOCATED IN THE FIELD)
4" C/O
4"P.V.C. SERVICE LATERAL
ALL ENDS TO BE PLUGGED & SEALED W/STD. STOPPERS OR PLUGS
4" MIN. INDIVIDUAL HOUSE CONNECTION
PLAN
RIGHT OF WAY VARIES
STREET, ALLEY, EASEMENT, R/W, OR PROPERTY LINE
CURB & GUTTER INSTALL CURB MARKER
SIDEWALK
24" MIN.
36" MIN.
TREATED WOOD MARKER STAKE, 2" X 4"
TOP OF PAVEMENT
6" X 6" X 6" X 6" STD. P.V.C. DOUBLE 'Y' BRANCH
24" MIN.
2'-6" (TYP.)
IF SEWER MAIN DEPTH IS 7'-0" OR GREATER
4" P.V.C. SERVICE LATERAL
IF SEWER MAIN DEPTH IS LESS THAN 7'-0"
6" P.V.C. SERVICE LATERAL
STREET OR R/W LINE
MIN. 1% SLOPE
45° MAX
STONE OR CONC. CRADLE (IF REQ'D)
4" C/O STUBBED UP C/O TO 24" ABOVE GRADE IN PROTECTIVE VAULT PLUG & SEAL (TYP.) SEE STANDARD PCU DETAIL S-6
A MIN. OF 24" ABOVE GRADE 6" C/O STUBBED UP TO 24" ABOVE GRADE IN PROTECTIVE VAULT PLUG & SEAL (TYP.) SEE STD. PCU DETAIL S-7.
SINGLE SERVICE CONNECTION
DOUBLE SERVICE CONNECTION

SECTION

NOTE:

- CONTRACTOR SHALL MAKE, ON A CLEAN SET OF PLANS, THE FINAL STATIONING OR DISTANCE AND DIRECTION FROM MANHOLE OF EACH SERVICE LATERAL AND THEN GIVE TO ENGINEER FOR RECORD PURPOSES.
- PROVIDE 2" x 4" PRESSURE TREATED WOOD MARKER STAKE AT ALL SANITARY SERVICES (INCLUDE IN PIPE PRICE), TOP OF STAKE TO BE PAINTED WITH GREEN PAINT.
- THE MINIMUM DIAMETER OF ALL SERVICE LATERALS SHALL BE 4 INCHES.
- REFER TO STANDARD PCU DETAIL G-9 FOR CLEARANCE CRITERIA.
- SEWER SERVICES MUST NOT BE LOCATED IN REAR YARDS.

CREATED FEB 2003 REVISED JAN 2014 MAY 2015 FEB 2020	SANITARY SEWER LATERAL CONNECTION	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL
	PASCO COUNTY UTILITIES	DETAIL S4

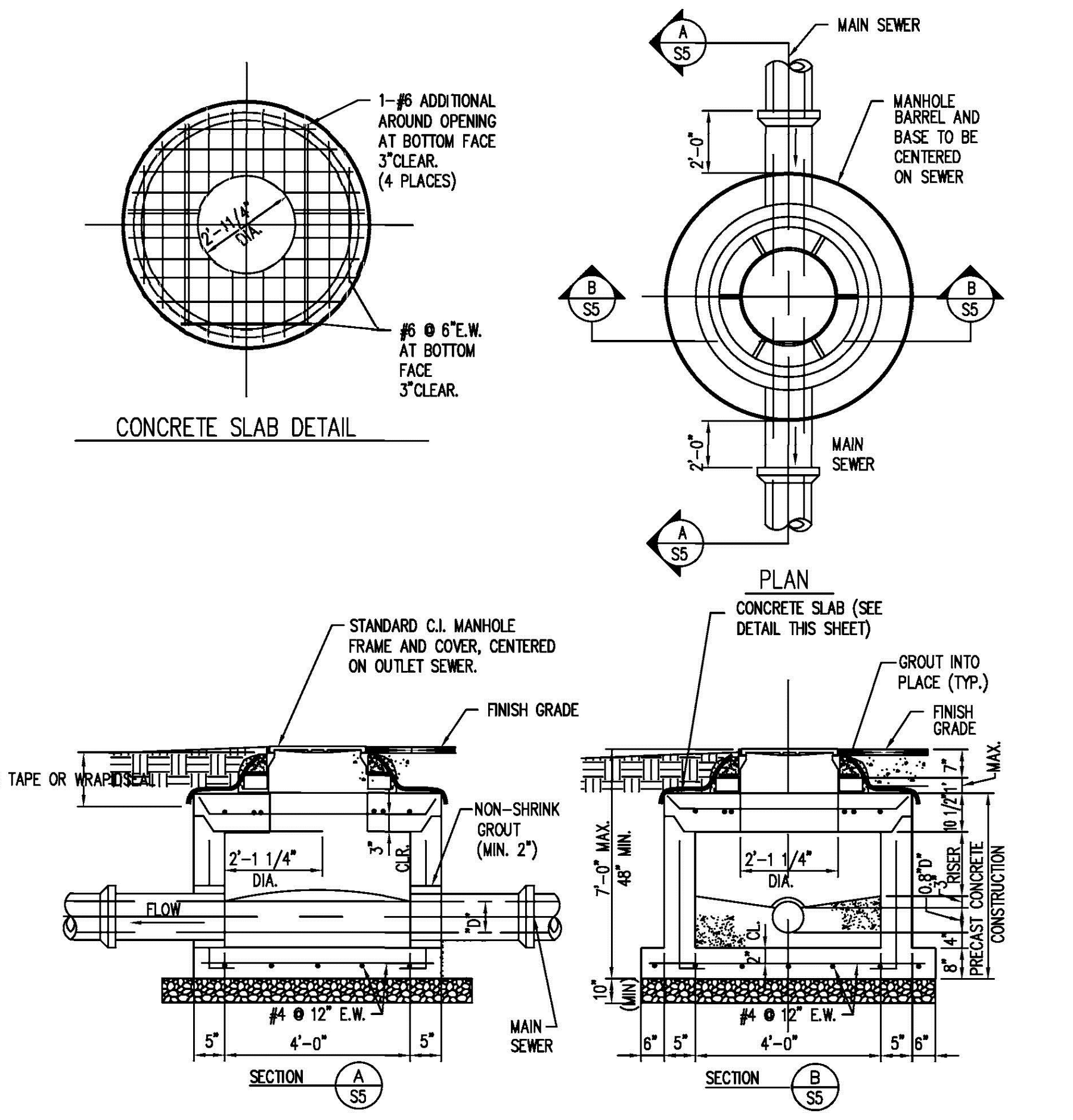

INSTALL 2" PVC TEST STATIONS AT A MAXIMUM OF 1000 FT APART, WHEN THE DISTANCE BETWEEN A VALVE AND F.H. EXCEEDS 500 FT (TOP OF PAD TO BE FLUSH)
12" x 12" x 4" CONCRETE PAD
EXISTING GRADE
SELECT FILL
METALLIC WARNING TAPE AT 12" DEPTH
TRACER WIRES (2) #10 SOLID COPPER
6"
COMPACTED SAND OR SELECT MATERIAL
12" MIN.
PIPE BEDDING TO SPRINGLINE OF PIPE
4"
UNDISTURBED EARTH

NOTES:

- COMPACTION TO FINISHED GRADE IS TO BE 95% MOD. PROCTOR.
- SELECT FILL TO BE PLACED AND COMPACTED IN 12" LAYERS. ROLLING EQUIPMENT SHALL NOT BE USED FOR COMPACTION UNTIL A MINIMUM OF 6" OF COMMON FILL HAS BEEN PLACED AND COMPACTED OVER THE PIPE. 18" OF FILL SHALL BE PLACED BEFORE A HYDROHAMMER MAY BE USED FOR COMPACTION.

NOTE:
ANY WIRE SPLICING SHALL USE CAMPBELL HEAT SHRINK SPLICE KIT LSK4-B OR APPROVED EQUAL

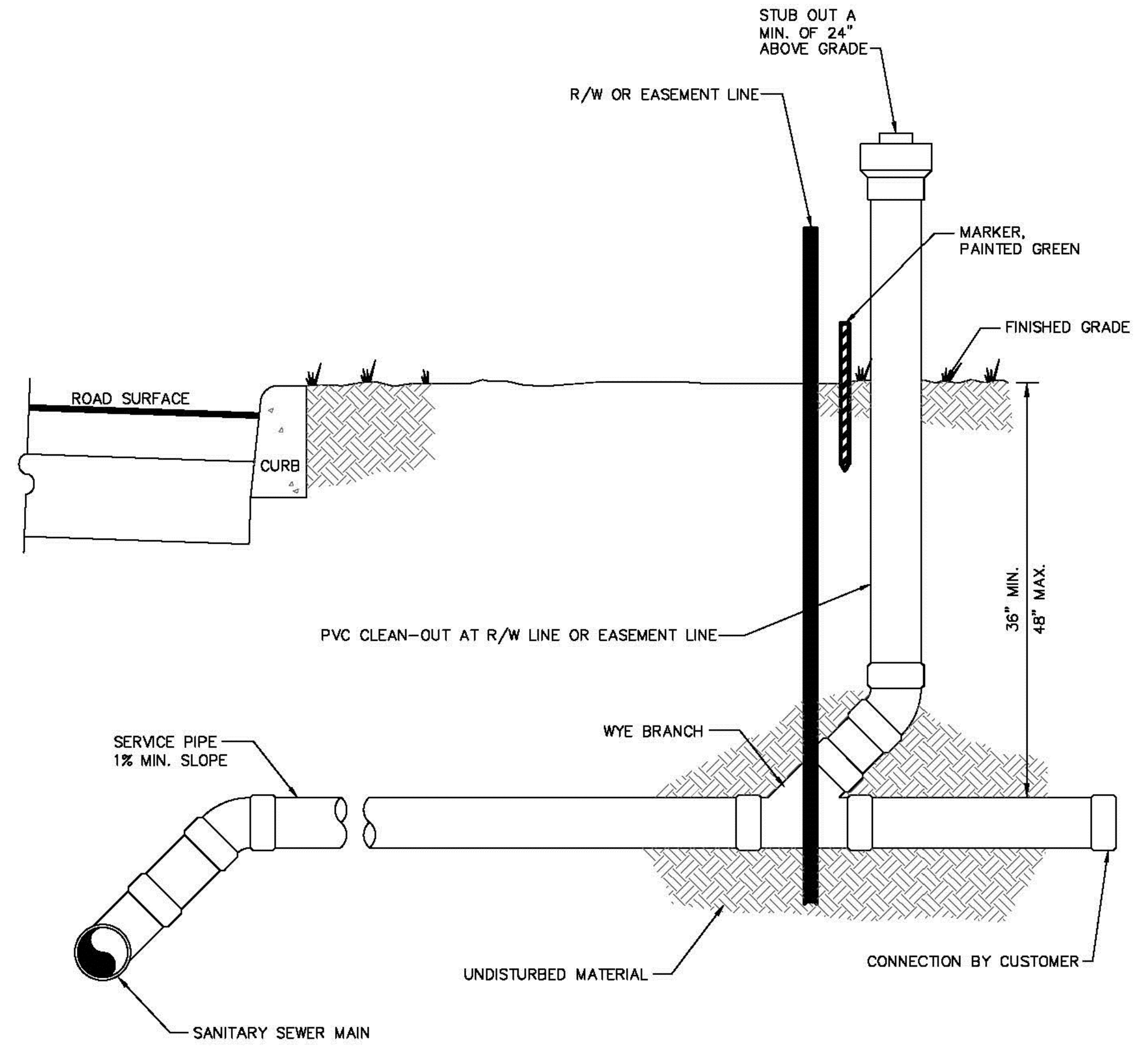
CREATED FEB 2003 REVISED JAN 2014 MAY 2015 FEB 2020	PIPE LAYING CONDITIONS UNPAVED AREAS	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL
	PASCO COUNTY UTILITIES	DETAIL G2


1-#6 ADDITIONAL AROUND OPENING AT BOTTOM FACE 3"CLEAR. (4 PLACES)
2'-1 1/4" DIA.
#6 @ 6"E.W. AT BOTTOM FACE 3"CLEAR.
CONCRETE SLAB DETAIL
A S5
MAIN SEWER
MANHOLE BARREL AND BASE TO BE CENTERED ON SEWER
2'-0"
B S5
B S5
2'-0"
MAIN SEWER
A S5
PLAN
STANDARD C.I. MANHOLE FRAME AND COVER, CENTERED ON OUTLET SEWER.
FINISH GRADE
12" BOA TAPE OR WRAPIDSEAL
NON-SHRINK GROUT (MIN. 2")
3" CLR.
2'-1 1/4" DIA.
FLOW
"D"
#4 @ 12" E.W.
5"
4'-0"
5"
MAIN SEWER
SECTION A S5
CONCRETE SLAB (SEE DETAIL THIS SHEET)
GROUT INTO PLACE (TYP.)
FINISH GRADE
7" MAX.
10 1/2"
7'-0" MAX.
48" MIN.
2'-1 1/4" DIA.
0.8"D"
3"
RISER
PRECAST CONCRETE CONSTRUCTION
CL.
2"
4"
8"
10" (MIN)
#4 @ 12" E.W.
6"
5"
4'-0"
5"
6"
SECTION B S5

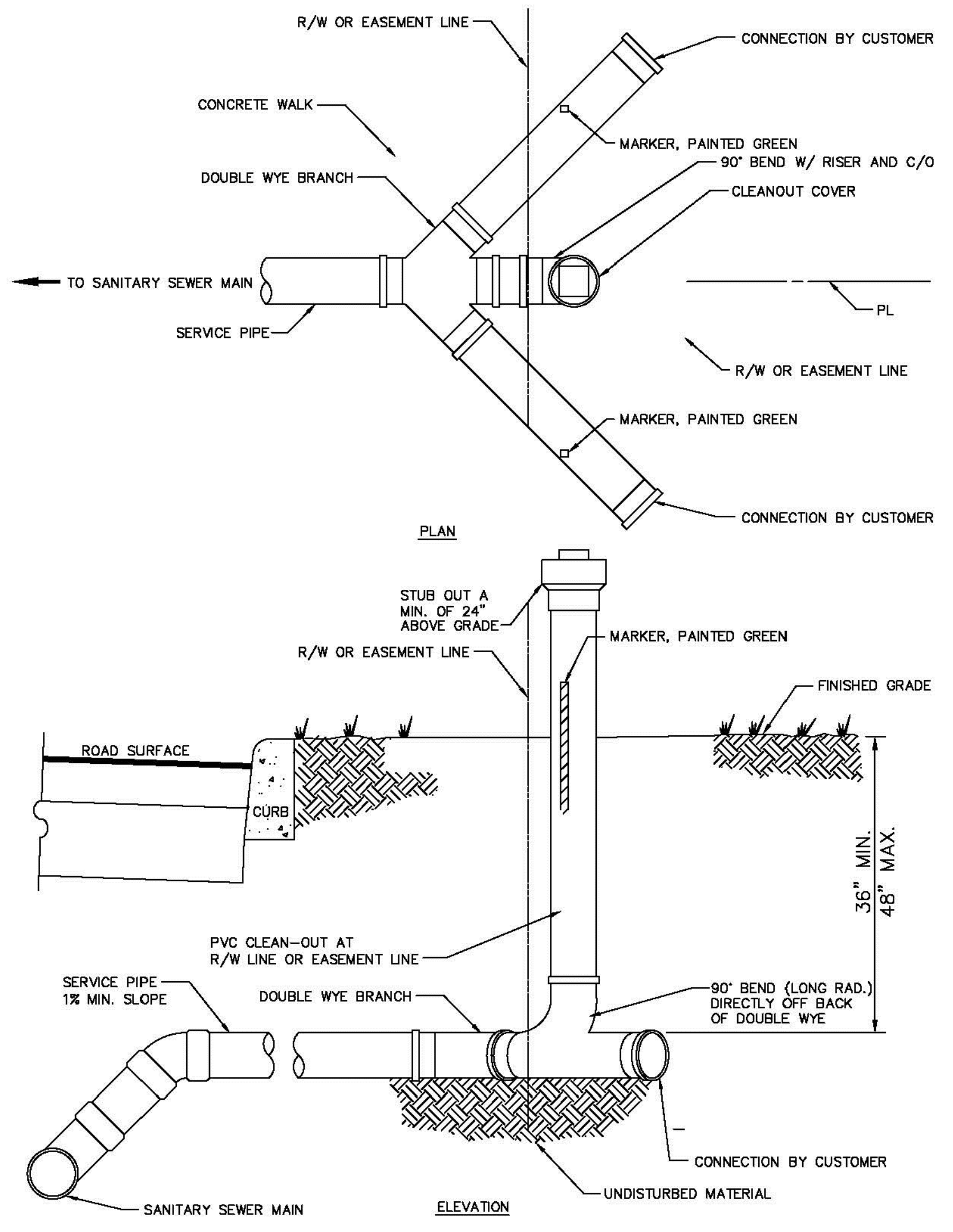
NOTES:

1. BOA TAPE OR WRAPIDSEAL MUST BE USED ON ALL JOINTS, CASTINGS AND RISER RINGS: ON ALL JOINTS ON AIR RELEASES, MANHOLES, GREASE/WATER, OIL/WATER SEPARATORS.
2. BOA TAPE OR WRAPIDSEAL MUST BE USED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
3. THE TYPE OF INTERIOR LINING USED SHALL BE GEOKRETE ON ALL STRUCTURES TO BE LINED.
4. A FORCEMAIN CONNECTION REQUIRES THE RECEIVING MANHOLE AND THE FOUR DOWNSTREAM & FOUR UPSTREAM MANHOLES TO BE LINED.
5. PASCO COUNTY MAY REQUIRE ADDITIONAL MANHOLES TO BE LINED BASED ON MANHOLE SPACING.
6. PASCO COUNTY SHALL HAVE THE OPTION OF REQUIRING A NEGATIVE PRESSURE TEST PER ASTM C-1244.
7. LIFT HOLES MUST NOT PENETRATE THE WALLS.
8. PRECAST CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS.
9. EXTERIOR AND INTERIOR COATING, COAL TAR EPOXY, 2 COATS.
10. MANHOLE W/ CONNECTION SHALL HAVE 24 HR HYDROSTATIC LEAK TEST.
11. ALL LINED MANHOLES, AS WELL AS THE LAST MANHOLE BEFORE A PUMP STATION, SHALL HAVE COMPOSITE RINGS AND COVER AS MANUFACTURED BY EAST JORDAN OR EQUAL.

CREATED FEB 2003 REVISED JAN 2014 AUG 2015 FEB 2020	STANDARD SHALLOW MANHOLE	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL
	PASCO COUNTY UTILITIES	DETAIL S5

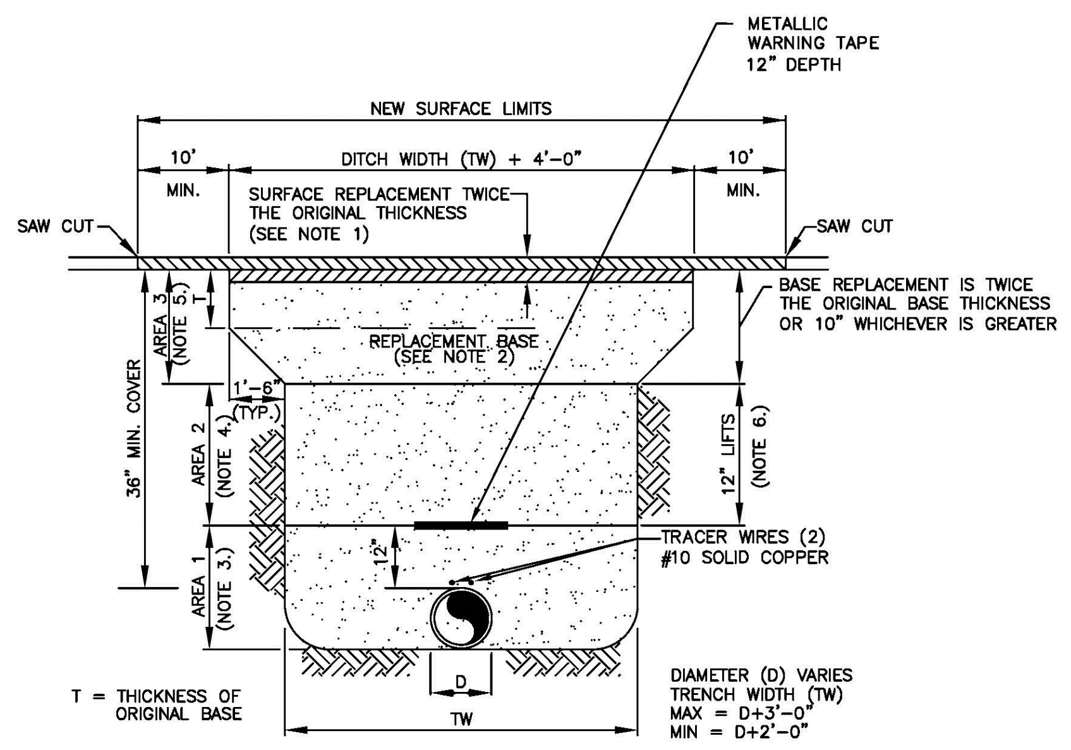


CREATED AUG 2015 REVISED MAY 2016 JUNE 2017 AUG 2019	SANITARY SEWER – SINGLE WYE CONNECTION AND TYPICAL CLEAN-OUT	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL
	PASCO COUNTY UTILITIES	DETAIL S6



NTS

CREATED AUG 2015 REVISED MAY 2016 JUNE 2017 AUG 2019	SANITARY SEWER – DOUBLE WYE CONNECTION AND TYPICAL CLEAN-OUT	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL
	PASCO COUNTY UTILITIES	DETAIL S7


METALLIC WARNING TAPE 12" DEPTH
NEW SURFACE LIMITS
10' MIN.
DITCH WIDTH (TW) + 4'-0"
10' MIN.
SAW CUT
SURFACE REPLACEMENT TWICE THE ORIGINAL THICKNESS (SEE NOTE 1)
SAW CUT
BASE REPLACEMENT IS TWICE THE ORIGINAL BASE THICKNESS OR 10" WHICHEVER IS GREATER
T
AREA 3 (NOTE 5.)
REPLACEMENT BASE (SEE NOTE 2)
36" MIN. COVER
1'-6" (TYP.)
AREA 2 (NOTE 4.)
12" LIFTS (NOTE 6.)
TRACER WIRES (2) #10 SOLID COPPER
12"
AREA 1 (NOTE 3.)
D
TW
T = THICKNESS OF ORIGINAL BASE
DIAMETER (D) VARIES
TRENCH WIDTH (TW)
MAX = D+3'-0"
MIN = D+2'-0"

NOTES

1. REPLACEMENT ASPHALT SHALL BE TWICE THE ORIGINAL PAVEMENT THICKNESS WITH A MINIMUM OF TWO (2) INCHES AND SHALL BE SP 12.5 OR TYPE S-3 ASPHALT, AND FC-3 IF REQUIRED.
2. REPLACEMENT BASE SHALL BE NEW MATERIAL NOT REUSED FROM EXCAVATION. ACCEPTABLE BASE ALTERNATIVE SHALL BE TYPE ABC OR BETTER ASPHALT PLACED AT A TOTAL THICKNESS OF SIX (6) INCHES.
3. AREA 1 – BACKFILL SHALL BE PLACED IN SIX (6) INCH LIFT WITH EACH LIFT COMPACTED TO 98% OF ASTM FM5-521 USING MECHANICAL TAMPERS.
4. AREA 2 – BACKFILL SHALL BE PLACED IN TWELVE (12) INCH LIFTS WITH EACH LIFT COMPACTED TO 98% OF FM5-521 USING APPROPRIATE COMPACTING EQUIPMENT.
5. AREA 3 – LIMEROCK (LBR 100) BASE SHALL BE CONSTRUCTED IN LIFTS NOT GREATER THAN SIX (6) INCHES COMPACTED THICKNESS, AND HAVE A DENSITY EQUAL TO 98% OF FM5-521.
6. FLOWABLE FILL MAY BE PLACED ABOVE AREA 1 UP TO THE BOTTOM OF THE RESTORED BASE. MIX DESIGN SHALL CONFORM TO FDOT STANDARD SPECIFICATIONS SECTION 121. IF FLOWABLE FILL IS USED FOR TRENCH BACKFILL, THE AMOUNT OF COVER ABOVE THE TOP OF PIPE TO AREA 2 MAY BE REDUCED TO 6 INCHES.
7. NEW SURFACE LIMITS INCLUDE 10 FOOT MINIMUM OVERLAP BEYOND DITCH WIDTH ON LOCAL STREETS. FOR COLLECTOR AND ARTERIAL ROADWAYS, PASCO COUNTY WILL REQUIRE ADDITIONAL WIDTH OF NEW SURFACE LIMITS, UP TO 25 FEET EACH SIDE OF DITCH WIDTH.
8. IN CASE OF OPEN CUT OF COUNTY COLLECTOR OR ARTERIAL ROADS, OR IN OPEN CUTS WITHIN FDOT RIGHT-OF-WAY, PIPE SHALL BE ENCASED IN A STEEL CASING PIPE, REFER TO DETAIL G7 FOR CASING PIPE SIZE AND THICKNESS REQUIREMENTS AND CASING SPACER PATTERN.

Tests shall be submitted to Pasco County Engineering Inspections verifying open cut restoration is per general notes before release of permit or guarantee, if applicable. Material and thickness verification shall be required. All testing shall be Pasco County Services Department Testing Specificatiions for Construction of Roads, Storm Drainage and Utilities; October 2006.

CREATED FEB 2020 REVISED	PIPE LAYING CONDITIONS EXISTING PAVED AREAS	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL
	PASCO COUNTY UTILITIES	DETAIL G3

REVISIONS

REV	DATE	DESCRIPTION
1	---	--- ---
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BARDEZ
5048 POINTE EMERALD LANE; BOCA RATON, FL 33486
(0) 561-465-5949 | (e) nbarnett@bardezco.com

PROJECT DESCRIPTION

VILLA RICHEY

SITE ADDRESS: 4206/4210 MADISON ST.
NEW PORT RICHEY, FL
PROPERTY ID: 16-26-16-0010-06100-0010
PREPARED FOR: VILLA RICHEY, LLC

E-CERTIFICATION

Digitally signed by NOEL BARNETT
Date: 2024.03.26 16:43:21 -04'00'

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY NOEL A. BARNETT, PE ON THE DATE ADJACENT TO THE SEAL.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

CERTIFICATION

DATE: 03-26-2024

NOEL BARNETT
PROFESSIONAL ENGINEER
FL LICENSE NO. 72006
FL BUSINESS C.A. NO.: 32223

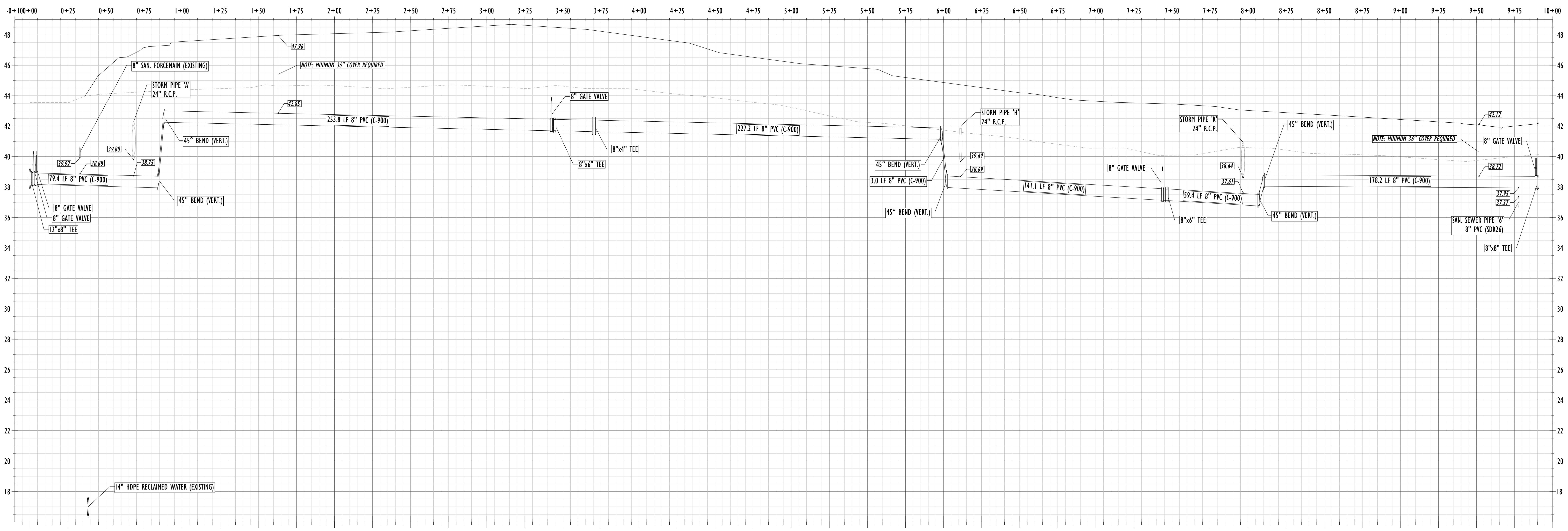
SHEET TITLE

SANITARY SEWER DETAILS

SHEET ID

C-5.2

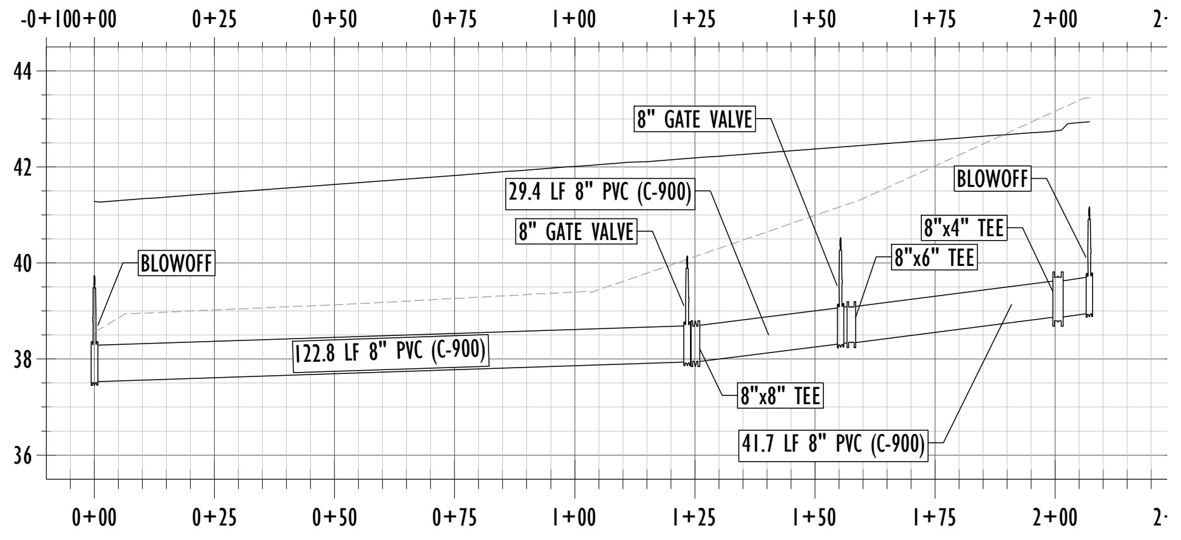
These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.
AUTHORIZED
PASCO



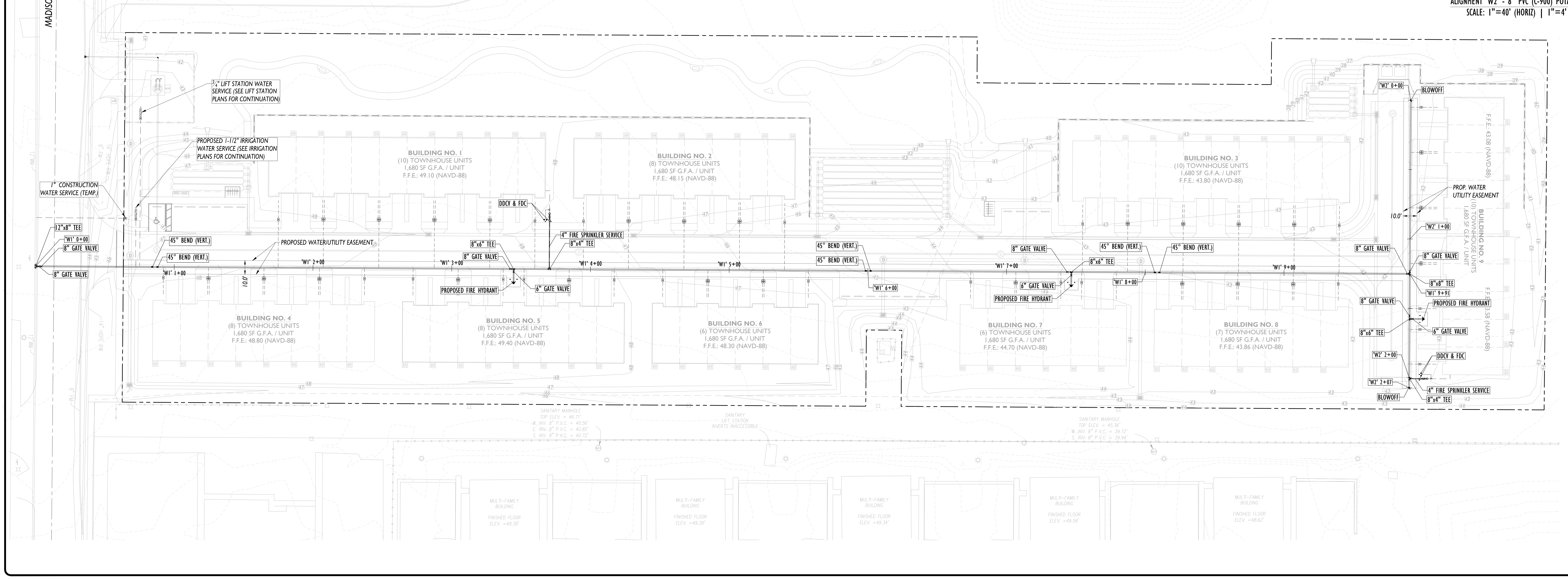
ALIGNMENT 'W1' - 8" PVC (C-900) POTABLE WATER
SCALE: 1"=40' (HORIZ) | 1"=4' (VERT)

UTILITY CONSTRUCTION NOTES

1. ALL PROPOSED SANITARY SEWER MANHOLES TO BE LINED. REFER TO PASCO COUNTY UTILITIES DETAIL NO. S1 FOR ADDITIONAL INFORMATION.
2. ALL MATERIALS AND LABOR SHALL MEET THE SPECIFICATIONS REQUIRED BY THE COUNTY. ALL CONSTRUCTION SHALL BE PERFORMED UNDER THE INSPECTION OF THE COUNTY AND IN STRICT COMPLIANCE WITH THE STANDARDS OF THE COUNTY DESIGN STANDARDS.
3. ALL NEWLY INSTALLED WATER DISTRIBUTION MAINS AND SERVICE LATERALS SHALL BE COLOR CODED BLUE.
4. ALL NEWLY INSTALLED FORCE MAINS AND GRAVITY LINES SHALL BE COLOR CODED GREEN.
5. FIRE HYDRANTS SHALL BE FLOW-TESTED AND COLOR-CODED BASED ON FLOW RESULTS.
6. CONNECTIONS TO THE COUNTY'S SYSTEM SHALL BE MADE BY WET TAP. WET TAPS SHALL BE PERFORMED EXCLUSIVELY BY PASCO COUNTY UTILITIES AT THE DEVELOPER'S EXPENSE. EXCAVATION, BACKFILL, AND SURFACE RESTORATION SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
7. CONTRACTOR'S RESPONSIBILITIES REGARDING WET TAPS TWO INCHES AND LARGER SHALL BE AS FOLLOWS:
    a. 2" ONLY: THE EXCAVATED TRENCH MUST BE DRY OR THE TRENCH WILL REQUIRE ROCK AND A PUMP TO BE IN PLACE. THE MINIMUM DISTANCE FROM THE FACE OF THE VALVE TO THE WALL OF THE TRENCH IS TO BE SIX FEET. THE COUNTY WILL PROVIDE THE TAPPING SADDLE, CORPORATION STOP, STAINLESS STEEL NIPPLE, AND IRON BODY VALVE.
    b. 3" AND LARGER: THE CONTRACTOR WILL SUPPLY A TAPPING SADDLE BEING EPOXY COATED, A TAPPING VALVE WITH MECHANICAL JOINT AND THE EQUIPMENT TO PROVIDE, AND CONDUCT A PRESSURE TEST. COUNTY PERSONNEL WILL WITNESS THE PRESSURE TEST WHICH MUST BE AT 150 PSI FOR DURATION OF THIRTY MINUTES.
    c. THE CONTRACTOR IS RESPONSIBLE FOR THE EXCAVATION BEFORE ANY COUNTY PERSONNEL WILL ENTER AN EXCAVATED AREA. IF THE TRENCH IS FOUR FEET IN DEPTH OR DEEPER, IT WILL REQUIRE A TRENCH BOX OR SLOPING, AND A LADDER ACCORDING TO OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS.



ALIGNMENT 'W2' - 8" PVC (C-900) POTABLE WATER
SCALE: 1"=40' (HORIZ) | 1"=4' (VERT)


MADISON STREET
1 1/2" LIFT STATION WATER SERVICE (SEE LIFT STATION PLANS FOR CONTINUATION)
PROPOSED 1-1/2" IRRIGATION WATER SERVICE (SEE IRRIGATION PLANS FOR CONTINUATION)
1" CONSTRUCTION WATER SERVICE (TEMP.)
BUILDING NO. 1 (10) TOWNHOUSE UNITS 1,680 SF G.F.A. / UNIT F.F.E.: 49.10 (NAVD-88)
BUILDING NO. 2 (8) TOWNHOUSE UNITS 1,680 SF G.F.A. / UNIT F.F.E.: 48.15 (NAVD-88)
BUILDING NO. 3 (10) TOWNHOUSE UNITS 1,680 SF G.F.A. / UNIT F.F.E.: 43.80 (NAVD-88)
BUILDING NO. 4 (8) TOWNHOUSE UNITS 1,680 SF G.F.A. / UNIT F.F.E.: 48.80 (NAVD-88)
BUILDING NO. 5 (8) TOWNHOUSE UNITS 1,680 SF G.F.A. / UNIT F.F.E.: 49.40 (NAVD-88)
BUILDING NO. 6 (6) TOWNHOUSE UNITS 1,680 SF G.F.A. / UNIT F.F.E.: 48.30 (NAVD-88)
BUILDING NO. 7 (6) TOWNHOUSE UNITS 1,680 SF G.F.A. / UNIT F.F.E.: 44.70 (NAVD-88)
BUILDING NO. 8 (7) TOWNHOUSE UNITS 1,680 SF G.F.A. / UNIT F.F.E.: 43.86 (NAVD-88)
BUILDING NO. 9
PROPOSED WATER/UTILITY EASEMENT
PROP. WATER UTILITY EASEMENT
12"x8" TEE
'W1' 0+00
'W1' 1+00
'W1' 2+00
'W1' 3+00
'W1' 4+00
'W1' 5+00
'W1' 6+00
'W1' 7+00
'W1' 8+00
'W1' 9+00
'W1' 9+91
'W2' 0+00
'W2' 1+00
'W2' 2+00
'W2' 2+07
8" GATE VALVE
6" GATE VALVE
45° BEND (VERT.)
8"x6" TEE
8"x4" TEE
8"x8" TEE
DDCV & FDC
4" FIRE SPRINKLER SERVICE
PROPOSED FIRE HYDRANT
BLOWOFF
10.0'

0 20' 40'
1"=40'

SYMBOL LEGEND

═	PROPOSED POTABLE WATER MAIN
┼	SINGLE DOMESTIC WATER SERVICE
╪	DUAL DOMESTIC WATER SERVICE

REVISIONS

REV	DATE	DESCRIPTION
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BARDEZ

5048 POINTE EMERALD LANE; BOCA RATON, FL 33486
(0) 561-465-5949 | (e) nbarnett@bardezco.com

PROJECT DESCRIPTION

VILLA RICHEY

SITE ADDRESS: 4206/4210 MADISON ST.
NEW PORT RICHEY, FL
PROPERTY ID: 16-26-16-0010-06100-0010
PREPARED FOR: VILLA RICHEY, LLC

E-CERTIFICATION

NOEL A. BARNETT No. 72006

Digitally signed by NOEL BARNETT
Date: 2024.03.26 16:43:35 -04'00'

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY NOEL A. BARNETT, PE ON THE DATE ADJACENT TO THE SEAL.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

CERTIFICATION

DATE: 03-26-2024

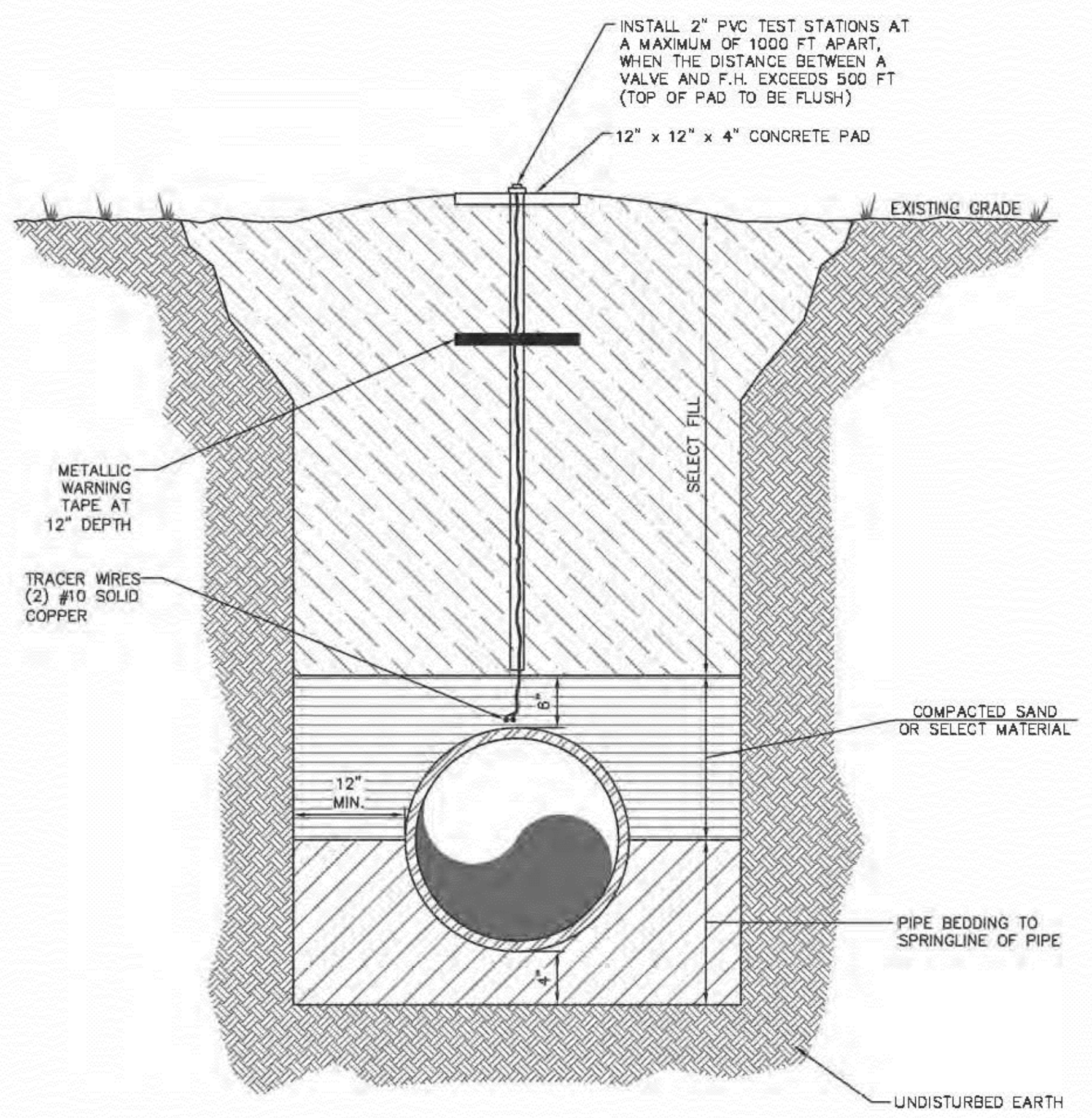
NOEL BARNETT
PROFESSIONAL ENGINEER
FL LICENSE NO. 72006
FL BUSINESS C.A. NO.: 32223

SHEET TITLE

POTABLE
WATER
PLAN

SHEET ID

C-6.0


INSTALL 2" PVC TEST STATIONS AT A MAXIMUM OF 1000 FT APART, WHEN THE DISTANCE BETWEEN A VALVE AND F.H. EXCEEDS 500 FT (TOP OF PAD TO BE FLUSH)
12" x 12" x 4" CONCRETE PAD
EXISTING GRADE
SELECT FILL
METALLIC WARNING TAPE AT 12" DEPTH
TRACER WIRES (2) #10 SOLID COPPER
6"
COMPACTED SAND OR SELECT MATERIAL
12" MIN.
PIPE BEDDING TO SPRINGLINE OF PIPE
4"
UNDISTURBED EARTH

NOTES:
- COMPACTION TO FINISHED GRADE IS TO BE 95% MOD. PROCTOR.
- SELECT FILL TO BE PLACED AND COMPACTED IN 12" LAYERS. ROLLING EQUIPMENT SHALL NOT BE USED FOR COMPACTION UNTIL A MINIMUM OF 6" OF COMMON FILL HAS BEEN PLACED AND COMPACTED OVER THE PIPE. 18" OF FILL SHALL BE PLACED BEFORE A HYDROHAMMER MAY BE USED FOR COMPACTION.

NOTE:
ANY WIRE SPLICING SHALL USE CAMPBELL HEAT SHRINK SPLICE KIT LSK4–B OR APPROVED EQUAL

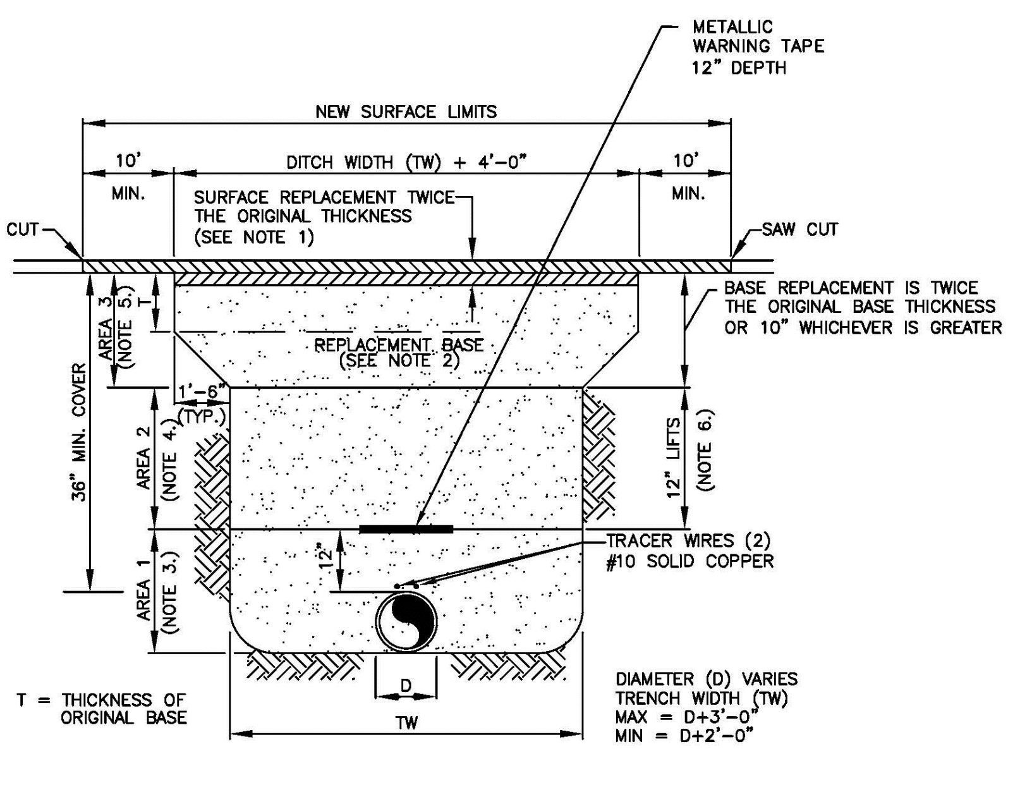
CREATED FEB 2003
REVISED JAN 2014
MAY 2015
FEB 2020

PIPE LAYING CONDITIONS
UNPAVED AREAS

PROVIDED FOR INFORMATIONAL PURPOSES ONLY.
NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL

PASCO COUNTY UTILITIES

DETAIL G2


METALLIC WARNING TAPE 12" DEPTH
NEW SURFACE LIMITS
10' MIN.
DITCH WIDTH (TW) + 4'–0"
10' MIN.
SURFACE REPLACEMENT TWICE THE ORIGINAL THICKNESS (SEE NOTE 1)
SAW CUT
SAW CUT
BASE REPLACEMENT IS TWICE THE ORIGINAL BASE THICKNESS OR 10" WHICHEVER IS GREATER
AREA 3 (NOTE 5.)
T
REPLACEMENT BASE (SEE NOTE 2)
36" MIN. COVER
1'–6" (TYP.)
AREA 2 (NOTE 4.)
12" LIFTS (NOTE 6.)
12"
TRACER WIRES (2) #10 SOLID COPPER
AREA 1 (NOTE 3.)
D
TW
T = THICKNESS OF ORIGINAL BASE
DIAMETER (D) VARIES
TRENCH WIDTH (TW)
MAX = D+3'–0"
MIN = D+2'–0"

NOTES

1. REPLACEMENT ASPHALT SHALL BE TWICE THE ORIGINAL PAVEMENT THICKNESS WITH A MINIMUM OF TWO (2) INCHES AND SHALL BE SP 12.5 OR TYPE S–3 ASPHALT, AND FC–3 IF REQUIRED.
2. REPLACEMENT BASE SHALL BE NEW MATERIAL NOT REUSED FROM EXCAVATION. ACCEPTABLE BASE ALTERNATIVE SHALL BE TYPE ABC OR BETTER ASPHALT PLACED AT A TOTAL THICKNESS OF SIX (6) INCHES.
3. AREA 1 – BACKFILL SHALL BE PLACED IN SIX (6) INCH LIFT WITH EACH LIFT COMPACTED TO 98% OF ASTM FM5–521 USING MECHANICAL TAMPERS.
4. AREA 2 – BACKFILL SHALL BE PLACED IN TWELVE (12) INCH LIFTS WITH EACH LIFT COMPACTED TO 98% OF FM5–521 USING APPROPRIATE COMPACTING EQUIPMENT.
5. AREA 3 – LIMEROCK (LBR 100) BASE SHALL BE CONSTRUCTED IN LIFTS NOT GREATER THAN SIX (6) INCHES COMPACTED THICKNESS, AND HAVE A DENSITY EQUAL TO 98% OF FM5–521.
6. FLOWABLE FILL MAY BE PLACED ABOVE AREA 1 UP TO THE BOTTOM OF THE RESTORED BASE. MIX DESIGN SHALL CONFORM TO FDOT STANDARD SPECIFICATIONS SECTION 121. IF FLOWABLE FILL IS USED FOR TRENCH BACKFILL, THE AMOUNT OF COVER ABOVE THE TOP OF PIPE TO AREA 2 MAY BE REDUCED TO 6 INCHES.
7. NEW SURFACE LIMITS INCLUDE 10 FOOT MINIMUM OVERLAP BEYOND DITCH WIDTH ON LOCAL STREETS. FOR COLLECTOR AND ARTERIAL ROADWAYS, PASCO COUNTY WILL REQUIRE ADDITIONAL WIDTH OF NEW SURFACE LIMITS, UP TO 25 FEET EACH SIDE OF DITCH WIDTH.
8. IN CASE OF OPEN CUT OF COUNTY COLLECTOR OR ARTERIAL ROADS, OR IN OPEN CUTS WITHIN FDOT RIGHT–OF–WAY, PIPE SHALL BE ENCASED IN A STEEL CASING PIPE, REFER TO DETAIL G7 FOR CASING PIPE SIZE AND THICKNESS REQUIREMENTS AND CASING SPACER PATTERN.

Tests shall be submitted to Pasco County Engineering Inspections verifying open cut restoration is per general notes before release of permit or guarantee, if applicable. Material and thickness verification shall be required. All testing shall be Pasco County Services Department Testing Specificatiions for Construction of Roads, Storm Drainage and Utilities; October 2006.

CREATED FEB 2020
REVISED

PIPE LAYING CONDITIONS
EXISTING PAVED AREAS

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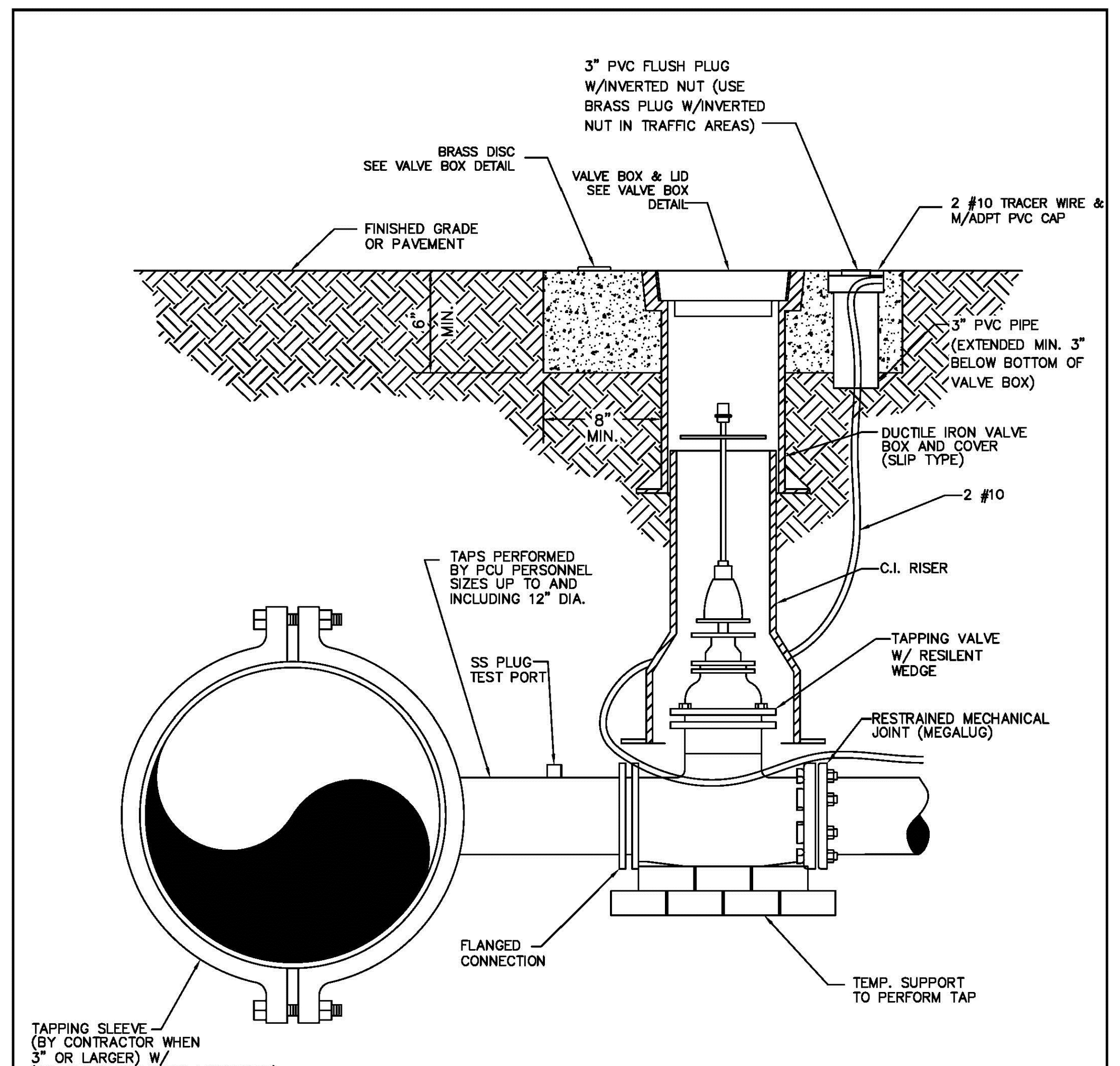
PASCO COUNTY UTILITIES

DETAIL G3


3" PVC FLUSH PLUG W/INVERTED NUT (USE BRASS PLUG W/INVERTED NUT IN TRAFFIC AREAS)
BRASS DISC SEE VALVE BOX DETAIL
VALVE BOX & LID SEE VALVE BOX DETAIL
2 #10 TRACER WIRE & M/ADPT PVC CAP
FINISHED GRADE OR PAVEMENT
6" MIN.
3" PVC PIPE (EXTENDED MIN. 3" BELOW BOTTOM OF VALVE BOX)
8" MIN.
DUCTILE IRON VALVE BOX AND COVER (SLIP TYPE)
2 #10
TAPS PERFORMED BY PCU PERSONNEL SIZES UP TO AND INCLUDING 12" DIA.
C.I. RISER
SS PLUG TEST PORT
TAPPING VALVE W/ RESILENT WEDGE
RESTRAINED MECHANICAL JOINT (MEGALUG)
FLANGED CONNECTION
TEMP. SUPPORT TO PERFORM TAP
TAPPING SLEEVE (BY CONTRACTOR WHEN 3" OR LARGER) W/ (ALL STAINLESS STEEL HARDWARE) EPOXY COATED

ELEVATION

NOTES:
- SADDLE TO BE INSTALLED 2'–0" MIN. FROM ANY BELL OR FITTING.
- MECHANICAL JOINTS/UNDERGROUND PIPING SHALL BE RESTRAINED AS SPECIFIED BY COUNTY/ENGINEER.
- VALVE EXTENSION ROD SHALL BE UTILIZED, AS NECESSARY, SO THAT VALVE OPERATING NUT IS A MAXIMUM OF 3' BELOW GRADE.
- AFTER SETTING OF SLEEVE, CONTRACTOR TO NOTIFY PCU MAINTENANCE DEPT. FOR WET TAP.
- PRESSURE TEST 150 PSI FOR A MIN. OF 1/2 HOUR AFTER INSTALLATION
- BACK FILL PER REQUIREMENTS OF DETAIL G–3

W, RW, FM

CREATED FEB 2003
REVISED JAN 2014
JUNE 2015
FEB 2020

TAPPING VALVE AND SLEEVE

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PASCO COUNTY UTILITIES

DETAIL G6

SEE NOTES DETAIL G–11

		4"	6"	8"	12"	16"	18"	20"	24"	30"
L	6"	31(44)								
A	8"	55(79)	32(46)							
R	12"	94(134)	79(113)	57(82)						
G	16"		117(166)	101(144)	59(84)					
E	18"			120(171)	83(118)	31(44)				
	20"				104(149)	58(83)	31(44)	58(83)		
E	24"				143(204)	106(151)	83(119)	58(83)		
N	30"					163(232)	145(207)	126(180)	81(115)	
D	36"							181(258)	145(207)	80(114)
	48"							266(381)	241(345)	196(280)

REDUCER RESTRAINED JOINTS (150 PSI)
MINIMUM LINEAR FEET OF BRANCH PIPE TO BE RESTRAINED FROM JOINT TEE

TEE

		BRANCH										
		4"	6"	8"	12"	16"	18"	20"	24"	30"	36"	48"
	4"	21(29)										
	6"	10(15)	38(54)									
	8"	0(0)	30(43)	55(78)								
R	12"	0(0)	15(21)	43(62)	86(123)							
U	16"		0(0)	30(43)	78(111)	116(185)						
N	18"		0(0)	24(34)	73(104)	112(161)	130(186)					
	20"		0(0)	16(23)	68(98)	109(156)	127(181)	143(205)				
	24"		0(0)	1(2)	58(83)	102(145)	120(172)	128(197)	170(243)			
	30"		0(0)	0(0)	42(61)	90(128)	110(157)	129(184)	163(233)	207(296)		
	36"			0(0)	25(35)	77(110)	99(141)	118(169)	155(221)	201(287)	241(344)	
	48"				0(0)	48(68)	73(104)	96(136)	136(194)	186(266)	229(328)	300(429)

TEE RESTRAINED JOINTS (150 PSI)
MINIMUM LINEAR FEET OF BRANCH PIPE TO BE RESTRAINED FROM JOINT TEE

PIPE SIZE	4"	6"	8"	12"	16"	18"	20"	24"	30"	36"	48"
CAPPED ENDS	–	–	–	–	–	–	–	–	–	–	–
90° BENDS	42(60)	59(85)	77(110)	108(155)	138(198)	153(218)	166(238)	194(277)	231(330)	265(379)	325(465)
45° BENDS	17(25)	25(35)	32(45)	45(64)	57(82)	63(90)	69(987)	80(115)	96(137)	110(157)	135(192)
22 1/2° BENDS	8(12)	12(17)	15(22)	22(31)	28(39)	30(43)	33(47)	39(55)	46(66)	53(75)	65(92)
11 1/4° BENDS	4(6)	6(8)	8(11)	11(15)	14(19)	15(21)	16(23)	19(27)	23(32)	26(37)	32(46)
VALVE	–	–	–	–	–	–	–	–	–	–	–

DUCTILE IRON RESTRAINED JOINTS
FOR VERTICALLY ORIENTED FITTINGS (150 PSI)
MINIMUM LINEAR FEET OF PIPE TO BE RESTRAINED JOINTS TEE AT BENDS VALVE OR END CAPS

PIPE SIZE	4"	6"	8"	12"	16"	18"	20"	24"	30"	36"	48"
CAPPED ENDS	42(60)	59(85)	77(110)	108(155)	138(198)	153(218)	166(238)	194(277)	231(330)	265(379)	325(465)
90° BENDS	20(24)	29(33)	37(43)	51(60)	65(76)	72(83)	78(90)	89(104)	104(122)	120(138)	144(167)
45° BENDS	8(10)	12(14)	15(18)	21(25)	27(31)	30(35)	32(37)	37(43)	44(52)	50(57)	60(69)
22 1/2° BENDS	4(5)	6(7)	7(9)	10(12)	13(15)	15(17)	16(18)	18(21)	21(24)	24(28)	29(33)
11 1/4° BENDS	2(2)	3(3)	4(4)	5(6)	7(8)	8(9)	8(9)	9(11)	11(12)	12(14)	14(16)
VALVE	35(50)	49(71)	64(92)	90(130)	115(165)	128(182)	139(198)	160(230)	193(275)	220(320)	325(465)

DUCTILE IRON RESTRAINED JOINTS
FOR HORIZONTAL FITTINGS (150 PSI)
MINIMUM LINEAR FEET OF PIPE TO BE RESTRAINED JOINTS TEE AT BENDS VALVE OR END CAPS

* NUMBER IN PARENTHESIS REPRESENTS LINEAL FEET OF RESTRAINT FOR POLY WRAP AND FOR PVC PIPE

CREATED JULY 2015
REVISED NOV. 2015
MAY 2016
JUNE 2017

RESTRAINED JOINT TABLES

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PASCO COUNTY UTILITIES

DETAIL G10

RESTRAINED JOINT NOTES

1. THE PROGRAM, "THRUST RESTRAINT" DISTRIBUTED BY THE DUCTILE IRON PIPE RESEARCH ASSOCIATION (DIPRA) WAS USED TO CALCULATE THE LENGTH OF RESTRAINED JOINTS BASED ON TYPE 3 STANDARD ANSI/AWWA C150/A21.50 LAYING CONDITIONS FOR DUCTILE IRON PIPE. SANDY/ SILTY SOIL 3.0 FT MIN. COVERAGE AND 150PSI OPERATING PRESSURE APPROPRIATE ADJUSTMENTS MUST BE MADE FOR DEVIATIONS FROM THESE ASSUMPTIONS.
2. SELECTED COMMON FILL FROM ORIGINAL EXCAVATION, SEE SPECIFICATIONS.
3. USE OF ALTERNATIVE TYPES OF PIPE BEDDING TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENGINEER.
4. FOR COMBINED BENDS FORMING OFFSETS, THE LENGTHS QUOTED SHALL BE DOUBLED AND PROVIDED EACH SIDE OF THE CENTROID OF THE OFFSET.
5. VALVES LOCATED NEAR BENDS OR TEES SHALL TAKE ACCOUNT OF ADDITIONAL PASSIVE SOIL RESISTANCE.
6. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION, DEWATER AS NECESSARY.
7. EXISTING CONCRETE / ASPHALT SURFACES AND BASE SHALL BE CUT SQUARE WITH CONCRETE SAW.
8. ALL FITTINGS AND VALVES SHALL BE MECHANICALLY RESTRAINED. IN ADDITION TO THE FITTING BEING RESTRAINED, THE MINIMUM LINEAR FEET TO BE RESTRAINED ON BOTH SIDES OF THE FITTING SHALL BE AS SHOWN IN THE TABLE UNLESS OTHERWISE NOTED. THE RESTRAINED JOINT LENGTH FOR DUCTILE IRON PIPE ARE AS SHOWN. APPROPRIATE ADJUSTMENTS MUST BE MADE FOR PIPE MATERIALS OTHER THAN DUCTILE IRON.
9. IF THE PIPE IS DEFLECTED, THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE 75% OF THE MANUFACTURERS RECOMMENDED DEFLECTION, FOR THE JOINT TYPE USED.
10. RESTRAINED JOINTS IN CARRIER PIPES (JACK AND BORE) SHALL NOT BE INCLUDED IN RESTRAINED LENGTHS.

* NUMBERS IN PARENTHESES REPRESENT LINEAL FEET OF RESTRAINT FOR POLY WRAPPED DIP AND FOR PVC PIPE.

CREATED JULY 2015
REVISED NOV. 2015
MAY 2016
JUNE 2017

RESTRAINED JOINT NOTES

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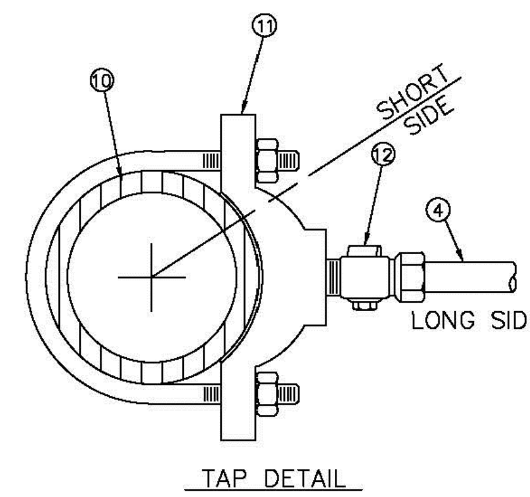
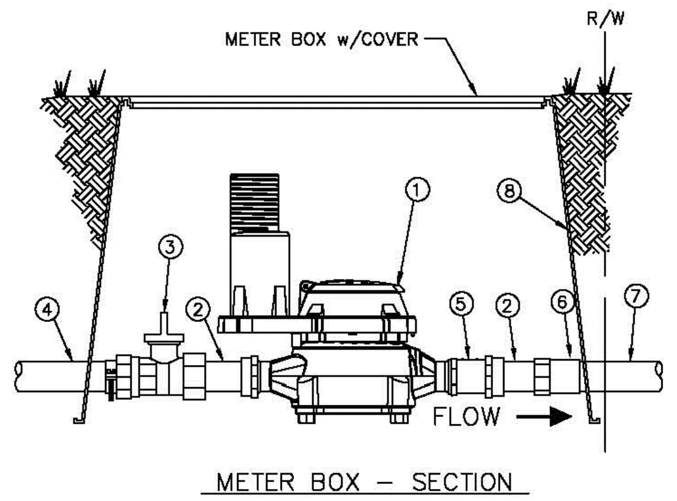
PASCO COUNTY UTILITIES

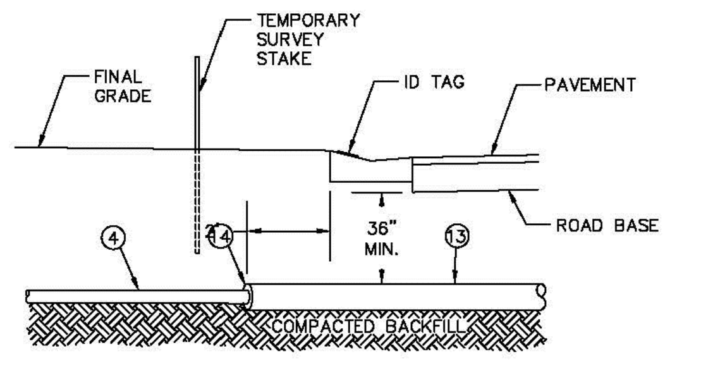
DETAIL G11



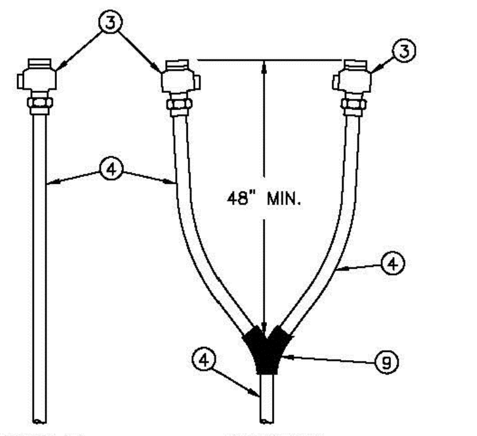
TAP DETAIL



METER BOX – SECTION



ROAD CROSSING – PROFILE



SINGLE DOUBLE

NOTES:
SERVICE LINES NEED TO BE LOCATED ON PROPERTY LINES AWAY FROM CONFLICT WITH SIDEWALKS AND DRIVEWAYS
SERVICE LINES TO BE STAKED 3'–0" FROM WYE BEND

SERVICE LINES – PLAN

MATERIALS

ITEM	QUANT.	DESCRIPTION
1	1	RECORDALL WATER METER w/ADE & ORION INTEGRAL PIT
		TRANSMITTER (5/8" x 3/4" RCDL C25 OR 1" RCDL M55)
2	2	METER TAIL, 3/4" OR 1" LONG,
		BRONZE MULTISIDED, w/RUBBER WASHER
3	1	CURB STOP BALL VALVE w/LOCK WING (FIP X COMP)
4	*	WATER TUBING, POLYETHYLENE BLUE
5	1	DUAL CHECK VALVE (FMTR X MMTR)
6	1	COUPLING, PVC (TYP)
7	*	PIPE, PVC (TYP.)
8	1	METER BOX w/READER COVER, NDS D1200 OR EQUAL
9	1	1" x 3/4" WYE BRANCH (COMP. x COMP.)
10	*	PIPE, PVC (DR–18) OR D.I.P.
11	1	1" TAPPING SADDLE, DOUBLE STRAP, F.I.P., S.S.
12	1	1" CORPORATION (M.I.P. x COMP.)
13	*	2" CASING, PVC OR HDPE
14	*	SEALER, RAM–NEK

NOTES:
- A DUAL CHECK VALVE IS REQUIRED ON THE POTABLE SERVICE LINE WHEN THE CUSTOMER HAS REUSE AVAILABLE.
- METER BOX TO BE LOCATED OUTSIDE R.O.W. WITHIN UTILITY EASEMENT.
- TOP OF BOX TO BE AT FINISHED GRADE.
- ALL FITTINGS FOR POLYETHYLENE TUBING ARE BRASS COMPRESSION TYPE.
- POTABLE WATER METERS INCLUDE A GREY' REGISTER LID & SHROUD, SUPPLIED AND INSTALLED BY PCU.
- METER BOX & COVER ARE 'BLACK' FOR POTABLE APPLICATION, SUPPLIED AND INSTALLED BY PCU
- TUBING TO BE YARDLEY 3406 OR EQUAL 'BLUE'.
- SADDLES 2" – 3" TO BE BRASS FULL CIRCLE TYPE.
- SADDLES 4" AND LARGER TO BE D.I. DUAL STRAP TYPE.
- SADDLE MAY BE INSTALLED AT ANGLE (WITHIN 45° OF HORIZONTAL).
- POTABLE WATER SERVICES MUST NOT BE LOCATED IN REAR YARDS

W, RW

CREATED JAN 2014
REVISED AUG 2015
MAY 2016
FEB 2020

AMR METER
SERVICE INSTALLATION
5/8", 3/4" OR 1"

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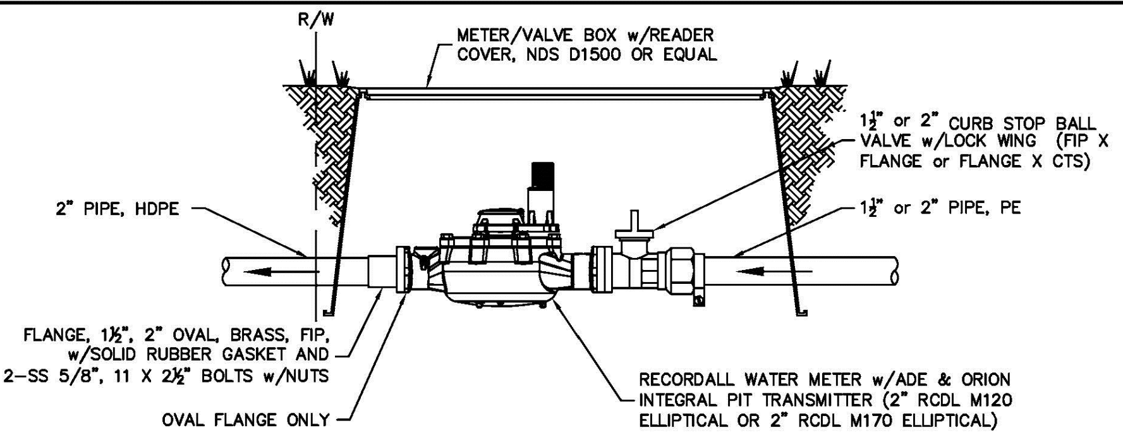
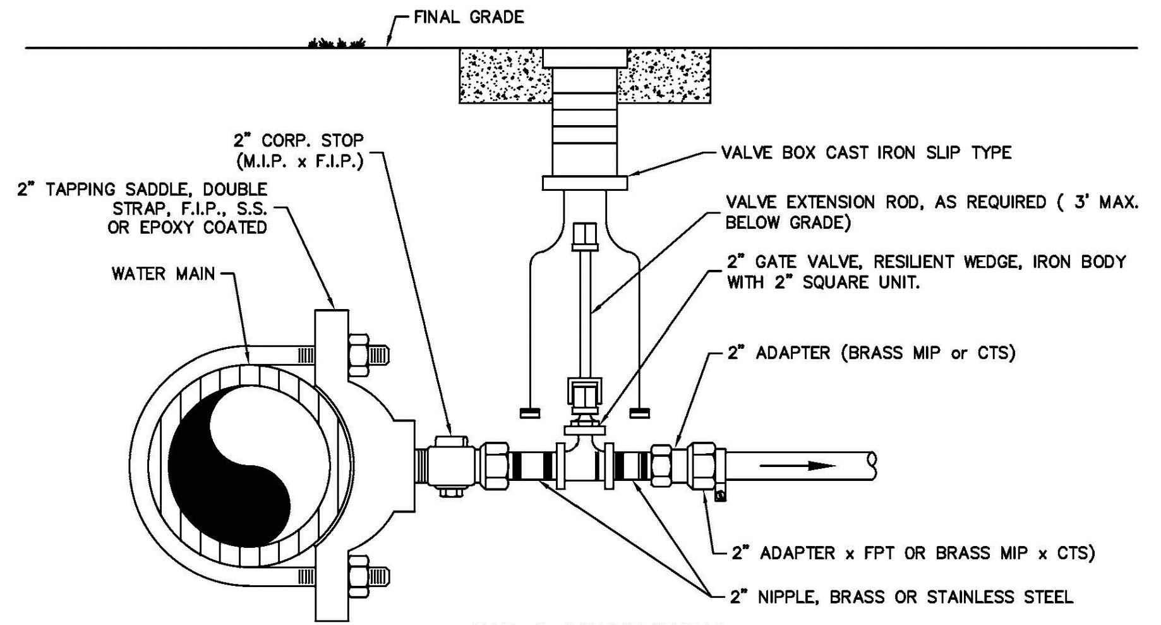
PASCO COUNTY UTILITIES

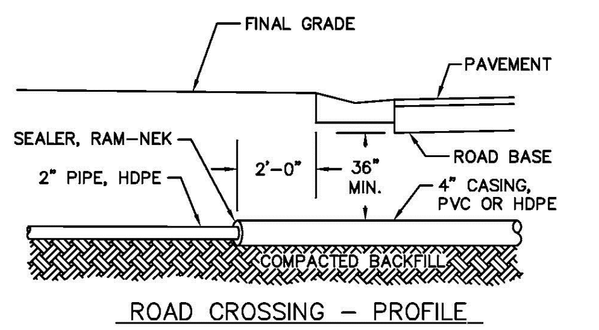
DETAIL G13


R/W
METER/VALVE BOX w/READER COVER, NDS D1500 OR EQUAL
1½" or 2" CURB STOP BALL VALVE w/LOCK WING (FIP X FLANGE or FLANGE X CTS)
2" PIPE, HDPE
1½" or 2" PIPE, PE
FLANGE, 1½", 2" OVAL, BRASS, FIP, w/SOLID RUBBER GASKET AND 2–SS 5/8", 11 X 2½" BOLTS w/NUTS
OVAL FLANGE ONLY
RECORDALL WATER METER w/ADE & ORION INTEGRAL PIT TRANSMITTER (2" RCDL M120 ELLIPTICAL OR 2" RCDL M170 ELLIPTICAL)

METER BOX – SECTION


FINAL GRADE
2" CORP. STOP (M.I.P. x F.I.P.)
VALVE BOX CAST IRON SLIP TYPE
2" TAPPING SADDLE, DOUBLE STRAP, F.I.P., S.S. OR EPOXY COATED
VALVE EXTENSION ROD, AS REQUIRED (3' MAX. BELOW GRADE)
WATER MAIN
2" GATE VALVE, RESILIENT WEDGE, IRON BODY WITH 2" SQUARE UNIT.
2" ADAPTER (BRASS MIP or CTS)
2" ADAPTER x FPT OR BRASS MIP x CTS)
2" NIPPLE, BRASS OR STAINLESS STEEL

TAP & VALVE DETAIL



ROAD CROSSING – PROFILE

NOTES:
- ALL COMMERCIAL METERS 1½" TO 2" SHALL BE RPZ PROTECTED
- AN RPZ BFP IS REQUIRED ON POTABLE SERVICE SIDE (COMMERCIAL & RESIDENTIAL) WHEN CUSTOMER HAS REUSE AVAILABLE.
- METER BOX TO BE LOCATED OUTSIDE R.O.W. WITHIN UTILITY EASEMENT.
- TOP OF BOX TO BE AT FINISHED GRADE.
- POTABLE WATER METERS INCLUDE A 'BLACK' REGISTER LID & SHROUD SUPPLIED AND INSTALLED BY PCU.
- METER/VALVE BOX & COVER ARE 'BLACK' FOR POTABLE APPLICATION, SUPPLIED AND INSTALLED BY PCU.
- TUBING TO BE YARDLEY PIPE 3406 OR EQUAL.
- SADDLES 2" – 3" TO BE BRASS FULL CIRCLE TYPE.
- SADDLES 4" AND LARGER TO BE DUCTILE IRON DUAL STRAP TYPE.

CREATED FEB 2003
REVISED JAN 2014
AUG 2015
JAN 2020

AMR METER
SERVICE INSTALLATION
1–1/2" or 2"

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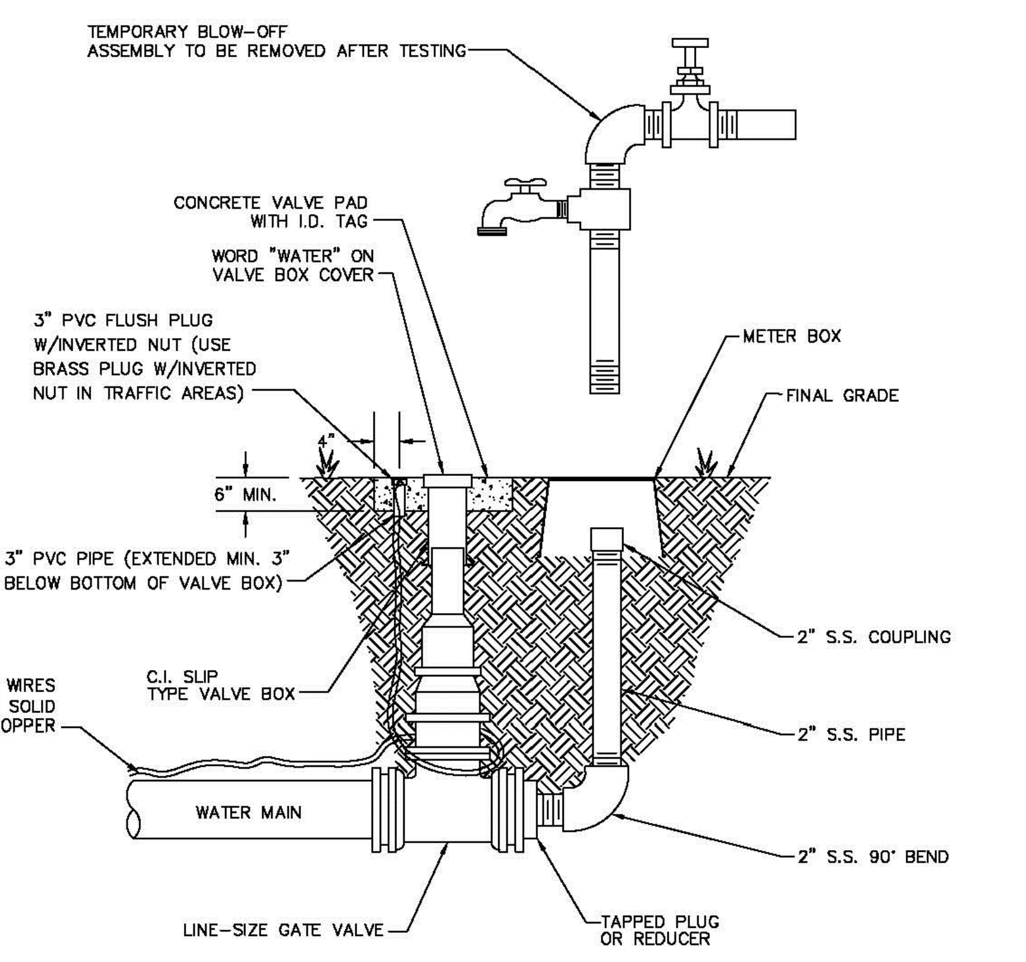
PASCO COUNTY UTILITIES

DETAIL G14


TEMPORARY BLOW–OFF ASSEMBLY TO BE REMOVED AFTER TESTING
CONCRETE VALVE PAD WITH I.D. TAG
WORD "WATER" ON VALVE BOX COVER
3" PVC FLUSH PLUG W/INVERTED NUT (USE BRASS PLUG W/INVERTED NUT IN TRAFFIC AREAS)
METER BOX
FINAL GRADE
4"
6" MIN.
3" PVC PIPE (EXTENDED MIN. 3" BELOW BOTTOM OF VALVE BOX)
2" S.S. COUPLING
TRACER WIRES (2) #10 SOLID COPPER
C.I. SLIP TYPE VALVE BOX
2" S.S. PIPE
WATER MAIN
2" S.S. 90° BEND
LINE–SIZE GATE VALVE
TAPPED PLUG OR REDUCER

NOTES:
- MECHANICAL JOINTS/UNDERGROUND PIPING SHALL BE RESTRAINED AS SPECIFIED IN JOINT RESTRAINT TABLE (DETAIL G10).
- VALVE EXTENSION ROD SHALL BE UTILIZED, AS NECESSARY, SO THAT VALVE OPERATING NUT IS A MAXIMUM OF 3' BELOW GRADE.
- END OF LINE SAME SIZE VALVE.
- TEMPORARY PORTION OF ASSEMBLY MAY HAVE GALVANIZED FITTINGS.

CREATED FEB 2003
REVISED JAN 2014
AUG 2015
FEB 2020

PERMANENT
BLOW–OFF DETAIL

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PASCO COUNTY UTILITIES

DETAIL G15

REVISIONS

REV	DATE	DESCRIPTION
1	---	--- ---
2	---	--- ---
3	---	--- ---
4	---	--- ---
5	---	--- ---
6	---	--- ---
7	---	--- ---
8	---	--- ---
9	---	--- ---
10	---	--- ---

BARDEZ
5048 POINTE EMERALD LANE; BOCA RATON, FL 33486
(0) 561-465-5949 | (e) nbarnett@bardezco.com

PROJECT DESCRIPTION
VILLA RICHEY
SITE ADDRESS: 4206/4210 MADISON ST.
NEW PORT RICHEY, FL
PROPERTY ID: 16-26-16-0010-06100-0010
PREPARED FOR: VILLA RICHEY, LLC

E-CERTIFICATION
NOEL A. BARNETT
No. 72006
Digitally signed by NOEL BARNETT
Date: 2024.03.26 16:43:46 -04'00'

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY NOEL A. BARNETT, PE ON THE DATE ADJACENT TO THE SEAL.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

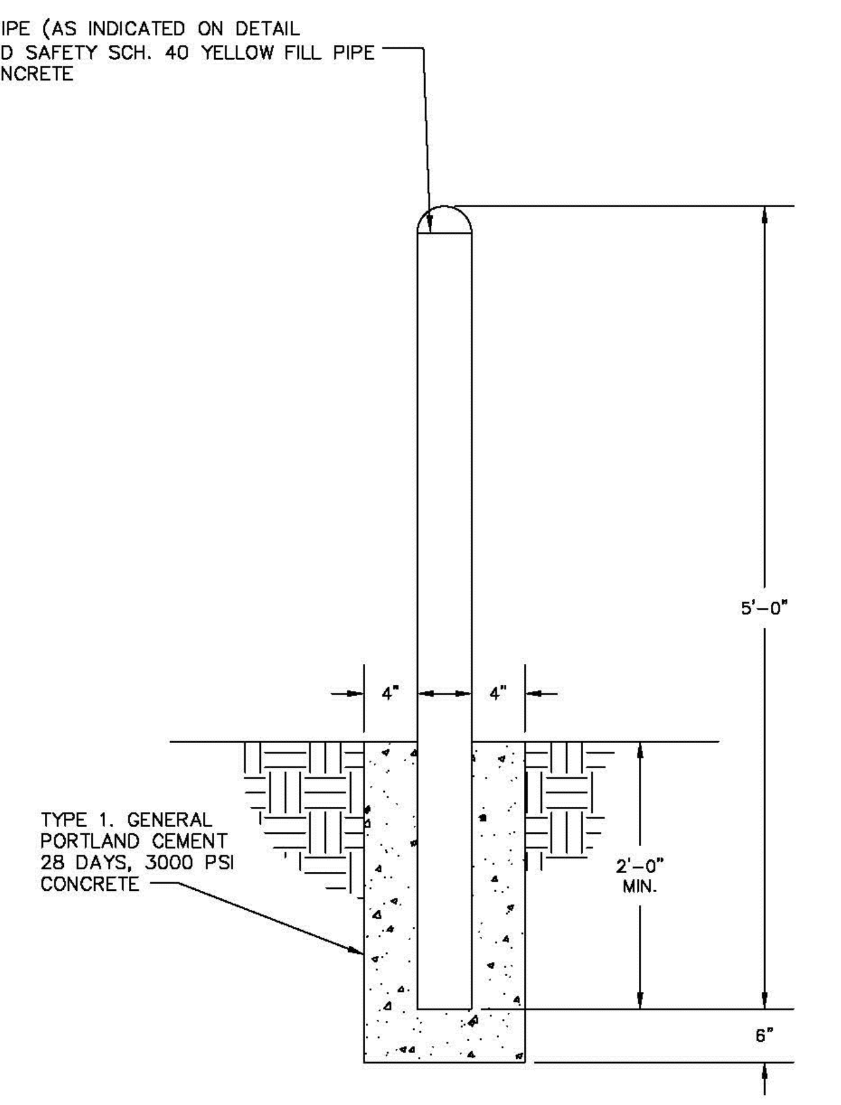
CERTIFICATION
DATE: 03-26-2024

NOEL BARNETT
PROFESSIONAL ENGINEER
FL LICENSE NO. 72006
FL BUSINESS C.A. NO.: 32223

SHEET TITLE
POTABLE WATER DETAILS

SHEET ID
C-6.1

These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.
PASCO AUTHORIZED SUB-2023-00


4" OR 6" STEEL PIPE (AS INDICATED ON DETAIL DRAWINGS) PAINTED SAFETY SCH. 40 YELLOW FILL PIPE WITH 3000 PSI CONCRETE
5'-0"
4"
4"
TYPE 1. GENERAL PORTLAND CEMENT 28 DAYS, 3000 PSI CONCRETE
2'-0" MIN.
6"

NOTE:
IF THE METER ASSEMBLY IS LOCATED WITHIN A TRAFFIC / VEHICLE AREA (PARKING LOT, DRIVEWAY, OR WITHIN 15 FEET OF EDGE OF PAVEMENT OR BACK OF CURB), ABOVE GROUND METERS UP TO 2 INCHES SHALL HAVE A MINIMUM OF FOUR TRAFFIC BOLLARD PROTECTION POSTS AND FOR ABOVE GROUND METERS 3 INCHES AND LARGER A MINIMUM OF 6 TRAFFIC BOLLARDS ARE REQUIRED.

CREATED AUG 2015
REVISED NOV. 2015
MAY 2016
AUG 2019

BOLLARD POST DETAIL

PASCO COUNTY UTILITIES

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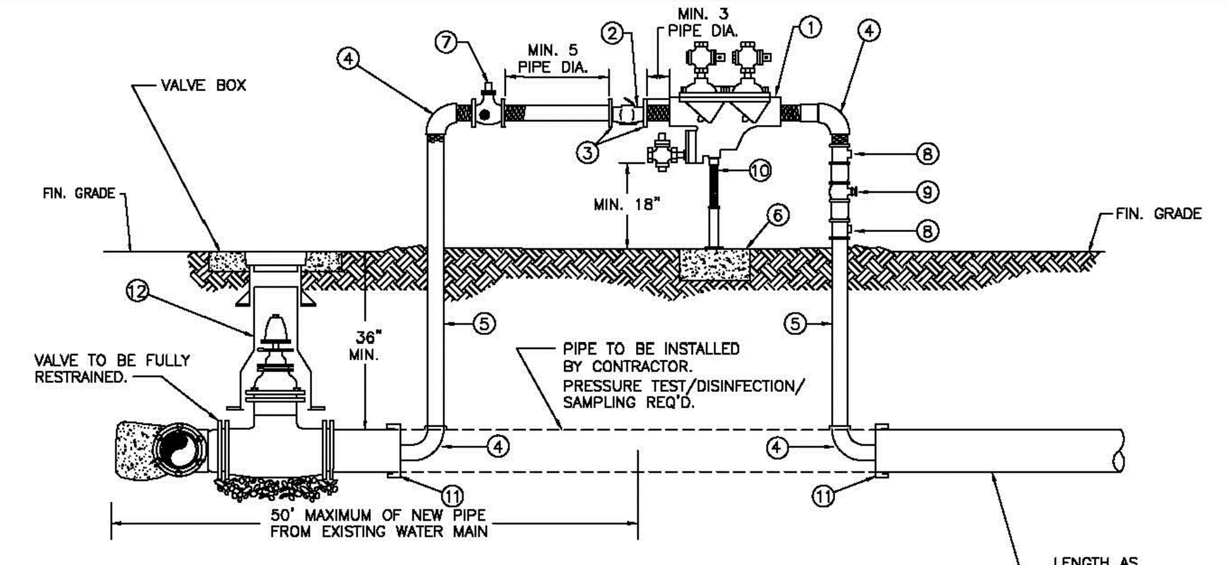
DETAIL G18


MIN. 3 PIPE DIA.
MIN. 5 PIPE DIA.
VALVE BOX
FIN. GRADE
FIN. GRADE
MIN. 18"
36" MIN.
VALVE TO BE FULLY RESTRAINED.
PIPE TO BE INSTALLED BY CONTRACTOR. PRESSURE TEST/DISINFECTION/ SAMPLING REQ'D.
50' MAXIMUM OF NEW PIPE FROM EXISTING WATER MAIN
LENGTH AS REQUIRED TO MEET NEAREST VALVE
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪
⑫

MATERIALS		
ITEM	QUANT.	DESCRIPTION
1	1	2" BACKFLOW PREVENTER ASSEMBLY, REDUCED PRESSURE ZONE
2	1	2" METER FURNISHED BY PASCO COUNTY UTILITIES
3	2	BRASS-METER FLANGES OR ADAPTORS
4	2	2" ELBOWS – BRASS OR S.S. 90° THREADED *
5	2	2" RISER – BRASS OR S.S. *
6	*	CONCRETE SLAB
7	1	2" VALVE – LOCK-WING OVAL FLANGED BALL VALVE (BRASS OR SS)
8	2	2" TEE/ VALVES – BRASS OR S.S. *
9	1	2" GATE VALVE – BRASS OR S.S. *
10	1	PIPE STAND (SUPPORT)
11	2	M.J. CAP WITH 2" TAP, 90°, THREADED, BEND
12	2	GATE VALVE AND BOX

* BECAUSE ASSEMBLY IS TEMPORARY, PASCO COUNTY WILL ALLOW GALVANIZED FITTINGS AS AN ALTERNATIVE.

NOTE:
- CONTRACTOR/CUSTOMER SHALL APPLY AT PASCO COUNTY UTILITIES CUSTOMER SERVICE (727-847-8131) FOR TEMPORARY WATER SERVICE AT LEAST THREE DAYS PRIOR TO REQUIRED SERVICE DATE.
- THE METER WILL BE FURNISHED, INSTALLED AND INITIAL READING TAKEN BY PASCO COUNTY UTILITIES. ALL FITTINGS, PIPING, VALVES AND MATERIALS INCLUDING THE PASCO COUNTY APPROVED REDUCED PRESSURE BACKFLOW PREVENTION DEVICE SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR/CUSTOMER.
- CONTRACTOR/CUSTOMER FURNISHED REDUCED PRESSURE BACKFLOW PREVENTION DEVICE MUST BE INSTALLED BEFORE THE METER IS INSTALLED BY PASCO COUNTY UTILITIES. THE APPROVED BACKFLOW PREVENTION DEVICE SHALL BE TESTED AND CERTIFIED BY CONTRACTOR. UTILITIES CERTIFIED BACKFLOW PREVENTION TECHNICIAN AT TIME OF METER INSTALLATION.
- CONTRACTOR/CUSTOMER SHALL PROTECT THE JUMPER/METER ASSEMBLY FROM DAMAGE.
- CONTRACTOR/CUSTOMER IS RESPONSIBLE FOR BACTERIOLOGICAL TESTING AFTER CONNECTION OF TEMPORARY WATER SERVICE.
- TEMPORARY CONSTRUCTION JUMPER/METER ASSEMBLY SHALL NOT BE REMOVED UNTIL SYSTEM IS ACCEPTED BY PASCO COUNTY UTILITIES.
- WHEN THE NEW SYSTEM IS ACCEPTED AND THE FINAL METER READING TAKEN BY PASCO COUNTY, THE TEMPORARY CONSTRUCTION JUMPER/METER ASSEMBLY MUST BE COMPLETELY REMOVED FROM M.J CAP TO M.J. CAP AND A NEW WATER MAIN IS TO BE CHLORINATED AND INSTALLED COMPLETING THE FINAL CONNECTION.
- BY APPLYING FOR SERVICE, CONTRACTOR/CUSTOMER AGREES TO TAKE WATER SERVICE FROM PASCO COUNTY UTILITIES IN ACCORDANCE WITH THE APPROPRIATE RATE SCHEDULE AND IN ACCORDANCE WITH PASCO COUNTY UTILITIES RULES AND REGULATION.
- IF STAINLESS STEEL IS USED, CONTRACTOR IS RESPONSIBLE TO PROVIDE TRANSITION FITTINGS AND/OR DIELECTRIC UNIONS AS APPROPRIATE WHERE CHANGING FROM BRASS TO S.S.

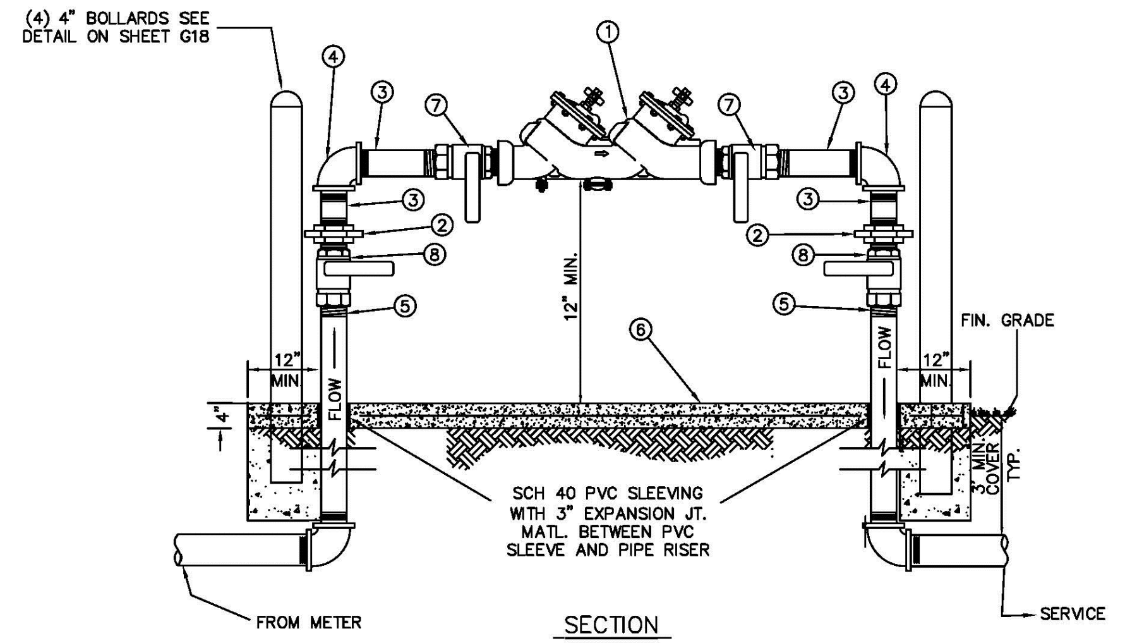
CREATED FEB 2003
REVISED JAN 2014
MAY 2016
JUNE 2019

TEMPORARY CONSTRUCTION WATER SERVICE
(JUMPER METER)

PASCO COUNTY UTILITIES

PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL

DETAIL W1


(4) 4" BOLLARDS SEE DETAIL ON SHEET G18
12" MIN.
FIN. GRADE
12" MIN.
12" MIN.
4"
FLOW
FLOW
3' MIN. COVER TYP.
SCH 40 PVC SLEEVING WITH 3" EXPANSION JT. MATL. BETWEEN PVC SLEEVE AND PIPE RISER
FROM METER
SERVICE
①
②
③
④
⑤
⑥
⑦
⑧

SECTION

MATERIALS		
ITEM	QUANT.	DESCRIPTION
1	1	BACKFLOW PREVENTER ASSEMBLY, DOUBLE CHECK OR REDUCED PRESSURE-BRASS
2	2	UNIONS – BRASS
3	4	NIPPLES – BRASS
4	2	ELBOWS – BRASS 90°
5	2	RISER – S.S.
6	*	CONCRETE SLAB
7	2	BALL VALVES – BRASS (PROVIDED WITH BFP ASS'Y)
8	2	BALL VALVES – BRASS (PROVIDED WITH BFP ASS'Y) (OPTIONAL)

NOTE:
- FIELD ADJUST AND CUT ITEM 5 TO THE PROPER LENGTH.
- BFP DEVICE TO BE INSTALLED LEVEL AND PLUMB
- MINIMUM CLEARANCE OF 24" TO BE MAINTAINED AROUND DEVICE FOR TESTING.
- ENTIRE ASSEMBLY TO BE PAINTED SAFETY BLUE.
- CONCRETE SLAB TO EXTEND 12" MIN. AROUND ENTIRE BFP ASSEMBLY.
- DEVICE MUST BE LISTED WITH THE UNIVERSITY OF SOUTHERN CALIFORNIA FOUNDATION FOR CROSS CONNECTION CONTROL AND HYDRAULIC RESEARCH.
- JOINTS BETWEEN DIFFERENT PIPING MATERIALS SHALL BE MADE WITH A MECHANICAL JOINT OF THE COMPRESSION OR MECHANICAL-SEALING TYPE, OR AS PERMITTED IN SECTION 605.24.1, 605.24.2 AND 605.24.3. CONNECTORS OR ADAPTERS SHALL HAVE ELECTROMETRIC SEAL CONFORMING TO ASTM F477.
- JOINTS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.
- CONTRACTOR SHALL TEST AND CERTIFY BACKFLOW PREVENTION DEVICE.
- IF STAINLESS STEEL IS USED, CONTRACTOR IS RESPONSIBLE TO PROVIDE TRANSITION FITTINGS AND/OR DIELECTRIC UNIONS AS APPROPRAITE WHERE CHANGING FROM BRASS TO S.S..

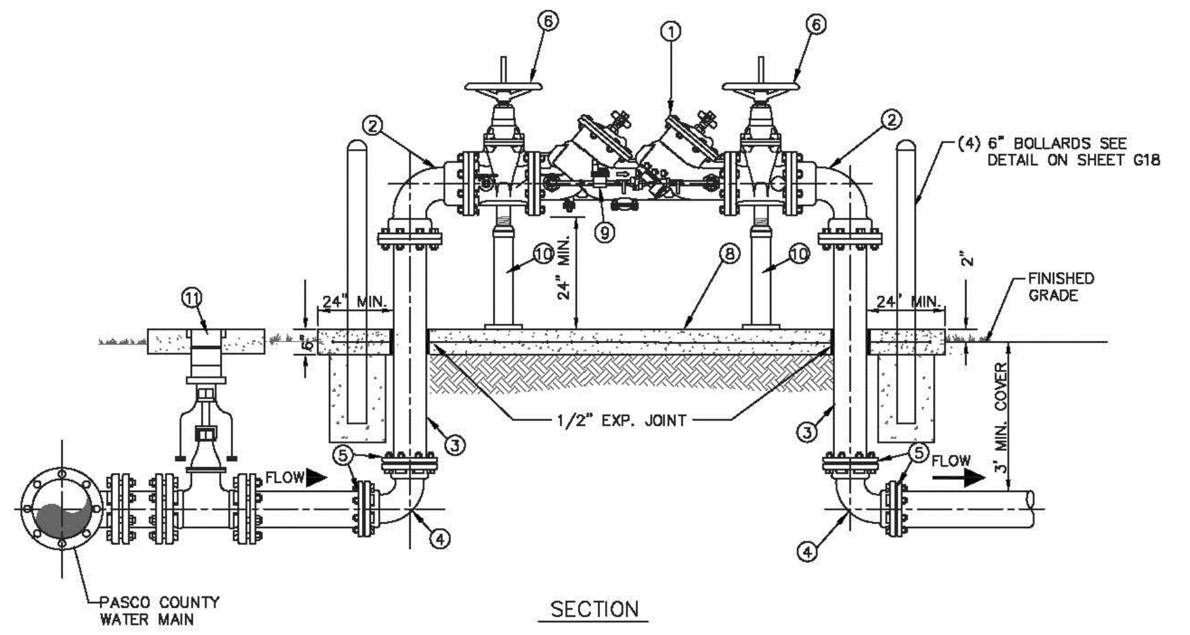
CREATED FEB 2003
REVISED JAN 2014
MAY 2015
FEB 2020

BACKFLOW PREVENTER – SINGLE SERVICE
DOUBLE CHECK VALVE IRRIGATION USE ONLY
(3/4", 1", 1-1/2", 2")

PASCO COUNTY UTILITIES

PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL

DETAIL W5



SECTION

MATERIALS		
ITEM	QUANT.	DESCRIPTION
1	1	DOUBLE CHECK WITH DETECTOR ASSEMBLY
2	2	BEND, 90° FLANGE x FLANGE
3	2	SPOOL PIECE FLG. x PE. D.I.P.
4	2	BEND, 90° M.J. x M.J.
5	4	RESTRAINED JOINT MJ (MEGALUG OR EQUAL)
6	2	VALVE, GATE FLG. x FLG. RESILIENT WEDGE O.S. & Y.
7	2	SUPPORT (AS NEEDED)
8	1	CONCRETE SLAB (6" THICK – 42" WIDE MIN.)
9	1	AMR (BADGER) ORION READING SYSTEM
10	2	ADJ. PIPE SUPPORTS – ANVIL FIG. 265 W/ 63T STANCHION & BASE PLATE
11	1	ISOLATION VALVE AND VALVE BOX, SLIP TYPE AS PER PCU STANDARD DETAIL G-5 LOCATED AT BRANCH NEAREST TO COUNTY WATER MAIN.

NOTES:
- NO TIE RODS OR EYE BOLT RETAINERS PERMITTED ABOVE GROUND.
- B.F.P. ASSEMBLY TO BE INSTALLED LEVEL & PLUMB.
- MINIMUM CLEARANCE OF 36" TO BE MAINTAINED AROUND ENTIRE DEVICE FOR TESTING
- ENTIRE ASSEMBLY TO BE PAINTED SAFETY RED.
- DETECTOR BY-PASS ASSEMBLY TO BE FACTORY INSTALLED AND CERTIFIED
- ALL MECHANICAL JOINTS SHALL BE RESTRAINED WITH MEGALUGS OR APPROVED EQUAL
- ALL ABOVE GROUND PIPING SHALL BE FLANGED DUCTILE IRON PIPE CEMENT LINED (NO GALVANIZED OR PVC)
- PASCO COUNTY SHALL HAVE THE OPTION OF REQUIRING THE ENTIRE ASSEMBLY TO BE ENCLOSED IN 6' CHAIN LINK FENCE.
- BFP DEVICE MUST BE LISTED WITH THE UNIVERSITY OF SOUTHERN CALIFORNIA FOUNDATION FOR CROSS CONNECTION CONTROL AND HYDRAULIC RESEARCH.
- ALL METERING EQUIPMENT SHALL BE FULLY COMPATIBLE WITH PCU CURRENTLY EXISTING AUTOMATIC METER READING SYSTEM (AMR) ON WATER, REUSE AND SEWER METERS, AS APPLICABLE
- CONTRACTOR SHALL TEST AND CERTIFY BACKFLOW PREVENTION DEVICE.
- IF OTHER ASSEMBLIES ARE PROPOSED TO BE PLACED PARALLEL TO THIS BACKFLOW ASSEMBLY (I.E. METER ASSEMBLIES) THERE SHALL BE A MIN. OF 36" OF SEPARATION BETWEEN ASSEMBLIES, AS PER MEASURED FROM OUTSIDE TO OUTSIDE.

CREATED FEB 2003
REVISED JAN 2014
AUG 2015
AUG 2019

DOUBLE CHECK WITH DETECTOR ASSEMBLY
(3", 4", 6", 8", 12")

PASCO COUNTY UTILITIES

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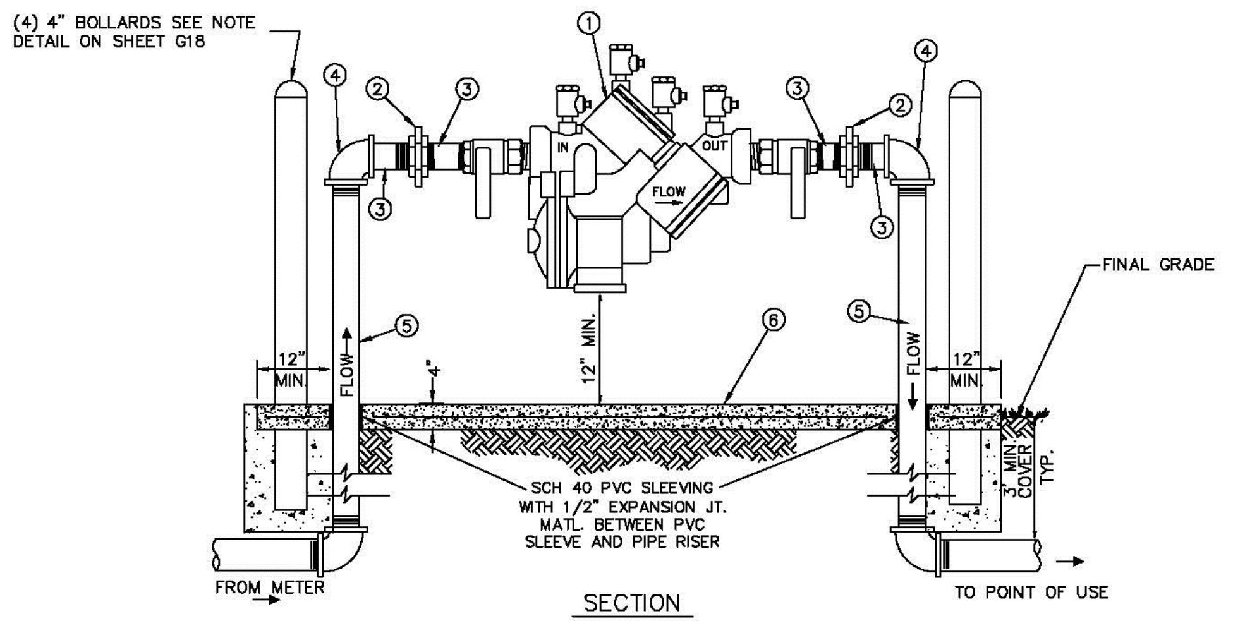
DETAIL W7


(4) 4" BOLLARDS SEE NOTE DETAIL ON SHEET G18
IN
OUT
FLOW
FINAL GRADE
12" MIN.
12" MIN.
12" MIN.
4"
FLOW
FLOW
3' MIN. COVER TYP.
SCH 40 PVC SLEEVING WITH 1/2" EXPANSION JT. MATL. BETWEEN PVC SLEEVE AND PIPE RISER
FROM METER
TO POINT OF USE
①
②
③
④
⑤
⑥

SECTION
NTS

MATERIALS		
ITEM	QUANT.	DESCRIPTION
1	1	BACKFLOW PREVENTER ASSEMBLY, REDUCED PRESSURE ZONE (RPZ) W/ 2 BALL VALVES-BRASS
2	2	UNIONS-BRASS OR S.S.
3	4	NIPPLES-BRASS OR S.S.
4	2	ELBOWS 90°-BRASS OR S.S.
5	2	RISER -BRASS OR S.S.
6	*	CONCRETE SLAB 4" THICK W/ 6"x6" 10/10 W.W.F. OR FIBERMESH REINFORCING

NOTES:
- MINIMUM CLEARANCE OF 12" TO BE MAINTAINED AROUND DEVICE FOR TESTING
- ENTIRE ASSEMBLY SHALL BE INSTALLED LEVEL AND PLUMB THEN TO BE PAINTED SAFETY BLUE.
- CONCRETE SLAB TO EXTEND 12" MIN. AROUND ENTIRE BFP ASSEMBLY.
- DEVICE MUST BE LISTED WITH THE UNIVERSITY OF SOUTHERN CALIFORNIA FOUNDATION FOR CROSS CONNECTION CONTROL AND HYDRAULIC RESEARCH.
- ALL MATERIALS SHALL BE N.S.F. APPROVED.
- CONTRACTOR SHALL TEST AND CERTIFY BACKFLOW PREVENTION DEVICE.
- IF STAINLESS STEEL IS USED, CONTRACTOR IS RESPONSIBLE TO PROVIDE TRANSITION FITTINGS AND/OR DIELECTRIC COUPLINGS AS APPROPRIATE WHERE CHANGING FROM BRASS TO S.S.

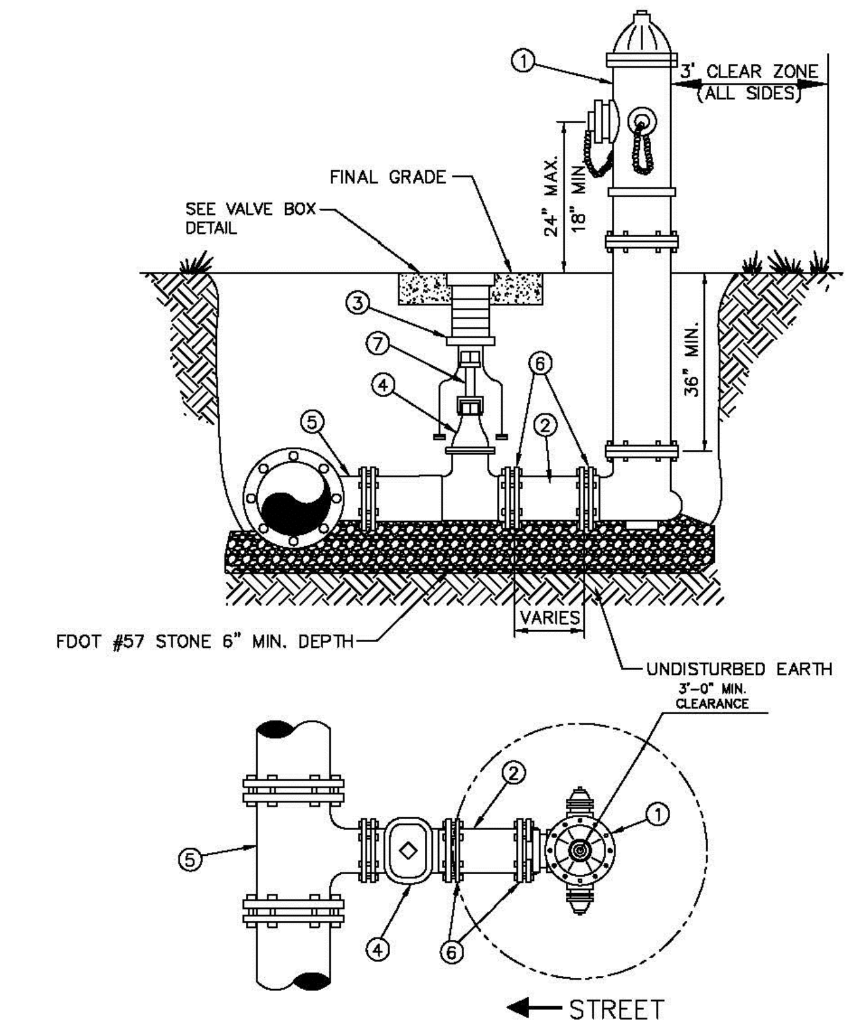
CREATED 02/24/03
REVISED AUG 2015
JULY 2019
AUG 2019

REDUCED PRESSURE BACKFLOW PREVENTER ASSY.
(SINGLE SERVICE: 3/4", 1", 1-1/2", 2")

PASCO COUNTY UTILITIES

PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL

DETAIL W8



PERPENDICULAR TO THE MAIN

MATERIALS		
ITEM	QUANT.	DESCRIPTION
1	1	FIRE HYDRANT (5 1/4" VALVE MIN.), PAINTED YELLOW
2	*	RESERVED
3	1	VALVE BOX, SLIP TYPE
4	1	6" VALVE, GATE, M.J. RESILIENT WEDGE, N.R.S.
5	1	ANCHOR TEE, M.J.
6	*	6" RESTRAINED JOINT M.J. (MEGALUG OR EQUAL)
7	*	VALVE EXTENSION ROD, AS NECESSARY (3' MAX. BELOW GRADE)
8	*	6" 90° BEND, D.I., RESTRAINED

NOTES:
1. MINIMUM CLEARANCE OF 18" FROM C/L OF STEAMER NOZZLE TO FINAL GRADE, TO BE ADJUSTED BY CONTRACTOR.
2. ADD REFLECTIVE PAVEMENT MARKER (RPM, BLUE/BLUE) IN CENTER OF LANE IMMEDIATELY ADJACENT TO HYDRANT.
3. A 3-FT CLEAR ZONE SURROUNDING THE HYDRANT SHALL BE FREE OF ANY TREES, SHRUBS, AND DRIVEWAYS.
4. HYDRANT CAPS SHALL BE COLOR CODED BASED ON FLOW RATES:
   - BELOW 500 GPM: RED
   - 500-1,000 GPM: ORANGE
   - 1,000-1,500 GPM: GREEN
   - ABOVE-1,500 GPM: BLUE
5. THE FOLLOWING FIRE HYDRANTS ARE ACCEPTABLE – AMERICAN FLOW B-84-B; KENNEDY K-81 OR EQUAL

CREATED FEB 2003
REVISED SEPT 2014
AUG 2015
AUG 2019

STANDARD FIRE HYDRANT
CONFIGURATION

PASCO COUNTY UTILITIES

PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL

DETAIL W13

REVISIONS

REV	DATE	DESCRIPTION
1	---	--- ---
2	---	--- ---
3	---	--- ---
4	---	--- ---
5	---	--- ---
6	---	--- ---
7	---	--- ---
8	---	--- ---
9	---	--- ---
10	---	--- ---

BARDEZ
5048 POINTE EMERALD LANE; BOCA RATON, FL 33486
(0) 561-465-5949 | (e) nbarnett@bardezco.com

PROJECT DESCRIPTION
VILLA RICHEY
SITE ADDRESS: 4206/4210 MADISON ST.
NEW PORT RICHEY, FL
PROPERTY ID: 16-26-16-0010-06100-0010
PREPARED FOR: VILLA RICHEY, LLC

E-CERTIFICATION
NOEL A. BARNETT
No. 72006

Digitally signed by NOEL BARNETT
Date: 2024.03.26 16:43:57 -04'00'

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY NOEL A. BARNETT, PE ON THE DATE ADJACENT TO THE SEAL.

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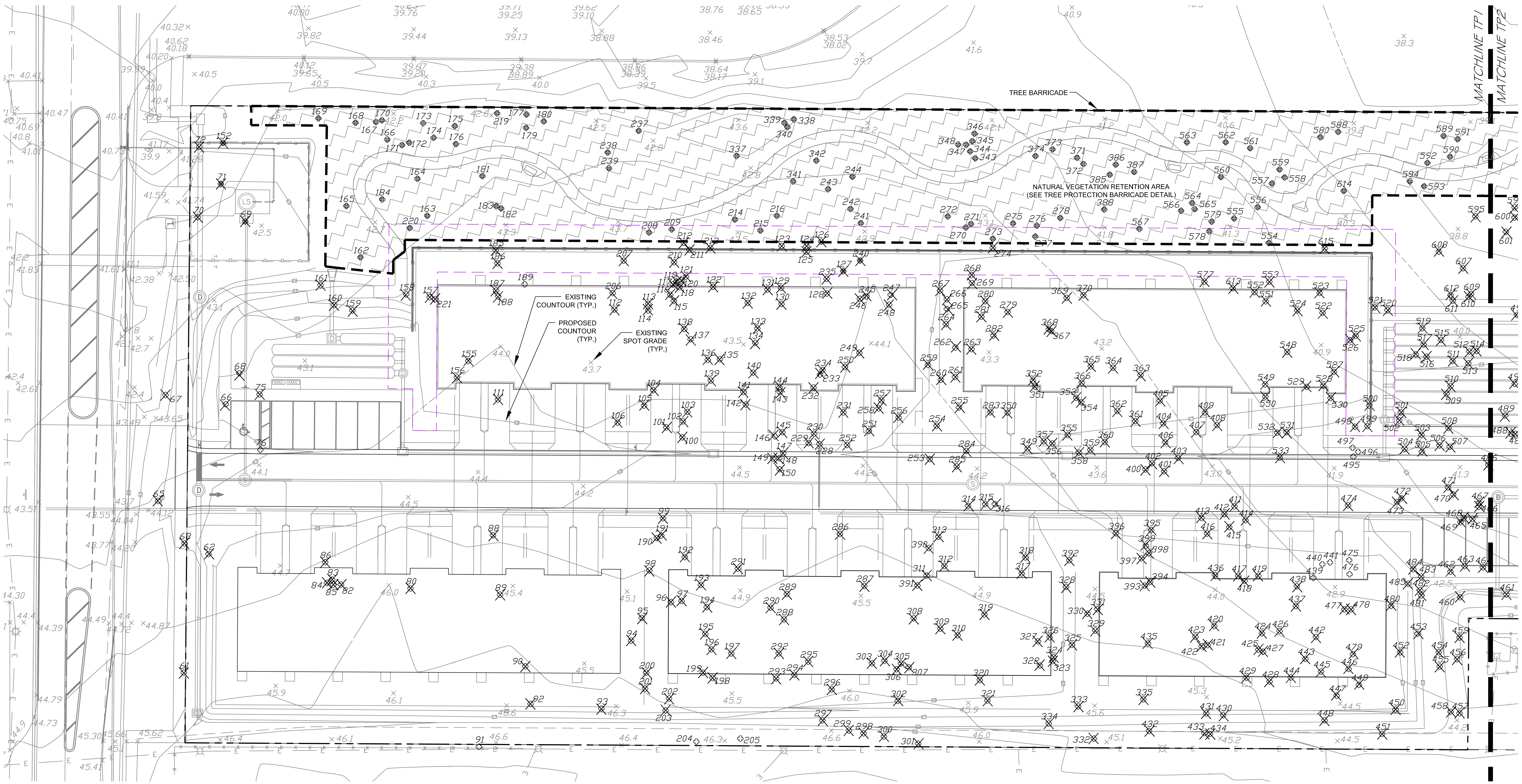
CERTIFICATION
DATE: 03-26-2024

NOEL BARNETT
PROFESSIONAL ENGINEER
FL LICENSE NO. 72006
FL BUSINESS C.A. NO.: 32223

SHEET TITLE
POTABLE
WATER
DETAILS

SHEET ID
C-6.2

These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.
AUTHORIZED
PASCO


TREE BARRICADE
NATURAL VEGETATION RETENTION AREA
(SEE TREE PROTECTION BARRICADE DETAIL)
EXISTING COUNTOUR (TYP.)
PROPOSED COUNTOUR (TYP.)
EXISTING SPOT GRADE (TYP.)
MATCHLINE TP1
MATCHLINE TP2

LEGEND

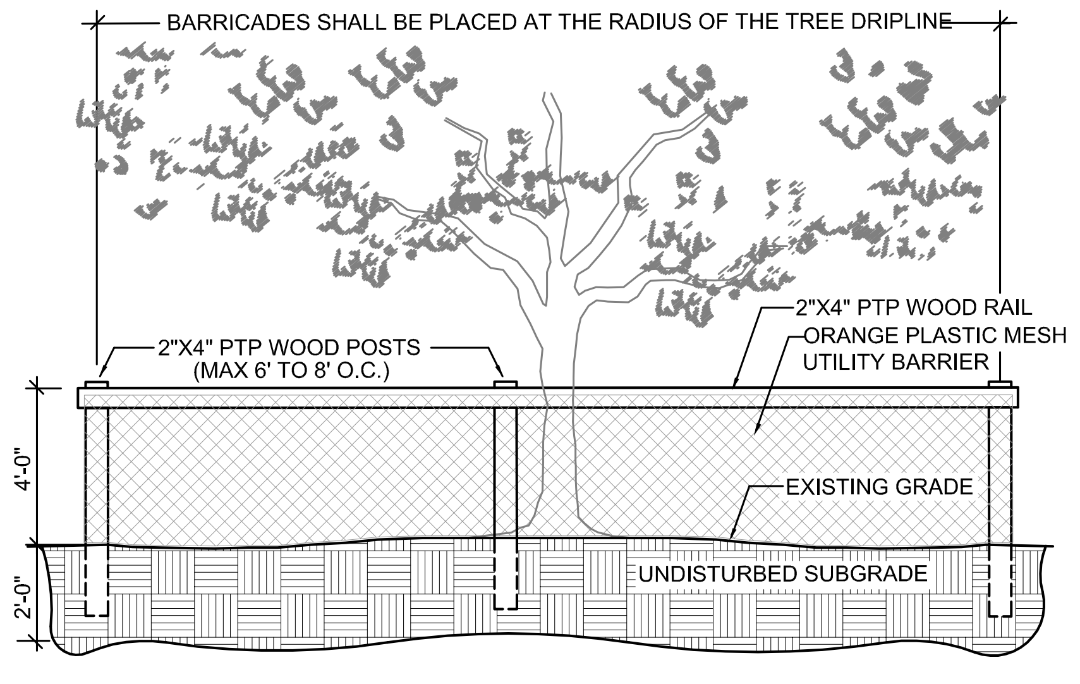
### ♧	EXISTING TREE TO REMAIN (SEE TREE PROTECTION BARRICADE DETAIL)
### ⊗	EXISTING TREE TO BE REMOVED
▨	NATURAL VEGETATION RETENTION AREA / TREE BARRICADE (SEE TREE PROTECTION BARRICADE DETAIL)

NOTE: SEE TREE DATA CHART FOR SPECIES AND DBH

TREES TO BE REPLACED

EXISTING TREE	TOTAL DBH	REPLACEMENT REQUIRED	SUB-TOTAL
LIVE OAK >10"	1,360"	100%	1,360"
OTHER >10"	1,256"	33.34%	419"
TOTAL REPLACEMENT CALIPER REQUIRED			1,779
TOTAL REPLACEMENT CALIPER PROVIDED ON LA PLAN			254
REMAINING REPLACEMENT CALIPER REQUIRED			1,525

NOTE: TREE MITIGATION FUND MONITARY CONTRIBUTION NOT TO EXCEED $500 / UNIT (73 UNITS x $500 = $36,500). §802.3.C.3.a


BARRICADES SHALL BE PLACED AT THE RADIUS OF THE TREE DRIPLINE
2"X4" PTP WOOD POSTS (MAX 6' TO 8' O.C.)
2"X4" PTP WOOD RAIL
ORANGE PLASTIC MESH UTILITY BARRIER
4'-0"
EXISTING GRADE
UNDISTURBED SUBGRADE
2'-0"

① TREE PROTECTION BARRICADE DETAIL

1. PROTECT DESIGNATED EXISTING TREES SCHEDULED TO REMAIN AGAINST: UNNECESSARY CUTTING, BREAKING, OR SKINNING OF ROOTS, SKINNING AND BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION OR EXCAVATION MATERIALS WITHIN DRIP-LINE, FOOT OR VEHICULAR TRAFFIC

2. ERECT TEMPORARY WOODEN BARRICADES BEFORE COMMENCEMENT OF ANY SITE CLEARING OR GRADING. FENCE TO BE 4' HIGH MINIMUM WITH 2"X4" POSTS AND ONE 2"X4" RAIL AT 4' ABOVE GRADE. POSTS SHALL BE SPACED NO MORE THAN 6' TO 8" ON CENTER AND SHALL BE DRIVEN INTO THE GROUND A MINIMUM OF 2'-0" DEEP OR MORE IN THE GROUND TO BE STABLE WITHOUT ADDITIONAL SUPPORT.

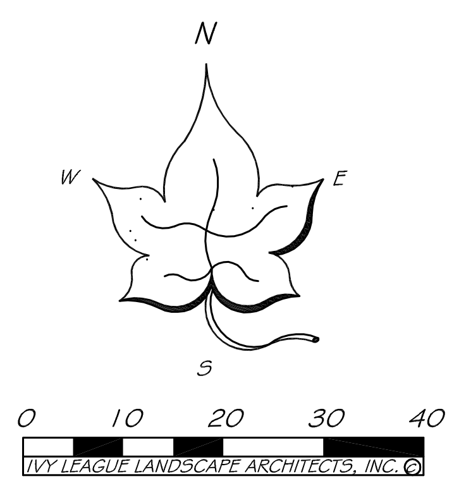
3. ALL FENCING SHOULD BE A MINIMUM CLEAR DISTANCE OF 6' FROM THE FACE OF ANY TREE. NOTHING SHALL BE PLACED INSIDE OF PROTECTIVE BARRICADES, INCLUDING BUT NOT LIMITED TO CONSTRUCTION MATERIAL, MACHINERY, CHEMICALS, OR TEMPORARY SOIL DEPOSITS.

4. NO GRADE CHANGES ARE TO BE MADE WITHIN THE BARRICADES WITHOUT PRIOR APPROVAL OF THE OWNER OR HIS DESIGNATED REPRESENTATIVE.

5. WHEN PAVING, EXCAVATION, OR HARDSCAPE MUST BE DONE WITHIN BARRICADES, BARRICADES SHELL BE MOVED BACK TO A SECONDARY LOCATION AT EDGE OF WORK. CONTRACTOR SHALL EXERCISE EXTRA CARE WHEN WORKING WITHIN BARRICADES TO INSURE THAT NO DAMAGE TO THE TREE OCCURS.

6. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE WATER TO EXISTING TREES AS NEEDED TO MAINTAIN THEIR HEALTH DURING CONSTRUCTION WORK.

SCALE: N.T.S.



SCALE : 1" = 20'
(AT 24" x 36" PRINT)

NICHOLAS F. CLARK
REGISTERED LANDSCAPE ARCHITECT

(386) 846-0901
4180 TREADWAY ROAD
NEW SMYRNA BEACH, FL 32168
WWW.IVYLEAGUELA.COM
LC26000349

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IVY LEAGUE LANDSCAPE ARCHITECTS INC
Dream Design Build Maintain

#	DATE	REVISIONS	BY
1.	10/19/22	REVISED PER SITE PLAN CHANGES & COUNTY COMMENTS	NC/DS
2.	04/21/23	REVISED PER SITE PLAN CHANGES & COUNTY COMMENTS	NC/DS
3.	10/09/23	REVISED PER SITE PLAN CHANGES & COUNTY COMMENTS	NC/DS
4.	02/21/24	REVISED PER SITE PLAN CHANGES & COUNTY COMMENTS	NC/DS

VILLA RICHEY

4210 MADISON STREET
PASCO COUNTY, FLORIDA

TREE PROTECTION PLAN AND DETAILS

PROJECT #:	4421060
ISSUE DATE:	03 / 04 / 2022
DESIGNED BY:	NFC / DS
DRAFTED BY:	NFC / DS
CHECKED BY:	NFC / DS
FILE NAME:	4421060LA

NICHOLAS F. CLARK
LA 6666933

Digitally signed by Nicholas F Clark
Date: 2024.02.21 13:28:35 -05'00'

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY NICHOLAS F. CLARK, RLA ON THE DATE ADJACENT TO THE SEAL.

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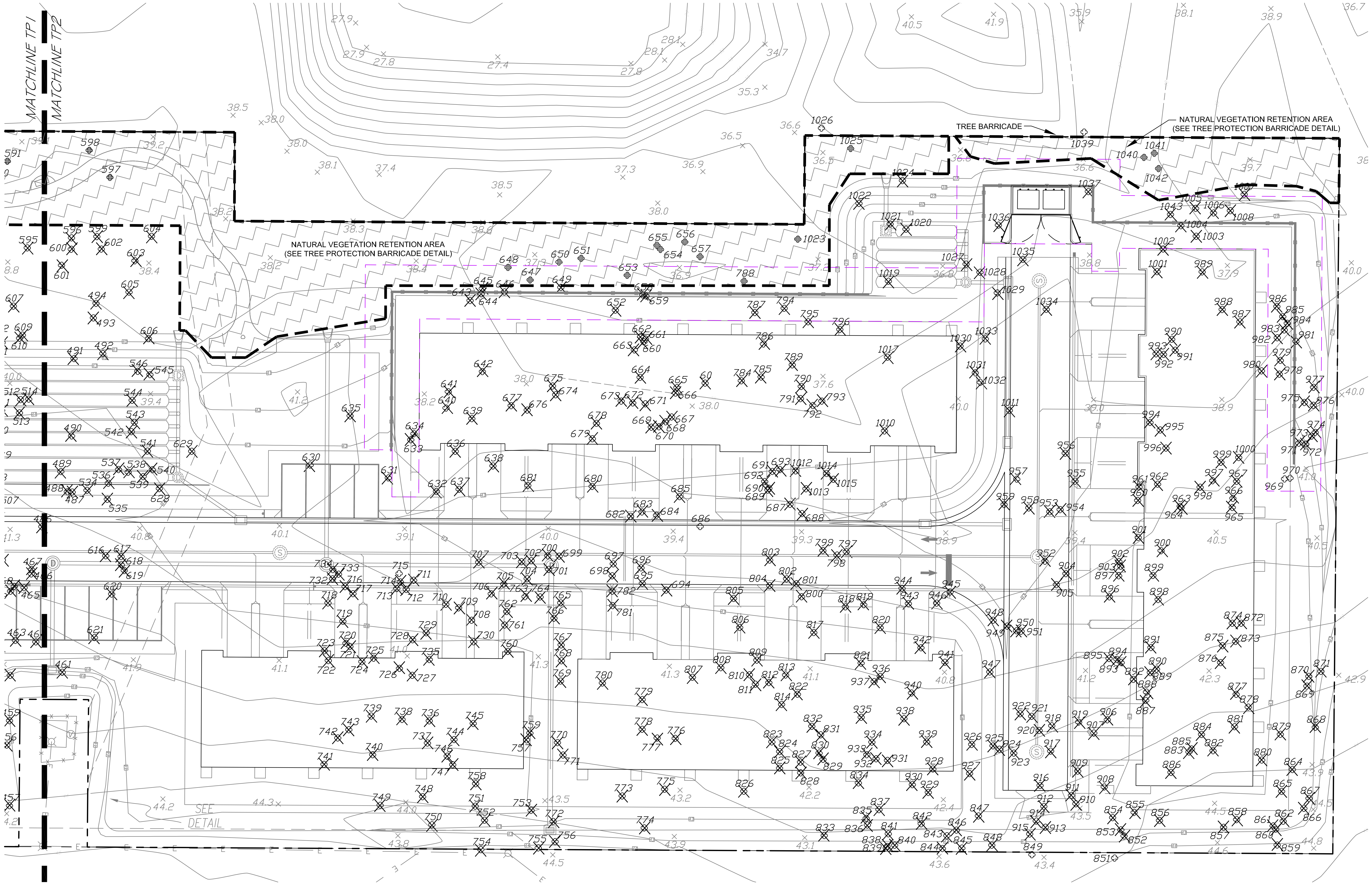
SHEET: TP1 of 3


MATCHLINE TP1
MATCHLINE TP2
NATURAL VEGETATION RETENTION AREA
(SEE TREE PROTECTION BARRICADE DETAIL)
TREE BARRICADE
NATURAL VEGETATION RETENTION AREA
(SEE TREE PROTECTION BARRICADE DETAIL)
SEE DETAIL

LEGEND

### ♧	EXISTING TREE TO REMAIN (SEE TREE PROTECTION BARRICADE DETAIL)
### ☒	EXISTING TREE TO BE REMOVED
⛶	NATURAL VEGETATION RETENTION AREA / TREE BARRICADE (SEE TREE PROTECTION BARRICADE DETAIL)

NOTE: SEE TREE DATA CHART FOR SPECIES AND DBH

TREES TO BE REPLACED

EXISTING TREE	TOTAL DBH	REPLACEMENT REQUIRED	SUB-TOTAL
LIVE OAK ≥10"	1,360"	100%	1,360"
OTHER ≥10"	1,256"	33.34%	419"
TOTAL REPLACEMENT CALIPER REQUIRED			1,779
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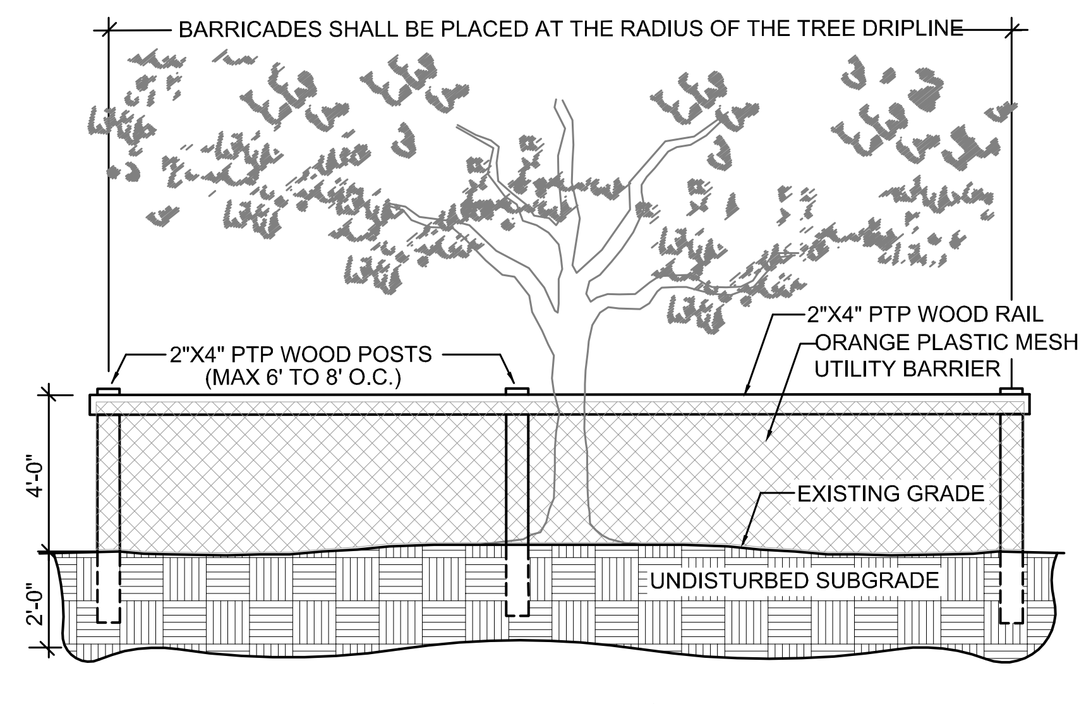
NOTE: TREE MITIGATION FUND MONITARY CONTRIBUTION NOT TO EXCEED $500 / UNIT (73 UNITS x $500 = $36,500). §802.3.C.3.a



1. PROTECT DESIGNATED EXISTING TREES SCHEDULED TO REMAIN AGAINST: UNNECESSARY CUTTING, BREAKING, OR SKINNING OF ROOTS, SKINNING AND BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION OR EXCAVATION MATERIALS WITHIN DRIP-LINE, FOOT OR VEHICULAR TRAFFIC

2. ERECT TEMPORARY WOODEN BARRICADES BEFORE COMMENCEMENT OF ANY SITE CLEARING OR GRADING. FENCE TO BE 4' HIGH MINIMUM WITH 2"X4" POSTS AND ONE 2"X4" RAIL AT 4' ABOVE GRADE. POSTS SHALL BE SPACED NO MORE THAN 6' TO 8" ON CENTER AND SHALL BE DRIVEN INTO THE GROUND A MINIMUM OF 2'-0" DEEP OR MORE IN THE GROUND TO BE STABLE WITHOUT ADDITIONAL SUPPORT.

3. ALL FENCING SHOULD BE A MINIMUM CLEAR DISTANCE OF 6' FROM THE FACE OF ANY TREE. NOTHING SHALL BE PLACED INSIDE OF PROTECTIVE BARRICADES, INCLUDING BUT NOT LIMITED TO CONSTRUCTION MATERIAL, MACHINERY, CHEMICALS, OR TEMPORARY SOIL DEPOSITS.

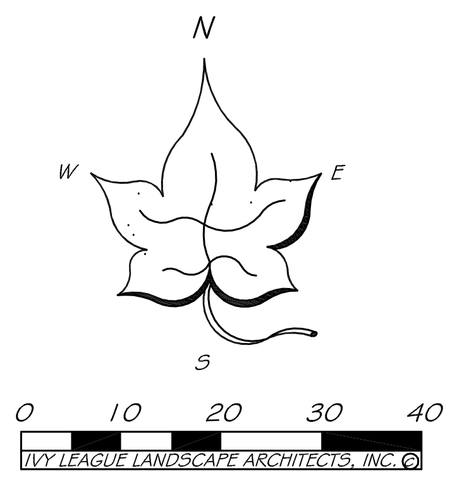
4. NO GRADE CHANGES ARE TO BE MADE WITHIN THE BARRICADES WITHOUT PRIOR APPROVAL OF THE OWNER OR HIS DESIGNATED REPRESENTATIVE.

5. WHEN PAVING, EXCAVATION, OR HARDSCAPE MUST BE DONE WITHIN BARRICADES, BARRICADES SHELL BE MOVED BACK TO A SECONDARY LOCATION AT EDGE OF WORK. CONTRACTOR SHALL EXERCISE EXTRA CARE WHEN WORKING WITHIN BARRICADES TO INSURE THAT NO DAMAGE TO THE TREE OCCURS.

6. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE WATER TO EXISTING TREES AS NEEDED TO MAINTAIN THEIR HEALTH DURING CONSTRUCTION WORK.

① TREE PROTECTION BARRICADE DETAIL

SCALE: N.T.S.



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IVY LEAGUE LANDSCAPE ARCHITECTS INC
Dream • Design • Build • Maintain

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2.	04/21/23	REVISED PER SITE PLAN CHANGES & COUNTY COMMENTS	NC/DS
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4.	02/21/24	REVISED PER SITE PLAN CHANGES & COUNTY COMMENTS	NC/DS

VILLA RICHEY

4210 MADISON STREET
PASCO COUNTY, FLORIDA

TREE PROTECTION PLAN AND DETAILS

PROJECT #:	4421060
ISSUE DATE:	03 / 04 / 2022
DESIGNED BY:	NFC / DS
DRAFTED BY:	NFC / DS
CHECKED BY:	NFC / DS
FILE NAME:	4421060LA

NICHOLAS F. CLARK
LA 6666933

Digitally signed by Nicholas F Clark
Date: 2024.02.21 13:29:18 -05'00'

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY NICHOLAS F. CLARK, RLA ON THE DATE ADJACENT TO THE SEAL.

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SHEET: TP2 of 3

TREE NO.	DBH	SPECIES
60	12"	PALM
61	9"/10"/11"	OAK
62	12"/9"	OAK
63	5"	UNKNOWN
65	32"	CEDAR
66	43"	CAMPHOR
67	25"	CEDAR
69	8"	PINE
70	12"	PINE
71	11"	PINE
72	6"	PINE
75	5"	OAK
76	7"	BLACK WALNUT
80	20"/16"	OAK
82	6"/6"	OAK
83	12"	PALM
84	19"	PALM
85	9"	PALM
86	6"/9"	CHINABERRY
88	55"	OAK
89	12"	CHINABERRY
90	30"	OAK
91	15"	PALM
92	20"	OAK
93	7"	EAR POD
94	48"	EAR POD
95	5"	OAK
96	8"	OAK
97	12"	EAR POD
98	36"	EAR POD
99	44"	EAR POD
100	10"	OAK
101	6"	LAUREL
102	5"	LAUREL
103	8"	LAUREL
104	9"	LAUREL
105	10"	OAK
106	6"	OAK
111	42"	OAK
112	6"	LAUREL
113	10"	PINE
114	9"/12"	OAK
115	10"	PINE
116	8"	CAMPHOR
117	7"	OAK
118	6"	CAMPHOR
119	7"	OAK
120	6"	CAMPHOR
121	9"	LAUREL
122	10"	OAK
123	13"	PINE
124	10"	PINE
125	6"	CAMPHOR
126	8"	CAMPHOR
127	12"	OAK
128	5"	LAUREL
129	6"	OAK
130	5"	CAMPHOR
131	10"	OAK
132	6"	LAUREL
133	6"	OAK
134	9"	CAMPHOR
135	12"	OAK
136	7"/8"	CAMPHOR
137	12"	PINE
138	9"	CAMPHOR
139	6"/7	CAMPHOR
140	8"	LAUREL
141	9"	CAMPHOR
142	5"	LAUREL
143	9"	PINE
144	8"	CAMPHOR
145	10"	OAK
146	11"	OAK
147	8"	OAK
148	14"	PINE
149	7"/10"	OAK
150	6"	OAK
152	9"	PINE
155	7"	LAUREL
156	7"/10"	CHINABERRY
157	12"	PINE
158	10"	OAK
159	6"	LAUREL
160	10"	PINE
161	5"	CAMPHOR
162	12"	PINE
163	7"	OAK
164	8"	LAUREL
165	6"	OAK
166	5"	OAK
167	5"	OAK
168	5"	LAUREL
169	10"	PINE
170	6"	LAUREL
171	5"	CAMPHOR
172	9"	PINE
173	5"	OAK
174	5"	LAUREL
175	13"	PINE
176	10"	PINE
177	16"	PINE
179	9"	PINE
180	6"	LAUREL
181	12"	PINE
182	12"	PINE
183	5"	LAUREL
184	5"	CAMPHOR
185	6"X2/8"	CAMPHOR
186	16"	OAK
187	9"/8"	OAK
188	8"	OAK
189	8"	OAK
190	5/7/22/32/12"	EAR POD
191	28"	EAR POD
192	20/17"	EAR POD
193	17"	EAR POD
194	8"	CAMPHOR
195	9/6"	CAMPHOR
196	6"	CAMPHOR
197	11"	LAUREL
198	8"	LAUREL
199	12"	LAUREL
200	14"	EAR POD
201	8/7/6"	PALM
202	6"	CAMPHOR
203	7"	CAMPHOR
204	18"	PALM

TREE NO.	DBH	SPECIES
205	20"	PALM
206	11"	LAUREL
207	5/5/5/7"	LAUREL
208	13"	OAK
209	7"	LAUREL
210	7"	OAK
211	8"	LAUREL
212	5"	LAUREL
213	7"	OAK
214	9/9/7/10"	LAUREL
215	5"	LAUREL
216	10"	OAK
219	5"	LAUREL
220	6"	LAUREL
221	5"	CAMPHOR
228	6/5"	LAUREL
229	7"	LAUREL
230	8/7"	LAUREL
231	11"	PINE
232	5/8/6"	LAUREL
233	6/9"	CAMPHOR
234	8/9"	CAMPHOR
235	5"	LAUREL
237	6"	LAUREL
238	6"	LAUREL
329	10"	OAK
240	8"	LAUREL
241	9"	OAK
242	11"	PINE
243	10"	PINE
244	11"	LAUREL
245	7"	LAUREL
246	7"	LAUREL
247	5"	OAK
248	6"	LAUREL
249	7"	LAUREL
250	11"	LAUREL
251	5/5/8/10"	LAUREL
252	6"	LAUREL
253	16"	OAK
254	13"	OAK
255	10"	OAK
256	6/6"	LAUREL
257	6"	LAUREL
258	7"	LAUREL
259	5"	LAUREL
260	7"	OAK
261	6"	LAUREL
262	5"	LAUREL
263	8"	LAUREL
264	11"	OAK
265	13"	PINE
266	8/5"	LAUREL
267	5"	LAUREL
268	6"	LAUREL
269	5"	LAUREL
270	5"	LAUREL
271	5"	LAUREL
272	8"	LAUREL
273	9"	PINE
274	9"	LAUREL
275	6"	LAUREL
276	12/5"	OAK
277	11"	OAK
278	5"	LAUREL
279	15"	OAK
280	6"	LAUREL
281	7"	OAK
282	6"	LAUREL
283	7"	LAUREL
284	10"	OAK
285	8"	LAUREL
286	9"	LAUREL
287	5"	LAUREL
288	8"	CAMPHOR
289	7"	LAUREL
290	9"	CAMPHOR
291	7"	EAR POD
292	8"	CAMPHOR
293	15"	PINE
294	7"	LAUREL
295	5"	LAUREL
296	6/8"	LAUREL
297	8"	CAMPHOR
298	5/6/8"	LAUREL
299	5"	LAUREL
300	16"	PALM
301	18"	PALM
302	5"	LAUREL
303	6"	LAUREL
304	7"	LAUREL
305	5"	LAUREL
306	8"	LAUREL
307	11"	PINE
308	8"	CAMPHOR
309	7"	LAUREL
310	7/7/8"	CAMPHOR
311	5"	LAUREL
312	9"	LAUREL
313	11/6"	LAUREL
314	6"	LAUREL
315	12"	PINE
316	8"	LAUREL
317	9"	LAUREL
318	6"	LAUREL
319	7"	LAUREL
320	8"	LAUREL
321	5"	LAUREL
322	19"	OAK
323	11"	PINE
324	6"	LAUREL
325	9"	OAK
326	6"	LAUREL
327	5"	OAK
328	5/6"	LAUREL
329	6"	CAMPHOR
330	8"	LAUREL
331	5"	LAUREL
332	18"	PALM
333	8"	LAUREL
334	7"	LAUREL
335	7"	OAK
337	5"	LAUREL
338	10"	OAK
339	8/9"	OAK
340	16"	OAK
341	23"	OAK
342	6"	LAUREL

TREE NO.	DBH	SPECIES
343	14"	OAK
344	8"	OAK
345	11"	PINE
346	5"	LAUREL
347	5"	LAUREL
348	9"	LAUREL
349	8"	LAUREL
350	5"	LAUREL
351	12"	PINE
352	8"	LAUREL
353	8"	CAMPHOR
354	10"	PINE
355	6"	LAUREL
356	6"	LAUREL
357	6"	LAUREL
358	14"	PINE
359	7"	LAUREL
360	5"	LAUREL
361	13"	OAK
362	5"	LAUREL
363	11"	LAUREL
364	7"	LAUREL
365	8"	LAUREL
366	6"	OAK
367	6"	CAMPHOR
368	5"	CAMPHOR
369	7"	LAUREL
370	6"	LAUREL
371	17"	OAK
372	10"	PINE
373	7"	LAUREL
374	7"	LAUREL
385	6"	LAUREL
386	7"	LAUREL
387	8"	LAUREL
388	5"	LAUREL
390	6"	LAUREL
391	5"	LAUREL
392	7"	LAUREL
393	10"	LAUREL
394	5"	LAUREL
395	7"	OAK
396	14"	OAK
397	6"	LAUREL
398	6"	LAUREL
399	5"	LAUREL
400	9"	LAUREL
401	6"	OAK
402	5"	LAUREL
403	6"	LAUREL
404	8"	LAUREL
405	5"	LAUREL
406	5"	LAUREL
407	9"	LAUREL
408	7"	LAUREL
409	9"	LAUREL
411	9"	LAUREL
412	7"	LAUREL
413	6"	LAUREL
414	6"	LAUREL
415	6"	LAUREL
416	9"	LAUREL
417	7"	LAUREL
418	9"	LAUREL
419	8"	LAUREL
420	12"	PALM
421	11"	OAK
422	6"	OAK
423	10"	LAUREL
424	5"	LAUREL
425	10"	PINE
426	5"	OAK
427	5"	LAUREL
428	8"	LAUREL
429	7"	LAUREL
430	6"	OAK
431	10/8/8/6"	LAUREL
432	15/17"	PALM
433	6"	LAUREL
434	8"	OAK
435	8"	OAK
436	7"	LAUREL
437	8"	OAK
438	7"	LAUREL
439	10"	OAK
440	7"	OAK
441	5"	LAUREL
442	7"	OAK
443	15"	OAK
444	8"	LAUREL
445	6"	OAK
446	11"	OAK
447	11"	OAK
448	11"	LAUREL
449	6"	LAUREL
450	16"	OAK
451	18"	PALM
452	11"	OAK
453	6"	LAUREL
454	6"	OAK
455	13"	OAK
456	6"	OAK
457	6/5"	OAK
458	5"	OAK
459	13"	OAK
460	13"	OAK
461	6"	OAK
462	6"	LAUREL
463	7"	OAK
464	16"	PALM
465	7"	OAK
466	7"	OAK
467	12"	OAK
468	13"	PINE
469	11"	OAK
470	9"	LAUREL
471	11"	PINE
472	6"	LAUREL
473	11"	PINE
474	8"	LAUREL
475	5"	OAK
476	10"	PINE
477	9"	OAK
478	5"	OAK
479	5"	LAUREL
480	8"	LAUREL
481	7"	OAK
482	12"	PINE

TREE NO.	DBH	SPECIES
483	9"	PINE
484	6"	OAK
485	7"	OAK
486	11"	PINE
487	5"	LAUREL
488	6"	OAK
489	9"	OAK
490	6"	OAK
491	15"	OAK
492	16"	PALM
493	9"	OAK
494	5"	OAK
495	9"	LAUREL
496	10"	OAK
497	9"	OAK
498	6"	LAUREL
499	7"	OAK
500	8"	OAK
501	9"	OAK
502	5"	OAK
503	6"	OAK
504	7"	LAUREL
505	8"	OAK
506	9"	LAUREL
507	12"	PINE
508	5"	LAUREL
509	11/15"	LAUREL
510	9"	PINE
511	12"	PINE
512	11"	OAK
513	9"	OAK
514	5"	OAK
515	9"	LAUREL
516	9"	LAUREL
517	13"	PINE
518	5"	OAK
519	7"	PINE
520	8"	LAUREL
521	12"	PINE/6"
522	8"	OAK
523	13"	LAUREL
524	9"	LAUREL
525	9"	LAUREL
526	7"	OAK
527	6"	LAUREL
528	5"	LAUREL
529	9"	LAUREL
530	6"	LAUREL
531	10"	CAMPHOR
532	8"	OAK
533	5/6"	LAUREL
534	7"	OAK
535	6"	OAK
536	13"	PALM
537	7"	OAK
538	6"	PINE
539	8"	OAK
540	10"	OAK
541	12/14"	OAK
542	7"	OAK
543	11"	OAK
544	7"	OAK
545	15"	OAK
546	11"	OAK
548	5"	LAUREL
549	6"	LAUREL
550	5"	OAK
551	8"	LAUREL
552	7"	LAUREL
553	5"	LAUREL
554	9"	LAUREL
555	7"	LAUREL
556	6"	LAUREL
557	6"	LAUREL
558	9"	LAUREL
559	6"	LAUREL
560	11"	LAUREL
561	10"	OAK
562	13"	PINE
563	9"/5"	OAK
564	6"	LAUREL
565	8"	LAUREL
566	5"	LAUREL
567	6"	LAUREL
577	6"	LAUREL
578	8"	LAUREL
579	7"	LAUREL
580	8"	LAUREL
588	8"	LAUREL
589	8"/7"	LAUREL
590	8"	LAUREL
591	11"	LAUREL
592	9"	LAUREL
593	11"	LAUREL
594	6"	LAUREL
595	11"	PALM
596	14"/8"	OAK
597	7"	OAK
598	5"	OAK
599	6"	OAK
600	15"	PINE
601	10"	OAK
602	9"	LAUREL
603	10"	OAK
604	6"	LAUREL
605	11"	OAK
606	7"	OAK
607	8"	OAK
608	5"	OAK
609	7"	LAUREL
610	9"	PINE
611	8"	PINE
612	5"	LAUREL
613	34"	LAUREL
614	33"	LAUREL
615	7"	OAK
616	6"	OAK
617	12"	OAK
618	11"/13"	OAK
619	10"	OAK
620	9"	OAK
621	10"/6"	OAK
628	6"	OAK
629	10"	LAUREL
630	12"	LAUREL
631	15"	OAK
632	9"	OAK
633	5"	LAUREL

TREE NO.	DBH	SPECIES
634	5"	LAUREL
635	9"	LAUREL
636	10"	OAK
637	12"	OAK
638	7"	OAK
639	7"	OAK
640	7"	OAK
641	10"	OAK
642	8"	OAK
643	12"	OAK
644	5"/7"	OAK
645	5"x2	LAUREL
646	6"	OAK
647	7"	OAK
648	7"	OAK
649	11"	OAK
650	10"	OAK
651	13"	OAK
652	12"	OAK
653	15"	PALM
654	14"	OAK
655	5"	OAK
656	7"	OAK
657	13"	PALM
658	6"	OAK
659	5"/6"	LAUREL
660	8"	OAK
661	5"	OAK
662	5"	OAK
663	6"	OAK
664	10"	OAK
665	9"	OAK
666	5"	OAK
667	10"	PALM
668	5"	OAK
669	8"	OAK
670	5"	OAK
671	6"	OAK
672	7"	OAK
673	11"	OAK
674	5"	OAK
675	5"	OAK
676	6"	OAK
677	15"	OAK
678	6"	OAK
679	8"	PINE
680	11"	PINE
681	6"	OAK
682	6"	OAK
683	15"	PINE
684	9"	OAK
685	9"	OAK
686	9"	OAK
687	9"	OAK
688	5"	OAK
689	5"	OAK
690	5"	OAK
691	7"	OAK
692	5"	OAK
693	6"	OAK
694	9"	OAK
695	8"	PINE
696	7"	OAK
697	10"	PINE
698	8"	PINE
699	7"	OAK
700	5"	OAK
701	7"	OAK
702	10"	PINE
703	8"	OAK
704	7"	OAK
705	8"	PINE
706	14"	PALM
707	11"	PINE
708	11"	PINE
709	5"	OAK
710	8"	OAK
711	10"	OAK
712	7"	OAK
713	6"	OAK
714	12"	OAK
715	7"	OAK
716	5"	OAK
717	5"	OAK
718	9"	OAK
719	5"	OAK
720	6"	OAK
721	10"	OAK
722	9"	OAK
723	8"	OAK
724	6"	OAK
725	7"	OAK
726	6"	OAK
727	9"	OAK
728	10"	OAK
729	5"	OAK
730	6"	OAK
732	11"	OAK
733	8"	OAK
734	8"	OAK
735	17"	PINE
736	10"	PINE
737	15"	PINE
738	8"	OAK
739	6"	OAK
740	8"	OAK
741	12"	OAK
742	5"	LAUREL
743	10"/12"	OAK
744	8"	PINE
745	13"	OAK
746	7"	OAK
747	9"	PINE
748	6"/8"	OAK
749	10"/11"	OAK
750	7"	OAK
751	11"	PINE
752	7"	OAK
753	15"	PINE
754	15"	PALM
755	17"x2	PALM
756	11"/12"/14"	OAK
757	9"	OAK
758	7"	OAK
759	14"	PINE
760	6"	OAK
761	11"	PINE
762	6"	OAK

TREE NO.	DBH	SPECIES
763	5"	OAK
764	6"	OAK
765	10"	PINE
766	8"	OAK
767	13"	PINE
768	12"	PINE
769	8"	PINE
770	8"	PINE
771	6"	OAK
772	9"	OAK
773	11"	OAK
774	8"	OAK
775	11"	PINE
776	8"	OAK
777	8"	LAUREL
778	12"	PINE
779	7"	PINE
780	5"	OAK
781	11"	PINE
782	9"	PINE
784	9?	OAK
785	9?	OAK
786	13?	PALM
787	13?	PALM
788	12?	OAK
789	7?	OAK
790	5?	OAK
791	7?	LAUREL
792	7?	LAUREL
793	7?	OAK
794	14?	PALM
795	9?10?	OAK
796	7?	LAUREL
797	7?	OAK
798	9?	OAK
799	8?	PINE
800	10?	OAK
801	9?	PINE
802	5?	OAK
803	9?	PINE
804	5?	OAK
805	6?	OAK
806	6?	OAK
807	9?	PINE
808	6?	OAK
809	9?	PINE
810	7?	PINE
811	9?	OAK
812	11?	PINE
813	6?	OAK
814	7?	OAK
817	10?	OAK
818	6?	OAK
819	9?	OAK
820	7?	OAK
821	5?	OAK
822	7?	OAK
823	9?	OAK
824	6?	OAK
825	8?	OAK
826	10?	PINE
827	10?	OAK
828	7?	OAK
829	7?	OAK
830	5?	OAK
831	5?	LAUREL
832	6?	OAK
833	7?	OAK
834	7?	OAK
835	11?	PINE
836	5?	LAUREL
837	5?	OAK
838	10?	OAK
839	6?	OAK
840	6?	OAK
841	6?	OAK
842	6?	OAK
843	10?	PINE
844	5?	OAK
845	5?	OAK
846	5?	OAK
847	6?	OAK
848	9?14?	LAUREL
849	7?	LAUREL
851	18?	OAK
852	18?	OAK
853	6?	OAK
854	6?	OAK
855	6?	OAK
856	8?	LAUREL
857	11?	OAK
858	5?	LAUREL
859	10?	OAK
860	6?	OAK
861	6?	OAK
862	9?	OAK
864	7?	OAK
865	7?	OAK
866	5?	OAK
867	5?	OAK
868	7?	OAK
869	9?	OAK
870	8?	OAK
871	6?	OAK
872	9?	OAK
873	9?	PINE
874	7?	OAK
875	7?	OAK
876	7?	OAK
877	12?	PINE
878	8?	OAK
879	7?	OAK
880	7?	OAK
881	8?	LAUREL
882	15?	PINE
883	7?	OAK
884	10?	OAK
885	7?	OAK
886	8?	OAK
887	6?	OAK
888	8?	OAK
889	8?	OAK
890	5?	LAUREL
891	5?	LAUREL
892	8?	OAK
893	8?	OAK
894	6?	LAUREL
895	10?	PINE

TREE NO.	DBH	SPECIES
896	10?	PINE
897	9?	OAK
898	8?	LAUREL
899	16?	OAK
900	8?	PINE
901	10?	PINE
902	7?	OAK
903	5?	OAK
904	5?	LAUREL
905	6?	OAK
906	8?	PINE
907	5?	OAK
908	13?	OAK
909	10?	OAK
910	6?	LAUREL
911	6?	OAK
912	6?	OAK
913	7?5?	OAK
914	6?	LAUREL
915	5?	OAK
916	5?	OAK
917	5?	OAK
918	5?	OAK
919	7?	OAK
920	7?	OAK
921	5?	OAK
922	5?	OAK
923	6?	OAK
924	6?	OAK
925	6?	LAUREL
926	6?	OAK
927	8?	OAK
928	7?	OAK
929	5?	OAK
930	7?	OAK
931	5?	OAK
932	5?	OAK
933	7?	OAK
934	10?	PINE
935	5?	OAK
936	6?	OAK
937	6?	OAK
938	5?	OAK
939	7?	OAK
940	7?	OAK
941	12?	OAK
942	6?	OAK
943	6?	OAK
944	10?	PALM
945	11?	LAUREL
946	8?	OAK
947	10?	OAK
948	9?	OAK
949	9?	OAK
950	5?	OAK
951	7?	OAK
952	7?	OAK
953	9?	OAK
954	9?	OAK
955	7?5?	OAK
956	10?	LAUREL
957	16?	PALM
958	6?	OAK
959	6?	OAK
960	8?	PINE
961	8?	PINE
962	8?7?	OAK
963	9?	OAK
964	5?	LAUREL
965	5?	LAUREL
966	7?	OAK
967	8?	LAUREL
969	6?	OAK
970	6?	OAK
971	6?	OAK
972	6?	OAK
973	5?	LAUREL
974	8?	LAUREL
975	7?	OAK
976	7?	LAUREL
977	5?	OAK
978	6?	LAUREL
979	7?	OAK
980	14?	PALM
981	9?	PALM
982	5?	OAK
983	5?	OAK
984	5?	OAK
985	5?	OAK
986	7?	OAK
987	18?	PALM
988	15?	PALM
989	15?	PALM
990	6?7?	LAUREL
991	8?	OAK
992	7?	LAUREL
993	7?	OAK
994	5?	OAK
995	5?	OAK
996	13?	OAK
997	5?	LAUREL
998	5?	OAK
999	5?	OAK
1000	7?	OAK
1001	10?	OAK
1002	7?	OAK
1003	16?	LAUREL
1004	5?	OAK
1005	13?	LAUREL
1006	10?	LAUREL
1007	16?	OAK
1008	6?	LAUREL
1010	20?	EAR POD
1011	7?	LAUREL
1012	5?	OAK
1013	12?	OAK
1014	8?	OAK
1015	11?	OAK
1017	5?	OAK
1019	7/5"	CAMPHOR
1020	5/5"	MYRTLE
1021	5"	MYRTLE
1022	5"	OAK
1023	11"8"10"	LAUREL
1024	10"	OAK
1025	8"	LAUREL
1026	8"	LAUREL
1027	5"	LAUREL

TREE NO.	DBH	SPECIES
1028	12"7"	LAUREL
1029	13"	LAUREL
1030	5"	OAK
1031	8"7"	LAUREL
1032	16"	OAK
1033	6"	LAUREL
1034	10"	LAUREL
1035	8"	LAUREL
1036	6"	LAUREL
1037	9"	OAK
1039	12"	LAUREL
1040	16"	LAUREL
1041	11"	LAUREL
1042	13"	LAUREL
1043	6"	OAK
TREE NO.	DBH	SPECIES

NICHOLAS F. CLARK
REGISTERED LANDSCAPE ARCHITECT

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NEW SMYRNA BEACH, FL 32168
WWW.IVYLEAGUELA.COM
LC26000349

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IVY LEAGUE
LANDSCAPE ARCHITECTS INC
Dream Design Build Maintain

#	DATE	REVISIONS	BY
1.	10/19/22	REVISED PER SITE PLAN CHANGES & COUNTY COMMENTS	NC/DS
2.	04/21/23	REVISED PER SITE PLAN CHANGES & COUNTY COMMENTS	NC/DS
3.	10/09/23	REVISED PER SITE PLAN CHANGES & COUNTY COMMENTS	NC/DS
4.	02/21/24	REVISED PER SITE PLAN CHANGES & COUNTY COMMENTS	NC/DS

VILLA RICHEY

4210 MADISON STREET
PASCO COUNTY, FLORIDA

TREE PROTECTION PLAN AND DETAILS

PROJECT #:	4421060
ISSUE DATE:	03 / 04 / 2022
DESIGNED BY:	NFC / DS
DRAFTED BY:	NFC / DS
CHECKED BY:	NFC / DS
FILE NAME:	4421060LA

LA 6666933
NICHOLAS F. CLARK

Digitally signed by Nicholas F Clark
Date: 2024.02.21 13:35:41 -05'00'

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY NICHOLAS F. CLARK, RLA ON THE DATE ADJACENT TO THE SEAL.

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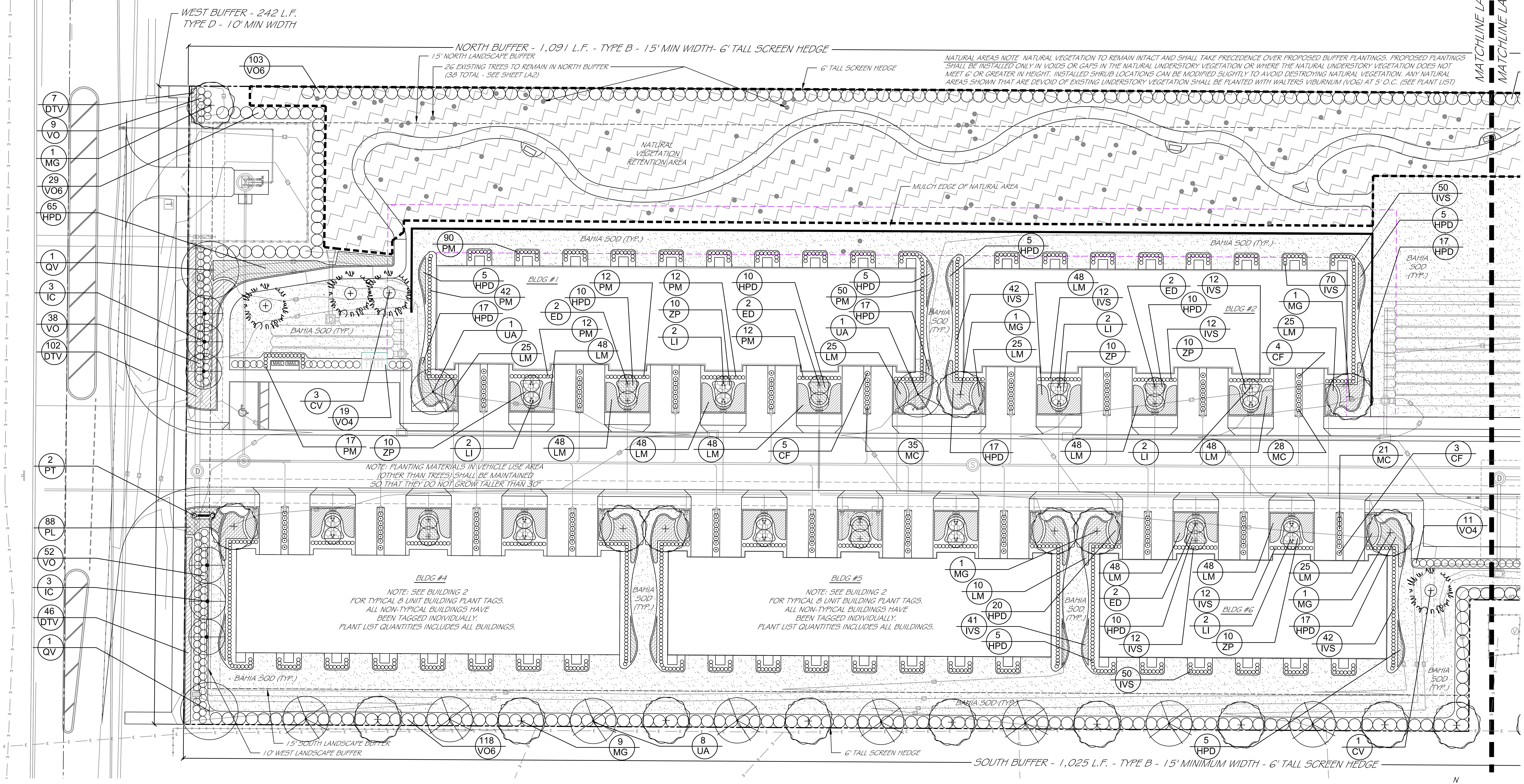
PASCO COUNTY, FLORIDA AUTHORIZED RESSUB-2023-00081 5/10/2024
These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.

SHEET: TP3 of 3



NATURAL AREAS NOTE NATURAL VEGETATION TO REMAIN INTACT AND SHALL TAKE PRECEDENCE OVER PROPOSED BUFFER PLANTINGS. PROPOSED PLANTINGS SHALL BE INSTALLED ONLY IN VOIDS OR GAPS IN THE NATURAL UNDERSTORY VEGETATION OR WHERE THE NATURAL UNDERSTORY VEGETATION DOES NOT MEET 6' OR GREATER IN HEIGHT. INSTALLED SHRUB LOCATIONS CAN BE MODIFIED SLIGHTLY TO AVOID DESTROYING NATURAL VEGETATION. ANY NATURAL AREAS SHOWN THAT ARE DEVOID OF EXISTING UNDERSTORY VEGETATION SHALL BE PLANTED WITH WALTERS VIBURNUM (VO6) AT 5' O.C. (SEE PLANT LIST)

NOTE: PLANTING MATERIALS IN VEHICLE USE AREA (OTHER THAN TREES) SHALL BE MAINTAINED SO THAT THEY DO NOT GROW TALLER THAN 30"

NOTE: SEE BUILDING 2 FOR TYPICAL 8 UNIT BUILDING PLANT TAGS. ALL NON-TYPICAL BUILDINGS HAVE BEEN TAGGED INDIVIDUALLY. PLANT LIST QUANTITIES INCLUDES ALL BUILDINGS.

NOTE: SEE BUILDING 2 FOR TYPICAL 8 UNIT BUILDING PLANT TAGS. ALL NON-TYPICAL BUILDINGS HAVE BEEN TAGGED INDIVIDUALLY. PLANT LIST QUANTITIES INCLUDES ALL BUILDINGS.

PROPOSED PLANT LIST

SYM.	QTY.	SPECIES	COMMON NAME	SPECIFICATIONS	DROUGHT TOLERANT (D)	NATIVE (N)	% OF TC SHRUE
TREES							
CV	10	CALLISTEMON VIMINALIS	WEEPING BOTTLEBRUSH	30 GAL., M.T., 3 TRUNKS, 3" CAL., 8' HT.	(D)		
ED	24	ELAEOCARPUS DECIPIENS	JAPANESE BLUEBERRY TREE	30 GAL., 2" CAL., 8 HT., STD., 3' C.T.	(D)		
IC	6	ILEX CASSINE	DAHOON HOLLY	30 GAL., M.T., 3 TRUNKS, 3" CAL., 8' HT.	(D)	(N)	
LI	32	LAGERSTROEMIA INDICA	CRAPE MYRTLE	30 GAL., 2" CAL., 8' HT., STD., 4' C.T.	(D)		
MG	28	MAGNOLIA GRANDIFLORA	SOUTHERN MAGNOLIA	30 GAL., 2" CAL., 8' HT.		(N)	
QV	22	QUERCUS VIRGINIANA	LIVE OAK	30 GAL., 2" CAL., 8' HT.	(D)	(N)	
TD	3	TAXODIUM DISTICHUM	BALD CYPRESS	30 GAL., 2" CAL., 8' HT.	(D)	(N)	
UA	24	ULMUS AMERICANA	AMERICAN ELM	30 GAL., 2" CAL., 8' HT.	(D)	(N)	
SHRUBS							
CF	36	CORDYLINE FRUITICOSA	HAWAIIAN TI	3 GAL, 18" HT., 3 P.P.P., FULL	(D)		1%
HPD	582	HAMELIA PATENS 'COMPACTA'	DWARF FIREBUSH	3 GAL., 18" HT X 15" SPRD., 30" O.C.	(D)	(N)	16%
IVS	846	ILEX VOMITORIA 'SCHILLINGS DWARF'	SCHILLINGS DWARF HOLLY	3 GAL., 18" HT. X 12" SPRD., FULL, 30" OC.	(D)	(N)	24%
MC	314	MUHLENBERGIA CAPILLARIS	MUHLY GRASS	3 GAL., 18" HT. X 10" SPRD., 30" O.C.	(D)	(N)	9%
PM	886	PODOCARPUS MACROPHYLLA	PODOCARPUS	3 GAL., 18" HT. X 10" SPRD., 18" O.C.	(D)		24%
PT	2	PODOCARPUS MACROPHYLLA	PODOCARPUS TOPIARY - CONE	15 GAL., 3' HT. X 14" SPRD., SPECIMEN	(D)		1%
TF	75	TRIPSACUM FLORIDANUM	FAKAHATCHEE GRASS 'DWARF'	3 GAL., 18" HT., 12" SPRD., 30" O.C.	(D)	(N)	2%
VO	99	VIBURNUM OBOVATUM	WALTER'S VIBURNUM	7 GAL., 3' HT. X 2 SPRD., FULL, 36" O.C.	(D)	(N)	3%
VO4	67	VIBURNUM OBOVATUM	WALTER'S VIBURNUM	15 GAL., 4' HT. X 3' SPRD., FULL, 36" O.C.	(D)	(N)	2%
VO6	520	VIBURNUM OBOVATUM	WALTER'S VIBURNUM	30 GAL., 6' HT. X 4' SPRD., FULL, 5' O.C.	(D)	(N)	14%
ZP	160	ZAMIA PUMILA	COONTIE	3 GAL., 18" HT. X 18" SPRD., FULL, 30" O.C.	(D)		4%
GROUNDCOVERS							
DTV	155	DIANELLA TASMANICA 'VARIEGATA'	VARUEGATED FLAX LILY	1 GAL., 12" HT. x 12" SPRD., 24" O.C.	(D)		
LM	1753	LIRIOPE MUSCARI	EVERGREEN GIANT	1 GAL., 10" HT. X 10" SPRD., FULL, 18" O.C.	(D)		

LANDSCAPE BUFFERS

		REQUIRED	PROVIDED
NORTH	(1091 L.F.) TYPE B		
	MINIMUM WIDTH	15'	15'
	1 TREE PER 30'	19	19*
	6' TALL SCREEN - HEDGE (MAX 5' O.C.)	YES	YES
SOUTH	(1,025 L.F.) TYPE B		
	MINIMUM WIDTH	15'	15'
	1 TREE PER 30'	18	18
	6' TALL SCREEN - HEDGE (MAX 5' O.C.)	YES	YES
EAST	(267 L.F.) TYPE B		
	MINIMUM WIDTH	15'	15'
	1 TREE PER 30'	5	5
	6' TALL SCREEN - HEDGE (MAX 5' O.C.)	YES	YES
WEST	(267' - 25' DRIVE AISLE = 242 L.F.) TYPE D		
	MINIMUM WIDTH (<100' R.O.W. WIDTH)	10'	10'
	1 TREE PER 30'	9	9
	5 SHRUBS PER TREE	45	45
	3' HIGH SCREEN - DOUBLE ROW SHRUBS	YES	YES

*38 EXISTING TREES TO REMAIN IN NORTH BUFFER

BUILDING 1 LANDSCAPING

	REQUIRED	PROVIDED
10% OF G.F.A. TO BE LANDSCAPED (S.F.)	840 S.F.	≥ 840 S.F.
50% OF PERIMETER TO BE LANDSCAPED (L.F.)	244'	≥ 244'
MINIMUM WIDTH	5'	5'

BUILDING 2 LANDSCAPING

	REQUIRED	PROVIDED
10% OF G.F.A. TO BE LANDSCAPED (S.F.)	672 S.F.	≥ 672 S.F.
50% OF PERIMETER TO BE LANDSCAPED (L.F.)	204'	≥ 204'
MINIMUM WIDTH	5'	5'

BUILDING 4 LANDSCAPING

	REQUIRED	PROVIDED
10% OF G.F.A. TO BE LANDSCAPED (S.F.)	672 S.F.	≥ 672 S.F.
50% OF PERIMETER TO BE LANDSCAPED (L.F.)	204'	≥ 204'
MINIMUM WIDTH	5'	5'

BUILDING 5 LANDSCAPING

	REQUIRED	PROVIDED
10% OF G.F.A. TO BE LANDSCAPED (S.F.)	672 S.F.	≥ 672 S.F.
50% OF PERIMETER TO BE LANDSCAPED (L.F.)	204'	≥ 204'
MINIMUM WIDTH	5'	5'

BUILDING 6 LANDSCAPING

	REQUIRED	PROVIDED
10% OF G.F.A. TO BE LANDSCAPED (S.F.)	504 S.F.	≥ 504 S.F.
50% OF PERIMETER TO BE LANDSCAPED (L.F.)	157'	≥ 157'
MINIMUM WIDTH	5'	5'

VUA LANDSCAPING

(VUA AREA = 38,093 SF)	REQUIRED	PROVIDED
10% OF VUA TO BE LANDSCAPED	3,809 S.F.	≥3,809 S.F.
1 SHADE TREE PER 200 SF OF REQUIRED VUA	20	≥ 20

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0 10 20 30 40
IVY LEAGUE LANDSCAPE ARCHITECTS, INC. ©
SCALE : 1" = 20'
(AT 24" x 36" PRINT)

NATIVE SHRUB & GROUNDCOVER REQUIREMENT

TOTAL 5,583 SHRUBS & GROUNDCOVERS	REQUIRED	PROVIDED
30% OF SHRUBS & GROUNDCOVERS REQUIRED TO BE NATIVE	1,675 (30%)	1,755 (31%)

DROUGHT TOLERANT SHRUB & GROUNDCOVER REQUIREMENT

TOTAL 5,583 SHRUBS & GROUNDCOVERS	REQUIRED	PROVIDED
50% OF SHRUBS & GROUNDCOVERS REQUIRED TO BE DROUGHT TOLERANT	2,792 (50%)	5,583 (100%)

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REGISTERED LANDSCAPE ARCHITECT
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LC26000349
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IVY LEAGUE LANDSCAPE ARCHITECTS INC
Dream ✤ Design ✤ Build ✤ Maintain

#	DATE	REVISIONS	BY
1.	10/19/22	REVISED PER SITE PLAN CHANGES & COUNTY COMMENTS	NC/DS
2.	04/21/23	REVISED PER SITE PLAN CHANGES & COUNTY COMMENTS	NC/DS
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4.	02/21/24	REVISED PER SITE PLAN CHANGES & COUNTY COMMENTS	NC/DS

VILLA RICHEY
4210 MADISON STREET
PASCO COUNTY, FLORIDA

LANDSCAPE PLAN AND DETAILS

PROJECT #:	4421060
ISSUE DATE:	03/04/2022
DESIGNED BY:	NFC/DS
DRAFTED BY:	NFC/DS
CHECKED BY:	NFC/DS
FILE NAME:	4421060LA

LA 6666933

Digitally signed by Nicholas F Clark
Date: 2024.02.21 13:27:29 -05'00'

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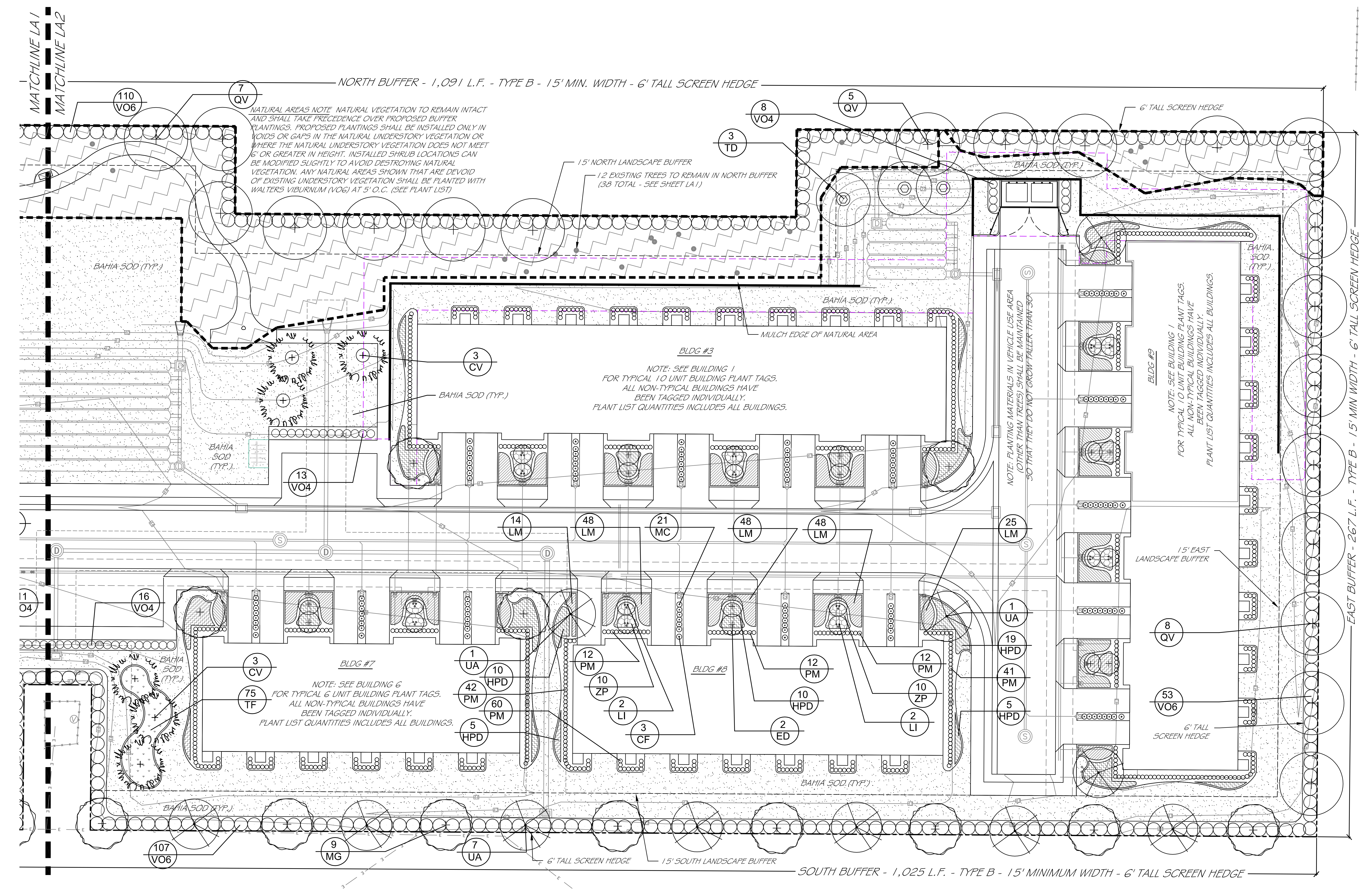
SHEET: LA1 of 2


MATCHLINE LA1
MATCHLINE LA2
NORTH BUFFER - 1,091 L.F. - TYPE B - 15' MIN. WIDTH - 6' TALL SCREEN HEDGE
110 VO6
7 QV
8 VO4
5 QV
3 TD
NATURAL AREAS NOTE NATURAL VEGETATION TO REMAIN INTACT AND SHALL TAKE PRECEDENCE OVER PROPOSED BUFFER PLANTINGS. PROPOSED PLANTINGS SHALL BE INSTALLED ONLY IN VOIDS OR GAPS IN THE NATURAL UNDERSTORY VEGETATION OR WHERE THE NATURAL UNDERSTORY VEGETATION DOES NOT MEET 6' OR GREATER IN HEIGHT. INSTALLED SHRUB LOCATIONS CAN BE MODIFIED SLIGHTLY TO AVOID DESTROYING NATURAL VEGETATION. ANY NATURAL AREAS SHOWN THAT ARE DEVOID OF EXISTING UNDERSTORY VEGETATION SHALL BE PLANTED WITH WALTERS VIBURNUM (VO6) AT 5' O.C. (SEE PLANT LIST)
15' NORTH LANDSCAPE BUFFER
12 EXISTING TREES TO REMAIN IN NORTH BUFFER (38 TOTAL - SEE SHEET LA1)
6' TALL SCREEN HEDGE
BAHIA SOD (TYP.)
MULCH EDGE OF NATURAL AREA
3 CV
BLDG #3
NOTE: SEE BUILDING 1 FOR TYPICAL 10 UNIT BUILDING PLANT TAGS. ALL NON-TYPICAL BUILDINGS HAVE BEEN TAGGED INDIVIDUALLY. PLANT LIST QUANTITIES INCLUDES ALL BUILDINGS.
BAHIA SOD (TYP.)
13 VO4
NOTE: PLANTING MATERIALS IN VEHICLE USE AREA (OTHER THAN TREES) SHALL BE MAINTAINED SO THAT THEY DO NOT GROW TALLER THAN 30"
BLDG #9
NOTE: SEE BUILDING 1 FOR TYPICAL 10 UNIT BUILDING PLANT TAGS. ALL NON-TYPICAL BUILDINGS HAVE BEEN TAGGED INDIVIDUALLY. PLANT LIST QUANTITIES INCLUDES ALL BUILDINGS.
EAST BUFFER - 267 L.F. - TYPE B - 15' MIN WIDTH - 6' TALL SCREEN HEDGE
14 LM
48 LM
21 MC
48 LM
48 LM
25 LM
15' EAST LANDSCAPE BUFFER
11 VO4
16 VO4
1 UA
19 HPD
41 PM
5 HPD
8 QV
53 VO6
6' TALL SCREEN HEDGE
3 CV
75 TF
BLDG #7
NOTE: SEE BUILDING 6 FOR TYPICAL 6 UNIT BUILDING PLANT TAGS. ALL NON-TYPICAL BUILDINGS HAVE BEEN TAGGED INDIVIDUALLY. PLANT LIST QUANTITIES INCLUDES ALL BUILDINGS.
1 UA
10 HPD
42 PM
60 PM
5 HPD
12 PM
10 ZP
2 LI
3 CF
BLDG #8
12 PM
10 HPD
2 ED
12 PM
10 ZP
2 LI
BAHIA SOD (TYP.)
107 VO6
9 MG
7 UA
6' TALL SCREEN HEDGE
15' SOUTH LANDSCAPE BUFFER
SOUTH BUFFER - 1,025 L.F. - TYPE B - 15' MINIMUM WIDTH - 6' TALL SCREEN HEDGE

LANDSCAPE NOTES AND SPECIFICATIONS

1. FLORIDA #1: ALL PLANT MATERIAL SHALL BE GRADE FLORIDA NO. 1 OR BETTER IN QUALITY AS DESIGNATED IN THE MOST RECENT PUBLICATION OF "GRADES AND STANDARDS FOR NURSERY PLANTS", PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES.

2. EXISTING PLANTS: IF EXISTING PLANTS WITHIN NATURAL VEGETATION AREAS ARE IN HEALTHY CONDITION AND CAN ACHIEVE A 6' HIGH NATURAL VEGETATION SCREEN, THEN EXISTING PLANTS MAY BE PRESERVED AND UTILIZED IN THE LANDSCAPE BUFFERS INSTEAD OF REMOVING AND PLANTING PROPOSED SCREENING PLANTINGS.

3. MULCH: ALL PLANTING BEDS SHALL BE TOP DRESSED WITH 3" DARK BROWN SHREDDED MULCH OR PINE BARK MULCH, FINAL SELECTION BY OWNER, GRADE "B" OR BETTER. ALL TREES NOT IN BEDS SHALL HAVE A 5' DIAMETER MULCH RING.

4. SOD: SOD SHALL BE ARGENTINE BAHIA UNLESS OTHERWISE SPECIFIED ON THE PLANS. ALL SOD SHALL BE ROLLED.

5. QUANTITIES: IN THE EVENT OF A VARIATION BETWEEN THE QUANTITIES SHOWN ON THE PLANT LISTS AND THE ACTUAL QUANTITY OF PLANTS SHOWN ON THE PLANS, THE PLANS SHALL CONTROL. SOD QUANTITY TAKEOFFS ARE THE RESPONSIBILITY OF THE CONTRACTOR.

6. UNFORESEEN CONFLICTS: CONTRACTOR SHALL NOT WILLFULLY INSTALL ANY PORTION OF THE LANDSCAPE PLAN AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT UNFORESEEN OBSTRUCTIONS, GRADE DIFFERENCES, STANDING WATER, SOIL CONDITIONS OR OTHER CONFLICTS EXIST. SUCH UNFORESEEN CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE AND THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

7. SUBSTITUTIONS: NO SUBSTITUTIONS OR VARIATIONS OF ANY PLANT MATERIAL OR ITS INSTALLED LOCATION WILL BE PERMITTED WITHOUT THE PRIOR WRITTEN CONSENT AND APPROVAL FROM THE LANDSCAPE ARCHITECT.

8. CONTAINERS: IF GALLONAGE FOR PLANTS OR TREES IS SHOWN THEY SHALL BE CONTAINER GROWN AND THE SIZE SHOWN SHALL REPRESENT THE MINIMUM ALLOWABLE GALLONAGE ACCEPTED. IN ALL CASES THE PLANT SPECIFIED SIZE SHALL GOVERN OVER THE GALLONAGE INDICATED.

9. SOIL: CONTRACTOR SHALL VERIFY THAT SOIL CONDITIONS ARE SUITABLE TO THE PLANT SPECIES SPECIFIED. IF SOIL CONDITIONS ARE DEEMED UNSUITABLE FOR PROPER PLANT HEALTH, CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT AND PROPER SUBSTITUTIONS SHALL BE MADE BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. ADDITIONALLY, IF PRESENT, THE CONTRACTOR SHALL REMOVE LIME ROCK, CONCRETE AND OTHER DELETERIOUS DEBRIS FROM PLANTING BEDS. IF DEBRIS IS INTEGRATED IN THE SOIL, THE SOIL MUST BE EXCAVATED AND REPLACED WITH ACCEPTABLE SOIL. LASTLY, ALL FILL TO BE PLACED IN LANDSCAPE AREAS MUST HAVE A pH RANGE BETWEEN 5.8 AND 7.5, BE ORGANIC IN NATURE, AND BE FREE OF ROCKS AND DEBRIS.

10. TOPSOIL: TOPSOIL MATERIAL, IF REQUIRED, SHALL BE FREE FROM ALL HARD CLODS, WEEDS, STONES OVER 1" IN DIAMETER, CLAY, HARD PAN, NOXIOUS PLANTS, SOD, INSECTS, OR OTHER UNDESIRABLE PLANTS, SEEDS, OR MATERIAL WHICH MAY BE HARMFUL FOR GROWTH AND SHALL BE CERTIFIED AS STERILE.

11. WEEDS: IF PRESENT, THE CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE ANY WEEDS FROM PLANTING AREAS PRIOR TO THE INSTALLATION OF PROPOSED PLANT MATERIAL AND MULCH COVER. CONTRACTOR SHALL BE RESPONSIBLE TO KEEP BEDS FREE OF WEEDS FOR THE DURATION OF THE 90 DAY MAINTENANCE PERIOD.

12. GRADING: UNLESS OTHERWISE STATED ON THESE PLANS, THE LANDSCAPE CONTRACTOR SHALL FINE GRADE ALL AREAS TO BE PLANTED AND SODDED IN ORDER TO ELIMINATE BUMPS AND DEPRESSIONS. FINE GRADING SHALL BE DEFINED AS THE FINAL 2" OF GRADE TO BE ACHIEVED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND REGRADING WASHOUT AREAS CAUSED BY EROSION UNTIL FINAL ACCEPTANCE OF THE PROJECT.

13. STAKING: ALL TREES, SHRUBS AND GROUND COVERS ARE TO BE PLANTED ACCORDING TO THE DETAILS IN THESE PLANS. IF THE CONTRACTOR PREFERS TO USE OTHER STAKING METHODS THAN SHOWN IN THE DETAILS, HE OR SHE MUST SUBMIT PROPOSED STAKING DETAILS TO THE LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION. THE LANDSCAPE CONTRACTOR SHALL STRAIGHTEN, REPAIR, AND/OR REPLACE ANY PLANTS DAMAGED BY FAILURE TO PROPERLY STAKE OR GUY ANY TREES IN SITE, AT THEIR OWN EXPENSE.

14. CURVILINEAR: CURVILINEAR LANDSCAPED BEDS ARE TO BE EDGED WITH SMOOTH FLOWING CURVES. STRAIGHT-LINE LANDSCAPE BEDS ARE TO BE EDGED IN A STRAIGHT LINE PARALLEL TO PARKING LOTS AND STRUCTURES UNLESS DESIGNED OTHERWISE.

15. FERTILIZER: OSMOCOTE SLOW RELEASE FERTILIZER OR EQUIVALENT SHALL BE APPLIED TO ALL TREE, SHRUB, AND GROUNDCOVER PLANTING AREAS AT THE RATE OF THREE (3) TABLESPOONS PER 2 S.F. OF PLANTING AREA.

16. DRAINAGE: THE LANDSCAPE CONTRACTOR SHALL ASSURE THAT THIS WORK DOES NOT INTERRUPT EXISTING OR PROPOSED DRAINAGE PATTERNS AND SHALL NOTIFY THE OWNERS REPRESENTATIVE IMMEDIATELY SHALL A CONFLICT ARISE.

17. SPECIFICATIONS: THE LANDSCAPE ARCHITECT SHALL BE PERMITTED THE RIGHT DURING INSTALLATION, TO REJECT ANY AND ALL PLANT MATERIAL AND WORKMANSHIP WHICH IN HIS OR HER OPINION DOES NOT MEET THE REQUIREMENTS OF THESE SPECIFICATIONS.

18. NATURAL AREAS: NATURAL VEGETATION PRESERVATION AREAS SHALL BE CLEANED UP INCLUDING BUT NOT LIMITED TO THE REMOVAL OF ANY DEBRIS OR WEEDS AND PRUNING OF DEAD OR YELLOW BRANCHES AND PALM FRONDS. MULCH EDGE OF NATURAL AREA 36" TO 5' FEET.

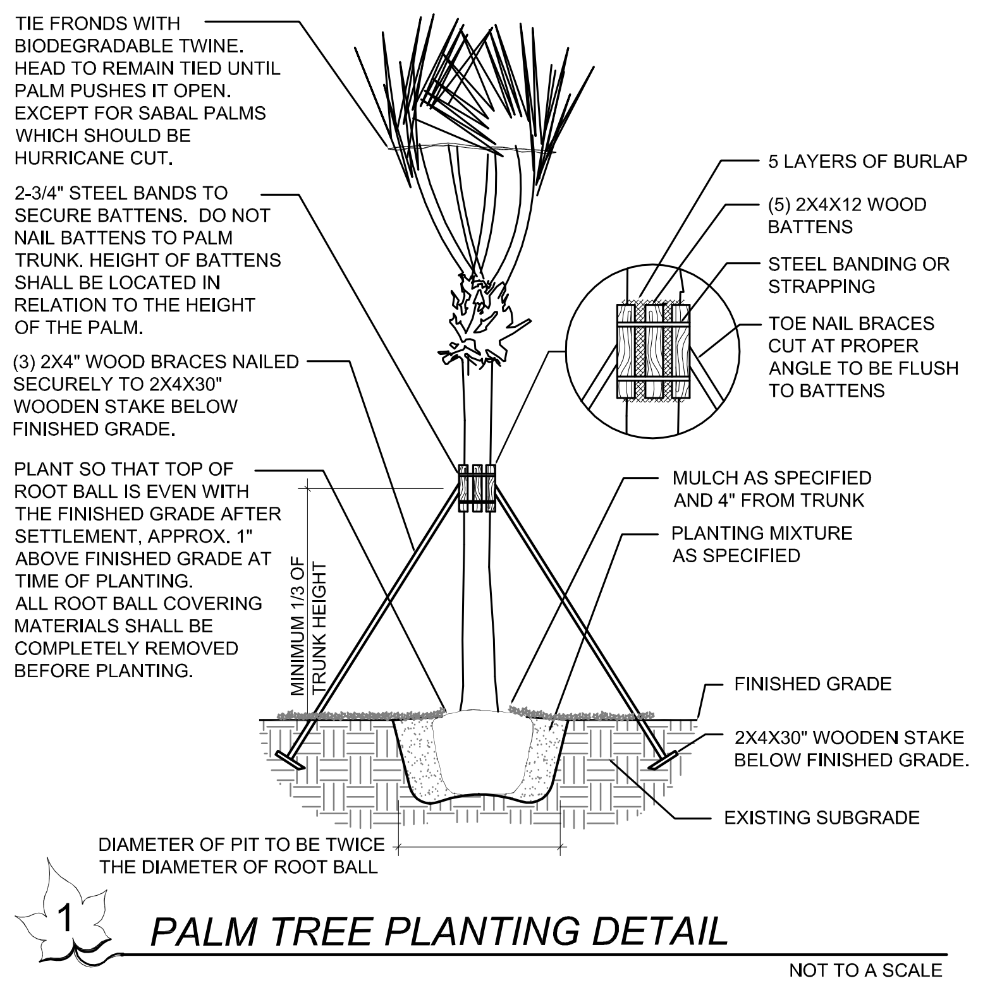
19. TURNOVER: CONTRACTOR SHALL CONTACT OWNERS REPRESENTATIVE FOR A TURNOVER DATE TO INCLUDE A WALK-THROUGH AND ACCEPTANCE OF WORK BY THE LANDSCAPE ARCHITECT. ANY WORK DEEMED UNACCEPTABLE SHALL BE CORRECTED IMMEDIATELY AND REINSPECTED AS SCHEDULED.

20. MAINTENANCE: CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE TO BEGIN AFTER EACH PLANT HAS BEEN INSTALLED AND SHALL CONTINUE 90 DAYS AFTER FINAL WRITTEN ACCEPTANCE BY THE OWNER. MAINTENANCE SHALL INCLUDE WATERING, PRUNING. WEEDING, MULCHING, MOWING, REPLACEMENT OF SICK OR DEAD PLANTS, AND ANY OTHER CARE NECESSARY IN ORDER TO MAINTAIN PROPER PLANT HEALTH AND SOIL MOISTURE CONTENT.

21. GUARANTEE: CONTRACTOR SHALL GUARANTEE ALL INSTALLED PLANT MATERIAL FOR ONE (1) CALENDAR YEAR STARTING FROM THE TURNOVER DATE SHOULD WORK BE FOUND ACCEPTABLE. ANY CORRECTED WORK SHALL HAVE A PROPORTIONAL EXTENSION OF WARRANTY ONCE APPROVED. ANY SICK OR DEAD MATERIAL SHALL BE REPLACED IMMEDIATELY. THE LANDSCAPE CONTRACTOR SHALL NOT BE RESPONSIBLE TO HONOR ANY WARRANTY FOR THE LOSS OF ANY PLANT MATERIAL CAUSED BY FLOODING, FIRE, FREEZING TEMPERATURES, WINDS OVER 50 MPH, LIGHTNING, ANY OTHER NATURAL DISASTER, OR ANY LOSS/DAMAGE CAUSED BY VANDALISM OR NEGLIGENCE ON THE PART OF THE OWNER.

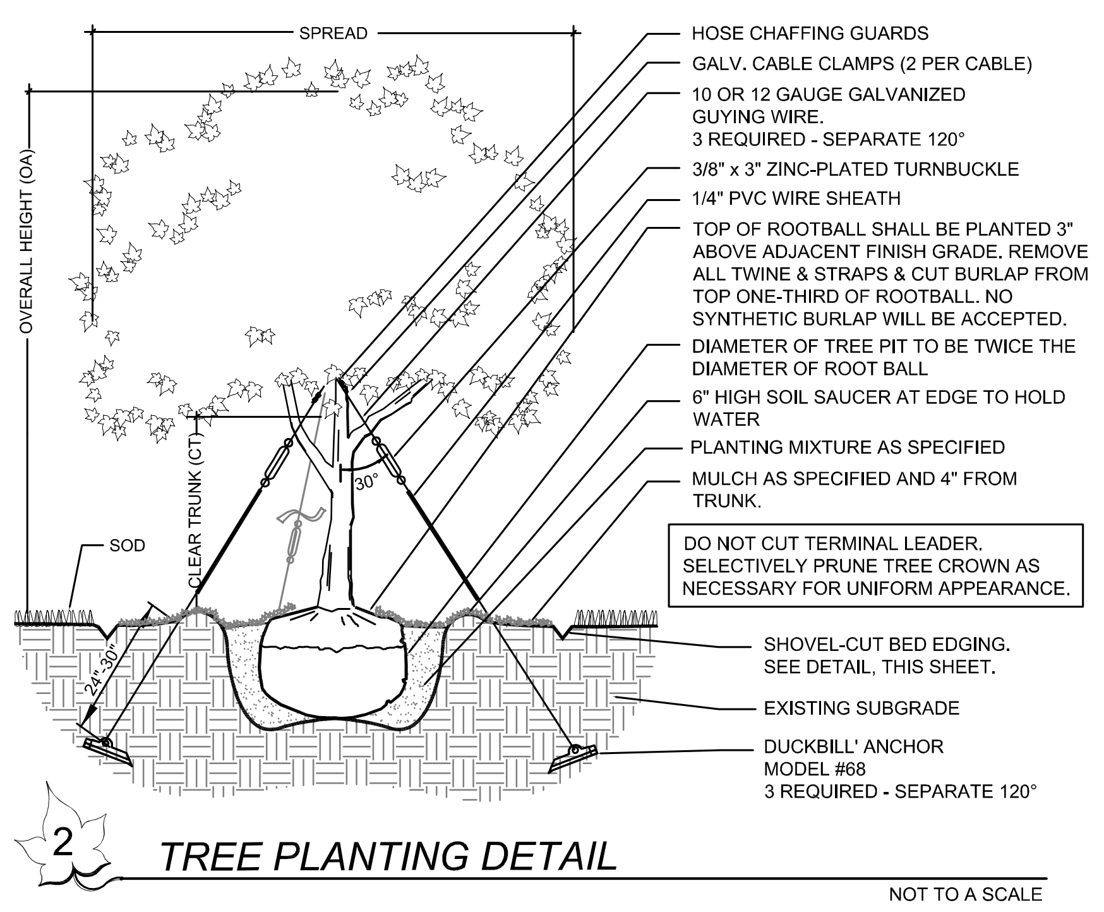
IRRIGATION NOTES

1. AN AUTOMATIC TIME CONTROLLED IRRIGATION SYSTEM WITH A RAIN SENSOR SHALL BE INSTALLED TO PROVIDE 100% HEAD TO HEAD COVERAGE OF ALL NEW PLANTINGS.


TIE FRONDS WITH BIODEGRADABLE TWINE. HEAD TO REMAIN TIED UNTIL PALM PUSHES IT OPEN. EXCEPT FOR SABAL PALMS WHICH SHOULD BE HURRICANE CUT.
2-3/4" STEEL BANDS TO SECURE BATTENS. DO NOT NAIL BATTENS TO PALM TRUNK. HEIGHT OF BATTENS SHALL BE LOCATED IN RELATION TO THE HEIGHT OF THE PALM.
(3) 2X4" WOOD BRACES NAILED SECURELY TO 2X4X30" WOODEN STAKE BELOW FINISHED GRADE.
PLANT SO THAT TOP OF ROOT BALL IS EVEN WITH THE FINISHED GRADE AFTER SETTLEMENT, APPROX. 1" ABOVE FINISHED GRADE AT TIME OF PLANTING. ALL ROOT BALL COVERING MATERIALS SHALL BE COMPLETELY REMOVED BEFORE PLANTING.
MINIMUM 1/3 OF TRUNK HEIGHT
5 LAYERS OF BURLAP
(5) 2X4X12 WOOD BATTENS
STEEL BANDING OR STRAPPING
TOE NAIL BRACES CUT AT PROPER ANGLE TO BE FLUSH TO BATTENS
MULCH AS SPECIFIED AND 4" FROM TRUNK
PLANTING MIXTURE AS SPECIFIED
FINISHED GRADE
2X4X30" WOODEN STAKE BELOW FINISHED GRADE.
EXISTING SUBGRADE
DIAMETER OF PIT TO BE TWICE THE DIAMETER OF ROOT BALL

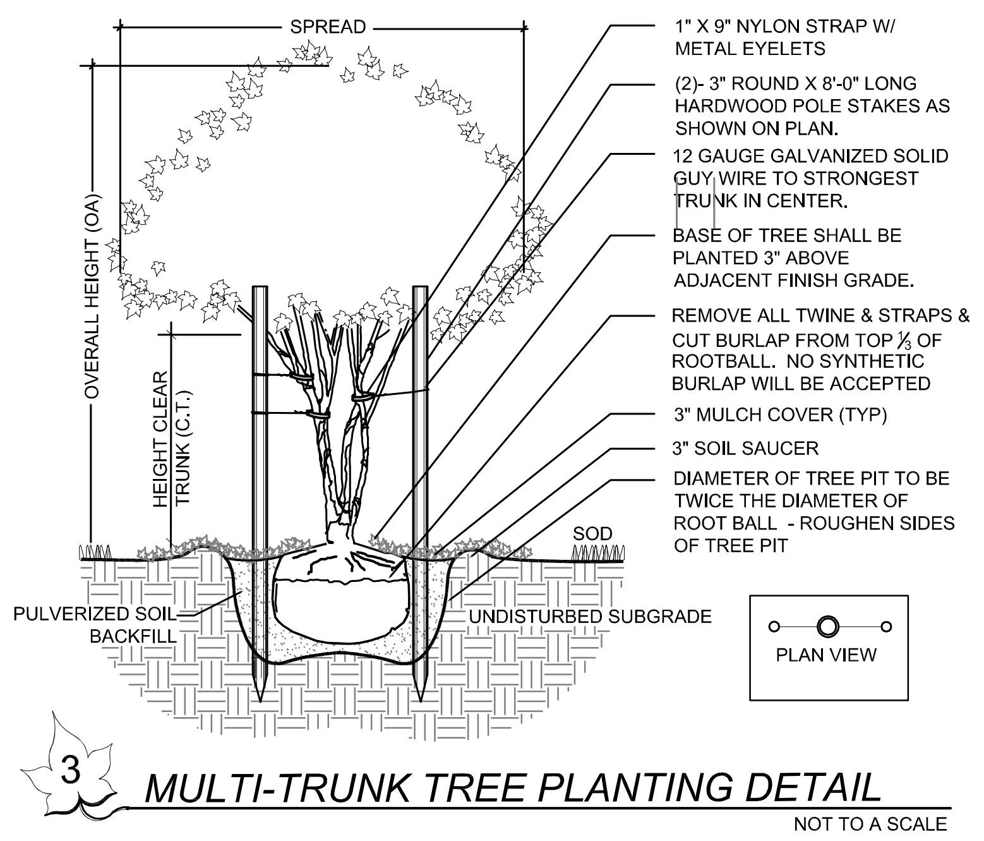
1 PALM TREE PLANTING DETAIL

NOT TO A SCALE


SPREAD
OVERALL HEIGHT (OA)
CLEAR TRUNK (CT)
SOD
24"-30"
30°
HOSE CHAFFING GUARDS
GALV. CABLE CLAMPS (2 PER CABLE)
10 OR 12 GAUGE GALVANIZED GUYING WIRE. 3 REQUIRED - SEPARATE 120°
3/8" x 3" ZINC-PLATED TURNBUCKLE
1/4" PVC WIRE SHEATH
TOP OF ROOTBALL SHALL BE PLANTED 3" ABOVE ADJACENT FINISH GRADE. REMOVE ALL TWINE & STRAPS & CUT BURLAP FROM TOP ONE-THIRD OF ROOTBALL. NO SYNTHETIC BURLAP WILL BE ACCEPTED.
DIAMETER OF TREE PIT TO BE TWICE THE DIAMETER OF ROOT BALL
6" HIGH SOIL SAUCER AT EDGE TO HOLD WATER
PLANTING MIXTURE AS SPECIFIED
MULCH AS SPECIFIED AND 4" FROM TRUNK.
DO NOT CUT TERMINAL LEADER. SELECTIVELY PRUNE TREE CROWN AS NECESSARY FOR UNIFORM APPEARANCE.
SHOVEL-CUT BED EDGING. SEE DETAIL, THIS SHEET.
EXISTING SUBGRADE
DUCKBILL' ANCHOR MODEL #68 3 REQUIRED - SEPARATE 120°

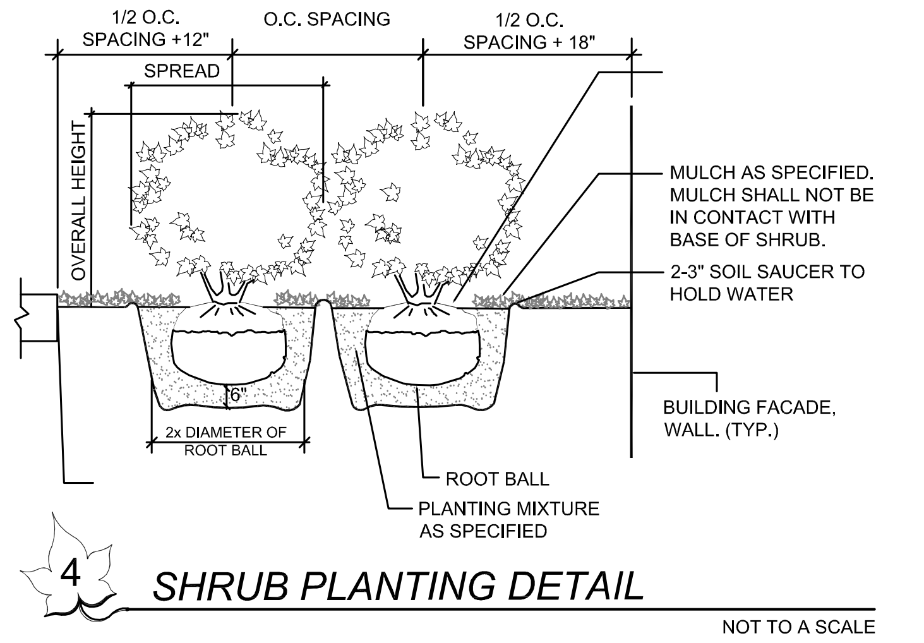
2 TREE PLANTING DETAIL

NOT TO A SCALE


SPREAD
OVERALL HEIGHT (OA)
HEIGHT CLEAR TRUNK (C.T.)
1" X 9" NYLON STRAP W/ METAL EYELETS
(2)- 3" ROUND X 8'-0" LONG HARDWOOD POLE STAKES AS SHOWN ON PLAN.
12 GAUGE GALVANIZED SOLID GUY WIRE TO STRONGEST TRUNK IN CENTER.
BASE OF TREE SHALL BE PLANTED 3" ABOVE ADJACENT FINISH GRADE.
REMOVE ALL TWINE & STRAPS & CUT BURLAP FROM TOP ⅓ OF ROOTBALL. NO SYNTHETIC BURLAP WILL BE ACCEPTED
3" MULCH COVER (TYP)
3" SOIL SAUCER
DIAMETER OF TREE PIT TO BE TWICE THE DIAMETER OF ROOT BALL - ROUGHEN SIDES OF TREE PIT
SOD
PULVERIZED SOIL BACKFILL
UNDISTURBED SUBGRADE
PLAN VIEW

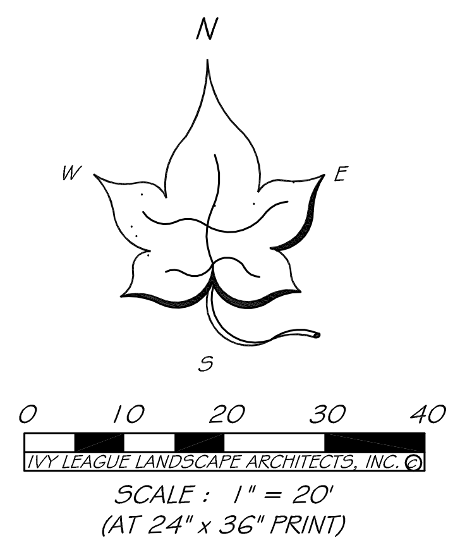
3 MULTI-TRUNK TREE PLANTING DETAIL

NOT TO A SCALE


1/2 O.C. SPACING +12"
O.C. SPACING
1/2 O.C. SPACING + 18"
SPREAD
OVERALL HEIGHT
6"
2x DIAMETER OF ROOT BALL
MULCH AS SPECIFIED. MULCH SHALL NOT BE IN CONTACT WITH BASE OF SHRUB.
2-3" SOIL SAUCER TO HOLD WATER
BUILDING FACADE, WALL. (TYP.)
ROOT BALL
PLANTING MIXTURE AS SPECIFIED

4 SHRUB PLANTING DETAIL

NOT TO A SCALE



SCALE : 1" = 20'
(AT 24" x 36" PRINT)

BUILDING 3 LANDSCAPING

	REQUIRED	PROVIDED
10% OF G.F.A. TO BE LANDSCAPED (S.F.)	840 S.F.	≥ 840 S.F.
50% OF PERIMETER TO BE LANDSCAPED (L.F.)	244'	≥ 244'
MINIMUM WIDTH	5'	5'

BUILDING 7 LANDSCAPING

	REQUIRED	PROVIDED
10% OF G.F.A. TO BE LANDSCAPED (S.F.)	504 S.F.	≥ 504 S.F.
50% OF PERIMETER TO BE LANDSCAPED (L.F.)	157'	≥ 157'
MINIMUM WIDTH	5'	5'

BUILDING 8 LANDSCAPING

	REQUIRED	PROVIDED
10% OF G.F.A. TO BE LANDSCAPED (S.F.)	588 S.F.	≥ 588 S.F.
50% OF PERIMETER TO BE LANDSCAPED (L.F.)	184'	≥ 184'
MINIMUM WIDTH	5'	5'

BUILDING 9 LANDSCAPING

	REQUIRED	PROVIDED
10% OF G.F.A. TO BE LANDSCAPED (S.F.)	840 S.F.	≥ 840 S.F.
50% OF PERIMETER TO BE LANDSCAPED (L.F.)	244'	≥ 244'
MINIMUM WIDTH	5'	5'

NICHOLAS F. CLARK
REGISTERED LANDSCAPE ARCHITECT
(386) 846-0901
4180 TREADWAY ROAD
NEW SMYRNA BEACH, FL 32168
WWW.IVYLEAGUELA.COM
LC26000349

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#	DATE	REVISIONS	BY
1.	10/19/22	REVISED PER SITE PLAN CHANGES & COUNTY COMMENTS	NC/DS
2.	04/21/23	REVISED PER SITE PLAN CHANGES & COUNTY COMMENTS	NC/DS
3.	10/09/23	REVISED PER SITE PLAN CHANGES & COUNTY COMMENTS	NC/DS
4.	02/21/24	REVISED PER SITE PLAN CHANGES & COUNTY COMMENTS	NC/DS

VILLA RICHEY
4210 MADISON STREET
PASCO COUNTY, FLORIDA

LANDSCAPE PLAN AND DETAILS

PROJECT #:	4421060
ISSUE DATE:	03/04/2022
DESIGNED BY:	NFC/DS
DRAFTED BY:	NFC/DS
CHECKED BY:	NFC/DS
FILE NAME:	4421060LA

Digitally signed by Nicholas F Clark
Date: 2024.02.21 13:27:58 -05'00'

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY NICHOLAS F. CLARK, RLA ON THE DATE ADJACENT TO THE SEAL.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED. SIGNATURE MUST BE VERIFIED ON ELECTRONIC COPIES.

SHEET: LA2 of 2